



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 33.5

Dell Precision 690 (Intel 5160, 3.00 GHz)

SPECint_rate_base2006 = 30.4

CPU2006 license: 55

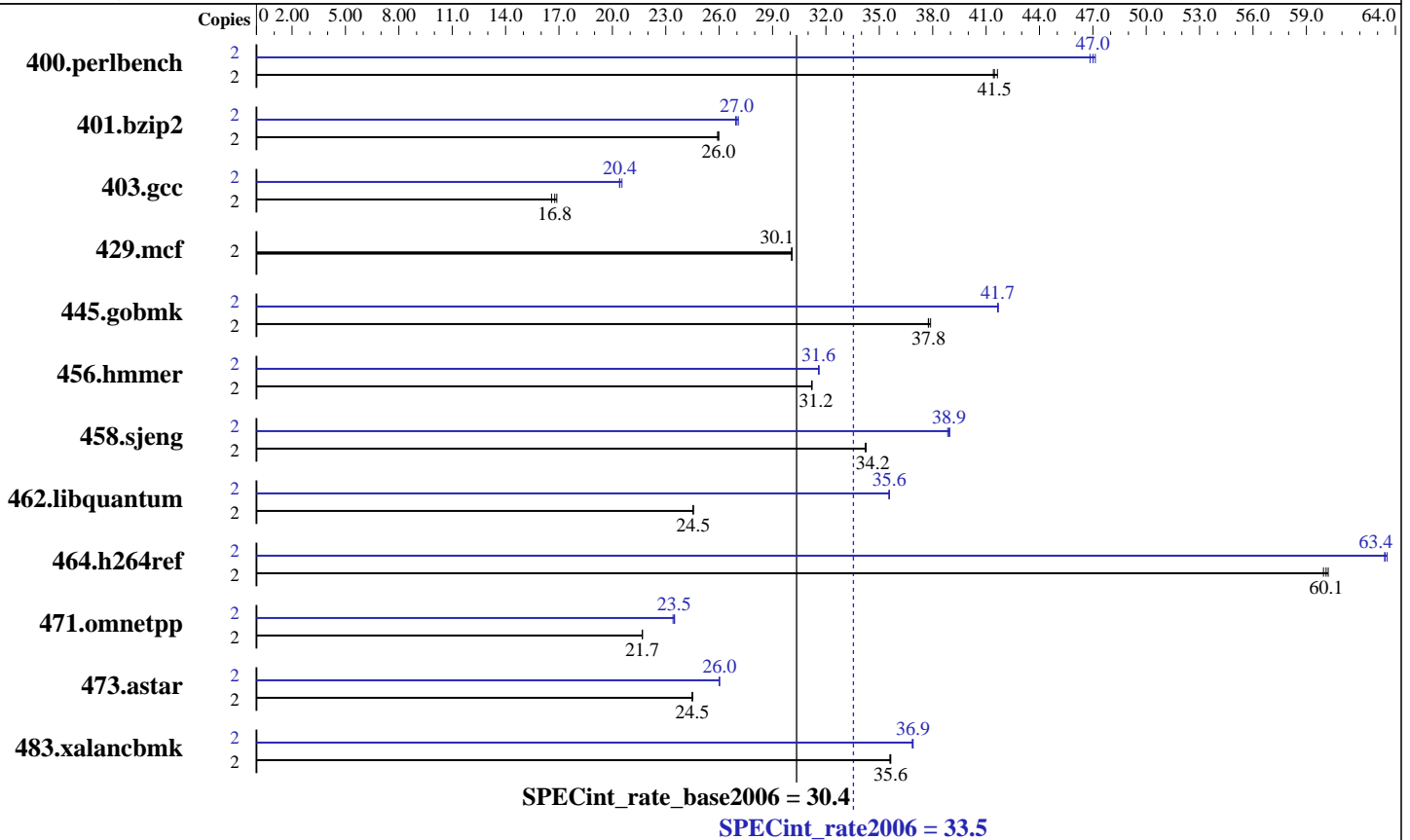
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: May-2006

Tested by: Dell Inc.

Software Availability: Jun-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 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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Results Table

| Benchmark | Base | | | | | | Peak | | | | | | | |
|----------------|--------|------------|-------------|-------------|-------------|------------|-------------|--------|-------------|-------------|------------|-------------|------------|-------------|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 2 | 472 | 41.4 | 469 | 41.6 | <u>471</u> | <u>41.5</u> | 2 | <u>416</u> | <u>47.0</u> | 415 | 47.1 | 417 | 46.8 |
| 401.bzip2 | 2 | 743 | 26.0 | 745 | 25.9 | <u>743</u> | <u>26.0</u> | 2 | 717 | 26.9 | 713 | 27.1 | <u>715</u> | <u>27.0</u> |
| 403.gcc | 2 | <u>961</u> | <u>16.8</u> | 954 | 16.9 | 971 | 16.6 | 2 | 784 | 20.5 | 789 | 20.4 | <u>788</u> | <u>20.4</u> |
| 429.mcf | 2 | <u>606</u> | <u>30.1</u> | 607 | 30.1 | 606 | 30.1 | 2 | <u>606</u> | <u>30.1</u> | 607 | 30.1 | 606 | 30.1 |
| 445.gobmk | 2 | 554 | 37.9 | <u>555</u> | <u>37.8</u> | 556 | 37.8 | 2 | <u>504</u> | <u>41.7</u> | 504 | 41.7 | 503 | 41.7 |
| 456.hammer | 2 | 598 | 31.2 | <u>598</u> | <u>31.2</u> | 598 | 31.2 | 2 | 591 | 31.6 | <u>591</u> | <u>31.6</u> | 590 | 31.6 |
| 458.sjeng | 2 | <u>707</u> | <u>34.2</u> | 707 | 34.2 | 706 | 34.3 | 2 | 623 | 38.8 | <u>622</u> | <u>38.9</u> | 621 | 39.0 |
| 462.libquantum | 2 | 1688 | 24.5 | <u>1688</u> | <u>24.5</u> | 1689 | 24.5 | 2 | <u>1165</u> | <u>35.6</u> | 1166 | 35.5 | 1165 | 35.6 |
| 464.h264ref | 2 | 735 | 60.2 | 738 | 60.0 | <u>736</u> | <u>60.1</u> | 2 | 698 | 63.4 | 697 | 63.5 | <u>698</u> | <u>63.4</u> |
| 471.omnetpp | 2 | 576 | 21.7 | 577 | 21.7 | <u>576</u> | <u>21.7</u> | 2 | <u>532</u> | <u>23.5</u> | 534 | 23.4 | 532 | 23.5 |
| 473.astar | 2 | <u>573</u> | <u>24.5</u> | 573 | 24.5 | 573 | 24.5 | 2 | 540 | 26.0 | 540 | 26.0 | <u>540</u> | <u>26.0</u> |
| 483.xalancbmk | 2 | 387 | 35.6 | 388 | 35.6 | <u>387</u> | <u>35.6</u> | 2 | 375 | 36.8 | 374 | 36.9 | <u>374</u> | <u>36.9</u> |

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 : ON
Hardware Prefetcher : ON

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.

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.hmmmer: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll12 -Qansi-alias /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

458.sjeng: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll14 /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

462.libquantum: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll14 -Ob0 -Qprefetch -Qopt-streaming-stores:always
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmmer

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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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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