Improved Software PWM

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.

Author: Mark Sullivan
Joplin, MO
USA
msullivan@niobrara.com

Code:

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

Improved Software PWM

QUICKCODE™