



SPEC[®] CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp[®]_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp_rate_base2006 = 49.8

CPU2006 license: 22

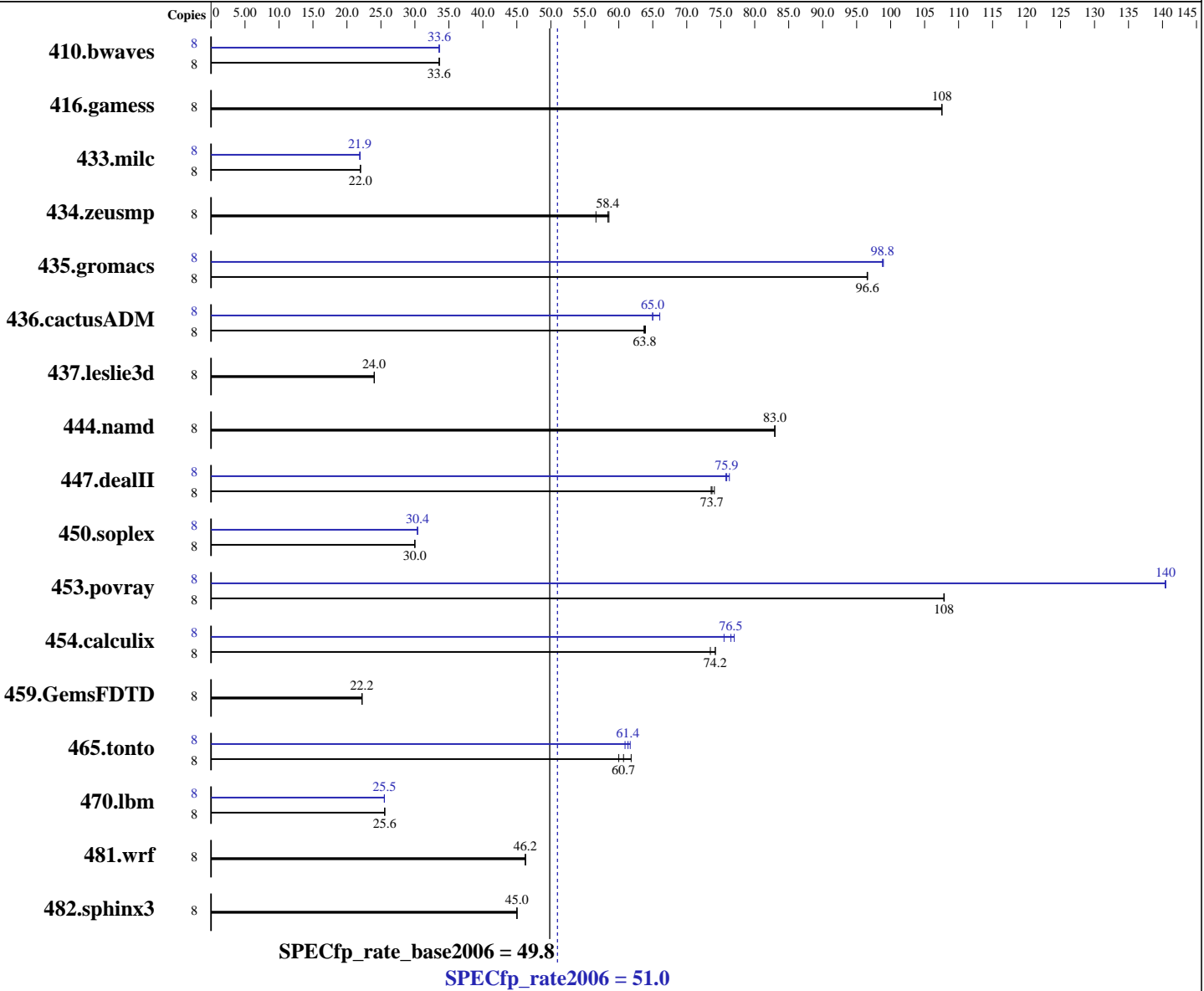
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon E5335
 CPU Characteristics: E5335
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

Continued on next page

Software

Operating System: Windows XP, 64 bit Edition
 Compiler: Intel C++ Compiler for EM64T-based applications
 - version 9.1, Build 20061104
 Intel Fortran Compiler for EM64T-based applications
 - version 9.1, Build 20061104
 Microsoft Visual Studio 2005 (for libraries)
 Auto Parallel: No
 File System: NTFS

Continued on next page



SPEC CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp_rate_base2006 = 49.8

CPU2006 license: 22

Test date: Feb-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Nov-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2006

Hardware (Continued)

Software (Continued)

L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: SATA II 7200 rpm
 Other Hardware: None

System State: Default
 Base Pointers: 64-bit
 Peak Pointers: 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	8	<u>3238</u>	<u>33.6</u>	3239	33.6	3235	33.6	8	<u>3236</u>	<u>33.6</u>	3241	33.5	3236	33.6		
416.gamess	8	1457	108	1456	108	<u>1456</u>	<u>108</u>	8	1457	108	1456	108	<u>1456</u>	<u>108</u>		
433.milc	8	3341	22.0	<u>3340</u>	<u>22.0</u>	3340	22.0	8	3349	21.9	<u>3352</u>	<u>21.9</u>	3356	21.9		
434.zeusmp	8	<u>1247</u>	<u>58.4</u>	1285	56.6	1243	58.6	8	<u>1247</u>	<u>58.4</u>	1285	56.6	1243	58.6		
435.gromacs	8	591	96.6	592	96.5	<u>591</u>	<u>96.6</u>	8	577	98.9	578	98.8	<u>578</u>	<u>98.8</u>		
436.cactusADM	8	<u>1498</u>	<u>63.8</u>	1496	63.9	1501	63.7	8	<u>1471</u>	<u>65.0</u>	1448	66.0	1472	65.0		
437.leslie3d	8	<u>3131</u>	<u>24.0</u>	3130	24.0	3131	24.0	8	<u>3131</u>	<u>24.0</u>	3130	24.0	3131	24.0		
444.namd	8	773	83.0	<u>773</u>	<u>83.0</u>	774	82.9	8	773	83.0	<u>773</u>	<u>83.0</u>	774	82.9		
447.dealII	8	1236	74.1	1244	73.6	<u>1242</u>	<u>73.7</u>	8	1200	76.3	1208	75.8	<u>1206</u>	<u>75.9</u>		
450.soplex	8	2226	30.0	<u>2225</u>	<u>30.0</u>	2224	30.0	8	2195	30.4	2197	30.4	<u>2196</u>	<u>30.4</u>		
453.povray	8	<u>395</u>	<u>108</u>	395	108	394	108	8	303	140	<u>303</u>	<u>140</u>	303	140		
454.calculix	8	<u>890</u>	<u>74.2</u>	889	74.2	898	73.5	8	857	77.0	874	75.5	<u>863</u>	<u>76.5</u>		
459.GemsFDTD	8	3822	22.2	3817	22.2	<u>3822</u>	<u>22.2</u>	8	3822	22.2	3817	22.2	<u>3822</u>	<u>22.2</u>		
465.tonto	8	1312	60.0	1273	61.8	<u>1297</u>	<u>60.7</u>	8	1292	60.9	1276	61.7	<u>1283</u>	<u>61.4</u>		
470.lbm	8	4302	25.6	<u>4301</u>	<u>25.6</u>	4301	25.6	8	4309	25.5	4310	25.5	<u>4309</u>	<u>25.5</u>		
481.wrf	8	<u>1932</u>	<u>46.2</u>	1932	46.2	1931	46.3	8	<u>1932</u>	<u>46.2</u>	1932	46.2	1931	46.3		
482.sphinx3	8	<u>3465</u>	<u>45.0</u>	3461	45.0	3466	45.0	8	<u>3465</u>	<u>45.0</u>	3461	45.0	3466	45.0		

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

Platform Notes

BIOS default settings have been used, except:
High Bandwith Option Enabled

General Notes

'start /b /wait /affinity' command is used to bind CPU(s) to processes

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



SPEC CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp_rate_base2006 = 49.8

CPU2006 license: 22

Test date: Feb-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Nov-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2006

Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

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

C++ benchmarks:

-fast -Qcxx-features -F950000000

Fortran benchmarks:

-fast -F950000000

Continued on next page



SPEC CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp_rate_base2006 = 49.8

CPU2006 license: 22

Test date: Feb-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Nov-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2006

Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

-fast -F950000000

Peak Optimization Flags

C benchmarks:

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

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

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

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

436.cactusADM: Same as 435.gromacs

454.calculix: Same as 435.gromacs

481.wrf: basepeak = yes



SPEC CFP2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp_rate_base2006 = 49.8

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20070307.00.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20070307.00.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 Sun Dec 16 00:05:09 2007 by SPEC CPU2006 PS/PDF formatter v5614.