



SPEC[®] CFP2006 Result

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Acer Incorporated

SPECfp[®]_rate2006 = 60.5

Acer Altos G540 (Intel Xeon X5355)

SPECfp_rate_base2006 = 58.9

CPU2006 license: 97

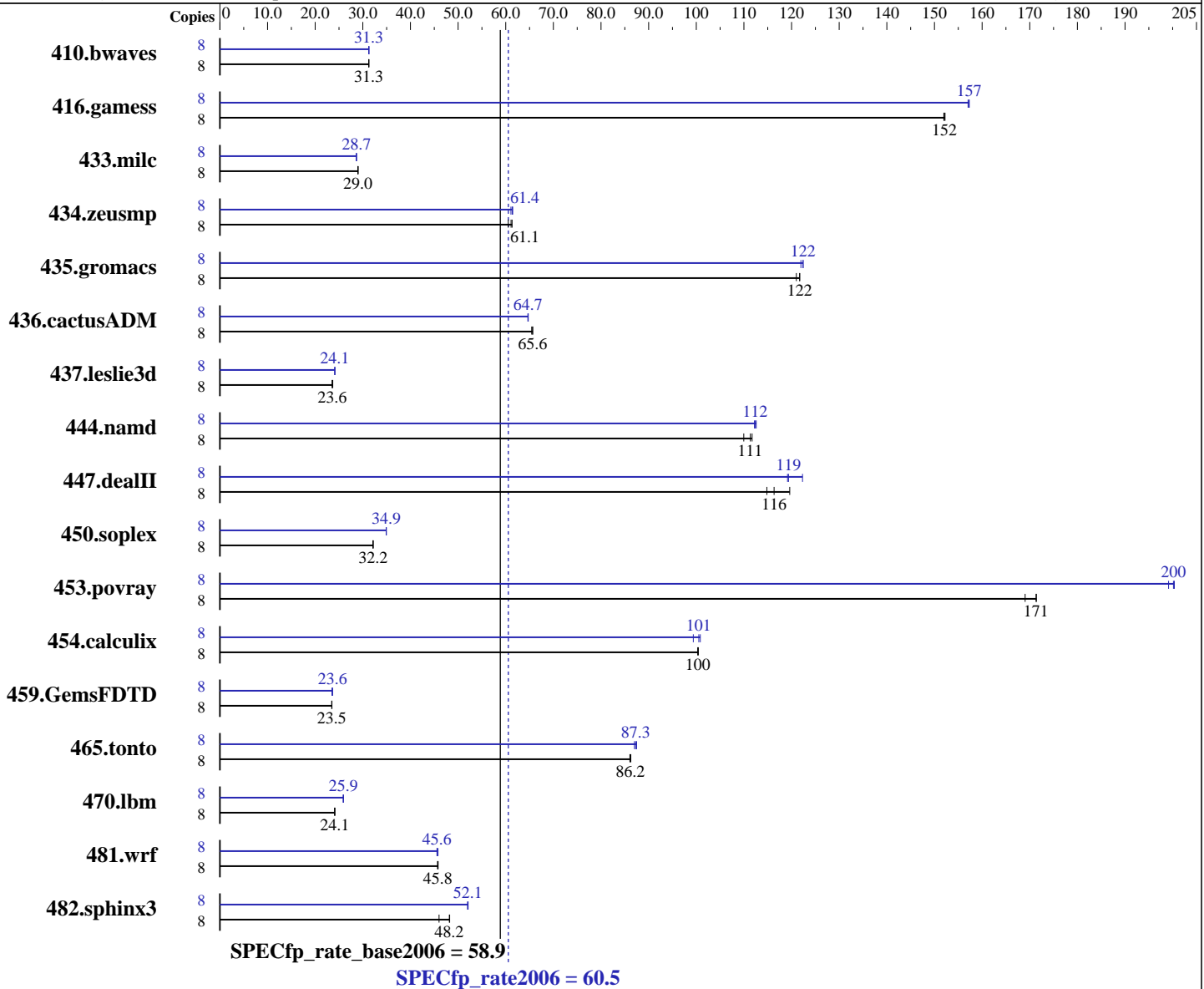
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2666
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 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 73 GB 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	8	3481	31.2	3477	31.3	3477	31.3	8	3477	31.3	3477	31.3	3477	31.3		
416.gamess	8	1029	152	1030	152	1031	152	8	996	157	996	157	997	157		
433.milc	8	2536	29.0	2531	29.0	2536	29.0	8	2563	28.7	2560	28.7	2565	28.6		
434.zeusmp	8	1191	61.1	1203	60.5	1187	61.3	8	1192	61.1	1184	61.5	1186	61.4		
435.gromacs	8	472	121	469	122	469	122	8	468	122	467	122	467	122		
436.cactusADM	8	1456	65.6	1461	65.4	1456	65.7	8	1477	64.7	1479	64.7	1478	64.7		
437.leslie3d	8	3192	23.6	3187	23.6	3174	23.7	8	3117	24.1	3118	24.1	3117	24.1		
444.namd	8	576	111	574	112	583	110	8	572	112	570	113	571	112		
447.dealII	8	765	120	787	116	797	115	8	768	119	767	119	748	122		
450.soplex	8	2075	32.2	2074	32.2	2078	32.1	8	1912	34.9	1911	34.9	1910	34.9		
453.povray	8	252	169	248	171	248	171	8	212	200	214	199	213	200		
454.calculix	8	657	100	658	100	658	100	8	654	101	657	101	664	99.4		
459.GemsFDTD	8	3609	23.5	3616	23.5	3612	23.5	8	3608	23.5	3589	23.6	3593	23.6		
465.tonto	8	914	86.2	913	86.3	915	86.1	8	905	87.0	902	87.3	900	87.5		
470.lbm	8	4560	24.1	4560	24.1	4560	24.1	8	4241	25.9	4241	25.9	4244	25.9		
481.wrf	8	1956	45.7	1951	45.8	1953	45.8	8	1961	45.6	1961	45.6	1952	45.8		
482.sphinx3	8	3389	46.0	3233	48.2	3238	48.2	8	3000	52.0	2993	52.1	2995	52.1		

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

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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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:48:15 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 8 August 2007.