



CFP2000 Result

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Advanced Micro Devices
ASUS A8N-SLI Deluxe, AMD Athlon (TM) 64 FX-57

SPECfp2000 = 2261
SPECfp_base2000 = 2086

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Jun-2005 Hardware Avail: Jun-2005 Software Avail: Aug-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	51.5	3106	48.2	3320	[Bar chart showing ratio 3320]			
171.swim	3100	125	2473	121	2573	[Bar chart showing ratio 2573]			
172.mgrid	1800	98.0	1837	90.2	1997	[Bar chart showing ratio 1997]			
173.aplu	2100	94.0	2234	85.9	2444	[Bar chart showing ratio 2444]			
177.mesa	1400	64.6	2169	60.5	2316	[Bar chart showing ratio 2316]			
178.galgel	2900	86.4	3357	77.5	3743	[Bar chart showing ratio 3743]			
179.art	2600	92.4	2813	66.3	3920	[Bar chart showing ratio 3920]			
183.quake	1300	72.6	1792	65.2	1993	[Bar chart showing ratio 1993]			
187.facerec	1900	73.6	2580	69.8	2724	[Bar chart showing ratio 2724]			
188.amp	2200	136	1614	126	1746	[Bar chart showing ratio 1746]			
189.lucas	2000	88.8	2252	88.8	2252	[Bar chart showing ratio 2252]			
191.fma3d	2100	120	1748	119	1765	[Bar chart showing ratio 1765]			
200.sixtrack	1100	123	895	116	945	[Bar chart showing ratio 945]			
301.apsi	2600	150	1736	144	1806	[Bar chart showing ratio 1806]			

Hardware

CPU: AMD Athlon (TM) 64 FX-57
CPU MHz: 2800
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 WD2500
Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 9 (SP2) for AMD64
Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.1
File System: Linux/ext3
System State: Multi-user, run level 3

Notes/Tuning Information

+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata
+ACML means -L/opt/acml2.5.1/pathscale64/lib -lacml,
which causes linking with AMD Core Math Library V2.5.1

Baseline optimization

C programs: -Ofast -WOPT:mem_opnds=on +FDO
Fortran programs: -Ofast -LNO:fusion=2 -OPT:fast_complex=on +FDO
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
-IPA:linear=on:plimit=50000:callee_limit=5000
-INLINE:aggressive=on
171.swim: -Ofast -LNO:fusion=2 -m3dnow



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Notes/Tuning Information (Continued)

172.mgrid: -O3 -LNO:fusion=2:blocking=off
-OPT:Ofast:unroll_times_max=8:unroll_size=256:ro=3
-CG:gcm=off:cflow=off -m3dnow

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

177.mesa: -O2 -ipa -OPT:Ofast -fno-math-errno -CG:local_fwd_sched=on +FDO

178.galgel: -Ofast -OPT:fast_complex=on +ACML

179.art: -O3 -OPT:ro=2:div_split=on:alias=typed -fno-math-errno -m32

183.quake: -Ofast -CG:load_exe=2 -OPT:treeheight=on -WOPT:mem_opnds=on
-m32 +FDO

187.facerec: -Ofast -OPT:IEEE_NaN_Inf=off:ro=3 -LNO:fusion=2
-IPA:plimit=1500 +FDO

188.ammmp: -O3 -OPT:alias=disjoint:unroll_times_max=8:Ofast:ro=3
-fno-math-errno -TENV:X=4 +FDO

189.lucas: basepeak = true

191.fma3d: -O2 -ipa -CG:load_exe=1 -OPT:Ofast:IEEE_arith=3:ro=3
-WOPT:mem_opnds=on:retype_expr=on -IPA:pu_reorder=1 +FDO

200.sixtrack:= -O3 -OPT:Ofast:Olimit=6000 -fno-math-errno -CG:load_exe=1 +FDO

301.apsi: -Ofast -TENV:X=4 -LNO:fusion=2:prefetch=0

The tested system can be assembled using a standard ATX form factor, an Antec True 550 EPS12V power supply, and a PCI or PCIe graphics card.
Memory timings manually set in BIOS: CAS=2, TRCD=2, TRAS=5, TRP=2
Memory used is Corsair CMX512-3200XLPRO configured in dual channel mode.
BIOS version V6.00PG