SPEC® CFP2006 Result

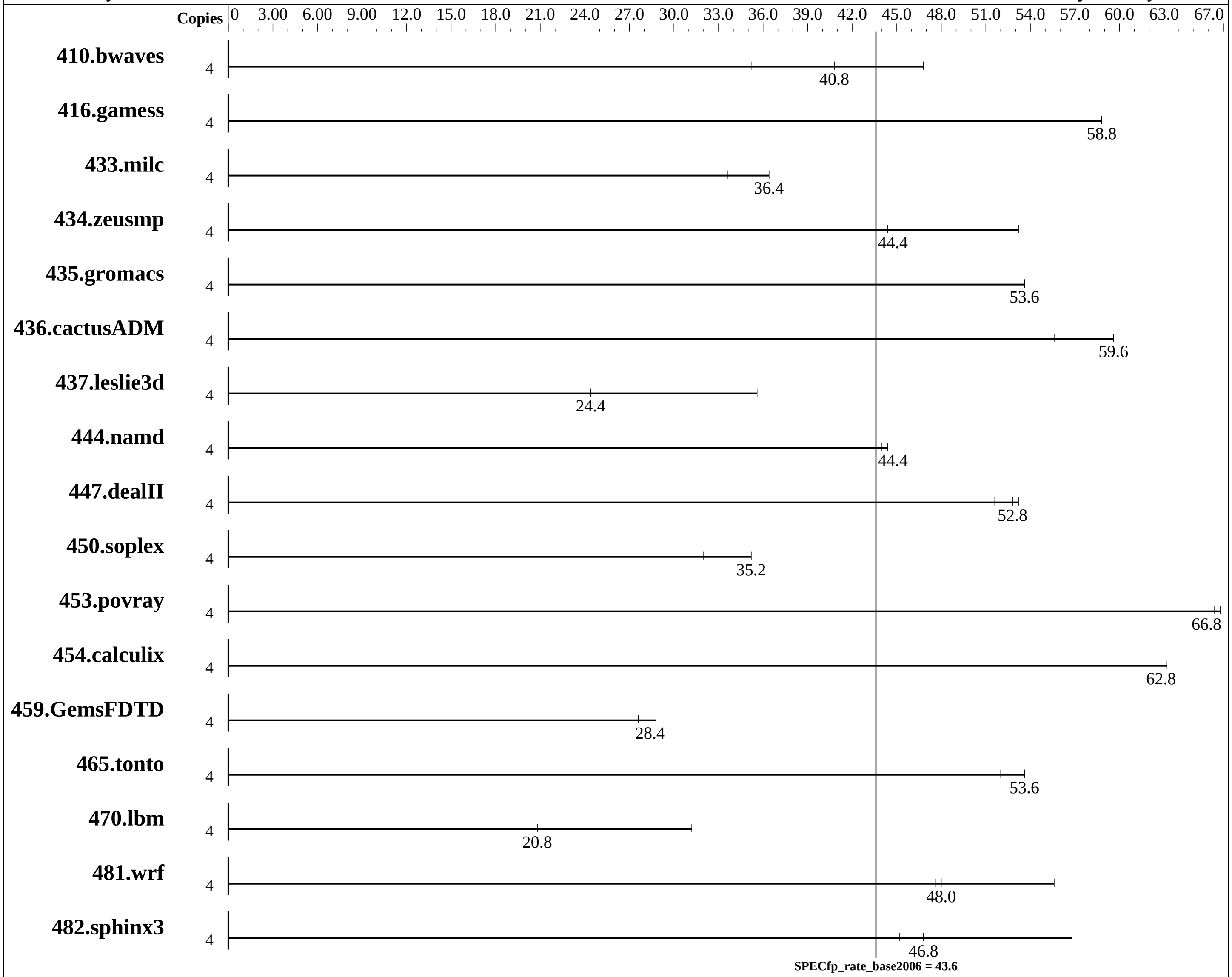
Dell Inc.

PowerEdge R410 (Intel Xeon E5502, 1.86 GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 43.6

CPU2006 license:	55	**Test date:**	Sep-2009
Test sponsor:	Dell Inc.	**Hardware Availability:**	Jun-2009
Tested by:	Dell Inc.	**Software Availability:**	May-2009



Hardware

CPU Name:	Intel Xeon E5502
CPU Characteristics:	
CPU MHz:	1867
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core

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Software

Operating System:	Microsoft Windows Server 2008 Enterprise x64 Edition SP2
Compiler:	Intel C++ Compiler for Intel 64, Version 11.0 Build 20090131 Package ID: w_cproc_p_11.0.072 Intel Visual Fortran Compiler for Intel 64, Version 11.0 Build 20090131 Package ID: w_cprof_p_11.0.072 Microsoft Visual Studio 2008 SP1
Auto Parallel:	No
File System:	NTFS

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L3 Cache:	4 MB I+D on chip per chip
Other Cache:	None
Memory:	4 GB (2 x 2 GB DDR3-1066 DR RDIMM downclocked to 800 MHz)
Disk Subsystem:	1 x 73 GB 15000 RPM SAS
Other Hardware:	None

System State:	Default
Base Pointers:	32/64-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library 8.1 for x64

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1544	35.2	**1328**	**40.8**	1159	46.8							
416.gamess	4	1333	58.8	**1333**	**58.8**	1333	58.8							
433.milc	4	**1009**	**36.4**	1007	36.4	1092	33.6							
434.zeusmp	4	683	53.2	**819**	**44.4**	820	44.4							
435.gromacs	4	532	53.6	**532**	**53.6**	533	53.6							
436.cactusADM	4	862	55.6	801	59.6	**803**	**59.6**							
437.leslie3d	4	1062	35.6	1559	24.0	**1541**	**24.4**							
444.namd	4	726	44.0	**725**	**44.4**	725	44.4							
447.dealII	4	862	53.2	886	51.6	**867**	**52.8**							
450.soplex	4	1037	32.0	**953**	**35.2**	950	35.2							
453.povray	4	320	66.4	**318**	**66.8**	318	66.8							
454.calculix	4	**524**	**62.8**	524	63.2	525	62.8							
459.GemsFDTD	4	1532	27.6	1471	28.8	**1501**	**28.4**							
465.tonto	4	758	52.0	**736**	**53.6**	735	53.6							
470.lbm	4	1772	31.2	**2641**	**20.8**	2644	20.8							
481.wrf	4	806	55.6	941	47.6	**929**	**48.0**							
482.sphinx3	4	1723	45.2	**1661**	**46.8**	1370	56.8							

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

General Notes

```
Binaries were built on Windows Vista Business (64-bit)
```

Base Compiler Invocation

C benchmarks:
```
icl -Qvc9 -Qstd=c99
```

C++ benchmarks:
```
icl -Qvc9
```

Fortran benchmarks:
```
ifort
```

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Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
`icl -Qvc9 -Qstd=c99 ifort`

Base Portability Flags

410.bwaves: -DSPEC_CPU_P64 /assume:underscore
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:
-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

C++ benchmarks:
-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
-Qcxx_features /F512000000 shlw64mt.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:
-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000

Benchmarks using both Fortran and C:
-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/dell.flags.ic11.0.win.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.flags.ic11.0.win.xml

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

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