SPEC® CFP2006 Result
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Fujitsu

PRIMERGY RX200 S6, Intel Xeon X5675, 3.07 GHz

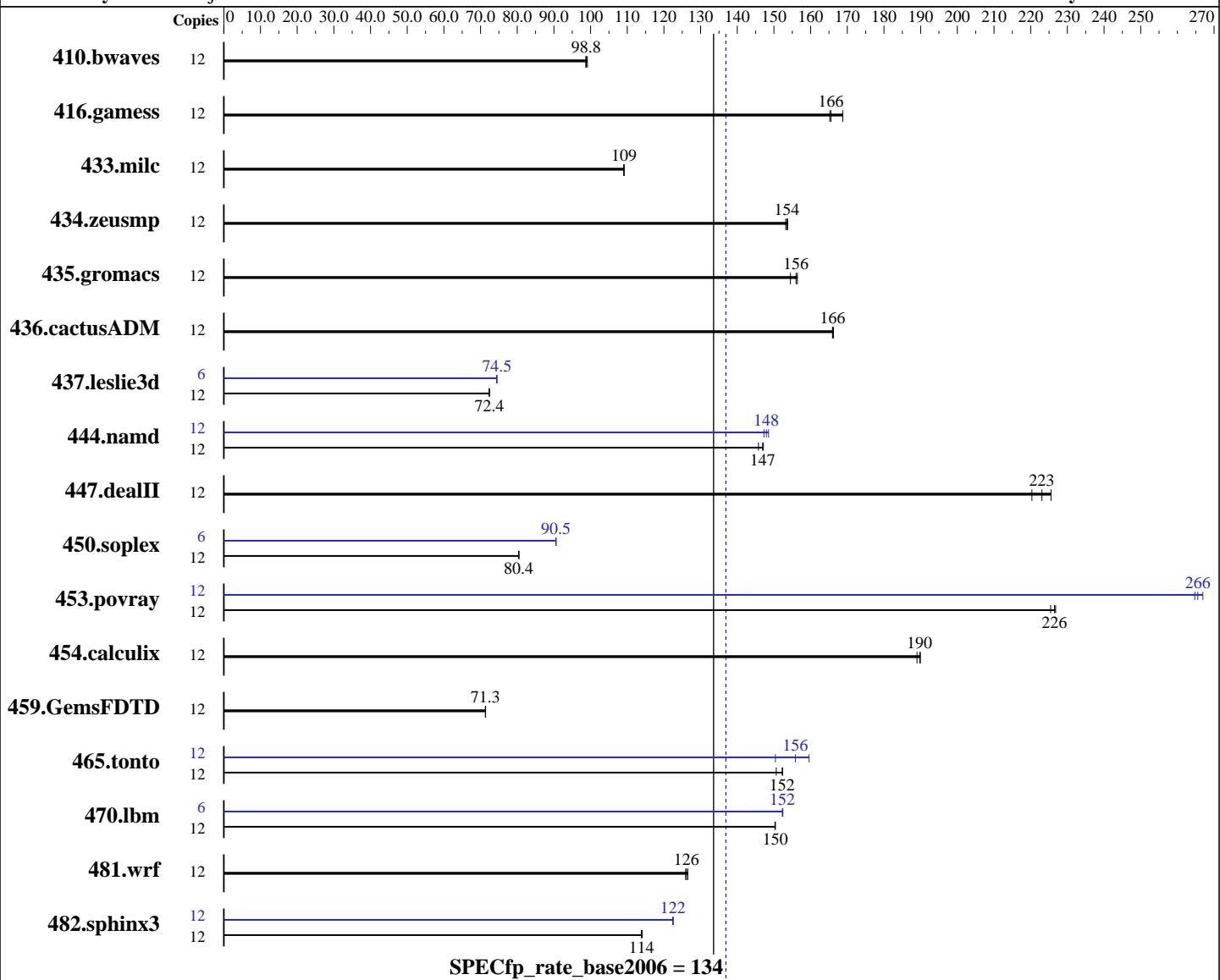$SPECfp®_rate2006 = $ 137

$SPECfp_rate_base2006 = $ 134

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

Copies

Benchmark	Copies	Result
410.bwaves	12	98.8
416.gamess	12	166
433.milc	12	109
434.zeusmp	12	154
435.gromacs	12	156
436.cactusADM	12	166
437.leslie3d	6	74.5
437.leslie3d	12	72.4
444.namd	12	148
444.namd	12	147
447.dealII	12	223
450.soplex	6	90.5
450.soplex	12	80.4
453.povray	12	266
453.povray	12	226
454.calculix	12	190
459.GemsFDTD	12	71.3
465.tonto	12	156
465.tonto	12	152
470.lbm	6	152
470.lbm	12	150
481.wrf	12	126
482.sphinx3	12	122
482.sphinx3	12	114

SPECfp_rate_base2006 = 134

SPECfp_rate2006 = 137

Hardware

CPU Name:	Intel Xeon X5675
CPU Characteristics:	Intel Turbo Boost Technology up to 3.47 GHz
CPU MHz:	3067
FPU:	Integrated
CPU(s) enabled:	6 cores, 1 chip, 6 cores/chip, 2 threads/core
CPU(s) orderable:	1,2 chips
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 Intel 64 Compiler XE for applications running on Intel 64 Version 12.0.0.082 Build 20101006
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:	12 MB I+D on chip per chip	Peak Pointers:	32/64-bit
Other Cache:	None	Other Software:	none
Memory:	24 GB (6 x 4 GB 2Rx4 PC3-10600R-9, ECC)		
Disk Subsystem:	1 x SAS, 300 GB, 10000 RPM		
Other Hardware:	--		

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	12	1645	99.1	**1651**	**98.8**	1652	98.7	12	1645	99.1	**1651**	**98.8**	1652	98.7
416.gamess	12	**1419**	**166**	1392	169	1422	165	12	**1419**	**166**	1392	169	1422	165
433.milc	12	1010	109	**1009**	**109**	1009	109	12	1010	109	**1009**	**109**	1009	109
434.zeusmp	12	713	153	710	154	**711**	**154**	12	713	153	710	154	**711**	**154**
435.gromacs	12	**549**	**156**	548	156	555	155	12	**549**	**156**	548	156	555	155
436.cactusADM	12	863	166	**864**	**166**	864	166	12	863	166	**864**	**166**	864	166
437.leslie3d	12	**1559**	**72.4**	1557	72.4	1559	72.3	6	757	74.5	**757**	**74.5**	758	74.4
444.namd	12	660	146	**655**	**147**	654	147	12	**651**	**148**	653	147	648	149
447.dealII	12	623	220	609	226	**615**	**223**	12	623	220	609	226	**615**	**223**
450.soplex	12	1244	80.5	1245	80.4	**1245**	**80.4**	6	553	90.5	**553**	**90.5**	552	90.6
453.povray	12	**282**	**226**	281	227	283	225	12	**240**	**266**	241	265	239	267
454.calculix	12	521	190	524	189	**522**	**190**	12	521	190	524	189	**522**	**190**
459.GemsFDTD	12	**1785**	**71.3**	1784	71.4	1785	71.3	12	**1785**	**71.3**	1784	71.4	1785	71.3
465.tonto	12	**776**	**152**	775	152	784	151	12	**758**	**156**	785	150	740	160
470.lbm	12	**1097**	**150**	1097	150	1097	150	6	541	152	**541**	**152**	541	152
481.wrf	12	**1062**	**126**	1060	127	1065	126	12	**1062**	**126**	1060	127	1065	126
482.sphinx3	12	2051	114	2055	114	**2053**	**114**	12	1911	122	**1909**	**122**	1909	123

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

Platform Notes

BIOS configuration:
Data Reuse Optimization = Disable

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General Notes

```
    For information about Fujitsu please visit: http://www.fujitsu.com
    Binaries were compiled on SLES 10 SP1 with Binutils 2.18.50.0.7.20080502
```

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 -ansi-alias
```

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

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Base Optimization Flags (Continued)

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

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

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`

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Tested by: Fujitsu

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Hardware Availability: Jul-2010
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Peak Optimization Flags

C benchmarks:

        433.milc: basepeak = yes

        470.lbm: -xSSE4.2(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: -xSSE4.2 -ipo -O3 -no-prec-div -unroll2

C++ benchmarks:

        444.namd: -xSSE4.2(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: -xSSE4.2(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

       453.povray: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -ansi-alias

Fortran benchmarks:

      410.bwaves: basepeak = yes

      416.gamess: basepeak = yes

      434.zeusmp: basepeak = yes

      437.leslie3d: -xSSE4.2 -ipo -O3 -no-prec-div
                -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

   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) -prof-use(pass 2) -unroll4 -auto
                -inline-calloc -opt-malloc-options=3

Benchmarks using both Fortran and C:

     435.gromacs: basepeak = yes

  436.cactusADM: basepeak = yes

     454.calculix: basepeak = yes

Continued on next page

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Peak Optimization Flags (Continued)

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-ic12.0-linux64-revA.20110222.00.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revA.20110222.00.xml`

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

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