



SPEC® CFP2006 Result

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Fujitsu

SPECfp®_rate2006 = 63.9

PRIMERGY TX200 S6, Intel Xeon E5507, 2.26 GHz

SPECfp_rate_base2006 = 62.0

CPU2006 license: 19

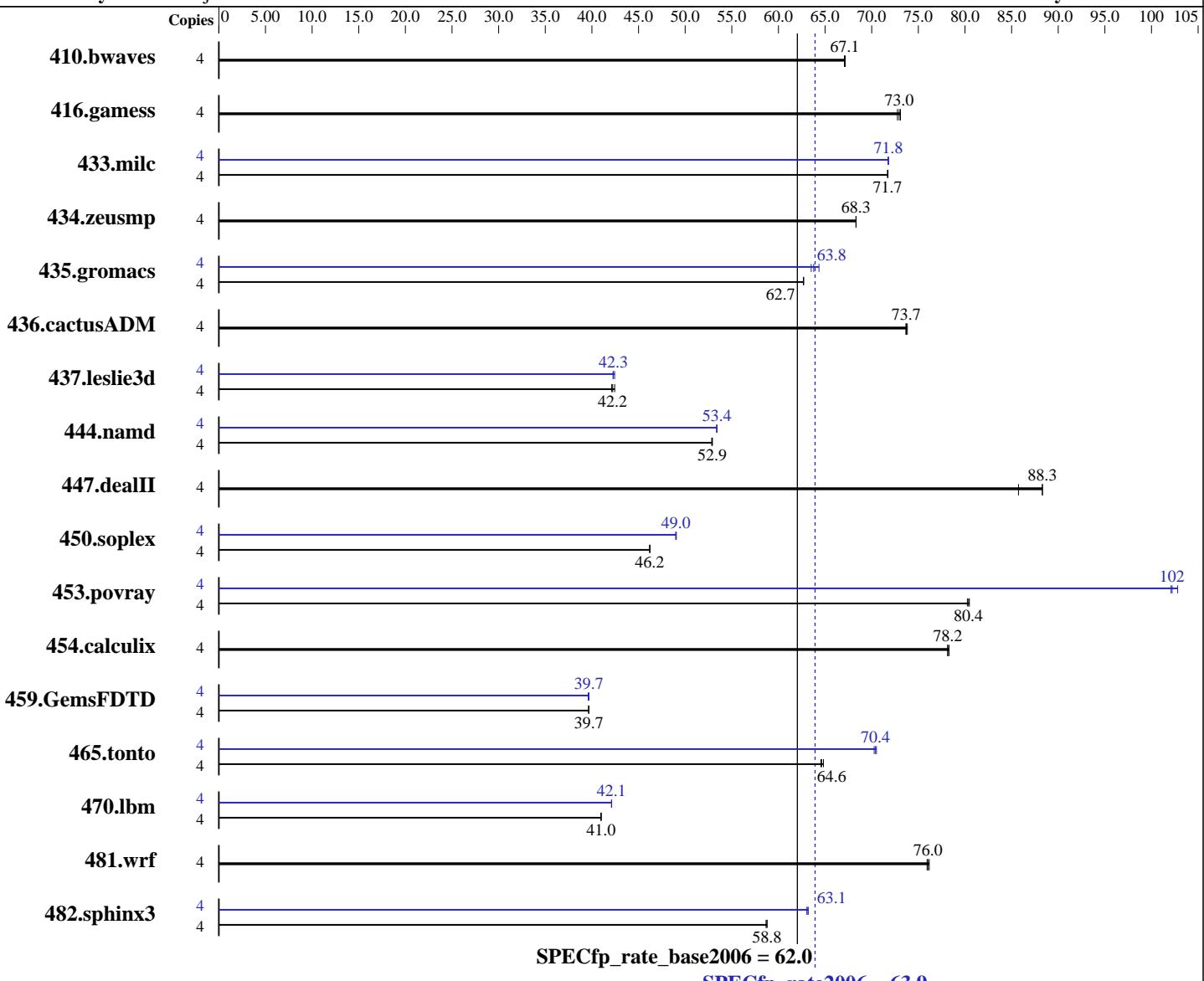
Test date: Aug-2010

Test sponsor: Fujitsu

Hardware Availability: Jul-2010

Tested by: Fujitsu

Software Availability: Jan-2010



Hardware

CPU Name: Intel Xeon E5507
CPU Characteristics:
CPU MHz: 2267
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
CPU(s) orderable: 1,2 chips
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), 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: No
File System: ext3
System State: Multi-User Run Level 3

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L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 24 GB (6x4 GB PC3-10600R, 2 rank, CL9-9-9, ECC,
 see add'l detail in notes)
 Disk Subsystem: 1 x SATA, 160 GB, 5.4 krpm
 Other Hardware: None

Base Pointers: 64-bit
 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	4	810	67.1	809	67.2	<u>810</u>	<u>67.1</u>	4	810	67.1	809	67.2	<u>810</u>	<u>67.1</u>		
416.gamess	4	1072	73.1	<u>1074</u>	<u>73.0</u>	1076	72.8	4	1072	73.1	<u>1074</u>	<u>73.0</u>	1076	72.8		
433.milc	4	<u>512</u>	<u>71.7</u>	512	71.7	512	71.7	4	<u>512</u>	<u>71.8</u>	512	71.7	511	71.8		
434.zeusmp	4	<u>533</u>	<u>68.3</u>	533	68.3	533	68.3	4	<u>533</u>	<u>68.3</u>	533	68.3	533	68.3		
435.gromacs	4	455	62.7	456	62.7	<u>456</u>	<u>62.7</u>	4	450	63.5	444	64.3	<u>448</u>	<u>63.8</u>		
436.cactusADM	4	<u>648</u>	<u>73.7</u>	648	73.8	649	73.7	4	<u>648</u>	<u>73.7</u>	648	73.8	<u>649</u>	<u>73.7</u>		
437.leslie3d	4	886	42.4	<u>890</u>	<u>42.2</u>	893	42.1	4	886	42.4	890	42.3	<u>889</u>	<u>42.3</u>		
444.namd	4	606	52.9	607	52.8	<u>606</u>	<u>52.9</u>	4	<u>601</u>	<u>53.4</u>	601	53.4	601	53.4		
447.dealII	4	518	88.3	534	85.7	<u>518</u>	<u>88.3</u>	4	518	88.3	534	85.7	<u>518</u>	<u>88.3</u>		
450.soplex	4	722	46.2	<u>722</u>	<u>46.2</u>	722	46.2	4	680	49.1	<u>681</u>	<u>49.0</u>	681	49.0		
453.povray	4	<u>265</u>	<u>80.4</u>	265	80.3	264	80.5	4	207	103	208	102	<u>208</u>	<u>102</u>		
454.calculix	4	422	78.3	<u>422</u>	<u>78.2</u>	422	78.1	4	422	78.3	<u>422</u>	<u>78.2</u>	422	78.1		
459.GemsFDTD	4	<u>1070</u>	<u>39.7</u>	1070	39.6	1070	39.7	4	1072	39.6	1069	39.7	<u>1069</u>	<u>39.7</u>		
465.tonto	4	607	64.8	<u>609</u>	<u>64.6</u>	610	64.6	4	558	70.5	560	70.3	<u>559</u>	<u>70.4</u>		
470.lbm	4	1342	41.0	<u>1341</u>	<u>41.0</u>	1341	41.0	4	1306	42.1	<u>1305</u>	<u>42.1</u>	1305	42.1		
481.wrf	4	<u>588</u>	<u>76.0</u>	587	76.2	588	75.9	4	<u>588</u>	<u>76.0</u>	587	76.2	588	75.9		
482.sphinx3	4	<u>1327</u>	<u>58.8</u>	1329	58.7	1326	58.8	4	1234	63.2	<u>1236</u>	<u>63.1</u>	1236	63.1		

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

Platform Notes

The system automatically configures the memory to run at 800 MHz.
 BIOS configuration:
 Data Reuse Optimization = Disable



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General Notes

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.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

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

Fortran benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

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Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

-xSSE4.2 -ipo -O3 -no-prec-div -static

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:

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Peak Optimization Flags (Continued)

433.milc: -xsse4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -fno-alias -opt-prefetch

470.lbm: -xsse4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -opt-malloc-options=3 -ansi-alias -auto-ilp32

482.sphinx3: -xsse4 .2 -ipo -O3 -no-prec-div -static -unroll2

C++ benchmarks:

444.namd: -xsse4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -fno-alias -auto-ilp32

447.dealII: basepeak = yes

450.soplex: -xsse4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -opt-malloc-options=3

453.povray: -xsse4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -unroll14 -ansi-alias

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: -xsse4 .2 -ipo -O3 -no-prec-div -static

459.GemsFDTD: -xsse4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -unroll2 -Ob0

465.tonto: -xsse4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -unroll14 -auto -inline-calloc -opt-malloc-options=3

Benchmarks using both Fortran and C:

435.gromacs: -xsse4 .2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
 -no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
 -opt-prefetch -auto-ilp32

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Peak Optimization Flags (Continued)

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

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.20100708.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.20100708.xml>

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Tested with SPEC CPU2006 v1.1.

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