SPEC® CINT2006 Result

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Dell Inc.

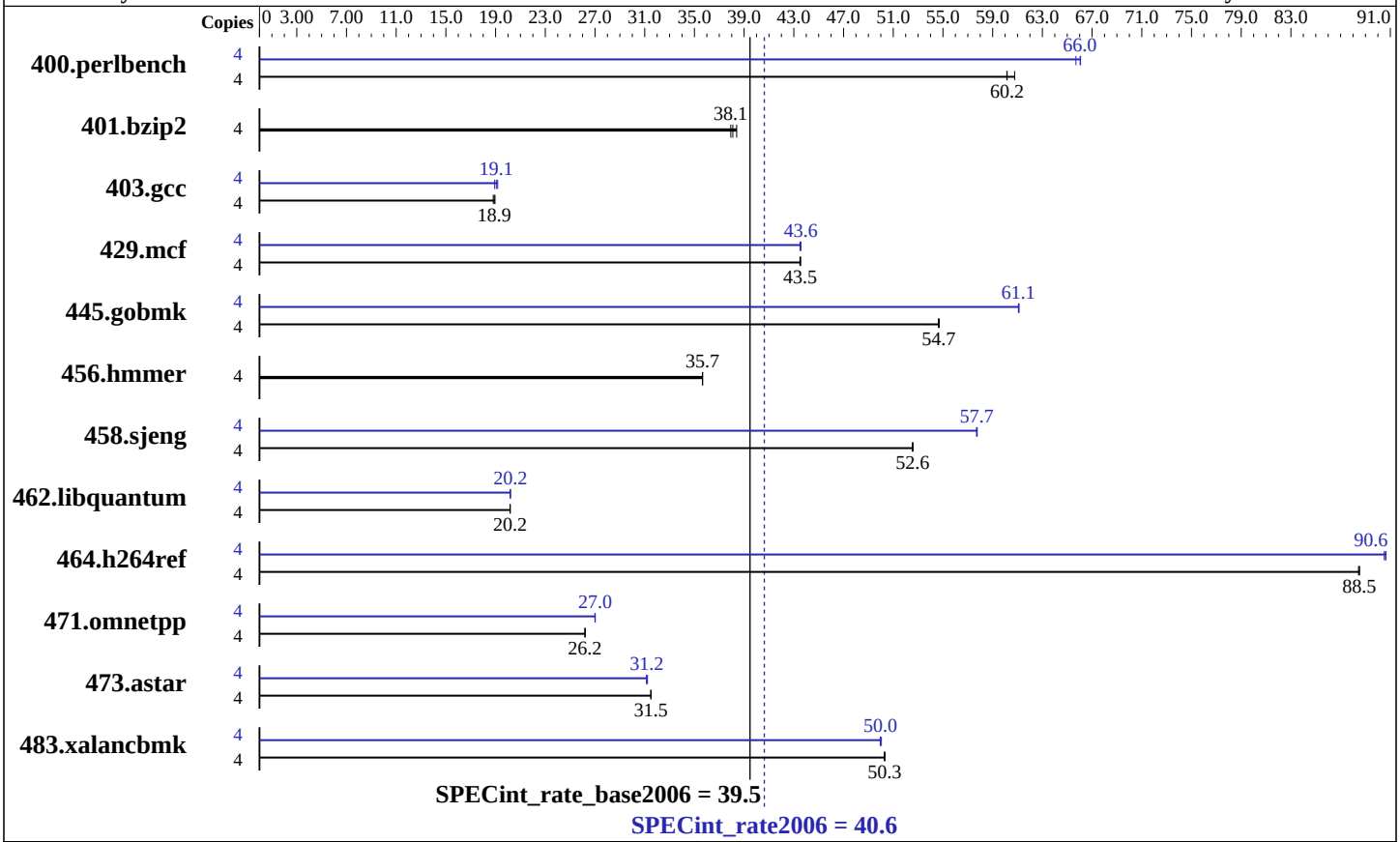
PowerEdge 860 (Intel Xeon X3210, 2.13 GHz)

SPECint®_rate2006 = 40.6

SPECint_rate_base2006 = 39.5

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	643	60.8	650	60.1	**650**	**60.2**	4	591	66.1	**592**	**66.0**	595	65.7
401.bzip2	4	**1013**	**38.1**	1005	38.4	1018	37.9	4	**1013**	**38.1**	1005	38.4	1018	37.9
403.gcc	4	1699	19.0	**1705**	**18.9**	1712	18.8	4	**1689**	**19.1**	1702	18.9	1680	19.2
429.mcf	4	**838**	**43.5**	838	43.5	839	43.5	4	839	43.5	**837**	**43.6**	837	43.6
445.gobmk	4	767	54.7	**768**	**54.7**	768	54.6	4	**687**	**61.1**	687	61.1	686	61.1
456.hmmer	4	**1047**	**35.7**	1047	35.7	1047	35.6	4	**1047**	**35.7**	1047	35.7	1047	35.6
458.sjeng	4	921	52.5	**921**	**52.6**	920	52.6	4	839	57.7	**838**	**57.7**	838	57.8
462.libquantum	4	4109	20.2	**4109**	**20.2**	4110	20.2	4	**4105**	**20.2**	4107	20.2	4104	20.2
464.h264ref	4	1000	88.5	**1000**	**88.5**	1001	88.4	4	**977**	**90.6**	976	90.7	978	90.5
471.omnetpp	4	954	26.2	**954**	**26.2**	954	26.2	4	**925**	**27.0**	926	27.0	925	27.0
473.astar	4	**891**	**31.5**	891	31.5	892	31.5	4	**901**	**31.2**	899	31.2	902	31.1
483.xalancbmk	4	**549**	**50.3**	549	50.3	548	50.3	4	**552**	**50.0**	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.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 questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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