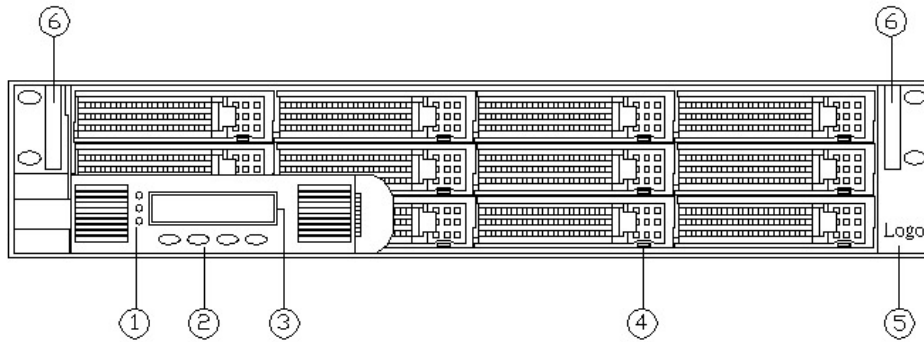


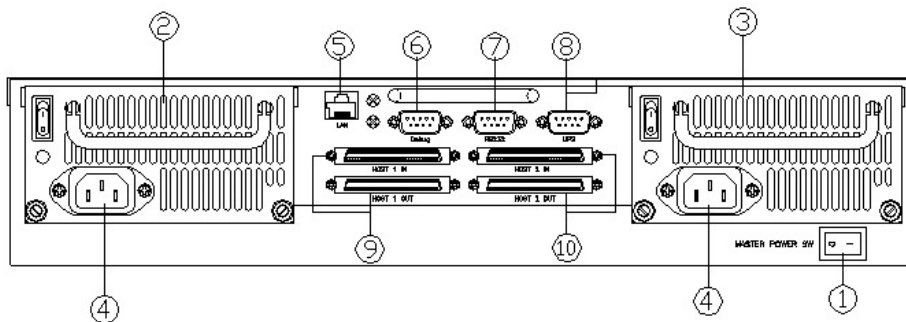
Welcome use **RAID** Subsystem

Front View



1. LED operation indicator (from top to the down)
Power on, Busy, Fault
2. HDD LED indicator
Power on (Green), Access (Orange), Drives failure (Red)
3. Control Button (for Controller): "Enter", "ESC", "UP", "DOWN"
4. 2X16 Line LCD Display Panel
5. LOGO
6. Handle

Back View



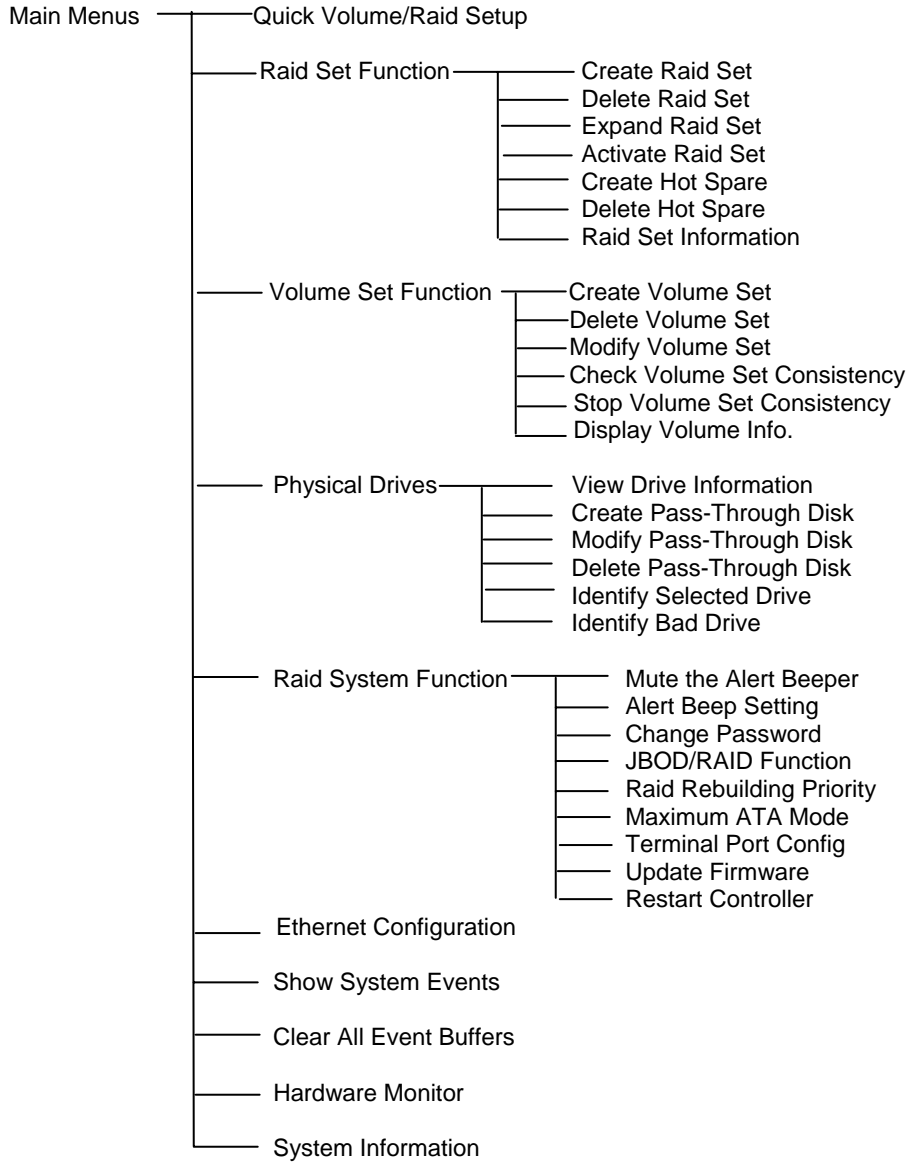
(SCSI Interface)

1. Power on Switch
2. Power 1 (110~260v AC Auto-Voltage Set) and Fan 1 (12x12 cm ball bearing)
3. Power 2 (110~260v AC Auto-Voltage Set) and Fan 2 (12x12 cm ball bearing)
4. AC Power Input Connector
5. 10/100 Ethernet RJ-45 Port (for Remote Control and E-mail alarm)
6. Debug Port
7. RS-232 Port (Hyper terminal Control Port)
8. UPS Port
9. Host -1 SCSI Channel adapter
10. Host -2 SCSI Channel adapter

Configuration Menu Tree:

The following is an expansion of the menus in configuration Utility that can be accessed through the LCD panel and RS-232 serial port.

Please note: The RAID subsystem controller default **Password is "0000"**.



LCD Configuration Utility Main Menu Options:

Select an option and the related information or submenu items display beneath it. The submenus for each item are explained on the section **4.7.3 of the Main Menu**. The configuration utility main menu options are:

Option	Description
Quick Volume And Raid Set Setup	Create a default configurations which are based on the number of physical disk installed
Raid Set Functions	Create a customized raid set
Volume Set Functions	Create a customized volume set
Physical Drive Functions	View individual disk information
Raid System Functions	Setting the raid system configurations
Views System Events	Record all system events in the buffer
Clear Event Buffer	Clear all event buffer information
Hardware Monitor	Show all system environment status
System Information	View the controller information

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Chapter 1:

1.1 Main Features:

- Support for RAID levels 0,1,0+, 3, 5, 6 and JBOD
- Host System independent
- Operation System independent
- High performance processor
- Support On-line expanding
- 1GB maximum cache memory with ECC protection
- Supports up to 16 logical units
- Support s SCSI Host Interconnect
- Supports Hot Swap, Hot Spare and Automatic or manual Rebuild
- Bad Sector reassignment
- Web browser-based RAID management via HTTP PROXY through Ethernet port
- RAID busy, Power supply, Temperature alarm and Fan fail LED indication

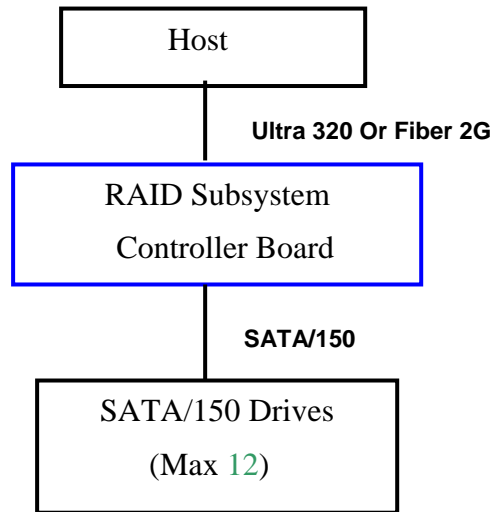
1.2 Specification:

- Intel IOP321 400MHz 64-bit RISC processor
- 1GB maximum cache memory size on one DDR200 SDRAM with ECC protection
- 12 Ultra ATA/133 IDE device channel, operating in parallel
- Areca proprietary ASIC with polynomial engine to support RAID 6 function
- 12 channels 64bit/66MHz IDE controller
- NVRAM for RAID configuration & transaction log
- Write-through or write-back cache support
- Firmware in Flash ROM for easy upgrades

1.3 Advantages:

- Unique 12 bay design (Less HDD required)
- System OS independent connectivity
- Maximum capacity up to 2TB currently
- Less down time
- More features than competitors
- Lower management cost:
 - Bootable CD VT-100 utility for X86-based system initialization
 - Field-upgradeable firmware in flash ROM via Ethernet or RS-232 port
 - Web browser-based RAID management via HTTP PROXY through Ethernet and RS-232 port (for windows & Linux system)
 - Firmware-embedded manager via Ethernet and RS-232 port (platform independent)

1.4 System Architecture:



- Intel IOP 80321 400MHz 64-bit RISC processor
- 1GB maximum cache memory with ECC protection
- 12 channels SATA controller (133MHz/64Bit)
- Areca proprietary ASIC with polynomial engine to support RAID 6 function
- NVRAM for RAID configuration & transaction log
- Write-through or write-back cache support
- Firmware in Flash ROM for easy upgrades

Disk Bus Interface

- Serial ATA/150 compatible
- 12 channels, operating in serial
- 12 hot-swap drive trays
- 48-bit LBA support allows disk exceeding 137GB
- Staggering the Spin-Up of individual Disk to solve the power-on surge

SCSI-RAID-SATA/IDE Host Bus Interface

- Ultra 320-Wide LVD SCSI; Transfer rate up to 320MB/sec
- Tagged Command Queuing
- Concurrent I/O commands

Chapter 2:

2.1 Package Checking

The RAID subsystem may have included the following items in the ship package:

- RAID subsystem
- SCSI cable to interconnect the RAID subsystem*2
- Hardware terminator (SCSI-to-SATA/IDE)*2
- User manual
- Serial communications null-modem cable (RS-232 cable)
- 36 screws

2.2 Password

The RAID subsystem controller default Password is "0000" on terminal mode.

The RAID subsystem controller default User Name is "admin" and the Password is "0000" on Web base mode.

2.3 Hardware Installation

Step 1 Configuring SATA Drives

Each SATA drive installing in the RAID subsystem which does not configured as a "master" or "slave" drive for your system.

Step 2 Loading Hard Disk to the Drive Tray

The RAID subsystem supports 12 Serial ATA/150 IDE channels. Each channel can run up to 150MB/S.

1. Gently take out the drive trays from the RAID subsystem by pulling out on the lever.
2. Remove the tray blank from hot-swap tray.
3. Attach the drive trays power cable to the disk drive first, and carefully push drive trays data cable to the disk drive. Those connectors are keyed and will only fit one way. Make sure the connectors are firmly seated; secure the drive to the hot-swap tray with #6X3 screws.
4. After all drives are in the drive tray, place all of them back into the RAID subsystem. Making sure lever is at 180-degree angle from the RAID subsystem. This is important so that it does not damage the hot-swap trays.
5. Make sure you let the lever engage by itself.
6. Give a final push of the drive tray to make sure it is seated firmly into the back plane.
7. Once it is seated firmly, click the lever in place.

Step 3 Connecting RAID subsystem Power

Connect power cord to the power connector on the rear side of the RAID subsystem

Step 4 Connecting RAID subsystem to HOST Computer

- a. Plug the Ultra 320 LVD external cable supplied with the RAID subsystem to the SCSI adapter external connector and its SCSI-IN connector.
- b. Add the Ultra 320 LVD external cable supplied with the other SCSI device to RAID subsystem SCSI OUT connector. The end of the SCSI bus farthest from its SCSI OUT must have a hardware terminator installed.

Note: SCSI Termination: All SCSI buses require termination on both ends of the bus to prevent signal degradation. Most SCSI card supplies the termination on the origination end of the SCSI bus. Termination is for the opposite end if the bus is provided by the hardware terminator.

Step 5 RAID Creation Method

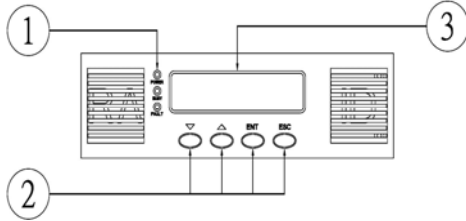
Method 1: LCD Panel with Keypad

The LCD status panel informs you of the Disk Array's current operating status at a glance. For additional information on using the LCD panel and keypad to configure the RAID subsystem see "LCD Configuration" on Main manual Chapter 4.

Note: There are a variety of failure conditions that cause the RAID subsystem monitoring LED to light. Table 1-1 and Table 1-2 provide a summary of the front panel LED and RAID subsystem LED.

LED	Normal Status	Problem Indication
Power LED	Bright Green	This LED does not light up after power switched on
Access	Blink green during host computer accessing the RAID subsystem.	LED never flickers
Fault	LED never light up	This LED will blink amber if there is any error action.

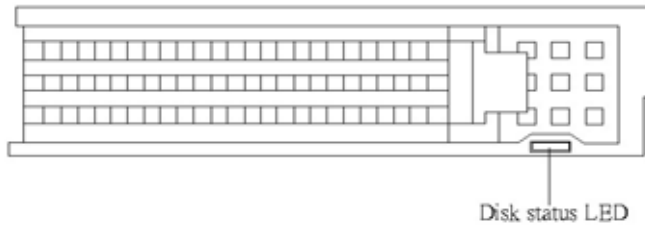
Table 1-1



1. LED operation indicator (from top to the down)
Power on, Busy, Fault
2. Control Button (for controller)
3. LCD Display Panel

Disk status	LED
Power	Bright Green
Activity	This LED blinks during hard drive read and write activity. Bright Green and RED
Drive Fail	Bright RED

Table 1-2

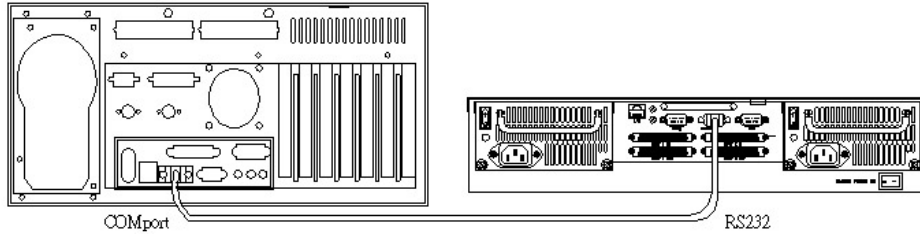


Method 2: Serial Port Connection

The RAID subsystem can be configured via a VT-100 compatible terminal or a PC running a VT-100 terminal emulation program. The provided interface cable converts the RS232

signal connector on the RAID subsystem into a 9-pin D-Sub male connector. You can attach a serial (Character-Based) terminal or server com port to the RAID subsystem for access to the text-based Setup Menu. The following setup is connecting the server com port to the RAID subsystem for access to the text-based Setup Menu

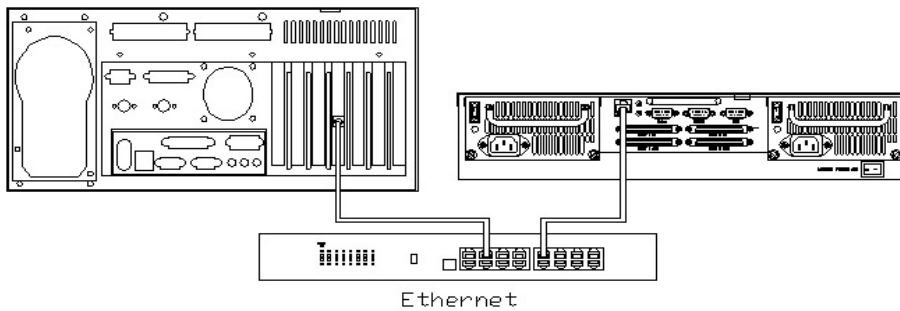
Connect external RS232 cable supplied with the raid subsystem to the host system serial port.



Method 3: Ethernet Port Connection

The RAID subsystem can be configured via a network compatible by DHCP Server and a PC running Browser emulation program. The provided interface cable converts the RJ-45 signal connector on the RAID subsystem into an 8-pin female connector. You can get IP address from DHCP Server, and use server LAN port to connect with the RAID subsystem for access to the web-based Setup Menu.

Connect external network cable supplied with the raid subsystem to the host system RJ-45 Ethernet port.



Step 6 Configure RAID Subsystems

You can configure RAID subsystem either through the LCD Configuration utility or Ethernet port or RS232C out of band management utility. The RAID subsystem supports

VT-100 terminal or CD-ROM bootable VT-100 utility and Web-browser management through the Ethernet port. In this quick set up manual will introduce you two configuration utility, one is Web browser and the other is RS 232C. These two configuration utilities are highly recommended to use.

The following examples are some setting for RAID configuration which will be introduced in this quick setting book, and next part of content will explain how to achieve each setting.

- Ex. 1. One single RAID-6 RAID set over 12 disks with only one logical drive.
- Ex. 2. One single RAID-6 RAID set over 12 disks. Cut up this RAID array into 4 logical drives (LUNs).
- Ex. 3. Multiple RAID group over 12 disks {Maximum 16 volume (raid group)}
Configure in three RAID groups - RAID-6 with 6 disks, RAID-1 with 4 disks, and JBOD with 2 disks
- Ex. 4. Setting Clustering (Redundant Server & HA software Dual Host).
R6 with 6 disks (volume 0 and 1); R5 with 6 disks (volume 2 and 3)
Volume-0 (Slice-0) for Database Index, mapped to both two Hosts.
Volume-1 (Slice-1) for Database Data, mapped to both two Hosts.
Volume-2 (Slice-2) for local data to Host-A (1), mapped to Host-A (1) only.
Volume-3 (Slice-3) for local data to Host-B (2), mapped to Host-B (2) only
- Ex. 5. Hot Plug JBOD over 12 disks

Method 1: WEB Browser

1. One single RAID-6 over 12 disks with only one logical drive.

Quickly create a Raid set—(based on current number of drives in the subsystem) and synchronously quick create a Volume set, as well.

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Alerts/Reboot](#)

Quick Create Raid/Volume Set

Total Number Of Disks	12
Select Raid Level	Raid 6
Maximum Capacity Allowed	1229.4 GB
Select Capacity	1229.4 GB
Volume Initialization Mode	Foreground Init (Faster Completion)
Select Stripe Size	64 KBytes

Confirm The Operation

Submit Reset

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Alerts/Reboot](#)

Volume Set Created Successfully

2. One single RAID-6 over 12 disks. Cut up this RAID array into 4 logical drives (LUNs).

2a. Create a Raid Set#00 over 12 disks

The screenshot shows a RAID configuration utility interface. On the left is a 'Function Menu' with categories: 'Quick Create', 'RaidSet Functions' (including Create, Delete, Expand, Activate, Create Hot Spare, Delete Hot Spare), 'VolumeSet Functions' (including Create, Delete, Modify, Check, Stop), 'Physical Drive' (including Create, Modify, Delete Pass Through, Identify), and 'System Control' (including System Config, EtherNet Config, View Events/Alerts/Reboot). The main area is titled 'Select The IDE Drives For RAID Set' and contains a table with 12 rows, each representing an IDE channel. All 'Select' checkboxes are checked. Below the table, the 'Raid Set Name' is set to 'Raid Set #00'. At the bottom, there is a 'Confirm The Operation' checkbox which is checked, and 'Submit' and 'Reset' buttons.

Select	Channel	Capacity	Model
<input checked="" type="checkbox"/>	IDE Ch01	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch02	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch03	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch04	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch05	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch06	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch07	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch08	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch09	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch10	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch11	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch12	122.9GB	Maxtor 4R120L0

2b. Raid Set Created Successfully message

The screenshot shows the same RAID configuration utility interface as in 2a. The main area now displays a red message box with the text 'Raid Set Created Successfully'. The 'Function Menu' on the left remains the same.

2c. Utilize Raid Set#00 to create first Volume Set#00

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Mute Beep](#)

Select The Raid Set To Create Volume On It

Select	Raid Set Name	Member Disks	Capacity
<input checked="" type="radio"/>	Raid Set # 00	12	1475.3GB

2d. Set up Volume set #00 default attributes

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

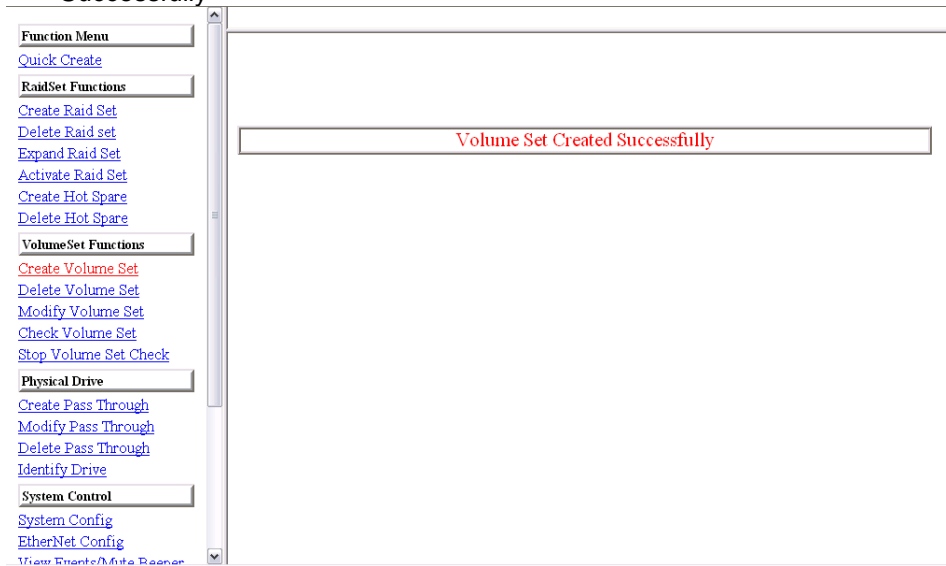
[View Events/Mute Beep](#)

Enter Volume Attribute On Raid Set # 00

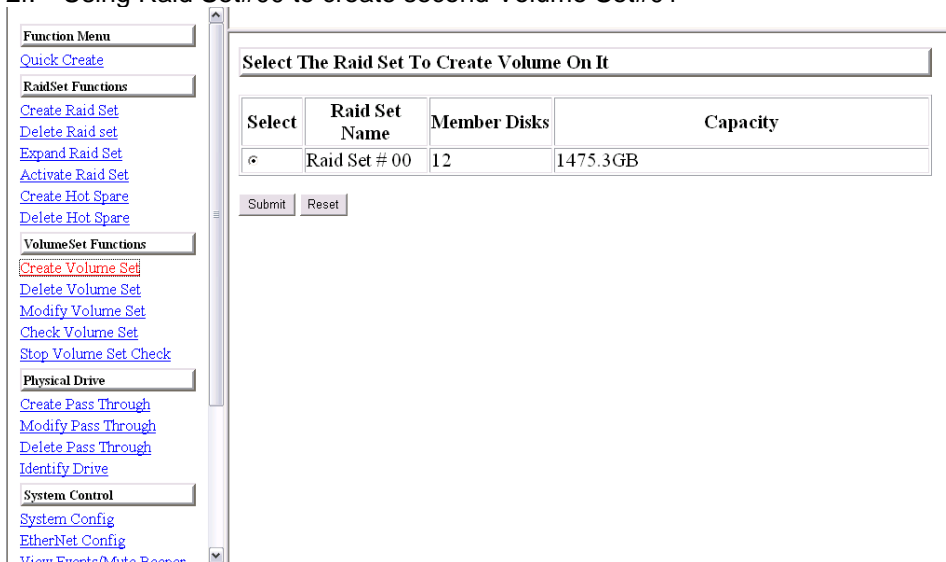
Volume Name	Volume Set #00
Member Disks	12
Volume Raid Level	Raid 6
Max Capacity Allowed	1229.4 GB
Select Volume Capacity	300 GB
Volume Initialization Mode	Background Init (Instant Available)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0 : 0 : 0

Confirm The Operation

2e. Set up completed and the screen will show "Volume Set Created Successfully"



2f. Using Raid Set#00 to create second Volume Set#01



2g. Set up Volume set #01 default attributes

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Write Reser](#)

Enter Volume Attribute On Raid Set # 00

Volume Name	Volume Set #01
Member Disks	12
Volume Raid Level	Raid 6
Max Capacity Allowed	929.4 GB
Select Volume Capacity	300 GB
Volume Initialization Mode	Background Init (Instant Available)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0 : 0 : 1

Confirm The Operation

2h. Using Raid Set#00 to create third Volume Set#02

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Write Reser](#)

Select The Raid Set To Create Volume On It

Select	Raid Set Name	Member Disks	Capacity
<input checked="" type="checkbox"/>	Raid Set # 00	12	1475.3GB

2i. Set up Volume set #02 default attributes

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Mute Beep](#)

Enter Volume Attribute On Raid Set # 00

Volume Name	Volume Set #02
Member Disks	12
Volume Raid Level	Raid 6
Max Capacity Allowed	629.4 GB
Select Volume Capacity	300 GB
Volume Initialization Mode	Foreground Init (Faster Completion)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0 : 0 : 2

Confirm The Operation

2j. Using Raid Set#00 to create forth Volume Set#03

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Mute Beep](#)

Select The Raid Set To Create Volume On It

Select	Raid Set Name	Member Disks	Capacity
<input checked="" type="radio"/>	Raid Set # 00	12	1475.3GB

2k. Set up Volume set #03 default attributes

Function Menu	
Quick Create	
RaidSet Functions	
Create Raid Set	
Delete Raid set	
Expand Raid Set	
Activate Raid Set	
Create Hot Spare	
Delete Hot Spare	
VolumeSet Functions	
Create Volume Set	
Delete Volume Set	
Modify Volume Set	
Check Volume Set	
Stop Volume Set Check	
Physical Drive	
Create Pass Through	
Modify Pass Through	
Delete Pass Through	
Identify Drive	
System Control	
System Config	
EtherNet Config	
View Events/Alerts/Repor	

Enter Volume Attribute On Raid Set # 00	
Volume Name	Volume Set #03
Member Disks	12
Volume Raid Level	Raid 6
Max Capacity Allowed	329.4 GB
Select Volume Capacity	329.4 GB
Volume Initialization Mode	Foreground Init (Faster Completion)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0 : 0 : 3
<input checked="" type="checkbox"/> Confirm The Operation	
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

3. Multiple RAID group over 12 disks
RAID-6 with 6 disks, RAID-0+1 with 4 disks, JBOD with 2 disks
The total Raid group can be slice into maximum 16 volumes

3a. Create first RAID Set #00 with 6 disks

Select The IDE Drives For RAID Set

Select	Channel	Capacity	Model
<input checked="" type="checkbox"/>	IDE Ch01	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch02	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch03	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch04	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch05	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch06	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch07	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch08	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch09	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch10	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch11	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch12	122.9GB	Maxtor 4R120L0

Raid Set Name:

Confirm The Operation

3b. Create the second Raid Set #01 with 4 disks

Select The IDE Drives For RAID Set

Select	Channel	Capacity	Model
<input checked="" type="checkbox"/>	IDE Ch07	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch08	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch09	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch10	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch11	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch12	122.9GB	Maxtor 4R120L0

Raid Set Name:

Confirm The Operation

3c.Using Raid Set#00 to create the Volume Set#00

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Alerts/Response](#)

Select The Raid Set To Create Volume On It

Select	Raid Set Name	Member Disks	Capacity
<input type="radio"/>	Raid Set # 00	6	737.7GB
<input type="radio"/>	Raid Set # 01	4	491.8GB

3d.Setting four disks' capacity which Volume Raid level is in Raid 6

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Alerts/Response](#)

Enter Volume Attribute On Raid Set # 00

Volume Name	Volume Set #00
Member Disks	6
Volume Raid Level	Raid 6
Max Capacity Allowed	491.8 GB
Select Volume Capacity	491.8 GB
Volume Initialization Mode	Background Init (Instant Available)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0 : 0 : 0

Confirm The Operation

3e. Using Raid Set#01 to Create Volume Set#01

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Write Respon](#)

Select The Raid Set To Create Volume On It

Select	Raid Set Name	Member Disks	Capacity
<input type="radio"/>	Raid Set # 00	6	737.7GB
<input checked="" type="radio"/>	Raid Set # 01	4	491.8GB

3f. Setting the capacity of 4 disks which Volume Raid level are in Raid 0+1

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Write Respon](#)

Enter Volume Attribute On Raid Set # 01

Volume Name	Volume Set #01
Member Disks	4
Volume Raid Level	Raid 0+1
Max Capacity Allowed	245.9 GB
Select Volume Capacity	245.9 GB
Volume Initialization Mode	Foreground Init (Faster Completion)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0 : 0 : 1

Confirm The Operation

3g. Using “Create Pass through” to create the JBOD with 1 disk

[Delete RAID Set](#)
[Expand RAID Set](#)
[Activate RAID Set](#)
[Create Hot Spare](#)
[Delete Hot Spare](#)

VolumeSet Functions
[Create Volume Set](#)
[Delete Volume Set](#)
[Modify Volume Set](#)
[Check Volume Set](#)
[Stop Volume Set Check](#)

Physical Drive
[Create Pass Through](#)
[Modify Pass Through](#)
[Delete Pass Through](#)
[Identify Drive](#)

System Control
[System Config](#)
[EtherNet Config](#)
[View Events/Mute Beeper](#)
[Clear Event Buffer](#)
[Modify Password](#)
[Upgrade Firmware](#)
[Restart Controller](#)

Information

Select the IDE drive For Pass Through

Select	Channel	Capacity	Model
<input checked="" type="radio"/>	IDE Ch11	122.9GB	Maxtor 4R120L0
<input type="radio"/>	IDE Ch12	122.9GB	Maxtor 4R120L0

Enter Pass Through Disk Attribute

Volume Cache Mode: Write Back
 Tagged Command Queuing: Enabled
 Max SCSI Speed: 160MB/Sec
 SCSI Channel:SCSI_ID:SCSI_Lun: 0 : 0 : 2

Confirm The Operation

Submit Reset

3h. Using “Create Pass through” to create the JBOD with 1 disk

[Delete RAID Set](#)
[Expand RAID Set](#)
[Activate RAID Set](#)
[Create Hot Spare](#)
[Delete Hot Spare](#)

VolumeSet Functions
[Create Volume Set](#)
[Delete Volume Set](#)
[Modify Volume Set](#)
[Check Volume Set](#)
[Stop Volume Set Check](#)

Physical Drive
[Create Pass Through](#)
[Modify Pass Through](#)
[Delete Pass Through](#)
[Identify Drive](#)

System Control
[System Config](#)
[EtherNet Config](#)
[View Events/Mute Beeper](#)
[Clear Event Buffer](#)
[Modify Password](#)
[Upgrade Firmware](#)
[Restart Controller](#)

Information

Select the IDE drive For Pass Through

Select	Channel	Capacity	Model
<input checked="" type="radio"/>	IDE Ch12	122.9GB	Maxtor 4R120L0

Enter Pass Through Disk Attribute

Volume Cache Mode: Write Back
 Tagged Command Queuing: Enabled
 Max SCSI Speed: 160MB/Sec
 SCSI Channel:SCSI_ID:SCSI_Lun: 0 : 0 : 3

Confirm The Operation

Submit Reset

3i. Click "Raid Set Hierarchy" to view the Subsystem configuration

[Delete Hot Spare](#)
VolumeSet Functions
[Create Volume Set](#)
[Delete Volume Set](#)
[Modify Volume Set](#)
[Check Volume Set](#)
[Stop Volume Set Check](#)
Physical Drive
[Create Pass Through](#)
[Modify Pass Through](#)
[Delete Pass Through](#)
[Identify Drive](#)
System Control
[System Config](#)
[EtherNet Config](#)
[View Events/Mute Beeper](#)
[Clear Event Buffer](#)
[Modify Password](#)
[Upgrade Firmware](#)
[Restart Controller](#)
Information
[RaidSet Hierarchy](#)
[System Information](#)
[Hardware Monitor](#)

Raid Set Hierarchy				
Raid Set	IDE Channels	Volume Set (Ch/Id/Lum)	Volume State	Capacity
Raid Set # 00	Ch01	Volume Set # 00 (0/0/0)	Initializing(0.1%)	491.8GB
	Ch02			
	Ch03			
	Ch04			
	Ch05			
	Ch06			
Raid Set # 01	Ch07	Volume Set # 01 (0/0/1)	Normal	245.9GB
	Ch08			
	Ch09			
	Ch10			
Raid Set # 02	Ch11	4R120L0 (0/0/2)	Normal	122.9GB
Raid Set # 03	Ch12	4R120L0 (0/0/3)	Normal	122.9GB

IDE Channels

[Delete Hot Spare](#)
VolumeSet Functions
[Create Volume Set](#)
[Delete Volume Set](#)
[Modify Volume Set](#)
[Check Volume Set](#)
[Stop Volume Set Check](#)
Physical Drive
[Create Pass Through](#)
[Modify Pass Through](#)
[Delete Pass Through](#)
[Identify Drive](#)
System Control
[System Config](#)
[EtherNet Config](#)
[View Events/Mute Beeper](#)
[Clear Event Buffer](#)
[Modify Password](#)
[Upgrade Firmware](#)
[Restart Controller](#)
Information
[RaidSet Hierarchy](#)
[System Information](#)
[Hardware Monitor](#)

	Ch02			
	Ch10			
Raid Set # 02	Ch11	4R120L0 (0/0/2)	Normal	122.9GB
Raid Set # 03	Ch12	4R120L0 (0/0/3)	Normal	122.9GB

IDE Channels

Channel	Usage	Capacity	Model
Ch01	Raid Set # 00	122.9GB	Maxtor 4R120L0
Ch02	Raid Set # 00	122.9GB	Maxtor 4R120L0
Ch03	Raid Set # 00	122.9GB	Maxtor 4R120L0
Ch04	Raid Set # 00	122.9GB	Maxtor 4R120L0
Ch05	Raid Set # 00	122.9GB	Maxtor 4R120L0
Ch06	Raid Set # 00	122.9GB	Maxtor 4R120L0
Ch07	Raid Set # 01	122.9GB	Maxtor 4R120L0
Ch08	Raid Set # 01	122.9GB	Maxtor 4R120L0
Ch09	Raid Set # 01	122.9GB	Maxtor 4R120L0
Ch10	Raid Set # 01	122.9GB	Maxtor 4R120L0
Ch11	Pass Through	122.9GB	Maxtor 4R120L0
Ch12	Pass Through	122.9GB	Maxtor 4R120L0

4. **Setting Clustering (Redundant Server & HA software Dual Host).**

- R6 with 6 disks (volume 0 and 1); R5 with 6 disks (volume 2 and 3)
- Volume-0(Slice-0) for Database Index, mapped to both two Hosts.
- Volume-1(Slice-1) for Database Data, mapped to both two Hosts.
- Volume-2(Slice-2) for local data to Host-A(1), mapped to Host-A(1) only.
- Volume-3(Slice-3) for local data to Host-B(2), mapped to Host-B(2) only.

4a. Create first Raid Set#00 with 6 disks

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Write Backlog](#)

Select The IDE Drives For RAID Set

Select	Channel	Capacity	Model
<input checked="" type="checkbox"/>	IDE Ch01	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch02	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch03	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch04	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch05	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch06	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch07	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch08	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch09	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch10	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch11	122.9GB	Maxtor 4R120L0
<input type="checkbox"/>	IDE Ch12	122.9GB	Maxtor 4R120L0

Raid Set Name:

Confirm The Operation

4b. Create second Raid Set#01 with 6 disks

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Write Backlog](#)

Select The IDE Drives For RAID Set

Select	Channel	Capacity	Model
<input checked="" type="checkbox"/>	IDE Ch07	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch08	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch09	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch10	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch11	122.9GB	Maxtor 4R120L0
<input checked="" type="checkbox"/>	IDE Ch12	122.9GB	Maxtor 4R120L0

Raid Set Name:

Confirm The Operation

4c. Using Raid Set#00 to create the Volume Set#00

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Alerts/Reboot](#)

Select The Raid Set To Create Volume On It

Select	Raid Set Name	Member Disks	Capacity
<input checked="" type="radio"/>	Raid Set # 00	6	737.7GB
<input type="radio"/>	Raid Set # 01	6	737.7GB

4d. Setting SCSI Channel on "0&1 for cluster"

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Alerts/Reboot](#)

Enter Volume Attribute On Raid Set # 00

Volume Name	Volume Set #00
Member Disks	6
Volume Raid Level	Raid 6
Max Capacity Allowed	491.8 GB
Select Volume Capacity	250 GB
Volume Initialization Mode	Background Init (Instant Available)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0&1 For Cluster : 0 : 0

Confirm The Operation

4e. Using Raid Set#00 to create the Volume Set#01

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Alerts/Reboot](#)

Select The Raid Set To Create Volume On It

Select	Raid Set Name	Member Disks	Capacity
<input checked="" type="radio"/>	Raid Set # 00	6	737.7GB
<input type="radio"/>	Raid Set # 01	6	737.7GB

4f. Setting SCSI Channel on "0&1 for cluster"

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Alerts/Reboot](#)

Enter Volume Attribute On Raid Set # 00

Volume Name	Volume Set #01
Member Disks	6
Volume Raid Level	Raid 6
Max Capacity Allowed	241.8 GB
Select Volume Capacity	241.8 GB
Volume Initialization Mode	Background Init (Instant Available)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0&1 For Cluster : 0 : 1

Confirm The Operation

4g. Using Raid Set#01 to create the Volume Set#03

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Write Backer](#)

Select The Raid Set To Create Volume On It

Select	Raid Set Name	Member Disks	Capacity
<input type="radio"/>	Raid Set # 00	6	737.7GB
<input checked="" type="radio"/>	Raid Set # 01	6	737.7GB

4h. Setting SCSI Channel on "Channel 0"

Function Menu

[Quick Create](#)

RaidSet Functions

[Create Raid Set](#)

[Delete Raid set](#)

[Expand Raid Set](#)

[Activate Raid Set](#)

[Create Hot Spare](#)

[Delete Hot Spare](#)

VolumeSet Functions

[Create Volume Set](#)

[Delete Volume Set](#)

[Modify Volume Set](#)

[Check Volume Set](#)

[Stop Volume Set Check](#)

Physical Drive

[Create Pass Through](#)

[Modify Pass Through](#)

[Delete Pass Through](#)

[Identify Drive](#)

System Control

[System Config](#)

[EtherNet Config](#)

[View Events/Write Backer](#)

Enter Volume Attribute On Raid Set # 01

Volume Name	Volume Set #02
Member Disks	6
Volume Raid Level	Raid 5
Max Capacity Allowed	614.7 GB
Select Volume Capacity	300 GB
Volume Initialization Mode	Background Init (Instant Available)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	0 : 0 : 2

Confirm The Operation

4i. Using Raid Set#01 to create the Volume Set#04

The screenshot shows a web-based RAID configuration interface. On the left is a navigation menu with sections: Function Menu, RaidSet Functions, VolumeSet Functions, Physical Drive, and System Control. The main area is titled "Select The Raid Set To Create Volume On It". It contains a table with the following data:

Select	Raid Set Name	Member Disks	Capacity
<input type="radio"/>	Raid Set # 00	6	737.7GB
<input checked="" type="radio"/>	Raid Set # 01	6	737.7GB

Below the table are "Submit" and "Reset" buttons.

4j. Setting SCSI Channel on "Channel 1"

The screenshot shows the "Enter Volume Attribute On Raid Set # 01" configuration page. The left navigation menu is the same as in the previous screenshot. The main area contains a form with the following fields:

Volume Name	Volume Set #03
Member Disks	6
Volume Raid Level	Raid 5
Max Capacity Allowed	314.7 GB
Select Volume Capacity	314.7 GB
Volume Initialization Mode	Background Init (Instant Available)
Volume Stripe Size	64 KBytes
Volume Cache Mode	Write Back
Tagged Command Queuing	Enabled
Max SCSI Speed	160MB/Sec
SCSI Channel:SCSI ID:SCSI Lun	1 : 0 : 2

At the bottom of the form, there is a checked checkbox labeled "Confirm The Operation" and "Submit" and "Reset" buttons.

5. Hot-plug JBOD function over 12 disks

JBOD is an exclusive function with RAID function. If JBOD is selected, all the 12 channel will be mapped to both host 1 and host 2.

Disk Identification:

DISK Channel – Host SCSI Channel\SCSI ID\SCSI LUN

IDE Ch1	--	0&1/0/0
IDE Ch2	--	0&1/1/0
IDE Ch3	--	0&1/2/0
IDE Ch4	--	0&1/3/0
IDE Ch5	--	0&1/4/0
IDE Ch6	--	0&1/5/0
IDE Ch7	--	0&1/6/0
IDE Ch8	--	0&1/8/0
IDE Ch9	--	0&1/9/0
IDE Ch10	--	0&1/10/0
IDE Ch11	--	0&1/11/0
IDE Ch12	--	0&1/12/0

5a. Selected "JBOD"

The screenshot shows a web-based configuration interface. On the left is a navigation menu with categories: VolumeSet Functions, Physical Drive, System Control, and Information. The main area is titled 'System Configurations' and contains several settings:

System Beeper Setting	Enabled
Rebuild Priority	Medium(50%)
Terminal Port Configuration	Baud Rate 115200, Stop Bits 1
JBOD/RAID Configuration	JBOD
Max ATA Mode Supported	ATA133

Below the settings is a confirmation box with a checked checkbox and the text 'Confirm The Operation'. At the bottom are 'Submit' and 'Reset' buttons.

5b. JBOD Created Successfully message

The screenshot displays a RAID controller web interface. On the left is a navigation menu with the following sections and links:

- Delete Hot Spare**
- VolumeSet Functions**
 - [Create Volume Set](#)
 - [Delete Volume Set](#)
 - [Modify Volume Set](#)
 - [Check Volume Set](#)
 - [Stop Volume Set Check](#)
- Physical Drive**
 - [Create Pass Through](#)
 - [Modify Pass Through](#)
 - [Delete Pass Through](#)
 - [Identify Drive](#)
- System Control**
 - [System Config](#)
 - [EtherNet Config](#)
 - [View Events/Mute Beeper](#)
 - [Clear Event Buffer](#)
 - [Modify Password](#)
 - [Upgrade Firmware](#)
 - [Restart Controller](#)
- Information**
 - [RaidSet Hierarchy](#)
 - [System Information](#)
 - [Hardware Monitor](#)

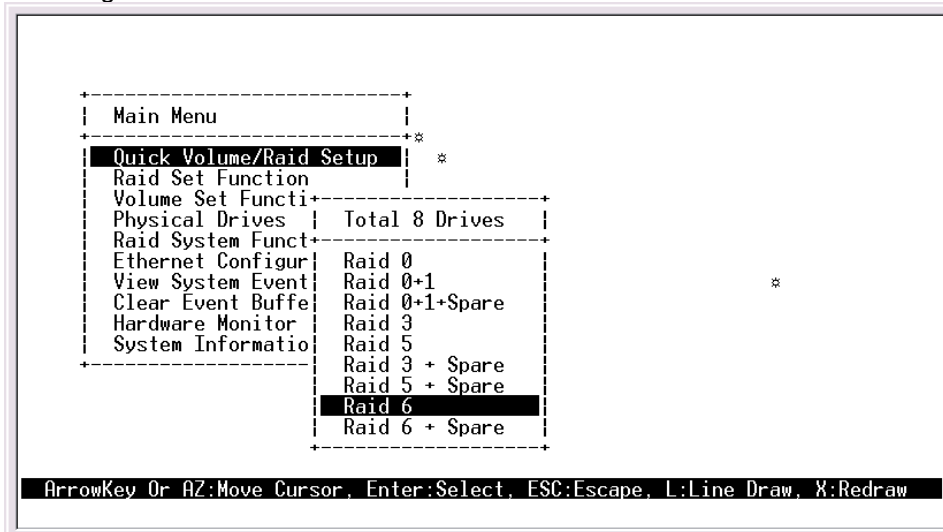
The main content area on the right contains a red-bordered box with the following text:

**Raid System Is Configured As JBOD
Parameter Updated Successfully**

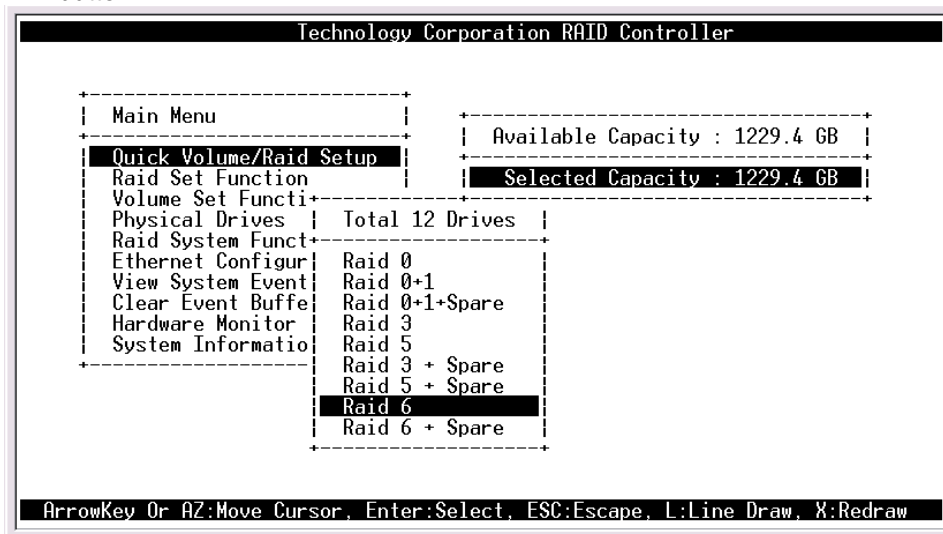
Method 2: RS-232

1. One single RAID-6 over 12 disks with only one logical drive.

- 1a. Select “ Quick Volume/Raid Setup “ from the Main Menu to create a Raid set–(based on current total number of drives) and synchronously quick configure the Volume set in R6



- 1b. Select Capacity: to adjust capacity setting by press “ ”button or “ ” button



1c. Select Stripe Size

```

Technology Corporation RAID Controller

+-----+
| Main Menu | Available Capacity : 1229.4 GB |
+-----+
| Quick Volume/Raid Setup | Selected Capacity : 1229.4 GB |
+-----+
| Raid Set Function |
| Volume Set Function |
| Physical Drives | Total 12 Drives |
| Raid System Function |
| Ethernet Configuration |
| View System Event |
| Clear Event Buffer |
| Hardware Monitor |
| System Information |
+-----+
| Raid 0 | Select Stripe Size |
| Raid 0+1 |
| Raid 0+1+Spare | 4K |
| Raid 3 | 8K |
| Raid 5 | 16K |
| Raid 3 + Spare | 32K |
| Raid 5 + Spare | 64K |
| Raid 6 | 128K |
| Raid 6 + Spare |
+-----+

ArrowKey Or AZ:Move Cursor, Enter:Select, ESC:Escape, L:Line Draw, X:Redraw

```

1d. Select "YES"

```

Technology Corporation RAID Controller

+-----+
| Main Menu | Available Capacity : 1229.4 GB |
+-----+
| Quick Volume/Raid Setup | Selected Capacity : 1229.4 GB |
+-----+
| Raid Set Function |
| Volume Set Function |
| Physical Drives | Total 12 Drives |
| Raid System Function |
| Ethernet Configuration |
| View System Event |
| Clear Event Buffer |
| Hardware Monitor |
| System Information |
+-----+
| Raid 0 | Create Vol/Raid Set | e |
| Raid 0+1 |
| Raid 0+1+Spare | Yes |
| Raid 3 | No |
| Raid 5 |
| Raid 3 + Spare | 32K |
| Raid 5 + Spare | 64K |
| Raid 6 | 128K |
| Raid 6 + Spare |
+-----+

ArrowKey Or AZ:Move Cursor, Enter:Select, ESC:Escape, L:Line Draw, X:Redraw

```

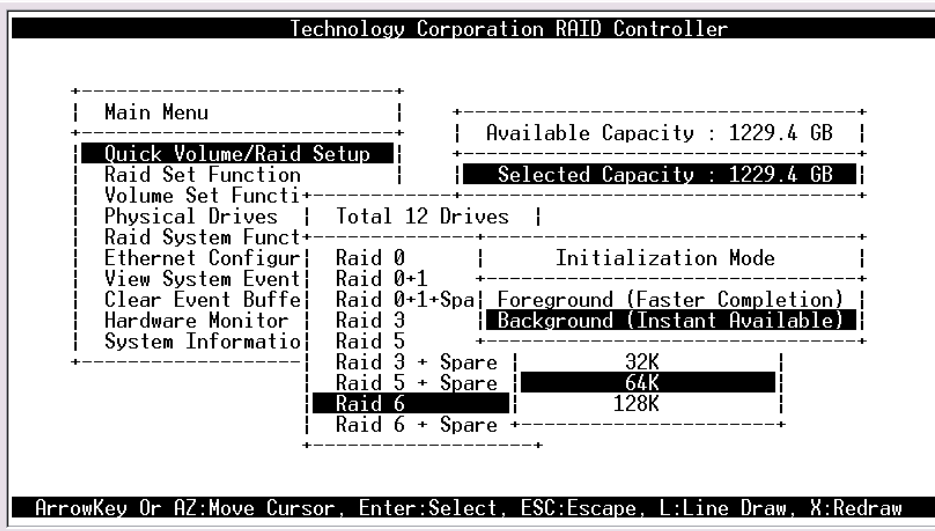
1e. Initialization Mode: select "Foreground" or "Background"

Foreground init:

The initialization proceeds must be completed before the volume set ready for system accesses.

Background init:

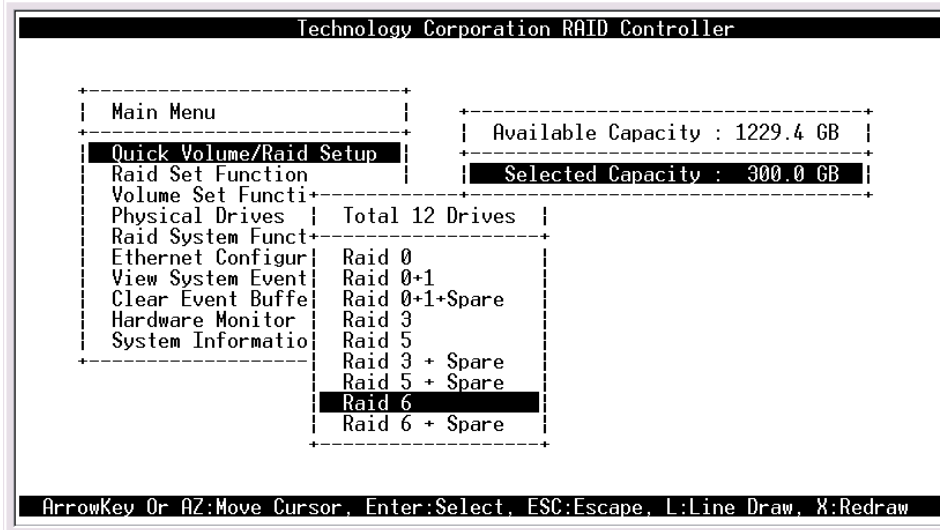
the initialization proceeds as a background task, the volume set is fully accessible for system reads and writes. The operating system can instantly access to the newly created arrays without requiring a reboot and waiting the initialization



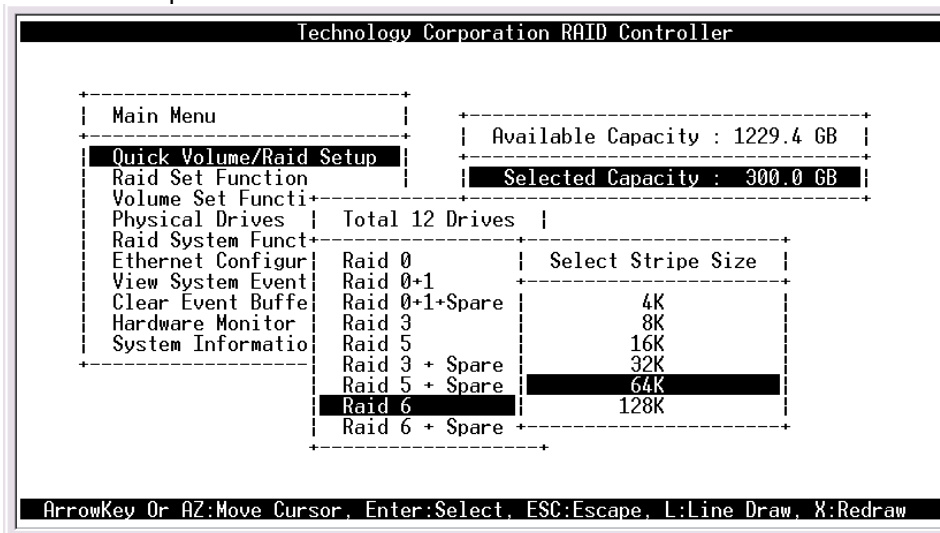
"One single RAID-6 over 12 disks" has been successful completed

2. One single RAID-6 over 12 disks. Cut up this RAID array into 4 logical drives (LUNs).

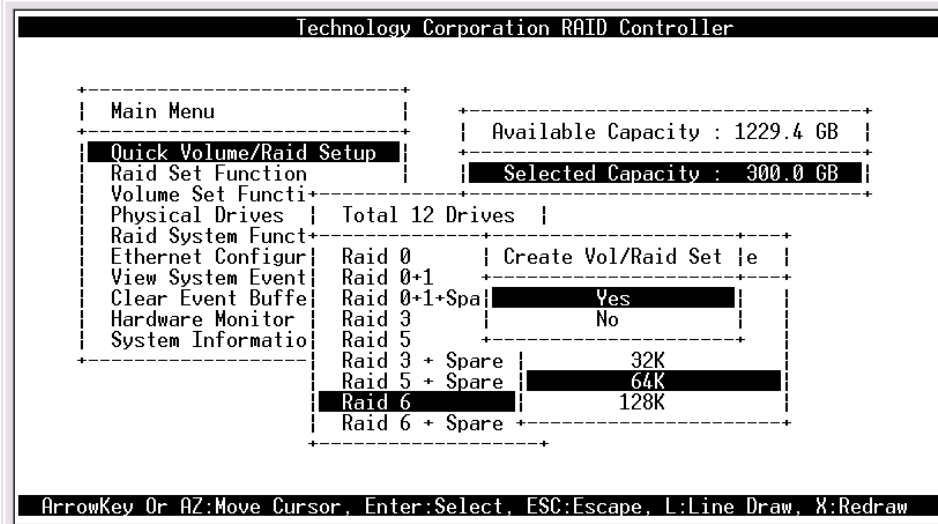
2a. Select "Quick Volume/Raid Setup" from the Main Menu to create a Raid set#00—(based on current total number of drives) and synchronously quick configure the Volume set in R6. Then, select capacity for the first Volume (#00).



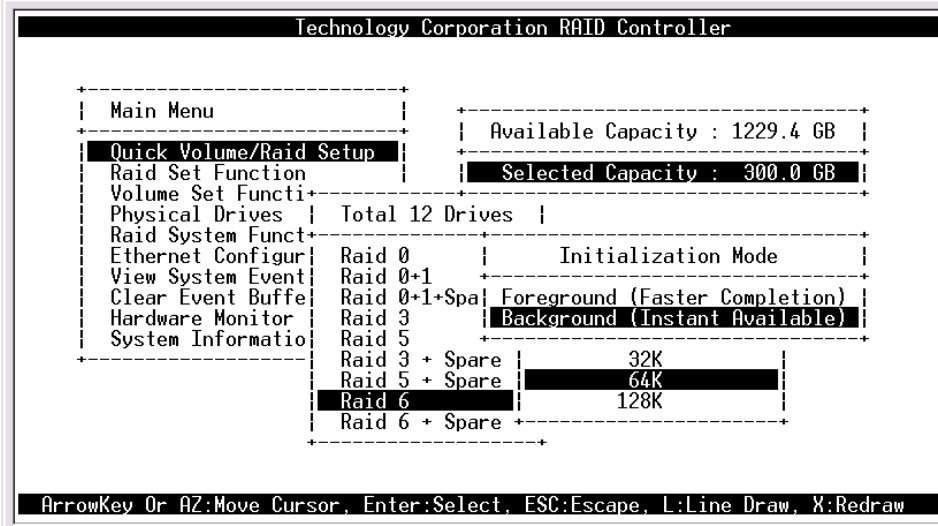
2b. Select Stripe Size



2c. Select "Yes"



2d. Initialization Mode: select "Foreground" or "Background"



2e. Create Volume#01 from Raid Set#00

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra|
| Vo| Creat |
| Ph| Delet| Create Volume From Raid Set |
| Ra| Modif+-----
| Et| Check| Raid Set # 00 |
| Vi| Stop +-----
| Cl| Display Volume Info. |
| Ha|
| System Information |
-----

Volume Set # 00 : Initialize : 0.2% Completed, Elapse Time = 00:00:13

```

2f. Select Capacity. Then, press "ESC" button to go to the next screen

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions | Available Capacity : 929.4 GB |
| Ra|                               Selected Capacity : 300.0 GB |
| Vo| Creat | Volume Creation |
| Ph| Delet|
| Ra| Modif+-----
| Et| Check| Volume Name : Volume Set # 01 |
| Vi| Stop +-----
| Cl| Display| Stripe Size : 64K |
| Ha|                               SCSI Channel : 0 |
| System Infor| SCSI ID : 0 |
|                               SCSI LUN : 1 |
|                               Cache Mode : Write Back |
|                               Tag Queuing : Enabled |
|                               Max Sync Rate : 160 MB/sec |
-----

Volume Set # 00 : Initialize : 1.6% Completed, Elapse Time = 00:01:43

```

2g. Create Volume: Select "Yes"

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+--| Volume Creation |
| Ph| Delet| |
| Ra| Modif+--| Volume Name : V+-----+
| Et| Check|█| Raid Level : 6| Create Volume ? |
| Vi| Stop +--| Capacity : 3+-----+
| Cl| Display| Stripe Size : 6| Yes |
| Ha+-----+ | No |
| System Infor|
| SCS| SCSI Channel : 0|
| SCSI ID : 0|
| SCSI LUN : 1|
| Cache Mode : Write Back|
| Tag Queuing : Enabled|
| Max Sync Rate : 160 MB/sec|
-----

Volume Set # 00 : Initialize : 2.4% Completed, Elapse Time = 00:02:35
  
```

2h. Initialization Mode: select "Foreground" or "Background"

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+--| Volume Creation |
| Ph| Delet| |
| Ra| Modif+--| Volume Name : V+-----+
| Et| Check|█| Raid Level : 6| Initialization Mode |
| Vi| Stop +--| Capacity : 3+-----+
| Cl| Display| Stripe Size : 6| Foreground (Faster Completion) |
| Ha+-----+ | Background (Instant Available) |
| System Infor|
| SCS| SCSI Channel : 0|
| SCSI ID : 0|
| SCSI LUN : 1|
| Cache Mode : Write Back|
| Tag Queuing : Enabled|
| Max Sync Rate : 160 MB/sec|
-----

Volume Set # 00 : Initialize : 3.0% Completed, Elapse Time = 00:03:15
  
```

2i. Create third Volume#02 from Raid Set#00

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+-----+
| Ph| Delet| Create Volume From Raid Set |
| Ra| Modif+-----+
| Et| Check| Raid Set # 00 |
| Vi| Stop +-----+
| Cl| Display Volume Info. |
| Ha+-----+
| System Information |
-----

Volume Set # 00 : Initialize : 0.2% Completed, Elapse Time = 00:00:13
    
```

2j. Setting the Volume set #02 capacity

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions | Available Capacity : 629.4 GB |
| Ra+-----+ Selected Capacity : 300.0 GB |
| Vo| Creat+-----+
| Ph| Delet| Volume Creation+-----+
| Ra| Modif+-----+ Volume Name : Volume Set # 02
| Et| Check| Raid Level : 6
| Vi| Stop +-----+ Capacity : 629.4GB
| Cl| Display| Stripe Size : 64K
| Ha+-----+ SCSI Channel : 0
| System Infor| SCSI ID : 0
| | SCSI LUN : 2
| | Cache Mode : Write Back
| | Tag Queuing : Enabled
| | Max Sync Rate : 160 MB/sec
-----

Volume Set # 00 : Initialize : 4.1% Completed, Elapse Time = 00:04:26
    
```

The rest of steps, please repeat the step “2g”to create Volume set and”2h”to select Initialization Mode

2k. Create forth Volume#03 from Raid Set#00

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+-----+
| Ph| Delet| Create Volume From Raid Set |
| Ra| Modif+-----+
| Et| Check| Raid Set # 00 |
| Vi| Stop +-----+
| Cl| Display Volume Info. |
| Ha+-----+
| System Information |
-----

Volume Set # 00 : Initialize : 0.2% Completed, Elapse Time = 00:00:13

```

2l. Setting the Volume set #03 capacity

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+-----+ Volume Creation
| Ph| Delet|
| Ra| Modif+-----+
| Et| Check| Volume Name : Volume Set # 03
| Vi| Stop +-----+
| Cl| Display| Raid Level : 6
| Ha+-----+ Capacity : 329.4GB
| System Infor| Stripe Size : 64K
| | SCSI Channel : 0
| | SCSI ID : 0
| | SCSI LUN : 3
| | Cache Mode : Write Back
| | Tag Queuing : Enabled
| | Max Sync Rate : 160 MB/sec
-----

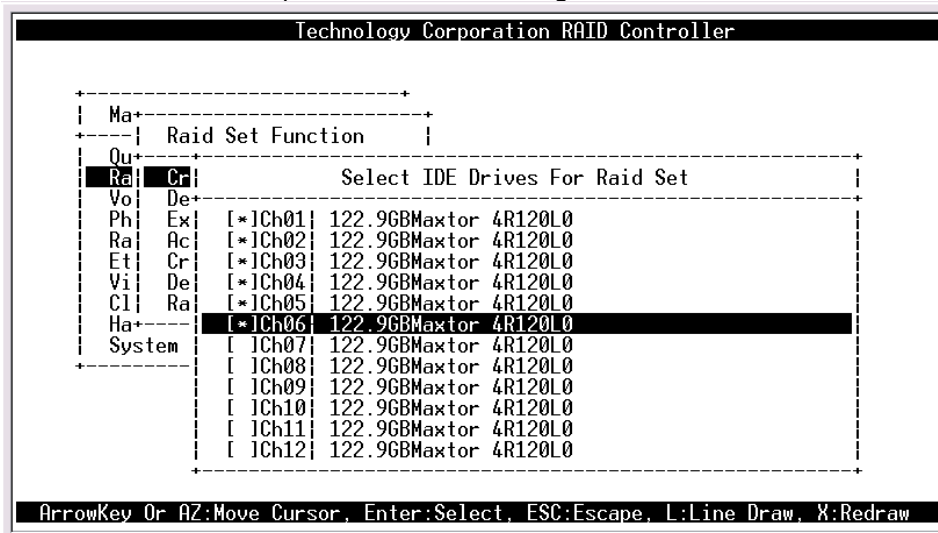
Volume Set # 00 : Initialize : 5.1% Completed, Elapse Time = 00:05:32

```

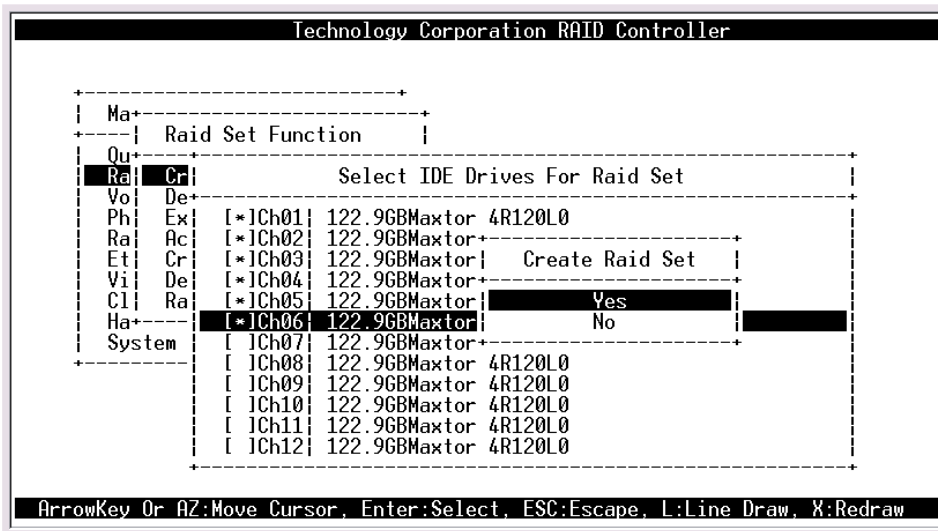
The rest of steps, please repeat the step “2g”to create Volume set and”2h”to select Initialization Mode

**3. Multiple RAID over 12 disks (Maximum 16 arrays)
RAID-6 with 6 disks, RAID-0+1 with 4 disks, JBOD with 2 disks**

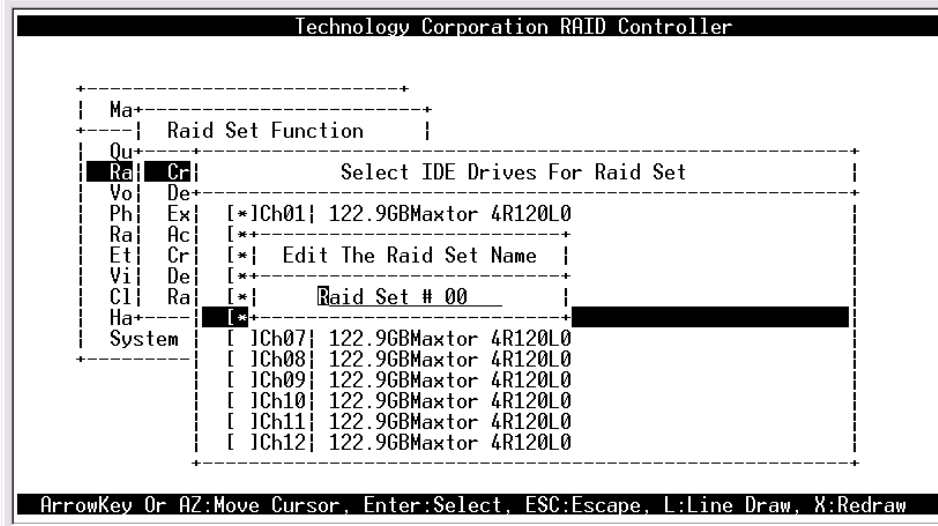
3a. Select "Raid set function" from the Main Menu to create first RAID Set #00 with 4 disks. Then, press "ESC" button to go to the next screen



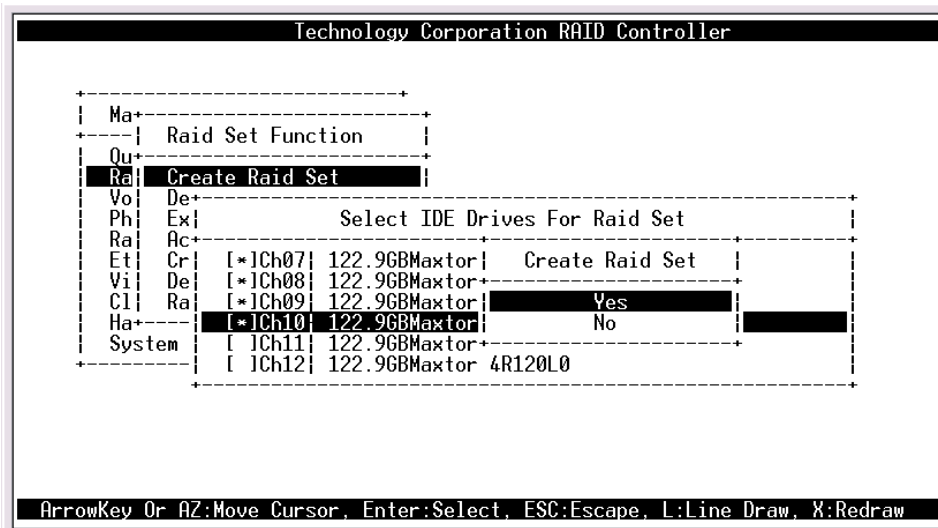
3b. Select "Yes"



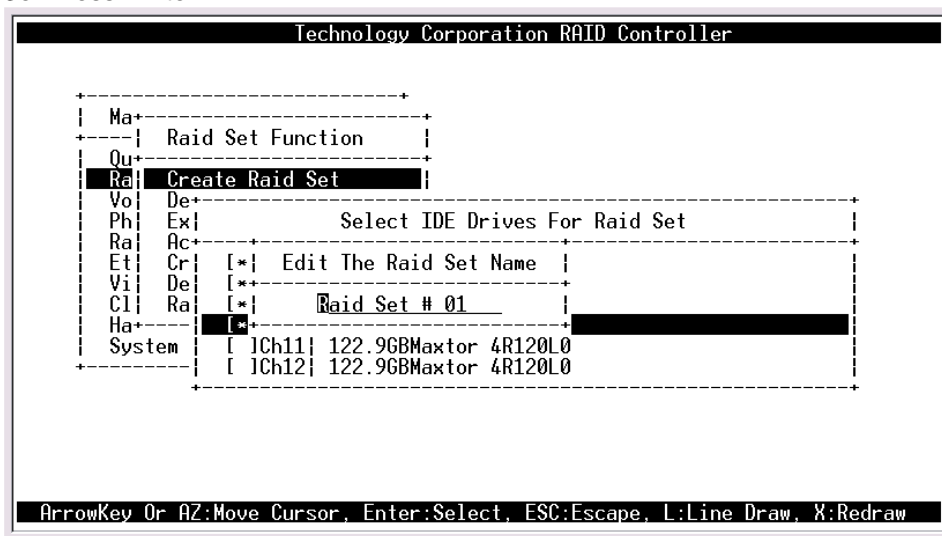
3c. Press "Enter"



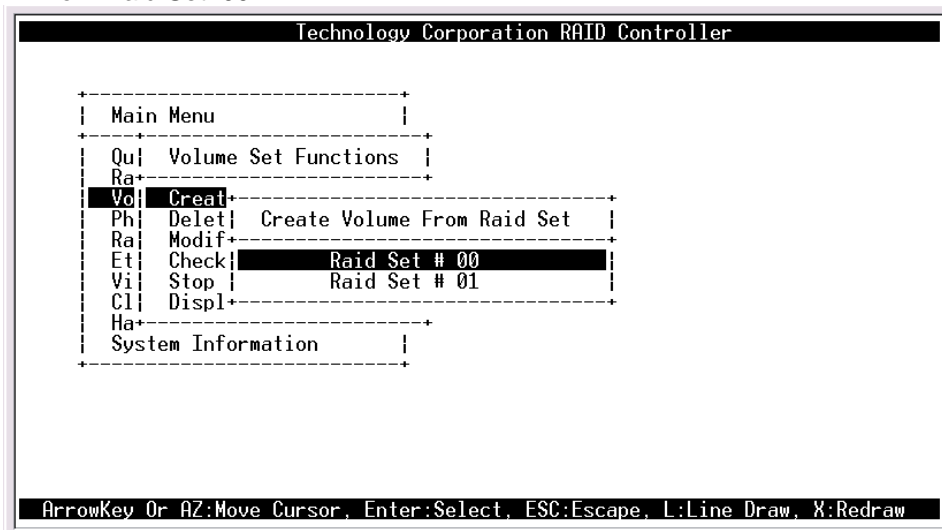
3d. Select "Raid set function" from the Main Menu to create the second Raid Set #01 with 2 disks. Then select "Yes".



3e. Press "Enter"



3f. Select "Volume set function" Main Menu from the to create first Volume#00 from Raid Set#00



3g. Select Raid Level: setting the RAID 6 in the Raid level attribute

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+--| Volume Creation |
| Ph| Delet|-----+
| Ra| Modif+--| Volume Name : Volume Set # 00 |
| Et| Check| | Raid Level : 5 |
| Vi| Stop |-----+-----+
| Cl| Displ+--| Capacity : 614. | Select Raid Level |
| Ha+-----+-----+
| System Infor| SCSI Channel : 0 |
|-----+-----+
| SCSI ID : 0 |
| SCSI LUN : 0 |
| Cache Mode : Write Back |
| Tag Queuing : Enabled |
| Max Sync Rate : 160 |
-----
ArrowKey Or AZ:Move Cursor, Enter:Select, ESC:Escape, L:Line Draw, X:Redraw

```

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+--| Volume Creation |
| Ph| Delet|-----+
| Ra| Modif+--| Volume Name : Volume Set # 00 |
| Et| Check| | Raid Level : 6 |
| Vi| Stop |-----+-----+
| Cl| Displ+--| Capacity : 491.8GB |
| Ha+-----+-----+
| System Infor| SCSI Channel : 0 |
|-----+-----+
| SCSI ID : 0 |
| SCSI LUN : 0 |
| Cache Mode : Write Back |
| Tag Queuing : Enabled |
| Max Sync Rate : 160 MB/sec |
-----
ArrowKey Or AZ:Move Cursor, Enter:Select, ESC:Escape, L:Line Draw, X:Redraw

```

3h. Then, press "ESC" button to "Create Volume"

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+--| Volume Creation |
| Ph| Delet|-----+
| Ra| Modif+--| Volume Name : V+-----+
| Et| Check| | Raid Level : 6| Create Volume ? |
| Vi| Stop | Capacity : 4+-----+
| Cl| Displ+--| Stripe Size : 6| Yes |
| Ha+-----+ | SCSI Channel : 0| No |
| System Infor| SCSI ID : 0+-----+
| | SCSI LUN : 0 |
| | Cache Mode : Write Back |
| | Tag Queuing : Enabled |
| | Max Sync Rate : 160 MB/sec |
-----

ArrowKey Or AZ:Move Cursor, Enter:Select, ESC:Escape, L:Line Draw, X:Redraw

```

3i. Initialization Mode: Select "Foreground" or "Background"

```

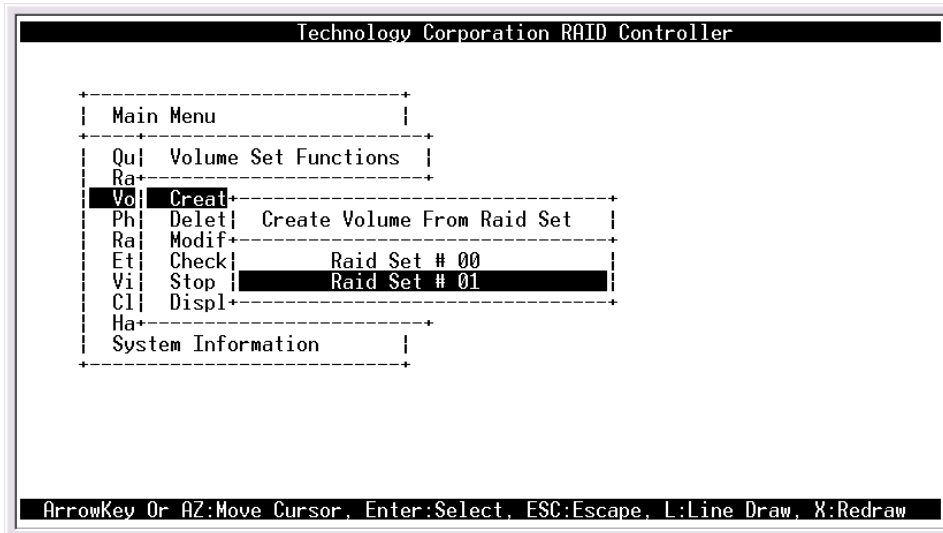
Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
| Ra+-----+
| Vo| Creat+--| Volume Creation |
| Ph| Delet|-----+
| Ra| Modif+--| Volume Name : V+-----+
| Et| Check| | Raid Level : 6| Initialization Mode |
| Vi| Stop | Capacity : 4+-----+
| Cl| Displ+--| Stripe Size : 6| Foreground (Faster Completion) |
| Ha+-----+ | SCSI Channel : 0| Background (Instant Available) |
| System Infor| SCSI ID : 0+-----+
| | SCSI LUN : 0 |
| | Cache Mode : Write Back |
| | Tag Queuing : Enabled |
| | Max Sync Rate : 160 MB/sec |
-----

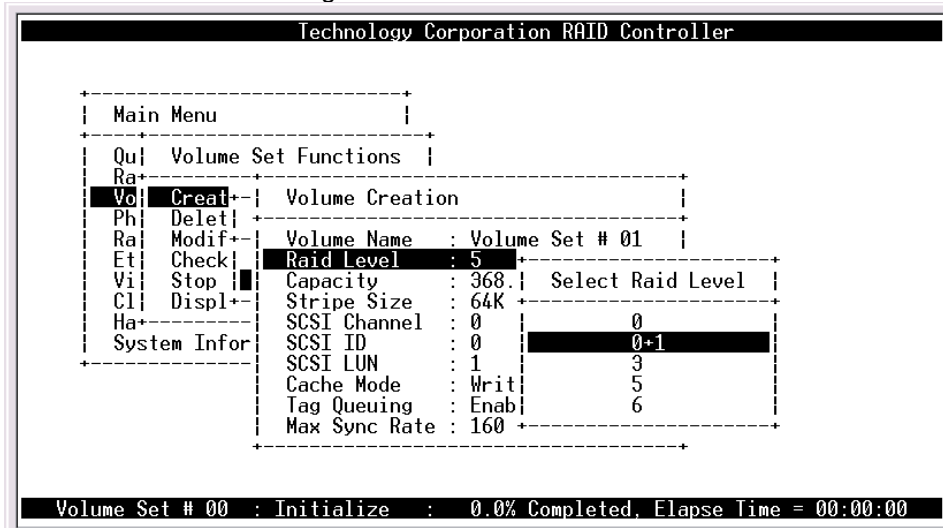
ArrowKey Or AZ:Move Cursor, Enter:Select, ESC:Escape, L:Line Draw, X:Redraw

```

3j. Select "Volume set function" from the Main Menu to create second Volume#01 from Raid Set#01



3k. Press "ESC" button to go to the next screen



```

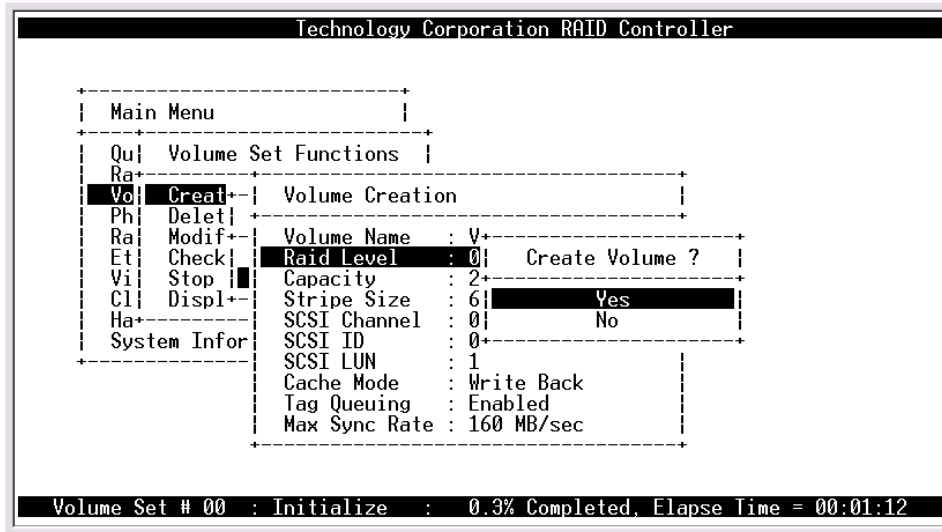
Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions |
-----
| Ra| Creat+| Volume Creation |
| Vo| Delet+| |
| Ph| Modif+| |
| Ra| Check+| Volume Name : Volume Set # 01 |
| Et| Stop | Raid Level : 0+1 |
| Vi| Displ+| Capacity : 245.9GB |
| Cl| | Stripe Size : 64K |
| Ha| | SCSI Channel : 0 |
| System Infor| SCSI ID : 0 |
| | SCSI LUN : 1 |
| | Cache Mode : Write Back |
| | Tag Queuing : Enabled |
| | Max Sync Rate : 160 MB/sec |
-----

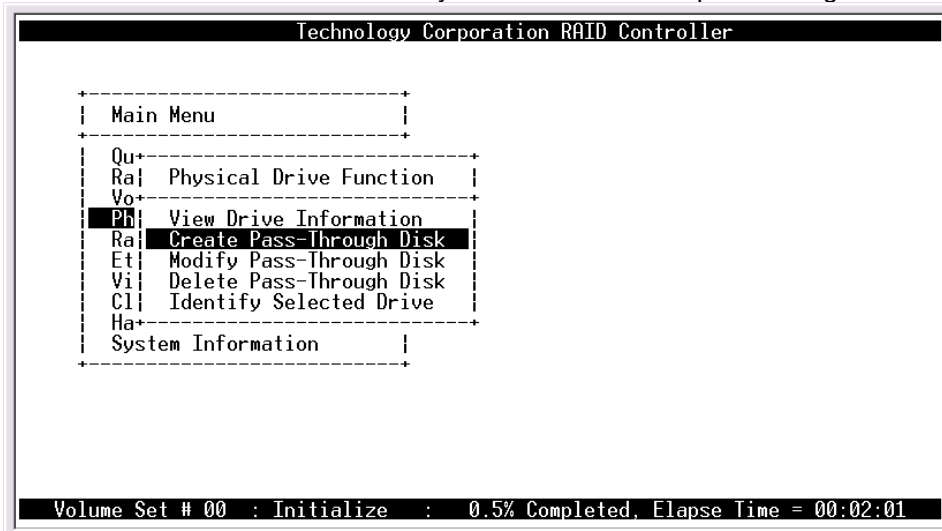
Volume Set # 00 : Initialize : 0.1% Completed, Elapse Time = 00:00:24

```

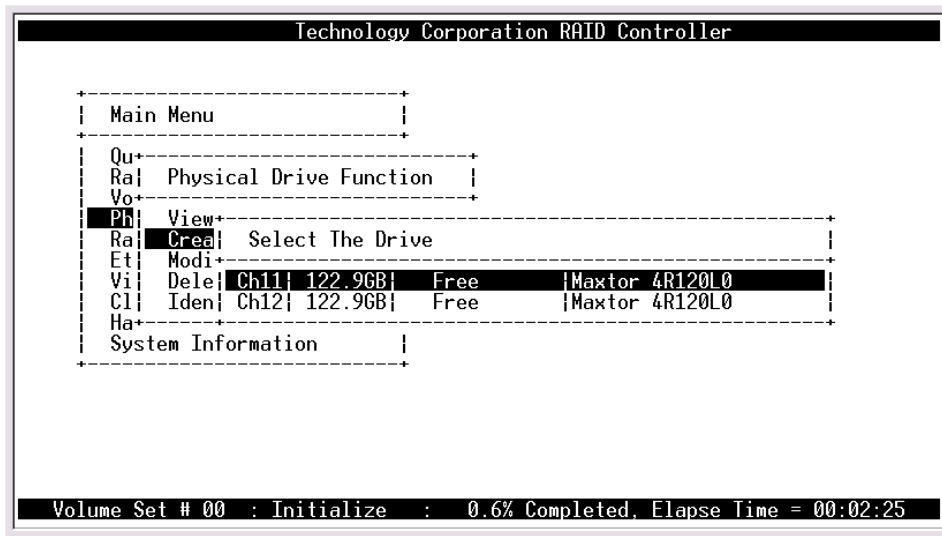
3l. Select "Yes"



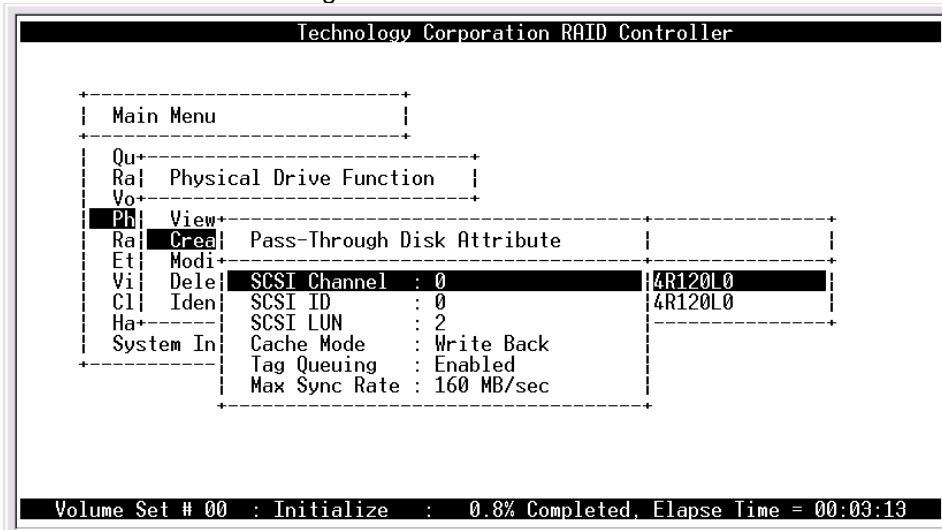
3m. Go to Main menu and select "Physical drive" to create pass-through disk



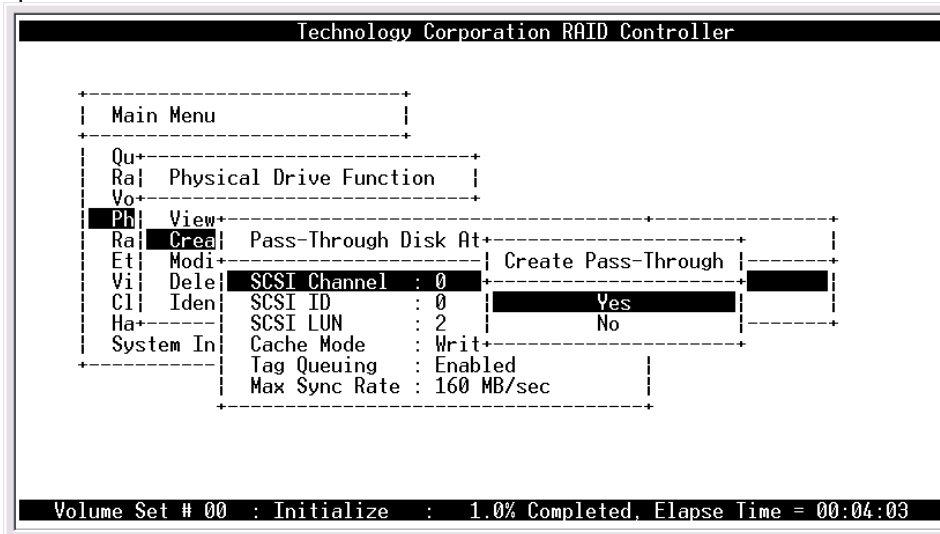
3n. Select IDE disk to create JBOD disk



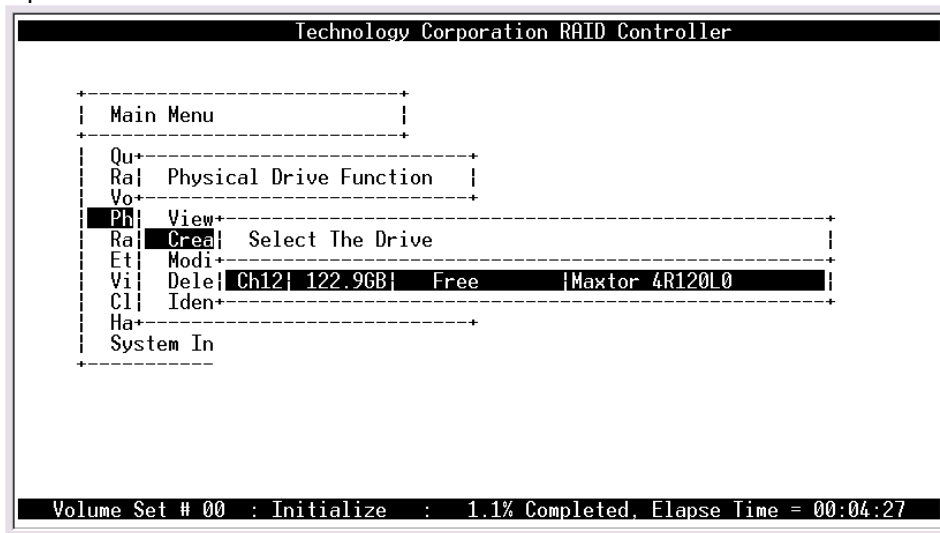
3o. Press "ESC" button to go to the next screen



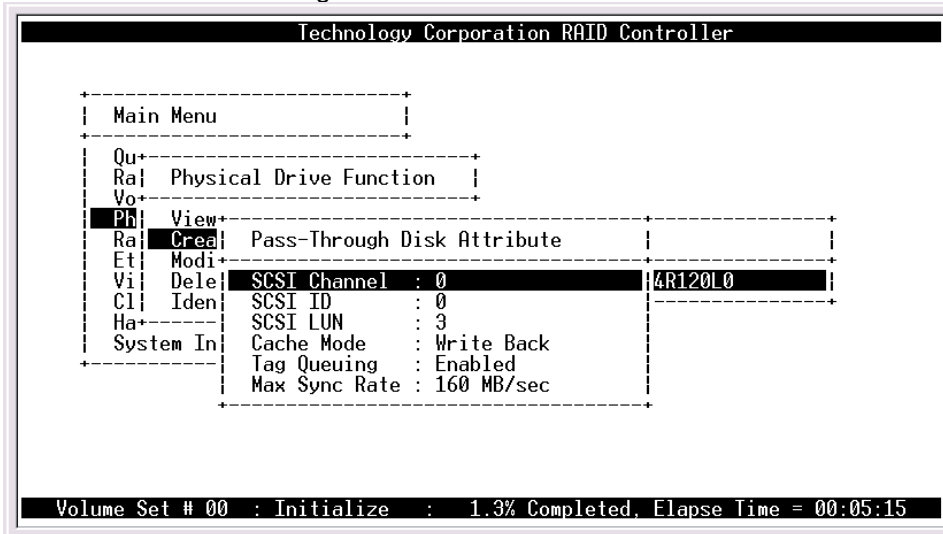
3p. Select "Yes"



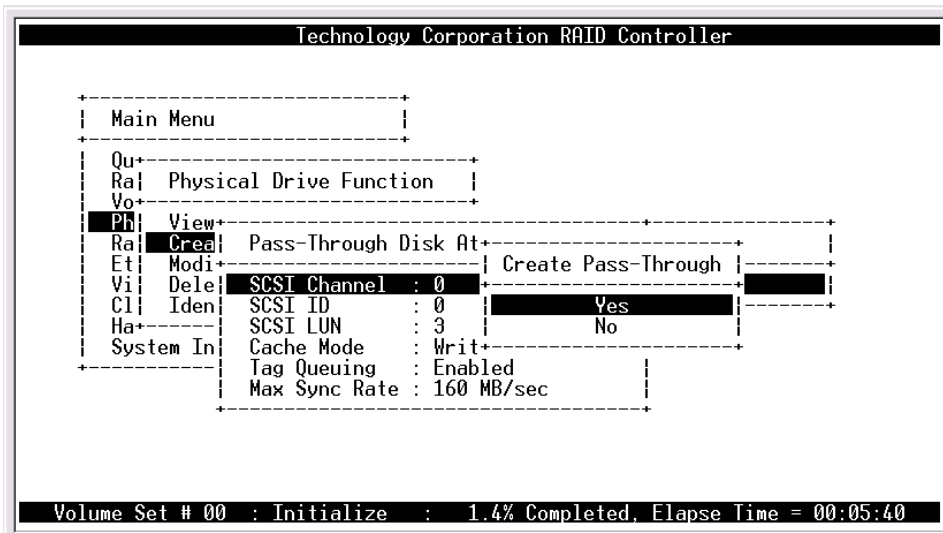
3q. Select IDE disk to create JBOD disk



3r. Press "ESC" button to go to the next screen



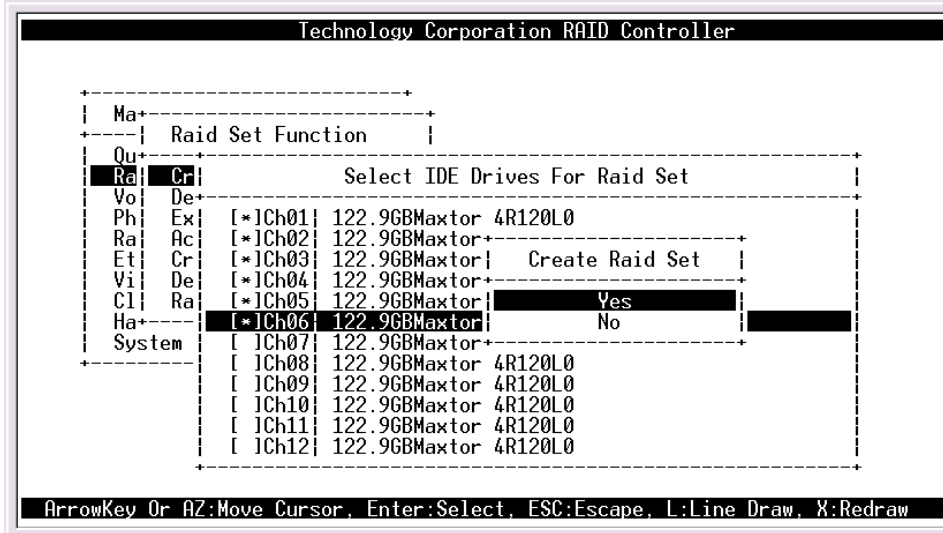
3s. Select "Yes"



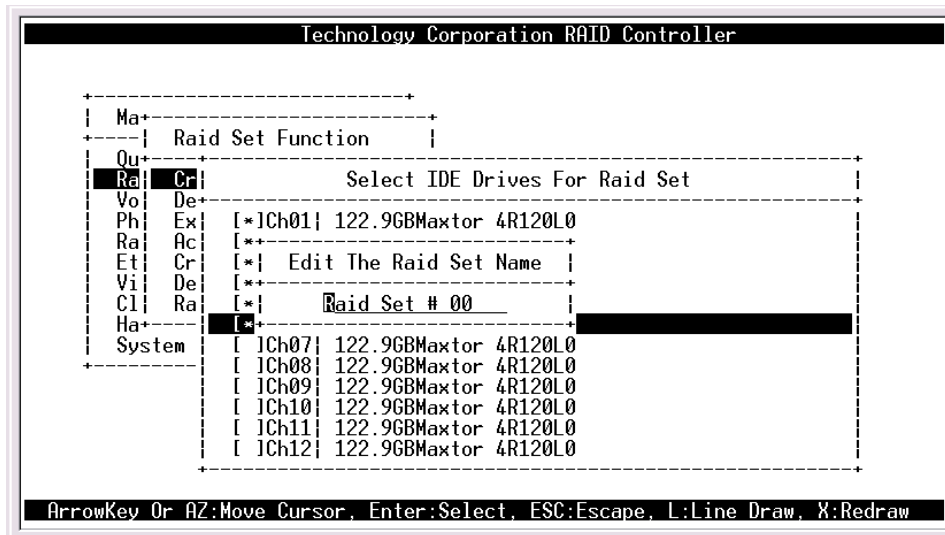
4. Setting Clustering (Redundant Server & HA software Dual Host).

- R6 with 6 disks (volume 0 and 1); R5 with 6 disks (volume 2 and 3)
- Volume-0 (Slice-0) for Database Index, mapped to both two Hosts.
- Volume-1 (Slice-1) for Database Data, mapped to both two Hosts.
- Volume-2 (Slice-2) for local data to Host-A(1), mapped to Host-A(1) only.
- Volume-3 (Slice-3) for local data to Host-B(2), mapped to Host-B(2) only.

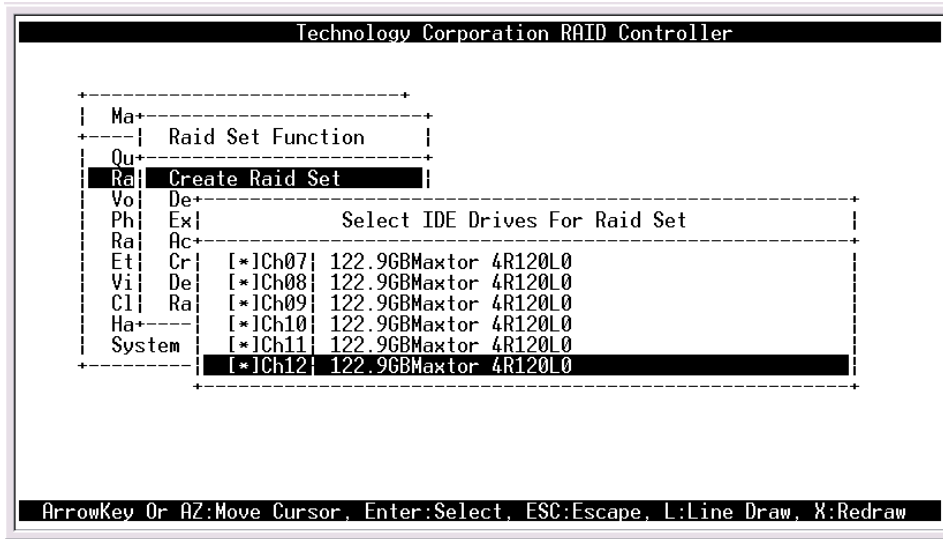
4a. Go to Main Menu and select "Raid set function" to create first RAID Set #00 with 4 disks. Then select "Yes"



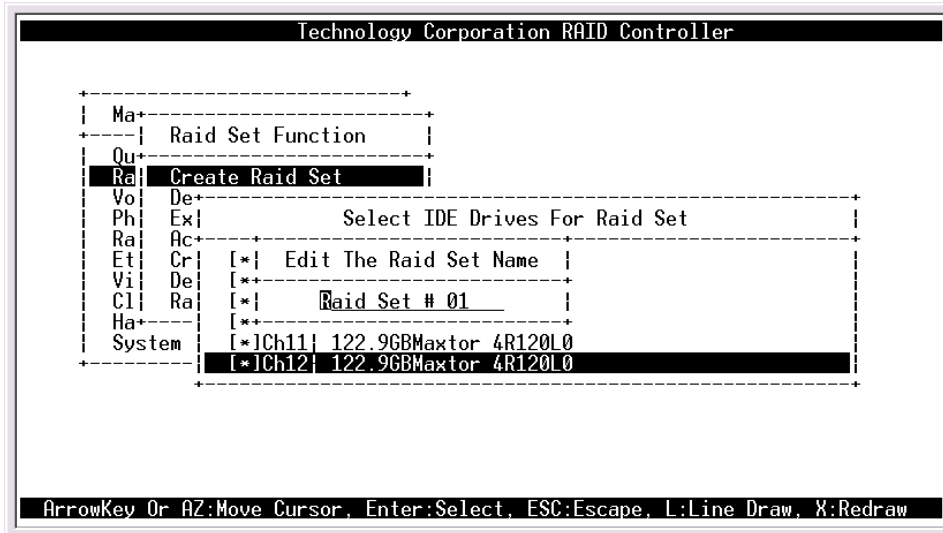
4b. Press "Enter"



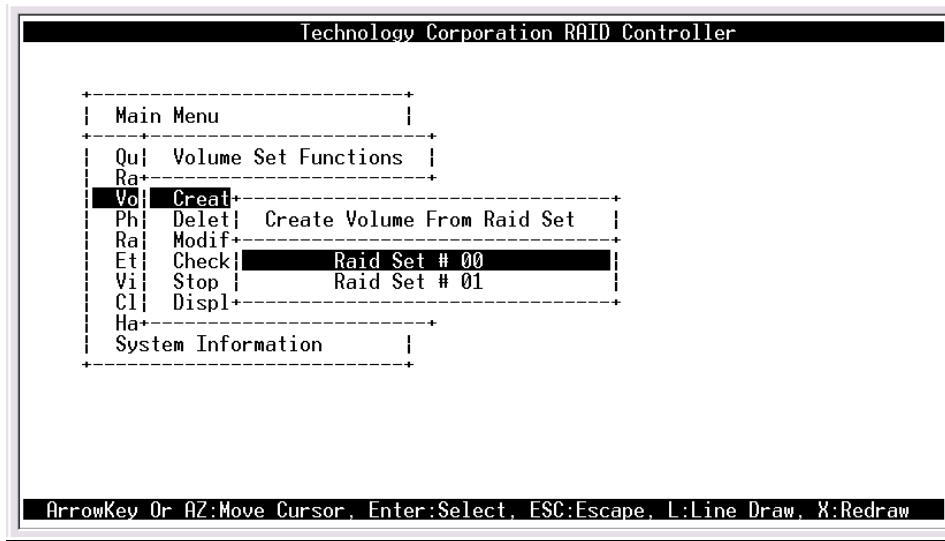
4c. Go to Main Menu and select "Raid set function" to create the second Raid Set #01 with 4 disks. Then select "Yes".



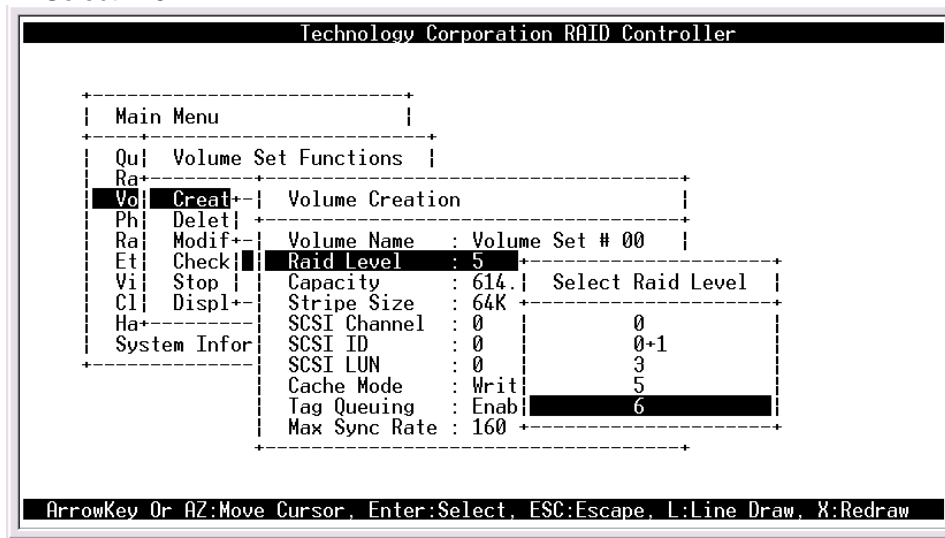
4d. Press "Enter"



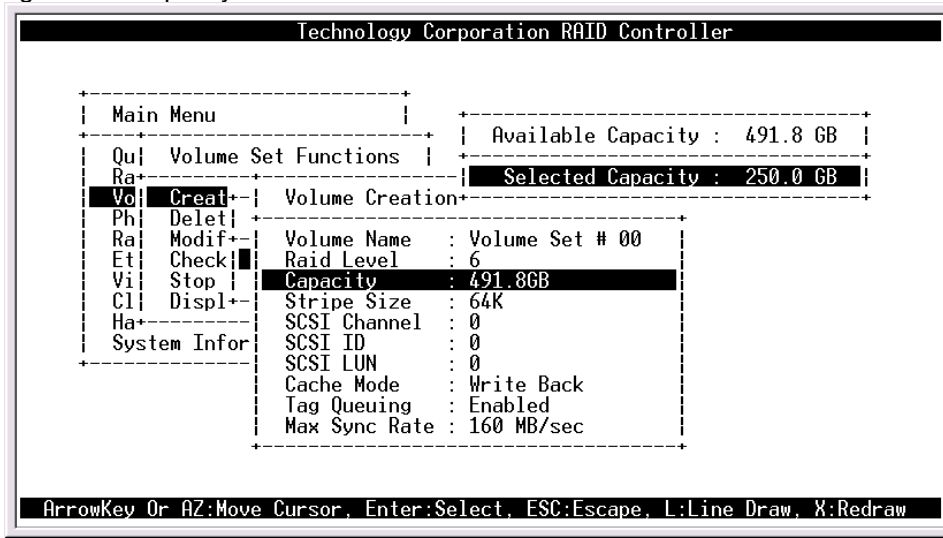
4e. Go to Main menu and select "Volume set function " to create first Volume#00 from Raid Set#00



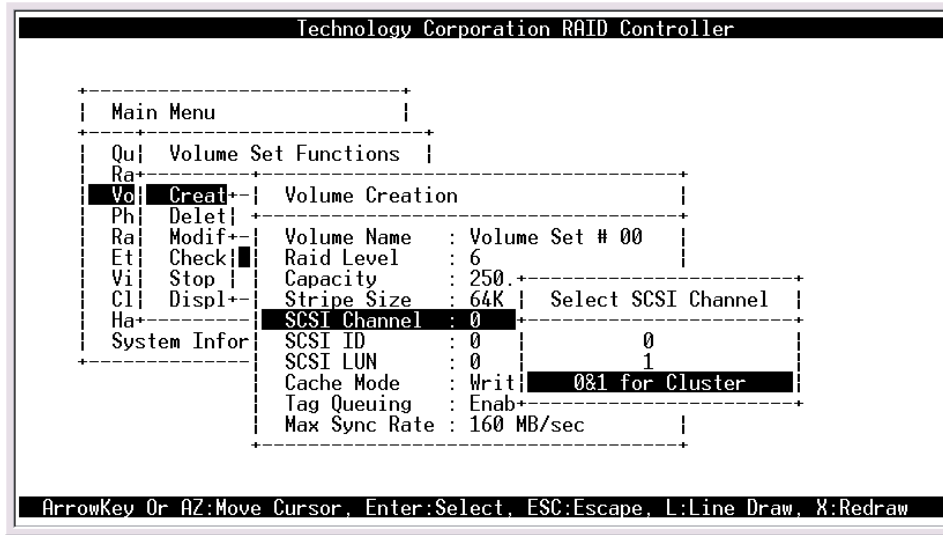
4f. Select "R6"



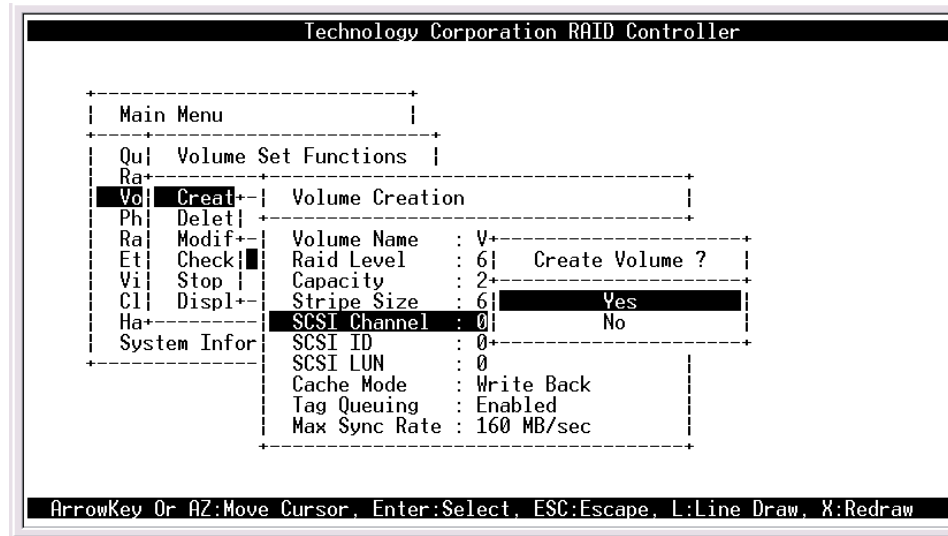
4g. Select Capacity Size



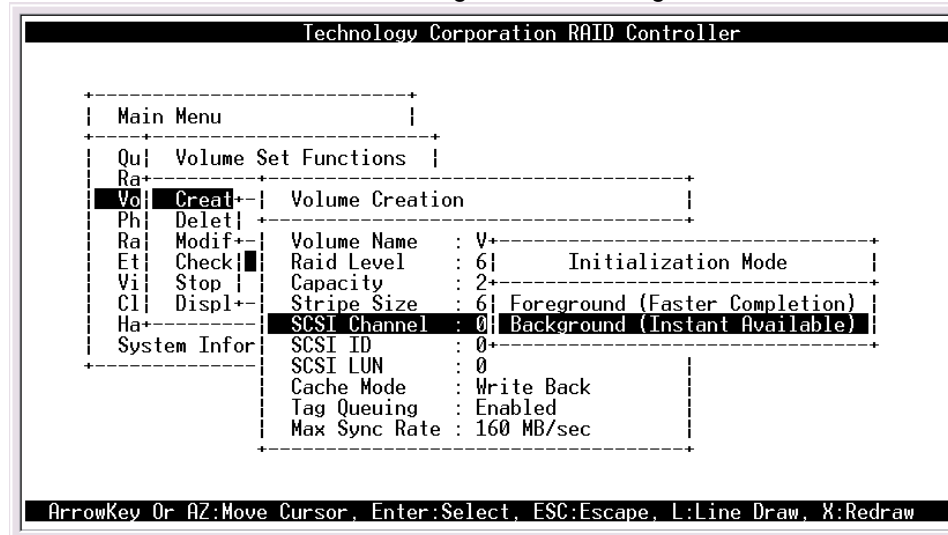
4h. Select "Cluster" to mapped both host



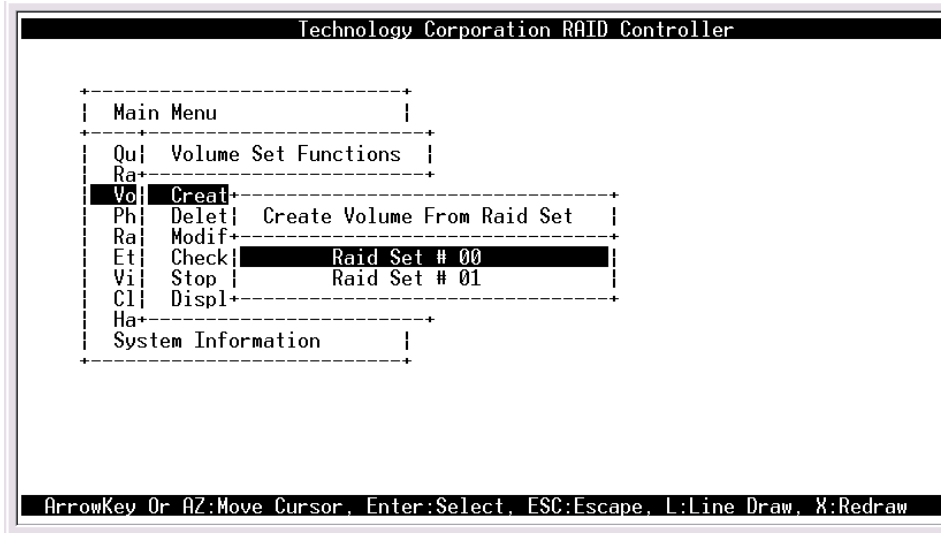
4i. Select "Yes"



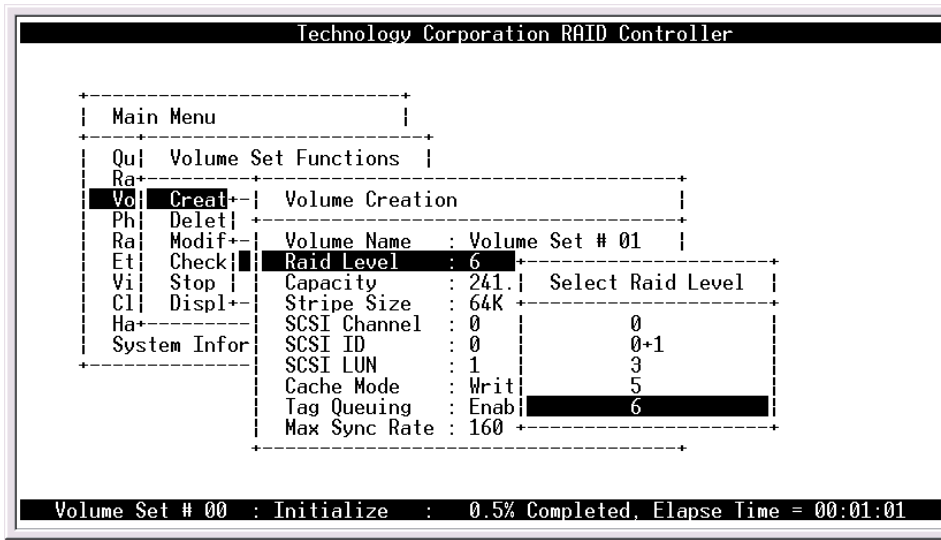
4k. Initialization Mode: Select "Foreground" or "Background"



4l. Go to Main menu and select "Volume set function" to create second Volume#01 from Raid Set#00



4m. Select "R6"



4n. Select "Cluster" to map both host_

```

Technology Corporation RAID Controller

-----+-----
| Main Menu |
+-----+-----
| Qu| Volume Set Functions |
+-----+-----
| Ra+-----+-----
| Vo| Creat+-| Volume Creation | |
| Ph| Delet| |
| Ra| Modif+-| Volume Name : Volume Set # 01 |
| Et| Check|█| Raid Level : 6 |
| Vi| Stop | Capacity : 241 |
| Cl| Displ+-| Stripe Size : 64K | Select SCSI Channel |
| Ha+-----+-----
| System Infor| SCSI Channel : 0 | |
| | SCSI ID : 0 |
| | SCSI LUN : 1 |
| | Cache Mode : Write | 0&1 for Cluster |
| | Tag Queuing : Enab+
| | Max Sync Rate : 160 MB/sec |
+-----+-----

Volume Set # 00 : Initialize : 0.8% Completed, Elapse Time = 00:01:38

```

4o. Select "Yes"

```

Technology Corporation RAID Controller

-----+-----
| Main Menu |
+-----+-----
| Qu| Volume Set Functions |
+-----+-----
| Ra+-----+-----
| Vo| Creat+-| Volume Creation |
| Ph| Delet| |
| Ra| Modif+-| Volume Name : V+-----+-----
| Et| Check|█| Raid Level : 6| Create Volume ? |
| Vi| Stop | Capacity : 2+-----+-----
| Cl| Displ+-| Stripe Size : 6| Yes |
| Ha+-----+-----
| System Infor| SCSI Channel : 0| No |
| | SCSI ID : 0+-----+-----
| | SCSI LUN : 1 |
| | Cache Mode : Write Back |
| | Tag Queuing : Enabled |
| | Max Sync Rate : 160 MB/sec |
+-----+-----

Volume Set # 00 : Initialize : 1.0% Completed, Elapse Time = 00:02:03

```

4p. Initialization Mode: Select "Foreground" or "Background"

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions | | |
| Ra|                         |
| Vo| Creat | Volume Creation |
| Ph| Delet | |
| Ra| Modif | Volume Name : V |
| Et| Check | Raid Level : 6 | Initialization Mode |
| Vi| Stop | Capacity : 2 |
| Cl| Displ | Stripe Size : 6 | Foreground (Faster Completion) |
| Ha|       | SCSI Channel : 0 | Background (Instant Available) |
| System Infor |
| SCSI ID : 0 |
| SCSI LUN : 1 |
| Cache Mode : Write Back |
| Tag Queuing : Enabled |
| Max Sync Rate : 160 MB/sec |
-----

Volume Set # 00 : Initialize : 1.3% Completed, Elapse Time = 00:02:40

```

4q. Go to Main menu and select "Volume set function" to create third Volume#03 from Raid Set#01

```

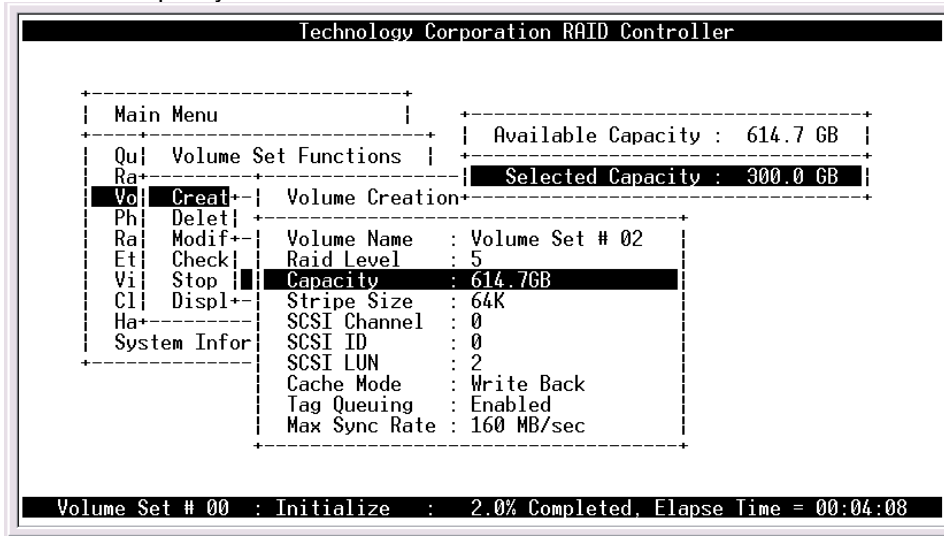
Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions | |
| Ra|                         |
| Vo| Creat | Create Volume From Raid Set |
| Ph| Delet | |
| Ra| Modif | |
| Et| Check | Raid Set # 00 |
| Vi| Stop | Raid Set # 01 |
| Cl| Displ | |
| Ha|       | |
| System Infor |
-----

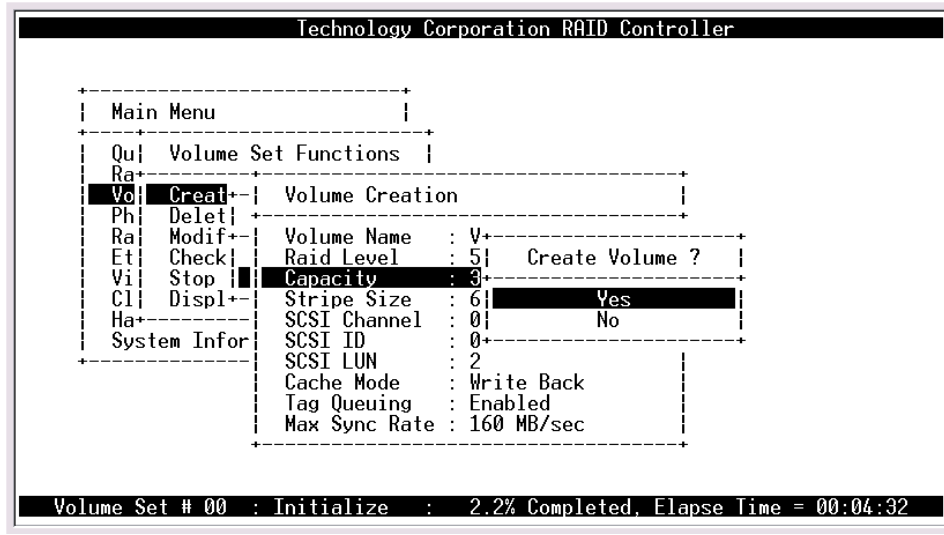
Volume Set # 00 : Initialize : 1.6% Completed, Elapse Time = 00:03:17

```

4r. Select Capacity Size



4s. Select "Yes"



4t. Initialization Mode: Select "Foreground" or "Background"

```

Technology Corporation RAID Controller

-----
| Main Menu |
-----
| Qu| Volume Set Functions | | |
| Ra|                         |
| Vo| Creat+ | Volume Creation |
| Ph| Delet |
| Ra| Modif+ | Volume Name : V+ |
| Et| Check | Raid Level : 5 | Initialization Mode |
| Vi| Stop | Capacity : 3 |
| Cl| Displ+ | Stripe Size : 6 | Foreground (Faster Completion) |
| Ha| System Infor | SCSI Channel : 0 | Background (Instant Available) |
|-----|
| SCSI ID : 0 |
| SCSI LUN : 2 |
| Cache Mode : Write Back |
| Tag Queuing : Enabled |
| Max Sync Rate : 160 MB/sec |
|-----|

Volume Set # 00 : Initialize : 2.5% Completed, Elapse Time = 00:05:09
  
```

4u. Select "1" to mapped host 1

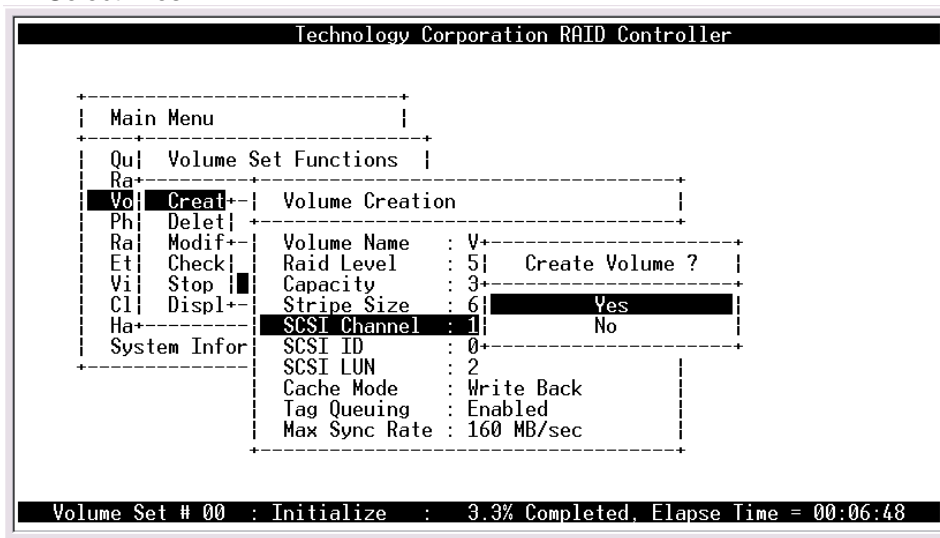
```

Technology Corporation RAID Controller

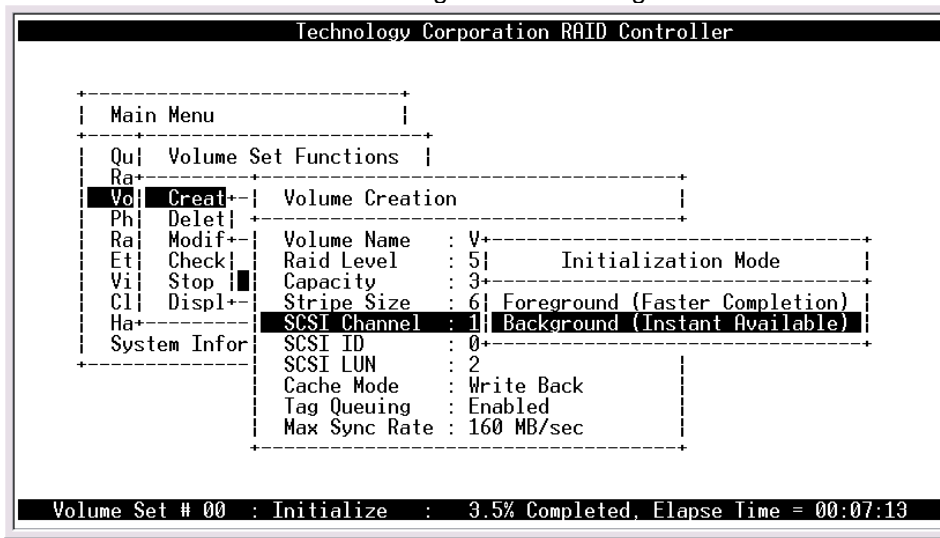
-----
| Main Menu |
-----
| Qu| Volume Set Functions | | |
| Ra|                         |
| Vo| Creat+ | Volume Creation |
| Ph| Delet |
| Ra| Modif+ | Volume Name : Volume Set # 03 |
| Et| Check | Raid Level : 5 |
| Vi| Stop | Capacity : 314 |
| Cl| Displ+ | Stripe Size : 64K | Select SCSI Channel |
| Ha| System Infor | SCSI Channel : 0 |
|-----|
| SCSI ID : 0 |
| SCSI LUN : 3 | 1 |
| Cache Mode : Writ | 0&1 for Cluster |
| Tag Queuing : Enab+ |
| Max Sync Rate : 160 MB/sec |
|-----|

Volume Set # 00 : Initialize : 3.1% Completed, Elapse Time = 00:06:24
  
```

4v. Select "Yes"



4w. Initialization Mode: Select "Foreground" or "Background"



5.Hot-plug JBOD function over 12 disks
(If JBOD will coexist with Multiple RAID, please reference example 3)

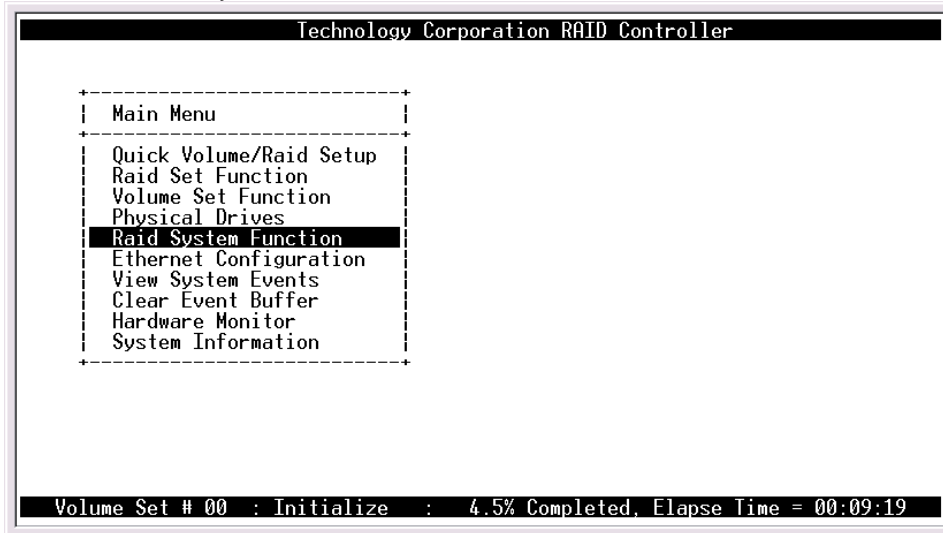
JBOD is an exclusive function with RAID function. If JBOD is selected, all the 12 channels will be mapped to both host 1 and host 2.

Disk Identification:

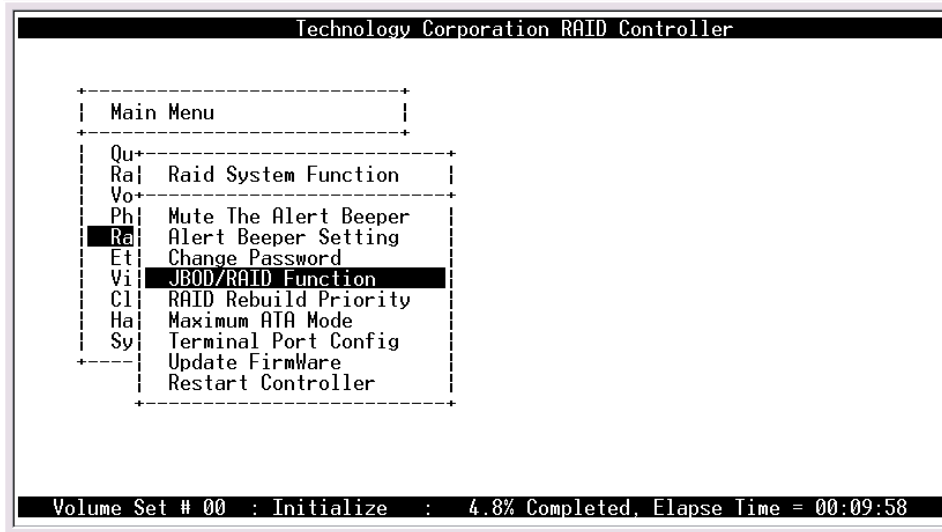
DISK Channel – Host SCSI Channel\SCSI ID\SCSI LUN

IDE Ch1	--	0&1/0/0
IDE Ch2	--	0&1/1/0
IDE Ch3	--	0&1/2/0
IDE Ch4	--	0&1/3/0
IDE Ch5	--	0&1/4/0
IDE Ch6	--	0&1/5/0
IDE Ch7	--	0&1/6/0
IDE Ch8	--	0&1/8/0
IDE Ch9	--	0&1/9/0
IDE Ch10	--	0&1/10/0
IDE Ch11	--	0&1/11/0
IDE Ch12	--	0&1/12/0

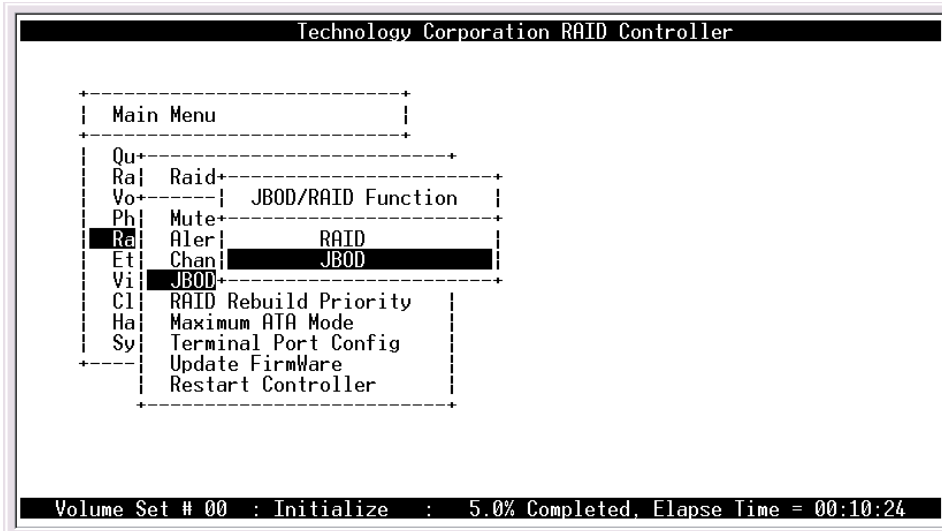
5a. Select "Raid System function" from Main Menu



5b. Select "JBOD/RAID Function"



5c. Select "JBOD"



5d. Press "Enter"

```
Technology Corporation RAID Controller

+-----+
| Main Menu |
+-----+
Qu+-----+
Ra| Raid+-----+
Vo+-----| JBOD/RAID Function |
Ph| Mute+-----+
Ra| Aler| RAID
Et| Chan| JBOD
Vi| JBOD+-----+
Cl| RAID Rebuild Priority |
+-----+
| All RaidSet Must Be Deleted In Order To Be Configured As JBOD |
+-----+
| Restart Controller |
+-----+

Volume Set # 00 : Initialize : 5.3% Completed, Elapse Time = 00:11:02
```