EE2361 - Lecture 33 11/28/16

· Discussion Cancelled 22829 November This Week · Output Compare: PICAMF FRM section 16 CDS39706A) PIC24F - Output Compare This is the comparment to Input Capture

Output Compare how 3 modes of operation

- · Single output pulse. · Continuous Output publises
- · Pulse Width modulation (PWM)

Fig. 16-1 in the 24F FRM block diagram of module Register 16-1 control register for OC -> select there -> select the mode

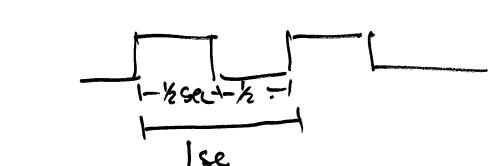
Set this for a single event Change the value on an the

Change the value on an the output pin on a compare success there also corporate

tive until policy changes

Figure In notes based on Figure 16-2 in FRM

Example with OC Blink an LED with the output compare on loff every second We can do this by traggling the output compare pin every 1/2 second



Look at 1:1 scoling and TMRZ 0.5 sec = N x 62.5 ns => N=8 x 106 this would require ~ 23 bits -> combing Timer 2 and Timer 3 for 32 bits swe con slow things down by scaling TMR2 prescule of 1:256 0.5 sec = N. 256 x 62.5 ns => N

hook at 3 coner for this

31250 corresponds to our or time
between successful comparer TMR2, octR

what about PR2?

3 causes PR2 < OCIR PR2 > OCIR PR2 > OCIR Figures for there 3 cases in FRM

Code Example

This lecture is based on PICAME FRM section 16 pages 16-1 to 16-9