

CLAIMS

1. A method for performing smart hybrid acceleration on resources having different security levels, comprising steps of:

receiving a handshake request from a client terminal; determining whether the handshake request contains a self-defined resource extension field; if the handshake request does not contain any self-defined resource extension field, acquiring a target domain name to be connected by the client terminal in the handshake request, and determining, according to a level of the target domain name, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method; and, if the handshake request contains a self-defined resource extension field, determining, according to content in the self-defined resource extension field, a resource level of a resource accessed by the client terminal, and determining, according to the resource level, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method;

the step of determining, according to a level of the target domain name, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method comprises: performing acceleration processing by a hardware acceleration method when it is determined that the level of the target domain name is a high security level, and performing acceleration processing by a software acceleration method when it is determined that the level of the target domain name is a low security level; and

the step of determining, according to content in the self-defined resource extension field, a resource level of a resource accessed by the client terminal and determining, according to the resource level, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method comprises:

in a case where the content in the self-defined resource extension field is a resource level of a resource accessed by the client terminal, performing acceleration processing by a hardware acceleration method when the resource level is a high security level, and performing acceleration processing by a software acceleration method when the resource level is a low security level;

or, in a case where the content in the self-defined resource extension field is a

resource type of a resource accessed by the client terminal, performing acceleration processing by a hardware acceleration method when it is determined according to the resource type that the corresponding resource level is a high security level, and performing acceleration processing by a software acceleration method when it is determined according to the resource type that the corresponding resource level is a low security level, wherein the resource type comprises a static resource type or a dynamic resource type.

2. The method for performing smart hybrid acceleration on resources having different security levels according to claim 1, wherein:

the step of determining whether the handshake request contains a self-defined resource extension field comprises: determining whether a client hello message of the handshake request contains the self-defined resource extension field.

3. A method for performing smart hybrid acceleration on resources having different security levels, comprising steps of:

receiving a handshake request from a client terminal, acquiring, from the handshake request, a target domain name to be connected by the client terminal in the handshake request, and determining, according to a level of the target domain name, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method;

or, receiving a handshake request from a client terminal, acquiring, from the handshake request, content in a self-defined resource extension field, determining, according to the content, a resource level of a resource accessed by the client terminal, and determining, according to the resource level, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method;

The step of determining, according to a level of the target domain name, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method comprises:

performing acceleration processing by a hardware acceleration method when it is determined that the level of the target domain name is a high security level, and performing acceleration processing by a software acceleration method when it is determined that the level of the target domain name is a low security level; and

the step of determining, according to the content in the self-defined resource extension field, a resource level of a resource accessed by the client terminal and determining, according to the resource level, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method comprises:

in a case where the content in the self-defined resource extension field is a resource level of a resource accessed by the client terminal, performing acceleration processing by a hardware acceleration method when the resource level is a high security level, and performing acceleration processing by a software acceleration method when the resource level is a low security level;

or, in a case where the content in the self-defined resource extension field is a resource type of a resource accessed by the client terminal, performing acceleration processing by a hardware acceleration method when it is determined according to the resource type that the corresponding resource level is a high security level, and performing acceleration processing by a software acceleration method when it is determined according to the resource type that the corresponding resource level is a low security level.

4. A device for performing smart hybrid acceleration on resources having different security levels, comprising:

a receiving module, configured to receive a handshake request from a client terminal;

a determination module, configured to determine whether the handshake request contains a self-defined resource extension field;

a first processing module, configured to: when the determination module determines that the handshake request does not contain any self-defined resource extension field, acquire a target domain name to be connected by the client terminal in the handshake request and determine, according to a level of the target domain name, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method; and

a second processing method, configured to: when the determination module determines that the handshake request contains a self-defined resource extension field,

determine, according to content in the self-defined resource extension field, a resource level of a resource accessed by the client terminal and determine, according to the resource level, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method;

wherein the receiving module and the determination module are positioned in a front-end apparatus, and the first processing module and the second processing module are position in a Content Delivery Network server or a non-CDN server; or, the receiving module, the determination module, the first processing module and the second processing module are all positioned in a CDN server or a non-CDN server;

the first processing module is further configured to perform acceleration processing by a hardware acceleration method when it is determined that the level of the target domain name is a high security level, and perform acceleration processing by a software acceleration method when it is determined that the level of the target domain name is a low security level; and

the second processing module is further configured to: when the content in the self-defined resource extension field is a resource level of a resource accessed by the client terminal, perform acceleration processing by a hardware acceleration method after it is determined that the resource level is a high security level, and perform acceleration processing by a software acceleration method after it is determined that the resource level is a low security level; and, when the content in the self-defined resource extension field is a resource type of a resource accessed by the client terminal, perform acceleration processing by a hardware acceleration method after it is determined according to the resource type that the corresponding resource level is a high security level, and perform acceleration processing by a software acceleration method after it is determined according to the resource type that the corresponding resource level is a low security level.

5. The device for performing smart hybrid acceleration on resources having different security levels according to claim 4, wherein:

the determination module is further configured to determine, according to the determination whether a client hello message of the handshake request contains a self-defined resource extension field, whether the handshake request contains a self-defined

resource extension field.

6. A device for performing smart hybrid acceleration on resources having different security levels, applied to a Content Delivery Network server or a non-CDN server, comprising:

a receiving module, configured to receive a handshake request from a client terminal; and

a processing module, configured to: acquire, from the handshake request, a target domain name to be connected by the client terminal in the handshake request, and determine, according to a level of the target domain name, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method; or, acquire, from the handshake request, content in a self-defined resource extension field, determine, according to the content, a resource level of a resource accessed by the client terminal, and determine, according to the resource level, whether acceleration processing is performed by a hardware acceleration method or a software acceleration method.;

the processing module is configured to: perform acceleration processing by a hardware acceleration method when it is determined that the level of the target domain name is a high security level, and perform acceleration processing by a software acceleration method when it is determined that the level of the target domain name is a low security level; the processing module is further configured to: when the content in the self-defined resource extension field is a resource level of a resource accessed by the client terminal, perform acceleration processing by a hardware acceleration method after it is determined that the resource level is a high security level, and perform acceleration processing by a software acceleration method after it is determined that the resource level is a low security level; and, the processing module is further configured to: when the content in the self-defined resource extension field is a resource type of a resource accessed by the client terminal, perform acceleration processing by a hardware acceleration method after it is determined according to the resource type that the corresponding resource level is a high security level, and perform acceleration processing by a software acceleration method after it is determined according to the resource type that the corresponding resource level is a low security level.

7. A computer-readable storage medium stored with computer programs that, when executed by a processor, implement the steps of the method according to any one of claims 1 to 2 and/or claim 3.

8. A computer apparatus, comprising a memory, a processor and computer programs that are stored on the memory and can be run on the processor, the processor implementing the steps of the method according to any one of claims 1 to 2 and/or claim 3 when executing the computer programs.