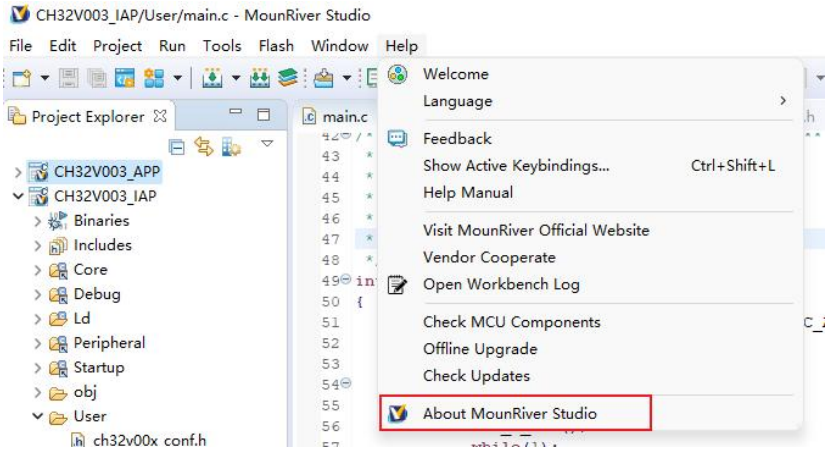
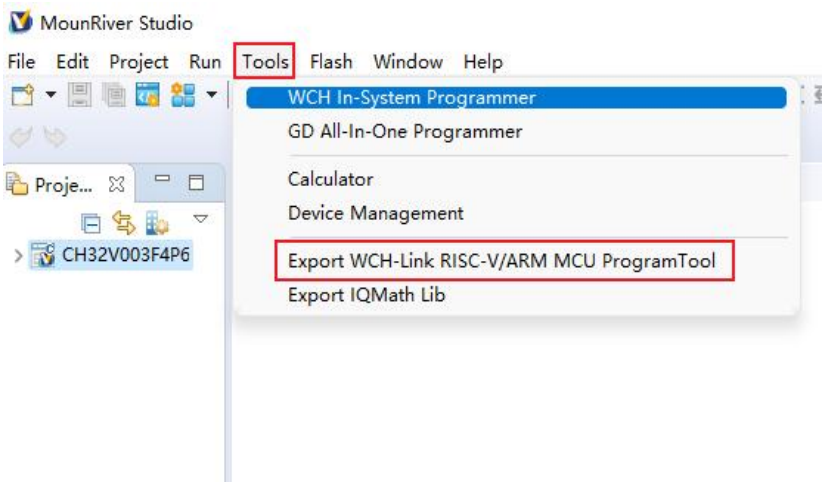
CH32V003_IAP Introduction

1. Only WCH_LinkUtility 1.6 or later versions can be used to read/write the 1920 bytes area which starts from 0x1FFFF000.
   1) This tool can be downloaded from the WCH website or Github openwch. WCH-LinkUtility: https://www.wch.cn/downloads/WCH-LinkUtility_ZIP.html
   2) Also MounRiver Studio v1.84 or later version can export WCH_LinkUtility 1.6 directly.

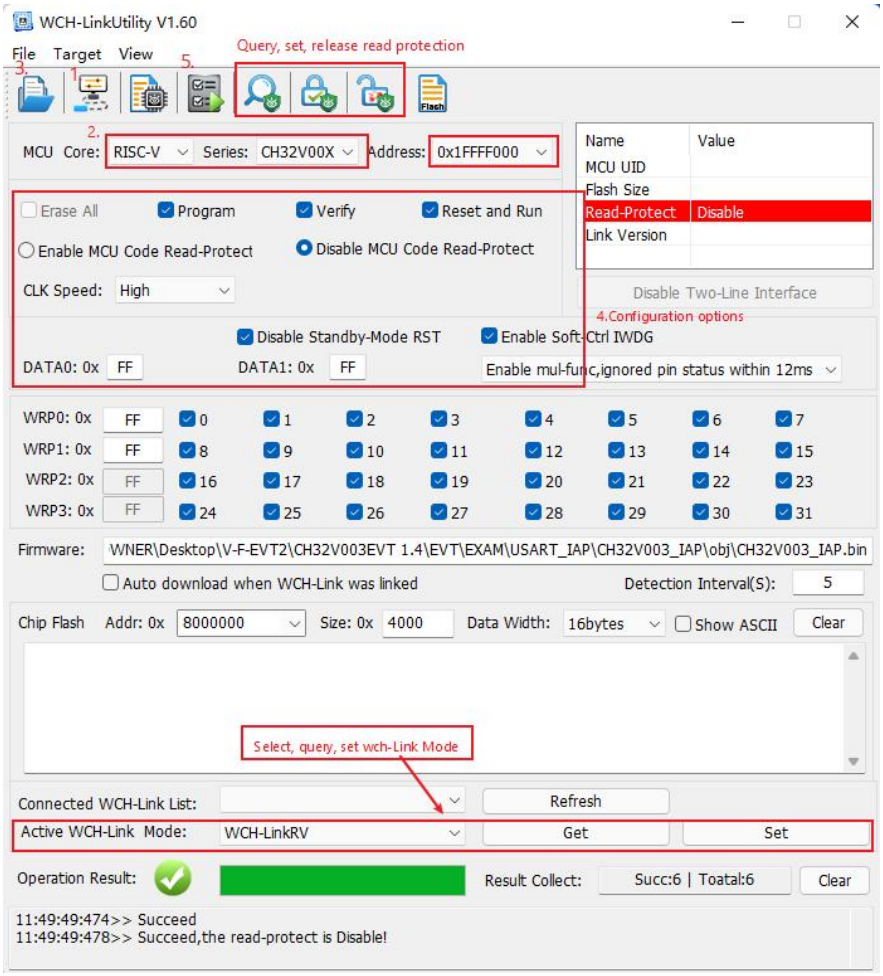


MounRiver Studio version can be checked here



Export the WCH_LinkUtility tool

2. Download the IAP program to the address 0x1FFFF000 through WCH LinkUtility.

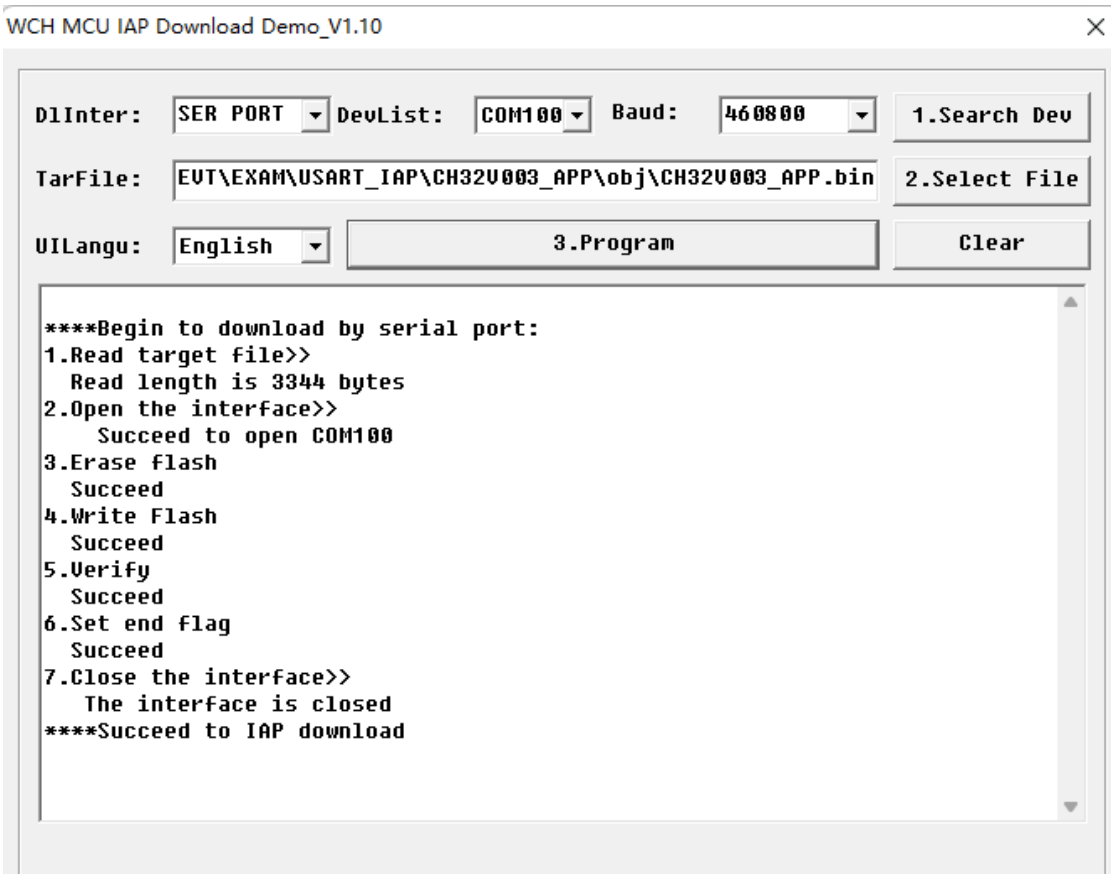


Note:

1) CH32V003EVT_ZIP: https://www.wch.cn/downloads/CH32V003EVT_ZIP.html

2) USART_IAP Routine: CH32V003EVT\EVT\EXAM\USART_IAP\CH32V003_IAP

3. After the IAP program is downloaded through 1-wire, The bin file could be downloaded to chip via serial(UART) port using WCHMculAP_WinAPP (PC0 should be floating during the downloading process), Serial(UART) port pin is PD5(TX) and PD6(RX).



WCHMculAP_WinAPP default serial port baud rate is 460800, Different baud rates can be set directly by writing the right registers in the IAP program.

Note:

1) WCHMculAP_WinAPP: CH32V003EVT\EVT\EXAM\USART_IAP

4. After the downloading, The PC0 pin should be tied low and repower the chip or reset the chip, then user program can be executed normally.