



# SPEC® CFP2006 Result

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## Dell Inc.

### SPECfp®\_rate2006 = Not Run

### PowerEdge 2970 (AMD Opteron 2222 SE, 3.00GHz)

### SPECfp\_rate\_base2006 = 48.2

CPU2006 license: 55

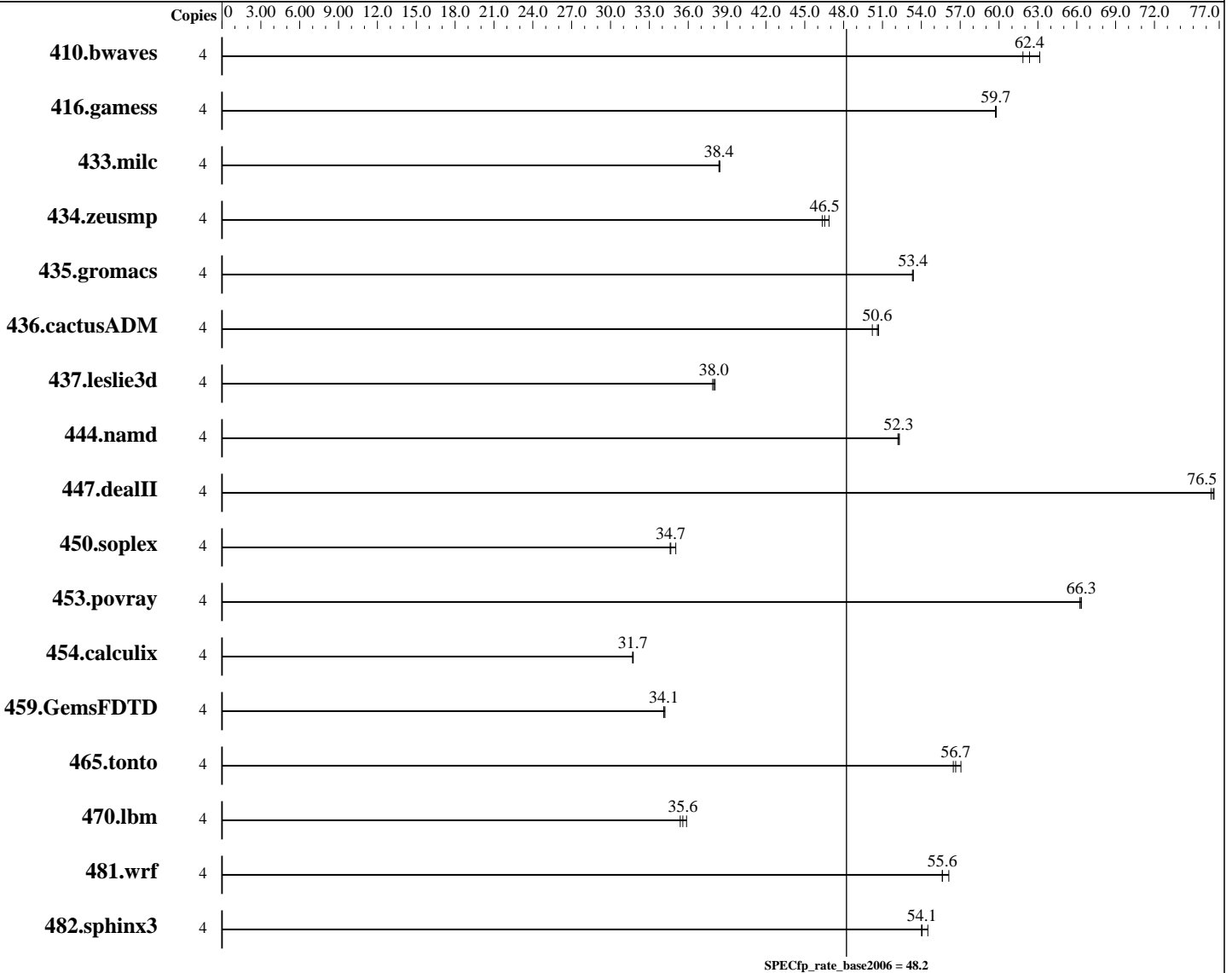
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Apr-2007

Software Availability: Aug-2006



#### Hardware

CPU Name: AMD Opteron 2222 SE  
 CPU Characteristics:  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 64 KB I + 64 KB D on chip per core  
 Secondary Cache: 1 MB I+D on chip per core

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#### Software

Operating System: SuSE Linux Enterprise Server 10 64-bit kernel  
 Compiler: QLogic PathScale  
 Compiler Suite, Release 2.5  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Multi-user, run level 3  
 Base Pointers: 64-bit  
 Peak Pointers: Not Applicable

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L3 Cache: None  
Other Cache: None  
Memory: 16 GB (8x2GB, DDR2-667 CL5 ECC Dual Rank)  
Disk Subsystem: SAS, 73 GB  
Other Hardware: None

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	861	63.1	<b>872</b>	<b>62.4</b>	879	61.8							
416.gamess	4	1311	59.7	<b>1311</b>	<b>59.7</b>	1310	59.8							
433.milc	4	957	38.4	955	38.4	<b>957</b>	<b>38.4</b>							
434.zeusmp	4	777	46.9	785	46.3	<b>782</b>	<b>46.5</b>							
435.gromacs	4	535	53.4	536	53.3	<b>535</b>	<b>53.4</b>							
436.cactusADM	4	952	50.2	943	50.7	<b>944</b>	<b>50.6</b>							
437.leslie3d	4	987	38.1	992	37.9	<b>990</b>	<b>38.0</b>							
444.namd	4	615	52.2	613	52.3	<b>614</b>	<b>52.3</b>							
447.dealII	4	<b>598</b>	<b>76.5</b>	597	76.6	599	76.4							
450.soplex	4	952	35.0	<b>963</b>	<b>34.7</b>	964	34.6							
453.povray	4	321	66.2	321	66.4	<b>321</b>	<b>66.3</b>							
454.calculix	4	1039	31.8	<b>1040</b>	<b>31.7</b>	1041	31.7							
459.GemsFDTD	4	1241	34.2	<b>1244</b>	<b>34.1</b>	1244	34.1							
465.tonto	4	690	57.1	697	56.5	<b>695</b>	<b>56.7</b>							
470.lbm	4	1532	35.9	<b>1545</b>	<b>35.6</b>	1553	35.4							
481.wrf	4	796	56.1	<b>803</b>	<b>55.6</b>	803	55.6							
482.sphinx3	4	1430	54.5	<b>1442</b>	<b>54.1</b>	1443	54.0							

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

## General Notes

Taskset utility used to bind CPU(s) to processes  
Binaries were built on SuSE Linux Enterprise Server 9 SP3 64-bit

## Base Compiler Invocation

C benchmarks:  
pathcc

C++ benchmarks:  
pathCC

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## Base Compiler Invocation (Continued)

Fortran benchmarks:  
pathf95

Benchmarks using both Fortran and C:  
pathcc pathf95

## 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  
 436.cactusADM: -DSPEC\_CPU\_LP64 -fno-second-underscore  
 437.leslie3d: -DSPEC\_CPU\_LP64  
 444.namd: -DSPEC\_CPU\_LP64  
 447.dealII: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_TABLE\_WORKAROUND  
 450.soplex: -DSPEC\_CPU\_LP64  
 453.povray: -DSPEC\_CPU\_LP64  
 454.calculix: -DSPEC\_CPU\_LP64  
 459.GemsFDTD: -DSPEC\_CPU\_LP64  
 465.tonto: -DSPEC\_CPU\_LP64  
 470.lbm: -DSPEC\_CPU\_LP64  
 481.wrf: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_LINUX -fno-second-underscore  
 482.sphinx3: -DSPEC\_CPU\_LP64

## Base Optimization Flags

C benchmarks:  
-Ofast

C++ benchmarks:  
-Ofast

Fortran benchmarks:  
-Ofast

Benchmarks using both Fortran and C:  
-Ofast

## Base Other Flags

C benchmarks:  
-IPA:max\_jobs=2

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## Base Other Flags (Continued)

C++ benchmarks:

-IPA:max\_jobs=2

Fortran benchmarks:

-IPA:max\_jobs=2

Benchmarks using both Fortran and C:

-IPA:max\_jobs=2

The flags file that was used to format this result can be browsed at

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.25.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.25.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.25.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.25.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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