SPEC® CFP2006 Result

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Acer Incorporated

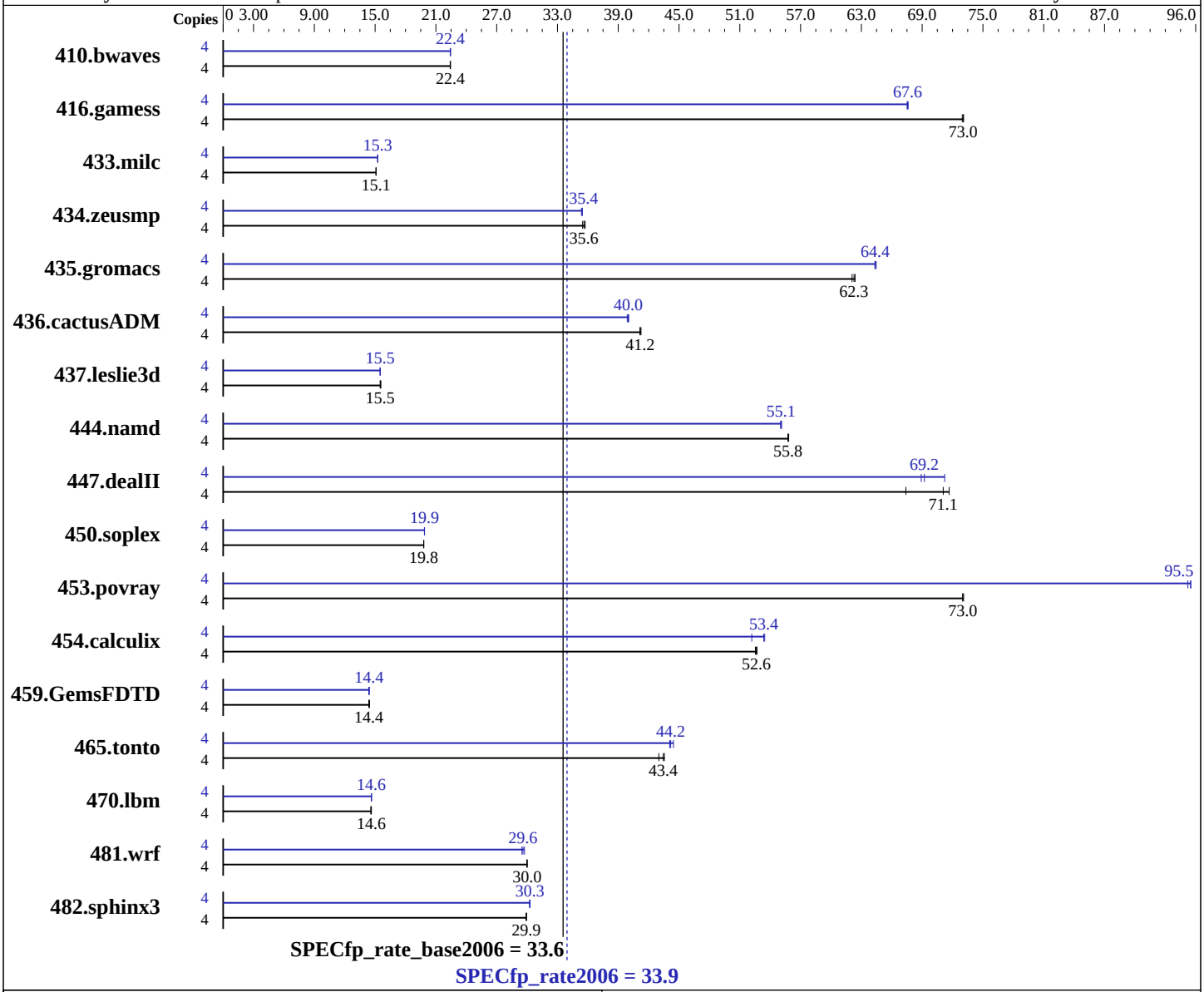
Acer Altos R520 (Intel Xeon X5355, 2.66GHz)

SPECfp®_rate2006 = 33.9

SPECfp_rate_base2006 = 33.6

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:	ext2

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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	2426	22.4	**2425**	**22.4**	2422	22.4	4	2425	22.4	2421	22.5	**2425**	**22.4**
416.gamess	4	1072	73.1	**1072**	**73.0**	1073	73.0	4	1160	67.5	**1159**	**67.6**	1158	67.6
433.milc	4	**2432**	**15.1**	2432	15.1	2434	15.1	4	2406	15.3	2407	15.3	**2406**	**15.3**
434.zeusmp	4	1019	35.7	1026	35.5	**1022**	**35.6**	4	1026	35.5	1029	35.4	**1027**	**35.4**
435.gromacs	4	458	62.4	**459**	**62.3**	460	62.1	4	**444**	**64.4**	444	64.3	443	64.5
436.cactusADM	4	1159	41.2	**1161**	**41.2**	1162	41.1	4	1198	39.9	1194	40.0	**1195**	**40.0**
437.leslie3d	4	2415	15.6	**2422**	**15.5**	2426	15.5	4	2426	15.5	2426	15.5	**2426**	**15.5**
444.namd	4	**575**	**55.8**	575	55.7	575	55.8	4	582	55.1	583	55.0	**583**	**55.1**
447.dealII	4	**644**	**71.1**	679	67.4	639	71.7	4	664	68.9	642	71.2	**661**	**69.2**
450.soplex	4	1685	19.8	**1685**	**19.8**	1685	19.8	4	**1679**	**19.9**	1679	19.9	1678	19.9
453.povray	4	291	73.1	**291**	**73.0**	292	73.0	4	223	95.5	223	95.2	**223**	**95.5**
454.calculix	4	626	52.7	628	52.5	**627**	**52.6**	4	617	53.5	**618**	**53.4**	632	52.2
459.GemsFDTD	4	2937	14.5	2951	14.4	**2950**	**14.4**	4	**2943**	**14.4**	2953	14.4	2942	14.4
465.tonto	4	**906**	**43.4**	904	43.6	915	43.0	4	893	44.1	885	44.5	**891**	**44.2**
470.lbm	4	3757	14.6	**3758**	**14.6**	3773	14.6	4	3754	14.6	3754	14.6	**3754**	**14.6**
481.wrf	4	1491	30.0	**1489**	**30.0**	1489	30.0	4	1502	29.7	1515	29.5	**1510**	**29.6**
482.sphinx3	4	2608	29.9	**2606**	**29.9**	2603	29.9	4	2573	30.3	**2575**	**30.3**	2578	30.2

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

This result was measured on the Acer Altos R520.
The Altos R720 and Altos R520 are electronically equivalent.

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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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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