



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 41.0

PowerEdge 840 (Intel Xeon X3210, 2.13 GHz)

SPECint_rate_base2006 = 39.8

CPU2006 license: 55

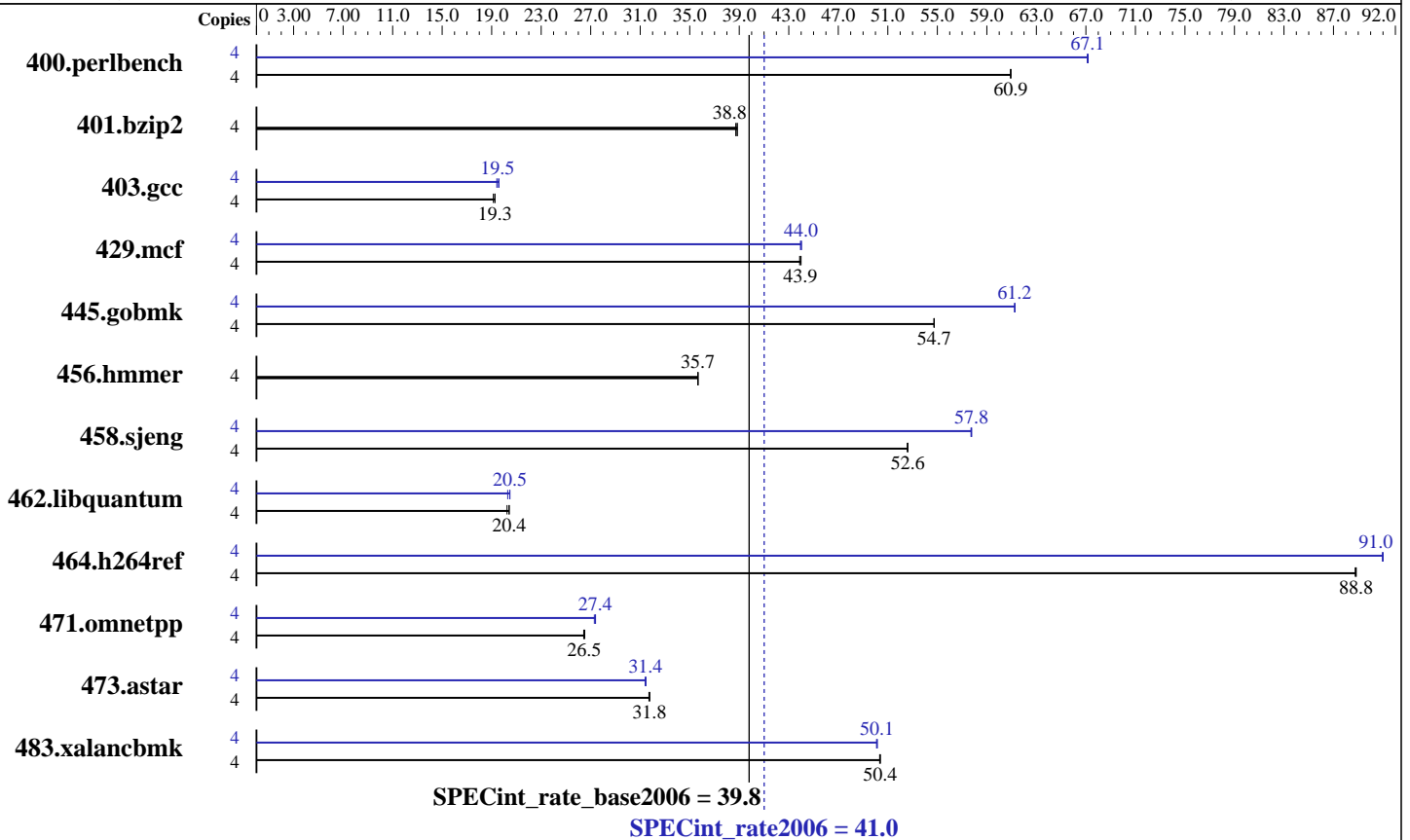
Test date: Jan-2007

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	641	60.9	642	60.9	641	60.9	4	582	67.2	582	67.1	582	67.1
401.bzip2	4	994	38.8	997	38.7	994	38.8	4	994	38.8	997	38.7	994	38.8
403.gcc	4	1683	19.1	1672	19.3	1672	19.3	4	1659	19.4	1653	19.5	1644	19.6
429.mcf	4	831	43.9	829	44.0	830	43.9	4	830	43.9	829	44.0	829	44.0
445.gobmk	4	767	54.7	766	54.8	767	54.7	4	685	61.2	685	61.2	685	61.3
456.hammer	4	1046	35.7	1046	35.7	1047	35.7	4	1046	35.7	1046	35.7	1047	35.7
458.sjeng	4	920	52.6	920	52.6	921	52.6	4	839	57.7	838	57.8	838	57.8
462.libquantum	4	4095	20.2	4061	20.4	4060	20.4	4	4083	20.3	4049	20.5	4049	20.5
464.h264ref	4	997	88.8	996	88.8	997	88.8	4	973	91.0	973	91.0	973	91.0
471.omnetpp	4	946	26.4	943	26.5	944	26.5	4	916	27.3	913	27.4	913	27.4
473.astar	4	886	31.7	884	31.8	884	31.8	4	894	31.4	892	31.5	893	31.4
483.xalanbmk	4	548	50.4	548	50.3	548	50.4	4	550	50.1	551	50.1	551	50.1

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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