## CS-701 Lecture 13

March 15, 2001

# The *quit* and *print* Commands

- *quit* is the same as *exit* except it must be entered with no command line arguments.
- *print* prints its arguments, all on one line, and returns the number of arguments it printed.

## **Printing Error Messages**

fprintf( stderr,

"%s: this is an error message\n", argv[0]);

- Redirecting the standard error stream
  - (t)csh: ls junk >& /dev/null
  - (ba|k)sh: ls junk  $2 > \frac{\text{dev/null}}{\text{ull}}$ 
    - ls > out 2 > &1

## Using makedepend

- makedepend interprets all preprocessor directives to determine what header files are referenced by .c or .cc files, and generates dependency lines for your Makfile
  - Follows nested #includes, which isn't always what you want.

#### makedepend -Y \*.cc

- Makefile must be writeable; header file dependencies will be put at the and of it after a line that says, "# DO NOT DELETE ..."
- The *depend* target:

#### depend:

#### <tab>makedepend -Y \$(SRCS)

- "What's \$(SRCS)?" I hear you ask ...

# Generating Variable Values

• In a Makefile:

SRCS= main.cc builtins.cc

OB JS = (SRCS:.cc=.o)

- Now \$(OBJS) is "main.o builtins.o"
- Only need to update one line in Makefile when adding a new source file to the project.