



SPEC[®] CFP2006 Result

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Fujitsu Siemens Computers

PRIMERGY TX300 S3, Intel Xeon processor 5110,
1.60 GHz

SPECfp[®]_rate2006 = 30.0

SPECfp_rate_base2006 = 29.1

CPU2006 license: 22

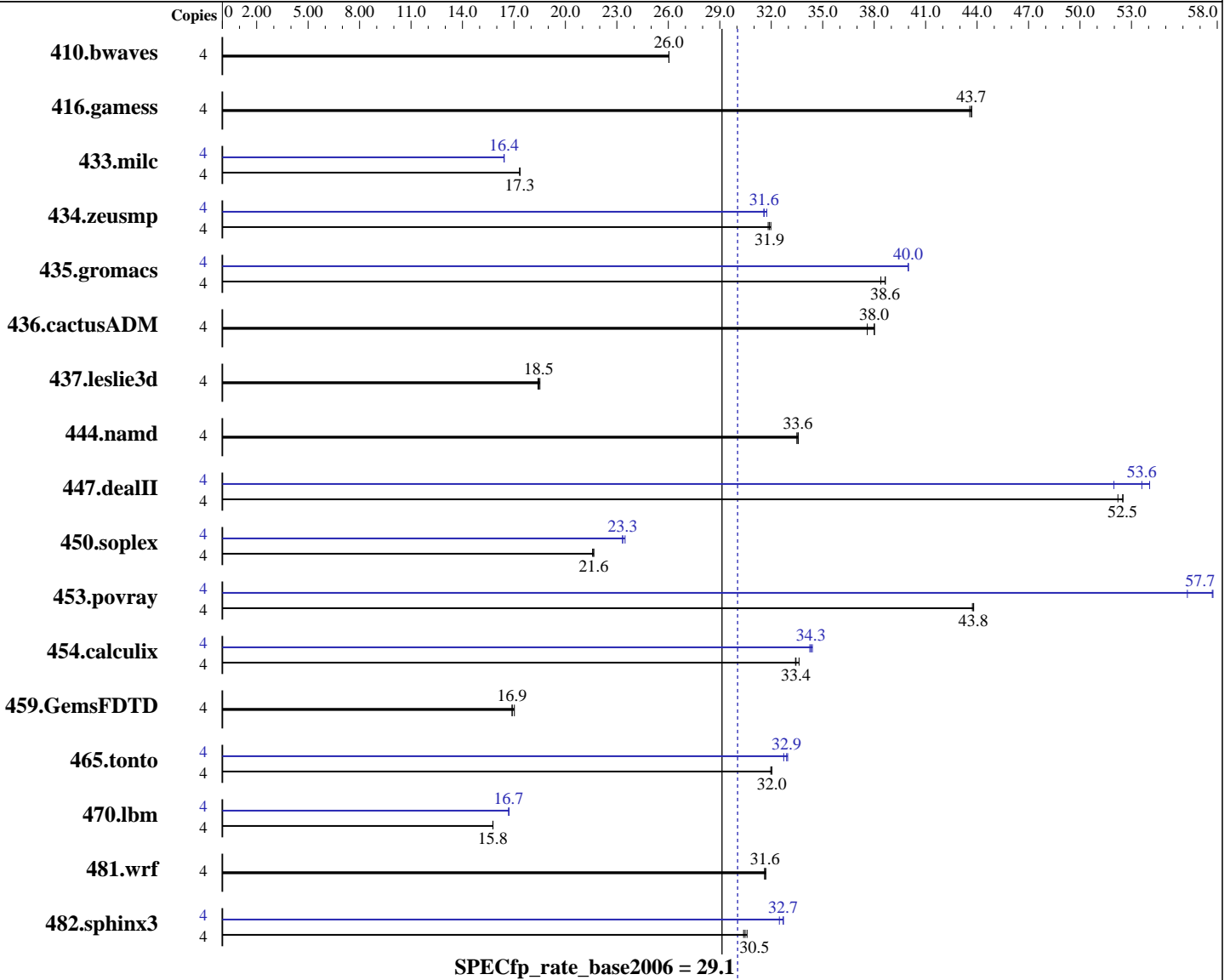
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: Jul-2006

Software Availability: Feb-2007



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1067 MHz system bus
 CPU MHz: 1600
 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: 4 MB I+D on chip per chip

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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 - Build 20070215, Package-ID: l_cc_p_9.1.047
 Intel Fortran Compiler for IA32/EM64T application, Version 9.1 - Build 20070215, Package ID: l_fc_p_9.1.043
 Auto Parallel: No
 File System: ext2

Continued on next page



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L3 Cache: None
Other Cache: None
Memory: 8 GB (8x1 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
Disk Subsystem: SAS (73GB 15400 rpm)
Other Hardware: None

System State: Multiuser, Runlevel 3
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	4	2088	26.0	2088	26.0	2088	26.0	4	2088	26.0	2088	26.0	2088	26.0		
416.gamess	4	1793	43.7	1794	43.7	1797	43.6	4	1793	43.7	1794	43.7	1797	43.6		
433.milc	4	2117	17.3	2117	17.3	2118	17.3	4	2236	16.4	2236	16.4	2235	16.4		
434.zeusmp	4	1144	31.8	1141	31.9	1138	32.0	4	1147	31.7	1152	31.6	1153	31.6		
435.gromacs	4	744	38.4	739	38.6	739	38.7	4	714	40.0	714	40.0	714	40.0		
436.cactusADM	4	1257	38.0	1258	38.0	1271	37.6	4	1257	38.0	1258	38.0	1271	37.6		
437.leslie3d	4	2043	18.4	2038	18.5	2031	18.5	4	2043	18.4	2038	18.5	2031	18.5		
444.namd	4	958	33.5	956	33.6	955	33.6	4	958	33.5	956	33.6	955	33.6		
447.dealII	4	872	52.5	871	52.5	876	52.2	4	846	54.1	880	52.0	854	53.6		
450.soplex	4	1541	21.7	1541	21.6	1546	21.6	4	1429	23.3	1421	23.5	1430	23.3		
453.povray	4	486	43.8	486	43.8	487	43.7	4	369	57.7	378	56.3	368	57.8		
454.calculix	4	982	33.6	987	33.4	988	33.4	4	964	34.2	961	34.3	959	34.4		
459.GemsFDTD	4	2493	17.0	2512	16.9	2511	16.9	4	2493	17.0	2512	16.9	2511	16.9		
465.tonto	4	1231	32.0	1229	32.0	1229	32.0	4	1196	32.9	1203	32.7	1194	33.0		
470.lbm	4	3485	15.8	3483	15.8	3485	15.8	4	3291	16.7	3292	16.7	3291	16.7		
481.wrf	4	1413	31.6	1410	31.7	1413	31.6	4	1413	31.6	1410	31.7	1413	31.6		
482.sphinx3	4	2549	30.6	2565	30.4	2558	30.5	4	2401	32.5	2383	32.7	2384	32.7		

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.

This result was measured on the PRIMERGY RX300 S3. The PRIMERGY RX300 S3 and

Continued on next page



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General Notes (Continued)

the PRIMERGY TX300 S3 are electronically equivalent.

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

Continued on next page



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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/9.1.047/bin/icc -I/opt/intel/cc/9.1.047/include
-L/opt/intel/cc/9.1.047/lib

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/9.1.047/bin/icpc
-I/opt/intel/cc/9.1.047/include -L/opt/intel/cc/9.1.047/lib

Fortran benchmarks (except as noted below):

ifort

434.zeusmp: /opt/intel/fc/9.1.043/bin/ifort
-I/opt/intel/fc/9.1.043/include -L/opt/intel/fc/9.1.043/lib

Benchmarks using both Fortran and C:

icc ifort

Peak Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -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
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX



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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:

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.20090714.09.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.xml



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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:51:17 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 29 May 2007.