```
Const char fife w= "/tmp/wfife"
dibrariles to be included = unich! h, stdio h, stdlib h, string h, forth h, sys/stor. h, sys/stor. h, sys/reman. h show iffe
                                                                                                      mklife (fip-w, 0666)
                                                                                                      int life-write = open (life-w, OWRONLY)
 int shm-fd = shm_open ( name, O_CREATE | O_RDWR, 0666)
                                                                                                       write (fifo-write, &i, sizeq(ird))
 Struncate (shim-fd, size) void ptr = mmole (0, SIZE, PROT-READ | PROT-WRITE, MAP_SHARED, shim-fd, 0)

int if (ptr = mAP-FAILED).
                                                                                                       read (fife - read, &j, rized (int))
 Chan str = (chan ) maller (8)
 memory (ste, pte, 8)
                                                                                                      close (difo-write)
# include: addio.h, addlib.h, atring.h, unised.h, ays types.h, ays/except.h, age/un-h
                                                                                FILE * JP)
# define SOCK-PATH "unix_socket_example
                                                                                  fp = Jopen ("test.txt", "r");
struct sockaddr_un serw-addr, di-addr;
                                                                                 freek (fp, 0, SEEK-END):
int sock-fd = socket (AF_UNIX, SOCK_DGRAM, 0)
bzono ( (chan*) & www-oddr, sizely (serw-addr));
                                                                                  int file_size = fiell (fp)
servaddr. sun-family = Af-UNIX
stripy (sure adds . sun-path, SOCK-PATH);
                                                                                  fclose (fp)
bind (sackfel, (stout sackarder &)& sow-addr, uzage (sew-addr))
                                                                                  sendto (solefd, & file-size, size of (file-size), 0,
 int m= reculrom (socketd, buffer, 256, 0, (struct socket addr ") & di-addr, & fen);
 int file-size;
                                                                    rized (chi addis)
                                                                                  fp = Joken ("text.txt", "x")
     bytes received
   furite ( buffer, I, n, stdart) - byk_received number of
                                                                                  while (foots (buffer, 256, fp) != NULL)
                             bytes to strout
                                                                                  fclose (fp)
  Unlink (SOCK-PATH)
                                                                                 close (sockfd)
 dek.h - include any struct at the top
 -> define functions from lossoc.c
 > int getnumprous ();
                                                                                            Proc. K
                                                                                            Include all new variables of a process in proc. h
 > int getmox PID();
 > int get procense (int pid, about procumps " fromse);
\underline{bruc.C.} \rightarrow has all functions like allocknow, fork ...
                                                                                            systall C
                                                                                             extern int sys_hallo (void):
- If some new variables for a forecess, do this in allocation
                                                                                             entern int eys-hello You (void);
-> acquive and release look
                                                                                             [SYS_hello] Sys_hello,
  if ( aurlerior -> well- adds ) :
                                                                                            (SYS_helloYon) sys-helloYou
        No + f = eip = ( wint) (curproc > welc-addr)
                   start on a function on returning
                                                                                            syscall h
                                                                                            # define S/S_hello You 23 } eyscall numbers
   int getnumperocs () §
         struct proc P:
          int aunt = 0
          arquiere (& ptable bak) >
                                                                                            systeme. C
          for (p= ptable. forex ; p< & ptable. forex(NPROC); p++) {
                                                                                            int up-hello/m(void) {
                  if (P-) Note != UNUSED ) count ++;
                                                                                              $ (august (0,8 pto) < 0) outlom-1;
                                                                                               chan name = (chan ) pts;
          helease (& ptable, lock);
         return count;
                                                                                                return 0;
   int getpowerings (int pid, struct processings * processings)
                                                                                             int sys-wellone Done () {
                                                                                                  struct proc curprox = myperox();
 uson.h:
                                                                                                   If (writing , rut adds) {
                                                                                                         cours proces of + cipe (wint) (comprace not addr);
    ±1 include "priocess Info. 6"
     int hello ();
      int get Pove Info (int pid, itemed fracers Info proceinfo);
                                                                                                gritum -1;
  ways.S
     SYSCALL (hello)
      SYSCALL (getprio)
```

```
int pipe - in [2]

int pipe - out [2]

pipe (pipe - in)

pide forte ()

if (pid = = 0):

close (pipe - in (i))

dup2 (pipe - in (o), o)

close (pipe - in (o))

worte (pipe - out (o), buyger, size of (buyger)):

wat pid (pid, NULL, 0)
```

```
It include stallibility, attion in storing in unistable,
    syntypesh, syntych systemy.h
stouct my-mys { long int mag-type;
chare some -text(512);}
    mgid = magget ((key-+)14534, 0666 | IPC - CREAT);
    magand (regard, (void) & some data, 5(2,0)
      I same in the hereiver
    magrer (magid, (void") & some-data, BUF SIZ,
                         mag - to - rec, o);
             # include < notinet / in. h > stdio. h stdlib. h
                       stowng. h, sys Looket. h,
                                            int obt=1
             # define PORT 600
                Stouct Sockaddy - in address
                 sodelm-+ addres = sizeq (address)
               it server - fa = Locket (Af - INET, SOIK-STREAM, O)
                set sockapt (server fl, SOL_SOCKET,
                             SO_REUSEADDR | SO_REUSEPORP,
                                 2 oft, sized (apt))
                address sin family = NF-INET
- address sin - addr. s-adds = INADDR-ANY
                 address. sin-port = prons (PORT)
                bind (serverfd, (struct footddr")& address,
  Remove
                                    sized (address))
this in dient
               listen (sower fd, 3)
              now-sourcet = accept (server-fd),
                                          ( struct rockadels )
                                                        4 address,
                                         & addorlin))
             valread = read (now_socket, buffer, 1024-1)
             send ( new_saket, hello, sorten (hello), 0)
              close ( now-socket )
               close (sower ft)
                        connect ( client - Jd, ( ethnut sodeaddr ")
                                                       & sow-adds,
          dient =)
                                         erzeof (NOW - addr);
```