SPEC® CFP2006 Result

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Dell Inc.

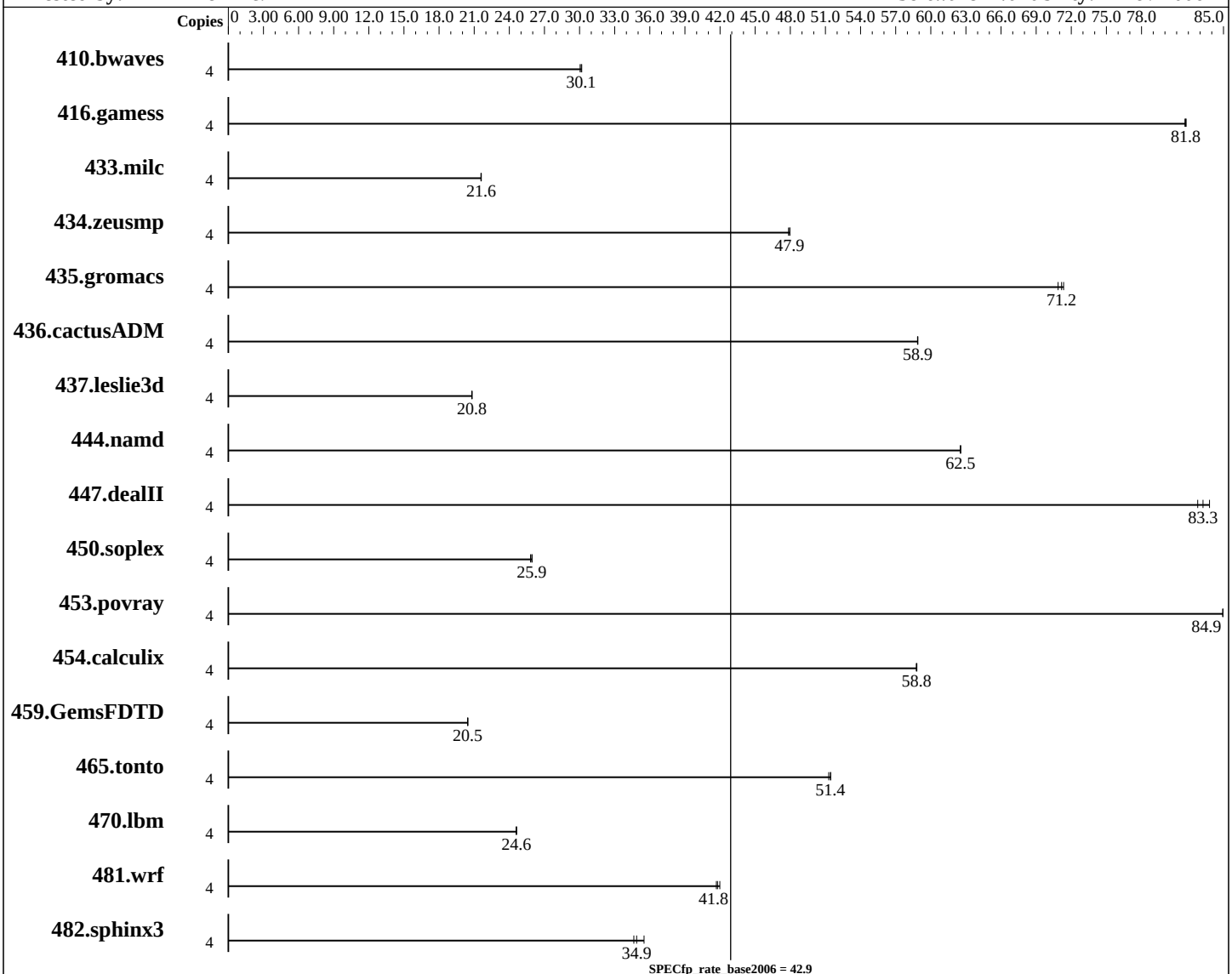
PowerEdge 1950 (Intel Xeon processor 5160, 3.00GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 42.9

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 5160
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3000
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:	1x73 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	1801	30.2	1809	30.0	**1804**	**30.1**							
416.gamess	4	959	81.7	**958**	**81.8**	957	81.8							
433.milc	4	1702	21.6	1700	21.6	**1700**	**21.6**							
434.zeusmp	4	761	47.8	759	48.0	**759**	**47.9**							
435.gromacs	4	400	71.3	403	70.9	**401**	**71.2**							
436.cactusADM	4	**812**	**58.9**	812	58.9	812	58.9							
437.leslie3d	4	1806	20.8	1808	20.8	**1807**	**20.8**							
444.namd	4	513	62.5	**513**	**62.5**	513	62.5							
447.dealII	4	**550**	**83.3**	553	82.8	546	83.8							
450.soplex	4	**1287**	**25.9**	1286	25.9	1293	25.8							
453.povray	4	251	84.9	250	85.0	**251**	**84.9**							
454.calculix	4	562	58.8	**561**	**58.8**	561	58.8							
459.GemsFDTD	4	2077	20.4	2075	20.5	**2075**	**20.5**							
465.tonto	4	768	51.3	765	51.5	**765**	**51.4**							
470.lbm	4	2232	24.6	**2233**	**24.6**	2236	24.6							
481.wrf	4	1064	42.0	1072	41.7	**1069**	**41.8**							
482.sphinx3	4	2196	35.5	**2235**	**34.9**	2251	34.6							

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/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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