



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp®2006 = 44.1

Gateway GR380 F1 (Intel Xeon X5570)

SPECfp_base2006 = 40.7

CPU2006 license: 97

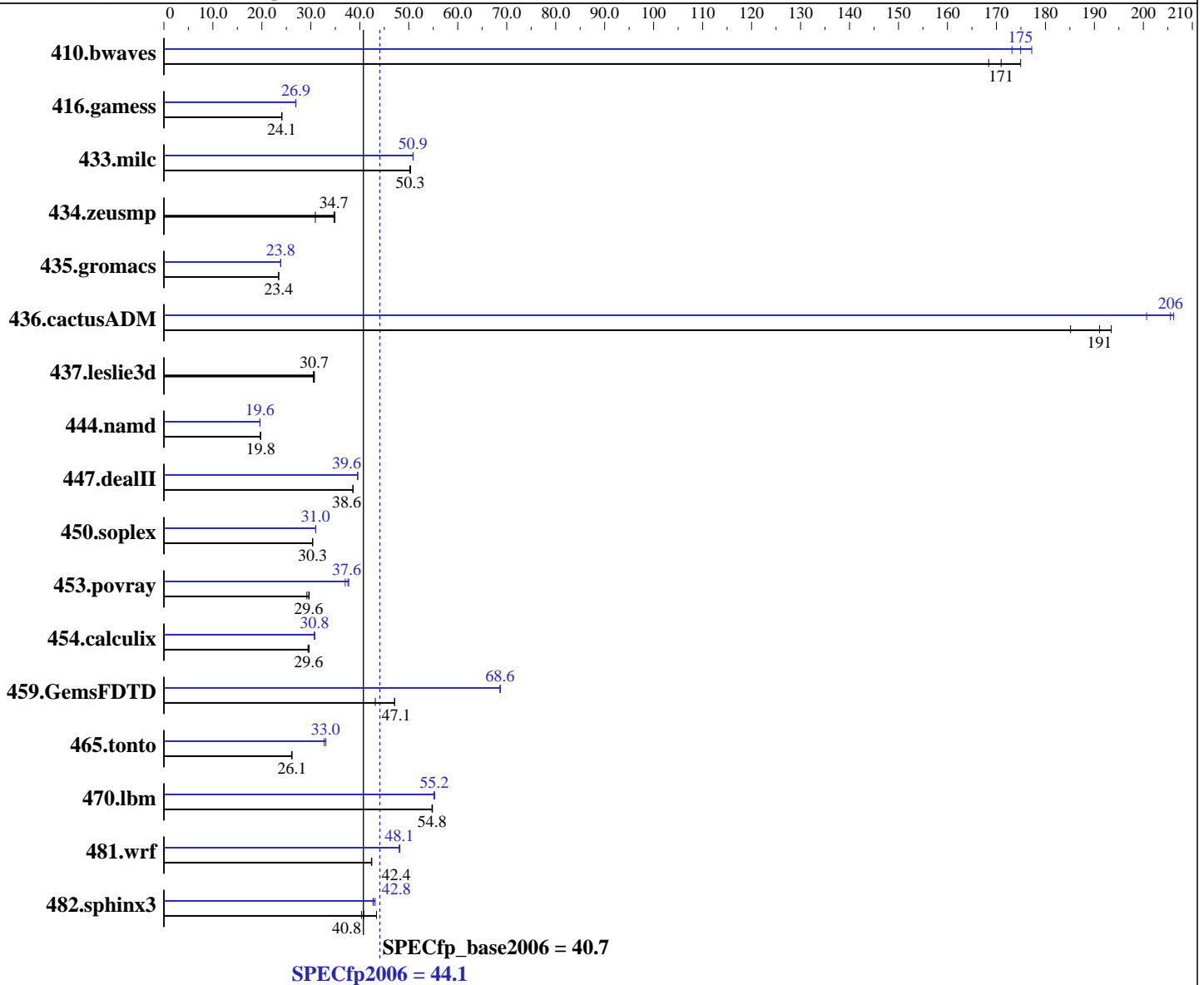
Test date: Mar-2010

Test sponsor: Acer Incorporated

Hardware Availability: Jan-2010

Tested by: Acer Incorporated

Software Availability: Oct-2009



Hardware

CPU Name: Intel Xeon X5570
 CPU Characteristics: Intel Turbo Boost Technology up to 3.33 GHz
 CPU MHz: 2933
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core

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 Professional Compiler for IA32 and Intel 64, Version 11.1
 Build 20091012 Package ID: l_cproc_p_11.1.059, l_cprof_p_11.1.059
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Run level 3 (multi-user)

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp2006 = 44.1

Gateway GR380 F1 (Intel Xeon X5570)

SPECfp_base2006 = 40.7

CPU2006 license: 97

Test date: Mar-2010

Test sponsor: Acer Incorporated

Hardware Availability: Jan-2010

Tested by: Acer Incorporated

Software Availability: Oct-2009

L3 Cache: 8 MB I+D on chip per chip
Other Cache: None
Memory: 24 GB (6 x 4GB DDR3-1333 RDIMM)
Disk Subsystem: 1000 GB SATA II, 7200 RPM
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: 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	77.7	175	80.7	168	<u>79.5</u>	<u>171</u>	76.7	177	<u>77.7</u>	<u>175</u>	78.5	173
416.gamess	<u>813</u>	<u>24.1</u>	813	24.1	814	24.1	727	26.9	<u>727</u>	<u>26.9</u>	726	27.0
433.milc	182	50.4	183	50.2	<u>182</u>	<u>50.3</u>	180	50.9	180	50.9	<u>180</u>	<u>50.9</u>
434.zeusmp	294	30.9	<u>262</u>	<u>34.7</u>	260	34.9	294	30.9	<u>262</u>	<u>34.7</u>	260	34.9
435.gromacs	<u>305</u>	<u>23.4</u>	305	23.4	305	23.4	<u>299</u>	<u>23.8</u>	299	23.9	300	23.8
436.cactusADM	61.8	193	<u>62.5</u>	<u>191</u>	64.5	185	58.0	206	<u>58.1</u>	<u>206</u>	59.6	201
437.leslie3d	306	30.7	<u>306</u>	<u>30.7</u>	308	30.5	306	30.7	<u>306</u>	<u>30.7</u>	308	30.5
444.namd	<u>405</u>	<u>19.8</u>	407	19.7	405	19.8	409	19.6	<u>409</u>	<u>19.6</u>	409	19.6
447.dealII	296	38.6	296	38.6	<u>296</u>	<u>38.6</u>	<u>289</u>	<u>39.6</u>	289	39.6	289	39.6
450.soplex	275	30.3	274	30.4	<u>275</u>	<u>30.3</u>	269	31.0	269	31.0	<u>269</u>	<u>31.0</u>
453.povray	182	29.2	<u>180</u>	<u>29.6</u>	179	29.7	<u>142</u>	<u>37.6</u>	144	37.0	141	37.8
454.calculix	<u>279</u>	<u>29.6</u>	280	29.4	278	29.7	268	30.8	269	30.7	<u>268</u>	<u>30.8</u>
459.GemsFDTD	225	47.1	246	43.2	<u>225</u>	<u>47.1</u>	155	68.6	<u>155</u>	<u>68.6</u>	154	68.7
465.tonto	376	26.1	<u>376</u>	<u>26.1</u>	378	26.1	301	32.7	298	33.1	<u>298</u>	<u>33.0</u>
470.lbm	251	54.8	<u>251</u>	<u>54.8</u>	251	54.8	249	55.3	<u>249</u>	<u>55.2</u>	249	55.1
481.wrf	264	42.4	263	42.4	<u>263</u>	<u>42.4</u>	<u>232</u>	<u>48.1</u>	232	48.2	232	48.1
482.sphinx3	<u>478</u>	<u>40.8</u>	449	43.4	483	40.4	<u>455</u>	<u>42.8</u>	452	43.2	456	42.7

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 cores
KMP_AFFINITY set to granularity=fine,scatter
KMP_STACKSIZE set to 200M
This result was measured on the Gateway GR380 F1.
The Acer AR380 F1 and Gateway GR380 F1 are electronically equivalent.



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp2006 = 44.1

Gateway GR380 F1 (Intel Xeon X5570)

SPECfp_base2006 = 40.7

CPU2006 license: 97

Test date: Mar-2010

Test sponsor: Acer Incorporated

Hardware Availability: Jan-2010

Tested by: Acer Incorporated

Software Availability: Oct-2009

Base Compiler Invocation

C benchmarks:

icc -m64

C++ benchmarks:

icpc -m64

Fortran benchmarks:

ifort -m64

Benchmarks using both Fortran and C:

icc -m64 ifort -m64

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:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Fortran benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Benchmarks using both Fortran and C:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp2006 = 44.1

Gateway GR380 F1 (Intel Xeon X5570)

SPECfp_base2006 = 40.7

CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Mar-2010

Hardware Availability: Jan-2010

Software Availability: Oct-2009

Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m64

482.sphinx3: icc -m32

C++ benchmarks (except as noted below):

icpc -m64

450.soplex: icpc -m32

Fortran benchmarks:

ifort -m64

Benchmarks using both Fortran and C:

icc -m64 ifort -m64

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

470.lbm: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -parallel -ansi-alias -auto-ilp32

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated

SPECfp2006 = 44.1

Gateway GR380 F1 (Intel Xeon X5570)

SPECfp_base2006 = 40.7

CPU2006 license: 97

Test date: Mar-2010

Test sponsor: Acer Incorporated

Hardware Availability: Jan-2010

Tested by: Acer Incorporated

Software Availability: Oct-2009

Peak Optimization Flags (Continued)

482.sphinx3: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2

C++ benchmarks:

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

447.dealII: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -ansi-alias -scalar-rep- -auto-ilp32

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

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

Fortran benchmarks:

410.bwaves: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch
-parallel

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

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

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

465.tonto: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-inline-calloc -opt-malloc-options=3 -auto -unroll4

Benchmarks using both Fortran and C:

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

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Acer Incorporated	SPECfp2006 =	44.1
Gateway GR380 F1 (Intel Xeon X5570)	SPECfp_base2006 =	40.7

CPU2006 license: 97	Test date: Mar-2010
Test sponsor: Acer Incorporated	Hardware Availability: Jan-2010
Tested by: Acer Incorporated	Software Availability: Oct-2009

Peak Optimization Flags (Continued)

454.calculix: -xSSE4.2 -ipo -O3 -no-prec-div -static -auto-ilp32
 481.wrf: Same as 454.calculix

The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/Intel-ic11.1-fp-linux64-revE.20100202.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/Intel-ic11.1-fp-linux64-revE.20100202.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 09:51:45 2014 by SPEC CPU2006 PS/PDF formatter v6932.
 Originally published on 14 April 2010.