SPEC® CINT2006 Result

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Dell Inc.

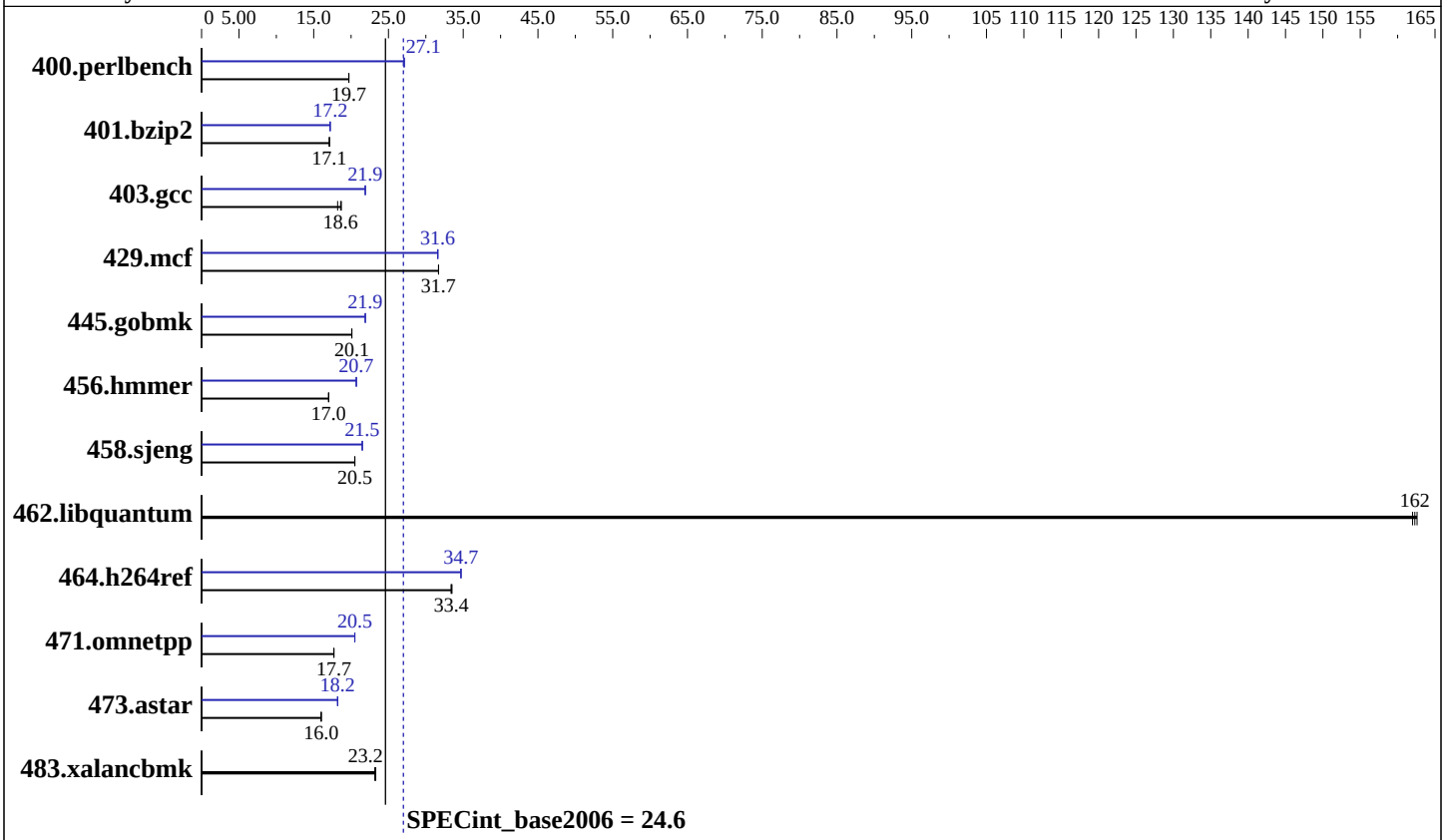
Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint®2006 = 27.0

SPECint_base2006 = 24.6

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

Test date: Nov-2008
Hardware Availability: Jun-2008
Software Availability: Nov-2008



Hardware

CPU Name:	Intel Core 2 Extreme QX9650
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:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4x2 GB DDR2-800 ECC, CL6)
Disk Subsystem:	1 x 160 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate (64-bit)
Compiler:	Intel C++ Compiler for IA-32, Version 11.0 Build 20080930 Package ID: w_cproc_p_11.0.061 Microsoft Visual Studio 2008 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	496	19.7	497	19.7	**496**	**19.7**	361	27.1	**361**	**27.1**	361	27.1
401.bzip2	564	17.1	**564**	**17.1**	564	17.1	562	17.2	563	17.2	**562**	**17.2**
403.gcc	442	18.2	431	18.7	**434**	**18.6**	368	21.9	367	21.9	**368**	**21.9**
429.mcf	288	31.7	288	31.7	**288**	**31.7**	**289**	**31.6**	289	31.6	288	31.6
445.gobmk	522	20.1	522	20.1	**522**	**20.1**	478	21.9	**478**	**21.9**	478	21.9
456.hmmer	**550**	**17.0**	549	17.0	550	17.0	451	20.7	450	20.7	**451**	**20.7**
458.sjeng	591	20.5	**591**	**20.5**	591	20.5	564	21.5	564	21.5	**564**	**21.5**
462.libquantum	**128**	**162**	127	163	128	162	**128**	**162**	127	163	128	162
464.h264ref	662	33.5	662	33.4	**662**	**33.4**	637	34.7	**637**	**34.7**	637	34.7
471.omnetpp	352	17.7	353	17.7	**353**	**17.7**	305	20.5	**305**	**20.5**	305	20.5
473.astar	438	16.0	**438**	**16.0**	438	16.0	386	18.2	**386**	**18.2**	387	18.2
483.xalancbmk	**297**	**23.2**	297	23.3	297	23.2	**297**	**23.2**	297	23.3	297	23.2

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 -Qvc9 -Qstd=c99
```

C++ benchmarks:

```
icl -Qvc9
```

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:

```
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qpar-runtime-control -Qvec-guard-write /F512000000
```

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Base Optimization Flags (Continued)

C++ benchmarks:
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx_features
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:
icl -Qvc9 -Qstd=c99

C++ benchmarks:
icl -Qvc9

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) -QxSSE4.1 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- -Qansi-alias -Qopt-prefetch /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -QxSSE4.1 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- /F512000000

429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

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Peak Optimization Flags (Continued)

445.gobmk: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
/F512000000

458.sjeng: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias
-Qopt-ra-region-strategy=block /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias
-Qopt-ra-region-strategy=routine /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes

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.ic11.0.windows.flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic11.0.windows.flags.xml

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