DEVICE DRIVERS – LAB EXERCISE 2

Submitted By:

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CED18I028

OBJECTIVE:

Write a C program to print your machine's "System Configuration". You have all liberty to decide which to add/delete in output.

Linux Distribution Used:

MX Linux 19.1 (Running on Virtual machine)

CODE:

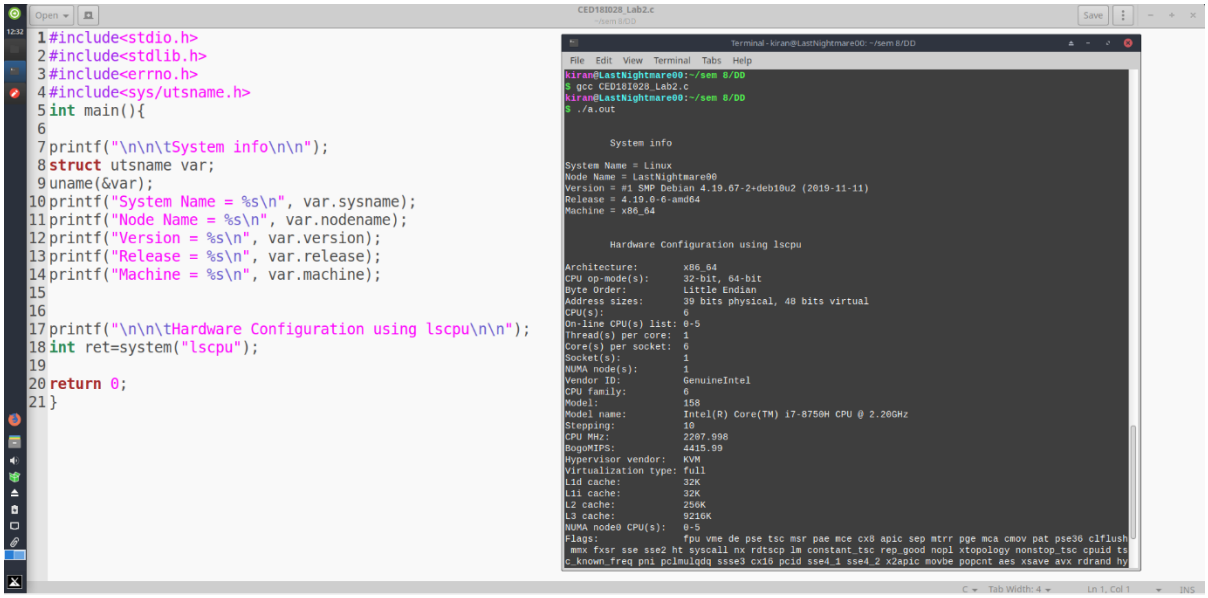
```
#include<stdio.h>
#include<stdlib.h>
#include<errno.h>
#include<sys/utsname.h>
int main(){

printf("\n\n\tSystem info\n\n");
struct utsname var;
uname(&var);
printf("System Name = %s\n", var.sysname);
printf("Node Name = %s\n", var.nodename);
printf("Version = %s\n", var.version);
printf("Release = %s\n", var.release);
printf("Machine = %s\n", var.machine);


printf("\n\n\tHardware Configuration using lscpu\n\n");
int ret=system("lscpu");

return 0;
}
```

OUTPUT SCREENSHOTS:



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}
```

```
kiran@LastNightmare00:~/sem 8/DD
$ gcc CED18I028_Lab2.c
kiran@LastNightmare00:~/sem 8/DD
$ ./a.out


        System info

System Name = Linux
Node Name = LastNightmare00
Version = #1 SMP Debian 4.19.67-2+deb10u2 (2019-11-11)
Release = 4.19.0-6-amd64
Machine = x86_64


        Hardware Configuration using lscpu

Architecture:        x86_64
CPU op-mode(s):      32-bit, 64-bit
Byte Order:          Little Endian
Address sizes:       39 bits physical, 48 bits virtual
CPU(s):              6
On-line CPU(s) list: 0-5
Thread(s) per core:  1
Core(s) per socket:  6
Socket(s):           1
NUMA node(s):        1
Vendor ID:           GenuineIntel
CPU family:          6
Model:               158
Model name:          Intel(R) Core(TM) i7-8750H CPU @ 2.20GHz
Stepping:            10
CPU MHz:             2207.998
BogoMIPS:            4415.99
Hypervisor vendor:   KVM
Virtualization type: full
L1d cache:           32K
L1i cache:           32K
L2 cache:            256K
L3 cache:            9216K
NUMA node0 CPU(s):   0-5
Flags:               fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht
```