



SPEC[®] CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp[®]_rate2006 = 54.1

Gateway GT110 F1 (Intel Xeon X3380)

SPECfp_rate_base2006 = 51.9

CPU2006 license: 97

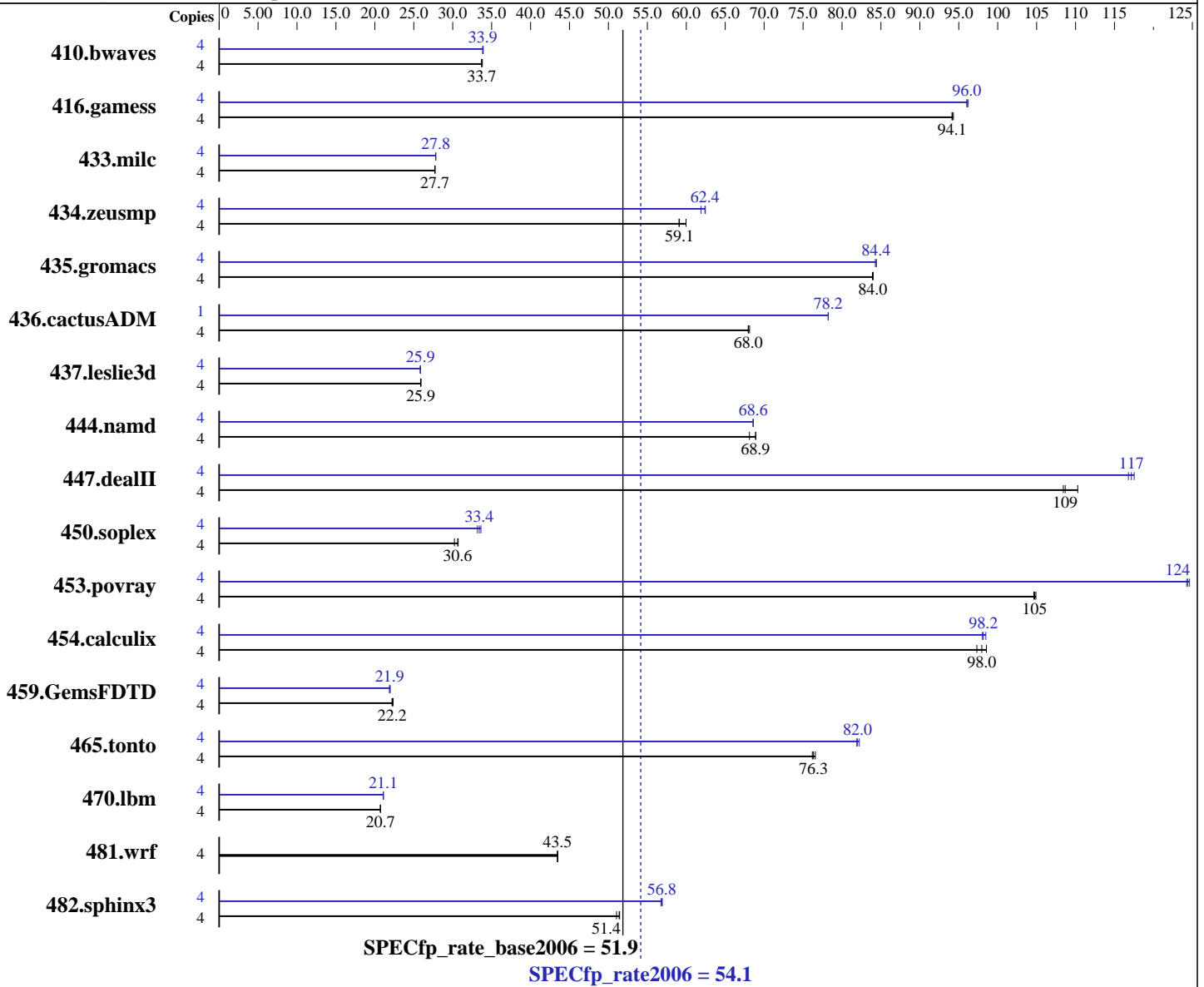
Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2009

Hardware Availability: Dec-2009

Software Availability: Nov-2008



Hardware

CPU Name: Intel Xeon 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_cprof_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

SPECfp_rate2006 = 54.1

Gateway GT110 F1 (Intel Xeon X3380)

SPECfp_rate_base2006 = 51.9

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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1613	33.7	<u>1612</u>	<u>33.7</u>	1608	33.8	4	1603	33.9	<u>1605</u>	<u>33.9</u>	1606	33.8
416.gamess	4	830	94.3	832	94.1	<u>832</u>	<u>94.1</u>	4	<u>816</u>	<u>96.0</u>	816	96.0	814	96.2
433.milc	4	1324	27.7	<u>1325</u>	<u>27.7</u>	1326	27.7	4	1319	27.8	1321	27.8	<u>1320</u>	<u>27.8</u>
434.zeusmp	4	616	59.1	607	60.0	<u>616</u>	<u>59.1</u>	4	<u>583</u>	<u>62.4</u>	583	62.5	588	61.9
435.gromacs	4	340	83.9	<u>340</u>	<u>84.0</u>	340	84.0	4	338	84.4	<u>338</u>	<u>84.4</u>	339	84.3
436.cactusADM	4	703	68.0	702	68.1	<u>703</u>	<u>68.0</u>	1	153	78.2	<u>153</u>	<u>78.2</u>	153	78.2
437.leslie3d	4	<u>1452</u>	<u>25.9</u>	1453	25.9	1450	25.9	4	1456	25.8	<u>1454</u>	<u>25.9</u>	1454	25.9
444.namd	4	<u>466</u>	<u>68.9</u>	471	68.1	465	68.9	4	468	68.6	<u>468</u>	<u>68.6</u>	467	68.6
447.dealII	4	<u>421</u>	<u>109</u>	422	108	415	110	4	<u>391</u>	<u>117</u>	389	118	392	117
450.soplex	4	1104	30.2	<u>1089</u>	<u>30.6</u>	1087	30.7	4	1006	33.2	<u>998</u>	<u>33.4</u>	992	33.6
453.povray	4	203	105	203	105	<u>203</u>	<u>105</u>	4	171	124	<u>171</u>	<u>124</u>	171	125
454.calculix	4	339	97.3	<u>337</u>	<u>98.0</u>	335	98.6	4	337	98.0	335	98.5	<u>336</u>	<u>98.2</u>
459.GemsFDTD	4	1900	22.3	<u>1910</u>	<u>22.2</u>	1910	22.2	4	1931	22.0	<u>1938</u>	<u>21.9</u>	1939	21.9
465.tonto	4	517	76.2	<u>516</u>	<u>76.3</u>	514	76.6	4	<u>480</u>	<u>82.0</u>	481	81.9	479	82.2
470.lbm	4	2652	20.7	2653	20.7	<u>2653</u>	<u>20.7</u>	4	2607	21.1	2606	21.1	<u>2606</u>	<u>21.1</u>
481.wrf	4	1027	43.5	1028	43.4	<u>1028</u>	<u>43.5</u>	4	1027	43.5	1028	43.4	<u>1028</u>	<u>43.5</u>
482.sphinx3	4	1527	51.0	<u>1517</u>	<u>51.4</u>	1515	51.4	4	1370	56.9	<u>1372</u>	<u>56.8</u>	1374	56.8

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

Submit Notes

The config file option 'submit' was used.

Operating System Notes

'ulimit -s unlimited' was set for stacksize unlimited

General Notes

taskset was used to bind processes to cores except
for 436.cactusADM peak
OMP_NUM_THREADS set to number of processors
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 64M

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp_rate2006 = 54.1

Gateway GT110 F1 (Intel Xeon X3380)

SPECfp_rate_base2006 = 51.9

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Nov-2009

Hardware Availability: Dec-2009

Software Availability: Nov-2008

General Notes (Continued)

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

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 -opt-prefetch

C++ benchmarks:

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp_rate2006 = 54.1

Gateway GT110 F1 (Intel Xeon X3380)

SPECfp_rate_base2006 = 51.9

CPU2006 license: 97

Test date: Nov-2009

Test sponsor: Acer Incorporated

Hardware Availability: Dec-2009

Tested by: Acer Incorporated

Software Availability: Nov-2008

Base Optimization Flags (Continued)

Fortran benchmarks:

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

Benchmarks using both Fortran and C:

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

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 (except as noted below):

ifort

437.leslie3d: ifort -m32

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
 470.lbm: -DSPEC_CPU_LP64
 481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp_rate2006 = 54.1

Gateway GT110 F1 (Intel Xeon X3380)

SPECfp_rate_base2006 = 51.9

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

C benchmarks:

433.milc: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -fno-alias

470.lbm: -xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch
-auto-ilp32

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

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

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

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

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -opt-malloc-options=3 -opt-prefetch

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

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp_rate2006 = 54.1

Gateway GT110 F1 (Intel Xeon X3380)

SPECfp_rate_base2006 = 51.9

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)

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: basepeak = yes

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.

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 05:57:38 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 9 February 2010.