

Live Lecture Chat Window Wednesday, May 11, 2022

15:15:24 Is the closest comparison to what's happening on the last slide a mutex?

An OpenMP mutex is something special to threads that are sharing a common executable, but the purpose of a mutex and the use of OpenCL events is the same: "prevent bad things from happening because of timing".

15:37:36 Silly question but we weren't using FMA on project 4 correct?

Not a silly question at all. As we get into more and more of this, I find the lines between the different paradigms blurring. For example, you could now write a program that was using multiple cores, each with SIMD, and with some operations taking place on that machine's GPU, all at the same time. But, the answer to your question is, no, we were not using FMA in Project #4. You will in Project #6.

15:40:42 [In Project #4] Our y axis was supposed to be speedup correct?

Correct.

15:43:26 Does it matter if we run this on flip vs rabbit?

I remember running it on rabbit once and getting a seg fault, but it must be for other reasons. It runs fine on rabbit. Forget I said anything.

15:48:42 For the graphs, it says one curve only so does that mean we only graph either the multiply or multiply sum speedup?

One curve per test, i.e., one curve for $C=A*B$ speedup and one curve for $\text{sum}=\sum A*B$ speedup.

15:49:25 You can do two curves on one graph or one curve each for 2

Correct, we will accept either.