



SPEC[®] CINT2006 Result

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Dell Inc.

SPECint[®]_rate2006 = 31.0

PowerEdge 2900 (Intel Xeon 5150, 2.66 GHz)

SPECint_rate_base2006 = 27.7

CPU2006 license: 55

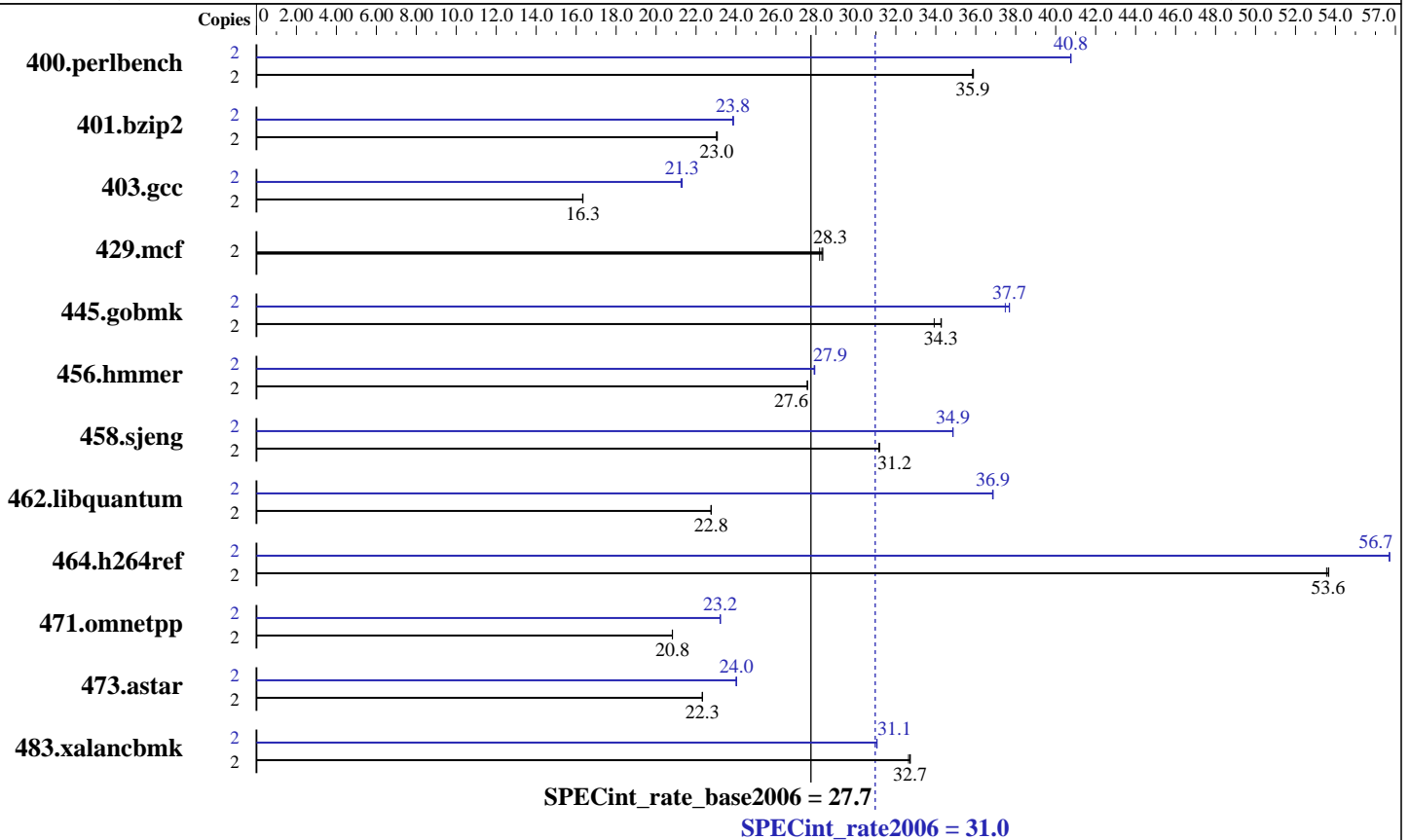
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: Jul-2006

Tested by: Dell Inc.

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5150
 CPU Characteristics: Intel Xeon 5150
 CPU MHz: 2666
 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 (8 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
 Disk Subsystem: 1 x 146 GB SAS, 15K RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise x64
 Compiler: Intel C++ Compiler for IA32 version 10.0
 Build 20070426 Package ID: W_CC_P_10.0.025
 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library Version 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 | 545 | 35.9 | 545 | 35.8 | 545 | 35.9 | 2 | 479 | 40.8 | 480 | 40.8 | 480 | 40.7 |
| 401.bzip2 | 2 | 837 | 23.1 | 838 | 23.0 | 838 | 23.0 | 2 | 809 | 23.8 | 809 | 23.8 | 808 | 23.9 |
| 403.gcc | 2 | 985 | 16.3 | 986 | 16.3 | 986 | 16.3 | 2 | 756 | 21.3 | 756 | 21.3 | 758 | 21.2 |
| 429.mcf | 2 | 645 | 28.3 | 647 | 28.2 | 644 | 28.3 | 2 | 645 | 28.3 | 647 | 28.2 | 644 | 28.3 |
| 445.gobmk | 2 | 619 | 33.9 | 612 | 34.3 | 612 | 34.3 | 2 | 557 | 37.7 | 560 | 37.5 | 557 | 37.7 |
| 456.hammer | 2 | 677 | 27.6 | 677 | 27.6 | 677 | 27.6 | 2 | 668 | 27.9 | 668 | 27.9 | 668 | 27.9 |
| 458.sjeng | 2 | 777 | 31.2 | 776 | 31.2 | 776 | 31.2 | 2 | 694 | 34.9 | 694 | 34.9 | 694 | 34.8 |
| 462.libquantum | 2 | 1821 | 22.8 | 1821 | 22.8 | 1821 | 22.8 | 2 | 1125 | 36.8 | 1124 | 36.9 | 1124 | 36.9 |
| 464.h264ref | 2 | 825 | 53.6 | 825 | 53.7 | 826 | 53.6 | 2 | 781 | 56.7 | 780 | 56.7 | 781 | 56.7 |
| 471.omnetpp | 2 | 600 | 20.8 | 601 | 20.8 | 601 | 20.8 | 2 | 538 | 23.2 | 539 | 23.2 | 539 | 23.2 |
| 473.astar | 2 | 629 | 22.3 | 629 | 22.3 | 629 | 22.3 | 2 | 585 | 24.0 | 584 | 24.0 | 584 | 24.0 |
| 483.xalancbmk | 2 | 422 | 32.7 | 423 | 32.6 | 422 | 32.7 | 2 | 444 | 31.1 | 445 | 31.0 | 444 | 31.1 |

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

General Notes

"start /b /wait /affinity" used to bind processes to cores

Base Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99
C++ benchmarks:
icl -Qvc7.1

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



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Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Peak Portability Flags

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

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

403.gcc: -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.hmmcr: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

```
462.libquantum: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
                -Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000
                shlw32m.lib -link /FORCE:MULTIPLE
```

464.h264ref: Same as 456.hmmer

C++ benchmarks:

```
-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-Intel-ic10-ia32.20090714.00.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32.20090714.00.xml>

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For other inquiries, please contact webmaster@spec.org.

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