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Intro to CUDA - An introduction, how-to, to NVIDIA's GPU parallel programming architecture **Introduction** to NVIDIA's **CUDA** parallel architecture and programming model. Learn more by following @gpucomputing on twitter.

An Intro to GPU Architecture and Programming Models I Tim Warburton, Virginia Tech Presented at the Argonne Training Program on Extreme-Scale Computing 2017. Slides for this presentation are available here: ...

Fundamentals of GPU Architecture: Introduction In this video we **introduce** the field of **GPU** architecture that we expand upon in later videos in the series! For code samples: ...

Your First CUDA C Program Learn how to write, compile, and run a simple C program on your **GPU** using Microsoft Visual Studio with the Nsight plug-in.

An Introduction to GPU Programming with CUDA If you can parallelize your code by harnessing the power of the **GPU**, I bow to you. **GPU** code is usually abstracted away by the ...

Introduction to NVIDIA Nsight Compute - A CUDA Kernel Profiler Understanding and optimizing the runtime behavior of your code can be a challenging effort but is often rewarded with significant ...

Inside the Volta GPU Architecture and CUDA 9 In this video from the NVIDIA **GPU** Technology Conference, Axel Koehler presents: Inside the Volta **GPU** Architecture and **CUDA 9** ...

CUDA Crash Course: Matrix Multiplication In this video we go over basic matrix multiplication in **CUDA**! For code samples: <http://github.com/coffeebeforearch> For live ...

Introduction to Signal Processing <http://AllSignalProcessing.com> for free e-book on frequency relationships and more great signal processing content, including ...

What are Tensor Cores? Here's the Nvidia blog explaining Tensor Cores in great detail: <https://devblogs.nvidia.com/programming-tensor-cores-cuda-9/> ...

CUDA

What is Engineering?: Crash Course Engineering #1 In our first episode of Crash Course Engineering, Shini explains what engineering is, and gives a brief overview of its four ...

GPU programming for beginners (HPC and GPU Webinar Series) Topics covered: **Introduction** to Shared Memory Architectures, Why use GPUs?, **Introduction** to **CUDA** C, Using **CUDA** on gSTAR, ...

Jetson Nano Developer Kit - Getting Started with the NVIDIA Jetson Nano Today we will look at the NVIDIA Jetson Nano Developer Kit, a low-cost platform for developing Artificial Intelligence (AI) ...

Stanford Seminar - NVIDIA GPU Computing: A Journey from PC Gaming to Deep Learning EE380: Computer Systems Colloquium Seminar NVIDIA **GPU** Computing: A Journey from PC Gaming to Deep Learning Speaker: ...

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CUDA Part A: GPU Architecture Overview and CUDA Basics; Peter Messmer (NVIDIA) Programming for GPUs Course: **Introduction** to OpenACC 2.0 & **CUDA 5.5** - December 4-6, 2013.

Intro to CUDA (part 1): High Level Concepts **CUDA** Teaching Center Oklahoma State University ECEN 4773/5793.

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