



# SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Acer Incorporated

## SPECfp®\_rate2006 = 25.0

## Acer Altos G540 (Intel Xeon 5150)

## SPECfp\_rate\_base2006 = 23.2

CPU2006 license: 97

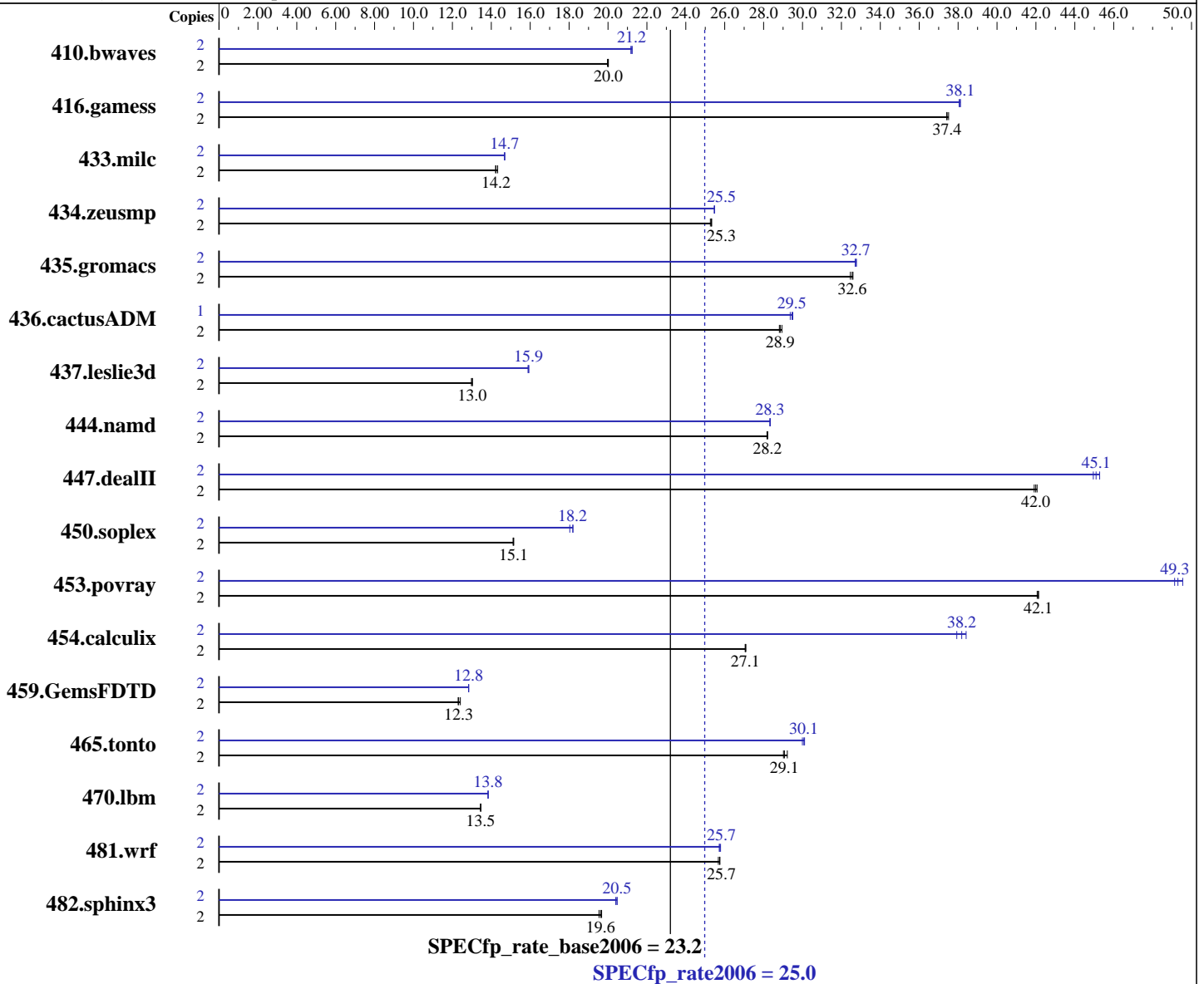
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon 5150  
 CPU Characteristics: 1333MHz system bus  
 CPU MHz: 2660  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1, 2 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip

Continued on next page

### Software

Operating System: SUSE Linux Enterprise Server 10 EM64T (kernel 2.6.16.21-0.8-smp)  
 Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070725  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Multi-user, run level 3  
 Base Pointers: 64-bit

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp\_rate2006 = 25.0

Acer Altos G540 (Intel Xeon 5150)

SPECfp\_rate\_base2006 = 23.2

CPU2006 license: 97  
Test sponsor: Acer Incorporated  
Tested by: Acer Incorporated

Test date: Oct-2007  
Hardware Availability: Nov-2006  
Software Availability: Nov-2007

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

Peak Pointers: 32/64-bit  
Other Software: MicroQuill SmartHeap Library 8.1

## Results Table

| Benchmark     | Base   |                    |                    |                    |                    |                    |                    | Peak   |                    |                    |                    |                    |                    |                    |
|---------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|               | Copies | Seconds            | Ratio              | Seconds            | Ratio              | Seconds            | Ratio              | Copies | Seconds            | Ratio              | Seconds            | Ratio              | Seconds            | Ratio              |
| 410.bwaves    | 2      | 1361               | 20.0               | 1358               | 20.0               | <b><u>1358</u></b> | <b><u>20.0</u></b> | 2      | 1284               | 21.2               | 1279               | 21.2               | <b><u>1281</u></b> | <b><u>21.2</u></b> |
| 416.gamess    | 2      | 1047               | 37.4               | 1044               | 37.5               | <b><u>1046</u></b> | <b><u>37.4</u></b> | 2      | 1029               | 38.1               | 1027               | 38.1               | <b><u>1028</u></b> | <b><u>38.1</u></b> |
| 433.milc      | 2      | 1291               | 14.2               | <b><u>1289</u></b> | <b><u>14.2</u></b> | 1281               | 14.3               | 2      | 1250               | 14.7               | <b><u>1250</u></b> | <b><u>14.7</u></b> | 1251               | 14.7               |
| 434.zeusmp    | 2      | 720                | 25.3               | <b><u>719</u></b>  | <b><u>25.3</u></b> | 718                | 25.3               | 2      | <b><u>715</u></b>  | <b><u>25.5</u></b> | 714                | 25.5               | 715                | 25.5               |
| 435.gromacs   | 2      | 438                | 32.6               | 440                | 32.5               | <b><u>439</u></b>  | <b><u>32.6</u></b> | 2      | 437                | 32.7               | <b><u>436</u></b>  | <b><u>32.7</u></b> | 436                | 32.8               |
| 436.cactusADM | 2      | 830                | 28.8               | 826                | 28.9               | <b><u>828</u></b>  | <b><u>28.9</u></b> | 1      | 407                | 29.4               | 405                | 29.5               | <b><u>406</u></b>  | <b><u>29.5</u></b> |
| 437.leslie3d  | 2      | <b><u>1444</u></b> | <b><u>13.0</u></b> | 1443               | 13.0               | 1449               | 13.0               | 2      | 1180               | 15.9               | <b><u>1181</u></b> | <b><u>15.9</u></b> | 1183               | 15.9               |
| 444.namd      | 2      | 569                | 28.2               | <b><u>569</u></b>  | <b><u>28.2</u></b> | 569                | 28.2               | 2      | <b><u>566</u></b>  | <b><u>28.3</u></b> | 566                | 28.3               | 566                | 28.3               |
| 447.dealII    | 2      | <b><u>545</u></b>  | <b><u>42.0</u></b> | 544                | 42.1               | 546                | 41.9               | 2      | <b><u>507</u></b>  | <b><u>45.1</u></b> | 509                | 45.0               | 505                | 45.3               |
| 450.soplex    | 2      | 1101               | 15.1               | <b><u>1101</u></b> | <b><u>15.1</u></b> | 1103               | 15.1               | 2      | 925                | 18.0               | <b><u>917</u></b>  | <b><u>18.2</u></b> | 916                | 18.2               |
| 453.povray    | 2      | 253                | 42.1               | 253                | 42.1               | <b><u>253</u></b>  | <b><u>42.1</u></b> | 2      | 217                | 49.1               | 215                | 49.5               | <b><u>216</u></b>  | <b><u>49.3</u></b> |
| 454.calculix  | 2      | 609                | 27.1               | 610                | 27.1               | <b><u>610</u></b>  | <b><u>27.1</u></b> | 2      | 435                | 37.9               | 430                | 38.4               | <b><u>432</u></b>  | <b><u>38.2</u></b> |
| 459.GemsFDTD  | 2      | 1710               | 12.4               | 1726               | 12.3               | <b><u>1722</u></b> | <b><u>12.3</u></b> | 2      | <b><u>1653</u></b> | <b><u>12.8</u></b> | 1653               | 12.8               | 1653               | 12.8               |
| 465.tonto     | 2      | 674                | 29.2               | <b><u>677</u></b>  | <b><u>29.1</u></b> | 678                | 29.0               | 2      | <b><u>654</u></b>  | <b><u>30.1</u></b> | 654                | 30.1               | 656                | 30.0               |
| 470.lbm       | 2      | 2041               | 13.5               | <b><u>2043</u></b> | <b><u>13.5</u></b> | 2043               | 13.4               | 2      | 1986               | 13.8               | <b><u>1986</u></b> | <b><u>13.8</u></b> | 1986               | 13.8               |
| 481.wrf       | 2      | 870                | 25.7               | <b><u>868</u></b>  | <b><u>25.7</u></b> | 867                | 25.8               | 2      | <b><u>868</u></b>  | <b><u>25.7</u></b> | 866                | 25.8               | 868                | 25.7               |
| 482.sphinx3   | 2      | <b><u>1987</u></b> | <b><u>19.6</u></b> | 1981               | 19.7               | 1995               | 19.5               | 2      | 1904               | 20.5               | 1911               | 20.4               | <b><u>1905</u></b> | <b><u>20.5</u></b> |

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

## General Notes

taskset used to bind copies to cores, except for 436.cactusADM peak  
OMP\_NUM\_THREADS was set to number of logical processors as seen by the OS  
KMP\_AFFINITY was set to physical,0

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp\_rate2006 = 25.0

Acer Altos G540 (Intel Xeon 5150)

SPECfp\_rate\_base2006 = 23.2

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007

## Base Compiler Invocation (Continued)

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

## Peak Compiler Invocation

C benchmarks (except as noted below):

/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icc  
 -L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib

Continued on next page

Standard Performance Evaluation Corporation

info@spec.org

http://www.spec.org/



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Acer Incorporated**

**SPECfp\_rate2006 = 25.0**

**Acer Altos G540 (Intel Xeon 5150)**

**SPECfp\_rate\_base2006 = 23.2**

**CPU2006 license:** 97

**Test sponsor:** Acer Incorporated

**Tested by:** Acer Incorporated

**Test date:** Oct-2007

**Hardware Availability:** Nov-2006

**Software Availability:** Nov-2007

## Peak Compiler Invocation (Continued)

C benchmarks (except as noted below) (continued):

-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icpc

-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib

-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/ifort

-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib

-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/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.dealII: -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

Continued on next page

Standard Performance Evaluation Corporation

info@spec.org

http://www.spec.org/

Page 4



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp\_rate2006 = 25.0

Acer Altos G540 (Intel Xeon 5150)

SPECfp\_rate\_base2006 = 23.2

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007

## Peak Optimization Flags (Continued)

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

482.sphinx3: -fast -unroll2

### 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) -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



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp\_rate2006 = 25.0

Acer Altos G540 (Intel Xeon 5150)

SPECfp\_rate\_base2006 = 23.2

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Oct-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2007

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.17.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.17.xml>

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 13:38:24 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 30 November 2007.