

```
1  #include <lpc214x.h>
2  #define LED_OFF (IO0SET = 1U << 31)
3  #define LED_ON (IO0CLR = 1U << 31)
4
5  #define PLOCK 0x00000400 // Bit mask for checking PLL lock status
6
7  void systeminit(void);
8  void delay_ms(unsigned int t);
9  void uartinit(void);
10
11
12
13  int main(){}
14
15
16
17  void delay_ms(unsigned int t){
18      unsigned int i,j;
19      for(i=0; i<t; i++)
20          for(j=0; j<10000; j++);
21  }
22
23
24  void systeminit(void) {
25      PLL0CON = 0x01; // Enable the PLL (PLLE = 1)
26      PLL0CFG = 0x24; // Set the multiplier and divider values (M=5, P=2)
27      PLL0FEED = 0xAA; // Sequence to update PLL registers
28      PLL0FEED = 0x55;
29
30      while (!(PLLOSTAT & PLOCK)); // Wait for the PLL to achieve lock
31
32      PLL0CON = 0x03; // Connect the PLL (PLLE = 1 and PLLC = 1)
33      PLL0FEED = 0xAA; // Sequence to update PLL registers after connecting
34      PLL0FEED = 0x55;
35
36      VPBDIV = 0x01; // Set PCLK = CCLK (PCLK = 60 MHz if CCLK is 60 MHz)
37  }
38
39  void uartinit(void){
40      PINSEL0 |= 0x05;
41
42      U0LCR = 0x83;
43      U0DLM = 0;
44      U0DLL = 32; //BAUD RATE = 115200
45
46      U0LCR = 0x03;
47      U0FCR = 0x07;
48  }
49
```