SPEC® CFP2006 Result
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Fujitsu

PRIMERGY RX100 S7, Intel Core i3-2120, 3.30 GHz

$SPECfp®\_rate2006 =$ 77.1

$SPECfp\_rate\_base2006 =$ 75.6
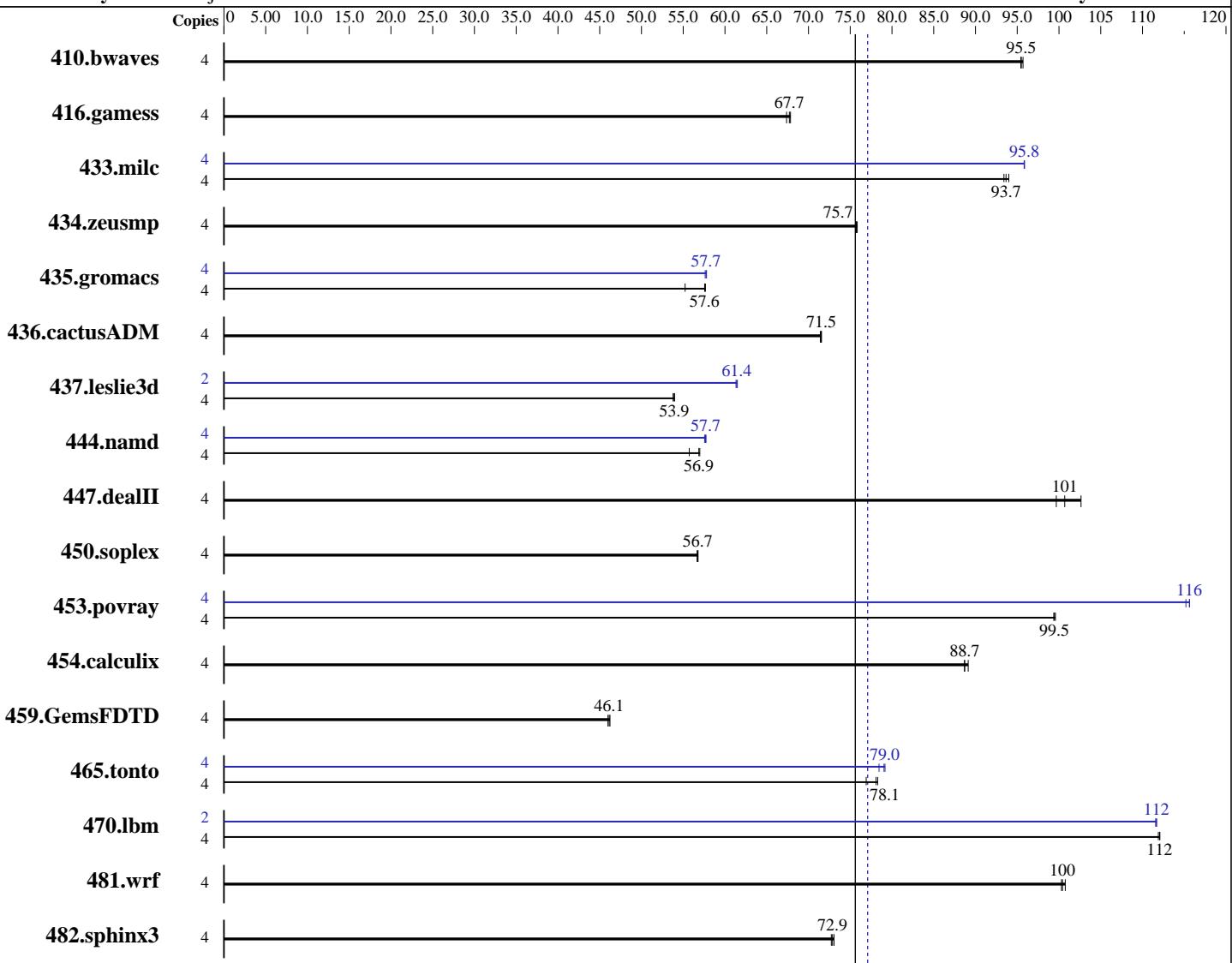
CPU2006 license: 19	**Test date:** Jun-2011
Test sponsor: Fujitsu	**Hardware Availability:** Jun-2011
Tested by: Fujitsu	**Software Availability:** Jan-2011

Copies

Benchmark	Copies	Value
410.bwaves	4	95.5
416.gamess	4	67.7
433.milc	4	95.8
433.milc	4	93.7
434.zeusmp	4	75.7
435.gromacs	4	57.7
435.gromacs	4	57.6
436.cactusADM	4	71.5
437.leslie3d	2	61.4
437.leslie3d	4	53.9
444.namd	4	57.7
444.namd	4	56.9
447.dealII	4	101
450.soplex	4	56.7
453.povray	4	116
453.povray	4	99.5
454.calculix	4	88.7
459.GemsFDTD	4	46.1
465.tonto	4	79.0
465.tonto	4	78.1
470.lbm	2	112
470.lbm	4	112
481.wrf	4	100
482.sphinx3	4	72.9

SPECfp_rate_base2006 = 75.6

SPECfp_rate2006 = 77.1

Hardware

CPU Name:	Intel Core i3-2120
CPU Characteristics:	
CPU MHz:	3300
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) SP1, Kernel 2.6.32.12-0.7-default
Compiler:	Intel C++ and Fortran Intel 64 Compiler XE for applications running on Intel 64 Version 12.0.1.116 Build 20101116
Auto Parallel:	No
File System:	ext3
System State:	Run level 3 (multi-user)
Base Pointers:	64-bit

Continued on next page

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L3 Cache:	3 MB I+D on chip per chip	Peak Pointers:	32/64-bit
Other Cache:	None	Other Software:	None
Memory:	8 GB (2 x 4 GB 2Rx8 PC3-10600E-9, ECC)		
Disk Subsystem:	1 x SATA, 300 GB, 7200 RPM		
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	568	95.7	**569**	**95.5**	570	95.4	4	568	95.7	**569**	**95.5**	570	95.4
416.gamess	4	1154	67.8	**1157**	**67.7**	1162	67.4	4	1154	67.8	**1157**	**67.7**	1162	67.4
433.milc	4	391	94.0	393	93.4	**392**	**93.7**	4	**383**	**95.8**	383	95.8	383	95.9
434.zeusmp	4	480	75.8	**481**	**75.7**	481	75.7	4	480	75.8	**481**	**75.7**	481	75.7
435.gromacs	4	517	55.2	**496**	**57.6**	495	57.7	4	**495**	**57.7**	494	57.8	496	57.6
436.cactusADM	4	668	71.6	669	71.4	**668**	**71.5**	4	668	71.6	669	71.4	**668**	**71.5**
437.leslie3d	4	**697**	**53.9**	697	54.0	699	53.8	2	306	61.5	**306**	**61.4**	307	61.3
444.namd	4	563	57.0	**564**	**56.9**	576	55.7	4	**556**	**57.7**	556	57.7	557	57.6
447.dealII	4	446	103	459	99.7	**454**	**101**	4	446	103	459	99.7	**454**	**101**
450.soplex	4	588	56.8	589	56.7	**588**	**56.7**	4	588	56.8	589	56.7	**588**	**56.7**
453.povray	4	**214**	**99.5**	214	99.6	214	99.4	4	185	115	184	116	**184**	**116**
454.calculix	4	370	89.1	372	88.7	**372**	**88.7**	4	370	89.1	372	88.7	**372**	**88.7**
459.GemsFDTD	4	923	46.0	918	46.2	**920**	**46.1**	4	923	46.0	918	46.2	**920**	**46.1**
465.tonto	4	**504**	**78.1**	503	78.3	512	76.9	4	502	78.4	**498**	**79.0**	497	79.2
470.lbm	4	491	112	490	112	**490**	**112**	2	246	112	**246**	**112**	246	112
481.wrf	4	443	101	**445**	**100**	445	100	4	443	101	**445**	**100**	445	100
482.sphinx3	4	**1070**	**72.9**	1067	73.1	1072	72.7	4	**1070**	**72.9**	1067	73.1	1072	72.7

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
      Large pages were not enabled for this run
```

General Notes

```
     For information about Fujitsu please visit: http://www.fujitsu.com
     Binaries were compiled on RHEL5.5
```

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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:
    -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

C++ benchmarks:
    -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

Fortran benchmarks:
    -xAVX -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:
    -xAVX -ipo -O3 -no-prec-div -static -ansi-alias

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Peak Compiler Invocation

C benchmarks:
        icc   -m64

C++ benchmarks:
        icpc   -m64

Fortran benchmarks:
        ifort -m64

Benchmarks using both Fortran and C:
        icc   -m64 ifort -m64

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

        433.milc: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32

        470.lbm: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -opt-malloc-options=3
                -ansi-alias -opt-prefetch -auto-ilp32

    482.sphinx3: basepeak = yes

C++ benchmarks:

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

        447.dealII: basepeak = yes

        450.soplex: basepeak = yes

        453.povray: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -ansi-alias
                -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

Fortran benchmarks:

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Peak Optimization Flags (Continued)

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: -xAVX -ipo -O3 -no-prec-div
    -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

459.GemsFDTD: basepeak = yes

465.tonto: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
    -no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -auto
    -inline-calloc -opt-malloc-options=3
    -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

Benchmarks using both Fortran and C:

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

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

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-ic12.0-linux64-revB.20110316.html
http://www.spec.org/cpu2006/flags/Fujitsu-Platform.20110705.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.20110316.xml
http://www.spec.org/cpu2006/flags/Fujitsu-Platform.20110705.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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