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Purpose GPU Programming. If you find new errors or corrections, please send e-mail to [cuda@nvidia.com](mailto:cuda@nvidia.com), with the subject Errata for CUDA by Example. List of Errors and Corrections: p.23,25 - The `#includes` for this example are incorrectly shown as: `#include iostream` and `#include book.h`.

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## **Errata Page | NVIDIA Developer**

Such function can be called through host code, e.g. the main() function in the example, and is also known as "kernels". When a kernel is called, its execution configuration is provided through <<<...>>> syntax, e.g. cuda\_hello<<<1,1>>>(). In CUDA terminology, this is called "kernel launch".

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## **Tutorial 01: Say Hello to CUDA - CUDA Tutorial**

Keeping this sequence of operations in mind, let's look at a CUDA C example. A First CUDA C Program. In a recent post, I illustrated Six Ways to SAXPY, which includes a CUDA C version. SAXPY stands for "Single-precision A\*X Plus Y", and is a good "hello world" example for parallel

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## **General-Purpose Gpu ...**

CUDA GPUs have many parallel processors grouped into

Streaming

Multiprocessors, or

SMs. Each SM can run

multiple concurrent

thread blocks. As an

example, a Tesla P100

GPU based on the

Pascal GPU

Architecture has 56

SMs, each capable of

supporting up to 2048

active threads. To take

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full advantage of all these threads, I should launch the kernel with multiple thread blocks.

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development through  
working examples.

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I had a quick look on  
the forums and I don't  
think this question has  
been asked already. I  
am currently working  
with an MPI/CUDA  
hybrid code, made by  
somebody else during  
his PhD. Each CPU has

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