SPEC® CFP2006 Result
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Dell Inc.

PowerEdge 1950 (Intel Xeon processor 5150, 2.66GHz)

$SPECfp®\_rate2006 =$ Not Run

$SPECfp\_rate\_base2006 =$ 40.7
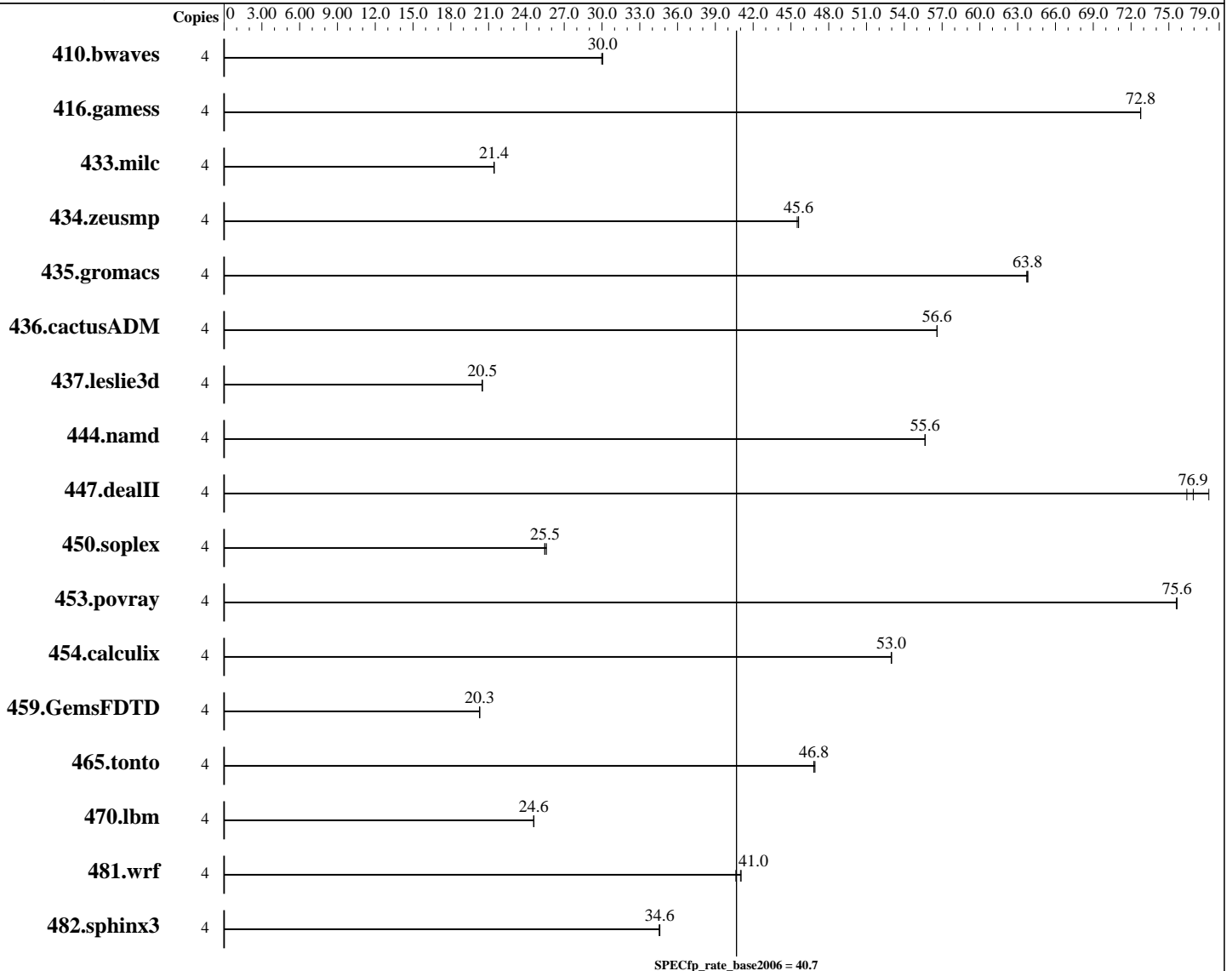
CPU2006 license: 55	**Test date:** Mar-2007
Test sponsor: Dell Inc.	**Hardware Availability:** Jul-2006
Tested by: Dell Inc.	**Software Availability:** Nov-2006

Benchmark	Copies	Result
410.bwaves	4	30.0
416.gamess	4	72.8
433.milc	4	21.4
434.zeusmp	4	45.6
435.gromacs	4	63.8
436.cactusADM	4	56.6
437.leslie3d	4	20.5
444.namd	4	55.6
447.dealII	4	76.9
450.soplex	4	25.5
453.povray	4	75.6
454.calculix	4	53.0
459.GemsFDTD	4	20.3
465.tonto	4	46.8
470.lbm	4	24.6
481.wrf	4	41.0
482.sphinx3	4	34.6

SPECfp_rate_base2006 = 40.7

Hardware

CPU Name:	Intel Xeon 5150
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	2666
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

Continued on next page

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	**1809**	**30.0**	1809	30.1	1813	30.0							
416.gamess	4	1077	72.8	1076	72.8	**1076**	**72.8**							
433.milc	4	1712	21.4	1714	21.4	**1714**	**21.4**							
434.zeusmp	4	798	45.6	**798**	**45.6**	800	45.5							
435.gromacs	4	448	63.8	**448**	**63.8**	448	63.7							
436.cactusADM	4	844	56.6	845	56.6	**844**	**56.6**							
437.leslie3d	4	**1834**	**20.5**	1835	20.5	1834	20.5							
444.namd	4	576	55.7	**576**	**55.6**	576	55.6							
447.dealII	4	599	76.4	585	78.2	**595**	**76.9**							
450.soplex	4	1304	25.6	**1309**	**25.5**	1311	25.4							
453.povray	4	281	75.7	281	75.6	**281**	**75.6**							
454.calculix	4	623	53.0	**623**	**53.0**	623	53.0							
459.GemsFDTD	4	2090	20.3	**2093**	**20.3**	2094	20.3							
465.tonto	4	839	46.9	**841**	**46.8**	841	46.8							
470.lbm	4	2234	24.6	2236	24.6	**2236**	**24.6**							
481.wrf	4	**1090**	**41.0**	1100	40.6	1088	41.0							
482.sphinx3	4	**2255**	**34.6**	2257	34.5	2253	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/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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