

Week 3 Progress

Recreating the algorithm for Over 100x Faster Bootstrapping in Fully Homomorphic Encryption through Memory-centric Optimization with GPUs. In this paper they used HEAAN algorithm as the base algorithm.

Main Challenge:

Last week I have been trying to make use of available gpu I have , and its outdated and the solution was to find another one ,while waiting for the new gpu , I have meet challenges in the paper and the equations. The author combined lot of algorithm and the next thing for me is to make use of internet to understand this equations fast.

Solution:

- The solution I have figured out is Radeon RX 570 series.
- Using internet to get more knowledge on the equations while waiting for the new GPU.

Next week 4

The new GPU will be in school in on Wednesday and I will run the codes and record the results. On the mean time I am reading papers from Dr June Hee Cheon and Dr Yong Seung Cho relating to FPGA's.