



SPEC® CFP2006 Result

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Fujitsu

SPECfp®_rate2006 = 55.0

PRIMERGY TX100 S3, Intel Pentium G620, 2.60 GHz

SPECfp_rate_base2006 = 54.3

CPU2006 license: 19

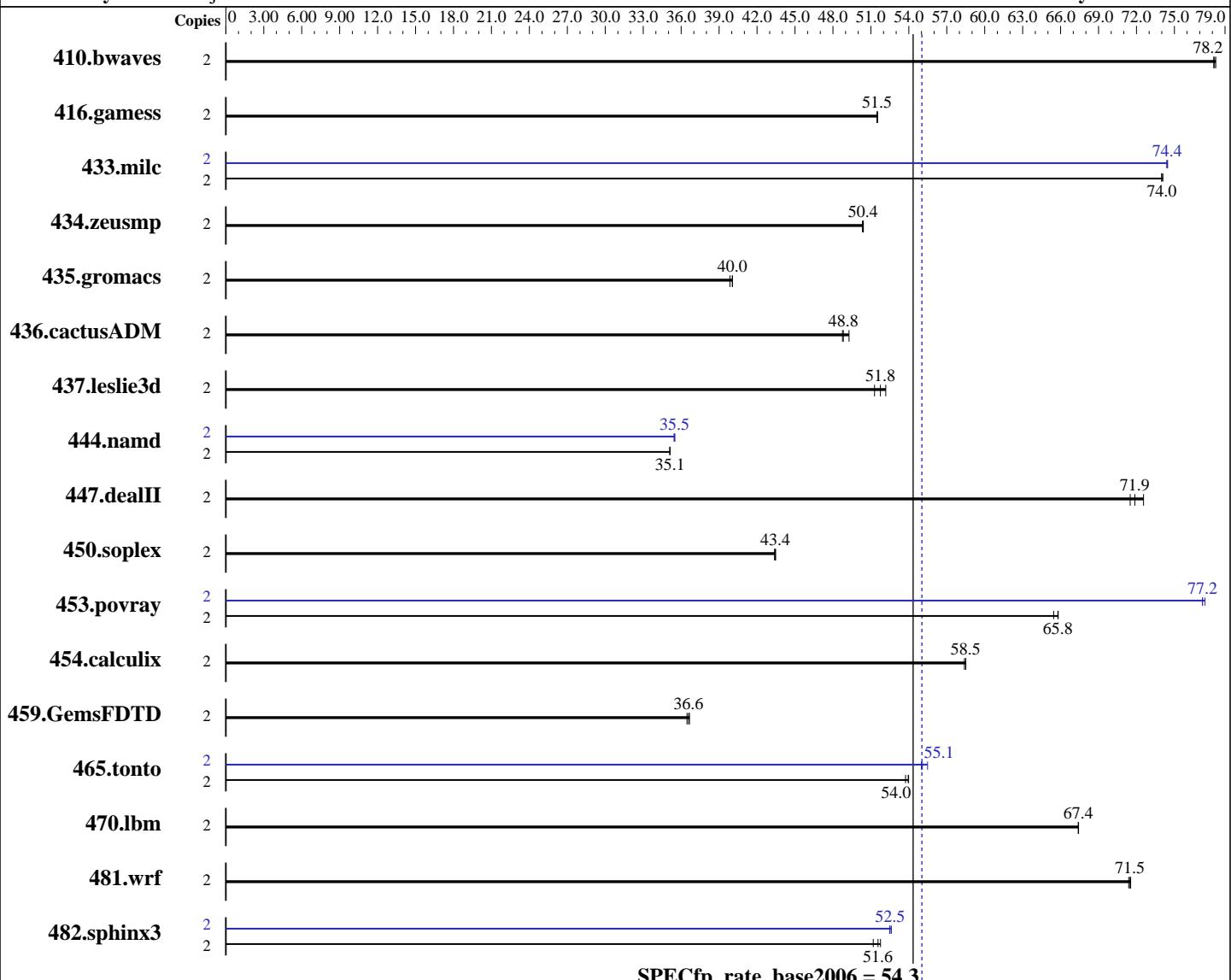
Test date: Jul-2011

Test sponsor: Fujitsu

Hardware Availability: Sep-2011

Tested by: Fujitsu

Software Availability: Jan-2011



SPECfp_rate_base2006 = 54.3

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Hardware

CPU Name: Intel Pentium G620
 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

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64) with 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: 3 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, 500 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	Seconds	Ratio
410.bwaves	2	347	78.3	348	78.1	<u>348</u>	<u>78.2</u>	2	347	78.3	348	78.1	<u>348</u>	<u>78.2</u>		
416.gamess	2	760	51.5	761	51.5	<u>761</u>	<u>51.5</u>	2	760	51.5	761	51.5	<u>761</u>	<u>51.5</u>		
433.milc	2	248	74.0	248	74.1	<u>248</u>	<u>74.0</u>	2	247	74.4	247	74.4	<u>247</u>	<u>74.5</u>		
434.zeusmp	2	361	50.4	362	50.3	<u>361</u>	<u>50.4</u>	2	361	50.4	362	50.3	<u>361</u>	<u>50.4</u>		
435.gromacs	2	357	40.1	358	39.9	<u>357</u>	<u>40.0</u>	2	357	40.1	358	39.9	<u>357</u>	<u>40.0</u>		
436.cactusADM	2	490	48.8	485	49.3	<u>490</u>	<u>48.8</u>	2	490	48.8	485	49.3	<u>490</u>	<u>48.8</u>		
437.leslie3d	2	360	52.2	<u>363</u>	<u>51.8</u>	367	51.3	2	360	52.2	<u>363</u>	<u>51.8</u>	367	51.3		
444.namd	2	<u>457</u>	<u>35.1</u>	457	35.1	457	35.1	2	452	35.5	453	35.4	<u>452</u>	<u>35.5</u>		
447.dealII	2	<u>318</u>	<u>71.9</u>	320	71.5	315	72.6	2	<u>318</u>	<u>71.9</u>	320	71.5	315	72.6		
450.soplex	2	384	43.5	384	43.4	<u>384</u>	<u>43.4</u>	2	384	43.5	384	43.4	<u>384</u>	<u>43.4</u>		
453.povray	2	162	65.8	163	65.5	<u>162</u>	<u>65.8</u>	2	138	77.2	137	77.4	<u>138</u>	<u>77.2</u>		
454.calculix	2	283	58.4	<u>282</u>	<u>58.5</u>	282	58.5	2	283	58.4	<u>282</u>	<u>58.5</u>	282	58.5		
459.GemsFDTD	2	579	36.7	<u>580</u>	<u>36.6</u>	582	36.5	2	579	36.7	<u>580</u>	<u>36.6</u>	582	36.5		
465.tonto	2	366	53.7	<u>365</u>	<u>54.0</u>	365	54.0	2	<u>357</u>	<u>55.1</u>	355	55.5	358	55.0		
470.lbm	2	408	67.4	<u>408</u>	<u>67.4</u>	408	67.4	2	408	67.4	<u>408</u>	<u>67.4</u>	408	67.4		
481.wrf	2	<u>313</u>	<u>71.5</u>	312	71.5	313	71.4	2	<u>313</u>	<u>71.5</u>	312	71.5	313	71.4		
482.sphinx3	2	762	51.2	753	51.8	<u>756</u>	<u>51.6</u>	2	741	52.6	<u>742</u>	<u>52.5</u>	743	52.5		

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: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32

470.lbm: basepeak = yes

482.sphinx3: -xSSE4.2 -ipo -O3 -no-prec-div -unroll12

C++ benchmarks:

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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.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: basepeak = yes

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>
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For other inquiries, please contact webmaster@spec.org.

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