

After Kernel finishes booting-create first process

Then subsequent processes will be forked

4 clone process — exact copy

3 both then return from fork

The return values will be different

• Parent will get process ID and child will return 0

waitpid - wait for one process to finish
4 can capture the exit status of a process

ie. child_exit = wait-pid (child_pid);

if the child exits before we call waitpid - we immediately return the exit status

Therefore, it always works!
We will need to implement the following system calls
open, write, read
char buf[1]; fd=open("FILE", O_RDWR O_(REATE); re-write (fd, "HELLO \n", 6); if (rc<0) { re-write (fd, "WORLD\n", 6); } HELLO\nWORLD\n Seek (fd, Ø, SEEK_SET); // op to position zero read (fd, buf, 7) // copy from 0 to 7 fd2=open ("FILE", O_RDWR); // will have a different handle and offset
fd=open("FILE") rc=FORK()
if(rc==0)
child—read (fd) Telse {
parent read (fd)

For each prod	:ess
-keep track o	
•	given to app
-current file	-
-anything e	·
a g -c	
File handles 0	1,1,2
	y available in each process
•	•
After fork()	
·	ne open file handle as parent
	hild share current file position for each file at time of fork
this property	is desired when you want a parent and their child to
cooperate	
After execv	
-open files un	changed
•	