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#include <stdio.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>
#include <stdlib.h>
#include <strings.h>
#include <string.h>
#include <unistd.h>
#define SERVER_PORT 5432
#define MAX_LINE 256
int main(int argc, char * argv[])
  FILE *fp;
  struct hostent *hp;
  struct sockaddr_in sin;
 char *host;
 char buf[MAX_LINE];
  int s;
 int len;
 if (argc==2) {
   host = argv[1];
  }
 else {
    fprintf(stderr, "usage: simplex-talk host\n");
    exit(1);
  /* translate host name into peer's IP address */
 hp = gethostbyname(host);
 if (hp == NULL) {
    fprintf(stderr, "simplex-talk: unknown host: %s\n", host);
   exit(1);
  /* build address data structure */
  bzero((char *)&sin, sizeof(sin));
  sin.sin_family = AF_INET;
  bcopy(hp->h_addr, (char *)&sin.sin_addr, hp->h_length);
  sin.sin_port = htons(SERVER_PORT);
  /* active open */
 if ((s = socket(PF_INET, SOCK_STREAM, 0)) < 0) {</pre>
    perror("simplex-talk: socket");
    exit(1);
  printf("Attempting to connect to %s.\n", hp->h_name);
  if (connect(s, (struct sockaddr *)&sin, sizeof(sin)) < 0)</pre>
    perror("simplex-talk: connect");
    close(s);
    exit(1);
  /* main loop: get and send lines of text */
  printf("Connected to %s.\n", hp->h_name);
  printf("Send a message to the server: ");
```

```
while (fgets(buf, sizeof(buf), stdin)) {
  buf[MAX_LINE-1] = '\0';
  len = strlen(buf) + 1;
  send(s, buf, len, 0);
  printf("Send a message to the server: ");
}
```

}