

Notes in ECEN 5623

Zachary Vogel

February 23, 2016

Announce

quiz on Thursday
read chapter 7 for thursday.
homework 2 due tomorrow
quiz 2

Lecture

With Anurag
Tim is gone somewhere

interrupts that call services
blocking vs interference:
interference is just simply a lower priority thread getting preempted.
blocking is when your thread or process is waiting on a resource.

Dm sufficient feasibility:

$$\frac{C_i}{D_i} + \frac{I_i}{D_i} < 1.0$$

Blocking types:
bounded: take into consideration in execution times
unbounded: can't take into account.

deadlock and priority inversion.

deadlock: unbounded

watchdog timer: hardware which needs to be reset, look it up

unbounded blocking is the real problem

this is what we get when task a wants sem x and task b wants sem y.

other situation is priority inversion.
priorities getting inverted because the higher priority task depends on the lower one.
need 3 or more for this to happen.