
Subject: Re: About RS232

Posted by [Zbych](#) on Fri, 15 Mar 2013 15:04:15 GMT

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If you want I can help you with linux part of serial port implementation.

First you should tell me what interface you want.

My proposition:

1. `Vector<String> ListPorts();`
returns list of available ports. On windows you can use `QueryDosDeviceW` to get list of devices.
On linux `udev` does similar thing.

2. `bool Open(const char * port_name, enum speed, enum flow_control, enum parity)`

3. `void Close()`

4. `int Write(const void * data, int len, int timeout_ms = 5000);`

5. `int Write(String data, int timeout_ms = 5000);`

6. `String ReadUntil(int amount, int stop_byte = -1, int timeout_ms = 5000);`

7. `void FlushInput();`

to clean input queue

8. `void FlushOutput();`

to clean output queue

I would like to have timeouts in every `Write` and `Read` functions, because they often depend on the command you send to device.

Things like `stop_byte` are useful for communication with modems.

Maybe we should also have `Callbacks` (when new data arrive, when usb serial device is (un)plugged)?