**Meeting Notes 22-03-2022**

Progress update:

* Start docker containers from code
* Recreated UNL configuration from ripple security paper. 40% overlap of average UNL size is correct
* Implemented message dropping after threshold delay
* Background chapter

Difference between causal dependency and general dependency.

Dependence in general, reorder dependent event -> different execution.

Reorder independent events are traces.

Use fundamental DS model from here: [**https://cs4405.github.io/slides/lecture-11-2.pdf**](https://cs4405.github.io/slides/lecture-11-2.pdf)

Events as triples as we’re only interested in message receive events.

pBFT blockchains

Name HyperLedger, TenderMint, because we name pBFT.

Concurrency bugs papers

* Take one of the latest paper, “consensus implementations”. “Learning-based concurrency control testing” read abstract.
* Categorize lots of papers. Message reorderings and fault injection. Network faults and process faults.
* All tests they generate are independent, not search-based, except latest Microsoft paper. [**https://www.microsoft.com/en-us/research/publication/learning-based-controlled-concurrency-testing/**](https://www.microsoft.com/en-us/research/publication/learning-based-controlled-concurrency-testing/) Check related work of this.
* DPOR only use for demonstrating testing different execution using traces. [**https://dl.acm.org/doi/10.1145/1040305.1040315**](https://dl.acm.org/doi/10.1145/1040305.1040315) Use this as first intro to DPOR if I want to include in thesis
* [**https://link.springer.com/chapter/10.1007/978-3-642-30793-5\_14**](https://link.springer.com/chapter/10.1007/978-3-642-30793-5_14) Distributed systems DPOR paper.