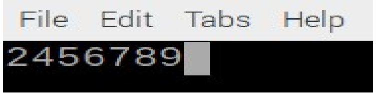
******************************Draft******************************

uart_advanced pi400-1

11/16/21

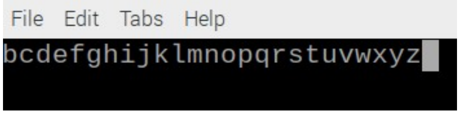
******************************Draft******************************

The characters typed on the pi400 minicom shell appear of



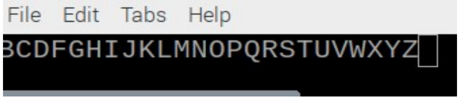
```
2456789
```

“12345678” was typed pi400 . keyboard



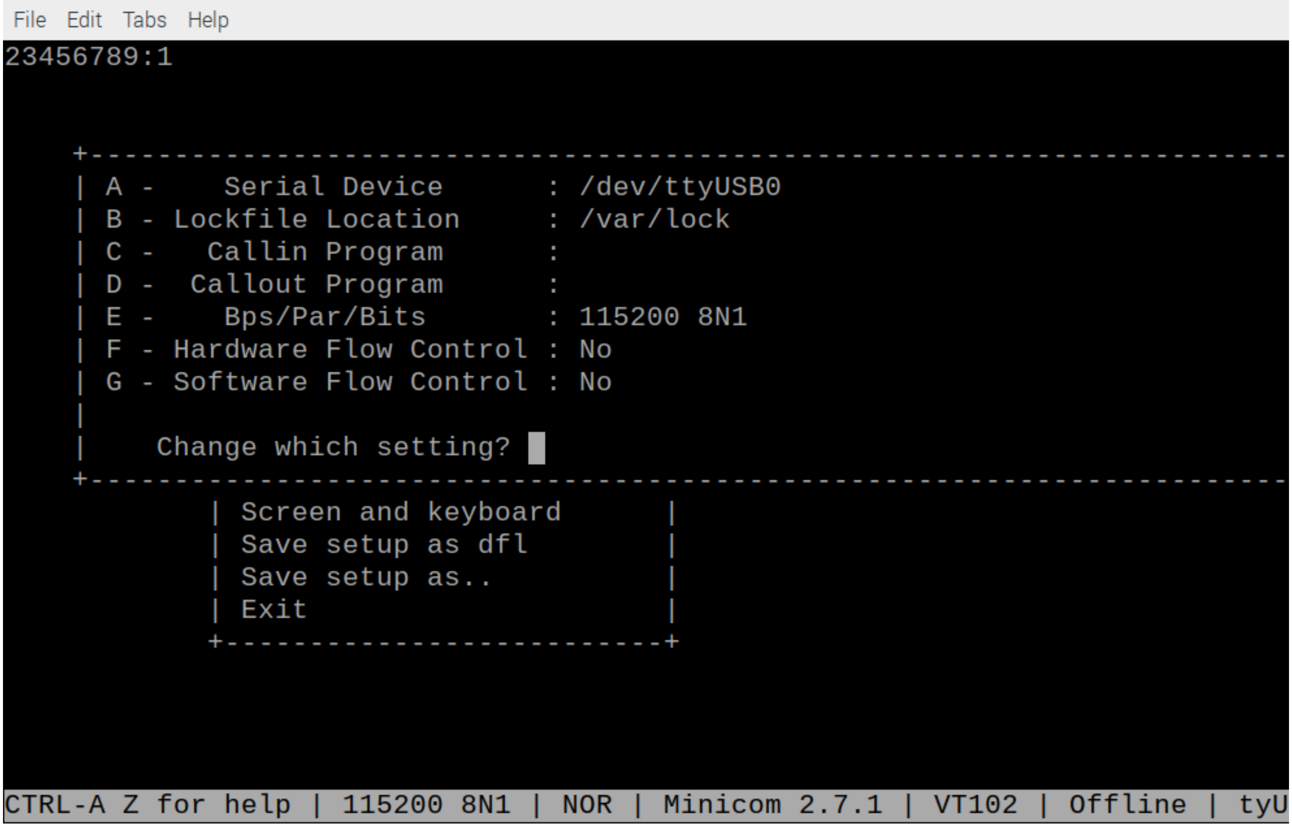
```
bcdefghijklmnopqrstuvwxyz
```

“abcdefghijklmnopqrstuvwxy” was typed pi400 keyboard.



```
BCDFGHIJKLMNOPQRSTUVWXYZ
```

“ABCDEFGHIJKLMNOPQRSTUVWXY” was typed pi400 keyboard.
The Raspberry Pi Pico was programmed with “uart_advanced.uf2”.



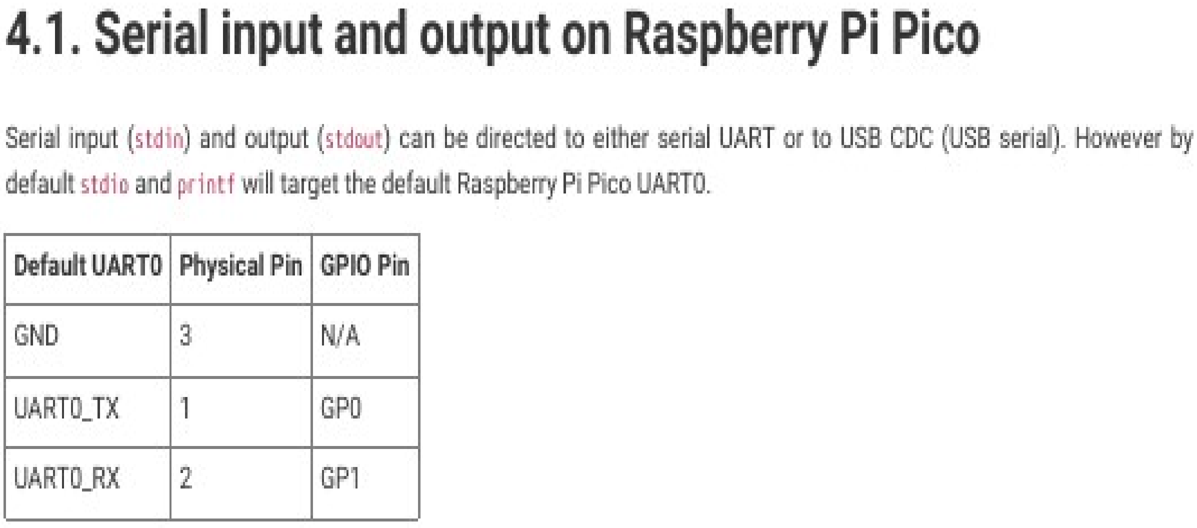
```
23456789:1


    +-----------------------------------------------------------------------
    | A -    Serial Device      : /dev/ttyUSB0
    | B - Lockfile Location     : /var/lock
    | C -   Callin Program      :
    | D -  Callout Program      :
    | E -    Bps/Par/Bits       : 115200 8N1
    | F - Hardware Flow Control : No
    | G - Software Flow Control : No
    |
    |    Change which setting?
    +-----------------------------------------------------------------------
            | Screen and keyboard      |
            | Save setup as dfl        |
            | Save setup as..          |
            | Exit                     |
            +--------------------------+




CTRL-A Z for help | 115200 8N1 | NOR | Minicom 2.7.1 | VT102 | Offline | tyU
```

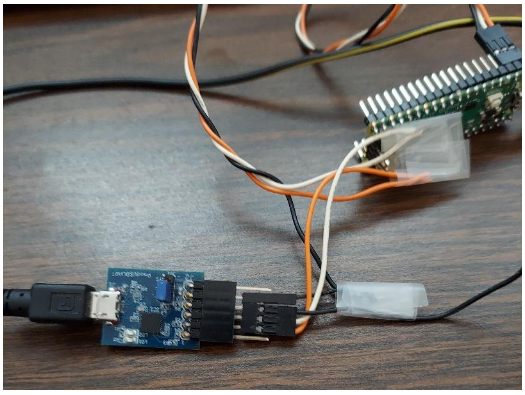
From the getting started



4.1. Serial input and output on Raspberry Pi Pico

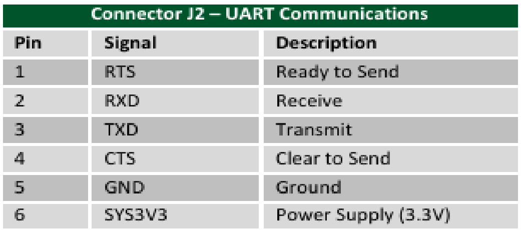
Serial input (stdin) and output (stdout) can be directed to either serial UART or to USB CDC (USB serial). However by default stdio and printf will target the default Raspberry Pi Pico UART0.

Default UART0	Physical Pin	GPIO Pin
GND	3	N/A
UART0_TX	1	GP0
UART0_RX	2	GP1



Uart Advanced
pico pin 1 orange GP0
pico pin 2 white GP1
pico pin 3 black GRD

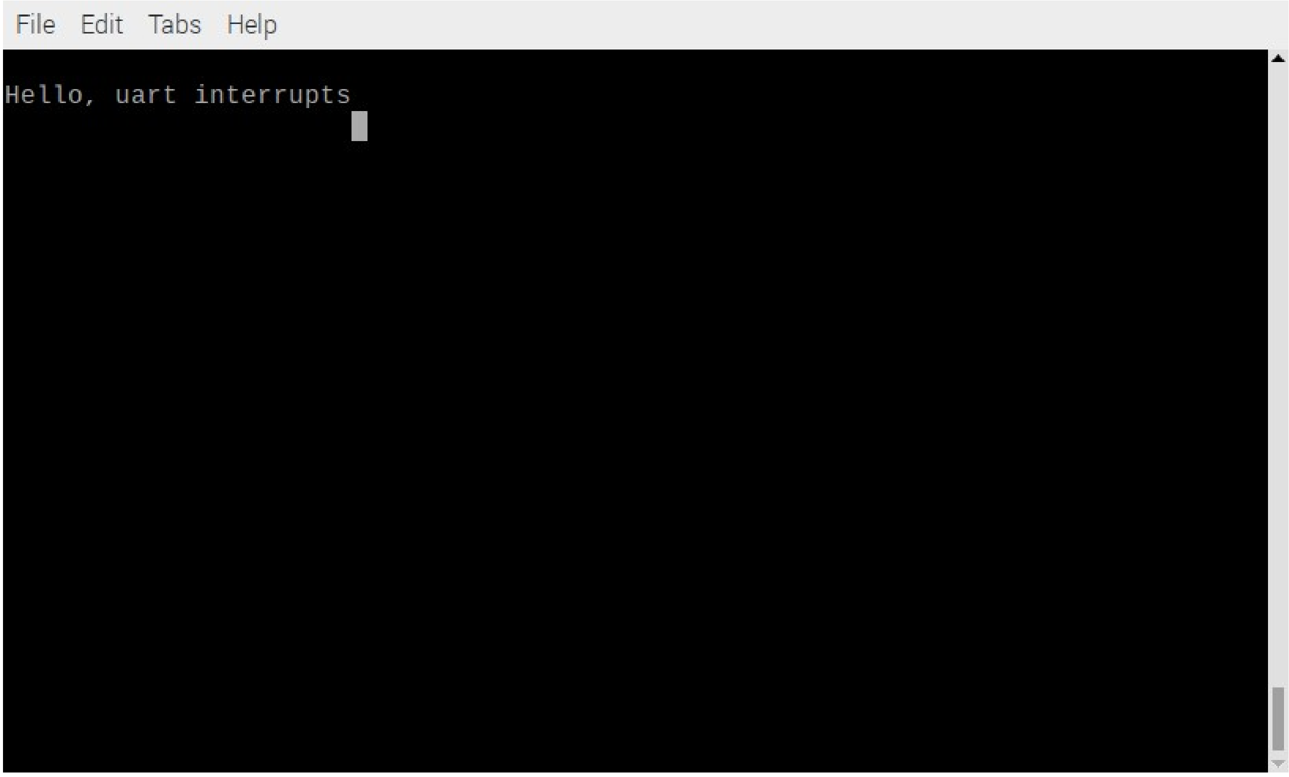
The orange wire 2 pin RXD of PmodUSBUART.
The white wire 3 pin TXD of PmodUSBUART.
The black wire 5 pin GRD of PmodUSBUART.



Connector J2 – UART Communications		
Pin	Signal	Description
1	RTS	Ready to Send
2	RXD	Receive
3	TXD	Transmit
4	CTS	Clear to Send
5	GND	Ground
6	SYS3V3	Power Supply (3.3V)

Table 1. Pinout description table.

When you connect the pico to USB of the RPi4.
Line 80 uart_puts(UART_ID, "\nHello, uart interrupts\n");



```
Hello, uart interrupts
```