



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 44.2

PowerEdge 840 (Intel Xeon X3220, 2.40 GHz)

SPECint_rate_base2006 = 43.0

CPU2006 license: 55

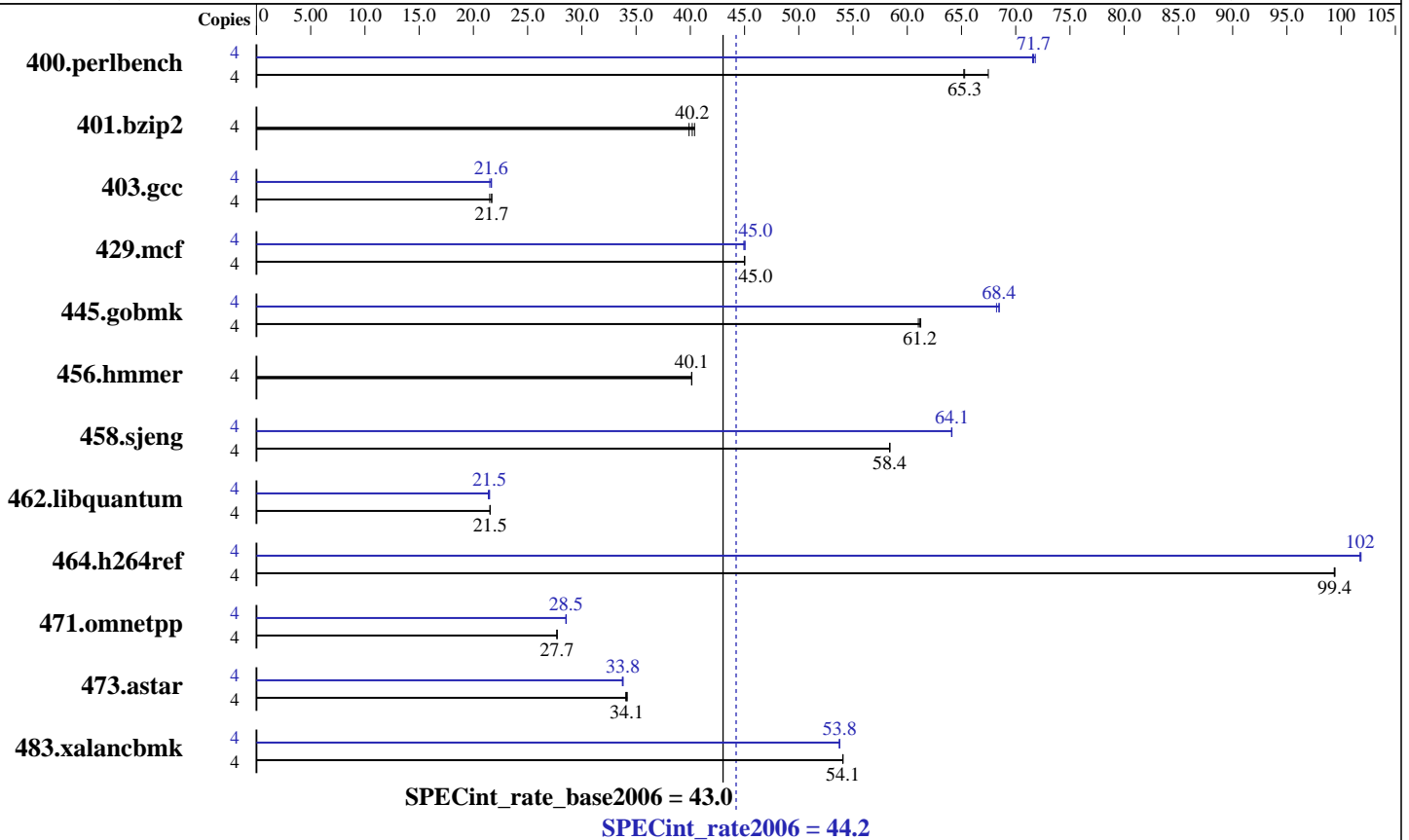
Test date: Jan-2007

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



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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	579	67.5	599	65.2	<u>599</u>	<u>65.3</u>	4	546	71.6	544	71.8	<u>545</u>	<u>71.7</u>
401.bzip2	4	<u>961</u>	<u>40.2</u>	956	40.4	968	39.9	4	<u>961</u>	<u>40.2</u>	956	40.4	968	39.9
403.gcc	4	1484	21.7	1497	21.5	<u>1486</u>	<u>21.7</u>	4	<u>1488</u>	<u>21.6</u>	1497	21.5	1486	21.7
429.mcf	4	810	45.0	811	45.0	<u>810</u>	<u>45.0</u>	4	812	44.9	<u>811</u>	<u>45.0</u>	810	45.0
445.gobmk	4	685	61.2	<u>686</u>	<u>61.2</u>	688	61.0	4	613	68.5	615	68.2	<u>613</u>	<u>68.4</u>
456.hammer	4	930	40.1	<u>930</u>	<u>40.1</u>	930	40.1	4	930	40.1	<u>930</u>	<u>40.1</u>	930	40.1
458.sjeng	4	829	58.4	<u>829</u>	<u>58.4</u>	829	58.4	4	<u>755</u>	<u>64.1</u>	755	64.1	755	64.1
462.libquantum	4	3849	21.5	3846	21.5	<u>3848</u>	<u>21.5</u>	4	<u>3859</u>	<u>21.5</u>	3857	21.5	3877	21.4
464.h264ref	4	890	99.4	891	99.4	<u>890</u>	<u>99.4</u>	4	869	102	<u>870</u>	<u>102</u>	870	102
471.omnetpp	4	902	27.7	<u>902</u>	<u>27.7</u>	902	27.7	4	875	28.6	876	28.5	<u>876</u>	<u>28.5</u>
473.astar	4	825	34.0	<u>823</u>	<u>34.1</u>	821	34.2	4	<u>832</u>	<u>33.8</u>	832	33.7	831	33.8
483.xalanbmk	4	<u>510</u>	<u>54.1</u>	510	54.1	511	54.1	4	<u>513</u>	<u>53.8</u>	514	53.7	513	53.8

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.hmmcr: 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.

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