

Advantech SE Technical Share Document

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Category	□ FAQ □ SOP	Related Produc	t CODESYS	
	■Driver Tech Note			
Abstract	How to execute the program periodically?			
Keyword	CODESYS, Task Cycle Time			
Related OS				
Revision History				
Date	Version	Author	Reviewer	Description
2019/11/12	V1.0	Owen.Chang	Nick.Liu	CODESYS SP15

■ Problem Description & Architecture:

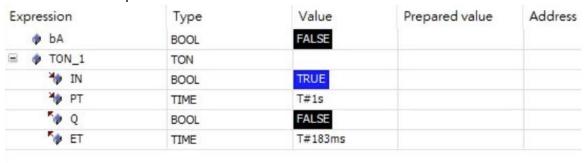
This FAQ shows how to execute the program periodically.

■ Brief Solution - Step by Step:

1. Use TON function

Please refer to the following program.

- 1. TON 1.Q will be True after 1 sec
- 2. bA will be flipped.
- 3. Next cycle, TON_1.IN := NOT TON_1.Q, so TON_1.IN = False
- 4. Next cycle, TON_1.IN := NOT TON_1.Q, so TON_1.IN = True
- 5. Back to the step one.



```
TON_1(IN TRUE := NOT TON_1.Q FALSE, PT T#1s := T#1s);

IF TON_1.Q FALSE = TRUE THEN

ba false := Not ba false;

END_IFRETURN
```



2. Set the periodical in task

Please refer to the following task configuration tab.

PLC_PRG will be executed every 20ms.

