Notes in ECEN 5623

Zachary Vogel

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Lecture

read chapter 12 sections 6-11

form groups today for EX 5,6 and Final Project 3/21-25 Spring Break! 3/29 Exercise 4 4/5 Exercise 5

proposal is the core part of exercise 5.

Lecture

ICT, IOT, OR, NOA, Di, CPI

Message Queues
Provide communication and synchronization
traditional message queue
meassage size, internal fragmentation
heap message queue
messages are pointers
message data in heap

nice thing is that once in the queue it can be seen and used atomically. parallel processing speed up

Amdahl's law - speed up with # of cores and parallel portion. That's all for the I/O session.

Now we will talk more about implementation. still grading exam 1 exercise 4 is last practice oriented 1 exercise 5 is to do the in-depth project description exercise 6 will be to complete the project

BUS I/O

VME and PCI busses VME=(VESA MOdule Expansion) expansion on another bus PCI= peripheral component interconnect VME is a syncrhonous so you just have handshaking protocols PCI has a synch clock Bus arbitration built-in. PCI also has bridging ability.