



CFP2000 Result

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SuperMicro
P8SAA (3.6 GHz Pentium 4, 1MB L2 Cache)

SPECfp_rate2000 = 18.7
SPECfp_rate_base2000 = 18.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	162	22.8	2	161	23.0
171.swim	2	264	27.2	2	264	27.2
172.mgrid	2	247	16.9	2	247	16.9
173.applu	2	270	18.0	2	249	19.6
177.mesa	2	172	18.9	2	172	18.9
178.galgel	2	223	30.1	2	222	30.3
179.art	2	537	11.2	2	506	11.9
183.quake	2	138	21.9	2	140	21.6
187.facerec	2	160	27.5	2	160	27.6
188.amp	2	399	12.8	2	415	12.3
189.lucas	2	209	22.1	2	207	22.4
191.fma3d	2	278	17.5	2	278	17.5
200.sixtrack	2	256	9.97	2	256	9.98
301.apsi	2	384	15.7	2	387	15.6

Hardware

CPU: Intel Pentium 4 (3.6 GHz, 800 MHz system bus)
CPU MHz: 3600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology Enabled)
CPU(s) orderable: 1
Parallel: No
Primary Cache: 12k micro-ops I + 16KBD on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 4 x 512MB PC 4300 DDR2 SDRAM
Disk Subsystem: 1 x 200GB ATA133 IDE, 7200 RPM
Other Hardware:

Software

Operating System: Windows 2003 Enterprise Server
Compiler: Intel C/C++ Compiler 8.0 (20031229Z)
Intel C++ and Fortran Compiler 8.0 Build 20031017Z
Microsoft Visual Studio .Net 7.0.9466(for libraries)
File System: NTFS
System State: Default

Notes/Tuning Information

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
Base tuning: -QxN -fast -Qansi_alias +FDO
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -QxN -fast -Qansi_alias +FDO
171.swim: -QxN -fast -Qansi_alias +FDO
172.mgrid: -QxN -fast -Qansi_alias +FDO
173.applu: -QxN -fast -Qscalar_rep- -Qauto +FDO
177.mesa: -QxN -fast -Oa -Qscalar_rep- +FDO
178.galgel: -QxN -fast -Qansi_alias +FDO
179.art: -Oa -Qipo -Qunroll4 -Zp4
183.quake: -QxN -Oa -Qrcd -Qipo +FDO
187.facerec: -QxN -fast -Qunroll11 -Qscalar_rep- +FDO
188.amp: -Oa -QxN
189.lucas: -QxN -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
```



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxN +FDO
301.apsi: -QxN -fast +FDO