



SPEC® CFP2006 Result

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Acer Incorporated

SPECfp®_rate2006 = 28.4

Acer Altos G540 (Intel Xeon E5310)

SPECfp_rate_base2006 = 26.5

CPU2006 license: 97

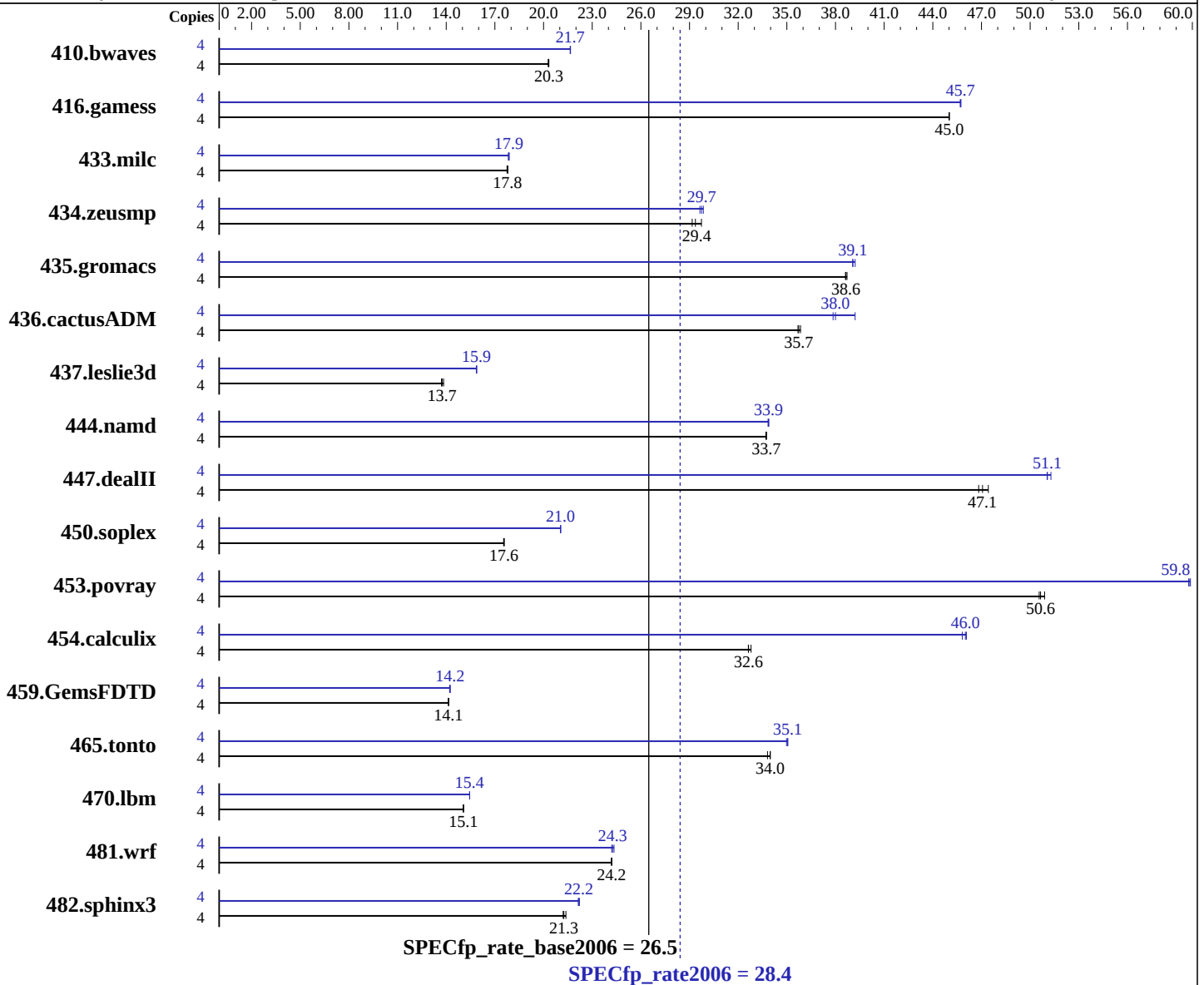
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5310
CPU Characteristics: 1066MHz system bus
CPU MHz: 1600
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++ 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	4	<u>2675</u>	<u>20.3</u>	2675	20.3	2680	20.3	4	2511	21.6	<u>2511</u>	<u>21.7</u>	2509	21.7
416.gamess	4	1740	45.0	<u>1740</u>	<u>45.0</u>	1740	45.0	4	1714	45.7	<u>1714</u>	<u>45.7</u>	1712	45.7
433.milc	4	<u>2064</u>	<u>17.8</u>	2063	17.8	2069	17.7	4	2053	17.9	<u>2056</u>	<u>17.9</u>	2060	17.8
434.zeusmp	4	1224	29.7	1248	29.2	<u>1240</u>	<u>29.4</u>	4	1219	29.9	<u>1224</u>	<u>29.7</u>	1228	29.6
435.gromacs	4	740	38.6	738	38.7	<u>739</u>	<u>38.6</u>	4	<u>731</u>	<u>39.1</u>	728	39.2	731	39.1
436.cactusADM	4	1334	35.8	1340	35.7	<u>1338</u>	<u>35.7</u>	4	<u>1258</u>	<u>38.0</u>	1263	37.9	1219	39.2
437.leslie3d	4	<u>2735</u>	<u>13.7</u>	2717	13.8	2743	13.7	4	2368	15.9	<u>2369</u>	<u>15.9</u>	2371	15.9
444.namd	4	<u>951</u>	<u>33.7</u>	951	33.7	952	33.7	4	948	33.8	947	33.9	<u>947</u>	<u>33.9</u>
447.dealII	4	<u>972</u>	<u>47.1</u>	965	47.4	977	46.8	4	892	51.3	<u>896</u>	<u>51.1</u>	896	51.0
450.soplex	4	1902	17.5	1898	17.6	<u>1899</u>	<u>17.6</u>	4	<u>1586</u>	<u>21.0</u>	1584	21.1	1586	21.0
453.povray	4	<u>420</u>	<u>50.6</u>	418	50.9	421	50.6	4	<u>356</u>	<u>59.8</u>	355	59.9	356	59.8
454.calculix	4	1006	32.8	<u>1011</u>	<u>32.6</u>	1011	32.6	4	716	46.1	720	45.8	<u>717</u>	<u>46.0</u>
459.GemsFDTD	4	3002	14.1	<u>3002</u>	<u>14.1</u>	2998	14.2	4	<u>2980</u>	<u>14.2</u>	2987	14.2	2980	14.2
465.tonto	4	1158	34.0	<u>1159</u>	<u>34.0</u>	1164	33.8	4	1123	35.1	1125	35.0	<u>1123</u>	<u>35.1</u>
470.lbm	4	3650	15.1	<u>3649</u>	<u>15.1</u>	3648	15.1	4	3559	15.4	3559	15.4	<u>3559</u>	<u>15.4</u>
481.wrf	4	1848	24.2	1845	24.2	<u>1846</u>	<u>24.2</u>	4	1835	24.3	<u>1842</u>	<u>24.3</u>	1846	24.2
482.sphinx3	4	3676	21.2	3646	21.4	<u>3668</u>	<u>21.3</u>	4	3521	22.1	<u>3515</u>	<u>22.2</u>	3510	22.2

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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