CFP2000 Result

Advanced Micro Devices

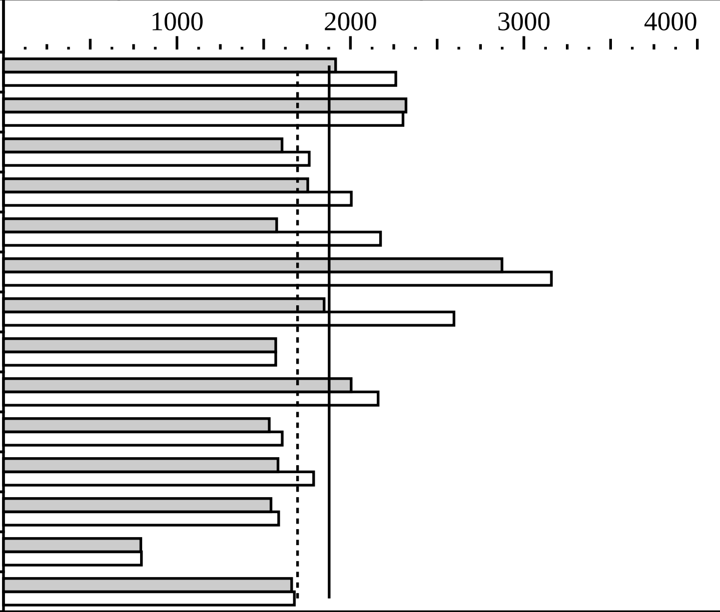
MSI K8N Neo2 Platinum Motherboard, AMD Athlon (TM) 64 FX-55

SPECfp2000 = 1878

SPECfp_base2000 = 1695

SPEC license #:	49	Tested by:	AMD, Austin, TX	Test date:	Oct-2004	Hardware Avail:	Oct-2004	Software Avail:	Aug-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	83.6	1915	70.7	2262
171.swim	3100	134	2320	135	2303
172.mgrid	1800	112	1606	102	1763
173.applu	2100	120	1754	105	2005
177.mesa	1400	88.9	1575	64.4	2174
178.galgel	2900	101	2874	91.8	3159
179.art	2600	141	1848	100	2597
183.equake	1300	82.8	1570	82.8	1570
187.facerec	1900	94.8	2004	88.0	2160
188.ammp	2200	144	1532	137	1607
189.lucas	2000	126	1583	112	1788
191.fma3d	2100	136	1542	132	1586
200.sixtrack	1100	139	792	138	795
301.apsi	2600	157	1661	155	1677



Hardware

CPU:	AMD Athlon (TM) 64 FX-55 (ADAFX55DEI5AS)
CPU MHz:	2600
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:	2x512 MB PC3200 DDR SDRAM CL2.0
Disk Subsystem:	IDE, Western Digital WD1200
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Sever for AMD64 (SP3)
Compiler:	PathScale EKO Compiler Suite, Release 1.3
File System:	Linux/ext3
System State:	Multi-user SuSE Run level 3

Notes/Tuning Information

```
 +FDO: PASS1= -fb_create fbdata  PASS2= -fb_opt fbdata
 +ACML is linking with AMD Core Math Library

 Baseline optimization
   C programs:       -Ofast -WOPT:mem_opnds=on +FDO
   Fortran programs: -Ofast -LNO:fusion=2
 Portability Flags:
   178.galgel: -fixedform

Peak Tuning:
 168.wupwise: -Ofast -LNO:prefetch_ahead=5:prefetch=3
              -OPT:unroll_times_max=8:unroll_size=128:IEEE_NaN_Inf=off:ro=3 -TENV:X=4
              -IPA:space=1000:linear=on:plimit=50000:callee_limit=5000
              -INLINE:aggressive=on
 171.swim:    -Ofast -LNO:fusion=2:prefetch=2
```

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Notes/Tuning Information (Continued)

```
    172.mgrid:   -O3 -LNO:fusion=2:blocking=off:prefetch=2
                 -OPT:Ofast:unroll_times_max=8:unroll_size=256:ro=3
                 -CG:gcm=off:cflow=off
    173.applu:   -Ofast -CG:local_fwd_sched=on
                 -LNO:fusion=2:fission=2:full_unroll_size=10000:prefetch=3
                 -OPT:ro=3 -TENV:X=3 -WOPT:val=2
    177.mesa:    -O2 -ipa -OPT:Ofast -fno-math-errno -CG:local_fwd_sched=on +FDO
    178.galgel:  -Ofast -OPT:fast_complex -CG:load_exe=0:use_movlpd=on +ACML
    179.art:     -O3 -OPT:ro=2:div_split=on:alias=typed -fno-math-errno -m32 +FDO
    183.equake:  basepeak = true
    187.facerec:  -Ofast -OPT:treeheight=on:IEEE_NaN_Inf=off:ro=3 -CG:load_exe=0
                  -LNO:fusion=2:prefetch=0 +FDO -IPA:plimit=1800
    188.ammp: -O3 -OPT:alias=disjoint:unroll_times_max=8:Ofast:ro=3 -LNO:prefetch=0
              -fno-math-errno -TENV:X=4 +FDO
   189.lucas: -Ofast -CG:prefetch=off:load_exe=2:local_fwd_sched
              -TENV:X=4 -WOPT:retype_expr=on +FDO
    191.fma3d: -O2 -ipa -WOPT:mem_opnds=on:retype_expr=on -OPT:Ofast:IEEE_arith=3:ro=3
               +FDO -IPA:pu_reorder=1
    200.sixtrack:= -Ofast +FDO
    301.apsi: -Ofast -TENV:X=4 -LNO:fusion=2:prefetch=0
    The tested system can be assembled using an ATX case such as the Antec P160,
    a 550W power supply such as the Antec True Power 550, and a PCI or AGP video card.
    BIOS rev. v1.3
    High Performance defaults set in BIOS
    Memory timings manually set in BIOS: CAS=2.0, TRCD=2, TRAS=5, TRP=2
    Dynamic Overclocking Disabled in BIOS
    Memory used is Corsair CMX512-3200XLPRO, configured in dual channel mode
```