# SPEC® CINT2006 Result

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## Dell Inc.

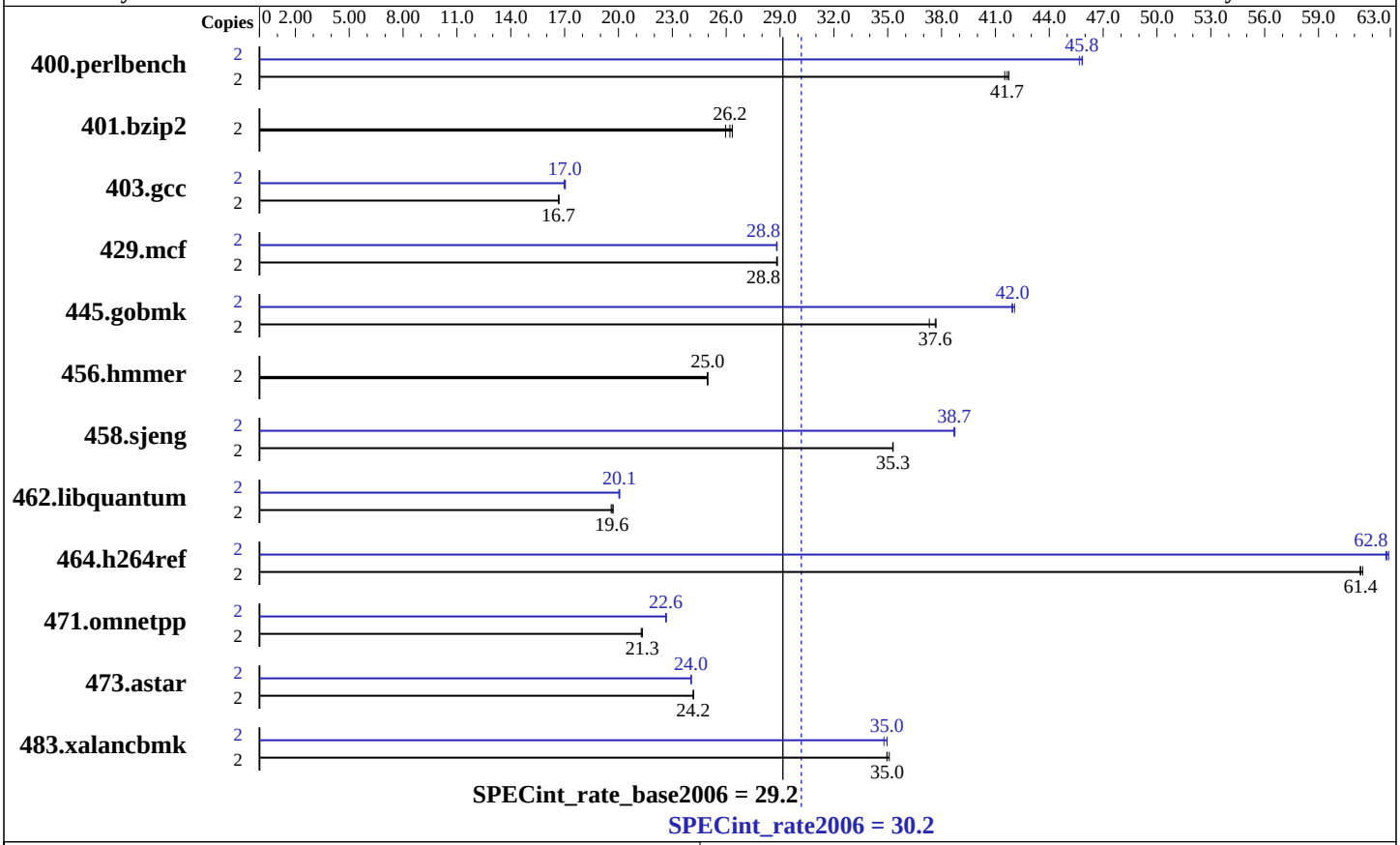
Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECint®_rate2006 = 30.2

SPECint_rate_base2006 = 29.2

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

**Test date:** Jan-2007
**Hardware Availability:** May-2006
**Software Availability:** Jan-2007




## Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon 5160 |
| CPU Characteristics: | 1333 MHz Bus Speed |
| CPU MHz: | 3000 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 1 chip, 2 cores/chip |
| CPU(s) orderable: | 1,2 chips |
| Primary Cache: | 32 KB I + 32 KB D on chip per core |
| Secondary Cache: | 4 MB I+D on chip per chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 8 GB (8x1 GB 667 MHz ECC CL5 DDR2 FB-DIMM) |
| Disk Subsystem: | 1 x 72 GB SAS 10K RPM |
| Other Hardware: | None |

## Software

| | |
|---|---|
| Operating System: | Windows XP Professional x64 Edition |
| Compiler: | Intel C++ Compiler 9.1 for IA32 (20061103Z)<br>Microsoft Visual Studio 2005 |
| 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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## Results Table

| Benchmark | Base | | | | | | | Peak | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 2 | 468 | 41.8 | 471 | 41.5 | **469** | **41.7** | 2 | **426** | **45.8** | 428 | 45.7 | 426 | 45.9 |
| 401.bzip2 | 2 | 733 | 26.3 | 743 | 26.0 | **736** | **26.2** | 2 | 733 | 26.3 | 743 | 26.0 | **736** | **26.2** |
| 403.gcc | 2 | 965 | 16.7 | 966 | 16.7 | **966** | **16.7** | 2 | 945 | 17.0 | **946** | **17.0** | 949 | 17.0 |
| 429.mcf | 2 | 632 | 28.9 | 633 | 28.8 | **633** | **28.8** | 2 | **633** | **28.8** | 632 | 28.8 | 633 | 28.8 |
| 445.gobmk | 2 | **557** | **37.6** | 562 | 37.3 | 557 | 37.7 | 2 | 500 | 41.9 | **500** | **42.0** | 499 | 42.1 |
| 456.hmmer | 2 | **747** | **25.0** | 747 | 25.0 | 748 | 25.0 | 2 | **747** | **25.0** | 747 | 25.0 | 748 | 25.0 |
| 458.sjeng | 2 | 686 | 35.3 | 686 | 35.3 | **686** | **35.3** | 2 | 625 | 38.7 | **625** | **38.7** | 625 | 38.7 |
| 462.libquantum | 2 | 2115 | 19.6 | 2103 | 19.7 | **2109** | **19.6** | 2 | **2066** | **20.1** | 2065 | 20.1 | 2069 | 20.0 |
| 464.h264ref | 2 | **721** | **61.4** | 720 | 61.5 | 722 | 61.3 | 2 | **705** | **62.8** | 704 | 62.9 | 705 | 62.7 |
| 471.omnetpp | 2 | 586 | 21.3 | **586** | **21.3** | 588 | 21.3 | 2 | **552** | **22.6** | 552 | 22.6 | 551 | 22.7 |
| 473.astar | 2 | **581** | **24.2** | 581 | 24.2 | 581 | 24.2 | 2 | 583 | 24.1 | **584** | **24.0** | 584 | 24.0 |
| 483.xalancbmk | 2 | 395 | 35.0 | 393 | 35.1 | **395** | **35.0** | 2 | 397 | 34.8 | **395** | **35.0** | 395 | 35.0 |

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

## General Notes

```
BIOS Settings
  Adjacent Cache Line Prefetch set to ON:
   Prefetch data in order to shorten execution
   cycles and maximize data processing efficiency.

  Snoop Filter set to OFF
   Snoop Filter preserves cache coherency while minimizing
   snoops to remote nodes.

32-bit binaries were built on Windows XP Professional x64 Edition
```

## Base Compiler Invocation

C benchmarks:
```
icl -Qc99
```

C++ benchmarks:
```
icl
```

## Base Portability Flags

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

Continued on next page

## Base Portability Flags (Continued)

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

## 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 -Qc99`

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: `ONESTEP -Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlW32M.lib -link /FORCE:MULTIPLE`

401.bzip2: `basepeak = yes`

Continued on next page

## Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

429.mcf: ONESTEP -fast /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlW32M.lib -link /FORCE:MULTIPLE

456.hmmer: basepeak = yes

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qcxx_features /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

473.astar: Same as 471.omnetpp

483.xalancbmk: ONESTEP -fast -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.cpu2006.ic91.flags.20090715.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.xml

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:58:14 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 7 February 2007.