



# SPEC<sup>®</sup> CFP2006 Result

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## Dell Inc.

PowerEdge 2950 (Intel Xeon processor E5320, 1.86 GHz)

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

SPECfp\_rate\_base2006 = 44.2

CPU2006 license: 55

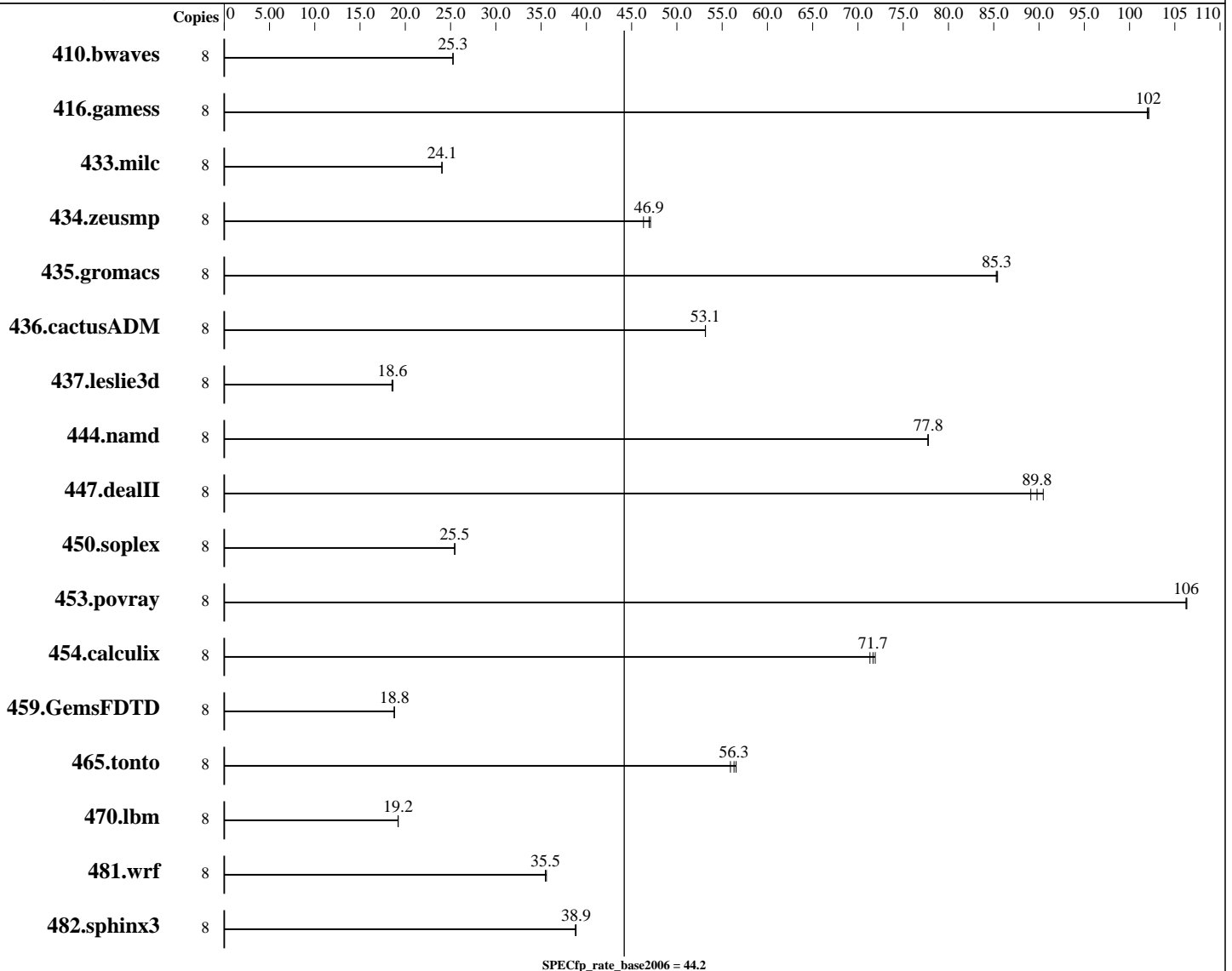
Test sponsor: Dell Inc.

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	4302	25.3	4303	25.3	<b>4302</b>	<b>25.3</b>							
416.gamess	8	1536	102	<b>1534</b>	<b>102</b>	1534	102							
433.milc	8	3055	24.0	<b>3053</b>	<b>24.1</b>	3053	24.1							
434.zeusmp	8	<b>1551</b>	<b>46.9</b>	1572	46.3	1546	47.1							
435.gromacs	8	669	85.4	670	85.3	<b>669</b>	<b>85.3</b>							
436.cactusADM	8	1798	53.2	<b>1799</b>	<b>53.1</b>	1799	53.1							
437.leslie3d	8	4059	18.5	<b>4047</b>	<b>18.6</b>	4034	18.6							
444.namd	8	826	77.7	825	77.8	<b>825</b>	<b>77.8</b>							
447.dealII	8	1012	90.5	<b>1019</b>	<b>89.8</b>	1027	89.1							
450.soplex	8	<b>2620</b>	<b>25.5</b>	2621	25.5	2620	25.5							
453.povray	8	<b>401</b>	<b>106</b>	400	106	401	106							
454.calculix	8	<b>921</b>	<b>71.7</b>	925	71.3	918	71.9							
459.GemsFDTD	8	<b>4517</b>	<b>18.8</b>	4519	18.8	4517	18.8							
465.tonto	8	1392	56.5	1408	55.9	<b>1398</b>	<b>56.3</b>							
470.lbm	8	5724	19.2	<b>5723</b>	<b>19.2</b>	5723	19.2							
481.wrf	8	2519	35.5	<b>2518</b>	<b>35.5</b>	2511	35.6							
482.sphinx3	8	<b>4012</b>	<b>38.9</b>	4020	38.8	4012	38.9							

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

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