Report 4 Nicola Sabino

mat:253839

System and device programming
Prof. Pietro Laface

cof. Pietro Laface Date: 04/04/2019

Laboratory 4.2

Change the file main.c to verify which is the first address that produces a page fault.

Hint: Increment ptr, starting from 0, by the dimension of a page (take care of the pointer arithmetic).

```
#include "monitor.h"
#include "descriptor_tables.h"
#include "timer.h"
#include "paging.h"
int main(struct multiboot *mboot_ptr)
    // Initialise all the ISRs and segmentation
    init_descriptor_tables();
    // Initialise the screen (by clearing it)
    monitor_clear();
    initialise_paging();
    monitor_write("Hello, paging world!\n");
    //u32int *ptr = (u32int*)0xA0000000;
    //u32int do_page_fault = *ptr;
        u32int *ptr = (u32int*) 0x00000000;
        u32int page = 0;
        while (1)
                monitor_write("Normal access at ");
                monitor_write_hex(ptr);
                monitor_write(" at page ");
                monitor_write_dec(page);
                monitor_write("\0");
                u32int point_something = *ptr;
ptr += 0x00007D00;
                page += 1;
        }
    return 0;
}
```

