CFP2000 Result

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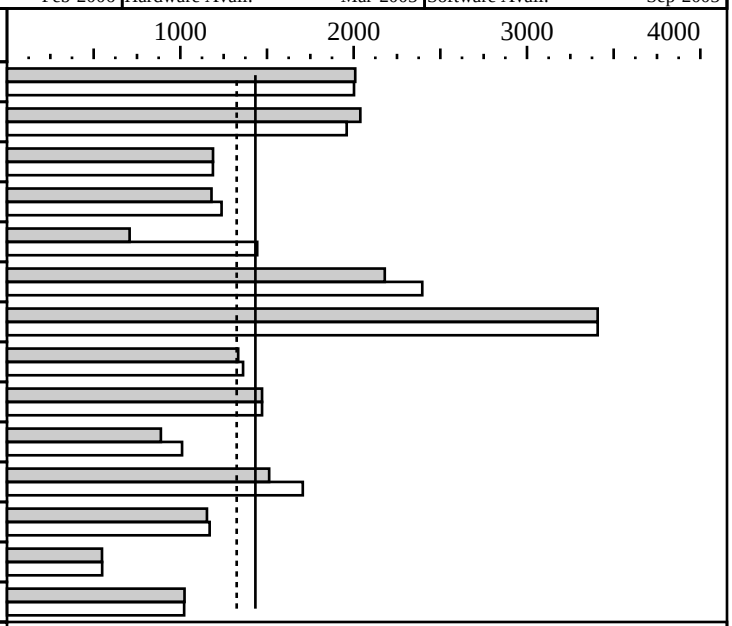
Supermicro
Motherboard H8DA8 rev2.01

SPECfp2000 = 1433

SPECfp_base2000 = 1325

SPEC license #01176 | Tested by: Supermicro | Test date: Feb-2006 | Hardware Avail: Mar-2005 | Software Avail: Sep-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	79.6	2009	79.9	2002
171.swim	3100	152	2038	158	1960
172.mgrid	1800	151	1189	152	1188
173.applu	2100	178	1180	170	1238
177.mesa	1400	198	707	97.0	1444
178.galgel	2900	133	2179	121	2396
179.art	2600	76.3	3408	76.3	3408
183.equake	1300	97.5	1334	95.5	1362
187.facerec	1900	129	1471	129	1471
188.ammp	2200	248	888	218	1010
189.lucas	2000	132	1512	117	1706
191.fma3d	2100	182	1154	180	1169
200.sixtrack	1100	201	548	200	549
301.apsi	2600	254	1024	254	1022



Hardware

CPU:	AMD Opteron 265
CPU MHz:	1800
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1
Parallel:	no
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB (I+D) (on chip) per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x512MB, Registered, ECC, Buffered, Single Rank, DDR400 CL3
Disk Subsystem:	Seagate Barracuda 7200.9, 120 GB, 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows 2003 Enterprise Edition W/SP1
Compiler:	Intel C++ 9.0 build 20050912Z for IA32, Intel Fortran 9.0 build 20050912Z for IA32, Microsoft Visual Studio .NET 7.0.9466 (libraries) PGI Fortran compiler 6.0-5 for Windows XP, PGI C compiler 6.0-5 for Windows XP, ACML Version 2.5.3 (bundled with PGI 6.0-5)
File System:	NTFS
System State:	default

Notes/Tuning Information

```
Tested by Supermicro Computer, Inc.
  +FDO:
   icl, ifort  : PASS1=-Qprof_gen  PASS2=-Qprof_use
   pgf90       : PASS1=-Mpfi       PASS2=-Mpfo
  ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
  pgf90 is the PGI Fortran 90 compiler.
  pgcc is the PGI C compiler.
  ONESTEP is set to 1 for every compile with the PGI compilers.
  Portability:
  178.galgel:                -Mfixed
  Baseline: C      :  pgcc    -fastsse -Mipa=fast,inline
  Baseline: Fortran:  pgf90   -fastsse -Mipa=fast,inline +FDO
  Peak tuning:
  168.wupwise:        pgf90   -fastsse -Mipa=fast,inline -Mnovect
  171.swim:           ifort   -Qipo  -O3  -QaxN -QxW -Qunroll0 +FDO
  172.mgrid:          pgf90   -fastsse -Mipa=fast,inline
  173.applu:          ifort   -Qipo  -O3 -QaxN -QxW -auto +FDO
```

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Notes/Tuning Information (Continued)

```
 177.mesa:           icl     -Qipo -QxW -Qunroll1 -Qansi_alias +FDO
                          -Qoption,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
 178.galgel:         pgf90   -fastsse -Mipa=fast,safe -Munix -lacml
                             RM_SOURCES=lapak.f90
 179.art:            pgcc     basepeak=yes
 183.equake:         icl     -O3 -Qipo -QxW +FDO
 187.facerec:        pgf90   basepeak=1
 188.ammp:           icl     -Oa   -QxW  -Zp4 -Qansi_alias
 189.lucas:          ifort   -Qipo -QxW -Qunroll1
 191.fma3d:          pgf90   -Mipa=fast,inline -fastsse -Mnovect +FDO
 200.sixtrack:       pgf90   -fastsse -Mipa=fast,inline
 301.apsi:           pgf90   -fastsse -Mipa=fast,inline
The system under test can be built with a ATX 650 power supply.
```