# SPEC® CFP2006 Result

## Dell Inc.

PowerEdge 1950 (Intel Xeon processor X5355, 2.66 GHz)

### SPECfp_rate2006 = Not Run

### SPECfp_rate_base2006 = 58.2

| SPECfp Benchmark | Copies | 5.00 | 15.0 | 25.0 | 35.0 | 45.0 | 55.0 | 65.0 | 75.0 | 85.0 | 95.0 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 |
|------------------|--------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 410.bwaves       | 8      |      |      |      |      | 31.9 | | | | | | | | | | | | | | | | | | | | |
| 416.gamess       | 8      | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 433.milc         | 8      |      |      |      |      | 29.6 | | | | | | | | | | | | | | | | | | | | |
| 434.zeusmp       | 8      | | | | | | 60.7 | | | | | | | | | | | | | | | | | | |
| 435.gromacs      | 8      | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 436.cactusADM    | 8      | | | | | | 68.0 | | | | | | | | | | | | | | | | | | |
| 437.leslie3d     | 8      | | 23.4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 444.namd         | 8      | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 447.dealII       | 8      | 111  | 123  | 111  | | | | | | | | | | | | | | | | | | | | | | |
| 450.soplex       | 8      | | 32.2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 453.povray       | 8      | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 454.calculix     | 8      | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 459.GemsFDTD     | 8      | | 23.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 465.tonto        | 8      | 75.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 470.lbm          | 8      | | 24.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 481.wrf          | 8      | | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 482.sphinx3      | 8      | | 49.0 | | | | | | | | | | | | | | | | | | | | | | | | |

### Hardware

- **CPU Name:** Intel Xeon X5355
- **CPU Characteristics:** 1333 MHz Bus Speed
- **CPU MHz:** 2666
- **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 core, 4 MB shared / 2 cores

### 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 1_cc_c_9.1.045 Build no 20061101
- **Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1**
  - Package ID 1_fc_c_9.1.040 Build no 20061101
- **Auto Parallel:** No

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

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

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 | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
410.bwaves | 8 | 3412 | 31.9 | 3412 | 31.9 | 3412 | 31.9 | | | | | | | |
416.gamess | 8 | 1074 | 146 | 1074 | 146 | 1073 | 146 | | | | | | | |
433.milc | 8 | 2479 | 29.6 | 2474 | 29.7 | 2480 | 29.6 | | | | | | | |
434.zeusmp | 8 | 1202 | 60.6 | 1199 | 60.7 | 1198 | 60.8 | | | | | | | |
435.gromacs | 8 | 474 | 120 | 476 | 120 | 477 | 120 | | | | | | | |
436.cactusADM | 8 | 1402 | 68.2 | 1406 | 68.0 | 1413 | 67.7 | | | | | | | |
437.leslie3d | 8 | 3188 | 23.6 | 3210 | 23.4 | 3208 | 23.4 | | | | | | | |
444.namd | 8 | 578 | 111 | 579 | 111 | 579 | 111 | | | | | | | |
447.dealII | 8 | 742 | 123 | 740 | 124 | 753 | 122 | | | | | | | |
450.soplex | 8 | 2071 | 32.2 | 2072 | 32.2 | 2070 | 32.2 | | | | | | | |
453.povray | 8 | 283 | 150 | 282 | 151 | 281 | 151 | | | | | | | |
454.calculix | 8 | 649 | 102 | 666 | 99.1 | 667 | 99.0 | | | | | | | |
459.GemsFDTD | 8 | 3579 | 23.7 | 3577 | 23.7 | 3577 | 23.7 | | | | | | | |
465.tonto | 8 | 1047 | 75.2 | 1046 | 75.3 | 1044 | 75.4 | | | | | | | |
470.lbm | 8 | 4532 | 24.3 | 4540 | 24.2 | 4530 | 24.3 | | | | | | | |
481.wrf | 8 | 1988 | 45.0 | 1988 | 45.0 | 1983 | 45.1 | | | | | | | |
482.sphinx3 | 8 | 3179 | 49.0 | 3192 | 48.9 | 3184 | 49.0 | | | | | | | |

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
```
Dell Inc.
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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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.