

## **Appendix B**

# ***ASM Pro Mylex RAID and BPB Utility***

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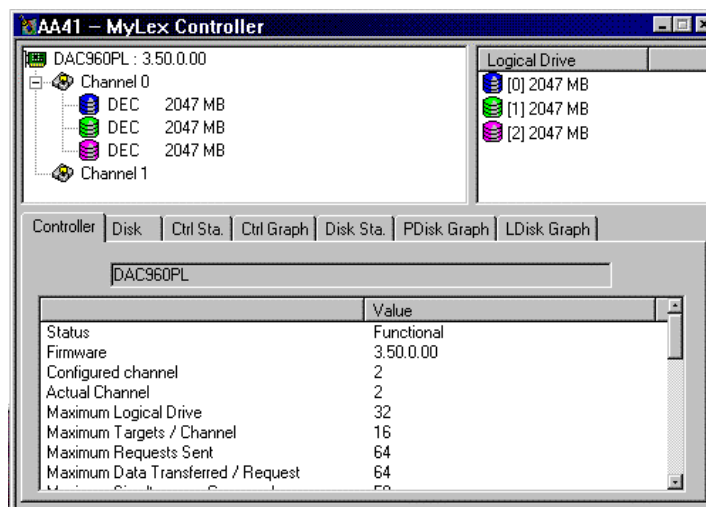
The basic idea behind Redundant Array of Inexpensive Disk (RAID) was to combine multiple small, inexpensive disk drives into an array of disk drives which yields performance exceeding that of a Single Large Expensive Drive (SLED). These array of drives appears to the computer as a single logical storage unit or drive. This utility monitors the RAID Controller Information and functions. This utility also monitors Backplane Board (BPB).

The sections below gives a brief description of the utility.

## **B.1. Mylex RAID Controller Monitor**

### **Window**

This Window is used to monitor the Mylex RAID Controller Information. In the Upper Left Window display the hierarchical view of the controller structure, and the upper right window is the logical drive information. The window on the next page is the tab for all the different info and tab description.



### B.1.1 Controller Tab

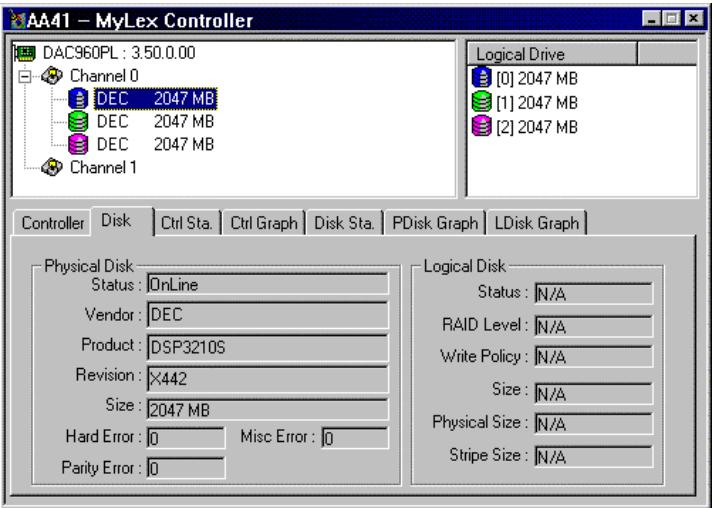
This Window is used to monitor the Mylex RAID Controller Information. In this tab the displayed information is as below:

Terms	Description
Status	The Controller Status
Firmware	The firmware version
Configured Channel	The Number of Configured Channel
Actual Channel	The Number of Actual Channel
Max Logical Drive	Max Number of Logical Drive
Max Target/Channel	Max Number of Target/Channel
Max Request Send	Max Number of Request Send
Max Data Request/Transfer	Max Number of Data Request/Transfer
Max Simultaneous Command	Max Number of Simultaneous Command
Rebuild Rate	Rebuild Rate
Logical Sector Size	Logical Sector Size

Terms	Description
Physical Sector Size	Physical Sector Size
Cache Line Size	Cache Line Size
Cache Module Size	Cache Module Size
EPROM Module Size	Size of the EPROM Module
BUS Type	BUS Type
Controller Class	Controller Class
Controller Model	Controller Model
System BUS Number	System BUS Number
Interrupt Vector Number	Interrupt Vector Number
Interrupt Mode	Interrupt Mode
Number of Physical Drive	Number of Physical Drive
Number of off-line Physical Drive	Number of off-line Physical Drive
Number of Logical Drive	Number of Logical Drive
Number of Critical Logical Drive	Number of Critical Logical Drive
Number of off-line Logical Drive	Number of off-line Logical Drive
Fault Management Type	The Fault Management Type this controller is currently using

### B.1.2 Disk Tab

This Window is used to monitor the Mylex RAID Controller Disk Information. In this tab the displayed information is as below:

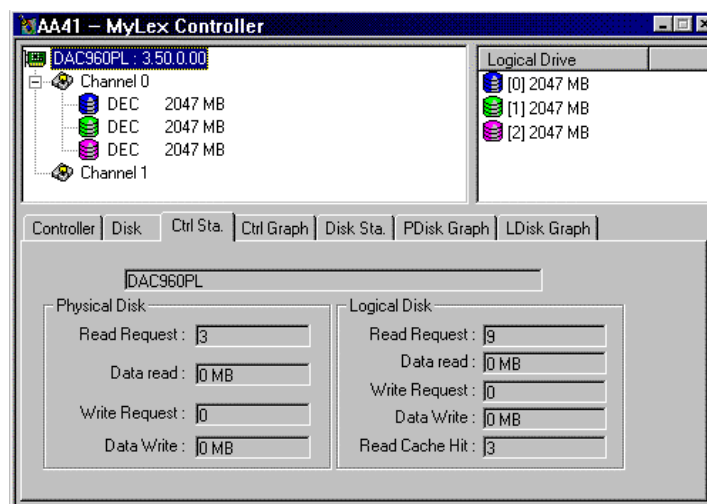


Terms	Description
Physical Disk	
Status	The status of the physical drive
Vendor	The Vendor of the drive
Product	The product name of the drive
Revision	The revision number of the drive
Size	The size of the drive
Hard Error	The hadr error count of the drive
Misc. Error	The Misc. Error count of the drive
Parity Error	The parity error count of the drive

Terms	Description
<b>Logical Drive</b>	
Status	The status of the logical drive
RAID Level	The RAID Level of the drive
Write Policy	Write Policy
Size	Size
Physical Size	Physical Size
Stripe Size	Physical Size

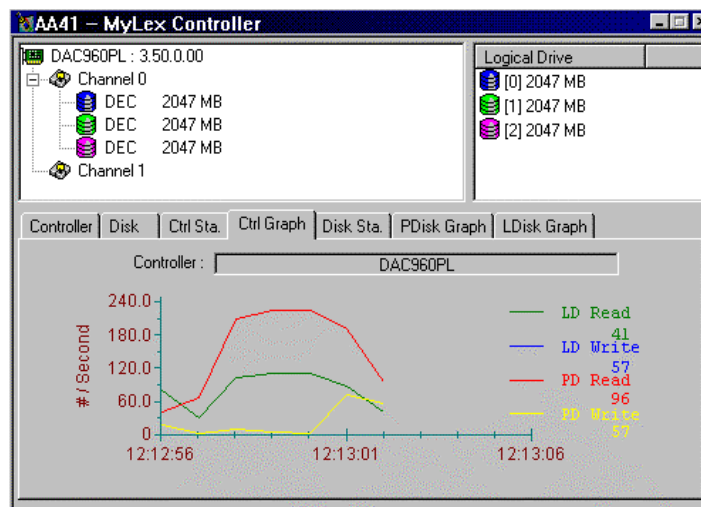
### B.1.3 Controller Statistic Tab

This Window is used to monitor the Mylex RAID Controller Statistic Information. In this tab the displayed information is as below:



Terms	Description
<b>Physical Disk</b>	
Read Request	The Read Request Count
Data Read	The Data read count in MB
Write Request	The Write Request Count
Data Write	The Data write count in MB
<b>Logical Drive</b>	
Read Request	The Read Request Count
Data Read	The Data read count in MB
Write Request	The Write Request Count
Data Write	The Data write count in MB
Read Cache Hit	The Read request get in cache buffer

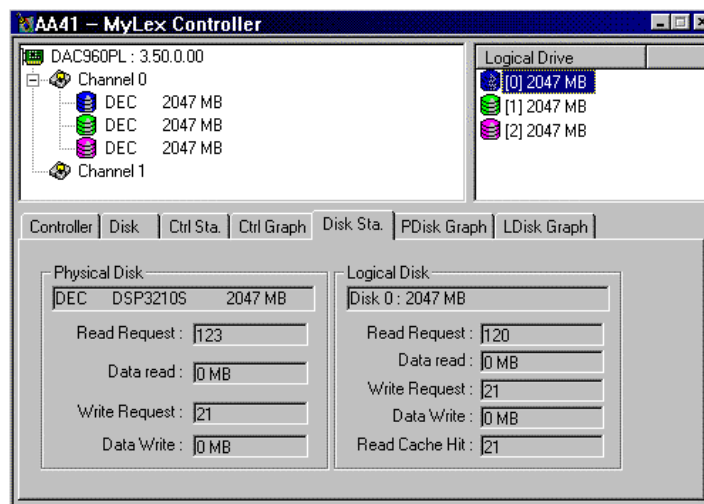
### B.1.4 Controller Statistic Graphic Tab



Terms	Description
LD Read	Logical Drive Read Count
LD Write	Logical Drive Write Count
PD Read	Physical Drive Read Count
PD Write	Physical Drive Write Count

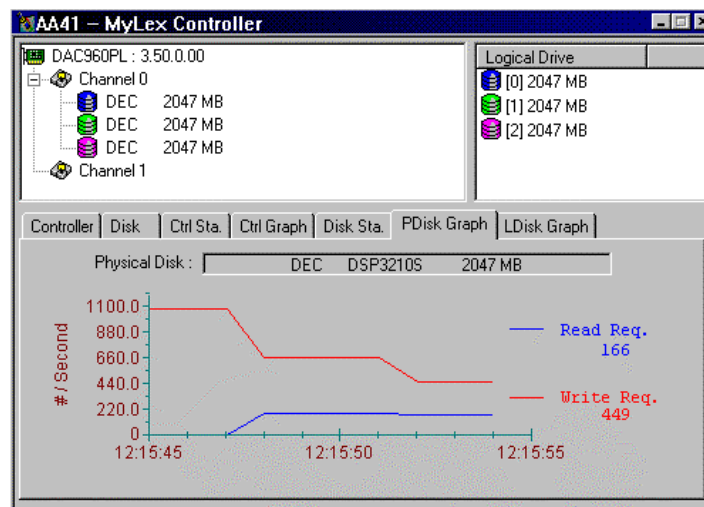
### B.1.5 Disk Statistic Tab

This Window is used to monitor the Mylex RAID Controller Disk Statistic Information. In this tab the displayed information is as below:



Terms	Description
<b>Physical Disk</b>	
Read Request	The Read Request Count
Data Read	The Data read count in MB
Write Request	The Write Request Count
Data Write	The Data write count in MB
<b>Logical Drive</b>	
Read Request	The Read Request Count
Data Read	The Data read count in MB
Write Request	The Write Request Count
Data Write	The Data write count in MB
Read Cache Hit	The Read request get in cache buffer

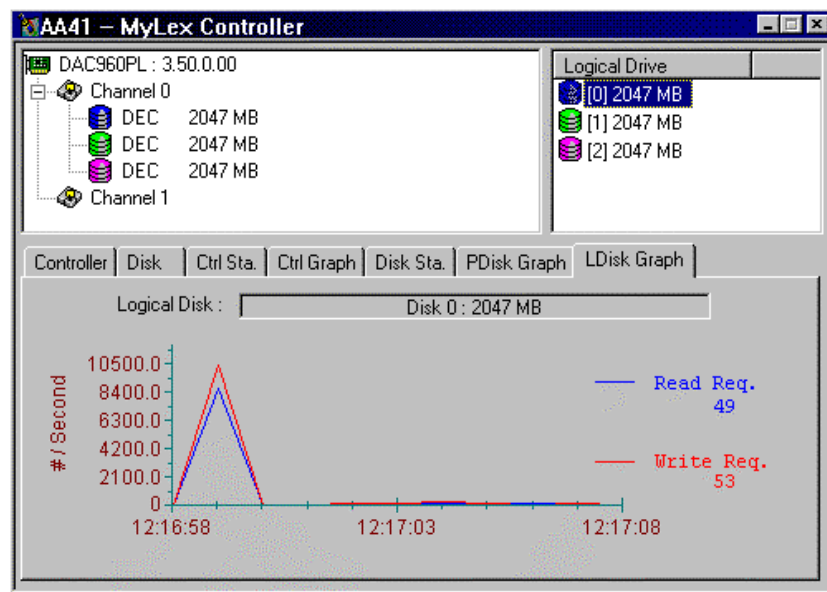
## B.1.6 Physical Disk Statistic Graph Tab





Terms	Description
Read Request	The Read Request Count
Data Read	The Data read count in MB

### B.1.7 Logical Disk Statistic Graph Tab



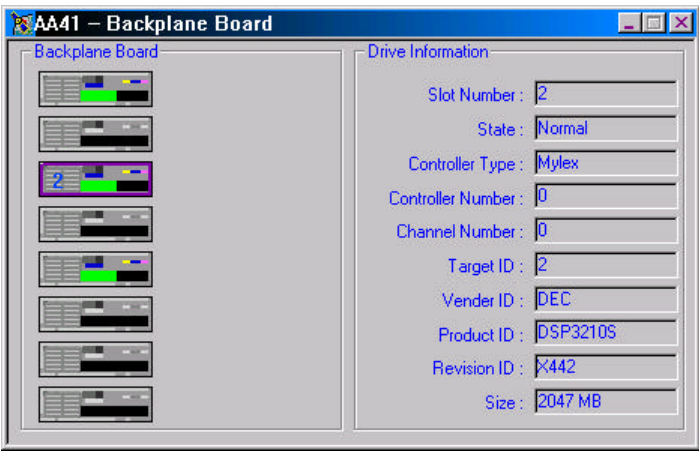
Terms	Description
Read Request	The Read Request Count of the Logical Drive
Write Request	The Write Request Count of the Logical Drive

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## B.2. BackPlane Board Monitor Window

Backplane Board utility is a graphical representation of the server housing Disk Array Backplane layout. It can show you how many BPB are installed in this machine, how many disks are installed in the BPB and the disk information and status.

At the left hand side is the BPB layout, and the right hand side is the current selected disk information.



### B.2.1 Icon Description

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



If the green light appears, the hard disk is normal.



If the red light appears, the hard disk failed.



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

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## B.2.2 Drive Information

Terms	Description
Slot Number	The Slot Number the disk is located
State	The Status of the Disk
Controller Type	The Controller Type
Controller Number	The Controller ID Number the Disk is located
Channel Number	The Channel ID Number the Disk is located
Target ID	The Disk's target ID
Vendor ID	The Disk's Vendor ID
Product ID	The Disk's Product ID
Revision ID	The Disk's revision ID
Size	The Disk size in MB