

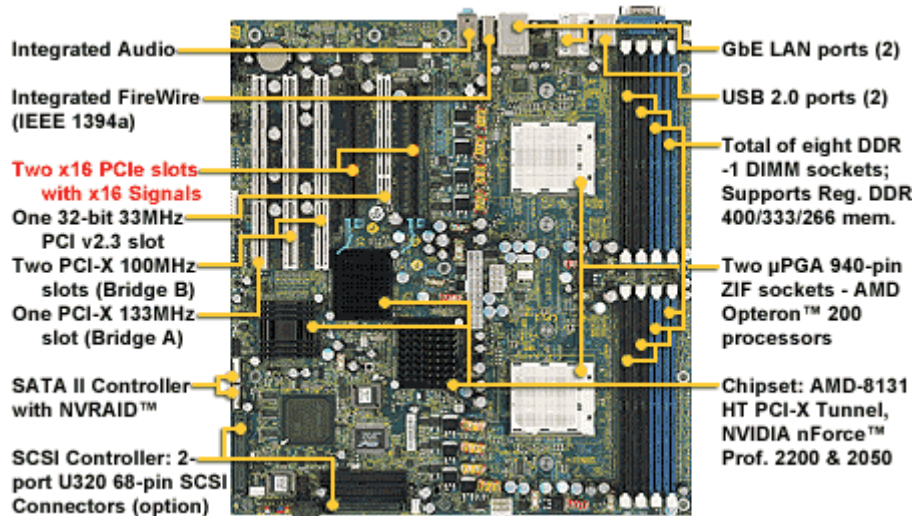


Motherboards

TYAN Thunder K8WE (S2895)

Tuesday, August 07, 2007

Manufacture TYAN
 Product Thunder K8WE (S2895)
 Web site http://www.tyan.com/product_board_detail.aspx?pid=151



Components

The following components were used at the time of testing

CPU AMD Opteron 252/2612 Mhz
 Memory 2 GB
 Graphics Nvidia Quadro FX1500, ATI 2900 XT
 Operating System Windows XP SP2
 Bluefish444 Hardware HD|Fury, HD|Lust, SD|Greed, Rage NCode (Acclera 3000)

Driver versions

| | |
|----------------------------------|--|
| Bios version | S2895_105 |
| Driver package | v670_XP_32bit 2006/01/09 |
| AMD 8131 drivers | Chipset AMD 8131 PCI-X 2005/08/08 |
| Adaptec SCSI Controller - 39320A | Ultra320 SCSI Drivers v7.0.0., Microsoft certified |
| Adaptec SAS Controller - 4805SAS | AACRAID 32-bit Driver v5.2.0.11737 |
| ATTO UL5D | winx86_drv_epciu320_304.exe |
| Nvidia | 91.85 |
| ATI | 7.6 catalyst drivers |
| Bluefish444 | Installer 5.4.9 driver 5.4.6 24 |
| Aspex Acclera (Rage N Code) | 2.02 |



DMA benchmarks

The following DMA performance was provide by the Bluefish444 DMA benchmark tool.

| Card | Slot | DMA performance, MB per/sec | |
|---------------------------|--------|-----------------------------|-------|
| | | Writes | Reads |
| HD Fury | 64 bit | 364 | 416 |
| HD Lust | 64 bit | 364 | 415 |
| SD Greed, (32 bit 33 Mhz) | 32 bit | 133 | 136 |
| SD Greed, (32 bit 66 Mhz) | 64 bit | 241 | 240 |
| SD Fidelity | PCI e | 121 | 118 |

Tested Storage solutions

Storage Solution 1

| | | |
|----------------------|-----------------------------|-------------------|
| Controller | Adaptec PCI X 39320A-R | PCI X Slot 6 |
| Storage | 8 X Seagate 10k SCSI 146 GB | RAID 0 (software) |
| Bluefish444 hardware | HD Fury | PCI X Slot 5 |

Storage Solution 2

| | | |
|----------------------|-----------------------------|-------------------|
| Controller | Atto UL5D | PCIe |
| Storage | 8 X Seagate 10k SCSI 146 GB | RAID 0 (software) |
| Bluefish444 hardware | HD Fury | PCI X Slot 5 |

Storage Solution 3

| | | |
|----------------------|--------------------------------|-----------------|
| Controller | Adaptec 4805SAS | PCIe |
| Storage | 8 X Maxtor Atlas 10k SAS 73 GB | RAID 0 Hardware |
| Bluefish444 hardware | HD Fury | PCI X Slot 5 |

The following capture tests were performed with Symmetry, capturing 10 minute clips with the above storage configurations.

| 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 | N+ |
| 1920 x 1080 @ 30 | Y | Y | Y | Y | N+ |
| 1280 x 720 @ 59.94 | Y | Y | Y | Y | N+ |
| 1280 x 720 @ 60.00 | Y | Y | Y | Y | N+ |
| 2048 x 1080 @ 24 | Y | Y | Y | Y | N |
| HSDL | Y | Y | Y | Y | N |

+ MPEG 2 encoding requires a combination of CPU performance. The current CPU performance was not adequate to encode reliably to these resolutions and frame rates.

For MPEG 2 encoding it is recommended to have two(2) dual core Intel 2.6 GHz or two (2) dual core AMD Opteron cpus (265 – 285)



* Symmetry Pre Create option is used during capture tests for sequential file format 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 within other applications. These results should be used as a guide to system performance with the above applications at the time of testing.