Certified Systems

HP XW 8400

Wednesday, April 11, 2007

Manufacture	**HP**
Product	**XW 8400**
Web site	www.hp.com
CPU	2 X Intel Xeon 5150 Dual Core 2.66 4MB/1333 DC,
Memory	8 GB
Graphics	NVIDIA Quadro FX 1500 256MB PCIe
Operating Systems	Windows XP SP2
Driver Versions Installed	
Bios version	2.18 Rev A
Realtek High Definition Audio Driver (32-bit/64-bit)	1.54 Rev. A
Intel Chipset Software Installation Utility	7.3.1.1013 Rev. A
NVIDIA Quadro Professional Driver (x86)	91.63 Rev. A
Broadcom NetXtreme Gigabit Driver	9.52.0.0 Rev. A
LSI Logic SAS1064X Driver	1.21.07.00 Rev. A
Tested Hardware	
Bluefish444 Hardware	HD|Fury, HD|Lust, SD|Greed, SD|Fidelity, SD|Focus, SD|Prime RAGE N|Code
Bluefish444 Software	5.2.120, 5.4.5 Beta Symmetry v 3.3.1 Adobe Production Studio.
System Certified for	Uncompressed SD, HD, 2K, HD/SD MPEG 2 Encoding. Adobe Production Studio.

Tested Host Controllers

Controller	Firmware	Driver Version	
Adaptec 39320A-R PCI-X	4.25.0	v3.00S10	31 Jul 2006
ATTO UL5D PCI e		v 3.00	

Storage Solutions tested

- SCSI JBOD 12 x 72GB 10K SCSI drives RAID 0 software (Windows XP)
- 4 X 250 GB SAS Drives Internal RAID 0

Configuration Types

Configuration 1 ATTO UL5D PCI e

Storage Solution	SCSI JBOD 12 x 72GB 10K SCSI drives RAID 0 software (Windows XP)	
Controller card	ATTO UL5D PCI e	
Slot Configuration	ATTO UL5D PCI e	PCI e
	32 bit SD Cards	Slot 6 PCI X 100
	Rage N|Code	Slot 5 PCI X 133
	64 bit HD cards	Slot 7 PCI X 100
RAID Configuration	RAID O	

Configuration 2 Internal SAS RAID Controller

Storage Solution	4 SAS drives	
Controller card	Internal SAS controller	
Slot Configuration	32 bit SD Cards	Slot 6 PCI X 100
	Rage N|Code	Slot 5 PCI X 133
	64 bit HD cards	Slot 7 PCI X 100
RAID Configuration	RAID O	

	Resolution	**File Format Support**				
		DPX/Cineon 10 bit RGB/ TARGA 8 Bit RGB	QuickTime 10 bit YUV	Targa 8 Bit ARGBA	AVI 8 bit YUV	MPEG 2
Configuration 1	2K	Y	Y	Y	N/A	N/A
	HD	Y	Y	Y	Y	Y
	SD	Y	Y	Y	Y	Y
Configuration 2	2K	N	N	N	N/A	N/A
	HD	N	Y	N	Y	Y
	SD	Y	Y	Y	Y	Y

Legend
Y = Supports Single Stream I/O
N = Does not Support Single Stream I/O

Notes

10 bit RGB I/O
For 10 bit RGB file format support, it is recommend to use the pre create option when capturing clips must be logged with in and out points with “Pre create files” option on. Crash recording in 10 bit RGB can be achieved but with severely fragment the volume reducing array performance.

RT Performance
The Actual amount of streams supported by a solution may vary depending on bit depth the type of effect, application used and the system tested on. In this example Bluefish444 uses Premiere Pro 2.0 which supports 10 bit YUV uncompressed QuickTime file format as the default editing mode. Other applications or the use of lower bit depths in file formats may have a different result with the tested storage solution above.

Single Stream I/O testing procedure with Symmetry

1. Set the video mode to be tested (E.g. 1280 720p 59.94)
2. Set the file format to be tested (E.g. Cineon 10 bit RGB)
3. Select capture now
4. Capture 5 Clips at 1, 5, 10, 15, 30 minutes duration
5. Stop capture when each of the durations are reached
6. Capture two long form clips at a duration of 45 or 60 minutes
7. IF there are no dropped frames reported then the Storage configuration for that video mode and file format is supported

Multiple Streams Preview Playback testing procedure with Premiere Pro 2.0

1. Select the Project type.
2. Capture a range of clips that are 5 minutes in duration.
3. Each captured clip is considered a separate stream.
4. Load a different clip in each video layer 1 and 2 to test two video streams.
5. Set the opacity for clip in video 2.
6. Change the playback settings of the RT render quality to high med or low, start with high.
7. Play back the time line.
8. If the playback indicator is Green then real time play back preview is achieved. Continue to add another video stream and add opacity or and effect and repeat the process.
9. If the indicator is red then Real Time playback preview was not achieved, there fore reduce the amount of streams or reduce the quality level in Playback Settings.

Note;
The amount of video streams supported by the above tested products may vary with different applications and versions of premiere Pro plug ins. Bluefish444 uses a 10 bit YUV uncompressed video for I/O and editing mode and relies on the Adobe Premiere Pro 2.0 rendering engine for all effects and non v210 QuickTime file format previews.

Performance may be different with different computer systems and storage configurations Results found in this guide will be subject to change without notice.