



SPEC[®] CFP2006 Result

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Dell Inc.

SPECfp[®]_rate2006 = Not Run

PowerEdge 2970 (AMD Opteron 2212 HE, 2.00GHz)

SPECfp_rate_base2006 = 37.3

CPU2006 license: 55

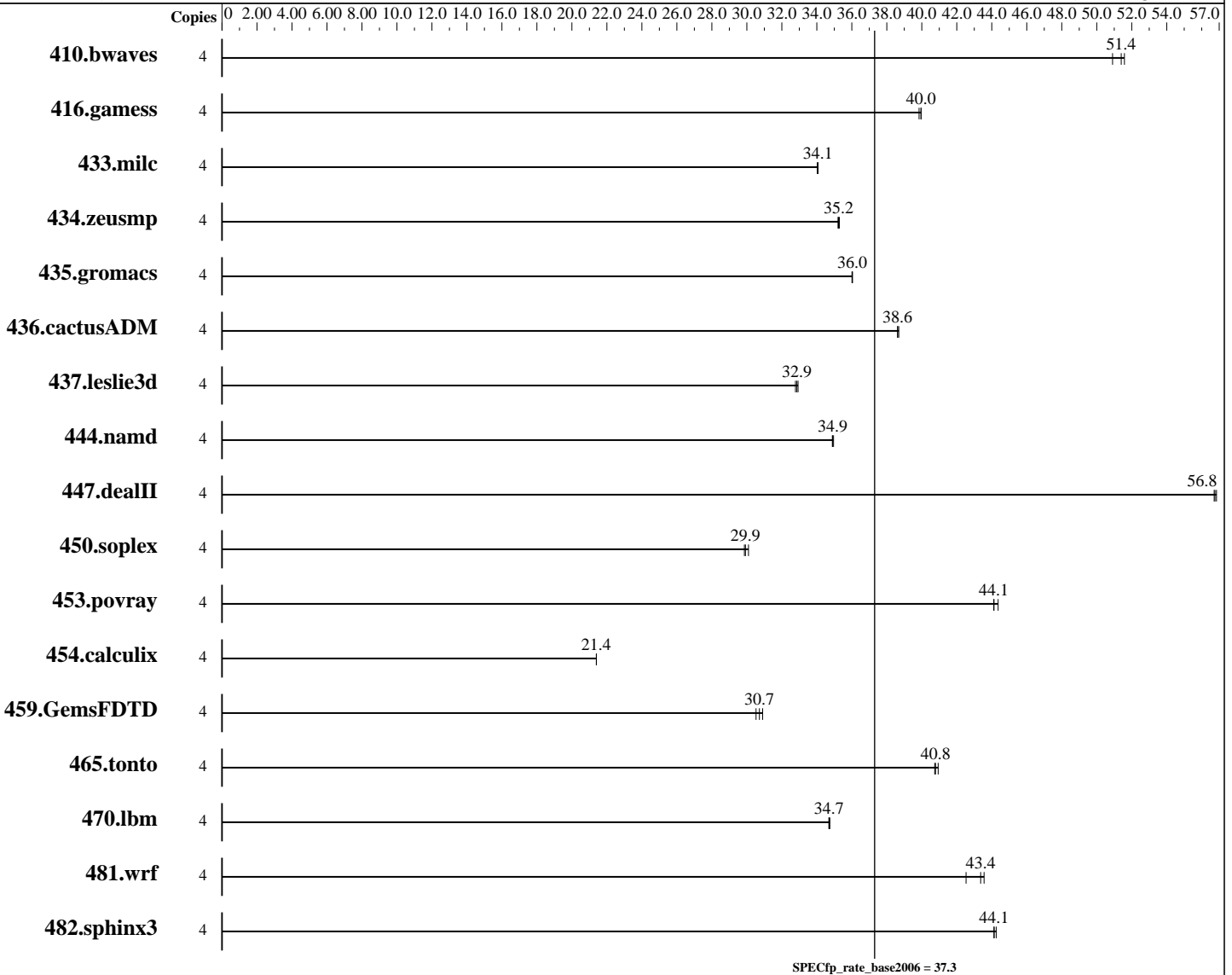
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Apr-2007

Software Availability: Aug-2006



Hardware

CPU Name: AMD Opteron 2212 HE
 CPU Characteristics:
 CPU MHz: 2000
 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	1054	51.6	<u>1058</u>	<u>51.4</u>	1068	50.9							
416.gamess	4	<u>1960</u>	<u>40.0</u>	1960	40.0	1966	39.8							
433.milc	4	1079	34.0	1078	34.1	<u>1078</u>	<u>34.1</u>							
434.zeusmp	4	1031	35.3	<u>1033</u>	<u>35.2</u>	1034	35.2							
435.gromacs	4	<u>793</u>	<u>36.0</u>	792	36.0	793	36.0							
436.cactusADM	4	1238	38.6	<u>1238</u>	<u>38.6</u>	1236	38.7							
437.leslie3d	4	1142	32.9	<u>1144</u>	<u>32.9</u>	1147	32.8							
444.namd	4	918	35.0	920	34.9	<u>919</u>	<u>34.9</u>							
447.dealII	4	807	56.7	<u>806</u>	<u>56.8</u>	805	56.8							
450.soplex	4	1109	30.1	<u>1115</u>	<u>29.9</u>	1117	29.9							
453.povray	4	<u>482</u>	<u>44.1</u>	480	44.4	482	44.1							
454.calculix	4	1542	21.4	1542	21.4	<u>1542</u>	<u>21.4</u>							
459.GemsFDTD	4	1373	30.9	<u>1382</u>	<u>30.7</u>	1390	30.5							
465.tonto	4	966	40.7	961	40.9	<u>965</u>	<u>40.8</u>							
470.lbm	4	<u>1584</u>	<u>34.7</u>	1582	34.7	1584	34.7							
481.wrf	4	1026	43.6	<u>1030</u>	<u>43.4</u>	1051	42.5							
482.sphinx3	4	1762	44.3	1767	44.1	<u>1766</u>	<u>44.1</u>							

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 other inquiries, please contact webmaster@spec.org.

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