

- Superison made: can execute nound instruct tions, printege instructions and occess all greenery (e.g., duries)

A Sextem cally

- Ver eaunet execute misleged instructions.

- Oxus must osk OS to execute them-typic colly;

- System colls one ofren implumented wing TRAPS (int);

- OS gains cautiel shrough strop, muitches to significa model, pufarme surice, suitcher book to use made, and gives control book to user (iret).

System - call interface = ADTIS

operations

FILE INPUT OUTPUT

open, close, read, write, dup

PROCESS COURCE

fork, exit, wait, till, exee,...

INSTRUCTION COMMINICA pipe, socket, ...

open system reals (D

WINT - open - possibly to cute a fre or device

SYMPSIS

\* include < systapes. h> \* include ( mys/stat. h) & include < fontl. h>

flags examples: O-ROOMY O-WRITE! O-CREATE

int open (const chal \*pathnouse, int lags, made - 4 mode)

is the punision to me (it from

DESCRIPTION

the open () system call is used to convert a polynous into a like descriptor (o small, non-repetive integer for use in subsequent 210 Os with read, write rete). When the redl is successful, the like desciptor alterned will be ... "wiput / autput

Ottose systemale

Thank a like description

(Synopsis) unt clear (int fed);

DESCRIPTION

closes a find, so that it so langer regular to oney five and maybe be reused. Any lacks sheld on the fix it mos associated with, and sweed by the process, one remared (reparalless of the fix disciples that mos used to obtain the lack)...

- read from a fife description

- read from a fife description

- rest read ( int fod, acid \* beef, int count),

doesn't read lines, it just read bytes!

\_read() aftempts to read upto (cant bytes from hite descriptor (led into the buffer starting at (PUF).

It count is zero, red () returns zero and has no other results. It count is greater than SSIZE-UAX, the result is empreshed.

RETURN VALUE

on success, the number of bytes mod is noting ned (zero indicates END of file), and file position is advanced by this number.

smaller thou the number of begtes reported ... on every, -1 is returned, and empois set opprepriately.

. Write to a like descriptor

dados de 1

- gravo deces de 1 suffer declaredo pula usuaria en 1 det dispositivo (ex: orquino) cint write (inthe paid \* buf, int reaent);

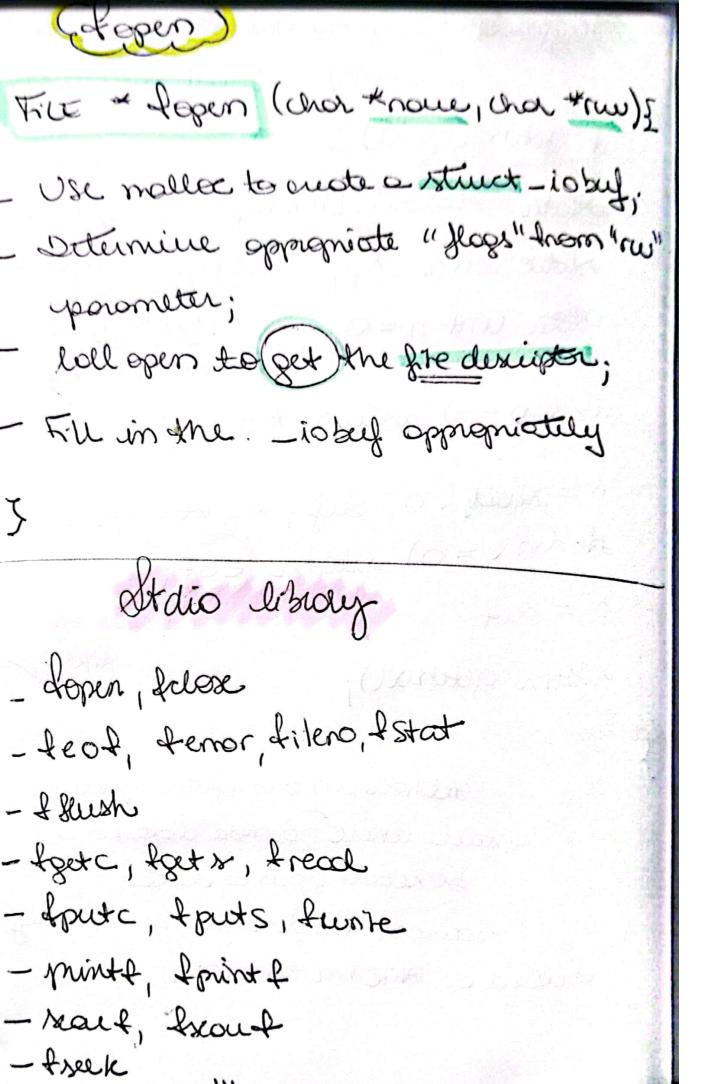
referenced by the fd from the buffer starting at beef.

## RETURN MUE

on success, then when of bytes written is returned ( O indicates non-influer writtener without). It is not one error it this number is smaller whou the number of bytes requested ... Once error 1-1 is returned, and error is set oppropriately

Flyfered Input / Output (cont) Quant. exoto de sotes unt getenal(void) I -em 1 Kitobate. Get wouds Static vehas buf [1024]; um suffer de statie vehor \*p; 1600 por wendo, x Utotac wint n = 0; 16×1024) uf (n--) return +p++; n=read (0, buf, vized (buf)). it (n(=0) references; 4 = but; return getchas(); fileor

ladition in a computer agricting
system where no more data can
be read from a data
source, who data source is under
realled a fite or stream.



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