CSE3000 Weekly Progress Presentation

WEEK 6

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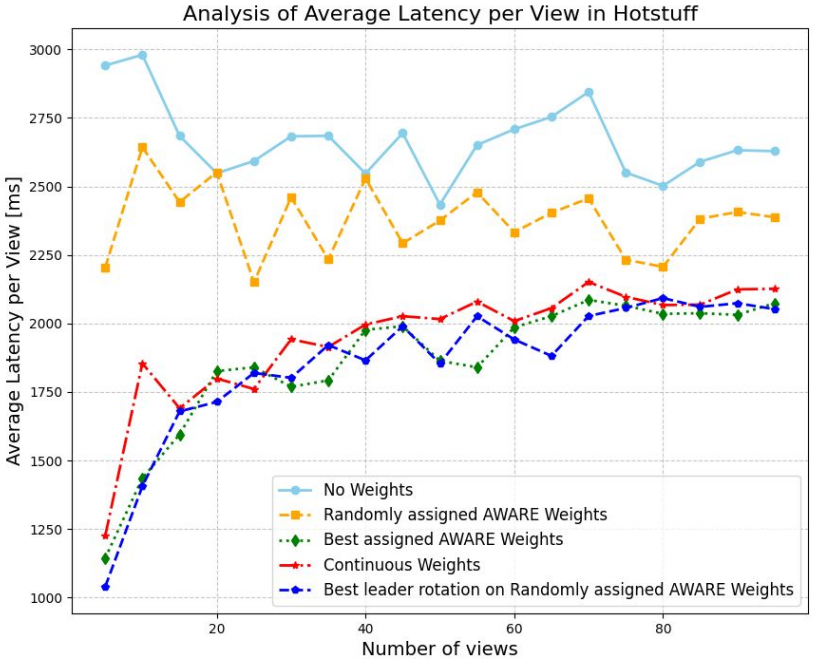
What have I done so far?

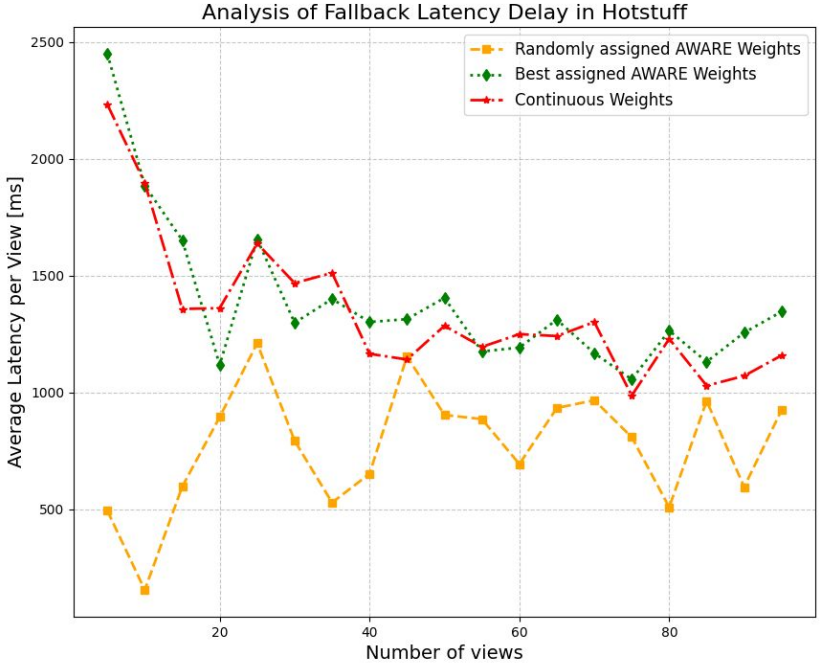
Progress on Hotstuff

- Basic Hotstuff implementation with the following behaviours
  - “basic” - all weights are 1
  - “weighted” - randomly assigned AWARE weights Vmax/Vmin
  - “best” - Simulated Annealing (SA) for optimising the distribution scheme of AWARE weights Vmax/Vmin
  - “optimalLeader” - SA for optimising leader rotation
  - “continuous” - SA for optimising use of continuous weights
- Analysis on Latency over multiple views
- Analysis on Fallback Latency Gain over multiple views

Obs! Now, we work with the same weight assignment over a Hotstuff run.

Progress on Hotstuff



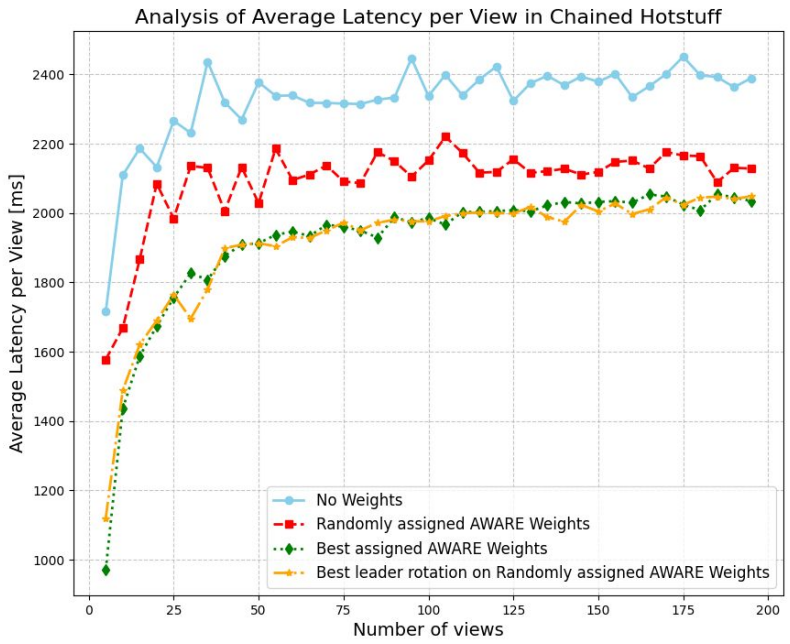


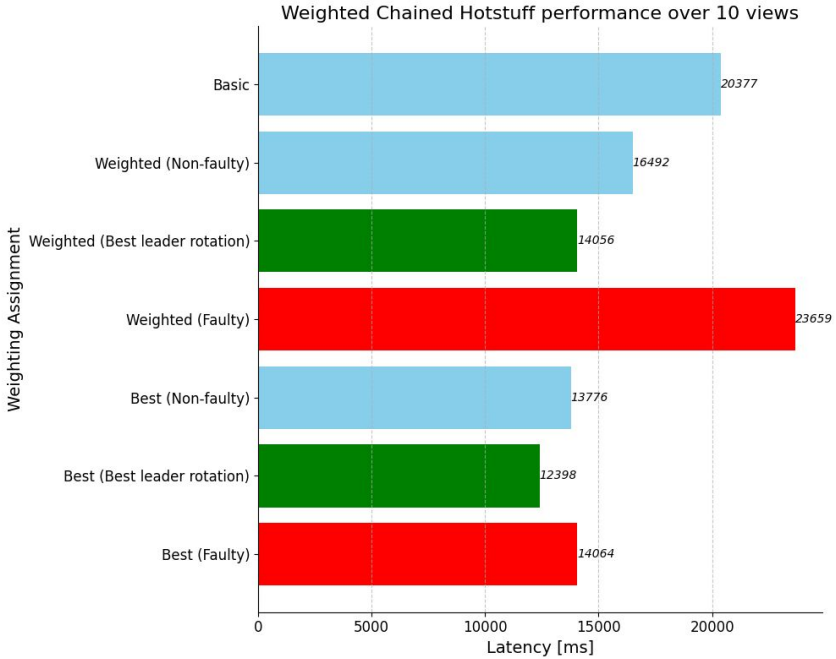
Progress on Chained Hotstuff

- ➔ Implementation under the following possible behaviors:
  - ◆ “basic” - all weights are 1
  - ◆ “weighted” - randomly assigned AWARE weights Vmax/Vmin view (binary weights Vmax/Vmin)
  - ◆ “best” - Simulated Annealing (SA) for optimising the distribution scheme of AWARE weights Vmax/Vmin
  - ◆ “optimalLeader” - SA for optimising leader rotation
- ➔ Analysis on Latency over multiple views, including Faulty and Non-Faulty behaviour

Obs! Now, we work with the same weight assignment over a Chained Hotstuff run.

Progress on Chained Hotstuff





What is next?

Goals for the week onwards

1. Finish experiments
2. Gather all data in final graphical illustrations
3. Write Paper

My Questions