



CFP2000 Result

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Acer Incorporated
Altos G5350 (AMD (TM) Opteron 252)

SPECfp2000 = 2119
SPECfp_base2000 = 1955

SPEC license #: 97 Tested by: Acer Incorporated Test date: Jul-2005 Hardware Avail: Jun-2005 Software Avail: Apr-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	57.5	2784	52.0	3078	
171.swim	3100	120	2586	117	2653	
172.mgrid	1800	103	1746	94.4	1908	
173.applu	2100	100	2099	91.7	2291	
177.mesa	1400	69.2	2022	65.4	2140	
178.galgel	2900	90.2	3216	81.3	3567	
179.art	2600	102	2556	73.9	3517	
183.quake	1300	77.7	1674	71.1	1828	
187.facerec	1900	80.9	2350	74.8	2541	
188.amp	2200	148	1491	136	1614	
189.lucas	2000	96.3	2076	96.3	2076	
191.fma3d	2100	128	1641	127	1655	
200.sixtrack	1100	132	832	125	881	
301.apsi	2600	159	1630	154	1689	

Hardware

CPU: AMD Opteron (TM) 252
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB (I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4x1024MB, DDR400 CL3 ECC
 Disk Subsystem: 1 x 36GB 10000RPM U320 SCSI HD
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 9 for x86_64 SP1
 Compiler: PathScale EKOPATH(TM) Compiler Suite, Release 2.1
 AMD Core Math Library (ACML) v2.6.0
 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/acml2.6.0/pathscale64/lib -lacml,
 which causes linking with AMD Core Math Library V2.6.0

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)

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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

```