```
int create(const char* path_name, int permissions);

char* path_name = "/home/yogeshwar/src/hello.c;

int fd = create(path_name, S_IRUSR | S_IWUSR | S_IRGRP | S_IROTH);
if(fd == -1){
   // error
}

#--------
app2.c
which wants to open /home/yogeshwar/src/hello.c

int fd = open(path_name, O_RDONLY);
if(fd == -1){
   // open error
}

#-----------------------------------

int fd;
const char* path_name = "/home/yogeshwar/src/hello.c";

fd = open(path_name, O_RDONLY);
if(fd == -1){    /* hello.c is not present*/
   fd = creat(path_name, S_IRUSR | S_IWUSR | S_IRGRP | S_IROTH);
   if(fd == -1){
      if(errno == EEXISTS){
         // SURPRISE!!!
      }
   }
}

PROCESS 1                  PROCESS 2
open() call
open() failed
conclusion:
base name does not
exist in dir name
PREEMPT
                           create hello.c in /home/yogeshwar/src
                           some other things
                           PREEMPT
```

SCHEDULE

creat()

in order to create hello.c in

/home/yogeshwar/src

creat() will fail with EEXISTS

PROGRAMMER PROPOSES -> PREEMPTIVE MULTITASKING DISPOSES.

#----------

try to write data at the end of the file.

```
fd = open(path_name, O_WRONLY);
if(fd == -1){
   //error
}
```

```
lseek(int fd, int whence, off_t bytes);
lseek(fd, SEEK_SET/SEEK_CUR/SEEK_END, positive/negative);
```

```
lseek(fd, SEEK_END, 0)
write(fd, buffer, BUFFER_SIZE);
```

PROCESS 1

lseek(fd, SEEK_END, 0) -> File table

-> next read write offset -> 22K

PREEMPT

PROCESS 2

abc.txt

lseek(fd, SEEK_END, 0)

write(fd, buffer, 4096)

PREEMPT

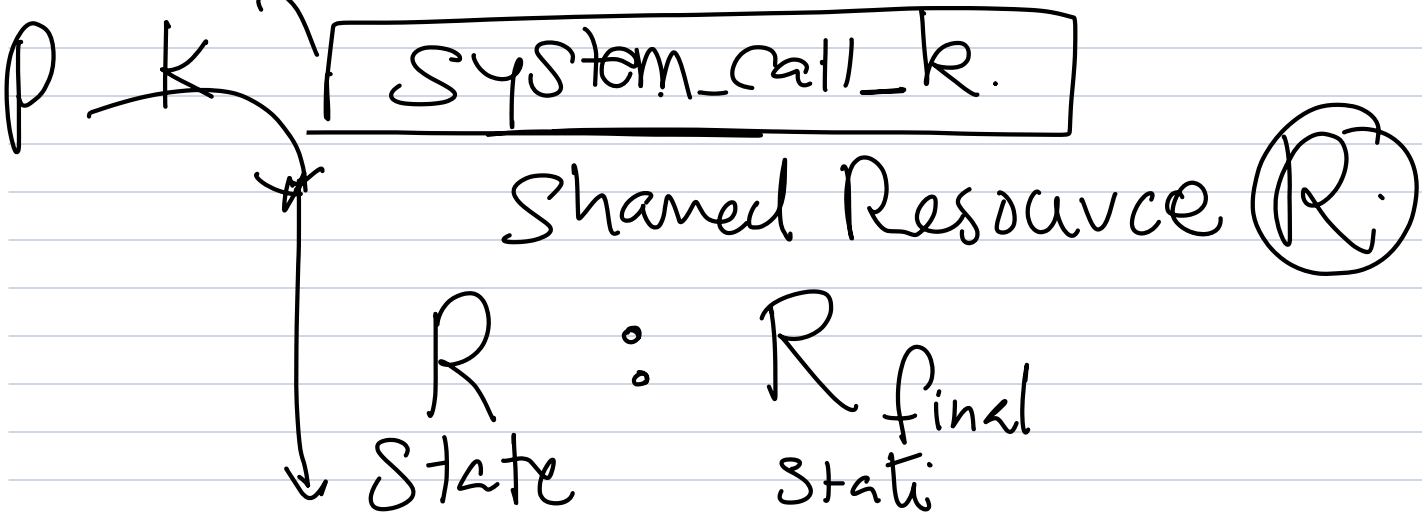
(26K)

write()

#----------

Scheduling Atomicity

- Behavioural Atomicity.


P
K
system_call_K.
Shared Resource
R
R : R final
State
Stati