



SPEC® CFP2006 Result

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Fujitsu Siemens Computers

SPECfp®2006 = 20.3

CELSIUS M460, Intel Core 2 Duo E6850 processor

SPECfp_base2006 = 19.3

CPU2006 license: 22

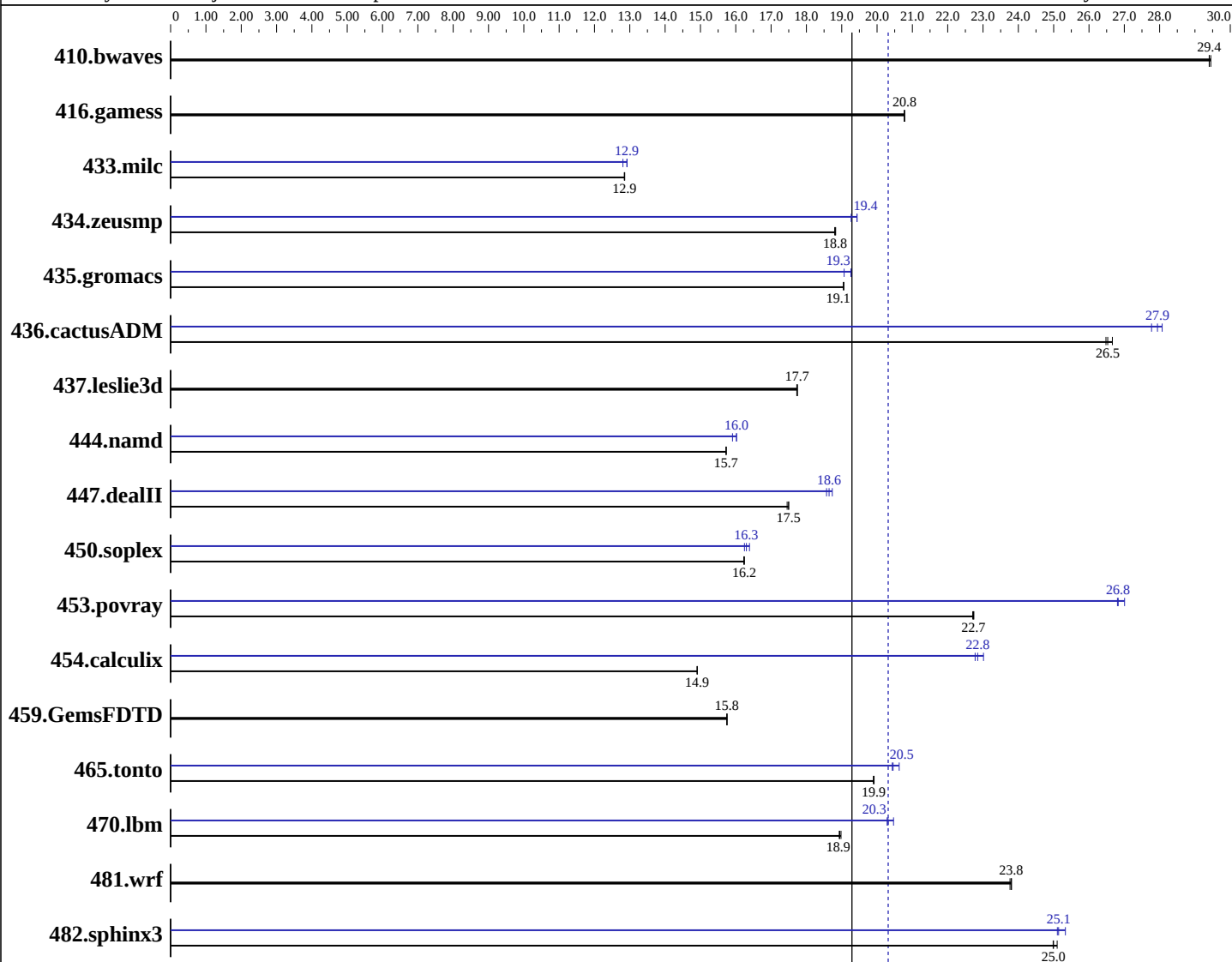
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Dec-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007



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Hardware

CPU Name: Intel Core 2 Duo E6850
CPU Characteristics: 3000
CPU MHz: Integrated
FPU: 2 cores, 1 chip, 2 cores/chip
CPU(s) enabled: 1 chip
CPU(s) orderable: 32 KB I + 32 KB D on chip per core
Primary Cache: 4 MB I+D on chip per chip
Secondary Cache:

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Software

Operating System: Microsoft Windows Vista Ultimate (x64)
Compiler: Intel C++ and Fortran Compilers for Intel64, Version 10.1, Build 20070913
Microsoft Visual Studio 2005 with SP1 (for libraries)
Auto Parallel: Yes
File System: NTFS

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Hardware (Continued)

Software (Continued)

L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1 GB PC2-6400 CL6 SDRAM)
 Disk Subsystem: 1 x 400 GB SATA II 7200 RPM
 Other Hardware: None

System State: Default
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: MicroQuill SmartHeap Library, Version 8.0 (64 bit)

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	461	29.4	<u>462</u>	<u>29.4</u>	462	29.4	461	29.4	<u>462</u>	<u>29.4</u>	462	29.4
416.gamess	942	20.8	<u>942</u>	<u>20.8</u>	943	20.8	942	20.8	<u>942</u>	<u>20.8</u>	943	20.8
433.milc	714	12.9	<u>714</u>	<u>12.9</u>	715	12.8	<u>711</u>	<u>12.9</u>	710	12.9	717	12.8
434.zeusmp	483	18.8	<u>484</u>	<u>18.8</u>	484	18.8	<u>468</u>	<u>19.4</u>	468	19.4	472	19.3
435.gromacs	375	19.0	<u>375</u>	<u>19.1</u>	375	19.1	371	19.3	<u>371</u>	<u>19.3</u>	374	19.1
436.cactusADM	448	26.7	451	26.5	<u>450</u>	<u>26.5</u>	426	28.1	<u>428</u>	<u>27.9</u>	430	27.8
437.leslie3d	530	17.7	530	17.7	<u>530</u>	<u>17.7</u>	530	17.7	530	17.7	<u>530</u>	<u>17.7</u>
444.namd	510	15.7	510	15.7	<u>510</u>	<u>15.7</u>	<u>501</u>	<u>16.0</u>	501	16.0	504	15.9
447.dealII	655	17.5	<u>654</u>	<u>17.5</u>	654	17.5	611	18.7	<u>614</u>	<u>18.6</u>	616	18.6
450.soplex	513	16.2	514	16.2	<u>514</u>	<u>16.2</u>	509	16.4	<u>512</u>	<u>16.3</u>	513	16.2
453.povray	234	22.7	<u>234</u>	<u>22.7</u>	234	22.7	197	27.0	<u>198</u>	<u>26.8</u>	198	26.8
454.calculix	553	14.9	553	14.9	<u>553</u>	<u>14.9</u>	358	23.0	<u>361</u>	<u>22.8</u>	362	22.8
459.GemsFDTD	673	15.8	<u>674</u>	<u>15.8</u>	674	15.7	673	15.8	<u>674</u>	<u>15.8</u>	674	15.7
465.tonto	494	19.9	<u>494</u>	<u>19.9</u>	495	19.9	477	20.6	<u>481</u>	<u>20.5</u>	482	20.4
470.lbm	726	18.9	724	19.0	<u>725</u>	<u>18.9</u>	671	20.5	<u>676</u>	<u>20.3</u>	677	20.3
481.wrf	470	23.8	469	23.8	<u>469</u>	<u>23.8</u>	470	23.8	469	23.8	<u>469</u>	<u>23.8</u>
482.sphinx3	780	25.0	<u>780</u>	<u>25.0</u>	777	25.1	769	25.3	<u>775</u>	<u>25.1</u>	776	25.1

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

Operating System Notes

OMP_NUM_THREADS set to number of cores (default).

Platform Notes

BIOS default settings have been used.

General Notes

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



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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: -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 -F1000000000 libguide40.lib

C++ benchmarks:
-fast -Qparallel -Qcxx-features -F1000000000 libguide40.lib
shlw64M.lib -link -FORCE:MULTIPLE

Fortran benchmarks:
-fast -Qparallel -F1000000000 libguide40.lib

Benchmarks using both Fortran and C:
-fast -Qparallel -F1000000000 libguide40.lib



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Peak Optimization Flags

C benchmarks:

433.milc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F1000000000
libguide40.lib

470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch -F1000000000
libguide40.lib

482.sphinx3: -fast -Qunroll2 -F1000000000 libguide40.lib

C++ benchmarks:

444.namd: -fast -Qcxx-features -Oa -F1000000000 libguide40.lib
shlW64M.lib -link -FORCE:MULTIPLE

447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
-F1000000000 libguide40.lib shlW64M.lib
-link -FORCE:MULTIPLE

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: -O2 -Qunroll0 -QxT -Qscalar-rep- -Qprec-div- -F1000000000
libguide40.lib

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -fast -Qunroll4 -Qauto -F1000000000 libguide40.lib

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F1000000000
libguide40.lib

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qparallel
-Qprefetch -Qunroll2 -F1000000000 libguide40.lib

454.calculix: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll-aggressive -F1000000000 libguide40.lib

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Peak Optimization Flags (Continued)

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.20080124.02.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20080124.02.xml

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

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