

Live Lecture Chat Window Wednesday, June 1, 2022

14:57:49 General question about course content: Will the course website remain live after the course ends, in case we want to go back & review in the future?

I leave *all* my class websites open to the world. The material does get updated every year though.

15:23:38 So if we're just grabbing peak mega or giga [for Project #7A performance]

Eyeball what seems to be an average value.

15:24:00 And you want us to keep just 1 local size for all runs? [in Project #7A]

Yes, use your hard-won GPU experience to pick a good local size.

15:24:04 It's so hard to eyeball it [Project #7A performance] when it changes so quick, lol. Any tips for how to get a reasonable estimate?

Hit the Pause Button a few times.

15:28:43 I was unable to run 7b on submit-c for 8 or more

Our class account has an 8-processor limit.

15:28:58 The Texas Advanced Computing Center [and other supercomputers] uses MPI for parallelism between multiple computers to get its fast speed, right?

Yes. Plus some fast speed from the GPU(s) attached to each of those multiple computers.

15:29:02 From Sean W to Everyone:

I ended up running [Project #7B] on rabbit without issue. It spat out results and everything. Was this incorrect?

Hmmm. I wonder if rabbit has accidentally been setup like a submit- machine. Wasn't supposed to be that way, but might have happened. Not sure if I should reveal this by reporting it just yet. 😊

15:40:39 I believe [the linear speedup in Project #7B] is because the computers don't have to talk to each other for the processing.

Correct. The Heat-program example would not have gotten such good performance acceleration because of the communicating it had to do between processors.

15:43:46 Will your future classes also have live lectures?

That is always the plan.

15:45:44 Just checking – Is this the last week for office hours?

I will do normal Thursday, Friday, and Sunday OHs this week [Week #10]. I *will* set OHs for Monday and Tuesday of Finals Week. I just haven't picked them yet.

15:48:53 Anyone having issues getting their particle colors to change after contact? on 7A

Be careful about accidentally having one *particles.cl* file in your Project Folder and a different *particles.cl* file in your Debug folder. Be careful that you are not editing one, but having your program use the other, thus ignoring your edits.

15:54:24 From Bailey, Mike to Everyone:

Here is a way to see if you are using the .cl file you think you are. Do the most dirt-simple color change you can possibly do:

```
color c = (float4)( 1., 0., 0., 1. );
```

```
dCol[gid] = c;
```

and see if it changes all the particles to red. CG equivalent of a printf...

15:59:42 Final confirmation, Final unlocks NEXT Wednesday, yes?

Not a Final, but Test #2. But, yes, Wednesday, June 8, at 00:01