SPEC® CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S6, Intel Core i3-550, 3.20 GHz

$SPECfp^®\_rate2006 = 53.2$

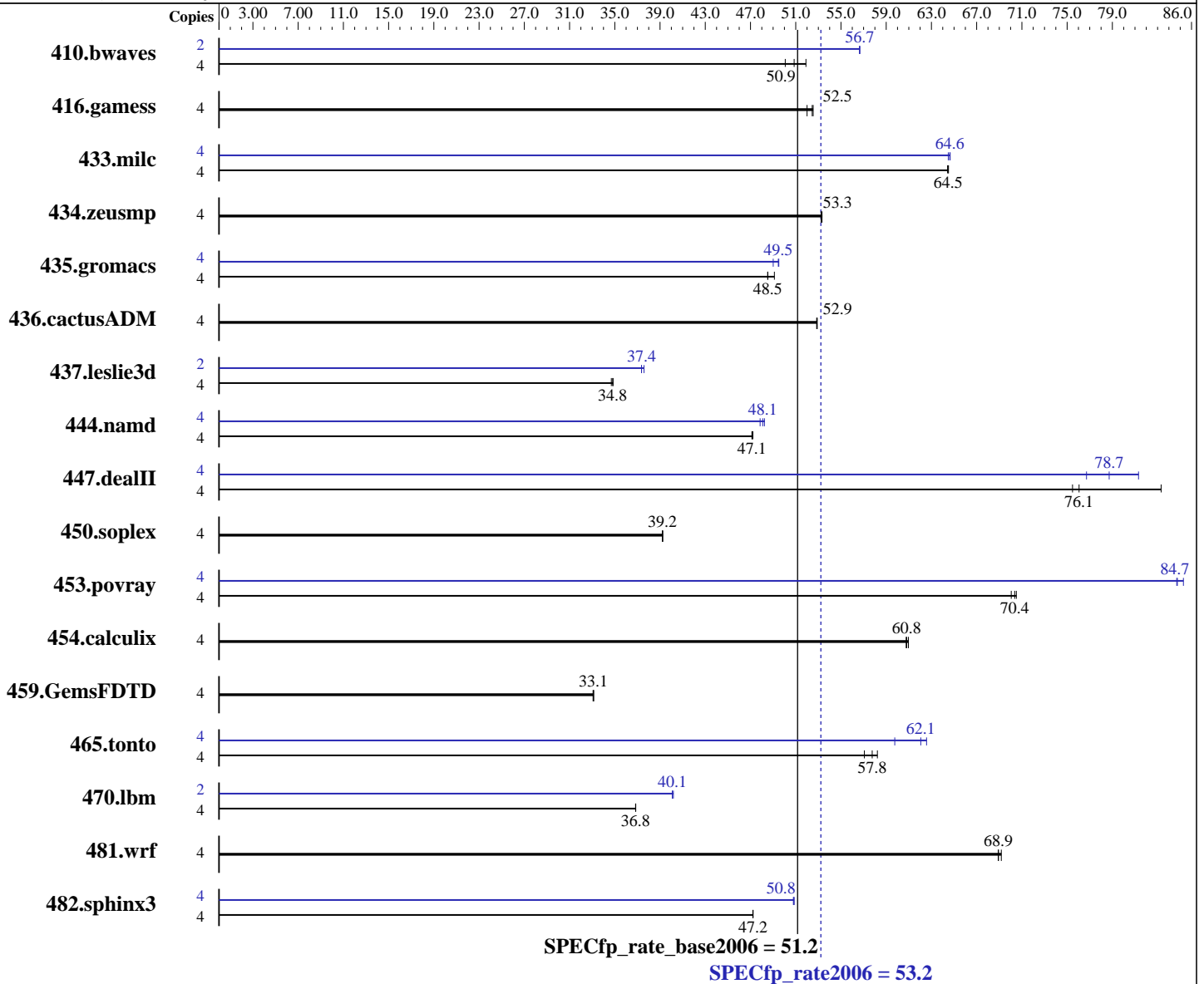$SPECfp\_rate\_base2006 = 51.2$

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

Test date: Sep-2010
Hardware Availability: Aug-2010
Software Availability: Jan-2010

SPECfp_rate_base2006 = 51.2

SPECfp_rate2006 = 53.2

Hardware

CPU Name:	Intel Core i3-550
CPU Characteristics:	
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip, 2 threads/core
CPU(s) orderable:	1 chip
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) with SP1, Kernel 2.6.32.12-0.7-default
Compiler:	Intel C++ and Fortran Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: l_cproc_p_11.1.064, l_cprof_p_11.1.064
Auto Parallel:	No
File System:	ext3
System State:	Run Level 3 (multi user)

Continued on next page

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S6, Intel Core i3-550, 3.20 GHz

$SPECfp\_rate2006 =$ 53.2

$SPECfp\_rate\_base2006 =$ 51.2

CPU2006 license: 19	**Test date:** Sep-2010
Test sponsor: Fujitsu	**Hardware Availability:** Aug-2010
Tested by: Fujitsu	**Software Availability:** Jan-2010

L3 Cache:	4 MB I+D on chip per chip	Base Pointers:	64-bit
Other Cache:	None	Peak Pointers:	32/64-bit
Memory:	16 GB (4x4 GB PC3-10600E, 2 rank, CL9-9-9, ECC)	Other Software:	None
Disk Subsystem:	1 x SSD SATA, 64 GB		
Other Hardware:	None		

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1086	50.1	**1069**	**50.9**	1047	51.9	2	480	56.6	480	56.7	**480**	**56.7**
416.gamess	4	1491	52.5	**1493**	**52.5**	1506	52.0	4	1491	52.5	**1493**	**52.5**	1506	52.0
433.milc	4	**570**	**64.5**	569	64.5	570	64.4	4	568	64.7	**568**	**64.6**	569	64.5
434.zeusmp	4	684	53.2	**683**	**53.3**	683	53.3	4	684	53.2	**683**	**53.3**	683	53.3
435.gromacs	4	**588**	**48.5**	589	48.5	582	49.1	4	577	49.5	583	49.0	**577**	**49.5**
436.cactusADM	4	904	52.9	**904**	**52.9**	904	52.9	4	904	52.9	**904**	**52.9**	904	52.9
437.leslie3d	4	**1080**	**34.8**	1084	34.7	1079	34.8	2	**503**	**37.4**	500	37.6	503	37.4
444.namd	4	**681**	**47.1**	681	47.1	679	47.2	4	**667**	**48.1**	670	47.9	665	48.2
447.dealII	4	549	83.3	**602**	**76.1**	606	75.5	4	596	76.7	**581**	**78.7**	563	81.3
450.soplex	4	850	39.2	**851**	**39.2**	851	39.2	4	850	39.2	**851**	**39.2**	851	39.2
453.povray	4	304	70.1	302	70.5	**302**	**70.4**	4	251	84.7	**251**	**84.7**	250	85.3
454.calculix	4	541	61.0	**543**	**60.8**	543	60.8	4	541	61.0	**543**	**60.8**	543	60.8
459.GemsFDTD	4	1283	33.1	1281	33.1	**1282**	**33.1**	4	1283	33.1	1281	33.1	**1282**	**33.1**
465.tonto	4	**681**	**57.8**	676	58.2	690	57.1	4	**634**	**62.1**	659	59.8	629	62.6
470.lbm	4	1491	36.9	**1492**	**36.8**	1492	36.8	2	684	40.2	**685**	**40.1**	686	40.1
481.wrf	4	**648**	**68.9**	648	68.9	646	69.2	4	**648**	**68.9**	648	68.9	646	69.2
482.sphinx3	4	1651	47.2	**1651**	**47.2**	1651	47.2	4	**1534**	**50.8**	1533	50.9	1535	50.8

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.
     numactl was used to bind copies to the cores

Operating System Notes

     'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

General Notes

     For information about Fujitsu please visit: http://www.fujitsu.com
     Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S6, Intel Core i3-550, 3.20 GHz

$SPECfp\_rate2006 =$ 53.2

$SPECfp\_rate\_base2006 =$ 51.2

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

Test date: Sep-2010
Hardware Availability: Aug-2010
Software Availability: Jan-2010

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
```

C++ benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

Fortran benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

Benchmarks using both Fortran and C:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static
```

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S6, Intel Core i3-550, 3.20 GHz

$SPECfp_rate2006 = $ 53.2

$SPECfp_rate_base2006 = $ 51.2

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

Test date: Sep-2010
Hardware Availability: Aug-2010
Software Availability: Jan-2010

Peak Compiler Invocation

C benchmarks (except as noted below):
```
icc   -m64
```

    482.sphinx3: `icc -m32`

C++ benchmarks:
```
icpc   -m64
```

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`
    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`

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)`
        `-fno-alias -opt-prefetch`

    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)`
        `-opt-malloc-options=3 -ansi-alias -auto-ilp32`

Fujitsu

PRIMERGY RX100 S6, Intel Core i3-550, 3.20 GHz

$SPECfp_rate2006 = $ 53.2

$SPECfp_rate_base2006 = $ 51.2

CPU2006 license: 19	**Test date:** Sep-2010
Test sponsor: Fujitsu	**Hardware Availability:** Aug-2010
Tested by: Fujitsu	**Software Availability:** Jan-2010

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-`

450.soplex: `basepeak = yes`

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`

416.gamess: `basepeak = yes`

434.zeusmp: `basepeak = yes`

437.leslie3d: `-xSSE4.2 -ipo -O3 -no-prec-div -static`

459.GemsFDTD: `basepeak = yes`

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)`
`-unroll4 -auto -inline-calloc -opt-malloc-options=3`

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: `basepeak = yes`

454.calculix: `basepeak = yes`

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-ic11.1-linux64-revE.20100708.html

SPEC CFP2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX100 S6, Intel Core i3-550, 3.20 GHz

$SPECfp\_rate2006 = \quad 53.2$

$SPECfp\_rate\_base2006 = \quad 51.2$

CPU2006 license: 19			**Test date:**	Sep-2010
Test sponsor:	Fujitsu		**Hardware Availability:**	Aug-2010
Tested by:	Fujitsu		**Software Availability:**	Jan-2010

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100708.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 14:34:14 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 12 October 2010.