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OpenCL: A Hands-on

Introduction Tim Mattson

Intel Corp. Alice Koniges

Berkeley Lab/NERSC Simon

McIntosh-Smith University of

Bristol Acknowledgements: In

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

OpenCL: A Hands-on Introduction - NERSC

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Introduction Tim Mattson
Intel Corp. Alice Koniges
Berkeley Lab/NERSC Simon
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This content is based on
slides produced by Tom
Deakin and Simon which were

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based on slides by Tim and Simon with help from Ben Gaster (Qualcomm) .

OpenCL: A Hands-on Introduction

Welcome. Hands On OpenCL is a two-day lecture course

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introducing OpenCL, the API for writing heterogeneous applications. Get the slides and code. The slides are available under Releases. The code is available in the Exercises and Solutions... Course Structure. Examples.

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Run a simple OpenCL program

...

Hands On OpenCL by HandsOnOpenCL

OpenCL –Open Computing
Language Open, royalty-free
standard for portable,

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parallel programming of
heterogeneous parallel
computing CPUs, GPUs, and
other processors CPUs
Multiple cores driving
performance increases GPUs
Increasingly general purpose
data-parallel computing

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Graphics APIs and Shading
Languages Multi-processor
programming – e.g. OpenMP

A hands-on Introduction to OpenCL

Introduction to OpenCL. Open
Computing Language is a

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framework for writing programs that execute across heterogeneous platforms. They consist for example of CPUs GPUs DSPs and FPGAs. OpenCL specifies a programming language (based on C99) for programming

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these devices and application programming interfaces (APIs) to control the platform and execute programs on the compute devices.

Introduction to OpenCL -

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Parallel Programming

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- General models in OpenCL -
Hands-on: Accessing the
servers we'll be using in

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the course • The OpenCL
python environment (45
minutes) - The OpenCL Host
API - The python interface
to the Host API - Hands-on:
running a canned program (to
test the environment) •
Running a basic OpenCL

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program: part 1 (30 minutes)

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For OpenCL 1.2, use the
"Alternative Way" to run the
kernel given in the complete
code example of the original

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OpenCL™ is a standard for writing parallel programs

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for heterogeneous systems,
much like the NVidia* CUDA*
programming language. In the
FPGA environment, OpenCL
constructs are synthesized
into custom logic. An
overview of the OpenCL
standards will be discussed.

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You will learn about the platform, execution, memory, and programming models that define the OpenCL specification.

**Introduction to OpenCL on
FPGAs | Coursera**

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Hands on OpenCL. 1. Hands On
OpenCL Created by Simon
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Deakin Includes
contributions from: Timothy
G. Mattson (Intel) and
Benedict Gaster (Qualcomm)
2. Agenda Lectures Exercises

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Setting up OpenCL Platforms
Set up OpenCL An overview of
OpenCL Run the platform info
command Important OpenCL
concepts Running the Vadd
kernel Overview of OpenCL
APIs Chaining Vadd kernels A
hosts view of working with

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Abstract. OpenCL* is an
important new standard for

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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

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deliver more than
portability. It needs to
deliver "performance
portability".

**Tutorial: OpenCL* -
Introduction for HPC
Programmers**

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OpenCL TI Platform Model •
ARM Cortex-A15 is the host:
CdCommands are
submitted from the
host to the OpenCL
devices (execution and
memory move). • All C66x DSP
Cores are OpenCL compute

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devices. Each DSP core is a compute unit. An OpenCL device is viewed by the OpenCL programmer as a single virtual processor.

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- **TI Training**

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Introduction2) Programming
Basics3) "Hello World"4)
Final remarks. 3.

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hands-on introduction to

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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

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multiple hardware
generations and platforms
from competing vendors.

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