CFP2000 Result

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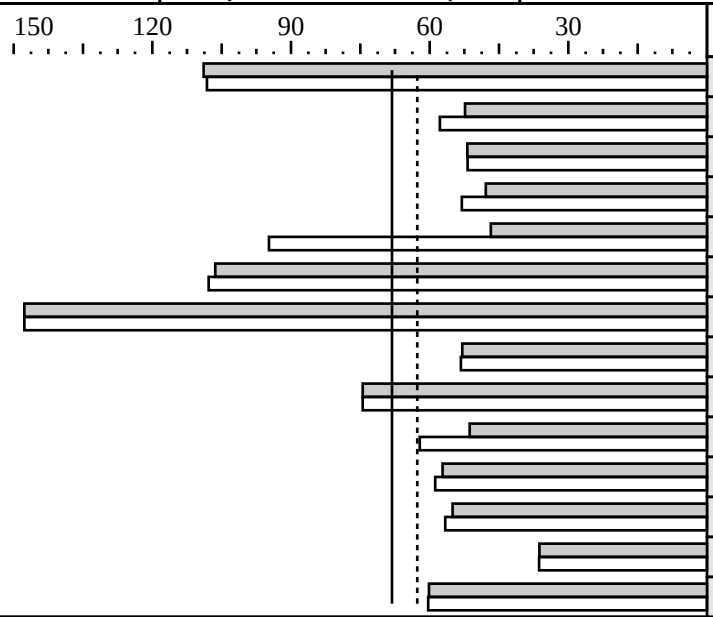
Supermicro

H8DSR-8 Motherboard (AMD Opteron(TM) 285)

SPECfp_rate2000 = 68.1

SPECfp_rate_base2000 = 62.7

SPEC license #01176 | Tested by: Supermicro | Test date: Apr-2006 | Hardware Avail: Apr-2006 | Software Avail: Oct-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	68.2	109	4	68.6	108
171.swim	4	275	52.4	4	249	57.8
172.mgrid	4	161	51.8	4	161	51.8
173.applu	4	204	47.9	4	184	53.0
177.mesa	4	139	46.8	4	68.5	94.8
178.galgel	4	126	106	4	125	108
179.art	4	81.7	148	4	81.7	148
183.equake	4	114	52.9	4	113	53.2
187.facerec	4	118	74.5	4	118	74.5
188.ammp	4	199	51.3	4	164	62.1
189.lucas	4	162	57.2	4	158	58.8
191.fma3d	4	177	55.0	4	172	56.6
200.sixtrack	4	141	36.3	4	141	36.3
301.apsi	4	201	60.2	4	200	60.3

Hardware

CPU:	AMD Opteron(TM) 285
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2
Parallel:	no
Primary Cache:	64KBI + 64KBD (on chip) per core
Secondary Cache:	1024KB (I+D) (on chip) per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8 X Apacer 78.A1071.404, 2GB DDR-400 CL3 ECC Reg
Disk Subsystem:	1 X IDE, Seagate ST3250823A 250GB
Other Hardware:	None

Software

Operating System:	Windows server 2003 Enterprise Edition 32-bit Version w/ Service Pack 1
Compiler:	Intel C++ 9.0 build 20050912Z for IA32, Intel Fortran 9.0 build 20050912Z for IA32, Microsoft Visual Studio .NET 2003 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

```
+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 -QxW -Qunroll1 -Qansi_alias +FDO
```

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Notes/Tuning Information (Continued)

```
                        -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
Tested systm was built with chassis SC813S+-500,
Product description located as of:
http://www.supermicro.com/Aplus/motherboard/Opteron/HT2000/H8DSR-8.cfm
To ensure system stability, a 600W (minimum) ATX power supply [8-pin (+12V) and (20+4)-pin are required] ) and 24-pin are required]
Other Configuration Notes
The start /b /wait /affinity command is used to bind CPU(s) to processes.
```