CLAIMS

1. A port multiplexing method compatible with multi-port use, being characterized in that, the method comprising:

generating a target task identification code when issuing a target task, and sending the target task identification code to a client and a server performing the target task, and performing information configuration on the client and the server to define one piece of task information and three pairs of communication information;

generating by the client a virtual address and a virtual port according to the target task identification code, and establishing by the client a client mapping table with a proxy address; generating by the server a virtual address and a virtual port according to the target task identification code, and establishing by the server a server mapping table with the server address and the server port;

establishing by the client a first channel according to the client mapping table, establishing by the client a socket connection through the first channel, and sending by the client the first channel information to the server; establishing by the server a second channel according to the server mapping table, and binding by the server the second channel and the socket connection into a communication channel through first channel information, wherein the communication channel is used for realizing the communication between the client and the server;

wherein the task information is a random ID generated when a task is issued, the client and the server of the same task get the same ID;

wherein the communication information comprises:

server address and server port;

proxy address and proxy port;

virtual address and virtual port; wherein the virtual address equals to tmp_id, and

the virtual port equals to a remainder after diving the hash value of tmp_id by the maximum value of u32; the tmp_id is generated by information of vertical dimension and horizontal dimension; the vertical dimension uses the task information to distinguish different tasks, and the horizontal dimension uses proxy information and the virtual port is used as channel name;

wherein the operation of binding the second channel and the socket connection into a communication channel through first channel information comprises:

performing socket binding on the first channel and the second channel with the same name; wherein the first channel information comprises the first channel name, the first channel name is generated through the virtual port of the client; and the second channel name is generated through the virtual port of the server.

2. The method according to Claim 1, the number of servers performing the target task may be multiple, being characterized in that, the operation of performing information configuration on the client and the server comprises:

distinguishing different servers that perform the target task by using proxy information and/or corresponding server information.

3. The method according to Claim 1, being characterized in that, the operation of establishing by the client a first channel according to the client mapping table and establishing by the client a socket connection through the first channel comprises:

establishing by the client the first channel according to the virtual address and the virtual port, wherein the virtual port is used as a first channel name, and the socket connection is established according to the virtual address and the virtual port.

4. The method according to Claim 1, being characterized in that, the operation of establishing by the server a second channel according to the server mapping table comprises:

establishing a second channel according to the virtual address and the virtual port in the server mapping table,

wherein the virtual port is used as a second channel name.

5. A port multiplexing system compatible with multi-port use, being characterized in that, the system comprising:

an issuing module, being configured to generate a target task identification code when issuing a target task, and send the target task identification code to a client and a server performing the target task, and perform information configuration on the client and the server to define one piece of task information and three pairs of communication information;

a generating module, being configured to generate by the client a virtual address and a virtual port according to the target task identification code, and establish a client mapping table with a proxy address; the server generating a virtual address and a virtual port according to the target task identification code, and establishing a server mapping table with the server address and the server port;

a communication module, being configured to establish by the client a first channel according to the client mapping table, establish a socket connection through the first channel, and send first channel information to the server; the server establishing a second channel according to the server mapping table, and binding the second channel and the socket connection into a communication channel through the first channel information, wherein the communication channel is used for realizing the communication between the client and the server;

wherein the task information is a random ID generated when the system issues a task, the client and the server of the same task get the same ID;

wherein the communication information comprises:

server address and server port;

proxy address and proxy port;

virtual address and virtual port; wherein the virtual address equals to tmp_id, and the virtual port equals to a remainder after diving the hash value of tmp_id by the maximum value of u32; the tmp_id is generated by information of vertical dimension and horizontal dimension; the vertical dimension uses the task information to distinguish different tasks, and the horizontal dimension uses proxy information and the virtual port is used as channel name;

wherein the operation of binding the second channel and the socket connection into a communication channel through first channel information comprises:

performing socket binding on the first channel and the second channel with the same name; wherein the first channel information comprises the first channel name, the first channel name is generated through the virtual port of the client; and the second channel name is generated through the virtual port of the server.

6. The system according to Claim 5, the number of servers performing the target task may be multiple, being characterized in that, the operation of performing information configuration on the client and the server in the issuing module comprises:

distinguishing different servers that perform the target task by using proxy information and/or corresponding server information.

7. The system according to Claim 5, being characterized in that, the operation of establishing by the client a first channel according to the client mapping table and establishing a socket connection through the first channel in the communication module comprises:

establishing by the client the first channel according to the virtual address and the virtual port, wherein the virtual port is used as a first channel name, and socket

connection is established according to the virtual address and the virtual port.

8. The system according to Claim 5, being characterized in that, the operation of establishing by the server a second channel according to the server mapping table in the communication module comprises:

establishing a second channel according to the virtual address and the virtual port in the server mapping table, wherein the virtual port is used as a second channel name.