



SPEC[®] CFP2006 Result

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Fujitsu

SPECfp[®]_rate2006 = 45.7

PRIMERGY RX100 S7, Intel Celeron G530T, 2.0 GHz

SPECfp_rate_base2006 = 44.5

CPU2006 license: 19

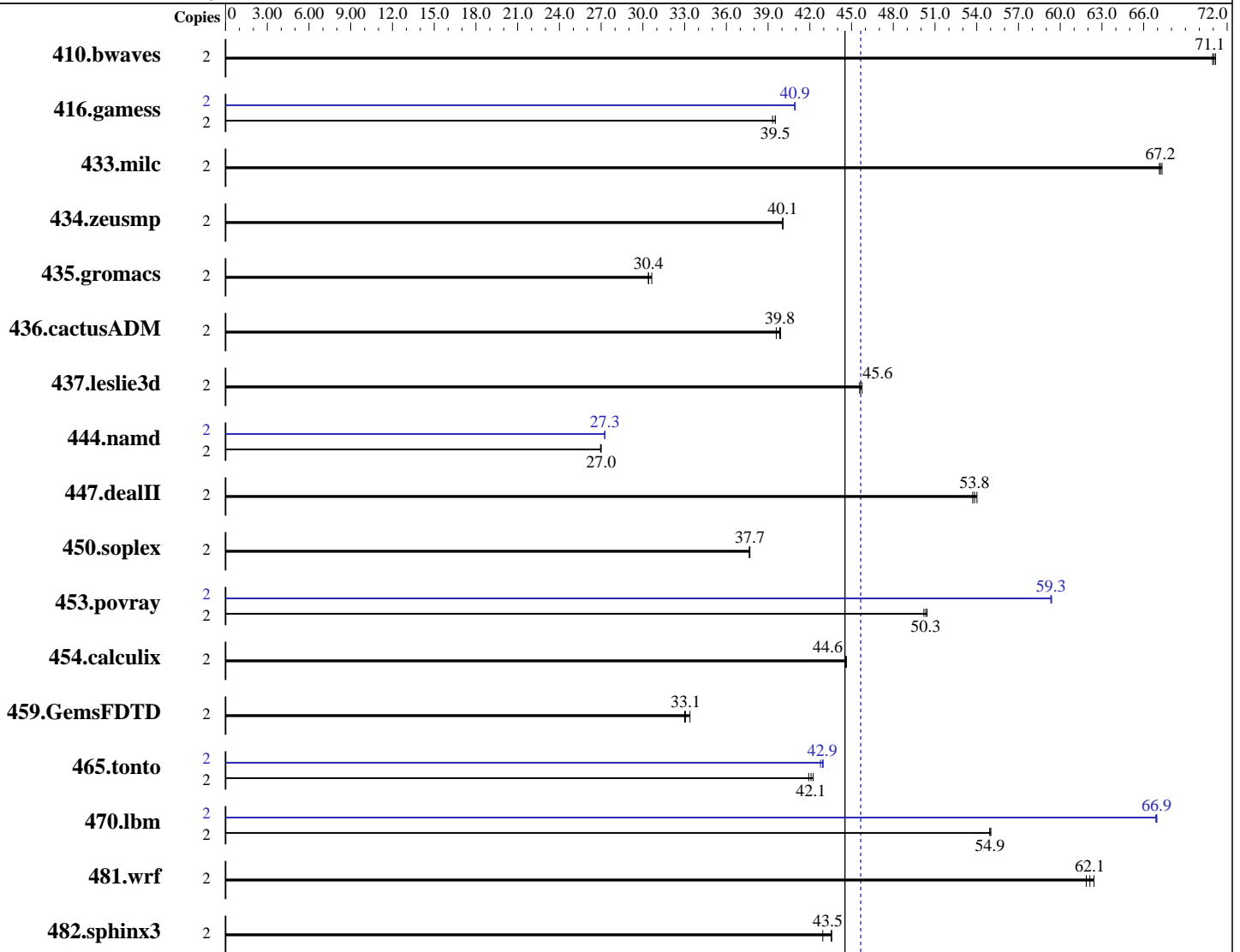
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Sep-2011

Hardware Availability: Sep-2011

Software Availability: Jul-2011



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Hardware

CPU Name: Intel Celeron G530T
 CPU Characteristics:
 CPU MHz: 2000
 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 | 383 | 71.0 | 383 | 71.1 | 382 | 71.2 | 2 | 383 | 71.0 | 383 | 71.1 | 382 | 71.2 |
| 416.gamess | 2 | 991 | 39.5 | 996 | 39.3 | 991 | 39.5 | 2 | 956 | 40.9 | 957 | 40.9 | 956 | 41.0 |
| 433.milc | 2 | 273 | 67.2 | 273 | 67.1 | 273 | 67.3 | 2 | 273 | 67.2 | 273 | 67.1 | 273 | 67.3 |
| 434.zeusmp | 2 | 454 | 40.1 | 454 | 40.1 | 455 | 40.0 | 2 | 454 | 40.1 | 454 | 40.1 | 455 | 40.0 |
| 435.gromacs | 2 | 470 | 30.4 | 466 | 30.6 | 470 | 30.4 | 2 | 470 | 30.4 | 466 | 30.6 | 470 | 30.4 |
| 436.cactusADM | 2 | 600 | 39.8 | 599 | 39.9 | 604 | 39.6 | 2 | 600 | 39.8 | 599 | 39.9 | 604 | 39.6 |
| 437.leslie3d | 2 | 411 | 45.8 | 412 | 45.6 | 412 | 45.6 | 2 | 411 | 45.8 | 412 | 45.6 | 412 | 45.6 |
| 444.namd | 2 | 594 | 27.0 | 595 | 27.0 | 594 | 27.0 | 2 | 588 | 27.3 | 588 | 27.3 | 589 | 27.2 |
| 447.dealII | 2 | 424 | 54.0 | 425 | 53.8 | 426 | 53.7 | 2 | 424 | 54.0 | 425 | 53.8 | 426 | 53.7 |
| 450.soplex | 2 | 443 | 37.6 | 443 | 37.7 | 443 | 37.7 | 2 | 443 | 37.6 | 443 | 37.7 | 443 | 37.7 |
| 453.povray | 2 | 211 | 50.4 | 211 | 50.3 | 212 | 50.2 | 2 | 179 | 59.3 | 179 | 59.4 | 179 | 59.3 |
| 454.calculix | 2 | 370 | 44.6 | 370 | 44.6 | 370 | 44.6 | 2 | 370 | 44.6 | 370 | 44.6 | 370 | 44.6 |
| 459.GemsFDTD | 2 | 642 | 33.1 | 643 | 33.0 | 636 | 33.4 | 2 | 642 | 33.1 | 643 | 33.0 | 636 | 33.4 |
| 465.tonto | 2 | 466 | 42.2 | 468 | 42.1 | 469 | 41.9 | 2 | 460 | 42.8 | 458 | 43.0 | 459 | 42.9 |
| 470.lbm | 2 | 500 | 55.0 | 500 | 54.9 | 500 | 54.9 | 2 | 410 | 67.0 | 411 | 66.9 | 411 | 66.9 |
| 481.wrf | 2 | 361 | 61.9 | 360 | 62.1 | 358 | 62.4 | 2 | 361 | 61.9 | 360 | 62.1 | 358 | 62.4 |
| 482.sphinx3 | 2 | 895 | 43.5 | 895 | 43.6 | 908 | 42.9 | 2 | 895 | 43.5 | 895 | 43.6 | 908 | 42.9 |

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 RHEL 5.5



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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:
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: -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: basepeak = yes

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

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Peak Optimization Flags (Continued)

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.20110705.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.20110705.xml>

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

Tested with SPEC CPU2006 v1.1.

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