CLAIMS:

1. A computer-implemented method for executing blockchain contracts, comprising:

obtaining a bytecode of a blockchain contract, wherein:

the bytecode comprises a plurality of indicators,

the plurality of indicators comprise a first indicator indicating a virtual machine type for executing the blockchain contract and a second indicator indicating a virtual machine version for executing the blockchain contract,

the first indicator corresponds to a first byte of the bytecode of the blockchain contract,

the second indicator corresponds to a second byte of the bytecode of the blockchain contract, and

a third to an nth byte of the bytecode of the blockchain contract correspond to code for executing the blockchain contract, n being a natural number no less than three, and the first to the nth byte of the bytecode of the blockchain contract specifying an application binary interface (ABI) format; and

executing the blockchain contract using a virtual machine of the virtual machine type associated with the first indicator and of the virtual machine version associated with the second indicator.

2. The method of claim 1, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device the bytecode of the blockchain contract, wherein the bytecode is compiled from source code of the blockchain contract, and the source code comprises the plurality of indicators.

3. The method of claim 1, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device source code of the blockchain contract, the source code comprising the plurality of indicators; and

compiling the source code to obtain the bytecode of the blockchain contract.

4. The method of claim 1, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device a raw bytecode for executing the blockchain contract, wherein the raw bytecode is compiled from raw source code for executing the blockchain contract; and

adding the plurality of indicators to the raw bytecode to obtain the bytecode of the blockchain contract.

5. The method of claim 1, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device raw source code for executing the blockchain contract;

compiling the raw source code to obtain a raw bytecode; and

adding the plurality of indicators to the raw bytecode to obtain the bytecode of the blockchain contract.

6. The method of claim 1, wherein executing the blockchain contract using the virtual machine of the virtual machine type associated with the first indicator comprises:

triggering the virtual machine of the virtual machine type associated with the first indicator to deploy the blockchain contract on a corresponding blockchain, the deployed blockchain contract being associated with the virtual machine type.

7. The method of claim 6, wherein executing the blockchain contract using the virtual machine of the virtual machine type associated with the first indicator further comprises:

triggering the virtual machine of the virtual machine type associated with the first indicator to invoke the deployed blockchain contract.

8. The method of claim 1, wherein:

the virtual machine type for executing the blockchain contract comprises: a GNU compiler collection (GCC) virtual machine for executing blockchain contracts written in c++ programming language, a java virtual machine (JVM) for executing blockchain contracts written in java programming language, an Ethereum virtual machine (EVM) for executing blockchain

contracts written in solidity programming language, or a python virtual machine (PVM) for executing blockchain contracts written in python programming language.

9. A system for executing blockchain contracts, comprising one or more processors and one or more non-transitory computer-readable memories coupled to the one or more processors and configured with instructions executable by the one or more processors to cause the system to perform operations comprising:

obtaining a bytecode of a blockchain contract, wherein:

the bytecode comprises a plurality of indicators,

the plurality of indicators comprise a first indicator indicating a virtual machine type for executing the blockchain contract and a second indicator indicating a virtual machine version for executing the blockchain contract,

the first indicator corresponds to a first byte of the bytecode of the blockchain contract,

the second indicator corresponds to a second byte of the bytecode of the blockchain contract, and

a third to an nth byte of the bytecode of the blockchain contract correspond to code for executing the blockchain contract, n being a natural number no less than three, and the first to the nth byte of the bytecode of the blockchain contract specifying an application binary interface (ABI) format; and

executing the blockchain contract using a virtual machine of the virtual machine type associated with the first indicator and of the virtual machine version associated with the second indicator.

10. The system of claim 9, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device the bytecode of the blockchain contract, wherein the bytecode is compiled from source code of the blockchain contract, and the source code comprises the plurality of indicators.

11. The system of claim 9, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device a raw bytecode for executing the blockchain contract, wherein the raw bytecode is compiled from raw source code for executing the blockchain contract; and

adding the plurality of indicators to the raw bytecode to obtain the bytecode of the blockchain contract.

12. The system of claim 9, wherein executing the blockchain contract using the virtual machine of the virtual machine type associated with the first indicator comprises:

triggering the virtual machine of the virtual machine type associated with the first indicator to deploy the blockchain contract on a corresponding blockchain, the deployed blockchain contract being associated with the virtual machine type.

13. A non-transitory computer-readable storage medium for executing blockchain contracts, the storage medium coupled to the one or more processors and configured with instructions executable by the one or more processors to cause the one or more processors to perform operations comprising:

obtaining a bytecode of a blockchain contract, wherein:

the bytecode comprises a plurality of indicators,

the plurality of indicators comprise a first indicator indicating a virtual machine type for executing the blockchain contract and a second indicator indicating a virtual machine version for executing the blockchain contract,

the first indicator corresponds to a first byte of the bytecode of the blockchain contract,

the second indicator corresponds to a second byte of the bytecode of the blockchain contract, and

a third to an nth byte of the bytecode of the blockchain contract correspond to code for executing the blockchain contract, n being a natural number no less than three, and the first to the nth byte of the bytecode of the blockchain contract specifying an application binary interface (ABI) format; and

executing the blockchain contract using a virtual machine of the virtual machine type associated with the first indicator and of the virtual machine version associated with the second indicator.

14. The storage medium of claim 13, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device the bytecode of the blockchain contract, wherein the bytecode is compiled from source code of the blockchain contract, and the source code comprises the plurality of indicators.

15. The storage medium of claim 13, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device a raw bytecode for executing the blockchain contract, wherein the raw bytecode is compiled from raw source code for executing the blockchain contract; and

adding the plurality of indicators to the raw bytecode to obtain the bytecode of the blockchain contract.

16. The storage medium of claim 13, wherein: executing the blockchain contract using the virtual machine of the virtual machine type associated with the first indicator comprises:

triggering the virtual machine of the virtual machine type associated with the first indicator to deploy the blockchain contract on a corresponding blockchain, the deployed blockchain contract being associated with the virtual machine type.

17. The storage medium of claim 13, wherein executing the blockchain contract using the virtual machine of the virtual machine type associated with the first indicator further comprises:

triggering the virtual machine of the virtual machine type associated with the first indicator to invoke the deployed blockchain contract.

18. The storage medium of claim 13, wherein:

the virtual machine type for executing the blockchain contract comprises: a GNU compiler collection (GCC) virtual machine for executing blockchain contracts written in c++ programming language, a java virtual machine (JVM) for executing blockchain contracts written in java programming language, an Ethereum virtual machine (EVM) for executing blockchain contracts written in solidity programming language, or a python virtual machine (PVM) for executing blockchain contracts written in python programming language.

19. The system of claim 9, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device source code of the blockchain contract, the source code comprising the plurality of indicators; and

compiling the source code to obtain the bytecode of the blockchain contract.

20. The system of claim 9, wherein obtaining the bytecode of the blockchain contract comprises:

obtaining from a client device raw source code for executing the blockchain contract;

compiling the raw source code to obtain a raw bytecode; and

adding the plurality of indicators to the raw bytecode to obtain the bytecode of the blockchain contract.