



# SPEC<sup>®</sup> CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Acer Incorporated

SPECfp<sup>®</sup>2006 = 24.2

## Gateway GT110 F1 (Intel Xeon E3110)

SPECfp\_base2006 = 23.3

CPU2006 license: 97

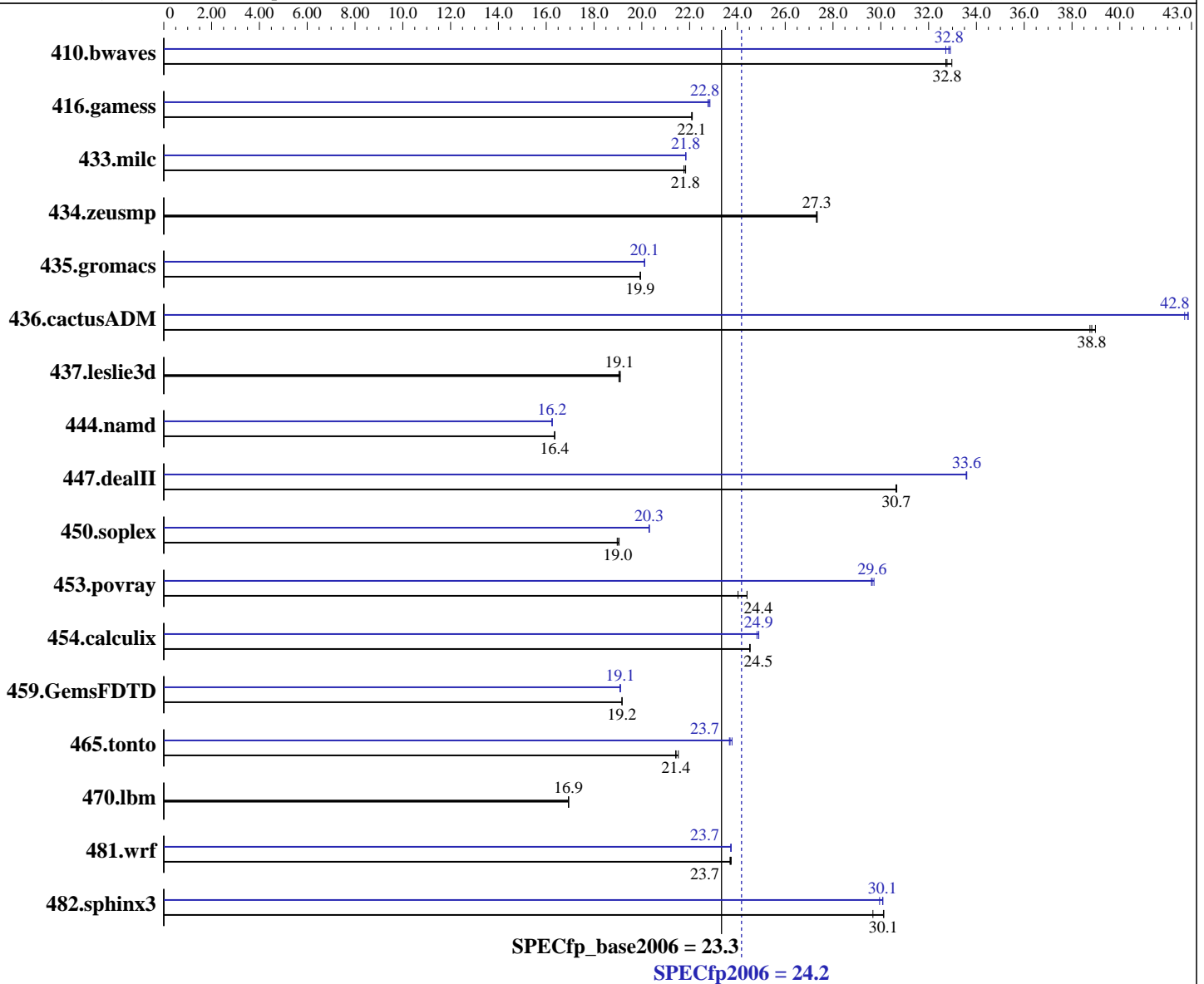
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2009

Hardware Availability: Dec-2009

Software Availability: Nov-2008



**Hardware**

CPU Name: Intel Xeon E3110  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 6 MB I+D on chip per chip

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 = 24.2

Gateway GT110 F1 (Intel Xeon E3110)

SPECfp\_base2006 = 23.3

CPU2006 license: 97

Test date: Nov-2009

Test sponsor: Acer Incorporated

Hardware Availability: Dec-2009

Tested by: Acer Incorporated

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	412	33.0	<b>415</b>	<b>32.8</b>	415	32.7	415	32.7	413	32.9	<b>414</b>	<b>32.8</b>
416.gamess	885	22.1	<b>886</b>	<b>22.1</b>	886	22.1	857	22.9	860	22.8	<b>858</b>	<b>22.8</b>
433.milc	422	21.8	420	21.8	<b>421</b>	<b>21.8</b>	420	21.8	<b>420</b>	<b>21.8</b>	420	21.8
434.zeusmp	333	27.3	<b>333</b>	<b>27.3</b>	333	27.3	333	27.3	<b>333</b>	<b>27.3</b>	333	27.3
435.gromacs	<b>358</b>	<b>19.9</b>	358	19.9	358	19.9	355	20.1	<b>355</b>	<b>20.1</b>	355	20.1
436.cactusADM	308	38.8	307	39.0	<b>308</b>	<b>38.8</b>	280	42.7	<b>279</b>	<b>42.8</b>	279	42.9
437.leslie3d	492	19.1	<b>493</b>	<b>19.1</b>	494	19.0	492	19.1	<b>493</b>	<b>19.1</b>	494	19.0
444.namd	491	16.3	<b>490</b>	<b>16.4</b>	490	16.4	<b>494</b>	<b>16.2</b>	494	16.2	493	16.3
447.dealII	373	30.6	373	30.7	<b>373</b>	<b>30.7</b>	341	33.6	<b>341</b>	<b>33.6</b>	341	33.6
450.soplex	438	19.1	<b>439</b>	<b>19.0</b>	440	19.0	411	20.3	410	20.3	<b>411</b>	<b>20.3</b>
453.povray	221	24.0	<b>218</b>	<b>24.4</b>	218	24.4	179	29.7	180	29.6	<b>179</b>	<b>29.6</b>
454.calculix	336	24.5	<b>336</b>	<b>24.5</b>	336	24.5	332	24.8	<b>332</b>	<b>24.9</b>	331	24.9
459.GemsFDTD	553	19.2	<b>553</b>	<b>19.2</b>	553	19.2	<b>556</b>	<b>19.1</b>	556	19.1	555	19.1
465.tonto	457	21.5	459	21.4	<b>459</b>	<b>21.4</b>	414	23.8	416	23.7	<b>415</b>	<b>23.7</b>
470.lbm	812	16.9	811	16.9	<b>811</b>	<b>16.9</b>	812	16.9	811	16.9	<b>811</b>	<b>16.9</b>
481.wrf	<b>471</b>	<b>23.7</b>	471	23.7	472	23.7	471	23.7	<b>471</b>	<b>23.7</b>	471	23.7
482.sphinx3	647	30.1	657	29.7	<b>647</b>	<b>30.1</b>	<b>648</b>	<b>30.1</b>	648	30.1	651	29.9

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

Acer Incorporated

SPECfp2006 = 24.2

Gateway GT110 F1 (Intel Xeon E3110)

SPECfp\_base2006 = 23.3

CPU2006 license: 97

Test date: Nov-2009

Test sponsor: Acer Incorporated

Hardware Availability: Dec-2009

Tested by: Acer Incorporated

Software Availability: 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 = 24.2

Gateway GT110 F1 (Intel Xeon E3110)

SPECfp\_base2006 = 23.3

CPU2006 license: 97

Test date: Nov-2009

Test sponsor: Acer Incorporated

Hardware Availability: Dec-2009

Tested by: Acer Incorporated

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 = 24.2

Gateway GT110 F1 (Intel Xeon E3110)

SPECfp\_base2006 = 23.3

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

Acer Incorporated	SPECfp2006 =	24.2
Gateway GT110 F1 (Intel Xeon E3110)	SPECfp_base2006 =	23.3

<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 05:58:03 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
 Originally published on 9 February 2010.