SPEC® CFP2006 Result

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Dell Inc.

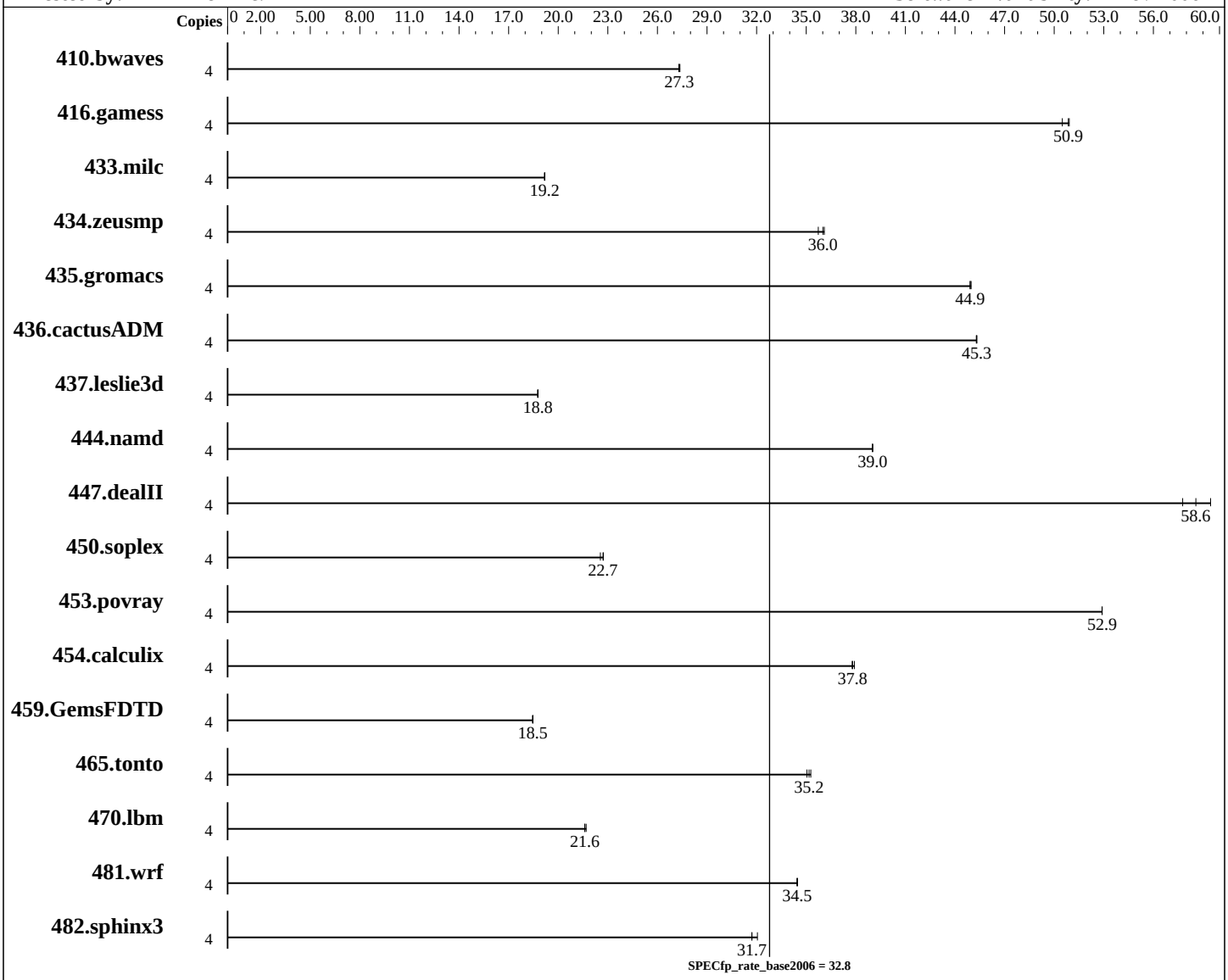
PowerEdge 2900 (Intel Xeon processor 5120, 1.86GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 32.8

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

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



Hardware

CPU Name:	Intel Xeon 5120
CPU Characteristics:	1066 MHz Bus Speed
CPU MHz:	1866
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip

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Software

Operating System:	Red Hat Enterprise Linux 4 Advanced Server Update 3 EM64T kernel 2.6.9-34-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:	ext3
Other Cache:	None	System State:	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	4	1987	27.4	**1990**	**27.3**	1992	27.3							
416.gamess	4	1551	50.5	1538	50.9	**1540**	**50.9**							
433.milc	4	1916	19.2	1914	19.2	**1914**	**19.2**							
434.zeusmp	4	**1011**	**36.0**	1019	35.7	1008	36.1							
435.gromacs	4	635	45.0	**636**	**44.9**	636	44.9							
436.cactusADM	4	**1055**	**45.3**	1055	45.3	1055	45.3							
437.leslie3d	4	**2003**	**18.8**	2004	18.8	2002	18.8							
444.namd	4	822	39.0	**822**	**39.0**	822	39.0							
447.dealII	4	792	57.8	770	59.5	**781**	**58.6**							
450.soplex	4	**1469**	**22.7**	1468	22.7	1479	22.5							
453.povray	4	402	52.9	**402**	**52.9**	402	52.9							
454.calculix	4	870	37.9	874	37.8	**873**	**37.8**							
459.GemsFDTD	4	2301	18.4	**2298**	**18.5**	2297	18.5							
465.tonto	4	1116	35.3	1123	35.0	**1119**	**35.2**							
470.lbm	4	2534	21.7	2544	21.6	**2543**	**21.6**							
481.wrf	4	1297	34.4	1296	34.5	**1297**	**34.5**							
482.sphinx3	4	2459	31.7	2433	32.0	**2458**	**31.7**							

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

Platform Notes

```
Snoop Filter enabled in BIOS
"ulimit -s unlimited" set
```

Base Compiler Invocation

C benchmarks:
```
icc
```

C++ benchmarks:
```
icpc
```

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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/hp-ic91-flags.html

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