



# CFP2000 Result

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## Supermicro

Motherboard X7DBR-8( 1.86GHz, Intel Xeon E5320 processor)

SPECfp\_rate2000 = 77.4

SPECfp\_rate\_base2000 = 77.5

SPEC license #01176 | Tested by: Supermicro | Test date: Oct-2006 | Hardware Avail: Nov-2006 | Software Avail: Mar-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	171	86.6	8	171	86.7
171.swim	8	693	41.5	8	691	41.6
172.mgrid	8	427	39.1	8	427	39.1
173.applu	8	462	42.1	8	462	42.1
177.mesa	8	83.3	156	8	83.3	156
178.galgel	8	104	258	8	104	258
179.art	8	124	195	8	124	195
183.quake	8	223	54.1	8	222	54.2
187.facerec	8	186	94.9	8	186	94.8
188.amp	8	221	92.4	8	217	94.0
189.lucas	8	403	46.0	8	404	46.0
191.fma3d	8	378	51.5	8	378	51.5
200.sixtrack	8	155	65.8	8	160	63.6
301.apsi	8	295	81.9	8	295	81.7

### Hardware

CPU: Intel Xeon E5320 processor ( 1.86 GHz,1066MHz bus)  
CPU MHz: 1860  
FPU: Integrated  
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
CPU(s) orderable: 1, 2 chips  
Parallel: N/A  
Primary Cache: 32KBI + 32KBD on chip per core  
Secondary Cache: 8MB(I+D) on chip, per chip (4MB shared per 2 cores)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 X 2GB DDR2 ECC CL5 667MHz FBDIMM  
Disk Subsystem: 1 X Seagate Barracuda 120GB 7200 RPM  
Other Hardware: N/A

### Software

Operating System: Windows Server 2003 Enterprise Edition 32-bits w/ SP1  
Compiler: Intel C++ and Fortran Compiler 9.1 for 32-bit applications  
Build 20060323Z Package ID: W\_FC\_P\_9.1.020  
Microsoft Visual Studio 2005(for libraries)  
SmartHeap Library Version 8.0 from <http://www.microquill.com/>  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
Base tuning for Fortran programs: -fast -Qansi_alias +FDO
Base tuning for 177.mesa: -fast +FDO shlw32M.lib
Base tuning for 179.art: -fast +FDO shlw32M.lib
Base tuning for 183.quake: -fast +FDO shlw32M.lib
Base tuning for 188.amp: -fast +FDO shlw32M.lib
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -fast -Qansi_alias +FDO
171.swim: -fast -Qansi_alias +FDO
172.mgrid: -fast -Qansi_alias +FDO
173.applu: basepeak=yes
177.mesa: basepeak=yes
178.galgel: -fast -Qansi_alias +FDO
179.art: basepeak=yes
183.quake: -QxP -Oa -Qrcd -Qipo +FDO shlw32M.lib
```



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## Notes/Tuning Information (Continued)

```
187.facerec: -fast -Qunroll11 -Qscalar_rep- +FDO
188.amp: -fast -Oa +FDO shlw32M.lib
189.lucas: -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
200.sixtrack: -Qipo -QxP +FDO
301.apsi: -fast +FDO
```

Tested systems can be used with SC816S-R700 case,  
To ensure system stability, a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]  
Product description located as of <http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DBR-8.cfm>  
The system bus runs at 1066 MHz  
shlw32m-80.lib is the V8.0 SmartHeap library renamed to co-exist with older versions