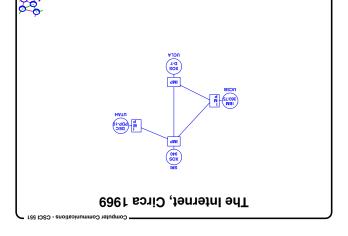
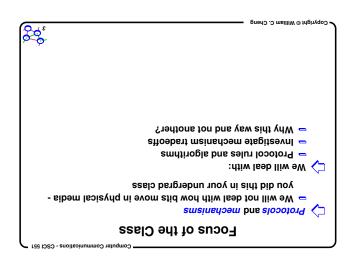
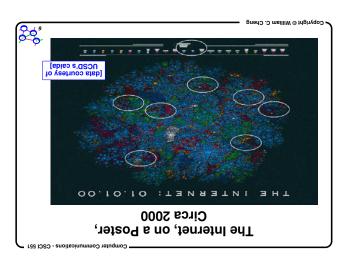


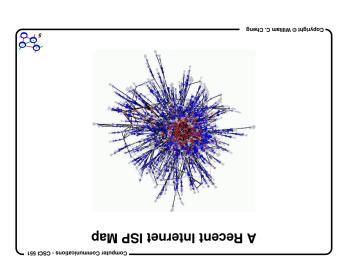
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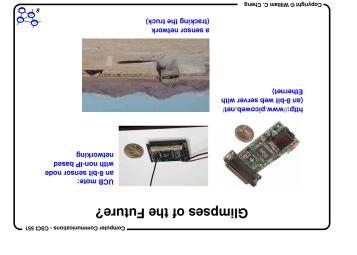
http://merlot.usc.edu/cs551-f12



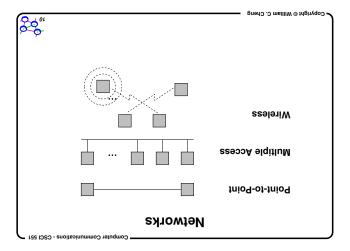


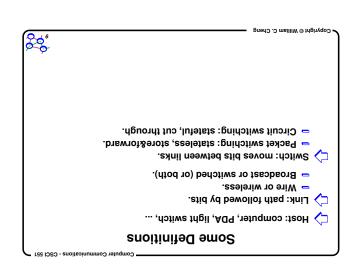


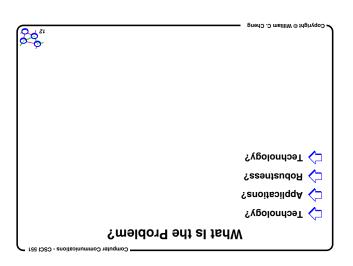


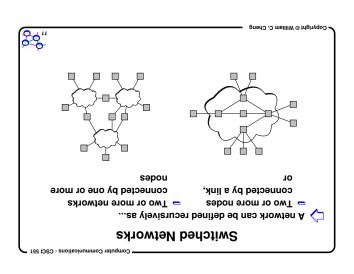


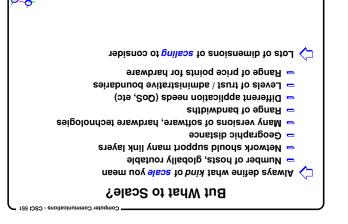


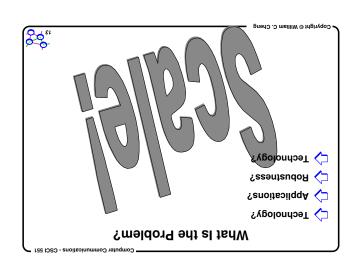






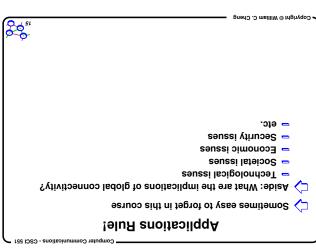


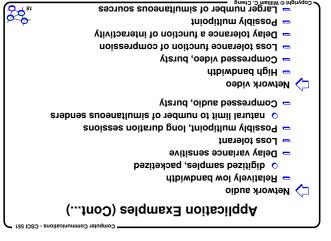


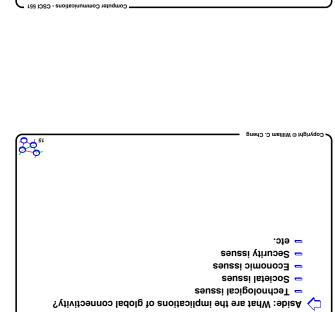


network video network audio remote login - reliable file transfer Application examples: - Loss sensitivity - Delay sensitivity Wetwork service delivered to application - Traffic target (multipoint or single destination, mobile or - Traffic pattern (bursty or constant bit rate) Traffic data rate Application input to network **Application Considerations** Computer Communications - CSCI 551

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can tolerate up to several hundreds of milliseconds

o subject to interactive constraints

- Not delay sensitive relative to round trip times

Application Examples

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= Bursty

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Bursty

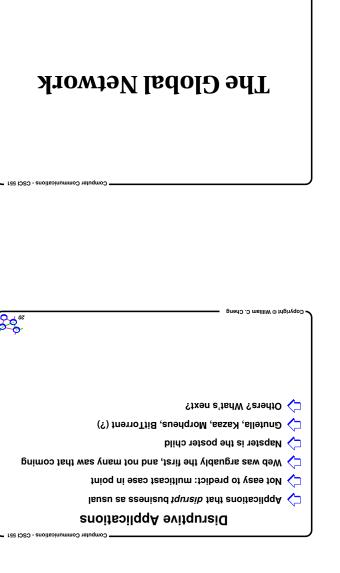
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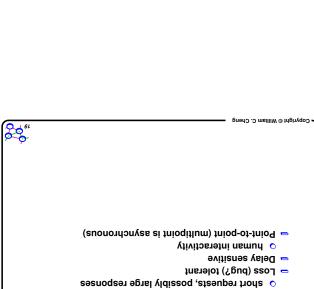
- Delay sensitive

- Loss sensitive

e Loss sensitive Reliable file transfer

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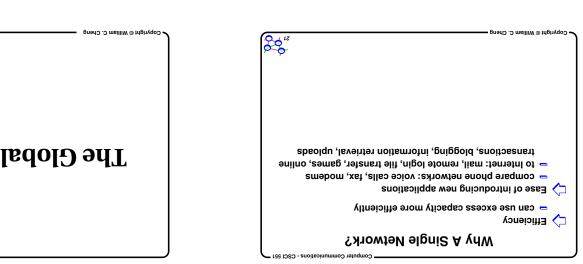


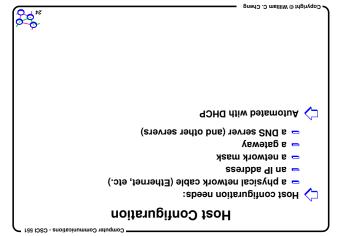
Application Examples (Cont...)

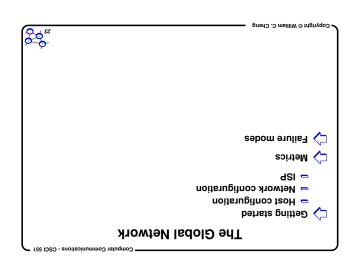
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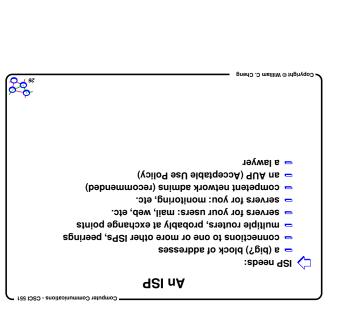
Transactional traffic

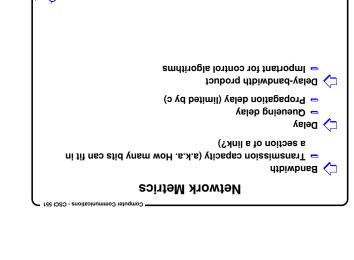
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metwork addresses (e.g., 192.168.1.xxx)

wires (from the phone or cable company)

A Network

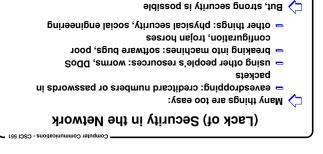
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an ISP to connect to the Internet

Aetwork configuration needs:

a firewall?

Bouter(s)

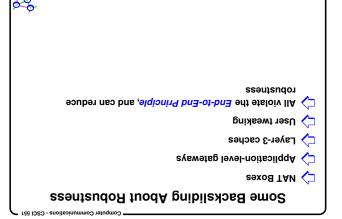


Some failure is expected (e.g., congestive loss), but too much

Network Failures

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= requires all of good protocols, implementations, and



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failure is bad

Wode or link failures

Packet loss

Queue overflows

Application level service failures

Line noise / wireless losses

Routing transients or failures