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/**
HHARemoteClient.cpp
*/
#include <iostream>
#include <winsock2.h>
using namespace std;
#define ICMD_START 0x02
#define ICMD_STOP 0x01

int main(int argc, char **argv) {
    struct hostent *hp;
    struct sockaddr_in saddr, caddr;
    int sock, len, fromlen;
    int port = 19861; //port we used to communicate with host
    char *dest = "localhost"; //host run on local machine
    char msg[1]; //store MSG
    msg[0] = 0;
    if(argc == 2) {
        if(stricmp(argv[1], "start")==0) {
            msg[0] = char(ICMD_START);
        }
        else if(stricmp(argv[1], "stop")==0) {
            msg[0] = char(ICMD_STOP);
        }
        else { //invalid argument
            exit(0);
        }
    }
    else { //invalid number of argument
        exit(0);
    }
    //set up windows socket environment
    WSADATA WsaDat;
    if (WSAStartup(MAKEWORD(2,2), &WsaDat) != 0) {
        cerr<<"Couldn't Init"<<endl;
        exit(-1);
    }

    //create socket
    if((sock = socket(AF_INET, SOCK_STREAM, 0)) < 0) {
        cerr<<"sock create failed"<<endl;
        exit(-1);
    }

    //get host address
    if((hp = gethostbyname(dest)) == NULL) {
        cerr<<"can't get host name"<<endl;
        exit(-1);
    }

    memset(&saddr, 0, sizeof(saddr));
    saddr.sin_family = AF_INET;
    saddr.sin_addr.S_un.S_un_b.s_b1 = (unsigned char)hp->h_addr_list[0][0];
    saddr.sin_addr.S_un.S_un_b.s_b2 = (unsigned char)hp->h_addr_list[0][1];
    saddr.sin_addr.S_un.S_un_b.s_b3 = (unsigned char)hp->h_addr_list[0][2];
    saddr.sin_addr.S_un.S_un_b.s_b4 = (unsigned char)hp->h_addr_list[0][3];
    saddr.sin_port = htons(port);

    //create connection
    int conn;
    if((conn = connect(sock, (LPSOCKADDR)&saddr, sizeof(saddr))) < 0) {
        cerr<<"sock connect failed "<<endl;
        perror("Error: ");
        closesocket(sock);
        exit(-1);
    }

    do {
        len = send(sock, msg, 1, 0); //set cmd to host
    } while(len != 1);
    Sleep(200); //sleep a while before close, otherwise the socket might close before the msg sent out
    closesocket(sock); //close the socket
    return 0;
}

```