



# SPEC® CFP2006 Result

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## Dell Inc.

### SPECfp®\_rate2006 = Not Run

### PowerEdge 6950 (AMD Opteron 8222 SE, 3.00GHz)

### SPECfp\_rate\_base2006 = 93.0

CPU2006 license: 55

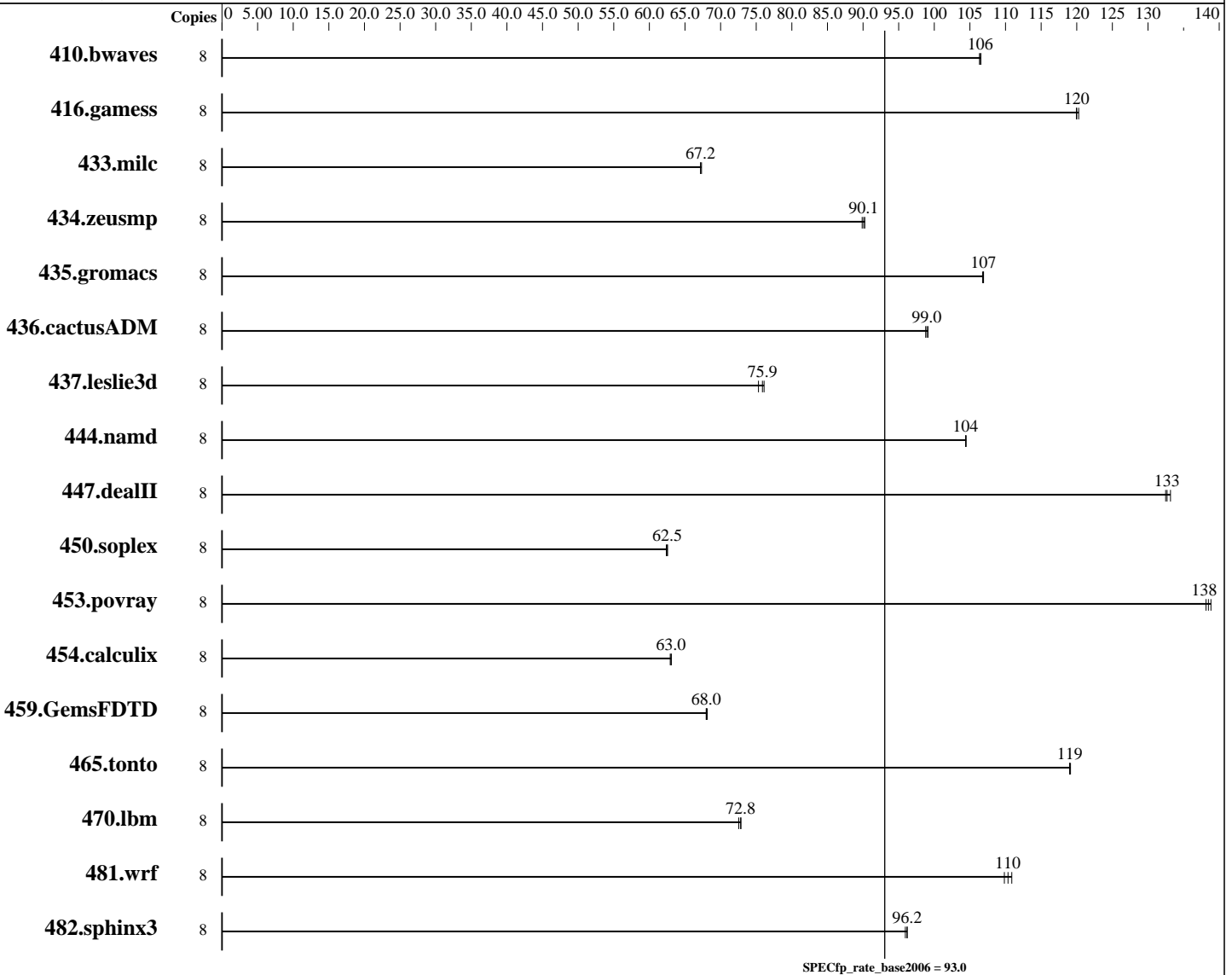
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Apr-2007

Hardware Availability: Apr-2007

Software Availability: Feb-2007



#### Hardware

CPU Name: AMD Opteron 8222 SE  
 CPU Characteristics:  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip  
 CPU(s) orderable: 2,4 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 3.0  
 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: 32 GB (16x2GB, 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	8	<b>1021</b>	<b>106</b>	1020	107	1022	106							
416.gamess	8	1306	120	<b>1305</b>	<b>120</b>	1302	120							
433.milc	8	<b>1093</b>	<b>67.2</b>	1093	67.2	1091	67.3							
434.zeusmp	8	807	90.2	810	89.9	<b>808</b>	<b>90.1</b>							
435.gromacs	8	535	107	534	107	<b>534</b>	<b>107</b>							
436.cactusADM	8	968	98.8	<b>966</b>	<b>99.0</b>	965	99.1							
437.leslie3d	8	988	76.1	998	75.3	<b>991</b>	<b>75.9</b>							
444.namd	8	614	104	615	104	<b>615</b>	<b>104</b>							
447.dealII	8	<b>690</b>	<b>133</b>	687	133	691	132							
450.soplex	8	<b>1067</b>	<b>62.5</b>	1070	62.4	1067	62.5							
453.povray	8	308	138	<b>307</b>	<b>138</b>	307	139							
454.calculix	8	1046	63.1	1049	62.9	<b>1047</b>	<b>63.0</b>							
459.GemsFDTD	8	1246	68.1	<b>1248</b>	<b>68.0</b>	1249	68.0							
465.tonto	8	<b>661</b>	<b>119</b>	661	119	662	119							
470.lbm	8	1515	72.6	1509	72.9	<b>1510</b>	<b>72.8</b>							
481.wrf	8	<b>810</b>	<b>110</b>	806	111	814	110							
482.sphinx3	8	1621	96.2	<b>1621</b>	<b>96.2</b>	1625	95.9							

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

## General Notes

Taskset utility used to bind cores to processes

## Base Compiler Invocation

C benchmarks:  
pathcc

C++ benchmarks:  
pathCC

Fortran benchmarks:  
pathf95

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## Base Compiler Invocation (Continued)

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
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 -OPT:malloc\_alg=1

Benchmarks using both Fortran and C:  
-Ofast -OPT:malloc\_alg=1

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.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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