# SPEC® CINT2006 Result

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## Dell Inc.

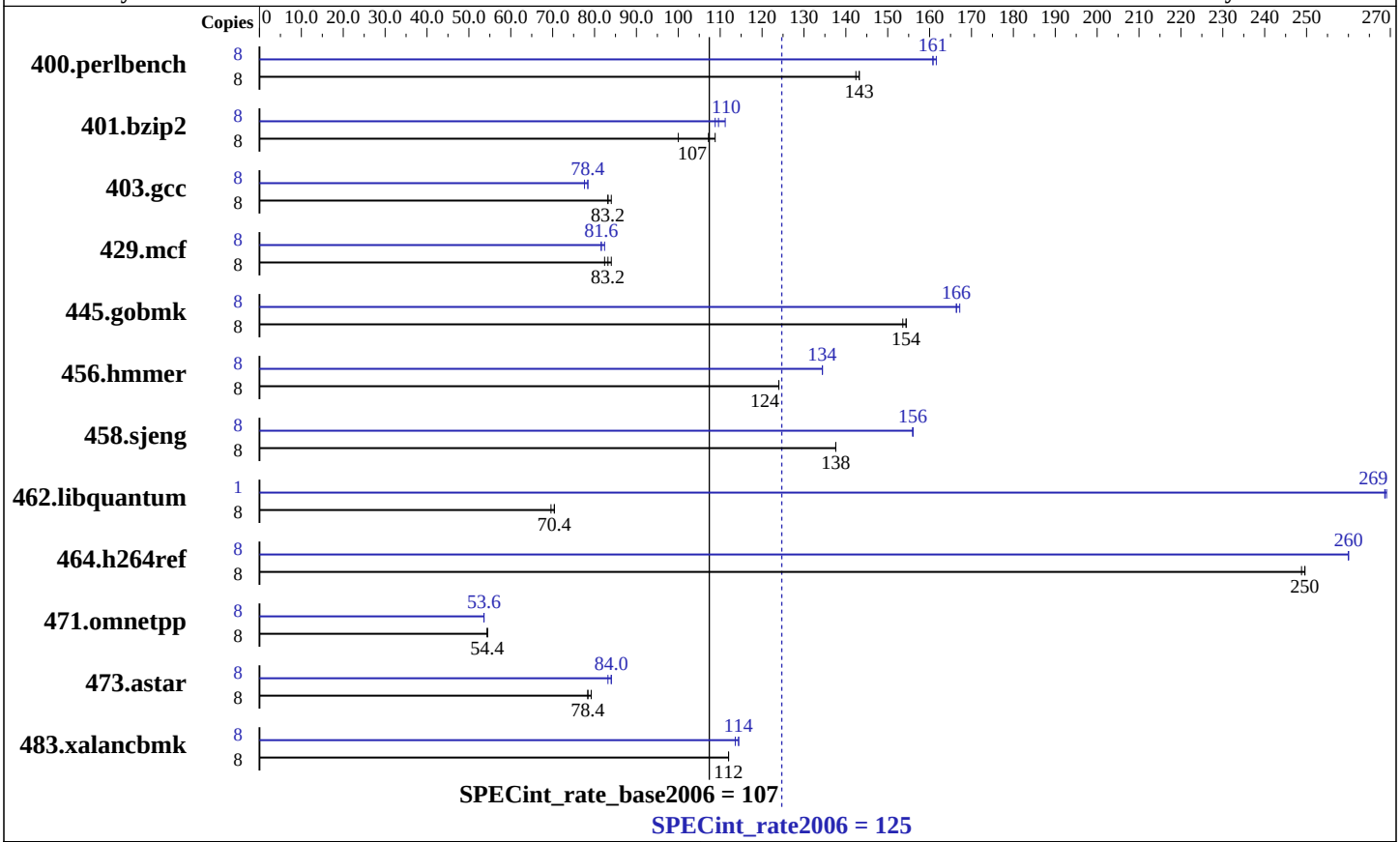
Dell Precision R5400 (Intel Xeon E5450, 3.00 GHz)

SPECint®_rate2006 = 125

SPECint_rate_base2006 = 107

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

**Test date:** Jun-2008
**Hardware Availability:** Jul-2008
**Software Availability:** Mar-2008




### Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon E5450 |
| CPU Characteristics: | 1333 MHz Bus Speed |
| CPU MHz: | 3000 |
| 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 (4x4 GB 667 MHz CL5 FB-DIMM) |
| Disk Subsystem: | 2 x 320 GB SATA 7200 RPM, RAID0 |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Windows Vista Ultimate (64-bit) |
| Compiler: | Intel C++ Compiler for IA-32, Version 10.1 Build 20080312 Package ID: w_cc_p_10.1.021 Microsoft Visual Studio 2005 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 | 549 | 142 | **547** | **143** | 546 | 143 | 8 | 483 | 162 | 486 | 161 | **485** | **161** |
| 401.bzip2 | 8 | 770 | 100 | **718** | **107** | 710 | 109 | 8 | 695 | 111 | **706** | **110** | 708 | 109 |
| 403.gcc | 8 | 777 | 83.2 | 770 | 84.0 | **776** | **83.2** | 8 | **824** | **78.4** | 818 | 78.4 | 831 | 77.6 |
| 429.mcf | 8 | 882 | 82.4 | 872 | 84.0 | **878** | **83.2** | 8 | 889 | 82.4 | 896 | 81.6 | **892** | **81.6** |
| 445.gobmk | 8 | 545 | 154 | **544** | **154** | 544 | 154 | 8 | 503 | 167 | **504** | **166** | 504 | 166 |
| 456.hmmer | 8 | 601 | 124 | **601** | **124** | 602 | 124 | 8 | **554** | **134** | 555 | 134 | 554 | 134 |
| 458.sjeng | 8 | 702 | 138 | 703 | 138 | **702** | **138** | 8 | **620** | **156** | 621 | 156 | 620 | 156 |
| 462.libquantum | 8 | 2367 | 70.4 | **2368** | **70.4** | 2373 | 69.6 | 1 | **77.1** | **269** | 77.0 | 269 | 77.1 | 269 |
| 464.h264ref | 8 | 708 | 250 | **709** | **250** | 712 | 249 | 8 | 680 | 260 | 681 | 260 | **681** | **260** |
| 471.omnetpp | 8 | 921 | 54.4 | **918** | **54.4** | 918 | 54.4 | 8 | 927 | 53.6 | **927** | **53.6** | 926 | 53.6 |
| 473.astar | 8 | **714** | **78.4** | 708 | 79.2 | 716 | 78.4 | 8 | 673 | 83.2 | 666 | 84.0 | **669** | **84.0** |
| 483.xalancbmk | 8 | 493 | 112 | **492** | **112** | 492 | 112 | 8 | 484 | 114 | 481 | 114 | **483** | **114** |

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 -Qstd=c99
```

C++ benchmarks:

```
icl
```

## 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:

```
-fast -Qvec-guard-write /F512000000
```

Continued on next page

## Base Optimization Flags (Continued)

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
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

## Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000

429.mcf: Same as 401.bzip2

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

Continued on next page

## Peak Optimization Flags (Continued)

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qparallel -Qpar-runtime-control /F512000000 shlw32mt.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=block -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=routine -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -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.ic10.1.windows.flags.20090713.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090713.00.xml

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