



# SPEC<sup>®</sup> CFP2006 Result

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## Acer Incorporated

### SPECfp<sup>®</sup>\_rate2006 = 50.1

### Acer Altos G330 Mk2 (Intel Xeon X3360)

### SPECfp\_rate\_base2006 = 46.7

CPU2006 license: 97

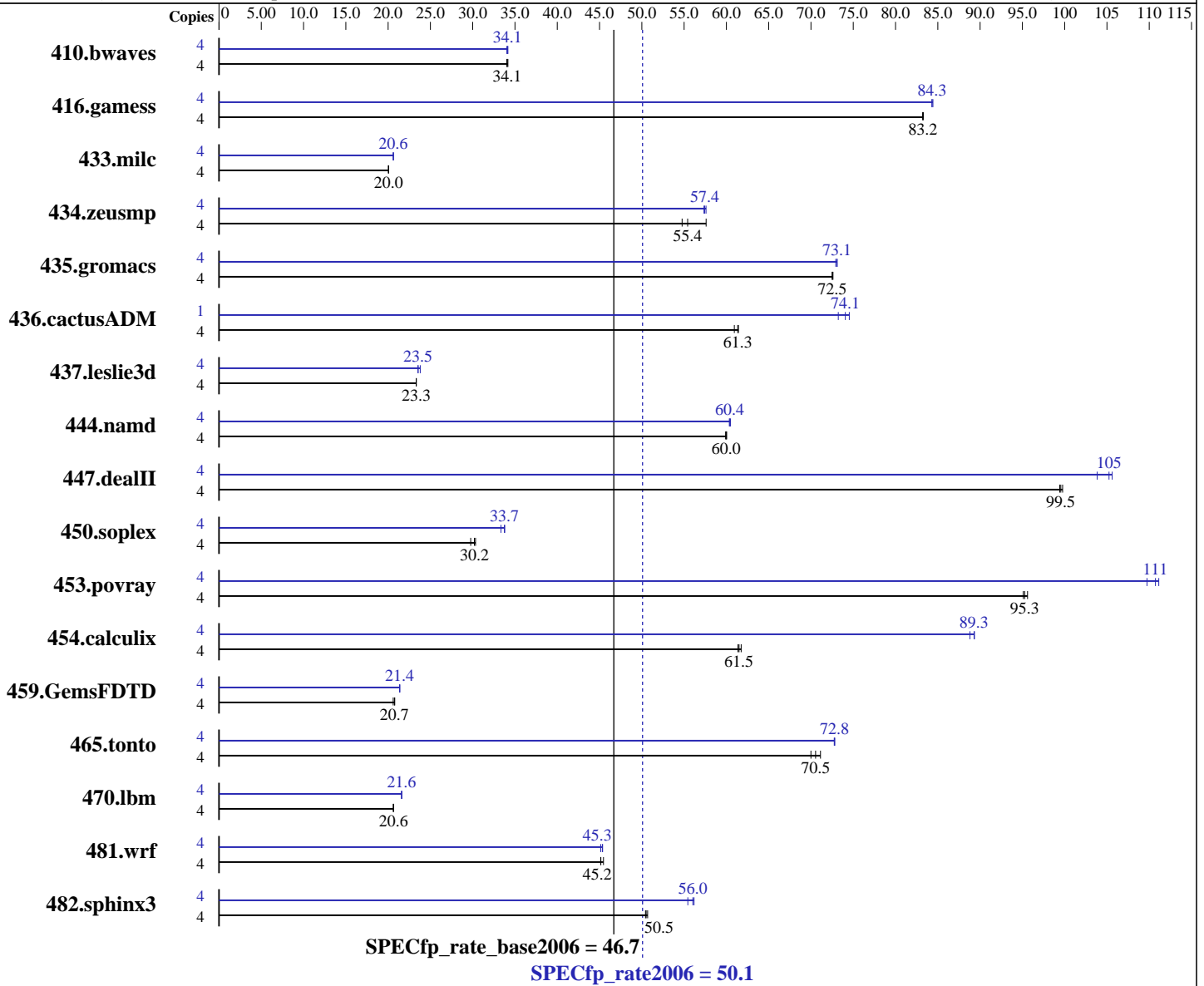
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Mar-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



#### Hardware

CPU Name: Intel Xeon X3360  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 2830  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

Continued on next page

#### Software

Operating System: SUSE Linux Enterprise Server 10 SP1 (x86\_64)  
 Kernel 2.6.16.46-0.12-smp  
 Compiler: Intel C++ and Fortran Compiler 10.1 for Linux  
 Build 20070913 Package ID: l\_cc\_p\_10.1.008,  
 l\_fc\_p\_10.1.008  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Multi-user, level 3  
 Base Pointers: 64-bit

Continued on next page



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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (4 x 2048 MB ECC Unbuffered DDR2-800 CL5)  
Disk Subsystem: 1 x 160 GB 7200RPM SATA HDD  
Other Hardware: None

Peak Pointers: 32/64-bit  
Other Software: Binutils 2.17.50.0.15

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	<b>1594</b>	<b>34.1</b>	1591	34.2	1598	34.0	4	<b>1593</b>	<b>34.1</b>	1591	34.2	1597	34.0
416.gamess	4	941	83.2	<b>941</b>	<b>83.2</b>	940	83.3	4	929	84.3	928	84.4	<b>929</b>	<b>84.3</b>
433.milc	4	<b>1832</b>	<b>20.0</b>	1831	20.1	1832	20.0	4	<b>1781</b>	<b>20.6</b>	1782	20.6	1781	20.6
434.zeusmp	4	665	54.8	<b>657</b>	<b>55.4</b>	632	57.6	4	635	57.3	632	57.6	<b>634</b>	<b>57.4</b>
435.gromacs	4	394	72.5	393	72.6	<b>394</b>	<b>72.5</b>	4	<b>391</b>	<b>73.1</b>	391	73.1	392	72.9
436.cactusADM	4	784	60.9	<b>779</b>	<b>61.3</b>	778	61.4	1	163	73.2	160	74.5	<b>161</b>	<b>74.1</b>
437.leslie3d	4	1613	23.3	<b>1612</b>	<b>23.3</b>	1612	23.3	4	1580	23.8	1597	23.5	<b>1597</b>	<b>23.5</b>
444.namd	4	536	59.9	534	60.0	<b>535</b>	<b>60.0</b>	4	532	60.3	530	60.5	<b>531</b>	<b>60.4</b>
447.dealII	4	459	99.8	<b>460</b>	<b>99.5</b>	460	99.4	4	<b>435</b>	<b>105</b>	433	106	441	104
450.soplex	4	1121	29.8	<b>1105</b>	<b>30.2</b>	1100	30.3	4	1000	33.3	<b>989</b>	<b>33.7</b>	987	33.8
453.povray	4	<b>223</b>	<b>95.3</b>	224	95.1	223	95.6	4	194	110	<b>192</b>	<b>111</b>	191	111
454.calculix	4	<b>537</b>	<b>61.5</b>	534	61.7	538	61.4	4	372	88.8	369	89.3	<b>370</b>	<b>89.3</b>
459.GemsFDTD	4	<b>2046</b>	<b>20.7</b>	2060	20.6	2042	20.8	4	1987	21.4	<b>1986</b>	<b>21.4</b>	1985	21.4
465.tonto	4	<b>558</b>	<b>70.5</b>	553	71.1	562	70.0	4	541	72.8	<b>541</b>	<b>72.8</b>	541	72.8
470.lbm	4	<b>2664</b>	<b>20.6</b>	2665	20.6	2664	20.6	4	2546	21.6	<b>2545</b>	<b>21.6</b>	2544	21.6
481.wrf	4	983	45.5	<b>990</b>	<b>45.2</b>	990	45.1	4	985	45.4	<b>986</b>	<b>45.3</b>	990	45.1
482.sphinx3	4	1546	50.4	1538	50.7	<b>1543</b>	<b>50.5</b>	4	1406	55.4	1388	56.2	<b>1391</b>	<b>56.0</b>

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## General Notes

All benchmarks compiled in 64-bit mode except 450.soplex, 470.lbm, 482.sphinx3 and 437.leslie3d, at peak, are compiled in 32-bit mode  
All results but peak 436.cactusADM used taskset to bind processes to cores.  
"ulimit -s unlimited" was set for stacksize to unlimited  
OMP\_NUM\_THREADS set to number of cores

## Base Compiler Invocation

C benchmarks:  
icc

Continued on next page



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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 -nofor\_main  
436.cactusADM: -DSPEC\_CPU\_LP64 -nofor\_main  
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 -nofor\_main  
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

C++ benchmarks:  
-fast

Fortran benchmarks:  
-fast

Benchmarks using both Fortran and C:  
-fast



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**Software Availability:** Nov-2007

## Peak Compiler Invocation

C benchmarks (except as noted below):

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include
```

433.milc: icc

C++ benchmarks (except as noted below):

icpc

```
450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include
```

Fortran benchmarks (except as noted below):

ifort

```
437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib
-I/opt/intel/fc/10.1.008/include
```

Benchmarks using both Fortran and C:

icc ifort

## Peak 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 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
444.namd: -DSPEC_CPU_LP64
447.deall: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

## Peak Optimization Flags

C benchmarks:

```
433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32
```

```
470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-scalar-rep- -prefetch -opt-malloc-options=3
```

Continued on next page



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## Peak Optimization Flags (Continued)

482.sphinx3: -fast -unroll2

### C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias  
-auto-ilp32

447.dealIII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast  
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4  
-ansi-alias

### Fortran benchmarks:

410.bwaves: -fast -prefetch

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: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch  
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0  
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -auto

### Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch  
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-prefetch -parallel -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.html>



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You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.xml>

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