



CFP2000 Result

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

SPECfp2000 = 1221
SPECfp_base2000 = 1220

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	97.0	1650	97.0	1650	
171.swim	3100	189	1641	189	1641	
172.mgrid	1800	155	1165	155	1165	
173.applu	2100	193	1085	189	1112	
177.mesa	1400	94.9	1475	95.0	1474	
178.galgel	2900	155	1876	155	1876	
179.art	2600	298	871	299	869	
183.quake	1300	97.4	1335	97.3	1336	
187.facerec	1900	122	1551	122	1557	
188.amp	2200	267	824	267	824	
189.lucas	2000	132	1520	133	1503	
191.fma3d	2100	179	1174	179	1174	
200.sixtrack	1100	182	605	182	605	
301.apsi	2600	245	1062	245	1062	

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