



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®_rate2006 = 51.0

CELSIUS R640, Intel Xeon E5335 processor

SPECfp_rate_base2006 = 49.8

CPU2006 license: 22

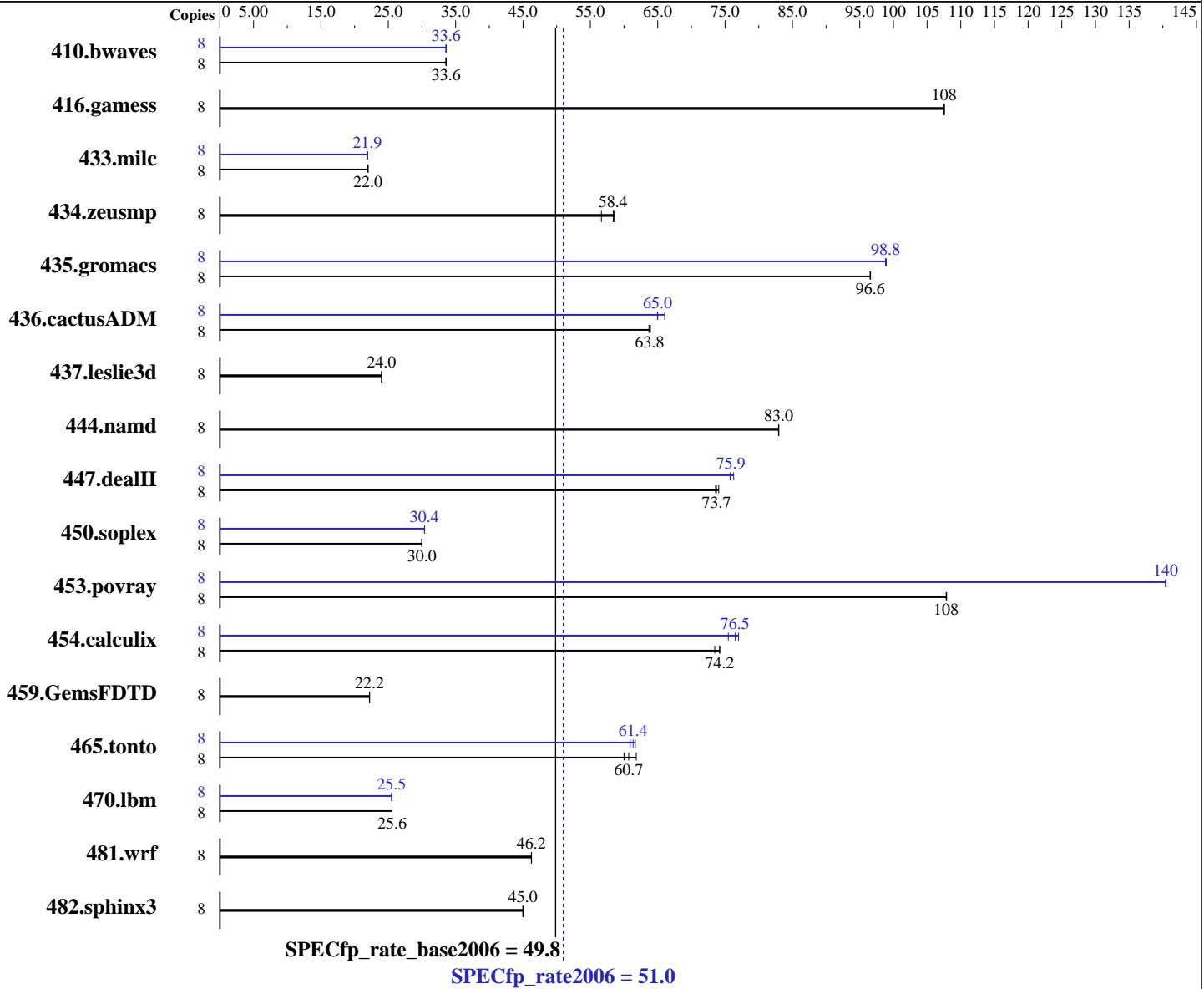
Test sponsor: Fujitsu Siemens Computers

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

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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

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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

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Base Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -Qc99 ifort

Base 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

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Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

-fast -F950000000

Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -Qc99 ifort

Peak Portability Flags

Same as Base Portability Flags

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:

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Peak Optimization Flags (Continued)

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

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

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

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