OBSERVE AND UNDERSTAND THE PROCESS MAP OF THE PREVIOUS TWO LAB PROGRAMS (EXPERIMENT 6 AND EXPERIMENT 7) USING PMAP COMMAND.

## IO BOUND

```
ayushmaan@ASJ:~$ pmap -x 4144
4144:
        ./a.out
Address
                  Kbytes
                              RSS
                                    Dirty Mode Mapping
00005575102a9000
                                        0 r---- a.out
                       4
                                4
00005575102aa000
                        4
                                        0 r-x-- a.out
00005575102ab000
                        4
                                4
                                        0 r---- a.out
                                        4 r---- a.out
                        4
                                4
00005575102ac000
00005575102ad000
                       4
                                4
                                        4 rw--- a.out
                                                   [ anon
00005575109ee000
                      132
                                8
                                        8 rw---
00007f1355ae0000
                                        8 rw---
                      12
                                8
                                                   [ anon
00007f1355ae3000
                      160
                              160
                                        0 r---- libc.so.6
                                        0 r-x-- libc.so.6
00007f1355b0b000
                              972
                    1620
00007f1355ca0000
                                        0 r---- libc.so.6
                      352
                              188
00007f1355cf8000
                      16
                               16
                                       16 r---- libc.so.6
00007f1355cfc000
                               8
                                        8 rw--- libc.so.6
                       8
00007f1355cfe000
                       52
                               20
                                       20 rw---
                                                   [ anon ]
00007f1355d1a000
                       8
                               4
                                        4 rw---
                                                   [ anon ]
00007f1355d1c000
                       8
                                8
                                        0 r---- ld-linux-x86-64.so.2
00007f1355d1e000
                      168
                              168
                                        0 r-x-- ld-linux-x86-64.so.2
00007f1355d48000
                       44
                               40
                                        0 r---- ld-linux-x86-64.so.2
                                        8 r---- ld-linux-x86-64.so.2
00007f1355d54000
                       8
                                8
                                        8 rw--- ld-linux-x86-64.so.2
00007f1355d56000
                                8
                       8
00007ffe813ba000
                      132
                               12
                                       12 rw---
                                                   [ stack ]
00007ffe813f2000
                      16
                                0
                                        0 г----
                                                     anon ]
00007ffe813f6000
                        8
                                4
                                        0 r-x--
                                                     anon
fffffffff600000
                       4
                                0
                                        0 --x--
                                                     anon ]
total kB
                    2776
                             1652
                                      100
```

## CPU BOUND

```
yushmaan@ASJ:~$ pmap -x 4107
4107:
        ./a.out
                  Kbytes
Address
                             RSS
                                    Dirty Mode Mapping
                                        0 r---- a.out
000056019287e000
                               4
                       4
000056019287f000
                       4
                               4
                                        0 r-x-- a.out
0000560192880000
                       4
                               4
                                       0 r---- a.out
0000560192881000
                       4
                               4
                                       4 r---- a.out
0000560192882000
                               4
                                        4 rw--- a.out
                       4
00005601933b6000
                     132
                               4
                                       4 rw---
                                                    anon ]
                                       8 rw---
00007f3ee0045000
                      12
                               8
                                                    anon
                                       0 r---- libc.so.6
00007f3ee0048000
                     160
                             160
00007f3ee0070000
                                       0 г-х-- libc.so.6
                    1620
                             896
                                       0 r---- libc.so.6
00007f3ee0205000
                             128
                     352
                                       16 r---- libc.so.6
00007f3ee025d000
                      16
                              16
                                       8 rw--- libc.so.6
00007f3ee0261000
                      8
                               8
00007f3ee0263000
                      52
                              20
                                       20 rw---
                                                    anon ]
00007f3ee027f000
                       8
                               4
                                       4 rw---
                                                  [ anon ]
                                       0 r---- ld-linux-x86-64.so.2
00007f3ee0281000
                       8
                               8
00007f3ee0283000
                                       0 r-x-- ld-linux-x86-64.so.2
                     168
                             168
00007f3ee02ad000
                      44
                              40
                                       0 r---- ld-linux-x86-64.so.2
00007f3ee02b9000
                       8
                               8
                                       8 r---- ld-linux-x86-64.so.2
                                       8 rw--- ld-linux-x86-64.so.2
00007f3ee02bb000
                       8
                               8
00007ffc8ccdc000
                     132
                              16
                                       16 rw---
                                                  Г
                                                    stack 1
                                                    anon ]
00007ffc8cde6000
                      16
                               0
                                       0 Γ----
00007ffc8cdea000
                       8
                                        0 r-x--
                                                    anon
                                                    anon ]
fffffffff600000
                       4
                               0
                                        0 --x--
total kB
                    2776
                            1516
                                     100
```

## C PROGRAM

```
ayushmaan@ASJ:~$ pmap -x 4300
4300: ./a.out 1000 20
                                     Dirty Mode Mapping
0 r---- a.out
Address
                               RSS
                   Kbytes
00005582a8cd3000
                       4
                                          0 r-x-- a.out
00005582a8cd4000
                        4
                                 4
                                          0 r---- a.out
00005582a8cd5000
                        4
                                 4
00005582a8cd6000
                                          4 r---- a.out
00005582a8cd7000
                        4
                                 4
                                          4 rw--- a.out
                                          4 rw--- [ anon ]
12 rw--- [ anon ]
00005582aa35f000
                      132
00007f930837b000 1024016 1024012 1024012 rw---
00007f9346b7f000
                      160
                               160 0 Γ---- libc.so.6
                                         0 r-x-- libc.so.6
0 r---- libc.so.6
16 r---- libc.so.6
                               988
00007f9346ba7000
                     1620
00007f9346d3c000
                      352
                               124
00007f9346d94000
                       16
                                16
                                         8 rw--- libc.so.6
00007f9346d98000
                        8
                                8
                                                   [ anon ]
[ anon ]
                                         20 rw---
00007f9346d9a000
                       52
                                20
00007f9346db6000
                        8
                                         4 rw---
                                4
                                         0 r---- ld-linux-x86-64.so.2
00007f9346db8000
                        8
                               8
00007f9346dba000
                                         0 r-x-- ld-linux-x86-64.so.2
                      168
                               168
00007f9346de4000
                       44
                               40
                                        0 r---- ld-linux-x86-64.so.2
                        8
                                        8 r---- ld-linux-x86-64.so.2
00007f9346df0000
                               8
                                         8 rw--- ld-linux-x86-64.so.2
00007f9346df2000
                       8
00007ffddd480000
                      132
                                16
                                         16 rw---
                                                    [ stack ]
                                                       anon ]
                                         0 г----
                                0
00007ffddd4ec000
                       16
00007ffddd4f0000
                        8
                                 4
                                          0 Γ-X--
                                                       anon
fffffffff600000
                        4
                                 0
                                          0 --x--
                                                     [ anon ]
total kB
                  1026780 1025608 1024104
```