



CFP2000 Result

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Supermicro

Motherboard X7DBR-8+ (3.73GHz, Intel Dual-Core Xeon processor 5080)

SPECfp_rate2000 = 56.9

SPECfp_rate_base2000 = 57.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	167	88.7	8	167	88.7
171.swim	8	628	45.8	8	628	45.8
172.mgrid	8	424	39.4	8	425	39.3
173.applu	8	418	46.6	8	423	46.0
177.mesa	8	172	75.5	8	172	75.5
178.galgel	8	260	104	8	260	103
179.art	8	324	74.5	8	324	74.5
183.quake	8	236	51.0	8	237	51.0
187.facerec	8	245	71.8	8	245	71.9
188.amp	8	466	43.8	8	467	43.7
189.lucas	8	403	46.1	8	403	46.1
191.fma3d	8	425	45.8	8	425	45.8
200.sixtrack	8	241	42.4	8	248	41.1
301.apsi	8	391	61.7	8	390	61.9

Hardware

CPU: Intel Dual-Core Xeon processor 5080 (3.73 GHz, 2x2MB L2, 1066MHz bus)
 CPU MHz: 3733
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology enabled)
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 12k micro-ops I + 16KBD (on chip) per core
 Secondary Cache: 2MB(I+D) (on chip) per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16x1GB ECC DDR2-5300 CL5 FB-DRAM
 Disk Subsystem: 1x120GB 7200RPM ATA HDD
 Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise Edition 32-bits w/ 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.quake: -fast shlw32M.lib +FDO
Base tuning for 188.amp: -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.quake: -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 SC815S-700V case,

To ensure system stability, a 560W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]

Product description located as of X7BR-8+: <http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DBR-8+.cfm>

The system bus runs at 1066 MHz