

软件学院 杨伟光

Heterogeneous Parallel Computing

Menu



Heterogeneous Architecture

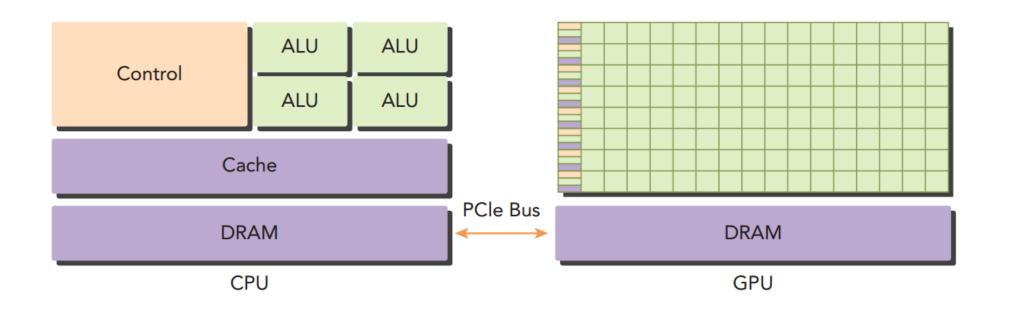
Paradigm of Heterogeneous Computing

Platforms for Heterogeneous Computing

CUDA Platforms for Heterogeneous Computing

Heterogeneous Architecture





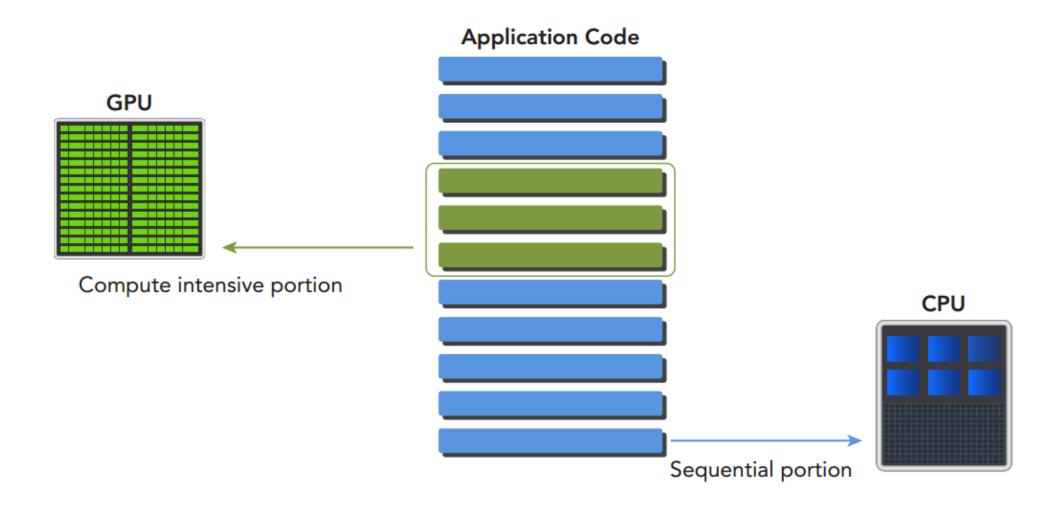
A heterogeneous application consists of two parts:

- ➤ Host code
- > Device code

Host code runs on CPUs and device code runs on GPUs.

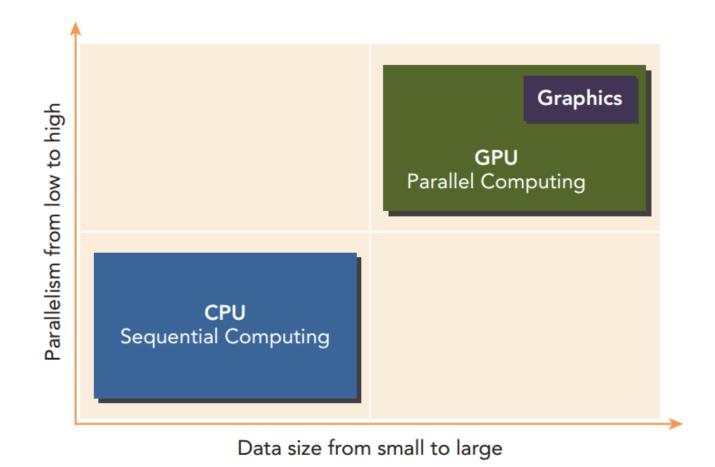
Heterogeneous Architecture





Paradigm of Heterogeneous Computing























Ecosystem











DVIDIA.





























Working Group Members Apps/Tools/Tests/Courseware























How to choose?







How to choose?



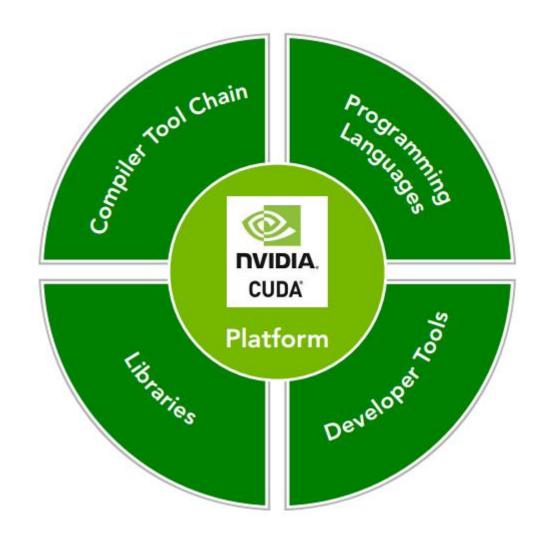


performance



portability

CUDA Platforms for Heterogeneous ComputingHPCFIP



CUDA Platforms for Heterogeneous ComputingHPCFIP

- GeForce The ultimate GPU for gamers
- Tesla
 supercomputing solutions
- Quadro Professional Workstation Solutions
- Tegra

 The World's Fastest Mobile Processors

NVIDIA Processors and how to choose GPU?

CUDA Platforms for Heterogeneous ComputingHPCFIP

GeForce → GTX The ultimate GPU for gamers

Inexpensive

High Performance

Disadvantages

NVIDIA Processors and how to choose GPU?

Thanks

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