



SPEC[®] CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp[®]_rate2006 = 42.5

CELSIUS R640, Intel Xeon 5160 processor

SPECfp_rate_base2006 = 41.4

CPU2006 license: 22

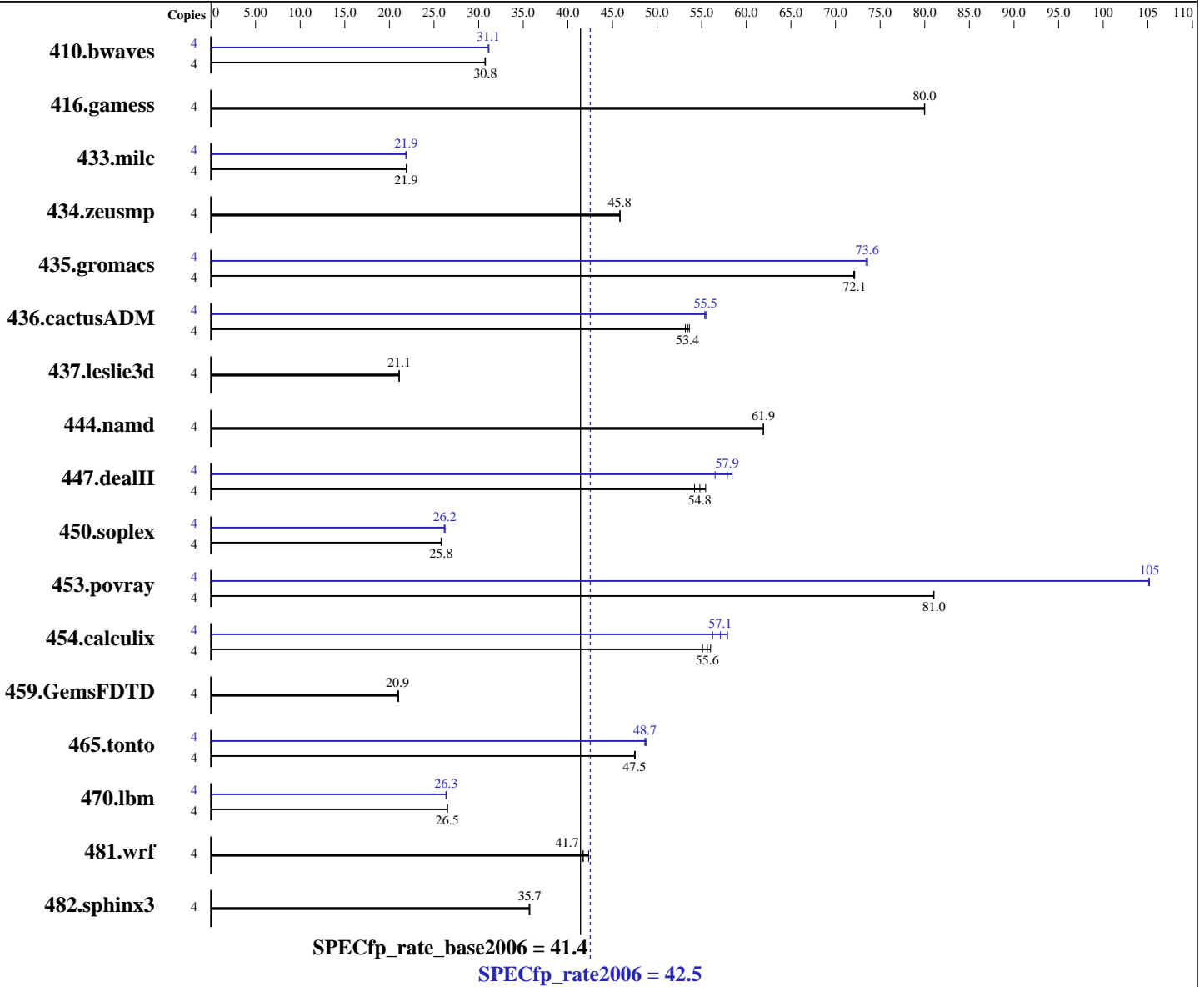
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2006

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: Dual Core, 3.0 GHz
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip

Continued on next page

Software

Operating System: Windows XP Professional x64 Edition
 Compiler: Intel C++ Compiler for EM64T version 9.1
 - Build 20061104, Package-ID W_CC_C_9.1.033
 Intel Fortran Compiler for EM64T version 9.1
 - Build 20061104, Package-ID W_FC_C_9.1.033
 Microsoft Visual Studio 2005 (libr. & linker)
 Auto Parallel: No
 File System: NTFS
 System State: Default

Continued on next page



SPEC CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = **42.5**

CELSIUS R640, Intel Xeon 5160 processor

SPECfp_rate_base2006 = **41.4**

CPU2006 license: 22

Test date: Nov-2006

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Sep-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2006

Hardware (Continued)

L3 Cache: None
 Other Cache: None
 Memory: 8 GB (8x1 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: SATA II 7200 rpm
 Other Hardware: None

Software (Continued)

Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: Smart Heap Library, Version 8

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	4	1767	30.8	<u>1767</u>	<u>30.8</u>	1770	30.7	4	1744	31.2	1748	31.1	<u>1748</u>	<u>31.1</u>		
416.gamess	4	<u>979</u>	<u>80.0</u>	980	80.0	979	80.0	4	<u>979</u>	<u>80.0</u>	980	80.0	979	80.0		
433.milc	4	1678	21.9	<u>1678</u>	<u>21.9</u>	1677	21.9	4	1679	21.9	<u>1679</u>	<u>21.9</u>	1681	21.8		
434.zeusmp	4	794	45.8	<u>794</u>	<u>45.8</u>	794	45.9	4	794	45.8	<u>794</u>	<u>45.8</u>	794	45.9		
435.gromacs	4	396	72.1	<u>396</u>	<u>72.1</u>	396	72.0	4	389	73.4	388	73.6	<u>388</u>	<u>73.6</u>		
436.cactusADM	4	892	53.6	<u>895</u>	<u>53.4</u>	899	53.2	4	<u>862</u>	<u>55.5</u>	864	55.3	862	55.5		
437.leslie3d	4	1782	21.1	<u>1783</u>	<u>21.1</u>	1783	21.1	4	1782	21.1	<u>1783</u>	<u>21.1</u>	1783	21.1		
444.namd	4	<u>518</u>	<u>61.9</u>	518	61.9	518	61.9	4	<u>518</u>	<u>61.9</u>	518	61.9	518	61.9		
447.dealII	4	844	54.2	<u>835</u>	<u>54.8</u>	825	55.4	4	<u>791</u>	<u>57.9</u>	783	58.4	810	56.5		
450.soplex	4	1294	25.8	<u>1292</u>	<u>25.8</u>	1291	25.8	4	1276	26.1	1272	26.2	<u>1272</u>	<u>26.2</u>		
453.povray	4	263	81.0	<u>263</u>	<u>81.0</u>	263	81.0	4	202	105	202	105	<u>202</u>	<u>105</u>		
454.calculix	4	589	56.0	599	55.1	<u>593</u>	<u>55.6</u>	4	570	57.9	<u>578</u>	<u>57.1</u>	587	56.2		
459.GemsFDTD	4	2018	21.0	<u>2028</u>	<u>20.9</u>	2028	20.9	4	2018	21.0	<u>2028</u>	<u>20.9</u>	2028	20.9		
465.tonto	4	828	47.6	829	47.5	<u>829</u>	<u>47.5</u>	4	807	48.8	809	48.6	<u>809</u>	<u>48.7</u>		
470.lbm	4	2074	26.5	<u>2074</u>	<u>26.5</u>	2075	26.5	4	2085	26.4	2086	26.3	<u>2086</u>	<u>26.3</u>		
481.wrf	4	<u>1071</u>	<u>41.7</u>	1071	41.7	1056	42.3	4	<u>1071</u>	<u>41.7</u>	1071	41.7	1056	42.3		
482.sphinx3	4	2186	35.7	2182	35.7	<u>2182</u>	<u>35.7</u>	4	2186	35.7	2182	35.7	<u>2182</u>	<u>35.7</u>		

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

General Notes

For information about Fujitsu Siemens Computers in your country please see:
<http://www.fujitsu-siemens.com/countries>

Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8

Continued on next page



SPEC CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 42.5

CELSIUS R640, Intel Xeon 5160 processor

SPECfp_rate_base2006 = 41.4

CPU2006 license: 22

Test date: Nov-2006

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Sep-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2006

Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -Qc99 ifort

Portability Flags

410.bwaves: -DSPEC_CPU_P64
416.gamess: -DSPEC_CPU_P64
433.milc: -D_Complex= -DSPEC_CPU_P64
434.zeusmp: -DSPEC_CPU_P64
435.gromacs: -D_Complex= -DSPEC_CPU_P64
436.cactusADM: -D_Complex= -DSPEC_CPU_P64 -Qlowercase /assume:underscore
437.leslie3d: -DSPEC_CPU_P64
444.namd: -DSPEC_CPU_P64 /TP
447.dealII: -D_Complex= -DSPEC_CPU_P64 -DBOOST_NO_INTRINSIC_WCHAR_T
-DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
450.soplex: -DSPEC_CPU_P64
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
454.calculix: -D_Complex= -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER
-Qlowercase
459.GemsFDTD: -DSPEC_CPU_P64
465.tonto: -DSPEC_CPU_P64
470.lbm: -D_Complex= -DSPEC_CPU_P64
481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
482.sphinx3: -D_Complex= -DSPEC_CPU_P64

Base Optimization Flags

C benchmarks:

-fast -F950000000 shlw32M.lib

C++ benchmarks:

-fast -Qcxx-features -F950000000 shlw32M.lib

Fortran benchmarks:

-fast -F950000000 shlw32M.lib

Benchmarks using both Fortran and C:

-fast -F950000000 shlw32M.lib



SPEC CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 42.5

CELSIUS R640, Intel Xeon 5160 processor

SPECfp_rate_base2006 = 41.4

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2006

Hardware Availability: Sep-2006

Software Availability: Nov-2006

Peak Optimization Flags

C benchmarks:

433.milc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000
shlW32M.lib

470.lbm: Same as 433.milc

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
-F950000000 shlW32M.lib

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000
shlW32M.lib

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000
shlW32M.lib

436.cactusADM: Same as 435.gromacs

454.calculix: Same as 435.gromacs

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/CPU2006_flags.20061213.html



SPEC CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 42.5

CELSIUS R640, Intel Xeon 5160 processor

SPECfp_rate_base2006 = 41.4

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2006

Hardware Availability: Sep-2006

Software Availability: Nov-2006

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/CPU2006_flags.20061213.xml

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.

Tested with SPEC CPU2006 v1.0.
Report generated on Sat Dec 15 22:04:35 2007 by SPEC CPU2006 PS/PDF formatter v5614.