



CFP2000 Result

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Supermicro
SUPER P4SCT+II(3.4 GHz, Pentium 4 processor)

SPECfp2000 = **1456**
SPECfp_base2000 = **1454**

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	84.5	1892	84.5	1892	
171.swim	3100	145	2138	145	2138	
172.mgrid	1800	136	1328	136	1328	
173.applu	2100	158	1329	153	1370	
177.mesa	1400	94.2	1487	94.2	1487	
178.galgel	2900	119	2438	119	2438	
179.art	2600	204	1275	206	1265	
183.quake	1300	74.9	1736	74.9	1736	
187.facerec	1900	98.5	1930	99.8	1904	
188.amp	2200	212	1040	212	1040	
189.lucas	2000	115	1736	115	1740	
191.fma3d	2100	151	1395	151	1395	
200.sixtrack	1100	180	610	180	610	
301.apsi	2600	233	1114	233	1114	

Hardware

CPU: Pentium 4 processor (3.4 GHz, 800 MHz bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology enabled)
CPU(s) orderable: 1
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 256MB Unbuffered CL2.5 PC 3200 DDR SDRAM
Disk Subsystem: 1 x Seagate 40GB IDE
Other Hardware:

Software

Operating System: Windows XP Professional W/ SP1a
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
Used the "-u 2" option on the runspec command
Up to 4GB of Unbuffered DDR-400/333/266 memory
Hyper threading Enabled
ATX form factor optimized for 1U/2U/4U/Tower chassis
See Link for more chassis compatibility lists at
<http://www.supermicro.com/PRODUCT/Chassis/compatibility.htm>.