SPEC® CFP2006 Result
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Dell Inc.

PowerEdge 2970 (AMD Opteron 2222 SE, 3.00GHz)

$SPECfp®\_rate2006 =$ Not Run

$SPECfp\_rate\_base2006 =$ 48.8

CPU2006 license: 55
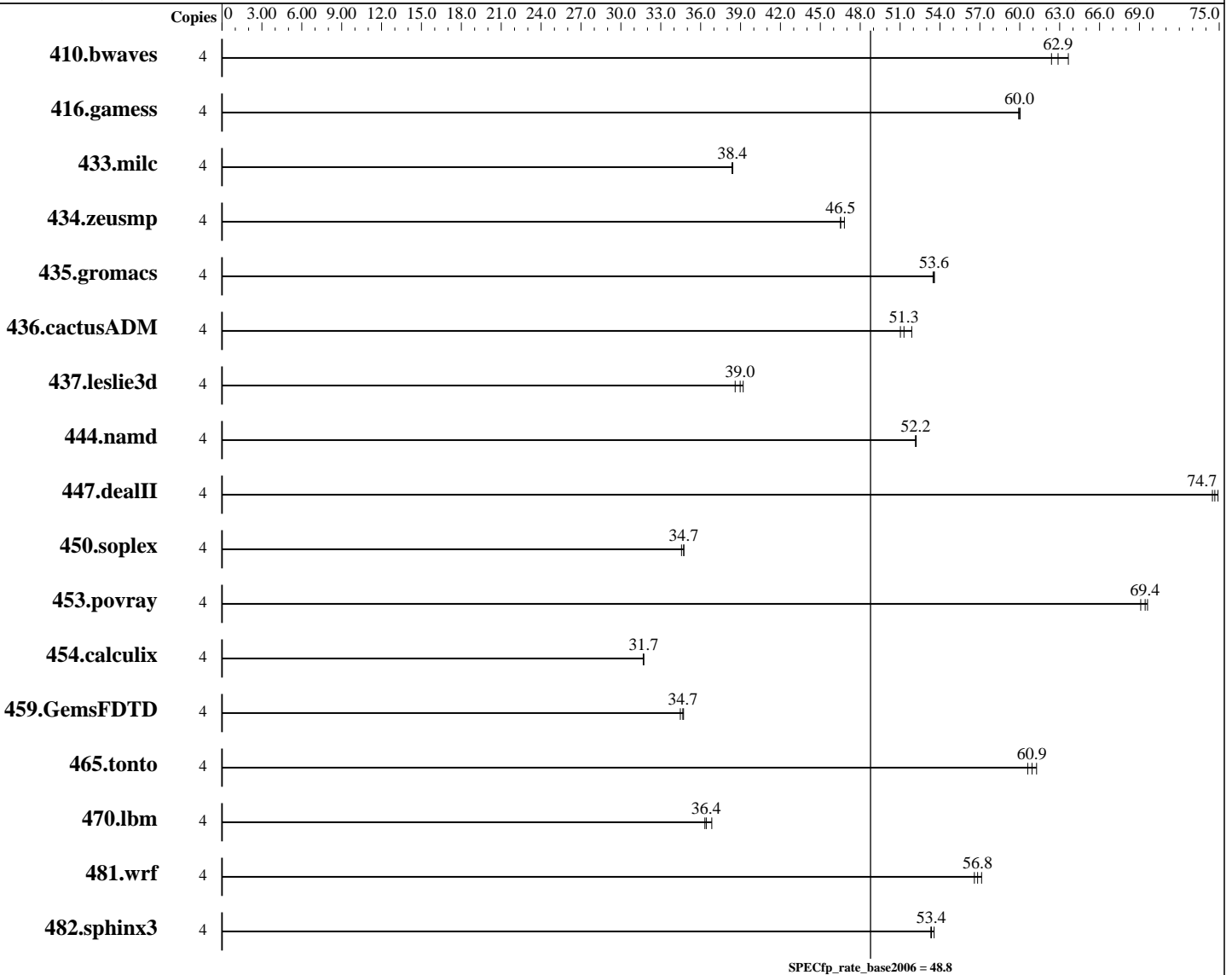**Test sponsor:** Dell Inc.
Tested by: Dell Inc.

Test date: Apr-2007
Hardware Availability: Apr-2007
Software Availability: Feb-2007

Benchmark	Copies	Result
410.bwaves	4	62.9
416.gamess	4	60.0
433.milc	4	38.4
434.zeusmp	4	46.5
435.gromacs	4	53.6
436.cactusADM	4	51.3
437.leslie3d	4	39.0
444.namd	4	52.2
447.dealII	4	74.7
450.soplex	4	34.7
453.povray	4	69.4
454.calculix	4	31.7
459.GemsFDTD	4	34.7
465.tonto	4	60.9
470.lbm	4	36.4
481.wrf	4	56.8
482.sphinx3	4	53.4

SPECfp_rate_base2006 = 48.8

Hardware

CPU Name:	AMD Opteron 2222 SE
CPU Characteristics:	
CPU MHz:	3000
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 3.0
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 Software: None
Other Cache: None	
Memory: 16 GB (8x2GB, DDR2-667 CL5 ECC Dual Rank)	
Disk Subsystem: SAS, 73 GB	
Other Hardware: None	

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	854	63.7	**864**	**62.9**	871	62.4							
416.gamess	4	**1306**	**60.0**	1305	60.0	1307	59.9							
433.milc	4	957	38.4	**957**	**38.4**	956	38.4							
434.zeusmp	4	783	46.5	778	46.8	**782**	**46.5**							
435.gromacs	4	534	53.5	533	53.6	**533**	**53.6**							
436.cactusADM	4	937	51.0	921	51.9	**932**	**51.3**							
437.leslie3d	4	959	39.2	**965**	**39.0**	974	38.6							
444.namd	4	**615**	**52.2**	615	52.2	614	52.2							
447.dealII	4	**613**	**74.7**	611	74.9	614	74.5							
450.soplex	4	960	34.7	**961**	**34.7**	965	34.6							
453.povray	4	308	69.1	**306**	**69.4**	306	69.6							
454.calculix	4	1040	31.7	**1041**	**31.7**	1042	31.7							
459.GemsFDTD	4	1231	34.5	1223	34.7	**1225**	**34.7**							
465.tonto	4	642	61.3	650	60.6	**646**	**60.9**							
470.lbm	4	1492	36.8	**1509**	**36.4**	1513	36.3							
481.wrf	4	782	57.1	**786**	**56.8**	790	56.6							
482.sphinx3	4	**1461**	**53.4**	1456	53.6	1462	53.3							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Taskset utility used to bind cores to processes

Base Compiler Invocation

C benchmarks:
    pathcc

C++ benchmarks:
    pathCC

Fortran benchmarks:
    pathf95

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Base Compiler Invocation (Continued)

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
         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 -OPT:malloc_alg=1
```

Benchmarks using both Fortran and C:
```
-Ofast -OPT:malloc_alg=1
```

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.xml`

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