



# SPEC<sup>®</sup> CFP2006 Result

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## Acer Incorporated

SPECfp<sup>®</sup>\_rate2006 = 54.2

## Acer Altos R520 (Intel Xeon E5335)

SPECfp\_rate\_base2006 = 52.7

CPU2006 license: 97

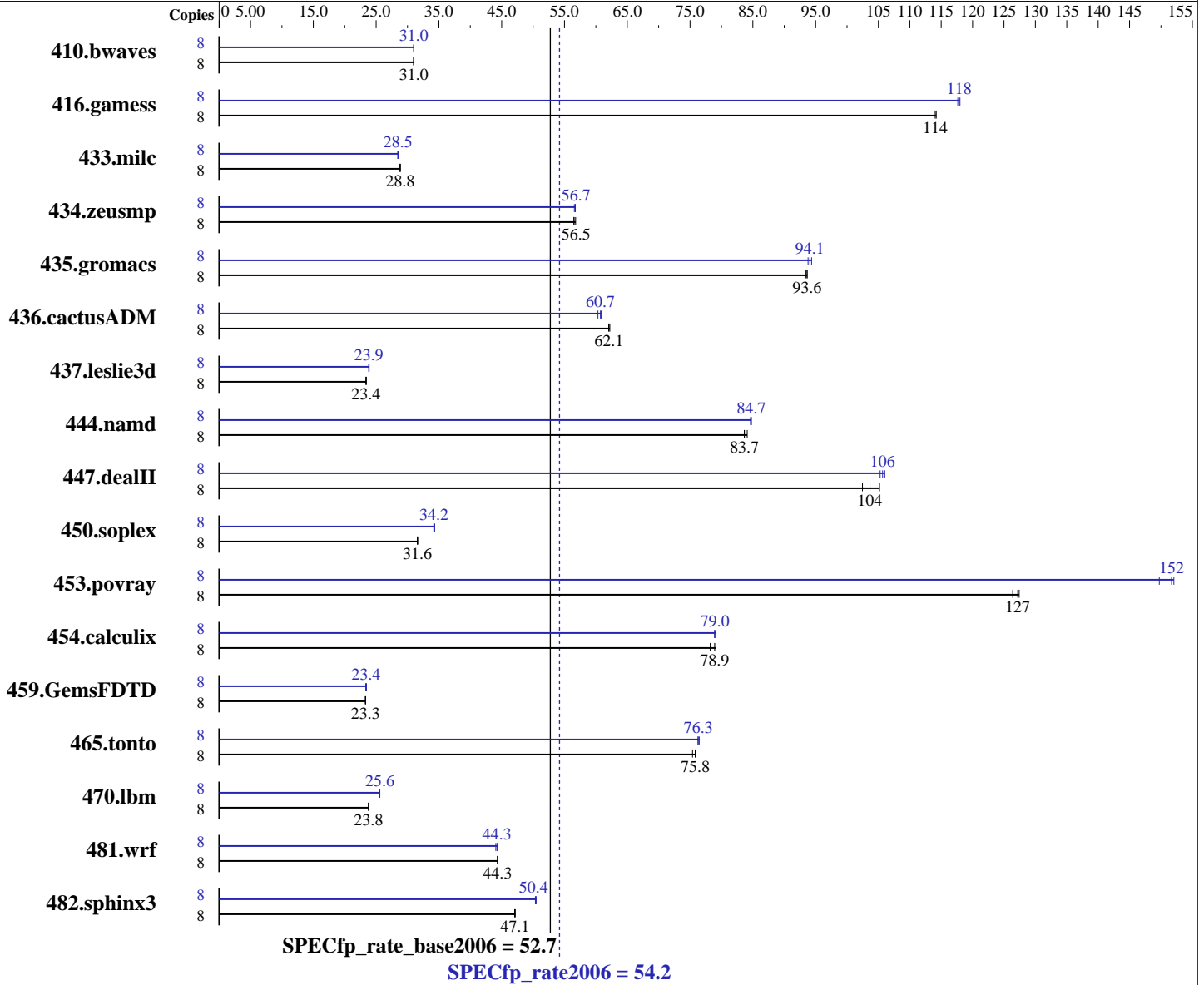
Test sponsor: Acer Incorporated

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 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	8	3509	31.0	3507	31.0	<b>3508</b>	<b>31.0</b>	8	<b>3507</b>	<b>31.0</b>	3507	31.0	3507	31.0
416.gamess	8	1371	114	1376	114	<b>1373</b>	<b>114</b>	8	<b>1329</b>	<b>118</b>	1328	118	1331	118
433.milc	8	<b>2548</b>	<b>28.8</b>	2545	28.9	2550	28.8	8	2581	28.4	2574	28.5	<b>2578</b>	<b>28.5</b>
434.zeusmp	8	1282	56.8	1289	56.5	<b>1288</b>	<b>56.5</b>	8	<b>1284</b>	<b>56.7</b>	1287	56.6	1283	56.7
435.gromacs	8	611	93.4	610	93.7	<b>610</b>	<b>93.6</b>	8	<b>607</b>	<b>94.1</b>	609	93.8	605	94.4
436.cactusADM	8	1541	62.0	<b>1540</b>	<b>62.1</b>	1536	62.2	8	<b>1574</b>	<b>60.7</b>	1571	60.8	1585	60.3
437.leslie3d	8	<b>3211</b>	<b>23.4</b>	3217	23.4	3209	23.4	8	3148	23.9	<b>3152</b>	<b>23.9</b>	3156	23.8
444.namd	8	763	84.1	<b>767</b>	<b>83.7</b>	767	83.6	8	758	84.6	757	84.8	<b>757</b>	<b>84.7</b>
447.dealII	8	893	102	<b>883</b>	<b>104</b>	870	105	8	863	106	<b>866</b>	<b>106</b>	869	105
450.soplex	8	<b>2112</b>	<b>31.6</b>	2110	31.6	2113	31.6	8	1952	34.2	<b>1949</b>	<b>34.2</b>	1943	34.3
453.povray	8	334	127	337	126	<b>335</b>	<b>127</b>	8	<b>281</b>	<b>152</b>	280	152	284	150
454.calculix	8	<b>836</b>	<b>78.9</b>	844	78.2	834	79.1	8	835	79.1	837	78.9	<b>836</b>	<b>79.0</b>
459.GemsFDTD	8	3644	23.3	3637	23.3	<b>3643</b>	<b>23.3</b>	8	<b>3627</b>	<b>23.4</b>	3618	23.5	3635	23.3
465.tonto	8	<b>1038</b>	<b>75.8</b>	1044	75.4	1037	75.9	8	1029	76.5	<b>1032</b>	<b>76.3</b>	1032	76.3
470.lbm	8	4619	23.8	<b>4619</b>	<b>23.8</b>	4619	23.8	8	4294	25.6	<b>4294</b>	<b>25.6</b>	4296	25.6
481.wrf	8	<b>2015</b>	<b>44.3</b>	2016	44.3	2014	44.4	8	<b>2019</b>	<b>44.3</b>	2028	44.1	2016	44.3
482.sphinx3	8	3313	47.1	<b>3310</b>	<b>47.1</b>	3306	47.2	8	3096	50.4	3088	50.5	<b>3092</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  
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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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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