



# SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Acer Incorporated

SPECfp®2006 = 26.3

## Acer AT110 F1 (Intel Xeon X3380)

SPECfp\_base2006 = 25.5

CPU2006 license: 97

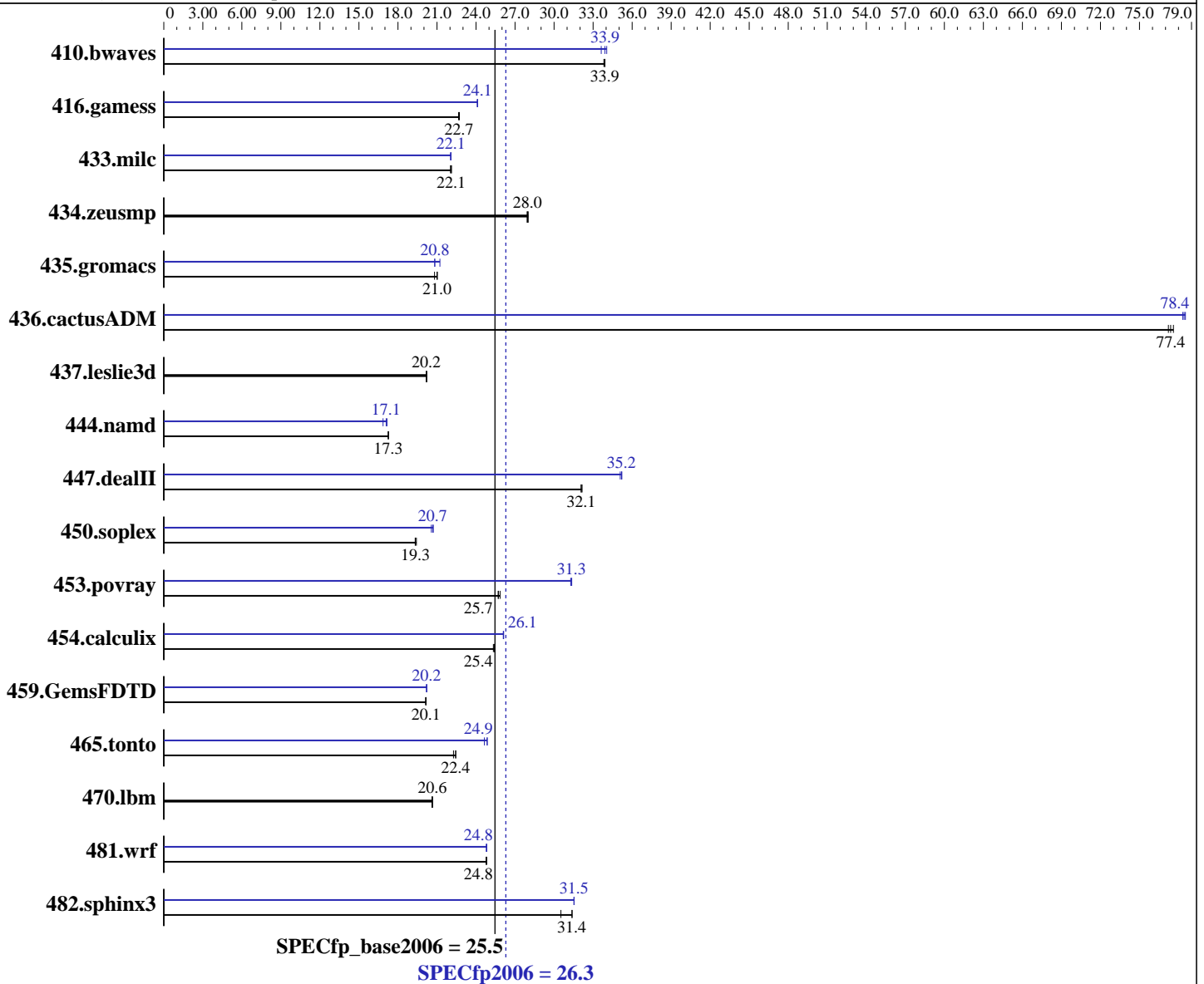
Test date: Nov-2009

Test sponsor: Acer Incorporated

Hardware Availability: Dec-2009

Tested by: Acer Incorporated

Software Availability: Nov-2008



### Hardware

CPU Name: Intel Xeon X3380  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 3167  
 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 11 (x86\_64)  
 Kernel 2.6.27.19-5  
 Compiler: Intel C++ and Fortran Compiler 11.0 for Linux  
 Build 20080930 Package ID: l\_cproc\_p\_11.0.066,  
 l\_cprof\_p\_11.0.066  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Multi-user, level 3  
 Base Pointers: 64-bit

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp2006 = 26.3

Acer AT110 F1 (Intel Xeon X3380)

SPECfp\_base2006 = 25.5

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2009

Hardware Availability: Dec-2009

Software Availability: Nov-2008

L3 Cache: None  
Other Cache: None  
Memory: 8 GB (4 x 2048 MB ECC Unbuffered DDR2-800 CL5)  
Disk Subsystem: 1 x 640 GB 7200RPM SATA HDD  
Other Hardware: None

Peak Pointers: 32/64-bit  
Other Software: Microquill SmartHeap V8.1  
Binutils 2.18.50.0.7.20080502

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	401	33.9	<b>401</b>	<b>33.9</b>	402	33.8	404	33.6	<b>401</b>	<b>33.9</b>	399	34.0
416.gamess	862	22.7	<b>863</b>	<b>22.7</b>	864	22.7	812	24.1	<b>812</b>	<b>24.1</b>	813	24.1
433.milc	417	22.0	415	22.1	<b>415</b>	<b>22.1</b>	416	22.1	417	22.0	<b>416</b>	<b>22.1</b>
434.zeusmp	326	27.9	<b>325</b>	<b>28.0</b>	325	28.0	326	27.9	<b>325</b>	<b>28.0</b>	325	28.0
435.gromacs	<b>340</b>	<b>21.0</b>	343	20.8	340	21.0	336	21.2	<b>343</b>	<b>20.8</b>	343	20.8
436.cactusADM	<b>154</b>	<b>77.4</b>	155	77.2	154	77.6	152	78.5	153	78.3	<b>152</b>	<b>78.4</b>
437.leslie3d	465	20.2	466	20.2	<b>466</b>	<b>20.2</b>	465	20.2	466	20.2	<b>466</b>	<b>20.2</b>
444.namd	465	17.3	465	17.3	<b>465</b>	<b>17.3</b>	476	16.9	467	17.2	<b>469</b>	<b>17.1</b>
447.dealII	357	32.1	356	32.2	<b>356</b>	<b>32.1</b>	326	35.1	325	35.2	<b>325</b>	<b>35.2</b>
450.soplex	429	19.4	432	19.3	<b>431</b>	<b>19.3</b>	<b>403</b>	<b>20.7</b>	406	20.6	403	20.7
453.povray	206	25.8	207	25.7	<b>207</b>	<b>25.7</b>	170	31.4	170	31.3	<b>170</b>	<b>31.3</b>
454.calculix	325	25.4	<b>325</b>	<b>25.4</b>	326	25.3	316	26.1	316	26.1	<b>316</b>	<b>26.1</b>
459.GemsFDTD	<b>527</b>	<b>20.1</b>	527	20.1	526	20.2	525	20.2	<b>525</b>	<b>20.2</b>	525	20.2
465.tonto	438	22.4	442	22.3	<b>439</b>	<b>22.4</b>	399	24.6	396	24.9	<b>396</b>	<b>24.9</b>
470.lbm	667	20.6	<b>666</b>	<b>20.6</b>	665	20.7	667	20.6	<b>666</b>	<b>20.6</b>	665	20.7
481.wrf	450	24.8	<b>450</b>	<b>24.8</b>	451	24.8	450	24.8	450	24.8	<b>450</b>	<b>24.8</b>
482.sphinx3	621	31.4	638	30.5	<b>621</b>	<b>31.4</b>	<b>618</b>	<b>31.5</b>	618	31.5	618	31.5

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

## Operating System Notes

'ulimit -s unlimited' was set for stacksize unlimited

## General Notes

OMP\_NUM\_THREADS set to number of processors  
KMP\_AFFINITY set to "physical,0"  
KMP\_STACKSIZE set to 200M

This result was measured on the Gateway GT110 F1.  
The Acer AT110 F1 and Gateway GT110 F1 are electronically equivalent.



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

<b>Acer Incorporated</b>	<b>SPECfp2006 =</b>	<b>26.3</b>
<b>Acer AT110 F1 (Intel Xeon X3380)</b>	<b>SPECfp_base2006 =</b>	<b>25.5</b>

<b>CPU2006 license:</b> 97	<b>Test date:</b> Nov-2009
<b>Test sponsor:</b> Acer Incorporated	<b>Hardware Availability:</b> Dec-2009
<b>Tested by:</b> Acer Incorporated	<b>Software Availability:</b> Nov-2008

## Base Compiler Invocation

C benchmarks:  
icc

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:  
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

C++ benchmarks:  
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Fortran benchmarks:  
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Benchmarks using both Fortran and C:  
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Acer Incorporated**

**SPECfp2006 = 26.3**

**Acer AT110 F1 (Intel Xeon X3380)**

**SPECfp\_base2006 = 25.5**

**CPU2006 license:** 97

**Test sponsor:** Acer Incorporated

**Tested by:** Acer Incorporated

**Test date:** Nov-2009

**Hardware Availability:** Dec-2009

**Software Availability:** Nov-2008

## Peak Compiler Invocation

C benchmarks (except as noted below):

icc

482.sphinx3: icc -m32

C++ benchmarks (except as noted below):

icpc

450.soplex: icpc -m32

Fortran benchmarks:

ifort

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  
 437.leslie3d: -DSPEC\_CPU\_LP64  
 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  
 470.lbm: -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) -xSSE4.1 -ipo -O3  
-no-prec-div -static -fno-alias

470.lbm: basepeak = yes

482.sphinx3: -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll2

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp2006 = 26.3

Acer AT110 F1 (Intel Xeon X3380)

SPECfp\_base2006 = 25.5

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2009

Hardware Availability: Dec-2009

Software Availability: Nov-2008

## Peak Optimization Flags (Continued)

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -fno-alias -auto-ilp32

447.deallI: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -unroll2 -ansi-alias -scalar-rep-  
-opt-prefetch

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch  
-parallel

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -unroll2 -Ob0 -ansi-alias  
-scalar-rep-

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -unroll2 -Ob0 -opt-prefetch  
-parallel

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -opt-prefetch -auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3  
-no-prec-div -static -unroll2 -opt-prefetch -parallel  
-auto-ilp32

454.calculix: -xSSE4.1 -ipo -O3 -no-prec-div -static -auto-ilp32

481.wrf: -xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch  
-parallel -auto-ilp32



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

<b>Acer Incorporated</b>	<b>SPECfp2006 =</b>	<b>26.3</b>
<b>Acer AT110 F1 (Intel Xeon X3380)</b>	<b>SPECfp_base2006 =</b>	<b>25.5</b>

<b>CPU2006 license:</b> 97	<b>Test date:</b> Nov-2009
<b>Test sponsor:</b> Acer Incorporated	<b>Hardware Availability:</b> Dec-2009
<b>Tested by:</b> Acer Incorporated	<b>Software Availability:</b> Nov-2008

The flags file that was used to format this result can be browsed at  
<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revF.20100209.html>

You can also download the XML flags source by saving the following link:  
<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revF.20100209.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 v1.1.  
 Report generated on Wed Jul 23 05:57:22 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
 Originally published on 9 February 2010.