



SPEC® CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Dell Inc.

SPECfp®_rate2006 = Not Run

PowerEdge 2970 (AMD Opteron 2216, 2.40GHz)

SPECfp_rate_base2006 = 40.7

CPU2006 license: 55

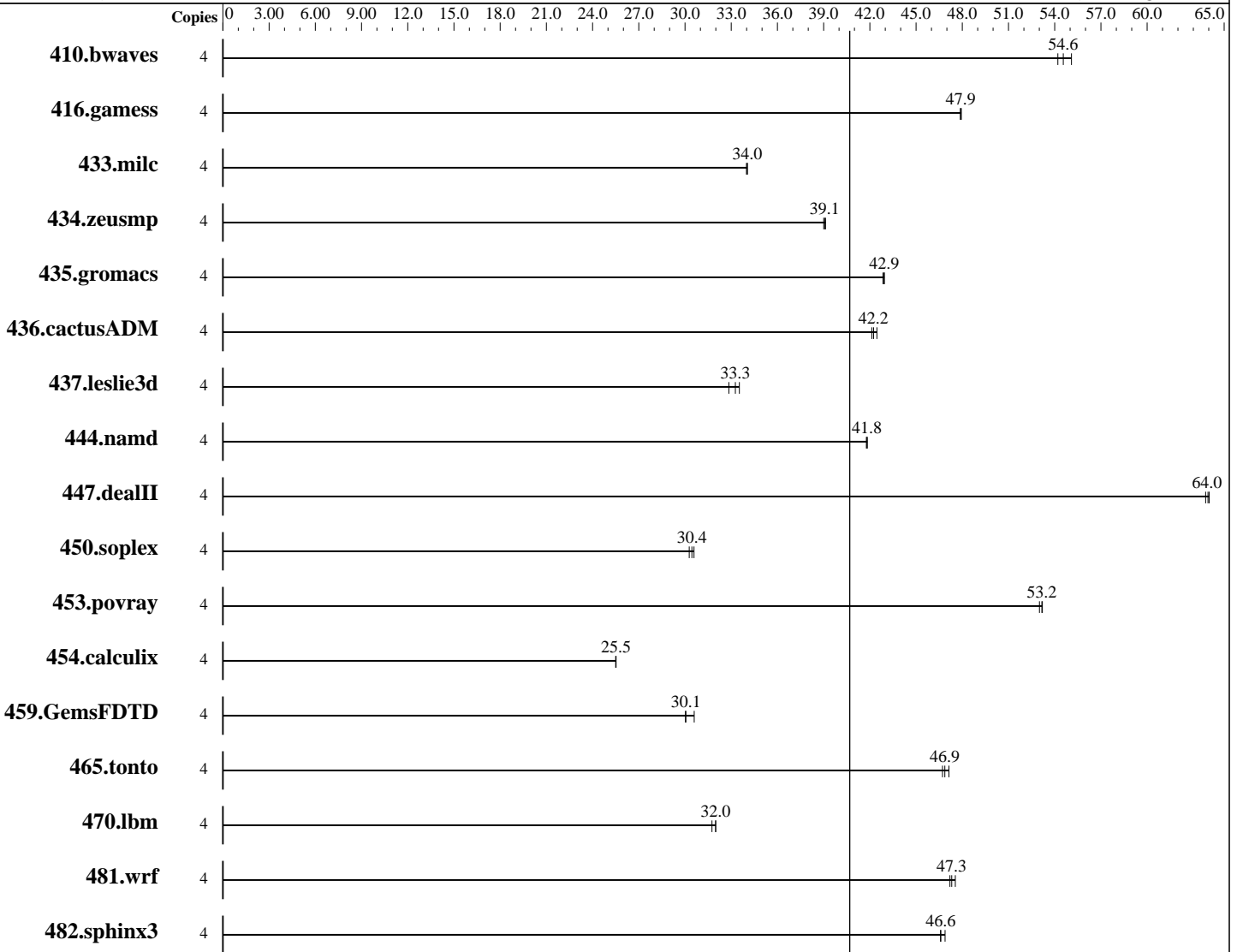
Test date: Mar-2007

Test sponsor: Dell Inc.

Hardware Availability: Apr-2007

Tested by: Dell Inc.

Software Availability: Aug-2006



SPECfp_rate_base2006 = 40.7

Hardware

CPU Name: AMD Opteron 2216
 CPU Characteristics:
 CPU MHz: 2400
 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

Continued on next page

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Dell Inc.

SPECfp_rate2006 = Not Run

PowerEdge 2970 (AMD Opteron 2216, 2.40GHz)

SPECfp_rate_base2006 = 40.7

CPU2006 license: 55

Test date: Mar-2007

Test sponsor: Dell Inc.

Hardware Availability: Apr-2007

Tested by: Dell Inc.

Software Availability: Aug-2006

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	987	55.1	996	54.6	1003	54.2									
416.gamess	4	1635	47.9	1636	47.9	1634	47.9									
433.milc	4	1080	34.0	1079	34.0	1079	34.0									
434.zeusmp	4	932	39.1	933	39.0	930	39.1									
435.gromacs	4	666	42.9	665	42.9	665	42.9									
436.cactusADM	4	1132	42.2	1126	42.5	1135	42.1									
437.leslie3d	4	1121	33.5	1130	33.3	1145	32.8									
444.namd	4	768	41.8	767	41.8	767	41.8									
447.dealII	4	715	64.0	716	64.0	717	63.8									
450.soplex	4	1091	30.6	1096	30.4	1102	30.3									
453.povray	4	400	53.2	400	53.2	401	53.0									
454.calculix	4	1294	25.5	1293	25.5	1293	25.5									
459.GemsFDTD	4	1412	30.1	1413	30.0	1387	30.6									
465.tonto	4	835	47.1	840	46.9	843	46.7									
470.lbm	4	1718	32.0	1718	32.0	1731	31.8									
481.wrf	4	940	47.5	947	47.2	944	47.3									
482.sphinx3	4	1663	46.9	1673	46.6	1673	46.6									

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Dell Inc.

SPECfp_rate2006 = Not Run

PowerEdge 2970 (AMD Opteron 2216, 2.40GHz)

SPECfp_rate_base2006 = 40.7

CPU2006 license: 55

Test date: Mar-2007

Test sponsor: Dell Inc.

Hardware Availability: Apr-2007

Tested by: Dell Inc.

Software Availability: Aug-2006

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2016 Standard Performance Evaluation Corporation

Dell Inc.

SPECfp_rate2006 = Not Run

PowerEdge 2970 (AMD Opteron 2216, 2.40GHz)

SPECfp_rate_base2006 = 40.7

CPU2006 license: 55

Test date: Mar-2007

Test sponsor: Dell Inc.

Hardware Availability: Apr-2007

Tested by: Dell Inc.

Software Availability: Aug-2006

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

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Sep 13 11:17:34 2016 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 3 April 2007.