proc

Description:

Proc filesystem is a pseudo file system which provides the information of cpu,memory that are stored in kernel data structures.Some of important files and their outputs are shown below.

Command

```
cat /proc/cpuinfo
```

Description

/proc/cpuinfo provides the information of processor like cpu family,cache size,model name.If system is multiple processor it gives information of each processor.

Output

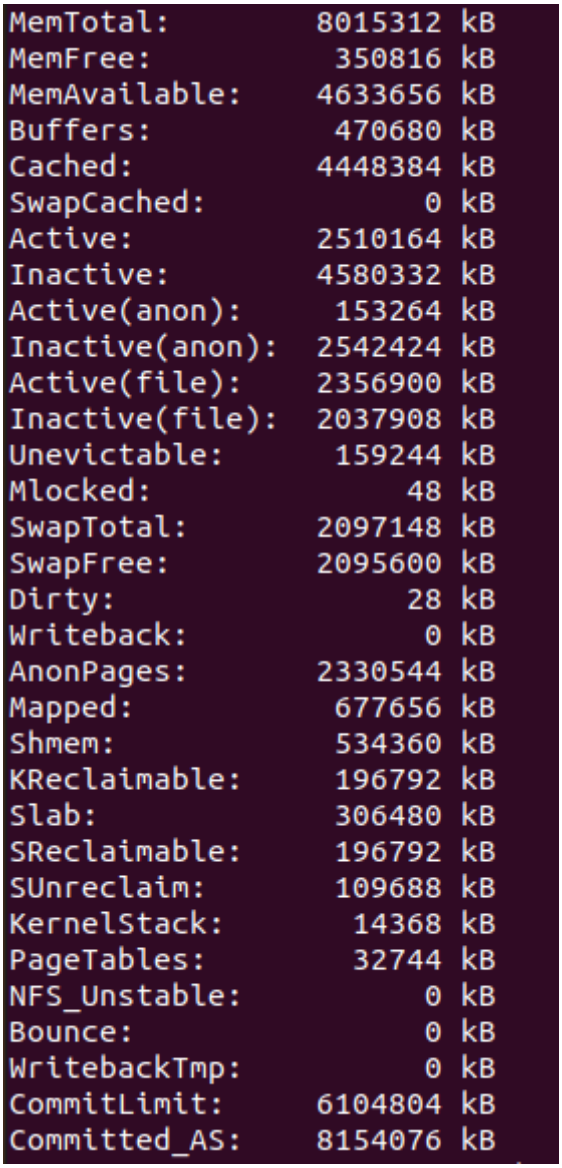
Command

```
cat proc/meminfo
```

Description

/proc/meminfo provides the information on memory like total memory , how much memory is available for applications to load,how much memory is not registered for allocation by kernel,etc.

Output



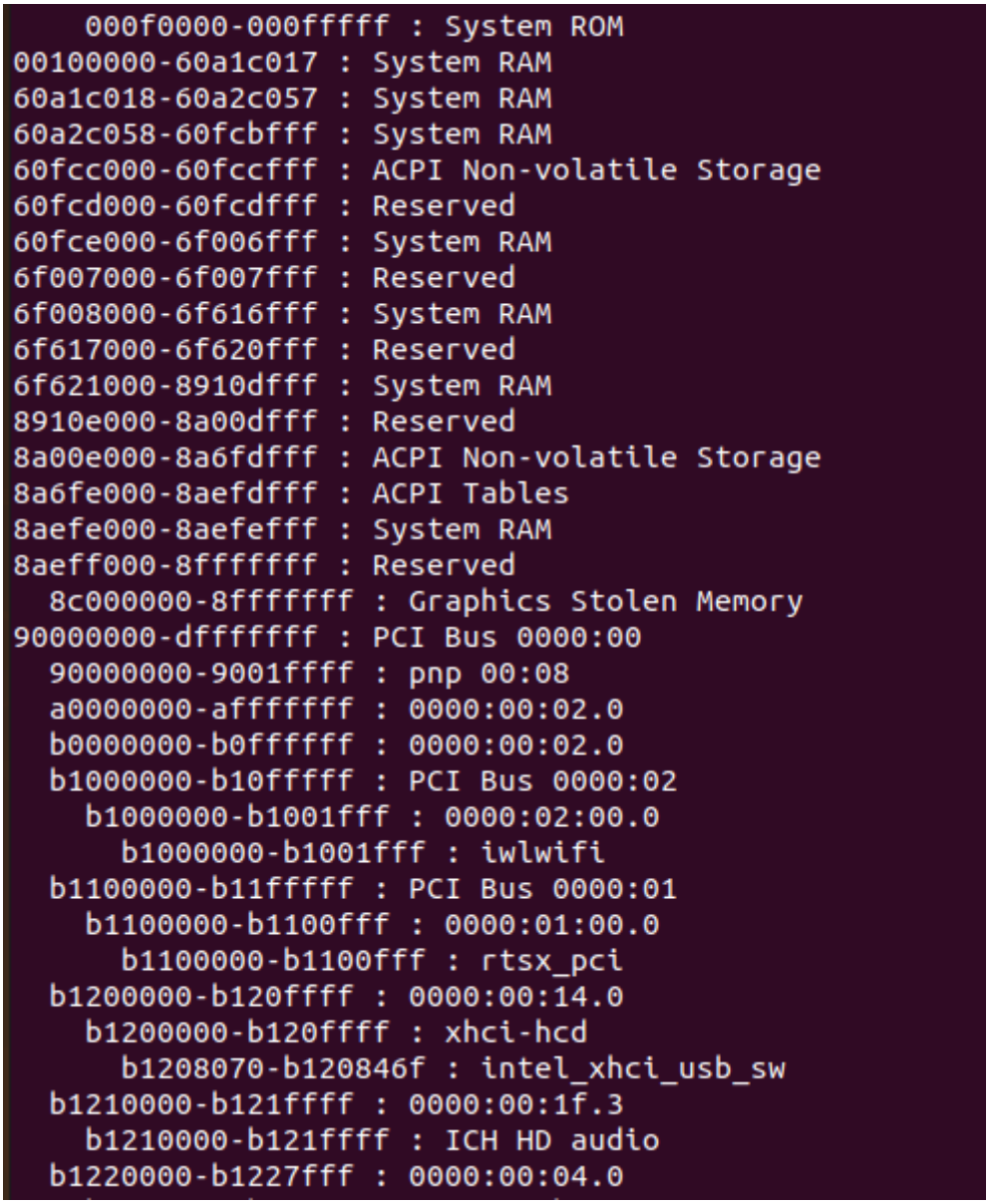
command

```
cat /proc/iomem
```

Description

This provides the address mapping of memories like RAM,ROM in the system. Total address range is between 0x00000000 to 0xffffffff

Output



Command

```
cat /proc/ioports
```

Description

This provides the address mapping of these peripherals,as you can see i am addresses starting from 0x0000 to 0xffff getting in below ouput

Output

```
0000-0cf7 : PCI Bus 0000:00
  0000-001f : dma1
  0020-0021 : pic1
  0040-0043 : timer0
  0050-0053 : timer1
  0060-0060 : keyboard
  0062-0062 : PNP0C09:01
    0062-0062 : EC data
  0064-0064 : keyboard
  0066-0066 : PNP0C09:01
    0066-0066 : EC cmd
  0068-006f : PNP0C09:01
  0070-0077 : rtc0
  0080-008f : dma page reg
  00a0-00a1 : pic2
  00c0-00df : dma2
  00f0-00ff : fpu
  0400-041f : iTCO_wdt
  0680-069f : pnp 00:02
0cf8-0cff : PCI conf1
0d00-ffff : PCI Bus 0000:00
  164e-164f : pnp 00:02
  1800-18fe : pnp 00:02
    1800-1803 : ACPI PM1a_EVT_BLK
    1804-1805 : ACPI PM1a_CNT_BLK
    1808-180b : ACPI PM_TMR
    1810-1815 : ACPI CPU throttle
    1850-1850 : ACPI PM2_CNT_BLK
    1854-1857 : pnp 00:04
    1880-189f : ACPI GPE0_BLK
  2000-20fe : pnp 00:01
  3000-303f : 0000:00:02.0
  3040-305f : 0000:00:1f.4
    3040-305f : i801_smbus
  3060-307f : 0000:00:17.0
    3060-307f : ahci
  3080-3087 : 0000:00:17.0
```