



CFP2000 Result

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

SPECfp2000 = **1273**
SPECfp_base2000 = **1270**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	93.3	1714	93.3	1714	
171.swim	3100	173	1792	173	1792	
172.mgrid	1800	149	1210	149	1210	
173.applu	2100	178	1183	173	1216	
177.mesa	1400	94.7	1479	94.5	1482	
178.galgel	2900	144	2013	144	2013	
179.art	2600	307	847	303	858	
183.quake	1300	89.4	1455	89.4	1455	
187.facerec	1900	116	1644	115	1648	
188.amp	2200	256	860	256	860	
189.lucas	2000	125	1598	126	1582	
191.fma3d	2100	169	1241	169	1241	
200.sixtrack	1100	181	607	181	607	
301.apsi	2600	252	1032	252	1032	

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