

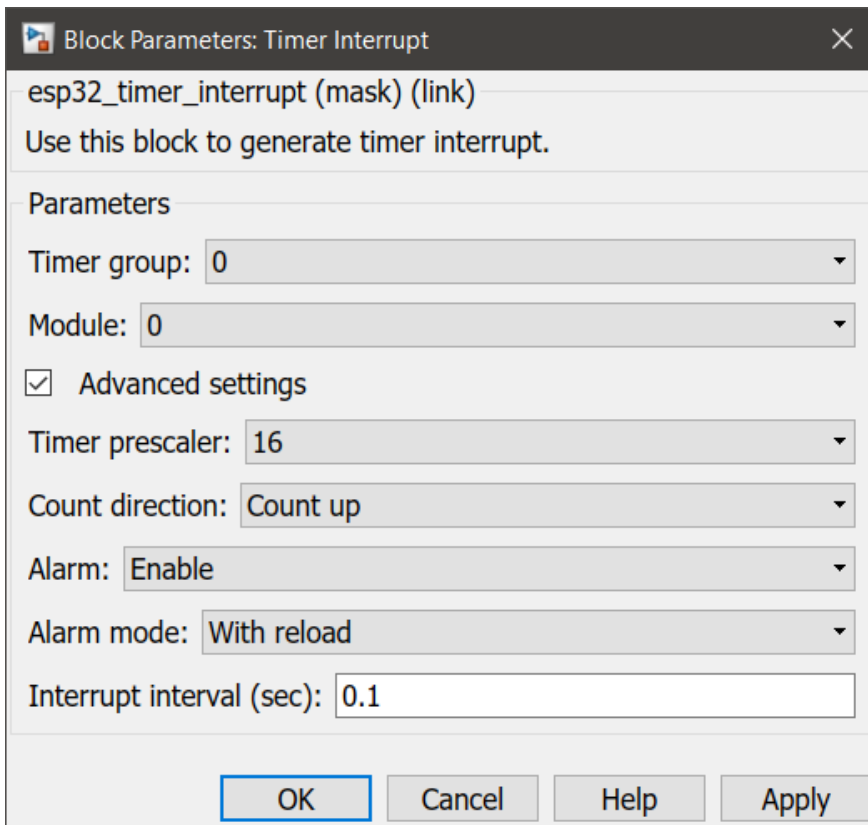
Timer Interrupt Block

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How this block appears in a Simulink model?

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What can be configured?



Configuration Parameter	Selectable Option/Value	Description
Timer group	0--1	Select timer group
Module	0--1	Select timer module
Advanced settings	Check--Uncheck	
Timer pre-scaler	2--4--8--16--32--64--128	How quickly the timer's counter is "ticking". This depends on the setting of divider, that will be used as divisor of the incoming 80 MHz APB_CLK clock.
Count direction	Count up--Count down	Sets if the counter should be incrementing or decrementing.
Alarm	Enable--Disable	Enable/Disable the alarm.
Alarm mode	With reload--Without reload	Set if the initial counter value should be reloaded on the timer's alarm.
Interrupt interval (sec)		Select the interrupt interval.

When to use this block?

This block can be used to set up an Interrupt Service Routine (ISR) that could be triggered by a built in TIMER module.

How does this block work?

Depending on the input trigger configuration, when the specified trigger conditions are met the block will output a logic 'true' signal that could activate a function call subsystem in Simulink.

Demo

[Timer Interrupt demo](#)

Previous : [GPIO Interrupt Block](#)

Next : [UART Setup Block](#)

Files

appearance_TIMER.PNG	9.86 KB	20 Oct 2020	Vasitha Tilakumara (රාච්චි)
mask_TIMER.PNG	39.6 KB	20 Oct 2020	Vasitha Tilakumara (රාච්චි)