

06/02/19 08:49:27 C:\Users\rfbie\Desktop\FTP-Client\大作业\ftpccli.c

```

1  /* header files */
2  #include <stdio.h>
3  #include <stdlib.h>
4  #include <netdb.h> /* getservbyname(), gethostbyname() */
5  #include <errno.h> /* for definition of errno */
6  #include <sys/types.h>
7  #include <sys/stat.h>
8  #include <fcntl.h>
9  #include <unistd.h>
10 #include <string.h>
11 #include <sys/ioctl.h>
12 #include <sys/fcntl.h>
13 #include <termios.h> /* Used to not display password directly, instead using ***** */
14 #include <sys/time.h> // used to limit the transmission rate, get current time
15 //int gettimeofday(struct timeval*tv,struct timezone *tz )
16 //int nanosleep(const struct timespec *req, struct timespec *rem);
17 /*
18 struct timeval{
19     long tv_sec;
20     long tv_usec;
21 };
22
23 struct timezone{
24     int tz_minuteswest;
25     int tz_dsttime;
26 };
27 */
28
29 #define ECHOFLAGS (ECHO | ECHOE | ECHOK | ECHONL)
30
31
32 /* define macros*/
33 #define MAXBUF 1024
34 #define STDIN_FILENO 0
35 #define STDOUT_FILENO 1
36
37 /* define FTP reply code */
38 #define USERNAME 220
39 #define PASSWORD 331
40 #define LOGIN 230
41 #define PATHNAME 257
42 #define CLOSEDATA 226
43 #define ACTIONOK 250
44
45
46 /* Define global variables */
47 char *rbuf,*rbuf1,*wbuf,*wbuf1; /* pointer that is malloc'ed */
48 char filename[100];
49 char newfilename[100];
50 char tmp[100];
51 char dirname[100];
52 char *host; /* hostname or dotted-decimal string */
53 struct sockaddr_in servaddr;
54
55
56 //int mygetch();
57 //int getpasswd(char *passwd, int size);
58 int set_disp_mode(int fd,int option);
59 int cliopen(char *host,int port);
60 int strtosrv(char *str);
61 void ftp_list(int sockfd);
62 int ftp_get(int sck,char *pDownloadFileName);
63 int ftp_put(int sck,char *pUploadFileName_s);
64 void cmd_tcp(int sockfd);
65
66 //函数set_disp_mode用于控制是否开启输入回显功能
67 //如果option为0, 则关闭回显, 为1则打开回显
68 int set_disp_mode(int fd,int option)
69 {
70     int err;
71     struct termios term;
72     if(tcgetattr(fd,&term)==-1){
73         perror("Cannot get the attribution of the terminal");
74         return 1;
75     }

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76     if(option)
77         term.c_lflag|=ECHOFLAGS;
78     else
79         term.c_lflag &=~ECHOFLAGS;
80     err=tcsetattr(fd,TCSAFLUSH,&term);
81     if(err==-1 && err==EINTR){
82         perror("Cannot set the attribution of the terminal");
83         return 1;
84     }
85     return 0;
86 }
87
88 int main(int argc,char *argv[])
89 {
90     int fd;
91     // Judge whether missing parameters
92     if(0 != argc -2)
93     {
94         printf("%s\n","missing <hostname>");
95         exit(0);
96     }
97
98     //define host and port
99     host = argv[1];
100     int port = 21;
101
102
103     /*****
104     //1. code here: Allocate the read and write buffers before open().
105     // memory allocation for the read and writer buffers for maximum size
106     *****/
107     rbuf = (char *)malloc(MAXBUF*sizeof(char));
108     rbuf1 = (char *)malloc(MAXBUF*sizeof(char));
109     wbuf = (char *)malloc(MAXBUF*sizeof(char));
110     wbuf1 = (char *)malloc(MAXBUF*sizeof(char));
111
112     //Initiate the socket to communication
113     fd = cliopen(host,port);
114     cmd_tcp(fd);
115     exit(0);
116 }
117
118 /* 如果不用替换* 暂时不用这个
119 int mygetch()
120 {
121     struct termios oldt, newt;
122     int ch;
123     tcgetattr(STDIN_FILENO, &oldt);
124     newt = oldt;
125     newt.c_lflag &= ~(ICANON | ECHO);
126     tcsetattr(STDIN_FILENO, TCSANOW, &newt);
127     ch = getchar();
128     tcsetattr(STDIN_FILENO, TCSANOW, &oldt);
129     return ch;
130 }
131
132 // password to * method
133 int getpasswd(char *passwd, int size)
134 {
135     int c, n = 0;
136     do
137     {
138         c = mygetch();
139         if (c != '\n' && c != 'r' && c != 127)
140         {
141             passwd[n] = c;
142             printf("*");
143             n++;
144         }
145         else if ((c != '\n' | c != 'r') && c == 127)//判断是否是回车或则退格
146         {
147             if (n > 0)
148             {
149                 n--;
150                 printf("\b \b");//输出退格
151             }
152         }
153     }

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153     }while (c != '\n' && c != '\r' && n < (size - 1));
154     passwd[n] = '\0';//消除一个多余的回车
155     return n;
156 }
157 */
158
159 /* Establish a TCP connection from client to server */
160 int cliopen(char *host,int port)
161 {
162     //control socket, in corresponding to data socket
163     int control_sock;
164     struct hostent *ht = NULL;
165
166     control_sock = socket(AF_INET,SOCK_STREAM,0);
167     if(control_sock < 0)
168     {
169         printf("socket error\n");
170         return -1;
171     }
172
173     //将IP地址进行转换, 变为FTP地址结构体
174     ht = gethostbyname(host);
175     if(!ht)
176     {
177         return -1;
178     }
179
180     //connect to server, return socket
181     memset(&servaddr,0,sizeof(struct sockaddr_in));
182     memcpy(&servaddr.sin_addr.s_addr,ht->h_addr,ht->h_length);
183     servaddr.sin_family = AF_INET;
184     servaddr.sin_port = htons(port);
185
186     if(connect(control_sock,(struct sockaddr*)&servaddr,sizeof(struct sockaddr)) == -1)
187     {
188         return -1;
189     }
190     return control_sock;
191 }
192
193 //匹配下载的文件名
194 int s(char *str,char *s2)
195 {
196     //char s1[100];
197
198     return sscanf(str," get %s",s2) == 1;
199 }
200 }
201
202 //匹配上传的文件名
203 int st(char *str,char *s1)
204 {
205     return sscanf(str," put %s",s1) == 1;
206 }
207
208
209 /*
210     Compute server's port by a pair of integers and store it in char *port
211     Get server's IP address and store it in char *host
212 */
213 int strtosrv(char *str)
214 {
215     /******
216     //3. code here to compute the port number for data connection
217     EG:10,3,255,85,192,181 192*256+181 = 49333
218     *****/
219     int addr[6];
220     //divide the string in to different parts
221     sscanf(str,"%*[^](%d,%d,%d,%d,%d,%d",&addr[0],&addr[1],&addr[2],&addr[3],&addr[4],&addr[5]);
222     //clear the host
223     bzero(host,strlen(host));
224     sprintf(host,"%d.%d.%d.%d",addr[0],addr[1],addr[2],addr[3]);
225     int port = addr[4]*256 + addr[5];
226     return port;
227 }
228
229 /* Read and write as data transfer connection */

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230 void ftp_list(int sockfd)
231 {
232     int nread;
233     for( ; ; )
234     {
235         /* data to read from socket */
236         if((nread = recv(sockfd,rbuf1,MAXBUF,0)) < 0)
237         {
238             printf("recv error\n");
239         }
240         else if(nread == 0)
241         {
242             //printf("over\n");
243             break;
244         }
245         if(write(STDOUT_FILENO,rbuf1,nread) != nread)
246             printf("send error to stdout\n");
247         /*else
248             printf("read something\n");*/
249     }
250     if(close(sockfd) < 0)
251         printf("close error\n");
252 }
253
254 /*
255 void checkSpeed(){
256     int stopTime = 1;
257     if (curSpeed>SPEEDLIMIT){
258
259     }
260 }
261 */
262
263 /* download file from ftp server */
264 int ftp_get(int sck,char *pDownloadFileName)
265 {
266     int handle = open(pDownloadFileName,O_WRONLY | O_CREAT | O_TRUNC, S_IRREAD | S_IWRITE);
267     int nread;
268     printf("%d\n",handle);
269     /*if(handle == -1)
270         return -1;*/
271     struct timeval start, end;
272
273     for(;;)
274     {
275
276         //checkSpeed
277         //gettimeofday( &start, NULL );
278
279         if((nread = recv(sck,rbuf1,MAXBUF,0)) < 0)
280         {
281             printf("receive error\n");
282         }
283         else if(nread == 0)
284         {
285             printf("over\n");
286             break;
287         }
288         //Limiting speed function
289         /*
290         printf("nread is %d\n",nread);//1024,760
291
292         gettimeofday( &end, NULL );
293         float timeuse = 1000000 * ( end.tv_sec - start.tv_sec ) + end.tv_usec - start.tv_usec;
294
295         //MB/s
296         float speed = nread / timeuse;
297         printf("current speed is %.2f" ,speed );
298
299         */
300         // printf("%s\n",rbuf1);
301         if(write(handle,rbuf1,nread) != nread)
302             printf("receive error from server!");
303
304         /* Not print file content to console
305         if(write(STDOUT_FILENO,rbuf1,nread) != nread)
306             printf("receive error from server!");

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307     */
308 }
309     if(close(sck) < 0)
310         printf("close error\n");
311     return 0;
312 }
313
314 /* upload file to ftp server */
315 int ftp_put(int sck,char *pUploadFileName_s)
316 {
317     //int c_sock;
318     int handle = open(pUploadFileName_s,O_RDWR);
319     int nread;
320     //error open
321     if(handle == -1)
322         return -1;
323     //ftp_type(c_sock,"I");
324
325     for(;;)
326     {
327         if((nread = read(handle,rbuf1,MAXBUF)) < 0)
328         {
329             printf("read error!");
330         }
331         else if(nread == 0)
332             break;
333         if(write(STDOUT_FILENO,rbuf1,nread) != nread)
334             printf("send error!");
335         if(write(sck,rbuf1,nread) != nread)
336             printf("send error!");
337     }
338     if(close(sck) < 0)
339         printf("close error\n");
340     return 0;
341 }
342
343
344 /* Read and write as command connection */
345 void cmd_tcp(int sockfd)
346 {
347     int maxfdp1,nread,nwrite,fd,replycode,tag=0,data_sock;
348     int port;
349     int newfilenameLen;
350     char *pathname;
351     fd_set rset;
352     FD_ZERO(&rset);
353     maxfdp1 = sockfd + 1;          /* check descriptors [0..sockfd] */
354
355     for(;;)
356     {
357         //1.将 标准输入加入 可读文件描述符集合
358         FD_SET(STDIN_FILENO,&rset);
359         //2.将 命令套接字 加入可读文件描述符集合
360         FD_SET(sockfd,&rset);
361
362         //3.监听读事件
363         if(select(maxfdp1,&rset,NULL,NULL,NULL)<0)
364         {
365             printf("select error\n");
366         }
367         //4.判断标准输入是否有读事件
368         if(FD_ISSET(STDIN_FILENO,&rset))
369             // && replycode != PASSWORD
370             {
371                 //5.清空读缓冲区 和 写缓冲区
372                 bzero(wbuf,MAXBUF);          //zero
373                 bzero(rbuf1,MAXBUF);
374
375
376                 //set_disp_mode(STDIN_FILENO,1);
377
378                 if((nread = read(STDIN_FILENO,rbuf1,MAXBUF)) < 0)
379                     printf("read error from stdin\n");
380                 nwrite = nread + 5;
381
382
383                 /* send username */
```

```

384     if(replycode == USERNAME)
385     {
386         sprintf(wbuf, "USER %s", rbuf1);
387
388         if(write(sockfd, wbuf, nwrite) != nwrite)
389         {
390             printf("write error\n");
391         }
392         //printf("%s\n", wbuf);
393         //memset(rbuf1, 0, sizeof(rbuf1));
394         //memset(wbuf, 0, sizeof(wbuf));
395         //printf("1:%s\n", wbuf);
396     }
397     /*****
398     //4. code here: send password
399     *****/
400
401     if(replycode == PASSWORD)
402     {
403         //printf("%s\n", rbuf1);
404         sprintf(wbuf, "PASS %s", rbuf1);
405         if(write(sockfd, wbuf, nwrite) != nwrite)
406             printf("write error\n");
407         //bzero(rbuf, sizeof(rbuf));
408         //printf("%s\n", wbuf);
409         //printf("2:%s\n", wbuf);
410     }
411
412     /* send command */
413     if(replycode == 550 || replycode == LOGIN || replycode == CLOSDATA || replycode ==
PATHNAME || replycode == ACTIONOK)
414     {
415         /* pwd - print working directory */
416         if(strncmp(rbuf1, "pwd", 3) == 0)
417         {
418             //printf("%s\n", rbuf1);
419             sprintf(wbuf, "%s", "PWD\n");
420             write(sockfd, wbuf, 4);
421             continue;
422         }
423         else if(strncmp(rbuf1, "quit", 4) == 0)
424         {
425             sprintf(wbuf, "%s", "QUIT\n");
426             write(sockfd, wbuf, 5);
427             //close(sockfd);
428             if(close(sockfd) < 0)
429                 printf("close error\n");
430             printf("221 Goodbye.");
431             break;
432         }
433         /*****
434         // 5. code here: cd - change working directory/
435         *****/
436         else if(strncmp(rbuf1, "cd", 2) == 0)
437         {
438             //sprintf(wbuf, "%s", "PASV\n");
439             sscanf(rbuf1, "%s %s", tmp, dirname);
440             //printf("%s\n", dirname);
441             int dirnameLen = strlen(dirname);
442             //if not, the final character will be the \000
443             dirname[dirnameLen] = '\n';
444             sprintf(wbuf, "CWD %s", dirname);
445             write(sockfd, wbuf, nread+1);
446
447             //sprintf(wbuf1, "%s", "CWD\n");
448
449             continue;
450         }
451
452         // mkdir function
453         else if(strncmp(rbuf1, "mkdir", 5) == 0)
454         {
455             //sprintf(wbuf, "%s", "PASV\n");
456             sscanf(rbuf1, "%s %s", tmp, dirname);
457             //printf("%s\n", dirname);
458             int dirnameLen = strlen(dirname);
459             //if not, the final character will be the \000

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460         dirname[dirnameLen] = '\n';
461         sprintf(wbuf, "MKD %s", dirname);
462         write(sockfd, wbuf, nread+1);
463         //sprintf(wbuf1, "%s", "CWD\n");
464
465         continue;
466     }
467
468     else if(strncmp(rbuf1, "delete", 6) == 0)
469     {
470         tag = 4; //删除文件标识符
471         //printf("%s\n", rbuf1);
472         sprintf(wbuf, "%s", "PASV\n");
473         //printf("%s\n", wbuf);
474         write(sockfd, wbuf, 5);
475         //read
476         //sprintf(wbuf1, "%s", "LIST -al\n");
477         nwrite = 0;
478         //write(sockfd, wbuf1, nwrite);
479         //ftp_list(sockfd);
480         continue;
481     }
482
483
484     /* ls - list files and directories*/
485     else if(strncmp(rbuf1, "ls", 2) == 0)
486     {
487         tag = 2; //显示文件 标识符
488         //printf("%s\n", rbuf1);
489         sprintf(wbuf, "%s", "PASV\n");
490         //printf("%s\n", wbuf);
491         write(sockfd, wbuf, 5);
492         //read
493         //sprintf(wbuf1, "%s", "LIST -al\n");
494         nwrite = 0;
495         //write(sockfd, wbuf1, nwrite);
496         //ftp_list(sockfd);
497         continue;
498     }
499     /*
500     // 7. code here: get - get file from ftp server
501     *****/
502     else if(strncmp(rbuf1, "get", 3) == 0)
503     {
504         tag = 1; //下载文件标识符
505
506         //被动传输模式
507         sprintf(wbuf, "%s", "PASV\n");
508         //printf("%s\n", s(rbuf1));
509         //char filename[100];
510         s(rbuf1, filename);
511
512         //printf("%s\n", filename);
513         write(sockfd, wbuf, 5);
514         continue;
515     }
516     /*
517     // 8. code here: put - put file upto ftp server
518     *****/
519     else if(strncmp(rbuf1, "put", 3) == 0)
520     {
521         tag = 3; //上传文件标识符
522         sprintf(wbuf, "%s", "PASV\n");
523
524         //把内容赋值给 读缓冲区
525         st(rbuf1, filename);
526         //printf("%s\n", filename);
527         write(sockfd, wbuf, 5);
528         continue;
529     }
530
531     //binary mode and ascii mode
532     else if(strncmp(rbuf1, "binary", 6) == 0)
533     {
534         sprintf(wbuf, "TYPE %s", "I\n");
535
536         //把内容赋值给 读缓冲区

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537         st(rbuf1,filename);
538         printf("%s\n",filename);
539         write(sockfd,wbuf,7);
540         continue;
541     }
542     else if(strncmp(rbuf1,"ascii",5) == 0)
543     {
544         sprintf(wbuf,"TYPE %s","A\n");
545
546         //把内容赋值给 读缓冲区
547         st(rbuf1,filename);
548         printf("%s\n",filename);
549         write(sockfd,wbuf,7);
550         continue;
551     }
552
553     else if(strncmp(rbuf1,"rename",6) == 0)
554     {
555         //sprintf(wbuf,"%s","PASV\n");
556         sscanf(rbuf1,"%s %s %s", tmp, filename,newfilename);
557         //printf("%s\n", dirname);
558         int filenameLen= strlen(filename);
559         newfilenameLen = strlen(newfilename);
560         //if not, the final character will be the \000
561         filename[filenameLen] = '\n';
562         newfilename[newfilenameLen] = '\n';
563         sprintf(wbuf,"RNFR %s",filename);
564         write(sockfd,wbuf,filenameLen+6);
565
566
567
568         nwrite = 0;
569         //sprintf(wbuf1,"%s","CWD\n");
570
571         continue;
572     }
573     else{
574         write(sockfd,rbuf1,strlen(rbuf1));
575         continue;
576     }
577
578
579
580
581     }
582     /*if(close(sockfd) <0)
583         printf("close error\n");*/
584 }
585 if(FD_ISSET(sockfd,&rset))
586 {
587     //9.清空读缓冲区 和 写缓冲区
588     bzero(rbuf,strlen(rbuf));
589     //10.读套接字中的内容
590
591     if((nread = recv(sockfd,rbuf,MAXBUF,0)) <0)
592         printf("recv error\n");
593     else if(nread == 0)
594         break;
595
596     //printf("%s",rbuf);
597
598     if(strncmp(rbuf,"220",3) ==0 || strncmp(rbuf,"530",3)==0)
599     {
600         /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
601             printf("write error to stdout\n");*/
602
603         //链接字符串
604
605
606         //printf("your name:");
607         //getpasswd(rbuf, 20);
608         strcat(rbuf,"your name:");
609
610         nread += 12;
611         replycode = USERNAME;
612     }
613     if(strncmp(rbuf,"331",3) == 0)

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```

614 {
615     /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
616         printf("write error to stdout\n");*/
617
618     strcat(rbuf,"your password:\n");
619     nread += 16;
620     /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
621         printf("write error to stdout\n");*/
622     replycode = PASSWORD;
623 }
624 if(strncmp(rbuf,"230",3) == 0)
625 {
626     /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
627         printf("write error to stdout\n");*/
628     replycode = LOGIN;
629 }
630 if(strncmp(rbuf,"257",3) == 0)
631 {
632     /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
633         printf("write error to stdout\n");*/
634     replycode = PATHNAME;
635 }
636 if(strncmp(rbuf,"226",3) == 0)
637 {
638     /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
639         printf("write error to stdout\n");*/
640     replycode = CLOSEDATA;
641 }
642 if(strncmp(rbuf,"250",3) == 0)
643 {
644     /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
645         printf("write error to stdout\n");*/
646     replycode = ACTIONOK;
647 }
648 if(strncmp(rbuf,"550",3) == 0)
649 {
650     replycode = 550;
651 }
652
653 // Ready to rename
654 if(strncmp(rbuf,"350",3) == 0)
655 {
656     bzero(wbuf,strlen(wbuf));
657     sprintf(wbuf,"RNT0 %s",newfilename);
658     write(sockfd,wbuf,newfilenameLen+6);
659     replycode = 350;
660 }
661
662 /*if(strncmp(rbuf,"150",3) == 0)
663 {
664     if(write(STDOUT_FILENO,rbuf,nread) != nread)
665         printf("write error to stdout\n");
666 }*/
667 //fprintf(stderr,"%d\n",1);
668 if(strncmp(rbuf,"227",3) == 0)
669 {
670     //printf("%d\n",1);
671     /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
672         printf("write error to stdout\n");*/
673
674     //获取服务器返回的 接收数据的端口, 和地址
675     int port1 = strtosrv(rbuf);
676     printf("%d\n",port1);
677     printf("%s\n",host);
678
679     //创建新的传输数据的套接字?
680     //1. 猜测 =====应该是将 ssl 接口放在这里, 用来传输数据
681     data_sock = cliopen(host,port1);
682
683
684
685 //bzero(rbuf,sizeof(rbuf));
686 //printf("%d\n",fd);
687 //if(strncmp(rbuf1,"ls",2) == 0)
688 if(tag == 2)
689 {
690     write(sockfd,"list\n",strlen("list\n"));

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```

691         ftp_list(data_sock);
692         /*if(write(STDOUT_FILENO,rbuf,nread) != nread)
693             printf("write error to stdout\n");*/
694
695     }
696     //else if(strncmp(rbuf1,"get",3) == 0)
697     else if(tag == 1)
698     {
699         //sprintf(wbuf,"%s","RETR\n");
700         //printf("%s\n",wbuf);
701         //int str = strlen(filename);
702         //printf("%d\n",str);
703         sprintf(wbuf,"RETR %s\n",filename);
704
705         //printf("%s\n",wbuf);
706         //int p = 5 + str + 1;
707
708         //命令套接字中写入 下载文件命令
709         write(sockfd,wbuf,strlen(wbuf));
710
711         //9.清空读缓冲区 和 写缓冲区
712         bzero(rbuf,strlen(rbuf));
713         //10.读套接字中的内容
714
715         if((nread = recv(sockfd,rbuf,MAXBUF,0)) < 0)
716             printf("recv error\n");
717
718         //printf("%s",rbuf);
719         if(strncmp(rbuf,"550",3) == 0)
720         {
721             replycode = 550;
722         }
723         // 如果有这个文件, 就下载
724         else{
725             ftp_get(data_sock,filename);
726         }
727         //printf("%d\n",write(sockfd,wbuf,strlen(wbuf)));
728         //printf("%d\n",p);
729
730         //下载文件
731
732     }
733     else if(tag == 3)
734     {
735         // 上传文件
736         sprintf(wbuf,"STOR %s\n",filename);
737         //printf("%s",wbuf);
738         int handle = open(filename,O_RDWR);
739         //printf("%s",wbuf);
740
741         //Handle file not exist error
742         if (handle != -1)
743         {
744             close(handle);
745             write(sockfd,wbuf,strlen(wbuf));
746             ftp_put(data_sock,filename);
747         }
748         else{
749             bzero(wbuf,strlen(wbuf));
750             printf("File not exist\n");
751             printf("%s",wbuf);
752         }
753         //int c_sock;
754
755
756
757     }
758     else if (tag == 4){
759         //sprintf(wbuf,"%s","PASV\n");
760         sscanf(rbuf1,"%s %s", tmp, filename);
761         //printf("%s\n", dirname);
762         int filenameLen= strlen(filename);
763         //if not, the final character will be the \000
764         filename[filenameLen] = '\n';
765         sprintf(wbuf,"DELE %s",filename);
766         write(sockfd,wbuf,nread+1);
767         //sprintf(wbuf1,"%s","CWD\n");

```

```
768
769         continue;
770     }
771     nwrite = 0;
772 }
773 /*if(strncmp(rbuf,"150",3) == 0)
774 {
775     if(write(STDOUT_FILENO,rbuf,nread) != nread)
776         printf("write error to stdout\n");
777 }*/
778 //printf("%s\n",rbuf);
779 if(write(STDOUT_FILENO,rbuf,nread) != nread)
780     printf("write error to stdout\n");
781
782
783 //如果该输密码了，让输入不可见
784 if (replycode == PASSWORD)
785 {
786     set_disp_mode(STDIN_FILENO,0);
787 }
788 else{
789     set_disp_mode(STDIN_FILENO,1);
790 }
791
792 /*else
793     printf("%d\n",-1);*/
794 }
795 }
796 }
```