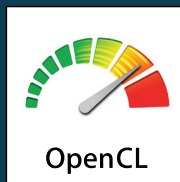


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OpenCL Workshops, Tutorials, BoF

Monday, Nov. 16

9:00am - 12:30pm: Room 17B

Tutorial: Portable Programs For Heterogeneous Computing: A Hands-on Introduction

Tim Mattson, Simon McIntosh-Smith, Alice Koniges

A high-level survey and hands-on introduction to writing portable software for heterogeneous platforms. We will work only with portable APIs and languages supported by vendor-neutral standards: a critical approach for building software for use across multiple hardware generations and platforms from competing vendors.

Tuesday, Nov. 17

5:15 - 7:00pm: Level 4 Lobby

Poster: FPGA-based OpenCL Acceleration of Genome Sequencing Software

Ashish Sirasao, Elliott Delaye, Ravi Sunkavalli, Stephen Neuendorffer

Get your OpenCL reference card at the booth or the BOF.

Visit khronos.org/opencl for specifications, header files, reference cards, forums, sample code, utilities, books, and more.

Wednesday, Nov. 18

5:30 - 7:00pm: Room 17AB

BOF: Flocking Together: Experience the Diverse OpenCL Ecosystem

Simon McIntosh-Smith

OpenCL was created and maintained by a consortium of like-minded organizations. This has resulted in its acceptance and across the ecosystem as a highly portable, non-proprietary HPC option. Learn the latest on the newly released OpenCL 2.1 C++ kernel language and SYCL 2.1 abstraction layers. Then experiment with implementations and tools from multiple vendors. Bring your code and your toughest questions and join the OpenCL Manycore Mashup.

PARTICIPATING VENDORS:



Thursday, Nov. 19

4:00 - 4:30pm: Room 18AB

Paper: Bridging OpenCL and CUDA: A Comparative Analysis and Translation

Junghyun Kim, Thanh Tuan Dao, et al.

We present similarities and differences between OpenCL to CUDA and propose an automatic translation from one to the other.

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