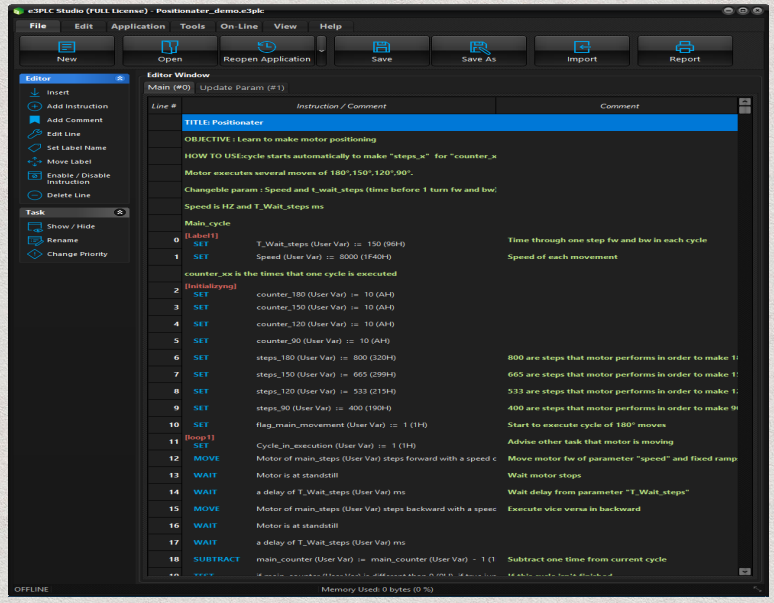
ever
ELETTRONICA
the clever drive

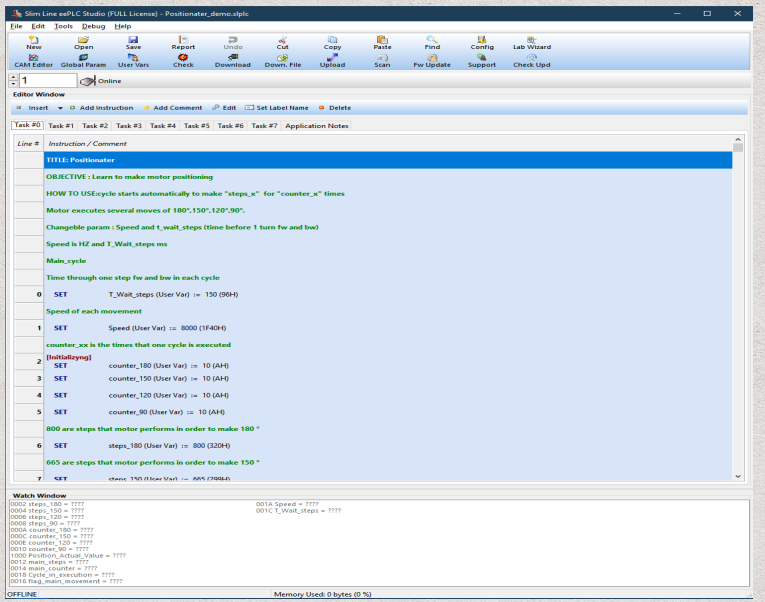
News compared to eePLC

- Renewed graphics
- Support with high resolution screens (Windows 10 HighDPI)
- Light, dark and classic themes

e3PLC for Titanio

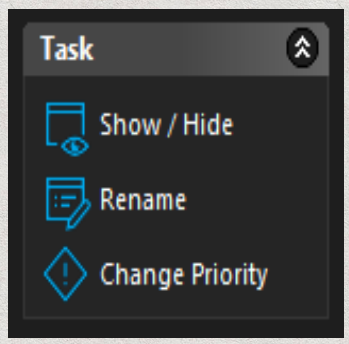


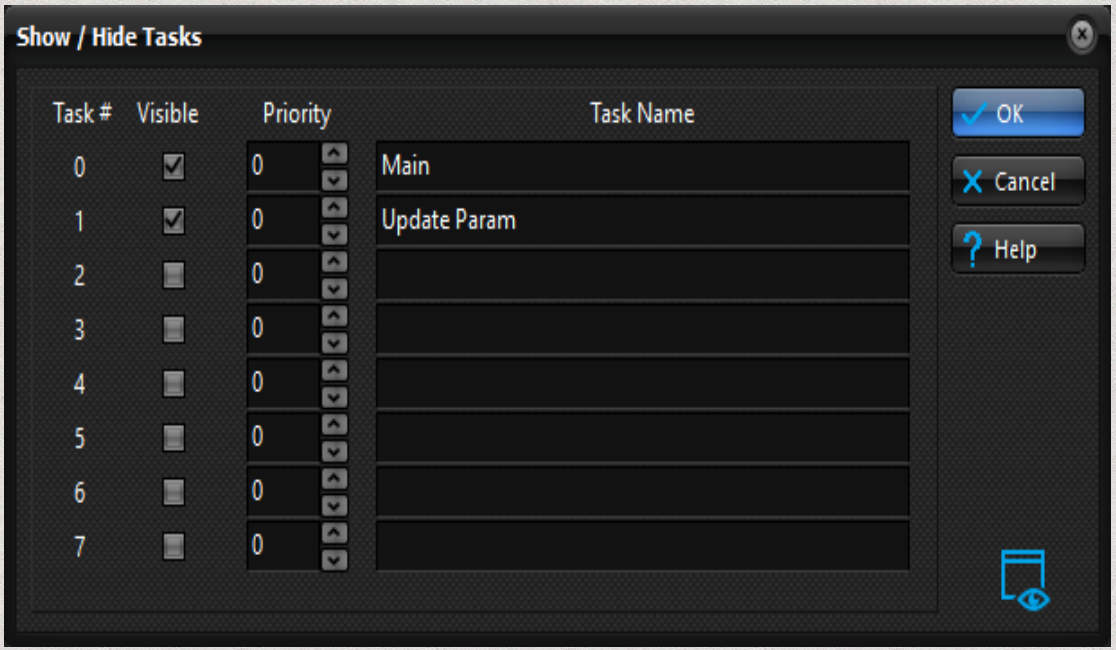
eePLC for SlimLine



News compared to eePLC

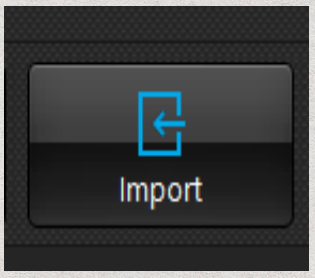
- **New tasks management**
- Possibility to hide empty tasks
- Task panel in the main window





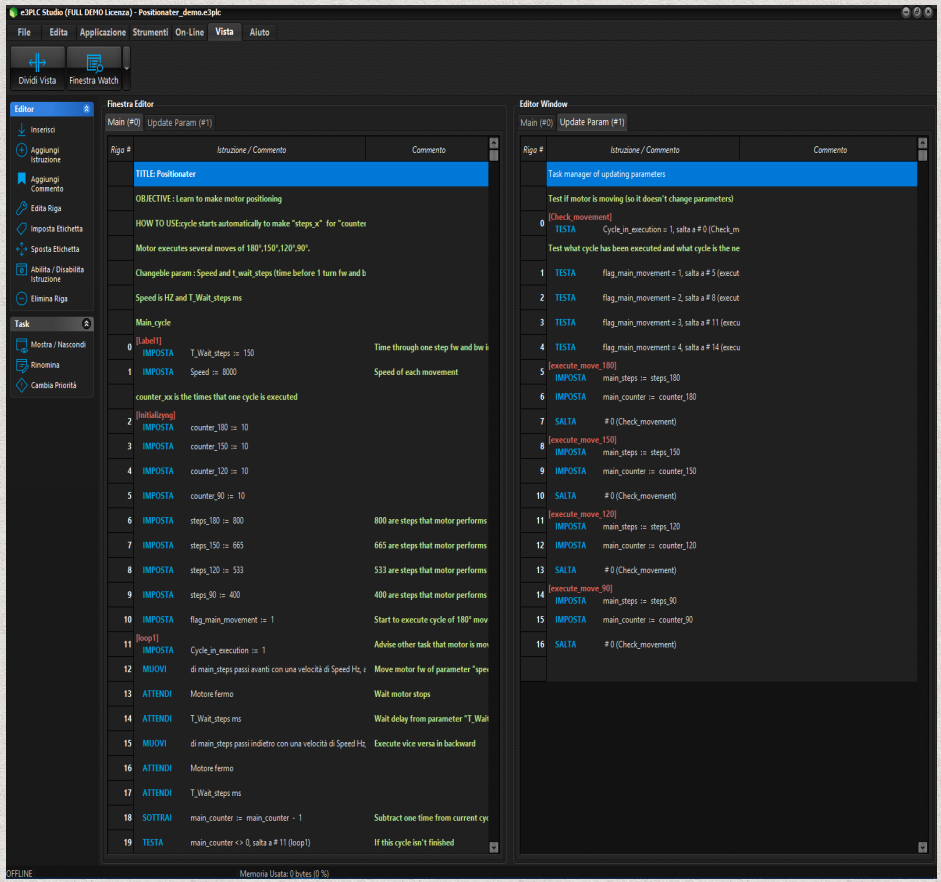
News compared to eePLC

- New format file .e3plc
- Possibility to import old .eePLC files



News compared to eePLC

- **Split Pane functionality**
- Possibility to display two tasks side by side



News compared to eePLC

- **Comments on each instruction line**
- Possibility to resize the colums “Instruction” and “Comment”

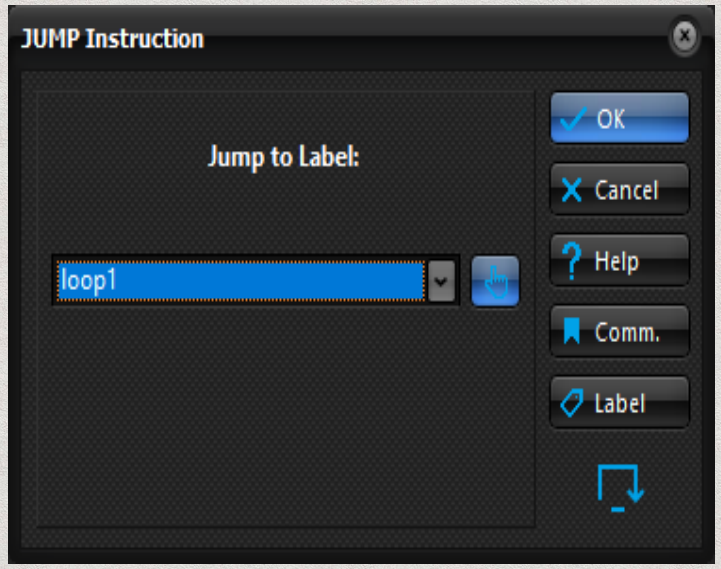
Line #	*Instruction / Comment*	*Comment*
0	[Label1] SET T_Wait_steps (User Var) := 150 (96H)	Time through one step fw and bw in each cycle

Improvements compared to eePLC

- More space for the user application (~ 5 volte greater)
- More speed of execution
    - (eePLC SlimLine: ~100µs for each instruction)
    - (e3PLC Titanio : ~10µs for each instruction)

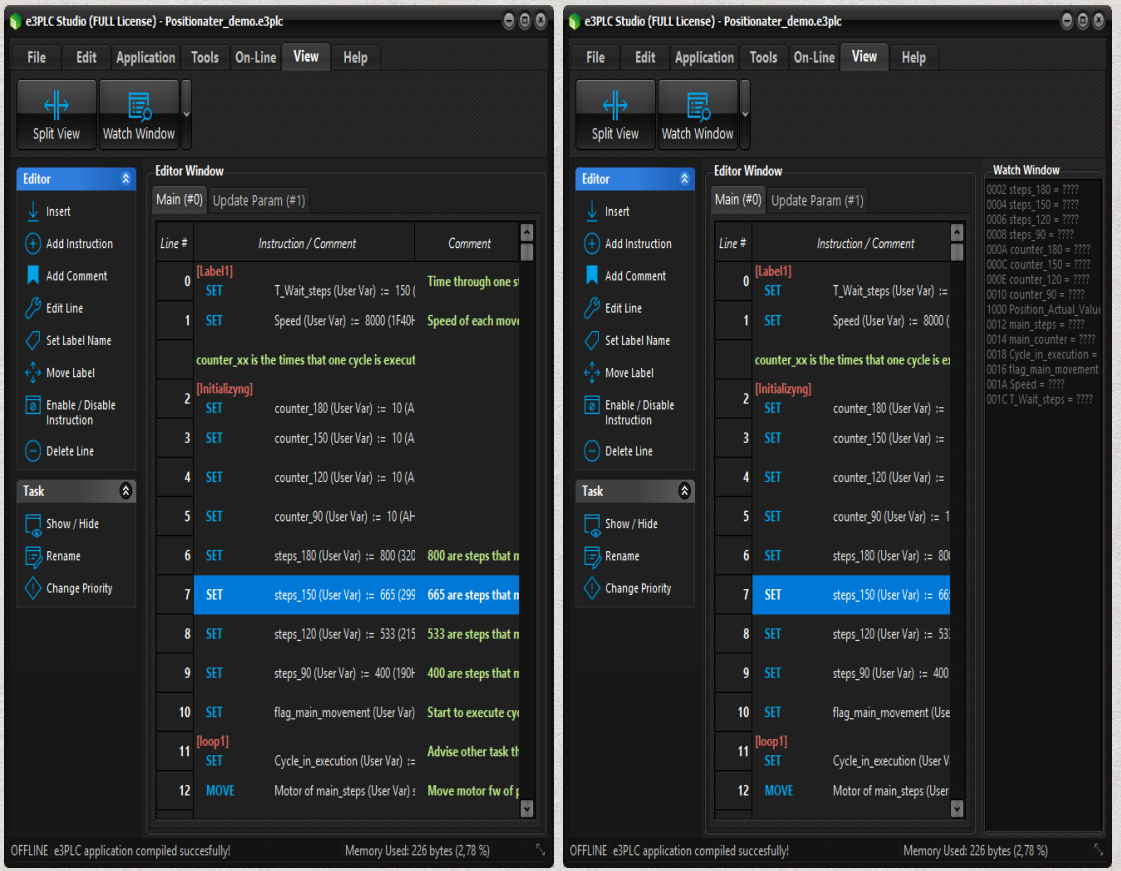
Improvements compared to eePLC

- Improved Label management
- Insertion guided by JUMP, TEST and CAL instructions
- Move Label functionality
- Possibility to define the labels during the editing of the instructions



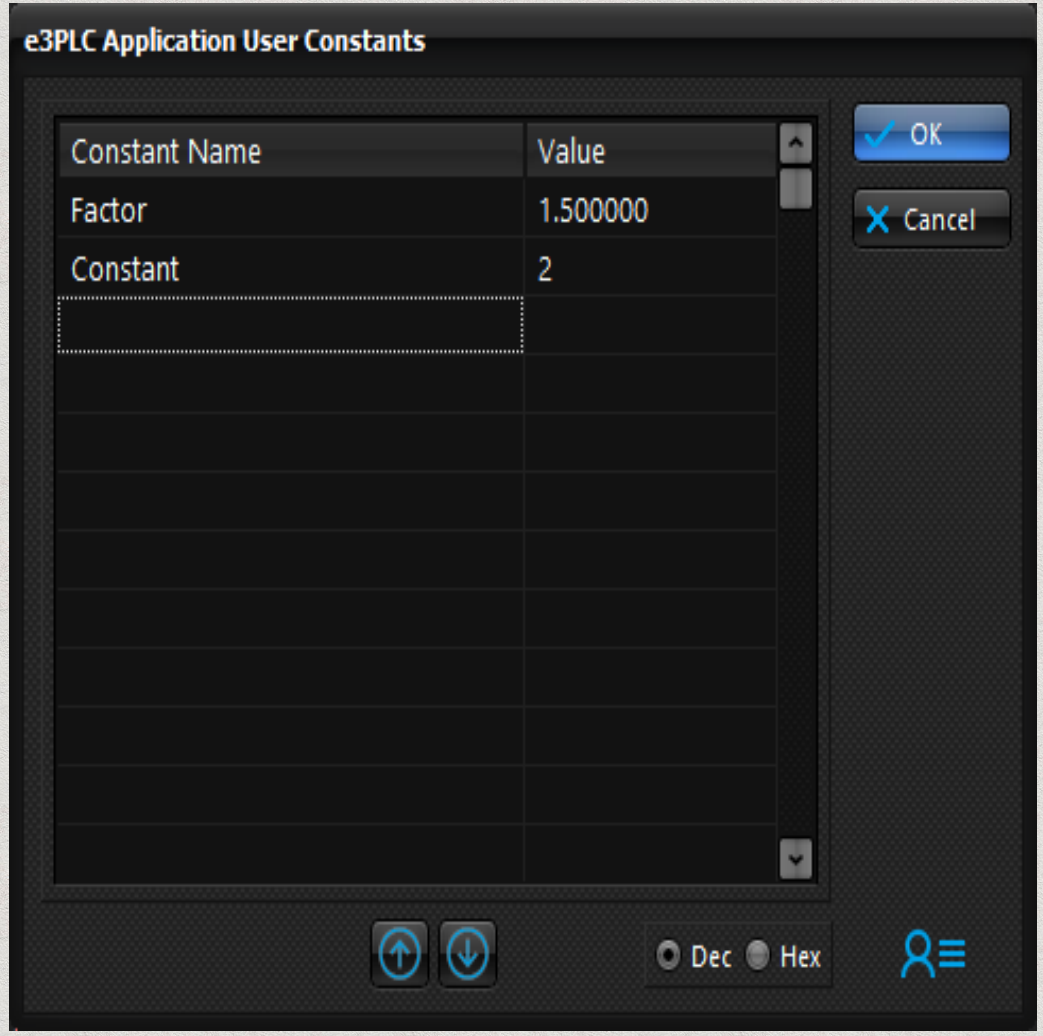
Improvements compared to eePLC

- Watch Window position selectable (bottom or right)
- Possibility to hide Watch Window (more space for program editing)



Improvements compared to eePLC

- User Constants:
  - Move function
  - Rename function
  - Duplicate check



Improvements compared to eePLC

- Possibility to select the Editor display mode
- Detailed (as with eePLC)
- Simple (more concise, suitable for side by side Tasks)

Editor View

Detailed

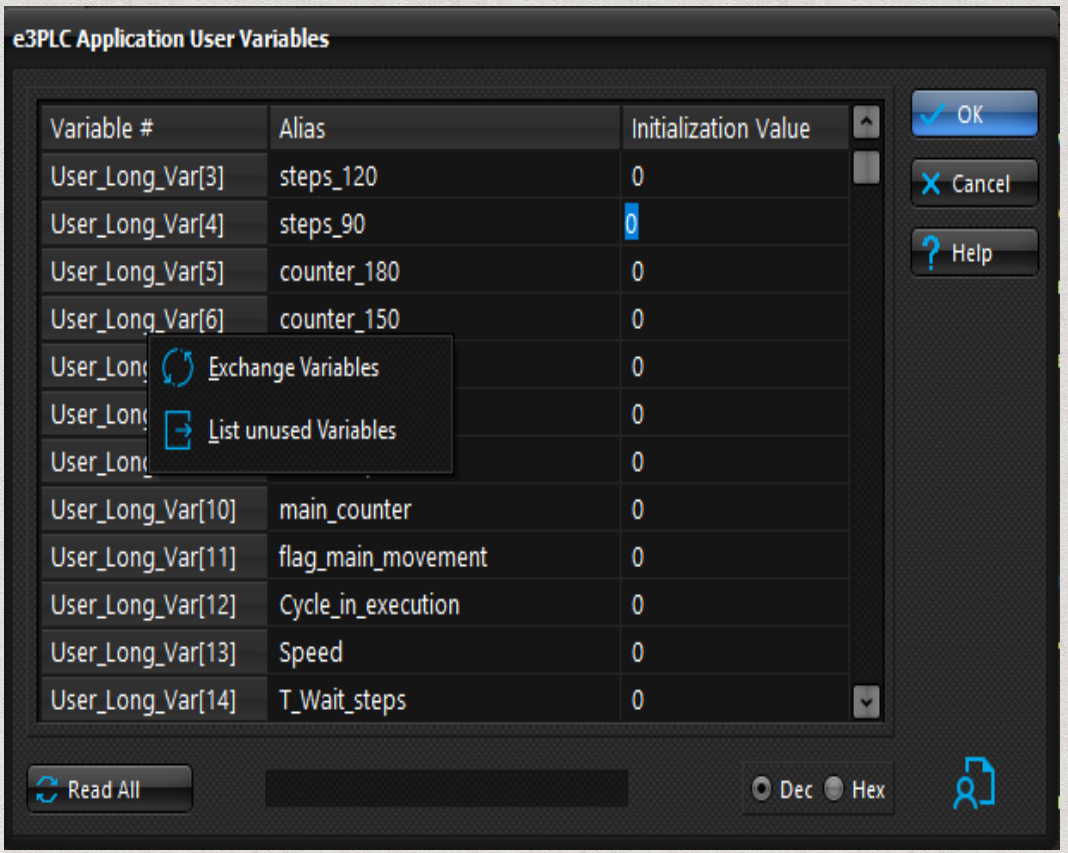
```
17  WAIT        a delay of T_Wait_steps (User Var) ms
18  SUBTRACT    main_counter (User Var) :=  main_counter (User Var)  -  1 (1H)
19  TEST        if main_counter (User Var) is different than 0 (0H), if true jump to line # 11
20  WAIT        a delay of 2000 (7D0H) ms
21  SET         Cycle_in_execution (User Var) :=  0 (0H)
```

Simple

```
17  WAIT        T_Wait_steps ms
18  SUBTRACT    main_counter :=  main_counter  -  1
19  TEST        main_counter <> 0, jump to # 11 (loop1)
20  WAIT        2000 ms
21  SET         Cycle_in_execution :=  0
```

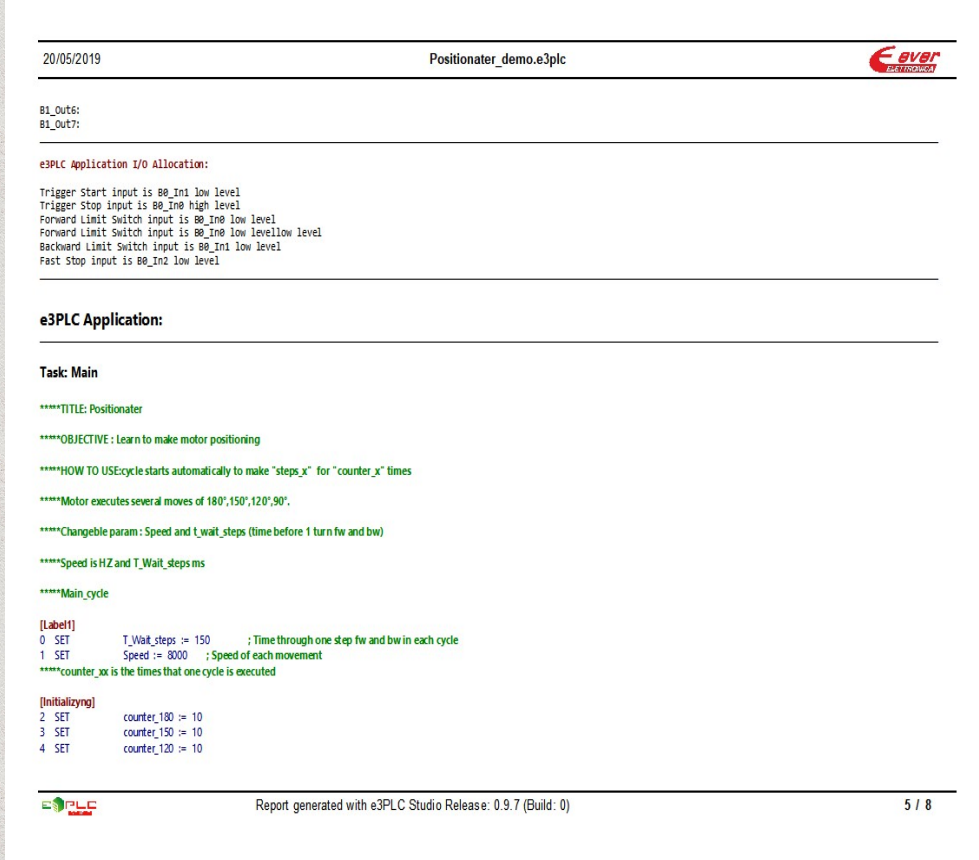
Improvements compared to eePLC

- User variables:
- Control function and cancellation of unused variables



Improvements compared to eePLC

- Graphic format report
- Possibility of exporting files in PDF, RTF, CSV, etc.



20/05/2019 Positionater_demo.e3plc

B1_Out6:
B1_Out7:

e3PLC Application I/O Allocation:

Trigger Start input is B0_In1 low level
Trigger Stop input is B0_In0 high level
Forward Limit Switch input is B0_In0 low level
Forward Limit Switch input is B0_In0 low levellow level
Backward Limit Switch input is B0_In1 low level
Fast Stop input is B0_In2 low level

e3PLC Application:

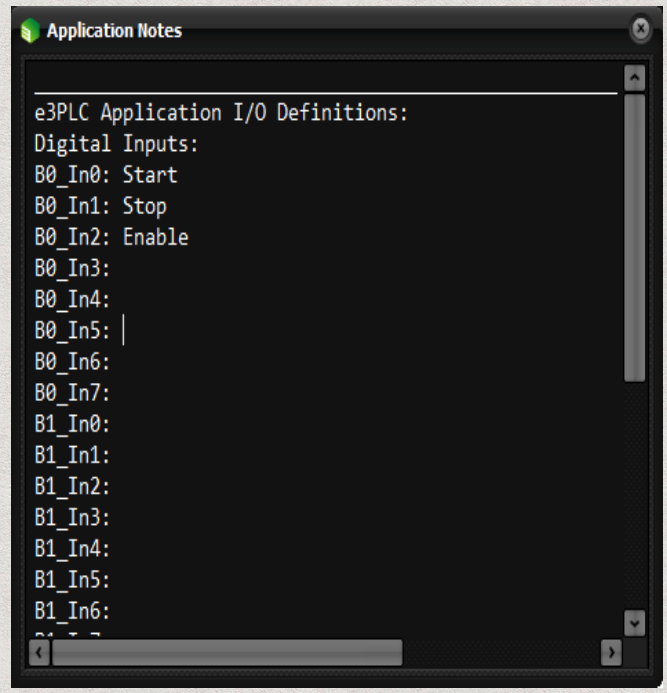
Task: Main

```
*****TITLE: Positionater

*****OBJECTIVE : Learn to make motor positioning

*****HOW TO USE:cycle starts automatically to make "steps_x"  for "counter_x" times

*****Motor executes several moves of 180°,150°,120°,90°.

*****Changeble param : Speed and t_wait_steps (time before 1 turn fw and bw)

*****Speed is HZ and T_Wait_steps ms

*****Main_cycle

[Label1]
0  SET          T_Wait_steps := 150        ; Time through one step fw and bw in each cycle
1  SET          Speed := 8000      ; Speed of each movement
*****counter_xx is the times that one cycle is executed

[Initializyng]
2  SET          counter_180 := 10
3  SET          counter_150 := 10
4  SET          counter_120 := 10
```

Report generated with e3PLC Studio Release: 0.9.7 (Build: 0) 5 / 8

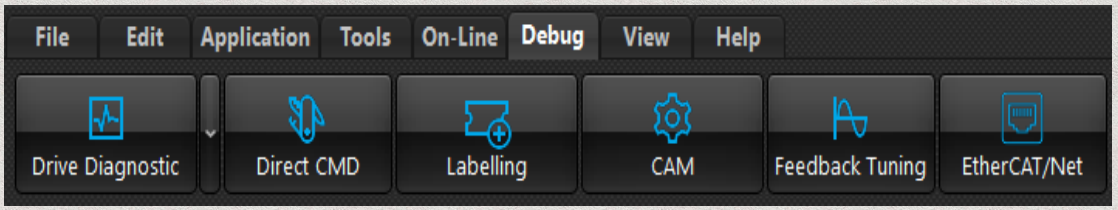
Improvements compared to eePLC

- Application notes:
  - Display in separate window (always visible during program editing)
  - Possibility to insert the I/O description



Improvements compared to eePLC

- Improved debug:
  - Debug dedicated tab
  - Scope Monitor: Graphical display of motion parameters




PLC
STUDIO