SPEC® CFP2006 Result
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Fujitsu

PRIMERGY RX100 S6, Intel Core i3-540, 3.06 GHz

$SPECfp^®\_rate2006 =$ 51.7

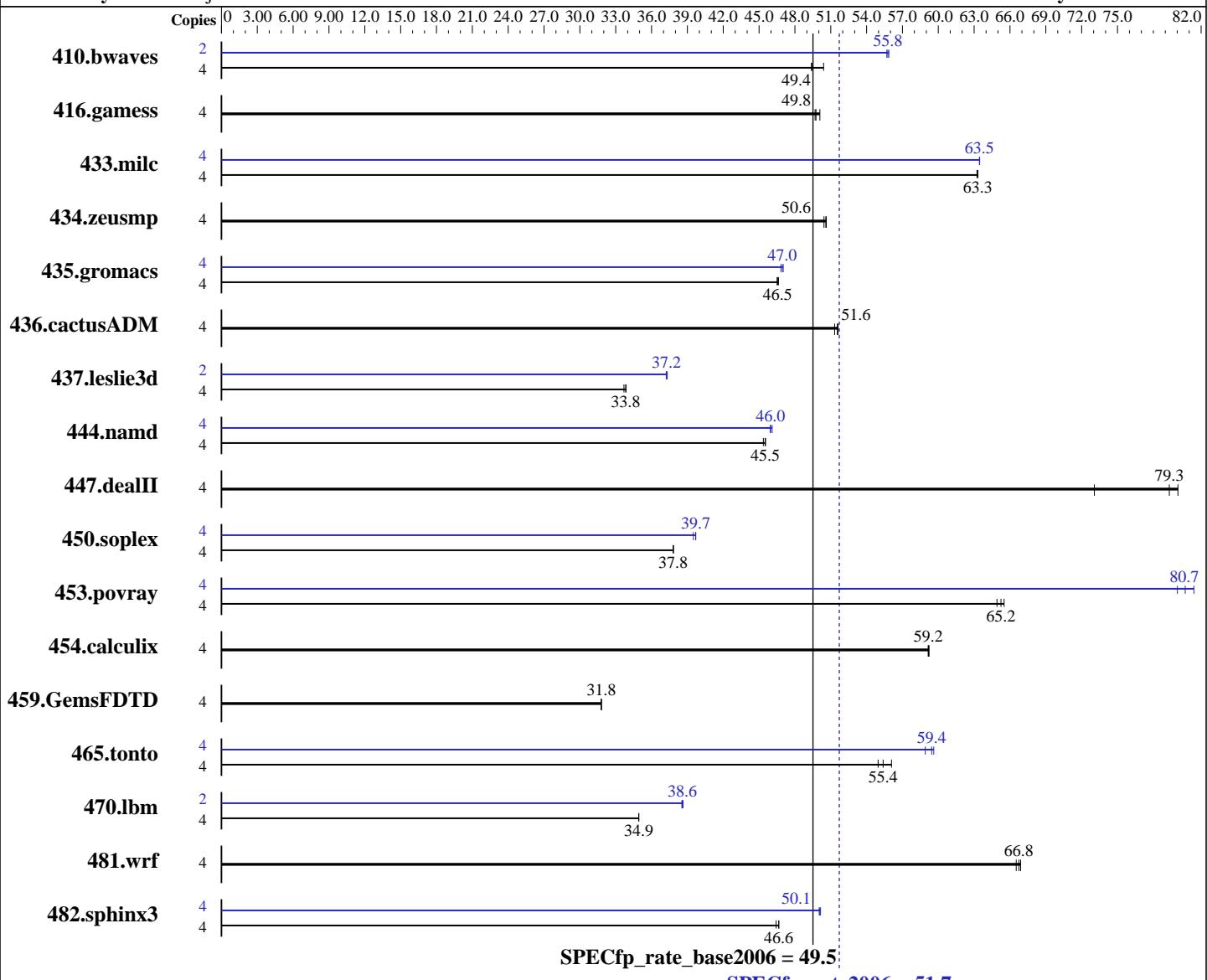$SPECfp\_rate\_base2006 =$ 49.5

CPU2006 license: 19		**Test date:**	Dec-2009
Test sponsor:	Fujitsu	**Hardware Availability:**	Jan-2010
Tested by:	Fujitsu	**Software Availability:**	Nov-2009

Benchmark	Copies	Result
410.bwaves	2	55.8
	4	49.4
416.gamess	4	49.8
433.milc	4	63.5
	4	63.3
434.zeusmp	4	50.6
435.gromacs	4	47.0
	4	46.5
436.cactusADM	4	51.6
437.leslie3d	2	37.2
	4	33.8
444.namd	4	46.0
	4	45.5
447.dealII	4	79.3
450.soplex	4	39.7
	4	37.8
453.povray	4	80.7
	4	65.2
454.calculix	4	59.2
459.GemsFDTD	4	31.8
465.tonto	4	59.4
	4	55.4
470.lbm	2	38.6
	4	34.9
481.wrf	4	66.8
482.sphinx3	4	50.1
	4	46.6

SPECfp_rate_base2006 = 49.5

SPECfp_rate2006 = 51.7

Hardware

CPU Name:	Intel Core i3-540
CPU Characteristics:	
CPU MHz:	3067
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), Kernel 2.6.27.19-5-smp
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:	No
File System:	ext3
System State:	Multi-User Run Level 3

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L3 Cache:	4 MB I+D on chip per chip	Base Pointers:	64-bit
Other Cache:	None	Peak Pointers:	32/64-bit
Memory:	8 GB (2x4 GB PC3-10600E, 2 rank, CL9-9-9, ECC)	Other Software:	Binutils 2.18.50.0.7.20080502
Disk Subsystem:	1 x SATA, 250 GB, 7200 RPM		
Other Hardware:	None		

Results Table

Benchmark	**Base** Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	**Peak** Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	**1100**	**49.4**	1101	49.4	1079	50.4	2	**487**	**55.8**	487	55.9	488	55.7
416.gamess	4	1576	49.7	1564	50.1	**1574**	**49.8**	4	1576	49.7	1564	50.1	**1574**	**49.8**
433.milc	4	**580**	**63.3**	580	63.3	581	63.2	4	**579**	**63.5**	579	63.5	579	63.4
434.zeusmp	4	722	50.4	719	50.6	**720**	**50.6**	4	722	50.4	719	50.6	**720**	**50.6**
435.gromacs	4	**614**	**46.5**	614	46.5	613	46.6	4	**608**	**47.0**	610	46.8	607	47.0
436.cactusADM	4	931	51.3	**927**	**51.6**	926	51.6	4	931	51.3	**927**	**51.6**	926	51.6
437.leslie3d	4	1110	33.9	1116	33.7	**1111**	**33.8**	2	**505**	**37.2**	505	37.2	504	37.3
444.namd	4	704	45.5	707	45.4	**705**	**45.5**	4	696	46.1	698	45.9	**698**	**46.0**
447.dealII	4	572	80.1	626	73.1	**577**	**79.3**	4	572	80.1	626	73.1	**577**	**79.3**
450.soplex	4	**882**	**37.8**	882	37.8	882	37.8	4	845	39.5	**840**	**39.7**	840	39.7
453.povray	4	**326**	**65.2**	328	64.9	325	65.5	4	**264**	**80.7**	261	81.4	266	80.0
454.calculix	4	**558**	**59.2**	557	59.2	558	59.2	4	**558**	**59.2**	557	59.2	558	59.2
459.GemsFDTD	4	1335	31.8	**1335**	**31.8**	1335	31.8	4	1335	31.8	**1335**	**31.8**	1335	31.8
465.tonto	4	**711**	**55.4**	702	56.1	716	55.0	4	668	58.9	**662**	**59.4**	660	59.6
470.lbm	4	1574	34.9	**1574**	**34.9**	1573	34.9	2	711	38.6	**712**	**38.6**	713	38.5
481.wrf	4	672	66.5	**669**	**66.8**	668	66.9	4	672	66.5	**669**	**66.8**	668	66.9
482.sphinx3	4	**1671**	**46.6**	1671	46.7	1679	46.4	4	1558	50.0	1555	50.1	**1557**	**50.1**

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

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$SPECfp\_rate\_base2006 =$　49.5

CPU2006 license: 19	**Test date:** Dec-2009
Test sponsor: Fujitsu	**Hardware Availability:** Jan-2010
Tested by: Fujitsu	**Software Availability:** Nov-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
```

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
```

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

Test date: Dec-2009
Hardware Availability: Jan-2010
Software Availability: Nov-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)
              -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
```

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Software Availability: Nov-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: basepeak = yes

    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`

    416.gamess: basepeak = yes

    434.zeusmp: basepeak = yes

    437.leslie3d: `-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 -opt-prefetch`

  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

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$SPECfp\_rate2006 =$ 51.7

$SPECfp\_rate\_base2006 =$ 49.5

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-revF.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-revF.20100202.xml

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 05:49:50 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 2 February 2010.