



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX150 S6, Intel Pentium E5200, 2.50 GHz

SPECfp®_rate2006 = 26.8

SPECfp_rate_base2006 = 26.0

CPU2006 license: 19

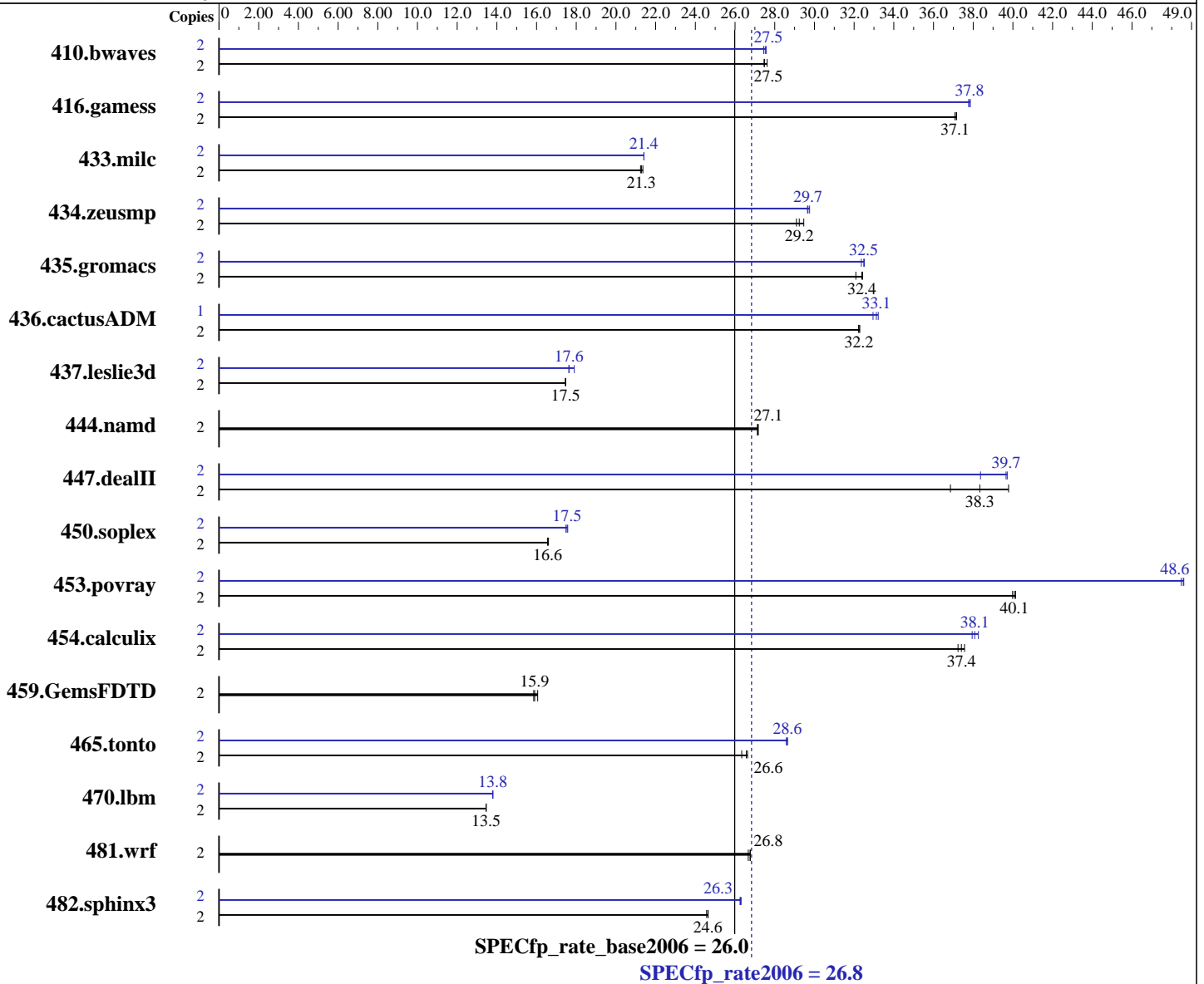
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Feb-2009

Hardware Availability: Apr-2009

Software Availability: Nov-2008



Hardware

CPU Name: Intel Pentium E5200
 CPU Characteristics: 800 MHz system bus
 CPU MHz: 2500
 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: 2 MB I+D on chip per chip

Continued on next page

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) 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: ext3
 System State: Multi-User Run Level 3
 Base Pointers: 64-bit

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX150 S6, Intel Pentium E5200, 2.50 GHz

SPECfp_rate2006 = 26.8

SPECfp_rate_base2006 = 26.0

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Feb-2009

Hardware Availability: Apr-2009

Software Availability: Nov-2008

L3 Cache: None
Other Cache: None
Memory: 8 GB (4x2 GB PC2-6400E, 2 rank, CL6-6-6, ECC)
Disk Subsystem: 1 x SATA, 250 GB, 7200 rpm
Other Hardware: None

Peak Pointers: 32/64-bit
Other Software: 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	2	984	27.6	<u>989</u>	<u>27.5</u>	990	27.5	2	990	27.4	986	27.6	<u>988</u>	<u>27.5</u>
416.gamess	2	<u>1056</u>	<u>37.1</u>	1054	37.2	1056	37.1	2	<u>1036</u>	<u>37.8</u>	1037	37.8	1034	37.9
433.milc	2	<u>863</u>	<u>21.3</u>	864	21.2	860	21.4	2	858	21.4	<u>857</u>	<u>21.4</u>	857	21.4
434.zeusmp	2	618	29.5	626	29.1	<u>623</u>	<u>29.2</u>	2	<u>613</u>	<u>29.7</u>	612	29.8	614	29.7
435.gromacs	2	<u>441</u>	<u>32.4</u>	445	32.1	440	32.4	2	441	32.4	439	32.5	<u>440</u>	<u>32.5</u>
436.cactusADM	2	740	32.3	<u>741</u>	<u>32.2</u>	742	32.2	1	<u>361</u>	<u>33.1</u>	363	33.0	360	33.2
437.leslie3d	2	<u>1077</u>	<u>17.5</u>	1077	17.5	1076	17.5	2	1067	17.6	1050	17.9	<u>1066</u>	<u>17.6</u>
444.namd	2	591	27.1	590	27.2	<u>591</u>	<u>27.1</u>	2	591	27.1	590	27.2	<u>591</u>	<u>27.1</u>
447.dealII	2	575	39.8	<u>597</u>	<u>38.3</u>	621	36.9	2	596	38.4	576	39.7	<u>577</u>	<u>39.7</u>
450.soplex	2	1007	16.6	<u>1007</u>	<u>16.6</u>	1005	16.6	2	949	17.6	954	17.5	<u>951</u>	<u>17.5</u>
453.povray	2	266	40.0	<u>265</u>	<u>40.1</u>	265	40.1	2	<u>219</u>	<u>48.6</u>	219	48.5	219	48.6
454.calculix	2	439	37.6	443	37.2	<u>441</u>	<u>37.4</u>	2	431	38.3	435	37.9	<u>433</u>	<u>38.1</u>
459.GemsFDTD	2	1322	16.1	1338	15.9	<u>1334</u>	<u>15.9</u>	2	1322	16.1	1338	15.9	<u>1334</u>	<u>15.9</u>
465.tonto	2	<u>741</u>	<u>26.6</u>	739	26.6	747	26.3	2	<u>687</u>	<u>28.6</u>	689	28.6	687	28.6
470.lbm	2	2043	13.5	<u>2041</u>	<u>13.5</u>	2041	13.5	2	1992	13.8	<u>1992</u>	<u>13.8</u>	1992	13.8
481.wrf	2	<u>835</u>	<u>26.8</u>	838	26.7	835	26.8	2	<u>835</u>	<u>26.8</u>	838	26.7	835	26.8
482.sphinx3	2	1587	24.6	<u>1582</u>	<u>24.6</u>	1582	24.6	2	1485	26.3	<u>1484</u>	<u>26.3</u>	1482	26.3

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.
taskset has been used to bind processes to cores except
for 436.cactusADM peak

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 64M



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX150 S6, Intel Pentium E5200, 2.50 GHz

SPECfp_rate2006 = 26.8

SPECfp_rate_base2006 = 26.0

CPU2006 license: 19
Test sponsor: Fujitsu
Tested by: Fujitsu

Test date: Feb-2009
Hardware Availability: Apr-2009
Software Availability: Nov-2008

General Notes

For information about Fujitsu please visit: <http://www.fujitsu.com>

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX150 S6, Intel Pentium E5200, 2.50 GHz

SPECfp_rate2006 = 26.8

SPECfp_rate_base2006 = 26.0

CPU2006 license: 19
Test sponsor: Fujitsu
Tested by: Fujitsu

Test date: Feb-2009
Hardware Availability: Apr-2009
Software Availability: Nov-2008

Base Optimization Flags (Continued)

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

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

Fujitsu

PRIMERGY TX150 S6, Intel Pentium E5200, 2.50 GHz

SPECfp_rate2006 = 26.8

SPECfp_rate_base2006 = 26.0

CPU2006 license: 19
Test sponsor: Fujitsu
Tested by: Fujitsu

Test date: Feb-2009
Hardware Availability: Apr-2009
Software Availability: Nov-2008

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

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

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -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: basepeak = yes

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY TX150 S6, Intel Pentium E5200, 2.50 GHz

SPECfp_rate2006 = 26.8

SPECfp_rate_base2006 = 26.0

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Feb-2009

Hardware Availability: Apr-2009

Software Availability: Nov-2008

Peak Optimization Flags (Continued)

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

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.05.html>

<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.05.xml>

<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.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 00:47:56 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 23 April 2009.