SPEC® CFP2006 Result

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Dell Inc.

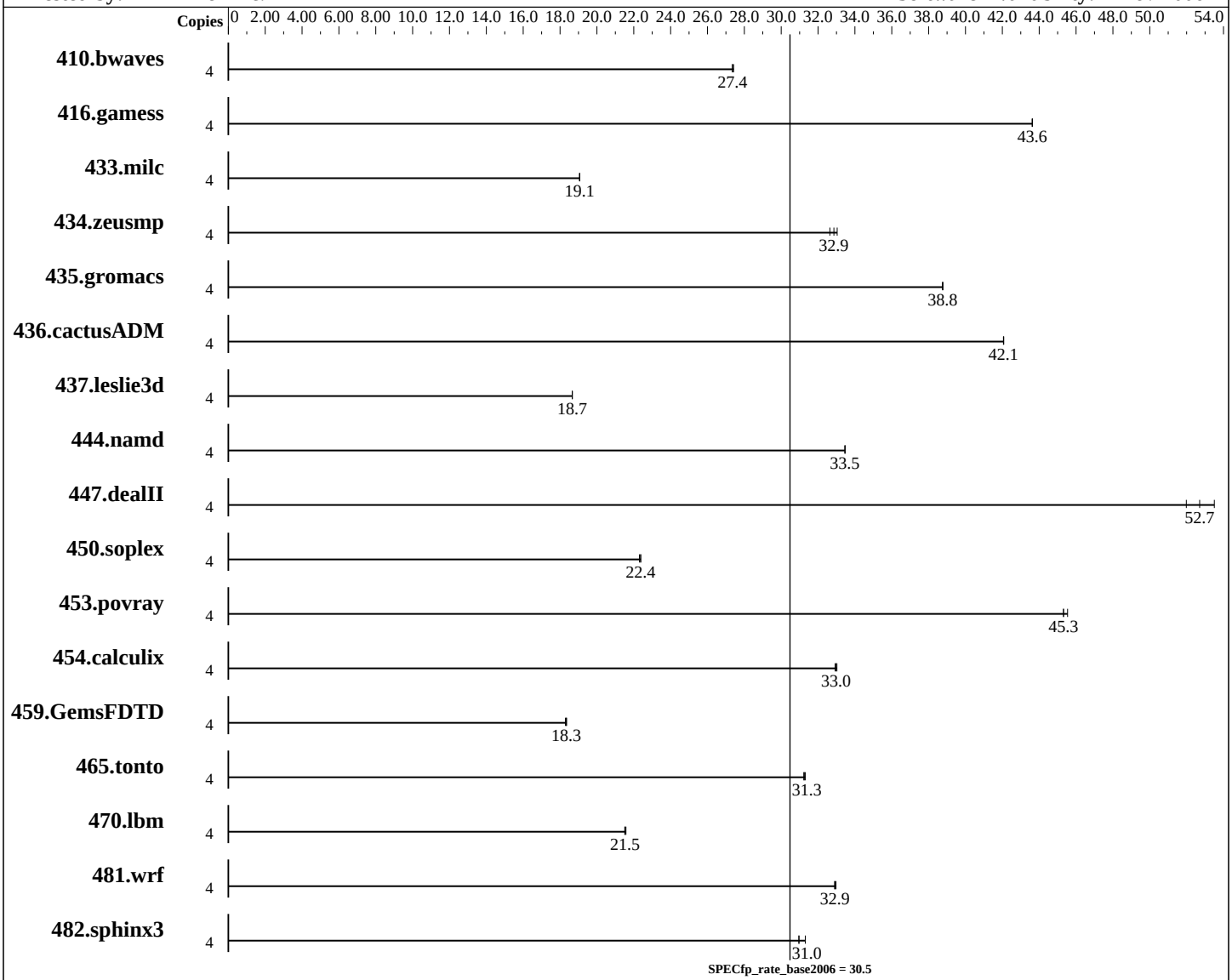
PowerEdge 1950 (Intel Xeon processor 5110, 1.60GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 30.5

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 5110
CPU Characteristics:	1066 MHz Bus Speed
CPU MHz:	1600
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	1983	27.4	1988	27.3	**1987**	**27.4**							
416.gamess	4	1795	43.6	1796	43.6	**1795**	**43.6**							
433.milc	4	1926	19.1	**1926**	**19.1**	1927	19.1							
434.zeusmp	4	1115	32.6	1102	33.0	**1108**	**32.9**							
435.gromacs	4	**737**	**38.8**	737	38.8	737	38.8							
436.cactusADM	4	1136	42.1	**1136**	**42.1**	1136	42.1							
437.leslie3d	4	2015	18.7	2015	18.7	**2015**	**18.7**							
444.namd	4	959	33.5	**959**	**33.5**	959	33.5							
447.dealII	4	880	52.0	855	53.5	**868**	**52.7**							
450.soplex	4	1491	22.4	**1491**	**22.4**	1496	22.3							
453.povray	4	467	45.5	**470**	**45.3**	470	45.3							
454.calculix	4	999	33.0	**1001**	**33.0**	1002	32.9							
459.GemsFDTD	4	2321	18.3	**2314**	**18.3**	2312	18.4							
465.tonto	4	1261	31.2	**1259**	**31.3**	1257	31.3							
470.lbm	4	2547	21.6	**2552**	**21.5**	2555	21.5							
481.wrf	4	1355	33.0	1358	32.9	**1357**	**32.9**							
482.sphinx3	4	2490	31.3	2519	31.0	**2517**	**31.0**							

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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