Report on Network Layer Assignment

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Table for DVR:

Lambda		0.01	0.05	0.10	0.25	0.50	0.80
Client 1	Avg. Hop	1.63	1.25	1.0	1.48	1.0	1.0
	Drop rate	6%	36%	86%	65%	94%	91%
Client 2	Avg. Hop	1.7	1.65	0.0	2.03	0.0	1.0
	Drop rate	0%	33%	100%	67%	100%	84%
Client 3	Avg. Hop	2	2.67	1.0	0.0	1.8	1.0
	Drop rate	0%	28%	74%	100%	89%	83%
Client 4	Avg. Hop	1.36	1.38	1.0	2.48	2.25	1.0
	Drop rate	0%	33%	73%	71%	96%	80%
Client 5	Avg. Hop	1.61	1.47	3.0	1.0	1.0	1.0
	Drop rate	1%	32%	77%	55%	87%	98%

Comparison between simpleDVR and DVR:

Table for simpleDvr:

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Client 1	Drop rate	87%			
Client 2	Drop rate	88%			
Client 3	Drop rate	93%			
Client 4	Drop rate	97%			
Client 5	Drop rate	73%			

 $\label{eq:control_potential} For lambda = 0.10$ avg. drop rate in DVR = 82% avg. drop rate in simpleDVR = 87.6%

So, we can say that DVR with split horizon and forced update is better than DVR without them. Also there is some problem in DVR without split horizon and forced update and that is there can occur infinite loop in it.