



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 21.8

Dell Precision T3400 (Intel QX6850, 3.00 GHz)

SPECint\_base2006 = 20.0

CPU2006 license: 55

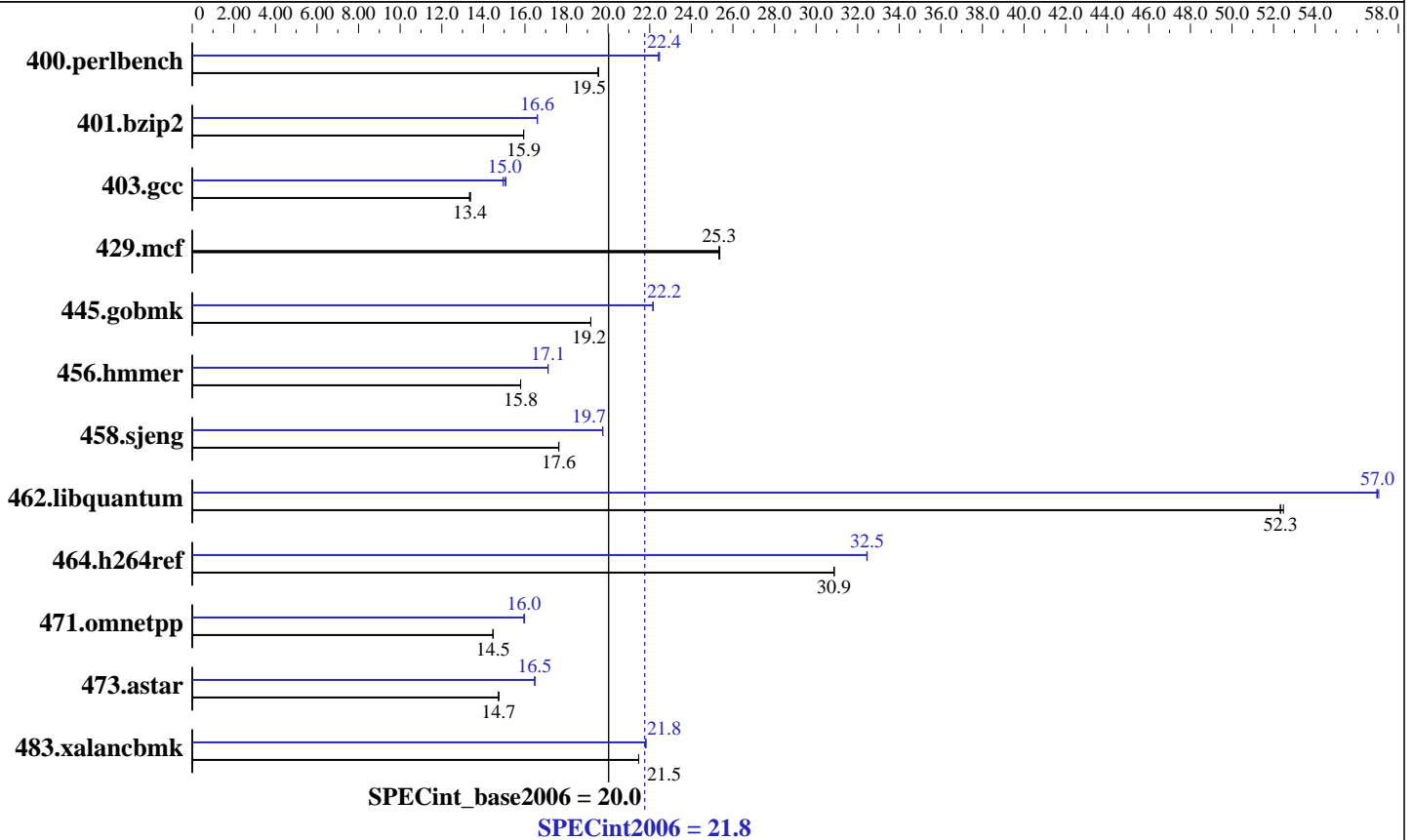
Test date: Dec-2007

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	501	19.5	500	19.5	<b>500</b>	<b>19.5</b>	<b>436</b>	<b>22.4</b>	436	22.4	435	22.5
401.bzip2	<b>606</b>	<b>15.9</b>	606	15.9	606	15.9	<b>582</b>	<b>16.6</b>	582	16.6	581	16.6
403.gcc	602	13.4	<b>603</b>	<b>13.4</b>	604	13.3	534	15.1	<b>536</b>	<b>15.0</b>	539	14.9
429.mcf	<b>360</b>	<b>25.3</b>	359	25.4	360	25.3	<b>360</b>	<b>25.3</b>	359	25.4	360	25.3
445.gobmk	<b>547</b>	<b>19.2</b>	547	19.2	547	19.2	474	22.2	473	22.2	<b>473</b>	<b>22.2</b>
456.hammer	591	15.8	<b>591</b>	<b>15.8</b>	591	15.8	545	17.1	<b>545</b>	<b>17.1</b>	545	17.1
458.sjeng	686	17.6	<b>687</b>	<b>17.6</b>	687	17.6	613	19.7	<b>613</b>	<b>19.7</b>	613	19.7
462.libquantum	395	52.5	396	52.3	<b>396</b>	<b>52.3</b>	<b>364</b>	<b>57.0</b>	363	57.1	364	57.0
464.h264ref	717	30.9	<b>717</b>	<b>30.9</b>	717	30.9	682	32.5	<b>682</b>	<b>32.5</b>	682	32.4
471.omnetpp	<b>432</b>	<b>14.5</b>	432	14.5	432	14.5	392	15.9	391	16.0	<b>392</b>	<b>16.0</b>
473.astar	476	14.7	476	14.7	<b>476</b>	<b>14.7</b>	426	16.5	426	16.5	<b>426</b>	<b>16.5</b>
483.xalancbmk	321	21.5	<b>321</b>	<b>21.5</b>	321	21.5	<b>316</b>	<b>21.8</b>	316	21.8	316	21.8

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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