



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 20.0

Dell Precision 690 (Intel Xeon X5365, 3.00 GHz)

SPECint\_base2006 = 18.1

CPU2006 license: 55

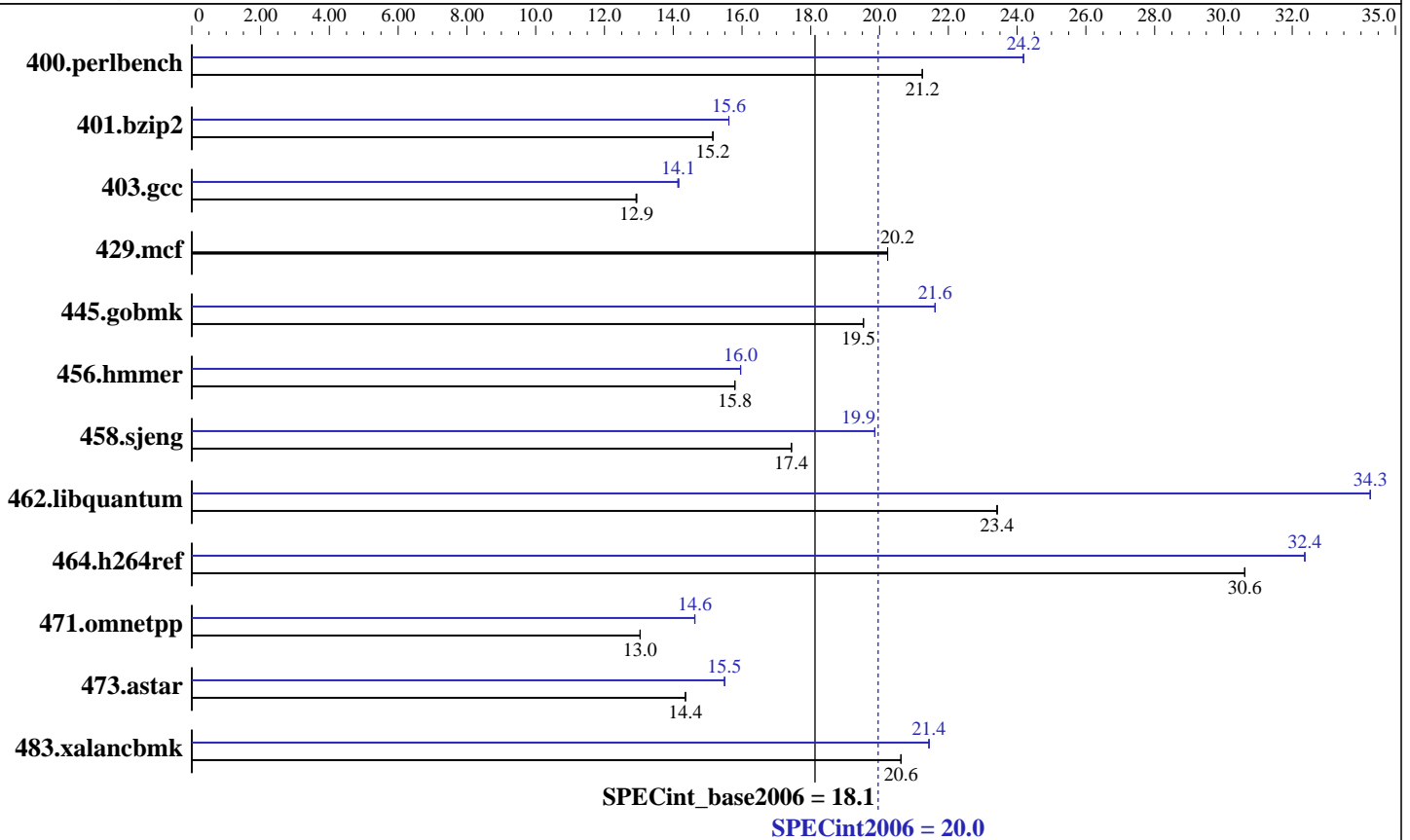
Test date: Jul-2007

Test sponsor: Dell Inc.

Hardware Availability: Aug-2007

Tested by: Dell Inc.

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon X5365  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 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: 16 GB (8x2 GB 667 MHz ECC CL5 FB-DIMM)  
 Disk Subsystem: 1 x 73GB SAS 10K RPM  
 Other Hardware: None

### Software

Operating System: Windows XP Professional x64 Edition SP2  
 Compiler: Intel C++ Compiler for IA-32, Version 10.0  
 Build 20070426 Package ID: W\_CC\_P\_10.0.025  
 Microsoft Visual Studio 2005 SP1  
 Auto Parallel: No  
 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	460	21.3	<b>460</b>	<b>21.2</b>	460	21.2	<b>404</b>	<b>24.2</b>	404	24.2	404	24.2
401.bzip2	<b>637</b>	<b>15.2</b>	637	15.2	637	15.1	<b>618</b>	<b>15.6</b>	618	15.6	618	15.6
403.gcc	623	12.9	622	12.9	<b>623</b>	<b>12.9</b>	<b>569</b>	<b>14.1</b>	570	14.1	568	14.2
429.mcf	451	20.2	451	20.2	<b>451</b>	<b>20.2</b>	451	20.2	451	20.2	<b>451</b>	<b>20.2</b>
445.gobmk	537	19.5	<b>537</b>	<b>19.5</b>	537	19.5	485	21.6	485	21.6	<b>485</b>	<b>21.6</b>
456.hammer	591	15.8	<b>591</b>	<b>15.8</b>	591	15.8	585	16.0	585	16.0	<b>585</b>	<b>16.0</b>
458.sjeng	694	17.4	694	17.4	<b>694</b>	<b>17.4</b>	<b>609</b>	<b>19.9</b>	609	19.9	609	19.9
462.libquantum	885	23.4	885	23.4	<b>885</b>	<b>23.4</b>	<b>605</b>	<b>34.3</b>	605	34.3	605	34.3
464.h264ref	723	30.6	<b>723</b>	<b>30.6</b>	723	30.6	684	32.4	<b>684</b>	<b>32.4</b>	684	32.4
471.omnetpp	479	13.0	<b>479</b>	<b>13.0</b>	479	13.0	427	14.6	427	14.6	<b>427</b>	<b>14.6</b>
473.astar	489	14.4	<b>489</b>	<b>14.4</b>	489	14.4	453	15.5	453	15.5	<b>453</b>	<b>15.5</b>
483.xalancbmk	<b>335</b>	<b>20.6</b>	335	20.6	335	20.6	322	21.4	<b>322</b>	<b>21.4</b>	322	21.4

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)

### BIOS Settings

Snoop Filter : OFF  
Adjacent Cache Line Prefetch : OFF  
Hardware Prefetcher : ON

### Snoop Filter

Preserves cache coherency while minimizing snoops to remote nodes.

### Adjacent Cache Line Prefetch

Prefetch data in order to shorten execution cycles and maximize data processing efficiency.

## Compiler Invocation

C benchmarks:  
icl -Qstd=c99

C++ benchmarks:  
icl



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## Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

## Base Optimization Flags

C benchmarks:

-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx\_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

## Peak Optimization Flags

C benchmarks:

400.perlbench: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
-Qansi-alias -Qprefetch /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

401.bzip2: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

403.gcc: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
/F512000000 -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.hmmer: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
-Qunroll12 -Qansi-alias /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

458.sjeng: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
-Qunroll14 /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

462.libquantum: ONESTEP -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast  
-Qunroll14 -Ob0 -Qprefetch -Qopt-streaming-stores:always  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

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## Peak Optimization Flags (Continued)

C++ benchmarks:

```
ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.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.windows.flags.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/dell.ic10.windows.flags.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.

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