Assignment 8

Priorites for tasks T1, T2, and T3 are as follows: $P_{T3} > P_{T2} > P_{T1}$ T1 and T3 make use of shared resource 1 (SR1) T2 and T3 make use of shared resource 2 (SR2) Assume Round-Robin scheduling

 $\bar{\mathbf{x}}$ T3 takes SR1 T2 takes SR2 T1 blocked T3 blocked because it because it wants SR1 wants SR2 1)After T3 is blocked, what happens after T2's normal timeslot is completed? The leeps running until it releases 522 allowing T3 to run during the next available time clot

2) Over what time interval is there unbounded priority inversion in the above diagram. never 3) Does Priority Inheritance Protocol solve the unbounded priority inversion problem here?, Why? no, he cause only TZ can run anyway when the other tasks are blocked

4) If T3 also takes SR2 when it took SR1 above, explain what Priority Ceiling Protocol would do for you. 4) If T3 also takes SR2 when it took SK1 above, explain what I norm, some of the phecause Tl and TL are blocked from running anyway of while waiting for SRl and SRL to be released, so suspension of tasks 5) In question 4, what would k make a difference if T3's priority was less than the other two tasks? Why? solves nothing exart again, it doesn't help particularly because Tland TZ are still blocked till spland skr are released. There can be no deadlock in either case.

obes help by

1) removes deallock possibility

2) grest3 lighest priority to run