CSE 422- Studio 5

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2.

/\*\*\*\*\*\*

\* Leiquan Pan

\* do\_nothing.c

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#include<stdio.h>

int main()

{

return 0;

}

3.

mmap2(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x76fbe000

map file -1 into memory. The start adress is at which to create the mapping.

The length is 8192. Return the adress of the map

lseek(3, 17960, SEEK\_SET)

reposition file 3 read/write offset

4.

write(1, "The Road goes ever on and on\n", 29The Road goes ever on and on

) = 29

5.

42,54c42,54

./sing 100 use brk() system call to manage data segment size

./sing 300 use more mmap2() sysytem call to map more files to into memory

6.

42,51c42,59

malloc 100 use brk() system call to manage data segment size

malloc 1000000 use more mmap2() sysytem call to map more files to into memory

7.

almost 8-10 seconds

8.

CPU: 0

dropped events: 0

read events: 10

CPU: 1

dropped events: 0

read events: 32

CPU: 2

dropped events: 0

read events: 18

CPU: 3

dropped events: 0

read events: 19

9.

PID: 21000 Task:dense\_mm

PID: 19 Task:migration/3

10

PID: 19620 Task:kworker/0:2

11.

sched\_switch between processors

frequency of sched\_switch events in processor is 3>2>1>0

12.

There is a idle happen when near the beginning of the trace time

At this spot, only one of the four parallel\_dense\_mm processes is

actived, and this process is preempted by SCTP timer