continued

ex. # undef SQUARE / undefine SQUARE*/

From 3) conditional inclusion eq. #if 0

> # endif # else if x == 1 # elif x == 2

eq. Macros example # define OTHER 3 # define DOS 1 #define UNIX 2

Calling this function "

int main (void) { #if OS == DOS

acc -ansi -W - Wall - pedantic -DOS = DOS clear c nospaces

#elif OS == UNIX

Helse OS == OTHER

end if

We can also do:

#if defined (OS)

... / if os is defined / gcc - Dos

endif

if ! defined (OS) / if OS is not defined */ #ifndef

end if

eq. #ifdef DEBUG

fprintf (stderr, " ");

endif

... Lecture 25 #ifndef LINESIZE eq. #define LINESIZE 1024 /* give LINESIZE = default value of 1024 */ # end if Can override it using qcc - DLINESIZE = \$12 Include quards: #include <stdioh> (is stdio.h included twice ?? #include (stdio.h) No, include guads prevent a header file from being read in & or included more than once. /* save. h. */ # ifndef SORT_H 1st time 'SORT H is not defined yet, # define SORT_H ~ - vit proceeds to define it. /*prototypes go here */ Next time we # include "sort.h" SORT_H is already define and is skipped stringize

allows us the continuation of the statement to the next line

define (HECK (PRED) printf ("%s ... %s/n", (PRED)?"passed":"fail,") # PRED)

Converts PRED to String

... Lecture 25

> Static has 2 meanings: 1) A static local variable : lives through whole program 2) A static global variable: has static linkage external function Static local variable int f (void) { $f() \sim 1$ $f() \sim 2$ static int n; f() ~3 return ++n; -> Static local variable are automatically initialized to \$ int g (void) 1 of g(void) f(void) freturn n++; > Static Linkage - a function or an external variable has static linkage if it cannot be linked from another file.

/*file 1. c*/
#include (stdio. h)

int main (void) {

printf ("%d\n", square (1));

return 0;

3

continued...

... Lecture 25

compile statements cont ...

gcc -ansi -W - Wall - pedantic -c file 1.c gcc -ansim -W - Wall - pedantic -c file 2.c

Link them together via: (object files)
gcc file 1. o file 2. o

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return net;

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