Re: Serial port monitor

Source: http://coding.derkeiler.com/Archive/General/comp.arch.embedded/2004−05/0426.html

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From: Bryan Hackney (*bh.remove_at_bhconsult.com*)
Date: 05/06/04

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Date: Thu, 06 May 2004 14:37:42 GMT
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Hemanth M S wrote:
> Hi!
>
> I am trying to capture RS−232 communication from my PC to a target
> board. The PC sends a command and the target board is supposed to send
> an acknowledgement. I would like to measure the delay between the
> transmission of the command and the reception of the acknowledgement.
>
> If you know of a 'reliable' RS−232 serial port monitor which can log
> data (both Tx and Rx) and provide a time−stamp for each byte (accuracy
> of milliseconds), please send me links/name of the software.
>
> Thanks,
> Santhosh.
>

I have done this before in the following way. It is easy if you are using Linux. It may be easy if you are not.

Make a dual−snooper cable. You need two ports on your working computer. Tee off TX−East to computer port 1 and TX−West to computer port 2.

Write a very simple serial reader. Set the ports up raw (see my post from a couple of day ago). Loop, doing a blocking read on each character on the serial port. Print this out with a timestamp. Run this on each port. Stream the outputs to files. Then paste the files and sort on the timestamp.

You could also do this in one program, but the blocking read way is better than having to poll for characters.