



SPEC[®] CFP2006 Result

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Dell Inc.

SPECfp[®]_rate2006 = Not Run

PowerEdge 2970 (AMD Opteron 2220, 2.80GHz)

SPECfp_rate_base2006 = 45.1

CPU2006 license: 55

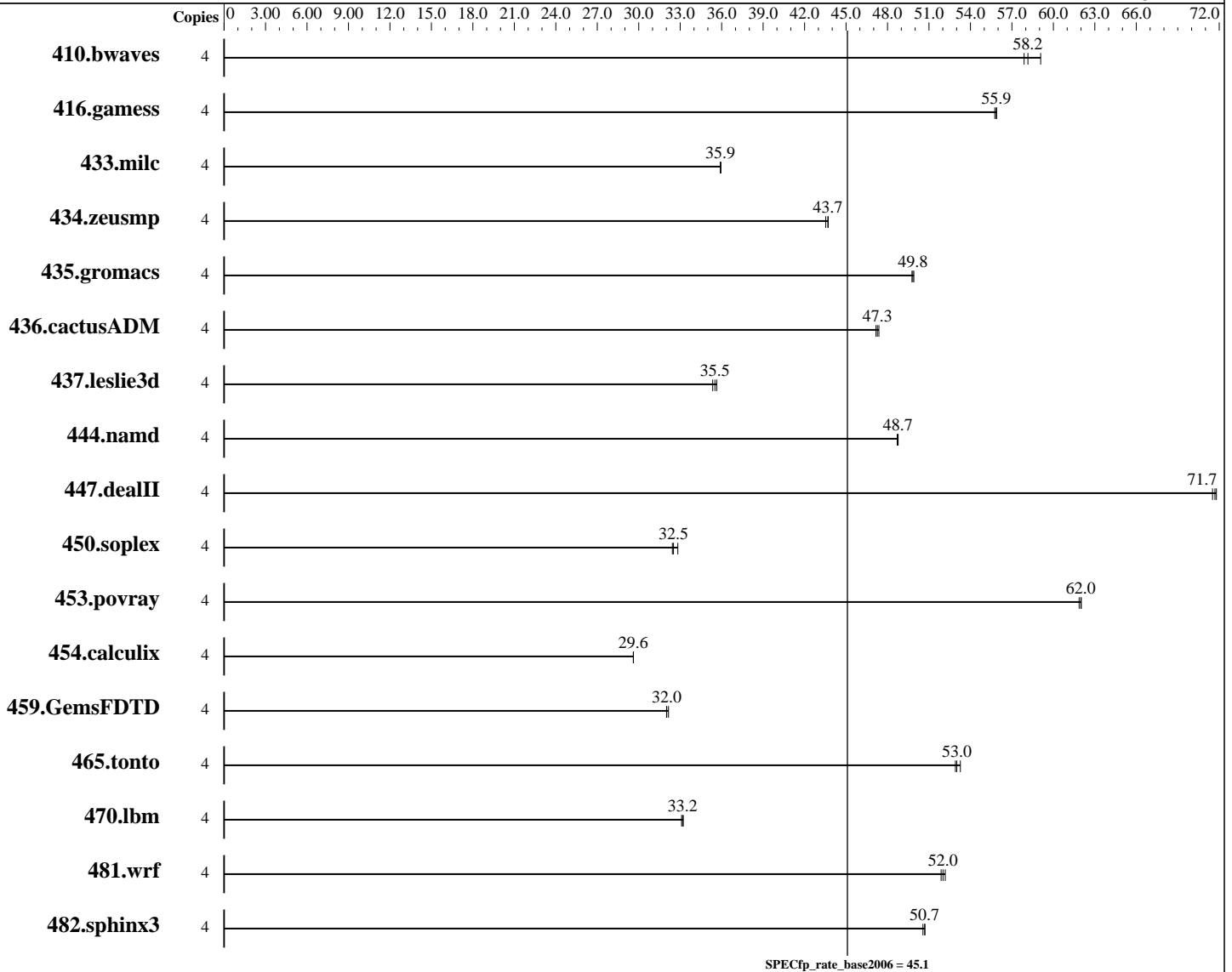
Test date: Mar-2007

Test sponsor: Dell Inc.

Hardware Availability: Apr-2007

Tested by: Dell Inc.

Software Availability: Aug-2006



Hardware

CPU Name: AMD Opteron 2220
 CPU Characteristics:
 CPU MHz: 2800
 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	920	59.1	<u>935</u>	<u>58.2</u>	939	57.9							
416.gamess	4	1405	55.8	1401	55.9	<u>1402</u>	<u>55.9</u>							
433.milc	4	1022	35.9	<u>1022</u>	<u>35.9</u>	1023	35.9							
434.zeusmp	4	<u>833</u>	<u>43.7</u>	836	43.5	833	43.7							
435.gromacs	4	<u>573</u>	<u>49.8</u>	574	49.8	572	49.9							
436.cactusADM	4	1009	47.4	1013	47.2	<u>1011</u>	<u>47.3</u>							
437.leslie3d	4	1055	35.6	1064	35.4	<u>1059</u>	<u>35.5</u>							
444.namd	4	<u>658</u>	<u>48.7</u>	658	48.8	659	48.7							
447.dealII	4	637	71.8	640	71.5	<u>638</u>	<u>71.7</u>							
450.soplex	4	1016	32.8	<u>1026</u>	<u>32.5</u>	1028	32.4							
453.povray	4	344	61.9	343	62.0	<u>343</u>	<u>62.0</u>							
454.calculix	4	1114	29.6	<u>1114</u>	<u>29.6</u>	1114	29.6							
459.GemsFDTD	4	<u>1325</u>	<u>32.0</u>	1320	32.2	1326	32.0							
465.tonto	4	739	53.3	<u>742</u>	<u>53.0</u>	744	52.9							
470.lbm	4	1654	33.2	<u>1657</u>	<u>33.2</u>	1660	33.1							
481.wrf	4	856	52.2	<u>859</u>	<u>52.0</u>	861	51.9							
482.sphinx3	4	<u>1538</u>	<u>50.7</u>	1538	50.7	1542	50.6							

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

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

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.

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