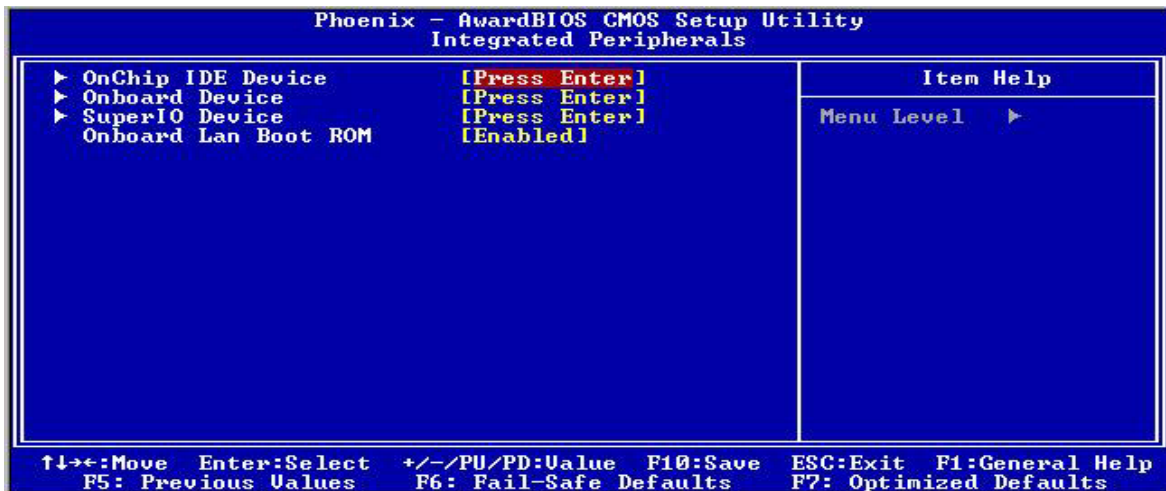
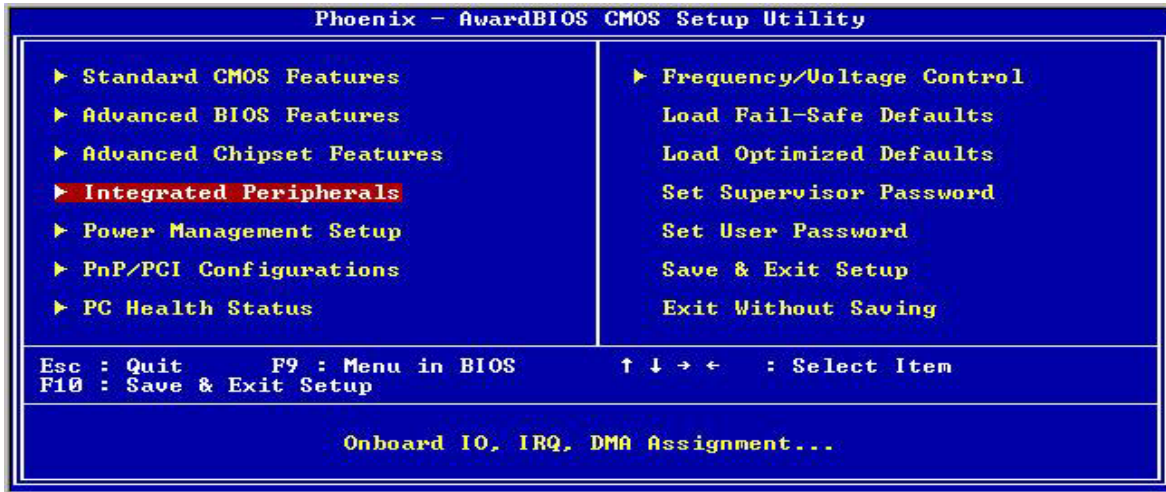


How to Create the SATA RAID for SATA RAID Support Motherboards

1. BIOS Setup:

Integrated Peripherals → On Chip IDE Device → On Chip Serial ATA → Enhanced Mode → SATA Mode → RAID



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Phoenix - AwardBIOS CMOS Setup Utility
OnChip IDE Device

IDE HDD Block Mode      [Enabled]
IDE DMA transfer access [Disabled]
On-Chip Primary PCI IDE [Enabled]
IDE Primary Master PIO  [Auto]
IDE Primary Slave PIO   [Auto]
IDE Primary Master UDMA [Auto]
IDE Primary Slave UDMA  [Auto]
On-Chip Secondary PCI IDE [Enabled]
IDE Secondary Master PIO [Auto]
IDE Secondary Slave PIO  [Auto]
IDE Secondary Master UDMA [Auto]
IDE Secondary Slave UDMA [Auto]

*** On-Chip Serial ATA Setting ***
SATA Mode                [IDE]
On-Chip Serial ATA       [Auto]
Serial ATA Port0 Mode    [SATA0 master]
Serial ATA Port1 Mode    SATA1 master

Item Help
Menu Level  >>>

[Disabled]: Disabled
SATA Controller.
[Auto]: Auto arrange
by BIOS.
[Combined Mode]: PATA
and SATA are combined
. Max.of 2 IDE drives
in each channel.
[Enhanced Model]:
Enable both SATA and
PATA. Max.of 6 IDE
drives are supported.
[SATA Only]: SATA is
operating in legacy
mode.

↑↓←→:Move  Enter:Select  +/-/PU/PD:Value  F10:Save  ESC:Exit  F1:General Help
F5: Previous Values  F6: Fail-Safe Defaults  F7: Optimized Defaults
  
```

```

Phoenix - AwardBIOS CMOS Setup Utility
OnChip IDE Device

IDE HDD Block Mode      [Enabled]
IDE DMA transfer access [Disabled]
On-Chip Primary PCI IDE [Enabled]
IDE Primary Master PIO  [Auto]
IDE Primary Slave PIO   [Auto]
IDE Primary Master UDMA [Auto]
IDE Primary Slave UDMA  [Auto]
On-Chip Secondary PCI IDE [Enabled]
IDE Secondary Master PIO [Auto]
IDE Secondary Slave PIO  [Auto]
IDE Secondary Master UDMA [Auto]
IDE Secondary Slave UDMA [Auto]

*** On-Chip Serial ATA Setting ***
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Serial ATA Port0 Mode    [SATA0 master]
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Enable both SATA and
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mode.

On-Chip Serial ATA
Disabled      ..... [ ]
Auto          ..... [ ]
Combined Mode ..... [ ]
Enhanced Mode ..... [X]
SATA Only    ..... [ ]

↑↓:Move  ENTER:accept  ESC:Abort

↑↓←→:Move  Enter:Select  +/-/PU/PD:Value  F10:Save  ESC:Exit  F1:General Help
F5: Previous Values  F6: Fail-Safe Defaults  F7: Optimized Defaults
  
```

```

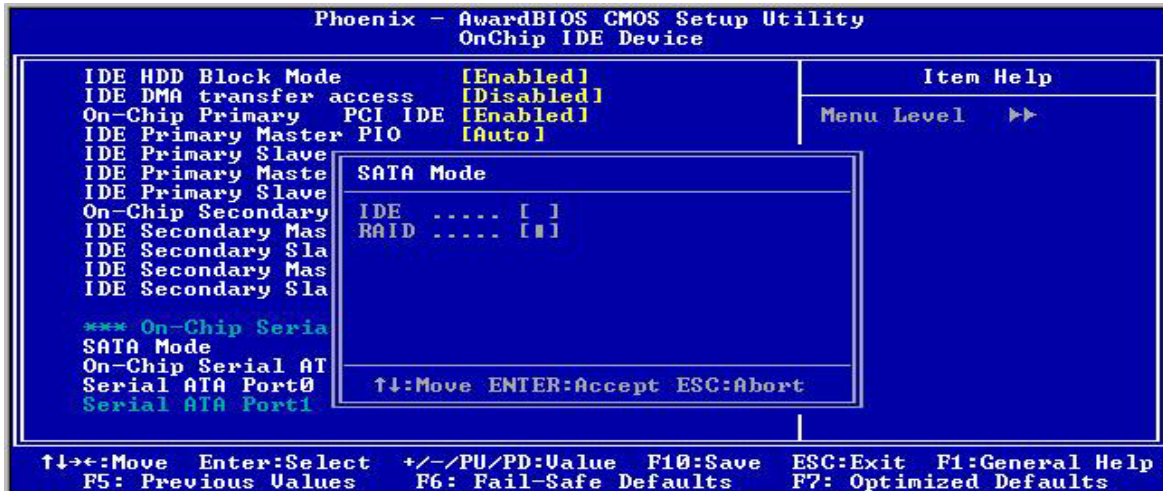
Phoenix - AwardBIOS CMOS Setup Utility
OnChip IDE Device

IDE HDD Block Mode      [Enabled]
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IDE Primary Slave UDMA  [Auto]
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IDE Secondary Master PIO [Auto]
IDE Secondary Slave PIO  [Auto]
IDE Secondary Master UDMA [Auto]
IDE Secondary Slave UDMA [Auto]

*** On-Chip Serial ATA Setting ***
SATA Mode                [IDE]
On-Chip Serial ATA       [Enhanced Model]
Serial ATA Port0 Mode    [SATA0 master]
Serial ATA Port1 Mode    SATA1 master

Item Help
Menu Level  >>>

↑↓←→:Move  Enter:Select  +/-/PU/PD:Value  F10:Save  ESC:Exit  F1:General Help
F5: Previous Values  F6: Fail-Safe Defaults  F7: Optimized Defaults
  
```



Then "Save and Exit". System will reboot.

2. When system reboot press "Ctrl + I" to create RAID.

Intel® RAID for Serial ATA -RAID Configuration Utility

A. Delete RAID Volume → Del → Y (Optional: if you have old RAID on hard drive)

B. Reset Disks Volume → Y → RAID Level (Choose RAID 0 or RAID 1)

a. For Create RAID 0

Name: RAID_Volumel

RAID Level : RAID 0 (Stripe)

Strip Size : 128 KB

Capacity : XX GB

b. For Create Raid 1

Name: RAID_Volumel

RAID Level : RAID 1 (Mirror)

Strip Size : N/A

Capacity : XX GB

c. Create Volume → Y

C. Exit → Y

System will restart.

3. Install OS (Windows XP)

A. Create RAID driver floppy disk.

- From Driver CD (MB152 Ver. A1.6.6) → Browse CD → Open RAID folder → Open F6 Install

Floppy Disk Utility folder → insert blank floppy disk in floppy drive and double click on "F6flpy32" to create driver disk.

B. Boot up from Windows installation CD (BIOS set up CD-ROM boot)

- When Blue screen start, Press F6

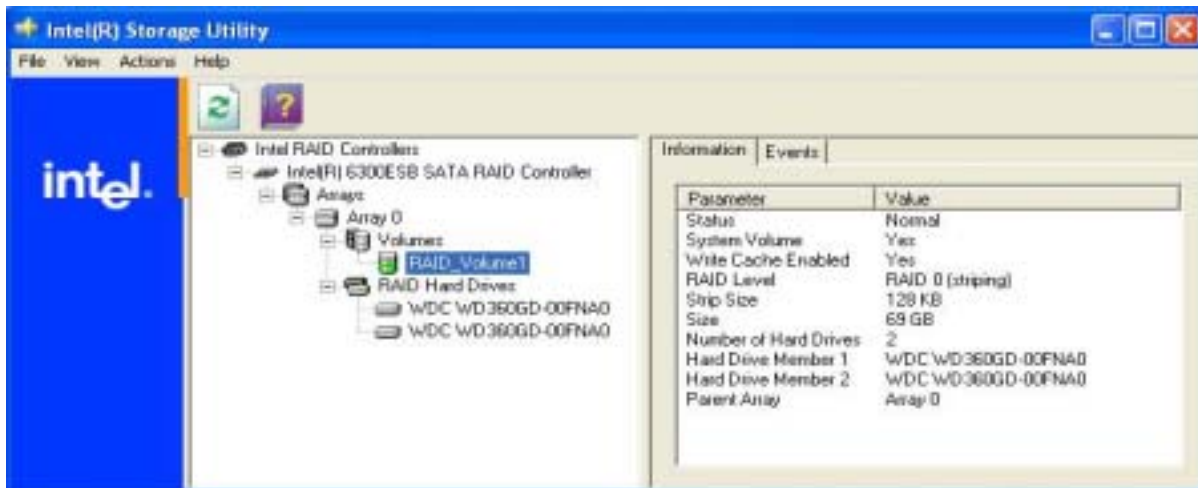
- Press S to install Raid Driver from Floppy disk.

- Enter -> Enter -> F8 to agree and follow instruction to install OS.

C. Install All Driver from Driver CD (INF utility, RAID, Audio, LAN etc ...)

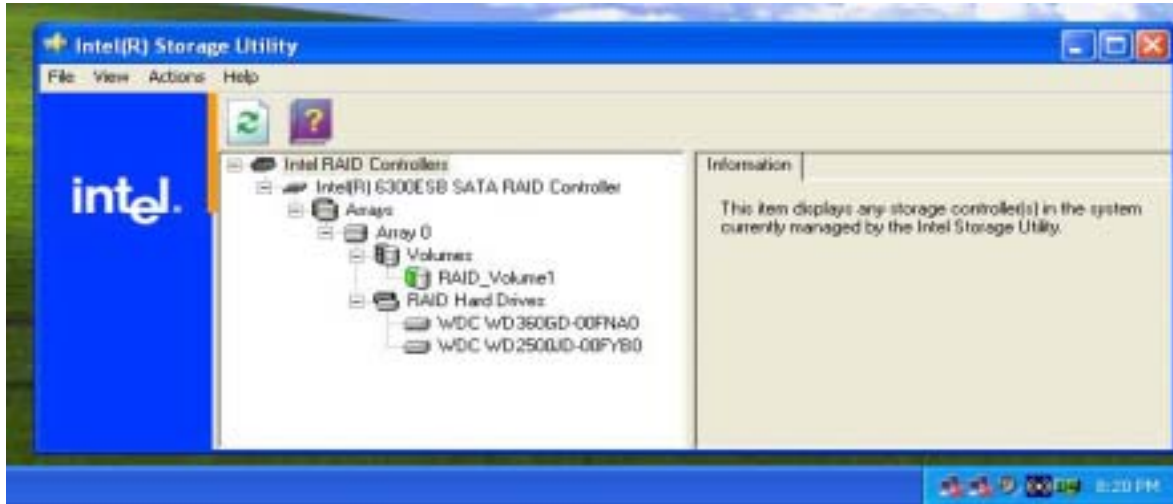
RAID 0

- Start → Programs → Intel® Application Accelerator
- Open Intel Application Accelerator (Intel® Storage Utility)
- Check Volume1 HDD RAID 0 Size, HDD1, HDD 2)



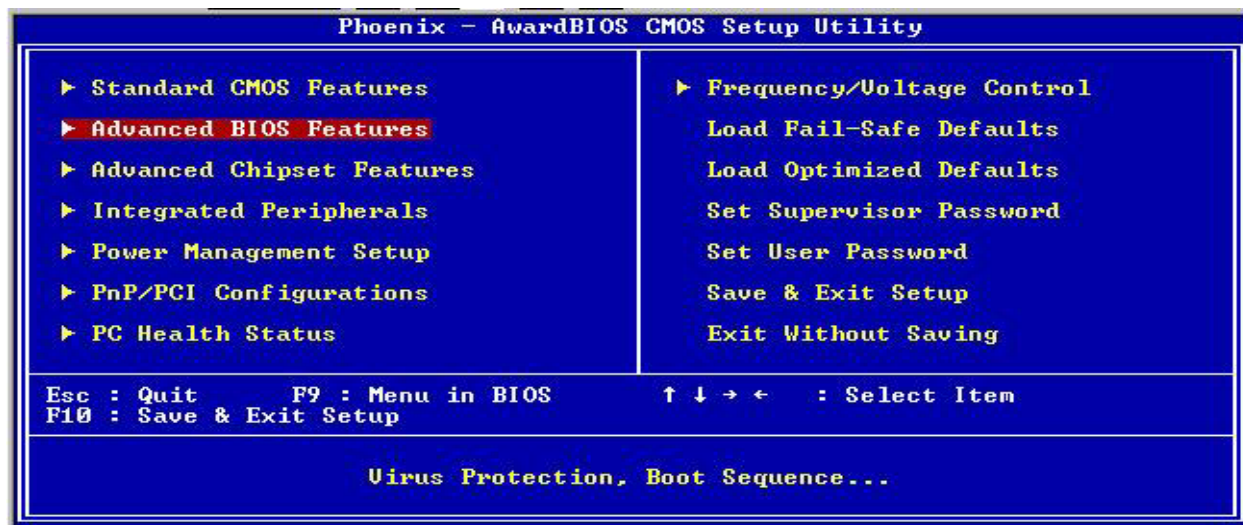
RAID 1

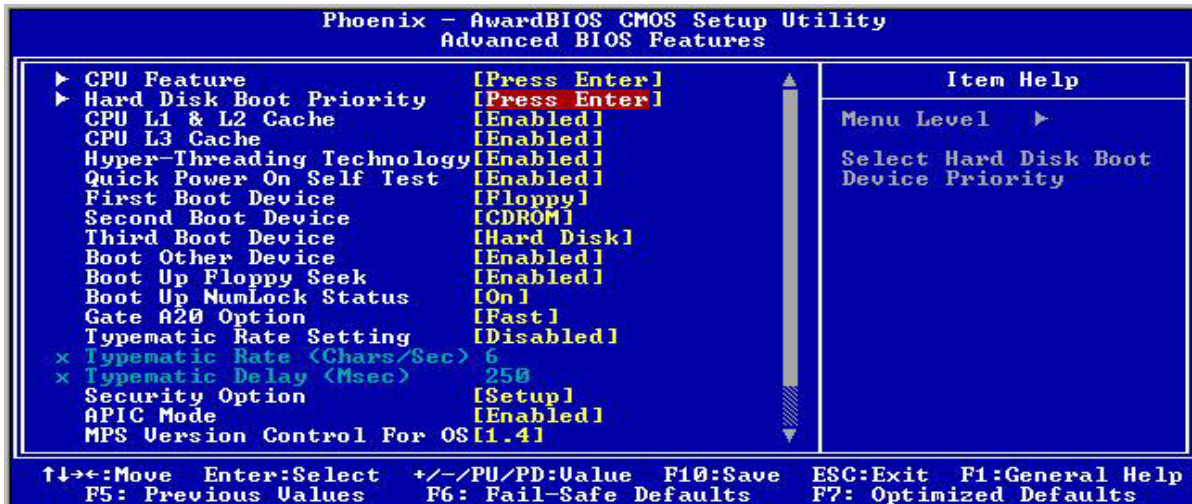
- Open Intel® Storage Utility
- Check Volume1, HDD, RAID 1 Size.



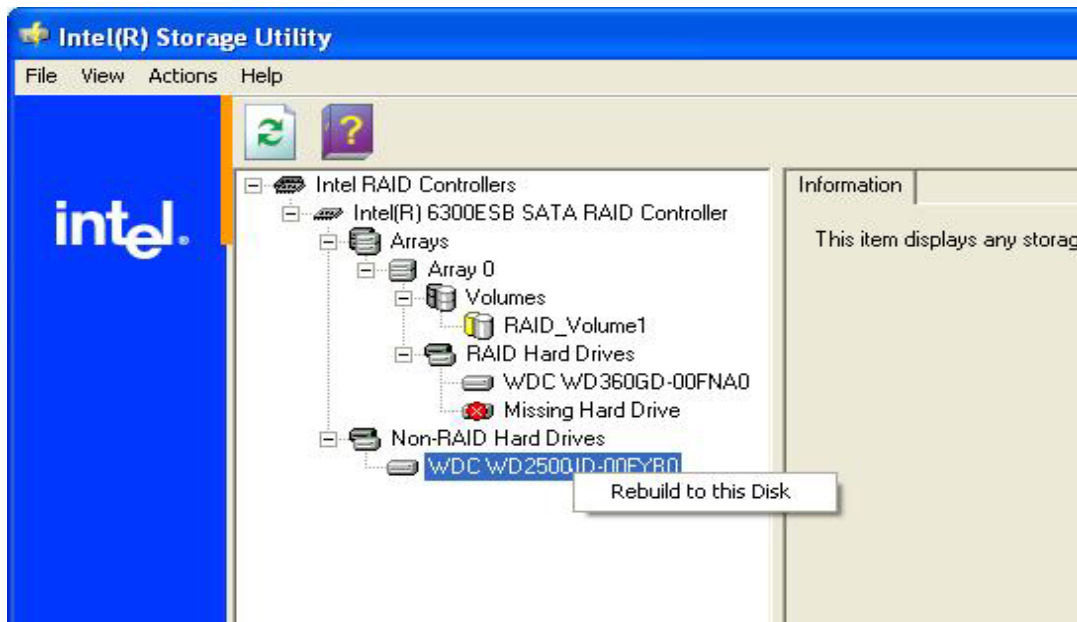
For Rebuild/ Replace Disk

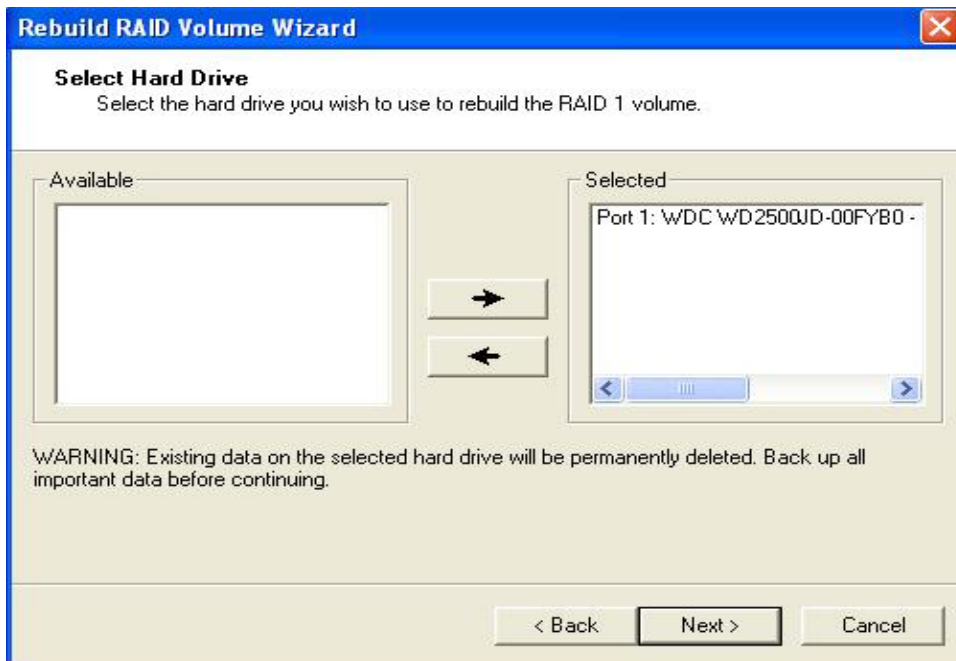
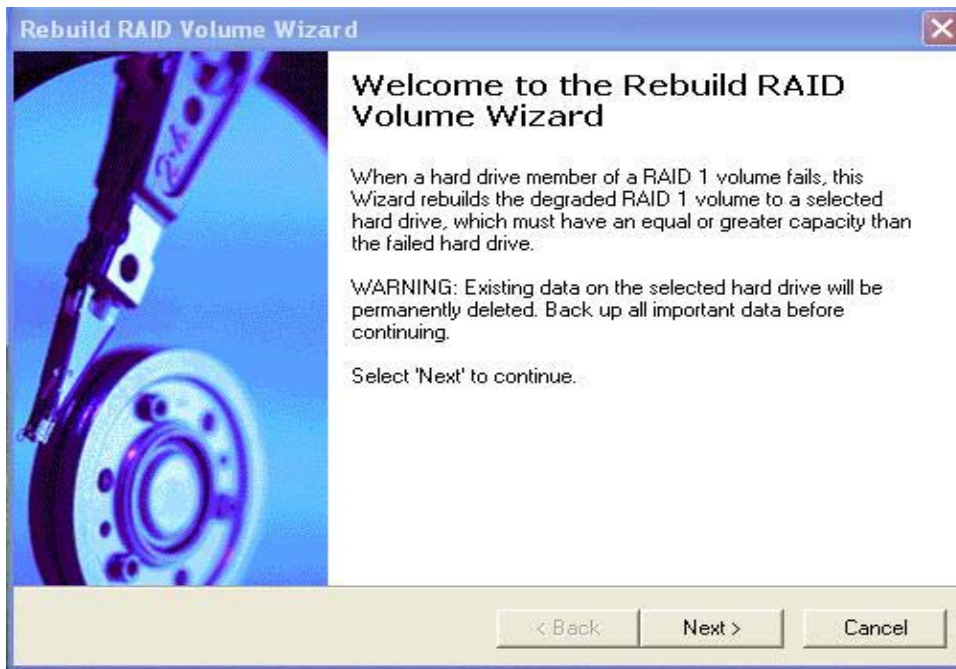
- Shut down the system and replace with new hard drive. (Recommended to use same size hard drive)
- BIOS set up (Set first boot device as RAID)
-Advanced BIOS Features → Hard Disk Boot Priority → RAID_Volume1

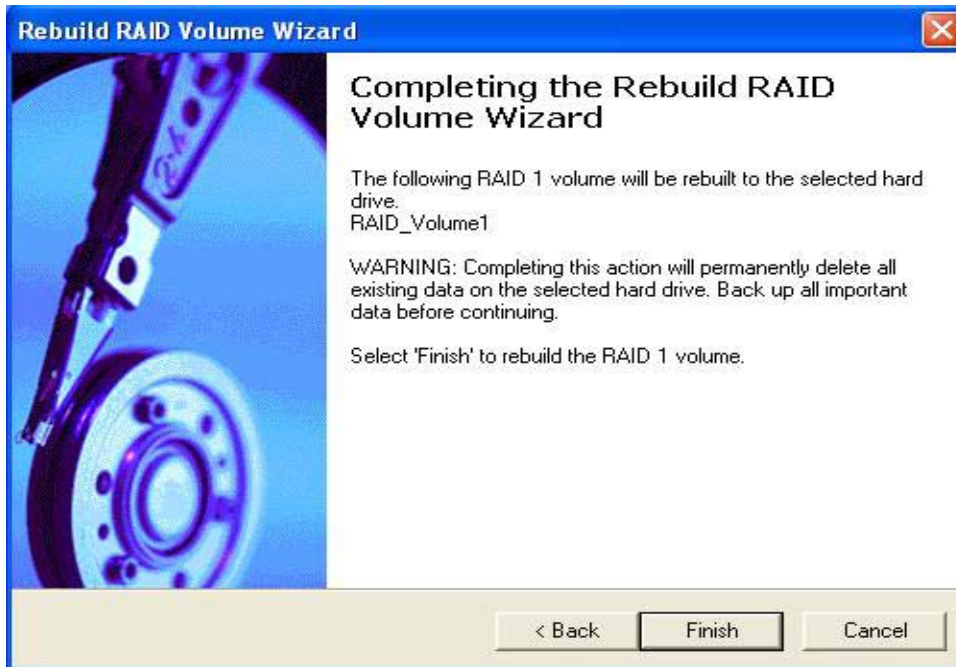




- Boot to OS
- Open Intel Application Accelerator (Intel® Storage Utility)
- You will see missing RAID Hard Drive.
- Then, Rebuild to this Disk by follow instruction.







- Then, RAID will be rebuild.

