CFP2000 Result

Advanced Micro Devices

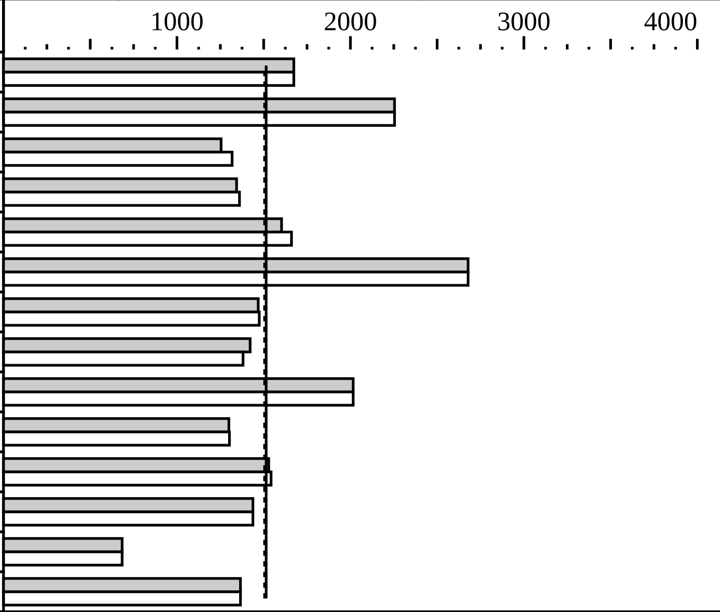
ASUS SK8N Motherboard, AMD Opteron (TM) 148

SPECfp2000 = 1514

SPECfp_base2000 = 1505

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	95.6	1674	95.6	1674
171.swim	3100	138	2254	138	2254
172.mgrid	1800	143	1254	137	1318
173.applu	2100	156	1344	154	1360
177.mesa	1400	87.3	1603	84.3	1660
178.galgel	2900	108	2679	108	2679
179.art	2600	177	1468	176	1474
183.equake	1300	91.4	1422	94.1	1381
187.facerec	1900	94.2	2016	94.2	2016
188.ammp	2200	169	1299	169	1303
189.lucas	2000	131	1529	130	1543
191.fma3d	2100	146	1438	146	1438
200.sixtrack	1100	161	684	161	684
301.apsi	2600	190	1366	190	1366



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
```

Notes/Tuning Information (Continued)

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   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.
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