

2 Routing in the Internet

Answer the following questions.

1. Briefly describe and explain the information in the IPv4 header used by Internet routing.
2. Compare “Encapsulation” (i.e., IP in IP) with IP loose-source routing option by presenting their pros and cons.
3. Explain the basic method for ICMP and IP to implement *route trace*. Give at least one other method for IP to implement *route trace*.
4. Explain the principle for the Internet to recover from black holes.