

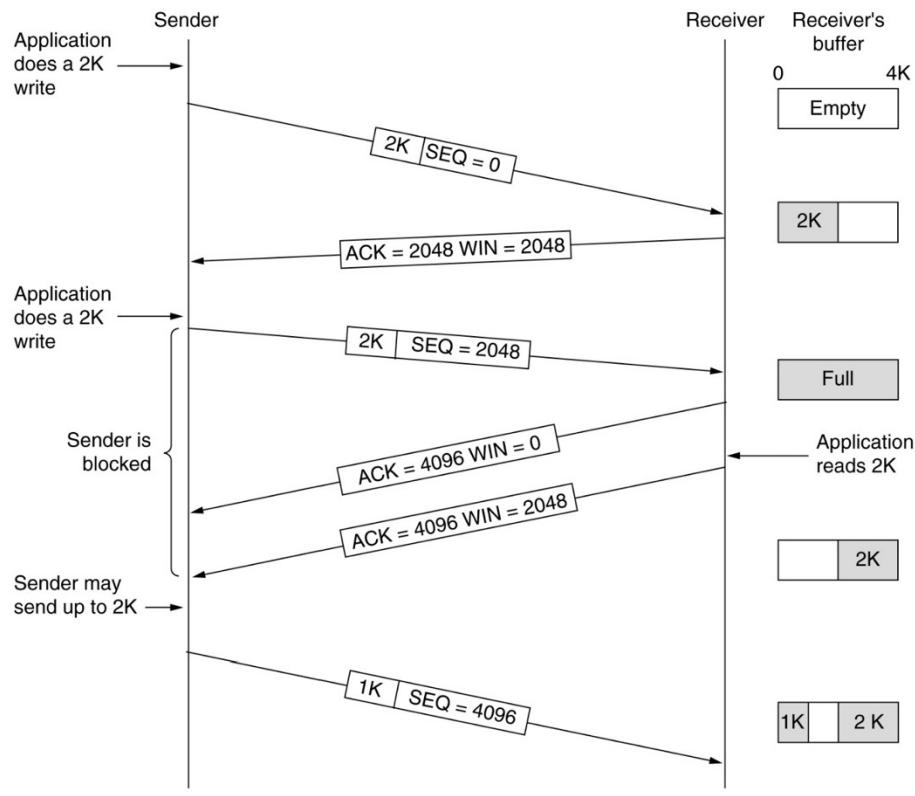
Lab 5 Exercise

Purpose: Understand TCP error control by analyzing TCP trace files with wireshark

Following the example in the following lecture slide, draw two diagrams to show the timelines of the first 8 packets according to the two captured trace files: one captured at the client (192.168.1.100) and one captured at the server (10.10.1.100). The two trace files, *tcp-error-client.cap* and *tcp-error-server.cap*, can be found in brightspace.

For your convenience, the diagram in the lecture slide is copied below:

11. TCP Transmission Policy



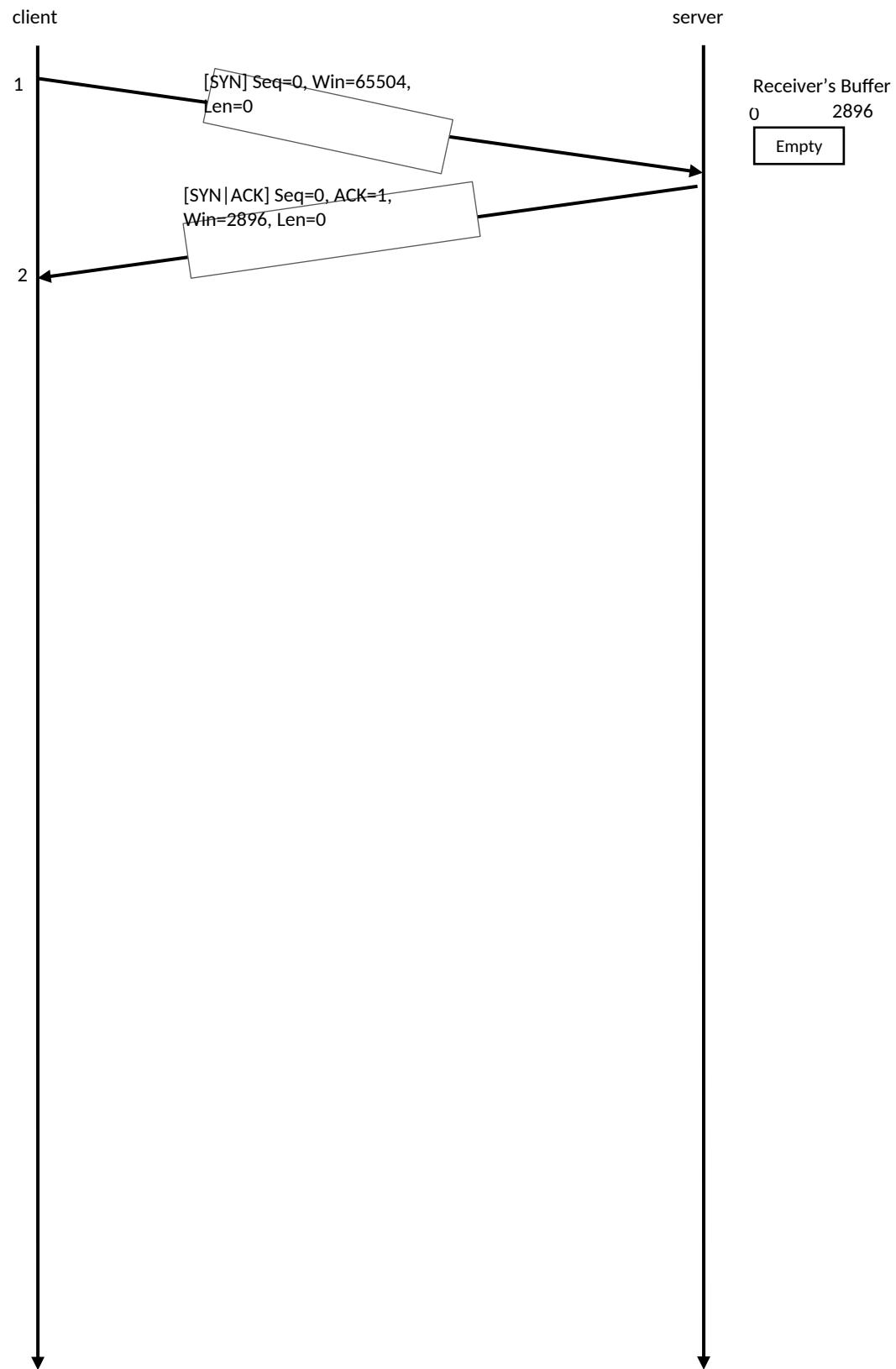
Window management in TCP.

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Requirements for the diagram are:

1. Indicate the packet number.
2. For each packet, write down the flag(s) (e.g. SYN, ACK...), Seq number, Win size, ACK number, payload length, and indicate if it is lost, or duplicate acknowledgement, or fast retransmission, or timeout retransmission, or retransmission etc.
3. On the server side, show the state of the buffer, e.g. empty, $\frac{1}{4}$ filled, $\frac{1}{2}$ filled, $\frac{3}{4}$ filled, or full.

As an example, the beginning of the diagram for tcp-error-client.cap looks like this:



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