



# SPEC® CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY TX150 S6, Intel Core 2 Duo E7200, 2.53 GHz

SPECfp®\_rate2006 = 28.2

SPECfp\_rate\_base2006 = 26.7

CPU2006 license: 22

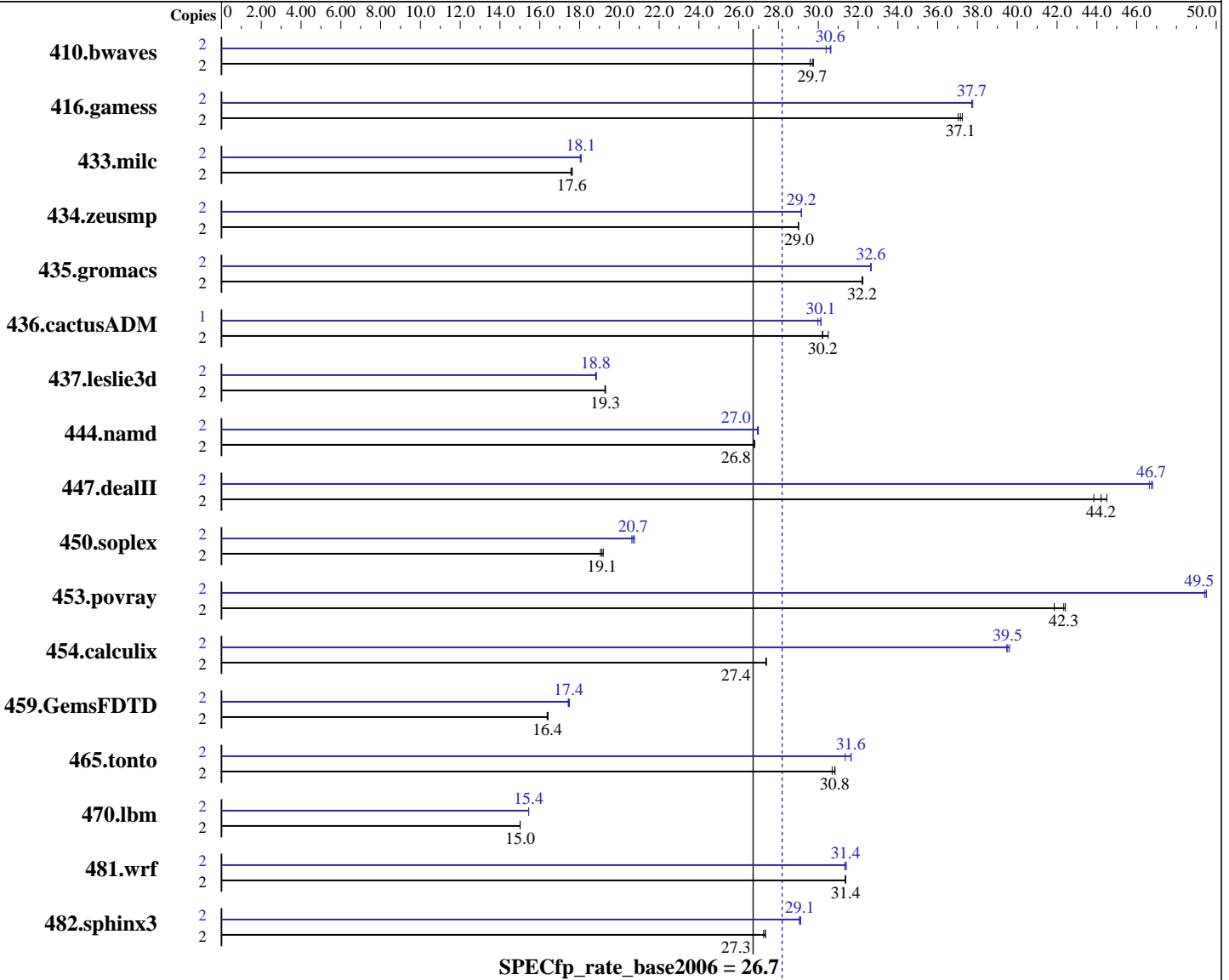
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Aug-2008

Hardware Availability: Aug-2008

Software Availability: May-2008



### Hardware

CPU Name: Intel Core 2 Duo E7200  
 CPU Characteristics: 1067 MHz system bus  
 CPU MHz: 2533  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 3 MB I+D on chip per chip

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### Software

Operating System: SuSE Linux Enterprise Server 10 (x86\_64) with SP2, kernel 2.6.16.60-0.21-smp  
 Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 Version 10.1 - Build 20070913  
 Auto Parallel: Yes  
 File System: ext3  
 System State: Multi-User Run Level 3  
 Base Pointers: 64-bit

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L3 Cache: None  
Other Cache: None  
Memory: 8 GB (4x2 GB PC2-6400E, 2 rank, CL 6-6-6, ECC)  
Disk Subsystem: 1x SATA, 80 GB, 7200 rpm  
Other Hardware: None

Peak Pointers: 32/64-bit  
Other Software: binutils-2.17.50.0.5-0.1.x86\_64

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	<b>915</b>	<b>29.7</b>	914	29.8	919	29.6	2	887	30.6	<b>888</b>	<b>30.6</b>	894	30.4
416.gamess	2	<b>1054</b>	<b>37.1</b>	1057	37.0	1052	37.2	2	1037	37.8	<b>1038</b>	<b>37.7</b>	1039	37.7
433.milc	2	1045	17.6	1041	17.6	<b>1042</b>	<b>17.6</b>	2	<b>1016</b>	<b>18.1</b>	1016	18.1	1018	18.0
434.zeusmp	2	<b>628</b>	<b>29.0</b>	627	29.0	628	29.0	2	624	29.2	<b>624</b>	<b>29.2</b>	625	29.1
435.gromacs	2	443	32.2	443	32.2	<b>443</b>	<b>32.2</b>	2	<b>437</b>	<b>32.6</b>	438	32.6	437	32.7
436.cactusADM	2	791	30.2	<b>791</b>	<b>30.2</b>	784	30.5	1	399	30.0	<b>397</b>	<b>30.1</b>	397	30.1
437.leslie3d	2	<b>974</b>	<b>19.3</b>	974	19.3	975	19.3	2	<b>999</b>	<b>18.8</b>	997	18.9	1000	18.8
444.namd	2	598	26.8	<b>599</b>	<b>26.8</b>	599	26.8	2	<b>595</b>	<b>27.0</b>	594	27.0	596	26.9
447.dealII	2	514	44.5	<b>518</b>	<b>44.2</b>	522	43.8	2	489	46.8	<b>489</b>	<b>46.7</b>	491	46.6
450.soplex	2	869	19.2	876	19.1	<b>872</b>	<b>19.1</b>	2	<b>806</b>	<b>20.7</b>	803	20.8	809	20.6
453.povray	2	<b>251</b>	<b>42.3</b>	254	41.9	251	42.4	2	<b>215</b>	<b>49.5</b>	215	49.5	215	49.4
454.calculix	2	602	27.4	<b>603</b>	<b>27.4</b>	603	27.4	2	<b>418</b>	<b>39.5</b>	418	39.5	417	39.6
459.GemsFDTD	2	1293	16.4	<b>1295</b>	<b>16.4</b>	1296	16.4	2	<b>1216</b>	<b>17.4</b>	1218	17.4	1213	17.5
465.tonto	2	<b>638</b>	<b>30.8</b>	638	30.8	641	30.7	2	622	31.7	<b>622</b>	<b>31.6</b>	628	31.4
470.lbm	2	1830	15.0	1831	15.0	<b>1831</b>	<b>15.0</b>	2	<b>1780</b>	<b>15.4</b>	1780	15.4	1780	15.4
481.wrf	2	713	31.4	<b>712</b>	<b>31.4</b>	712	31.4	2	711	31.4	<b>712</b>	<b>31.4</b>	713	31.3
482.sphinx3	2	1431	27.2	<b>1426</b>	<b>27.3</b>	1426	27.3	2	1342	29.0	1339	29.1	<b>1341</b>	<b>29.1</b>

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

## Compiler Invocation Notes

All binaries were built with 64-bit Intel compiler except:  
450.soplex, 470.lbm and 482.sphinx3 in peak were built with 32-bit Intel compiler.

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run  
OMP\_NUM\_THREADS set to number of cores (default)

## Platform Notes

BIOS configuration:  
Hardware Prefetch = Enable, Adjacent Sector Prefetch = Disable



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## General Notes

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

## 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 (except as noted below):

/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib  
-I/opt/intel/fc/10.1.008/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



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## Peak Optimization Flags

### C benchmarks:

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

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

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## Peak Optimization Flags (Continued)

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

481.wrf: -fast -auto-ilp32

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

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.html>

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

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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