



# SPEC® CFP2006 Result

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## Dell Inc.

PowerEdge 2900 (Intel Xeon processor 5120, 1.86GHz)

SPECfp®\_rate2006 = Not Run

SPECfp\_rate\_base2006 = 32.8

CPU2006 license: 55

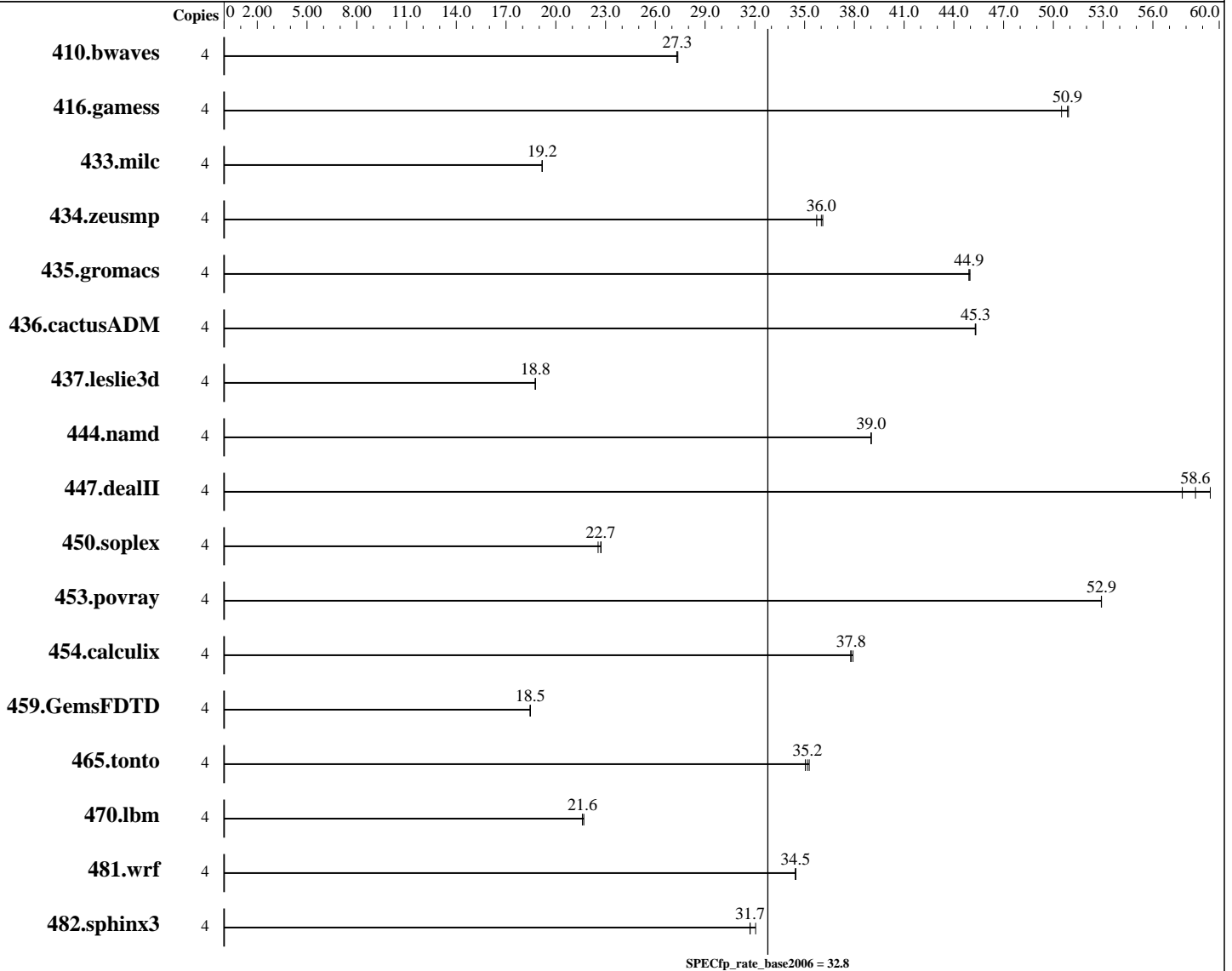
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Jul-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 5120  
 CPU Characteristics: 1066 MHz Bus Speed  
 CPU MHz: 1866  
 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	1987	27.4	<u>1990</u>	<u>27.3</u>	1992	27.3							
416.gamess	4	1551	50.5	1538	50.9	<u>1540</u>	<u>50.9</u>							
433.milc	4	1916	19.2	1914	19.2	<u>1914</u>	<u>19.2</u>							
434.zeusmp	4	<u>1011</u>	<u>36.0</u>	1019	35.7	1008	36.1							
435.gromacs	4	635	45.0	<u>636</u>	<u>44.9</u>	636	44.9							
436.cactusADM	4	<u>1055</u>	<u>45.3</u>	1055	45.3	1055	45.3							
437.leslie3d	4	<u>2003</u>	<u>18.8</u>	2004	18.8	2002	18.8							
444.namd	4	822	39.0	<u>822</u>	<u>39.0</u>	822	39.0							
447.dealII	4	792	57.8	770	59.5	<u>781</u>	<u>58.6</u>							
450.soplex	4	<u>1469</u>	<u>22.7</u>	1468	22.7	1479	22.5							
453.povray	4	402	52.9	<u>402</u>	<u>52.9</u>	402	52.9							
454.calculix	4	870	37.9	874	37.8	<u>873</u>	<u>37.8</u>							
459.GemsFDTD	4	2301	18.4	<u>2298</u>	<u>18.5</u>	2297	18.5							
465.tonto	4	1116	35.3	1123	35.0	<u>1119</u>	<u>35.2</u>							
470.lbm	4	2534	21.7	2544	21.6	<u>2543</u>	<u>21.6</u>							
481.wrf	4	1297	34.4	1296	34.5	<u>1297</u>	<u>34.5</u>							
482.sphinx3	4	2459	31.7	2433	32.0	<u>2458</u>	<u>31.7</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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