SPEC® CFP2006 Result

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Acer Incorporated

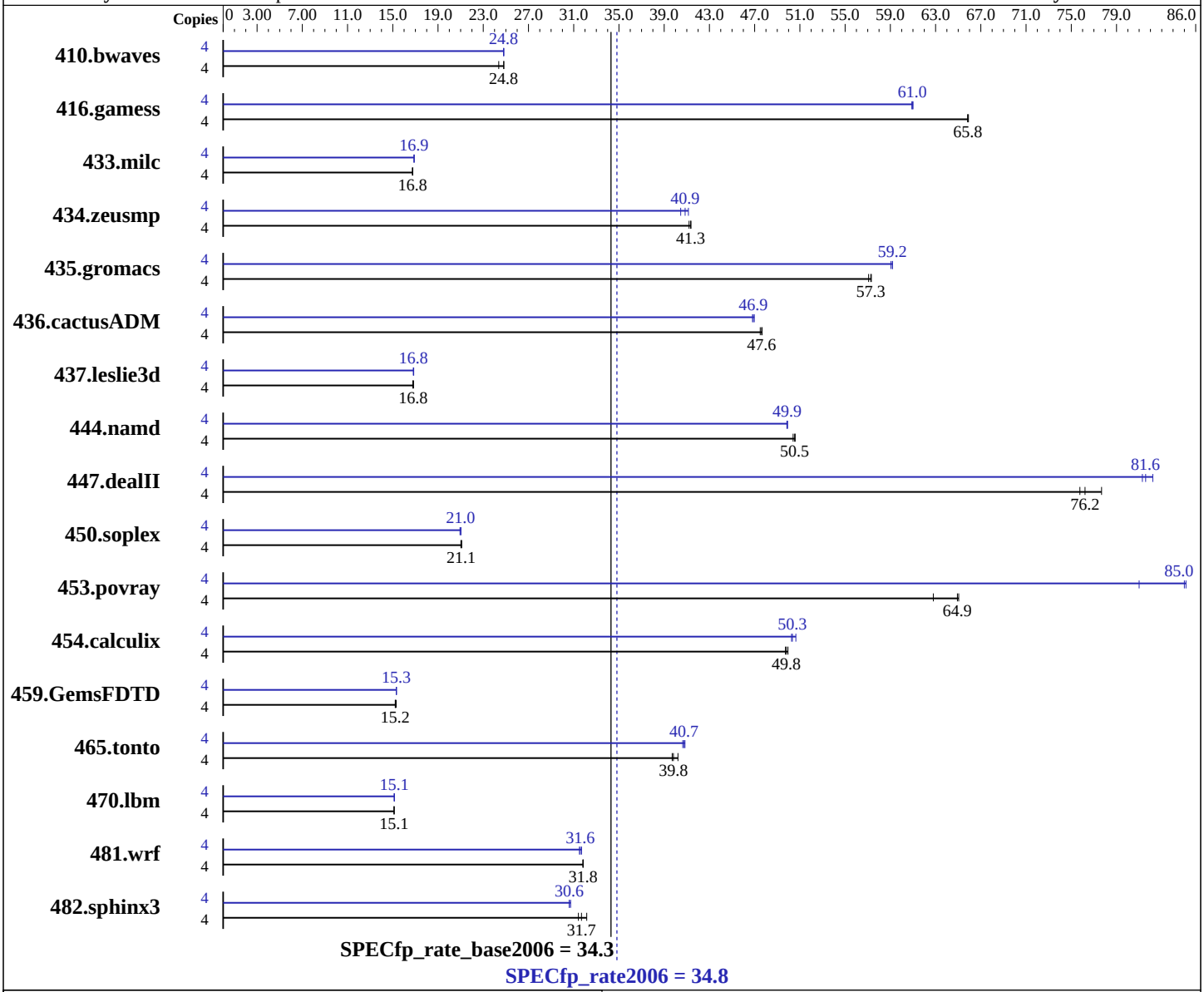
Acer Altos G330 (Intel Xeon X3220, 2.4 GHz)

SPECfp®_rate2006 = 34.8

SPECfp_rate_base2006 = 34.3

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

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



Hardware

CPU Name:	Intel Xeon X3220
CPU Characteristics:	1066MHz system bus
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
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:	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	4	2231	24.4	2190	24.8	**2191**	**24.8**	4	**2192**	**24.8**	2192	24.8	2190	24.8
416.gamess	4	**1189**	**65.8**	1189	65.8	1188	65.9	4	**1285**	**61.0**	1284	61.0	1286	60.9
433.milc	4	2194	16.7	2190	16.8	**2192**	**16.8**	4	2174	16.9	2176	16.9	**2175**	**16.9**
434.zeusmp	4	883	41.2	**880**	**41.3**	880	41.4	4	885	41.1	**891**	**40.9**	900	40.5
435.gromacs	4	**499**	**57.3**	498	57.3	500	57.1	4	**483**	**59.2**	484	59.0	483	59.2
436.cactusADM	4	1006	47.5	**1004**	**47.6**	1003	47.7	4	**1020**	**46.9**	1018	47.0	1021	46.8
437.leslie3d	4	2242	16.8	**2238**	**16.8**	2234	16.8	4	2231	16.9	**2234**	**16.8**	2235	16.8
444.namd	4	634	50.6	**635**	**50.5**	636	50.4	4	643	49.9	644	49.8	**643**	**49.9**
447.dealII	4	589	77.7	**600**	**76.2**	604	75.8	4	557	82.2	563	81.3	**561**	**81.6**
450.soplex	4	1581	21.1	**1584**	**21.1**	1587	21.0	4	**1589**	**21.0**	1593	20.9	1586	21.0
453.povray	4	339	62.8	327	65.0	**328**	**64.9**	4	263	81.0	250	85.1	**250**	**85.0**
454.calculix	4	**663**	**49.8**	661	49.9	664	49.7	4	652	50.6	**656**	**50.3**	657	50.3
459.GemsFDTD	4	2774	15.3	2788	15.2	**2788**	**15.2**	4	2770	15.3	2771	15.3	**2771**	**15.3**
465.tonto	4	991	39.7	**989**	**39.8**	979	40.2	4	964	40.8	968	40.6	**966**	**40.7**
470.lbm	4	3637	15.1	**3635**	**15.1**	3635	15.1	4	3632	15.1	**3632**	**15.1**	3630	15.1
481.wrf	4	**1404**	**31.8**	1403	31.8	1404	31.8	4	1418	31.5	**1415**	**31.6**	1410	31.7
482.sphinx3	4	2425	32.2	2482	31.4	**2460**	**31.7**	4	2537	30.7	**2546**	**30.6**	2548	30.6

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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