



# SPEC<sup>®</sup> CFP2006 Result

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## Acer Incorporated

### SPECfp<sup>®</sup>\_rate2006 = 60.5

## Acer Altos R520 (Intel Xeon X5355)

### SPECfp\_rate\_base2006 = 58.8

CPU2006 license: 97

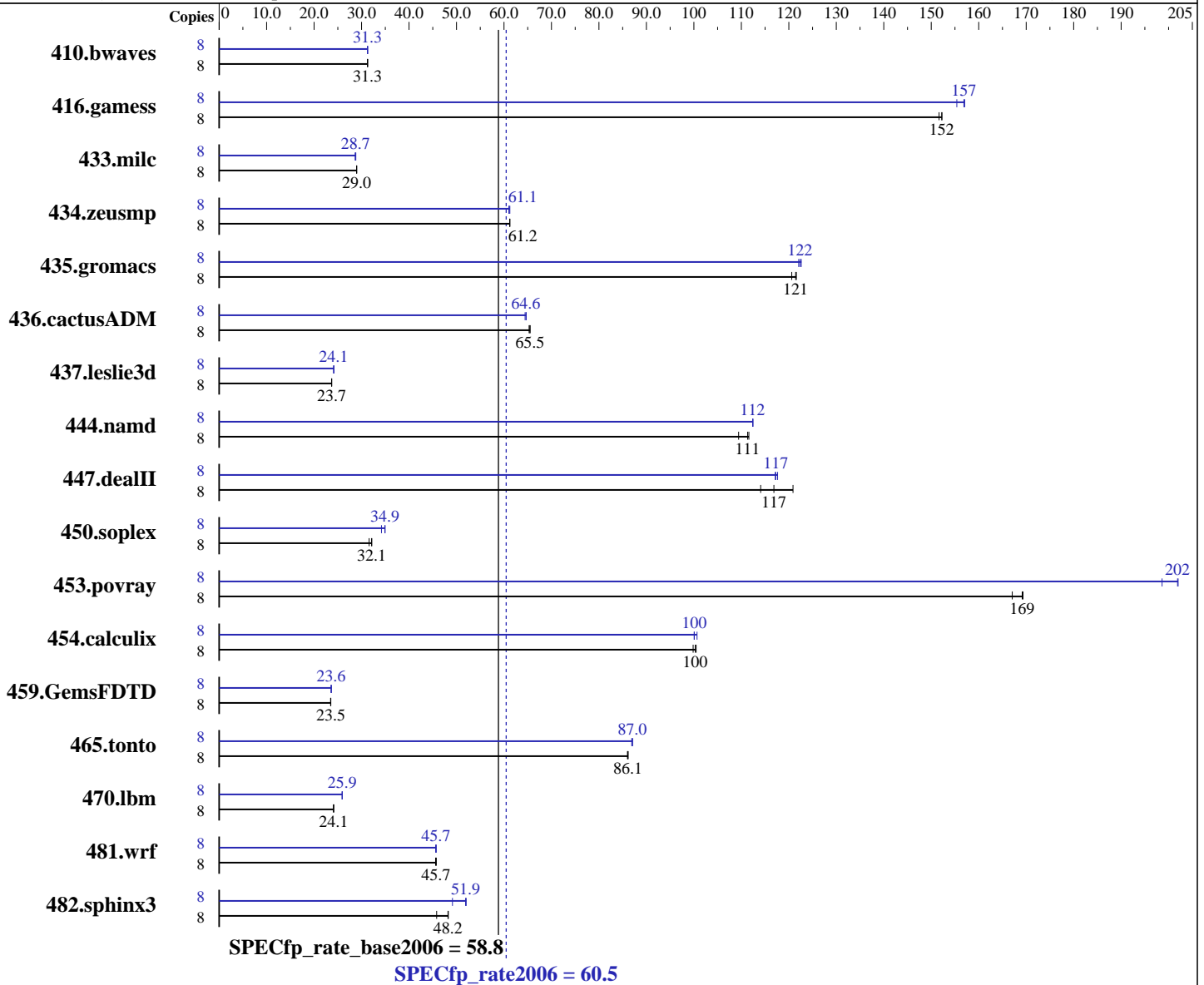
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon X5355  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2660  
 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: 1\_cc\_p\_10.0.023 Intel Fortran Compiler for Linux32 version 10.0 Build 20070426 Package ID: 1\_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	<b>3478</b>	<b>31.3</b>	3478	31.3	3477	31.3	8	3477	31.3	<b>3477</b>	<b>31.3</b>	3478	31.3
416.gamess	8	<b>1029</b>	<b>152</b>	1029	152	1033	152	8	<b>998</b>	<b>157</b>	1008	155	997	157
433.milc	8	2537	28.9	<b>2535</b>	<b>29.0</b>	2535	29.0	8	2551	28.8	2563	28.7	<b>2557</b>	<b>28.7</b>
434.zeusmp	8	1189	61.2	<b>1189</b>	<b>61.2</b>	1190	61.2	8	1193	61.0	1189	61.2	<b>1192</b>	<b>61.1</b>
435.gromacs	8	474	121	<b>470</b>	<b>121</b>	470	122	8	466	123	<b>467</b>	<b>122</b>	468	122
436.cactusADM	8	1464	65.3	1460	65.5	<b>1460</b>	<b>65.5</b>	8	<b>1479</b>	<b>64.6</b>	1483	64.4	1478	64.7
437.leslie3d	8	3176	23.7	3172	23.7	<b>3172</b>	<b>23.7</b>	8	<b>3115</b>	<b>24.1</b>	3111	24.2	3118	24.1
444.namd	8	<b>576</b>	<b>111</b>	586	109	575	112	8	<b>571</b>	<b>112</b>	571	112	571	112
447.dealII	8	802	114	<b>783</b>	<b>117</b>	757	121	8	<b>780</b>	<b>117</b>	781	117	778	118
450.soplex	8	2112	31.6	2075	32.1	<b>2077</b>	<b>32.1</b>	8	1951	34.2	1909	35.0	<b>1911</b>	<b>34.9</b>
453.povray	8	<b>252</b>	<b>169</b>	251	169	255	167	8	214	199	211	202	<b>211</b>	<b>202</b>
454.calculix	8	657	100	<b>658</b>	<b>100</b>	661	99.8	8	660	100	656	101	<b>660</b>	<b>100</b>
459.GemsFDTD	8	3616	23.5	3608	23.5	<b>3610</b>	<b>23.5</b>	8	3597	23.6	<b>3596</b>	<b>23.6</b>	3593	23.6
465.tonto	8	915	86.0	914	86.2	<b>914</b>	<b>86.1</b>	8	<b>905</b>	<b>87.0</b>	904	87.1	906	86.9
470.lbm	8	4560	24.1	4559	24.1	<b>4559</b>	<b>24.1</b>	8	<b>4241</b>	<b>25.9</b>	4239	25.9	4242	25.9
481.wrf	8	1954	45.7	1960	45.6	<b>1956</b>	<b>45.7</b>	8	1959	45.6	1954	45.7	<b>1956</b>	<b>45.7</b>
482.sphinx3	8	3403	45.8	3230	48.3	<b>3235</b>	<b>48.2</b>	8	3173	49.1	2996	52.0	<b>3004</b>	<b>51.9</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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