



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu

### SPECfp<sup>®</sup>\_rate2006 = 35.3

### CELSIUS W380, Intel Celeron G1101

### SPECfp\_rate\_base2006 = 34.1

CPU2006 license: 19

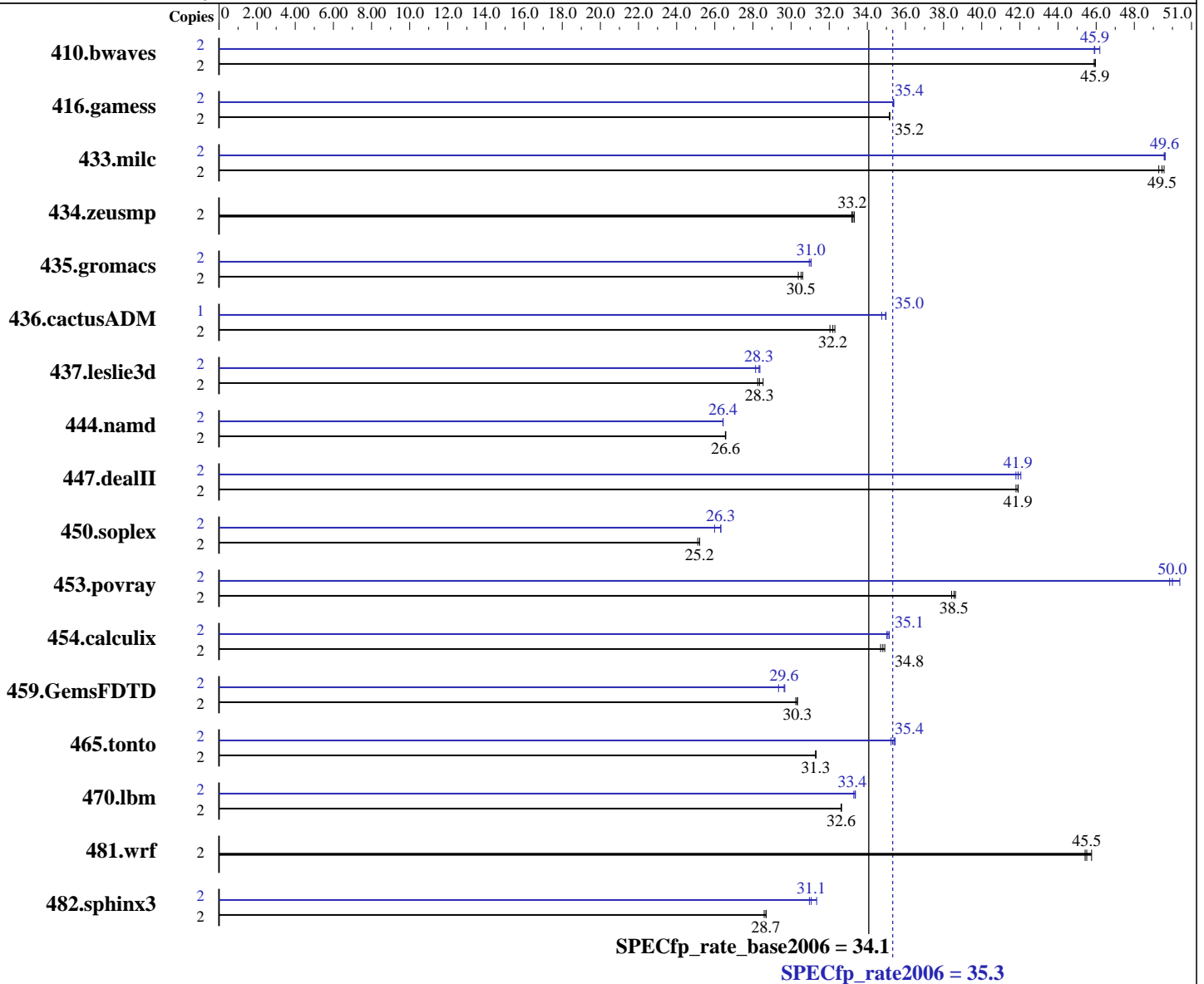
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Feb-2010

Hardware Availability: Mar-2010

Software Availability: Dec-2009



#### Hardware

CPU Name: Intel Celeron G1101  
 CPU Characteristics:  
 CPU MHz: 2267  
 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), kernel 2.6.27.19-5-default  
 Compiler: Intel C++ and Fortran Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: l\_cproc\_p\_11.1.064, l\_cprof\_p\_11.1.064  
 Auto Parallel: Yes  
 File System: ext3  
 System State: Run level 3 (multi-user)

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L3 Cache: 2 MB I+D on chip per chip  
Other Cache: None  
Memory: 4 GB (2x2 GB PC3 10600E, 2 rank, CL9, with ECC, running at 1066 MHz)  
Disk Subsystem: 1 x SATA II, 400 GB, 7200 rpm  
Other Hardware: None

Base Pointers: 64-bit  
Peak Pointers: 32/64-bit  
Other Software: Binutils 2.18.50.0.7.20080502

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	591	46.0	592	45.9	<b>592</b>	<b>45.9</b>	2	<b>592</b>	<b>45.9</b>	592	45.9	588	46.2
416.gamess	2	<b>1113</b>	<b>35.2</b>	1114	35.2	1113	35.2	2	<b>1107</b>	<b>35.4</b>	1107	35.4	1107	35.4
433.milc	2	370	49.6	373	49.3	<b>371</b>	<b>49.5</b>	2	370	49.6	370	49.6	<b>370</b>	<b>49.6</b>
434.zeusmp	2	<b>547</b>	<b>33.2</b>	549	33.2	546	33.3	2	<b>547</b>	<b>33.2</b>	549	33.2	546	33.3
435.gromacs	2	470	30.4	<b>468</b>	<b>30.5</b>	467	30.6	2	461	31.0	<b>460</b>	<b>31.0</b>	460	31.1
436.cactusADM	2	746	32.0	<b>742</b>	<b>32.2</b>	740	32.3	1	<b>342</b>	<b>35.0</b>	344	34.8	342	35.0
437.leslie3d	2	665	28.3	<b>663</b>	<b>28.3</b>	659	28.5	2	<b>664</b>	<b>28.3</b>	668	28.1	663	28.4
444.namd	2	604	26.6	604	26.6	<b>604</b>	<b>26.6</b>	2	<b>607</b>	<b>26.4</b>	607	26.4	607	26.4
447.dealII	2	546	41.9	<b>546</b>	<b>41.9</b>	547	41.8	2	<b>546</b>	<b>41.9</b>	544	42.1	547	41.8
450.soplex	2	664	25.1	662	25.2	<b>662</b>	<b>25.2</b>	2	642	26.0	634	26.3	<b>634</b>	<b>26.3</b>
453.povray	2	<b>276</b>	<b>38.5</b>	277	38.4	275	38.6	2	<b>213</b>	<b>50.0</b>	211	50.4	213	49.9
454.calculix	2	<b>474</b>	<b>34.8</b>	473	34.9	476	34.7	2	469	35.2	471	35.0	<b>470</b>	<b>35.1</b>
459.GemsFDTD	2	700	30.3	<b>700</b>	<b>30.3</b>	702	30.2	2	715	29.7	723	29.3	<b>716</b>	<b>29.6</b>
465.tonto	2	629	31.3	628	31.3	<b>629</b>	<b>31.3</b>	2	558	35.2	<b>556</b>	<b>35.4</b>	555	35.5
470.lbm	2	842	32.6	<b>842</b>	<b>32.6</b>	842	32.6	2	826	33.3	<b>824</b>	<b>33.4</b>	823	33.4
481.wrf	2	492	45.4	488	45.8	<b>491</b>	<b>45.5</b>	2	492	45.4	488	45.8	<b>491</b>	<b>45.5</b>
482.sphinx3	2	<b>1359</b>	<b>28.7</b>	1363	28.6	1358	28.7	2	1259	31.0	<b>1255</b>	<b>31.1</b>	1244	31.3

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.

## General Notes

OMP\_NUM\_THREADS set to number of cores  
KMP\_AFFINITY set to granularity=fine,scatter  
KMP\_STACKSIZE set to 200M



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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:

-xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

C++ benchmarks:

-xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

Fortran benchmarks:

-xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

Benchmarks using both Fortran and C:

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**Software Availability:** Dec-2009

## Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m64

482.sphinx3: icc -m32

C++ benchmarks (except as noted below):

icpc -m64

450.soplex: icpc -m32

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  
 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: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -fno-alias

470.lbm: -xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch  
-auto-ilp32

482.sphinx3: -xSSSE3 -ipo -O3 -no-prec-div -static -unroll2

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## Peak Optimization Flags (Continued)

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -fno-alias -auto-ilp32

447.deallI: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -unroll2 -ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -unroll2 -Ob0 -ansi-alias  
-scalar-rep-

434.zeusmp: basepeak = yes

437.leslie3d: -xSSSE3 -ipo -O3 -no-prec-div -static

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -unroll2 -Ob0 -opt-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -opt-prefetch -auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3  
-no-prec-div -static -unroll2 -opt-prefetch -parallel  
-auto-ilp32

454.calculix: -xSSSE3 -ipo -O3 -no-prec-div -static -auto-ilp32

481.wrf: basepeak = yes

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100316.html>



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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100316.xml>

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Tested with SPEC CPU2006 v1.1.  
Report generated on Wed Jul 23 05:43:13 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 16 March 2010.