



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

PRIMERGY RX200 S3, Intel Xeon processor L5320,
1.86 GHz

SPECfp®_rate2006 = 45.6

SPECfp_rate_base2006 = 44.0

CPU2006 license: 22

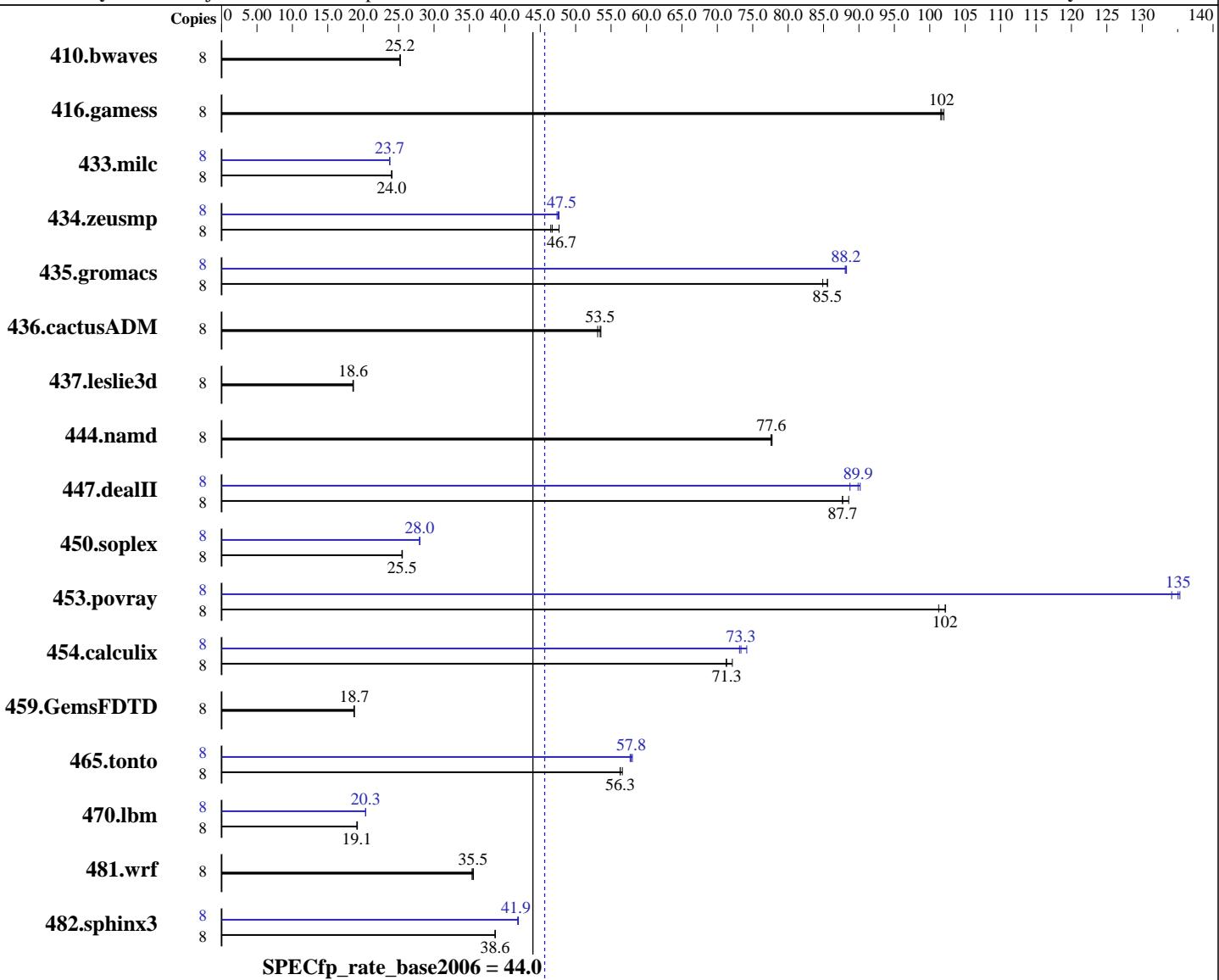
Test date: Mar-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Mar-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Jan-2007



Hardware

CPU Name: Intel Xeon L5320
 CPU Characteristics: L5320
 CPU MHz: 1867
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp on an x86_64
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 9.1 - built 20070109, Package ID: l_cc_p_9.1.046
 Intel Fortran Compiler for IA32/EM64T application, Version 9.1 - built 20070109, Package ID: l_fc_p_9.1.041
 Auto Parallel: No
 File System: ReiserFS

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L3 Cache:	None	System State:	Multiuser, Runlevel 3
Other Cache:	None	Base Pointers:	64-bit
Memory:	16 GB (8x2 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)	Peak Pointers:	32/64-bit
Disk Subsystem:	SAS (73GB 15400 rpm)	Other Software:	None
Other Hardware:	None		

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	4309	25.2	4312	25.2	4311	25.2	8	4309	25.2	4312	25.2	4311	25.2		
416.gamess	8	1536	102	1542	102	1540	102	8	1536	102	1542	102	1540	102		
433.milc	8	3055	24.0	3058	24.0	3057	24.0	8	3092	23.8	3093	23.7	3094	23.7		
434.zeusmp	8	1559	46.7	1566	46.5	1528	47.7	8	1537	47.4	1532	47.5	1528	47.7		
435.gromacs	8	673	84.9	668	85.6	668	85.5	8	647	88.2	649	88.1	648	88.2		
436.cactusADM	8	1785	53.6	1800	53.1	1788	53.5	8	1785	53.6	1800	53.1	1788	53.5		
437.leslie3d	8	4042	18.6	4056	18.5	4042	18.6	8	4042	18.6	4056	18.5	4042	18.6		
444.namd	8	827	77.6	825	77.7	827	77.6	8	827	77.6	825	77.7	827	77.6		
447.dealII	8	1044	87.7	1034	88.6	1044	87.7	8	1031	88.7	1018	89.9	1015	90.2		
450.soplex	8	2613	25.5	2616	25.5	2621	25.5	8	2384	28.0	2385	28.0	2386	28.0		
453.povray	8	417	102	416	102	420	101	8	315	135	317	134	315	135		
454.calculix	8	915	72.1	925	71.3	926	71.3	8	890	74.2	900	73.3	903	73.1		
459.GemsFDTD	8	4532	18.7	4532	18.7	4531	18.7	8	4532	18.7	4532	18.7	4531	18.7		
465.tonto	8	1398	56.3	1391	56.6	1399	56.3	8	1357	58.0	1361	57.8	1365	57.7		
470.lbm	8	5731	19.2	5749	19.1	5750	19.1	8	5403	20.3	5403	20.3	5402	20.3		
481.wrf	8	2527	35.4	2518	35.5	2512	35.6	8	2527	35.4	2518	35.5	2512	35.6		
482.sphinx3	8	4038	38.6	4034	38.6	4036	38.6	8	3720	41.9	3720	41.9	3730	41.8		

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
'/usr/bin/taskset' used to bind processes to CPUs

General Notes

The system bus runs at 1067 MHz

All binaries were built with 64-bit Intel compiler except:
433.milc, 434.zeusmp, 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.

BIOS configuration:

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General Notes (Continued)

Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

For information about Fujitsu Siemens Computers in your country please see:
<http://www.fujitsu-siemens.com/countries>

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

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Base Optimization Flags (Continued)

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast

Peak Compiler Invocation

C benchmarks:

```
/opt/intel/cc/9.1.046/bin/icc -I/opt/intel/cc/9.1.046/include  
-L/opt/intel/cc/9.1.046/lib
```

C++ benchmarks (except as noted below):

icpc

```
450.soplex: /opt/intel/cc/9.1.046/bin/icpc  
-I/opt/intel/cc/9.1.046/include -L/opt/intel/cc/9.1.046/lib
```

Fortran benchmarks (except as noted below):

ifort

```
434.zeusmp: /opt/intel/fc/9.1.041/bin/ifort  
-I/opt/intel/fc/9.1.041/include -L/opt/intel/fc/9.1.041/lib
```

Benchmarks using both Fortran and C:

icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: -prof_gen(pass 1) -prof_use(pass 2) -fast

470.lbm: Same as 433.milc

482.sphinx3: -fast

C++ benchmarks:

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Peak Optimization Flags (Continued)

444.namd: basepeak = yes

447.dealII: -prof_gen(pass 1) -prof_use(pass 2) -fast

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: -fast

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:

435.gromacs: -prof_gen(pass 1) -prof_use(pass 2) -fast

436.cactusADM: basepeak = yes

454.calculix: Same as 435.gromacs

481.wrf: basepeak = yes

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.23.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.23.xml

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For other inquiries, please contact webmaster@spec.org.

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