



CFP2000 Result

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Supermicro
X6DH8-G2 (3.40 GHz Xeon, 1MB L2 Cache)

SPECfp2000 = **1405**
SPECfp_base2000 = **1402**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	88.6	1806	88.6	1806	
171.swim	3100	141	2202	141	2202	
172.mgrid	1800	140	1287	140	1287	
173.applu	2100	155	1358	149	1405	
177.mesa	1400	94.8	1477	94.8	1477	
178.galgel	2900	132	2197	132	2197	
179.art	2600	260	998	257	1011	
183.quake	1300	79.3	1640	79.2	1641	
187.facerec	1900	108	1757	108	1754	
188.amp	2200	231	953	231	953	
189.lucas	2000	105	1913	106	1884	
191.fma3d	2100	158	1329	158	1329	
200.sixtrack	1100	180	610	180	610	
301.apsi	2600	219	1185	219	1185	

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 + 16KB(D) on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: None
Other Cache: N/A
Memory: 8 x 1024MB ECC CL2.5 PC2 3200 DDRII SDRAM
Disk Subsystem: 1 x 73GB U320 SCSI, 10K RPM
Other Hardware:

Software

Operating System: Windows 2003 Enterprise Server w/ SP1 v.1184
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