



## Motherboards

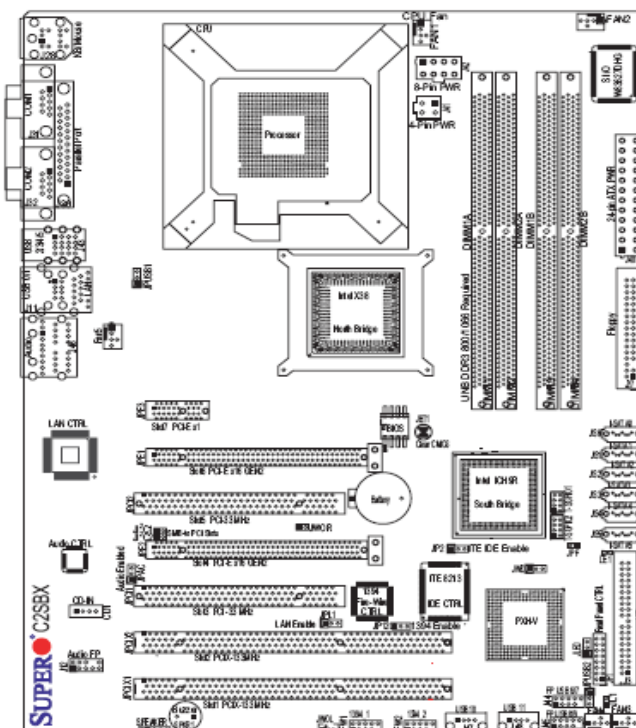
### Supermicro C2SBX

Manufacture Supermicro

Product C2SBX

Link <http://www.supermicro.com/products/motherboard/Core2Duo/X38/C2SBX.cfm>

Tuesday, April 08, 2008





## Components

The following components were used at the time of testing

CPU	Intel Core2 Duo E6850
Memory	4 GB DDR3 RAM
Graphics	Nvidia Quadro FX1700, ATI 2900 XT
Controllers	Intel® ICH9R SATA2
Chassis	
Operating System	Windows XP SP2

## Driver versions

Bios version	1.0b
Nvidia	Force ware 162.95
ATI	8.3 CATALYST
Bluefish444 Driver versions	5.7.1.7 5.4.26.0
Intel Chipset	8.6.0.1006

## DMA benchmarks

The following DMA performance was provided by the Bluefish444 DMA benchmark tool. DMA benchmarks measure a performance of transactions from the System memory to the target Bluefish444 card.

Card	Buss Type	DMA performance, MB per/sec						
		PCI-X Slot 1	PCI-X Slot 2	PCI-32 Slot 3	PCI-E Slot 4	PCI 32 Slot 5	PCI-E Slot 6	PCI-E Slot 7
2K Lust	PCI 64 66	R 394 W 342	R 393 W 341	N/A	N/A	N/A	N/A	N/A
HD Fury	PCI 64 66	R 394 W 342	R 393 W 342	N/A	N/A	N/A	N/A	N/A
SD Greed,	PCI 32 33/66	R 200 W 201	R 198 W 201	R 95 W 101	N/A	R 198 W 201	N/A	N/A
SD Fidelity	PCI e 1	N/A	N/A	N/A	R 125 W 129	N/A	R 125 W 129	N/A

W = Write in MB per sec

R = Read in MB per sec

SD|Fidelity card will not correctly install in the PCI e 1 lane slot due to the Memory module slots physical interference.



### 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,

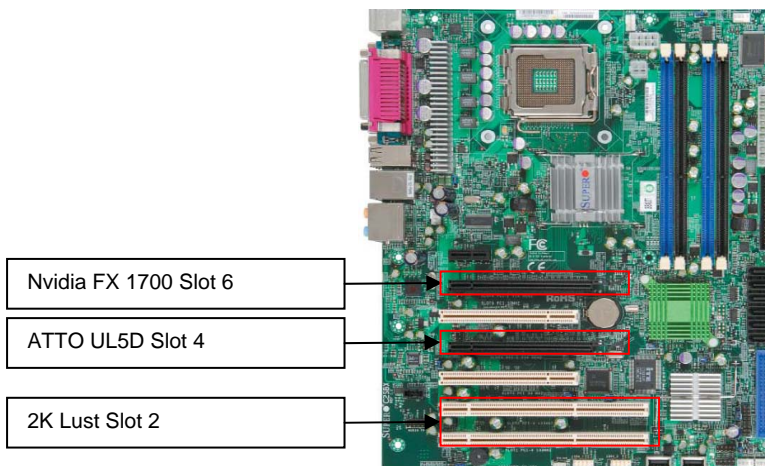
	Card		Controller	Storage	Application
1	2K LUST / HD FURY	PCI 64	ATTO UL5D	SCSI	2K,HD, SD
2	SD Greed	PCI 32	Intel® ICH9R SATA2	SATA2	SD
3	SD Fidelity	PCI e	Intel® ICH9R SATA2	SATA2	SD

### Configuration 1

Bluefish444 hardware  
Controller  
Storage

2K Lust / HD Fury  
ATTO UL5D  
12 X SCSI 80 GB SCSI RAID 0

Slot 1  
Slot 4



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 @ 24/23.98	Y	N/A	N/A	N/A	N/A
HSDL	Y	N/A	N/A	N/A	N/A

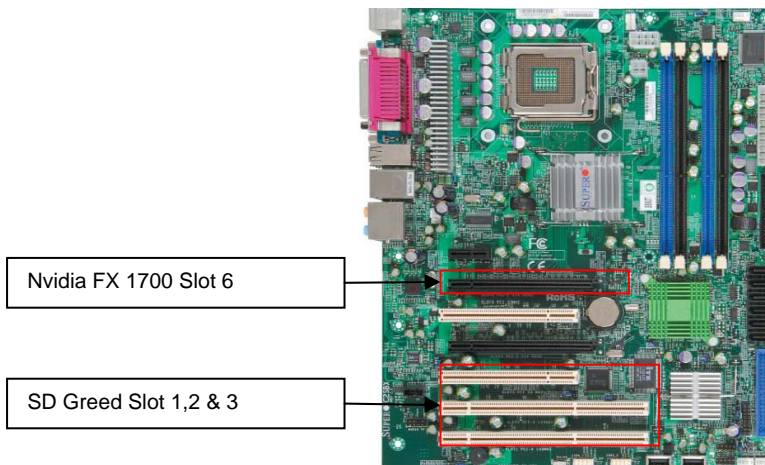


**Configuration 2**

Bluefish444 hardware  
Controller  
Storage

SD Greed  
Intel® ICH9R SATA2  
2X SATA 2 7400 RPM RAID0

Slot 2  
Slot 0



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

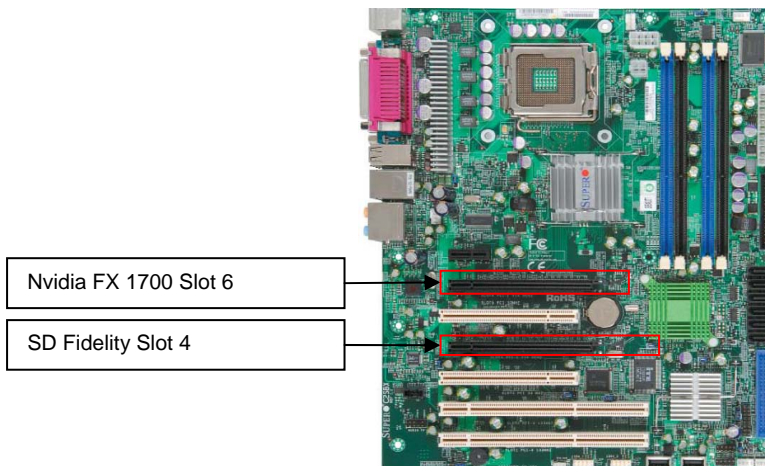


**Configuration 3**

Bluefish444 hardware  
Controller  
Storage

SD Greed  
Intel® ICH9R SATA2  
2X SATA 2 7400 RPM RAID0

Slot 2/3  
Slot 0



Single Stream I/O results (Symmetry)	Pixel format/File format				
	10 bit RGB DPX/Cineon*	10 bit v210 QuickTime	8bit RGBA TARGA*	8 bit YUV AVI	8 bit YUV MPEG2
Video Resolution					
NTSC	Y	Y	Y	Y	Y
PAL	Y	Y	Y	Y	Y



#### Capture/DMA 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.