12:00:58 From Ebert, Victoria to Everyone: Do we need to do both SimdMul and SimdMulSum, or just one or the other?

I meant to ask for both, but messed up and didn’t. So, you can pick one.

12:01:32 From Parsons, Zachary M to Everyone: Also, do we take out -O3 from both compiles?

Yes, don’t use -O3 at all.

12:03:30 From Zach Parsons to Everyone: Having it in the control but not in the assembly made the control’s performance way higher

I suspect that is because the optimizer realized that we were “computing for the sake of computing” and did us a big favor by eliminating some of the code.

12:04:21 From Gutzmann, Melanie to Everyone: I’m paranoid I’ve accidentally used bonus days without intending to

Any of you can email me and I will tell what your BD status is.

12:10:26 From Jacob Eckroth(He/him/his) to Everyone: Note that CUDA code calculates time in milliseconds. I was getting numbers that were way too low because of that

Good reminder!

12:21:13 From Lucian’s PC to Everyone: Should the probability be higher or lower than Pro 1?

Yes. Higher or lower, but not the same as in P1.

12:22:07 From James Taylor to Everyone: Do you want the timing code after we add up the num hits array?

Take the timing code before adding up the hhits[] array. Let’s isolate just the GPU portion.

12:22:20 From Zach Parsons to Everyone: So does CUDA not allow #defines?

12:23:10 From Zach Parsons to Everyone: Cause you mentioned passing in BLOCKSIZE rather than #defining it

The #define approach will work as well. My examples all use the -Dxxx=yyy approach.

12:23:10 From Seki, Akiri to Everyone: What is going to happen if the NUMTRIALS is extremely large and exceed the number of GPU cores?

CUDA will let you know with a nasty message.

12:50:21 From Pemberton, Jordan E to Everyone: Do Event Markers block like a barrier too?

No. Because they can throw an event, they will return right away and make you check on them.
13:14:12 From Ryan Yamase to Everyone: For the SIMD with multi-thread, why did we have to split the array ourselves? I tried adding a #pragma OMP parallel for inside the SimdMul function instead and it didn't like that...

We could have used a #pragma omp parallel for, but then we would have had to mess with the chunksize to be sure that SimdMul was given contiguous array elements.

14:01:53 From Huy Trieu to Everyone: Is it possible to run the bash and get it as a CSV?

Yes. Put commas between the numbers you print and then in your script say:

    #SBATCH -e matrixmul.csv

(assuming that your output is going to standard error).