SPEC® CFP2006 Result

Dell Inc.

PowerEdge 2950 (Intel Xeon processor 5150, 2.66GHz)

$SPECfp^®\_rate2006 =$ Not Run

$SPECfp\_rate\_base2006 =$ 40.7

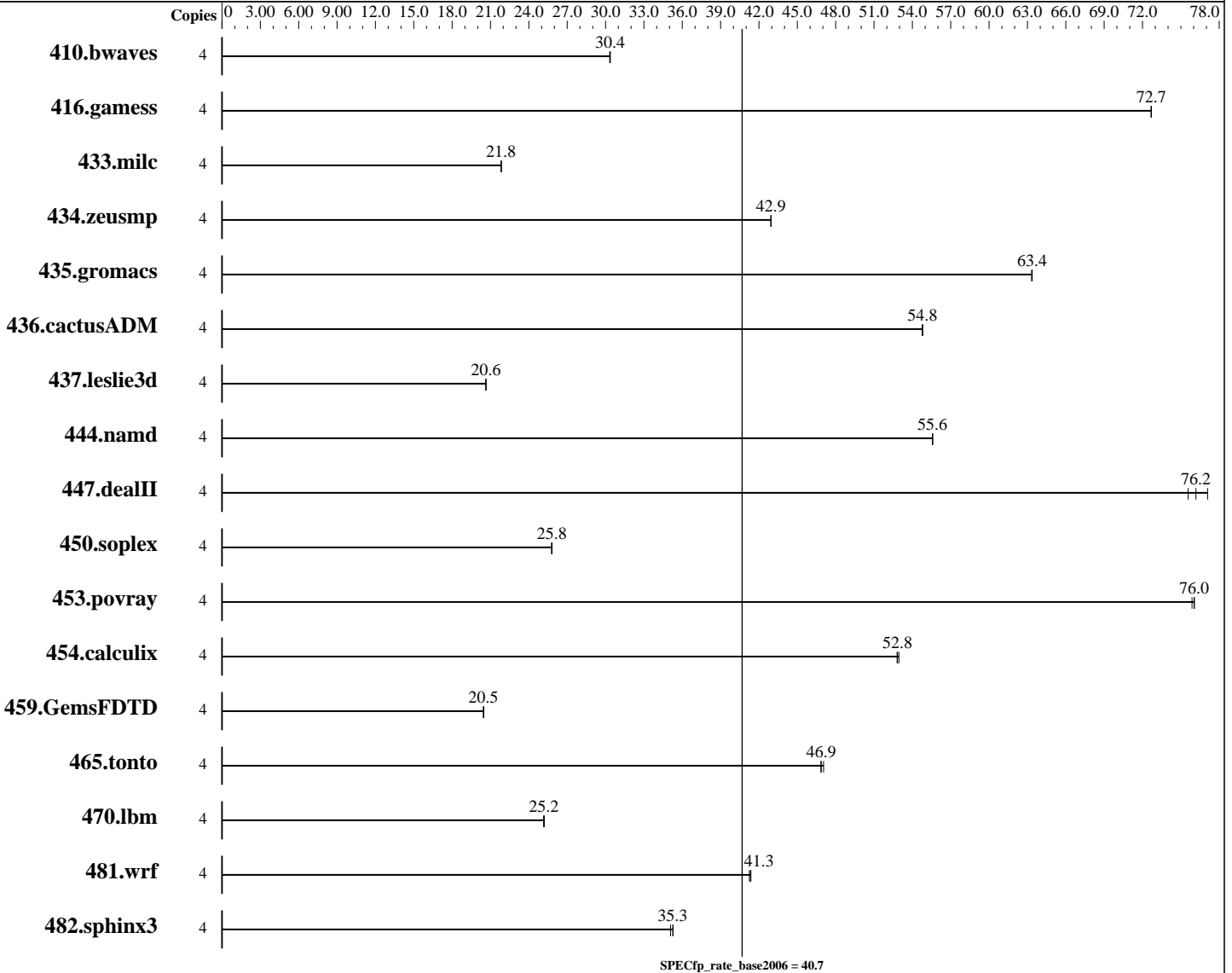|	
CPU2006 license: 55	**Test date:** Mar-2007
Test sponsor: Dell Inc.	**Hardware Availability:** Jul-2006
Tested by: Dell Inc.	**Software Availability:** Nov-2006

Copies scale: 0 3.00 6.00 9.00 12.0 15.0 18.0 21.0 24.0 27.0 30.0 33.0 36.0 39.0 42.0 45.0 48.0 51.0 54.0 57.0 60.0 63.0 66.0 69.0 72.0 78.0

Benchmark	Copies	Result
410.bwaves	4	30.4
416.gamess	4	72.7
433.milc	4	21.8
434.zeusmp	4	42.9
435.gromacs	4	63.4
436.cactusADM	4	54.8
437.leslie3d	4	20.6
444.namd	4	55.6
447.dealII	4	76.2
450.soplex	4	25.8
453.povray	4	76.0
454.calculix	4	52.8
459.GemsFDTD	4	20.5
465.tonto	4	46.9
470.lbm	4	25.2
481.wrf	4	41.3
482.sphinx3	4	35.3

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

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	Copies	Base Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1793	30.3	1790	30.4	**1791**	**30.4**							
416.gamess	4	1077	72.7	1078	72.7	**1078**	**72.7**							
433.milc	4	1682	21.8	1680	21.9	**1682**	**21.8**							
434.zeusmp	4	**848**	**42.9**	848	42.9	847	43.0							
435.gromacs	4	451	63.3	**451**	**63.4**	451	63.4							
436.cactusADM	4	**872**	**54.8**	872	54.8	873	54.8							
437.leslie3d	4	**1821**	**20.6**	1821	20.6	1822	20.6							
444.namd	4	**577**	**55.6**	577	55.6	577	55.6							
447.dealII	4	**601**	**76.2**	606	75.6	594	77.1							
450.soplex	4	**1293**	**25.8**	1294	25.8	1292	25.8							
453.povray	4	280	75.9	**280**	**76.0**	280	76.1							
454.calculix	4	623	52.9	**625**	**52.8**	625	52.8							
459.GemsFDTD	4	2076	20.4	**2074**	**20.5**	2072	20.5							
465.tonto	4	836	47.1	840	46.8	**840**	**46.9**							
470.lbm	4	2181	25.2	**2182**	**25.2**	2184	25.2							
481.wrf	4	1080	41.4	**1081**	**41.3**	1083	41.3							
482.sphinx3	4	**2211**	**35.3**	2222	35.1	2210	35.3							

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/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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