CS118 Project 2 Report

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Overview:

Our program satisfies the minimums of the expected functions that work, such as ping, traceroute, and wget through the three provided router interfaces and applications. The outputs of the mininet program as well as the sr program demonstrate this.

Implementation:

The bulk of our code is in sr_router.c. There were some changes to the additional files, mostly changes to typedef for convenience declaration convenience. We implemented multiple functions for the router to properly send and receive packets. This includes sending ARP requests and ICMP packets. We also had to implement receiving packets of various types, depending on the situation. To confirm correction, we also have several functions to check integrity of all packets. We also adjusted our Makefile based on a previous project such that it was more convenient for us.