

```
1: // $Id: showhost.cpp,v 1.4 2014-05-20 19:51:15-07 - - $
2:
3: #include <iostream>
4: #include <string>
5: #include <vector>
6: using namespace std;
7:
8: #include <arpa/inet.h>
9: #include <errno.h>
10: #include <netdb.h>
11: #include <netinet/in.h>
12: #include <sys/socket.h>
13: #include <sys/types.h>
14:
15: int main (int argc, char** argv) {
16:     string progname (argv[0]);
17:     vector<string> args (&argv[1], &argv[argc]);
18:
19:     for (const string& hostname: args) {
20:         if (args.size() > 1) cout << endl;
21:         hostent* host = gethostbyname (hostname.c_str());
22:         if (host == nullptr) {
23:             cout << hostname << ": " << hstrerror (h_errno) << endl;
24:         } else {
25:             cout << "Hostname:  " << hostname << endl;
26:             cout << "h_name:    " << host->h_name << endl;
27:             for (char** alias = host->h_aliases; *alias; ++alias) {
28:                 cout << "h_alias:  " << *alias << endl;
29:             }
30:             for (in_addr** addr_list = (in_addr**) host->h_addr_list;
31:                  *addr_list; ++addr_list) {
32:                 cout << "h_addr:    " << inet_ntoa (**addr_list) << endl;
33:             }
34:         }
35:     }
36:
37:     return 0;
38: }
39:
40: /*
41: //TEST// showhost www.soe.ucsc.edu soe.ucsc.edu \
42: //TEST//          www.ucsc.edu unix.ucsc.edu \
43: //TEST//          unix1.lt.ucsc.edu unix2.lt.ucsc.edu \
44: //TEST//          www.google.com www.nohost.zone >showhost.output
45: //TEST// mkpspdf showhost.ps showhost.cpp* showhost.output
46: */
47:
```

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1:
2: Hostname:  www.soe.ucsc.edu
3: h_name:    www-01.soe.ucsc.edu
4: h_alias:   www.soe.ucsc.edu
5: h_addr:    128.114.50.76
6:
7: Hostname:  soe.ucsc.edu
8: h_name:    soe.ucsc.edu
9: h_addr:    128.114.48.62
10:
11: Hostname:  www.ucsc.edu
12: h_name:    wcms-vip5.ucsc.edu
13: h_alias:   www.ucsc.edu
14: h_addr:    128.114.109.5
15:
16: Hostname:  unix.ucsc.edu
17: h_name:    unix.lt.ucsc.edu
18: h_alias:   unix.ucsc.edu
19: h_addr:    128.114.108.152
20: h_addr:    128.114.104.230
21:
22: Hostname:  unix1.lt.ucsc.edu
23: h_name:    unix1.lt.ucsc.edu
24: h_addr:    128.114.108.152
25:
26: Hostname:  unix2.lt.ucsc.edu
27: h_name:    unix2.lt.ucsc.edu
28: h_addr:    128.114.104.230
29:
30: Hostname:  www.google.com
31: h_name:    www.google.com
32: h_addr:    74.125.239.114
33: h_addr:    74.125.239.115
34: h_addr:    74.125.239.116
35: h_addr:    74.125.239.112
36: h_addr:    74.125.239.113
37:
38: www.nohost.zone: Unknown host
```