# SPEC® CINT2006 Result

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## Dell Inc.

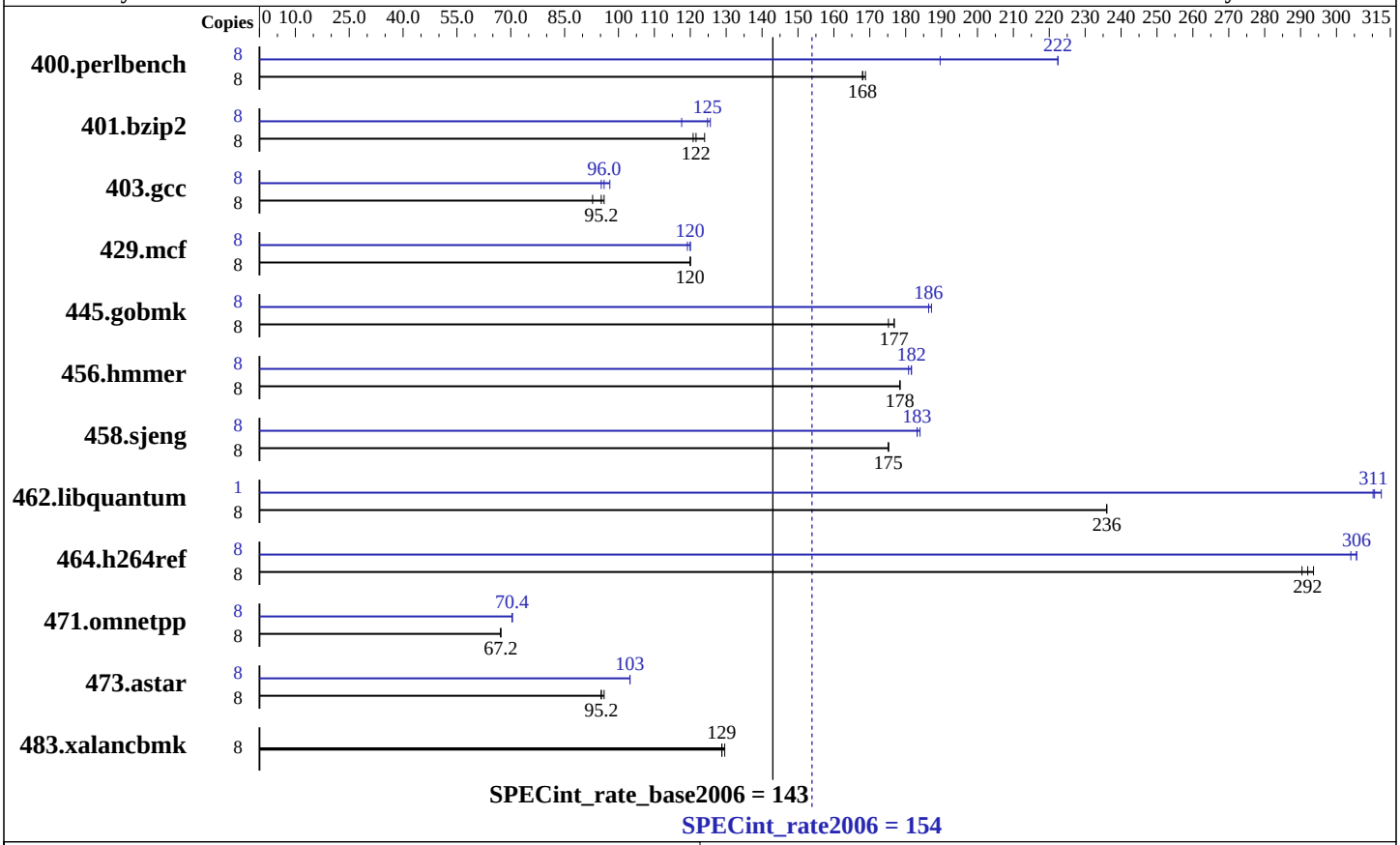
Dell Precision T7400 (Intel Xeon X5492, 3.40 GHz)

SPECint®_rate2006 = 154

SPECint_rate_base2006 = 143

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

**Test date:** Nov-2008
**Hardware Availability:** Sep-2008
**Software Availability:** Nov-2008




## Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon X5492 |
| CPU Characteristics: | 1600 MHz Bus Speed |
| CPU MHz: | 3400 |
| 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: | 12 MB I+D on chip per chip, 6 MB shared / 2 cores |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 16 GB (8x2 GB DDR2-800 FB-DIMM, CL5) |
| Disk Subsystem: | 1 x 80 GB SATA 7200 RPM |
| Other Hardware: | None |

## Software

| | |
|---|---|
| Operating System: | Windows Vista Business SP1 (64-bit) |
| Compiler: | Intel C++ Compiler for IA-32, Version 11.0 Build 20080930 Package ID: w_cproc_p_11.0.061 Microsoft Visual Studio 2008 SP1 |
| Auto Parallel: | Yes |
| File System: | NTFS |
| System State: | Default |
| Base Pointers: | 32-bit |
| Peak Pointers: | 32-bit |
| Other Software: | MicroQuill SmartHeap Library 8.1 |

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## Results Table

| Benchmark | Base | | | | | | | Peak | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 8 | 465 | 168 | **464** | **168** | 463 | 169 | 8 | 412 | 190 | 351 | 222 | **352** | **222** |
| 401.bzip2 | 8 | 638 | 121 | 622 | 124 | **636** | **122** | 8 | 615 | 126 | 655 | 118 | **619** | **125** |
| 403.gcc | 8 | **678** | **95.2** | 694 | 92.8 | 672 | 96.0 | 8 | **673** | **96.0** | 675 | 95.2 | 662 | 97.6 |
| 429.mcf | 8 | **608** | **120** | 607 | 120 | 609 | 120 | 8 | 613 | 119 | **608** | **120** | 607 | 120 |
| 445.gobmk | 8 | **475** | **177** | 474 | 177 | 478 | 175 | 8 | **449** | **186** | 450 | 186 | 449 | 187 |
| 456.hmmer | 8 | **418** | **178** | 419 | 178 | 418 | 178 | 8 | 413 | 181 | **412** | **182** | 411 | 182 |
| 458.sjeng | 8 | **552** | **175** | 552 | 175 | 552 | 175 | 8 | **527** | **183** | 529 | 183 | 527 | 184 |
| 462.libquantum | 8 | 702 | 236 | 704 | 236 | **703** | **236** | 1 | 66.8 | 310 | 66.3 | 313 | **66.7** | **311** |
| 464.h264ref | 8 | 609 | 290 | **606** | **292** | 603 | 294 | 8 | **580** | **306** | 583 | 304 | 579 | 306 |
| 471.omnetpp | 8 | 743 | 67.2 | **743** | **67.2** | 744 | 67.2 | 8 | 707 | 70.4 | **708** | **70.4** | 708 | 70.4 |
| 473.astar | 8 | 591 | 95.2 | 587 | 96.0 | **590** | **95.2** | 8 | **543** | **103** | 543 | 103 | 545 | 103 |
| 483.xalancbmk | 8 | **428** | **129** | 428 | 129 | 427 | 130 | 8 | **428** | **129** | 428 | 129 | 427 | 130 |

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)
```

## Base Compiler Invocation

C benchmarks:

```
icl -Qvc9 -Qstd=c99
```

C++ benchmarks:

```
icl -Qvc9
```

## Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

## Base Optimization Flags

C benchmarks:

```
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000
```

Continued on next page

## Base Optimization Flags (Continued)

C++ benchmarks:
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx_features
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

## Peak Compiler Invocation

C benchmarks:
icl -Qvc9 -Qstd=c99

C++ benchmarks:
icl -Qvc9

## Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

## Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -QxSSE4.1 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- /F512000000

429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

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## Peak Optimization Flags (Continued)

445.gobmk: `-Qprof_gen`(pass 1) `-QxSSE4.1`(pass 2) `-Qprof_use`(pass 2) `-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000`

456.hmmer: `-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000`

458.sjeng: `-Qprof_gen`(pass 1) `-QxSSE4.1`(pass 2) `-Qprof_use`(pass 2) `-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000`

462.libquantum: `-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000`

464.h264ref: `-Qprof_gen`(pass 1) `-QxSSE4.1`(pass 2) `-Qprof_use`(pass 2) `-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000`

C++ benchmarks:

471.omnetpp: `-Qprof_gen`(pass 1) `-QxSSE4.1`(pass 2) `-Qprof_use`(pass 2) `-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-ra-region-strategy=block /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

473.astar: `-Qprof_gen`(pass 1) `-QxSSE4.1`(pass 2) `-Qprof_use`(pass 2) `-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-ra-region-strategy=routine /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

483.xalancbmk: `basepeak = yes`

## 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.ic11.0.windows.flags.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/dell.ic11.0.windows.flags.xml`

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