SPEC® CFP2006 Result

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Acer Incorporated

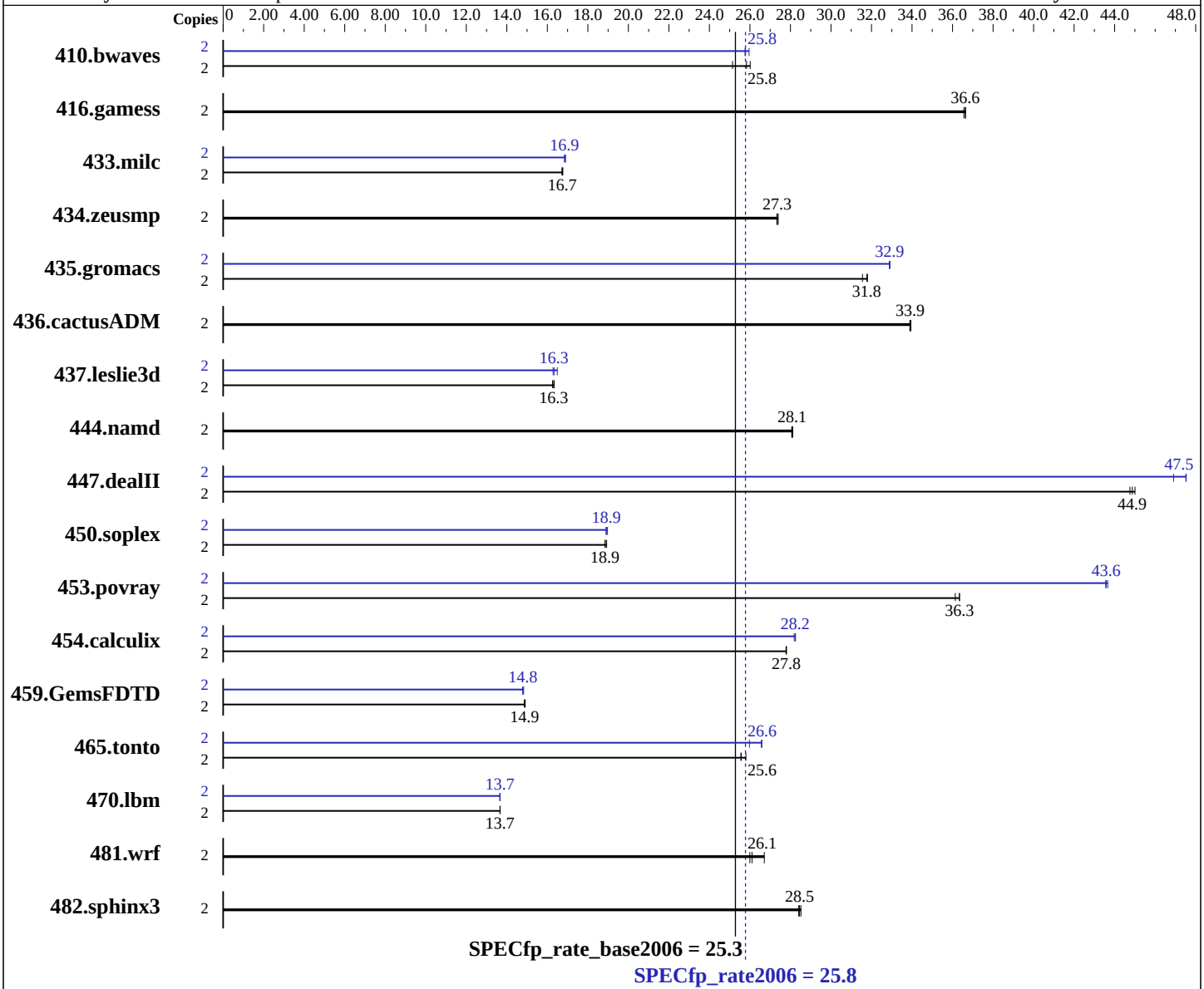
Acer Altos G330 (Intel Xeon 3070, 2.66 GHz)

SPECfp®_rate2006 = 25.8

SPECfp_rate_base2006 = 25.3

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Apr-2007
Hardware Availability: Nov-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon 3070
CPU Characteristics:	1066MHz system bus
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip

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Software

Operating System:	SUSE Linux Enterprise Server 10 EM64T (Kernel 2.6.16.21-0.8-smp)
Compiler:	Intel C++ Compiler 9.1 for Intel EM64T-based Package ID l_cc_c_9.1.042 Build no 20060707 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101
Auto Parallel:	No
File System:	ReiserFS

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L3 Cache: None
Other Cache: None
Memory: 4 GB (4 x 1024MB ECC DDR2-667 CL5-5-5)
Disk Subsystem: 1 x 320GB 7200RPM SATA HDD
Other Hardware: None

System State: Default
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: --

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1081	25.1	1045	26.0	**1052**	**25.8**	2	**1055**	**25.8**	1047	26.0	1055	25.8
416.gamess	2	1071	36.6	1069	36.6	**1069**	**36.6**	2	1071	36.6	1069	36.6	**1069**	**36.6**
433.milc	2	**1097**	**16.7**	1095	16.8	1098	16.7	2	1090	16.8	1086	16.9	**1089**	**16.9**
434.zeusmp	2	666	27.3	664	27.4	**666**	**27.3**	2	666	27.3	664	27.4	**666**	**27.3**
435.gromacs	2	453	31.6	**450**	**31.8**	449	31.8	2	434	32.9	**434**	**32.9**	434	32.9
436.cactusADM	2	704	33.9	**705**	**33.9**	705	33.9	2	704	33.9	**705**	**33.9**	705	33.9
437.leslie3d	2	1151	16.3	1157	16.3	**1152**	**16.3**	2	1154	16.3	**1151**	**16.3**	1140	16.5
444.namd	2	**571**	**28.1**	572	28.1	571	28.1	2	**571**	**28.1**	572	28.1	571	28.1
447.dealII	2	508	45.0	511	44.8	**510**	**44.9**	2	488	46.9	**482**	**47.5**	481	47.5
450.soplex	2	881	18.9	885	18.9	**885**	**18.9**	2	883	18.9	**882**	**18.9**	879	19.0
453.povray	2	293	36.3	294	36.1	**293**	**36.3**	2	244	43.6	**244**	**43.6**	244	43.7
454.calculix	2	**594**	**27.8**	593	27.8	594	27.8	2	584	28.3	**584**	**28.2**	585	28.2
459.GemsFDTD	2	1423	14.9	1428	14.9	**1426**	**14.9**	2	1431	14.8	**1434**	**14.8**	1436	14.8
465.tonto	2	**770**	**25.6**	770	25.6	763	25.8	2	758	26.0	740	26.6	**741**	**26.6**
470.lbm	2	2011	13.7	**2010**	**13.7**	2010	13.7	2	2012	13.7	**2011**	**13.7**	2011	13.7
481.wrf	2	**856**	**26.1**	859	26.0	836	26.7	2	**856**	**26.1**	859	26.0	836	26.7
482.sphinx3	2	1367	28.5	**1370**	**28.5**	1372	28.4	2	1367	28.5	**1370**	**28.5**	1372	28.4

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

General Notes

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

470.lbm: Same as 433.milc

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: -prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: Same as 410.bwaves

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Peak Optimization Flags (Continued)

459.GemsFDTD: `Same as 410.bwaves`

465.tonto: `Same as 410.bwaves`

Benchmarks using both Fortran and C:

435.gromacs: `-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast -auto_ilp32`

436.cactusADM: `basepeak = yes`

454.calculix: `Same as 435.gromacs`

481.wrf: `basepeak = yes`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.xml`

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