



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 28.5

Dell Precision T3400 (Intel E8600, 3.33 GHz)

SPECint\_base2006 = 26.0

CPU2006 license: 55

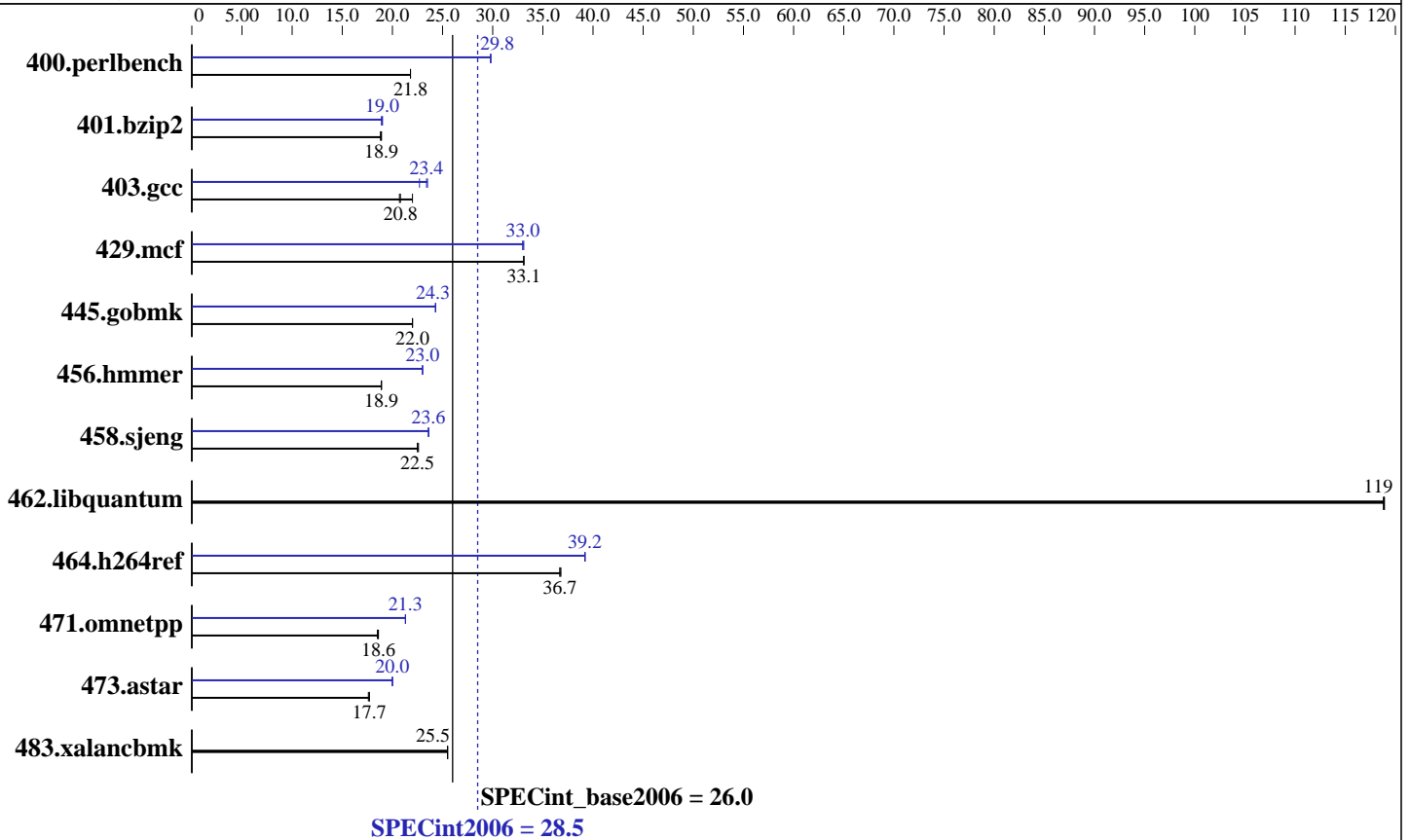
Test date: Nov-2008

Test sponsor: Dell Inc.

Hardware Availability: Jan-2009

Tested by: Dell Inc.

Software Availability: Nov-2008



## Hardware

CPU Name: Intel Core 2 Duo E8600  
 CPU Characteristics: 1333 MHz Bus Speed  
 CPU MHz: 3333  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 6 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (4x2 GB DDR2-800, ECC, CL6)  
 Disk Subsystem: 1 x 160 GB SATA 7200 RPM  
 Other Hardware: None

## Software

Operating System: Windows Vista Ultimate SP1 (64-bit)  
 Compiler: Intel C++ Compiler for IA-32, Version 11.0  
 Build 20080930 Package ID: w\_cproc\_p\_11.0.061  
 Microsoft Visual Studio 2008 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	449	21.8	<b>448</b>	<b>21.8</b>	448	21.8	328	29.8	328	29.8	<b>328</b>	<b>29.8</b>
401.bzip2	512	18.9	512	18.8	<b>512</b>	<b>18.9</b>	<b>509</b>	<b>19.0</b>	509	18.9	509	19.0
403.gcc	<b>388</b>	<b>20.8</b>	388	20.7	366	22.0	355	22.7	343	23.5	<b>343</b>	<b>23.4</b>
429.mcf	276	33.1	<b>276</b>	<b>33.1</b>	276	33.1	276	33.1	276	33.0	<b>276</b>	<b>33.0</b>
445.gobmk	<b>477</b>	<b>22.0</b>	476	22.0	477	22.0	432	24.3	<b>432</b>	<b>24.3</b>	432	24.3
456.hammer	<b>494</b>	<b>18.9</b>	494	18.9	494	18.9	<b>405</b>	<b>23.0</b>	405	23.0	405	23.0
458.sjeng	537	22.6	<b>537</b>	<b>22.5</b>	537	22.5	512	23.6	<b>512</b>	<b>23.6</b>	512	23.6
462.libquantum	174	119	174	119	<b>174</b>	<b>119</b>	174	119	174	119	<b>174</b>	<b>119</b>
464.h264ref	602	36.7	602	36.8	<b>602</b>	<b>36.7</b>	<b>564</b>	<b>39.2</b>	564	39.2	564	39.2
471.omnetpp	<b>337</b>	<b>18.6</b>	337	18.6	337	18.5	293	21.3	<b>294</b>	<b>21.3</b>	294	21.3
473.astar	398	17.7	400	17.6	<b>398</b>	<b>17.7</b>	<b>351</b>	<b>20.0</b>	352	20.0	351	20.0
483.xalancbmk	271	25.5	<b>271</b>	<b>25.5</b>	271	25.5	271	25.5	<b>271</b>	<b>25.5</b>	271	25.5

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 -Qvc9 -Qstd=c99  
C++ benchmarks:  
icl -Qvc9

## 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:  
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel  
-Qpar-runtime-control -Qvec-guard-write /F512000000

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## Base Optimization Flags (Continued)

C++ benchmarks:

-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx\_features  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks:

icl -Qvc9 -Qstd=c99

C++ benchmarks:

icl -Qvc9

## 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) -QxSSE4.1 -Qprof\_use(pass 2) -Qipo -O3  
-Qprec-div- -Qansi-alias -Qopt-prefetch /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof\_gen(pass 1) -QxSSE4.1(pass 2) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch  
/F512000000

403.gcc: -Qprof\_gen(pass 1) -QxSSE4.1 -Qprof\_use(pass 2) -Qipo -O3  
-Qprec-div- /F512000000

429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch  
/F512000000

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## Peak Optimization Flags (Continued)

445.gobmk: -Qprof\_gen(pass 1) -QxSSE4.1(pass 2) -Qprof\_use(pass 2)  
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
/F512000000

458.sjeng: -Qprof\_gen(pass 1) -QxSSE4.1(pass 2) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -Qprof\_gen(pass 1) -QxSSE4.1(pass 2) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof\_gen(pass 1) -QxSSE4.1(pass 2) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qansi-alias  
-Qopt-ra-region-strategy=block /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

473.astar: -Qprof\_gen(pass 1) -QxSSE4.1(pass 2) -Qprof\_use(pass 2)  
-Qipo -O3 -Qprec-div- -Qansi-alias  
-Qopt-ra-region-strategy=routine /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes

## 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.ic11.0.windows.flags.html>

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

<http://www.spec.org/cpu2006/flags/dell.ic11.0.windows.flags.xml>



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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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