

# Device Drivers

Github Link : <https://github.com/prateekagrawaliit/Device-Drivers>

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## Lab Exercise 2:

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

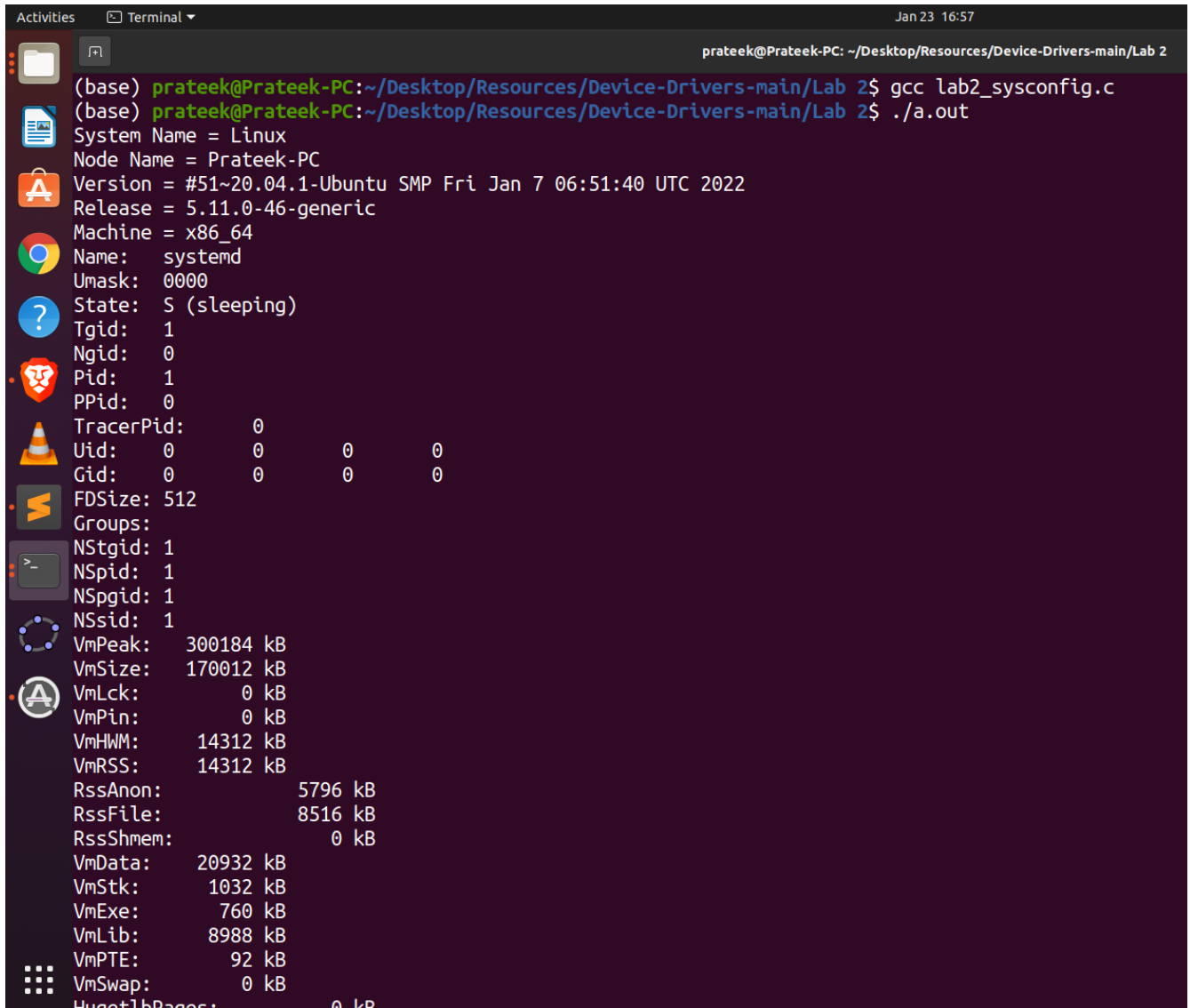
## Code

```
/*
 * @Author: prateek
 * @Date: 2022-01-23 16:56:53
 * @Last Modified by: prateek
 * @Last Modified time: 2022-01-23 16:57:00
 */
#include<stdio.h>
#include<stdlib.h>
#include<errno.h>
#include<sys/utsname.h>
int main()
{
    struct utsname buf1;
    errno = 0;
    if (uname(&buf1) != 0)
    {
        perror("uname doesn't return 0, so there is an error");
        exit(EXIT_FAILURE);
    }
}
```

```

}
printf("System Name = %s\n", buf1.sysname);
printf("Node Name = %s\n", buf1.nodename);
printf("Version = %s\n", buf1.version);
printf("Release = %s\n", buf1.release);
printf("Machine = %s\n", buf1.machine);
int r = system("cat /proc/1/status");
}

```



A terminal window titled "prateek@Prateek-PC: ~/Desktop/Resources/Device-Drivers-main/Lab 2" showing the execution of a C program. The program prints system information and the contents of /proc/1/status.

```

(base) prateek@Prateek-PC:~/Desktop/Resources/Device-Drivers-main/Lab 2$ gcc lab2_sysconfig.c
(base) prateek@Prateek-PC:~/Desktop/Resources/Device-Drivers-main/Lab 2$ ./a.out
System Name = Linux
Node Name = Prateek-PC
Version = #51~20.04.1-Ubuntu SMP Fri Jan 7 06:51:40 UTC 2022
Release = 5.11.0-46-generic
Machine = x86_64
Name: systemd
Umask: 0000
State: S (sleeping)
Tgid: 1
Ngid: 0
Pid: 1
PPid: 0
TracerPid: 0
Uid: 0 0 0 0
Gid: 0 0 0 0
FDSize: 512
Groups:
NSTgid: 1
NSpid: 1
NSpgid: 1
NSSid: 1
VmPeak: 300184 kB
VmSize: 170012 kB
VmLck: 0 kB
VmPin: 0 kB
VmHWM: 14312 kB
VmRSS: 14312 kB
RssAnon: 5796 kB
RssFile: 8516 kB
RssShmem: 0 kB
VmData: 20932 kB
VmStk: 1032 kB
VmExe: 760 kB
VmLib: 8988 kB
VmPTE: 92 kB
VmSwap: 0 kB
HugetlbPages: 0 kB

```