

Cuda By Example An Introduction To General Purpose Gpu Programming Jason Sanders

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

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