



# SPEC<sup>®</sup> CFP2006 Result

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## Fujitsu Siemens Computers

**SPECfp<sup>®</sup>2006 = 15.6**

CELSIUS H250, Intel Core 2 Duo T7700 processor

**SPECfp\_base2006 = 15.4**

CPU2006 license: 22

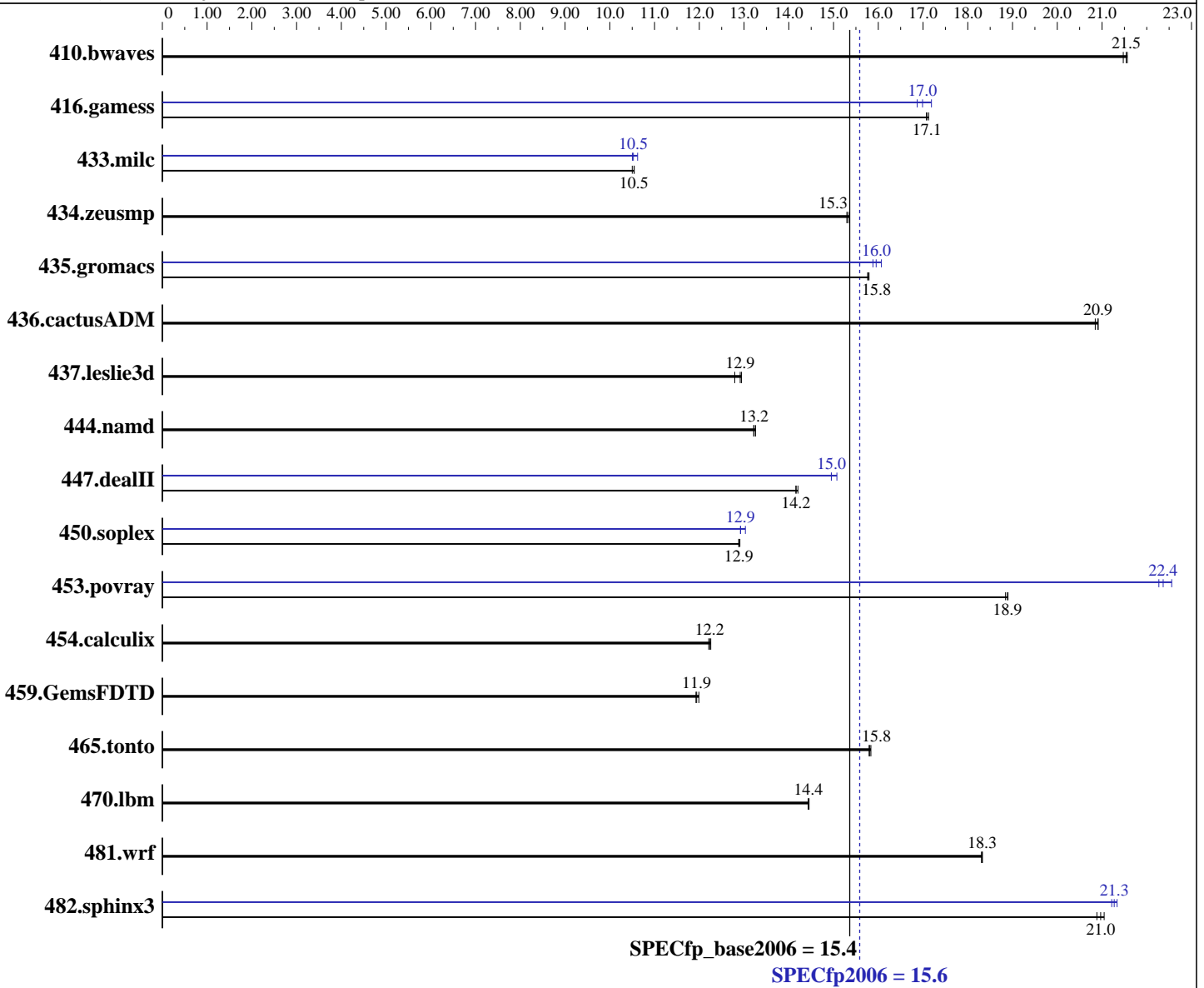
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Aug-2007

Hardware Availability: Jul-2007

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Core 2 Duo T7700  
 CPU Characteristics:  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip

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### Software

Operating System: Windows Vista Ultimate, 64 bit Version

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### Hardware (Continued)

L3 Cache: None  
 Other Cache: None  
 Memory: 2 GB (2x1 GB 667 MHz CL5 DDR2 SDRAM)  
 Disk Subsystem: 1 x 80 GB SATA 7200 RPM  
 Other Hardware: None

### Software (Continued)

Compiler: Intel C++ Compiler  
 . for applications running on Intel 64,  
 . Version 10.0.026, Build 20070613  
 Intel Visual Fortran Compiler  
 . for applications running on Intel 64,  
 . Version 10.0.026, Build 20070613  
 Microsoft Visual Studio 2005 with SP1  
 . (for libraries)

Auto Parallel: Yes  
 File System: NTFS  
 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	633	21.5	<b>631</b>	<b>21.5</b>	630	21.6	633	21.5	<b>631</b>	<b>21.5</b>	630	21.6
416.gamess	1147	17.1	<b>1146</b>	<b>17.1</b>	1143	17.1	1139	17.2	1161	16.9	<b>1153</b>	<b>17.0</b>
433.milc	874	10.5	870	10.5	<b>871</b>	<b>10.5</b>	864	10.6	<b>872</b>	<b>10.5</b>	874	10.5
434.zeusmp	595	15.3	<b>594</b>	<b>15.3</b>	593	15.4	595	15.3	<b>594</b>	<b>15.3</b>	593	15.4
435.gromacs	453	15.8	<b>453</b>	<b>15.8</b>	452	15.8	444	16.1	450	15.9	<b>448</b>	<b>16.0</b>
436.cactusADM	573	20.8	<b>571</b>	<b>20.9</b>	571	20.9	573	20.8	<b>571</b>	<b>20.9</b>	571	20.9
437.leslie3d	735	12.8	726	12.9	<b>728</b>	<b>12.9</b>	735	12.8	726	12.9	<b>728</b>	<b>12.9</b>
444.namd	<b>606</b>	<b>13.2</b>	607	13.2	605	13.3	<b>606</b>	<b>13.2</b>	607	13.2	605	13.3
447.dealII	<b>808</b>	<b>14.2</b>	808	14.2	805	14.2	759	15.1	<b>765</b>	<b>15.0</b>	765	15.0
450.soplex	646	12.9	647	12.9	<b>647</b>	<b>12.9</b>	640	13.0	646	12.9	<b>645</b>	<b>12.9</b>
453.povray	282	18.9	282	18.8	<b>282</b>	<b>18.9</b>	236	22.6	<b>238</b>	<b>22.4</b>	239	22.3
454.calculix	<b>674</b>	<b>12.2</b>	676	12.2	673	12.3	<b>674</b>	<b>12.2</b>	676	12.2	673	12.3
459.GemsFDTD	885	12.0	<b>889</b>	<b>11.9</b>	890	11.9	885	12.0	<b>889</b>	<b>11.9</b>	890	11.9
465.tonto	621	15.8	623	15.8	<b>622</b>	<b>15.8</b>	621	15.8	623	15.8	<b>622</b>	<b>15.8</b>
470.lbm	951	14.5	<b>952</b>	<b>14.4</b>	952	14.4	951	14.5	<b>952</b>	<b>14.4</b>	952	14.4
481.wrf	<b>610</b>	<b>18.3</b>	610	18.3	609	18.3	<b>610</b>	<b>18.3</b>	610	18.3	609	18.3
482.sphinx3	933	20.9	<b>929</b>	<b>21.0</b>	926	21.0	919	21.2	<b>916</b>	<b>21.3</b>	913	21.3

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.



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## 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

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: -DSPEC\_CPU\_P64  
434.zeusmp: -DSPEC\_CPU\_P64  
435.gromacs: -DSPEC\_CPU\_P64  
436.cactusADM: -DSPEC\_CPU\_P64 -Qlowercase /assume:underscore  
437.leslie3d: -DSPEC\_CPU\_P64  
444.namd: -DSPEC\_CPU\_P64 /TP  
447.dealII: -DSPEC\_CPU\_P64 -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
450.soplex: -DSPEC\_CPU\_P64  
453.povray: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WINDOWS\_ICL  
454.calculix: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_NOZMODIFIER -Qlowercase  
459.GemsFDTD: -DSPEC\_CPU\_P64  
465.tonto: -DSPEC\_CPU\_P64  
470.lbm: -DSPEC\_CPU\_P64  
481.wrf: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WINDOWS\_ICL  
482.sphinx3: -DSPEC\_CPU\_P64

## Base Optimization Flags

C benchmarks:  
-fast -Qparallel -F950000000

C++ benchmarks:  
-fast -Qparallel -Qcxx-features -F950000000

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## Base Optimization Flags (Continued)

Fortran benchmarks:

-fast -Qparallel -F950000000

Benchmarks using both Fortran and C:

-fast -Qparallel -F950000000

## Peak Optimization Flags

C benchmarks:

433.milc: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F950000000

470.lbm: basepeak = yes

482.sphinx3: Same as 433.milc

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: basepeak = yes

416.gamess: -fast -F950000000

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F950000000

436.cactusADM: basepeak = yes

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## Peak Optimization Flags (Continued)

454.calculix: basepeak = yes

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.20090714.32.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.32.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.32.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.32.xml)

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
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