



# SPEC<sup>®</sup> CFP2006 Result

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## Dell Inc.

PowerEdge 2900 (Intel Xeon processor 5110, 1.60GHz)

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

### SPECfp\_rate\_base2006 = 30.5

CPU2006 license: 55

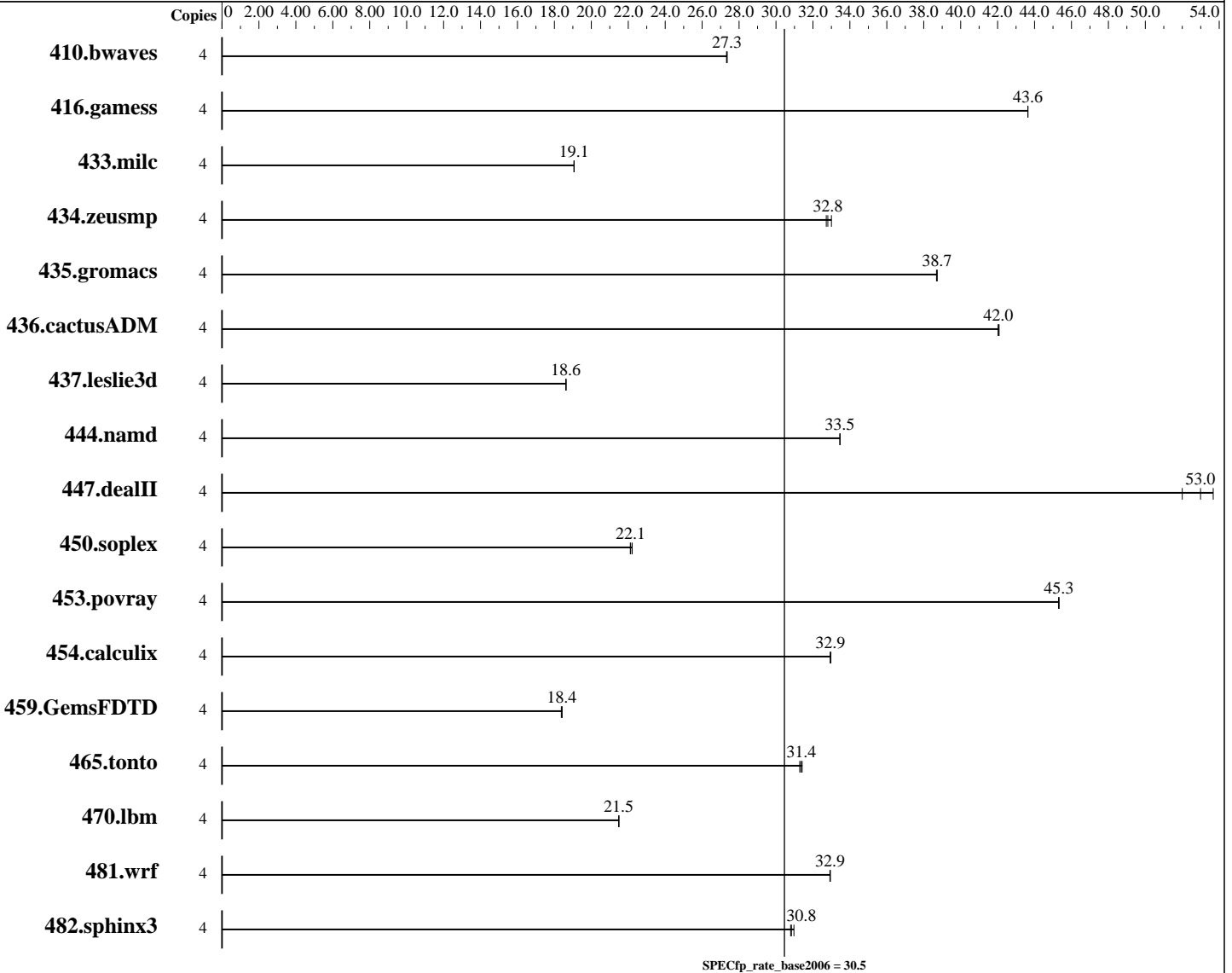
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Jul-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon 5110  
 CPU Characteristics: 1066 MHz Bus Speed  
 CPU MHz: 1600  
 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	1990	27.3	<u>1988</u>	<u>27.3</u>	1987	27.4							
416.gamess	4	1795	43.6	<u>1795</u>	<u>43.6</u>	1795	43.6							
433.milc	4	1926	19.1	1926	19.1	<u>1926</u>	<u>19.1</u>							
434.zeusmp	4	<u>1110</u>	<u>32.8</u>	1103	33.0	1112	32.7							
435.gromacs	4	738	38.7	738	38.7	<u>738</u>	<u>38.7</u>							
436.cactusADM	4	1136	42.1	1137	42.0	<u>1137</u>	<u>42.0</u>							
437.leslie3d	4	<u>2020</u>	<u>18.6</u>	2017	18.6	2020	18.6							
444.namd	4	959	33.5	<u>959</u>	<u>33.5</u>	958	33.5							
447.dealII	4	880	52.0	853	53.7	<u>864</u>	<u>53.0</u>							
450.soplex	4	1502	22.2	1509	22.1	<u>1507</u>	<u>22.1</u>							
453.povray	4	<u>470</u>	<u>45.3</u>	470	45.3	470	45.3							
454.calculix	4	<u>1002</u>	<u>32.9</u>	1002	32.9	1001	33.0							
459.GemsFDTD	4	2310	18.4	2305	18.4	<u>2305</u>	<u>18.4</u>							
465.tonto	4	<u>1255</u>	<u>31.4</u>	1253	31.4	1258	31.3							
470.lbm	4	2559	21.5	2557	21.5	<u>2558</u>	<u>21.5</u>							
481.wrf	4	1356	32.9	1357	32.9	<u>1357</u>	<u>32.9</u>							
482.sphinx3	4	2517	31.0	<u>2528</u>	<u>30.8</u>	2532	30.8							

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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