

## PWM for LED

*This module is part of the original MMBasic library. It is reproduced here with kind permission of Hugh Buckle and Geoff Graham. Be aware it may reference functionality which has changed or is deprecated in the latest versions of MMBasic.*

### PWMTRI.bas

```
' Author: Graeme Anderson
' Date: 29-Oct-2012
'
' Variable pulse width for front panel LED
' LED amplitude is a 'triangle' wave

iSeconds = 1 ' length of the whole cycle

Do
  iState = 1

  For y = 1 To 2
    For x = 1 To 50 * iSeconds Step iSeconds
      Pin(0) = iState ' first part of duty cycle
      Pause x / 5

      Pin(0) = Abs(iState - 1) ' reverse pin state
      Pause iSeconds * 10 - x / 5 ' hold for remainder of duty cycle
    Next
    ' reverse the logic for the second time through
    iState = Abs(iState - 1)
  Next
Loop
```

### PWMSIN.bas

```
' Author: Graeme Anderson
' Date: 29-Oct-2012
'
' Variable pulse width for front panel LED
' LED amplitude is a Sine wave

iSeconds = 1 ' length of the whole cycle

Do
  iState = 1
```

```
For y = 1 To 2
  For x = 0 To 90
    Pin(0) = iState ' first part of duty cycle
    Pause Sin(x*Pi/180) * iSeconds * 5

    Pin(0) = Abs(iState - 1) ' reverse pin state
    Pause (1-Sin(x*Pi/180)) * iSeconds * 5 ' hold for remainder of duty
cycle
  Next

  ' reverse the logic for the second time through
  iState = Abs(iState - 1)
Next
Loop
```

From:

<https://fruitoftheshed.com/wiki/> - FotS

Permanent link:

[https://fruitoftheshed.com/wiki/doku.php?id=mmbasic\\_original:pwm\\_for\\_led](https://fruitoftheshed.com/wiki/doku.php?id=mmbasic_original:pwm_for_led)

Last update: **2024/01/28 12:37**

