Home / Study Guide Comments

- Section: Introducing the 1
- 2 Section: Creating a polled
- Section: Queue-based dri
- Section: A buffer-based d
- Section: Configuring DM
- Section: A buffer-based d
- Section: Stream buffers (

Chapter 10: bugs and clarifications

11/23/2021

Chapter 10: Drivers and ISRs (pg 235)

1 Section: Introducing the UART (page 236)

- Additional info, page 237
 - o The pin specifications for the board are defined in the board's user-manual
 - STM32 Nucleo-144 boards : User manual
 - o Page 32 shows the connectors



- Clarification, pg 239
 - o For step 5:
 - The book doesn't state where that code is. It's in initUart4Pins(), in the file:
 - C:\projects\packtBookRTOS\BSP\UartQuickDirtyInit.c
 - initUart4Pins() is called from STM_UartInit(). Both functions are in that file.
 - o For step 6:
 - The book doesn't state where the function-call is. It's in STM UartInit(), also in:
 - C:\projects\packtBookRTOS\BSP\UartQuickDirtyInit.c
 - My notes:
 - STM_UartInit() is called from all of the Chapter 10 example-programs in the directory:
 - o C:\projects\packtBookRTOS\Chapter_10\Src\
 - mainUartDMABuff.c
 - mainUartDMAStreamBuffer.c
 - mainUartDMAStreamBufferCont.c
 - mainUartInterruptBuff.c
 - mainUartInterruptQueue.c
 - mainUartPolled.c
 - Uart4Setup.c
 - o For step 9:
 - UartQuickDirtyInit.c is referenced, and it includes the two functions: initUart2Pins() and initUart4Pins().
 - I was initially puzzled by those functions as I misread their names:
 - o For initUart2Pins(), the intended reading of the name is: "initialize UART-2's pins".
 - o How I initially read the name was: "initialize the UART to operate with 2 pins"
 - Also, initUart2Pins() is misnamed as it initializes USART-2, not UART-2.
- Bug in the code (UartQuickDirtyInit.c), page 239
 - o There's a typo in this comment, in initUart2Pins():
 - //<u>PD5</u> is USART2 RX <u>PD6</u> is USART2 TX
 - The comment should be:
 - //PD6 is USART2_RX PD5 is USART2_TX

2 Section: Creating a polled UART driver (page 241)

- Bug in the code (Chapter 10.jdebug), page 241
 - o Each chapter's .jdebug file has the same bugs
 - o The bugs, and their solution, are described in the study-guide's web-page on Ozone.
- Bug in the code (mainUartPolled.c), page 241
 - o Problem: