SPEC® CINT2006 Result

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Dell Inc.

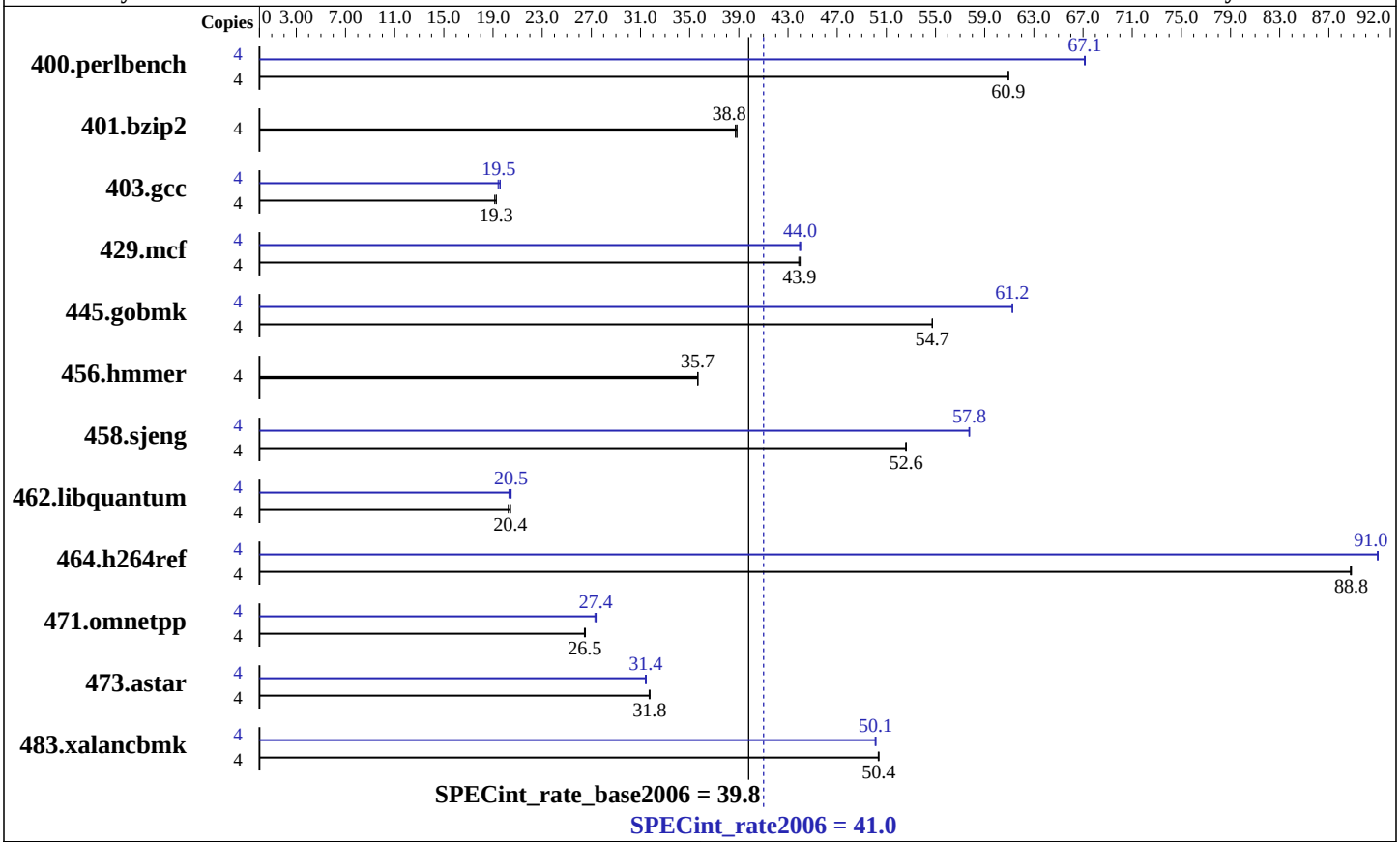
PowerEdge 840 (Intel Xeon X3210, 2.13 GHz)

SPECint®_rate2006 = 41.0

SPECint_rate_base2006 = 39.8

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

Test date: Jan-2007
Hardware Availability: Jan-2007
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.hmmer	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.xalancbmk	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.xalancbmk: `-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.hmmer: `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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