



# SPEC<sup>®</sup> CFP2006 Result

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## Dell Inc.

PowerEdge 2900 (Intel Xeon processor 5140, 2.33GHz)

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

### SPECfp\_rate\_base2006 = 38.5

CPU2006 license: 55

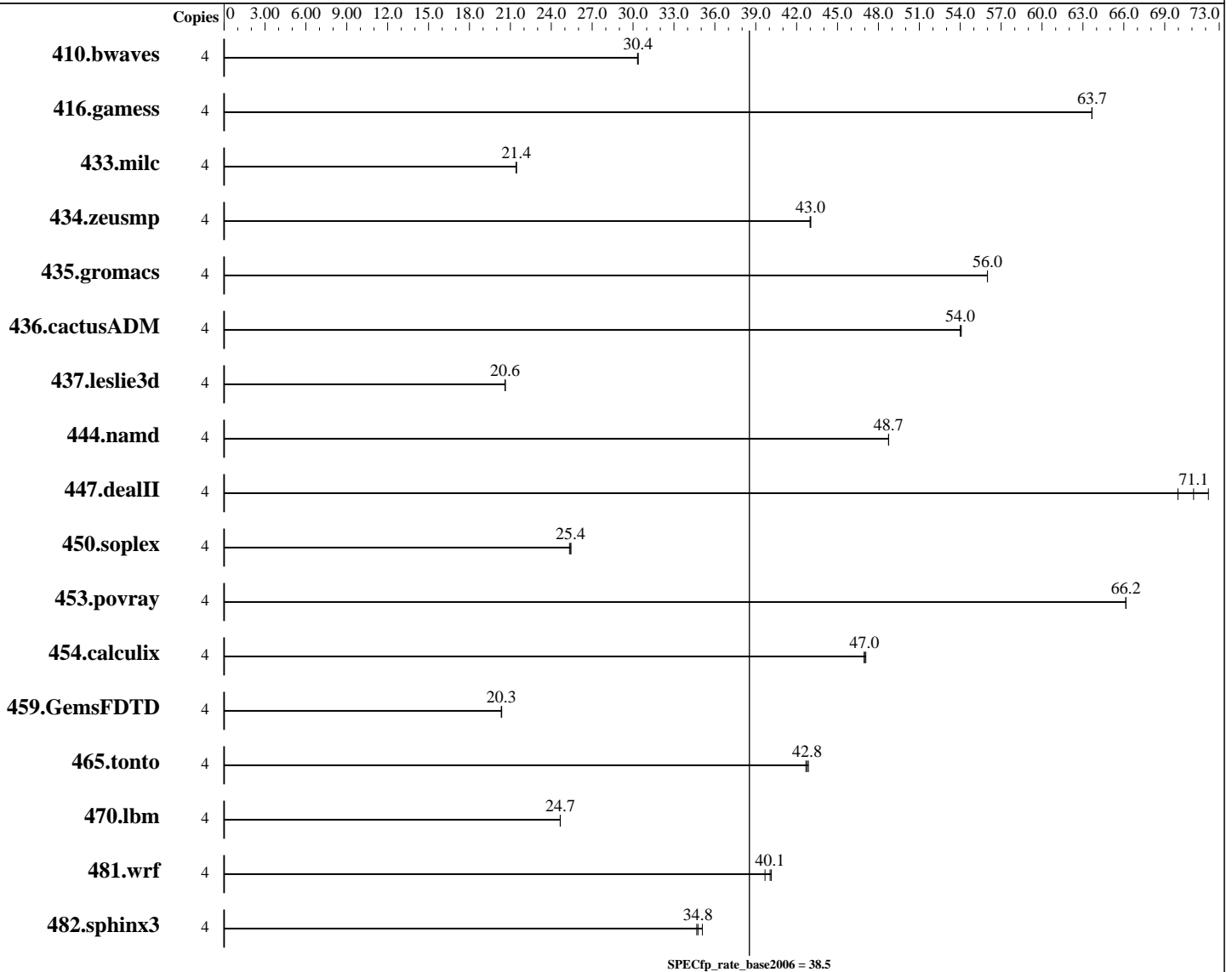
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Jul-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 5140  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 2333  
 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: 4 MB I+D on chip per chip

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### Software

Operating System: Red Hat Enterprise Linux 4 Advanced Server Update 3 EM64T kernel 2.6.9-34-smp  
 Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1  
 Package ID l\_cc\_c\_9.1.045 Build no 20061101  
 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1  
 Package ID l\_fc\_c\_9.1.040 Build no 20061101  
 Auto Parallel: No

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L3 Cache: None  
Other Cache: None  
Memory: 16 GB (8 x 2 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)  
Disk Subsystem: 1 x 73 GB SAS 15k RPM  
Other Hardware: None

File System: ext3  
System State: Run level 3  
Base Pointers: 64-bit  
Peak Pointers: Not Applicable  
Other Software: None

## Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	4	1793	30.3	1790	30.4	<u>1790</u>	<u>30.4</u>									
416.gamess	4	1230	63.7	1230	63.7	<u>1230</u>	<u>63.7</u>									
433.milc	4	1713	21.4	1714	21.4	<u>1713</u>	<u>21.4</u>									
434.zeusmp	4	846	43.0	<u>846</u>	<u>43.0</u>	847	43.0									
435.gromacs	4	<u>510</u>	<u>56.0</u>	510	56.0	510	56.0									
436.cactusADM	4	<u>885</u>	<u>54.0</u>	885	54.0	884	54.1									
437.leslie3d	4	1823	20.6	<u>1823</u>	<u>20.6</u>	1825	20.6									
444.namd	4	<u>658</u>	<u>48.7</u>	658	48.7	658	48.7									
447.dealII	4	654	70.0	<u>643</u>	<u>71.1</u>	634	72.2									
450.soplex	4	1311	25.4	<u>1312</u>	<u>25.4</u>	1317	25.3									
453.povray	4	<u>322</u>	<u>66.2</u>	322	66.2	322	66.1									
454.calculix	4	<u>702</u>	<u>47.0</u>	701	47.1	703	46.9									
459.GemsFDTD	4	2087	20.3	<u>2086</u>	<u>20.3</u>	2084	20.4									
465.tonto	4	<u>920</u>	<u>42.8</u>	922	42.7	918	42.9									
470.lbm	4	<u>2228</u>	<u>24.7</u>	2229	24.7	2228	24.7									
481.wrf	4	1126	39.7	1113	40.1	<u>1116</u>	<u>40.1</u>									
482.sphinx3	4	2222	35.1	2249	34.7	<u>2242</u>	<u>34.8</u>									

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

## Platform Notes

Snoop Filter enabled in BIOS  
"ulimit -s unlimited" set

## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

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## Base Compiler Invocation (Continued)

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:

-fast

C++ benchmarks:

-fast

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast

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

<http://www.spec.org/cpu2006/flags/hp-ic91-flags.html>

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

<http://www.spec.org/cpu2006/flags/hp-ic91-flags.xml>



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

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