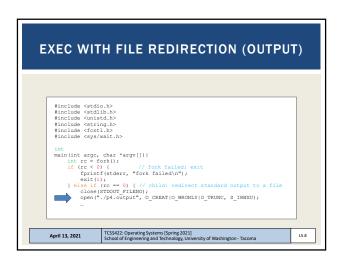
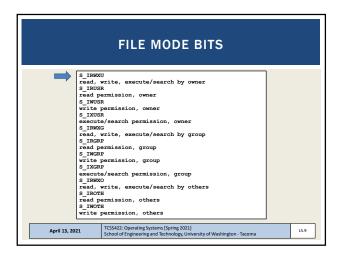
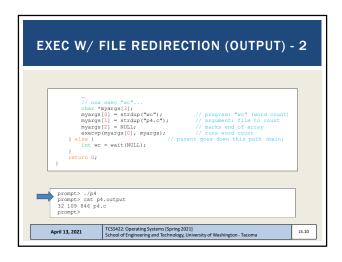


FEEDBACK - 2 What are the advantages of using lower-level APIs such as open() compared to the specialized versions with additional features like fopen()? Is this similar to the control tradeoff? Introducing unnecessary overhead and the like? • fopen() and other functions like it are provided largely out of convenience for developers Specialized wrappers such as fopen() abstract additional functionality to make it more easily accessible for programmers With the use of standard out and standard error when EXEC with file redirection, I'm still not sure about the steps from L4.30 TCSS422: Operating Systems [Spring 2021] School of Engineering and Technology, University of Washington - Tacoma April 13, 2021 L5.7





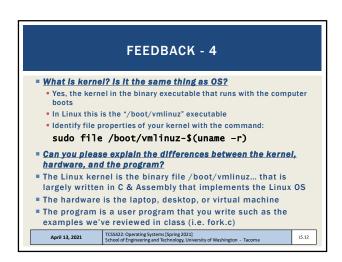


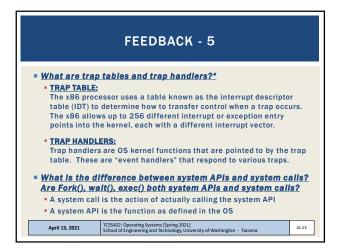
```
FEEDBACK - 3

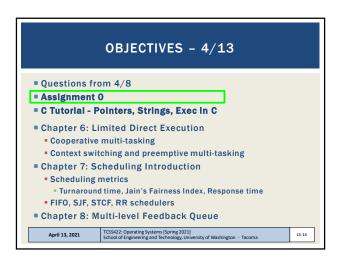
Do system calls and traps execute with limited direct execution?
These are privileged operations that are executed in the kernel, with direct execution.

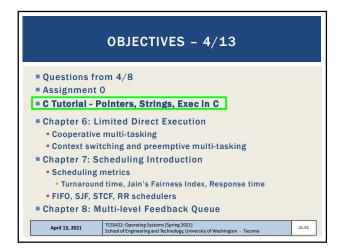
In layman operating systems like Windows and IOS, what processes are already trusted? How difficult is it to make other processes trusted for the purposes of LDE?"
User processes by default are not trusted
They run with Limited Direct Execution
Only operating system kernel code is trusted
In Linux this can be the kernel itself of kernel modules

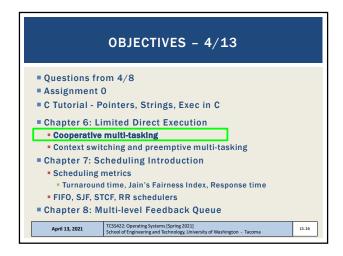
TCS422: Operating Systems [Spring 2021]
School of Engineering and Technology, University of Washington - Tacoma
```

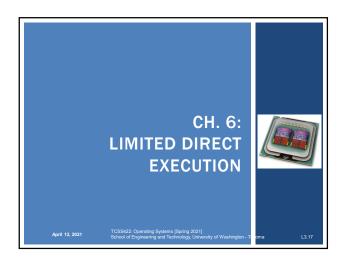


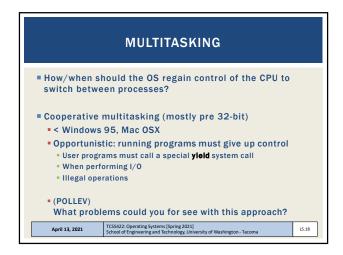


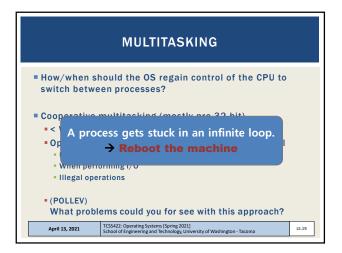


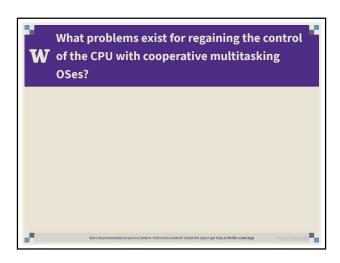


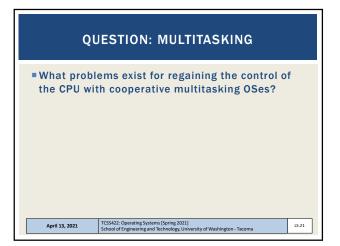


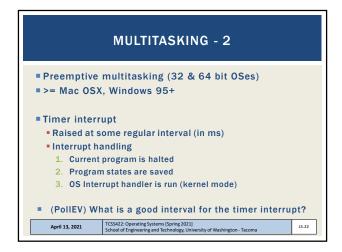


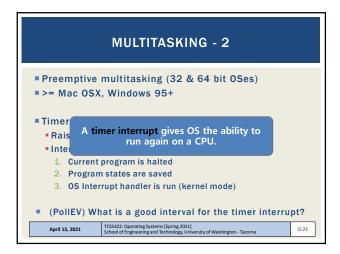


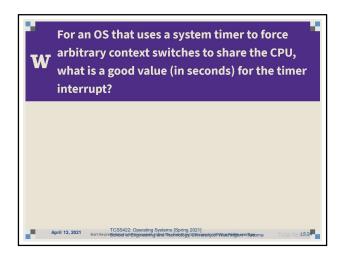


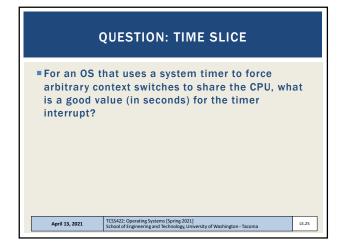


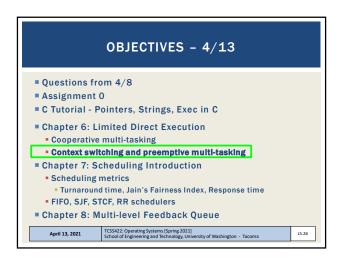




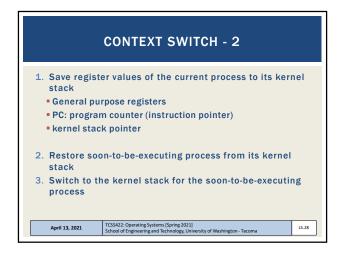


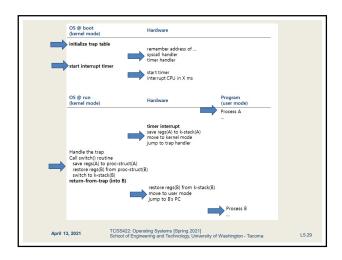


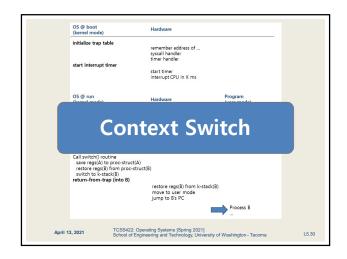


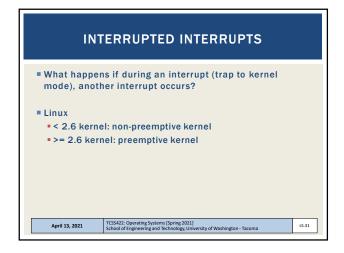


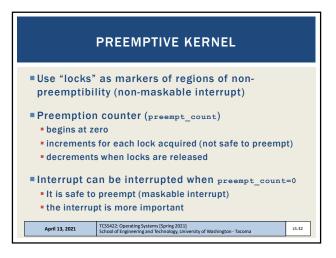
CONTEXT SWITCH Preemptive multitasking initiates "trap" into the OS code to determine: Whether to continue running the current process, or switch to a different one. If the decision is made to switch, the OS performs a context switch swapping out the current process for a new one. April 13, 2021 TCSS42: Operating Systems [Spring 2021] School of Engineering and Technology, University of Washington - Tacoma 15.27



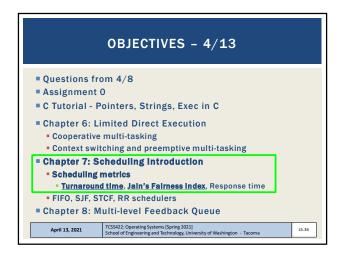


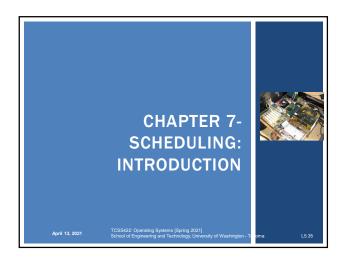


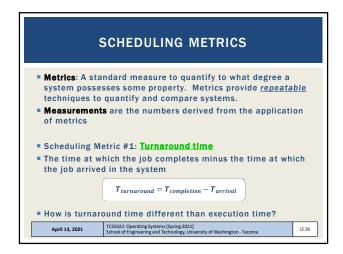


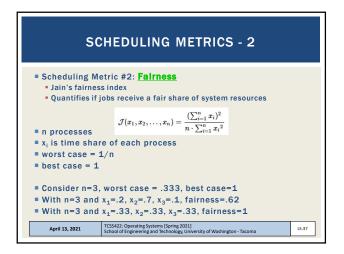


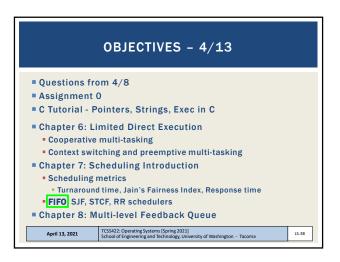


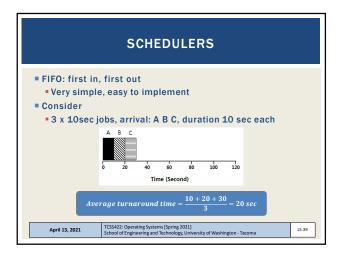


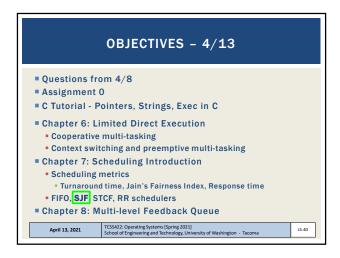


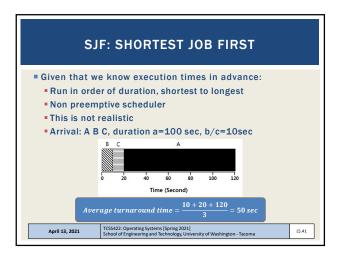


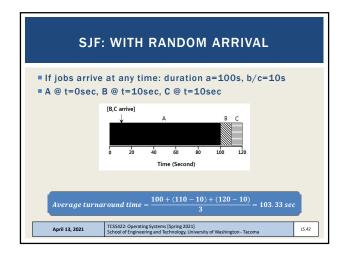


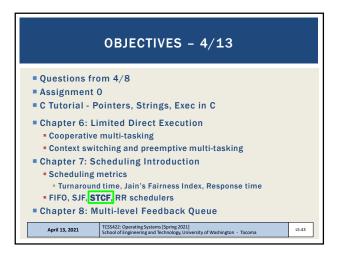


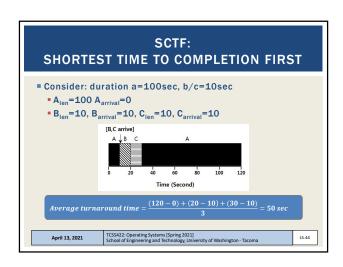










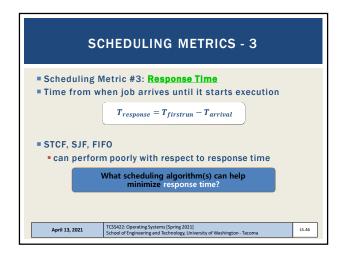


OBJECTIVES - 4/13

Questions from 4/8
Assignment 0
C Tutorial - Pointers, Strings, Exec in C
Chapter 6: Limited Direct Execution
Cooperative multi-tasking
Context switching and preemptive multi-tasking
Chapter 7: Scheduling Introduction
Scheduling metrics
Turnaround time, Jain's Fairness Index, Response time
FIFO, SJF, STCF, RR schedulers
Chapter 8: Multi-level Feedback Queue

April 13, 2021

CSS422: Operating Systems (Spring 2021)
School of Engineering and Technology, University of Washington - Tacoma



OBJECTIVES - 4/13

Questions from 4/8

Assignment 0

C Tutorial - Pointers, Strings, Exec in C

Chapter 6: Limited Direct Execution

Cooperative multi-tasking

Context switching and preemptive multi-tasking

Chapter 7: Scheduling Introduction

Scheduling metrics

Turnaround time, Jain's Fairness Index, Response time

FIFO, SJF, STCF, RR schedulers

Chapter 8: Multi-level Feedback Queue

April 13, 2021

TCSS422: Operating Systems [Spring 2021]
School of Engineering and Technology, University of Washington - Tacoma

