SPEC® CFP2006 Result

Dell Inc.

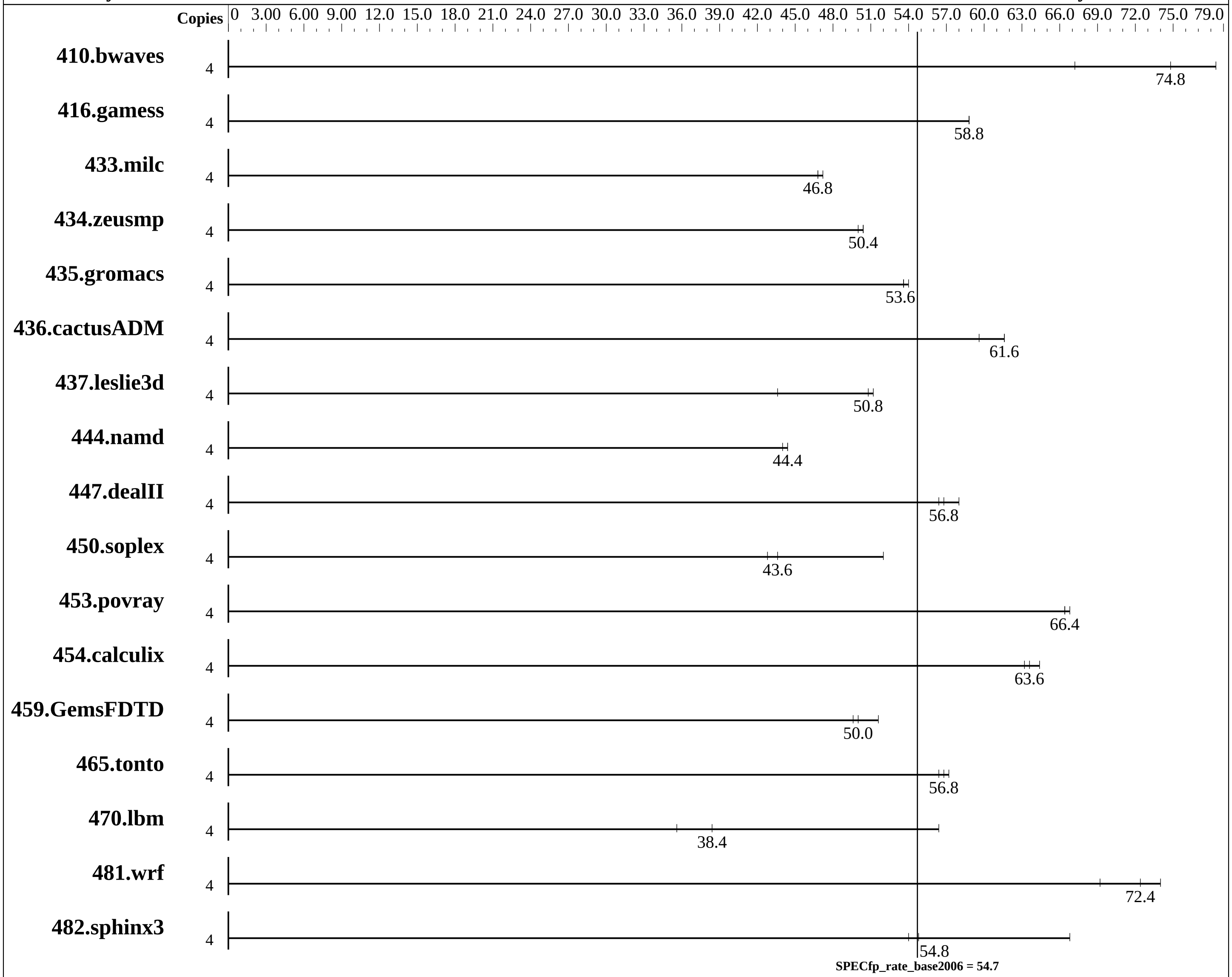
PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 54.7

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

Test date: Sep-2009
Hardware Availability: Mar-2009
Software Availability: Feb-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 (4 x 1 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:	Not Applicable
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	**729**	**74.8**	695	78.4	808	67.2							
416.gamess	4	1332	58.8	1332	58.8	**1332**	**58.8**							
433.milc	4	785	46.8	781	47.2	**783**	**46.8**							
434.zeusmp	4	728	50.0	**722**	**50.4**	722	50.4							
435.gromacs	4	**532**	**53.6**	530	54.0	532	53.6							
436.cactusADM	4	801	59.6	**775**	**61.6**	775	61.6							
437.leslie3d	4	734	51.2	865	43.6	**738**	**50.8**							
444.namd	4	**725**	**44.4**	726	44.0	725	44.4							
447.dealII	4	791	58.0	**804**	**56.8**	811	56.4							
450.soplex	4	**767**	**43.6**	778	42.8	644	52.0							
453.povray	4	320	66.4	**320**	**66.4**	318	66.8							
454.calculix	4	522	63.2	**520**	**63.6**	511	64.4							
459.GemsFDTD	4	858	49.6	822	51.6	**847**	**50.0**							
465.tonto	4	687	57.2	696	56.4	**691**	**56.8**							
470.lbm	4	972	56.4	**1433**	**38.4**	1539	35.6							
481.wrf	4	647	69.2	**619**	**72.4**	602	74.0							
482.sphinx3	4	**1427**	**54.8**	1165	66.8	1442	54.0							

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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