



# SPEC® CFP2006 Result

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## Dell Inc.

PowerEdge 2950 (Intel Xeon processor E5345, 2.33 GHz)

SPECfp®\_rate2006 = Not Run

SPECfp\_rate\_base2006 = 55.0

CPU2006 license: 55

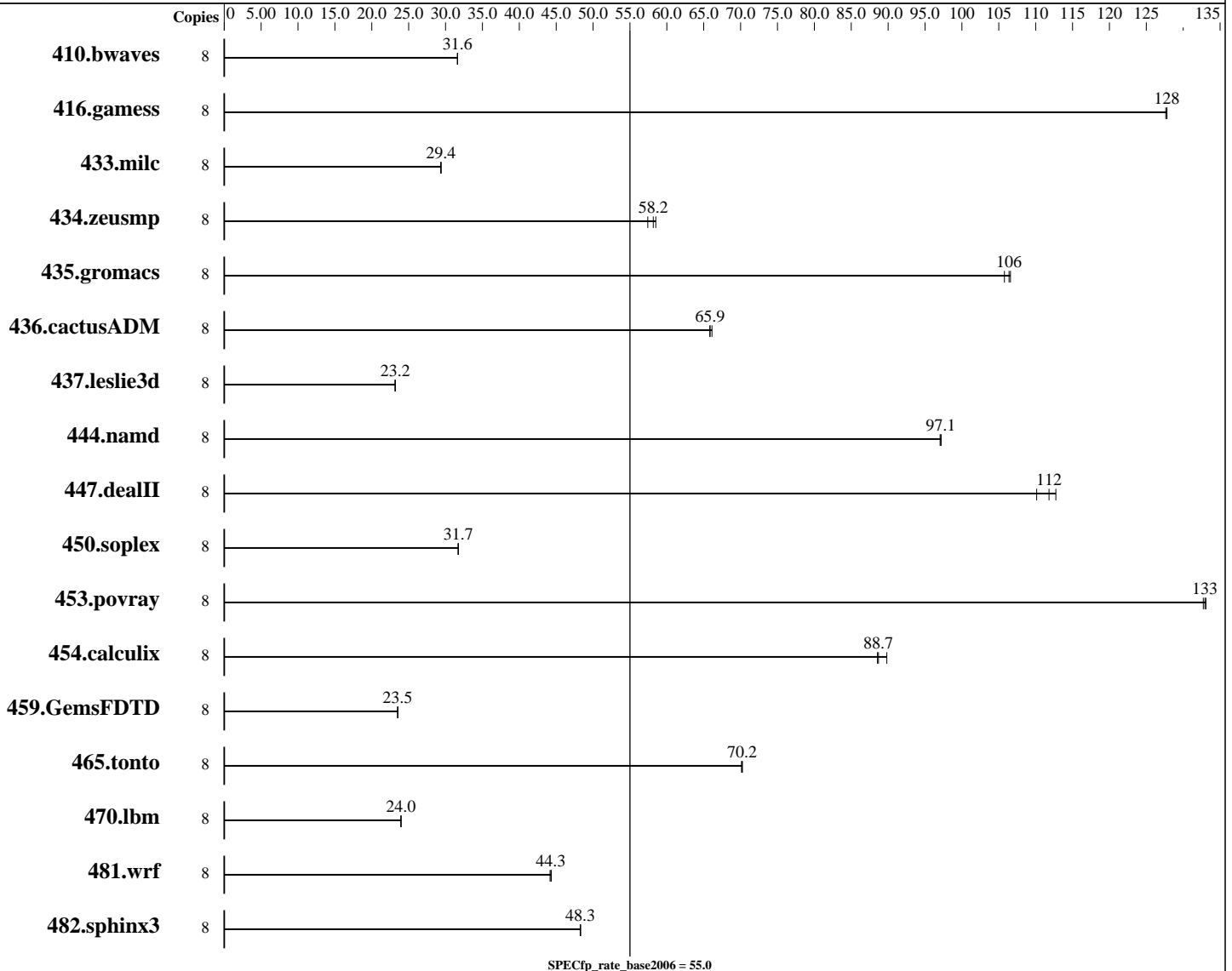
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Dec-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Xeon E5345  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 2333  
 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-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: 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	3437	31.6	<b><u>3439</u></b>	<b><u>31.6</u></b>	3439	31.6							
416.gamess	8	1226	128	1227	128	<b><u>1226</u></b>	<b><u>128</u></b>							
433.milc	8	2498	29.4	2503	29.3	<b><u>2500</u></b>	<b><u>29.4</u></b>							
434.zeusmp	8	1244	58.5	<b><u>1252</u></b>	<b><u>58.2</u></b>	1268	57.4							
435.gromacs	8	<b><u>537</u></b>	<b><u>106</u></b>	540	106	536	107							
436.cactusADM	8	1446	66.1	1452	65.8	<b><u>1452</u></b>	<b><u>65.9</u></b>							
437.leslie3d	8	3248	23.2	<b><u>3244</u></b>	<b><u>23.2</u></b>	3242	23.2							
444.namd	8	<b><u>660</u></b>	<b><u>97.1</u></b>	660	97.2	661	97.0							
447.dealII	8	831	110	812	113	<b><u>819</u></b>	<b><u>112</u></b>							
450.soplex	8	2106	31.7	2101	31.8	<b><u>2102</u></b>	<b><u>31.7</u></b>							
453.povray	8	320	133	<b><u>320</u></b>	<b><u>133</u></b>	321	133							
454.calculix	8	735	89.8	<b><u>744</u></b>	<b><u>88.7</u></b>	745	88.5							
459.GemsFDTD	8	3609	23.5	3609	23.5	<b><u>3609</u></b>	<b><u>23.5</u></b>							
465.tonto	8	<b><u>1121</u></b>	<b><u>70.2</u></b>	1121	70.2	1123	70.1							
470.lbm	8	<b><u>4588</u></b>	<b><u>24.0</u></b>	4587	24.0	4589	24.0							
481.wrf	8	<b><u>2018</u></b>	<b><u>44.3</u></b>	2015	44.3	2023	44.2							
482.sphinx3	8	3227	48.3	3231	48.3	<b><u>3230</u></b>	<b><u>48.3</u></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 questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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