



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu Siemens Computers

PRIMERGY RX300 S3, Intel Xeon processor 5130, 2.0 GHz

SPECfp<sup>®</sup>\_rate2006 = 37.3

SPECfp\_rate\_base2006 = 36.1

CPU2006 license: 22

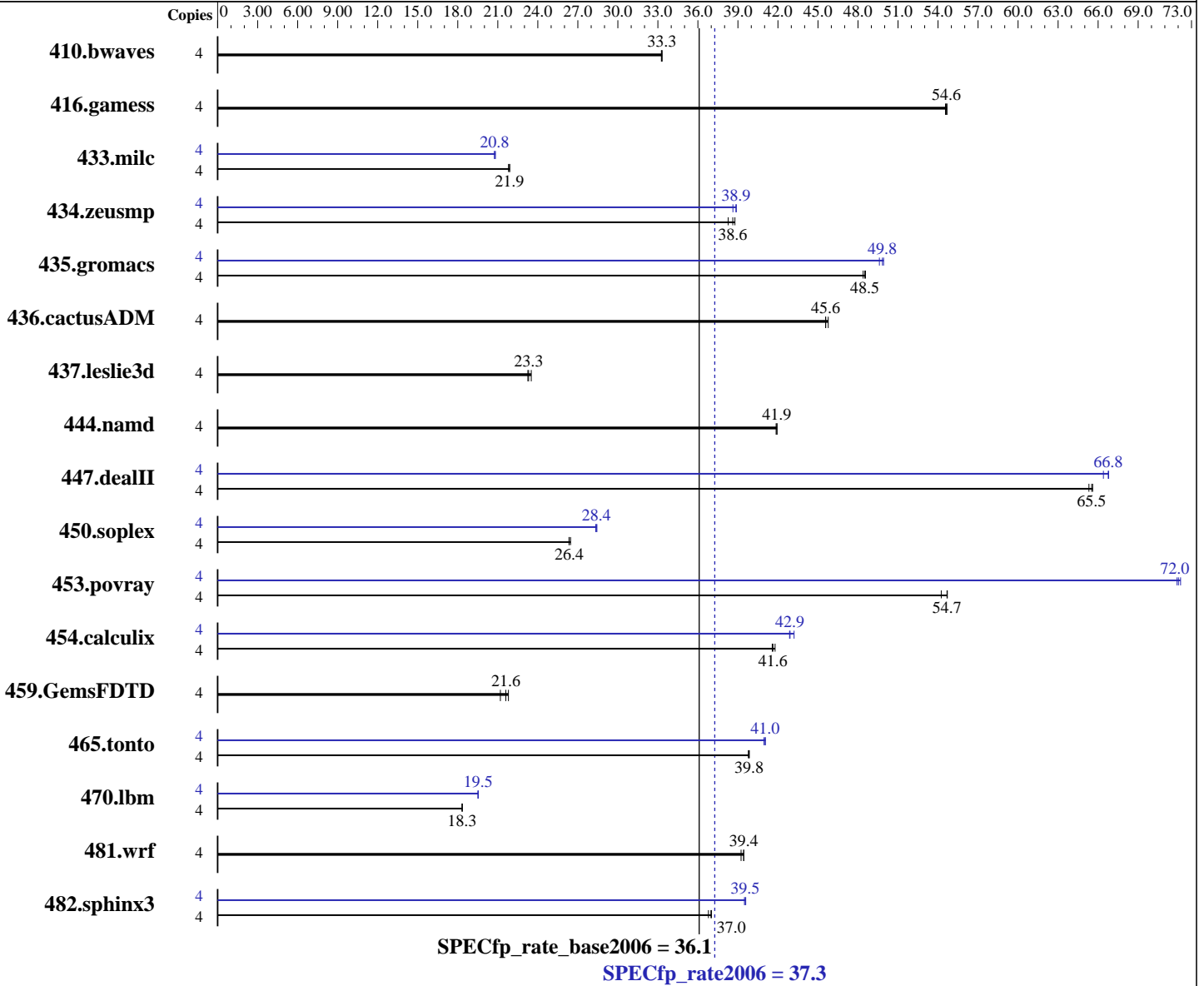
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: May-2007

Hardware Availability: Jul-2006

Software Availability: Feb-2007



### Hardware

CPU Name: Intel Xeon 5130  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 2000  
 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

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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	1634	33.3	1632	33.3	<b>1633</b>	<b>33.3</b>	4	1634	33.3	1632	33.3	<b>1633</b>	<b>33.3</b>		
416.gamess	4	1436	54.6	1433	54.7	<b>1434</b>	<b>54.6</b>	4	1436	54.6	1433	54.7	<b>1434</b>	<b>54.6</b>		
433.milc	4	1678	21.9	<b>1678</b>	<b>21.9</b>	1684	21.8	4	<b>1769</b>	<b>20.8</b>	1769	20.8	1763	20.8		
434.zeusmp	4	939	38.8	<b>943</b>	<b>38.6</b>	951	38.3	4	942	38.6	936	38.9	<b>937</b>	<b>38.9</b>		
435.gromacs	4	590	48.4	<b>589</b>	<b>48.5</b>	588	48.6	4	576	49.6	572	49.9	<b>573</b>	<b>49.8</b>		
436.cactusADM	4	<b>1049</b>	<b>45.6</b>	1049	45.6	1044	45.8	4	<b>1049</b>	<b>45.6</b>	1049	45.6	1044	45.8		
437.leslie3d	4	1599	23.5	1617	23.3	<b>1613</b>	<b>23.3</b>	4	1599	23.5	1617	23.3	<b>1613</b>	<b>23.3</b>		
444.namd	4	766	41.9	<b>765</b>	<b>41.9</b>	765	41.9	4	766	41.9	<b>765</b>	<b>41.9</b>	765	41.9		
447.dealII	4	<b>698</b>	<b>65.5</b>	701	65.3	698	65.6	4	685	66.8	<b>685</b>	<b>66.8</b>	689	66.4		
450.soplex	4	1267	26.3	<b>1266</b>	<b>26.4</b>	1261	26.5	4	1177	28.3	1173	28.4	<b>1175</b>	<b>28.4</b>		
453.povray	4	389	54.7	<b>389</b>	<b>54.7</b>	392	54.2	4	295	72.2	296	71.9	<b>295</b>	<b>72.0</b>		
454.calculix	4	<b>793</b>	<b>41.6</b>	790	41.8	794	41.6	4	764	43.2	<b>769</b>	<b>42.9</b>	770	42.9		
459.GemsFDTD	4	1947	21.8	2003	21.2	<b>1964</b>	<b>21.6</b>	4	1947	21.8	2003	21.2	<b>1964</b>	<b>21.6</b>		
465.tonto	4	988	39.9	<b>988</b>	<b>39.8</b>	989	39.8	4	959	41.1	961	41.0	<b>959</b>	<b>41.0</b>		
470.lbm	4	2996	18.3	2999	18.3	<b>2998</b>	<b>18.3</b>	4	2816	19.5	2813	19.5	<b>2815</b>	<b>19.5</b>		
481.wrf	4	1133	39.4	1139	39.2	<b>1133</b>	<b>39.4</b>	4	1133	39.4	1139	39.2	<b>1133</b>	<b>39.4</b>		
482.sphinx3	4	2119	36.8	2106	37.0	<b>2108</b>	<b>37.0</b>	4	1969	39.6	1974	39.5	<b>1971</b>	<b>39.5</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.

The PRIMERGY RX300 S3 and the PRIMERGY TX300 S3 are electronically equivalent.

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## General Notes (Continued)

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/9.1.047/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](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)



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

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 11:49:13 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 29 May 2007.