CLAIMS

1. A network message processing method, comprising:

reading a first network message from a first queue maintained in a first server;

querying a queue mapping table maintained in a data processing unit to determine a destination second queue to which the first network message is to be transmitted, and storing the first network message in the destination second queue, wherein the queue mapping table is used to record a mapping relationship between first queues maintained in the first server and second queues maintained in the data processing unit, and a quantity of the first queues is greater than a quantity of the second queues; and

calling a message distribution module in the data processing unit, and reading, through the message distribution module, the first network message from the destination second queue and transmitting the first network message to a destination second server through a network, wherein the destination second server is determined from a plurality of second servers according to destination address information in the first network message, and the plurality of second servers correspond to a queue identifier of the first queue.

2. The network message processing method according to claim 1, wherein the calling the message distribution module in the data processing unit, and reading, through the message distribution module, the first network message from the destination second queue and transmitting the first network message to the destination second server through the network comprises:

calling the message distribution module in the data processing unit, and controlling the message distribution module to use a multi-thread mode, wherein one second queue in the data processing unit is allocated for each thread, and different threads correspond to different second queues; and

calling a first target thread corresponding to the destination second queue, and reading, through the first target thread, the first network message and transmitting the first network message to the destination second server through the network.

3. The network message processing method according to claim 2, wherein the reading, through the first target thread, the first network message and transmitting the first network message to the destination second server through the network comprises:

determining the first queue from which the first network message comes, and determining a second target thread having a mapping relationship with the first queue, wherein the second target thread is a thread on the data processing unit and each first queue of the first server is provided with a corresponding thread;

if the second target thread is not a same thread as the first target thread, reading, through the first target thread, the first network message and forwarding the first network message to the second target thread; and

transmitting, through the second target thread, the first network message to the destination second server through the network.

4. The network message processing method according to claim 3, further comprising:

determining a target second queue corresponding to the second target thread; and

updating, in the queue mapping table, a mapping relationship between the first queue and the destination second queue to a mapping relationship between the first queue and the target second queue.

5. The network message processing method according to claim 1, further comprising:

calling the message distribution module in the data processing unit, and obtaining a second network message, wherein the second network message carries a target first queue to which the second network message is to be transmitted;

storing the second network message in any one second queue in the data processing unit; and

reading the second network message from the any one second queue, identifying the target first queue to which the second network message is to be transmitted, and transmitting the second network message to the target first queue.

6. The network message processing method according to any one of claims 1 to 5, wherein the queue mapping table maintains a mapping relationship between a plurality of first queues and a plurality of second queues, wherein one first queue is mapped to only one second queue, and one second queue supports mapping of a plurality of first queues.

7. The network message processing method according to any one of claims 1 to 5, wherein the reading, through the message distribution module, the first network message from the destination second queue and transmitting the first network message to the destination second server through the network comprises:

reading, through the message distribution module, the first network message from the destination second queue, identifying the destination second server to which the first network message is to be transmitted, and transmitting the first network message to the destination second server through the network.

8. A network message processing device, comprising:

a reading unit, configured to read a first network message from a first queue maintained in a first server;

a querying unit, configured to query a queue mapping table maintained in a data processing unit to determine a destination second queue to which the first network message is to be transmitted, and store the first network message in the destination second queue, wherein the queue mapping table is used to record a mapping

relationship between first queues maintained in the first server and second queues maintained in the data processing unit, and a quantity of the first queues is greater than a quantity of the second queues; and

a calling unit, configured to call a message distribution module in the data processing unit, and read, through the message distribution module, the first network message from the destination second queue and transmit the first network message to a destination second server through a network, wherein the destination second server is determined from a plurality of second servers according to destination address information in the first network message, and the plurality of second servers correspond to a queue identifier of the first queue.

9. The network message processing device according to claim 8, wherein the calling unit is specifically configured to:

call the message distribution module in the data processing unit, and control the message distribution module to use a multi-thread mode, wherein one second queue in the data processing unit is allocated for each thread, and different threads correspond to different second queues; and

call a first target thread corresponding to the destination second queue, and read, through the first target thread, the first network message and transmit the first network message to the destination second server through the network.

10. The network message processing device according to claim 9, wherein when reading, through the first target thread, the first network message and transmitting the first network message to the destination second server through the network, the calling unit is specifically configured to:

determine the first queue from which the first network message comes, and determine a second target thread having a mapping relationship with the first queue, wherein the second target thread is a thread on the data processing unit and each first queue of the first server is provided with a corresponding thread;

if the second target thread is not a same thread as the first target thread, read, through the first target thread, the first network message and forward the first network message to the second target thread; and

transmit, through the second target thread, the first network message to the destination second server through the network.

11. The network message processing device according to claim 10, wherein the calling unit is further configured to:

determine a target second queue corresponding to the second target thread; and

update, in the queue mapping table, a mapping relationship between the first queue and the destination second queue to a mapping relationship between the first queue and the target second queue.

12. The network message processing device according to claim 8, wherein the network message processing

device further includes a forwarding unit, configured to:

call the message distribution module in the data processing unit, and obtain a second network message, wherein the second network message carries a target first queue to which the second network message is to be transmitted;

store the second network message in any one second queue in the data processing unit; and

read the second network message from the any one second queue, identify the target first queue to which the second network message is to be transmitted, and transmit the second network message to the target first queue.

13. The network message processing device according to any one of claims 8 to 12, wherein the queue mapping table maintains a mapping relationship between a plurality of first queues and a plurality of second queues, where one first queue is mapped to only one second queue, and one second queue supports mapping of a plurality of first queues.

14. The network message processing device according to any one of claims 8 to 12, wherein the calling unit is specifically configured to:

read, through the message distribution module, the first network message from the destination second queue, identify the destination second server to which the first network message is to be transmitted, and transmit the first network message to the destination second server through the network.

15. A computer-readable storage medium, wherein the computer-readable storage medium stores computer-execution instructions, and when a processor executes the computer-execution instructions, the following operations are implemented:

reading a first network message from a first queue maintained in a first server;

querying a queue mapping table maintained in a data processing unit to determine a destination second queue to which the first network message is to be transmitted, and storing the first network message in the destination second queue, wherein the queue mapping table is used to record a mapping relationship between first queues maintained in the first server and second queues maintained in the data processing unit, and a quantity of the first queues is greater than a quantity of the second queues; and

calling a message distribution module in the data processing unit, and reading, through the message distribution module, the first network message from the destination second queue and transmitting the first network message to a destination second server through a network, wherein the destination second server is determined from a plurality of second servers according to destination address information in the first network message, and the plurality of second servers correspond to a queue identifier of the first queue.

16. The storage medium according to claim 15, wherein the calling the message distribution module in the data processing unit, and reading, through the message distribution module, the first network message from the destination second queue and transmitting the first network message to the destination second server through the network comprises:

calling the message distribution module in the data processing unit, and controlling the message distribution module to use a multi-thread mode, wherein one second queue in the data processing unit is allocated for each thread, and different threads correspond to different second queues; and

calling a first target thread corresponding to the destination second queue, and reading, through the first target thread, the first network message and transmitting the first network message to the destination second server through the network.

17. The storage medium according to claim 16, wherein the reading, through the first target thread, the first network message and transmitting the first network message to the destination second server through the network comprises:

determining the first queue from which the first network message comes, and determining a second target thread having a mapping relationship with the first queue, wherein the second target thread is a thread on the data processing unit and each first queue of the first server is provided with a corresponding thread;

if the second target thread is not a same thread as the first target thread, reading, through the first target thread, the first network message and forwarding the first network message to the second target thread; and

transmitting, through the second target thread, the first network message to the destination second server through the network.

18. The storage medium according to claim 17, wherein the following operations are implemented:

determining a target second queue corresponding to the second target thread; and

updating, in the queue mapping table, a mapping relationship between the first queue and the destination second queue to a mapping relationship between the first queue and the target second queue.

19. The storage medium according to claim 15, wherein the following operations are implemented:

calling the message distribution module in the data processing unit, and obtaining a second network message, wherein the second network message carries a target first queue to which the second network message is to be transmitted;

storing the second network message in any one second queue in the data processing unit; and

reading the second network message from the any one second queue, identifying the target first queue to which the second network message is to be transmitted, and transmitting the second network message to the

target first queue.

20. The storage medium according to any one of claims 15 to 19, wherein the queue mapping table maintains a mapping relationship between a plurality of first queues and a plurality of second queues, wherein one first queue is mapped to only one second queue, and one second queue supports mapping of a plurality of first queues.