SPEC® CFP2006 Result

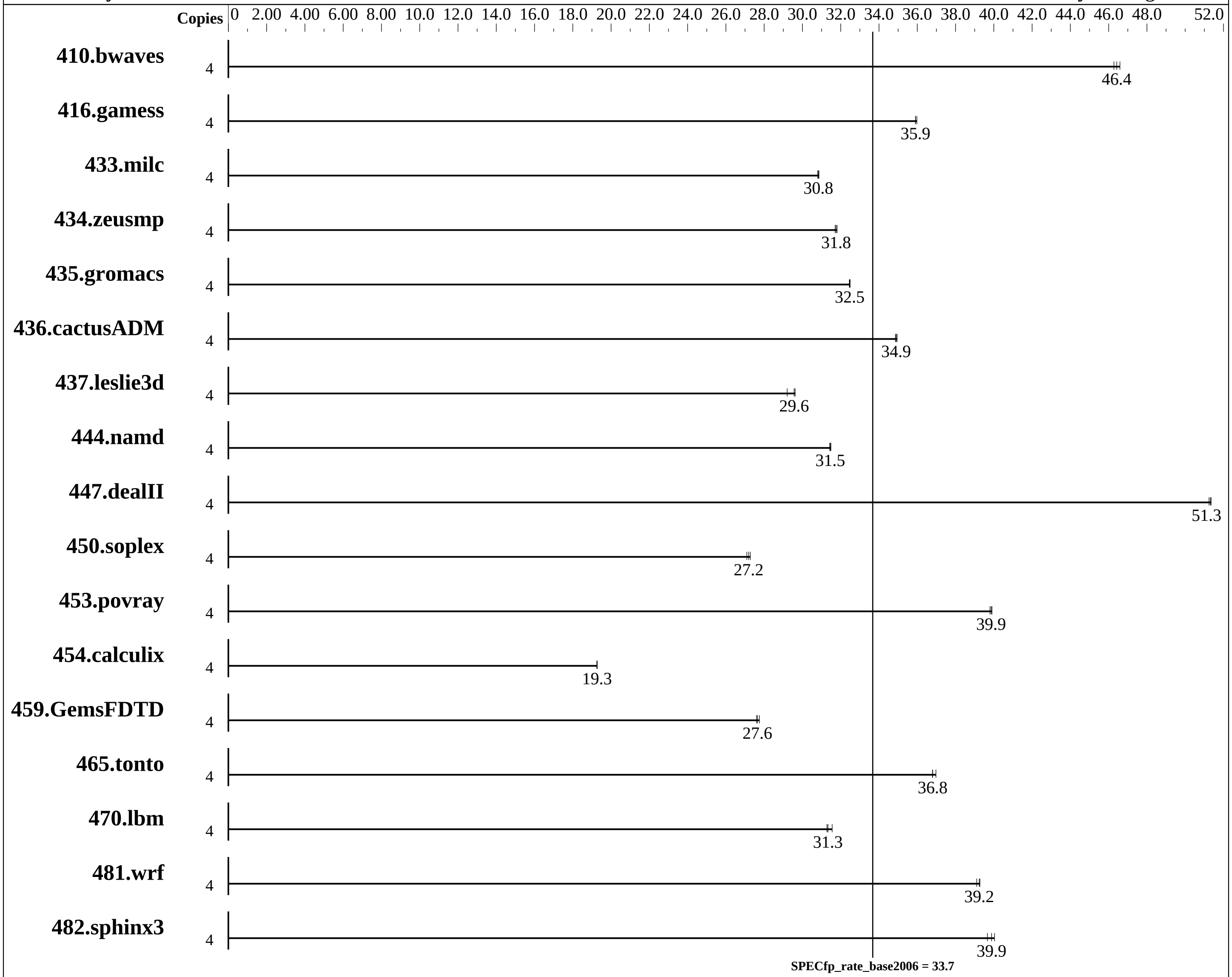
Dell Inc.

PowerEdge 2970 (AMD Opteron 2210, 1.80GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 33.7

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 2210
CPU Characteristics:	
CPU MHz:	1800
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	1167	46.6	**1171**	**46.4**	1175	46.3							
416.gamess	4	2181	35.9	**2181**	**35.9**	2177	36.0							
433.milc	4	**1191**	**30.8**	1190	30.9	1192	30.8							
434.zeusmp	4	1144	31.8	1148	31.7	**1146**	**31.8**							
435.gromacs	4	880	32.4	**879**	**32.5**	879	32.5							
436.cactusADM	4	1368	34.9	1371	34.9	**1370**	**34.9**							
437.leslie3d	4	1269	29.6	**1272**	**29.6**	1288	29.2							
444.namd	4	1021	31.4	**1020**	**31.5**	1019	31.5							
447.dealII	4	891	51.4	**892**	**51.3**	893	51.2							
450.soplex	4	1223	27.3	**1227**	**27.2**	1231	27.1							
453.povray	4	535	39.8	533	39.9	**534**	**39.9**							
454.calculix	4	**1713**	**19.3**	1712	19.3	1714	19.3							
459.GemsFDTD	4	1538	27.6	**1535**	**27.6**	1529	27.7							
465.tonto	4	1064	37.0	**1069**	**36.8**	1070	36.8							
470.lbm	4	1757	31.3	1742	31.6	**1754**	**31.3**							
481.wrf	4	1138	39.3	**1139**	**39.2**	1143	39.1							
482.sphinx3	4	1947	40.0	**1955**	**39.9**	1965	39.7							

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

Tested with SPEC CPU2006 v1.0.
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