CSC2209
Computer Networks

Network Measurement

Stefan Saroiu
Computer Science
University of Toronto

Administrivia

- All should have received feedback about presentation
  - Any questions?

- TONS on Friday at 3pm:
  - *Enhancing the Security of Corporate Wi-Fi Networks Using DAIR*
    - Alec Wolman, Microsoft Research

- Tuesday's lecture on workload measurement
  - Alec will give the lecture

Why Measure?

Brief History of Measurement in Nets

- 1969 Arpanet is built, Kleinrock asked to put together measurement center to analyze performance
- 70s-80s lots of measurement both by users and providers
  - Lots of sharing studies, access to raw data, etc…
- 90s Internet is becoming more commercialized (ISPs)
  - Rise of competition leads to secretive mentality
  - Privacy concerns cited as well
- V. hard to measure the Internet today
  - New technique: using existing protocols and systems in unanticipated ways

Paxson's Work

- Marked a turn in Internet measurement
  - Edge measurement can tell you lots about the network
  - Lots of findings with important implications

- Received 2006 Sigcomm's Test of Time Award

Causes of Path Inflation