

TRANSACTION CONSENSUS PROCESSING METHOD AND APPARATUS FOR BLOCKCHAIN AND ELECTRONIC DEVICE

ABSTRACT

A transaction consensus processing method for a blockchain is provided. A target node device that initiates a proposition performs compression processing on proposed transaction data based on a predetermined compression algorithm, and fragments the compressed transaction data into a number of data fragments based on an erasure code algorithm. The method includes: receiving a data fragment of the transaction data that is sent by the target node device in a unicast mode, data fragments sent by the target node device to node devices in the unicast mode being different; broadcasting the received data fragment to other node devices, and receiving data fragments of the transaction data that are broadcast by the other node devices; determining whether a number of received data fragments of the transaction data reaches an erasure code recovery threshold; and if yes, performing data recovery on the received data fragment based on an erasure code reconstruction algorithm, performing decompression processing on the recovered transaction data based on a decompression algorithm to obtain original content of the transaction data, and completing the consensus.

FIG. 1