



Improved Software PWM

<p><i>Author:</i> Mark Sullivan Joplin, MO USA msullivan@niobrara.com</p>

Code:

	MOVLW	WIDTH
	BSF	OUTPUT
	MOVWF	COUNT
ONTIME :	DECFSZ	ONTIME
	BCF	OUTPUT
	MOVWF	COUNT
OFFTIME :	INCFSZ	OFFTIME

INTRODUCTION

The canonical software PWM uses a `DECFSZ` timing loop to time the ON period and another `DECFSZ` loop to time the OFF period. It is necessary to compute $256-N$ for the second loop. By using `INCFSZ` for the second, OFF-time loop, it is not necessary to compute $256-N$, saving cycles.

