Project 2 Report

selective-repeat

The server and client code was run on two different VCL machines.

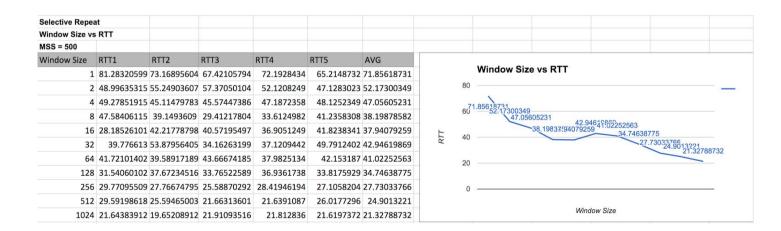
On the receiver side a fixed window size of 1024 has been used for all experiments

The traceroute value between these machines == 1 hop

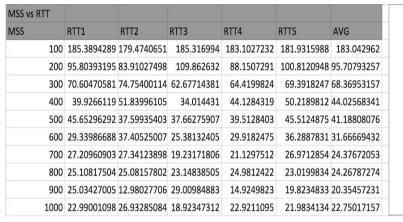
```
traceroute
0 upgraded, 1 newly installed, 0 to remove and 349 not upgraded.
Need to get 45.0 kB of archives.
After this operation, 176 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/universe traceroute amd64 1:2.0.20-0ub untu0.1 [45.0 kB]
Fetched 45.0 kB in 0s (426 kB/s)
Selecting previously unselected package traceroute.
(Reading database ... 245762 files and directories currently installed.)
Preparing to unpack .../traceroute_1%3a2.0.20-0ubuntu0.1_amd64.deb ...
Unpacking traceroute (1:2.0.20-0ubuntu0.1) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Setting up traceroute (1:2.0.20-0ubuntu0.1) ...
update-alternatives: using /usr/bin/traceroute.db to provide /usr/bin/traceroute (traceroute) in auto mode
update-alternatives: using /usr/bin/tf.db to provide /usr/bin/lft (lft) in auto mode
update-alternatives: using /usr/bin/traceroute.db to provide /usr/bin/traceproto (traceproto) in auto mode
update-alternatives: using /usr/sbin/tcptraceroute.db to provide /usr/sbin/tcptraceroute (tcptraceroute) in auto mode
update-alternatives: using /usr/sbin/tcptraceroute.db to provide /usr/sbin/tcptraceroute (tcptraceroute) in auto mode
[apatwar@bn19-88:~$ traceroute 152.46.20.210 (152.46.20.210), 30 hops max, 60 byte packets

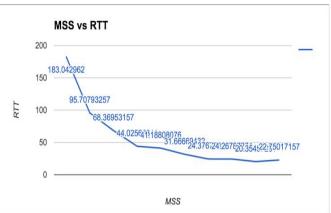
1 bn20-210.dcs.mcnc.org (152.46.20.210) 0.198 ms 0.176 ms 0.167 ms
apatwar@bn19-88:~$
```

1) Task 1 - Effect of Window size N on sender



2) Task 2 - Effect of MSS





3) Task 3 - Effect of Loss Probability p

EXPT 3						
RTT vs Prob	EXPT1	EXPT2	EXPT3	EXPT4	EXPT5	AVG
0.01	33.30163503	37.37868094	33.23756981	33.812487	36.1092352	34.7679216
0.02	53.37545609	61.32246089	63.33828092	55.1240951	61.3909215	58.9102429
0.03	81.36969399	73.28058004	77.2711761	80.2938593	74.8132949	77.40572087
0.04	81.27736878	79.28257298	77.18367195	78.8912498	79.9534932	79.31767134
0.05	81.39163518	73.16524601	77.40820503	76.6197123	73.9124739	76.49945448
0.06	91.28593802	99.22992492	97.37060809	93.4124923	96.8912913	95.63805093
0.07	97.37387204	91.32022405	93.35920906	92.5919379	96.1073819	94.15052499
0.08	97.31915092	109.342068	93.40014195	108.5471038	96.1240973	100.9465124
0.09	117.3972452	117.3983271	99.30768013	113.5711047	103.3813598	110.2111434
0.1	123.479526	121.451478	131.3336961	127.081258	129.2398592	126.5171635

