



# SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Fujitsu Siemens Computers

PRIMERGY TX300 S3, Intel Xeon processor X5355,  
2.66 GHz

SPECfp®\_rate2006 = 60.9

SPECfp\_rate\_base2006 = 58.6

CPU2006 license: 22

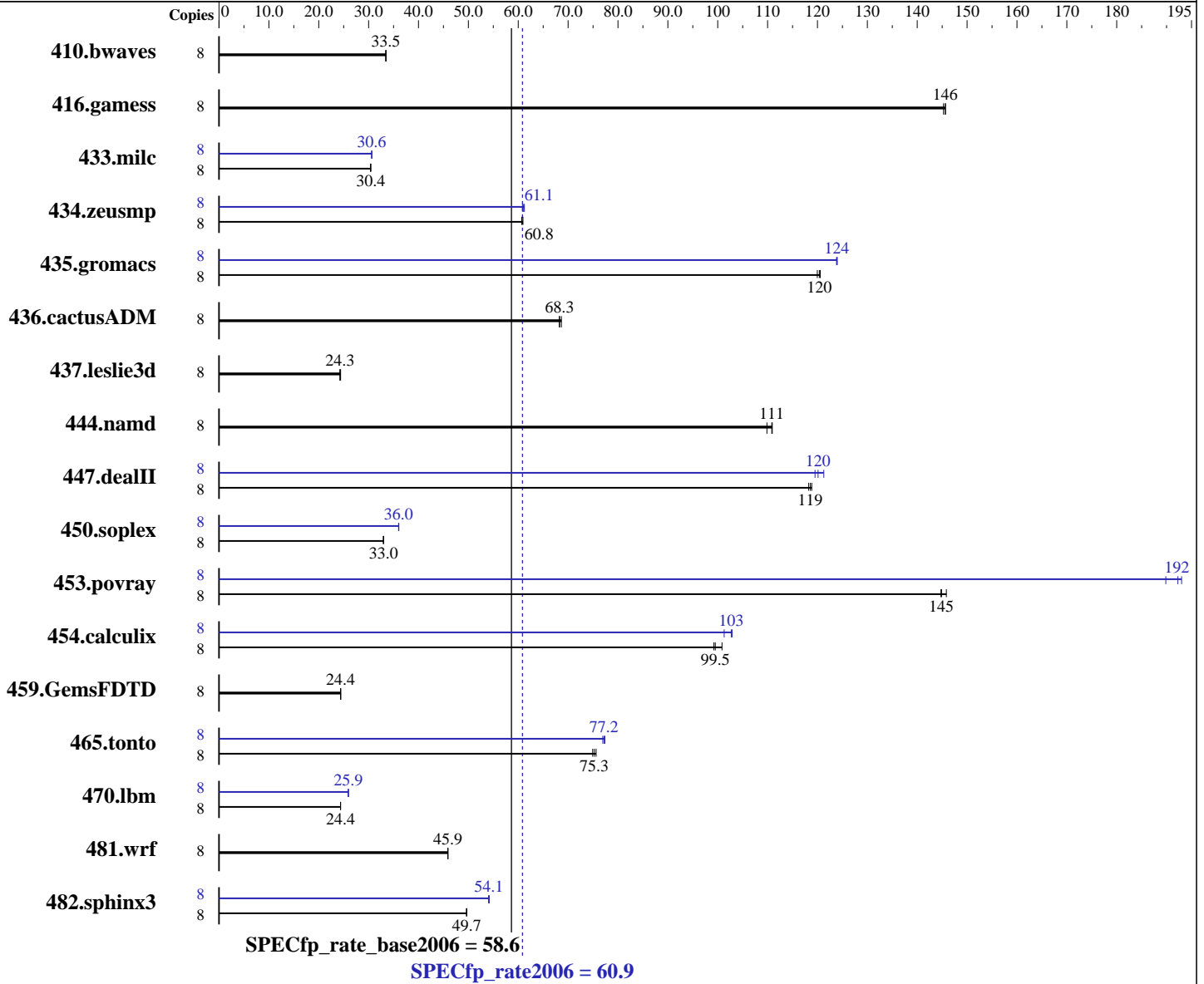
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Mar-2007

Hardware Availability: Jan-2007

Software Availability: Feb-2007



### Hardware

CPU Name: Intel Xeon X5355  
 CPU Characteristics: X5355  
 CPU MHz: 2667  
 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

Continued on next page

### 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



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Fujitsu Siemens Computers

PRIMERGY TX300 S3, Intel Xeon processor X5355,  
2.66 GHz

SPECfp\_rate2006 = **60.9**

SPECfp\_rate\_base2006 = **58.6**

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Mar-2007

Hardware Availability: Jan-2007

Software Availability: Feb-2007

L3 Cache: None  
Other Cache: None  
Memory: 16 GB (8x2 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	8	3248	33.5	3251	33.4	<b>3248</b>	<b>33.5</b>	8	3248	33.5	3251	33.4	<b>3248</b>	<b>33.5</b>		
416.gamess	8	1075	146	1078	145	<b>1076</b>	<b>146</b>	8	1075	146	1078	145	<b>1076</b>	<b>146</b>		
433.milc	8	<b>2414</b>	<b>30.4</b>	2419	30.4	2412	30.4	8	2399	30.6	<b>2398</b>	<b>30.6</b>	2397	30.6		
434.zeusmp	8	<b>1198</b>	<b>60.8</b>	1200	60.7	1194	60.9	8	1196	60.9	<b>1192</b>	<b>61.1</b>	1189	61.2		
435.gromacs	8	474	121	<b>475</b>	<b>120</b>	476	120	8	461	124	<b>461</b>	<b>124</b>	461	124		
436.cactusADM	8	1401	68.2	<b>1400</b>	<b>68.3</b>	1393	68.7	8	1401	68.2	<b>1400</b>	<b>68.3</b>	1393	68.7		
437.leslie3d	8	3084	24.4	3101	24.3	<b>3098</b>	<b>24.3</b>	8	3084	24.4	3101	24.3	<b>3098</b>	<b>24.3</b>		
444.namd	8	584	110	578	111	<b>579</b>	<b>111</b>	8	584	110	578	111	<b>579</b>	<b>111</b>		
447.dealII	8	774	118	770	119	<b>772</b>	<b>119</b>	8	<b>762</b>	<b>120</b>	766	120	755	121		
450.soplex	8	<b>2023</b>	<b>33.0</b>	2024	33.0	2022	33.0	8	1850	36.1	<b>1852</b>	<b>36.0</b>	1853	36.0		
453.povray	8	294	145	<b>294</b>	<b>145</b>	292	146	8	221	193	224	190	<b>221</b>	<b>192</b>		
454.calculix	8	<b>663</b>	<b>99.5</b>	654	101	665	99.2	8	641	103	652	101	<b>643</b>	<b>103</b>		
459.GemsFDTD	8	3481	24.4	<b>3479</b>	<b>24.4</b>	3479	24.4	8	3481	24.4	<b>3479</b>	<b>24.4</b>	3479	24.4		
465.tonto	8	1041	75.6	1051	74.9	<b>1046</b>	<b>75.3</b>	8	1017	77.4	<b>1020</b>	<b>77.2</b>	1023	76.9		
470.lbm	8	4511	24.4	<b>4509</b>	<b>24.4</b>	4509	24.4	8	4239	25.9	4238	25.9	<b>4239</b>	<b>25.9</b>		
481.wrf	8	1947	45.9	1947	45.9	<b>1947</b>	<b>45.9</b>	8	1947	45.9	1947	45.9	<b>1947</b>	<b>45.9</b>		
482.sphinx3	8	3143	49.6	3138	49.7	<b>3139</b>	<b>49.7</b>	8	2878	54.2	2884	54.1	<b>2881</b>	<b>54.1</b>		

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 1333 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:

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Fujitsu Siemens Computers

PRIMERGY TX300 S3, Intel Xeon processor X5355,  
2.66 GHz

SPECfp\_rate2006 = 60.9

SPECfp\_rate\_base2006 = 58.6

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Mar-2007

Hardware Availability: Jan-2007

Software Availability: Feb-2007

## General Notes (Continued)

Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

This result was measured on the PRIMERGY RX300 S3. The PRIMERGY RX300 S3 and 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.lelie3d: -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

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu Siemens Computers**

PRIMERGY TX300 S3, Intel Xeon processor X5355,  
2.66 GHz

**SPECfp\_rate2006 = 60.9**

**SPECfp\_rate\_base2006 = 58.6**

**CPU2006 license:** 22

**Test sponsor:** Fujitsu Siemens Computers

**Tested by:** Fujitsu Siemens Computers

**Test date:** Mar-2007

**Hardware Availability:** Jan-2007

**Software Availability:** Feb-2007

## Base Optimization Flags (Continued)

C++ benchmarks:

-fast

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



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu Siemens Computers**

PRIMERGY TX300 S3, Intel Xeon processor X5355,  
2.66 GHz

**SPECfp\_rate2006 = 60.9**

**SPECfp\_rate\_base2006 = 58.6**

**CPU2006 license:** 22

**Test sponsor:** Fujitsu Siemens Computers

**Tested by:** Fujitsu Siemens Computers

**Test date:** Mar-2007

**Hardware Availability:** Jan-2007

**Software Availability:** Feb-2007

## 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](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](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.xml)



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu Siemens Computers**

PRIMERGY TX300 S3, Intel Xeon processor X5355,  
2.66 GHz

**SPECfp\_rate2006 = 60.9**

**SPECfp\_rate\_base2006 = 58.6**

**CPU2006 license:** 22

**Test sponsor:** Fujitsu Siemens Computers

**Tested by:** Fujitsu Siemens Computers

**Test date:** Mar-2007

**Hardware Availability:** Jan-2007

**Software Availability:** Feb-2007

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 12:04:21 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 17 April 2007.