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If I add some debug output in the USB library where the data is being put onto the USB FIFO from our buffer pointers I see it being written correctly into the EP FIFO registers in order ok, but different data is being received.

Any hints as to what we're doing wrong here?

Oh yes, our functions for sending are:

```

static int8_t CDC_Init_FS(void)
{
    /* USER CODE BEGIN 3 */
    /* Set Application Buffers */
    USBD_CDC_SetTxBuffer(&hUsbDeviceFS, UserTxBufferFS, 0);
    USBD_CDC_SetRxBuffer(&hUsbDeviceFS, UserRxBufferFS);
    FIFO_Init(&usbRxFifo, usbRxBuffer, USB_RX_BUFF_SIZE);
    FIFO_Init(&usbTxFifo, usbTxBuffer, USB_TX_BUFF_SIZE);
    usbLastTxLen = 0;
    UplinkDecoderInit(&usbRxState);
    state = 0;
    return (USB_OK);
    /* USER CODE END 3 */
}

uint8_t CDC_Transmit_FS(uint8_t* Buf, uint16_t Len)
{
    uint8_t result = USB_OK;
    /* USER CODE BEGIN 7 */
    USBD_CDC_HandleTypeDef *hcdc = (USBD_CDC_HandleTypeDef*)hUsbDeviceFS.pClassData;
    if (hcdc->TxState != 0){
        return USB_BUSY;
    }
    USBD_CDC_SetTxBuffer(&hUsbDeviceFS, Buf, Len);
    result = USBD_CDC_TransmitPacket(&hUsbDeviceFS);
    /* USER CODE END 7 */
    return result;
}

```

Thanks, Dave