

FW04-WAIT: Routine 1mS delay

Description

WAIT is a routine we wrote to generate delays from 1mS to 255mS.

What's Included

WAIT.INC	The delay routine
WAIT_DEMO.ASM	Demo program
P16F84.INC	PIC16F84 definitions
WAIT_DEMO.HEX	Assembled demo program
WAIT.PDF	This file

Operation/Usage

WAIT is a very simple but useful routine that takes the value in the W register and multiplies it by 1mS and generates a delay. It does this by setting up a 1mS loop then repeats that loop the number of times specified in the W register.

WAIT is setup by moving a delay value into the W register then invoked by: **CALL WAIT**

Testing

WAIT_DEMO.ASM is a program that demonstrates the wait routine. It switches on RB0 for 1 second by setting up a 250mS delay time and calls **WAIT**; the full 1 second delay is generated by doing this 4 times. The buzzer is turned off and another 1 second delay is generated, and the program then loops back to the top.

A Rapid18 PCB was used to test this program. RB0 was attached to BUZZ to activate the buzzer on the board when RB0 was high. A PIC16F84 was programmed with **WAIT_DEMO.HEX** and installed on the PCB.

When power was applied to the PCB the buzzer cycled on for a second and off for a second. I checked this against the second hand of my watch and it appeared to be perfectly synched so the delay routine appears to work as expected.

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