SPEC® CFP2006 Result

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Acer Incorporated

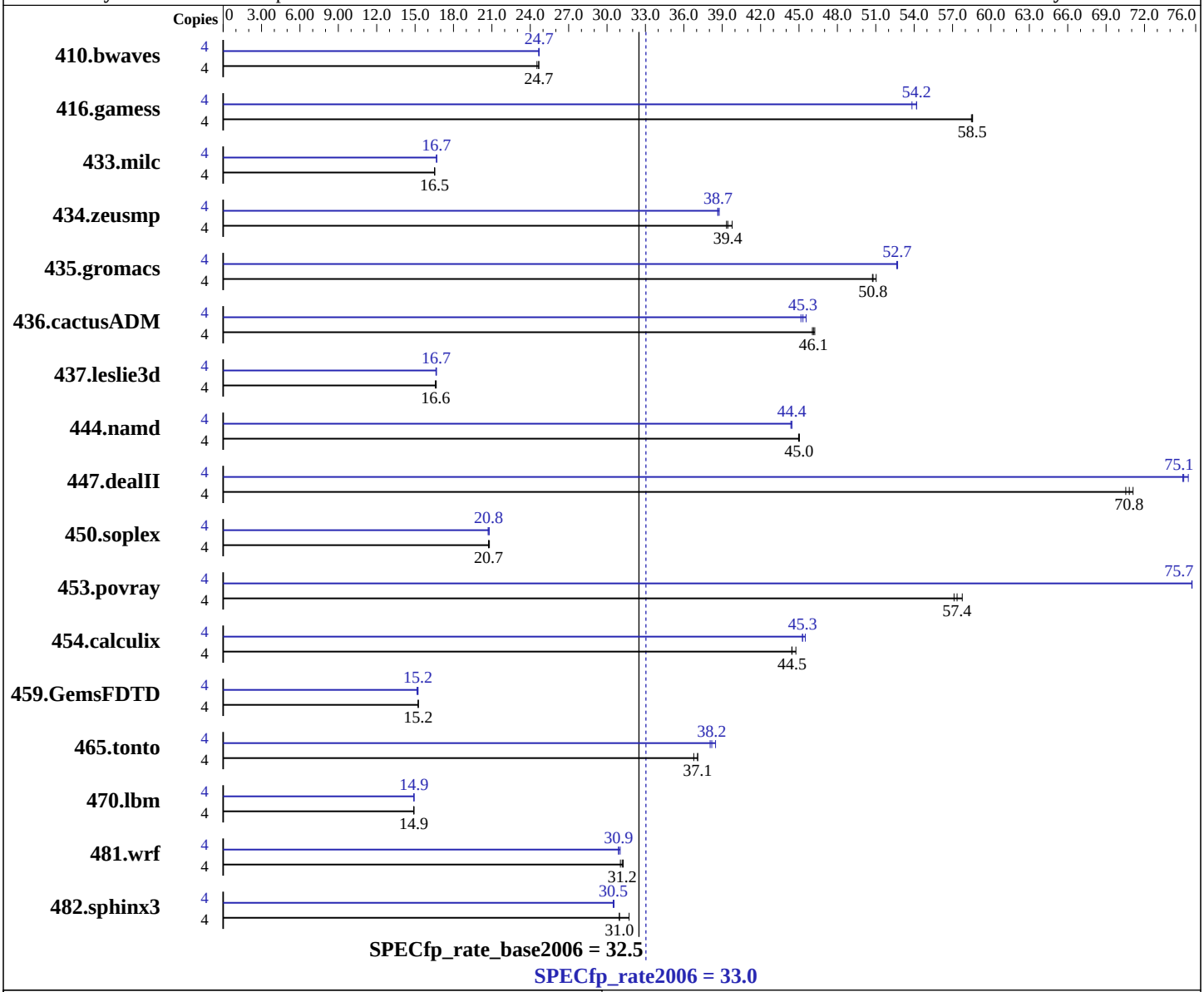
Acer Altos G330 (Intel Xeon X3210, 2.13 GHz)

SPECfp®_rate2006 = 33.0

SPECfp_rate_base2006 = 32.5

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

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



Hardware

CPU Name:	Intel Xeon X3210
CPU Characteristics:	1066MHz system bus
CPU MHz:	2133
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

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:	4 GB (4 x 1024MB ECC DDR2-667 CL5-5-5)
Disk Subsystem:	1 x 320GB 10000RPM 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	2217	24.5	2204	24.7	**2205**	**24.7**	4	2205	24.7	2201	24.7	**2202**	**24.7**
416.gamess	4	**1338**	**58.5**	1339	58.5	1337	58.6	4	1455	53.8	**1445**	**54.2**	1445	54.2
433.milc	4	2223	16.5	2221	16.5	**2222**	**16.5**	4	2202	16.7	**2201**	**16.7**	2201	16.7
434.zeusmp	4	915	39.8	**923**	**39.4**	925	39.3	4	939	38.8	942	38.6	**941**	**38.7**
435.gromacs	4	563	50.7	560	51.0	**562**	**50.8**	4	**542**	**52.7**	543	52.6	542	52.7
436.cactusADM	4	1038	46.0	1034	46.2	**1036**	**46.1**	4	**1055**	**45.3**	1059	45.2	1049	45.6
437.leslie3d	4	**2264**	**16.6**	2267	16.6	2258	16.7	4	2261	16.6	**2258**	**16.7**	2256	16.7
444.namd	4	713	45.0	712	45.0	**713**	**45.0**	4	**722**	**44.4**	723	44.4	722	44.4
447.dealII	4	**646**	**70.8**	649	70.5	644	71.1	4	607	75.4	610	75.0	**610**	**75.1**
450.soplex	4	**1608**	**20.7**	1603	20.8	1609	20.7	4	1604	20.8	**1607**	**20.8**	1611	20.7
453.povray	4	**371**	**57.4**	368	57.8	373	57.1	4	**281**	**75.7**	281	75.7	281	75.7
454.calculix	4	**742**	**44.5**	737	44.8	743	44.4	4	725	45.5	729	45.3	**729**	**45.3**
459.GemsFDTD	4	2784	15.2	2784	15.2	**2784**	**15.2**	4	2801	15.1	**2788**	**15.2**	2788	15.2
465.tonto	4	**1062**	**37.1**	1070	36.8	1061	37.1	4	1023	38.5	**1031**	**38.2**	1034	38.1
470.lbm	4	3685	14.9	3690	14.9	**3690**	**14.9**	4	3689	14.9	**3686**	**14.9**	3684	14.9
481.wrf	4	**1433**	**31.2**	1429	31.3	1439	31.0	4	**1445**	**30.9**	1446	30.9	1440	31.0
482.sphinx3	4	2457	31.7	**2518**	**31.0**	2518	31.0	4	**2556**	**30.5**	2558	30.5	2552	30.5

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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