Last login: Thu Sep 24 13:38:15 on ttys000

feiyan@Feiyans-MacBook-Air ~ % cd desktop

feiyan@Feiyans-MacBook-Air desktop % gunzip src.3e.tar.gz

feiyan@Feiyans-MacBook-Air desktop % tar -xvf src.3e.tar

x apue.3e/

x apue.3e/advio/

x apue.3e/daemons/

x apue.3e/datafiles/

x apue.3e/db/

x apue.3e/DISCLAIMER

x apue.3e/environ/

x apue.3e/exercises/

x apue.3e/figlinks/

x apue.3e/filedir/

x apue.3e/fileio/

x apue.3e/include/

x apue.3e/intro/

x apue.3e/ipc1/

x apue.3e/ipc2/

x apue.3e/lib/

x apue.3e/Make.defines.freebsd

x apue.3e/Make.defines.linux

x apue.3e/Make.defines.macos

x apue.3e/Make.defines.solaris

x apue.3e/Make.libapue.inc

x apue.3e/Makefile

x apue.3e/printer/

x apue.3e/proc/

x apue.3e/pty/

x apue.3e/README

x apue.3e/relation/

x apue.3e/signals/

x apue.3e/sockets/

x apue.3e/standards/

x apue.3e/stdio/

x apue.3e/systype.sh

x apue.3e/termios/

x apue.3e/threadctl/

x apue.3e/threads/

x apue.3e/threads/badexit2.c

x apue.3e/threads/barrier.c

x apue.3e/threads/cleanup.c

x apue.3e/threads/condvar.c

x apue.3e/threads/exitstatus.c

x apue.3e/threads/Makefile

x apue.3e/threads/maketimeout.c

x apue.3e/threads/mutex1.c

x apue.3e/threads/mutex2.c

x apue.3e/threads/mutex3.c

x apue.3e/threads/rwlock.c

x apue.3e/threads/threadid.c

x apue.3e/threads/timedlock.c

x apue.3e/threadctl/atfork.c

x apue.3e/threadctl/detach.c

x apue.3e/threadctl/getenv1.c

x apue.3e/threadctl/getenv2.c

x apue.3e/threadctl/getenv3.c

x apue.3e/threadctl/Makefile

x apue.3e/threadctl/suspend.c

x apue.3e/threadctl/timeout.c

x apue.3e/termios/csize.c

x apue.3e/termios/ctermid.c

x apue.3e/termios/getpass.c

x apue.3e/termios/isatty.c

x apue.3e/termios/Makefile

x apue.3e/termios/settty.c

x apue.3e/termios/t\_getpass.c

x apue.3e/termios/t\_isatty.c

x apue.3e/termios/t\_raw.c

x apue.3e/termios/t\_ttyname.c

x apue.3e/termios/ttyname.c

x apue.3e/termios/winch.c

x apue.3e/stdio/buf.c

x apue.3e/stdio/fgetsfputs.c

x apue.3e/stdio/getcharbug.c

x apue.3e/stdio/getcputc.c

x apue.3e/stdio/Makefile

x apue.3e/stdio/memstr.c

x apue.3e/stdio/mkstemp.c

x apue.3e/stdio/tempfiles.c

x apue.3e/standards/conf.c.modified

x apue.3e/standards/makeconf.awk

x apue.3e/standards/Makefile

x apue.3e/standards/makeopt.awk

x apue.3e/standards/pathconf-lim.sym

x apue.3e/standards/pathconf-opt.sym

x apue.3e/standards/sysconf-lim.sym

x apue.3e/standards/sysconf-opt.sym

x apue.3e/sockets/clconn.c

x apue.3e/sockets/clconn2.c

x apue.3e/sockets/findsvc.c

x apue.3e/sockets/initsrv1.c

x apue.3e/sockets/initsrv2.c

x apue.3e/sockets/makefile

x apue.3e/sockets/ruptime-dg.c

x apue.3e/sockets/ruptime.c

x apue.3e/sockets/ruptimed-dg.c

x apue.3e/sockets/ruptimed-fd.c

x apue.3e/sockets/ruptimed.c

x apue.3e/signals/abort.c

x apue.3e/signals/child.c

x apue.3e/signals/critical.c

x apue.3e/signals/Makefile

x apue.3e/signals/mask.c

x apue.3e/signals/read1.c

x apue.3e/signals/read2.c

x apue.3e/signals/reenter.c

x apue.3e/signals/setops.c

x apue.3e/signals/sigtstp.c

x apue.3e/signals/sigusr.c

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x apue.3e/signals/sleep2.c

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x apue.3e/signals/suspend2.c

x apue.3e/signals/system.c

x apue.3e/signals/systest2.c

x apue.3e/signals/tsleep2.c

x apue.3e/relation/Makefile

x apue.3e/relation/orphan3.c

x apue.3e/pty/driver.c

x apue.3e/pty/loop.c

x apue.3e/pty/main.c

x apue.3e/pty/Makefile

x apue.3e/proc/awkexample

x apue.3e/proc/echoall.c

x apue.3e/proc/exec1.c

x apue.3e/proc/exec2.c

x apue.3e/proc/fork1.c

x apue.3e/proc/fork2.c

x apue.3e/proc/Makefile

x apue.3e/proc/nice.c

x apue.3e/proc/pracct.c

x apue.3e/proc/pruids.c

x apue.3e/proc/system.c

x apue.3e/proc/systest1.c

x apue.3e/proc/systest3.c

x apue.3e/proc/tellwait1.c

x apue.3e/proc/tellwait2.c

x apue.3e/proc/test1.c

x apue.3e/proc/times1.c

x apue.3e/proc/vfork1.c

x apue.3e/proc/wait1.c

x apue.3e/printer/ipp.h

x apue.3e/printer/Makefile

x apue.3e/printer/print.c

x apue.3e/printer/print.h

x apue.3e/printer/printd.c

x apue.3e/printer/util.c

x apue.3e/lib/bufargs.c

x apue.3e/lib/cliconn.c

x apue.3e/lib/clrfl.c

x apue.3e/lib/daemonize.c

x apue.3e/lib/error.c

x apue.3e/lib/errorlog.c

x apue.3e/lib/lockreg.c

x apue.3e/lib/locktest.c

x apue.3e/lib/Makefile

x apue.3e/lib/nspipe.c

x apue.3e/lib/openmax.c

x apue.3e/lib/Orecvfd.c

x apue.3e/lib/pathalloc.c

x apue.3e/lib/popen.c

x apue.3e/lib/prexit.c

x apue.3e/lib/prmask.c

x apue.3e/lib/ptyfork.c

x apue.3e/lib/ptyopen.c

x apue.3e/lib/readn.c

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x apue.3e/lib/signal.c

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x apue.3e/lib/strerror.c

x apue.3e/lib/tellwait.c

x apue.3e/lib/ttymodes.c

x apue.3e/lib/writen.c

x apue.3e/ipc2/bindunix.c

x apue.3e/ipc2/Makefile

x apue.3e/ipc2/open/

x apue.3e/ipc2/open.fe/

x apue.3e/ipc2/opend/

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x apue.3e/ipc2/pollmsg.c

x apue.3e/ipc2/recvfd2.c

x apue.3e/ipc2/sendfd2.c

x apue.3e/ipc2/sendmsg.c

x apue.3e/ipc2/opend.fe/cliargs.c

x apue.3e/ipc2/opend.fe/main.c

x apue.3e/ipc2/opend.fe/Makefile

x apue.3e/ipc2/opend.fe/opend.h

x apue.3e/ipc2/opend.fe/request.c

x apue.3e/ipc2/opend/cliargs.c

x apue.3e/ipc2/opend/client.c

x apue.3e/ipc2/opend/loop.poll.c

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x apue.3e/ipc1/add2.c

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x apue.3e/ipc1/devzero.c

x apue.3e/ipc1/Makefile

x apue.3e/ipc1/myuclc.c

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x apue.3e/ipc1/pipe4.c

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x apue.3e/ipc1/slock.h

x apue.3e/ipc1/tellwait.c

x apue.3e/ipc1/tshm.c

x apue.3e/intro/getcputc.c

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x apue.3e/exercises/getlogin.c

x apue.3e/exercises/getpw44bsd.c

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x apue.3e/exercises/goodexit.c

x apue.3e/exercises/longpath.c

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x apue.3e/environ/Makefile

x apue.3e/environ/opendata.c

x apue.3e/environ/scope.c

x apue.3e/environ/testjmp.c

x apue.3e/db/apue\_db.h

x apue.3e/db/db.c

x apue.3e/db/Makefile

x apue.3e/db/t4.c

x apue.3e/datafiles/getpwnam.c

x apue.3e/datafiles/Makefile

x apue.3e/datafiles/strftime.c

x apue.3e/daemons/init.c

x apue.3e/daemons/Makefile

x apue.3e/daemons/reread.c

x apue.3e/daemons/reread2.c

x apue.3e/daemons/single.c

x apue.3e/advio/deadlock.c

x apue.3e/advio/fixup.awk

x apue.3e/advio/lockfile.c

x apue.3e/advio/Makefile

x apue.3e/advio/mandatory.c

x apue.3e/advio/mcopy2.c

x apue.3e/advio/nonblockw.c

x apue.3e/advio/readn.c

x apue.3e/advio/rot13a.c

x apue.3e/advio/rot13c2.c.in

x apue.3e/advio/writen.c

feiyan@Feiyans-MacBook-Air desktop % cd apue.3e

feiyan@Feiyans-MacBook-Air 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" && /Applications/Xcode.app/Contents/Developer/usr/bin/make ) || exit 1; \

done

making lib

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o bufargs.o bufargs.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o cliconn.o cliconn.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o clrfl.o clrfl.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o daemonize.o daemonize.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o error.o error.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o errorlog.o errorlog.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o lockreg.o lockreg.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o locktest.o locktest.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o openmax.o openmax.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o pathalloc.o pathalloc.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o popen.o popen.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o prexit.o prexit.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o prmask.o prmask.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ptyfork.o ptyfork.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ptyopen.o ptyopen.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o readn.o readn.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o recvfd.o recvfd.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o senderr.o senderr.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o sendfd.o sendfd.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o servaccept.o servaccept.c

servaccept.c:26:40: warning: sizeof on pointer operation will return size of

'char \*' instead of 'char [104]' [-Wsizeof-array-decay]

if ((name = malloc(sizeof(un.sun\_path + 1))) == NULL)

~~~~~~~~~~~ ^

1 warning generated.

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o servlisten.o servlisten.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o setfd.o setfd.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o setfl.o setfl.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o signal.o signal.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o signalintr.o signalintr.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o sleepus.o sleepus.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o spipe.o spipe.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o tellwait.o tellwait.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ttymodes.o ttymodes.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o writen.o writen.c

ar rv libapue.a bufargs.o cliconn.o clrfl.o daemonize.o error.o errorlog.o lockreg.o locktest.o openmax.o pathalloc.o popen.o prexit.o prmask.o ptyfork.o ptyopen.o readn.o recvfd.o senderr.o sendfd.o servaccept.o servlisten.o setfd.o setfl.o signal.o signalintr.o sleepus.o spipe.o tellwait.o ttymodes.o writen.o

ar: creating archive libapue.a

a - bufargs.o

a - cliconn.o

a - clrfl.o

a - daemonize.o

a - error.o

a - errorlog.o

a - lockreg.o

a - locktest.o

a - openmax.o

a - pathalloc.o

a - popen.o

a - prexit.o

a - prmask.o

a - ptyfork.o

a - ptyopen.o

a - readn.o

a - recvfd.o

a - senderr.o

a - sendfd.o

a - servaccept.o

a - servlisten.o

a - setfd.o

a - setfl.o

a - signal.o

a - signalintr.o

a - sleepus.o

a - spipe.o

a - tellwait.o

a - ttymodes.o

a - writen.o

ranlib libapue.a

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o sleep.o sleep.c

making intro

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE getcputc.c -o getcputc -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE hello.c -o hello -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE ls1.c -o ls1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE mycat.c -o mycat -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE shell1.c -o shell1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE shell2.c -o shell2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE testerror.c -o testerror -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE uidgid.c -o uidgid -L../lib -lapue

making sockets

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ruptime.o ruptime.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o clconn2.o clconn2.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o ruptime ruptime.o clconn2.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ruptimed.o ruptimed.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o initsrv2.o initsrv2.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o ruptimed ruptimed.o initsrv2.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ruptimed-fd.o ruptimed-fd.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o ruptimed-fd ruptimed-fd.o initsrv2.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ruptimed-dg.o ruptimed-dg.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o ruptimed-dg ruptimed-dg.o initsrv2.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE findsvc.c -L../lib -lapue -o findsvc

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE ruptime-dg.c -L../lib -lapue -o ruptime-dg

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o clconn.o clconn.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o initsrv1.o initsrv1.c

making advio

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE deadlock.c -o deadlock -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE mandatory.c -o mandatory -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE mcopy2.c -o mcopy2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE nonblockw.c -o nonblockw -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE rot13a.c -o rot13a -L../lib -lapue

./fixup.awk rot13a.c >xlate

sed '/same/q' rot13c2.c.in >rot13c2.c

cat xlate >>rot13c2.c

sed '1,/same/d' rot13c2.c.in >>rot13c2.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE rot13c2.c -o rot13c2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o lockfile.o lockfile.c

making daemons

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o init.o init.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o reread.o reread.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o reread2.o reread2.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o single.o single.c

making datafiles

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE strftime.c -o strftime -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o getpwnam.o getpwnam.c

making db

gcc -fPIC -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c db.c

gcc -shared -Wl,-dylib -o libapue\_db.so.1 -L../lib -lapue -lc db.o

ln -s libapue\_db.so.1 libapue\_db.so

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -I. t4.c

gcc -R. -o t4 t4.o -L../lib -L. -lapue\_db -lapue

ar rsv libapue\_db.a db.o

ar: creating archive libapue\_db.a

a - db.o

ranlib libapue\_db.a

making environ

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE doatexit.c -o doatexit -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE echoarg.c -o echoarg -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE getrlimit.c -o getrlimit -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE hello1.c -o hello1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE testjmp.c -o testjmp -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o opendata.o opendata.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o scope.o scope.c

making fileio

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE fileflags.c -o fileflags -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE hole.c -o hole -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE mycat.c -o mycat -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE seek.c -o seek -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o setfl.o setfl.c

making filedir

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE access.c -o access -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE cdpwd.c -o cdpwd -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE changemod.c -o changemod -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE devrdev.c -o devrdev -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE filetype.c -o filetype -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE mycd.c -o mycd -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE umask.c -o umask -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE unlink.c -o unlink -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE ftw8.c -o ftw8 -L../lib -lapue

making ipc1

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE add2.c -o add2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE add2stdio.c -o add2stdio -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE devzero.c -o devzero -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE myuclc.c -o myuclc -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE pipe1.c -o pipe1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE pipe2.c -o pipe2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE pipe4.c -o pipe4 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE popen1.c -o popen1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE popen2.c -o popen2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE tshm.c -o tshm -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o popen.o popen.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o slock.o slock.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o tellwait.o tellwait.c

making ipc2

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE bindunix.c -o bindunix -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE pollmsg.c -o pollmsg -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE sendmsg.c -o sendmsg -L../lib -lapue

for i in open opend open.fe opend.fe; do \

(cd $i && /Applications/Xcode.app/Contents/Developer/usr/bin/make ) || exit 1; \

done

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o main.o main.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o open.o open.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o openclient main.o open.o -L../../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o main.o main.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o request.o request.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o cliargs.o cliargs.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o client.o client.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o loop.poll.o loop.poll.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o opend.poll main.o cliargs.o client.o request.o loop.poll.o \

-L../../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o loop.select.o loop.select.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o opend.select main.o cliargs.o client.o request.o loop.select.o \

-L../../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o main.o main.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o open.o open.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o openclient main.o open.o -L../../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o main.o main.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o request.o request.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o cliargs.o cliargs.c

gcc -ansi -I../../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o opend main.o cliargs.o request.o -L../../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

making proc

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE echoall.c -o echoall -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE exec1.c -o exec1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE exec2.c -o exec2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE fork1.c -o fork1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE fork2.c -o fork2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE nice.c -o nice -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE pruids.c -o pruids -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE tellwait1.c -o tellwait1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE tellwait2.c -o tellwait2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE test1.c -o test1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE times1.c -o times1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE vfork1.c -o vfork1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE wait1.c -o wait1 -L../lib -lapue

wait1.c:31:10: warning: division by zero is undefined [-Wdivision-by-zero]

status /= 0; /\* divide by 0 g...

^ ~

1 warning generated.

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o system.o system.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o systest1.o systest1.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o systest1 systest1.o system.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o systest3.o systest3.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o systest3 systest3.o system.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -DHAS\_AXSIG -DHAS\_ACORE -o pracct pracct.c -L../lib -lapue

making pty

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o main.o main.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o loop.o loop.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o driver.o driver.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o pty main.o loop.o driver.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

making relation

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE orphan3.c -o orphan3 -L../lib -lapue

making signals

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE critical.c -o critical -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE mask.c -o mask -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE read1.c -o read1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE read2.c -o read2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE reenter.c -o reenter -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE sigtstp.c -o sigtstp -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE sigusr.c -o sigusr -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE suspend1.c -o suspend1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE suspend2.c -o suspend2 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o systest2.o systest2.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o system.o system.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o systest2 systest2.o system.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o tsleep2.o tsleep2.c

tsleep2.c:31:4: warning: variable 'k' is uninitialized when used here

[-Wuninitialized]

k += i \* j;

^

tsleep2.c:22:16: note: initialize the variable 'k' to silence this warning

volatile int k;

^

= 0

1 warning generated.

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o sleep2.o sleep2.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o tsleep2 tsleep2.o sleep2.o -L../lib -lapue

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o abort.o abort.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o sleep1.o sleep1.c

making standards

grep -v "^#" sysconf-lim.sym >sysconf.sym

grep -v "^#" pathconf-lim.sym >pathconf.sym

awk -f makeconf.awk >conf.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE conf.c -o conf -L../lib -lapue

grep -v "^#" sysconf-opt.sym >sysopt.sym

grep -v "^#" pathconf-opt.sym >pathopt.sym

awk -f makeopt.awk >options.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE options.c -o options -L../lib -lapue

making stdio

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE buf.c -o buf -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE fgetsfputs.c -o fgetsfputs -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE getcharbug.c -o getcharbug -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE getcputc.c -o getcputc -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE mkstemp.c -o mkstemp -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE tempfiles.c -o tempfiles -L../lib -lapue

making termios

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE csize.c -o csize -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE settty.c -o settty -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE t\_getpass.c -o t\_getpass -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE t\_isatty.c -o t\_isatty -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE t\_raw.c -o t\_raw -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE t\_ttyname.c -o t\_ttyname -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE winch.c -o winch -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ctermid.o ctermid.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o getpass.o getpass.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o isatty.o isatty.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o ttyname.o ttyname.c

making threadctl

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE atfork.c -o atfork -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE suspend.c -o suspend -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o detach.o detach.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o getenv1.o getenv1.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o getenv2.o getenv2.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o getenv3.o getenv3.c

making threads

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE badexit2.c -o badexit2 -L../lib -lapue -pthread

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE cleanup.c -o cleanup -L../lib -lapue -pthread

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE exitstatus.c -o exitstatus -L../lib -lapue -pthread

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE threadid.c -o threadid -L../lib -lapue -pthread

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o condvar.o condvar.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o maketimeout.o maketimeout.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o mutex1.o mutex1.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o mutex2.o mutex2.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o mutex3.o mutex3.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o rwlock.o rwlock.c

making printer

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o print.o print.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o util.o util.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o print print.o util.o ../sockets/clconn2.o -L../lib -L../lib -lapue -pthread

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o printd.o printd.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -o printd printd.o util.o ../sockets/clconn2.o ../sockets/initsrv2.o \

-L../lib -L../lib -lapue -pthread

clang: warning: argument unused during compilation: '-ansi' [-Wunused-command-line-argument]

making exercises

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE bo.c -o bo -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE fifo1.c -o fifo1 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE getlogin.c -o getlogin -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE goodexit.c -o goodexit -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE longpath.c -o longpath -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE pendlock.c -o pendlock -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE prtime.c -o prtime -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE sizepipe.c -o sizepipe -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE vfork3.c -o vfork3 -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE zombie.c -o zombie -L../lib -lapue

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o asyncsocket.o asyncsocket.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o fmemopen.o fmemopen.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o openmax.o openmax.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o sleep.o sleep.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o sleepus\_poll.o sleepus\_poll.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE -c -o sleepus\_select.o sleepus\_select.c

gcc -ansi -I../include -Wall -DMACOS -D\_DARWIN\_C\_SOURCE getpw44bsd.c -o getpw44bsd -L../lib -lapue

feiyan@Feiyans-MacBook-Air apue.3e % cd intro

feiyan@Feiyans-MacBook-Air intro % cat hello.c

#include "apue.h"

int

main(void)

{

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

exit(0);

}

feiyan@Feiyans-MacBook-Air intro % ./hello

hello world from process ID 44893

feiyan@Feiyans-MacBook-Air intro % ./shell1

% ls

Makefile hello.c mycat.c shell2.c uidgid.c

getcputc ls1 shell1 testerror

getcputc.c ls1.c shell1.c testerror.c

hello mycat shell2 uidgid

% ^C

feiyan@Feiyans-MacBook-Air intro % cd -

~/desktop/apue.3e

feiyan@Feiyans-MacBook-Air apue.3e % cd figlinks

feiyan@Feiyans-MacBook-Air figlinks % gcc -o output `readlink fig1.3` -I /Users/feiyan/Desktop/apue.3e/include -L /Users/feiyan/Desktop/apue.3e/lib/ -lapue

feiyan@Feiyans-MacBook-Air figlinks % ./output

usage: ls directory\_name

feiyan@Feiyans-MacBook-Air figlinks %