CSE 430: Operating Systems

Class: 03

Date: 131

Fall 2015
(Keyboards, mouse, etc.)

- other peripherals
- track
- file
- time
- assessed to as

by device

- interfaces are generalized
I. V. some \( P + 3 \)

Local value form

push \( P + 5 \)
exce check

eof current
stop executing after

def some \( P + 3 \)
int happens

1. RTI

2. Continue execution from interrupt

3. Pop PS, pop PC

4. PC returns from interrupt

PC & PS pushed on current stack
Software Interrupts or Traps

SWI (inted) in

SWI n is simulated

-Same semantics as.hwr int

-generated using SWI instruction
to user mode

2 All ese of each

new user mode

3 Push ES, Load PS

run main

Setup Application

Interrupt handler

mode bit is set to 1
CPU

Base reg

Register

Bus

OS

User vecm

Memory protection

x

y

z

a

app

x

y

z

x

y

z

a
return (temp);

my $θ = $temp

my $C = 20

my $R = 80

my $L = 110

my $G = 20

my $avg = $C

my $avg2 = $R

while ($avg >= 2) {
  $avg = $avg2
  $avg2 = $R
}

$avg (any 1, avg2)
Syscall handler ()

2 switch RD

0: 

1: 

2: RD = write (R1, R2)

RTI

function in the OS kernel
\texttt{write (R_1, R_2)}

\texttt{? user data from R_1 \& R_2 to move things into protected devices via device drivers}

\texttt{3}
An OS is a set of programs...
Context switches & timers