



# SPEC<sup>®</sup> CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Fujitsu

SPECfp<sup>®</sup>2006 = 37.7

PRIMERGY TX120 S3p, Intel Celeron G550, 2.60 GHz

SPECfp\_base2006 = 37.0

CPU2006 license: 19

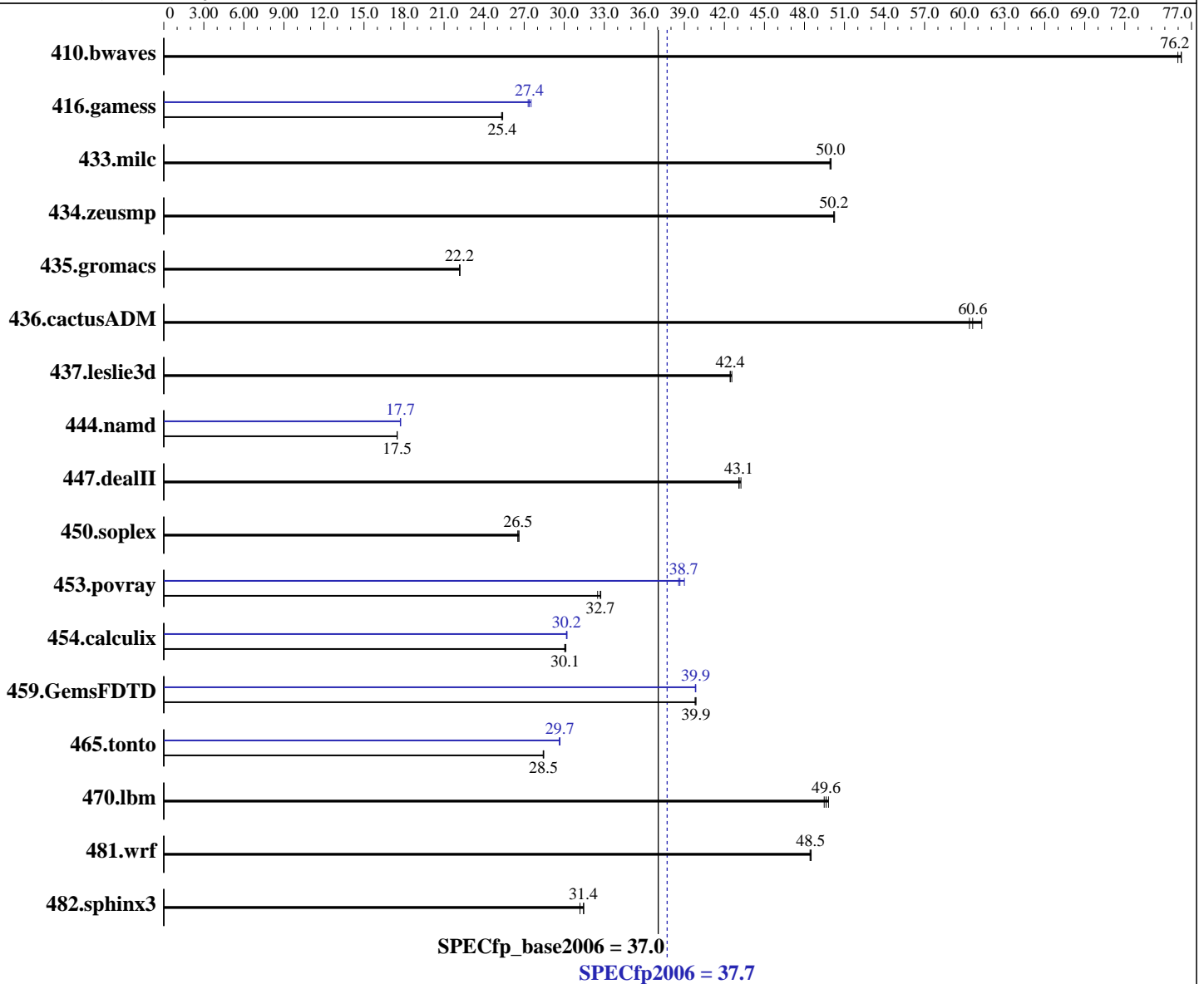
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Jun-2012

Hardware Availability: Jun-2012

Software Availability: Feb-2012



### Hardware

CPU Name: Intel Celeron G550  
 CPU Characteristics:  
 CPU MHz: 2600  
 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

Continued on next page

### Software

Operating System: Red Hat Enterprise Linux Server release 6.2 (Santiago)  
 2.6.32-220.el6.x86\_64  
 Compiler: C/C++: Version 12.1.0.293 of Intel C++ Studio XE for Linux;  
 Fortran: Version 12.1.0.293 of Intel Fortran Studio XE for Linux  
 Auto Parallel: Yes  
 File System: ext4

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Fujitsu

SPECfp2006 = **37.7**

PRIMERGY TX120 S3p, Intel Celeron G550, 2.60 GHz

SPECfp\_base2006 = **37.0**

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Jun-2012

Hardware Availability: Jun-2012

Software Availability: Feb-2012

L3 Cache: 2 MB I+D on chip per chip  
Other Cache: None  
Memory: 16 GB (2 x 8 GB 2Rx8 PC3-12800E-11, ECC, running at 1067 MHz and CL7)  
Disk Subsystem: 1 x SATA, 500 GB, 7200 RPM  
Other Hardware: None

System State: Run level 3 (multi-user)  
Base Pointers: 64-bit  
Peak Pointers: 32/64-bit  
Other Software: None

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	179	76.0	178	76.2	<b>178</b>	<b>76.2</b>	179	76.0	178	76.2	<b>178</b>	<b>76.2</b>
416.gamess	771	25.4	774	25.3	<b>772</b>	<b>25.4</b>	717	27.3	<b>715</b>	<b>27.4</b>	712	27.5
433.milc	184	50.0	184	49.9	<b>184</b>	<b>50.0</b>	184	50.0	184	49.9	<b>184</b>	<b>50.0</b>
434.zeusmp	181	50.3	<b>181</b>	<b>50.2</b>	181	50.2	181	50.3	<b>181</b>	<b>50.2</b>	181	50.2
435.gromacs	322	22.2	<b>322</b>	<b>22.2</b>	322	22.2	322	22.2	<b>322</b>	<b>22.2</b>	322	22.2
436.cactusADM	198	60.4	<b>197</b>	<b>60.6</b>	195	61.3	198	60.4	<b>197</b>	<b>60.6</b>	195	61.3
437.leslie3d	221	42.4	221	42.6	<b>221</b>	<b>42.4</b>	221	42.4	221	42.6	<b>221</b>	<b>42.4</b>
444.namd	<b>459</b>	<b>17.5</b>	459	17.5	459	17.5	453	17.7	452	17.7	<b>452</b>	<b>17.7</b>
447.dealII	265	43.2	265	43.1	<b>265</b>	<b>43.1</b>	265	43.2	265	43.1	<b>265</b>	<b>43.1</b>
450.soplex	313	26.6	<b>314</b>	<b>26.5</b>	314	26.5	313	26.6	<b>314</b>	<b>26.5</b>	314	26.5
453.povray	<b>163</b>	<b>32.7</b>	164	32.5	162	32.7	<b>138</b>	<b>38.7</b>	136	39.0	138	38.6
454.calculix	274	30.1	275	30.0	<b>274</b>	<b>30.1</b>	273	30.2	<b>273</b>	<b>30.2</b>	273	30.2
459.GemsFDTD	<b>266</b>	<b>39.9</b>	266	39.9	267	39.8	266	39.8	266	39.9	<b>266</b>	<b>39.9</b>
465.tonto	<b>346</b>	<b>28.5</b>	346	28.4	346	28.5	332	29.6	331	29.7	<b>332</b>	<b>29.7</b>
470.lbm	278	49.5	276	49.8	<b>277</b>	<b>49.6</b>	278	49.5	276	49.8	<b>277</b>	<b>49.6</b>
481.wrf	<b>230</b>	<b>48.5</b>	230	48.5	231	48.4	<b>230</b>	<b>48.5</b>	230	48.5	231	48.4
482.sphinx3	<b>620</b>	<b>31.4</b>	619	31.5	625	31.2	<b>620</b>	<b>31.4</b>	619	31.5	625	31.2

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

## Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"  
Transparent Huge Pages enabled with:  
echo always > /sys/kernel/mm/redhat\_transparent\_hugepage/enabled

## Platform Notes

BIOS configuration:  
Intel HT Technology = Disable



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu**

**SPECfp2006 = 37.7**

PRIMERGY TX120 S3p, Intel Celeron G550, 2.60 GHz

**SPECfp\_base2006 = 37.0**

**CPU2006 license:** 19

**Test date:** Jun-2012

**Test sponsor:** Fujitsu

**Hardware Availability:** Jun-2012

**Tested by:** Fujitsu

**Software Availability:** Feb-2012

## General Notes

Environment variables set by runspec before the start of the run:

```
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/SPECcpu2006/libs/32:/SPECcpu2006/libs/64"
OMP_NUM_THREADS = "2"
```

Binaries compiled on a system with 1x E3-1270v2 CPU + 32 GB memory using RHEL6.2

For information about Fujitsu please visit: <http://www.fujitsu.com>

## 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.deallI: -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
```



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu**

**SPECfp2006 = 37.7**

PRIMERGY TX120 S3p, Intel Celeron G550, 2.60 GHz

**SPECfp\_base2006 = 37.0**

**CPU2006 license:** 19  
**Test sponsor:** Fujitsu  
**Tested by:** Fujitsu

**Test date:** Jun-2012  
**Hardware Availability:** Jun-2012  
**Software Availability:** Feb-2012

## Base Optimization Flags

C benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch  
-ansi-alias`

C++ benchmarks:

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

Fortran benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch`

Benchmarks using both Fortran and C:

`-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch  
-ansi-alias`

## Peak Compiler Invocation

C benchmarks:

`icc -m64`

C++ benchmarks:

`icpc -m64`

Fortran benchmarks:

`ifort -m64`

Benchmarks using both Fortran and C:

`icc -m64 ifort -m64`

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

`433.milc: basepeak = yes`

`470.lbm: basepeak = yes`

`482.sphinx3: basepeak = yes`

C++ benchmarks:

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Fujitsu**

**SPECfp2006 = 37.7**

PRIMERGY TX120 S3p, Intel Celeron G550, 2.60 GHz

**SPECfp\_base2006 = 37.0**

**CPU2006 license:** 19

**Test date:** Jun-2012

**Test sponsor:** Fujitsu

**Hardware Availability:** Jun-2012

**Tested by:** Fujitsu

**Software Availability:** Feb-2012

## Peak Optimization Flags (Continued)

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.dealIII: 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

### 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: -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 -opt-prefetch -parallel

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) -inline-calloc  
-opt-malloc-options=3 -auto -unroll4

### Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: -xSSE4.2 -ipo -O3 -no-prec-div -auto-ilp32 -ansi-alias

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-ic12.1-official-linux64.20111122.html>

<http://www.spec.org/cpu2006/flags/Fujitsu-Platform.20120320.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.xml>

<http://www.spec.org/cpu2006/flags/Fujitsu-Platform.20120320.xml>



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu

SPECfp2006 = 37.7

PRIMERGY TX120 S3p, Intel Celeron G550, 2.60 GHz

SPECfp\_base2006 = 37.0

CPU2006 license: 19

Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Jun-2012

Hardware Availability: Jun-2012

Software Availability: Feb-2012

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.2.  
Report generated on Thu Jul 24 10:28:19 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 11 September 2012.