

HP Multi Port SAS Controller RAID Array Volume Activation Instructions.

1. At EFI shell prompt, type “drivers -b”.

Look for the driver name “LSI Logic Fusion MPT SAS Driver” and note down the DriverHandle (DRV#). The DriverHandle is 1B in the example shown below.

```

D          T   D
R          Y   C   I
U          P   F   A
VERSION   E   G   G   #D   #C   DRIVER NAME           IMAGE NAME
==  =====  ==  ==  ==  ==  =====
16 00000020 B - - 6 15 PCI Bus Driver           PciBus
1B 02010400 B X X 1 5 LSI Logic Fusion MPT SAS Driver      PciROM:01:01:00:001
1C 00000254 D - - 1 - Smart Array SAS Driver v2.54      PciROM:03:00:00:001
1D 00000254 D - - 1 - Smart Array SAS Driver v2.54      PciROM:05:00:00:001
1E 00000020 D X - 1 - Usb Keyboard Driver           UsbKb
1F 00000020 ? - - - - Usb Mouse Driver           UsbMouse
20 00000020 ? - - - - Usb Cbi0 Mass Storage Driver      UsbCbi0
21 00000020 ? - - - - Usb Cbi1 Mass Storage Driver      UsbCbi1
22 00000010 ? - - - - UGA Console Driver           GraphicsConsole
23 00000000 D - - 1 - PCI UGA Mini Port Driver      PciUgaMiniPort
24 00000010 D - - 1 - UGA Class Driver           UgaClassDriver
25 00000013 B - - 1 1 Serial 16550 UART Driver      Serial16550
26 00000010 B - - 1 1 Serial Terminal Driver      Terminal
27 00000010 D - - 2 - Platform Console Management Driver  ConPlatform
28 00000010 D - - 2 - Platform Console Management Driver  ConPlatform
29 00000010 B - - 2 2 Console Splitter Driver      ConSplitter
2A 00000010 ? - - - - Console Splitter Driver      ConSplitter
2B 00000011 B - - 2 2 Console Splitter Driver      ConSplitter
2C 00000011 B - - 2 2 Console Splitter Driver      ConSplitter
Press ENTER to continue, 'q' to exit:
  
```

2. At EFI shell, type “drvcfg -s < DriverHandle>”.

e.g. Type “drvcfg -s 1B” at EFI shell to choose the controller with DriverHandle 1B.

3. Highlight the controller and press <ENTER>

```

LSI Logic MPT Setup Utility <2006.11.1> 2.01.04.00
Adapter List
Adapter      PCI   PCI   PCI   FW Revision      Status
              Bus  Dev  Fnc
SAS1068     01   01   00   1.23.33.00-IR    Enabled
  
```

Esc = Exit Menu F1/Shift+1 = Help
Enter = Adapter Properties

- Highlight RAID Properties and press <ENTER>

```

LSI Logic MPT Setup Utility <2006.11.1> 2.01.04.00
Adapter Properties -- SAS1068

Adapter          SAS1068
PCI Address<Bus/Dev/Func> 01:01:00
MPT Firmware Revision 1.23.33.00-IR
SAS Address      50060000:0001C270
Status           Enabled
Boot Support     [Enabled BIOS & OS]

RAID Properties
SAS Topology
Advanced Adapter Properties

Esc = Exit Menu      F1/Shift+1 = Help
Enter = Select Item  -/+ = Change Item
  
```

- Highlight View Existing Array and press <ENTER>

```

LSI Logic MPT Setup Utility <2006.11.1> 2.01.04.00
Select New Array Type -- SAS1068

View Existing Array. View the existing configuration.

Create IM Volume Create Integrated Mirror Array of 2
                  disks plus an optional hot spare. Data
                  on the primary disk may be migrated.

Esc = Exit Menu      F1/Shift+1 = Help
Enter = Choose array type to create  Esc = Return to Adapter Properties
  
```

- If you have more than 1 RAID arrays, press N to select the Array then highlight Manage Array and press <ENTER>.

```

LSI Logic MPT Setup Utility <2006.11.1> 2.01.04.00
View Array -- SAS1068
Array 1 of 2
Identifier
Type IM
Scan Order ---
Size(MB) 34332
Status Inactive

Manage Array

Slot Num Device Identifier RAID Disk Hot Spr Drive Status Pred Fail Size (MB)
1 HP DG146ABAB4 HPD5 Yes No Inactive No 34332
8 HP DG036A8B5B HPD4 Yes No Inactive No 34332
6 HP DG036A8B5B HPD4 No Yes Inactive No 34732

Esc = Exit Menu      F1/Shift+1 = Help
Enter=Select Item  N=Next Array C=Create an array
  
```

7. Highlight Activate Array and press <ENTER>.

```
LSI Logic MPT Setup Utility <2006.11.1> 2.01.04.00
Manage Array -- SAS1068

Identifier
Type                IM
Scan Order          ---
Size(MB)            34332
Status              Inactive

Manage Hot Spare

Synchronize Array

Activate Array_
Delete Array

Esc = Exit Menu      F1/Shift+1 = Help
Enter = Select Item
```

8. Press Y to active array then press a sequence of <ESC>'s to exit out to EFI shell.

```
LSI Logic MPT Setup Utility <2006.11.1> 2.01.04.00
Manage Array -- SAS1068

Y      Activate array and exit this menu
N      Abandon array activation and exit this menu

Esc = Exit Menu      F1/Shift+1 = Help
Enter = Select Item
```

9. Repeat Steps 1 through 8 to activate other volumes.