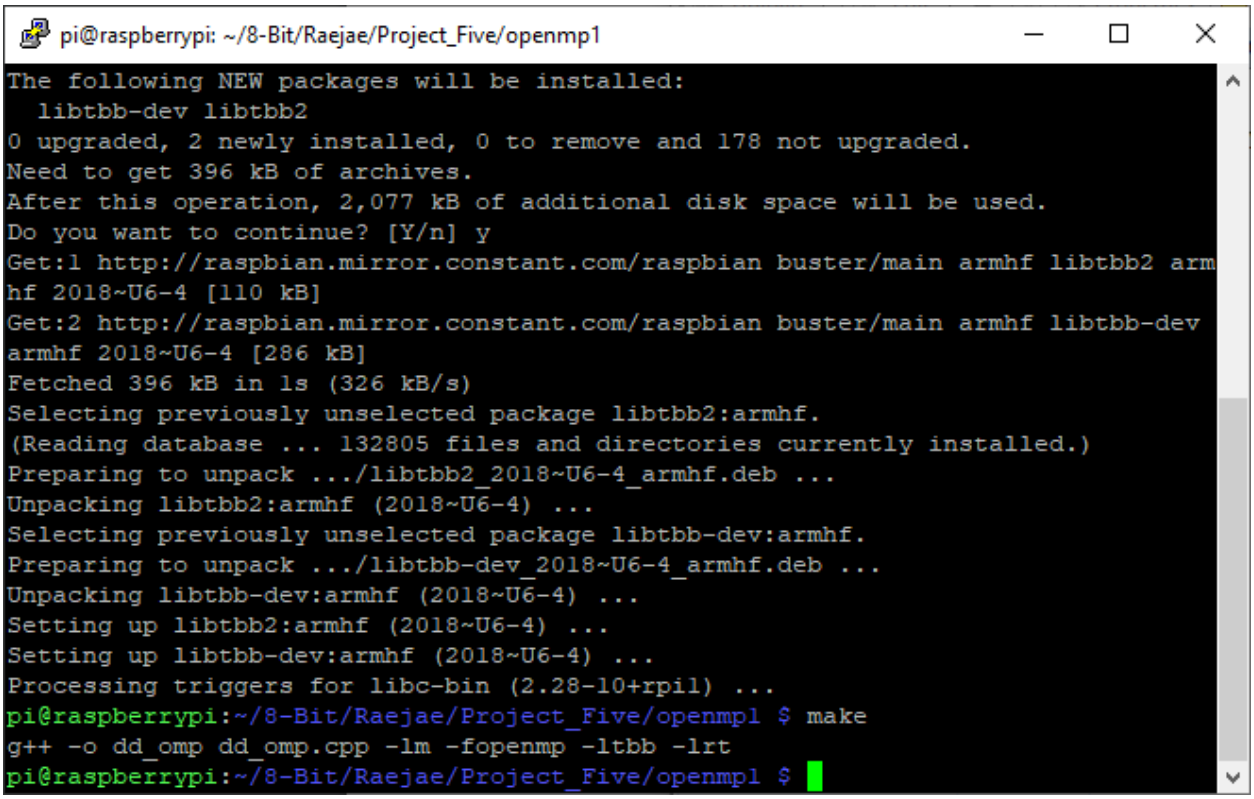
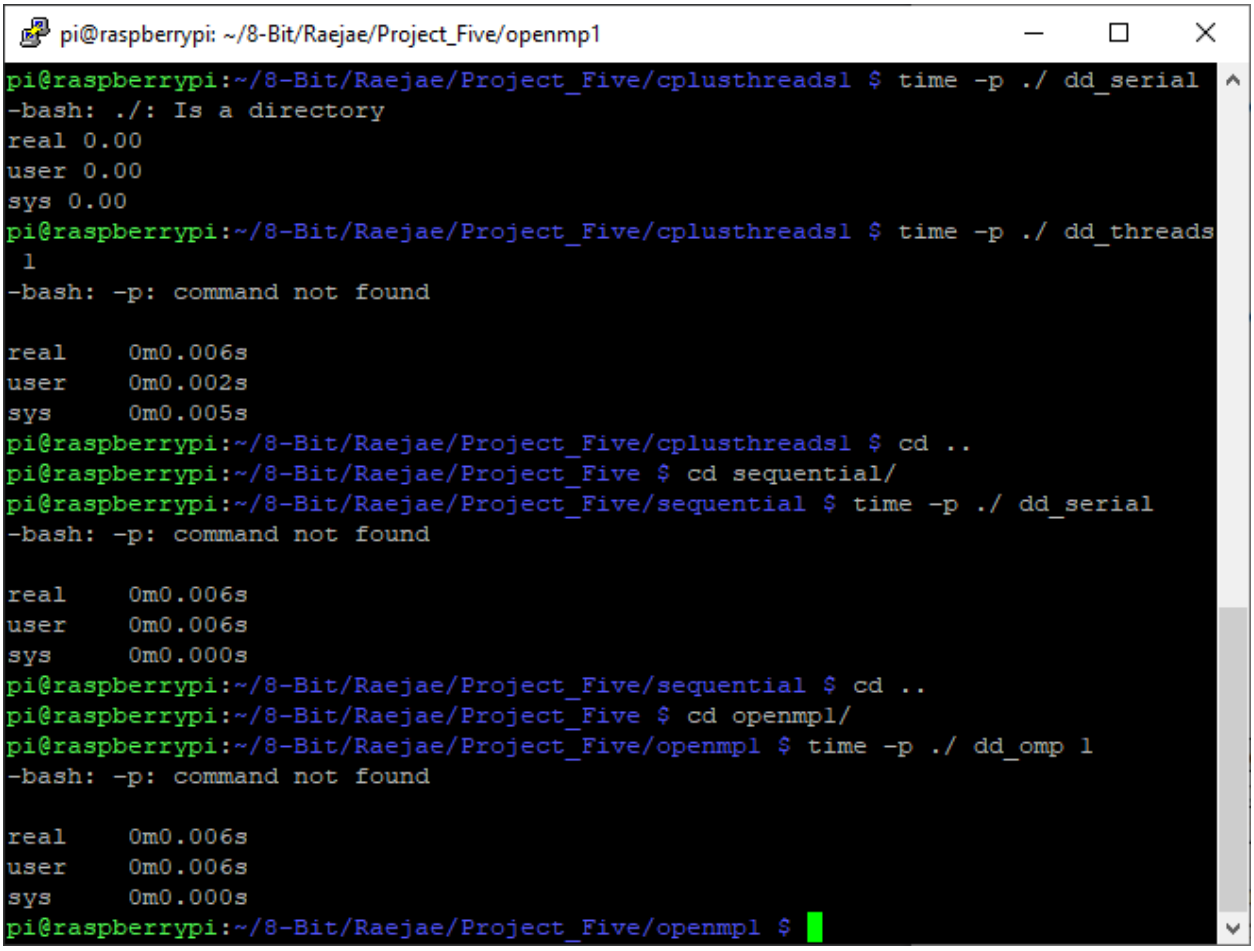
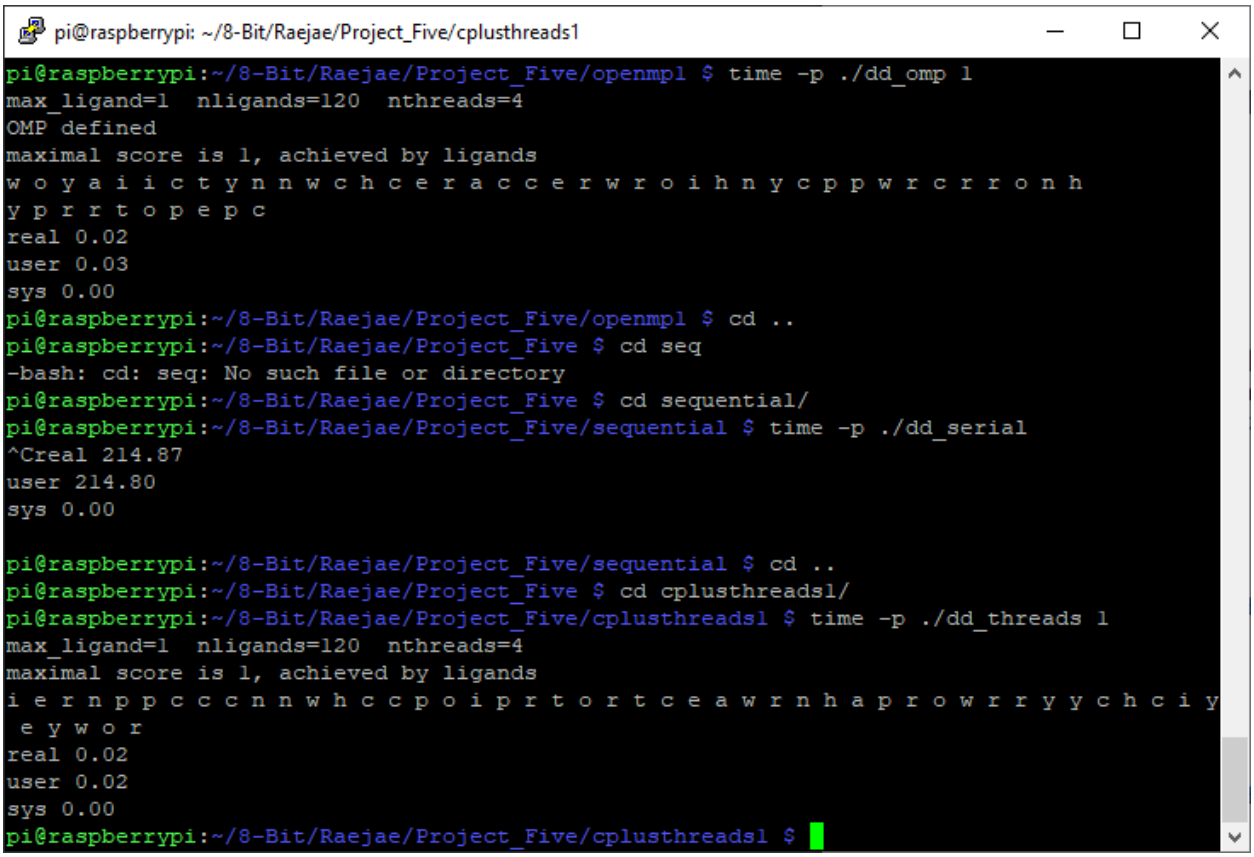


If my pictures look different. This stage of the project I decided to get a little investigative (I know late) I was curious on what SSH really was, and while playing around with it I found I could connect to PI from PC, and edit files the same, and then I could use WinSCP to transfer files. It was really helpful as transferring the files in such a manner initially seemed rather daunting. However this moment here was a moment that finally made everything sail smooth again. After compiling sequential properly I was expecting the same for OpenMp and Threads; however, I received bugs on both of them. I did a little searching and found out that I basically didn't have to library installed so after installing it to the PI I could compile properly! The above code it installing LITBTBB2

Everything went smoothly shortly after. While I followed instructions



Well. . . I lied when I said smooth sailing. The first mistake I made was obviously running the command for a directory outside of the one I was in. While that was questionable, I did get a little better.



Implementation	Time(s)
dd_serial	214.87
dd_omp	0.02
dd_threads	0.02

For serial it never fully went through however I tried it a couple of times, and it always seemed to land on 215. I'm guessing it's slower since it doesn't engage parallel processing.

Implementation	Time(s) 2 Threads	Time(s) 3 Threads	Time(s) 4 Threads
dd_omp	0.02	0.04	0.35
dd_threads	0.02	0.05	0.16

2.3 Discussion Questions

1. Which approach is the fastest?

Using the thread solutions was the fastest.

2. Determine the number of lines in each file (use wc -l). How does the C++11 implementation compare to the OpenMP implementations?

Sequential Lines: 170

OpenMP Lines: 192

C++11 Lines: 207

3. Increase the number of threads to 5 threads. What is the run time for each?

OpenMP Real Time : 2.02

C++ Real Time: 1.47

4. Increase the maximum ligand length to 7, and rerun each program. What is the run

time for each?

OpenMP Time capped out at 127.16

C++11 Time capped out at 81.79