# controlino\_testing.py Python Application

The controllino\_testing.py application offers the ability of collecting Modbus variables from a Controllino or a Leaf-Linux system (BananaPi, EspressoBin, Modberry).

The Controllino Modbus RTU RS485 network runs at 19200 baud with parameters 8N1 (8 bits, no parity, 1 stop bit).

## controllino\_testing.conf

The variables to be collected are described in the file controllino\_testing.conf

Graphical user interface, text

Description automatically generated

For the example “dl10TempC, 5, 1, hr” the fields of this file are described as:

|  |  |  |  |
| --- | --- | --- | --- |
| Modbus Variable Name | Modbus Unit ID | Modbus Variable Address | Modbus Register Type |
| dl10TempC | 5 | 1 | hr – holding register |

Possible Register Types

co – coil

di – digital inputs

hr – holding registers

ir – input registers

## Calling the controllino\_testing.py from a Windows command line

Use the following syntax to call the application:

Usage: <ServerIPaddress> <ServerPort> <PoolingInterval[milliseconds]>

For instance:

python controllino\_testing.py 192.168.2.3 502 1000

Text

Description automatically generated

Pressing Ctrl-C terminates the application.

The Application can also be called to gather data from a Leaf-Linux system just by changing the IP address and IP port:

python controllino\_testing.py 192.168.2.2 1502 1000

## Log files

Every session creates a log file in the Logs directory. The Log file name contains the date-time the session was started.

A screenshot of a computer

Description automatically generated with medium confidence

The Log file is a .csv file:

Text

Description automatically generated

That can be processed by Excel.

A screenshot of a computer

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