

# **OPERATING SYSTEMS LAB**

## **LAB – 1**

**2017 – EE – 82**

**2017 – EE – 85**

**2017 – EE – 94**

1

```
salman@salman-VirtualBox:~$ more /proc/cpuinfo
```

```
salman@salman-VirtualBox:~$ lscpu
```

```
cpu cores      : 1
```

```
CPU(s): 1
```

```
processor      : 0
```

```
CPU MHz: 2904.002
```

```
salman@salman-VirtualBox:~$ free -m
```

	total	used	free	shared	buff/cache	available
Mem:	2992	801	1026	14	1165	2009
Swap:	1162	0	1162			

```
salman@salman-VirtualBox:~$ vmstat -f
12270 forks
```

```
salman@salman-VirtualBox:~$ more /proc/stat
```

```
ctxt 2217295
```

2

```
salman@salman-VirtualBox:~$ cd Desktop
salman@salman-VirtualBox:~/Desktop$ cd intro-code
salman@salman-VirtualBox:~/Desktop/intro-code$ gcc cpu.c -o cpu
salman@salman-VirtualBox:~/Desktop/intro-code$ ./cpu
```

```
salman@salman-VirtualBox:~$ ps -r
  PID TTY          STAT       TIME COMMAND
12292 pts/0    R+        0:36   ./cpu
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
12292	salman	20	0	2356	588	524	R	97.7	0.0	6:04.13	cpu

3

```
salman@salman-VirtualBox:~/Desktop/intro-code$ gcc cpu-print.c -o cpu-print
salman@salman-VirtualBox:~/Desktop/intro-code$ ./cpu-print
```

```
salman@salman-VirtualBox:~$ ps -e
  PID TTY          TIME CMD
12490 pts/0    00:00:02 cpu-print
```

```
salman@salman-VirtualBox:~$ ps -r
  PID TTY          STAT       TIME COMMAND
12490 pts/0    R+        0:14   ./cpu-print
```

```
salman@salman-VirtualBox:~$ pstree -p -s 12490
systemd(1)---systemd(10436)---gnome-terminal-(12441)---bash(12448)---cpu-print(+
```

```
salman@salman-VirtualBox:~$ ./cpu-print > /tmp/tmp.txt &
[1] 12514
```

4

```
salman@salman-VirtualBox:~/Desktop/intro-code$ gcc memory1.c -o memory1
salman@salman-VirtualBox:~/Desktop/intro-code$ ./memory1
```

Program : 'memory\_1'

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PID : 12571

Size of int : 4

Press Enter Key to exit.

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