

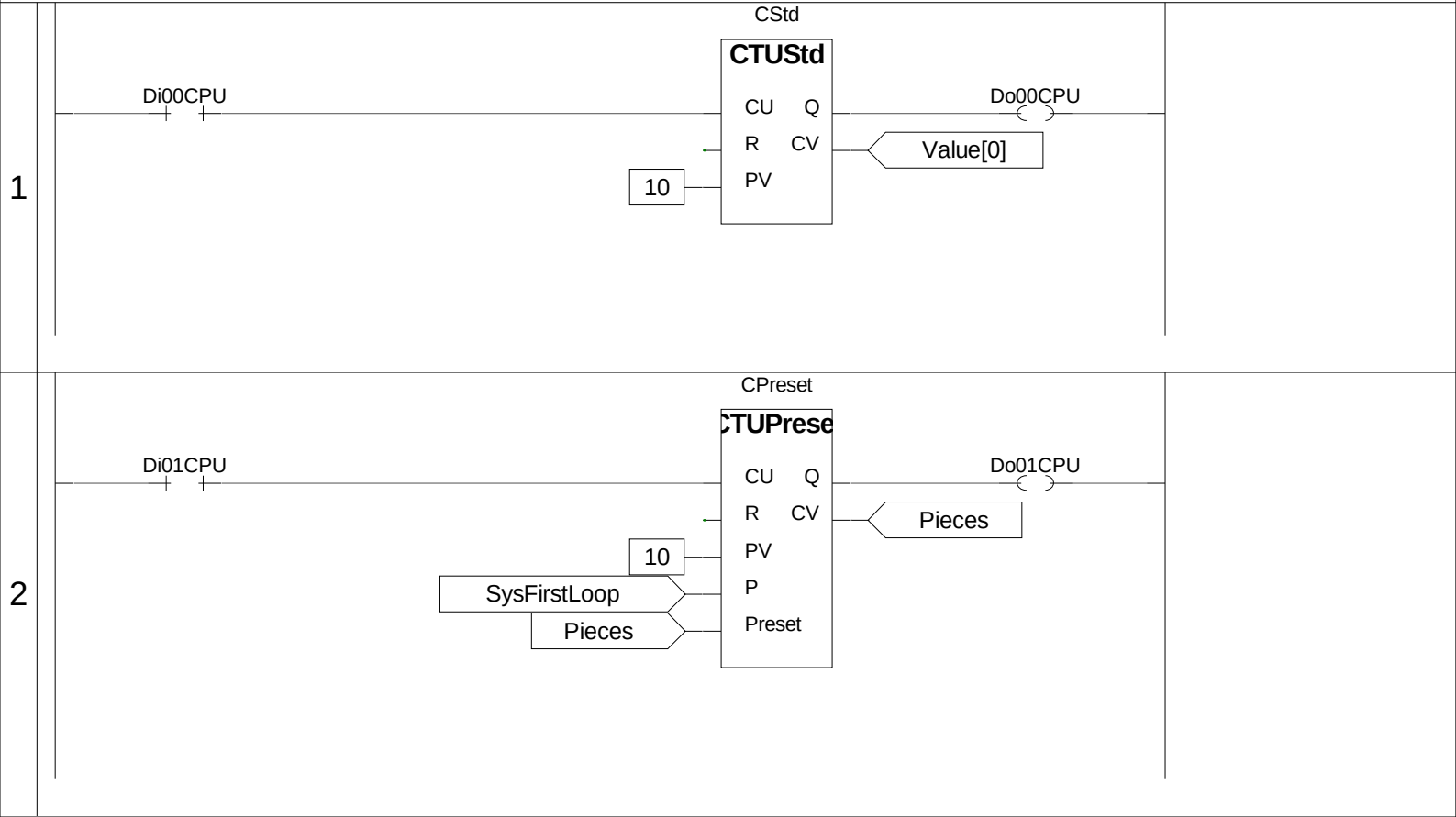
VARIABLES

VAR_GLOBAL

```
Di00CPU AT %IX255.0 : BOOL; (* Input 00 CPU module *)
Di01CPU AT %IX255.1 : BOOL; (* Input 01 CPU module *)
Do00CPU AT %QX255.0 : BOOL; (* Output 00 CPU module *)
Do01CPU AT %QX255.1 : BOOL; (* Output 01 CPU module *)
Pieces AT %MX100.2048 : UDINT; (* Pieces counter *)
END_VAR
```

	Project : CTUProject	
	VARIABLES :	
	Release : CTUProject	Ver :1.00
	Author :	Date:02/09/2013
	Note :	Page:1 of 1

```
VAR
CStd : CTUStd;
Value : ARRAY[ 0..1 ] OF UDINT;
CPreset : CTUPreset;
END_VAR
```



	Project : CTUProject	
	PROGRAM : LD	
	Release : CTUProject	Ver :1.00
	Author :	Date:02/09/2013
	Note :	Page:1 of 1

```
VAR_INPUT
CU : BOOL; (* Counter signal *)
R : BOOL; (* Force reset *)
PV : INT; (* Preset value *)
END_VAR

VAR_OUTPUT
Q : BOOL; (* Output *)
CV : INT; (* Actual counter value *)
END_VAR

VAR
CUMemo : BOOL := FALSE; (* CU status memo *)
END_VAR
```

```
1 (* ***** *)
2 (* FUNCTION BLOCK "CTUStd" *)
3 (* ***** *)
4 (* La variabile "CV" è inizializzata a 0 su comando reset "R". Ad ogni rising *)
5 (* edge di "CU", "CV" viene incrementata. Quando "CV" è maggiore o uguale a *)
6 (* "PV", "Q" viene settato a TRUE e il conteggio si ferma. Solo agendo su "R" *)
7 (* si potrà iniziare un nuovo conteggio. *)
8 (* ----- *)
9
10 IF (CU AND NOT CUMemo) THEN
11     IF (CV < PV) THEN CV:=CV+1; END_IF;
12 END_IF;
13
14 CUMemo:=CU; (* CU status memo *)
15 IF R THEN CV:=0; END_IF; (* Reset command *)
16 Q:=(CV >= PV); (* Output management *)
17
18 (* [End of file] *)
19
20
```

Project : CTUProject

FUNCTION BLOCK : CTUStd

Release : CTUProject

Ver :1.00

Author :

Date:02/09/2013

Note :

Page:1 of 1

```
VAR_INPUT
CU : BOOL; (* Counter signal *)
R : BOOL; (* Force reset *)
PV : UDINT; (* Preset value *)
P : BOOL; (* Preset command *)
Preset : UDINT; (* Preset value *)
END_VAR

VAR_OUTPUT
Q : BOOL; (* Output *)
CV : UDINT; (* Actual counter value *)
END_VAR

VAR
CUMemo : BOOL := FALSE; (* CU status memo *)
END_VAR
```

```
1 (* ***** *)
2 (* FUNCTION BLOCK "CTUPreset" *)
3 (* ***** *)
4 (* Blocco funzione counte Up modificato con preset. *)
5 (* ----- *)
6
7     IF (CU AND NOT CUMemo) THEN
8         IF (CV < PV) THEN CV:=CV+1; END_IF;
9     END_IF;
10
11     CUMemo:=CU; (* CU status memo *)
12
13     IF P THEN CV:=Preset; END_IF; (* Preset command *)
14     IF R THEN CV:=0; END_IF; (* Reset command *)
15     Q:=(CV >= PV); (* Output management *)
16
17 (* [End of file] *)
18
19
```

	Project : CTUProject	
	FUNCTION BLOCK : CTUPreset	
	Release : CTUProject	Ver :1.00
	Author :	Date:02/09/2013
	Note :	Page:1 of 1