SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

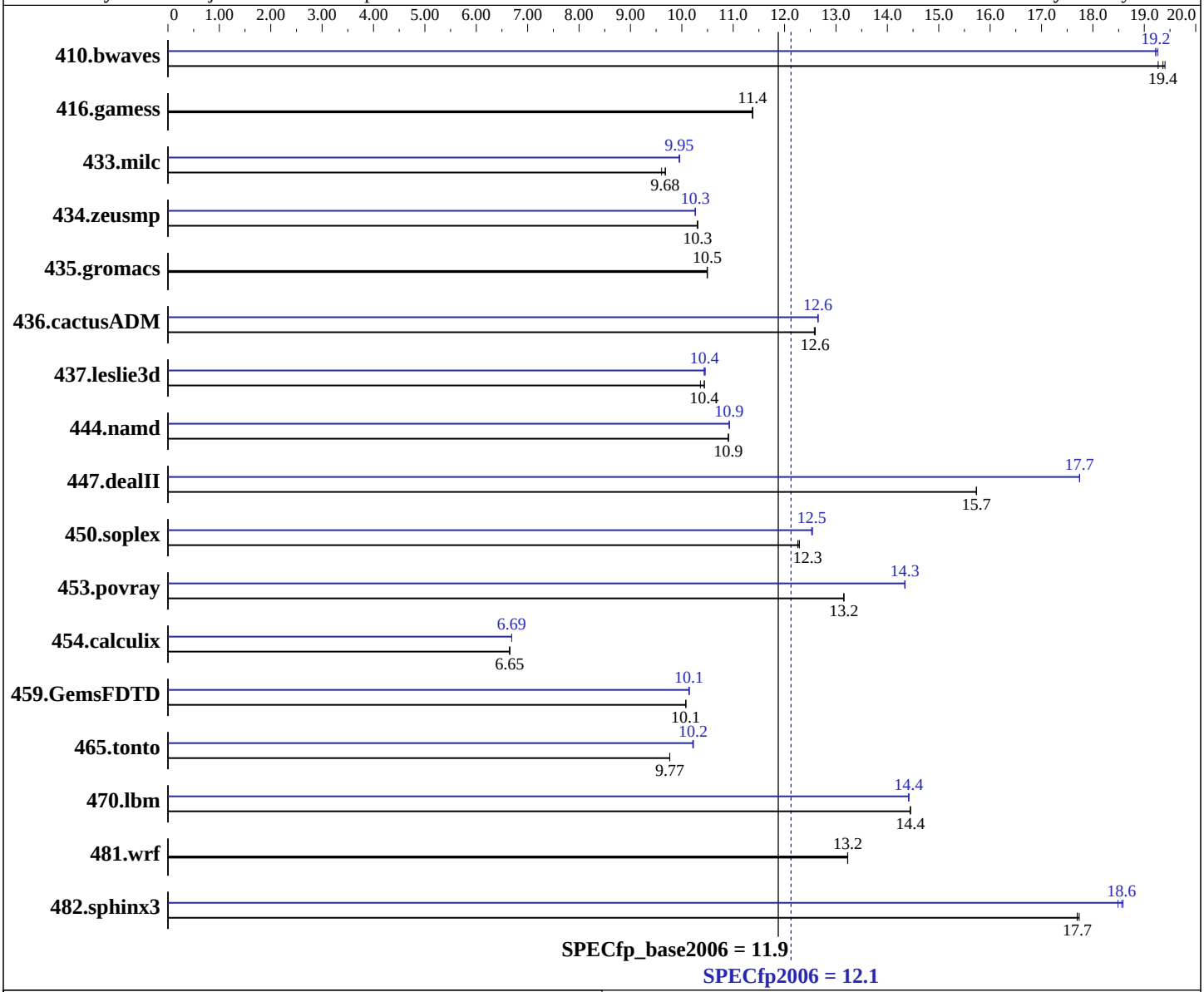
Fujitsu Siemens Computers
CELSIUS M440 Pentium 4 670

SPECfp®2006 = 12.1

SPECfp_base2006 = 11.9

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Apr-2006
Hardware Availability: Sep-2005
Software Availability: May-2006



Hardware

CPU Name:	Intel Pentium 4
CPU Characteristics:	Pentium 4 670
CPU MHz:	3800
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1 chip
Primary Cache:	12 K micro-ops I + 16 KB D on chip per chip
Secondary Cache:	2 MB I+D on chip per chip

Continued on next page

Software

Operating System:	Windows XP Professional, Service Pack 2
Compiler:	Intel C++ Compiler for 32-bit applications (Version 9.1) Intel Fortran Compiler for 32-bit applications (Version 9.1) Microsoft Visual Studio .NET 2003 (libr. & linker)
Auto Parallel:	No
File System:	NTFS
System State:	Default

Continued on next page

SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers
CELSIUS M440 Pentium 4 670

SPECfp2006 = 12.1

SPECfp_base2006 = 11.9

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Apr-2006
Hardware Availability: Sep-2005
Software Availability: May-2006

L3 Cache: None
Other Cache: None
Memory: 4 GB (4 x 1 GB PC2-4200 2 rank DDR2 ECC modules)
Disk Subsystem: Maxtor 6Y160M0 (Serial ATA 7200 RPM)
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: SmartHeap Library, Version 8: shlW32M.lib

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	705	19.3	**702**	**19.4**	700	19.4	705	19.3	**707**	**19.2**	707	19.2
416.gamess	1721	11.4	**1721**	**11.4**	1721	11.4	1721	11.4	**1721**	**11.4**	1721	11.4
433.milc	956	9.61	948	9.68	**949**	**9.68**	922	9.96	923	9.95	**922**	**9.95**
434.zeusmp	883	10.3	883	10.3	**883**	**10.3**	887	10.3	**887**	**10.3**	887	10.3
435.gromacs	681	10.5	680	10.5	**680**	**10.5**	681	10.5	680	10.5	**680**	**10.5**
436.cactusADM	950	12.6	**949**	**12.6**	949	12.6	944	12.7	945	12.6	**945**	**12.6**
437.leslie3d	907	10.4	901	10.4	**901**	**10.4**	899	10.5	**900**	**10.4**	901	10.4
444.namd	735	10.9	735	10.9	**735**	**10.9**	734	10.9	734	10.9	**734**	**10.9**
447.dealII	727	15.7	**727**	**15.7**	727	15.7	645	17.7	645	17.7	**645**	**17.7**
450.soplex	680	12.3	679	12.3	**679**	**12.3**	665	12.5	**666**	**12.5**	666	12.5
453.povray	405	13.2	**404**	**13.2**	404	13.2	**371**	**14.3**	371	14.3	371	14.3
454.calculix	**1241**	**6.65**	1241	6.65	1241	6.65	**1233**	**6.69**	1233	6.69	1233	6.69
459.GemsFDTD	1052	10.1	1053	10.1	**1053**	**10.1**	1045	10.1	1047	10.1	**1047**	**10.1**
465.tonto	1008	9.77	**1008**	**9.77**	1008	9.76	962	10.2	**963**	**10.2**	964	10.2
470.lbm	951	14.4	951	14.5	**951**	**14.4**	953	14.4	**953**	**14.4**	953	14.4
481.wrf	845	13.2	844	13.2	**844**	**13.2**	845	13.2	844	13.2	**844**	**13.2**
482.sphinx3	**1101**	**17.7**	1099	17.7	1101	17.7	1054	18.5	1049	18.6	**1050**	**18.6**

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

General Notes

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

Base Compiler Invocation

C benchmarks:

```
icl
```

C++ benchmarks:

```
icl -Qcxx-features
```

Continued on next page

Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl ifort

Base Portability Flags

436.cactusADM: -Qlowercase -assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:
-fast -F950000000

C++ benchmarks:
-fast -F950000000

Fortran benchmarks:
-fast -F950000000

Benchmarks using both Fortran and C:
-fast -F950000000

Base Other Flags

C benchmarks:
shlW32M.lib

C++ benchmarks:
shlW32M.lib

Fortran benchmarks:
shlW32M.lib

Benchmarks using both Fortran and C:
shlW32M.lib

Peak Compiler Invocation

C benchmarks:
icl

C++ benchmarks (except as noted below):
icl

447.dealII: icl -Qcxx-features

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl ifort

Peak Portability Flags

436.cactusADM: -Qlowercase -assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Peak Optimization Flags

C benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast

Fortran benchmarks:

410.bwaves: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000

416.gamess: basepeak = yes

434.zeusmp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast

437.leslie3d: Same as 434.zeusmp

459.GemsFDTD: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F3200000

465.tonto: Same as 434.zeusmp

Continued on next page

Peak Optimization Flags (Continued)

Benchmarks using both Fortran and C:

435.gromacs: `basepeak = yes`

436.cactusADM: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -F32000000`

454.calculix: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast`

481.wrf: `basepeak = yes`

Peak Other Flags

C benchmarks:
`shlW32M.lib`

C++ benchmarks:
`shlW32M.lib`

Fortran benchmarks:
`shlW32M.lib`

Benchmarks using both Fortran and C:
`shlW32M.lib`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.00.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.00.xml`

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v91.
Report generated on Tue Jul 22 10:00:46 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 24 August 2006.