Seahorse

Efficiently Mixing Encrypted and Normal Transactions

MEV

- On fast blockchains?
- On DAG-Based systems?

MEV: exciting stuff

BREAKING !! @ShioLabs proved guilty of introducing sandwitch

attacks on Sui

Byzantine Fault Tolerance



Byzantine Fault Tolerance

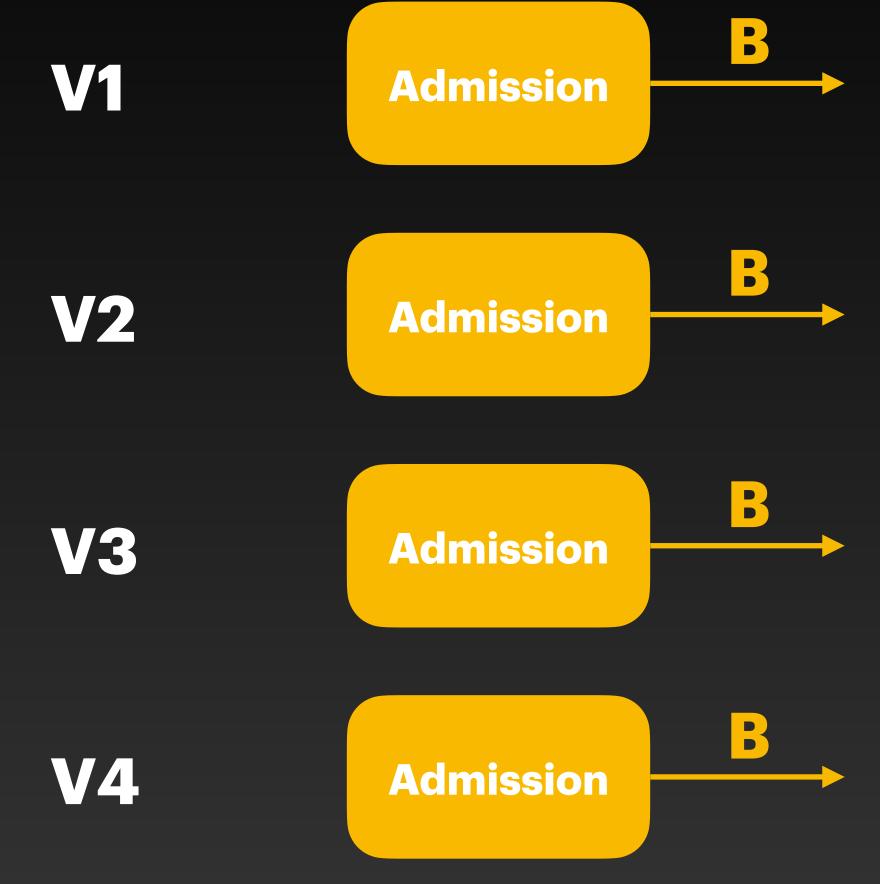


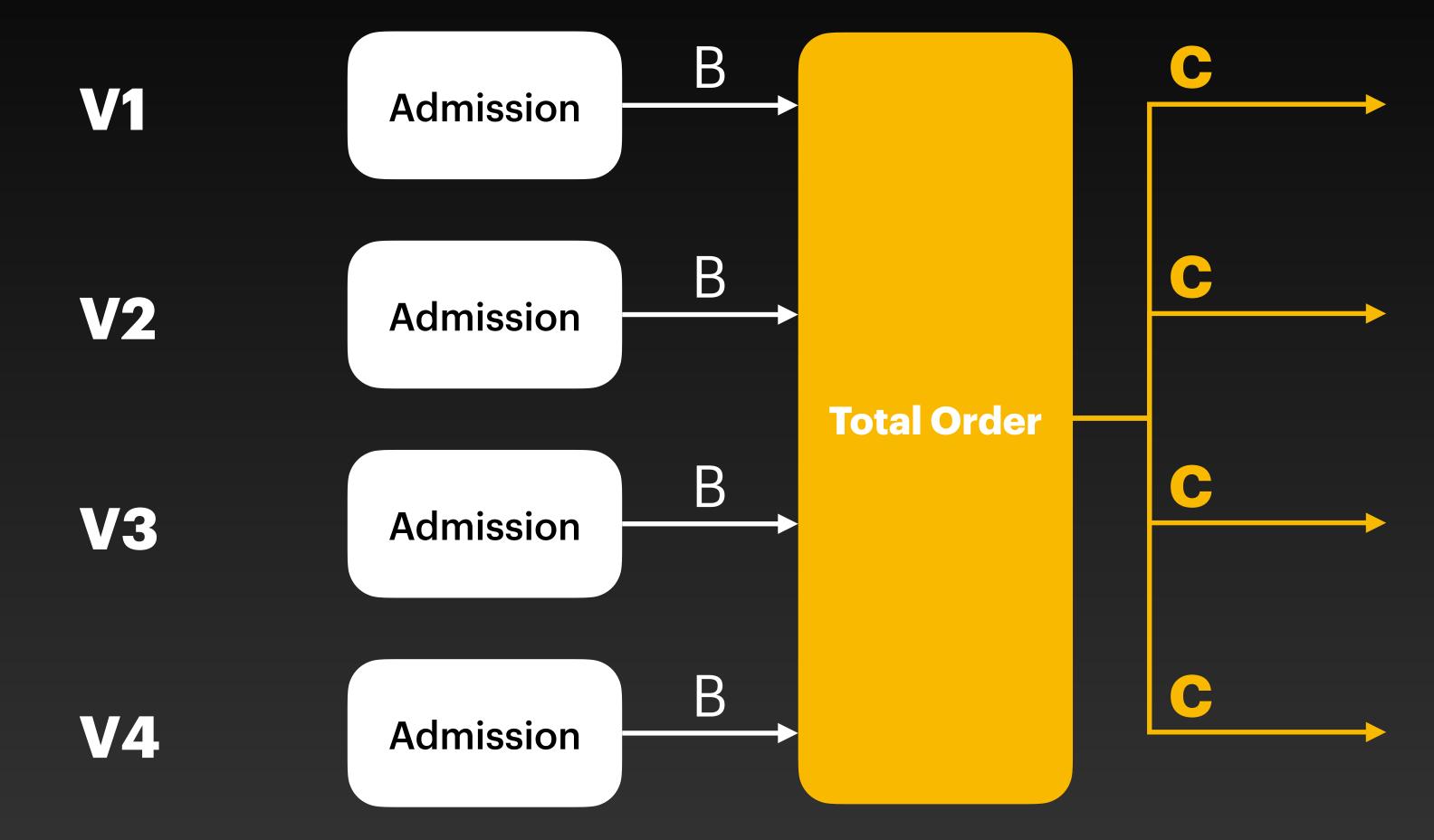
Delay Duration

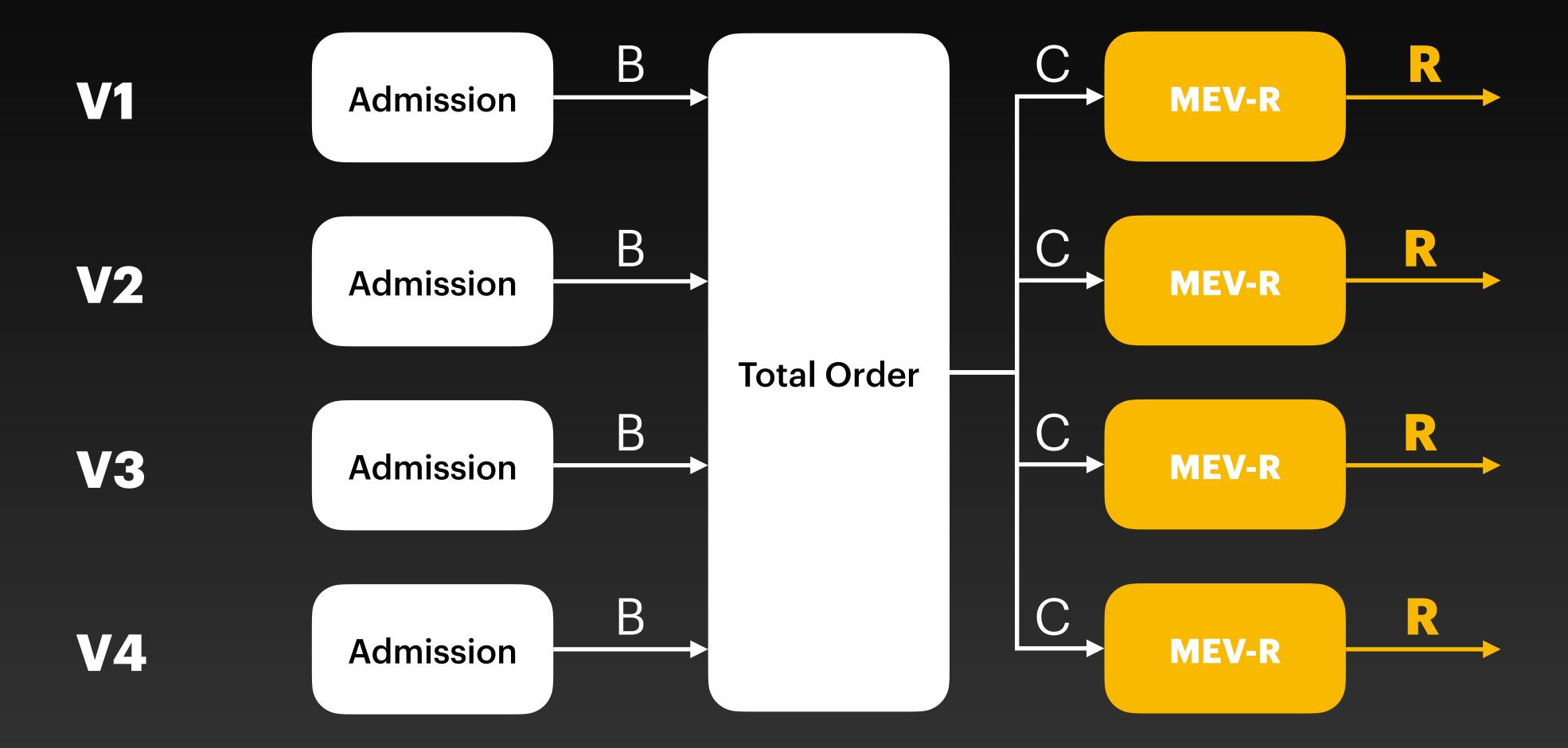
Additional latency imposed on normal transactions that follow encrypted ones

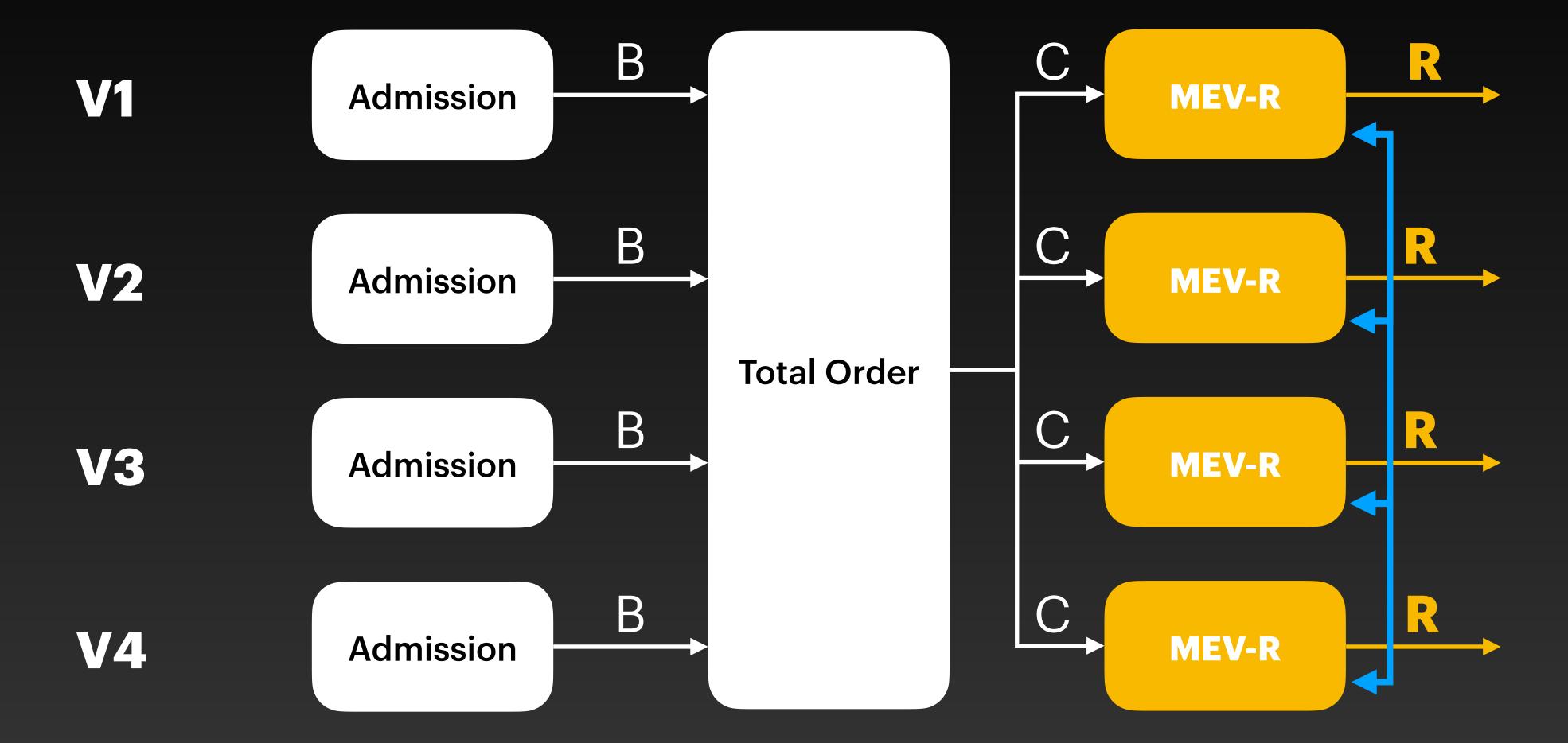
Shared Key

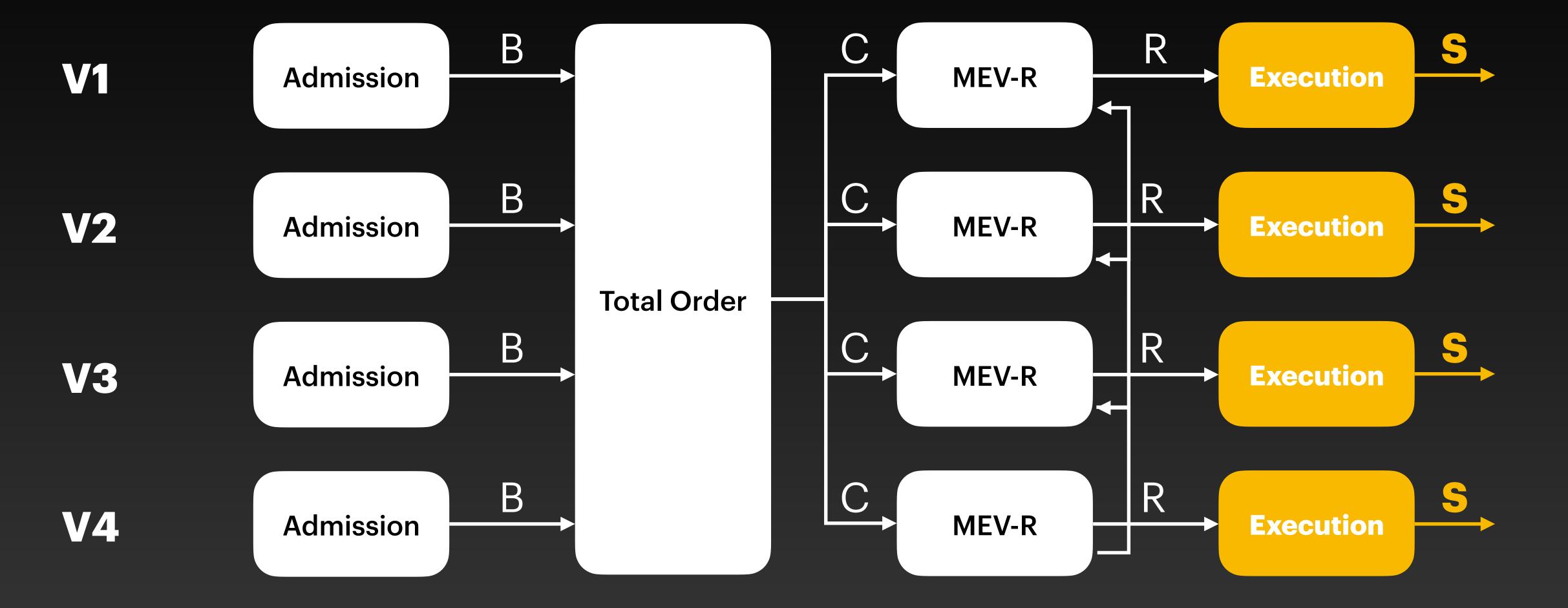


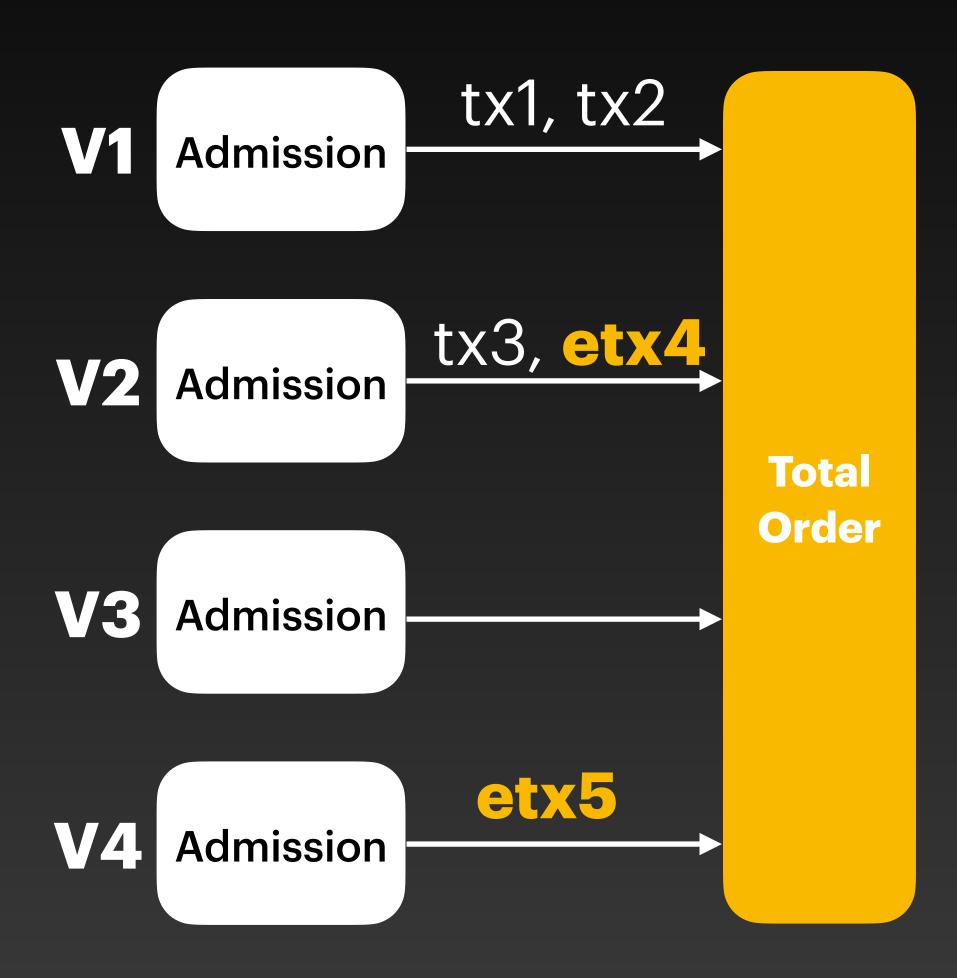


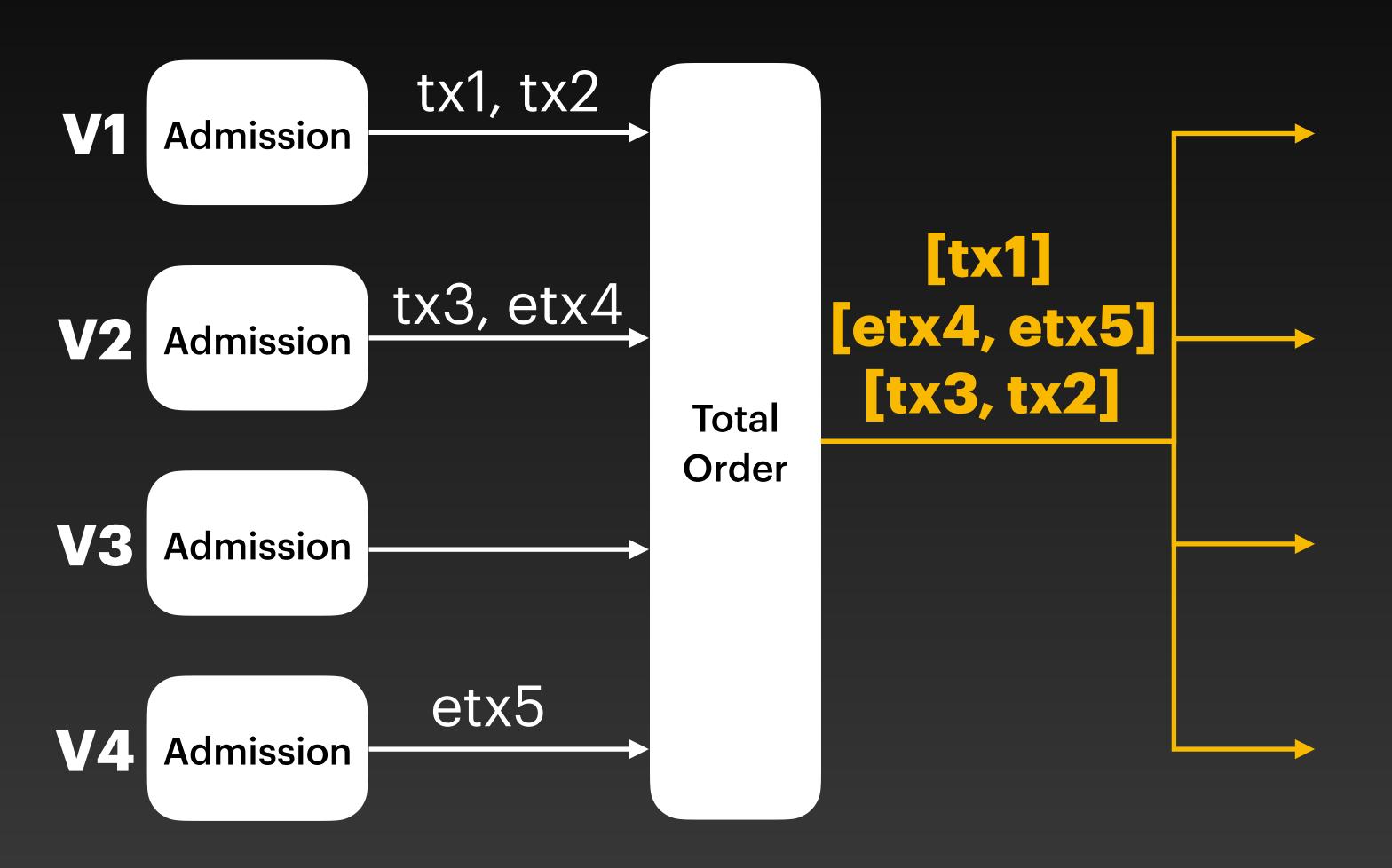


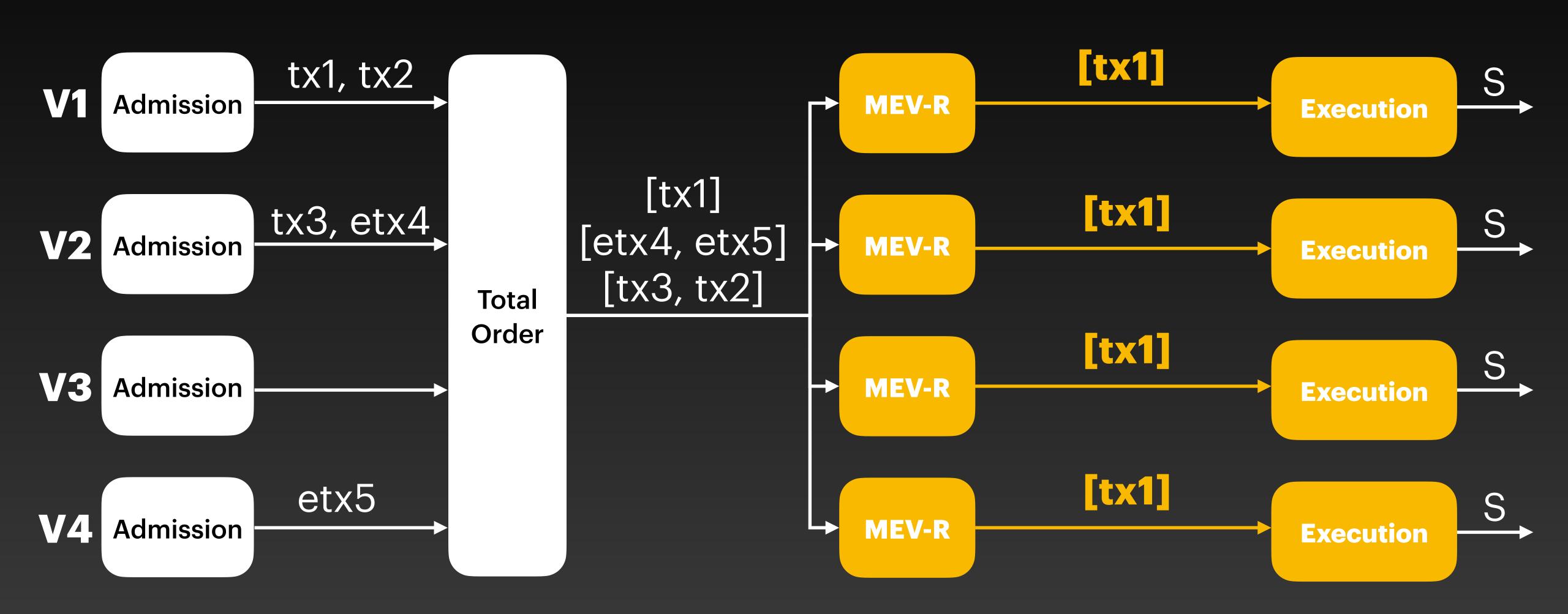


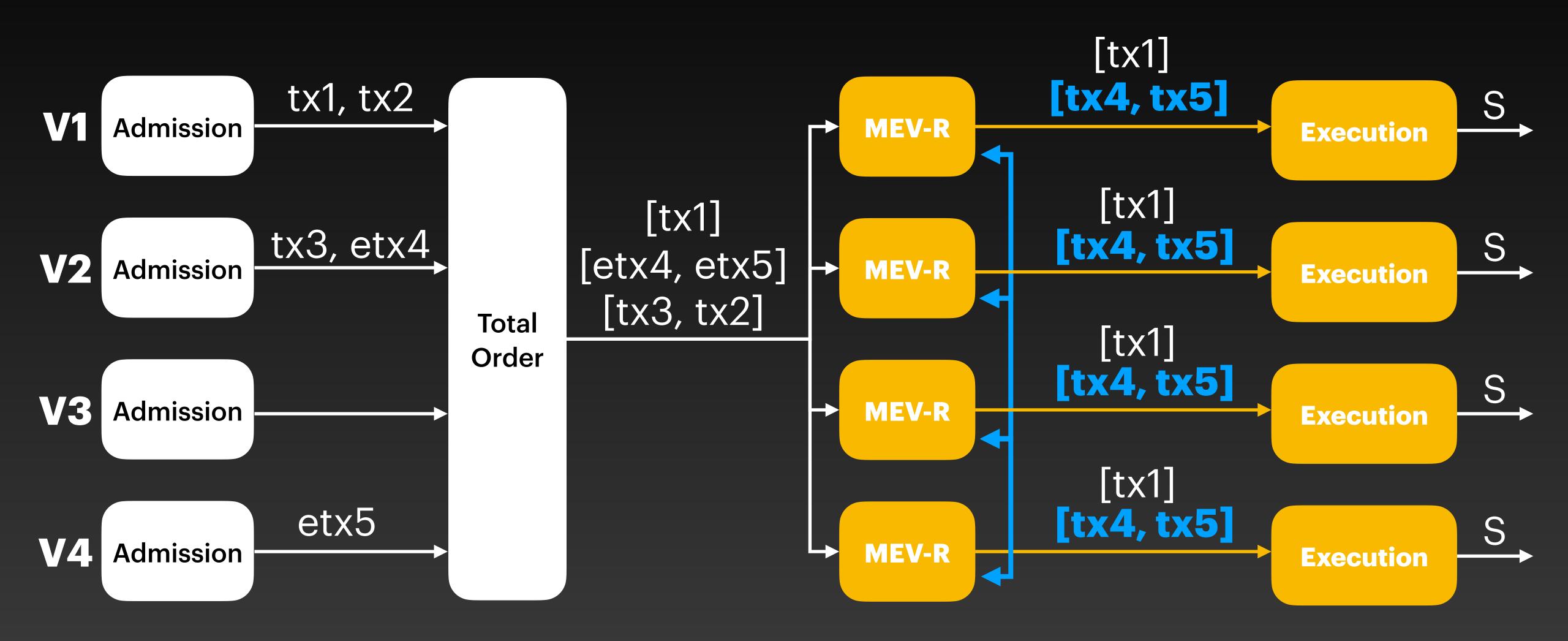


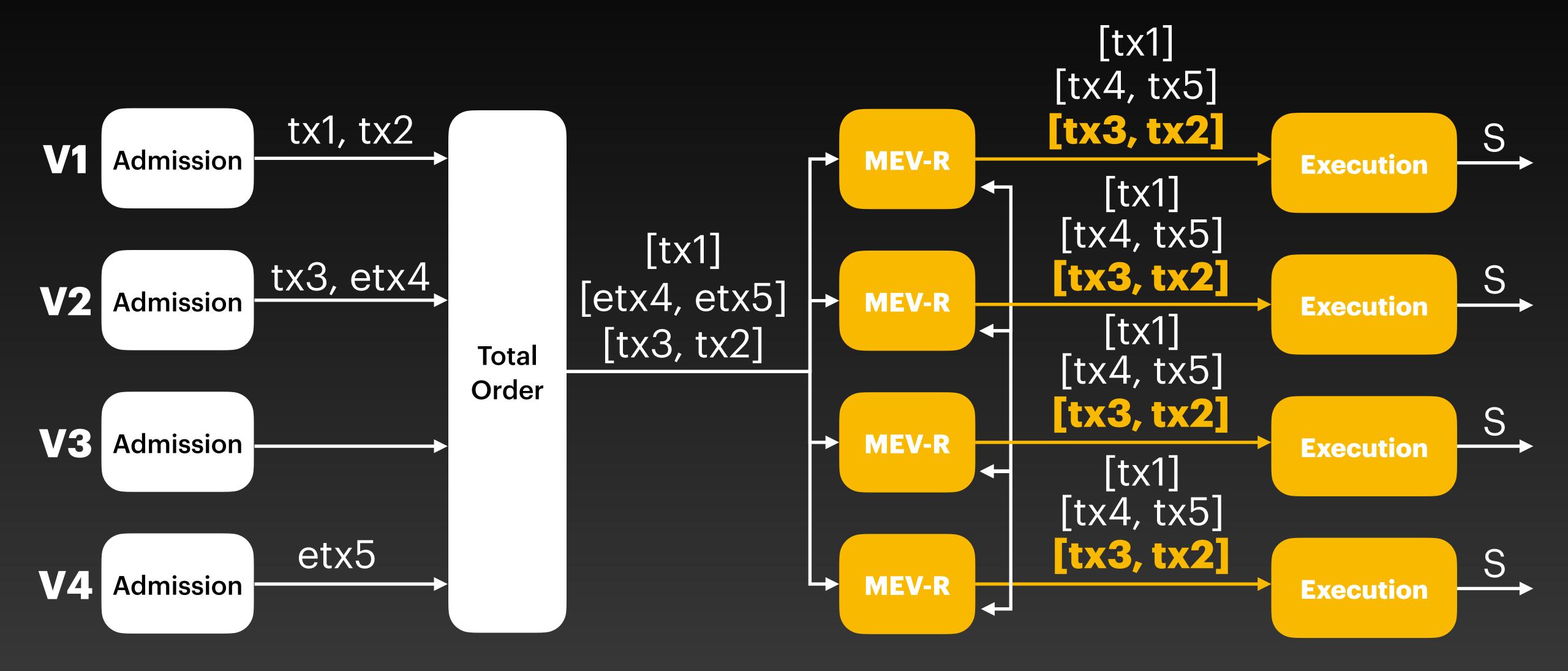


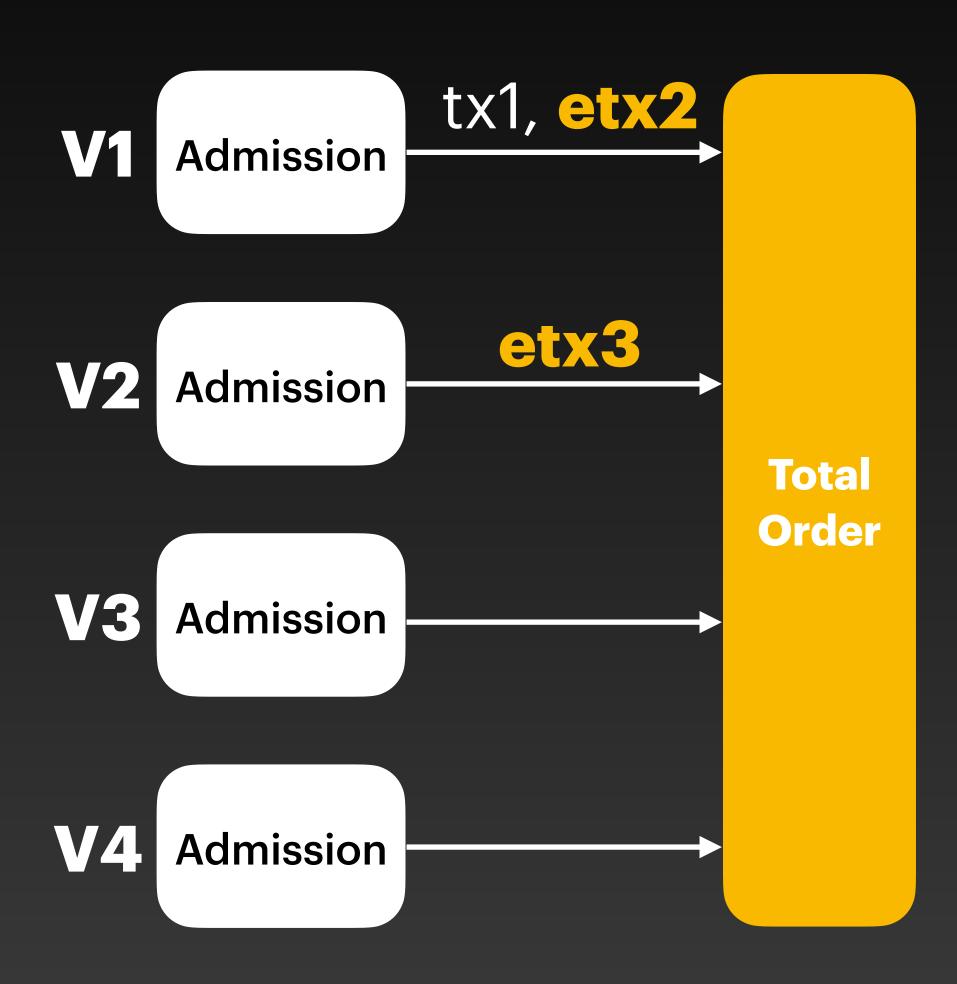


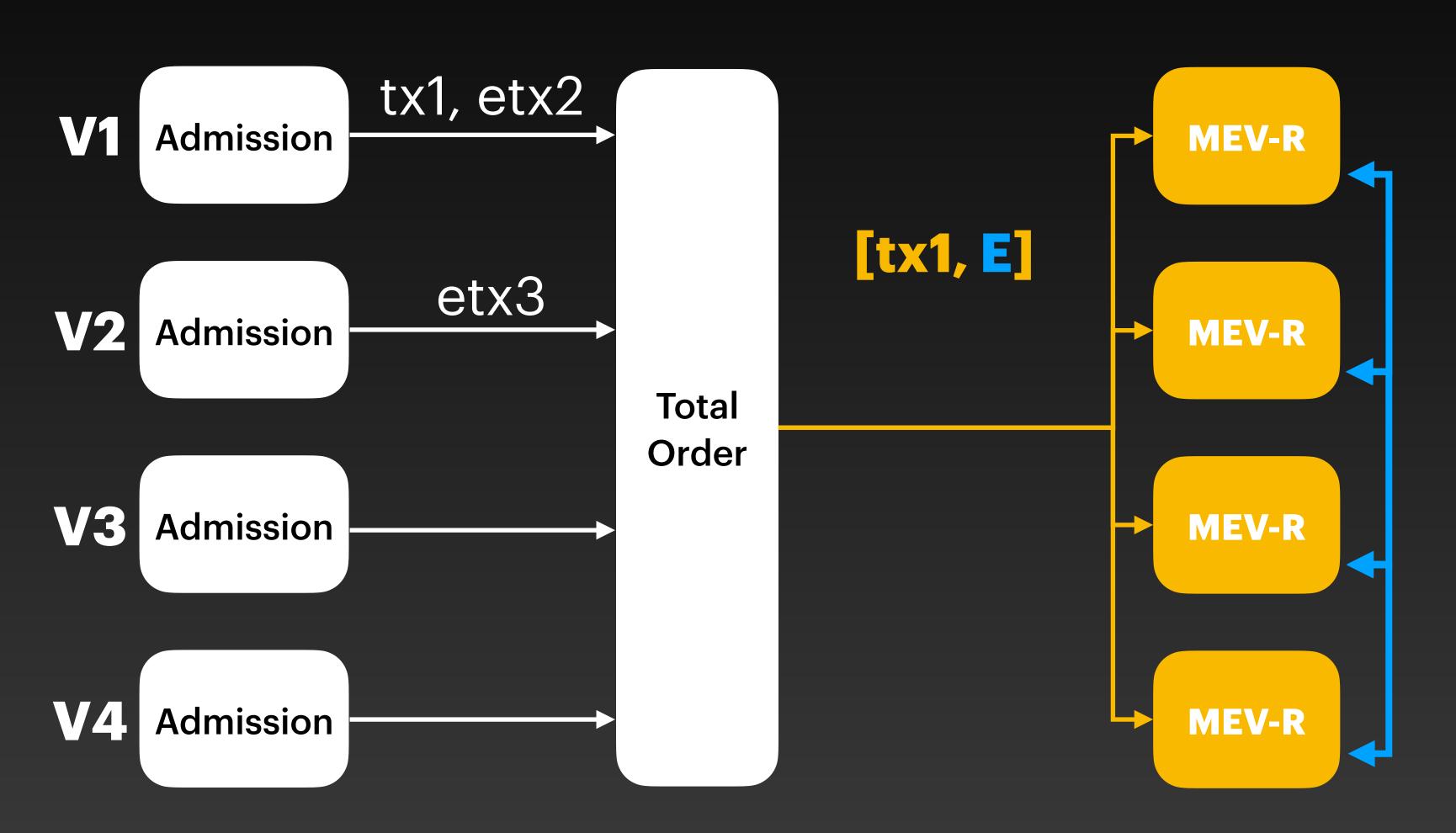


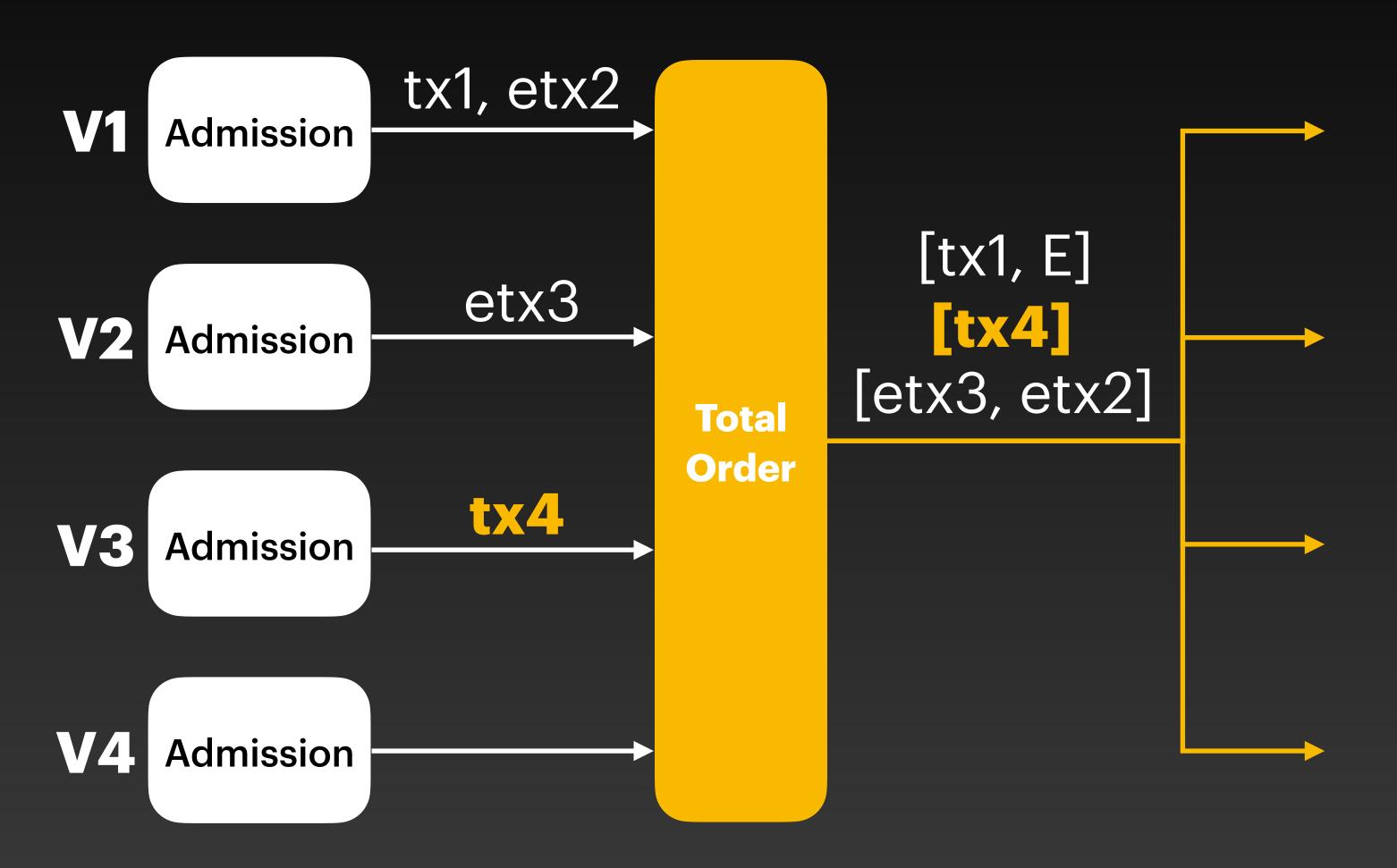


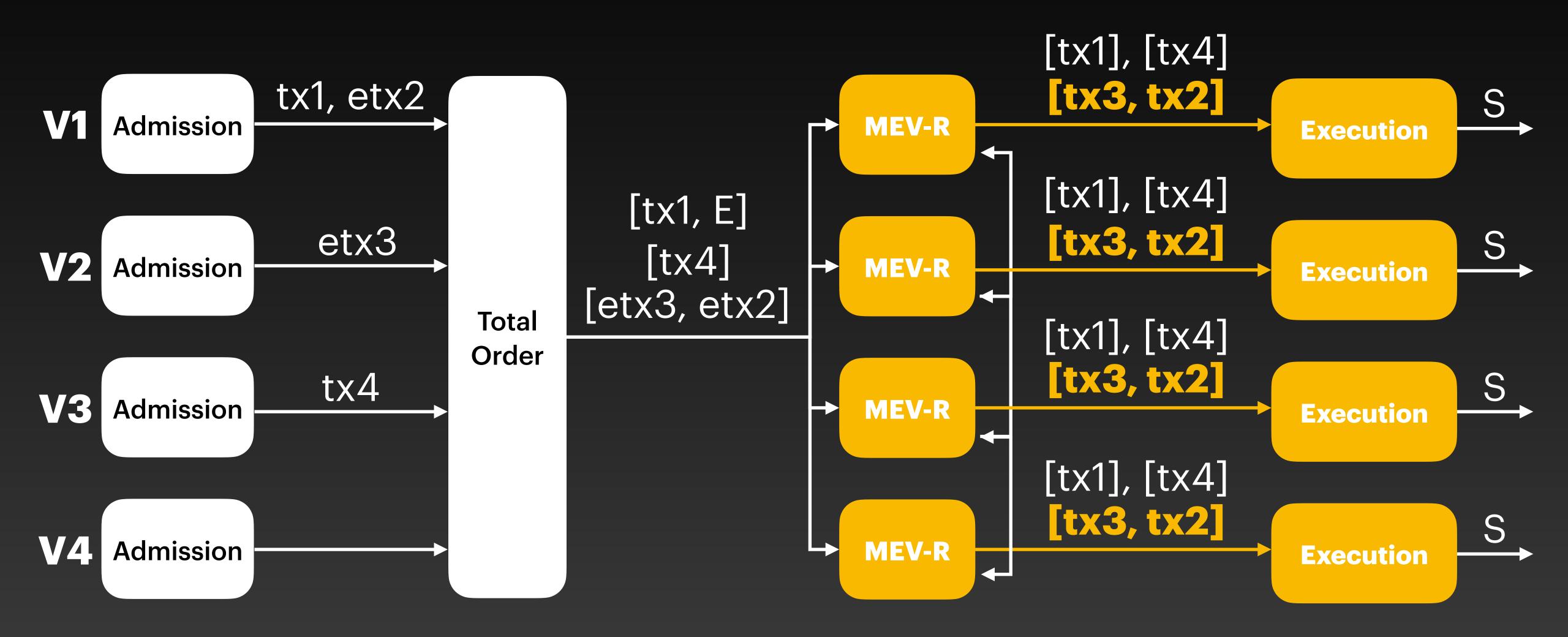










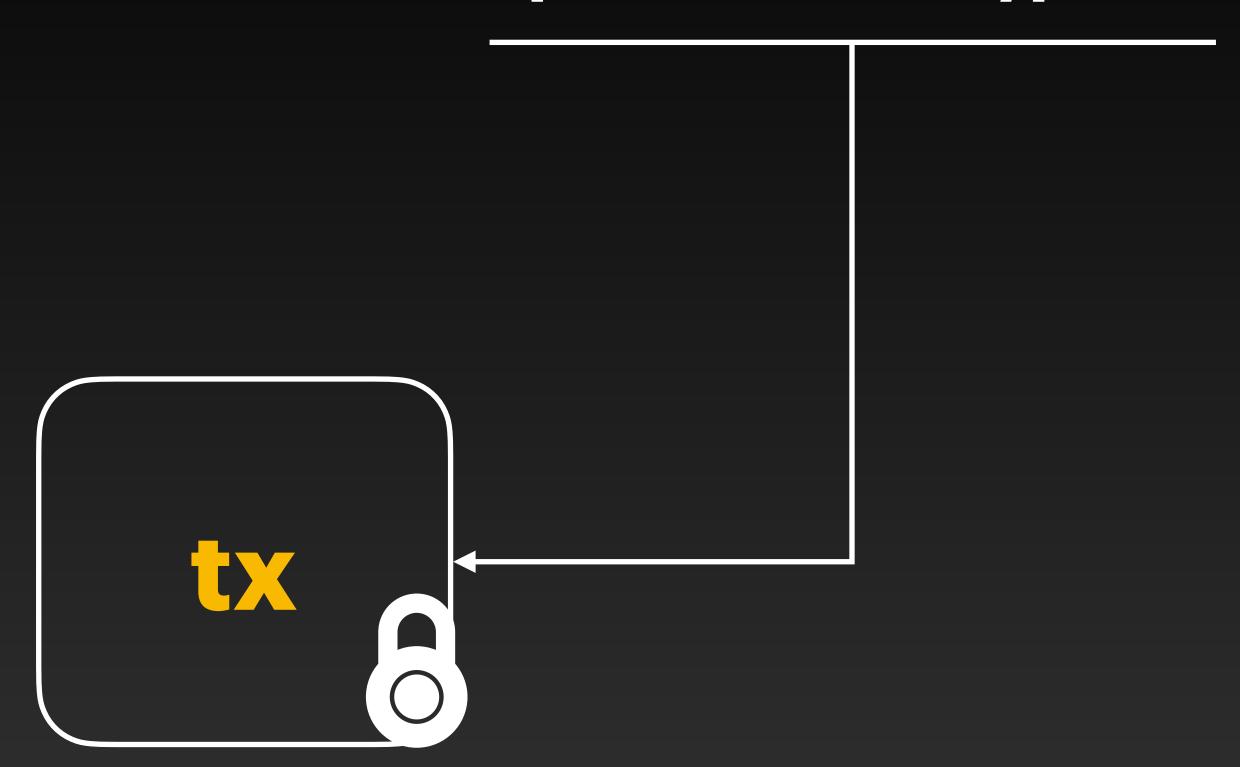


Seahorse

Mix per-transaction and per-event decryption

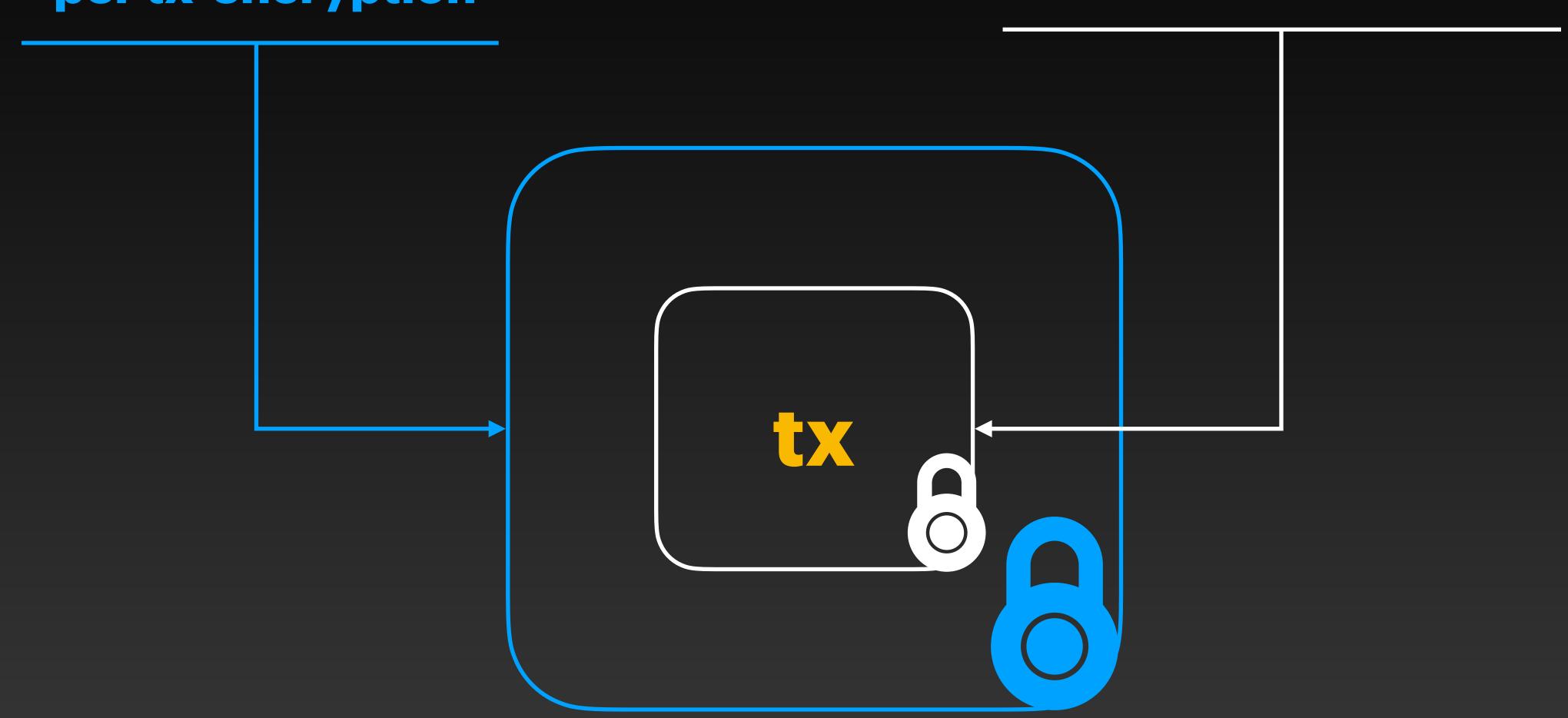


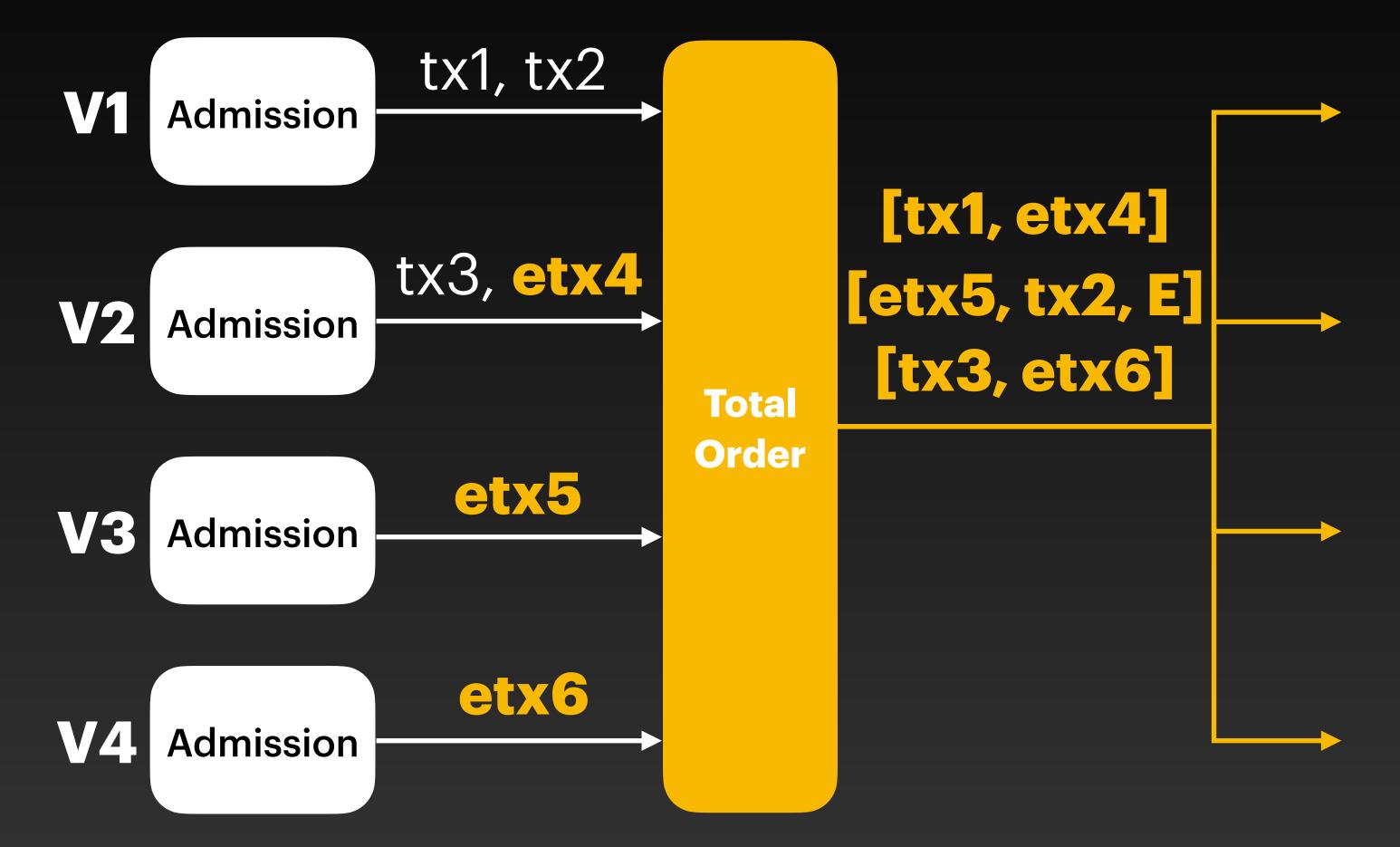
per event-encryption

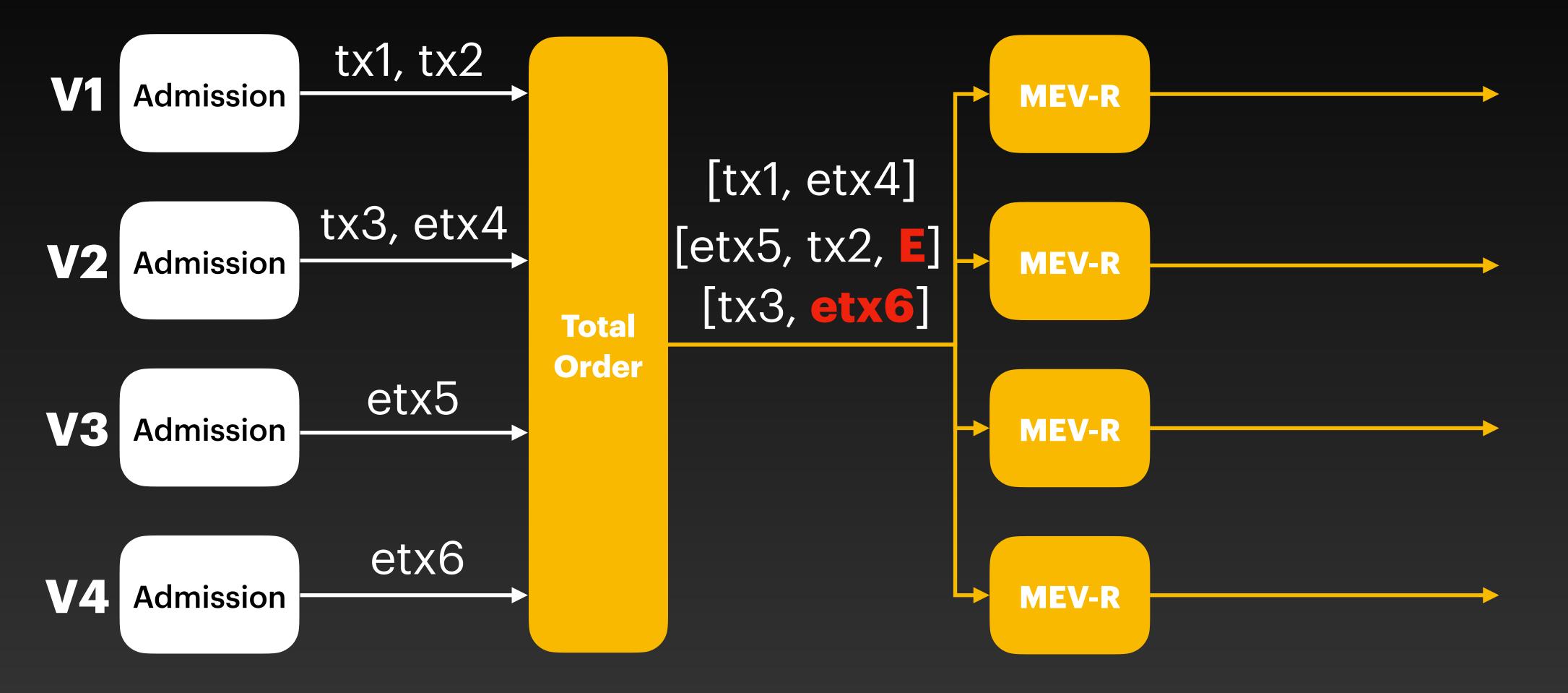


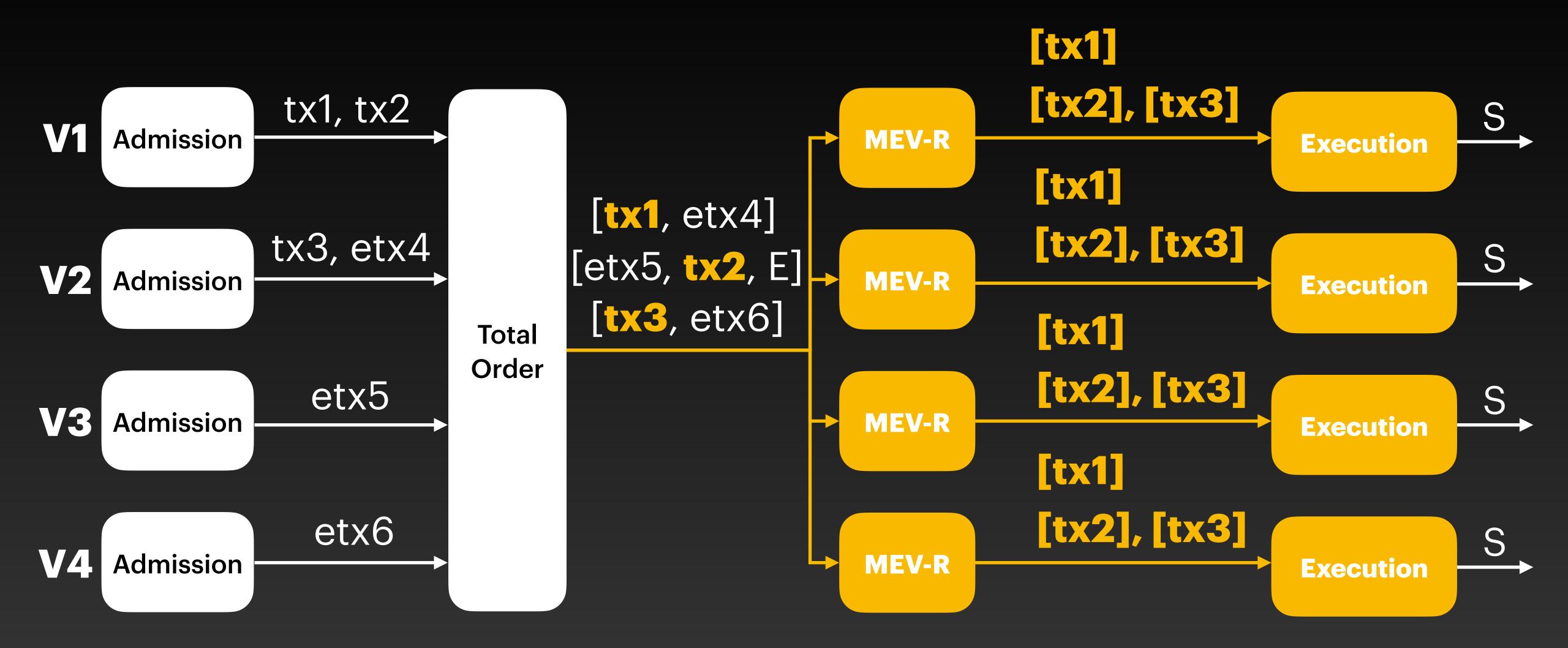
per tx-encryption

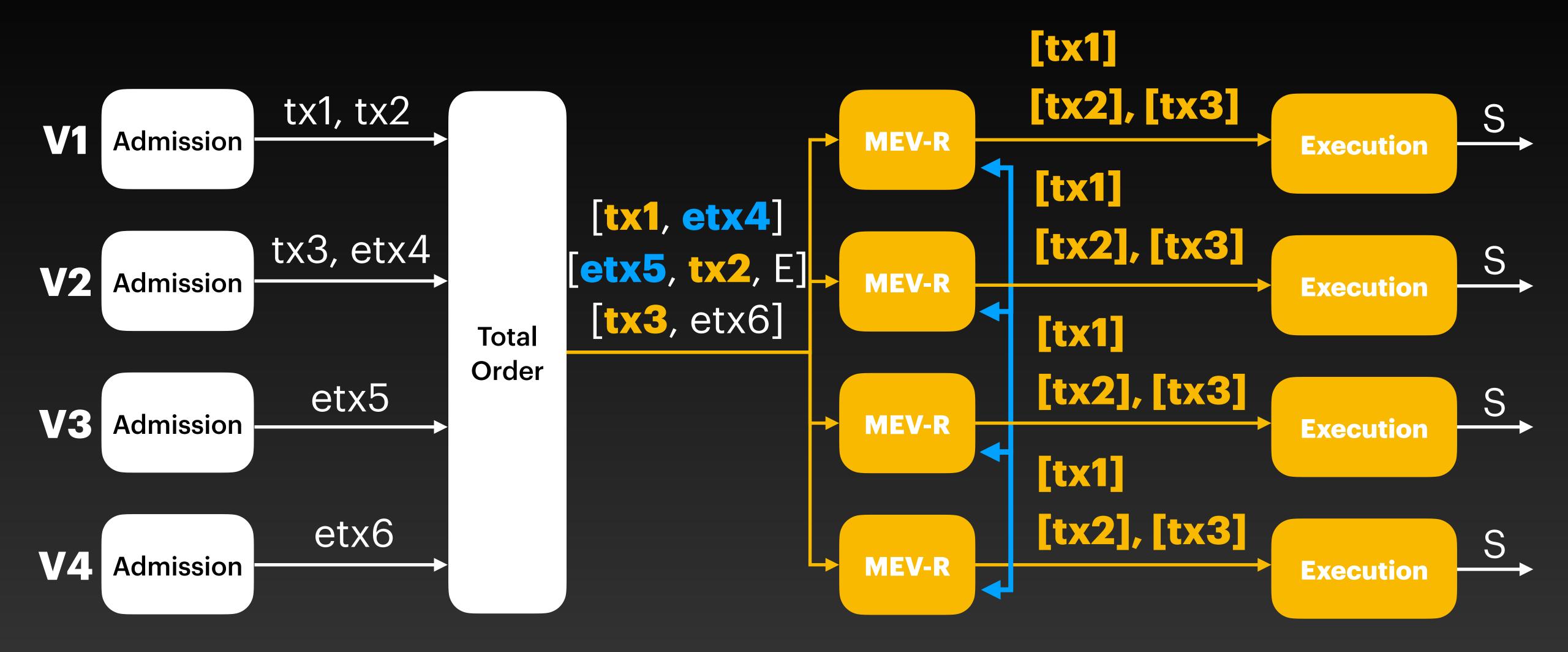
per event-encryption

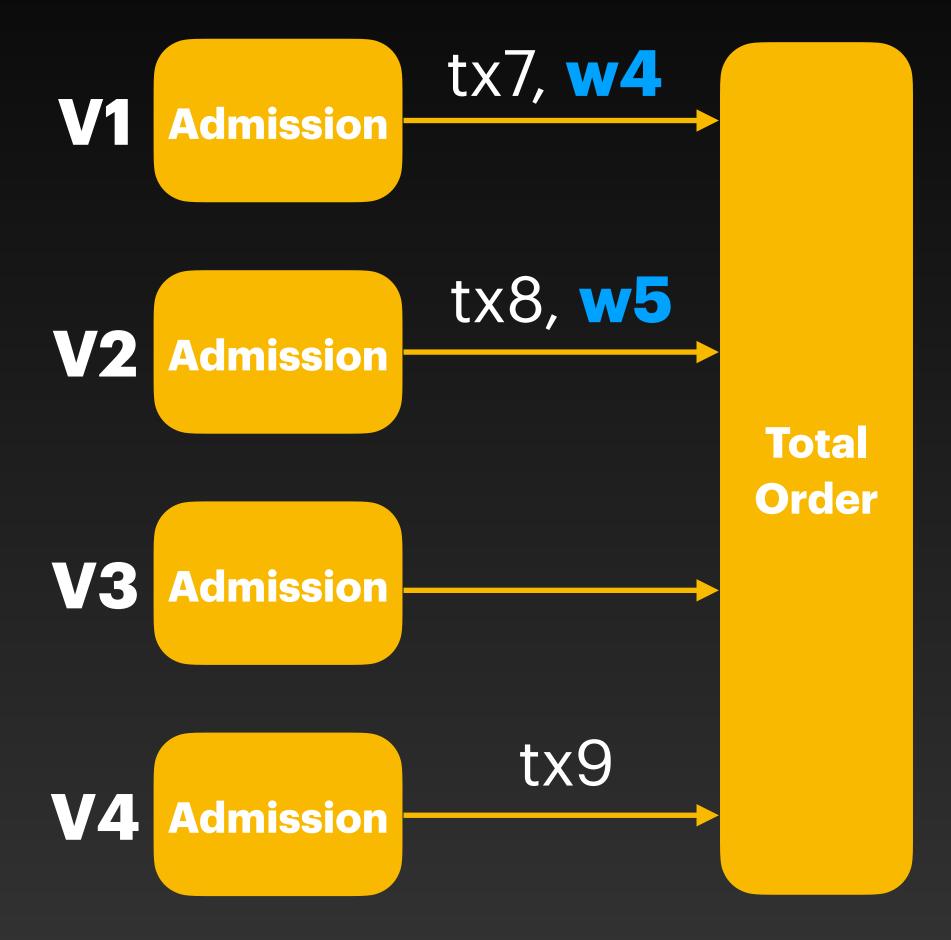


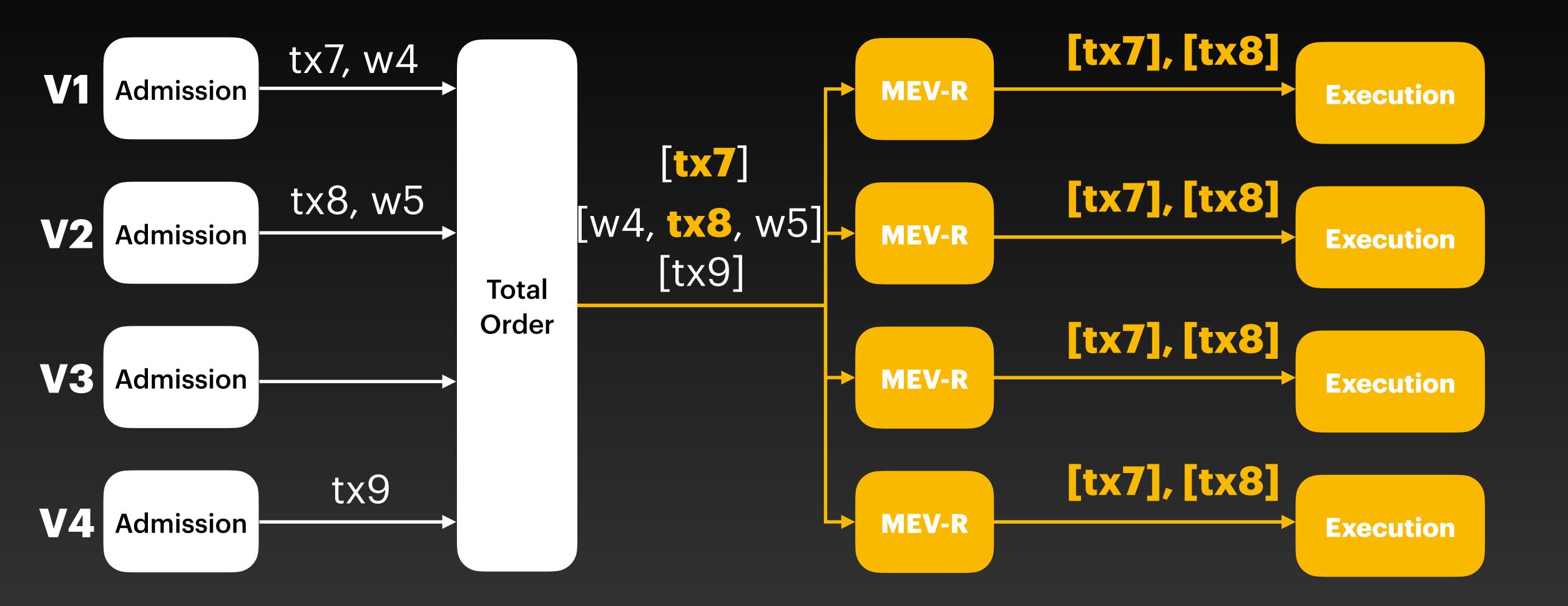


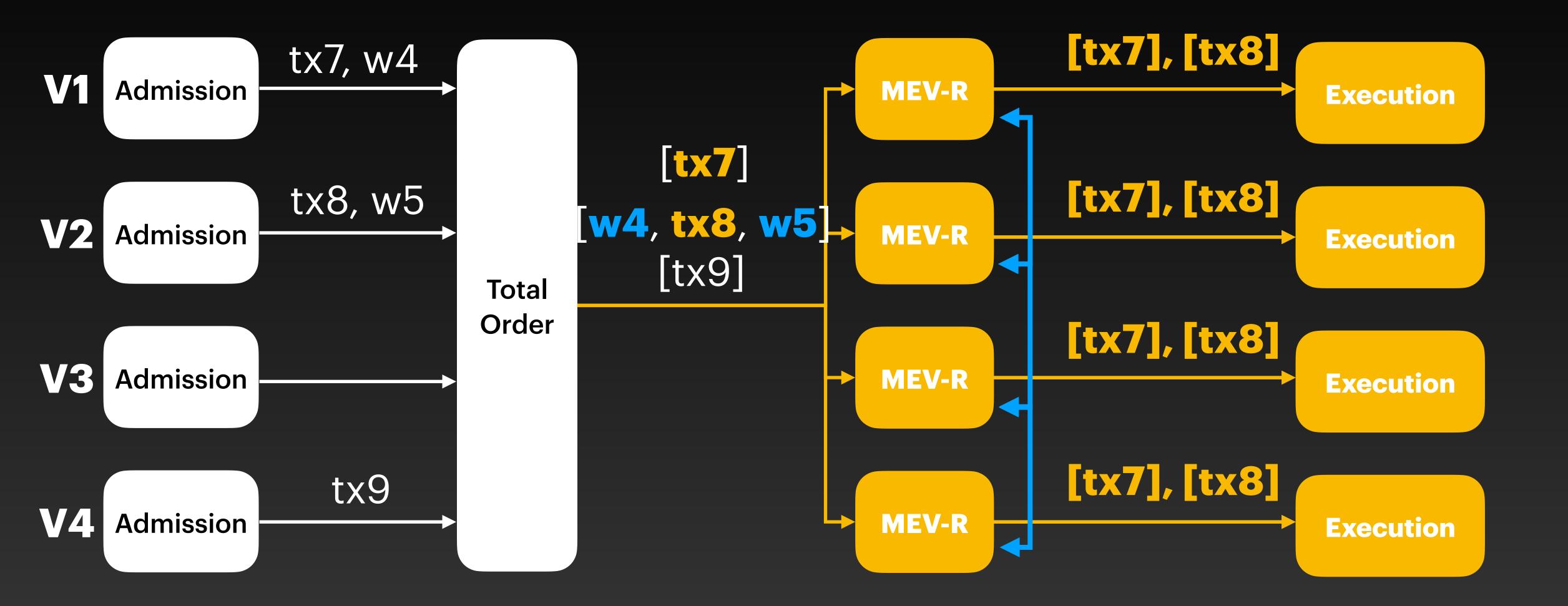


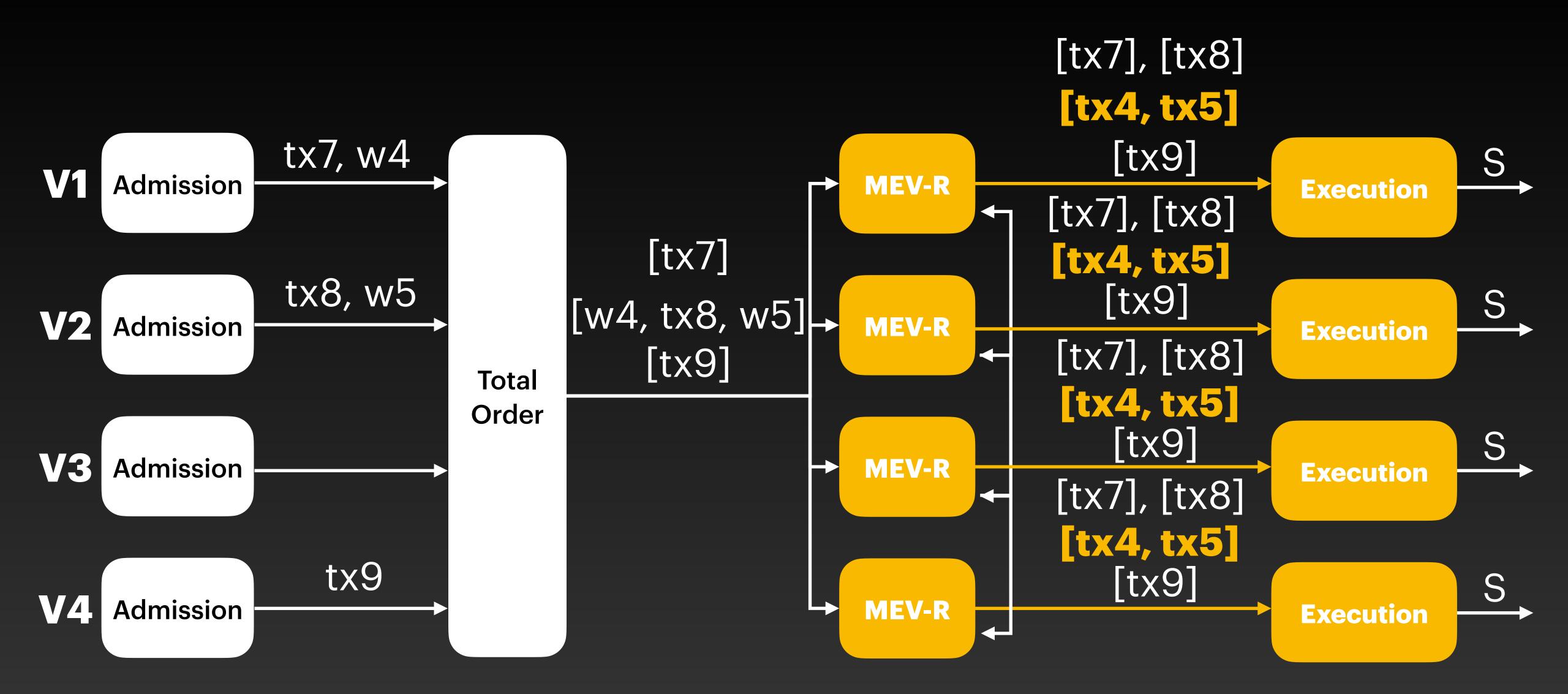


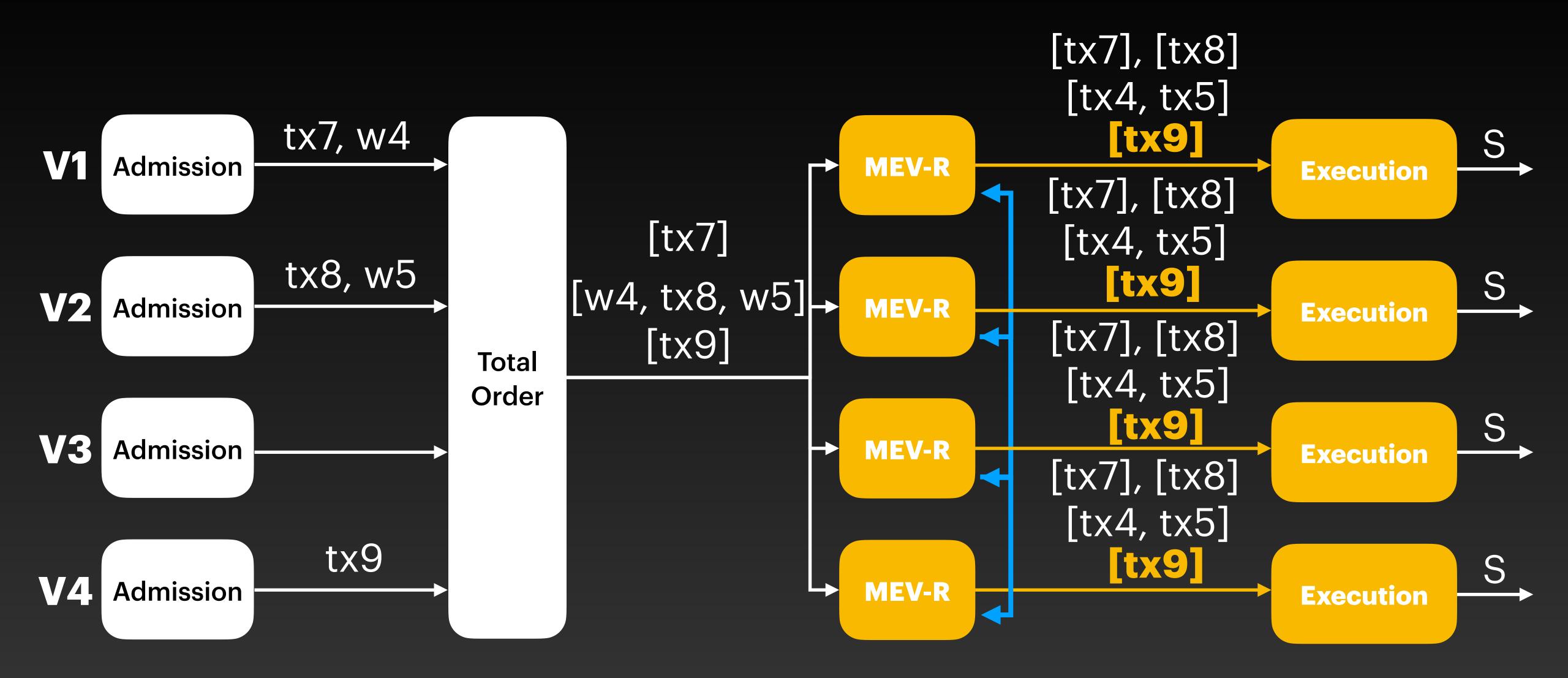












Latency?

Increases for encrypted transactions

Research Gifts



(please keep it short)