

```
1: #ifndef TIMER_H
2: #define TIMER_H
3:
4: // File *****Timer.h*****
5: // Timer wait routine, 9S12DP512
6: // assumes PLL is active and E clock is 24 MHz
7: // TCNT will become 1.5MHz
8: // Jonathan W. Valvano 1/27/09
9:
10: // This example accompanies the books
11: //   "Embedded Microcomputer Systems: Real Time Interfacing",
12: //   Thomson Engineering, copyright (c) 2006,
13: //   "Introduction to Embedded Microcomputer Systems:
14: //   Motorola 6811 and 6812 Simulation", Thomson, copyright (c) 2002
15:
16: // Copyright 2007 by Jonathan W. Valvano, valvano@mail.utexas.edu
17: //   You may use, edit, run or distribute this file
18: //   as long as the above copyright notice remains
19:
20:
21:
22: //-----Timer_Init-----
23: // activate TCNT at 1.5 MHz
24: // inputs: none
25: // outputs: none
26: void Timer_Init(void);
27:
28:
29: //-----Timer_Wait-----
30: // fixed time delay
31: // inputs: time to wait in 667ns cycles
32: // outputs: none
33: void Timer_Wait(unsigned short delay);
34:
35: //-----Timer_Wait1ms-----
36: // fixed time delay
37: // inputs: time to wait in ms
38: // outputs: none
39: // 1500 cycles equals 1ms
40: void Timer_Wait1ms(unsigned short delay);
41:
42: //-----Timer_Wait10ms-----
43: // fixed time delay
44: // inputs: time to wait in 10ms
45: // outputs: none
46: // 15000 cycles equals 10ms
47: void Timer_Wait10ms(unsigned short delay);
48:
49: #endif
```