SPEC® CFP2006 Result
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Dell Inc.

PowerEdge 2900 (Intel Xeon processor E5310, 1.60 GHz)

$SPECfp^{®}_rate2006 = $ Not Run
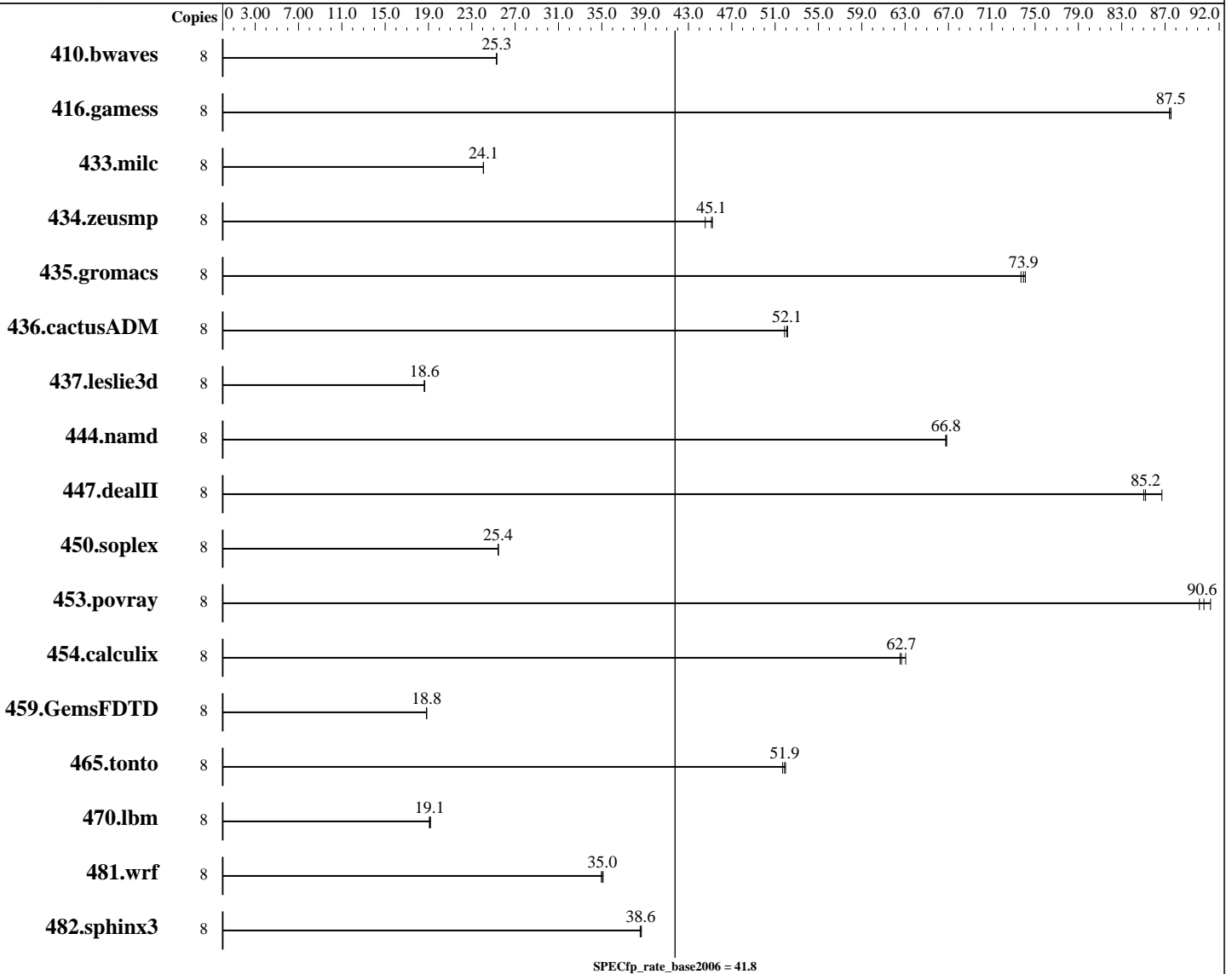
$SPECfp_rate_base2006 = $ 41.8

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Mar-2007
Hardware Availability: Dec-2006
Software Availability: Nov-2006

Benchmark	Copies	Result
410.bwaves	8	25.3
416.gamess	8	87.5
433.milc	8	24.1
434.zeusmp	8	45.1
435.gromacs	8	73.9
436.cactusADM	8	52.1
437.leslie3d	8	18.6
444.namd	8	66.8
447.dealII	8	85.2
450.soplex	8	25.4
453.povray	8	90.6
454.calculix	8	62.7
459.GemsFDTD	8	18.8
465.tonto	8	51.9
470.lbm	8	19.1
481.wrf	8	35.0
482.sphinx3	8	38.6

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Hardware

CPU Name: Intel Xeon E5310
CPU Characteristics: 1066 MHz Bus Speed
CPU MHz: 1600
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

Continued on next page

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	**4299**	**25.3**	4300	25.3	4298	25.3							
416.gamess	8	**1789**	**87.5**	1789	87.5	1792	87.4							
433.milc	8	**3050**	**24.1**	3053	24.1	3049	24.1							
434.zeusmp	8	1634	44.5	1610	45.2	**1614**	**45.1**							
435.gromacs	8	775	73.7	771	74.1	**773**	**73.9**							
436.cactusADM	8	1833	52.2	**1835**	**52.1**	1843	51.9							
437.leslie3d	8	**4037**	**18.6**	4042	18.6	4031	18.7							
444.namd	8	961	66.8	**961**	**66.8**	960	66.8							
447.dealII	8	1076	85.0	**1074**	**85.2**	1055	86.7							
450.soplex	8	2624	25.4	2622	25.4	**2623**	**25.4**							
453.povray	8	467	91.2	472	90.2	**470**	**90.6**							
454.calculix	8	1047	63.1	**1053**	**62.7**	1055	62.5							
459.GemsFDTD	8	**4509**	**18.8**	4508	18.8	4511	18.8							
465.tonto	8	1523	51.7	**1518**	**51.9**	1515	52.0							
470.lbm	8	**5750**	**19.1**	5760	19.1	5729	19.2							
481.wrf	8	2545	35.1	2556	35.0	**2550**	**35.0**							
482.sphinx3	8	4045	38.5	**4041**	**38.6**	4034	38.7							

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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Tested by:	Dell Inc.	**Software Availability:**	Nov-2006

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 other inquiries, please contact webmaster@spec.org.

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