



# SPEC® CFP2006 Result

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## Dell Inc.

PowerEdge 2900 (Intel Xeon processor E5320, 1.86 GHz)

SPECfp®\_rate2006 = Not Run

SPECfp\_rate\_base2006 = 44.1

CPU2006 license: 55

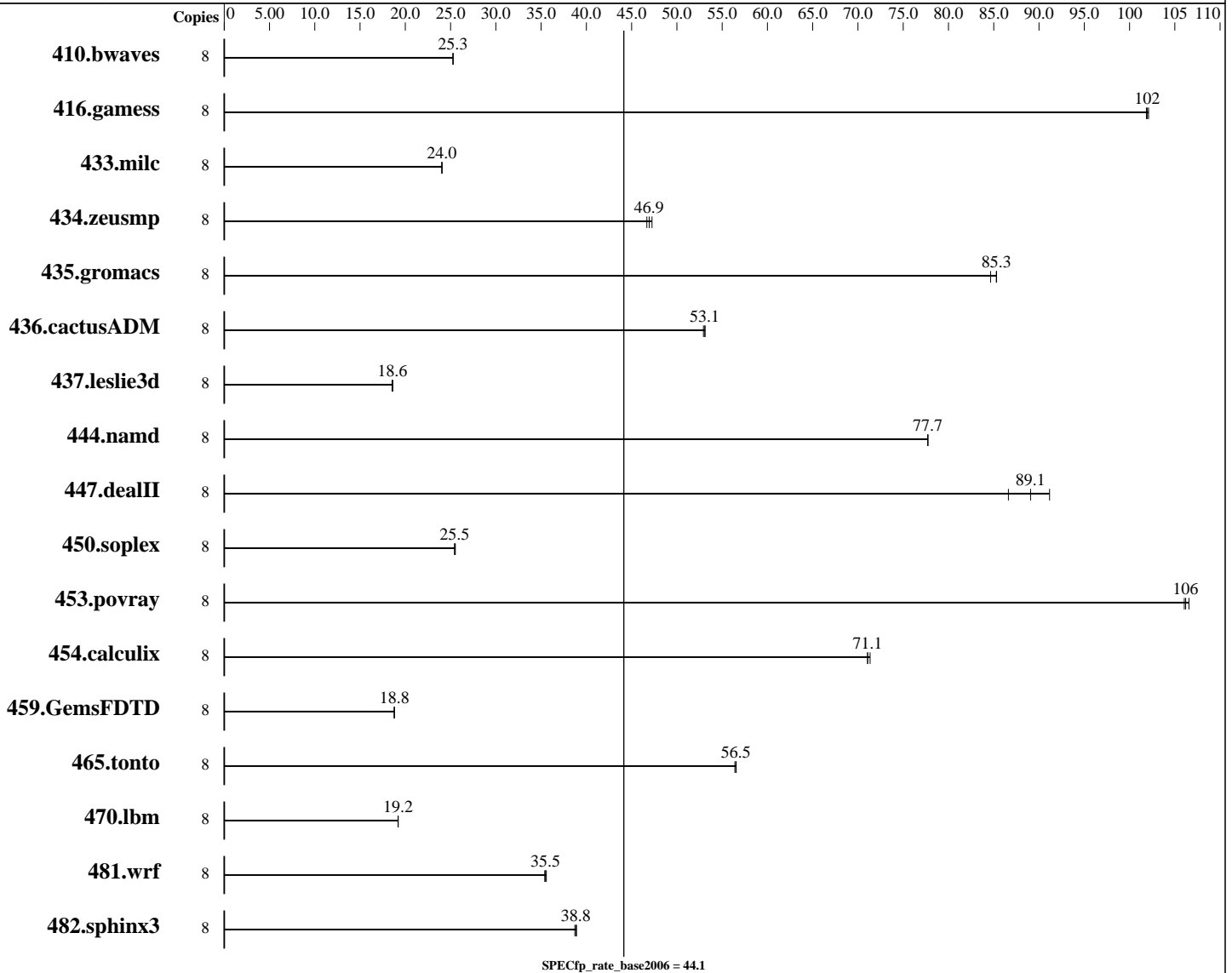
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Dec-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon E5320  
 CPU Characteristics: 1066 MHz Bus Speed  
 CPU MHz: 1866  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

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### Software

Operating System: SuSE Linux Enterprise Server 10 EM64T kernel 2.6.16.21-0.8-smpt  
 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: ext2  
System State: Multi-user 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	8	4301	25.3	4302	25.3	<b>4302</b>	<b>25.3</b>							
416.gamess	8	<b>1536</b>	<b>102</b>	1534	102	1538	102							
433.milc	8	3055	24.0	<b>3054</b>	<b>24.0</b>	3053	24.1							
434.zeusmp	8	1541	47.3	<b>1551</b>	<b>46.9</b>	1559	46.7							
435.gromacs	8	<b>670</b>	<b>85.3</b>	675	84.7	670	85.3							
436.cactusADM	8	1806	52.9	1800	53.1	<b>1801</b>	<b>53.1</b>							
437.leslie3d	8	4039	18.6	<b>4043</b>	<b>18.6</b>	4057	18.5							
444.namd	8	826	77.7	<b>826</b>	<b>77.7</b>	825	77.7							
447.dealII	8	<b>1028</b>	<b>89.1</b>	1004	91.2	1057	86.6							
450.soplex	8	2614	25.5	2623	25.4	<b>2620</b>	<b>25.5</b>							
453.povray	8	<b>401</b>	<b>106</b>	399	107	401	106							
454.calculix	8	925	71.3	<b>929</b>	<b>71.1</b>	929	71.1							
459.GemsFDTD	8	4520	18.8	4517	18.8	<b>4517</b>	<b>18.8</b>							
465.tonto	8	<b>1393</b>	<b>56.5</b>	1396	56.4	1392	56.5							
470.lbm	8	5724	19.2	5722	19.2	<b>5723</b>	<b>19.2</b>							
481.wrf	8	2512	35.6	2524	35.4	<b>2518</b>	<b>35.5</b>							
482.sphinx3	8	4026	38.7	4007	38.9	<b>4013</b>	<b>38.8</b>							

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

## Platform Notes

Hardware Prefetcher disabled in BIOS  
Adjacent Cache Line Prefetch disabled 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/dell-ic91-flags.html>

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

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



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

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