**CS3377.0W1 Week 6 Lab 1**

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**(Documentation with Terminal Log)**

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│ • MobaXterm 20.2 • │

│ (SSH client, X-server and networking tools) │

│ │

│ → SSH session to dtp180003@cslinux1.utdallas.edu │

│ • SSH compression : v │

│ • SSH-browser : v │

│ • X11-forwarding : v (remote display is forwarded through SSH) │

│ • DISPLAY : v (automatically set on remote server) │

│ │

│ → For more info, ctrl+click on help or visit our website │

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1. **Uncompress gzip file**

{cslinux1:~/cs3377} gunzip src.3e.tar.gz

**2. Unzip tar file (output trimmed)**

{cslinux1:~/cs3377} tar -xvf src.3e.tar

apue.3e/

apue.3e/advio/

apue.3e/daemons/

...

**3. Cd to apue.3e**

{cslinux1:~/cs3377} cd apue.3e/

**4. Make executables (output trimmed)**

{cslinux1:~/cs3377/apue.3e} make

for i in lib intro sockets advio daemons datafiles db environ fileio filedir ipc1 ipc2 proc pty relation signals standards stdio termios threadctl threads printer exercises; do \

(cd $i && echo "making $i" && make ) || exit 1; \

done

making lib

make[1]: Entering directory `/home/013/d/dt/dtp180003/cs3377/apue.3e/lib'

gcc -ansi -I../include -Wall -DLINUX -D\_GNU\_SOURCE -c -o bufargs.o bufargs.c

gcc -ansi -I../include -Wall -DLINUX -D\_GNU\_SOURCE -c -o cliconn.o cliconn.c

gcc -ansi -I../include -Wall -DLINUX -D\_GNU\_SOURCE -c -o clrfl.o clrfl.c

...

**6. Cd intro**

{cslinux1:~/cs3377/apue.3e} cd intro/

**7. Cat hello.c to see contents**

{cslinux1:~/cs3377/apue.3e/intro} cat hello.c

#include "apue.h"

int

main(void)

{

printf("hello world from process ID %ld\n", (long)getpid());

exit(0);

}

**8. run hello.c**

{cslinux1:~/cs3377/apue.3e/intro} ./hello

hello world from process ID 3956

**9. run shell1.c**

{cslinux1:~/cs3377/apue.3e/intro} ./shell1

% ls

getcputc hello ls1 Makefile mycat.c shell1.c shell2.c testerror.c uidgid.c

getcputc.c hello.c ls1.c mycat shell1 shell2 testerror uidgid

% ^C

{cslinux1:~/cs3377/apue.3e/intro}