



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

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