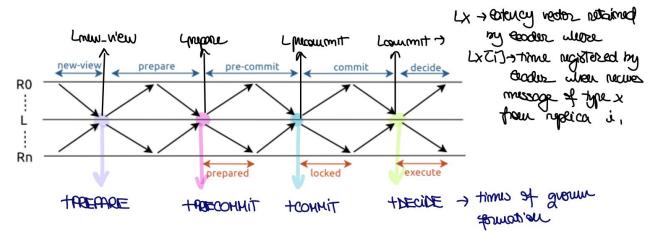
# CSE3000 Weekly Progress Presentation

WEEK 4
Diana Micloiu

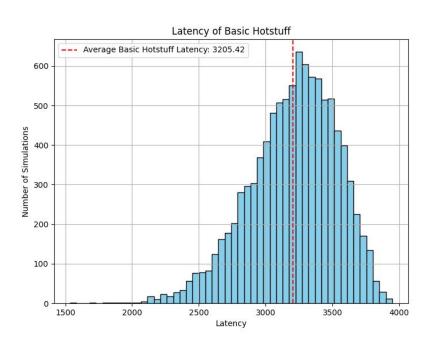
What have I done so far?

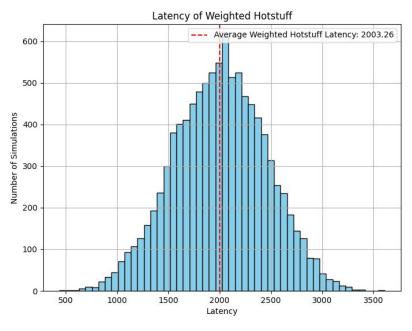
#### **Progress on Hotstuff**



FINAL TIME OF ONE VIEW -> (HPREPARE + + PRECOMMIT + + COMMIT + + DECIDE)

### **Progress on Hotstuff**

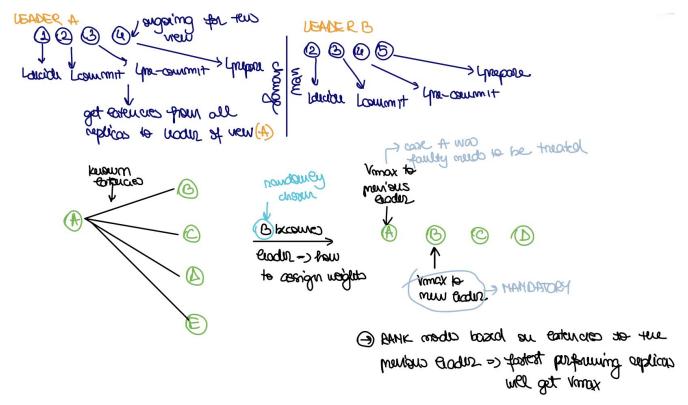




#### **Progress on Hotstuff**

```
----- EXPERIMENT 4 ------
Basic Hotstuff yields latency of 2685.
Weighted Hotstuff yields latency of 1734.
The performance of the simulated annealing weighted assignment for the given network setup:
----- Simulated annealing
Configurations examined: 1160 time needed: 0.013400077819824219
Final solution latency: 916
Best Configuration: R_max: [0, 4], weight: 2.0 | R_min: [1, 2, 3], weight: 1 with leader 0
initTemp:120 finalTemp:0.19986405762345374
coolingRate: 0.0055 threshold: 0.2 jumps: 75
```

#### **Progress on Chained Hotstuff**



#### **Progress on Chained Hotstuff**

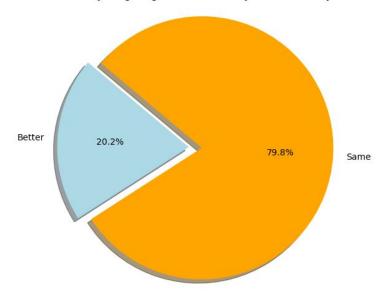
We perform Chained Hotstuff using 10000 simulations of the protocol, using 10 views.

Average latency of Basic Chained Hotstuff: 13575.050500000003

Average latency of Weighted Chained Hotstuff - randomly assigned weights: 6778.426199999996

#### Progress on Generalised Weighted Voting on AWARE

Generalised vs Binary weighting in AWARE - Analysis on Recovery Performance



What is next?

#### Goals for the week onwards

- 1. Finalised draft of **Contribution** section.
- 2. Weighted voting limitation exploration.
- 3. Hotstuff and Chained Hotstuff experiments.
- 4. Midterm presentation.

## **My Questions**