Name_____ _____/20 pts.

Name_____

Name_____

SE 4C03 Winter 2002

Lab Exercise 2

Instructor: William M. Farmer
Revised: 11 February 2002

Assigned: 08-FEB-2002
Lab report due: 08-MAR-2002

Do this lab exercise with your assigned team members.

1. Configure your host's routing table using `route` so that the specification below is satisfied. Add a *direct route* to the routing table for each of the three network interfaces on your host. Add enough *indirect routes* (including possibly one default route) to the routing table so that there is a route to each IP address on the Little Internet. Put a copy of the your `route` commands in the `/etc/rc.local` file so that they are executed when your host is rebooted.

   _____/15 pts.

2. After configuring your host's routing table, use `ping` to determine which IP addresses are accessible to your host. Record your findings in a table on a separate sheet. Each entry of the table should include the date, the time, the IP address that was pinged, and what was observed. _____/5 pts.

For your team's lab report, hand in this sheet, the ping results table, and a copy of each team member's log book.

Little Internet Routing Specification. If the number of your host is x and the destination address of a packet belongs to a host with number y, then:

1. If $x = y$, the packet should be immediately delivered.
2. If $x < y$, the packet should be forwarded to a host with number z such that $x < z \leq y$.
3. If $y < x$, the packet should be forwarded to a host with number z such that $y \leq z < x$.