SPEC® CFP2006 Result

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Dell Inc.

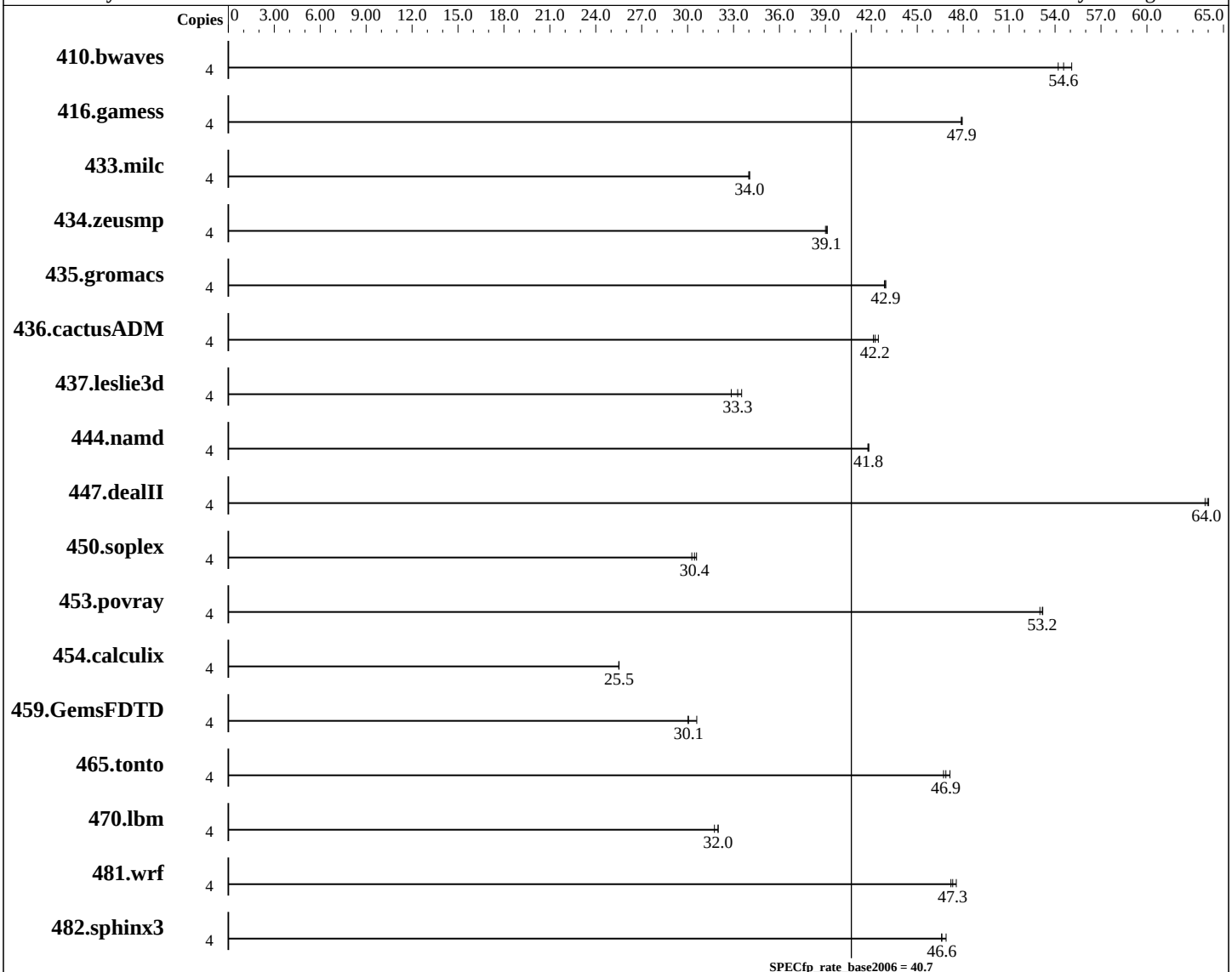
PowerEdge 2970 (AMD Opteron 2216, 2.40GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 40.7

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 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

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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	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`

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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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