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));
```

```c
#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;
}
```