CFP2000 Result

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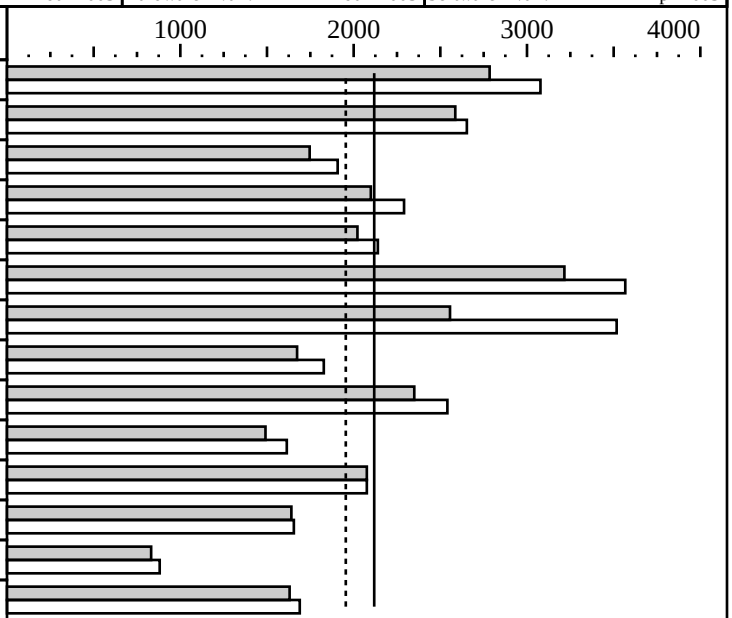
Acer Incorporated
Altos G5350 (AMD (TM) Opteron 252)

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.equake	1300	77.7	1674	71.1	1828
187.facerec	1900	80.9	2350	74.8	2541
188.ammp	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)

```
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.equake:     -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.ammp:       -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
```