



CFP2000 Result

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Supermicro
X6DH8-G2 (3.40 GHz Xeon, 1MB L2 Cache)

SPECfp_rate2000 = 23.4
SPECfp_rate_base2000 = 23.3

SPEC license #01176 | Tested by: Supermicro Inc., San Jose, CA | Test date: Jul-2004 | Hardware Avail: Jun-2004 | Software Avail: Dec-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	110	33.6	2	110	33.6
171.swim	2	276	26.0	2	276	26.0
172.mgrid	2	197	21.2	2	197	21.2
173.applu	2	240	20.3	2	237	20.6
177.mesa	2	103	31.5	2	102	31.7
178.galgel	2	190	35.5	2	190	35.5
179.art	2	449	13.4	2	435	13.9
183.quake	2	118	25.7	2	117	25.8
187.facerec	2	137	32.1	2	136	32.5
188.amp	2	277	18.5	2	277	18.5
189.lucas	2	195	23.8	2	196	23.6
191.fma3d	2	218	22.3	2	218	22.3
200.sixtrack	2	192	13.3	2	192	13.3
301.apsi	2	262	23.0	2	262	23.0

Hardware

CPU: Intel Xeon (3.4GHz, 800 MHz system bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (HT Technology enabled)
CPU(s) orderable: 1, 2
Parallel: No
Primary Cache: 12K(I) micro-ops + 16KB(D) on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: None
Other Cache: N/A
Memory: 8 x 1024MB ECC CL2.5 PC2 3200 DDRII SDRAM
Disk Subsystem: 1 x 73GB U320 SCSI, 10K RPM
Other Hardware:

Software

Operating System: Windows 2003 Enterprise Server w/ SP1 v.1184
Compiler: Intel C/C++ Compiler 8.0 (20031229Z)
Intel Fortran Compiler 8.0 (20031229Z)
Microsoft Visual Studio .NET (7.0.9466)
File System: NTFS
System State: Default

Notes/Tuning Information

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PORTABILITY
 178.galgel: -FI /F32000000
FEEDBACK DIRECTED OPTIMIZATION
ONESTEP=YES
FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
BASE TUNING
C/F77/F90: -QxN -Qipo -O3 +FDO
PEAK TUNING
168.wupwise: basepeak=yes
171.swim: basepeak=yes
172.mgrid: basepeak=yes
173.applu: -QxN -Qipo -O3 -Qscalar_rep- -Qauto +FDO
177.mesa: -QxN -Qipo -O3 -Oa +FDO
178.galgel: basepeak=yes
179.art: -Qipo -Oa -Qunroll4 -Zp4
183.quake: -QxN -Qipo -O3 -Oa -Qrcd +FDO
187.facerec: -QaxN -Qipo -O3 -Qunroll1 -Qscalar_rep- +FDO

```



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Notes/Tuning Information (Continued)

188. ammp: basepeak=yes
189. lucas: -QaxN -Qipo -O3
191. fma3d: basepeak=yes
200. sixtrack: basepeak=yes
301. apsi: basepeak=yes