CFP2000 Result

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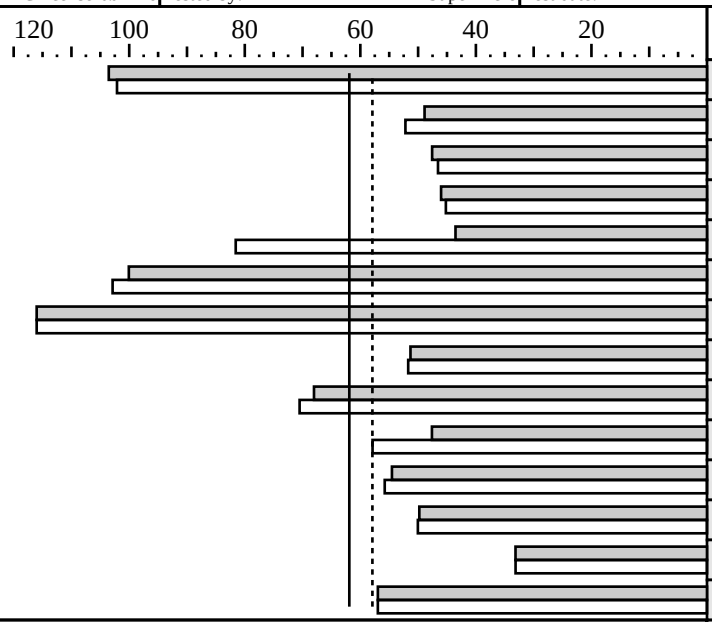
Supermicro
H8DS8 Motherboard

SPECfp_rate2000 = 61.9

SPECfp_rate_base2000 = 57.9

SPEC license #01176 | Tested by: Supermicro | Test date: Oct-2005 | Hardware Avail: Oct-2005 | Software Avail: Apr-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	71.7	104	4	72.7	102
171.swim	4	294	48.9	4	276	52.2
172.mgrid	4	176	47.6	4	179	46.6
173.applu	4	212	46.0	4	216	45.2
177.mesa	4	149	43.5	4	79.6	81.6
178.galgel	4	134	100	4	131	103
179.art	4	104	116	4	104	116
183.equake	4	118	51.3	4	117	51.7
187.facerec	4	130	68.0	4	125	70.5
188.ammp	4	214	47.6	4	176	57.9
189.lucas	4	170	54.5	4	166	55.8
191.fma3d	4	196	49.8	4	195	50.0
200.sixtrack	4	154	33.1	4	154	33.1
301.apsi	4	212	57.0	4	212	57.0

Hardware

CPU:	AMD Opteron (TM) 280
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2
Parallel:	no
Primary Cache:	64KBI + 64KBD per core on chip
Secondary Cache:	1024KB (I+D) per core on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x Kingston 2GB, Registered, ECC, DDR400, CL3
Disk Subsystem:	1X Hitachi SATA 400 GB 7200RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition w/ SP1
Compiler:	Intel C++ 9.0 build 20050430z for IA32, Intel Fortran 9.0 build 20050430z for IA32, PGI Fortran compiler 6.0-4 for Windows XP, PGI C compiler 6.0-4 for Windows XP, ACML Version 2.5.3 (bundled with PGI 6.0-4)
File System:	NTFS
System State:	default

Notes/Tuning Information

```
+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
177.mesa:           icl     -Qipo -arch:SSE2 -Qunroll1 -Qansi_alias +FDO
```

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Notes/Tuning Information (Continued)

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                        -Qoption,f,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
 178.galgel:         pgf90   -fastsse -Mipa=fast,safe RM_SOURCES=lapak.f90
                             -Munix -lacml
 179.art:            pgcc     basepeak=yes
 183.equake:         icl     -fast -arch:SSE2 -QaxW +FDO
 187.facerec:        pgf90   -fastsse -Mipa=fast,inline +FDO
 188.ammp:           icl     -Oa   -arch:SSE2  -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 an ATX 500W power supply
```