



# SPEC<sup>®</sup> CFP2006 Result

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Dell Inc.

SPECfp<sup>®</sup>2006 = Not Run

PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp\_base2006 = 19.1

CPU2006 license: 55

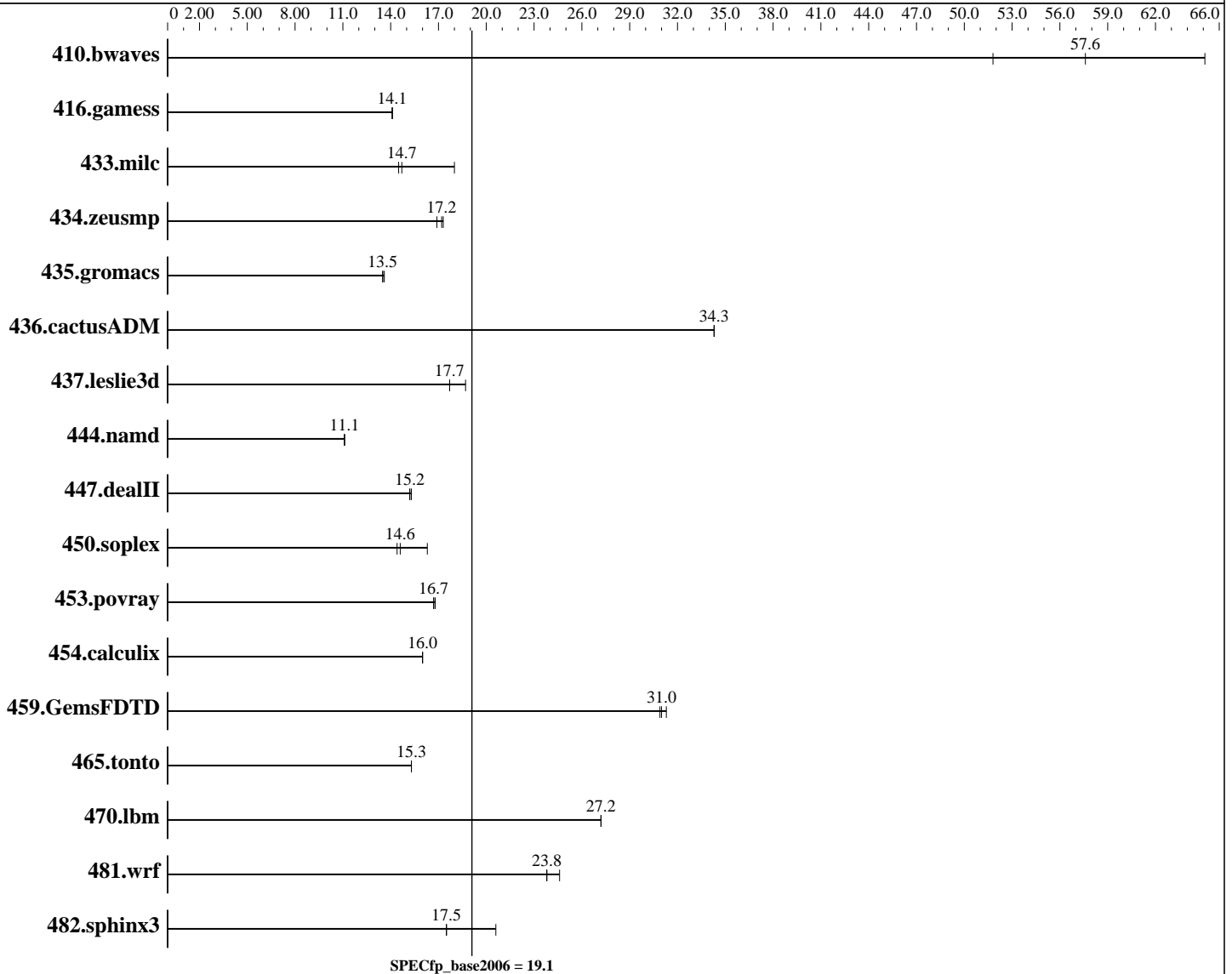
Test date: Sep-2009

Test sponsor: Dell Inc.

Hardware Availability: Mar-2009

Tested by: Dell Inc.

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: Yes  
 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	209	65.1	263	51.8	<b><u>236</u></b>	<b><u>57.6</u></b>						
416.gamess	1389	14.1	<b><u>1389</u></b>	<b><u>14.1</u></b>	1390	14.1						
433.milc	<b><u>624</u></b>	<b><u>14.7</u></b>	632	14.5	510	18.0						
434.zeusmp	540	16.9	526	17.3	<b><u>530</u></b>	<b><u>17.2</u></b>						
435.gromacs	526	13.6	<b><u>528</u></b>	<b><u>13.5</u></b>	529	13.5						
436.cactusADM	349	34.3	349	34.3	<b><u>349</u></b>	<b><u>34.3</u></b>						
437.leslie3d	502	18.7	530	17.7	<b><u>530</u></b>	<b><u>17.7</u></b>						
444.namd	724	11.1	<b><u>724</u></b>	<b><u>11.1</u></b>	724	11.1						
447.dealII	749	15.3	751	15.2	<b><u>751</u></b>	<b><u>15.2</u></b>						
450.soplex	513	16.3	580	14.4	<b><u>570</u></b>	<b><u>14.6</u></b>						
453.povray	<b><u>318</u></b>	<b><u>16.7</u></b>	317	16.8	318	16.7						
454.calculix	517	16.0	<b><u>517</u></b>	<b><u>16.0</u></b>	516	16.0						
459.GemsFDTD	344	30.9	<b><u>343</u></b>	<b><u>31.0</u></b>	340	31.3						
465.tonto	<b><u>643</u></b>	<b><u>15.3</u></b>	643	15.3	644	15.3						
470.lbm	506	27.2	504	27.2	<b><u>505</u></b>	<b><u>27.2</u></b>						
481.wrf	<b><u>469</u></b>	<b><u>23.8</u></b>	470	23.8	454	24.6						
482.sphinx3	1115	17.5	<b><u>1111</u></b>	<b><u>17.5</u></b>	946	20.6						

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

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