FieldTalk™ modpoll

Read Me Notes

Revision 2.9, 2010-01-29

This *Read Me* file contains last-minute product information for the *FieldTalk*™ modpoll utility.

Files part of the package

`README`, `README.pdf`
: These Read Me notes.

`LICENSE-FREE`, `LICENSE-FREE.pdf`
: License containing the Terms & Conditions of use for this free software.

`linux/modpoll`
: Linux x86 binary

`qnx6/modpoll`
: QNX 6 x86 binary

`solaris/sparc/modpoll`
: Solaris SPARC binary (version 2.4 only)

`win32/modpoll.exe`
: Windows command line binary

`src/modpoll.cpp`
: Source for illustration purposes. Requires *FieldTalk* Modbus Master C++ Library to compile.

Usage

```
Usage: modpoll [options] serialport|host
Arguments:
serialport    Serial port when using Modbus ASCII or Modbus RTU protocol
              COM1, COM2 ...                on Windows
              /dev/ttyS0, /dev/ttyS1 ...    on Linux
```

```
              /dev/ser1, /dev/ser2 ...      on QNX
host          Host name or dotted ip address when using MODBUS/TCP protocol
General options:
-m ascii      Modbus ASCII protocol
-m rtu        Modbus RTU protocol (default)
-m tcp        MODBUS/TCP protocol
-m enc        Encapsulated Modbus RTU over TCP
-a #          Slave address (1-255, 1 is default)
-r #          Start reference (1-65536, 100 is default)
-c #          Number of values to poll (1-100, 1 is default)
-t 0          Discrete output (coil) data type
-t 1          Discrete input data type
-t 3          16-bit input register data type
-t 3:hex      16-bit input register data type with hex display
-t 3:int      32-bit integer data type in input register table
-t 3:mod      32-bit module 10000 data type in input register table
-t 3:float    32-bit float data type in input register table
-t 4          16-bit output (holding) register data type (default)
-t 4:hex      16-bit output (holding) register data type with hex display
-t 4:int      32-bit integer data type in output (holding) register table
-t 4:mod      32-bit module 10000 type in output (holding) register table
-t 4:float    32-bit float data type in output (holding) register table
-i            Slave operates on big-endian 32-bit integers
-f            Slave operates on big-endian 32-bit floats
-1            Poll only once, otherwise poll every second
-e            Use Daniel/Enron single register 32-bit mode
-0            First reference is 0 (PDU addressing) instead 1
Options for MODBUS/TCP:
-p #          TCP port number (502 is default)
Options for Modbus ASCII and Modbus RTU:
-b #          Baudrate (e.g. 9600, 19200, ...) (19200 is default)
-d #          Databits (7 or 8 for ASCII protocol, 8 for RTU)
-s #          Stopbits (1 or 2, 1 is default)
-p none       No parity
-p even       Even parity (default)
-p odd        Odd parity
-4 #          RS-485 mode, RTS on while transmitting and another # ms after
-o #          Time-out in seconds (0.01 - 10.0, 1.0 s is default)
```

Release history

Version 2.9 (2010-01-29)

- Fixed lock-up issue on some Linux platforms which was introduced in 2.7.

Version 2.8 (2009-11-16)

- Default baudrate is now 19200 as per Modbus standard.

Version 2.7 (2009-06-04)

- Corrected help and range check for -a parameter

Version 2.6 (2008-10-30)

- Added option -0 for PDU addressing and option -e for Enron/Daniel 32-bit mode.

Version 2.5 (2008-04-03)

- A return code of 1 is returned if operation was not successful otherwise 0
- -c parameter now accepts a value of 100.
- Added time-out command line parameter.
- Retry count is now 0 for serial protocols (was 2 before).

Version 2.4.0 (2006-10-20)

- Default parity changed to even as per Modbus standard.

Revision 1.17 (2005-06-07)

- Using the -i command line parameters returned an error message in ealier releases.

Version 2.2.1 / Revision 1.16 (2004-09-22)

- Using the -d and -s command line parameters returned an error message in earlier releases.

Version 2.2 / Revision 1.15 (2004-04-25)

- RTU over TCP protocol added, which is also known as encapsulated RTU.
- Recompiled against 2.2 release of libmbusmaster.

Version 2003-05-20

- Recompiled against 2.0 release of libmbusmaster.
- RTU/ASCII: Added RS-485 mode for Win32, QNX and Linux platforms.
- ASCII: Fixed casting bug which caused protocol error when transmitting FF.
- MODBUS/TCP: Time-out applies now also when connecting to a server, tolerate a zero address field in an exception reply, fixed auto-retry.

Version 1.2 (2002-11-19)

- Terminates in case of a closed TCP/IP connection.
- Some error messages changed.
- Changed command line options for holding and input registers. -t4 is now holding register, -t3 input register.

- Retry option is now working.
- --version paremeter introduced.
- Retries fixed.
- -p parameter for MODBUS/TCP introduced.
- Default parity changed to NONE.
- Based on *FieldTalk* v1.3.

Version 1.1 (2002-07-15)

- Reference index print-out for 32-bit values corrected.
- Based on updated *FieldTalk* library which fixed issue with time-out monitoring

Version 1.0 (2002-03-03)

- First release

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