```
//Created by Dingo_aus, 7 January 2009
 1
 2
     //email: dingo_aus [at] internode <dot> on /dot/ net
 3
    // From http://www.avrfreaks.net/wiki/index.php/Documentation:Linux/GPIO#gpio_framework
 4
 5
     //Created in AVR32 Studio (version 2.0.2) running on Ubuntu 8.04
     // Modified by Mark A. Yoder, 21-July-2011
 6
 7
     // Modified by Mark A. Yoder 30-May-2013
 8
 9
     #include <string.h>
10
    #include <stdio.h>
11
     #include <stdlib.h>
12
     #include <unistd.h>
13
     #include <fcntl.h>
14
     #include "gpio-utils.h"
15
16
     int main(int argc, char** argv)
17
18
         //create a variable to store whether we are sending a '1' or a '0'
19
         char set_value[5];
20
         //Integer to keep track of whether we want on or off
21
         int toggle = 0;
22
         int onOffTime; // Time in micro sec to keep the signal on/off
23
         int qpio = 60;
24
         int gpio_fd;
25
26
         if (argc < 2) {
             printf("Usage: %s <on/off time in us>\n\n", argv[0]);
27
28
             printf("Toggle gpio 60 at the period given\n");
29
             exit(-1);
30
         }
31
32
         onOffTime = atoi(argv[1]);
33
         printf("***********************
34
35
                Welcome to PIN Blink program *\n"
36
             "* ....blinking gpio 60
37
                 ....period of %d us.....*\n"
                                  ***********\n", 2*onOffTime);
38
39
40
         //Using sysfs we need to write the gpio number to /sys/class/gpio/export
41
         //This will create the folder /sys/class/gpio/gpio60
42
         gpio_export(gpio);
43
44
         printf("...export file accessed, new pin now accessible\n");
45
         //SET DIRECTION
46
47
         gpio_set_dir(gpio, "out");
48
         printf("...direction set to output\n");
49
50
         gpio_fd = gpio_fd_open(gpio, O_RDONLY);
51
52
         //Run an infinite loop - will require Ctrl-C to exit this program
53
         while(1)
54
         {
```

```
55
             toggle = !toggle;
56
             gpio_set_value(gpio, toggle);
             printf("...value set to %d...\n", toggle);
57
58
59
             //Pause for a while
60
             usleep(onOffTime);
61
         }
62
         gpio_fd_close(gpio_fd);
63
         return 0;
     }
64
65
66
```