



# SPEC<sup>®</sup> CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECfp<sup>®</sup>2006 = Not Run

PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp\_base2006 = 19.8

CPU2006 license: 55

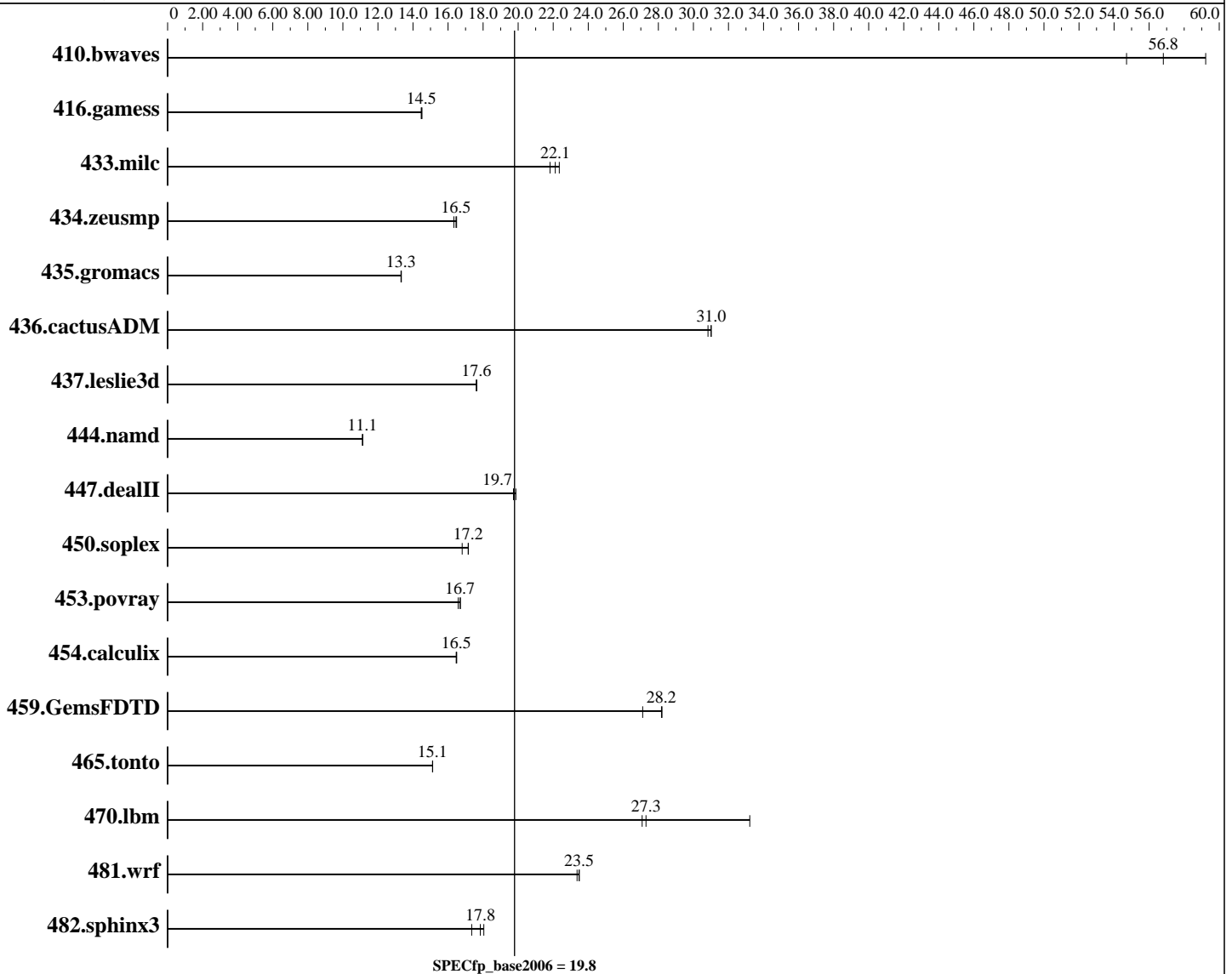
Test date: Sep-2009

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

Continued on next page

### Software

Operating System: SUSE Linux Enterprise Server 10 (x86\_64) SP2, Kernel 2.6.16.60-0.21-smp  
 Compiler: Intel C++ and Fortran Compiler Professional 11.0 for Linux  
 Build 20090131 Package ID: l\_cproc\_p\_11.0.080, l\_cprof\_p\_11.0.080  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Run level 3 (multi-user)

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECfp2006 = Not Run

PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp\_base2006 = 19.8

CPU2006 license: 55

Test date: Sep-2009

Test sponsor: Dell Inc.

Hardware Availability: Mar-2009

Tested by: Dell Inc.

Software Availability: Feb-2009

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

Base Pointers: 64-bit  
 Peak Pointers: Not Applicable  
 Other Software: Binutils 2.18.50.0.7.20080502

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	229	59.2	<b><u>239</u></b>	<b><u>56.8</u></b>	248	54.7						
416.gamess	1353	14.5	<b><u>1352</u></b>	<b><u>14.5</u></b>	1349	14.5						
433.milc	<b><u>415</u></b>	<b><u>22.1</u></b>	421	21.8	411	22.3						
434.zeusmp	<b><u>553</u></b>	<b><u>16.5</u></b>	552	16.5	557	16.3						
435.gromacs	536	13.3	535	13.3	<b><u>536</u></b>	<b><u>13.3</u></b>						
436.cactusADM	<b><u>385</u></b>	<b><u>31.0</u></b>	385	31.0	388	30.8						
437.leslie3d	<b><u>533</u></b>	<b><u>17.6</u></b>	533	17.6	534	17.6						
444.namd	721	11.1	<b><u>721</u></b>	<b><u>11.1</u></b>	721	11.1						
447.dealII	<b><u>579</u></b>	<b><u>19.7</u></b>	576	19.9	580	19.7						
450.soplex	496	16.8	<b><u>486</u></b>	<b><u>17.2</u></b>	486	17.2						
453.povray	318	16.7	<b><u>319</u></b>	<b><u>16.7</u></b>	321	16.6						
454.calculix	501	16.5	<b><u>501</u></b>	<b><u>16.5</u></b>	500	16.5						
459.GemsFDTD	376	28.2	<b><u>377</u></b>	<b><u>28.2</u></b>	391	27.1						
465.tonto	651	15.1	<b><u>651</u></b>	<b><u>15.1</u></b>	651	15.1						
470.lbm	414	33.2	<b><u>503</u></b>	<b><u>27.3</u></b>	507	27.1						
481.wrf	476	23.5	<b><u>476</u></b>	<b><u>23.5</u></b>	478	23.4						
482.sphinx3	1123	17.4	<b><u>1093</u></b>	<b><u>17.8</u></b>	1080	18.0						

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

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

## General Notes

OMP\_NUM\_THREADS set to number of cores  
 KMP\_AFFINITY set to granularity=fine,scatter  
 KMP\_STACKSIZE set to 200M



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECfp2006 = Not Run

PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp\_base2006 = 19.8

CPU2006 license: 55

Test date: Sep-2009

Test sponsor: Dell Inc.

Hardware Availability: Mar-2009

Tested by: Dell Inc.

Software Availability: Feb-2009

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc

Fortran benchmarks:  
ifort

Benchmarks using both Fortran and C:  
icc ifort

## Base Portability Flags

410.bwaves: -DSPEC\_CPU\_LP64  
416.gamess: -DSPEC\_CPU\_LP64  
433.milc: -DSPEC\_CPU\_LP64  
434.zeusmp: -DSPEC\_CPU\_LP64  
435.gromacs: -DSPEC\_CPU\_LP64 -nofor\_main  
436.cactusADM: -DSPEC\_CPU\_LP64 -nofor\_main  
437.leslie3d: -DSPEC\_CPU\_LP64  
444.namd: -DSPEC\_CPU\_LP64  
447.dealII: -DSPEC\_CPU\_LP64  
450.soplex: -DSPEC\_CPU\_LP64  
453.povray: -DSPEC\_CPU\_LP64  
454.calculix: -DSPEC\_CPU\_LP64 -nofor\_main  
459.GemsFDTD: -DSPEC\_CPU\_LP64  
465.tonto: -DSPEC\_CPU\_LP64  
470.lbm: -DSPEC\_CPU\_LP64  
481.wrf: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_CASE\_FLAG -DSPEC\_CPU\_LINUX  
482.sphinx3: -DSPEC\_CPU\_LP64

## Base Optimization Flags

C benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

C++ benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Fortran benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Benchmarks using both Fortran and C:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECfp2006 = Not Run

PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp\_base2006 = 19.8

CPU2006 license: 55

Test date: Sep-2009

Test sponsor: Dell Inc.

Hardware Availability: Mar-2009

Tested by: Dell Inc.

Software Availability: Feb-2009

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.xml>

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.1.  
Report generated on Wed Jul 23 04:42:49 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 13 October 2009.