The objective of IPRO 313 is to create a high performance data ticker system. Ideally, the data ticker plant has to have a sustained optimal throughput of three million price quotes per second - the current industry state of the art - and minimize with minimal latency while maintain specific constraints.

**PROBLEMS**

In this day and age the demand for information to be sent over long distances between buyers and sellers during a very short period of time has increased tremendously with the quote volume doubling every year, this leads to problems such as overload of the system as a whole and in more technical terms bandwidth not keeping up with the volume at a particular instance in time and there is high latency.

**OBJECTIVES**

- Explore competitors’ solutions & technologies
- Develop a functioning ticker plant system
- Research methods & algorithm to be used
- Improve system performance
- Determine hardware requirements
- Update the technical user manual
- Create a website contain all information regarding this project

**ACCOMPLISHMENTS:**

- The team has successfully developed a base system capable of processing actual market data as well as handling multiple clients.

- Client can be ran independently or embedded in a webpage.

- Tested hashing algorithms include CRC 32, CRC 32PH, FNV Hash, OneAtATime Hash, SuperFast Hash, Adler, Bob-Jenkins, Alpha num and other widely used hashing algorithms.

**SOLUTION**