

Installations:

1. `sudo apt-get install git`
2. git clone <https://github.com/derekmolloy/exploringBB.git>
3. `cd exploringBB/extras/kernel/gpio_test`

Replace `gpio_test.c` with the new '`gpio_test.c`' sent.

4. `make`
5. `sudo insmod gpio_test.ko`

The interrupt program will be installed in the kernel.

Program:

```
48     gpio_free(gpioButton);          // Free the Button GPIO
49     printk(KERN_INFO "GPIO_TEST: Goodbye from the LKM!\n");
50 }
51
52 static irq_handler_t ebbgpio_irq_handler(unsigned int irq, void *dev_id, struct pt_regs *regs){
53     printk(KERN_INFO "GPIO_TEST: Interrupt! (button state is %d)\n", gpio_get_value(gpioButton));
54     numberPresses++;                // Global counter, will be outputted when the module is unloaded
55     return (irq_handler_t) IRQ_HANDLED; // Announce that the IRQ has been handled correctly
56 }
57
58 module_init(ebbgpio_init);
59 module_exit(ebbgpio_exit);
```

C source file | length: 3090 | lines: 59 | Ln: 56 | Col: 2 | Sel: 0 | 0

The things inside the function can be edited and used as per what the interrupt has to do.

Only this function needs to be edited and built.