

Re: ZModem communication within C Applications?

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On 2006-07-19, dao@xxxxxxxxxxxxxx <dao@xxxxxxxxxxxxxx> wrote:

Hi, I have to develop a C based application that will be able to utilize one of the many 'sz' (ZModem send) applications to transfer data across a modem line. I have some question on this process.

'sz' sends and receives the data (from rz) over stdin and stdout, but I've a single file descriptor to readign and writing to the modem. So tere seems to be a disconnect here in the way both sides are operating. I just simply won't be able to fork or popen the 'sz' executable and expect the file automagically appear on the other side.

redirect stdout/stdin to/from the modem device.

something like this: (from memory so check each line carefully)

dup2() would seem well-suited for this

```
int zmodem_result=-1;

if (( childpid = fork())
{ /* child code */
dup2(modem_fd,0); // connect modem to stdin
dup2(modem_fd,1); // and stdout
execlp("rz","rz",NULL); // run rz
perror("exec() of rz failed"); // something went wrong, say what it was.
exit(-1); // give up let main task proceed.
}
else if (childpid>0)
wait( &zmodem_resiult )
else perror("fork failed");
```

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What might be the best way to go about this process? Where to start?
Would there by chance be a ZModem package out there best suited for
this purpose?

I only know of two. the Omen one and the GNU one, the GNU one seems fine,
the Omen one was good too but I lost my copy.

for more hints, you could look at the source to minicom.

Bye.
Jasen

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