

## CSET2200 Lecture 8

Review/Questions

## Quick review of packet moving

## CIDR

- ▶ CClassless Inter-domain Routing

## The problem

- ▶ Classful networks wasteful
- ▶ Aggregation was poor
- ▶ Route bloat
- ▶ Limited big networks

## Example - UT

## How to solve it

- ▶ Allow segmenting network on any bit
- ▶ Allow grouping of networks (aggregation)
- ▶ Allocation of smaller networks

## VLSM

- ▶ Variable length subnet mask
- ▶ Allows networks to be sized differently
- ▶ Core concept of CIDR

## Available Networks

## Aggregation

- ▶ Adjacent networks can be combined where distinction not needed
- ▶ Allows more efficient routing
- ▶ Large blocks allocated to providers which split them

## Example - UT Again

## Matching Networks

- ▶ Done with Bitwise AND
- ▶ Network to match AND subnet - network to match
- ▶ Remember 1 is our care bit

## Examples

- ▶ 64.254.140.4/27
- ▶ 64.254.140.165/28
- ▶ 72.240.0.0/15
- ▶ 131.183.222.23/23

## Questions

Next session - more VLSM practice