



Storage Solutions

Proavio

Manufacture	Proavio
Product	R14HDS
Web site	http://www.proavio.com/ October 3, 2007



Components

The following components were used at the time of testing

System	HP XW 8400
CPU	Intel 3.6 GHz Dual Core x 2
Memory	4 GB DDR2
Graphics	Nvidia Quadro FX1500
Operating System	Windows XP SP2
Bluefish444 Hardware	HD Fury, SD Greed, HD Lust,
Other	Rage NCode (Accelerator 3000)
SCSI controllers	ATTO UL5D Adaptec 9320A-R

Driver versions

Bios version	V2.34
Driver package	As per Driver CDROM
Adaptec SCSI Controller - 39320A	Ultra320 SCSI Drivers v7.0.0., Microsoft certified
ATTO UL5D	winx86_drv_epciu320_304.exe
Nvidia	91.85
Bluefish444	Installer 5.4.9 driver 5.4.6 24



Test Run A Configuration 1

	Name	Slot Number
Controller	Atto UL5D	PCIe
Storage	Proavio R14HDS	
Bluefish444 Hardware	HD Fury	PCI X Slot 5
RAID Configuration Unit	RAID 0	
RAID Configuration OS	RAID 0	

Benchmarks

The following performance values measured via the ATTO Disk Benchmark tool

Transfer Size	Length	Writes	Reads
8192	256	361395	446329

Symmetry Crash record results

The following capture tests were performed with Symmetry, capturing 5 x10 minutes in Logs modes via crash record

Single Stream I/O results (Symmetry)					
Video Resolution	Pixel format/File format				
	10 bit RGB DPX/Cineon*	10 bit v210 QuickTime	8bit RGBA TARGA*	8 bit YUV AVI	8 bit YUV MPEG2
NTSC	Y	Y	Y	Y	Y
PAL	Y	Y	Y	Y	Y
1920 x 1080 @ 23.98	Y	Y	Y	Y	Y
1920 x 1080 @ 24	Y	Y	Y	Y	Y
1920 x 1080 @ 25	Y	Y	Y	Y	Y
1920 x 1080 @ 29.97	Y	Y	Y	Y	Y
1920 x 1080 @ 30	Y	Y	Y	Y	Y
1280 x 720 @ 59.94	Y	Y	Y	Y	Y
1280 x 720 @ 60.00	Y	Y	Y	Y	Y
2048 x 1080 @ 24	Y	N/A	Y	Y	N/A
HSDL	Y	N/A	Y	Y	N/A

Crash record is performed by digitizing the raw signal without deck control or pre create feature



Test Run A Configuration 2

	Name	Slot Number
Controller	Adaptec PCI X 39320A-R	PCI X Slot 6
Storage	Proavio R14HDS	
Bluefish444 Hardware	HD Fury	PCI X Slot 5
RAID Configuration Unit	RAID 0	
RAID Configuration OS	RAID 0	

Benchmarks

The following performance values measured via the ATTO Disk Benchmark tool

Transfer Size	Length	Writes	Reads
8192	256	361395	446329

Symmetry Crash record results

The following capture tests were performed with Symmetry, capturing 5 x10 minutes in Logs modes via crash record

Single Stream I/O results (Symmetry)					
Video Resolution	Pixel format/File format				
	10 bit RGB DPX/Cineon*	10 bit v210 QuickTime	8bit RGBA TARGA*	8 bit YUV AVI	8 bit YUV MPEG2
NTSC	Y	Y	Y	Y	Y
PAL	Y	Y	Y	Y	Y
1920 x 1080 @ 23.98	Y	Y	Y	Y	Y
1920 x 1080 @ 24	Y	Y	Y	Y	Y
1920 x 1080 @ 25	Y	Y	Y	Y	Y
1920 x 1080 @ 29.97	Y	Y	Y	Y	Y
1920 x 1080 @ 30	Y	Y	Y	Y	Y
1280 x 720 @ 59.94	Y	Y	Y	Y	Y
1280 x 720 @ 60.00	Y	Y	Y	Y	Y
2048 x 1080 @ 24	Y	N/A	Y	Y	N/A
HSDL	Y	N/A	Y	Y	N/A

Crash record is performed by digitizing the raw signal without deck control or pre create feature



Test Run B Configuration 1

	Name	Slot Number
Controller	Atto UL5D	PCIe
Storage	Proavio R14HDS	
Bluefish444 Hardware	HD Fury	PCI X Slot 5
RAID Configuration Unit	RAID 5	
RAID Configuration OS	RAID 0	

Benchmarks

The following performance value measured via the ATTO Disk Benchmark tool

Transfer Size	Length	Writes	Reads
8192	256	311324	420523

Symmetry Crash record results

The following capture tests were performed with Symmetry, capturing 5 x10 minutes in Logs modes via crash record

Single Stream I/O results (Symmetry)					
Video Resolution	Pixel format/File format				
	10 bit RGB DPX/Cineon*	10 bit v210 QuickTime	8bit RGBA TARGA*	8 bit YUV AVI	8 bit YUV MPEG2
NTSC	Y	Y	Y	Y	Y
PAL	Y	Y	Y	Y	Y
1920 x 1080 @ 23.98	Y	Y	Y	Y	Y
1920 x 1080 @ 24	Y	Y	Y	Y	Y
1920 x 1080 @ 25	Y	Y	Y	Y	Y
1920 x 1080 @ 29.97	Y	Y	Y	Y	Y
1920 x 1080 @ 30	Y	Y	Y	Y	Y
1280 x 720 @ 59.94	Y*	Y	Y*	Y	Y
1280 x 720 @ 60.00	Y*	Y	Y*	Y	Y
2048 x 1080 @ 24	Y*	N/A	Y*	Y	N/A
HSDL	Y*	N/A	Y*	Y	N/A

Crash record is performed by digitizing the raw signal without deck control or pre create feature

*With Pre Create Option enabled



Test Run B Configuration 1

	Name	Slot Number
Controller	Adaptec PCI X 39320A-R	PCI X Slot 6
Storage	Proavio R14HDS	
Bluefish444 Hardware	HD Fury	PCI X Slot 5
RAID Configuration Unit	RAID 0	
RAID Configuration OS	RAID 0	

Benchmarks

The following performance was measured via the ATTO Disk Benchmark tool

Transfer Size	Length	Writes	Reads
8192	256	311328	420680

Symmetry Crash record results

The following capture tests were performed with Symmetry, capturing 5 x10 minutes in Logs modes via crash record

Single Stream I/O results (Symmetry)					
Video Resolution	Pixel format/File format				
	10 bit RGB DPX/Cineon*	10 bit v210 QuickTime	8bit RGBA TARGA*	8 bit YUV AVI	8 bit YUV MPEG2
NTSC	Y	Y	Y	Y	Y
PAL	Y	Y	Y	Y	Y
1920 x 1080 @ 23.98	Y	Y	Y	Y	Y
1920 x 1080 @ 24	Y	Y	Y	Y	Y
1920 x 1080 @ 25	Y	Y	Y	Y	Y
1920 x 1080 @ 29.97	Y	Y	Y	Y	Y
1920 x 1080 @ 30	Y	Y	Y	Y	Y
1280 x 720 @ 59.94	Y*	Y	Y*	Y	Y
1280 x 720 @ 60.00	Y*	Y	Y*	Y	Y
2048 x 1080 @ 24	Y*	N/A	Y*	Y	N/A
HSDL	Y*	N/A	Y*	Y	N/A

Crash record is performed by digitizing the raw signal without deck control or pre create feature

*With Pre Create Option enabled