

# FutureHorizons



The Global Semiconductor Industry Analysts

## FH MONDAY

11 June 2018

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### Intel Launches Anniversary Edition i7-8086K

Intel has taken to the stage at Computex to announce the Core i7-8086K, an homage to its classic 8086 CPU on its 40th anniversary. Billed as a limited edition CPU, it is Intel's first processor to be marketed with a clock frequency of 5.0GHz, albeit of the single-core turbo variety. The 8086K sits atop the Coffee Lake desktop range with a six-core, twelve thread configuration.

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SAN JOSE, Calif. — July 1 is the big day for 802.11ax, the next big thing in Wi-Fi. That's the date that engineers are expected to approve an initial draft of the standard.

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### TALK TO US



### Globalfoundries Cuts 5% of Workforce

SAN JOSE, Calif. — Globalfoundries has started a layoff aimed at trimming 5% of its workforce as part of its new focus on financial performance. The company does not plan to close any fabs or cut any of its existing services.

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### EVENTS

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– 11 June 2018 – London UK

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### NXP Launches Mobile Wallet Solution for Wearables, IoT

LONDON — One of the ongoing challenges for device manufacturers is how to move up the value chain and offer system-level solutions that can add more value.

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## **Arm Targets Laptop Performance**

AUSTIN, Texas — Arm announced a new mobile CPU core that it said can deliver performance within 10% of Intel's latest Skylake chips. Analysts praised the architecture's leap forward but said that they doubt Arm will take a significant share of today's x86-based notebooks.

The Cortex-A76 arrives in tandem with new Mali G76 GPU and V76 video cores. All three are expected to appear in premium smartphone SoCs before the end of the year.

The A76 marks a full redesign for mobile systems, packing up to 2-Mbytes L2 cache, 4-Mbytes L3, and running at more than 3 GHz in a 7-nm node. It aims to deliver 90% of the Specint2006 performance of an Intel mobile Skylake chip with one-fourth the area and half the power — or roughly the same performance in thermally constrained systems.

## **Intel Launches Anniversary Edition i7-8086K**

TAIPEI — Intel has taken to the stage at Computex to announce the Core i7-8086K, an homage to its classic 8086 CPU on its 40th anniversary. Billed as a limited edition CPU, it is Intel's first processor to be marketed with a clock frequency of 5.0GHz, albeit of the single-core turbo variety. The 8086K sits atop the Coffee Lake desktop range with a six-core, twelve thread configuration.

In-store availability of the i7-8086K is set for June 8th — exactly 40 years after the original 8086 went on sale.

Later on at the same keynote it also announced a 28-core, single-socket CPU system, set to be launched at the end of the year. A live demo was held on stage, with the processor producing a full 7334 CB-CPU in Cinebench R15, rendering with 56 threads simultaneously. Exact product family and additional specifications are unclear, although the audience was led to believe that all cores were running at 5.0GHz during the benchmark.

## **Wi-Fi Expects 11ax OK In July**

SAN JOSE, Calif. — July 1 is the big day for 802.11ax, the next big thing in Wi-Fi. That's the date that engineers are expected to approve an initial draft of the standard.

It's been a longer-than-anticipated road to get to this point. First and second drafts failed to get the required 75% approval from the group in November 2016 and September 2017. At one point, pundits thought that early 11ax products might ship in 2017.

Typically, IEEE standards take three years. The 11ax group has been at it for four years so far. That's longer than today's 11ac standard took but still shorter than the complex 11n standard before it.

Participants blame the complexity of the spec. It aims to boost users' data rates up to 30% while lowering latency nearly four times and delivering as much as four times the overall data on the same spectrum as today's 11ac.

## **Globalfoundries Cuts 5% Of Workforce**

SAN JOSE, Calif. — Globalfoundries has started a layoff aimed at trimming 5% of its workforce as part of its new focus on financial performance. The company does not plan to close any fabs or cut any of its existing services.

The layoffs will affect about 900 of GF's 18,000 employees "across a variety of functional areas and all geographies," said a company spokesman. "We remain fully committed to delivering our roadmap."

The company informed workers of the cuts on Monday (June 11). It will offer a voluntary separation program that it expects many people will accept.

## **NXP Launches Mobile Wallet Solution For Wearables, IoT**

LONDON — One of the ongoing challenges for device manufacturers is how to move up the value chain and offer system-level solutions that can add more value. Addressing the mobile wallet ecosystem, NXP Semiconductors has developed an end-to-end hardware and software solution for OEMs looking to add mobile payment capability to wearable, mobile, or IoT devices.

German high-end luxury goods manufacturer Montblanc is set to use NXP's new solution, mWallet 2Go, in a smartwatch strap.

Developed in collaboration with Mastercard and Visa, mWallet 2Go comprises NXP's near-field communications (NFC), secure element (SE), NFC middleware, SE JavaCard operating system, SE applets, secure element management service (SEMS), wallet application and software developer kit (SDK), wallet server, and Mastercard digital enablement service (MDES) and Visa token service (VTS) tokenization platforms. This entire system enables OEMs to develop a pre-certified and validated turnkey solution. Mastercard had already teamed up with NXP to develop a "loader service," an applet and client accessible to developers looking to deploy secure NFC payments.