CFP2000 Result

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Supermicro

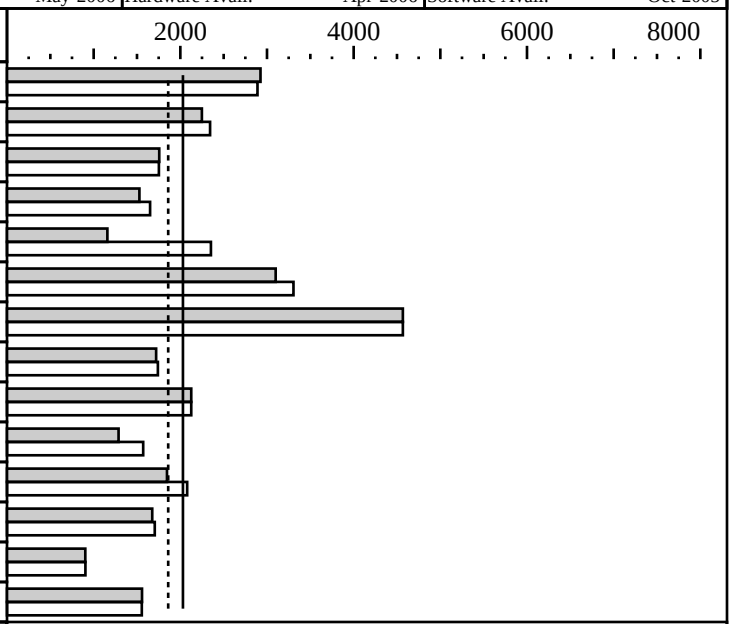
H8DSP-8/i Motherboard (AMD Opteron (TM) 256)

SPECfp2000 = 2030

SPECfp_base2000 = 1860

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	54.7	2925	55.4	2890
171.swim	3100	138	2249	132	2343
172.mgrid	1800	102	1757	103	1753
173.applu	2100	137	1528	127	1651
177.mesa	1400	121	1158	59.5	2353
178.galgel	2900	93.5	3100	87.7	3305
179.art	2600	56.9	4568	56.9	4568
183.equake	1300	75.5	1721	74.7	1741
187.facerec	1900	89.4	2126	89.4	2126
188.ammp	2200	171	1287	140	1571
189.lucas	2000	108	1846	96.2	2079
191.fma3d	2100	125	1676	123	1705
200.sixtrack	1100	122	903	122	905
301.apsi	2600	167	1558	167	1555



Hardware

CPU:	AMD Opteron (TM) 256
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1, 2
Parallel:	no
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4 x 2048 MB, DDR400, Reg, CL3, ECC, @ CPU 1 DIMM 1A 1B 2A 2B
Disk Subsystem:	1 X IDE, Hitachi 80 GB
Other Hardware:	None

Software

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

```
+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)

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                        -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 SC816S-(R)700 ,
Product description located as of:
http://www.supermicro.com/Aplus/motherboard/Opteron/HT2000/H8DSP-8.cfm
To ensure system stability, a 600W (minimum) ATX power supply [8-pin (+12V) and 24-pin are required]
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