7th generation Intel® Core™ processor

Guest Speaker: David Bradshaw, Products & Solution Marketing, Intel
Moderated by: Peter Krass, Site Editor, Business Compute Forum
Meet the new 7th generation Intel® Core™ processors

Now

- New Intel® Core™ processors from 4.5W-15W
- Powering amazing 2 in 1s and ultrathin notebooks for consumer and small business
- >100 designs in Q4’16

January

- Additional products for enterprise, workstation, Intel® Iris™ Graphics and enthusiasts notebooks and desktops
- Additional form factors across hundreds of designs
Architecture & 14NM+ fuels Performance Gains

12% Process Performance Increase Supports Leading Edge processors

architecture
- HEVC 10-bit
- VP9
- Speed path optimization

14nm+
- Improved fin profile
- Improved transistor channel strain
- Integrated design & manufacturing
7th Gen Intel® Core™ processors

Performance leadership  Everything 4K UHD  Feature rich  Innovative designs

Extending performance & feature leadership in innovative designs
10X More Efficient Vs. 1st Gen

Relative Performance/Watt

7th Gen Intel® Core™ Processor
4.5W

8X

6th Gen Intel® Core™ Processor
4.5W

3.5X

4th Gen Intel® Core™ Processor
11.5W

18W

1st Gen Intel® Core™ Processor

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information about performance and benchmark results, visit http://www.intel.com/benchmarks

Performance based on SYSMark 2014-Overall Performance @ Native Resolution
See appendix for configurations
7th gen Intel® core™ processor
15W U-Series PRODUCTIVITY & Responsiveness
vs. 6th Gen Intel® Core™ Processor

Up to 12% increased productivity
As Measured by SYSmark* 2014

Up to 19% increased web performance
As Measured by WebXPRT* 2015

Process + CPU Optimizations → Double-Digit

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7th Gen Intel® Core™ processors work faster for you
More than 70%\textsuperscript{1} faster mobile productivity than a 5-year-old PC

Work
Get work done \textit{faster}
1.7X Faster\textsuperscript{1}

Create
Seamlessly create, edit and share 4K UHD 360 videos
8.6X Faster\textsuperscript{2}

Game
Play your favorite games, like Overwatch*, on-the-go, in HD
3X Better\textsuperscript{3}

leaps in performance compared to 5-yr-Old PC

\textsuperscript{1}Based on SYSmark* 2014 Overall Score (Intel® Core™ i5-7200U vs. Intel® Core™ i5-2467M).
\textsuperscript{2}Based on 4K 360 Video Creation Workload (Intel® Core™ i5-7200U vs. Intel® Core™ i5-2467M).
\textsuperscript{3}Based on 3DMark* Cloud Gate Graphics Score (Intel® Core™ i5-7200U vs. Intel® Core™ i5-2467M).

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Create video highlights in near real-time

Create in 4K UHD faster
Vs. 5-year-old PC

15X Faster

Convert a 1 hour 4K UHD video in 12 minutes

Intuitive Interaction

Based on MAGIX* Fastcut Video Create Workload (Intel® Core™ i5-7200U vs. Intel® Core™ i5-2467M).

Based on 4K to 1080p H.26 Transcode Workload (Intel® Core™ i5-7200U vs. Intel® Core™ i5-2467M).

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See appendix for configurations.
Feature-RICH
7th Gen Intel® Core™ processor-based PCs

2X Designs (120+)
Gen Over Gen

5X Designs (100+)
Gen Over Gen

4K UHD

50+ Designs

packed with experience-enhancing features
Innovative designs powered by 7th gen Intel® Core™ processors

THINNEST *
CONVERTIBLE
AT 10MM

CLAMSHELLS
thinner
THAN 10MM

FANLESS
DETACHABLE
LESS THAN 7MM

Form factor innovation continues

* Based on availability as of 2016
7th Gen Intel® Core™ processors

Performance Leadership
Work, multitask, create
1.7X – 15X\(^1\) faster

Bringing 4K UHD mainstream
“All Day 4K” battery life (9.5hr)\(^2\)
Premium 4K UHD content on your PC

Feature rich
120+ Thunderbolt™ 3
100+ Windows® Hello 4K
50+ 4K UHD
25+ Pen designs

Innovative designs
New levels of thin 2 in 1s and clamshells

>100 designs in Q4’16 starting in September

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\(1\) Range of performance scores on benchmarks in this presentation
\(2\) Based on 4K HEVC 10-bit local video playback on Intel® Core™ i7-7500U at 66WHr battery and 4K panel
See appendix for configurations

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Selected OEM PCs with 7th Gen Intel Core Processors

**Dell Inspiron 13 5000**
- 13-inch display
- Weight: 3.77 lb. (1.7 kg)
- 360-degree hinge for 2-in-1 usability
- Standard with Windows 10 Home
- Optional infrared camera works with Windows Hello for facial-recognition login
- Retail starts at $749

**Lenovo YOGA 710 (14”)**
- 14-inch “edgeless” HD touch display
- Weight: 3.4 lb. (1.55 kg)
- 4 usage modes: laptop, stand, tent, tablet
- Standard with Windows 10 Home
- Retail starts at $1,799

**HP Spectre x360**
- 13.3-inch “micro edge” touch display
- Weight: 2.85 lb. (1.29 kg)
- 360-degree hinge for notebook, tablet, presentation, stand modes
- Standard with Windows 10 Home
- Up to 15 hours of battery life
- Retail starts at $779