



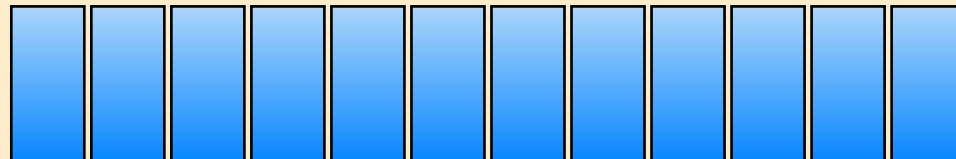
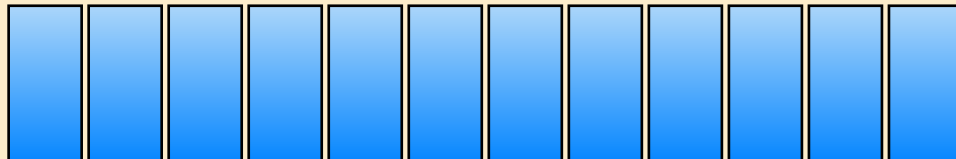
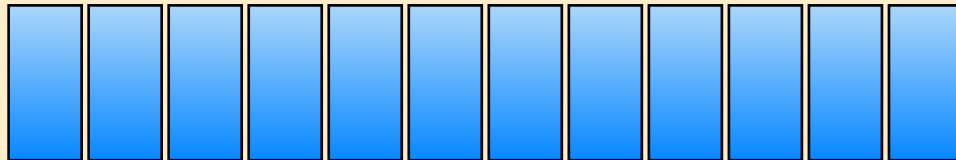
Shared Memory (GPGPU)

Parallel Processing Architectures

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GRAM

Control Unit

Core

RAM

Core

Cache

Central Processing Unit

Graphic Processing Unit

Unified Particle Physics for Real-Time Applications

Miles Macklin Matthias Müller Nuttapong Chentanez Tae-Yong Kim

NVIDIA

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Parallel Processing Tools



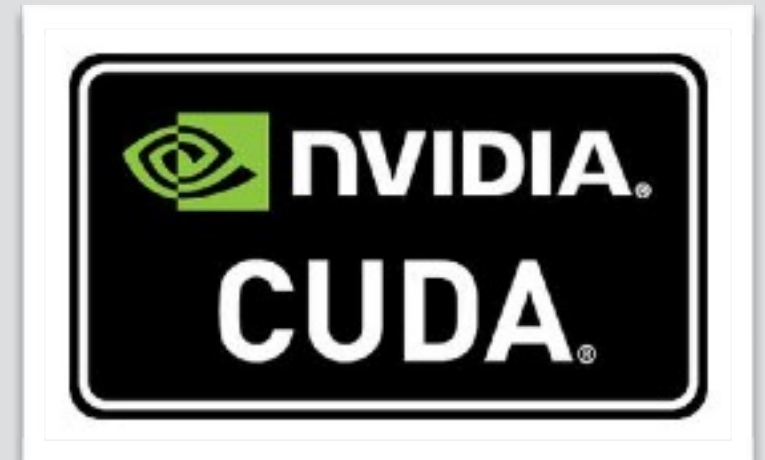
OpenMP

- Shared Memory Processing
- Many OS s including Linux, OSX and windows
- C, C++, Fortran



Cilk Plus

- Shared Memory Processing
- Many OS s including Linux, OSX and windows
- C, C++



Nvidia CUDA

- Designed by Nvidia
- For GPU Computing
- Only on Nvidia GPUs