

计算机端 socket 编程例子

/*

该代码是卓岚 zlsn2000 的 socket 通信例子，转载请注明出处

若出现：Link Error: unresolved external symbol __beginthreadex

解决方法：

菜单 Project -> Settings -> C/C++ 标签页

Category 处选择 Code Generation

"use run-time library" 选择：

当你的编译配置为 Debug 时选择"debug multithreaded" 或"debug multithreaded DLL"；

编译配置为 Release 时选择"Multithreaded" 或"Multithreaded DLL"；

Socket 代码如下：

*/

```
#include <afxsock.h>
```

```
// 选择 0 为阻塞模式，1 为非阻塞模式
```

```
#define UN_BLOCK      0
```

```
#define RECV_BUF_SIZE 256
```

```
int main()
```

```
{
```

```
    int s;
```

```
    struct sockaddr_in servaddr;
```

```
    int recv_size;
```

```
    char buf[RECV_BUF_SIZE];
```

```
    char send_string[] = "www.zlmcu.com";
```

```
#if UN_BLOCK
```

```
    unsigned long opt;
```

```
    fd_set r;
```

```
    struct timeval tmo;
```

```
#endif
```

```
    if(!AfxSocketInit())
```

```
    {
```

```
        printf("\nSocket init fail!");
```

```
        return 0;
```

```
    }
```

```
    s = socket(PF_INET, SOCK_STREAM, 0);
```

```
    servaddr.sin_family = AF_INET;
```

```
    servaddr.sin_port = htons(4196);
```

```
    servaddr.sin_addr.S_un.S_addr = inet_addr("192.168.1.200");
```

```
    connect(s, (const struct sockaddr *)&servaddr, sizeof(struct sockaddr_in));
```

```

#if UN_BLOCK
    opt = TRUE;
    ioctlsocket(s, FIONBIO, &opt);
#endif

    send(s, send_string, strlen(send_string), 0);

#if UN_BLOCK
    FD_ZERO(&r);
    tmo.tv_sec = 5;
    tmo.tv_usec = 0;
    FD_SET(s, &r);
    if(select(0, &r, NULL, NULL, &tmo) <= 0)
    {
        closesocket(s);
        return;
    }
#endif

    recv_size = recv(s, buf, RECV_BUF_SIZE-1, 0);
    if(recv_size >= 0)
    {
        buf[recv_size] = 0;
        printf("recv %d:%s",recv_size, buf);
    }
    else
    {
        printf("recv fail");
    }

    closesocket(s);
    printf("\n");
    return 1;
}

```