

Read the following questions about the TCP timeout and answer them

1. Is it a good idea to have a big TCP timeout? and a small one? Which are the consequences?
2. Can TCP know the length of time it takes a segment to reach its destination?
3. Can TCP know if the network has lost a segment?
4. Can TCP know the length of time it takes a segment to reach its destination and to come back (Round Trip Time, RTT)?

5. How can TCP have an accurate, light and adaptative statistic of the time to send and receive a segment?
6. Which is the Timeout TCP will wait to retransmit a segment?
7. What happens if I receive a retransmitted segment confirmation?
8. How can I update my timeout while in retransmission state?
9. How can I calculate my timeout to take deviation into account?