

1) Group1 tracefiles all tracefiles had 3 probes per ttl which summed up to 17 but tracefile 1 & 5 have 18 ttl which probes ones at ttl=18.

2) The sequence of intermediate routers does not match for trace files group1, but they match for trace files group2, at first glanced it looked like it matched for the files in group1 but they usually (if they look similar) have different last couple of bits in the IP address

3) The difference in the five trace files (group1-trace1 – group1-trace5) is the last couple of bits in the IP address. Reason being the network probably has a DHCP server which periodically, changes the last three digits whenever the DHCP server issues you a new IP address.

4) For trace files in group two because they match

TTL	Trace1	Trace2	Trace3	Trace4	Trace5
1	10.0	10	7.5	12.5	10.0
2	18.75	17.5	17.5	20.0	18.75
3	21.25	20.0	20.0	23.75	22.5
4	22.5	21.5	20.0	25.0	23.75
5	23.75	22.5	21.25	25.0	23.75
6	25.0	23.75	22.5	26.25	25.0
7	25.0	25.0	22.5	27.5	26.25
8	26.25	25.0	23.75	28.75	27.5

The hop likely to incur the maximum delay is when TTL = 8, because it has the highest RTT average.