

Sample Unix Session

A simple Unix session

- Log in
- create C program “reverse.c”
- compile program
- test the program (run it).
- send Dave email
- log out

Remote Access

- Sample session is using ttssh (A windows ssh client).
- Could be anything (a window on a RCS workstation, telnet, etc).

Logging in

Tera Term: New connection [X]

TCP/IP Host:

Service: Telnet TCP port#:
 SSH
 Other

Serial Port:

Logging In



The image shows a terminal window titled "Tera Term - 192.168.1.22 VT". The window has a menu bar with "File", "Edit", "Setup", "Control", "Window", and "Help". The terminal content displays the following text:

```
Red Hat Linux release 5.2 (Apollo)  
Kernel 2.0.36 on an i686  
login: hollingd  
Password: █
```

The terminal window includes a vertical scrollbar on the right side.

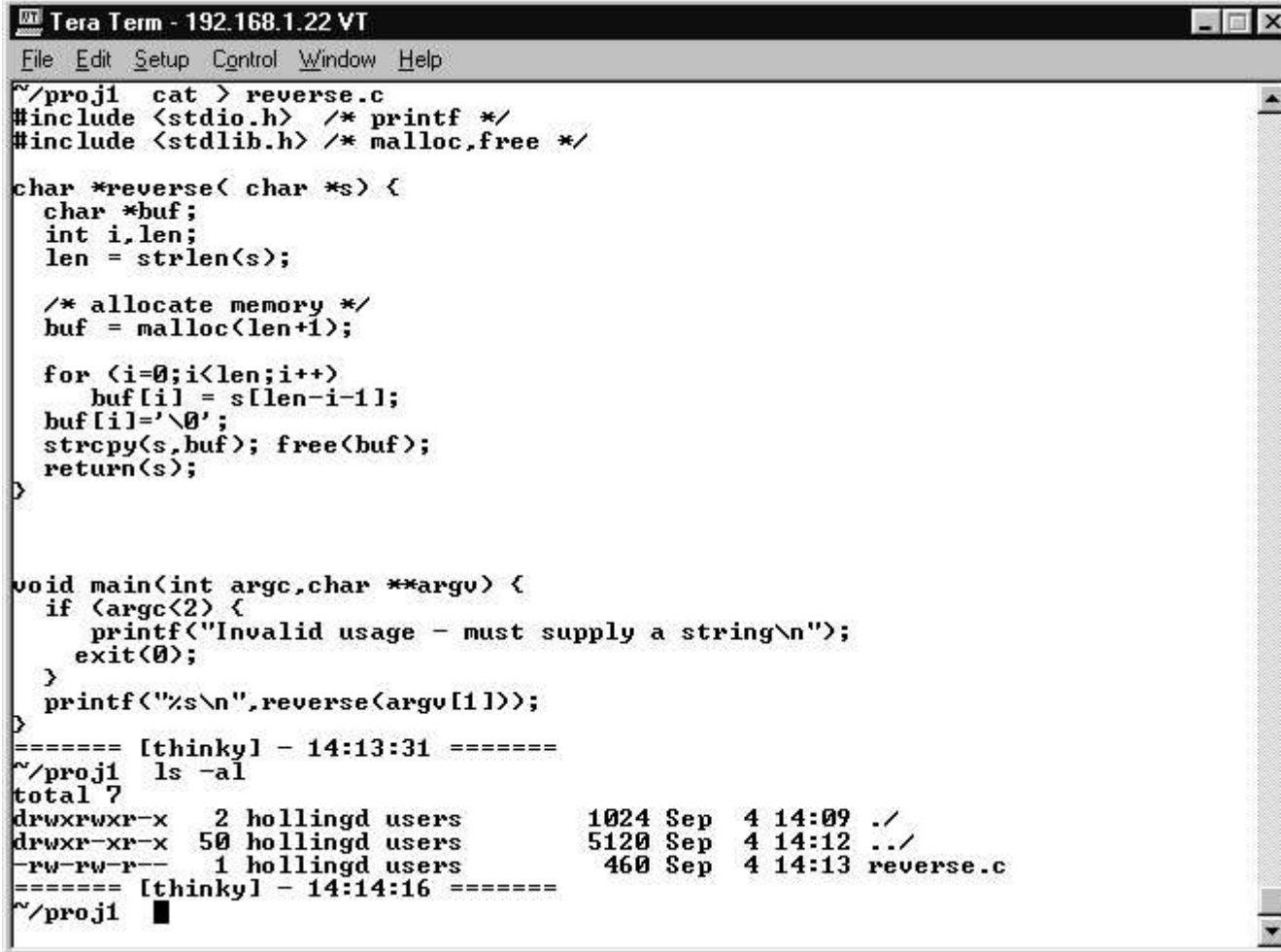
Creating a directory



```
Tera Term - 192.168.1.22 VT
File Edit Setup Control Window Help

Red Hat Linux release 5.2 (Apollo)
Kernel 2.0.36 on an i686
login: hollind
Password:
Last login: Mon Sep  4 14:07:28 from 192.168.1.1
===== [thinky] - 14:08:01 =====
~ mkdir comporg
mkdir: cannot make directory `comporg': File exists
===== [thinky] - 14:08:11 =====
~ mkdir proj1
===== [thinky] - 14:08:20 =====
~ cd proj1
===== [thinky] - 14:08:23 =====
~/proj1 ls
===== [thinky] - 14:08:30 =====
~/proj1
```

Creating a file (the hard way)



```
Tera Term - 192.168.1.22 VT
File Edit Setup Control Window Help
~/proj1 cat > reverse.c
#include <stdio.h> /* printf */
#include <stdlib.h> /* malloc,free */

char *reverse( char *s) {
    char *buf;
    int i,len;
    len = strlen(s);

    /* allocate memory */
    buf = malloc(len+1);

    for (i=0;i<len;i++)
        buf[i] = s[len-i-1];
    buf[i]='\0';
    strcpy(s,buf); free(buf);
    return(s);
}

void main(int argc,char **argv) {
    if (argc<2) {
        printf("Invalid usage - must supply a string\n");
        exit(0);
    }
    printf("%s\n",reverse(argv[1]));
}
===== [thinky] - 14:13:31 =====
~/proj1 ls -al
total 7
drwxrwxr-x  2 hollindg users    1024 Sep  4 14:09 ./
drwxr-xr-x  50 hollindg users    5120 Sep  4 14:12 ../
-rw-rw-r--  1 hollindg users     460 Sep  4 14:13 reverse.c
===== [thinky] - 14:14:16 =====
~/proj1 █
```

Compiling with gcc

```
Tera Term - 192.168.1.22 VT
File Edit Setup Control Window Help
===== [thinky] - 14:15:35 =====
~/proj1 ls -al
total 7
drwxrwxr-x  2 hollind users    1024 Sep  4 14:15 ./
drwxr-xr-x 50 hollind users    5120 Sep  4 14:12 ../
-rw-rw-r--  1 hollind users     460 Sep  4 14:13 reverse.c
===== [thinky] - 14:15:37 =====
~/proj1 gcc -o reverse reverse.c
===== [thinky] - 14:15:45 =====
~/proj1 ls -al
total 12
drwxrwxr-x  2 hollind users    1024 Sep  4 14:15 ./
drwxr-xr-x 50 hollind users    5120 Sep  4 14:12 ../
-rwxrwxr-x  1 hollind users    4693 Sep  4 14:15 reverse*
-rw-rw-r--  1 hollind users     460 Sep  4 14:13 reverse.c
===== [thinky] - 14:15:47 =====
~/proj1 ./reverse hidave
evadih
===== [thinky] - 14:15:53 =====
~/proj1 █
```

Sending email and logging out



```
Tera Term - 192.168.1.22 VT
File Edit Setup Control Window Help
===== [thinky] - 14:17:34 =====
~/proj1 mail hollingd@cs.rpi.edu
Subject: Success

Hi Dave - it worked! I love CompOrg!

      Joe Schmo

P.S. When can I drop off some cookies?

Cc: ===== [thinky] - 14:18:31 =====
~/proj1 exit
```