

CS551

End-to-End Internet Packet Dynamics

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End-to-end Packet Dynamics

- ➔ How do you measure Internet performance?
 - = Why do people want to know?
 - = Are ISPs willing to tell you?
- ➔ What kinds of packet dynamics are observed in the network?
- ➔ Does there exist a *typical* Internet path?



Key Ideas

- **Measure Internet traffic**
 - = active measurements
 - = N^2 paths
 - = lots of details out of TCP

- **Evaluate dynamics**
 - = pathologies (out-of-order, duplication, corruption)
 - = bandwidth
 - = loss
 - = delay

