# SPEC® CINT2006 Result
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## Dell Inc.

Dell Precision 690 (Intel Xeon X5365, 3.00 GHz)

$SPECint®\_rate2006 =$ 57.4

$SPECint\_rate\_base2006 =$ 53.9

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

**Copies** 0 5.00 10.0 15.0 20.0 25.0 30.0 35.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100 105 110 115 120 130

| Benchmark | Copies | Value |
|---|---|---|
| 400.perlbench | 4 | 90.6 |
| | 4 | 80.2 |
| 401.bzip2 | 4 | 49.1 |
| | 4 | 47.7 |
| 403.gcc | 4 | 29.5 |
| | 4 | 26.0 |
| 429.mcf | 4 | 46.2 |
| 445.gobmk | 4 | 82.9 |
| | 4 | 75.3 |
| 456.hmmer | 4 | 62.0 |
| | 4 | 61.2 |
| 458.sjeng | 4 | 77.8 |
| | 4 | 68.4 |
| 462.libquantum | 4 | 37.6 |
| | 4 | 35.1 |
| 464.h264ref | 4 | 127 |
| | 4 | 120 |
| 471.omnetpp | 4 | 39.8 |
| | 4 | 37.1 |
| 473.astar | 4 | 45.9 |
| | 4 | 43.5 |
| 483.xalancbmk | 4 | 60.7 |
| | 4 | 61.7 |

SPECint_rate_base2006 = 53.9

SPECint_rate2006 = 57.4

## Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon X5365 |
| CPU Characteristics: | 1333 MHz Bus Speed |
| CPU MHz: | 3000 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 1 chip, 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 |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 16 GB (8x2 GB 667 MHz ECC CL5 FB-DIMM) |
| Disk Subsystem: | 1 x 73GB SAS 10K RPM |
| Other Hardware: | None |

## Software

| | |
|---|---|
| Operating System: | Windows XP Professional x64 Edition SP2 |
| Compiler: | Intel C++ Compiler for IA-32, Version 10.0 Build 20070426 Package ID: W_CC_P_10.0.025 Microsoft Visual Studio 2005 SP1 |
| Auto Parallel: | No |
| File System: | NTFS |
| System State: | Default |
| Base Pointers: | 32-bit |
| Peak Pointers: | 32-bit |
| Other Software: | MicroQuill SmartHeap Library 8.0 |

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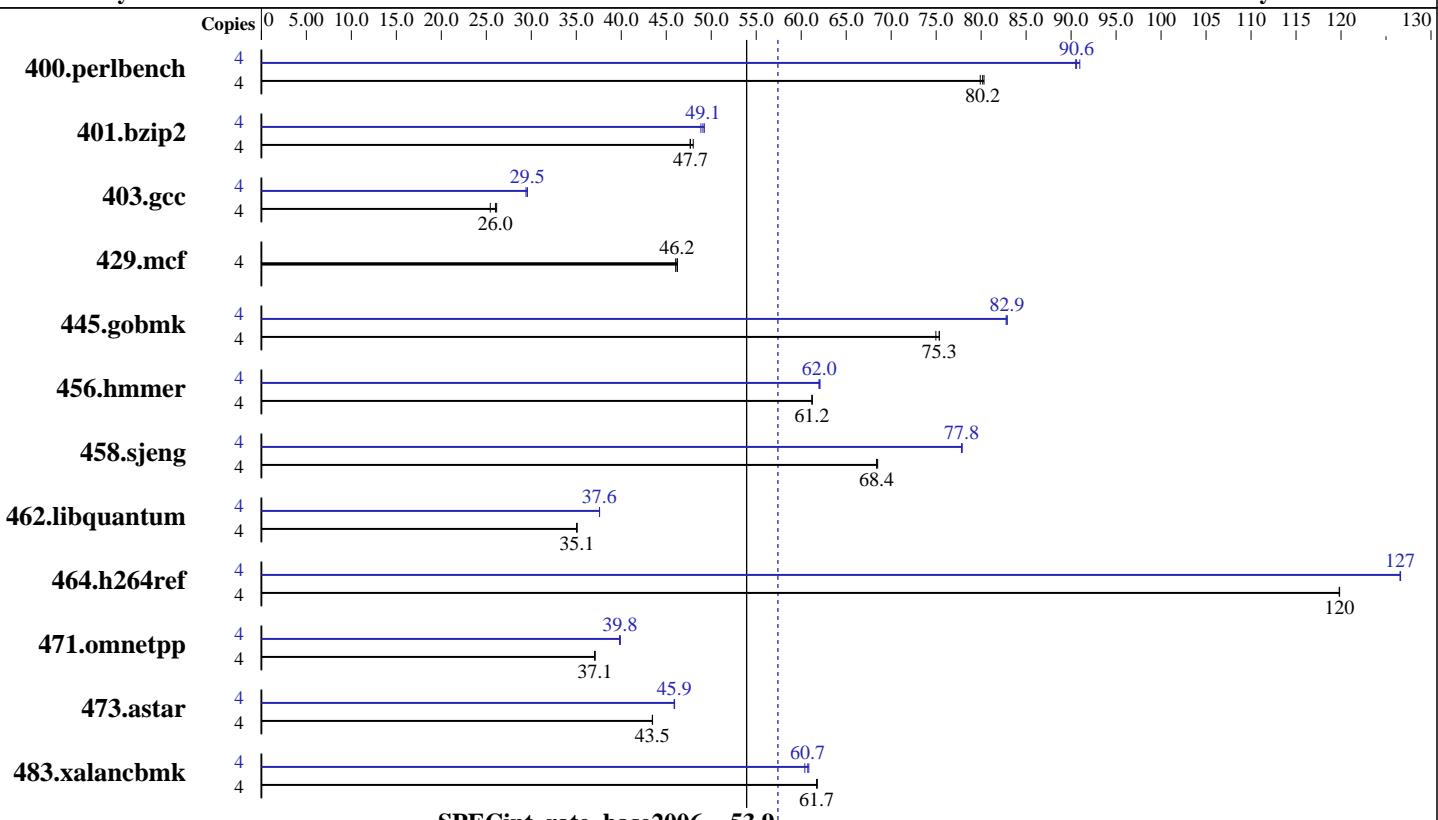
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## Results Table

| Benchmark | Copies | Base Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Peak Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400.perlbench | 4 | **488** | **80.2** | 487 | 80.3 | 489 | 79.9 | 4 | 430 | 91.0 | **431** | **90.6** | 432 | 90.5 |
| 401.bzip2 | 4 | 804 | 48.0 | **809** | **47.7** | 810 | 47.7 | 4 | **787** | **49.1** | 784 | 49.2 | 790 | 48.9 |
| 403.gcc | 4 | 1231 | 26.2 | 1266 | 25.4 | **1238** | **26.0** | 4 | 1089 | 29.6 | **1090** | **29.5** | 1095 | 29.4 |
| 429.mcf | 4 | **790** | **46.2** | 789 | 46.2 | 792 | 46.0 | 4 | **790** | **46.2** | 789 | 46.2 | 792 | 46.0 |
| 445.gobmk | 4 | **557** | **75.3** | 557 | 75.4 | 560 | 75.0 | 4 | 507 | 82.8 | **506** | **82.9** | 506 | 82.9 |
| 456.hmmer | 4 | 610 | 61.2 | 610 | 61.2 | **610** | **61.2** | 4 | 601 | 62.1 | 602 | 62.0 | **602** | **62.0** |
| 458.sjeng | 4 | 708 | 68.4 | **708** | **68.4** | 707 | 68.5 | 4 | **622** | **77.8** | 622 | 77.8 | 621 | 77.9 |
| 462.libquantum | 4 | 2363 | 35.1 | 2364 | 35.1 | **2363** | **35.1** | 4 | **2205** | **37.6** | 2205 | 37.6 | 2205 | 37.6 |
| 464.h264ref | 4 | **739** | **120** | 739 | 120 | 739 | 120 | 4 | 699 | 127 | **699** | **127** | 699 | 127 |
| 471.omnetpp | 4 | **674** | **37.1** | 675 | 37.0 | 674 | 37.1 | 4 | 628 | 39.8 | 627 | 39.9 | **627** | **39.8** |
| 473.astar | 4 | **646** | **43.5** | 646 | 43.5 | 646 | 43.5 | 4 | **612** | **45.9** | 612 | 45.9 | 611 | 45.9 |
| 483.xalancbmk | 4 | 447 | 61.8 | **447** | **61.7** | 447 | 61.7 | 4 | **454** | **60.7** | 457 | 60.4 | 454 | 60.8 |

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## General Notes

    Binaries were built on Windows Vista Ultimate (64-bit)

    BIOS Settings
      Snoop Filter                 : OFF
      Adjacent Cache Line Prefetch : OFF
      Hardware Prefetcher          : OFF

    Snoop Filter
      Preserves cache coherency while minimizing snoops
      to remote nodes.

    Adjacent Cache Line Prefetch
      Prefetch data in order to shorten execution cycles
      and maximize data processing efficiency.

    Optimization for high-frequency FSB applicatons: ON

## Base Compiler Invocation

C benchmarks:
      icl -Qstd=c99

C++ benchmarks:
      icl

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## Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

## Base Optimization Flags

C benchmarks:
`-fast /F512000000 shlw32m.lib`          `-link /FORCE:MULTIPLE`

C++ benchmarks:
`-fast -Qcxx_features /F512000000 shlw32m.lib`
`-link /FORCE:MULTIPLE`

## Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

## Peak Compiler Invocation

C benchmarks:
`icl -Qstd=c99`

C++ benchmarks:
`icl`

## Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

## Peak Optimization Flags

C benchmarks:

400.perlbench: `ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast`
`-Qansi-alias -Qprefetch /F512000000 shlw32m.lib`
`-link /FORCE:MULTIPLE`

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# Peak Optimization Flags (Continued)

```
  401.bzip2: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
             /F512000000 shlw32m.lib           -link /FORCE:MULTIPLE

    403.gcc: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
             /F512000000               -link /FORCE:MULTIPLE

    429.mcf: basepeak = yes

  445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
             -Qprec-div- -Qansi-alias /F512000000
                         -link /FORCE:MULTIPLE

  456.hmmer: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
             -Qunroll2 -Qansi-alias /F512000000 shlw32m.lib
                         -link /FORCE:MULTIPLE

  458.sjeng: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
             -Qunroll4 /F512000000 shlw32m.lib
                         -link /FORCE:MULTIPLE

462.libquantum: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
             -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always
             /F512000000 shlw32m.lib           -link /FORCE:MULTIPLE

  464.h264ref: Same as 456.hmmer

C++ benchmarks:
    ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
    -Qcxx_features /F512000000 shlw32m.lib
                 -link /FORCE:MULTIPLE
```

# Peak Other Flags

C benchmarks:

```
    403.gcc: -Dalloca=_alloca
```

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/dell.ic10.windows.flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic10.windows.flags.xml

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