CSE 330: Operating Systems

Class: 08

Date: 9/13

Fall 2016

Note Title

himans

Lastivity + stack + shaved
Chrent of (private mem
control) memory) from

Starting a through 1) foste (not unix forte) precedance happens after X Start thread, createthread

The par conshed S2; S3. 3:

Threado & the Kernel

3 fc) { system call problem with threado...

Coduce to showed date.) Vace conditions s due to read-write Conflicto write-write Conflicto

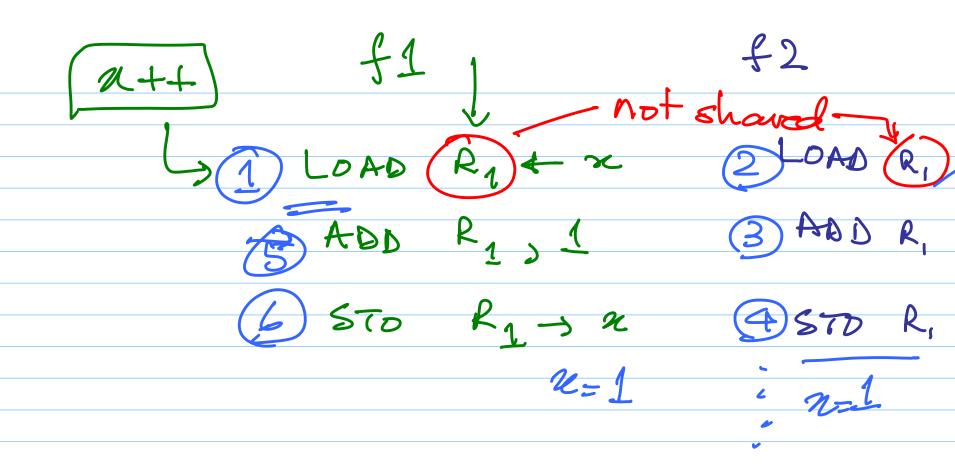
f2() { G1() Sunt x. x=5 2=7 3 Value of 22? Both 5, and 7 ave correct.

g sove serial execution

from forduces

from Sawe

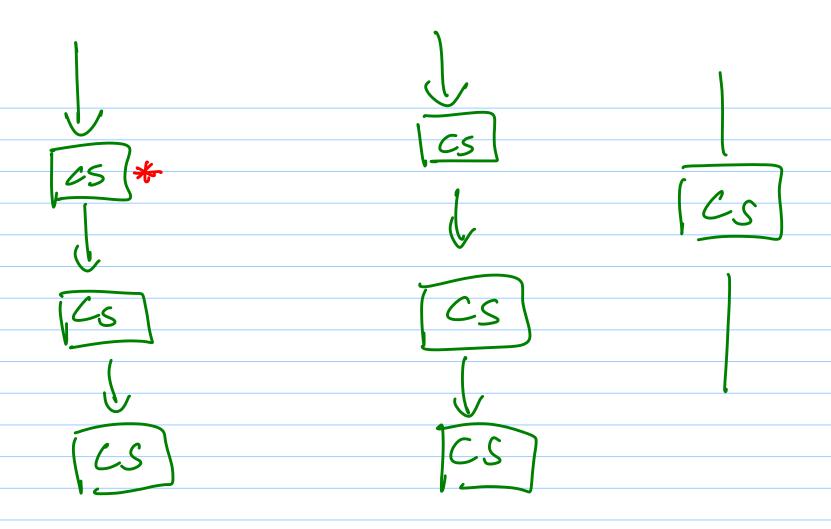
versub:



2++ make these atomic

2-process (thread) Critical Section problem. Critical Section Simultaneously

properties of critical sections 1) mutual exclusion (mutes) when a process (thread) is executing in a C.S. no other process many execute inside



· Progress

- if a process wents to enter
a critical section it must
be allowed to enter of the
Section is not in use....

Bounded wasting -> if a process wents to entry or CS it must no other process can be allowed to enter the CS more than N times. Thised

2 process software solution

- Early section

- Exit Soction

flag > 0, 1 initially 0 eatry section, while (flag==1);
flag=1 exit section - s flag=0

flag[i] = 1 $stile(flag Cj] = = 1) \begin{cases} flag=0 \\ flag=1 \end{cases}$ CS

flag[i]=0

fly GJ-0