



# SPEC<sup>®</sup> CFP2006 Result

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## Dell Inc.

PowerEdge 2900 (Intel Xeon processor 5150, 2.66GHz)

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

### SPECfp\_rate\_base2006 = 40.9

CPU2006 license: 55

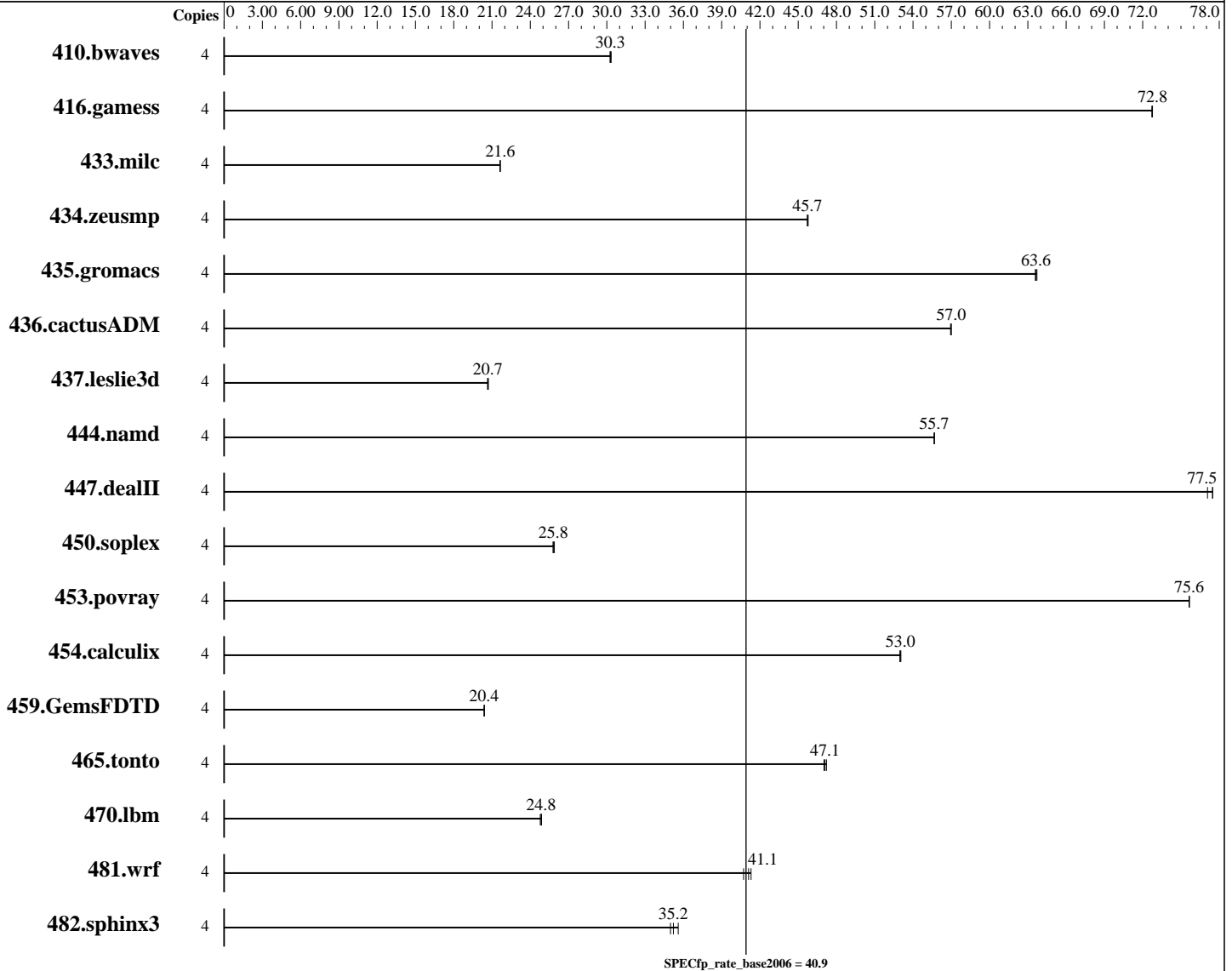
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Jul-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 5150  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 2666  
 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	<b><u>1795</u></b>	<b><u>30.3</u></b>	1797	30.3	1792	30.3							
416.gamess	4	1077	72.7	<b><u>1076</u></b>	<b><u>72.8</u></b>	1076	72.8							
433.milc	4	1698	21.6	1696	21.6	<b><u>1697</u></b>	<b><u>21.6</u></b>							
434.zeusmp	4	796	45.7	<b><u>796</u></b>	<b><u>45.7</u></b>	795	45.8							
435.gromacs	4	449	63.6	448	63.7	<b><u>449</u></b>	<b><u>63.6</u></b>							
436.cactusADM	4	839	57.0	839	56.9	<b><u>839</u></b>	<b><u>57.0</u></b>							
437.leslie3d	4	1815	20.7	1820	20.7	<b><u>1820</u></b>	<b><u>20.7</u></b>							
444.namd	4	576	55.7	576	55.7	<b><u>576</u></b>	<b><u>55.7</u></b>							
447.dealII	4	591	77.5	<b><u>591</u></b>	<b><u>77.5</u></b>	594	77.1							
450.soplex	4	<b><u>1293</u></b>	<b><u>25.8</u></b>	1289	25.9	1294	25.8							
453.povray	4	281	75.7	281	75.6	<b><u>281</u></b>	<b><u>75.6</u></b>							
454.calculix	4	622	53.0	623	53.0	<b><u>623</u></b>	<b><u>53.0</u></b>							
459.GemsFDTD	4	2082	20.4	2080	20.4	<b><u>2082</u></b>	<b><u>20.4</u></b>							
465.tonto	4	<b><u>836</u></b>	<b><u>47.1</u></b>	834	47.2	837	47.0							
470.lbm	4	2209	24.9	<b><u>2212</u></b>	<b><u>24.8</u></b>	2218	24.8							
481.wrf	4	1097	40.7	<b><u>1087</u></b>	<b><u>41.1</u></b>	1082	41.3							
482.sphinx3	4	2190	35.6	<b><u>2214</u></b>	<b><u>35.2</u></b>	2228	35.0							

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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