SPEC® CFP2006 Result

Fujitsu Siemens Computers

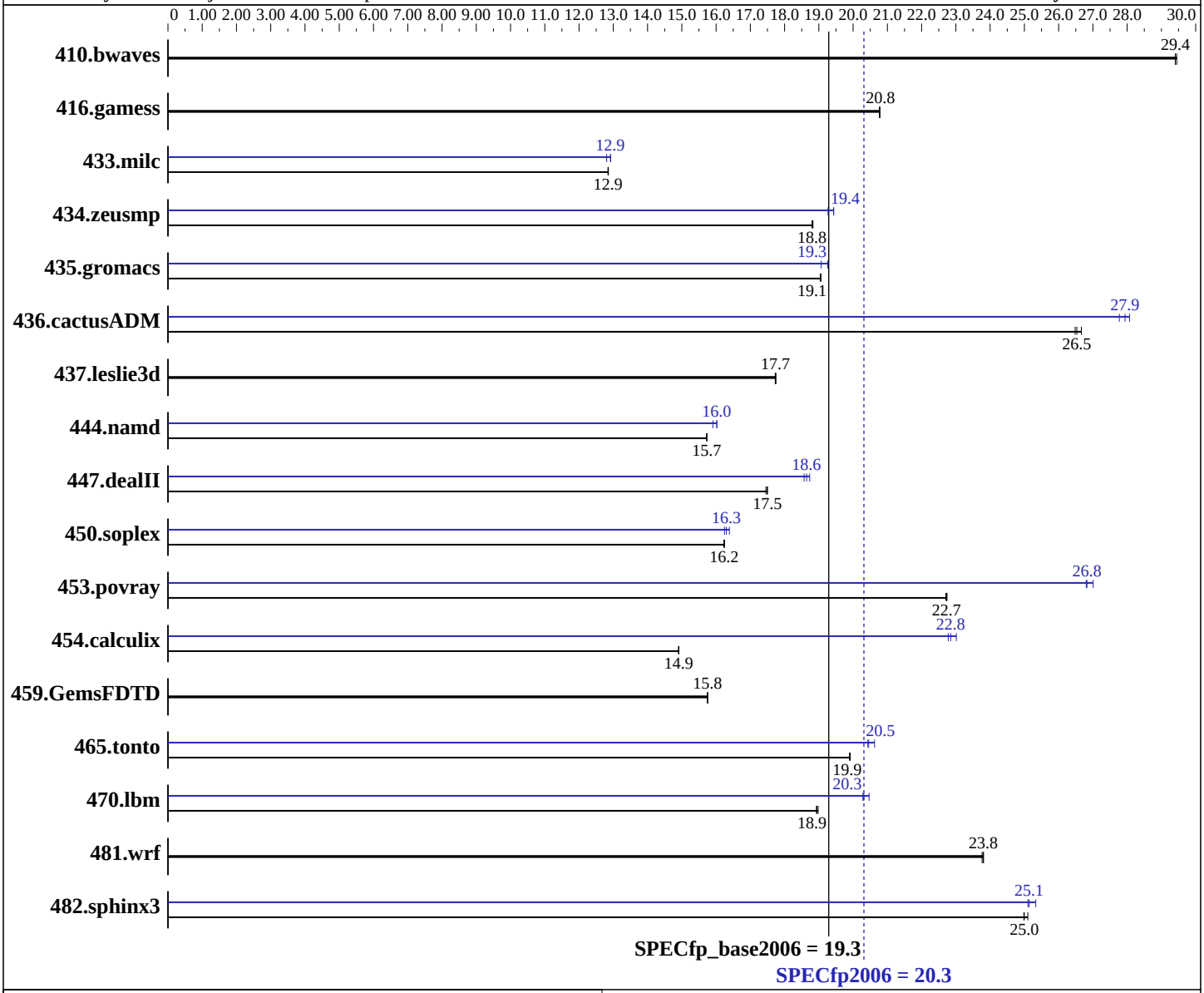
CELSIUS M460, Intel Core 2 Duo E6850 processor

SPECfp®2006 = 20.3

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



Hardware

CPU Name:	Intel Core 2 Duo E6850
CPU Characteristics:	
CPU MHz:	3000
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

Continued on next page

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

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: -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
```

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 -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

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Peak Optimization Flags (Continued)

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

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.20090714.02.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.02.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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