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#include "mraa.h"
#include <stdio.h>
#include <unistd.h>

/*
 * Test Edison Adaptor by blinking LED's
 */

#define FALSE 0
#define TRUE 1
#define LOW 0
#define HIGH 1
#define ESC 0x1b
#define CR 0x0d
#define LF 0x0a
#define BS 0x08
#define BELL 0x07
#define SP 0x20
#define DEL 0x7f
#define BUS_CYCLES_MAX 100 // Max number of Bus cycles captured

extern void FlashLED(int);
mraa_gpio_context pin[56];

int main()
{
    int i;
    for (i=0; i < 56; i++) // INITILIZE ALL EDISON PINS FOR OUTPUT
    {
        switch(i)
        {
            case 1: //Skip these pins (Note these are all MRAA library pin numbers)
```

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case 2:
case 3:
case 5:
case 12:
case 16:
case 17:
case 18:
case 22:
case 27:
case 28:
case 29:
case 30:
case 34:
case 39: // GP77, P16, (Unused, seems inactive)
case 42:
case 43:
case 44: // GP134, P15, (Unused, seems inactive)
    break;
case 40: // GP82 Seems to only work as an input)
case 20: // GP12_PWM0 Seems to only work as an input)
    pin[i] = mraa_gpio_init(i); // Set as data inputs
    mraa_gpio_dir(pin[i], MRAA_GPIO_IN);
    mraa_gpio_use_mmaped(pin[i],1); // For fast I/O
    break;
default:
    pin[i] = mraa_gpio_init(i); // Default all outputs, initially HIGH
    mraa_gpio_mode(pin[i],MRAA_GPIO_STRONG);
    mraa_gpio_dir(pin[i], MRAA_GPIO_OUT_HIGH);
    mraa_gpio_use_mmaped(pin[i],1); // For fast I/O
    if (pin[i] == NULL)
    {
        fprintf(stderr, "MRAA couldn't initialize GPIO %i\n",i);
        break;
    }

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};  
}  
}  
  
for(;;)  
{  
FlashLED(45);      /* GP45 */  
FlashLED(46);      /* GP46 */  
FlashLED(47);      /* GP49 */  
FlashLED(48);      /* GP15 */  
FlashLED(49);      /* GP84 */  
FlashLED(50);      /* GP42 */  
FlashLED(51);      /* GP41 */  
FlashLED(52);      /* GP79 */  
  
FlashLED(53);      /* GP79 */  
FlashLED(54);      /* GP80 */  
FlashLED(31);      /* GP44 */  
FlashLED(32);      /* GP46 */  
FlashLED(33);      /* GP48 */  
FlashLED(35);      /* GP131 */  
FlashLED(36);      /* GP14 */  
FlashLED(37);      /* GP40 */  
  
FlashLED(0);       /* GP182 */  
FlashLED(26);      /* GP130 */  
FlashLED(6);       /* GP27 */  
FlashLED(7);       /* GP20 */  
FlashLED(8);       /* GP28 */  
FlashLED(9);       /* GP111 */  
FlashLED(10);      /* GP109 */  
FlashLED(11);      /* GP115 */
```

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FlashLED(41);      /* GP83 */
FlashLED(13);     /* GP128 */
FlashLED(14);     /* GP13 */
FlashLED(15);     /* GP165 */
FlashLED(19);     /* GP19 */
FlashLED(21);     /* GP183 */
FlashLED(23);     /* GP110 */
FlashLED(24);     /* GP114 */

FlashLED(25);     /* GP129 */
FlashLED(4);      /* GP135 */
FlashLED(38);     /* GP43 */
FlashLED(55);     /* GP81 */

//      if(mraa_gpio_read(pin[44]) == HIGH)                // Wait until Bus Master grants S100 access.
//          mraa_gpio_write(pin[46], HIGH);
//      else  mraa_gpio_write(pin[46],LOW);
//          }

return MRAA_SUCCESS;
}

void FlashLED(int i)                                // For edge triggered single step request
{
    fprintf(stderr, "Pin number = %i\n",i);
    mraa_gpio_write(pin[i], 0);
    usleep(800000);
    mraa_gpio_write(pin[i], 1);
}

```