SPEC® CFP2006 Result

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Acer Incorporated

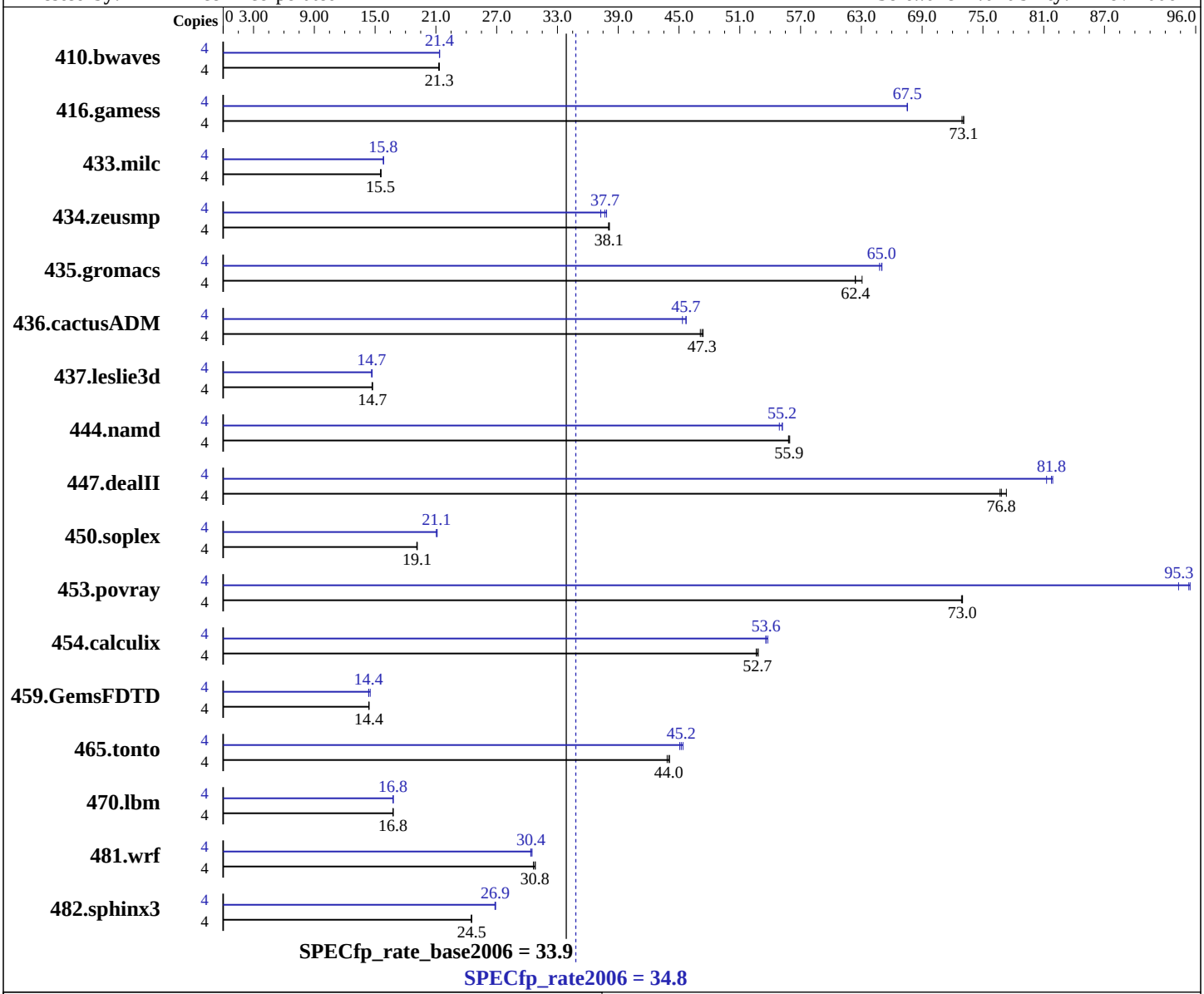
Acer Altos G540 (Intel Xeon X5355, 2.66GHz)

SPECfp®_rate2006 = 34.8

SPECfp_rate_base2006 = 33.9

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:	4 cores, 1 chip, 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

Continued on next page

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:	16 GB (8 x 2048MB ECC FB-DIMM DDR2-667)
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	4	**2549**	**21.3**	2548	21.3	2554	21.3	4	2547	21.3	2544	21.4	**2546**	**21.4**
416.gamess	4	**1072**	**73.1**	1071	73.1	1074	72.9	4	1159	67.6	**1159**	**67.5**	1160	67.5
433.milc	4	**2362**	**15.5**	2362	15.5	2356	15.6	4	**2321**	**15.8**	2317	15.9	2322	15.8
434.zeusmp	4	**956**	**38.1**	957	38.0	955	38.1	4	977	37.3	**966**	**37.7**	962	37.9
435.gromacs	4	**458**	**62.4**	453	63.1	458	62.4	4	439	65.0	441	64.8	**439**	**65.0**
436.cactusADM	4	1009	47.4	1015	47.1	**1011**	**47.3**	4	**1046**	**45.7**	1054	45.3	1046	45.7
437.leslie3d	4	**2551**	**14.7**	2550	14.7	2558	14.7	4	2556	14.7	**2563**	**14.7**	2566	14.7
444.namd	4	**574**	**55.9**	574	55.9	575	55.8	4	581	55.2	584	54.9	**581**	**55.2**
447.dealII	4	592	77.3	597	76.7	**596**	**76.8**	4	**560**	**81.8**	563	81.3	559	81.9
450.soplex	4	**1743**	**19.1**	1745	19.1	1741	19.2	4	1579	21.1	**1584**	**21.1**	1584	21.1
453.povray	4	292	72.9	292	73.0	**292**	**73.0**	4	226	94.3	**223**	**95.3**	223	95.5
454.calculix	4	**626**	**52.7**	627	52.6	625	52.8	4	616	53.6	614	53.8	**616**	**53.6**
459.GemsFDTD	4	**2949**	**14.4**	2949	14.4	2950	14.4	4	2954	14.4	**2954**	**14.4**	2923	14.5
465.tonto	4	893	44.1	**895**	**44.0**	898	43.8	4	**870**	**45.2**	873	45.1	867	45.4
470.lbm	4	3275	16.8	**3276**	**16.8**	3277	16.8	4	3276	16.8	**3276**	**16.8**	3274	16.8
481.wrf	4	1459	30.6	1450	30.8	**1452**	**30.8**	4	1471	30.4	**1470**	**30.4**	1465	30.5
482.sphinx3	4	3177	24.5	**3179**	**24.5**	3183	24.5	4	2898	26.9	**2903**	**26.9**	2905	26.8

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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