```
LD        TRUE
ANDN      BOOL1
JMPC      label
LDN       BOOL2
ST        ERG

label:

LD        BOOL2
ST        ERG
```

Instruction List (IL)

Sequential Function Chart (SFC)

Function Block Diagram (FBD)

Ladder Diagram (LD)

Structured Text (ST)

PLCopen®
motion control

Diagos

Softplc and Motion Control for Smitec systems

Application developer suite using programming language IEC 61131-3 and Motion Control PLCOpen compliant for Smitec automation systems. Flexibility, performance and acquired know-how will allow for developing and managing applications most effectively

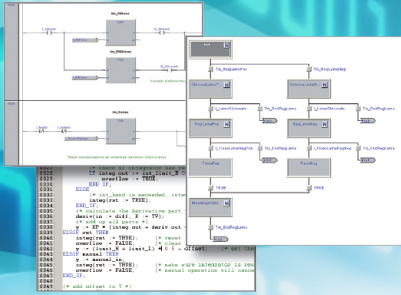X86 & ARM   Linux   Realtime   Knowhow
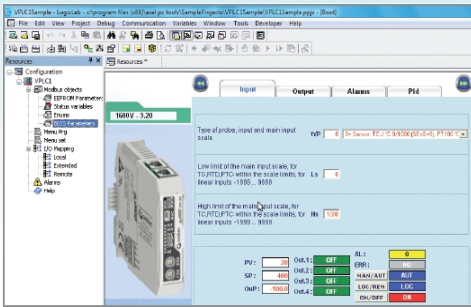
smitec

Funcionalities

IEC 61131-3

- Instruction List (IL)
- Structured Text (ST)
- Ladder Diagram (LD)
- Function Block Diagram (FBD)
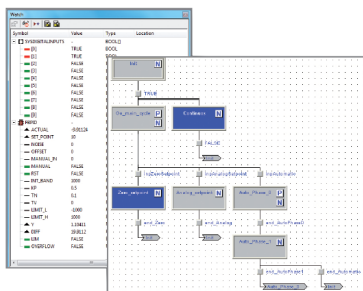- Sequential Function Chart (SFC)

MOTION CONTROL

- PLCOpen Level 1 – Single-Axis
- PLCOpen Level 4 – Multi-Axis
- Kinematics of the most common Robots
- Continuous mode and Buffered mode supported
- Virtual axes supported
- Most common Homing procedures supported
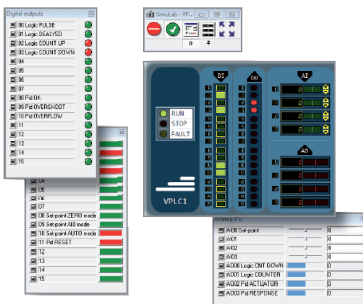- Graphical configuration of axis and drive

PROJECT

- Graphic system design
- Employment of predefined devices (I/O and Drives)
- Availability of functional and motion libraries
- Integrable PLC Open libraries
- Use of acquired know-how

DEBUG

- Animation of LD and SFC diagrams
- Real-time monitoring of system variables
- Oscilloscope
- Breakpoint and Trigger
- HotSwap (code replacement without power off)

SIMULATION

- Simulation on PC of the system
- Graphic rendering of I/O status
- Variables and input status setting
- Application debug without system connected
- Application debug