





Objectives Effective management of access link resources Resolve the congestion at the access link Relieve short-lived TCP connections from long-lived connections' possession SOFTCOM 200



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Assignment for short-lived connections Definition: short-lived connections

- Definition: short-lived connections are TCP connections in <u>slow-start</u> <u>phase</u>
- Assign receive buffer according to the change of window size in slowstart phase
 - R = 2 · 2^t [packets]
 - □ *t* : number of RTTs from beginning of

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the connection

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Assignment for long-lived connections Definition: short-lived connections

- Definition: short-lived connections are TCP connections in <u>congestion</u> <u>avoidance phase</u>
- Assign receive buffer according to the pre-defined priority and RTT (Round Trip Time) values
- $R = (B T_{is}) p \cdot rtt / (p \cdot rtt) [packets]$ $p : priority, B : total buffer size at the receiver, T_{is} : total buffer size for short-lived connections$









