

Merit LILIN Application Note How to Configure RAID5 on a NAV3025 Server

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Dept: Technical Support, Taipei

Subject: How to setup RAID5 on a NAV3025 server

Description: This document describes how to configure RAID5 on a NAV3025 server

Step #1:

Press "CTRL+I" to enter the configuration utility.

```
orporation. Hil Rights Reserved.
 RAID Volumes:
 ID
                                                  Strip
                                                              Size Status
                                                                                 Bootable
       Volume_0000
                             RAID5(Parity)
                                                  64KB
                                                           298.1GB Normal
                                                                                    Yes
 Physical Devices:
       Device Model
                            Serial #
                                                         Size Type/Status(Vol ID)
149.0GB Non-RAID Disk
       ST3160318AS
                            GUYANY4H
       ST3160811AS
SATADOM-MV 3ME
                            5PT0TD12
                                                         149.0GB Member Disk(0)
                                                         29.8GB Non-RAID Disk
149.0GB Member Disk(0)
                            0825AAAA80919039
                            9RXDM6H7
       ST3160815AS
                                                         149.0GB Member Disk(0)
       ST3160811AS
                            6PT0S362
Press <CIRL-I> to enter Configuration Utility...
```

Step #2:

Click the "Create RAID Volume" to set up the RAID.

```
Intel(R) Rapid Storage Technology - Option ROM - 12.7.0.1936
        Copyright(C) 2003-13 Intel Corporation. All Rights Reserved.
                                                  Recovery Volume Options
            Delete RAID Volume
                                             5.
                                                 Acceleration Options
            Reset Disks to Non-RAID
                           -C DISK/VOLUME INFORMATION ]=
RAID Volumes:
None defined.
Physical Devices:
                                                   Size Type/Status(Vol ID)
149.0GB Non-RAID Disk
     Device Model
                        Serial *
ID
     ST3160318AS
                        6VYANY4W
                                                   149.0GB Non-RAID Disk
                        5PTOTD12
     ST3160811AS
                       0825AAAA80919039
     SATADOM-MV 3ME
                                                    29.8GB Non-RAID Disk
                       9RXDM6H7
                                                   149.0GB Non-RAID Disk
     ST3160815AS
                                                   149.0GB Non-RAID Disk
     ST3160811AS
                       6PT0S362
```



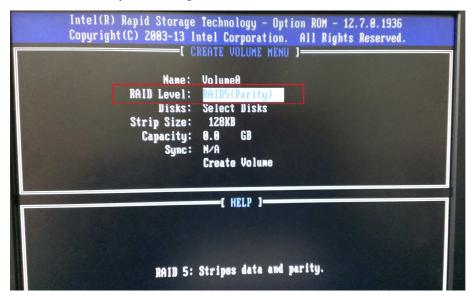
Step #3:

Create the Name for the RAID. We can create any name we want.



Step #4:

Create RAID5 by selecting the RAID Level





Step #5:

Set up the RAID level to "RAID5 (Parity)

```
Intel(R) Rapid Storage Technology - Option ROM - 12.7.0.1936
Copyright(C) 2003-13 Intel Corporation. All Rights Reserved.

[ CREATE VOLUME MENU ]

Name: Volume0
RAID Level: RAID5(Parity)

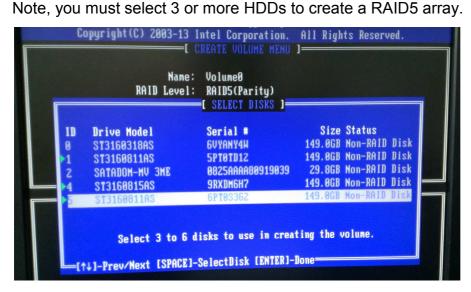
Disks: Select Disks
Strip Size: 128KB
Capacity: 8.8 GB
Sync: N/A
Create Volume

[ HELP ]

RAID 5: Stripes data and parity.
```

Step #6:

Select the HDDs we want to configure for RAID5 and then press "Space Bar". After this is done, press "Enter" to go back to the previous menu.





Step #7:

Set up the Stripe Size to 64KB and this is the best option for RAID5.

```
Name: Volume0

RAID Level: RAID5(Parity)

Disks: Select Disks

Strip Size: 64KB

Capacity: 298.1 GB

Sync: N/A

Create Volume

[ HELP ]

The following are typical values:

RAID0 - 120KB

RAID10 - 64KB

RAID5 - 64KB
```

Step #8:

Press "Enter" to finish creating RAID5 and then press "Y" button to start formatting the HDDs.

