

Purpose: This is designed to familiarize you with information retrieving system calls.

Build a program that takes 5 command line arguments (that's counting the command).

If the number of arguments is not equal to 5, the program should print a message and exit. (Remember argument 0 is the name of the command.)

Argument 1: this should be the name of a machine. Use this in a `gethostbyname` call. If a NULL pointer is returned print a message; otherwise print the IP address (use `inet_ntoa` as in lecture).

Argument 2: this should be the name of a service. Use this in a `getservbyname` call. If a NULL pointer is returned print a message; otherwise print the port number of the service. Assume the protocol is "tcp".

Argument 3: this should be the port number of a service. Use this in a `getservbyport` call. If a NULL pointer is returned print a message; otherwise print the name of the service. Assume the protocol is "tcp".

Argument 4: this should be a dotted IP number (such as 134.139.248.17. Call `inet_addr` to convert it into a 4 byte internet number. If you get `INADDR_NONE` back print a message (bad format); otherwise; call `gethostbyaddr` with the 4 byte internet number. If `gethostbyaddr` returns a NULL pointer print a message; otherwise print the name of the host.

`~volper/classes/472/shells/info.c` contains the code examples from the lecture (you don't have to retype them).

Call your finished program `info.c`.