



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

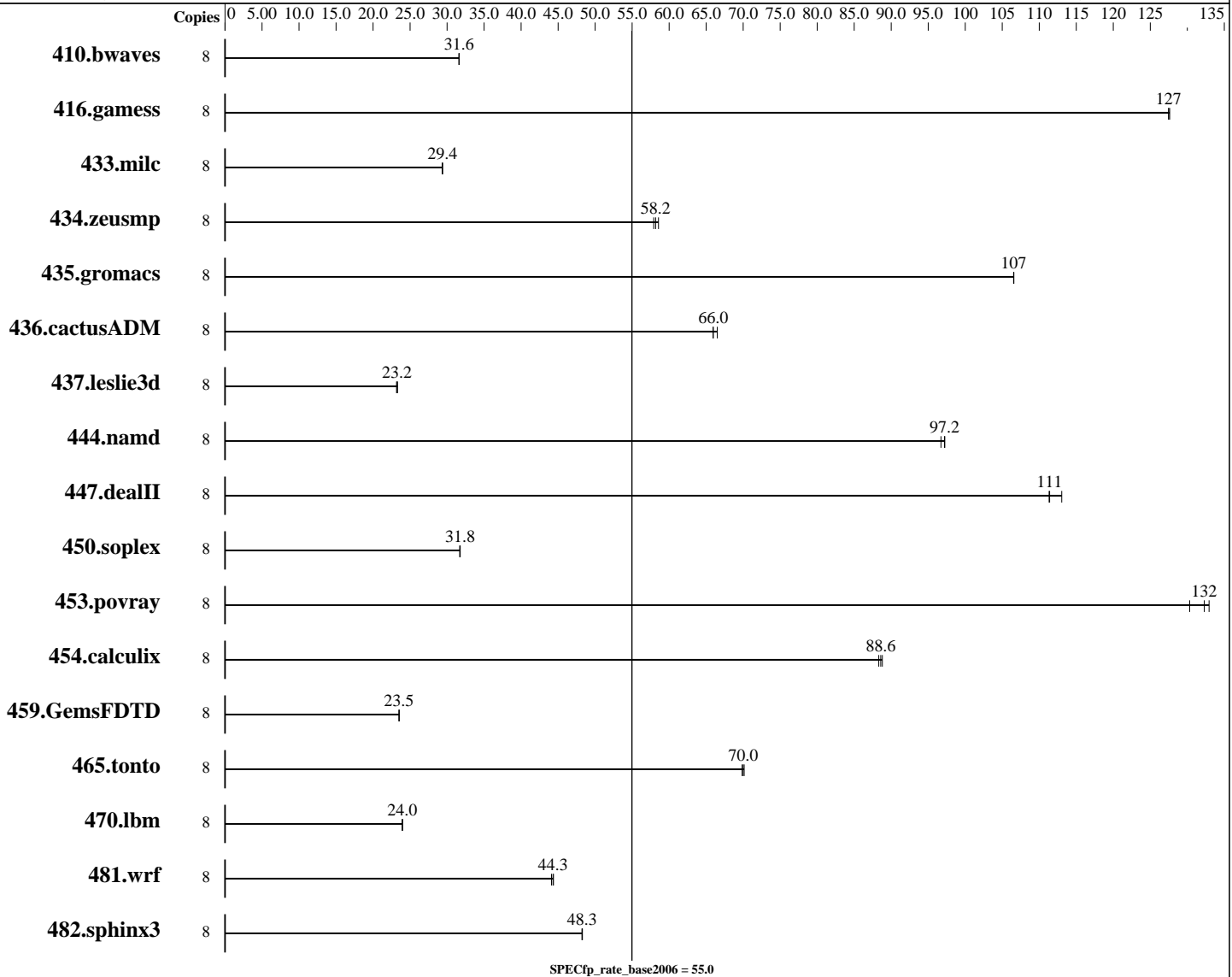
Test sponsor: Dell Inc.

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

Continued on next page



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L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8 x 2 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
 Disk Subsystem: 1 x 73 GB SAS 15k RPM
 Other Hardware: None

File System: ext2
 System State: Multi-user run level 3
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 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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