SPEC® CFP2006 Result

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Dell Inc.

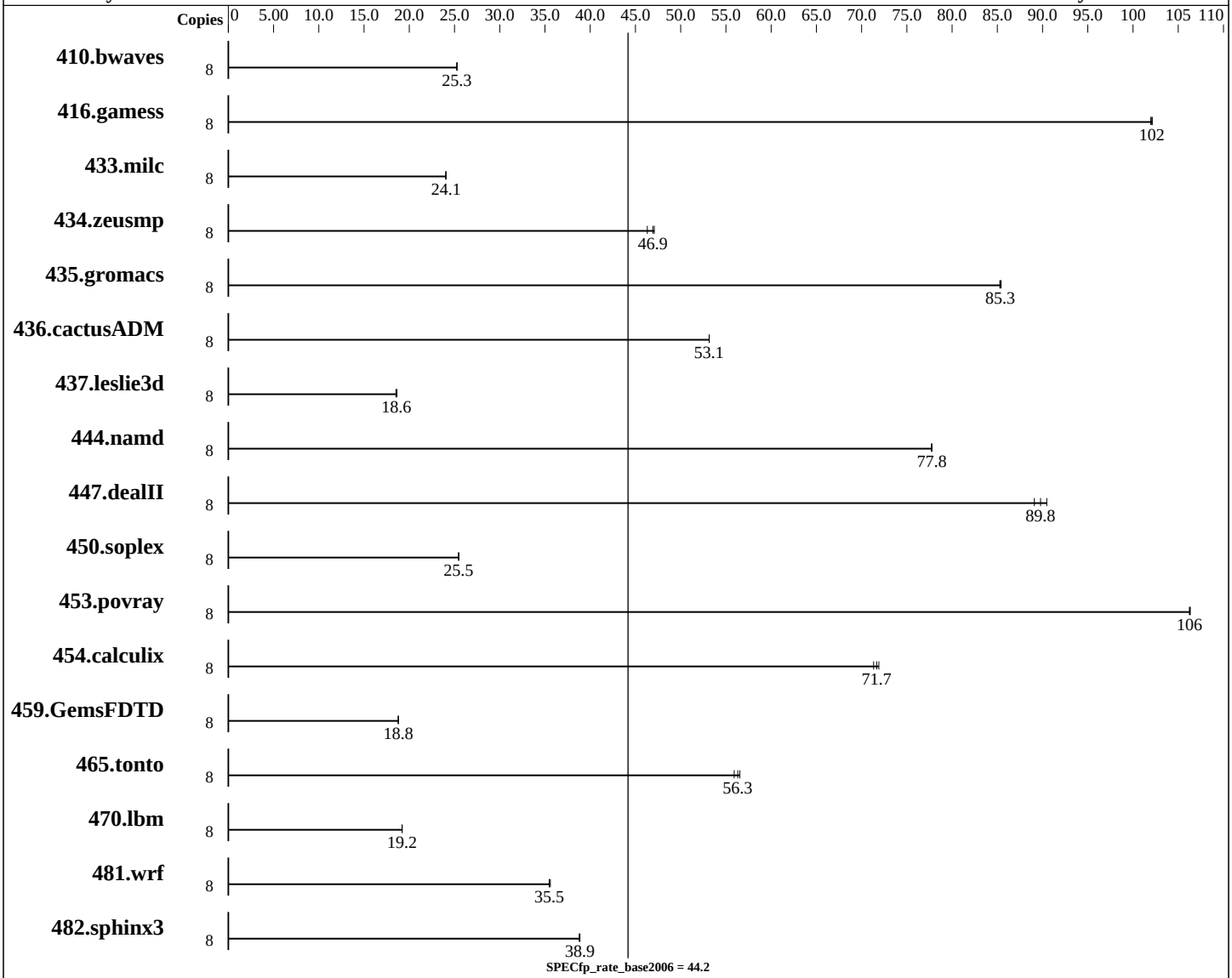
PowerEdge 2950 (Intel Xeon processor E5320, 1.86 GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 44.2

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

Test date: Mar-2007
Hardware Availability: Dec-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1066 MHz Bus Speed
CPU MHz:	1866
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System:	SuSE Linux Enterprise Server 10 EM64T kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_cc_c_9.1.045 Build no 20061101 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101
Auto Parallel:	No

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L3 Cache:	None	File System:	ext2
Other Cache:	None	System State:	Multi-user run level 3
Memory:	16 GB (8 x 2 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)	Base Pointers:	64-bit
Disk Subsystem:	1 x 73 GB SAS 15k RPM	Peak Pointers:	Not Applicable
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	8	4302	25.3	4303	25.3	**4302**	**25.3**							
416.gamess	8	1536	102	**1534**	**102**	1534	102							
433.milc	8	3055	24.0	**3053**	**24.1**	3053	24.1							
434.zeusmp	8	**1551**	**46.9**	1572	46.3	1546	47.1							
435.gromacs	8	669	85.4	670	85.3	**669**	**85.3**							
436.cactusADM	8	1798	53.2	**1799**	**53.1**	1799	53.1							
437.leslie3d	8	4059	18.5	**4047**	**18.6**	4034	18.6							
444.namd	8	826	77.7	825	77.8	**825**	**77.8**							
447.dealII	8	1012	90.5	**1019**	**89.8**	1027	89.1							
450.soplex	8	**2620**	**25.5**	2621	25.5	2620	25.5							
453.povray	8	**401**	**106**	400	106	401	106							
454.calculix	8	**921**	**71.7**	925	71.3	918	71.9							
459.GemsFDTD	8	**4517**	**18.8**	4519	18.8	4517	18.8							
465.tonto	8	1392	56.5	1408	55.9	**1398**	**56.3**							
470.lbm	8	5724	19.2	**5723**	**19.2**	5723	19.2							
481.wrf	8	2519	35.5	**2518**	**35.5**	2511	35.6							
482.sphinx3	8	**4012**	**38.9**	4020	38.8	4012	38.9							

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

Platform Notes

```
Hardware Prefetcher disabled in BIOS
Adjacent Cache Line Prefetch disabled in BIOS
"ulimit -s unlimited" set
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Continued on next page

Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

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 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
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 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/dell-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell-ic91-flags.xml

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

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