Network Layer Offline Report
CSE 322 (Computer Networks Sessional)

Ali Haisam Muhammad Rafid

December 9, 2017

DVR

LAMBDA	Avg No. of Hops	Drop Rate (%)
0.01	1.584	65.667
0.05	0.996	63.933
0.10	0.984	70.333
0.25	0.554	92.533
0.50	0.680	83.533
0.80	0.753	80.867

Simple DVR

For **LAMBDA** = 0.10

Avg No. of Hops = 3809.672 & **Drop Rate** = 87.8%

All the averages are calculated ignoring the dropped packets.

Here the average no. of hops using simple DVR is much greater than using DVR with **forced update** and **split horizon**. Because in case of simple DVR, if a router is down, the news reaches other routers much slower than in DVR. So, the number of hops can be high because the packet may go around in cycles until the router is up again, or one of the table gets updated with a new path. But, if the hop count reaches 10 to reach a router before the described event happens, the packet is dropped and we did not consider dropped packets in average calculations.