



SPEC[®] CFP2006 Result

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Acer Incorporated

SPECfp[®]_rate2006 = 31.1

Acer Altos R720 (Intel Xeon E5335)

SPECfp_rate_base2006 = 30.4

CPU2006 license: 97

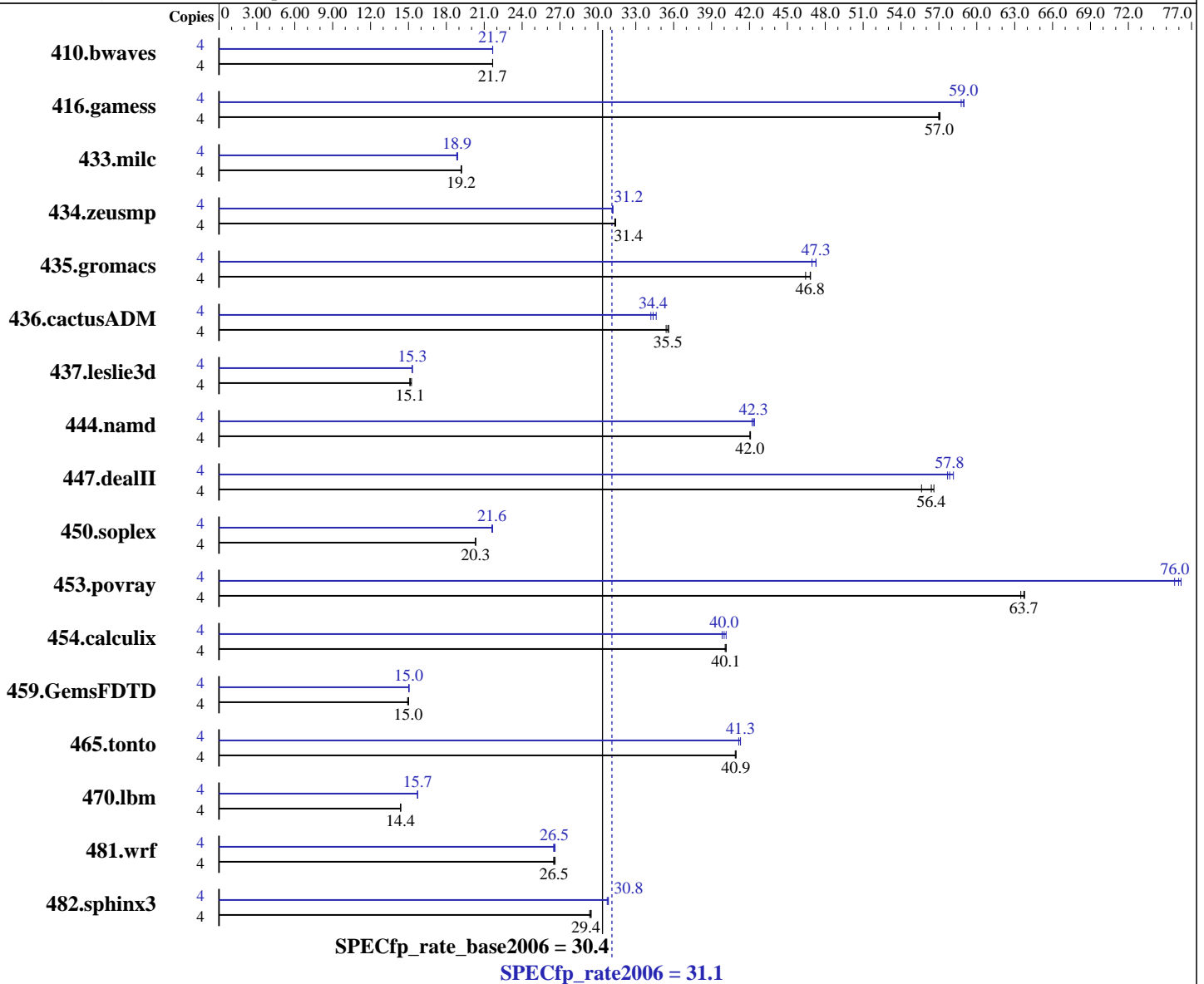
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon E5335
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 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: l_cc_p_10.0.023
 Intel Fortran Compiler for Linux32 version 10.0 Build 20070426 Package ID: l_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>2509</u>	<u>21.7</u>	2508	21.7	2509	21.7	4	<u>2508</u>	<u>21.7</u>	2508	21.7	2509	21.7
416.gamess	4	1375	57.0	1372	57.1	<u>1373</u>	<u>57.0</u>	4	1333	58.8	1328	59.0	<u>1329</u>	<u>59.0</u>
433.milc	4	1911	19.2	1916	19.2	<u>1916</u>	<u>19.2</u>	4	1950	18.8	<u>1948</u>	<u>18.9</u>	1943	18.9
434.zeusmp	4	1159	31.4	<u>1161</u>	<u>31.4</u>	1162	31.3	4	<u>1168</u>	<u>31.2</u>	1167	31.2	1169	31.1
435.gromacs	4	610	46.8	<u>610</u>	<u>46.8</u>	615	46.4	4	<u>604</u>	<u>47.3</u>	608	46.9	604	47.3
436.cactusADM	4	1342	35.6	1350	35.4	<u>1345</u>	<u>35.5</u>	4	1398	34.2	1381	34.6	<u>1391</u>	<u>34.4</u>
437.leslie3d	4	<u>2483</u>	<u>15.1</u>	2490	15.1	2467	15.2	4	2455	15.3	2459	15.3	<u>2457</u>	<u>15.3</u>
444.namd	4	763	42.0	762	42.1	<u>763</u>	<u>42.0</u>	4	757	42.4	760	42.2	<u>758</u>	<u>42.3</u>
447.dealII	4	808	56.6	823	55.6	<u>811</u>	<u>56.4</u>	4	787	58.2	793	57.7	<u>791</u>	<u>57.8</u>
450.soplex	4	1642	20.3	1642	20.3	<u>1642</u>	<u>20.3</u>	4	<u>1543</u>	<u>21.6</u>	1540	21.7	1543	21.6
453.povray	4	335	63.5	334	63.8	<u>334</u>	<u>63.7</u>	4	<u>280</u>	<u>76.0</u>	281	75.7	279	76.2
454.calculix	4	822	40.2	823	40.1	<u>822</u>	<u>40.1</u>	4	822	40.2	828	39.8	<u>825</u>	<u>40.0</u>
459.GemsFDTD	4	2826	15.0	<u>2832</u>	<u>15.0</u>	2842	14.9	4	2824	15.0	2820	15.0	<u>2823</u>	<u>15.0</u>
465.tonto	4	962	40.9	963	40.9	<u>962</u>	<u>40.9</u>	4	956	41.2	953	41.3	<u>953</u>	<u>41.3</u>
470.lbm	4	3823	14.4	<u>3822</u>	<u>14.4</u>	3821	14.4	4	<u>3495</u>	<u>15.7</u>	3495	15.7	3496	15.7
481.wrf	4	1686	26.5	1679	26.6	<u>1684</u>	<u>26.5</u>	4	1679	26.6	<u>1684</u>	<u>26.5</u>	1686	26.5
482.sphinx3	4	<u>2649</u>	<u>29.4</u>	2645	29.5	2656	29.3	4	<u>2531</u>	<u>30.8</u>	2528	30.8	2536	30.7

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 copies to cores

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

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.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
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:
435.gromacs: -fast -auto-ilp32 -nofor_main(*)
436.cactusADM: Same as 435.gromacs

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Base Optimization Flags (Continued)

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

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

482.sphinx3: -fast -unroll2

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Peak Optimization Flags (Continued)

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.

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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