

STM32h7hxi Embassy UART Issues

Refer code:

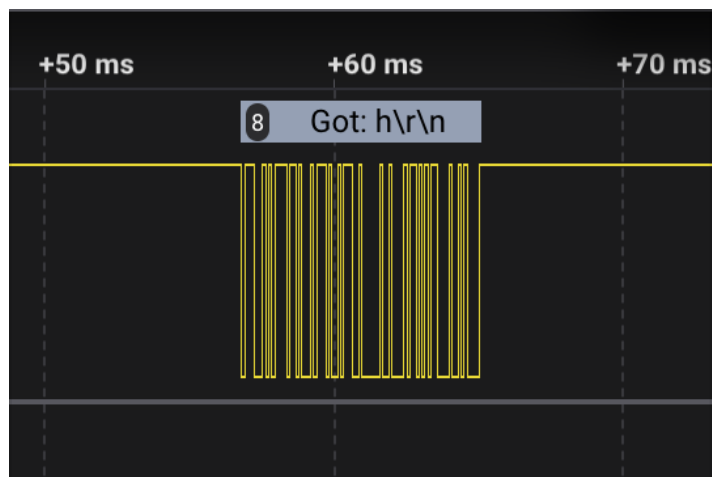
<https://gist.github.com/bsodmike/bb02e5903a08e8a6bed8e4700054250e>

Screen connected to Arduino UNO Wifi Rev2 at 9600baud

Bottom in green: text sent from the screen session, and in yellow response from the UNO saying "Got: h\r\n" etc. It repeats for every character.



Example response:



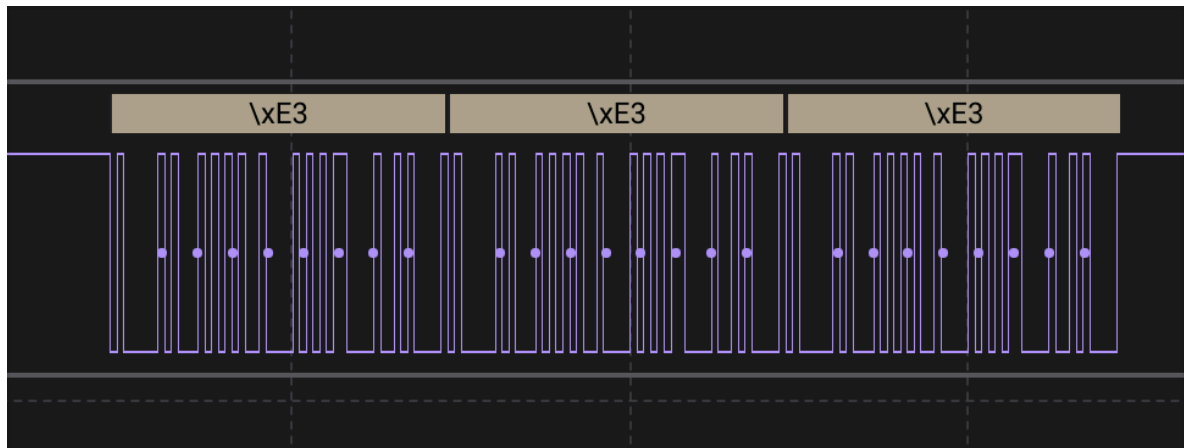
Issue detail:

stm32h747_slow

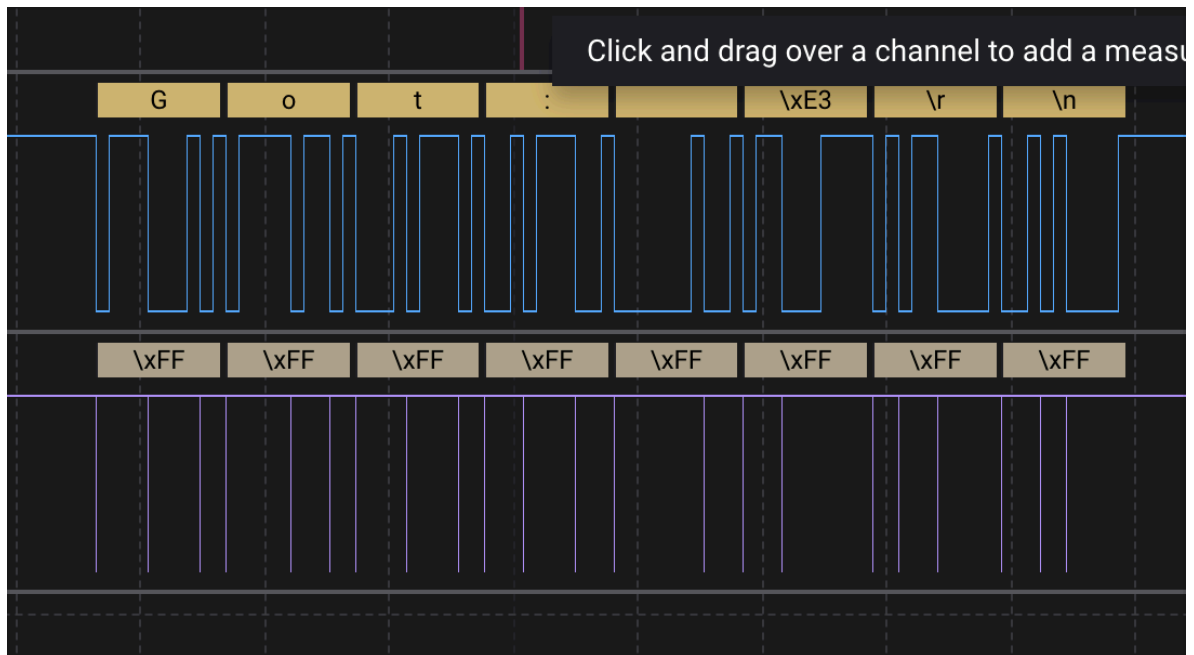
Connecting the STM32h7hxi (Arduino Portenta H7) with Embassy UART blocking write of text "ATB\r\n" appears as 3-bytes of 0xE3.

This is with the power stage config called "slow".

Ref: <https://github.com/bsodmike/stm32h747xi-embassy-uart-troubleshoot/blob/master/rtos/src/main.rs#L151-L169>



The UNO's response is seen below in blue



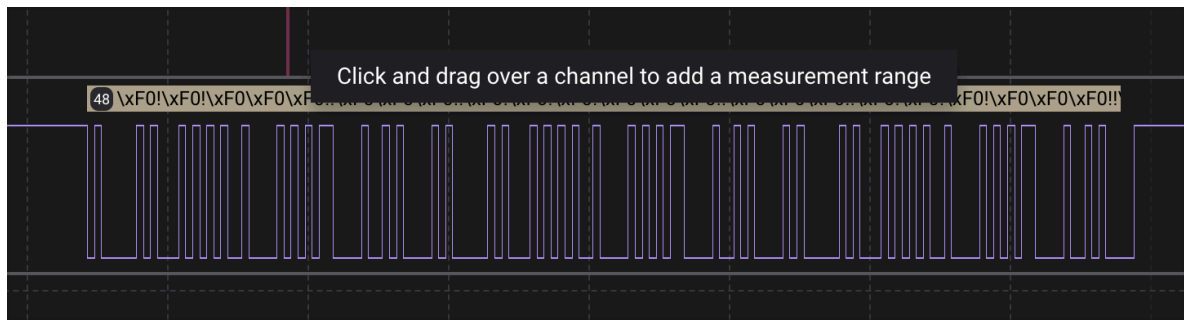
I'm also not sure why it's responding with 0xFF for every response byte from the UNO. This is strange.

stm32h747_480

Changing to power stage `stm32h747_480`

<https://github.com/bsodmike/stm32h747xi-embassy-uart-troubleshoot/blob/master/rtos/src/main.rs#L132-L150>

UART blocking write of text "ATB\r\n" now changes to



Notice the framing errors

