SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

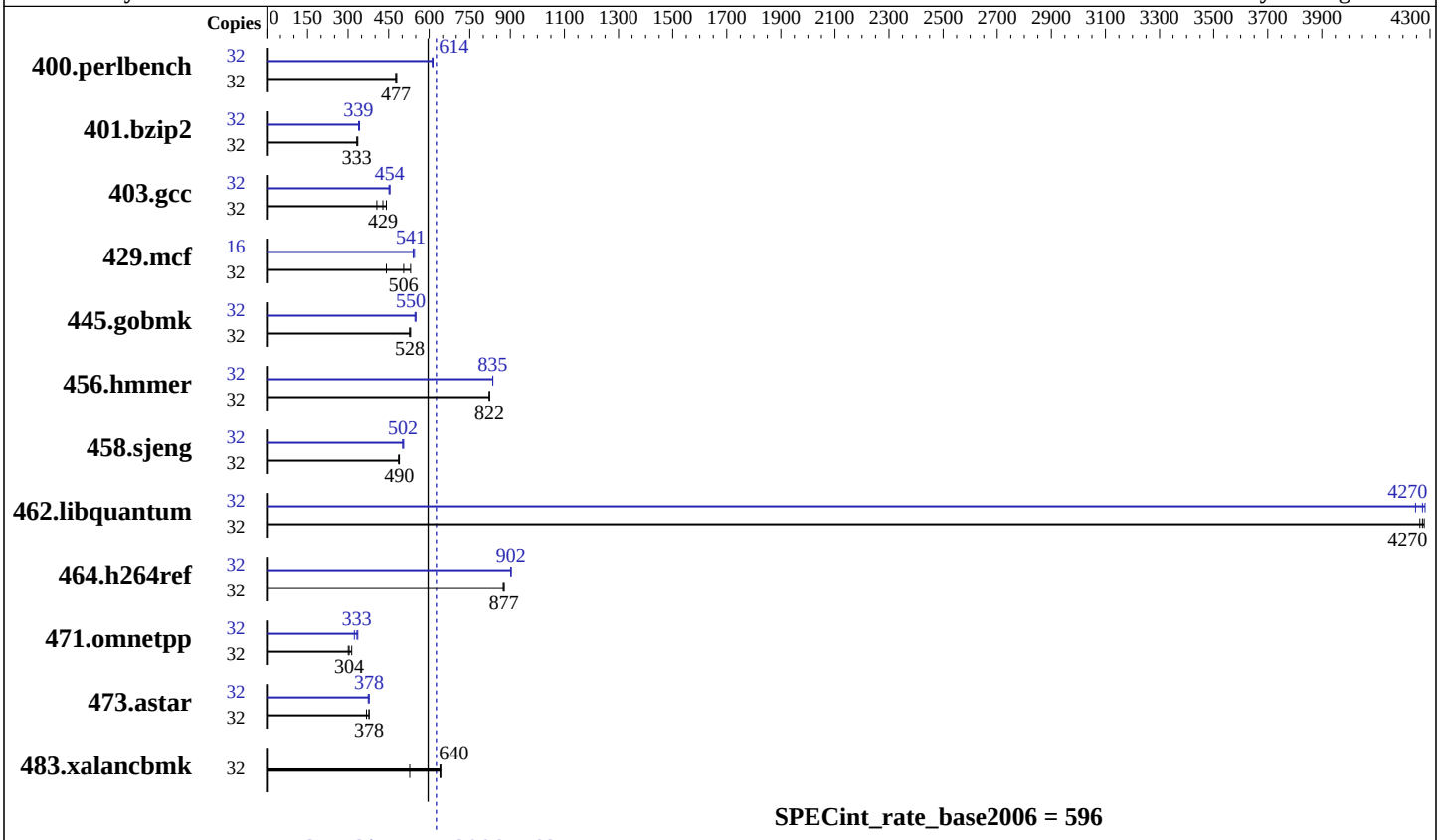
DELL Precision T7600 (Intel Xeon E5-2687W, 3.10GHz)

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

SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

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

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.hmmer	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
```

Continued on next page

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
```

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- -Qunroll4 /F512000000`

462.libquantum: Same as 429.mcf

Continued on next page

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

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.2.
Report generated on Thu Jul 24 15:11:55 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 26 February 2013.