



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.quake	1300	75.5	1721	74.7	1741	
187.facerec	1900	89.4	2126	89.4	2126	
188.amp	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

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+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 -Mvect
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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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

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.quake:      icl    -O3 -Qipo -QxW +FDO
187.facerec:    pgf90  basepeak=1
188.amp:        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 system 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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