



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 23.3

Dell Precision M6400 (Intel QX9300, 2.53 GHz)

SPECint\_base2006 = 20.1

CPU2006 license: 55

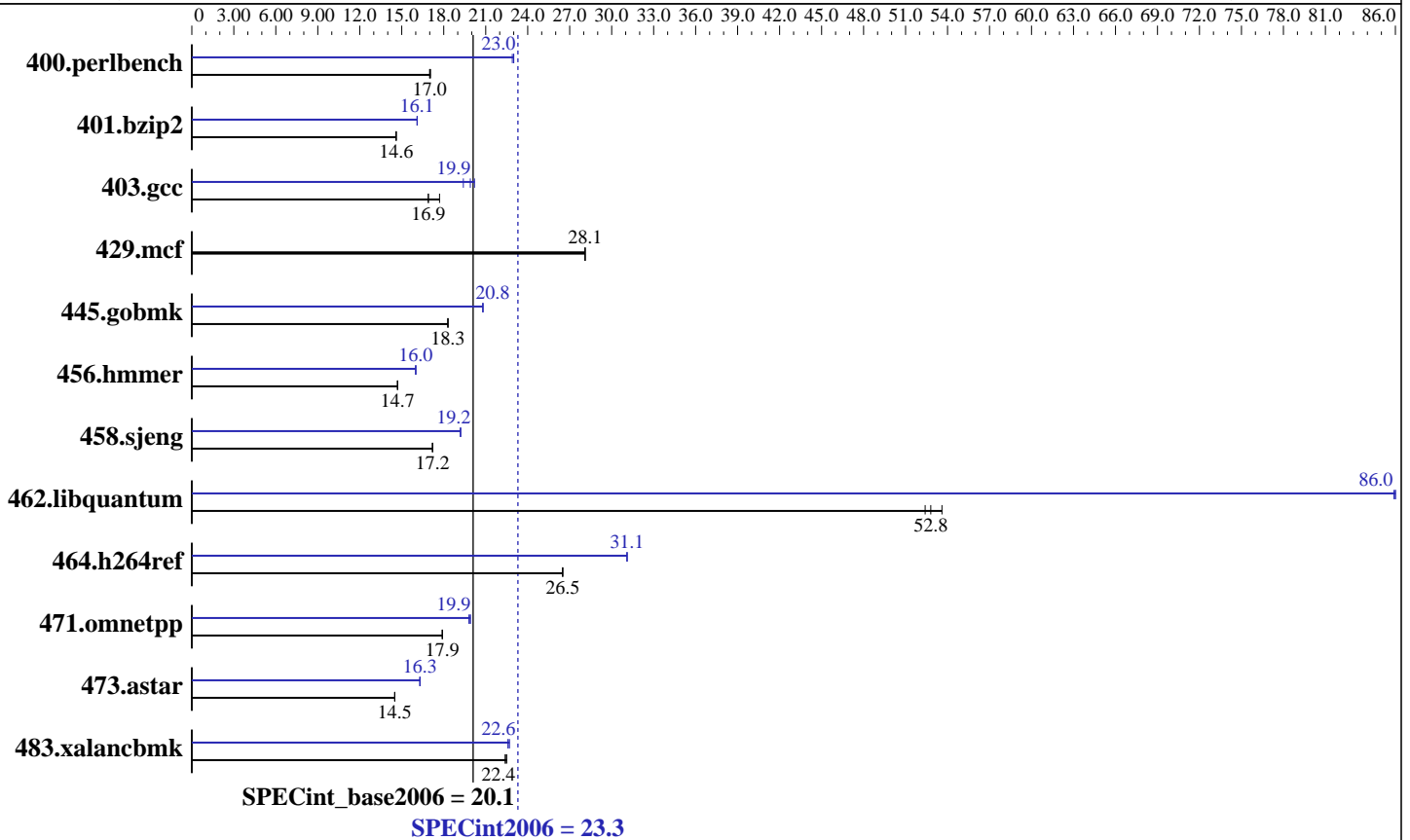
Test date: Sep-2008

Test sponsor: Dell Inc.

Hardware Availability: Sep-2008

Tested by: Dell Inc.

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	573	17.1	<b><u>573</u></b>	<b><u>17.0</u></b>	574	17.0	426	22.9	425	23.0	<b><u>425</u></b>	<b><u>23.0</u></b>
401.bzip2	<b><u>663</u></b>	<b><u>14.6</u></b>	663	14.6	663	14.6	598	16.1	598	16.1	<b><u>598</u></b>	<b><u>16.1</u></b>
403.gcc	<b><u>477</u></b>	<b><u>16.9</u></b>	454	17.7	478	16.9	<b><u>404</u></b>	<b><u>19.9</u></b>	398	20.2	414	19.4
429.mcf	325	28.1	325	28.1	<b><u>325</u></b>	<b><u>28.1</u></b>	325	28.1	325	28.1	<b><u>325</u></b>	<b><u>28.1</u></b>
445.gobmk	573	18.3	572	18.3	<b><u>573</u></b>	<b><u>18.3</u></b>	<b><u>505</u></b>	<b><u>20.8</u></b>	504	20.8	505	20.8
456.hammer	635	14.7	<b><u>635</u></b>	<b><u>14.7</u></b>	635	14.7	<b><u>585</u></b>	<b><u>16.0</u></b>	585	16.0	585	16.0
458.sjeng	<b><u>702</u></b>	<b><u>17.2</u></b>	702	17.2	702	17.2	630	19.2	630	19.2	<b><u>630</u></b>	<b><u>19.2</u></b>
462.libquantum	386	53.6	<b><u>392</u></b>	<b><u>52.8</u></b>	395	52.4	241	86.0	241	85.9	<b><u>241</u></b>	<b><u>86.0</u></b>
464.h264ref	834	26.5	<b><u>834</u></b>	<b><u>26.5</u></b>	835	26.5	712	31.1	<b><u>712</u></b>	<b><u>31.1</u></b>	712	31.1
471.omnetpp	349	17.9	349	17.9	<b><u>349</u></b>	<b><u>17.9</u></b>	315	19.9	315	19.8	<b><u>315</u></b>	<b><u>19.9</u></b>
473.astar	484	14.5	<b><u>484</u></b>	<b><u>14.5</u></b>	483	14.5	431	16.3	<b><u>431</u></b>	<b><u>16.3</u></b>	431	16.3
483.xalancbmk	307	22.5	308	22.4	<b><u>307</u></b>	<b><u>22.4</u></b>	<b><u>305</u></b>	<b><u>22.6</u></b>	305	22.6	305	22.7

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 -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000  
libguide40.lib

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## Base Optimization Flags (Continued)

C++ benchmarks:

```
-fast -Qcxx_features /F512000000 shlw32m.lib libguide40.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 libguide40.lib -link /FORCE:MULTIPLE
```

```
401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 libguide40.lib
```

```
403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
libguide40.lib
```

```
429.mcf: basepeak = yes
```

```
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.hmmcr: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias -Qopt-multi-version-aggressive /F512000000  
libguide40.lib

458.sjeng: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
/F512000000 libguide40.lib

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch  
-Qopt-streaming-stores:always -Qparallel  
-Qpar-runtime-control /F512000000 libguide40.lib

464.h264ref: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias /F512000000 libguide40.lib

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 libguide40.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 libguide40.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qcxx\_features /F512000000 shlw32m.lib libguide40.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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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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