CFP2000 Result

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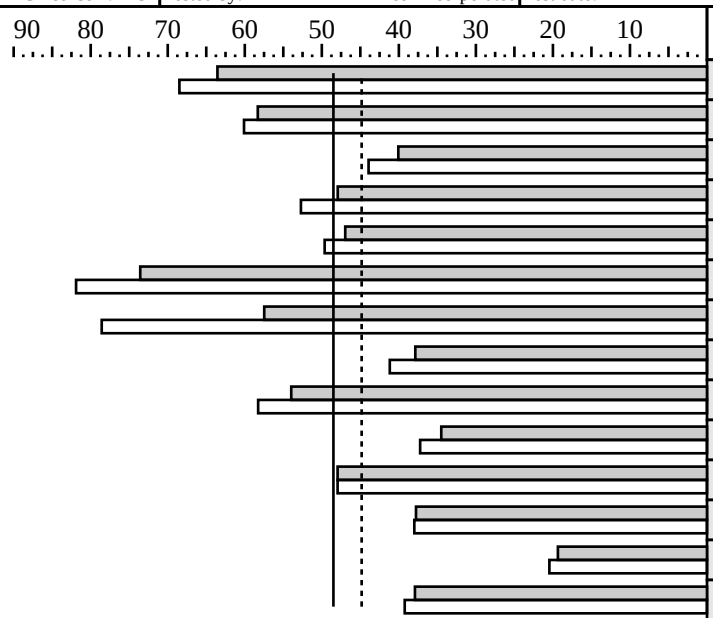
Acer Incorporated
Altos G5350 (AMD Opteron (TM) 252)

SPECfp_rate2000 = 48.5

SPECfp_rate_base2000 = 44.8

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	58.4	63.5	2	54.2	68.5
171.swim	2	123	58.3	2	120	60.1
172.mgrid	2	104	40.1	2	95.1	43.9
173.applu	2	102	47.9	2	92.4	52.7
177.mesa	2	69.2	47.0	2	65.4	49.6
178.galgel	2	91.5	73.6	2	82.2	81.9
179.art	2	105	57.5	2	76.8	78.6
183.equake	2	79.7	37.9	2	73.2	41.2
187.facerec	2	81.7	54.0	2	75.7	58.3
188.ammp	2	148	34.5	2	137	37.2
189.lucas	2	96.8	48.0	2	96.8	48.0
191.fma3d	2	129	37.8	2	128	38.0
200.sixtrack	2	132	19.4	2	125	20.5
301.apsi	2	159	37.9	2	154	39.2

Hardware

CPU:	AMD Opteron (TM) 252
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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:	8x512MB, 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
```