**Timer Module**

*Provides a basic 16-bit running counter*

**Timer\_Init:**

      Initiates a 1ms timer

      Turn timer system on

      Set prescale to get 3.0MHz frequency

      Set cap/comp 4 to output compare

      Schedule first event for channel 4 to occur every 1 ms

      Clear OC4 flag

      Enable OC4 interrupts

**Timer\_GetTime:**

      return the current time in ms

**Timer Interrupt:**

      increment curTime variable every time 1 ms occurs during OC interrupt