



# SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint®\_rate2006 = 44.4

PowerEdge 860 (Intel Xeon X3220, 2.40 GHz)

SPECint\_rate\_base2006 = 43.2

CPU2006 license: 55

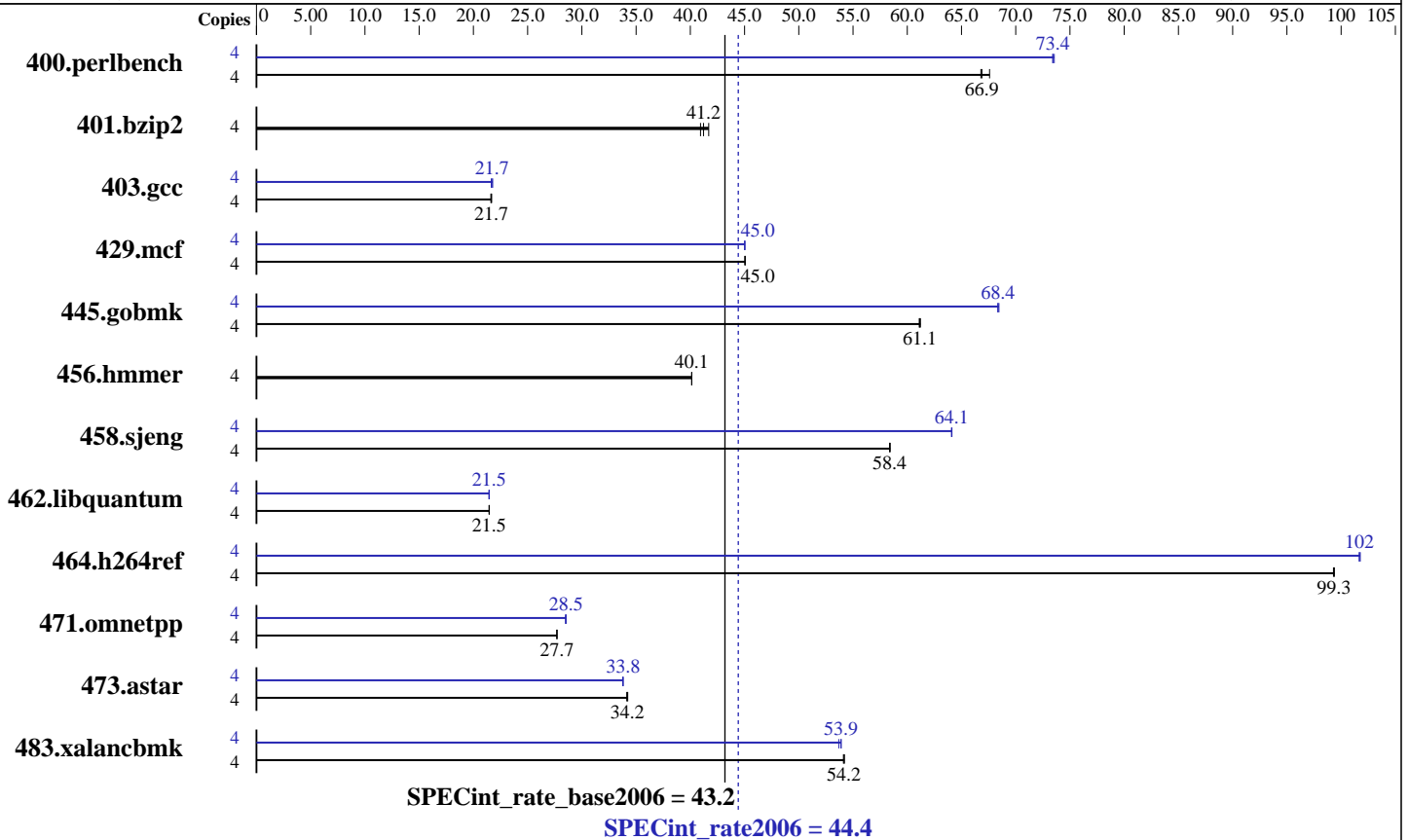
Test date: Jan-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2007

Tested by: Dell Inc.

Software Availability: Oct-2006



## Hardware

CPU Name: Intel Xeon X3220  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 2400  
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4 GB (4x1 GB 667MHz ECC DDR2 SDRAM)  
 Disk Subsystem: 1 x 73GB SAS 10000 RPM  
 Other Hardware: None

## Software

Operating System: Windows Server 2003 x64 Enterprise Edition  
 Compiler: Intel C++ Compiler 9.1 for IA32 (20061103Z)  
 Microsoft Visual Studio 2005 (8.0.50727.42)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: MicroQuill SmartHeap Library 8.0



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 44.4

PowerEdge 860 (Intel Xeon X3220, 2.40 GHz)

SPECint\_rate\_base2006 = 43.2

CPU2006 license: 55

Test date: Jan-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2007

Tested by: Dell Inc.

Software Availability: Oct-2006

## Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
400.perlbench	4	578	67.6	<b>584</b>	<b>66.9</b>	585	66.8	4	<b>532</b>	<b>73.4</b>	531	73.6	532	73.4		
401.bzip2	4	<b>936</b>	<b>41.2</b>	926	41.7	943	40.9	4	<b>936</b>	<b>41.2</b>	926	41.7	943	40.9		
403.gcc	4	<b>1487</b>	<b>21.7</b>	1485	21.7	1490	21.6	4	<b>1483</b>	<b>21.7</b>	1488	21.6	1478	21.8		
429.mcf	4	<b>810</b>	<b>45.0</b>	810	45.0	810	45.1	4	810	45.0	810	45.0	<b>810</b>	<b>45.0</b>		
445.gobmk	4	687	61.1	685	61.2	<b>686</b>	<b>61.1</b>	4	613	68.5	<b>614</b>	<b>68.4</b>	614	68.3		
456.hammer	4	930	40.1	930	40.1	<b>930</b>	<b>40.1</b>	4	930	40.1	930	40.1	<b>930</b>	<b>40.1</b>		
458.sjeng	4	<b>829</b>	<b>58.4</b>	828	58.4	829	58.4	4	755	64.1	755	64.1	<b>755</b>	<b>64.1</b>		
462.libquantum	4	3864	21.4	<b>3863</b>	<b>21.5</b>	3861	21.5	4	3866	21.4	<b>3862</b>	<b>21.5</b>	3862	21.5		
464.h264ref	4	892	99.3	891	99.4	<b>891</b>	<b>99.3</b>	4	<b>870</b>	<b>102</b>	871	102	870	102		
471.omnetpp	4	902	27.7	903	27.7	<b>902</b>	<b>27.7</b>	4	876	28.5	<b>876</b>	<b>28.5</b>	877	28.5		
473.astar	4	820	34.2	823	34.1	<b>821</b>	<b>34.2</b>	4	831	33.8	<b>831</b>	<b>33.8</b>	831	33.8		
483.xalancbmk	4	<b>510</b>	<b>54.2</b>	509	54.2	510	54.1	4	512	53.9	<b>512</b>	<b>53.9</b>	514	53.7		

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

## General Notes

Adjacent Sector Prefetch disabled in BIOS, default enabled  
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  
483.xalancbmk: -Qoption,cpp,--no\_wchar\_t\_keyword

## Base Optimization Flags

C benchmarks:  
-fast /F512000000 shlw32M.lib -link /FORCE:MULTIPLE

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 44.4

PowerEdge 860 (Intel Xeon X3220, 2.40 GHz)

SPECint\_rate\_base2006 = 43.2

CPU2006 license: 55

Test date: Jan-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2007

Tested by: Dell Inc.

Software Availability: Oct-2006

## 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 -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
```

```
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
```

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint\_rate2006 = 44.4

PowerEdge 860 (Intel Xeon X3220, 2.40 GHz)

SPECint\_rate\_base2006 = 43.2

CPU2006 license: 55

Test date: Jan-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2007

Tested by: Dell Inc.

Software Availability: Oct-2006

## Peak Optimization Flags (Continued)

456.hmmmer: 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>

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 10:58:05 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 7 February 2007.