

VARIABLES

VAR_GLOBAL

Counter : ARRAY[0..3] OF UDINT; (* Pulse counter *)

END_VAR

	Project : IOCounter	
	VARIABLES :	
	Release : SpeedCalc	Ver :1.00
	Author :	Date:31/01/2014
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```
VAR
DInp : SysGetPhrDI; (* Digital input acquisition *)
Pulse : ARRAY[ 0..1 ] OF BOOL; (* Input pulse *)
END_VAR
```

```
1 (* ***** *)
2 (* PROGRAM "FastClockCounter" *)
3 (* ***** *)
4 (* Here manage the 2 fast clock counter. *)
5 (* ----- *)
6
7 (* ----- *)
8 (* PROGRAM INIT *)
9 (* ----- *)
10 (* At first program execution loop init all variables. *)
11
12 IF (SysFirstLoop) THEN
13     DInp.Address:=255; (* Module address *)
14     DInp.Mode:=DI_8_LL; (* Acquisition mode *)
15 END_IF;
16
17 (* ----- *)
18 (* PULSES COUNTERS *)
19 (* ----- *)
20 (* Acquires the CPU module digital inputs. *)
21
22 DInp(); (* Digital input acquisition *)
23
24 (* Count pulses on DI00. *)
25
26 IF (TO_BOOL(DInp.Value AND 16#01) <> Pulse[0]) THEN
27     Pulse[0]:=TO_BOOL(DInp.Value AND 16#01); (* Input pulse *)
28
29     (* If you check "Pulse", the counter is increased only on rising edge *)
30     (* of clock signal. *)
31
32     IF (Pulse[0]) THEN Counter[0]:=Counter[0]+1; END_IF;
33 END_IF;
34
35 (* Count pulses on DI01. *)
36
37 IF (TO_BOOL(DInp.Value AND 16#02) <> Pulse[1]) THEN
38     Pulse[1]:=TO_BOOL(DInp.Value AND 16#02); (* Input pulse *)
39
40     (* If you check "Pulse", the counter is increased only on rising edge *)
41     (* of clock signal. *)
42
43     IF (Pulse[1]) THEN Counter[1]:=Counter[1]+1; END_IF;
44 END_IF;
45
46 (* [End of file] *)
47
48
```

	Project : IOCounter	
	PROGRAM : FastClockCounter	
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PROGRAM SlowClockCounter

```

VAR
DInp : SysGetPhrDI; (* Digital input acquisition *)
Pulse : ARRAY[ 0..1 ] OF BOOL; (* Input pulse *)
END_VAR

```

```

1 (* ***** *)
2 (* PROGRAM "SlowClockCounter" *)
3 (* ***** *)
4 (* Here manage the 2 slow clock counter. *)
5 (* ----- *)
6
7 (* ----- *)
8 (* PROGRAM INIT *)
9 (* ----- *)
10 (* At first program execution loop init all variables. *)
11
12 IF (SysFirstLoop) THEN
13     DInp.Address:=0; (* Module address *)
14     DInp.Mode:=DI_8_LL; (* Acquisition mode *)
15 END_IF;
16
17 (* ----- *)
18 (* PULSES COUNTERS *)
19 (* ----- *)
20 (* Acquires the CPU module digital inputs. *)
21
22 DInp(); (* Digital input acquisition *)
23
24 (* Count pulses on DI00. *)
25
26 IF (TO_BOOL(DInp.Value AND 16#01) <> Pulse[0]) THEN
27     Pulse[0]:=TO_BOOL(DInp.Value AND 16#01); (* Input pulse *)
28
29     (* If you check "Pulse", the counter is increased only on rising edge *)
30     (* of clock signal. *)
31
32     IF (Pulse[0]) THEN Counter[2]:=Counter[2]+1; END_IF;
33 END_IF;
34
35 (* Count pulses on DI01. *)
36
37 IF (TO_BOOL(DInp.Value AND 16#02) <> Pulse[1]) THEN
38     Pulse[1]:=TO_BOOL(DInp.Value AND 16#02); (* Input pulse *)
39
40     (* If you check "Pulse", the counter is increased only on rising edge *)
41     (* of clock signal. *)
42
43     IF (Pulse[1]) THEN Counter[3]:=Counter[3]+1; END_IF;
44 END_IF;
45
46 (* [End of file] *)
47
48

```

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PROGRAM StartUp

```
VAR
EOk : BOOL; (* Execution Ok *)
END_VAR
```

```
1 (* ***** *)
2 (* PROGRAM "StartUp" *)
3 (* ***** *)
4 (* This program is executed at system start up. *)
5 (* ----- *)
6
7 (* ----- *)
8 (* SET UP THE FAST EXECUTION *)
9 (* ----- *)
10 (* Just to show how to change the fast task execution time here set a *)
11 (* value less than the default. *)
12
13 EOk:=SysSetTaskLpTime(TaskID:=ID_TASK_FAST, Time:=800); (* Execution Ok *)
14
15 (* [End of file] *)
16
```

Project : IOCounter

PROGRAM : StartUp

Release : SpeedCalc

Ver :1.00

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