



SPEC® CINT2006 Result

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Dell Inc.

DELL Precision T7600 (Intel Xeon E5-2687W, 3.10GHz)

SPECint®2006 = 53.7

SPECint_base2006 = 52.1

CPU2006 license: 55

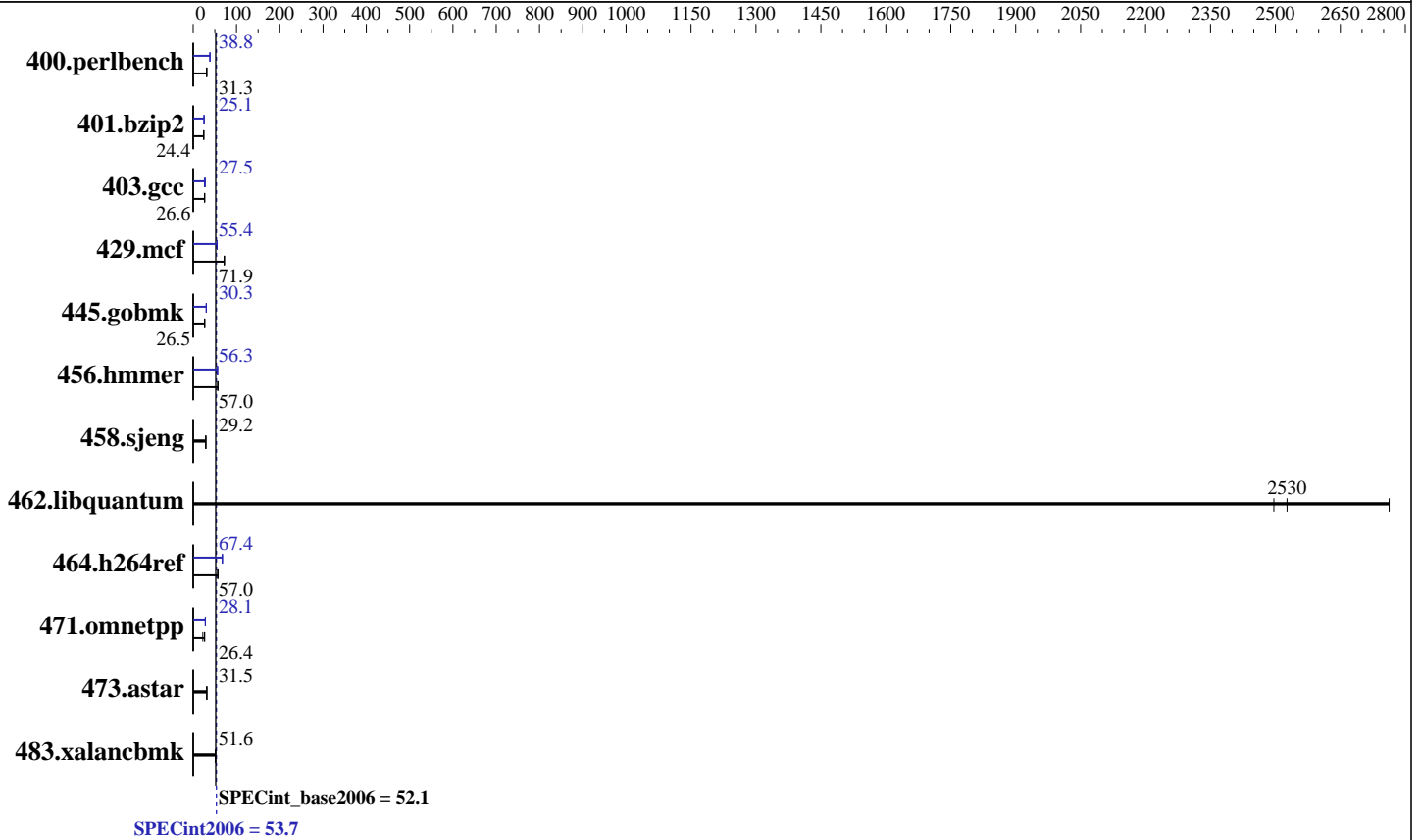
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2013

Hardware Availability: Aug-2012

Software Availability: Aug-2011



Hardware

CPU Name: Intel Xeon E5-2687W
 CPU Characteristics: Intel Turbo Boost Technology up to 3.80 GHz
 CPU MHz: 3100
 FPU: Integrated
 CPU(s) enabled: 16 cores, 2 chips, 8 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: 20 MB I+D on chip per chip
 Other Cache: None
 Memory: 64 GB (8 x 8 GB 2Rx4 PC3-12800R-9, ECC)
 Disk Subsystem: 1 x 250 GB SATAIII 7200 RPM
 Other Hardware: None

Software

Operating System: Windows 7 Professional (64-bit)
 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	312	31.3	314	31.1	<u>313</u>	<u>31.3</u>	252	38.7	252	38.8	<u>252</u>	<u>38.8</u>
401.bzip2	396	24.3	395	24.4	<u>396</u>	<u>24.4</u>	384	25.1	385	25.1	<u>384</u>	<u>25.1</u>
403.gcc	310	26.0	303	26.6	<u>303</u>	<u>26.6</u>	289	27.9	310	26.0	<u>292</u>	<u>27.5</u>
429.mcf	127	71.9	<u>127</u>	<u>71.9</u>	127	72.0	165	55.3	<u>165</u>	<u>55.4</u>	165	55.4
445.gobmk	396	26.5	<u>396</u>	<u>26.5</u>	395	26.6	<u>346</u>	<u>30.3</u>	346	30.3	347	30.2
456.hammer	164	57.0	<u>164</u>	<u>57.0</u>	164	57.0	166	56.3	<u>166</u>	<u>56.3</u>	166	56.3
458.sjeng	415	29.1	414	29.2	<u>415</u>	<u>29.2</u>	415	29.1	414	29.2	<u>415</u>	<u>29.2</u>
462.libquantum	<u>8.20</u>	<u>2530</u>	7.50	2760	8.30	2500	<u>8.20</u>	<u>2530</u>	7.50	2760	8.30	2500
464.h264ref	390	56.7	388	57.1	<u>388</u>	<u>57.0</u>	<u>328</u>	<u>67.4</u>	328	67.5	328	67.4
471.omnetpp	280	22.3	237	26.4	<u>237</u>	<u>26.4</u>	223	28.1	223	28.1	<u>223</u>	<u>28.1</u>
473.astar	223	31.5	<u>223</u>	<u>31.5</u>	223	31.4	223	31.5	<u>223</u>	<u>31.5</u>	223	31.4
483.xalancbmk	134	51.5	<u>134</u>	<u>51.6</u>	133	51.7	134	51.5	<u>134</u>	<u>51.6</u>	133	51.7

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

Operating System Notes

OMP_NUM_THREADS=16 (number of cores)
KMP_AFFINITY=granularity=fine,scatter

Platform Notes

Sysinfo program C:\cpu2006.v1.2/Docs/sysinfo
\$Rev: 6775 \$ \$Date:: 2011-08-16 #\$ \8787f7622badcf24e01c368b1db4377c
running on Spec-PC Fri Jan 18 18:33:43 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 T7600
Processor(s)  : 2 Processor(s) Installed.
               [01]: Intel64 Family 6 Model 45 Stepping 6 GenuineIntel ~2697 Mhz
               [02]: Intel64 Family 6 Model 45 Stepping 6 GenuineIntel ~2480 Mhz
BIOS Version  : Dell Inc. A05, 11/8/2012
Total Physical Memory: 65,462 MB
```

```
Trying 'wmic cpu get /value'
DeviceID      : CPU0
L2CacheSize   : 2048
```

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Platform Notes (Continued)

L3CacheSize : 4096
MaxClockSpeed : 3101
Name : Intel(R) Xeon(R) CPU E5-2687W 0 @ 3.10GHz
NumberOfCores : 8
NumberOfLogicalProcessors: 16
DeviceID : CPU1
L2CacheSize : 2048
L3CacheSize : 4096
MaxClockSpeed : 3101
Name : Intel(R) Xeon(R) CPU E5-2687W 0 @ 3.10GHz
NumberOfCores : 8
NumberOfLogicalProcessors: 16

(End of data from sysinfo program)

General Notes

Binaries were built on Windows 7 Professional (64-bit)

Submitted_by: <Alex_Shows@DELL.com>
Submitted: Mon Feb 11 17:38:59 EST 2013
Submission: cpu2006-20130211-25514.sub

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.hmmmer: -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



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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

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

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Peak Optimization Flags (Continued)

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

458.sjeng: basepeak = yes

462.libquantum: basepeak = yes

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 file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Dell-ic12.1-Windows.20130226.html>

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

<http://www.spec.org/cpu2006/flags/Dell-ic12.1-Windows.20130226.xml>



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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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