

Live Lecture Chat Window

Monday, April 25, 2022

14:53:45 GPUs run graphics faster than CPUs because they do matrix multiplication, right?

That's one of multiple things that make GPUs fast for graphics.

15:31:04 Is it possible for a desktop computer to run on a GPU instead of a CPU? That way, you don't have a CPU but you have a GPU instead.

I envision GPUs being very bad at running operating system code. But, your idea is still a good one. Nvidia builds some System-on-a-Chip cards by including an ARM CPU with their GPU.

15:33:54 I'm guessing that GPUs don't have SIMD instructions?

Interestingly, AMD GPUs do and Nvidia GPUs don't.

15:35:53 Intel Integrated GPUs have a GPU on the CPU? Like the ones on most laptops?

It's not so much a GPU *on* a CPU, it is a CPU and a GPU built *together* into the same chip.

15:38:14 I believe that the M1 chips is an integrated chip with CPU and GPU. Are there major differences between how M1 chips computes vs Nvidia or Intel integrated chips?

I wish I could get more information on the M1. Apple is not as forthcoming as Nvidia is.

15:40:46 Apple said their graph card has 32 cores, does the cores means the CUDA core ?

I'm guessing that this use of "core" means "Streaming Multiprocessor" in Nvidia-speak.