# SPEC® CFP2006 Result

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## Dell Inc.

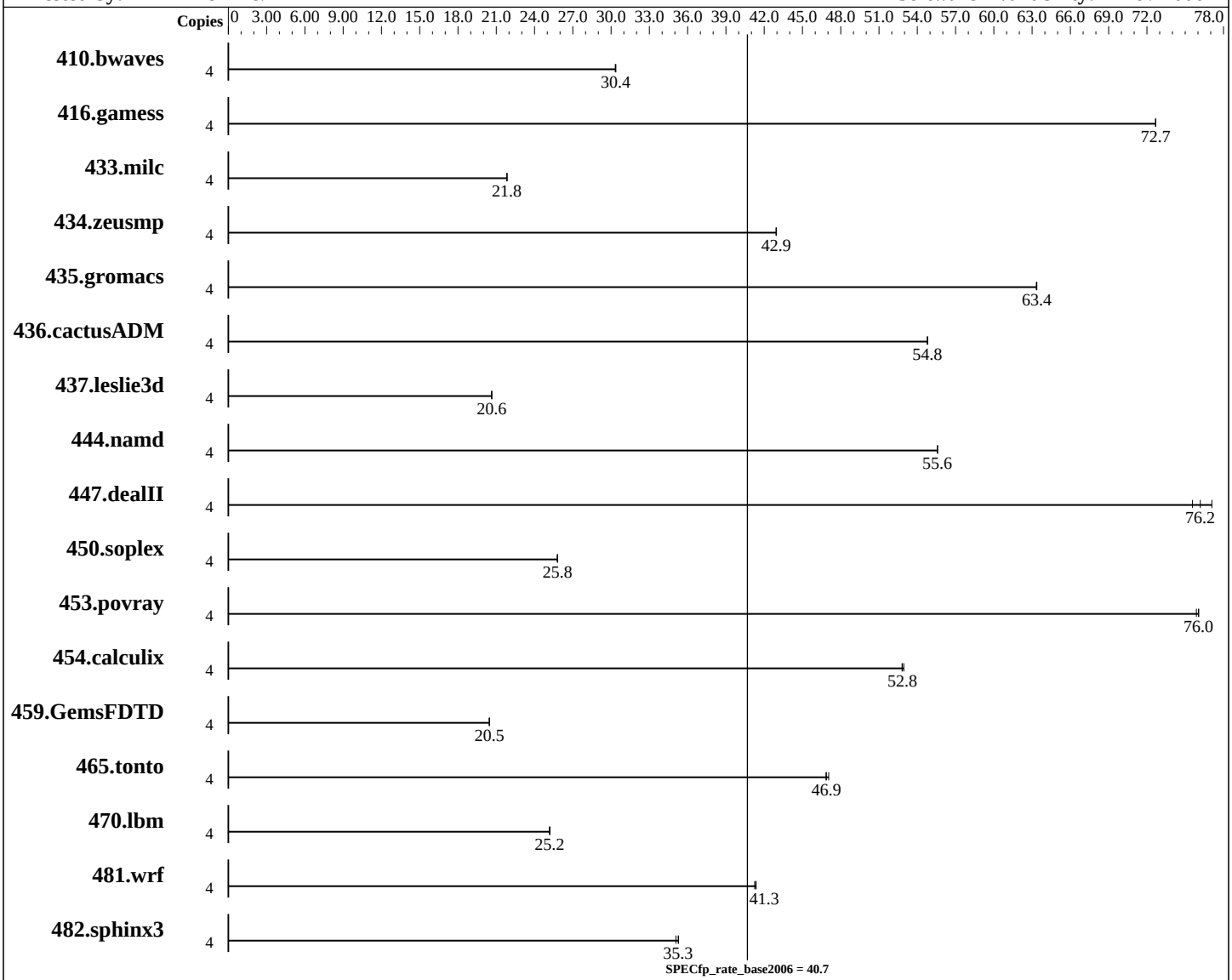
PowerEdge 2950 (Intel Xeon processor 5150, 2.66GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 40.7

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

**Test date:** Mar-2007
**Hardware Availability:** Jul-2006
**Software Availability:** Nov-2006




### 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 |

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### Software

| | |
|---|---|
| Operating System: | Red Hat Enterprise Linux 4 Advanced Server Update 3 EM64T<br>kernel 2.6.9-34-smp |
| Compiler: | Intel C++ Compiler for Intel EM64T-based applications, Version 9.1<br>Package ID l_cc_c_9.1.045 Build no 20061101<br>Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1<br>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 | 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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