

CLAIMS

1. A method for processing blockchain-based data, the method comprising:

receiving (101), by a node in a blockchain network, a plurality of sets of service data generated in a specified time period, wherein each of the plurality of sets of service data is generated by a different service and is associated with a different processing priority, wherein the plurality of sets of service data comprise corresponding label information used to represent corresponding processing priorities to the plurality of sets of service data;

determining (102), by the node when a new block of the blockchain is newly generated, throughputs for processing data of the plurality of sets of service data, wherein the throughputs for processing the plurality of sets of service data are determined based on the label information for each of the sets of service data having a predetermined mapping relationship between the label information and the throughputs;

obtaining (103), by the node and from the service data, amounts of data from the plurality of sets of service data that satisfy the throughputs, wherein an amount of data of a first set of service data of a first service is calculated based on a throughput determined for the first set of service data and a storage capacity of the new block; and

storing (104) the obtained amount of data from the plurality of sets of service data in the new block.

2. The method according to claim 1, wherein establishing the predetermined mapping relationship between the label information and the throughputs comprises:

determining processing priorities of the plurality of sets of service data of different services;

determining mapping relationships between the processing priorities and the label information;

determining throughputs that correspond to the processing priorities based on the processing priorities; and

establishing the mapping relationships between label information that corresponds to the processing priorities and the throughputs.

3. The method according to claim 2, wherein the throughputs of the plurality of sets of service data are different in different time periods.

4. The method according to claim 1, wherein obtaining the amount of data from the plurality of sets of the service data that satisfies the throughputs comprises:

determining an amount of service data from the first set of service data that comprises first label information based on first throughput and the storage capacity of the new block; and

obtaining the amount of service data from the first set of service data that comprises the label information.

5. The method according to any one of claims 1 to 4, wherein obtaining the amount of data from the plurality of sets of the service data that satisfies the throughputs comprises:

in response to determining that a set of the service data does not comprise label information, obtaining, based on an idle capacity of the new block, an amount of service data from the set of service data that satisfies the idle capacity and does not comprise label information; or

in response to determining that a throughput that corresponds to the label information of a set of service data is null, obtaining, based on an idle capacity of the new block, an amount of service data from the set of service data that satisfies the idle capacity and comprises the label information.

6. The method according to claim 1, wherein obtaining the amount of the plurality of sets of the service data that satisfies the throughputs and that comprise the label information based on the throughput comprises:

obtaining the amount of the plurality of sets of the service data that satisfies the throughputs based on the throughputs and timestamps of the plurality of sets of service data that corresponds to the label information.

7. The method according to claim 1, wherein obtaining the amount of the plurality of sets of the service data that satisfies the throughput comprises:

in response to determining that an amount of a set of service data stored in the data processing set that corresponds to the label information is less than the throughput, obtaining the service data from the data processing set based on the amount of service data stored in the data processing set.

8. The method according to claim 1, wherein a sum of throughputs that correspond to different label information of the plurality of sets of service data is less than or equal to the storage capacity of the new block.

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9. The method according to claim 1, wherein the throughputs comprise a processing ratio or a processing quantity.

10. The method according to claim 1, wherein the plurality of sets of the service data comprises at least one of a hash value, a version number, a public key, a signature, a hash value of a block corresponding to the service data, and a timestamp.

11. A device for processing blockchain-based data, the device comprising a plurality of modules configured to perform the method of any one of claims 1 to 10.

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