27 Lezione martedì 7 maggio 2019 14:14 AGUDA M401 - rella madina * openCL by Gruhos to be provided as a strong NVIDIA AMD L CUDA différent from OpenCl because openCl and inside the program you can make calls and the library does all the things. Cuda is a longuage (extension of C++) because introduces VCC > Compiler

-- global -- nome of function ()

1. The ward beyond in front on fr some features. nvcc -> compiler <>< >>>> is tured to tell the compiler to execute the kernal code on apu. Example of cude code: le funtaire che sommo i due vettori mene defunita imettendo devonti alla defunctione be keyword __globol-. - les allacore la memoria nella GPU Cuda Mallac -> bu need to monege events that hoppens In the GPU. Example: un on vietre 2 events, start and stop before storling the thread and after the and we register the turns on this etrase these two events measures the excution time of the Kornel. the events are recorded on the GPU and sometimes we need to synchronise with CPU. Third. Cuda Device Synchronize () -> wait for GPC to funsh before accorning on fost MACCHINA POR CUDA 131. 112. 136.61 82 53 Solutione assignment 3 You need to Consider the neighbours of the 000 hade. Consider two motives I'm one motive and we Med from the other one. HSSignment 4 Implement a map Reduce object: Std:: function < Std:: pair < tout, + key, (Tin) > &(x) ___ Map function < 4, K) Std: function < tout (tout, tout) 7 function of given < y', k'> cy, k'> Conspute < y'', k'> Std:: vector < tin) L> return Std: Vector < std: pour < tout, Tray ?? Implement this in parcallel. You held to take into account that you are in shored memory.

V1: C++ V2: Fastflow