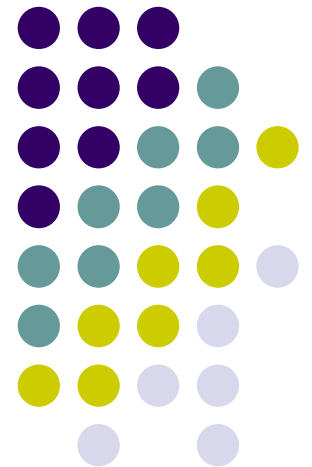# Torrent Crawler:

a tool for efficiently collecting information from BitTorrent networks
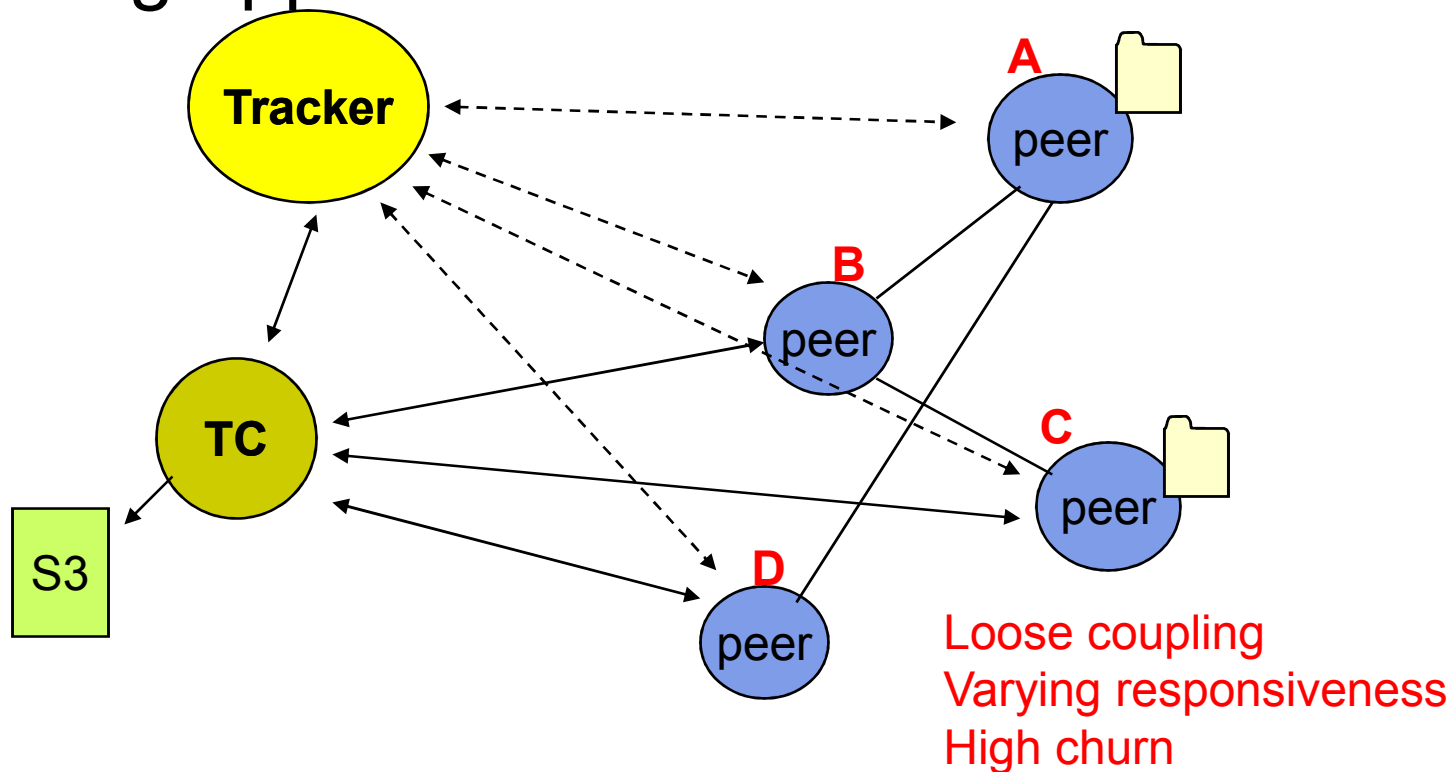
CS 6464

Project Demo

Yeounoh Chung

Motivation

- The most popular Peer-to-Peer content sharing application

Tracker

TC

S3

A peer

B peer

C peer

D peer

Loose coupling
Varying responsiveness
High churn

Motivation

- Good bandwidth utilization

- Dynamic and complex overlay structure, heavy reliance of node local view compound problems further

- No single node with sufficient global information to resolve the problems
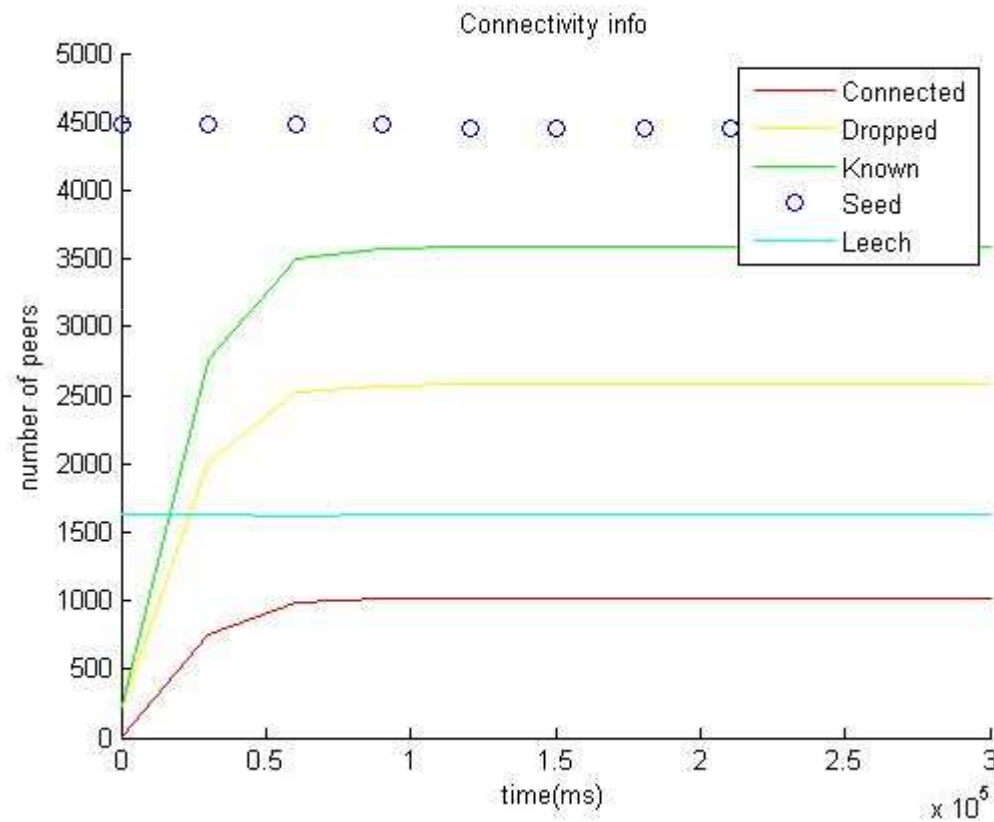
Torrent Crawler

- Want to monitor and manage Torrent Networks
  - needs to collect global information

- Crawling-based approach
  - Representative view
  - Flexible measurement
  - Collects more information
  - Advertises as a seeder
  - Unobtrusive to network traffic

- P. Dhungel, D. Wu, et al. A Measurement Study of Attacks on BitTorrent Leechers
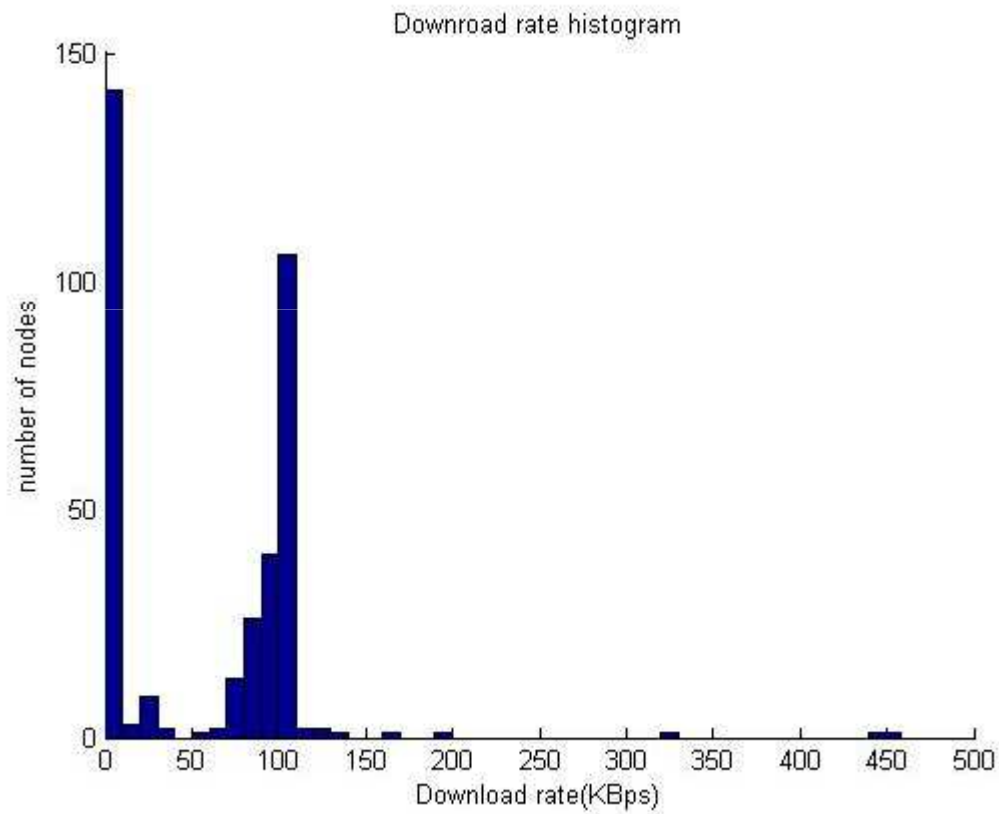
Why use Torrent Crawler?

- Efficiently and unobtrusively collect information from Torrent networks
- Representative views of Torrent networks
- Does not download any content
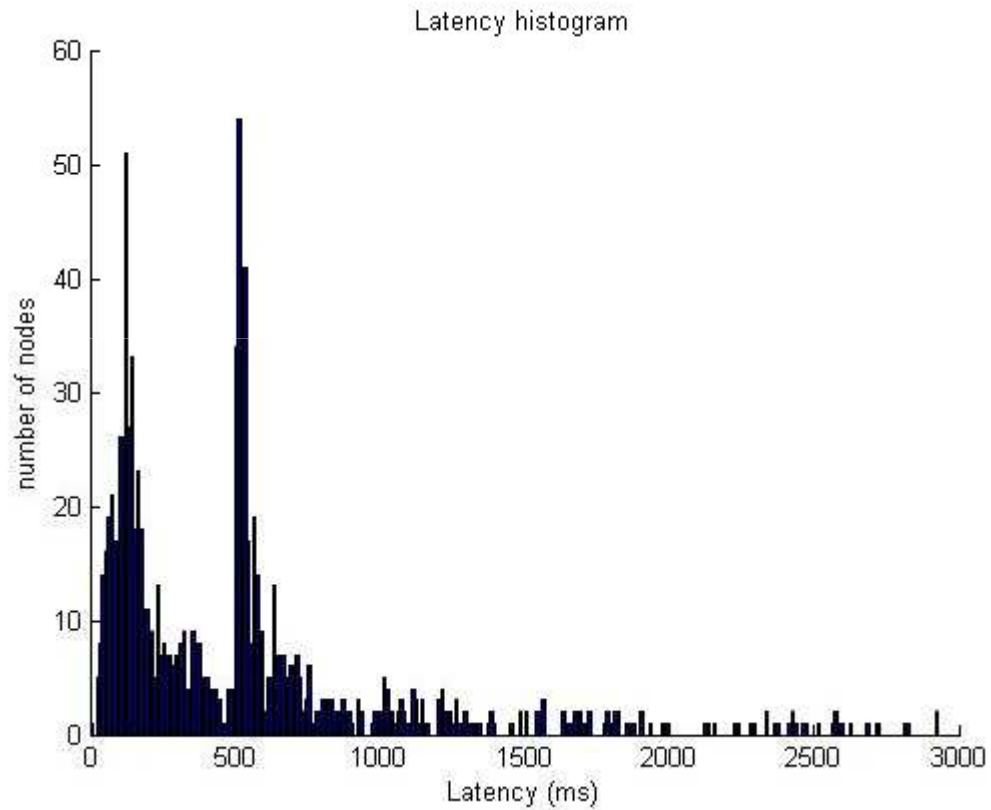- Because it works (demo)!

Preliminary Results
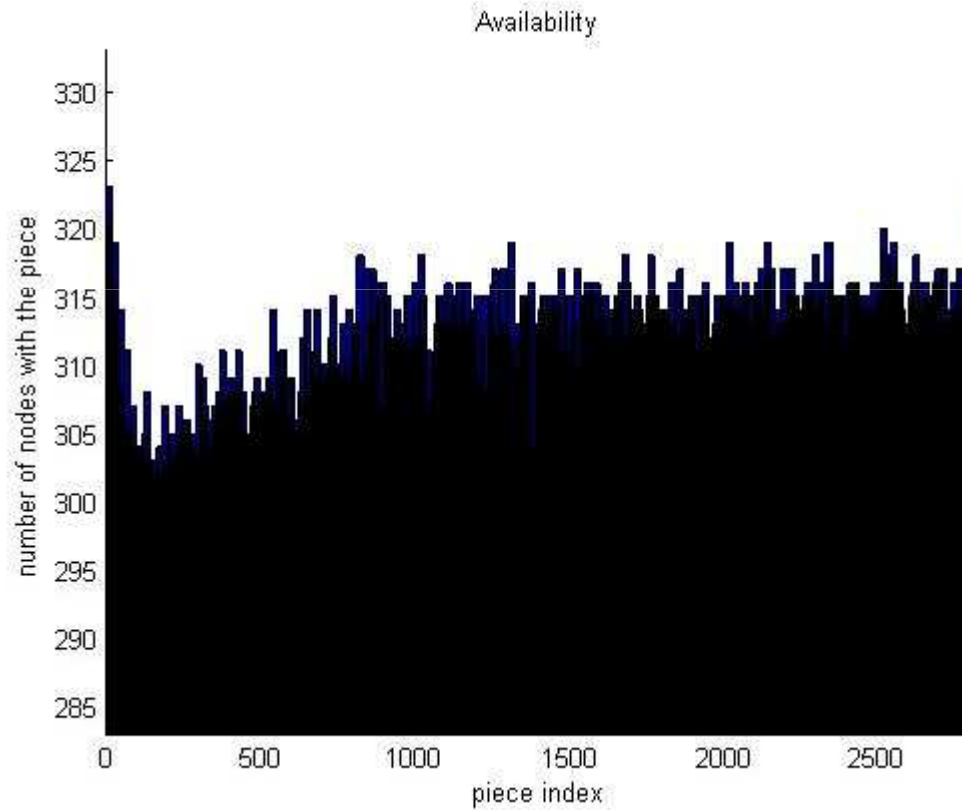
Preliminary Results

Downroad rate histogram

Preliminary Results

Latency histogram

Preliminary Results

Availability

Any questions?