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~~Intro to CUDA - An~~

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~~Programming CUDA~~

~~Phase Retrieval~~

~~Example 2 CUDA~~

~~Programming - C/C++~~

~~Basics CUDA~~

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Programming Basics

Part I ~~CUDACast #2~~

~~Your First CUDA C~~

~~Program~~

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What are Tensor Cores?

What Are CUDA

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GPU programming with

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to use a CUDA GPU to

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Kernels with C++ -

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CUDA In Your Python:

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Programming on the

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An Introduction to
GPU Programming
with CUDA Cuda By
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CUDA by Example,
written by two senior
members of the CUDA
software platform team,
shows programmers
how to employ this new
technology. The authors
introduce each area of
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through working

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NVIDIA Developer
CUDA by Example. An
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General-Purpose GPU
Programming. Jason
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Example Nvidia technology. The authors introduce each area of CUDA development through working examples. After a concise introduction to the CUDA platform and architecture, as well as a quick-start guide to CUDA C, the book details the techniques and trade-offs associated with each key CUDA feature.

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introduce each area of
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CUDA by Example: An Introduction to General-Purpose GPU

Programming. Jason

Sanders, Edward

Kandrot. “ This book is required reading for anyone working with accelerator-based

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computing systems.”

– From the Foreword
by Jack Dongarra,
University of Tennessee
and Oak Ridge
National Laboratory
CUDA is a computing
architecture designed to
facilitate the
development of parallel
programs.

CUDA by Example: An
Introduction to General-

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Example GPU ... Nvidia

Since `hist_gpu_gmem_atomics.cu` requires compute capability 1.1 to function properly, the easiest way to compile this example is, `> nvcc -arch=sm_11 hist_gpu_gmem_atomics.cu`

Similarly, `hist_gpu_shmem_atomics.cu` relies on features of compute capability 1.2, so it can be compiled as follows:

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```
> nvcc -arch=sm_12 hip-  
t_gpu_shmem_atomics.  
cu
```

Compiling Examples
with OpenGL and
GLUT Dependencies

----- The following
examples use OpenGL
and GLUT (GL Utility
Toolkit) in order to
display their results ...

GitHub - chris-ricketts/
cuda-by-example

CUDA by Example

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addresses the heart of

the software

development challenge

by leveraging one of the

most innovative and

powerful solutions to the

problem of

programming the

massively parallel

accelerators in recent

years. This book

introduces you to

programming in CUDA

C by providing

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CUDA by Example: An Introduction to General-Purpose GPU ...

CUDA by Example, written by two senior members of the CUDA software platform team, shows programmers how to employ this new technology. The authors introduce each area of CUDA development

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code-for-the-book-s ...

As of December 2015
the official page for
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moved to [https://develo
per.nvidia.com/cuda-](https://developer.nvidia.com/cuda-)

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you can download the
sample chapter and
example code including
book.h and
cpu_bitmap.h.

CUDA By Example
utility libraries - Stack
Overflow

torch.backends.cuda.cuf
ft_plan_cache.clear()
clears the cache. To
control and query plan

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Examples of a non-default device, you can index the `torch.backends.cuda.cufft_plan_cache` object with either a `torch.device` object or a device index, and access one of the above attributes.

CUDA semantics —

PyTorch 1.7.0

documentation

The CUDA C compiler,

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nvcc, is part of the
NVIDIA CUDA

Toolkit. To compile our SAXPY example, we save the code in a file with a .cu extension, say saxpy.cu. We can then compile it with nvcc.

```
nvcc -o saxpy saxpy.cu.
```

We can then run the code: % ./saxpy
Max error: 0.000000

Summary and Conclusions

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An Easy Introduction to
CUDA C and C++ -
NVIDIA Developer
CUDA C++

Programming Guide

PG-02829-001_v11.1 |

ii Changes from Version
11.0 Added

documentation for

Compute Capability

8.x. Updated section

Arithmetic Instructions
for compute capability

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8.6. Updated section
Features and Technical
Specifications for
compute capability 8.6.

CUDA C++

Programming Guide -
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Example. The authors introduce each area of CUDA development through...

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scan - CUDA Parallel Prefix Sum (Scan) This example demonstrates an efficient CUDA implementation of parallel prefix sum, also

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known as "scan". Given an array of numbers, scan computes a new array in which each element is the sum of all the elements before it in the input array.

CUDA Samples ::

CUDA Toolkit

Documentation

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