usenix
THE ADVANCED COMPUTING SYSTEMS ASSOCIATION

2016 USENIX
VAIL Compute[illegible] Elements Workshop
June 19 -June 22, 2016

Program Chair: David Flynn, ARM, david.Flynn@arm.com
Program Co Chair: Steve Miller, Intel, steven.c.miller@intel.com

Sunday June 19, 5 PM Registration, Dinner and Keynote Presentation

Cryptography in the New World Order
John Kelsey, NIST

Key Note Chair: Jim Hughes, jphughes@mac.com

Monday June 20
9:00 AM – 12:00 noon
Session 1: Processors Chairs: Jay, Fleischman, AMD, Jay.Fleischman@amd.com
Richard Grisenthwaite, ARM, richard.Grisenthwaite@arm.com

- **Intel Quark Processor** Venkat Madduri, Intel, venkateswara.madduri@intel.com
- **RISC-V: Instruction sets want to be free** Krste Asanovic, UC Berkeley, krste@berkeley.edu
- **X-Gene3** Greg Favor, AppliedMicro, gfavor@apm.com

1:30 PM – 4:30 PM
Session 2: Consumer Chairs: Atsushi Hasegawa, Renesas, atsushi.hasegawa.gx@renesas.com
Yoshio Masubuchi, Toshiba, yoshio.masubuchi@toshiba.co.jp

- **Normally-Off Computing** Hiroshi Nakamura, Univ Tokyo, nakamura@hal.ipc.i.u-tokyo.ac.jp
- **Microcontroller for Small Sensing Nodes** Masami Nakajima, Renesas, masami.nakajima.wj@renesas.com
- **LIDAR for ADAS and autonomous vehicles** Ken Tanabe, Toshiba, kenn.tanabe@toshiba.co.jp
- **Automotive Lidar technologies** Harvey Weinberg, Analog Devices, harvey.weinberg@analog.com

Tuesday June 21
9:00 AM – 12:00 noon
Session 4: OS and Security Chairs: Michael Allen, Analog Devices, michael.allen@analog.com
Steve Miller, Intel, steven.c.miller@intel.com

- **Barrelfish: an operating system for modern hardware** Timothy Roscoe, ETH, troscoe@inf.ethz.ch
- **SeaOS: A simple OS for multicore Machines** Daniel Bittman, UCSC, danielbittman1@gmail.com
- **Haven: Shielding Applications from an Untrusted Cloud** Andrew Baumann, Microsoft, Andrew.Baumann@microsoft.com
- **Failure Provenance Analysis: From Crashdump to Shellcode**
  Parker Thompson, Leviathan, Parker.Thompson@leviathansecurity.com
  Baron Von Oldenberg, Baron.Oldenburg@leviathansecurity.com

Planning Session: VCEW 2017, 4PM – 5:30 PM All invited to participate.

8:30 PM – 10:00 PM
Session 5: Internet of Things Chairs: Pete Wilson, NXP, peter.wilson@nxp.com
Bill Huffman, Cadence (Tensilica), huffman@alum.mit.edu

- **IoT: The Next Technology Cycle** Krisztian, Flautner, ARM, Krisztian.Flautner@arm.com
- **Bringing Deep Learning to the Mass Market** Samer Hijazim, Cadence, shijazi@cadence.com

Wednesday June 22
9:00 AM – 12:00 noon
Session 6: Process and GPU Chairs: Yahya Sotoudeh, Intel, yahya.sotoudeh@intel.com
David Flynn, ARM, david.Flynn@arm.com

- **Low Voltage SRAM** David Burnett, Global Foundries, david.burnett@globalfoundries.com
- **Accelerating Hyper Cloud Data Center Solutions with Breakthrough Integration Technologies**
  Sanjay Charagulla, Global Foundries, sanjay.charagulla@globalfoundries.com
- **The Bifrost GPU architecture and the ARM Mali-G71 GPU** Jem Davies, ARM, Jem.Davies@arm.com

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Comm. Vice Chair: Steve Miller
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Finance Chair:
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Asia Pacific Chair: Atsushi Hasegawa
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