

Ringer: A Global-Scale Lightweight P2P File Service

Ian Pye, Scott Brandt, Carlos Maltzahn
{ipye, sbrandt, carlosm}@cs.ucsc.edu

FAST 2008 | WIP Report | 2.27.2008

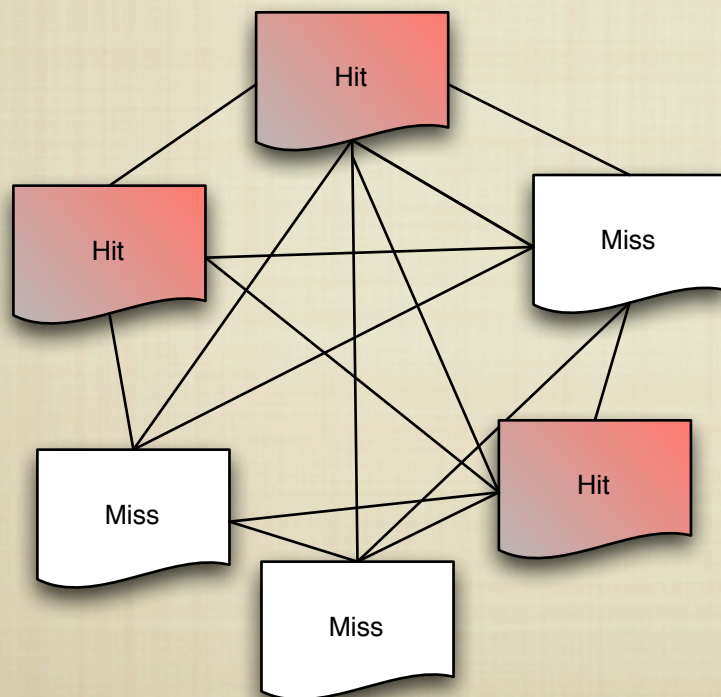


Distributed Document Management

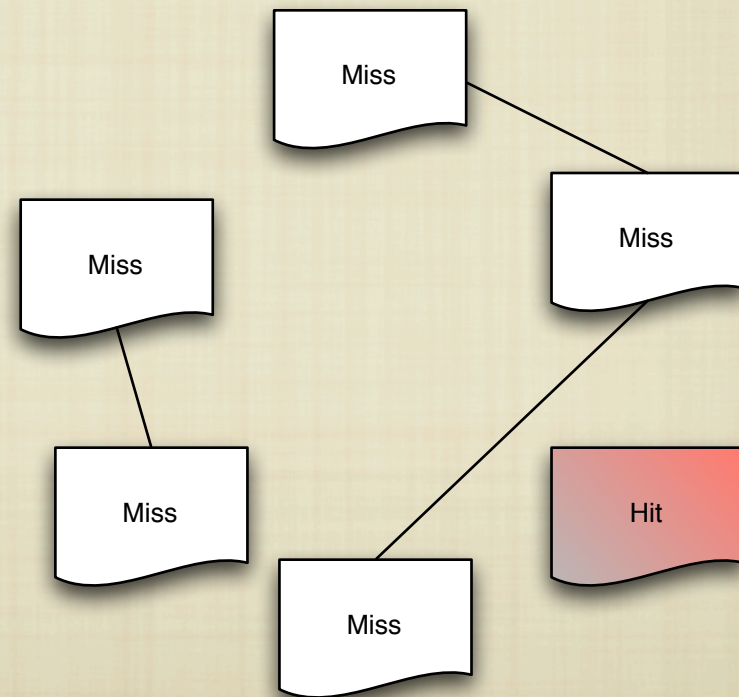
or

Why PageRank isn't going to save you now!

HTML



Random Documents



General Goals

- Filesystem semantics
- Database indexing
- Internet style connectivity



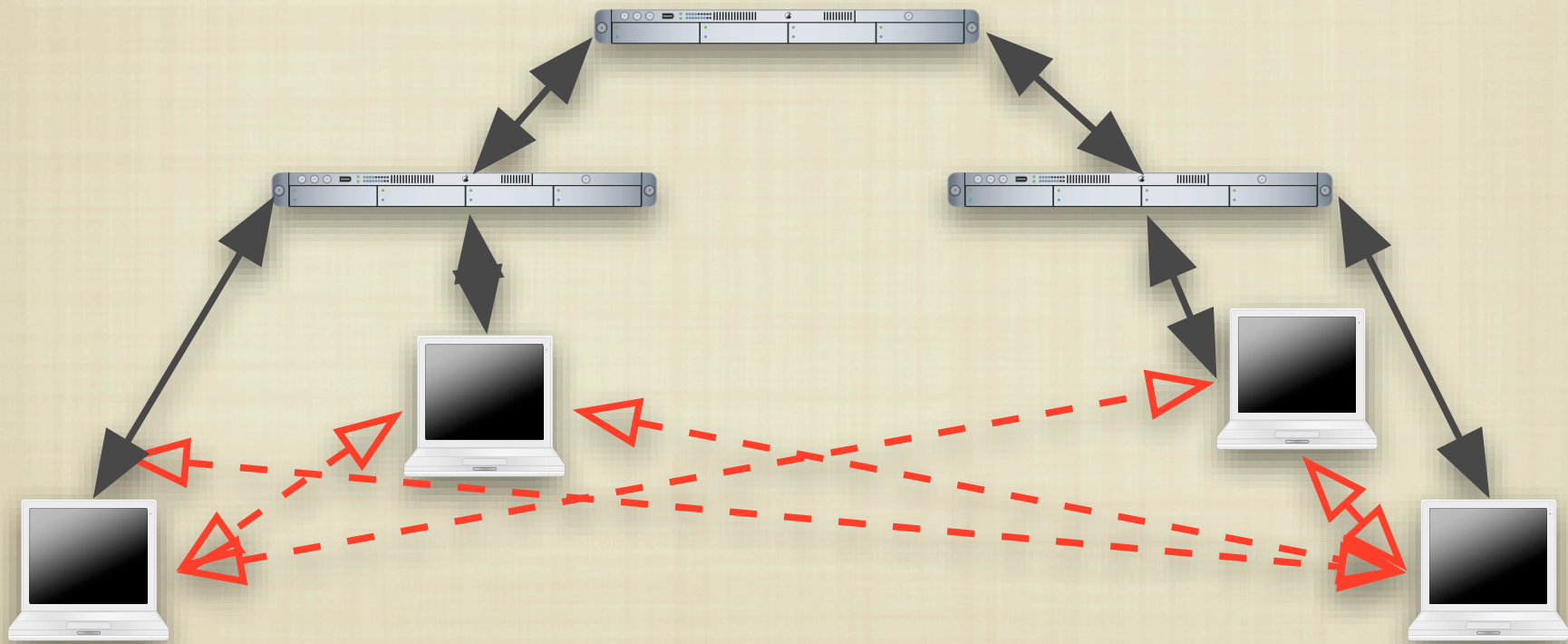
Some Approaches

- Email / Carrier Pigeon / asynchronous high-latency protocol of your choice?
- Webserver + Webcrawler?
- Central Fileserver?
- Multiple Fileservers?



Our Approach

- Hybrid P2P : Everyone talks to someone



Where Next?

- FUSE implementation
- Testing - LAN/WAN
- Benchmarks, Comparisons (LBFS, NFS v4, SSHFS)
- Formal Protocol Verification?

