



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 59.0

Dell Precision T3400 (Intel QX6850, 3.00 GHz)

SPECint_rate_base2006 = 57.2

CPU2006 license: 55

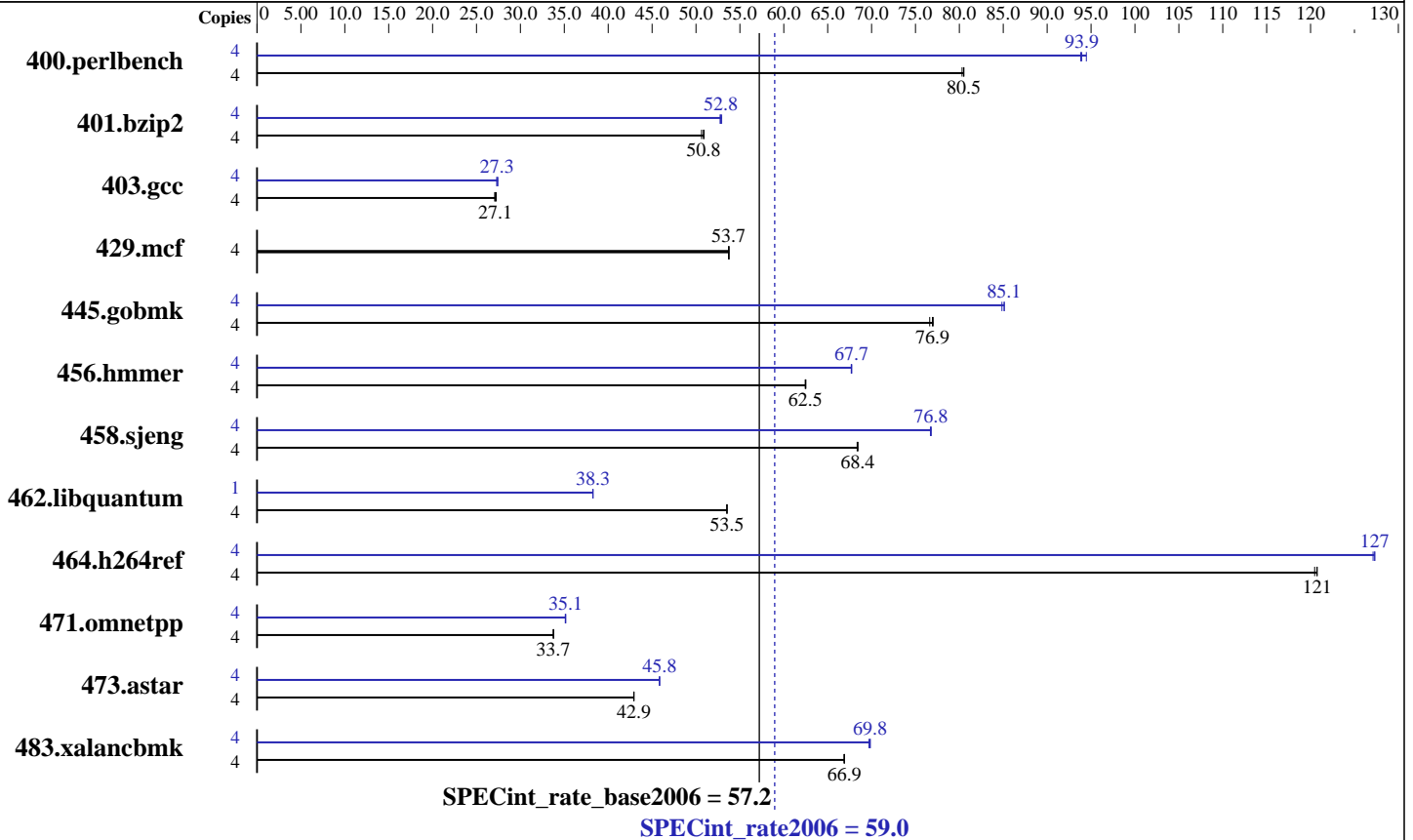
Test date: Dec-2007

Test sponsor: Dell Inc.

Hardware Availability: Oct-2007

Tested by: Dell Inc.

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.hammer	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

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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 -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
```

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Peak Optimization Flags (Continued)

456.hmmr: -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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For other inquiries, please contact webmaster@spec.org.

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