Fast BCD to Decimal

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

INTRODUCTION

Particularily when using DIP or rotary switches in setting an address, it is frequently necessary to convert a BCD word to a binary integer.

This technique accomplishes such a conversion in a minimum of cycles and can be modified to work with polarity inverted BCD simply by changing the `BTFSC` instructions to `BTFSS`.

Code

```
MOVLW     0
BTFSC     BCDWORD,0
ADDLW     1
BTFSC     BCDWORD,1
ADDLW     2
BTFSC     BCDWORD,2
ADDLW     4
BTFSC     BCDWORD,3
ADDLW     8
BTFSC     BCDWORD,4
ADDLW     10
BTFSC     BCDWORD,5
ADDLW     20
BTFSC     BCDWORD,6
ADDLW     40
BTFSC     BCDWORD,7
ADDLW     80
```

QuickCode™