



Systems

DELL Precision T7400

Thursday, June 19, 2008



Manufacture

Product
Web site
CPU
Memory
Graphics
Mother board revision
Operating Systems

DELL

T7400
www.dell.com
8 GB
NVIDIA Quadro FX 1700
Retail Windows XP SP2 32/Vista 32
OEM/SDK Windows XP SP2 32/64/Vista 32/64*

Tested Hardware

Bluefish444 Hardware

PCI 64 HD|Fury, HD|2K|Lust,
PCI 32 SD|Greed, SL|Pro, SD Ingest
PCI e SD|Fidelity, SD|Focus, SD|Prime

Bluefish444 Software

SDK
Retail installer

5.7.1.7 (Windows XP 32/64 Vista 32)
5.4.14 & 5.7.8 (Windows XP 32/ Vista 32)
Symmetry v 3.5.5, v 3.7.8
Adobe Production Studio 2/CS3.

System Certified for

Symmetry
Uncompressed SD, HD,
Adobe Production Studio.
Eyeon Fusion
Combustion
Supported 3rd party Applications



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;

Config	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
7	2K LUST/HD FURY	PCI 64	Acrea	Dulce	2K, HD, SD
8	2K LUST/HD FURY	PCI 64	RAIDCore	Ciprico Media vault 5108	2K, HD, 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	
NTSC	Y	Y	Y	Y	
PAL	Y	Y	Y	Y	
1920 x 1080 @ 23.98	Y	Y	Y	Y	
1920 x 1080 @ 24	Y	Y	Y	Y	
1920 x 1080 @ 25	Y	Y	Y	Y	
1920 x 1080 @ 29.97	Y	Y	Y	Y	
1920 x 1080 @ 30	Y	Y	Y	Y	
1280 x 720 @ 59.94	Y	Y	Y	Y	
1280 x 720 @ 60.00	Y	Y	Y	Y	
2048 x 1080 @ 24	Y	NA	NA	NA	
HSDL	Y	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	
NTSC	Y	Y	Y	Y	
PAL	Y	Y	Y	Y	
1920 x 1080 @ 23.98	Y	Y	Y	Y	
1920 x 1080 @ 24	Y	Y	Y	Y	
1920 x 1080 @ 25	Y	Y	Y	Y	
1920 x 1080 @ 29.97	Y	Y	Y	Y	
1920 x 1080 @ 30	Y	Y	Y	Y	
1280 x 720 @ 59.94	Y	Y	Y	Y	
1280 x 720 @ 60.00	Y	Y	Y	Y	
2048 x 1080 @ 24	Y	NA	NA	NA	
HSDL	Y	NA	NA	NA	



Configuration 3

Bluefish444 hardware	SD Greed (All PCI 32 bit Cards)	Slot 7/6/5
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
NTSC	Y	Y	Y	Y
PAL	Y	Y	Y	Y

Configuration 4

Bluefish444 hardware	SD Greed (All PCI 32 bit Cards)	Slot 7/6/5
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
NTSC	Y	Y	Y	Y
PAL	Y	Y	Y	Y

Configuration 5

Bluefish444 hardware	SD Greed (All PCI 32 bit Cards)	Slot 7/6/5
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
NTSC	Y	Y	Y	Y
PAL	Y	Y	Y	Y



Configuration 7

Bluefish444 hardware	2K Lust/ HD Fury	Slot 7/6
Controller	Acera	Slot 4
Storage	Dulce Pro DQ 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	
NTSC	Y	Y	Y	Y	
PAL	Y	Y	Y	Y	
1920 x 1080 @ 23.98	Y	Y	Y	Y	
1920 x 1080 @ 24	Y	Y	Y	Y	
1920 x 1080 @ 25	Y	Y	Y	Y	
1920 x 1080 @ 29.97	Y	Y	Y	Y	
1920 x 1080 @ 30	Y	Y	Y	Y	
1280 x 720 @ 59.94	Y	Y	Y	Y	
1280 x 720 @ 60.00	Y	Y	Y	Y	
2048 x 1080 @ 24	Y	NA	NA	NA	
HSDL	Y	NA	NA	NA	

Configuration 8

Bluefish444 hardware	2K Lust/ HD Fury	Slot 7/6
Controller	RAIDCore	Slot 4
Storage	Mediavault 5108 2 TB 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	
NTSC	Y	Y	Y	Y	
PAL	Y	Y	Y	Y	
1920 x 1080 @ 23.98	Y	Y	Y	Y	
1920 x 1080 @ 24	Y	Y	Y	Y	
1920 x 1080 @ 25	Y	Y	Y	Y	
1920 x 1080 @ 29.97	Y	Y	Y	Y	
1920 x 1080 @ 30	Y	Y	Y	Y	
1280 x 720 @ 59.94	Y	Y	Y	Y	
1280 x 720 @ 60.00	Y	Y	Y	Y	
2048 x 1080 @ 24	Y	NA	NA	NA	
HSDL	Y	NA	NA	NA	



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.

* under development, certain samples in the SDK are not fully supporting vista 64 bit and currently under development