CFP2000 Result

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Advanced Micro Devices

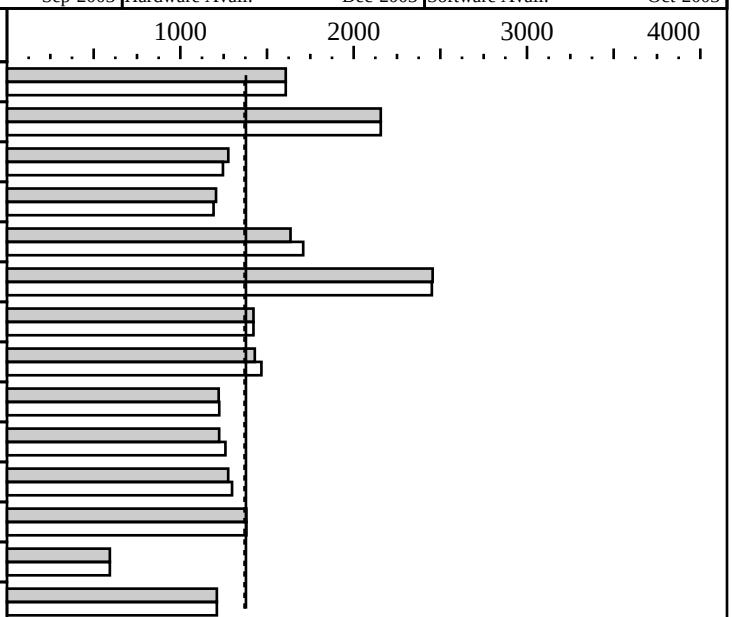
ASUS SK8N Motherboard, AMD Athlon (TM) FX-51

SPECfp2000 = 1378

SPECfp_base2000 = 1371

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Sep-2003 | Hardware Avail: Dec-2003 | Software Avail: Oct-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	99.5	1608	99.5	1608
171.swim	3100	144	2156	144	2156
172.mgrid	1800	141	1277	144	1246
173.applu	2100	174	1206	176	1192
177.mesa	1400	85.6	1636	81.9	1709
178.galgel	2900	118	2456	118	2451
179.art	2600	183	1422	183	1422
183.equake	1300	90.9	1430	88.6	1468
187.facerec	1900	156	1221	155	1225
188.ammp	2200	180	1224	175	1260
189.lucas	2000	157	1276	154	1298
191.fma3d	2100	152	1381	152	1381
200.sixtrack	1100	185	593	185	593
301.apsi	2600	215	1211	215	1211



Hardware

CPU:	AMD Athlon (TM) FX-51 ADAFX51CEP5AK
CPU MHz:	2200
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:	2x512MB PC3200 DDR SDRAM CL2.5, ECC Registered
Disk Subsystem:	Western Digital WD1200 IDE 120 GB
Other Hardware:	None

Software

Operating System:	SuSE Linux 9.0 Professional for AMD 64
Compiler:	PGI Fortran 5.0-2 and SuSE gcc33 optional compiler (from SLES8 SP2)
File System:	Linux/reiserfs
System State:	Multi-user SuSE Run level 3

Notes/Tuning Information

```
Binaries Cross-Compiled on a system running
  SLES 8 for AMD64 (SuSE Linux enterprise server) SP2
  +FDO: PASS1=-fprofile-arcs PASS2=-fbranch-probabilities
  pgf90 is the PGI Fortran compiler
  gcc is the SuSE optional gcc 3.3 compiler (from SLES8 SP2)
  Portability:
                    PORTABILITY=-DSPEC_CPU2000_LP64 is applied to all the C benchmarks.
    178.galgel:      -Mfixed
  Baseline: C       gcc  -O3 -funroll-all-loops +FDO
  Baseline: Fortran pgf90 -fastsse  -Mipa=fast
  Peak tuning:
    168.wupwise:    basepeak=true
    171.swim:       basepeak=true
    172.mgrid:      pgf90 -fast -Mipa=fast
    173.applu:      pgf90 -fast -Mipa=fast
    177.mesa:       gcc -O3 -funroll-all-loops -finline-limit=2000 +FDO
    178.galgel:     pgf90 -fastsse -Mipa=fast -O3
```

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Notes/Tuning Information (Continued)

```
    179.art:        gcc -O3 -funroll-all-loops -ffast-math -finline-limit=1500 +FDO
    183.equake:     gcc -O3 -funroll-all-loops -ffast-math -finline-limit=2000
    187.facerec:    pgf90 -fastsse -Mipa=fast -O3
    188.ammp:       gcc -O3 -funroll-all-loops -ffast-math -finline-limit=2000 +FDO
    189.lucas:      pgf90 -fastsse -Mipa=fast -Mnosmart
    191.fma3d:      basepeak=true
    200.sixtrack:   basepeak=true
    301.apsi:       basepeak=true
 ONESTEP is used for all base and peak runs
 Binaries are compiled in SLES8 for AMD64
The tested system can be assembled using an ATX case such as the Antec KS-282
and a 460W power supply such as the Antec True 460
ECC disabled
```