SPEC® CINT2006 Result

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Dell Inc.

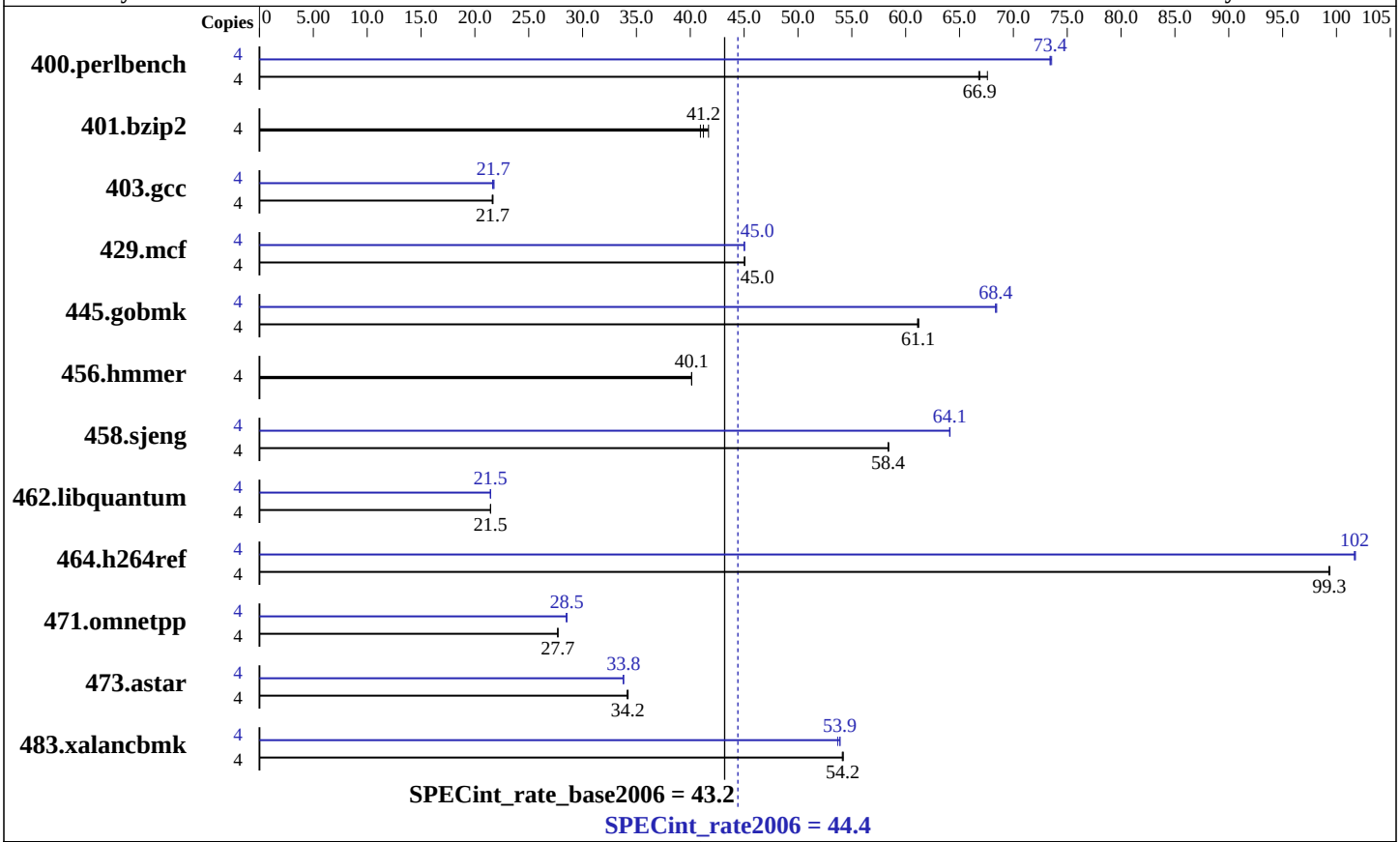
PowerEdge 860 (Intel Xeon X3220, 2.40 GHz)

SPECint®_rate2006 = 44.4

SPECint_rate_base2006 = 43.2

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

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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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