SPEC® CFP2006 Result

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Dell Inc.

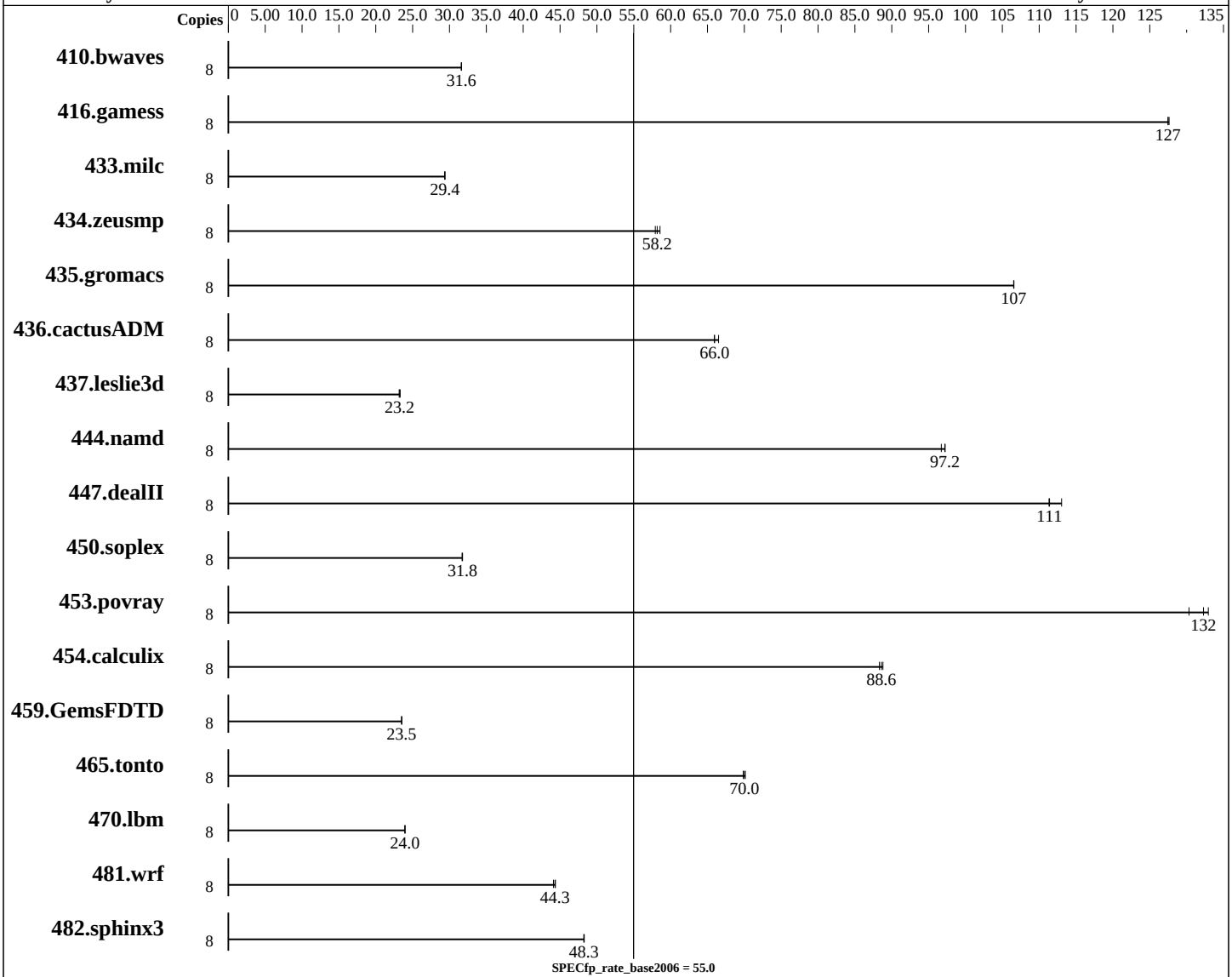
PowerEdge 2900 (Intel Xeon processor E5345, 2.33 GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 55.0

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 E5345
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	2333
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	3440	31.6	3437	31.6	**3438**	**31.6**							
416.gamess	8	**1229**	**127**	1227	128	1229	127							
433.milc	8	2499	29.4	2504	29.3	**2499**	**29.4**							
434.zeusmp	8	1243	58.6	**1251**	**58.2**	1257	57.9							
435.gromacs	8	**536**	**107**	536	107	536	107							
436.cactusADM	8	1438	66.5	1450	65.9	**1449**	**66.0**							
437.leslie3d	8	3227	23.3	**3235**	**23.2**	3245	23.2							
444.namd	8	663	96.7	**660**	**97.2**	660	97.2							
447.dealII	8	**822**	**111**	822	111	810	113							
450.soplex	8	**2101**	**31.8**	2105	31.7	2100	31.8							
453.povray	8	327	130	320	133	**322**	**132**							
454.calculix	8	743	88.8	**745**	**88.6**	747	88.3							
459.GemsFDTD	8	3608	23.5	3610	23.5	**3609**	**23.5**							
465.tonto	8	**1125**	**70.0**	1127	69.9	1122	70.1							
470.lbm	8	4588	24.0	**4587**	**24.0**	4587	24.0							
481.wrf	8	2014	44.4	2026	44.1	**2017**	**44.3**							
482.sphinx3	8	3229	48.3	3233	48.2	**3231**	**48.3**							

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`

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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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