

Re: MSComm and USB to RS485 Converters (head hurting now, must have martini)

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Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2007-11/msg03195.html>

- *From:* Jamie <jamie_kallpa_not_valid_after_kallpa_@xxxxxxxxxxx>
 - *Date:* Tue, 20 Nov 2007 18:49:02 -0500
-

EdV wrote:

On Nov 19, 8:29 pm, Joerg <notthisjoerg...@xxxxxxxxxxxxxxxxxxxxxxxx>
wrote:

EdV wrote:

On Nov 16, 5:40 pm, Jamie
<jamie_kallpa_not_valid_after_kall...@xxxxxxxxxxx>
wrote:

EdV wrote:

I am having some weirdness
and was wondering if any of
the readers of
this group are experiencing
the something similar.
I was using a Quatech
QSU200/300 which worked
great but then upgraded
to their ESU series which do
not work with my in house
application.
My senior SW developer is
out for a spell. Here is what
is unique
about his application
although I do not understand
it in detail.
1. TheMSCommcontrol is
created in memory by his
application which

is
a .dll that we then use in
various test engineering
applications
2. As I look around in his
code I see he commented
out a "read from
device" section of code in
his .dll source for setting
baudrate,
inputmode, etc. Some
devices need to be "woke
up"? Sounds
interesting, hmmmmm.
3. Hyperteminal to
Hypterminal link ups work
4. Our applications are
"talking" to embedded uC
boards using LT1785
RS485 driver by Linear.
I am going to try and step
through his test example
with the .dll
loaded in the project today
to see what is going on but
first I have
to get it to run because there
are undeclared variables
scattered
through out.
Thanks in advance for
having a look at my
dilemma.
Ed V.
PS – mmmmmmmmm,
martini
PPS –
1. RS232 to RS485
converters work fine but I
am out of serial ports
due
my IT departments drive to
use PCs that have fewer
everthings.
2. BB–elec Ulinux USB
converters do this also
3. If you keep the gin in the
freezer and put pop a couple
olives in
your mouth you can skip
those tedious shaker to glass

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to mouth steps

Check the default baud rate settings in windows if theMScommisn't being instructed to set the baud rates. Also, Check the name being used..
My Self, I don't useMScommsince it's a MS thing and requires a license key to operate it.
I just go for the raw API levels.

Make sure the USB device gets mapped in as a comport and operating before the App starts.

"I'm never wrong, once i thought i was, but was mistaken"
Real Programmers Do things like
this.http://webpages.charter.net/jamie_5–Hide
quoted text –

– Show quoted text –

I found that data is going out but the repsonse from the embedded controller is "wrong". I think it is time to get a serial protocol analyzer or a serial port sniffer and see what is coming out to see if it is corrupeted somehow.

You could try Portmon. It's been a while since I used it but IIRC it had to be started before starting the COM routine. Since I've got a DSO with a long buffer I use that nowadays, at the point where it is RS232 again.

Regards, Joerg

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– Show quoted text –

Well I threw the kitchen sink at it and we found out that we need to wait for the USB driver to finish poking around before we read the input buffer after we send out a command. Ah the simple joys of looping until something is in the buffer. Why we don't use a routine that triggers on an MSComm event is still eating at me but I am tired of questions.

Thanks much,
Ed V.

You're just creating way to much work for your self.
Create a secondary thread do the waiting there.
Send notification messages via a user message to the main thread
that will read the incoming from a circular buffer.

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