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Introduction to OpenCL™ for Intel®
FPGAs
With OpenCL training experience ranging

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from half day on-site introductions within companies, to two-day intensive hands-on workshops for undergraduates, Simon can provide customized OpenCL training to meet your needs.

Advanced HandsOnOpenCL Tutorial -
IWOCL

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It covers the constructs of the OpenCL standard and the Intel FPGA flow that automatically converts kernel C code into hardware that interacts with the host. In hands-on labs, you'll write programs to run in emulation mode as well as on an FPGA board.

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OpenCL: A Hands-on Introduction
Hands On OpenCL is a two-day lecture course introducing OpenCL, the API for writing heterogeneous applications. Provided are slides for around twelve lectures, plus some appendices, complete with Examples and Solutions in C, C++ and Python. The lecture series finishes

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with information on porting CUDA applications to OpenCL.

OpenCL: A Hands-on Introduction
A hands-on Introduction to OpenCL Tim
Mattson Acknowledgements: Alice
Konigesof Berkeley Lab/NERSC and
Simon McIntosh-Smith, James Price, and

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Tom Deakin of the University of Bristol

Hands On OpenCL by HandsOnOpenCL

OpenCL: A Hands-on Introduction Tim

Mattson Intel Corp. Alice Koniges

Berkeley Lab/NERSC Simon McIntosh-

Smith University of Bristol

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on slides produced by Tom Deakin and Simon which were based on slides by Tim and Simon with help from Ben Gaster (Qualcomm) .

Introduction to OpenCL™ | Intel®
Software

OpenCL in Action is a thorough, hands-on

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presentation of OpenCL, with an eye toward showing developers how to build high-performance applications of their own. It begins by presenting the core concepts behind OpenCL, including vector computing, parallel programming, and multi-threaded operations, and then guides you step-by-step from simple data

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structures to complex functions.

SC14 New Orleans - The Khronos Group
Inc

A Gentle Introduction to OpenCL. By
Matthew Scarpino, August 03, 2011.

Writing and running your first app with
code executing on the CPU and the GPU.

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OpenCL provides many benefits in the field of high-performance computing, and one of the most important is portability. OpenCL-coded routines, called kernels, can execute on GPUs and CPUs from ...

OpenCL in Action: How to Accelerate Graphics and ...

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This course will teach you how to accelerate algorithms on FPGAs using the OpenCL™ framework. In this class, we will cover the FPGA technologies that make it an ideal coprocessor to boost performance. We will discuss how to use the Intel® FPGA SDK for OpenCL to synthesize OpenCL constructs into custom

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logic to easily leverage the advantages of
FPGA accelerated computing.

Introduction to OpenCL - Real World
Tech

A Hands-on Introduction Tim Mattson
Intel Corp. Alice Koniges Berkeley
Lab/NERSC Simon McIntosh-Smith

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University of Bristol Acknowledgements:
James Price and Tom Deakin of the
University of Bristol . Agenda ... – Each
OpenCL Device is composed of one or
more Compute Units

OpenCL - Khronos Group
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Page 18/31

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Acknowledgements: In addition to Tim,
Alice and Simon ... Tom Deakin (Bristol)
and Ben Gaster (Qualcomm) contributed
to this content.

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» SC'11 Heterogeneous Compute
In this BOF, we will discuss the latest developments in OpenCL including the recent OpenCL 2.0 specification. We will then convene a panel representing divergent views on the future of OpenCL to engage in an interactive debate on

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where to take OpenCL. More information and calendar links.

Introduction to GPU Computing with
OpenCL

Using OpenCL, a programmer can write parallel programs that use all the resources of the heterogeneous computer.

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In this hands-on tutorial, we will introduce OpenCL. The format will be a 50/50 split between lectures and exercises.

A hands-on Introduction to OpenCL
A Hands-On Introduction Simon McIntosh-Smith, University of Bristol OpenCL is an open standard for programming

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heterogeneous parallel computers
composed of CPUs, GPUs and other
processors.

GitHub - HandsOnOpenCL/Exercises-
Solutions: C, C++ and ...

To the Intel® SDK for OpenCL*
Applications main page Abstract

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OpenCL* is an important new standard for heterogeneous computing. With OpenCL, a software developer can write a single program running on everything: from cell phones to nodes in a supercomputer. To reach its full potential, however, OpenCL needs to deliver more than portability. It needs to deliver

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"performance portability".

A Hands-on Introduction

@ SC 2015 | BOOTH #285@

SUPERCOMPUTING 2013 OpenCL ©

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GitHub - HandsOnOpenCL/Lecture-Slides: Lecture Slide Issue ...

Once the project was in good enough shape, Apple put OpenCL into the hands of the Khronos Group, the standards body behind OpenGL. The lion's share of the early OpenCL work was done by Apple

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and Nvidia. The first software implementation of OpenCL was a key feature in the v10.6 of the Mac OS, which was released in August of 2009.

Tutorial: OpenCL* - Introduction for
HPC Programmers ...
Introduction to GPU Computing with

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OpenCL. Presentation Outline Overview
of OpenCL for NVIDIA GPUs ... //

OpenCL Kernel Function for element by
element vector addition // ***** __kernel
void VectorAdd (__global float * a,
__global float * b, __global float * c, ...

Begin hands-on development with the
NVIDIA OpenCL SDK Read OpenCL

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Specification ...

A Gentle Introduction to OpenCL | Dr
Dobb's

Open Compute Language (OpenCL™)
provides a framework to write programs
in C-like language that can run on
heterogeneous cores such as CPUs, GPUs

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or specialized hardware. This white paper provides a brief introduction to the OpenCL framework.

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