

## Re: ftp LIST in C

**Source:** <http://unix.derkeiler.com/Newsgroups/comp.unix.programmer/2003-04/1133.html>

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**Date:** 04/25/03

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Date: Fri, 25 Apr 2003 00:49:26 +0100

"zhisol" <[zhisol@o2.pl](mailto:zhisol@o2.pl)> wrote:

>I've stated writing simple application for linux that list directory of  
>ftp server. I plan list subdirectories, too. But now, i have a **PROBLEM**.  
>I use sockets.  
>  
>Connecting is simple, after assigni used only:  
>sd=socket(...)//sd-socket descriptor  
>connect(sd,...)  
>for USER, PASS, TYPE A, PASV, PWD i used:  
>send(sd,"USER\r\n",...)  
>recv(sd,...)  
>[...]  
>  
>and everything was OK, but with LIST... here i have **BIG** problem.  
>How can i receive data from ftp? Loop with recv() do nothing :(  
>  
>I suppose that list return data and require new port open on client, but  
>i don't know how can i know which port number? For connection to ftp i  
>open port 21 and that's ok, but what know, I jammed :(.  
>  
>Could You help me?  
>  
>#cut of my code:  
>[...]  
>send(sd,"LIST\r\n", strlen("LIST") + 2, 0);  
>n = recv (sd, buf, sizeof (buf), 0); //sd-socket descriptor  
>while (n > 0)  
>{  
>buf[n] = '\0';  
>printf ("%s", buf);  
>n = recv (sd, buf, sizeof (buf), 0);  
>}  
>  
>PS:sorry for my english;)

comp.unix.programmer: Re: ftp LIST in C

There are two connections needed, port 21 for commands, port 20 for data. You're asking for data, "LIST" on port 21 returns \*data\* and hence is sent to port 20.