



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.
NTT Business W 907G

SPECfp®_rate2006 = 24.0

SPECfp_rate_base2006 = 23.3

CPU2006 license: 9013

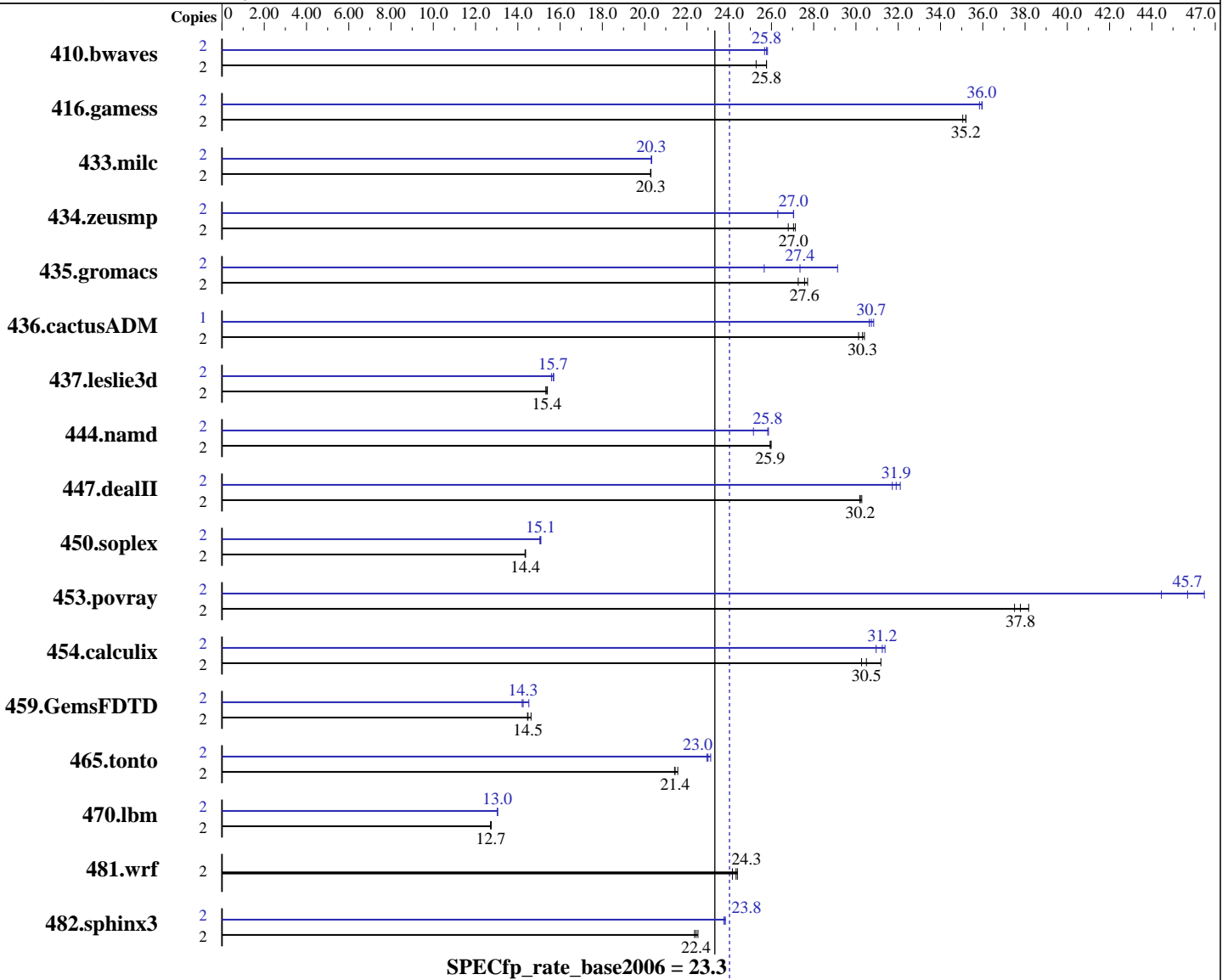
Test sponsor: NTT System S. A.

Tested by: NTT System S. A.

Test date: Jul-2009

Hardware Availability: Jul-2009

Software Availability: Nov-2008



Hardware

CPU Name: Intel Celeron E3200
 CPU Characteristics:
 CPU MHz: 2400
 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: 1 MB I+D on chip per chip

Continued on next page

Software

Operating System: SuSe Linux SLES10 SP2, Kernel 2.6.16.60-0.21-smp
 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: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: 32/64-bit

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.
NTT Business W 907G

SPECfp_rate2006 = 24.0
SPECfp_rate_base2006 = 23.3

CPU2006 license: 9013
Test sponsor: NTT System S. A.
Tested by: NTT System S. A.

Test date: Jul-2009
Hardware Availability: Jul-2009
Software Availability: Nov-2008

L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB) DDR2 800Mhz
Disk Subsystem: 250 GB SATA, 7200RPM
Other Hardware: None

Other Software: None

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	2	1075	25.3	<u>1055</u>	<u>25.8</u>	1055	25.8	2	1059	25.7	1053	25.8	<u>1055</u>	<u>25.8</u>		
416.gamess	2	1117	35.1	<u>1113</u>	<u>35.2</u>	1112	35.2	2	<u>1089</u>	<u>36.0</u>	1093	35.8	1089	36.0		
433.milc	2	<u>905</u>	<u>20.3</u>	905	20.3	904	20.3	2	903	20.3	904	20.3	<u>903</u>	<u>20.3</u>		
434.zeusmp	2	<u>673</u>	<u>27.0</u>	679	26.8	671	27.1	2	692	26.3	<u>673</u>	<u>27.0</u>	673	27.1		
435.gromacs	2	<u>518</u>	<u>27.6</u>	515	27.7	524	27.3	2	<u>522</u>	<u>27.4</u>	490	29.1	557	25.7		
436.cactusADM	2	786	30.4	793	30.1	<u>788</u>	<u>30.3</u>	1	390	30.6	<u>389</u>	<u>30.7</u>	387	30.8		
437.leslie3d	2	<u>1223</u>	<u>15.4</u>	1227	15.3	1221	15.4	2	<u>1199</u>	<u>15.7</u>	1197	15.7	1206	15.6		
444.namd	2	617	26.0	618	25.9	<u>618</u>	<u>25.9</u>	2	<u>621</u>	<u>25.8</u>	638	25.1	620	25.9		
447.dealII	2	<u>757</u>	<u>30.2</u>	756	30.3	758	30.2	2	713	32.1	<u>717</u>	<u>31.9</u>	721	31.7		
450.soplex	2	<u>1162</u>	<u>14.4</u>	1161	14.4	1163	14.3	2	1109	15.0	1106	15.1	<u>1106</u>	<u>15.1</u>		
453.povray	2	279	38.2	<u>282</u>	<u>37.8</u>	284	37.5	2	239	44.5	229	46.5	<u>233</u>	<u>45.7</u>		
454.calculix	2	<u>541</u>	<u>30.5</u>	545	30.3	529	31.2	2	533	31.0	<u>528</u>	<u>31.2</u>	526	31.4		
459.GemsFDTD	2	1451	14.6	<u>1465</u>	<u>14.5</u>	1468	14.5	2	1494	14.2	1461	14.5	<u>1489</u>	<u>14.3</u>		
465.tonto	2	919	21.4	<u>918</u>	<u>21.4</u>	912	21.6	2	858	22.9	<u>856</u>	<u>23.0</u>	851	23.1		
470.lbm	2	2158	12.7	<u>2159</u>	<u>12.7</u>	2162	12.7	2	2109	13.0	<u>2108</u>	<u>13.0</u>	2107	13.0		
481.wrf	2	916	24.4	<u>918</u>	<u>24.3</u>	925	24.2	2	916	24.4	<u>918</u>	<u>24.3</u>	925	24.2		
482.sphinx3	2	1731	22.5	<u>1737</u>	<u>22.4</u>	1743	22.4	2	1636	23.8	<u>1640</u>	<u>23.8</u>	1641	23.8		

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.

General Notes

numactl was used to bind processes to cores
OMP_NUM_THREADS set to number of processors
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 64M



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.
NTT Business W 907G

SPECfp_rate2006 = 24.0

SPECfp_rate_base2006 = 23.3

CPU2006 license: 9013

Test sponsor: NTT System S. A.

Tested by: NTT System S. A.

Test date: Jul-2009

Hardware Availability: Jul-2009

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:

-xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

C++ benchmarks:

-xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

Fortran benchmarks:

-xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

Benchmarks using both Fortran and C:

-xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.
NTT Business W 907G

SPECfp_rate2006 = 24.0

SPECfp_rate_base2006 = 23.3

CPU2006 license: 9013

Test sponsor: NTT System S. A.

Tested by: NTT System S. A.

Test date: Jul-2009

Hardware Availability: Jul-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 (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

Peak Optimization Flags

C benchmarks:

433.milc: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -fno-alias

470.lbm: -xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch
-auto-ilp32

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.
NTT Business W 907G

SPECfp_rate2006 = 24.0

SPECfp_rate_base2006 = 23.3

CPU2006 license: 9013

Test sponsor: NTT System S. A.

Tested by: NTT System S. A.

Test date: Jul-2009

Hardware Availability: Jul-2009

Software Availability: Nov-2008

Peak Optimization Flags (Continued)

482.sphinx3: -xSSSE3 -ipo -O3 -no-prec-div -static -unroll2

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -fno-alias -auto-ilp32

447.dealIII: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll2 -ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll2 -Ob0 -ansi-alias
-scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -opt-malloc-options=3 -opt-prefetch

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll2 -Ob0 -opt-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -opt-prefetch -auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll2 -opt-prefetch -parallel
-auto-ilp32

454.calculix: -xSSSE3 -ipo -O3 -no-prec-div -static -auto-ilp32

481.wrf: basepeak = yes



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.
NTT Business W 907G

SPECfp_rate2006 = 24.0

SPECfp_rate_base2006 = 23.3

CPU2006 license: 9013

Test sponsor: NTT System S. A.

Tested by: NTT System S. A.

Test date: Jul-2009

Hardware Availability: Jul-2009

Software Availability: 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-revA.20090827.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-revA.20090827.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 02:13:31 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 27 August 2009.