

VARIABLES

```

VAR_GLOBAL
Di00CPU AT %IX255.0 : BOOL; (* Di 00 CPU Module *)
Di01CPU AT %IX255.1 : BOOL; (* Di 01 CPU Module *)
Di02CPU AT %IX255.2 : BOOL; (* Di 02 CPU Module *)
Do00CPU AT %QX255.0 : BOOL; (* Do 00 CPU Module *)
Do01CPU AT %QX255.1 : BOOL; (* Do 01 CPU Module *)
END_VAR

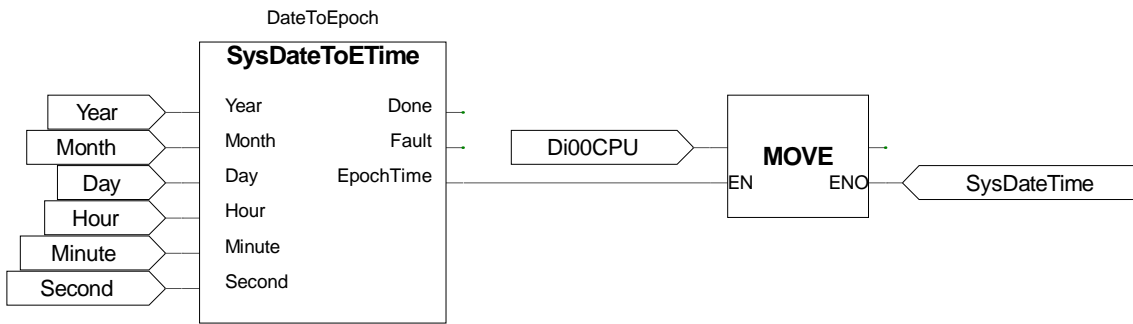
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	Project : TimeSwitch	
	VARIABLES :	
	Release :	Ver :1.00
	Author :	Date:01/12/2014
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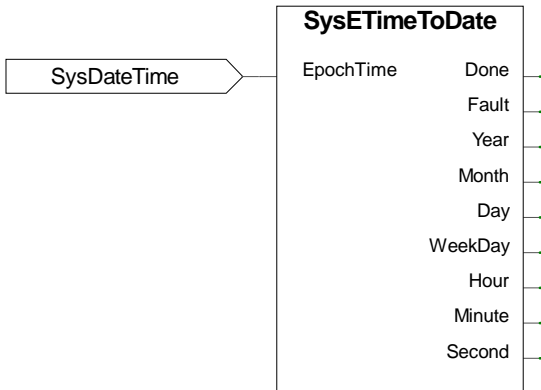
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VAR
HourOn : USINT := 10;
MinuteOn : USINT := 1;
SecondOn : USINT := 10;
SecondOff : USINT := 50; (* Time Off (Second) *)
MinuteOff : USINT := 1; (* Time Off (Minute) *)
HourOff : USINT := 10; (* Time Off (Hour) *)
DateToEpoch : SysDateToETime; (* FB Date to Epoch time *)
Year : UINT := 2014; (* Set Year *)
Month : USINT := 11; (* Set Month *)
Day : USINT := 15; (* Set Day *)
Hour : USINT := 10; (* Set Hour *)
Minute : USINT := 0; (* Set Minute *)
Second : USINT := 55; (* Set Second *)
EpochToDate : SysETimeToDate;
END_VAR
    
```

Da utilizzarsi per impostare l'orario (E' utile nei test)



EpochToDate



Project : TimeSwitch

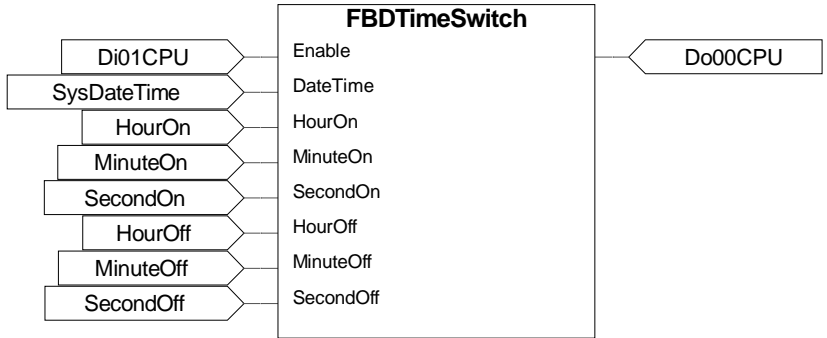
PROGRAM : FBD

Release : Ver :1.00

Author : Date:01/12/2014

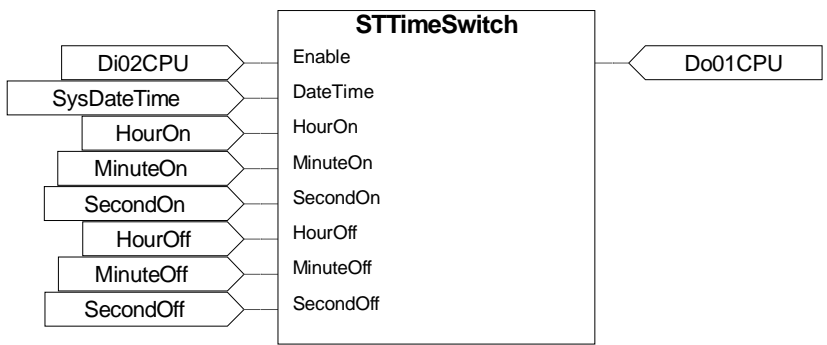
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Utilizzo della funzione di temporizzazione realizzata in FBD



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Utilizzo della funzione di temporizzazione realizzata in ST



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Project : TimeSwitch	
PROGRAM : FBD	
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FUNCTION STTimeSwitch

```

VAR_INPUT
Enable : BOOL; (* FB Enable *)
DateTime : UDINT; (* Date/Time (Epoch) *)
HourOn : USINT; (* Time On (Hour) *)
MinuteOn : USINT; (* Time On (Minute) *)
SecondOn : USINT; (* Time On (Second) *)
HourOff : USINT; (* Time Off (Hour) *)
MinuteOff : USINT; (* Time Off (Minute) *)
SecondOff : USINT; (* Time Off (Second) *)
END_VAR

```

```

1 (* ***** *)
2 (* FUNCTION "STTimeSwitch" *)
3 (* ***** *)
4 (* Questa FB controlla gli orari impostati ed attiva l'uscita se ora è nel *)
5 (* range definito. *)
6 (* ----- *)
7
8 (* ----- *)
9 (* GESTIONE TEMPORIZZAZIONE *)
10 (* ----- *)
11 (* Controllo se funzione abilitata. *)
12
13 IF NOT(Enable) THEN STTimeSwitch:=FALSE; RETURN; END_IF;
14
15 (* Controllo se funzione abilitata. *)
16
17 IF (MOD(DateTime, 86400) >= ((TO_UDINT(HourOn)*3600)+(TO_UDINT(MinuteOn)*60)+SecondOn)) THEN
18     STTimeSwitch:=TRUE; (* Function result *)
19 END_IF;
20
21 IF (MOD(DateTime, 86400) >= ((TO_UDINT(HourOff)*3600)+(TO_UDINT(MinuteOff)*60)+SecondOff)) THEN
22     STTimeSwitch:=FALSE; (* Function result *)
23 END_IF;
24
25 (* [End of file] *)
26
27

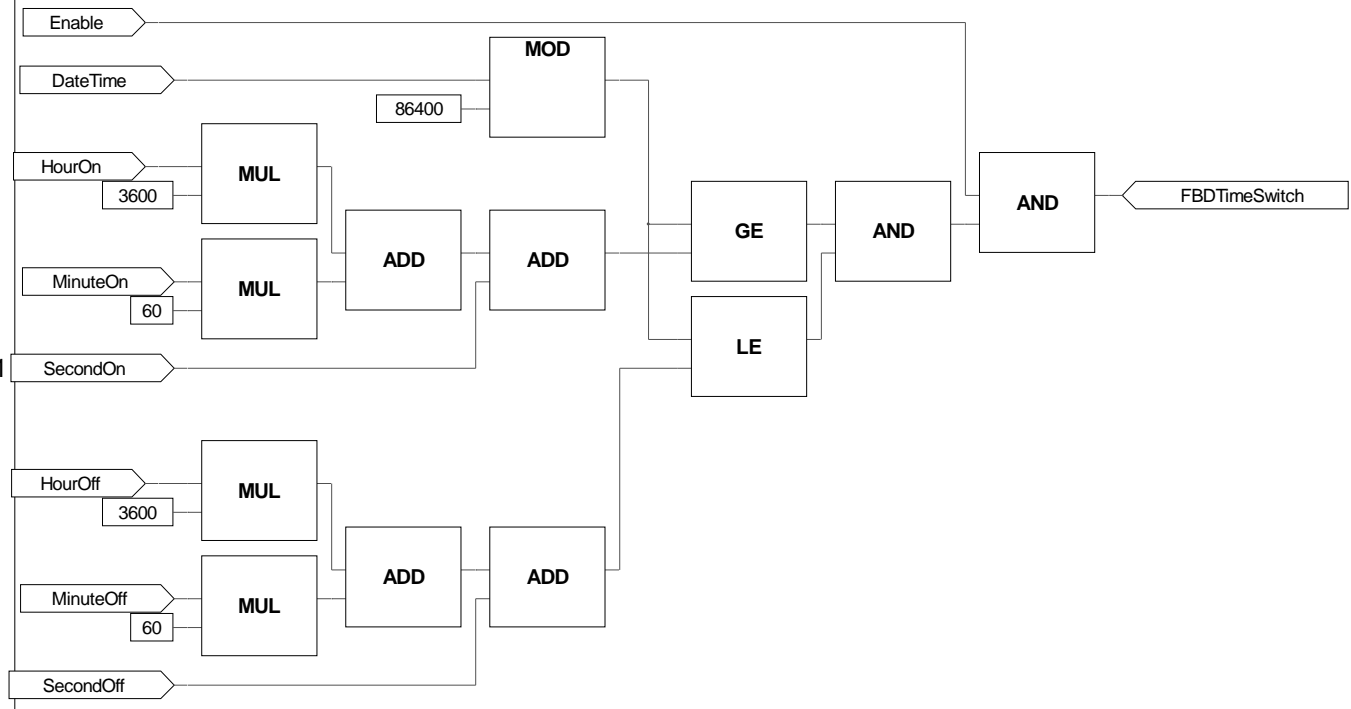
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FUNCTION : STTimeSwitch	
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FUNCTION FBTimeSwitch

```

VAR_INPUT
Enable : BOOL; (* FB Enable *)
DateTime : UDINT; (* Date/Time (Epoch) *)
HourOn : USINT; (* Time On (Hour) *)
MinuteOn : USINT; (* Time On (Minute) *)
SecondOn : USINT; (* Time On (Second) *)
HourOff : USINT; (* Time Off (Hour) *)
MinuteOff : USINT; (* Time Off (Minute) *)
SecondOff : USINT; (* Time Off (Second) *)
END_VAR
    
```



Project : TimeSwitch	
FUNCTION : FBTimeSwitch	
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