



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.quake	1300	90.9	1430	88.6	1468	
187.facerec	1900	156	1221	155	1225	
188.amp	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)

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179.art:      gcc -O3 -funroll-all-loops -ffast-math -finline-limit=1500 +FDO
183.quake:   gcc -O3 -funroll-all-loops -ffast-math -finline-limit=2000
187.facerec: pgf90 -fastsse -Mipa=fast -O3
188.ampp:    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