



# CFP2000 Result

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

SPECfp2000 = 1541  
SPECfp\_base2000 = 1537

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	82.2	1947	82.3	1944	[Bar chart showing ratio 1944]			
171.swim	3100	138	2244	138	2242	[Bar chart showing ratio 2242]			
172.mgrid	1800	127	1412	127	1413	[Bar chart showing ratio 1413]			
173.applu	2100	144	1461	139	1507	[Bar chart showing ratio 1507]			
177.mesa	1400	89.3	1568	89.3	1568	[Bar chart showing ratio 1568]			
178.galgel	2900	116	2497	116	2498	[Bar chart showing ratio 2498]			
179.art	2600	201	1292	203	1283	[Bar chart showing ratio 1283]			
183.quake	1300	72.9	1783	73.1	1777	[Bar chart showing ratio 1777]			
187.facerec	1900	95.5	1991	95.6	1988	[Bar chart showing ratio 1988]			
188.ammmp	2200	206	1069	205	1075	[Bar chart showing ratio 1075]			
189.lucas	2000	97.2	2059	97.2	2058	[Bar chart showing ratio 2058]			
191.fma3d	2100	144	1455	144	1455	[Bar chart showing ratio 1455]			
200.sixtrack	1100	170	647	169	653	[Bar chart showing ratio 653]			
301.apsi	2600	212	1224	212	1225	[Bar chart showing ratio 1225]			

### 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)  
Microsoft Visual Studio .NET (7.0.9466)  
Intel C++ and Fortran Compiler 8.0 Build 20031017Z  
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.ammmp: -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