# SPEC® CFP2006 Result

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## Fujitsu

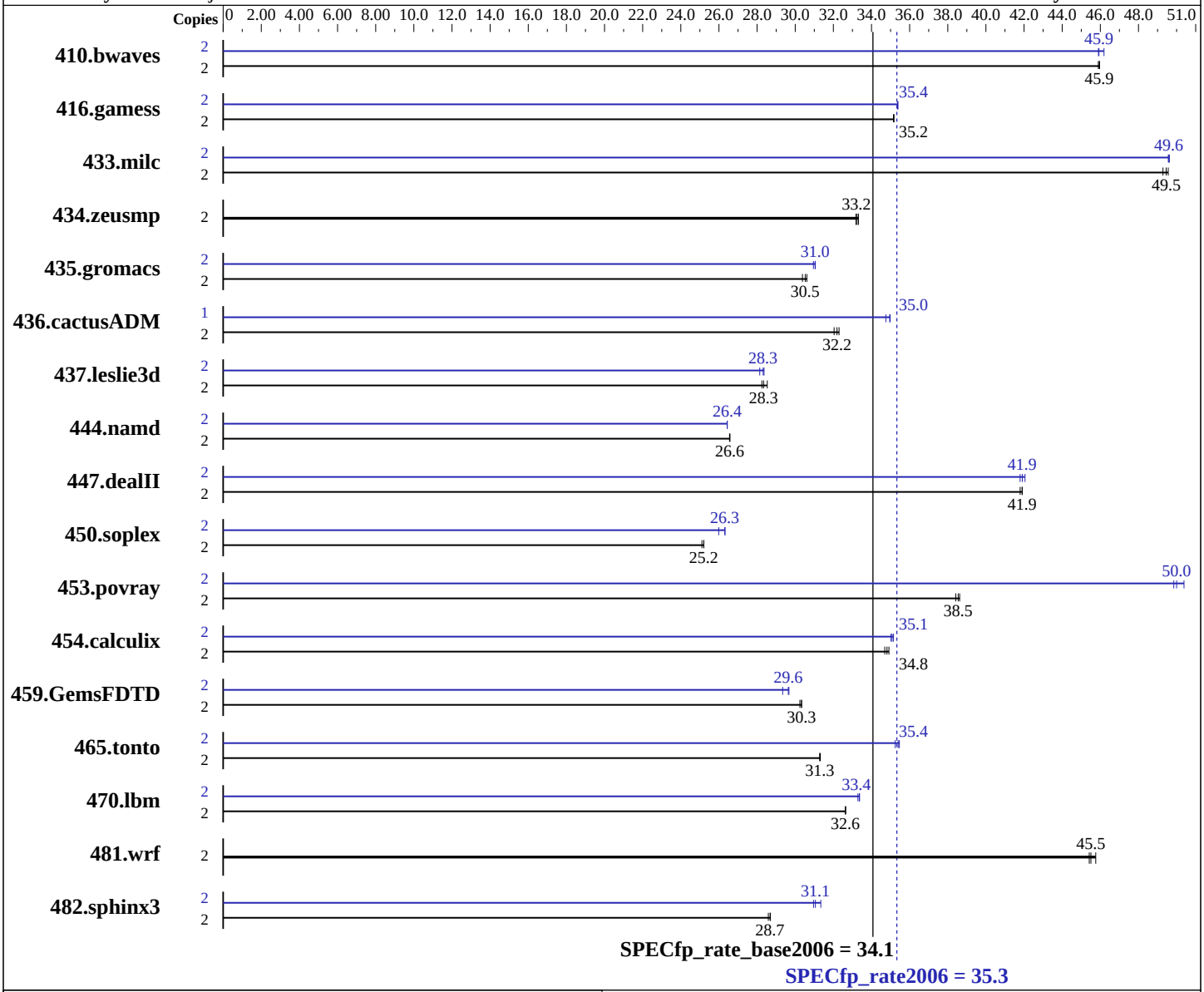
## CELSIUS W380, Intel Celeron G1101

**SPECfp®_rate2006 = 35.3**

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

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

## 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.dealII: -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

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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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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