



SPEC[®] CFP2006 Result

Copyright 2006-2009 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp[®]_rate2006 = 57.4

CELSIUS R640, Intel Xeon X5355 processor

SPECfp_rate_base2006 = 55.9

CPU2006 license: 22

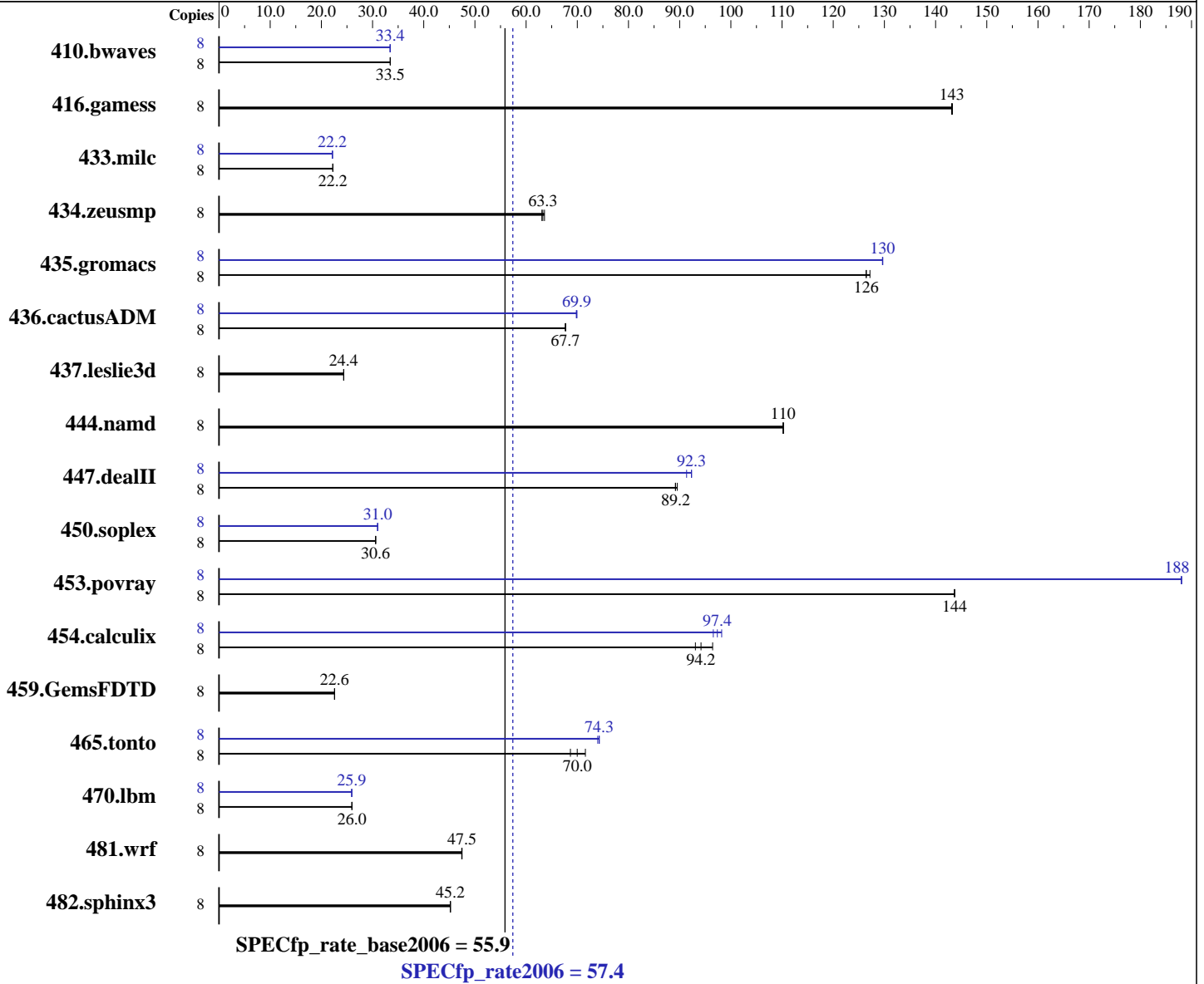
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: Dual Core, 2.66 GHz
 CPU MHz: 2667
 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 2006-2009 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 57.4

CELSIUS R640, Intel Xeon X5355 processor

SPECfp_rate_base2006 = 55.9

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)

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

Software (Continued)

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>3249</u>	<u>33.5</u>	3251	33.4	3247	33.5	8	<u>3251</u>	<u>33.4</u>	3253	33.4	3249	33.5
416.gamess	8	1094	143	<u>1094</u>	<u>143</u>	1093	143	8	1094	143	<u>1094</u>	<u>143</u>	1093	143
433.milc	8	3300	22.3	3303	22.2	<u>3301</u>	<u>22.2</u>	8	3311	22.2	<u>3315</u>	<u>22.2</u>	3315	22.2
434.zeusmp	8	1154	63.1	<u>1151</u>	<u>63.3</u>	1145	63.6	8	1154	63.1	<u>1151</u>	<u>63.3</u>	1145	63.6
435.gromacs	8	<u>452</u>	<u>126</u>	449	127	452	126	8	441	130	<u>441</u>	<u>130</u>	440	130
436.cactusADM	8	1411	67.7	1413	67.6	<u>1412</u>	<u>67.7</u>	8	<u>1368</u>	<u>69.9</u>	1370	69.8	1367	69.9
437.leslie3d	8	<u>3086</u>	<u>24.4</u>	3086	24.4	3086	24.4	8	<u>3086</u>	<u>24.4</u>	3086	24.4	3086	24.4
444.namd	8	582	110	<u>582</u>	<u>110</u>	582	110	8	582	110	<u>582</u>	<u>110</u>	582	110
447.dealII	8	1022	89.5	1026	89.2	<u>1026</u>	<u>89.2</u>	8	991	92.3	1002	91.4	<u>992</u>	<u>92.3</u>
450.soplex	8	<u>2180</u>	<u>30.6</u>	2180	30.6	2180	30.6	8	<u>2152</u>	<u>31.0</u>	2152	31.0	2153	31.0
453.povray	8	296	144	296	144	<u>296</u>	<u>144</u>	8	226	188	<u>226</u>	<u>188</u>	226	188
454.calculix	8	709	93.1	<u>701</u>	<u>94.2</u>	684	96.4	8	672	98.2	<u>678</u>	<u>97.4</u>	683	96.6
459.GemsFDTD	8	<u>3759</u>	<u>22.6</u>	3760	22.6	3758	22.6	8	<u>3759</u>	<u>22.6</u>	3760	22.6	3758	22.6
465.tonto	8	<u>1125</u>	<u>70.0</u>	1100	71.6	1147	68.7	8	1059	74.3	1064	74.0	<u>1060</u>	<u>74.3</u>
470.lbm	8	4232	26.0	<u>4232</u>	<u>26.0</u>	4232	26.0	8	4239	25.9	4238	25.9	<u>4238</u>	<u>25.9</u>
481.wrf	8	<u>1882</u>	<u>47.5</u>	1884	47.4	1882	47.5	8	<u>1882</u>	<u>47.5</u>	1884	47.4	1882	47.5
482.sphinx3	8	<u>3449</u>	<u>45.2</u>	3451	45.2	3447	45.2	8	<u>3449</u>	<u>45.2</u>	3451	45.2	3447	45.2

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 2006-2009 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 57.4

CELSIUS R640, Intel Xeon X5355 processor

SPECfp_rate_base2006 = 55.9

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

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 2006-2009 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 57.4

CELSIUS R640, Intel Xeon X5355 processor

SPECfp_rate_base2006 = 55.9

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

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 2006-2009 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECfp_rate2006 = 57.4

CELSIUS R640, Intel Xeon X5355 processor

SPECfp_rate_base2006 = 55.9

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.20090714.20.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.20.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 Wed Jul 15 12:53:11 2009 by SPEC CPU2006 PS/PDF formatter v6323.