



CFP2000 Result

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Supermicro

Motherboard X7DBP-8 (3.00GHz, Intel Xeon 5160 processor)

SPECfp_rate2000 = 79.3

SPECfp_rate_base2000 = 79.3

SPEC license #01176 | Tested by: Supermicro | Test date: Jun-2006 | Hardware Avail: Jun-2006 | Software Avail: May-2005

250 200 150 100 50					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
					168.wupwise	4	73.6	101	4	73.6	101
					171.swim	4	263	54.7	4	263	54.7
					172.mgrid	4	165	50.5	4	166	50.5
					173.applu	4	187	52.1	4	185	52.6
					177.mesa	4	51.8	125	4	51.8	125
					178.galgel	4	56.4	239	4	56.1	240
					179.art	4	59.4	203	4	59.4	203
					183.earthquake	4	91.9	65.7	4	91.7	65.8
					187.facerec	4	90.8	97.1	4	90.8	97.0
					188.ammpp	4	141	72.2	4	144	71.1
					189.lucas	4	184	50.4	4	184	50.5
					191.fma3d	4	162	60.3	4	162	60.3
					200.sixtrack	4	97.4	52.4	4	96.8	52.7
					301.apsi	4	201	60.0	4	202	59.8

Hardware

CPU: Intel Xeon 5160 processor (3.00GHz, 4MB L2 shared, 1333 MHz bus)
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1, 2
 Parallel: No
 Primary Cache: 32KBI + 32KBD on chip, per core
 Secondary Cache: 4MB(I+D) on chip, per chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8 x 512MB 667MHz CL5 DDR2 FB-DIMM
 Disk Subsystem: 1 X WD 250GB 7200 SATA HDD
 Other Hardware:

Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition with SP1
 Compiler: Intel C++ and Fortran Compiler 9.0 for 32-bit applications Build 20050430Z (32-bit)
 Microsoft Visual Studio .Net 2003(for libraries)
 SmartHeap Library Version 7.4 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 shlw32M.lib +FDO
Base tuning for 179.art: -fast shlw32M.lib +FDO
Base tuning for 183.earthquake: -fast shlw32M.lib +FDO
Base tuning for 188.ammpp: -fast shlw32M.lib +FDO
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: -fast -Qscalar_rep- -Qauto +FDO
177.mesa: basepeak=yes
178.galgel: -fast -Qansi_alias +FDO
179.art: basepeak=yes
183.earthquake: -QxP -Oa -Qrcd -Qipo shlw32M.lib +FDO
```



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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 SC816-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 X7DBP:

<http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DBP-8.cfm>

The system bus runs at 1333 MHz