

14,	14,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14,	14,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17,	14,	152	67	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17,	15,	67	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17,	16,	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240
17,	17,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240	248
17,	17,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240	248
20,	17,	152	67	225	0	0	0	0	0	0	0	0	0	0	0	0	0	240	248
20,	18,	67	225	0	0	0	0	0	0	0	0	0	0	0	0	0	240	248	248
20,	19,	225	0	0	0	0	0	0	0	0	0	0	0	0	240	248	248	168	1
20,	20,	0	0	0	0	0	0	0	0	0	0	0	0	240	248	248	168	173	2
20,	20,	0	0	0	0	0	0	0	0	0	0	0	0	240	248	248	168	173	2
23,	20,	152	67	225	0	0	0	0	0	0	0	0	0	240	248	248	168	173	2
23,	21,	67	225	0	0	0	0	0	0	0	0	0	240	248	248	168	173	22	8
23,	22,	225	0	0	0	0	0	0	0	0	0	240	248	248	168	173	22	87	2
23,	23,	0	0	0	0	0	0	0	0	0	240	248	248	168	173	22	87	229	2
23,	23,	0	0	0	0	0	0	0	0	0	240	248	248	168	173	22	87	229	2
26,	23,	153	67	225	0	0	0	0	0	0	240	248	248	168	173	22	87	229	2
26,	24,	67	225	0	0	0	0	0	0	240	248	248	168	173	22	87	229	206	1
26,	25,	225	0	0	0	0	0	0	240	248	248	168	173	22	87	229	206	143	1
26,	26,	0	0	0	0	0	0	240	248	248	168	173	22	87	229	206	143	184	2
26,	26,	0	0	0	0	0	0	240	248	248	168	173	22	87	229	206	143	184	2
26,	26,	0	0	0	0	0	0	240	248	248	168	173	22	87	229	206	143	184	2
29,	26,	176	67	225	0	0	0	240	248	248	168	173	22	87	229	206	143	184	2
29,	27,	67	225	0	0	0	240	248	248	168	173	22	87	229	206	143	184	25	2
29,	28,	225	0	0	0	240	248	248	168	173	22	87	229	206	143	184	25	215	1
29,	29,	0	0	0	240	248	248	168	173	22	87	229	206	143	184	25	215	164	1

Note the comments I added at the end of lines where I sent input.

To sum this up I see 2 strange behaviors:

- The Serial is initialized with 14 bytes of data to be read which seem to be constant. Why is that? I'd expect it to have no data until someone actively writes to it. Might it be my serial monitor sending data when opening the channel?
- Each time I send data I get 3 bytes which don't seem to correspond to the characters I've sent, and are not always consistent. From this example I got:
 - '0' -> 152, 67, 225
 - '1' -> 153, 67, 225
 - 'a' -> 176, 67, 225

Let's assume I should just ignore the last 2 constant numbers. Even then, the first number is not an ascii representation, or even an offset one. How am I supposed to receive data reliably?

dan 1994

sept. '20 #2

I noticed another (probably) important detail: The example output I showed above was captured through Visual Studio Code. I believe it uses the same serial monitor, but just to check I've tried to run it through the Arduino IDE and the output looked different.

Only 2 bytes were in the buffer (248, 248), and when writing, only 2 bytes were added at a time (e.g. '0' -> 152 225).

This is just baffling...

hznbg

sept. '20 #3

TX to TX and RX to RX

Normally, in serial connections, TX from one device goes to RX of another device

dan 1994

sept. '20 #4

Yes, but in this case, the UNO is in reset so it's just passing the signals through. I was able to compile a sketch that just prints and it works with TX to TX. This is also the case here, as can be seen from the output I'm receiving.

groundFungus Shannon

sept. '20 #5

I believe that the serial implementation in the tiny core is actually software serial and as such can not be expected to work, reliably, at more than 38400 baud.

dan1994

sept. '20 #6

Thank you for your advice. I switched to 9600 and now get correct ASCII values.

My test still shows more than one byte written at a time (3 for VSCode and 2 for the Arduino IDE), but the first byte is the correct ASCII value, and the rest are constant (13, 10 for VSCode; 10 for Arduino IDE).


Also, `readString()` works correctly, so maybe it's responsible for dealing with the extra values.

Also, when using `readString()` I see that the first string printed is "TestingOpen" in VSCode which might explain the "junk bytes" I see when the connection is opened.

groundFungus Shannon

sept. '20 #7

My test still shows more than one byte written at a time (3 for VSCode and 2 for the Arduino IDE), but the first byte is the correct ASCII value, and the rest are constant (13, 10 for VSCode; 10 for Arduino IDE).

The **ASCII code** for line feed is 10 (0x0a) and the code for carriage return is 13 (0x0d). That is what you are seeing. I do not know VS but if you want to prevent those from being sent by serial monitor, turn off line endings.  500x285

 no line ending.jpg 890x508

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