

Pantheon Report

Generated at 2017-12-01 01:26:16 (UTC).

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

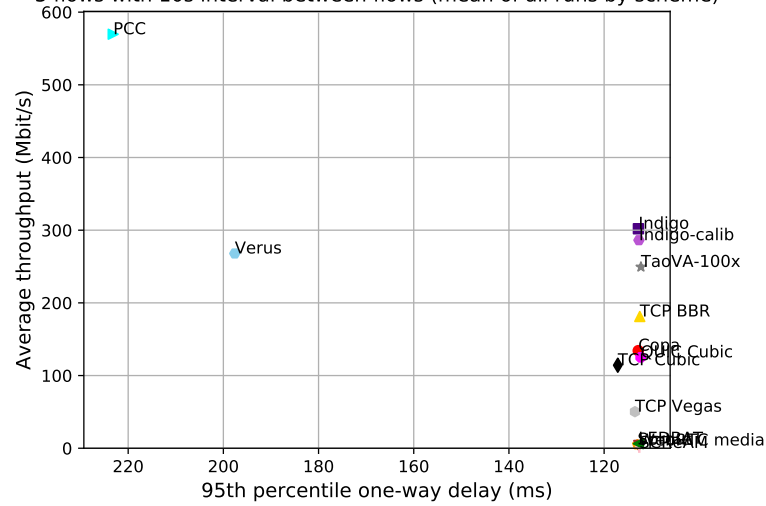
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

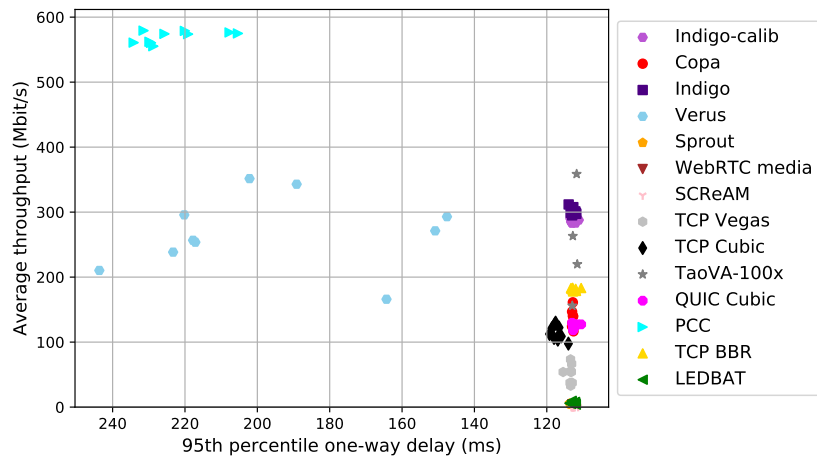
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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-quic @ 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 London 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 London Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



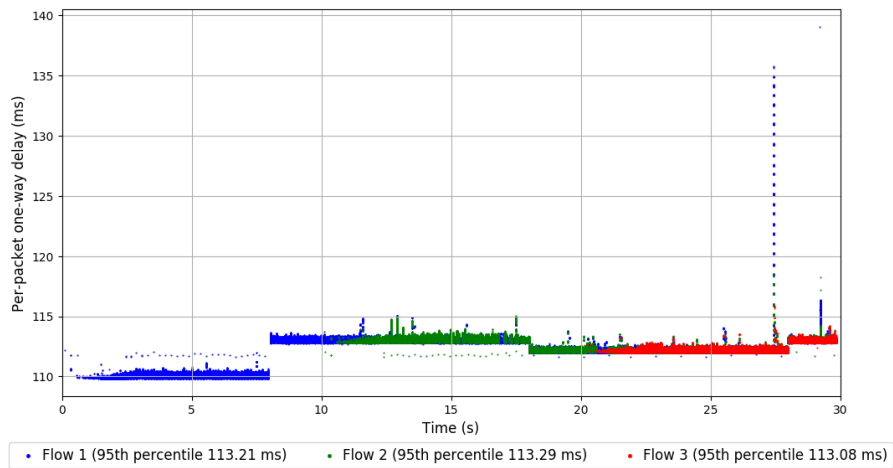
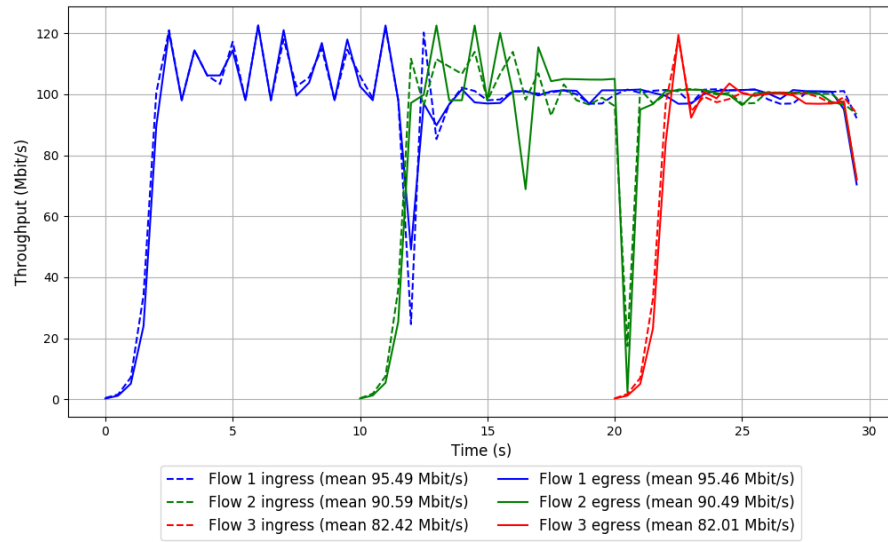
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	94.05	90.18	84.07	112.47	112.51	112.51	0.81	1.27	2.70
TCP Cubic	10	60.00	56.94	50.61	116.67	117.14	118.09	1.00	1.14	2.59
LEDBAT	10	3.61	3.22	1.72	112.86	112.82	112.64	1.34	2.37	4.28
PCC	10	516.62	69.10	22.43	223.18	224.72	225.89	3.10	2.65	4.48
QUIC Cubic	10	65.12	64.18	53.81	111.85	110.87	110.98	0.68	0.76	2.94
SCReAM	10	0.22	0.20	0.22	112.29	111.88	111.58	0.67	1.06	2.25
WebRTC media	10	2.09	1.29	0.47	112.13	111.81	112.59	0.97	1.33	3.75
Sprout	8	2.72	2.36	2.04	113.01	113.03	112.92	0.68	1.43	3.89
TaoVA-100x	4	130.42	159.26	47.51	112.29	112.21	112.77	2.72	0.78	3.55
TCP Vegas	10	23.60	26.61	27.76	113.18	113.31	114.75	0.81	1.24	2.37
Verus	10	177.00	105.68	64.01	184.69	191.08	188.38	2.15	2.35	6.55
Copa	9	79.01	62.80	54.38	112.34	112.68	112.55	0.60	1.19	5.26
Indigo	10	161.09	151.07	126.34	112.51	113.11	113.45	0.72	1.13	2.89
Indigo-calib	10	152.37	143.73	120.63	112.41	112.78	113.32	0.75	1.21	2.91

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-30 20:04:36
End at: 2017-11-30 20:05:06

# Below is generated by plot.py at 2017-12-01 00:41:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 182.15 Mbit/s
95th percentile per-packet one-way delay: 113.228 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 113.211 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 113.289 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 82.01 Mbit/s
95th percentile per-packet one-way delay: 113.085 ms
Loss rate: 2.89%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 20:17:40

End at: 2017-11-30 20:18:10

Below is generated by plot.py at 2017-12-01 00:41:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.06 Mbit/s

95th percentile per-packet one-way delay: 113.315 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 113.249 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 88.89 Mbit/s

95th percentile per-packet one-way delay: 113.271 ms

Loss rate: 1.26%

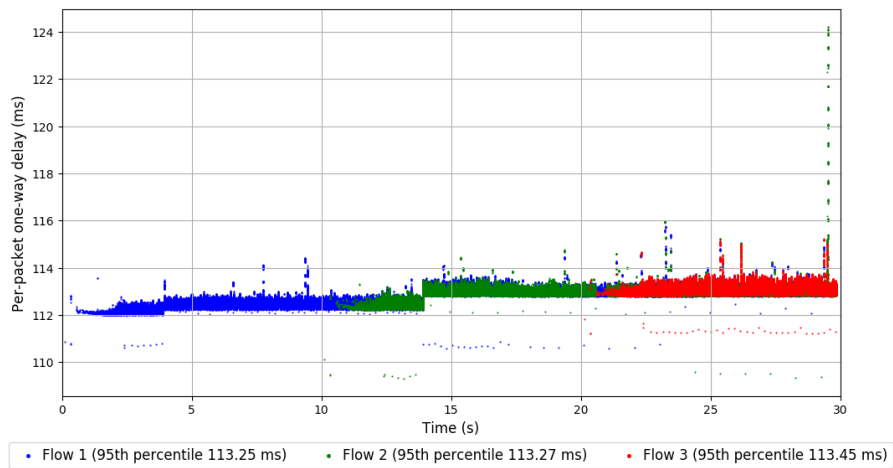
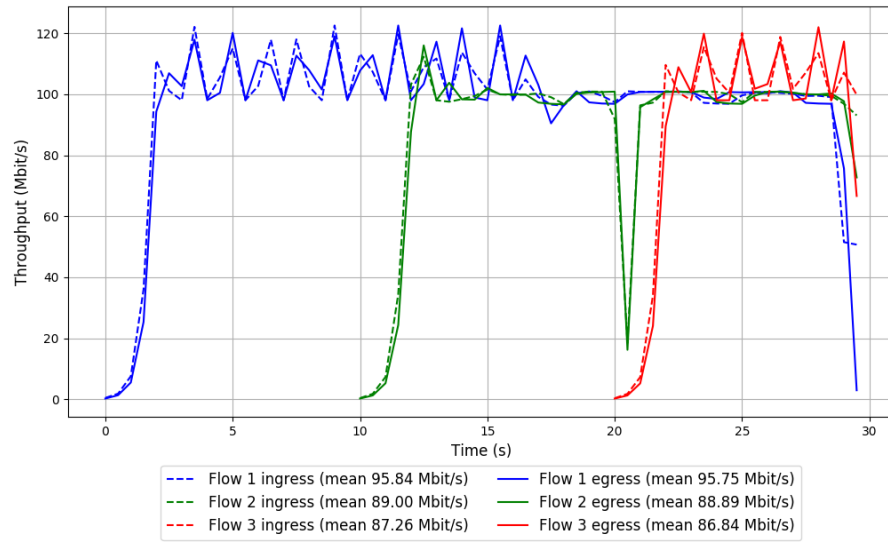
-- Flow 3:

Average throughput: 86.84 Mbit/s

95th percentile per-packet one-way delay: 113.447 ms

Loss rate: 2.74%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 20:30:53

End at: 2017-11-30 20:31:23

Below is generated by plot.py at 2017-12-01 00:41:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.19 Mbit/s

95th percentile per-packet one-way delay: 112.771 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 112.789 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 89.00 Mbit/s

95th percentile per-packet one-way delay: 112.748 ms

Loss rate: 1.37%

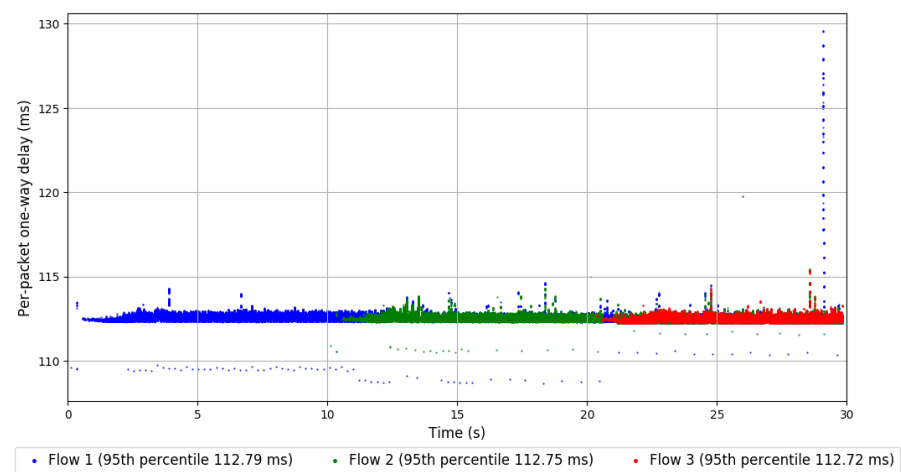
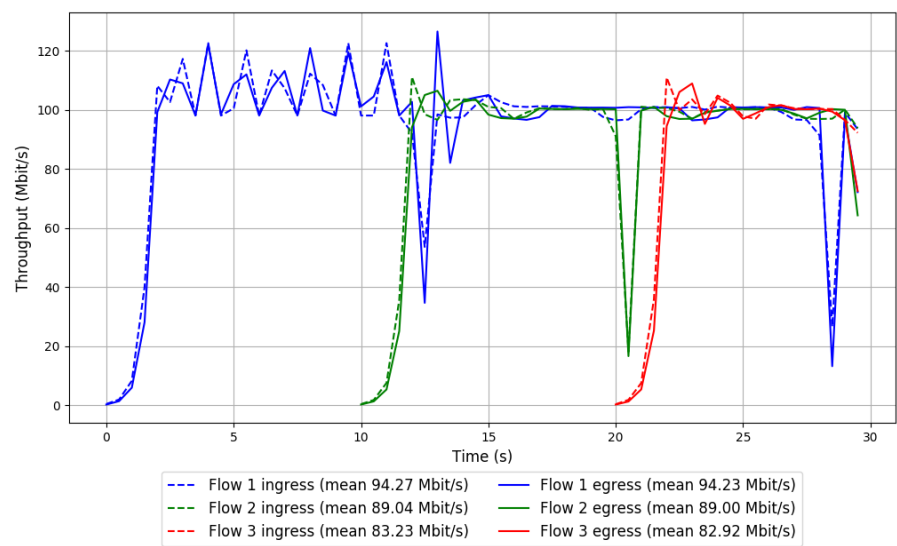
-- Flow 3:

Average throughput: 82.92 Mbit/s

95th percentile per-packet one-way delay: 112.723 ms

Loss rate: 2.66%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 20:44:03

End at: 2017-11-30 20:44:33

Below is generated by plot.py at 2017-12-01 00:41:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.95 Mbit/s

95th percentile per-packet one-way delay: 112.764 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 112.752 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 112.789 ms

Loss rate: 1.29%

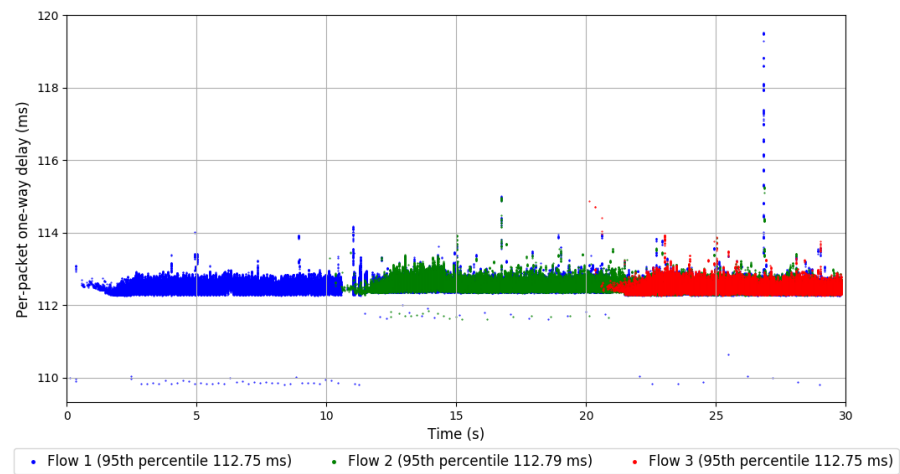
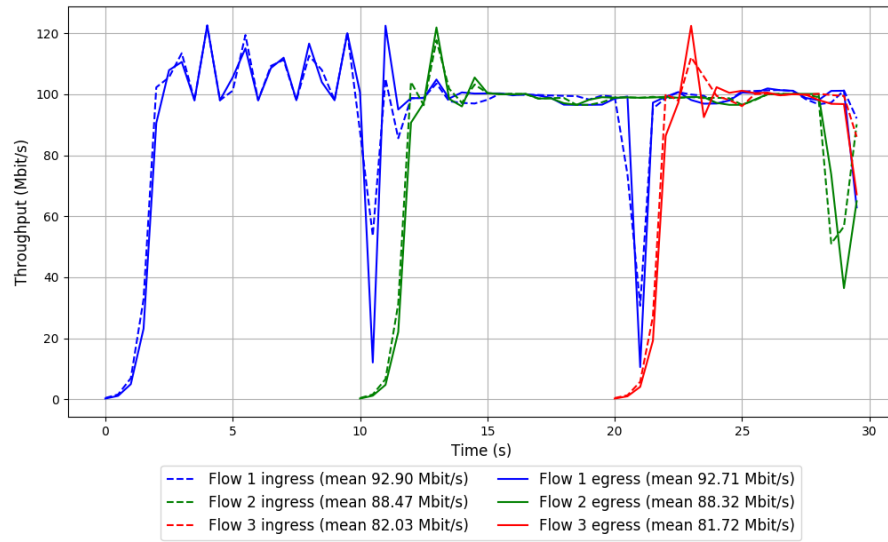
-- Flow 3:

Average throughput: 81.72 Mbit/s

95th percentile per-packet one-way delay: 112.746 ms

Loss rate: 2.64%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 20:57:25

End at: 2017-11-30 20:57:55

Below is generated by plot.py at 2017-12-01 00:41:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.24 Mbit/s

95th percentile per-packet one-way delay: 112.925 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 112.828 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 92.54 Mbit/s

95th percentile per-packet one-way delay: 112.978 ms

Loss rate: 1.31%

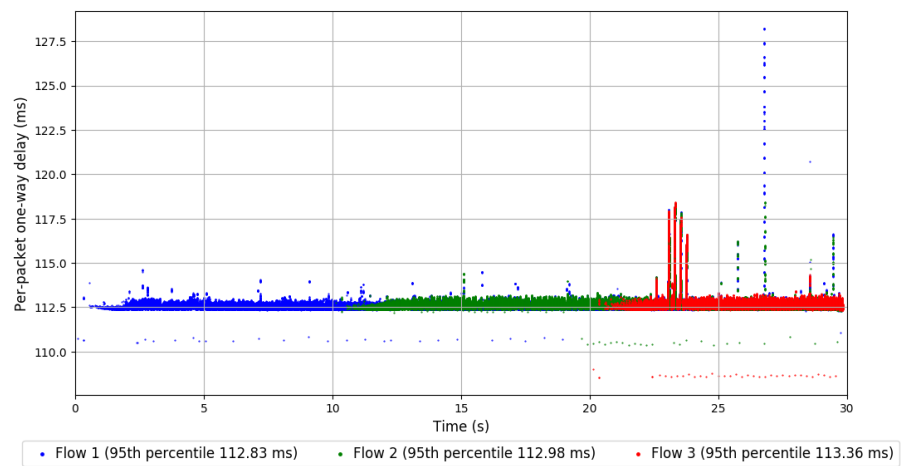
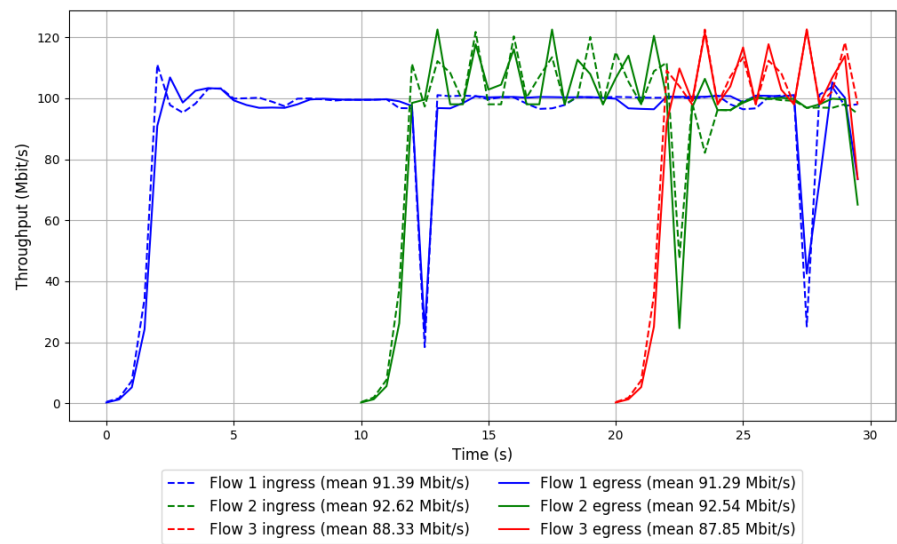
-- Flow 3:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 113.361 ms

Loss rate: 2.80%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 21:10:50

End at: 2017-11-30 21:11:20

Below is generated by plot.py at 2017-12-01 00:41:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.63 Mbit/s

95th percentile per-packet one-way delay: 112.860 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 112.784 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 112.858 ms

Loss rate: 1.17%

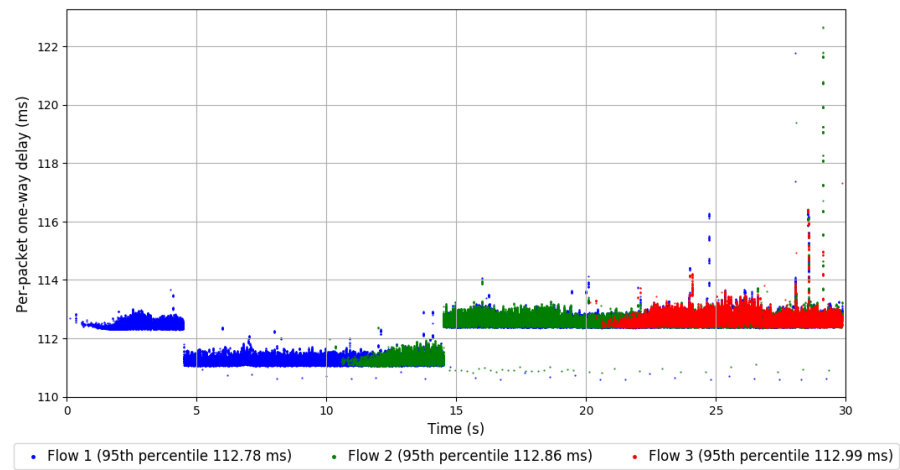
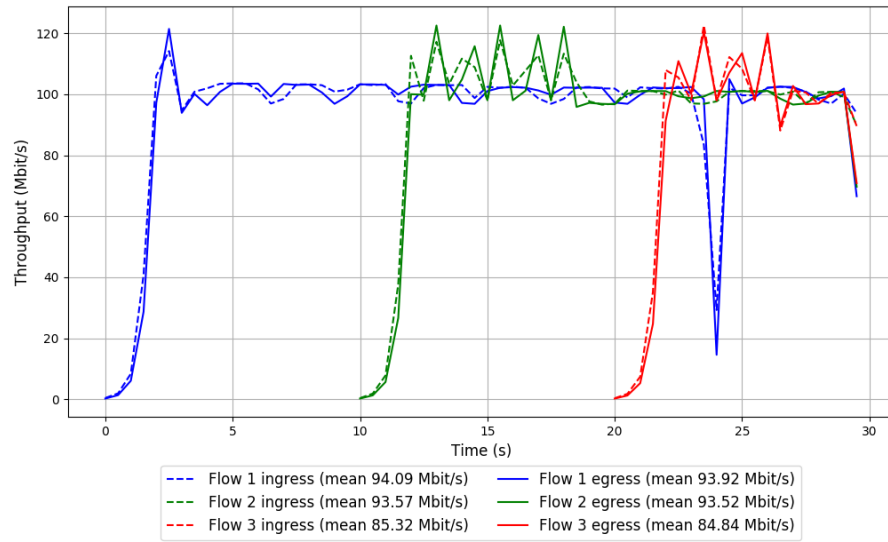
-- Flow 3:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 112.987 ms

Loss rate: 2.56%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-30 21:24:24

End at: 2017-11-30 21:24:54

Below is generated by plot.py at 2017-12-01 00:41:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.54 Mbit/s

95th percentile per-packet one-way delay: 112.784 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 112.763 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 112.842 ms

Loss rate: 1.23%

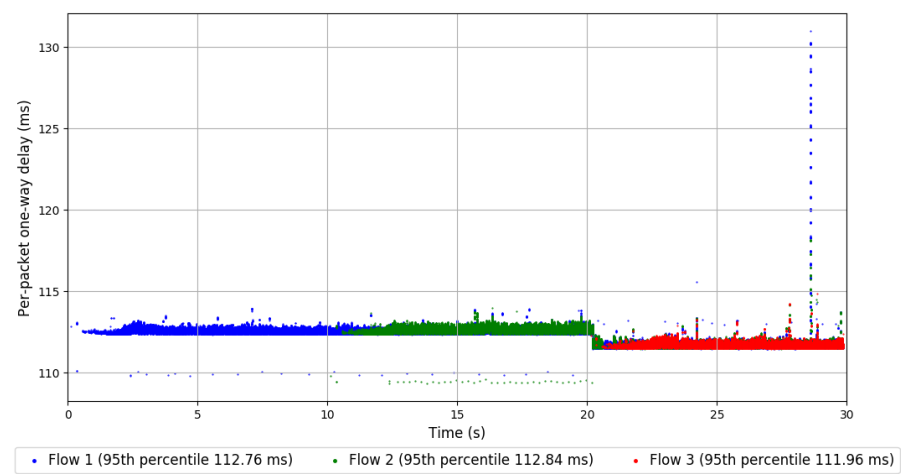
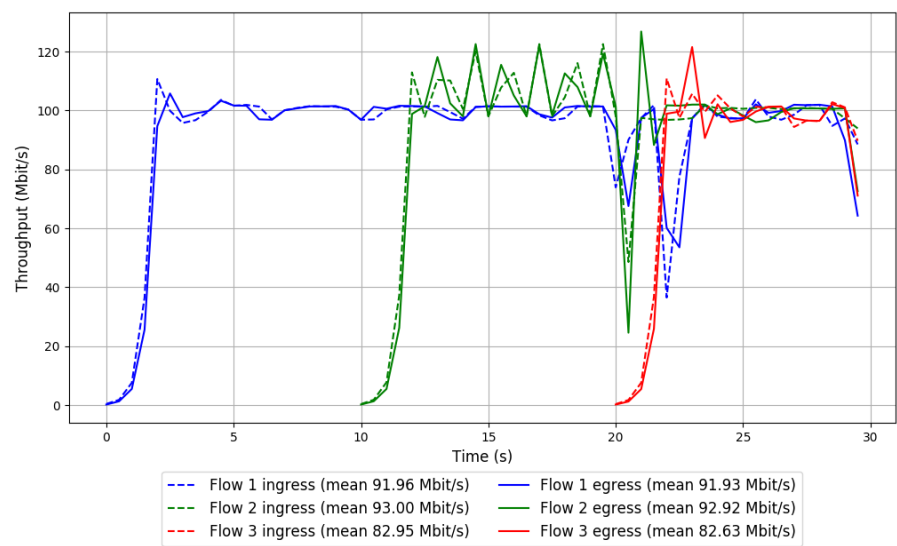
-- Flow 3:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 111.959 ms

Loss rate: 2.61%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 21:38:00

End at: 2017-11-30 21:38:30

Below is generated by plot.py at 2017-12-01 00:41:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.97 Mbit/s

95th percentile per-packet one-way delay: 112.021 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 94.22 Mbit/s

95th percentile per-packet one-way delay: 111.916 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 89.92 Mbit/s

95th percentile per-packet one-way delay: 111.990 ms

Loss rate: 1.35%

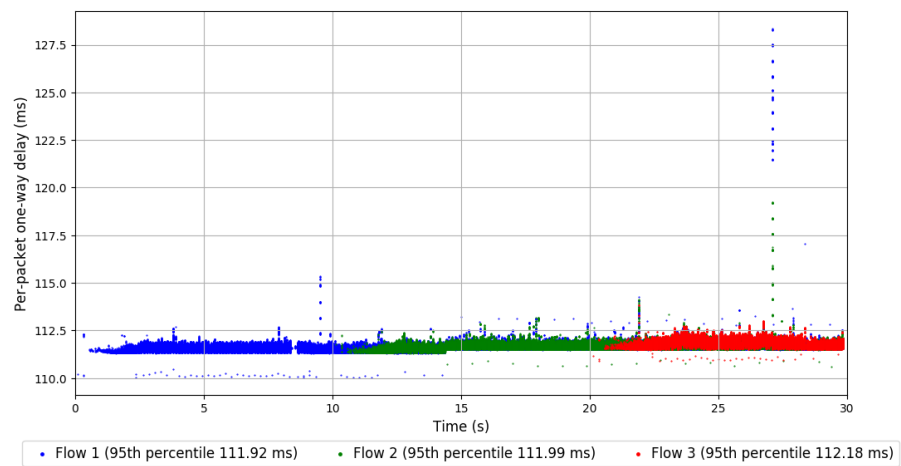
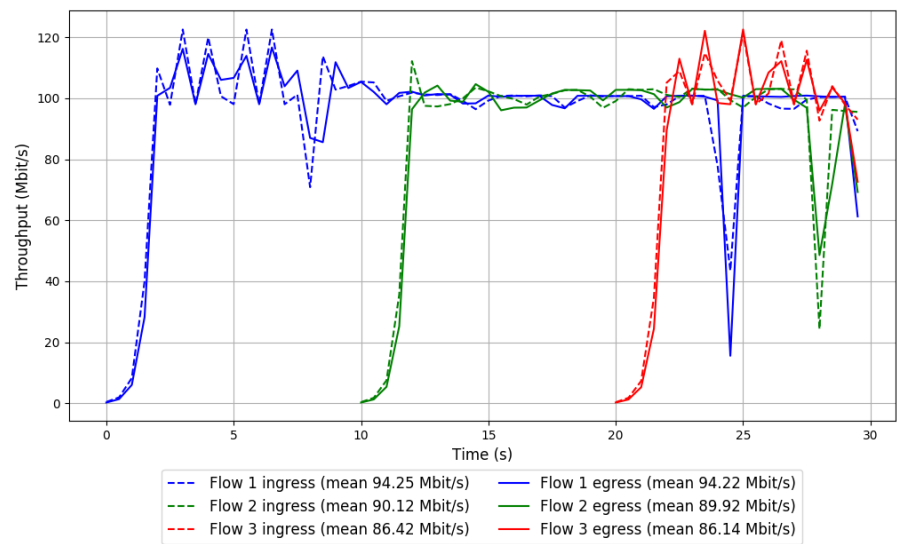
-- Flow 3:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 112.182 ms

Loss rate: 2.60%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 21:51:35

End at: 2017-11-30 21:52:05

Below is generated by plot.py at 2017-12-01 00:44:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.75 Mbit/s

95th percentile per-packet one-way delay: 111.915 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 111.901 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 84.09 Mbit/s

95th percentile per-packet one-way delay: 111.903 ms

Loss rate: 1.31%

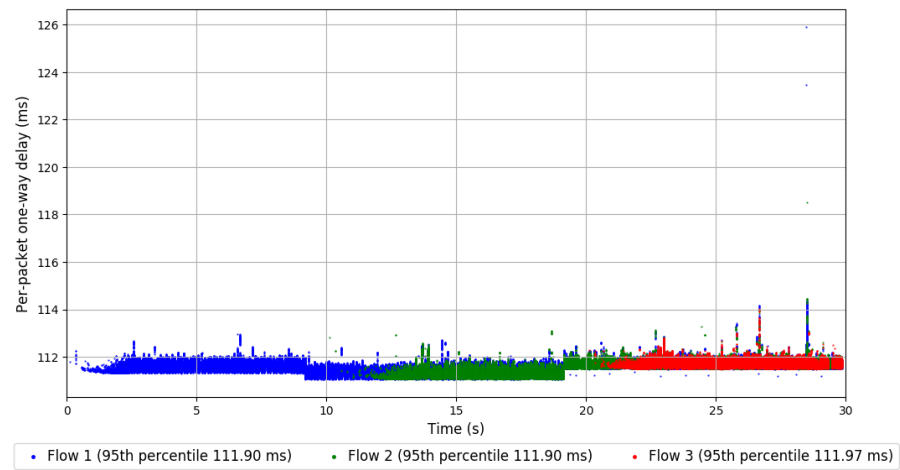
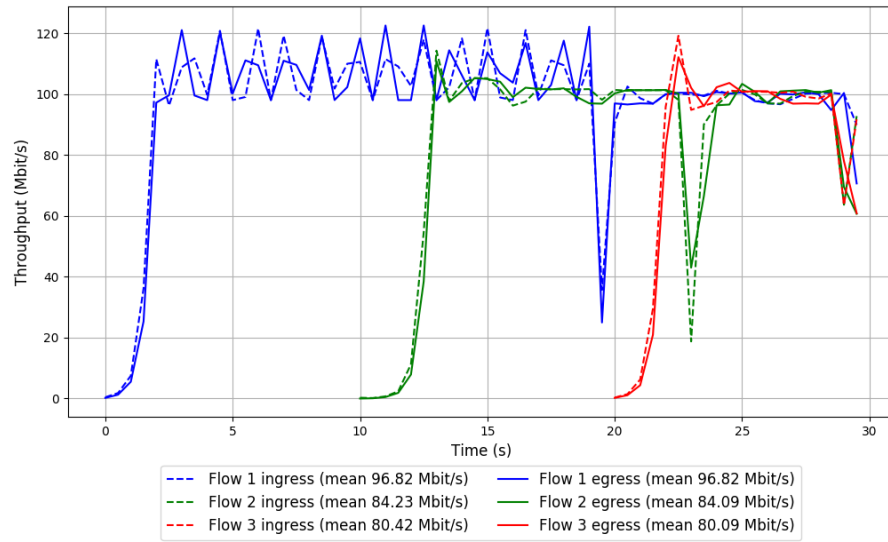
-- Flow 3:

Average throughput: 80.09 Mbit/s

95th percentile per-packet one-way delay: 111.969 ms

Loss rate: 2.67%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 22:05:02

End at: 2017-11-30 22:05:32

Below is generated by plot.py at 2017-12-01 00:44:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.19 Mbit/s

95th percentile per-packet one-way delay: 110.506 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 110.457 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 110.464 ms

Loss rate: 1.19%

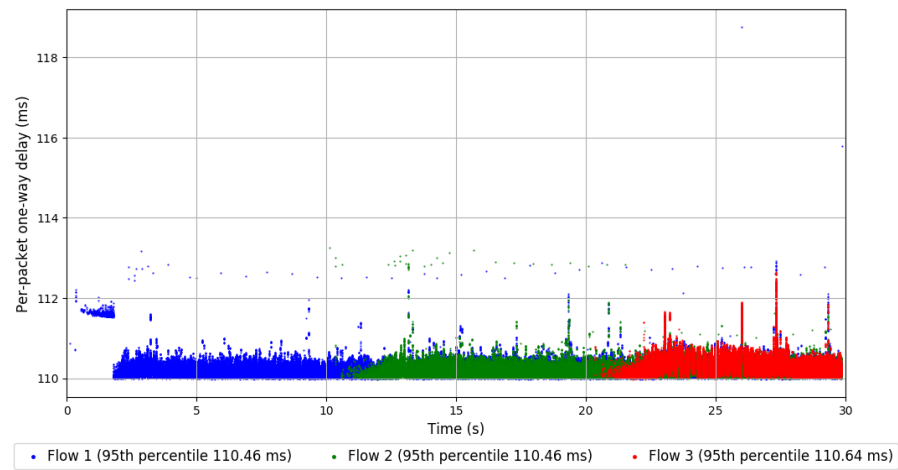
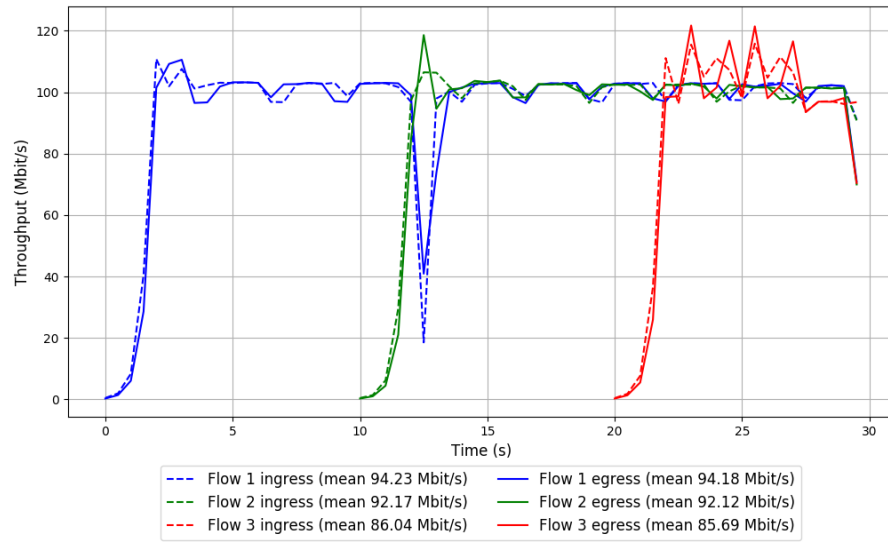
-- Flow 3:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 110.643 ms

Loss rate: 2.84%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 20:15:36

End at: 2017-11-30 20:16:06

Below is generated by plot.py at 2017-12-01 00:44:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.38 Mbit/s

95th percentile per-packet one-way delay: 116.606 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 70.76 Mbit/s

95th percentile per-packet one-way delay: 116.161 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 116.644 ms

Loss rate: 1.42%

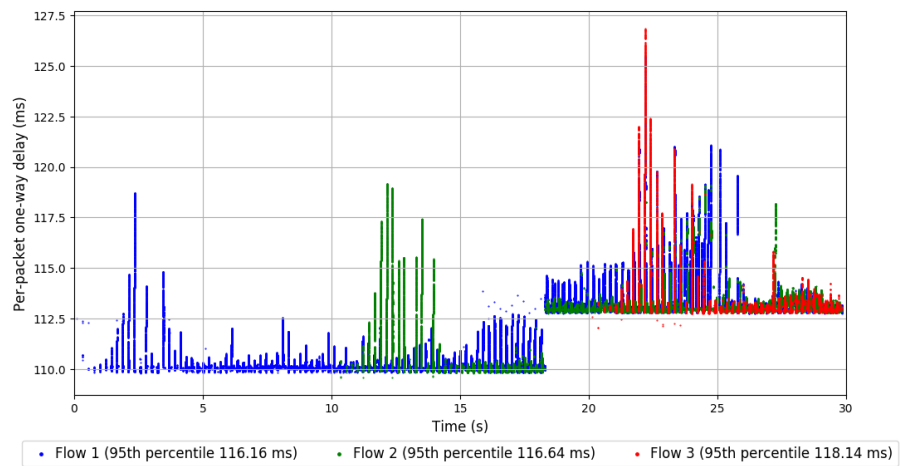
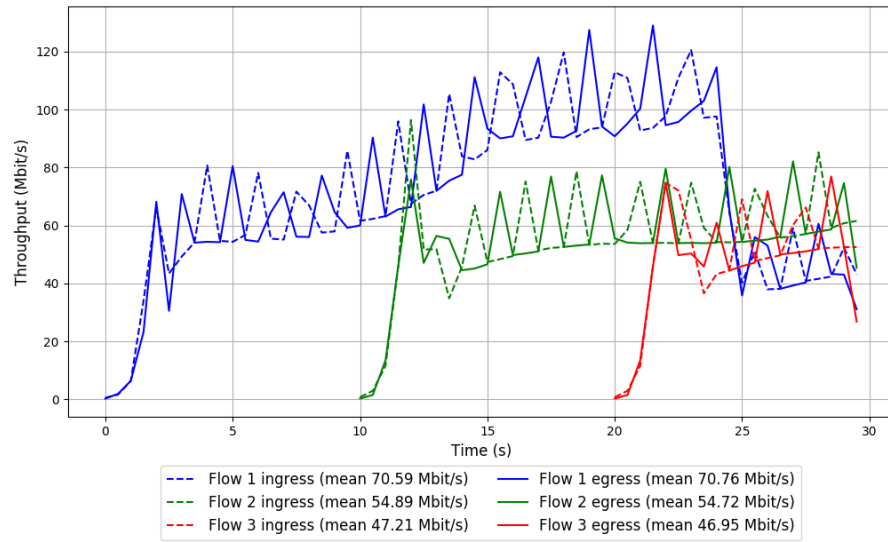
-- Flow 3:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 118.135 ms

Loss rate: 2.81%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 20:28:49

End at: 2017-11-30 20:29:19

Below is generated by plot.py at 2017-12-01 00:44:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.05 Mbit/s

95th percentile per-packet one-way delay: 118.624 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 118.962 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 118.401 ms

Loss rate: 0.76%

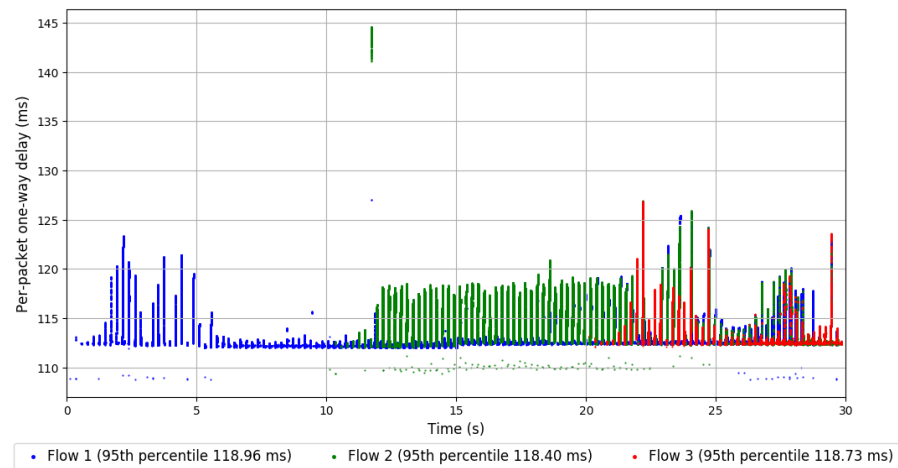
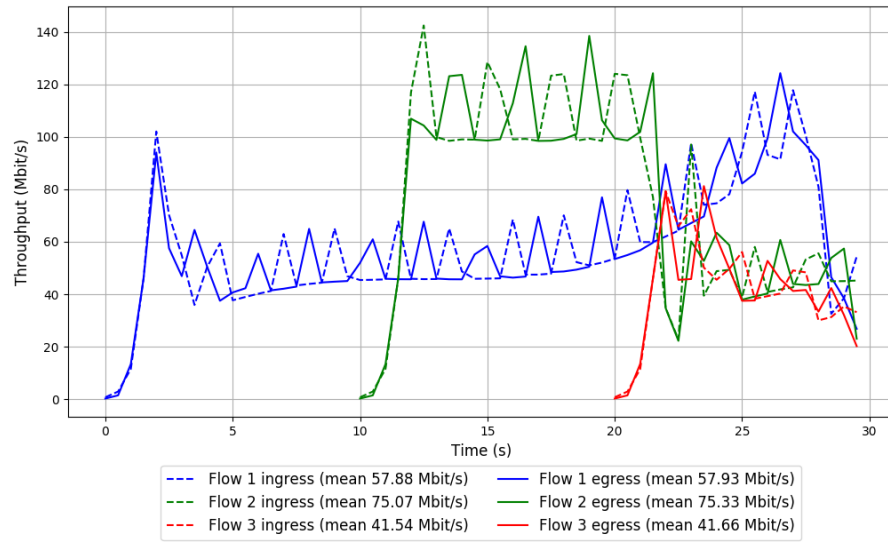
-- Flow 3:

Average throughput: 41.66 Mbit/s

95th percentile per-packet one-way delay: 118.734 ms

Loss rate: 2.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 20:41:59

End at: 2017-11-30 20:42:29

Below is generated by plot.py at 2017-12-01 00:44:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.36 Mbit/s

95th percentile per-packet one-way delay: 117.998 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 118.167 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 44.89 Mbit/s

95th percentile per-packet one-way delay: 115.211 ms

Loss rate: 1.20%

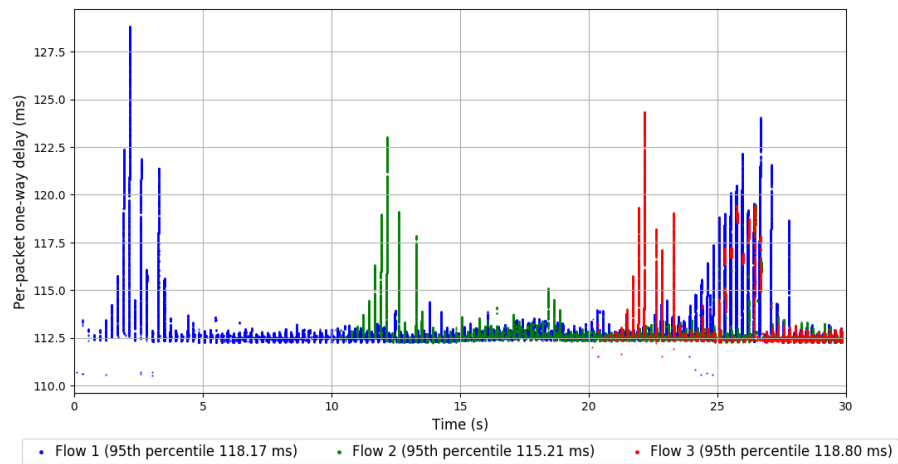
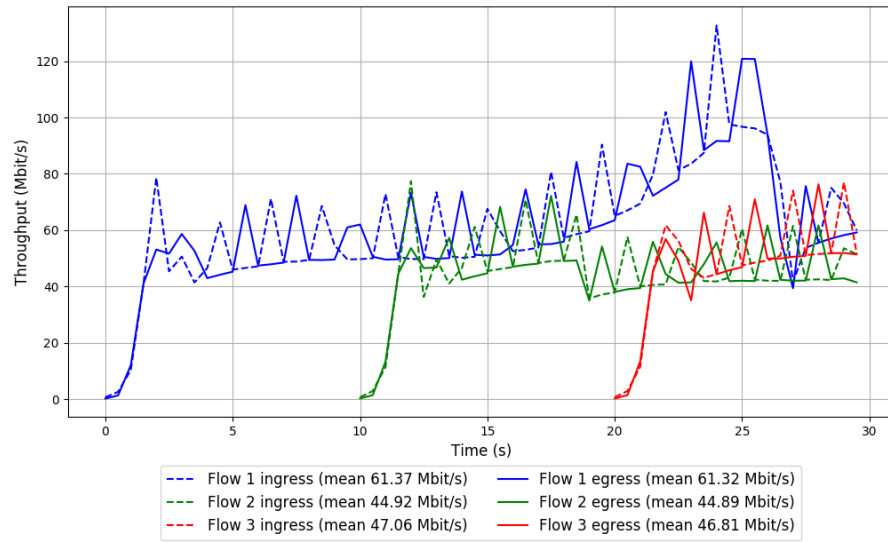
-- Flow 3:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 118.797 ms

Loss rate: 2.77%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 20:55:21

End at: 2017-11-30 20:55:51

Below is generated by plot.py at 2017-12-01 00:44:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.74 Mbit/s

95th percentile per-packet one-way delay: 116.953 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 114.755 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 57.65 Mbit/s

95th percentile per-packet one-way delay: 116.123 ms

Loss rate: 1.39%

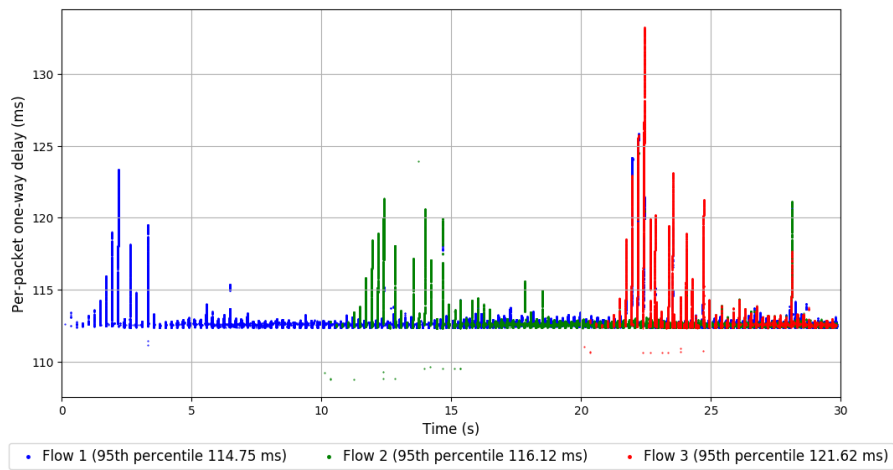
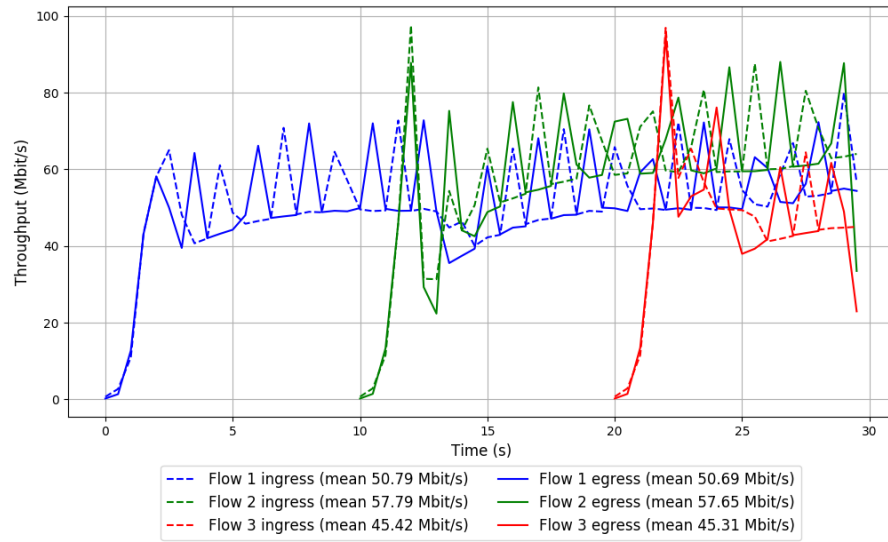
-- Flow 3:

Average throughput: 45.31 Mbit/s

95th percentile per-packet one-way delay: 121.623 ms

Loss rate: 2.49%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 21:08:44

End at: 2017-11-30 21:09:14

Below is generated by plot.py at 2017-12-01 00:44:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.49 Mbit/s

95th percentile per-packet one-way delay: 119.240 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 118.420 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 56.67 Mbit/s

95th percentile per-packet one-way delay: 122.361 ms

Loss rate: 0.81%

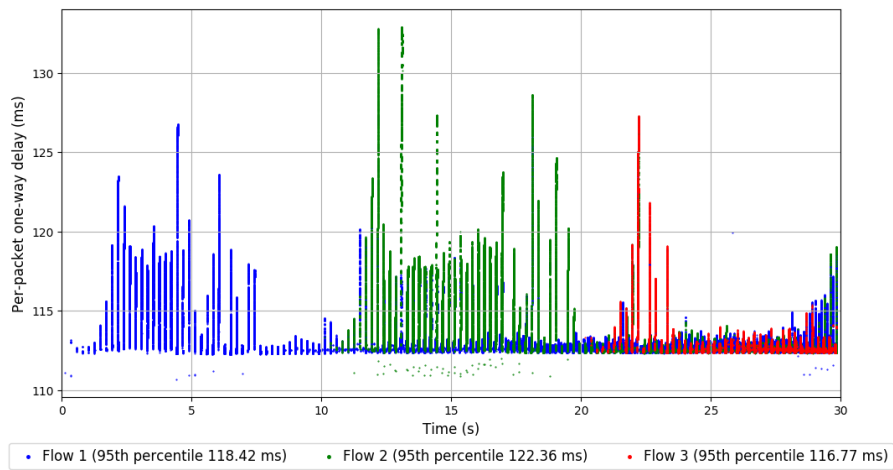
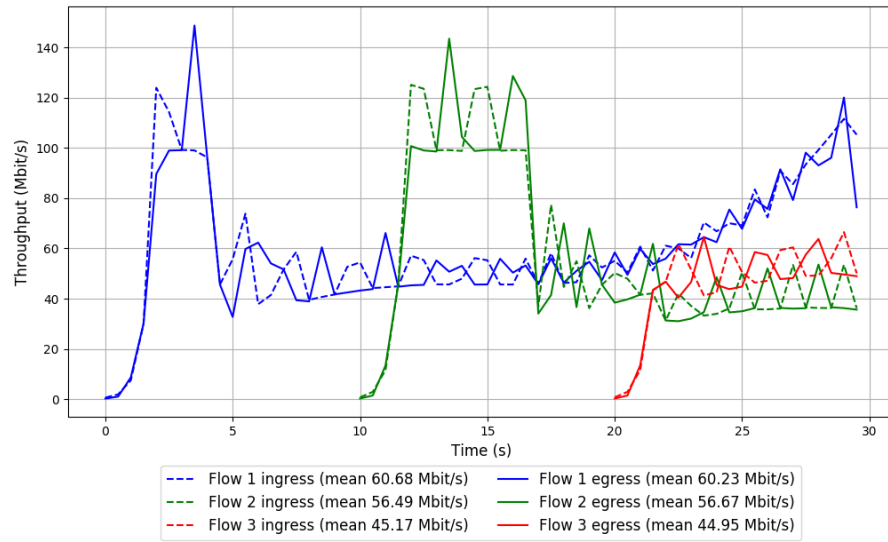
-- Flow 3:

Average throughput: 44.95 Mbit/s

95th percentile per-packet one-way delay: 116.769 ms

Loss rate: 2.76%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 21:22:21

End at: 2017-11-30 21:22:51

Below is generated by plot.py at 2017-12-01 00:44:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.69 Mbit/s

95th percentile per-packet one-way delay: 114.023 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 49.38 Mbit/s

95th percentile per-packet one-way delay: 113.134 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 48.59 Mbit/s

95th percentile per-packet one-way delay: 113.581 ms

Loss rate: 1.50%

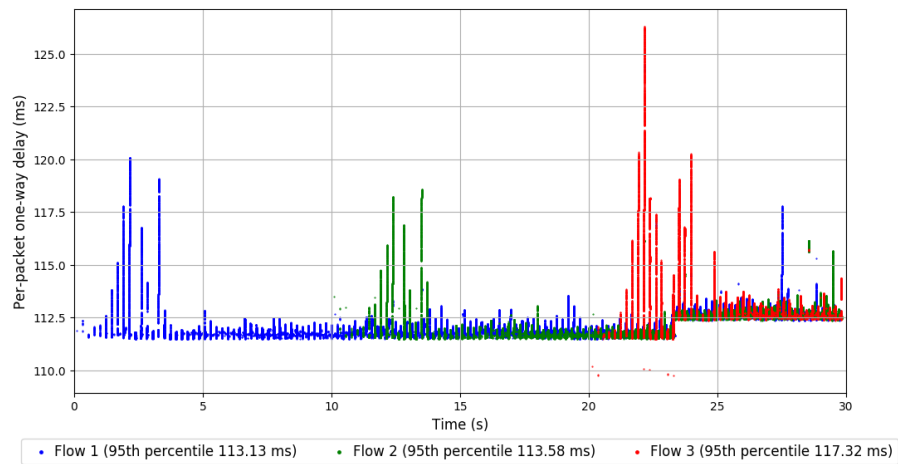
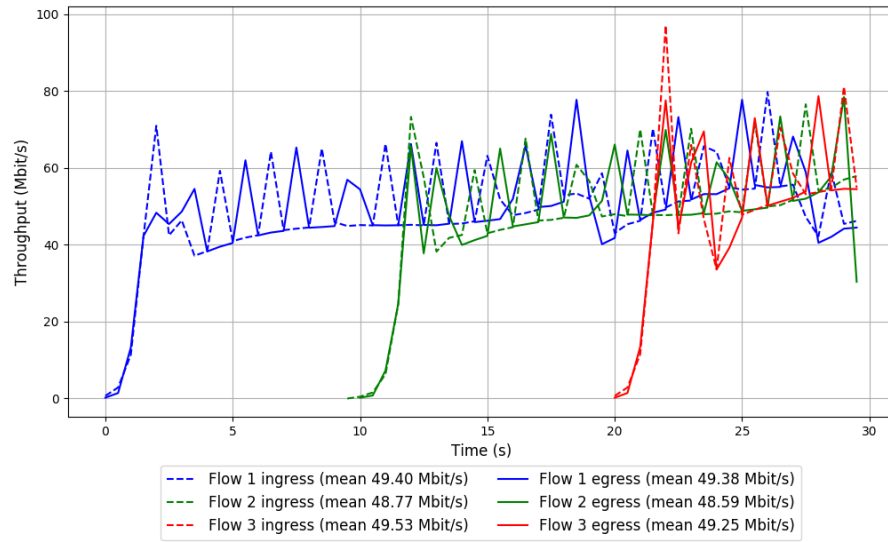
-- Flow 3:

Average throughput: 49.25 Mbit/s

95th percentile per-packet one-way delay: 117.317 ms

Loss rate: 2.79%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 21:35:54

End at: 2017-11-30 21:36:24

Below is generated by plot.py at 2017-12-01 00:45:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.58 Mbit/s

95th percentile per-packet one-way delay: 117.790 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 65.42 Mbit/s

95th percentile per-packet one-way delay: 117.334 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 117.971 ms

Loss rate: 1.13%

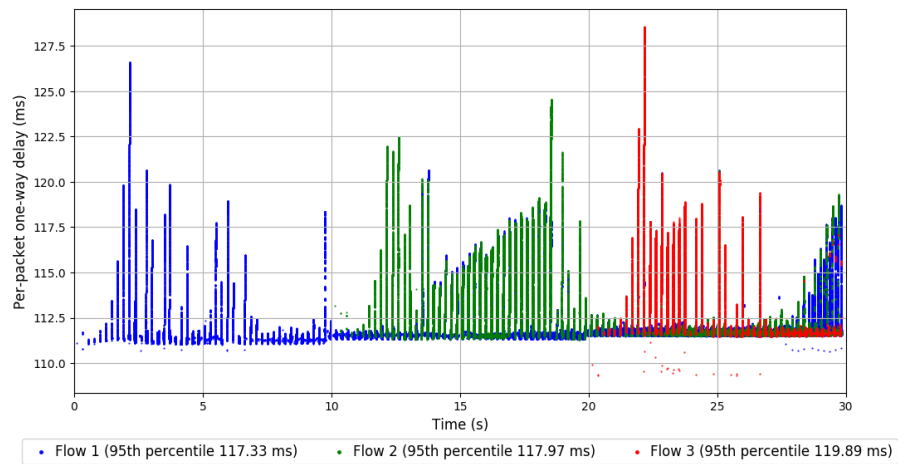
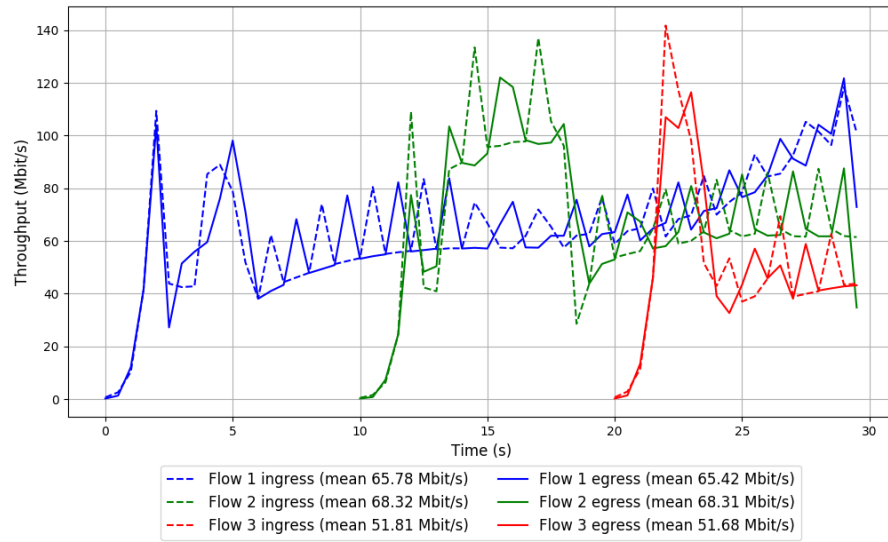
-- Flow 3:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 119.893 ms

Loss rate: 2.17%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 21:49:31

End at: 2017-11-30 21:50:01

Below is generated by plot.py at 2017-12-01 00:45:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.88 Mbit/s

95th percentile per-packet one-way delay: 116.523 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 116.100 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 117.154 ms

Loss rate: 0.96%

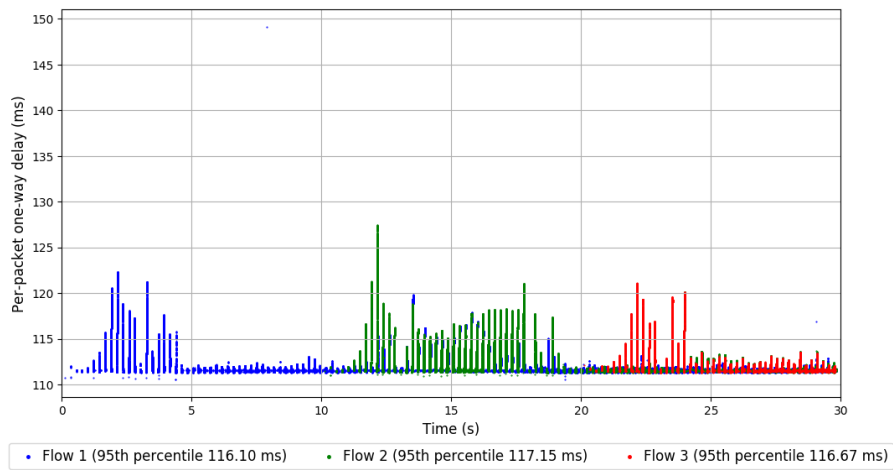
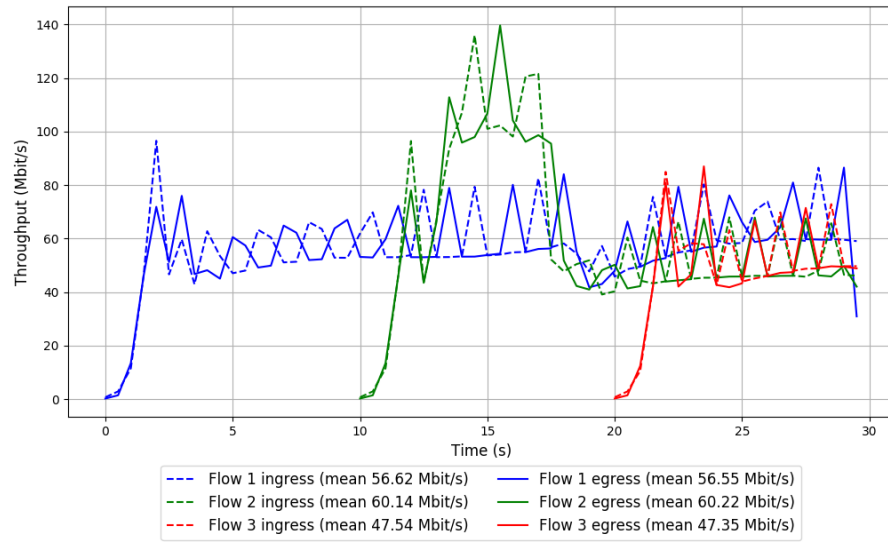
-- Flow 3:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 116.666 ms

Loss rate: 2.65%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 22:02:59

End at: 2017-11-30 22:03:29

Below is generated by plot.py at 2017-12-01 00:45:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.82 Mbit/s

95th percentile per-packet one-way delay: 115.979 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 115.608 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 116.517 ms

Loss rate: 1.00%

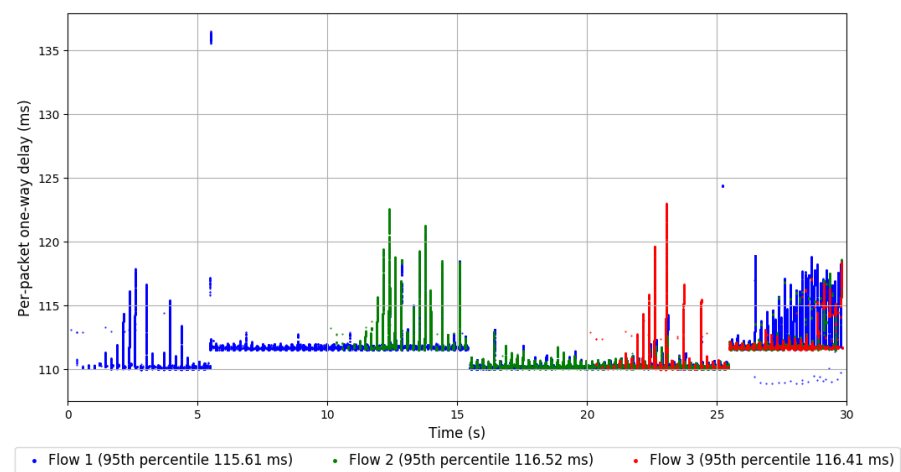
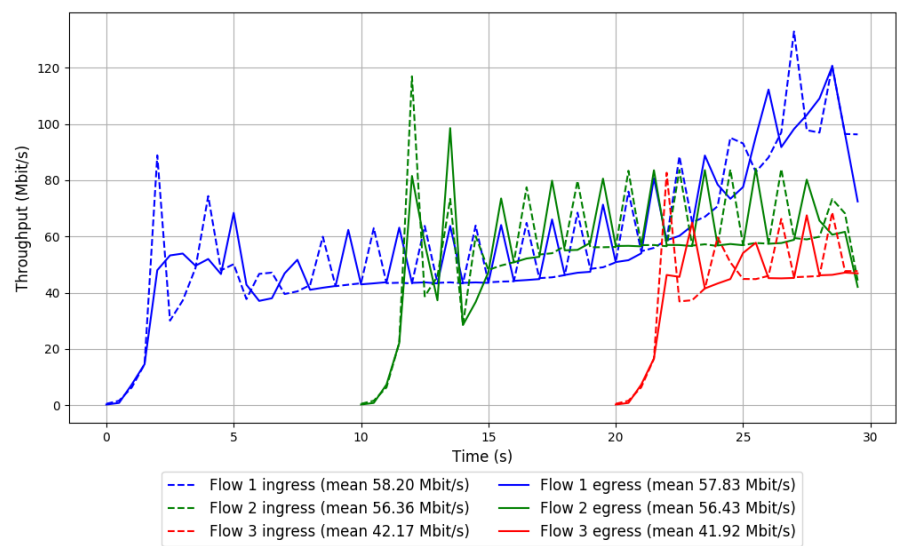
-- Flow 3:

Average throughput: 41.92 Mbit/s

95th percentile per-packet one-way delay: 116.406 ms

Loss rate: 2.86%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 22:16:42

End at: 2017-11-30 22:17:12

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.94 Mbit/s

95th percentile per-packet one-way delay: 117.572 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 69.93 Mbit/s

95th percentile per-packet one-way delay: 118.016 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 46.58 Mbit/s

95th percentile per-packet one-way delay: 117.475 ms

Loss rate: 1.21%

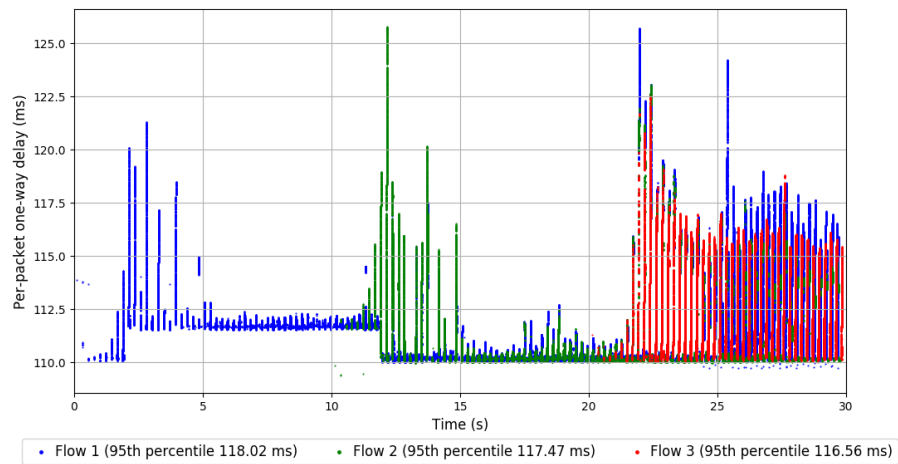
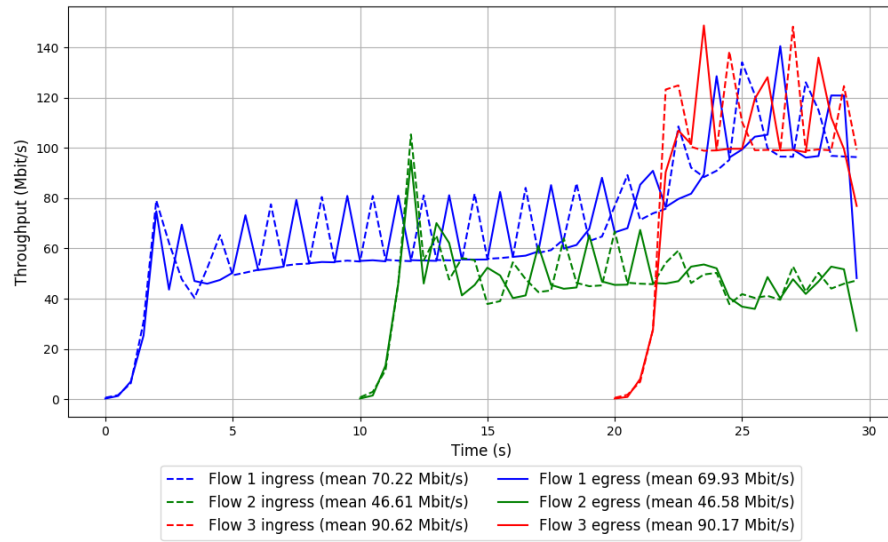
-- Flow 3:

Average throughput: 90.17 Mbit/s

95th percentile per-packet one-way delay: 116.558 ms

Loss rate: 2.63%

Run 10: Report of TCP Cubic — Data Link

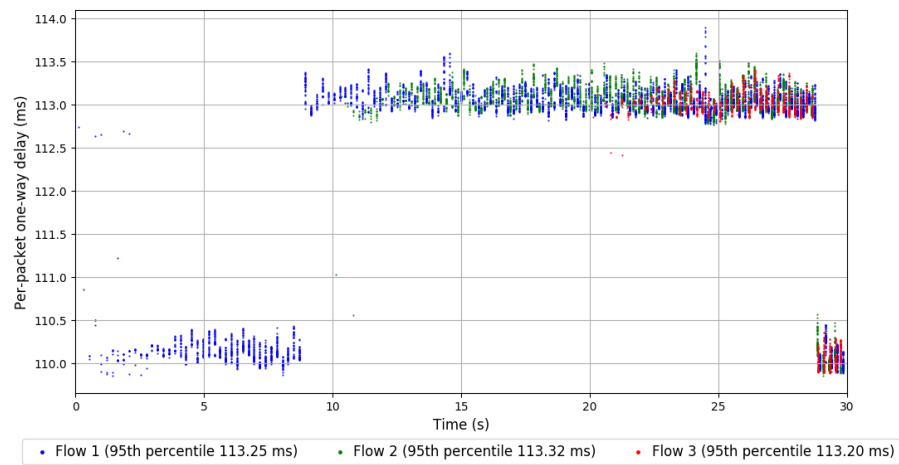
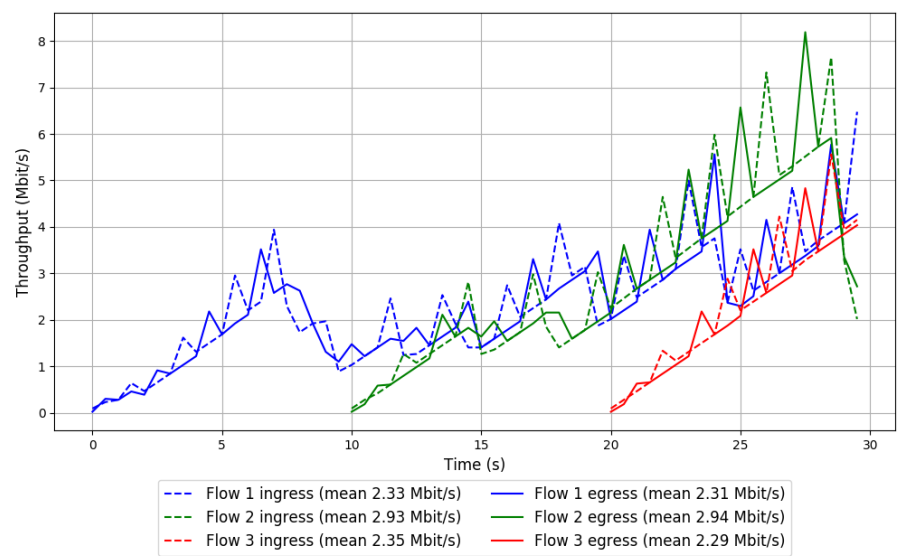


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 20:07:55
End at: 2017-11-30 20:08:25

# Below is generated by plot.py at 2017-12-01 00:45:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 113.280 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 113.247 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 113.319 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 113.205 ms
Loss rate: 4.57%
```


Run 1: Report of LEDBAT — Data Link

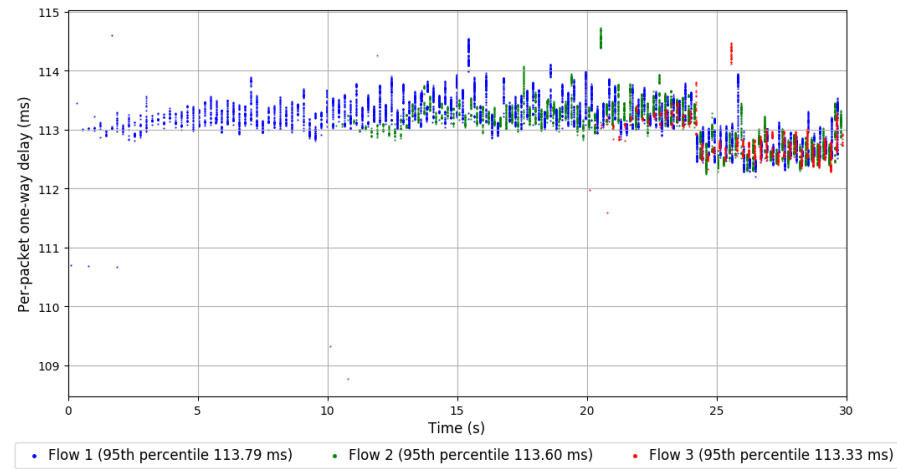
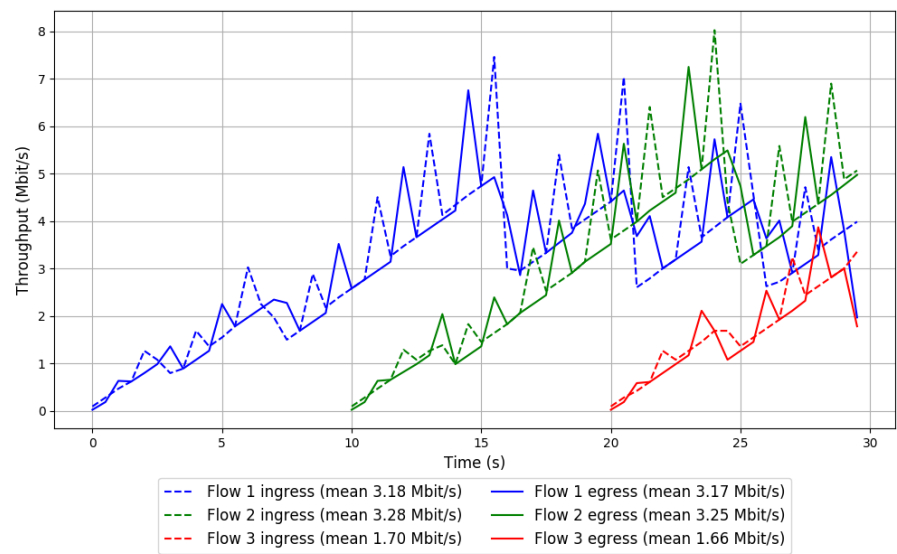


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-30 20:21:00
End at: 2017-11-30 20:21:30

# Below is generated by plot.py at 2017-12-01 00:45:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 113.757 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 113.793 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 113.598 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 113.325 ms
Loss rate: 4.64%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-30 20:34:12

End at: 2017-11-30 20:34:42

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 113.255 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 113.274 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 113.211 ms

Loss rate: 4.45%

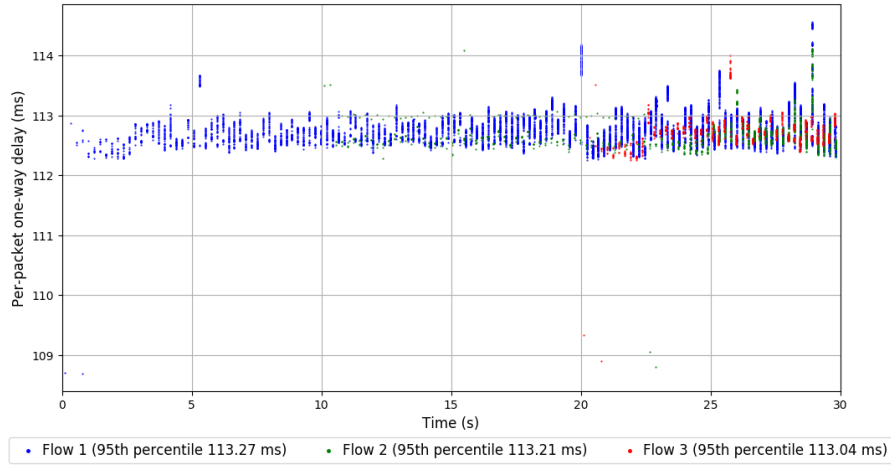
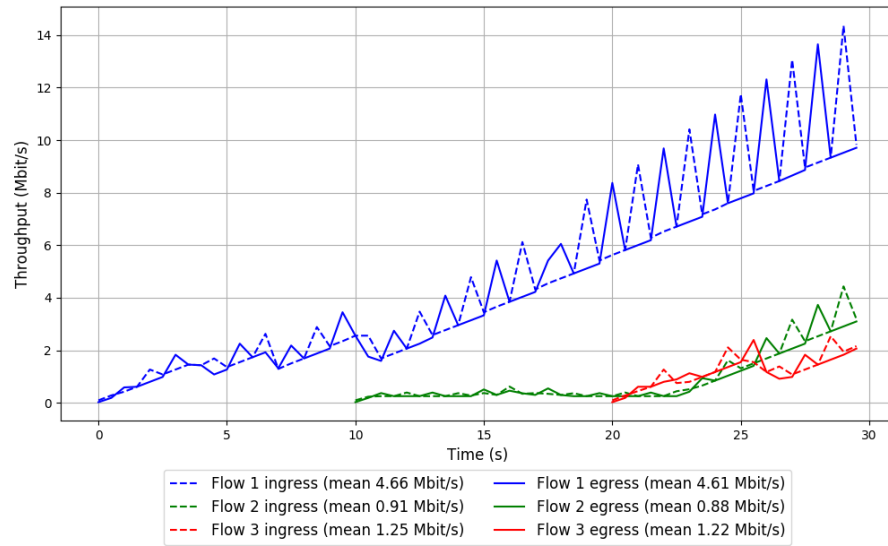
-- Flow 3:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 113.039 ms

Loss rate: 4.46%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 20:47:23

End at: 2017-11-30 20:47:53

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 113.018 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 113.024 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 113.021 ms

Loss rate: 2.57%

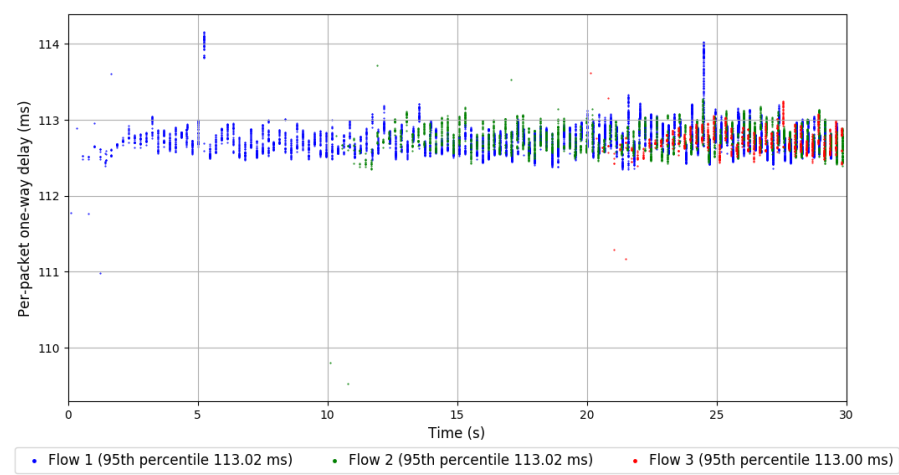
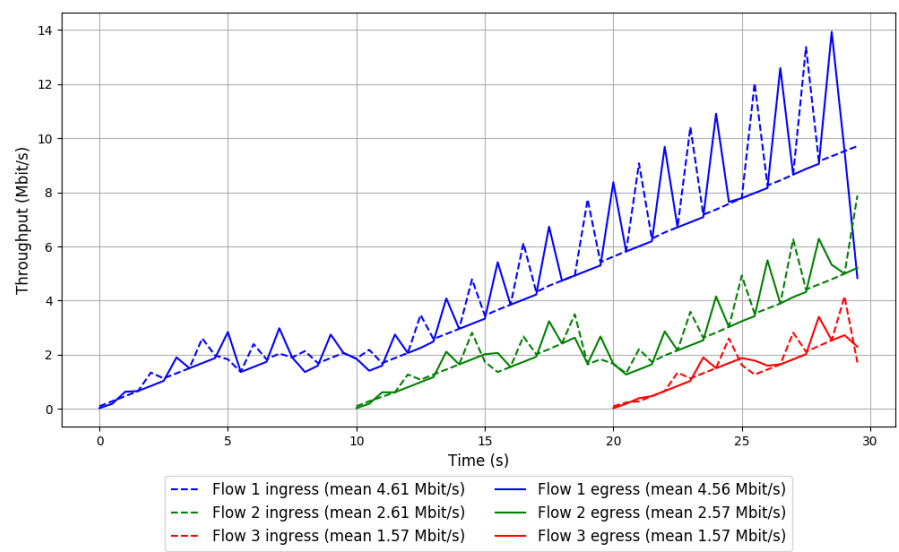
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 112.996 ms

Loss rate: 2.70%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 21:00:43

End at: 2017-11-30 21:01:13

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 113.125 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 6.98 Mbit/s

95th percentile per-packet one-way delay: 113.095 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 113.191 ms

Loss rate: 2.53%

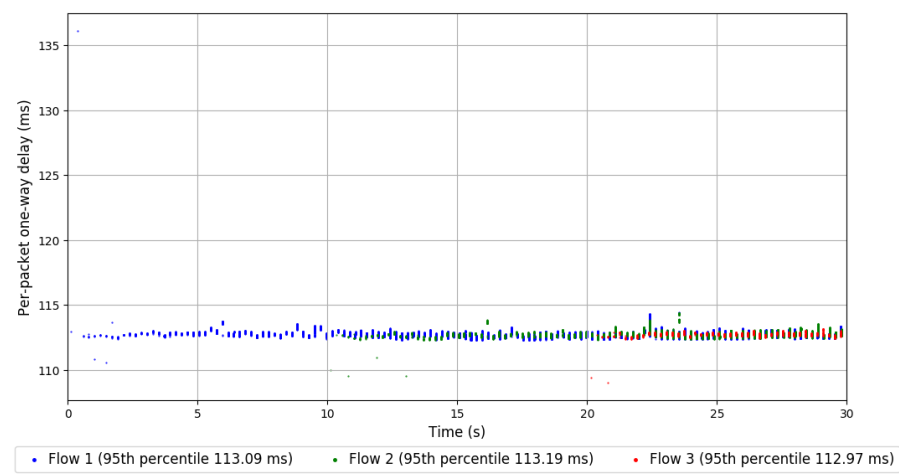
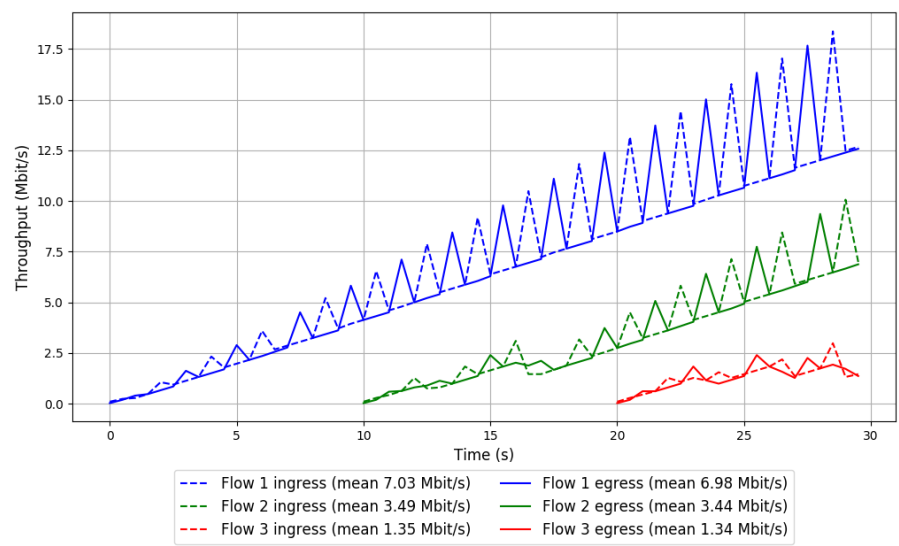
-- Flow 3:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 112.967 ms

Loss rate: 2.83%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 21:14:10

End at: 2017-11-30 21:14:40

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 113.297 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 113.302 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 113.405 ms

Loss rate: 2.50%

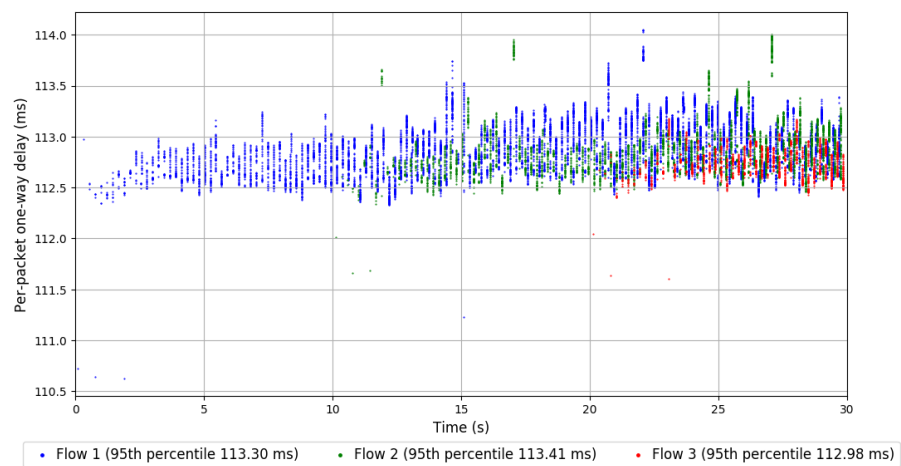
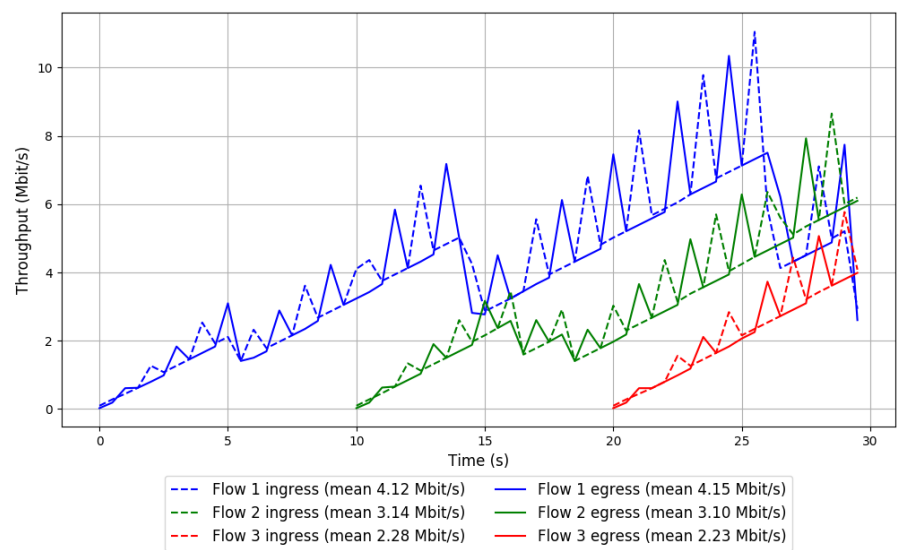
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 112.976 ms

Loss rate: 4.56%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 21:27:44

End at: 2017-11-30 21:28:14

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.40 Mbit/s

95th percentile per-packet one-way delay: 112.062 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 112.080 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 112.037 ms

Loss rate: 2.18%

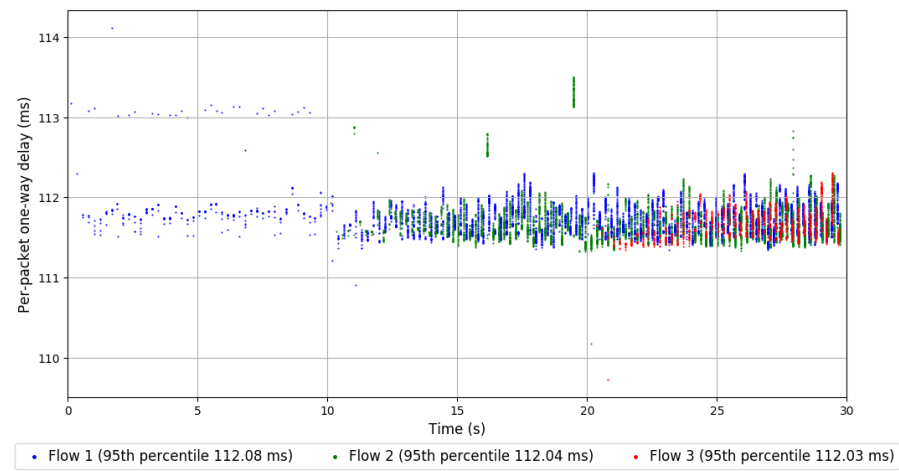
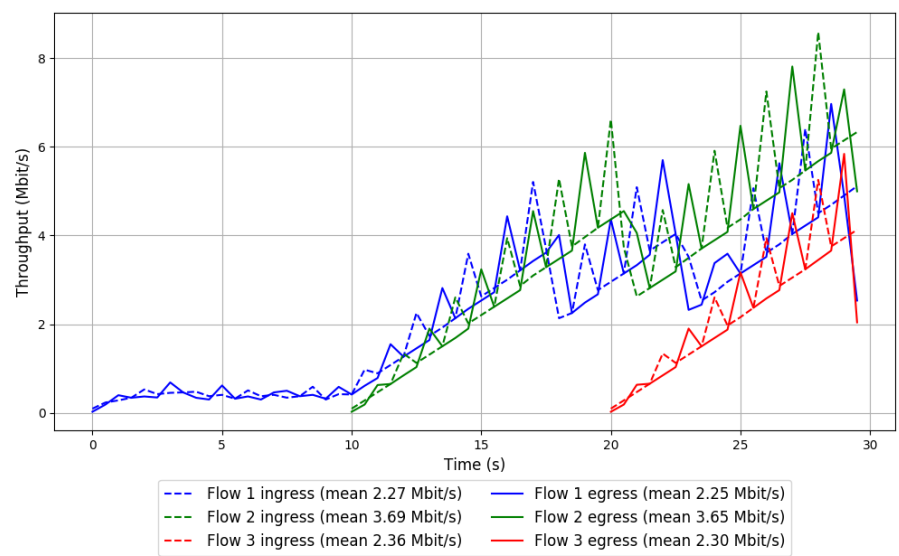
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 112.027 ms

Loss rate: 4.53%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 21:41:21

End at: 2017-11-30 21:41:51

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 112.187 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 112.178 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 112.222 ms

Loss rate: 2.06%

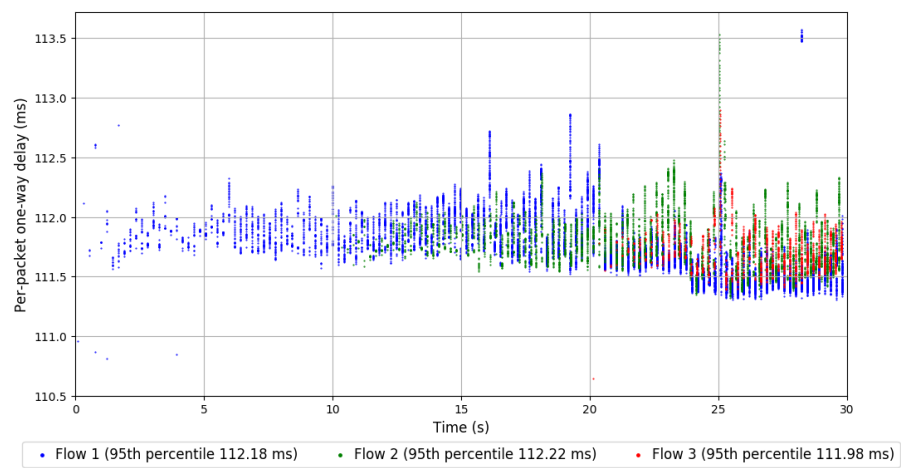
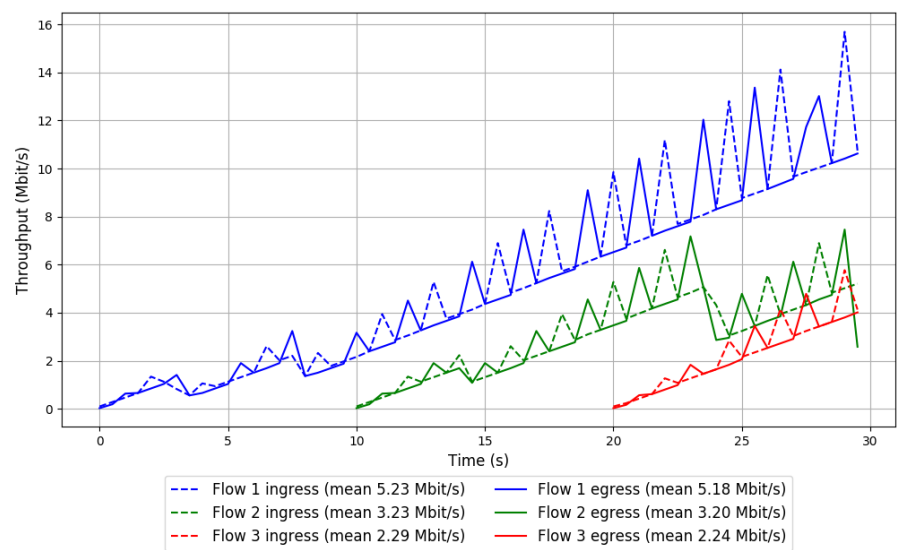
-- Flow 3:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 111.983 ms

Loss rate: 4.61%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 21:54:54

End at: 2017-11-30 21:55:24

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 111.971 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 112.447 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 111.957 ms

Loss rate: 2.26%

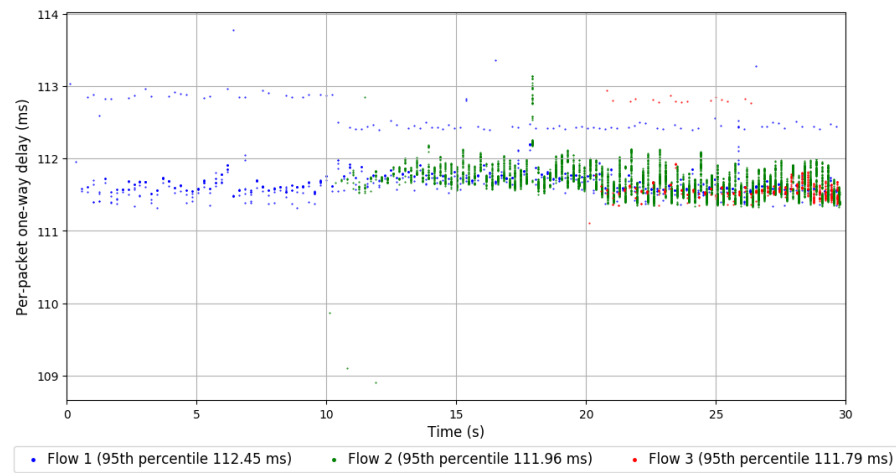
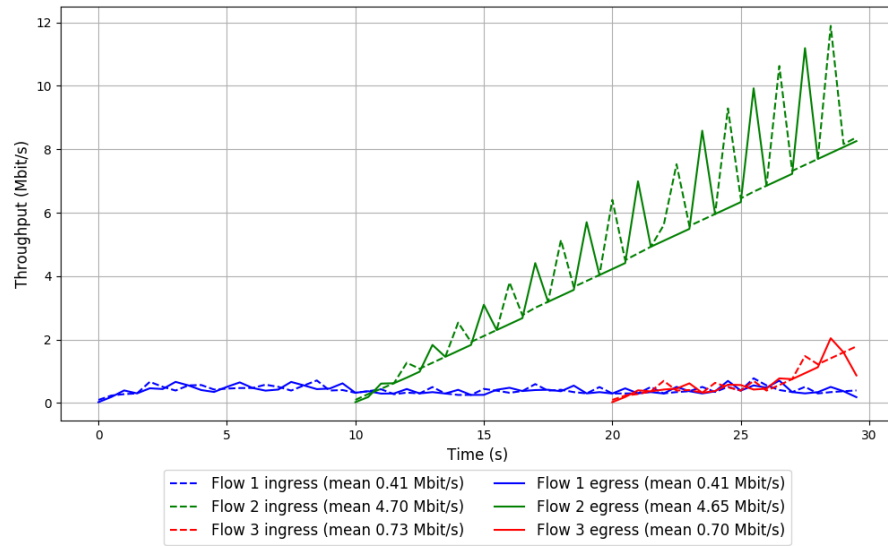
-- Flow 3:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 111.789 ms

Loss rate: 6.45%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-30 22:08:23

End at: 2017-11-30 22:08:53

Below is generated by plot.py at 2017-12-01 00:45:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.92 Mbit/s

95th percentile per-packet one-way delay: 112.219 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 112.173 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 112.273 ms

Loss rate: 2.32%

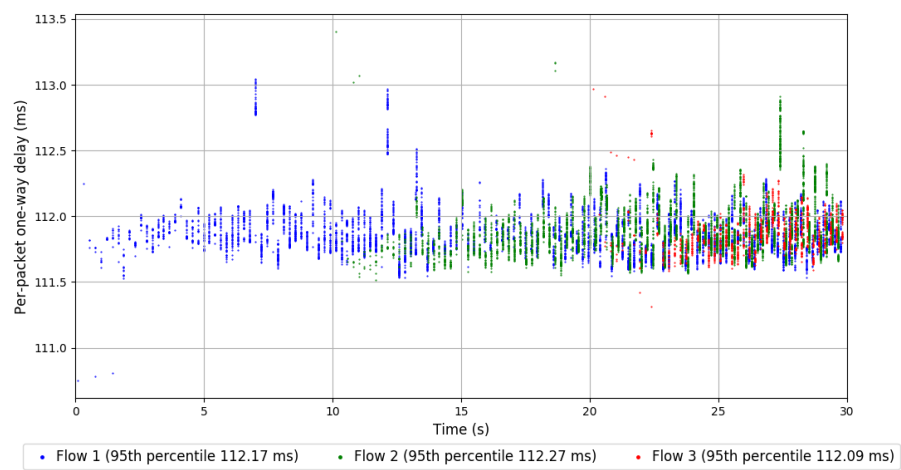
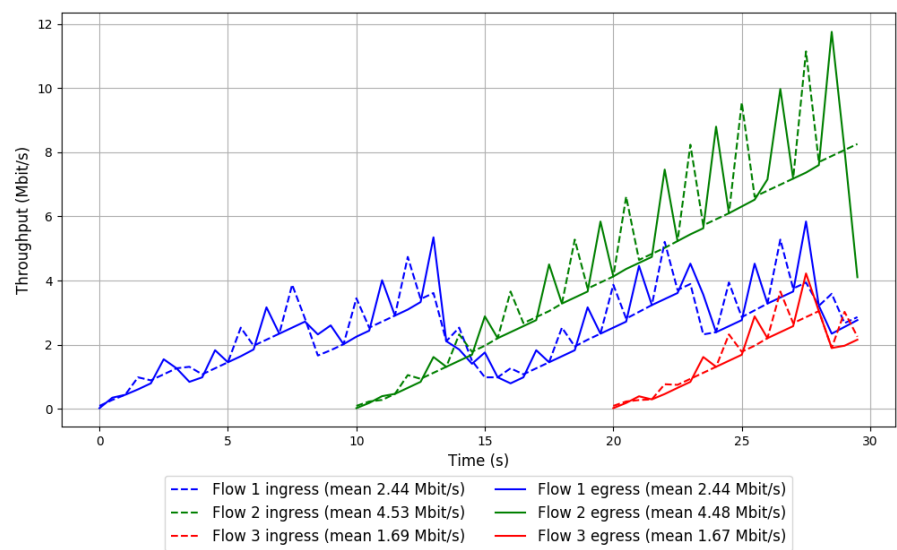
-- Flow 3:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 112.093 ms

Loss rate: 3.43%

Run 10: Report of LEDBAT — Data Link

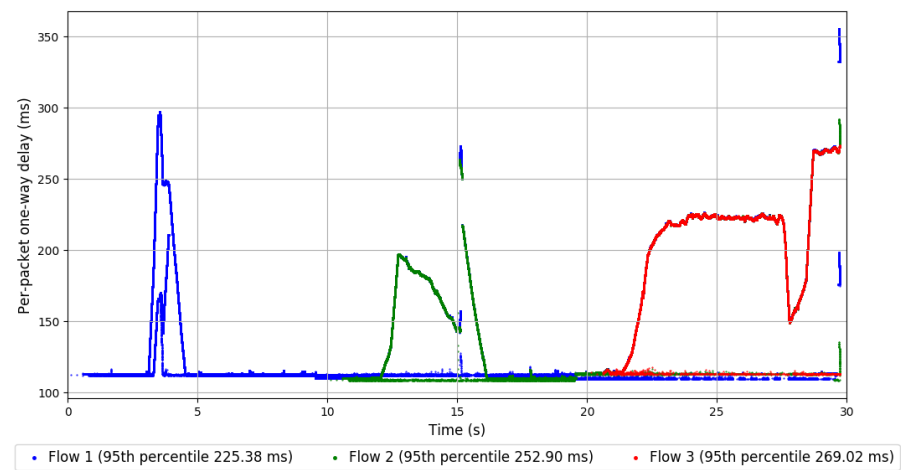
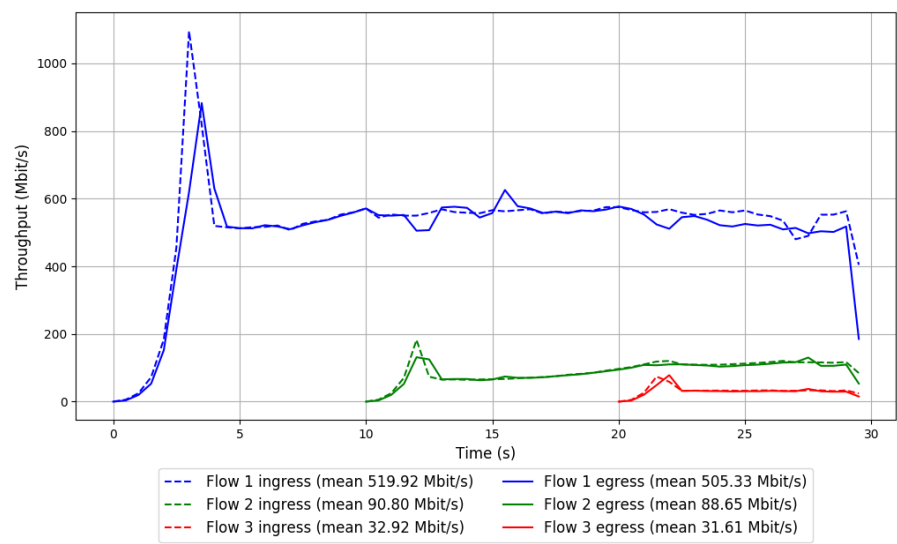


```
Run 1: Statistics of PCC

Start at: 2017-11-30 20:14:25
End at: 2017-11-30 20:14:55

# Below is generated by plot.py at 2017-12-01 00:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.27 Mbit/s
95th percentile per-packet one-way delay: 225.664 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 505.33 Mbit/s
95th percentile per-packet one-way delay: 225.379 ms
Loss rate: 3.54%
-- Flow 2:
Average throughput: 88.65 Mbit/s
95th percentile per-packet one-way delay: 252.903 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 269.021 ms
Loss rate: 6.22%
```

Run 1: Report of PCC — Data Link

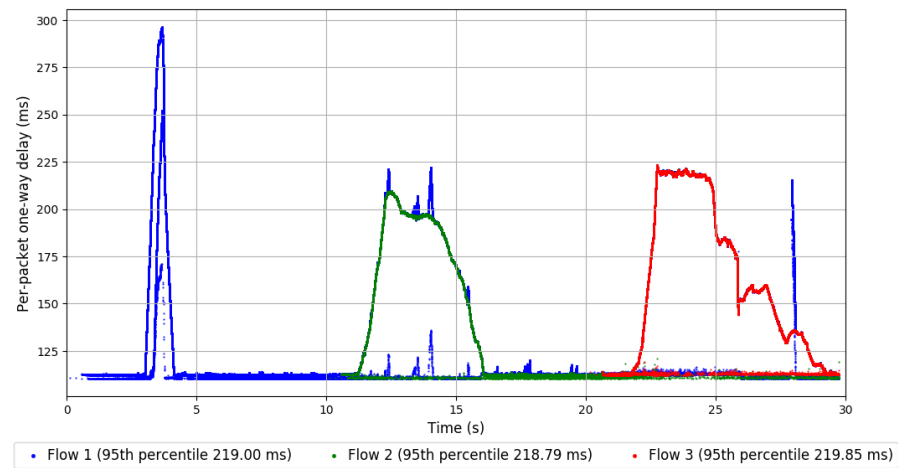
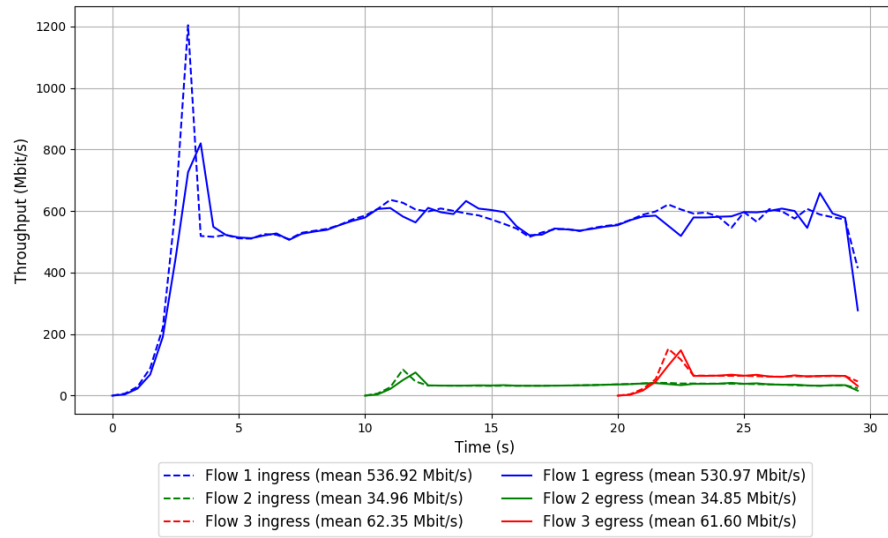


```
Run 2: Statistics of PCC

Start at: 2017-11-30 20:27:38
End at: 2017-11-30 20:28:08

# Below is generated by plot.py at 2017-12-01 00:53:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 573.85 Mbit/s
95th percentile per-packet one-way delay: 219.135 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 530.97 Mbit/s
95th percentile per-packet one-way delay: 219.005 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 34.85 Mbit/s
95th percentile per-packet one-way delay: 218.793 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 61.60 Mbit/s
95th percentile per-packet one-way delay: 219.850 ms
Loss rate: 3.50%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 20:40:49

End at: 2017-11-30 20:41:19

Below is generated by plot.py at 2017-12-01 00:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.23 Mbit/s

95th percentile per-packet one-way delay: 228.737 ms

Loss rate: 5.72%

-- Flow 1:

Average throughput: 514.21 Mbit/s

95th percentile per-packet one-way delay: 228.841 ms

Loss rate: 5.78%

-- Flow 2:

Average throughput: 60.83 Mbit/s

95th percentile per-packet one-way delay: 228.220 ms

Loss rate: 4.96%

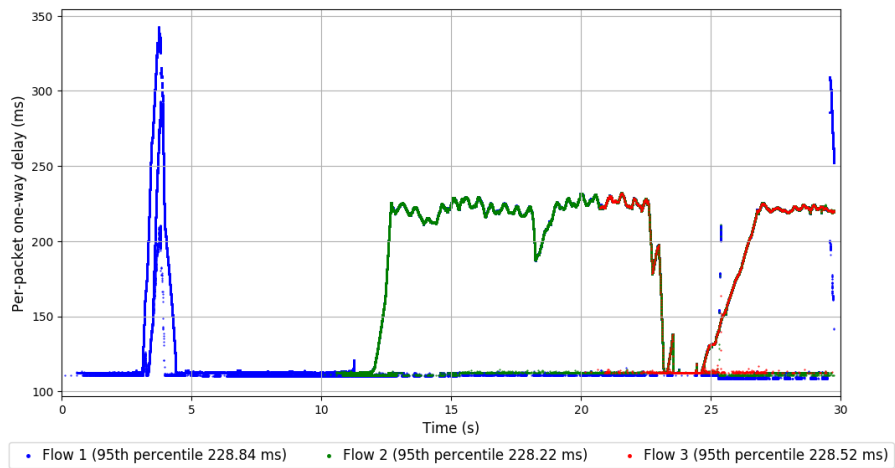
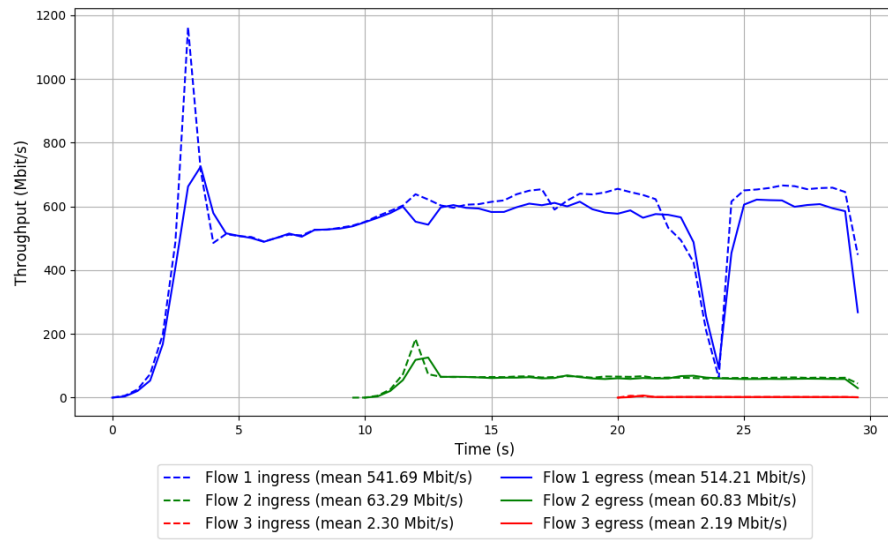
-- Flow 3:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 228.517 ms

Loss rate: 6.68%

Run 3: Report of PCC — Data Link

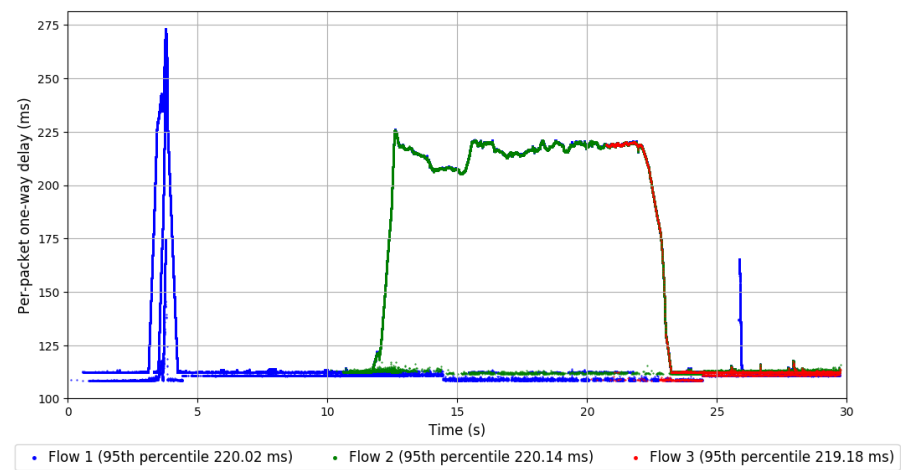
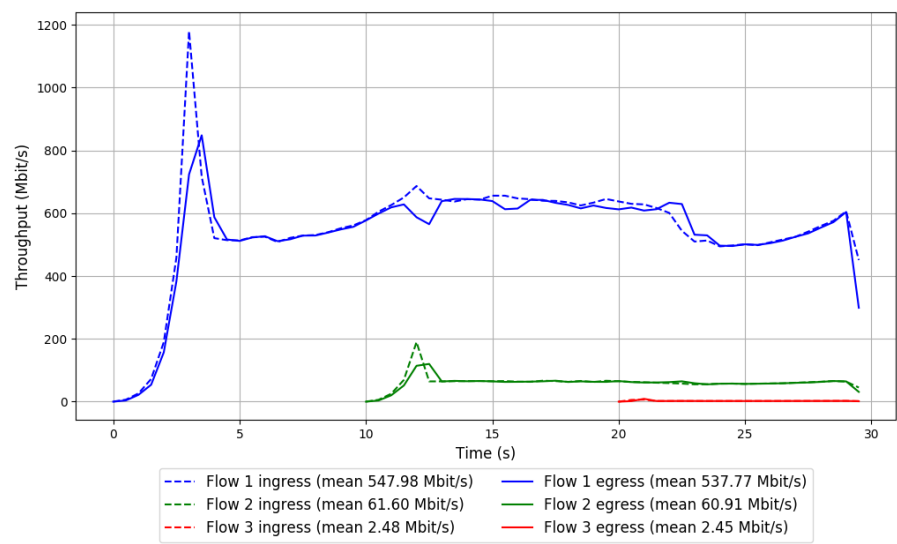


```
Run 4: Statistics of PCC

Start at: 2017-11-30 20:54:10
End at: 2017-11-30 20:54:40

# Below is generated by plot.py at 2017-12-01 00:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.83 Mbit/s
95th percentile per-packet one-way delay: 220.031 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 537.77 Mbit/s
95th percentile per-packet one-way delay: 220.023 ms
Loss rate: 2.59%
-- Flow 2:
Average throughput: 60.91 Mbit/s
95th percentile per-packet one-way delay: 220.144 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 219.180 ms
Loss rate: 3.36%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-30 21:07:33

End at: 2017-11-30 21:08:03

Below is generated by plot.py at 2017-12-01 00:53:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 560.80 Mbit/s

95th percentile per-packet one-way delay: 234.180 ms

Loss rate: 4.82%

-- Flow 1:

Average throughput: 478.55 Mbit/s

95th percentile per-packet one-way delay: 234.295 ms

Loss rate: 4.87%

-- Flow 2:

Average throughput: 123.08 Mbit/s

95th percentile per-packet one-way delay: 233.858 ms

Loss rate: 4.52%

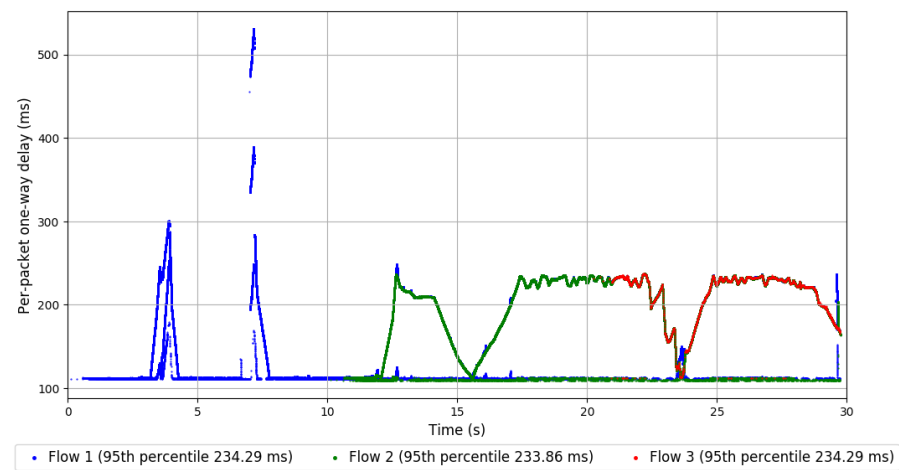
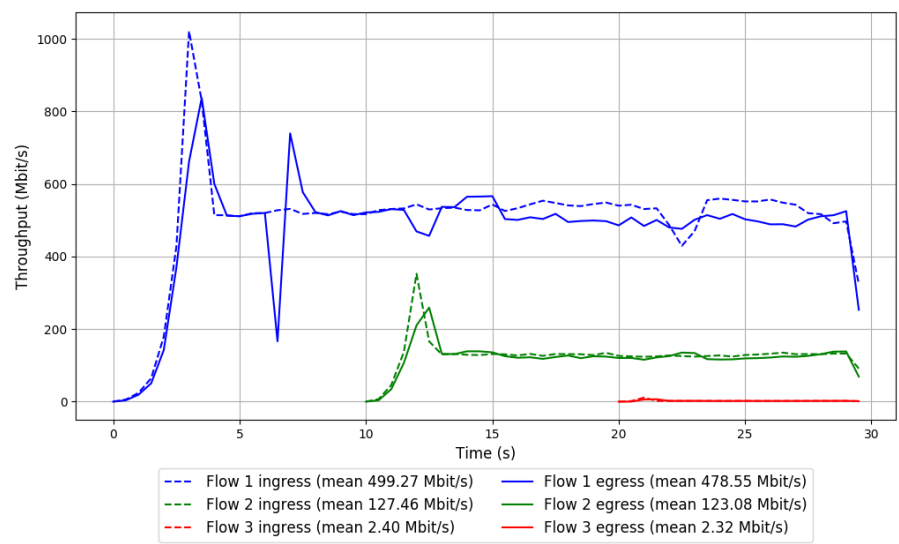
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 234.291 ms

Loss rate: 6.76%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-30 21:21:09

End at: 2017-11-30 21:21:39

Below is generated by plot.py at 2017-12-01 00:53:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 579.26 Mbit/s

95th percentile per-packet one-way delay: 231.441 ms

Loss rate: 3.35%

-- Flow 1:

Average throughput: 487.90 Mbit/s

95th percentile per-packet one-way delay: 231.433 ms

Loss rate: 3.34%

-- Flow 2:

Average throughput: 129.84 Mbit/s

95th percentile per-packet one-way delay: 231.370 ms

Loss rate: 3.34%

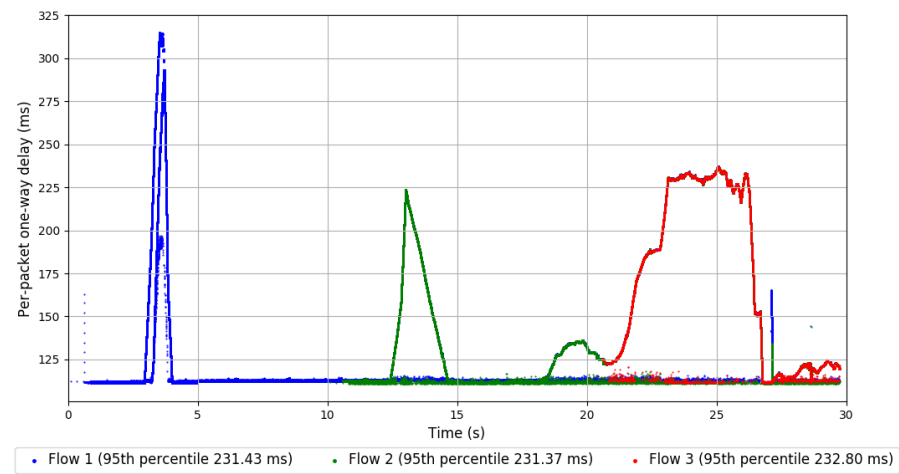
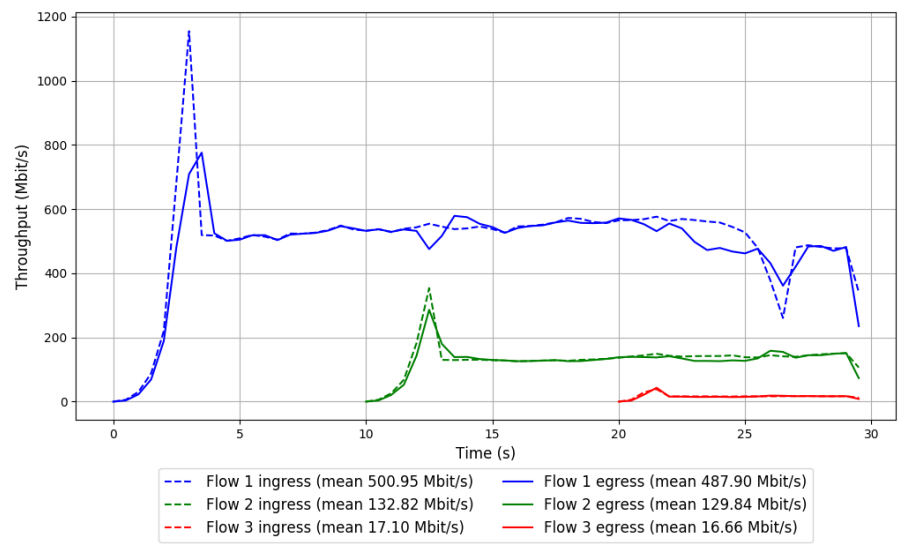
-- Flow 3:

Average throughput: 16.66 Mbit/s

95th percentile per-packet one-way delay: 232.801 ms

Loss rate: 4.79%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 21:34:44

End at: 2017-11-30 21:35:14

Below is generated by plot.py at 2017-12-01 00:53:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 562.10 Mbit/s

95th percentile per-packet one-way delay: 229.812 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 540.56 Mbit/s

95th percentile per-packet one-way delay: 229.773 ms

Loss rate: 2.26%

-- Flow 2:

Average throughput: 31.38 Mbit/s

95th percentile per-packet one-way delay: 230.426 ms

Loss rate: 1.75%

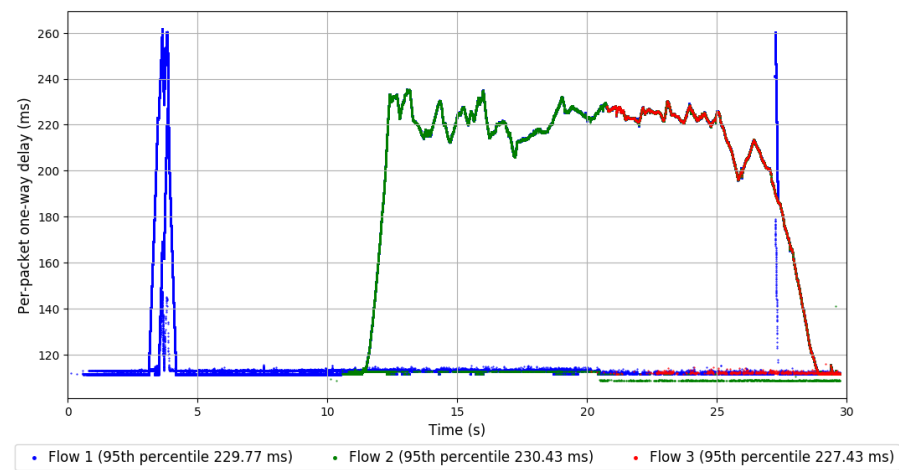
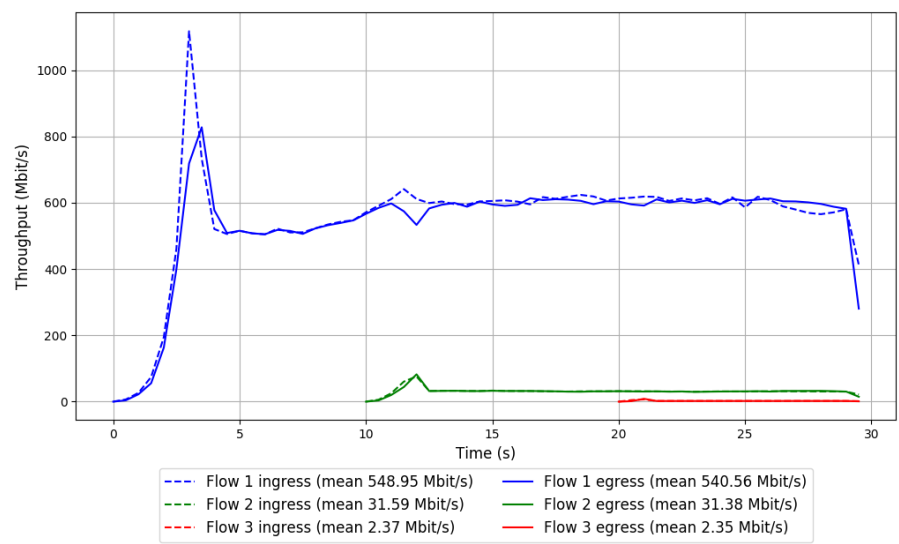
-- Flow 3:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 227.429 ms

Loss rate: 3.28%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 21:48:20

End at: 2017-11-30 21:48:50

Below is generated by plot.py at 2017-12-01 00:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 576.46 Mbit/s

95th percentile per-packet one-way delay: 207.670 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 551.86 Mbit/s

95th percentile per-packet one-way delay: 208.190 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 199.146 ms

Loss rate: 1.39%

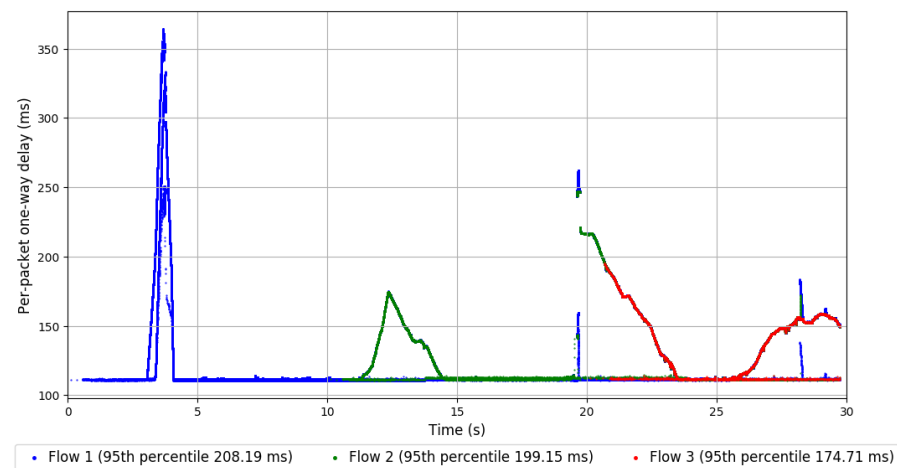
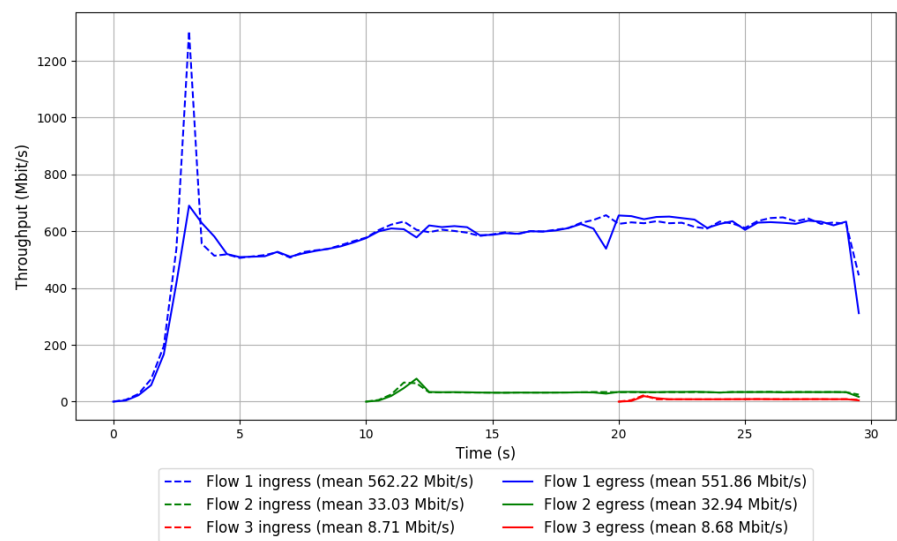
-- Flow 3:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 174.709 ms

Loss rate: 2.71%

Run 8: Report of PCC — Data Link

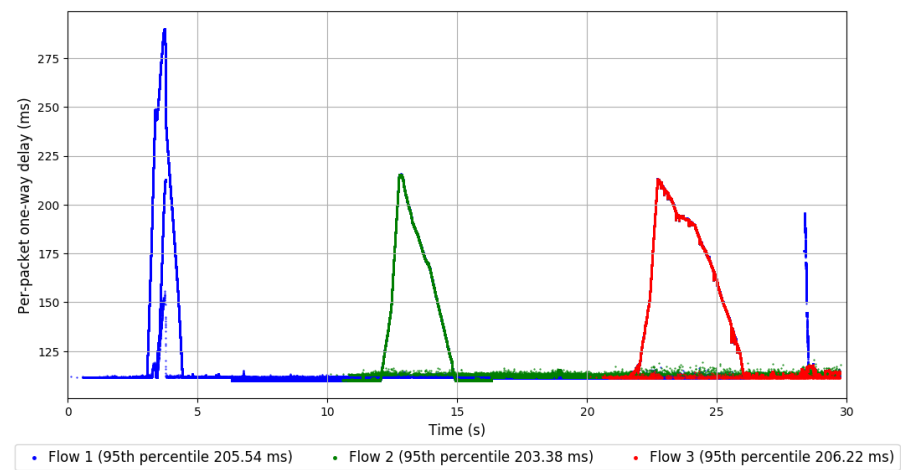
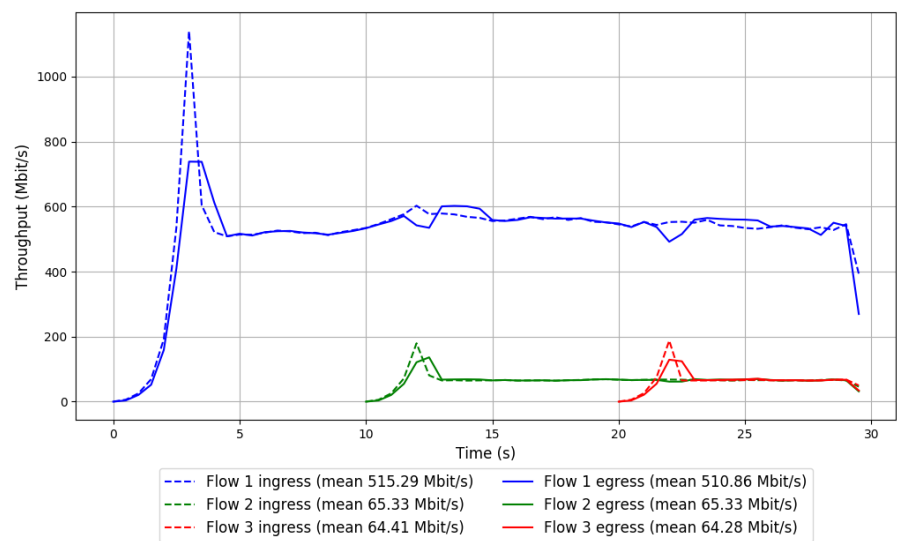


```
Run 9: Statistics of PCC

Start at: 2017-11-30 22:01:48
End at: 2017-11-30 22:02:18

# Below is generated by plot.py at 2017-12-01 01:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.92 Mbit/s
95th percentile per-packet one-way delay: 205.363 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 510.86 Mbit/s
95th percentile per-packet one-way delay: 205.536 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 65.33 Mbit/s
95th percentile per-packet one-way delay: 203.377 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 64.28 Mbit/s
95th percentile per-packet one-way delay: 206.220 ms
Loss rate: 2.48%
```

Run 9: Report of PCC — Data Link

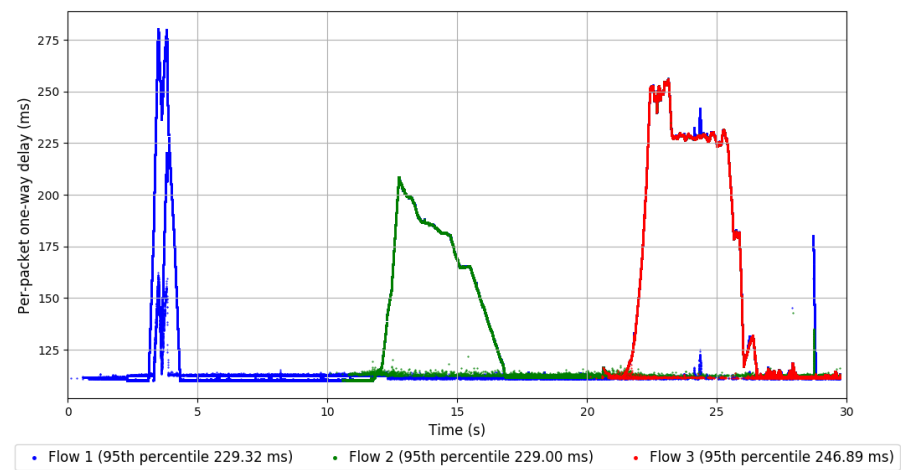
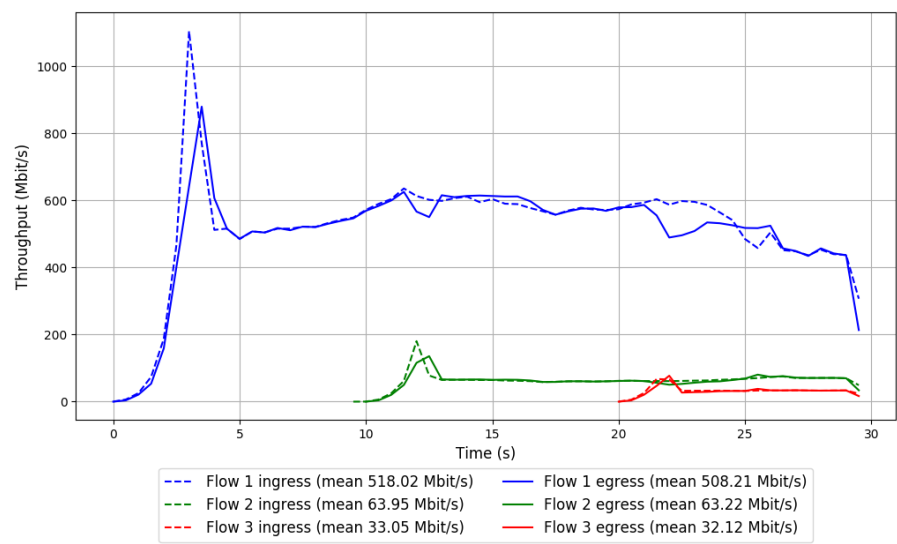


```
Run 10: Statistics of PCC

Start at: 2017-11-30 22:15:32
End at: 2017-11-30 22:16:02

# Below is generated by plot.py at 2017-12-01 01:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.45 Mbit/s
95th percentile per-packet one-way delay: 229.379 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 508.21 Mbit/s
95th percentile per-packet one-way delay: 229.321 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 63.22 Mbit/s
95th percentile per-packet one-way delay: 229.001 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 246.891 ms
Loss rate: 5.07%
```

Run 10: Report of PCC — Data Link

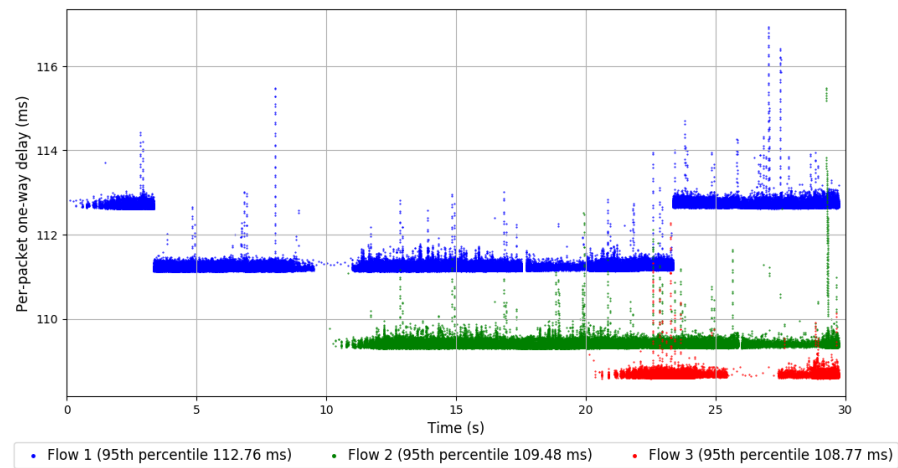
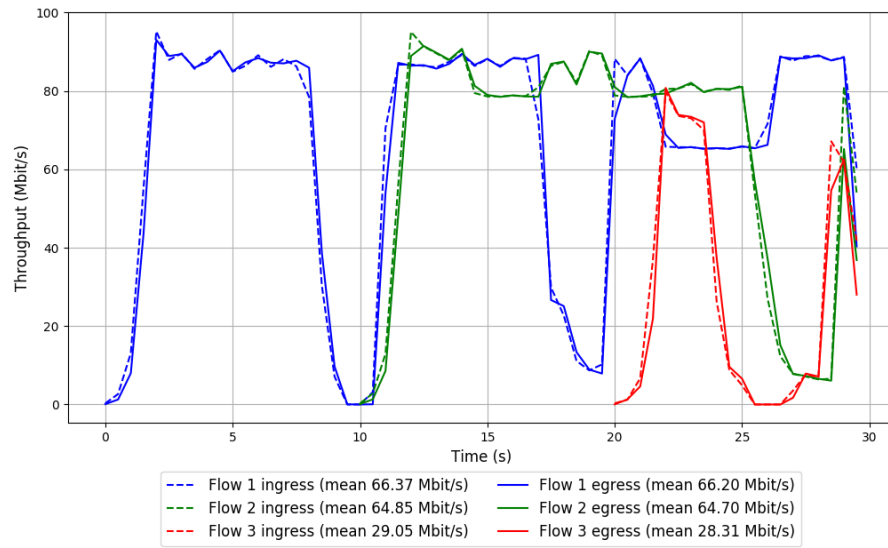


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 20:13:31
End at: 2017-11-30 20:14:01

# Below is generated by plot.py at 2017-12-01 01:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.22 Mbit/s
95th percentile per-packet one-way delay: 112.719 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 66.20 Mbit/s
95th percentile per-packet one-way delay: 112.757 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 64.70 Mbit/s
95th percentile per-packet one-way delay: 109.482 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 28.31 Mbit/s
95th percentile per-packet one-way delay: 108.767 ms
Loss rate: 4.74%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 20:26:44

End at: 2017-11-30 20:27:14

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.54 Mbit/s

95th percentile per-packet one-way delay: 112.693 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 112.296 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 61.45 Mbit/s

95th percentile per-packet one-way delay: 112.757 ms

Loss rate: 0.14%

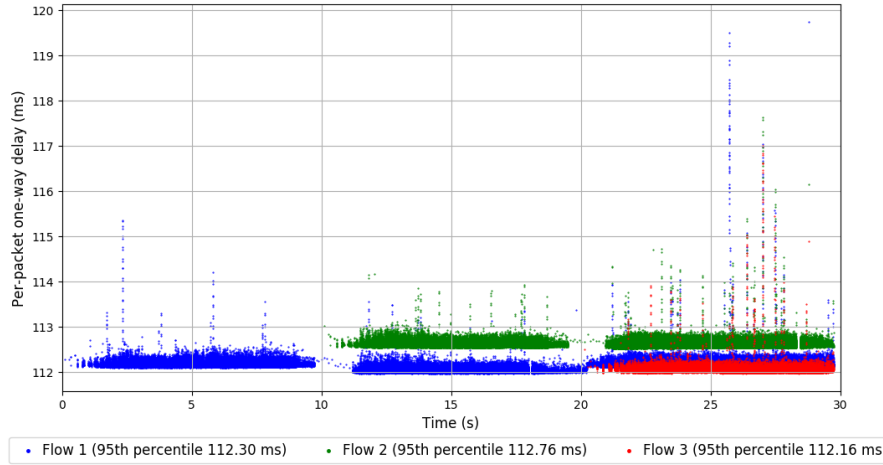
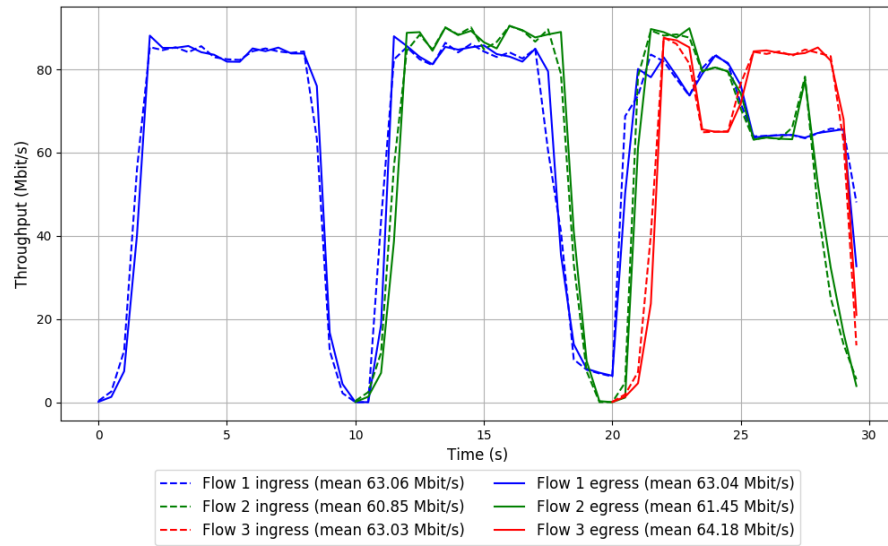
-- Flow 3:

Average throughput: 64.18 Mbit/s

95th percentile per-packet one-way delay: 112.158 ms

Loss rate: 0.52%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 20:39:55

End at: 2017-11-30 20:40:25

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.02 Mbit/s

95th percentile per-packet one-way delay: 112.416 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 112.453 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 61.15 Mbit/s

95th percentile per-packet one-way delay: 109.547 ms

Loss rate: 0.12%

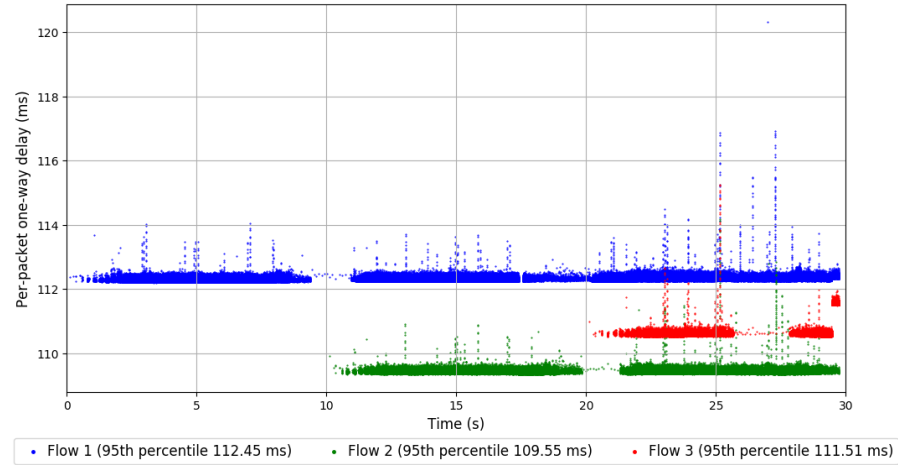
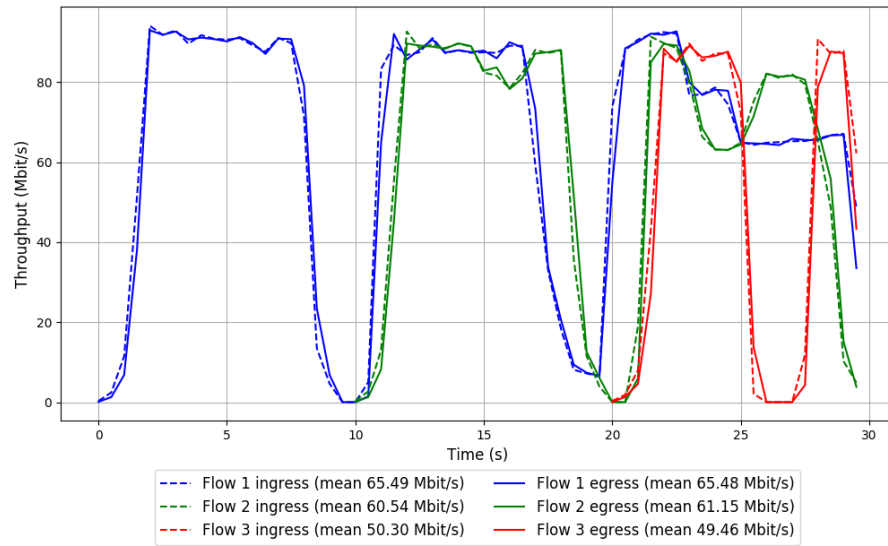
-- Flow 3:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 111.514 ms

Loss rate: 3.89%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 20:53:15

End at: 2017-11-30 20:53:45

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.30 Mbit/s

95th percentile per-packet one-way delay: 110.494 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 62.94 Mbit/s

95th percentile per-packet one-way delay: 108.740 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 69.84 Mbit/s

95th percentile per-packet one-way delay: 110.491 ms

Loss rate: 1.42%

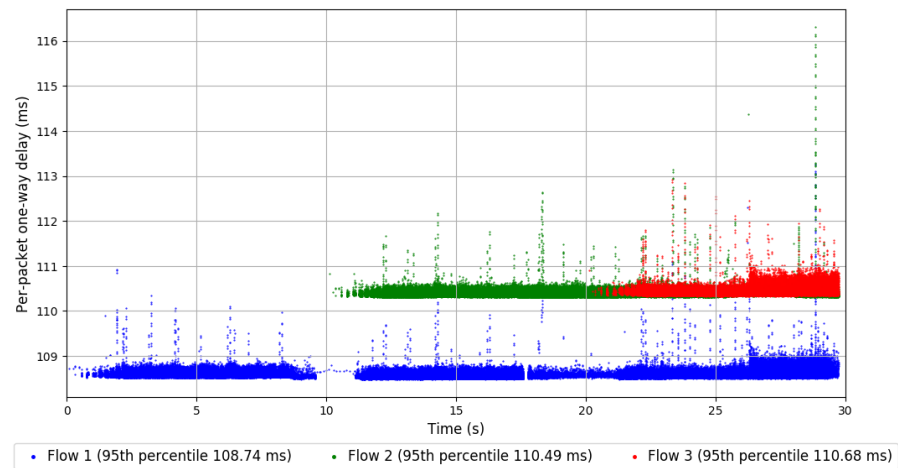
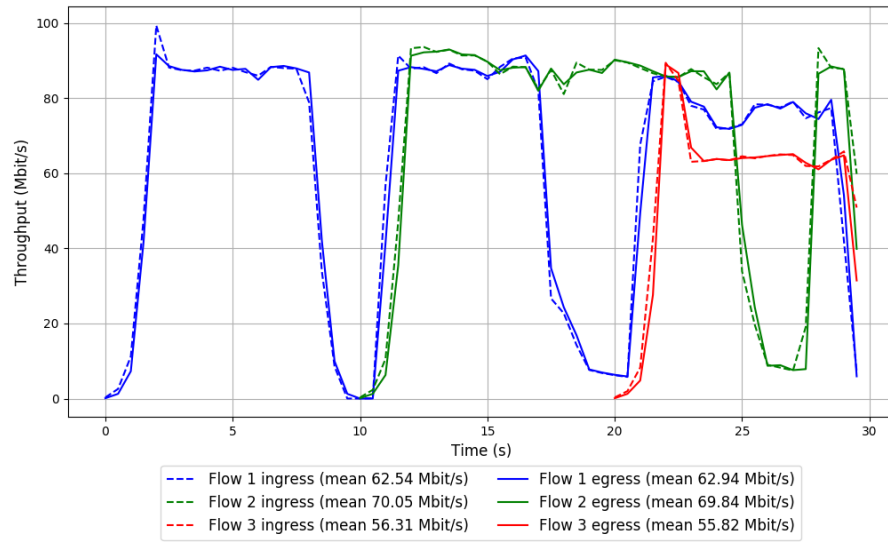
-- Flow 3:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 110.680 ms

Loss rate: 3.12%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 21:06:38

End at: 2017-11-30 21:07:08

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.75 Mbit/s

95th percentile per-packet one-way delay: 112.291 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 70.78 Mbit/s

95th percentile per-packet one-way delay: 112.329 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 111.034 ms

Loss rate: 1.18%

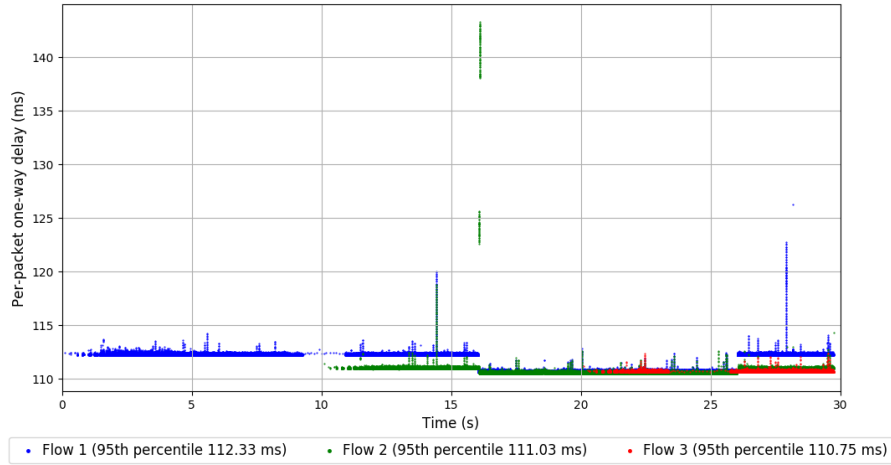
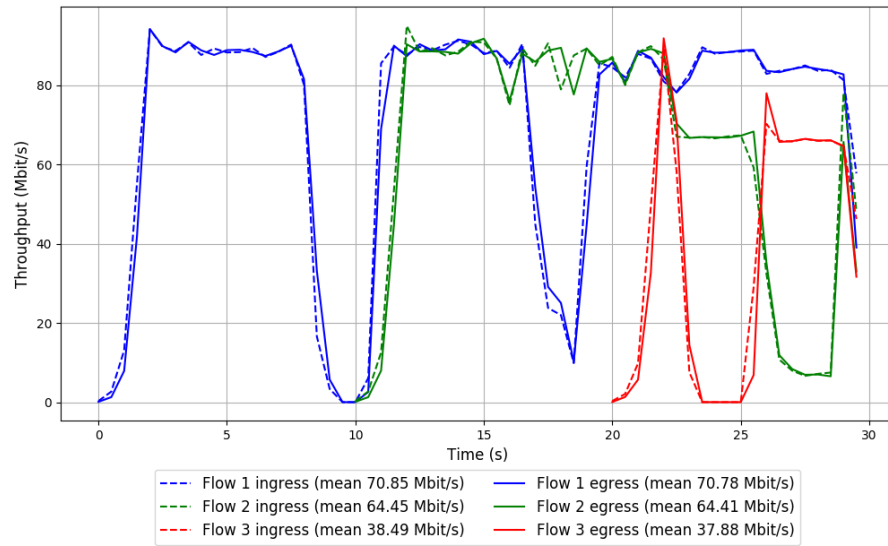
-- Flow 3:

Average throughput: 37.88 Mbit/s

95th percentile per-packet one-way delay: 110.754 ms

Loss rate: 3.82%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 21:20:14

End at: 2017-11-30 21:20:44

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.68 Mbit/s

95th percentile per-packet one-way delay: 113.009 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 111.556 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 1.47%

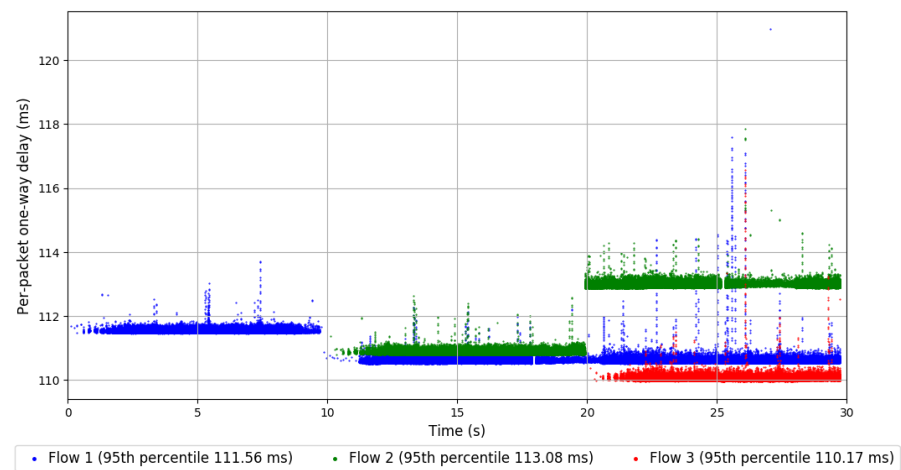
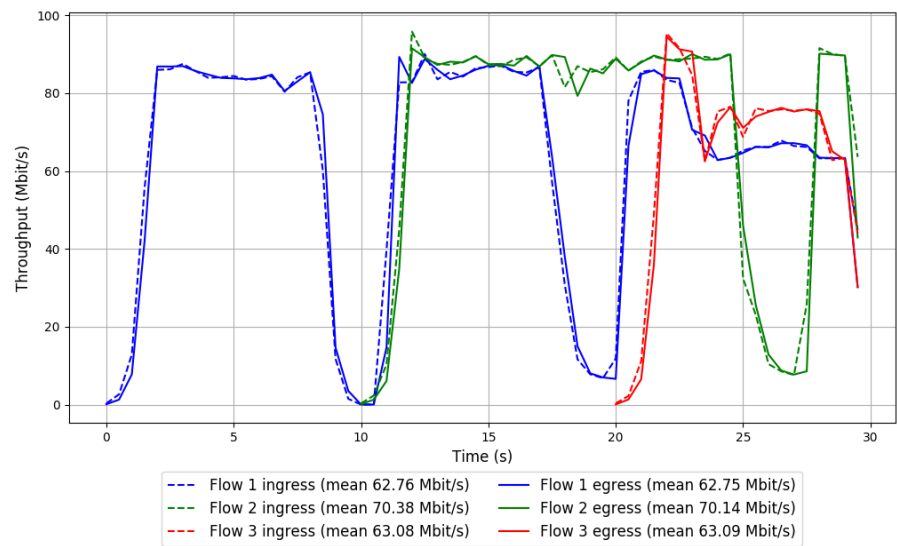
-- Flow 3:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 110.174 ms

Loss rate: 2.27%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 21:33:49

End at: 2017-11-30 21:34:19

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.32 Mbit/s

95th percentile per-packet one-way delay: 111.555 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 68.04 Mbit/s

95th percentile per-packet one-way delay: 111.256 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 65.00 Mbit/s

95th percentile per-packet one-way delay: 111.611 ms

Loss rate: 1.11%

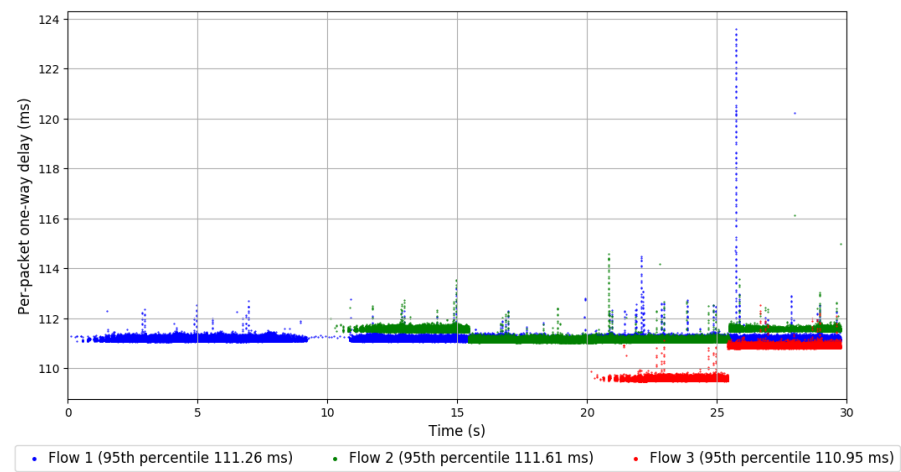
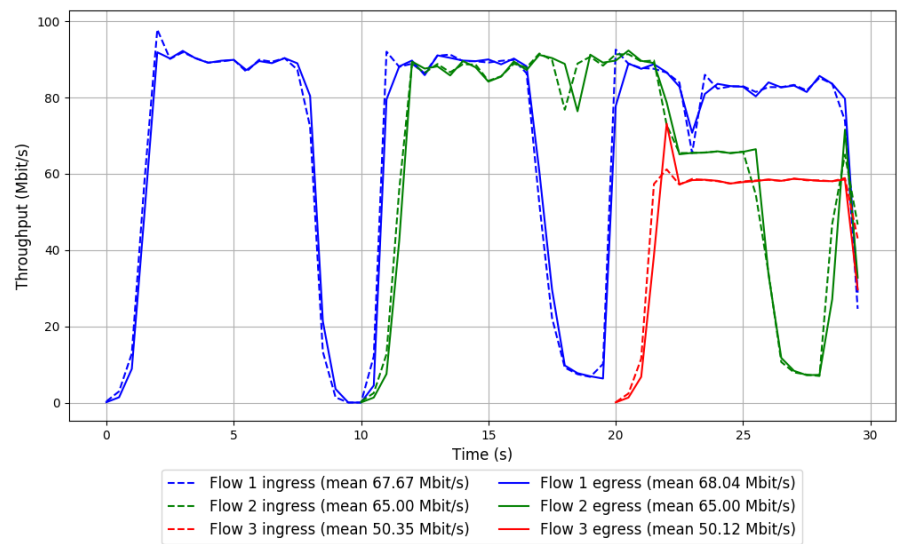
-- Flow 3:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 110.951 ms

Loss rate: 2.70%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 21:47:25

End at: 2017-11-30 21:47:55

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.60 Mbit/s

95th percentile per-packet one-way delay: 112.387 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 111.397 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 110.951 ms

Loss rate: 0.12%

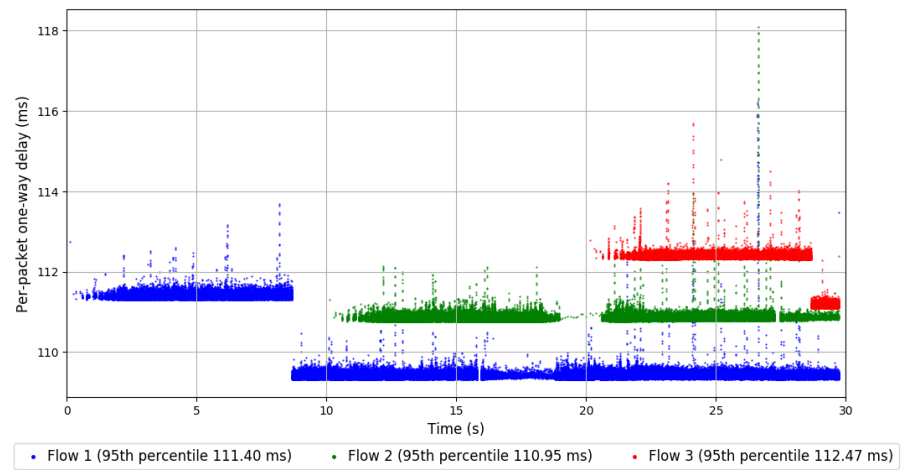
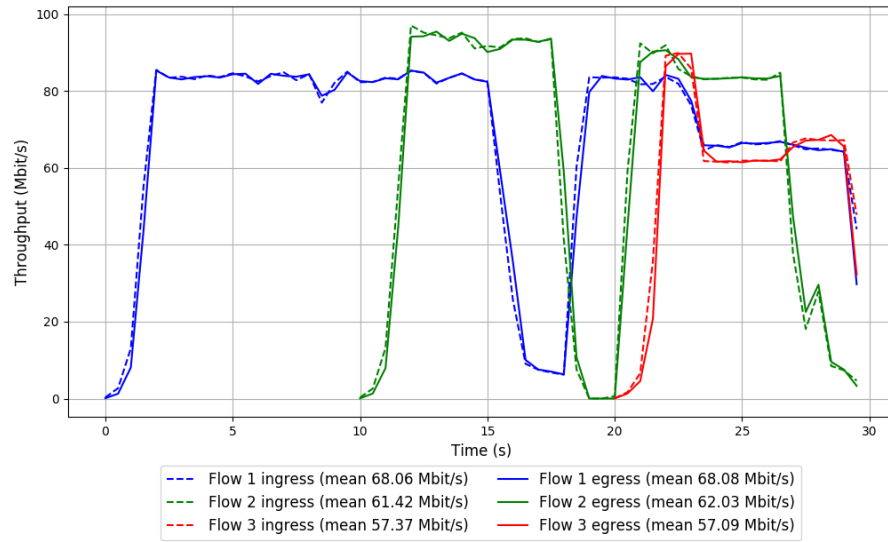
-- Flow 3:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 112.471 ms

Loss rate: 2.76%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 22:00:53

End at: 2017-11-30 22:01:23

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.60 Mbit/s

95th percentile per-packet one-way delay: 112.855 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 112.896 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 61.42 Mbit/s

95th percentile per-packet one-way delay: 110.763 ms

Loss rate: 0.11%

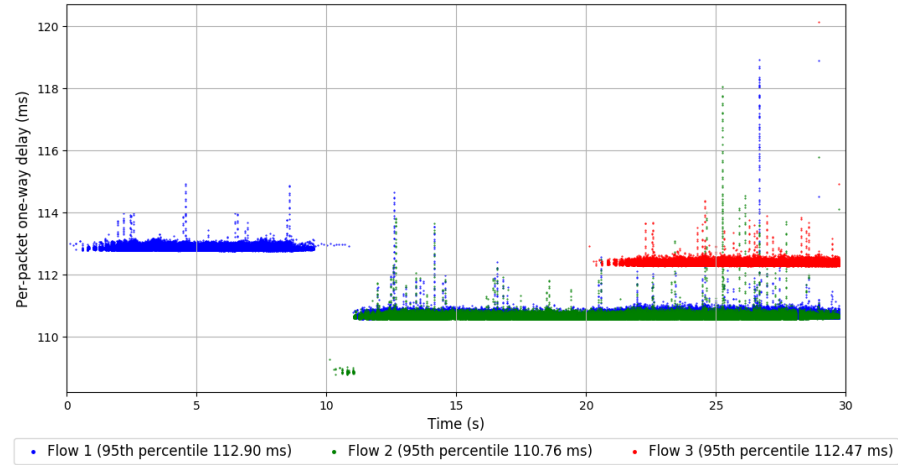
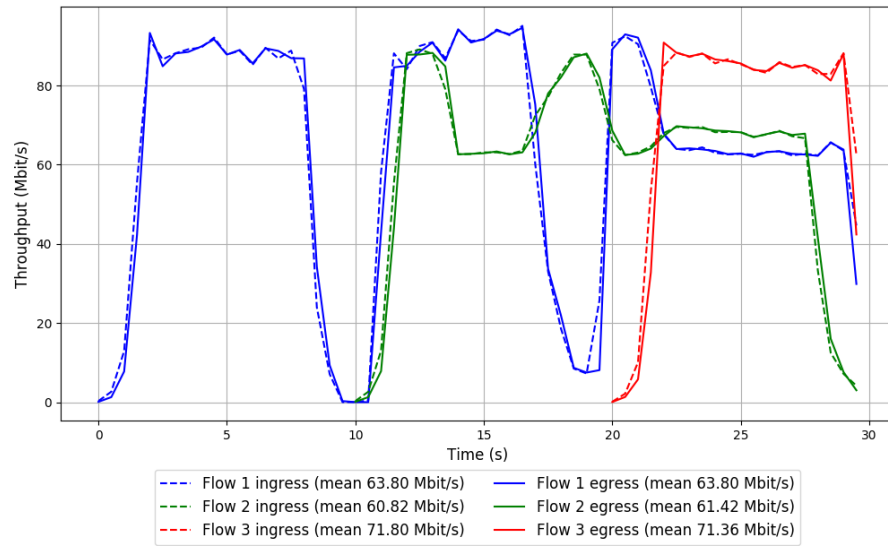
-- Flow 3:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 112.468 ms

Loss rate: 2.85%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 22:14:38

End at: 2017-11-30 22:15:08

Below is generated by plot.py at 2017-12-01 01:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.66 Mbit/s

95th percentile per-packet one-way delay: 112.748 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 60.06 Mbit/s

95th percentile per-packet one-way delay: 112.788 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 108.998 ms

Loss rate: 0.60%

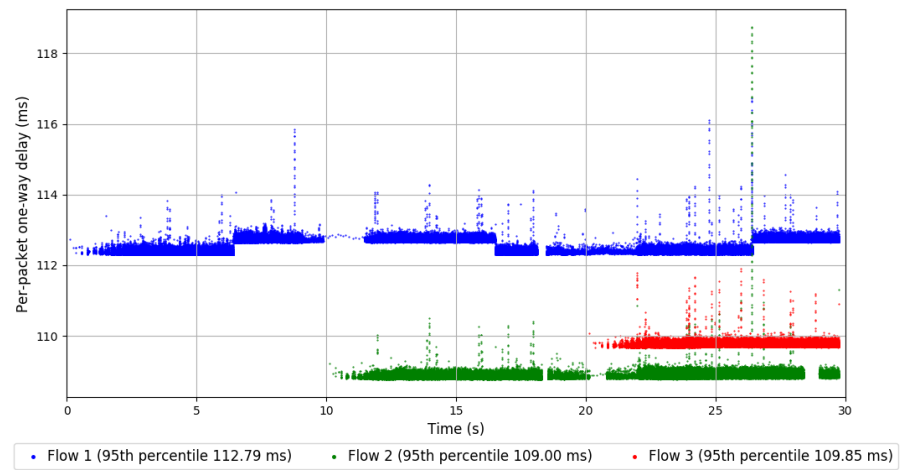
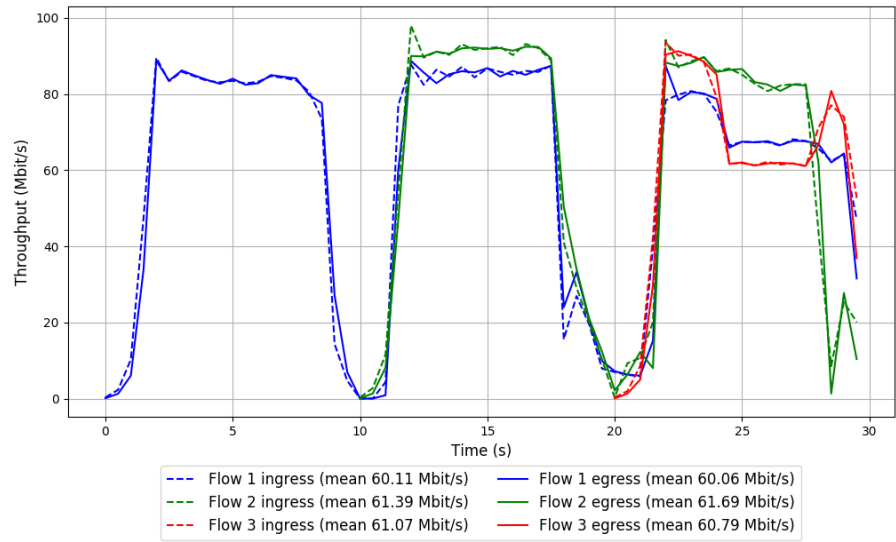
-- Flow 3:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 109.852 ms

Loss rate: 2.68%

Run 10: Report of QUIC Cubic — Data Link

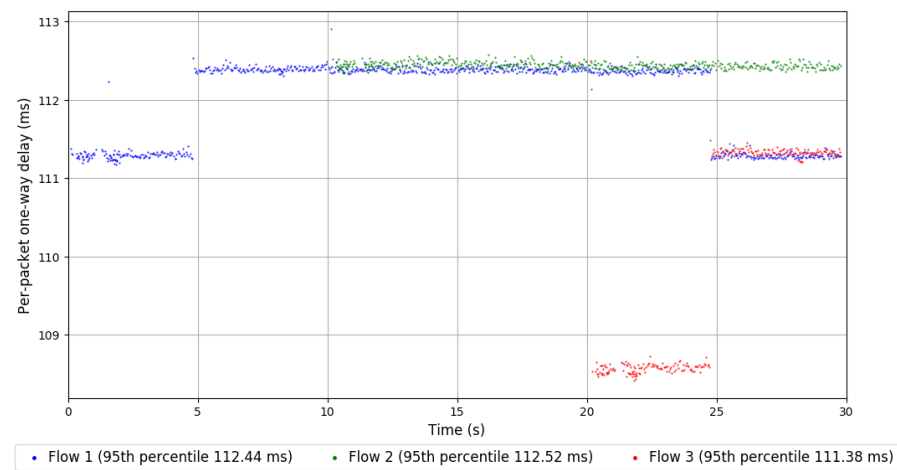
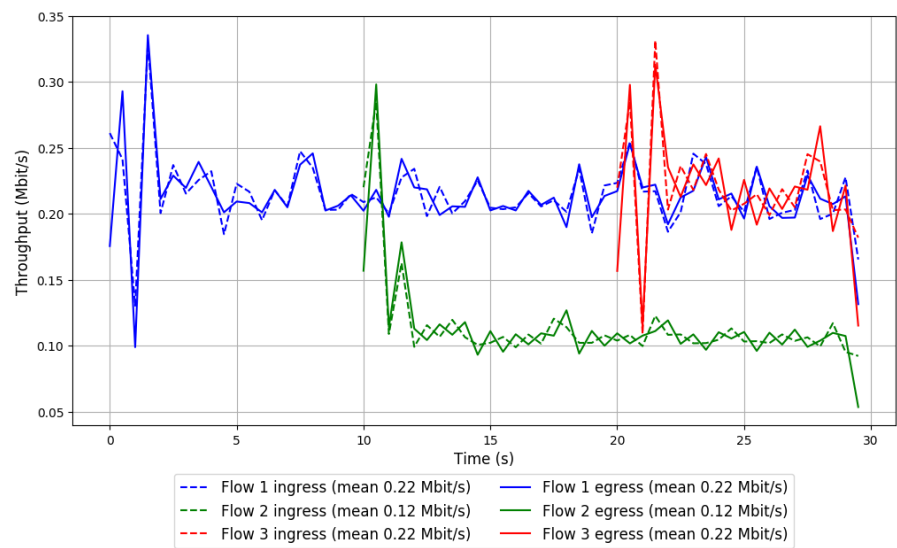


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 20:07:09
End at: 2017-11-30 20:07:39

# Below is generated by plot.py at 2017-12-01 01:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 112.489 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.438 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 112.521 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.382 ms
Loss rate: 2.24%
```

Run 1: Report of SReAM — Data Link

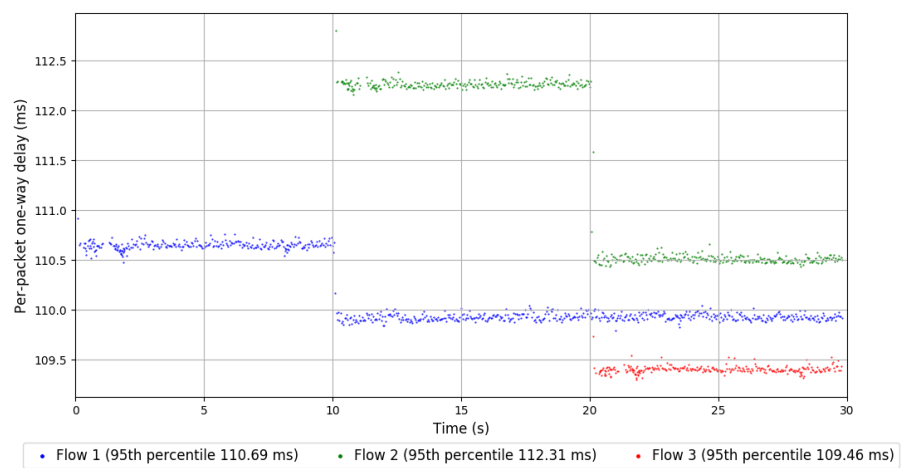
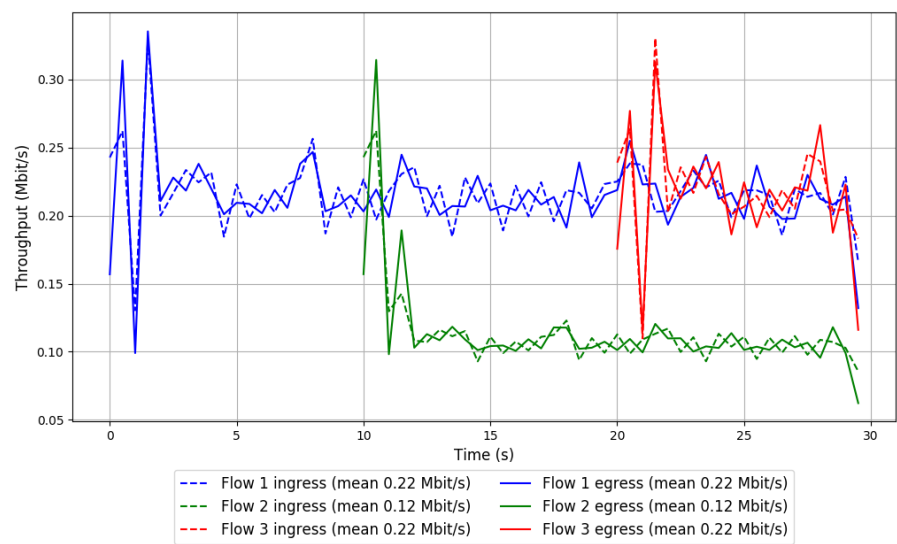


```
Run 2: Statistics of SCReAM

Start at: 2017-11-30 20:20:14
End at: 2017-11-30 20:20:44

# Below is generated by plot.py at 2017-12-01 01:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 112.276 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.689 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 112.307 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.458 ms
Loss rate: 2.26%
```

Run 2: Report of SCRaM — Data Link

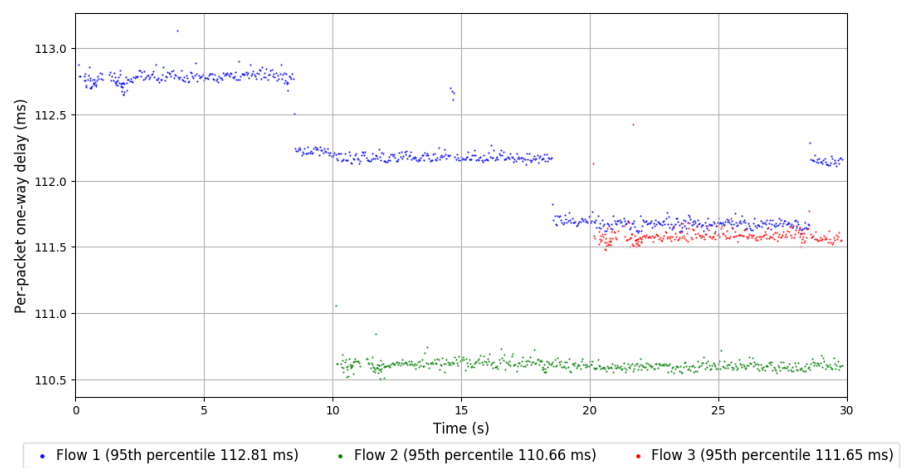
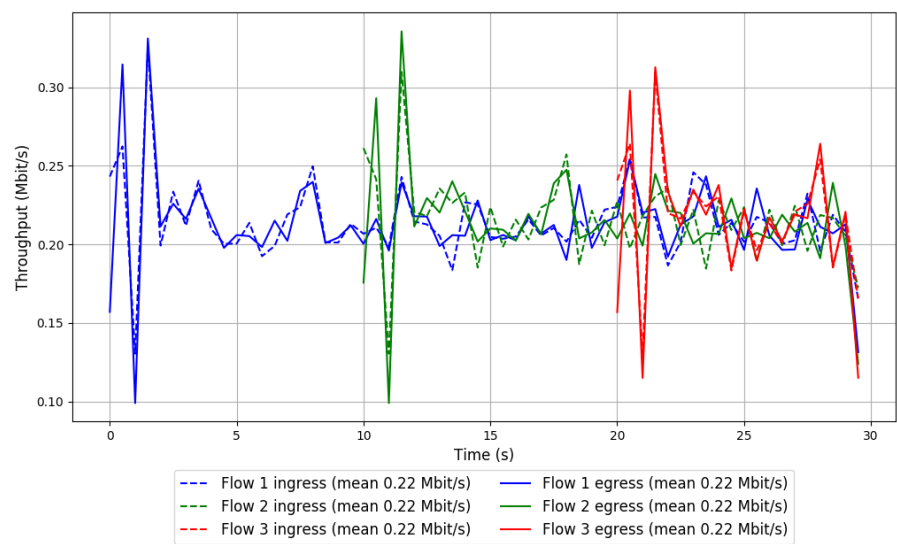


```
Run 3: Statistics of SCReAM

Start at: 2017-11-30 20:33:26
End at: 2017-11-30 20:33:56

# Below is generated by plot.py at 2017-12-01 01:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.794 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.810 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.662 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.652 ms
Loss rate: 2.25%
```


Run 3: Report of SReAM — Data Link

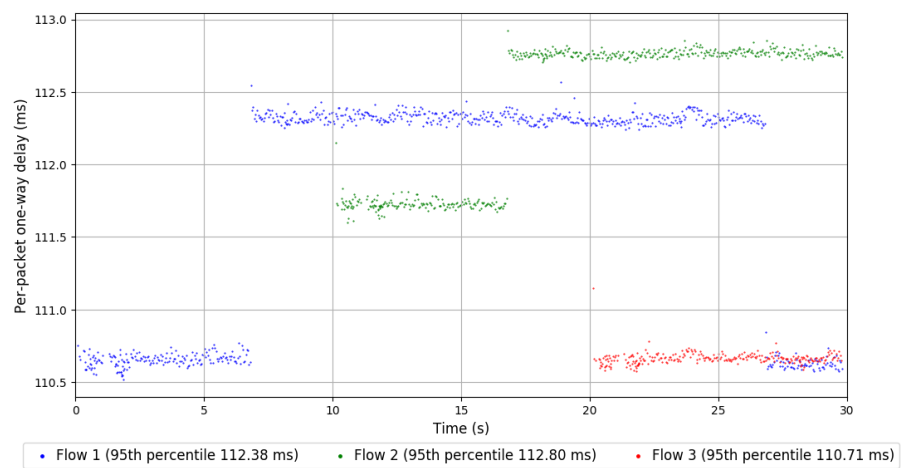
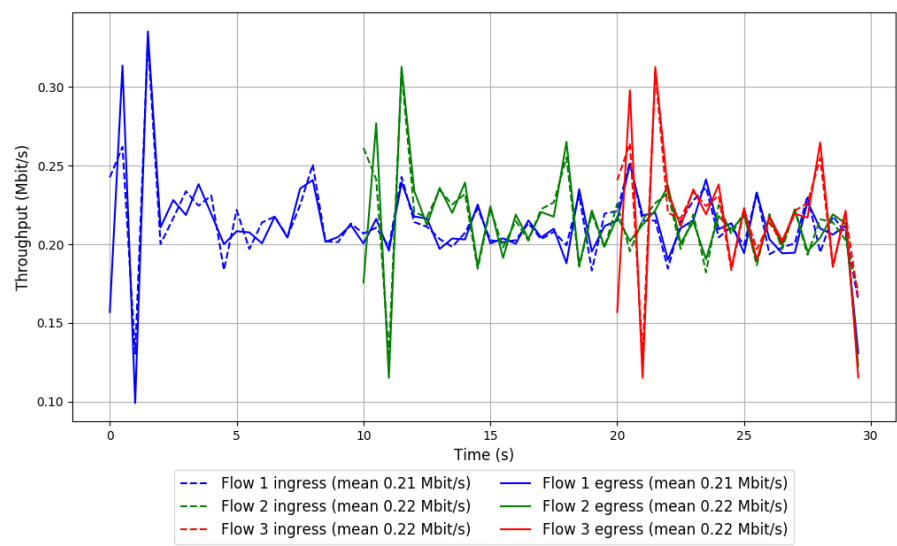


```
Run 4: Statistics of SCReAM

Start at: 2017-11-30 20:46:37
End at: 2017-11-30 20:47:07

# Below is generated by plot.py at 2017-12-01 01:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.781 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.376 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.801 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.714 ms
Loss rate: 2.25%
```

Run 4: Report of SReAM — Data Link

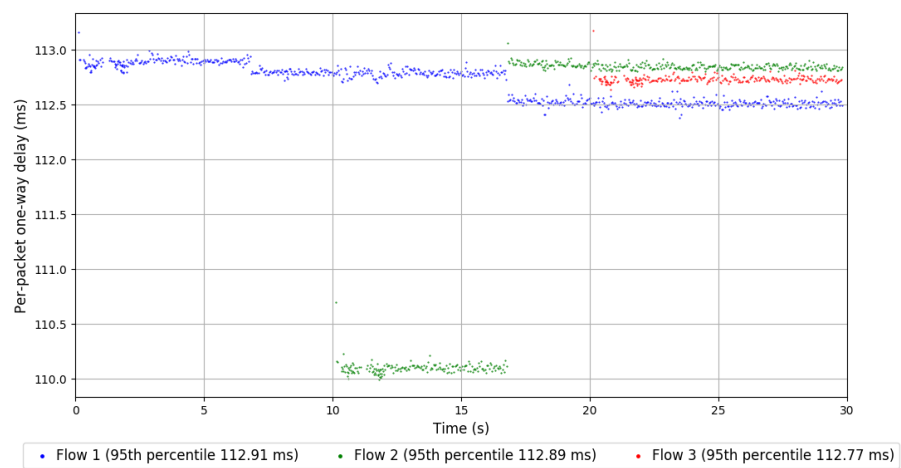
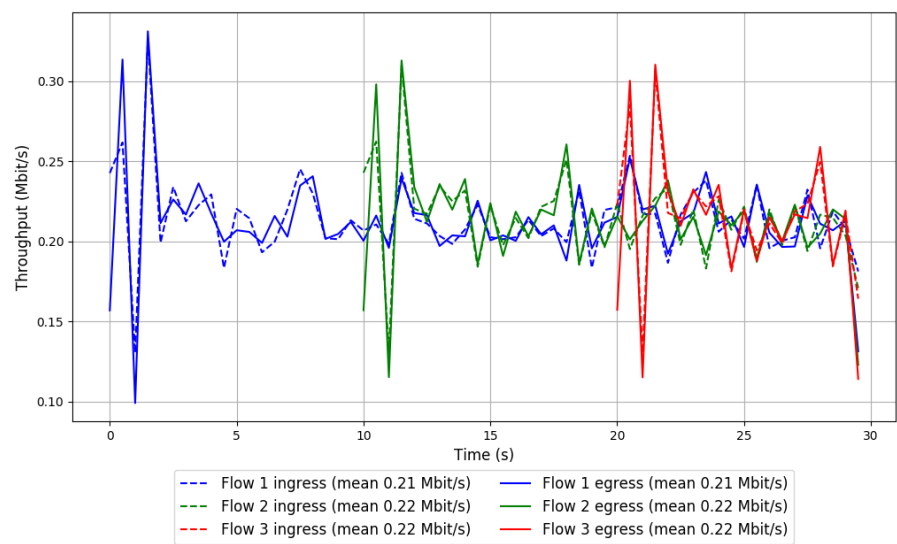


```
Run 5: Statistics of SCReAM

Start at: 2017-11-30 20:59:57
End at: 2017-11-30 21:00:27

# Below is generated by plot.py at 2017-12-01 01:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.905 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.914 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.891 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.770 ms
Loss rate: 2.25%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-30 21:13:24

End at: 2017-11-30 21:13:54

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.958 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.970 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.888 ms

Loss rate: 1.05%

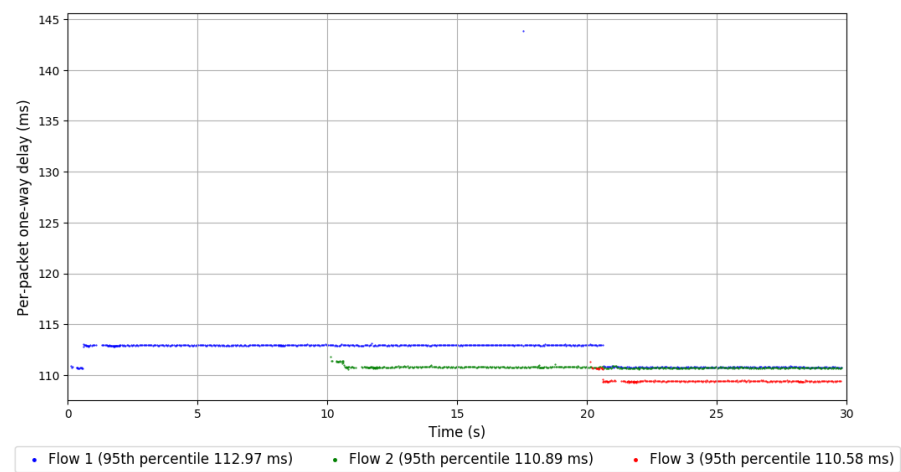
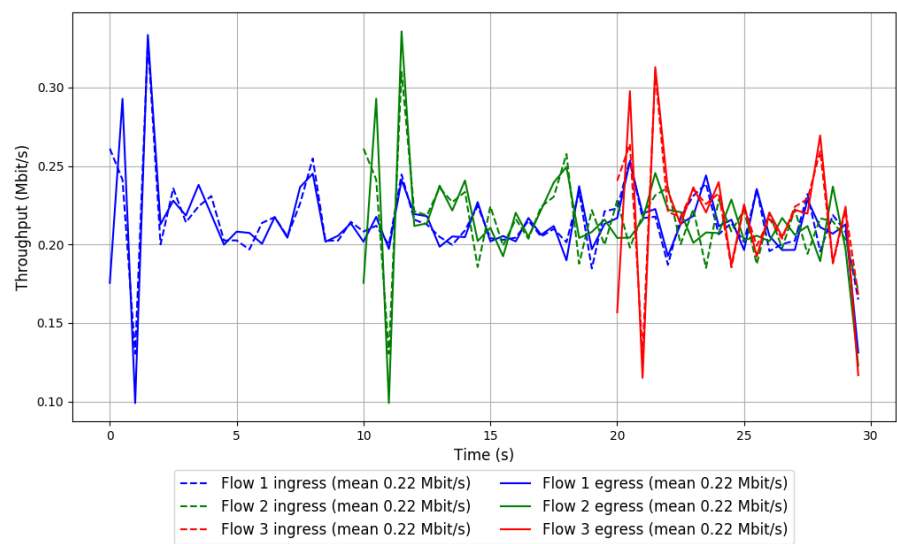
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.585 ms

Loss rate: 2.26%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-11-30 21:26:58

End at: 2017-11-30 21:27:28

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.058 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.071 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.327 ms

Loss rate: 1.06%

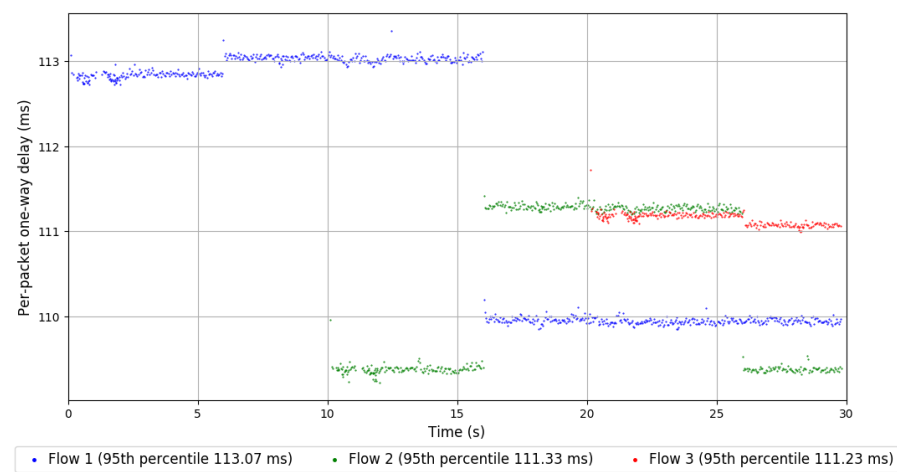
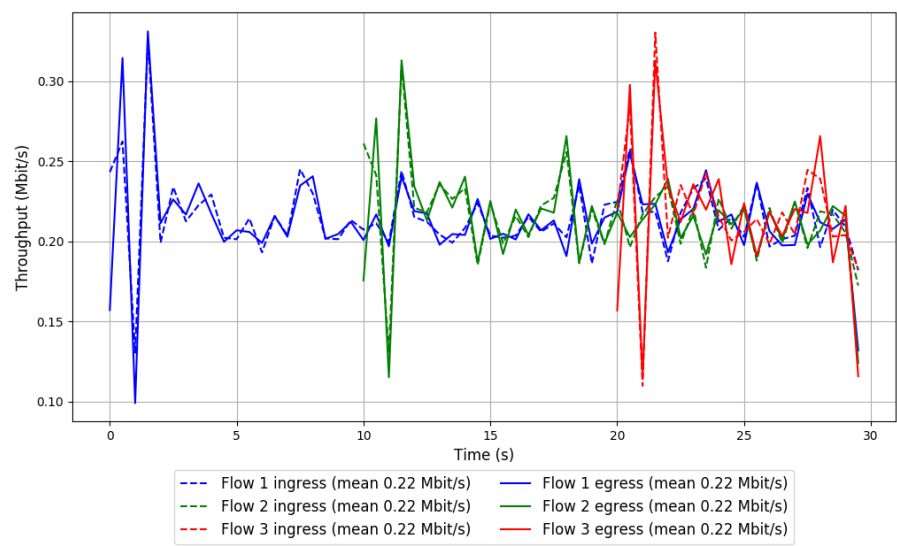
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.230 ms

Loss rate: 2.25%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-30 21:40:35

End at: 2017-11-30 21:41:05

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.168 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.874 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.839 ms

Loss rate: 1.06%

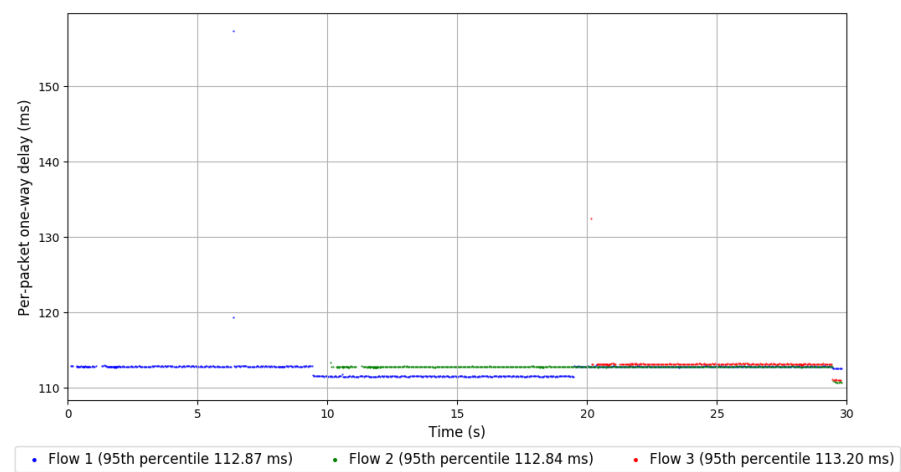
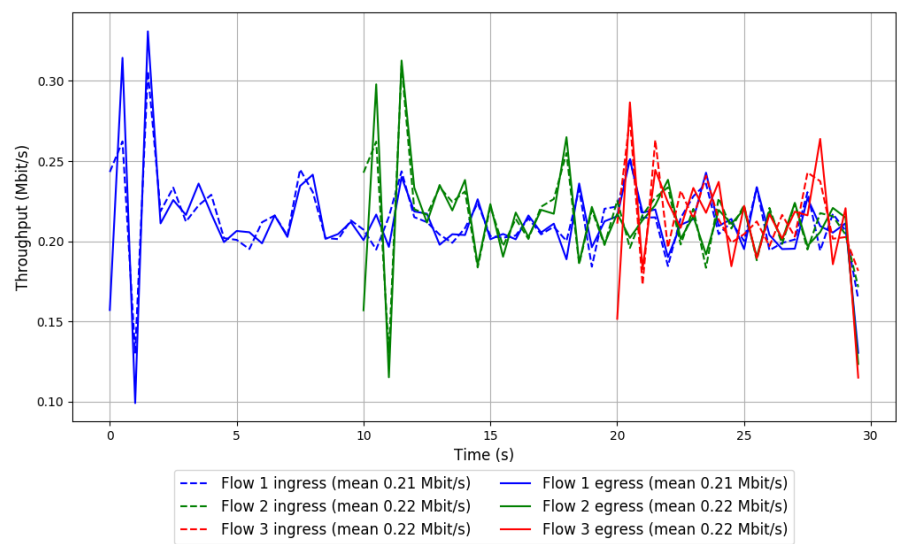
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.201 ms

Loss rate: 2.27%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-30 21:54:08

End at: 2017-11-30 21:54:38

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.396 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.401 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.738 ms

Loss rate: 1.05%

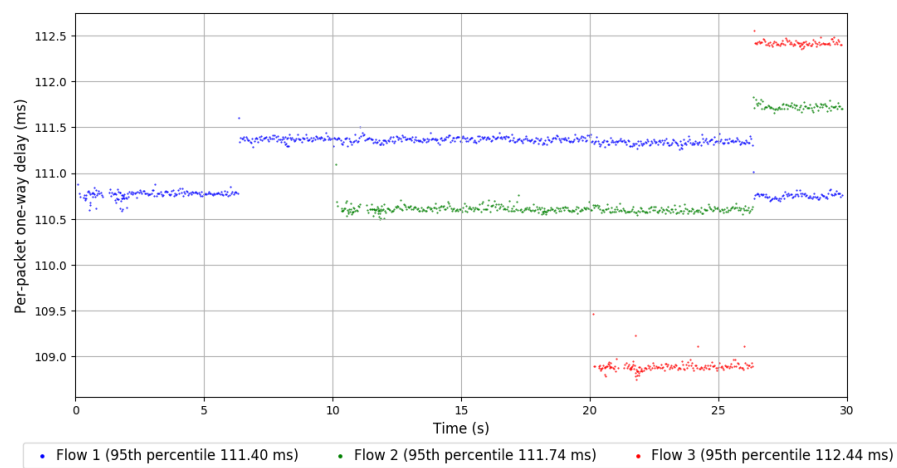
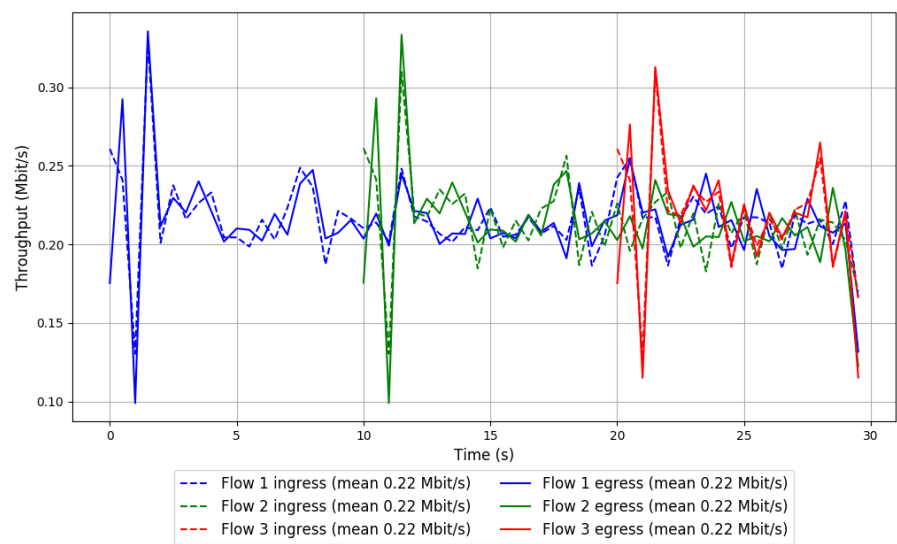
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.441 ms

Loss rate: 2.24%

Run 9: Report of SReAM — Data Link

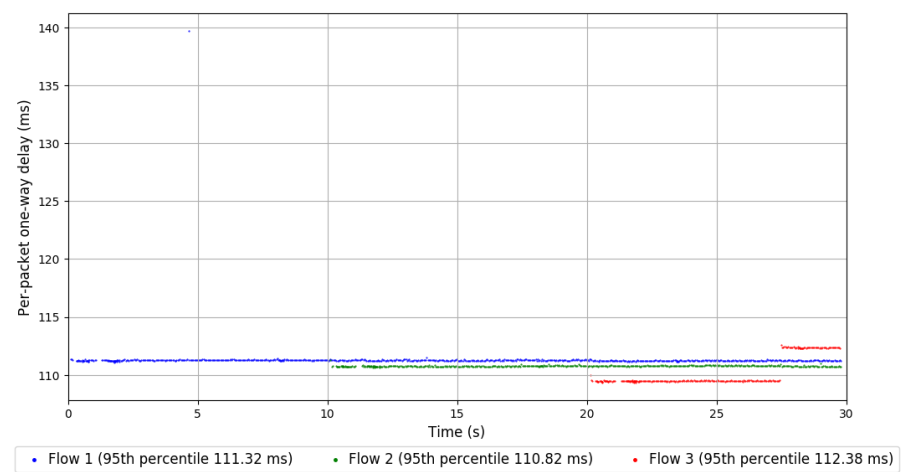
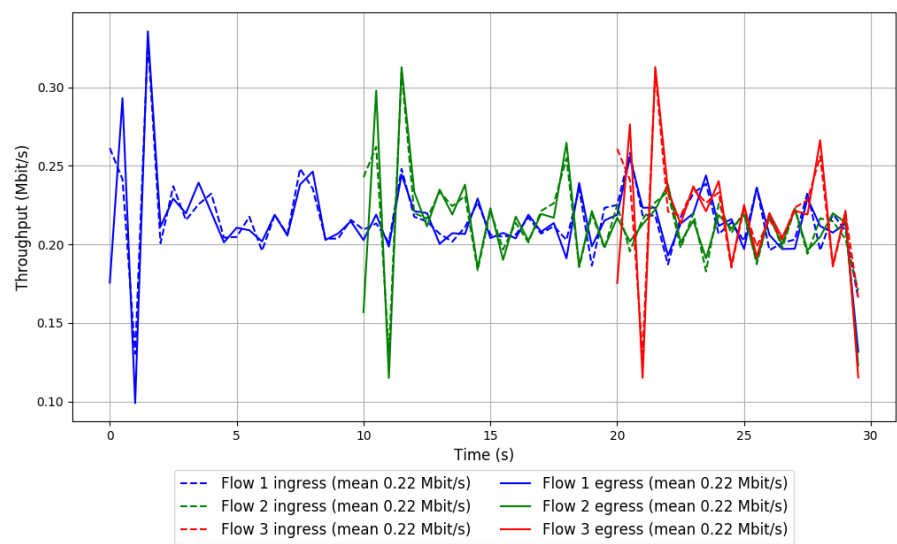


```
Run 10: Statistics of SReAM

Start at: 2017-11-30 22:07:37
End at: 2017-11-30 22:08:07

# Below is generated by plot.py at 2017-12-01 01:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.336 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.320 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.823 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.376 ms
Loss rate: 2.24%
```

Run 10: Report of SReAM — Data Link

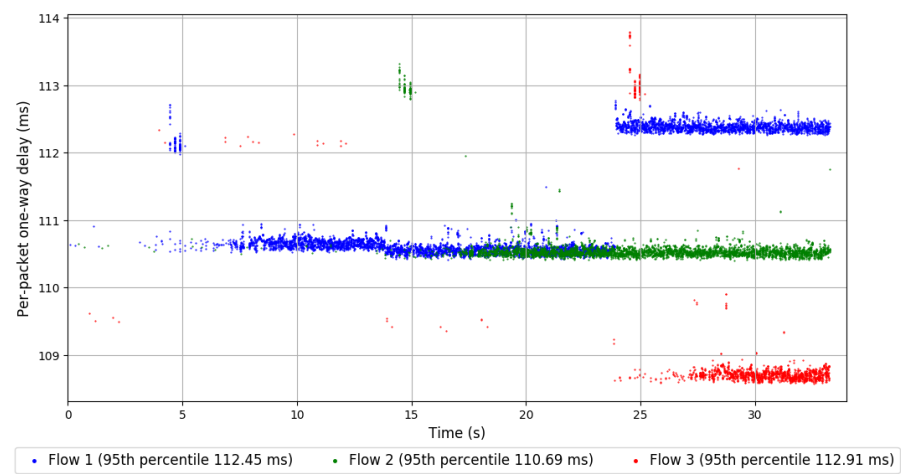
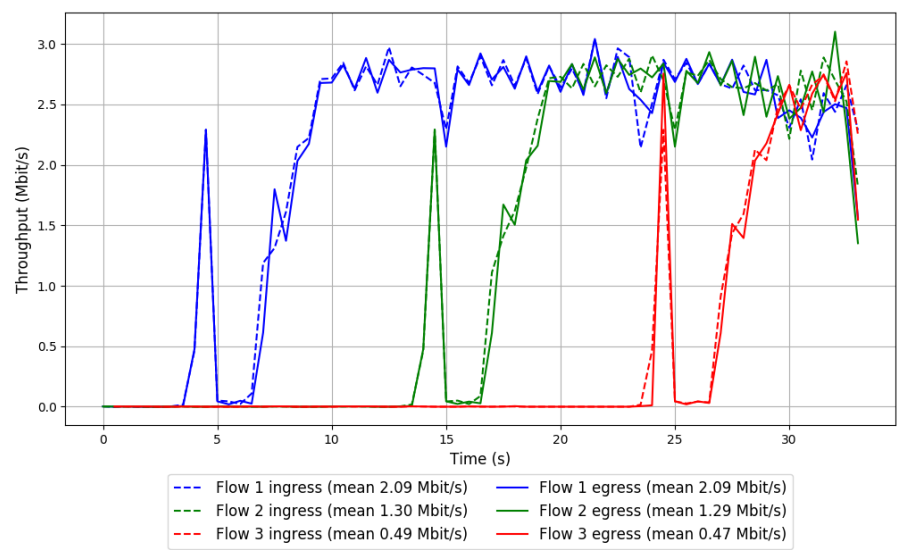


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 20:05:34
End at: 2017-11-30 20:06:04

# Below is generated by plot.py at 2017-12-01 01:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 112.442 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 112.454 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 110.690 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 112.910 ms
Loss rate: 4.61%
```


Run 1: Report of WebRTC media — Data Link

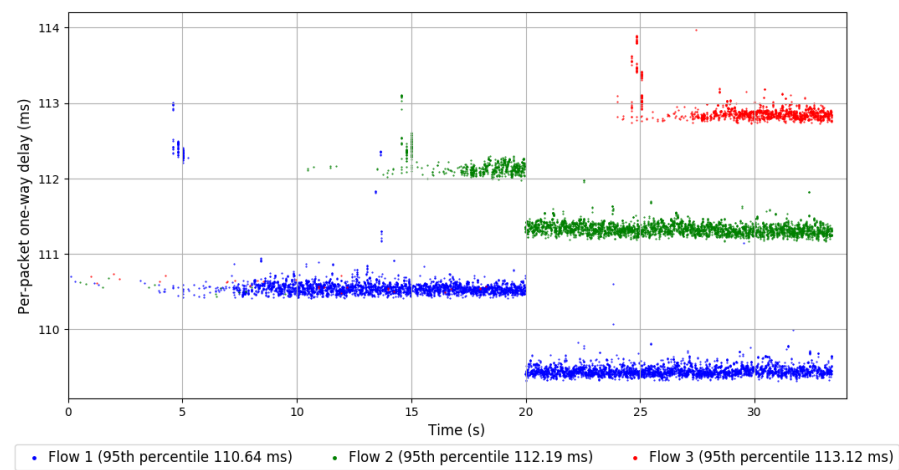
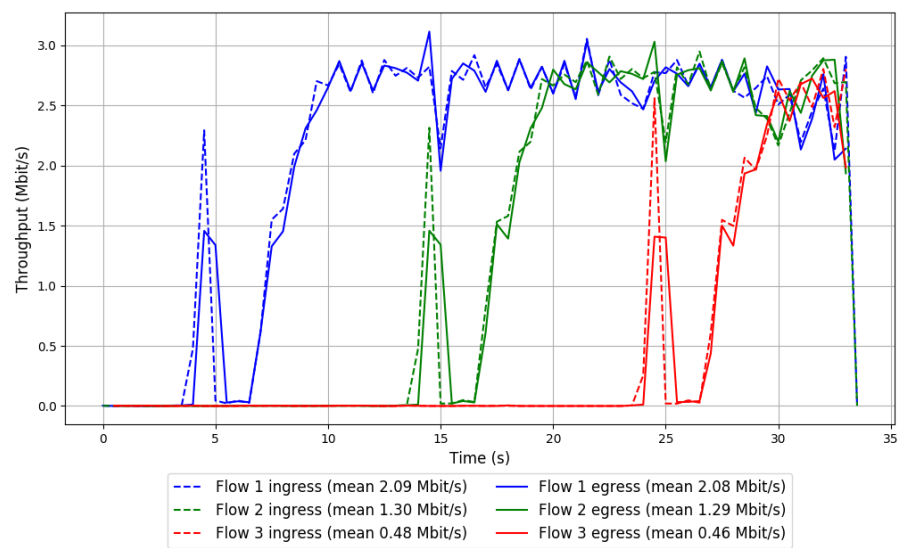


```
Run 2: Statistics of WebRTC media

Start at: 2017-11-30 20:18:38
End at: 2017-11-30 20:19:08

# Below is generated by plot.py at 2017-12-01 01:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 112.869 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 110.638 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 112.192 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 113.117 ms
Loss rate: 3.97%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 20:31:50

End at: 2017-11-30 20:32:20

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 112.521 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 112.541 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 110.617 ms

Loss rate: 1.31%

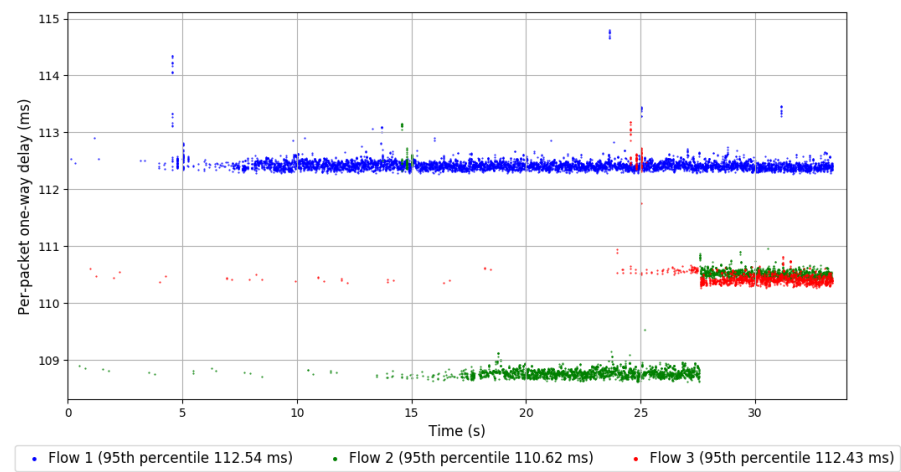
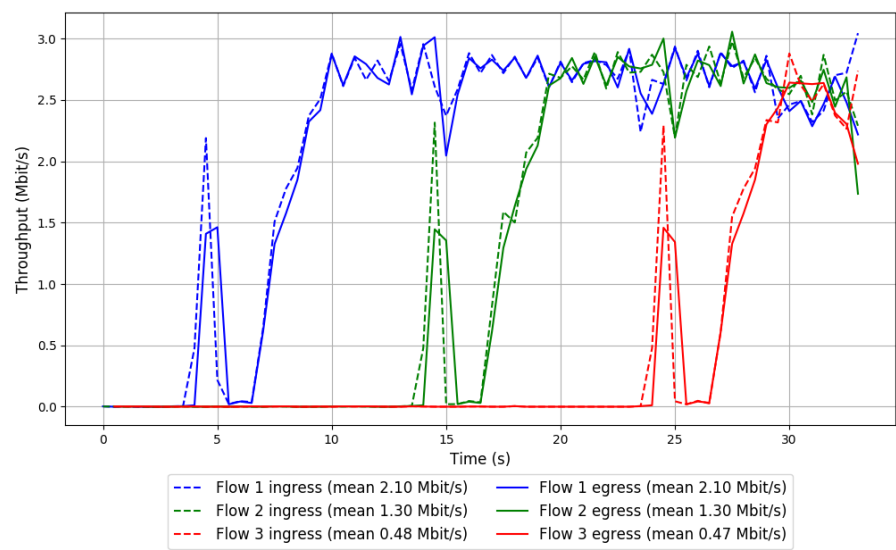
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 112.429 ms

Loss rate: 3.81%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 20:45:00

End at: 2017-11-30 20:45:30

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 112.538 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.534 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 112.176 ms

Loss rate: 1.34%

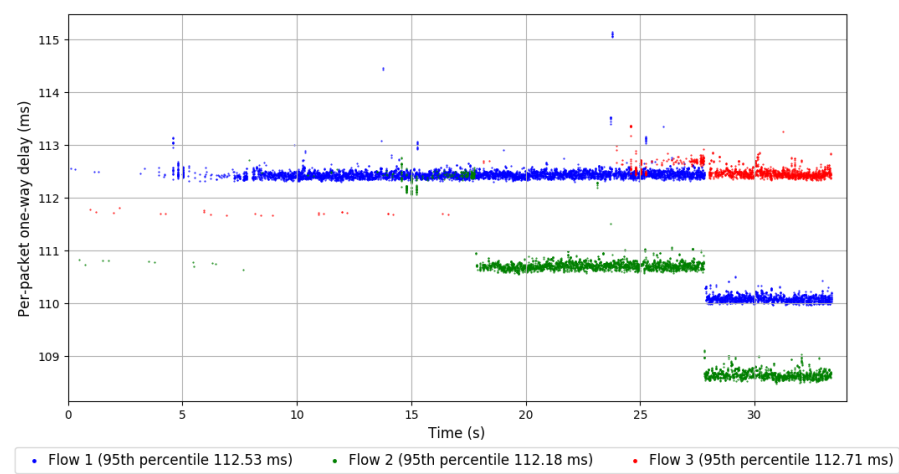
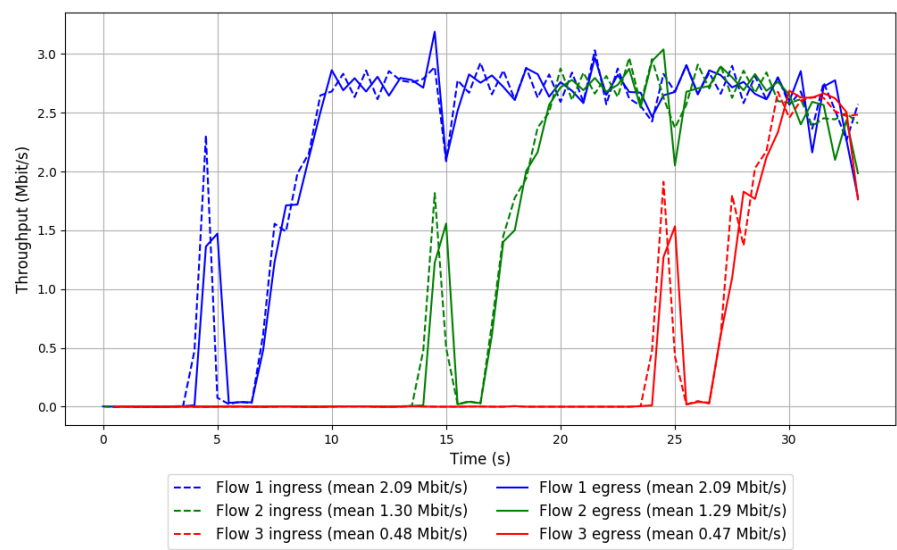
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 112.709 ms

Loss rate: 3.79%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 20:58:22

End at: 2017-11-30 20:58:52

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 112.864 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.557 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 112.910 ms

Loss rate: 1.61%

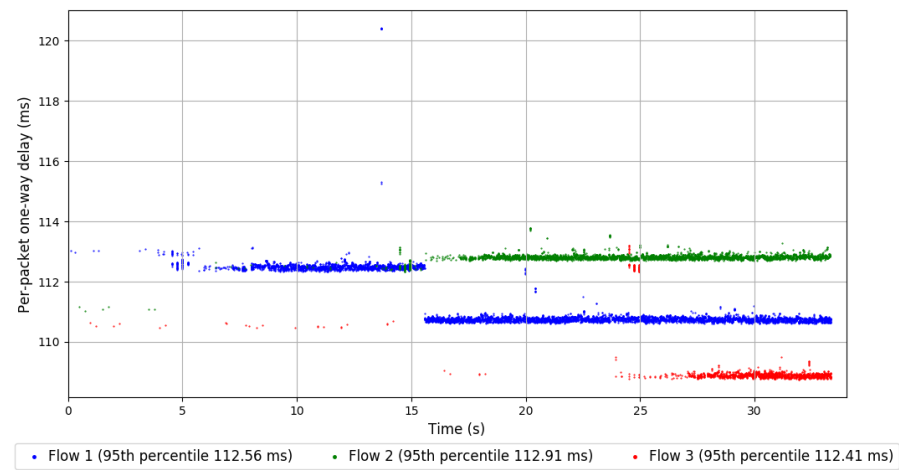
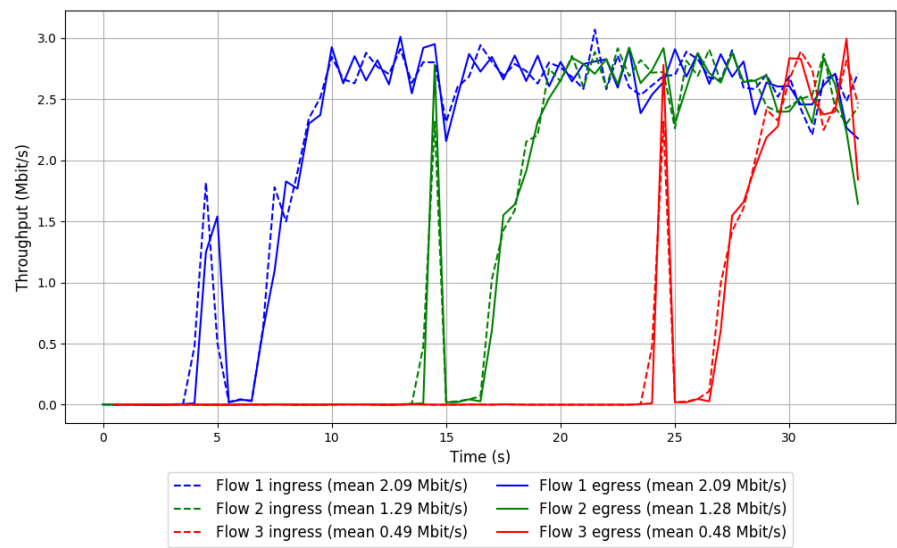
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 112.413 ms

Loss rate: 3.49%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 21:11:48

End at: 2017-11-30 21:12:18

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 112.855 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.872 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 112.821 ms

Loss rate: 1.15%

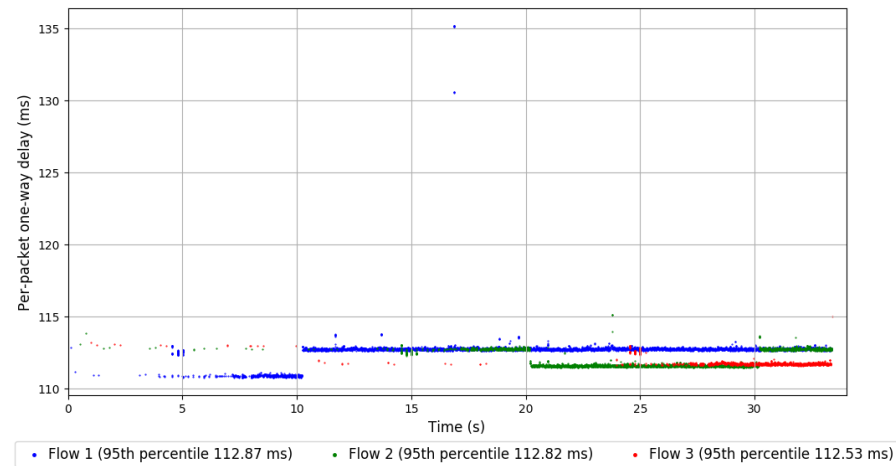
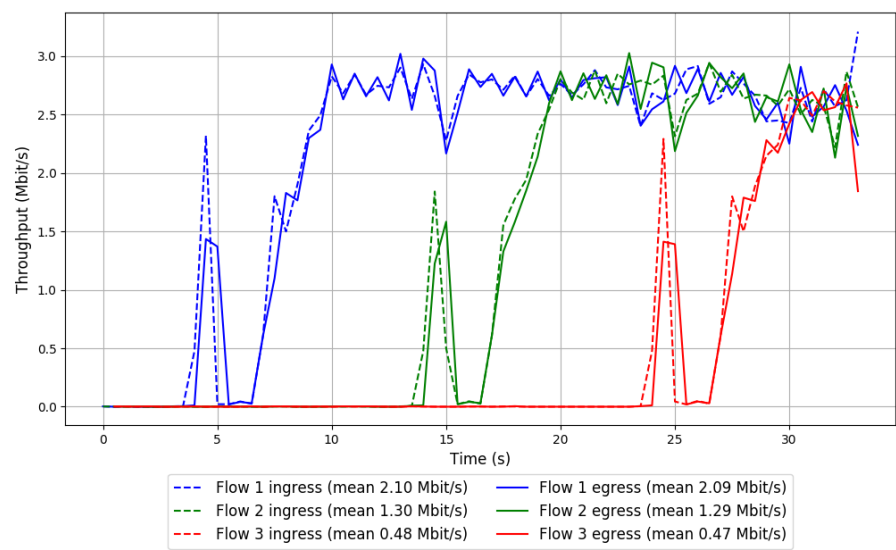
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 112.528 ms

Loss rate: 3.80%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 21:25:22

End at: 2017-11-30 21:25:52

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 112.889 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.904 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 111.307 ms

Loss rate: 1.26%

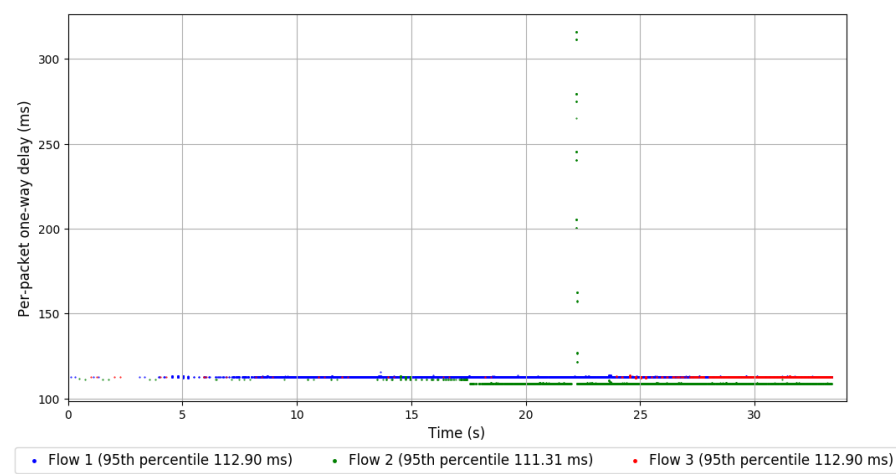
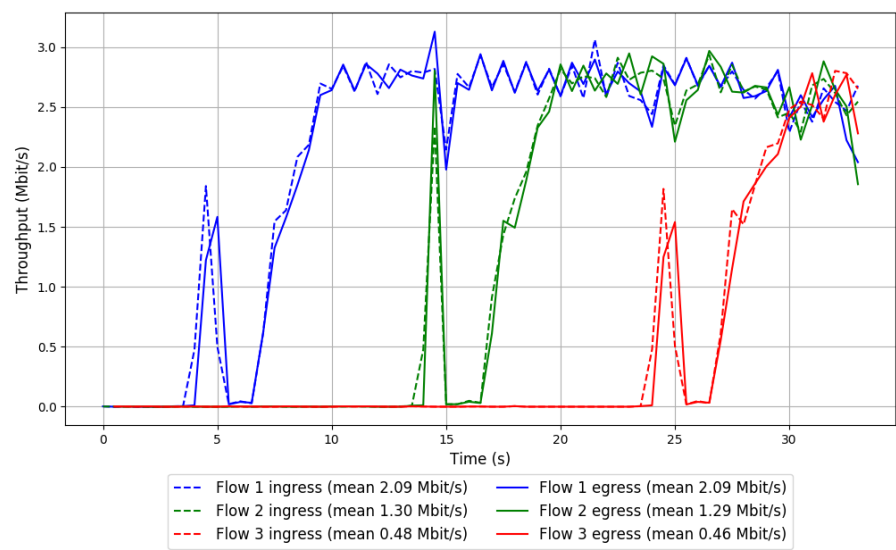
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 112.899 ms

Loss rate: 3.41%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 21:38:58

End at: 2017-11-30 21:39:28

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 112.975 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 112.339 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 113.024 ms

Loss rate: 1.30%

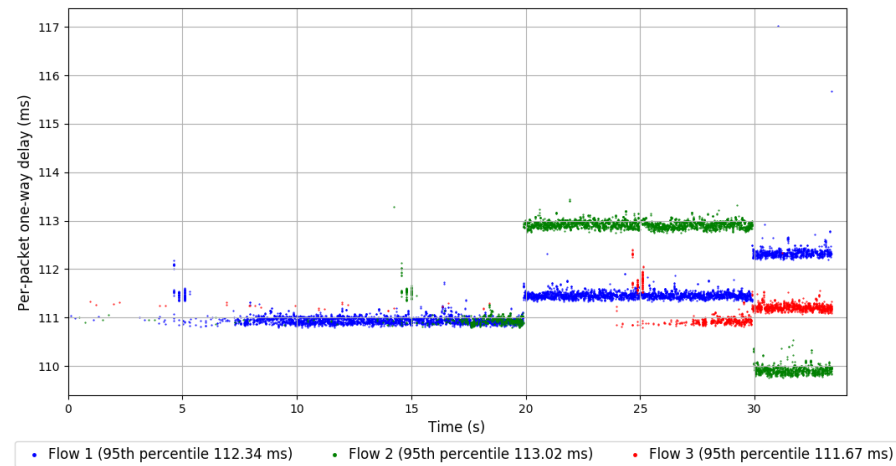
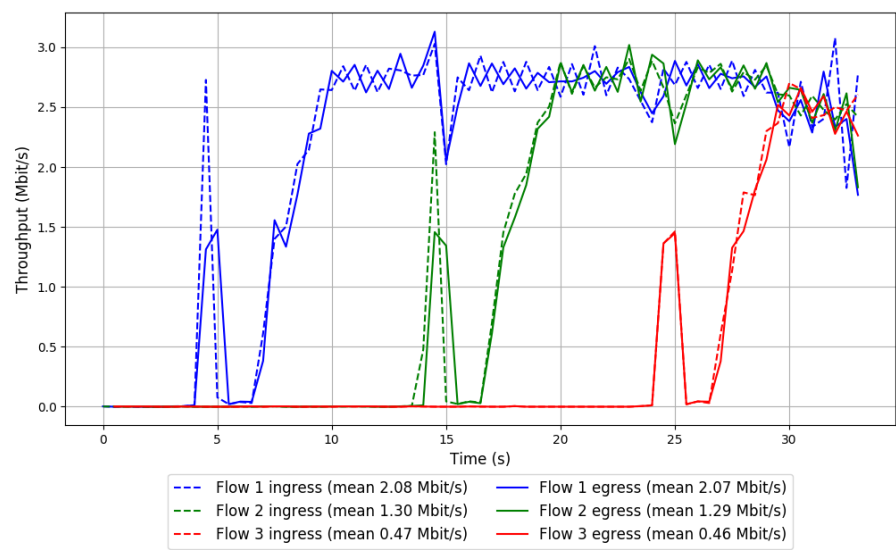
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 111.675 ms

Loss rate: 3.35%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-30 21:52:32

End at: 2017-11-30 21:53:02

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 112.531 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 109.776 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 110.918 ms

Loss rate: 1.23%

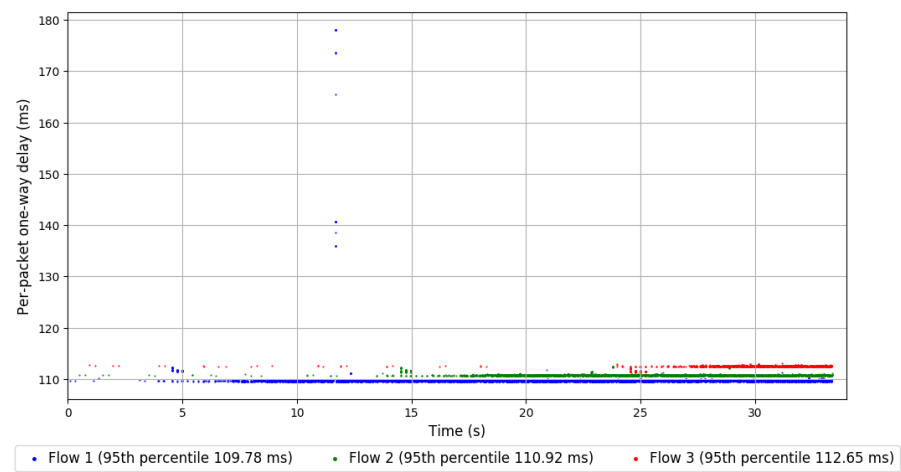
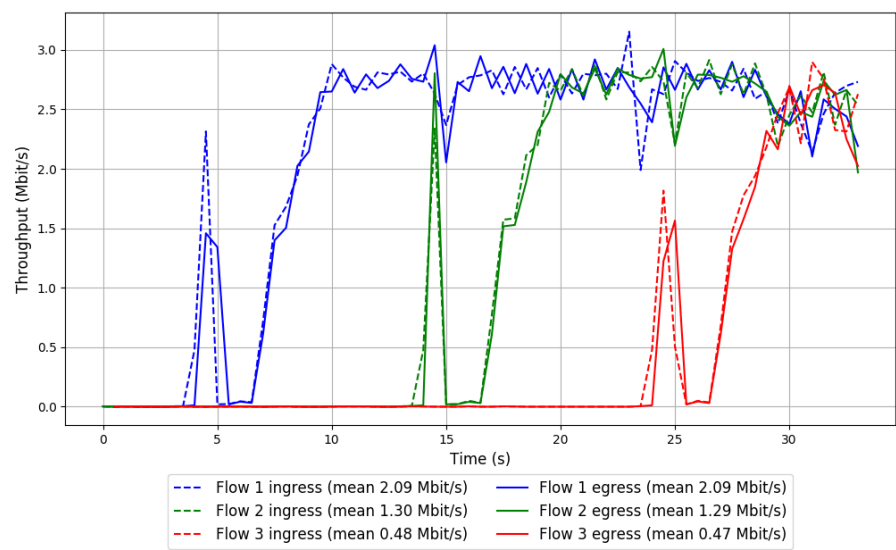
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 112.651 ms

Loss rate: 3.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 22:06:00

End at: 2017-11-30 22:06:30

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 112.644 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.655 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 111.412 ms

Loss rate: 1.20%

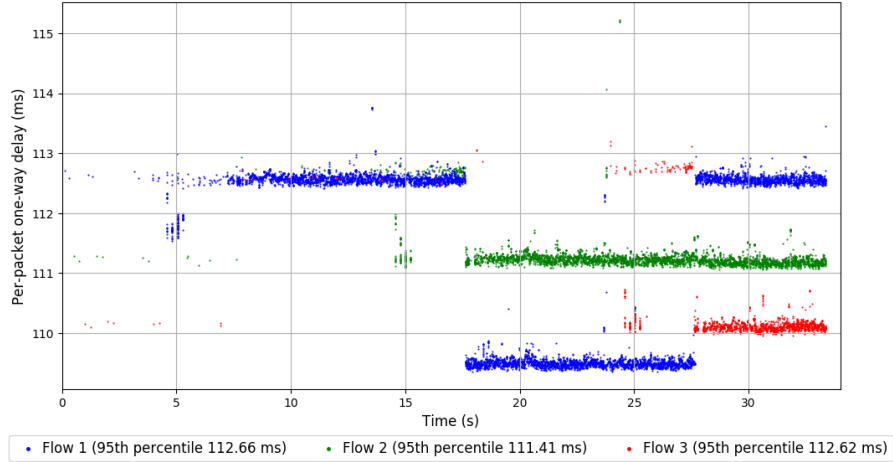
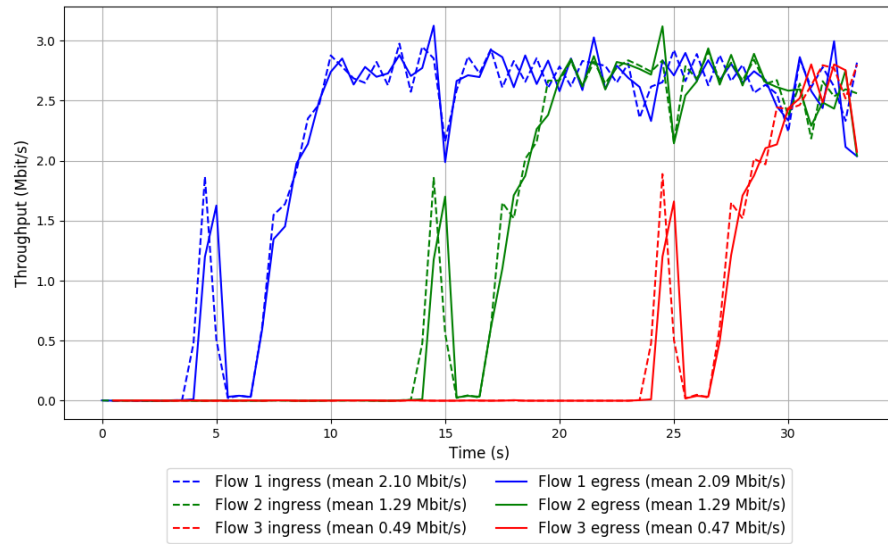
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 112.616 ms

Loss rate: 3.81%

Run 10: Report of WebRTC media — Data Link

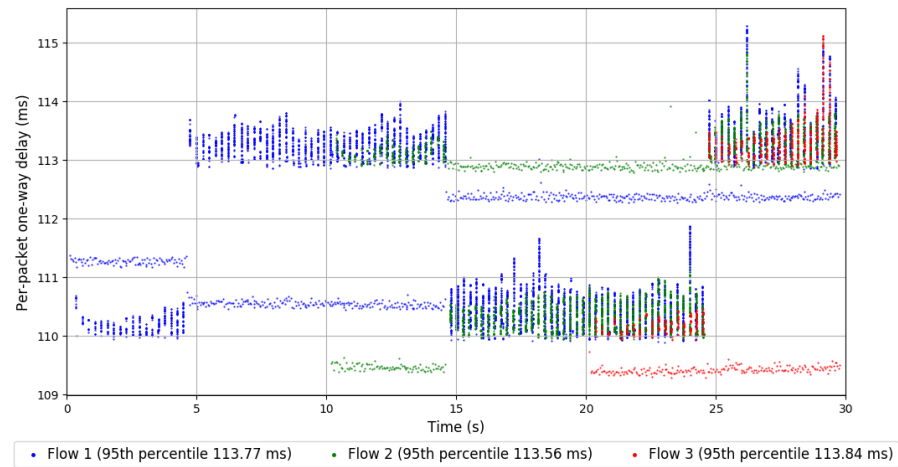
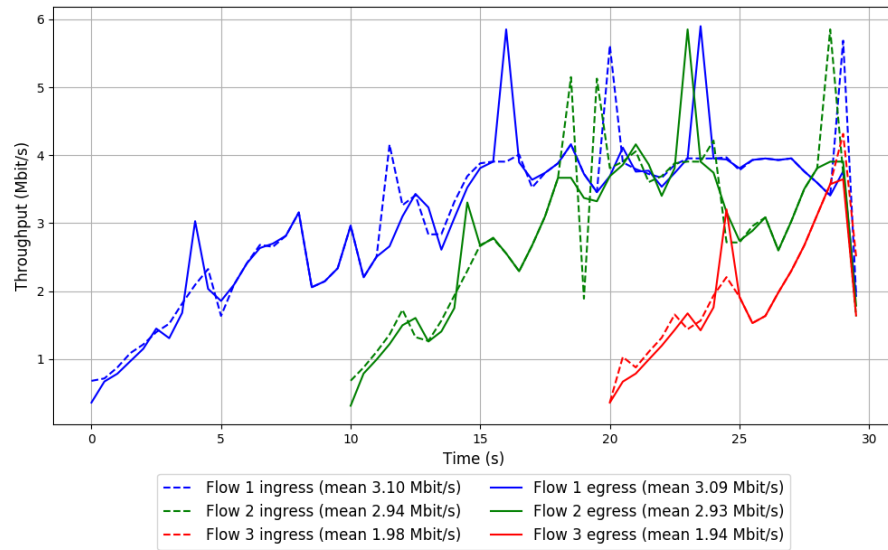


```
Run 1: Statistics of Sprout

Start at: 2017-11-30 20:11:50
End at: 2017-11-30 20:12:20

# Below is generated by plot.py at 2017-12-01 01:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 113.700 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 113.772 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 113.555 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 113.843 ms
Loss rate: 3.94%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 20:24:56

End at: 2017-11-30 20:25:26

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 113.529 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 113.591 ms

Loss rate: 1.38%

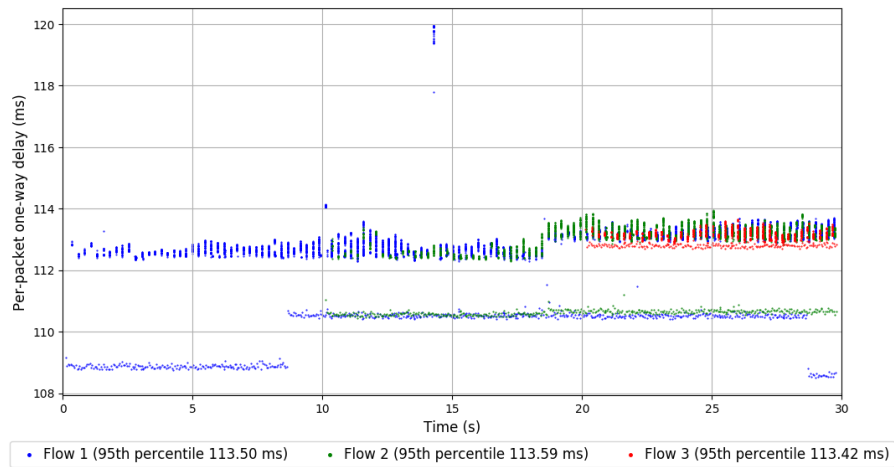
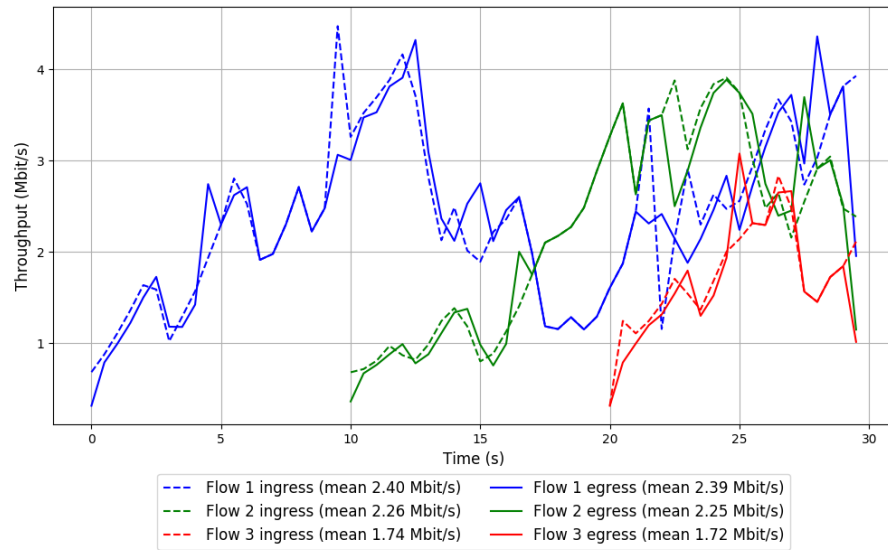
-- Flow 3:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 113.422 ms

Loss rate: 3.20%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 20:38:08

End at: 2017-11-30 20:38:38

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 113.159 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 113.191 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 113.083 ms

Loss rate: 1.63%

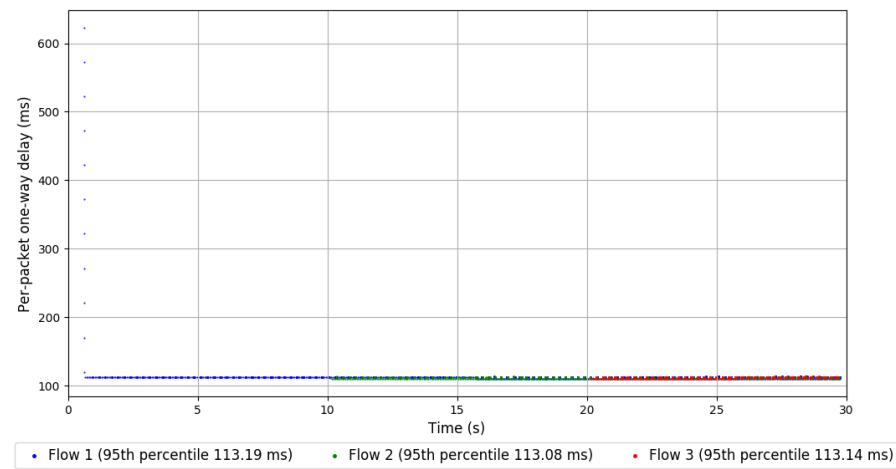
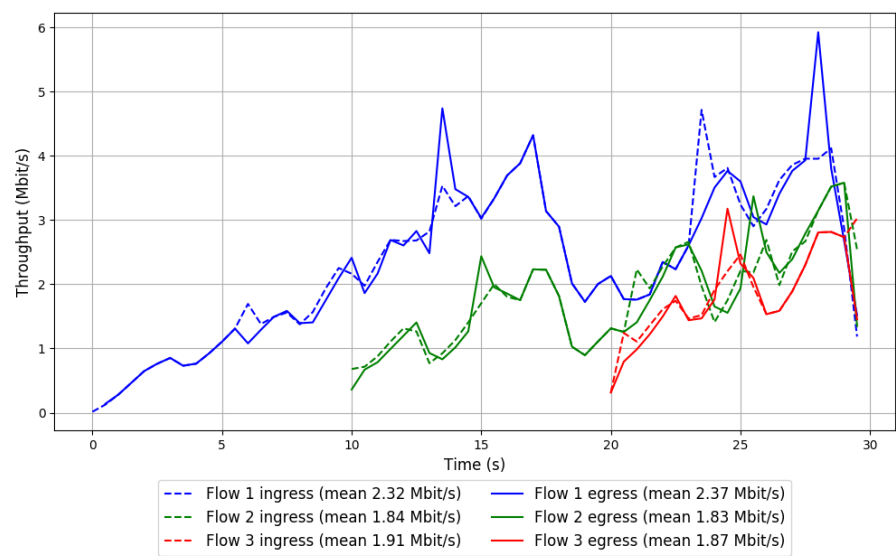
-- Flow 3:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 113.136 ms

Loss rate: 4.19%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 20:51:30

End at: 2017-11-30 20:52:00

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 113.207 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 113.089 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 113.707 ms

Loss rate: 1.77%

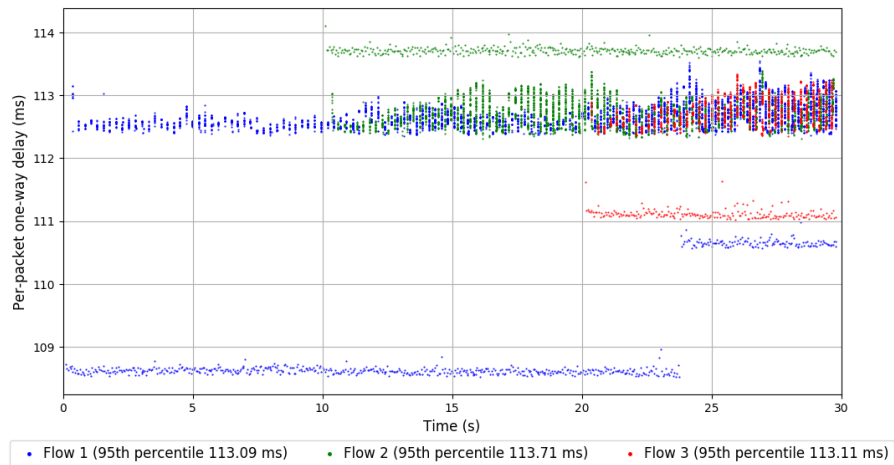
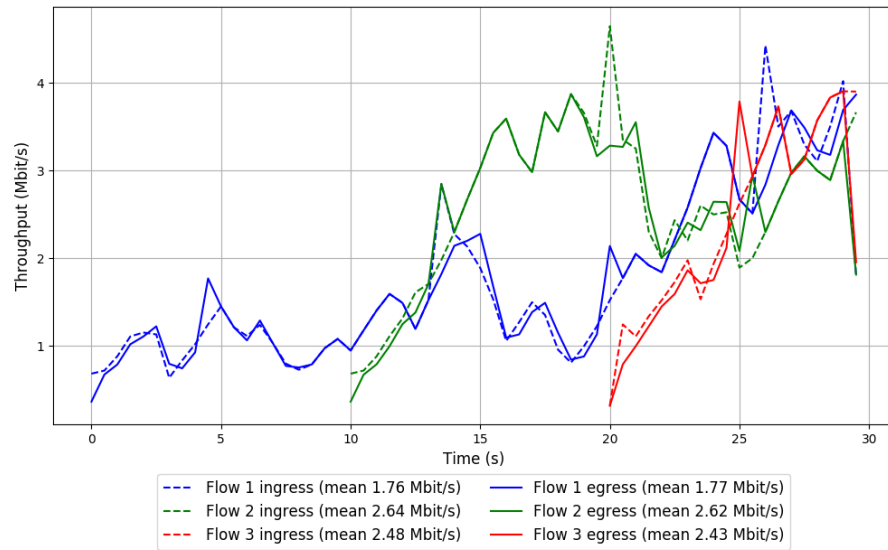
-- Flow 3:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 113.105 ms

Loss rate: 3.99%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 21:04:51

End at: 2017-11-30 21:05:21

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.66 Mbit/s

95th percentile per-packet one-way delay: 113.180 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 113.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 1.46%

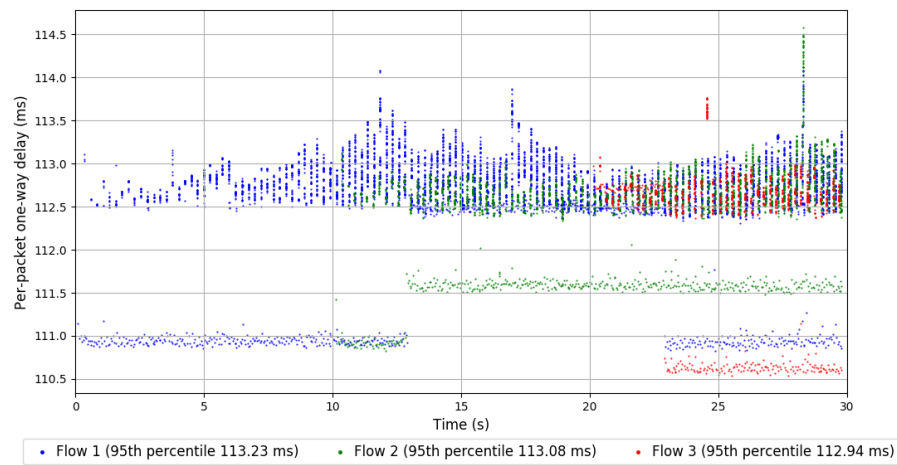
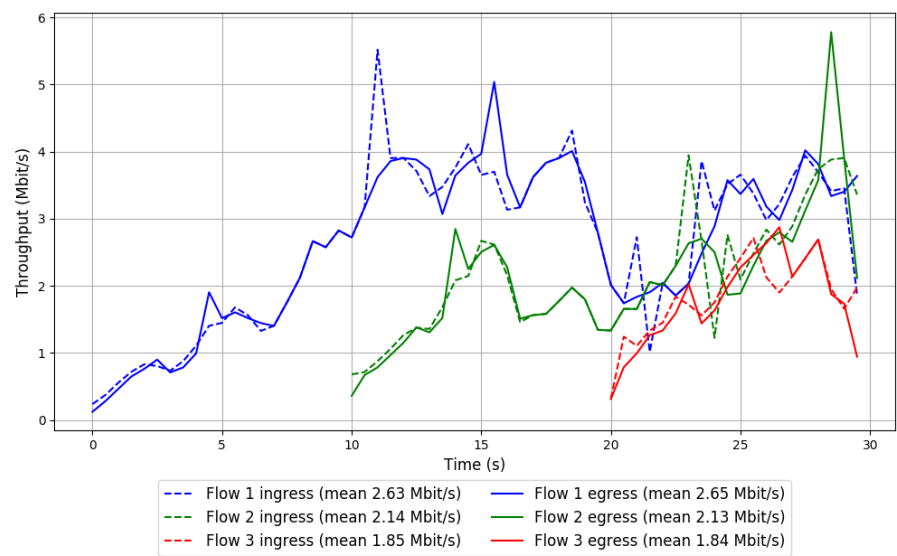
-- Flow 3:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 112.943 ms

Loss rate: 2.84%

Run 5: Report of Sprout — Data Link

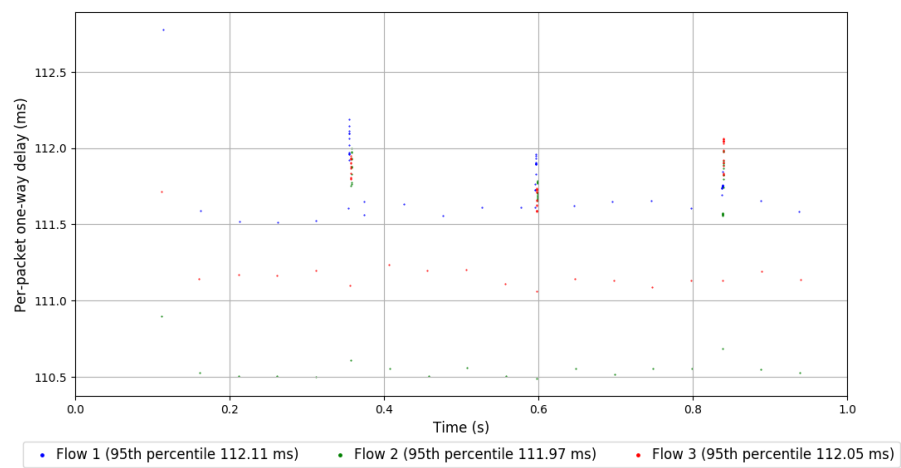
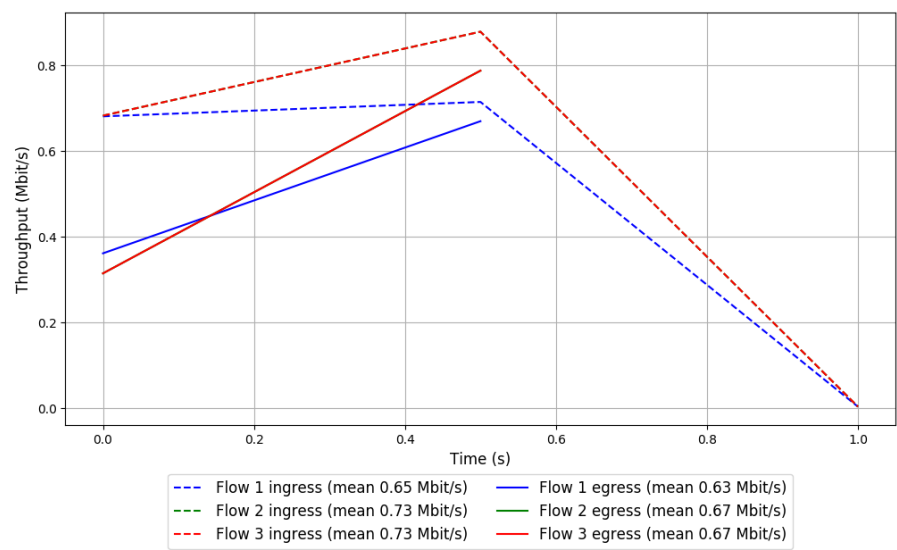


Run 6: Statistics of Sprout

Start at: 2017-11-30 21:18:29

End at: 2017-11-30 21:18:59

Run 6: Report of Sprout — Data Link

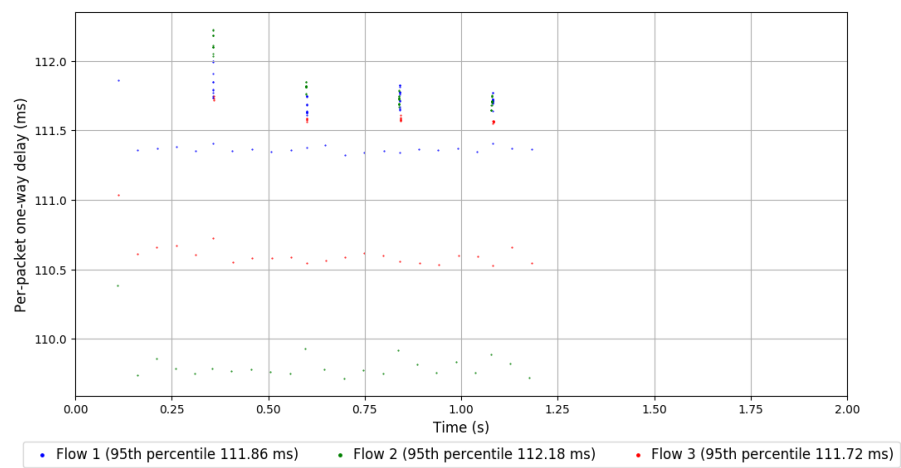
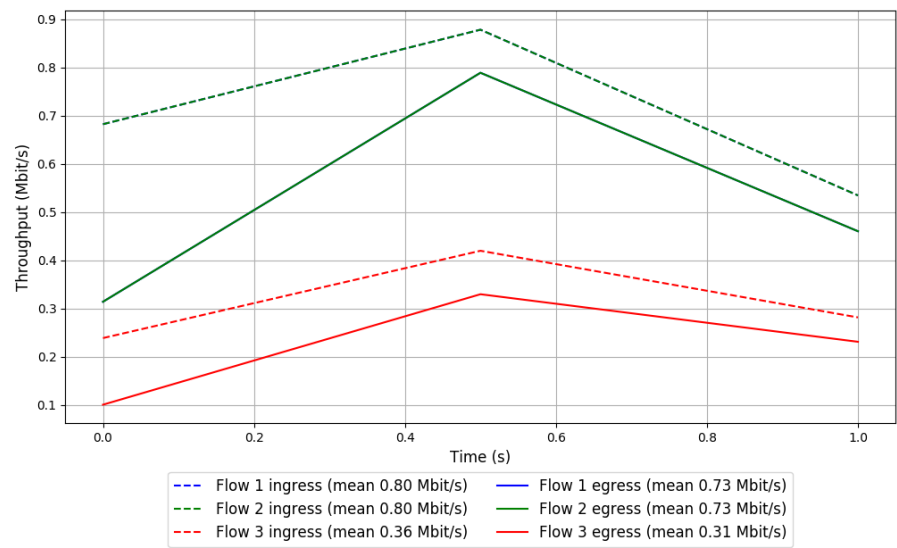


Run 7: Statistics of Sprout

Start at: 2017-11-30 21:32:02

End at: 2017-11-30 21:32:32

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 21:45:37

End at: 2017-11-30 21:46:07

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 112.428 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 112.402 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.724 ms

Loss rate: 1.19%

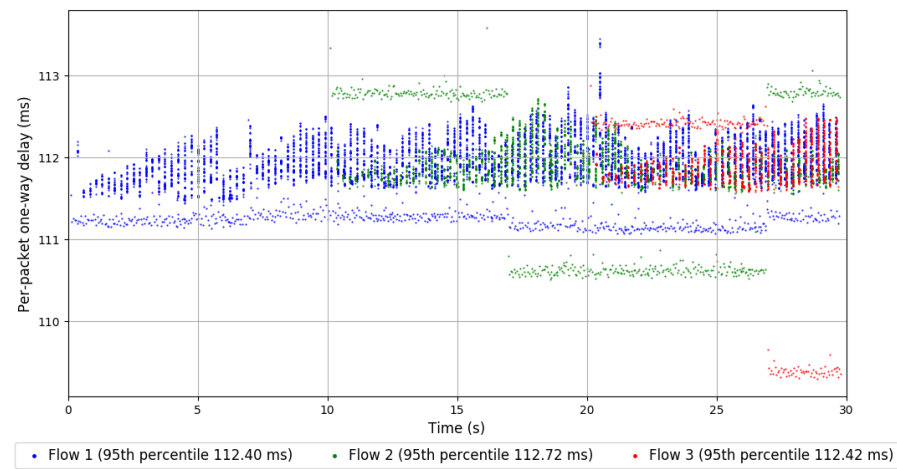
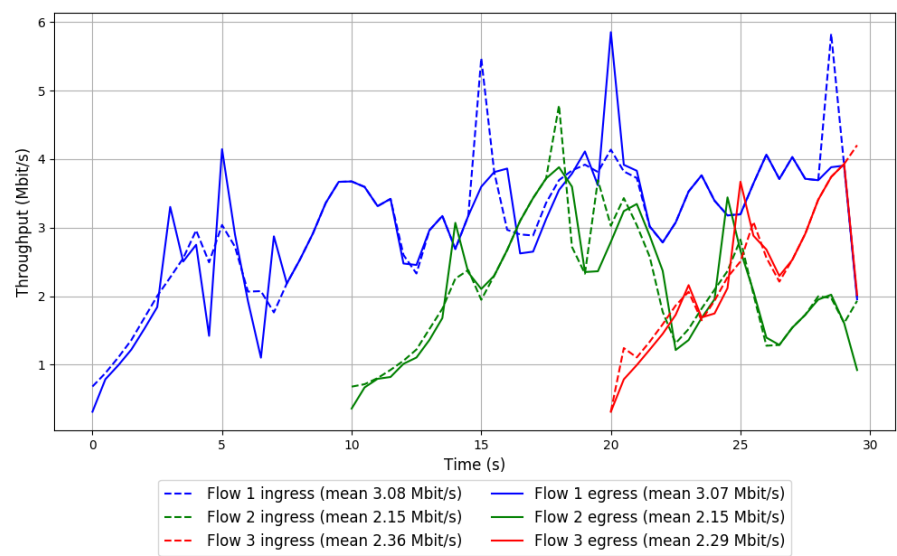
-- Flow 3:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 112.415 ms

Loss rate: 4.71%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 21:59:07

End at: 2017-11-30 21:59:37

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 112.350 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 112.411 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 112.075 ms

Loss rate: 1.31%

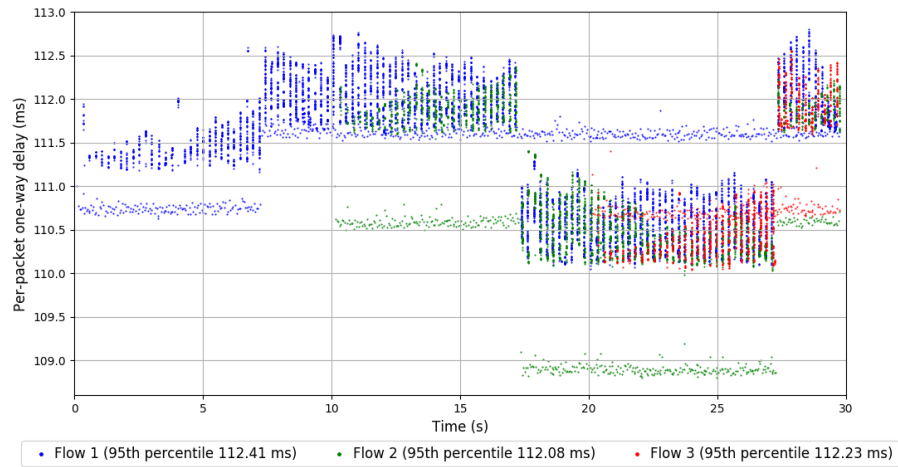
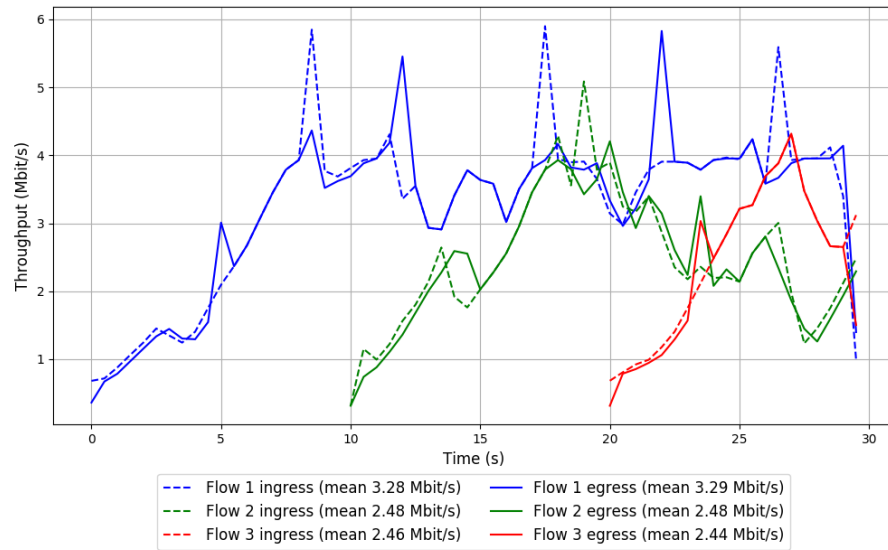
-- Flow 3:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 112.231 ms

Loss rate: 3.34%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-30 22:12:52

End at: 2017-11-30 22:13:22

Below is generated by plot.py at 2017-12-01 01:02:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 112.427 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 112.453 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 112.394 ms

Loss rate: 1.22%

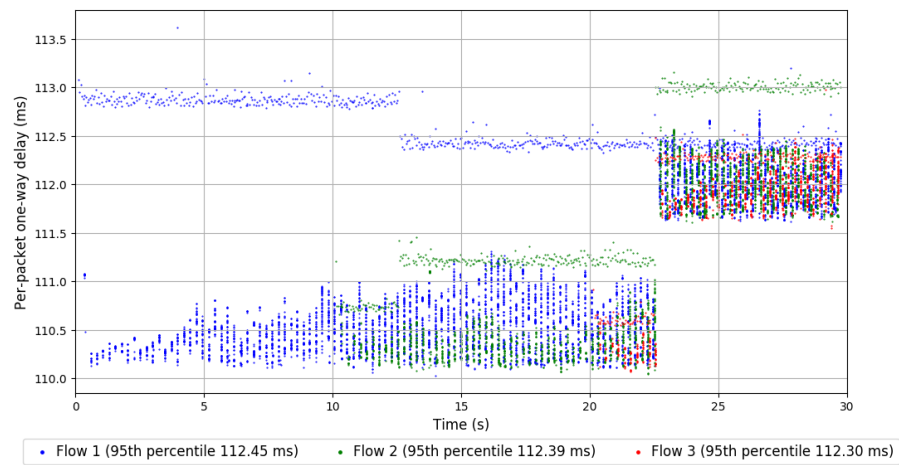
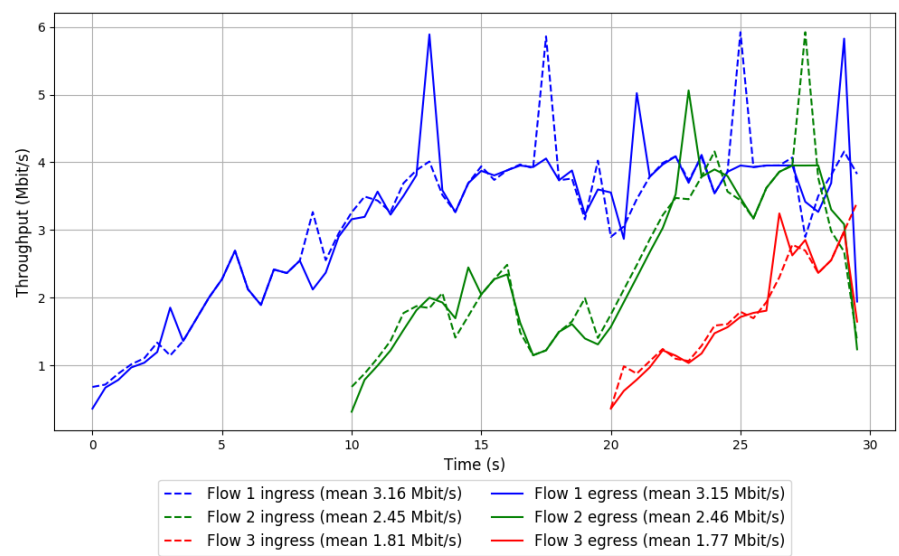
-- Flow 3:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 112.299 ms

Loss rate: 4.94%

Run 10: Report of Sprout — Data Link

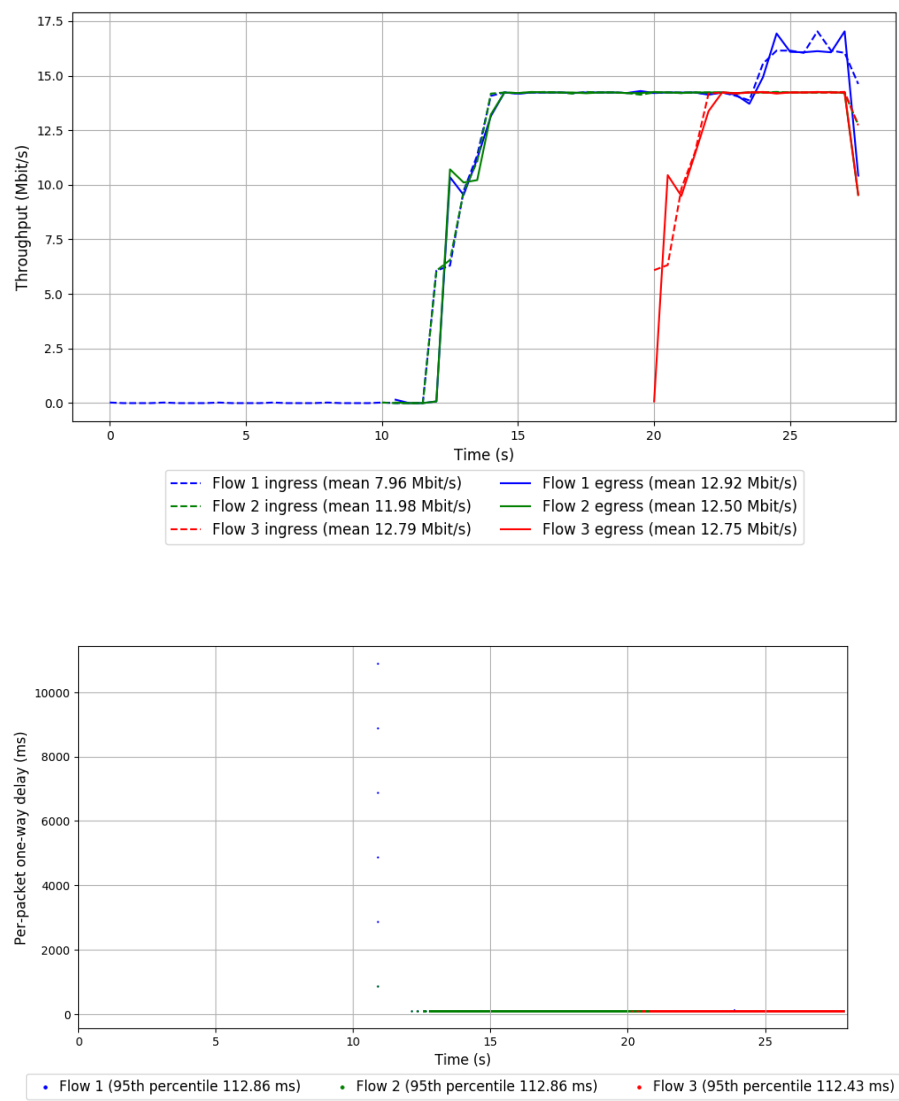


Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 20:09:53

End at: 2017-11-30 20:10:23

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

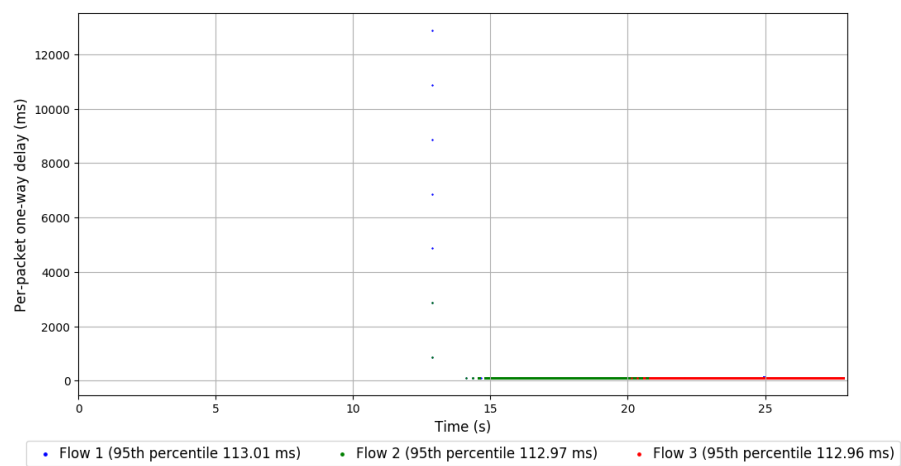
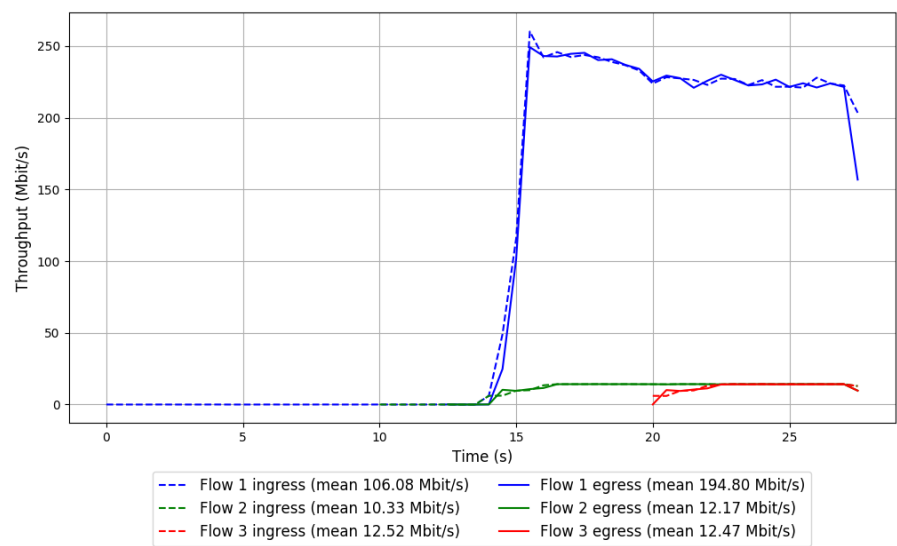


Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 20:22:57

End at: 2017-11-30 20:23:27

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

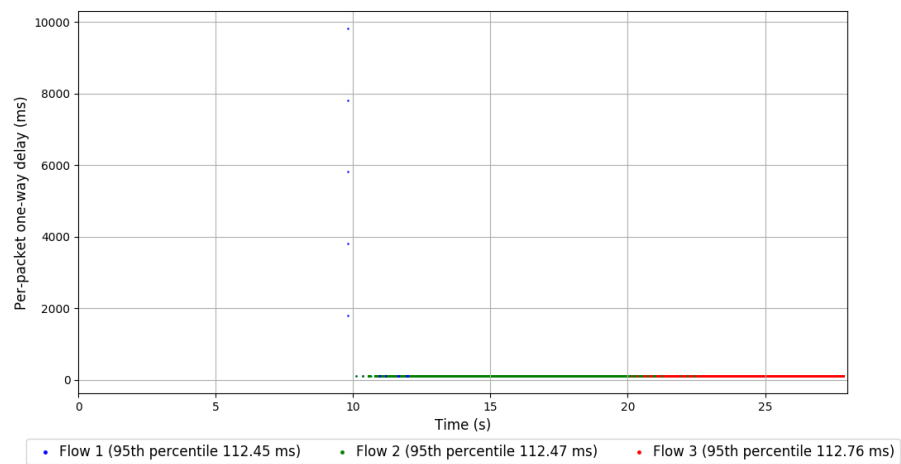
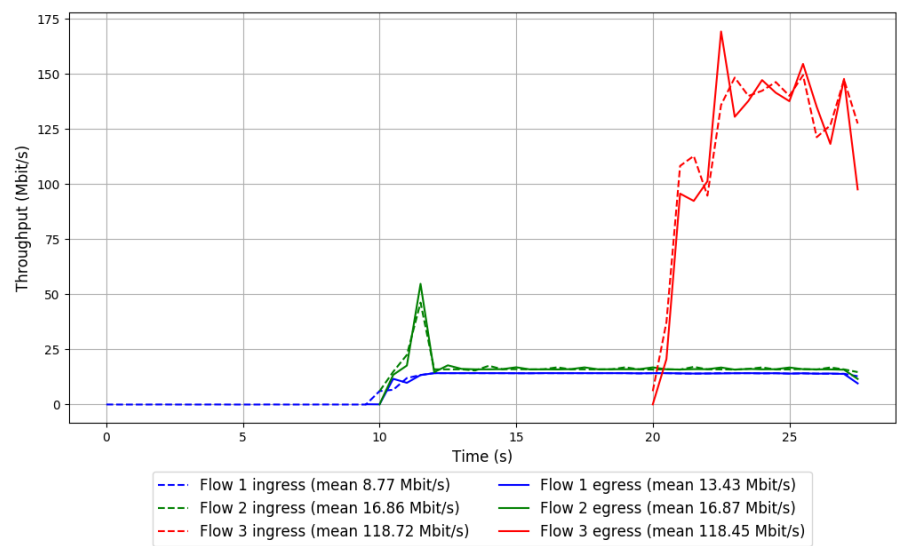


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 20:36:10

End at: 2017-11-30 20:36:40

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

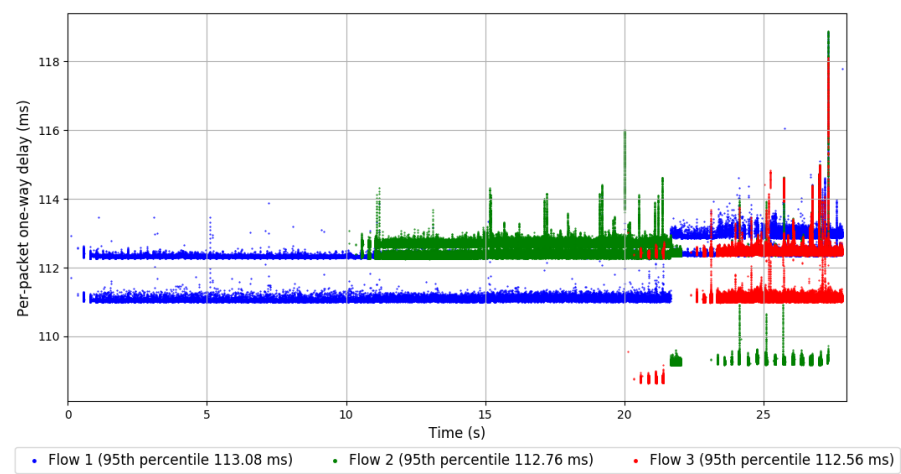
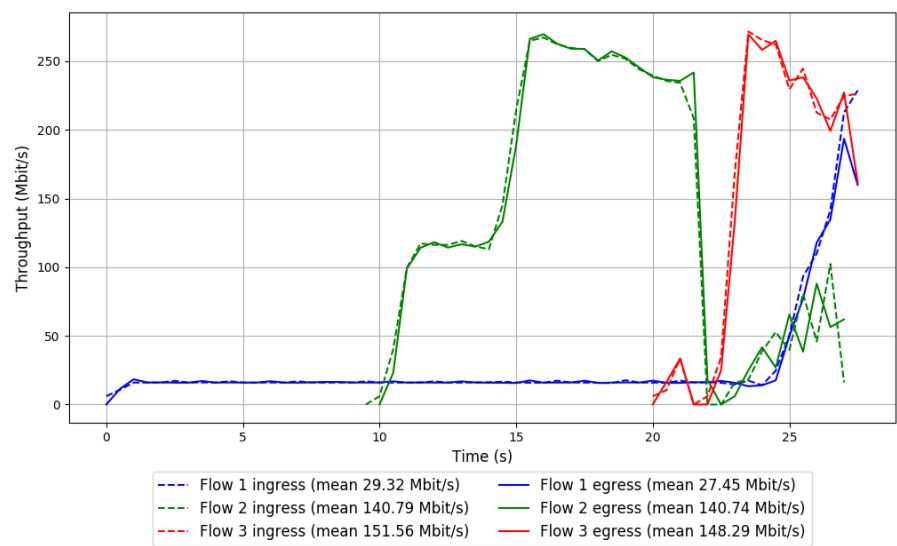


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 20:49:21
End at: 2017-11-30 20:49:51

# Below is generated by plot.py at 2017-12-01 01:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 156.07 Mbit/s
95th percentile per-packet one-way delay: 112.945 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 27.45 Mbit/s
95th percentile per-packet one-way delay: 113.078 ms
Loss rate: 7.11%
-- Flow 2:
Average throughput: 140.74 Mbit/s
95th percentile per-packet one-way delay: 112.756 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.29 Mbit/s
95th percentile per-packet one-way delay: 112.561 ms
Loss rate: 4.90%
```

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

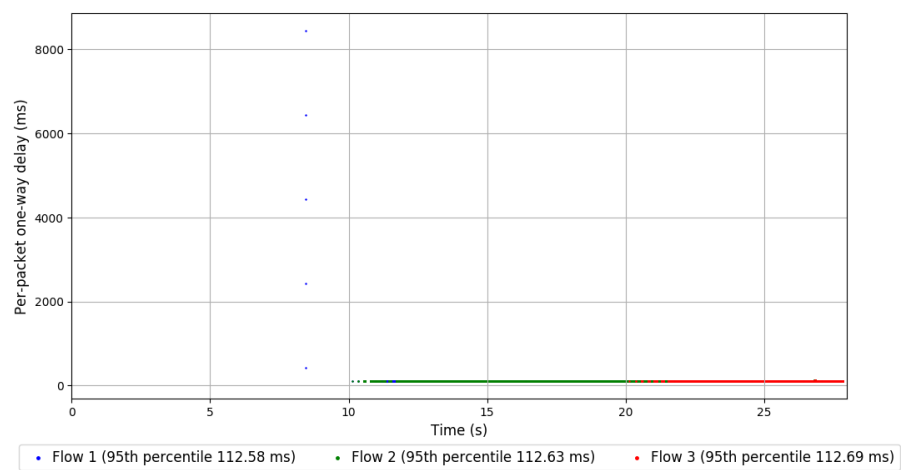
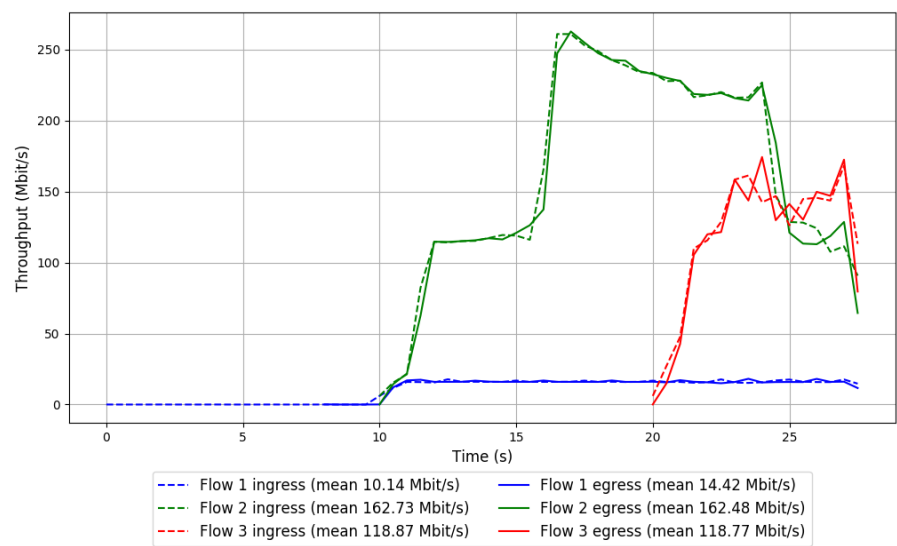


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 21:02:41

End at: 2017-11-30 21:03:11

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 21:16:08

End at: 2017-11-30 21:16:38

Below is generated by plot.py at 2017-12-01 01:04:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.24 Mbit/s

95th percentile per-packet one-way delay: 112.799 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 202.97 Mbit/s

95th percentile per-packet one-way delay: 112.800 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 112.803 ms

Loss rate: 0.74%

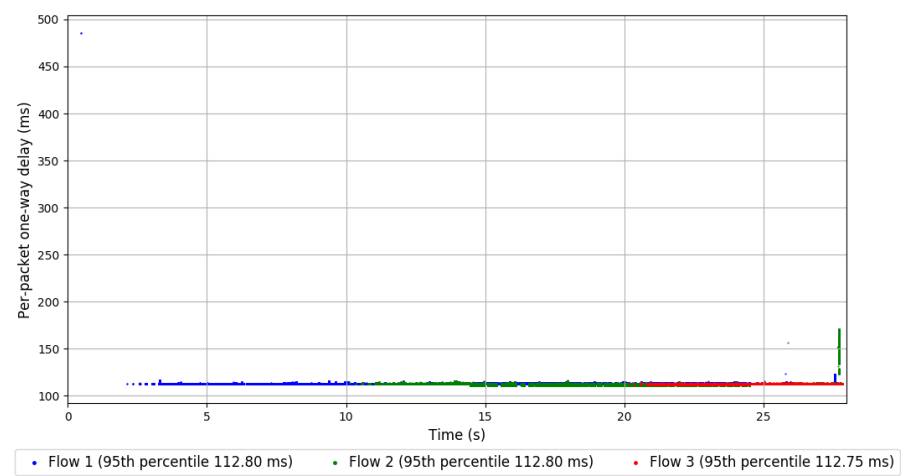
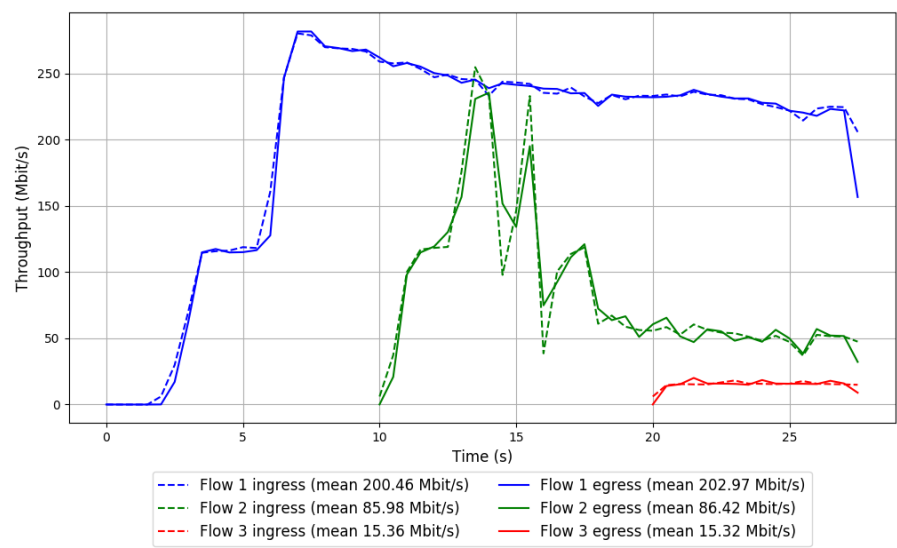
-- Flow 3:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 112.752 ms

Loss rate: 3.07%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 21:29:42

End at: 2017-11-30 21:30:12

Below is generated by plot.py at 2017-12-01 01:04:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.84 Mbit/s

95th percentile per-packet one-way delay: 111.574 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 104.62 Mbit/s

95th percentile per-packet one-way delay: 111.529 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 173.87 Mbit/s

95th percentile per-packet one-way delay: 111.553 ms

Loss rate: 1.06%

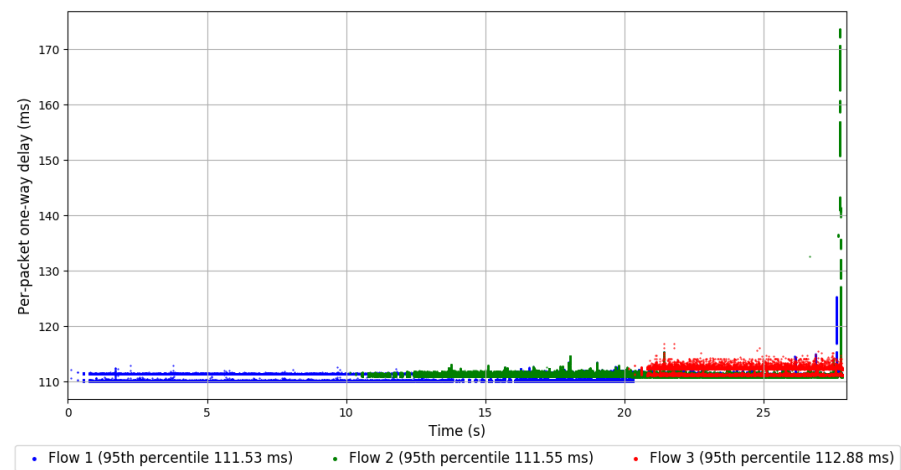
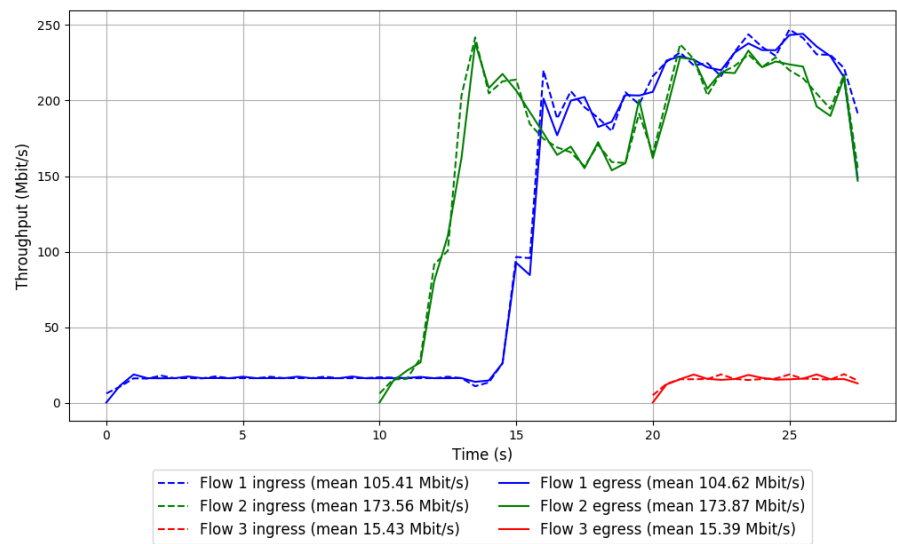
-- Flow 3:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 112.875 ms

Loss rate: 2.98%

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

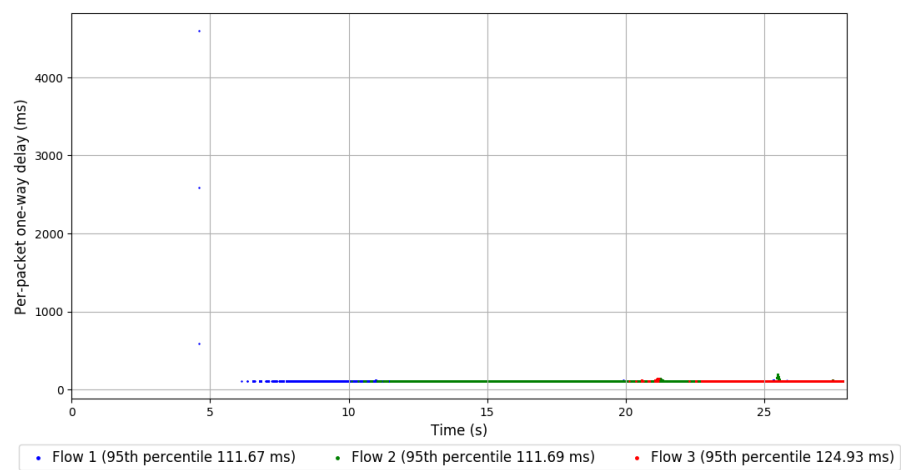
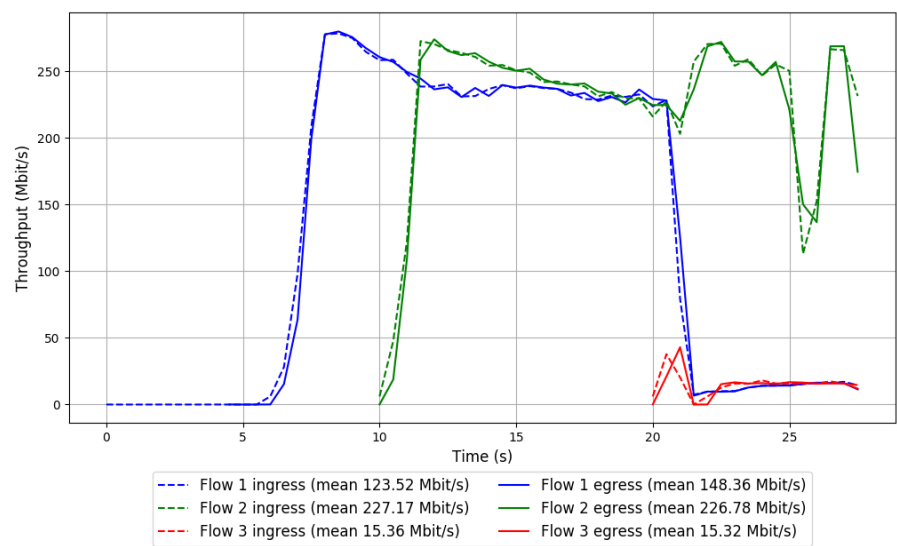


Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 21:43:18

End at: 2017-11-30 21:43:48

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

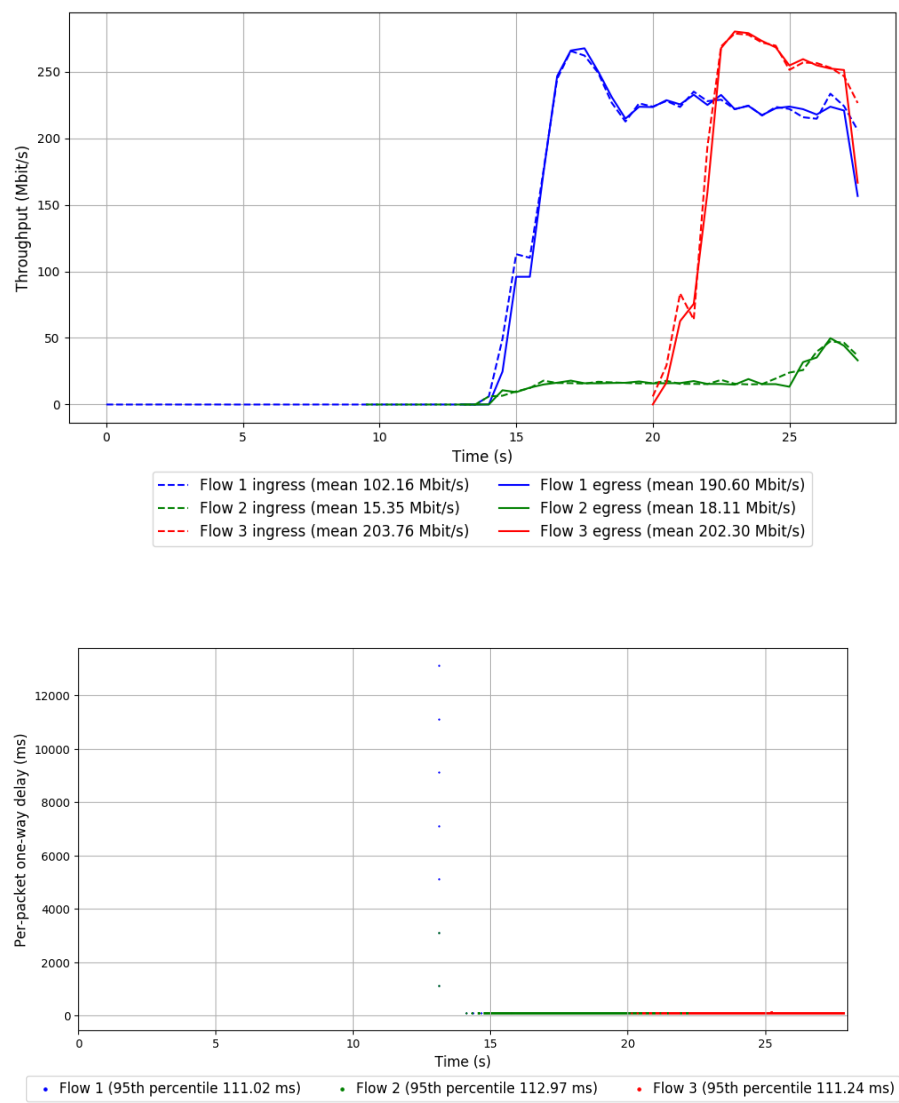


Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 21:56:51

End at: 2017-11-30 21:57:21

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

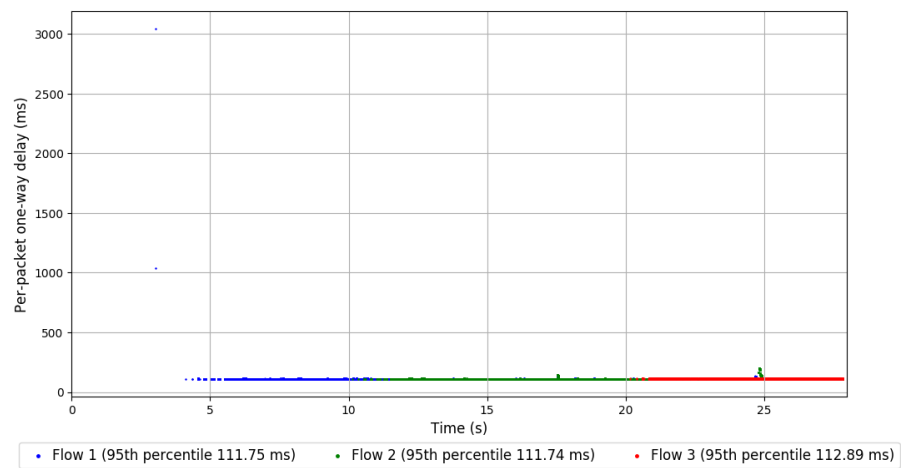
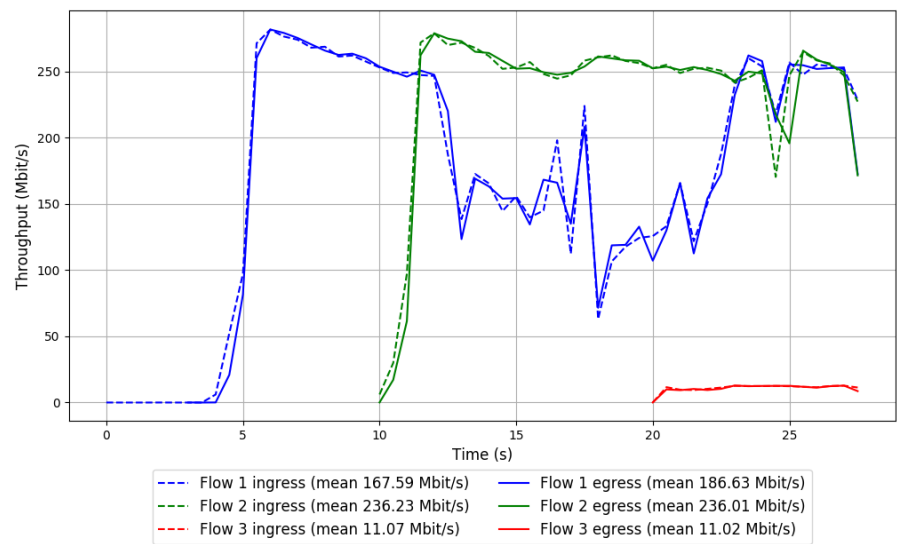


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 22:10:20
End at: 2017-11-30 22:10:50

# Below is generated by plot.py at 2017-12-01 01:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.67 Mbit/s
95th percentile per-packet one-way delay: 111.753 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 186.63 Mbit/s
95th percentile per-packet one-way delay: 111.747 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 236.01 Mbit/s
95th percentile per-packet one-way delay: 111.737 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 112.892 ms
Loss rate: 3.23%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 20:06:20

End at: 2017-11-30 20:06:50

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 113.201 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 113.204 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 1.42%

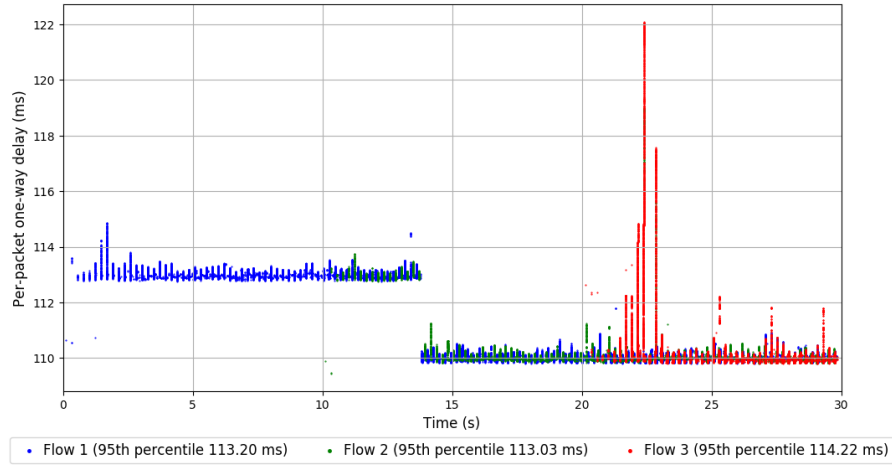
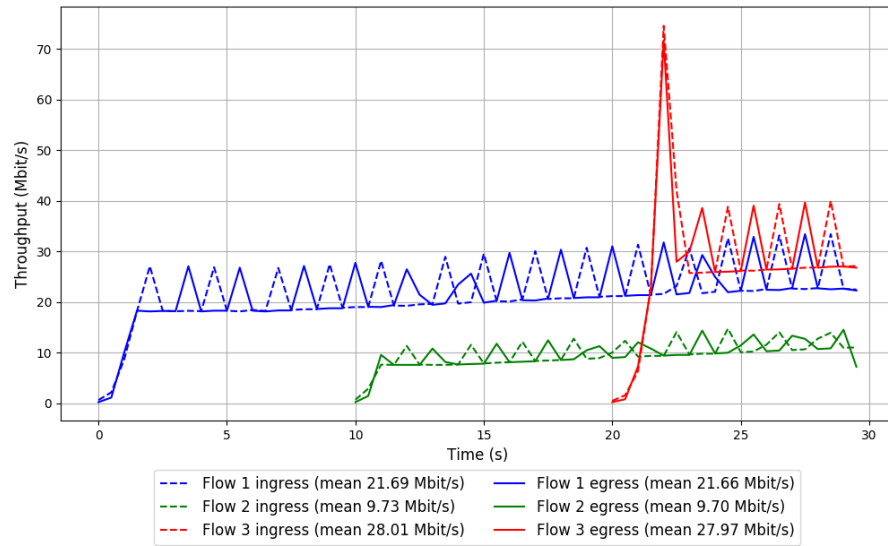
-- Flow 3:

Average throughput: 27.97 Mbit/s

95th percentile per-packet one-way delay: 114.225 ms

Loss rate: 2.43%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 20:19:24

End at: 2017-11-30 20:19:54

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 115.483 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 116.119 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 25.55 Mbit/s

95th percentile per-packet one-way delay: 115.043 ms

Loss rate: 0.79%

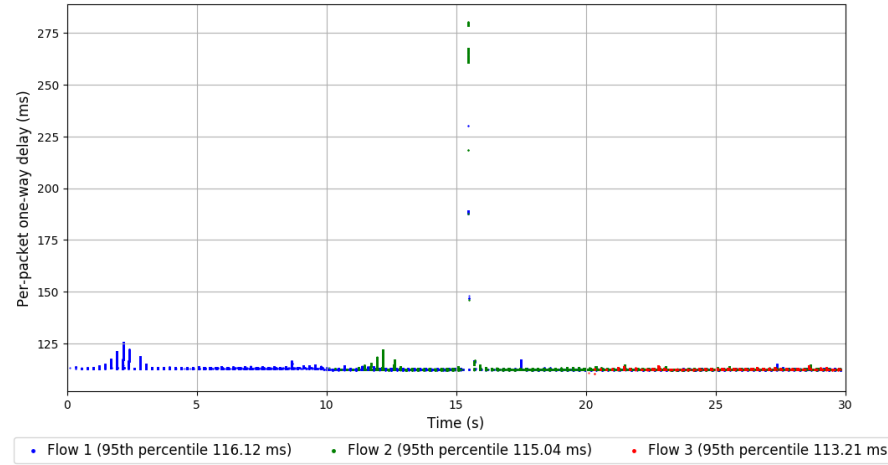
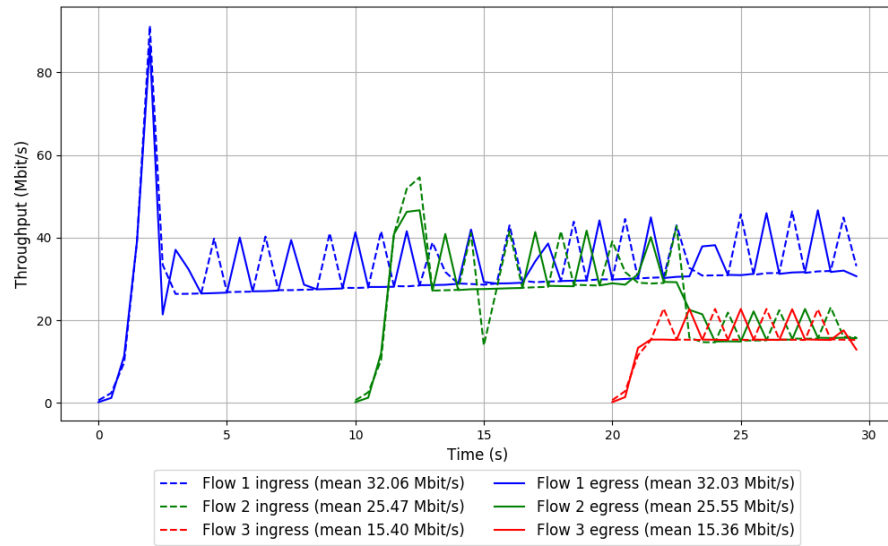
-- Flow 3:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 113.214 ms

Loss rate: 2.50%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 20:32:37

End at: 2017-11-30 20:33:07

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 113.579 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 24.33 Mbit/s

95th percentile per-packet one-way delay: 112.966 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 112.758 ms

Loss rate: 2.17%

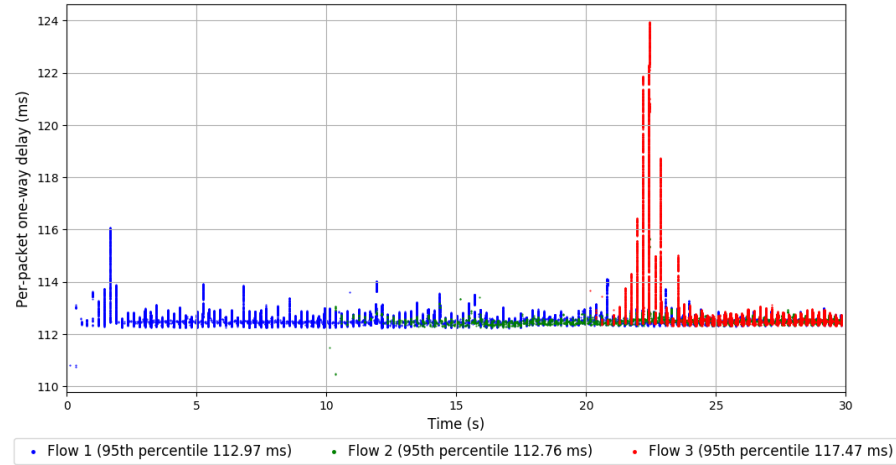
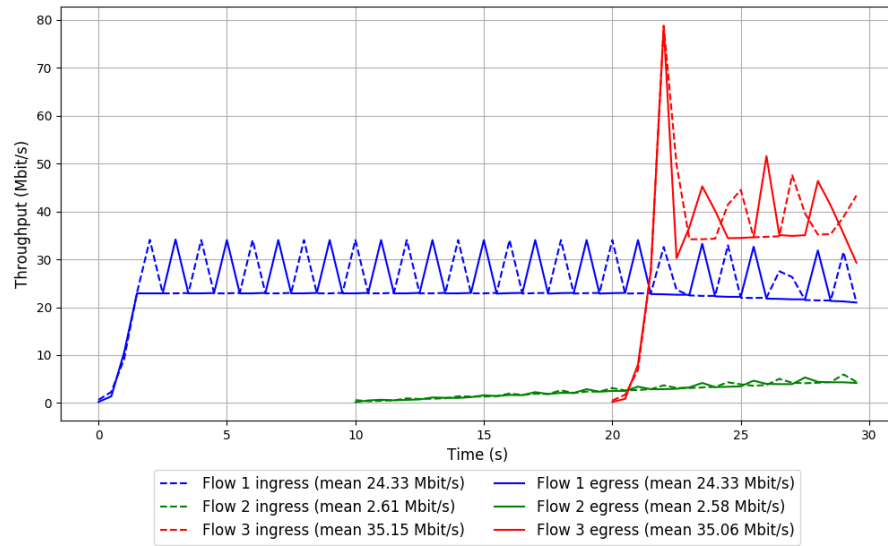
-- Flow 3:

Average throughput: 35.06 Mbit/s

95th percentile per-packet one-way delay: 117.468 ms

Loss rate: 2.54%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 20:45:46

End at: 2017-11-30 20:46:16

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.49 Mbit/s

95th percentile per-packet one-way delay: 113.432 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 113.994 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 54.39 Mbit/s

95th percentile per-packet one-way delay: 113.175 ms

Loss rate: 1.20%

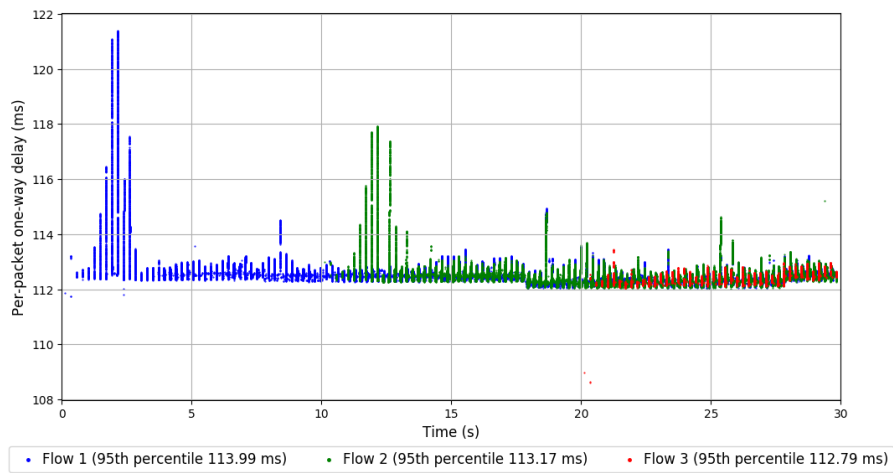
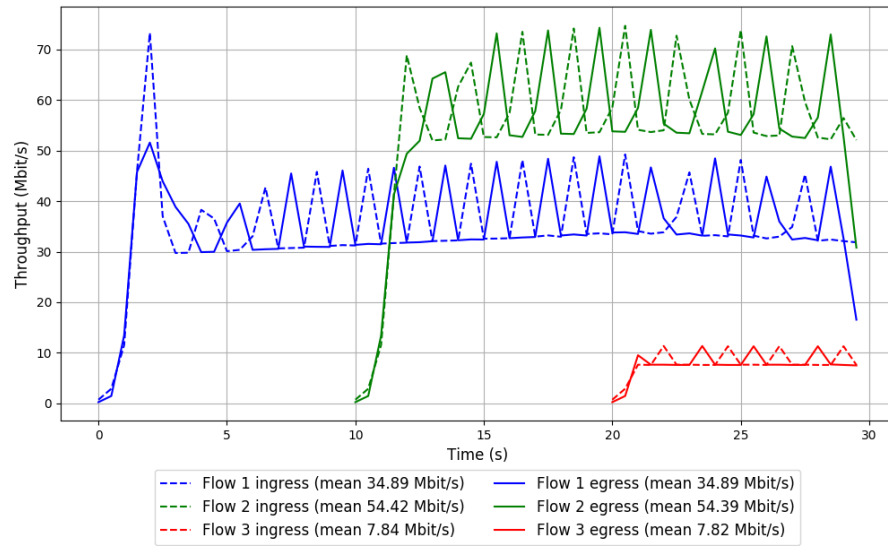
-- Flow 3:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 112.789 ms

Loss rate: 2.44%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 20:59:09

End at: 2017-11-30 20:59:39

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.40 Mbit/s

95th percentile per-packet one-way delay: 112.972 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 10.57 Mbit/s

95th percentile per-packet one-way delay: 112.897 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 112.951 ms

Loss rate: 1.15%

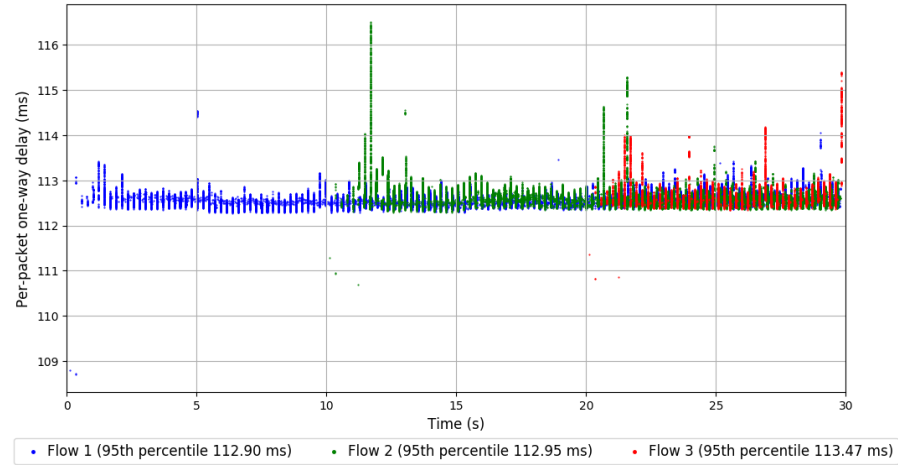
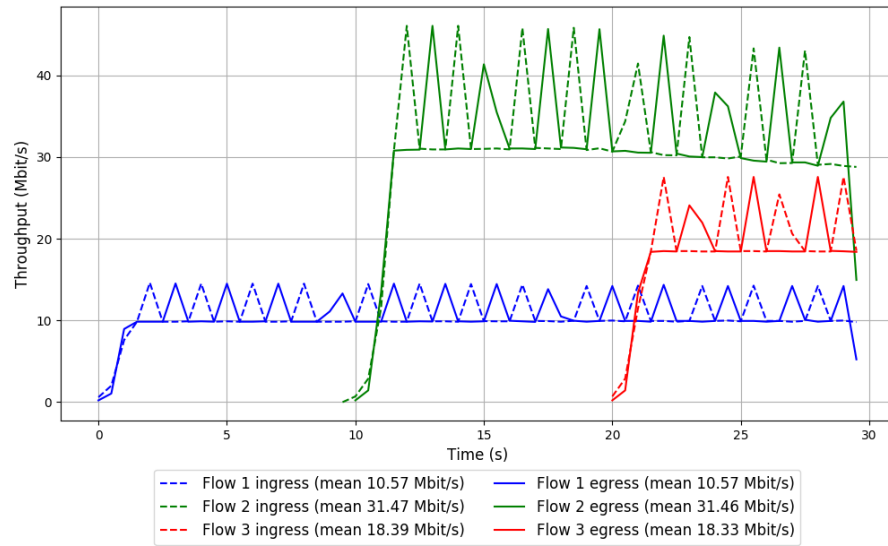
-- Flow 3:

Average throughput: 18.33 Mbit/s

95th percentile per-packet one-way delay: 113.471 ms

Loss rate: 2.54%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 21:12:34

End at: 2017-11-30 21:13:04

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 113.476 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 113.056 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 30.38 Mbit/s

95th percentile per-packet one-way delay: 113.575 ms

Loss rate: 1.19%

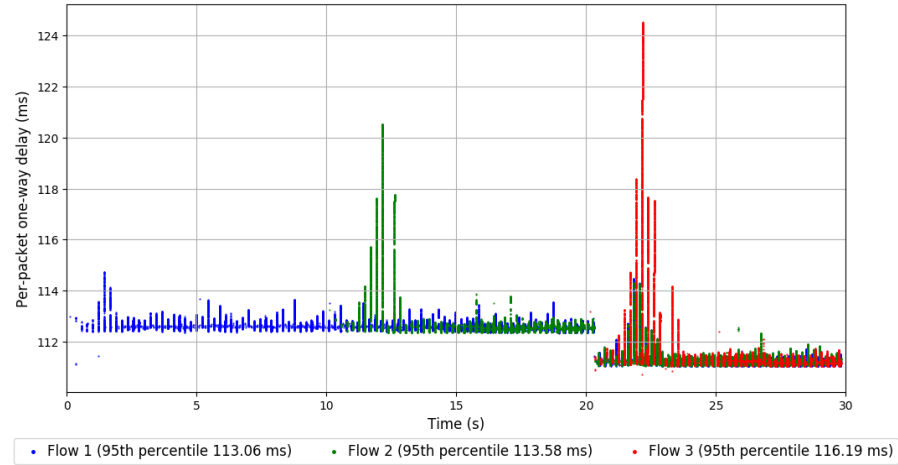
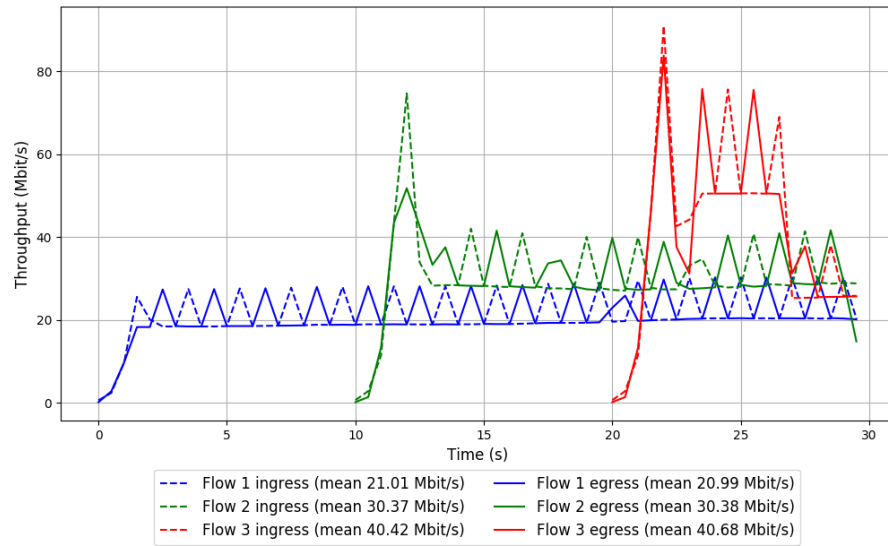
-- Flow 3:

Average throughput: 40.68 Mbit/s

95th percentile per-packet one-way delay: 116.192 ms

Loss rate: 1.63%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 21:26:08

End at: 2017-11-30 21:26:38

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.06 Mbit/s

95th percentile per-packet one-way delay: 113.204 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 34.76 Mbit/s

95th percentile per-packet one-way delay: 112.855 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 26.41 Mbit/s

95th percentile per-packet one-way delay: 114.809 ms

Loss rate: 1.12%

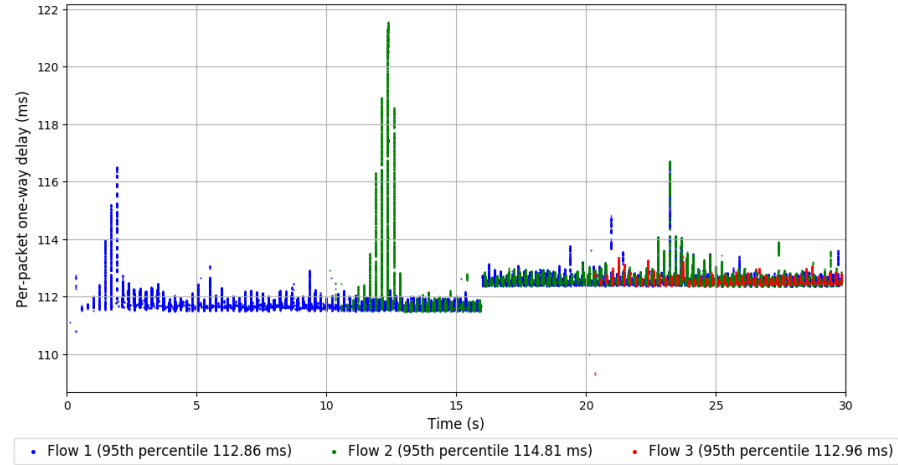
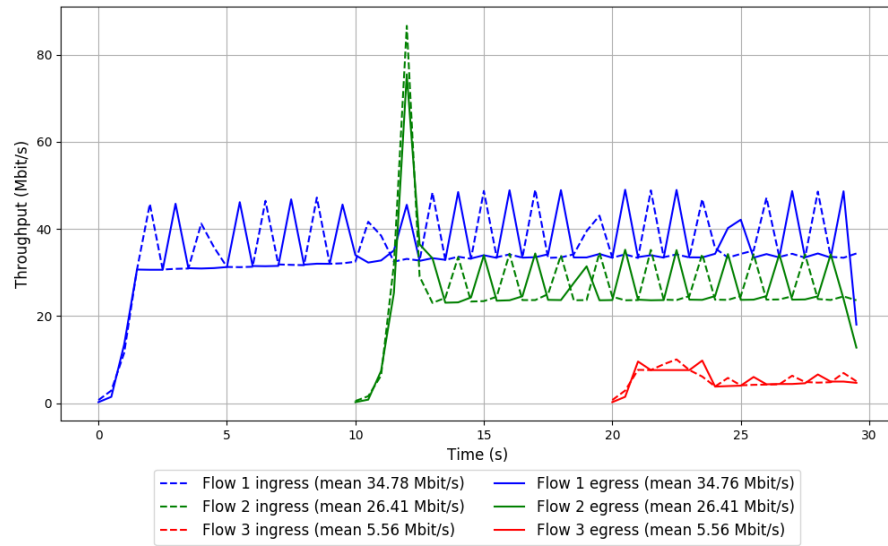
-- Flow 3:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 112.961 ms

Loss rate: 2.39%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 21:39:44

End at: 2017-11-30 21:40:14

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.63 Mbit/s

95th percentile per-packet one-way delay: 113.127 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 22.66 Mbit/s

95th percentile per-packet one-way delay: 112.464 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 40.95 Mbit/s

95th percentile per-packet one-way delay: 112.598 ms

Loss rate: 1.25%

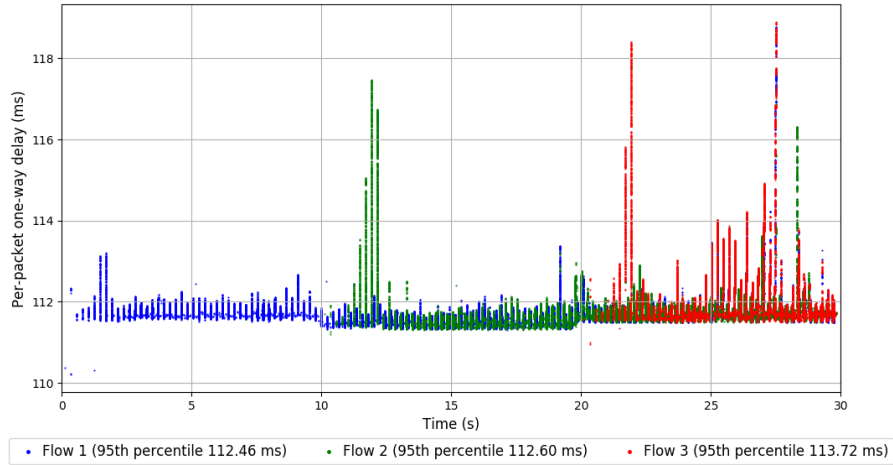
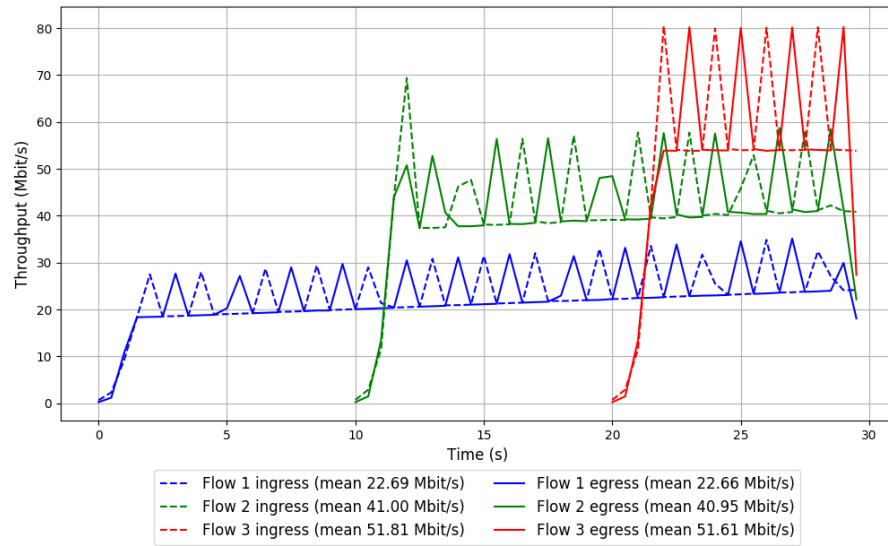
-- Flow 3:

Average throughput: 51.61 Mbit/s

95th percentile per-packet one-way delay: 113.722 ms

Loss rate: 2.63%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 21:53:19

End at: 2017-11-30 21:53:49

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 113.398 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 112.106 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 112.111 ms

Loss rate: 0.95%

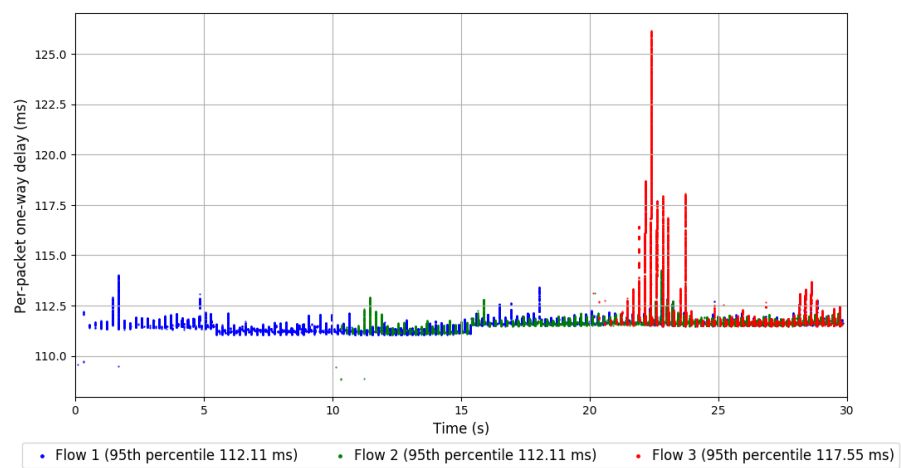
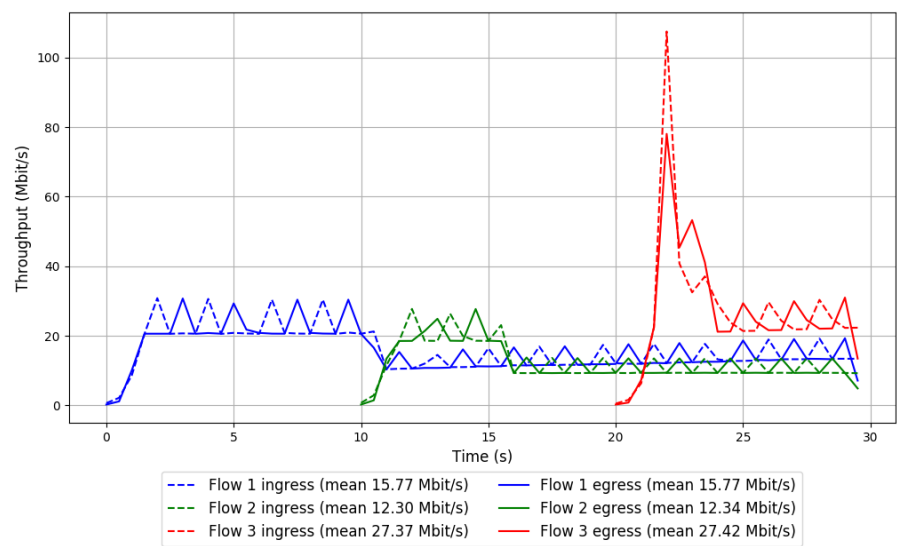
-- Flow 3:

Average throughput: 27.42 Mbit/s

95th percentile per-packet one-way delay: 117.554 ms

Loss rate: 2.06%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 22:06:47

End at: 2017-11-30 22:07:17

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 113.385 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 112.186 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 113.007 ms

Loss rate: 1.21%

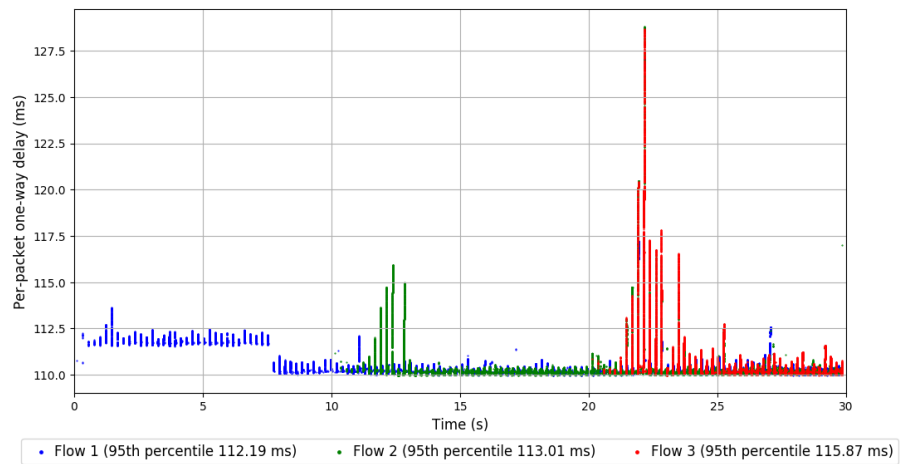
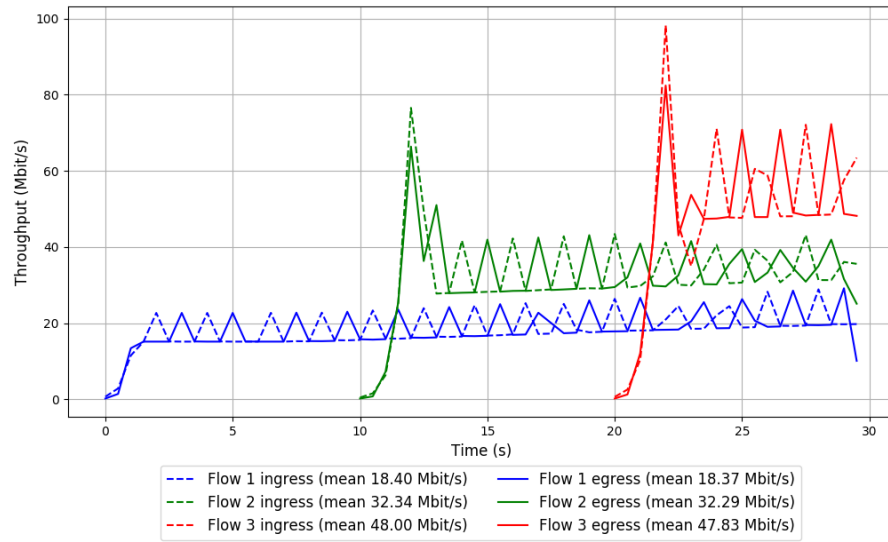
-- Flow 3:

Average throughput: 47.83 Mbit/s

95th percentile per-packet one-way delay: 115.866 ms

Loss rate: 2.55%

Run 10: Report of TCP Vegas — Data Link

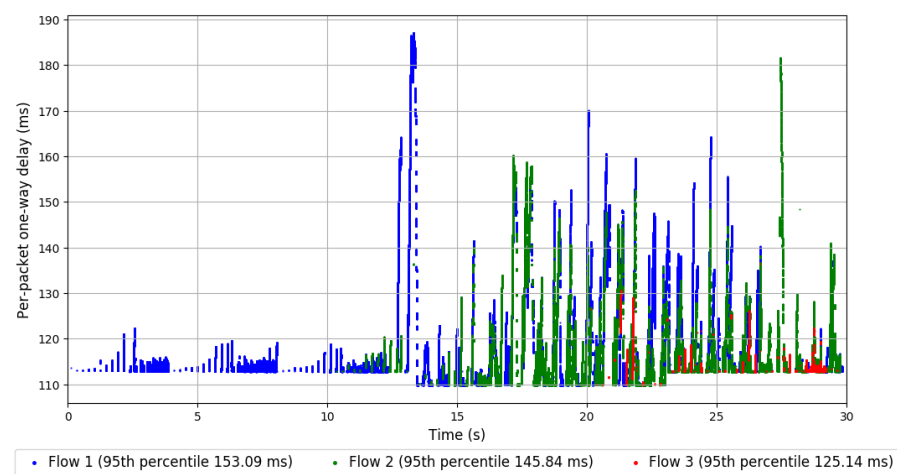
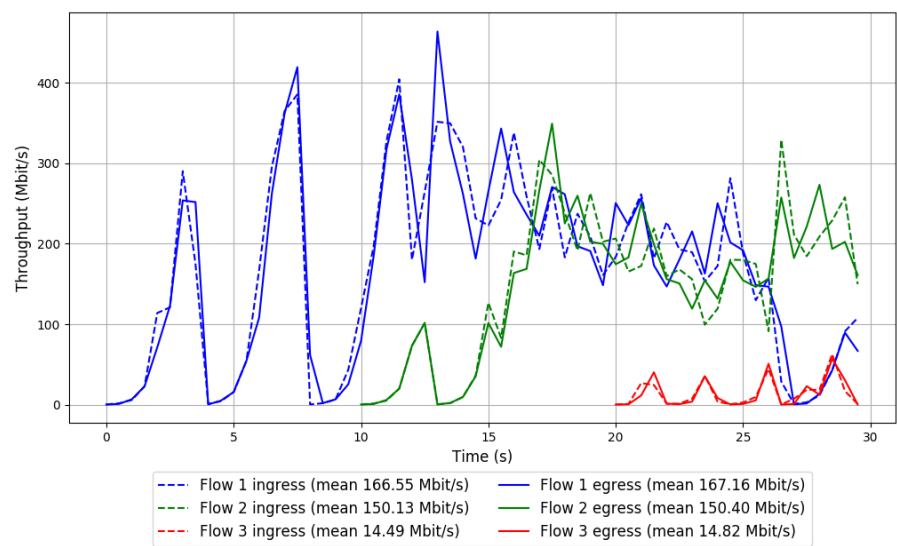


```
Run 1: Statistics of Verus

Start at: 2017-11-30 20:10:41
End at: 2017-11-30 20:11:11

# Below is generated by plot.py at 2017-12-01 01:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.21 Mbit/s
95th percentile per-packet one-way delay: 150.847 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 167.16 Mbit/s
95th percentile per-packet one-way delay: 153.091 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 150.40 Mbit/s
95th percentile per-packet one-way delay: 145.838 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 14.82 Mbit/s
95th percentile per-packet one-way delay: 125.137 ms
Loss rate: 0.23%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 20:23:56

End at: 2017-11-30 20:24:26

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.95 Mbit/s

95th percentile per-packet one-way delay: 164.302 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 125.25 Mbit/s

95th percentile per-packet one-way delay: 160.195 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 45.92 Mbit/s

95th percentile per-packet one-way delay: 246.717 ms

Loss rate: 1.58%

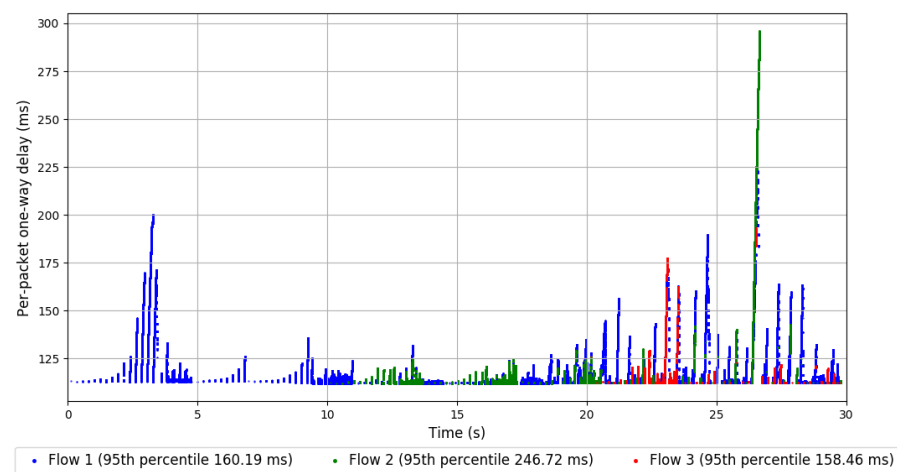
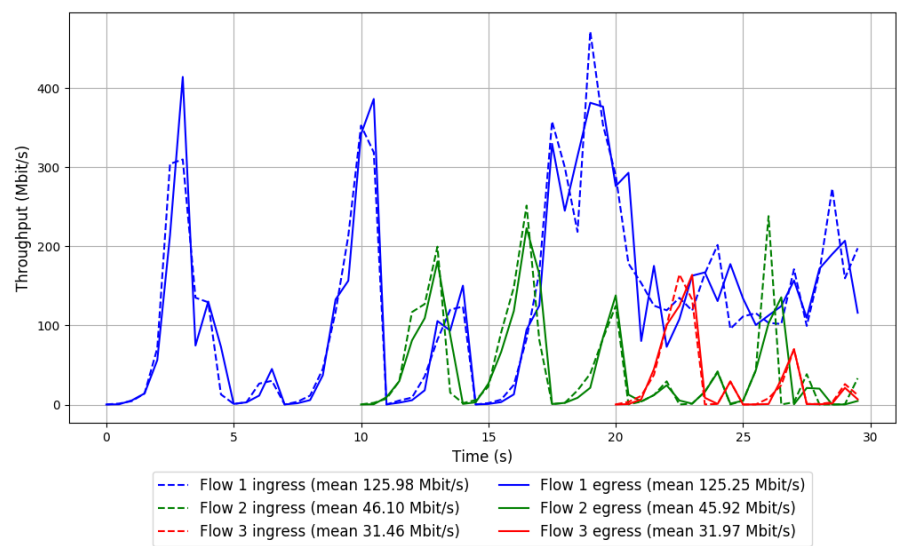
-- Flow 3:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 158.458 ms

Loss rate: 1.91%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 20:37:02

End at: 2017-11-30 20:37:32

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.73 Mbit/s

95th percentile per-packet one-way delay: 217.134 ms

Loss rate: 3.10%

-- Flow 1:

Average throughput: 179.81 Mbit/s

95th percentile per-packet one-way delay: 245.648 ms

Loss rate: 3.01%

-- Flow 2:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 138.179 ms

Loss rate: 1.48%

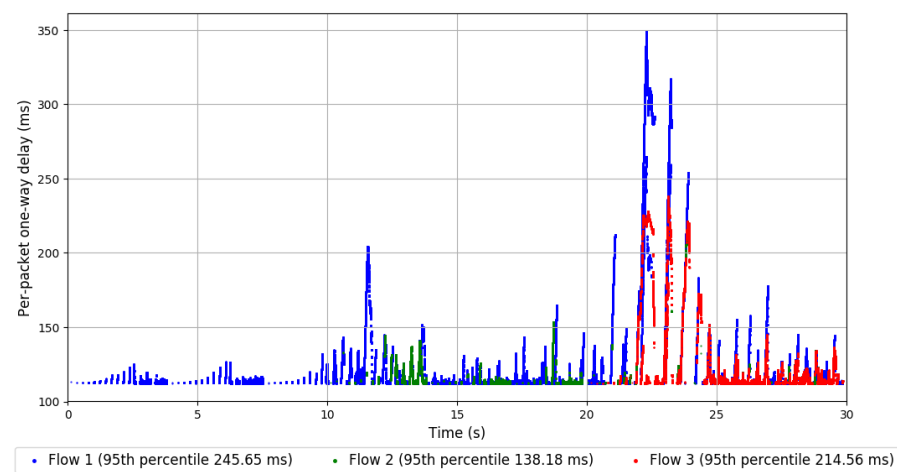
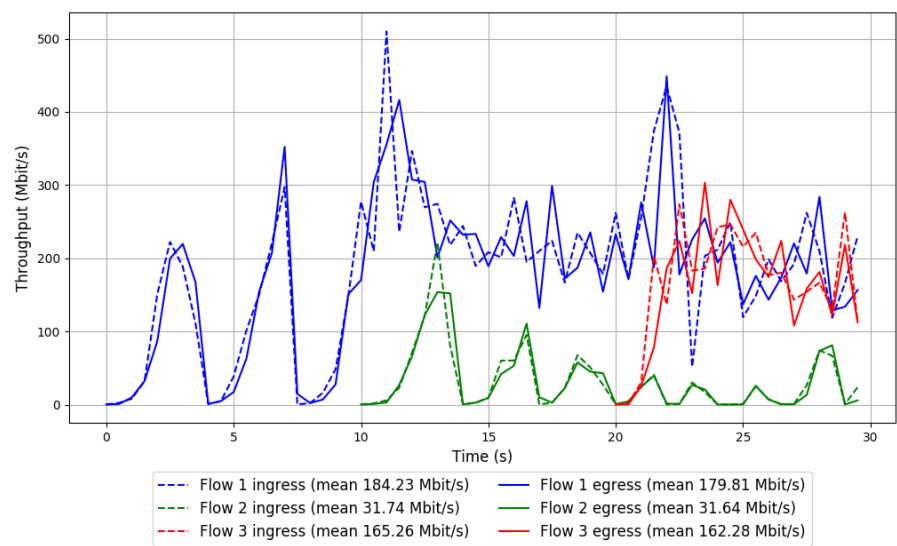
-- Flow 3:

Average throughput: 162.28 Mbit/s

95th percentile per-packet one-way delay: 214.555 ms

Loss rate: 4.04%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 20:50:23

End at: 2017-11-30 20:50:53

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.69 Mbit/s

95th percentile per-packet one-way delay: 217.766 ms

Loss rate: 3.83%

-- Flow 1:

Average throughput: 125.08 Mbit/s

95th percentile per-packet one-way delay: 215.634 ms

Loss rate: 3.42%

-- Flow 2:

Average throughput: 147.10 Mbit/s

95th percentile per-packet one-way delay: 219.389 ms

Loss rate: 3.77%

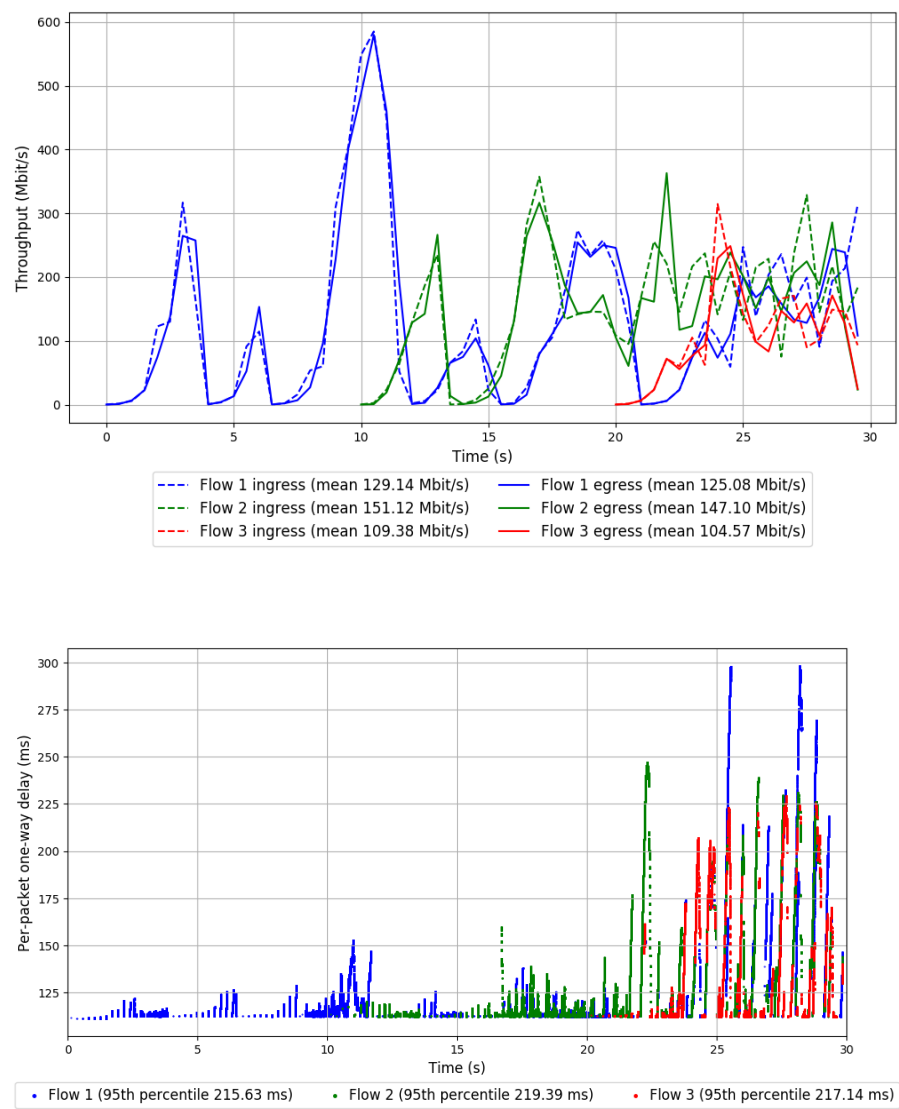
-- Flow 3:

Average throughput: 104.57 Mbit/s

95th percentile per-packet one-way delay: 217.137 ms

Loss rate: 5.44%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 21:03:47

End at: 2017-11-30 21:04:17

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.28 Mbit/s

95th percentile per-packet one-way delay: 243.672 ms

Loss rate: 3.63%

-- Flow 1:

Average throughput: 147.27 Mbit/s

95th percentile per-packet one-way delay: 248.949 ms

Loss rate: 4.12%

-- Flow 2:

Average throughput: 82.52 Mbit/s

95th percentile per-packet one-way delay: 191.167 ms

Loss rate: 2.17%

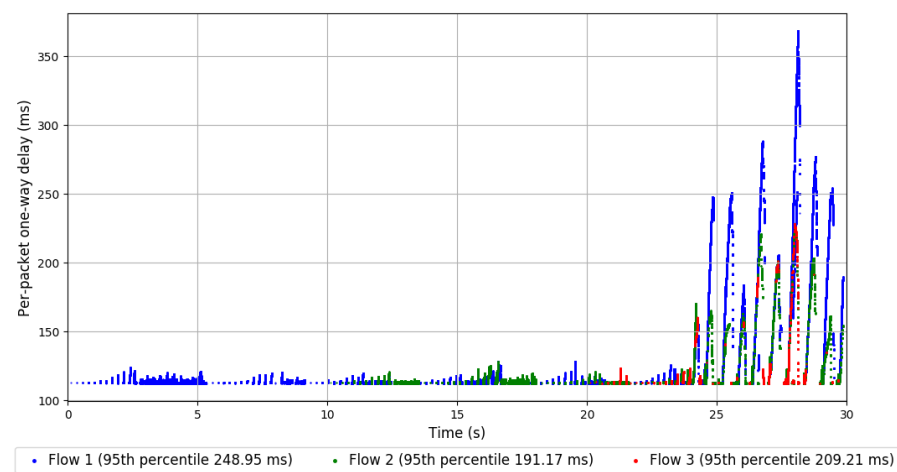
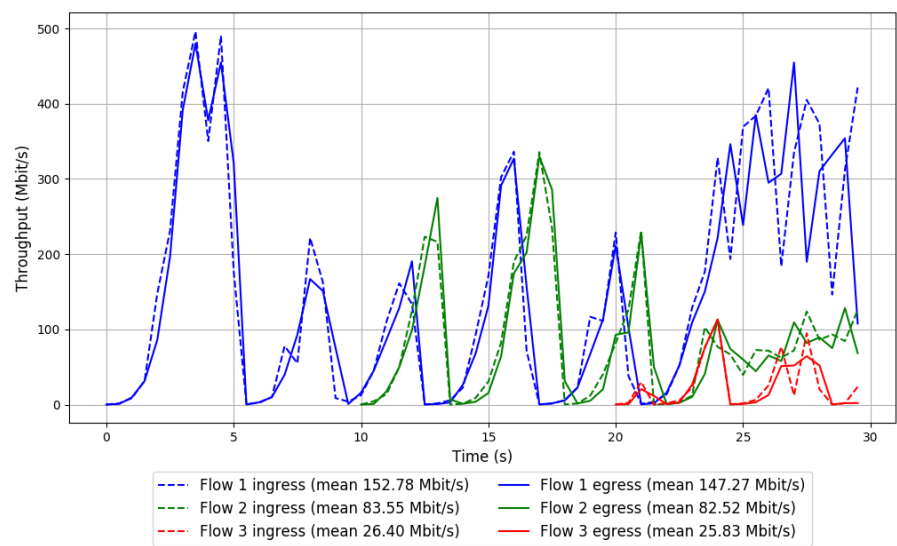
-- Flow 3:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 209.211 ms

Loss rate: 4.50%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 21:17:20

End at: 2017-11-30 21:17:50

Below is generated by plot.py at 2017-12-01 01:10:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.99 Mbit/s

95th percentile per-packet one-way delay: 147.585 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 218.41 Mbit/s

95th percentile per-packet one-way delay: 149.701 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 139.360 ms

Loss rate: 0.02%

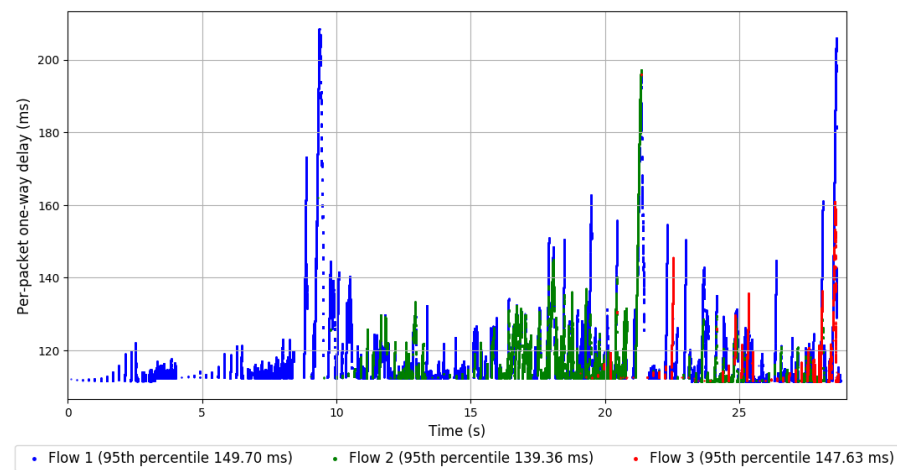
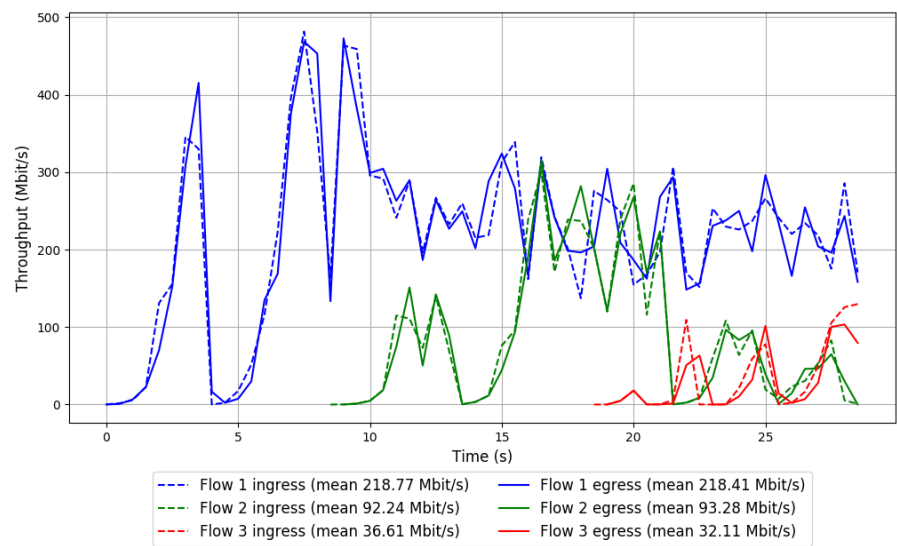
-- Flow 3:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 147.635 ms

Loss rate: 15.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 21:30:51

End at: 2017-11-30 21:31:21

Below is generated by plot.py at 2017-12-01 01:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.75 Mbit/s

95th percentile per-packet one-way delay: 220.195 ms

Loss rate: 3.92%

-- Flow 1:

Average throughput: 151.16 Mbit/s

95th percentile per-packet one-way delay: 140.974 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 208.80 Mbit/s

95th percentile per-packet one-way delay: 242.534 ms

Loss rate: 3.98%

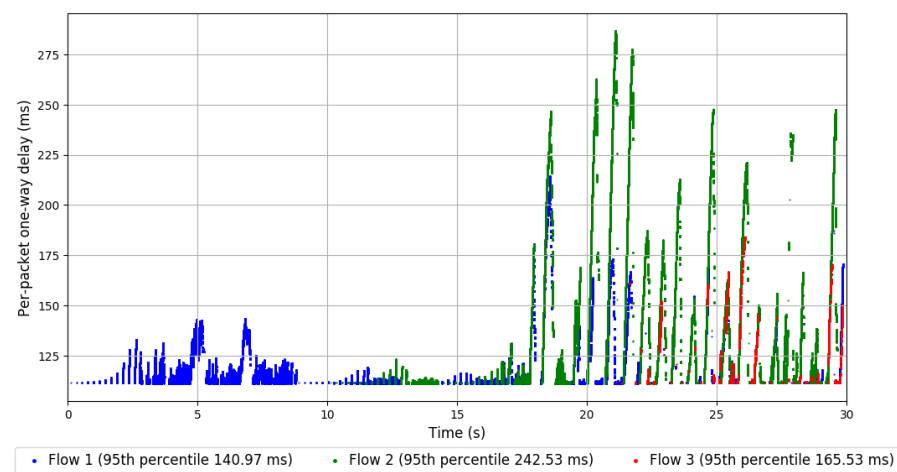
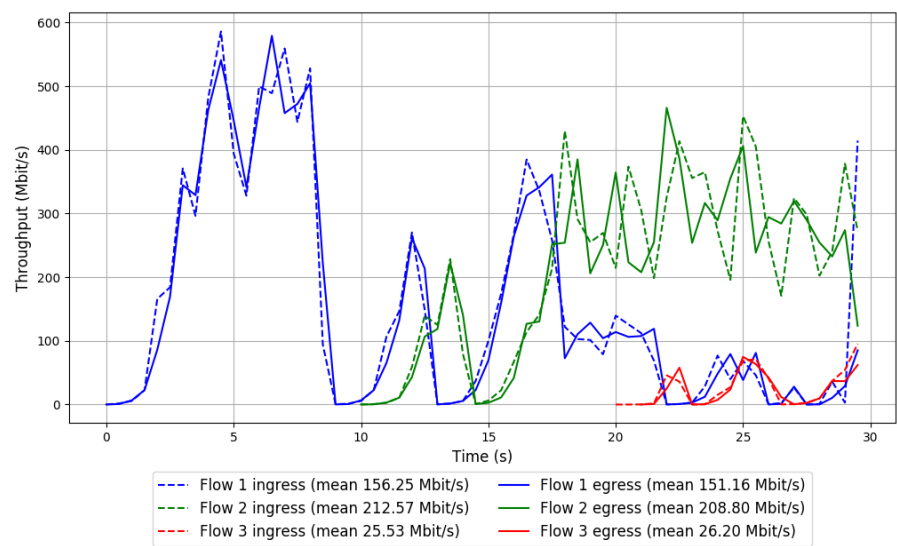
-- Flow 3:

Average throughput: 26.20 Mbit/s

95th percentile per-packet one-way delay: 165.530 ms

Loss rate: 10.07%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 21:44:32

End at: 2017-11-30 21:45:02

Below is generated by plot.py at 2017-12-01 01:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.44 Mbit/s

95th percentile per-packet one-way delay: 223.276 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 145.476 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 73.31 Mbit/s

95th percentile per-packet one-way delay: 132.360 ms

Loss rate: 0.60%

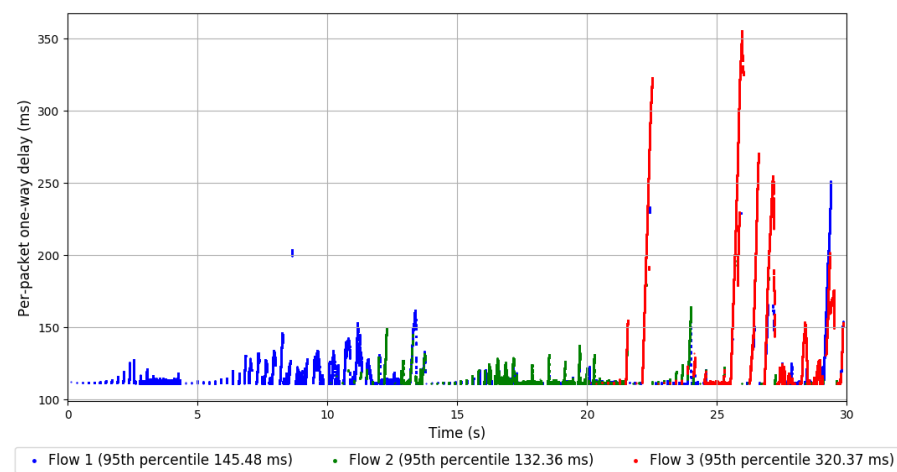
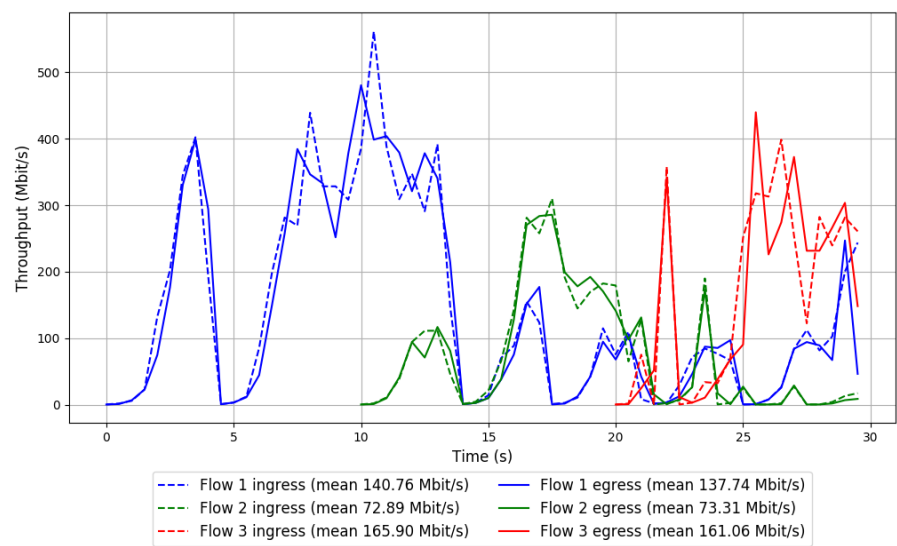
-- Flow 3:

Average throughput: 161.06 Mbit/s

95th percentile per-packet one-way delay: 320.370 ms

Loss rate: 4.93%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 21:57:54

End at: 2017-11-30 21:58:24

Below is generated by plot.py at 2017-12-01 01:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.93 Mbit/s

95th percentile per-packet one-way delay: 189.130 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 259.95 Mbit/s

95th percentile per-packet one-way delay: 195.699 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 106.34 Mbit/s

95th percentile per-packet one-way delay: 170.842 ms

Loss rate: 3.17%

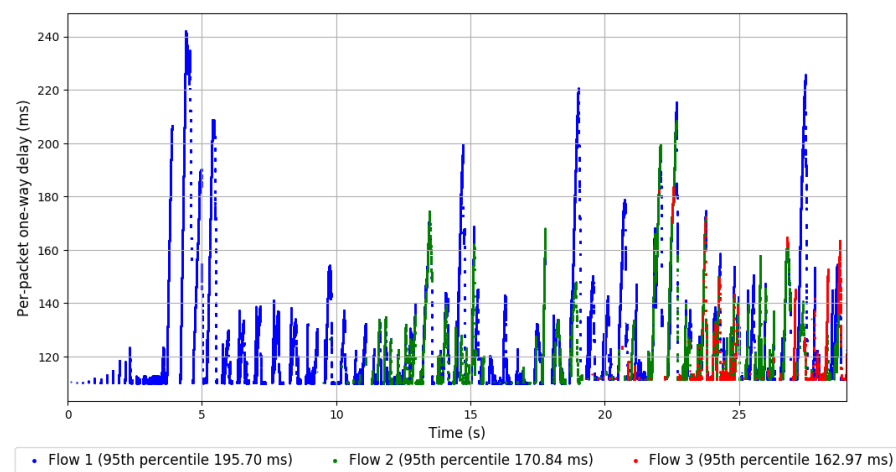
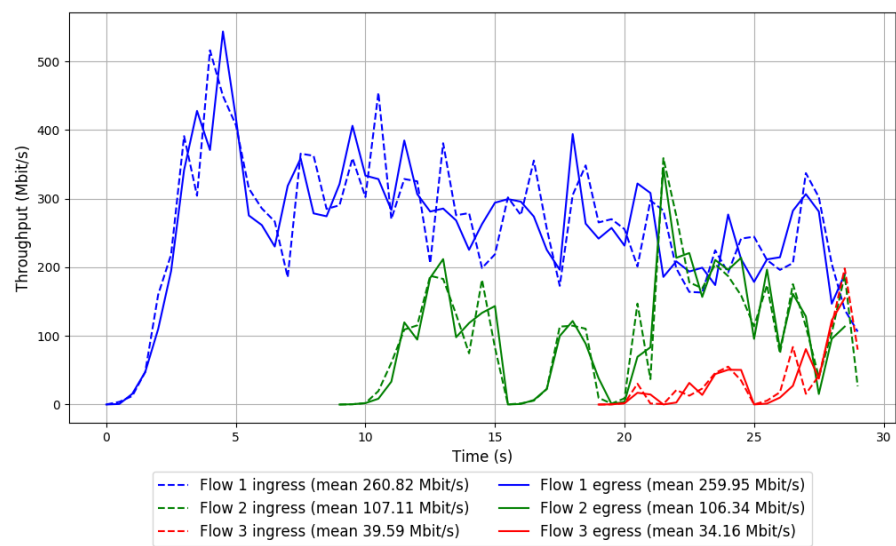
-- Flow 3:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 162.971 ms

Loss rate: 15.66%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 22:11:38

End at: 2017-11-30 22:12:08

Below is generated by plot.py at 2017-12-01 01:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.55 Mbit/s

95th percentile per-packet one-way delay: 202.156 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 258.19 Mbit/s

95th percentile per-packet one-way delay: 191.511 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 117.49 Mbit/s

95th percentile per-packet one-way delay: 284.461 ms

Loss rate: 5.35%

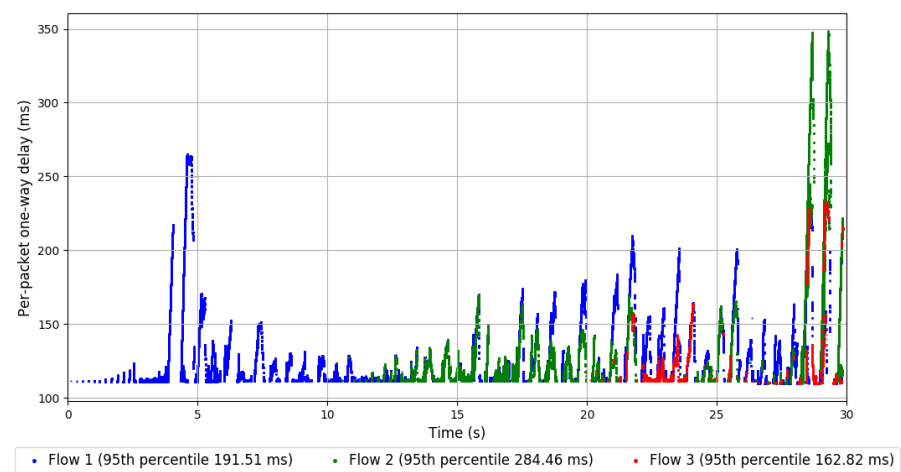
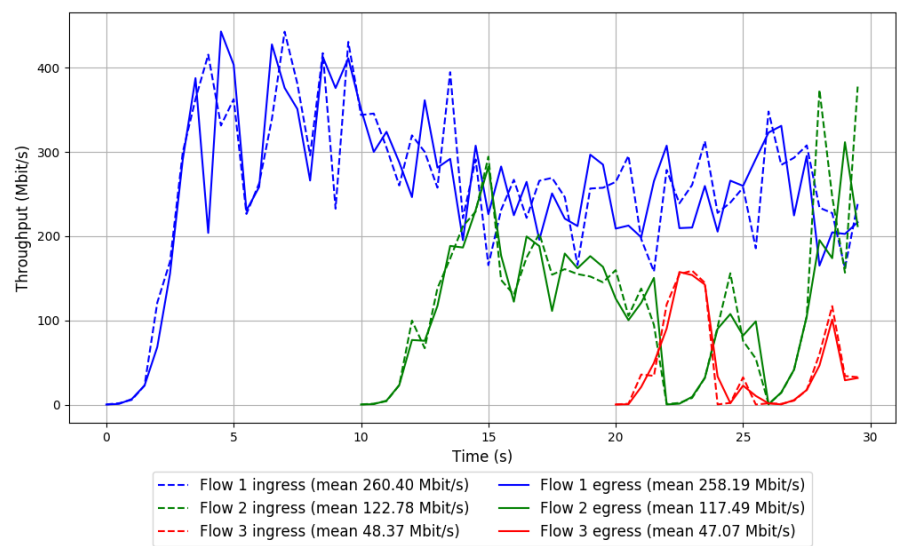
-- Flow 3:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 162.820 ms

Loss rate: 3.75%

Run 10: Report of Verus — Data Link

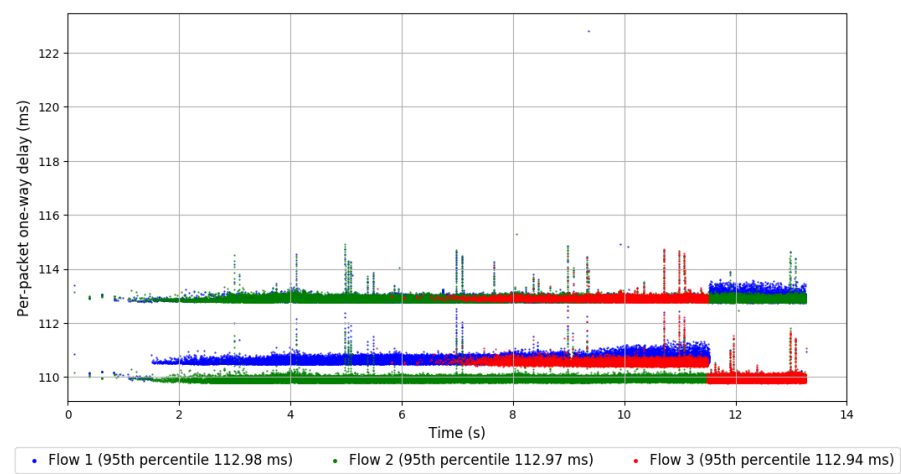
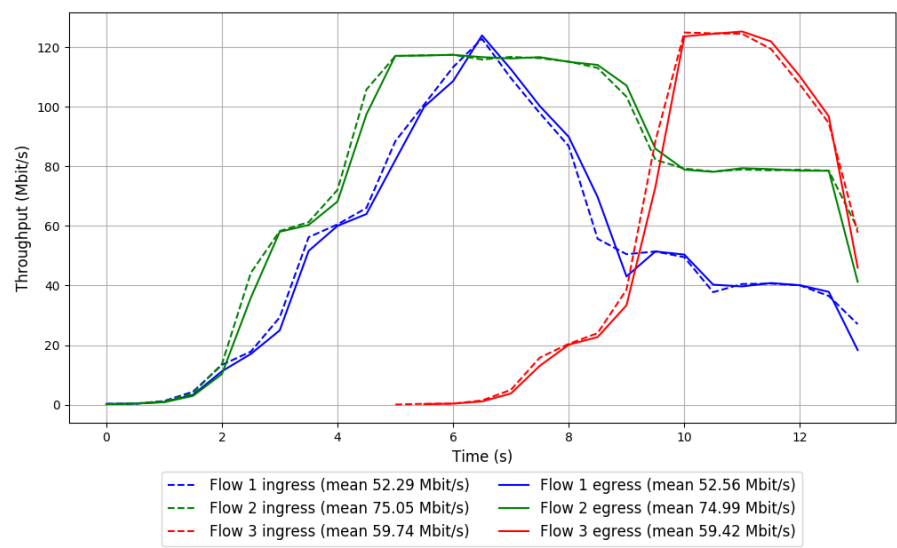


Run 1: Statistics of Copa

Start at: 2017-11-30 20:12:36

End at: 2017-11-30 20:13:06

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 20:25:42

End at: 2017-11-30 20:26:12

Below is generated by plot.py at 2017-12-01 01:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.21 Mbit/s

95th percentile per-packet one-way delay: 112.800 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 105.28 Mbit/s

95th percentile per-packet one-way delay: 112.392 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 112.856 ms

Loss rate: 1.23%

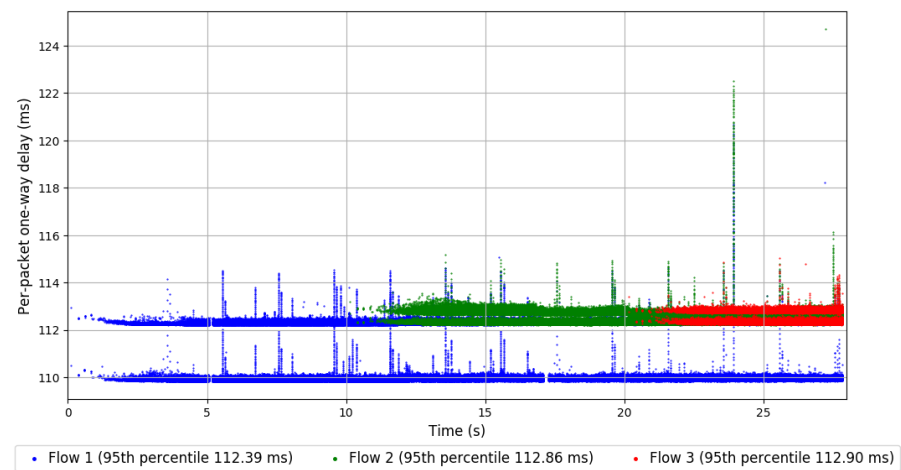
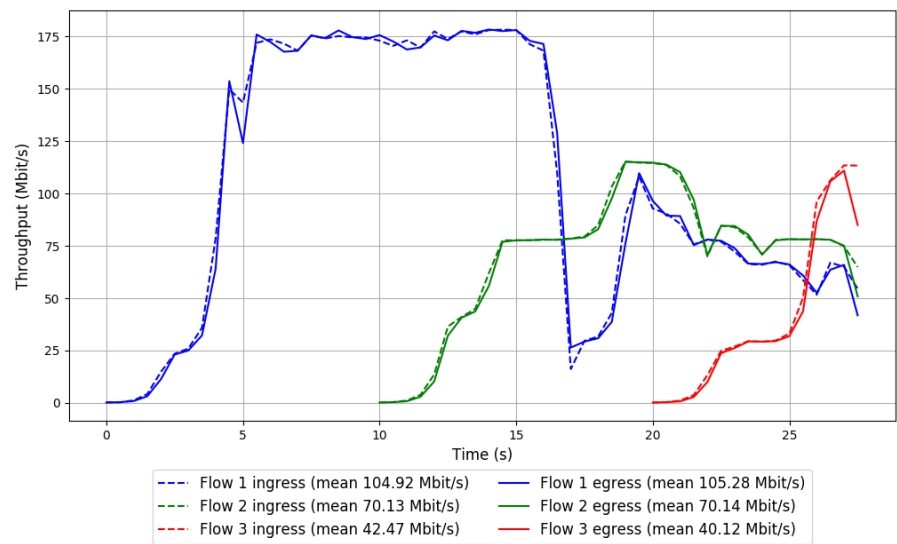
-- Flow 3:

Average throughput: 40.12 Mbit/s

95th percentile per-packet one-way delay: 112.903 ms

Loss rate: 8.22%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 20:38:55

End at: 2017-11-30 20:39:25

Below is generated by plot.py at 2017-12-01 01:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.51 Mbit/s

95th percentile per-packet one-way delay: 112.881 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 72.48 Mbit/s

95th percentile per-packet one-way delay: 112.914 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 112.481 ms

Loss rate: 1.41%

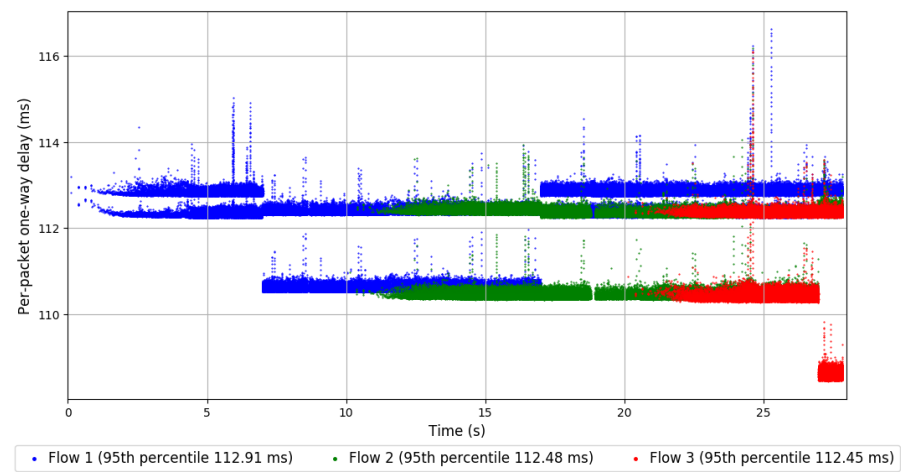
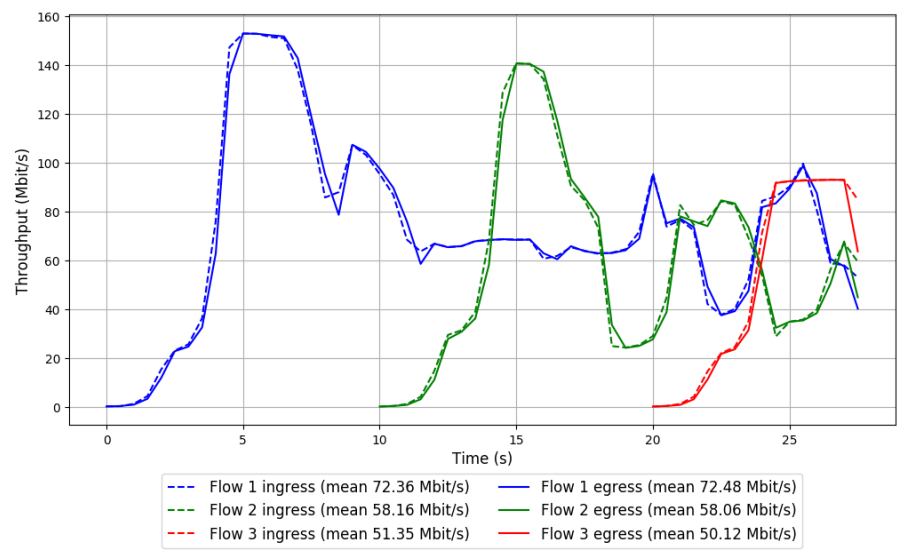
-- Flow 3:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 112.446 ms

Loss rate: 5.14%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 20:52:17

End at: 2017-11-30 20:52:47

Below is generated by plot.py at 2017-12-01 01:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.59 Mbit/s

95th percentile per-packet one-way delay: 112.621 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 112.714 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 64.48 Mbit/s

95th percentile per-packet one-way delay: 112.526 ms

Loss rate: 1.16%

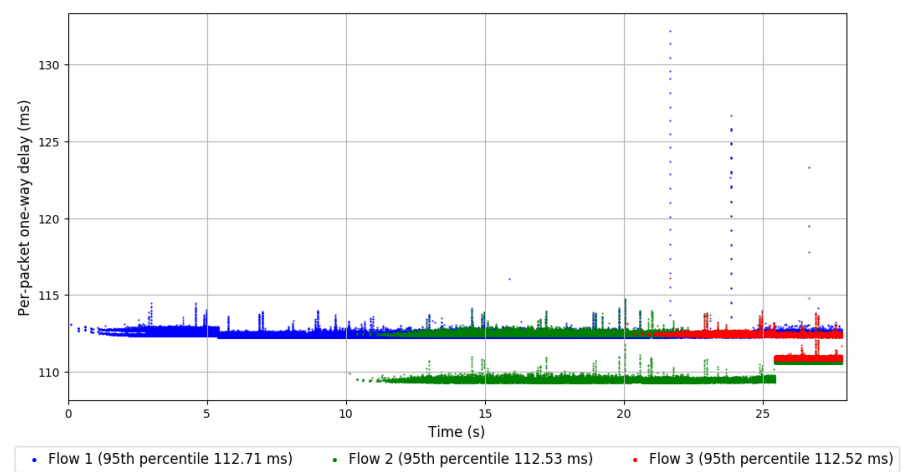
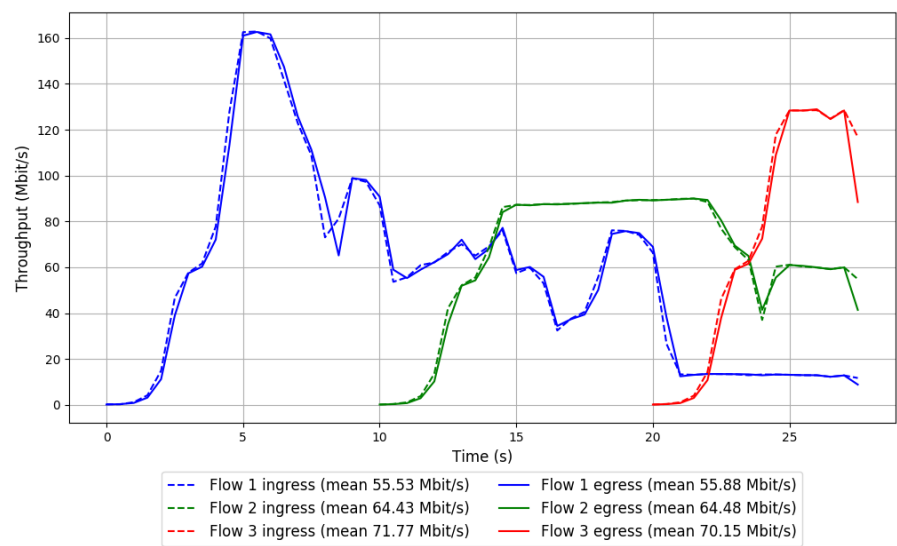
-- Flow 3:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 112.518 ms

Loss rate: 5.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 21:05:38

End at: 2017-11-30 21:06:08

Below is generated by plot.py at 2017-12-01 01:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.90 Mbit/s

95th percentile per-packet one-way delay: 112.964 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 72.63 Mbit/s

95th percentile per-packet one-way delay: 112.543 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 113.033 ms

Loss rate: 1.29%

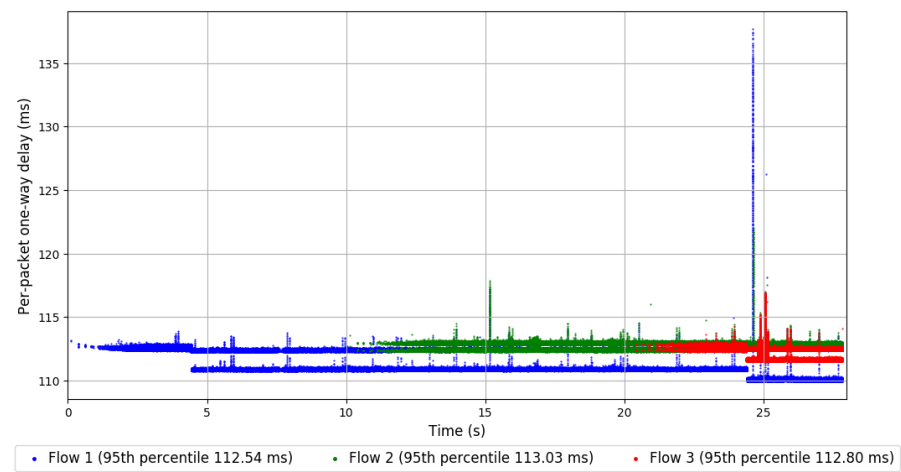
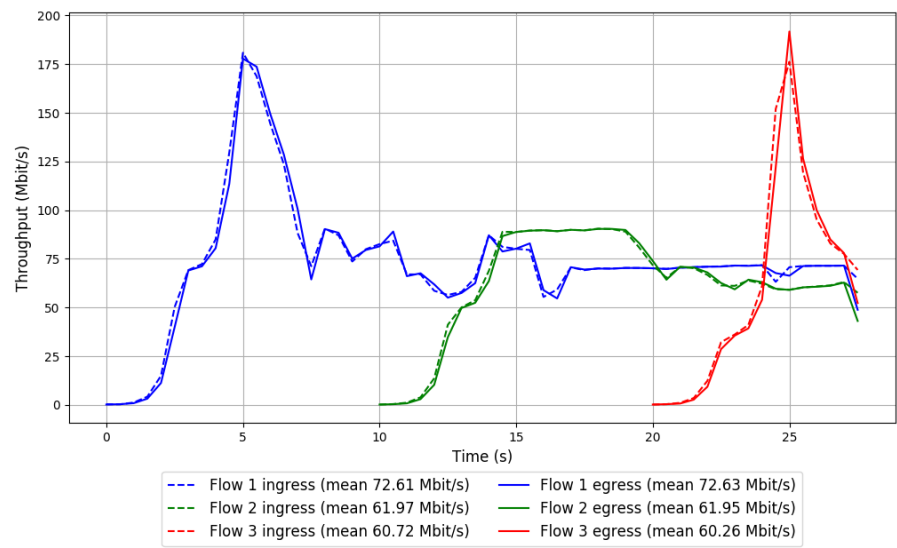
-- Flow 3:

Average throughput: 60.26 Mbit/s

95th percentile per-packet one-way delay: 112.801 ms

Loss rate: 3.58%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 21:19:14

End at: 2017-11-30 21:19:44

Below is generated by plot.py at 2017-12-01 01:14:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.35 Mbit/s

95th percentile per-packet one-way delay: 113.019 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 75.82 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 113.134 ms

Loss rate: 1.44%

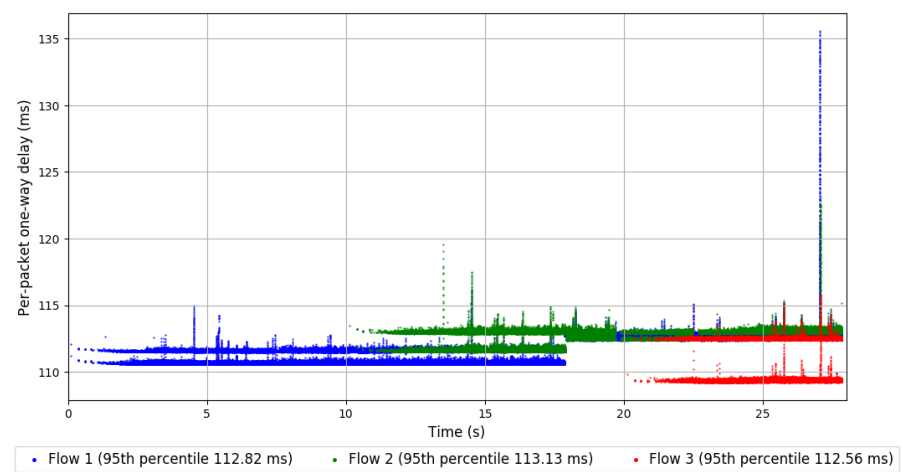
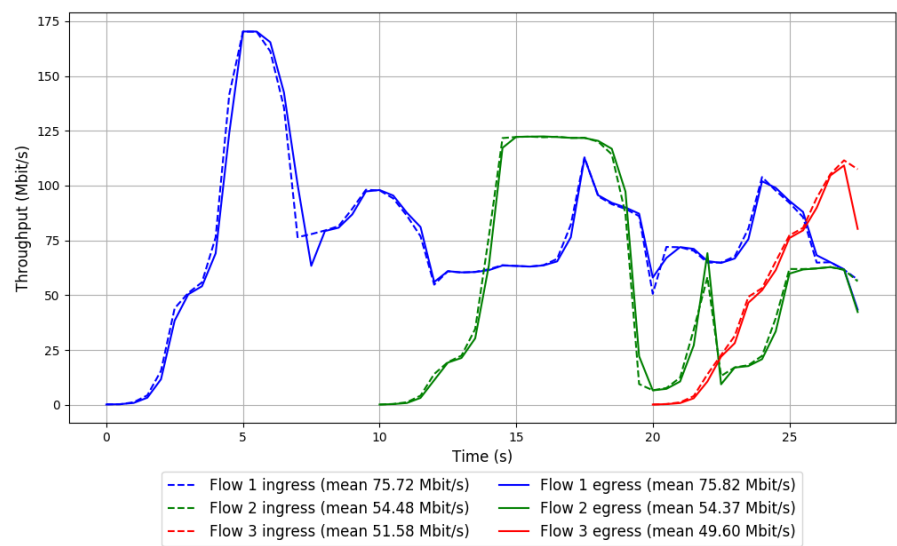
-- Flow 3:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 112.560 ms

Loss rate: 6.53%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-30 21:32:48

End at: 2017-11-30 21:33:18

Below is generated by plot.py at 2017-12-01 01:15:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.62 Mbit/s

95th percentile per-packet one-way delay: 112.722 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 111.601 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 63.86 Mbit/s

95th percentile per-packet one-way delay: 112.768 ms

Loss rate: 0.98%

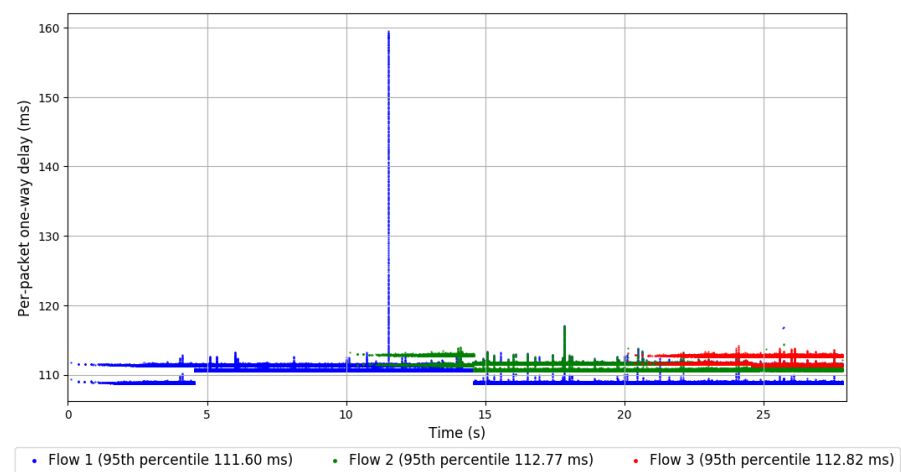
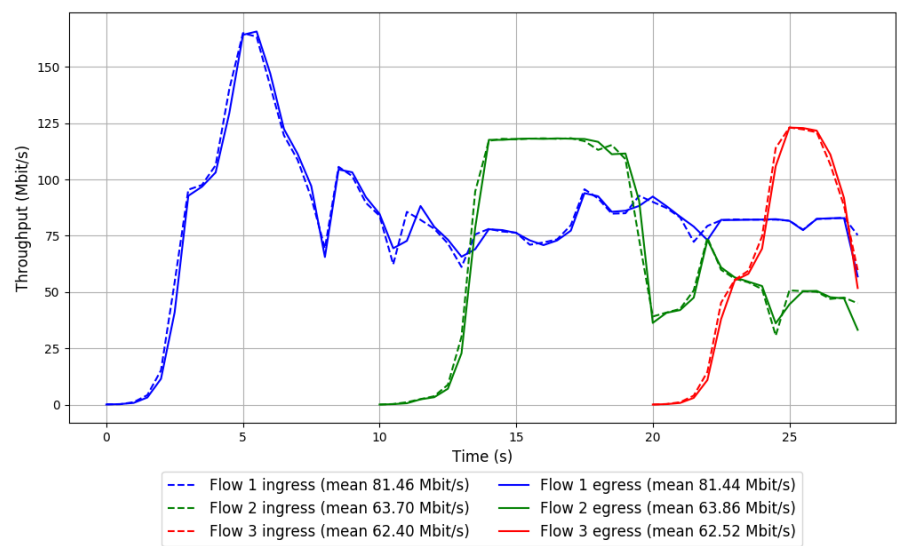
-- Flow 3:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 112.818 ms

Loss rate: 2.64%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 21:46:24

End at: 2017-11-30 21:46:54

Below is generated by plot.py at 2017-12-01 01:16:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.18 Mbit/s

95th percentile per-packet one-way delay: 112.775 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 111.476 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 112.834 ms

Loss rate: 1.12%

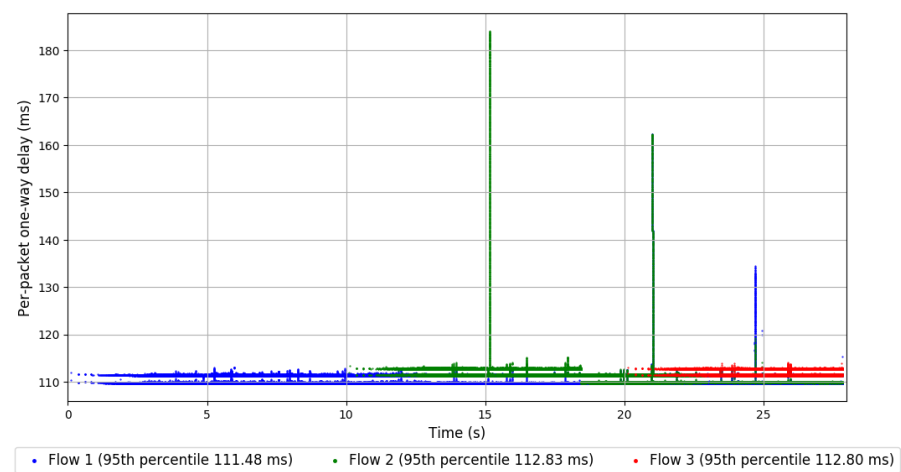
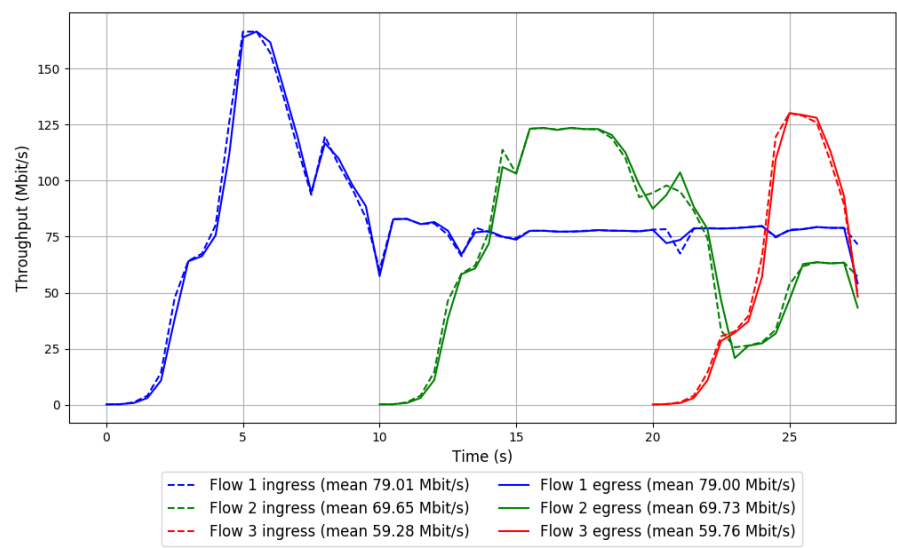
-- Flow 3:

Average throughput: 59.76 Mbit/s

95th percentile per-packet one-way delay: 112.798 ms

Loss rate: 2.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-30 21:59:53

End at: 2017-11-30 22:00:23

Below is generated by plot.py at 2017-12-01 01:16:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.03 Mbit/s

95th percentile per-packet one-way delay: 112.680 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 69.25 Mbit/s

95th percentile per-packet one-way delay: 111.584 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 64.73 Mbit/s

95th percentile per-packet one-way delay: 112.758 ms

Loss rate: 1.28%

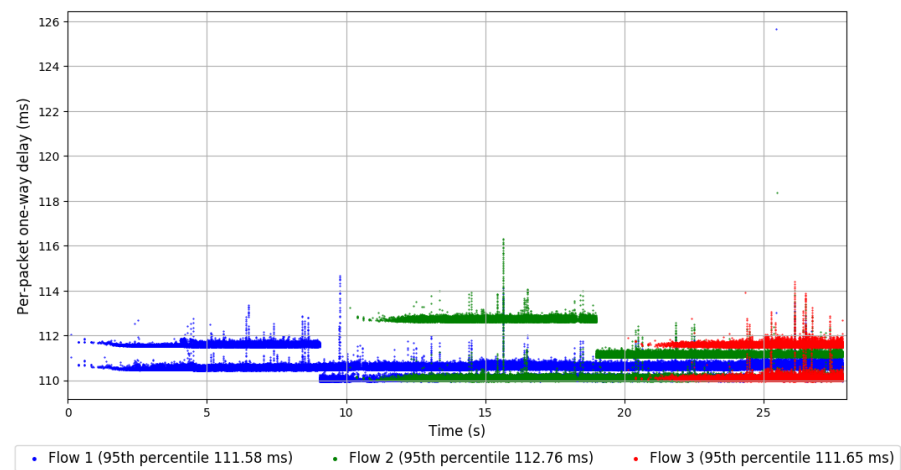
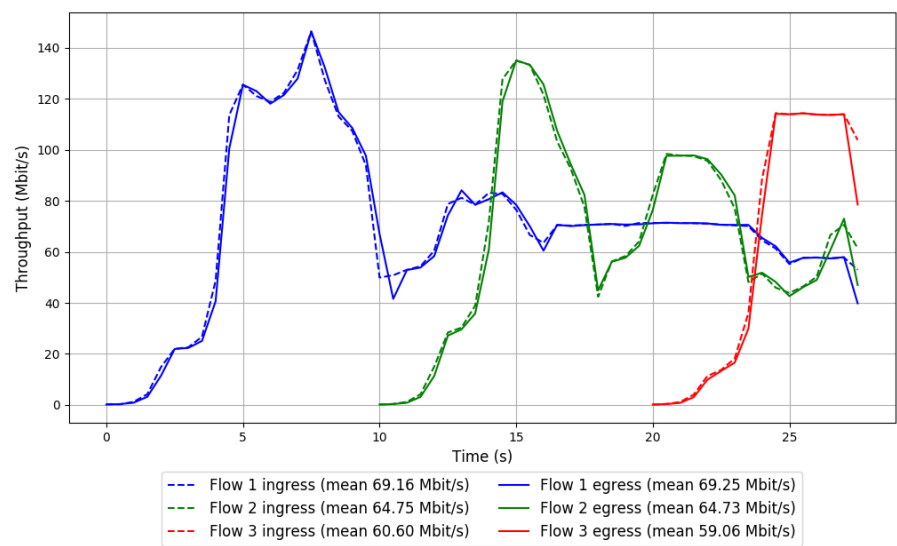
-- Flow 3:

Average throughput: 59.06 Mbit/s

95th percentile per-packet one-way delay: 111.654 ms

Loss rate: 5.25%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 22:13:38

End at: 2017-11-30 22:14:08

Below is generated by plot.py at 2017-12-01 01:16:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.84 Mbit/s

95th percentile per-packet one-way delay: 113.006 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 99.34 Mbit/s

95th percentile per-packet one-way delay: 113.025 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 111.736 ms

Loss rate: 0.78%

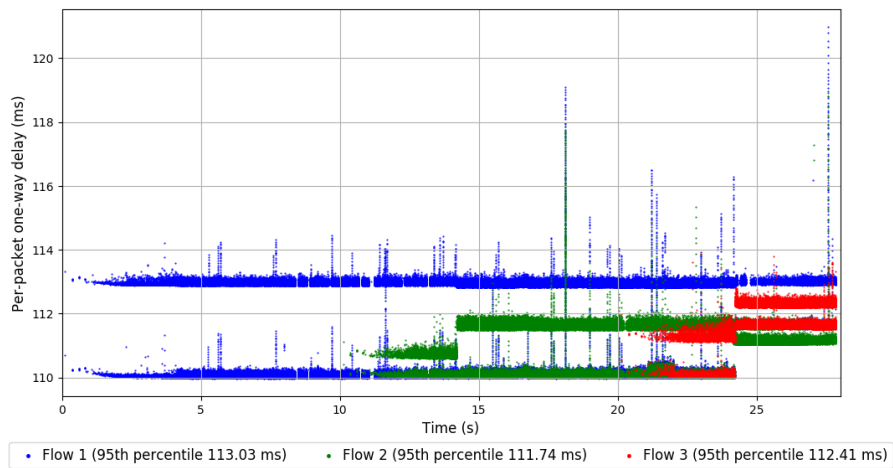
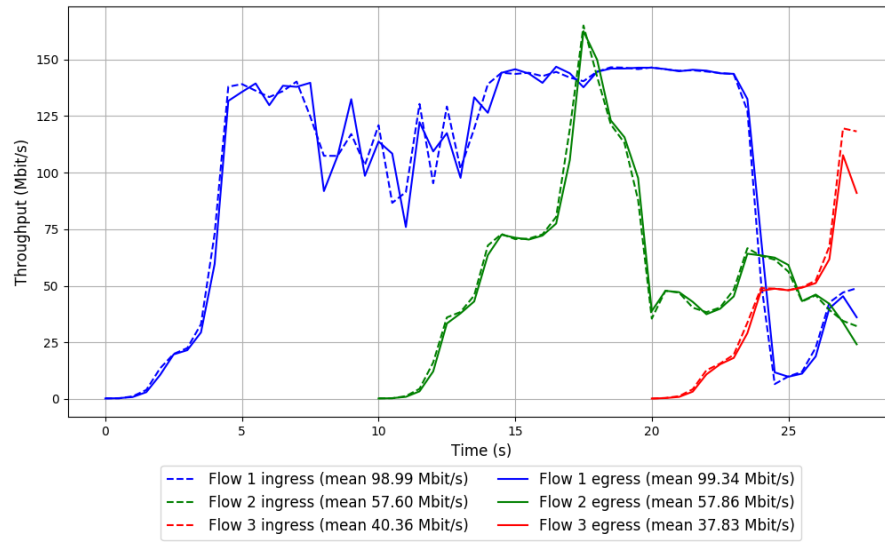
-- Flow 3:

Average throughput: 37.83 Mbit/s

95th percentile per-packet one-way delay: 112.413 ms

Loss rate: 8.90%

Run 10: Report of Copa — Data Link

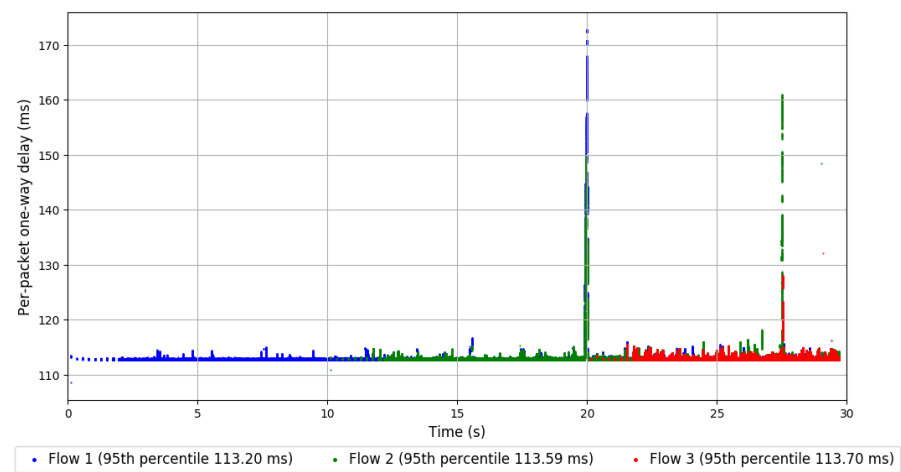
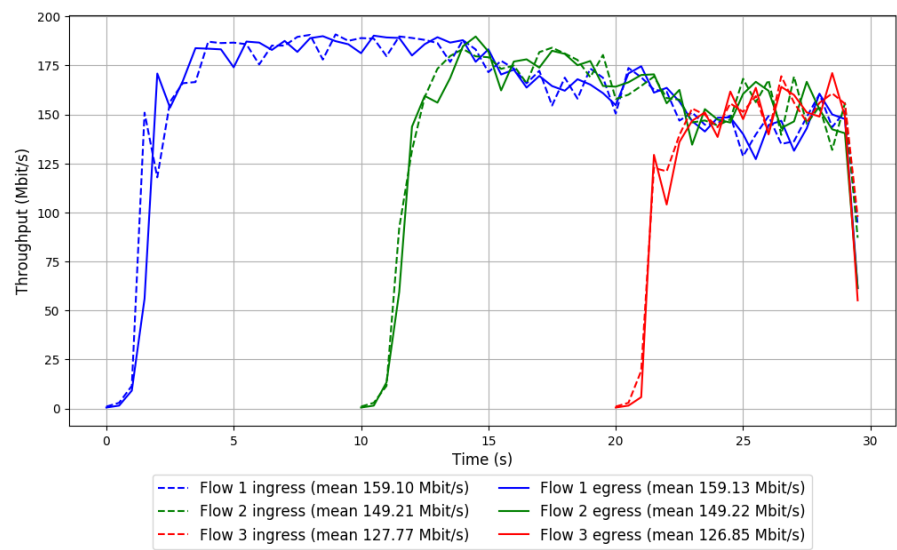


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 20:08:42
End at: 2017-11-30 20:09:12

# Below is generated by plot.py at 2017-12-01 01:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.85 Mbit/s
95th percentile per-packet one-way delay: 113.424 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 159.13 Mbit/s
95th percentile per-packet one-way delay: 113.204 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 149.22 Mbit/s
95th percentile per-packet one-way delay: 113.594 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 126.85 Mbit/s
95th percentile per-packet one-way delay: 113.697 ms
Loss rate: 3.01%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 20:21:47

End at: 2017-11-30 20:22:17

Below is generated by plot.py at 2017-12-01 01:18:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.06 Mbit/s

95th percentile per-packet one-way delay: 112.988 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 158.90 Mbit/s

95th percentile per-packet one-way delay: 112.909 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 145.32 Mbit/s

95th percentile per-packet one-way delay: 113.053 ms

Loss rate: 1.07%

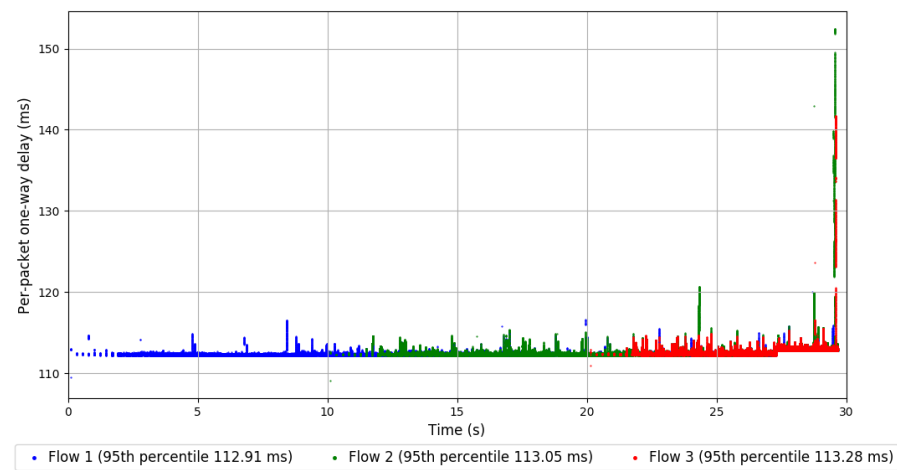
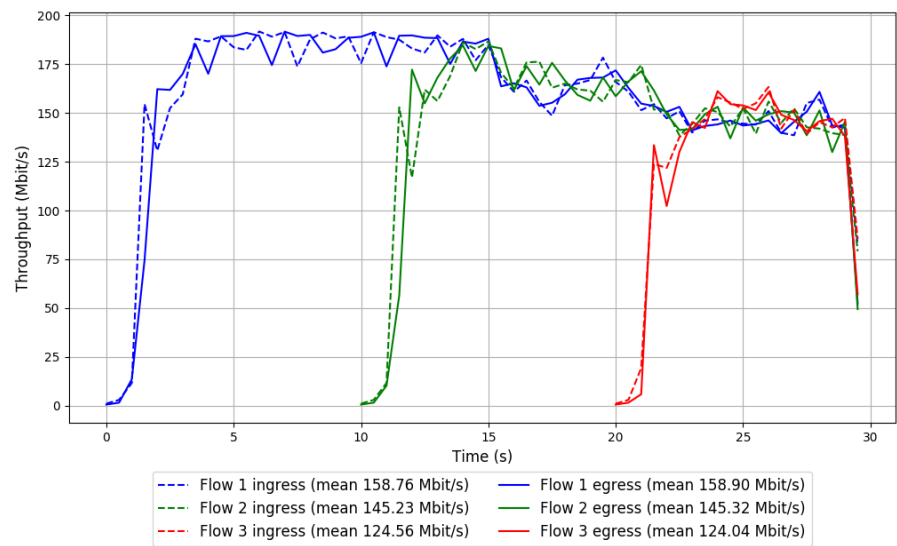
-- Flow 3:

Average throughput: 124.04 Mbit/s

95th percentile per-packet one-way delay: 113.279 ms

Loss rate: 2.70%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 20:34:59

End at: 2017-11-30 20:35:29

Below is generated by plot.py at 2017-12-01 01:18:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.78 Mbit/s

95th percentile per-packet one-way delay: 113.953 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 166.56 Mbit/s

95th percentile per-packet one-way delay: 113.198 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 155.49 Mbit/s

95th percentile per-packet one-way delay: 115.629 ms

Loss rate: 1.10%

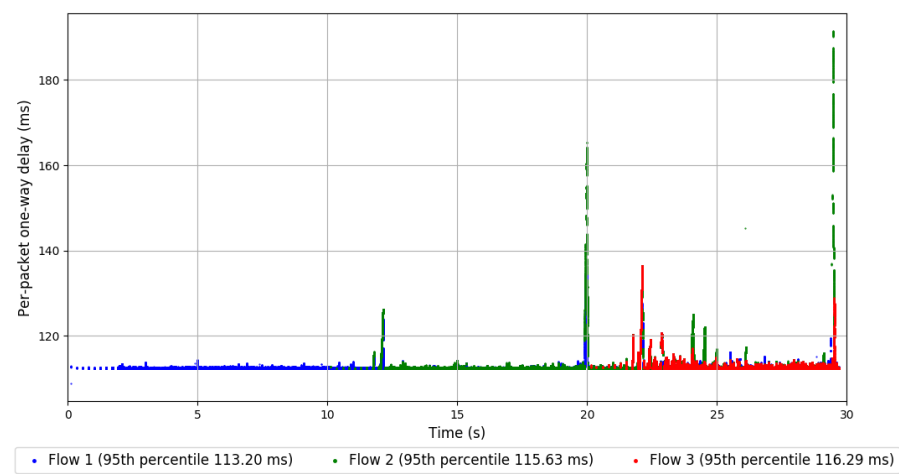
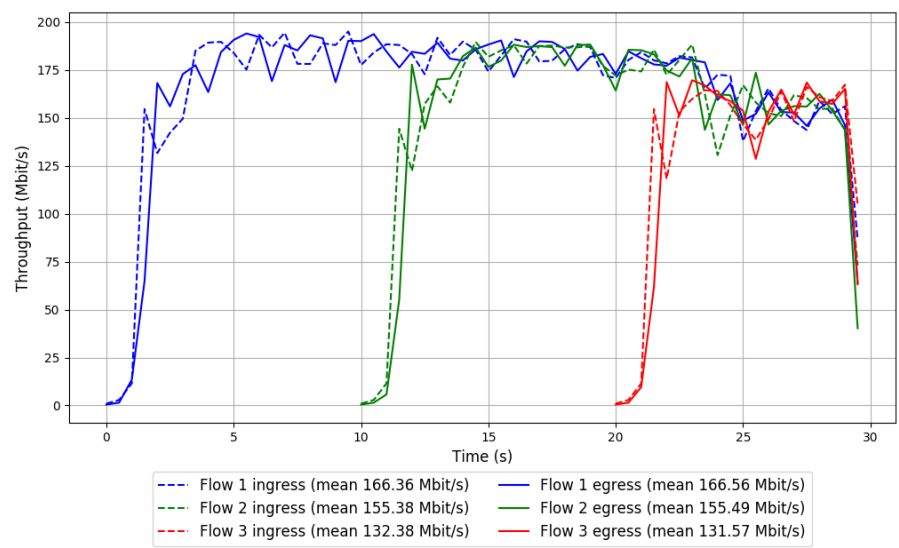
-- Flow 3:

Average throughput: 131.57 Mbit/s

95th percentile per-packet one-way delay: 116.290 ms

Loss rate: 2.93%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 20:48:10

End at: 2017-11-30 20:48:40

Below is generated by plot.py at 2017-12-01 01:18:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.32 Mbit/s

95th percentile per-packet one-way delay: 112.950 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 160.54 Mbit/s

95th percentile per-packet one-way delay: 112.708 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 147.78 Mbit/s

95th percentile per-packet one-way delay: 113.084 ms

Loss rate: 1.10%

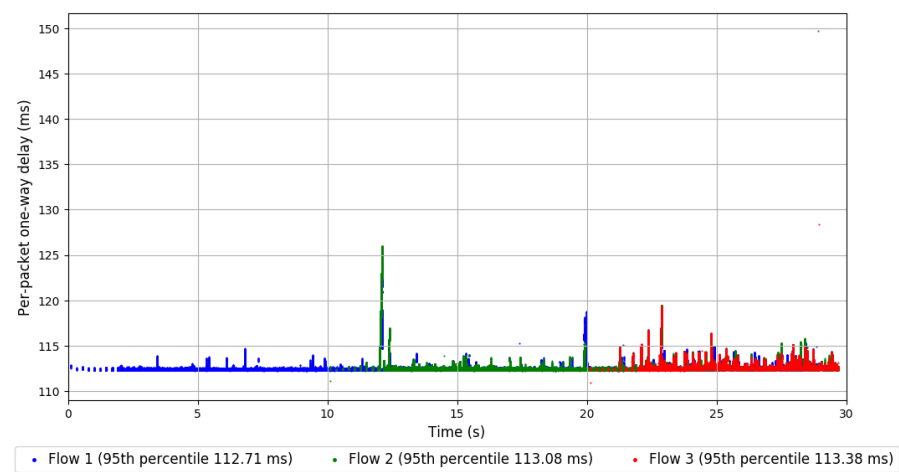
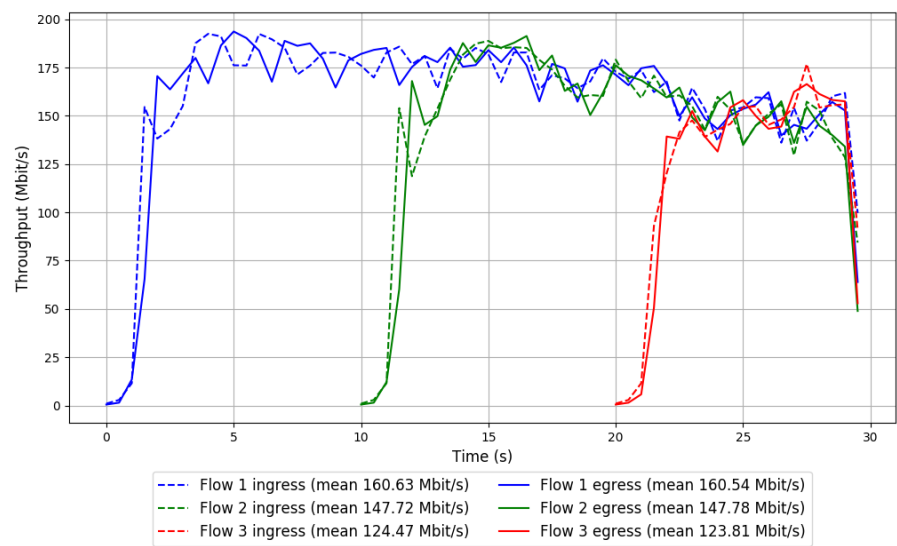
-- Flow 3:

Average throughput: 123.81 Mbit/s

95th percentile per-packet one-way delay: 113.381 ms

Loss rate: 2.82%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-30 21:01:30

End at: 2017-11-30 21:02:00

Below is generated by plot.py at 2017-12-01 01:20:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.35 Mbit/s

95th percentile per-packet one-way delay: 112.965 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 156.67 Mbit/s

95th percentile per-packet one-way delay: 112.654 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 156.43 Mbit/s

95th percentile per-packet one-way delay: 113.132 ms

Loss rate: 1.02%

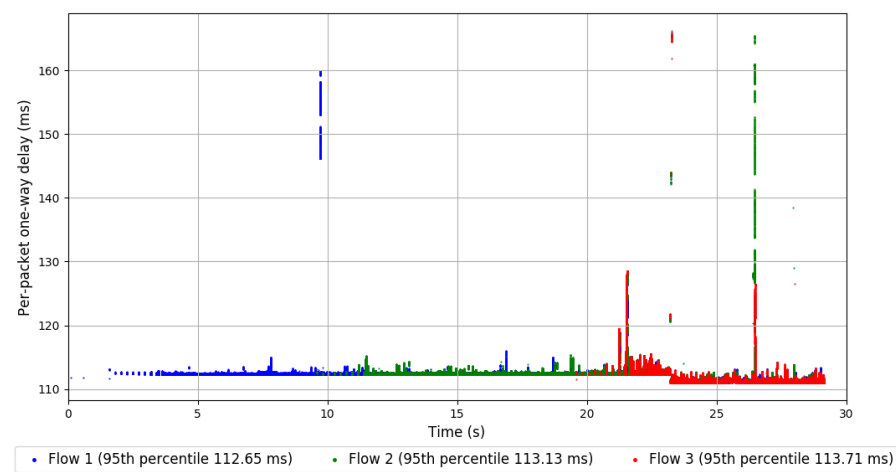
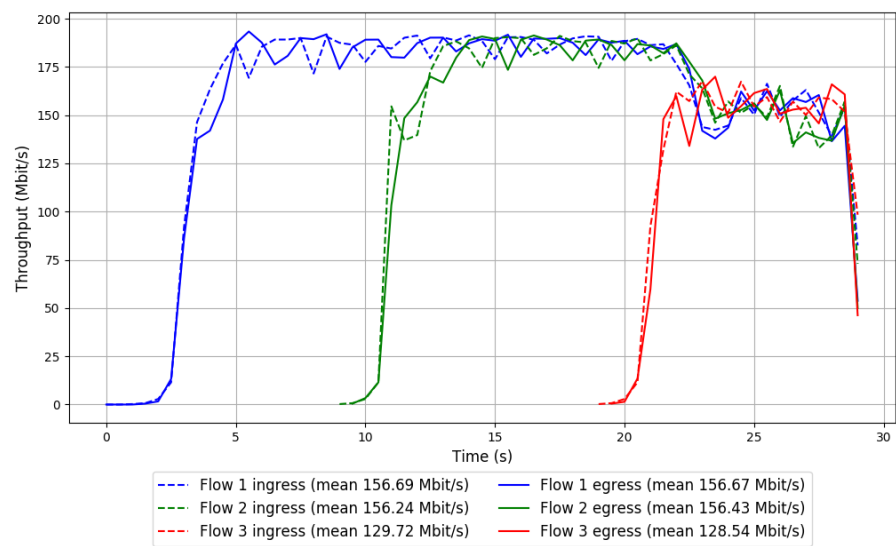
-- Flow 3:

Average throughput: 128.54 Mbit/s

95th percentile per-packet one-way delay: 113.713 ms

Loss rate: 3.18%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 21:14:57

End at: 2017-11-30 21:15:27

Below is generated by plot.py at 2017-12-01 01:20:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.42 Mbit/s

95th percentile per-packet one-way delay: 113.056 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 163.80 Mbit/s

95th percentile per-packet one-way delay: 112.757 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 151.94 Mbit/s

95th percentile per-packet one-way delay: 113.319 ms

Loss rate: 1.24%

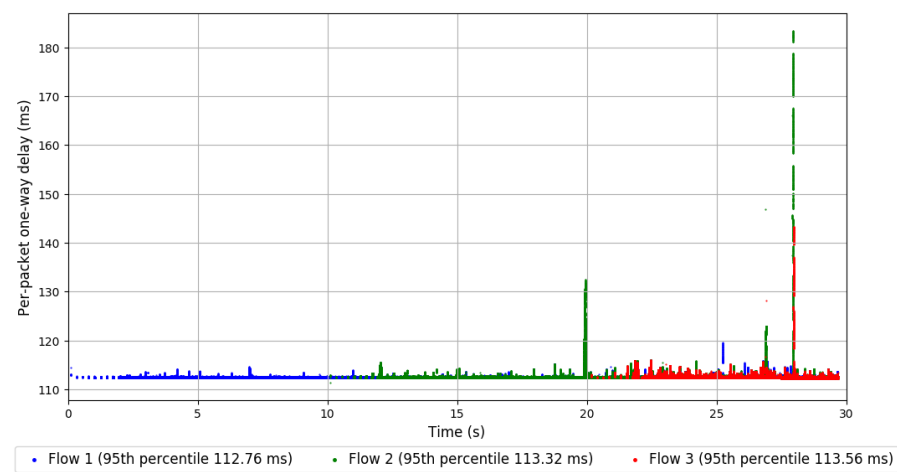
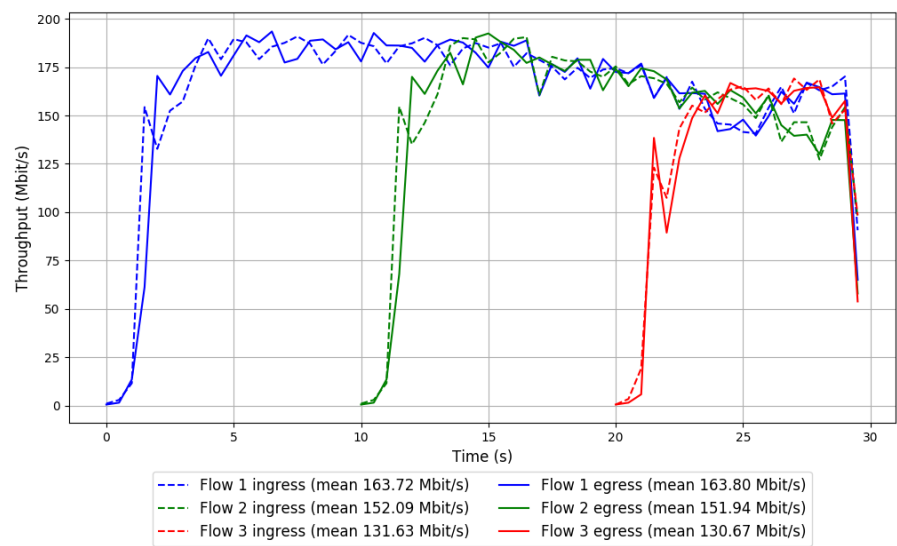
-- Flow 3:

Average throughput: 130.67 Mbit/s

95th percentile per-packet one-way delay: 113.562 ms

Loss rate: 3.02%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 21:28:31

End at: 2017-11-30 21:29:01

Below is generated by plot.py at 2017-12-01 01:20:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.65 Mbit/s

95th percentile per-packet one-way delay: 112.673 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 160.25 Mbit/s

95th percentile per-packet one-way delay: 112.217 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 157.61 Mbit/s

95th percentile per-packet one-way delay: 112.908 ms

Loss rate: 1.12%

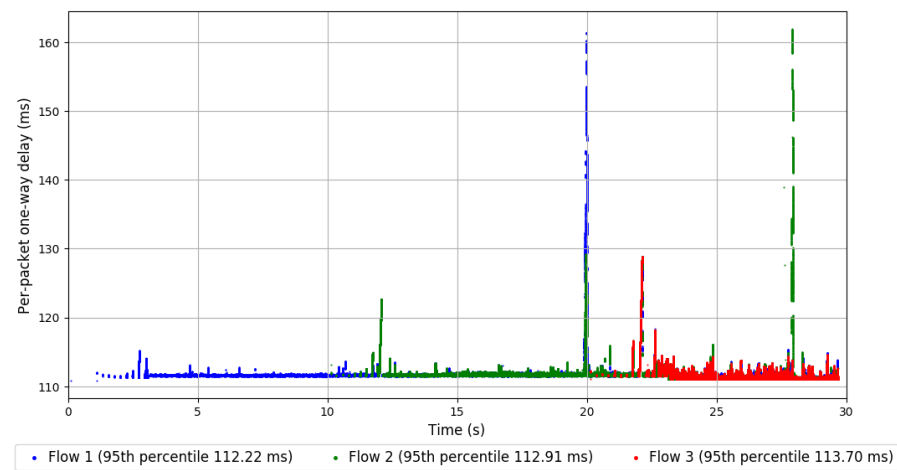
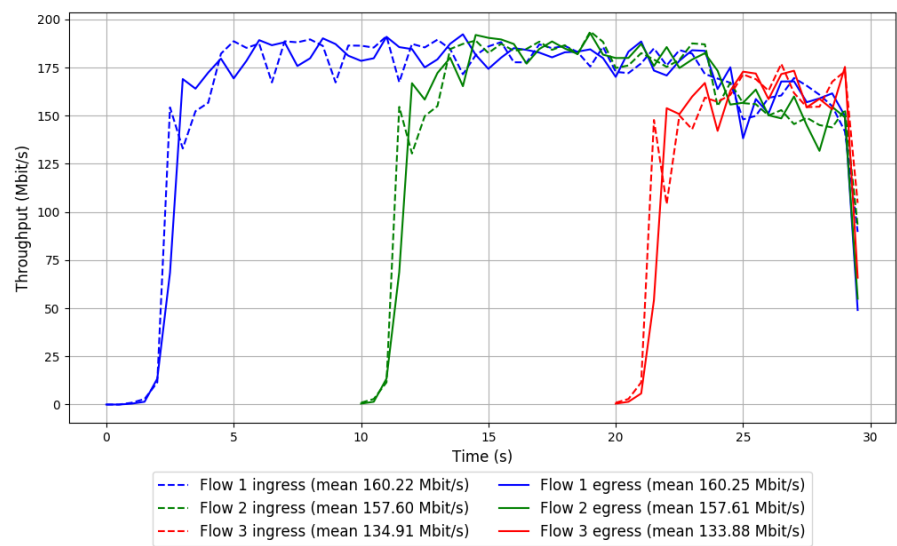
-- Flow 3:

Average throughput: 133.88 Mbit/s

95th percentile per-packet one-way delay: 113.702 ms

Loss rate: 3.03%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 21:42:08

End at: 2017-11-30 21:42:38

Below is generated by plot.py at 2017-12-01 01:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.43 Mbit/s

95th percentile per-packet one-way delay: 111.854 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 160.32 Mbit/s

95th percentile per-packet one-way delay: 111.720 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 150.44 Mbit/s

95th percentile per-packet one-way delay: 111.938 ms

Loss rate: 1.10%

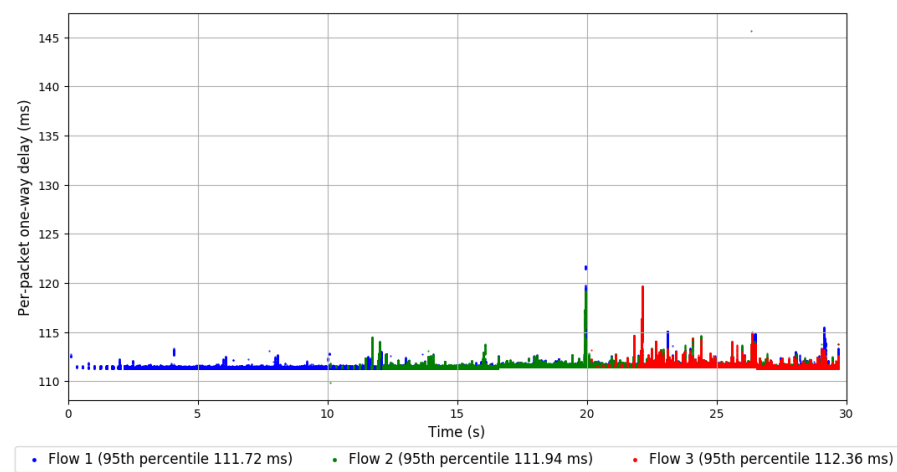
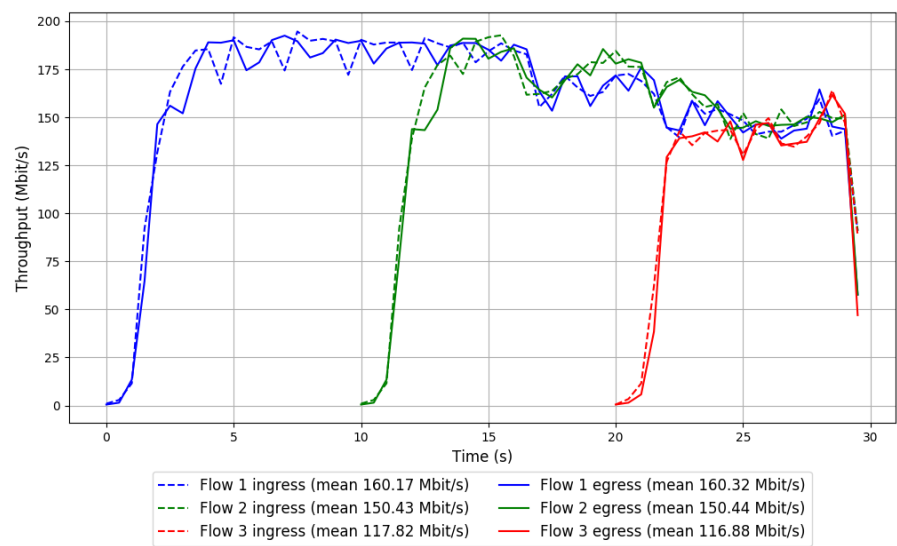
-- Flow 3:

Average throughput: 116.88 Mbit/s

95th percentile per-packet one-way delay: 112.356 ms

Loss rate: 3.07%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 21:55:40

End at: 2017-11-30 21:56:10

Below is generated by plot.py at 2017-12-01 01:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.77 Mbit/s

95th percentile per-packet one-way delay: 111.947 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 161.34 Mbit/s

95th percentile per-packet one-way delay: 111.813 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 146.21 Mbit/s

95th percentile per-packet one-way delay: 112.040 ms

Loss rate: 1.25%

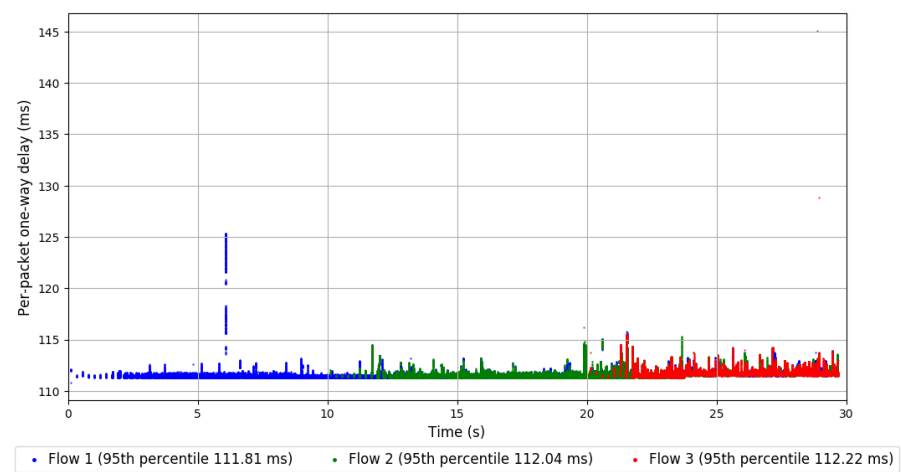
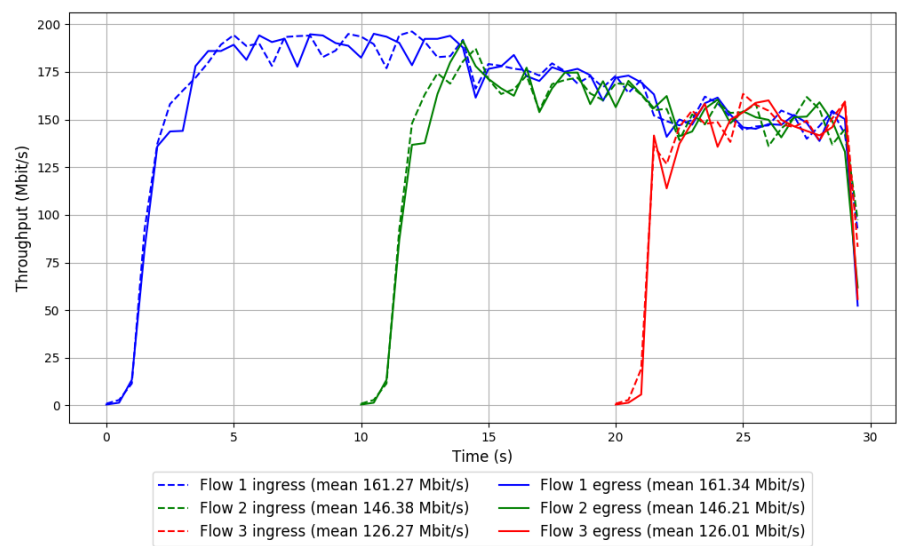
-- Flow 3:

Average throughput: 126.01 Mbit/s

95th percentile per-packet one-way delay: 112.222 ms

Loss rate: 2.56%

Run 9: Report of Indigo — Data Link

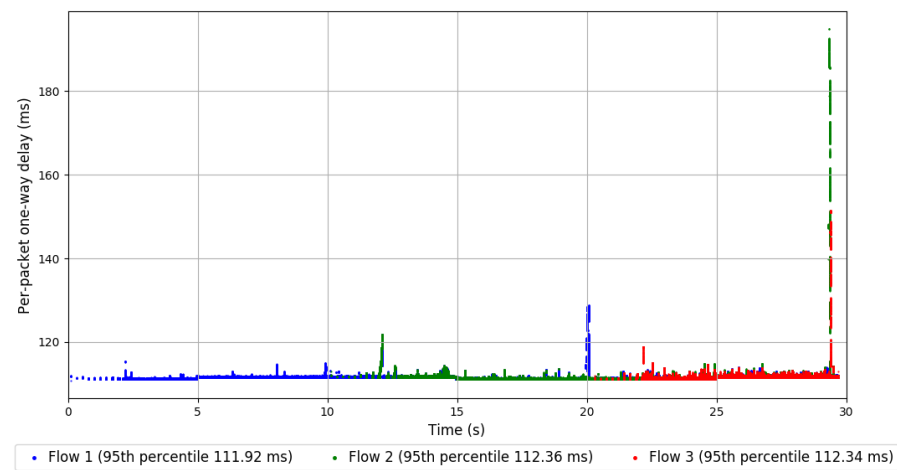
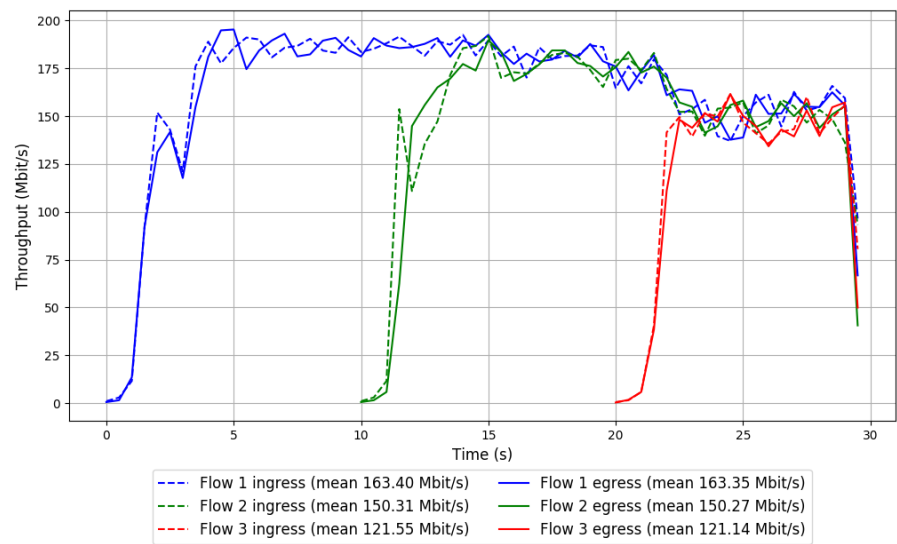


```
Run 10: Statistics of Indigo

Start at: 2017-11-30 22:09:09
End at: 2017-11-30 22:09:39

# Below is generated by plot.py at 2017-12-01 01:22:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.15 Mbit/s
95th percentile per-packet one-way delay: 112.118 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 163.35 Mbit/s
95th percentile per-packet one-way delay: 111.919 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 150.27 Mbit/s
95th percentile per-packet one-way delay: 112.365 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 121.14 Mbit/s
95th percentile per-packet one-way delay: 112.336 ms
Loss rate: 2.61%
```

Run 10: Report of Indigo — Data Link

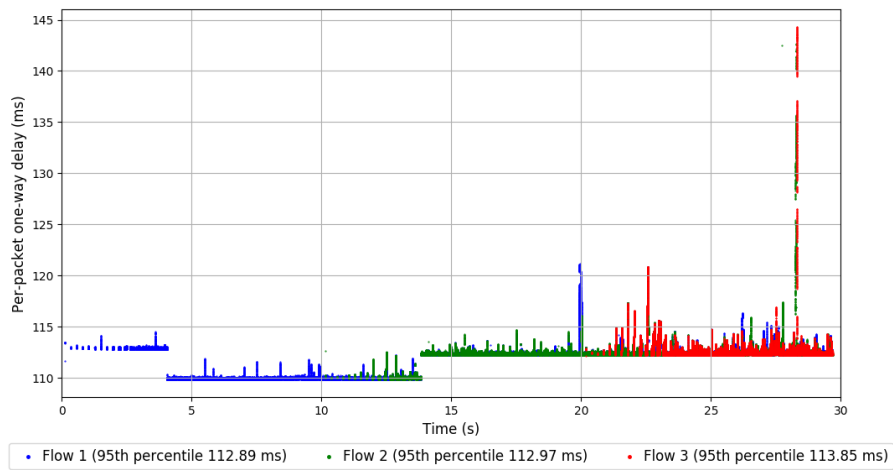
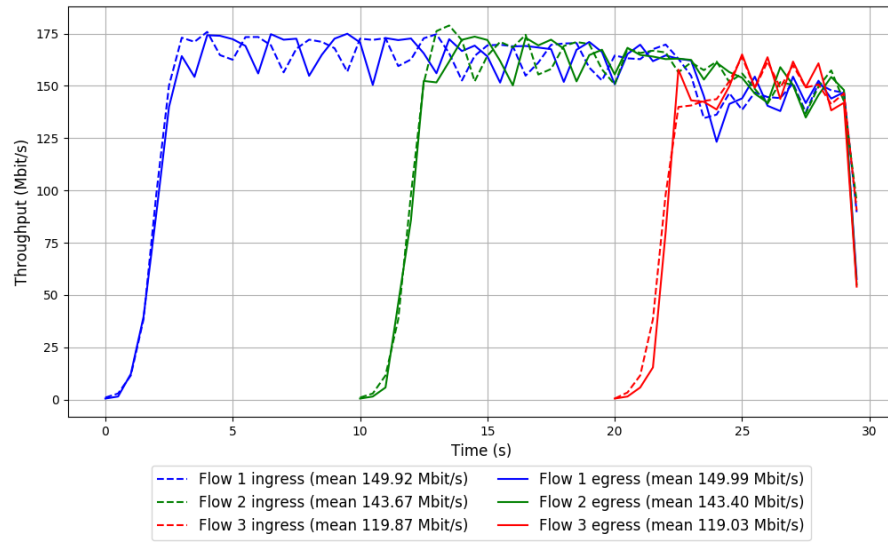


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 20:16:30
End at: 2017-11-30 20:17:00

# Below is generated by plot.py at 2017-12-01 01:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.97 Mbit/s
95th percentile per-packet one-way delay: 112.997 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 149.99 Mbit/s
95th percentile per-packet one-way delay: 112.886 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 143.40 Mbit/s
95th percentile per-packet one-way delay: 112.970 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 119.03 Mbit/s
95th percentile per-packet one-way delay: 113.847 ms
Loss rate: 3.00%
```

Run 1: Report of Indigo-calib — Data Link

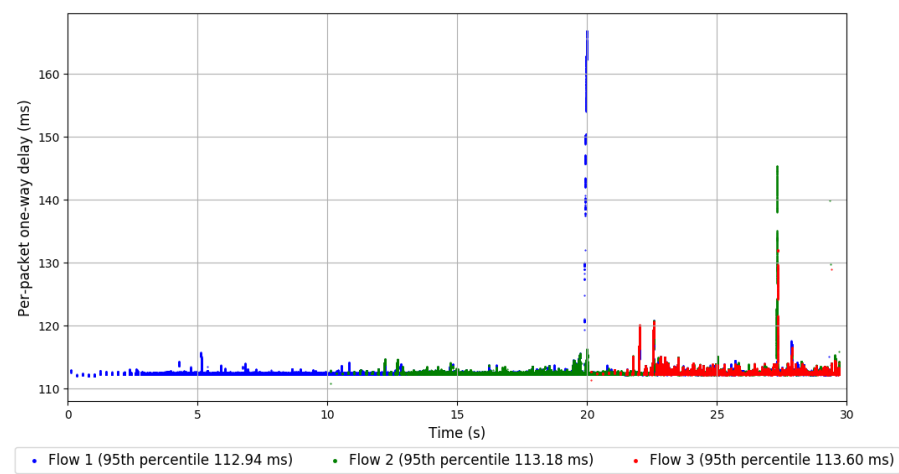
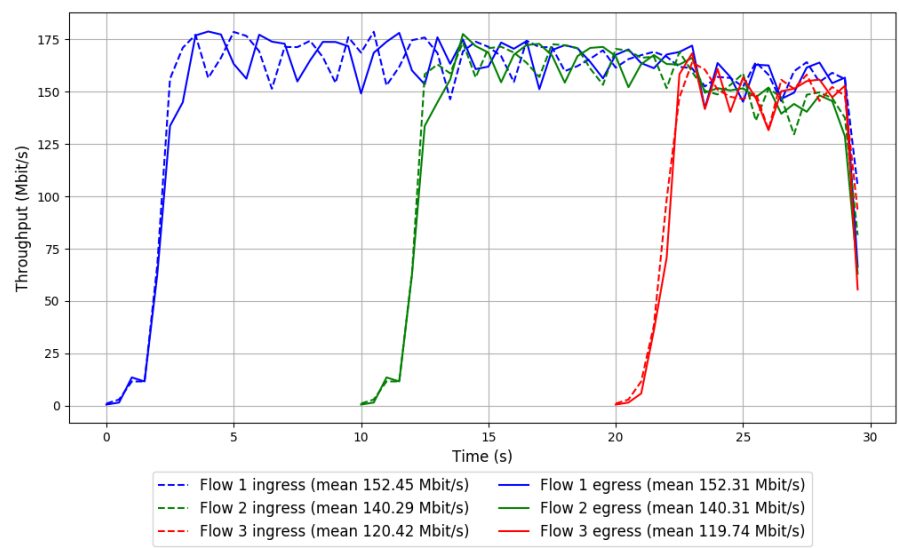


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 20:29:43
End at: 2017-11-30 20:30:13

# Below is generated by plot.py at 2017-12-01 01:23:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.82 Mbit/s
95th percentile per-packet one-way delay: 113.128 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 152.31 Mbit/s
95th percentile per-packet one-way delay: 112.945 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 140.31 Mbit/s
95th percentile per-packet one-way delay: 113.184 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 119.74 Mbit/s
95th percentile per-packet one-way delay: 113.596 ms
Loss rate: 2.83%
```

Run 2: Report of Indigo-calib — Data Link

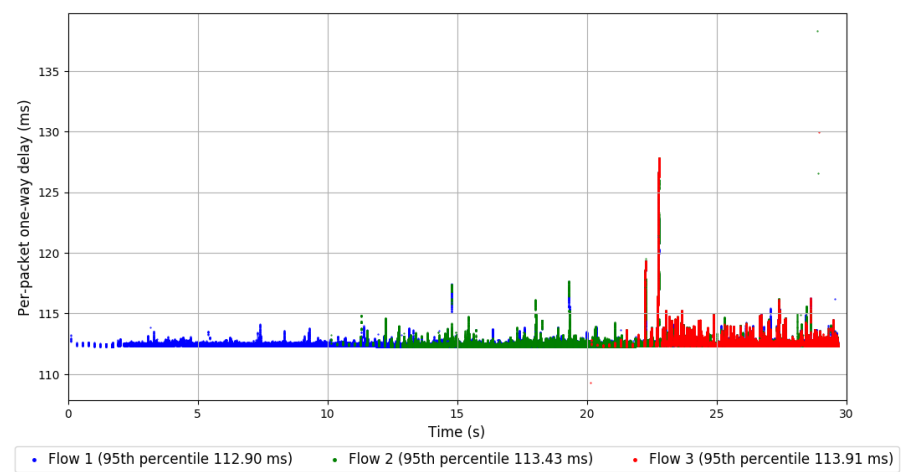
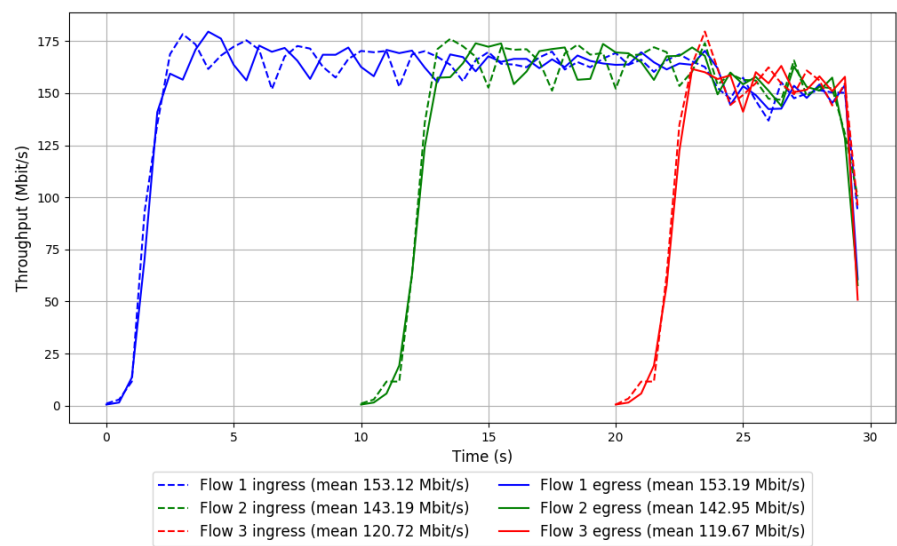


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 20:42:52
End at: 2017-11-30 20:43:22

# Below is generated by plot.py at 2017-12-01 01:24:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.26 Mbit/s
95th percentile per-packet one-way delay: 113.272 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 153.19 Mbit/s
95th percentile per-packet one-way delay: 112.901 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 142.95 Mbit/s
95th percentile per-packet one-way delay: 113.430 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 119.67 Mbit/s
95th percentile per-packet one-way delay: 113.907 ms
Loss rate: 3.10%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 20:56:14

End at: 2017-11-30 20:56:44

Below is generated by plot.py at 2017-12-01 01:25:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.40 Mbit/s

95th percentile per-packet one-way delay: 113.006 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 152.84 Mbit/s

95th percentile per-packet one-way delay: 112.752 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 144.00 Mbit/s

95th percentile per-packet one-way delay: 113.020 ms

Loss rate: 1.26%

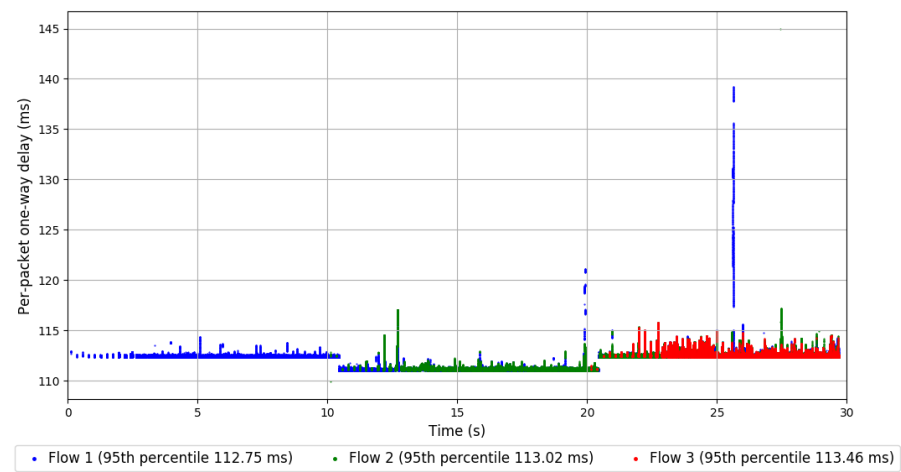
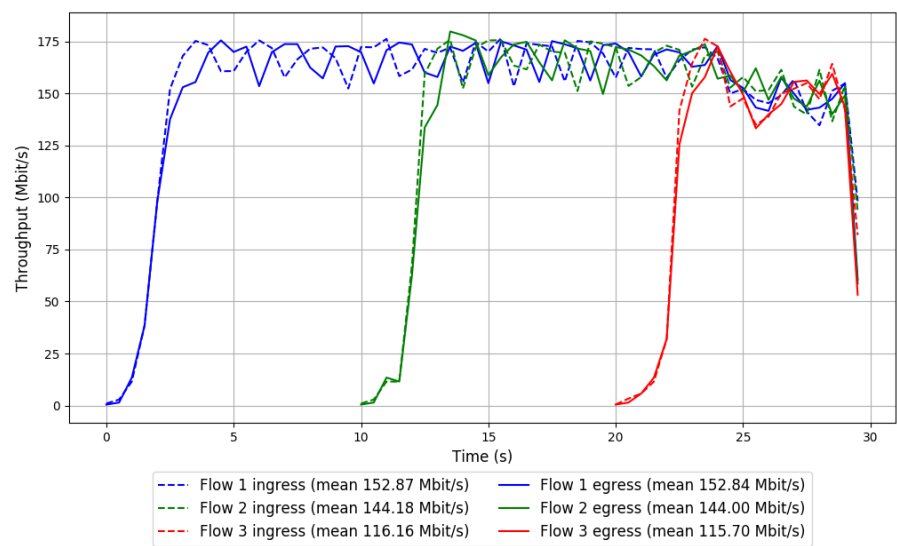
-- Flow 3:

Average throughput: 115.70 Mbit/s

95th percentile per-packet one-way delay: 113.456 ms

Loss rate: 2.72%

Run 4: Report of Indigo-calib — Data Link

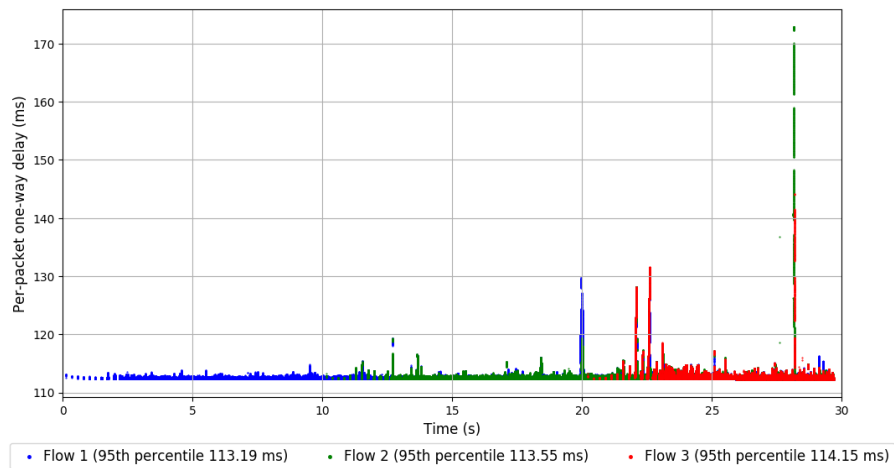
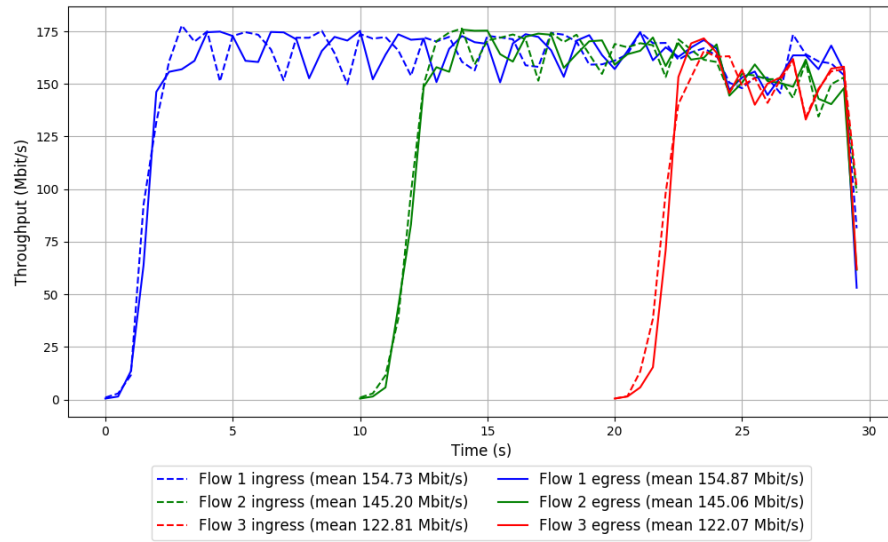


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 21:09:38
End at: 2017-11-30 21:10:08

# Below is generated by plot.py at 2017-12-01 01:25:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.92 Mbit/s
95th percentile per-packet one-way delay: 113.485 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 154.87 Mbit/s
95th percentile per-packet one-way delay: 113.189 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 145.06 Mbit/s
95th percentile per-packet one-way delay: 113.552 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 122.07 Mbit/s
95th percentile per-packet one-way delay: 114.153 ms
Loss rate: 2.95%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 21:23:13

End at: 2017-11-30 21:23:43

Below is generated by plot.py at 2017-12-01 01:25:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.40 Mbit/s

95th percentile per-packet one-way delay: 113.281 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 151.08 Mbit/s

95th percentile per-packet one-way delay: 112.920 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 144.75 Mbit/s

95th percentile per-packet one-way delay: 113.416 ms

Loss rate: 1.26%

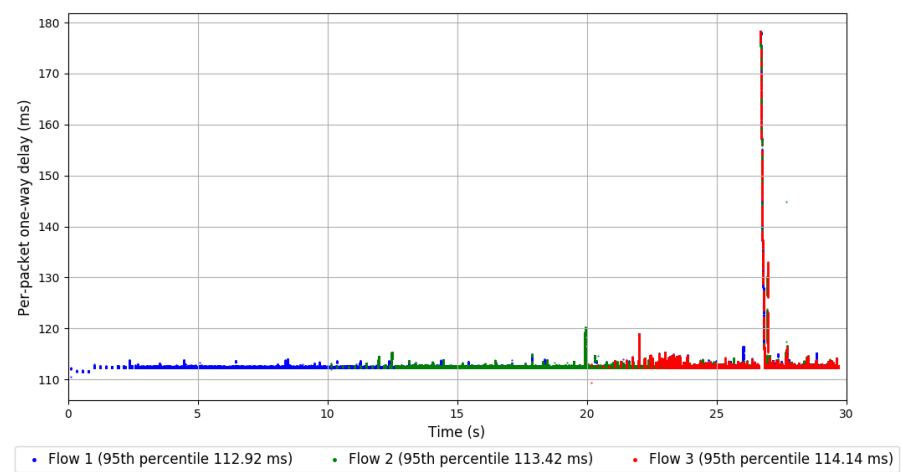
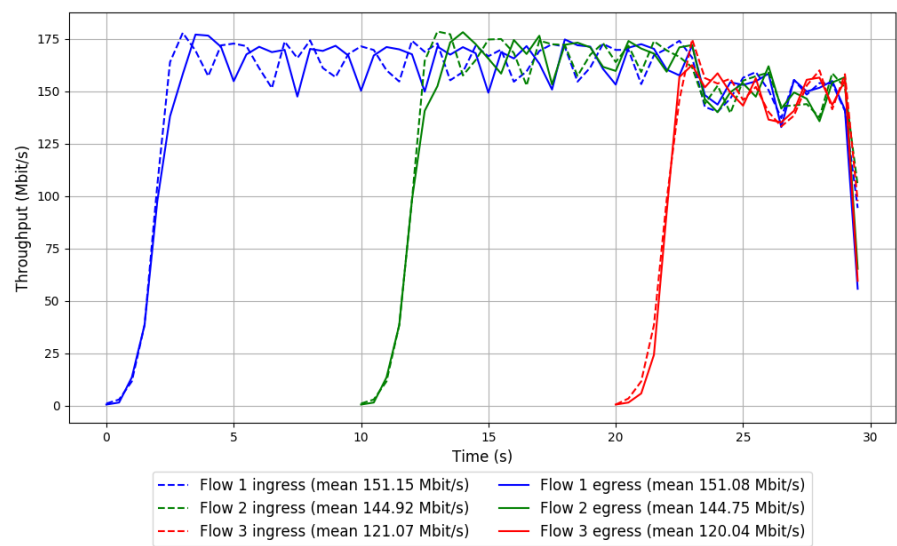
-- Flow 3:

Average throughput: 120.04 Mbit/s

95th percentile per-packet one-way delay: 114.136 ms

Loss rate: 3.10%

Run 6: Report of Indigo-calib — Data Link

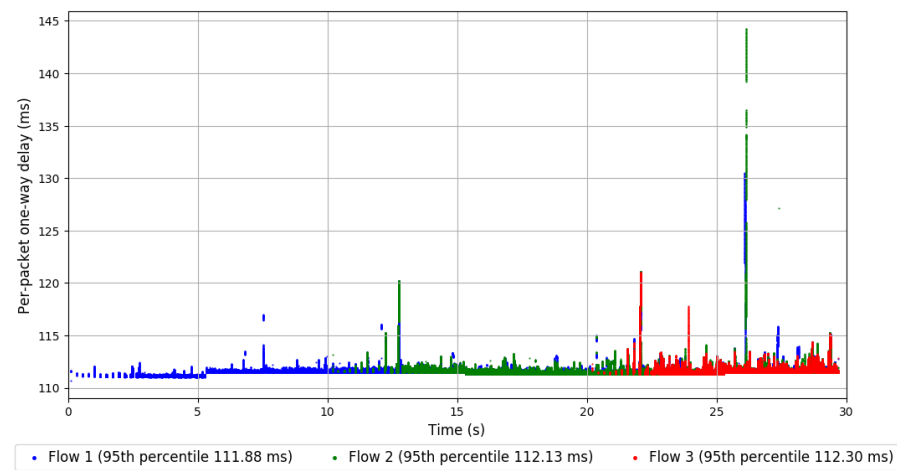
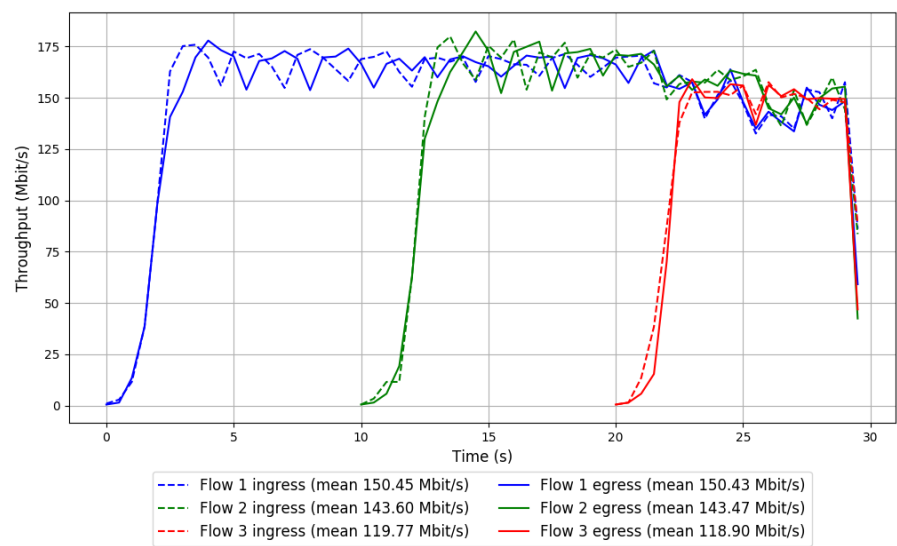


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 21:36:49
End at: 2017-11-30 21:37:19

# Below is generated by plot.py at 2017-12-01 01:26:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.12 Mbit/s
95th percentile per-packet one-way delay: 112.020 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 150.43 Mbit/s
95th percentile per-packet one-way delay: 111.881 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 143.47 Mbit/s
95th percentile per-packet one-way delay: 112.134 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 118.90 Mbit/s
95th percentile per-packet one-way delay: 112.296 ms
Loss rate: 3.00%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 21:50:24

End at: 2017-11-30 21:50:54

Below is generated by plot.py at 2017-12-01 01:26:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.29 Mbit/s

95th percentile per-packet one-way delay: 112.355 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 152.62 Mbit/s

95th percentile per-packet one-way delay: 112.007 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 144.11 Mbit/s

95th percentile per-packet one-way delay: 112.488 ms

Loss rate: 1.13%

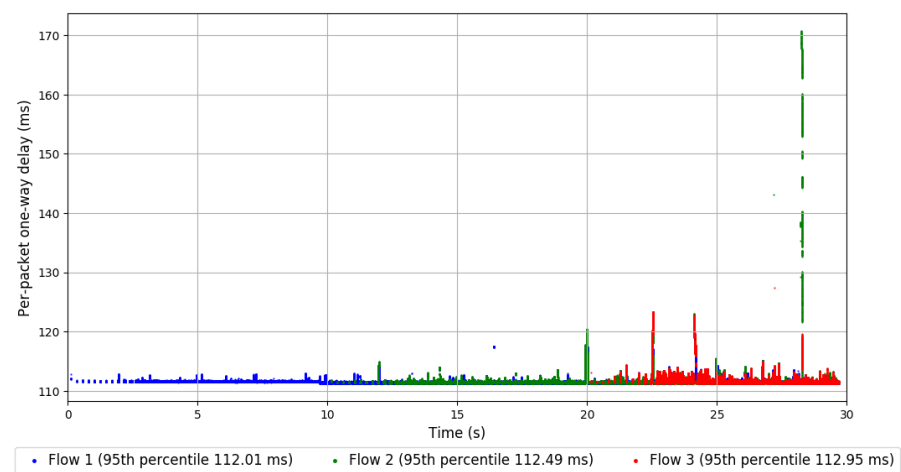
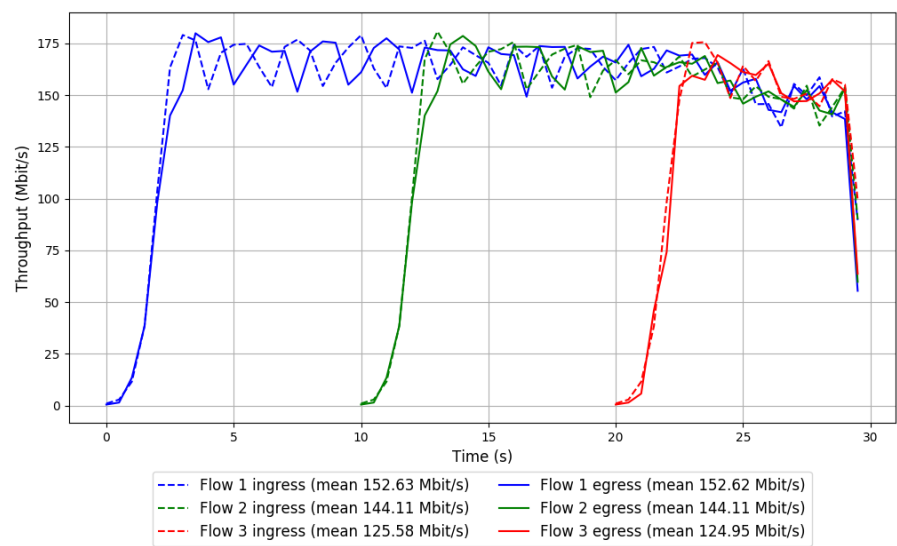
-- Flow 3:

Average throughput: 124.95 Mbit/s

95th percentile per-packet one-way delay: 112.951 ms

Loss rate: 2.80%

Run 8: Report of Indigo-calib — Data Link

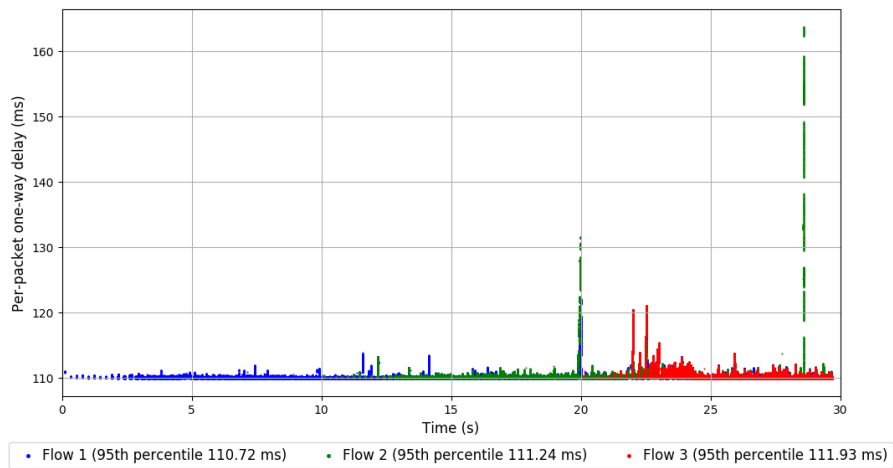
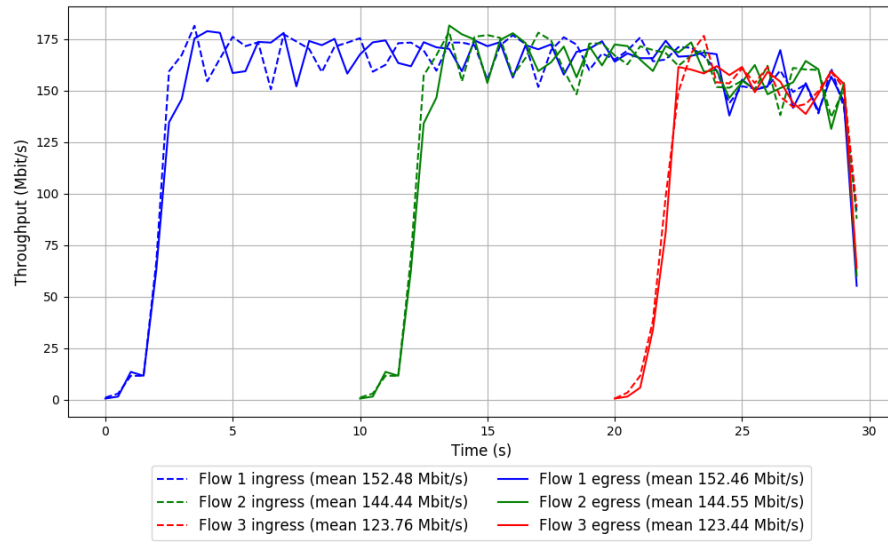


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 22:03:52
End at: 2017-11-30 22:04:22

# Below is generated by plot.py at 2017-12-01 01:26:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.88 Mbit/s
95th percentile per-packet one-way delay: 111.153 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 152.46 Mbit/s
95th percentile per-packet one-way delay: 110.715 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 144.55 Mbit/s
95th percentile per-packet one-way delay: 111.242 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 123.44 Mbit/s
95th percentile per-packet one-way delay: 111.927 ms
Loss rate: 2.56%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 22:17:37

End at: 2017-11-30 22:18:07

Below is generated by plot.py at 2017-12-01 01:26:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.34 Mbit/s

95th percentile per-packet one-way delay: 112.216 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 153.92 Mbit/s

95th percentile per-packet one-way delay: 111.937 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 144.67 Mbit/s

95th percentile per-packet one-way delay: 112.325 ms

Loss rate: 1.25%

-- Flow 3:

Average throughput: 122.80 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 3.04%

Run 10: Report of Indigo-calib — Data Link

