CFP2000 Result

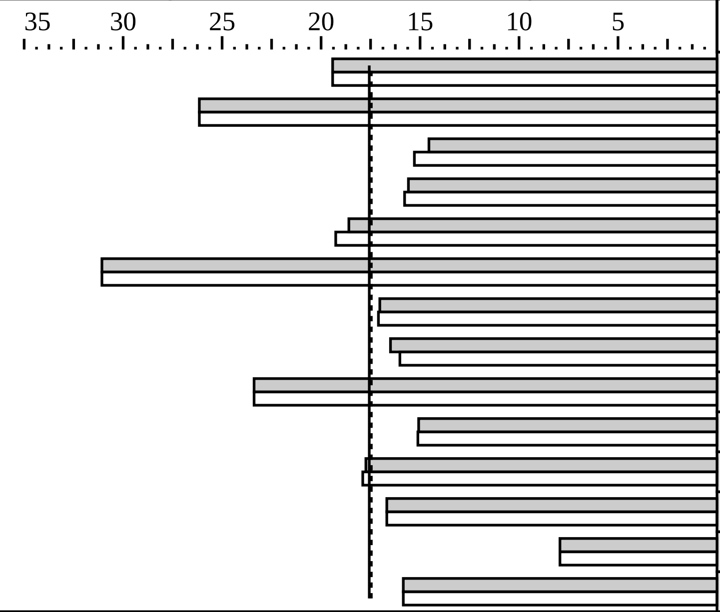
Advanced Micro Devices

ASUS SK8N Motherboard, AMD Opteron (TM) 148

SPECfp_rate2000 = 17.6

SPECfp_rate_base2000 = 17.5

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	95.6	19.4	1	95.6	19.4
171.swim	1	138	26.2	1	138	26.2
172.mgrid	1	143	14.6	1	137	15.3
173.applu	1	156	15.6	1	154	15.8
177.mesa	1	87.3	18.6	1	84.3	19.3
178.galgel	1	108	31.1	1	108	31.1
179.art	1	177	17.0	1	176	17.1
183.equake	1	91.4	16.5	1	94.1	16.0
187.facerec	1	94.2	23.4	1	94.2	23.4
188.ammp	1	169	15.1	1	169	15.1
189.lucas	1	131	17.7	1	130	17.9
191.fma3d	1	146	16.7	1	146	16.7
200.sixtrack	1	161	7.93	1	161	7.93
301.apsi	1	190	15.8	1	190	15.8

Hardware

CPU:	AMD Opteron (TM) 148
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:	2 x 512MB PC3200 DDR SDRAM, ECC Registered
Disk Subsystem:	Western Digital WD2000, IDE
Other Hardware:	None

Software

Operating System:	SuSE Linux 9.0 (AMD64) 2.4.21-102-default
Compiler:	PGI Fortran 5.1-0 and SuSE gcc 3.3.1 compiler (from SuSE Linux 9.0)
File System:	Linux/ext3
System State:	Multi-user SuSE Run level 3

Notes/Tuning Information

```
Tested by Advanced Micro Devices
  +FDO: PASS1=-fprofile-arcs PASS2=-fbranch-probabilities
  pgf90 is the PGI Fortran 5.1 compiler
  gcc is the SuSE gcc 3.3.1 compiler
  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:      basepeak=true
    179.art:         gcc -O3 -funroll-all-loops -ffast-math -finline-limit=1500 +FDO
```

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

Notes/Tuning Information (Continued)

```
    183.equake:     gcc -O3 -funroll-all-loops -ffast-math -finline-limit=2000
    187.facerec:    basepeak=true
    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
The tested system can be assembled using an ATX case such as the Antec KS-282,
a 480W power supply, and a PCI or AGP video card.
```