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Main Conclusions of [Balakrishnan97] • Simple link layers do not quite work • Adverse interaction of times is actually a minor problem • Fast retransmission and associated congestion control gets triggered and cause performance loss • Reliable link layer with TCP knowledge works well • Shielding sender from duplicate ACKs due to wireless losses improves throughput by 10-30% • No need to split end-to-end connections • I-TCP does as bad because sender stalls due to buffer space limit at BS • Using SAK or BS-MH link works well • SACK and ELN helps significantly • Help avoid timeous • e.g. ELN helped throughput by x2 over vanilla TCP-Reno • But still do 15% to 35% worse than TCP-aware link layer schemes



















