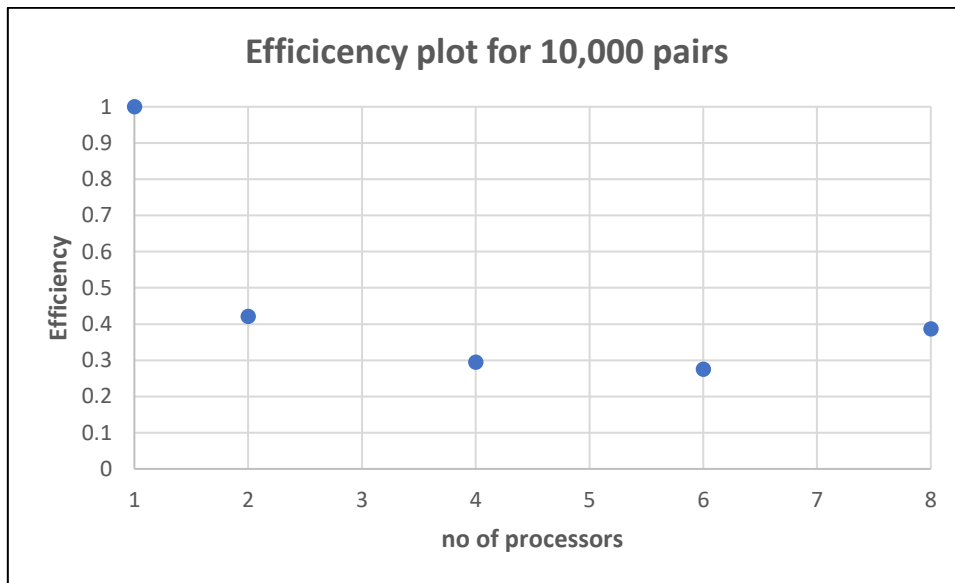


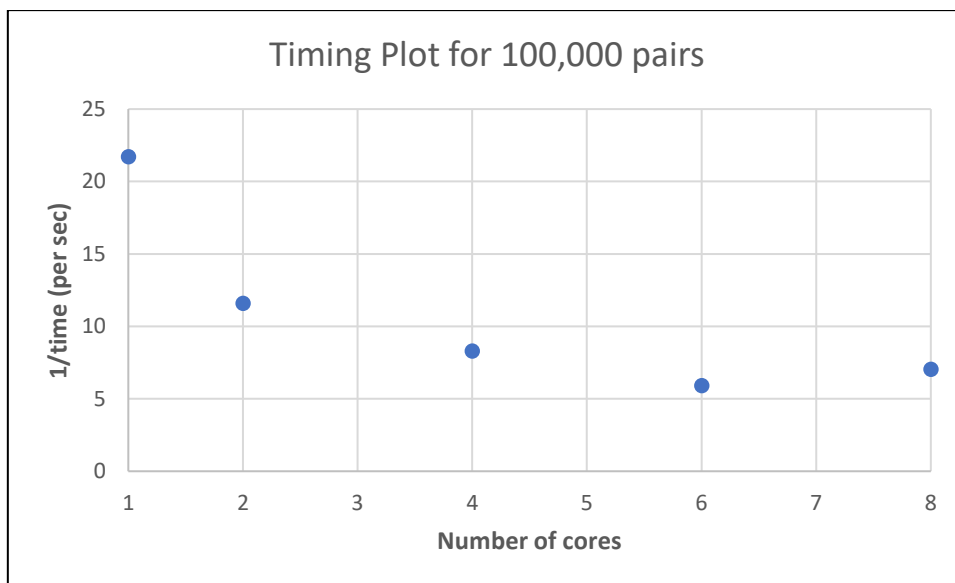
Analysis Report

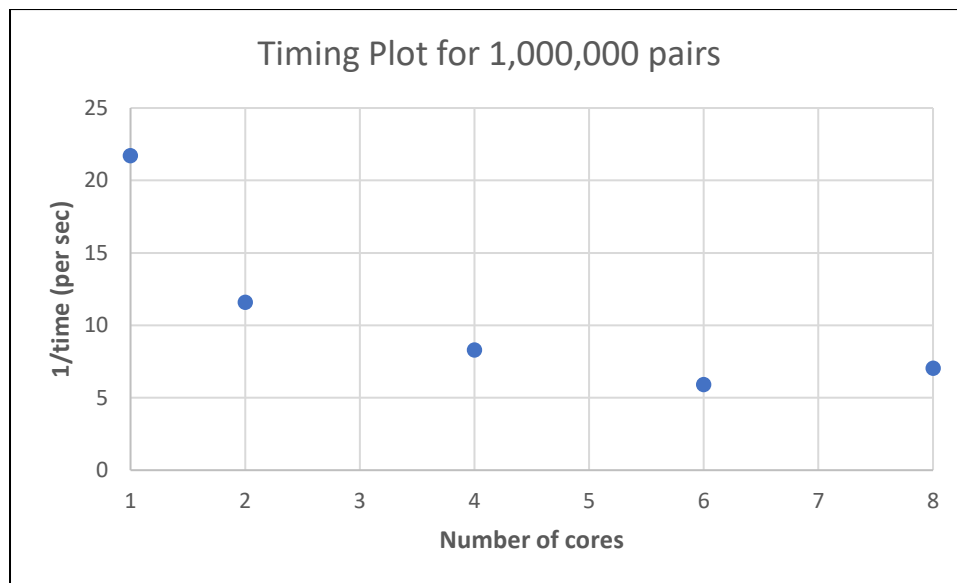
Two codes were successfully written and posted on the github page, that is, both the basic and advanced part. The advanced code was run on the HPC, cx1 and the plots below were generated from the timing data. The efficiency was calculated using the formula;

$$E = \frac{\text{Time on 1 CPU}}{\text{Time on "n" CPU} \times n}$$



The efficiency plot for bigger job sizes is similar to the plot above.





The timing plots show there is little effect of parallelising the job, as the gcd algorithm is relatively simple and fast enough to be executed quickly on a single CPU.