

```
1  '' *****
2  '' *   Timing                               *
3  '' *   (C) 2006 Parallax, Inc.             *
4  '' *****
5  ''
6  '' This object provides time delay and time synchronization functions.
7
8
9  CON
10
11  _10us = 1_000_000 /      10      ' Divisor for 10 us
12  _1ms  = 1_000_000 /    1_000     ' Divisor for 1 ms
13  _1s   = 1_000_000 / 1_000_000    ' Divisor for 1 s
14
15
16  VAR
17
18  long delay
19  long syncpoint
20  long clkcycles
21
22
23  PUB pause10us(period)
24
25  '' Pause execution for period (in units of 10 us)
26
27  clkcycles := ((clkfreq / _10us * period) - 4296) #> 381 ' Calculate 10 us time unit
28  waitcnt(clkcycles + cnt)                                ' Wait for designated time
29
30
31  PUB pause1ms(period)
32
33  '' Pause execution for period (in units of 1 ms).
34
35  clkcycles := ((clkfreq / _1ms * period) - 4296) #> 381 ' Calculate 1 ms time unit
36  waitcnt(clkcycles + cnt)                                ' Wait for designated time
37
38
39  PUB pause1s(period)
40
41  '' Pause execution for period (in units of 1 sec).
```