

Dear Editors,

We would like to submit the enclosed manuscript entitled "Client-Driven Performance Model of Hyperledger Fabric Blockchain via Phase Decomposition".

The main contributions of this manuscript are as follows:

- 1) We propose a client-driven measurement framework to decompose each phase in Hyperledger Fabric.
- 2) We evaluate the performance of the Hyperledger Fabric and have some interesting observations, e.g., the communication latencies between the client and service are significant. In the worst case, the waiting time would dominate a transaction's latency in the order phase when encountering unfit block-setting parameters.
- 3) We model each decomposition phase of Hyperledger Fabric, including latency and throughput, and validate the performance model in two different clusters.
- 4) We apply the performance model and propose a strategy to reduce waiting time when it dominates transaction latency in the order phase under unfit block-setting parameters.

We sincerely appreciate your consideration of our manuscript, and we look forward to receiving comments from the reviewers. Please get in touch with us if you have any questions. Thank you!

Best regards,
Xiaowen Chu,
Professor,
Data Science and Analytics Thrust, Information Hub,
The Hong Kong University of Science and Technology (Guangzhou)