



# SPEC® CFP2006 Result

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## Fujitsu Siemens Computers

**SPECfp®2006 = 14.0**

### CELSIUS R540, Intel Xeon processor E5335

**SPECfp\_base2006 = 13.6**

CPU2006 license: 22

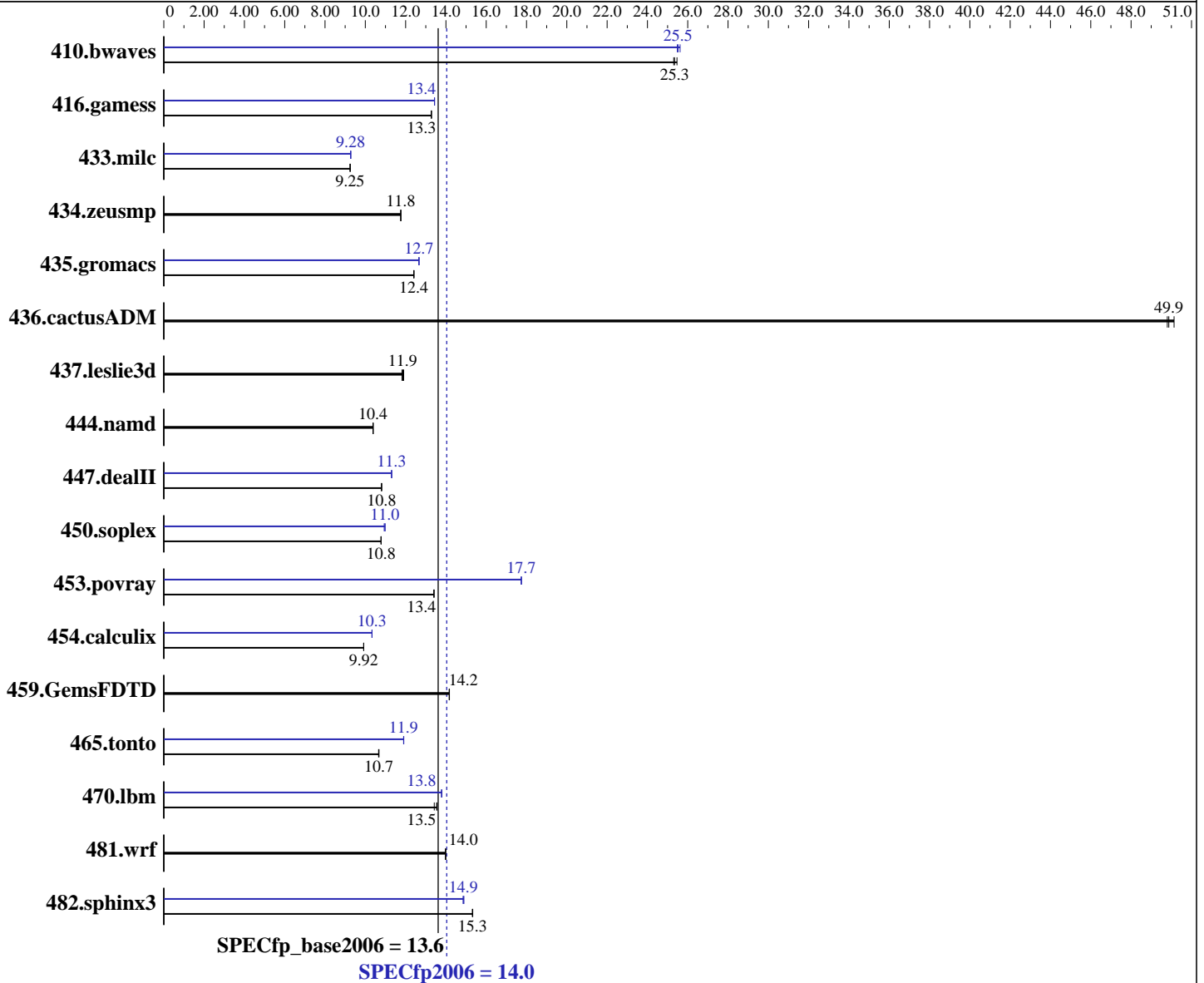
Test sponsor: Fujitsu Siemens Computers

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: Yes  
 File System: NTFS

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## Hardware (Continued)

L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (4x2 GB DDR2 5300F, 2 rank, CL5-5-5,with 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	<b><u>536</u></b>	<b><u>25.3</u></b>	537	25.3	534	25.5	530	25.6	<b><u>533</u></b>	<b><u>25.5</u></b>	533	25.5
416.gamess	<b><u>1475</u></b>	<b><u>13.3</u></b>	1475	13.3	1475	13.3	1457	13.4	<b><u>1457</u></b>	<b><u>13.4</u></b>	1457	13.4
433.milc	992	9.26	<b><u>993</u></b>	<b><u>9.25</u></b>	993	9.24	990	9.27	989	9.28	<b><u>990</u></b>	<b><u>9.28</u></b>
434.zeusmp	774	11.8	<b><u>774</u></b>	<b><u>11.8</u></b>	774	11.8	774	11.8	<b><u>774</u></b>	<b><u>11.8</u></b>	774	11.8
435.gromacs	575	12.4	<b><u>575</u></b>	<b><u>12.4</u></b>	575	12.4	564	12.7	<b><u>564</u></b>	<b><u>12.7</u></b>	564	12.7
436.cactusADM	238	50.1	240	49.8	<b><u>240</u></b>	<b><u>49.9</u></b>	238	50.1	240	49.8	<b><u>240</u></b>	<b><u>49.9</u></b>
437.leslie3d	<b><u>792</u></b>	<b><u>11.9</u></b>	790	11.9	795	11.8	<b><u>792</u></b>	<b><u>11.9</u></b>	790	11.9	795	11.8
444.namd	772	10.4	<b><u>772</u></b>	<b><u>10.4</u></b>	772	10.4	772	10.4	<b><u>772</u></b>	<b><u>10.4</u></b>	772	10.4
447.dealII	1059	10.8	<b><u>1059</u></b>	<b><u>10.8</u></b>	1059	10.8	1012	11.3	1012	11.3	<b><u>1012</u></b>	<b><u>11.3</u></b>
450.soplex	773	10.8	<b><u>773</u></b>	<b><u>10.8</u></b>	774	10.8	760	11.0	<b><u>760</u></b>	<b><u>11.0</u></b>	763	10.9
453.povray	397	13.4	<b><u>397</u></b>	<b><u>13.4</u></b>	397	13.4	300	17.7	<b><u>300</u></b>	<b><u>17.7</u></b>	300	17.7
454.calculix	832	9.92	<b><u>832</u></b>	<b><u>9.92</u></b>	832	9.92	<b><u>798</u></b>	<b><u>10.3</u></b>	799	10.3	798	10.3
459.GemsFDTD	<b><u>749</u></b>	<b><u>14.2</u></b>	748	14.2	749	14.2	<b><u>749</u></b>	<b><u>14.2</u></b>	748	14.2	749	14.2
465.tonto	<b><u>922</u></b>	<b><u>10.7</u></b>	922	10.7	923	10.7	<b><u>827</u></b>	<b><u>11.9</u></b>	827	11.9	826	11.9
470.lbm	1024	13.4	1014	13.5	<b><u>1014</u></b>	<b><u>13.5</u></b>	997	13.8	996	13.8	<b><u>997</u></b>	<b><u>13.8</u></b>
481.wrf	799	14.0	799	14.0	<b><u>799</u></b>	<b><u>14.0</u></b>	799	14.0	799	14.0	<b><u>799</u></b>	<b><u>14.0</u></b>
482.sphinx3	1273	15.3	<b><u>1272</u></b>	<b><u>15.3</u></b>	1271	15.3	1309	14.9	<b><u>1311</u></b>	<b><u>14.9</u></b>	1312	14.9

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:  
 Snoop Filter Enabled  
 Adjacent Cache Line Prefetch Enabled

## General Notes

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



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## 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 -Qparallel -F950000000

C++ benchmarks:

-fast -Qparallel -Qcxx-features -F950000000

Fortran benchmarks:

-fast -Qparallel -F950000000

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## Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

-fast -Qparallel -F950000000

## Peak Optimization Flags

C benchmarks:

-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F950000000

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 -Qparallel  
-F950000000

416.gamess: -fast -F950000000

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: basepeak = yes

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.20090715.20.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.20.html)



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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090715.20.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.20.xml)

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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