



# SPEC® CINT2006 Result

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## Dell Inc.

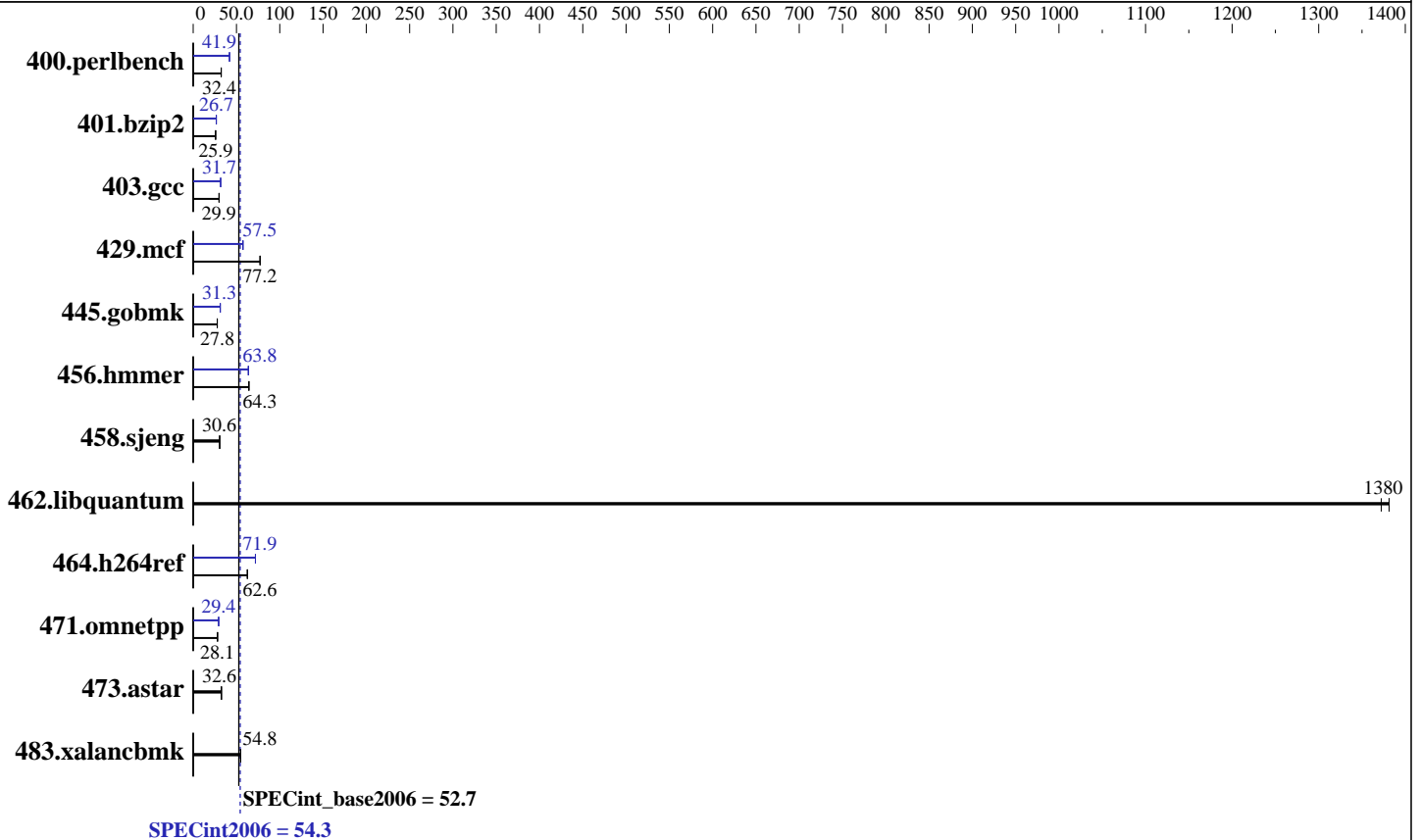
Dell Precision T3610 (Intel Xeon E5-1650 v2, 3.50 GHz)

SPECint®2006 = 54.3

SPECint\_base2006 = 52.7

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

Test date: Nov-2013  
Hardware Availability: Sep-2013  
Software Availability: Aug-2011



### Hardware

CPU Name: Intel Xeon E5-1650 v2  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.90 GHz  
 CPU MHz: 3500  
 FPU: Integrated  
 CPU(s) enabled: 6 cores, 1 chip, 6 cores/chip, 2 threads/core  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 256 KB I+D on chip per core  
 L3 Cache: 12 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 32 GB (8 x 4 GB 1Rx8 PC3-14900R-13, ECC)  
 Disk Subsystem: 1 x 500 GB SATA III 7200 RPM  
 Other Hardware: None

### Software

Operating System: Windows 7 Professional (64-bit) SP1  
 Compiler: C/C++: Version 12.1.0.233 of Intel C++ Studio XE for Windows  
 C/C++: Version 2010 of Microsoft Visual Studio  
 Auto Parallel: Yes  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32/64-bit  
 Peak Pointers: 32/64-bit  
 Other Software: MicroQuill SmartHeap Library 10.0



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	302	32.4	303	32.3	<b><u>302</u></b>	<b><u>32.4</u></b>	233	41.9	233	42.0	<b><u>233</u></b>	<b><u>41.9</u></b>
401.bzip2	372	25.9	<b><u>372</u></b>	<b><u>25.9</u></b>	372	25.9	362	26.7	<b><u>361</u></b>	<b><u>26.7</u></b>	361	26.7
403.gcc	<b><u>269</u></b>	<b><u>29.9</u></b>	269	29.9	269	29.9	254	31.7	254	31.7	<b><u>254</u></b>	<b><u>31.7</u></b>
429.mcf	118	77.2	<b><u>118</u></b>	<b><u>77.2</u></b>	118	77.4	159	57.5	159	57.4	<b><u>159</u></b>	<b><u>57.5</u></b>
445.gobmk	377	27.8	<b><u>377</u></b>	<b><u>27.8</u></b>	377	27.8	336	31.3	336	31.2	<b><u>336</u></b>	<b><u>31.3</u></b>
456.hmmer	145	64.2	145	64.5	<b><u>145</u></b>	<b><u>64.3</u></b>	146	63.9	<b><u>146</u></b>	<b><u>63.8</u></b>	147	63.6
458.sjeng	396	30.6	<b><u>396</u></b>	<b><u>30.6</u></b>	396	30.6	396	30.6	<b><u>396</u></b>	<b><u>30.6</u></b>	396	30.6
462.libquantum	15.0	1380	15.1	1370	<b><u>15.0</u></b>	<b><u>1380</u></b>	15.0	1380	15.1	1370	<b><u>15.0</u></b>	<b><u>1380</u></b>
464.h264ref	353	62.7	354	62.5	<b><u>353</u></b>	<b><u>62.6</u></b>	308	71.9	308	71.9	<b><u>308</u></b>	<b><u>71.9</u></b>
471.omnetpp	223	28.1	<b><u>223</u></b>	<b><u>28.1</u></b>	222	28.1	<b><u>213</u></b>	<b><u>29.4</u></b>	213	29.4	213	29.4
473.astar	215	32.6	215	32.6	<b><u>215</u></b>	<b><u>32.6</u></b>	215	32.6	215	32.6	<b><u>215</u></b>	<b><u>32.6</u></b>
483.xalancbmk	126	54.8	126	54.7	<b><u>126</u></b>	<b><u>54.8</u></b>	126	54.8	126	54.7	<b><u>126</u></b>	<b><u>54.8</u></b>

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Operating System Notes

OMP\_NUM\_THREADS=6 (number of cores)  
Set power configuration to High Performance and disabled monitor blanking and sleep timer  
KMP\_AFFINITY=granularity=fine,scatter

## Platform Notes

Sysinfo program c:\cpu2006.v1.2/Docs/sysinfo  
\$Rev: 6775 \$ \$Date:: 2011-08-16 # \$ \8787f7622badcf24e01c368b1db4377c  
running on T3610-GLDN-PC Tue Nov 19 14:52:42 2013

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:  
<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

```
Trying 'systeminfo'
OS Name       : Microsoft Windows 7 Professional
OS Version    : 6.1.7601 Service Pack 1 Build 7601
System Manufacturer: Dell Inc.
System Model   : Precision T3610
Processor(s)  : 1 Processor(s) Installed.
               [01]: Intel64 Family 6 Model 62 Stepping 4 GenuineIntel ~3501 Mhz
BIOS Version  : Dell Inc. A03, 9/5/2013
Total Physical Memory: 32,712 MB
```

```
Trying 'wmic cpu get /value'
DeviceID      : CPU0
L2CacheSize   : 1536
```

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## Platform Notes (Continued)

L3CacheSize : 12288  
MaxClockSpeed : 3501  
Name : Intel(R) Xeon(R) CPU E5-1650 v2 @ 3.50GHz  
NumberOfCores : 6  
NumberOfLogicalProcessors: 12

(End of data from sysinfo program)

## General Notes

Binaries were compiled on a Precision T1600 system with a single Xeon E3-1200 CPU and 16GB memory using Windows 7 Professional 64-bit

## Base Compiler Invocation

C benchmarks:

icl -Qvc10 -Qstd=c99

C++ benchmarks:

icl -Qvc10

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_NO\_NEED\_VA\_COPY  
-DSPEC\_CPU\_WIN64\_X64  
401.bzip2: -DSPEC\_CPU\_P64  
403.gcc: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WIN64  
429.mcf: -DSPEC\_CPU\_P64  
445.gobmk: -DSPEC\_CPU\_P64  
456.hmmer: -DSPEC\_CPU\_P64  
458.sjeng: -DSPEC\_CPU\_P64  
462.libquantum: -DSPEC\_CPU\_P64  
464.h264ref: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_NO\_INTTYPES -DWIN32  
471.omnetpp: -DSPEC\_CPU\_P64 -DSPEC\_CPU\_WIN64  
473.astar: -DSPEC\_CPU\_P64  
483.xalancbmk: -DSPEC\_CPU\_P64 -Qoption,cpp,--no\_wchar\_t\_keyword

## Base Optimization Flags

C benchmarks:

-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel -Qauto-ilp32  
/F512000000

C++ benchmarks:

-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features  
-Qauto-ilp32 /F512000000 shlw64m.lib -link /FORCE:MULTIPLE



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## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks:

icl -Qvc10 -Qstd=c99

C++ benchmarks:

icl -Qvc10

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof\_gen(pass 1) -QxAVX -Qprof\_use(pass 2) -Qipo -O3  
-Qprec-div- -Qansi-alias -Qopt-prefetch -Qauto-ilp32  
/F512000000 shlw64m.lib -link /FORCE:MULTIPLE

401.bzp2: -Qprof\_gen(pass 1) -QxAVX(pass 2) -Qprof\_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qopt-prefetch -Qansi-alias -Qauto-ilp32  
/F512000000

403.gcc: -Qprof\_gen(pass 1) -QxAVX(pass 2) -Qprof\_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qauto-ilp32 /F512000000

429.mcf: -QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32  
/F512000000

445.gobmk: -Qprof\_gen(pass 1) -QxAVX(pass 2) -Qprof\_use(pass 2) -Qipo  
-O2 -Qprec-div- -Qansi-alias -Qauto-ilp32 /F512000000

456.hmmer: -QxAVX -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qauto-ilp32 /F512000000

458.sjeng: basepeak = yes

462.libquantum: basepeak = yes

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## Peak Optimization Flags (Continued)

464.h264ref: -Qprof\_gen(pass 1) -QxAVX(pass 2) -Qprof\_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qunroll2 -Qansi-alias -Qauto-ilp32  
/F512000000

C++ benchmarks:

471.omnetpp: -Qprof\_gen(pass 1) -QxAVX(pass 2) -Qprof\_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qansi-alias  
-Qopt-ra-region-strategy=block -Qauto-ilp32 /F512000000  
shlw64m.lib -link /FORCE:MULTIPLE

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes

## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Dell-ic12.1-Windows.html>

<http://www.spec.org/cpu2006/flags/Dell-platform-Precision.20131217.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Dell-ic12.1-Windows.xml>

<http://www.spec.org/cpu2006/flags/Dell-platform-Precision.20131217.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).

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