

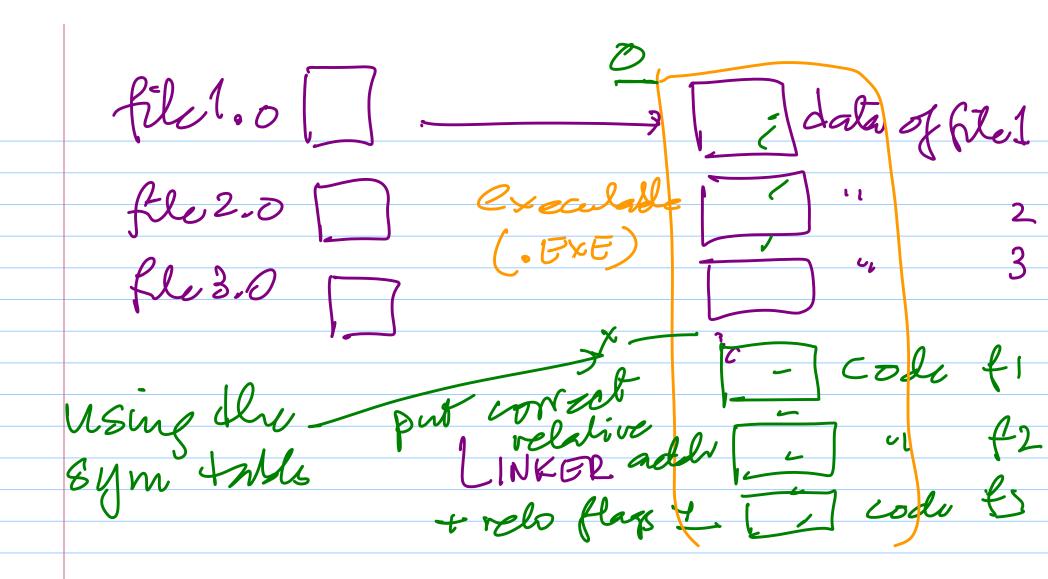
f1.c Inti , object Separale Futy & data TC) & code

external Source file

RELOCATION

external references Symbost taloles references that extend. modeles many use internal, intuad2 INTERNA

file-C Rdv. O Cprog



C-prooq -> compile -> . Ofilos -> tiule -Used by 08 to run a process Landha program
Called the LOADER

STACK

run the process

a process is started by

a process

powent

load menony Process Create ar process control ova Cesso pat the PCB addr of main to the [ready 8] UNIX

maur()

Sprintf ("Stent");

Zforle()

printf ("Hello wald);

output -> Start
Parent;
child main () 2 start if (fol==0) 2 f1(); f2 -> printf("parent");

fork cocatas processes execution UNIX -> no threads LINUX -> thread creation done by clone()

WINDOWS -> Start Thread L --- J

processes -> Separate activity,
share nothing Trounds -> Cooperation activity shave code, data with pavent

threads are useful Ly one application has multiple concurrent activity - computation speedup - modularity compulation - Vespon siveness 3 hser + multicove interface - economy

Droblen with threads

- race conditions - males execution insonsistent or incorrect velo mutual exclusion a locking - Synchromization nædel

User threads & Kernel threads > Note terminology fail User thread -> a thread created at application level by Revnel thread s a DS created
thread

> via a scheduler

Wer through executes

when the kernel threads

execute

1) -> Kernel thread bloches -> all user threads bloch

2) - 1 clu can be used.

1 kernel Alvest -> n user through suse multiple kernel