Experiment List

1. Throughput [how many txns getting accepted or rejected in a given time] vs Transactions without retries
    a. Measure the average time taken for a transaction to commit or abort.
    X-axis - Transactions: 1000 to 5000
    Y-axis - Average Time taken for a transaction to commit
    Dependency: 40%
    # of threads: 32

    b. Measure the reject rate per transaction
    X-axis - Transactions: 1000 to 5000
    Y-axis - Number of times a transaction is rejected before it is committed
    Dependency: 40%
    # of threads: 32

2. Response Time [for 1 txn, what is total time taken for it to go from client to committer] vs Transactions without retries
    a. Measure the overall average response time taken for a transaction to commit or abort.
    X-axis - Transactions: 1000 to 5000
    Y-axis - Overall Average Response Time taken for a transaction to commit or abort
    Dependency: 40%
    # of threads: 32

    b. Measure the commit response time taken for a transaction.
    X-axis - Transactions: 1000 to 5000
    Y-axis - Overall Average Response Time taken for a transaction to commit or abort
    Dependency: 40%
    # of threads: 32

    c. Measure the abort response time taken for a transaction to commit or abort.
    X-axis - Transactions: 1000 to 5000
    Y-axis - Overall Average Response Time taken for a transaction to commit or abort
    Dependency: 40%
    # of threads: 32

3. Time vs Dependency
    a. Measure the average time taken for a transaction to commit

X-axis - Dependency: 0% to 50%
Y-axis - Average Time taken for a transaction to commit
# of transactions: 1000
# of threads: 32

b. Measure the reject rate per transaction
X-axis - Dependency: 0% to 50%
Y-axis - Number of times a transaction is rejected before it is committed
# of transactions: 1000
# of threads: 32

4. Time vs Threads
    a. Measure the average time taken for a transaction to commit
    X-axis - Threads: 1 to 32 in the powers of 2
    Y-axis - Average Time taken for a transaction to commit
    # of transactions: 1000
    # of threads: 32
    Dependency: 40%

    b. Measure the reject rate per transaction
    X-axis - Threads: 1 to 32 in the powers of 2
    Y-axis - Number of times a transaction is rejected before it is committed
    # of transactions: 1000
    # of threads: 32
    Dependency: 40%

5. Transactions Vs Throughput of Endorser
    X-axis - Transaction Load
    Y-axis - Throughput

6. Time vs Transactions with retries - Maybe Later
    a. Measure the average time taken for a transaction to commit
    X-axis - Transactions: 1000 to 5000
    Y-axis - Average Time taken for a transaction to commit
    Dependency: 40%
    # of threads: 32

    b. Measure the reject rate per transaction
    X-axis - Transactions: 1000 to 5000
    Y-axis - Number of times a transaction is rejected before it is committed
    Dependency: 40%
    # of threads: 32

Curves: Original vs Proposed Fabric,