



SPEC® CFP2006 Result

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Acer Incorporated

SPECfp®_rate2006 = 17.6

Acer Altos G540 (Intel Xeon 5110)

SPECfp_rate_base2006 = 16.4

CPU2006 license: 97

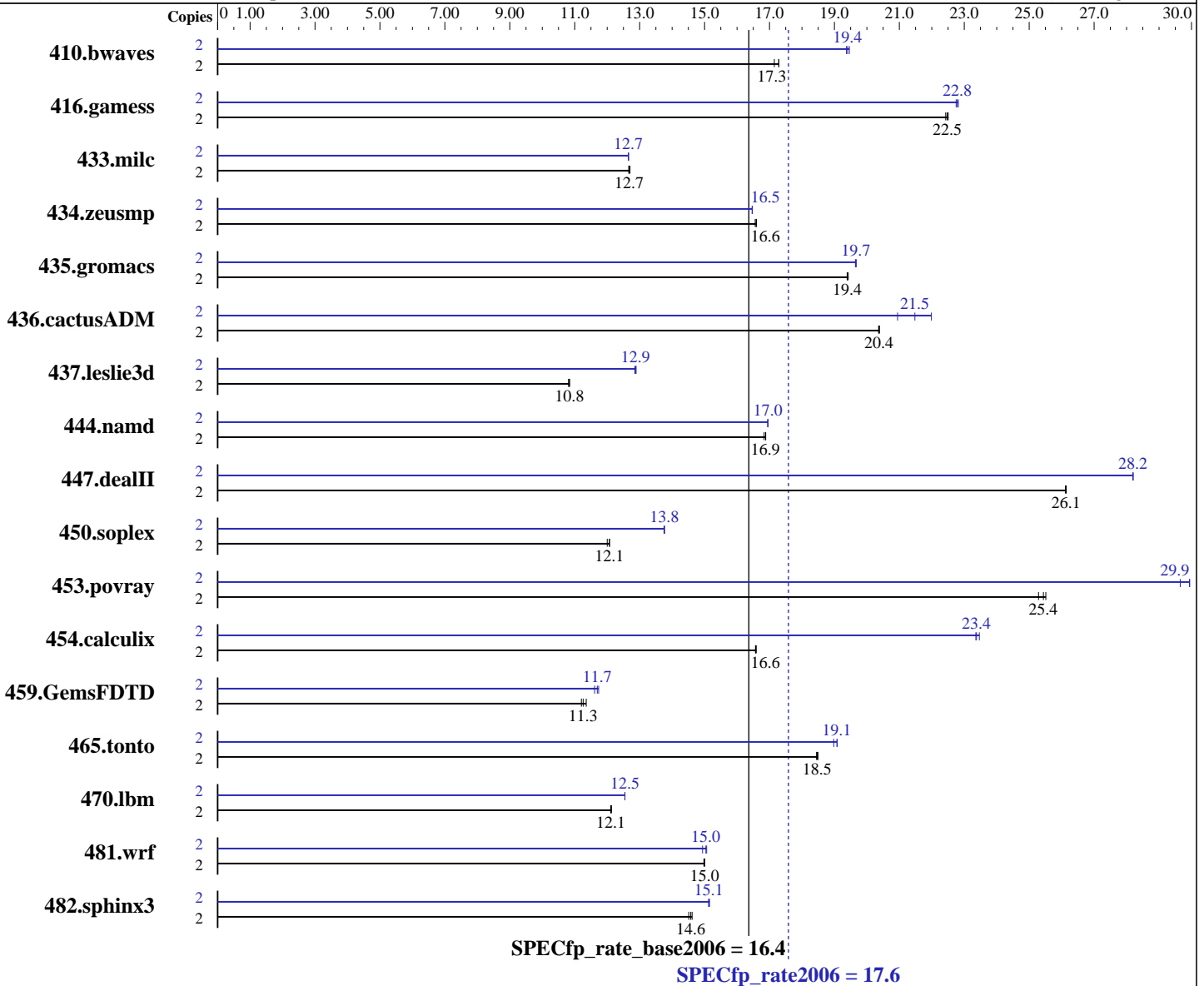
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Sep-2007

Hardware Availability: Nov-2006

Software Availability: Aug-2007



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1066MHz system bus
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1, 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip

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Software

Operating System: SUSE Linux Enterprise Server 10 EM64T (kernel 2.6.16.21-0.8-smp)
 Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070725
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user, run level 3
 Base Pointers: 64-bit

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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 73 GB 10000RPM SAS HDD
Other Hardware: None

Peak Pointers: 32/64-bit
Other Software: MicroQuill SmartHeap Library 8.1

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1572	17.3	1585	17.1	<u>1572</u>	<u>17.3</u>	2	1397	19.5	1403	19.4	<u>1401</u>	<u>19.4</u>
416.gamess	2	1740	22.5	<u>1743</u>	<u>22.5</u>	1746	22.4	2	1721	22.7	1716	22.8	<u>1719</u>	<u>22.8</u>
433.milc	2	<u>1448</u>	<u>12.7</u>	1445	12.7	1450	12.7	2	1451	12.7	1450	12.7	<u>1451</u>	<u>12.7</u>
434.zeusmp	2	<u>1097</u>	<u>16.6</u>	1096	16.6	1099	16.6	2	<u>1105</u>	<u>16.5</u>	1105	16.5	1105	16.5
435.gromacs	2	735	19.4	<u>736</u>	<u>19.4</u>	736	19.4	2	726	19.7	<u>726</u>	<u>19.7</u>	727	19.6
436.cactusADM	2	<u>1173</u>	<u>20.4</u>	1174	20.4	1172	20.4	2	<u>1113</u>	<u>21.5</u>	1087	22.0	1141	20.9
437.leslie3d	2	<u>1735</u>	<u>10.8</u>	1734	10.8	1740	10.8	2	1458	12.9	<u>1460</u>	<u>12.9</u>	1463	12.9
444.namd	2	<u>950</u>	<u>16.9</u>	950	16.9	953	16.8	2	947	16.9	<u>946</u>	<u>17.0</u>	946	17.0
447.dealII	2	<u>876</u>	<u>26.1</u>	876	26.1	875	26.1	2	<u>812</u>	<u>28.2</u>	811	28.2	812	28.2
450.soplex	2	<u>1382</u>	<u>12.1</u>	1390	12.0	1382	12.1	2	<u>1212</u>	<u>13.8</u>	1212	13.8	1213	13.8
453.povray	2	417	25.5	<u>418</u>	<u>25.4</u>	421	25.3	2	<u>355</u>	<u>29.9</u>	355	29.9	359	29.7
454.calculix	2	<u>995</u>	<u>16.6</u>	994	16.6	996	16.6	2	<u>706</u>	<u>23.4</u>	706	23.4	703	23.5
459.GemsFDTD	2	<u>1885</u>	<u>11.3</u>	1869	11.4	1894	11.2	2	<u>1814</u>	<u>11.7</u>	1827	11.6	1808	11.7
465.tonto	2	1064	18.5	<u>1066</u>	<u>18.5</u>	1067	18.4	2	<u>1032</u>	<u>19.1</u>	1031	19.1	1037	19.0
470.lbm	2	2265	12.1	<u>2268</u>	<u>12.1</u>	2269	12.1	2	2190	12.5	2190	12.5	<u>2190</u>	<u>12.5</u>
481.wrf	2	<u>1489</u>	<u>15.0</u>	1491	15.0	1489	15.0	2	1483	15.1	<u>1485</u>	<u>15.0</u>	1496	14.9
482.sphinx3	2	2686	14.5	2667	14.6	<u>2674</u>	<u>14.6</u>	2	2573	15.2	2577	15.1	<u>2576</u>	<u>15.1</u>

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

General Notes

All results used taskset to bind processes to cores

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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Base Compiler Invocation (Continued)

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 (except as noted below):

/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icc
 -L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib

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Peak Compiler Invocation (Continued)

C benchmarks (except as noted below) (continued):

-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icpc

-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib

-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/ifort

-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib

-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

Benchmarks using both Fortran and C:

icc ifort

Peak 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

444.namd: -DSPEC_CPU_LP64

447.dealII: -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

481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

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

-auto-ilp32

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Peak Optimization Flags (Continued)

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-scalar-rep- -prefetch -opt-malloc-options=3

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) -fast
-opt-malloc-options=3

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

Fortran benchmarks:

410.bwaves: -fast -prefetch

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: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

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

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

Benchmarks using both Fortran and C:

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

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

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32



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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-ic10.1-FP-intel64-linux-flags.20090714.17.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.17.xml>

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