

CSCI 450 Data Communication I

Internet Delay Study

Due: September 21, Friday, 11PM

Submit the report at: http://hucs.dynu.net/lij/courses/submit_hw.html

Description:

Use traceroute or tcptraceroute or ping, or a combination of them, to find out the (probable) longest finite end-to-end delay on the Internet that you could observe. A report needs to be submitted that describes how the experiments were conducted, what data were collected and how statistics were calculated. In the conclusion part of the report, you should specify:

- (1) What is the IP address and geographical location of the destination host with the longest delay? Hint: use WHOIS service.
- (2) How much is the average delay, and the range of delay that covers about 90% of all possible delays to that destination host? Hint: refer to Chebyshev's inequality.
- (3) Which hop on the path to the destination host contributes the most delay? What is the geographical location of the route on that hop? Which company operates it? Hint: use WHOIS service.

Note, to make your results statistically significant, you should collect at least 100 samples of the delay to each host/router.