



CFP2000 Result

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Supermicro
X6DH8-XG2 (3.40 GHz Xeon, 1MB L2 Cache)

SPECfp2000 = **1400**
SPECfp_base2000 = **1397**

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	88.7	1805	88.7	1805	
171.swim	3100	142	2190	142	2190	
172.mgrid	1800	140	1284	140	1284	
173.applu	2100	155	1356	150	1402	
177.mesa	1400	94.1	1487	94.2	1486	
178.galgel	2900	132	2201	132	2201	
179.art	2600	268	970	265	980	
183.quake	1300	79.3	1638	79.2	1641	
187.facerec	1900	108	1760	108	1756	
188.amp	2200	232	946	232	946	
189.lucas	2000	105	1903	106	1885	
191.fma3d	2100	159	1323	159	1323	
200.sixtrack	1100	180	610	180	610	
301.apsi	2600	221	1176	221	1176	

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: N/A
 Other Cache: N/A
 Memory: 8 x 512GB ECC CL3 PC2 3200 DDRII 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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SPECfp2000 = 1400

SPECfp_base2000 = 1397

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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