SPEC® CFP2006 Result

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Dell Inc.

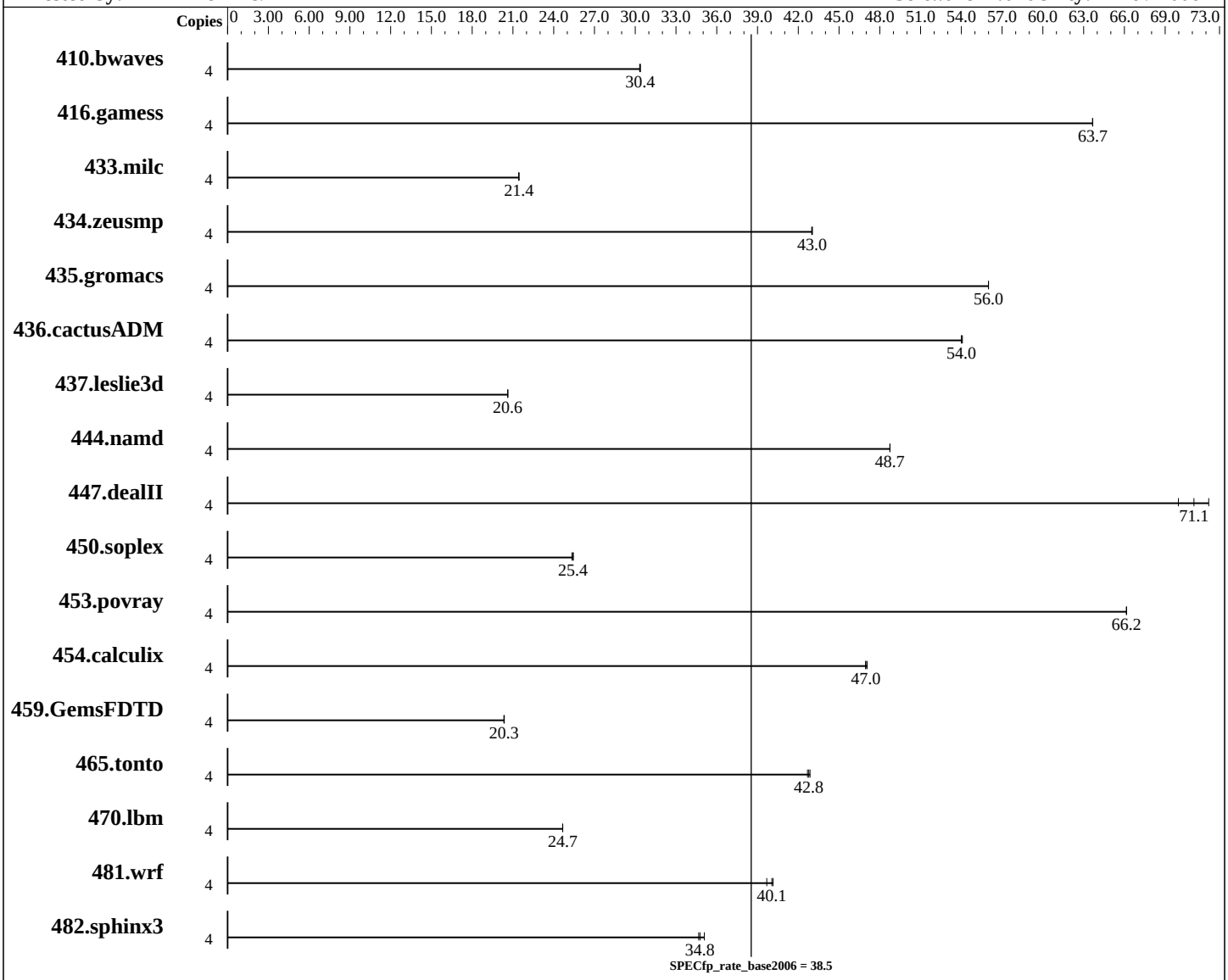
PowerEdge 2900 (Intel Xeon processor 5140, 2.33GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 38.5

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 5140
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	2333
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	1793	30.3	1790	30.4	**1790**	**30.4**							
416.gamess	4	1230	63.7	1230	63.7	**1230**	**63.7**							
433.milc	4	1713	21.4	1714	21.4	**1713**	**21.4**							
434.zeusmp	4	846	43.0	**846**	**43.0**	847	43.0							
435.gromacs	4	**510**	**56.0**	510	56.0	510	56.0							
436.cactusADM	4	**885**	**54.0**	885	54.0	884	54.1							
437.leslie3d	4	1823	20.6	**1823**	**20.6**	1825	20.6							
444.namd	4	**658**	**48.7**	658	48.7	658	48.7							
447.dealII	4	654	70.0	**643**	**71.1**	634	72.2							
450.soplex	4	1311	25.4	**1312**	**25.4**	1317	25.3							
453.povray	4	**322**	**66.2**	322	66.2	322	66.1							
454.calculix	4	**702**	**47.0**	701	47.1	703	46.9							
459.GemsFDTD	4	2087	20.3	**2086**	**20.3**	2084	20.4							
465.tonto	4	**920**	**42.8**	922	42.7	918	42.9							
470.lbm	4	**2228**	**24.7**	2229	24.7	2228	24.7							
481.wrf	4	1126	39.7	1113	40.1	**1116**	**40.1**							
482.sphinx3	4	2222	35.1	2249	34.7	**2242**	**34.8**							

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

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/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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