

Introduction to Blockchain

Assignment-2

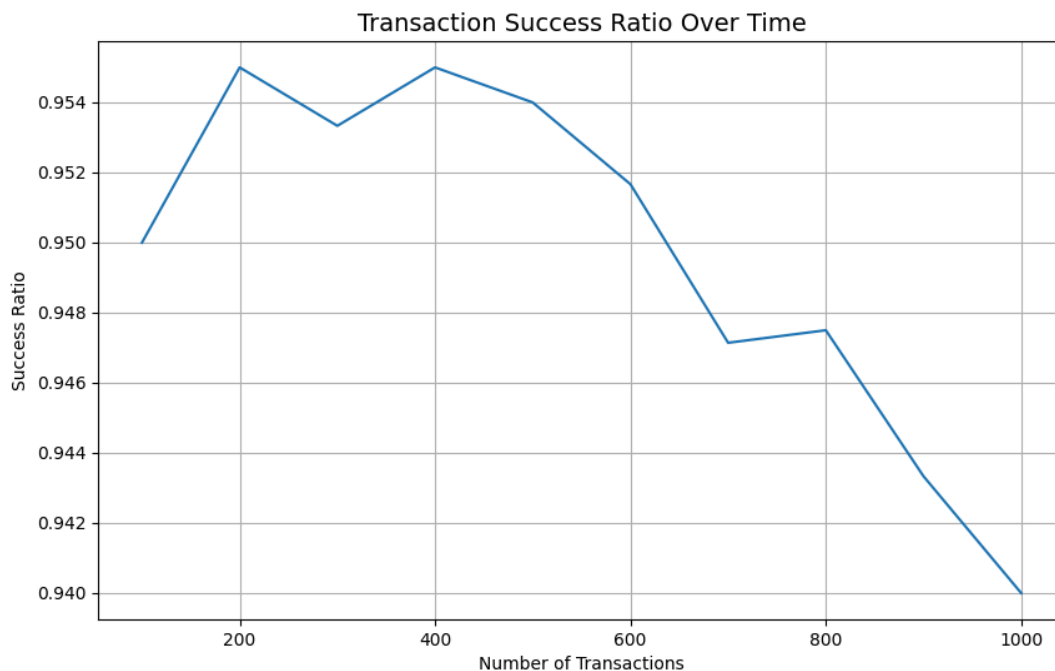
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Here are my findings when I ran the experiment for an increased number of transactions for the same number of users.

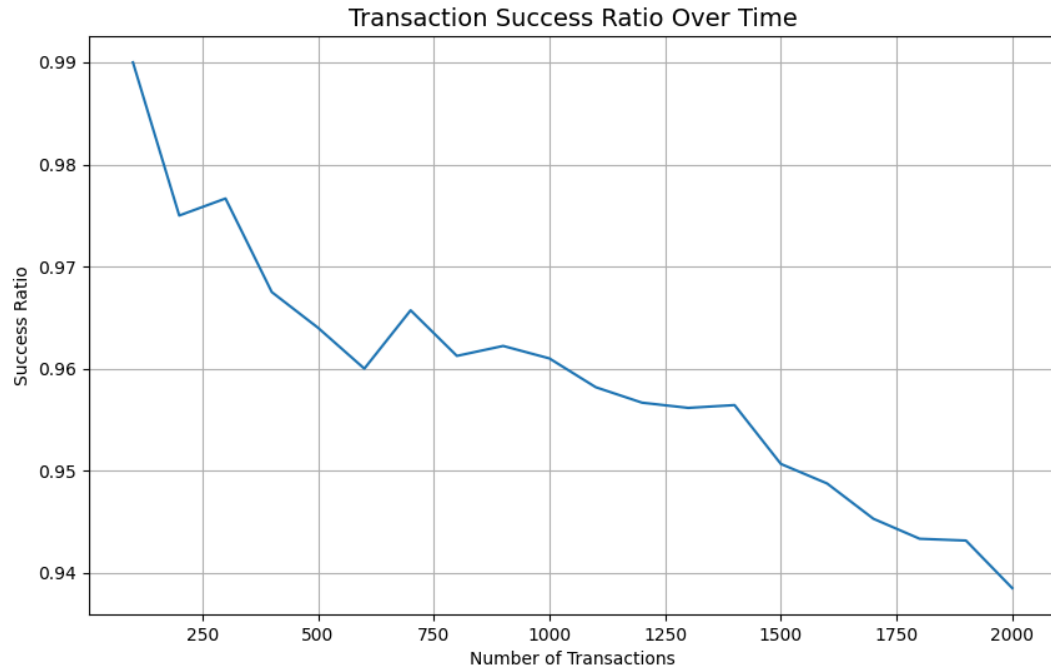
As we went from $n = 1000$ to $n = 20,000$ the amount of successful transactions decreased because the network followed power law distribution.

Here're the graphs:

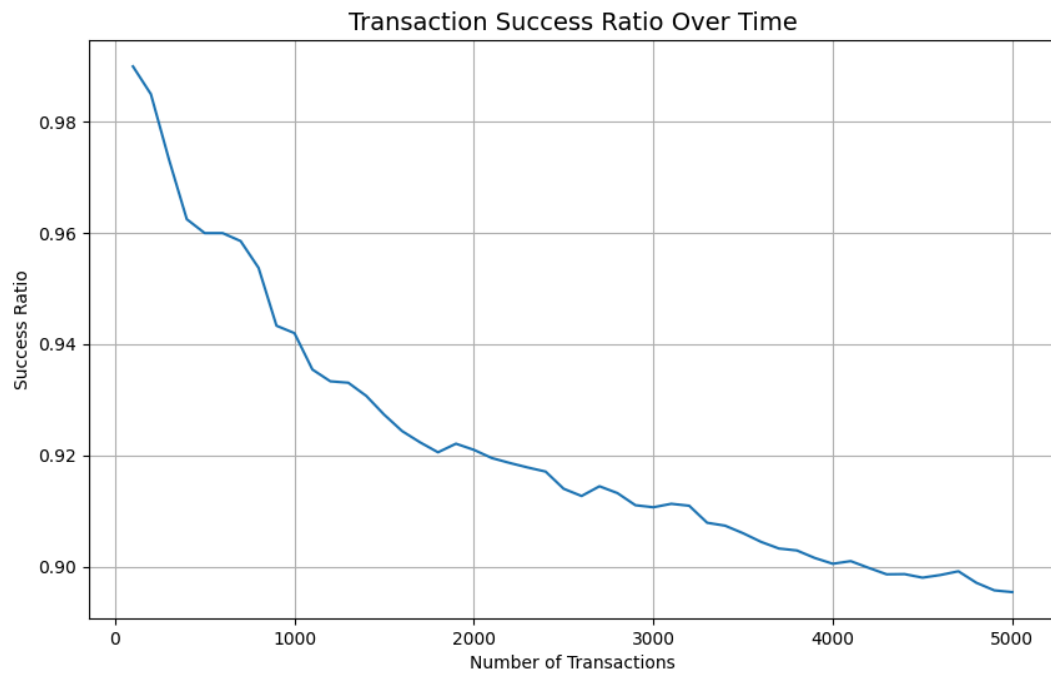
1. Total #transactions = 1000, success rate graph:



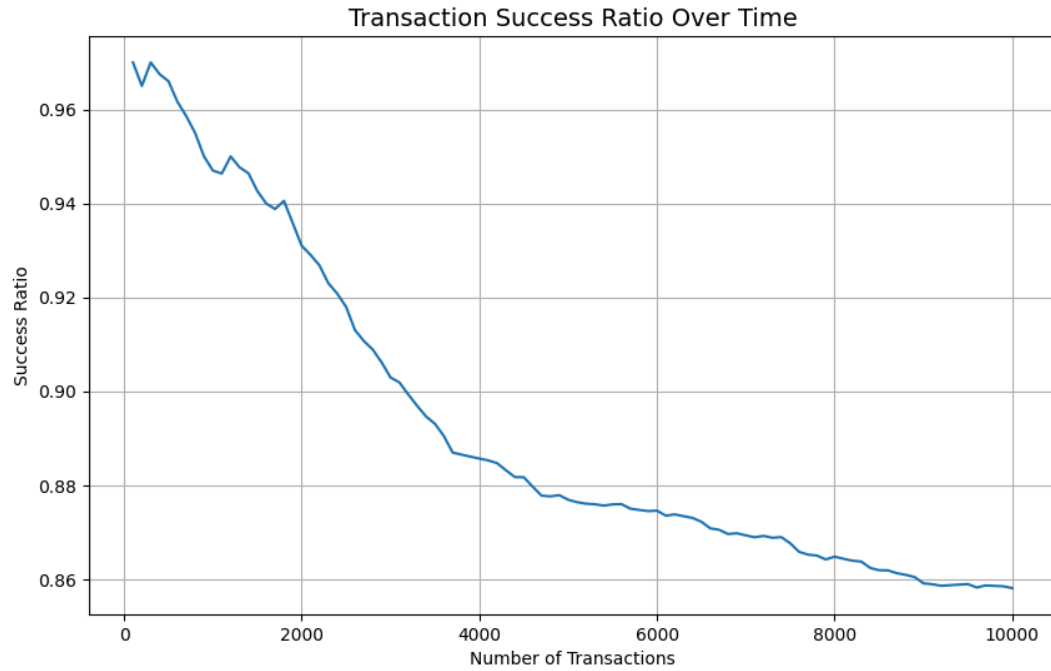
2. Total #transactions = 2000, success rate graph:



3. Total #transactions = 5000, success rate graph:



4. Total #transactions = 10000, success rate graph:



5. Total #transactions = 20000, success rate graph:

