Lavida Fixture Tool v0.4

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10:06

Environment: Python-2.7.3
3rd party library: Gtk-2.24.2, pyserial-2.6, ply-3.4, python-msp430-tool, libMSP430-3.2.5.4, cairo, chardet-2.1.1, pexpect-2.3
Development Tools: Eclipse(PyDev)/Glade-3.8.1
Supported OS: Raspberry Pi - Debian/ Win7 (Only tested OS was list here)
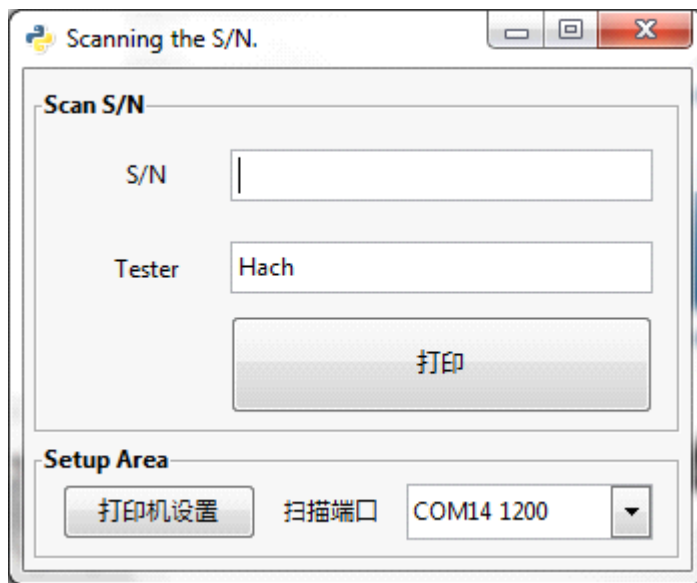
Function list:
1. Support standard input/output over UART protocol on selected port.
2. Support script interpretation and execution.
   a. With *.cali script, the program will execute the command line by line.
   b. With *.bas script, the program has realized a BASIC parser using Lex&Yacc algorithm. (Check template.bas for detail)
3. Support automatically and manually result checking function.
4. Support drawing certification document via printer (local printer, network printer or PDF file, depends on OS driver).
5. Support certification document backup with a *.PDF file and test data log with a *.LOG file.
6. Support MSP430 flashing operation via Ti's FET430UIF (JTAG).
7. Support multiple threading function to make sure the GUI is responsiveness all the time.
   a. Thread GTK is used for GUI maintains.
   b. Thread Receiving is used for receiving text from assigned UART port.
   c. Thread Plying is used for script interpretation.
   d. Thread Batching is used for script/command execution.

GUI demonstration:
1. Main window

2. Bar code scan window

3. MSP430 download window