



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®\_rate2006 = 40.6

PowerEdge 860 (Intel Xeon X3210, 2.13 GHz)

SPECint\_rate\_base2006 = 39.5

CPU2006 license: 55

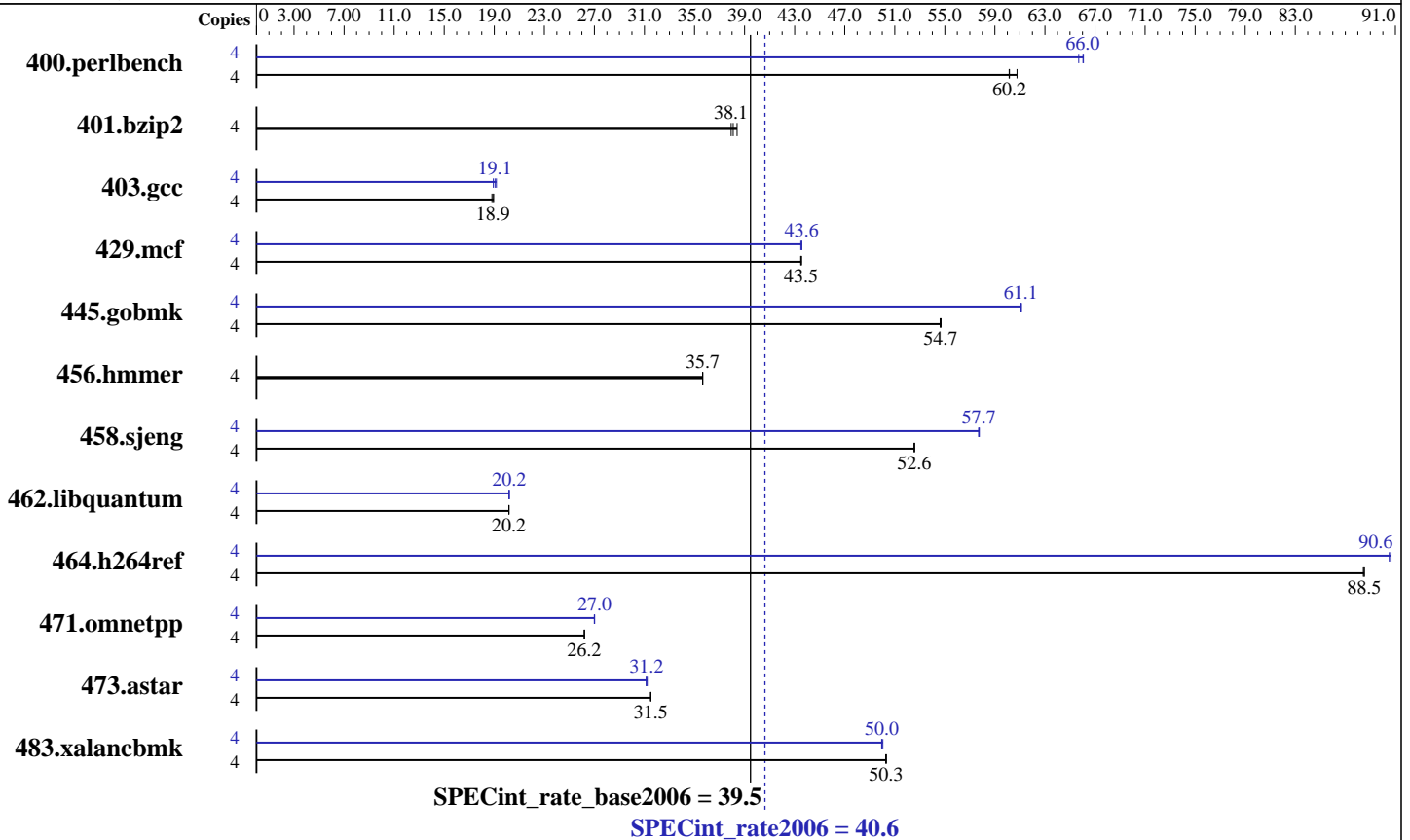
Test date: Jan-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2007

Tested by: Dell Inc.

Software Availability: Oct-2006



## Hardware

CPU Name: Intel Xeon X3210  
 CPU Characteristics: 1066MHz system bus  
 CPU MHz: 2133  
 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: 8 GB (4x2 GB 533MHz ECC DDR2 SDRAM)  
 Disk Subsystem: 1 x 73GB SAS 10000 RPM  
 Other Hardware: None

## Software

Operating System: Windows Server 2003 Standard 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



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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	4	643	60.8	650	60.1	<b>650</b>	<b>60.2</b>	4	591	66.1	<b>592</b>	<b>66.0</b>	595	65.7
401.bzip2	4	<b>1013</b>	<b>38.1</b>	1005	38.4	1018	37.9	4	<b>1013</b>	<b>38.1</b>	1005	38.4	1018	37.9
403.gcc	4	1699	19.0	<b>1705</b>	<b>18.9</b>	1712	18.8	4	<b>1689</b>	<b>19.1</b>	1702	18.9	1680	19.2
429.mcf	4	<b>838</b>	<b>43.5</b>	838	43.5	839	43.5	4	839	43.5	<b>837</b>	<b>43.6</b>	837	43.6
445.gobmk	4	767	54.7	<b>768</b>	<b>54.7</b>	768	54.6	4	<b>687</b>	<b>61.1</b>	687	61.1	686	61.1
456.hammer	4	<b>1047</b>	<b>35.7</b>	1047	35.7	1047	35.6	4	<b>1047</b>	<b>35.7</b>	1047	35.7	1047	35.6
458.sjeng	4	921	52.5	<b>921</b>	<b>52.6</b>	920	52.6	4	839	57.7	<b>838</b>	<b>57.7</b>	838	57.8
462.libquantum	4	4109	20.2	<b>4109</b>	<b>20.2</b>	4110	20.2	4	<b>4105</b>	<b>20.2</b>	4107	20.2	4104	20.2
464.h264ref	4	1000	88.5	<b>1000</b>	<b>88.5</b>	1001	88.4	4	<b>977</b>	<b>90.6</b>	976	90.7	978	90.5
471.omnetpp	4	954	26.2	<b>954</b>	<b>26.2</b>	954	26.2	4	<b>925</b>	<b>27.0</b>	926	27.0	925	27.0
473.astar	4	<b>891</b>	<b>31.5</b>	891	31.5	892	31.5	4	<b>901</b>	<b>31.2</b>	899	31.2	902	31.1
483.xalanbmk	4	<b>549</b>	<b>50.3</b>	549	50.3	548	50.3	4	<b>552</b>	<b>50.0</b>	551	50.0	553	50.0

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.xalanbmk: -Qoption,cpp,--no\_wchar\_t\_keyword

## Base Optimization Flags

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

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## 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
```

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## Peak Optimization Flags (Continued)

456.hmmr: 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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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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