

Exemplo UDP: Port listener

Este exemplo implementa um servidor UDP que ouve a porta 4950, recebe um pacote e exibe seu conteúdo.

[listener.c](#)

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <errno.h>
#include <string.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <arpa/inet.h>

// the port I'll listen to
#define RCVR_PORT 4950

// input buffer size
#define MAXBUFLEN 100

int main(void)
{
    int sockfd;
    struct sockaddr_in rcvr_addr;
    struct sockaddr_in sndr_addr;
    int numbytes;
    socklen_t addr_len;
    char buf[MAXBUFLEN];

    // creates the UDP socket
    if ((sockfd = socket (AF_INET, SOCK_DGRAM, 0)) == -1)
    {
        perror("socket");
        exit(1);
    }

    // fills struct with receiver's info
    rcvr_addr.sin_family = AF_INET;
    rcvr_addr.sin_port = htons(RCVR_PORT); // short, network byte order
    rcvr_addr.sin_addr.s_addr = INADDR_ANY; // automatically fill with my IP
    memset(&(rcvr_addr.sin_zero), '\0', 8); // zero the rest of the struct

    // associates the socket to receiver's data (addr & port)
    if (bind (sockfd, (struct sockaddr *) &rcvr_addr,
             sizeof (struct sockaddr)) == -1)
    {
        perror("bind");
        exit(1);
    }

    // waits for a packet arriving to the socket
    addr_len = sizeof(struct sockaddr);
```

```
printf ("Listening for packets at port %d\n", RCVR_PORT) ;
numbytes = recvfrom(sockfd, buf, MAXBUFLen-1 , 0,
                   (struct sockaddr *) &snr_addr, &addr_len) ;
if (numbytes == -1)
{
    perror ("recvfrom");
    exit (1);
}

// prints packet info and contents
printf ("Got packet from host %s:%d\n",
        inet_ntoa (snr_addr.sin_addr), ntohs(snr_addr.sin_port));
buf[numbytes] = '\0';
printf ("Packet is %d bytes long and contains \"%s\"\n", numbytes, buf);

// closes the socket
close (sockfd);

return 0;
}
```

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