



# SPEC® CINT2006 Result

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Dell Inc.

SPECint®2006 = 28.3

Dell Precision T7400 (Intel Xeon X5492, 3.40 GHz)

SPECint\_base2006 = 26.0

CPU2006 license: 55

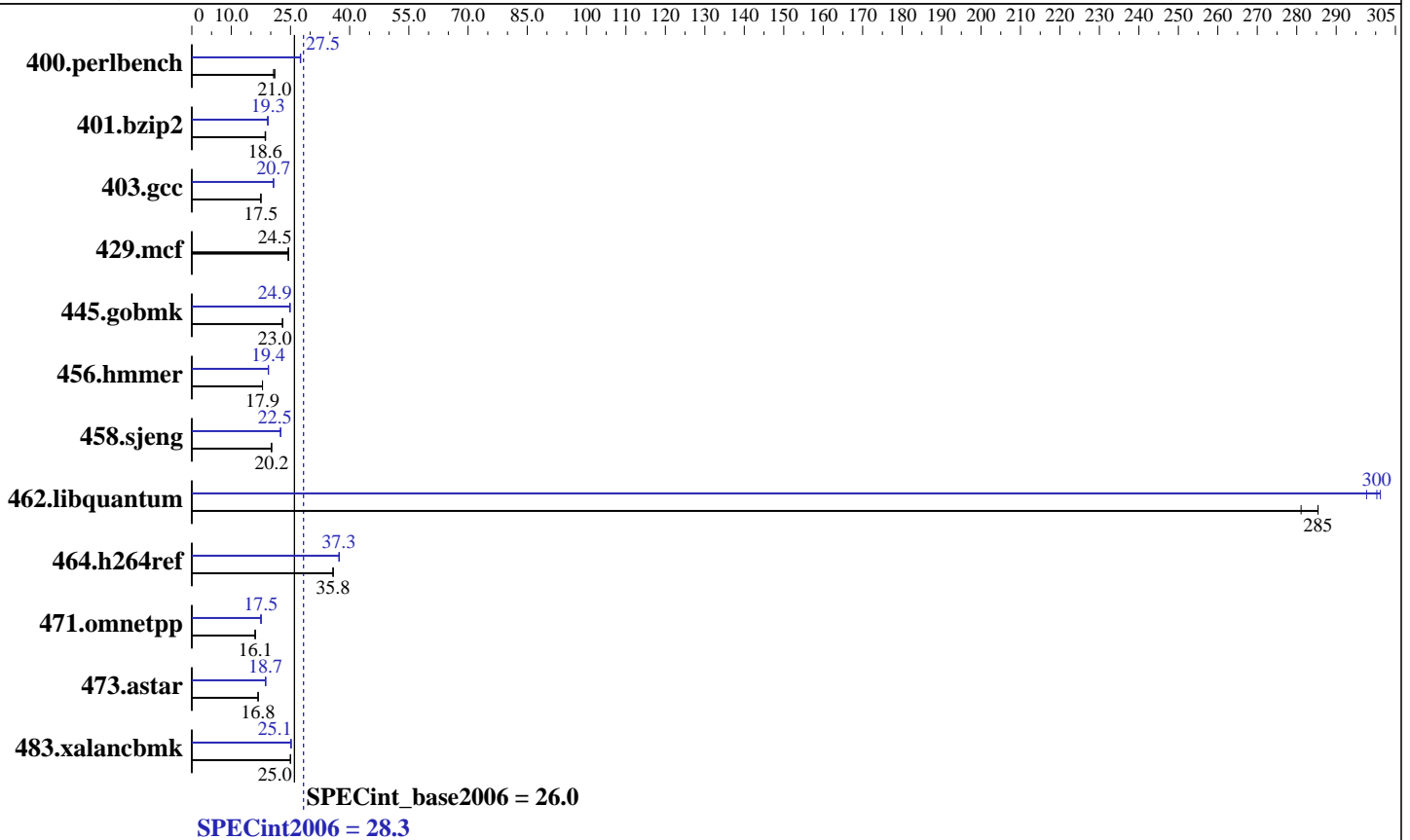
Test date: Sep-2008

Test sponsor: Dell Inc.

Hardware Availability: Sep-2008

Tested by: Dell Inc.

Software Availability: Mar-2008



## Hardware

CPU Name: Intel Xeon X5492  
 CPU Characteristics: 1600 MHz Bus Speed  
 CPU MHz: 3400  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (8x2 GB 800 MHz CL5 FB-DIMM)  
 Disk Subsystem: 1 x 80 GB SATA 7200 RPM  
 Other Hardware: None

## Software

Operating System: Windows Vista Business SP1 (64-bit)  
 Compiler: Intel C++ Compiler for IA-32, Version 10.1  
 Build 20080312 Package ID: w\_cc\_p\_10.1.021  
 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 8.1



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	471	20.7	<b>466</b>	<b>21.0</b>	466	21.0	355	27.6	355	27.5	<b>355</b>	<b>27.5</b>
401.bzip2	<b>518</b>	<b>18.6</b>	518	18.6	517	18.7	501	19.3	<b>501</b>	<b>19.3</b>	501	19.2
403.gcc	459	17.5	<b>460</b>	<b>17.5</b>	460	17.5	<b>389</b>	<b>20.7</b>	389	20.7	389	20.7
429.mcf	<b>373</b>	<b>24.5</b>	373	24.5	374	24.4	<b>373</b>	<b>24.5</b>	373	24.5	374	24.4
445.gobmk	456	23.0	<b>457</b>	<b>23.0</b>	457	23.0	422	24.8	422	24.9	<b>422</b>	<b>24.9</b>
456.hammer	<b>521</b>	<b>17.9</b>	521	17.9	521	17.9	<b>480</b>	<b>19.4</b>	480	19.4	480	19.4
458.sjeng	<b>599</b>	<b>20.2</b>	599	20.2	599	20.2	539	22.5	<b>538</b>	<b>22.5</b>	538	22.5
462.libquantum	72.6	285	<b>72.6</b>	<b>285</b>	73.7	281	68.8	301	69.6	298	<b>69.0</b>	<b>300</b>
464.h264ref	617	35.8	<b>618</b>	<b>35.8</b>	618	35.8	<b>593</b>	<b>37.3</b>	593	37.3	592	37.4
471.omnetpp	388	16.1	<b>389</b>	<b>16.1</b>	390	16.0	356	17.6	357	17.5	<b>357</b>	<b>17.5</b>
473.astar	418	16.8	<b>417</b>	<b>16.8</b>	417	16.8	375	18.7	<b>375</b>	<b>18.7</b>	375	18.7
483.xalancbmk	<b>276</b>	<b>25.0</b>	276	25.0	276	25.0	275	25.1	<b>275</b>	<b>25.1</b>	274	25.2

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  
Adjacent Cache Line Prefetch set to ON

## Base Compiler Invocation

C benchmarks:  
icl -Qstd=c99

C++ benchmarks:  
icl

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32  
483.xalancbmk: -Qoption,cpp,--no\_wchar\_t\_keyword



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## Base Optimization Flags

C benchmarks:

-fast -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000  
libguide40.lib

C++ benchmarks:

-fast -Qcxx\_features /F512000000 shlw32m.lib libguide40.lib  
-link /FORCE:MULTIPLE

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks:

icl -Qstd=c99

C++ benchmarks:

icl

## 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) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qprefetch -Qparallel -Qpar-runtime-control /F512000000  
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qprefetch  
/F512000000 libguide40.lib

403.gcc: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000  
libguide40.lib

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## Peak Optimization Flags (Continued)

429.mcf:basepeak = yes

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

456.hmmer: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias -Qopt-multi-version-aggressive /F512000000  
libguide40.lib

458.sjeng: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
/F512000000 libguide40.lib

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch  
-Qopt-streaming-stores:always -Qparallel  
-Qpar-runtime-control /F512000000 libguide40.lib

464.h264ref: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias /F512000000 libguide40.lib

C++ benchmarks:

471.omnetpp: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qopt-ra-region-strategy=block -Qcxx\_features /F512000000  
shlw32m.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  
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qcxx\_features /F512000000 shlw32m.lib libguide40.lib  
-link /FORCE:MULTIPLE

## 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.ic10.1.windows.flags.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.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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