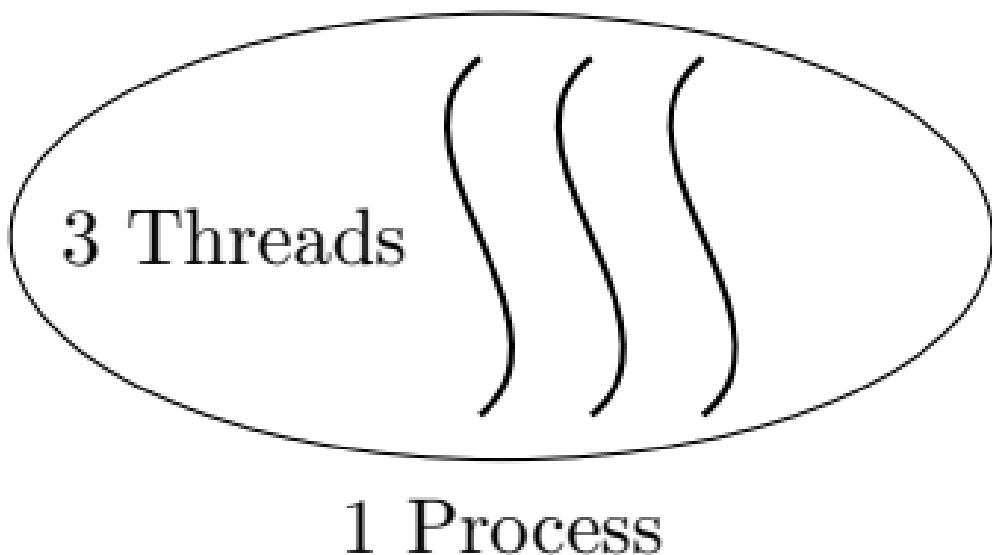
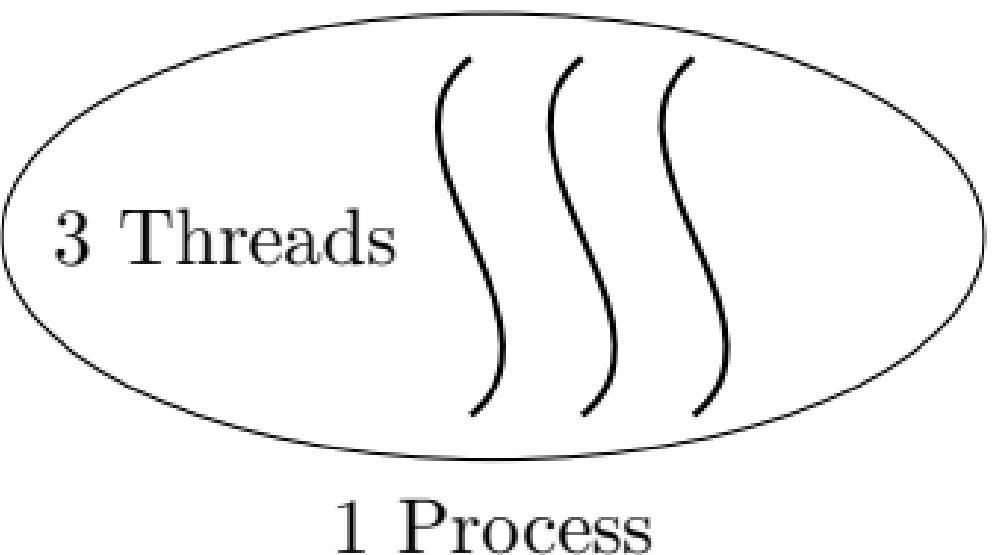
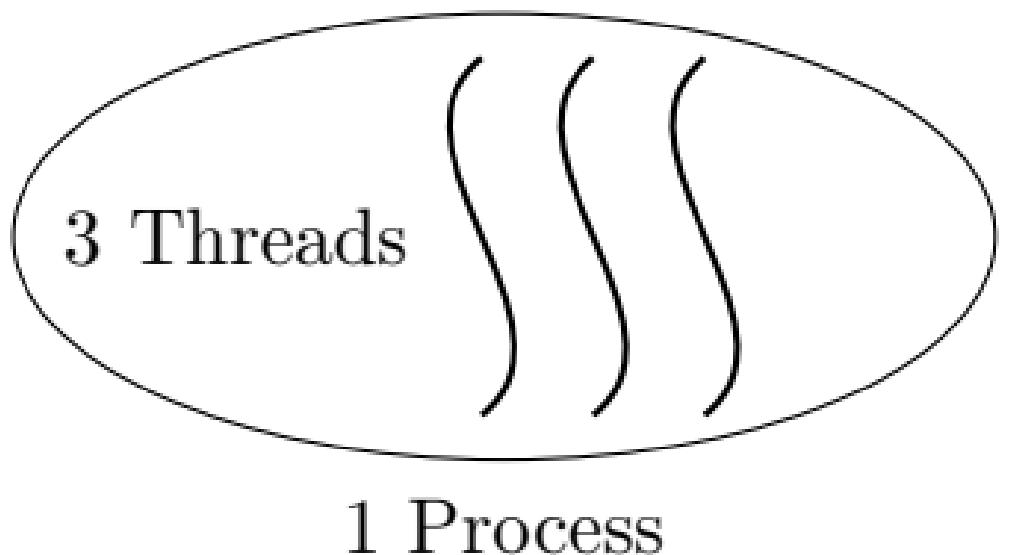
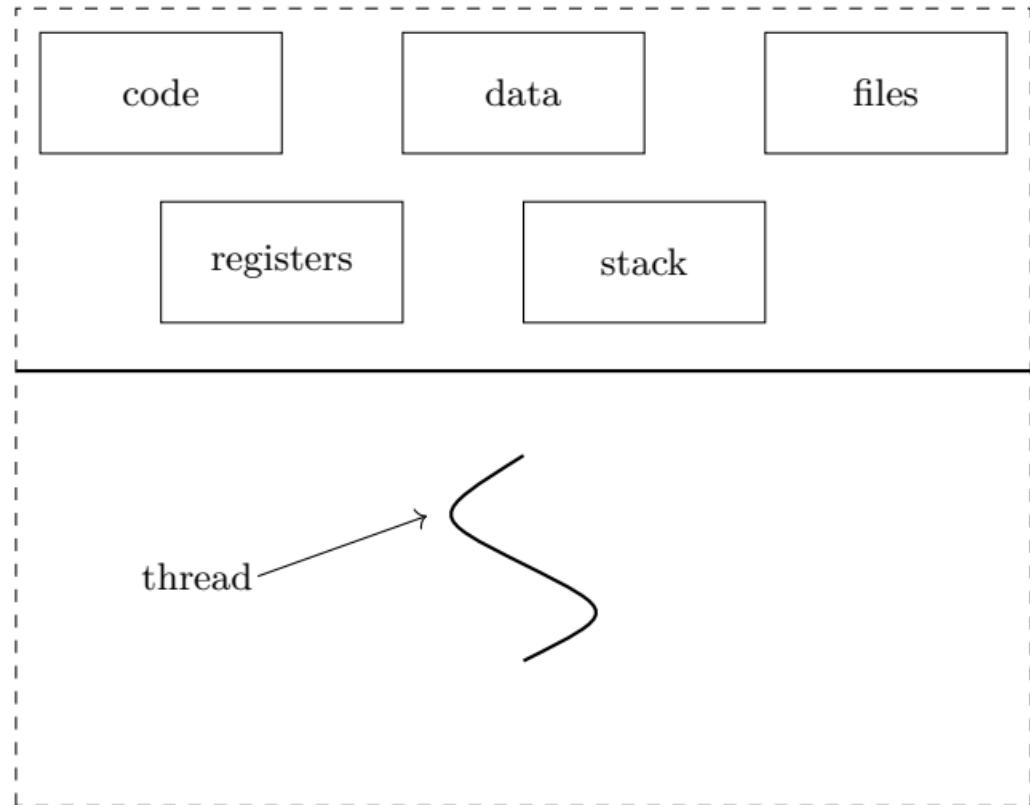


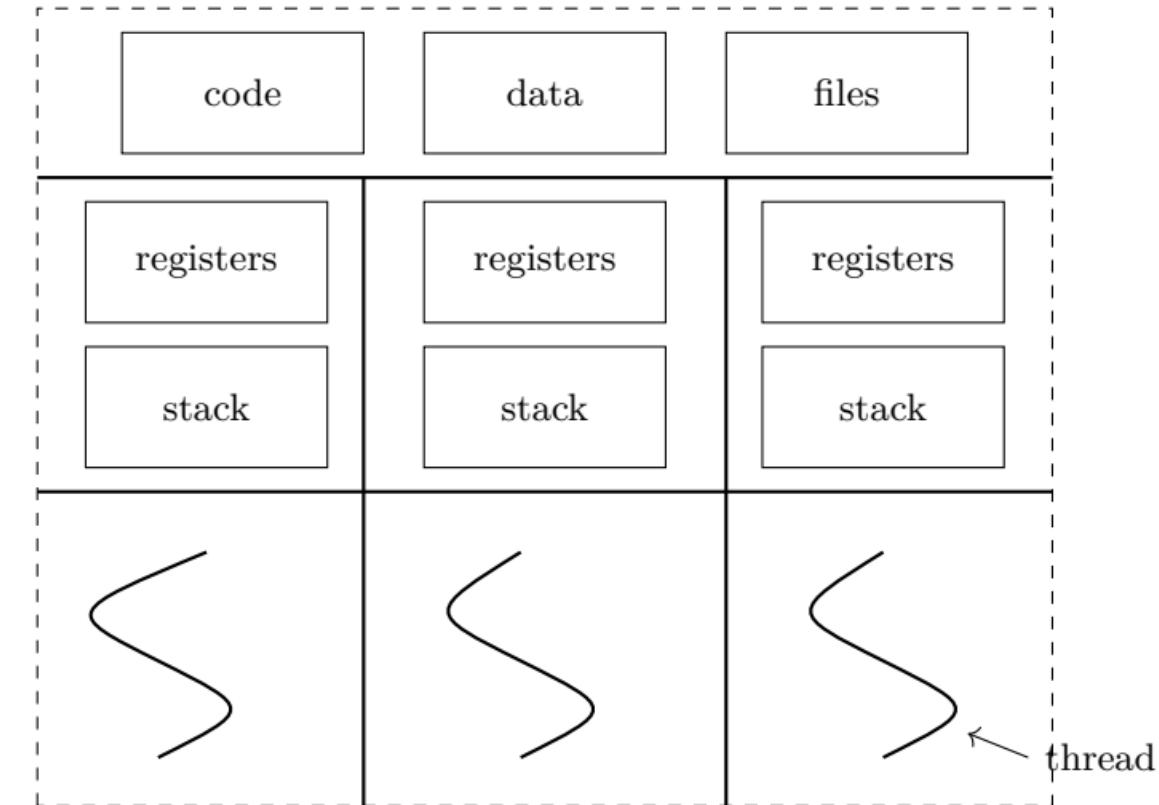
# Many Process



single-threaded process



multithreaded process



## High address

open file desc. table  
kernel stack  
command-line arg.  
environment var.

### Stack

(*kernel space*)

main(): &r, &p

f(): &k



### Heap

*p*

&gu (0)

Initialized to 0 by exec()

&gi (7), &s (1)

Uninitialized  
global / static data

Initialized  
global / static data

Text / instructions

```
int gi = 7;  
int gu;  
  
int f(int k){  
    static int s = 1;  
}  
  
int main(){  
    int r = f();  
    char *p = malloc();  
    exit(0);  
}
```

Read from program file by exec()

## Low address