

06 March 2006

EECS 428

QOS

- Linux TC knows user perspective (or is it processor scheduling?)
- Complexity
 - o could actually reduce QOS (processing overhead)
 - o No Standards
 - o Violate E2E arguments
- Detrimental to other applications
- E2E QOS
 - o Incentives?
 - o Plain Old Telephone Service (POTS)
- Security
 - o QOS can be abused

Advantages of QOS (on corporate or campus network)

- QOS to rein in misbehaving apps
- Which layer for QOS?

Layer	Benefits	Problems
Higher	<ul style="list-style-type: none">• Flexible	<ul style="list-style-type: none">• Router access to app header• End host has to understand network• Applicable to P2P/overlays but not across apps• Can be abused (Skype)
Lower	<ul style="list-style-type: none">• Complexity pushed to network.• Faster	<ul style="list-style-type: none">• Complexity in network

- Fairness among users (checked)
- Policing accommodate more users (checked)
- Traffic differentiation leads to revenues

The differences between POTS and Internet

- circuit vs. packet
- variety of traffic models