



CFP2000 Result

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Supermicro H8DS8 Motherboard

SPECfp2000 = 1904

SPECfp_base2000 = 1753

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	57.9	2762	58.8	2722	
171.swim	3100	146	2121	139	2226	
172.mgrid	1800	110	1632	110	1631	
173.applu	2100	147	1428	135	1554	
177.mesa	1400	129	1087	68.5	2045	
178.galgel	2900	99.6	2912	92.8	3126	
179.art	2600	60.9	4270	60.9	4270	
183.earthquake	1300	80.0	1626	79.0	1645	
187.facerec	1900	96.2	1976	96.1	1977	
188.amp	2200	183	1205	150	1464	
189.lucas	2000	116	1731	102	1960	
191.fma3d	2100	132	1586	132	1594	
200.sixtrack	1100	130	845	130	845	
301.apsi	2600	167	1556	167	1558	

Hardware

CPU: AMD Opteron (TM) 254
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: no
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB (I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 2x 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 -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 -arch:SSE2 -Qunroll1 -Qansi_alias +FDO
```



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Notes/Tuning Information (Continued)

```
-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.quake:           icl     -fast -arch:SSE2 -QaxW +FDO
187.facerec:         pgf90  -fastsse -Mipa=fast,inline +FDO
188.amp:             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
```