

Re: WriteFile is sending screwy data to the Serial Port

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"Bruce Eitman \((eMVP)\)" <beitmannospam@nospam.neo.rr.com> wrote in message news:<O0iER#5bEHA.1356@TK2MSFTNGP09.phx.gbl>...

- > As a sanity check, try putting it in a debugger and change to CreateFile on
- > a text file. That will allow you to debug the code first, then you can
- > debug the serial.
- >
- > The problem isn't on the receiving end is it?

Here's my setup: I have a WinCE device (LogicPD LH7A400, ARM922T chip) which is acting as a front end for a 1970s style moisture sensor. I currently have the device connected to my PC via a 9-pin serial cable and I'm using Tera Term to monitor the output. This way, I can see what data would be passed to the target device in a real-world situation.

I used the EVC debugger in emulator mode, which helped me work out a few annoying kinks elsewhere in the program. However, I could find no reason why WriteFile shouldn't print 'M', 'C', 'L', and '?'. I believe the debugger may have helped my sanity though, Bruce.

When using the debugger, I can see the value of the parameters being passed to WriteFile, so I know the data isn't mangled before being written. It's only after the data is transmitted that the value of the data is off by either 192 (A0) or 160 (C0). The offset is dependent on the original value of the character, not the order in which the characters are printed (I have determined experimentally).

This leads me to question the integrity of pin 3 (Transmitted Data) on my DB9 Serial Port. Or, there could be a quirk in WriteFile that I'm unaware of. Or, I simply have stored the data in an inappropriate data type. If so, I am curious as to what type of data type I should use.

The serial port reads fine given the same settings (GENERIC_READ | GENERIC_WRITE, 9600, 8 and 1). If I change the OpenPort function to

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open a file on the flash card, I can write data fine. But writing to the serial port only creates mangled output. I've read the data 4 different ways on 3 different machines (A PC, a laptop, and the intended target device). I always get the same errors -- phi instead of M, infinity instead of L, and pi instead of C.

To paint a more complete picture, here's how I'm calling DoTxData():

```
bool SendM(HWND hWnd)
{
```