



CFP2000 Result

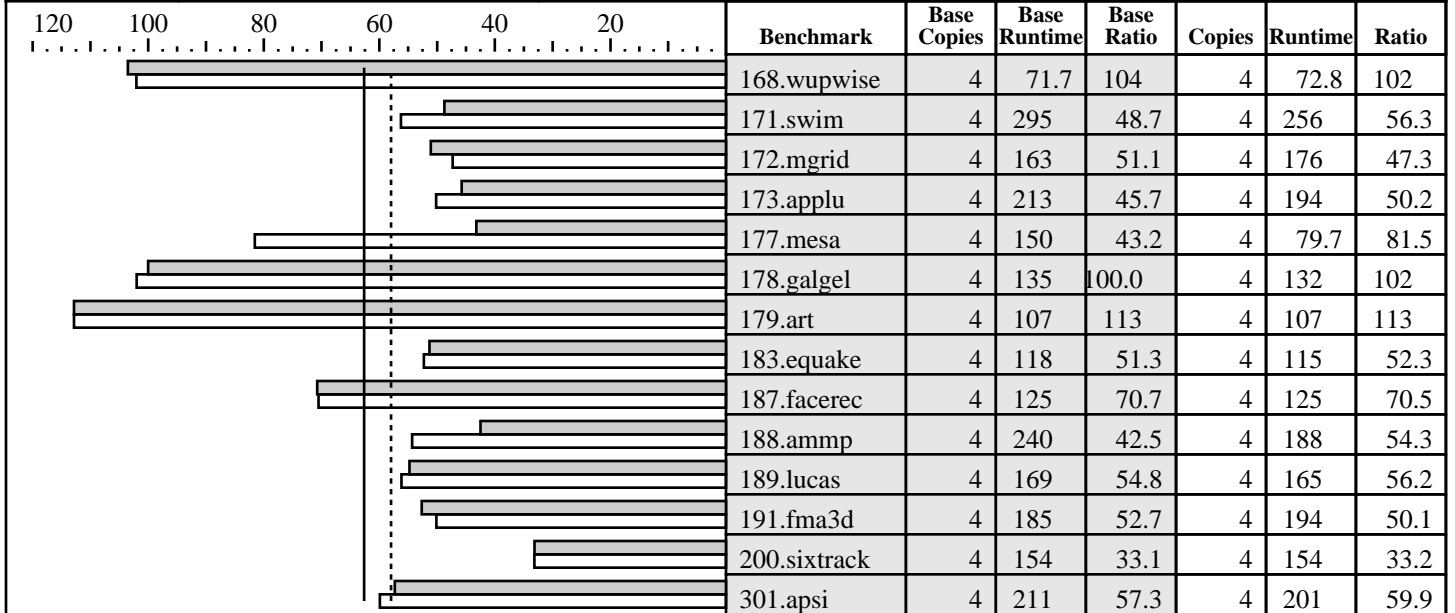
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Supermicro H8DSP-8 Motherboard

SPECfp_rate2000 = 62.6

SPECfp_rate_base2000 = 58.0

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



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: 8x Kingston 512MB, 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

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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 -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 450W power supply.