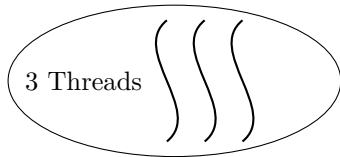
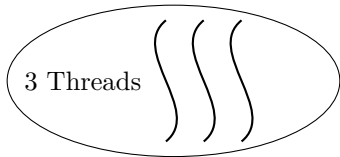


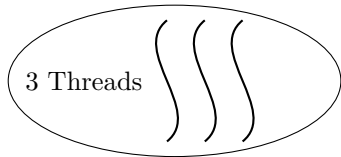
# Many Process



1 Process

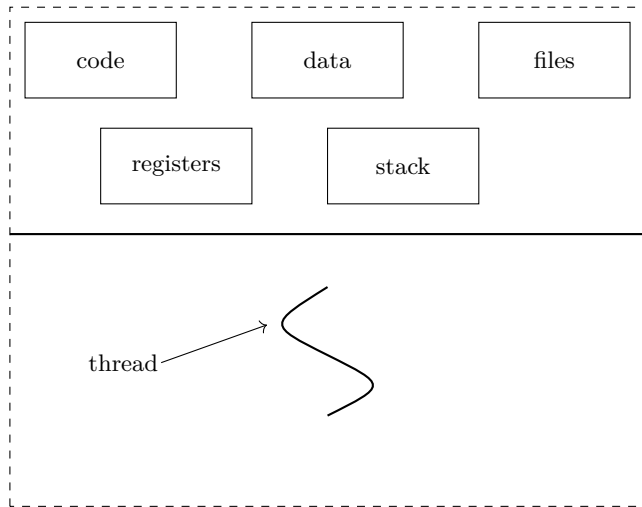


1 Process

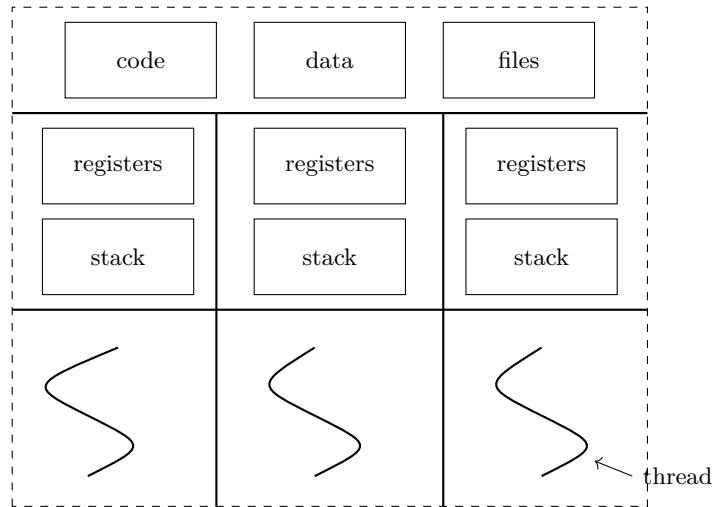


1 Process

single-threaded process



multithreaded process



High address

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

**Stack**

main(): &r, &p

f(): &k



**Heap**

p

Uninitialized  
global / static data

&gu (0)

Initialized to 0 by exec()

Initialized  
global / static data

&gi (7), &s (1)

Text / instructions

main(), f(), exit()

Read from program file by exec()

Low address

```
int gi = 7;
int gu;

int f(int k){
    static int s = 1;
}

int main(){
    int r = f();
    char *p = malloc();
    exit(0);
}
```