SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

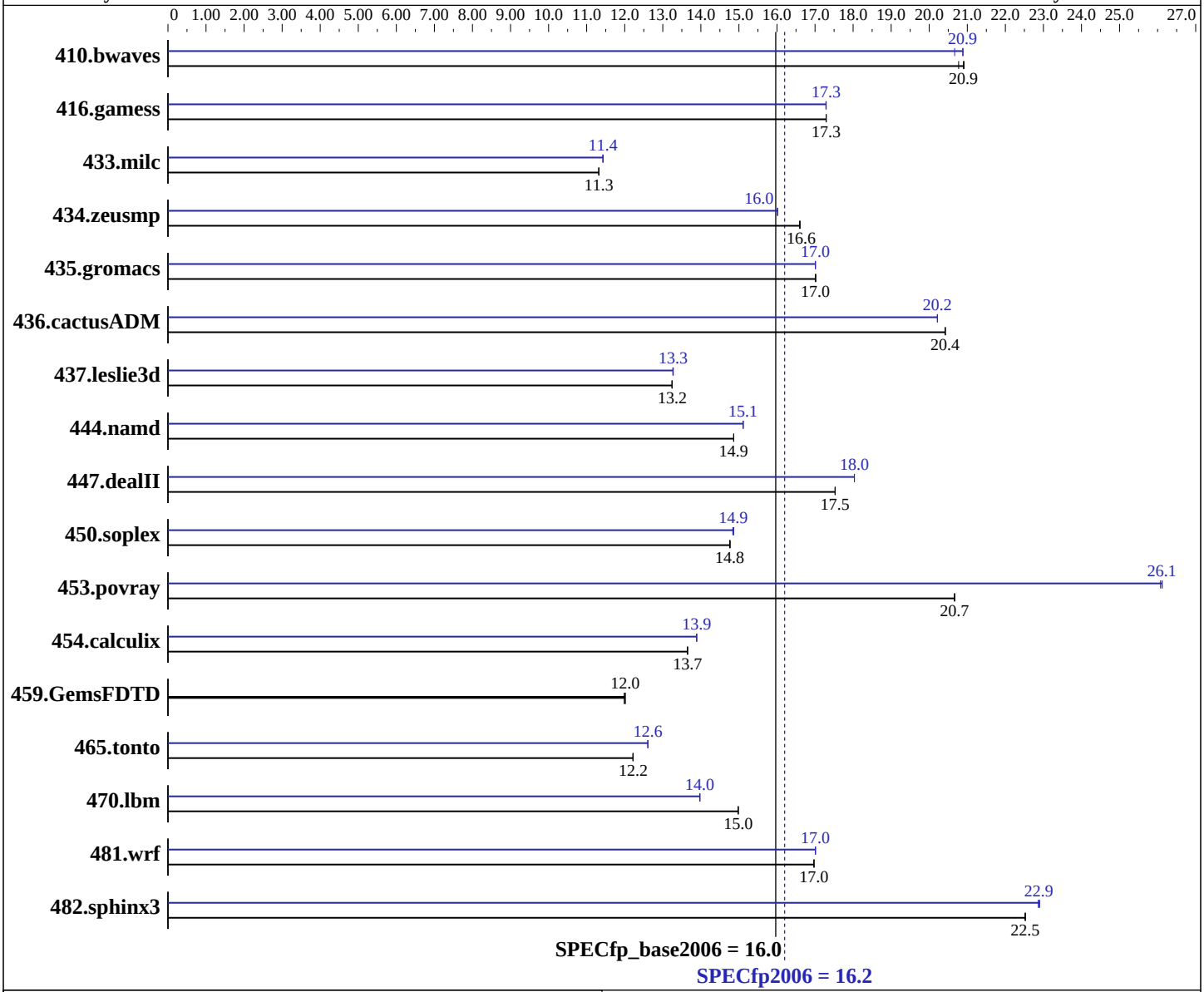
Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECfp®2006 = 16.2

SPECfp_base2006 = 16.0

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Dec-2006
Hardware Availability: Jul-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Core 2 Extreme X6800
CPU Characteristics:	1066 MHz System Bus
CPU MHz:	2933
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:	Windows XP Professional SP2
Compiler:	Intel C++ Compiler 9.1 for IA32 (20061103Z) Intel FORTRAN Compiler 9.1 for IA32 (20061103Z) Microsoft Visual Studio 2005 MicroQuill SmartHeap Library 8.0
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit

Continued on next page

SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECfp2006 = 16.2

SPECfp_base2006 = 16.0

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Dec-2006
Hardware Availability: Jul-2006
Software Availability: Nov-2006

L3 Cache: None
Other Cache: None
Memory: 4 GB (4x1GB 667 MHz ECC CL5 DDR2 SDRAM)
Disk Subsystem: 1 x 80 GB SATA 7200 RPM
Other Hardware: None

Peak Pointers: 32-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	**650**	**20.9**	654	20.8	650	20.9	658	20.7	651	20.9	**651**	**20.9**
416.gamess	1132	17.3	**1132**	**17.3**	1132	17.3	1133	17.3	1132	17.3	**1132**	**17.3**
433.milc	811	11.3	**811**	**11.3**	811	11.3	804	11.4	803	11.4	**803**	**11.4**
434.zeusmp	548	16.6	548	16.6	**548**	**16.6**	568	16.0	568	16.0	**568**	**16.0**
435.gromacs	420	17.0	**420**	**17.0**	420	17.0	420	17.0	420	17.0	**420**	**17.0**
436.cactusADM	585	20.4	**585**	**20.4**	585	20.4	**591**	**20.2**	591	20.2	591	20.2
437.leslie3d	710	13.2	**710**	**13.2**	709	13.2	**708**	**13.3**	708	13.3	709	13.3
444.namd	540	14.9	540	14.9	**540**	**14.9**	**531**	**15.1**	531	15.1	531	15.1
447.dealII	653	17.5	653	17.5	**653**	**17.5**	**634**	**18.0**	634	18.0	634	18.0
450.soplex	565	14.8	**565**	**14.8**	565	14.8	562	14.8	561	14.9	**561**	**14.9**
453.povray	**257**	**20.7**	257	20.7	257	20.7	204	26.1	204	26.1	**204**	**26.1**
454.calculix	605	13.6	**604**	**13.7**	604	13.7	**594**	**13.9**	594	13.9	594	13.9
459.GemsFDTD	885	12.0	883	12.0	**883**	**12.0**	885	12.0	883	12.0	**883**	**12.0**
465.tonto	806	12.2	805	12.2	**805**	**12.2**	780	12.6	**780**	**12.6**	781	12.6
470.lbm	917	15.0	917	15.0	**917**	**15.0**	983	14.0	983	14.0	**983**	**14.0**
481.wrf	658	17.0	658	17.0	**658**	**17.0**	**657**	**17.0**	657	17.0	657	17.0
482.sphinx3	865	22.5	**865**	**22.5**	866	22.5	852	22.9	851	22.9	**852**	**22.9**

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

General Notes

```
32-bit binaries were built on Windows XP Professional x64 Edition
```

Base Compiler Invocation

C benchmarks:
```
icl -Qc99
```

C++ benchmarks:
```
icl
```

Fortran benchmarks:
```
ifort
```

Continued on next page

Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
icl -Qc99 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 /F512000000 shlW32M.lib -link /FORCE:MULTIPLE

C++ benchmarks:
-fast -Qcxx_features /F512000000 shlW32M.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-fast /F1000000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-fast /F1000000000 -link /FORCE:MULTIPLE

Peak Compiler Invocation

C benchmarks:
icl -Qc99

C++ benchmarks:
icl

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qc99 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:
ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000 shlW32M.lib -link /FORCE:MULTIPLE

C++ benchmarks:
ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features /F512000000 shlW32M.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F1000000000 -link /FORCE:MULTIPLE

416.gamess: ONESTEP -fast /F1000000000 -link /FORCE:MULTIPLE

434.zeusmp: Same as 410.bwaves

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: basepeak = yes

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: -fast /F1000000000 -link /FORCE:MULTIPLE

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F1000000000 -link /FORCE:MULTIPLE

454.calculix: Same as 436.cactusADM

481.wrf: Same as 435.gromacs

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.html

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.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 v1.0.
Report generated on Tue Jul 22 10:54:20 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 9 January 2007.