SPEC® CFP2006 Result

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Acer Incorporated

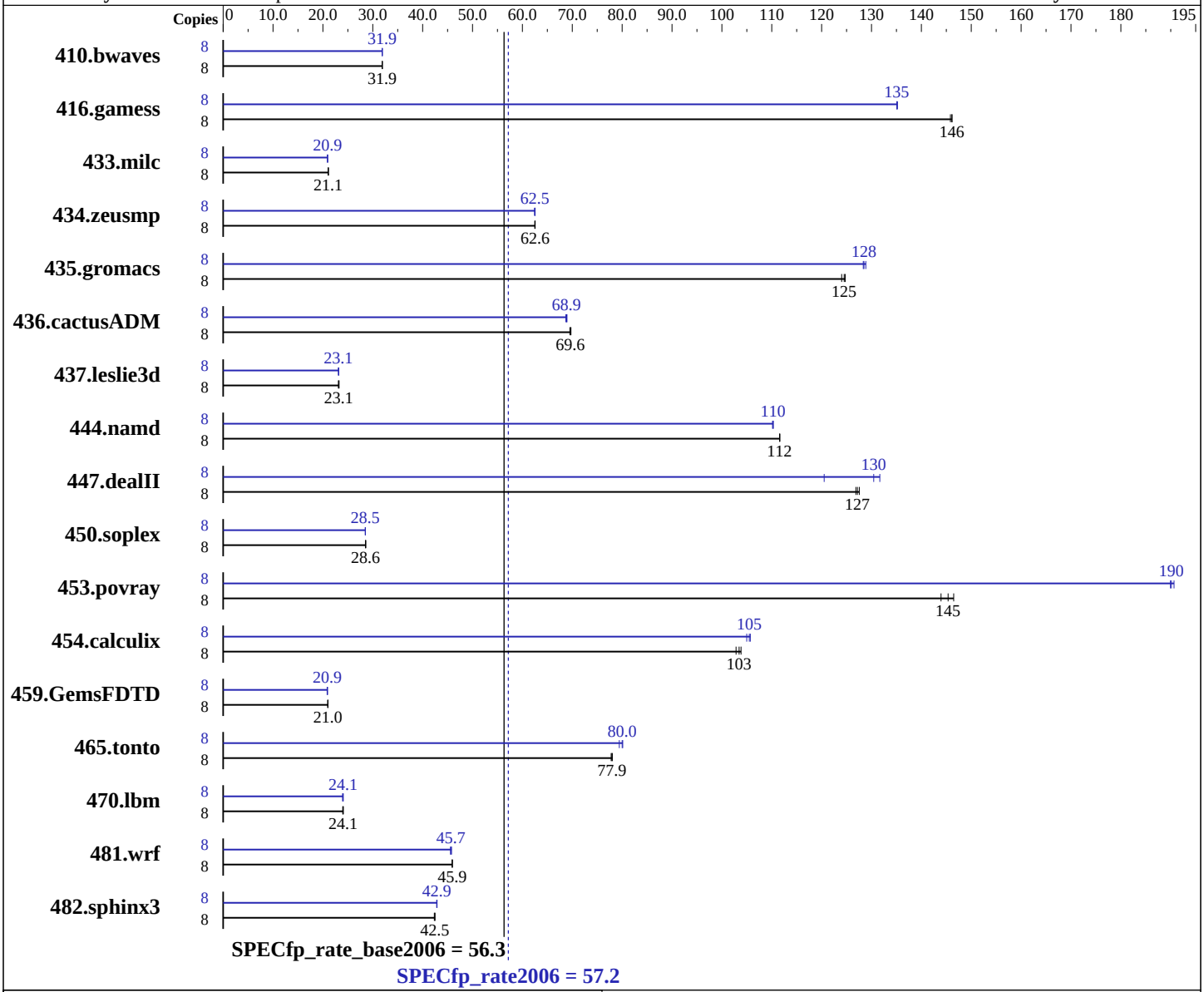
Acer Altos G540 (Intel Xeon X5355, 2.66GHz)

SPECfp®_rate2006 = 57.2

SPECfp_rate_base2006 = 56.3

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

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



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	1333MHz system bus
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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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:	NTFS

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 x 2048MB ECC FB-DIMM DDR2-667 CL5-5-5)
Disk Subsystem: 1 x 73GB 10000RPM SAS 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	8	3407	31.9	3409	31.9	**3408**	**31.9**	8	**3408**	**31.9**	3407	31.9	3410	31.9
416.gamess	8	1072	146	**1072**	**146**	1074	146	8	1159	135	**1160**	**135**	1160	135
433.milc	8	**3484**	**21.1**	3482	21.1	3484	21.1	8	3511	20.9	3507	20.9	**3507**	**20.9**
434.zeusmp	8	1165	62.5	1164	62.6	**1164**	**62.6**	8	1166	62.4	1164	62.6	**1164**	**62.5**
435.gromacs	8	**459**	**125**	458	125	461	124	8	443	129	**445**	**128**	445	128
436.cactusADM	8	**1373**	**69.6**	1371	69.7	1375	69.5	8	1391	68.7	1387	68.9	**1388**	**68.9**
437.leslie3d	8	3235	23.2	3251	23.1	**3250**	**23.1**	8	3253	23.1	**3251**	**23.1**	3243	23.2
444.namd	8	**575**	**112**	575	112	575	112	8	582	110	582	110	**582**	**110**
447.dealII	8	721	127	**720**	**127**	718	128	8	695	132	**702**	**130**	759	121
450.soplex	8	2333	28.6	**2335**	**28.6**	2339	28.5	8	2341	28.5	**2340**	**28.5**	2339	28.5
453.povray	8	296	144	**293**	**145**	291	146	8	**224**	**190**	223	191	224	190
454.calculix	8	636	104	**638**	**103**	642	103	8	624	106	**626**	**105**	629	105
459.GemsFDTD	8	4050	21.0	**4042**	**21.0**	4036	21.0	8	**4064**	**20.9**	4054	20.9	4071	20.8
465.tonto	8	1009	78.0	**1010**	**77.9**	1012	77.8	8	983	80.1	991	79.4	**984**	**80.0**
470.lbm	8	**4567**	**24.1**	4566	24.1	4585	24.0	8	4567	24.1	4592	23.9	**4569**	**24.1**
481.wrf	8	1946	45.9	**1945**	**45.9**	1945	45.9	8	**1957**	**45.7**	1951	45.8	1961	45.6
482.sphinx3	8	3683	42.3	**3673**	**42.5**	3672	42.5	8	**3638**	**42.9**	3642	42.8	3635	42.9

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:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

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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