SPEC® CFP2006 Result

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Dell Inc.

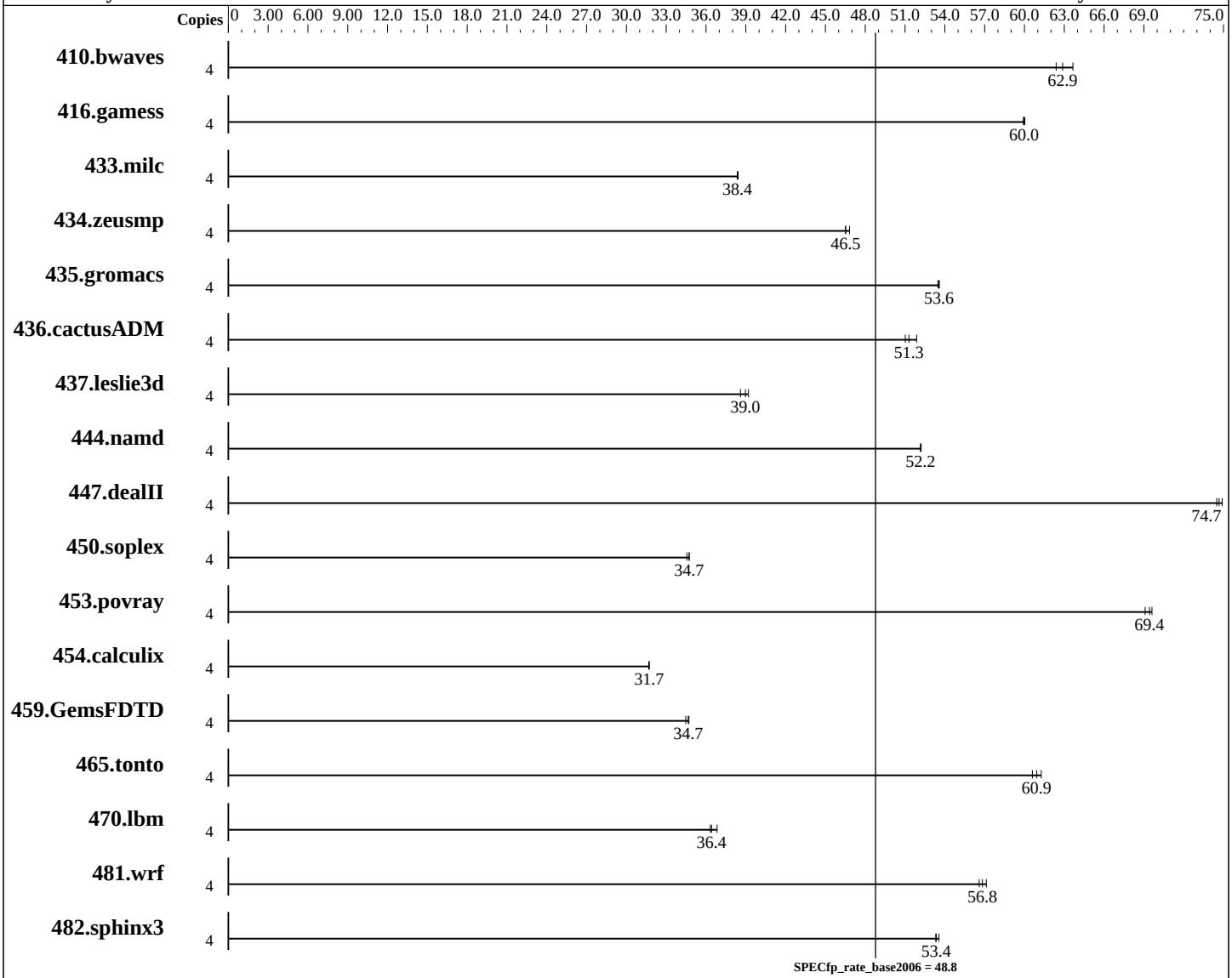
PowerEdge 2970 (AMD Opteron 2222 SE, 3.00GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 48.8

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 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 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: 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	854	63.7	**864**	**62.9**	871	62.4							
416.gamess	4	**1306**	**60.0**	1305	60.0	1307	59.9							
433.milc	4	957	38.4	**957**	**38.4**	956	38.4							
434.zeusmp	4	783	46.5	778	46.8	**782**	**46.5**							
435.gromacs	4	534	53.5	533	53.6	**533**	**53.6**							
436.cactusADM	4	937	51.0	921	51.9	**932**	**51.3**							
437.leslie3d	4	959	39.2	**965**	**39.0**	974	38.6							
444.namd	4	**615**	**52.2**	615	52.2	614	52.2							
447.dealII	4	**613**	**74.7**	611	74.9	614	74.5							
450.soplex	4	960	34.7	**961**	**34.7**	965	34.6							
453.povray	4	308	69.1	**306**	**69.4**	306	69.6							
454.calculix	4	1040	31.7	**1041**	**31.7**	1042	31.7							
459.GemsFDTD	4	1231	34.5	1223	34.7	**1225**	**34.7**							
465.tonto	4	642	61.3	650	60.6	**646**	**60.9**							
470.lbm	4	1492	36.8	**1509**	**36.4**	1513	36.3							
481.wrf	4	782	57.1	**786**	**56.8**	790	56.6							
482.sphinx3	4	**1461**	**53.4**	1456	53.6	1462	53.3							

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

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

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