



# CFP2000 Result

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**Supermicro**  
X6DHR-8XG (3.40 GHz Xeon, 1MB L3 Cache)

SPECfp\_rate2000 = 18.6  
SPECfp\_rate\_base2000 = 18.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	121	30.6	2	121	30.6
171.swim	2	406	17.7	2	406	17.7
172.mgrid	2	274	15.3	2	274	15.3
173.applu	2	343	14.2	2	334	14.6
177.mesa	2	109	29.9	2	104	31.1
178.galgel	2	247	27.3	2	247	27.3
179.art	2	650	9.28	2	617	9.77
183.quake	2	169	17.8	2	167	18.0
187.facerec	2	170	25.9	2	168	26.2
188.amp	2	337	15.1	2	337	15.1
189.lucas	2	269	17.2	2	262	17.7
191.fma3d	2	264	18.5	2	264	18.5
200.sixtrack	2	205	12.5	2	205	12.5
301.apsi	2	304	19.8	2	304	19.8

### 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: 8 x 2048MB ECC CL2 PC 2100 DDR 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