



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®2006 = Not Run

PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp_base2006 = 18.9

CPU2006 license: 55

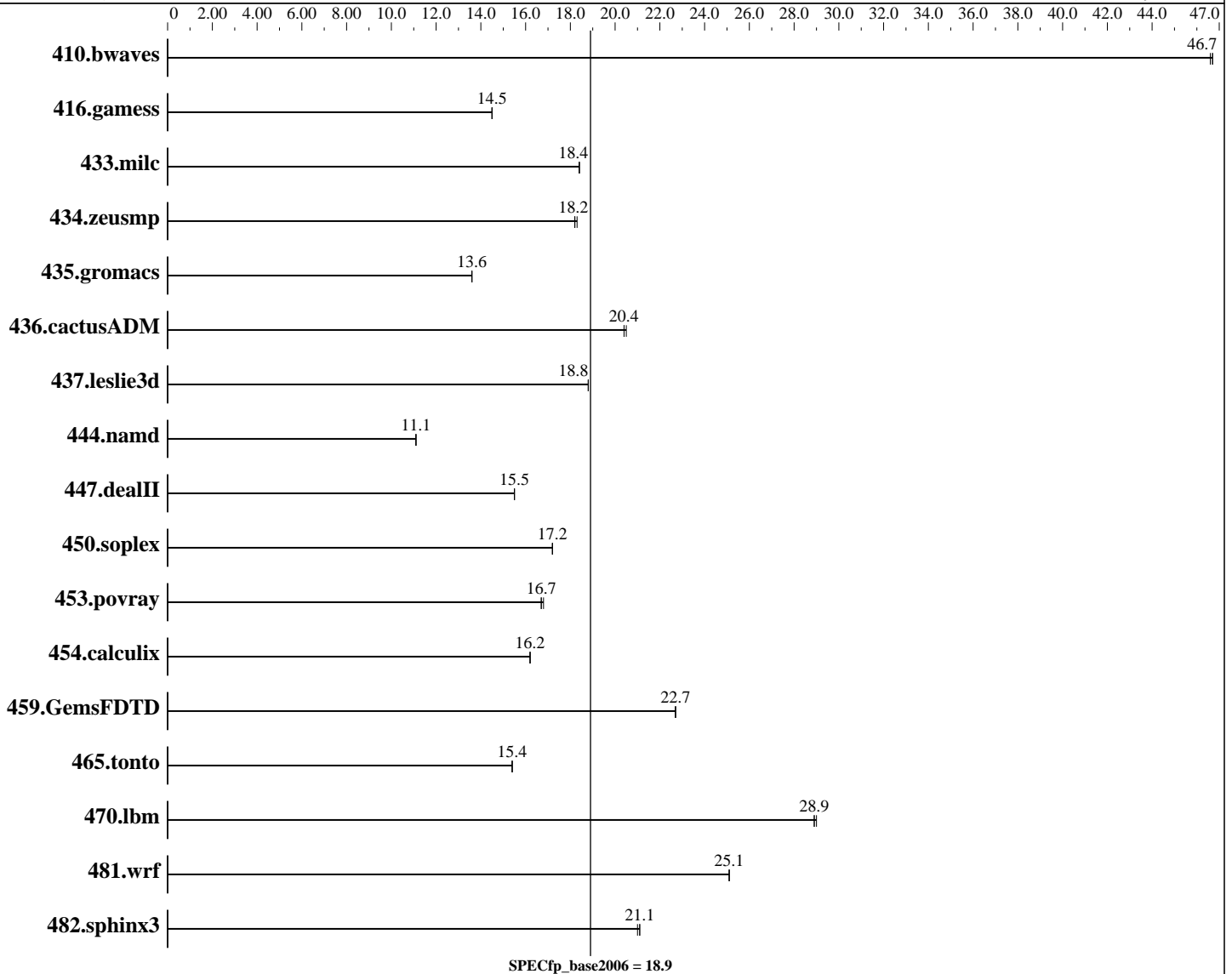
Test date: Sep-2009

Test sponsor: Dell Inc.

Hardware Availability: Mar-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: 2 cores, 1 chip, 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: Yes
 File System: NTFS

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L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 2 GB (2 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	292	46.6	291	46.7	<u>291</u>	<u>46.7</u>						
416.gamess	1350	14.5	<u>1350</u>	<u>14.5</u>	1349	14.5						
433.milc	<u>499</u>	<u>18.4</u>	499	18.4	498	18.4						
434.zeusmp	499	18.2	499	18.3	<u>499</u>	<u>18.2</u>						
435.gromacs	<u>527</u>	<u>13.6</u>	527	13.6	527	13.6						
436.cactusADM	<u>586</u>	<u>20.4</u>	582	20.5	586	20.4						
437.leslie3d	500	18.8	500	18.8	<u>500</u>	<u>18.8</u>						
444.namd	724	11.1	724	11.1	<u>724</u>	<u>11.1</u>						
447.dealII	<u>738</u>	<u>15.5</u>	738	15.5	737	15.5						
450.soplex	<u>485</u>	<u>17.2</u>	485	17.2	485	17.2						
453.povray	317	16.8	<u>318</u>	<u>16.7</u>	318	16.7						
454.calculix	508	16.2	<u>508</u>	<u>16.2</u>	508	16.2						
459.GemsFDTD	467	22.7	468	22.7	<u>468</u>	<u>22.7</u>						
465.tonto	641	15.4	<u>641</u>	<u>15.4</u>	640	15.4						
470.lbm	<u>475</u>	<u>28.9</u>	474	29.0	475	28.9						
481.wrf	446	25.1	<u>446</u>	<u>25.1</u>	446	25.1						
482.sphinx3	<u>923</u>	<u>21.1</u>	926	21.0	923	21.1						

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- -Qparallel
-Qopt-prefetch /F512000000

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

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

Benchmarks using both Fortran and C:
-QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qparallel
-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>



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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>

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