SPEC® CINT2006 Result

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Dell Inc.

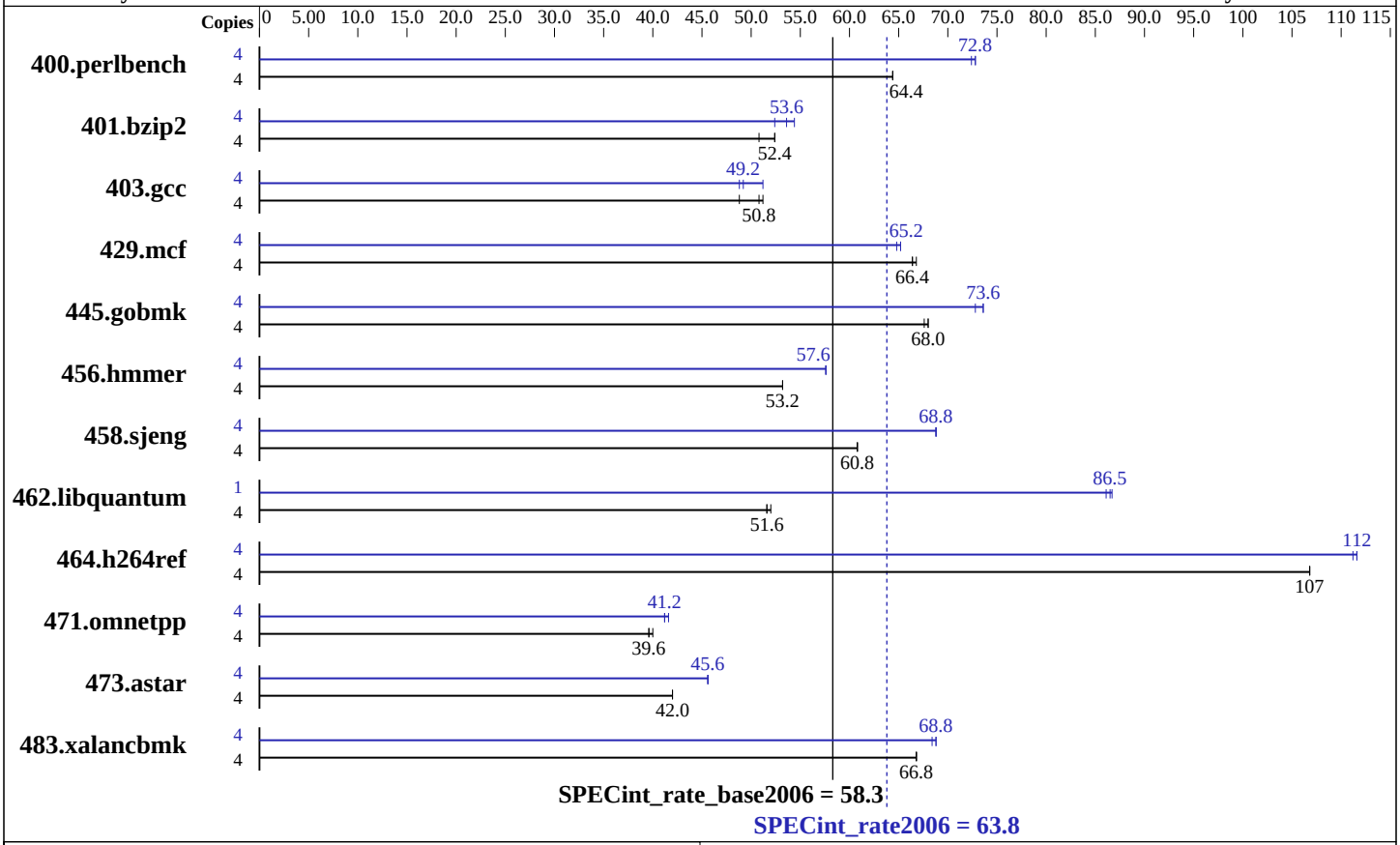
Dell Precision M6400 (Intel QX9300, 2.53 GHz)

SPECint®_rate2006 = 63.8

SPECint_rate_base2006 = 58.3

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

Test date: Sep-2008
Hardware Availability: Sep-2008
Software Availability: Mar-2008



Hardware

CPU Name:	Intel Core 2 Extreme QX9300
CPU Characteristics:	1067 MHz Bus Speed
CPU MHz:	2530
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:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4x2 GB 1067 MHz CL7 DDR3)
Disk Subsystem:	1 x 80 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Business SP1 (64bit)
Compiler:	Intel C++ Compiler for IA-32, Version 10.1 Build 20080312 Package ID: w_cc_p_10.1.021 Microsoft Visual Studio 2005 SP1
Auto Parallel:	Yes
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 8.1

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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	605	64.4	608	64.4	**608**	**64.4**	4	541	72.4	**537**	**72.8**	536	72.8
401.bzip2	4	762	50.8	**735**	**52.4**	735	52.4	4	737	52.4	**722**	**53.6**	711	54.4
403.gcc	4	658	48.8	630	51.2	**632**	**50.8**	4	631	51.2	660	48.8	**655**	**49.2**
429.mcf	4	549	66.4	**549**	**66.4**	547	66.8	4	563	64.8	**561**	**65.2**	560	65.2
445.gobmk	4	622	67.6	617	68.0	**617**	**68.0**	4	575	72.8	569	73.6	**569**	**73.6**
456.hmmer	4	704	53.2	704	53.2	**704**	**53.2**	4	649	57.6	648	57.6	**649**	**57.6**
458.sjeng	4	**794**	**60.8**	794	60.8	794	60.8	4	**704**	**68.8**	704	68.8	704	68.8
462.libquantum	4	**1601**	**51.6**	1601	51.6	1599	52.0	1	239	86.7	**239**	**86.5**	241	86.1
464.h264ref	4	830	107	827	107	**828**	**107**	4	795	111	792	112	**793**	**112**
471.omnetpp	4	**628**	**39.6**	628	40.0	628	39.6	4	604	41.2	**604**	**41.2**	604	41.6
473.astar	4	668	42.0	**668**	**42.0**	667	42.0	4	617	45.6	**617**	**45.6**	617	45.6
483.xalancbmk	4	414	66.8	**413**	**66.8**	413	66.8	4	**402**	**68.8**	402	68.8	403	68.4

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
Binaries were built on Windows Vista Ultimate (64-bit)
```

Base Compiler Invocation

C benchmarks:

```
icl -Qstd=c99
```

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 -Qvec-guard-write /F512000000
```

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 -Qstd=c99

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: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch /F512000000

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000

429.mcf: Same as 401.bzip2

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec-div- -Qansi-alias /F512000000

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Peak Optimization Flags (Continued)

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive /F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qparallel -Qpar-runtime-control /F512000000 shlw32mt.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=block -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=routine -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -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.ic10.1.windows.flags.20090713.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090713.00.xml

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