



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 35.5

Dell Precision T7500 (Intel Xeon W5590, 3.33 GHz)

SPECint\_base2006 = 33.1

CPU2006 license: 55

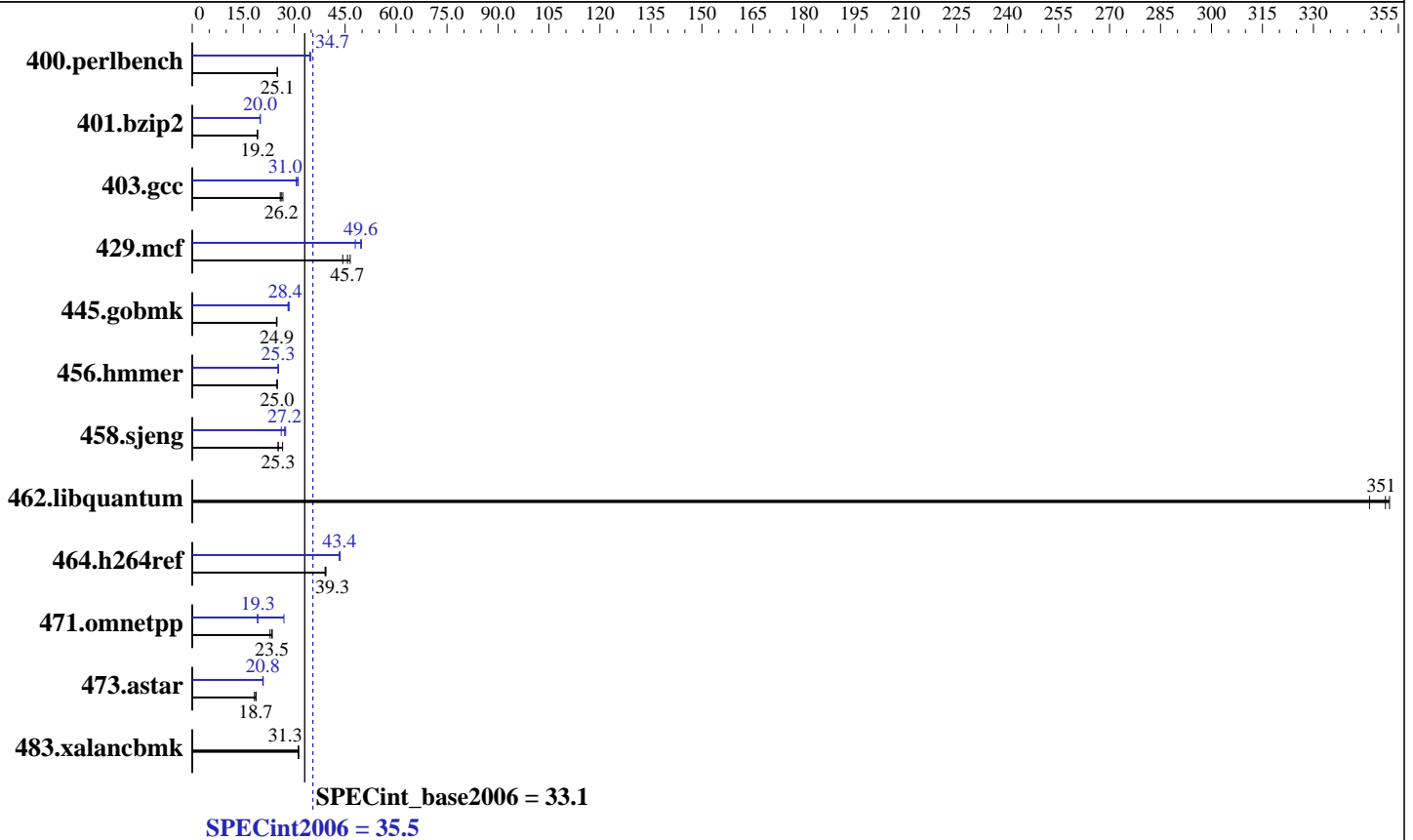
Test date: Aug-2009

Test sponsor: Dell Inc.

Hardware Availability: Aug-2009

Tested by: Dell Inc.

Software Availability: Feb-2009



### Hardware

CPU Name: Intel Xeon W5590  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz  
 CPU MHz: 3333  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 256 KB I+D on chip per core  
 L3 Cache: 8 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 48 GB (12x4 GB PC3-10600R)  
 Disk Subsystem: 1 x 146 GB SAS 15000 RPM  
 Other Hardware: None

### Software

Operating System: Windows Vista Business SP1 (64-bit)  
 Compiler: Intel C++ Compiler for IA-32, Version 11.0  
 Build 20090131 Package ID: w\_cproc\_p\_11.0.072  
 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	391	25.0	389	25.1	<b>390</b>	<b>25.1</b>	281	34.8	<b>281</b>	<b>34.7</b>	281	34.7
401.bzip2	504	19.2	<b>504</b>	<b>19.2</b>	504	19.2	<b>484</b>	<b>20.0</b>	483	20.0	484	20.0
403.gcc	302	26.7	<b>307</b>	<b>26.2</b>	311	25.9	264	30.6	258	31.2	<b>260</b>	<b>31.0</b>
429.mcf	<b>200</b>	<b>45.7</b>	206	44.3	196	46.5	183	49.8	190	48.0	<b>184</b>	<b>49.6</b>
445.gobmk	422	24.9	422	24.8	<b>422</b>	<b>24.9</b>	<b>369</b>	<b>28.4</b>	372	28.2	368	28.5
456.hammer	373	25.0	<b>373</b>	<b>25.0</b>	373	25.0	<b>369</b>	<b>25.3</b>	369	25.3	369	25.3
458.sjeng	479	25.3	455	26.6	<b>478</b>	<b>25.3</b>	<b>445</b>	<b>27.2</b>	462	26.2	440	27.5
462.libquantum	<b>59.0</b>	<b>351</b>	58.8	352	59.8	347	<b>59.0</b>	<b>351</b>	58.8	352	59.8	347
464.h264ref	<b>563</b>	<b>39.3</b>	566	39.1	563	39.3	509	43.5	511	43.3	<b>510</b>	<b>43.4</b>
471.omnetpp	273	22.9	265	23.5	<b>266</b>	<b>23.5</b>	<b>323</b>	<b>19.3</b>	231	27.0	325	19.2
473.astar	383	18.3	374	18.8	<b>375</b>	<b>18.7</b>	336	20.9	338	20.8	<b>337</b>	<b>20.8</b>
483.xalancbmk	221	31.3	221	31.2	<b>221</b>	<b>31.3</b>	221	31.3	221	31.2	<b>221</b>	<b>31.3</b>

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

## Platform Notes

BIOS Settings  
Memory Node Interleaving: NUMA

## 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:  
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel  
-Qpar-runtime-control -Qvec-guard-write /F512000000

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## Base Optimization Flags (Continued)

C++ benchmarks:

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

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

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

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch  
/F512000000

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## Peak Optimization Flags (Continued)

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

456.hmmer: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
/F512000000

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

462.libquantum: basepeak = yes

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

C++ benchmarks:

471.omnetpp: -Qprof\_gen(pass 1) -QxSSE4.2(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) -QxSSE4.2(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.flags.ic11.0.win.html>

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

<http://www.spec.org/cpu2006/flags/dell.flags.ic11.0.win.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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