SPEC® CFP2006 Result
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Fujitsu Siemens Computers

PRIMERGY RX200 S4, Intel Xeon processor X5260, 3.33 GHz

$SPECfp®\_rate2006 =$ 56.6

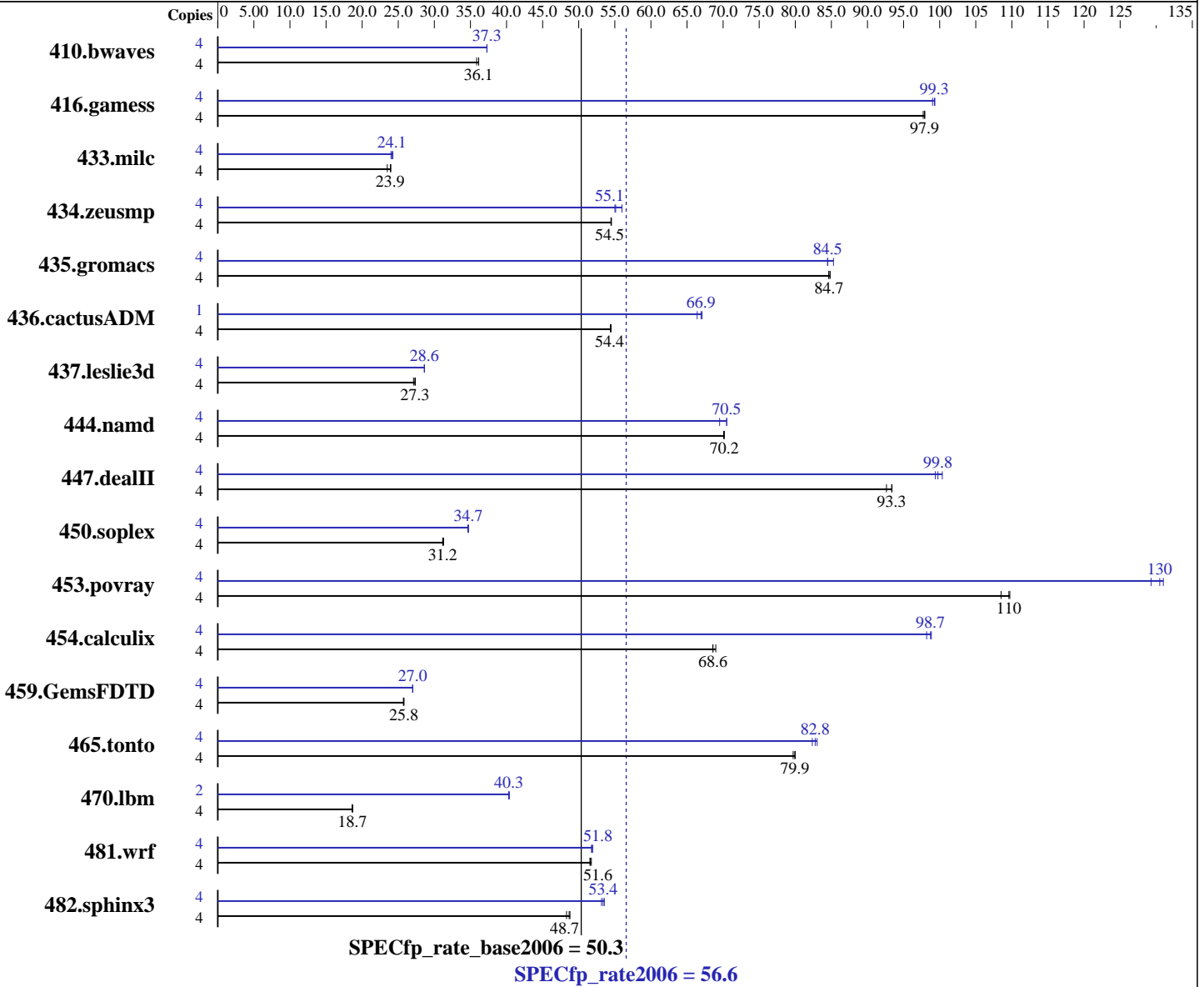SPECfp_rate_base2006 = 50.3

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007

Benchmark	Copies	Result
410.bwaves	4	37.3
	4	36.1
416.gamess	4	99.3
	4	97.9
433.milc	4	24.1
	4	23.9
434.zeusmp	4	55.1
	4	54.5
435.gromacs	4	84.5
	4	84.7
436.cactusADM	1	66.9
	4	54.4
437.leslie3d	4	28.6
	4	27.3
444.namd	4	70.5
	4	70.2
447.dealII	4	99.8
	4	93.3
450.soplex	4	34.7
	4	31.2
453.povray	4	130
	4	110
454.calculix	4	98.7
	4	68.6
459.GemsFDTD	4	27.0
	4	25.8
465.tonto	4	82.8
	4	79.9
470.lbm	2	40.3
	4	18.7
481.wrf	4	51.8
	4	51.6
482.sphinx3	4	53.4
	4	48.7

SPECfp_rate_base2006 = 50.3

SPECfp_rate2006 = 56.6

Hardware

CPU Name: Intel Xeon X5260
CPU Characteristics: 1333 MHz system bus
CPU MHz: 3333
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 6 MB I+D on chip per chip

Continued on next page

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 Version 10.1 - Build 20070725
Auto Parallel: Yes
File System: ext2
System State: Multiuser, Runlevel 3
Base Pointers: 64-bit

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L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8x2 GB PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
Disk Subsystem:	Seagate ST973451SS (SAS, 73GB, 15000rpm)
Other Hardware:	None
Peak Pointers:	32/64-bit
Other Software:	None

Results Table

	Base							Peak					
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1504	36.1	**1504**	**36.1**	1516	35.9	4	1459	37.3	**1458**	**37.3**	1457	37.3
416.gamess	4	802	97.7	**800**	**97.9**	800	97.9	4	791	99.0	788	99.3	**789**	**99.3**
433.milc	4	1564	23.5	1531	24.0	**1536**	**23.9**	4	1530	24.0	**1523**	**24.1**	1514	24.3
434.zeusmp	4	668	54.5	**668**	**54.5**	668	54.5	4	662	55.0	650	56.0	**660**	**55.1**
435.gromacs	4	337	84.6	337	84.8	**337**	**84.7**	4	338	84.5	**338**	**84.5**	335	85.3
436.cactusADM	4	879	54.4	878	54.5	**878**	**54.4**	1	178	67.1	**179**	**66.9**	180	66.4
437.leslie3d	4	1387	27.1	**1377**	**27.3**	1374	27.4	4	1314	28.6	1314	28.6	**1314**	**28.6**
444.namd	4	**457**	**70.2**	457	70.2	458	70.1	4	461	69.5	455	70.5	**455**	**70.5**
447.dealII	4	494	92.6	490	93.4	**490**	**93.3**	4	456	100	**459**	**99.8**	460	99.4
450.soplex	4	1071	31.2	**1070**	**31.2**	1066	31.3	4	963	34.6	**961**	**34.7**	961	34.7
453.povray	4	194	110	**194**	**110**	196	109	4	162	131	165	129	**163**	**130**
454.calculix	4	**481**	**68.6**	478	69.0	481	68.6	4	334	98.8	336	98.2	**334**	**98.7**
459.GemsFDTD	4	1645	25.8	**1648**	**25.8**	1651	25.7	4	**1572**	**27.0**	1572	27.0	1570	27.0
465.tonto	4	492	80.0	**492**	**79.9**	494	79.7	4	**476**	**82.8**	474	83.0	478	82.4
470.lbm	4	2954	18.6	**2946**	**18.7**	2942	18.7	2	682	40.3	**681**	**40.3**	680	40.4
481.wrf	4	863	51.8	**866**	**51.6**	866	51.6	4	**863**	**51.8**	863	51.8	860	51.9
482.sphinx3	4	1598	48.8	**1602**	**48.7**	1614	48.3	4	1467	53.2	**1460**	**53.4**	1456	53.6

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

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

General Notes

This result has been produced with binaries provided and compiled by Intel.

All binaries were built with 64-bit Intel compiler except:
437.leslie3d, 450.soplex, 470.lbm and 482.sphinx3 in peak were built with
32-bit Intel compiler by changing the path for include and library files.

For information about Fujitsu Siemens Computers please see:
http://www.fujitsu-siemens.com

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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:
    -fast

C++ benchmarks:
    -fast

Fortran benchmarks:
    -fast

Benchmarks using both Fortran and C:
    -fast

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Tested by: Fujitsu Siemens Computers		**Software Availability:**	Nov-2007

Peak Compiler Invocation

C benchmarks (except as noted below):
```
/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icc
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include
```

    433.milc: `icc`

C++ benchmarks (except as noted below):
```
icpc
```

  450.soplex: `/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icpc`
```
            -L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
            -I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include
```

Fortran benchmarks (except as noted below):
```
ifort
```

  437.leslie3d: `/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/ifort`
```
            -L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
            -I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include
```

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
       481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

    433.milc: `-prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias`
           `-auto-ilp32`

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Peak Optimization Flags (Continued)

470.lbm: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -scalar-rep- -prefetch -opt-malloc-options=3`

482.sphinx3: `-fast -unroll2`

C++ benchmarks:

444.namd: `-prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias -auto-ilp32`

447.dealII: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -ansi-alias -scalar-rep-`

450.soplex: `-prof-gen(pass 1) -prof-use(pass 2) -fast -opt-malloc-options=3`

453.povray: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -ansi-alias`

Fortran benchmarks:

410.bwaves: `-fast -prefetch`

416.gamess: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0 -ansi-alias -scalar-rep-`

434.zeusmp: `-prof-gen(pass 1) -prof-use(pass 2) -fast`

437.leslie3d: `-prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch -opt-malloc-options=3`

459.GemsFDTD: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0 -prefetch`

465.tonto: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -auto`

Benchmarks using both Fortran and C:

435.gromacs: `-prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch -auto-ilp32`

436.cactusADM: `-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -prefetch -parallel -auto-ilp32`

454.calculix: `-fast -unroll-aggressive -auto-ilp32`

481.wrf: `-fast -auto-ilp32`

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The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.05.html

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

http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.05.xml

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

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