

BLOCKCHAIN TRANSACTION PROCESSING SYSTEMS AND METHODS

ABSTRACT

Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for processing blockchain transactions. An example of a system for processing blockchain transaction includes a storage subsystem including one or more storage devices that store blockchain data, and one or more processors configured to support a first thread pool and a second thread pool. The second thread pool is dedicated to the storage subsystem. The system receives M blockchain transactions and executes N blockchain transactions out of the M blockchain transactions using K threads of the first thread pool in parallel. For blockchain transactions distributed to each one of the K threads, one or more coroutines are used for each blockchain transaction so that the blockchain transactions are executed asynchronously using the coroutines. A blockchain block is generated to include the M blockchain transactions and added to a blockchain stored in the storage subsystem.

FIG. 3