SPEC® CINT2006 Result

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Dell Inc.

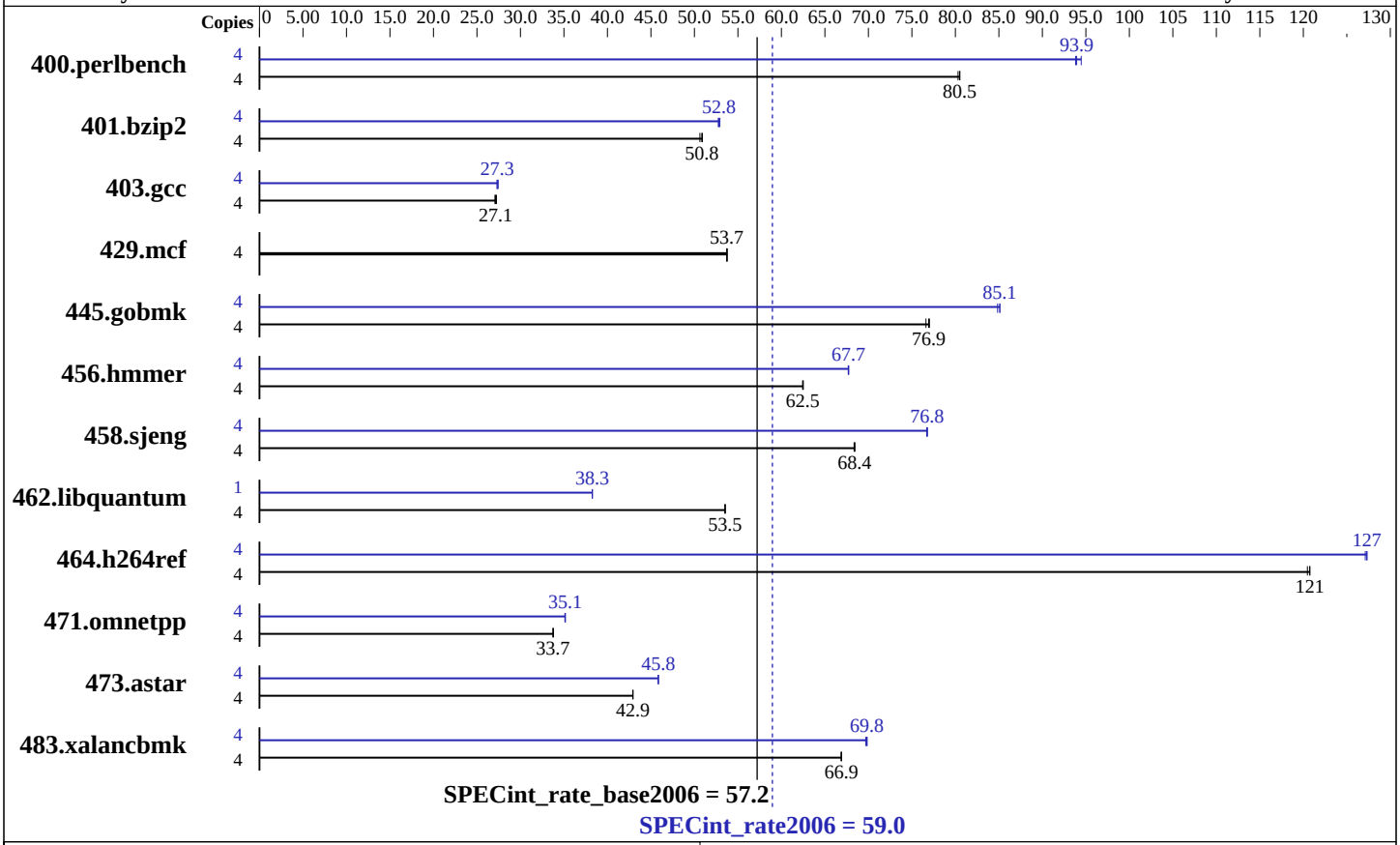
Dell Precision T3400 (Intel QX6850, 3.00 GHz)

SPECint®_rate2006 = 59.0

SPECint_rate_base2006 = 57.2

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

Test date: Dec-2007
Hardware Availability: Oct-2007
Software Availability: Nov-2007



Hardware

CPU Name:	Intel Core 2 Extreme QX6850
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3000
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 800 MHz ECC CL6 DDR2)
Disk Subsystem:	1 x 80 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional x64 Edition SP2
Compiler:	Intel C++ Compiler for IA-32, Version 10.1 Build 20070913 Package ID: w_cc_p_10.1.011 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 8.0

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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	**485**	**80.5**	485	80.5	487	80.3	4	417	93.8	414	94.5	**416**	**93.9**
401.bzip2	4	**759**	**50.8**	762	50.6	758	50.9	4	732	52.7	**731**	**52.8**	729	52.9
403.gcc	4	**1186**	**27.1**	1182	27.2	1190	27.1	4	1173	27.4	1179	27.3	**1178**	**27.3**
429.mcf	4	678	53.8	**679**	**53.7**	679	53.7	4	678	53.8	**679**	**53.7**	679	53.7
445.gobmk	4	**545**	**76.9**	548	76.6	545	77.0	4	493	85.1	**493**	**85.1**	495	84.8
456.hmmer	4	598	62.4	597	62.5	**597**	**62.5**	4	**551**	**67.7**	551	67.7	551	67.7
458.sjeng	4	708	68.4	**708**	**68.4**	707	68.4	4	630	76.8	631	76.7	**631**	**76.8**
462.libquantum	4	**1548**	**53.5**	1549	53.5	1548	53.6	1	541	38.3	**541**	**38.3**	542	38.3
464.h264ref	4	**733**	**121**	735	120	733	121	4	**695**	**127**	696	127	695	127
471.omnetpp	4	740	33.8	**741**	**33.7**	741	33.7	4	712	35.1	711	35.2	**711**	**35.1**
473.astar	4	**654**	**42.9**	654	42.9	654	42.9	4	**612**	**45.8**	612	45.9	613	45.8
483.xalancbmk	4	413	66.9	412	66.9	**413**	**66.9**	4	395	69.9	**395**	**69.8**	396	69.7

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 -Qpar-runtime-control -Qvec-guard-write /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 -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 -Qparallel -Qpar-runtime-control /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

429.mcf: basepeak = yes

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

Continued on next page

Peak Optimization Flags (Continued)

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch -Qopt-streaming-stores:always -Qpar-runtime-control /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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.20090714.01.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.20090714.01.xml

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