



# SPEC<sup>®</sup> CFP2006 Result

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Dell Inc.

SPECfp<sup>®</sup>\_rate2006 = Not Run

PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp\_rate\_base2006 = 54.7

CPU2006 license: 55

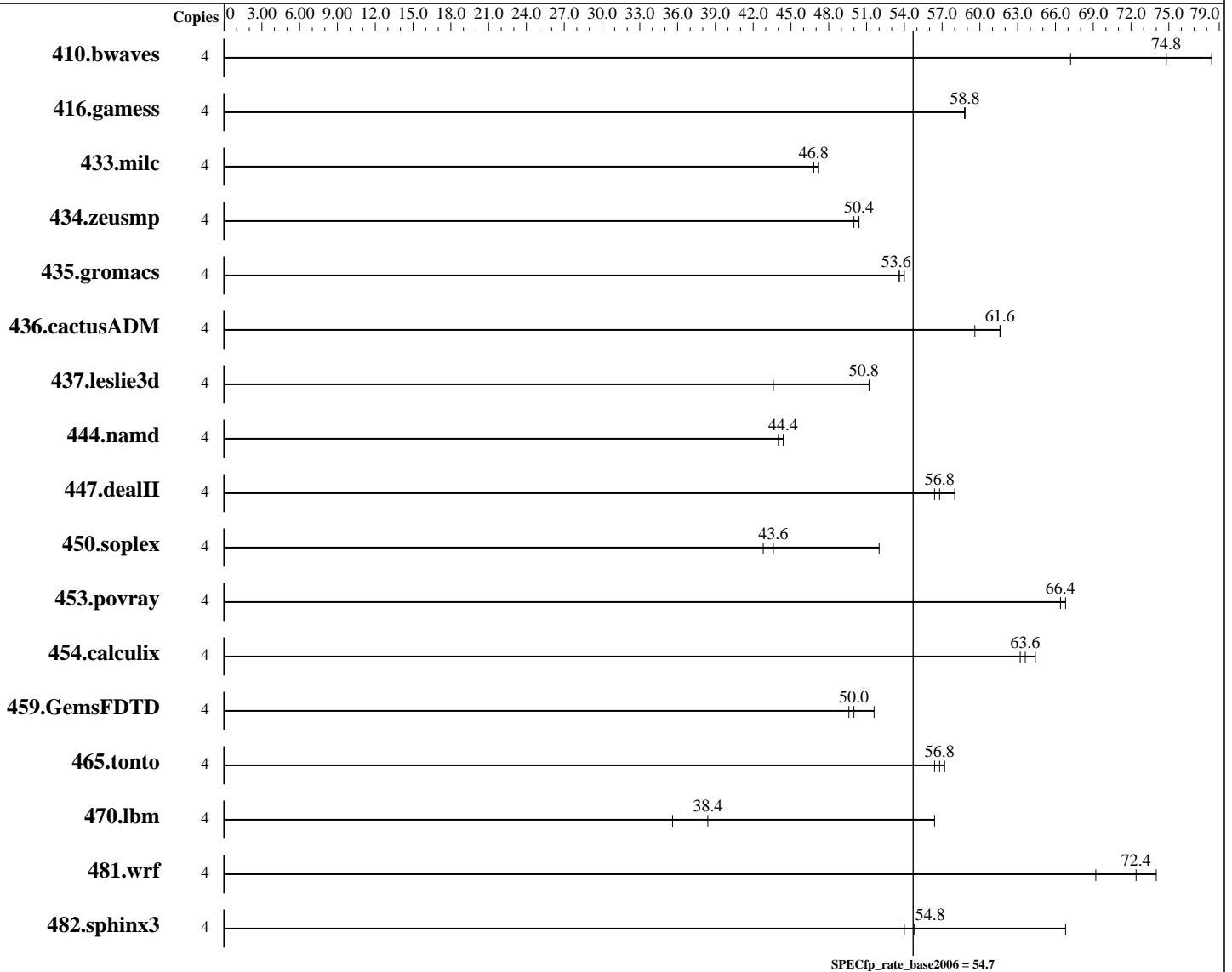
Test sponsor: Dell Inc.

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	<b>729</b>	<b>74.8</b>	695	78.4	808	67.2									
416.gamess	4	1332	58.8	1332	58.8	<b>1332</b>	<b>58.8</b>									
433.milc	4	785	46.8	781	47.2	<b>783</b>	<b>46.8</b>									
434.zeusmp	4	728	50.0	<b>722</b>	<b>50.4</b>	722	50.4									
435.gromacs	4	<b>532</b>	<b>53.6</b>	530	54.0	532	53.6									
436.cactusADM	4	801	59.6	<b>775</b>	<b>61.6</b>	775	61.6									
437.leslie3d	4	734	51.2	865	43.6	<b>738</b>	<b>50.8</b>									
444.namd	4	<b>725</b>	<b>44.4</b>	726	44.0	725	44.4									
447.dealII	4	791	58.0	<b>804</b>	<b>56.8</b>	811	56.4									
450.soplex	4	<b>767</b>	<b>43.6</b>	778	42.8	644	52.0									
453.povray	4	320	66.4	<b>320</b>	<b>66.4</b>	318	66.8									
454.calculix	4	522	63.2	<b>520</b>	<b>63.6</b>	511	64.4									
459.GemsFDTD	4	858	49.6	822	51.6	<b>847</b>	<b>50.0</b>									
465.tonto	4	687	57.2	696	56.4	<b>691</b>	<b>56.8</b>									
470.lbm	4	972	56.4	<b>1433</b>	<b>38.4</b>	1539	35.6									
481.wrf	4	647	69.2	<b>619</b>	<b>72.4</b>	602	74.0									
482.sphinx3	4	<b>1427</b>	<b>54.8</b>	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>



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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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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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