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C++网络编程笔记

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摘要: 环境准备 codeblocks 1 Settings-Compiler-Linker Settings中添加~\CodeBlocks\MinGW\lib\libwsock32.a 2 #include <winsock2.h> vs2010 #include <winsock2.h> #prag...

环境准备

codeblocks

1 Settings-Compiler-Linker Settings中添加~\CodeBlocks\MinGW\lib\libwsock32.a

2 #include <winsock2.h>

vs2010

#include <winsock2.h>
#pragma comment(lib, "ws2_32")

获取本机IP:

#include <iostream>
#include <winsock2.h>

```
using namespace std;
int main()
{
    WSADATA wsaData;
    WORD version = MAKEWORD(2, 2);
    if(::WSAStartup(version, &wsaData) != 0)
    {
        exit(0);
    }
    char szHost[256];
    ::gethostname(szHost, 256);
    hostent *pHost = ::gethostbyname(szHost);
    in_addr addr;
    for (int i = 0; i++)
        char *p = pHost->h_addr_list[i];
       if (p == NULL)
       memcpy(&addr.S_un.S_addr, p, pHost->h_length);
       char *szIp = ::inet_ntoa(addr);
        cout<<szIp<<endl;
    ::WSACleanup();
    return 0:
}
```

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(mailto

最简单的TCP程序:

```
服务器:
 #include <iostream>
 #include <winsock2.h>
 #pragma comment(lib, "ws2_32")
 using namespace std;
 int main()
WORD version = MAKEWORD(2, 2);
    WSAStartup(version, &wsaData);
    SOCKET sListen = ::socket(AF_INET, SOCK_STREAM, IPPROTO_TCP);
    if (sListen == INVALID_SOCKET)
        return 0;
    sockaddr_in sin;
    sin.sin_family = AF_INET;
    sin.sin_port = htons(4567);
    sin.sin_addr.S_un.S_addr = INADDR_ANY;
    if (::bind(sListen, (LPSOCKADDR)&sin, sizeof(sin)) == SOCKET_ERROR)
    {
        cout<<"Failed bind()"<<endl;</pre>
        return 0;
    if (::listen(sListen, 2) == SOCKET_ERROR)
        cout<<"Failed listen()"<<endl;</pre>
        return 0;
    }
    sockaddr_in remoteAddr;
    int nAddrLen = sizeof(remoteAddr);
    SOCKET sClient;
    char szText[] = "TCP Server Demo!\r\n";
    while (true)
        //sClient = ::accept(sListen, (SOCKADDR*)&remoteAddr, &nAddrLen);
        sClient = ::accept(sListen, (LPSOCKADDR)&remoteAddr, &nAddrLen);
       if (sClient == INVALID_SOCKET)
           cout<<"Failed accept()";</pre>
           continue;
```

cout<<"Received an connection: "<<inet ntoa(remoteAddr.sin addr)<<endl;</pre>

::send(sClient, szText, strlen(szText), 0);

::closesocket(sClient);

::closesocket(sListen);

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客户端:

return 0:

(mailto inc.co

```
#include <iostream>
 #include <winsock2.h>
 #pragma comment(lib, "ws2_32")
 using namespace std;
 int main()
 {
     WSADATA wsaData;
     WORD version = MAKEWORD(2, 2);
     if (::WSAStartup(version, &wsaData) != 0)
:e.weibo.com/share/share.php? %2B%_E7%BD%91%E7%BB%9C%E7%BC%96%E7%A8%8B%E7%AC%94%E8%AE%B0+%0A%E7%8E%AF%E5%A2%83%E5%87%86%E5%A4%87%0Acodeblocks%0A1+Setting
     SOCKET s = ::socket(AF_INET, SOCK_STREAM, IPPROTO_TCP);
     if (s == INVALID_SOCKET)
     {
         cout<<"Failed socket()"<<endl;</pre>
         return 0;
     sockaddr_in servAddr;
     servAddr.sin_family = AF_INET;
     servAddr.sin_port = htons(4567);
     servAddr.sin_addr.S_un.S_addr = inet_addr("127.0.0.1");
     if (::connect(s, (sockaddr*)&servAddr, sizeof(servAddr)) == -1)
     {
         cout<<"Failed connect()"<<endl;</pre>
         return 0;
     }
     char buff[255];
     int nRecv = ::recv(s, buff, 256, 0);
     if (nRecv > 0)
     {
         buff[nRecv] = '\0';
         cout<<"Received information: "<<buff<<endl;</pre>
     ::closesocket(s);
     ::WSACleanup();
     return 0;
```

最简单的UDP程序:

服务器:

(mailto

```
#include <iostream>
 #include <winsock2.h>
 #pragma comment(lib, "ws2_32")
 using namespace std;
 int main()
 {
     WSADATA wsaData;
     WORD version = MAKEWORD(2, 2);
     if (::WSAStartup(version, &wsaData) != 0)
:e.weibo.com/share/share.php? %2B%_E7%BD%91%E7%BB%9C%E7%BC%96%E7%A8%8B%E7%AC%94%E8%AE%B0+%0A%E7%8E%AF%E5%A2%83%E5%87%86%E5%A4%87%0Acodeblocks%0A1+Setting
     SOCKET s = ::socket(AF_INET, SOCK_DGRAM, IPPROTO_UDP);
     if (s == INVALID_SOCKET)
     {
         cout<<"Failed socket()\n";</pre>
         return 0;
     sockaddr_in sin;
     sin.sin_family = AF_INET;
     sin.sin_port = htons(4567);
     sin.sin_addr.S_un.S_addr = INADDR_ANY;
     if (::bind(s, (LPSOCKADDR)&sin, sizeof(sin)) == SOCKET_ERROR)
     {
         cout<<"Failed bind()\n";</pre>
         return 0;
     char buff[1024];
     sockaddr_in addr;
     int nLen = sizeof(addr);
     while (true)
     {
         int nRecv = ::recvfrom(s, buff, 1024, 0, (sockaddr*)&addr, &nLen);
         if (nRecv > 0)
         {
             buff[nRecv] = '\0';
             cout<<"Received information ("<<inet_ntoa(addr.sin_addr)<<"):"<<buff<<endl;</pre>
         }
     ::closesocket(s);
     ::WSACleanup();
     return 0;
 }
客户端:
 #include <iostream>
 #include <winsock2.h>
 #pragma comment(lib, "ws2_32")
 using namespace std;
 int main()
 {
     WSADATA wsaData;
     WORD version = MAKEWORD(2, 2);
     if (::WSAStartup(version, &wsaData) != 0)
     {
         exit(0);
     }
     SOCKET s = ::socket(AF_INET, SOCK_DGRAM, IPPROTO_UDP);
     if (s == INVALID_SOCKET)
     {
         cout<<"Failed socket()\n";</pre>
         return 0;
     sockaddr_in addr;
     addr.sin_family = AF_INET;
     addr.sin_port = htons(4567);
     addr.sin_addr.S_un.S_addr = inet_addr("127.0.0.1");
                                                                                                                                                      (mailto
                                                                                                                                                      inc.co
     char szText[] = "TCP Server Demo!\r\n";
     ::sendto(s, szText, strlen(szText), 0, (sockaddr*)&addr, sizeof(addr));
     closesocket(s);
     ::WSACleanup();
     return 0:
 }
```

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