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/*****
/* Program      : DELAYS.H
/* Function     : Delay Utility Procedures Header File
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/*
/*           Currently these only work for 16MHz and 8MHz clock speeds
/*           It is assumed that _FAST_CLOCK is defined elsewhere.
/*           If defined then the clock speed is assumed to be 16MHz
/*
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*****/

#ifndef _DELAYS_H
#define _DELAYS_H

// Cycle based timing macros (processor speed independent)
#define delay_1tcy()    asm("\tclrwdt")
#define delay_2tcy()    asm("\tincf pcl, w") // this saved over 200 bytes in the program
#define delay_4tcy()    delay_2tcy();delay_2tcy()
#define delay_5tcy()    delay_4tcy();delay_1tcy()
#define delay_10tcy()   delay_4tcy();delay_4tcy();delay_2tcy()

// Microsecond based timing macros (processor speed dependent)
#ifdef _FAST_CLOCK
#define delay_500ns()   delay_2tcy()
#define delay_1us()     delay_4tcy()
#else
#define delay_500ns()   delay_1tcy()
#define delay_1us()     delay_2tcy()
#endif // _FAST_CLOCK

#define delay_2us()     delay_1us();delay_1us()

// Function prototypes
extern void delay_10us();
//extern void delay_100us();
extern void delay_ms(unsigned char ms);
extern void delay_s(unsigned char sec);

#endif // _DELAYS_H

// ***** EOF DELAYS.H *****
```