



# SPEC® CFP2006 Result

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## Acer Incorporated

SPECfp®\_rate2006 = 54.2

## Acer Altos G540 (Intel Xeon E5335)

SPECfp\_rate\_base2006 = 52.8

CPU2006 license: 97

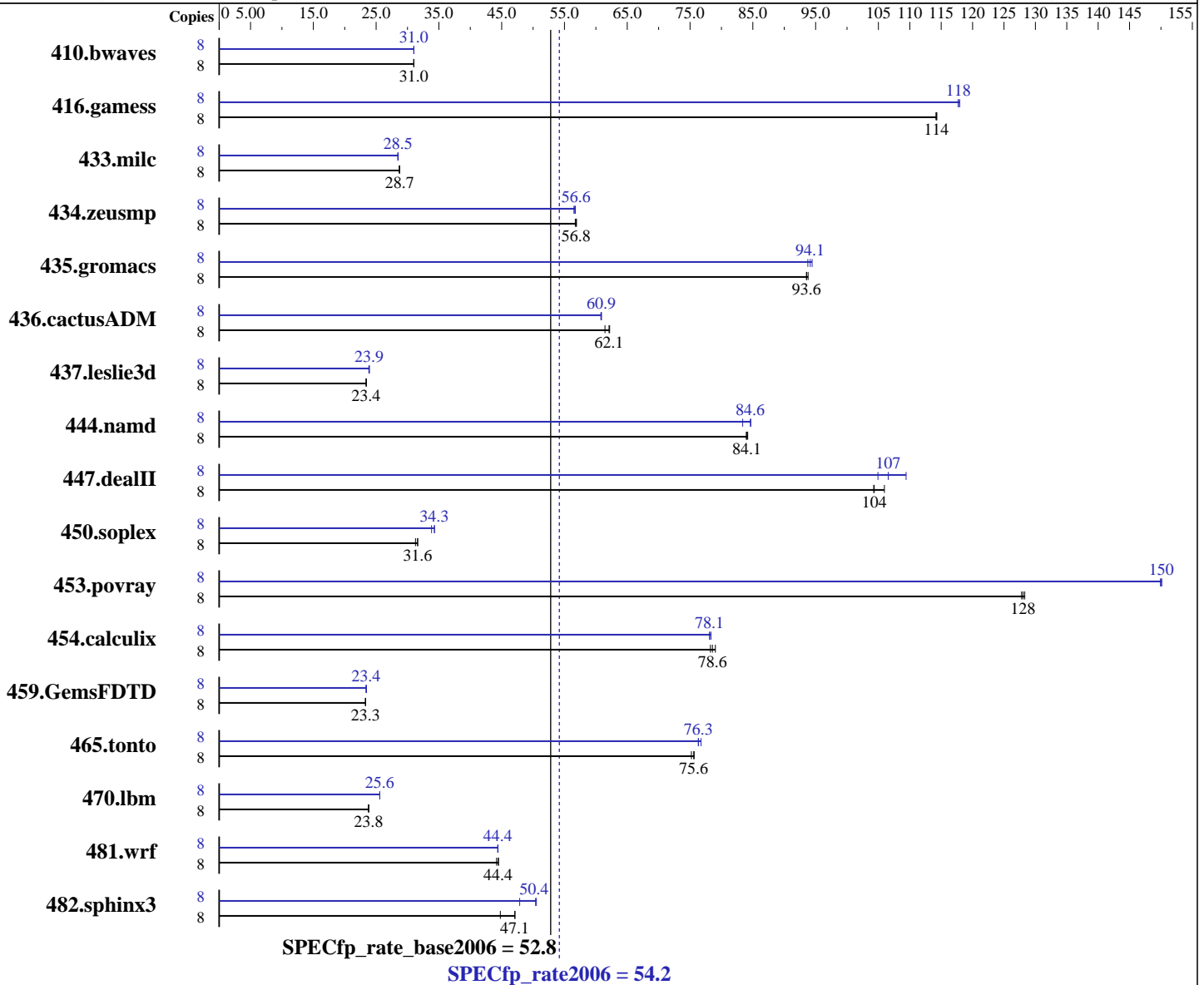
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon E5335  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2000  
 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	3507	31.0	<b>3506</b>	<b>31.0</b>	3505	31.0	8	3506	31.0	3505	31.0	<b>3506</b>	<b>31.0</b>
416.gamess	8	1372	114	<b>1371</b>	<b>114</b>	1370	114	8	1331	118	1328	118	<b>1330</b>	<b>118</b>
433.milc	8	2561	28.7	2554	28.8	<b>2556</b>	<b>28.7</b>	8	2575	28.5	<b>2579</b>	<b>28.5</b>	2581	28.5
434.zeusmp	8	1279	56.9	1284	56.7	<b>1281</b>	<b>56.8</b>	8	<b>1285</b>	<b>56.6</b>	1288	56.5	1283	56.7
435.gromacs	8	611	93.5	609	93.8	<b>610</b>	<b>93.6</b>	8	605	94.4	<b>607</b>	<b>94.1</b>	609	93.8
436.cactusADM	8	1556	61.5	1537	62.2	<b>1540</b>	<b>62.1</b>	8	<b>1570</b>	<b>60.9</b>	1572	60.8	1570	60.9
437.leslie3d	8	3213	23.4	<b>3211</b>	<b>23.4</b>	3209	23.4	8	3143	23.9	3154	23.8	<b>3147</b>	<b>23.9</b>
444.namd	8	<b>763</b>	<b>84.1</b>	762	84.2	764	83.9	8	769	83.4	758	84.7	<b>758</b>	<b>84.6</b>
447.dealII	8	878	104	<b>877</b>	<b>104</b>	864	106	8	836	109	<b>859</b>	<b>107</b>	872	105
450.soplex	8	2134	31.3	2110	31.6	<b>2111</b>	<b>31.6</b>	8	1972	33.8	<b>1946</b>	<b>34.3</b>	1946	34.3
453.povray	8	<b>332</b>	<b>128</b>	333	128	332	128	8	<b>284</b>	<b>150</b>	284	150	284	150
454.calculix	8	835	79.0	<b>840</b>	<b>78.6</b>	844	78.2	8	843	78.3	<b>845</b>	<b>78.1</b>	845	78.1
459.GemsFDTD	8	<b>3639</b>	<b>23.3</b>	3645	23.3	3638	23.3	8	<b>3625</b>	<b>23.4</b>	3628	23.4	3617	23.5
465.tonto	8	1041	75.7	1047	75.2	<b>1041</b>	<b>75.6</b>	8	1031	76.3	<b>1031</b>	<b>76.3</b>	1026	76.7
470.lbm	8	4618	23.8	4617	23.8	<b>4618</b>	<b>23.8</b>	8	4296	25.6	<b>4296</b>	<b>25.6</b>	4295	25.6
481.wrf	8	2008	44.5	<b>2011</b>	<b>44.4</b>	2023	44.2	8	2014	44.4	2012	44.4	<b>2012</b>	<b>44.4</b>
482.sphinx3	8	3481	44.8	<b>3311</b>	<b>47.1</b>	3309	47.1	8	3257	47.9	3086	50.5	<b>3094</b>	<b>50.4</b>

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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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 12:56:31 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 8 August 2007.