



SPEC® CINT2006 Result

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Dell Inc.

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

SPECint®_rate2006 = 627

SPECint_rate_base2006 = 596

CPU2006 license: 55

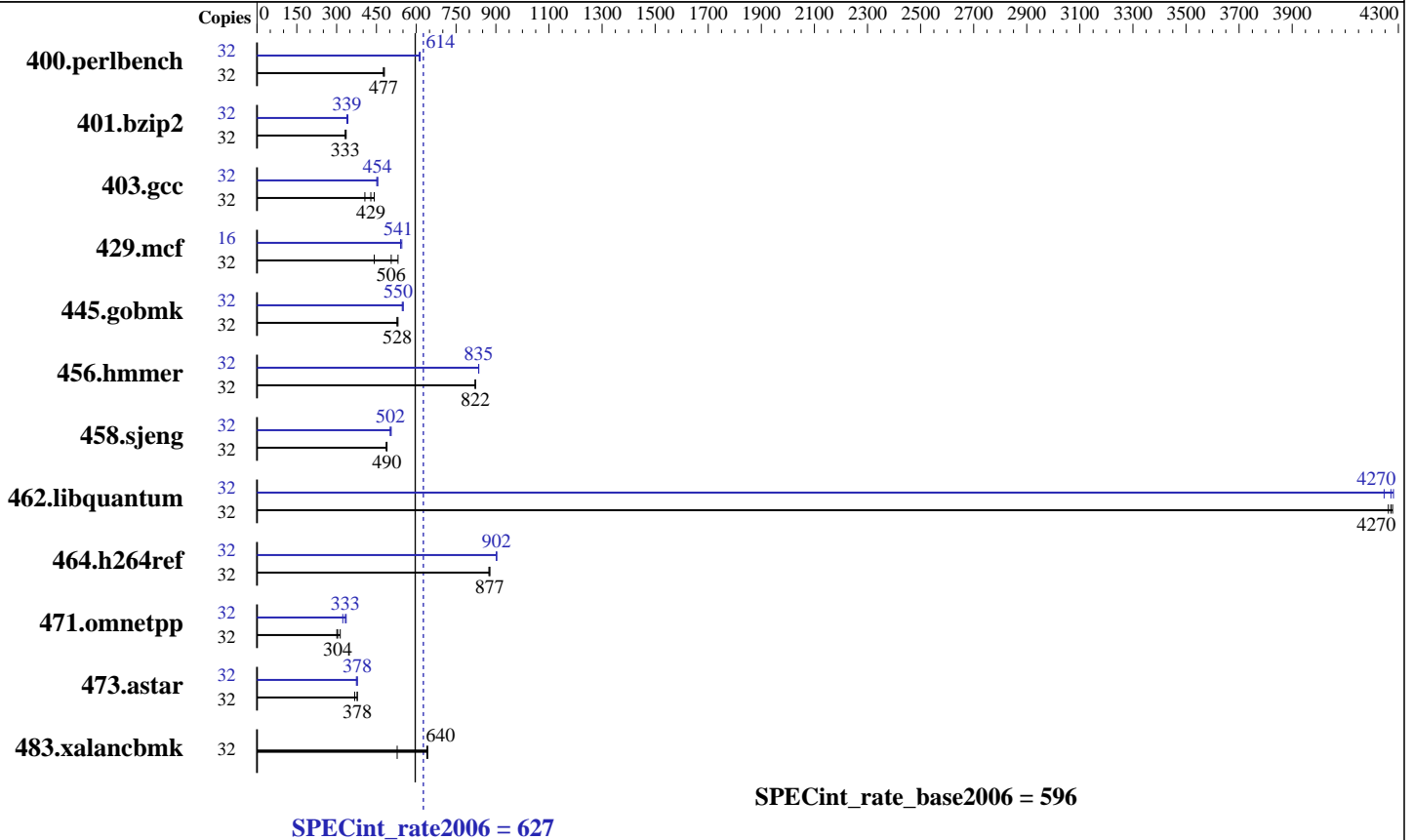
Test sponsor: Dell Inc.

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: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 10.0



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	32	654	477	654	477	651	480	32	509	614	509	614	511	611
401.bzip2	32	932	333	931	333	922	336	32	906	342	913	339	907	339
403.gcc	32	636	406	599	429	585	442	32	569	454	567	454	572	451
429.mcf	32	663	442	578	506	550	531	16	267	546	270	541	270	541
445.gobmk	32	634	528	634	531	635	528	32	610	550	612	547	612	550
456.hammer	32	363	822	363	822	363	822	32	357	835	357	835	358	835
458.sjeng	32	795	486	792	490	789	490	32	765	506	770	502	769	502
462.libquantum	32	155	4280	156	4260	155	4270	32	155	4280	155	4270	156	4250
464.h264ref	32	809	877	809	877	810	874	32	785	902	785	902	784	902
471.omnetpp	32	666	301	638	314	659	304	32	594	336	600	333	618	323
473.astar	32	613	368	595	378	595	378	32	597	378	598	374	597	378
483.xalancbmk	32	418	528	345	640	343	643	32	418	528	345	640	343	643

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

Submit Notes

The config file option 'submit' was used.

Platform Notes

Sysinfo program C:\cpu2006.v1.2/Docs/sysinfo
\$Rev: 6775 \$ \$Date: 2011-08-16 # \$ \8787f7622badcf24e01c368b1db4377c
running on Spec-PC Sat Jan 19 05:22:19 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 ~3101 Mhz
               [02]: Intel64 Family 6 Model 45 Stepping 6 GenuineIntel ~3069 Mhz
BIOS Version  : Dell Inc. A05, 11/8/2012
Total Physical Memory: 65,462 MB
```

```
Trying 'wmic cpu get /value'
DeviceID      : CPU0
L2CacheSize  : 2048
L3CacheSize  : 4096
```

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Platform Notes (Continued)

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: cpu2006-20130211-25517.sub

Base Compiler Invocation

C benchmarks:
icl -Qvc10 -Qstd=c99

C++ benchmarks:
icl -Qvc10

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:
-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

C++ benchmarks:
-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F512000000 shlw32m.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

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) -QxAVX(pass 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) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
-O3 -Qprec-div- -Qopt-prefetch -Qansi-alias /F512000000

403.gcc: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
-O3 -Qprec-div- -Qopt-prefetch /F512000000

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

445.gobmk: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
-O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: Same as 403.gcc

458.sjeng: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
-O3 -Qprec-div- -Qunroll14 /F512000000

462.libquantum: Same as 429.mcf

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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 /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 /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

473.astar: -QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

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.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.xml>

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

Tested with SPEC CPU2006 v1.2.

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