

Pantheon Report

Generated at 2017-12-21 11:12:50 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

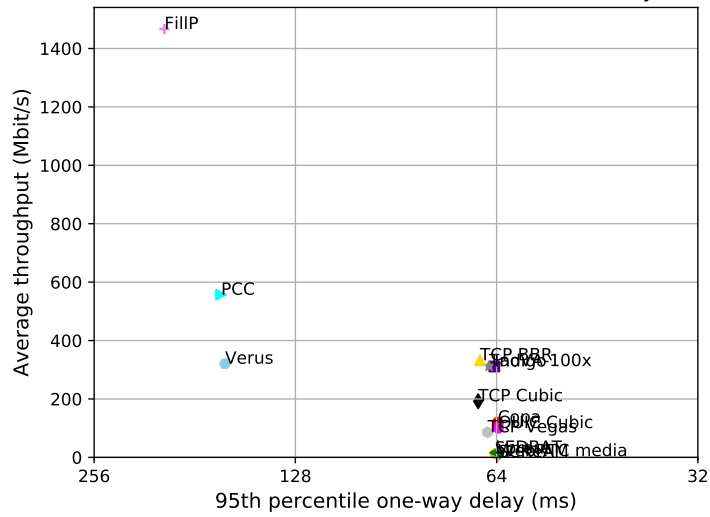
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

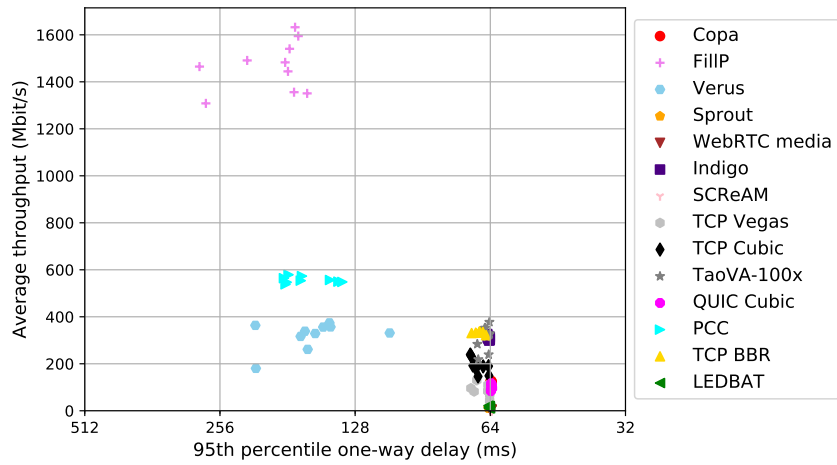
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Tokyo Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	7	171.10	165.00	156.83	66.82	68.32	68.81	0.41	0.74	1.48
TCP Cubic	10	93.79	121.32	54.05	67.68	67.99	67.87	0.54	0.64	3.16
LEDBAT	10	9.17	6.88	5.89	64.29	64.33	64.34	1.14	1.23	2.75
PCC	9	511.58	45.72	45.37	165.25	164.93	158.64	1.53	1.52	3.07
QUIC Cubic	10	53.44	56.16	29.82	63.61	63.43	63.60	0.45	0.59	1.66
SCReAM	10	0.21	0.22	0.22	63.65	63.68	63.55	0.38	0.65	1.13
WebRTC media	10	2.19	1.39	0.56	63.68	63.44	63.73	0.54	0.74	2.01
Sprout	10	6.47	6.33	6.11	64.40	64.44	64.45	0.70	0.88	1.53
TaoVA-100x	10	172.72	177.17	94.87	65.35	65.91	66.94	0.48	0.49	2.33
TCP Vegas	10	41.52	32.83	68.38	65.13	65.90	66.14	0.70	0.91	1.55
Verus	10	198.69	139.96	96.03	150.52	174.18	167.96	1.45	2.10	2.24
Copa	10	67.31	64.04	37.44	63.70	63.70	64.38	0.37	0.67	6.54
FillP	10	772.94	714.82	668.94	193.63	191.01	205.59	5.81	5.62	10.27
Indigo	10	167.04	154.59	129.21	64.25	64.74	64.84	0.39	0.62	1.38

Run 1: Statistics of TCP BBR

Start at: 2017-12-21 04:57:08

End at: 2017-12-21 04:57:38

Below is generated by plot.py at 2017-12-21 09:50:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.61 Mbit/s

95th percentile per-packet one-way delay: 67.808 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 170.10 Mbit/s

95th percentile per-packet one-way delay: 67.267 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 166.21 Mbit/s

95th percentile per-packet one-way delay: 67.737 ms

Loss rate: 0.69%

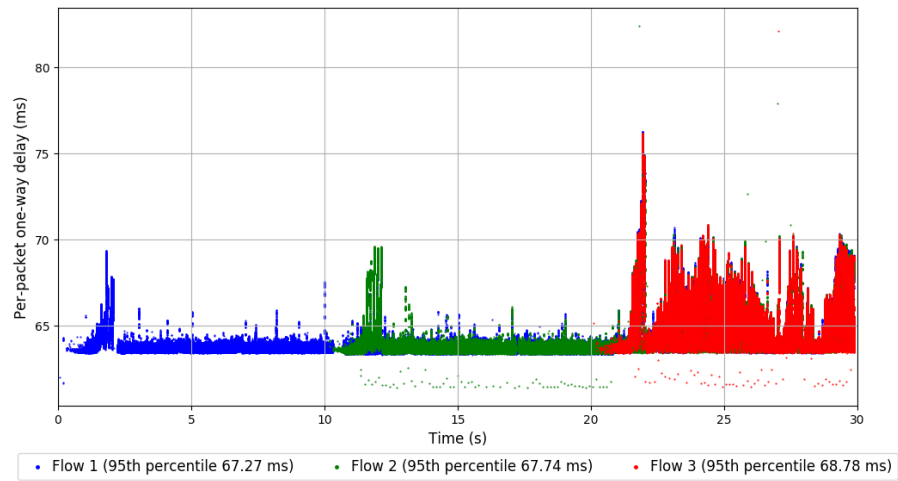
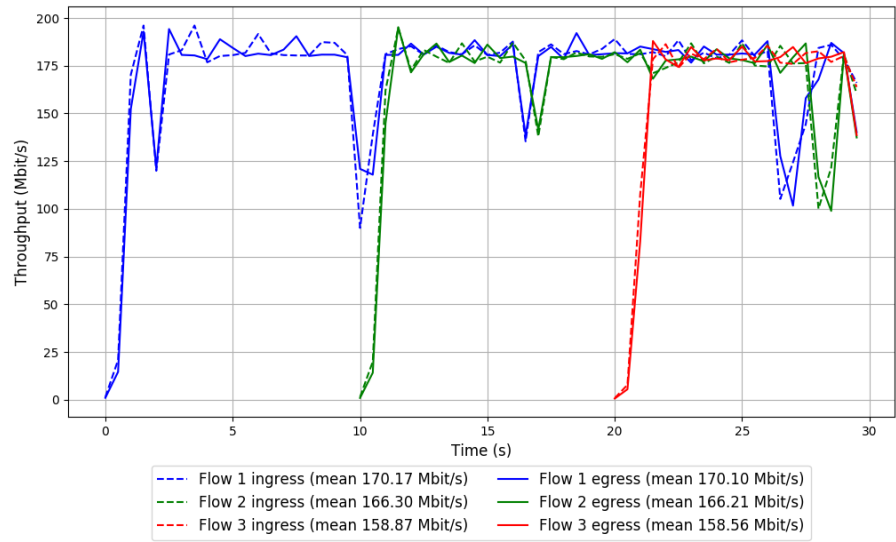
-- Flow 3:

Average throughput: 158.56 Mbit/s

95th percentile per-packet one-way delay: 68.784 ms

Loss rate: 1.48%

Run 1: Report of TCP BBR — Data Link

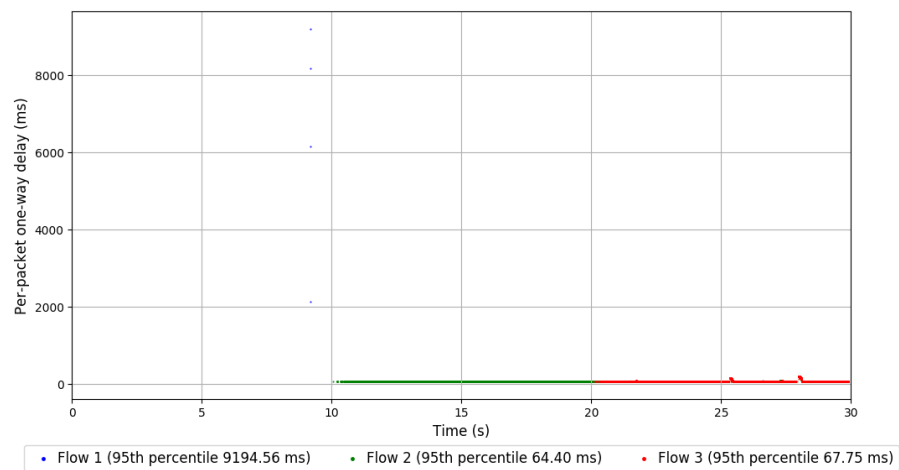
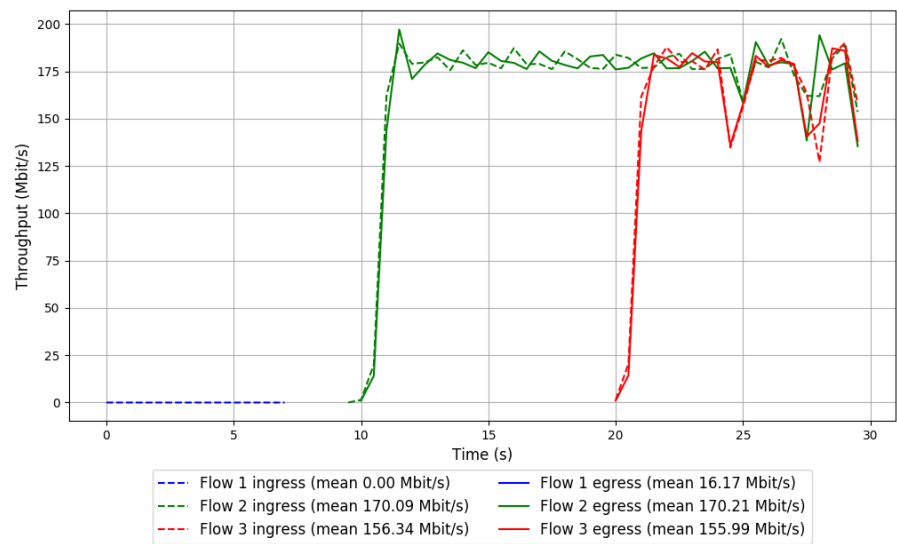


Run 2: Statistics of TCP BBR

Start at: 2017-12-21 05:11:42

End at: 2017-12-21 05:12:12

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-21 05:25:47

End at: 2017-12-21 05:26:17

Below is generated by plot.py at 2017-12-21 09:50:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.73 Mbit/s

95th percentile per-packet one-way delay: 70.446 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 175.83 Mbit/s

95th percentile per-packet one-way delay: 68.024 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 160.63 Mbit/s

95th percentile per-packet one-way delay: 71.926 ms

Loss rate: 0.73%

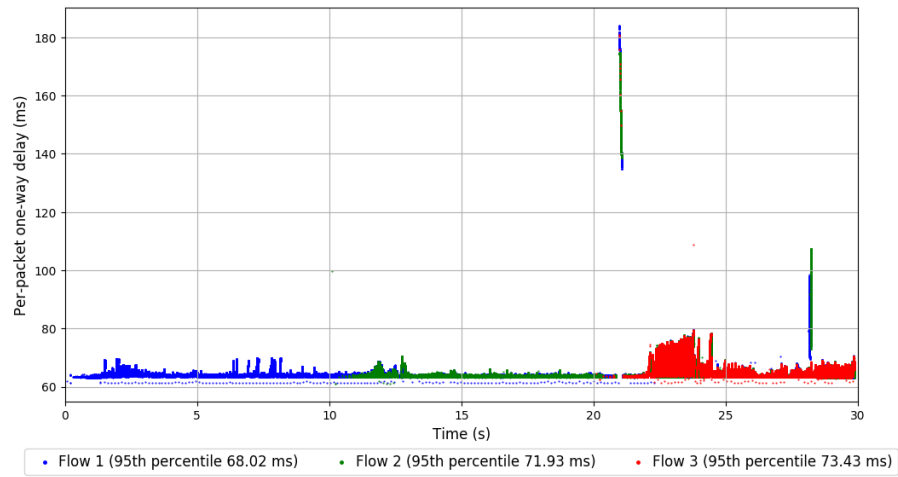
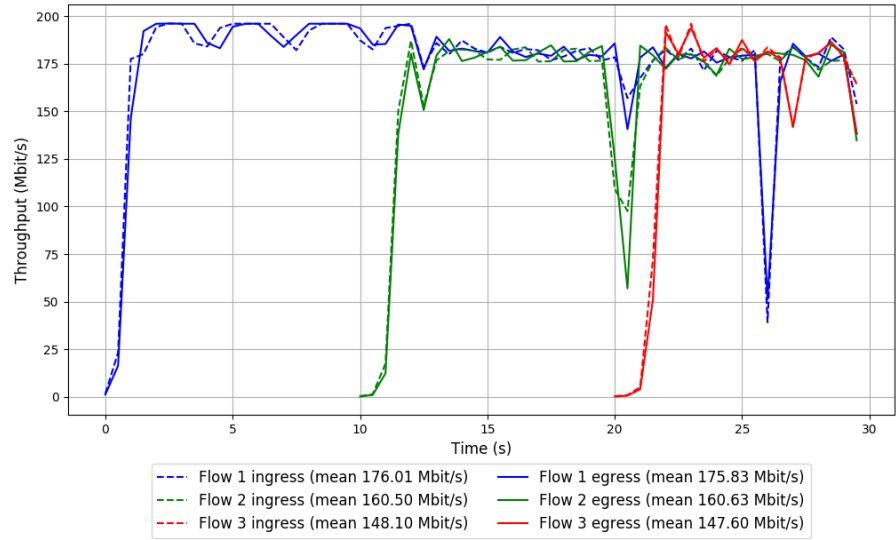
-- Flow 3:

Average throughput: 147.60 Mbit/s

95th percentile per-packet one-way delay: 73.427 ms

Loss rate: 1.67%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-21 05:40:08

End at: 2017-12-21 05:40:38

Below is generated by plot.py at 2017-12-21 09:50:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.23 Mbit/s

95th percentile per-packet one-way delay: 67.646 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 173.23 Mbit/s

95th percentile per-packet one-way delay: 66.265 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 168.39 Mbit/s

95th percentile per-packet one-way delay: 68.866 ms

Loss rate: 0.66%

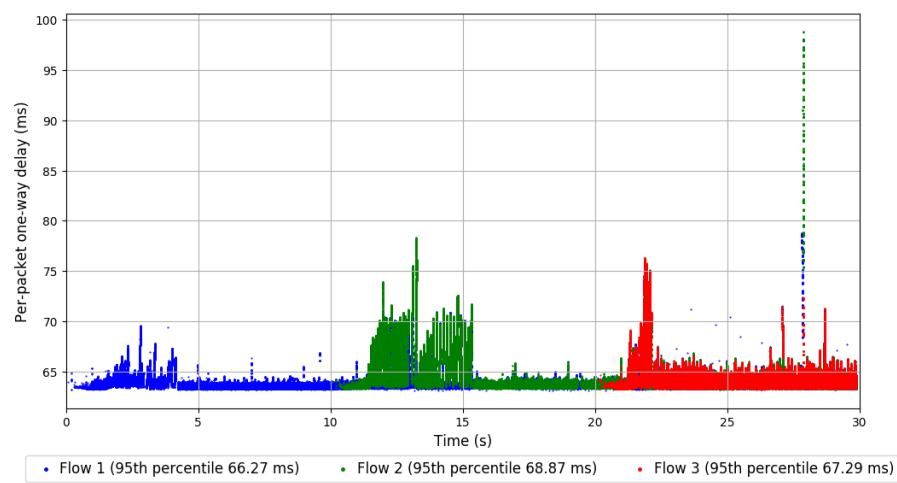
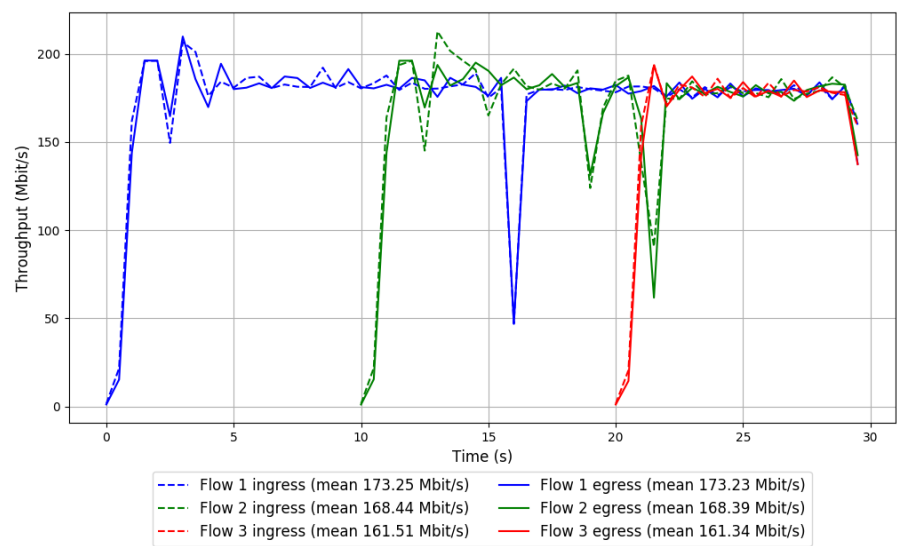
-- Flow 3:

Average throughput: 161.34 Mbit/s

95th percentile per-packet one-way delay: 67.290 ms

Loss rate: 1.38%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-21 05:54:19

End at: 2017-12-21 05:54:49

Below is generated by plot.py at 2017-12-21 09:50:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.39 Mbit/s

95th percentile per-packet one-way delay: 66.502 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 171.18 Mbit/s

95th percentile per-packet one-way delay: 65.891 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 167.89 Mbit/s

95th percentile per-packet one-way delay: 67.165 ms

Loss rate: 0.73%

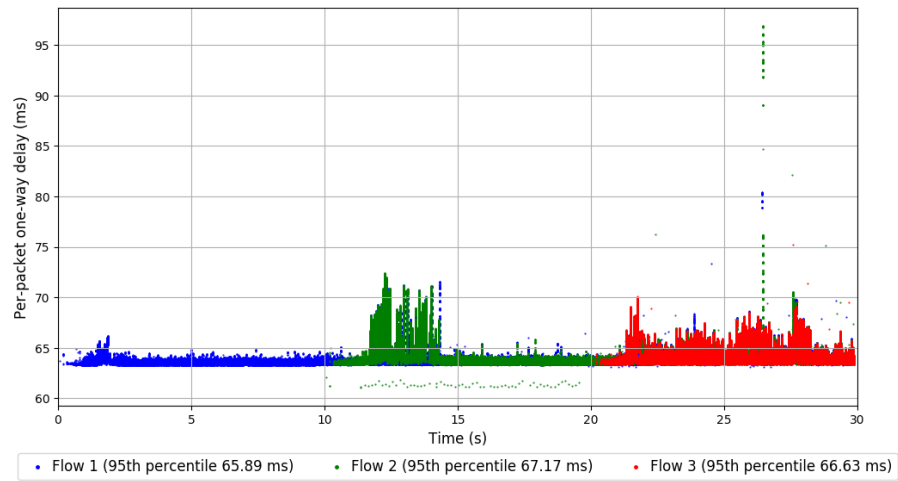
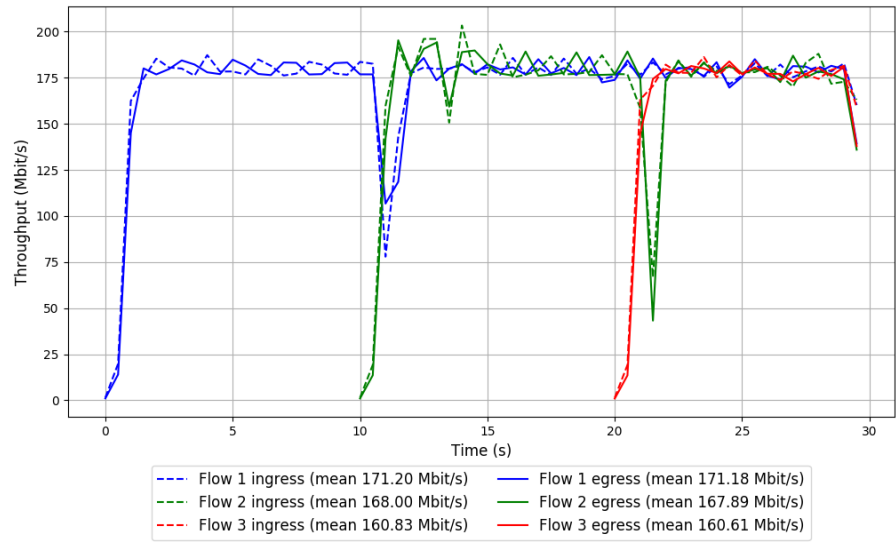
-- Flow 3:

Average throughput: 160.61 Mbit/s

95th percentile per-packet one-way delay: 66.633 ms

Loss rate: 1.42%

Run 5: Report of TCP BBR — Data Link

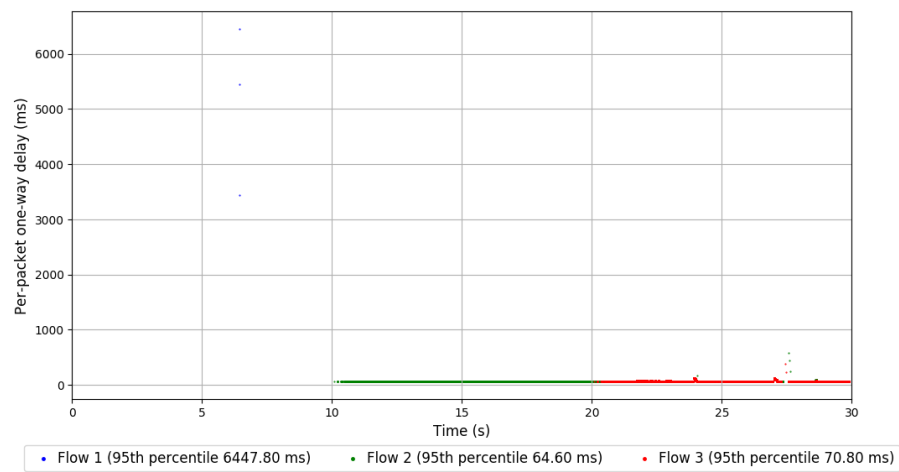
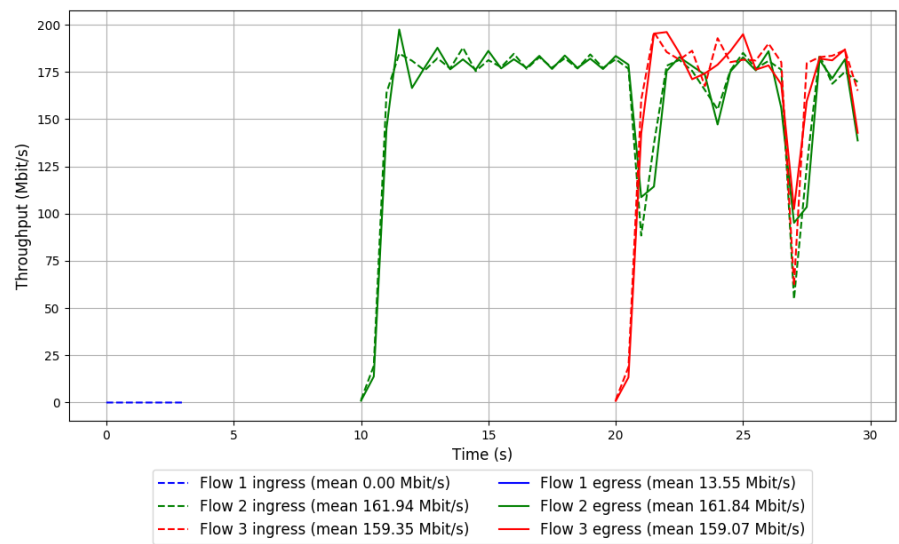


Run 6: Statistics of TCP BBR

Start at: 2017-12-21 06:08:43

End at: 2017-12-21 06:09:13

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-21 06:22:38

End at: 2017-12-21 06:23:08

Below is generated by plot.py at 2017-12-21 09:50:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.52 Mbit/s

95th percentile per-packet one-way delay: 68.969 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 172.03 Mbit/s

95th percentile per-packet one-way delay: 68.152 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 163.81 Mbit/s

95th percentile per-packet one-way delay: 69.141 ms

Loss rate: 0.69%

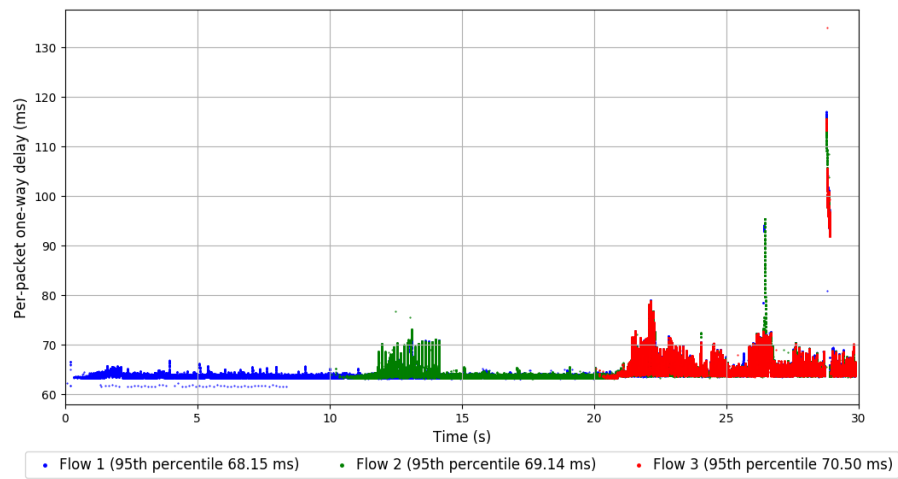
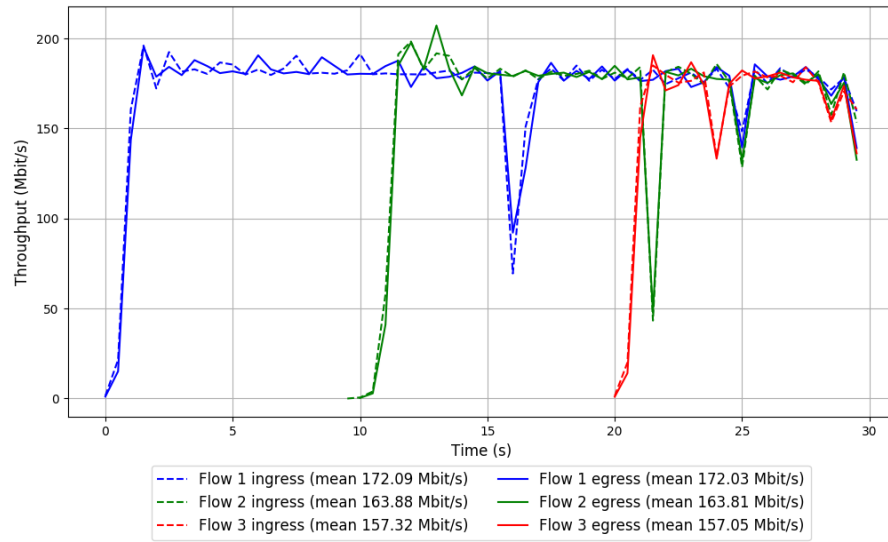
-- Flow 3:

Average throughput: 157.05 Mbit/s

95th percentile per-packet one-way delay: 70.501 ms

Loss rate: 1.47%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-21 06:36:57

End at: 2017-12-21 06:37:27

Below is generated by plot.py at 2017-12-21 09:50:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.25 Mbit/s

95th percentile per-packet one-way delay: 67.722 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 171.78 Mbit/s

95th percentile per-packet one-way delay: 67.054 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 166.37 Mbit/s

95th percentile per-packet one-way delay: 68.001 ms

Loss rate: 0.68%

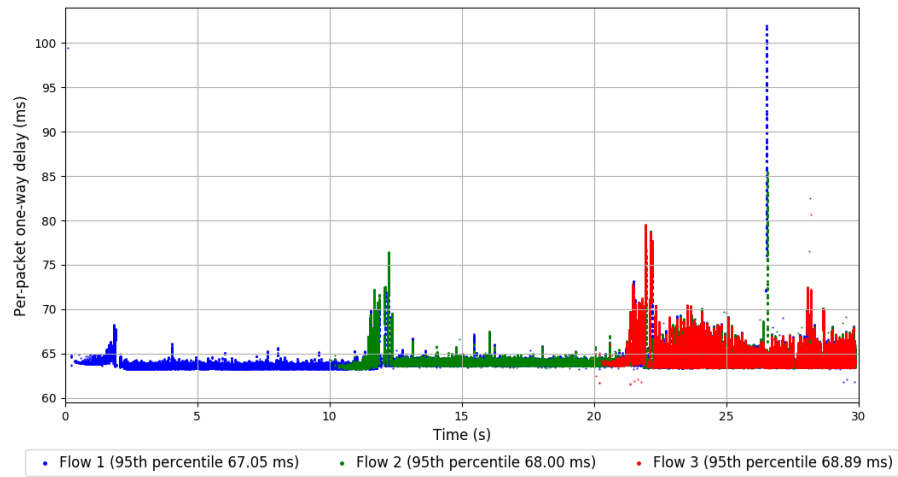
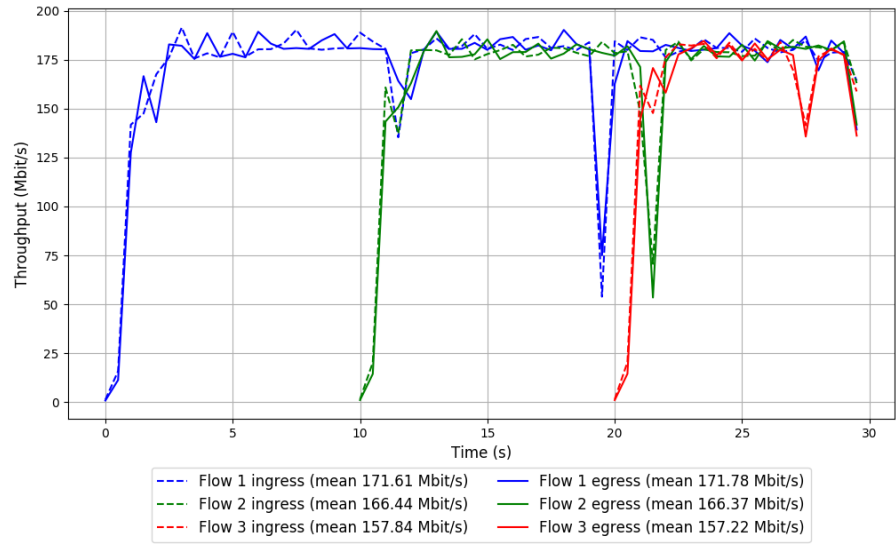
-- Flow 3:

Average throughput: 157.22 Mbit/s

95th percentile per-packet one-way delay: 68.893 ms

Loss rate: 1.51%

Run 8: Report of TCP BBR — Data Link

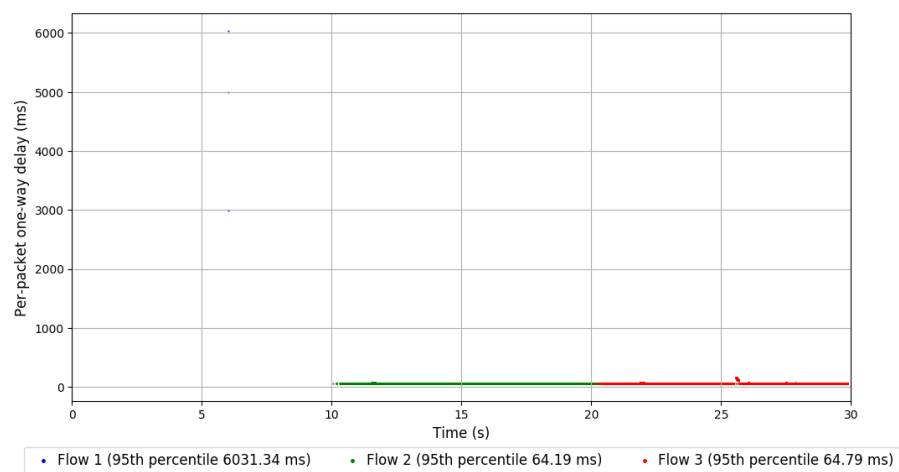
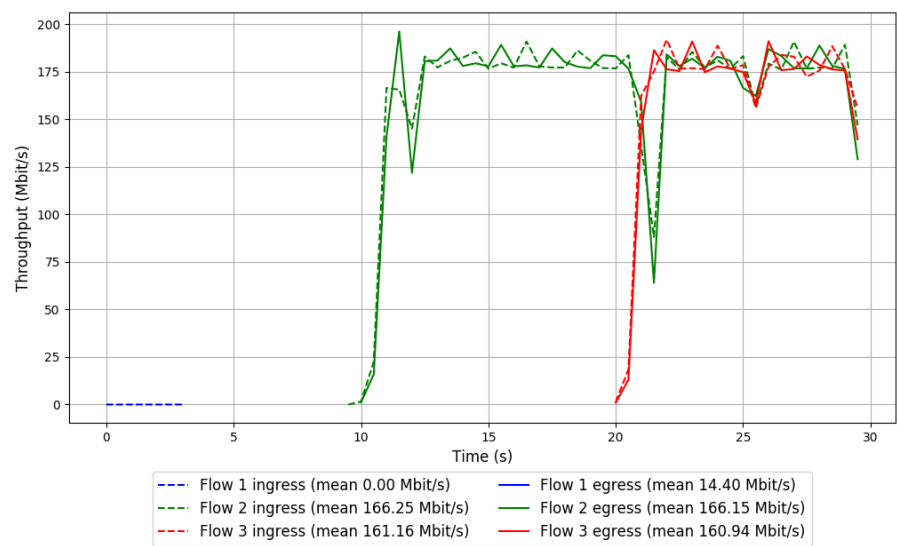


Run 9: Statistics of TCP BBR

Start at: 2017-12-21 06:51:01

End at: 2017-12-21 06:51:31

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-21 07:04:50

End at: 2017-12-21 07:05:20

Below is generated by plot.py at 2017-12-21 09:53:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.91 Mbit/s

95th percentile per-packet one-way delay: 65.418 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 163.54 Mbit/s

95th percentile per-packet one-way delay: 65.106 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 161.73 Mbit/s

95th percentile per-packet one-way delay: 65.394 ms

Loss rate: 0.99%

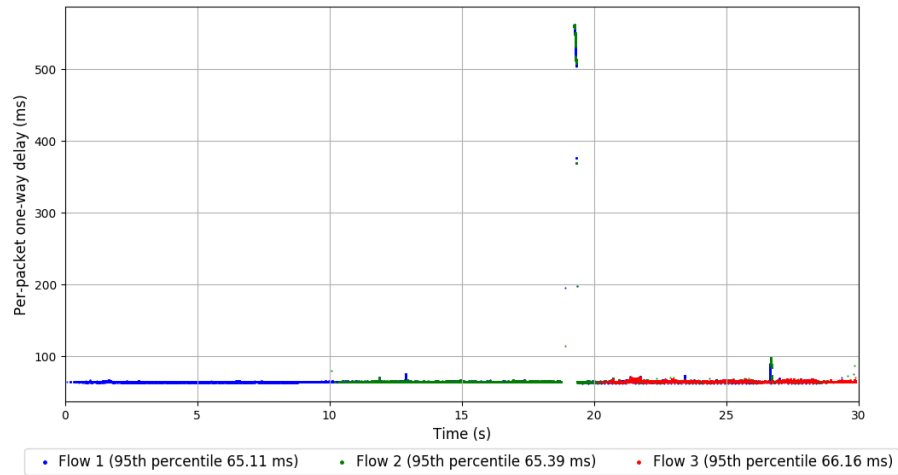
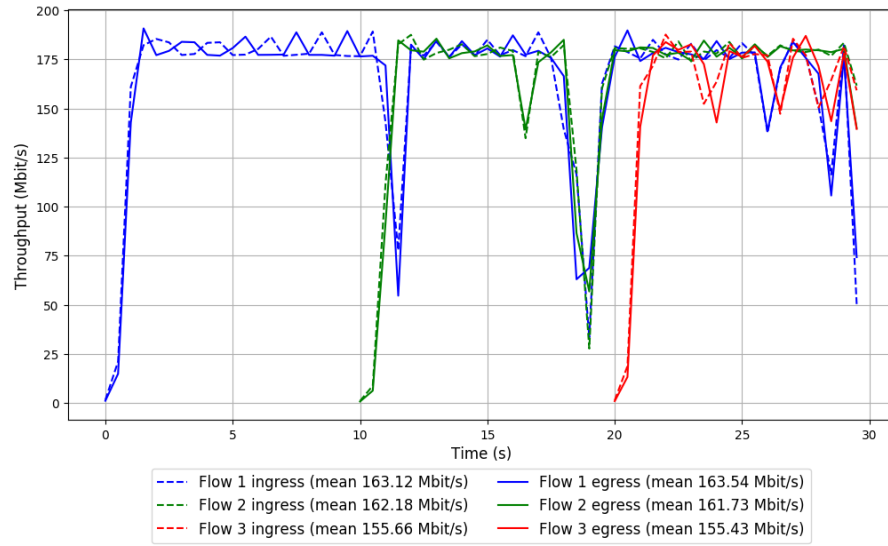
-- Flow 3:

Average throughput: 155.43 Mbit/s

95th percentile per-packet one-way delay: 66.156 ms

Loss rate: 1.43%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-21 05:05:25

End at: 2017-12-21 05:05:55

Below is generated by plot.py at 2017-12-21 09:53:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 192.71 Mbit/s

95th percentile per-packet one-way delay: 69.998 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 88.87 Mbit/s

95th percentile per-packet one-way delay: 68.856 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 154.77 Mbit/s

95th percentile per-packet one-way delay: 70.388 ms

Loss rate: 0.35%

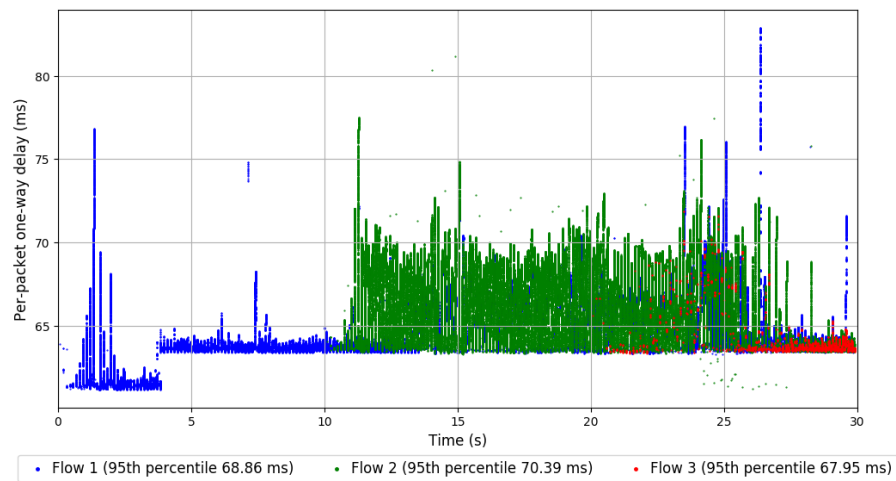
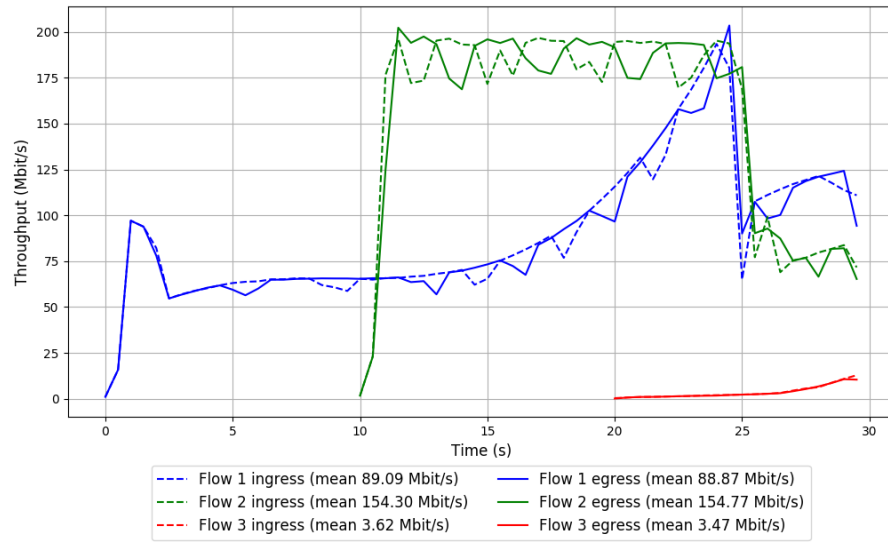
-- Flow 3:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 67.947 ms

Loss rate: 5.30%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-21 05:19:33

End at: 2017-12-21 05:20:03

Below is generated by plot.py at 2017-12-21 09:53:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.84 Mbit/s

95th percentile per-packet one-way delay: 68.937 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 67.766 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 68.164 ms

Loss rate: 0.67%

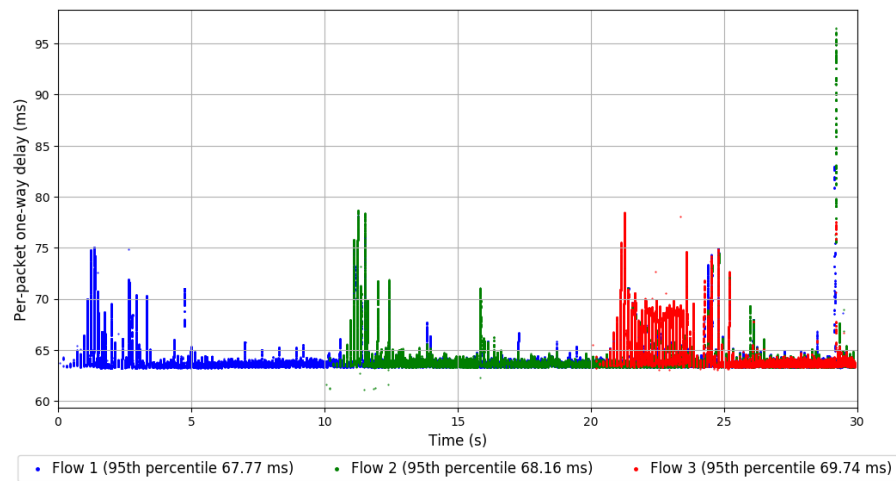
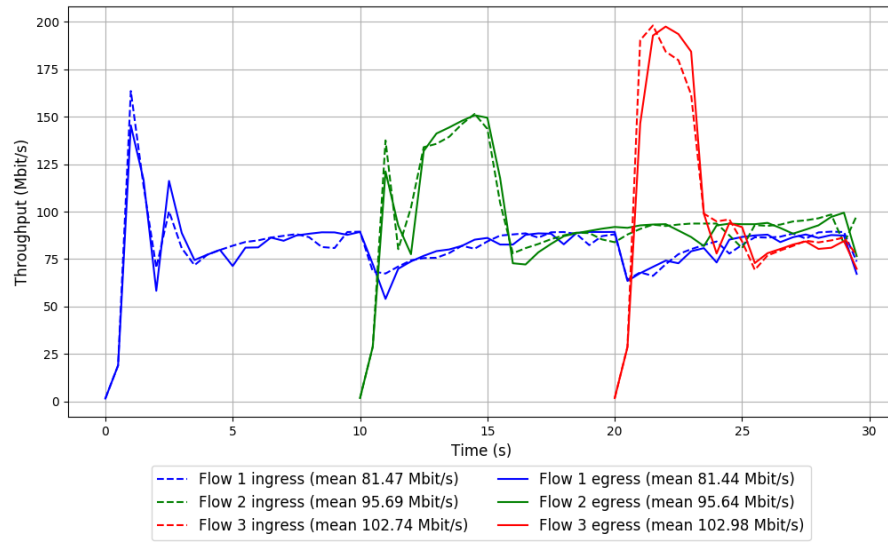
-- Flow 3:

Average throughput: 102.98 Mbit/s

95th percentile per-packet one-way delay: 69.744 ms

Loss rate: 1.05%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-21 05:33:52

End at: 2017-12-21 05:34:22

Below is generated by plot.py at 2017-12-21 09:54:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.29 Mbit/s

95th percentile per-packet one-way delay: 70.912 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 69.120 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 154.63 Mbit/s

95th percentile per-packet one-way delay: 73.759 ms

Loss rate: 0.73%

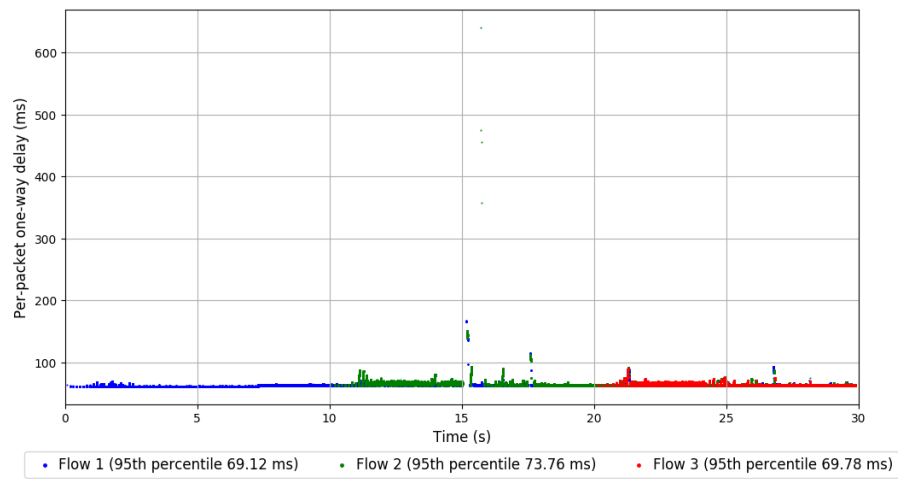
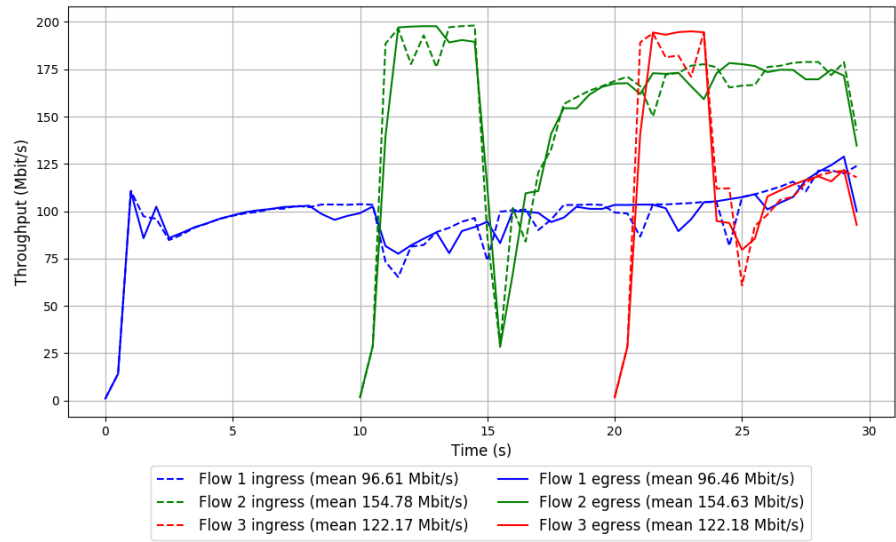
-- Flow 3:

Average throughput: 122.18 Mbit/s

95th percentile per-packet one-way delay: 69.782 ms

Loss rate: 1.27%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-21 05:48:00

End at: 2017-12-21 05:48:30

Below is generated by plot.py at 2017-12-21 09:54:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.47 Mbit/s

95th percentile per-packet one-way delay: 70.690 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 108.07 Mbit/s

95th percentile per-packet one-way delay: 70.181 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 134.84 Mbit/s

95th percentile per-packet one-way delay: 69.466 ms

Loss rate: 0.41%

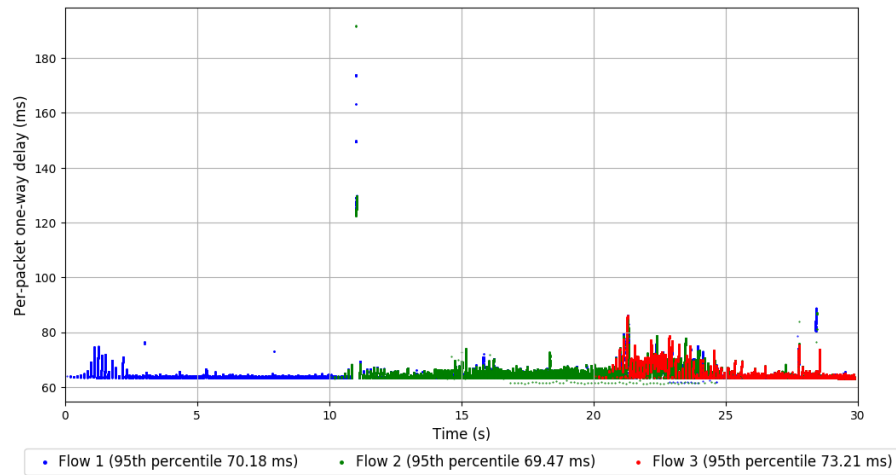
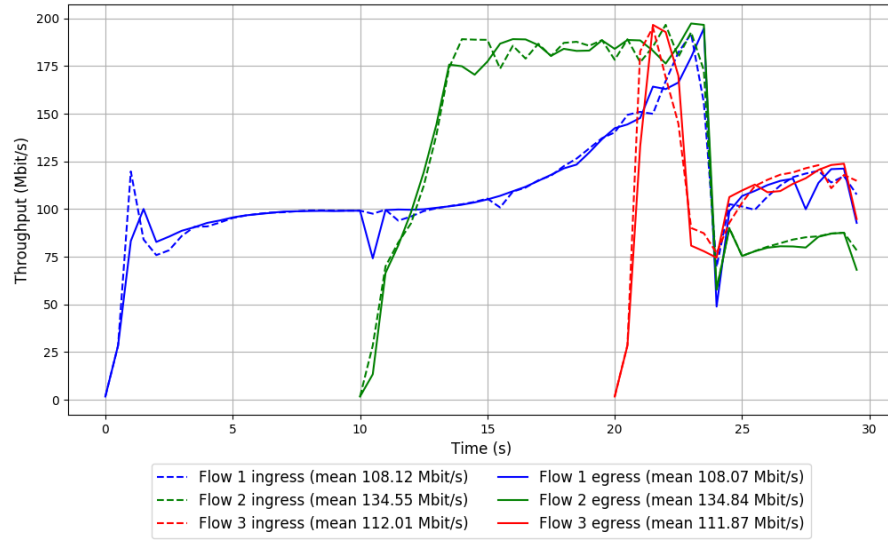
-- Flow 3:

Average throughput: 111.87 Mbit/s

95th percentile per-packet one-way delay: 73.209 ms

Loss rate: 1.40%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-21 06:02:26

End at: 2017-12-21 06:02:56

Below is generated by plot.py at 2017-12-21 09:54:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.88 Mbit/s

95th percentile per-packet one-way delay: 64.583 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 109.55 Mbit/s

95th percentile per-packet one-way delay: 64.732 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 119.22 Mbit/s

95th percentile per-packet one-way delay: 64.421 ms

Loss rate: 0.85%

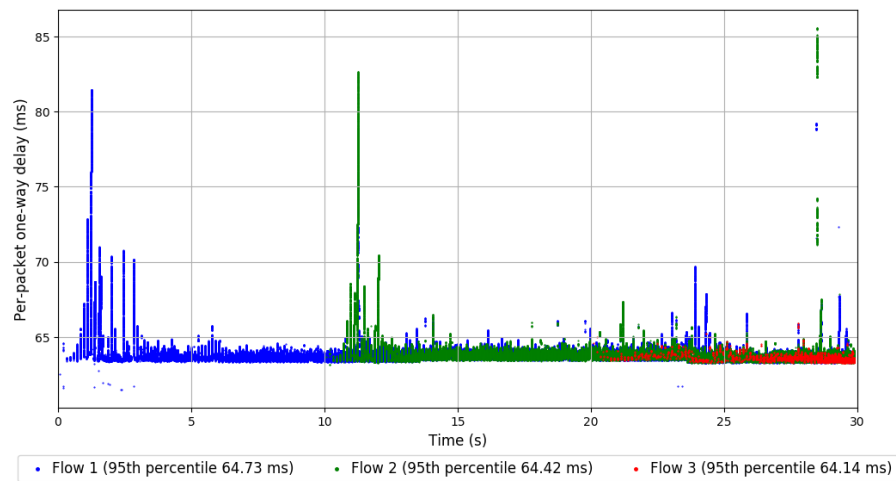
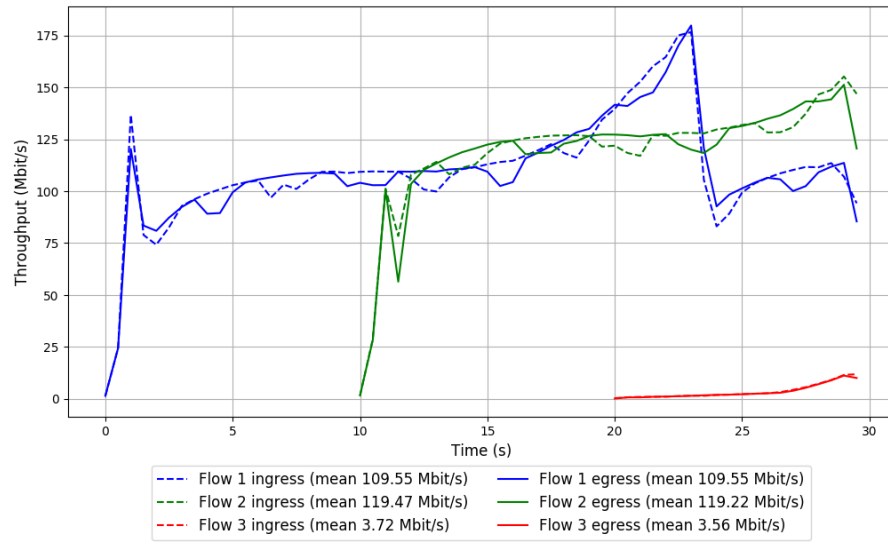
-- Flow 3:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 64.142 ms

Loss rate: 5.34%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-21 06:16:31

End at: 2017-12-21 06:17:01

Below is generated by plot.py at 2017-12-21 09:54:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.77 Mbit/s

95th percentile per-packet one-way delay: 66.381 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 107.65 Mbit/s

95th percentile per-packet one-way delay: 65.815 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 120.44 Mbit/s

95th percentile per-packet one-way delay: 67.136 ms

Loss rate: 0.64%

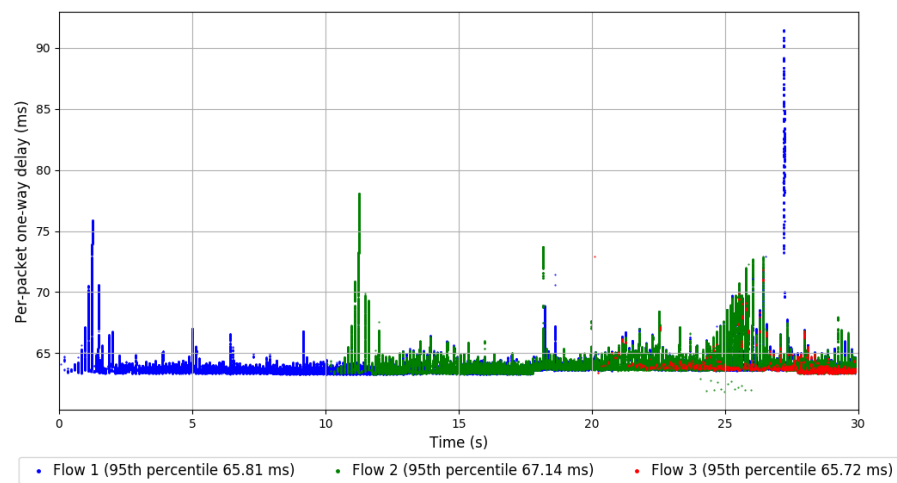
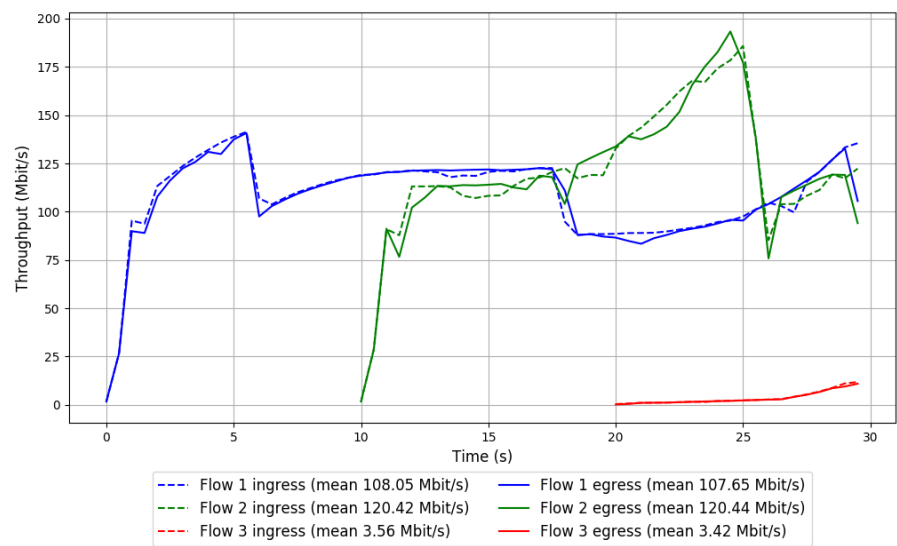
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 65.721 ms

Loss rate: 5.26%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-21 06:30:43

End at: 2017-12-21 06:31:13

Below is generated by plot.py at 2017-12-21 09:54:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.53 Mbit/s

95th percentile per-packet one-way delay: 69.253 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 101.96 Mbit/s

95th percentile per-packet one-way delay: 68.801 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 117.05 Mbit/s

95th percentile per-packet one-way delay: 69.423 ms

Loss rate: 0.57%

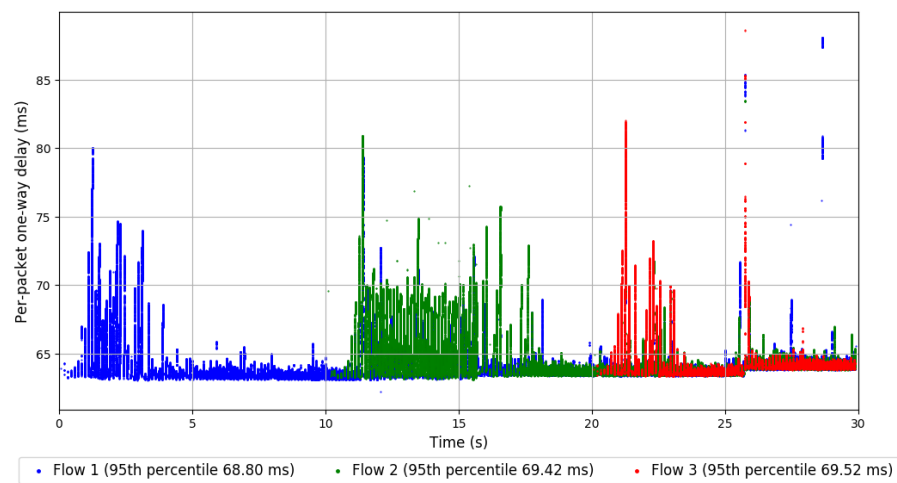
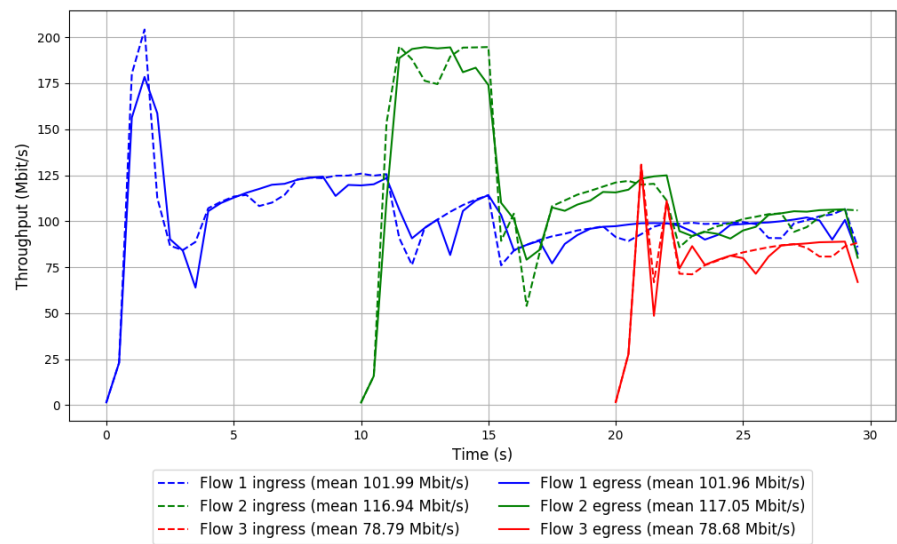
-- Flow 3:

Average throughput: 78.68 Mbit/s

95th percentile per-packet one-way delay: 69.523 ms

Loss rate: 1.42%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-21 06:44:57

End at: 2017-12-21 06:45:27

Below is generated by plot.py at 2017-12-21 09:55:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.09 Mbit/s

95th percentile per-packet one-way delay: 68.149 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 82.25 Mbit/s

95th percentile per-packet one-way delay: 69.048 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 64.699 ms

Loss rate: 0.86%

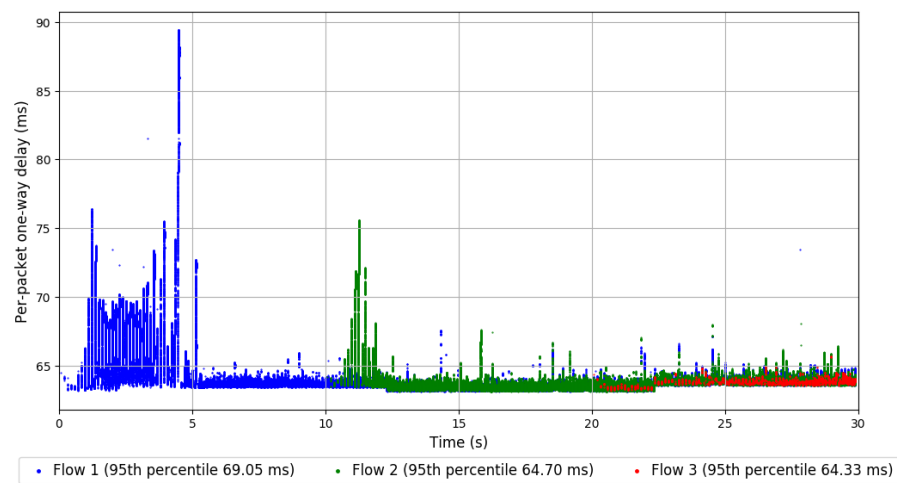
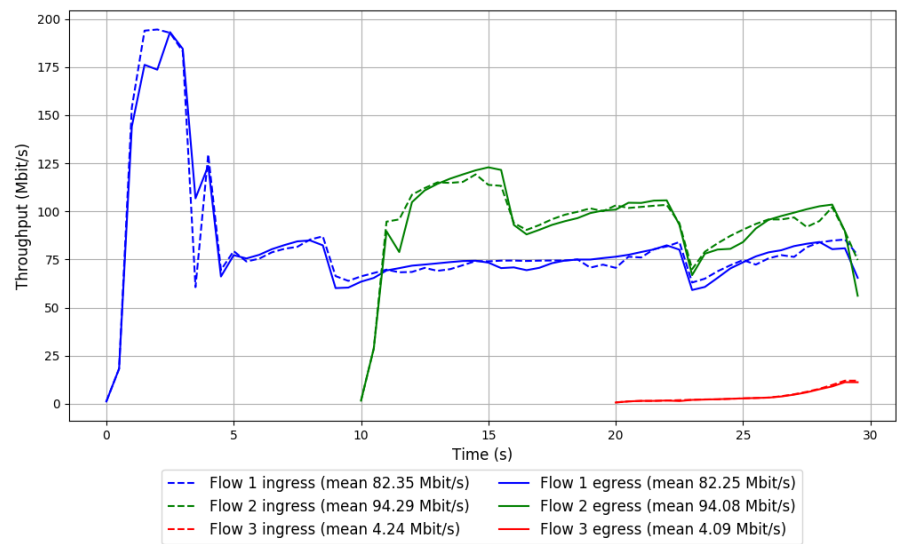
-- Flow 3:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 64.334 ms

Loss rate: 4.67%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-21 06:58:42

End at: 2017-12-21 06:59:12

Below is generated by plot.py at 2017-12-21 09:56:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.58 Mbit/s

95th percentile per-packet one-way delay: 68.795 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 67.430 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 112.88 Mbit/s

95th percentile per-packet one-way delay: 68.345 ms

Loss rate: 0.58%

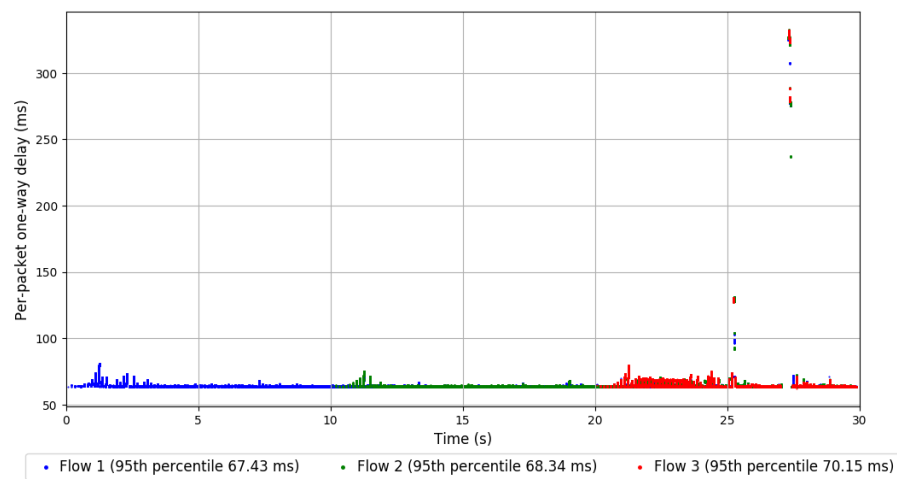
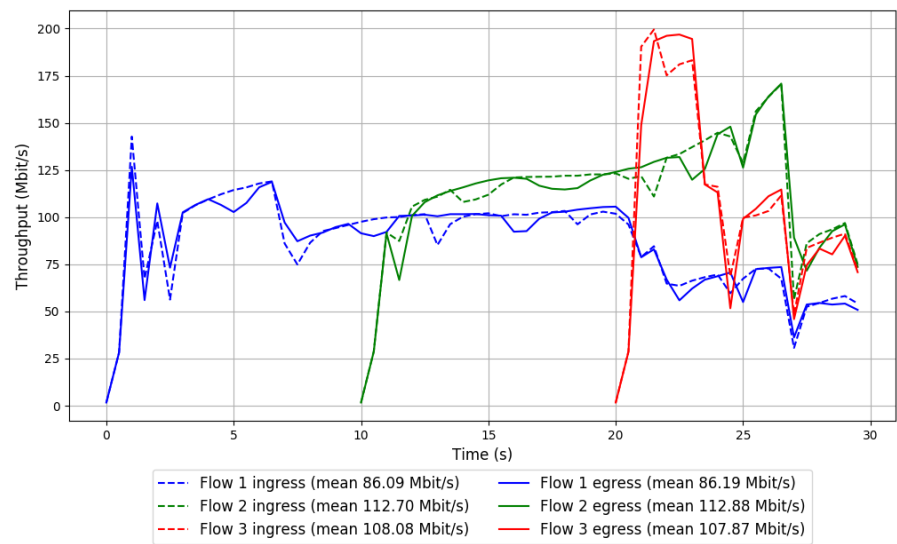
-- Flow 3:

Average throughput: 107.87 Mbit/s

95th percentile per-packet one-way delay: 70.152 ms

Loss rate: 1.49%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-21 07:12:58

End at: 2017-12-21 07:13:28

Below is generated by plot.py at 2017-12-21 09:56:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.06 Mbit/s

95th percentile per-packet one-way delay: 64.454 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 65.056 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 109.67 Mbit/s

95th percentile per-packet one-way delay: 64.122 ms

Loss rate: 0.72%

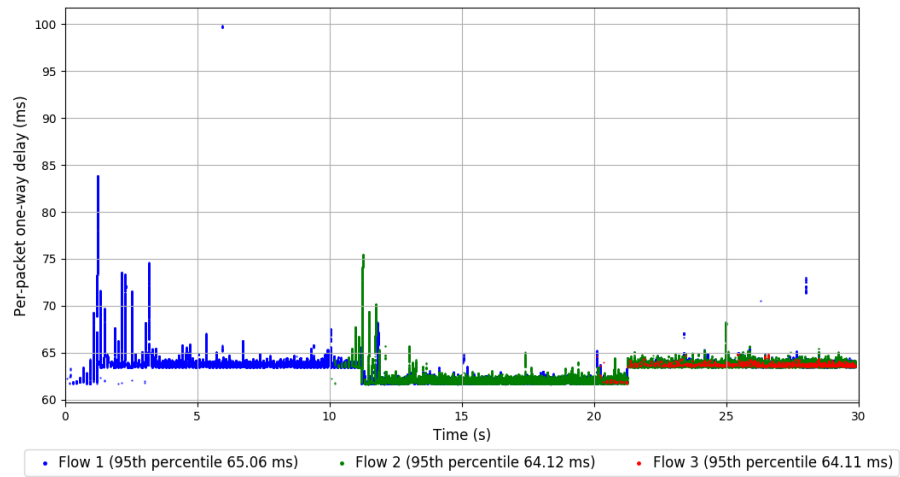
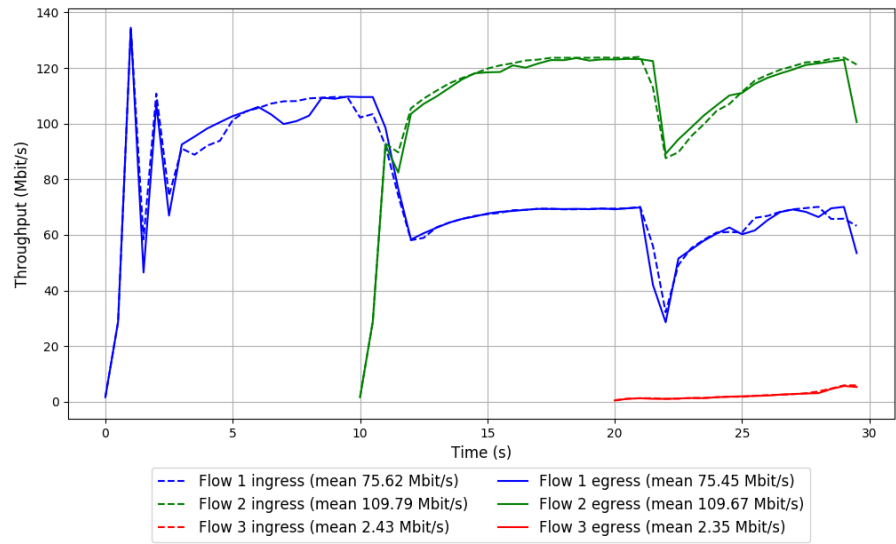
-- Flow 3:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 64.105 ms

Loss rate: 4.40%

Run 10: Report of TCP Cubic — Data Link

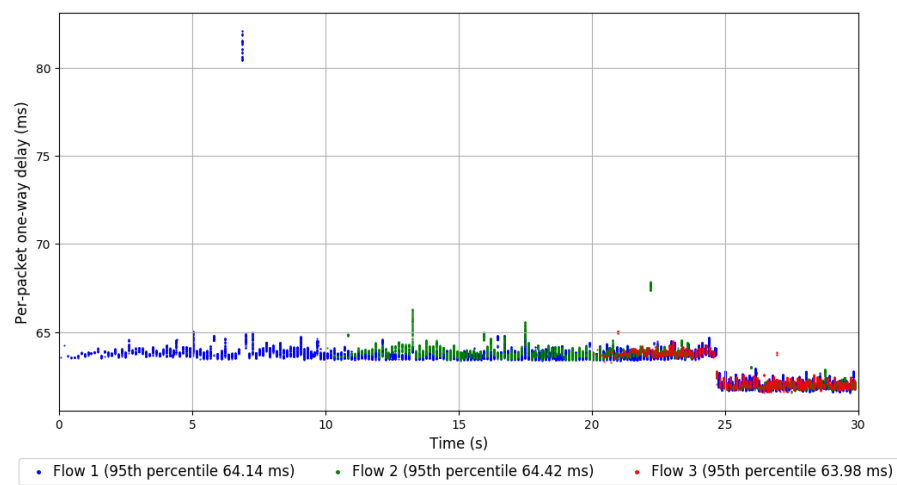
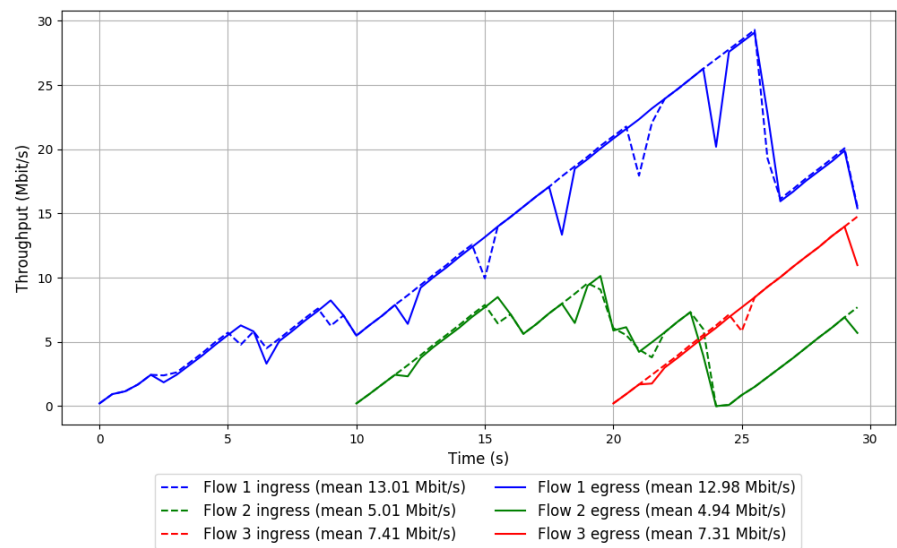


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-21 04:58:14
End at: 2017-12-21 04:58:44

# Below is generated by plot.py at 2017-12-21 09:56:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.63 Mbit/s
95th percentile per-packet one-way delay: 64.177 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 64.142 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 64.418 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 63.977 ms
Loss rate: 2.58%
```


Run 1: Report of LEDBAT — Data Link

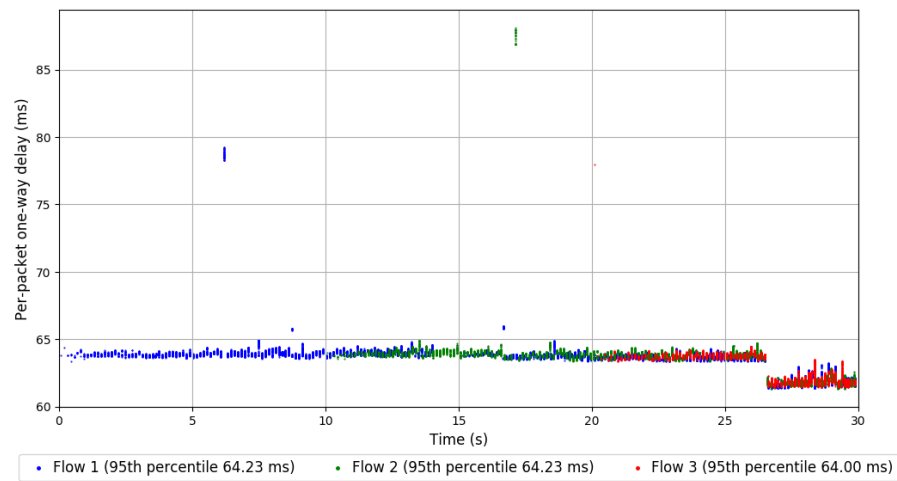
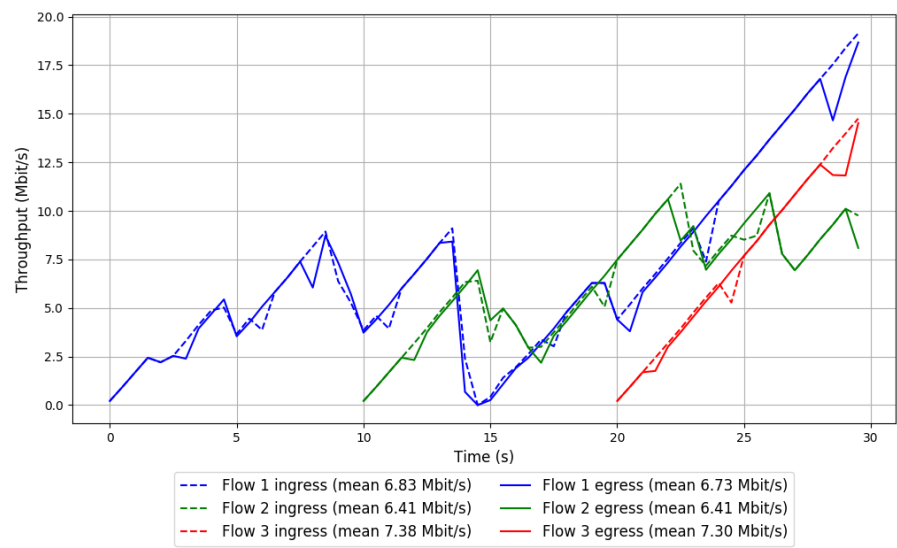


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-21 05:12:33
End at: 2017-12-21 05:13:03

# Below is generated by plot.py at 2017-12-21 09:56:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 64.203 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 64.230 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 64.226 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 64.003 ms
Loss rate: 2.58%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-21 05:26:46

End at: 2017-12-21 05:27:16

Below is generated by plot.py at 2017-12-21 09:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 64.079 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 64.088 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 1.75%

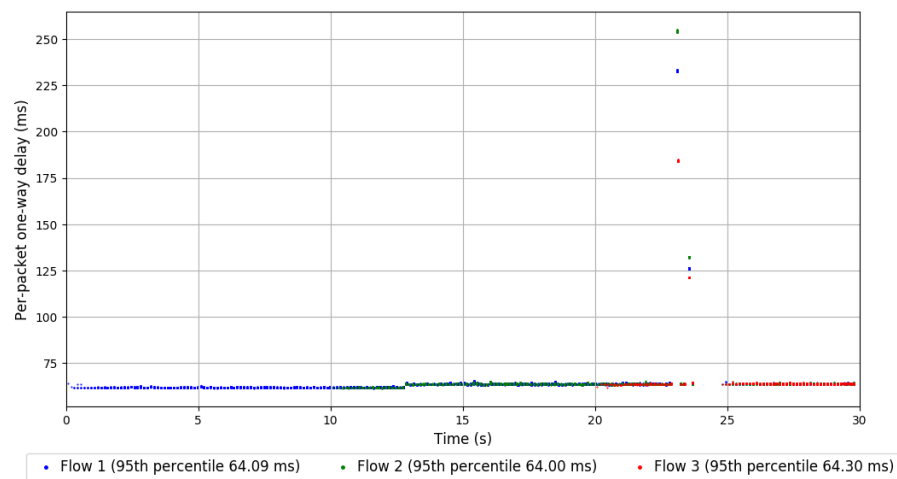
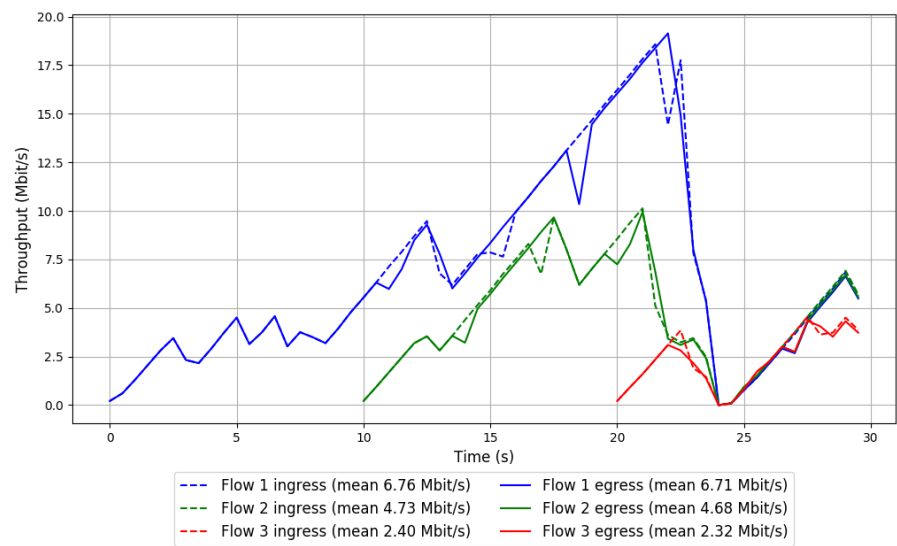
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 64.301 ms

Loss rate: 4.61%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-21 05:41:08

End at: 2017-12-21 05:41:38

Below is generated by plot.py at 2017-12-21 09:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.05 Mbit/s

95th percentile per-packet one-way delay: 64.172 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 9.48 Mbit/s

95th percentile per-packet one-way delay: 64.140 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 64.191 ms

Loss rate: 1.30%

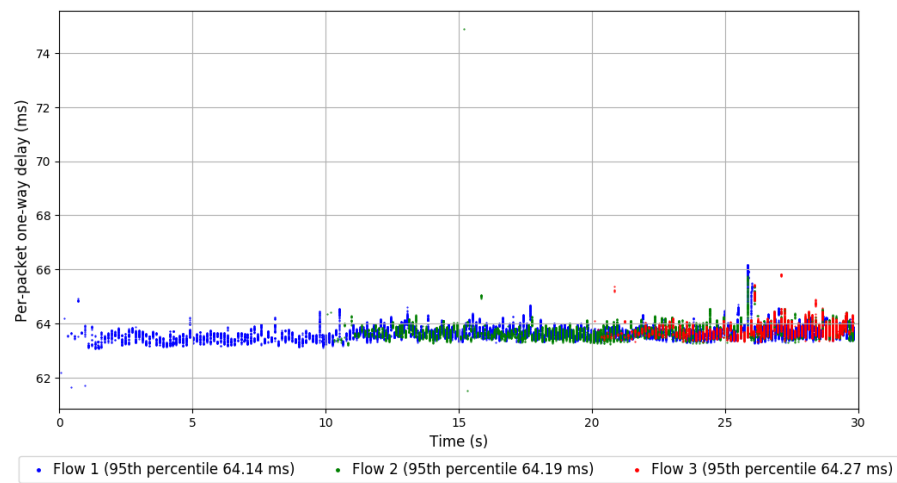
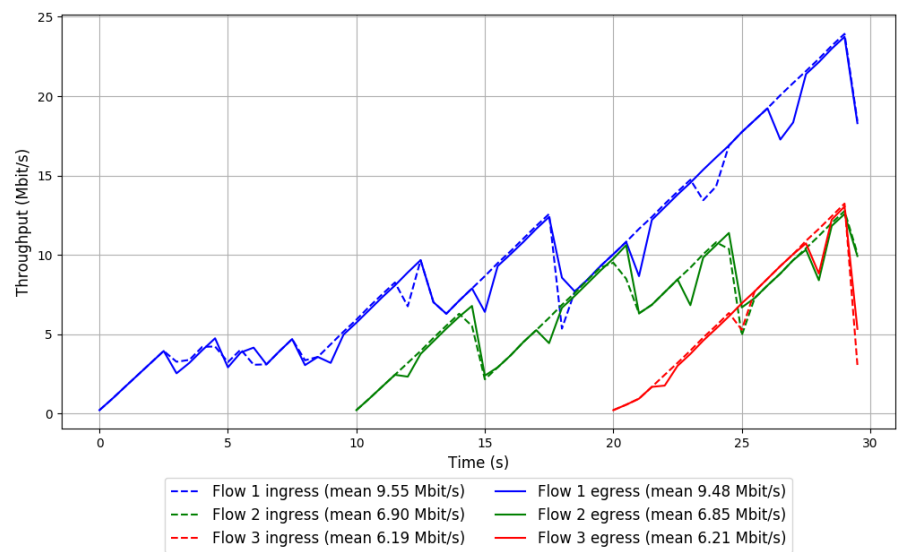
-- Flow 3:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 64.266 ms

Loss rate: 0.91%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-21 05:55:19

End at: 2017-12-21 05:55:49

Below is generated by plot.py at 2017-12-21 09:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 64.174 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 64.136 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 64.201 ms

Loss rate: 1.07%

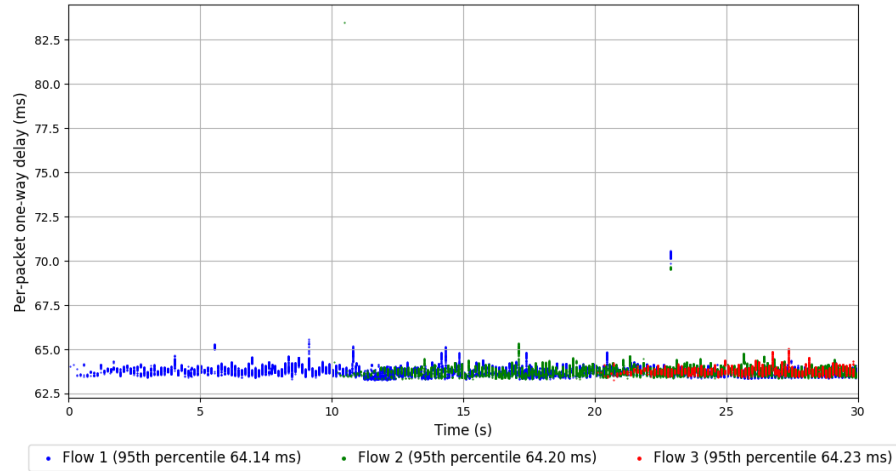
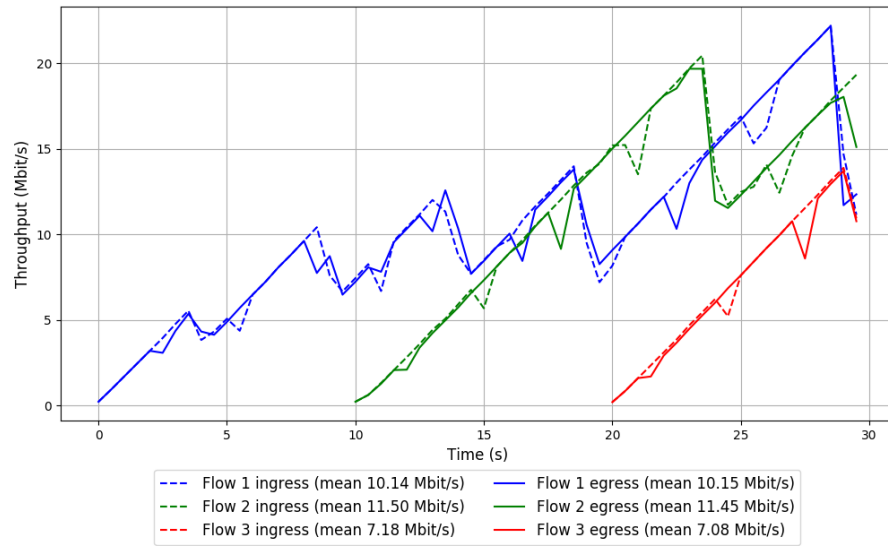
-- Flow 3:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 64.232 ms

Loss rate: 2.63%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-21 06:09:33

End at: 2017-12-21 06:10:03

Below is generated by plot.py at 2017-12-21 09:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.86 Mbit/s

95th percentile per-packet one-way delay: 64.618 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 64.526 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 64.736 ms

Loss rate: 1.21%

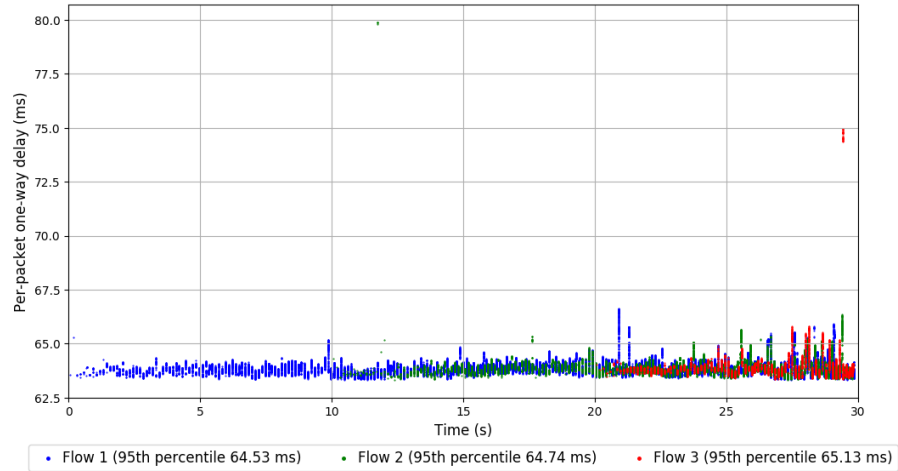
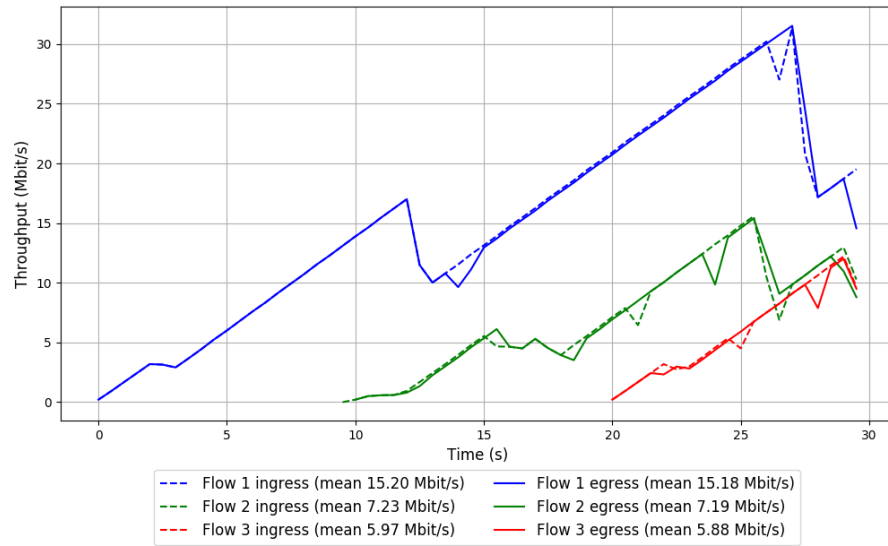
-- Flow 3:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 65.131 ms

Loss rate: 2.79%

Run 6: Report of LEDBAT — Data Link

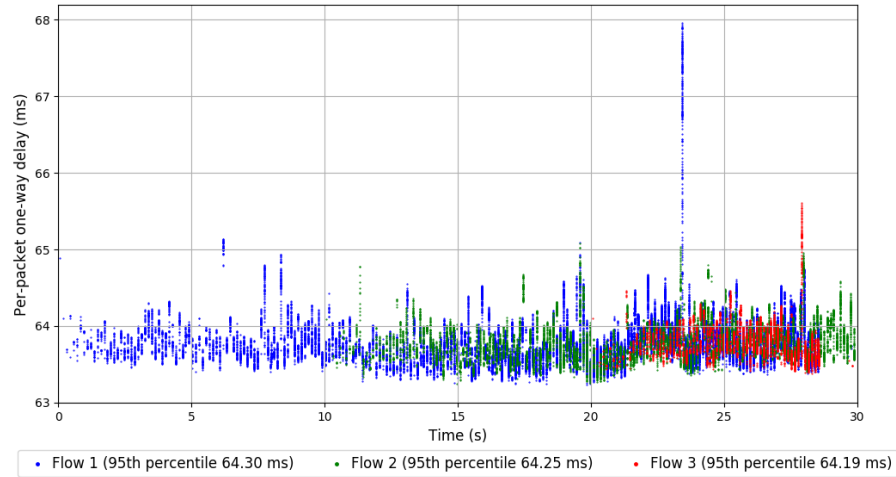
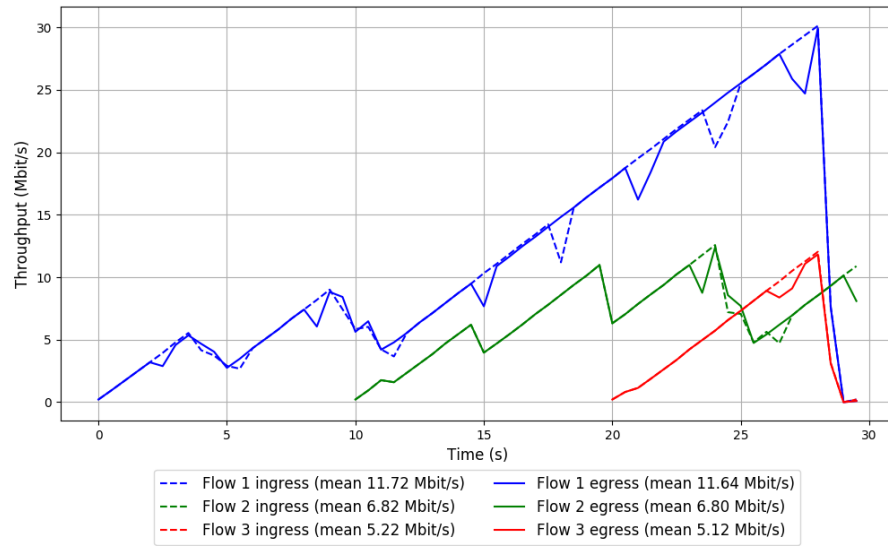


```
Run 7: Statistics of LEDBAT

Start at: 2017-12-21 06:23:38
End at: 2017-12-21 06:24:08

# Below is generated by plot.py at 2017-12-21 09:56:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 64.276 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 64.299 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 64.249 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 64.192 ms
Loss rate: 3.17%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-21 06:37:57

End at: 2017-12-21 06:38:27

Below is generated by plot.py at 2017-12-21 09:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.18 Mbit/s

95th percentile per-packet one-way delay: 64.520 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 64.568 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 64.345 ms

Loss rate: 1.31%

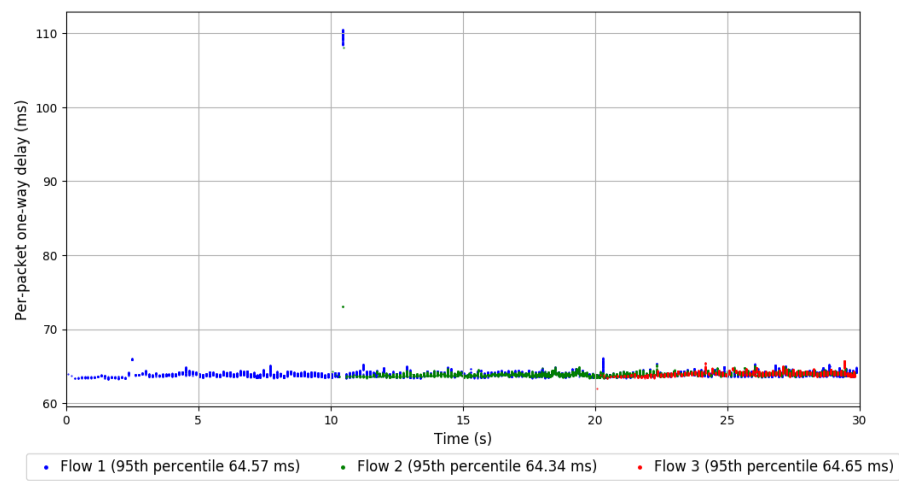
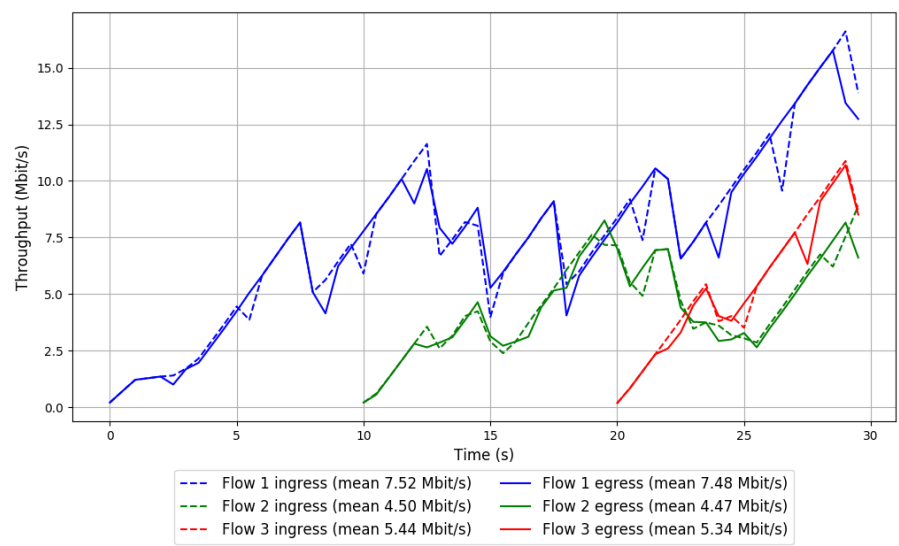
-- Flow 3:

Average throughput: 5.34 Mbit/s

95th percentile per-packet one-way delay: 64.649 ms

Loss rate: 3.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-21 06:51:51

End at: 2017-12-21 06:52:21

Below is generated by plot.py at 2017-12-21 09:56:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 64.406 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 64.304 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 64.574 ms

Loss rate: 0.54%

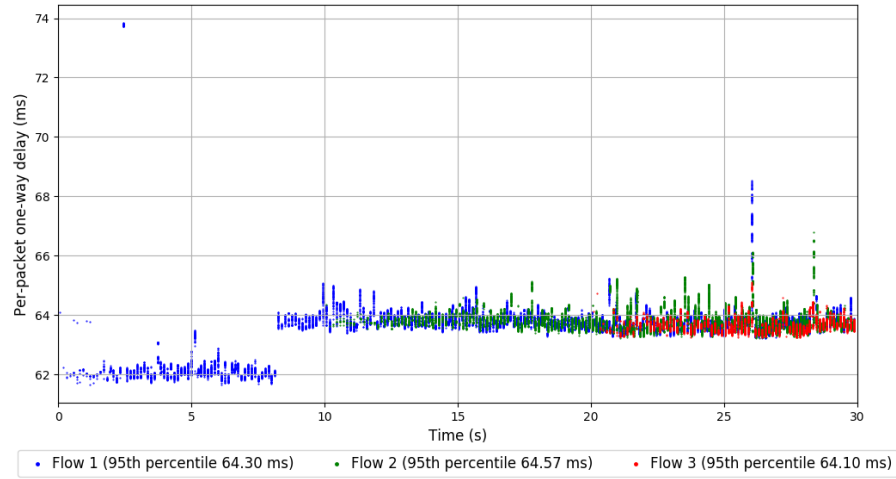
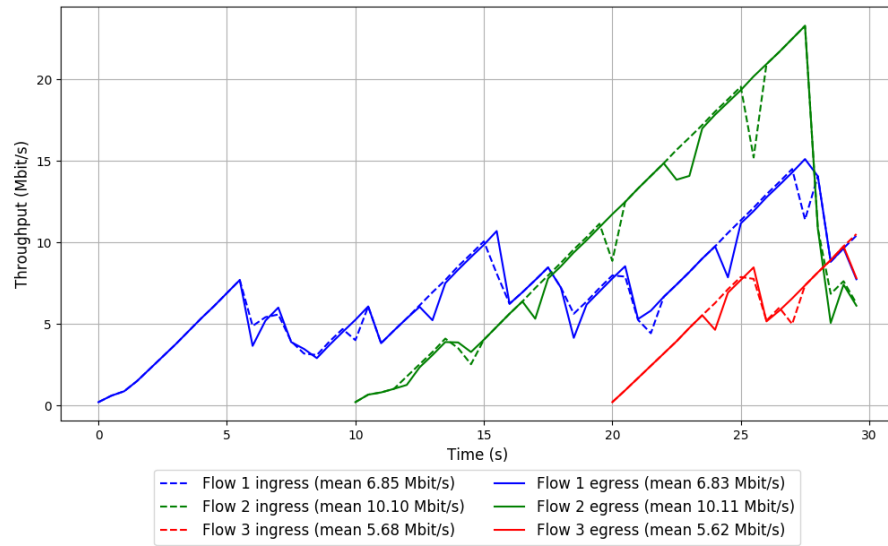
-- Flow 3:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 64.101 ms

Loss rate: 2.39%

Run 9: Report of LEDBAT — Data Link

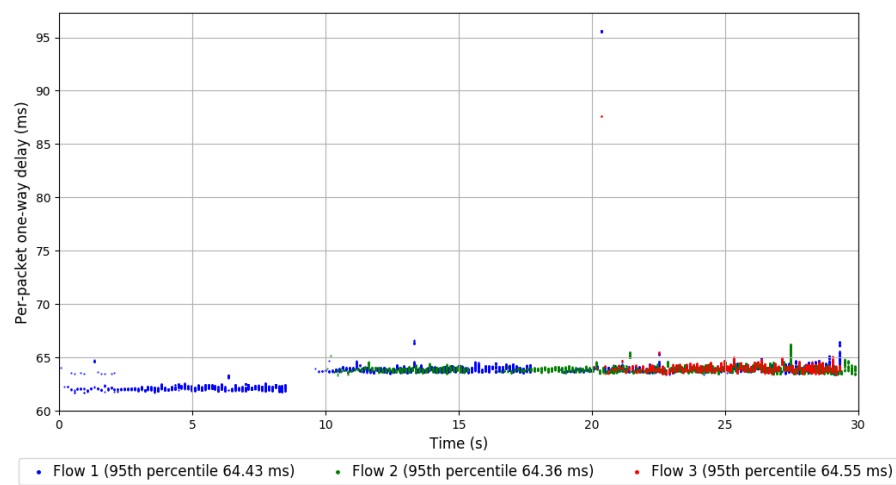
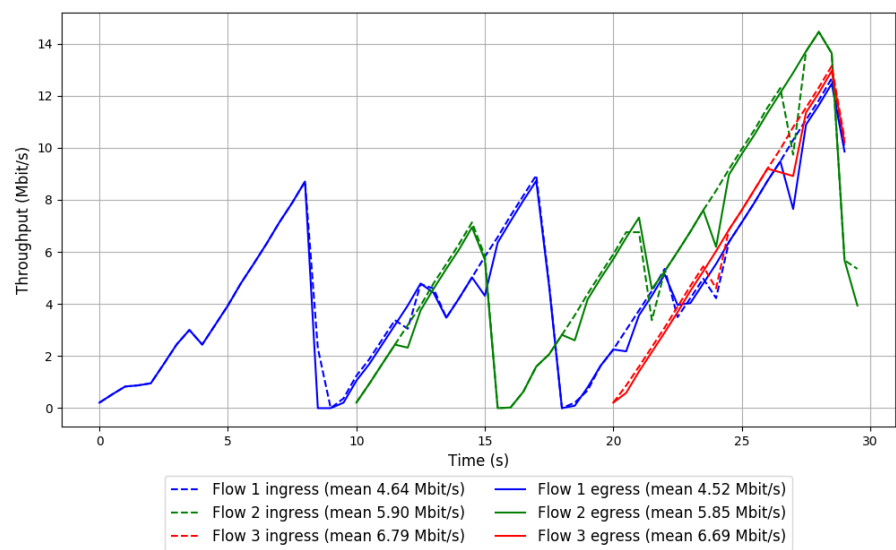


```
Run 10: Statistics of LEDBAT

Start at: 2017-12-21 07:05:50
End at: 2017-12-21 07:06:20

# Below is generated by plot.py at 2017-12-21 09:56:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.39 Mbit/s
95th percentile per-packet one-way delay: 64.430 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 64.429 ms
Loss rate: 3.03%
-- Flow 2:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 64.359 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 64.548 ms
Loss rate: 2.76%
```

Run 10: Report of LEDBAT — Data Link

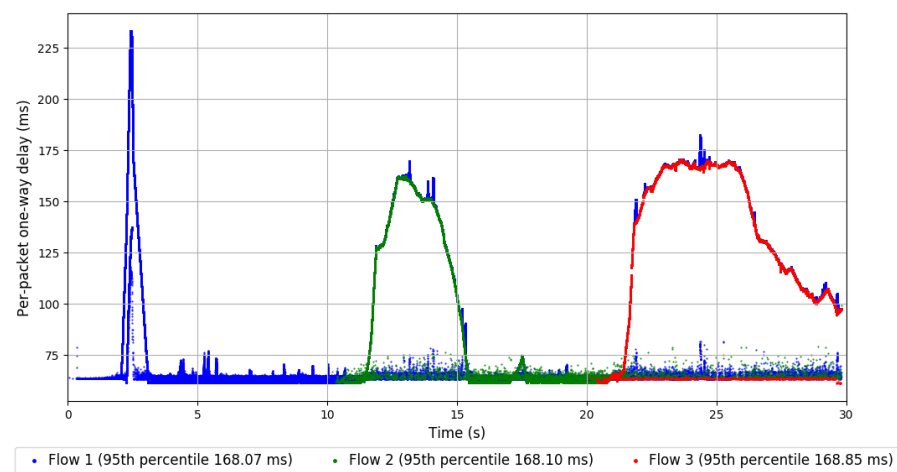
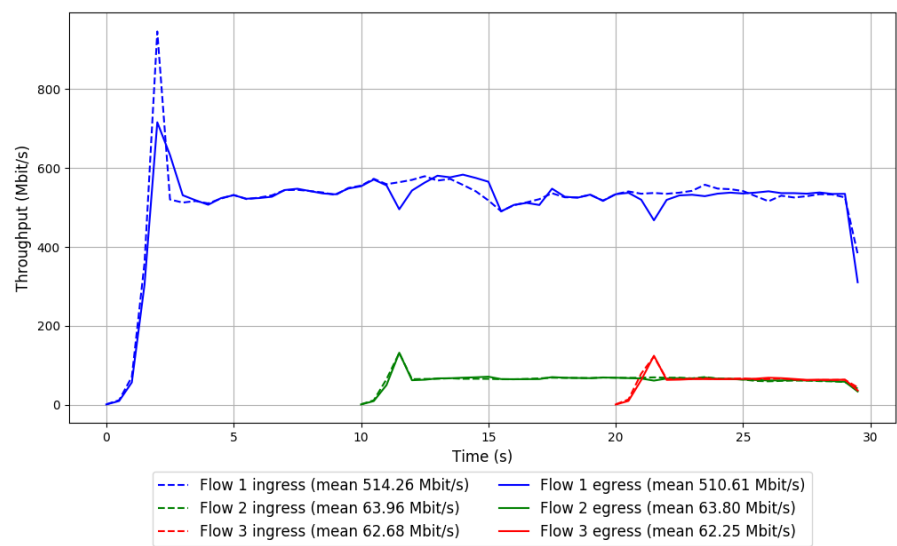


```
Run 1: Statistics of PCC

Start at: 2017-12-21 04:54:57
End at: 2017-12-21 04:55:27

# Below is generated by plot.py at 2017-12-21 10:04:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 573.21 Mbit/s
95th percentile per-packet one-way delay: 168.113 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 510.61 Mbit/s
95th percentile per-packet one-way delay: 168.068 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 63.80 Mbit/s
95th percentile per-packet one-way delay: 168.100 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 62.25 Mbit/s
95th percentile per-packet one-way delay: 168.850 ms
Loss rate: 1.99%
```

Run 1: Report of PCC — Data Link

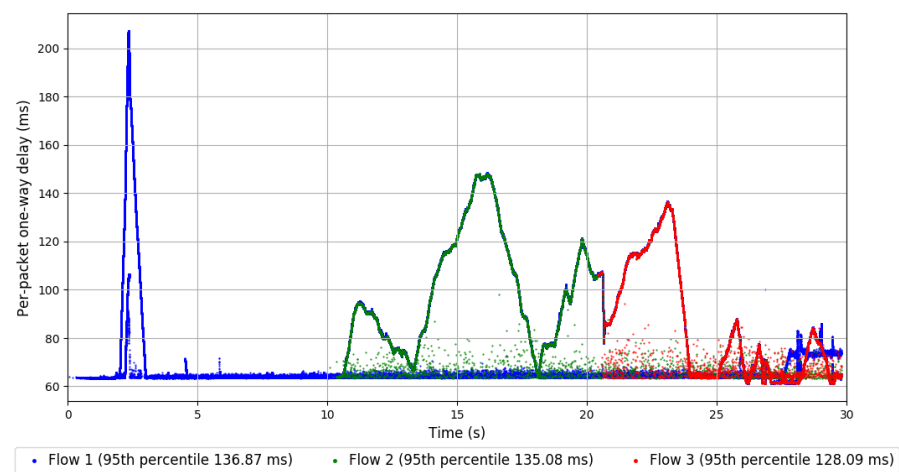
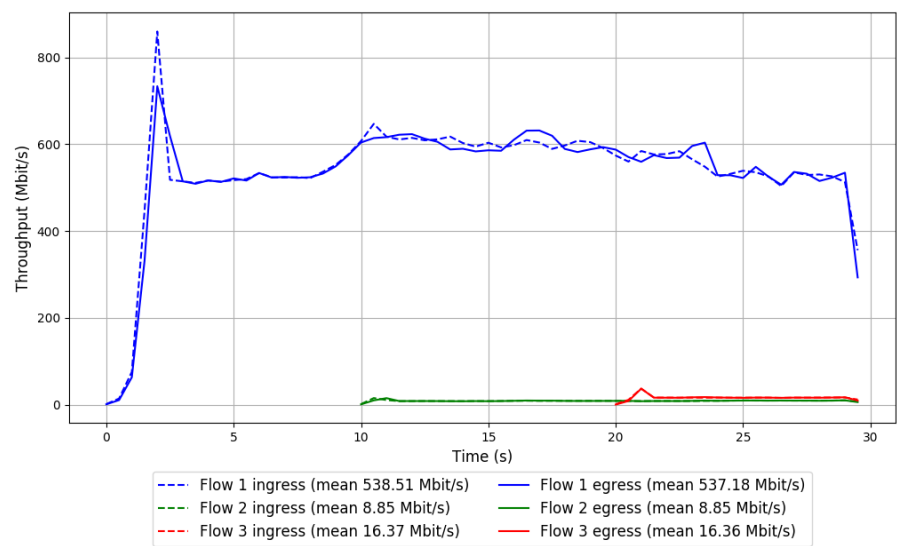


```
Run 2: Statistics of PCC

Start at: 2017-12-21 05:09:33
End at: 2017-12-21 05:10:03

# Below is generated by plot.py at 2017-12-21 10:04:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 548.31 Mbit/s
95th percentile per-packet one-way delay: 136.654 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 537.18 Mbit/s
95th percentile per-packet one-way delay: 136.869 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 135.084 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 16.36 Mbit/s
95th percentile per-packet one-way delay: 128.087 ms
Loss rate: 1.35%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-21 05:23:35

End at: 2017-12-21 05:24:05

Below is generated by plot.py at 2017-12-21 10:04:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 579.00 Mbit/s

95th percentile per-packet one-way delay: 180.074 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 527.58 Mbit/s

95th percentile per-packet one-way delay: 180.104 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 62.05 Mbit/s

95th percentile per-packet one-way delay: 179.744 ms

Loss rate: 2.10%

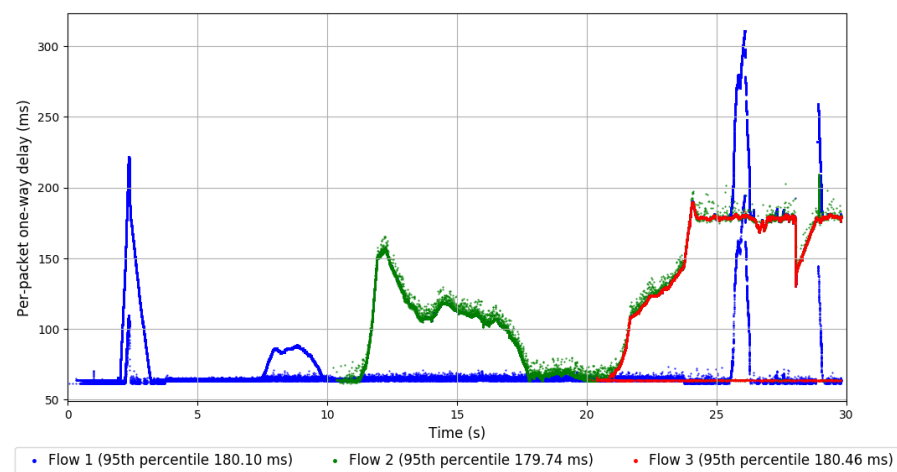
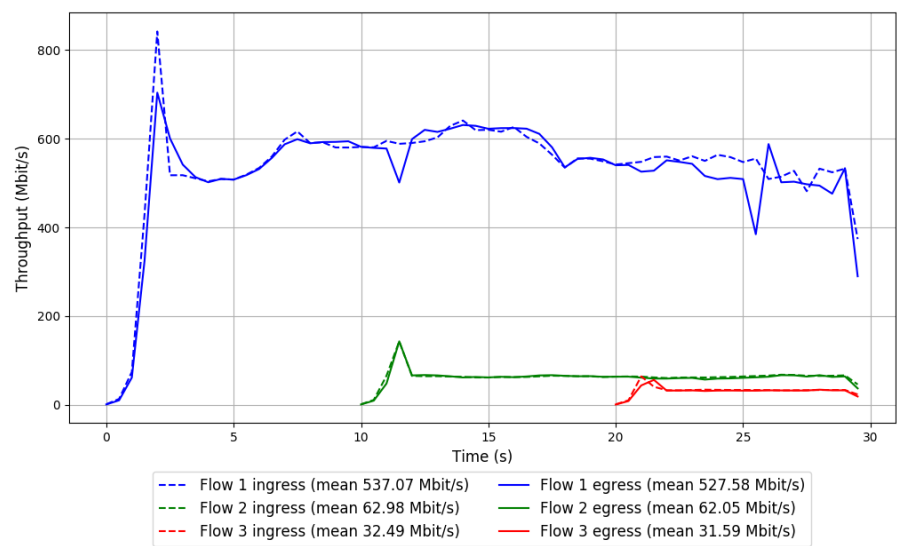
-- Flow 3:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 180.457 ms

Loss rate: 4.05%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-21 05:38:00

End at: 2017-12-21 05:38:30

Below is generated by plot.py at 2017-12-21 10:04:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 546.94 Mbit/s

95th percentile per-packet one-way delay: 181.738 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 484.42 Mbit/s

95th percentile per-packet one-way delay: 181.687 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 68.46 Mbit/s

95th percentile per-packet one-way delay: 181.705 ms

Loss rate: 1.89%

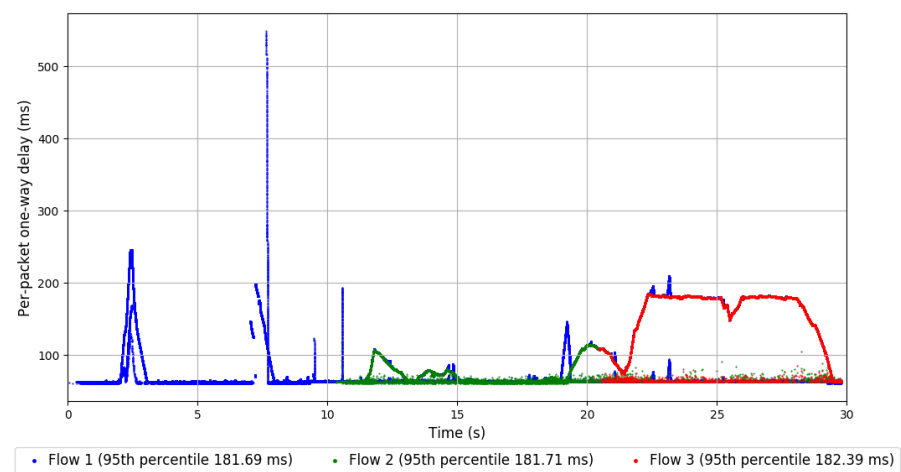
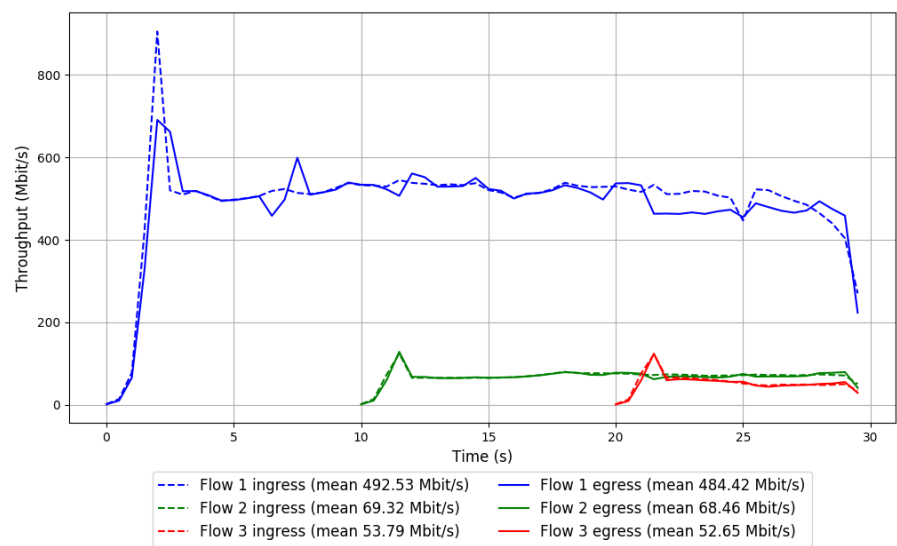
-- Flow 3:

Average throughput: 52.65 Mbit/s

95th percentile per-packet one-way delay: 182.387 ms

Loss rate: 3.40%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-21 05:52:09

End at: 2017-12-21 05:52:39

Below is generated by plot.py at 2017-12-21 10:04:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 538.17 Mbit/s

95th percentile per-packet one-way delay: 182.857 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 475.26 Mbit/s

95th percentile per-packet one-way delay: 182.734 ms

Loss rate: 2.29%

-- Flow 2:

Average throughput: 66.07 Mbit/s

95th percentile per-packet one-way delay: 182.999 ms

Loss rate: 2.32%

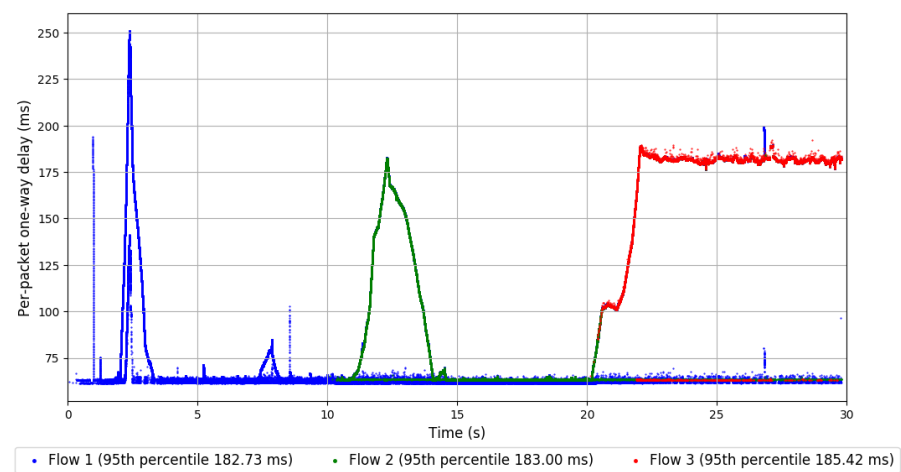
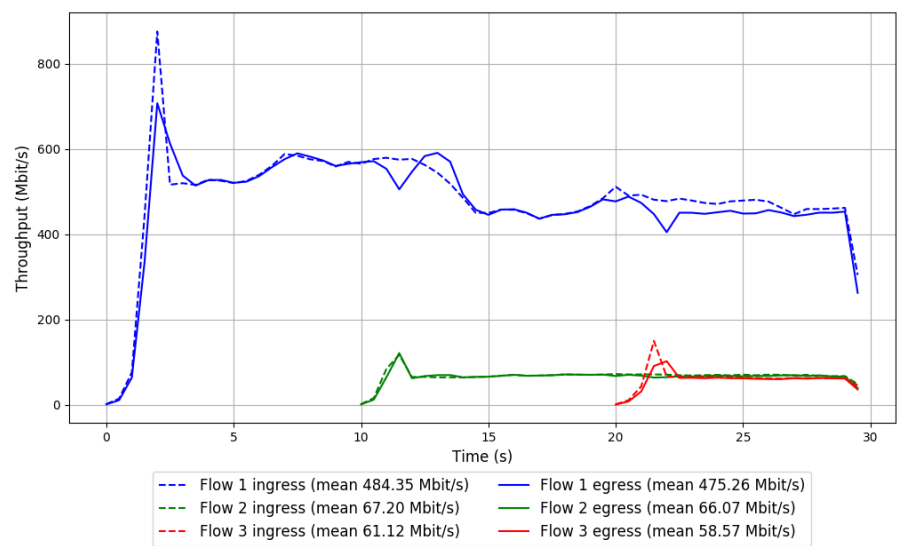
-- Flow 3:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 185.424 ms

Loss rate: 5.44%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-21 06:06:31

End at: 2017-12-21 06:07:01

Below is generated by plot.py at 2017-12-21 10:05:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 549.55 Mbit/s

95th percentile per-packet one-way delay: 139.430 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 495.53 Mbit/s

95th percentile per-packet one-way delay: 140.031 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 138.128 ms

Loss rate: 0.91%

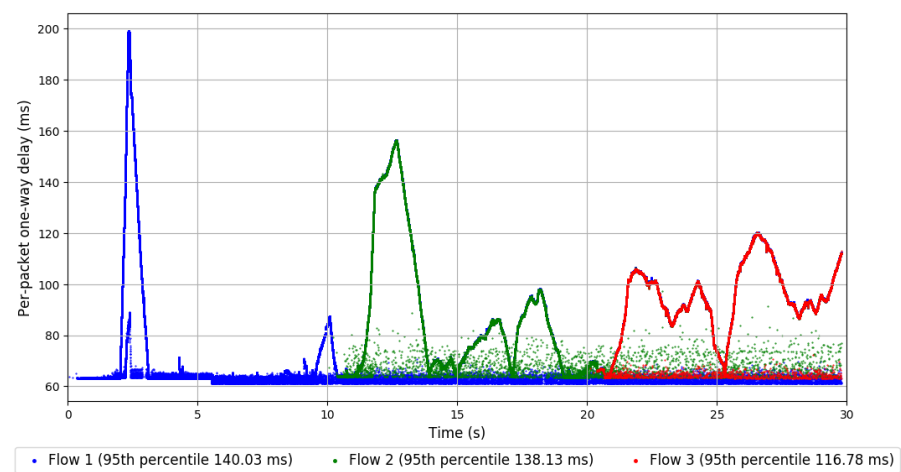
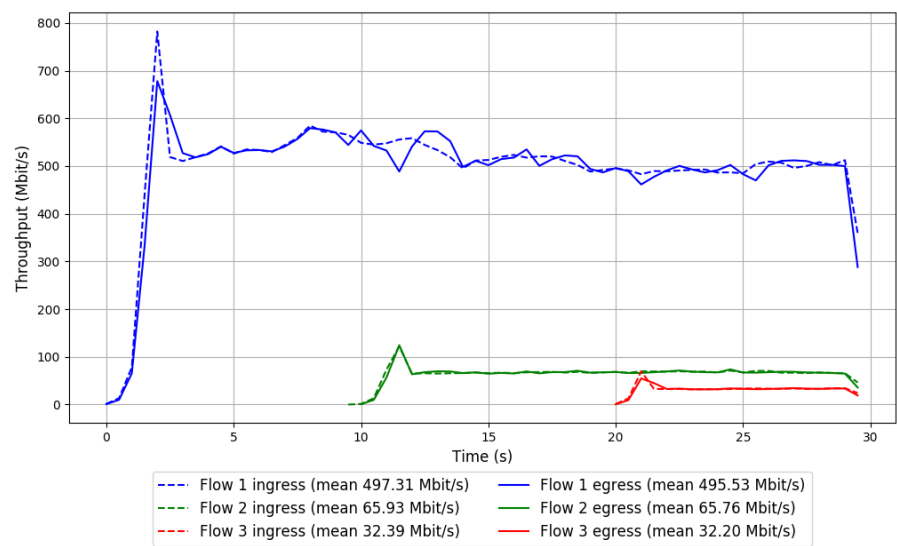
-- Flow 3:

Average throughput: 32.20 Mbit/s

95th percentile per-packet one-way delay: 116.784 ms

Loss rate: 1.91%

Run 6: Report of PCC — Data Link

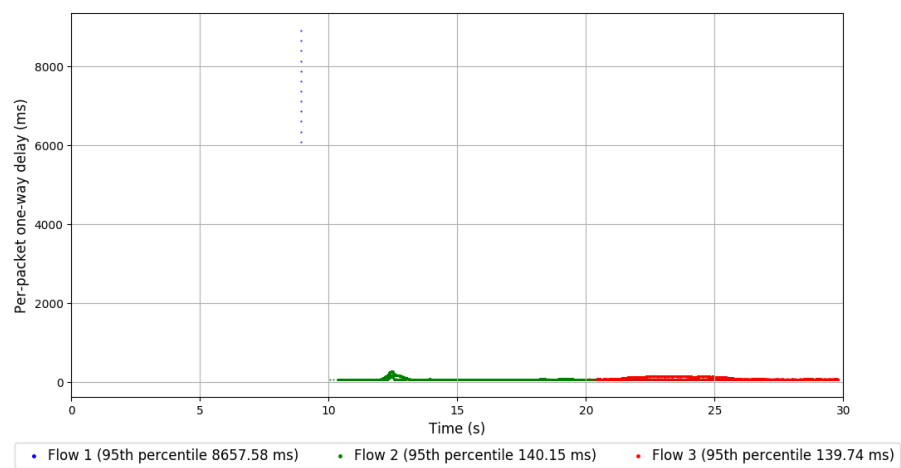
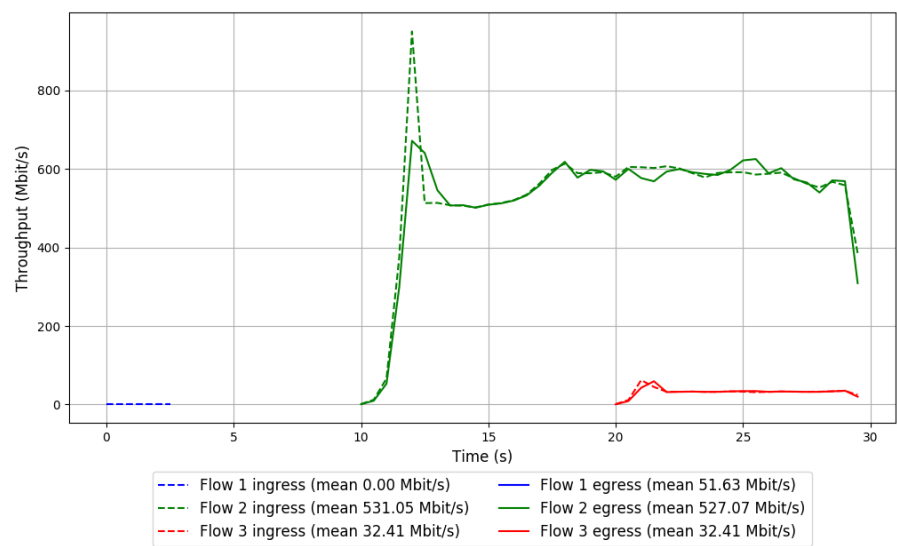


Run 7: Statistics of PCC

Start at: 2017-12-21 06:20:35

End at: 2017-12-21 06:21:05

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-21 06:34:49

End at: 2017-12-21 06:35:19

Below is generated by plot.py at 2017-12-21 10:06:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 556.59 Mbit/s

95th percentile per-packet one-way delay: 145.603 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 533.96 Mbit/s

95th percentile per-packet one-way delay: 145.734 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 142.005 ms

Loss rate: 0.90%

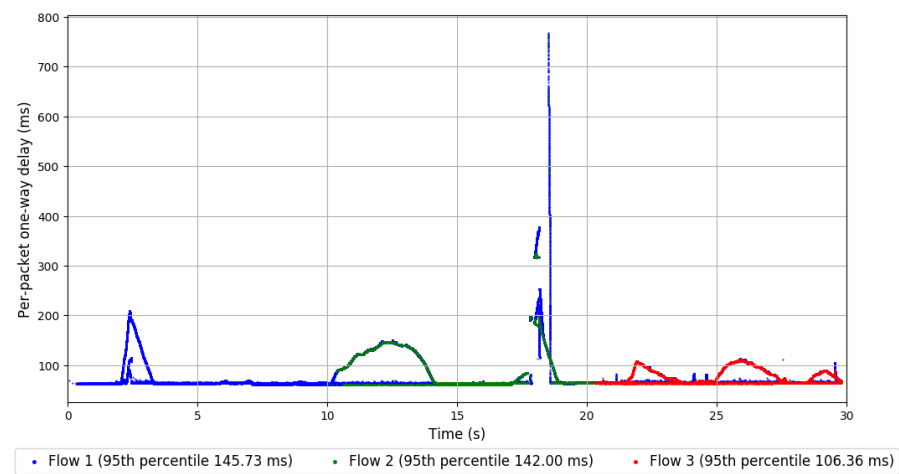
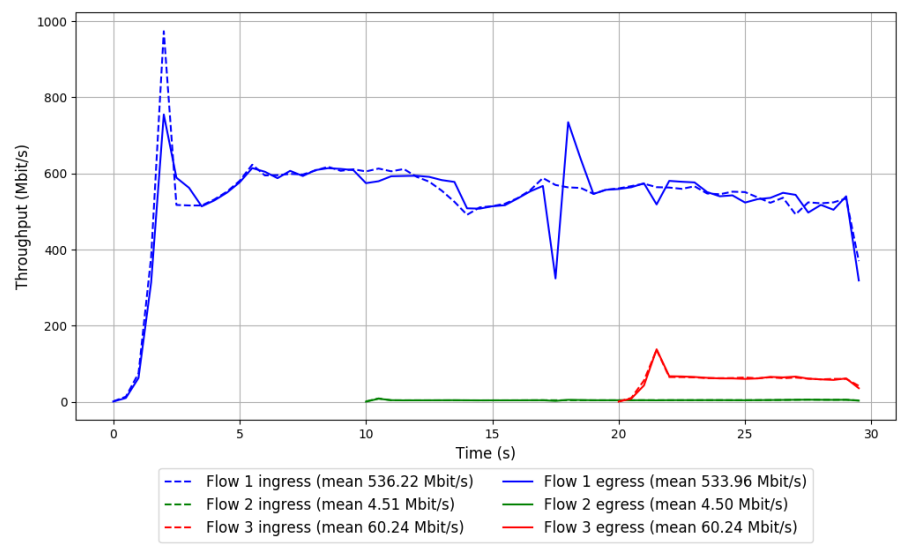
-- Flow 3:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 106.360 ms

Loss rate: 1.31%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-21 06:49:02

End at: 2017-12-21 06:49:32

Below is generated by plot.py at 2017-12-21 10:12:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.33 Mbit/s

95th percentile per-packet one-way delay: 184.396 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 499.46 Mbit/s

95th percentile per-packet one-way delay: 184.345 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 184.324 ms

Loss rate: 1.77%

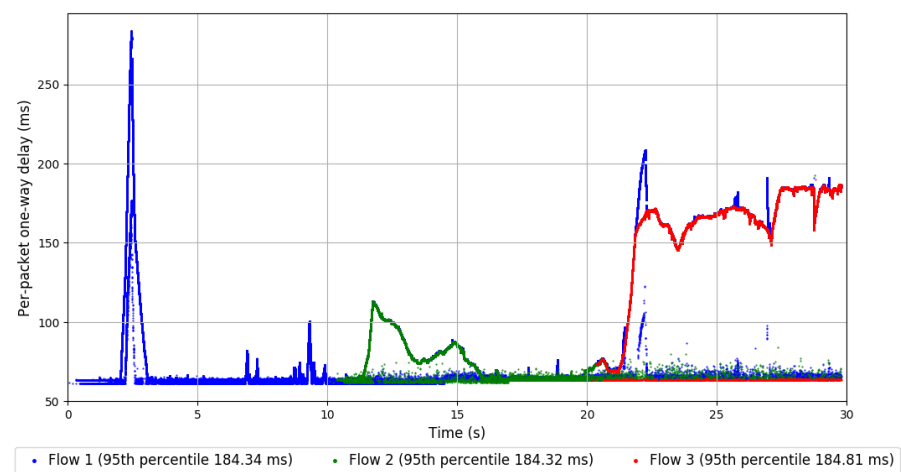
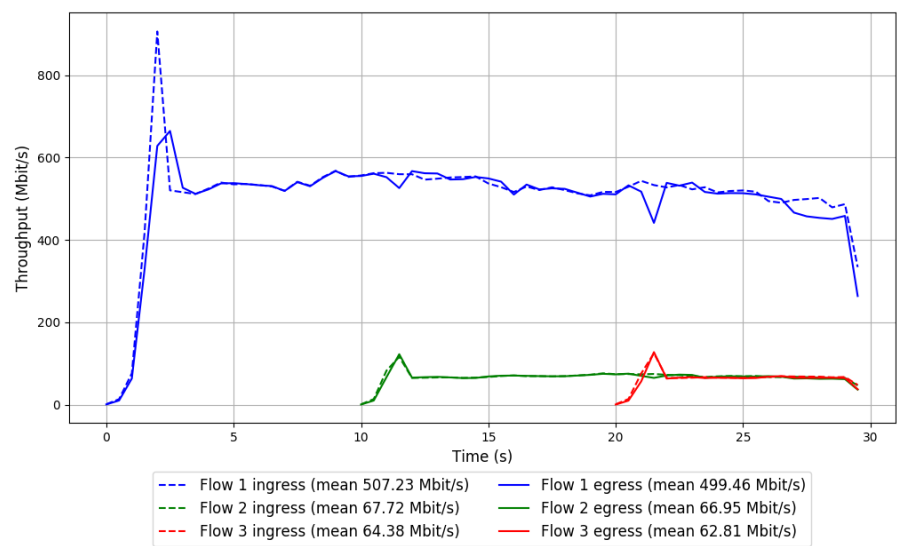
-- Flow 3:

Average throughput: 62.81 Mbit/s

95th percentile per-packet one-way delay: 184.813 ms

Loss rate: 3.71%

Run 9: Report of PCC — Data Link

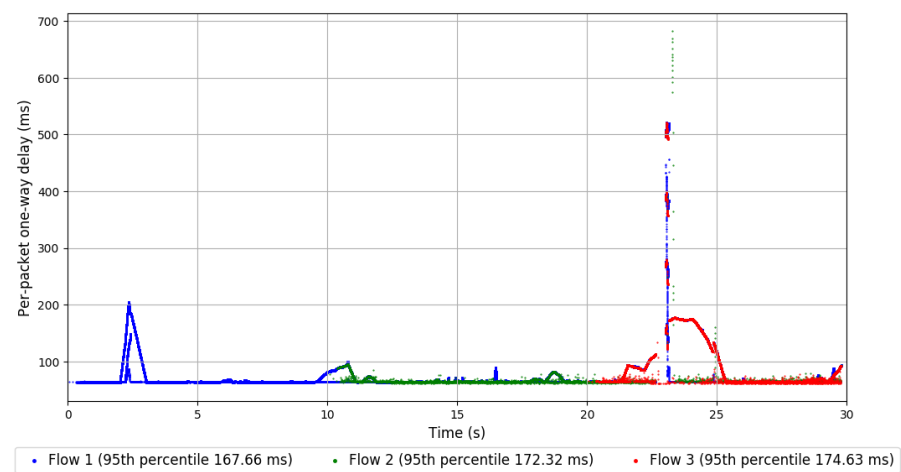
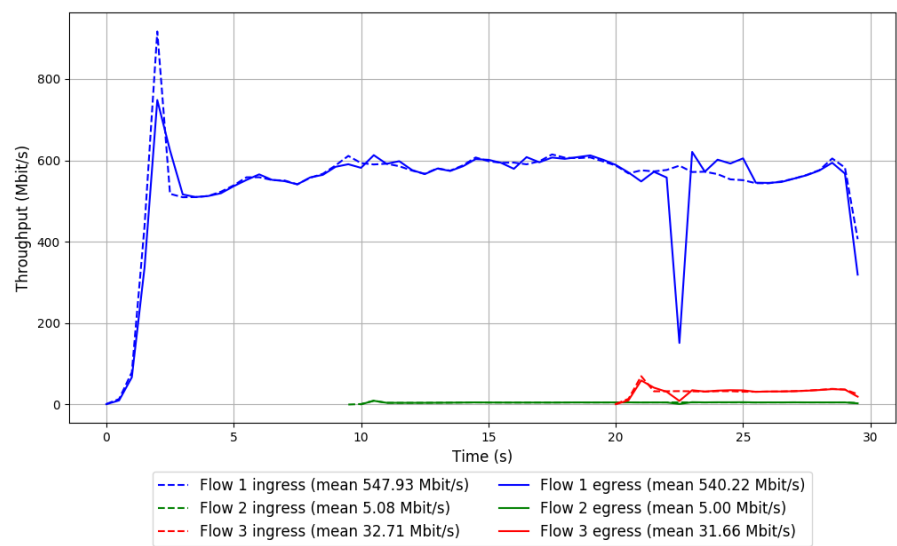


```
Run 10: Statistics of PCC

Start at: 2017-12-21 07:02:47
End at: 2017-12-21 07:03:17

# Below is generated by plot.py at 2017-12-21 10:13:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 553.84 Mbit/s
95th percentile per-packet one-way delay: 169.143 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 540.22 Mbit/s
95th percentile per-packet one-way delay: 167.655 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 172.324 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 174.635 ms
Loss rate: 4.50%
```

Run 10: Report of PCC — Data Link

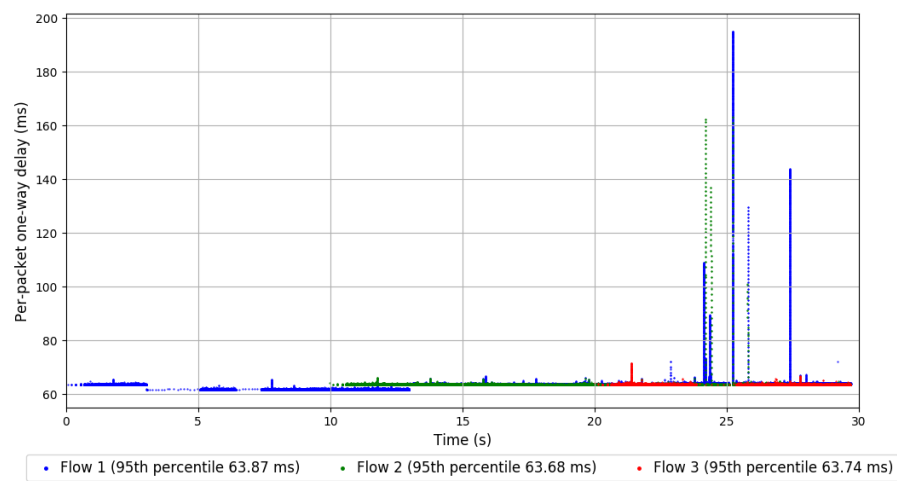
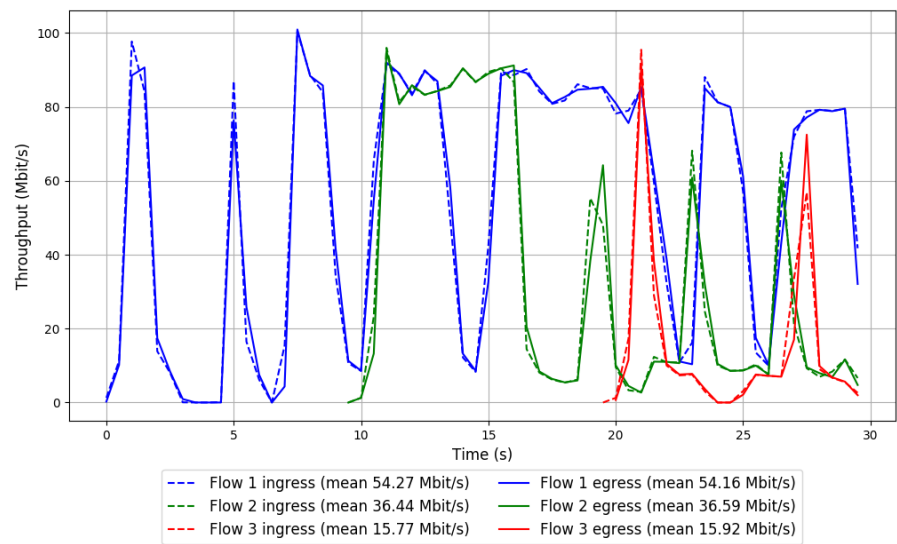


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-21 05:01:43
End at: 2017-12-21 05:02:13

# Below is generated by plot.py at 2017-12-21 10:13:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.73 Mbit/s
95th percentile per-packet one-way delay: 63.816 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 63.676 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 0.41%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-21 05:15:58

End at: 2017-12-21 05:16:28

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.50 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 68.66 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 58.92 Mbit/s

95th percentile per-packet one-way delay: 63.440 ms

Loss rate: 0.66%

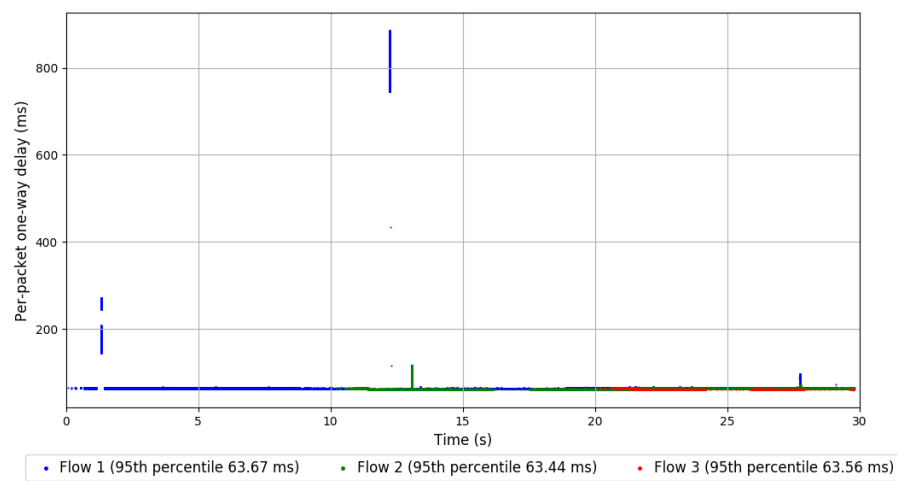
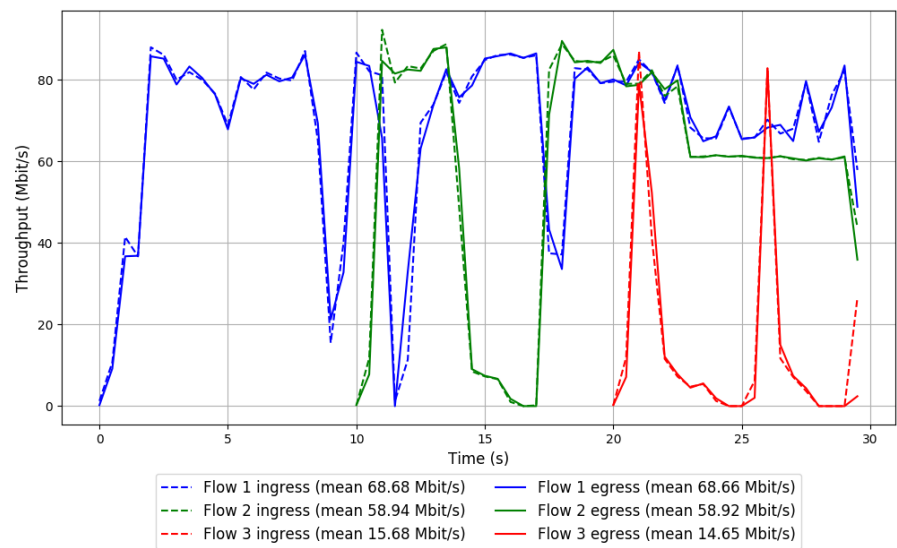
-- Flow 3:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 7.81%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-21 05:30:08

End at: 2017-12-21 05:30:38

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.43 Mbit/s

95th percentile per-packet one-way delay: 63.522 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 58.60 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 64.05 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.74%

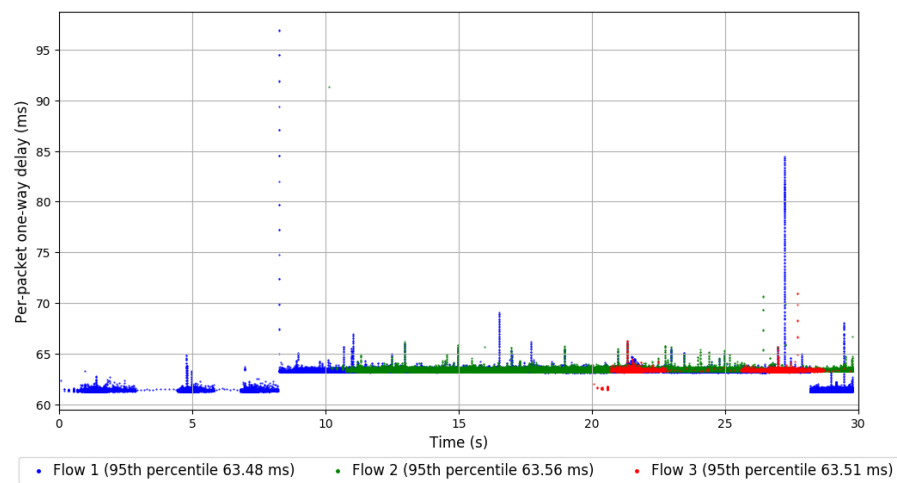
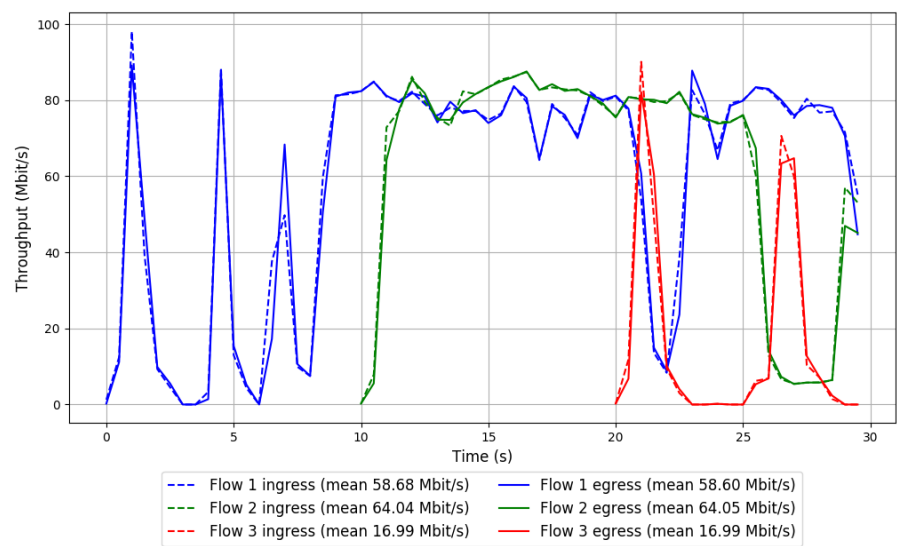
-- Flow 3:

Average throughput: 16.99 Mbit/s

95th percentile per-packet one-way delay: 63.513 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-21 05:44:22

End at: 2017-12-21 05:44:52

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 63.387 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 63.397 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 64.09 Mbit/s

95th percentile per-packet one-way delay: 63.189 ms

Loss rate: 0.10%

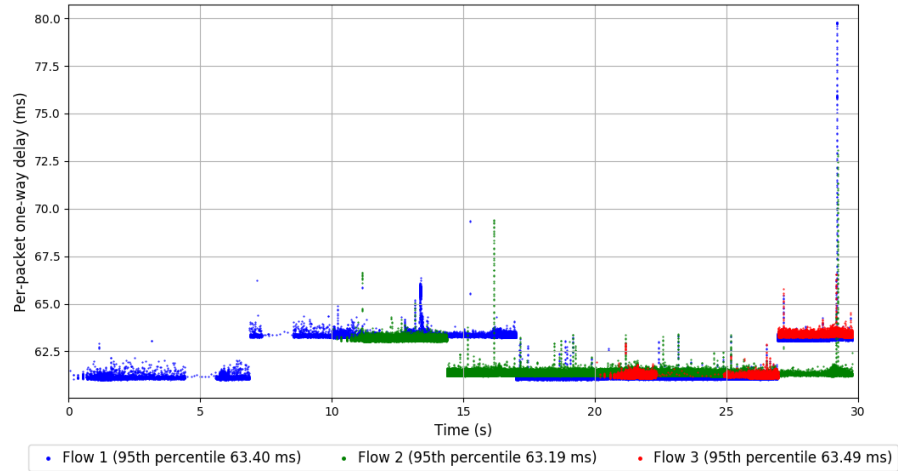
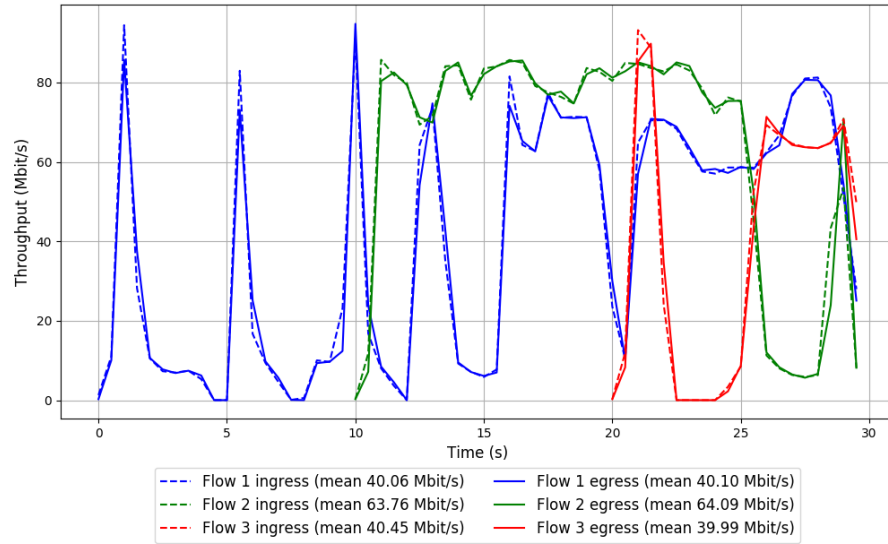
-- Flow 3:

Average throughput: 39.99 Mbit/s

95th percentile per-packet one-way delay: 63.495 ms

Loss rate: 2.39%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-21 05:58:38

End at: 2017-12-21 05:59:08

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.68 Mbit/s

95th percentile per-packet one-way delay: 63.823 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 63.553 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 63.925 ms

Loss rate: 1.43%

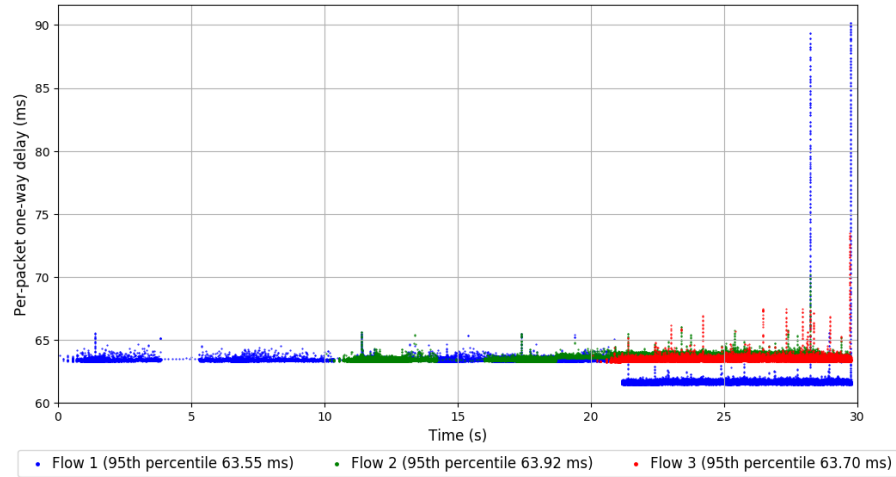
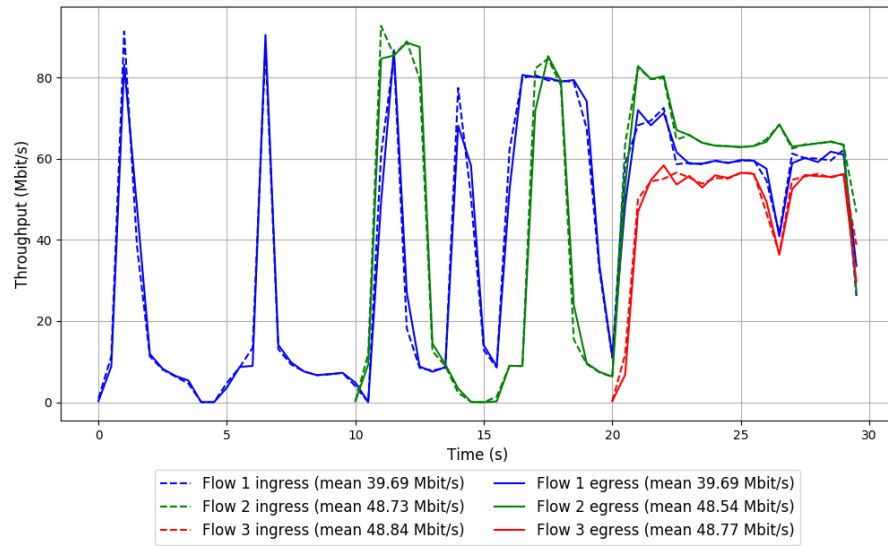
-- Flow 3:

Average throughput: 48.77 Mbit/s

95th percentile per-packet one-way delay: 63.697 ms

Loss rate: 1.71%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-21 06:12:47

End at: 2017-12-21 06:13:17

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.16 Mbit/s

95th percentile per-packet one-way delay: 63.743 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 74.86 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 55.80 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 0.75%

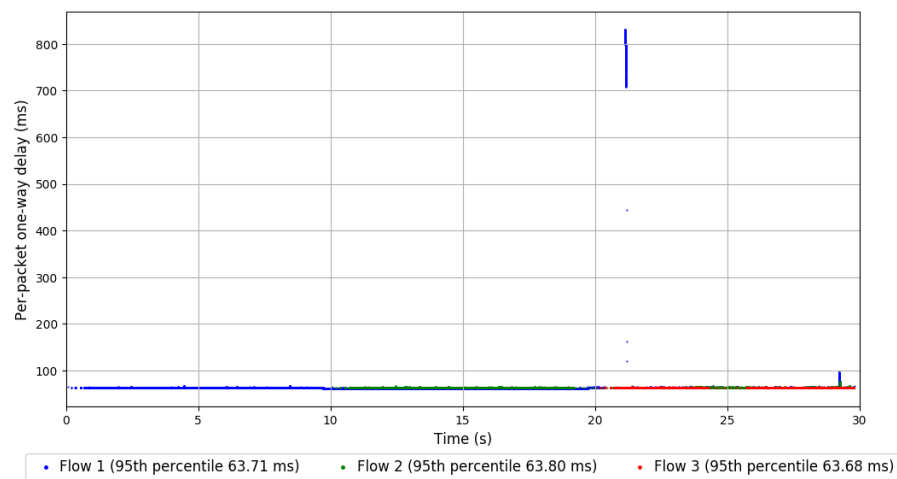
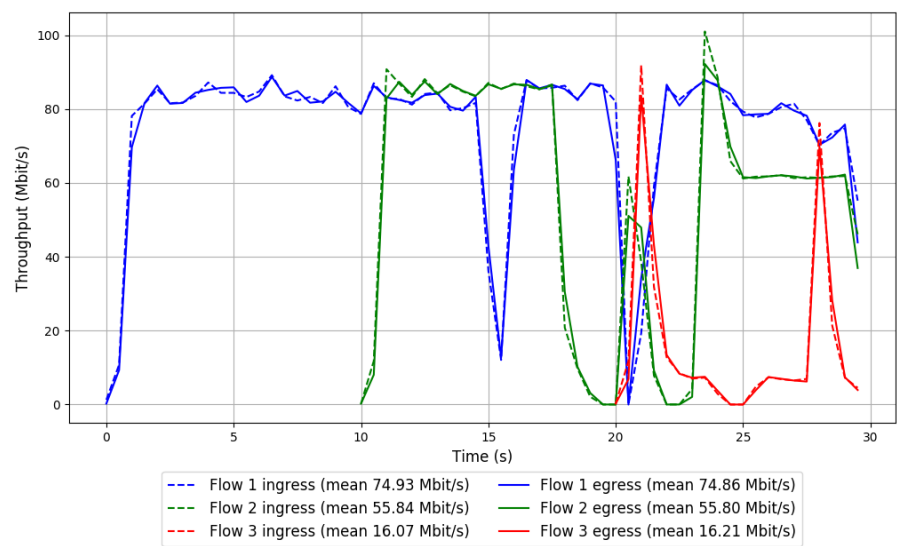
-- Flow 3:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.46%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-21 06:26:58

End at: 2017-12-21 06:27:28

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.48 Mbit/s

95th percentile per-packet one-way delay: 63.551 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 63.598 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 61.776 ms

Loss rate: 0.85%

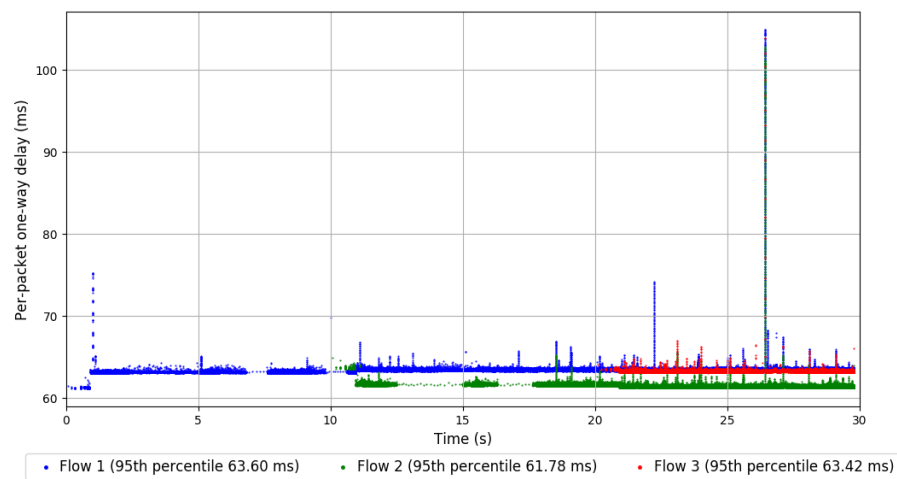
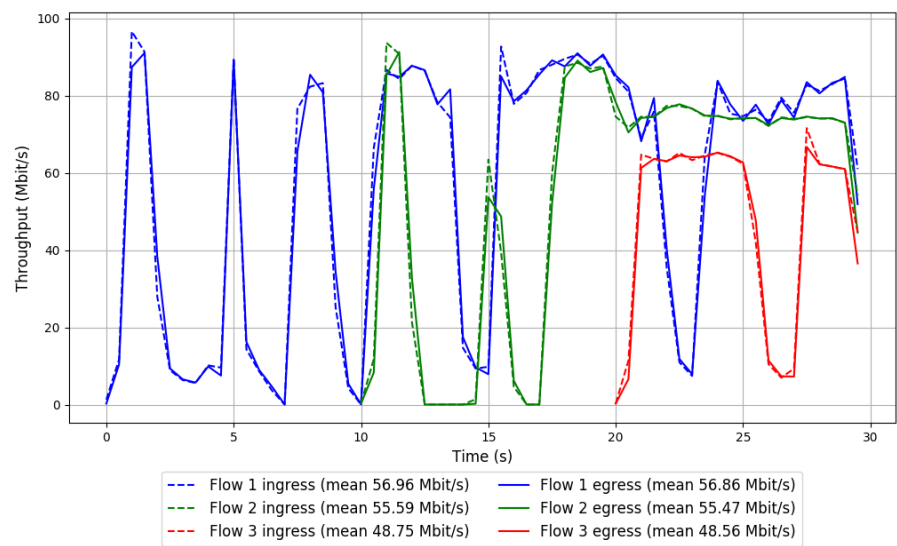
-- Flow 3:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 63.422 ms

Loss rate: 1.66%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-21 06:41:12

End at: 2017-12-21 06:41:42

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 49.38 Mbit/s

95th percentile per-packet one-way delay: 63.667 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 64.55 Mbit/s

95th percentile per-packet one-way delay: 63.460 ms

Loss rate: 0.07%

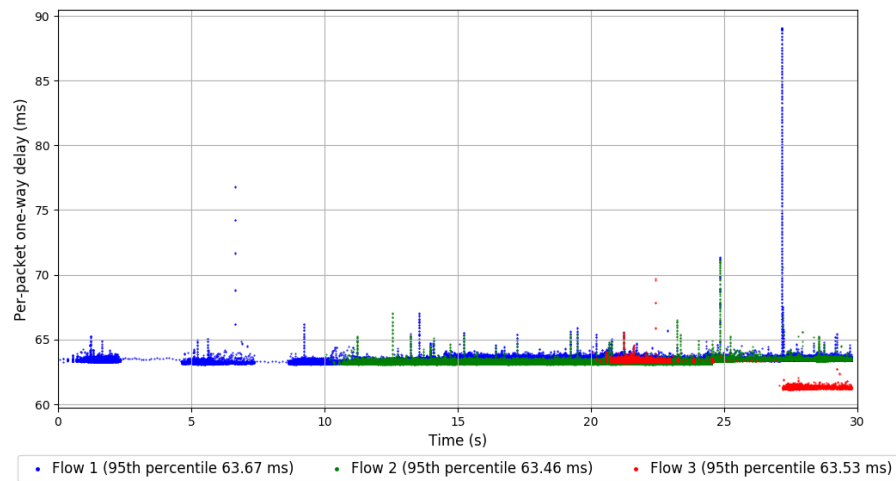
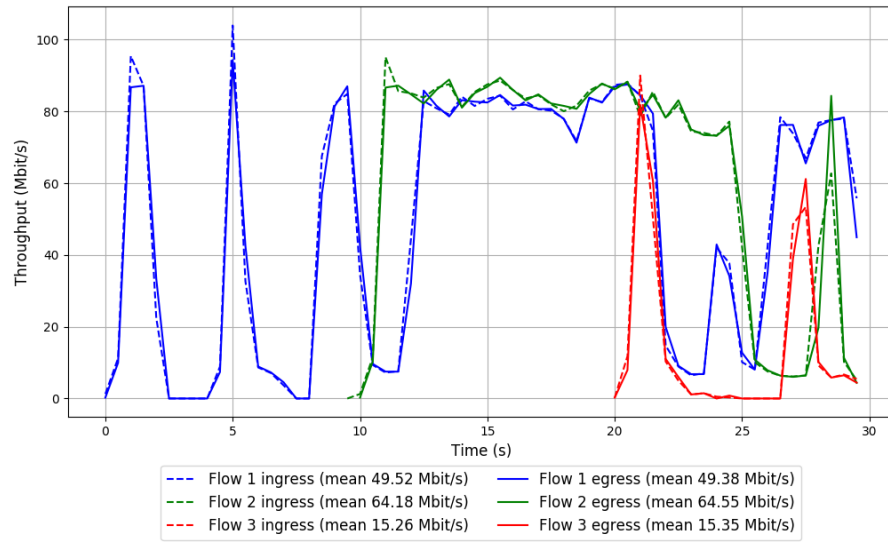
-- Flow 3:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 63.526 ms

Loss rate: 0.67%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-21 06:55:10

End at: 2017-12-21 06:55:40

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.07 Mbit/s

95th percentile per-packet one-way delay: 63.763 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 44.95 Mbit/s

95th percentile per-packet one-way delay: 63.639 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 63.813 ms

Loss rate: 1.02%

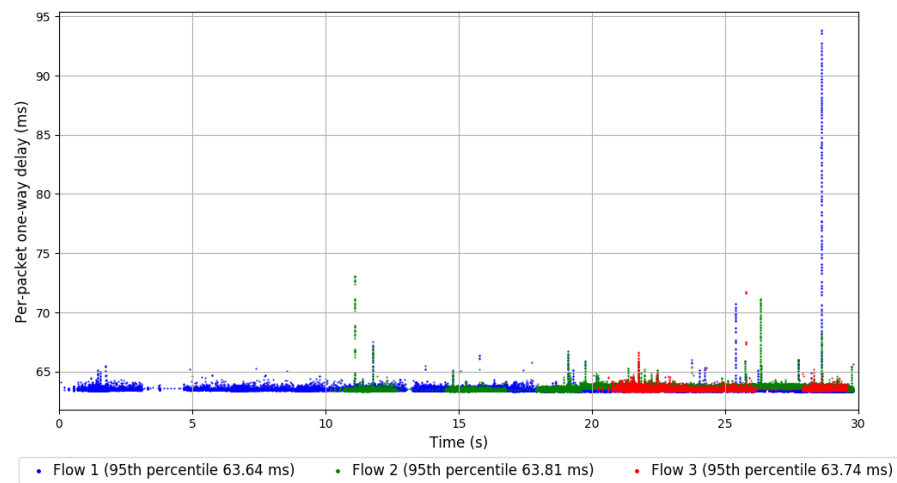
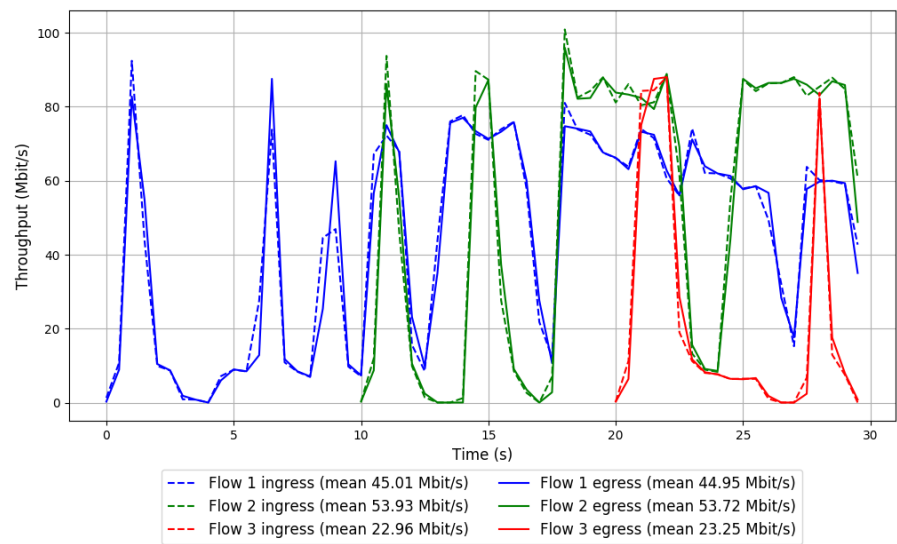
-- Flow 3:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 63.744 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

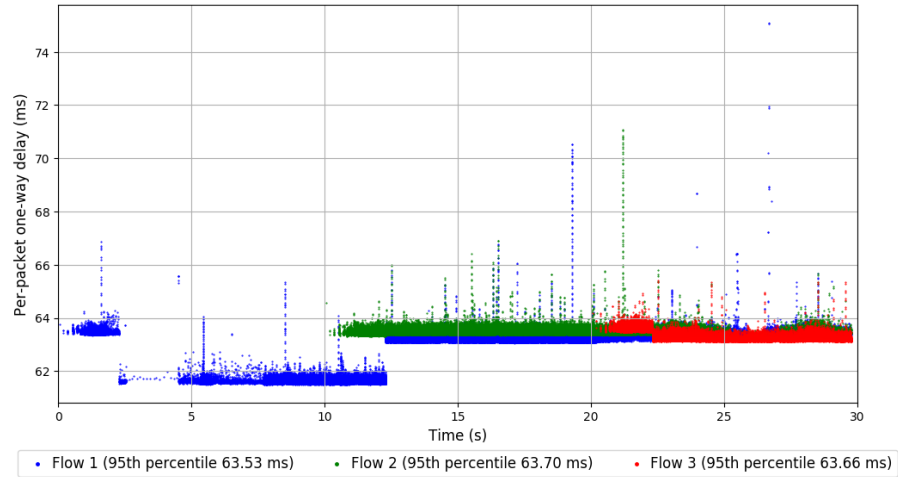
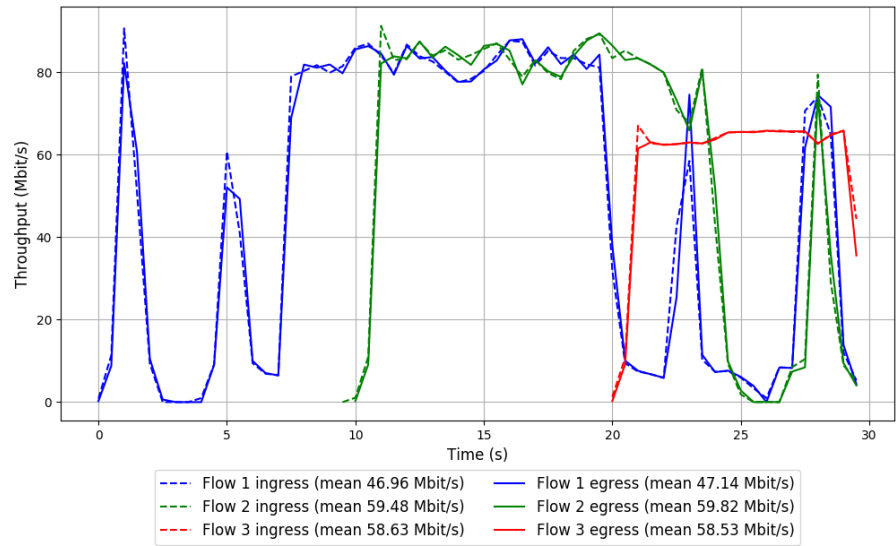


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-21 07:09:17
End at: 2017-12-21 07:09:47

# Below is generated by plot.py at 2017-12-21 10:13:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.93 Mbit/s
95th percentile per-packet one-way delay: 63.654 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 47.14 Mbit/s
95th percentile per-packet one-way delay: 63.532 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 59.82 Mbit/s
95th percentile per-packet one-way delay: 63.700 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 58.53 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 1.48%
```

Run 10: Report of QUIC Cubic — Data Link

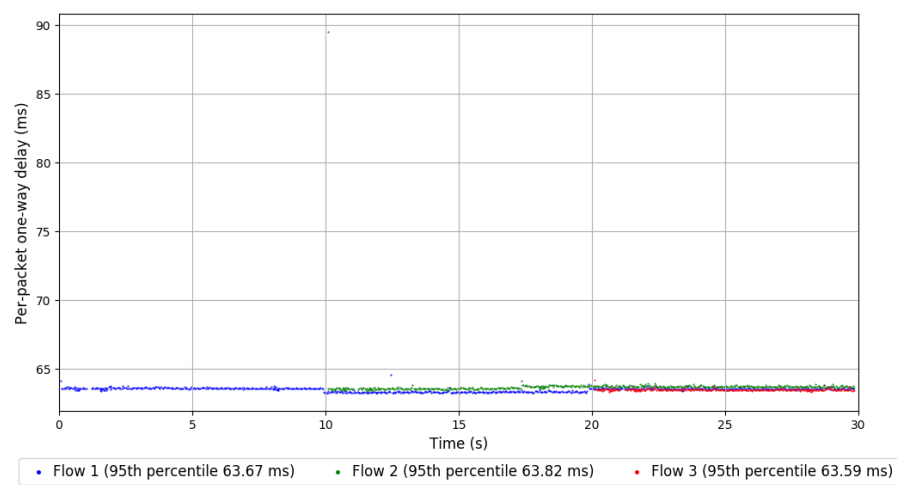
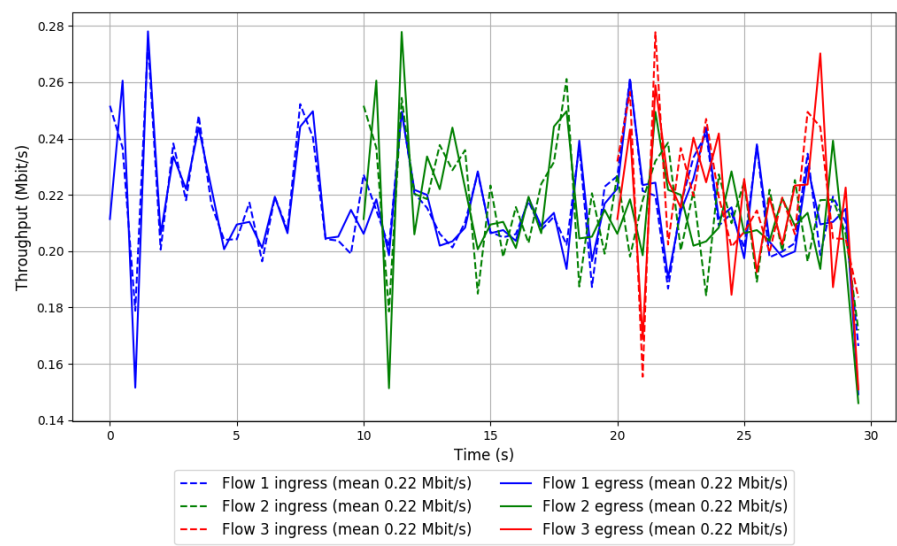


```
Run 1: Statistics of SCReAM

Start at: 2017-12-21 05:02:29
End at: 2017-12-21 05:02:59

# Below is generated by plot.py at 2017-12-21 10:13:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.777 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.670 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.821 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.591 ms
Loss rate: 1.10%
```

Run 1: Report of SReAM — Data Link

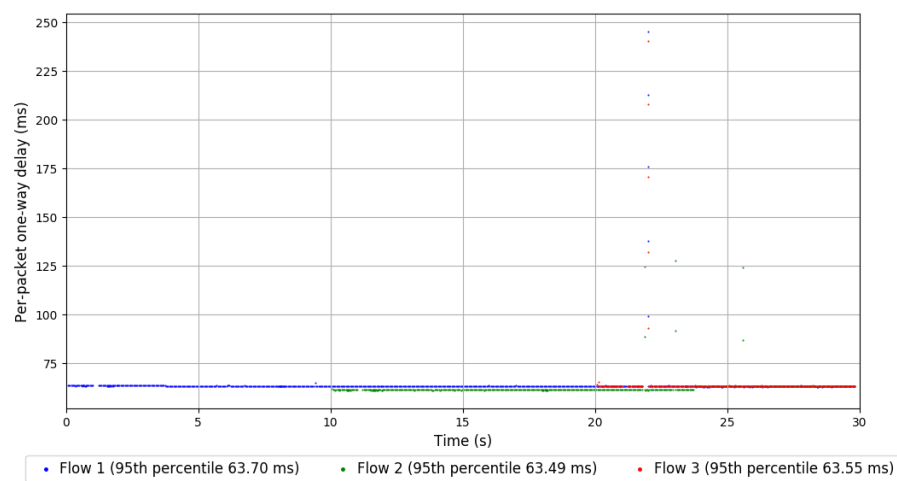
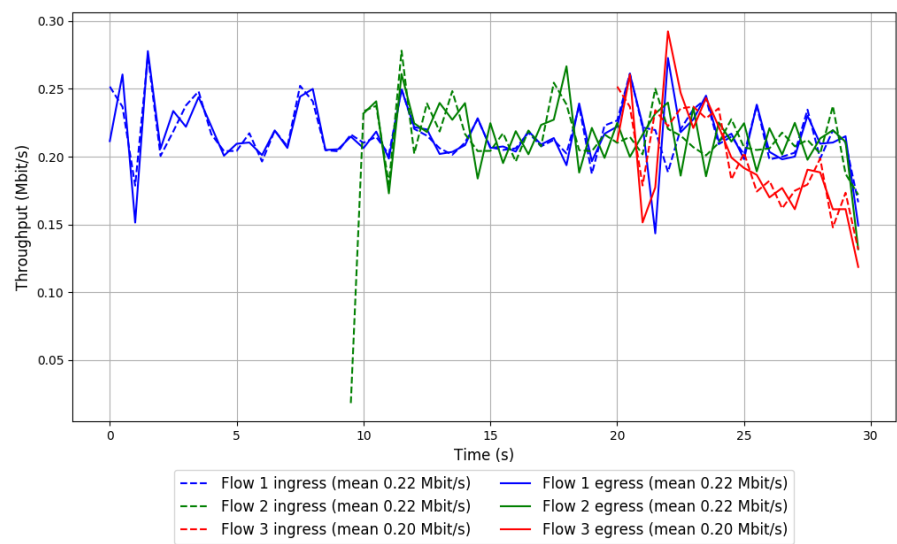


```
Run 2: Statistics of SReAM

Start at: 2017-12-21 05:16:45
End at: 2017-12-21 05:17:15

# Below is generated by plot.py at 2017-12-21 10:13:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.678 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.699 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.486 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 63.549 ms
Loss rate: 0.96%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-21 05:30:56

End at: 2017-12-21 05:31:26

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 63.488 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.517 ms

Loss rate: 0.63%

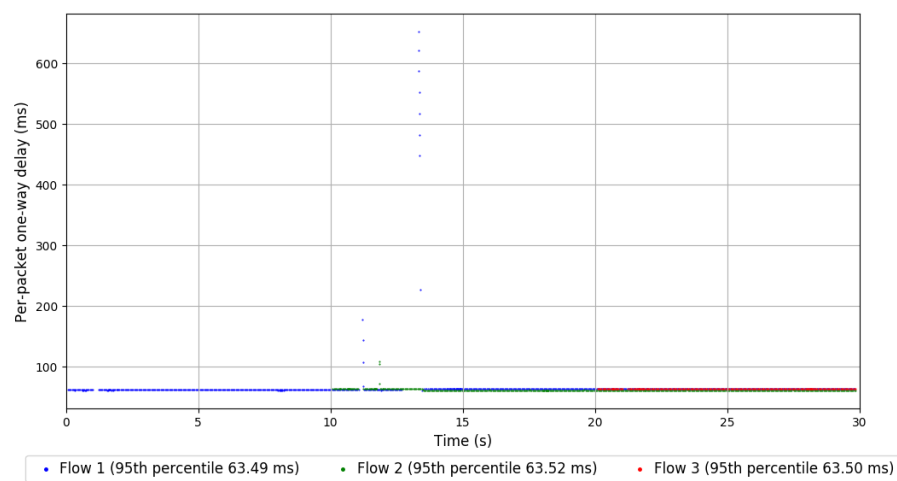
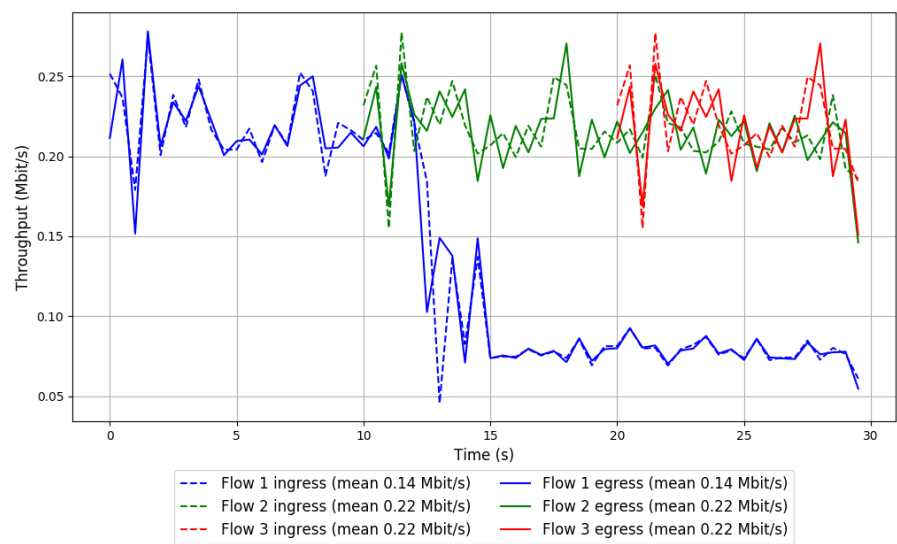
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 1.10%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-21 05:45:09

End at: 2017-12-21 05:45:39

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.580 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.598 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.63%

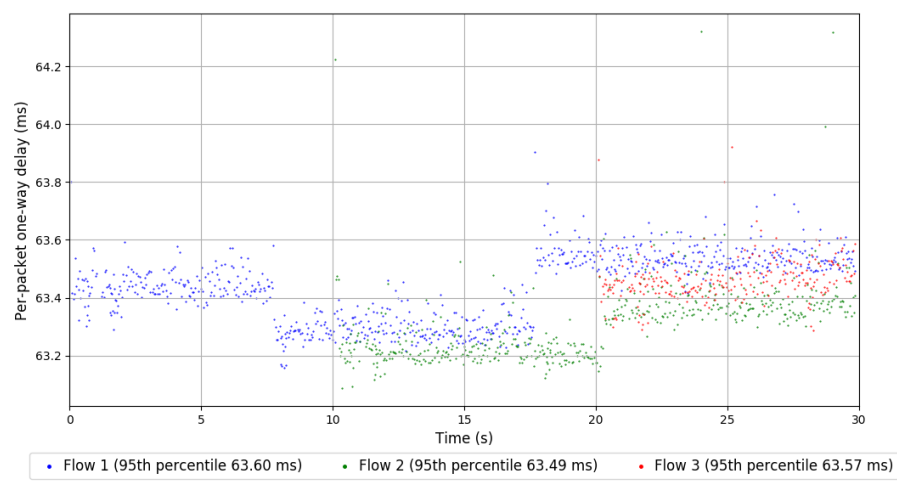
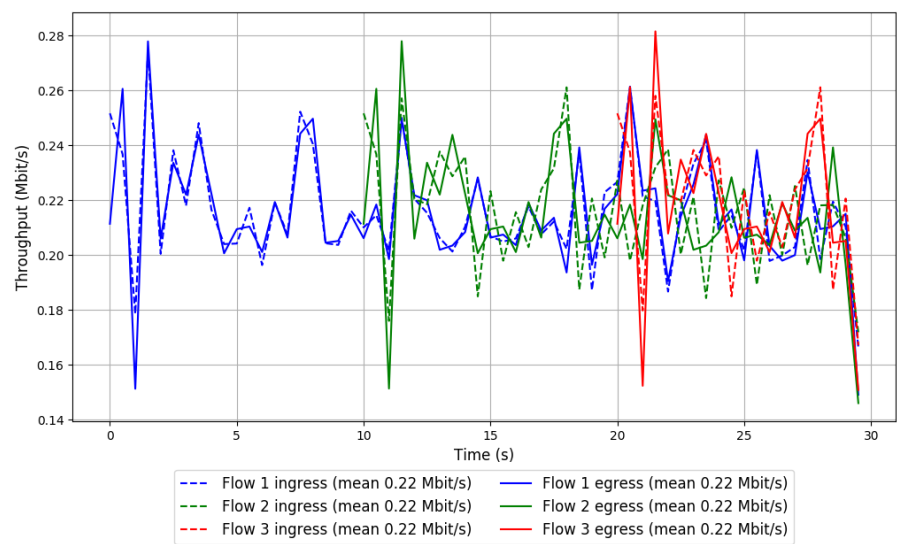
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.572 ms

Loss rate: 1.10%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-21 05:59:24

End at: 2017-12-21 05:59:54

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.807 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.832 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.82%

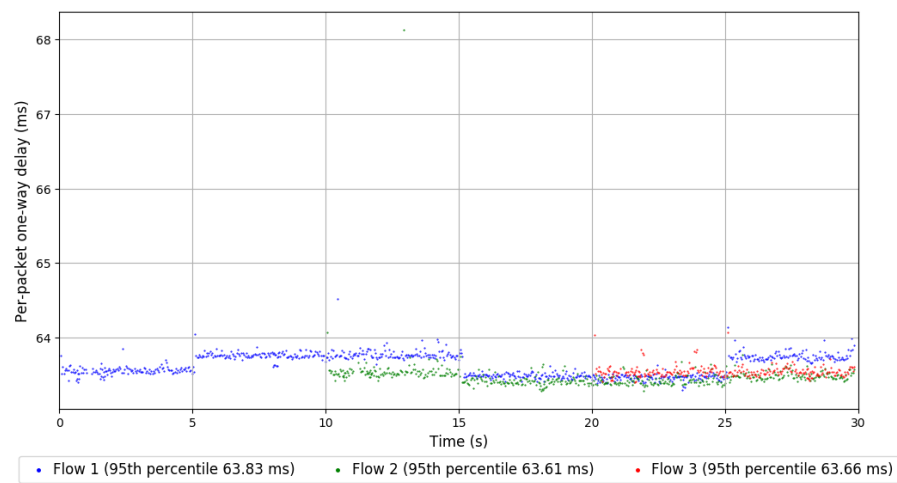
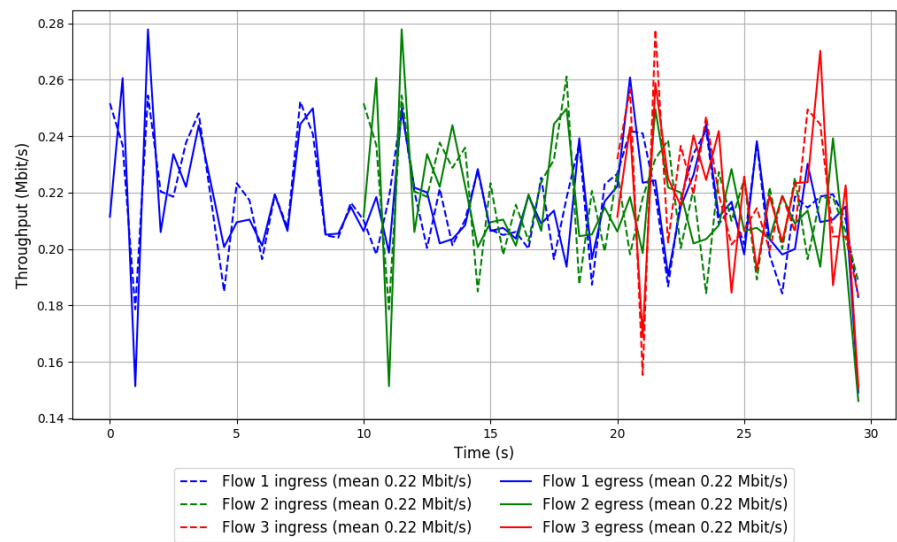
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 1.10%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-21 06:13:35

End at: 2017-12-21 06:14:05

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.624 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.641 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.555 ms

Loss rate: 0.63%

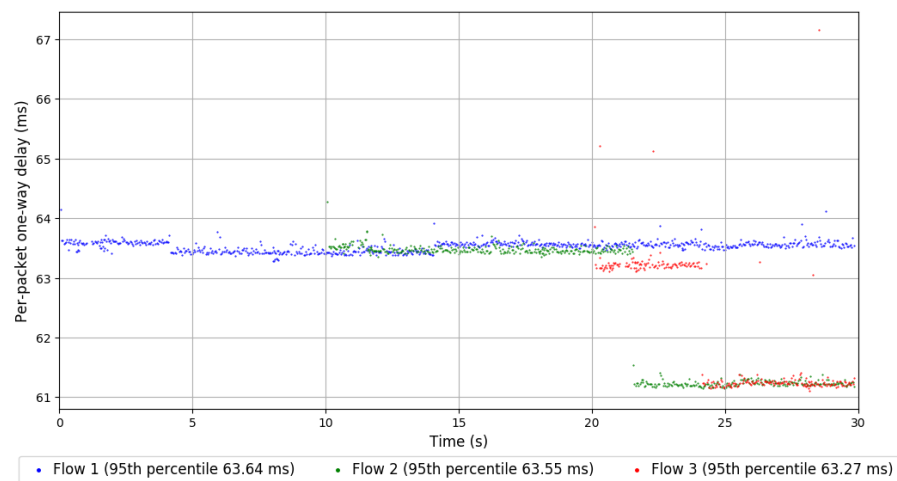
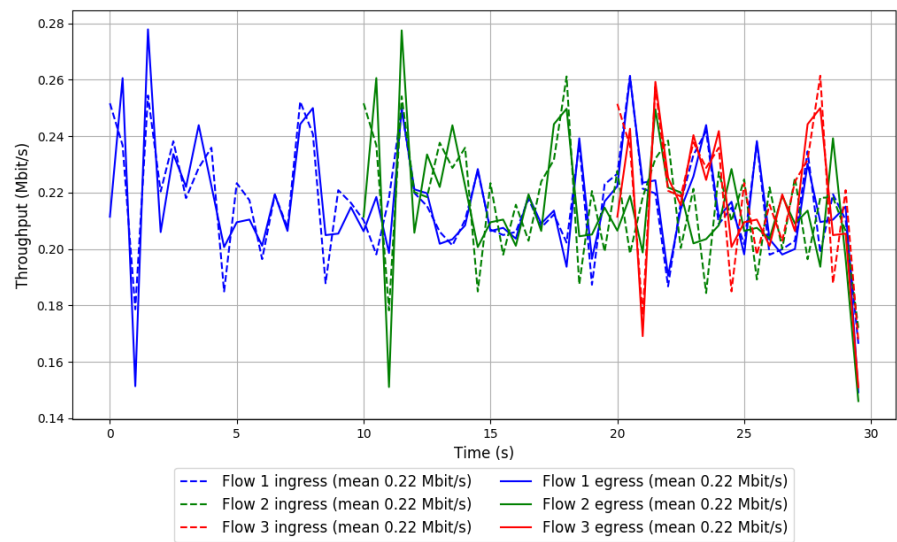
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.271 ms

Loss rate: 1.10%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-12-21 06:27:46

End at: 2017-12-21 06:28:16

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.831 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.621 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 0.63%

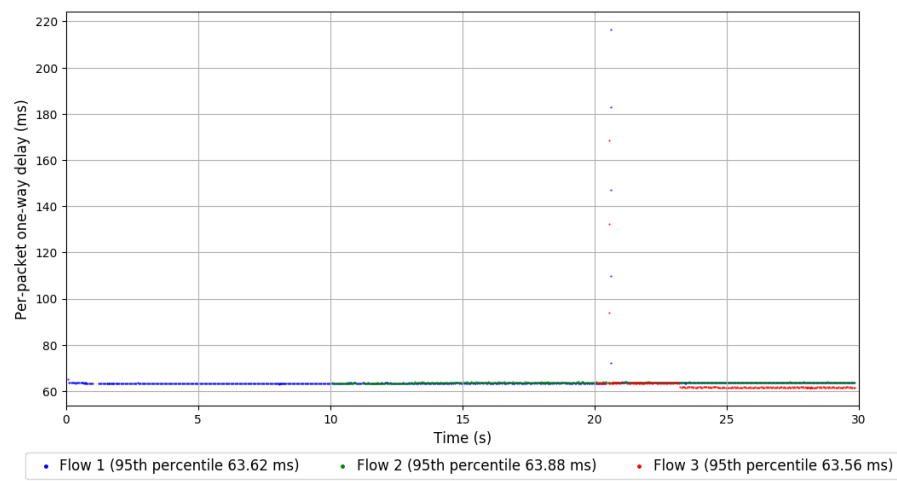
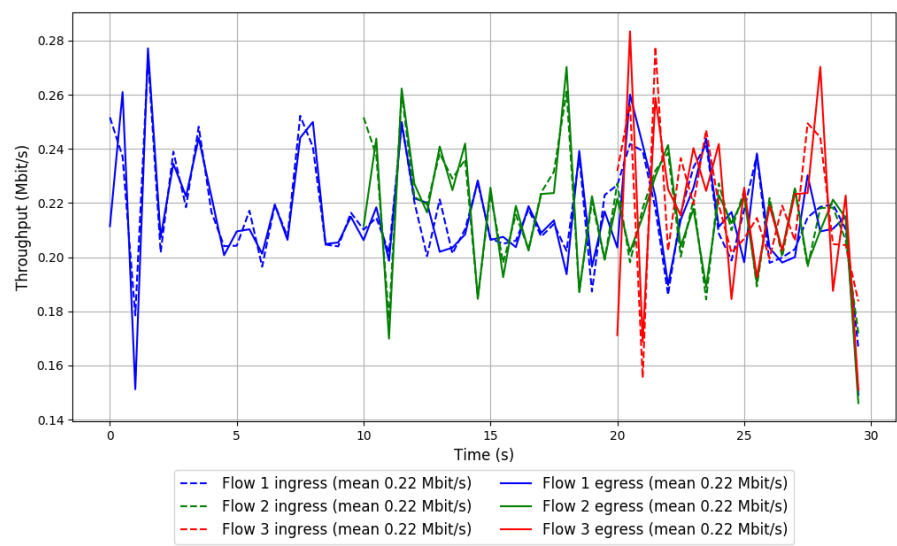
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 1.10%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-21 06:41:59

End at: 2017-12-21 06:42:29

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.821 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.883 ms

Loss rate: 0.63%

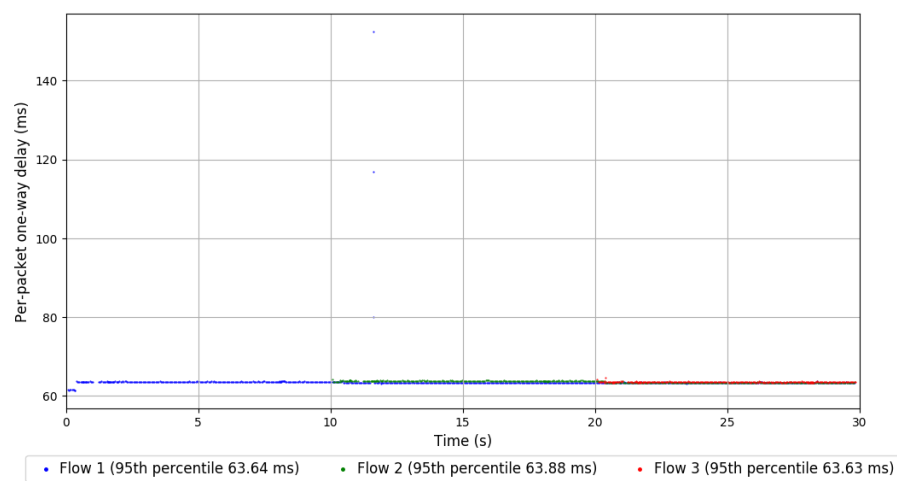
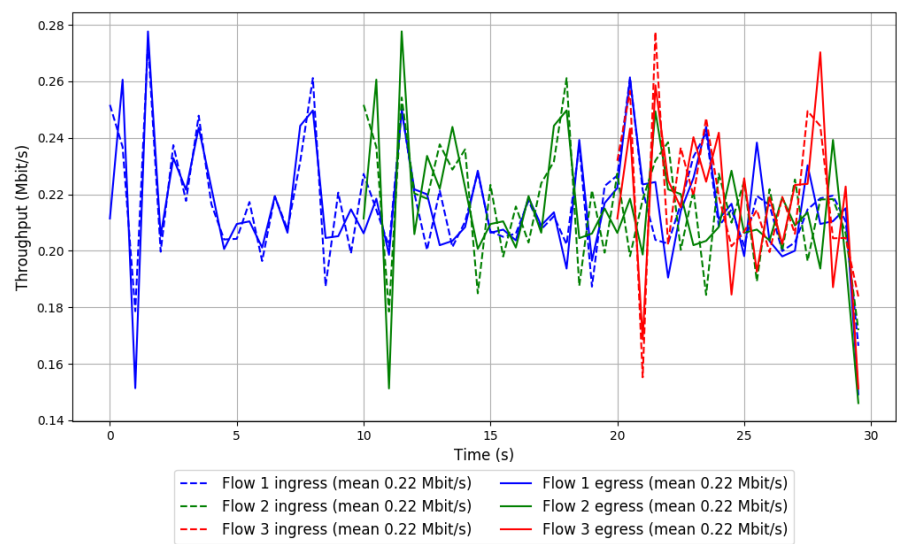
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.627 ms

Loss rate: 1.10%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-21 06:55:56

End at: 2017-12-21 06:56:26

Below is generated by plot.py at 2017-12-21 10:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.760 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.795 ms

Loss rate: 0.63%

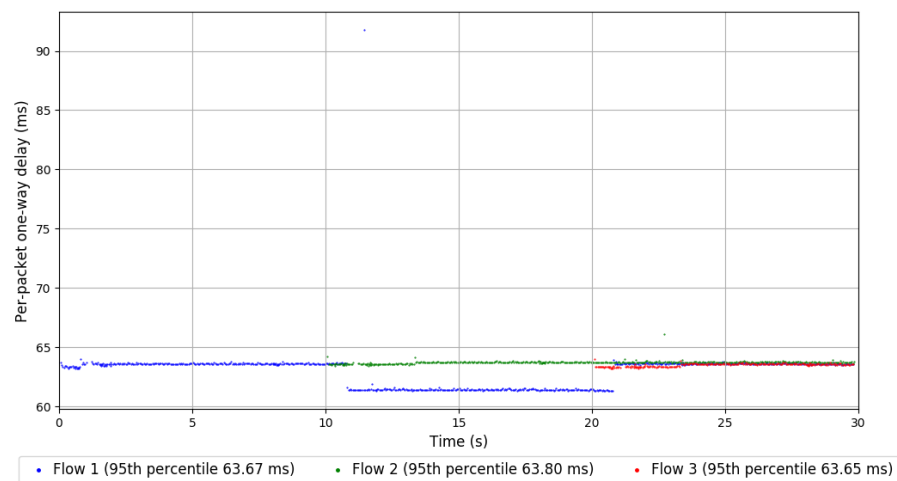
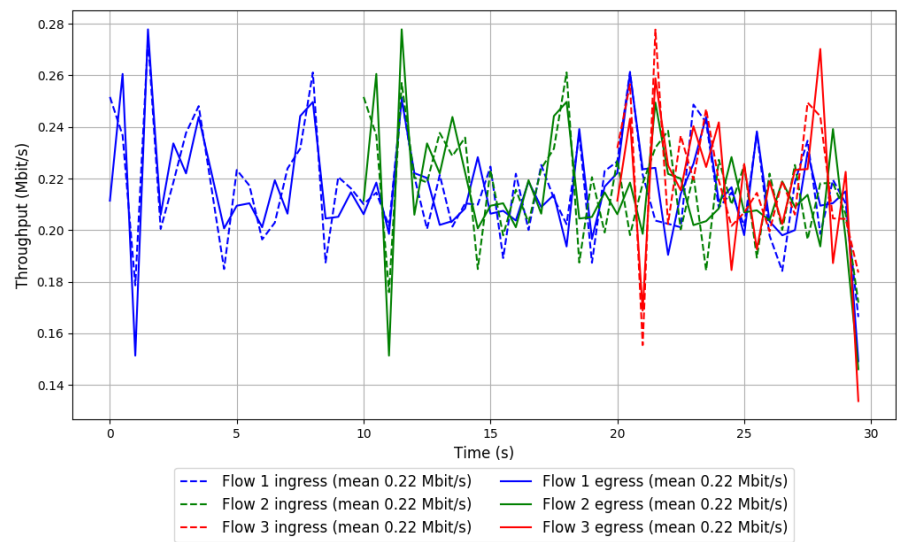
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 1.50%

Run 9: Report of SReAM — Data Link

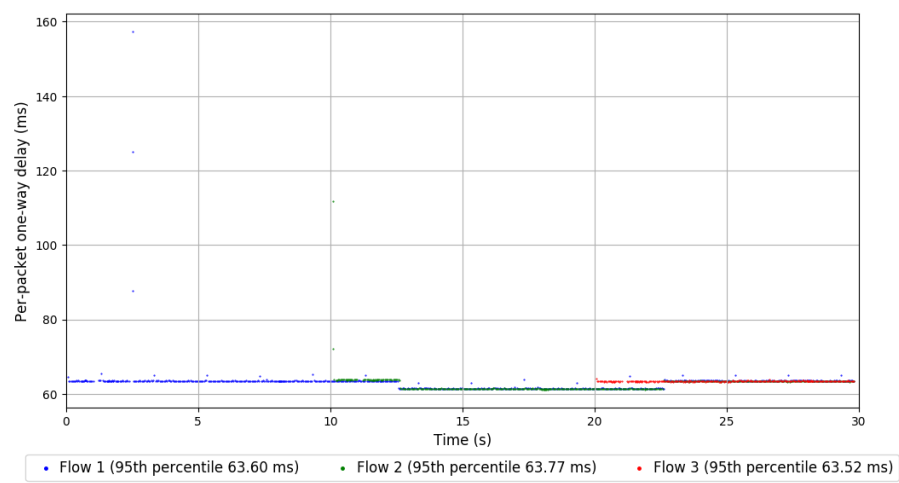
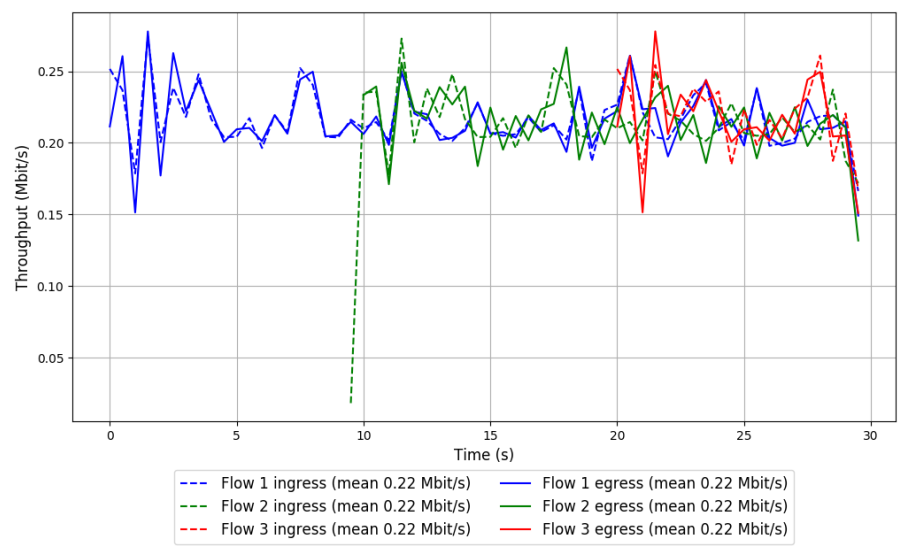


```
Run 10: Statistics of SReAM

Start at: 2017-12-21 07:10:04
End at: 2017-12-21 07:10:34

# Below is generated by plot.py at 2017-12-21 10:13:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.730 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.601 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.775 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.524 ms
Loss rate: 1.10%
```

Run 10: Report of SCReAM — Data Link

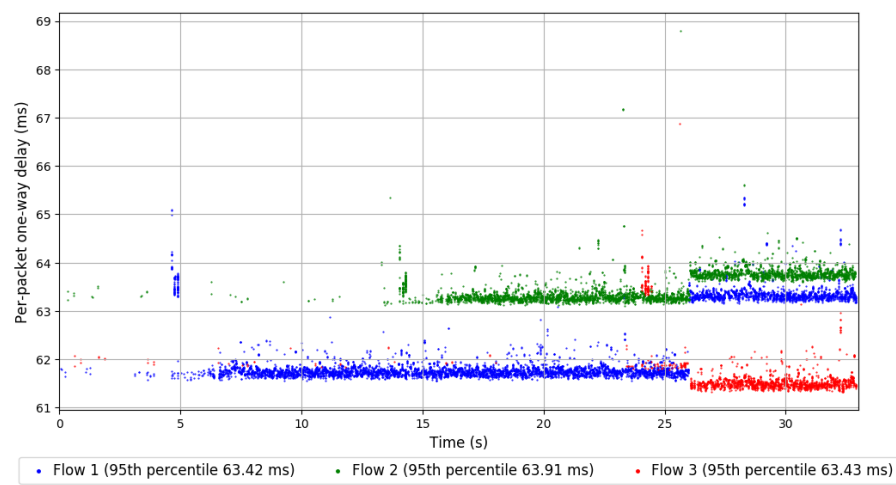
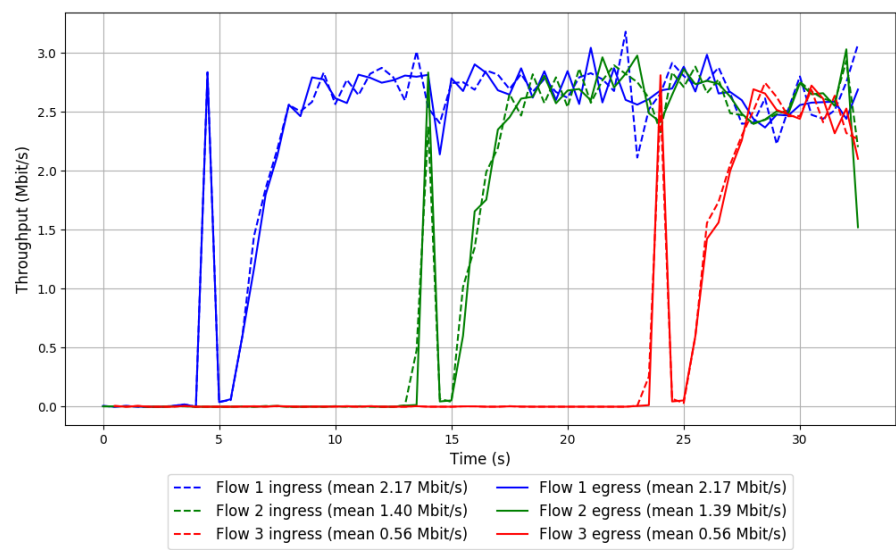


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-21 04:52:26
End at: 2017-12-21 04:52:56

# Below is generated by plot.py at 2017-12-21 10:13:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 63.804 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 63.420 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 63.915 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 63.429 ms
Loss rate: 1.30%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-21 05:07:00

End at: 2017-12-21 05:07:30

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 63.902 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 63.881 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.941 ms

Loss rate: 0.43%

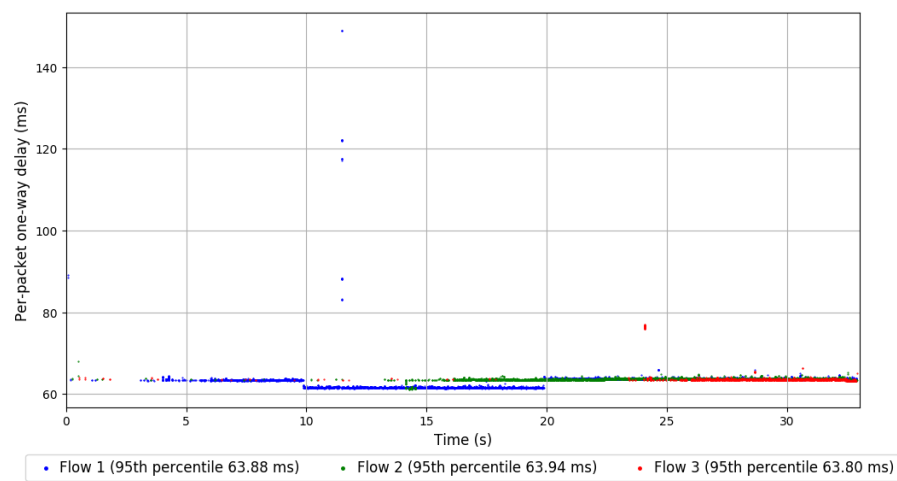
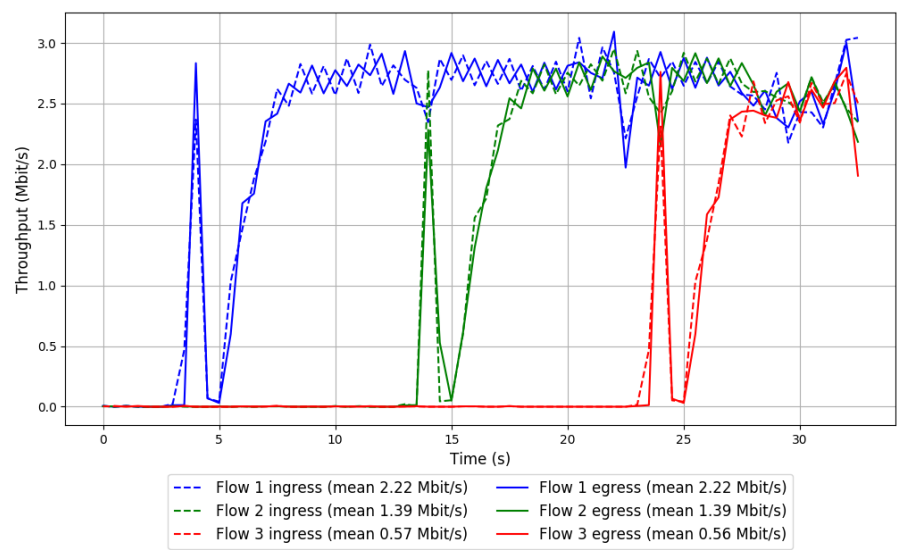
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.805 ms

Loss rate: 2.21%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-21 05:21:07

End at: 2017-12-21 05:21:37

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.589 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.505 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.616 ms

Loss rate: 0.67%

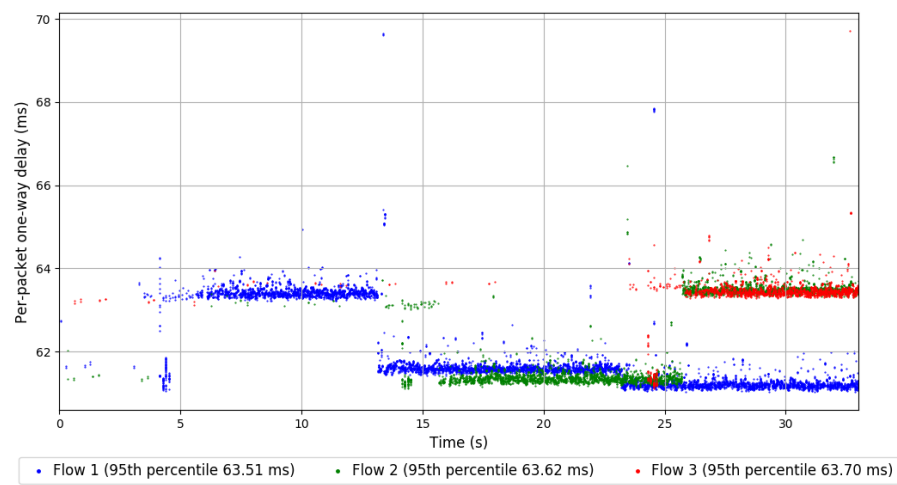
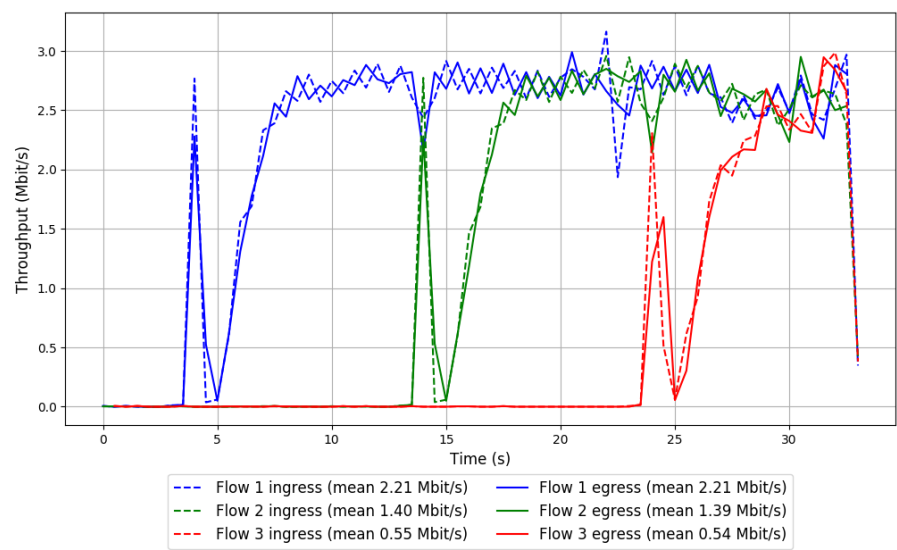
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 2.22%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-21 05:35:29

End at: 2017-12-21 05:35:59

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.644 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.75%

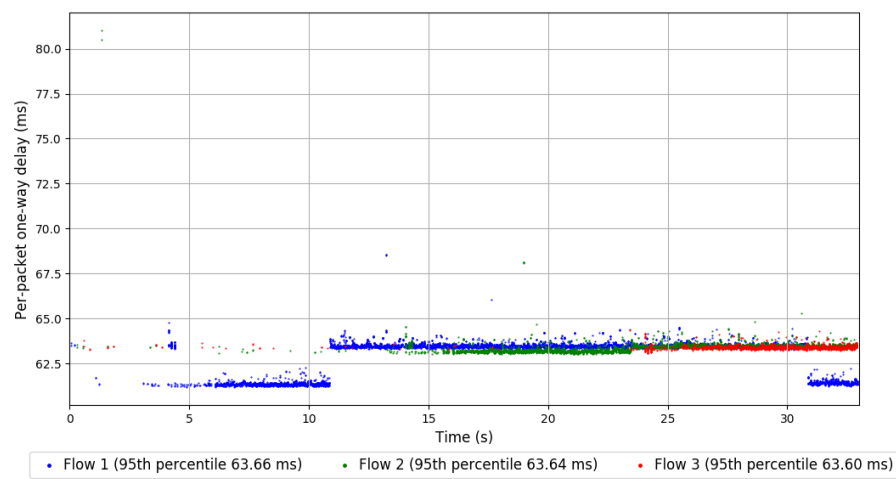
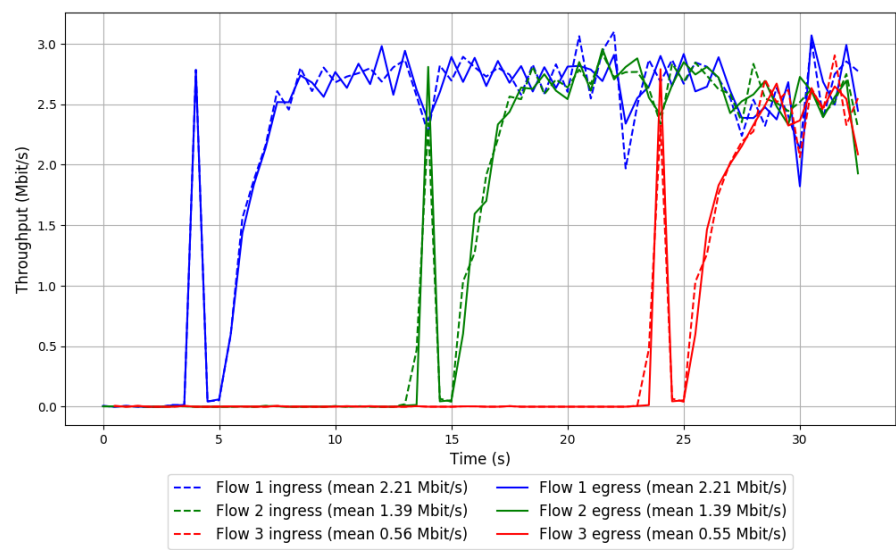
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.596 ms

Loss rate: 1.97%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-21 05:49:37

End at: 2017-12-21 05:50:07

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 63.696 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.713 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 62.221 ms

Loss rate: 0.91%

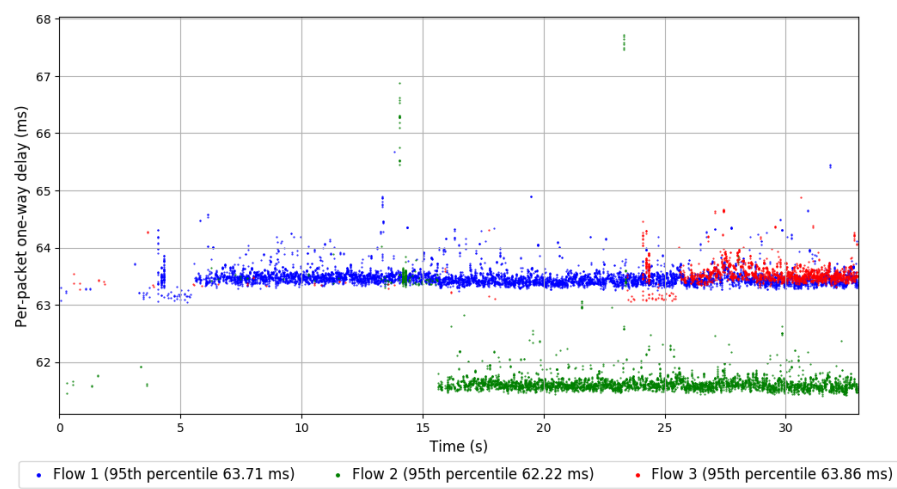
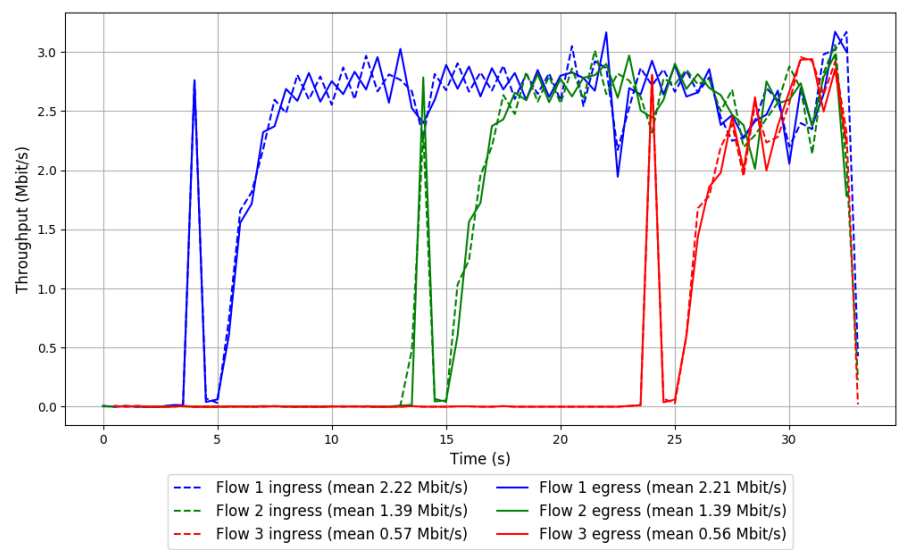
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.862 ms

Loss rate: 1.57%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-21 06:04:00

End at: 2017-12-21 06:04:30

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.722 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.722 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 63.722 ms

Loss rate: 1.00%

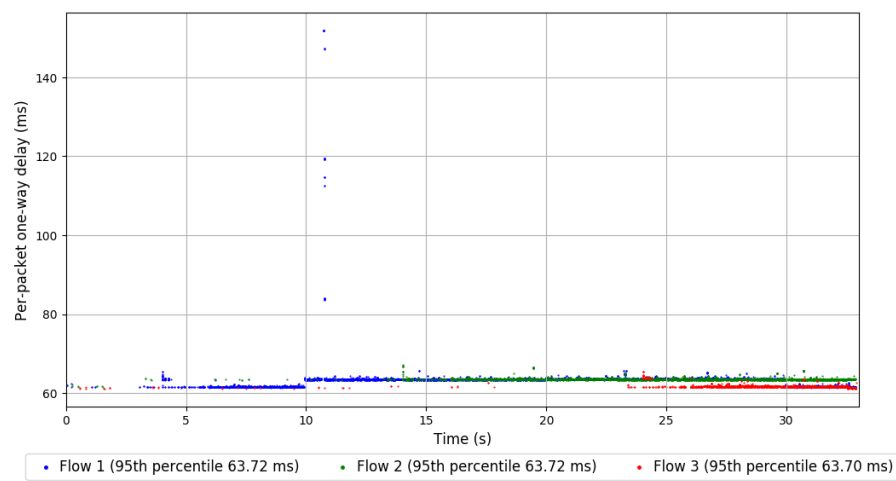
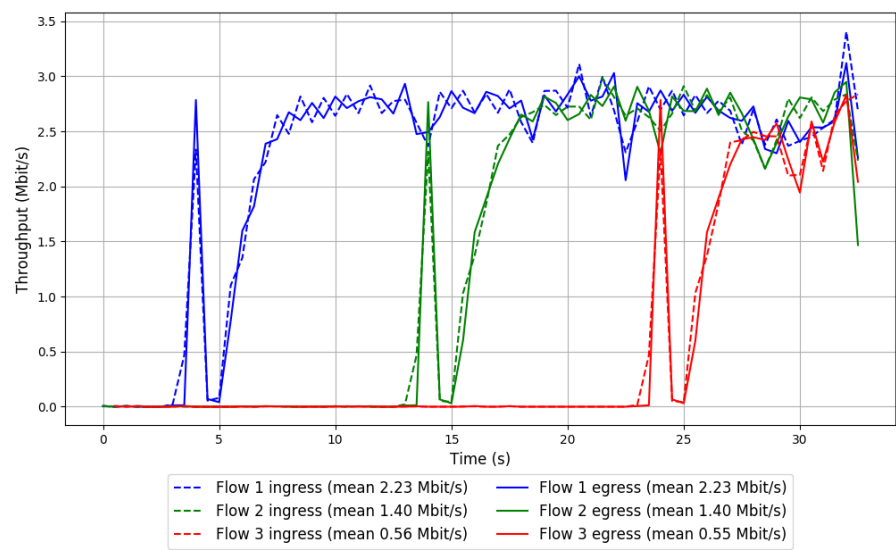
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.702 ms

Loss rate: 2.85%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-21 06:18:06

End at: 2017-12-21 06:18:36

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.655 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.74%

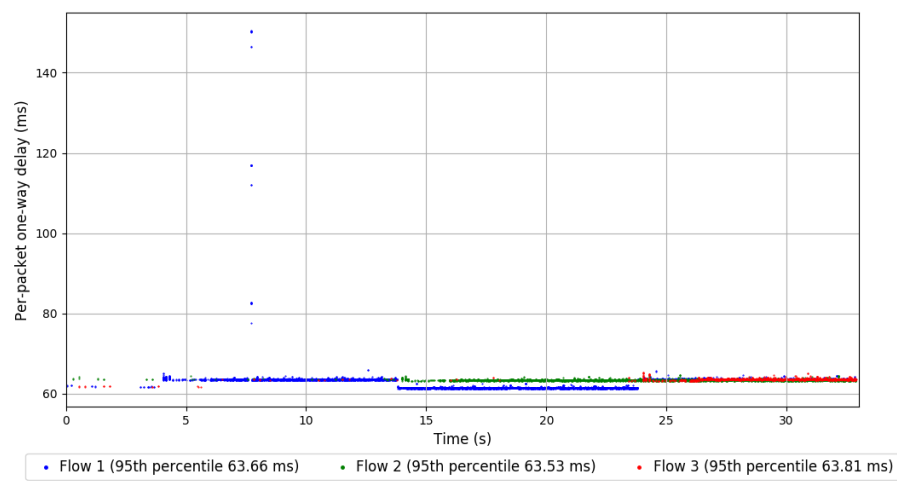
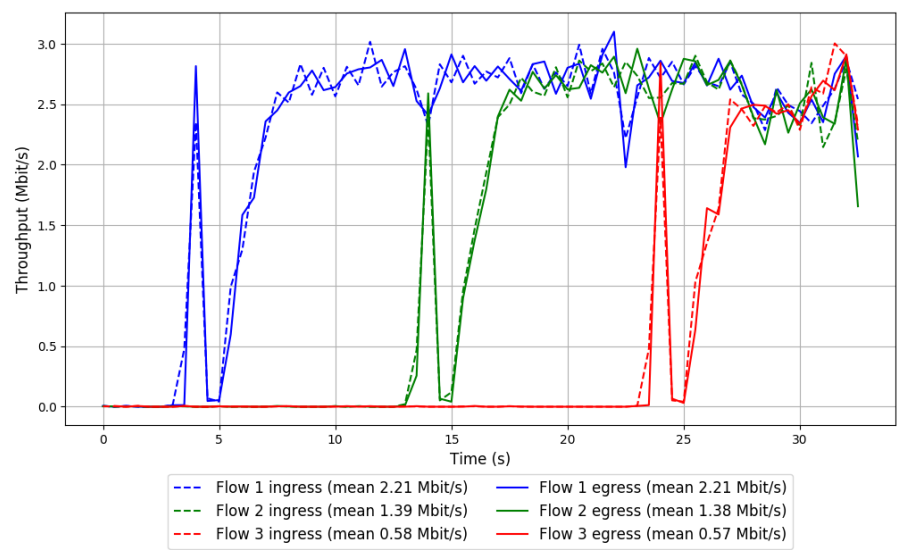
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 63.815 ms

Loss rate: 1.61%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-21 06:32:19

End at: 2017-12-21 06:32:49

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 63.584 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 61.795 ms

Loss rate: 0.77%

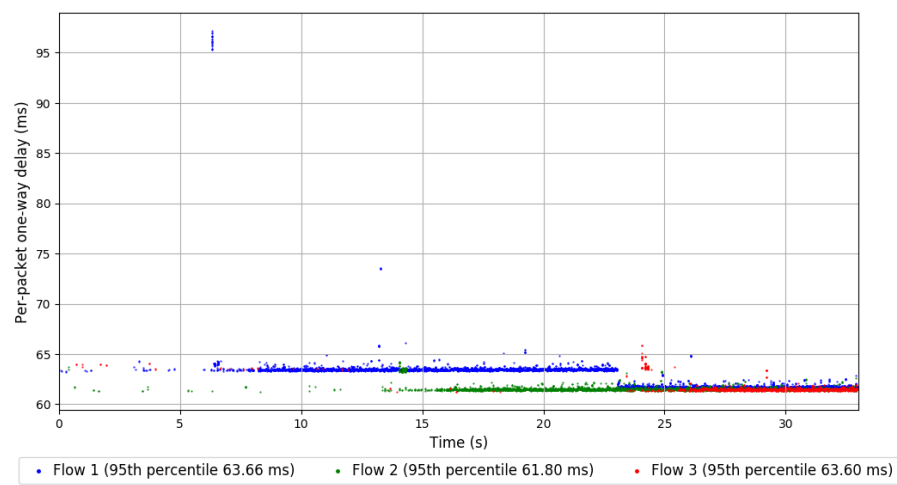
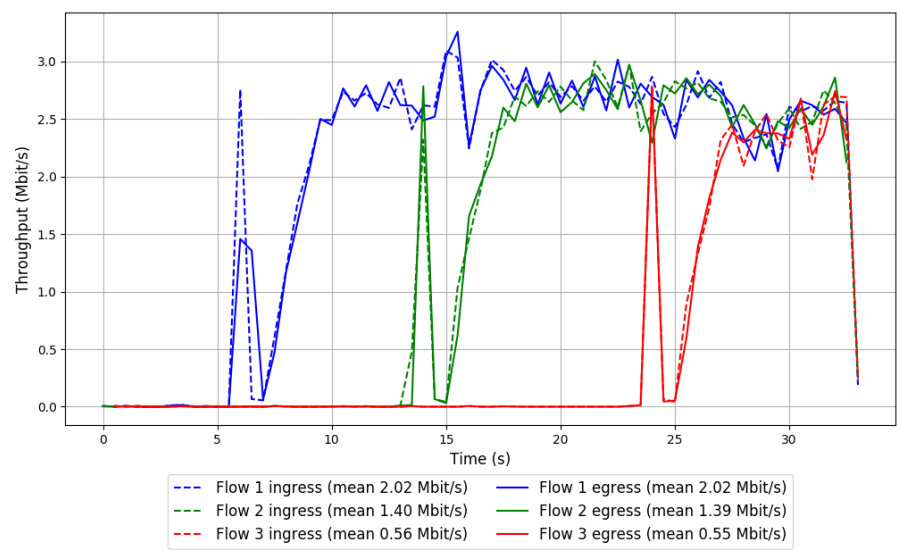
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.603 ms

Loss rate: 2.35%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-21 06:46:28

End at: 2017-12-21 06:46:58

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.946 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 0.53%

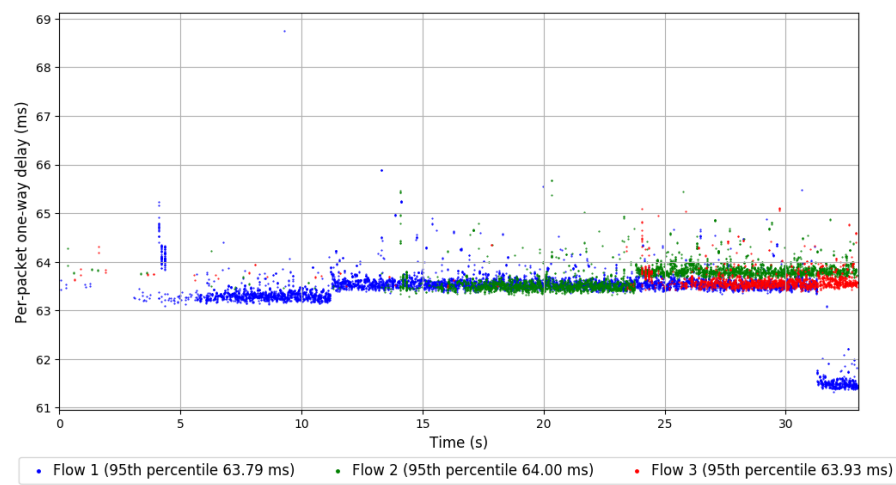
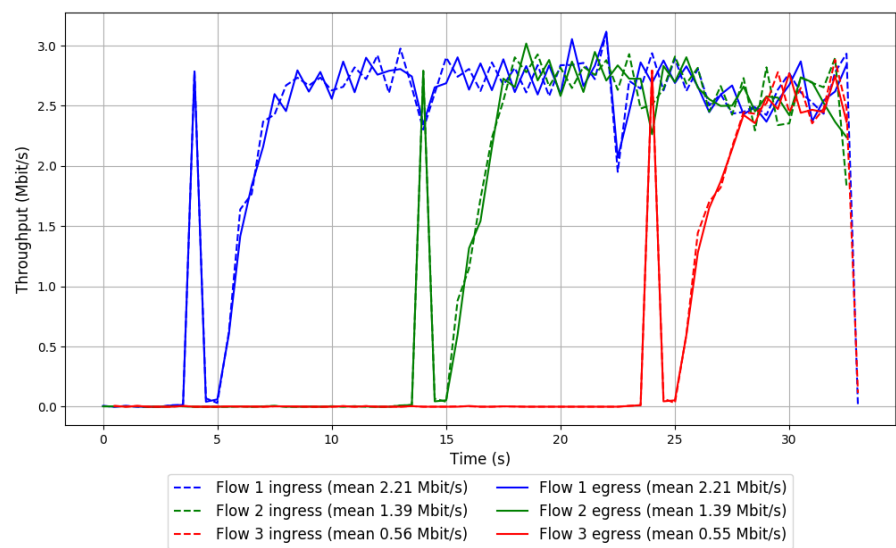
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.927 ms

Loss rate: 1.95%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-21 07:00:17

End at: 2017-12-21 07:00:47

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.824 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 0.74%

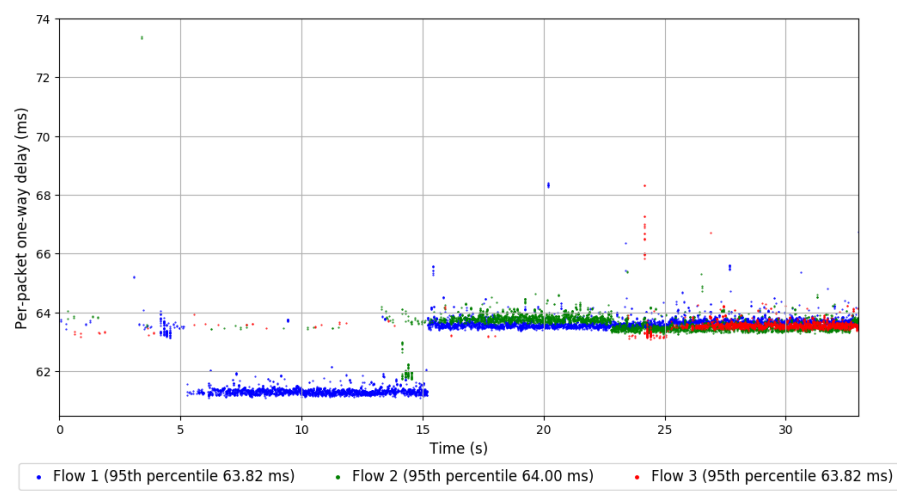
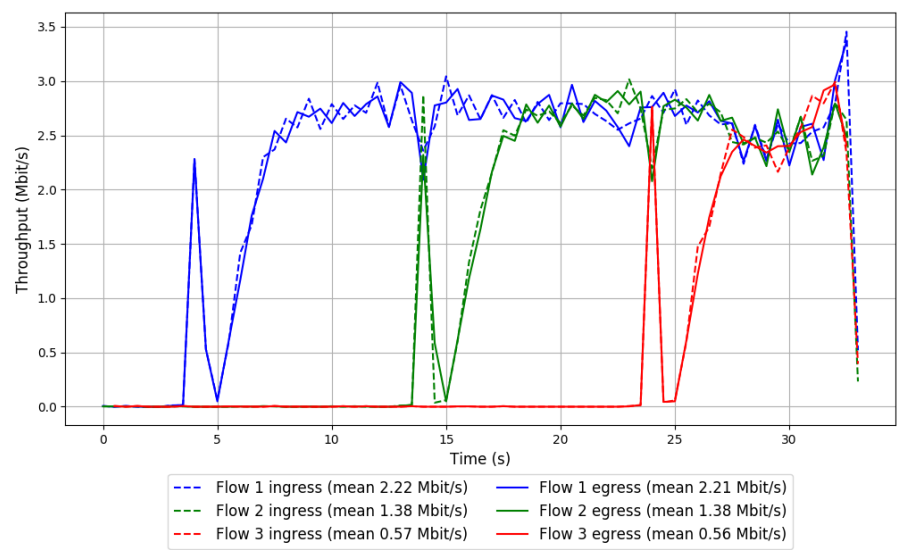
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.821 ms

Loss rate: 2.08%

Run 10: Report of WebRTC media — Data Link

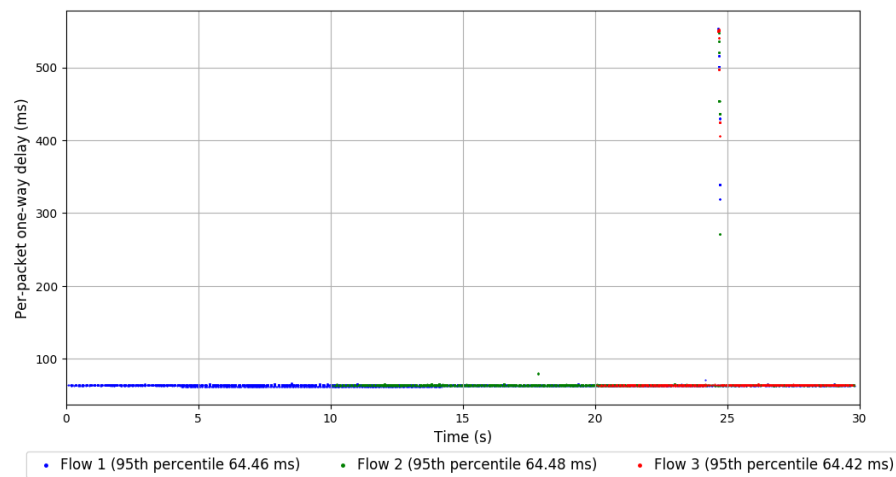
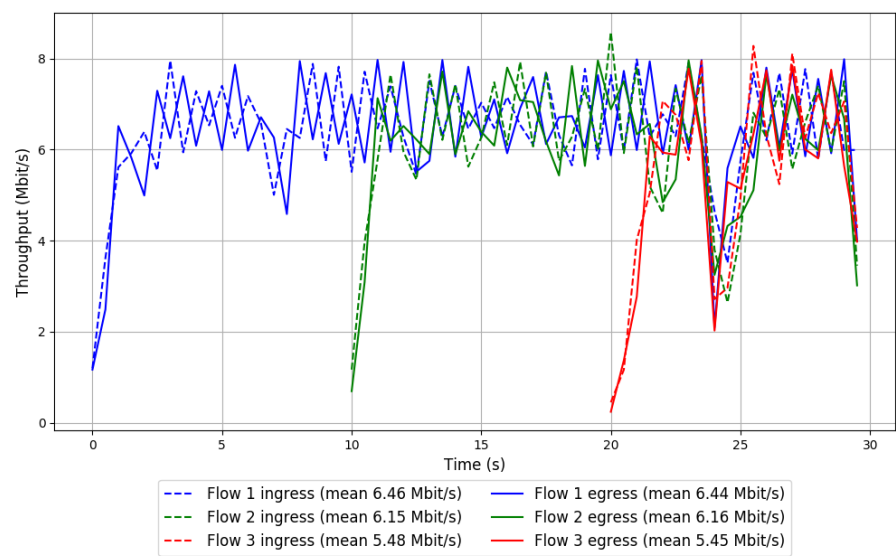


```
Run 1: Statistics of Sprout

Start at: 2017-12-21 04:51:45
End at: 2017-12-21 04:52:15

# Below is generated by plot.py at 2017-12-21 10:13:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 64.463 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 64.463 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 64.485 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 5.45 Mbit/s
95th percentile per-packet one-way delay: 64.424 ms
Loss rate: 2.11%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-21 05:06:18

End at: 2017-12-21 05:06:48

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.430 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 64.392 ms

Loss rate: 0.94%

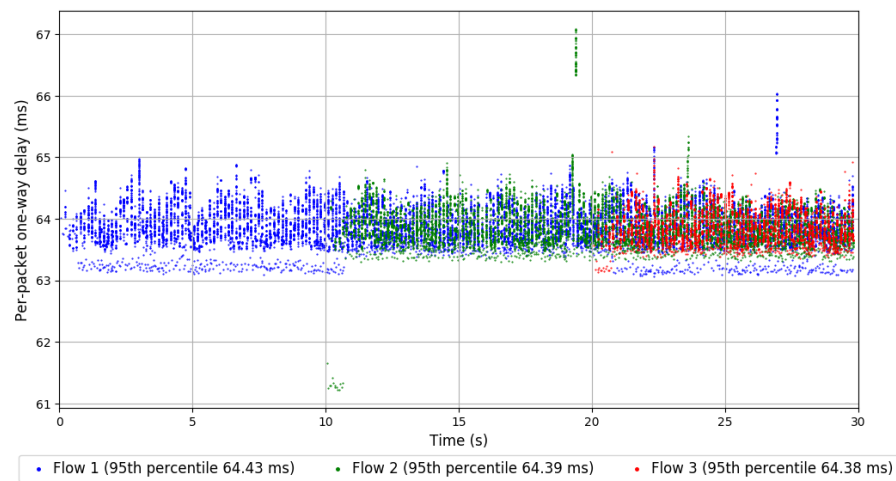
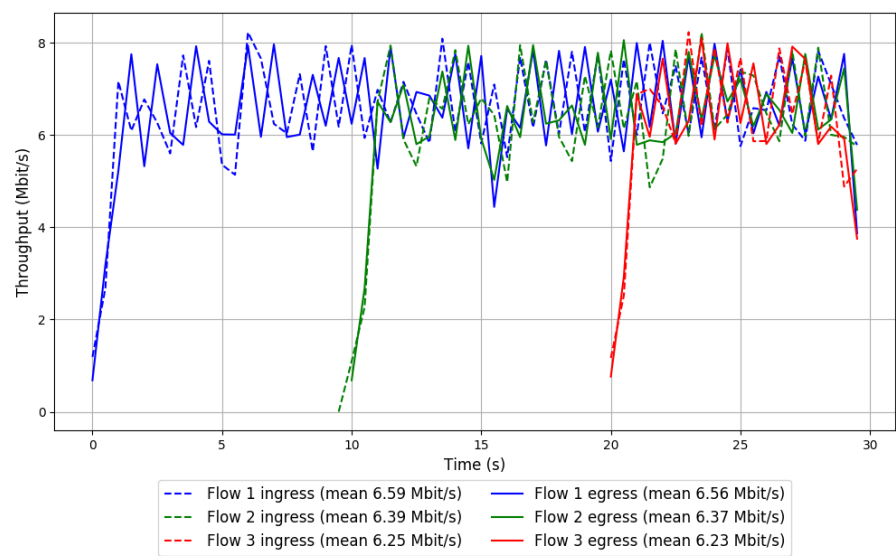
-- Flow 3:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 64.378 ms

Loss rate: 1.49%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-21 05:20:25

End at: 2017-12-21 05:20:55

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 64.271 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.222 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.270 ms

Loss rate: 0.70%

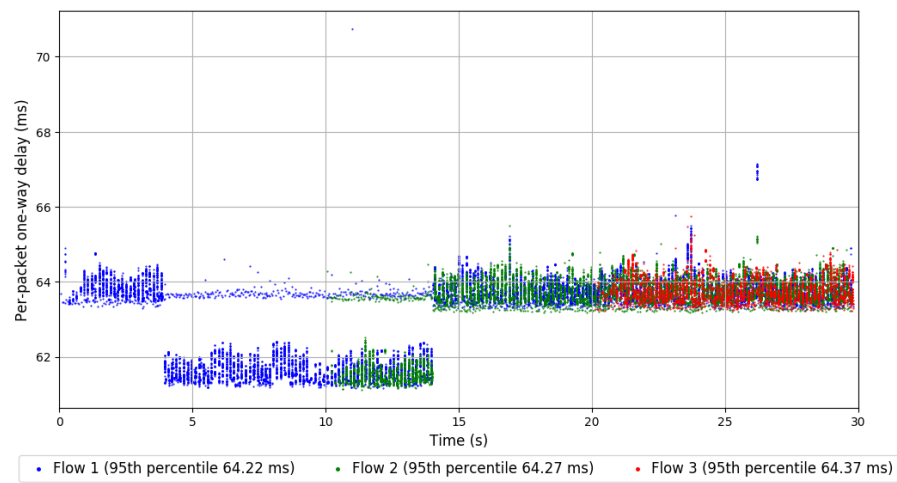
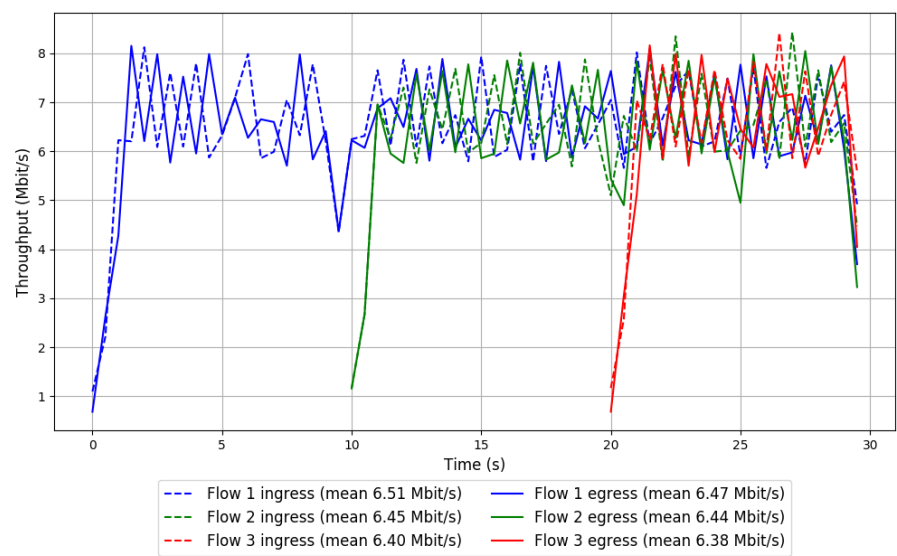
-- Flow 3:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 64.371 ms

Loss rate: 1.45%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-21 05:34:47

End at: 2017-12-21 05:35:17

Below is generated by plot.py at 2017-12-21 10:13:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 64.280 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.253 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.326 ms

Loss rate: 0.77%

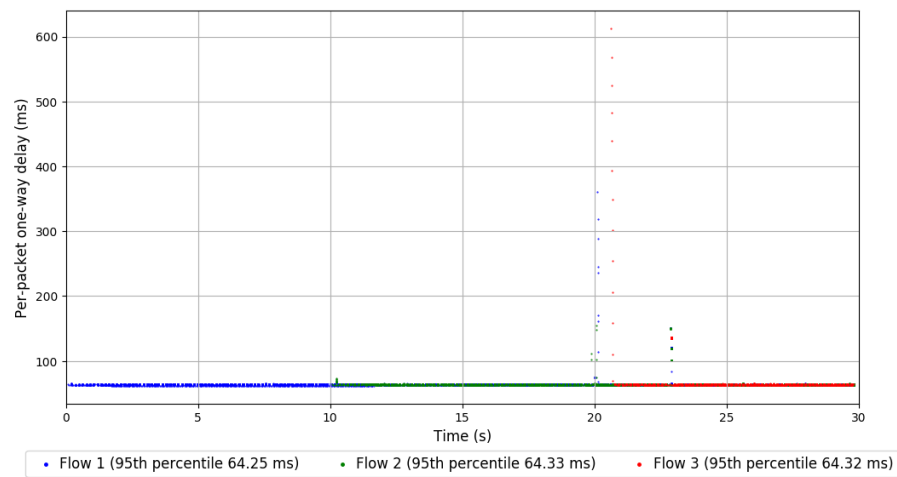
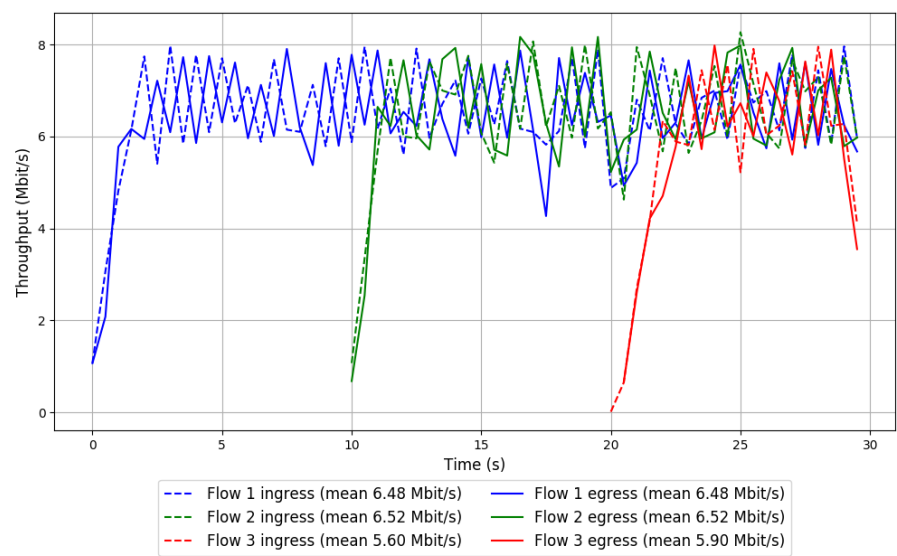
-- Flow 3:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 64.323 ms

Loss rate: 1.45%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-21 05:48:55

End at: 2017-12-21 05:49:25

Below is generated by plot.py at 2017-12-21 10:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 64.385 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.381 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 0.93%

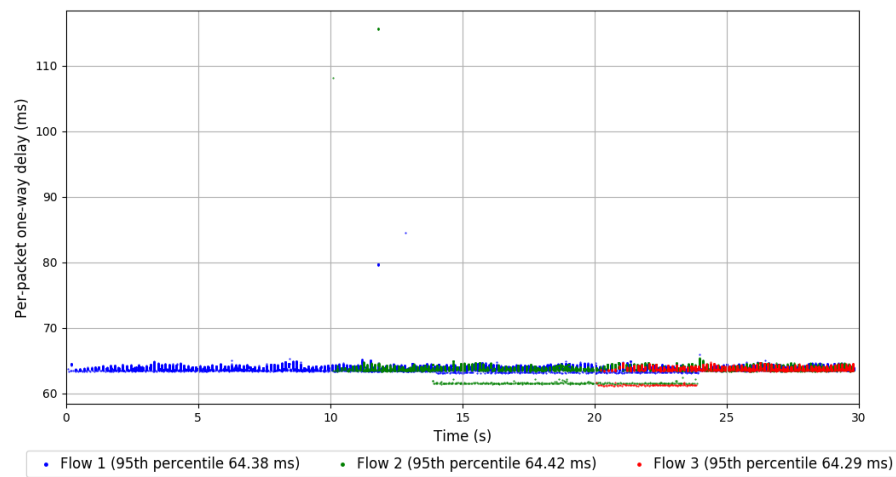
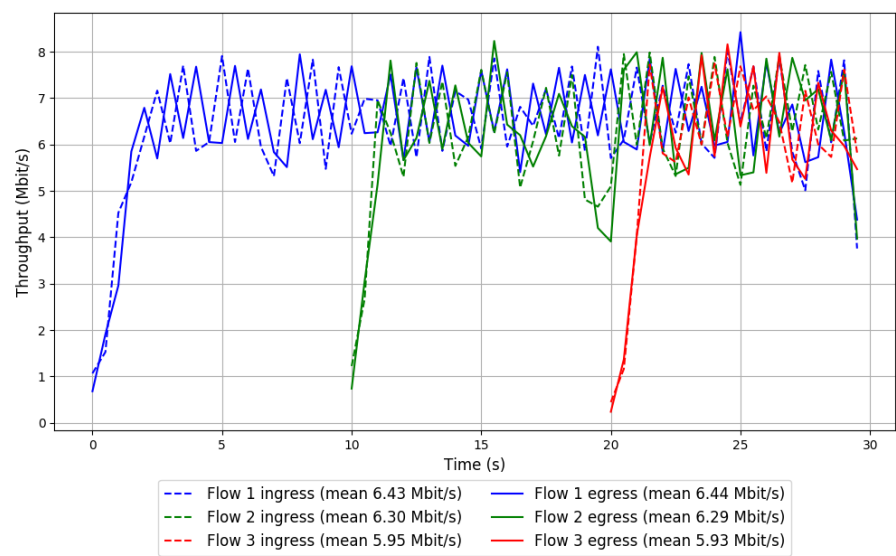
-- Flow 3:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 64.286 ms

Loss rate: 1.70%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-21 06:03:18

End at: 2017-12-21 06:03:48

Below is generated by plot.py at 2017-12-21 10:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 64.413 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 64.403 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.407 ms

Loss rate: 0.64%

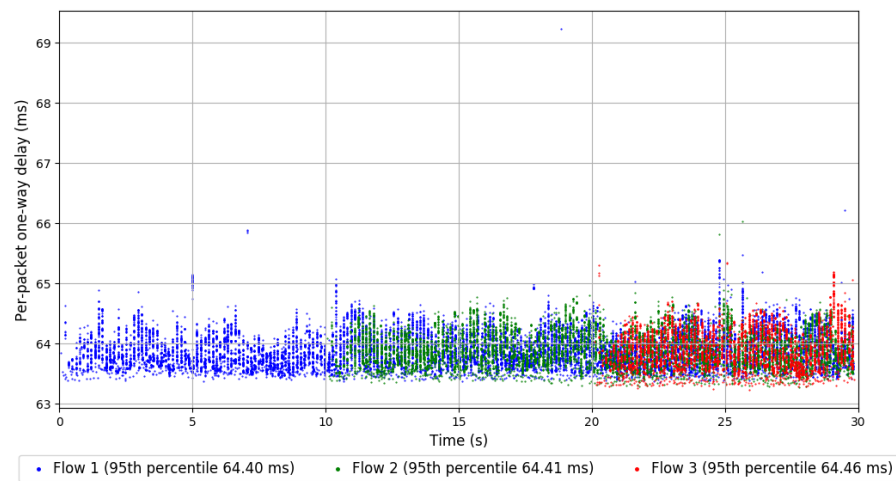
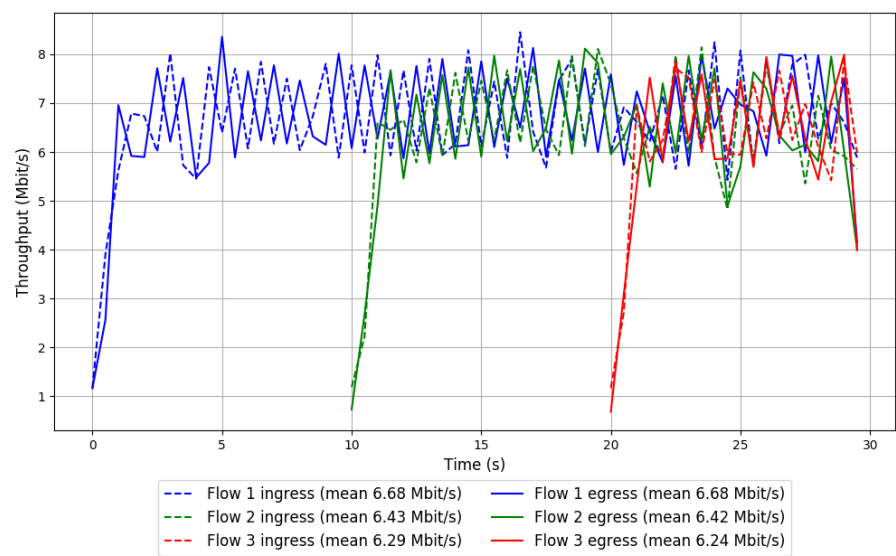
-- Flow 3:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 64.460 ms

Loss rate: 1.61%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-21 06:17:24

End at: 2017-12-21 06:17:54

Below is generated by plot.py at 2017-12-21 10:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 64.373 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.369 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.348 ms

Loss rate: 0.51%

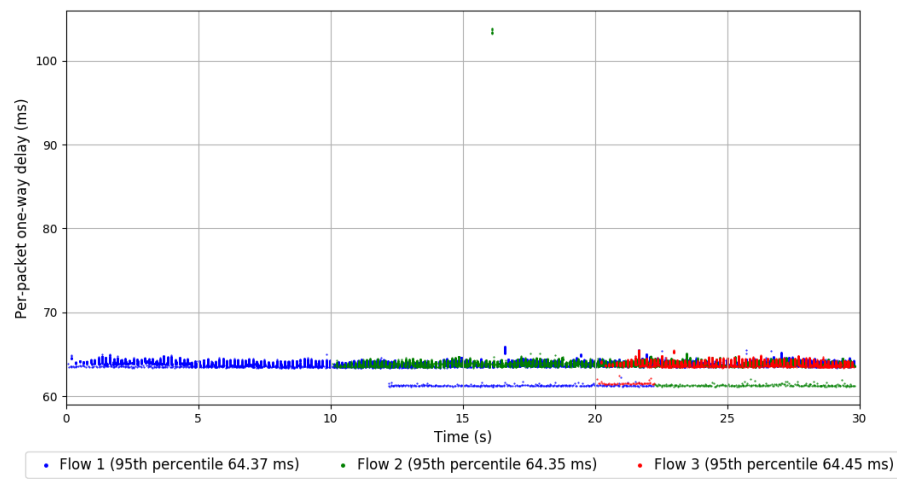
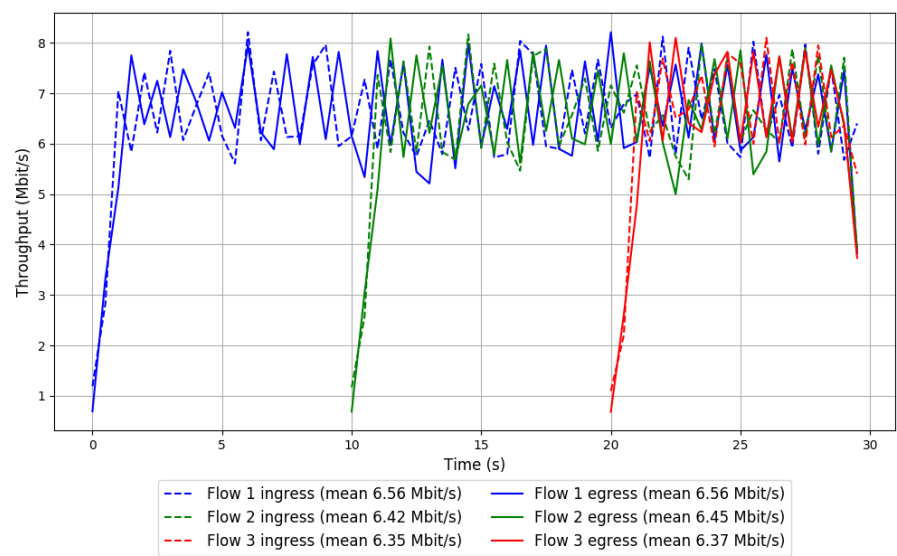
-- Flow 3:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 64.450 ms

Loss rate: 1.52%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-21 06:31:38

End at: 2017-12-21 06:32:08

Below is generated by plot.py at 2017-12-21 10:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 64.433 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.417 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 64.467 ms

Loss rate: 1.51%

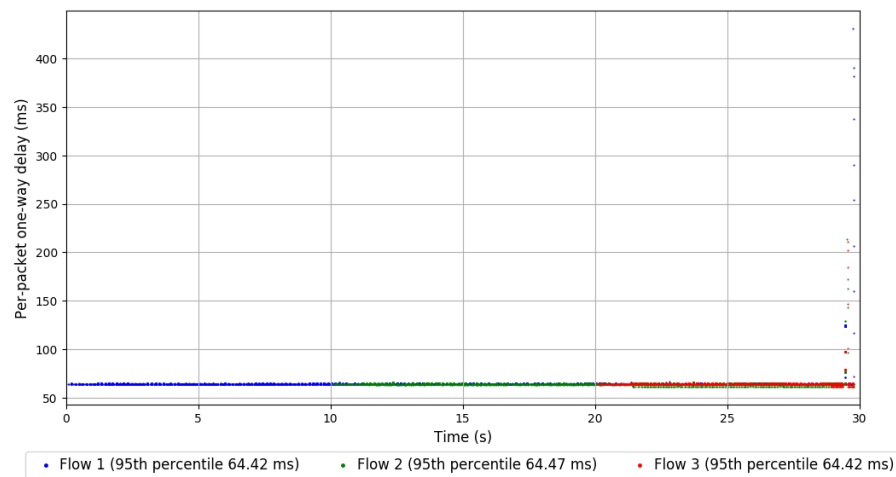
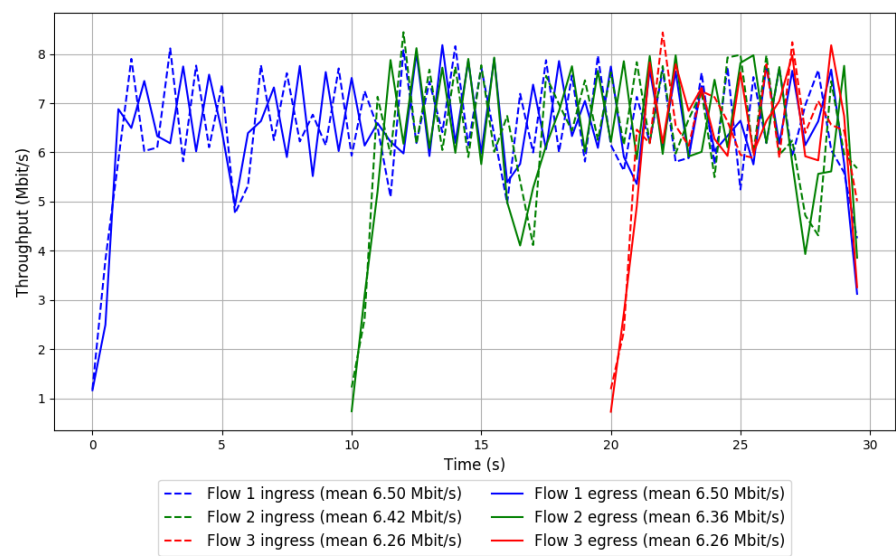
-- Flow 3:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 64.424 ms

Loss rate: 1.45%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-21 06:45:47

End at: 2017-12-21 06:46:17

Below is generated by plot.py at 2017-12-21 10:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 64.640 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 64.528 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 64.697 ms

Loss rate: 0.80%

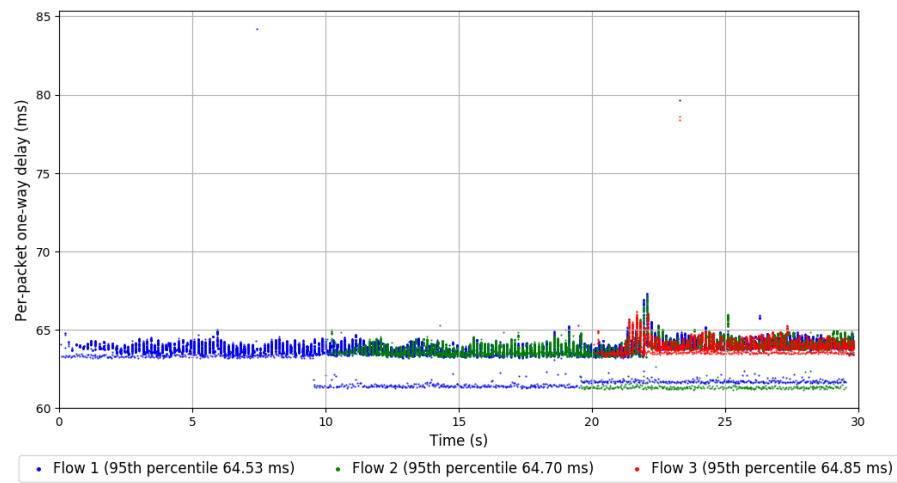
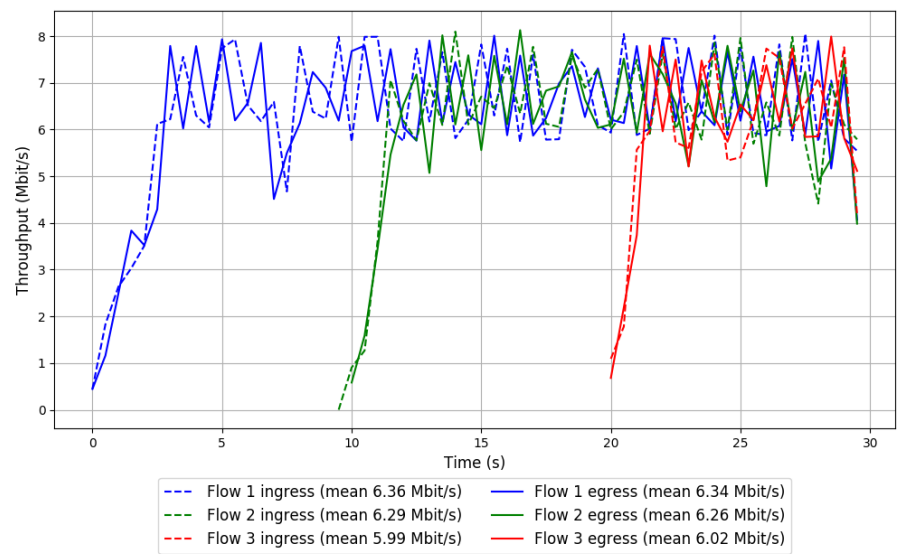
-- Flow 3:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 64.848 ms

Loss rate: 0.85%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-21 06:59:36

End at: 2017-12-21 07:00:06

Below is generated by plot.py at 2017-12-21 10:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 64.544 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 64.504 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 64.633 ms

Loss rate: 1.38%

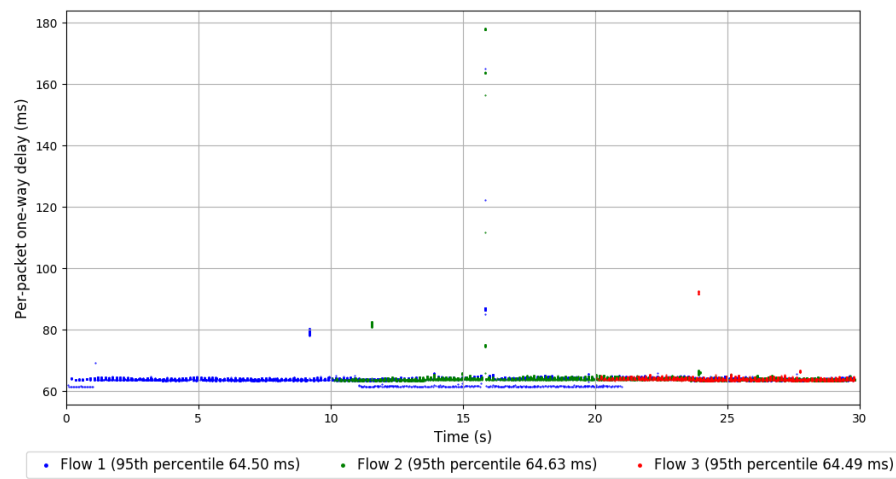
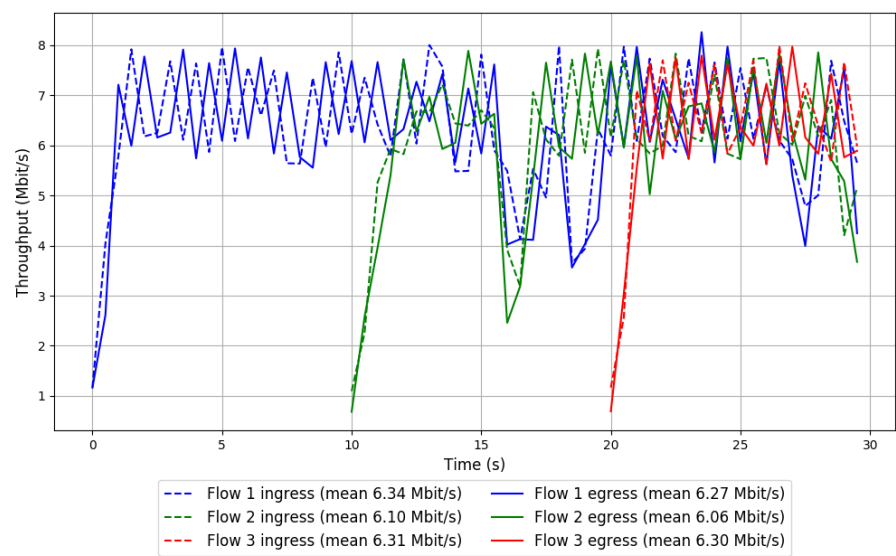
-- Flow 3:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 64.489 ms

Loss rate: 1.66%

Run 10: Report of Sprout — Data Link

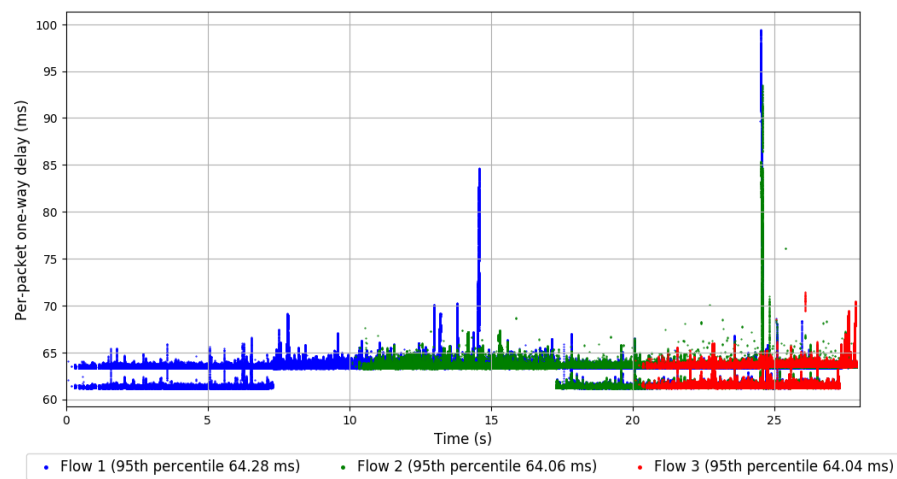
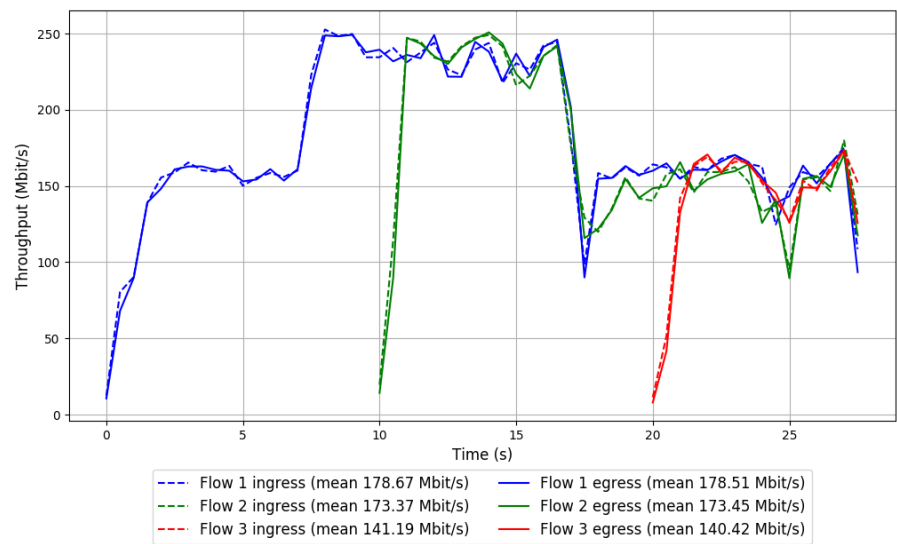


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-21 05:03:10
End at: 2017-12-21 05:03:40

# Below is generated by plot.py at 2017-12-21 10:17:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.86 Mbit/s
95th percentile per-packet one-way delay: 64.186 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 178.51 Mbit/s
95th percentile per-packet one-way delay: 64.277 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 173.45 Mbit/s
95th percentile per-packet one-way delay: 64.065 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 140.42 Mbit/s
95th percentile per-packet one-way delay: 64.039 ms
Loss rate: 2.11%
```


Run 1: Report of TaoVA-100x — Data Link

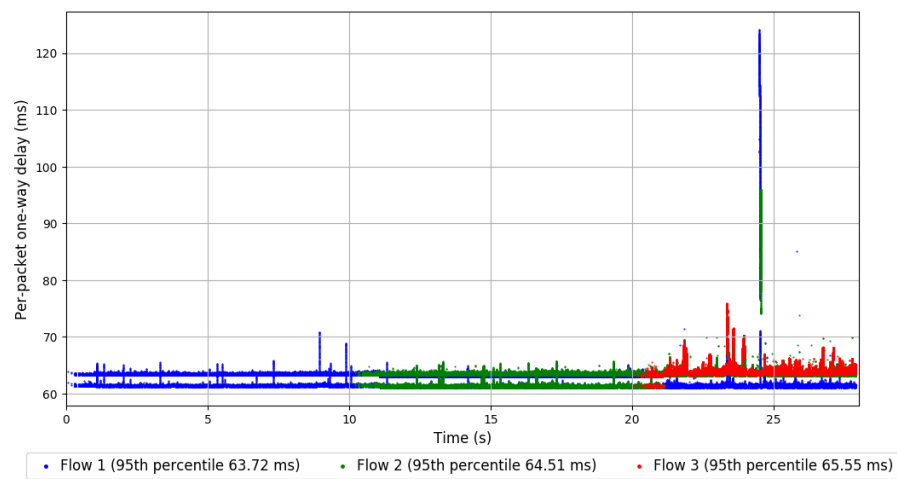
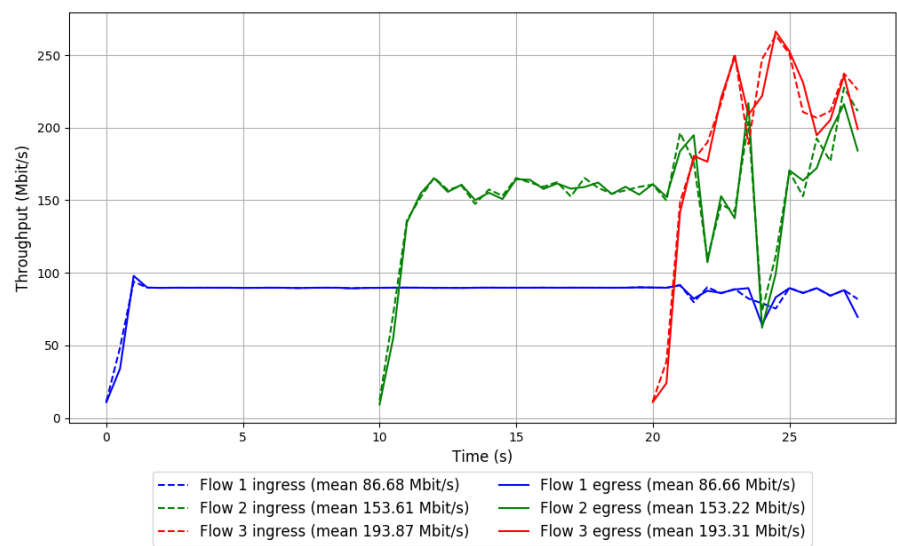


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-21 05:17:26
End at: 2017-12-21 05:17:56

# Below is generated by plot.py at 2017-12-21 10:17:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 238.99 Mbit/s
95th percentile per-packet one-way delay: 64.542 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 86.66 Mbit/s
95th percentile per-packet one-way delay: 63.718 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 153.22 Mbit/s
95th percentile per-packet one-way delay: 64.509 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 193.31 Mbit/s
95th percentile per-packet one-way delay: 65.552 ms
Loss rate: 1.90%
```

Run 2: Report of TaoVA-100x — Data Link

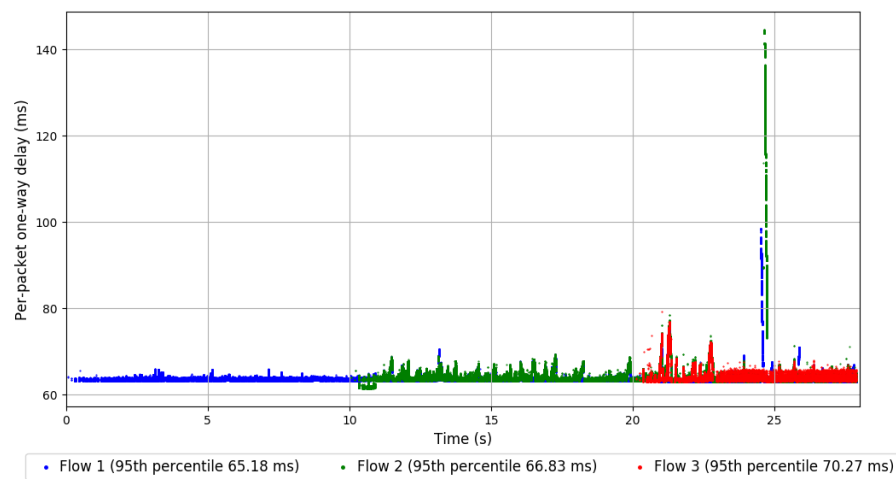
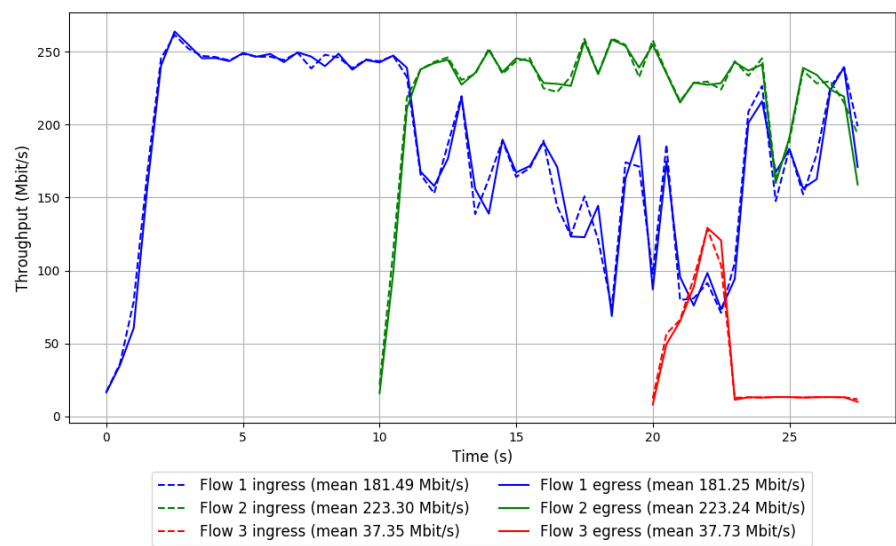


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-21 05:31:36
End at: 2017-12-21 05:32:06

# Below is generated by plot.py at 2017-12-21 10:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.72 Mbit/s
95th percentile per-packet one-way delay: 66.184 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 181.25 Mbit/s
95th percentile per-packet one-way delay: 65.180 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 223.24 Mbit/s
95th percentile per-packet one-way delay: 66.826 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 37.73 Mbit/s
95th percentile per-packet one-way delay: 70.270 ms
Loss rate: 0.57%
```

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-21 05:45:49

End at: 2017-12-21 05:46:20

Below is generated by plot.py at 2017-12-21 10:17:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.92 Mbit/s

95th percentile per-packet one-way delay: 68.402 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 199.44 Mbit/s

95th percentile per-packet one-way delay: 68.586 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 110.95 Mbit/s

95th percentile per-packet one-way delay: 68.743 ms

Loss rate: 0.33%

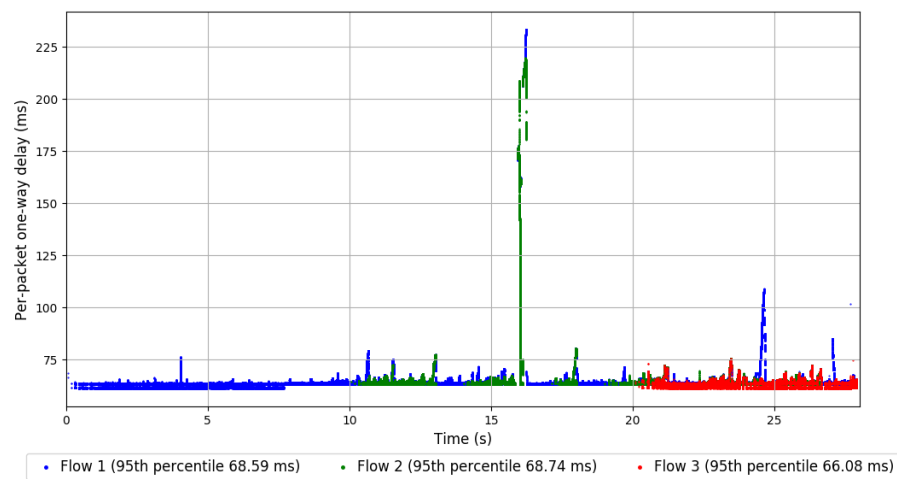
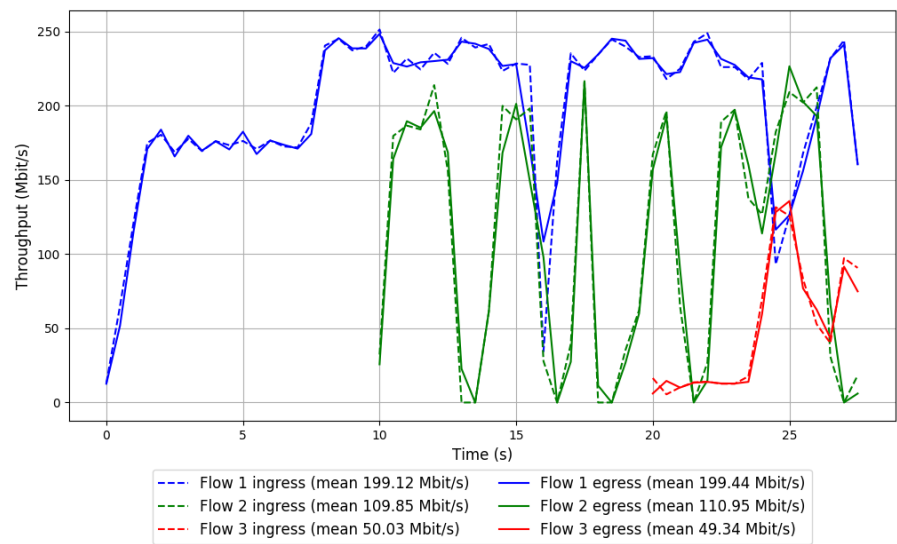
-- Flow 3:

Average throughput: 49.34 Mbit/s

95th percentile per-packet one-way delay: 66.076 ms

Loss rate: 2.97%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-21 06:00:05

End at: 2017-12-21 06:00:35

Below is generated by plot.py at 2017-12-21 10:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.76 Mbit/s

95th percentile per-packet one-way delay: 64.301 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 227.66 Mbit/s

95th percentile per-packet one-way delay: 64.167 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 163.43 Mbit/s

95th percentile per-packet one-way delay: 64.281 ms

Loss rate: 0.54%

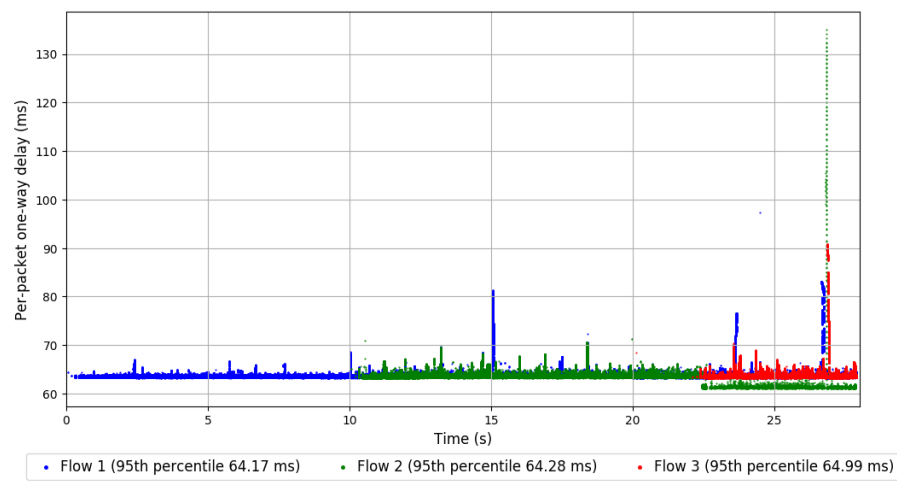
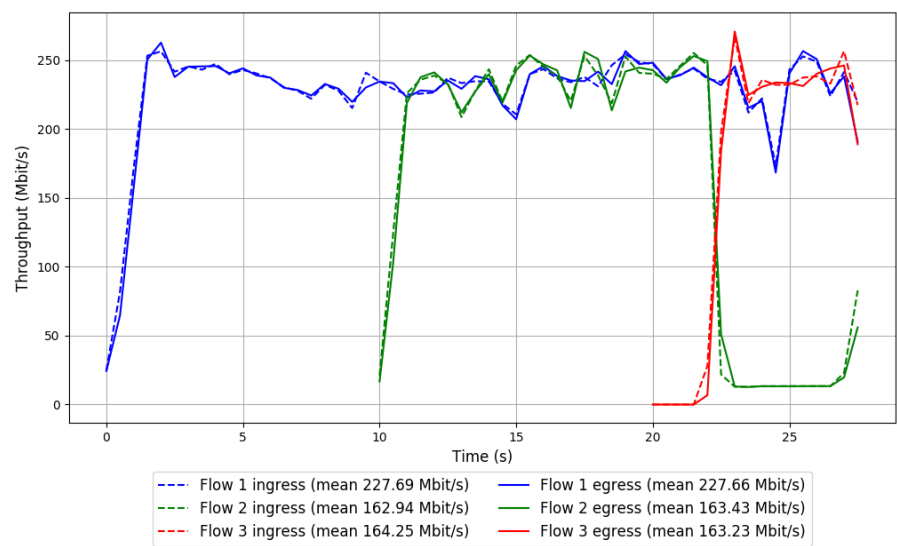
-- Flow 3:

Average throughput: 163.23 Mbit/s

95th percentile per-packet one-way delay: 64.993 ms

Loss rate: 2.30%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-21 06:14:16

End at: 2017-12-21 06:14:46

Below is generated by plot.py at 2017-12-21 10:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.13 Mbit/s

95th percentile per-packet one-way delay: 64.315 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 177.70 Mbit/s

95th percentile per-packet one-way delay: 63.838 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 224.61 Mbit/s

95th percentile per-packet one-way delay: 64.794 ms

Loss rate: 0.11%

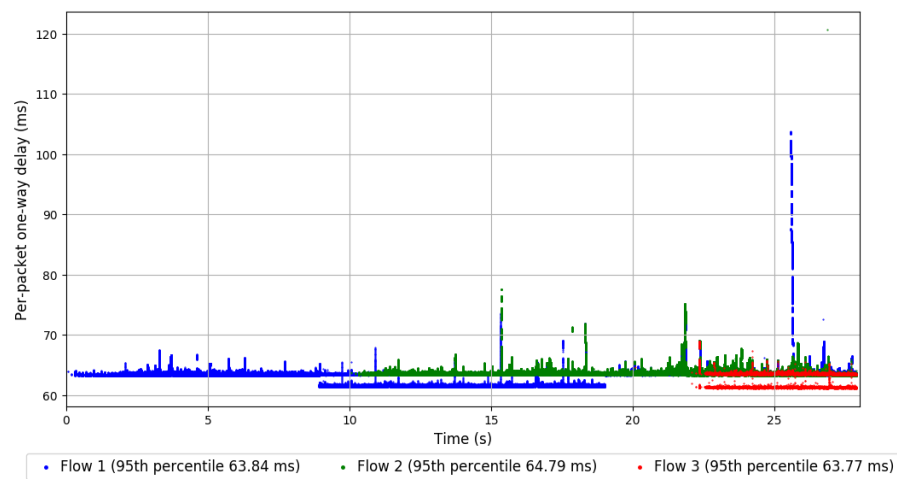
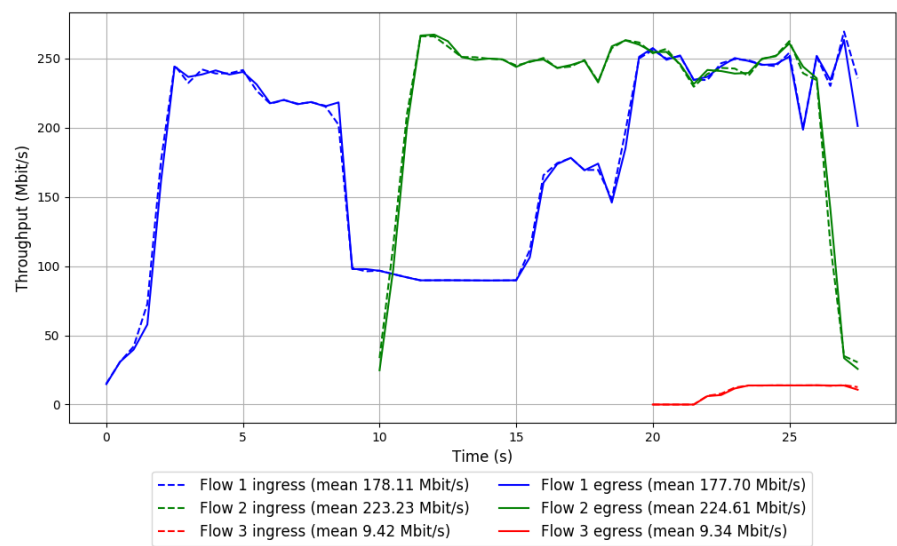
-- Flow 3:

Average throughput: 9.34 Mbit/s

95th percentile per-packet one-way delay: 63.772 ms

Loss rate: 2.49%

Run 6: Report of TaoVA-100x — Data Link

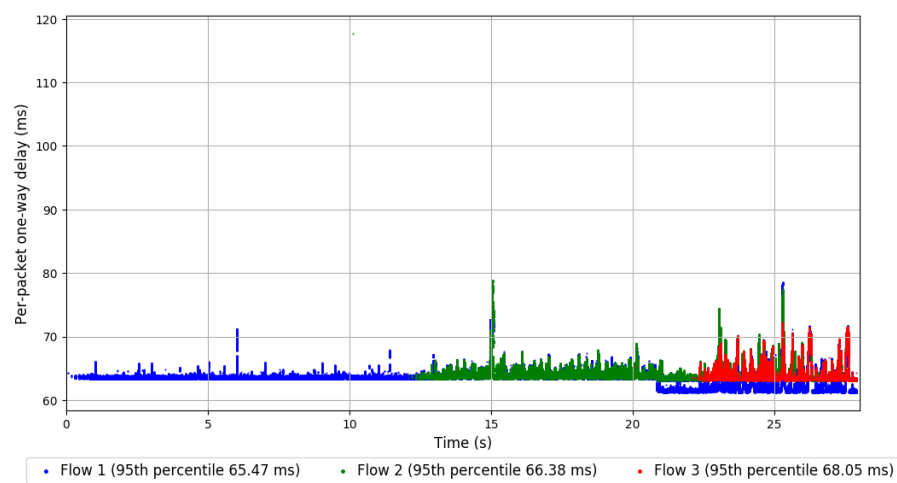
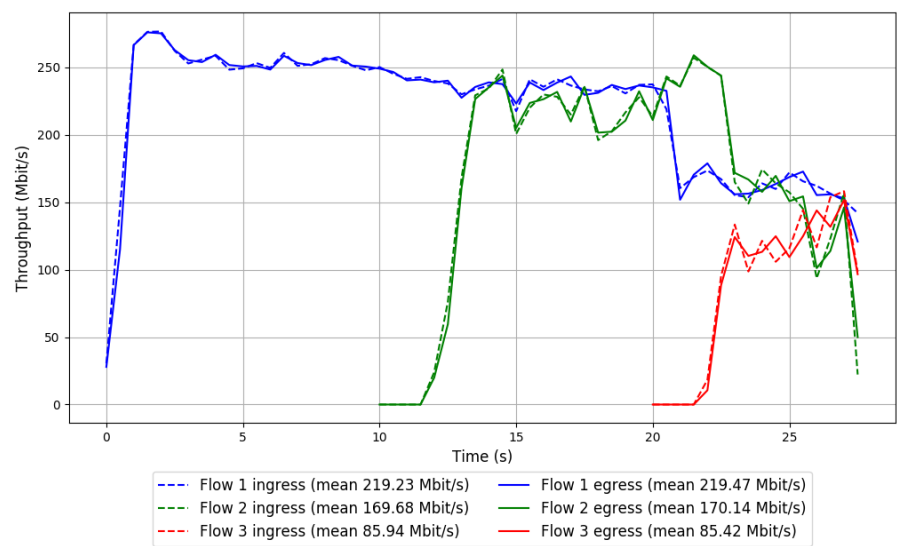


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-21 06:28:26
End at: 2017-12-21 06:28:56

# Below is generated by plot.py at 2017-12-21 10:23:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.31 Mbit/s
95th percentile per-packet one-way delay: 65.918 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 219.47 Mbit/s
95th percentile per-packet one-way delay: 65.475 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 170.14 Mbit/s
95th percentile per-packet one-way delay: 66.382 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 68.051 ms
Loss rate: 2.23%
```

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-21 06:42:39

End at: 2017-12-21 06:43:09

Below is generated by plot.py at 2017-12-21 10:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.75 Mbit/s

95th percentile per-packet one-way delay: 65.723 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 195.06 Mbit/s

95th percentile per-packet one-way delay: 64.746 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 200.96 Mbit/s

95th percentile per-packet one-way delay: 68.041 ms

Loss rate: 0.74%

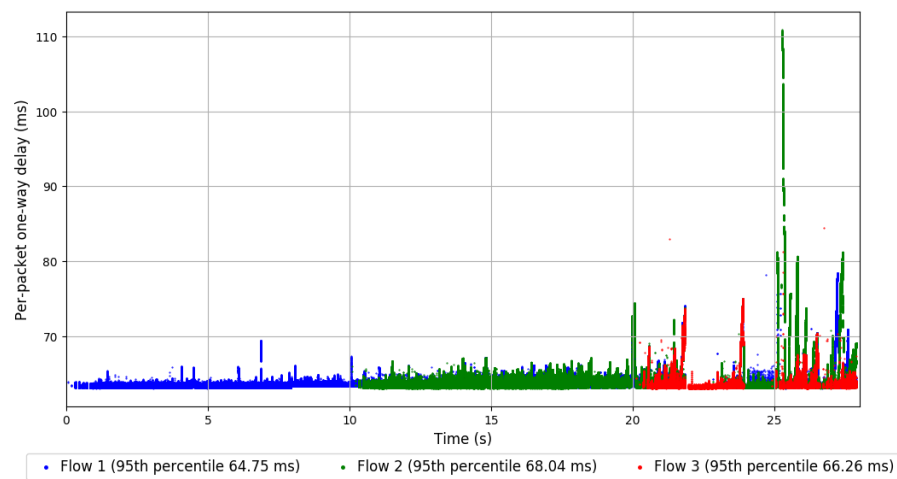
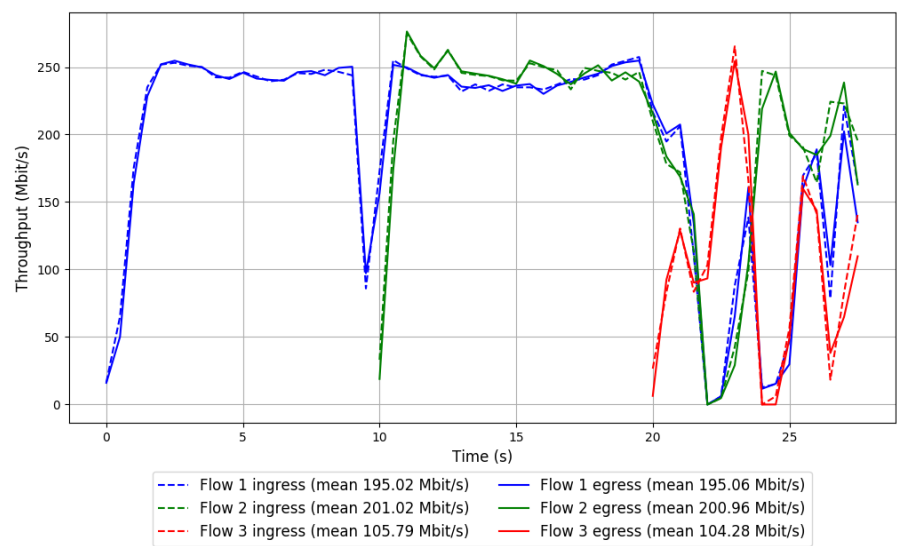
-- Flow 3:

Average throughput: 104.28 Mbit/s

95th percentile per-packet one-way delay: 66.257 ms

Loss rate: 2.98%

Run 8: Report of TaoVA-100x — Data Link

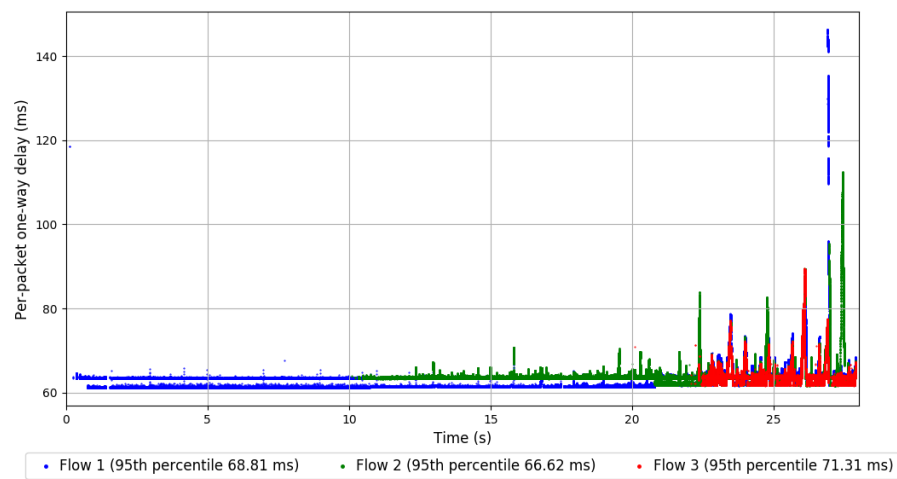
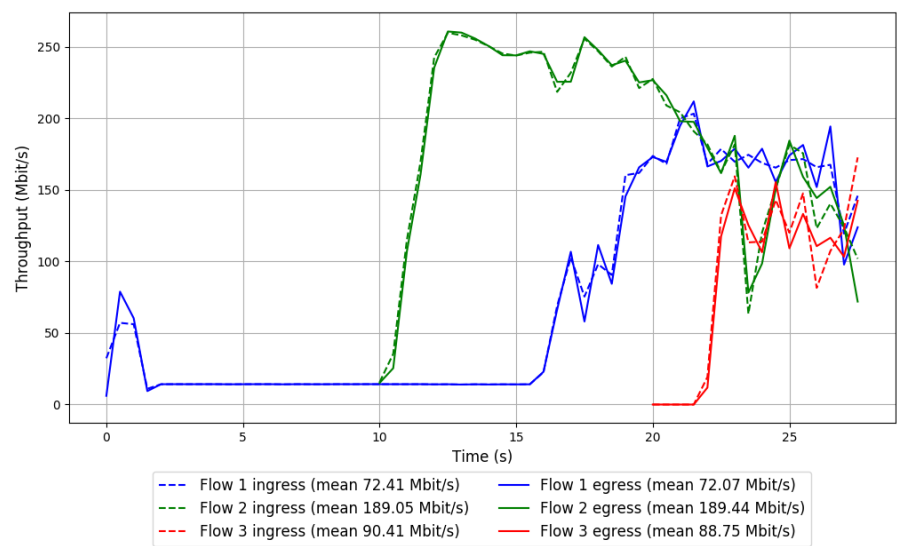


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-21 06:56:36
End at: 2017-12-21 06:57:06

# Below is generated by plot.py at 2017-12-21 10:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.41 Mbit/s
95th percentile per-packet one-way delay: 68.059 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 72.07 Mbit/s
95th percentile per-packet one-way delay: 68.807 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 189.44 Mbit/s
95th percentile per-packet one-way delay: 66.623 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 71.308 ms
Loss rate: 3.48%
```


Run 9: Report of TaoVA-100x — Data Link

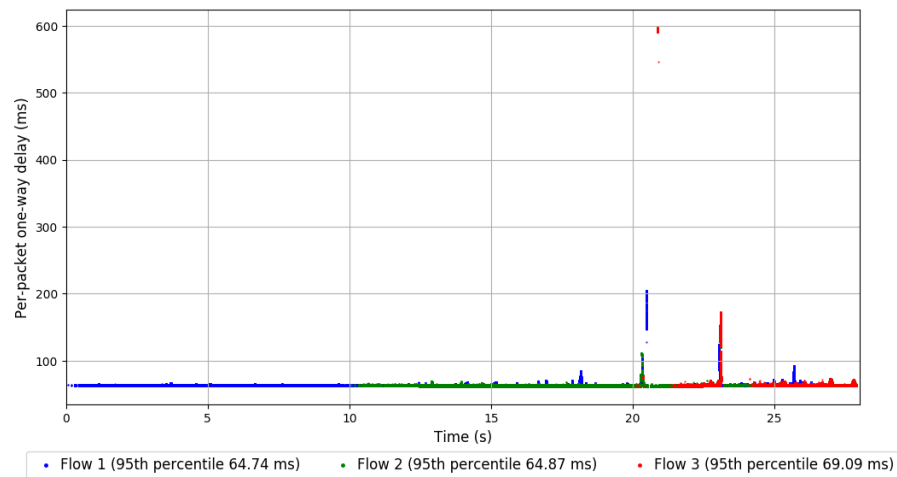
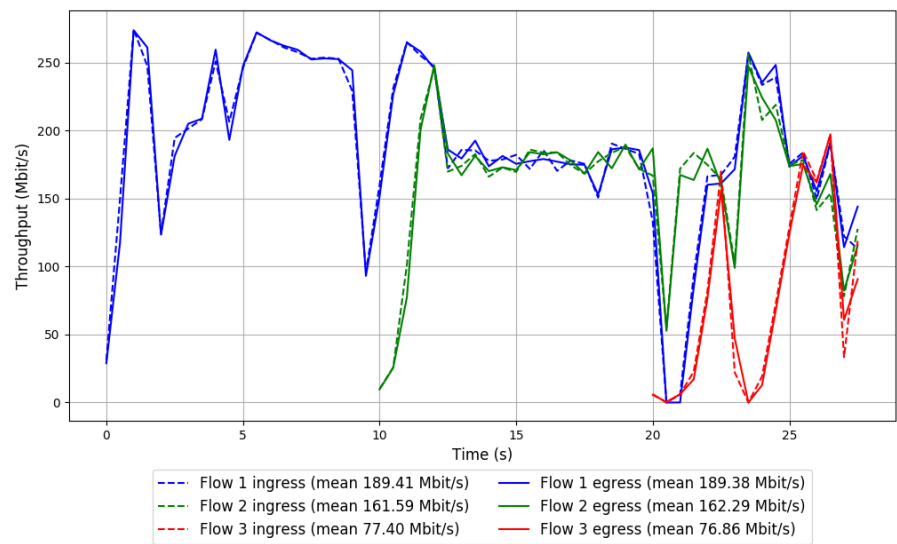


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-21 07:10:45
End at: 2017-12-21 07:11:15

# Below is generated by plot.py at 2017-12-21 10:25:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 314.38 Mbit/s
95th percentile per-packet one-way delay: 65.199 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 189.38 Mbit/s
95th percentile per-packet one-way delay: 64.742 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 162.29 Mbit/s
95th percentile per-packet one-way delay: 64.870 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 69.086 ms
Loss rate: 2.29%
```

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2017-12-21 04:53:07

End at: 2017-12-21 04:53:37

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.03 Mbit/s

95th percentile per-packet one-way delay: 64.211 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 64.144 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 34.50 Mbit/s

95th percentile per-packet one-way delay: 64.175 ms

Loss rate: 0.74%

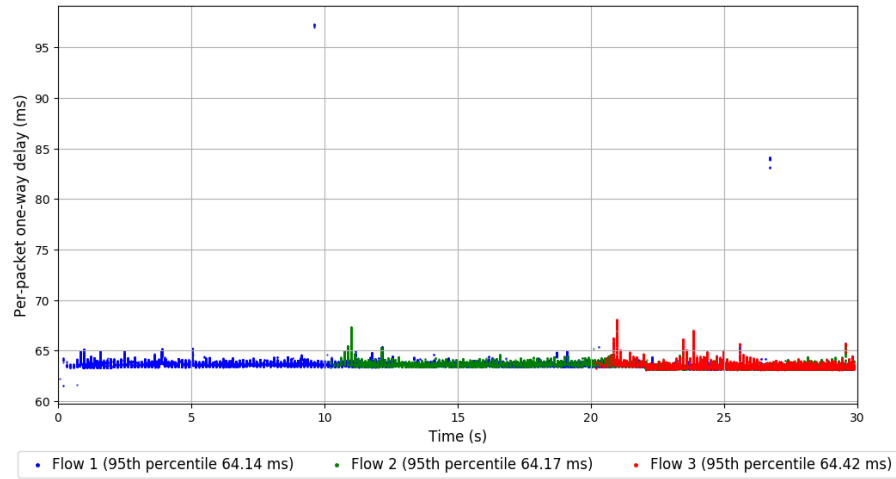
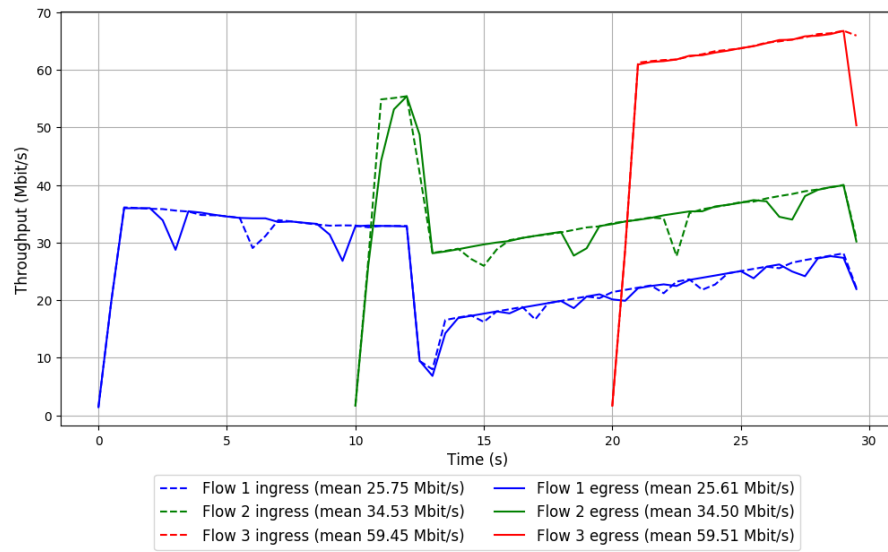
-- Flow 3:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 1.43%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-21 05:07:41

End at: 2017-12-21 05:08:11

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 64.847 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 64.601 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 66.074 ms

Loss rate: 0.55%

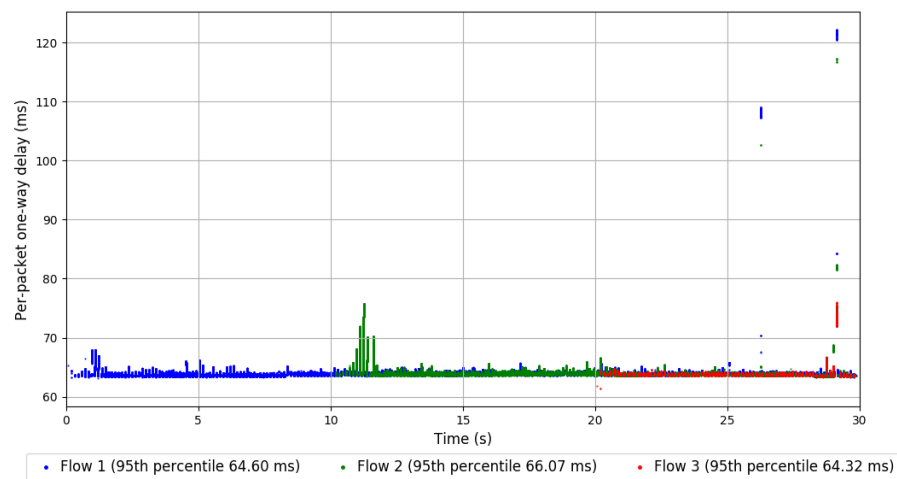
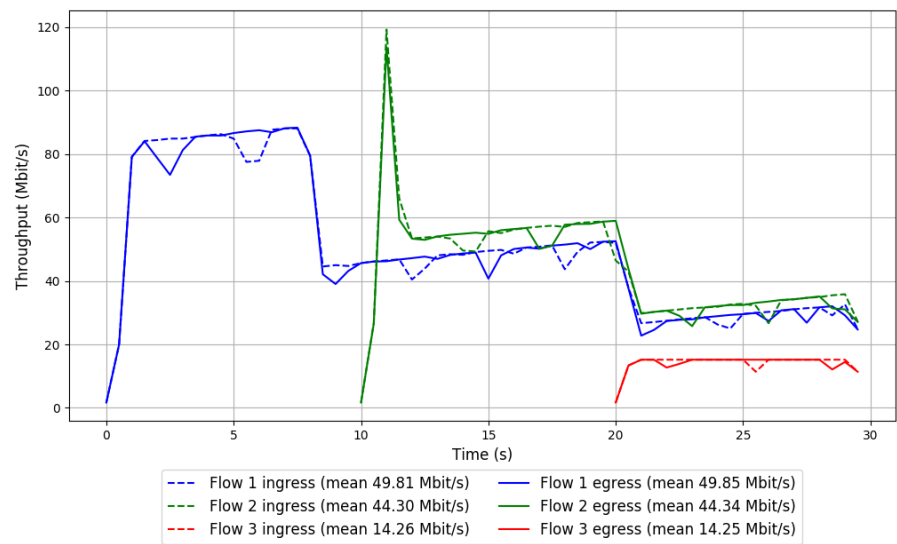
-- Flow 3:

Average throughput: 14.25 Mbit/s

95th percentile per-packet one-way delay: 64.318 ms

Loss rate: 1.35%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-21 05:21:48

End at: 2017-12-21 05:22:18

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 64.227 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 25.40 Mbit/s

95th percentile per-packet one-way delay: 64.025 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 64.053 ms

Loss rate: 1.33%

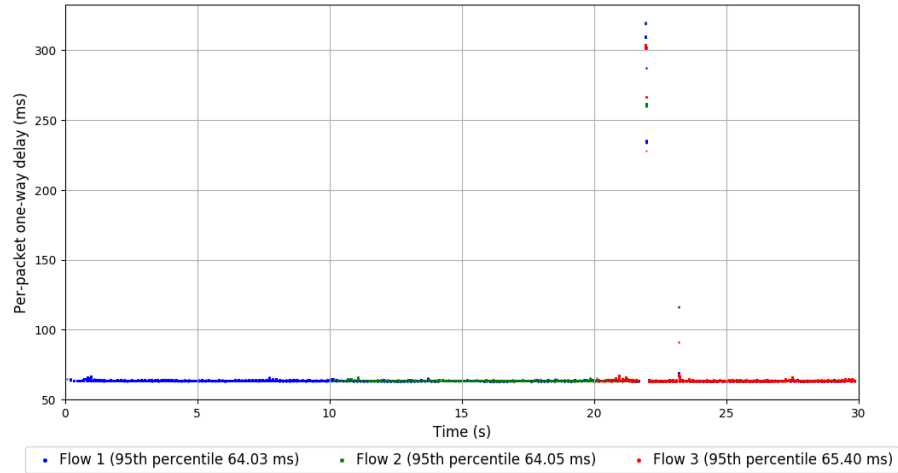
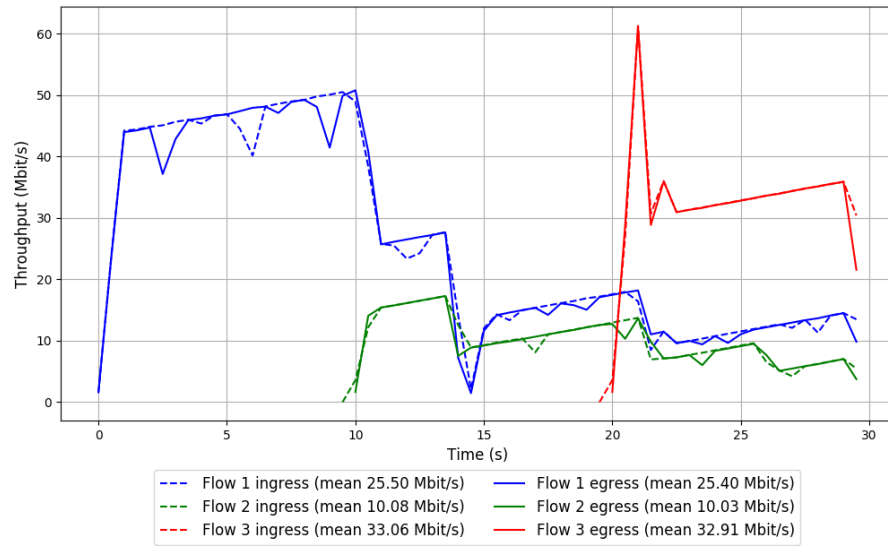
-- Flow 3:

Average throughput: 32.91 Mbit/s

95th percentile per-packet one-way delay: 65.402 ms

Loss rate: 1.70%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-21 05:36:10

End at: 2017-12-21 05:36:40

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 69.540 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 19.32 Mbit/s

95th percentile per-packet one-way delay: 67.036 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 67.290 ms

Loss rate: 0.66%

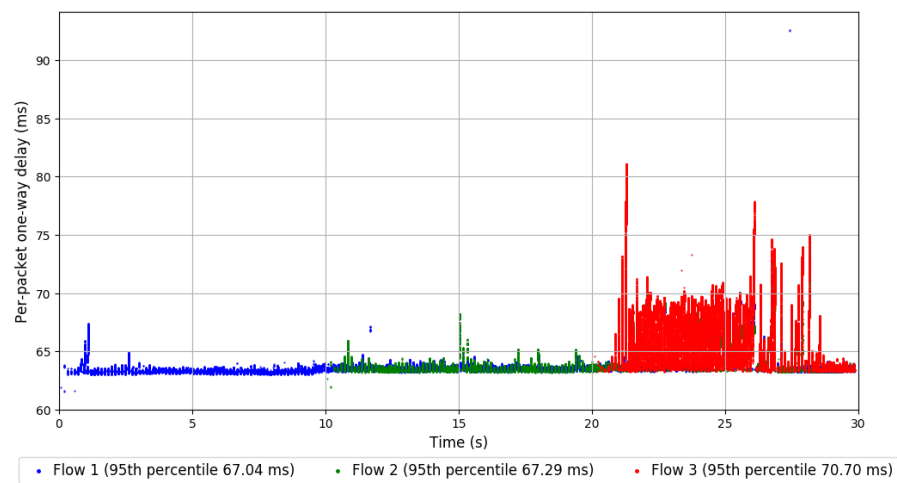
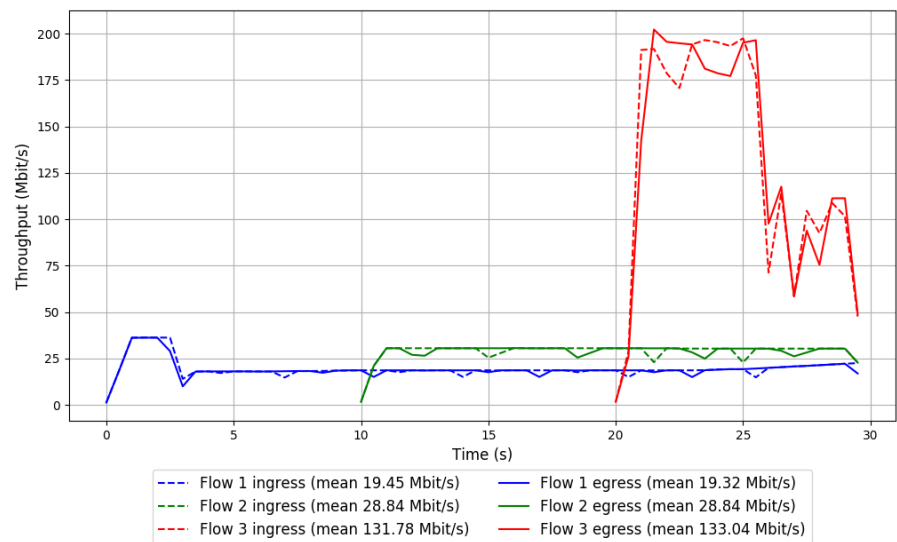
-- Flow 3:

Average throughput: 133.04 Mbit/s

95th percentile per-packet one-way delay: 70.697 ms

Loss rate: 0.60%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-21 05:50:18

End at: 2017-12-21 05:50:48

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.84 Mbit/s

95th percentile per-packet one-way delay: 68.588 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 65.104 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 67.90 Mbit/s

95th percentile per-packet one-way delay: 70.159 ms

Loss rate: 0.61%

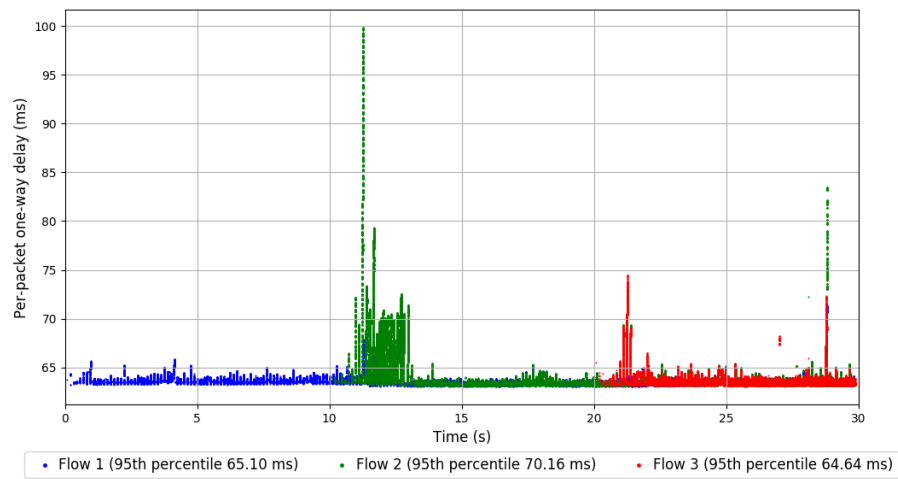
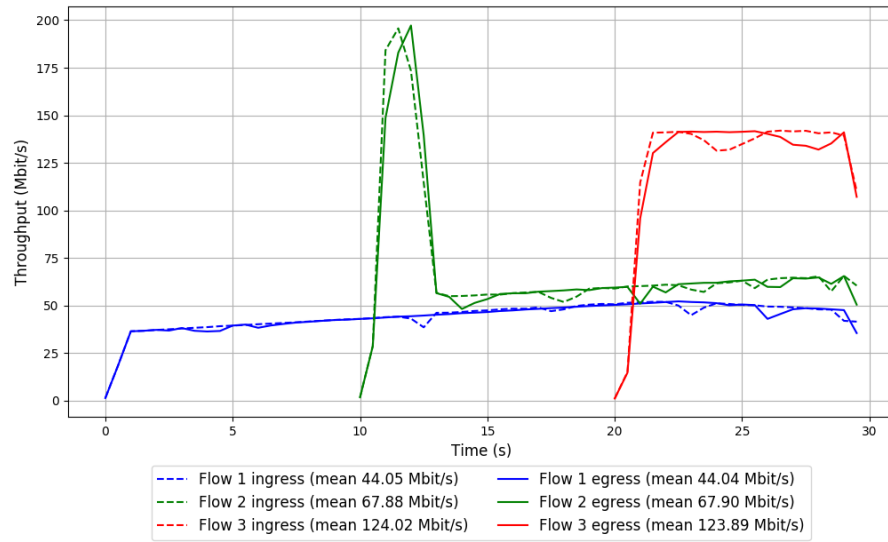
-- Flow 3:

Average throughput: 123.89 Mbit/s

95th percentile per-packet one-way delay: 64.635 ms

Loss rate: 1.43%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-21 06:04:41

End at: 2017-12-21 06:05:11

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.29 Mbit/s

95th percentile per-packet one-way delay: 64.791 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 31.65 Mbit/s

95th percentile per-packet one-way delay: 64.575 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 63.45 Mbit/s

95th percentile per-packet one-way delay: 64.731 ms

Loss rate: 0.72%

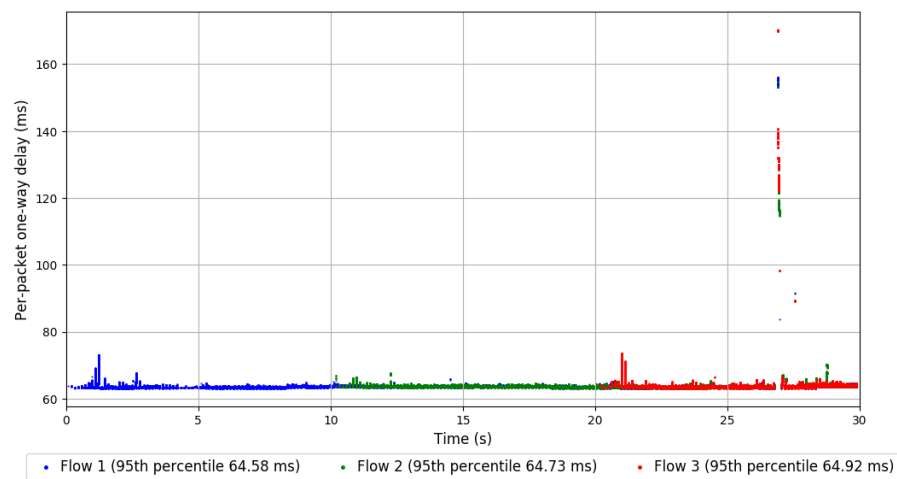
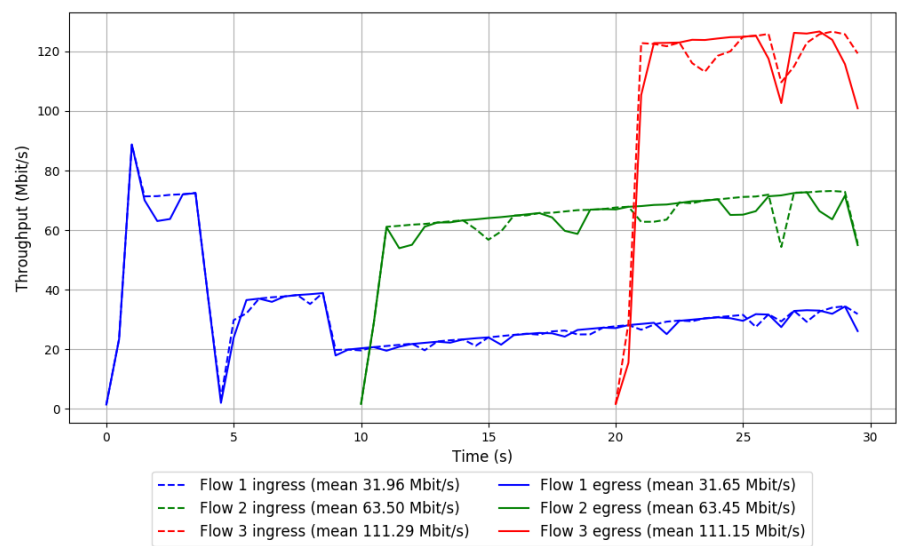
-- Flow 3:

Average throughput: 111.15 Mbit/s

95th percentile per-packet one-way delay: 64.921 ms

Loss rate: 1.42%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-21 06:18:47

End at: 2017-12-21 06:19:17

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.43 Mbit/s

95th percentile per-packet one-way delay: 64.600 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 64.440 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 65.020 ms

Loss rate: 0.72%

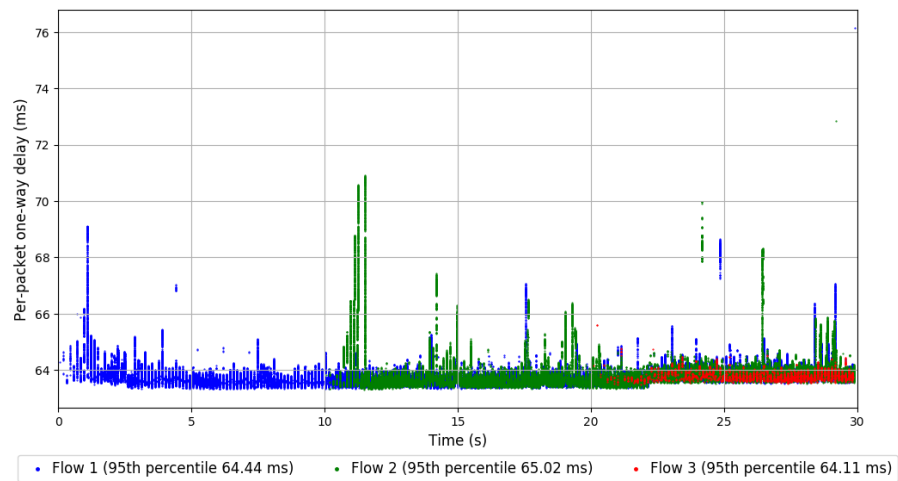
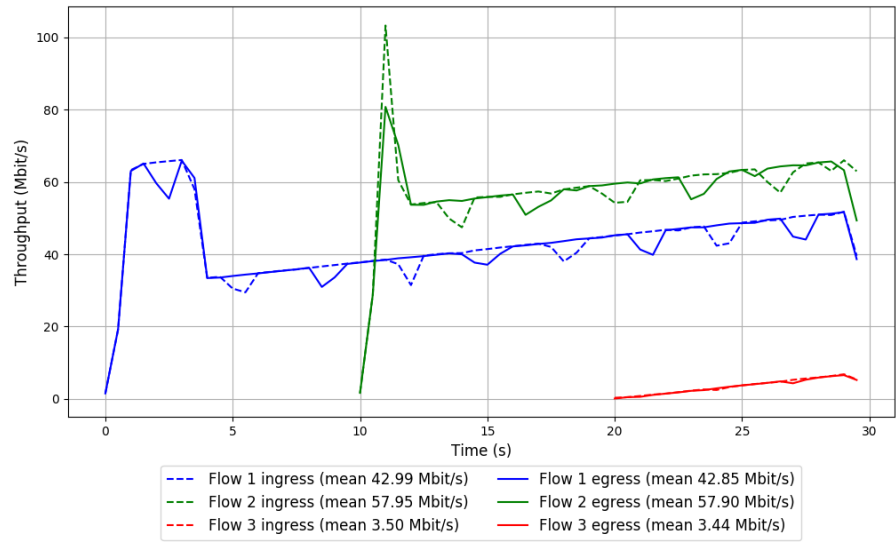
-- Flow 3:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 64.109 ms

Loss rate: 2.95%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-21 06:33:00

End at: 2017-12-21 06:33:30

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.34 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 70.08 Mbit/s

95th percentile per-packet one-way delay: 64.176 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 63.989 ms

Loss rate: 1.28%

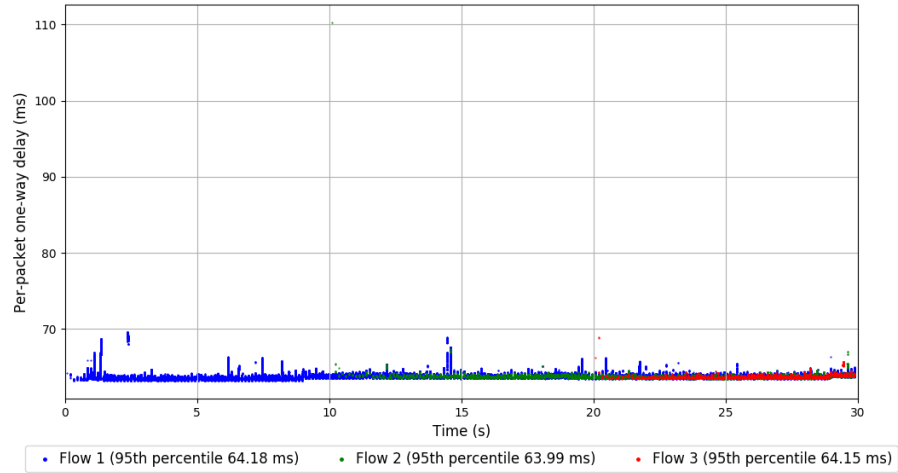
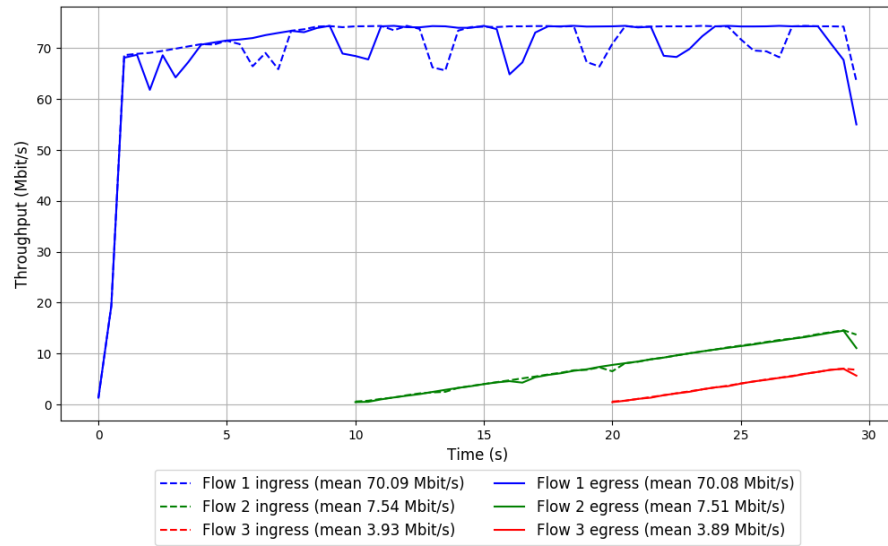
-- Flow 3:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 64.147 ms

Loss rate: 2.37%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-21 06:47:10

End at: 2017-12-21 06:47:40

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 70.709 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 55.23 Mbit/s

95th percentile per-packet one-way delay: 69.239 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 69.311 ms

Loss rate: 1.16%

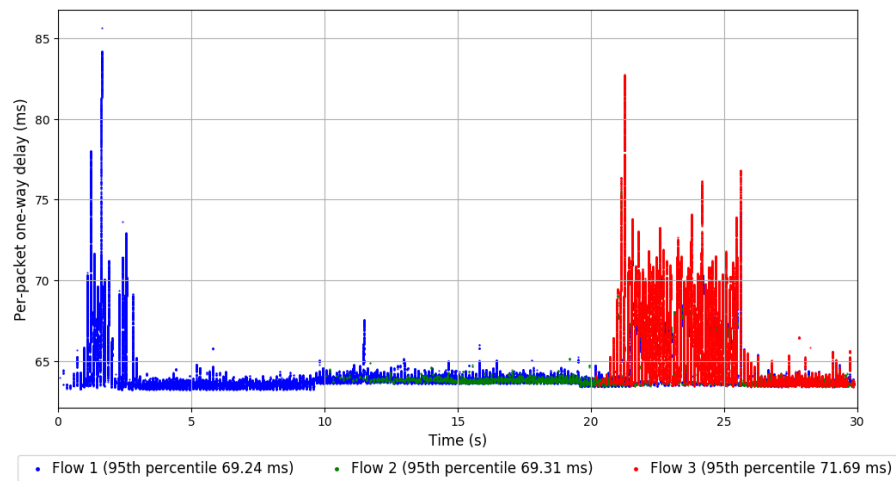
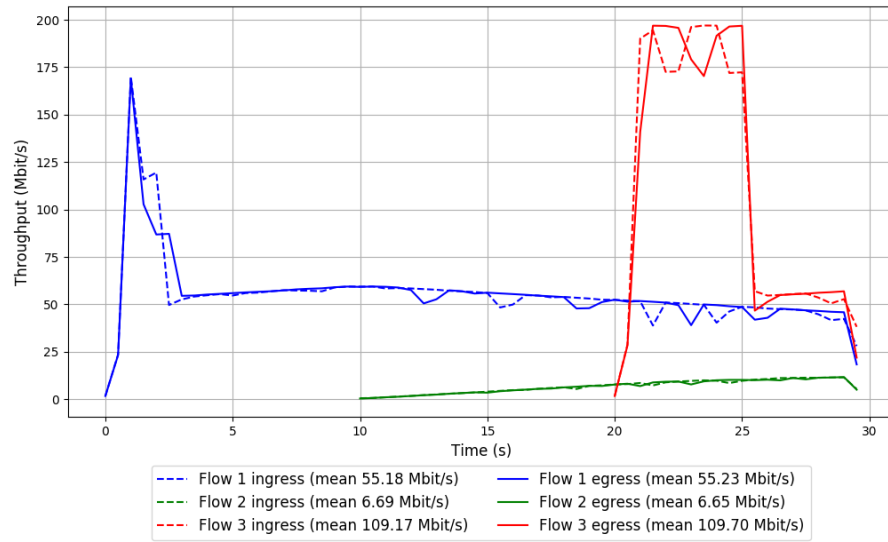
-- Flow 3:

Average throughput: 109.70 Mbit/s

95th percentile per-packet one-way delay: 71.685 ms

Loss rate: 0.81%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-21 07:00:58

End at: 2017-12-21 07:01:28

Below is generated by plot.py at 2017-12-21 10:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 64.660 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 51.18 Mbit/s

95th percentile per-packet one-way delay: 63.921 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 64.221 ms

Loss rate: 1.35%

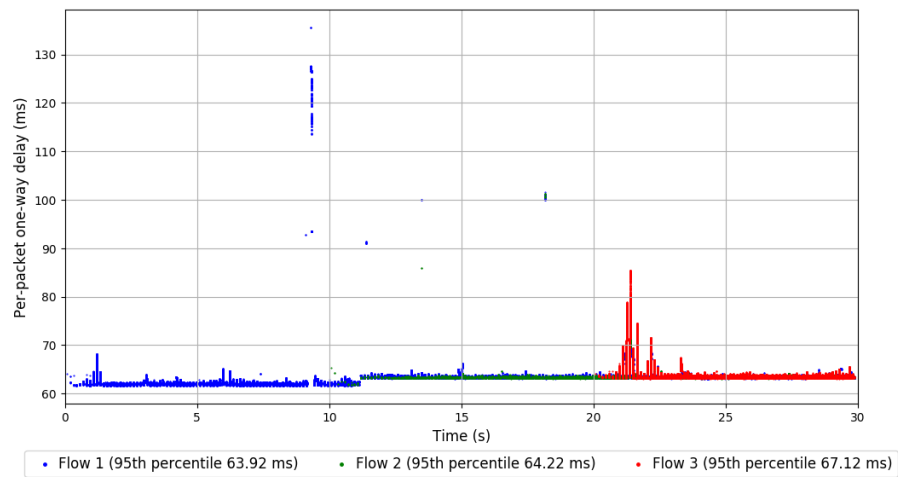
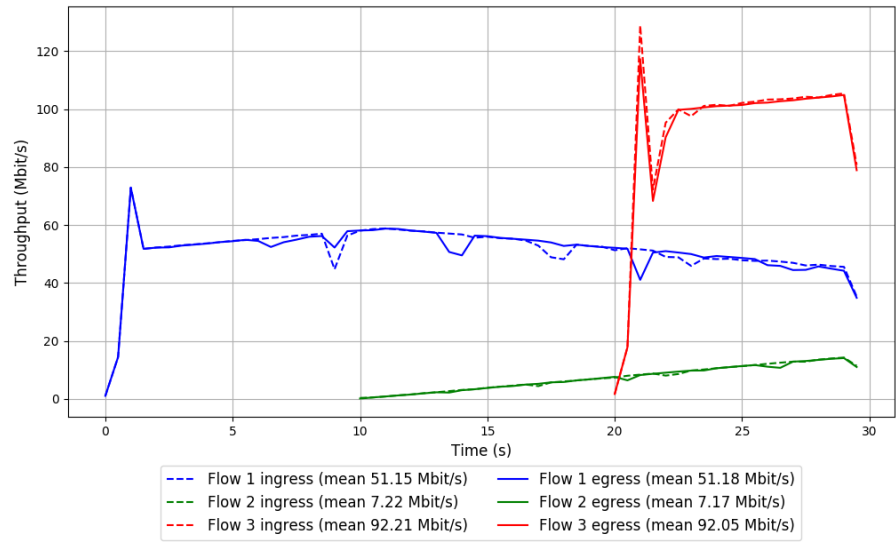
-- Flow 3:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 67.119 ms

Loss rate: 1.44%

Run 10: Report of TCP Vegas — Data Link

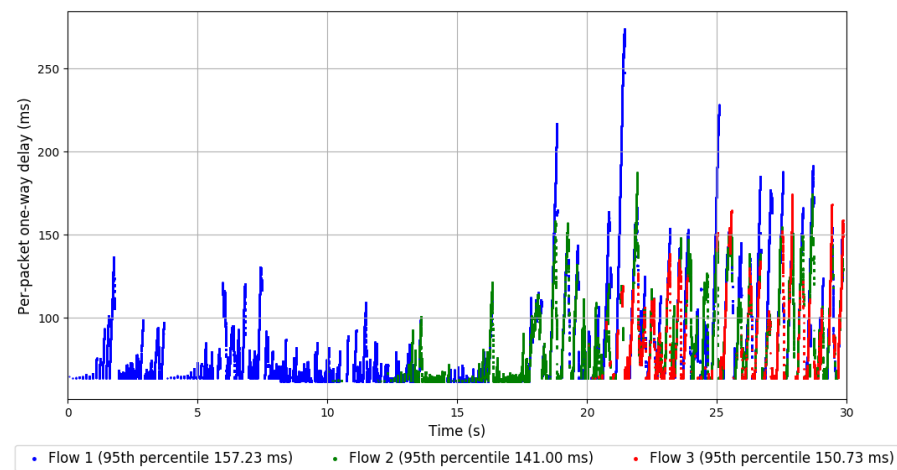
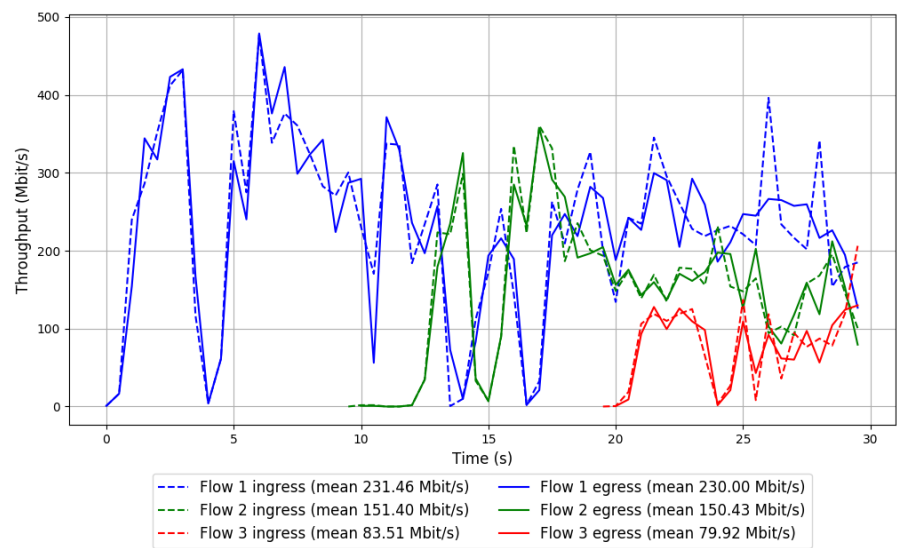


```
Run 1: Statistics of Verus

Start at: 2017-12-21 04:56:01
End at: 2017-12-21 04:56:31

# Below is generated by plot.py at 2017-12-21 10:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.20 Mbit/s
95th percentile per-packet one-way delay: 150.787 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 230.00 Mbit/s
95th percentile per-packet one-way delay: 157.234 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 150.43 Mbit/s
95th percentile per-packet one-way delay: 141.001 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 79.92 Mbit/s
95th percentile per-packet one-way delay: 150.732 ms
Loss rate: 5.51%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-21 05:10:37

End at: 2017-12-21 05:11:07

Below is generated by plot.py at 2017-12-21 10:27:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.50 Mbit/s

95th percentile per-packet one-way delay: 169.307 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 200.52 Mbit/s

95th percentile per-packet one-way delay: 174.552 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 135.19 Mbit/s

95th percentile per-packet one-way delay: 166.092 ms

Loss rate: 1.42%

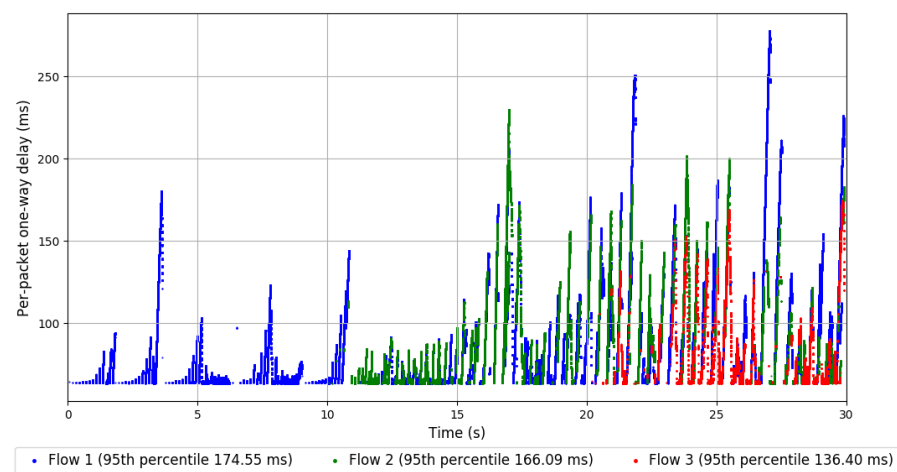
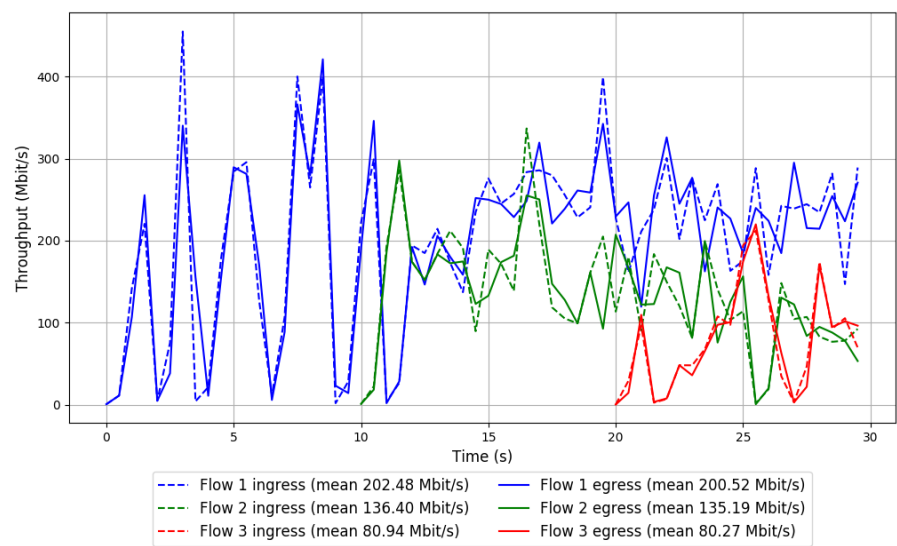
-- Flow 3:

Average throughput: 80.27 Mbit/s

95th percentile per-packet one-way delay: 136.397 ms

Loss rate: 0.26%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-21 05:24:40

End at: 2017-12-21 05:25:10

Below is generated by plot.py at 2017-12-21 10:27:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.54 Mbit/s

95th percentile per-packet one-way delay: 165.567 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 176.31 Mbit/s

95th percentile per-packet one-way delay: 127.908 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 219.93 Mbit/s

95th percentile per-packet one-way delay: 192.052 ms

Loss rate: 4.14%

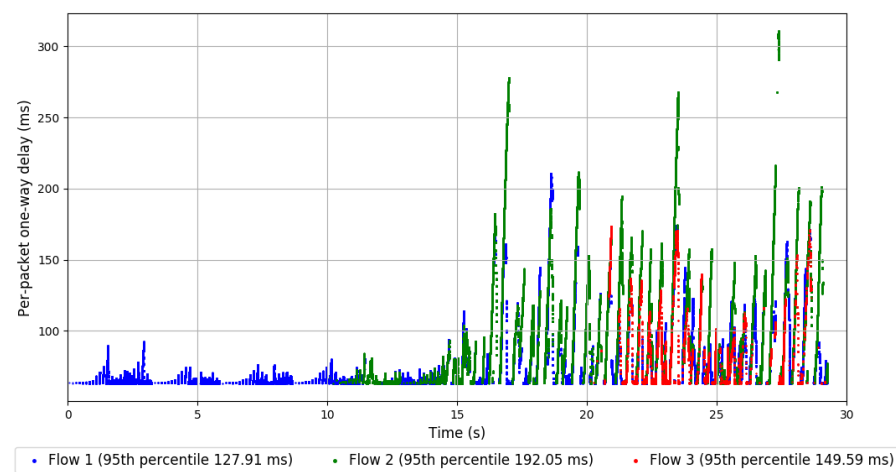
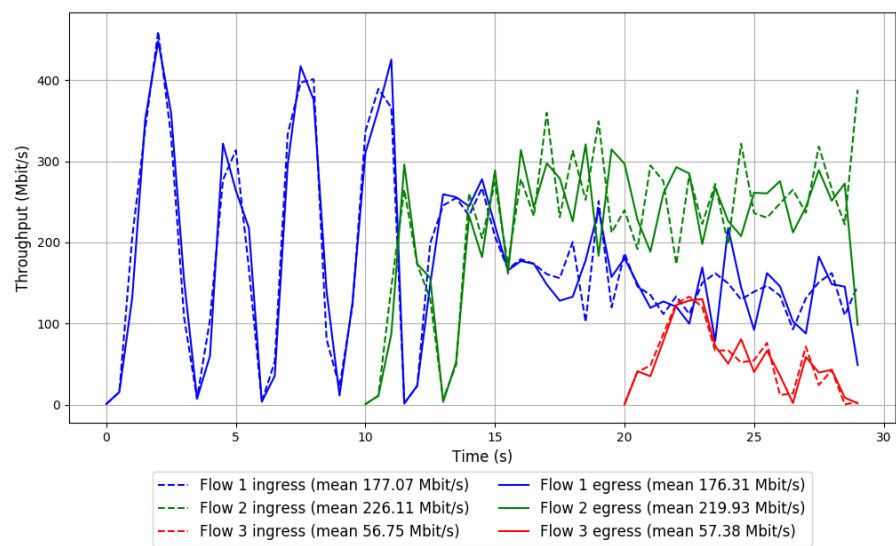
-- Flow 3:

Average throughput: 57.38 Mbit/s

95th percentile per-packet one-way delay: 149.589 ms

Loss rate: 0.28%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-21 05:39:03

End at: 2017-12-21 05:39:33

Below is generated by plot.py at 2017-12-21 10:27:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.04 Mbit/s

95th percentile per-packet one-way delay: 107.214 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 202.99 Mbit/s

95th percentile per-packet one-way delay: 97.558 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 172.59 Mbit/s

95th percentile per-packet one-way delay: 113.724 ms

Loss rate: 1.64%

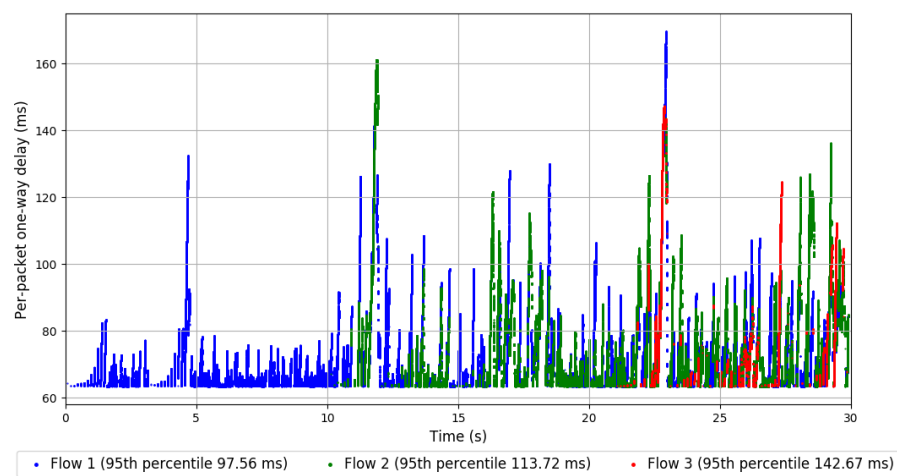
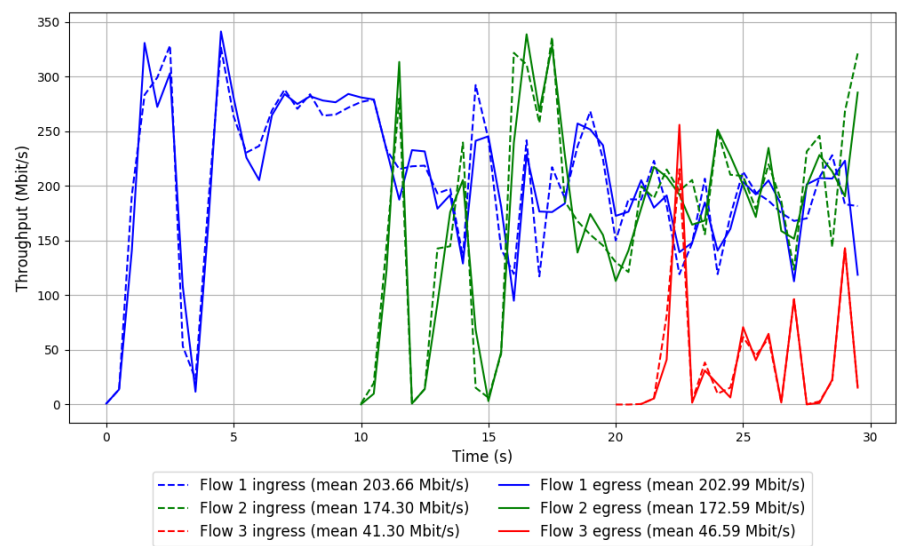
-- Flow 3:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 142.669 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-21 05:53:11

End at: 2017-12-21 05:53:41

Below is generated by plot.py at 2017-12-21 10:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.52 Mbit/s

95th percentile per-packet one-way delay: 213.497 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 248.54 Mbit/s

95th percentile per-packet one-way delay: 158.143 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 106.74 Mbit/s

95th percentile per-packet one-way delay: 175.894 ms

Loss rate: 1.88%

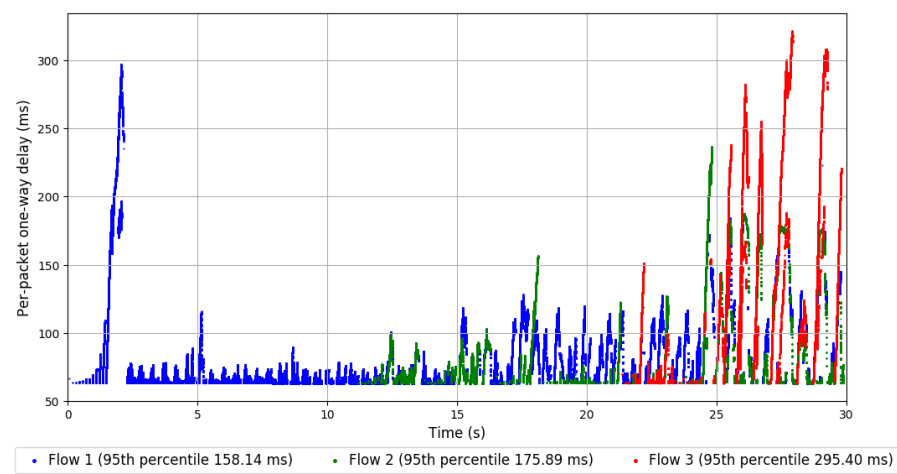
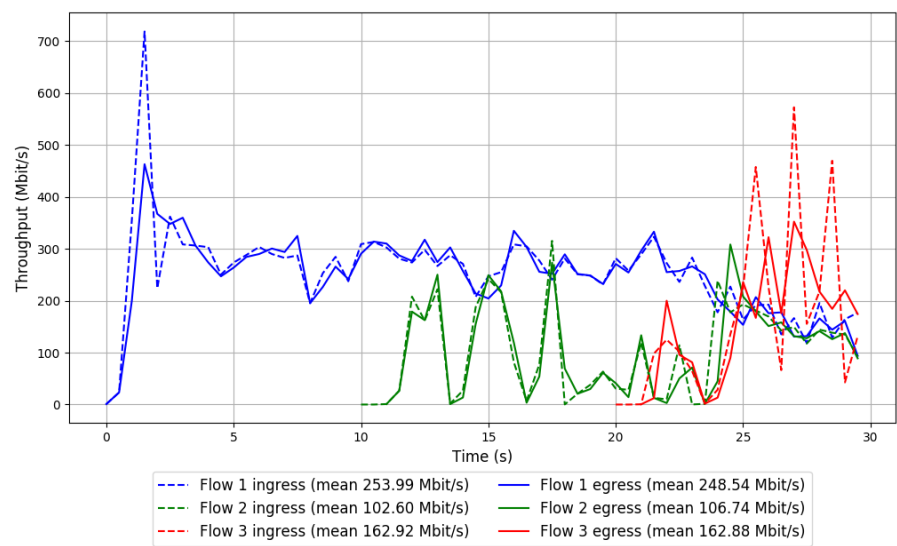
-- Flow 3:

Average throughput: 162.88 Mbit/s

95th percentile per-packet one-way delay: 295.403 ms

Loss rate: 8.88%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-21 06:07:34

End at: 2017-12-21 06:08:04

Below is generated by plot.py at 2017-12-21 10:29:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.09 Mbit/s

95th percentile per-packet one-way delay: 146.004 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 256.91 Mbit/s

95th percentile per-packet one-way delay: 148.276 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 102.58 Mbit/s

95th percentile per-packet one-way delay: 130.507 ms

Loss rate: 2.79%

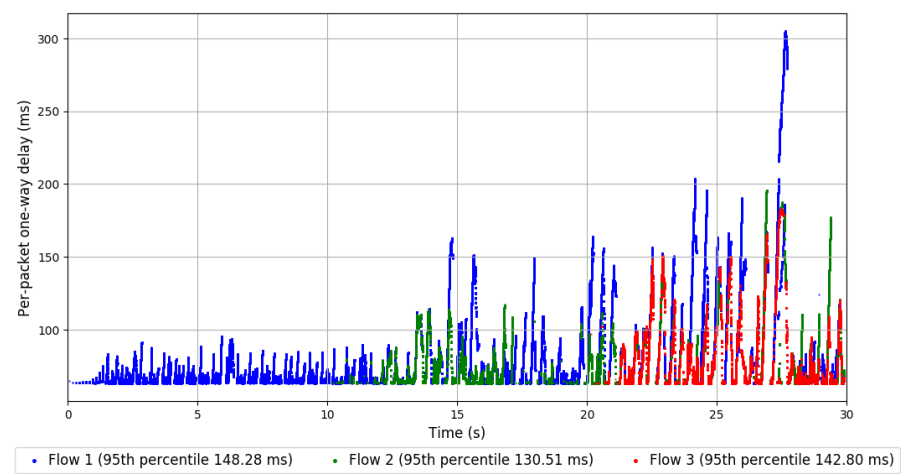
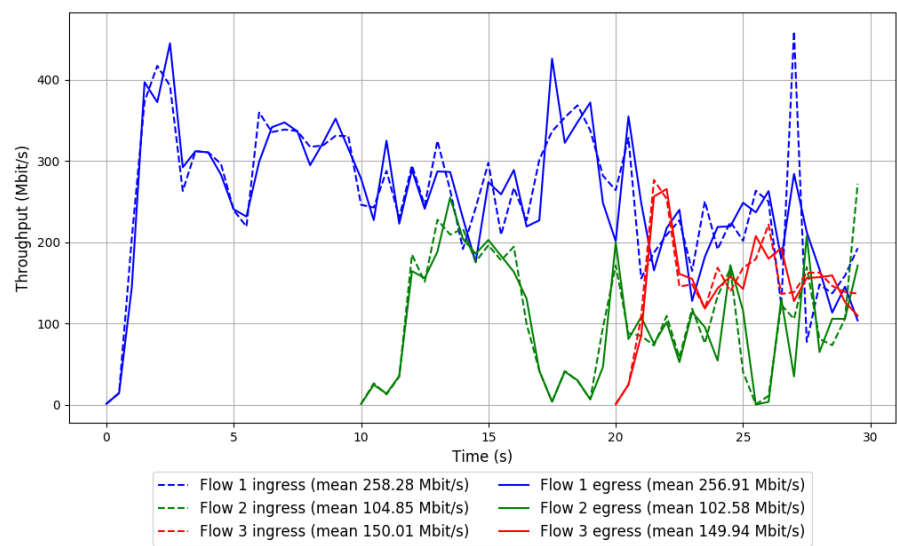
-- Flow 3:

Average throughput: 149.94 Mbit/s

95th percentile per-packet one-way delay: 142.801 ms

Loss rate: 1.67%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-21 06:21:31

End at: 2017-12-21 06:22:01

Below is generated by plot.py at 2017-12-21 10:30:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.90 Mbit/s

95th percentile per-packet one-way delay: 145.191 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 196.90 Mbit/s

95th percentile per-packet one-way delay: 134.046 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 195.96 Mbit/s

95th percentile per-packet one-way delay: 157.764 ms

Loss rate: 0.45%

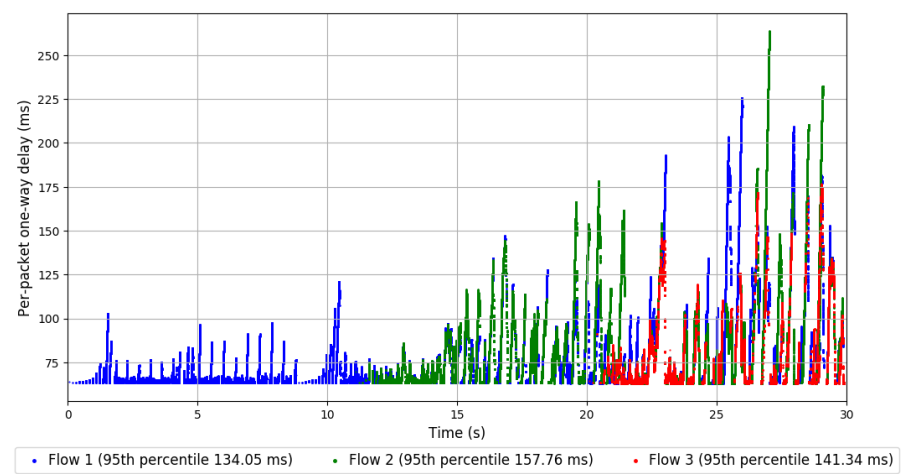
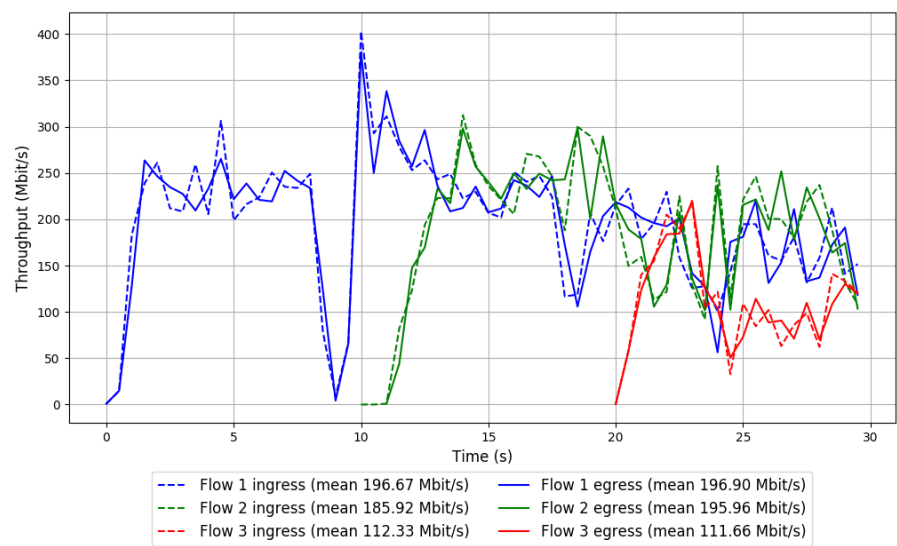
-- Flow 3:

Average throughput: 111.66 Mbit/s

95th percentile per-packet one-way delay: 141.341 ms

Loss rate: 1.90%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-21 06:35:52

End at: 2017-12-21 06:36:22

Below is generated by plot.py at 2017-12-21 10:31:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.77 Mbit/s

95th percentile per-packet one-way delay: 157.075 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 258.90 Mbit/s

95th percentile per-packet one-way delay: 154.983 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 69.18 Mbit/s

95th percentile per-packet one-way delay: 165.439 ms

Loss rate: 0.06%

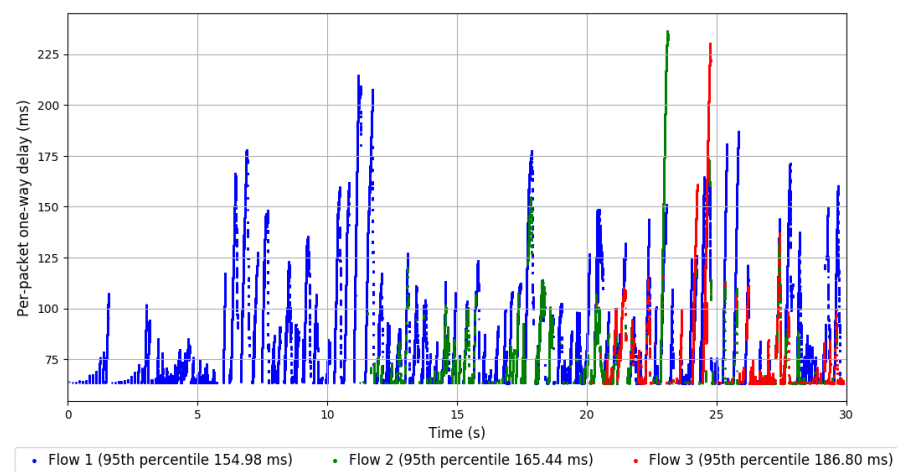
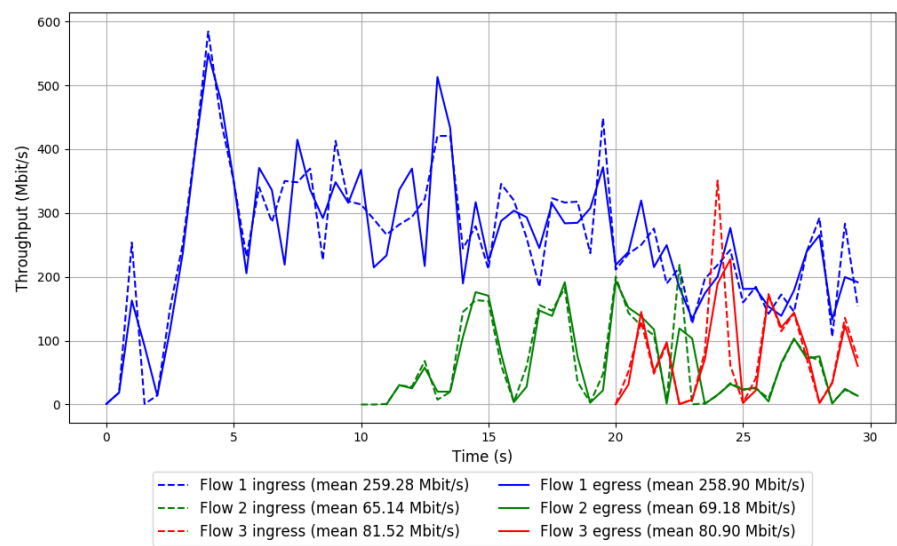
-- Flow 3:

Average throughput: 80.90 Mbit/s

95th percentile per-packet one-way delay: 186.802 ms

Loss rate: 2.03%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-21 06:50:05

End at: 2017-12-21 06:50:35

Below is generated by plot.py at 2017-12-21 10:31:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.58 Mbit/s

95th percentile per-packet one-way delay: 212.914 ms

Loss rate: 2.89%

-- Flow 1:

Average throughput: 61.67 Mbit/s

95th percentile per-packet one-way delay: 247.885 ms

Loss rate: 6.44%

-- Flow 2:

Average throughput: 134.11 Mbit/s

95th percentile per-packet one-way delay: 180.662 ms

Loss rate: 1.20%

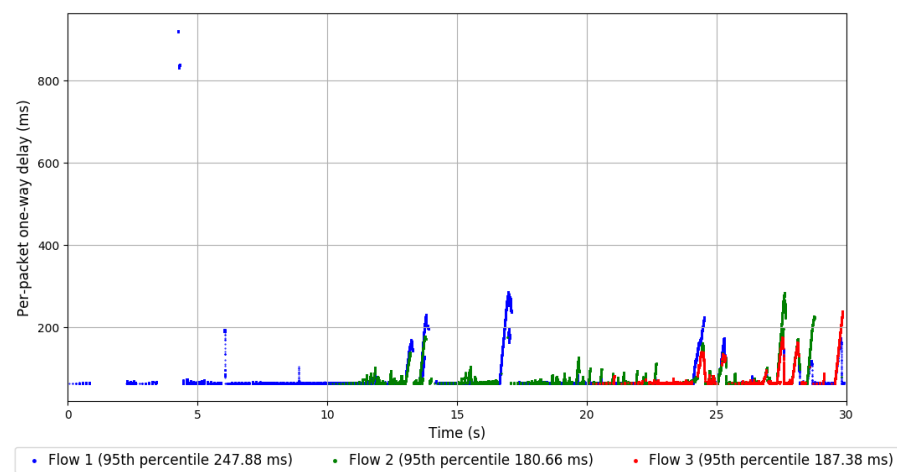
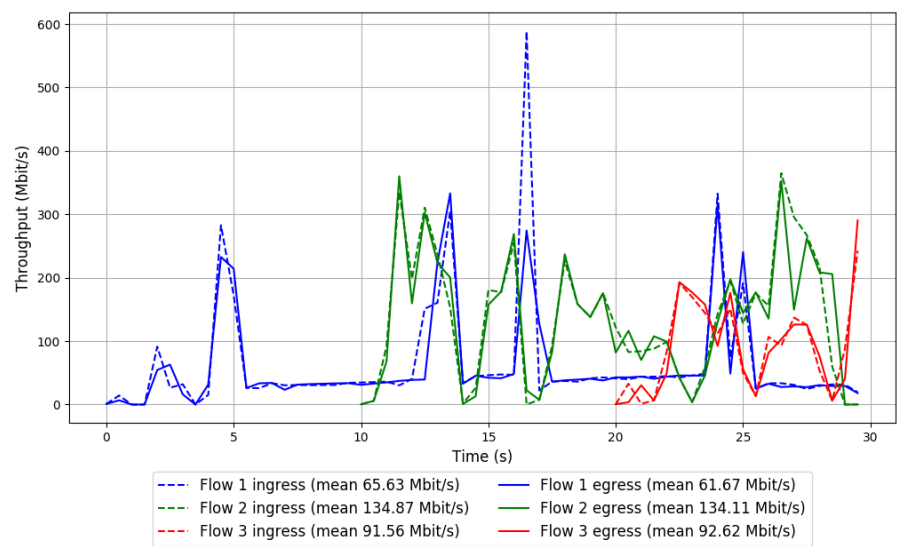
-- Flow 3:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 187.385 ms

Loss rate: 0.16%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-21 07:03:49

End at: 2017-12-21 07:04:19

Below is generated by plot.py at 2017-12-21 10:31:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.33 Mbit/s

95th percentile per-packet one-way delay: 163.253 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 154.21 Mbit/s

95th percentile per-packet one-way delay: 104.629 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 318.642 ms

Loss rate: 6.58%

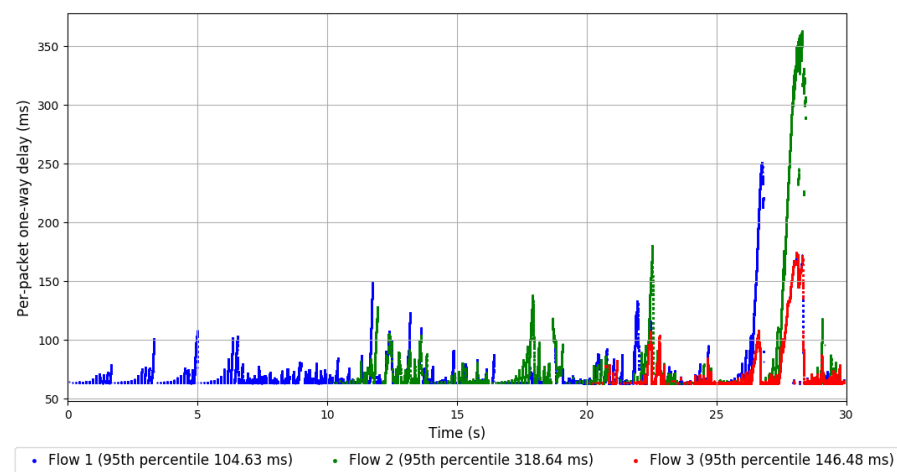
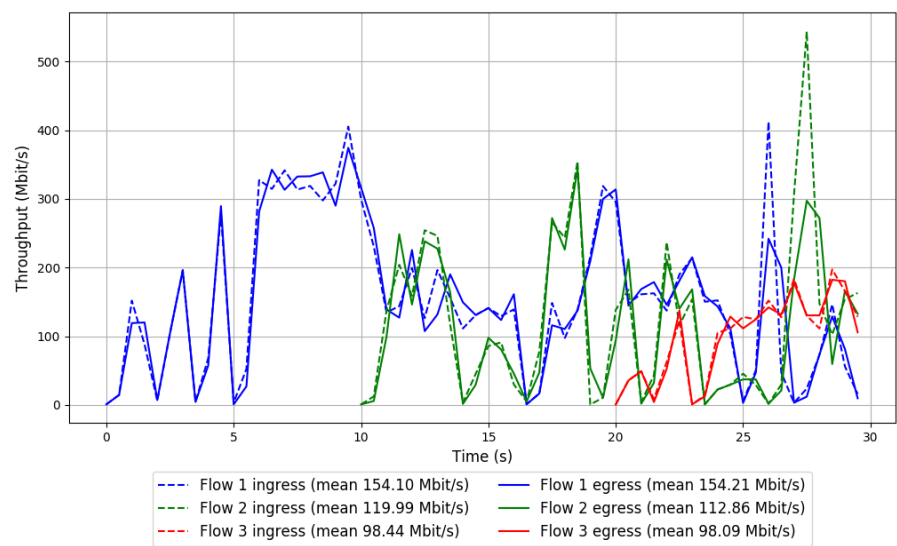
-- Flow 3:

Average throughput: 98.09 Mbit/s

95th percentile per-packet one-way delay: 146.484 ms

Loss rate: 1.64%

Run 10: Report of Verus — Data Link

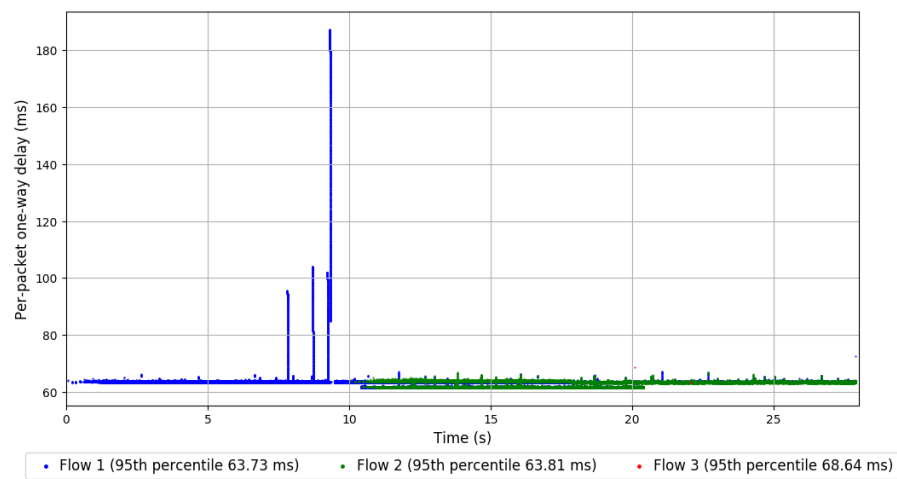
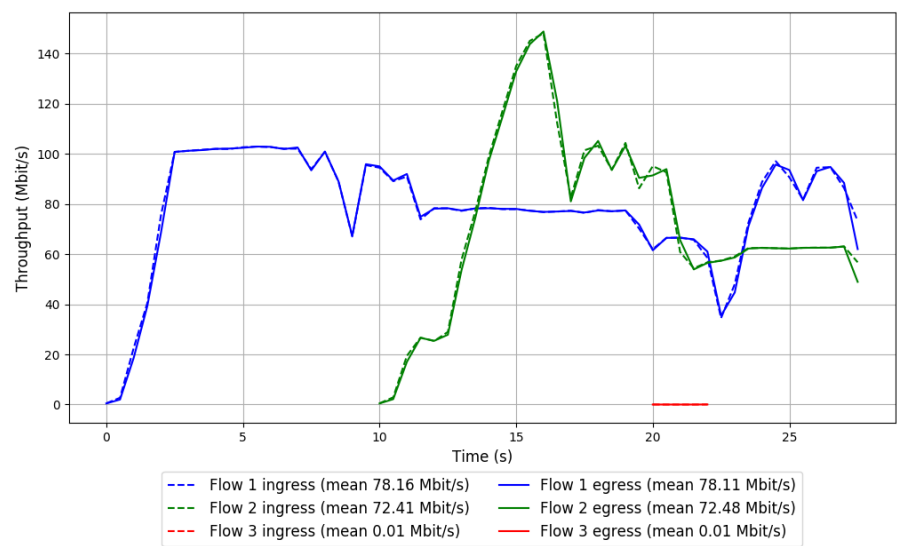


```
Run 1: Statistics of Copa

Start at: 2017-12-21 04:58:57
End at: 2017-12-21 04:59:27

# Below is generated by plot.py at 2017-12-21 10:31:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.51 Mbit/s
95th percentile per-packet one-way delay: 63.761 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 78.11 Mbit/s
95th percentile per-packet one-way delay: 63.728 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 72.48 Mbit/s
95th percentile per-packet one-way delay: 63.814 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 68.635 ms
Loss rate: 46.17%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-21 05:13:14

End at: 2017-12-21 05:13:44

Below is generated by plot.py at 2017-12-21 10:31:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.76 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 69.57 Mbit/s

95th percentile per-packet one-way delay: 63.469 ms

Loss rate: 1.06%

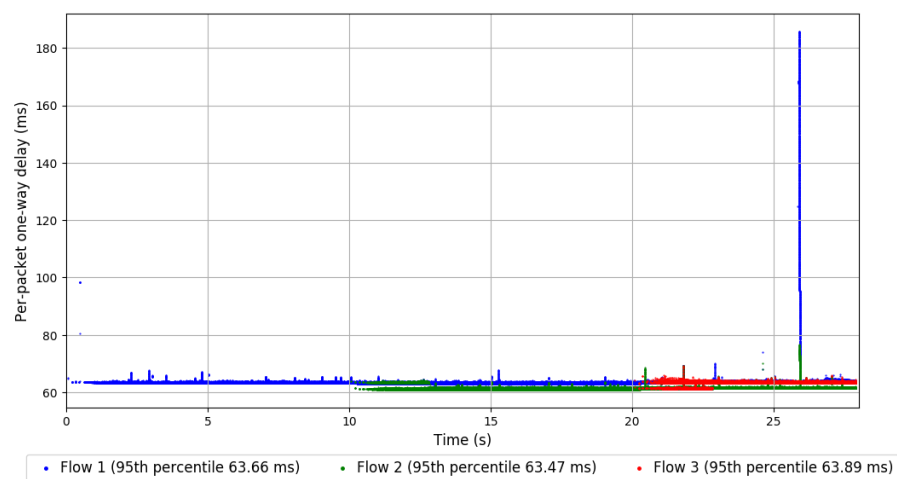
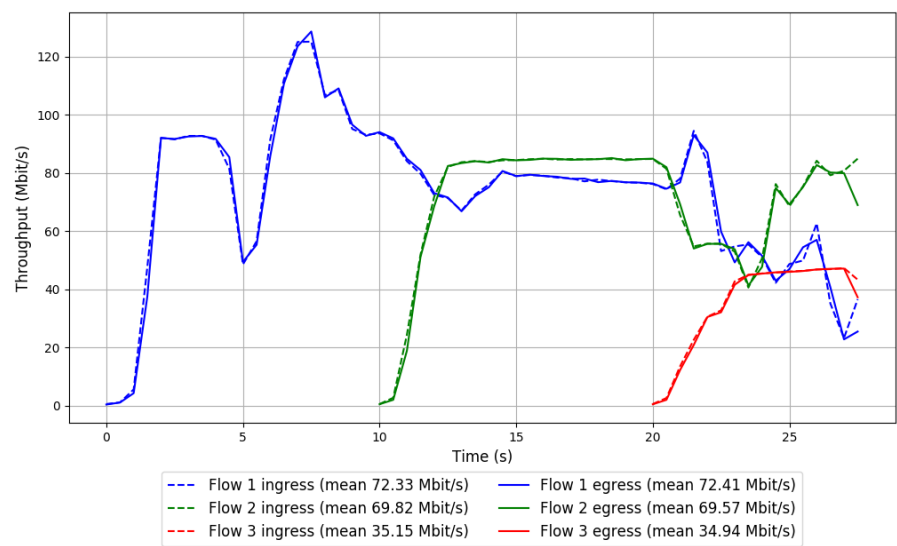
-- Flow 3:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 63.887 ms

Loss rate: 2.16%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-21 05:27:28

End at: 2017-12-21 05:27:58

Below is generated by plot.py at 2017-12-21 10:32:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.47 Mbit/s

95th percentile per-packet one-way delay: 63.697 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 64.49 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.15%

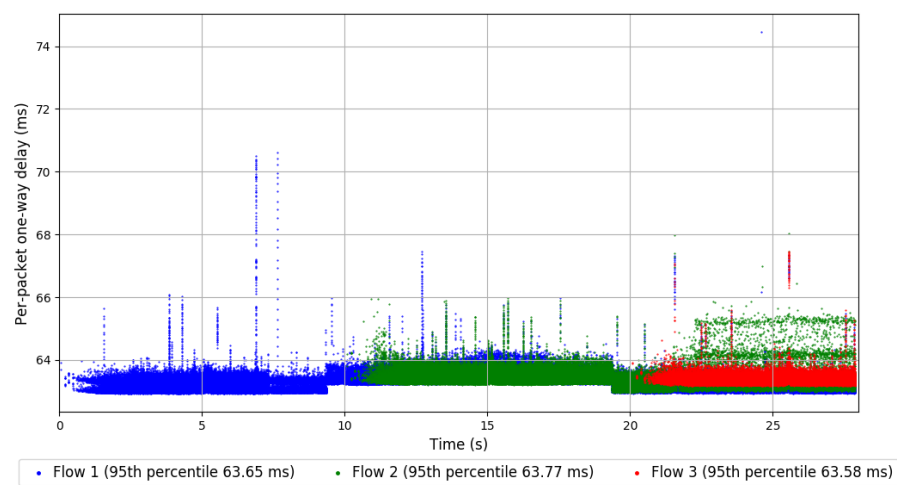
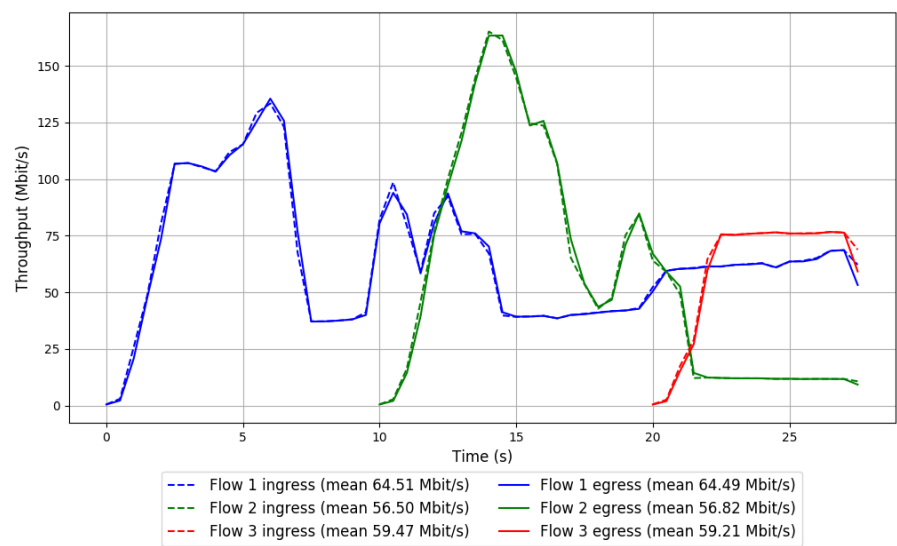
-- Flow 3:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 63.578 ms

Loss rate: 2.06%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-21 05:41:50

End at: 2017-12-21 05:42:20

Below is generated by plot.py at 2017-12-21 10:33:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.13 Mbit/s

95th percentile per-packet one-way delay: 63.539 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 68.97 Mbit/s

95th percentile per-packet one-way delay: 63.526 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 62.83 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.67%

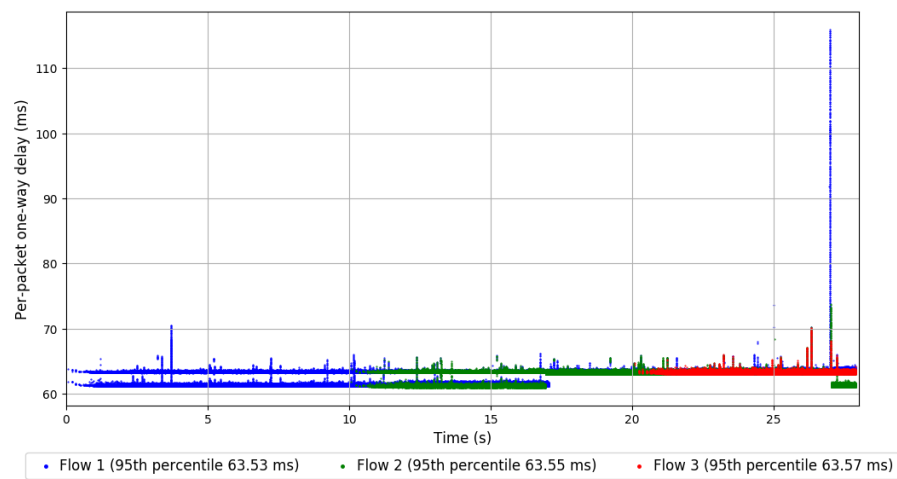
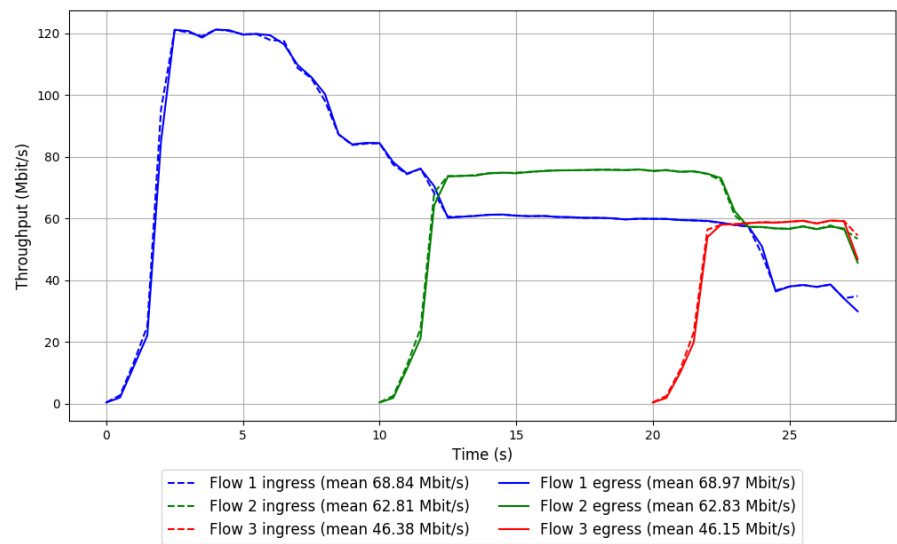
-- Flow 3:

Average throughput: 46.15 Mbit/s

95th percentile per-packet one-way delay: 63.572 ms

Loss rate: 2.09%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-21 05:56:02

End at: 2017-12-21 05:56:32

Below is generated by plot.py at 2017-12-21 10:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.12 Mbit/s

95th percentile per-packet one-way delay: 63.621 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 72.91 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 0.77%

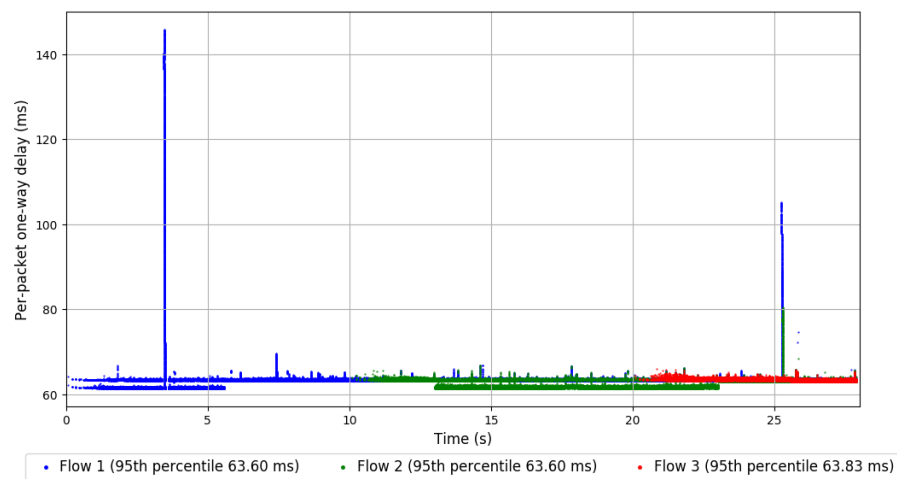
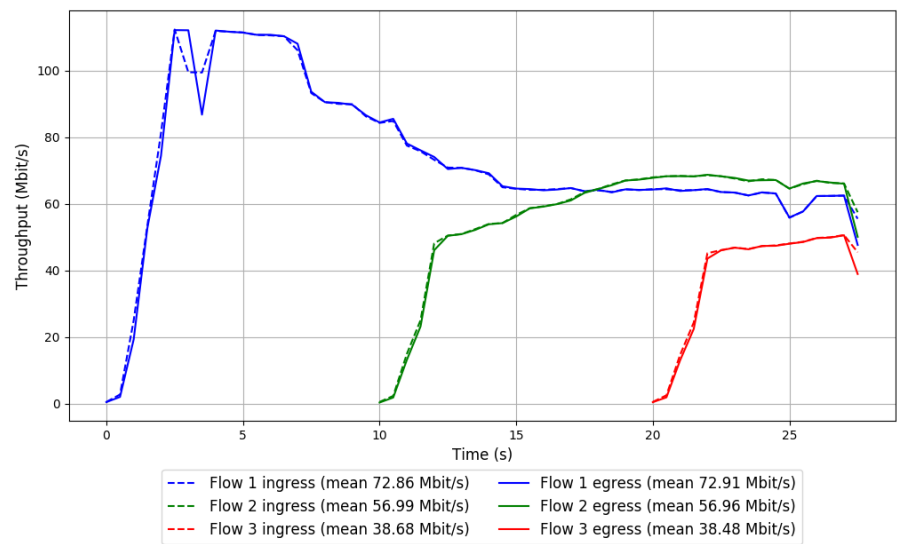
-- Flow 3:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 63.825 ms

Loss rate: 2.12%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-21 06:10:15

End at: 2017-12-21 06:10:45

Below is generated by plot.py at 2017-12-21 10:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.29 Mbit/s

95th percentile per-packet one-way delay: 63.749 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 63.756 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 67.92 Mbit/s

95th percentile per-packet one-way delay: 63.749 ms

Loss rate: 0.58%

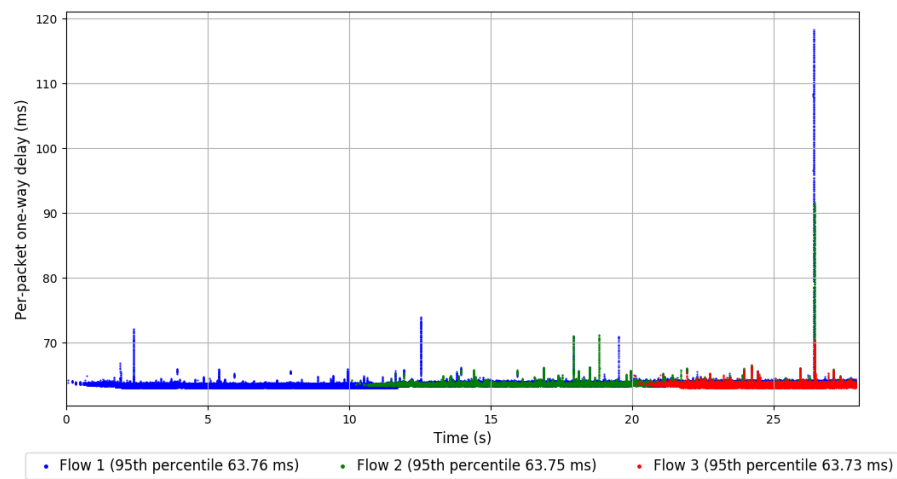
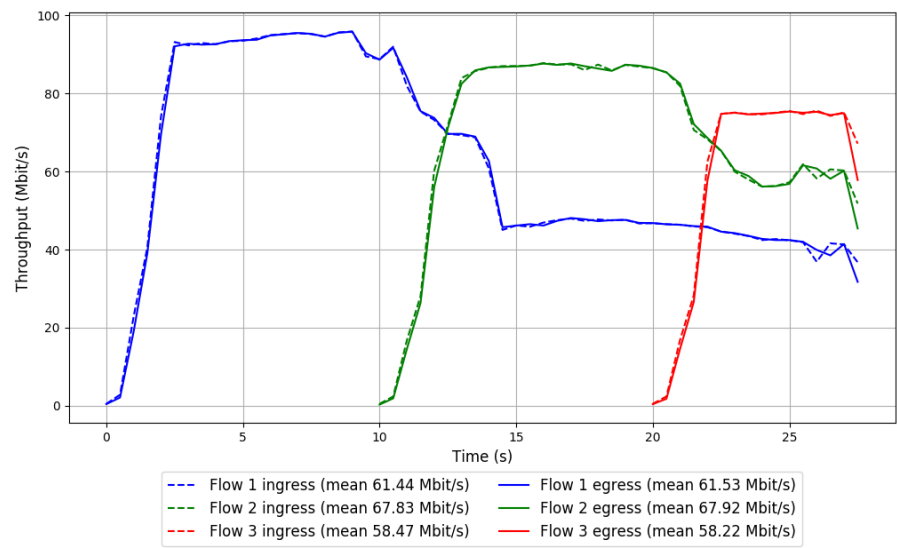
-- Flow 3:

Average throughput: 58.22 Mbit/s

95th percentile per-packet one-way delay: 63.729 ms

Loss rate: 2.04%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-21 06:24:20

End at: 2017-12-21 06:24:50

Below is generated by plot.py at 2017-12-21 10:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.86 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.74%

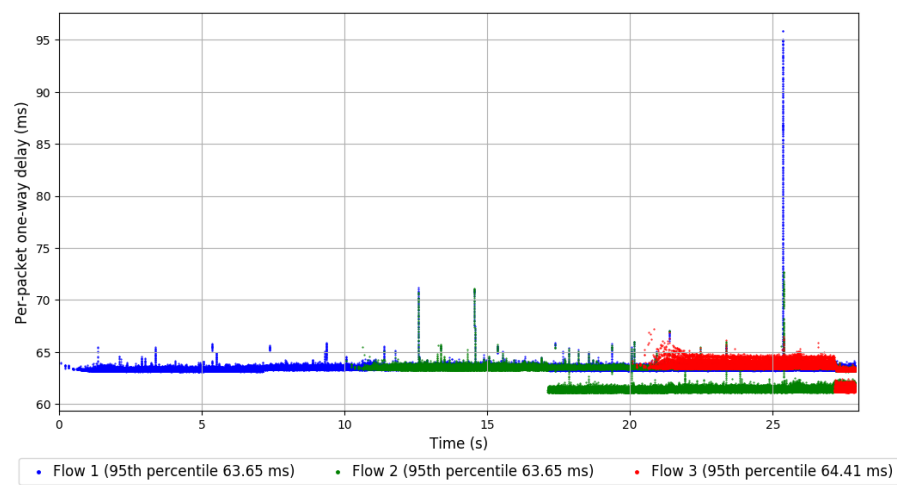
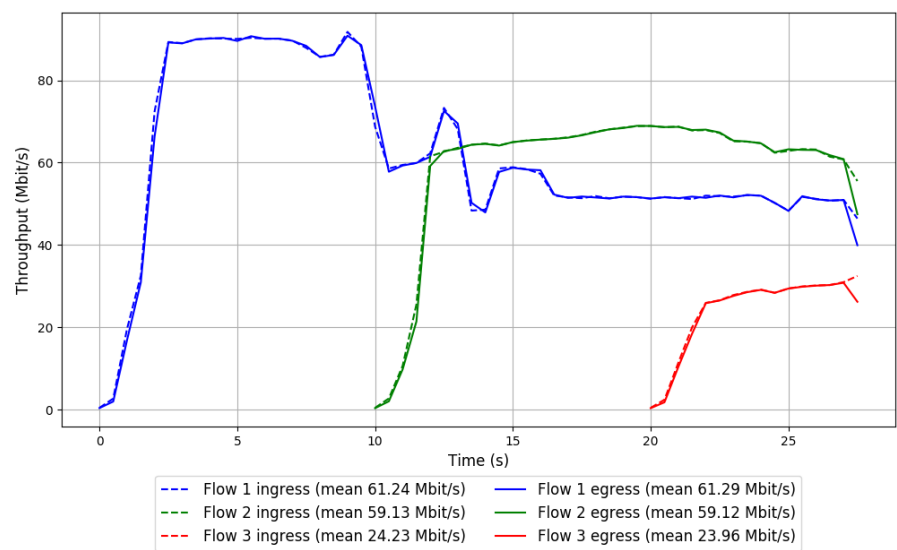
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 64.408 ms

Loss rate: 2.68%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-21 06:38:39

End at: 2017-12-21 06:39:09

Below is generated by plot.py at 2017-12-21 10:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.28 Mbit/s

95th percentile per-packet one-way delay: 63.935 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 70.96 Mbit/s

95th percentile per-packet one-way delay: 64.006 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 67.47 Mbit/s

95th percentile per-packet one-way delay: 63.733 ms

Loss rate: 0.54%

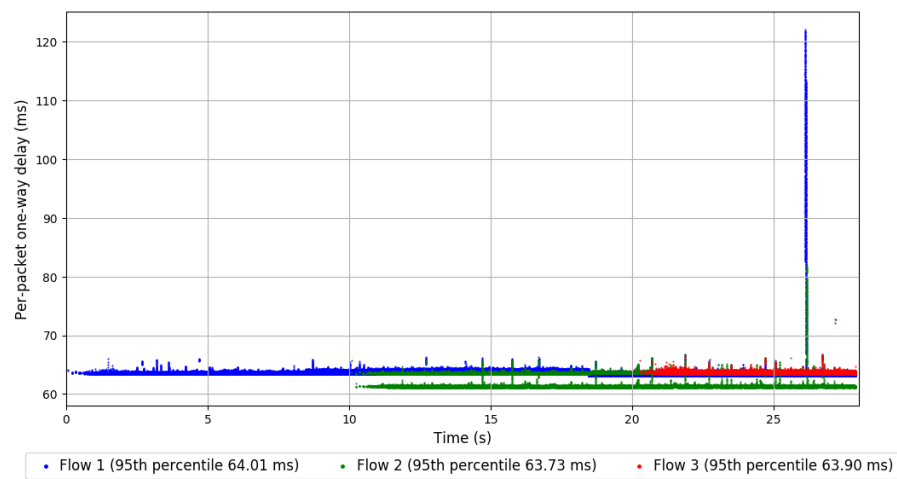
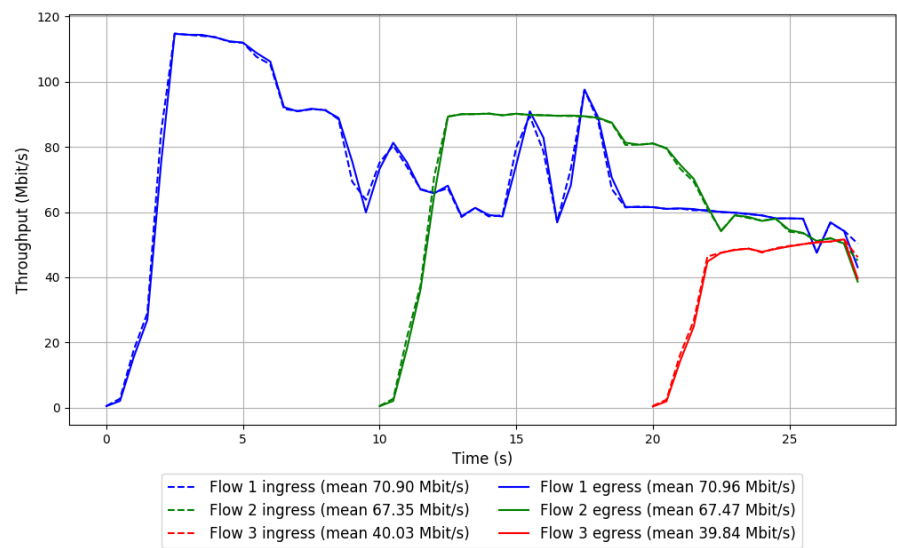
-- Flow 3:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 63.904 ms

Loss rate: 2.07%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-21 06:52:33

End at: 2017-12-21 06:53:03

Below is generated by plot.py at 2017-12-21 10:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.32 Mbit/s

95th percentile per-packet one-way delay: 63.786 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 65.15 Mbit/s

95th percentile per-packet one-way delay: 63.778 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 68.32 Mbit/s

95th percentile per-packet one-way delay: 63.674 ms

Loss rate: 0.86%

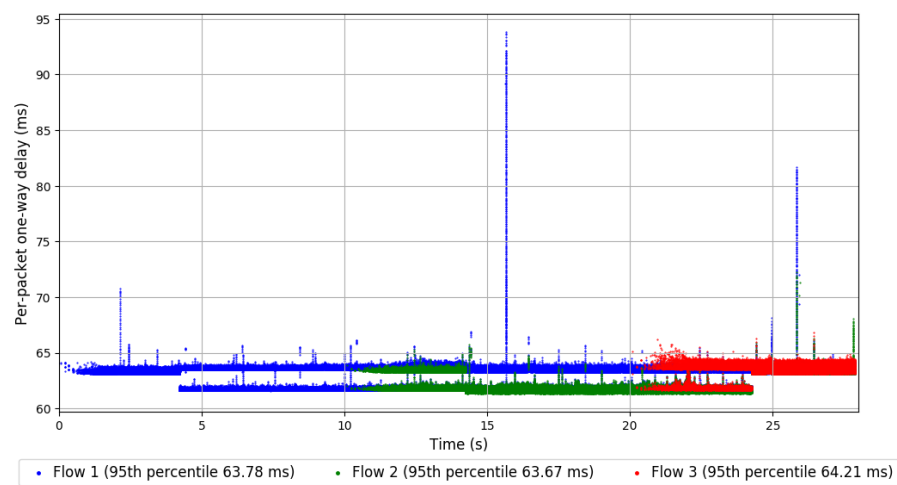
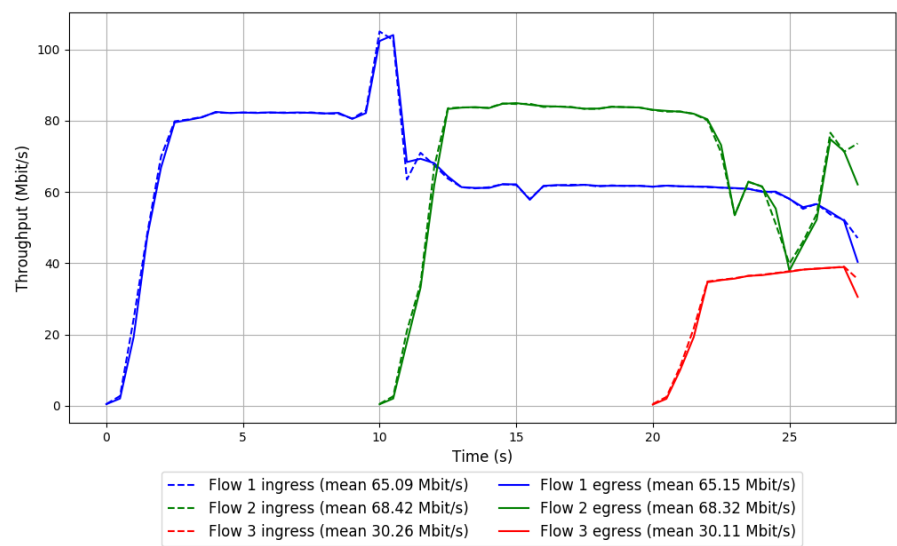
-- Flow 3:

Average throughput: 30.11 Mbit/s

95th percentile per-packet one-way delay: 64.207 ms

Loss rate: 2.09%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-21 07:06:32

End at: 2017-12-21 07:07:02

Below is generated by plot.py at 2017-12-21 10:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.18 Mbit/s

95th percentile per-packet one-way delay: 63.893 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 63.682 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 63.986 ms

Loss rate: 0.74%

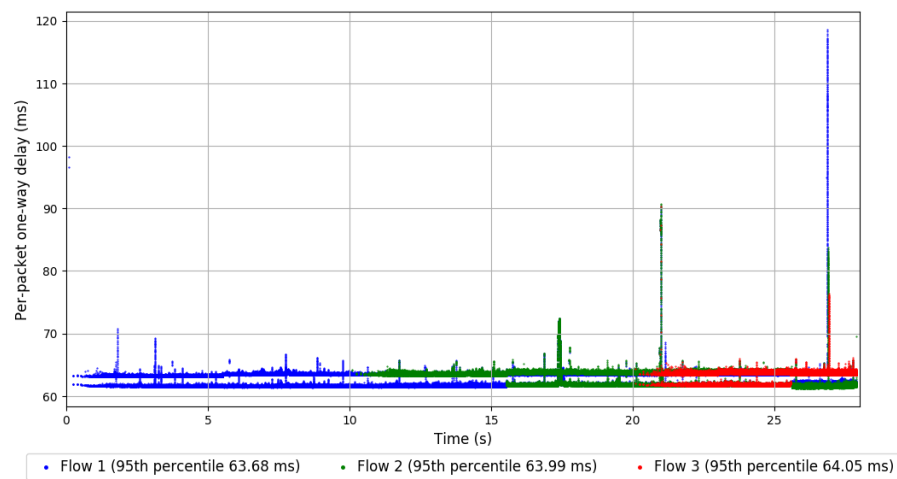
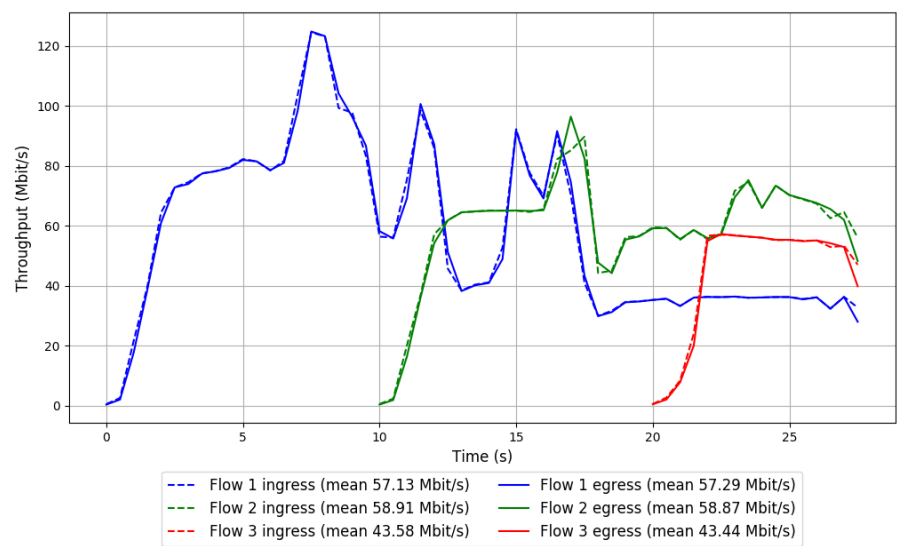
-- Flow 3:

Average throughput: 43.44 Mbit/s

95th percentile per-packet one-way delay: 64.051 ms

Loss rate: 1.92%

Run 10: Report of Copa — Data Link

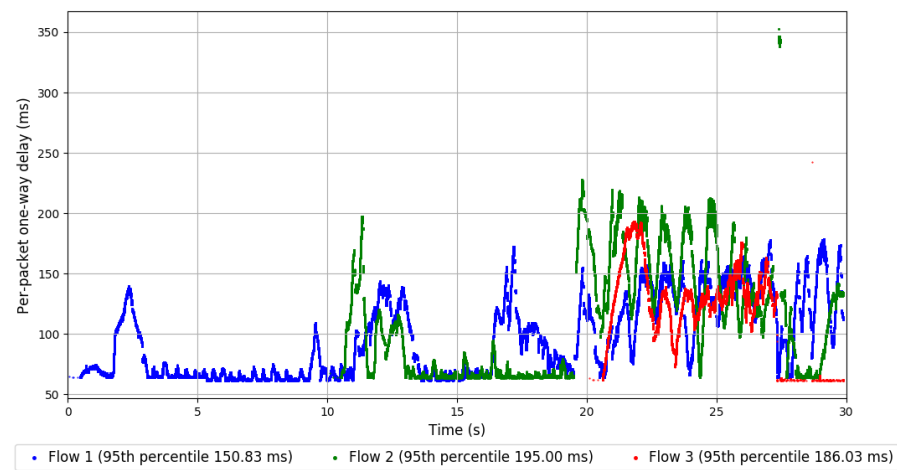
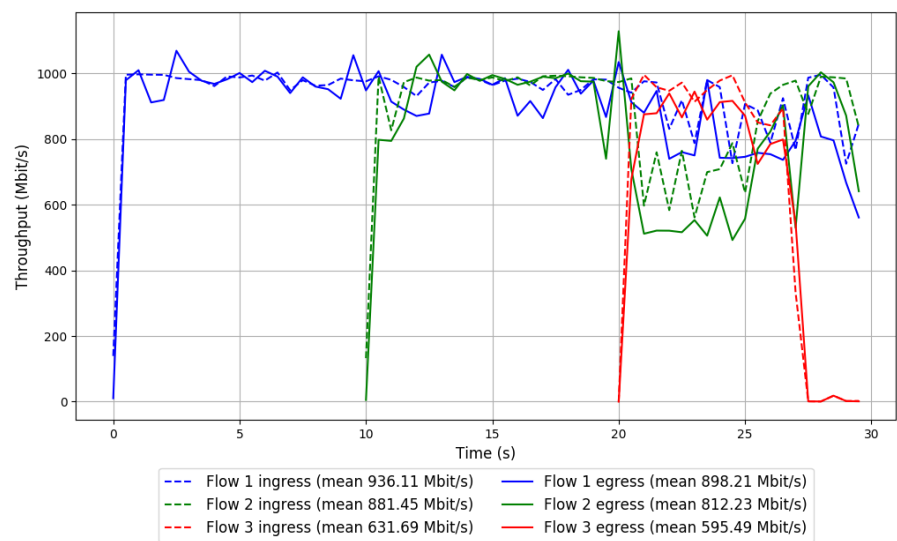


```
Run 1: Statistics of FillP

Start at: 2017-12-21 04:59:51
End at: 2017-12-21 05:00:21

# Below is generated by plot.py at 2017-12-21 11:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1632.25 Mbit/s
95th percentile per-packet one-way delay: 174.165 ms
Loss rate: 6.12%
-- Flow 1:
Average throughput: 898.21 Mbit/s
95th percentile per-packet one-way delay: 150.833 ms
Loss rate: 4.47%
-- Flow 2:
Average throughput: 812.23 Mbit/s
95th percentile per-packet one-way delay: 195.000 ms
Loss rate: 8.47%
-- Flow 3:
Average throughput: 595.49 Mbit/s
95th percentile per-packet one-way delay: 186.027 ms
Loss rate: 6.97%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2017-12-21 05:14:08

End at: 2017-12-21 05:14:38

Below is generated by plot.py at 2017-12-21 11:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1594.64 Mbit/s

95th percentile per-packet one-way delay: 171.338 ms

Loss rate: 8.46%

-- Flow 1:

Average throughput: 847.31 Mbit/s

95th percentile per-packet one-way delay: 155.160 ms

Loss rate: 8.11%

-- Flow 2:

Average throughput: 767.08 Mbit/s

95th percentile per-packet one-way delay: 154.716 ms

Loss rate: 5.87%

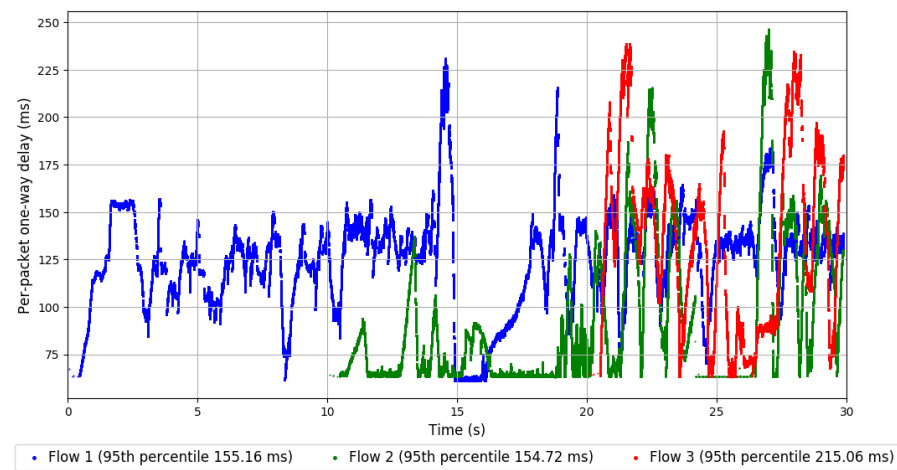
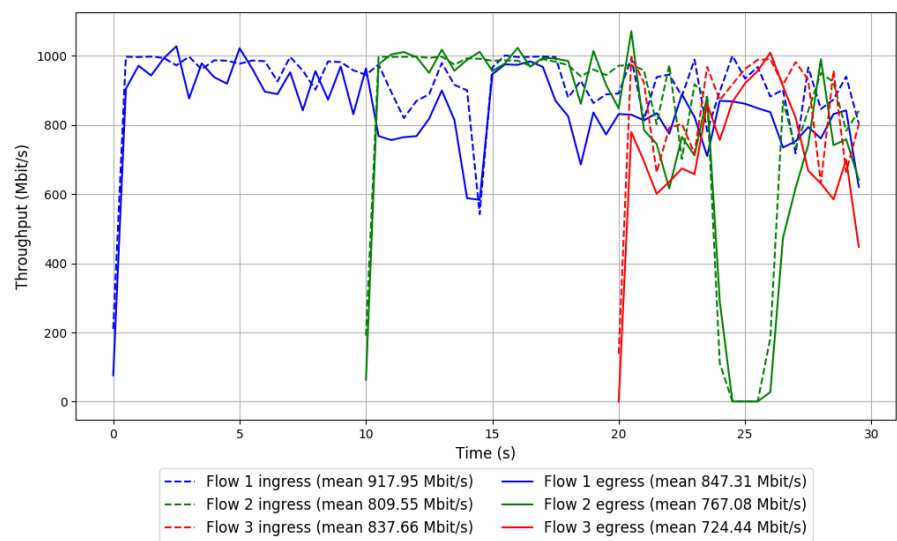
-- Flow 3:

Average throughput: 724.44 Mbit/s

95th percentile per-packet one-way delay: 215.065 ms

Loss rate: 14.67%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2017-12-21 05:28:21

End at: 2017-12-21 05:28:51

Below is generated by plot.py at 2017-12-21 11:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1540.42 Mbit/s

95th percentile per-packet one-way delay: 179.148 ms

Loss rate: 6.83%

-- Flow 1:

Average throughput: 799.77 Mbit/s

95th percentile per-packet one-way delay: 180.055 ms

Loss rate: 8.16%

-- Flow 2:

Average throughput: 714.68 Mbit/s

95th percentile per-packet one-way delay: 175.980 ms

Loss rate: 4.65%

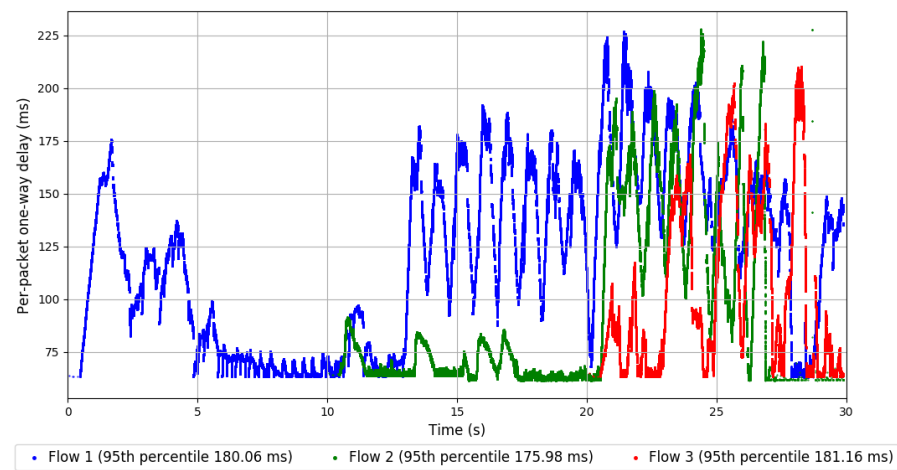
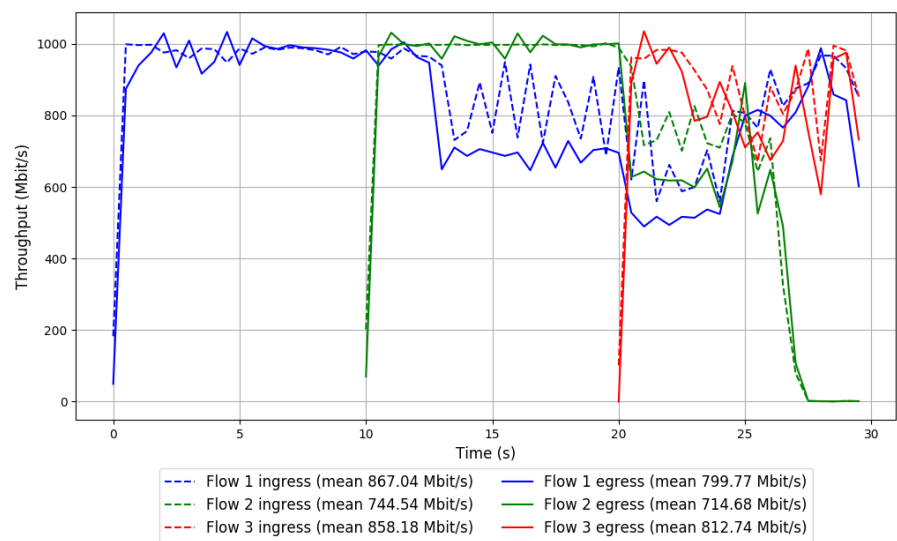
-- Flow 3:

Average throughput: 812.74 Mbit/s

95th percentile per-packet one-way delay: 181.159 ms

Loss rate: 6.55%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2017-12-21 05:42:44

End at: 2017-12-21 05:43:14

Below is generated by plot.py at 2017-12-21 11:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1308.25 Mbit/s

95th percentile per-packet one-way delay: 275.166 ms

Loss rate: 5.61%

-- Flow 1:

Average throughput: 508.08 Mbit/s

95th percentile per-packet one-way delay: 259.036 ms

Loss rate: 4.03%

-- Flow 2:

Average throughput: 859.03 Mbit/s

95th percentile per-packet one-way delay: 258.632 ms

Loss rate: 3.32%

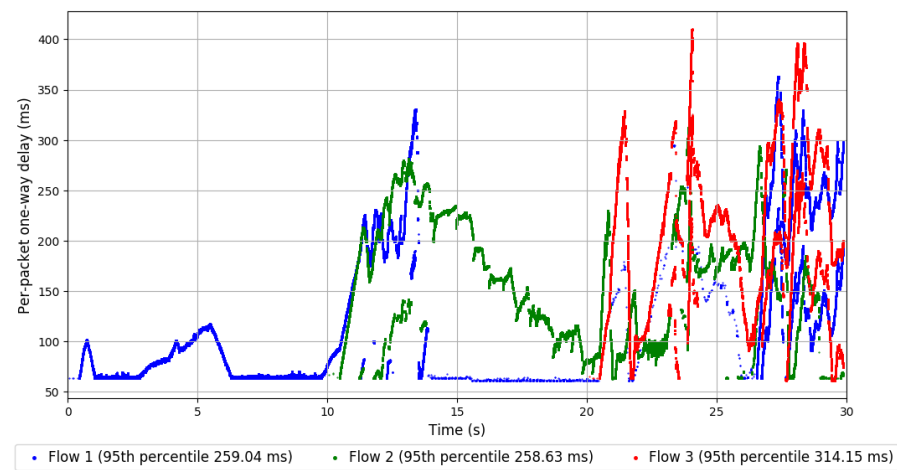
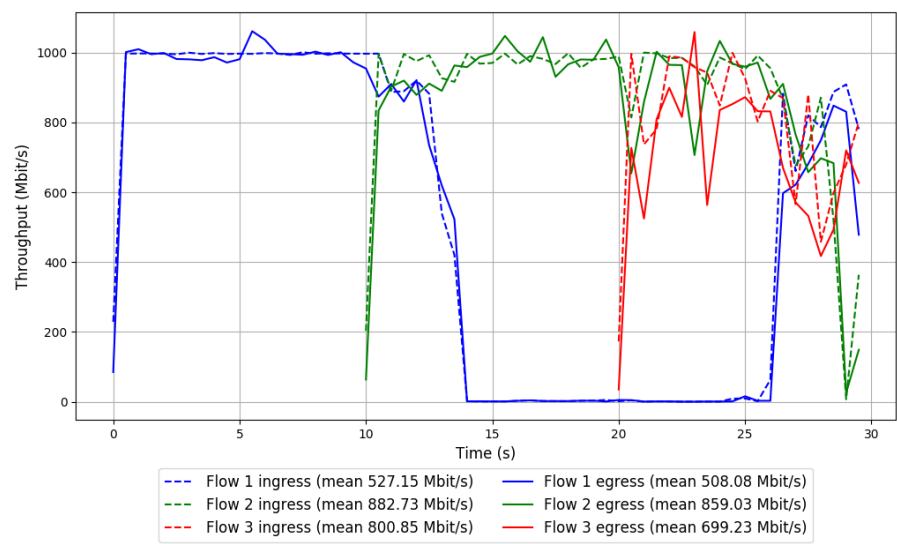
-- Flow 3:

Average throughput: 699.23 Mbit/s

95th percentile per-packet one-way delay: 314.153 ms

Loss rate: 13.82%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2017-12-21 05:56:55

End at: 2017-12-21 05:57:25

Below is generated by plot.py at 2017-12-21 11:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1482.74 Mbit/s

95th percentile per-packet one-way delay: 183.250 ms

Loss rate: 6.47%

-- Flow 1:

Average throughput: 837.59 Mbit/s

95th percentile per-packet one-way delay: 184.866 ms

Loss rate: 6.31%

-- Flow 2:

Average throughput: 649.38 Mbit/s

95th percentile per-packet one-way delay: 170.030 ms

Loss rate: 3.83%

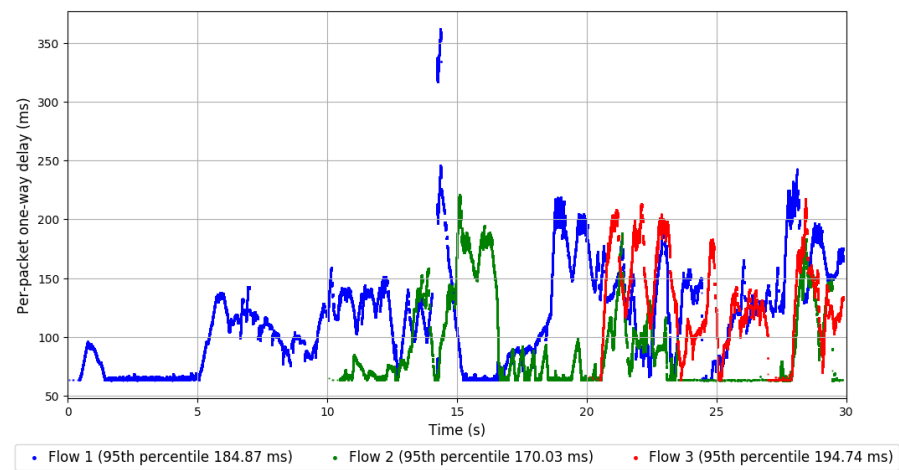
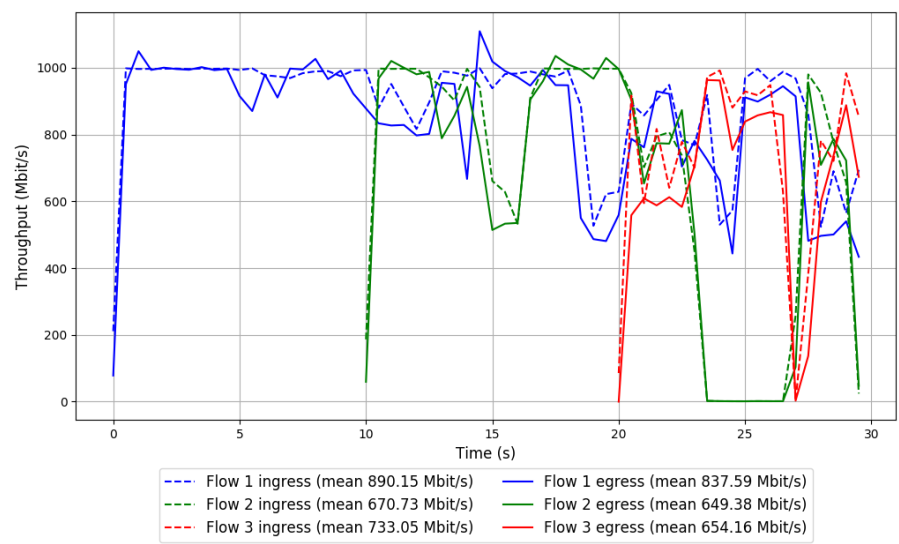
-- Flow 3:

Average throughput: 654.16 Mbit/s

95th percentile per-packet one-way delay: 194.738 ms

Loss rate: 11.94%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2017-12-21 06:11:09

End at: 2017-12-21 06:11:39

Below is generated by plot.py at 2017-12-21 11:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1350.81 Mbit/s

95th percentile per-packet one-way delay: 163.702 ms

Loss rate: 5.18%

-- Flow 1:

Average throughput: 552.13 Mbit/s

95th percentile per-packet one-way delay: 135.201 ms

Loss rate: 2.88%

-- Flow 2:

Average throughput: 829.90 Mbit/s

95th percentile per-packet one-way delay: 156.286 ms

Loss rate: 5.49%

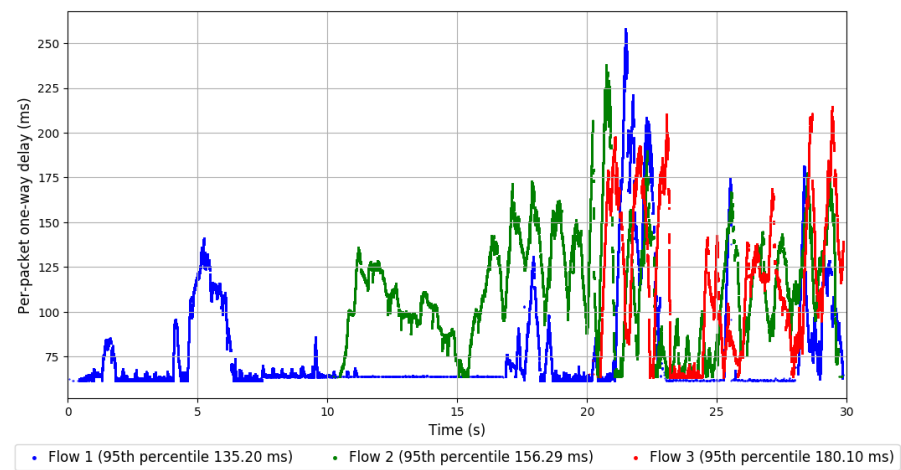
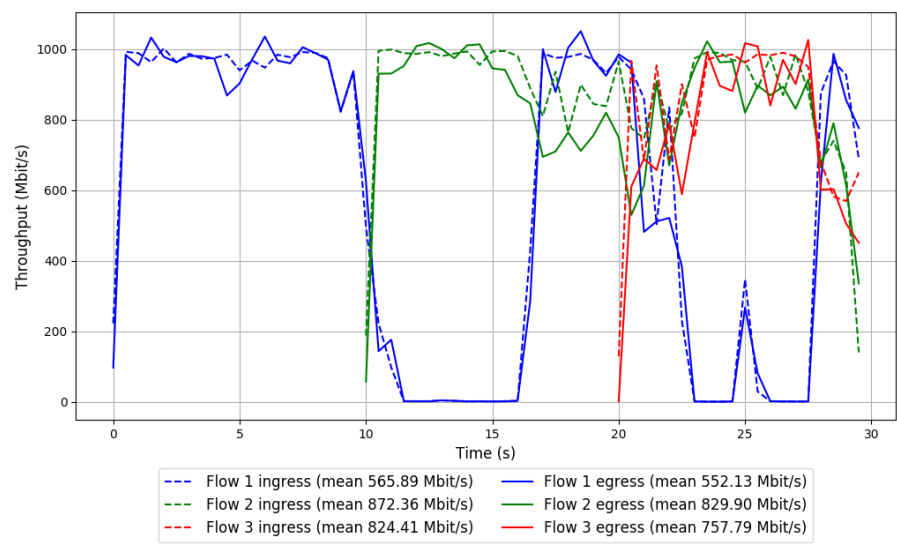
-- Flow 3:

Average throughput: 757.79 Mbit/s

95th percentile per-packet one-way delay: 180.096 ms

Loss rate: 9.29%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2017-12-21 06:25:12

End at: 2017-12-21 06:25:43

Below is generated by plot.py at 2017-12-21 11:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1491.01 Mbit/s

95th percentile per-packet one-way delay: 222.643 ms

Loss rate: 8.19%

-- Flow 1:

Average throughput: 825.32 Mbit/s

95th percentile per-packet one-way delay: 244.878 ms

Loss rate: 8.05%

-- Flow 2:

Average throughput: 669.57 Mbit/s

95th percentile per-packet one-way delay: 157.719 ms

Loss rate: 5.16%

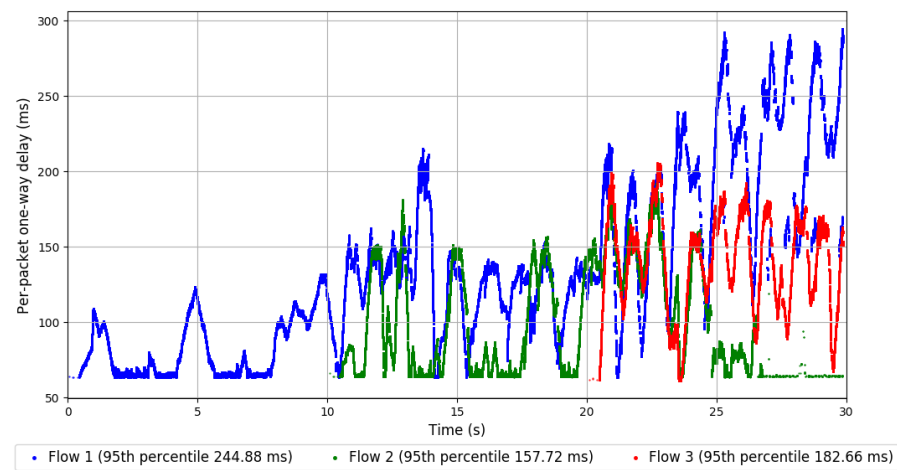
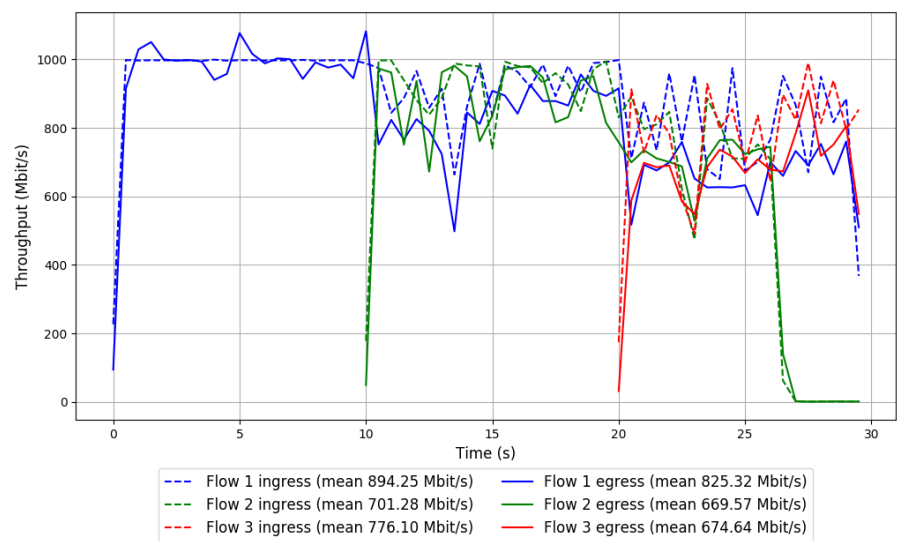
-- Flow 3:

Average throughput: 674.64 Mbit/s

95th percentile per-packet one-way delay: 182.661 ms

Loss rate: 14.16%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2017-12-21 06:39:33

End at: 2017-12-21 06:40:03

Below is generated by plot.py at 2017-12-21 11:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1355.85 Mbit/s

95th percentile per-packet one-way delay: 175.083 ms

Loss rate: 5.12%

-- Flow 1:

Average throughput: 831.45 Mbit/s

95th percentile per-packet one-way delay: 159.242 ms

Loss rate: 3.82%

-- Flow 2:

Average throughput: 573.95 Mbit/s

95th percentile per-packet one-way delay: 173.616 ms

Loss rate: 6.67%

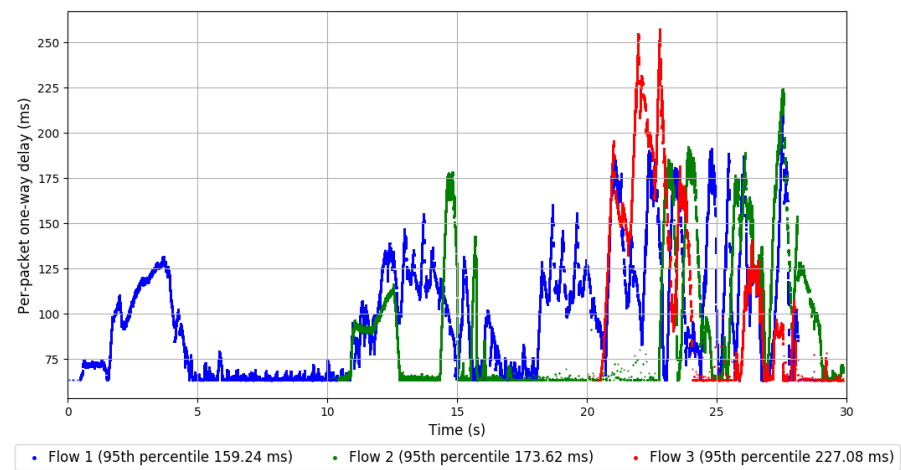
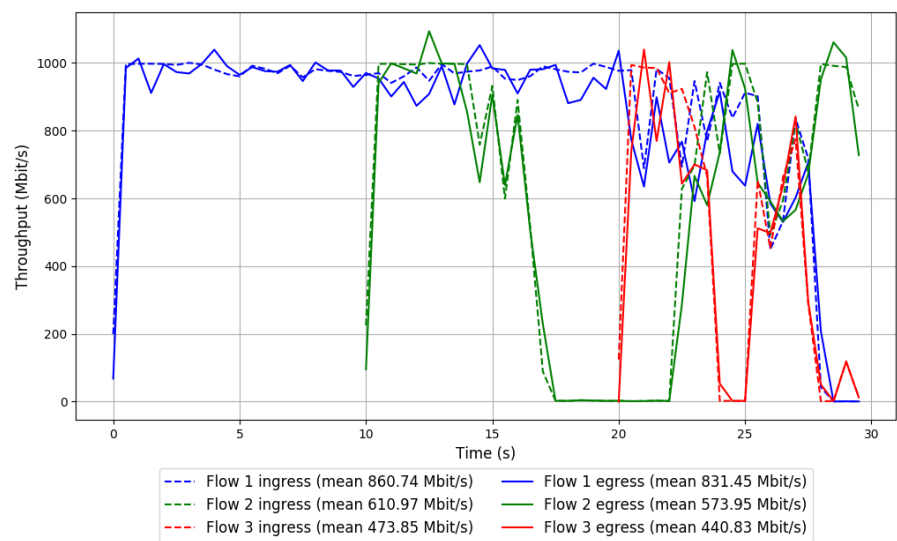
-- Flow 3:

Average throughput: 440.83 Mbit/s

95th percentile per-packet one-way delay: 227.079 ms

Loss rate: 8.22%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2017-12-21 06:53:26

End at: 2017-12-21 06:53:56

Below is generated by plot.py at 2017-12-21 11:12:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1444.43 Mbit/s

95th percentile per-packet one-way delay: 180.620 ms

Loss rate: 7.78%

-- Flow 1:

Average throughput: 832.43 Mbit/s

95th percentile per-packet one-way delay: 181.151 ms

Loss rate: 7.04%

-- Flow 2:

Average throughput: 568.57 Mbit/s

95th percentile per-packet one-way delay: 174.602 ms

Loss rate: 6.20%

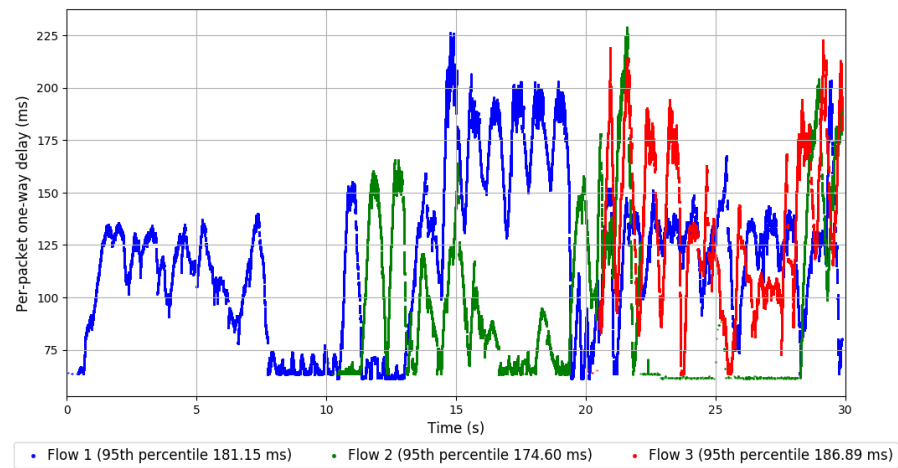
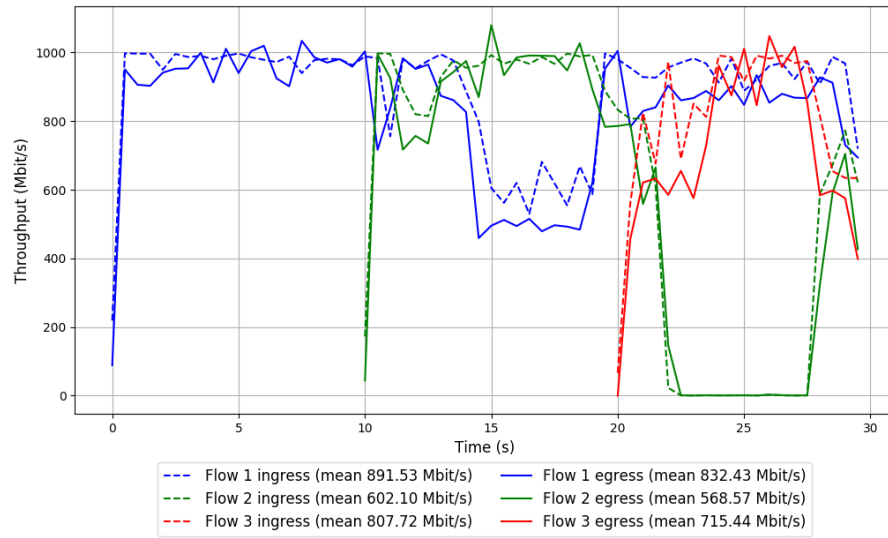
-- Flow 3:

Average throughput: 715.44 Mbit/s

95th percentile per-packet one-way delay: 186.889 ms

Loss rate: 12.59%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2017-12-21 07:07:24

End at: 2017-12-21 07:07:54

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 1464.79 Mbit/s

95th percentile per-packet one-way delay: 284.341 ms

Loss rate: 5.55%

-- Flow 1:

Average throughput: 797.15 Mbit/s

95th percentile per-packet one-way delay: 285.874 ms

Loss rate: 5.25%

-- Flow 2:

Average throughput: 703.77 Mbit/s

95th percentile per-packet one-way delay: 293.556 ms

Loss rate: 6.52%

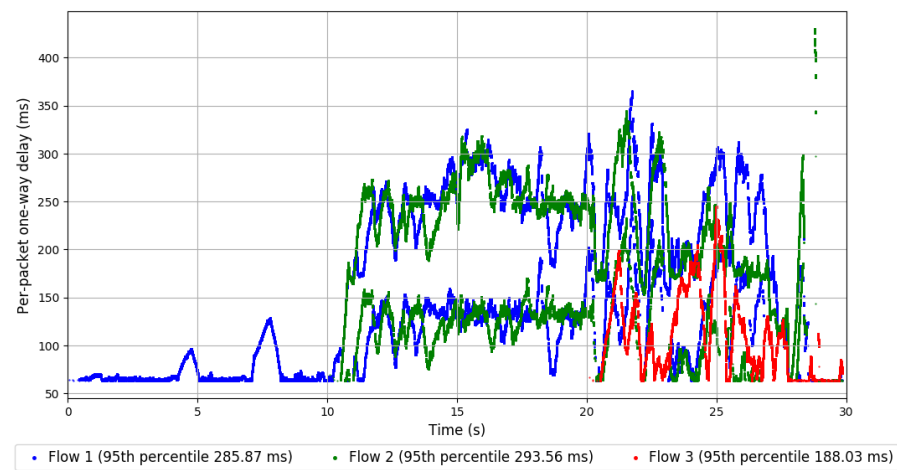
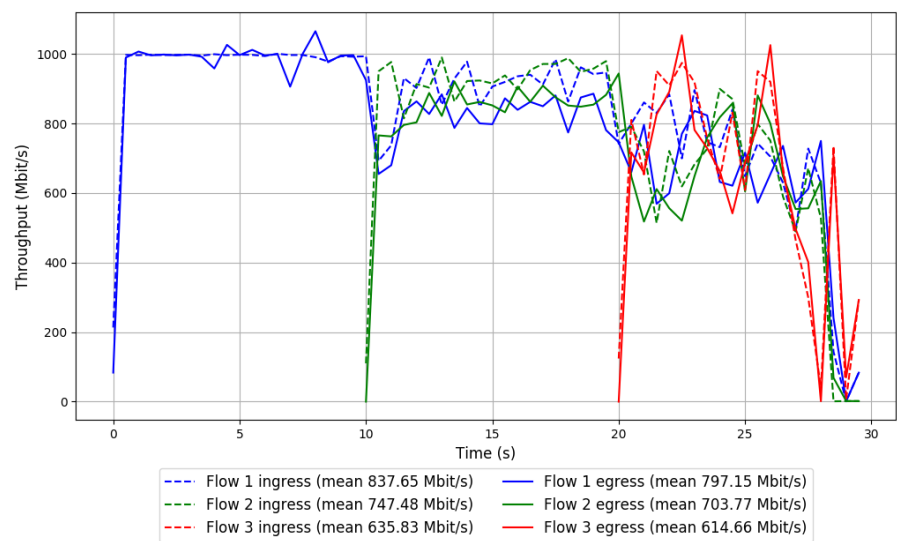
-- Flow 3:

Average throughput: 614.66 Mbit/s

95th percentile per-packet one-way delay: 188.027 ms

Loss rate: 4.45%

Run 10: Report of FillP — Data Link

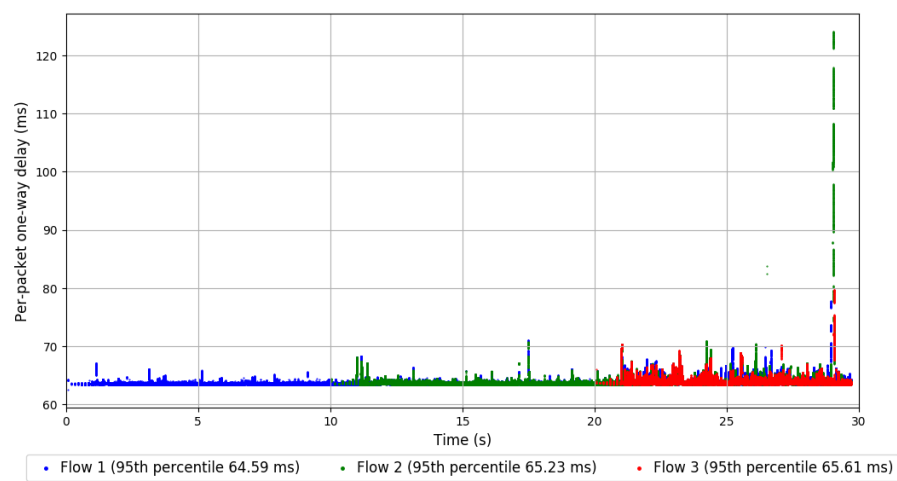
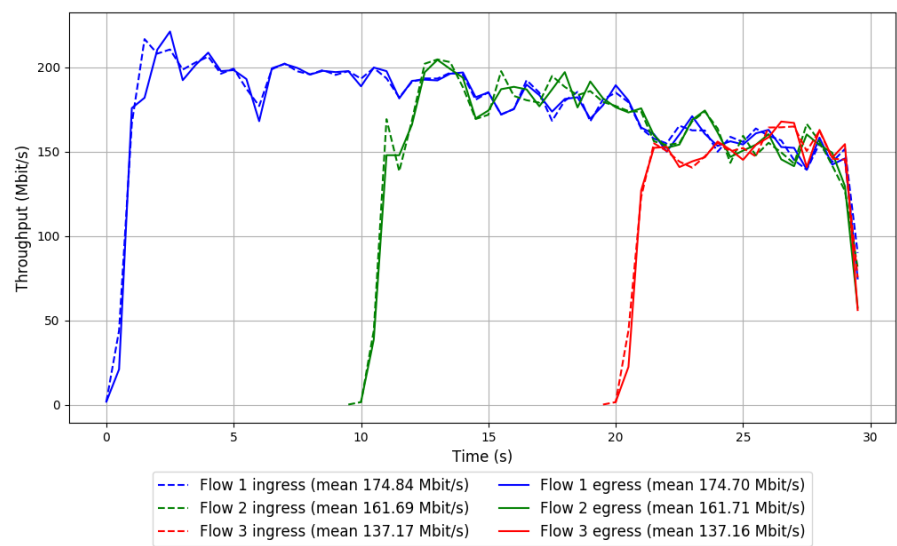


```
Run 1: Statistics of Indigo

Start at: 2017-12-21 05:04:20
End at: 2017-12-21 05:04:50

# Below is generated by plot.py at 2017-12-21 11:12:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.59 Mbit/s
95th percentile per-packet one-way delay: 65.021 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 174.70 Mbit/s
95th percentile per-packet one-way delay: 64.591 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 161.71 Mbit/s
95th percentile per-packet one-way delay: 65.234 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 137.16 Mbit/s
95th percentile per-packet one-way delay: 65.609 ms
Loss rate: 1.34%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-21 05:18:29

End at: 2017-12-21 05:18:59

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.58 Mbit/s

95th percentile per-packet one-way delay: 64.193 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 152.75 Mbit/s

95th percentile per-packet one-way delay: 63.869 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 155.73 Mbit/s

95th percentile per-packet one-way delay: 64.603 ms

Loss rate: 0.55%

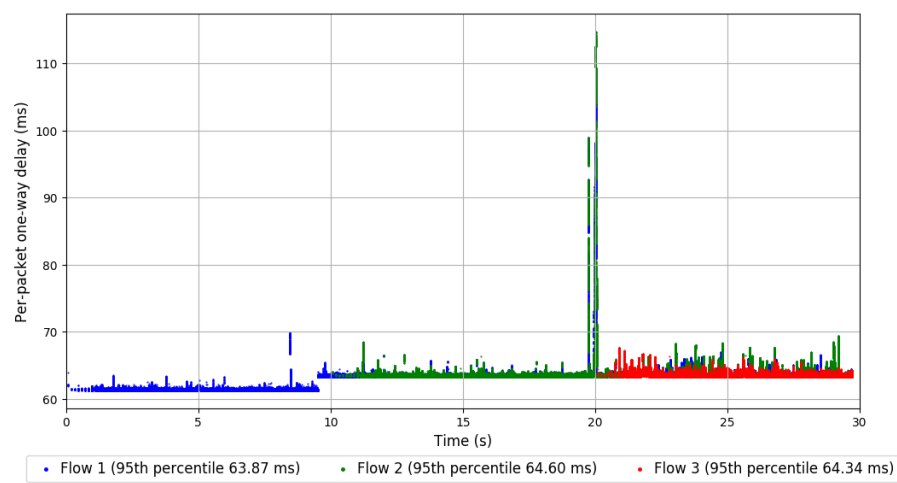
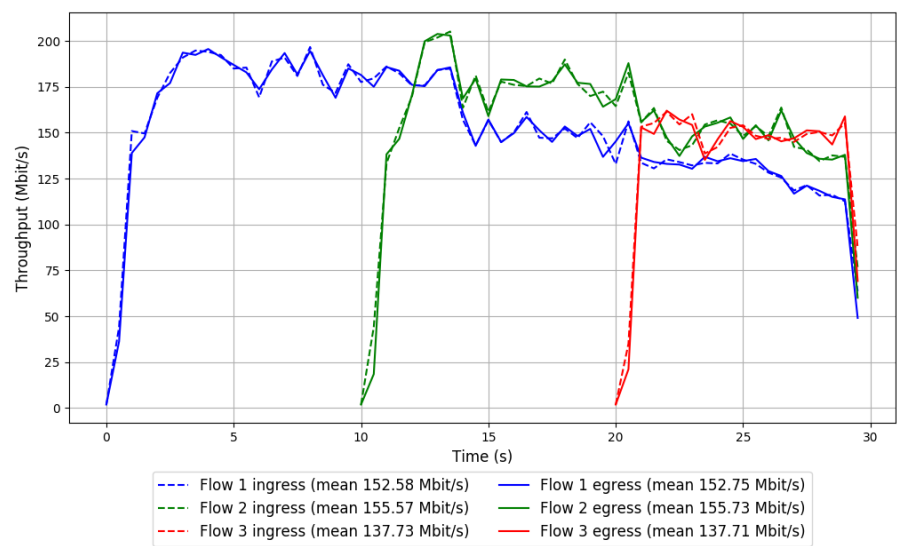
-- Flow 3:

Average throughput: 137.71 Mbit/s

95th percentile per-packet one-way delay: 64.340 ms

Loss rate: 1.35%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-21 05:32:48

End at: 2017-12-21 05:33:18

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.18 Mbit/s

95th percentile per-packet one-way delay: 64.396 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 162.22 Mbit/s

95th percentile per-packet one-way delay: 64.083 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 157.70 Mbit/s

95th percentile per-packet one-way delay: 64.602 ms

Loss rate: 0.79%

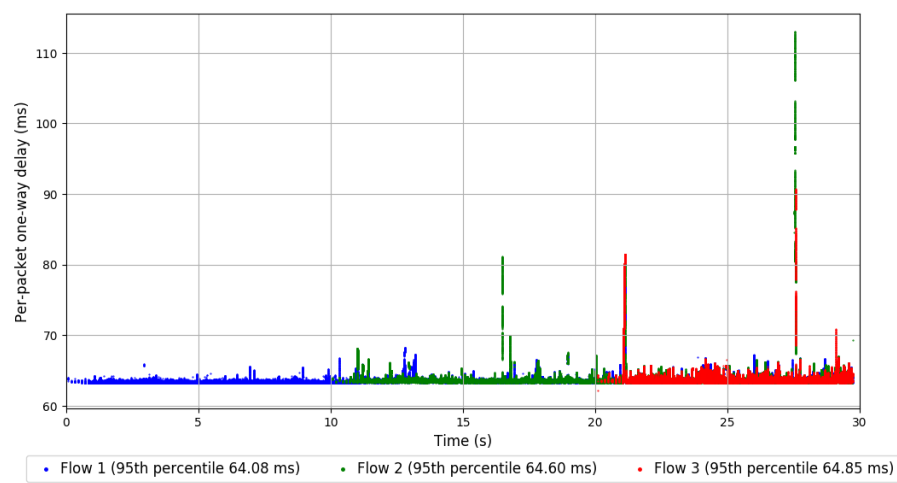
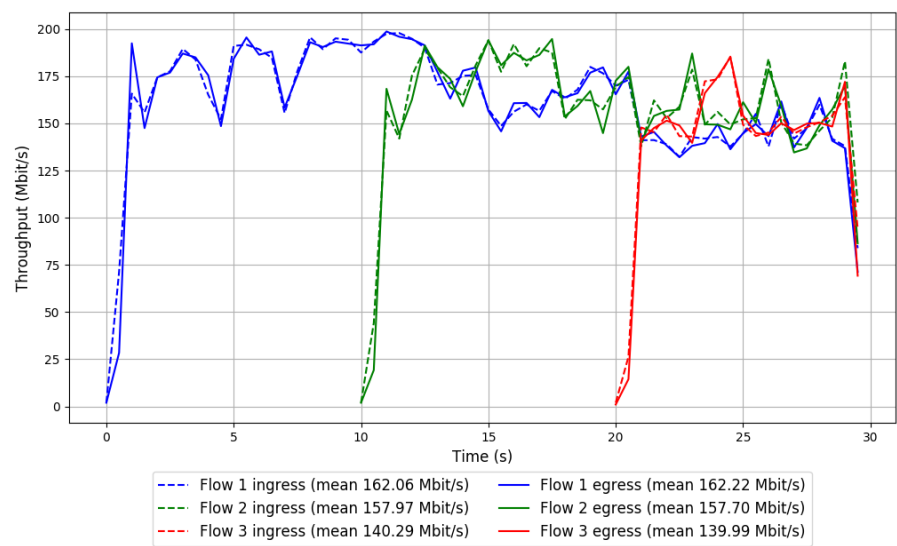
-- Flow 3:

Average throughput: 139.99 Mbit/s

95th percentile per-packet one-way delay: 64.846 ms

Loss rate: 1.50%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-21 05:46:56

End at: 2017-12-21 05:47:26

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.25 Mbit/s

95th percentile per-packet one-way delay: 64.174 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 168.97 Mbit/s

95th percentile per-packet one-way delay: 64.071 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 149.87 Mbit/s

95th percentile per-packet one-way delay: 64.130 ms

Loss rate: 0.34%

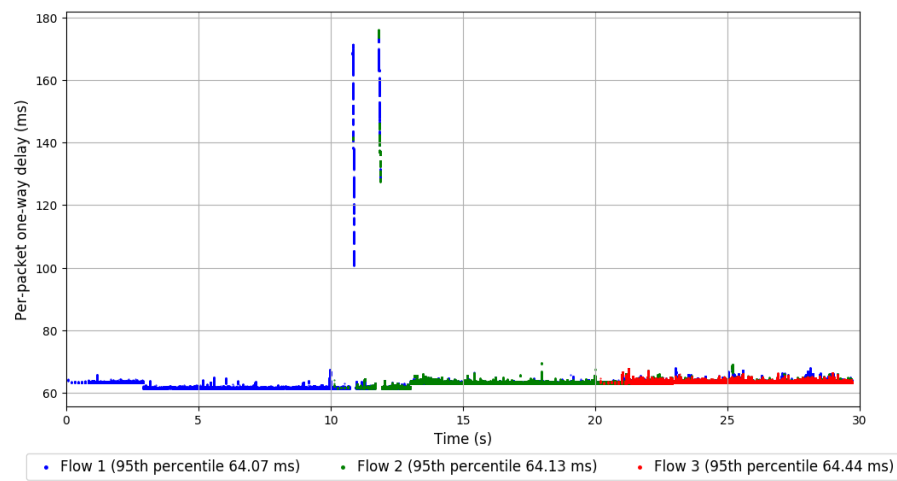
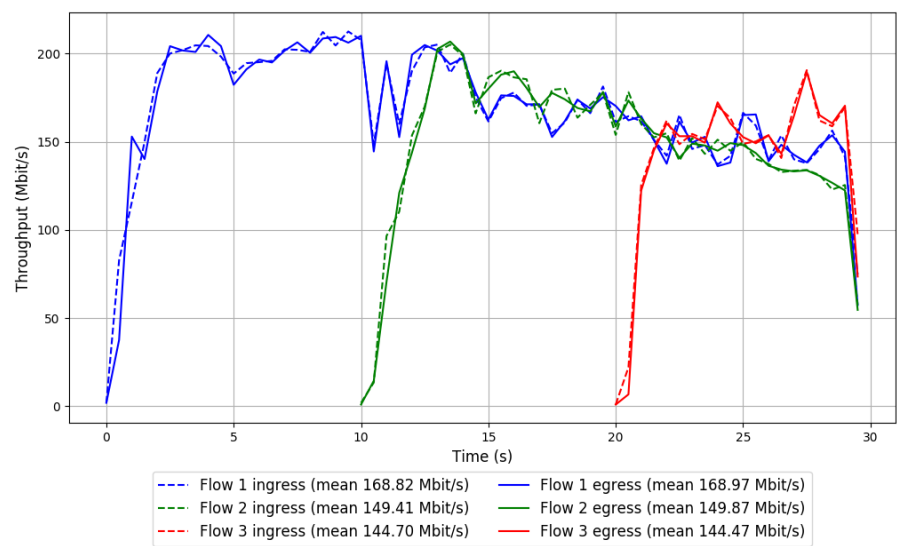
-- Flow 3:

Average throughput: 144.47 Mbit/s

95th percentile per-packet one-way delay: 64.439 ms

Loss rate: 1.48%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-21 06:01:21

End at: 2017-12-21 06:01:51

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.58 Mbit/s

95th percentile per-packet one-way delay: 64.864 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 165.80 Mbit/s

95th percentile per-packet one-way delay: 64.408 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 162.22 Mbit/s

95th percentile per-packet one-way delay: 65.290 ms

Loss rate: 0.65%

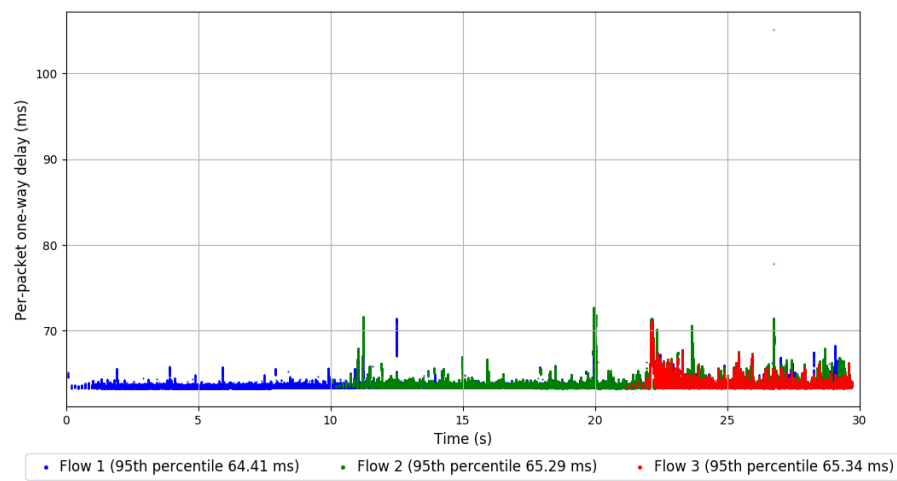
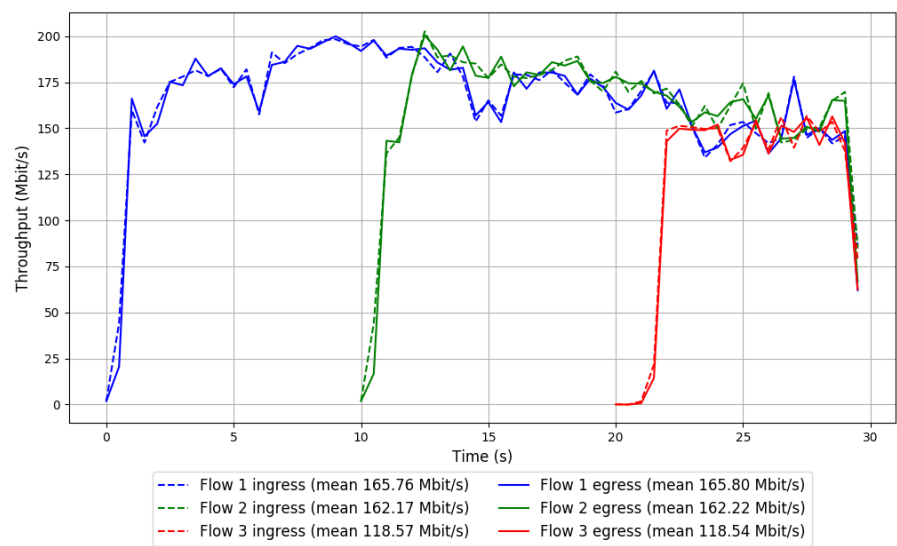
-- Flow 3:

Average throughput: 118.54 Mbit/s

95th percentile per-packet one-way delay: 65.336 ms

Loss rate: 1.42%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-21 06:15:27

End at: 2017-12-21 06:15:57

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.34 Mbit/s

95th percentile per-packet one-way delay: 64.563 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 169.26 Mbit/s

95th percentile per-packet one-way delay: 64.402 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 158.53 Mbit/s

95th percentile per-packet one-way delay: 64.637 ms

Loss rate: 0.61%

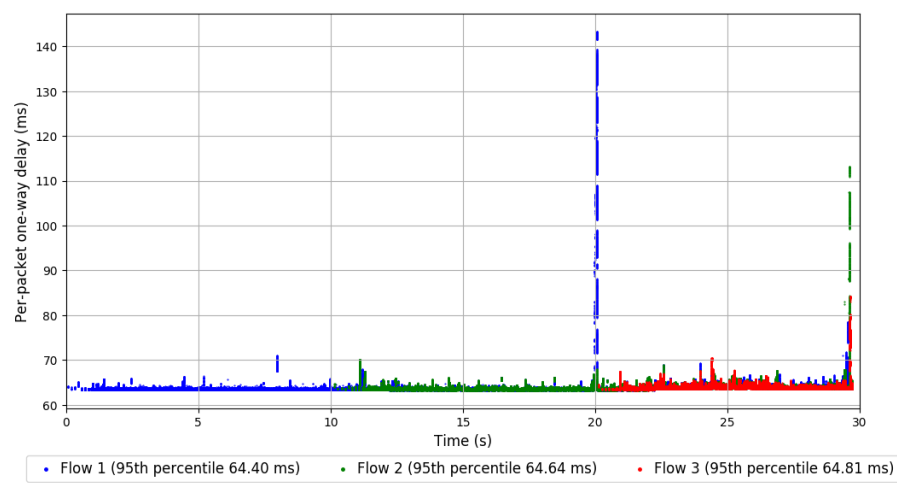
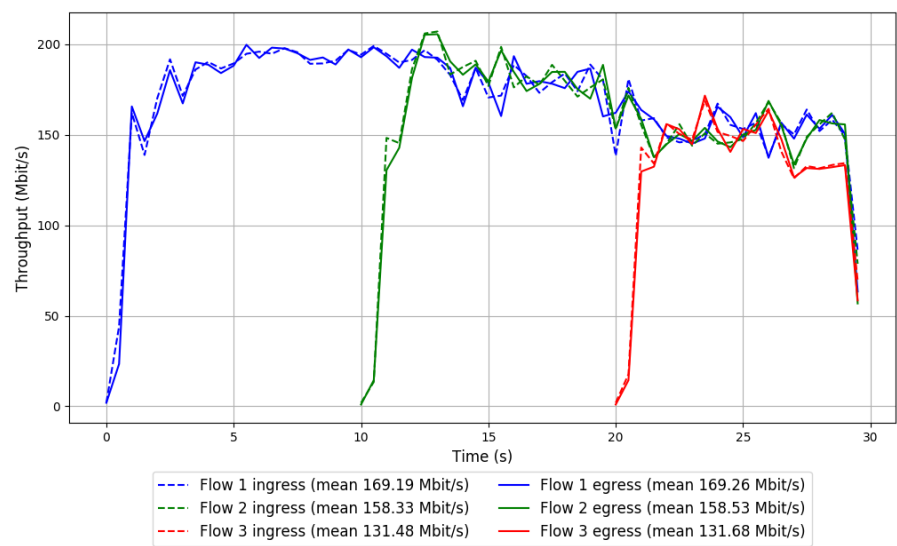
-- Flow 3:

Average throughput: 131.68 Mbit/s

95th percentile per-packet one-way delay: 64.812 ms

Loss rate: 1.18%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-21 06:29:40

End at: 2017-12-21 06:30:10

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.96 Mbit/s

95th percentile per-packet one-way delay: 64.370 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 167.37 Mbit/s

95th percentile per-packet one-way delay: 64.114 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 148.97 Mbit/s

95th percentile per-packet one-way delay: 64.594 ms

Loss rate: 0.68%

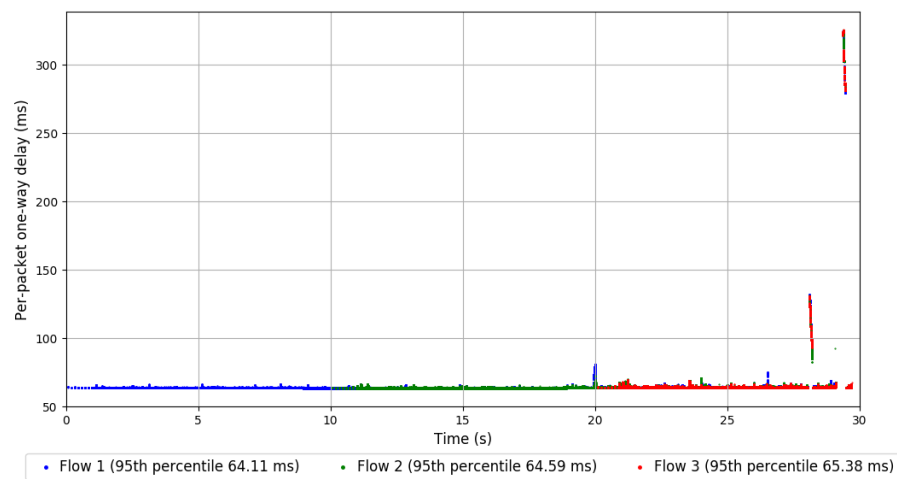
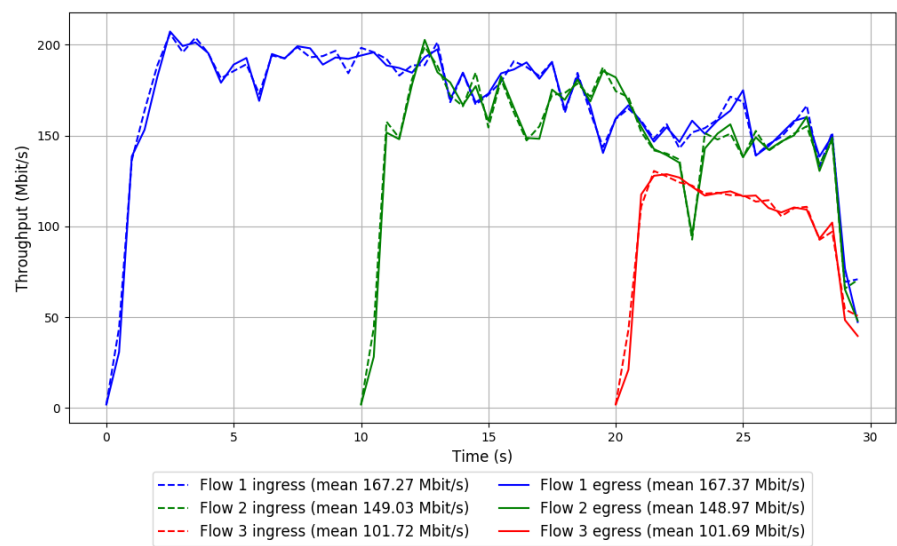
-- Flow 3:

Average throughput: 101.69 Mbit/s

95th percentile per-packet one-way delay: 65.375 ms

Loss rate: 1.31%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-21 06:43:53

End at: 2017-12-21 06:44:23

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.97 Mbit/s

95th percentile per-packet one-way delay: 64.632 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 166.23 Mbit/s

95th percentile per-packet one-way delay: 64.389 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 146.28 Mbit/s

95th percentile per-packet one-way delay: 65.041 ms

Loss rate: 0.58%

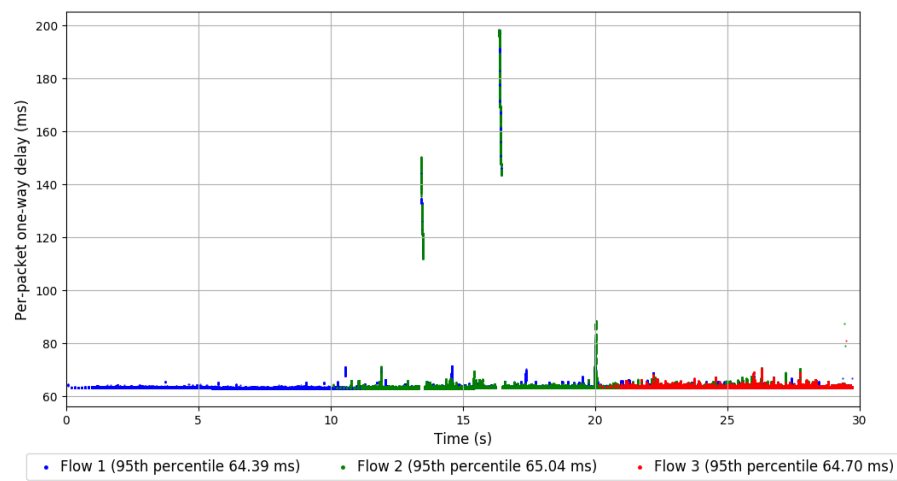
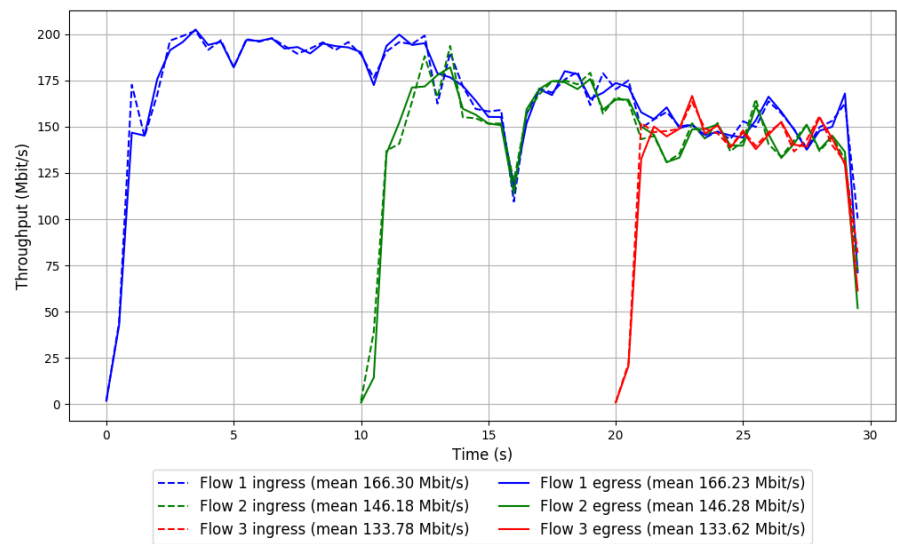
-- Flow 3:

Average throughput: 133.62 Mbit/s

95th percentile per-packet one-way delay: 64.698 ms

Loss rate: 1.48%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-21 06:57:38

End at: 2017-12-21 06:58:08

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.96 Mbit/s

95th percentile per-packet one-way delay: 64.696 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 175.59 Mbit/s

95th percentile per-packet one-way delay: 64.499 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 159.49 Mbit/s

95th percentile per-packet one-way delay: 64.895 ms

Loss rate: 0.72%

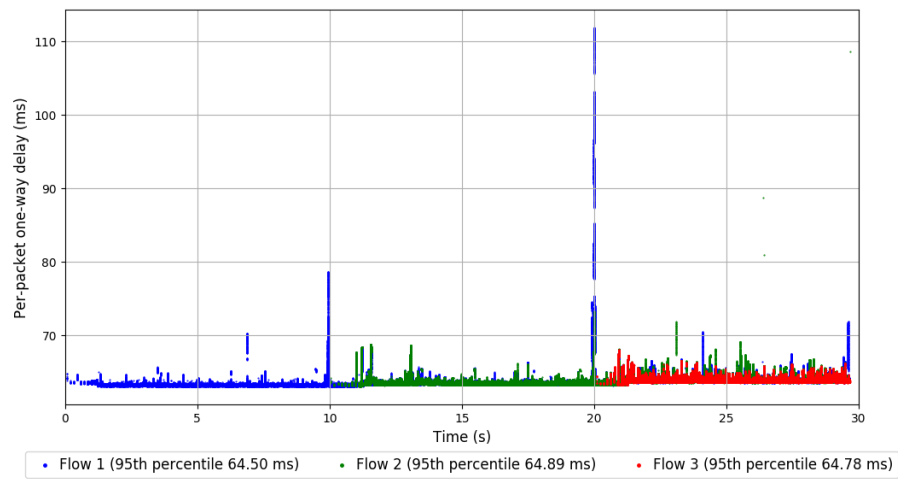
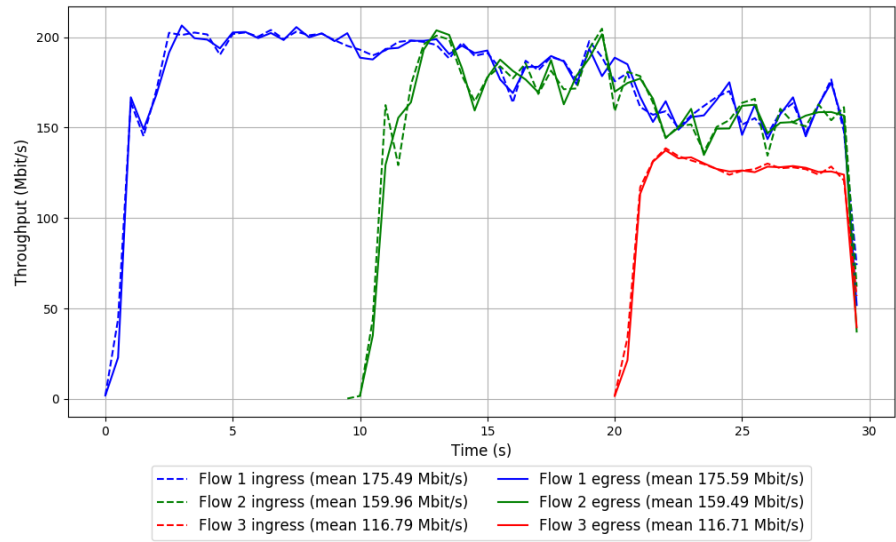
-- Flow 3:

Average throughput: 116.71 Mbit/s

95th percentile per-packet one-way delay: 64.784 ms

Loss rate: 1.40%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-21 07:11:54

End at: 2017-12-21 07:12:25

Below is generated by plot.py at 2017-12-21 11:12:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.61 Mbit/s

95th percentile per-packet one-way delay: 64.175 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 167.48 Mbit/s

95th percentile per-packet one-way delay: 64.050 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 145.45 Mbit/s

95th percentile per-packet one-way delay: 64.390 ms

Loss rate: 0.66%

-- Flow 3:

Average throughput: 130.57 Mbit/s

95th percentile per-packet one-way delay: 64.181 ms

Loss rate: 1.34%

Run 10: Report of Indigo — Data Link

