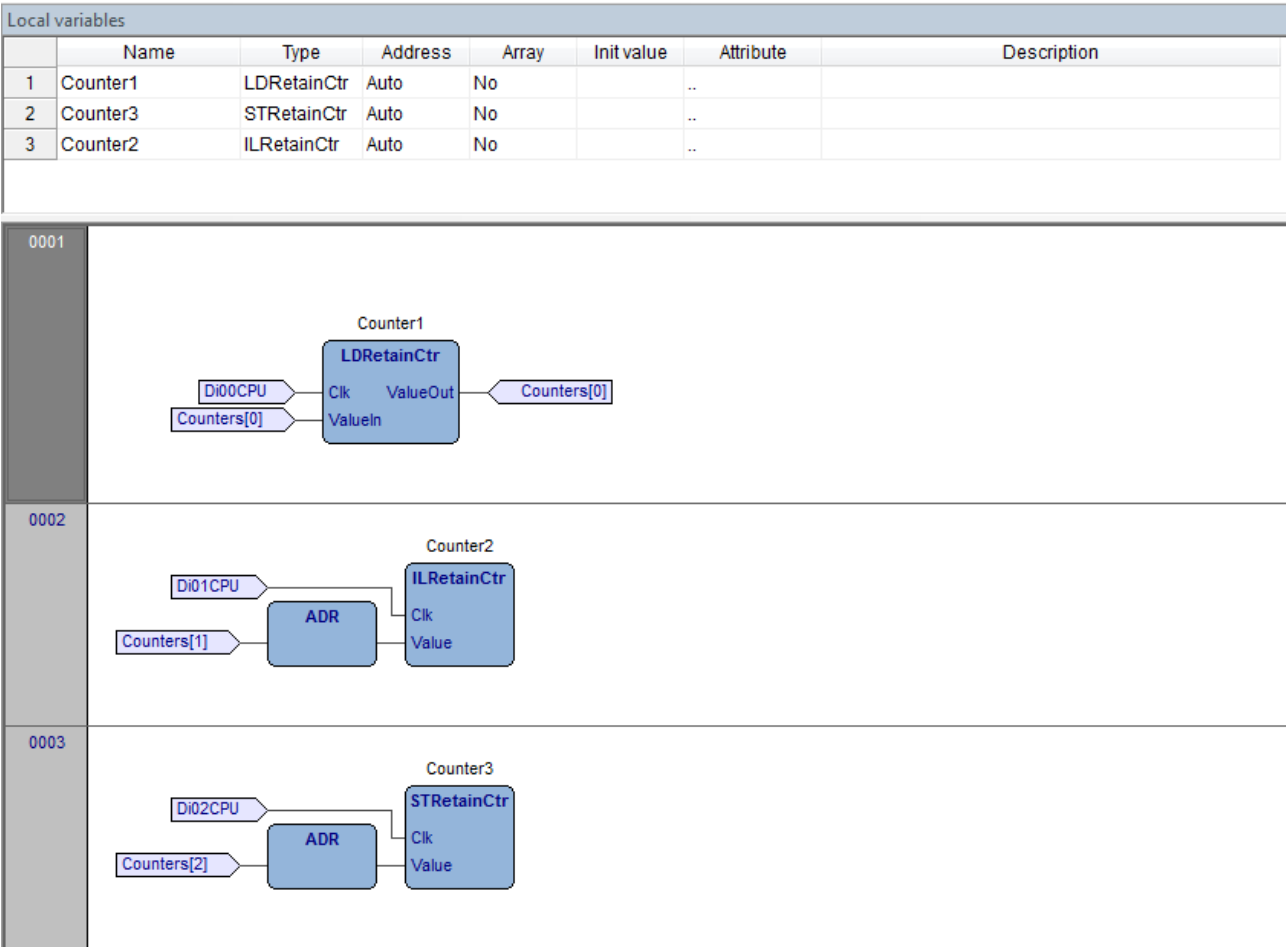


VARIABLES

```
VAR_GLOBAL
Di00CPU AT %IX255.0 : BOOL; (* Di00 CPU module *)
Counters AT %MW100.2048 : ARRAY[ 0..2 ] OF UINT; (* Counters *)
Di01CPU AT %IX255.1 : BOOL; (* Di01 CPU module *)
Di02CPU AT %IX255.2 : BOOL; (* Di02 CPU module *)
END_VAR
```

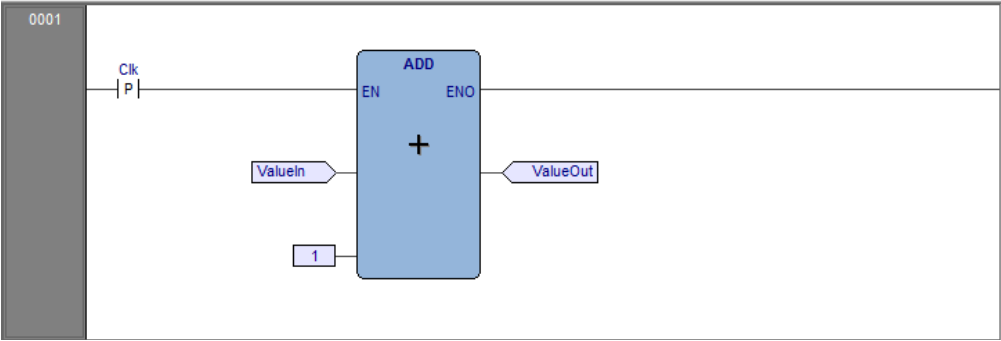
	Project : RetainCounter	
	VARIABLES :	
	Release : Xtarget	Ver :1.00
	Author :	Date:31/10/2017
	Note :	Page:1 of 1

Programma FBD



FB LDRetainCtr

Local variables								
	Class	Pin	Name	Type	Array	Init value	Attribute	Description
1	VAR_INPUT	0	Clk	BOOL	No		..	Counter clock
2	VAR_INPUT	1	ValueIn	UINT	No		..	Counter value in
3	VAR_OUTPUT	0	ValueOut	UINT	No		..	Counter value out



```
VAR_INPUT
Clk : BOOL; (* Counter clock *)
Value : @UINT; (* Counter value address *)
END_VAR
```

```
VAR
Pulse : BOOL; (* Pulse memo *)
END_VAR
```

```
1 (* ***** *)
2 (* FUNCTION BLOCK "ILRetainCtr" *)
3 (* ***** *)
4 (* Questo blocco funzione gestisce un counter su memoria ritentiva. *)
5 (* ----- *)
6
7     (* Controllo se fronte variazione ingresso di clock. *)
8
9     LD Clk
10    XOR Pulse
11    JMPCN FBEnd
12
13    (* Copio stato ingresso di clock. *)
14
15    LD Clk
16    ST Pulse
17
18    (* Controllo se fronte di salita ingresso di clock. *)
19
20    LD Clk
21    JMPCN FBEnd
22
23    (* Sul fronte di salita ingresso di clock incremento counter. *)
24
25    LD @Value
26    ADD 1
27    ST @Value
28
29 FBEnd:
30
31 (* [End of file] *)
32
```

Project : RetainCounter

FUNCTION_BLOCK : ILRetainCtr

Release : Xtarget

Ver :1.00

Author :

Date:31/10/2017

Note :

Page:1 of 1

```
VAR_INPUT
Clk : BOOL; (* Counter clock *)
Value : @UINT; (* Counter value address *)
END_VAR
```

```
VAR
Pulse : BOOL; (* Pulse memo *)
END_VAR
```

```
1 (* ***** *)
2 (* FUNCTION BLOCK "STRetainCtr" *)
3 (* ***** *)
4 (* Questo blocco funzione gestisce un counter su memoria ritentiva. *)
5 (* ----- *)
6
7 (* Controllo se fronte variazione ingresso di clock. *)
8
9 IF (Clk <> Pulse) THEN
10
11     (* Copio stato ingresso di clock. *)
12
13     Pulse:=Clk;
14
15     (* Controllo se fronte di salita ingresso di clock. *)
16
17     IF (Clk) THEN
18
19         (* Sul fronte di salita ingresso di clock incremento counter. *)
20
21         @Value:=@Value+1;
22     END_IF;
23 END_IF;
24
25 (* [End of file] *)
26
```

Project : RetainCounter

FUNCTION BLOCK : STRetainCtr

Release : Xtarget

Ver :1.00

Author :

Date:31/10/2017

Note :

Page:1 of 1