

Title: Designing High Speed Congestion Control for the Heterogeneous Internet

Presenter: Wu Xiuchao

Time: 2-3pm, 2007-10-8 (next Monday)

Venue: CIRL

Abstract:

It has been an active research topic to design high speed congestion control (HSCC) algorithms for the Internet. In this talk, through a systematically study of Compound TCP, several shortcomings are found. Several principles that a HSCC algorithm should follow are also pointed out. First, different rules should be used for different network pipes. Second, delay-based rules should be used as more as possible. Third, delay-based rules must be designed carefully for assuring efficiency, fairness, and friendliness through driving the network at the knee. Following these rules, TCP Tri-F (Fast, Fair, and Friendly) are designed for the heterogeneous Internet. I'm sorry that simulation results are not ready yet, and your comments are highly appreciated.