

CLAIMS

What is claimed is:

1. A method for reading data structures, comprising the following:

obtaining, by a blockchain node in a blockchain network, an invocation request

5 for a smart contract;

in response to the invocation request, running, by the blockchain node, contract code comprised in the smart contract, to parse a data structure described by metadata comprised in the smart contract, and use a computer programming language to specify the data structure; and

10 returning, by the blockchain node, the data structure specified by the computer programming language to an initiator of the invocation request.

2. The method according to claim 1, wherein the metadata is used to describe data comprised in the smart contract.

3. The method according to claim 1, wherein the computer programming
15 language comprises a language of a predetermined type or a language of a type indicated in the invocation request.

4. An apparatus for reading data structures, comprising the following:

an acquisition unit, configured to enable a blockchain node in a blockchain network to obtain an invocation request for a smart contract;

20 a responding unit, configured to respond to the invocation request, so that the blockchain node runs contract code comprised in the smart contract, to parse a data structure described by metadata comprised in the smart contract, and use a computer programming language to specify the data structure; and

a return unit, configured to enable the blockchain node to return the data
25 structure specified by the computer programming language to an initiator of the invocation request.

5. The apparatus according to claim 4, wherein the metadata is used to describe data comprised in the smart contract.

6. The apparatus according to claim 4, wherein the computer programming
30 language comprises a language of a predetermined type or a language of a type indicated in the invocation request.

7. An electronic device, comprising the following:

a processor; and
a memory configured to store a processor-executable instruction, wherein
the processor is configured to perform the method for reading data structures
according to any one of claims 1 to 3.

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