# SPEC® CINT2006 Result

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## Dell Inc.

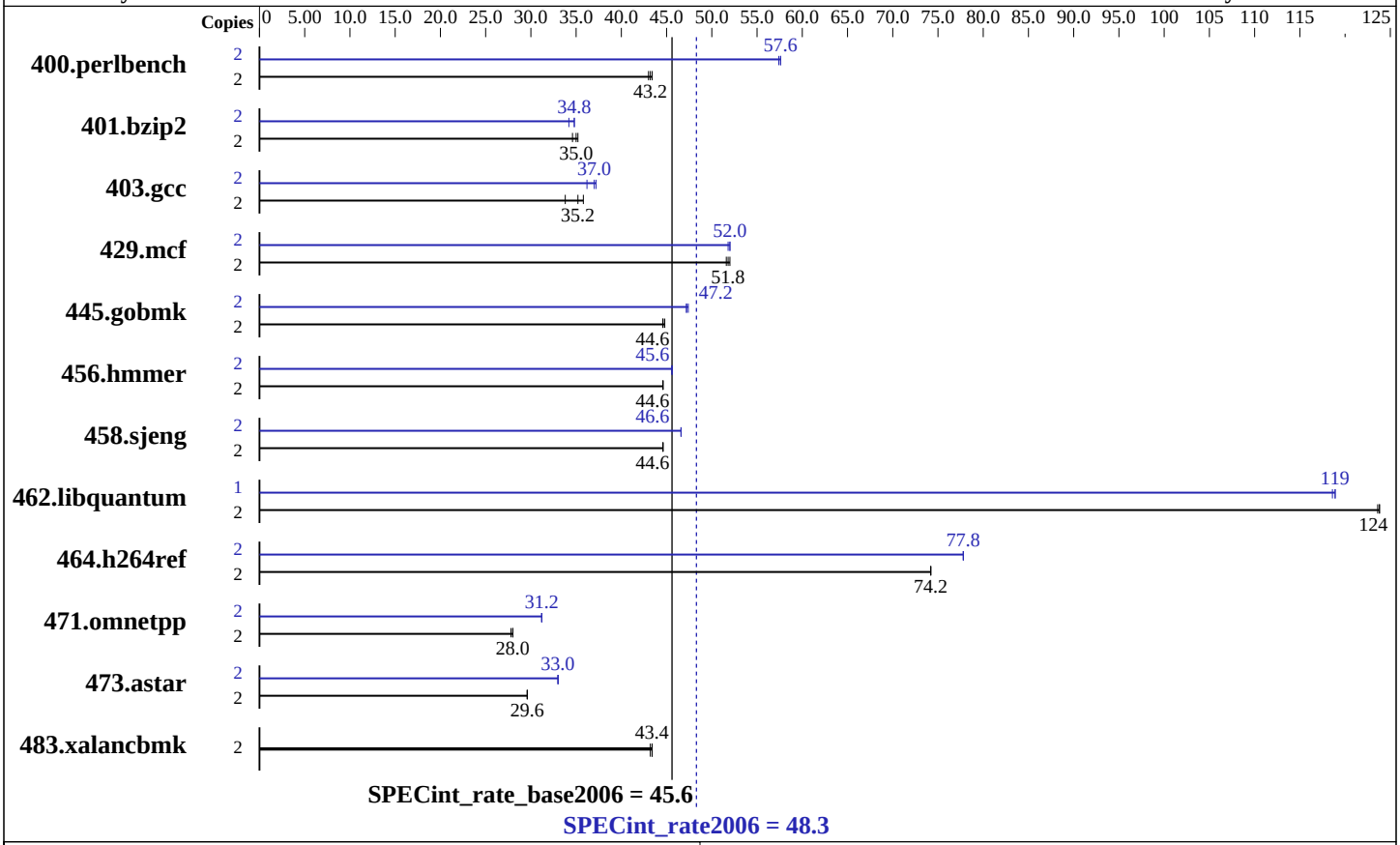
## Dell Precision T3400 (Intel E8600, 3.33 GHz)

SPECint®_rate2006 = 48.3

SPECint_rate_base2006 = 45.6

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

**Test date:** Nov-2008
**Hardware Availability:** Jan-2009
**Software Availability:** Nov-2008




### Hardware

| | |
|---|---|
| CPU Name: | Intel Core 2 Duo E8600 |
| CPU Characteristics: | 1333 MHz Bus Speed |
| CPU MHz: | 3333 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 1 chip, 2 cores/chip |
| CPU(s) orderable: | 1 chip |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 6 MB I+D on chip per chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 8 GB (4x2 GB DDR2-800, ECC, CL6) |
| Disk Subsystem: | 1 x 160 GB SATA 7200 RPM |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Windows Vista Ultimate 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 | 2 | 453 | 43.0 | 450 | 43.4 | **452** | **43.2** | 2 | 341 | 57.4 | 339 | 57.6 | **340** | **57.6** |
| 401.bzip2 | 2 | **551** | **35.0** | 557 | 34.6 | 547 | 35.2 | 2 | **556** | **34.8** | 563 | 34.2 | 555 | 34.8 |
| 403.gcc | 2 | 477 | 33.8 | 449 | 35.8 | **458** | **35.2** | 2 | **434** | **37.0** | 444 | 36.2 | 433 | 37.2 |
| 429.mcf | 2 | 351 | 52.0 | **352** | **51.8** | 353 | 51.6 | 2 | **351** | **52.0** | 352 | 51.8 | 351 | 52.0 |
| 445.gobmk | 2 | 470 | 44.6 | 469 | 44.8 | **470** | **44.6** | 2 | **444** | **47.2** | 444 | 47.2 | 442 | 47.4 |
| 456.hmmer | 2 | **419** | **44.6** | 419 | 44.6 | 418 | 44.6 | 2 | **409** | **45.6** | 409 | 45.6 | 409 | 45.6 |
| 458.sjeng | 2 | 543 | 44.6 | **543** | **44.6** | 543 | 44.6 | 2 | 520 | 46.6 | 520 | 46.6 | **520** | **46.6** |
| 462.libquantum | 2 | 335 | 124 | **335** | **124** | 335 | 124 | 1 | 174 | 119 | 175 | 119 | **174** | **119** |
| 464.h264ref | 2 | 597 | 74.2 | 596 | 74.2 | **597** | **74.2** | 2 | **569** | **77.8** | 569 | 77.8 | 569 | 77.8 |
| 471.omnetpp | 2 | 448 | 27.8 | **447** | **28.0** | 446 | 28.0 | 2 | **400** | **31.2** | 401 | 31.2 | 400 | 31.2 |
| 473.astar | 2 | **475** | **29.6** | 476 | 29.6 | 475 | 29.6 | 2 | 426 | 33.0 | **427** | **33.0** | 427 | 33.0 |
| 483.xalancbmk | 2 | 319 | 43.2 | **318** | **43.4** | 318 | 43.4 | 2 | 319 | 43.2 | **318** | **43.4** | 318 | 43.4 |

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
```

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## 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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