

What is claimed is:

1. A multi-blockchains fragmentation processing method, comprising:

receiving a transaction request sent by an application client, wherein the transaction request carries an application client parameter, and the application client parameter comprises a service type and a service identifier;

acquiring blockchain identifiers of a plurality of blockchains, wherein the blockchain has a corresponding service type and has an application-level code deployed thereon;

parsing the application client parameter and selecting the blockchain identifier corresponding to the service type carried by the transaction request; and

assigning the transaction request to the blockchain corresponding to the selected blockchain identifier, so that the application-level code deployed on the blockchain completes a transaction according to the application client parameter;

wherein the parsing the application client parameter and selecting the blockchain identifier corresponding to the service type carried by the transaction request comprises:

serving the blockchains of the same service type as a physical blockchain if there are a plurality of blockchain identifiers corresponding to the service type carried in the transaction request, and dividing the physical blockchain into a plurality of virtual blockchains;

acquiring virtual blockchain identifiers corresponding to the plurality of virtual blockchains;

performing hash calculations respectively according to the service type, the service identifier and each virtual blockchain identifier to obtain a corresponding set of hash results;

selecting the virtual blockchain identifier corresponding to the transaction request according to the set of hash results;

acquiring a mapping table when a number of the blockchains changes, wherein the mapping table comprises a mapping relationship between the application client parameter and the blockchain identifier; and

retrieving the corresponding blockchain identifier in the mapping table according to the mapping relationship and the service type and the service identifier carried in the

transaction request, and recording the retrieved blockchain identifier as the selected blockchain identifier.

2. The method according to claim 1, wherein the application client parameter further comprises a service identifier, and the parsing the application client parameter and selecting the blockchain identifier corresponding to the service type carried by the transaction request comprises:

performing hash calculations respectively according to the service type, the service identifier and each blockchain identifier to obtain a corresponding set of hash results if there are a plurality of blockchain identifiers corresponding to the service type carried in the transaction request; and

selecting the blockchain identifier corresponding to the transaction request according to the set of hash results.

3. The method according to claim 1, further comprising:

receiving an event message flow acquisition request sent by the application client;

sending the event message flow acquisition request to the blockchain to which the transaction request is assigned; and

acquiring a corresponding event message flow when the blockchain performs the transaction through the application-level code, and returning the event message flow to the application client.

4. A multi-blockchains fragmentation processing device, comprising:

an application-level code fragmentation server configured to receive a transaction request from an application client, wherein the transaction request carries an application client parameter, and the application client parameter comprises a service type and a service identifier;

to acquire blockchain identifiers of a plurality of blockchains, wherein the blockchain has a corresponding service type and has an application-level code deployed thereon; and to parse the application client parameter and select the blockchain identifier corresponding to the service type carried by the transaction request; and

an application-level code fragmentation client configured to assign the transaction request to the blockchain corresponding to the selected blockchain identifier, so that the application-level code deployed on the blockchain completes a transaction according to the application client parameter;

wherein the application-level code fragmentation server is further configured to serve the blockchains of the same service type as a physical blockchain if there are a plurality of blockchain identifiers corresponding to the service type carried in the transaction request, and divide the physical blockchain into a plurality of virtual blockchains; to acquire virtual blockchain identifiers corresponding to the plurality of virtual blockchains; to perform hash calculations respectively according to the service type, the service identifier and each virtual blockchain identifier to obtain a corresponding set of hash results; and to select the virtual blockchain identifier corresponding to the transaction request according to the set of hash results; and

wherein the application-level code fragmentation server is further configured to acquire a mapping table when a number of the blockchains changes, wherein the mapping table comprises a mapping relationship between the application client parameter and the blockchain identifier; and to retrieve the corresponding blockchain identifier in the mapping table according to the mapping relationship and the service type and service identifier carried in the transaction request, and record the retrieved blockchain identifier as the selected blockchain identifier.

5. The device according to claim 4, wherein the application client parameter further comprises a service identifier, and the application-level code fragmentation server is further configured to perform hash calculations respectively according to the service type, the service identifier and each blockchain identifier to obtain a corresponding set of hash results if there are a plurality of blockchain identifiers corresponding to the service type carried in the transaction request; and to select the blockchain identifier corresponding to the transaction request according to the set of hash results.

6. The device according to claim 4, further comprising:

an event message server configured to receive an event message flow acquisition request sent by the application client; and to send the event message flow acquisition request to the blockchain to which the transaction request is assigned; and

an event message client configured to acquire a corresponding event message flow when the blockchain performs the transaction through the application-level code, and return the event message flow to the application client.

7. A server, comprising a memory and a processor, the memory having computer-readable instructions stored therein which, when executed by the processor, cause the processor to perform the steps of:

receiving a transaction request sent by an application client, wherein the transaction request carries an application client parameter, and the application client parameter comprises a service type and a service identifier;

acquiring blockchain identifiers of a plurality of blockchains, wherein the blockchain has a corresponding service type and has an application-level code deployed thereon;

parsing the application client parameter and selecting the blockchain identifier corresponding to the service type carried by the transaction request; and

assigning the transaction request to the blockchain corresponding to the selected blockchain identifier, so that the application-level code deployed on the blockchain completes a transaction according to the application client parameter;

wherein in the parsing the application client parameter, the processor further performs the steps of:

serving the blockchains of the same service type as a physical blockchain if there are a plurality of blockchain identifiers corresponding to the service type carried in the transaction request, and dividing the physical blockchain into a plurality of virtual blockchains;

acquiring virtual blockchain identifiers corresponding to the plurality of virtual blockchains;

performing hash calculations respectively according to the service type, the service identifier and each virtual blockchain identifier to obtain a corresponding set of hash results; and

selecting the virtual blockchain identifier corresponding to the transaction request according to the set of hash results;

acquiring a mapping table when a number of the blockchains changes, wherein the mapping table comprises a mapping relationship between the application client parameter and the blockchain identifier; and

retrieving the corresponding blockchain identifier in the mapping table according to the mapping relationship and the service type and the service identifier carried in the transaction request, and recording the retrieved blockchain identifier as the selected blockchain identifier.

8. The server according to claim 7, wherein the application client parameter further comprises a service identifier, and in the parsing the application client parameter, the processor further performs the steps of:

performing hash calculations respectively according to the service type, the service identifier and each blockchain identifier to obtain a corresponding set of hash results if there are a plurality of blockchain identifiers corresponding to the service type carried in the transaction request; and

selecting the blockchain identifier corresponding to the transaction request according to the set of hash results.

9. The server according to claim 7, when the computer-readable instructions are executed by the processor, the processor further performs the steps of:

receiving an event message flow acquisition request sent by the application client;

sending the event message flow acquisition request to the blockchain to which the transaction request is assigned;

acquiring a corresponding event message flow when the blockchain performs the transaction through the application-level code and returning the event message flow to the application client.

10. One or more non-transitory computer-readable storage medium having computer-readable instructions stored thereon which, when executed by one or more processors, cause the one or more processors to perform the steps of:

receiving a transaction request sent by an application client, wherein the transaction request carries an application client parameter, and the application client parameter comprises a service type and a service identifier;

acquiring blockchain identifiers of a plurality of blockchains, wherein the blockchain has a corresponding service type and has an application-level code deployed thereon;

parsing the application client parameter and selecting the blockchain identifier corresponding to the service type carried by the transaction request; and

assigning the transaction request to the blockchain corresponding to the selected blockchain identifier, so that the application-level code deployed on the blockchain completes a transaction according to the application client parameter;

wherein in the parsing the application client parameter, the one or more processors further perform the steps of:

serving the blockchains of the same service type as a physical blockchain if there are a plurality of blockchain identifiers corresponding to the service type carried in the transaction request, and dividing the physical blockchain into a plurality of virtual blockchains;

acquiring virtual blockchain identifiers corresponding to the plurality of virtual blockchains;

performing hash calculations respectively according to the service type, the service identifier and each virtual blockchain identifier to obtain a corresponding set of hash results; and

selecting the virtual blockchain identifier corresponding to the transaction request according to the set of hash results;

acquiring a mapping table when a number of the blockchains changes, wherein the mapping table comprises a mapping relationship between the application client parameter and the blockchain identifier; and

retrieving the corresponding blockchain identifier in the mapping table according to the mapping relationship and the service type and the service identifier carried in the transaction request, and recording the retrieved blockchain identifier as the selected blockchain identifier.

11. The non-transitory computer-readable storage medium according to claim 10, wherein the application client parameter further comprises a service identifier, and in the parsing the application client parameter, the one or more processors further perform the steps of:

performing hash calculations respectively according to the service type, the service identifier and each blockchain identifier to obtain a corresponding set of hash results if there are a plurality of blockchain identifiers corresponding to the service type carried in the transaction request; and

selecting the blockchain identifier corresponding to the transaction request according to the set of hash results.

12. The non-transitory computer-readable storage medium according to claim 10, wherein when the computer-readable instructions are executed by the one or more processors, the one or more processors further perform the steps of:

receiving an event message flow acquisition request sent by the application client;

sending the event message flow acquisition request to the blockchain to which the transaction request is assigned; and

acquiring a corresponding event message flow when the blockchain performs the transaction through the application-level code and returning the event message flow to the application client.