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# RealTerm: Serial/TCP Terminal Files

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#### Realterm Versions:

Only some versions have been released on Sourceforge. Check at [www.i2cchip.com/realterm](http://www.i2cchip.com/realterm) for latest and other versions. Documentation is at <http://realterm.sourceforge.net/>

#### ChangeLog

##### 2.0.0.70

Port Scanning has been completely changed for WinNT and above.

WinNT+ :Ports are not scanned, they are loaded from registry to comport combobox in form "4 = \VCP0". Sorted by com number. No longer shows scanports form.

The "scanports" commandline parameter won't be needed now, as bluetooth ports don't cause delays

WinME- :Scanned by opening the same as before.

Please report any problems especially on old versions of Windows (pre XP eg Win98)

When a port of style \VCP doesn't exist, it no longer tries it as telnet port

##### 2.0.0.69

Fix to pass quoted strings on command line through to FIRST instance

No longer shows Spy driver donate dialog after driver installation.

Change various send string drop downs to use TerminalHex font to display all 8 bit values  
added printerport driver files to dlportio.dll install section

##### 2.0.0.68 - Interim release for Steve Mayall

Mask MSB added

Work begun on hexcsv formatting

##### 2.0.0.67

Make data triggers work in stand-alone mode to make testing easier. (previously only in ActiveX mode)

Improve I2C scan to use ":" to make more reliable scanning smbus devices with timeout

##### 2.0.0.66

Fix error box from registry key reads on some systems

Added HEXCSV commandline param to set the format string

Change timing of scanports form display - seems to have sped up scanning

##### 2.0.0.65

Virtual Comports (USB): Comport can be given using Key instead of the com number.

The key names are in the registry list of comm devices at HKLM\HARDWARE\DEVICEMAP\SERIALCOMM

eg an I2C2PC adaptor will be \VCP0, regardless of which port it is attached to

Display the port registry entries on the scanports dialog...

HEXCSV2DEC commandline utility added to Realterm installer

HexCSV formatted display mode begun, not working yet.

Add Channel to MAX127 I2C ADC control, fix rang&sign bits

Add RSS news link to About box

Add DataTriggerSet routine to setup trigger conditions from COM/ActX interface

Remove obsolete KCDX0 tab and code

Splitting I2C support routines into separate unit

add windowsplatform to aboutbox

add INSTALL parameter for installer to use to display help, news etc after installation

##### 2.0.0.64

Add COLOR commandline parameter to set terminal colors

Caption is now also used to set the title displayed on startbar when minimised

lengthen tooltip time, by request 2.5s -> 3.5s



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#### Q Serial Terminal

Basic serial (RS232) terminal  
program



#### ActiveModelSerializers

Serializer implementation and  
Rails hooks

Added I2C Scan Bus function to I2C tab.

Added I2C Control Register support

#### 2.0.0.63

Add a Sync Match Counter to "Binary Sync Chars".

-Also uses data trigger color in (yellow) TrayIcon for a few seconds

add version info to aboutbox

#### 2.0.0.62

Fix double counting of incoming chars. (disables routine associated with asc7511)

Fix SPY mode not displaying char(0)

Added BitBashPins box to I2CMisc tab for open drain bashing of all port pins.

Added new ActiveX props: CaptureAsHex

As activeX lib has changed may need to unregister and re-register

Tried translate again - still errors.

#### 2.0.0.61

Commandline parser changed (but not heavily tested)

- quotes in parameters are now OK

- accepts leading - or / before parameters

SendStr and SendNum can be called repeatedly to push the strings into the

SendString combo-boxes so they can be pre-populated

#### 2.0.0.60

Improve Bicolor led display test routine.

When port is closed by button, Terminal is enabled so scrollbar continues to work

Added Checksum8 and Checksum16 to Send CRC options

Help commandline option now runs help

#### 2.0.0.59

Fixed Matlab format TimeStamp values.

#### 2.0.0.58

Added SCROLLBACK commandline parameter

Fixed Scanport operation when port is specified, for quick reliable startup.

- if PORT is set on command line, don't scan for ports, unless scanports also set on command line

#### 2.0.0.57

Add new links to about box: Help forum, ChangeLog, Examples

Added a button to bring up the popup menu to make it easier to find.

#### 2.0.0.56

Seem to have fixed "no receive chars in terminal" problem" when start up port does not exist.

#### 2.0.0.55

Now uses FirstAvailablePort (not com1) to open. This is for laptops without COM1

Consequence is that I now do search com1-4 for 1st port if scanports=0

Hopefully will help with the terminal doesn't work problem.

Temporarily added Enable Terminal button to MISC tab for debugging (didn't help)

#### 2.0.0.54

Restore binary sync with AND and XOR fields

Move HexEmulator code into separate module

Add Leading Sync option, but only works for 1 char sync ....

#### 2.0.0.53

Add Readme and Changelog to Realterm shortcuts

fixed starting minimised in 2.0.0.52

Improve Scanports dialog slightly. Now brings up a message box to confirm abort scanning if too slow.

#### 2.0.0.52

Fix for crash when using FIRST commandline parameter to send to running instance

stop form flashing up when using FIRST commandline parameter to send to running instance

Many more examples (installer script fixed)

2.0.0.51  
Try to fix EBAUD/EFLOW not correctly activated after being set from command line

2.0.0.50  
Add EFLOW commandline option  
Add Test button for M5451 LED display modules  
Add color checkbox for M5451 LED display modules

2.0.0.49  
Add Send^C and Send Break items to rightclick menu  
Fix to cope with SCANPORTS=0 on commandline  
\*\*Very ODD\*\* ctrl+C has started working from the keyboard in the terminal. Also BREAK key sends ^C now  
May remove the ^C menu item in future if this is generally true.

2.0.0.48  
Add PCA9545 control to I2C-2 tab to support new MUX3 pcb

2.0.0.47  
Add CRC8 algorithms (smbus & dallas 1 wire) to send tab  
Added Telnet/Raw radio buttons for Echo port. (Changed code on main port also)  
Working on WaitForDataTrigger  
BlueSmirf on misc tab:  
- Fix baud rate setting command  
- add query baud button  
Clear LineError light after 1 sec. Leaves state on hint until double click on "Error" label  
BaudRate setting:  
-Added hidden BaudMultiplier drop down to help with high baud rates on 950 uarts  
-trap error message during (invalid) baud rate setting to give more informative message (tested on WinXP)  
Update BL301 controls on I2C-2 tab for current commands  
Merge sboyd changes to AWASCII module. Should have no effect on Realterm.

2.0.0.46  
Timestamping in capture file working (user feedback needed about preferred YMD format)  
Capture-as hex working  
statusbar toggles to show longhints  
disable Freeze button (until it is fixed)  
spinning icon extended to yellow corner for data-triggers  
added Events tab, which is hidden except when started as activeX server

2.0.0.45 \*\*\*Last version before activeX type library is extended \*\*\*  
Add Terminal Columns spinedit on display tab  
Add warning if try to capture when port is closed  
ActiveX Callback events  
-OnCaptureCount (called once only when thresh crossed. Only comes from direct Capture)  
-OnCaptureStop (both will be called if there is a count threshold)  
-OnTimer: This is a dedicated timer for generating periodic callbacks.  
- Control on Misc tab to manually send events to help client code testing. Not gated by Enables, so always sent  
- update Matlab example to show events  
First version compiled on new PC, For proven version use 2.0.0.43  
Donate button  
add cancel button to form close dialog when in spy mode  
Installer changes  
-rename dlportio installer to install\_dlportio.exe  
-Installer for SpyMode drivers available to project donors.

2.0.0.43 \*\*This is a well tested and stable version\*\*  
Change Capture to try and fix reported Div0 errors

Add Max127 I2C read

2.0.0.42  
commandline option "echo" with no further data crashes (was expecting "echo=<port>")  
now will accept nothing OK  
Change to combobox history list routine that is widely used. Should have no side-effects.

2.0.0.41  
Fixes for multi-copy COM automation:  
Creates multiple instances instead of one single instance again (like 1.99.XX)  
Automation opens it with ports closed again (like 1.99.XX)  
Caption now "Realterm: Automation server" for automation instances  
Suppresses port scanning when started as ActiveX/COM server

2.0.0.40  
Added LF button to send tab

2.0.0.39  
Fixed Font selector to change size and style correctly

2.0.0.38  
fix to M5451 conversions so that "-1.23" doesn't light segment in digit 5

2.0.0.37  
Added Float4 single-precision floating point display

2.0.0.36  
Added Binary and Nibble display modes. One of these will be dropped in future version, probably "binary"

2.0.0.35  
Swapped trace and log control positions to put emphasis on log files.

2.0.0.34  
Added some BlueSmirf bluetooth module commands to misc tab  
Changed scanports commandline option to specify last port number to scan for.  
This makes it easier to limit the time taken when bluetooth is present without just disabling it  
Add ScanPort dialog when it is taking too long.  
Change port scanning to scan upward to allow aborting

2.0.0.33  
Indirect capture opens files for shared-reading during capture  
(ie capture while displaying chars in terminal)  
Modified AdTrmEmu.pas for this  
F1 key now brings up help.  
Update aboutbox

2.0.0.32  
cleaned up activeX TLB to remove warnings  
Added Version property to activeX

2.0.0.31  
Added controls to set Trace and log file names  
Added clear and dump buttons for trace/log  
Now capture,send correctly append to combobox  
tabsheet send correctly selected during send  
Only show Binary sync in hex modes where it is active  
Added active X method "AddCannedSendString" that pushes strings into the sendstring combo boxes

2.0.0.30  
Added DTR&RTS activeX fields

Fixed Read Dallas1 wire ID  
Added PCA9544 I2C device  
removed translate component due to ntdll errors  
Added CAPDIRECT commandline and activeX  
hints copied into status panel

#### 2.0.0.27

added scrollbar rows field  
fixed commandline LFNL  
hack to remove "buffer empty" error during capture. Breaks BL301 and ASC7511 reading  
Added 1-wire temp read button for DS1820 (untested)  
I2C link now sets RTS/CTS  
Warning in status panel about no handshaking  
panels swapped about  
attempt to use long hints in panel (not working yet)

#### 2.0.0.26

Added CTS,DSR,DCD,Break lights to Echoport tab to enhance monitor mode.  
Correctly enable status lights on echo port  
fixed monitor assert failure in echo monitor mode

#### 2.0.0.24

stretched Pin Description memo to fit properly

#### 2.0.0.23

Added buttons for SPI CS pin control  
added and removed mod for comserv startup problem on winxp  
spymode bleat screen

#### 2.0.0.21

Added Andigilog aSC7511 I2C support

#### 2.0.0.20

Now scrollbars will appear when realterm is resized so terminal window is smaller than number of lines  
made ascii edit into combo-box, and added regular expansion  
BL301 I2C support

new I2CADD command line parameter to set I2C address

#### 2.0.0.19

Added I2C buttons to "write then read" to make it easier to read eeproms etc.  
Fixed "invert data" and char counting in ASCII emulator  
Char count now only counts chars from the port, and ignores chars being sent in Half duplex  
EOL char for Sendfile EOL delay is now LF not CR

#### 2.0.0.18

Add humidity sensor support to I2C Misc tab  
Added I2CMisc tab for non-i2c chips  
Moved Sendfile to Capture tab to free up space on send tab  
commandline setting of emulator doesn't work

#### 2.0.0.17

New installer based on NSI. Now installs fonts  
Colorise spy mode  
proper error messages when opening port  
no rx when port already open while opening a second instance  
clear terminal when changing port (w/ checkbox)  
paste to port/copy from port have some issues  
scrollback  
grayed unused port options  
F1 help launches web browser

fixed bug that meant no display of control chars after switching back. (Emulator\_ASCII is unused now)  
spy mode check that port is closed before trying to enter spy mode. Or warn  
changed spy mode to use teta. Works properly now  
fixed: first locks error (still flashes but works.  
fixed: capquit error  
active scripting examples  
enumerating all comports can be disabled, and run (actx control?)  
recieving repeated FF or FF's lost on TCP (cmdline and actx?)  
CAPTION doesn't work from command line...  
fix repeated file send and send messages  
sendfile delay control can go negative  
sendfile delay locks w/ big numbers  
sendfile repeats work properly  
exception when exiting via COM or commandline interface  
FLOW=3 RS485 mode can be set from command line now

## Bugs

Scrollbar command line option does not work. (seem to at 2.0.0  
help commandline option errors when port scan is slow.

### Binary sync mode

- doesn't seem to update correctly until after mode changed back to ascii then back to hex
- perhaps should be active in ascii, but not ansi
- and masking doesn't seem to work right. Check. Correct or improve explanation

Freeze button no longer working. (works in 1.99.16). Code unchanged. (bug in APRO)

Reported RS485 problems. Not checked, but is a known windows bug due to slow RTS timing (see apro forums)

## Not really faults

showallemulator shows BS as triangle (no: ^H doesn't send BS)

## ToDo .... maybe

### Spy mode Capture file

#### Installer improvements:

- run it if user chooses to install
- or improve installer wording so user knows to install separately
- add all modified components

ability to launch from com interface then detach and leave running.

extend special font with larger sizes

update to latest async port components, and merge my changes back to SF.

RFC2217 remote port control function

modbus packets, ascii? bin?

### CRC's

- more generally add a range of checksum/crc's: CK8,CK16,ModbusAscii,ModbusCRC,CRC16,CRC32

translations

command file  
general printer port toggle controls  
explicit printer port address  
Tidy up dlportio -add routines, merge d3 and d4 versions  
redundant color setting methods  
clean up SendString mess  
hex getting for I2C  
getString or getline for activeX interface  
autosize for winxp, autosizing screen at start - doesn't seem to be needed now  
crc packet sync

translation support  
autobaudrate detection scheme  
linedelay and chardelay are longer than supposed to be, especially for short delays  
Kylix version.

use canned strings. (implemented from Actx, but not commandline)  
easy way to add i2c chip addresses. (done - AddCannedStrings)  
Add CRLF key       eg shift+return  
SENDONLY commandline does not set SENDREPS=0 like documentation.  
    As it has been commented out for reasons forgotten, I am a bit loathe to restore it.

-----  
Feature Requests  
-----

Spy mode capture file  
Resize changes rows/cols  
It would very useful to add command line options for font and font size choose on program start.

It would be nice if the sync chars would allow random length "Data Frames" when set to "Single", without the data frame size speifically set. I.E. header byte set to  
AND \$80 (MSB set) and variable length messages to follow.

Delay on repeats of the Send comboboxes  
Key for Break and for ^C  
handle - and -- in commandline arguments ie -scanports=2  
fix scanports to abort properly or to run in background, and to display dialog after mainform is visible.  
Send multiple files from command line  
Delays for other send options and normal terminal

A "sync feature" that will allow closing and re-opening the capture files with an incremented name.  
The plot files from the scope are HPGL and have a known ending sequence. So it  
would be nice to start the capture, and wait for the stream to come from the  
, including its termination set, then close the current capture file, and start  
a new one automatically. Later I can go in and print out the capture files directly.  
This would make Realterm a standalone, rather than embedding it in a second pgm.



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