



SPEC[®] CFP2006 Result

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Acer Incorporated

SPECfp[®]_rate2006 = 26.9

Acer Altos R720 (Intel Xeon E5320)

SPECfp_rate_base2006 = 26.3

CPU2006 license: 97

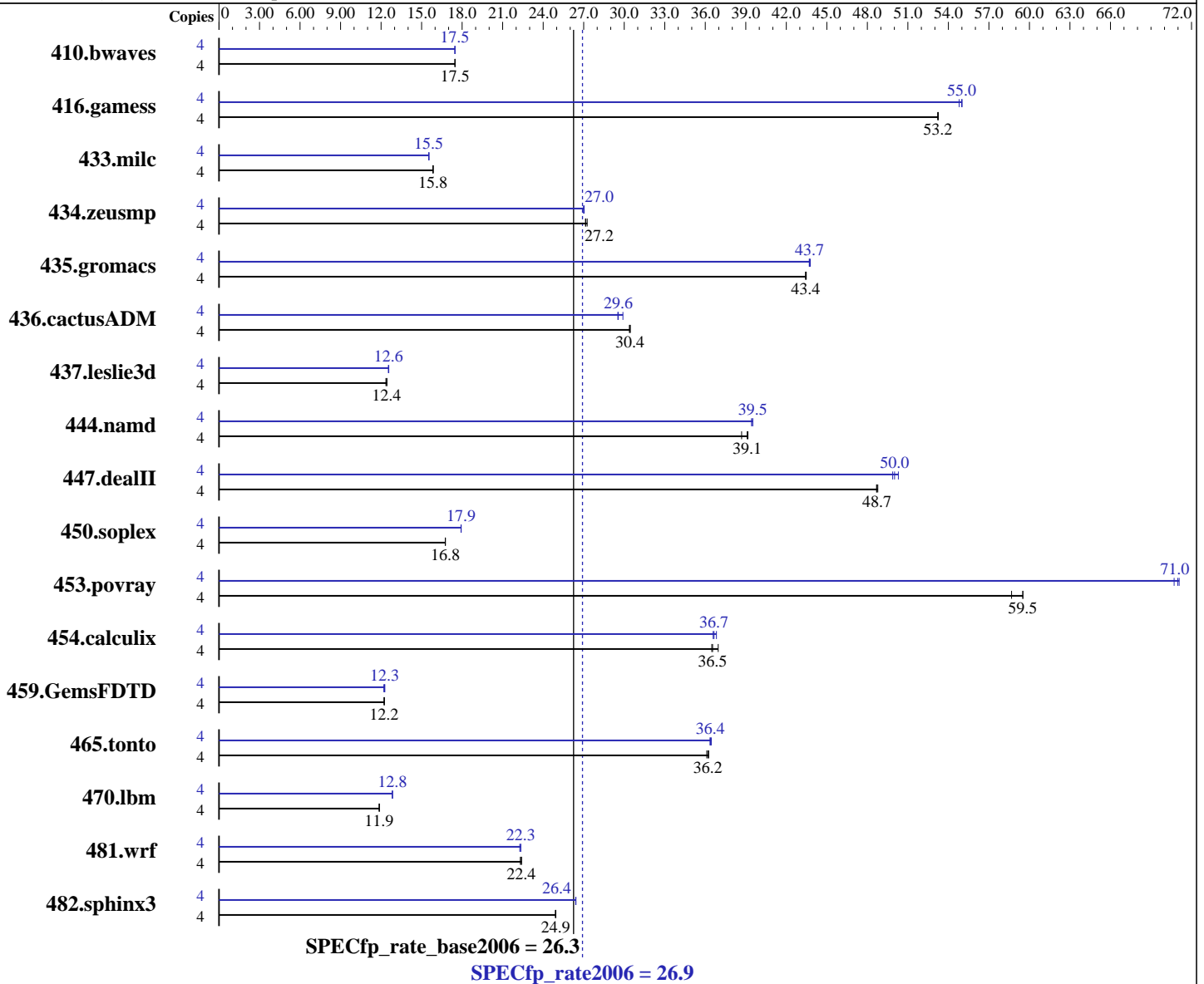
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1066MHz system bus
 CPU MHz: 1860
 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

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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 for Linux32 version 10.0 Build 20070426 Package ID: 1_cc_p_10.0.023
 Intel Fortran Compiler for Linux32 version 10.0 Build 20070426 Package ID: 1_fc_p_10.0.023
 Auto Parallel: No
 File System: ReiserFS
 System State: Default

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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

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	<u>3111</u>	<u>17.5</u>	3111	17.5	3110	17.5	4	<u>3112</u>	<u>17.5</u>	3113	17.5	3111	17.5
416.gamess	4	1472	53.2	1471	53.3	<u>1471</u>	<u>53.2</u>	4	1429	54.8	1424	55.0	<u>1424</u>	<u>55.0</u>
433.milc	4	2314	15.9	2319	15.8	<u>2318</u>	<u>15.8</u>	4	<u>2363</u>	<u>15.5</u>	2364	15.5	2362	15.5
434.zeusmp	4	1335	27.3	1342	27.1	<u>1340</u>	<u>27.2</u>	4	<u>1347</u>	<u>27.0</u>	1349	27.0	1346	27.0
435.gromacs	4	657	43.5	<u>658</u>	<u>43.4</u>	658	43.4	4	654	43.7	<u>653</u>	<u>43.7</u>	652	43.8
436.cactusADM	4	<u>1571</u>	<u>30.4</u>	1573	30.4	1570	30.4	4	1598	29.9	1619	29.5	<u>1617</u>	<u>29.6</u>
437.leslie3d	4	<u>3029</u>	<u>12.4</u>	3025	12.4	3043	12.4	4	2991	12.6	2997	12.5	<u>2995</u>	<u>12.6</u>
444.namd	4	<u>820</u>	<u>39.1</u>	829	38.7	819	39.2	4	814	39.4	812	39.5	<u>812</u>	<u>39.5</u>
447.dealII	4	<u>940</u>	<u>48.7</u>	940	48.7	938	48.8	4	<u>915</u>	<u>50.0</u>	917	49.9	910	50.3
450.soplex	4	1990	16.8	1991	16.8	<u>1991</u>	<u>16.8</u>	4	1860	17.9	1862	17.9	<u>1861</u>	<u>17.9</u>
453.povray	4	363	58.7	<u>358</u>	<u>59.5</u>	358	59.5	4	299	71.1	301	70.7	<u>300</u>	<u>71.0</u>
454.calculix	4	893	37.0	904	36.5	<u>903</u>	<u>36.5</u>	4	896	36.8	<u>900</u>	<u>36.7</u>	902	36.6
459.GemsFDTD	4	3466	12.2	3471	12.2	<u>3471</u>	<u>12.2</u>	4	<u>3462</u>	<u>12.3</u>	3478	12.2	3457	12.3
465.tonto	4	1086	36.3	<u>1087</u>	<u>36.2</u>	1090	36.1	4	1080	36.5	<u>1082</u>	<u>36.4</u>	1083	36.4
470.lbm	4	4632	11.9	4631	11.9	<u>4632</u>	<u>11.9</u>	4	4281	12.8	4281	12.8	<u>4281</u>	<u>12.8</u>
481.wrf	4	2003	22.3	1995	22.4	<u>1996</u>	<u>22.4</u>	4	<u>2000</u>	<u>22.3</u>	2006	22.3	2000	22.3
482.sphinx3	4	3126	24.9	<u>3128</u>	<u>24.9</u>	3130	24.9	4	<u>2951</u>	<u>26.4</u>	2950	26.4	2952	26.4

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

All programs compiled with the 64-bit compiler except 437.leslie3d, 450.soplex, 470.lbm and 482.sphinx3, at peak, compiled with the 32-bit compiler
This result was measured on the Acer Altos R520
The Altos R720 and Altos R520 are electronically equivalent.

taskset was used to bind processes to cores



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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
 436.cactusADM: -DSPEC_CPU_LP64
 437.lelie3d: -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
 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 -auto-ilp32

C++ benchmarks:

-fast -auto-ilp32

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

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Base Optimization Flags (Continued)

435.gromacs: -fast -auto-ilp32 -nofor_main(*)

436.cactusADM: Same as 435.gromacs

454.calculix: Same as 435.gromacs

481.wrf: -fast -auto-ilp32

(*) Indicates an optimization flag that was found in a portability variable.

Peak Compiler Invocation

C benchmarks (except as noted below):

/opt/intel/cc/10.0.023/bin/icc -L/opt/intel/cc/10.0.023/lib
-I/opt/intel/cc/10.0.023/include

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/10.0.023/bin/icpc -L/opt/intel/cc/10.0.023/lib
-I/opt/intel/cc/10.0.023/include

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: /opt/intel/fc/10.0.023/bin/ifort -L/opt/intel/fc/10.0.023/lib
-I/opt/intel/fc/10.0.023/include

Benchmarks using both Fortran and C:

icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias

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Peak Optimization Flags (Continued)

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-scalar-rep- -prefetch

482.sphinx3: -fast -unroll2

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -xT -ipo -O3
-no-prec-div

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: Same as 434.zeusmp

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -auto-ilp32
-nofor_main(*)

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-auto-ilp32 -nofor_main(*)

454.calculix: -fast -auto-ilp32 -nofor_main(*)

481.wrf: -fast -auto-ilp32

(*) Indicates an optimization flag that was found in a portability variable.



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The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.16.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.16.xml>

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For other inquiries, please contact webmaster@spec.org.

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