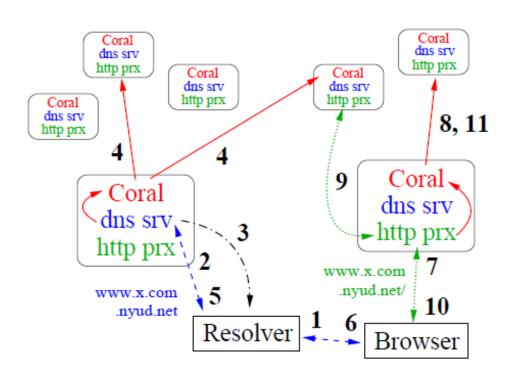
CORAL CONTENT DISTRIBUTION NETWORK THE DESIGNAND PERFORMANCE ANALYSIS

Presented by Hao Zhang

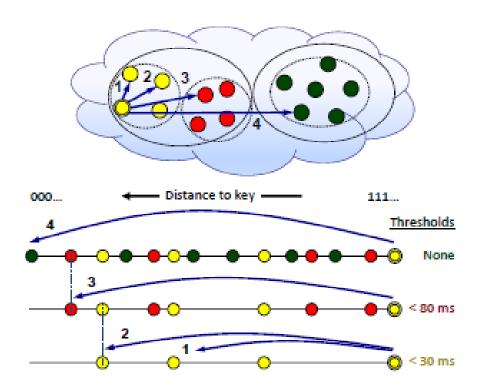
CoralCDN

- >P2P content distribution network
- > For overloaded origin servers
- >Convenient utilization
 - > Publishers
 - ➤ Users
 - > Third-parties
- >Pros
 - ➤ Locality
 - Prevent hot spots



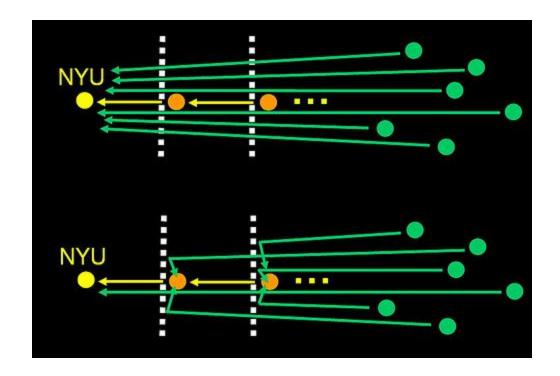
Locality

- ➤ Distributed Sloppy Hash Table
- >Use hierarchies in enquiry
- > Reduce latency



Prevent hot spots

- >Underlying Coral structure
- >Put/get operations for key/value pairs
- >DHT inserts value to node closest to key
- >DSHT doesn't



Implementation

- >Available on PlanetLab since March 2004
- ➤ Millions of users per day
- >Access to unavailable sites

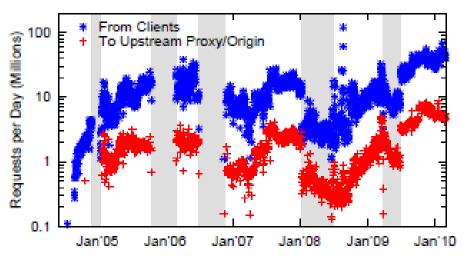


Figure 3: Total HTTP requests per day during CoralCDN's deployment. Grayed regions correspond to missing or incomplete data.

Evaluation

Design and Performance

- Most popular objects already cached
- >Unexpected uses
- >Unnecessarily complex?
- >Security issues
- >Scalable?