

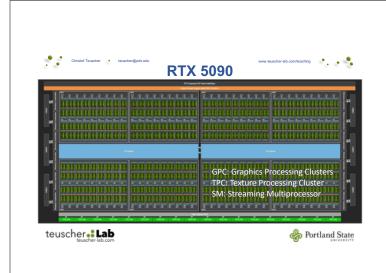


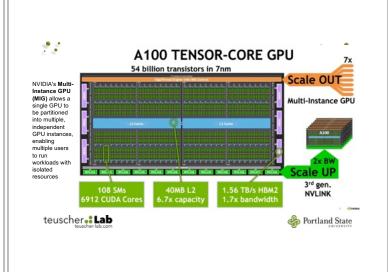
Pixel Fill-rate (Gigapixels/sec)	189.8	443.5	423.6
Texture Units	328	512	680
Texel Fill-rate (Gigatexels/sec)	555.96	1290.2	1636.76
L1 Data Cache/Shared Memory	10496 KB	16384 KB	21760 KB
LZ Cache Size	6144 KB	73728 KB	98304 KB
TGP (Total Graphics Power)	350 W	450 W	575 W
Manufacturing Process	Samsung 8 nm 8N NVIDIA Custom Process	TSMC 4nm 4N NVIDIA Custom Process	TSMC 4nm 4N NVIDIA Custon Process
PCI Express interface	Gen 4	Gen 4	Gen 5

TPC: Texture Processing Cluster
SM: Streaming Multiprocessor
RT: Ray Tracing

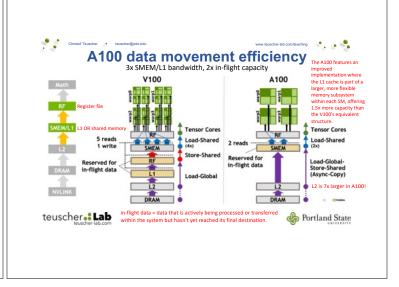
RT: Ray Tracing ROP: Render Output Unit

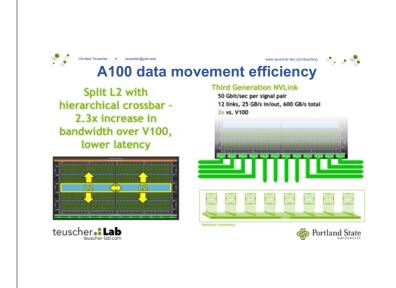




















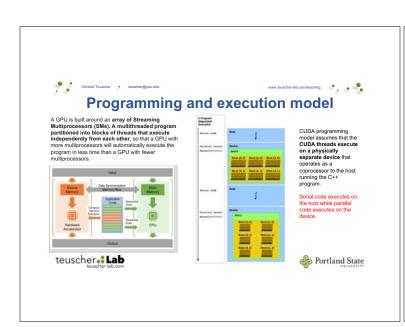
- CUDA (Compute Unified Device Architecture) is a parallel computing platform and programming model developed by NVIDIA.
- It enables developers to use NVIDIA graphics processing units (GPUs) for generalpurpose computing, a practice known as GPGPU (General-Purpose computing on Graphics Processing Units).
- CUDA programs to be written without knowing the exact hardware configuration in advance.

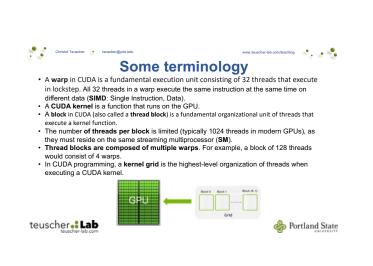


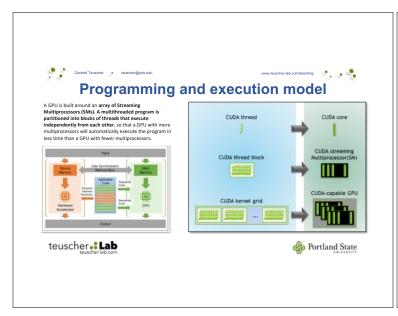
• Good resource: https://docs.nvidia.com/cuda/cuda-c-programming-guide

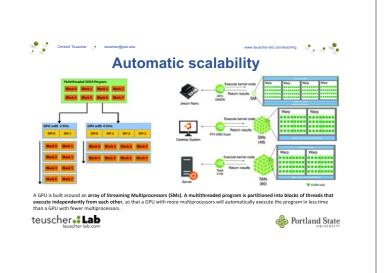
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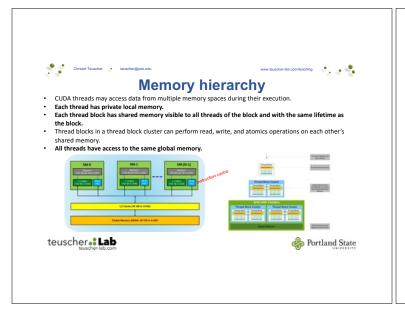


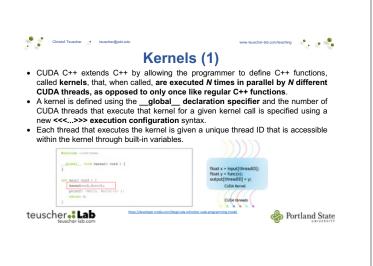


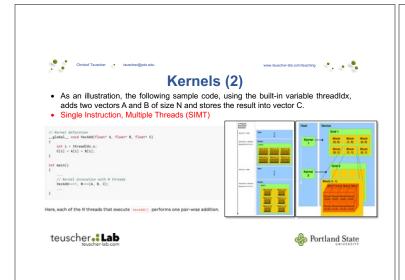


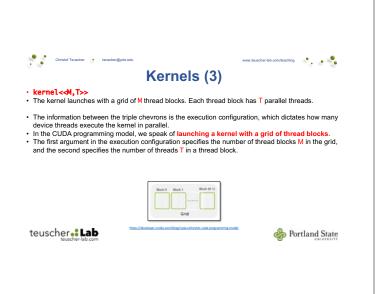


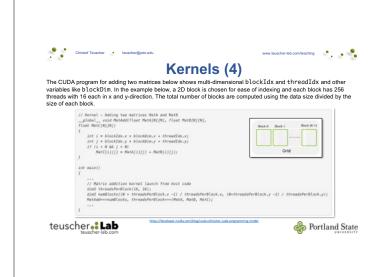


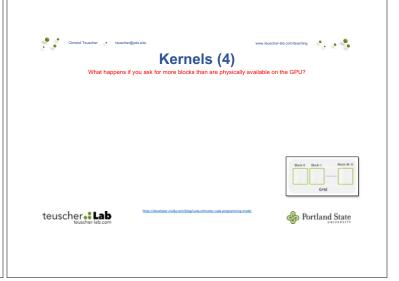


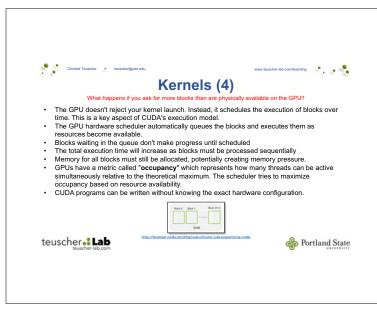




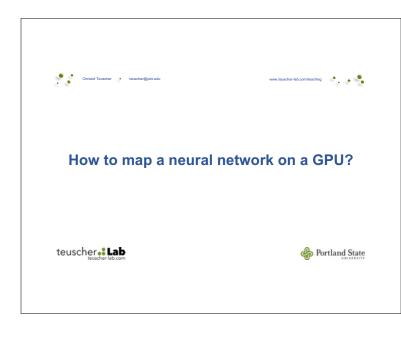


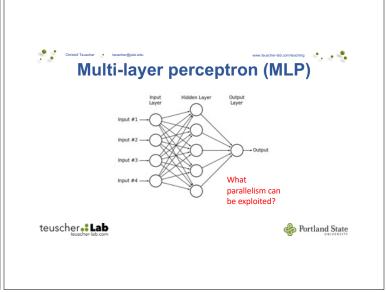


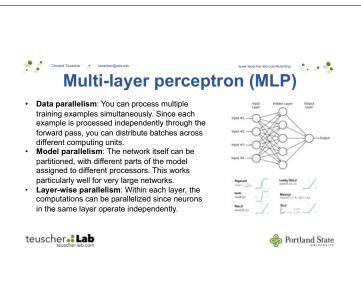


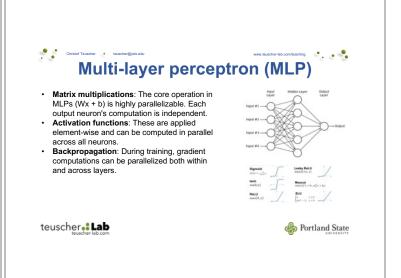


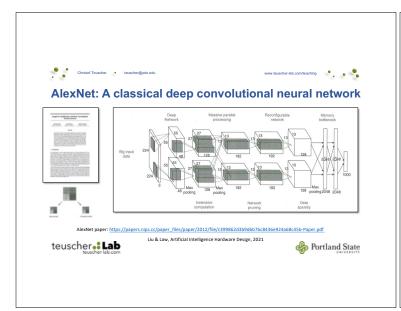


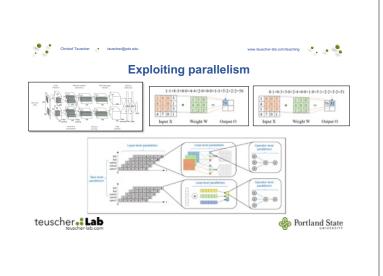


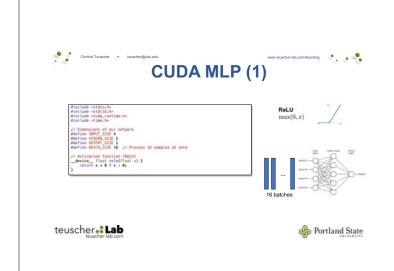




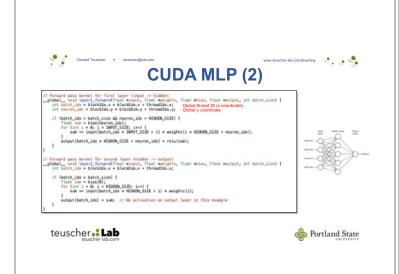


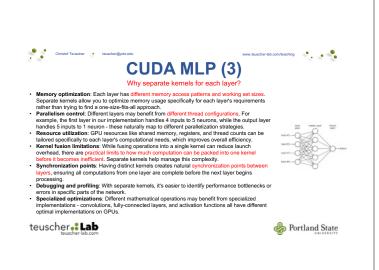














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