

Appendix C

C.1. bpbconfig for SCO OpenServer

This utility is for the hard disks located in the Backplane Board. *bpbconfig* is also used to change event handling options.

bpbconfig is invoked during BPB Agent installation. It may be invoked at any time by typing *bpbconfig* from a UNIX shell prompt. The executable file is found in the */usr/bin* directory

C.1.1 Running bpbconfig

[illegible]

The utility has the following functions:

Setting

Setting Backplane_Board Quit

State	Ctrl	Type	Ctrl	Ch	ID	Model	Size(MB)	Bd#	Sl#
OK	Mylex		0	0	0	IBM DORS-32160W	2063	0	1
OK	Mylex		0	0	1	Seagate St31051N	1023	0	2

[Test]

[Update]

[Exit]

This function allows the user to set the physical location of hard disks installed in Backplane Board.

Backplane board

Setting Backplane_Board Quit

IBM	DORS-32160W
Seagate	St31051N

Press Any Key to Exit

Utility will show the disks mapping in Backplane Board.

C.1.2 Using bpbconfig

- Use the arrow keys to move the item highlight and press the return key to execute or select the highlighted item.
- Use the TAB key to switch control between the main window and confirm selection window shown at the bottom of screen.
- To quit, select Quit from the main menu and press Enter.

Before the program exits, *bpbconfig* will ask the user to accept their modifications. If the user chooses “Update”, the corresponding files will be updated. Otherwise, if the user chooses “Cancel”, no modification occurs.

Setting Backplane_Board Quit

Do you want to update ?

Update Cancel

After the user updates all modifications, *bpbconfig* will ask the user to restart the BPB Agent.

```
Setting Backplane_Board Quit
+-----+
|                                     |
|   +-----+                       |
|   | Do you want to restart BPB Agent ? |   |
|   +-----+                       |
|                                     |
| Note: If you want BPB Agent to execute correctly, |
|       please choose [Restart] after you finish all |
|       modifications.                             |
|                                     |
+-----+
| [Restart]      [Cancel] |
+-----+
```

C.2. bpbcfg for SCO UnixWare

The *bpbcfg* utility is used to configure the location of the hard disks installed in the Backplane Board slots. *bpbcfg* may be invoked by executing this command at the UNIX shell.

```
# /usr/bpb/bpbcfg
```

C.2.1 Using bpbcfg

- Use <ESC> key to move cursor between menu and form region.
- When cursor is located in form region, use <Tab> key or arrow keys to move cursor around configurable fields, and then edit the values in them.
- Select menu **File/Save** to update configuration file `bpb.conf`.
- Select menu **File/Exit** to quit from *bpbcfg*.

```
BackPlane Board Configuration Utility (bpbcfg)

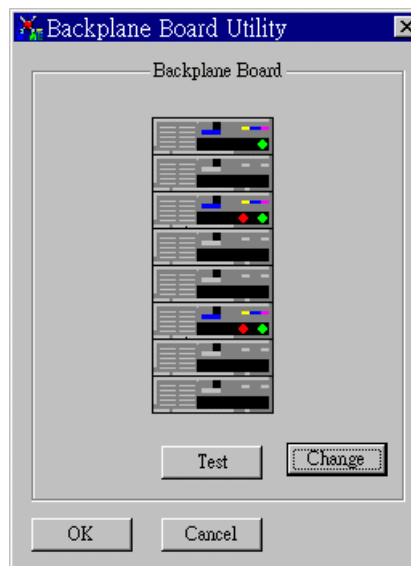
File
-----+-----
Disk.....BPB..
[Stat|CtrlType   :Ctl:Ch:ID|Vendor    Model          Sz(MB)]->[Bd:Sl] Save?
=====
??? Mylex           0 0 0                      [ ] |
??? Mylex           0 1 1                      1 1 [ ] |
??? Mylex           0 1 2                      1 7 [ ] |
??? Adaptec         0 0 0                      0 1 [ ] |
??? Adaptec         0 1 7                      1 6 [ ] |
-----+-----

: [DiskCtrlType:ControllerNo:ChannelNo:TargetID] -> BpbBoard#:Slot#
```

bpbcfg will list all hard disks connected to the found disk array controllers. Each of these hard disks is identified by the controller type name, controller number, channel number, and target ID. The user have to fill out the Backplane Board number and the slot number -- the disk location in the Backplane Board slots. With this location information, BPB agent *bpbsmxd* then can correctly reflect the disk status on the Backplane Board.

C.3. bpbcfg for Windows NT

The *bpbcfg* utility shows you the status of each hard disk drive or drives connected to the Backplane Board of your server if you have one or two for that matter. You can also change the hard drive's location and slots along the Backplane Board or Boards using this utility.



This figure shows a single BackplaneB. If your server is operating two Backplane Board, the utility will likewise display two Backplane Boards with the necessary hard drive or drives available.

The red light indicates whether the hard drive is in good condition or not:



If only the green light appears, the hard disk drive is doing OK.



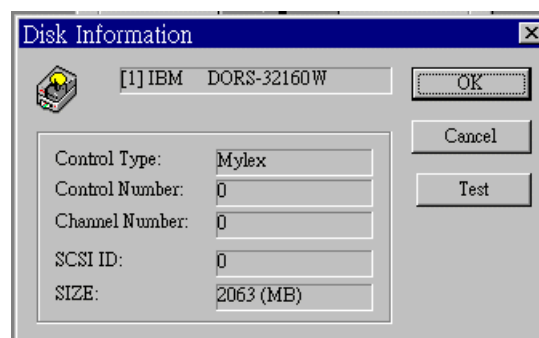
If the red light appears, then something's wrong with the hard disk drive.



If no lights appears, then no hard disk drive is connected to the slot.

C.3.1 Displaying Hard Disk Drive Information

To view the hard disk drive info on the Backplane Board, simply click one of the Backplane Board slots with an available hard disk drive. The hard disk drive info displays.



The **Test** button shows you the position of the hard disk drive by flashing the light in the Backplane Board Utility window.

C.3.2 Testing the Backplane Board

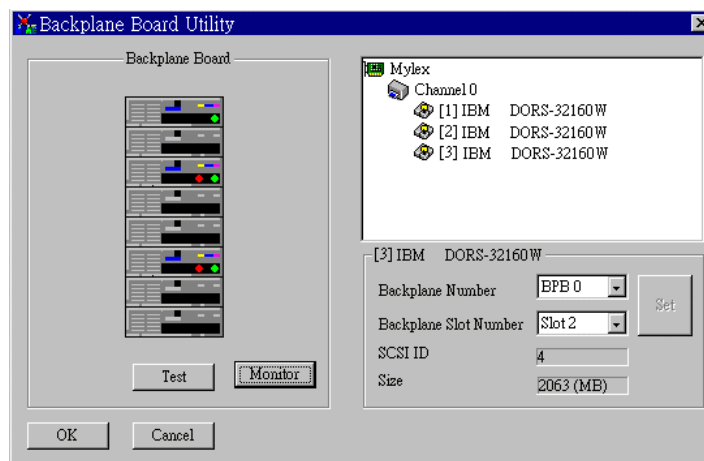
The **Test** button will flash all the lights on the slot with an available hard disk drive in the Backplane Board. If the slot or slots is not blinking then it means that there's no hard disk drive attached to it.

To start testing, click the **Test** button. You'll notice the slots with an available hard disk drive blinking. To stop testing, click the **Test** button again.

C.3.3 Changing the location and slots of hard disk drive along the Backplane Board.

You can change the position of the hard disk drive along the Backplane Board panel.

Click the **Change** button, the following window appears.



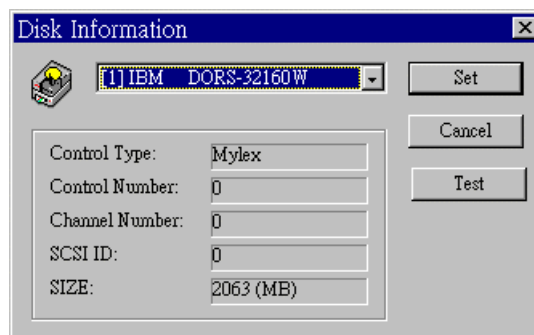
The Backplane Board Utility window will extend and show the display window. Below it shows the current location of the hard disk drive. The display window shows all the available hard disk drive currently connected to the Backplane Board or Boards.

To change the location of the hard disk drive:

1. Click the hard disk drive you want to change on the display window. You will notice that the current location of that hard disk drive will be displayed.
2. Choose a new location by using the drop down menu.
3. Click the **Set** button to confirm the changes.

C.3.4 Monitoring Hard Disk Drive

The **Monitor** button shows the current state of the hard disk drive. To monitor a hard disk drive, click the **Monitor** button. The following screen displays.



Click the drop down menu to choose among the available hard disk drive. Click **Set** to save changes.

C.4. BPB Console for NetWare

The Back Plane Board Console is used to monitor disks' status and edit board/slot setting.

C.4.1 Running BPB Console

At the system console prompt on your NetWare server, enter the command "load bpbcfg" to run this program.

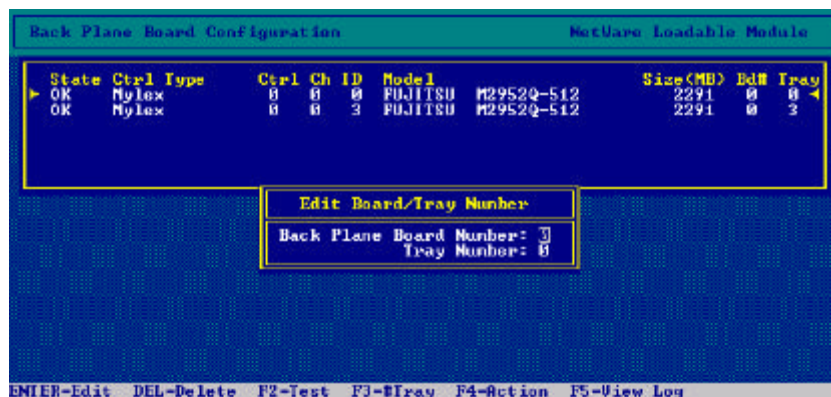
Most of the time you don't have to manually load this program. It is auto-loaded by other programs in AUTOEXEC.NCF at server boot time. You can press ALT-ESC or CTRL-ESC to switch to the screen like the following:

State	Ctrl Type	Ctrl Ch	ID	Model	Size(MB)	Ed#	Tray
OK	Mylex	0	0	FUJITSU M2952Q-512	2291	0	0
OK	Mylex	0	3	FUJITSU M2952Q-512	2291	0	3

This console screen displays all the information of hard disks currently monitored by BPB Agent. You can also edit the board/slot setting here.

Press ENTER to Edit

A pop-up window appears allowing you to enter or edit the board number and slot number of back plane board where the disk is located. This screen is shown as follows:



Press F2 to Flash LED

After you edit the board/slot number, you can press F2 to flash the LED on disk tray. This help you identify the disk being configured.