

Lab 7 Writeup

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This lab took me about 3 hours to do. I did attend the lab session.

1. Program Structure and Design:

I was too lazy to implement a trie for longest prefix match, I only used a `std::vector` to store all routes. When a datagram needs routing, check all the routes in the `std::vector` and find the longest one.

2. Implementation Challenges:

Right shift a `uint32_t` variable for 32 bit caused bugs. An `if` is used for avoid that case.

3. Remaining Bugs:

All tests passed.

More details and requirements of sections above can be found in `lab7_tutorials.pdf/6.submit`