



CFP2000 Result

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Supermicro
X6DA8-G2 (3.40 GHz Xeon, 1MB L3 Cache)

SPECfp_rate2000 = 21.8
SPECfp_rate_base2000 = 21.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	118	31.5	2	118	31.5
171.swim	2	284	25.4	2	284	25.4
172.mgrid	2	213	19.6	2	213	19.6
173.applu	2	260	18.7	2	250	19.5
177.mesa	2	115	28.4	2	111	29.2
178.galgel	2	209	32.3	2	209	32.3
179.art	2	538	11.2	2	505	12.0
183.quake	2	126	23.9	2	124	24.3
187.facerec	2	148	29.7	2	145	30.4
188.amp	2	294	17.4	2	294	17.4
189.lucas	2	207	22.5	2	204	22.8
191.fma3d	2	233	20.9	2	233	20.9
200.sixtrack	2	206	12.4	2	206	12.4
301.apsi	2	286	21.1	2	286	21.1

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 + 8KB(D) on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 1024KB(I+D) on chip
Other Cache: N/A
Memory: 2 x 256MB ECC CL4 PC2 3200 DDRII SDRAM
Disk Subsystem: 1 x 73GB U320 SCSI, 10K RPM
Other Hardware:

Software

Operating System: Windows 2003 Enterprise Server
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

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