



CFP2000 Result

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Supermicro
X6DHP-8G (3.60 GHz Xeon, 1MB L2 Cache)

SPECfp2000 = 1363
SPECfp_base2000 = 1360

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	88.5	1809	88.5	1809	
171.swim	3100	159	1953	159	1953	
172.mgrid	1800	140	1284	140	1284	
173.applu	2100	166	1262	163	1290	
177.mesa	1400	89.8	1559	89.8	1559	
178.galgel	2900	135	2155	135	2155	
179.art	2600	290	895	289	899	
183.quake	1300	78.7	1653	78.7	1652	
187.facerec	1900	113	1686	112	1695	
188.amp	2200	246	895	246	895	
189.lucas	2000	113	1763	114	1760	
191.fma3d	2100	160	1312	160	1312	
200.sixtrack	1100	171	642	171	642	
301.apsi	2600	225	1158	225	1158	

Hardware

CPU: Intel Xeon (3.6GHz, 800 MHz system bus)
CPU MHz: 3600
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: 6 x 1024MB 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)
MicroQuill SmartHeap Library 7.1
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