



# CFP2000 Result

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**Supermicro**  
X6DAR-8G (3.40 GHz Xeon, 1MB L3 Cache)

SPECfp\_rate2000 = 19.4  
SPECfp\_rate\_base2000 = 19.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	135	27.6	2	135	27.6
171.swim	2	346	20.8	2	346	20.8
172.mgrid	2	252	16.6	2	252	16.6
173.applu	2	295	16.5	2	292	16.7
177.mesa	2	110	29.6	2	111	29.2
178.galgel	2	222	30.3	2	222	30.3
179.art	2	611	9.87	2	586	10.3
183.quake	2	143	21.2	2	146	20.6
187.facerec	2	154	28.6	2	161	27.4
188.amp	2	326	15.6	2	326	15.6
189.lucas	2	233	19.9	2	242	19.2
191.fma3d	2	254	19.2	2	254	19.2
200.sixtrack	2	207	12.3	2	207	12.3
301.apsi	2	323	18.7	2	323	18.7

### Hardware

CPU: Intel Xeon (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: 4 x 512MB ECC CL2.5 PC 2700 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