



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 23.6

Dell Precision T3400 (Intel QX9650, 3.00 GHz)

SPECint\_base2006 = 20.8

CPU2006 license: 55

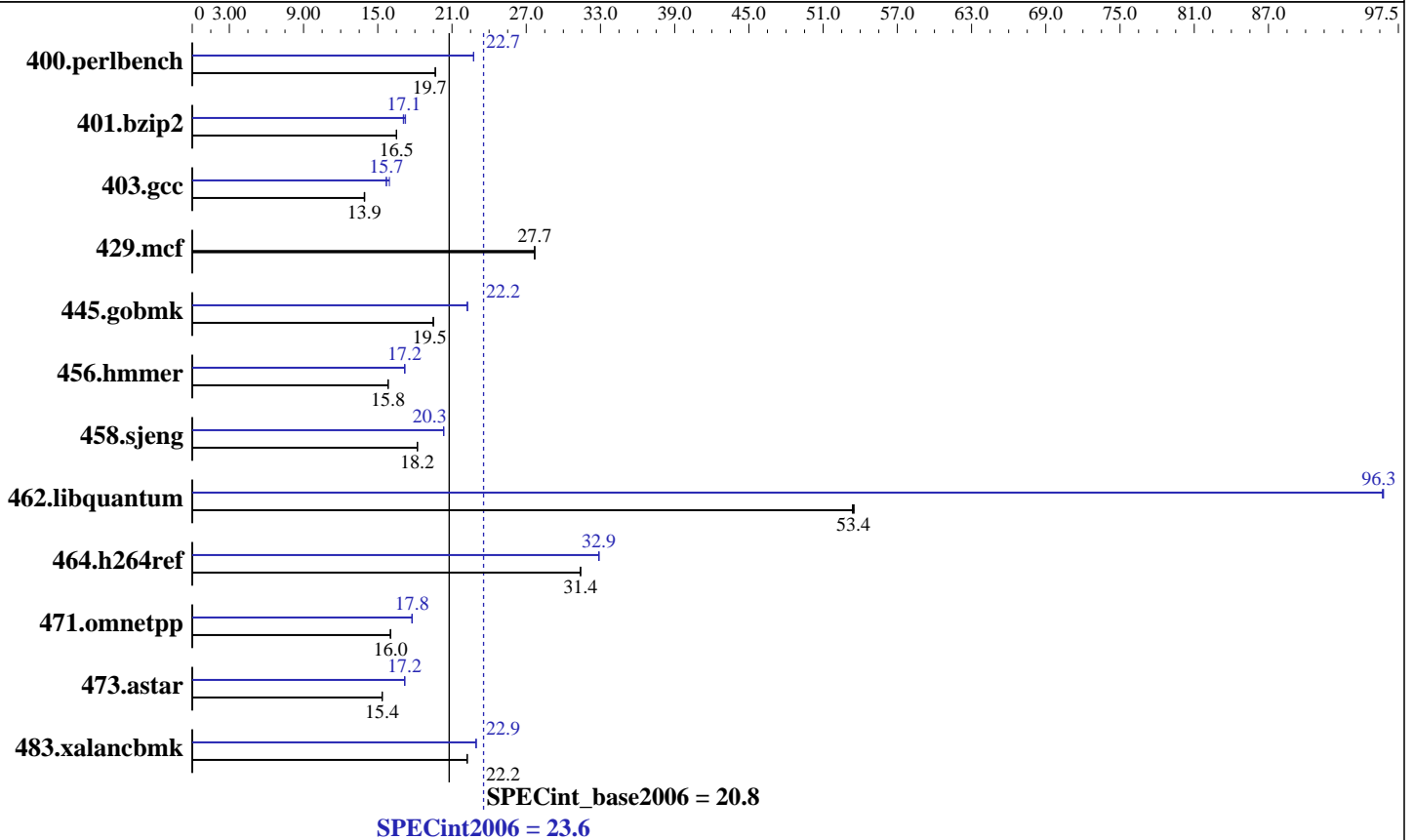
Test date: Dec-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2008

Tested by: Dell Inc.

Software Availability: Nov-2007



## 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 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 8.1



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	497	19.7	497	19.6	<u>497</u>	<u>19.7</u>	429	22.8	430	22.7	<u>430</u>	<u>22.7</u>
401.bzip2	<u>584</u>	<u>16.5</u>	584	16.5	584	16.5	560	17.2	566	17.1	<u>564</u>	<u>17.1</u>
403.gcc	<u>579</u>	<u>13.9</u>	577	13.9	579	13.9	505	15.9	513	15.7	<u>513</u>	<u>15.7</u>
429.mcf	329	27.7	<u>330</u>	<u>27.7</u>	330	27.7	329	27.7	<u>330</u>	<u>27.7</u>	330	27.7
445.gobmk	538	19.5	<u>538</u>	<u>19.5</u>	538	19.5	<u>472</u>	<u>22.2</u>	472	22.2	472	22.2
456.hammer	<u>589</u>	<u>15.8</u>	589	15.8	589	15.8	543	17.2	543	17.2	<u>543</u>	<u>17.2</u>
458.sjeng	<u>665</u>	<u>18.2</u>	665	18.2	665	18.2	<u>595</u>	<u>20.3</u>	595	20.3	595	20.3
462.libquantum	387	53.5	388	53.4	<u>388</u>	<u>53.4</u>	215	96.3	<u>215</u>	<u>96.3</u>	215	96.2
464.h264ref	705	31.4	705	31.4	<u>705</u>	<u>31.4</u>	673	32.9	<u>673</u>	<u>32.9</u>	673	32.9
471.omnetpp	<u>390</u>	<u>16.0</u>	390	16.0	390	16.0	351	17.8	<u>352</u>	<u>17.8</u>	352	17.8
473.astar	<u>457</u>	<u>15.4</u>	457	15.3	457	15.4	409	17.2	<u>409</u>	<u>17.2</u>	409	17.2
483.xalancbmk	310	22.2	<u>310</u>	<u>22.2</u>	311	22.2	301	23.0	301	22.9	<u>301</u>	<u>22.9</u>

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)

## Compiler Invocation

C benchmarks:  
icl -Qstd=c99  
  
C++ benchmarks:  
icl

## 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  
shlw32mt.lib libguide40.lib -link /FORCE:MULTIPLE

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## Base Optimization Flags (Continued)

C++ benchmarks:

```
-fast -Qcxx_features /F512000000 shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

## Peak Optimization Flags

C benchmarks:

```
400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch -Qparallel -Qpar-runtime-control /F512000000
shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32mt.lib libguide40.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
```

```
456.hmmcr: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias -Qopt-multi-version-aggressive /F512000000
shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll14
/F512000000 shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

```
462.libquantum: -fast -Qunroll14 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000 shlw32mt.lib
libguide40.lib -link /FORCE:MULTIPLE
```

```
464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12
-Qansi-alias /F512000000 shlw32mt.lib libguide40.lib
-link /FORCE:MULTIPLE
```

C++ benchmarks:

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## Peak Optimization Flags (Continued)

```
471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
             -Qopt-ra-region-strategy=block -Qcxx_features /F512000000
             shlw32mt.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
           shlw32mt.lib libguide40.lib
           -link /FORCE:MULTIPLE
```

```
483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
              -Qcxx_features /F512000000 shlw32mt.lib libguide40.lib
              -link /FORCE:MULTIPLE
```

## 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](mailto:webmaster@spec.org).

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