

COL867: ASSIGNMENT 1 Report

Simulation of P2P Cryptocurrency Network

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We created a simulator for cryptocurrency network in C++ following the instructions described in the assignment. The simulator works as follows:

- There is a queue of events sorted by time at which the events are supposed to occur. The simulator takes the event at the front of the queue and executes it.
- Once an event is executed, it may create new events which are added to the queue at appropriate positions.

Since each node continuously creates transactions, to end the program, we have defined a limit on number of events to be executed.