ŵ							_ <b>_</b> X
ADD	EDIT	DELETE	ID	Device Model	Serial #	Size	Type/Status(Vol ID)
			2	HDD	WXYZ-1236	960	Non-RAID Disk
			3	HDD	WXYZ-1237	100.7	Non-RAID Disk
			4	HDD	WXYZ-1238	300.9	Non-RAID Disk
			1	HDD	WXYZ-1239	304.75	Non-RAID Disk
			0	HDD	WXYZ-1241	312.6	Non-RAID Disk
			5	HDD	WXYZ-1240	278.54	Non-RAID Disk
				START	-		

#### First Window:

In this window, the user can review and alter the disk information before initializing the actual RAID Simulator.

## Features:

Add:

- Step 1 Click ADD button
- Step 2 Fill all the fields

Step 3 - Click SAVE button

## Edit:

- Step 1 Click EDIT button
- Step 2 Enter the ID of the disk you wish to edit or click the row of the disk from the table.
- Step 3 Edit the information you wish to change
- Step 4 Click SAVE

# Delete:

- Step 1 Click **DELETE** button
- Step 2 Enter the ID of the disk you wish to edit or click the row of the disk from the table.
- Step 3 Click DELETE button

To start the RAID Simulator, click START button

### RAID Simulator Main Window:

	Intel (R) Ranid Storag				
		e Technology enterprise - S	ATA Option ROM 3.6	.0.1023	
	Copyright (C) 20	03-2012 Intel Corporation.	All Kights Keserved		
		[ MAIN MENU ]			
	1. Create RAID Volume		3. Re	eset Disks to Non-RAID	
	2. Delete RAID Volume		4. Ex	kit	
		■ I DISK VOLUME/INFORMATION	]		
RAID Volumes	:				
None Defined					
Physical Dis	sks :				
ID	Device Model	Serial #	Size	Type/Status(Vol ID)	
2	HDD	WXYZ-1236	960GB	Non-RAID Disk	
3	HDD	WXYZ-1237 WXYZ-1238	100./GB 300.9GB	Non-RAID Disk	
	HDD	WXYZ-1239	304.75GB	Non-RAID Disk	
0	HDD	WXYZ-1241	312.6GB	Non-RAID Disk	
5	HDD	WXYZ-1240	278.54GB	Non-RAID Disk	
J					

This simulator can create, delete and reset RAID configurations. It supports both full keyboard and mouse control.

## Features:

## Create RAID Volume:

Step 1 - Choose the **Create RAID Volume** and press **<Enter>** key to enter the Create Volume Menu. To create a RAID volume, you can use default name (Volume0) or input a customized name of the volume. Follow the **HELP** text on the screen to get more detailed introduction of this function.

R Intel RAID Simulator		
	Intel (R) Rapid Storage Technology enterprise - SATA Option RDH 3.6.0.1023 Copyright (C) 2003-2012 Intel Corporation. All Rights Reserved	
	I CREATE VOLUME MENU I	
	Name: Volume0	
	RAID Level:	
	Disks: Select Disks	
	Strip Size: KB	
	Capacity: 0.0 GB	
	Create Volume	
	[ HELP ]	
	$\label{eq:linear} \texttt{I} \uparrow \downarrow \texttt{J-Change} \qquad \texttt{LTABJ-Next} \qquad \texttt{LESCJ-Previous Menu} \qquad \texttt{LENTERJ-Select}$	

Step 2 – After inputting a volume name, press <Tab> key to go to the next setting – RAID Level. Use <Up> and <Down> arrow keys to change the RAID Level among RAID0(Stripe), RAID1(Mirror), RAID5(Parity) and RAID10(RAID0+1). Refer to the HELP text to get more details.

Intel (R) Rapid Storage Copyright (C) 200	Technology enterprise – SATA Opt 3–2012 Intel Corporation. All Rig	ion ROM 3.6.0.1023 Jhts Reserved	
	CREATE VOLUME MENU ]		
Name:	Volume0		
RAID Level:	RAID0(Stripe)		
Disks:	Select Disks		
Strip Size:	KB		
Capacity:	0.0 GB		
	Create Volume		
	[ HELP ]		
Ré	AID 0: Stipes data (performance)		
	Intel (R) Bapid Storage Copyright (C) 200 Name: RAID Level: Disks: Strip Size: Capacity: Rf	Intel (R) Rapid Storage Technology enterprise - SATA Opt Copyright (C) 2003-2012 Intel Corporation. All Rig I CREATE VOLUME MEMU ] Name: VolumeO RAID Level: RAIDO(Stripe) • Disks: Select Disks Strip Size: KB Capacity: 0.0 GB Create Volume [ HELP ] RAID 0: Stipes data (performance)	Intel (R) Rapid Storage Technology enterprise - SATA Option ROH 3.6.0.1023 Copyright (C) 2003-2012 Intel Corporation. All Rights Reserved

Step 3 – After the choices, press <Tab> key to go the next setting – Disks.

ter roadb simulator				
In	tel (R) Rapid Storage Copyright (C) 200	<u>Technology enterprise – SATA Optio</u> 3–2012 Intel Corporation. All Right	m ROM 3.6.0.1023 is Reserved	
	Name:	Volume0		
	RAID Level:	RAID0(Stripe)		
	Disks:	Select Disks		
	Strip Size:	KB		
	Capacity:	0.0 GB		
		create Volume		
		[ HELP ]		
[	↑↓ 1–Change ITA	31-Next [ESC]-Previous Menu	[ENTER]-Select	

Step 4 – Press <**Enter**> key to enter the **Select Disk** Menu. Follow the hints at the bottom of the pop-up menu to select disks. The selected disks will have a green mark on the left side of their port numbers. After the choice, press <**Enter**> key and follow the text on screen to finish this step.

		CREATE VOLUME MENU	]		
	Name:	Volume0			
	RAID Level:	RAID0(Stripe)	-		
	Disks:	Select Disks			
	Stain Size	VB			
	ourip oize.				
ID	Drive Model	Serial #	Size	Status	
2	HDD	WXYZ-1236	960	Non-RAID Disk	
3	HDD	WXYZ-1237	100.7	Non-RAID Disk	
4	HDD	WXYZ-1238	300.9	Non-RAID Disk	
1	HDD	WXYZ-1239	304.75	Non-RAID Disk	
0	HDD	WXYZ-1241	312.6	Non-RAID Disk	
5	HDD	WXYZ-1240	278.54	Non-RAID Disk	
	Selec	t Z to 8 disks to use in crea	ting this volume.		
l ⊆ l ↑ ↓ JPi	revious/Next [SPACE]	-Selects [ENTER]-Selection	Complete		

Step 5 – In the **Strip Size** option, type in the wanted strip size. If you don't know which value to choose, follow the suggestion in the **HELP** text to set the value.

R Intel RAID Simulator				_ <b>_</b> ×
	Intel (R) Rapid Storage Copyright (C) 2003	Technology enterprise – SATA Option 3–2012 Intel Corporation. All Rights	ROM 3.6.0.1023 Reserved	
		C CREATE UNLIME MENU 1		
	Name:	Volume0		
	NHID LEVEL:	RAID0(Stripe)		
	Disks:	Select Disks		
	Strip Size:	128 <sup>KB</sup>		
	Capacity:	302.1 GB		
		Create Volume		
		[ HELP ]		
	The	tollowing are typical values:		
		RÁIDO – 128KB BÁID10 – 64KB		
		RAIDS – 64KB		
	[ ] ] Change	l-Nevt [FSC]-Previous-Menu	[ENTER]_Select	
		HEAT HEAT IF COIDUS HEIM		

Step 6 – In the **Capacity** option, either accept the default value, which is the largest possible volume, or input a number as the volume size.

Intel RAID Simulator				
	Intel (R) Rapid Storage Copyright (C) 200	Technology enterprise – SATA Op 3–2012 Intel Corporation. All Ri	tion ROM 3.6.0.1023 ghts Reserved	
		CREATE VOLUME MENU 1		1
	Name:	Volume0		
	RAID Level:	RAID0(Stripe)		
	Disks:	Select Disks		
	Strip Size:	128 KB		
	Capacity:	302.1 GB		
		Create Volume		
		[ HELP ]		
	The default value disk. Entering	indicates the maximum capacity u a lower capacity allows you to c volume on these disks.	sing the selected reate a second	
	[↑↓]-Change [TA	Bl-Next [ESC]-Previous Menu	[ENTER]-Select	

Step 7 – In the **Create Volume** option, when confirmed, press <**Enter**> key to create the RAID volume. A warning message will pop up on the screen. Confirm if previous data is no longer needed, and press <**Y**> to go on creating the new RAID volume, or press <**N**> to cancel the creation.

R Intel RAID Simulator				
	Intel (R) Rapid Stora Copuright (C) 20	e Technology enterprise - SATA 103-2012 Intel Corporation, All	Option ROM 3.6.0.1023 Rights Reserved	
		CREATE VOLUME MENU 1		
	Name:	Volume0		
	KAID Level:	RAID0(Stripe)		
	Jisks:	Select Disks		
	WAR	ING: ALL DATA ON SELECTED DISK	WILL BE LOST!	
	Are y	ou sure you want to create this	volume? (YZN):	
	Press	ENTER to create the specified	volume.	
	[↑↓]-Change [1	ABI-Next [ESC]-Previous Me	mu [ENTER]-Select	

Step 8 – After the RAID volume is created, the Disk/Volume information is displayed in the middle of the main menu, listing the key information such as ID number, name, RAID level, strip size, volume, status and whether this is a bootable volume.

	Intel	(R) Rapid Storage Te Copyright (C) 2003–2	chnology enterprise - 3 012 Intel Corporation.	SATA Option ROM 3.6. All Rights Reserved	0.1023 l	
			E MAIN MENU J			
	1. Crea	te RAID Volume		3. Re	set Disks to Non-	RAID
	2. Dele	te RAID Volume		4. Ex	tit	
RAID Vo) ID O	lumes: Name Volume0	Leve I RAID0(Stripe)	Strip 128KB	Size Stat 302.1GB Norr	<b>tus</b> nal	<b>Bootable</b> Yes
Physica	l Disks:					
ID	Device	Model S	erial #	Size	Type/Status(Vol	ID)
	HDD	۷	XYZ-1236	960GB	Member Disk (0)	
3	HDD	v	XYZ-1237 XYZ-1238	100.7GB	Member Disk (0)	
	HDD	v	/XYZ-1239	304.75GB	Non-RAID Disk	
	HDD	٧	/XYZ-1241	312.6GB	Non-RAID Disk	
5	HDD	v	XYZ-1240	278.54GB	Non-RAID Disk	

## Delete RAID Volume:

Step 1 – For any RAID volume that is no longer needed, choose **Delete RAID Volume** and press <**Enter**> key to enter the **Delete Volume** Menu, in order to remove the volume from the Intel® RSTe.

Intel	(R) Rapid Storage	Techno logy	enterprise -	SATA Option ROM 3.	6.0.1023	
	Copyright (C) 2003	-2012 Inte	l Corporation.	All Rights Reserv	ed	
		E DEL	ETE VOLUME ME	1		
Name	Leve 1	Drives	Canacitu	Status	Bootable	
Volume0	RAID0(Stripe)	3	302 1GB	Normal	Yes	
Volumoo	Third(Ottipo)		002.100	Norma	105	
			[ HELP ]			
	Deleting a v	olume will	reset the disk	s to non-RAID.		
	LIARN IN	G: ALL D	ISKS MILL BE D	ELETEN		
	I 1 1 Select	IPOCI Durant	eue Menu	[DEL] Delete Helu		
		TLOUT TTEV	ous nenu	TUNDED FOR THE UNIT		

Step 2 – Use  $\langle Up \rangle$  and  $\langle Down \rangle$  arrow keys to select the RAID volume that is no longer needed. Press  $\langle DEL \rangle$  key to delete the volume. A warning message will pop up on screen.



# Reset RAID Volume:

This feature is used when specific disk needs to be set back to non-RAID mode. For example, in a RAID5 volume, if one disk is set to non-RAID mode, this disk can work in pass-through (non-RAID) mode, or join in the configuration of another RAID volume. The RAID5 volume will be in degraded mode due to loss of this disk, and can be rebuilt if another disk joins this RAID5 volume. This feature is useful when specific drives needs to be replaced by another one.

Step 1 – Choose the **Reset RAID Volume** and press **<Enter>** key to enter the Reset Volume Menu. Use **<Up>** and **<Down>** arrow keys to select the target disk, and press **<Space>** key to mark the disk with a green mark on the left side of its port number. Press **<Enter>** key to reset this disk. A confirmation message will pop up at the lower side of the screen.



Step 2 – When confirmed, press <Y> to go resetting this disk to Non-RAID mode. After this, if system detects both a **Degraded** volume and disk available for rebuilding, a **Degraded Volume Detected** window will pop up, asking for selecting a disk to initiate a rebuild.

	"DEGRADED a disk in	[ DEGRADED ] " volume and disk ava itiates a rebuild. Re	VOLUME DETECTED 1	detected. Selecting operating system.	,
	Select th	e port of the destina	tion disk for rebuildi	ng (ESC to exit):	
	ID	Drive Model	Serial #	Size	
	2	HDD	WXYZ-1236	200.5	
RAID Volumes	1	HDD	WXYZ-1239	304.75	
ID Na	0	HDD	WXYZ-1241	312.6	otable
0 Vc		HDD	WXYZ-1240	278.54	Yes
3 4 1 0	r1	1-Preuious/Next	[ENTER]-Select	(FSC1-Evit	
5	100	WA12-1240	Sereet	276,3436 NUT-FUED DISK	

Step 3 – Choose an available disk and press <**Enter**> key to initiate the rebuild, or press <**ESC**> key to cancel a rebuild and leave the RAID volume in degrade status. The following screenshots show the RAID volume in rebuild or degrade status.

			[MAIN M]	Enu 1				
	1. Creat	1. Create RAID Volume			3. Reset Disks to Non-RAID			
	2 Delet	te BAID Volume			4 E	vit		
	L. beie				1. 1.			
DAID II			DISK UOLUMEZIN	NFORMATION ]				
	lumes:							
MATU VA LD	lumes: Name	Level		Strip	Size Sta	tus	Bootable	
ID D	Dlumes: Name Volume0	Level RAID5(Parity		Strip 64KB	Size Sta 201.4GB Reb	<b>tus</b> uild	<b>Bootable</b> Yes	
(D )	<b>Dlumes:</b> Name Volume0	Leve I RAID5(Parity	)	Strip 64KB	Size Sta 201.4GB Reb	tus uild	Bootable Yes	
(D)	D <b>lunes:</b> Nanc Volume0	<b>Leve l</b> RAID5(Parity	)	Strip 64KB	Size Sta 201.4GB Reb	tus uild	Bootable Yes	
ID D Physic	olumes: Nane Volume0 al Disks:	<b>Leve I</b> RAID5(Parity	)	Strip 64KB	Size Sta 201.4GB Reb	<b>tus</b> uild	<b>Bootable</b> Yes	
RHID O ID ) Physic ID	olumes: Nane Volume0 al Disks: Device (	Leve l RAID5(Parity Hode l	) Scrial #	<b>Strip</b> 64KB	Size Sta 201.4GB Reb Size	tus uild Type/Status(Vol	Bootable Yes ID)	
Physic ID Physic ID 2	Dlumes: Nane Volume0 al Disks: Device HDD	Leve I RAID5(Parity Mode I	) Scrial # WXYZ-1236	<b>Strip</b> 64KB	Size Sta 201.4GB Reb Size 200.5GB	tus uild Type/Status(Uol Member Diak(0)	Bootable Yes ID)	
Physic ID 2 3	Diumes: Nane Volume0 al Disks: Device I HDD HDD	Leve l RAID5(Parity Mode l	Scrial # WXYZ-1236 WXYZ-1237	<b>Strip</b> 64KB	Size Sta 201.4GB Reb Size 200.5GB 100.7GB	tus uild Type/Status(Vol Member Disk (0) Member Disk (0)	Bootable Yes ID)	
Physic ID Physic ID 2 3 4	Diumes: Name Volume0 al Disks: Device I HDD HDD HDD	Leve   RAD5(Parity Hode	Scrial # WX72-1236 WX72-1237 WX72-1233	Strip 64KB	Size Sta 201.4GB Rob Size 200.5GB 100.768 300.9GB	tus uild Type/Status(Vol Member Disk (0) Member Disk (0)	Bootable Yes ID)	
Physic ID 2 3 4 1	Alumes: None Volume0 al Disks: Device I HDD HDD HDD HDD HDD HDD	Leve I RAID5(Parity Mode I	Serial # WX72-1236 WX72-1238 WX72-1238 WX72-1239	Strip 64KB	Size Sta 201.4GB Røb Size 200.568 100.768 300.968 304.7568	tus uild Type-/Status(Vol Member Dak(0) Member Dak(0) Non-RAD Dak	Bootable Yes ID)	

			I MAIN N	1enu j					
	1. Create R	AID Volume		3. Reset Disks to Non-RAID					
	2 Dalata P			4 Ruit					
	Z. Delete n	nib Volume			1. 10	at and a second s			
RAIN Uni	umes:		DISK VOLUMEN	NFORMATION ]					
ID	Name	Level		Strin	Size Sta	tus	Bootable		
0	Volume0	RAID5(Parity)		64KB	201 4GB Reb	GB Rebuild Yes			
Physica	l Disks:								
ID	Device Mode	1	Serial #		Size	Type/Status(Vol	ID)		
	HDD		WXYZ-1236		200.5GB	Member Disk (0)			
	HDD		WXYZ-1237		100.7GB	Member Disk (0)			
4	HDD		WXYZ-1238		300.9GB	Member Disk (0)			
	HDD		WXYZ-1239		304.75GB	Non-RAID Disk			
0	HDD		WXYZ-1241		312.6GB	Non-RAID Disk			
5	HDD		WXYZ-1240		278.54GB	Non-RAID Disk			
	Volum	e with "Rebuil	d" status will	be rebuilt wit	hin the operati	ing system.			
					<u> </u>				

1. Create R	AID Volume	3. Reset Disks to Non-RAID				
2. Delete B	AID Volume	4. Exit				
11002 -		E DISK VOLUMEZI	NFORMATION 1			
Name	Level		Strip	Size Sta	tus	Bootable
Volume0	RAID5(Parity)		64KB	201.4GB Degraded		Yes
l Disks: Deuice Mode		Servial #		Size	Tume (Status (IIo)	10.)
DEVICE Houe		JEF101 #		3126	New DND Diele	107
HDD		WX12-1230 WXY7-1237		200.5GB	Member Diek (0)	
HDD		WXYZ-1238		300.9GB	Member Disk (0)	
HDD		WXYZ-1239		304.75GB	Non-RAID Disk	
HDD		WXYZ-1241		312.6GB	Non-RAID Disk	
HDD		WXYZ-1240		278.54GB	Non-RAID Disk	
	1. Create R/ 2. Delete R/ Name Volume0 I Disks: HOD HOD HOD HOD HOD HOD HOD HOD	1. Create RAID Volume 2. Delete RAID Volume umes: Name Level Volume0 RAID5(Parity) 1 Disks: Device Model HDD HDD HDD HDD HDD HDD HDD HD	1. Create RAID Volume 2. Delete RAID Volume UNES: Nanc Level Volume0 RAIDS(Panty) 1 Disks: Device Model Serial # HDD VVX72-1236 HDD VVX72-1238 HDD VVX72-1238 HDD VVX72-1238 HDD VVX72-1241 HDD VVX72-1241	1. Create RAID Volume 2. Delete RAID Volume umes: Mane Level Strip Volume0 RAID5(Panty) 64KB I Disks: Device Hodel Serial # HDD W072-1236 HDD W072-1237 HDD W072-1238 HDD W072-1238 HDD W072-1238	I. Create RAID Volume         Image: Column and the second and t	1. Create RAID Volume     3. Reset Disks to Non-       2. Delete RAID Volume     1. Exit         Nane     Level     Strip       Volume0     RAUDS(Panty)       64KB     2014GB       Device Model     Serial #       NDD     W072-128       HDD     W072-1240       HDD     W072-1240

**NOTE:** PC reboot is required to completely terminate, delete or move this application.