the main fun who notity of a get surby name () is to the get by fort number by feeding the domain name as in fut.

At nut reconst surent gets ur by name (voust when termane, voust war * protorane)

At nut the surent {

Use the surent {

Use the surent;

use th

This is the general structure of get sur by name!

It contains the common aliases of the other domain

Thomas that is ged and also the post number of from

the where survive has to be fetched by none

name

both get bahaft and detect setsochoft are wed to manifulte the options which are present.

Sphions can be of two types,
Bisary options Law home a value of Obi 1, a disperson with get soutoft and set san oft, & fent and want are also used commonly.

Set sochoft (south, significantly, "oft name, "oftval, streetapt)!

This is the structure of get sachoft, similarly it is used

Smilerly detached has the following structure:

Set soughoft (sound, some detached, brothname, toptical, six loft);

This is used to set a sountfile disniples by the option name

yed.

both get host byname one get hostbyodden support only
of up.

int addings (won't wan & nost name, won't wan & service, won't Atult addings. Animate, atrult addings ** Swell)

to and additions other that the called bills in with

hints.

Items add into {

int ai-flogs;

int ai-family;

int ai-surtype;

int photocol;

sock len-t attai-addition

than * ai-commensure;

Attack addition * ai-next;

Attack addition * ai-next;

while the structure of get hostby name is

4 thurt nort mosteret * get nort by name (wort work hostname)

4 thurt nort mosteret won well i box, Nuce on end with herver

65)

A reclude Entrio h

When *h-name;

then *h-name;

there int h-aliases;

there int h-add type;

int h-length,

when R× h-add -list;

Return SPV4 addresses

ati

inllude cistolio. hs # include a string hs # inlude a syst stat. hs # inlude 4 net int. us # inhude capainth. hs # dogine lor T 8080 # define MAXINE 1024 int main () { int soch ld; when buffer [MAXLINE]; Struct sochaddy - in bevaddi; ib (sould = somet (AF-INET, som DURAM, O)) cold genon ("sochet meatien priled"); est ();

memorat (a windodd, o, o sing (chidddl))

ouvadde. I in - Comily = AF-INET omadde . sin - adde = INAOPR - ANY surodde. sin - post = how (port); if bind both p, wonst. struct order soch addity gemon (" bindfailed") · wobit (); intlen, m; * len = singer o (liaddi); MULL-NEM-NEM While III of h = Lecygram (soch from war), buffer, 3. MAXLINE, Ma); bygu [n) = "10" frints (" lient : 1.5", buffer) 8 High Conesdaye don't tast Hite send to (sound (work thank by your stallowy). Min pints ("message send I n") confirmer, constitutely sounced in llose 1 Man 11; # (whode < stdio. brs # inditale estalling, hs # inlide Lighter. hs # in Unde chadint. hs * include capraint. h # define PORT 8080

```
# define MAXLINE 1024
int main (16
      int supply,
      than bublit MAXLINE];
      Atmest Jahadde-in sichadda;
   if ( bound = aouter (AANET, SOLKDURAMO)) < 0]
               ferror (oriver pailed");
      I wentet ( liadde, 0, sixe (odde));
    int n.len;
    While (1)
      hinth ( " entry the medage ");
         Pouts (buffer, MAXLINE, sidin);
         buyen Torneson ( buyen, "In"] = ("10")
          send to Esoch bd ( constituen + bupger)
            17 Mbyfy, Msy - LONFIRM & court stant
            sotte sochedda &) 1
      pints ( inescope sent ");
           n = New from Look for, (mark) bygy, MARLINE,
            MUN - WAIT, NULL JUNEOU + TOTAL SHOW
               bring ( , pos purer ; 1 2 , pos proter).
```

1. The DNS (Domain Name system) is used to map the host to 18 address of 18 to host. It uses the function gethertbydder!) to execute this. Real life example: In a reverse DNS lookup, execute this. Real life example: In a reverse DNS lookup, execute this. Real life example: In a reverse DNS lookup, execute this called to map the 18 address to the host gethertby address in called to map the 18 address to the host.

The server will expect an input from a client sending the IP-lind-host packet.

After some time of not reciering the packet the process dies and the further is called off by interep interrupt.

3. UPP (User datagram Protocol) does not guarante the delivery of packets; it is hence also described as unveliable datagram protocol.

4. gai-strerrorl) is used to correct the everor got from the getadder 1) stream.

5. The recvfrom() function allows the caller to mention the sender's IP address to recreive the parkets from that specific caller unlike the recv() call which lets any generic sender.

be I when the o ruvice on request is bent from usent to server, the request might get last sometimes on the way. The UPP Went will be trying to histen to in wining hequest wing newflow, but it does not the know the hequest is lost. 4) In Juna Sunario, the USP puts a timemeout, the new your function if it does not heweve a nequest within a speculated time, it will be notified that The father has been bost. Then either in new Liquest to abandoned. one secretion is used to begin a taquest from the client or an alknowledgement from the server the recognom specifier about the who the sender is the formaddi the sender formaddi the sound of the sender is sounded, significantly while in sund to, it is used to send me client an advance ledgement of the request revened the or it is used to send the server a service highest. Send to takes in the center's address as an argument and rands the request. The return type of both functions I the length of the request they make. both functions are extensively used too in vol Audto (souled, rendereder, souhadder, si yelforhaddel):