

CLAIMS

1. A method for blockchain consensus, the method comprising:
receiving, by a node in a blockchain, a first piece of service data;
5 determining a handling time of the first piece of service data;
storing, by the node, the first piece of service data;
selecting, by the node, additional service data on which consensus is to be performed, wherein
the additional service data comprises content to be executed in a service, wherein selecting the
additional service data on which consensus is to be performed comprises sorting a plurality of
10 pieces of service data based on a time sequence of handling times of the plurality of pieces of
service data, respectively,
wherein the plurality of pieces of service data comprises the first piece of service data,
wherein the handling times of the plurality of pieces of service data respectively comprise
corresponding timestamps; and
15 performing consensus on the additional service data.
2. The method according to claim 1, wherein determining the handling time of the first piece
of service data comprises:
determining a time at which the first piece of service data is received, and determining the
20 time as the handling time of the first piece of service data; or
processing the first piece of service data at a time at which the first piece of service data is
received, to obtain a processing result, and determining a generation time of the processing result
as the handling time of the first piece of service data.
- 25 3. The method according to claim 1, wherein after determining the handling time of the first
piece of service data, the method further comprises:
broadcasting the first piece of service data that comprises the handling time to another node
in the blockchain.

4. The method according to claim 1, wherein receiving, by the node, the first piece of service data and determining the handling time of the first piece of service data comprises:

receiving, by the node in a broadcast way, the first piece of service data sent by another node in the blockchain; and

5 determining, by the node, the handling time comprised in the first piece of service data as the handling time of the first piece of service data.

5. The method according to claim 1, wherein selecting, by the node, the additional service data on which consensus is to be performed comprises:

10 selecting, based on the time sequence of handling times, the additional service data on which consensus is to be performed and that satisfies a block capacity of a block in which the additional service data is to be stored.

6. The method according to claim 1, wherein the node comprises: a service node or a
15 consensus node.

7. The method according to claim 1, wherein the first piece of service data comprises at least one of a service attribute, a service identifier, a version identifier, a public key, a signature, a service information, and a block identifier.

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8. The method according to claim 1, wherein the handling time comprises a timestamp corresponding to a local time of the node when the node receives a request to process the first piece of service data.

25 9. An apparatus for blockchain consensus, the apparatus comprising a plurality of modules configured to perform the method of any one of claims 1 to 8.