## **Keyboard Interrupt - Nicolas MICHEL**

This is the report concerning the implementation of Keyboard Interrupt kernel module

## <sup>™</sup> Makefile Code

```
obj-m := KeyboardInterrupt.o
KDIR := /lib/modules/4.10.0-40-generic/build
PWD := $(shell pwd)

all: KeyboardInterrupt.c
    make -C $(KDIR) SUBDIRS=$(PWD) modules

clean:
    make -C $(KDIR) SUBDIRS=$(PWD) clean
```

## **KeyboardInterrupt.c Code**

```
#include <linux/module.h>
  #include <linux/kernel.h>
  #include <linux/init.h>
  #include <linux/interrupt.h>
  #define PRINT_PREF "[KEYBOARDINTERRUPT]: "
  static irqreturn_t keyboard_interrupt(int irq,void *data){
      unsigned char code = inb(0x60);
      printk(PRINT_PREF "%c",code);
          return IRQ_HANDLED;
  }
  static int __init my_mod_init(void)
    if(request_irq(1, keyboard_interrupt, IRQF_SHARED, "keyboard_interrupt", (void *)(keyboard_interrupt))){
      printk(PRINT_PREF " Entering module.\u00e4n");
      return 0;
   }
  }
  static void __exit my_mod_exit(void)
      free_irq(1,(void *)(keyboard_interrupt));
      printk(PRINT_PREF "Exiting module.\u00e4n");
  module_init(my_mod_init);
  module_exit(my_mod_exit);
  MODULE_LICENSE("GPL");
The log after pressing some keys
  Nov 29 00:14:45 nicolas-Lemur kernel: [18772.444672] [KEYBOARDINTERRUPT]: Entering module.Â¥n
 Nov 29 00:14:50 nicolas-Lemur kernel: [18772.574607] [KEYBOARDINTERRUPT]: [
 Nov 29 00:14:50 nicolas-Lemur kernel: [18777.447862] [KEYBOARDINTERRUPT]:
 Nov 29 00:14:50 nicolas-Lemur kernel: [18777.522954] [KEYBOARDINTERRUPT]: '
 Nov 29 00:14:51 nicolas-Lemur kernel: [18759.038157] [KEYBOARDINTERRUPT]: Exiting module.Â¥n
```