(5) Injurbade: The Process API

* 2	icens process creation in Unix systems	
	L's fauctional, easy to use, I high performance.	
5.7	THE FOUR () SYSTEM CALL	
	fork() system call of used to crack a new process. In watch out for fook bombs!	
	The = { 20 => failure } 0 => child } 20 => parent (pid of child process)	
	(> 0 =) parent (ped of child process)	
*	invoked fork!) (i.e., parent) — own private advers space, registers, PC.	
*	child starts running where fork was invoked.	
*	outcome is not deferministic as depends on scheduler: Leads to problems up concurrency.	
5.7	2) THE Wait () SYEREM CALL	
* (often useful for the pursuit to wait for a child process to finish executing. (wait (s))	
	La use con make code deterministic	
5.	3) The exect) System Call	
	exec() is useful when you would to vun a different program from the alling program.	
	Loads code/static data from the executable you want to run & overwrites the current process' mamony space (heap/static data)	
	Ly i.e. — transforms currently running program into another running program.	

(5.4) WHY? (APE)

* fack() It exec() is essential in building a UNIX shell.
Is executing command := fack() it exec() wy command it engs., reform to provent process for next command.

La output redirection := fork(), close stdout but open file, exec() la OS looks for file descriptors @ zero to autent tos (STDOUT_FREND by essentially reassigning strong to a file (Instead of screen)

is output of one process connected to in- servel gipe (queue) Ly input of one pocess connected to same pipe

h pipes := use pipe() system call

(5.5) Process Common & Useas

- * kill() e sepseall used to send signals to a process (paux, die, dz.) * SIGINT - inhumpt (ferminale)
 - * STUSTP stop (pause)
- * signal subsystem allows for conding signals to whole process groups
- * process are the signal () systall to catch various signals.
 - processes they didn't could, is restrict access to what processes can catch signals 45 war can exercise control over the processes they launch !

shufdown the system etc.

(5.6) Use FUL Tools

- * ps command info on processes
 - * kill
 - * htop

