caida update

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*the significant problems we face cannot be solved
by the same level of thinking that created them.
--Albert Einstein*

caida recent activities

- isma data catalog workshop report
- bandwidth estimation project (doe) closed out, no planned follow-on
- WISP conference: workshop on Internet signal processing
- analysis of skitter topology data usage, impact, and futures
- asrank: IPv4, IPv6 (matthew and brad's new map)
- new data pages (colleen leads) http://www.caida.org/data/
- web site upgrade
- p2p traffic analysis papers (thomas, cited for mgm vs grokster)
- security: ucsd network telescope (collaboration with CCIED)
- PREDICT: dhs project to promote research on real data (colleen)
- dns oarc: collaboration with ISC (f-root) (duane, andre)
- future interdomain routing (dima)
- macroscopic topology structure/evolution (dima, fontas, brad)
- tools: walrus (open source), coralreef, scamper

caida imminent future activities

- imdc alpha release in june
- boston u: community measurement workshop in march before pam
- caida web site upgrade complete
- tools: shark (ssh log analysis tools)
- new data packages (worm and DOS study) to data pages
- cceid: understand `malicious activity'
- oarc: analysis of dns traffic at root servers, dsc workload analysis s/w to roots
- topology analysis and AS relationship inference algorithms
- [participating in] next-generation measurement infrastructure

caida papers since last workshop

- A Robust System for Accurate Realtime Summaries of Internet Traffic, Keys/Moore/Estan, Sigmetrics 2005
- Spectroscopy of traceroute delays, Broido/Hyun/kc, PAM 2005
- Some Observations of Internet Stream Lifetimes, Brownlee, PAM 2005
- Revisiting Internet AS-level Topology Discovery,
- A Study of Burstiness in TCP Flows, Shakkottai/Brownlee/kc, PAM 2005
- Comparison of Public End-to-End Bandwidth Estimation Tools on High-Speed Links, Shriran/Murray/Hyun/Brownleee/Broido/Fomenkov/kc, PAM 2005
- Remote Physical Device Fingerprinting, IEEE Security & Privacy 2005

presentations

- UCSD network telescope (Colleen will talk about tomorrow)
- 'top problems of the Internet and what can be done to help' (economics/policy), CENIC meeting this week, kc