



# SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint®\_rate2006 = 68.8

Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint\_rate\_base2006 = 61.4

CPU2006 license: 55

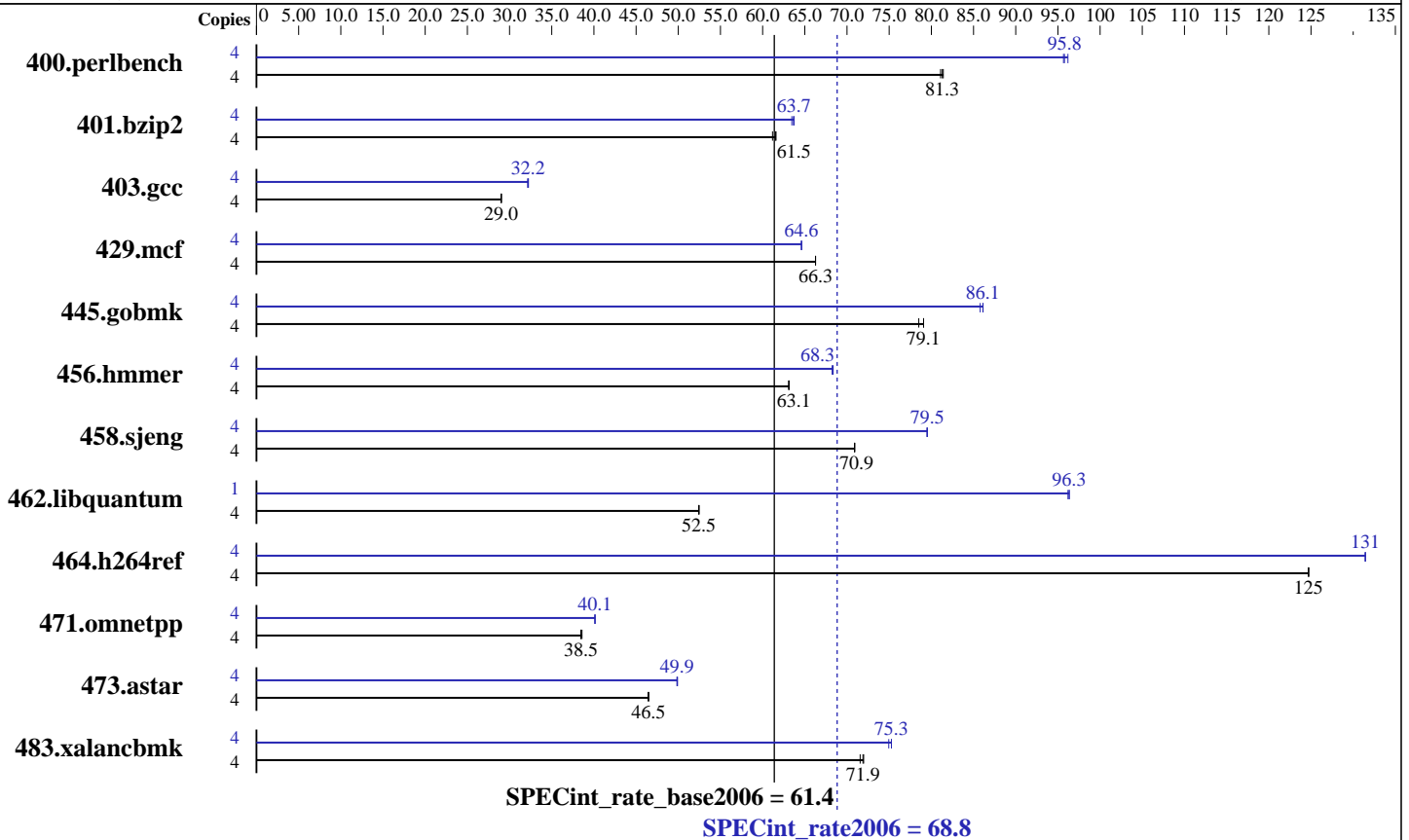
Test date: Dec-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2008

Tested by: Dell Inc.

Software Availability: Nov-2007



## Hardware

CPU Name: Intel Core 2 Extreme QX9650  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
 CPU(s) orderable: 1 chip  
 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: 8 GB (4x2 GB 800 MHz ECC CL6 DDR2)  
 Disk Subsystem: 1 x 80 GB SATA 7200 RPM  
 Other Hardware: None

## Software

Operating System: Windows XP Professional x64 Edition SP2  
 Compiler: Intel C++ Compiler for IA-32, Version 10.1  
 Build 20070913 Package ID: w\_cc\_p\_10.1.011  
 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



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 68.8

Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint\_rate\_base2006 = 61.4

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

Test date: Dec-2007  
Hardware Availability: Jan-2008  
Software Availability: Nov-2007

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	<b>481</b>	<b>81.3</b>	480	81.4	482	81.1	4	406	96.2	<b>408</b>	<b>95.8</b>	409	95.7
401.bzip2	4	631	61.2	627	61.6	<b>627</b>	<b>61.5</b>	4	606	63.7	<b>606</b>	<b>63.7</b>	608	63.5
403.gcc	4	1111	29.0	1108	29.1	<b>1110</b>	<b>29.0</b>	4	<b>1000</b>	<b>32.2</b>	1002	32.1	999	32.2
429.mcf	4	550	66.3	551	66.3	<b>550</b>	<b>66.3</b>	4	565	64.6	<b>565</b>	<b>64.6</b>	565	64.6
445.gobmk	4	534	78.5	<b>531</b>	<b>79.1</b>	531	79.1	4	487	86.1	<b>487</b>	<b>86.1</b>	489	85.8
456.hammer	4	591	63.1	<b>591</b>	<b>63.1</b>	592	63.1	4	<b>546</b>	<b>68.3</b>	547	68.2	546	68.4
458.sjeng	4	683	70.9	<b>683</b>	<b>70.9</b>	682	70.9	4	609	79.5	<b>609</b>	<b>79.5</b>	609	79.5
462.libquantum	4	1580	52.5	1581	52.4	<b>1580</b>	<b>52.5</b>	1	<b>215</b>	<b>96.3</b>	215	96.2	215	96.4
464.h264ref	4	710	125	710	125	<b>710</b>	<b>125</b>	4	673	131	<b>673</b>	<b>131</b>	674	131
471.omnetpp	4	648	38.6	<b>650</b>	<b>38.5</b>	650	38.5	4	623	40.1	<b>623</b>	<b>40.1</b>	623	40.1
473.astar	4	605	46.4	<b>604</b>	<b>46.5</b>	604	46.5	4	563	49.8	<b>563</b>	<b>49.9</b>	563	49.9
483.xalancbmk	4	383	72.0	386	71.6	<b>384</b>	<b>71.9</b>	4	<b>367</b>	<b>75.3</b>	368	74.9	367	75.3

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 shlw32m.lib  
-link /FORCE:MULTIPLE

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 68.8

Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint\_rate\_base2006 = 61.4

CPU2006 license: 55

Test date: Dec-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2008

Tested by: Dell Inc.

Software Availability: Nov-2007

## 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 shlw32m.lib
-link /FORCE:MULTIPLE
```

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

```
403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
-link /FORCE:MULTIPLE
```

```
429.mcf: Same as 401.bzip2
```

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

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 68.8

Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint\_rate\_base2006 = 61.4

CPU2006 license: 55

Test date: Dec-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2008

Tested by: Dell Inc.

Software Availability: Nov-2007

## Peak Optimization Flags (Continued)

456.hmmcr: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias -Qopt-multi-version-aggressive /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE

458.sjeng: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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

464.h264ref: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

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.20090714.01.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.20090714.01.xml>



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 68.8

Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint\_rate\_base2006 = 61.4

CPU2006 license: 55

Test date: Dec-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2008

Tested by: Dell Inc.

Software Availability: Nov-2007

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 14:59:53 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 26 December 2007.