1

includes.h

```
2: * includes.h - Master header file template for star12 projects.
3: *
         This version is for ETec454 Lab1 using the Metrowerks
4: *
         compiler.
5: *
6: * Todd Morton 01/05/05
7: * Modifided by Mark Moerdyk 2/14/13 - 2/22/13
8: *********************************
9: * General type definitions
11: typedef unsigned char INT8U;
12: typedef signed char
              INT8S;
13: typedef unsigned short INT16U;
14: typedef signed short
              INT16S;
15: typedef unsigned long INT32U;
16: typedef signed long
              INT32S;
17: typedef struct{
   INT8U hr;
18:
19:
   INT8U min;
20:
   INT8U sec;
21:
   }TIME;
23: #define ISR interrupt void
26: * General Defined Constants
28: #define FALSE 0
29: #define TRUE
30:
32: * General defined macros
34: #define FOREVER()
              while(1)
35: #define TRAP()
              while(1){}
36:
38: * MCU specific definitions
40: #include "9S12dp512.h"
                   /* CODE 9S12DP256 register defines
41: #define SWI()
              asm swi;
42: #define ENABLE INT() asm cli;
43: #define DISABLE_INT() asm sei;
44:
46: * Project Constant and Macro Definitions
48: #define DBUG PORT DIR DDRP
                    /* Initialize debug port
49: #define DBUG PORT PTP
50: #define PP7 0x80
51: #define PP6 0x40
52: #define PP5 0x20
53: #define PP4 0x10
54: #define PP3 0x08
55: #define DB OUTS 0xF8
57: * System Header Files
61: * Module Header Files or Declarations
63: #include <ucos ii.h>
```