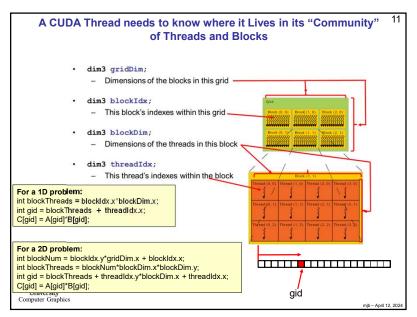


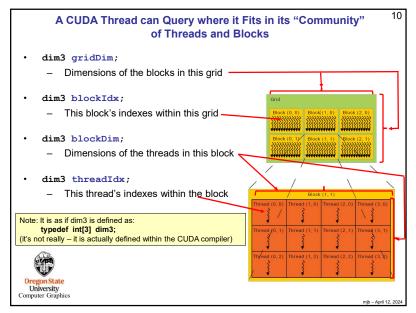
## 9 Thread Rules Each Thread has its own registers and private memory Each Block can use at most some maximum number of registers, divided equally among all Threads Threads can share local memory with the other Threads in the same Block Threads can synchronize with other Threads in the same Block Global and Constant memory is accessible by all Threads in all Blocks 192 or 256 are good numbers of Threads per Block (multiples of the Warp size)

9

Oregon State University

Computer Graphics





10

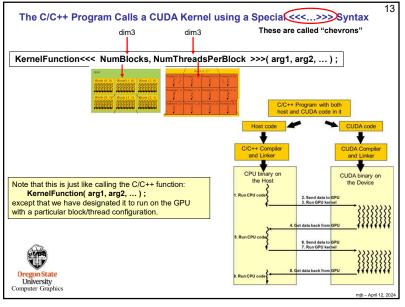
mib – April 12, 202

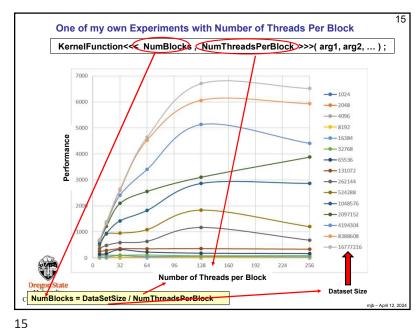
	Executed on the:	Only callable from the:
device float DeviceFunc()	GPU	GPU
globalvoid KernelFunc()	GPU	Host
hostfloat HostFunc()	Host	Host

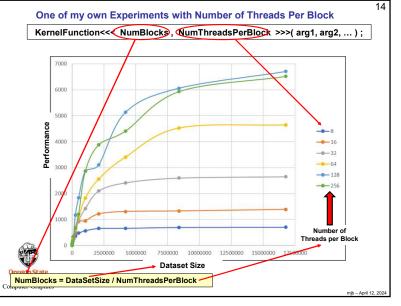


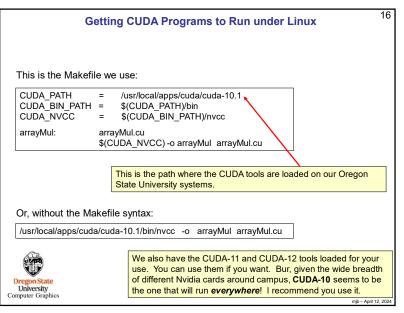


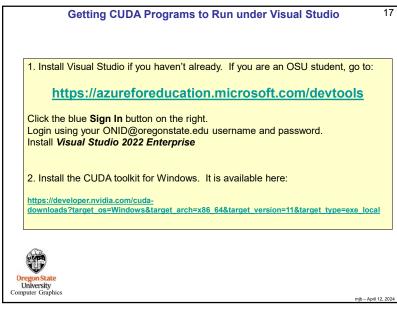
mib - April 12, 202



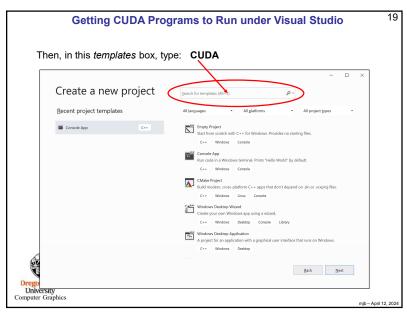


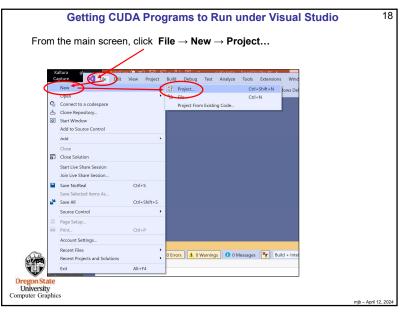


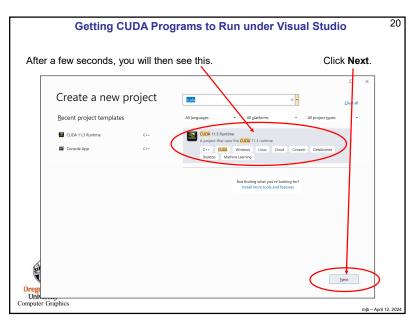




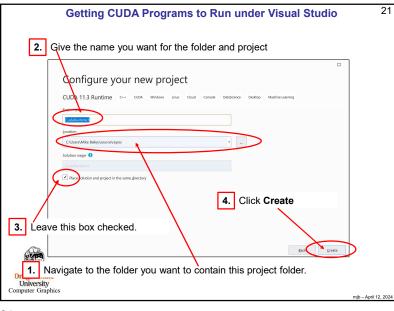


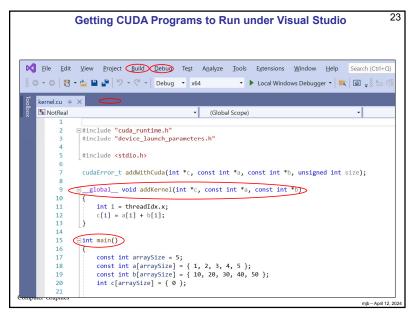


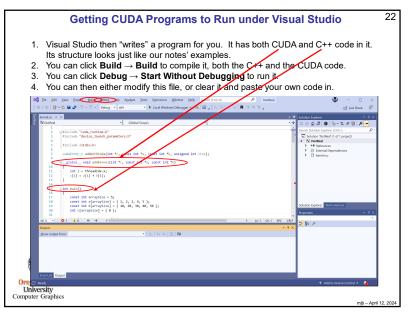












	Using CUDA and OpenMP Together
This is the Makefi	le we use on Linux:
CUDA_PATH CUDA_BIN_PATH CUDA_NVCC	
arrayMul:	arrayMul.cu \$(CUDA_NVCC) -o arrayMul arrayMul.cu -Xcompiler -fopenmp
Or, in Visual Studi	a/cuda-10.1/bin/nvcc -o arrayMul arrayMul.cu -Xcompiler -fopenmp 0:
,	ect menu $\rightarrow$ Project Properties
2. Change the se	et finefici $\rightarrow$ Project Properties $\rightarrow$ C/C++ $\rightarrow$ Language $\rightarrow$ port to <b>"Yes (/openmp)"</b>