



Systems

HP XW 8400

Monday, May 12, 2008 Rev B



Manufacture

Product

Web site

CPU

Memory

Graphics

Mother board revision

Operating Systems

Driver Versions Installed

[Bios version](#)

HP

XW 8400

www.hp.com

2 X Intel Xeon 5150 Dual Core 2.66 4MB/1333

4 GB

NVIDIA Quadro FX 1700

Rev OS

Windows XP SP2

2.31 Rev A

Tested Hardware

Bluefish444 Hardware

PCI 64 HD|Fury, HD|Lust,

PCI 32 SD|Greed, SL|Pro, SD Ingest

PCI e SD|Fidelity, SD|Focus, SD|Prime

Bluefish444 Software

Driver 5.7.1.7, 5.4.26

Symmetry v 3.5.5, v 3.7.5

Adobe Production Studio.

System Certified for

Symmetry

Uncompressed SD, HD,

Adobe Production Studio.



DMA benchmarks

The following DMA performance was provide by the Bluefish444 DMA benchmark tool.
 DMA benchmarks measure a performance of transactions from the System memory to the target Bluefish444 card.
 Pixel format tested, RGBA and RGB

Card	Buss Type	DMA performance, MB per/sec						
		PCI 32 Slot 1	PCI e 16 Slot 2	PCI e 8/4 Slot 3	PCI e 16/4 Slot 4	PCI X 133 Slot 5	PCI X 100 Slot 6	PCI X 100 Slot 7
2K Lust	PCI 64 66	NA	GPU	NA	NA	R 392 W 345	R 392 W 342	R 392 W 343
SD Greed,	PCI 32 33/66	R 92 W 102	GPU	NA	NA	R 198 W 201	R 198 W 201	R 198 W 201
SD Fidelity	PCI e 1	NA	GPU	R 125 W 129	R 125 W 129	NA	NA	NA

R = Read in MB per sec
 W = Write in MB per sec

Configuration

The following table outlines the configuration types and storage configurations tested with this motherboard.

Storage and host controller configurations and applications are not confined to this table,

	Card	Slot Type	Controller	Storage	Application
1	2K LUST/HD FURY	PCI 64	Adaptec RAID 5805	SAS	2K, HD, SD
2	2K LUST/HD FURY	PCI 64	ATTO UL5D	SCSI	2K, HD, SD
3	SD Greed	PCI 32	ATTO UL5D	SCSI	SD
4	SD Greed	PCI 32	Onboard SAS	SAS/SATA	SD
5	SD Greed	PCI 32	Adaptec RAID 5805	SAS/SATA	SD
6	SD Fidelity	PCI e	Onboard SAS	SAS/SATA	SD



Configuration 1

Bluefish444 hardware	2K Lust/ HD Fury	Slot 7/6
Controller	Adaptec RAID 5805	Slot 4
Storage	8 X SAS 80 GB RAID 0 Hardware	

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	NA	NA	NA	NA
HSDL	Y	NA	NA	NA	NA

Configuration 2

Bluefish444 hardware	2K Lust/ HD Fury	Slot 7/6
Controller	ATTO UL5D	Slot 4
Storage	SCSI JBOD 12 x 72GB 10K SCSI drives RAID 0 (Software)	

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	NA	NA	NA	NA
HSDL	Y	NA	NA	NA	NA

Configuration 3

Bluefish444 hardware	SD Greed	Slot 7/6/5
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Controller (All PCI 32 bit Cards) Slot 4
 Storage ATTO UL5D
 SCSI JBOD 12 x 72GB 10K SCSI drives
 RAID 0 (Software)

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

Configuration 4

Bluefish444 hardware SD Greed Slot 7/6/5
 (All PCI 32 bit Cards)
 Controller Onboard SAS
 Storage 2/4 X SAS or 2/4 X SATA
 RAID 0 (Software)

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

Configuration 5

Bluefish444 hardware SD Greed Slot 7/6/5
 (All PCI 32 bit Cards)
 Controller Adaptec RAID 5805 Slot 4
 Storage 2/4 X SAS or 2/4 X SATA
 RAID 0 (Software)

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



Configuration 5

Bluefish444 hardware	SD Fidelity (All PCI 32 bit Cards)	Slot 4
Controller	Onboard SAS	
Storage	2/4 X SAS or 2/4 X SATA RAID 0 (Software)	

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

Notes

Capture Tests Procedures for Symmetry

For each video mode for each file format

- 5 X 5 minute captures
- 5 X 20 minute captures
- 1 X 45 minute capture

Performance disclaimer

Capture and playback performance will vary between applications due to the way in which applications utilize storage and the effects of fragmentation. Therefore, while we guarantee these performance figures for this configuration we do not guarantee that you will be able to replicate this performance with other applications or systems. These results should be used as a guide to system performance with the above applications at the time of testing