

Homework #1 (due on 09/28)

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1. In a MAC-based L2 switch, how is the MAC-port list set up **and** maintained?
 2. Where fragmented packets should be reassembled? At the end node (destination host), or at an intermediate node (such as router)? Why?
 3. How does IPv6 take care of MTU and path MTU?
 4. (Bonus) If there is only one external IP address but more than 2^{16} TCP sessions need to go out, is there a way to extend PAT so that we can accommodate the requirement?
- No more than one page for each homework problem, please.
 - Don't forget to write down your comments and ideas from reading the assigned textbook chapters for bonus points. But don't write a summary. I only want to know your own thoughts.