



# SPEC® CFP2006 Result

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## Fujitsu

### SPECfp®\_rate2006 = 51.8

PRIMERGY TX100 S3, Intel Celeron G530, 2.40 GHz

### SPECfp\_rate\_base2006 = 50.4

CPU2006 license: 19

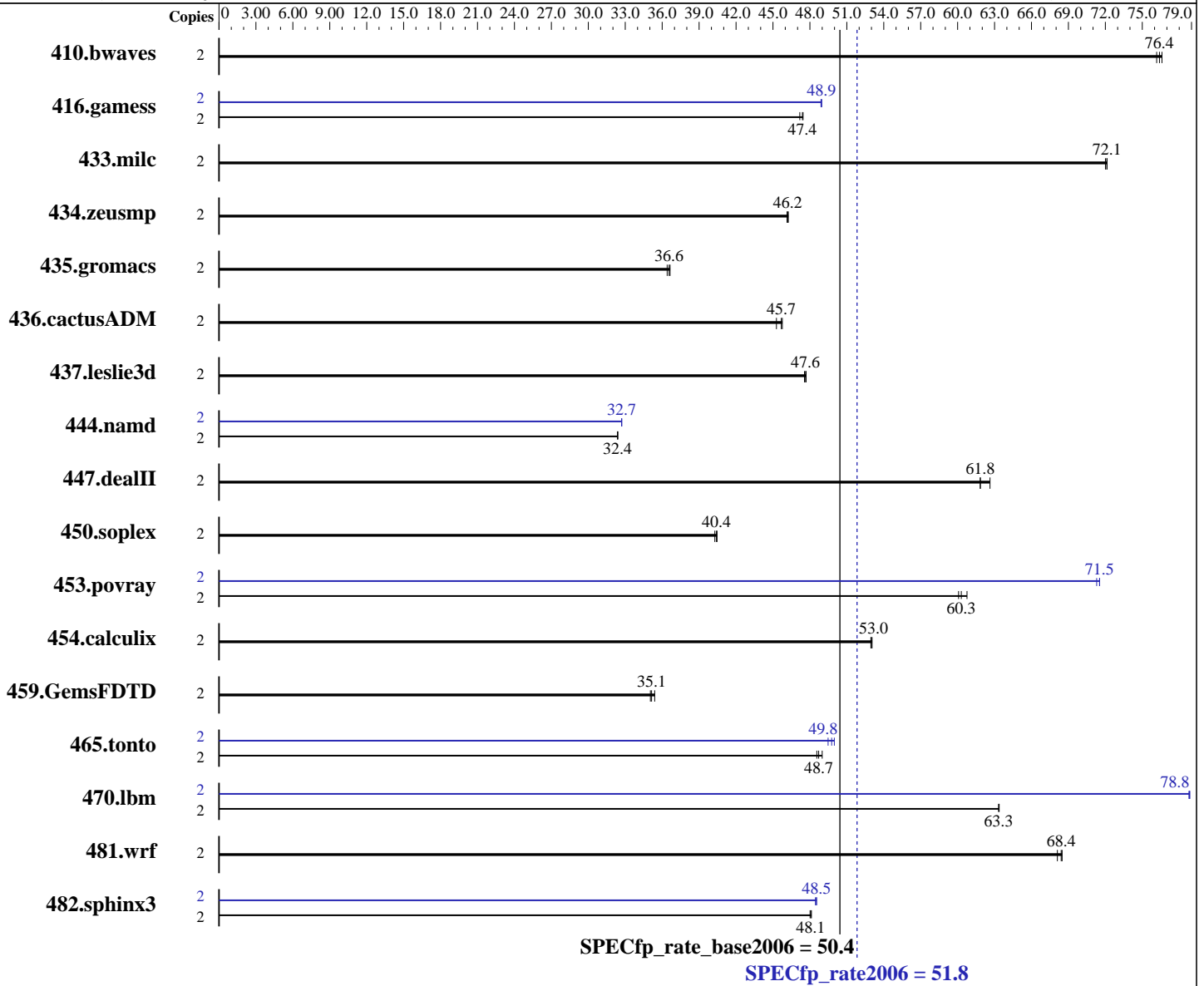
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Aug-2011

Hardware Availability: Sep-2011

Software Availability: Jan-2011



### Hardware

CPU Name: Intel Celeron G530  
 CPU Characteristics:  
 CPU MHz: 2400  
 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: 256 KB I+D on chip per core

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### Software

Operating System: SUSE Linux Enterprise Server 11 (x86\_64) SP1, Kernel 2.6.32.12-0.7-default  
 Compiler: Intel C++ and Fortran Intel 64 Compiler XE for applications running on Intel 64 Version 12.0.1.116 Build 20101116  
 Auto Parallel: No  
 File System: ext3  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit

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L3 Cache: 2 MB I+D on chip per chip  
Other Cache: None  
Memory: 8 GB (2 x 4 GB 2Rx8 PC3-10600E-9, ECC, running at 1067 MHz and CL7)  
Disk Subsystem: 1 x SATA, 300 GB, 7200 RPM  
Other Hardware: None

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	2	355	76.6	357	76.2	<b>356</b>	<b>76.4</b>	2	355	76.6	357	76.2	<b>356</b>	<b>76.4</b>
416.gamess	2	825	47.4	<b>826</b>	<b>47.4</b>	830	47.2	2	800	48.9	801	48.9	<b>800</b>	<b>48.9</b>
433.milc	2	<b>255</b>	<b>72.1</b>	255	72.1	255	72.0	2	<b>255</b>	<b>72.1</b>	255	72.1	255	72.0
434.zeusmp	2	<b>394</b>	<b>46.2</b>	394	46.1	394	46.2	2	<b>394</b>	<b>46.2</b>	394	46.1	394	46.2
435.gromacs	2	<b>391</b>	<b>36.6</b>	392	36.4	390	36.6	2	<b>391</b>	<b>36.6</b>	392	36.4	390	36.6
436.cactusADM	2	522	45.8	<b>523</b>	<b>45.7</b>	528	45.3	2	522	45.8	<b>523</b>	<b>45.7</b>	528	45.3
437.leslie3d	2	<b>395</b>	<b>47.6</b>	394	47.7	395	47.6	2	<b>395</b>	<b>47.6</b>	394	47.7	395	47.6
444.namd	2	<b>495</b>	<b>32.4</b>	495	32.4	495	32.4	2	490	32.7	<b>490</b>	<b>32.7</b>	490	32.7
447.dealII	2	365	62.6	370	61.8	<b>370</b>	<b>61.8</b>	2	365	62.6	370	61.8	<b>370</b>	<b>61.8</b>
450.soplex	2	<b>413</b>	<b>40.4</b>	412	40.5	414	40.3	2	<b>413</b>	<b>40.4</b>	412	40.5	414	40.3
453.povray	2	<b>176</b>	<b>60.3</b>	177	60.1	175	60.8	2	149	71.5	149	71.3	<b>149</b>	<b>71.5</b>
454.calculix	2	311	53.1	<b>311</b>	<b>53.0</b>	312	53.0	2	311	53.1	<b>311</b>	<b>53.0</b>	312	53.0
459.GemsFDTD	2	606	35.0	600	35.4	<b>604</b>	<b>35.1</b>	2	606	35.0	600	35.4	<b>604</b>	<b>35.1</b>
465.tonto	2	402	49.0	<b>404</b>	<b>48.7</b>	405	48.6	2	<b>395</b>	<b>49.8</b>	394	50.0	398	49.5
470.lbm	2	434	63.4	<b>434</b>	<b>63.3</b>	434	63.3	2	349	78.8	<b>349</b>	<b>78.8</b>	348	78.9
481.wrf	2	328	68.1	326	68.5	<b>327</b>	<b>68.4</b>	2	328	68.1	326	68.5	<b>327</b>	<b>68.4</b>
482.sphinx3	2	812	48.0	810	48.1	<b>811</b>	<b>48.1</b>	2	803	48.5	805	48.4	<b>803</b>	<b>48.5</b>

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

## Submit Notes

The config file option 'submit' was used.  
numactl was used to bind copies to the cores

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run  
Large pages were not enabled for this run

## General Notes

For information about Fujitsu please visit: <http://www.fujitsu.com>  
Binaries were compiled on RHEL5.5



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## Base Compiler Invocation

C benchmarks:

icc -m64

C++ benchmarks:

icpc -m64

Fortran benchmarks:

ifort -m64

Benchmarks using both Fortran and C:

icc -m64 ifort -m64

## 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:

-xSSE4.2 -ipo -O3 -no-prec-div -static -ansi-alias

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -ansi-alias

Fortran benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:

-xSSE4.2 -ipo -O3 -no-prec-div -static -ansi-alias



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## Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m64

482.sphinx3: icc -m32

C++ benchmarks:

icpc -m64

Fortran benchmarks:

ifort -m64

Benchmarks using both Fortran and C:

icc -m64 ifort -m64

## 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  
 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

## Peak Optimization Flags

C benchmarks:

433.milc: basepeak = yes

470.lbm: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
 -no-prec-div(pass 2) -prof-use(pass 2) -opt-malloc-options=3  
 -ansi-alias -opt-prefetch -static -auto-ilp32

482.sphinx3: -xSSE4.2 -ipo -O3 -no-prec-div -unroll2

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## Peak Optimization Flags (Continued)

C++ benchmarks:

444.namd: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -fno-alias  
-auto-ilp32

447.dealII: basepeak = yes

450.soplex: basepeak = yes

453.povray: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -ansi-alias  
-B /usr/share/libhugetlbfs/ -Wl,-melf\_x86\_64 -Wl,-hugetlbfs-link=BDT

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2  
-inline-level=0 -scalar-rep- -static

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)  
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -auto  
-inline-calloc -opt-malloc-options=3  
-B /usr/share/libhugetlbfs/ -Wl,-melf\_x86\_64 -Wl,-hugetlbfs-link=BDT

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.20110316.html>

<http://www.spec.org/cpu2006/flags/Fujitsu-Platform.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.20110316.xml>

<http://www.spec.org/cpu2006/flags/Fujitsu-Platform.xml>

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Tested with SPEC CPU2006 v1.1.  
Report generated on Wed Jul 23 21:40:04 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 27 September 2011.