

Pantheon Report

Generated at 2018-01-17 07:30:54 (UTC).

Data path: AWS Korea Ethernet (*local*) → China Ethernet (*remote*).

Repeated the test of 17 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).

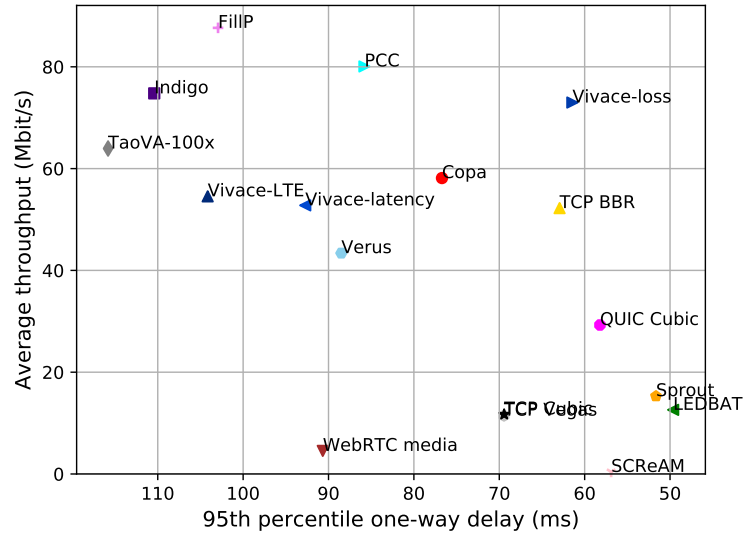
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo_fast*).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

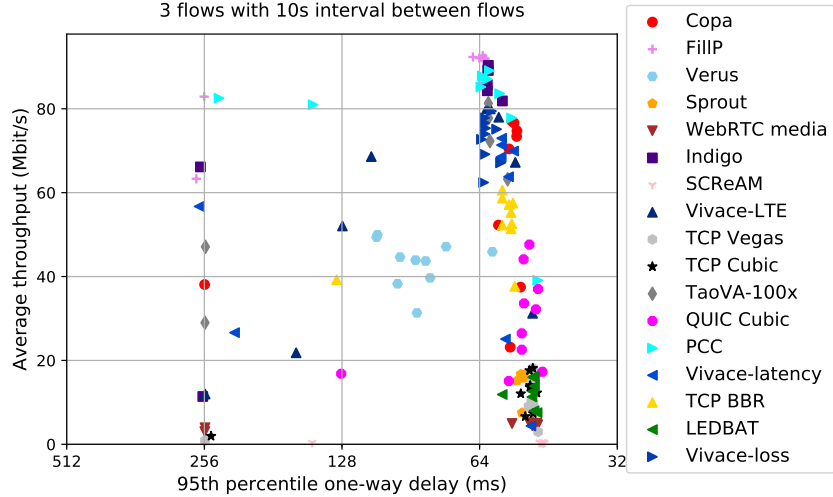
Git summary:

```
branch: master @ 386976fcf771de1359acd909bfbb98a156d79009
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-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/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



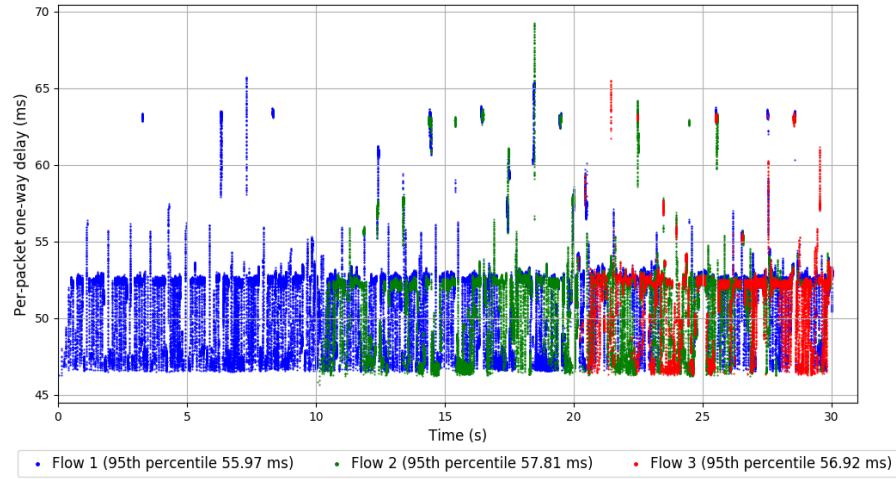
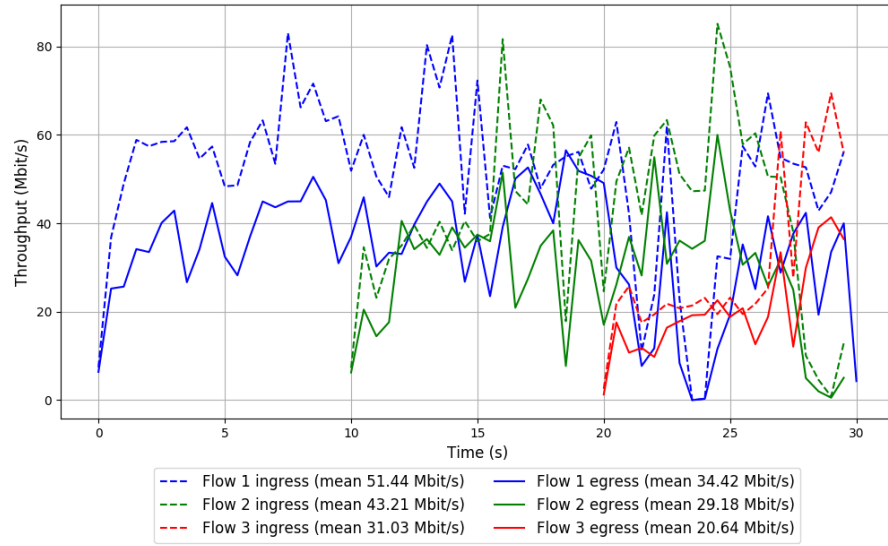
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	29.52	25.15	20.32	69.31	62.09	57.32	35.09	33.65	31.34
TCP Cubic	10	6.27	6.70	6.26	559.37	70.11	75.93	1.14	1.27	2.16
LEDBAT	9	6.50	6.37	5.65	50.69	49.64	48.99	0.44	0.39	0.53
PCC	10	72.06	9.06	6.01	85.15	79.34	80.17	1.40	1.24	1.85
QUIC Cubic	10	13.24	16.08	16.46	59.66	55.03	49.49	0.40	0.57	0.80
SCReAM	10	0.20	0.21	0.21	58.14	45.91	46.00	0.11	0.09	0.04
WebRTC media	10	2.44	1.61	0.52	90.51	90.68	90.89	0.72	1.79	1.97
Sprout	10	7.78	7.70	7.26	55.38	51.49	51.58	2.74	3.13	3.53
TaoVA-100x	7	48.90	57.21	30.63	89.71	2594.97	1165.91	5.49	7.12	17.79
TCP Vegas	10	5.62	5.85	5.89	69.22	69.43	55.43	0.70	1.39	1.37
Verus	10	27.91	14.63	18.40	82.60	71.25	86.38	73.64	60.98	74.95
Copa	9	37.30	26.10	14.76	55.16	77.06	75.97	0.30	0.52	2.42
FillP	10	43.30	45.81	41.91	103.00	84.03	75.44	30.73	35.45	45.72
Indigo	8	44.21	30.38	29.17	109.27	91.81	88.12	17.05	25.34	34.18
Vivace-latency	10	40.42	12.49	12.32	95.90	78.63	77.10	1.17	1.47	2.24
Vivace-loss	10	54.13	24.00	8.80	61.42	61.90	61.63	1.82	1.87	2.19
Vivace-LTE	9	39.82	16.95	10.23	100.28	106.80	98.27	1.79	2.66	2.63

Run 1: Statistics of TCP BBR

Start at: 2018-01-17 02:50:39
End at: 2018-01-17 02:51:09
Local clock offset: -0.817 ms
Remote clock offset: -4.674 ms

Below is generated by plot.py at 2018-01-17 07:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.61 Mbit/s
95th percentile per-packet one-way delay: 57.083 ms
Loss rate: 32.92%
-- Flow 1:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 55.970 ms
Loss rate: 33.07%
-- Flow 2:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 57.813 ms
Loss rate: 32.45%
-- Flow 3:
Average throughput: 20.64 Mbit/s
95th percentile per-packet one-way delay: 56.918 ms
Loss rate: 33.47%

Run 1: Report of TCP BBR — Data Link

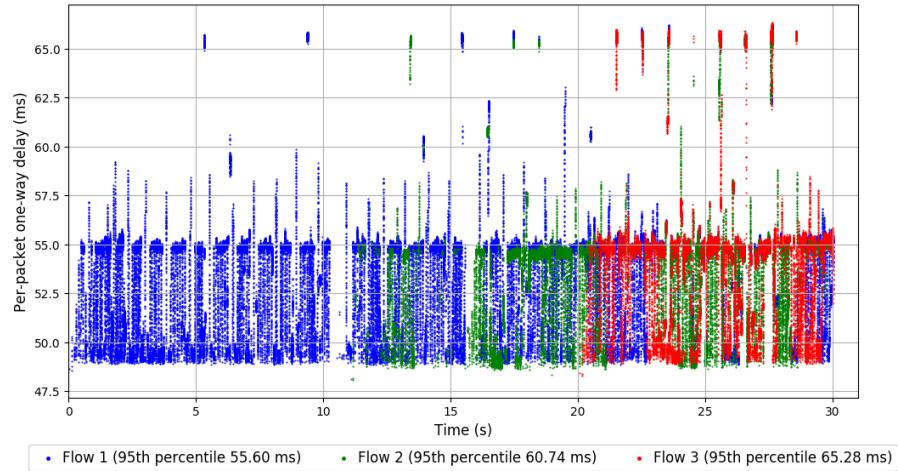
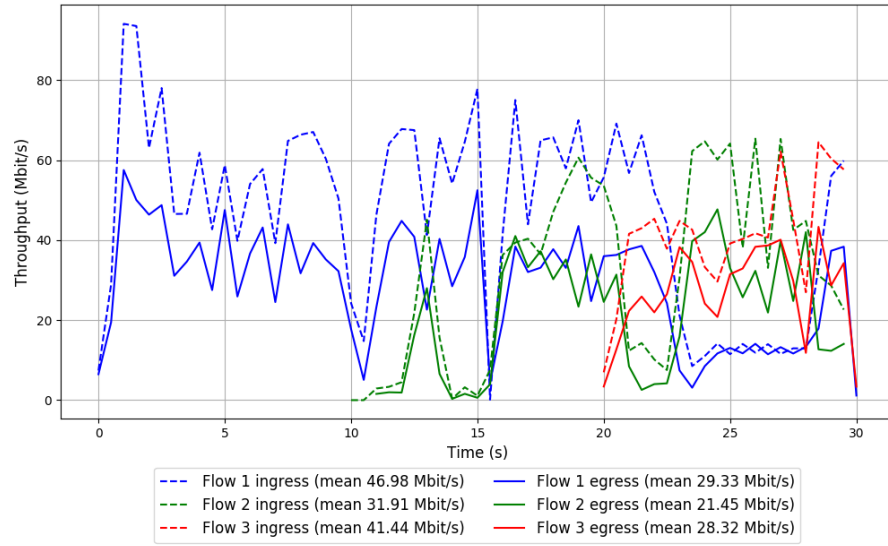


Run 2: Statistics of TCP BBR

Start at: 2018-01-17 03:13:39
End at: 2018-01-17 03:14:09
Local clock offset: -2.778 ms
Remote clock offset: -2.222 ms

Below is generated by plot.py at 2018-01-17 07:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.26 Mbit/s
95th percentile per-packet one-way delay: 57.091 ms
Loss rate: 36.21%
-- Flow 1:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 55.599 ms
Loss rate: 37.54%
-- Flow 2:
Average throughput: 21.45 Mbit/s
95th percentile per-packet one-way delay: 60.737 ms
Loss rate: 36.21%
-- Flow 3:
Average throughput: 28.32 Mbit/s
95th percentile per-packet one-way delay: 65.283 ms
Loss rate: 31.63%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-17 03:36:43

End at: 2018-01-17 03:37:13

Local clock offset: 0.596 ms

Remote clock offset: 0.739 ms

Below is generated by plot.py at 2018-01-17 07:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.39 Mbit/s

95th percentile per-packet one-way delay: 54.604 ms

Loss rate: 38.30%

-- Flow 1:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 54.537 ms

Loss rate: 38.19%

-- Flow 2:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 55.207 ms

Loss rate: 40.17%

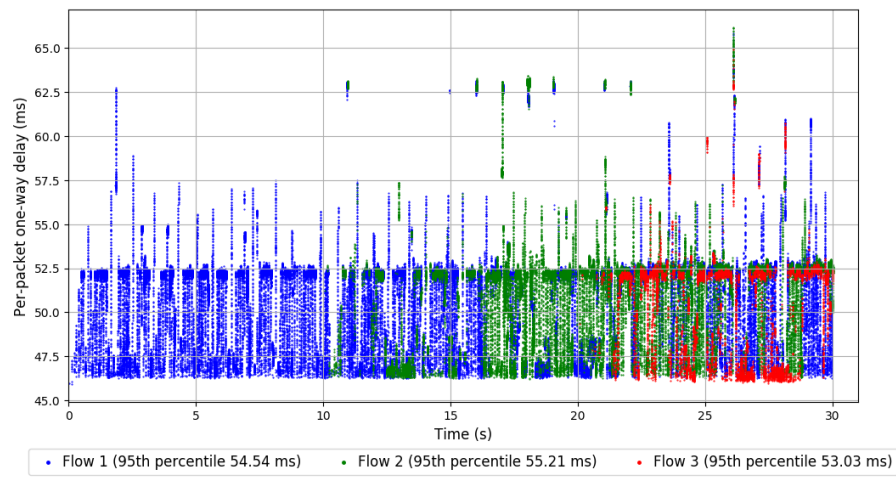
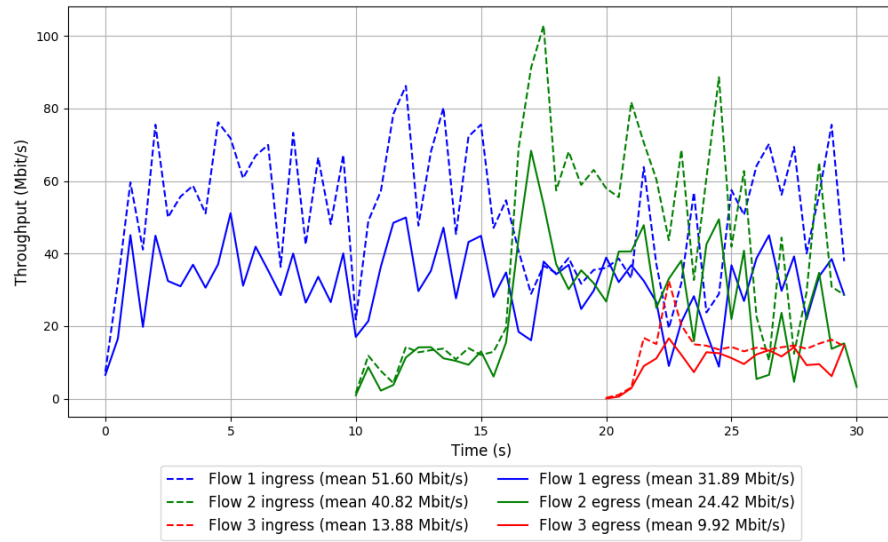
-- Flow 3:

Average throughput: 9.92 Mbit/s

95th percentile per-packet one-way delay: 53.031 ms

Loss rate: 28.51%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-17 03:59:50

End at: 2018-01-17 04:00:20

Local clock offset: -1.564 ms

Remote clock offset: 3.521 ms

Below is generated by plot.py at 2018-01-17 07:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 57.103 ms

Loss rate: 36.09%

-- Flow 1:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 55.903 ms

Loss rate: 39.22%

-- Flow 2:

Average throughput: 28.34 Mbit/s

95th percentile per-packet one-way delay: 58.205 ms

Loss rate: 30.36%

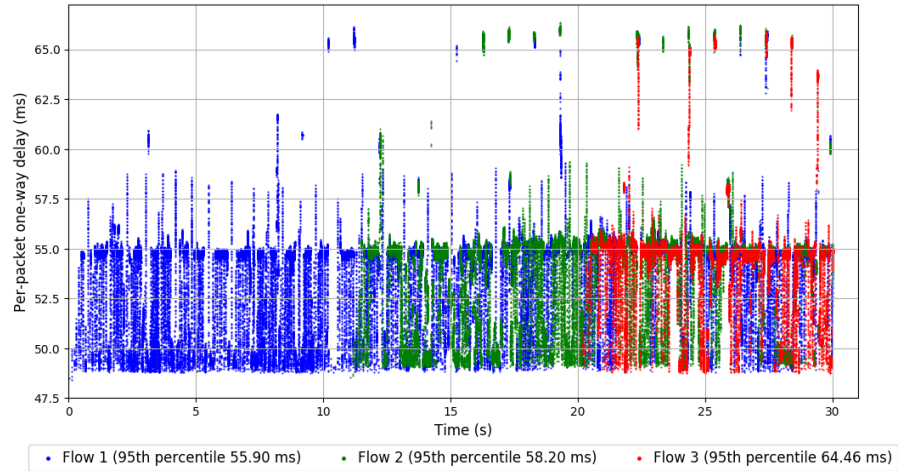
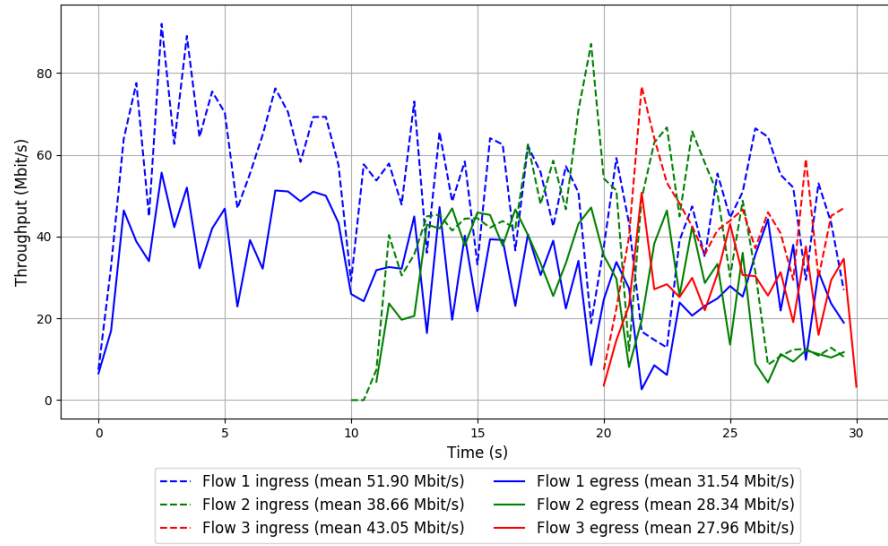
-- Flow 3:

Average throughput: 27.96 Mbit/s

95th percentile per-packet one-way delay: 64.463 ms

Loss rate: 35.05%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-17 04:22:37

End at: 2018-01-17 04:23:07

Local clock offset: 1.686 ms

Remote clock offset: 5.822 ms

Below is generated by plot.py at 2018-01-17 07:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.19 Mbit/s

95th percentile per-packet one-way delay: 55.187 ms

Loss rate: 35.95%

-- Flow 1:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 54.803 ms

Loss rate: 37.14%

-- Flow 2:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 54.534 ms

Loss rate: 34.69%

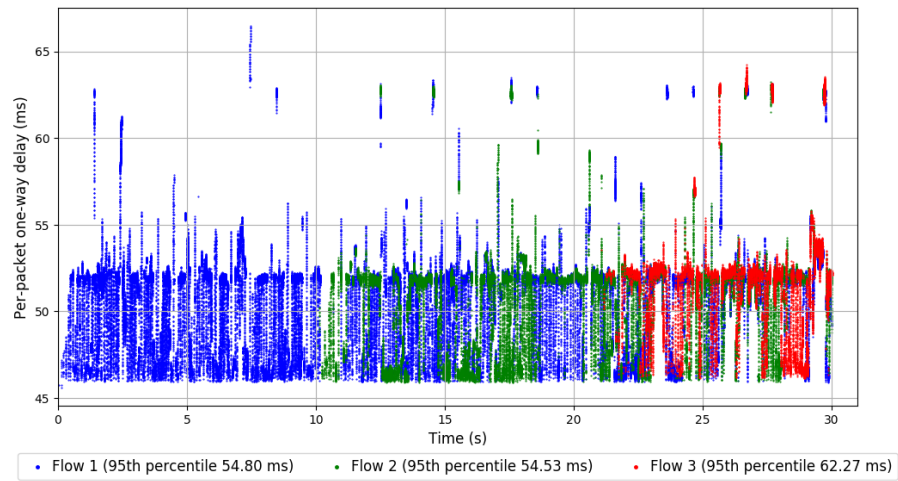
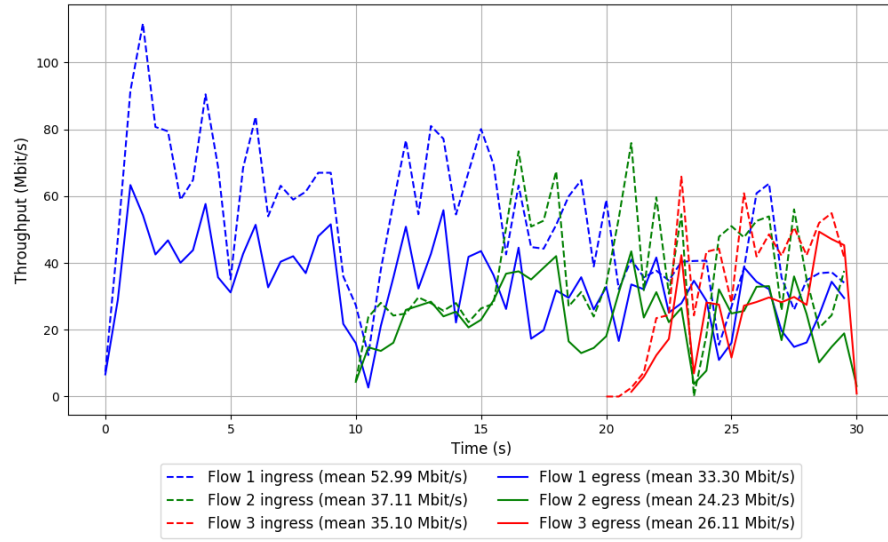
-- Flow 3:

Average throughput: 26.11 Mbit/s

95th percentile per-packet one-way delay: 62.272 ms

Loss rate: 33.17%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-17 04:52:01

End at: 2018-01-17 04:52:31

Local clock offset: 2.387 ms

Remote clock offset: 4.362 ms

Below is generated by plot.py at 2018-01-17 07:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 53.589 ms

Loss rate: 32.43%

-- Flow 1:

Average throughput: 17.72 Mbit/s

95th percentile per-packet one-way delay: 54.255 ms

Loss rate: 29.17%

-- Flow 2:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 35.47%

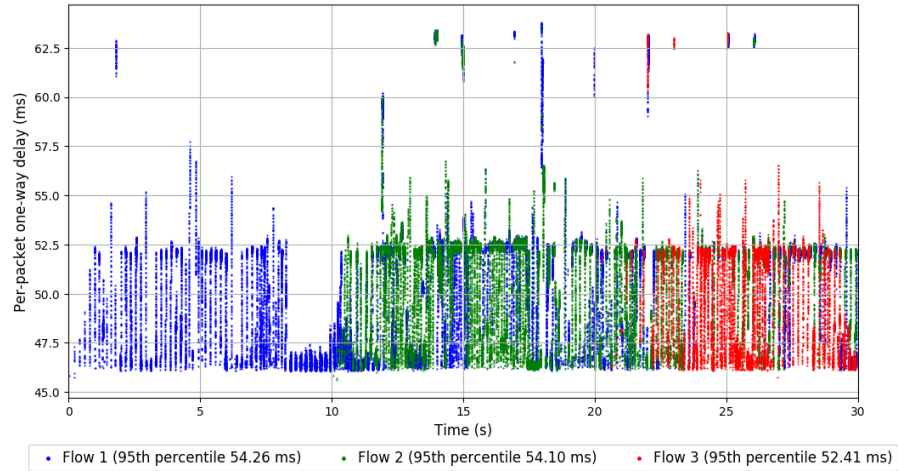
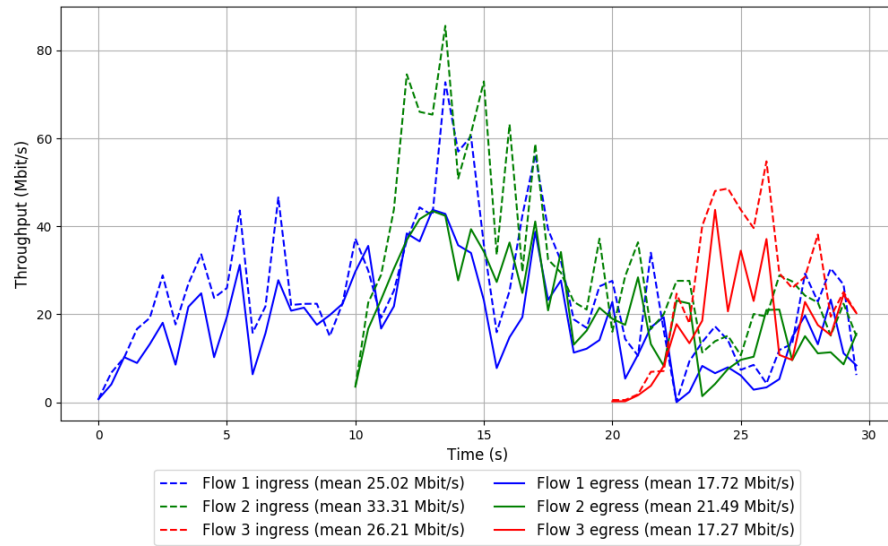
-- Flow 3:

Average throughput: 17.27 Mbit/s

95th percentile per-packet one-way delay: 52.409 ms

Loss rate: 34.09%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-17 05:15:31

End at: 2018-01-17 05:16:01

Local clock offset: 2.8 ms

Remote clock offset: 1.939 ms

Below is generated by plot.py at 2018-01-17 07:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 54.113 ms

Loss rate: 30.64%

-- Flow 1:

Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: 53.659 ms

Loss rate: 30.68%

-- Flow 2:

Average throughput: 27.82 Mbit/s

95th percentile per-packet one-way delay: 56.643 ms

Loss rate: 33.05%

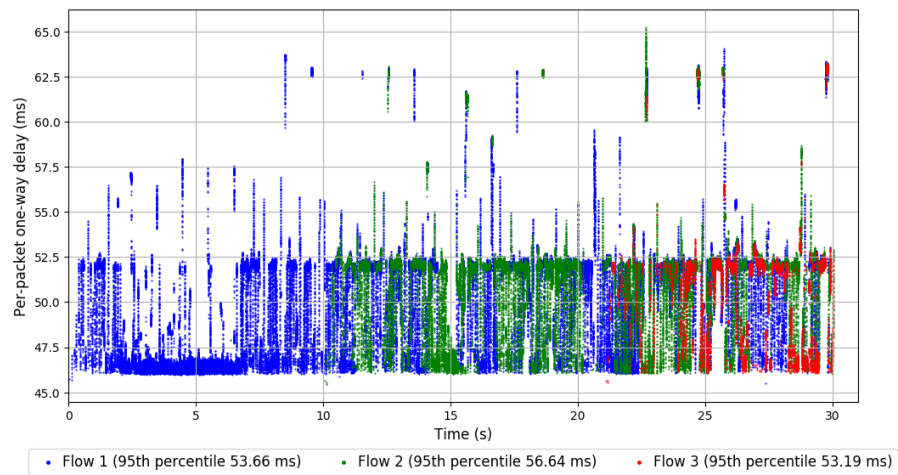
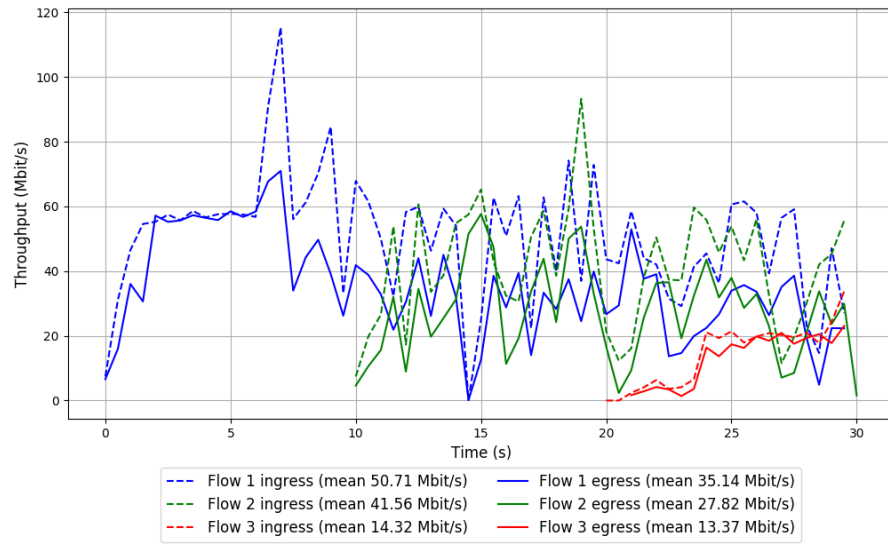
-- Flow 3:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 53.194 ms

Loss rate: 16.10%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-17 05:38:40

End at: 2018-01-17 05:39:10

Local clock offset: 2.053 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-01-17 07:11:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.62 Mbit/s

95th percentile per-packet one-way delay: 54.435 ms

Loss rate: 39.17%

-- Flow 1:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 54.657 ms

Loss rate: 37.92%

-- Flow 2:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: 53.887 ms

Loss rate: 40.38%

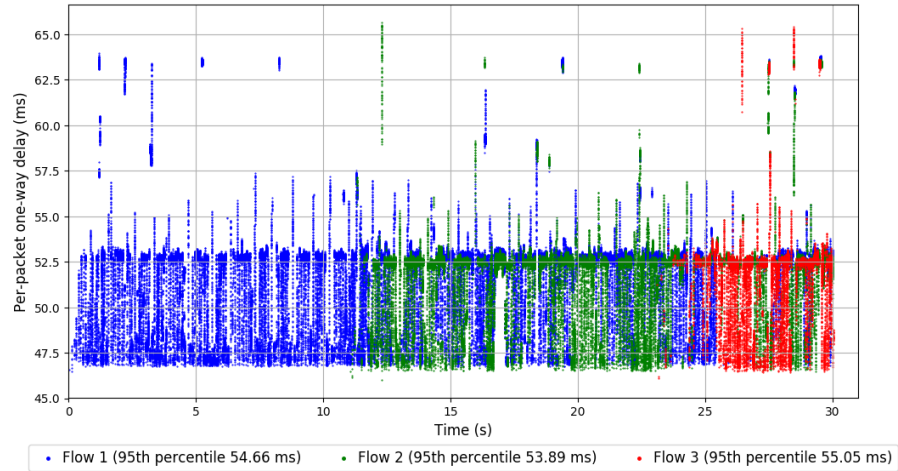
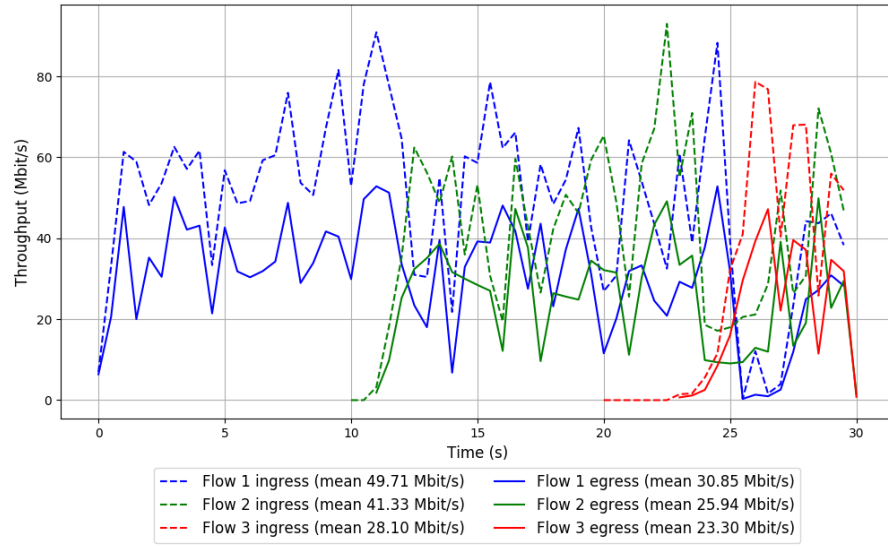
-- Flow 3:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 55.046 ms

Loss rate: 42.28%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-17 06:01:35

End at: 2018-01-17 06:02:05

Local clock offset: 2.182 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.27 Mbit/s

95th percentile per-packet one-way delay: 54.642 ms

Loss rate: 34.75%

-- Flow 1:

Average throughput: 30.97 Mbit/s

95th percentile per-packet one-way delay: 54.525 ms

Loss rate: 39.11%

-- Flow 2:

Average throughput: 25.78 Mbit/s

95th percentile per-packet one-way delay: 54.913 ms

Loss rate: 27.32%

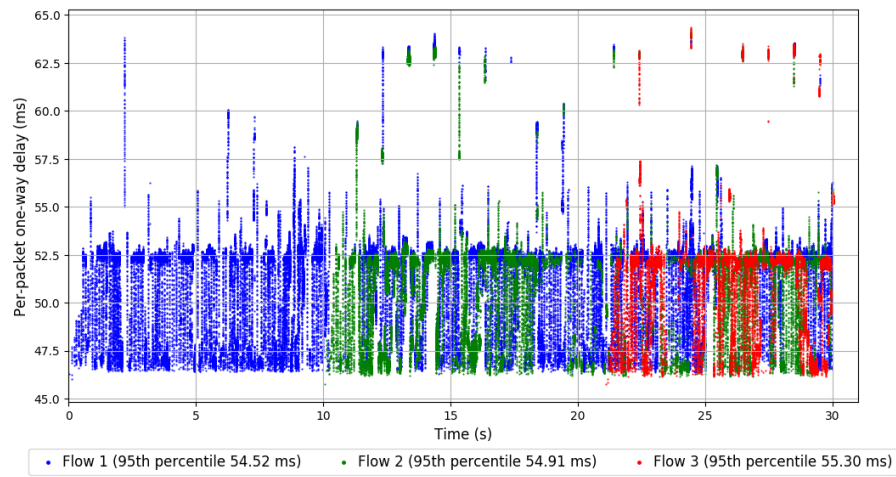
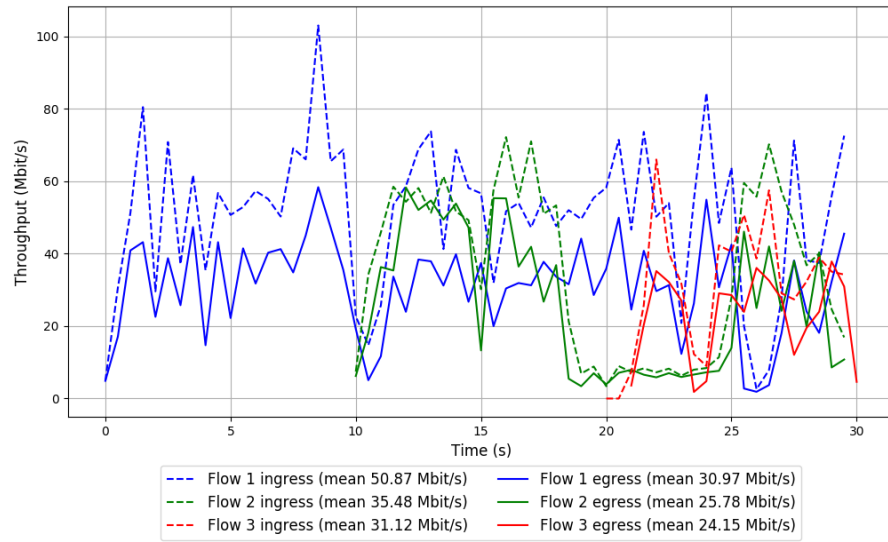
-- Flow 3:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 55.298 ms

Loss rate: 30.26%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-17 06:24:29

End at: 2018-01-17 06:24:59

Local clock offset: 2.632 ms

Remote clock offset: 2.024 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 131.509 ms

Loss rate: 27.92%

-- Flow 1:

Average throughput: 20.00 Mbit/s

95th percentile per-packet one-way delay: 199.216 ms

Loss rate: 28.89%

-- Flow 2:

Average throughput: 22.82 Mbit/s

95th percentile per-packet one-way delay: 114.826 ms

Loss rate: 26.36%

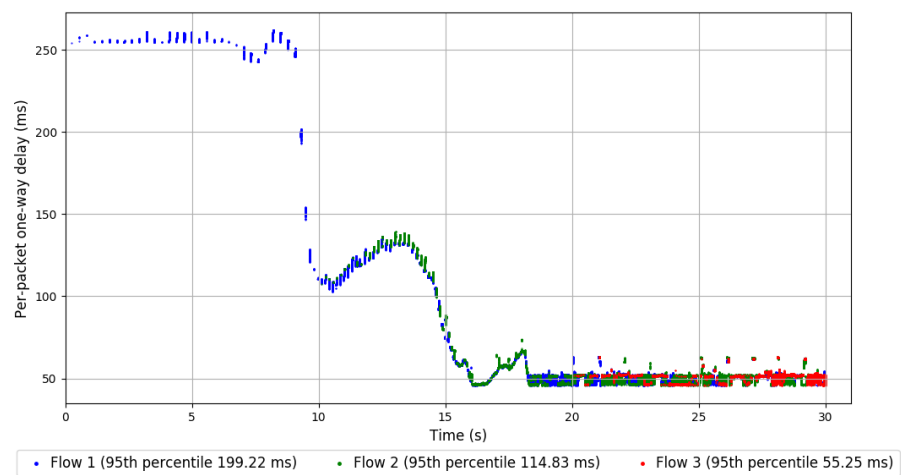
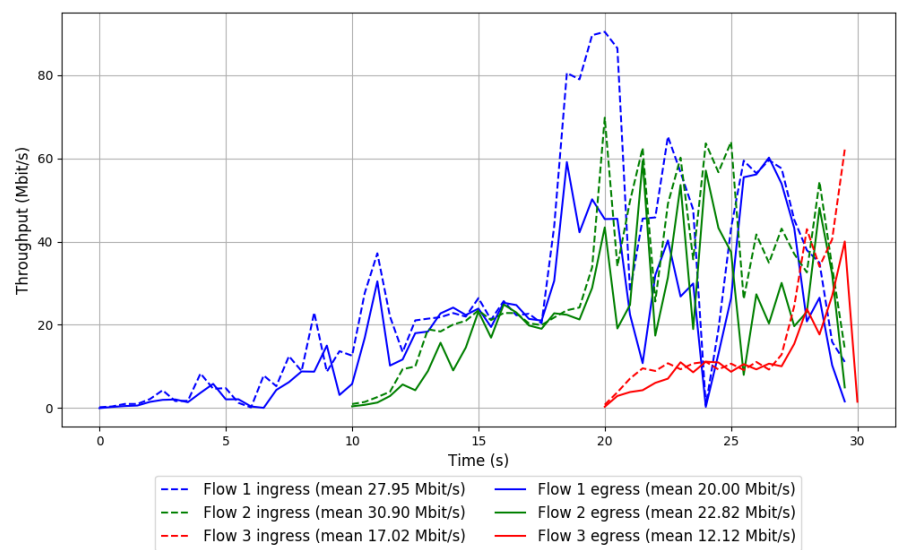
-- Flow 3:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 55.252 ms

Loss rate: 28.79%

Run 10: Report of TCP BBR — Data Link

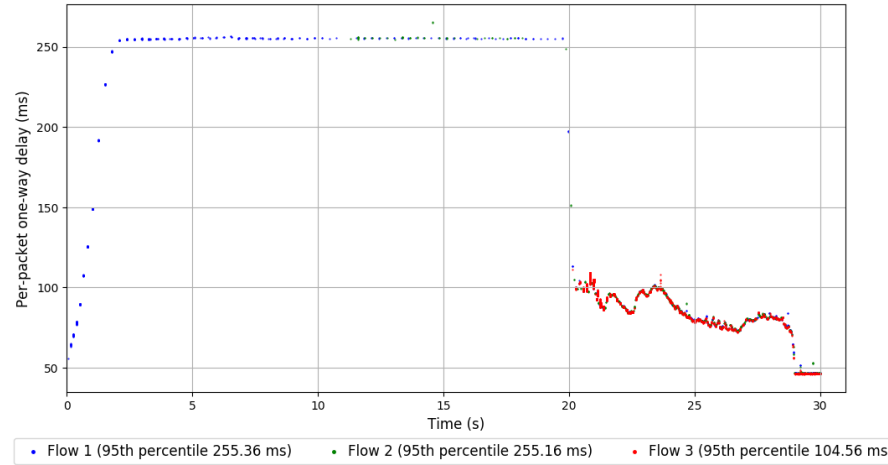
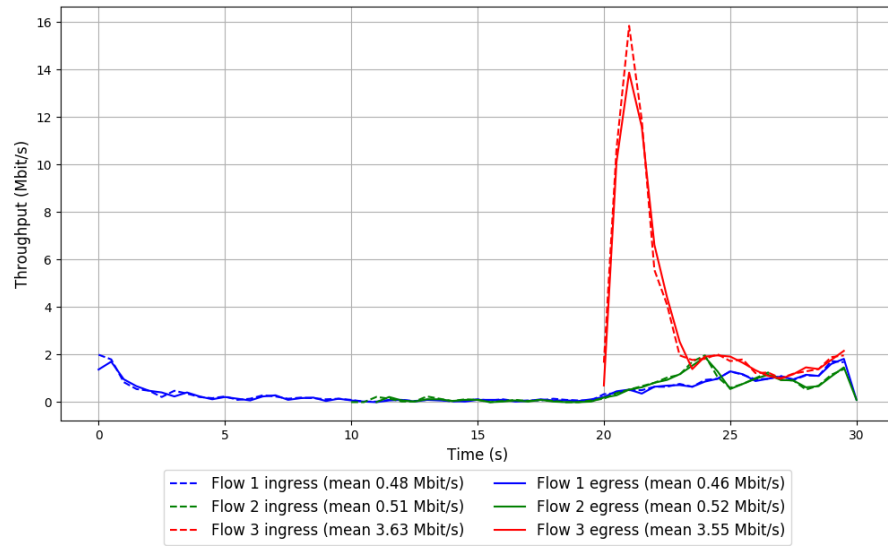


Run 1: Statistics of TCP Cubic

Start at: 2018-01-17 03:03:38
End at: 2018-01-17 03:04:08
Local clock offset: -0.284 ms
Remote clock offset: -3.584 ms

Below is generated by plot.py at 2018-01-17 07:12:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 247.495 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 255.356 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 255.158 ms
Loss rate: 2.89%
-- Flow 3:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 104.555 ms
Loss rate: 2.70%

Run 1: Report of TCP Cubic — Data Link

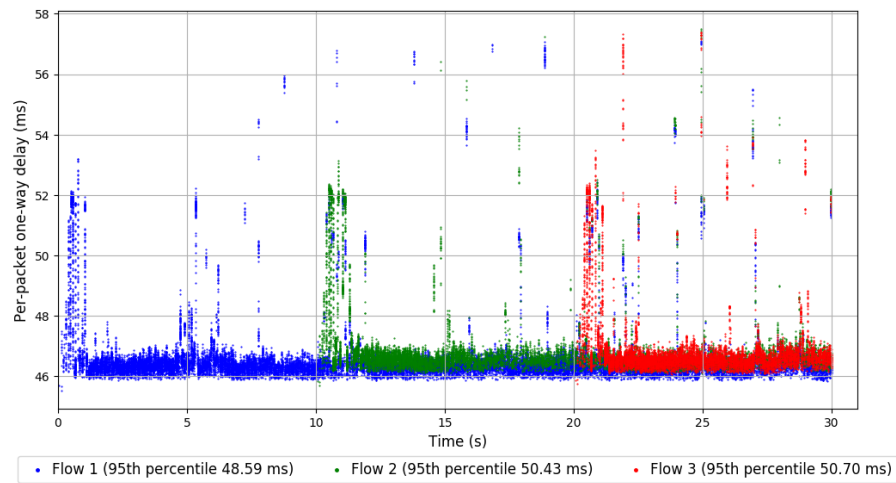
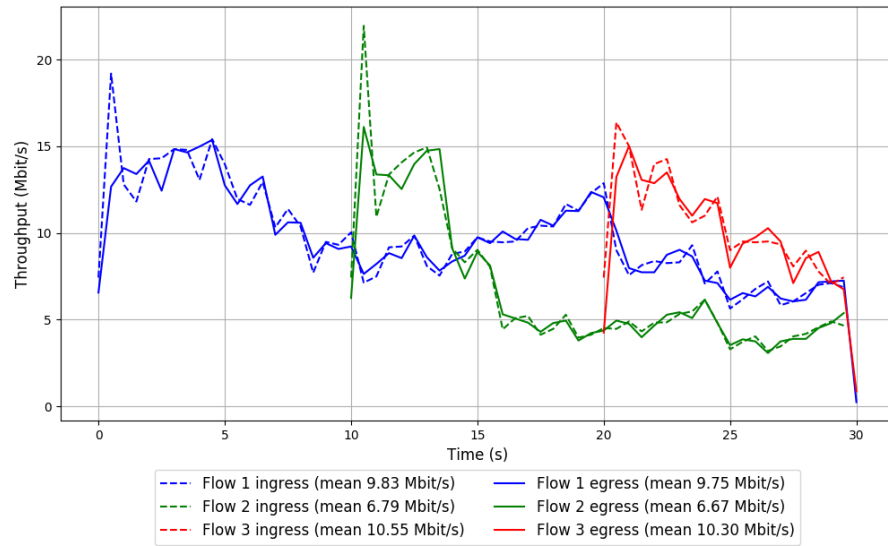


Run 2: Statistics of TCP Cubic

Start at: 2018-01-17 03:26:33
End at: 2018-01-17 03:27:03
Local clock offset: 0.38 ms
Remote clock offset: -0.519 ms

Below is generated by plot.py at 2018-01-17 07:12:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.60 Mbit/s
95th percentile per-packet one-way delay: 49.778 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 48.593 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 50.427 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 50.699 ms
Loss rate: 2.37%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-17 03:49:23

End at: 2018-01-17 03:49:53

Local clock offset: 1.18 ms

Remote clock offset: 2.454 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 52.020 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 50.367 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 51.743 ms

Loss rate: 1.59%

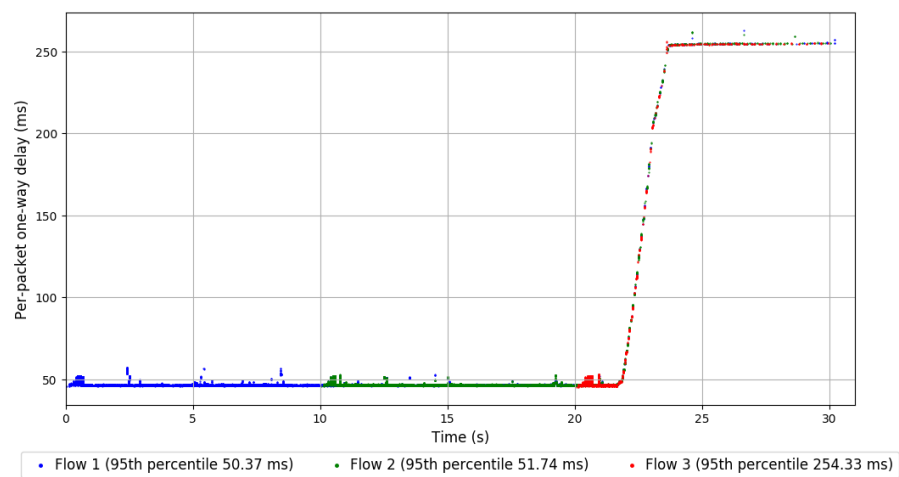
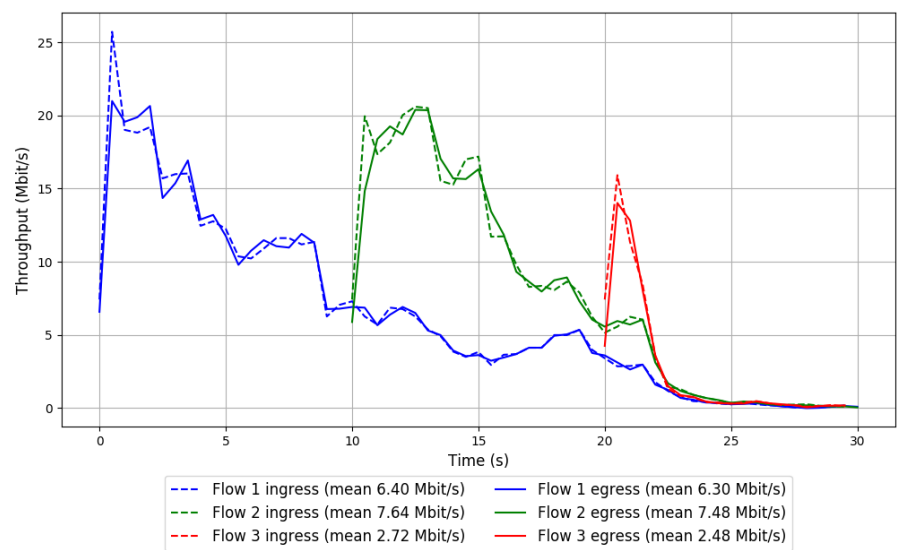
-- Flow 3:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 254.333 ms

Loss rate: 7.16%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-17 04:12:44

End at: 2018-01-17 04:13:14

Local clock offset: 1.172 ms

Remote clock offset: 4.966 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 48.953 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 48.934 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 48.860 ms

Loss rate: 0.31%

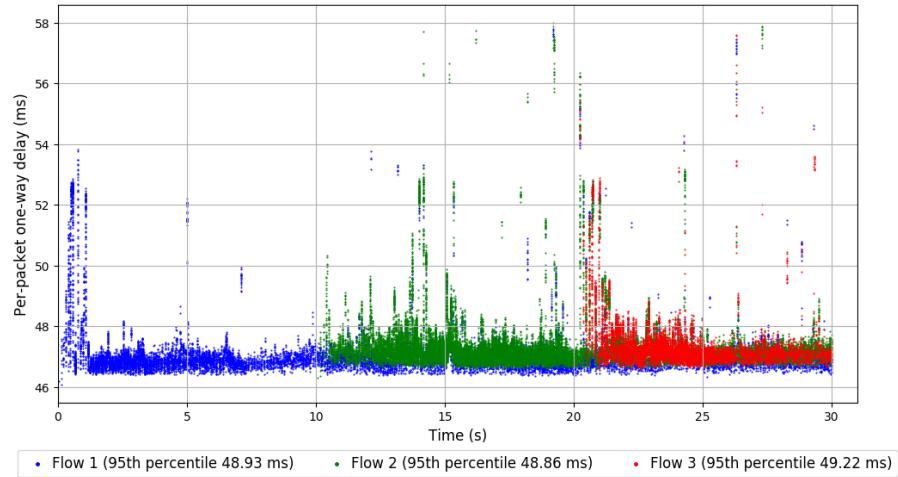
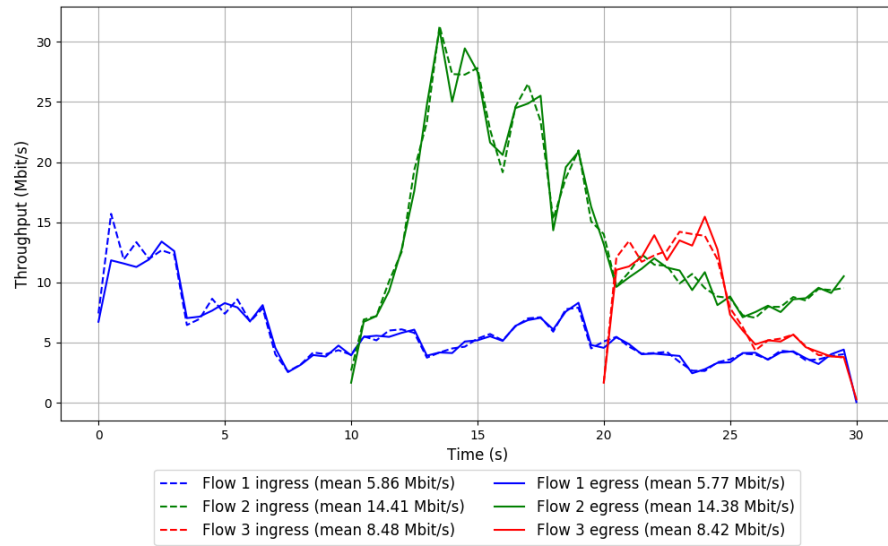
-- Flow 3:

Average throughput: 8.42 Mbit/s

95th percentile per-packet one-way delay: 49.216 ms

Loss rate: 0.73%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-17 04:38:54

End at: 2018-01-17 04:39:24

Local clock offset: 2.282 ms

Remote clock offset: 5.184 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.63 Mbit/s

95th percentile per-packet one-way delay: 49.698 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 48.470 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 49.306 ms

Loss rate: 0.89%

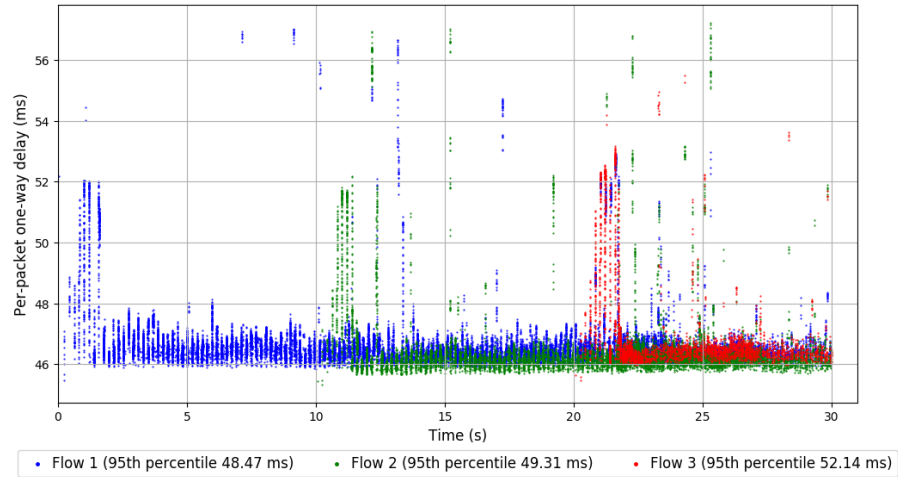
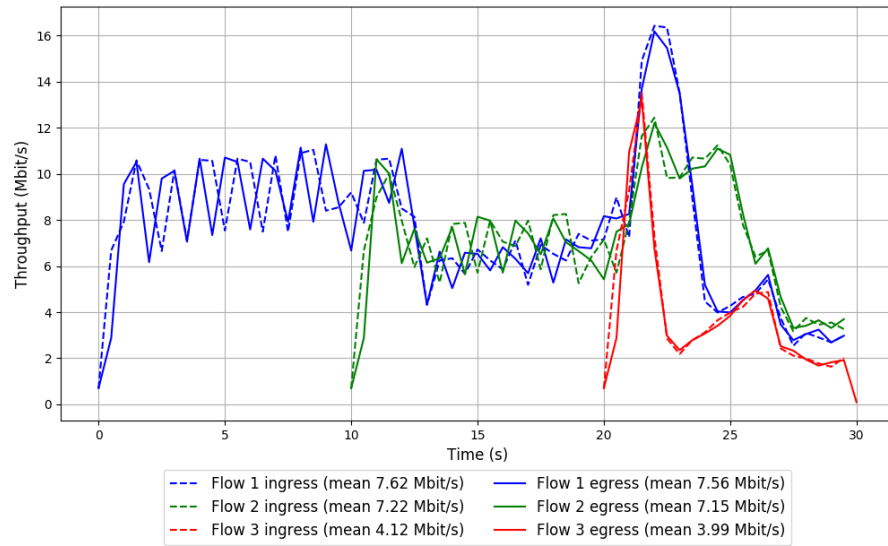
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 52.141 ms

Loss rate: 3.13%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-17 05:05:14

End at: 2018-01-17 05:05:44

Local clock offset: 2.335 ms

Remote clock offset: 3.331 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 49.053 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 48.826 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 48.687 ms

Loss rate: 0.42%

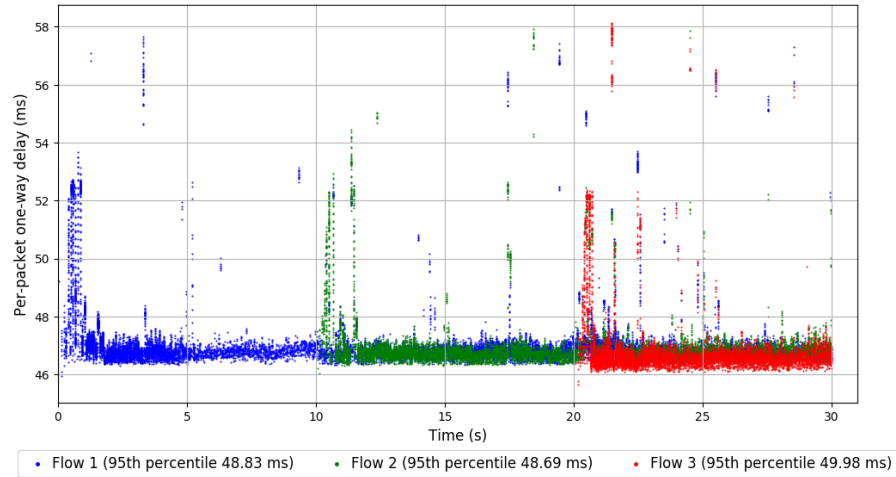
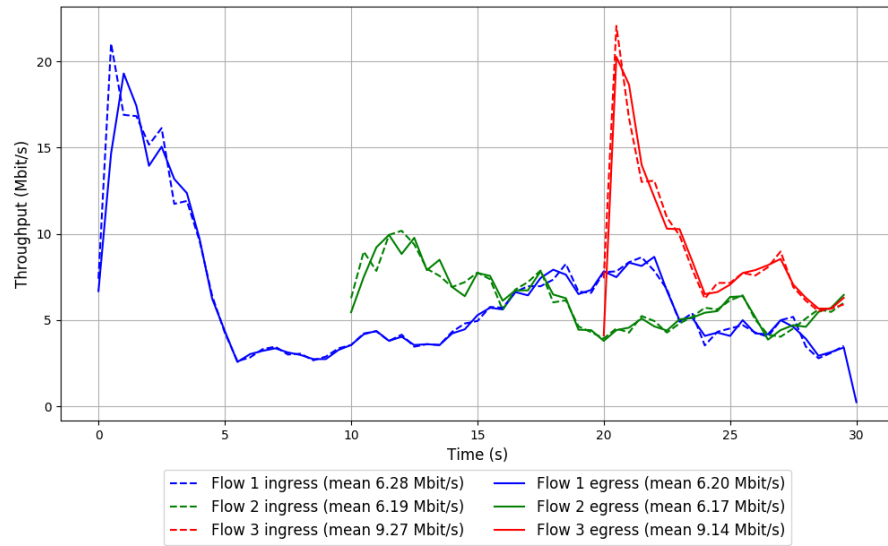
-- Flow 3:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 49.982 ms

Loss rate: 1.34%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-17 05:28:43

End at: 2018-01-17 05:29:13

Local clock offset: 2.041 ms

Remote clock offset: 0.7 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.03 Mbit/s

95th percentile per-packet one-way delay: 49.600 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 48.895 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 49.649 ms

Loss rate: 1.63%

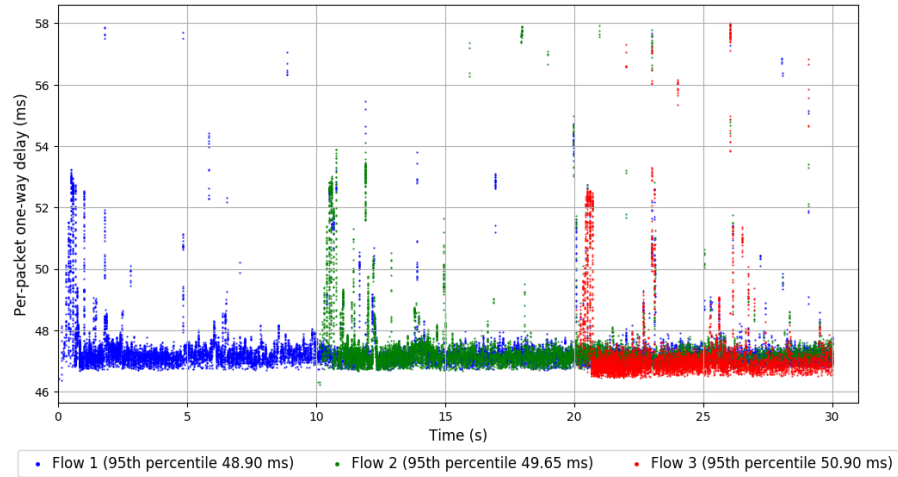
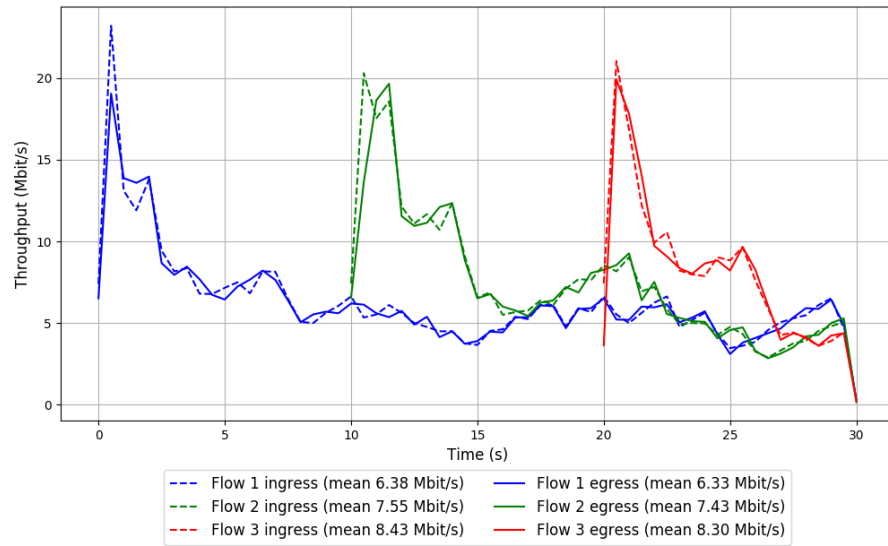
-- Flow 3:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 50.899 ms

Loss rate: 1.56%

Run 7: Report of TCP Cubic — Data Link

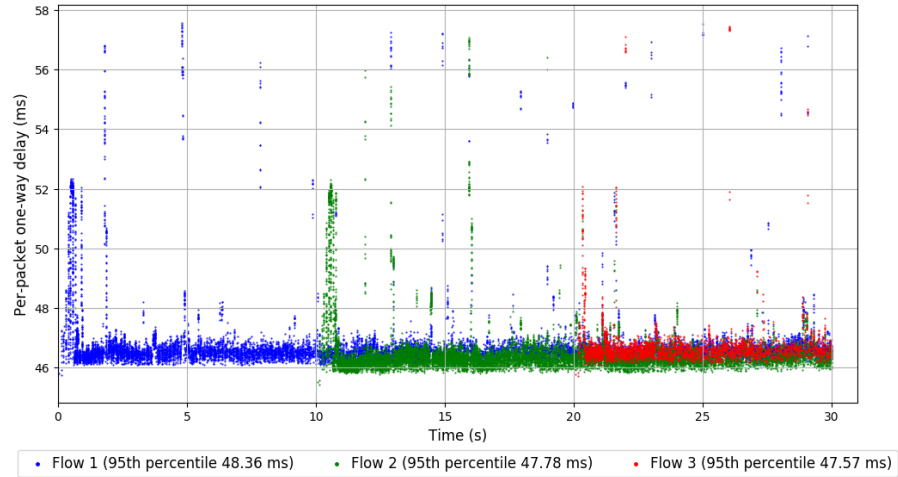
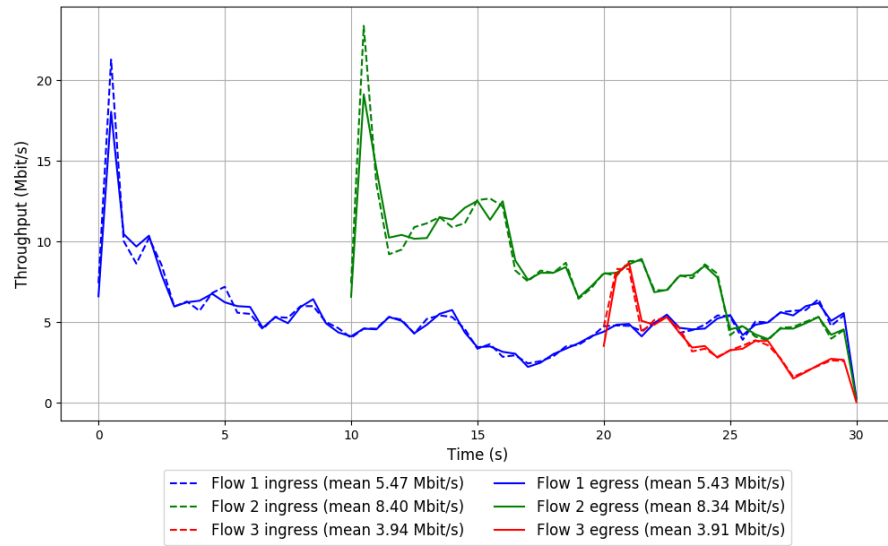


Run 8: Statistics of TCP Cubic

Start at: 2018-01-17 05:51:39
End at: 2018-01-17 05:52:09
Local clock offset: 2.582 ms
Remote clock offset: -0.794 ms

Below is generated by plot.py at 2018-01-17 07:12:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 47.961 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 5.43 Mbit/s
95th percentile per-packet one-way delay: 48.359 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 47.783 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 47.571 ms
Loss rate: 0.64%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-17 06:14:35

End at: 2018-01-17 06:15:05

Local clock offset: 1.765 ms

Remote clock offset: 1.339 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 50.851 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 4946.913 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 50.443 ms

Loss rate: 1.25%

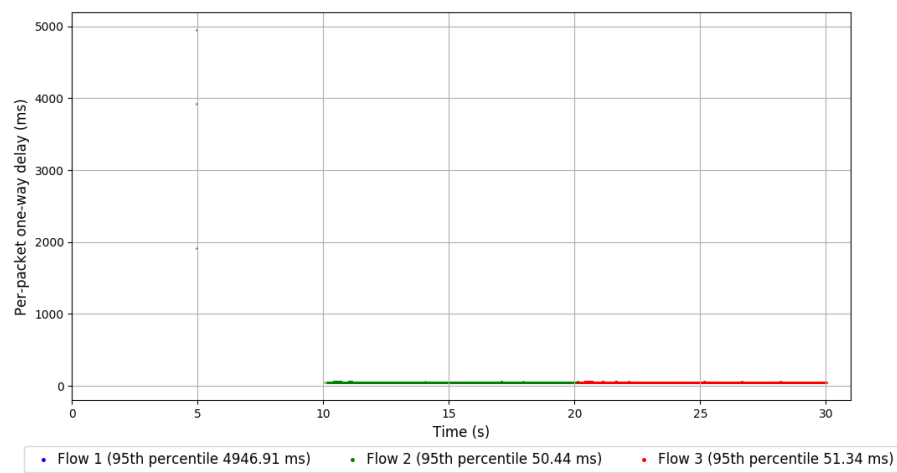
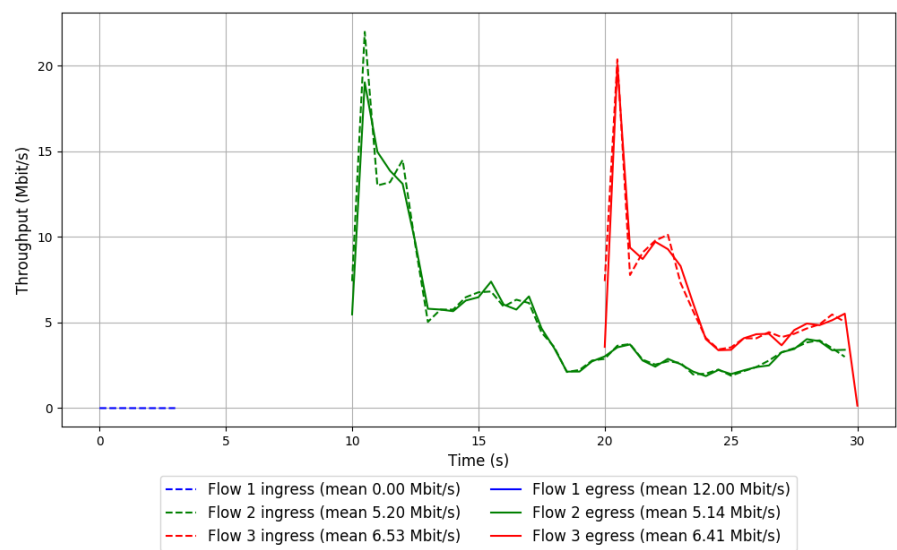
-- Flow 3:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 51.345 ms

Loss rate: 1.74%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-17 06:39:03

End at: 2018-01-17 06:39:33

Local clock offset: 1.746 ms

Remote clock offset: 3.222 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 48.869 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 49.001 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 49.092 ms

Loss rate: 1.15%

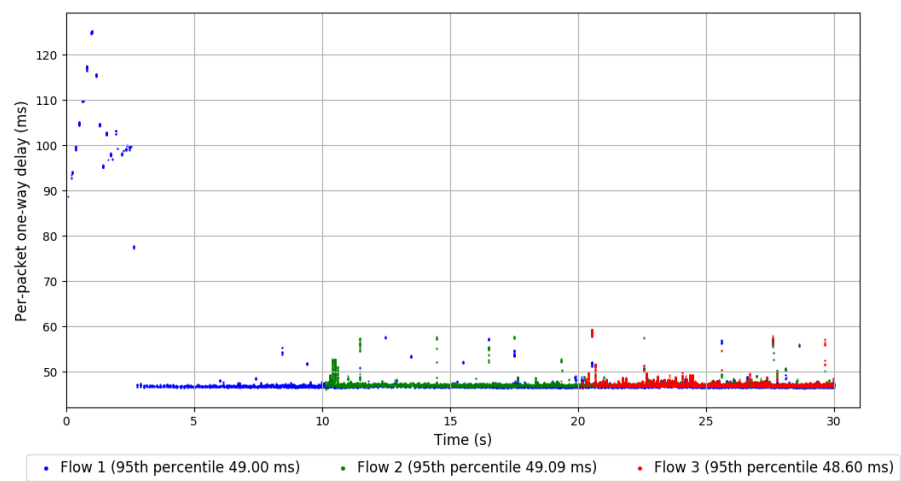
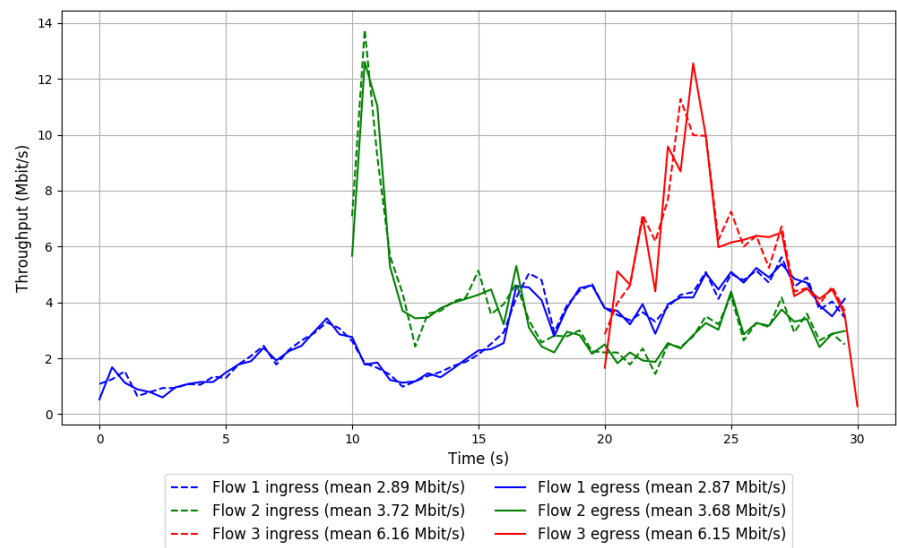
-- Flow 3:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 48.600 ms

Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link

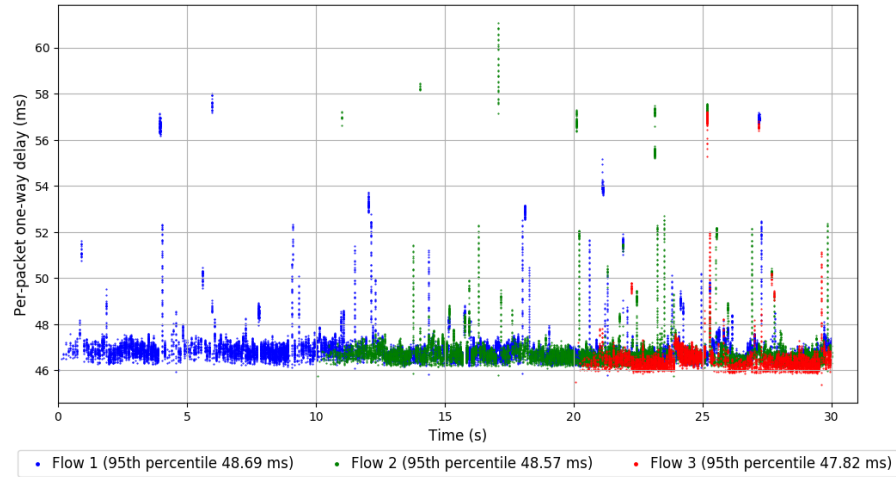
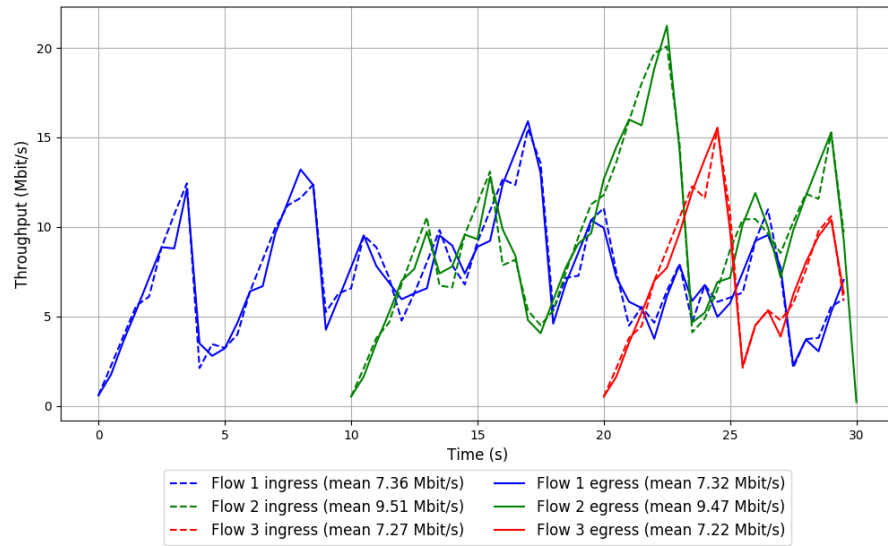


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-17 03:06:17
End at: 2018-01-17 03:06:47
Local clock offset: -0.321 ms
Remote clock offset: -3.211 ms

# Below is generated by plot.py at 2018-01-17 07:12:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.99 Mbit/s
95th percentile per-packet one-way delay: 48.584 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 48.693 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 48.571 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 47.817 ms
Loss rate: 0.67%
```

Run 1: Report of LEDBAT — Data Link

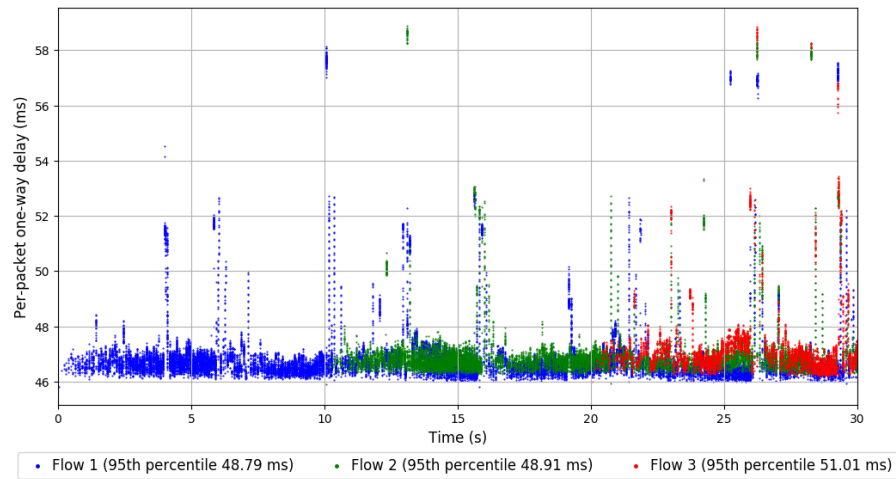
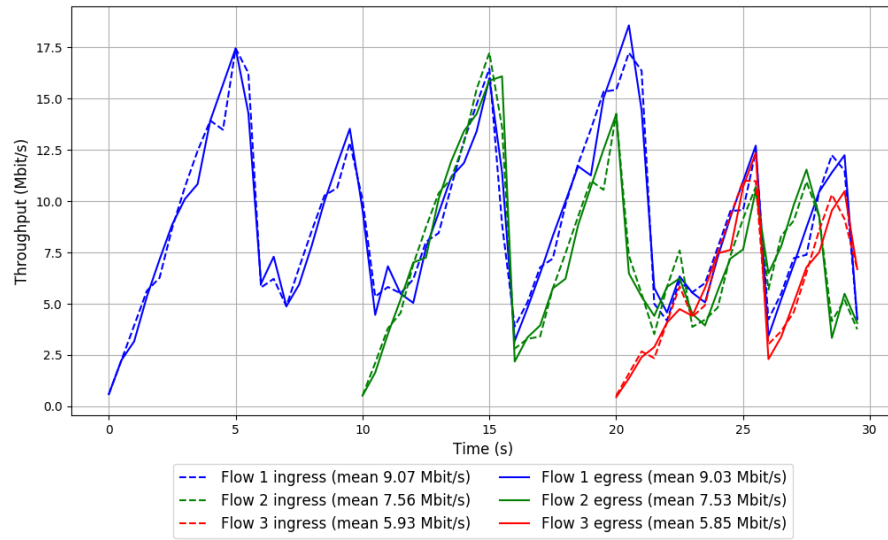


Run 2: Statistics of LEDBAT

Start at: 2018-01-17 03:29:02
End at: 2018-01-17 03:29:32
Local clock offset: 0.285 ms
Remote clock offset: -0.228 ms

Below is generated by plot.py at 2018-01-17 07:12:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 49.005 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 48.794 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 48.908 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 51.007 ms
Loss rate: 1.38%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

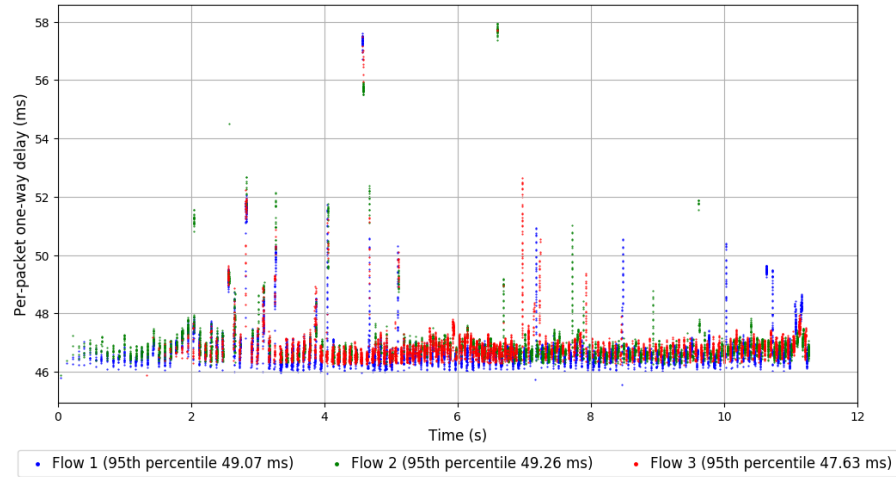
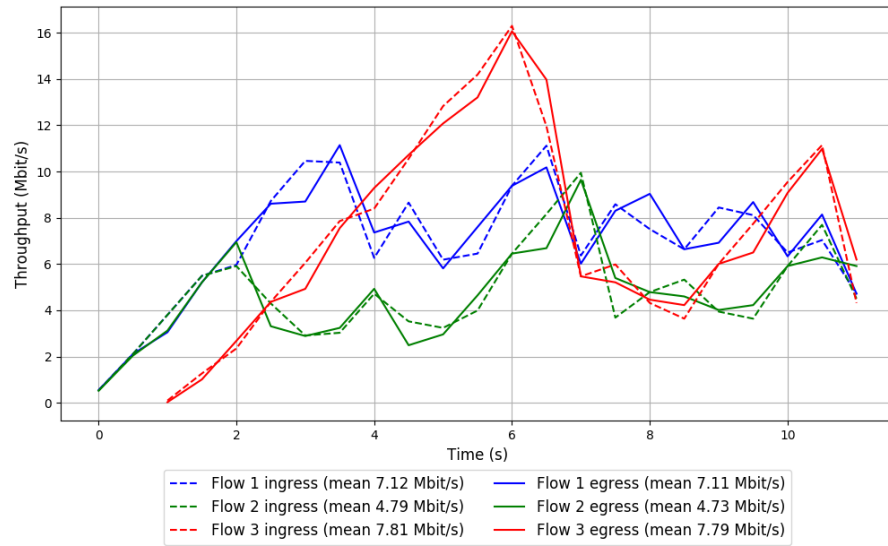
Start at: 2018-01-17 03:52:07

End at: 2018-01-17 03:52:37

Local clock offset: 1.053 ms

Remote clock offset: 2.782 ms

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-17 04:15:10

End at: 2018-01-17 04:15:40

Local clock offset: 1.58 ms

Remote clock offset: 5.091 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 48.693 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 48.395 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 49.420 ms

Loss rate: 0.62%

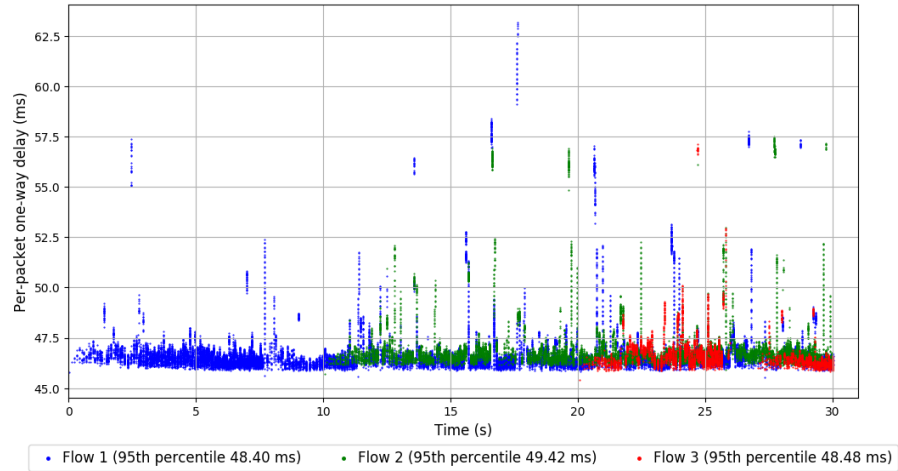
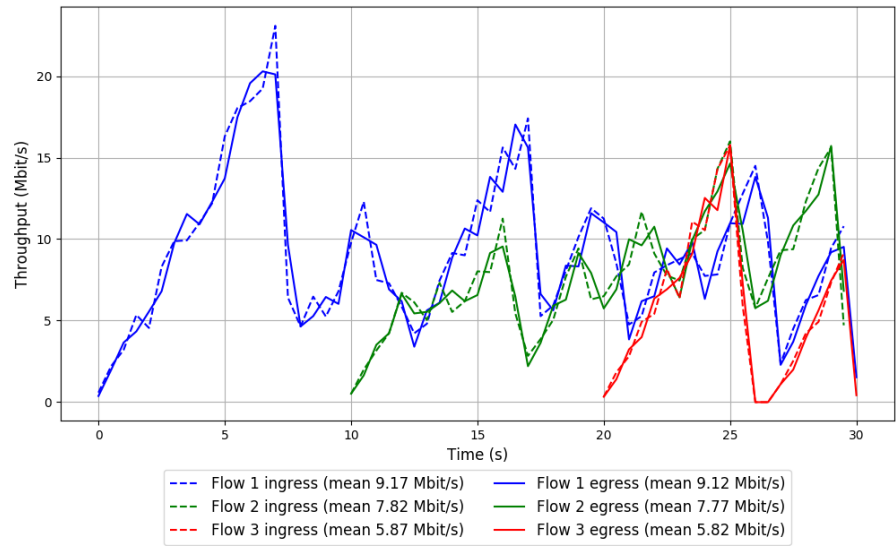
-- Flow 3:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 48.475 ms

Loss rate: 0.96%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-17 04:43:33

End at: 2018-01-17 04:44:03

Local clock offset: 2.308 ms

Remote clock offset: 4.885 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 47.915 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 47.722 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 48.745 ms

Loss rate: 0.51%

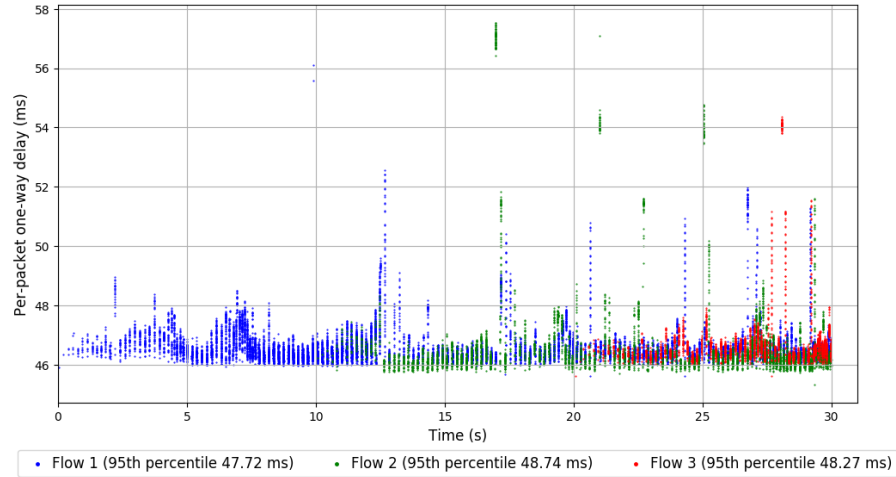
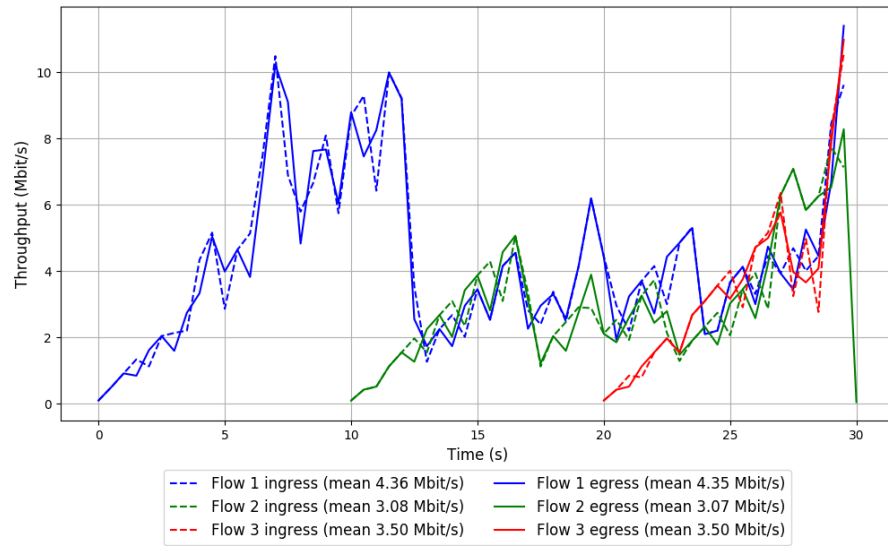
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 48.269 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-17 05:07:47

End at: 2018-01-17 05:08:17

Local clock offset: 1.773 ms

Remote clock offset: 2.948 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 57.120 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 67.070 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 55.941 ms

Loss rate: 0.25%

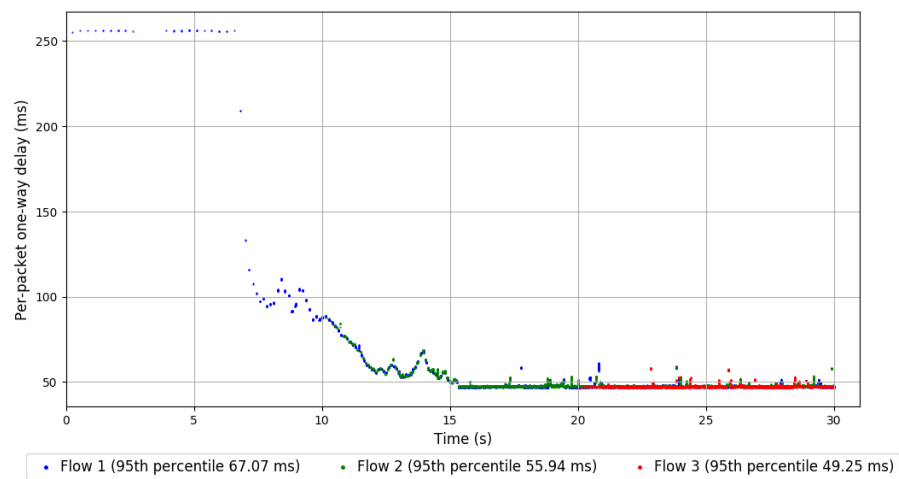
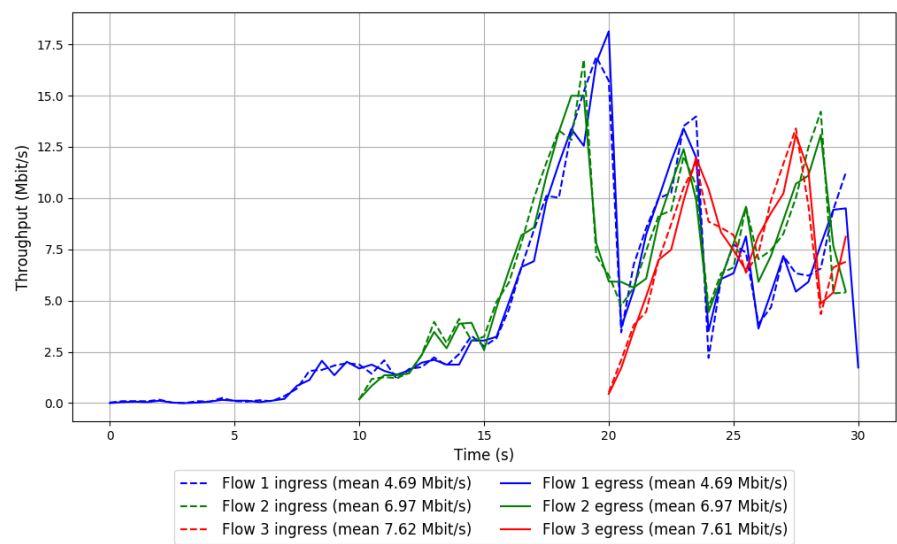
-- Flow 3:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 49.247 ms

Loss rate: 0.12%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-17 05:31:13

End at: 2018-01-17 05:31:43

Local clock offset: 2.493 ms

Remote clock offset: 0.55 ms

Below is generated by plot.py at 2018-01-17 07:12:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.90 Mbit/s

95th percentile per-packet one-way delay: 48.571 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 49.175 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 47.811 ms

Loss rate: 0.22%

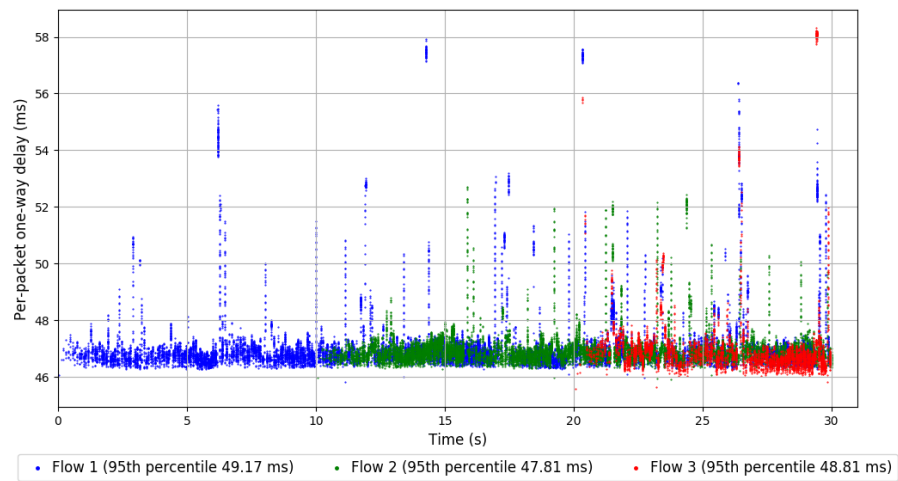
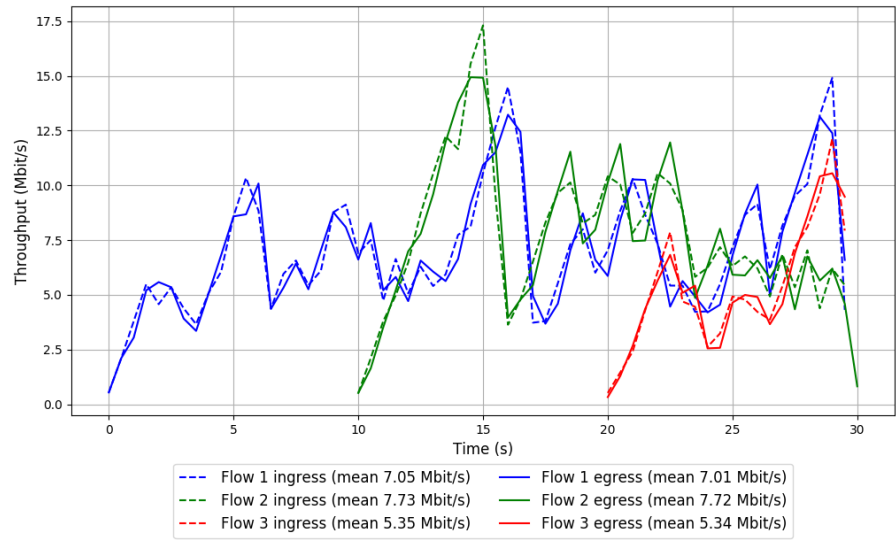
-- Flow 3:

Average throughput: 5.34 Mbit/s

95th percentile per-packet one-way delay: 48.807 ms

Loss rate: 0.22%

Run 7: Report of LEDBAT — Data Link

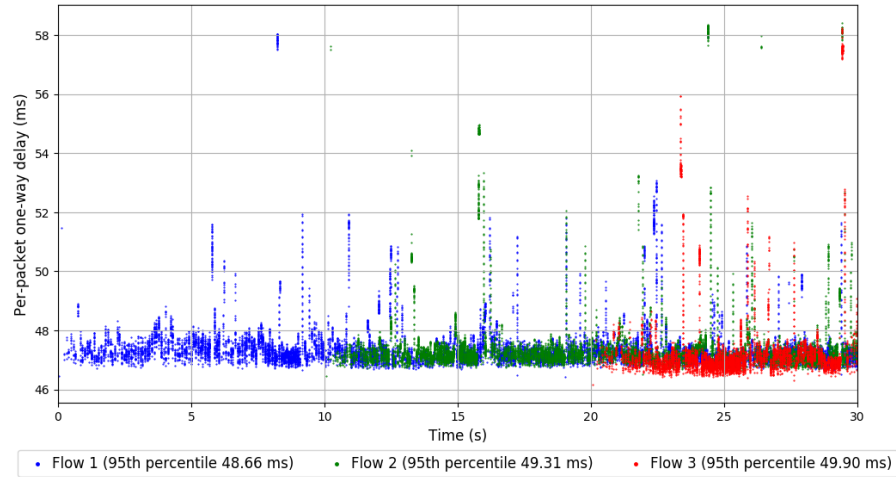
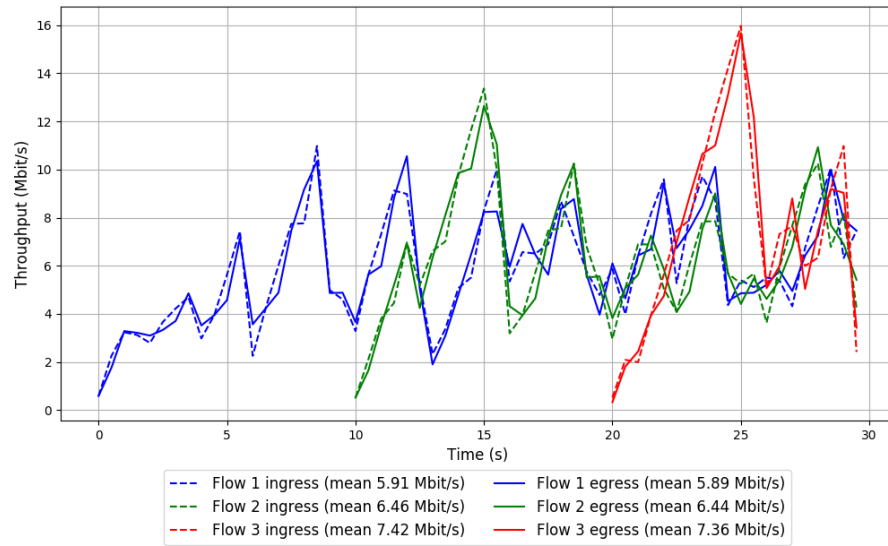


Run 8: Statistics of LEDBAT

Start at: 2018-01-17 05:54:08
End at: 2018-01-17 05:54:38
Local clock offset: 1.857 ms
Remote clock offset: -0.794 ms

Below is generated by plot.py at 2018-01-17 07:12:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 49.027 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 48.658 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 49.308 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 49.895 ms
Loss rate: 0.85%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-17 06:17:05

End at: 2018-01-17 06:17:35

Local clock offset: 1.841 ms

Remote clock offset: 1.558 ms

Below is generated by plot.py at 2018-01-17 07:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 49.190 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 6.32 Mbit/s

95th percentile per-packet one-way delay: 48.764 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 49.779 ms

Loss rate: 0.47%

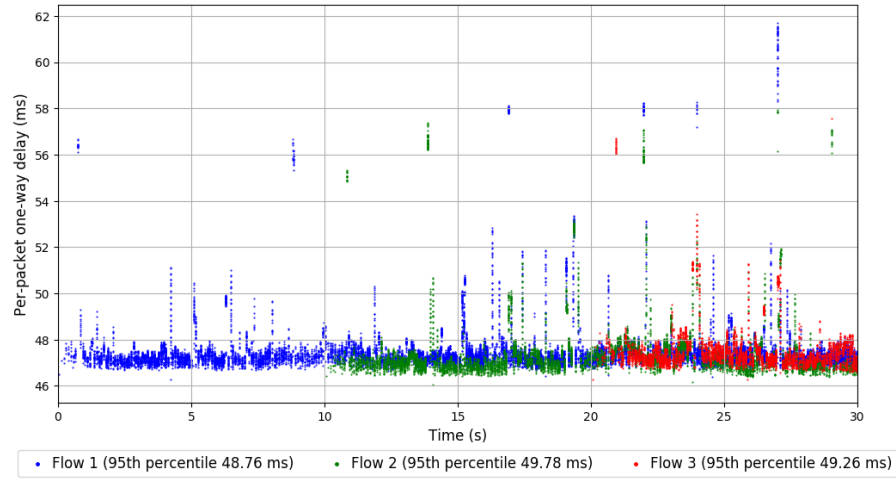
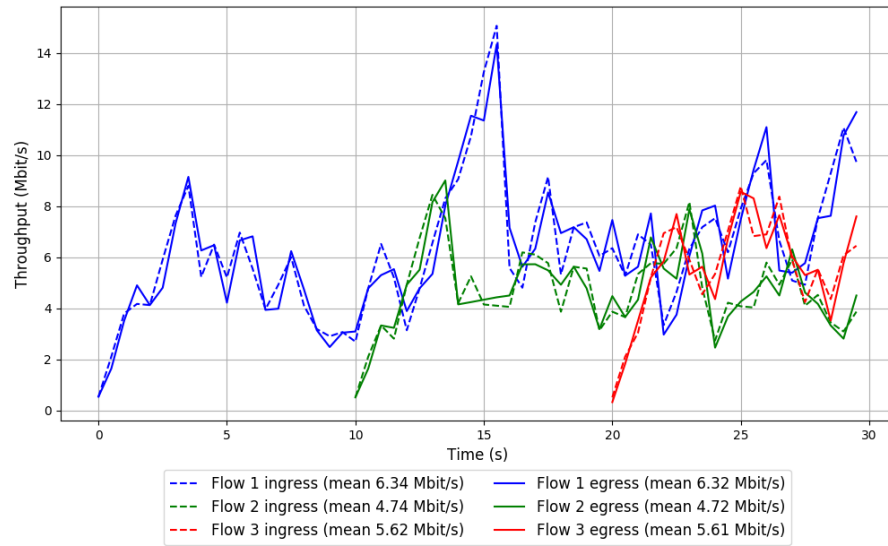
-- Flow 3:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 49.263 ms

Loss rate: 0.19%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-17 06:41:33

End at: 2018-01-17 06:42:03

Local clock offset: 1.796 ms

Remote clock offset: 3.417 ms

Below is generated by plot.py at 2018-01-17 07:12:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 48.644 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 48.974 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 48.270 ms

Loss rate: 0.26%

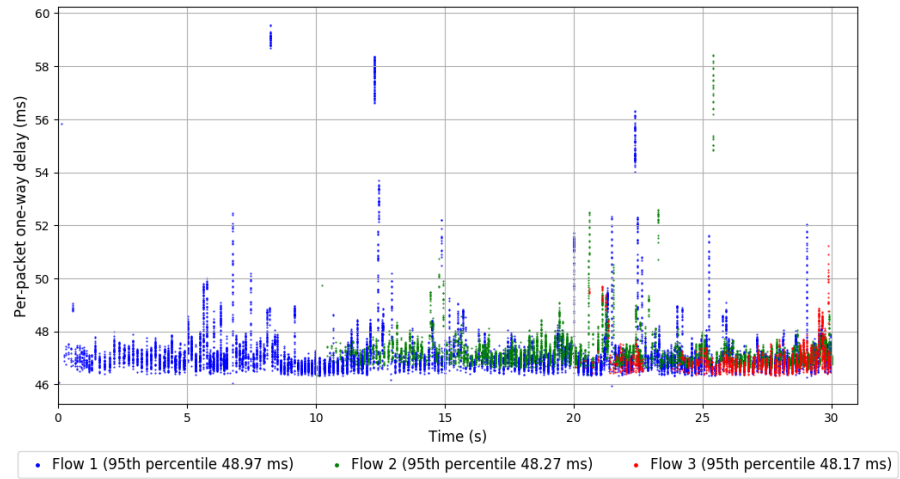
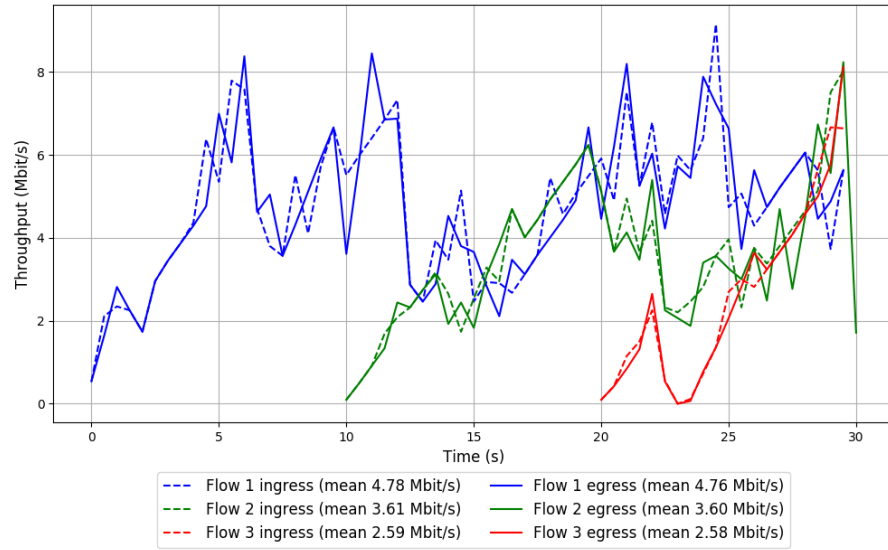
-- Flow 3:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 48.166 ms

Loss rate: 0.37%

Run 10: Report of LEDBAT — Data Link

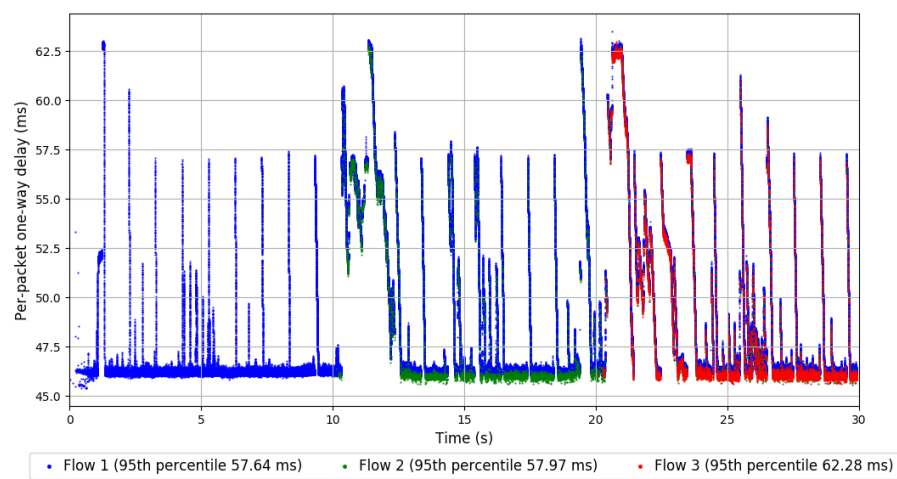
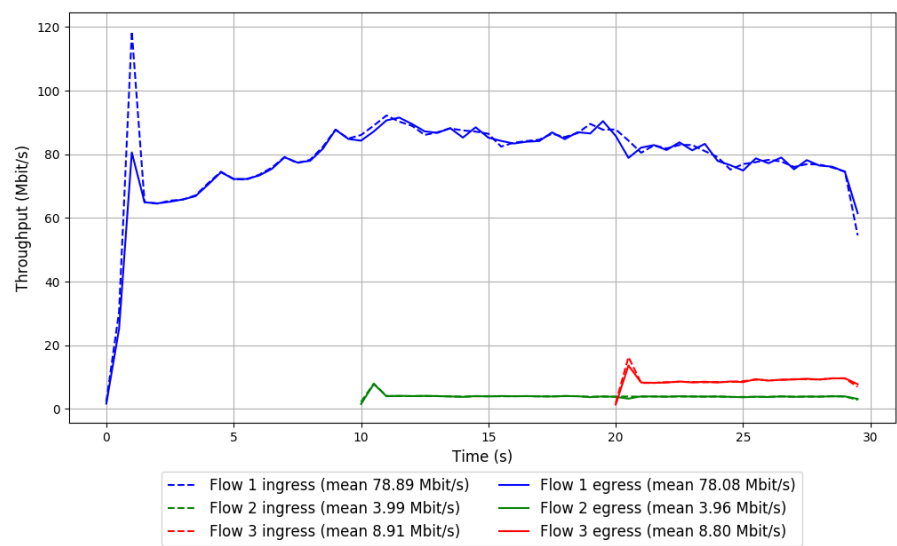


Run 1: Statistics of PCC

Start at: 2018-01-17 02:53:18
End at: 2018-01-17 02:53:48
Local clock offset: -0.272 ms
Remote clock offset: -4.598 ms

Below is generated by plot.py at 2018-01-17 07:13:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.62 Mbit/s
95th percentile per-packet one-way delay: 57.866 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 78.08 Mbit/s
95th percentile per-packet one-way delay: 57.643 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 57.973 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 62.276 ms
Loss rate: 1.28%

Run 1: Report of PCC — Data Link

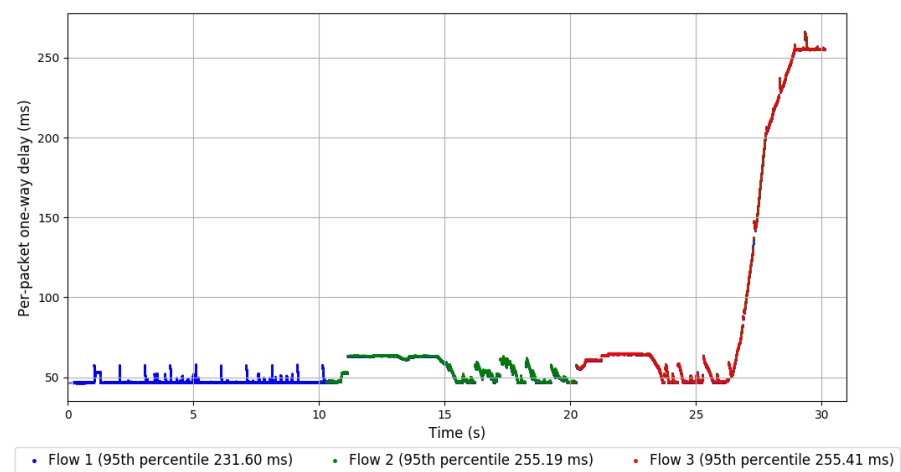
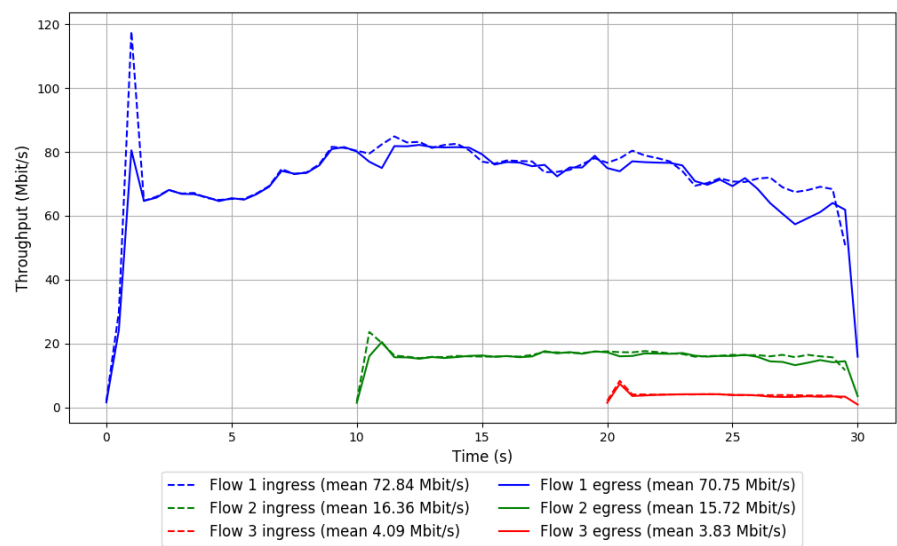


Run 2: Statistics of PCC

Start at: 2018-01-17 03:16:10
End at: 2018-01-17 03:16:40
Local clock offset: -0.58 ms
Remote clock offset: -1.811 ms

Below is generated by plot.py at 2018-01-17 07:13:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.52 Mbit/s
95th percentile per-packet one-way delay: 237.751 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 231.598 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 15.72 Mbit/s
95th percentile per-packet one-way delay: 255.191 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 255.410 ms
Loss rate: 4.29%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-17 03:39:17

End at: 2018-01-17 03:39:47

Local clock offset: 0.929 ms

Remote clock offset: 1.018 ms

Below is generated by plot.py at 2018-01-17 07:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.08 Mbit/s

95th percentile per-packet one-way delay: 60.932 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 84.76 Mbit/s

95th percentile per-packet one-way delay: 60.914 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 61.253 ms

Loss rate: 0.80%

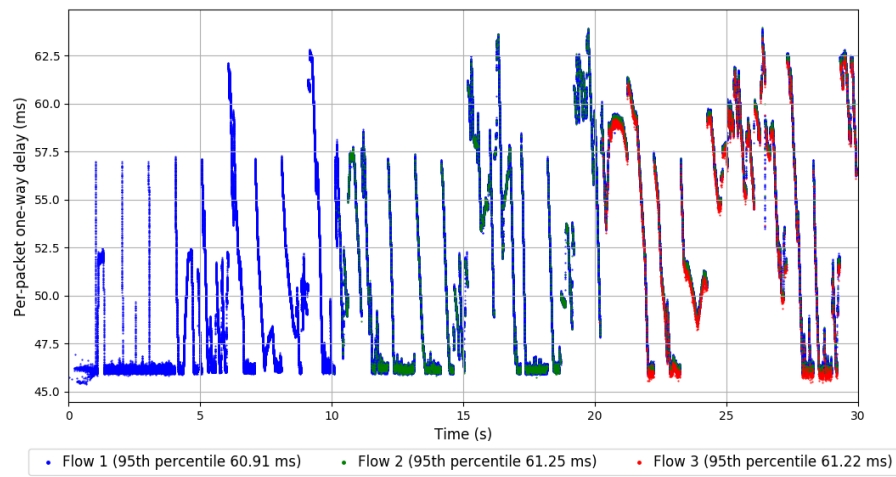
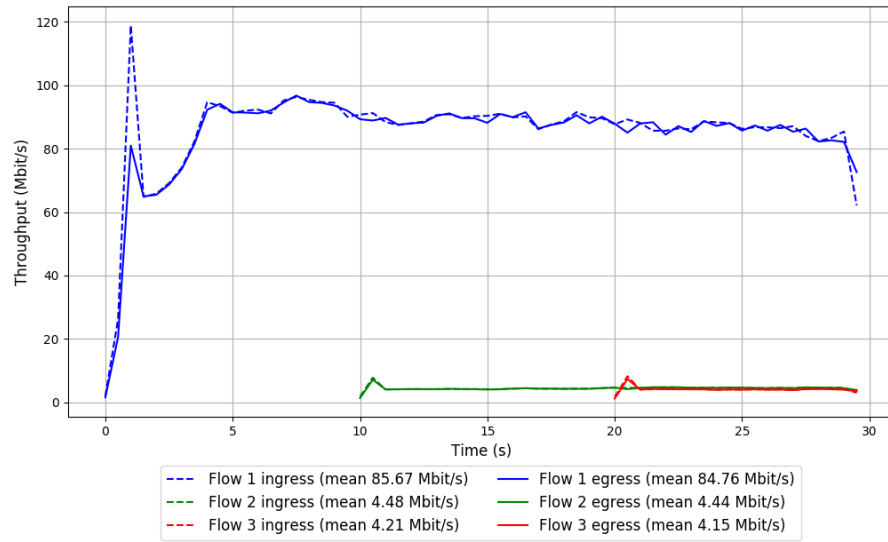
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 61.224 ms

Loss rate: 1.41%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-17 04:02:24

End at: 2018-01-17 04:02:54

Local clock offset: 1.383 ms

Remote clock offset: 3.811 ms

Below is generated by plot.py at 2018-01-17 07:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.80 Mbit/s

95th percentile per-packet one-way delay: 54.476 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 72.18 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 55.355 ms

Loss rate: 0.31%

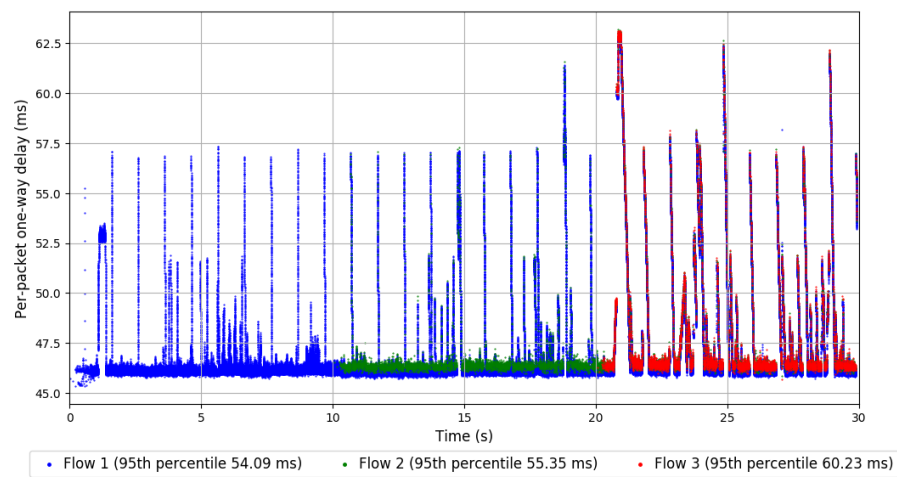
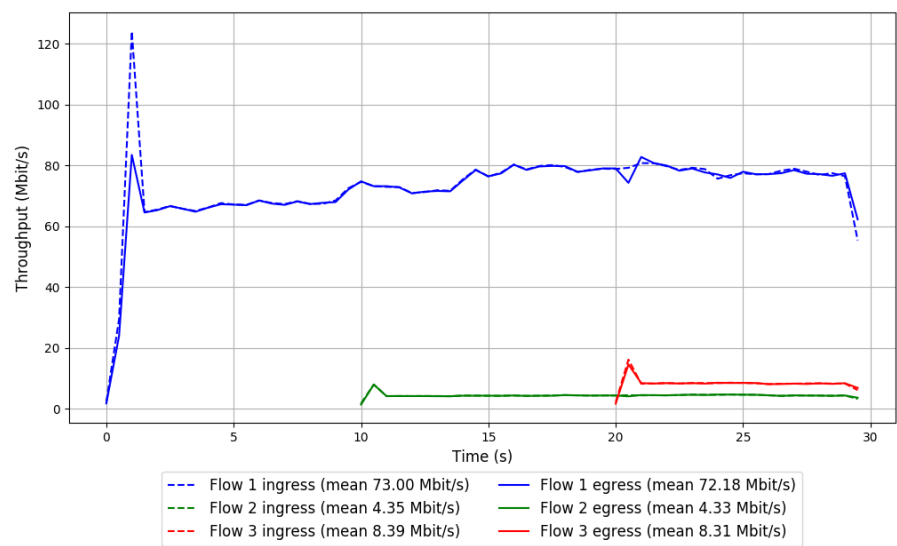
-- Flow 3:

Average throughput: 8.31 Mbit/s

95th percentile per-packet one-way delay: 60.227 ms

Loss rate: 0.91%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-17 04:25:19

End at: 2018-01-17 04:25:49

Local clock offset: 1.56 ms

Remote clock offset: 6.119 ms

Below is generated by plot.py at 2018-01-17 07:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.97 Mbit/s

95th percentile per-packet one-way delay: 148.010 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 148.356 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 9.41 Mbit/s

95th percentile per-packet one-way delay: 64.798 ms

Loss rate: 1.14%

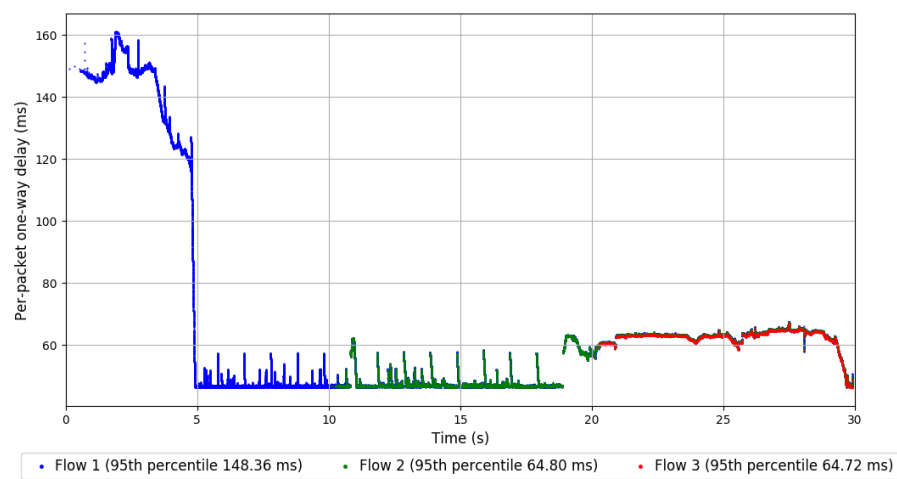
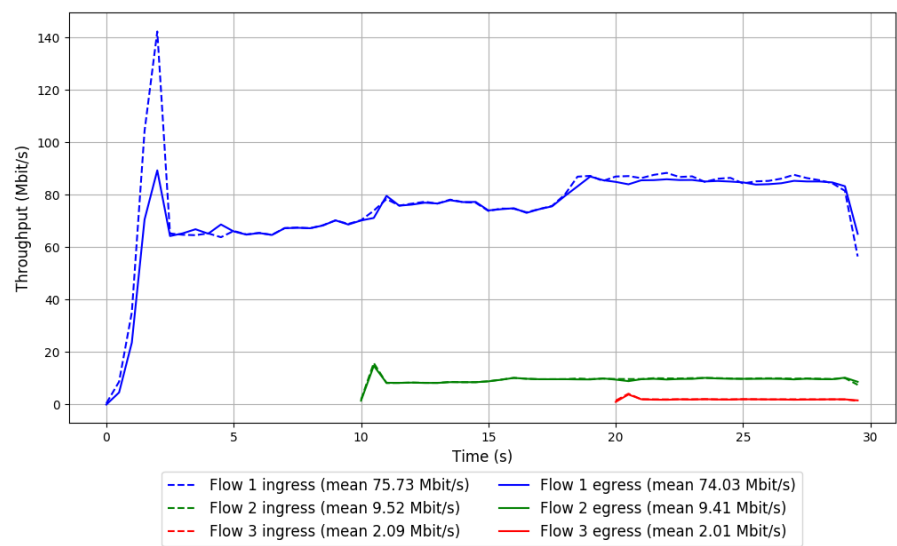
-- Flow 3:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 64.718 ms

Loss rate: 3.89%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-17 04:54:47

End at: 2018-01-17 04:55:17

Local clock offset: 2.159 ms

Remote clock offset: 4.228 ms

Below is generated by plot.py at 2018-01-17 07:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.55 Mbit/s

95th percentile per-packet one-way delay: 62.773 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 79.85 Mbit/s

95th percentile per-packet one-way delay: 62.744 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 62.815 ms

Loss rate: 1.60%

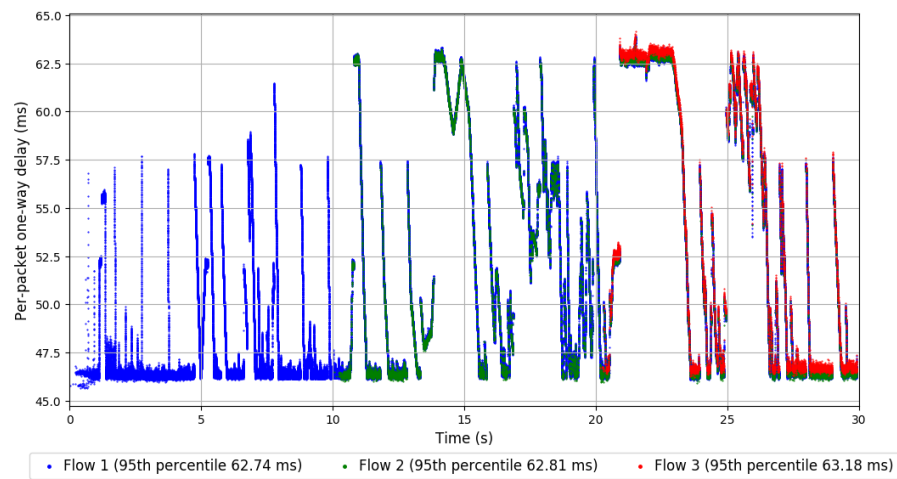
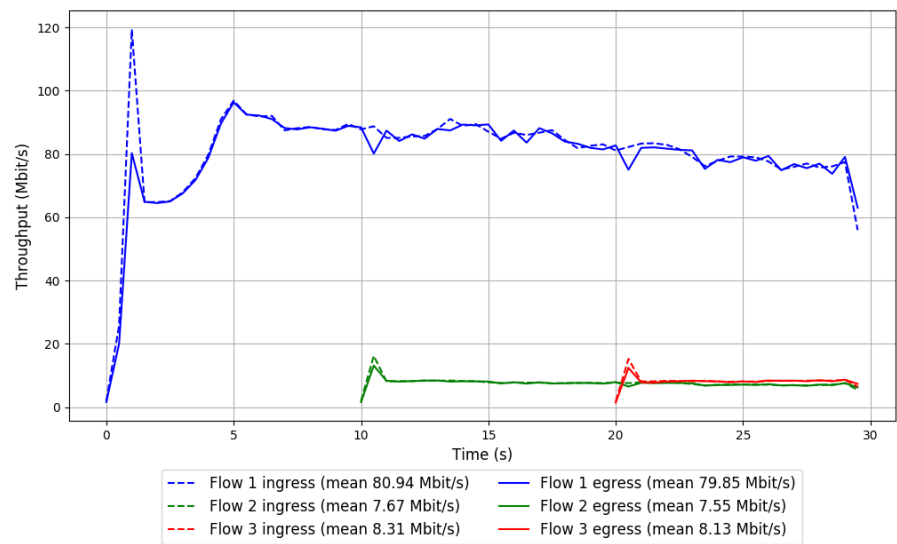
-- Flow 3:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 63.182 ms

Loss rate: 2.16%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-17 05:18:19

End at: 2018-01-17 05:18:49

Local clock offset: 2.472 ms

Remote clock offset: 1.554 ms

Below is generated by plot.py at 2018-01-17 07:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 63.590 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 1.27%

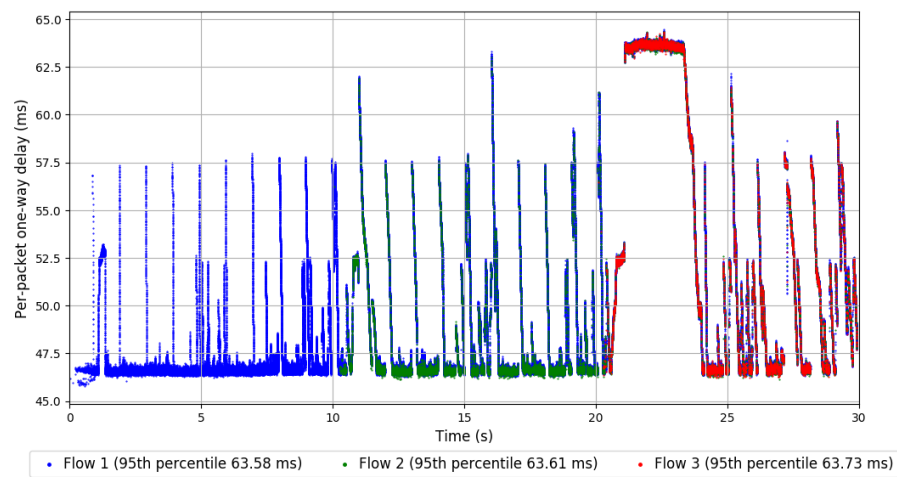
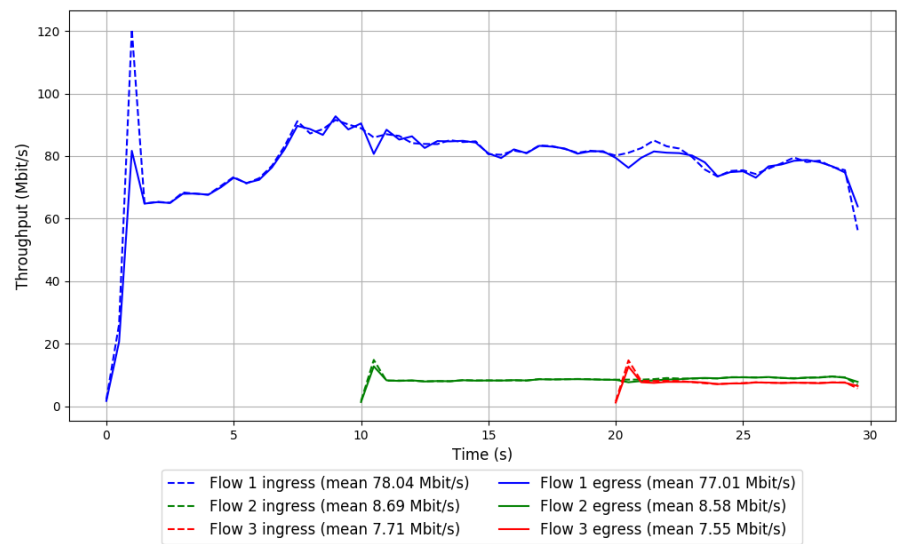
-- Flow 3:

Average throughput: 7.55 Mbit/s

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

Loss rate: 2.20%

Run 7: Report of PCC — Data Link

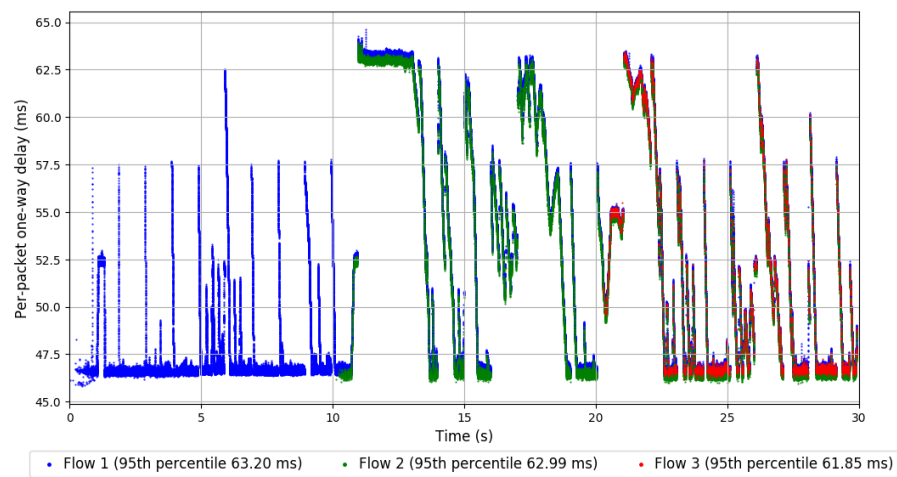
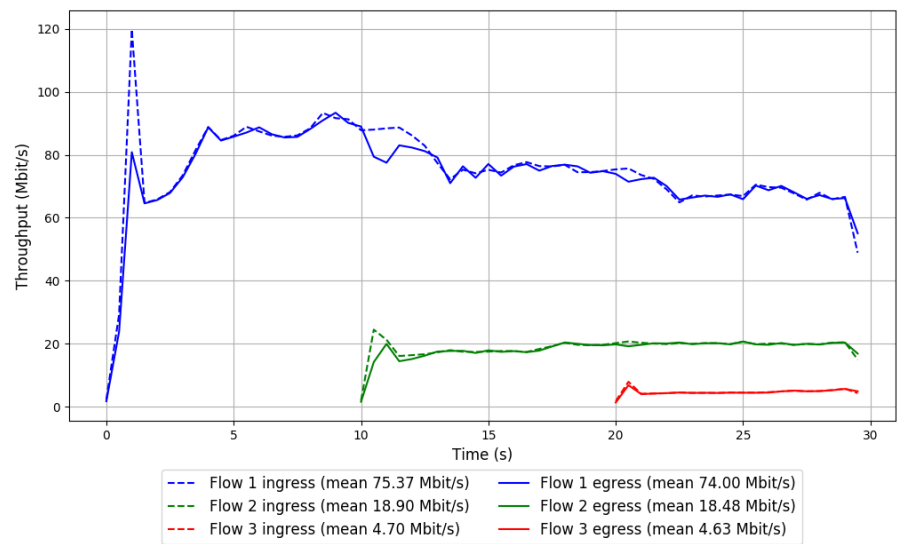


Run 8: Statistics of PCC

Start at: 2018-01-17 05:41:11
End at: 2018-01-17 05:41:41
Local clock offset: 2.354 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-01-17 07:14:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 63.162 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 74.00 Mbit/s
95th percentile per-packet one-way delay: 63.196 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 18.48 Mbit/s
95th percentile per-packet one-way delay: 62.986 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 61.846 ms
Loss rate: 1.47%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-17 06:04:09

End at: 2018-01-17 06:04:39

Local clock offset: 2.319 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-01-17 07:15:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 61.559 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 79.39 Mbit/s

95th percentile per-packet one-way delay: 61.538 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 9.44 Mbit/s

95th percentile per-packet one-way delay: 61.851 ms

Loss rate: 1.43%

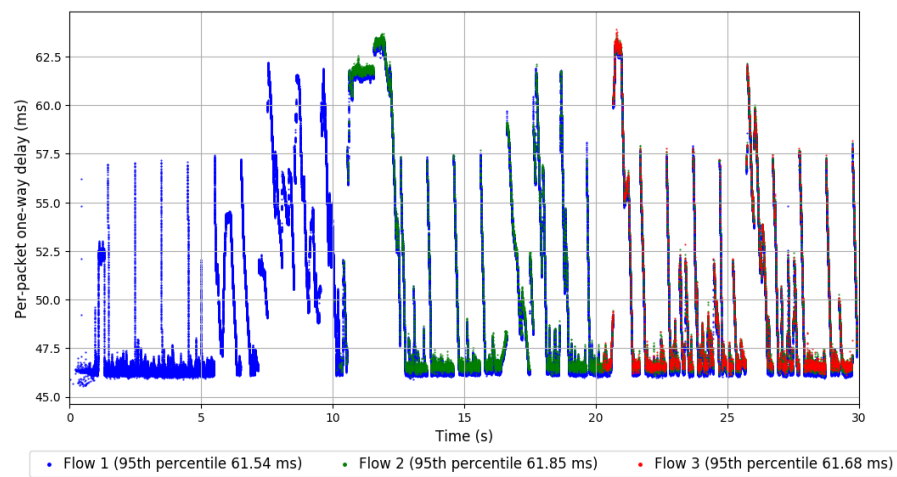
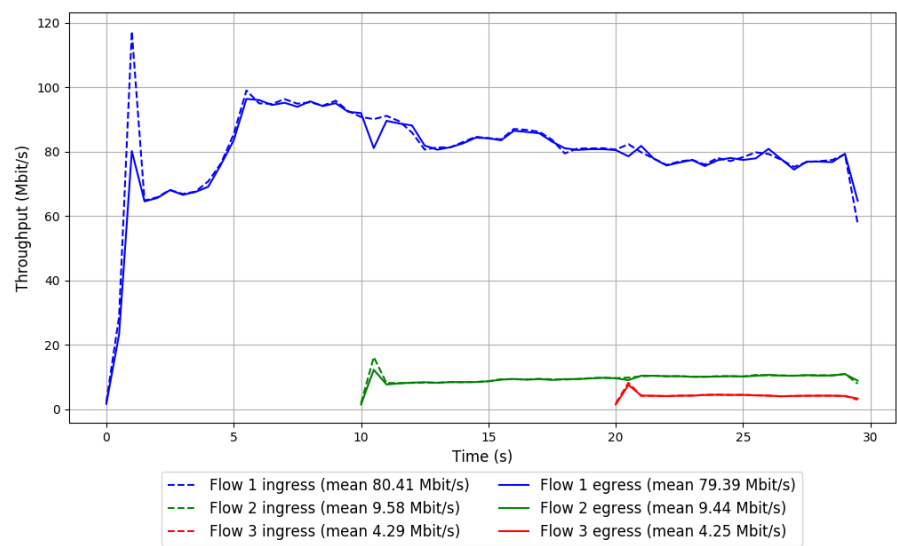
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 61.683 ms

Loss rate: 0.80%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-17 06:27:08

End at: 2018-01-17 06:27:38

Local clock offset: 1.726 ms

Remote clock offset: 2.38 ms

Below is generated by plot.py at 2018-01-17 07:15:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 47.753 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 47.834 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 47.546 ms

Loss rate: 0.05%

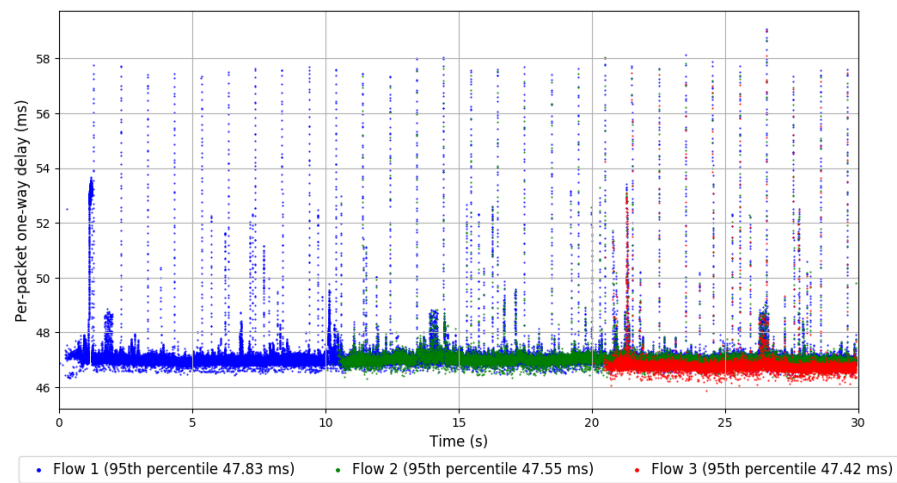
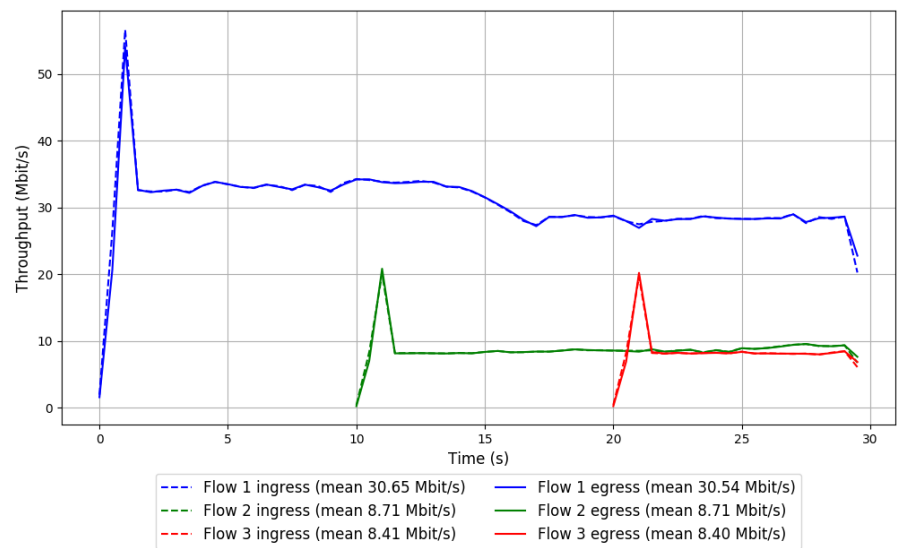
-- Flow 3:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 47.422 ms

Loss rate: 0.10%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-01-17 03:01:15

End at: 2018-01-17 03:01:45

Local clock offset: -3.032 ms

Remote clock offset: -3.93 ms

Below is generated by plot.py at 2018-01-17 07:15:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 51.756 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 48.323 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.76 Mbit/s

95th percentile per-packet one-way delay: 49.922 ms

Loss rate: 0.38%

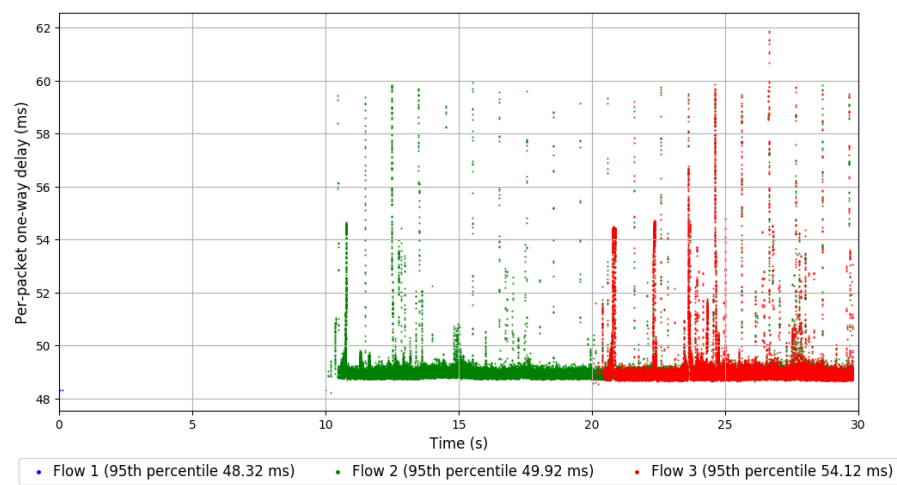
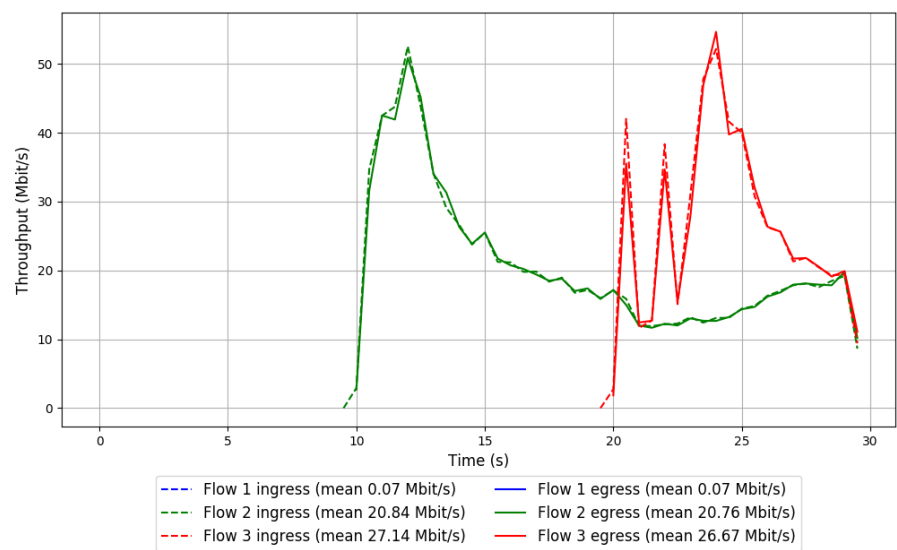
-- Flow 3:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 54.123 ms

Loss rate: 1.70%

Run 1: Report of QUIC Cubic — Data Link

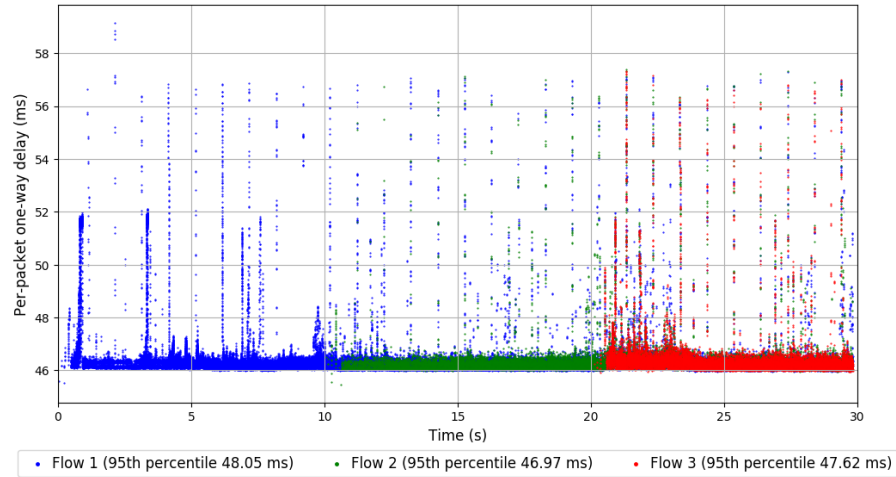
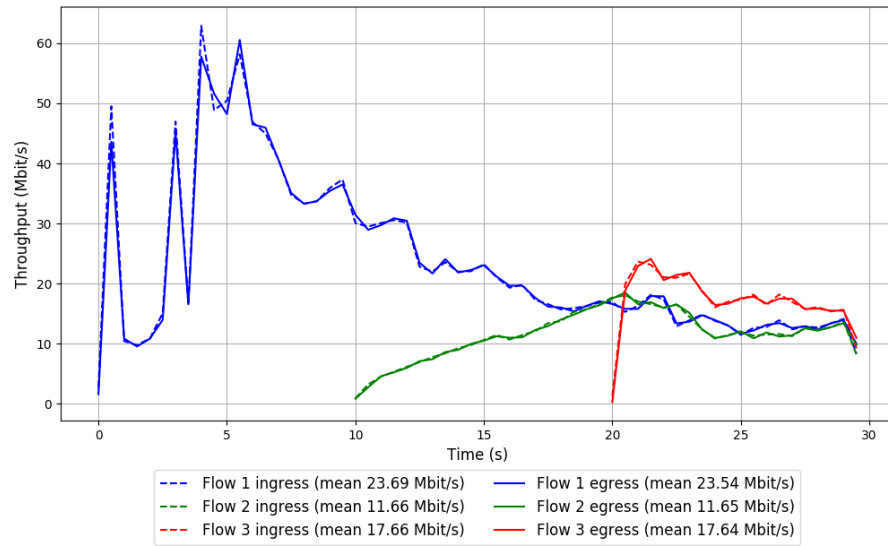


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-17 03:24:07
End at: 2018-01-17 03:24:37
Local clock offset: 0.333 ms
Remote clock offset: -0.859 ms

Below is generated by plot.py at 2018-01-17 07:15:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 47.689 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 48.045 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 46.971 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 17.64 Mbit/s
95th percentile per-packet one-way delay: 47.624 ms
Loss rate: 0.12%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-17 03:46:51

End at: 2018-01-17 03:47:21

Local clock offset: 0.815 ms

Remote clock offset: 2.136 ms

Below is generated by plot.py at 2018-01-17 07:15:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 51.287 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 51.668 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 49.676 ms

Loss rate: 1.07%

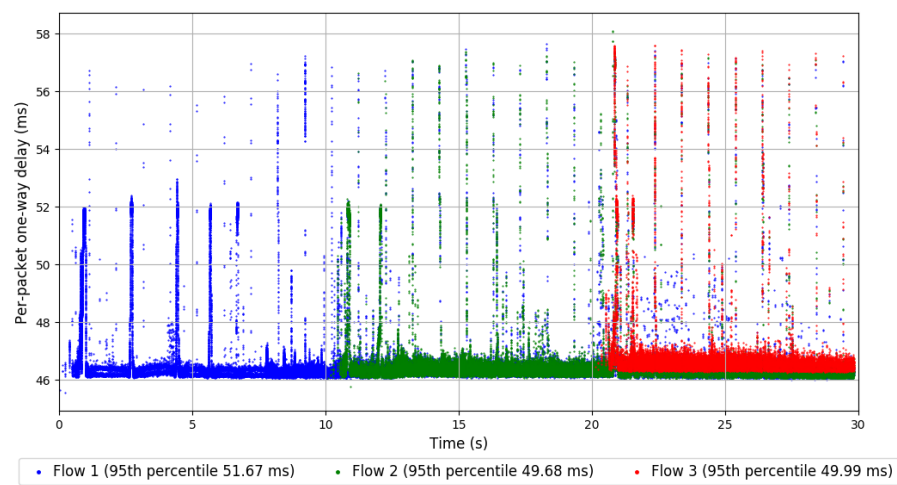
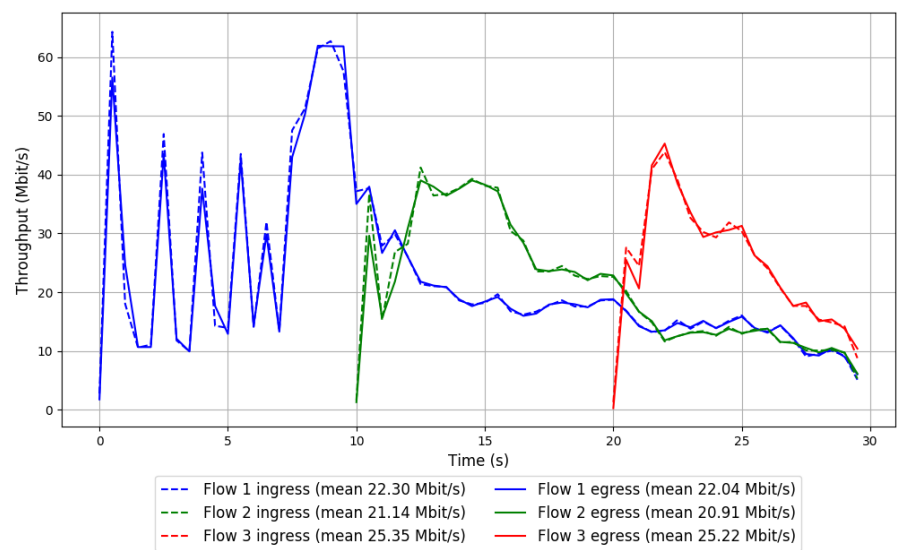
-- Flow 3:

Average throughput: 25.22 Mbit/s

95th percentile per-packet one-way delay: 49.992 ms

Loss rate: 0.49%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-17 04:10:08

End at: 2018-01-17 04:10:38

Local clock offset: 1.114 ms

Remote clock offset: 4.55 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.62 Mbit/s

95th percentile per-packet one-way delay: 49.811 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 25.19 Mbit/s

95th percentile per-packet one-way delay: 48.769 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 29.77 Mbit/s

95th percentile per-packet one-way delay: 50.889 ms

Loss rate: 0.76%

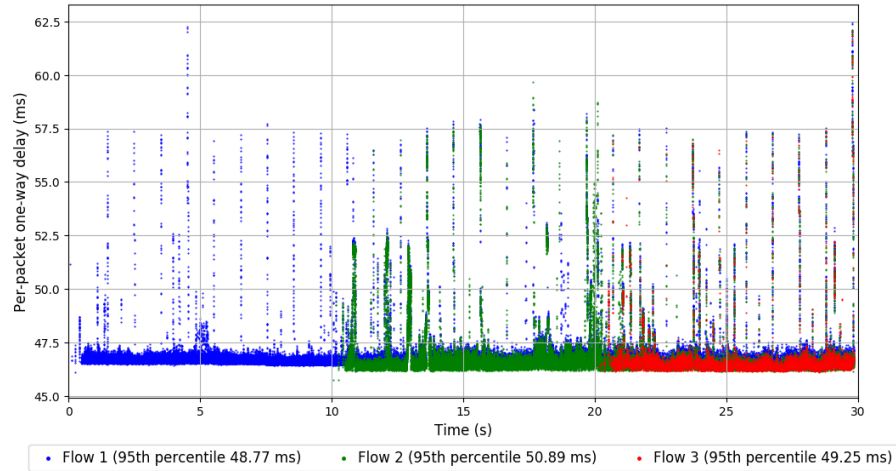
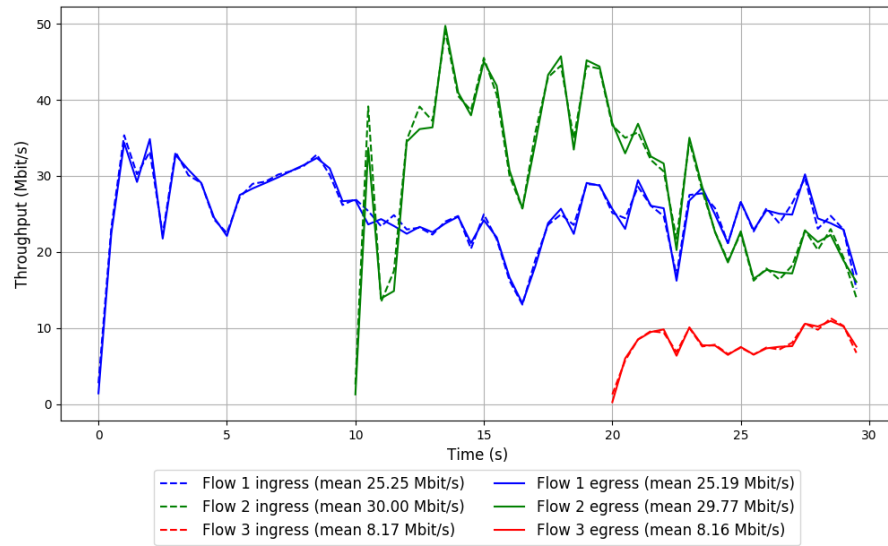
-- Flow 3:

Average throughput: 8.16 Mbit/s

95th percentile per-packet one-way delay: 49.247 ms

Loss rate: 0.16%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-17 04:33:21

End at: 2018-01-17 04:33:51

Local clock offset: 1.796 ms

Remote clock offset: 5.596 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.46 Mbit/s

95th percentile per-packet one-way delay: 51.762 ms

Loss rate: 2.30%

-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 48.056 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 51.735 ms

Loss rate: 2.38%

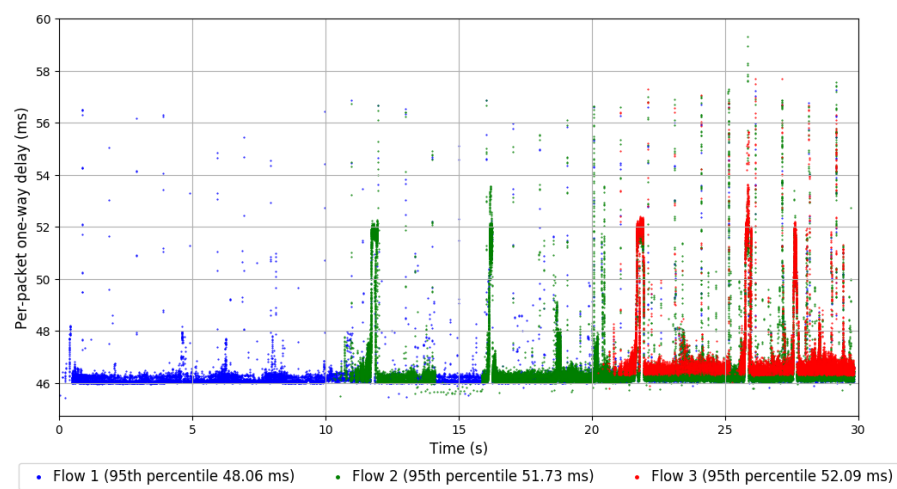
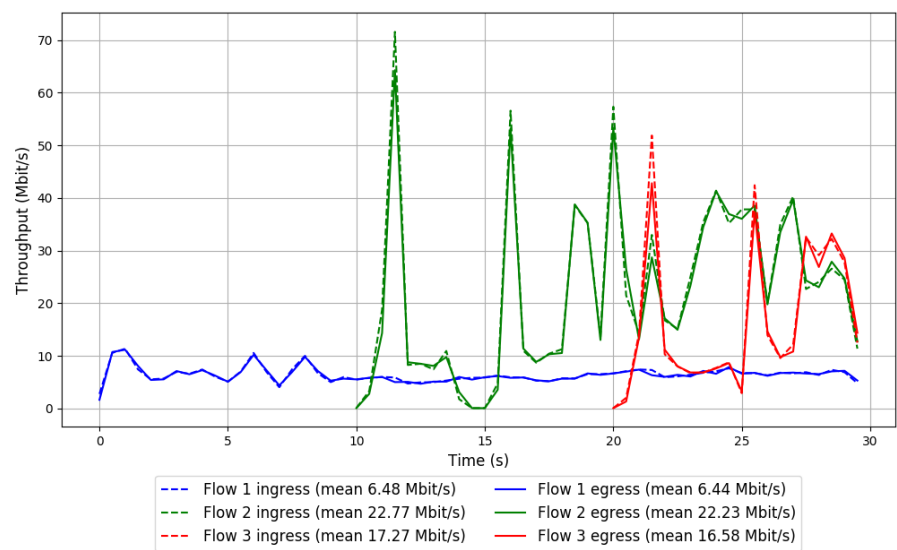
-- Flow 3:

Average throughput: 16.58 Mbit/s

95th percentile per-packet one-way delay: 52.094 ms

Loss rate: 4.03%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-17 05:02:35

End at: 2018-01-17 05:03:05

Local clock offset: 2.542 ms

Remote clock offset: 3.664 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 48.209 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 19.43 Mbit/s

95th percentile per-packet one-way delay: 49.284 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 46.699 ms

Loss rate: 0.11%

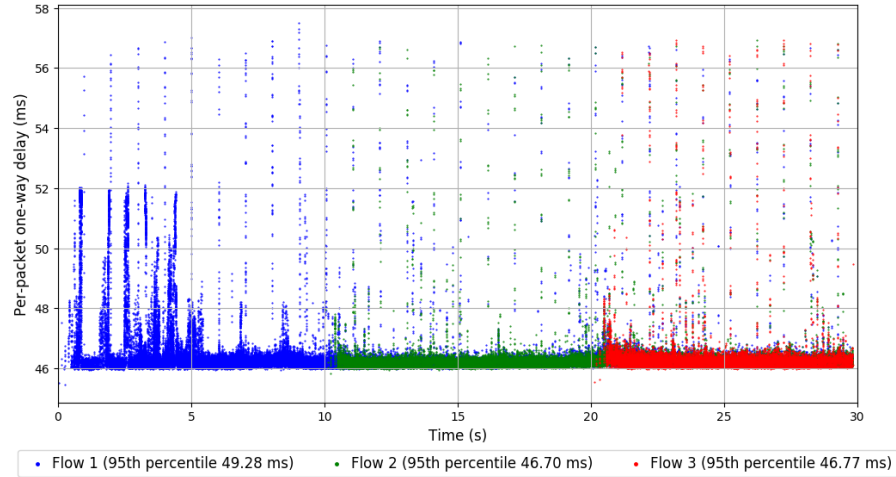
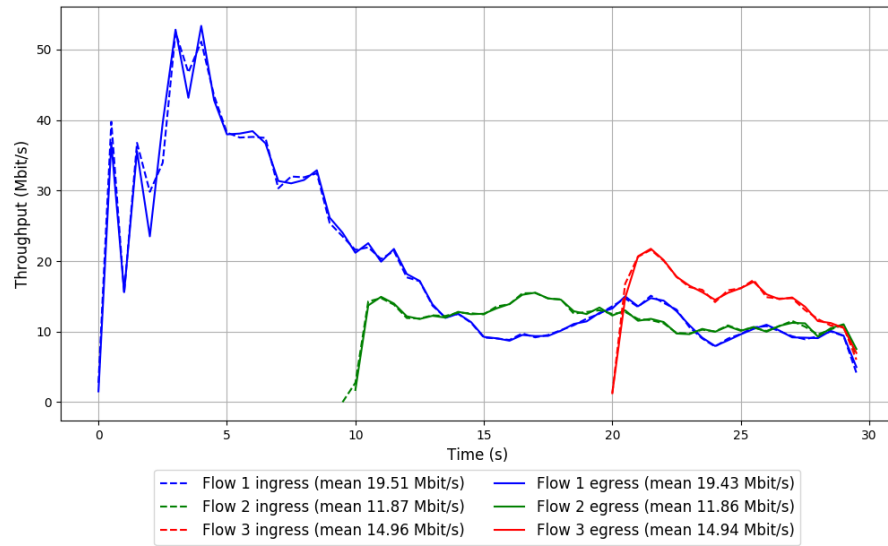
-- Flow 3:

Average throughput: 14.94 Mbit/s

95th percentile per-packet one-way delay: 46.773 ms

Loss rate: 0.11%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-17 05:26:16

End at: 2018-01-17 05:26:46

Local clock offset: -0.167 ms

Remote clock offset: 0.867 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 51.171 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 50.035 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 19.55 Mbit/s

95th percentile per-packet one-way delay: 51.506 ms

Loss rate: 0.32%

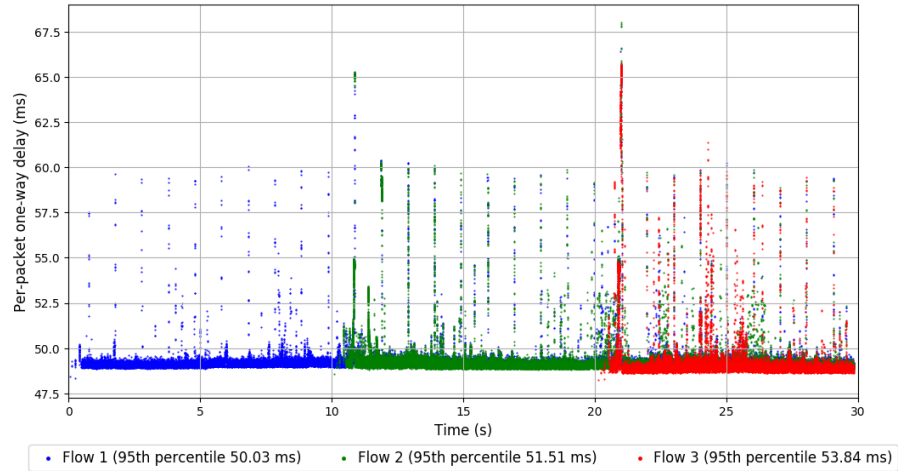
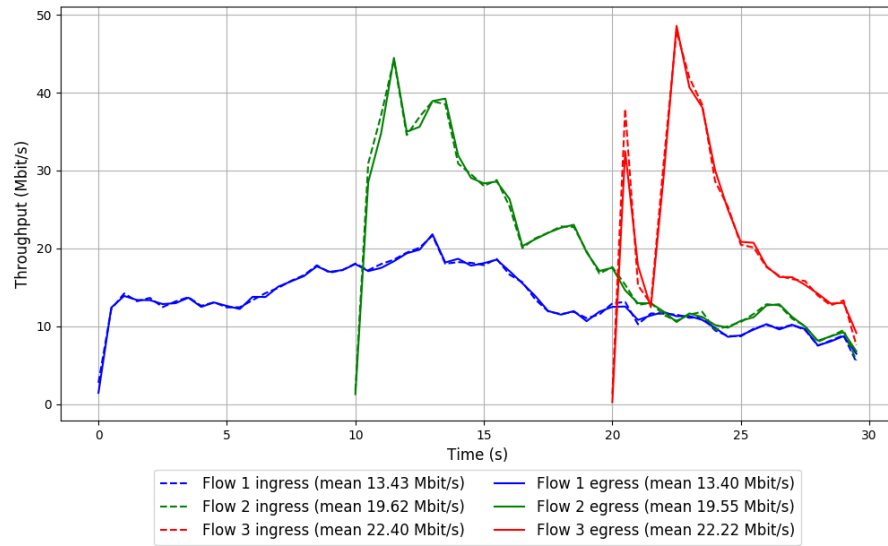
-- Flow 3:

Average throughput: 22.22 Mbit/s

95th percentile per-packet one-way delay: 53.835 ms

Loss rate: 0.82%

Run 7: Report of QUIC Cubic — Data Link

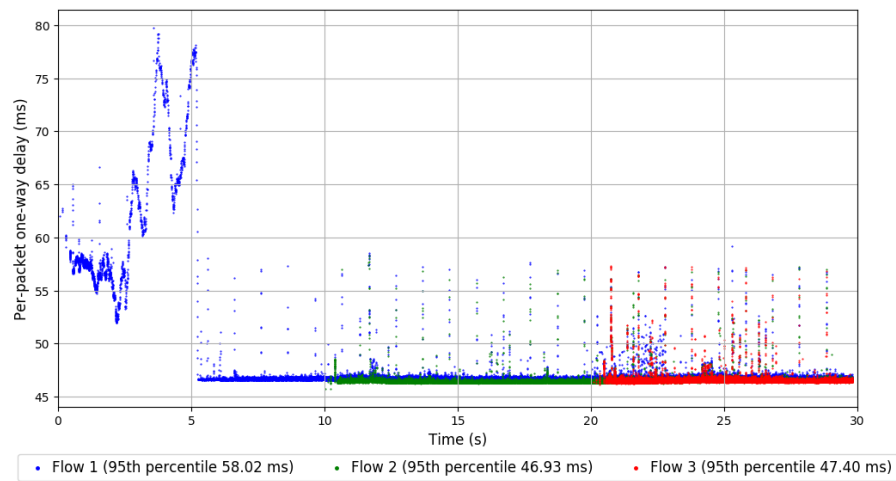
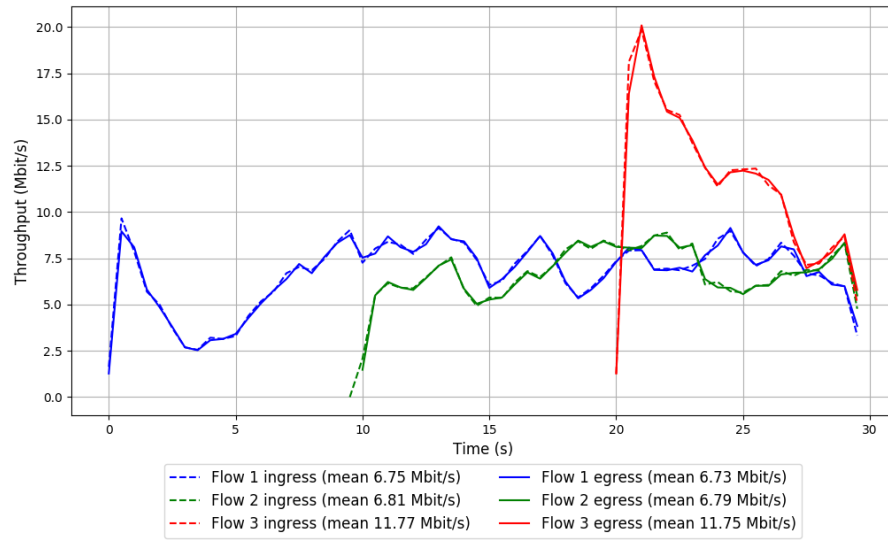


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-17 05:48:59
End at: 2018-01-17 05:49:29
Local clock offset: 2.091 ms
Remote clock offset: -0.655 ms

Below is generated by plot.py at 2018-01-17 07:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 55.242 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 58.022 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 46.928 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 47.397 ms
Loss rate: 0.20%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-17 06:11:54

End at: 2018-01-17 06:12:24

Local clock offset: 2.639 ms

Remote clock offset: 1.06 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.82 Mbit/s

95th percentile per-packet one-way delay: 128.522 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 5.04 Mbit/s

95th percentile per-packet one-way delay: 147.665 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 109.454 ms

Loss rate: 0.21%

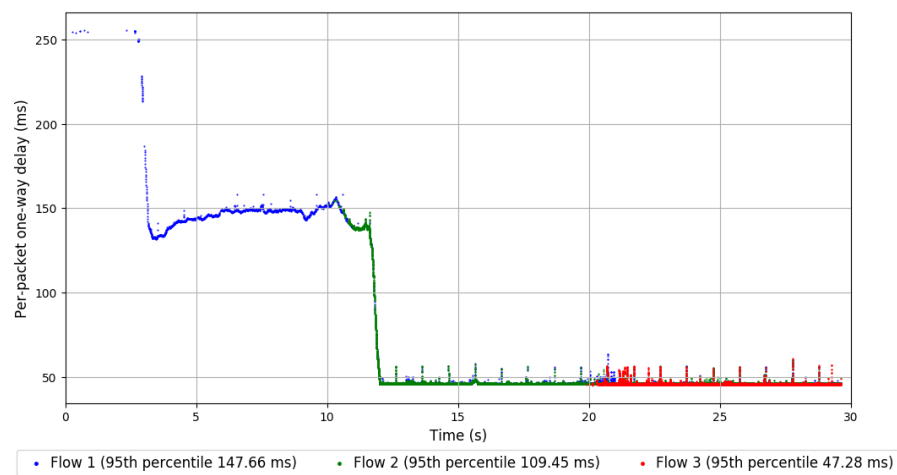
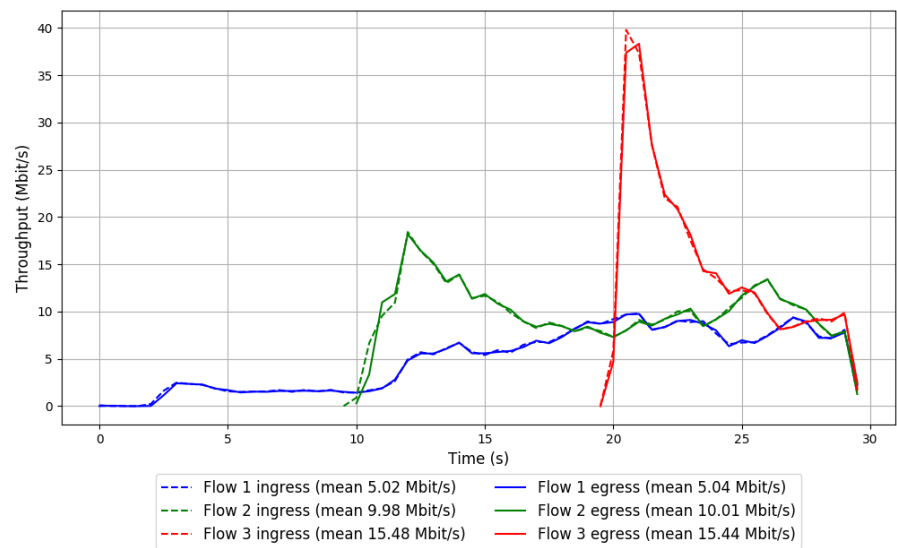
-- Flow 3:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 47.278 ms

Loss rate: 0.20%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-17 06:36:18

End at: 2018-01-17 06:36:48

Local clock offset: 2.426 ms

Remote clock offset: 2.958 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.30 Mbit/s

95th percentile per-packet one-way delay: 46.639 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 46.710 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 46.520 ms

Loss rate: 0.17%

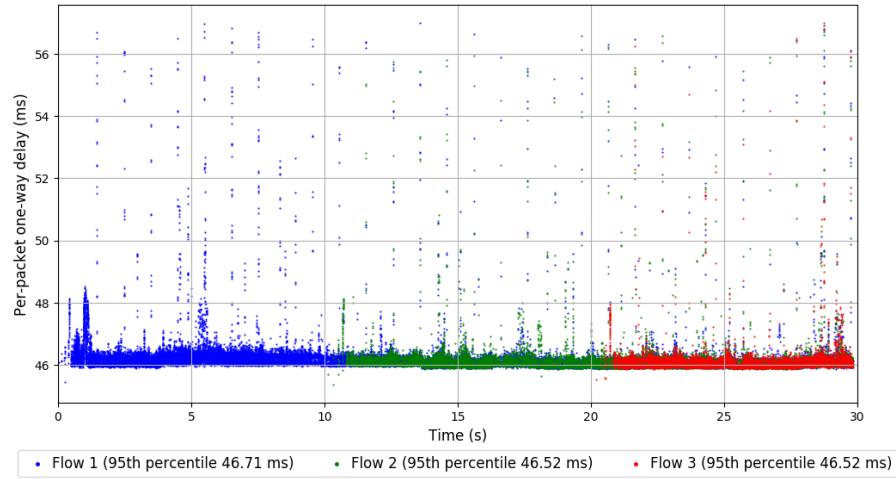
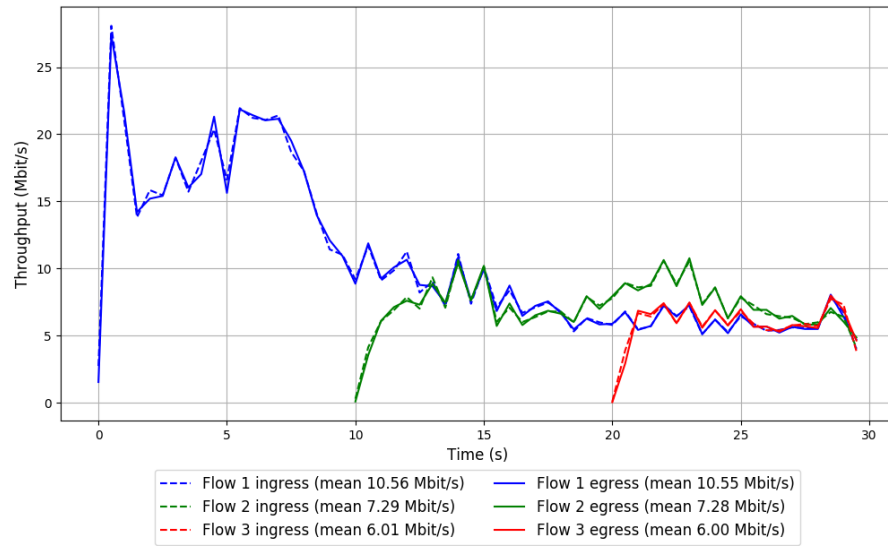
-- Flow 3:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 46.519 ms

Loss rate: 0.21%

Run 10: Report of QUIC Cubic — Data Link

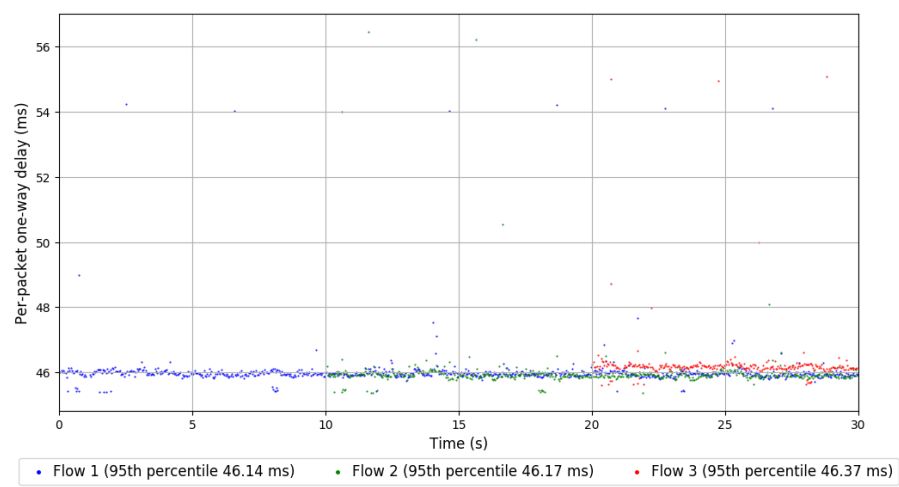
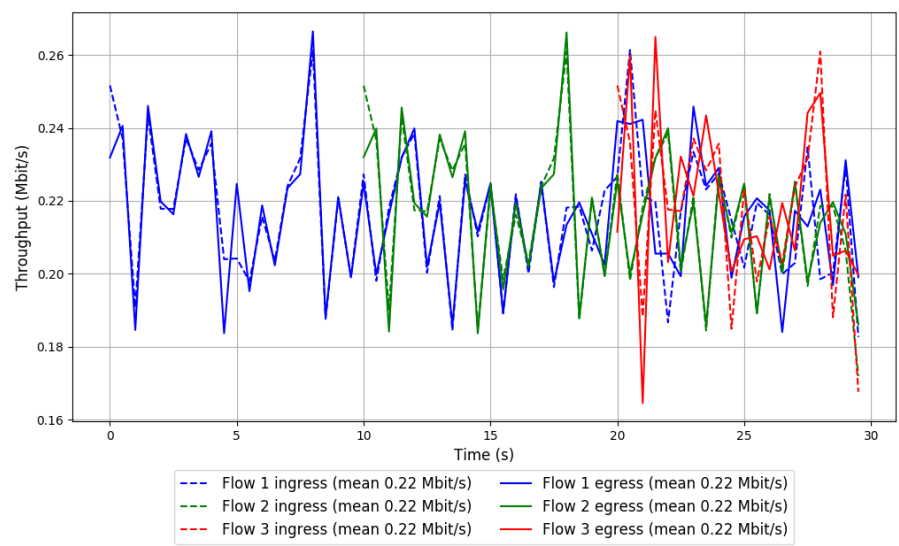


```
Run 1: Statistics of SReAM

Start at: 2018-01-17 02:48:11
End at: 2018-01-17 02:48:41
Local clock offset: -0.51 ms
Remote clock offset: -4.746 ms

# Below is generated by plot.py at 2018-01-17 07:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 46.266 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.139 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.166 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.366 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

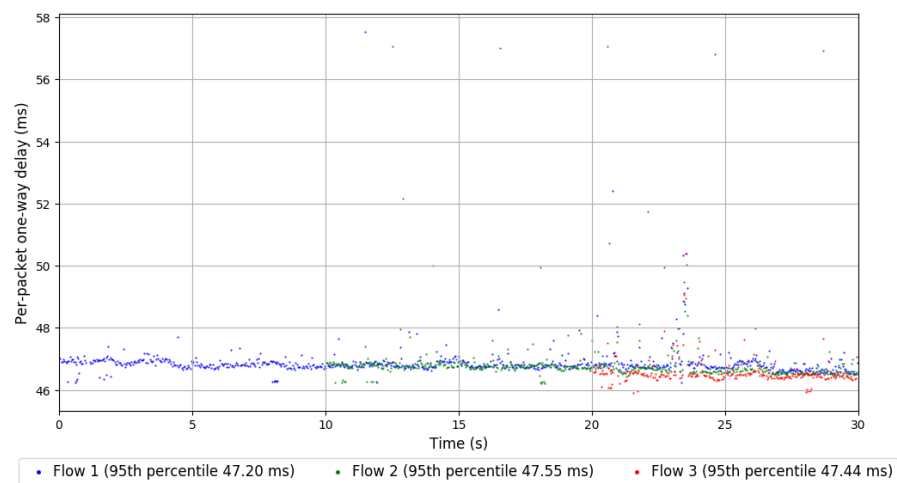
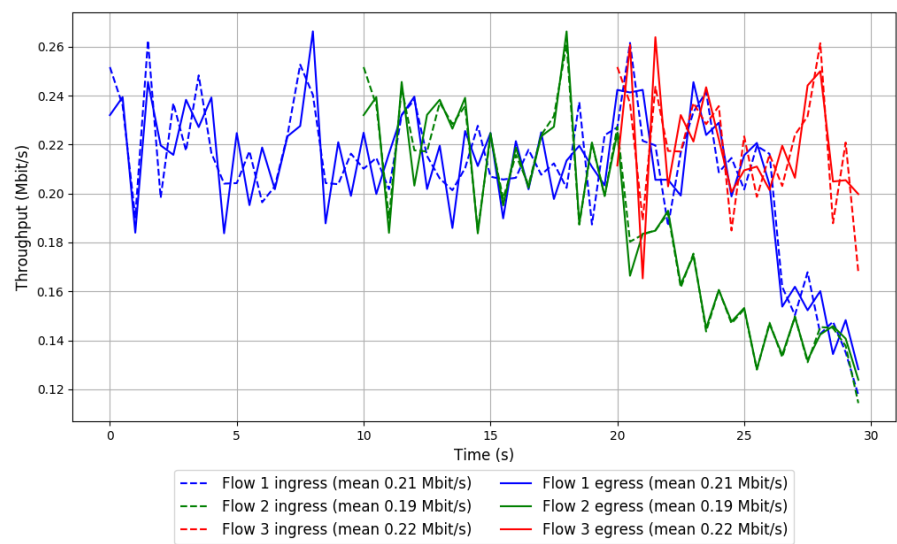


Run 2: Statistics of SReAM

Start at: 2018-01-17 03:11:09
End at: 2018-01-17 03:11:39
Local clock offset: -0.631 ms
Remote clock offset: -2.527 ms

Below is generated by plot.py at 2018-01-17 07:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 47.318 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 47.201 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 47.549 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.437 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-17 03:34:08

End at: 2018-01-17 03:34:38

Local clock offset: 0.701 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 46.171 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 46.290 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.059 ms

Loss rate: 0.00%

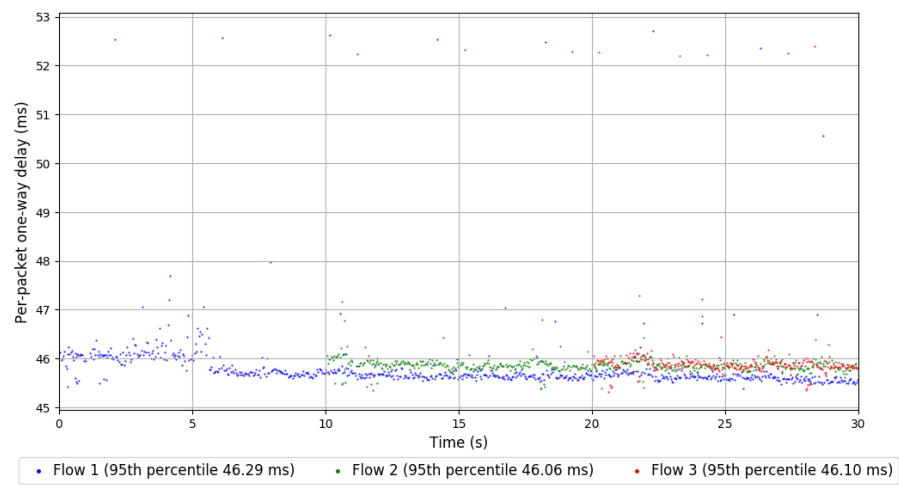
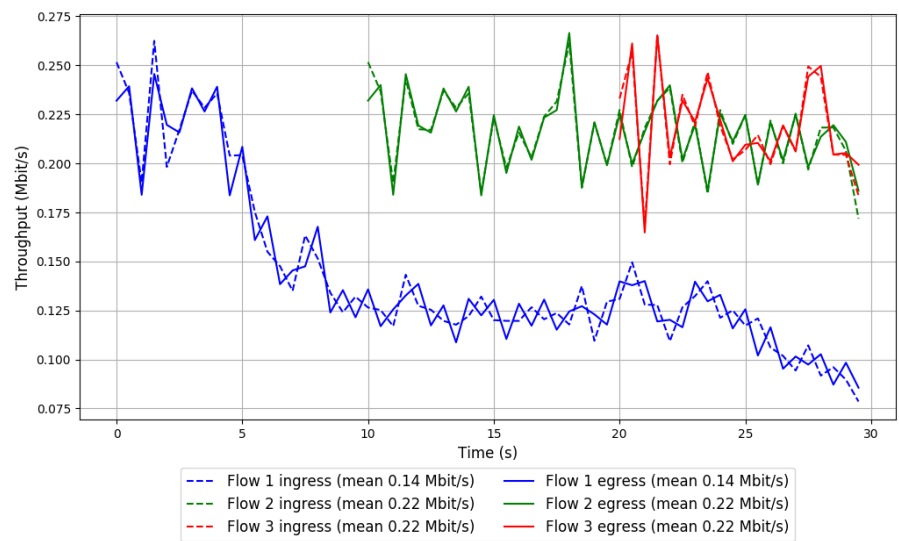
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.101 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-17 03:57:17

End at: 2018-01-17 03:57:47

Local clock offset: 0.585 ms

Remote clock offset: 3.325 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 47.298 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.308 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 46.981 ms

Loss rate: 0.21%

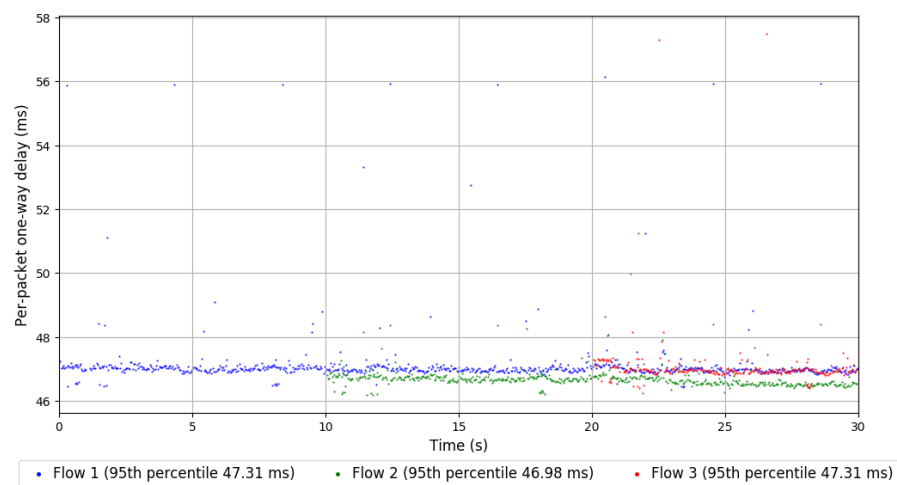
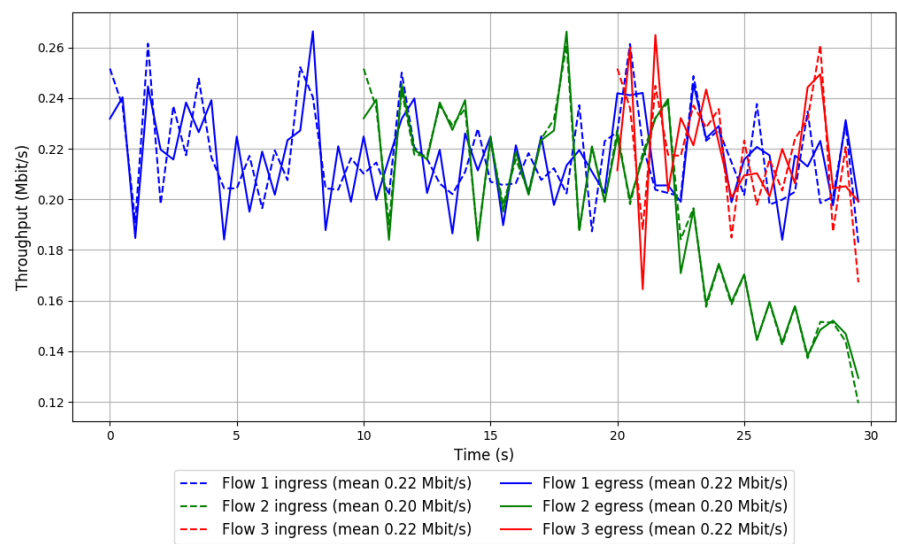
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.314 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-17 04:20:09

End at: 2018-01-17 04:20:39

Local clock offset: 1.544 ms

Remote clock offset: 5.612 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 46.671 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.464 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.672 ms

Loss rate: 0.00%

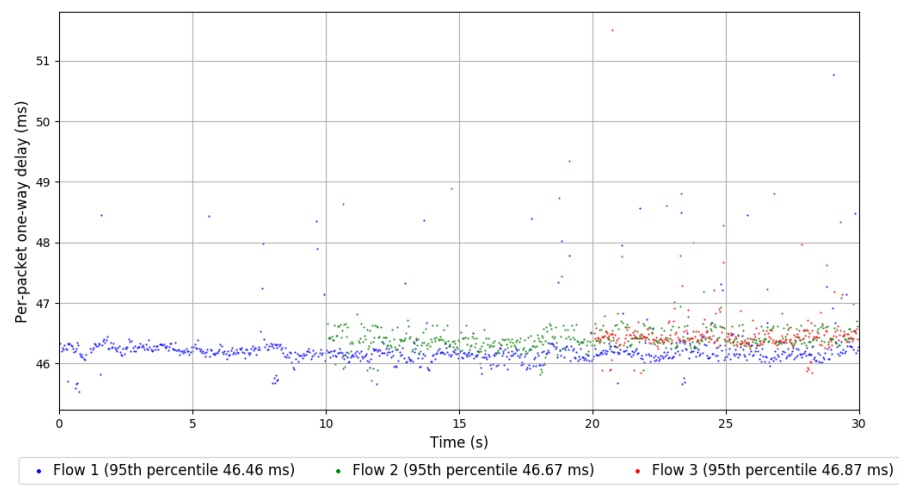
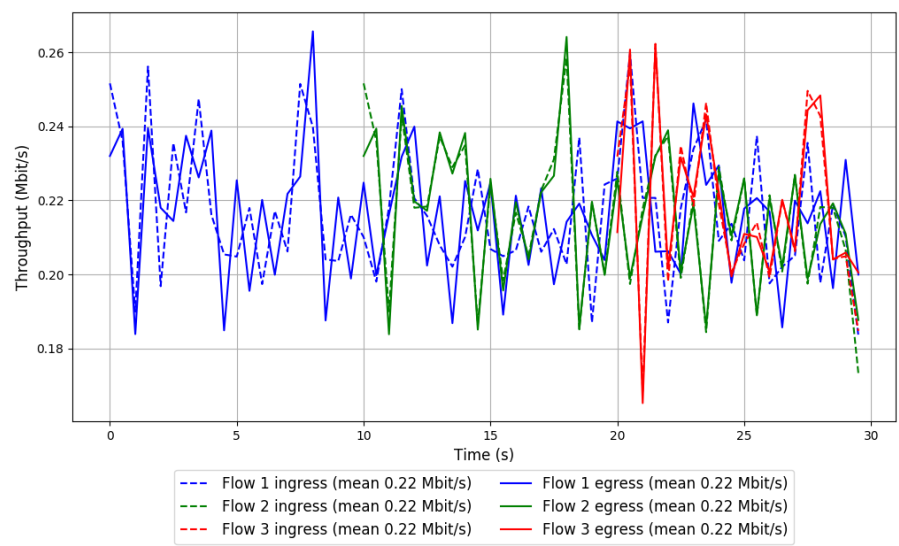
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.871 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-17 04:49:21

End at: 2018-01-17 04:49:51

Local clock offset: 2.208 ms

Remote clock offset: 4.527 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 46.478 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.487 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.178 ms

Loss rate: 0.00%

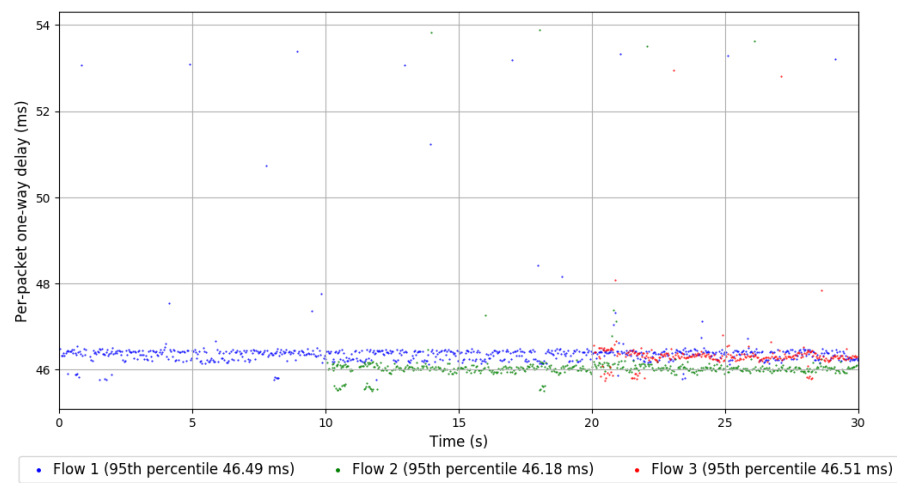
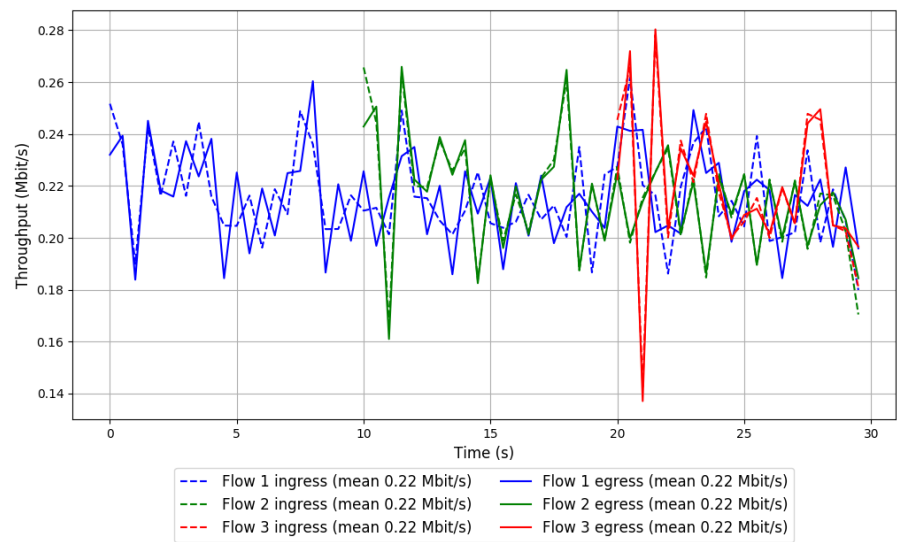
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.507 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-01-17 05:12:58

End at: 2018-01-17 05:13:28

Local clock offset: 2.318 ms

Remote clock offset: 2.27 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 46.787 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.807 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.767 ms

Loss rate: 0.00%

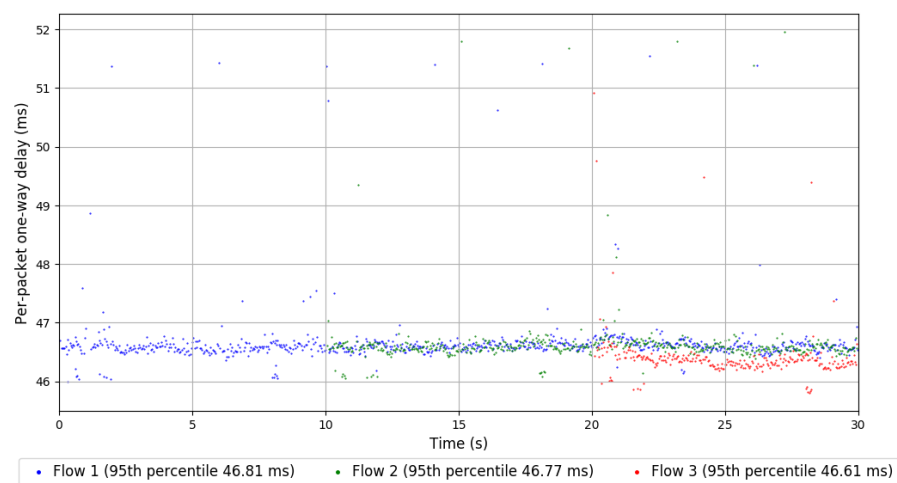
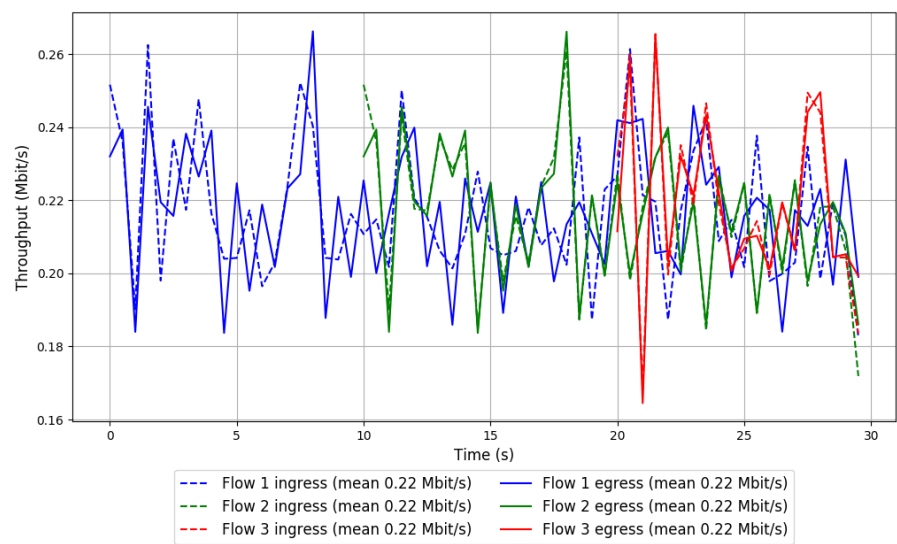
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.607 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

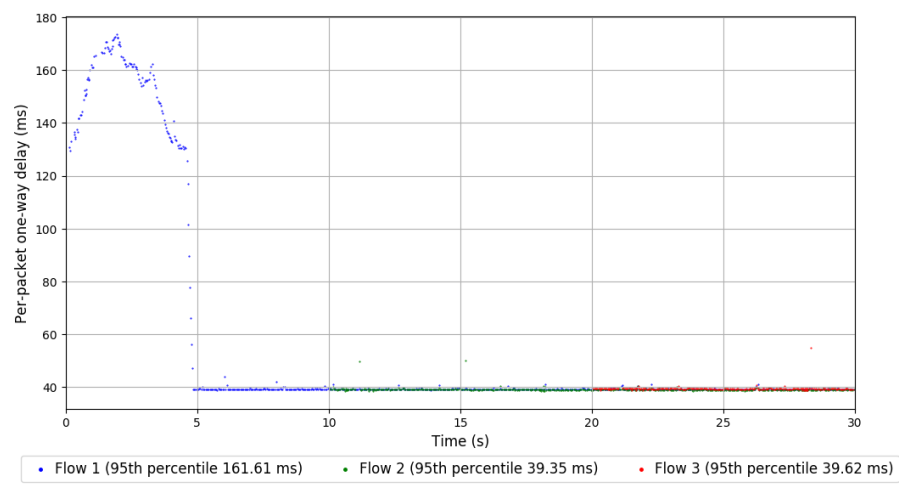
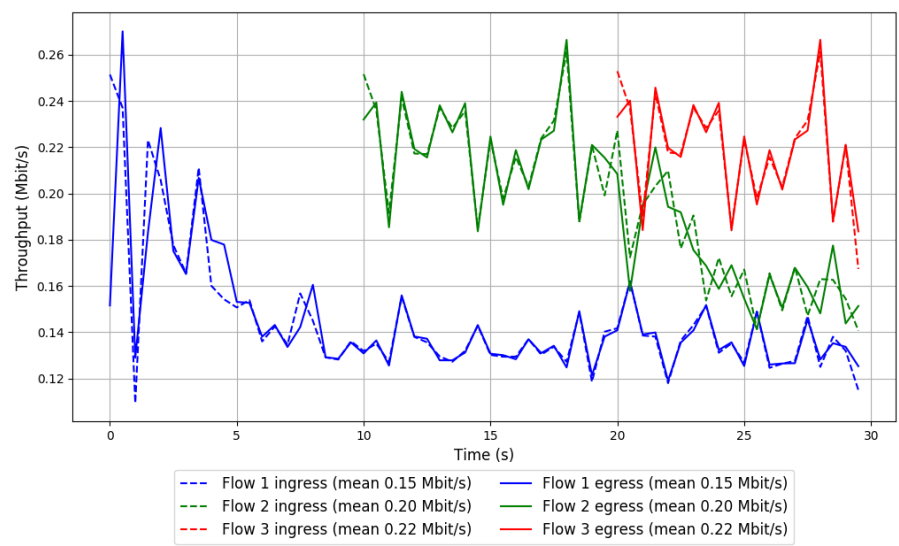


Run 8: Statistics of SCReAM

Start at: 2018-01-17 05:36:14
End at: 2018-01-17 05:36:44
Local clock offset: 2.476 ms
Remote clock offset: -6.971 ms

Below is generated by plot.py at 2018-01-17 07:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 148.701 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 161.610 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 39.355 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.623 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

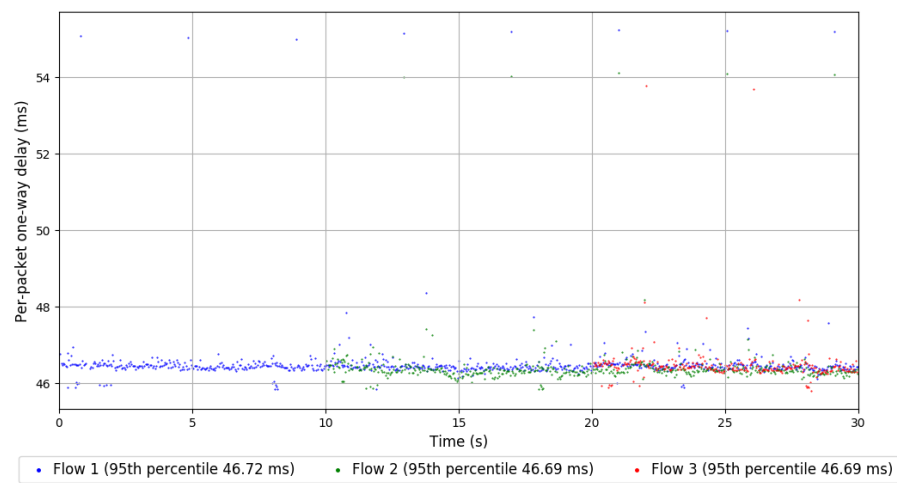
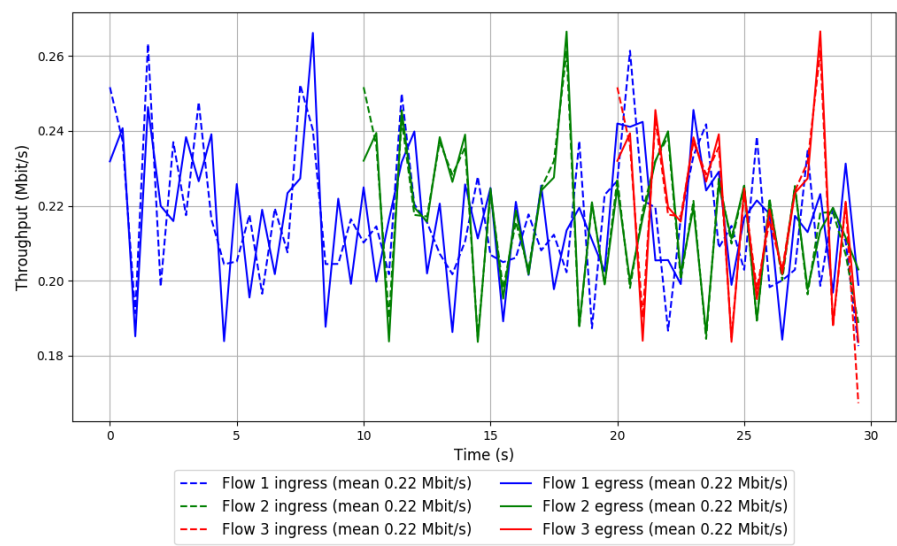


Run 9: Statistics of SReAM

Start at: 2018-01-17 05:59:02
End at: 2018-01-17 05:59:32
Local clock offset: 2.326 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-01-17 07:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 46.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.717 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.693 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.694 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-17 06:21:59

End at: 2018-01-17 06:22:29

Local clock offset: 2.395 ms

Remote clock offset: 2.028 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 46.583 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 46.379 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 46.706 ms

Loss rate: 0.20%

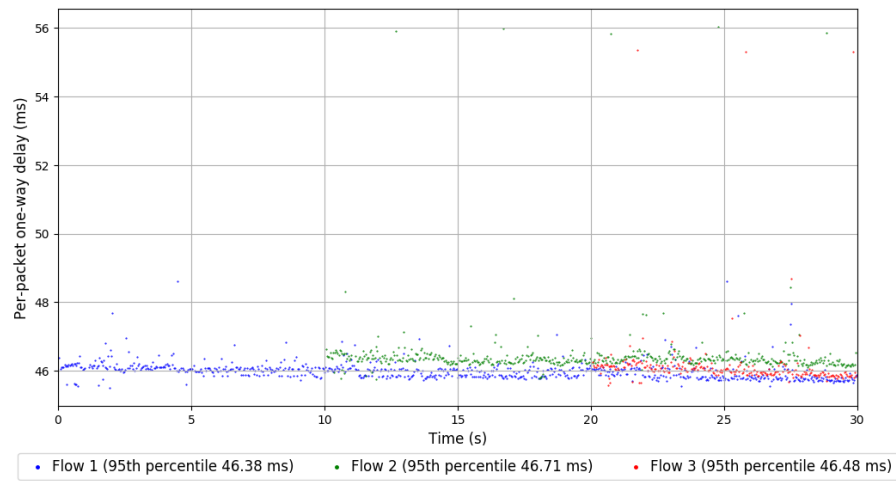
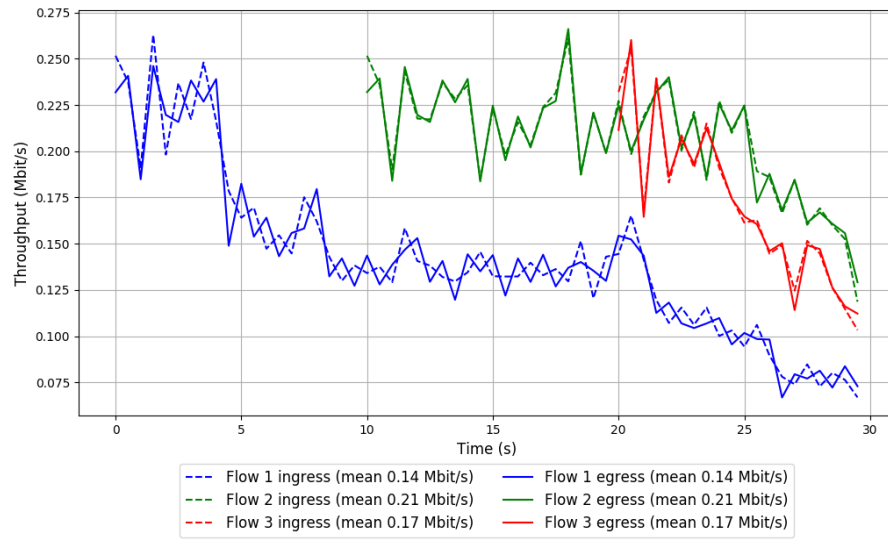
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 46.478 ms

Loss rate: 0.39%

Run 10: Report of SReAM — Data Link

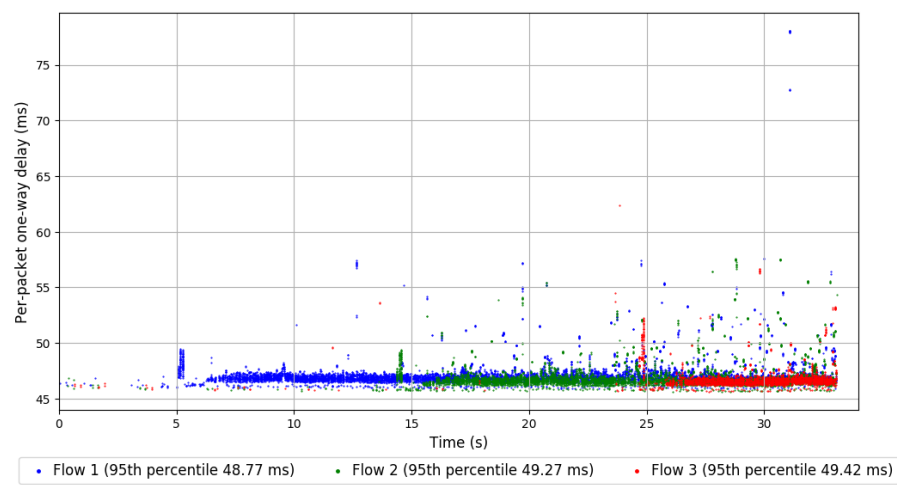
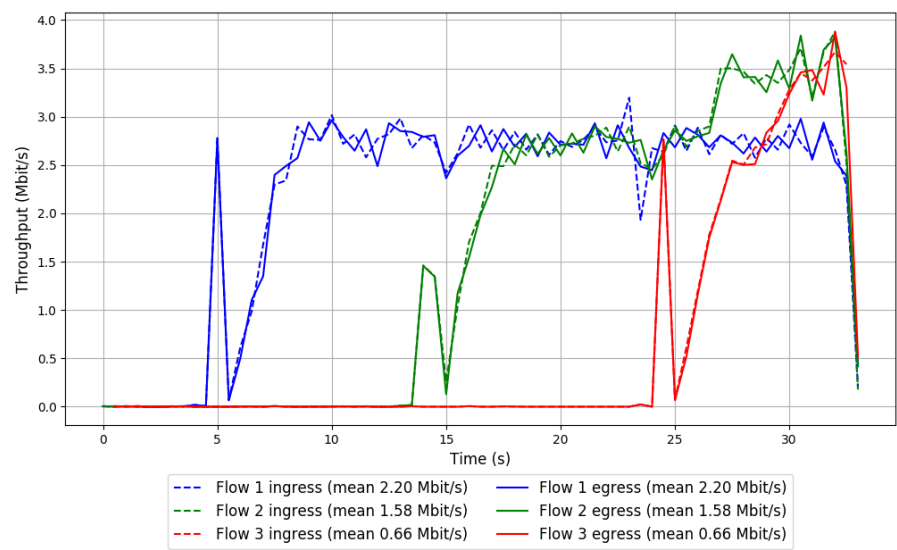


Run 1: Statistics of WebRTC media

Start at: 2018-01-17 02:57:19
End at: 2018-01-17 02:57:49
Local clock offset: -0.826 ms
Remote clock offset: -4.536 ms

Below is generated by plot.py at 2018-01-17 07:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 49.045 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 48.773 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 49.267 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 49.425 ms
Loss rate: 0.09%

Run 1: Report of WebRTC media — Data Link

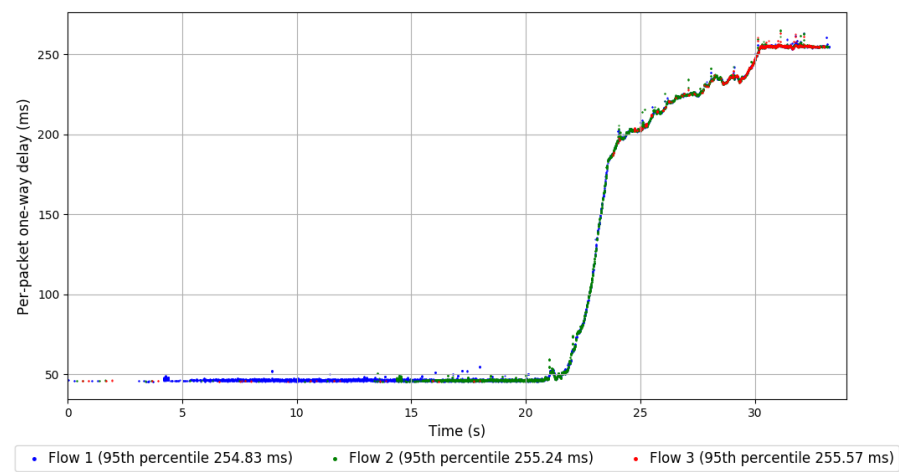
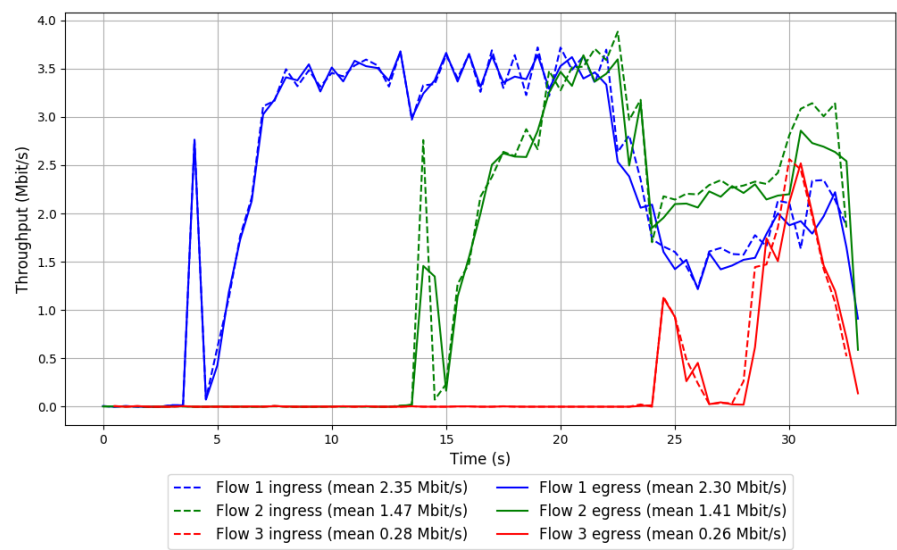


Run 2: Statistics of WebRTC media

Start at: 2018-01-17 03:20:12
End at: 2018-01-17 03:20:42
Local clock offset: 0.047 ms
Remote clock offset: -1.292 ms

Below is generated by plot.py at 2018-01-17 07:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 255.136 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 254.831 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 255.236 ms
Loss rate: 3.71%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 255.574 ms
Loss rate: 5.81%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-17 03:43:03

End at: 2018-01-17 03:43:33

Local clock offset: 0.912 ms

Remote clock offset: 1.63 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 47.753 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 47.469 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 47.653 ms

Loss rate: 0.02%

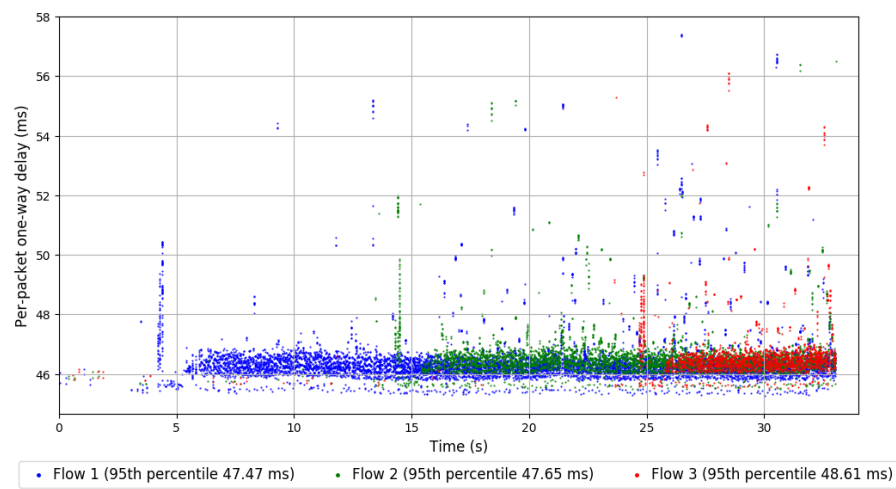
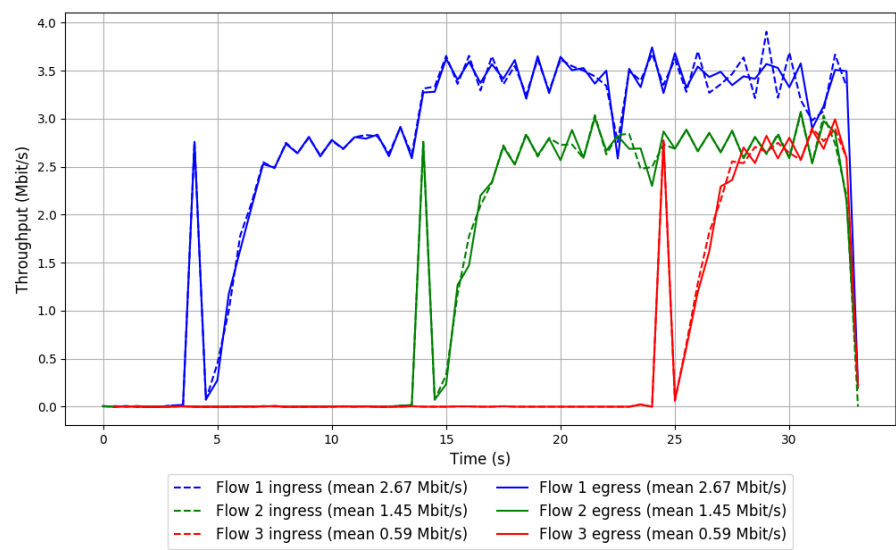
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 48.608 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-17 04:06:22

End at: 2018-01-17 04:06:52

Local clock offset: 1.309 ms

Remote clock offset: 4.18 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 255.454 ms

Loss rate: 9.49%

-- Flow 1:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 254.799 ms

Loss rate: 4.39%

-- Flow 2:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 255.613 ms

Loss rate: 13.16%

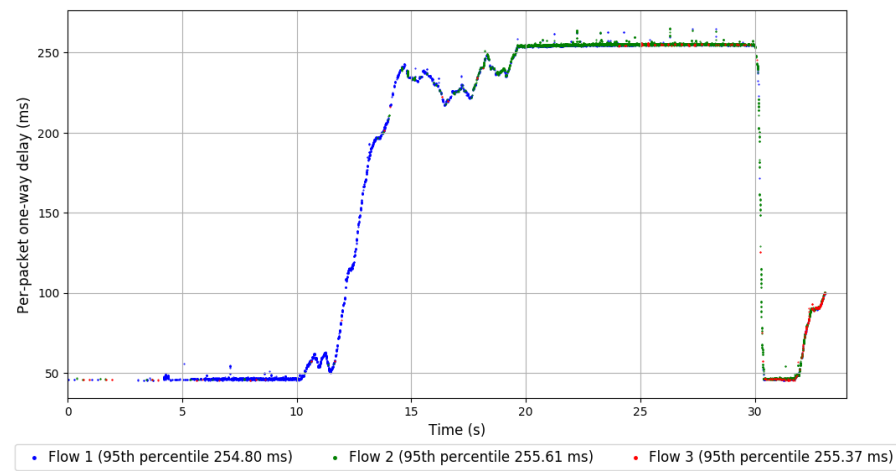
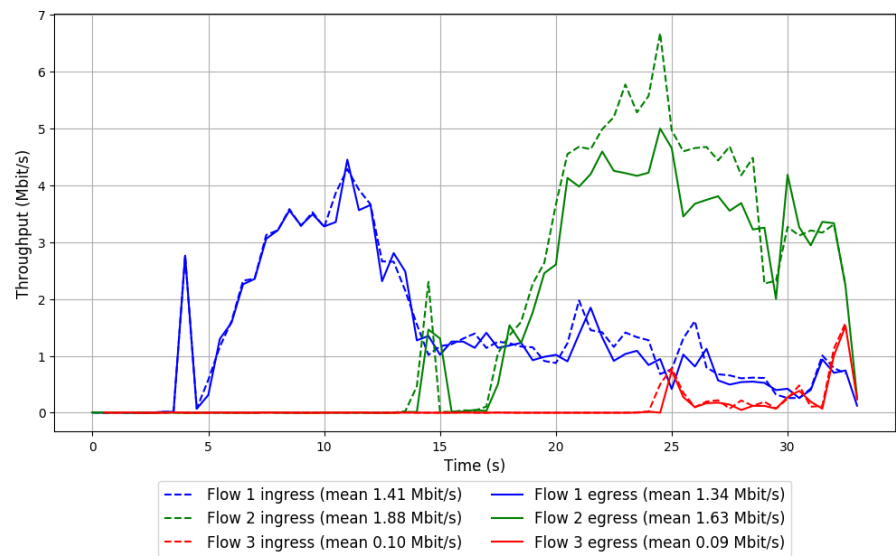
-- Flow 3:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 255.366 ms

Loss rate: 12.84%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-17 04:29:16

End at: 2018-01-17 04:29:46

Local clock offset: 1.913 ms

Remote clock offset: 5.922 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 48.788 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 48.890 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 48.919 ms

Loss rate: 0.00%

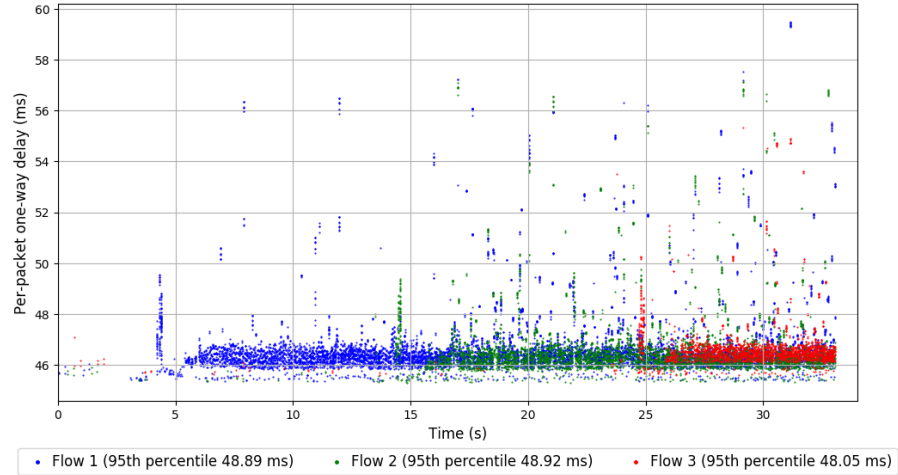
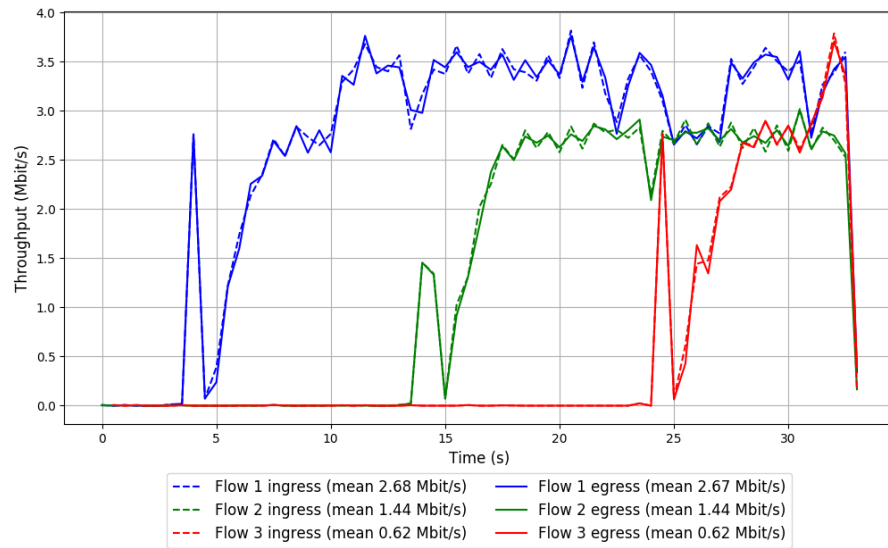
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 48.050 ms

Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-17 04:58:45

End at: 2018-01-17 04:59:15

Local clock offset: 2.179 ms

Remote clock offset: 4.082 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 47.983 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 47.835 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 47.884 ms

Loss rate: 0.16%

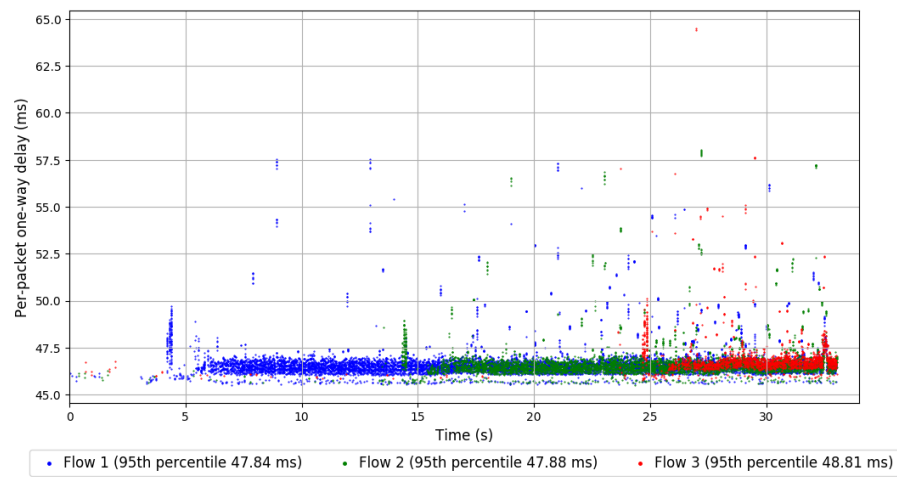
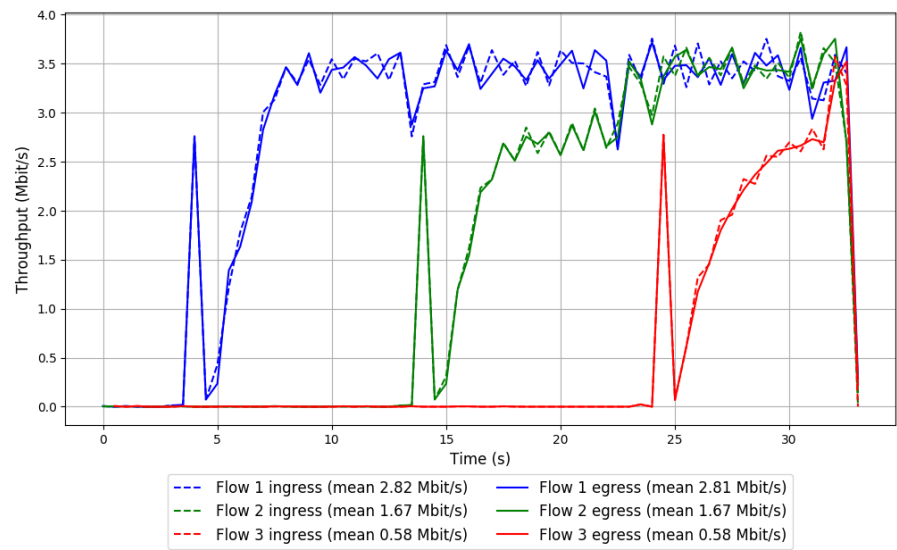
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 48.813 ms

Loss rate: 0.11%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-17 05:22:15

End at: 2018-01-17 05:22:45

Local clock offset: 2.147 ms

Remote clock offset: 1.148 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 49.191 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 49.475 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 48.955 ms

Loss rate: 0.06%

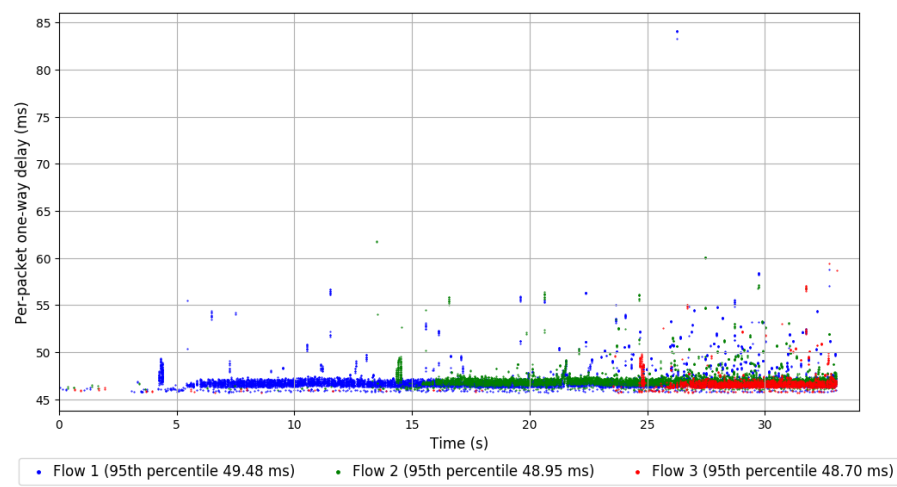
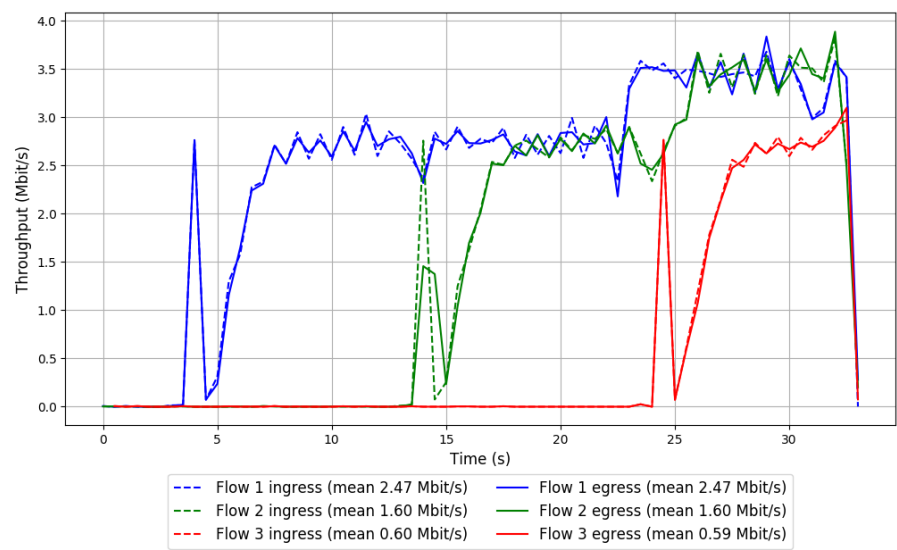
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 48.700 ms

Loss rate: 0.25%

Run 7: Report of WebRTC media — Data Link

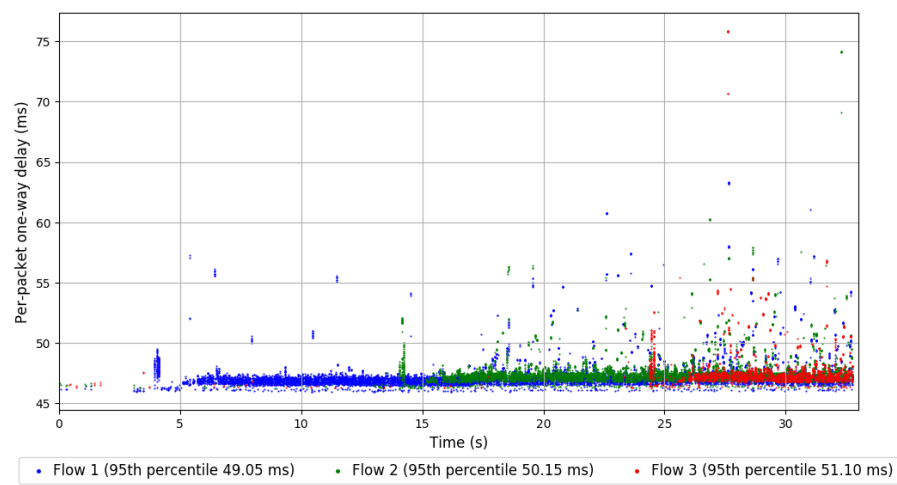
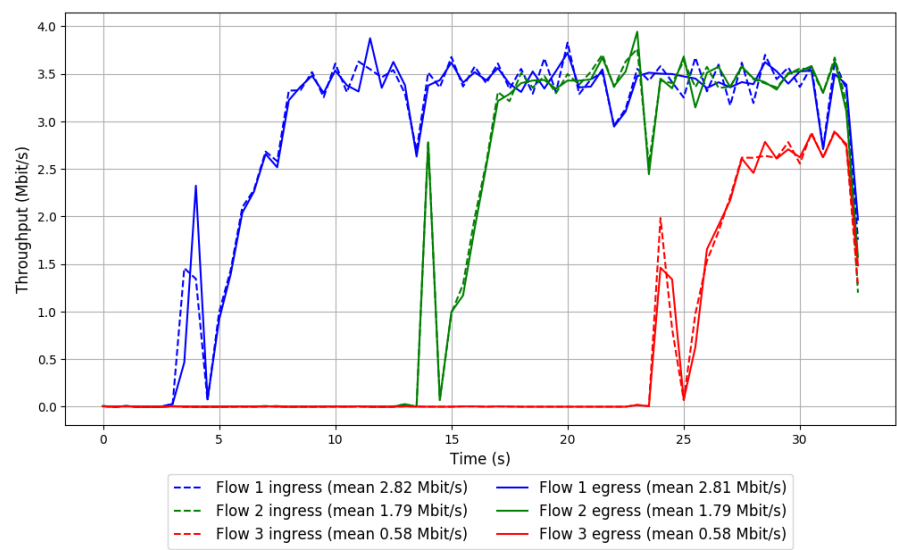


Run 8: Statistics of WebRTC media

Start at: 2018-01-17 05:45:05
End at: 2018-01-17 05:45:35
Local clock offset: 1.86 ms
Remote clock offset: -0.442 ms

```
# Below is generated by plot.py at 2018-01-17 07:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 49.839 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 49.049 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 50.152 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 51.097 ms
Loss rate: 0.06%
```


Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-17 06:08:02

End at: 2018-01-17 06:08:32

Local clock offset: 2.484 ms

Remote clock offset: 5.277 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 54.359 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 54.953 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 53.658 ms

Loss rate: 0.34%

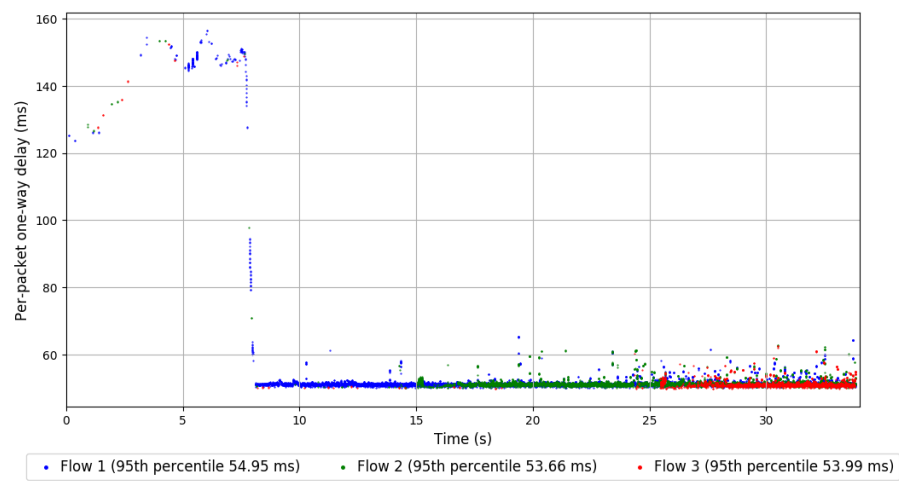
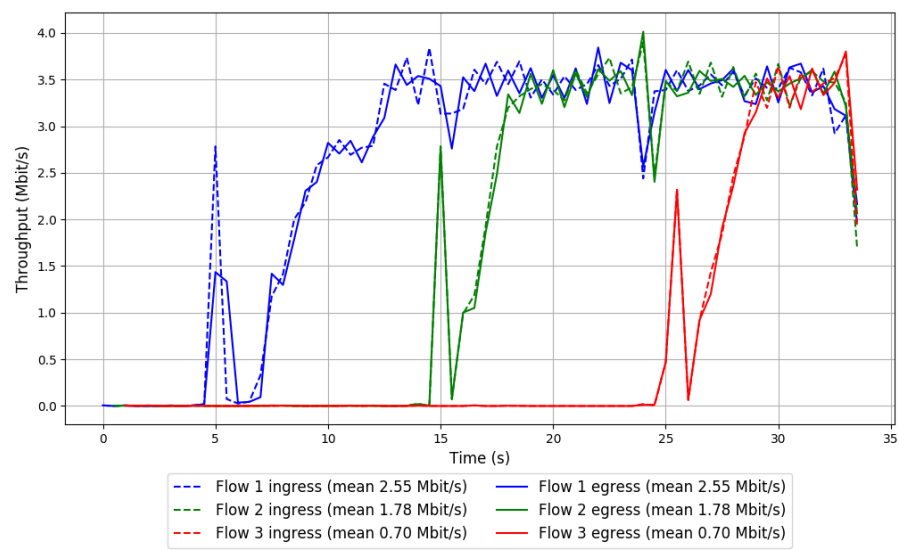
-- Flow 3:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 53.993 ms

Loss rate: 0.29%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-17 06:32:18

End at: 2018-01-17 06:32:48

Local clock offset: 2.223 ms

Remote clock offset: 2.713 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 49.181 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 49.054 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 49.450 ms

Loss rate: 0.13%

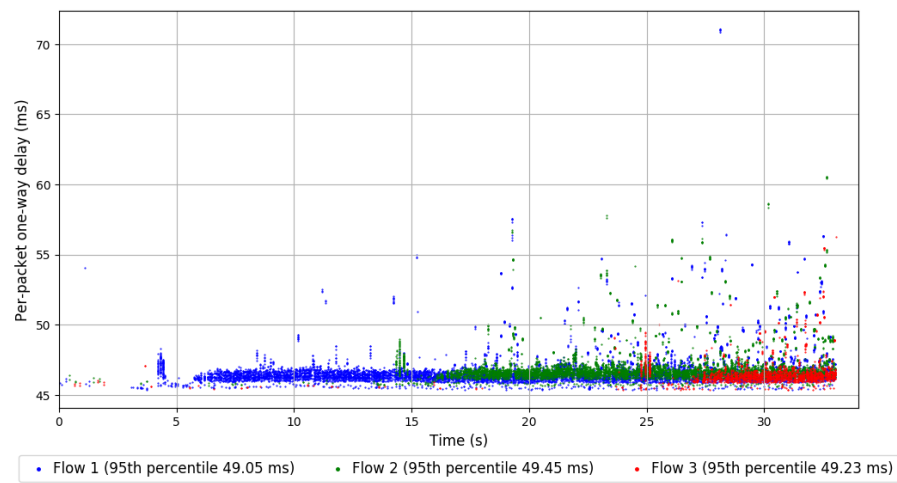
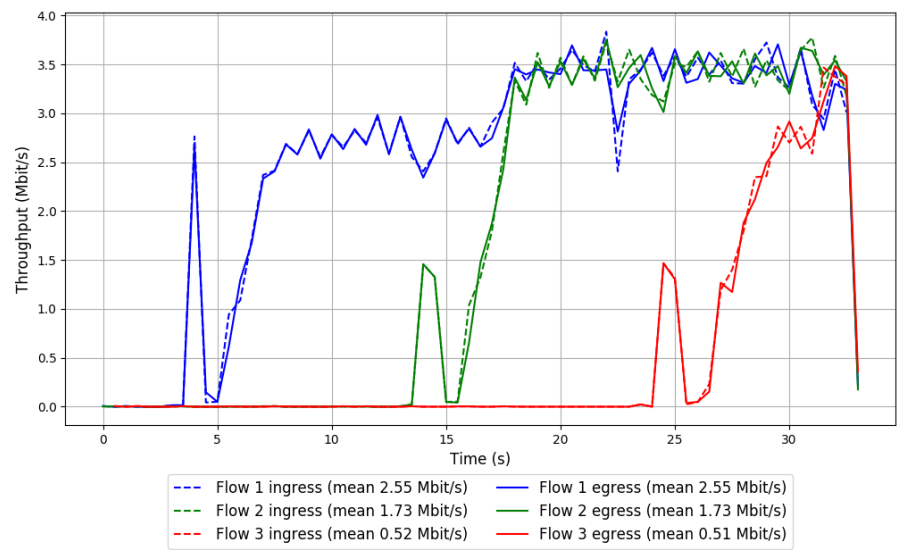
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 49.235 ms

Loss rate: 0.22%

Run 10: Report of WebRTC media — Data Link

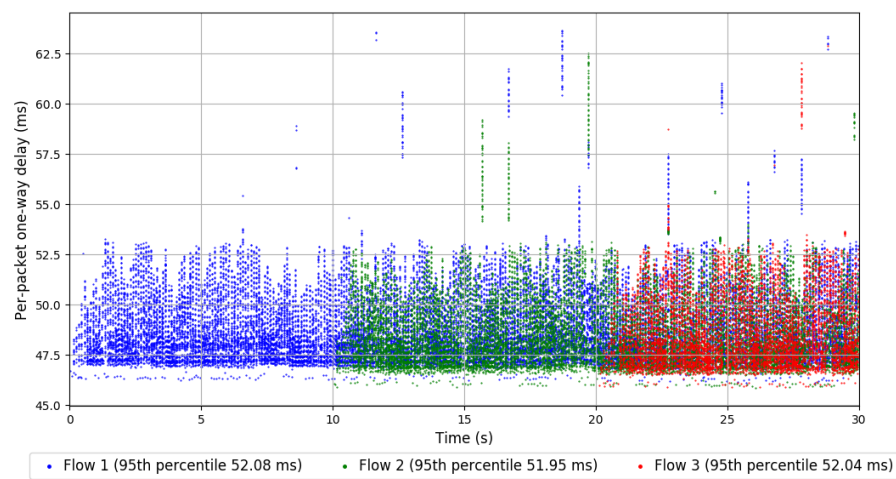
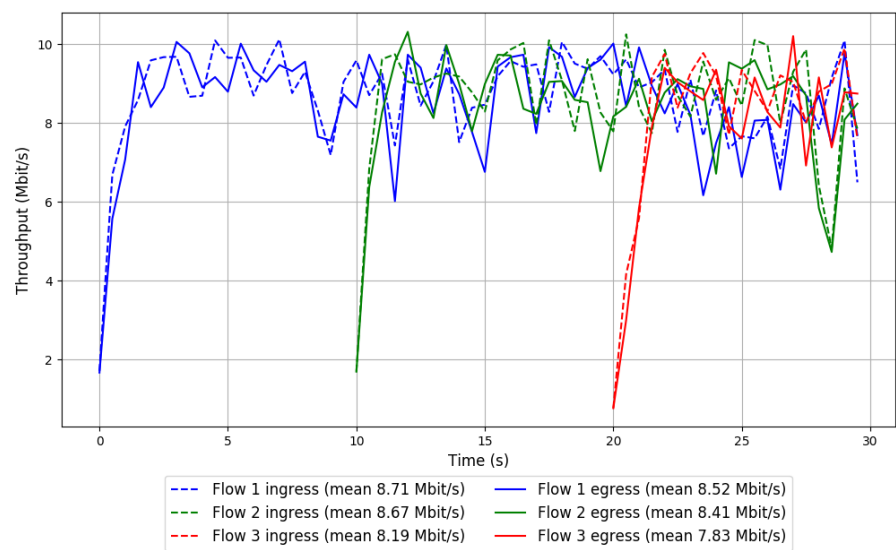


Run 1: Statistics of Sprout

Start at: 2018-01-17 02:46:59
End at: 2018-01-17 02:47:29
Local clock offset: -1.157 ms
Remote clock offset: -4.726 ms

Below is generated by plot.py at 2018-01-17 07:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 52.027 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 52.082 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 51.947 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 52.042 ms
Loss rate: 4.35%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-17 03:09:58

End at: 2018-01-17 03:10:28

Local clock offset: 0.091 ms

Remote clock offset: -2.61 ms

Below is generated by plot.py at 2018-01-17 07:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.54 Mbit/s

95th percentile per-packet one-way delay: 51.173 ms

Loss rate: 2.86%

-- Flow 1:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 51.038 ms

Loss rate: 2.19%

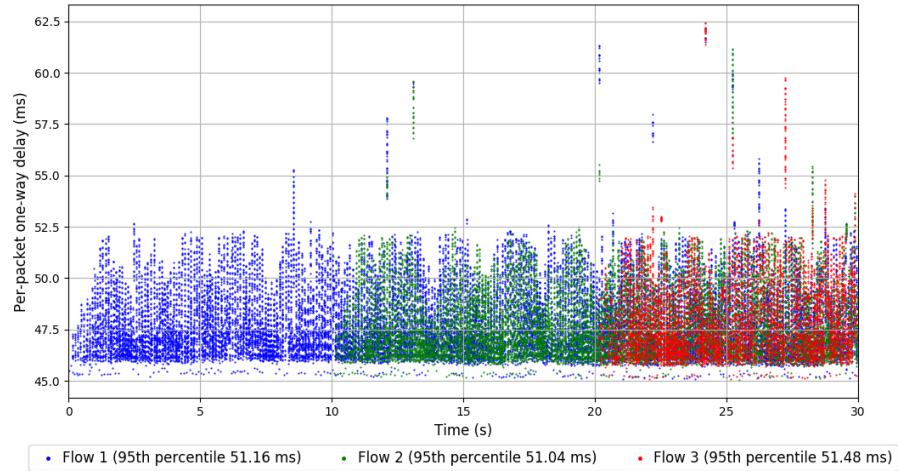
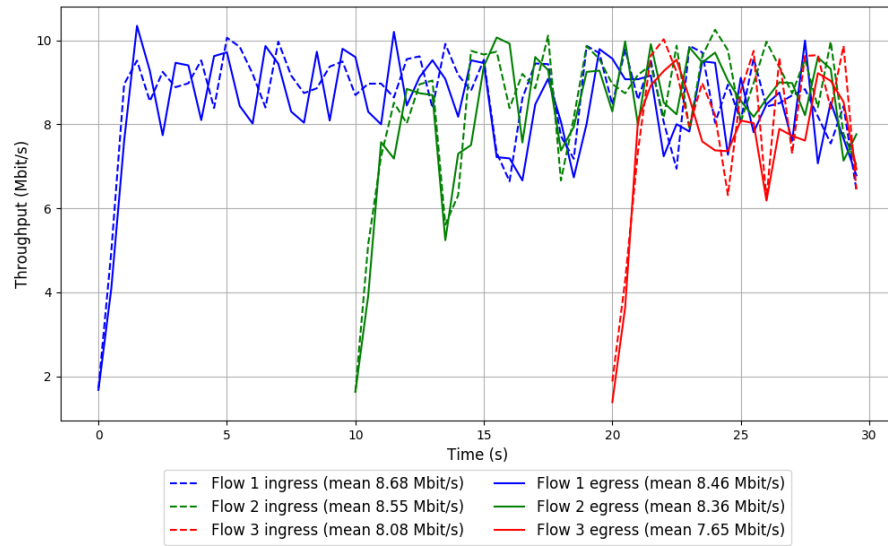
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.478 ms

Loss rate: 5.31%

Run 2: Report of Sprout — Data Link

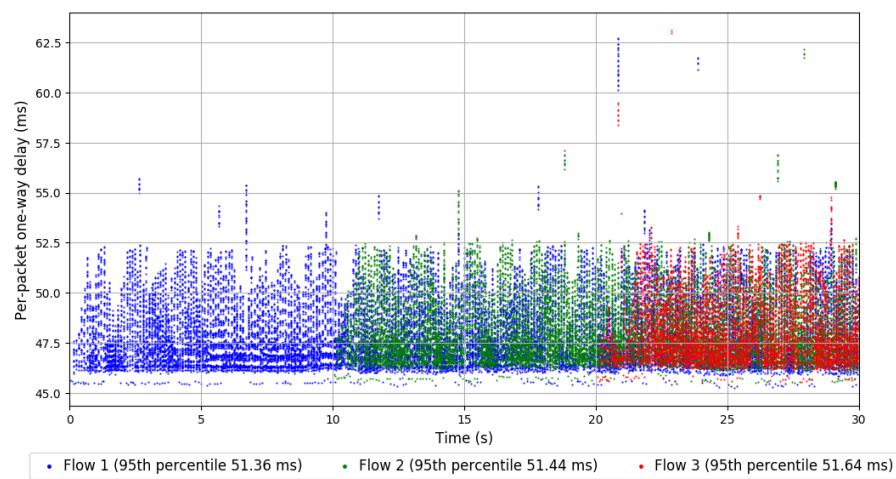
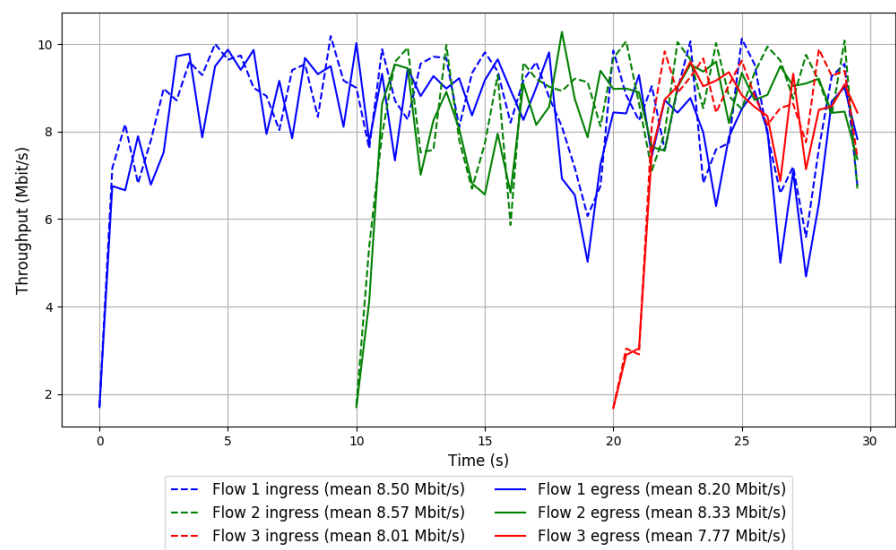


Run 3: Statistics of Sprout

Start at: 2018-01-17 03:32:49
End at: 2018-01-17 03:33:19
Local clock offset: 0.521 ms
Remote clock offset: 0.192 ms

```
# Below is generated by plot.py at 2018-01-17 07:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.30 Mbit/s
95th percentile per-packet one-way delay: 51.433 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 51.359 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 51.444 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 51.642 ms
Loss rate: 2.94%
```

Run 3: Report of Sprout — Data Link

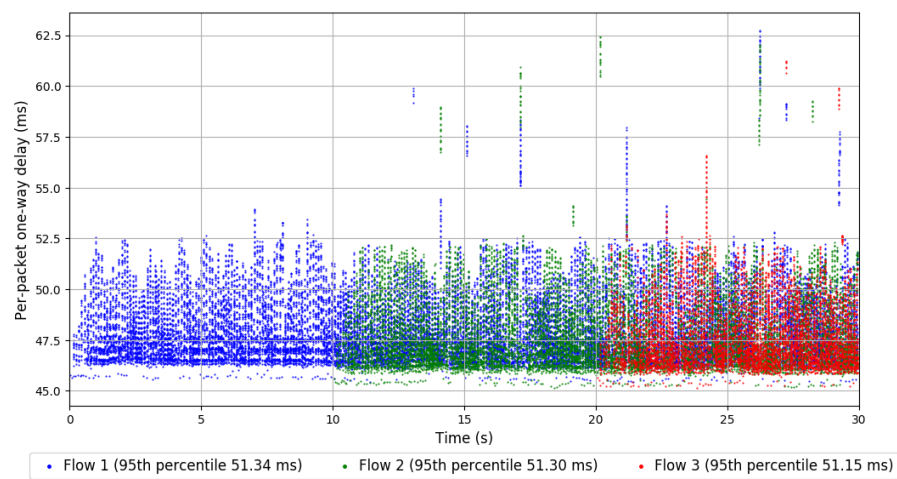
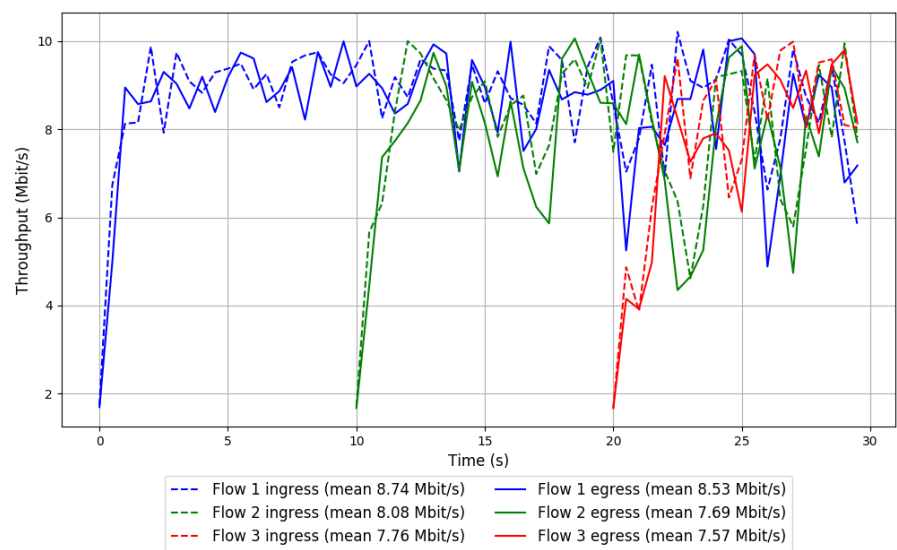


Run 4: Statistics of Sprout

Start at: 2018-01-17 03:56:05
End at: 2018-01-17 03:56:35
Local clock offset: 1.379 ms
Remote clock offset: 3.185 ms

```
# Below is generated by plot.py at 2018-01-17 07:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.14 Mbit/s
95th percentile per-packet one-way delay: 51.297 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 51.337 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 51.297 ms
Loss rate: 4.84%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 51.151 ms
Loss rate: 2.47%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-17 04:18:57

End at: 2018-01-17 04:19:27

Local clock offset: 1.767 ms

Remote clock offset: 5.514 ms

Below is generated by plot.py at 2018-01-17 07:15:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 51.334 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 8.11 Mbit/s

95th percentile per-packet one-way delay: 51.371 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.146 ms

Loss rate: 2.43%

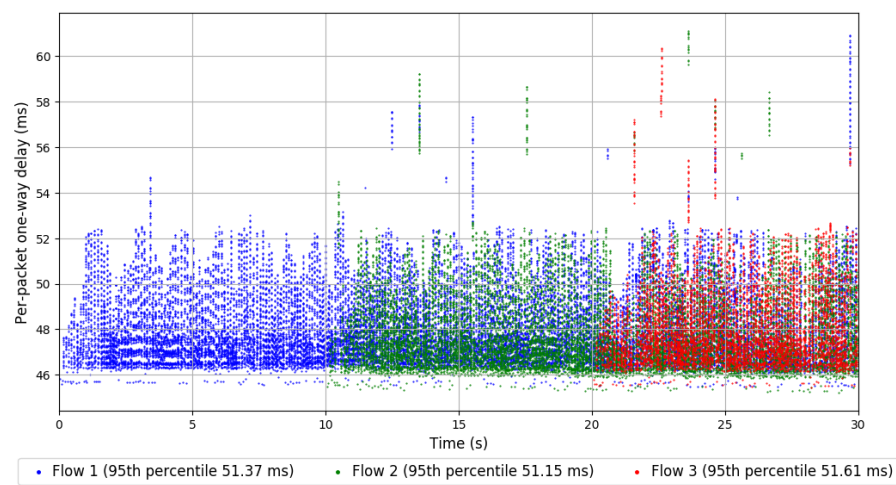
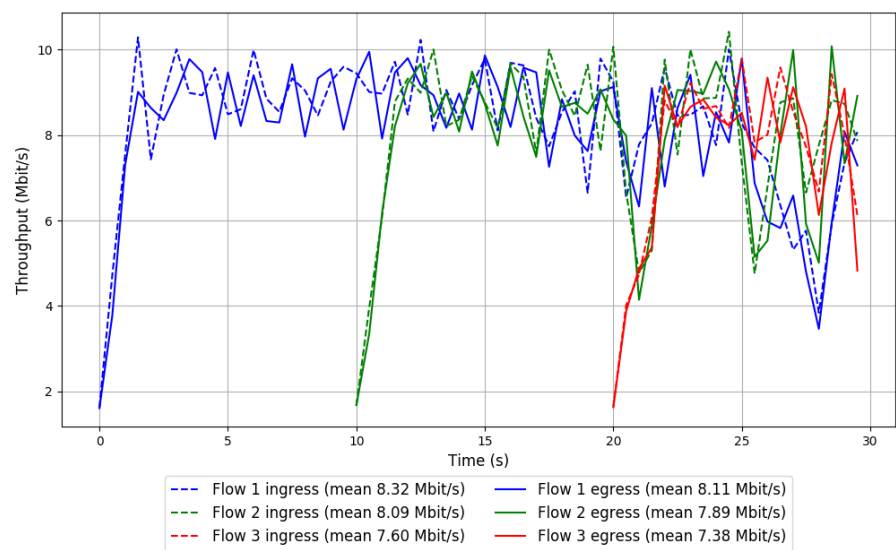
-- Flow 3:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 51.614 ms

Loss rate: 2.87%

Run 5: Report of Sprout — Data Link

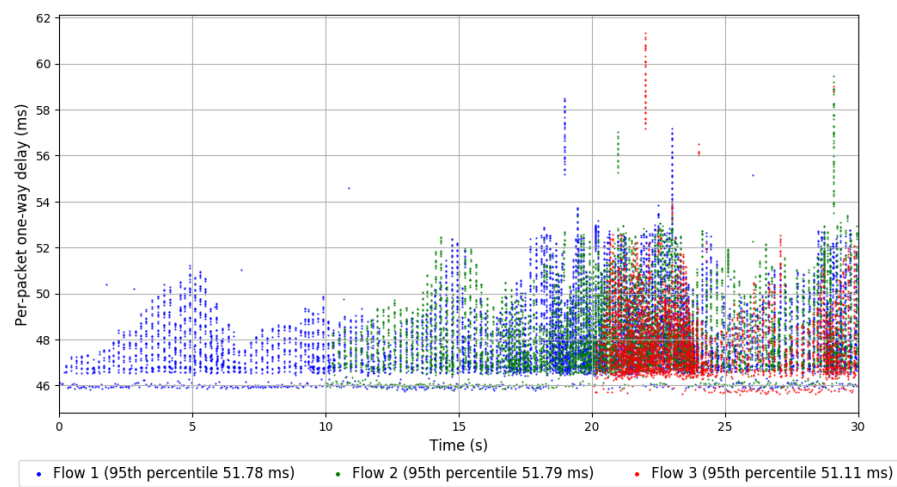
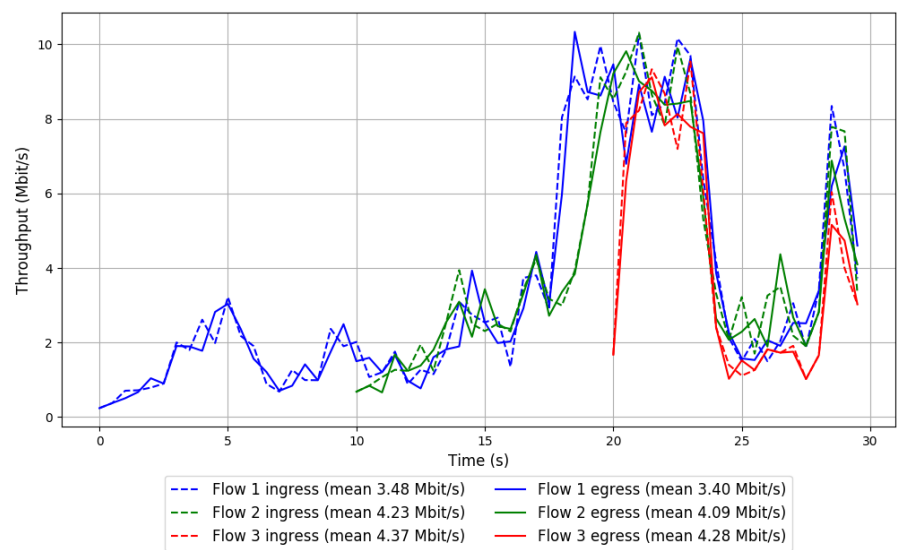


Run 6: Statistics of Sprout

Start at: 2018-01-17 04:47:49
End at: 2018-01-17 04:48:19
Local clock offset: 1.964 ms
Remote clock offset: 4.605 ms

```
# Below is generated by plot.py at 2018-01-17 07:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 51.707 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 51.776 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 51.790 ms
Loss rate: 3.22%
-- Flow 3:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 51.109 ms
Loss rate: 1.94%
```


Run 6: Report of Sprout — Data Link

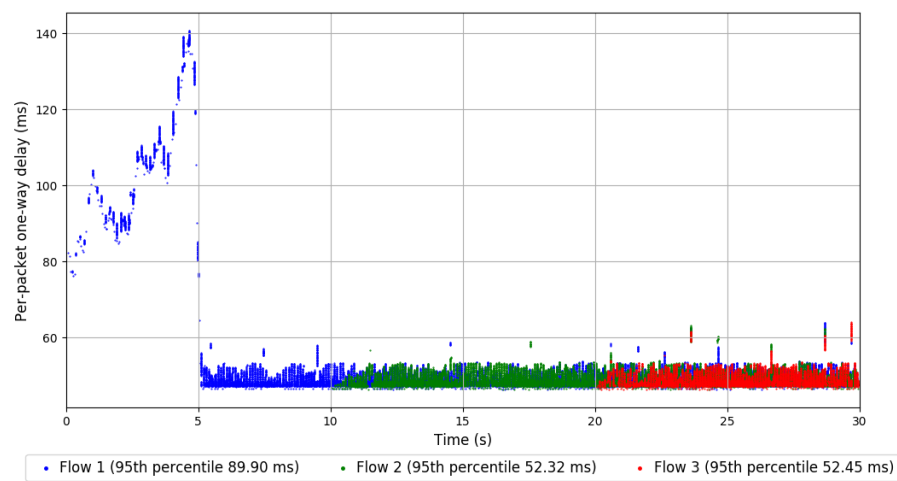
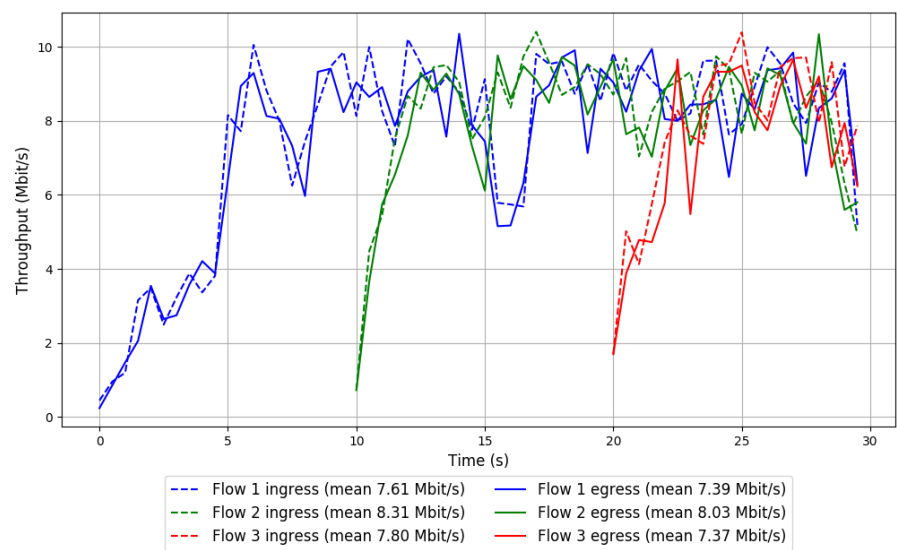


Run 7: Statistics of Sprout

Start at: 2018-01-17 05:11:44
End at: 2018-01-17 05:12:14
Local clock offset: 2.023 ms
Remote clock offset: 2.536 ms

```
# Below is generated by plot.py at 2018-01-17 07:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.17 Mbit/s
95th percentile per-packet one-way delay: 53.008 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 89.903 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 52.316 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 52.451 ms
Loss rate: 5.44%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-17 05:34:59

End at: 2018-01-17 05:35:29

Local clock offset: 2.419 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2018-01-17 07:15:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.51 Mbit/s

95th percentile per-packet one-way delay: 51.593 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 51.613 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.614 ms

Loss rate: 3.96%

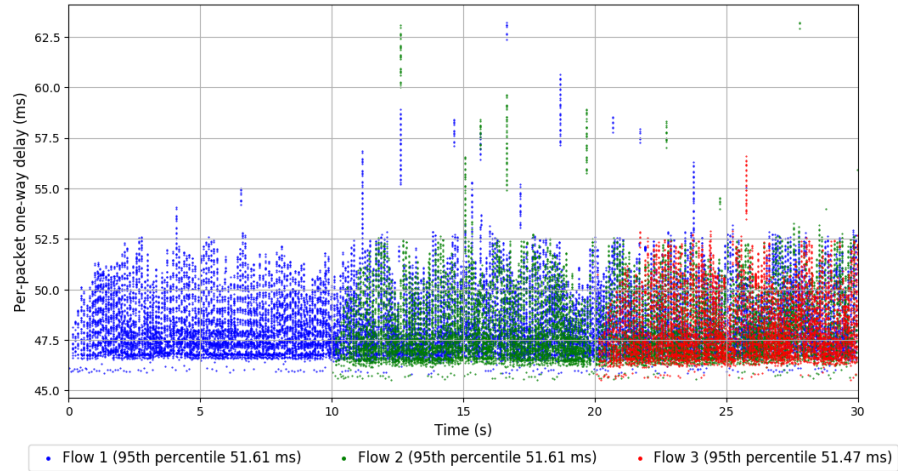
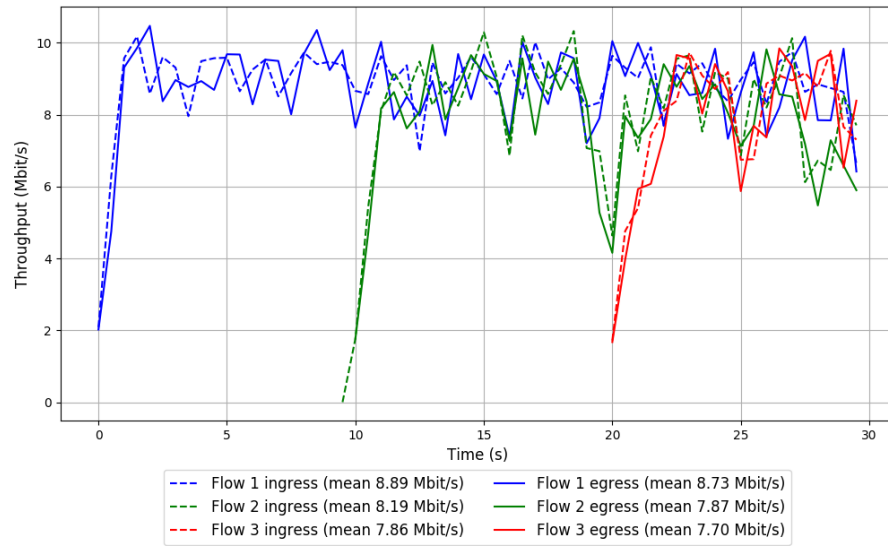
-- Flow 3:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 51.468 ms

Loss rate: 2.03%

Run 8: Report of Sprout — Data Link

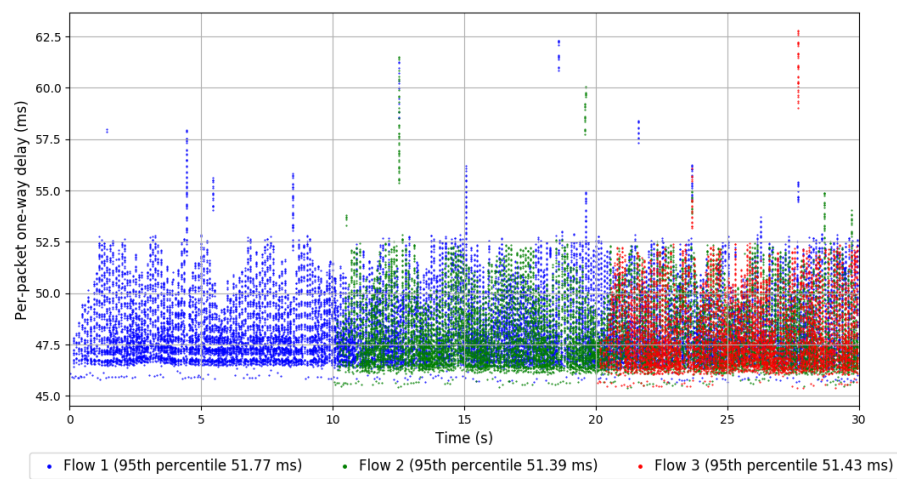
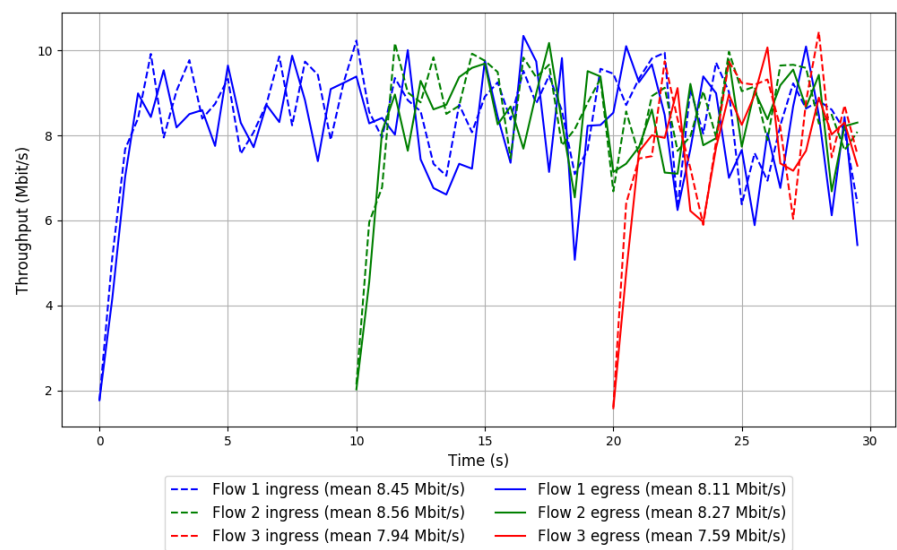


Run 9: Statistics of Sprout

Start at: 2018-01-17 05:57:51
End at: 2018-01-17 05:58:21
Local clock offset: 2.378 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-01-17 07:15:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 51.594 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 8.11 Mbit/s
95th percentile per-packet one-way delay: 51.775 ms
Loss rate: 4.04%
-- Flow 2:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 51.388 ms
Loss rate: 3.32%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 51.432 ms
Loss rate: 4.43%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-17 06:20:48

End at: 2018-01-17 06:21:18

Local clock offset: 2.619 ms

Remote clock offset: 1.937 ms

Below is generated by plot.py at 2018-01-17 07:15:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 51.306 ms

Loss rate: 2.96%

-- Flow 1:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 51.445 ms

Loss rate: 3.28%

-- Flow 2:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 50.953 ms

Loss rate: 2.21%

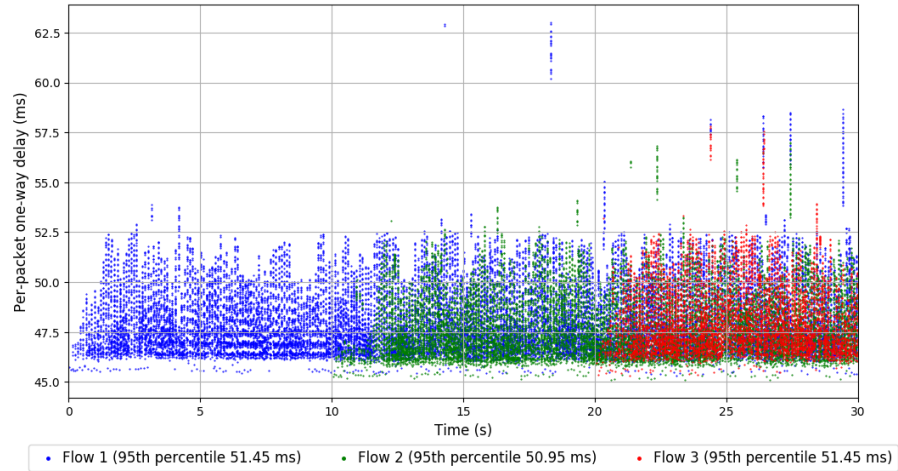
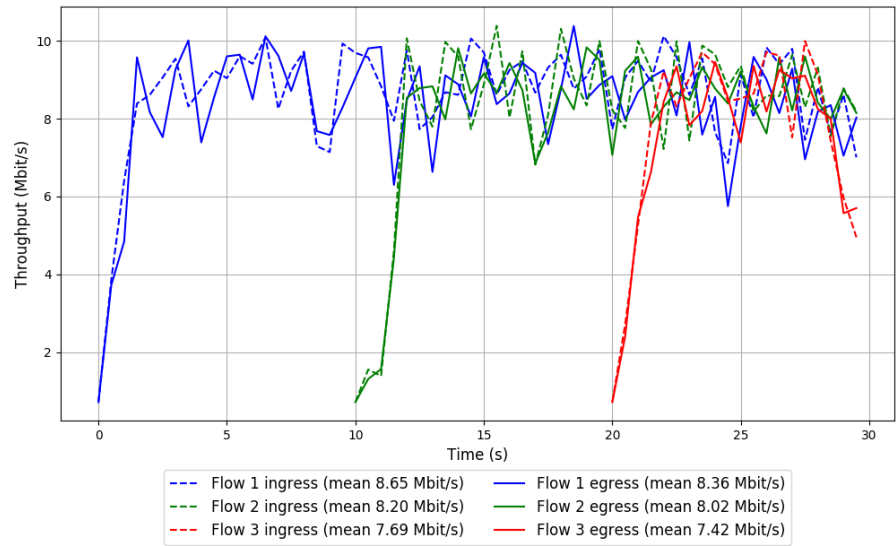
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 51.446 ms

Loss rate: 3.50%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

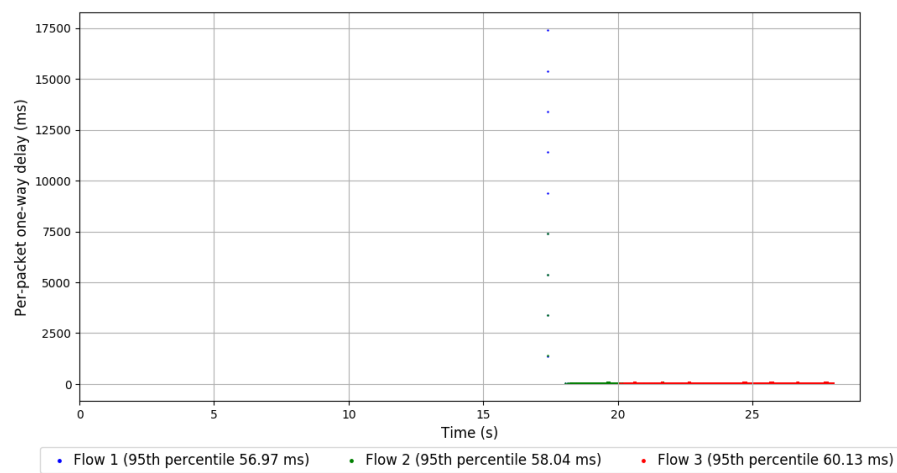
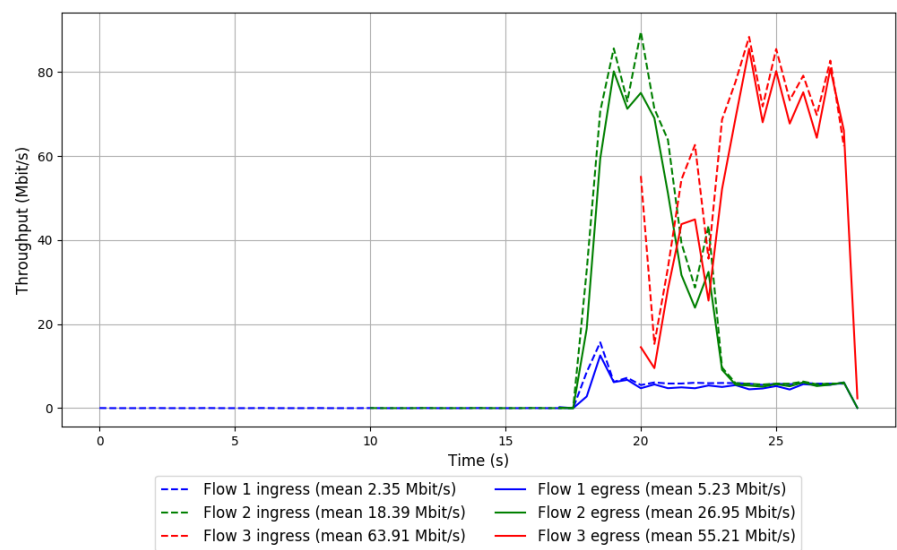
Start at: 2018-01-17 02:55:59

End at: 2018-01-17 02:56:29

Local clock offset: -0.242 ms

Remote clock offset: -4.669 ms

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

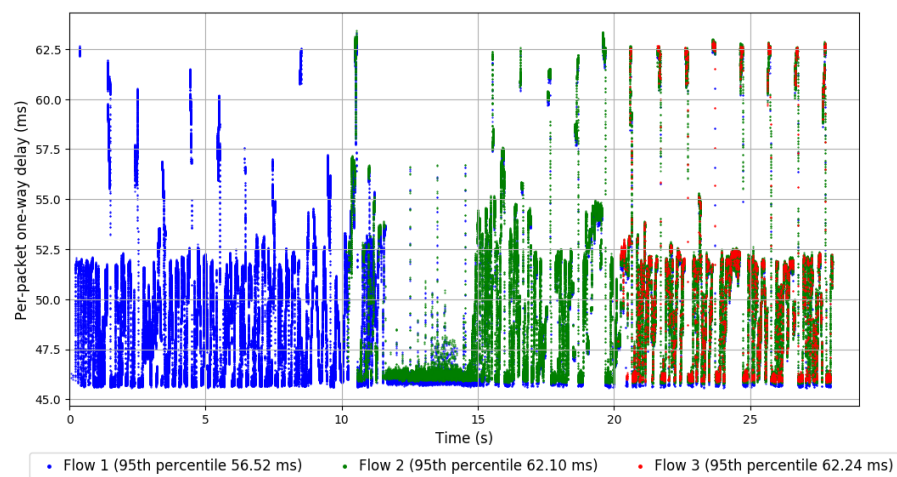
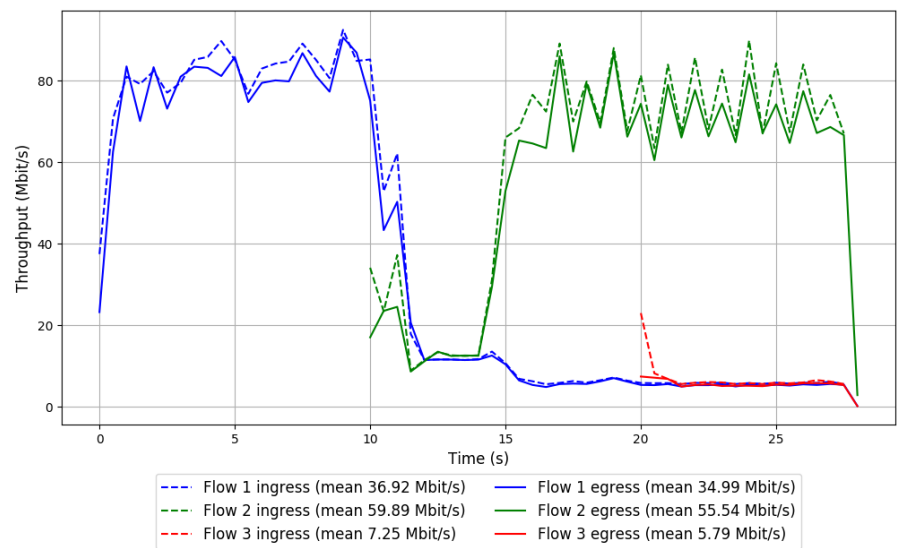


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-17 03:18:55
End at: 2018-01-17 03:19:25
Local clock offset: 0.41 ms
Remote clock offset: -1.509 ms

Below is generated by plot.py at 2018-01-17 07:17:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 60.762 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: 56.521 ms
Loss rate: 5.21%
-- Flow 2:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 62.099 ms
Loss rate: 7.24%
-- Flow 3:
Average throughput: 5.79 Mbit/s
95th percentile per-packet one-way delay: 62.236 ms
Loss rate: 20.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-17 03:41:50

End at: 2018-01-17 03:42:20

Local clock offset: 1.024 ms

Remote clock offset: 1.403 ms

Below is generated by plot.py at 2018-01-17 07:17:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.00 Mbit/s

95th percentile per-packet one-way delay: 255.173 ms

Loss rate: 10.96%

-- Flow 1:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 255.283 ms

Loss rate: 9.23%

-- Flow 2:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 143.025 ms

Loss rate: 10.60%

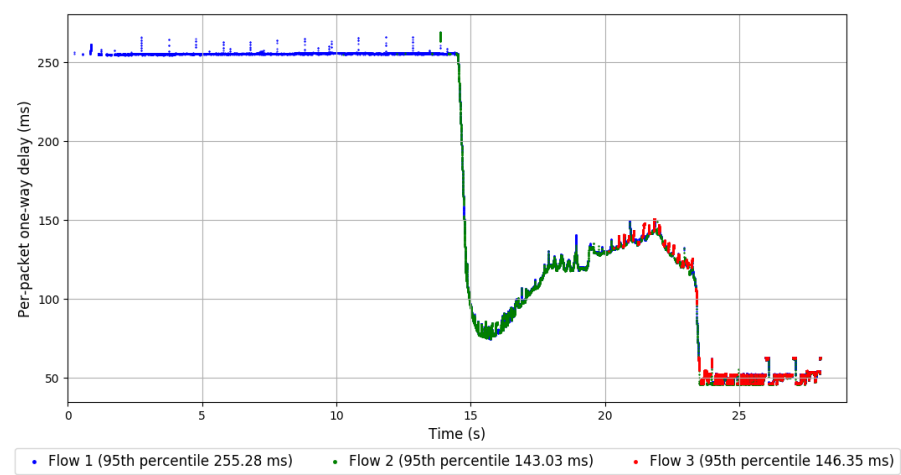
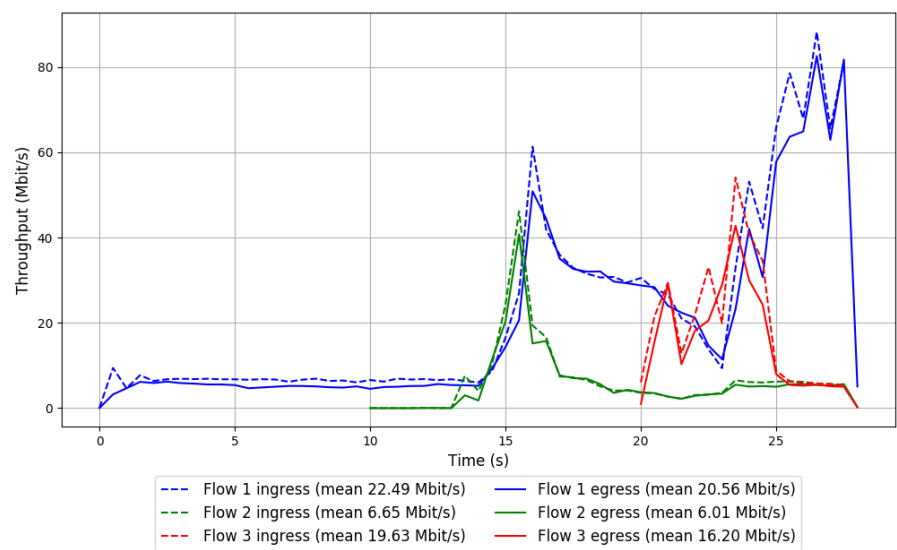
-- Flow 3:

Average throughput: 16.20 Mbit/s

95th percentile per-packet one-way delay: 146.346 ms

Loss rate: 18.22%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-17 04:05:06

End at: 2018-01-17 04:05:36

Local clock offset: 1.051 ms

Remote clock offset: 4.075 ms

Below is generated by plot.py at 2018-01-17 07:17:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 55.581 ms

Loss rate: 4.89%

-- Flow 1:

Average throughput: 58.10 Mbit/s

95th percentile per-packet one-way delay: 55.639 ms

Loss rate: 4.32%

-- Flow 2:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 54.326 ms

Loss rate: 8.53%

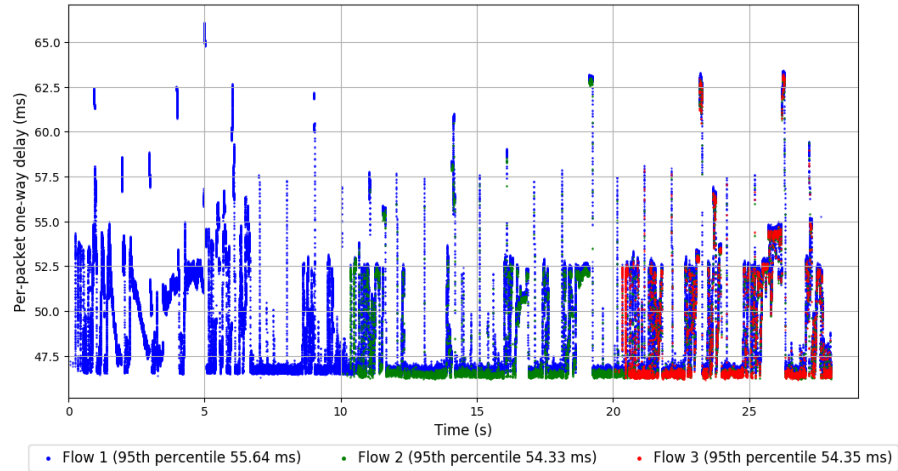
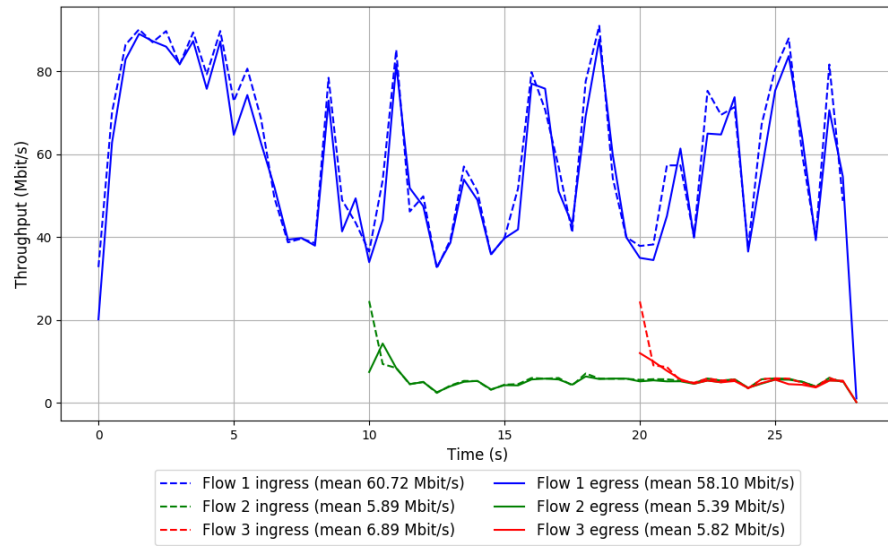
-- Flow 3:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 54.355 ms

Loss rate: 15.43%

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



Run 5: Statistics of TaoVA-100x

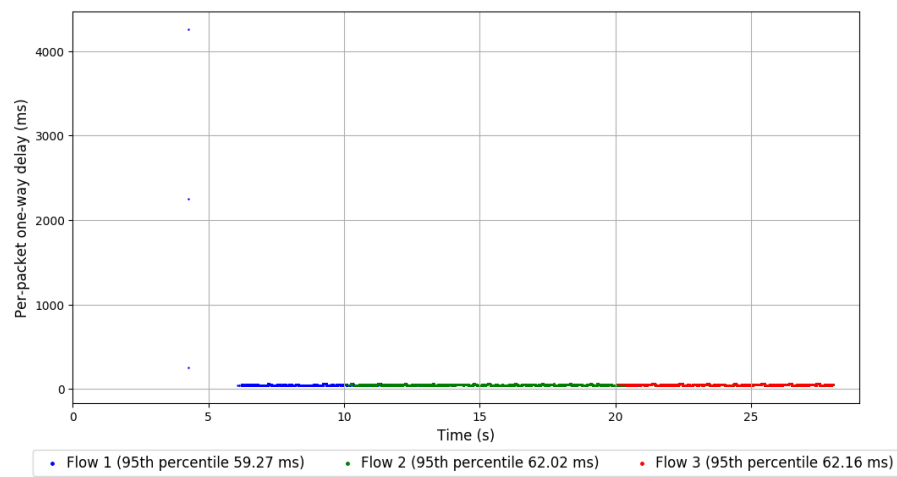
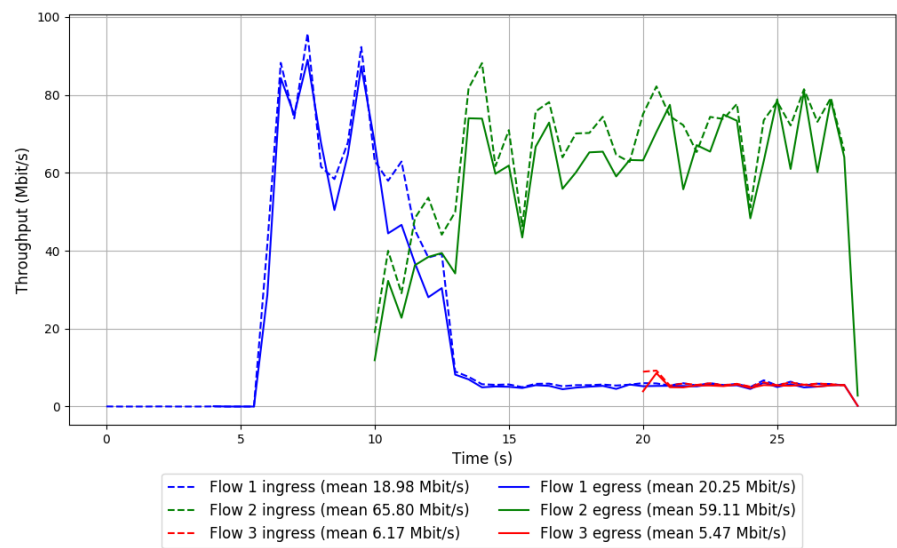
Start at: 2018-01-17 04:28:00

End at: 2018-01-17 04:28:30

Local clock offset: 1.925 ms

Remote clock offset: 5.981 ms

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-17 04:57:26

End at: 2018-01-17 04:57:56

Local clock offset: 1.817 ms

Remote clock offset: 4.06 ms

Below is generated by plot.py at 2018-01-17 07:17:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.93 Mbit/s

95th percentile per-packet one-way delay: 62.165 ms

Loss rate: 7.87%

-- Flow 1:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 59.763 ms

Loss rate: 6.82%

-- Flow 2:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 62.991 ms

Loss rate: 7.13%

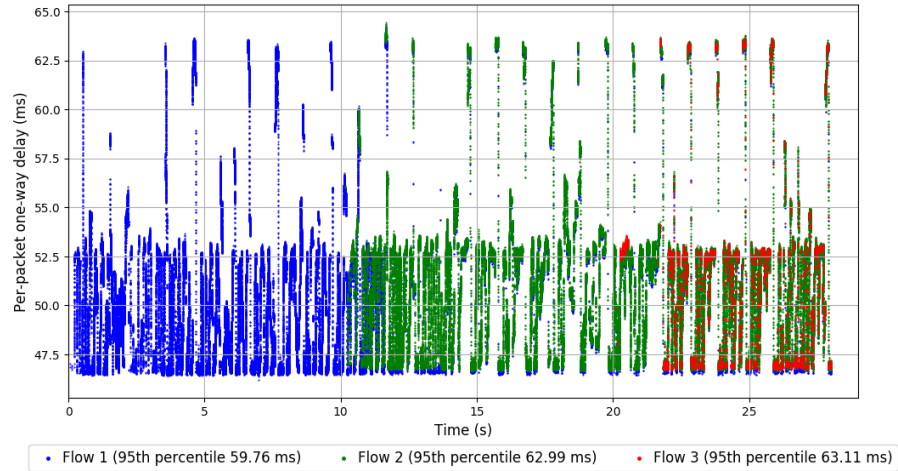
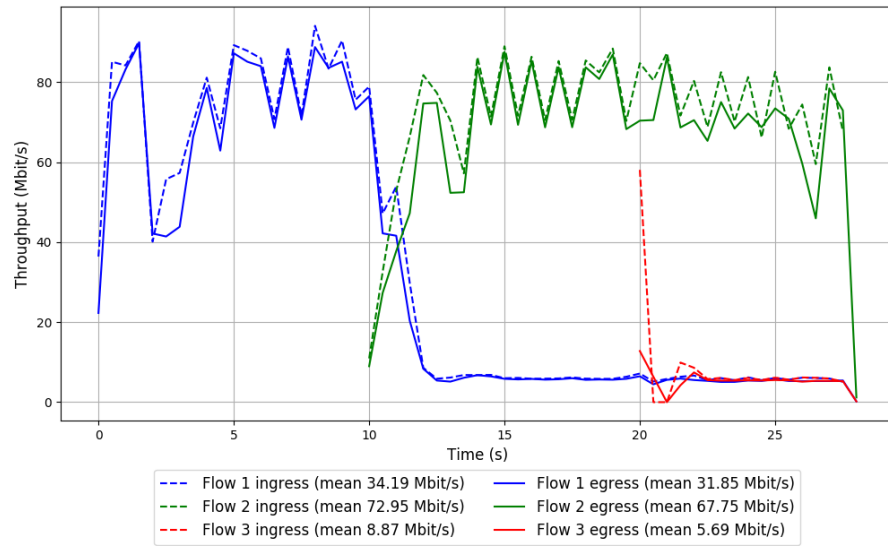
-- Flow 3:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 63.114 ms

Loss rate: 35.89%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-17 05:20:57

End at: 2018-01-17 05:21:27

Local clock offset: 2.027 ms

Remote clock offset: 1.184 ms

Below is generated by plot.py at 2018-01-17 07:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 61.240 ms

Loss rate: 5.17%

-- Flow 1:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 61.206 ms

Loss rate: 4.70%

-- Flow 2:

Average throughput: 5.40 Mbit/s

95th percentile per-packet one-way delay: 62.394 ms

Loss rate: 7.42%

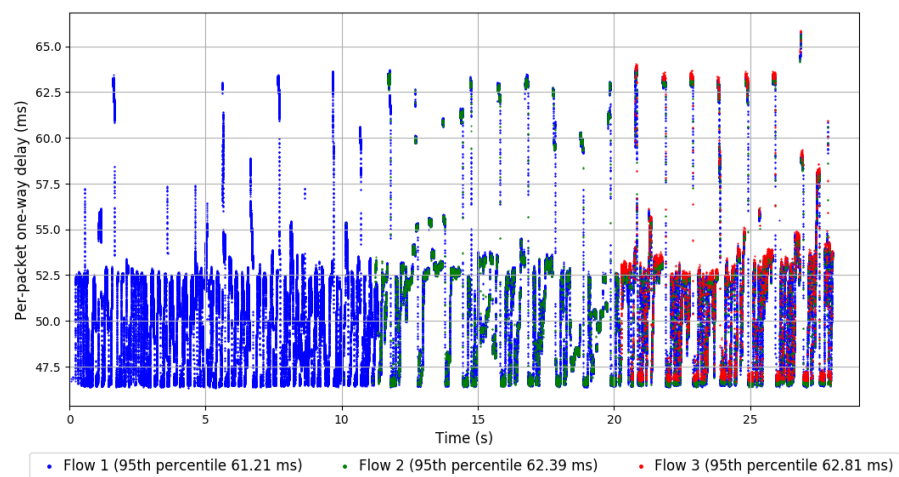
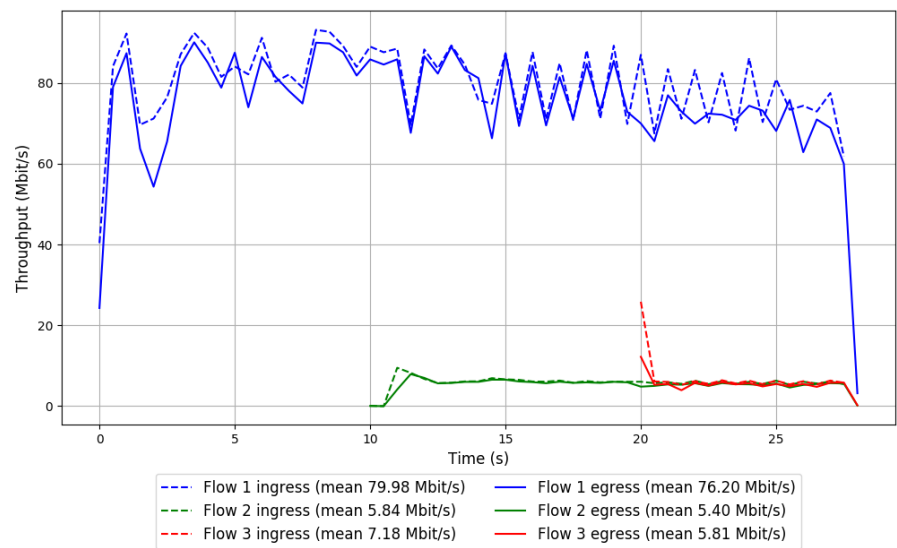
-- Flow 3:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 62.815 ms

Loss rate: 19.15%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-17 05:43:43

End at: 2018-01-17 05:44:13

Local clock offset: 2.747 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-01-17 07:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 254.636 ms

Loss rate: 4.82%

-- Flow 1:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 78.395 ms

Loss rate: 3.94%

-- Flow 2:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 255.099 ms

Loss rate: 8.94%

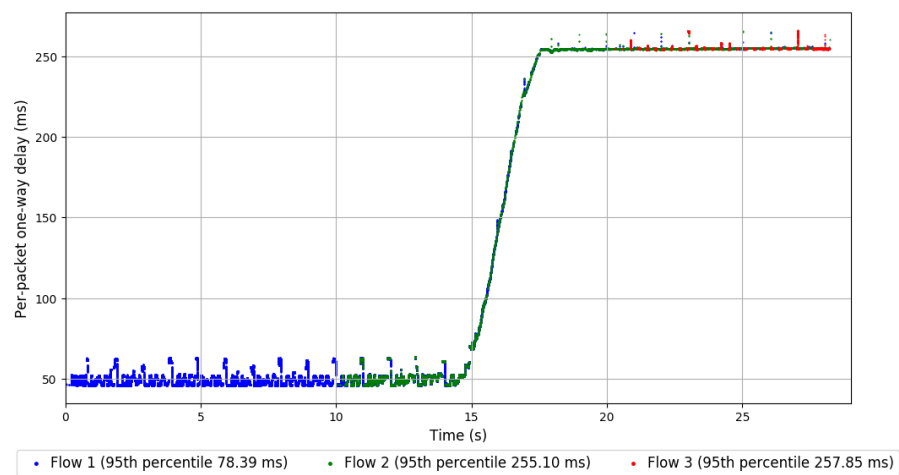
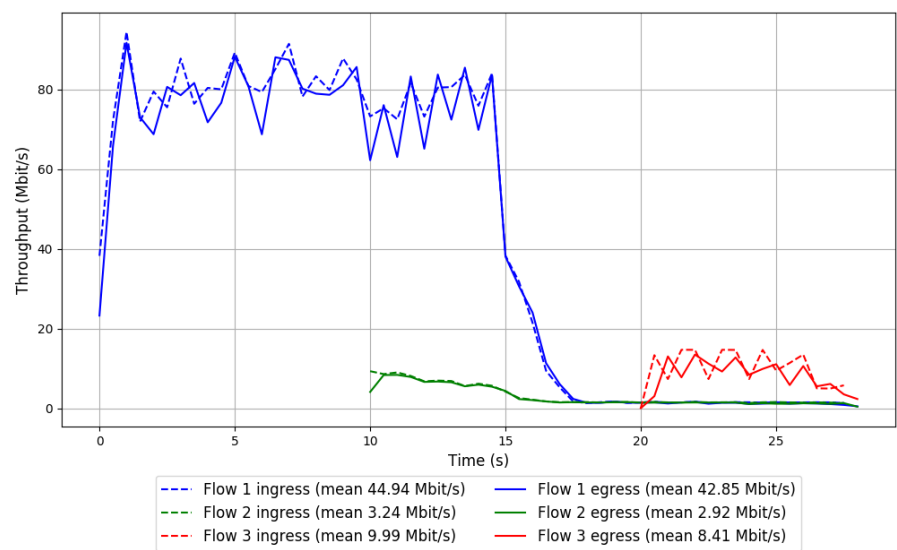
-- Flow 3:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 257.850 ms

Loss rate: 15.78%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-17 06:06:41

End at: 2018-01-17 06:07:11

Local clock offset: 2.067 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 61.184 ms

Loss rate: 4.18%

-- Flow 1:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 61.176 ms

Loss rate: 4.18%

-- Flow 2:

Average throughput: 257.48 Mbit/s

95th percentile per-packet one-way delay: 17524.863 ms

Loss rate: 0.00%

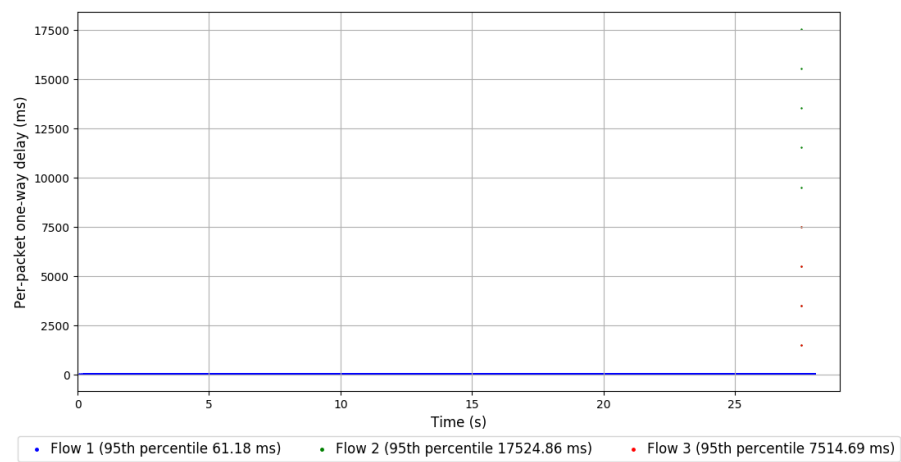
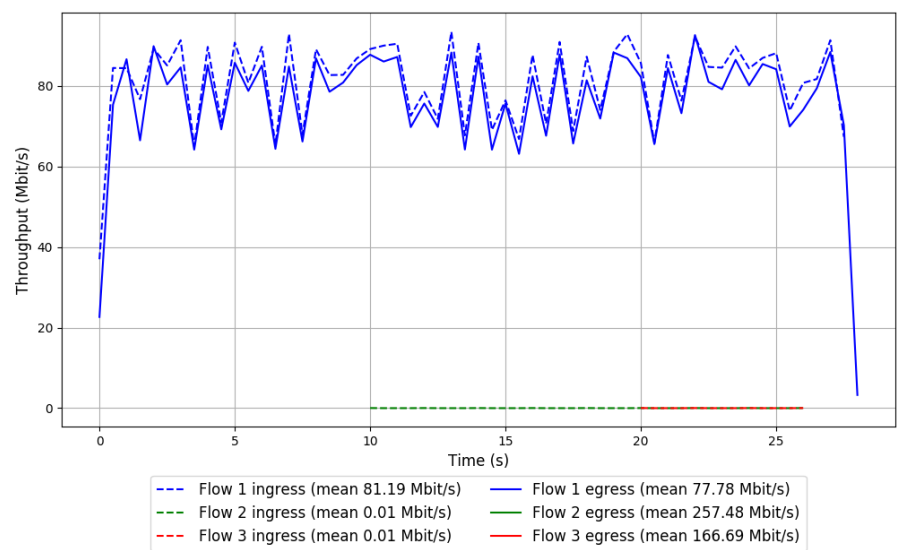
-- Flow 3:

Average throughput: 166.69 Mbit/s

95th percentile per-packet one-way delay: 7514.685 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

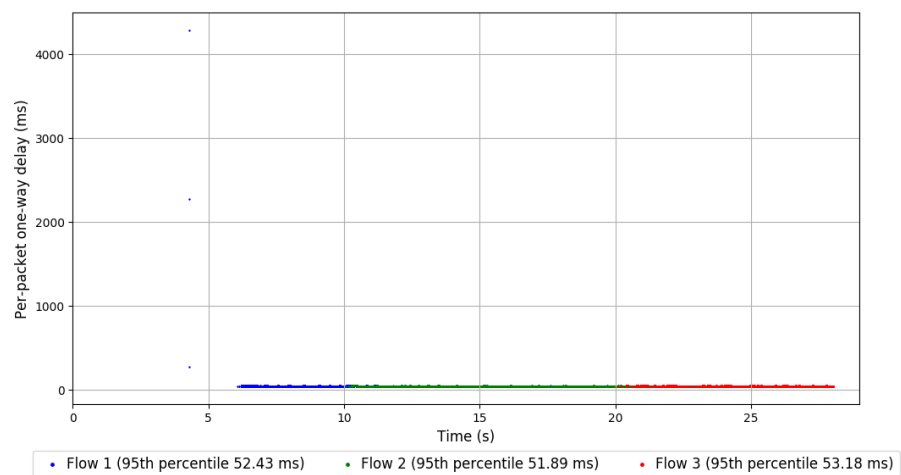
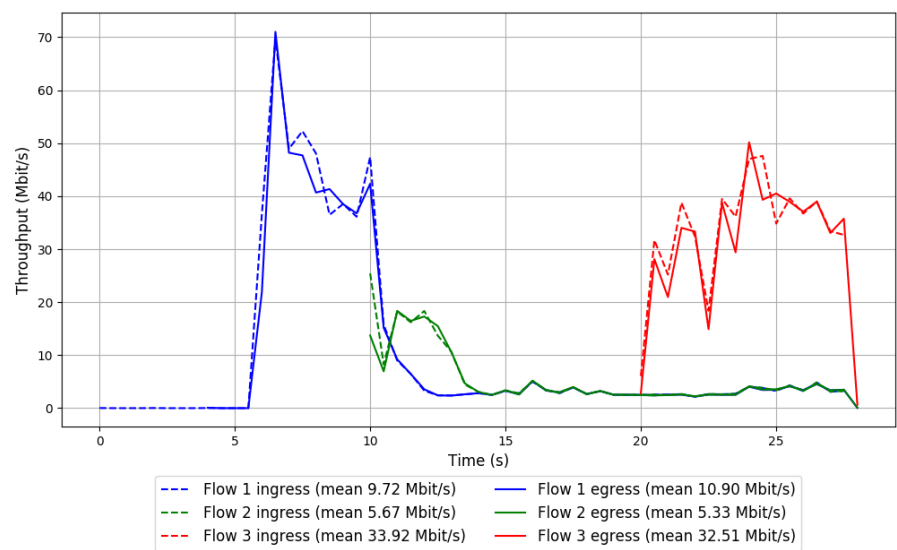
Start at: 2018-01-17 06:31:00

End at: 2018-01-17 06:31:30

Local clock offset: 2.079 ms

Remote clock offset: 2.577 ms

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

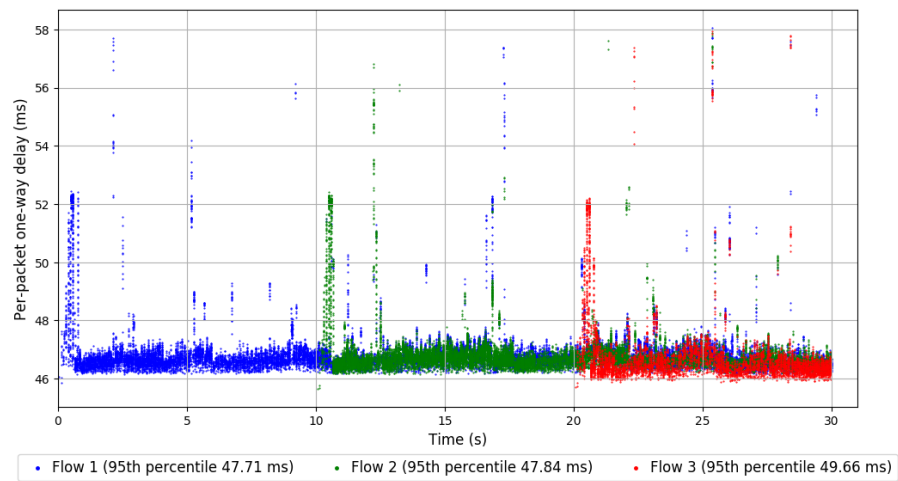
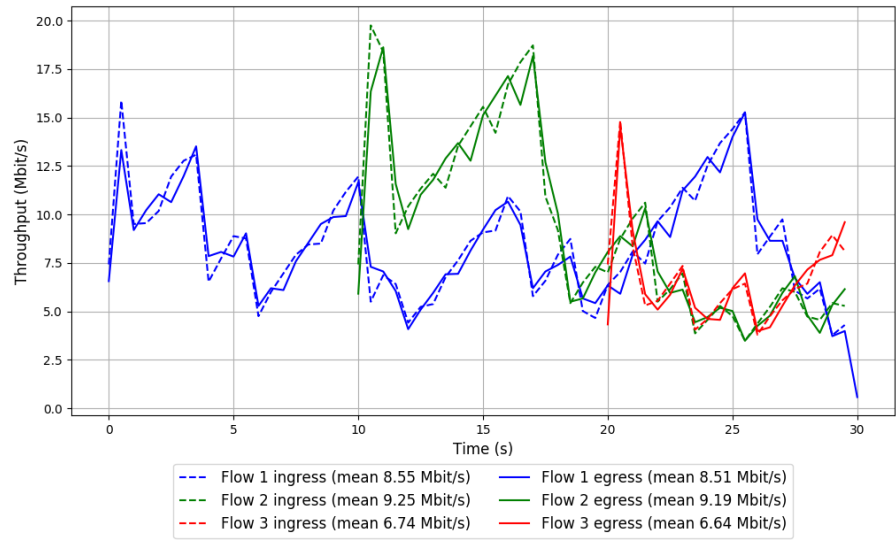


Run 1: Statistics of TCP Vegas

Start at: 2018-01-17 03:08:46
End at: 2018-01-17 03:09:16
Local clock offset: -0.222 ms
Remote clock offset: -2.844 ms

Below is generated by plot.py at 2018-01-17 07:18:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 47.984 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 47.709 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 9.19 Mbit/s
95th percentile per-packet one-way delay: 47.839 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 49.661 ms
Loss rate: 1.54%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-17 03:31:37

End at: 2018-01-17 03:32:07

Local clock offset: 0.436 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 48.942 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 48.942 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 48.863 ms

Loss rate: 0.84%

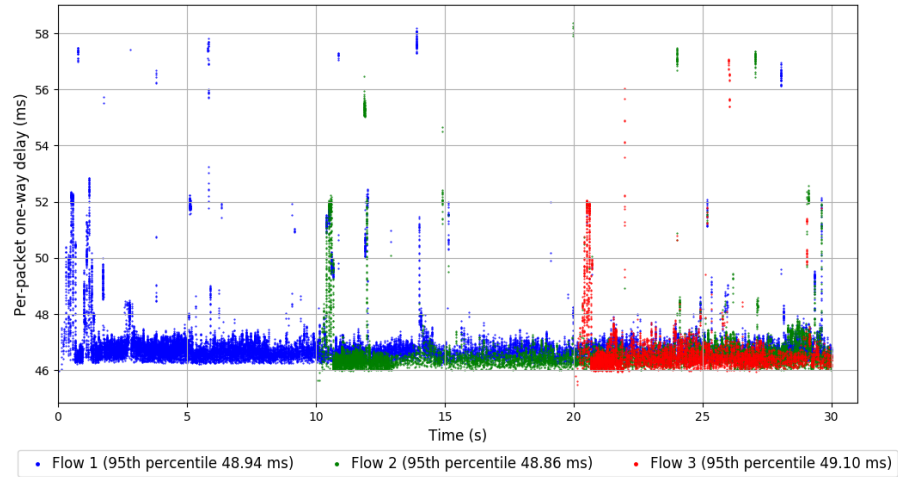
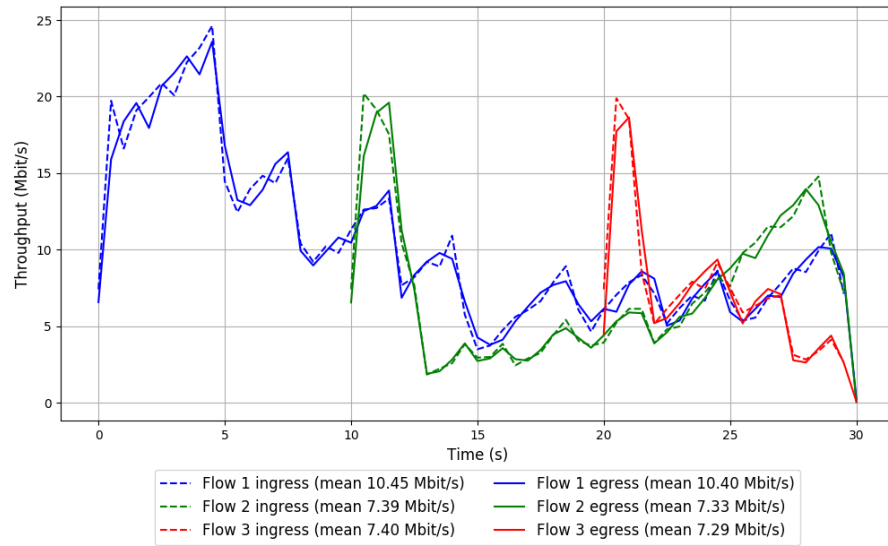
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 49.102 ms

Loss rate: 1.47%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-17 03:54:53

End at: 2018-01-17 03:55:23

Local clock offset: 1.136 ms

Remote clock offset: 3.033 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 48.962 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 48.953 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 9.96 Mbit/s

95th percentile per-packet one-way delay: 48.334 ms

Loss rate: 0.67%

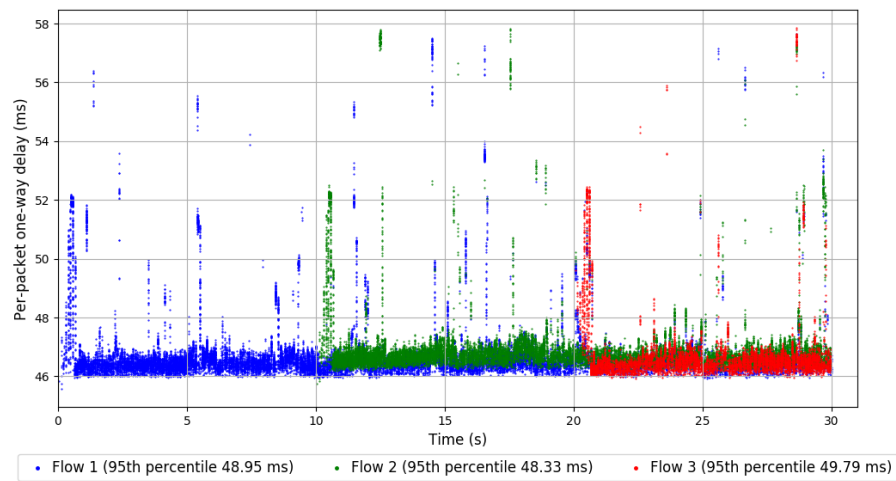
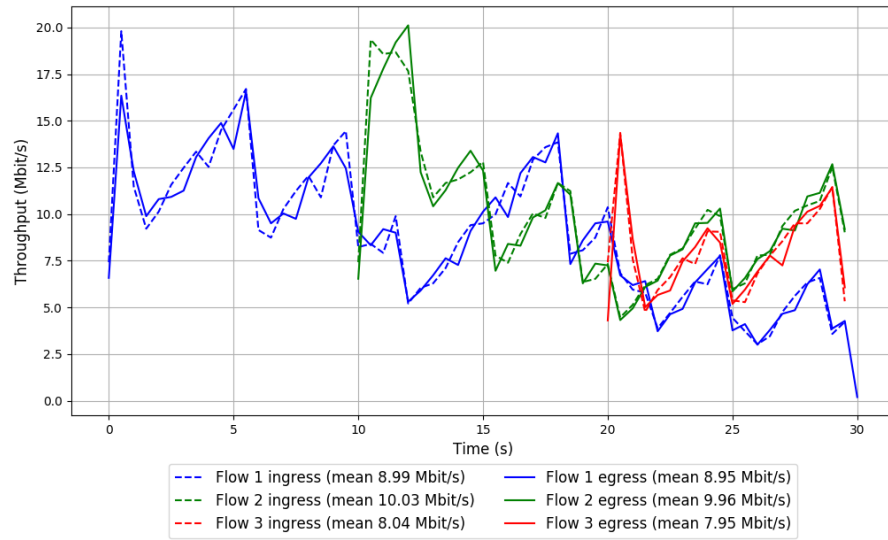
-- Flow 3:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 49.787 ms

Loss rate: 1.17%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-17 04:17:46

End at: 2018-01-17 04:18:16

Local clock offset: 1.859 ms

Remote clock offset: 5.407 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 49.156 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 48.593 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 48.965 ms

Loss rate: 0.86%

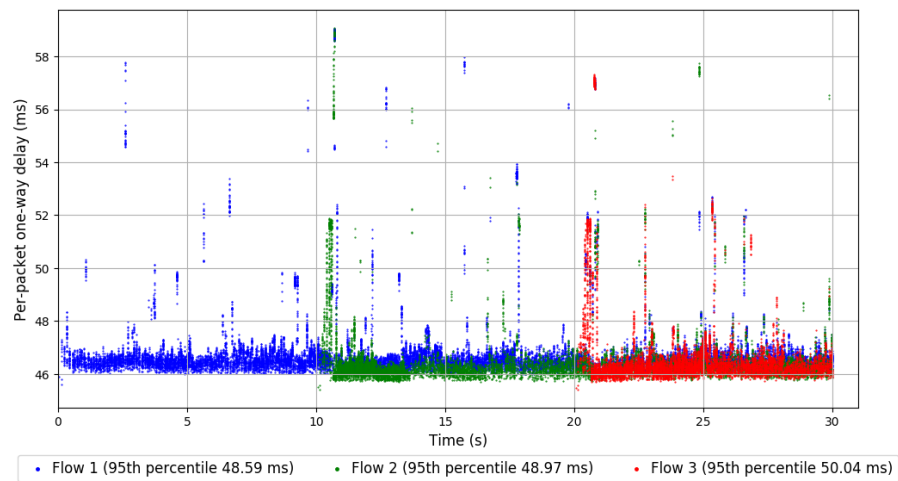
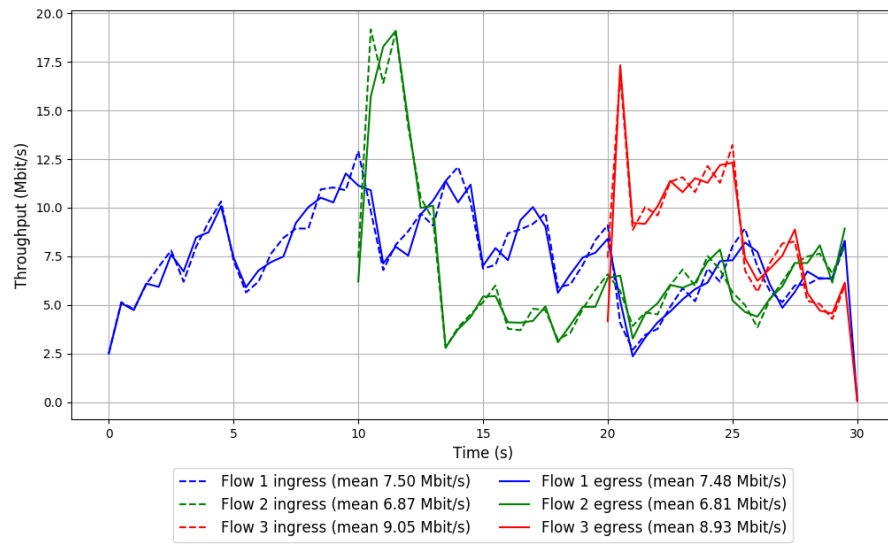
-- Flow 3:

Average throughput: 8.93 Mbit/s

95th percentile per-packet one-way delay: 50.041 ms

Loss rate: 1.26%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-17 04:46:32

End at: 2018-01-17 04:47:02

Local clock offset: 2.051 ms

Remote clock offset: 4.726 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 255.251 ms

Loss rate: 3.07%

-- Flow 1:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 255.013 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 255.512 ms

Loss rate: 6.47%

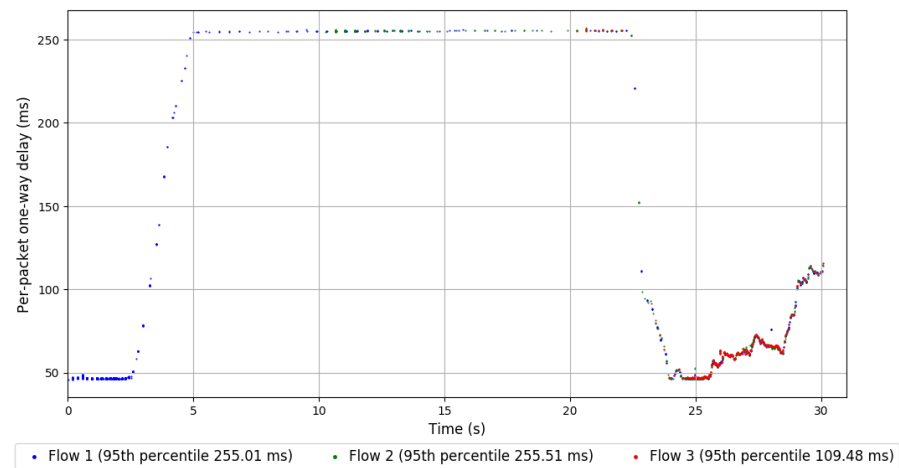
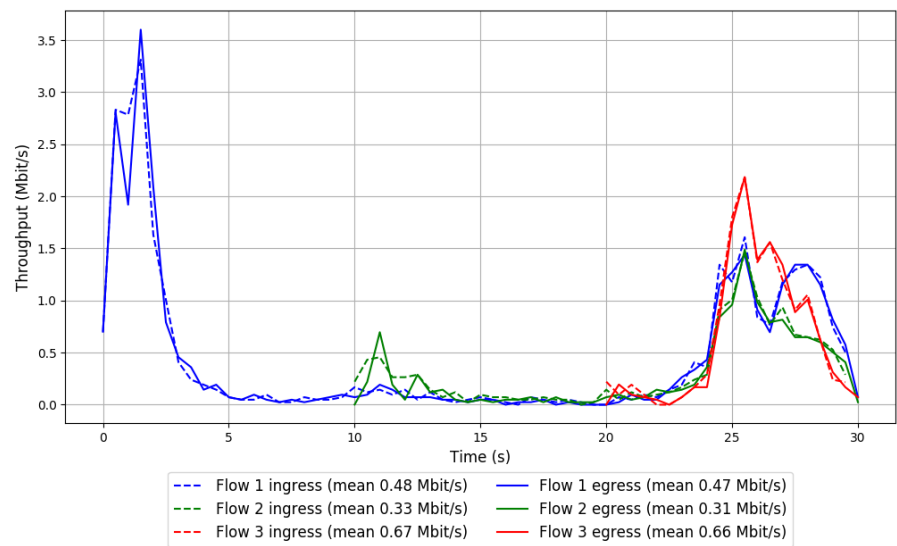
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 109.479 ms

Loss rate: 2.36%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-17 05:10:24

End at: 2018-01-17 05:10:54

Local clock offset: 2.583 ms

Remote clock offset: 2.596 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.87 Mbit/s

95th percentile per-packet one-way delay: 48.357 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 47.772 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 48.248 ms

Loss rate: 0.61%

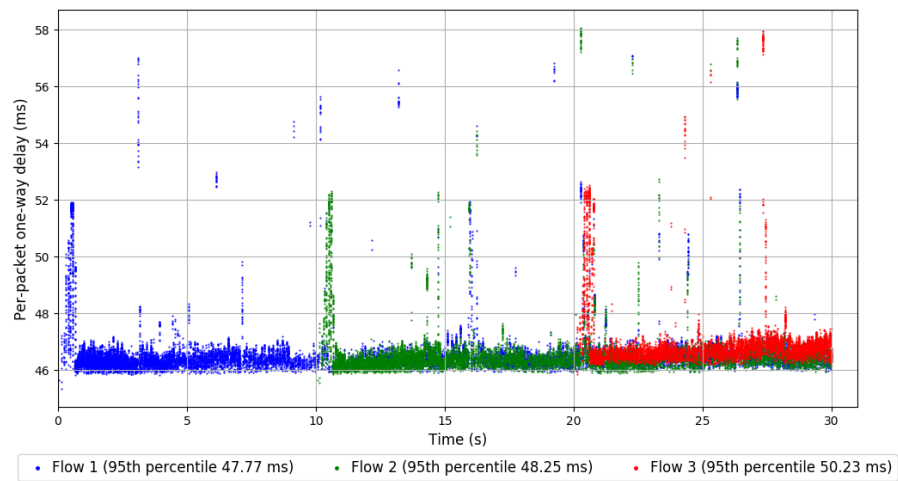
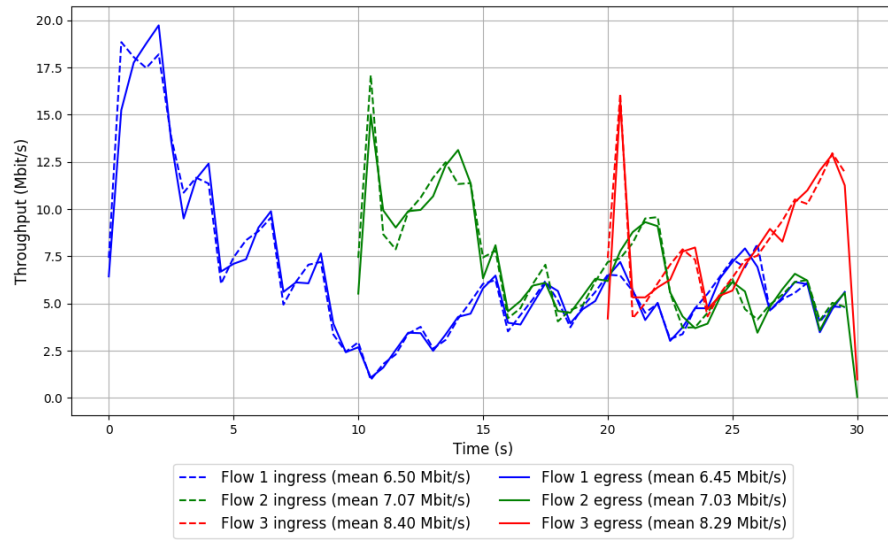
-- Flow 3:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 50.227 ms

Loss rate: 1.33%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-17 05:33:48

End at: 2018-01-17 05:34:18

Local clock offset: 2.602 ms

Remote clock offset: 0.383 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.86 Mbit/s

95th percentile per-packet one-way delay: 48.795 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 47.842 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 49.472 ms

Loss rate: 1.12%

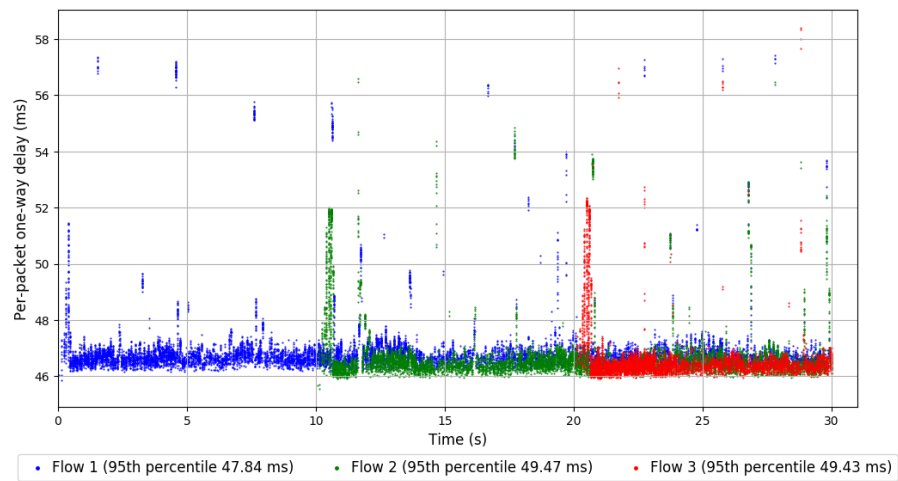
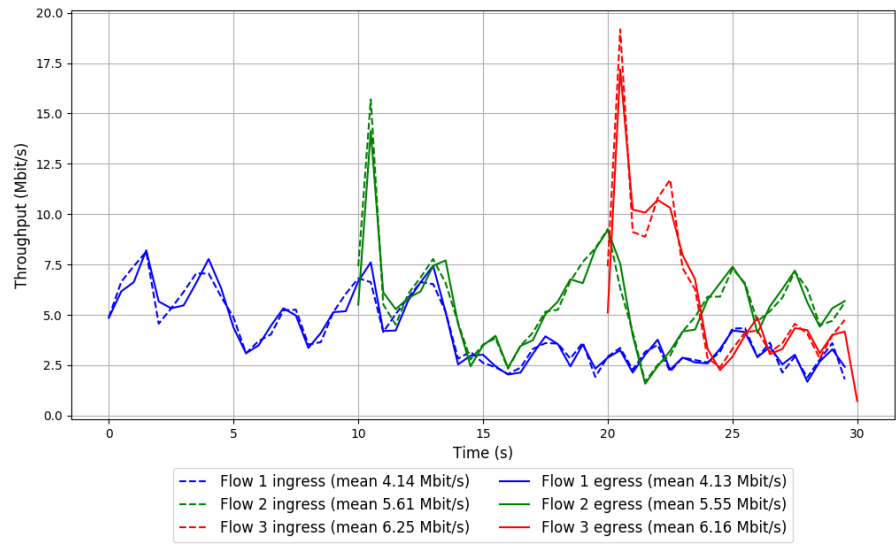
-- Flow 3:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 49.432 ms

Loss rate: 1.50%

Run 7: Report of TCP Vegas — Data Link

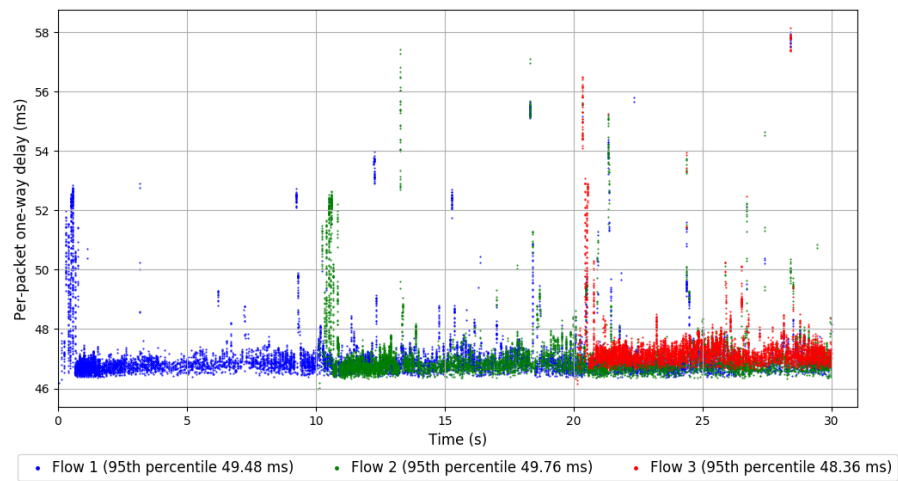
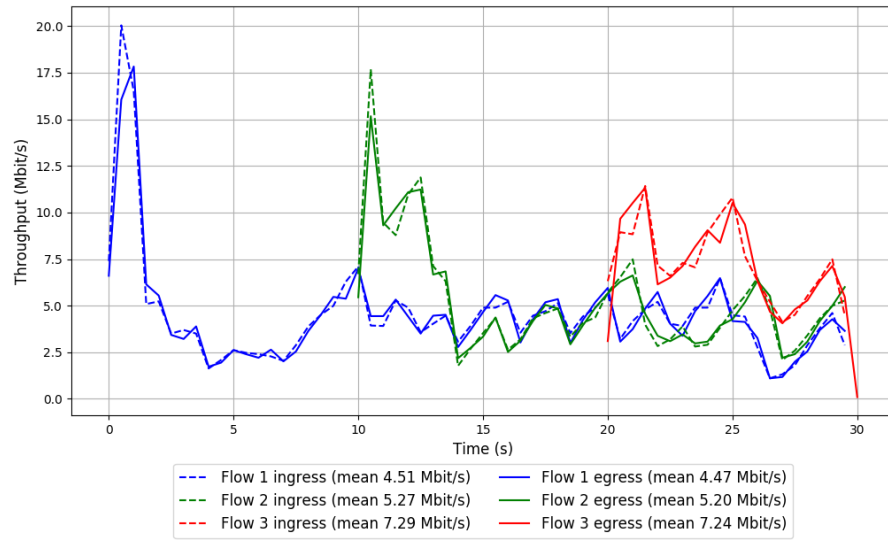


Run 8: Statistics of TCP Vegas

Start at: 2018-01-17 05:56:40
End at: 2018-01-17 05:57:10
Local clock offset: 1.953 ms
Remote clock offset: -0.501 ms

Below is generated by plot.py at 2018-01-17 07:18:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 49.326 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 49.481 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 49.764 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 48.358 ms
Loss rate: 0.70%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-17 06:19:35

End at: 2018-01-17 06:20:05

Local clock offset: 2.156 ms

Remote clock offset: 1.873 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 50.038 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 49.807 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 49.921 ms

Loss rate: 1.36%

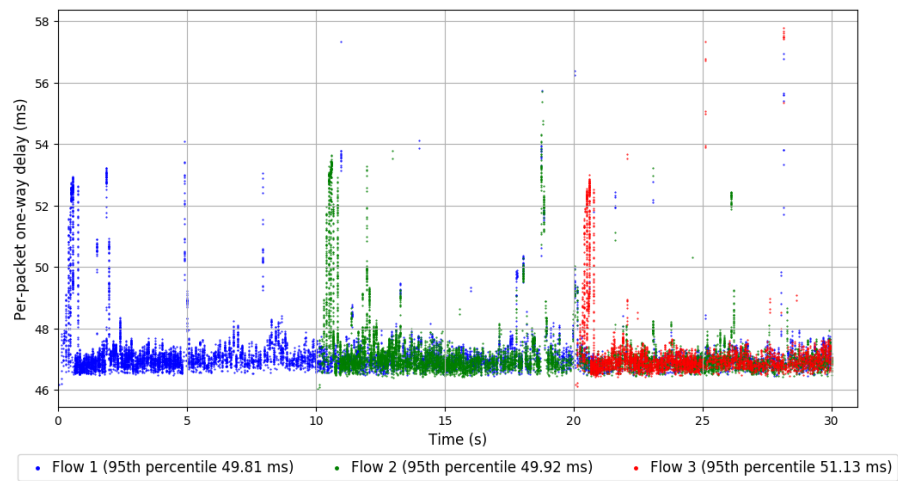
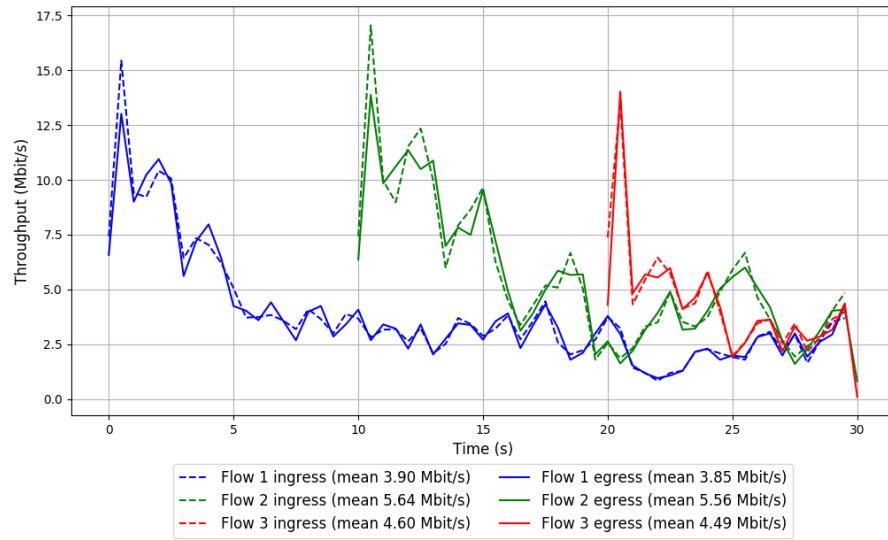
-- Flow 3:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 51.133 ms

Loss rate: 2.31%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-17 06:44:21

End at: 2018-01-17 06:44:51

Local clock offset: 2.22 ms

Remote clock offset: 3.559 ms

Below is generated by plot.py at 2018-01-17 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 47.676 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 48.050 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 47.404 ms

Loss rate: 0.04%

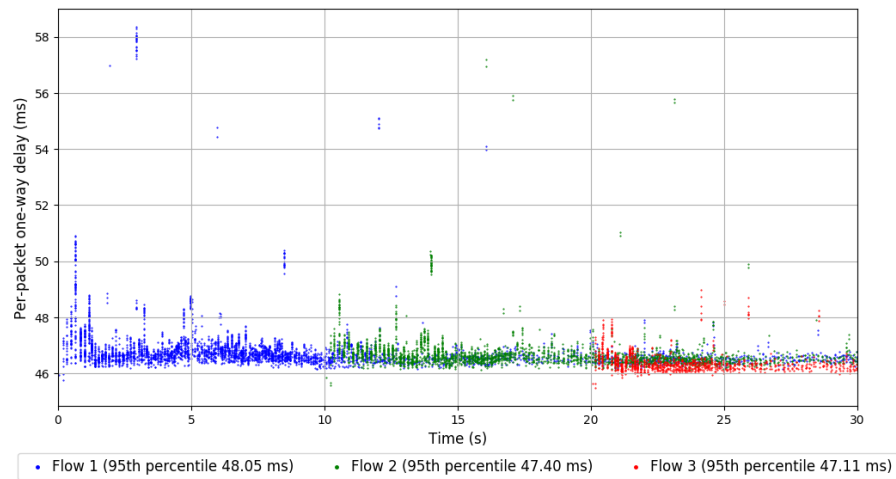
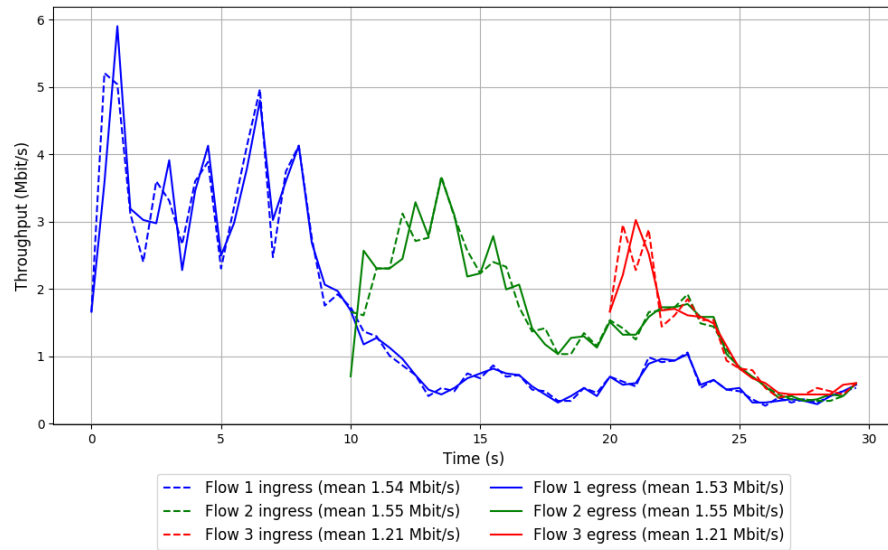
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 47.111 ms

Loss rate: 0.10%

Run 10: Report of TCP Vegas — Data Link

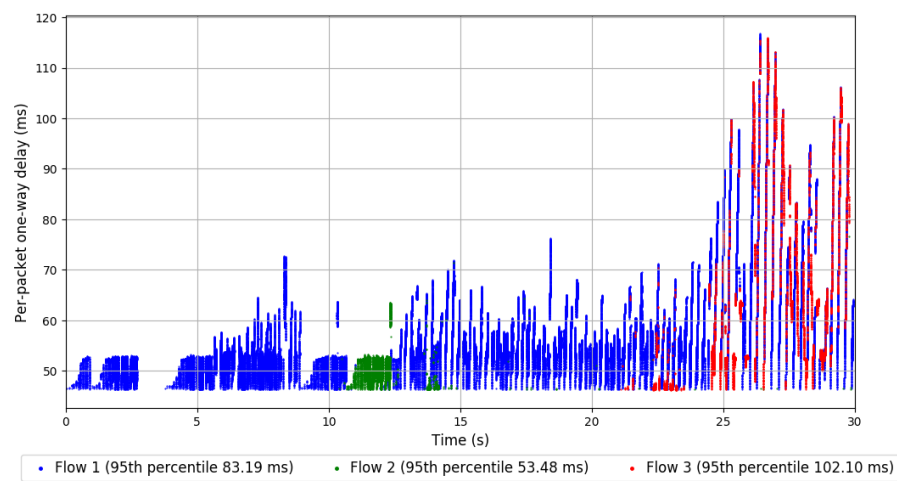
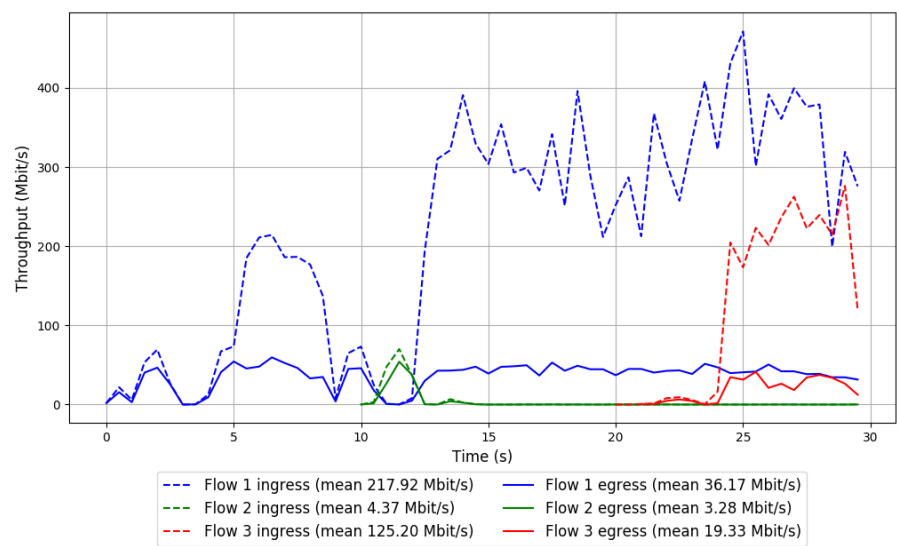


Run 1: Statistics of Verus

Start at: 2018-01-17 02:58:30
End at: 2018-01-17 02:59:00
Local clock offset: -0.812 ms
Remote clock offset: -4.329 ms

Below is generated by plot.py at 2018-01-17 07:19:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.92 Mbit/s
95th percentile per-packet one-way delay: 88.384 ms
Loss rate: 83.17%
-- Flow 1:
Average throughput: 36.17 Mbit/s
95th percentile per-packet one-way delay: 83.194 ms
Loss rate: 83.39%
-- Flow 2:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 53.476 ms
Loss rate: 24.83%
-- Flow 3:
Average throughput: 19.33 Mbit/s
95th percentile per-packet one-way delay: 102.096 ms
Loss rate: 86.11%

Run 1: Report of Verus — Data Link

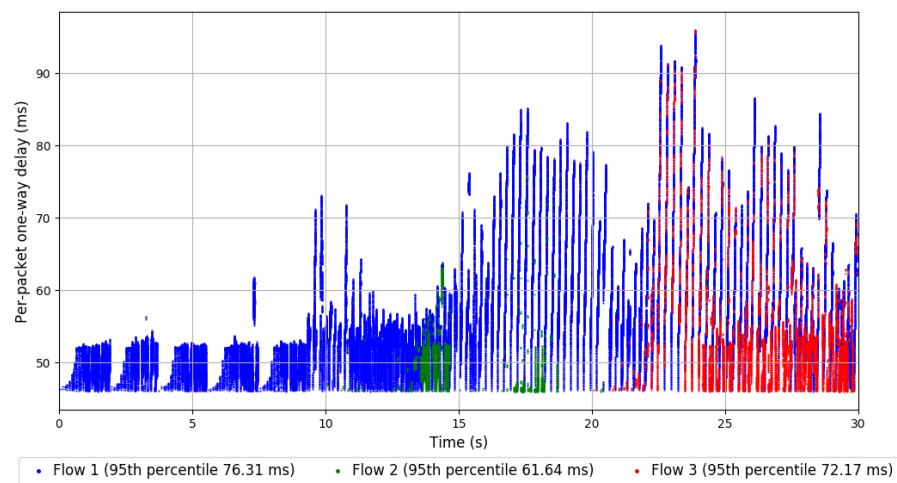
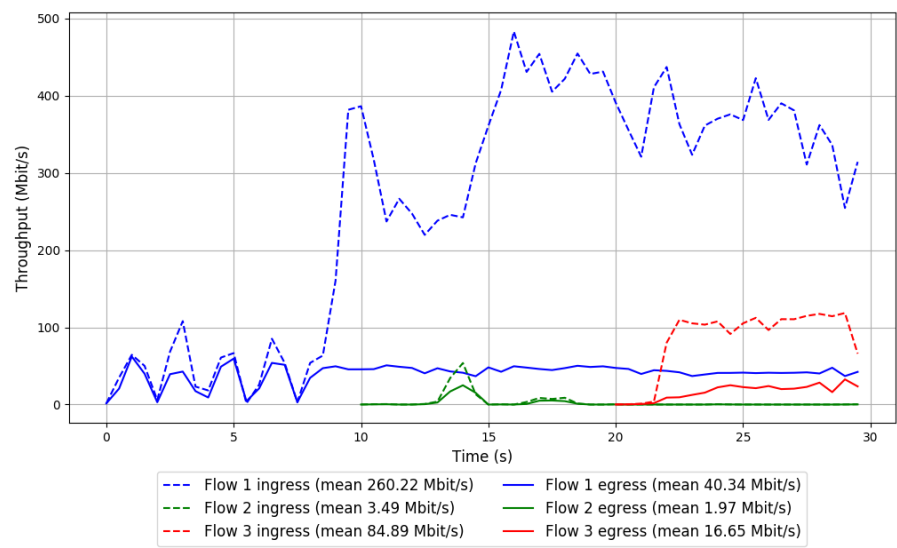


Run 2: Statistics of Verus

Start at: 2018-01-17 03:21:31
End at: 2018-01-17 03:22:01
Local clock offset: -0.01 ms
Remote clock offset: -1.257 ms

Below is generated by plot.py at 2018-01-17 07:19:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.13 Mbit/s
95th percentile per-packet one-way delay: 75.786 ms
Loss rate: 83.77%
-- Flow 1:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 76.311 ms
Loss rate: 84.49%
-- Flow 2:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 61.637 ms
Loss rate: 43.53%
-- Flow 3:
Average throughput: 16.65 Mbit/s
95th percentile per-packet one-way delay: 72.167 ms
Loss rate: 80.36%

Run 2: Report of Verus — Data Link

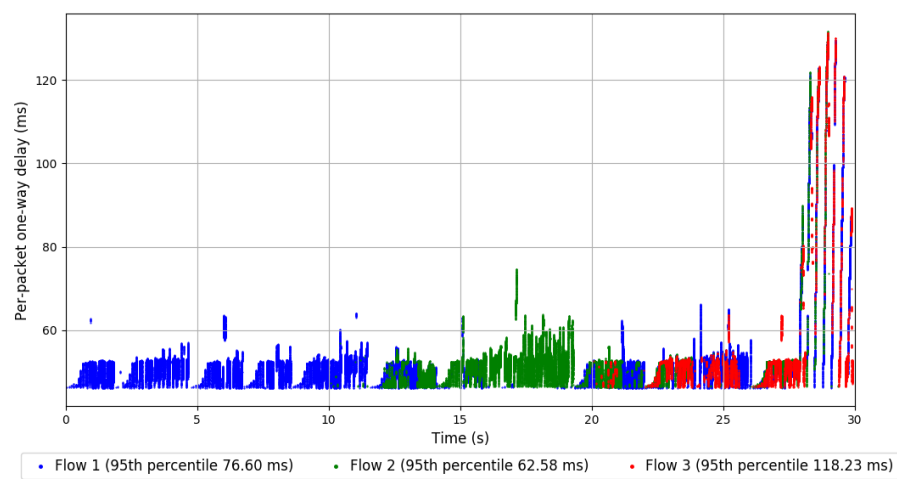
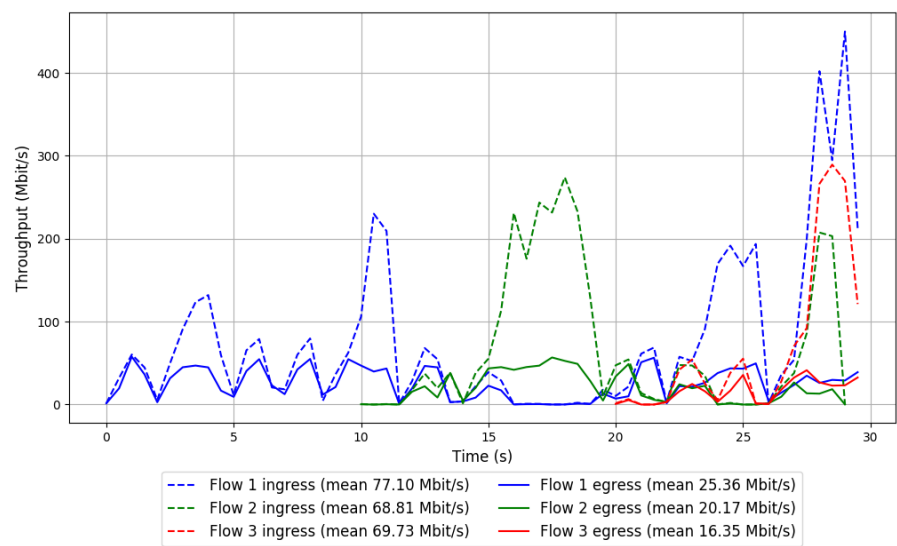


Run 3: Statistics of Verus

Start at: 2018-01-17 03:44:14
End at: 2018-01-17 03:44:44
Local clock offset: 0.731 ms
Remote clock offset: 1.68 ms

Below is generated by plot.py at 2018-01-17 07:19:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 83.992 ms
Loss rate: 69.73%
-- Flow 1:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 76.603 ms
Loss rate: 67.06%
-- Flow 2:
Average throughput: 20.17 Mbit/s
95th percentile per-packet one-way delay: 62.582 ms
Loss rate: 70.82%
-- Flow 3:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 118.234 ms
Loss rate: 76.56%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-17 04:07:36

End at: 2018-01-17 04:08:06

Local clock offset: 1.077 ms

Remote clock offset: 4.308 ms

Below is generated by plot.py at 2018-01-17 07:19:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 82.114 ms

Loss rate: 82.36%

-- Flow 1:

Average throughput: 26.88 Mbit/s

95th percentile per-packet one-way delay: 75.794 ms

Loss rate: 82.00%

-- Flow 2:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 57.931 ms

Loss rate: 48.97%

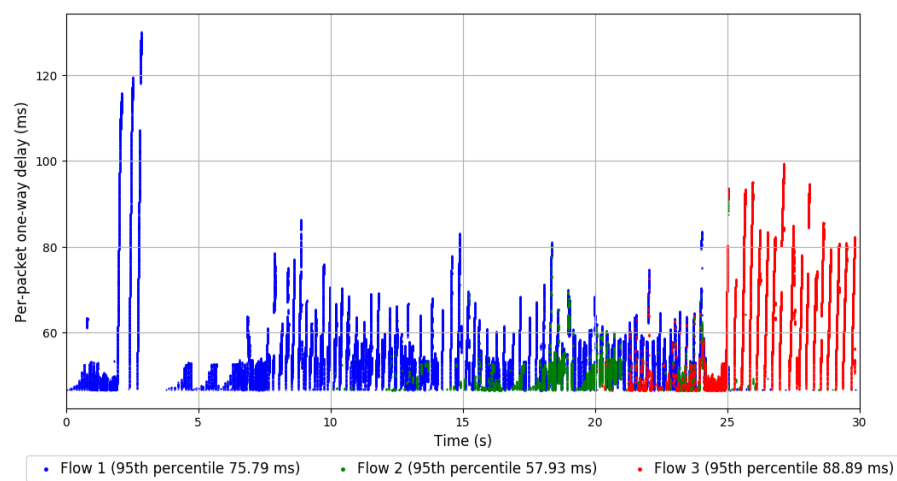
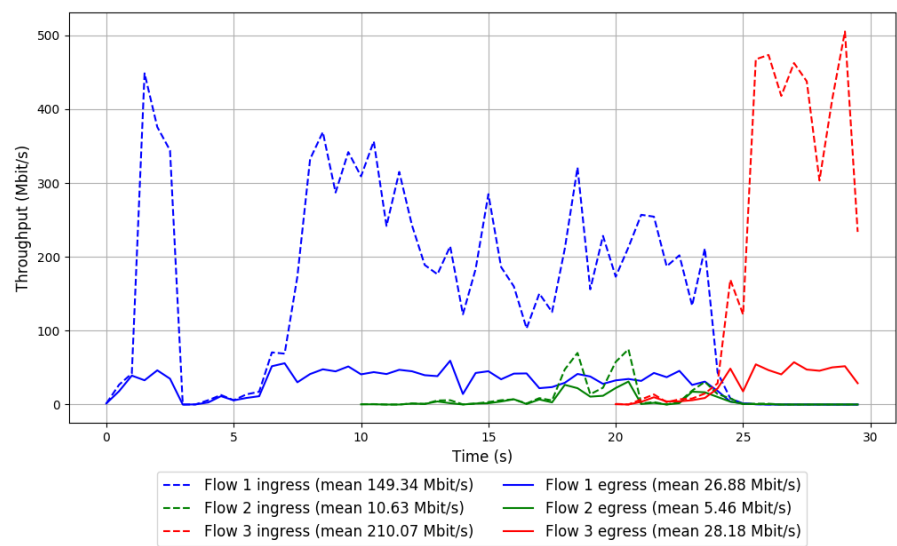
-- Flow 3:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 88.889 ms

Loss rate: 86.58%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-17 04:30:27

End at: 2018-01-17 04:30:57

Local clock offset: 1.711 ms

Remote clock offset: 5.758 ms

Below is generated by plot.py at 2018-01-17 07:19:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.97 Mbit/s

95th percentile per-packet one-way delay: 107.109 ms

Loss rate: 86.25%

-- Flow 1:

Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 107.553 ms

Loss rate: 87.31%

-- Flow 2:

Average throughput: 9.68 Mbit/s

95th percentile per-packet one-way delay: 101.671 ms

Loss rate: 63.45%

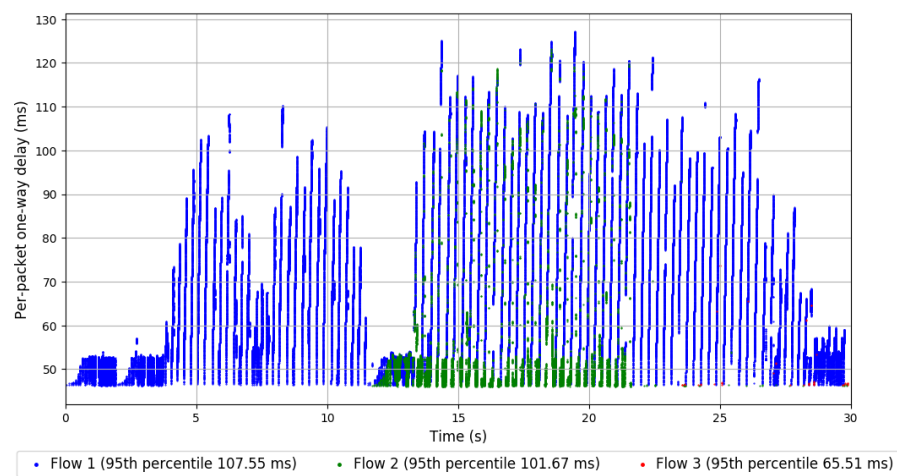
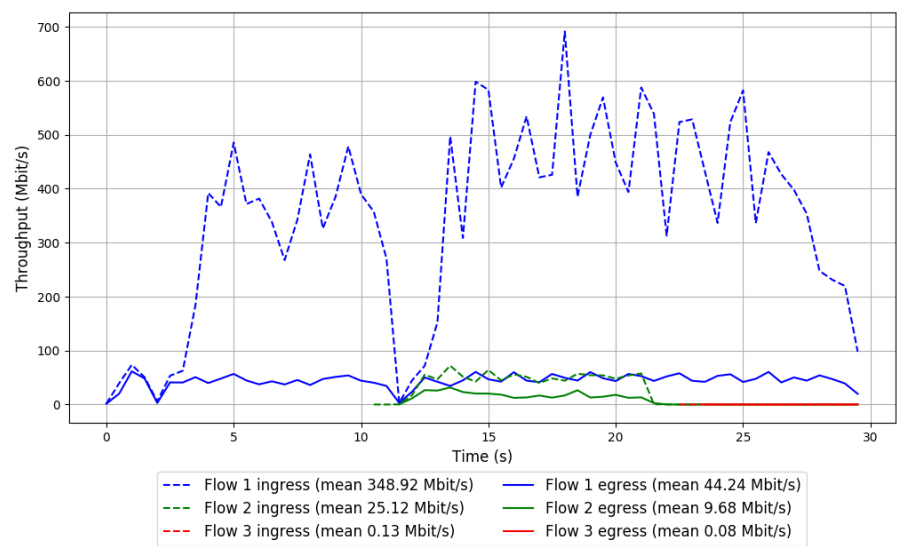
-- Flow 3:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 65.507 ms

Loss rate: 46.99%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-17 04:59:57

End at: 2018-01-17 05:00:27

Local clock offset: 2.223 ms

Remote clock offset: 3.975 ms

Below is generated by plot.py at 2018-01-17 07:19:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.38 Mbit/s

95th percentile per-packet one-way delay: 107.534 ms

Loss rate: 85.42%

-- Flow 1:

Average throughput: 35.94 Mbit/s

95th percentile per-packet one-way delay: 109.696 ms

Loss rate: 86.05%

-- Flow 2:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 73.569 ms

Loss rate: 82.63%

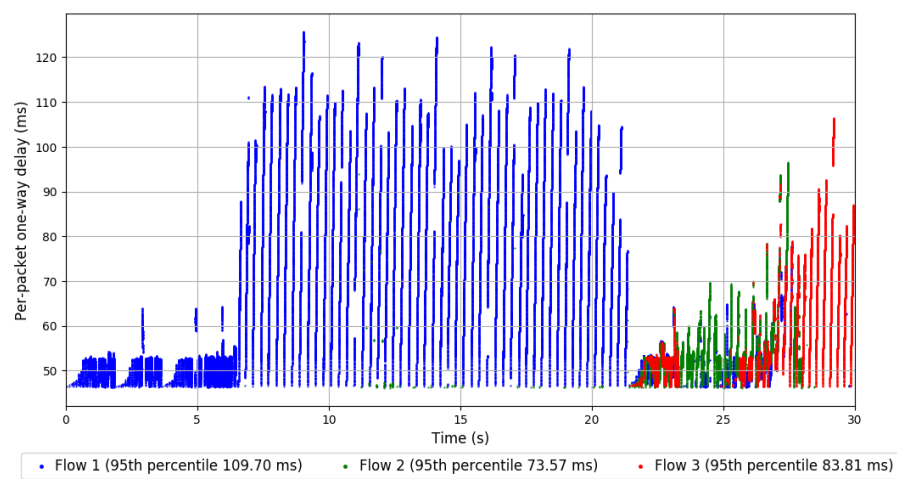
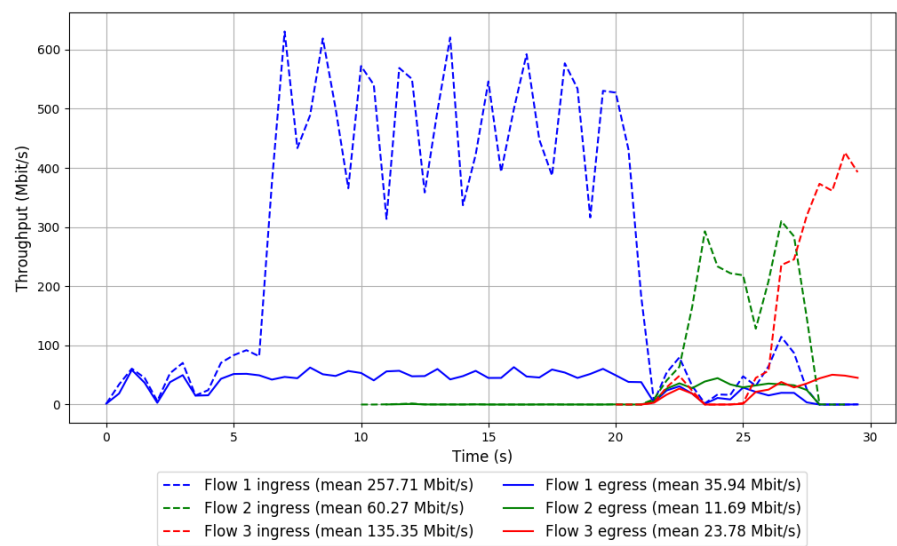
-- Flow 3:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 83.806 ms

Loss rate: 84.22%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-17 05:23:35

End at: 2018-01-17 05:24:05

Local clock offset: 2.36 ms

Remote clock offset: 1.11 ms

Below is generated by plot.py at 2018-01-17 07:19:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.28 Mbit/s

95th percentile per-packet one-way delay: 96.763 ms

Loss rate: 76.96%

-- Flow 1:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 113.116 ms

Loss rate: 61.29%

-- Flow 2:

Average throughput: 22.57 Mbit/s

95th percentile per-packet one-way delay: 62.189 ms

Loss rate: 65.52%

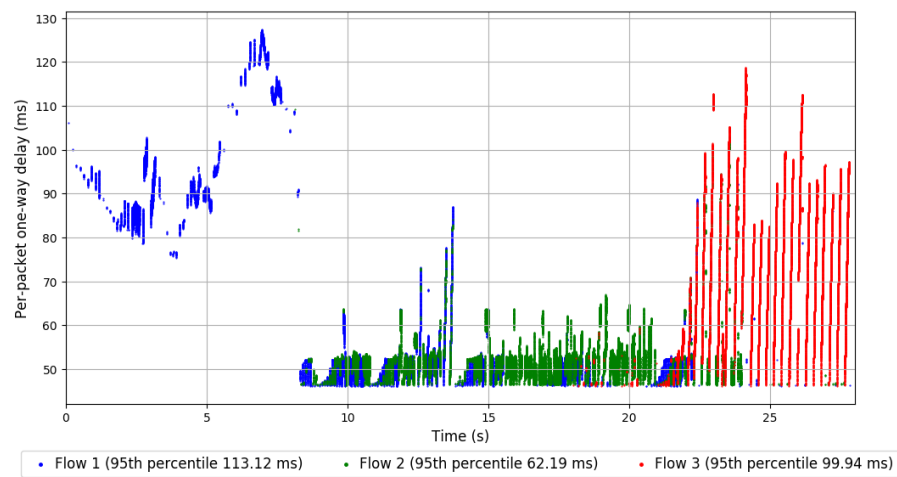
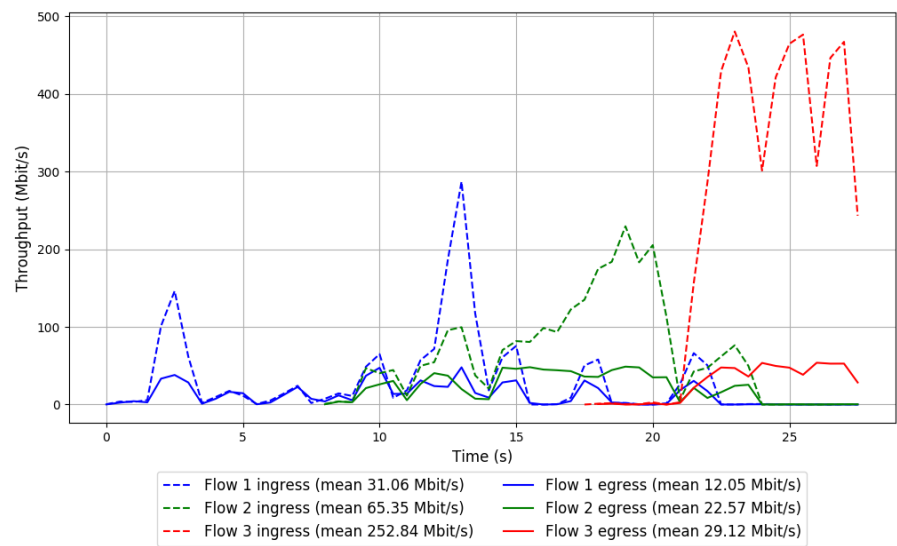
-- Flow 3:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 99.942 ms

Loss rate: 88.42%

Run 7: Report of Verus — Data Link

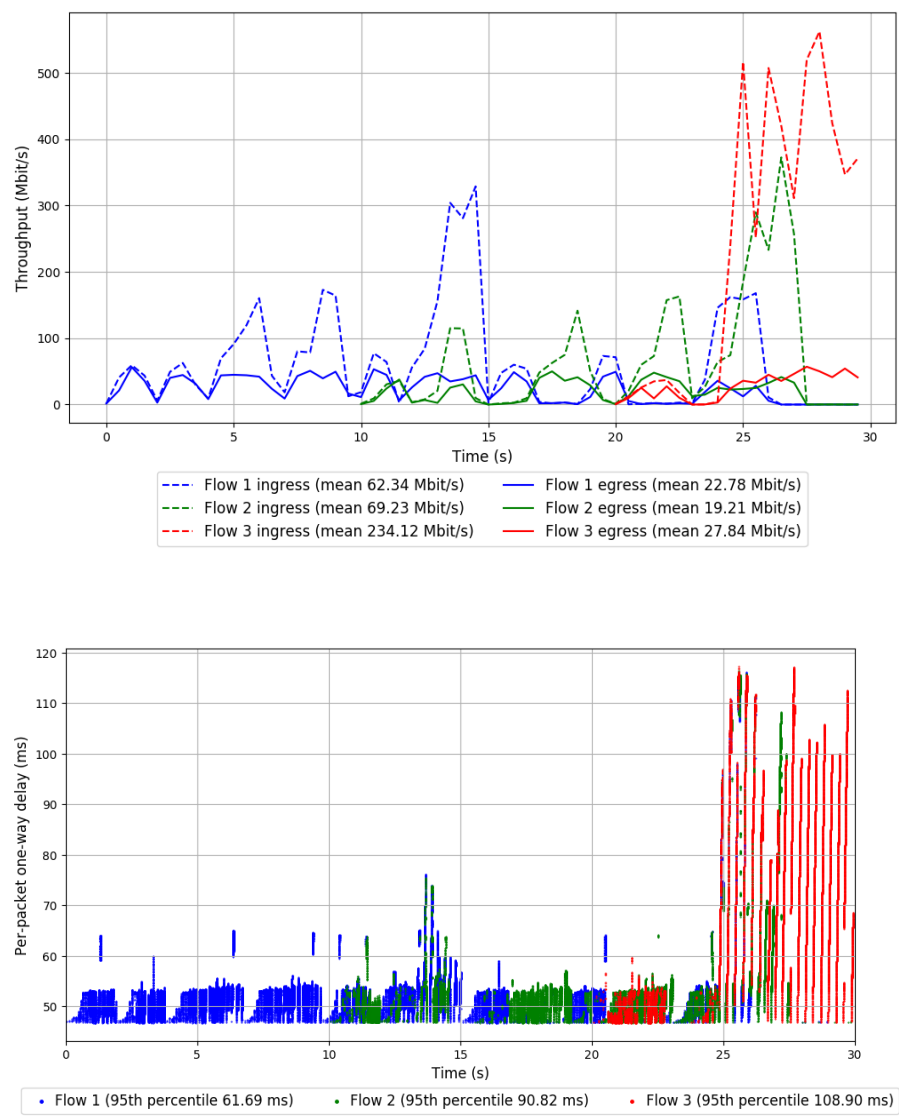


Run 8: Statistics of Verus

Start at: 2018-01-17 05:46:16
End at: 2018-01-17 05:46:46
Local clock offset: 2.024 ms
Remote clock offset: -0.466 ms

Below is generated by plot.py at 2018-01-17 07:19:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.64 Mbit/s
95th percentile per-packet one-way delay: 95.552 ms
Loss rate: 75.88%
-- Flow 1:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 61.694 ms
Loss rate: 63.44%
-- Flow 2:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 90.820 ms
Loss rate: 72.25%
-- Flow 3:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 108.899 ms
Loss rate: 88.08%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-17 06:09:13

End at: 2018-01-17 06:09:43

Local clock offset: 2.653 ms

Remote clock offset: 0.804 ms

Below is generated by plot.py at 2018-01-17 07:19:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.90 Mbit/s

95th percentile per-packet one-way delay: 60.030 ms

Loss rate: 64.71%

-- Flow 1:

Average throughput: 28.07 Mbit/s

95th percentile per-packet one-way delay: 60.465 ms

Loss rate: 68.21%

-- Flow 2:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 58.135 ms

Loss rate: 53.60%

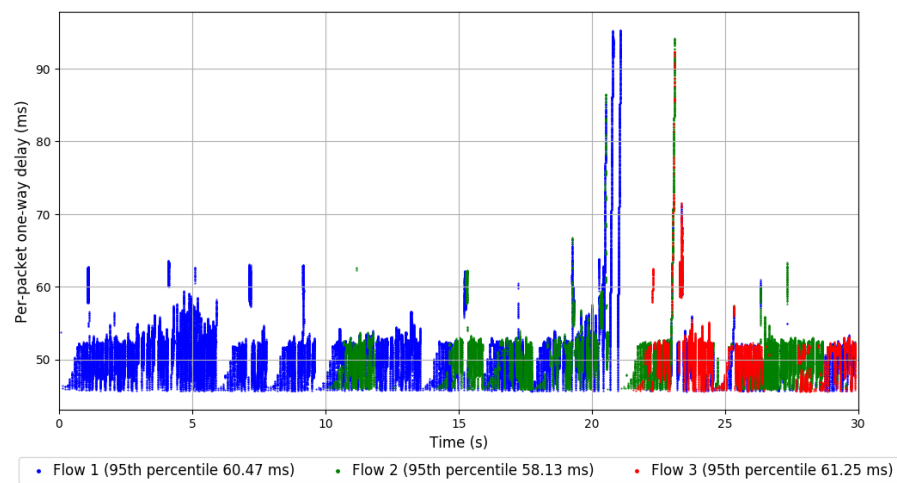
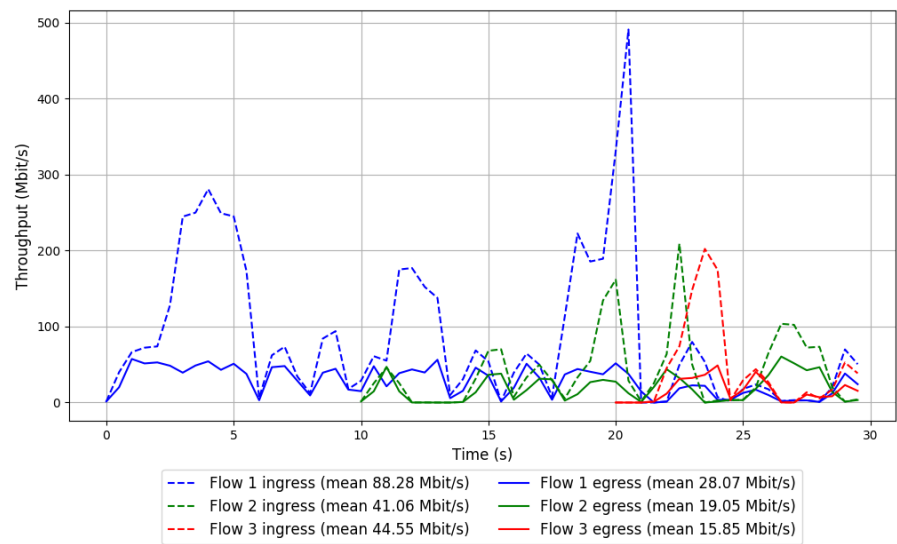
-- Flow 3:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 61.250 ms

Loss rate: 64.40%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-17 06:33:30

End at: 2018-01-17 06:34:00

Local clock offset: 1.771 ms

Remote clock offset: 2.806 ms

Below is generated by plot.py at 2018-01-17 07:19:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 87.756 ms

Loss rate: 80.27%

-- Flow 1:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 61.561 ms

Loss rate: 53.17%

-- Flow 2:

Average throughput: 33.21 Mbit/s

95th percentile per-packet one-way delay: 90.529 ms

Loss rate: 84.18%

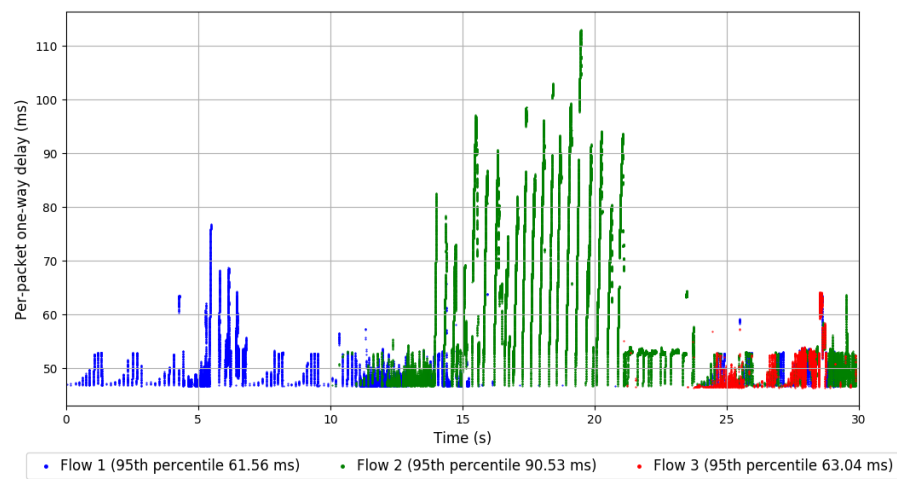
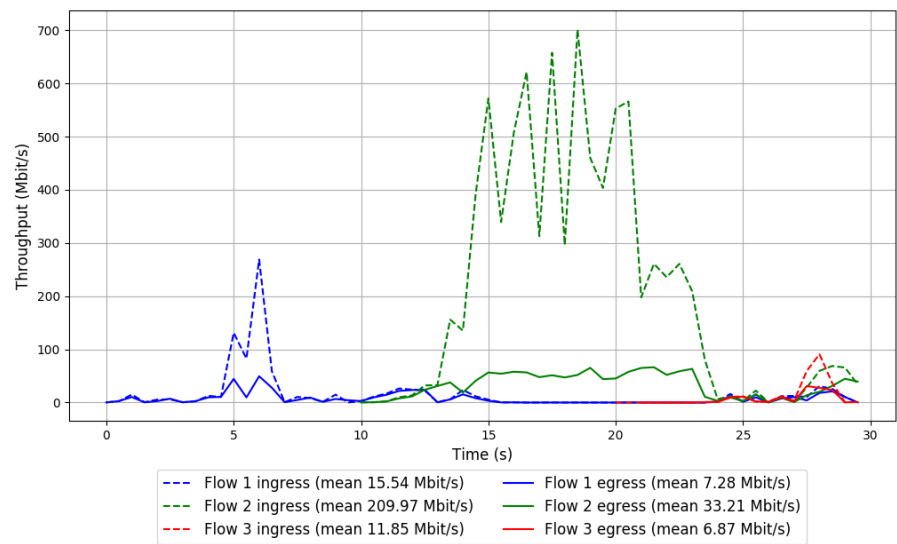
-- Flow 3:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 63.043 ms

Loss rate: 47.78%

Run 10: Report of Verus — Data Link

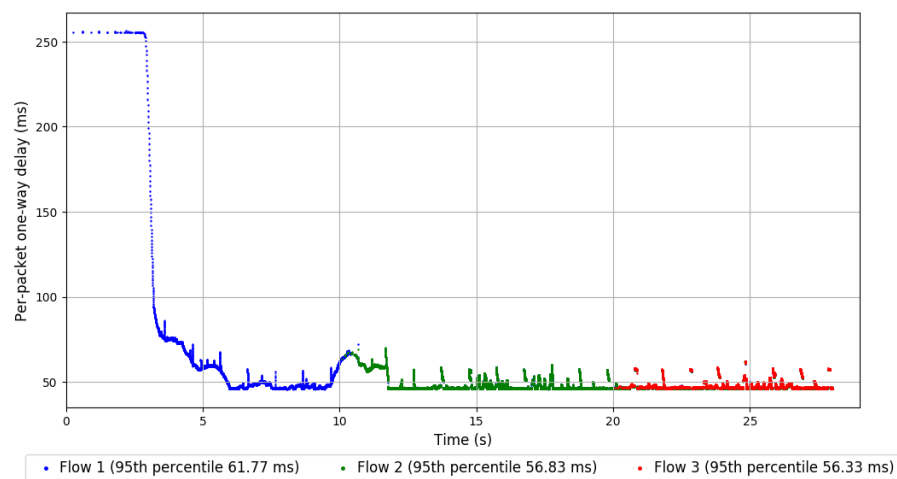
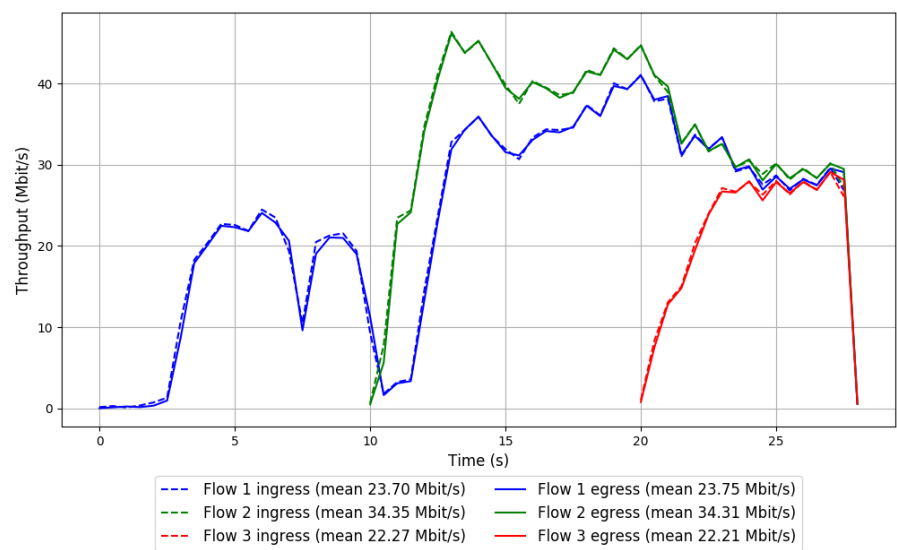


Run 1: Statistics of Copa

Start at: 2018-01-17 02:59:51
End at: 2018-01-17 03:00:21
Local clock offset: -0.39 ms
Remote clock offset: -4.134 ms

Below is generated by plot.py at 2018-01-17 07:20:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.27 Mbit/s
95th percentile per-packet one-way delay: 58.198 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 61.770 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 34.31 Mbit/s
95th percentile per-packet one-way delay: 56.832 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 22.21 Mbit/s
95th percentile per-packet one-way delay: 56.327 ms
Loss rate: 0.31%

Run 1: Report of Copa — Data Link

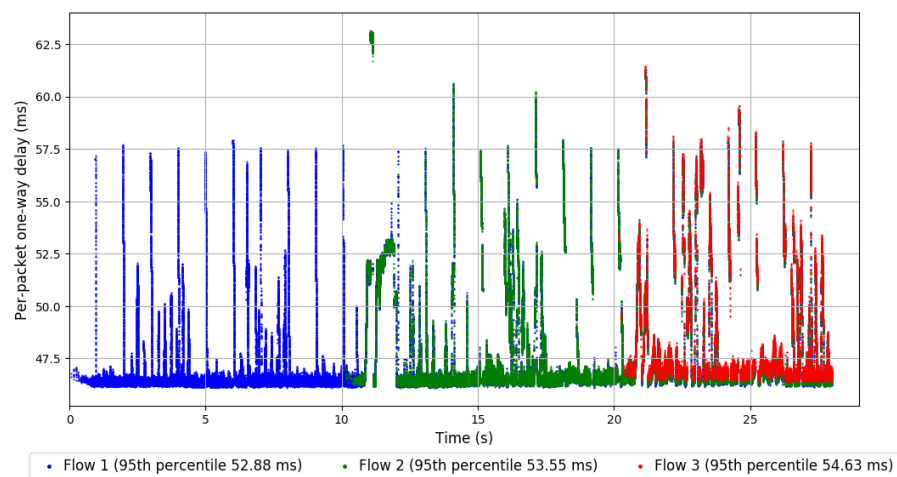
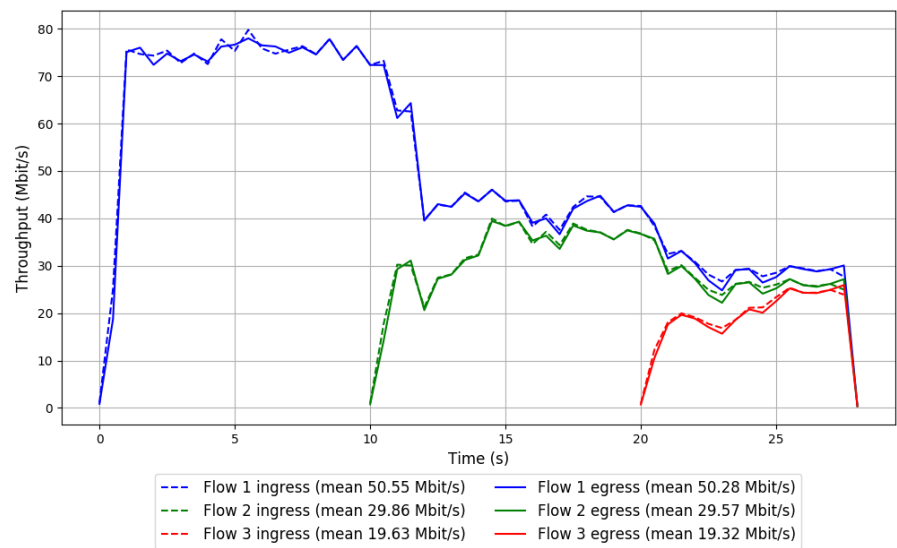


Run 2: Statistics of Copa

Start at: 2018-01-17 03:22:50
End at: 2018-01-17 03:23:20
Local clock offset: -0.037 ms
Remote clock offset: -1.028 ms

Below is generated by plot.py at 2018-01-17 07:20:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.75 Mbit/s
95th percentile per-packet one-way delay: 53.043 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 52.879 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 29.57 Mbit/s
95th percentile per-packet one-way delay: 53.548 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 19.32 Mbit/s
95th percentile per-packet one-way delay: 54.633 ms
Loss rate: 1.61%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-17 03:45:29

End at: 2018-01-17 03:45:59

Local clock offset: 0.547 ms

Remote clock offset: 1.899 ms

Below is generated by plot.py at 2018-01-17 07:20:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.10 Mbit/s

95th percentile per-packet one-way delay: 255.679 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 34.17 Mbit/s

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

Loss rate: 0.27%

-- Flow 2:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 254.060 ms

Loss rate: 1.85%

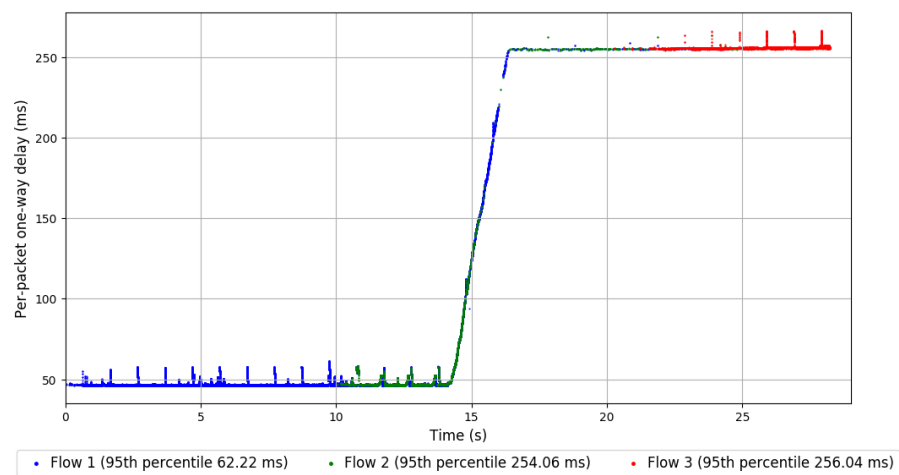
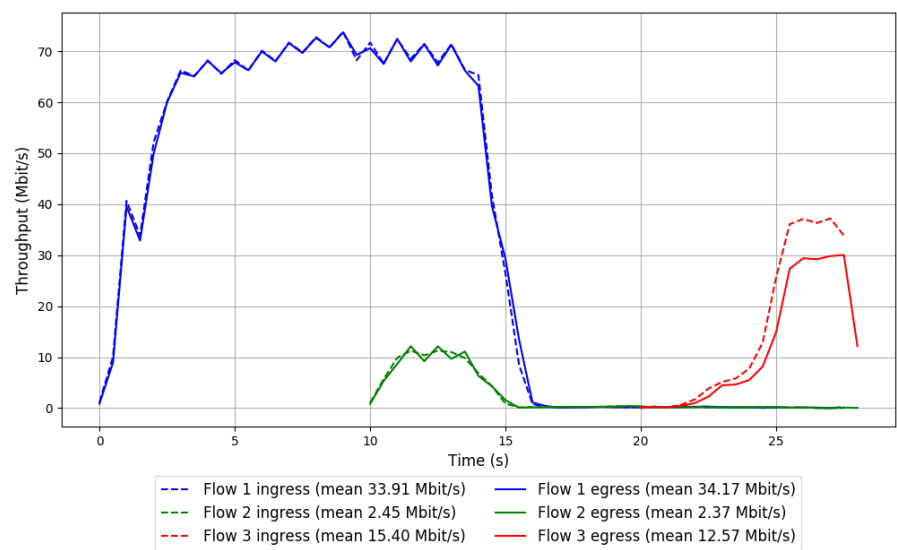
-- Flow 3:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 256.039 ms

Loss rate: 18.33%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-17 04:08:53

End at: 2018-01-17 04:09:23

Local clock offset: 1.607 ms

Remote clock offset: 4.426 ms

Below is generated by plot.py at 2018-01-17 07:20:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 52.082 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 24.49 Mbit/s

95th percentile per-packet one-way delay: 52.203 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 52.140 ms

Loss rate: 0.28%

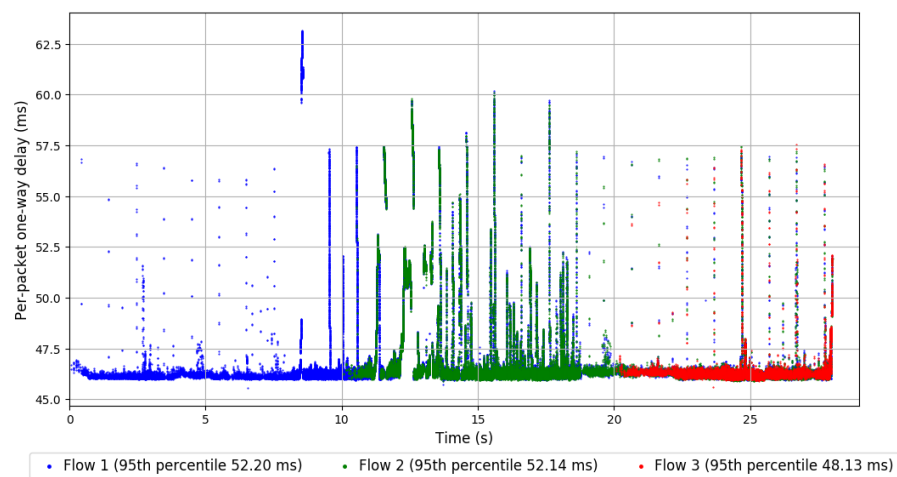
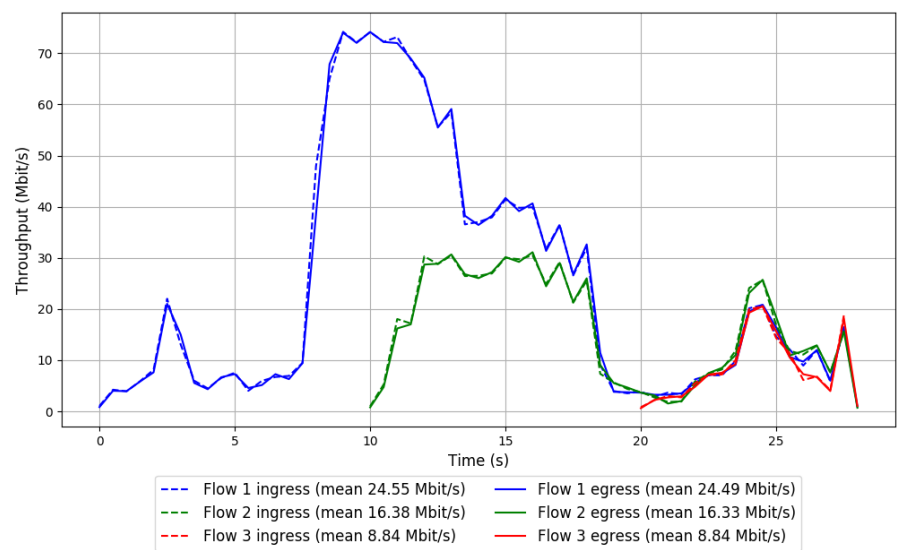
-- Flow 3:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 48.126 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-17 04:31:51

End at: 2018-01-17 04:32:21

Local clock offset: 1.399 ms

Remote clock offset: 5.703 ms

Below is generated by plot.py at 2018-01-17 07:20:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 54.864 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 20.40 Mbit/s

95th percentile per-packet one-way delay: 55.610 ms

Loss rate: 0.10%

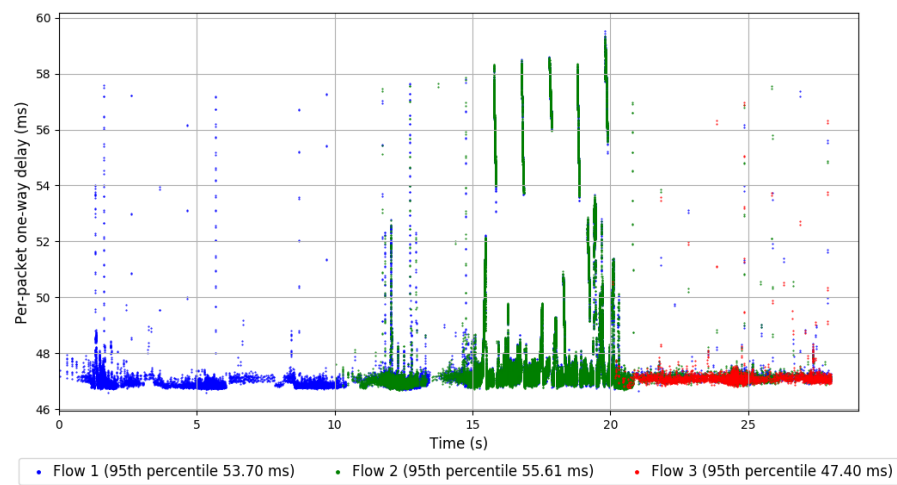
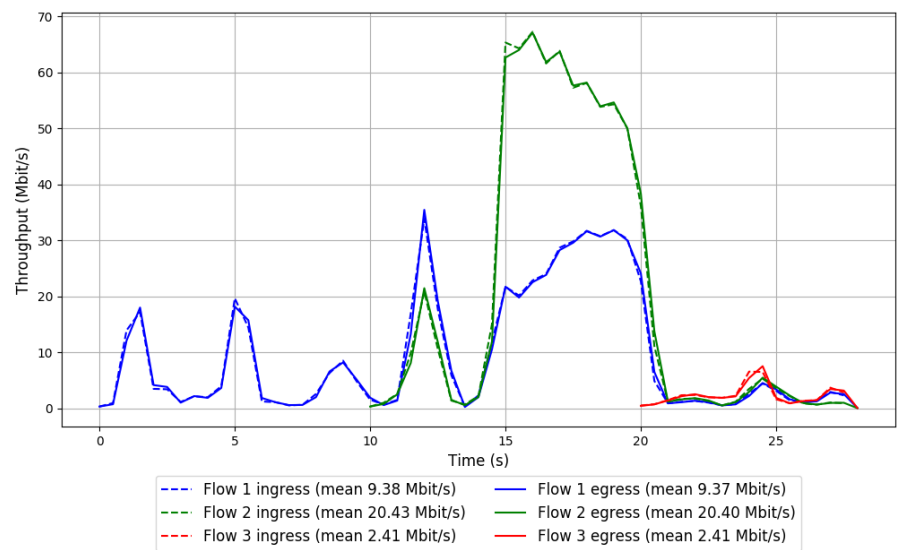
-- Flow 3:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 47.397 ms

Loss rate: 0.07%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-17 05:01:17

End at: 2018-01-17 05:01:47

Local clock offset: 1.874 ms

Remote clock offset: 3.919 ms

Below is generated by plot.py at 2018-01-17 07:21:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 54.405 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 51.00 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 33.65 Mbit/s

95th percentile per-packet one-way delay: 55.784 ms

Loss rate: 0.16%

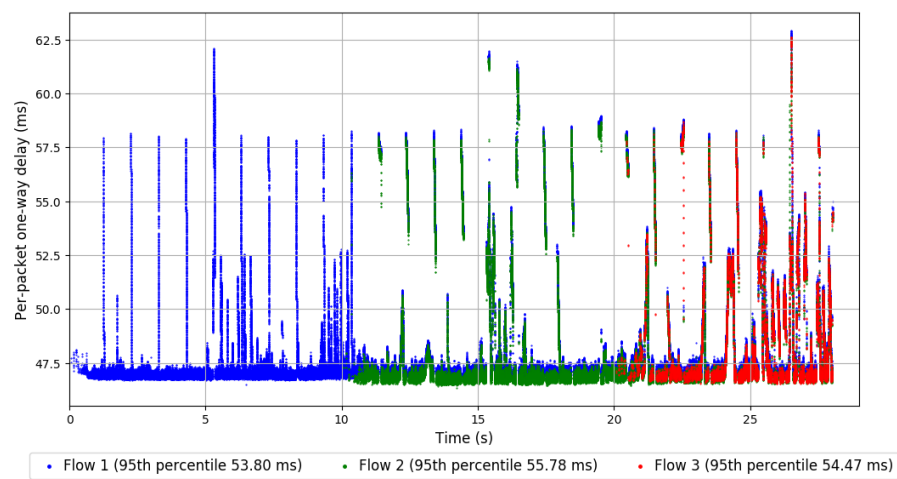
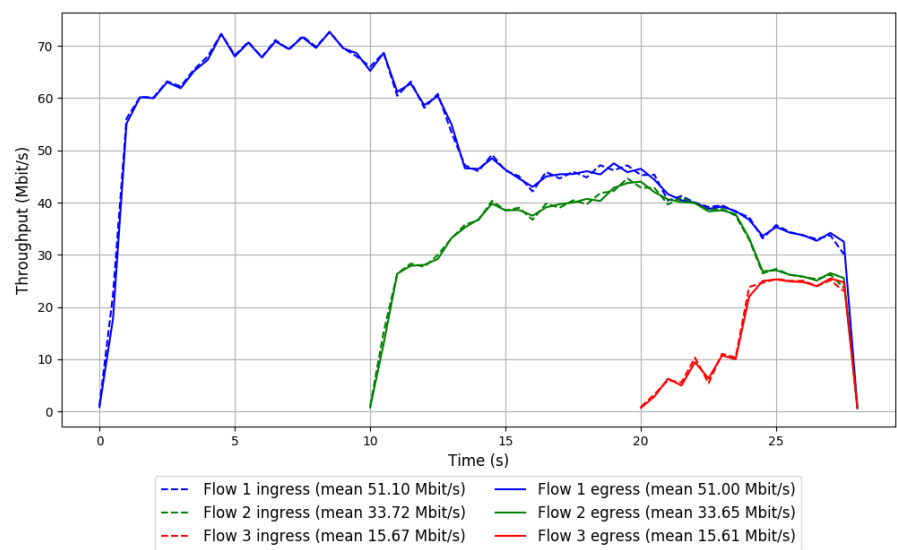
-- Flow 3:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 54.467 ms

Loss rate: 0.33%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-17 05:24:57

End at: 2018-01-17 05:25:27

Local clock offset: 2.436 ms

Remote clock offset: 0.933 ms

Below is generated by plot.py at 2018-01-17 07:21:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 53.115 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 47.10 Mbit/s

95th percentile per-packet one-way delay: 52.454 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 33.39 Mbit/s

95th percentile per-packet one-way delay: 54.698 ms

Loss rate: 0.35%

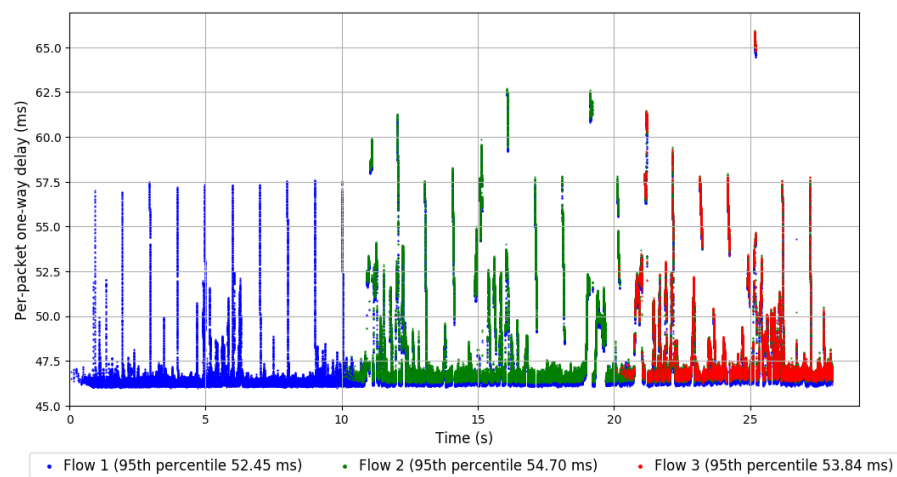
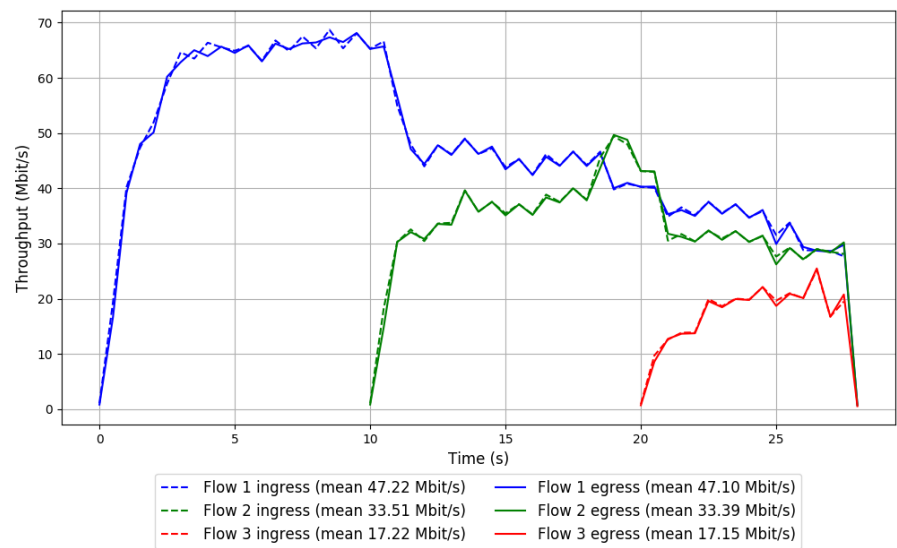
-- Flow 3:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.44%

Run 7: Report of Copa — Data Link

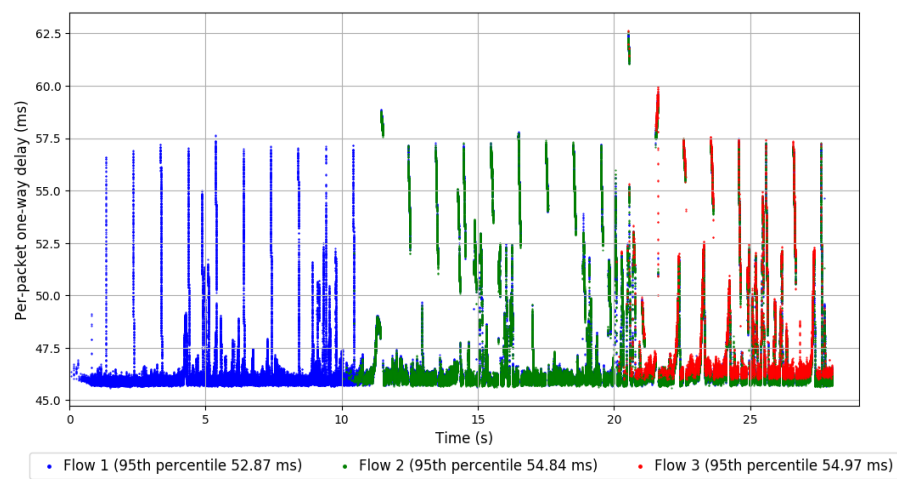
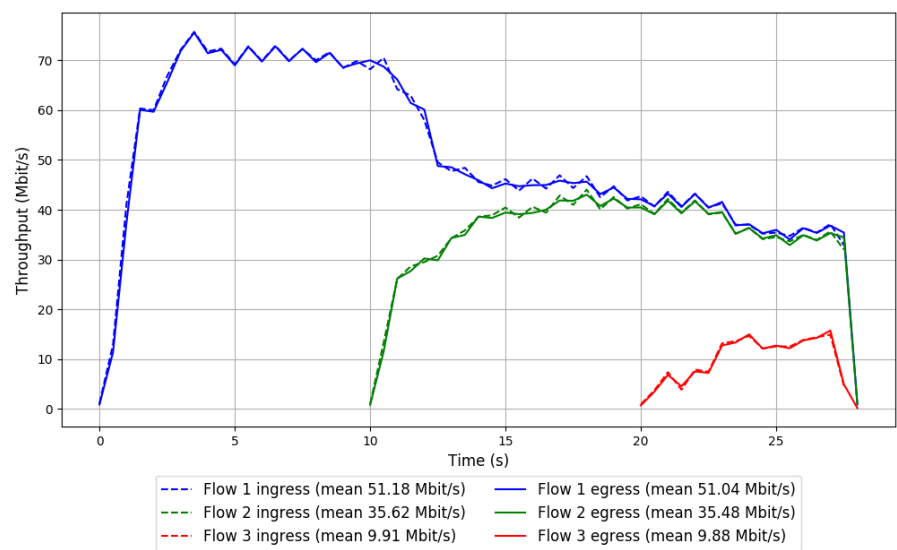


Run 8: Statistics of Copa

Start at: 2018-01-17 05:47:33
End at: 2018-01-17 05:48:03
Local clock offset: 2.785 ms
Remote clock offset: -0.558 ms

Below is generated by plot.py at 2018-01-17 07:21:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.63 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 51.04 Mbit/s
95th percentile per-packet one-way delay: 52.870 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 54.843 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 54.967 ms
Loss rate: 0.37%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-17 06:10:28

End at: 2018-01-17 06:10:58

Local clock offset: -0.227 ms

Remote clock offset: 0.968 ms

Below is generated by plot.py at 2018-01-17 07:21:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.43 Mbit/s

95th percentile per-packet one-way delay: 55.197 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 54.510 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 29.43 Mbit/s

95th percentile per-packet one-way delay: 56.036 ms

Loss rate: 0.35%

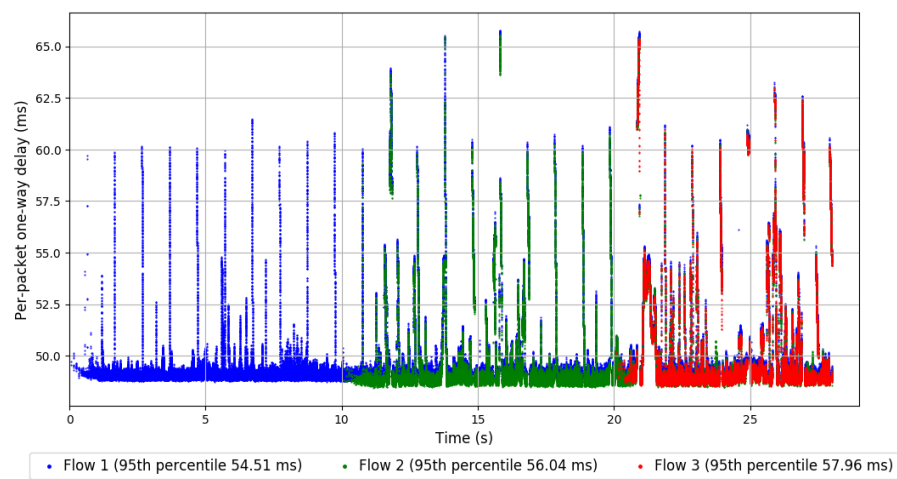
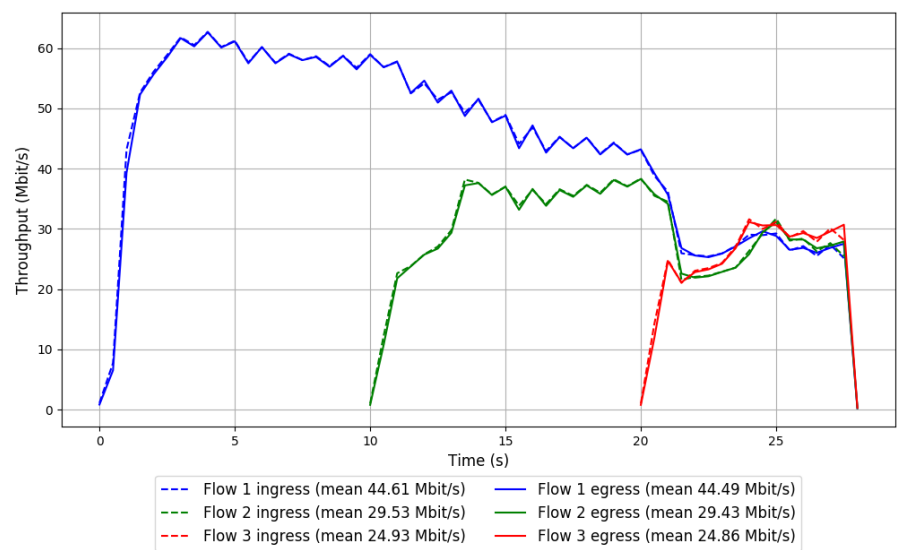
-- Flow 3:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 57.958 ms

Loss rate: 0.30%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

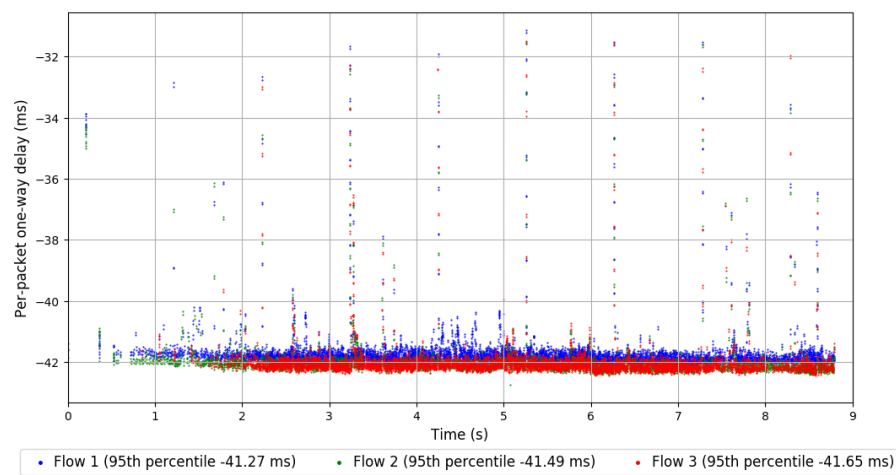
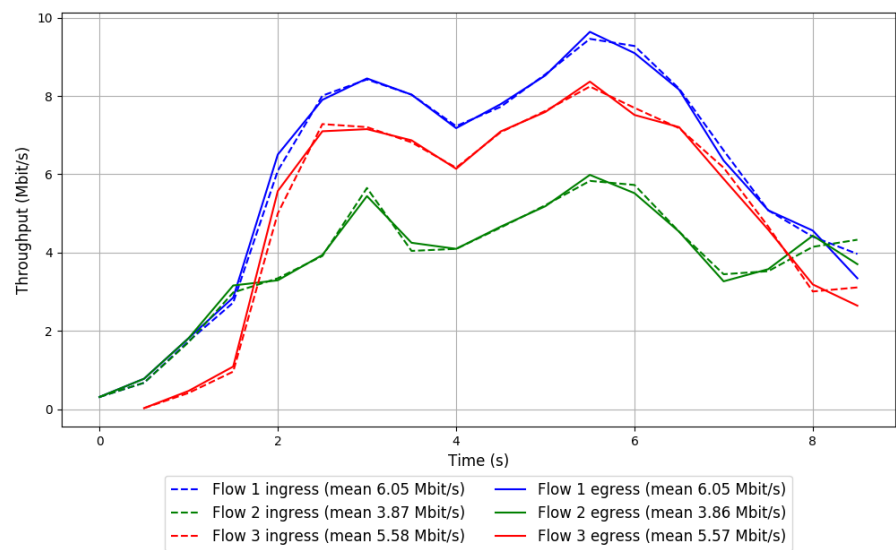
Start at: 2018-01-17 06:35:03

End at: 2018-01-17 06:35:33

Local clock offset: 2.046 ms

Remote clock offset: -85.648 ms

Run 10: Report of Copa — Data Link

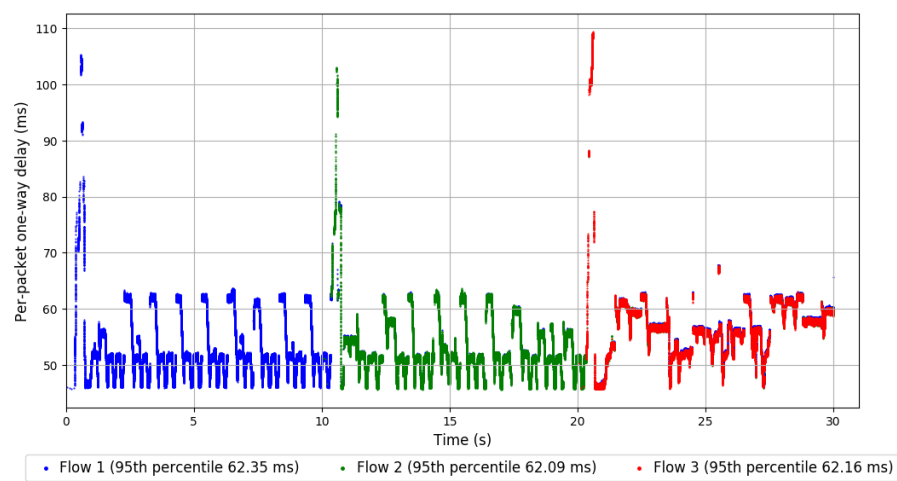
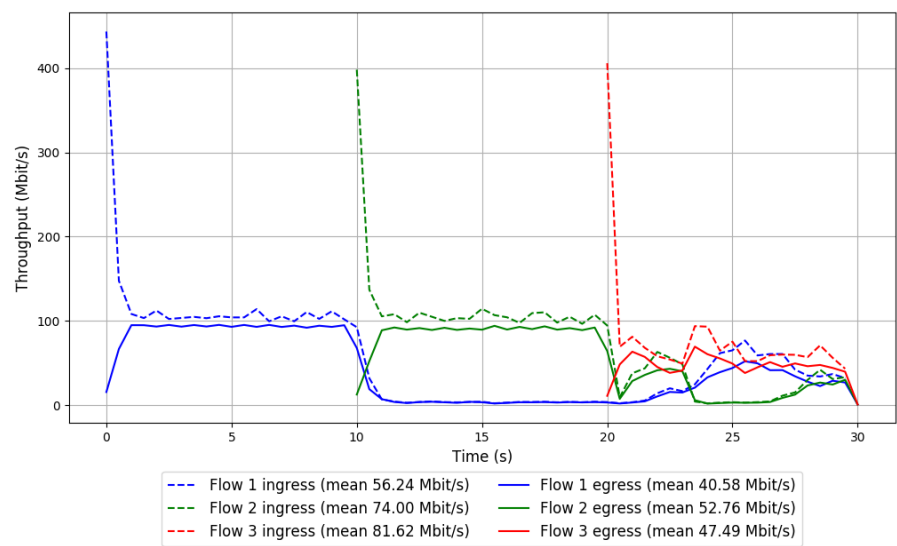


Run 1: Statistics of FillP

Start at: 2018-01-17 02:52:01
End at: 2018-01-17 02:52:31
Local clock offset: -0.364 ms
Remote clock offset: -4.646 ms

Below is generated by plot.py at 2018-01-17 07:21:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 62.246 ms
Loss rate: 30.97%
-- Flow 1:
Average throughput: 40.58 Mbit/s
95th percentile per-packet one-way delay: 62.347 ms
Loss rate: 27.79%
-- Flow 2:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 62.091 ms
Loss rate: 28.67%
-- Flow 3:
Average throughput: 47.49 Mbit/s
95th percentile per-packet one-way delay: 62.160 ms
Loss rate: 41.76%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-17 03:14:54

End at: 2018-01-17 03:15:24

Local clock offset: 0.04 ms

Remote clock offset: -2.03 ms

Below is generated by plot.py at 2018-01-17 07:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.08 Mbit/s

95th percentile per-packet one-way delay: 62.925 ms

Loss rate: 31.27%

-- Flow 1:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 62.730 ms

Loss rate: 26.60%

-- Flow 2:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 63.035 ms

Loss rate: 30.37%

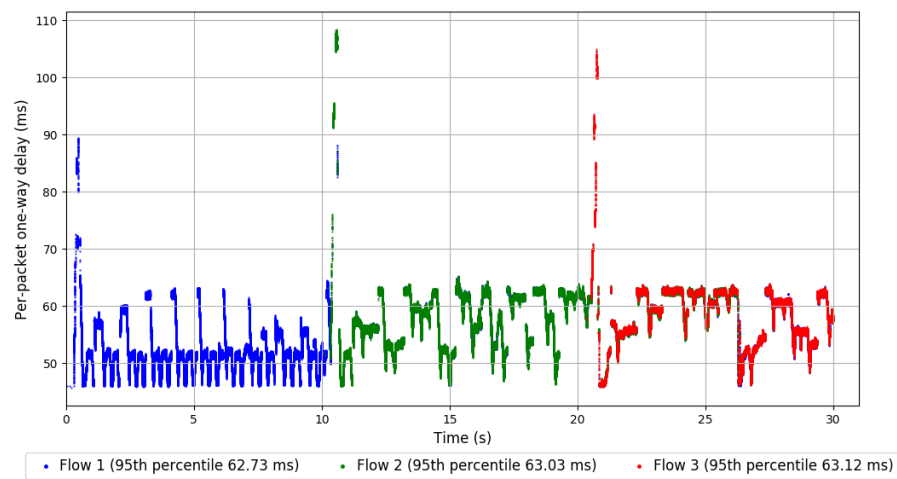
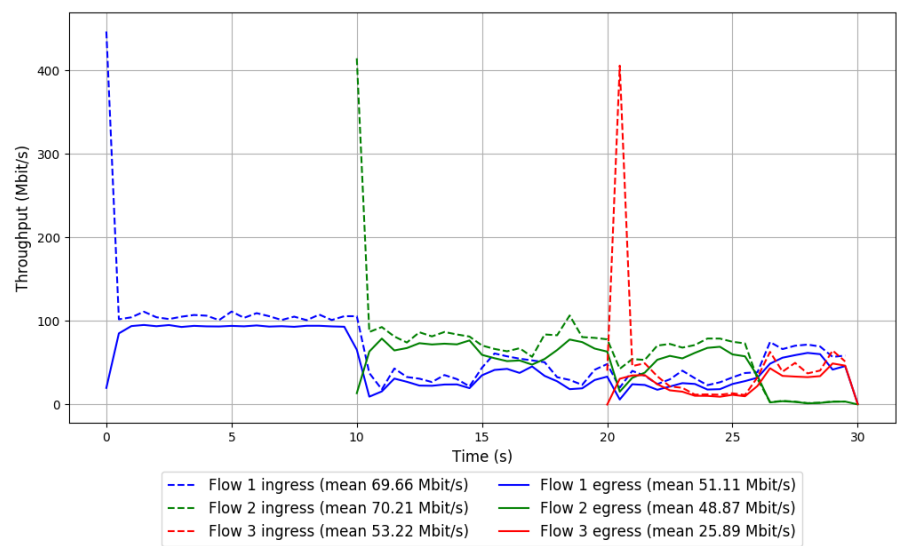
-- Flow 3:

Average throughput: 25.89 Mbit/s

95th percentile per-packet one-way delay: 63.123 ms

Loss rate: 52.11%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-17 03:38:00

End at: 2018-01-17 03:38:30

Local clock offset: 0.265 ms

Remote clock offset: 1.0 ms

Below is generated by plot.py at 2018-01-17 07:22:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.90 Mbit/s

95th percentile per-packet one-way delay: 256.230 ms

Loss rate: 38.50%

-- Flow 1:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 256.881 ms

Loss rate: 43.30%

-- Flow 2:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 64.261 ms

Loss rate: 29.68%

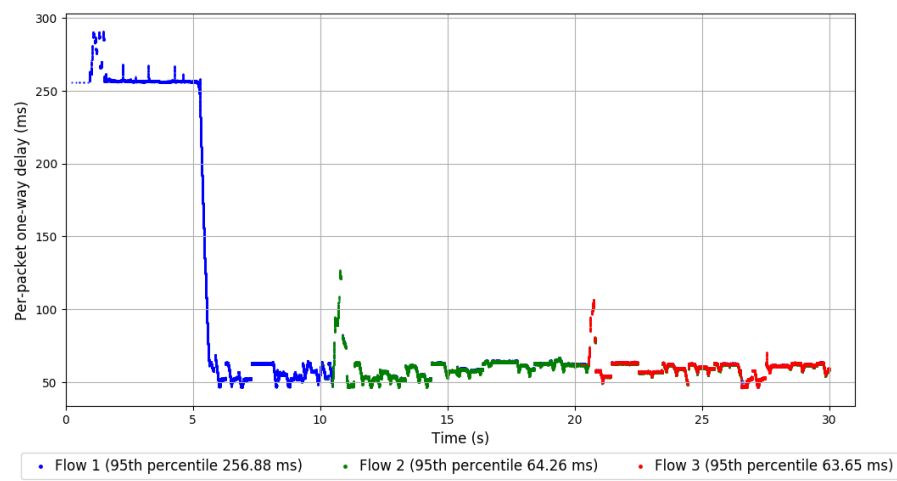
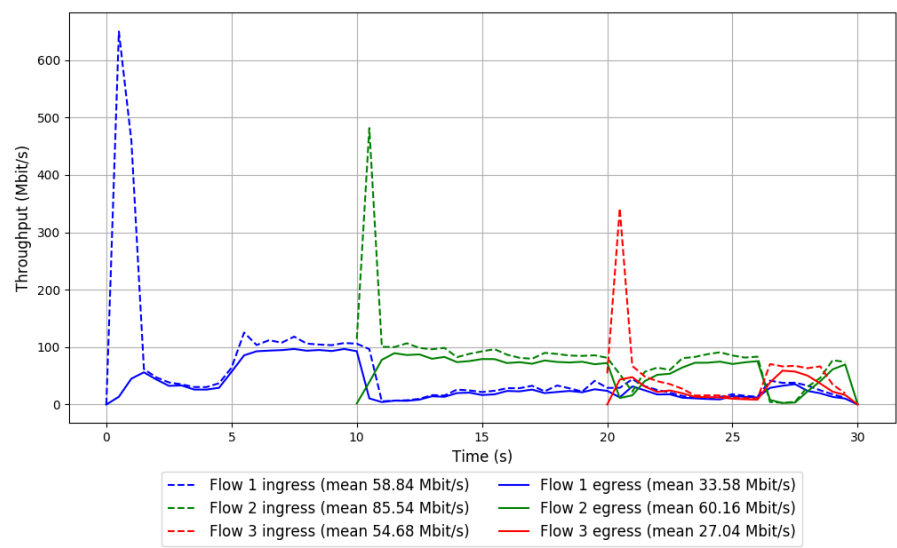
-- Flow 3:

Average throughput: 27.04 Mbit/s

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

Loss rate: 50.57%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-17 04:01:06

End at: 2018-01-17 04:01:36

Local clock offset: 1.121 ms

Remote clock offset: 3.613 ms

Below is generated by plot.py at 2018-01-17 07:22:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.55 Mbit/s

95th percentile per-packet one-way delay: 62.762 ms

Loss rate: 31.93%

-- Flow 1:

Average throughput: 42.74 Mbit/s

95th percentile per-packet one-way delay: 62.598 ms

Loss rate: 26.26%

-- Flow 2:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 62.917 ms

Loss rate: 31.48%

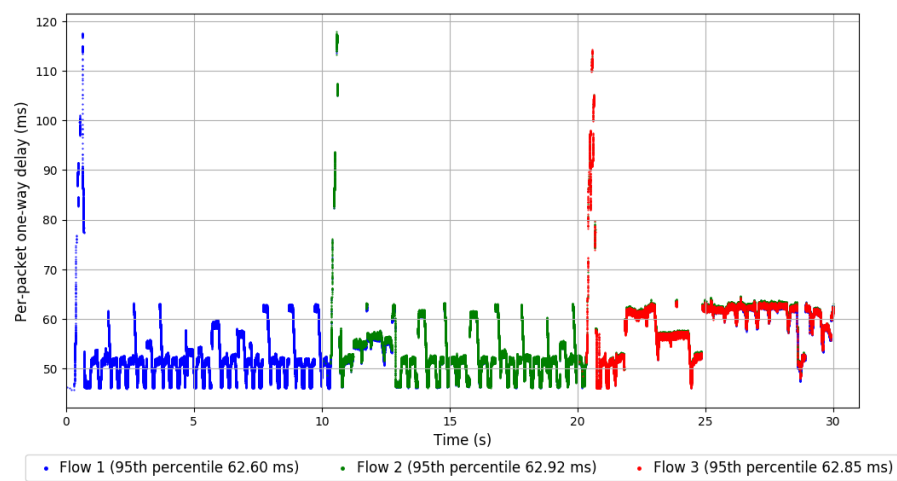
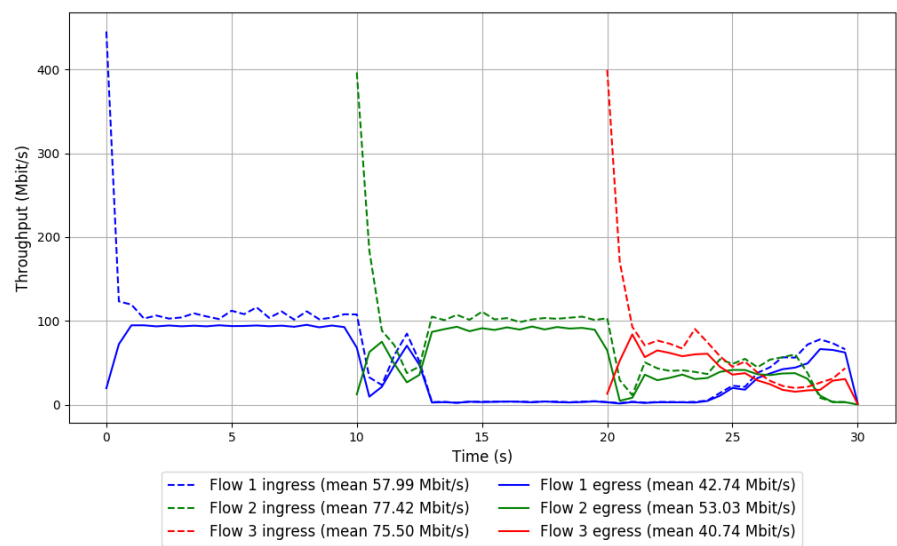
-- Flow 3:

Average throughput: 40.74 Mbit/s

95th percentile per-packet one-way delay: 62.849 ms

Loss rate: 45.98%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-17 04:23:52

End at: 2018-01-17 04:24:22

Local clock offset: 1.855 ms

Remote clock offset: 5.957 ms

Below is generated by plot.py at 2018-01-17 07:23:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.08 Mbit/s

95th percentile per-packet one-way delay: 64.106 ms

Loss rate: 33.77%

-- Flow 1:

Average throughput: 55.05 Mbit/s

95th percentile per-packet one-way delay: 62.676 ms

Loss rate: 25.58%

-- Flow 2:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 39.92%

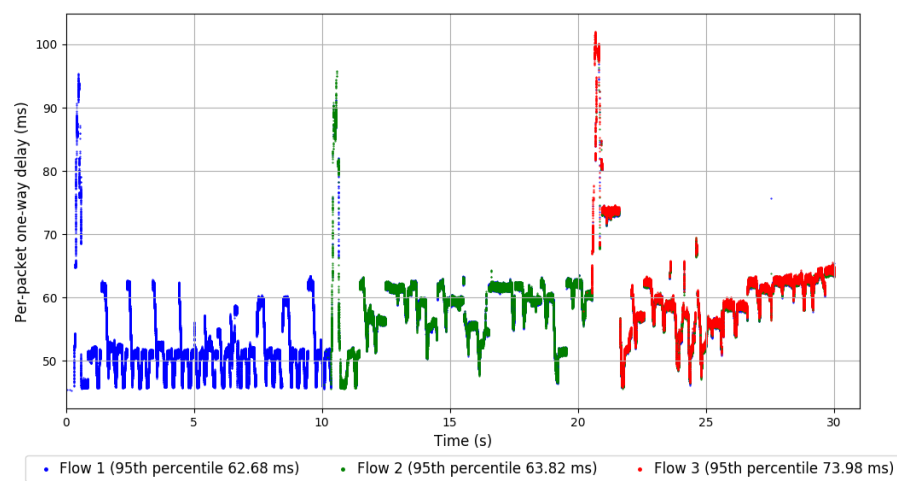
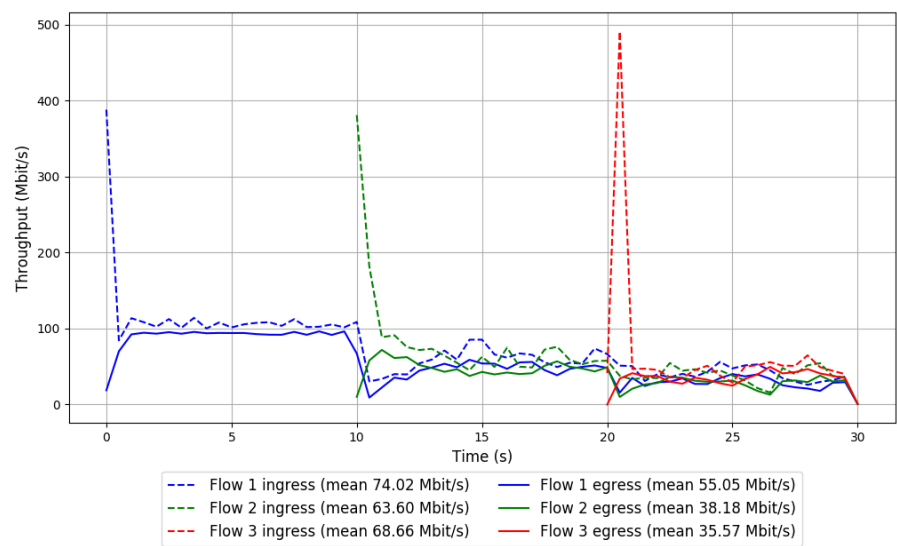
-- Flow 3:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 73.978 ms

Loss rate: 48.95%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-17 04:53:27

End at: 2018-01-17 04:53:57

Local clock offset: 1.778 ms

Remote clock offset: 4.298 ms

Below is generated by plot.py at 2018-01-17 07:23:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 63.048 ms

Loss rate: 34.19%

-- Flow 1:

Average throughput: 28.01 Mbit/s

95th percentile per-packet one-way delay: 63.260 ms

Loss rate: 40.86%

-- Flow 2:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 63.049 ms

Loss rate: 33.69%

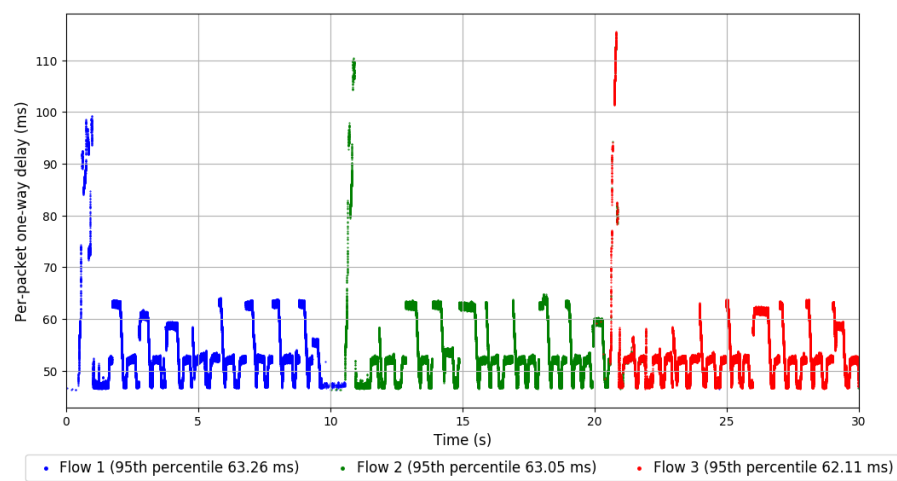
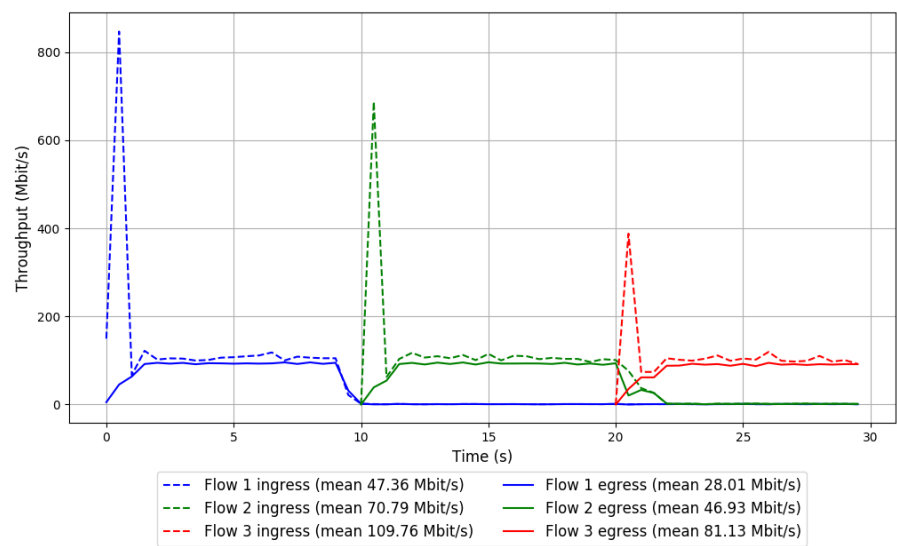
-- Flow 3:

Average throughput: 81.13 Mbit/s

95th percentile per-packet one-way delay: 62.111 ms

Loss rate: 26.14%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-17 05:17:01

End at: 2018-01-17 05:17:31

Local clock offset: 2.481 ms

Remote clock offset: 1.628 ms

Below is generated by plot.py at 2018-01-17 07:23:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 66.201 ms

Loss rate: 32.89%

-- Flow 1:

Average throughput: 61.37 Mbit/s

95th percentile per-packet one-way delay: 64.474 ms

Loss rate: 24.37%

-- Flow 2:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 72.509 ms

Loss rate: 39.53%

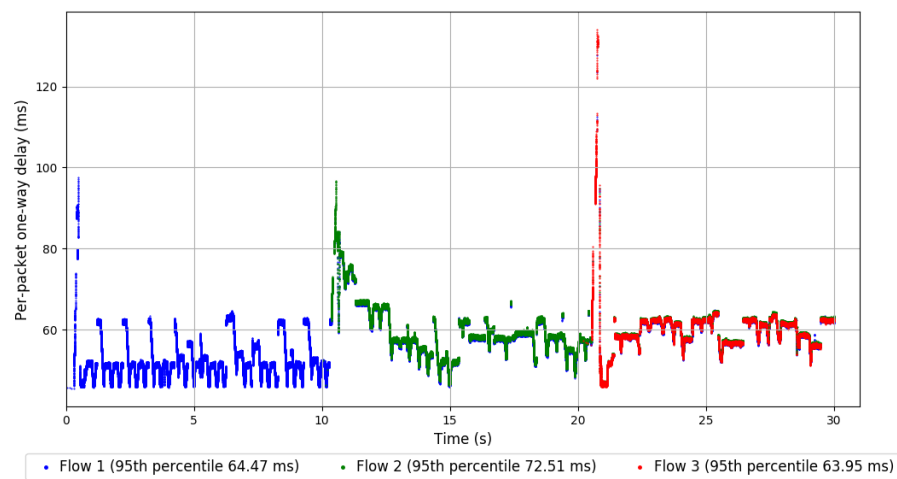
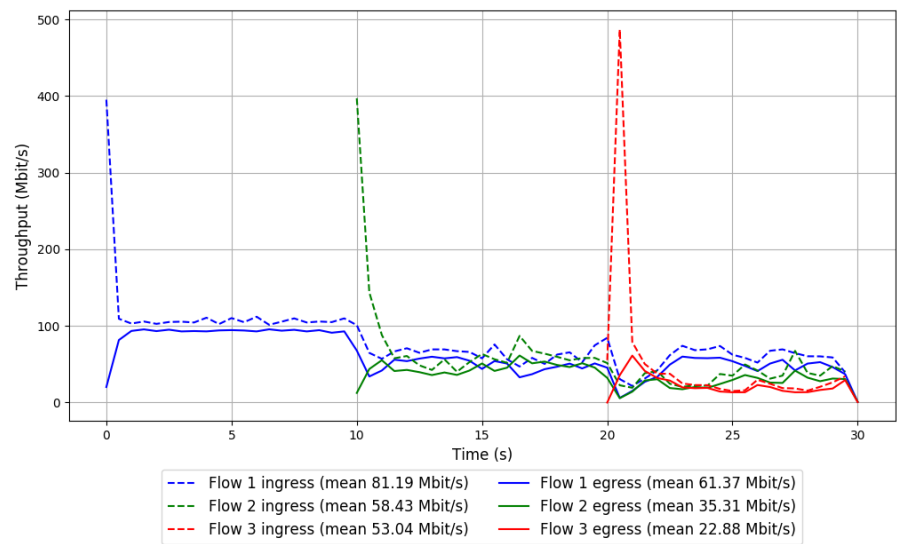
-- Flow 3:

Average throughput: 22.88 Mbit/s

95th percentile per-packet one-way delay: 63.952 ms

Loss rate: 57.50%

Run 7: Report of FillP — Data Link

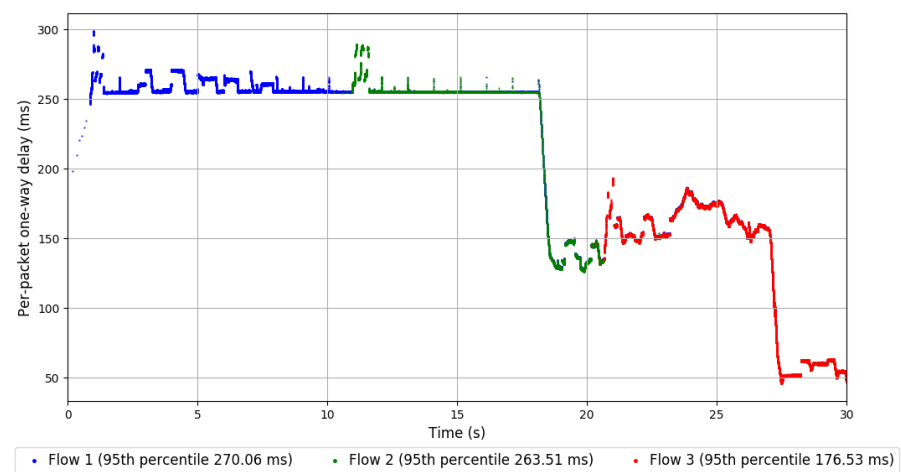
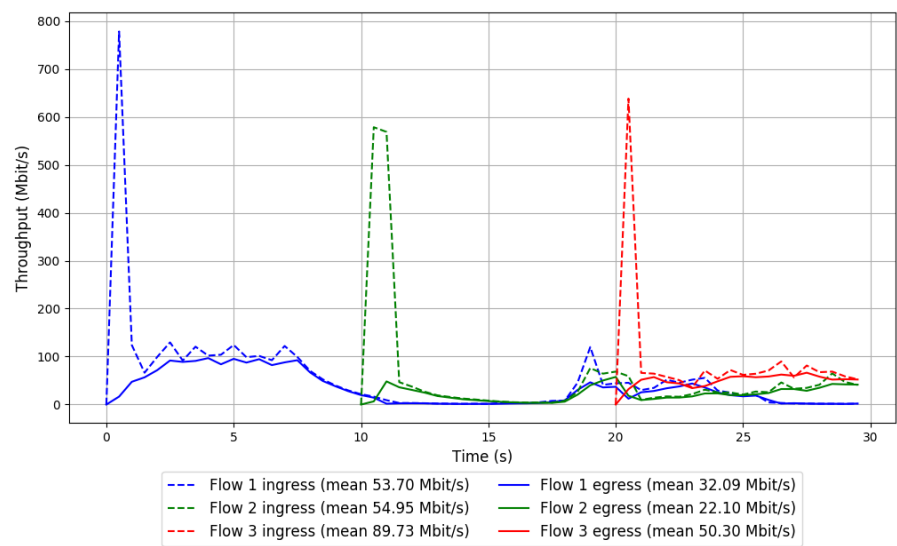


Run 8: Statistics of FillP

Start at: 2018-01-17 05:39:55
End at: 2018-01-17 05:40:25
Local clock offset: 2.421 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-01-17 07:23:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.31 Mbit/s
95th percentile per-packet one-way delay: 266.585 ms
Loss rate: 47.52%
-- Flow 1:
Average throughput: 32.09 Mbit/s
95th percentile per-packet one-way delay: 270.063 ms
Loss rate: 40.55%
-- Flow 2:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 263.509 ms
Loss rate: 60.21%
-- Flow 3:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 176.530 ms
Loss rate: 44.49%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-17 06:02:50

End at: 2018-01-17 06:03:20

Local clock offset: 2.681 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-01-17 07:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 62.280 ms

Loss rate: 30.51%

-- Flow 1:

Average throughput: 42.39 Mbit/s

95th percentile per-packet one-way delay: 62.184 ms

Loss rate: 25.41%

-- Flow 2:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 61.950 ms

Loss rate: 29.38%

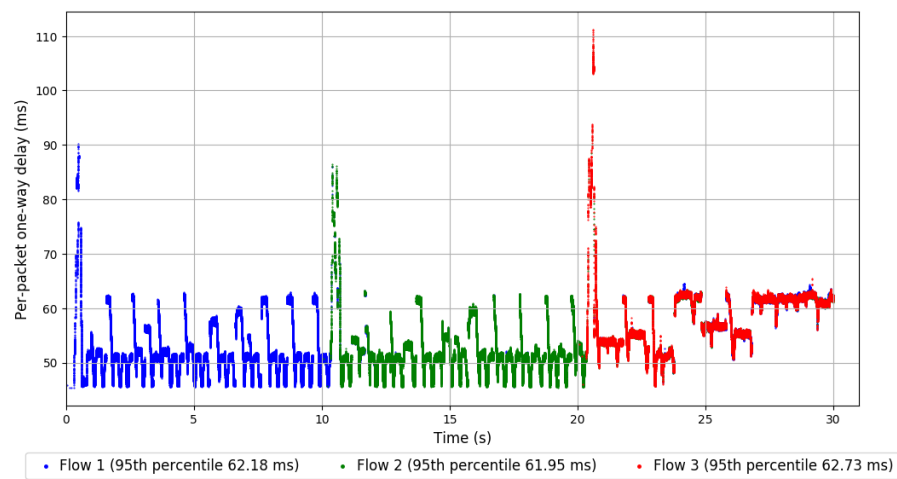
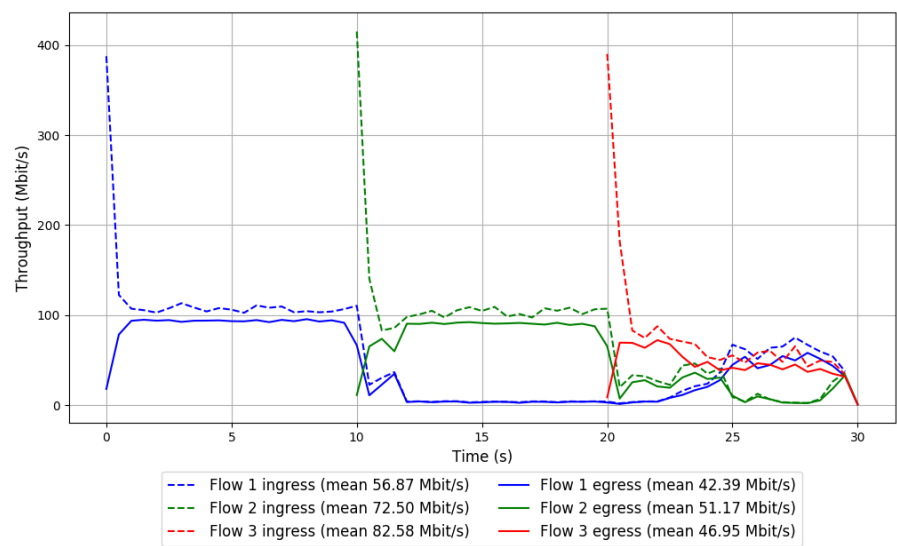
-- Flow 3:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 62.728 ms

Loss rate: 43.10%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-17 06:25:43

End at: 2018-01-17 06:26:13

Local clock offset: 2.105 ms

Remote clock offset: 2.246 ms

Below is generated by plot.py at 2018-01-17 07:23:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 63.003 ms

Loss rate: 32.11%

-- Flow 1:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 62.810 ms

Loss rate: 26.60%

-- Flow 2:

Average throughput: 49.59 Mbit/s

95th percentile per-packet one-way delay: 63.151 ms

Loss rate: 31.59%

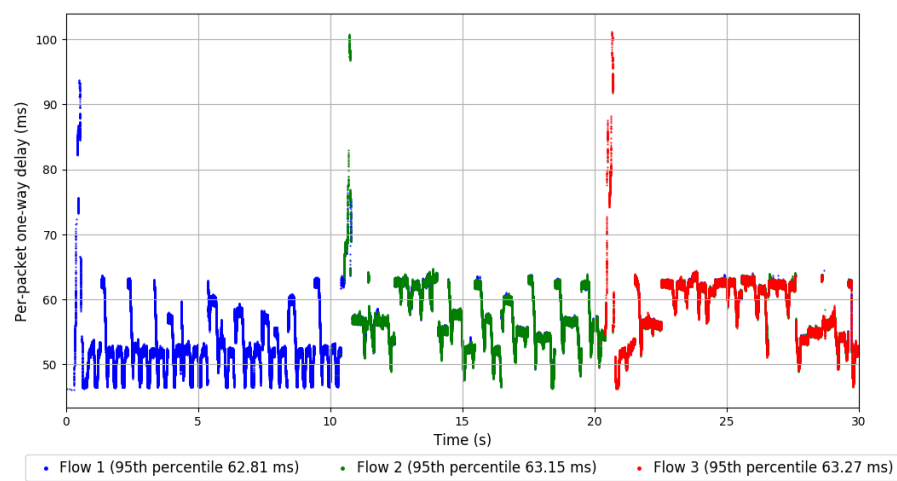
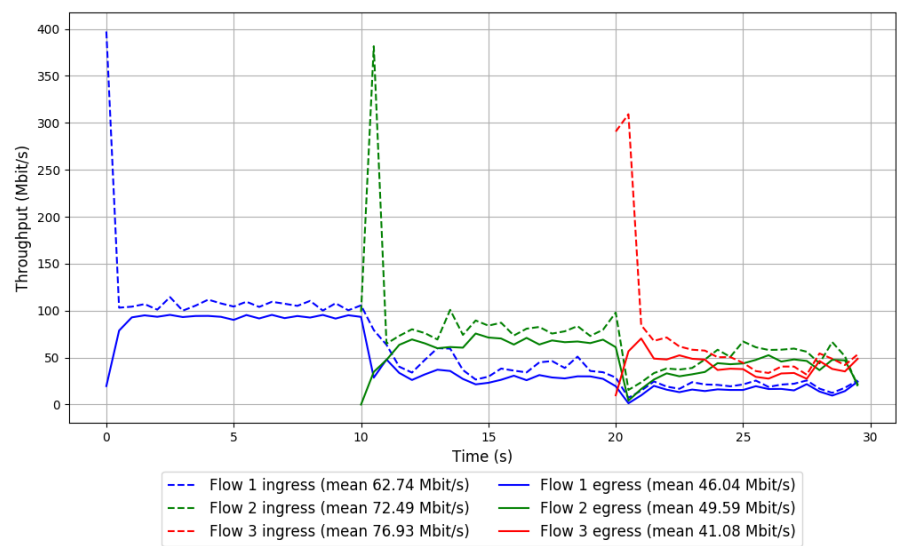
-- Flow 3:

Average throughput: 41.08 Mbit/s

95th percentile per-packet one-way delay: 63.267 ms

Loss rate: 46.63%

Run 10: Report of FillP — Data Link

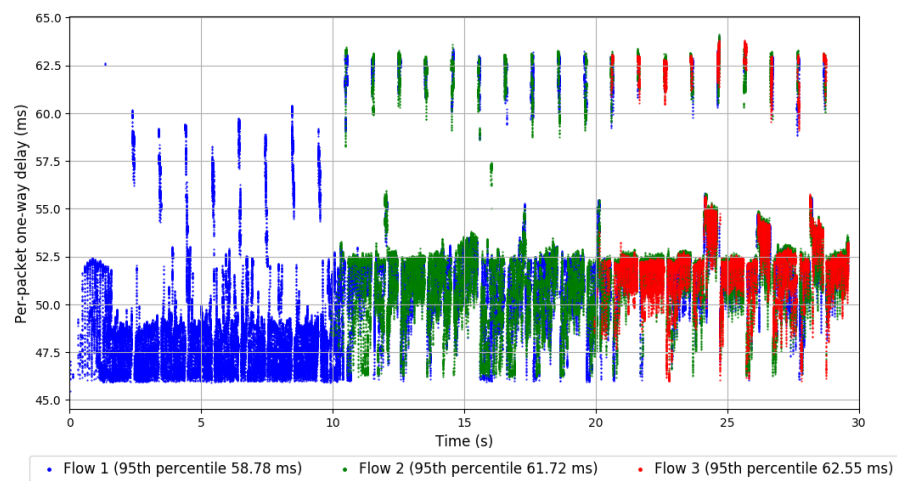
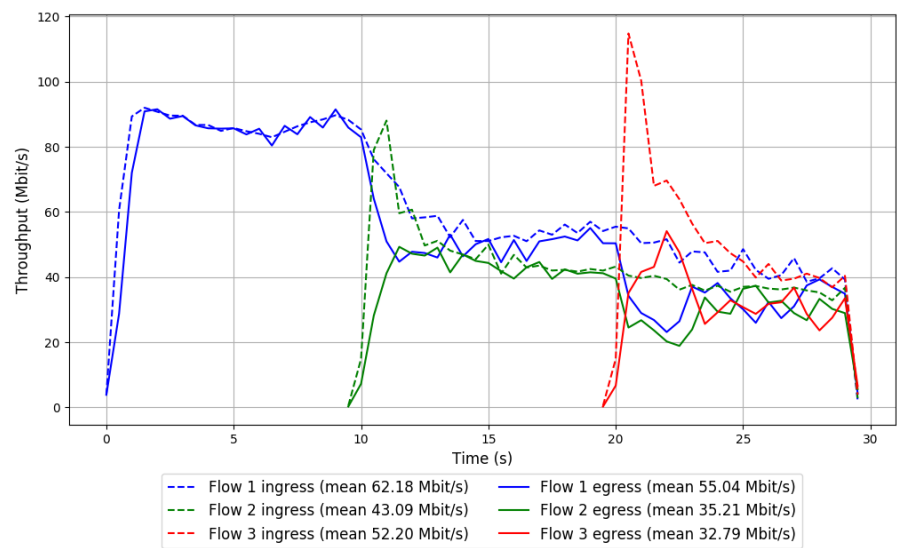


```
Run 1: Statistics of Indigo

Start at: 2018-01-17 02:49:22
End at: 2018-01-17 02:49:52
Local clock offset: -0.563 ms
Remote clock offset: -4.676 ms

# Below is generated by plot.py at 2018-01-17 07:23:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 61.264 ms
Loss rate: 17.33%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 58.778 ms
Loss rate: 11.47%
-- Flow 2:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 61.722 ms
Loss rate: 18.26%
-- Flow 3:
Average throughput: 32.79 Mbit/s
95th percentile per-packet one-way delay: 62.545 ms
Loss rate: 37.15%
```

Run 1: Report of Indigo — Data Link

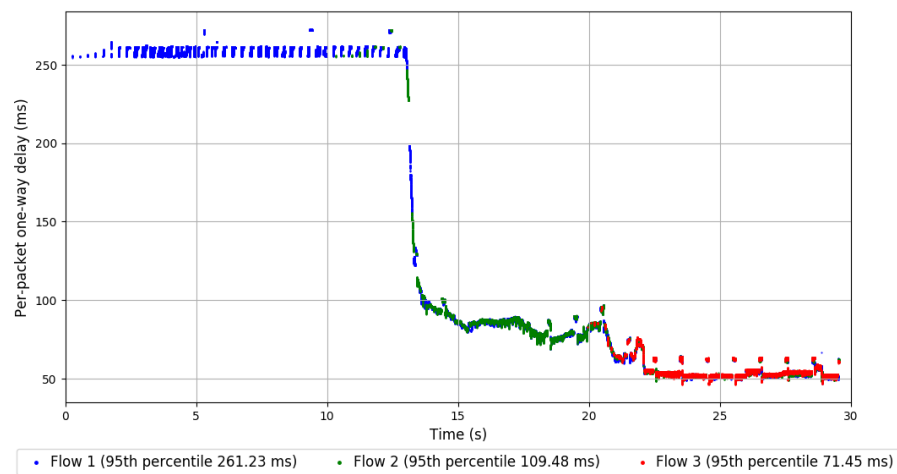
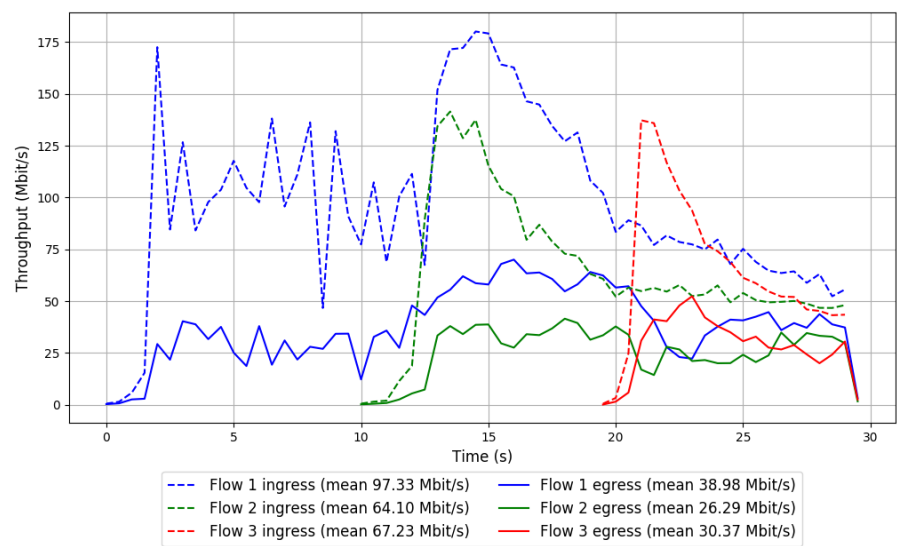


Run 2: Statistics of Indigo

Start at: 2018-01-17 03:12:22
End at: 2018-01-17 03:12:52
Local clock offset: -0.227 ms
Remote clock offset: -2.357 ms

Below is generated by plot.py at 2018-01-17 07:24:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.14 Mbit/s
95th percentile per-packet one-way delay: 261.104 ms
Loss rate: 59.28%
-- Flow 1:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 261.234 ms
Loss rate: 60.21%
-- Flow 2:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 109.479 ms
Loss rate: 59.39%
-- Flow 3:
Average throughput: 30.37 Mbit/s
95th percentile per-packet one-way delay: 71.450 ms
Loss rate: 54.92%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-17 03:35:19

End at: 2018-01-17 03:35:49

Local clock offset: 0.668 ms

Remote clock offset: 0.595 ms

Below is generated by plot.py at 2018-01-17 07:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.76 Mbit/s

95th percentile per-packet one-way delay: 61.556 ms

Loss rate: 20.11%

-- Flow 1:

Average throughput: 46.32 Mbit/s

95th percentile per-packet one-way delay: 60.461 ms

Loss rate: 15.92%

-- Flow 2:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 62.125 ms

Loss rate: 19.37%

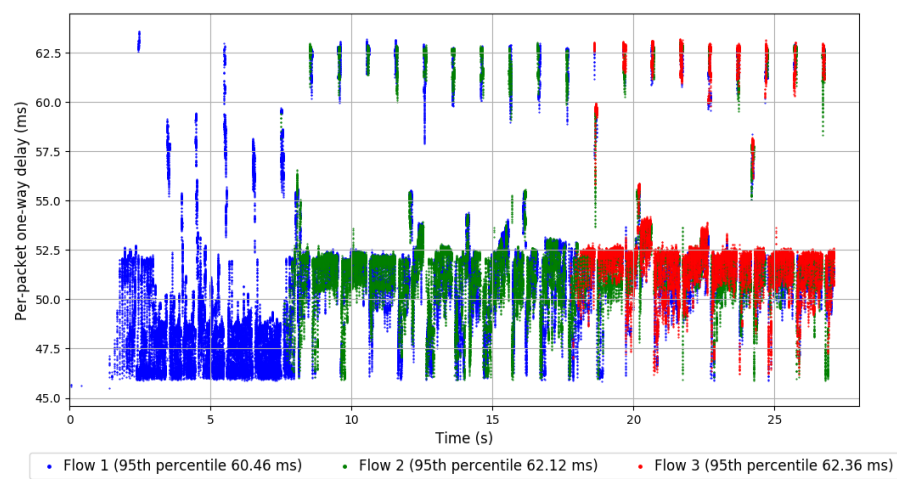
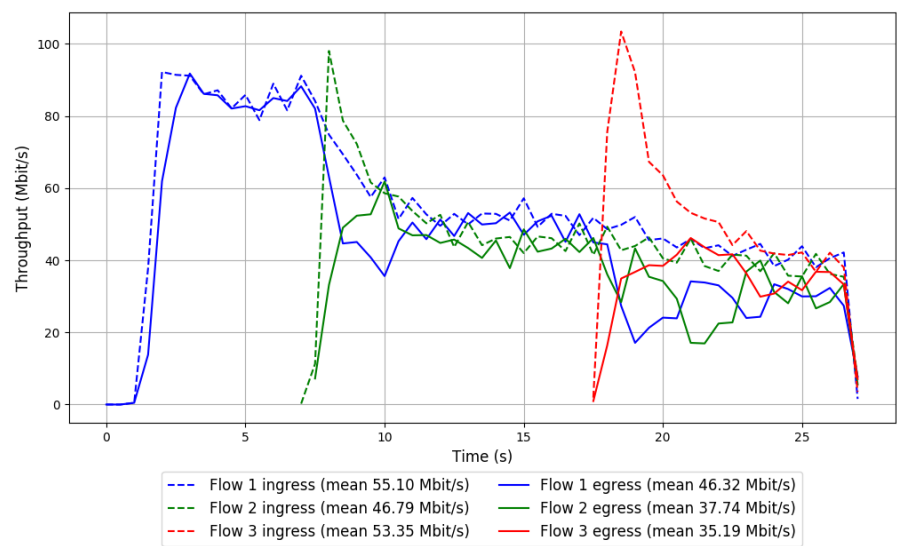
-- Flow 3:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 62.358 ms

Loss rate: 34.04%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-17 03:58:34

End at: 2018-01-17 03:59:04

Local clock offset: 1.378 ms

Remote clock offset: 3.502 ms

Below is generated by plot.py at 2018-01-17 07:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 61.556 ms

Loss rate: 11.92%

-- Flow 1:

Average throughput: 43.69 Mbit/s

95th percentile per-packet one-way delay: 61.071 ms

Loss rate: 9.89%

-- Flow 2:

Average throughput: 39.76 Mbit/s

95th percentile per-packet one-way delay: 61.925 ms

Loss rate: 13.18%

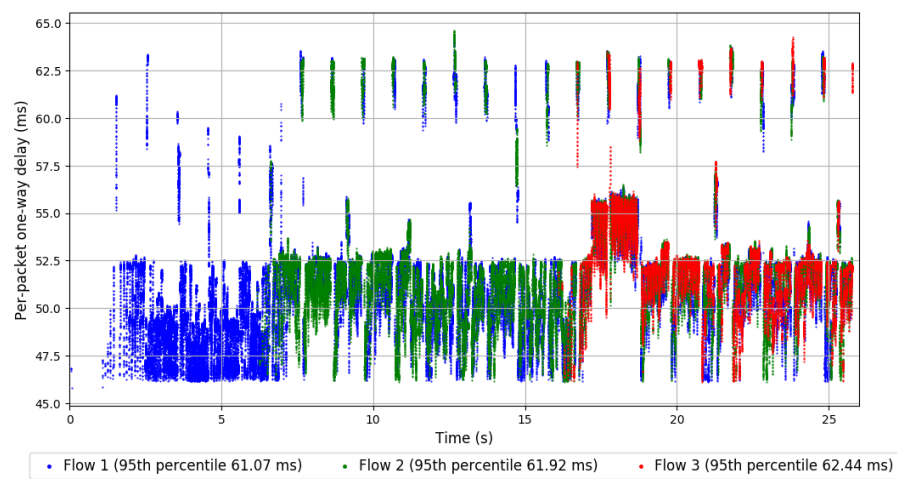
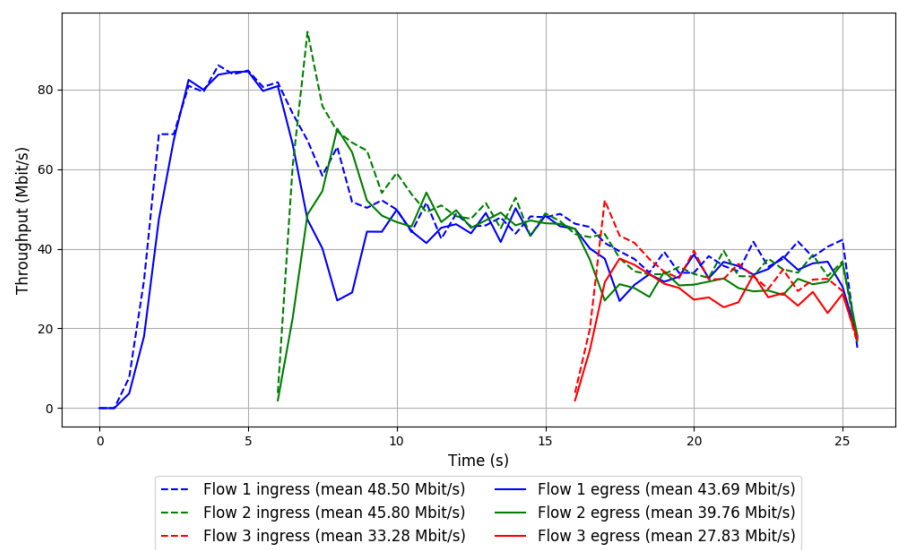
-- Flow 3:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 62.439 ms

Loss rate: 16.28%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-17 04:21:20

End at: 2018-01-17 04:21:50

Local clock offset: 1.488 ms

Remote clock offset: 5.711 ms

Below is generated by plot.py at 2018-01-17 07:24:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 57.061 ms

Loss rate: 11.46%

-- Flow 1:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 56.223 ms

Loss rate: 8.94%

-- Flow 2:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 57.992 ms

Loss rate: 12.19%

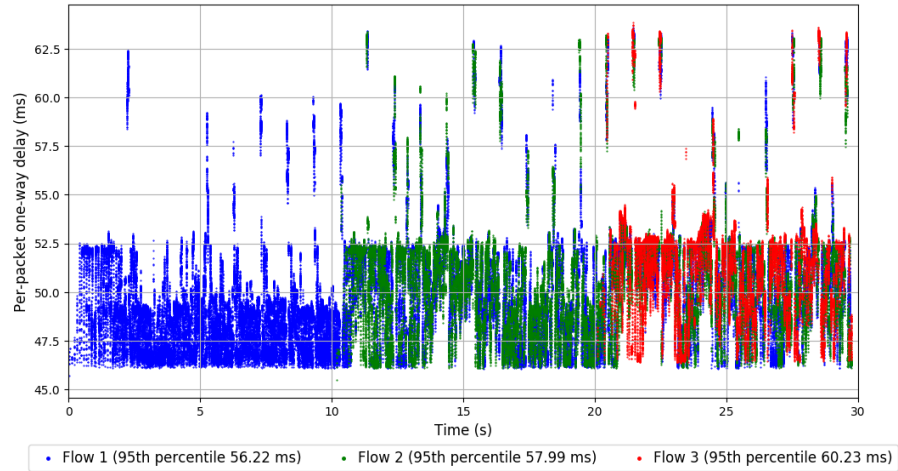
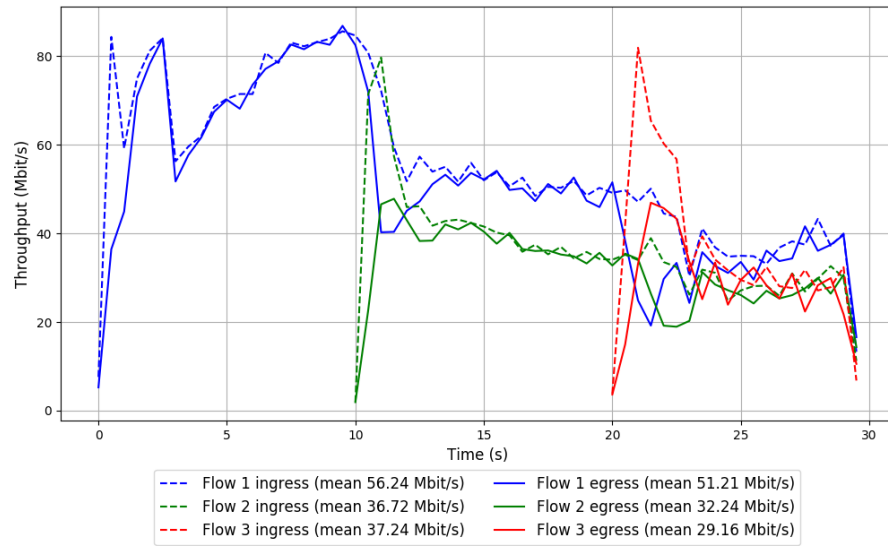
-- Flow 3:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: 60.231 ms

Loss rate: 21.69%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-17 04:50:33

End at: 2018-01-17 04:51:03

Local clock offset: 2.047 ms

Remote clock offset: 4.388 ms

Below is generated by plot.py at 2018-01-17 07:24:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.40 Mbit/s

95th percentile per-packet one-way delay: 258.075 ms

Loss rate: 18.40%

-- Flow 1:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 255.946 ms

Loss rate: 4.61%

-- Flow 2:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 257.164 ms

Loss rate: 21.98%

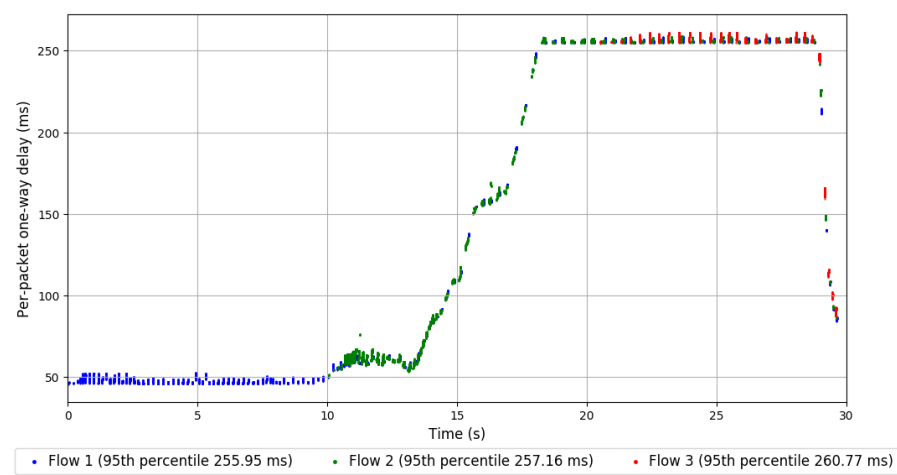
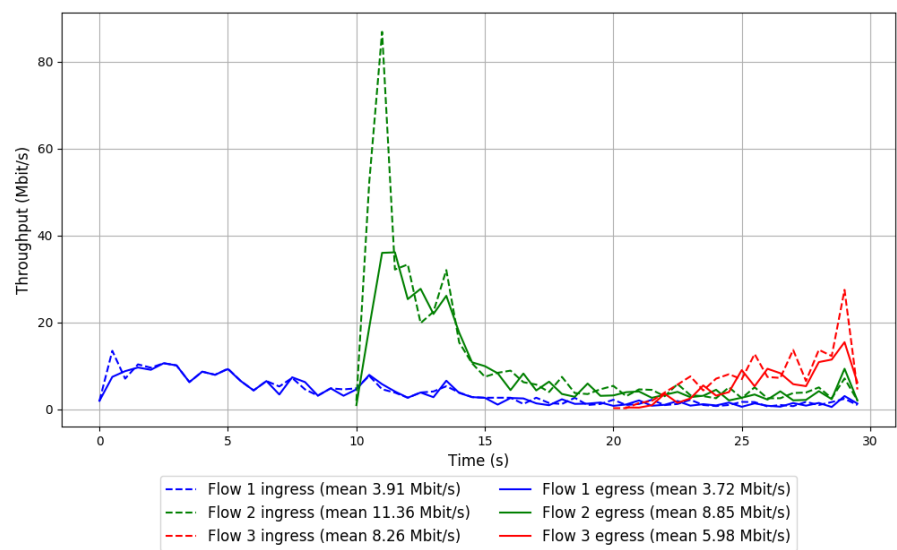
-- Flow 3:

Average throughput: 5.98 Mbit/s

95th percentile per-packet one-way delay: 260.769 ms

Loss rate: 28.89%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-17 05:14:08

End at: 2018-01-17 05:14:38

Local clock offset: 2.634 ms

Remote clock offset: 2.067 ms

Below is generated by plot.py at 2018-01-17 07:25:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 61.231 ms

Loss rate: 23.48%

-- Flow 1:

Average throughput: 58.42 Mbit/s

95th percentile per-packet one-way delay: 60.255 ms

Loss rate: 12.79%

-- Flow 2:

Average throughput: 30.27 Mbit/s

95th percentile per-packet one-way delay: 61.976 ms

Loss rate: 33.65%

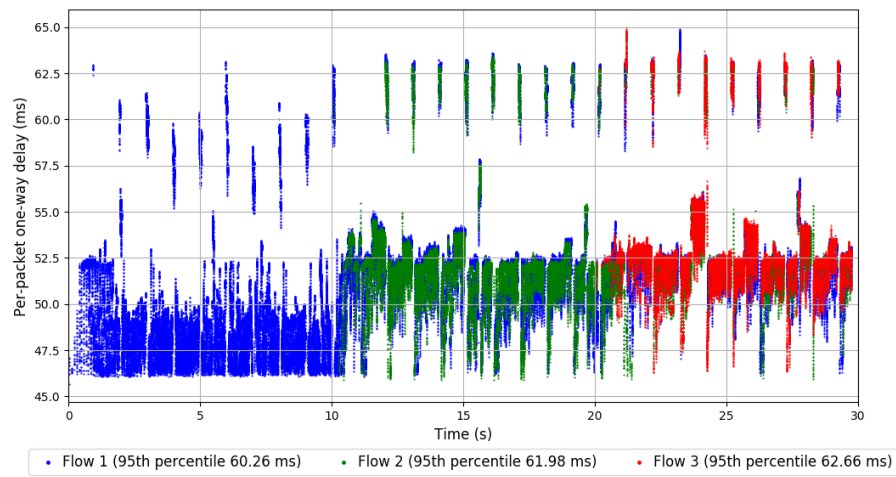
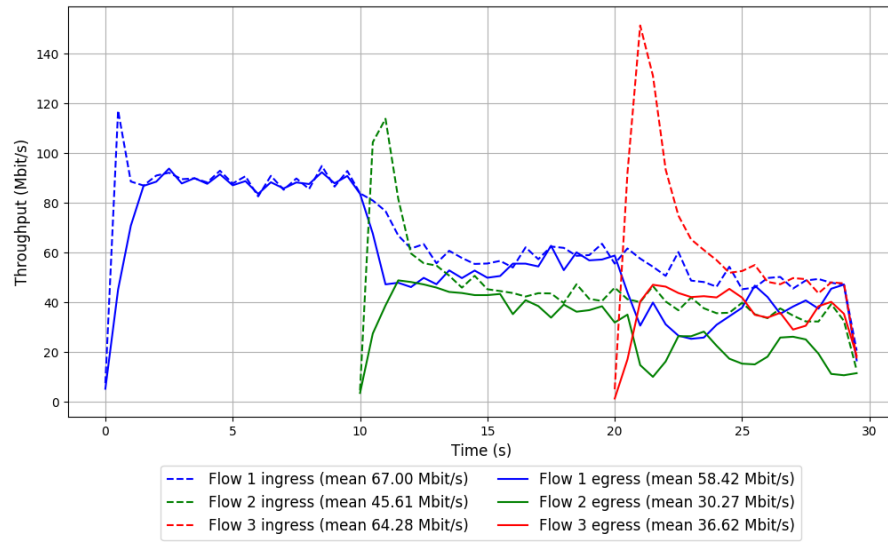
-- Flow 3:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 62.665 ms

Loss rate: 43.03%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

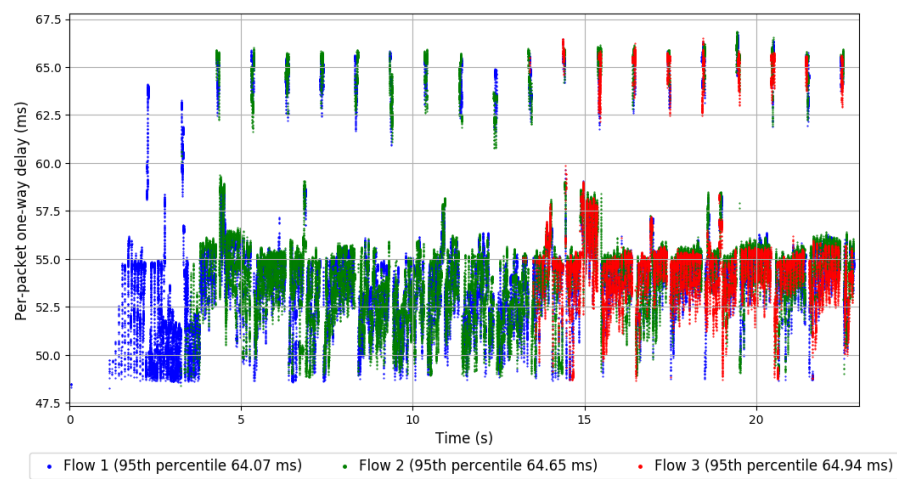
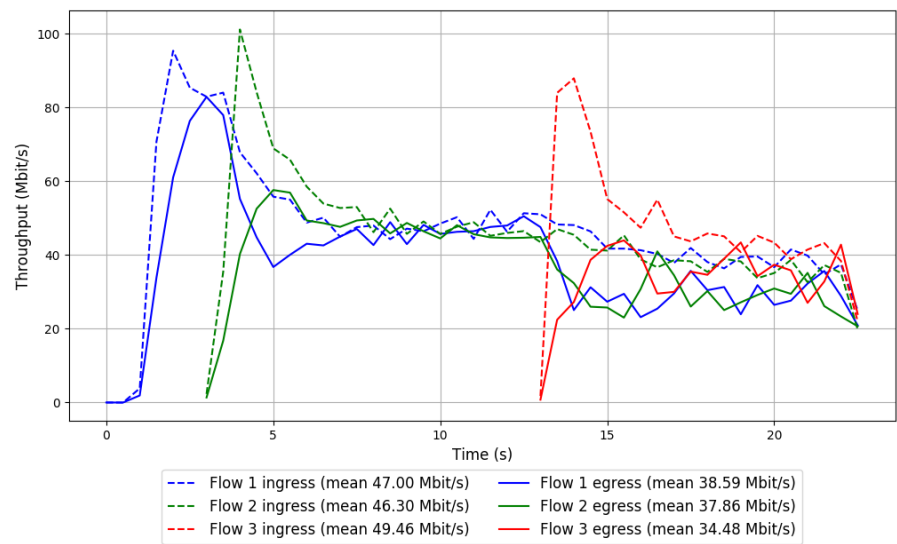
Start at: 2018-01-17 05:37:24

End at: 2018-01-17 05:37:54

Local clock offset: -0.059 ms

Remote clock offset: 0.145 ms

Run 8: Report of Indigo — Data Link

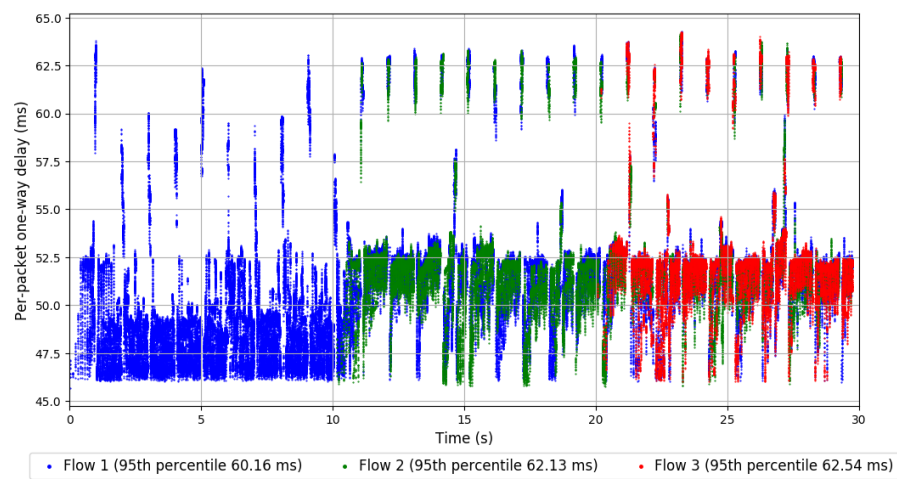
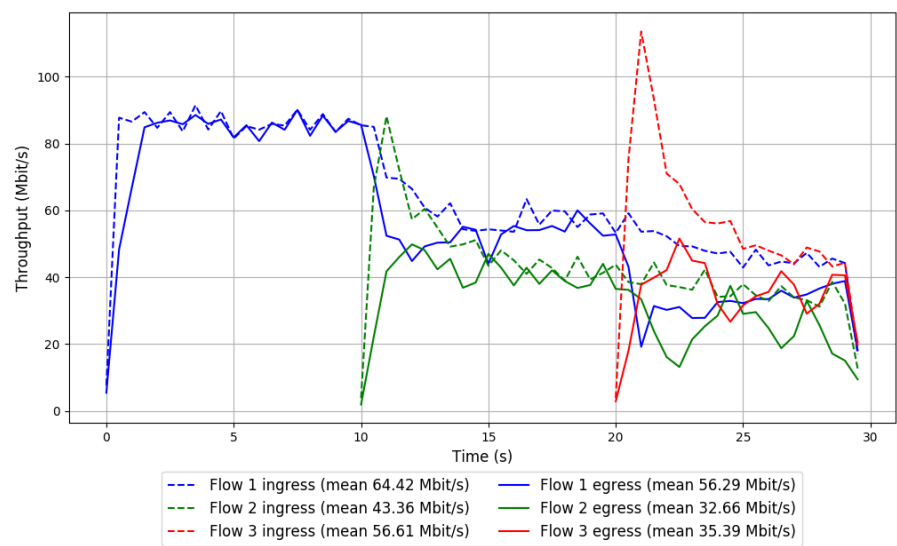


Run 9: Statistics of Indigo

Start at: 2018-01-17 06:00:17
End at: 2018-01-17 06:00:47
Local clock offset: 2.58 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-01-17 07:25:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 61.452 ms
Loss rate: 19.81%
-- Flow 1:
Average throughput: 56.29 Mbit/s
95th percentile per-packet one-way delay: 60.161 ms
Loss rate: 12.60%
-- Flow 2:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 62.130 ms
Loss rate: 24.66%
-- Flow 3:
Average throughput: 35.39 Mbit/s
95th percentile per-packet one-way delay: 62.537 ms
Loss rate: 37.47%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

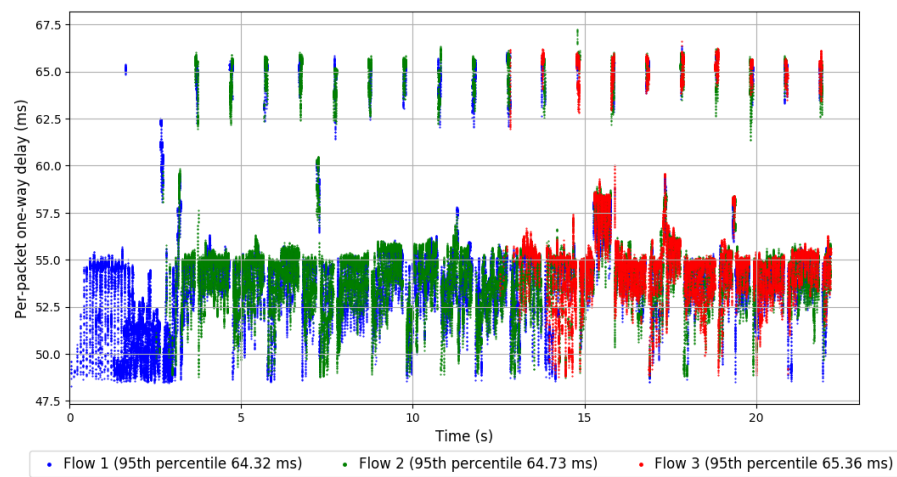
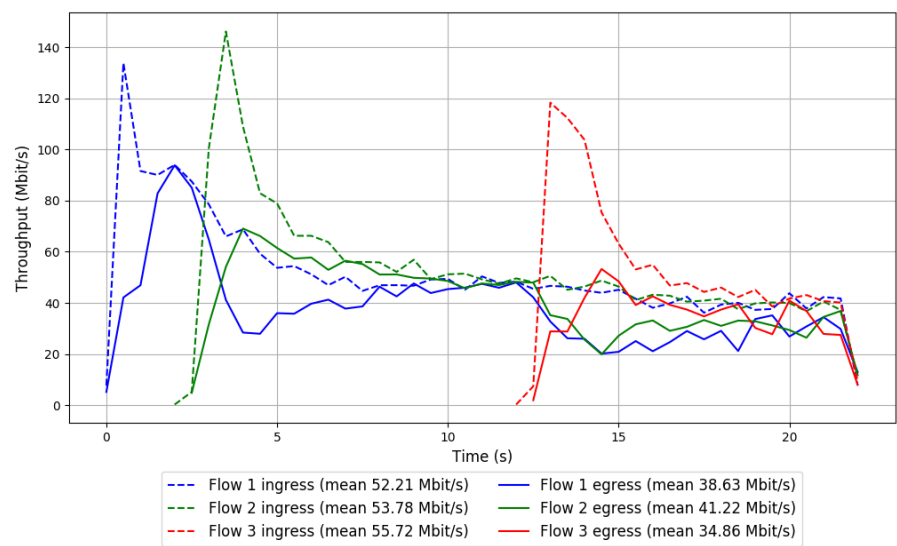
Start at: 2018-01-17 06:23:10

End at: 2018-01-17 06:23:40

Local clock offset: -0.254 ms

Remote clock offset: 2.024 ms

Run 10: Report of Indigo — Data Link

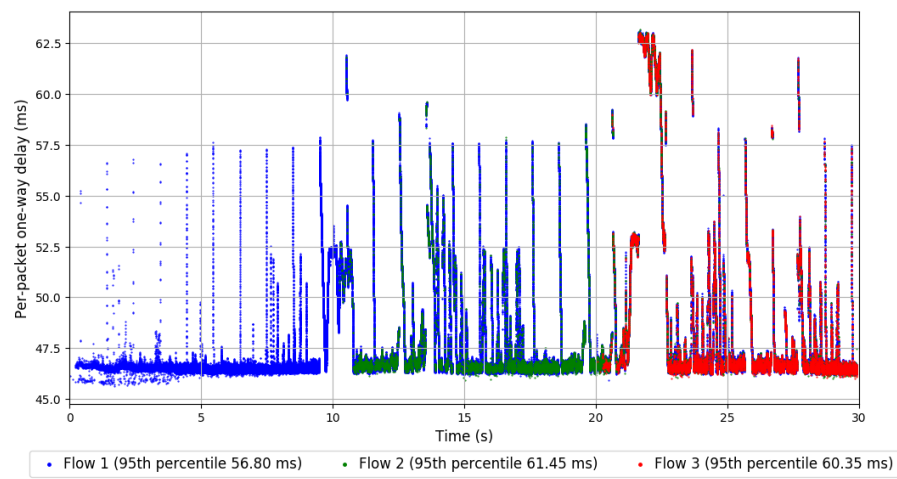
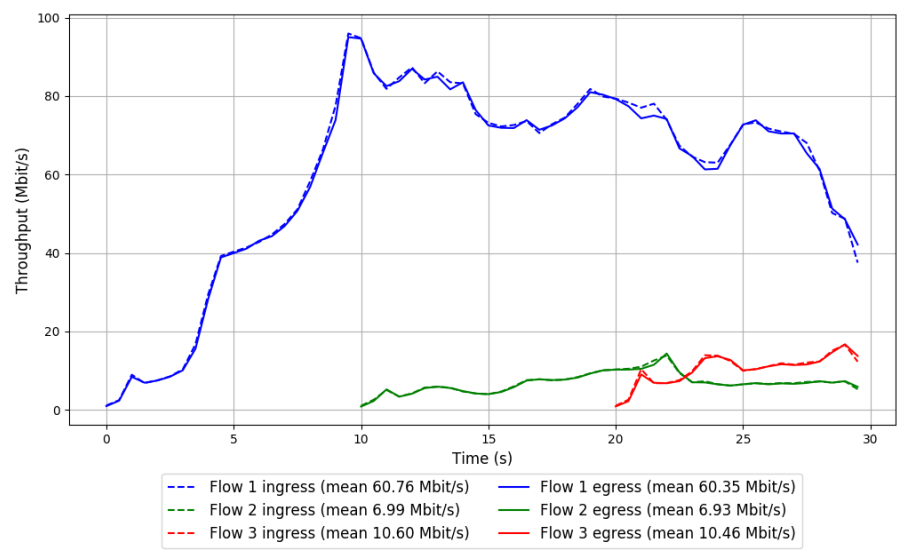


Run 1: Statistics of Vivace-latency

Start at: 2018-01-17 03:04:50
End at: 2018-01-17 03:05:20
Local clock offset: -0.529 ms
Remote clock offset: -3.494 ms

Below is generated by plot.py at 2018-01-17 07:25:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.40 Mbit/s
95th percentile per-packet one-way delay: 57.471 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 60.35 Mbit/s
95th percentile per-packet one-way delay: 56.798 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 61.453 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 60.354 ms
Loss rate: 1.25%

Run 1: Report of Vivace-latency — Data Link

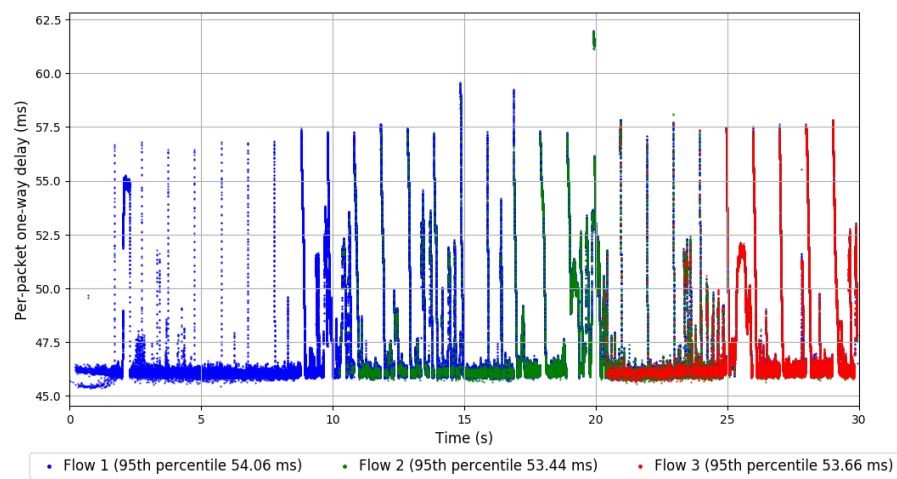
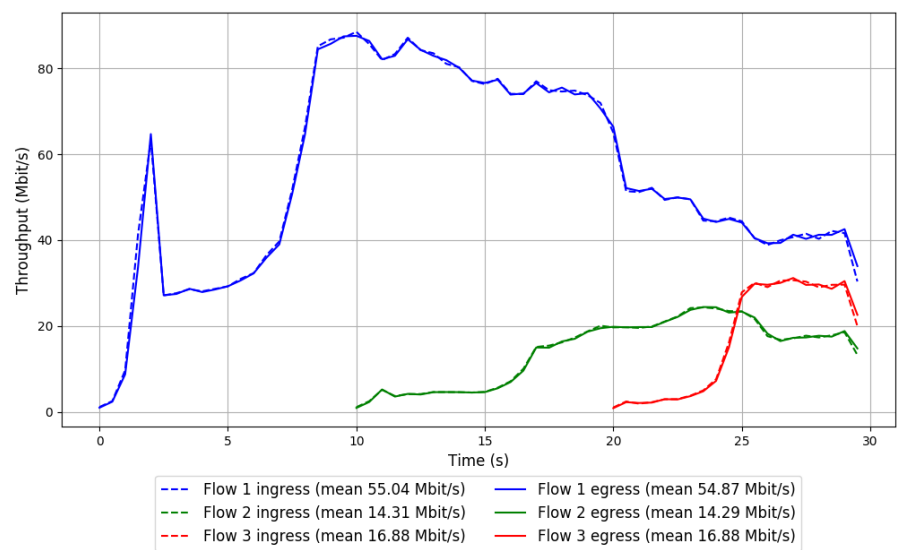


Run 2: Statistics of Vivace-latency

Start at: 2018-01-17 03:27:45
End at: 2018-01-17 03:28:15
Local clock offset: 0.425 ms
Remote clock offset: -0.383 ms

Below is generated by plot.py at 2018-01-17 07:26:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.93 Mbit/s
95th percentile per-packet one-way delay: 53.961 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 54.87 Mbit/s
95th percentile per-packet one-way delay: 54.065 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 53.436 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 0.13%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-17 03:50:47

End at: 2018-01-17 03:51:17

Local clock offset: 1.022 ms

Remote clock offset: 2.646 ms

Below is generated by plot.py at 2018-01-17 07:26:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 57.356 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 62.69 Mbit/s

95th percentile per-packet one-way delay: 57.468 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 57.079 ms

Loss rate: 0.64%

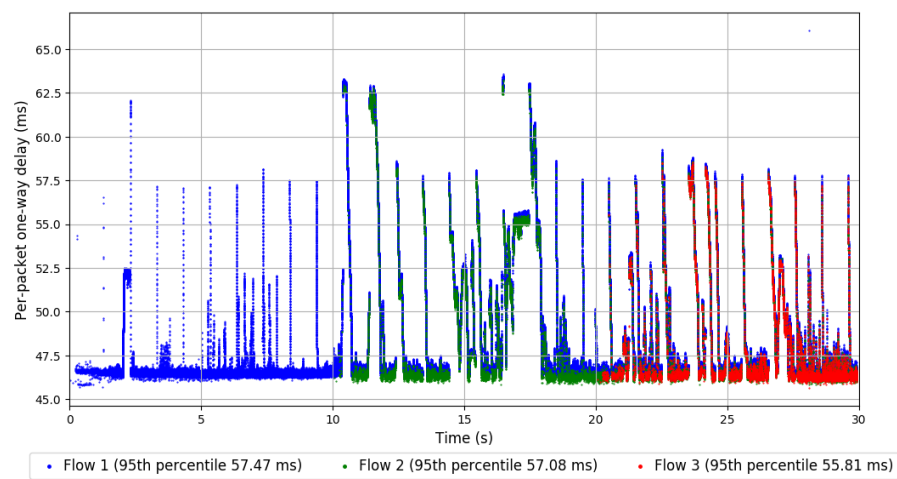
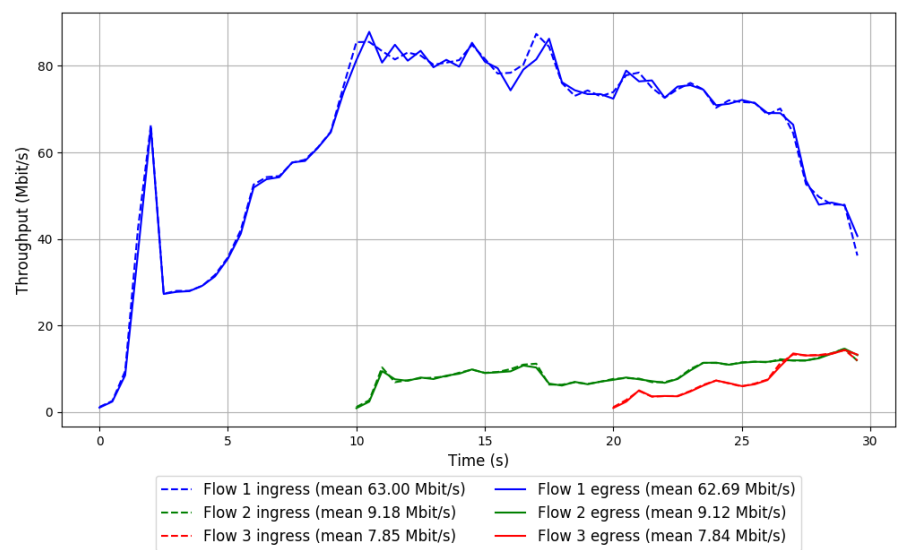
-- Flow 3:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 55.809 ms

Loss rate: 0.13%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-17 04:13:56

End at: 2018-01-17 04:14:26

Local clock offset: 1.36 ms

Remote clock offset: 4.97 ms

Below is generated by plot.py at 2018-01-17 07:26:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.09 Mbit/s

95th percentile per-packet one-way delay: 56.210 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 10.24 Mbit/s

95th percentile per-packet one-way delay: 56.005 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 55.660 ms

Loss rate: 1.30%

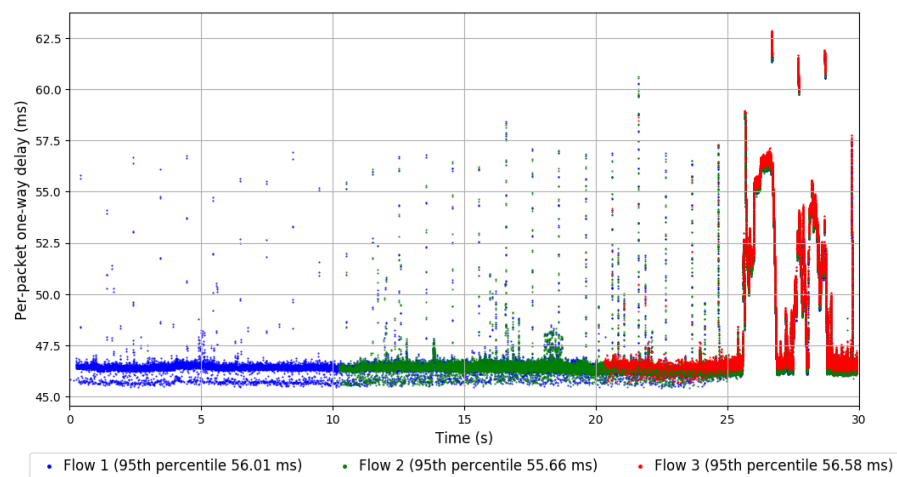
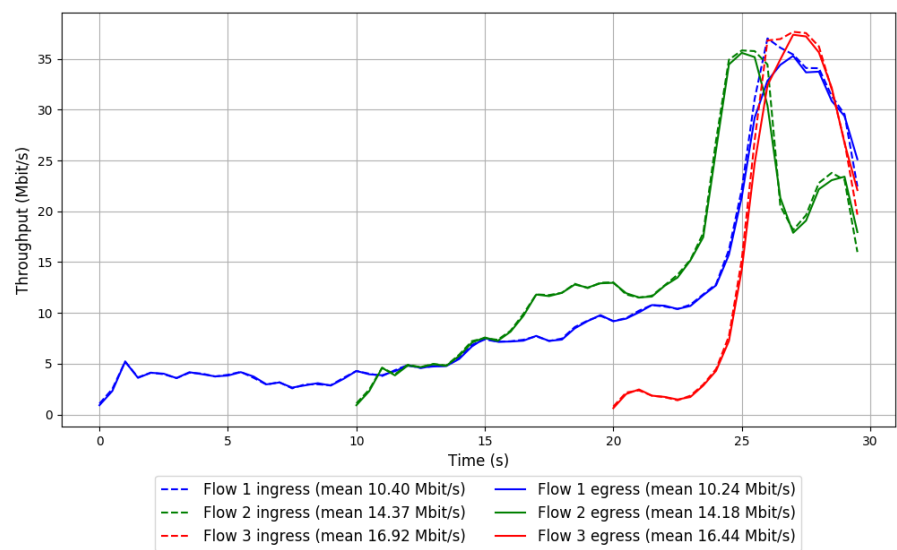
-- Flow 3:

Average throughput: 16.44 Mbit/s

95th percentile per-packet one-way delay: 56.583 ms

Loss rate: 2.82%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-17 04:40:41

End at: 2018-01-17 04:41:11

Local clock offset: 1.959 ms

Remote clock offset: 5.078 ms

Below is generated by plot.py at 2018-01-17 07:26:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 219.922 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 9.77 Mbit/s

95th percentile per-packet one-way delay: 253.990 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 62.513 ms

Loss rate: 0.73%

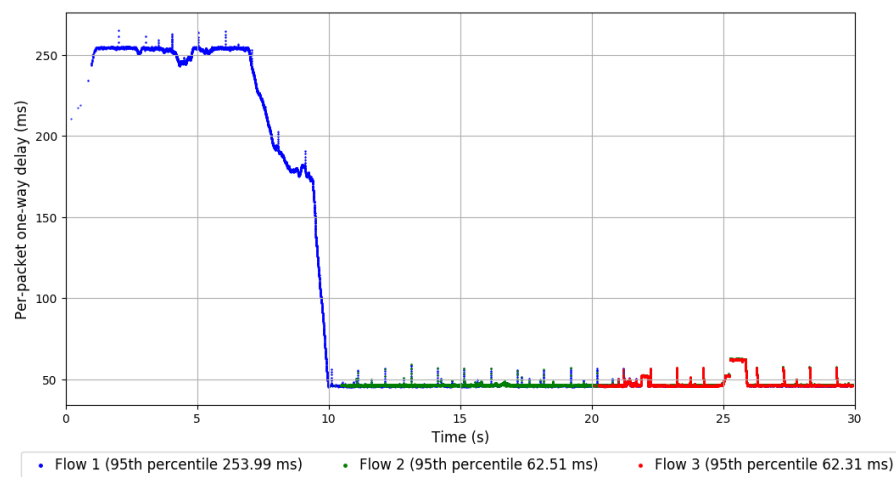
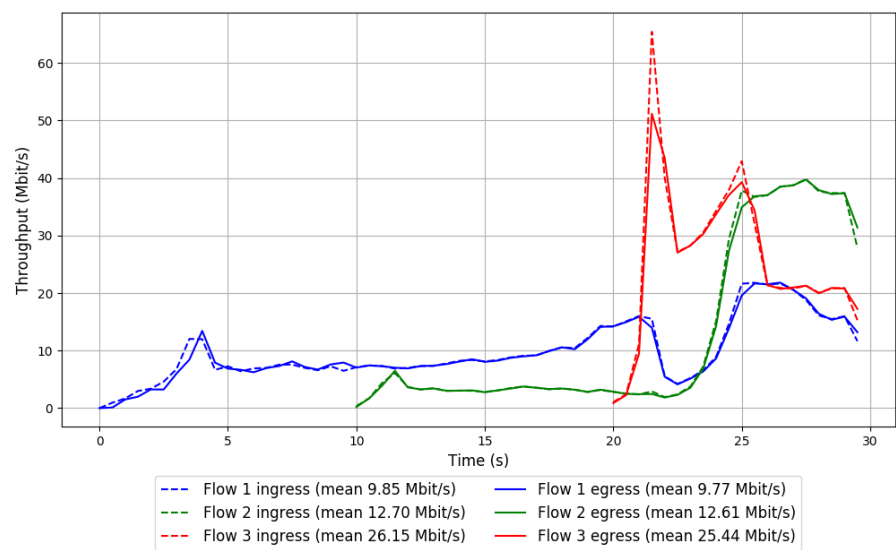
-- Flow 3:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 62.311 ms

Loss rate: 2.73%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-17 05:06:25

End at: 2018-01-17 05:06:55

Local clock offset: 2.336 ms

Remote clock offset: 3.165 ms

Below is generated by plot.py at 2018-01-17 07:26:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 55.334 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 45.01 Mbit/s

95th percentile per-packet one-way delay: 54.865 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 56.124 ms

Loss rate: 0.66%

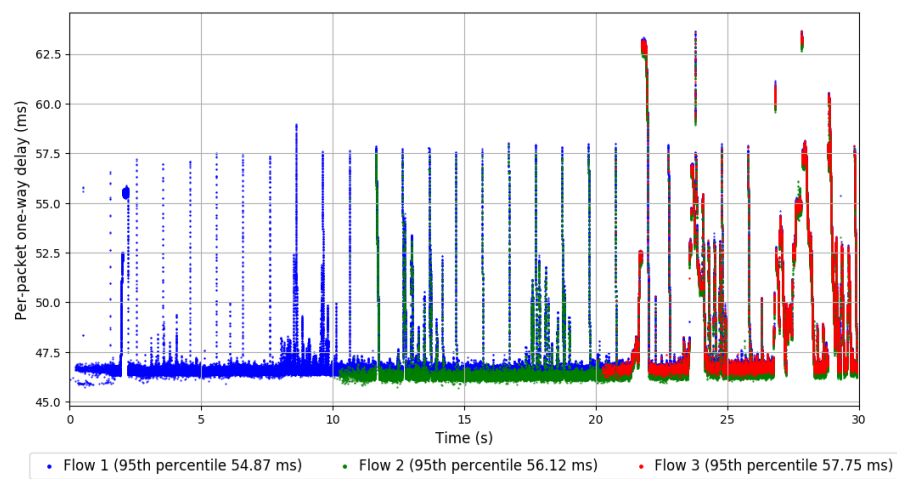
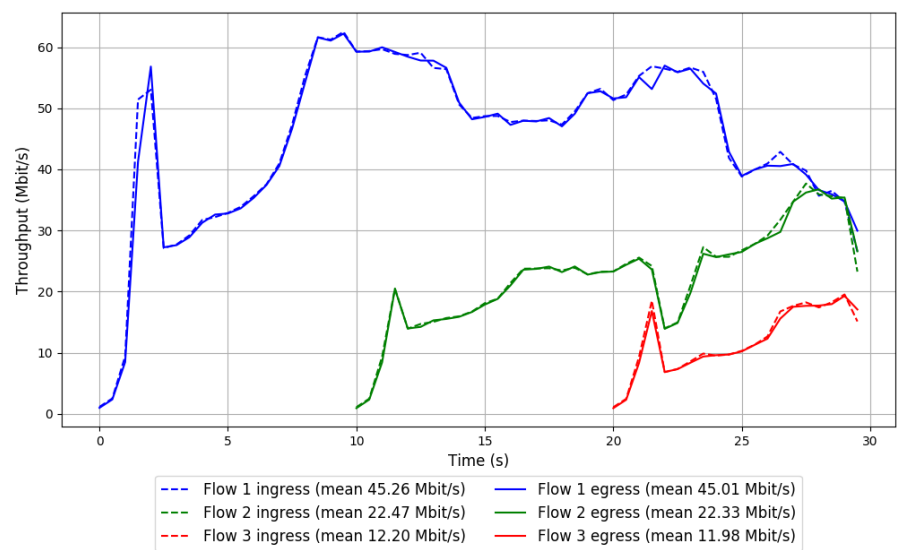
-- Flow 3:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 57.747 ms

Loss rate: 1.79%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-17 05:29:55

End at: 2018-01-17 05:30:25

Local clock offset: 2.573 ms

Remote clock offset: 0.645 ms

Below is generated by plot.py at 2018-01-17 07:27:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: 57.495 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 57.092 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 58.381 ms

Loss rate: 0.69%

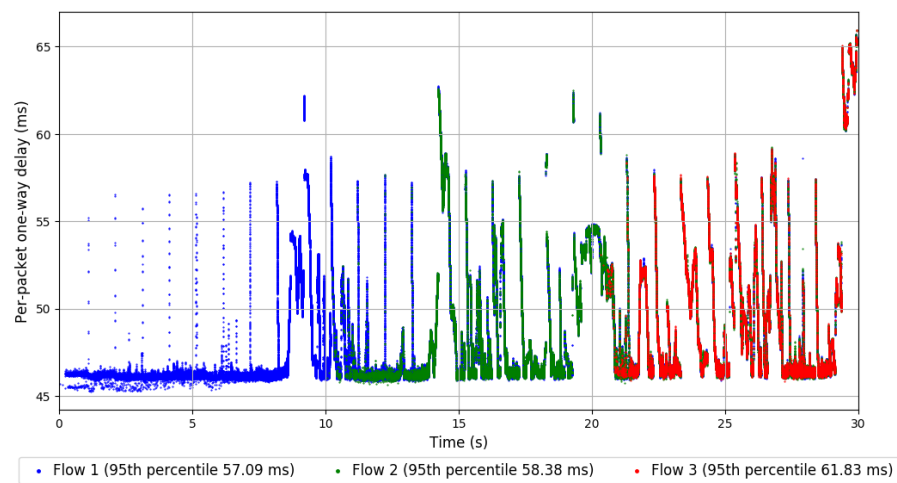
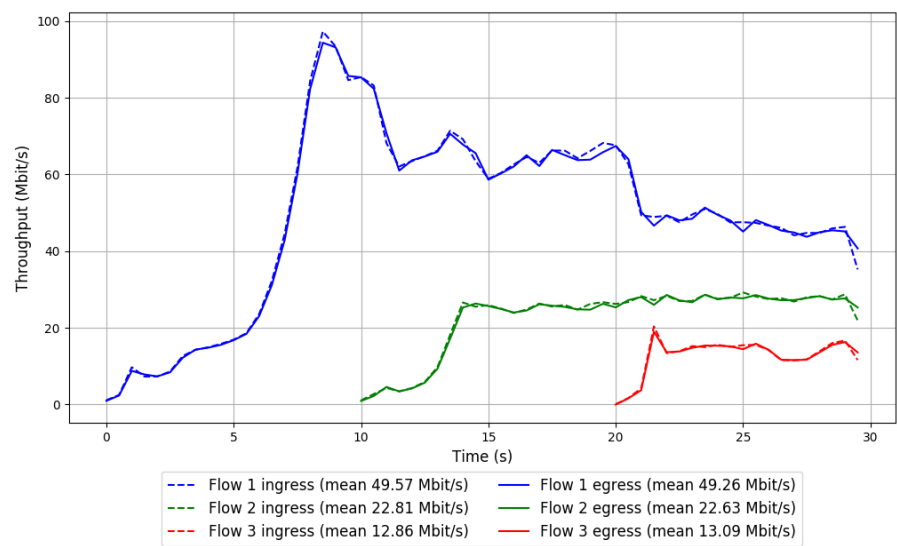
-- Flow 3:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 61.829 ms

Loss rate: 0.70%

Run 7: Report of Vivace-latency — Data Link

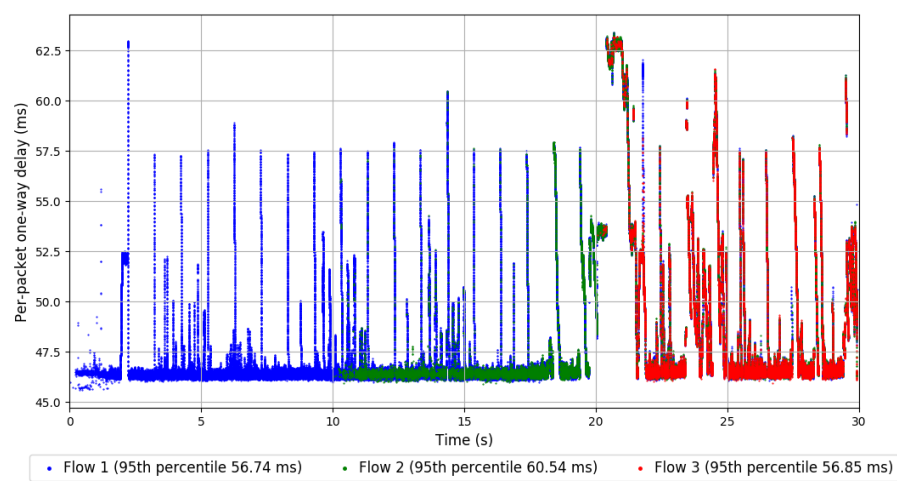
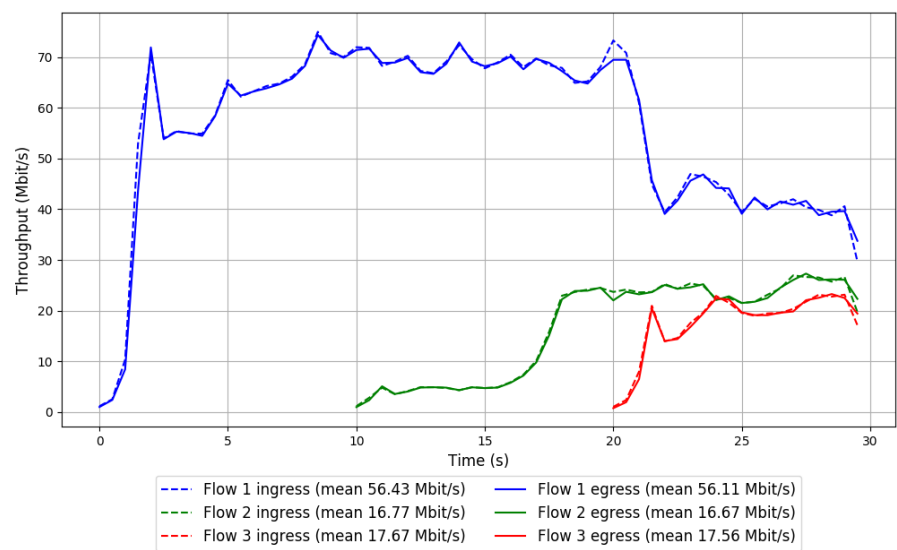


Run 8: Statistics of Vivace-latency

Start at: 2018-01-17 05:52:50
End at: 2018-01-17 05:53:20
Local clock offset: 2.494 ms
Remote clock offset: -0.873 ms

Below is generated by plot.py at 2018-01-17 07:27:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.97 Mbit/s
95th percentile per-packet one-way delay: 57.287 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 56.736 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 16.67 Mbit/s
95th percentile per-packet one-way delay: 60.542 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 17.56 Mbit/s
95th percentile per-packet one-way delay: 56.846 ms
Loss rate: 0.71%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-17 06:15:46

End at: 2018-01-17 06:16:16

Local clock offset: 1.732 ms

Remote clock offset: 1.498 ms

Below is generated by plot.py at 2018-01-17 07:27:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.72 Mbit/s

95th percentile per-packet one-way delay: 262.792 ms

Loss rate: 5.75%

-- Flow 1:

Average throughput: 53.40 Mbit/s

95th percentile per-packet one-way delay: 262.576 ms

Loss rate: 5.51%

-- Flow 2:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 271.750 ms

Loss rate: 8.99%

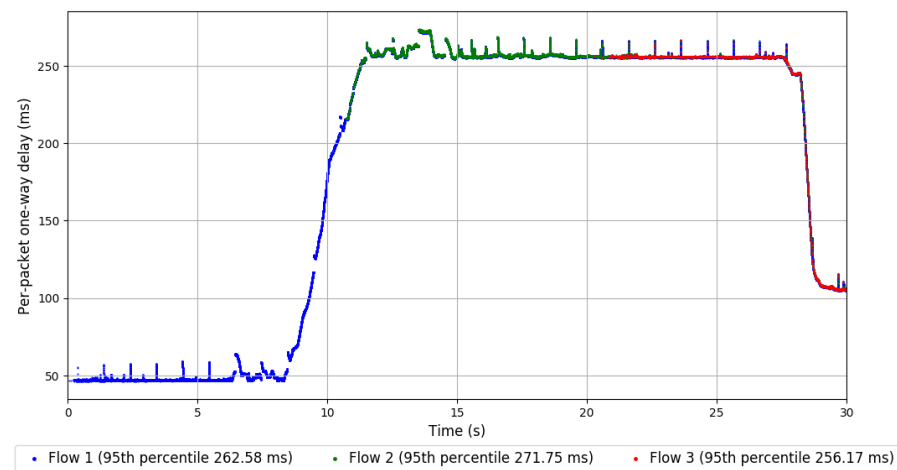
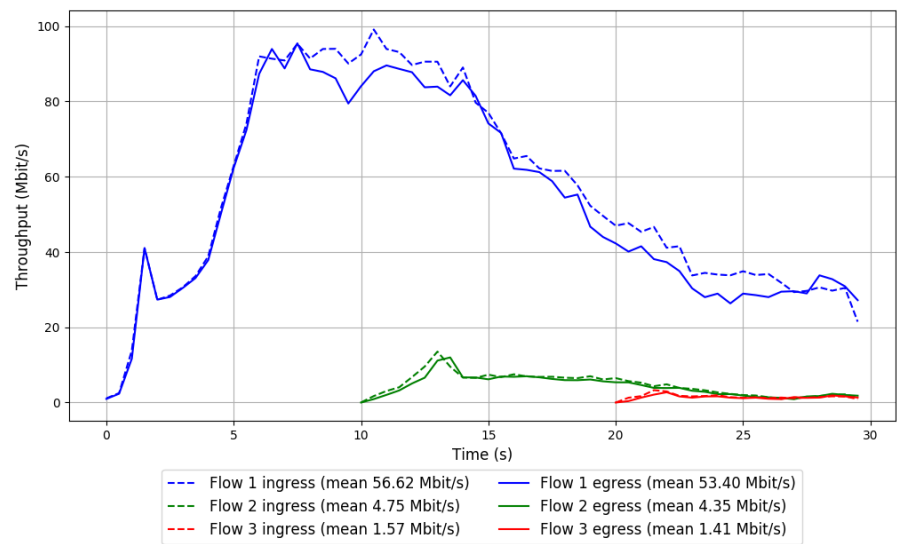
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 256.165 ms

Loss rate: 12.10%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-17 06:40:19

End at: 2018-01-17 06:40:49

Local clock offset: -0.414 ms

Remote clock offset: 3.377 ms

Below is generated by plot.py at 2018-01-17 07:27:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 49.442 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 49.374 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 49.363 ms

Loss rate: 0.04%

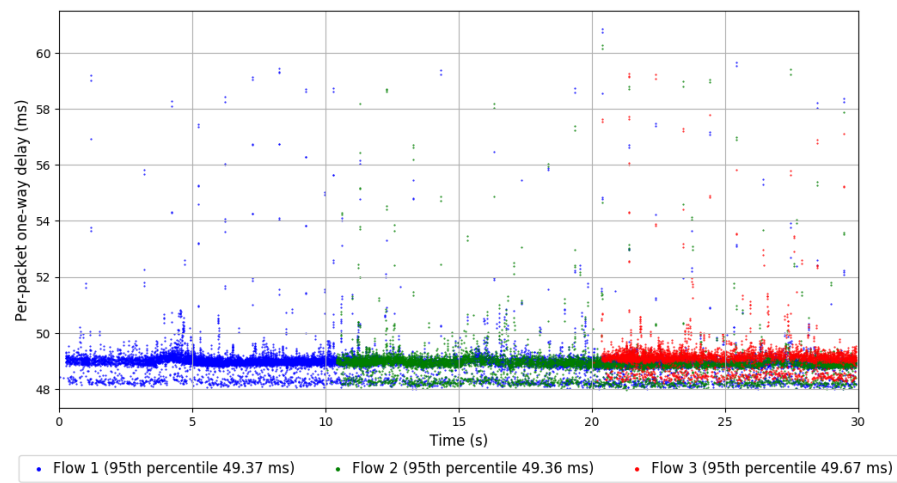
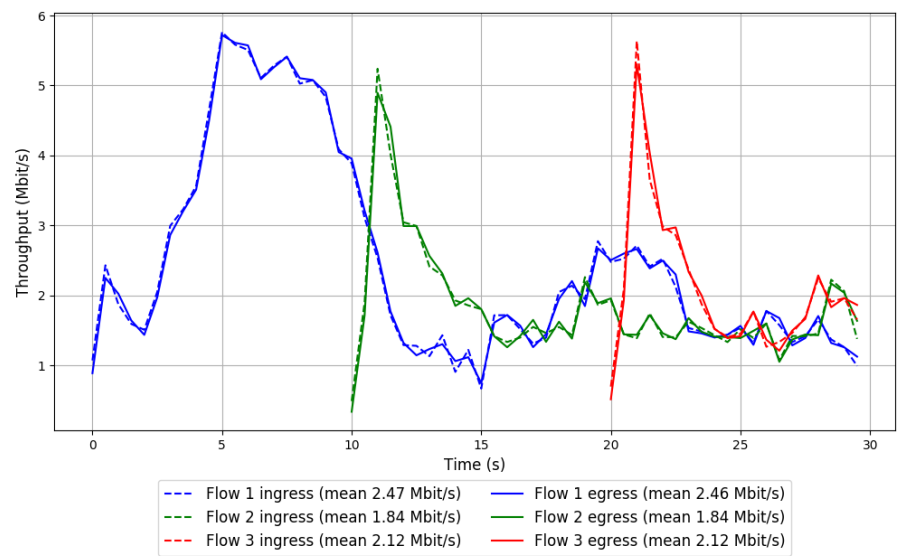
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 49.666 ms

Loss rate: 0.08%

Run 10: Report of Vivace-latency — Data Link

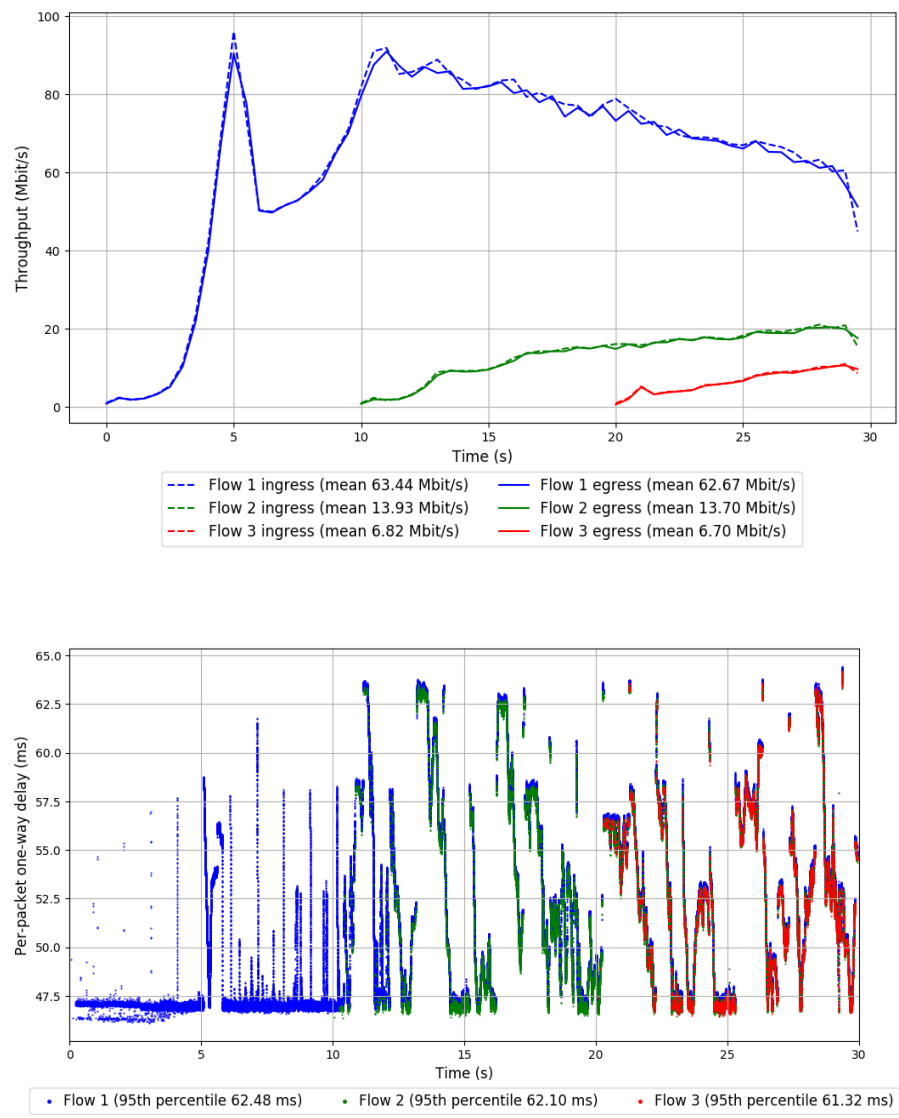


Run 1: Statistics of Vivace-loss

Start at: 2018-01-17 02:54:31
End at: 2018-01-17 02:55:01
Local clock offset: -1.011 ms
Remote clock offset: -4.582 ms

Below is generated by plot.py at 2018-01-17 07:27:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 62.360 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 62.67 Mbit/s
95th percentile per-packet one-way delay: 62.480 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 13.70 Mbit/s
95th percentile per-packet one-way delay: 62.096 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 61.317 ms
Loss rate: 1.74%

Run 1: Report of Vivace-loss — Data Link

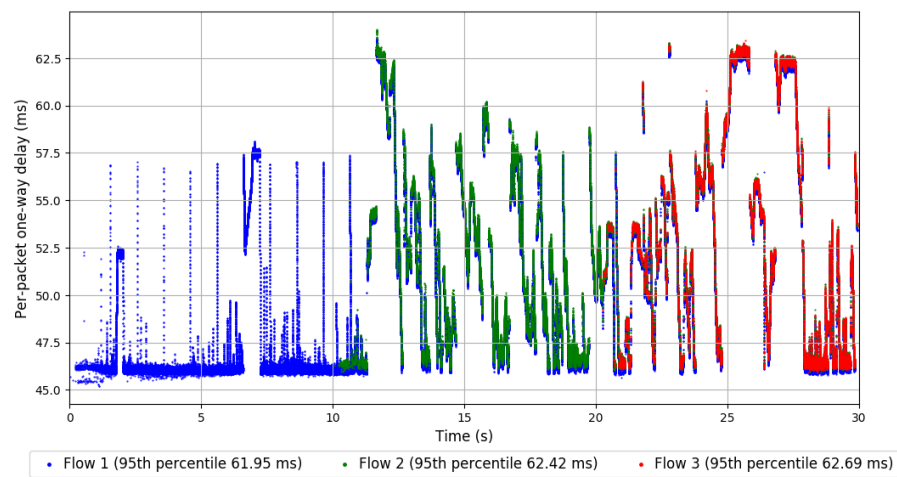
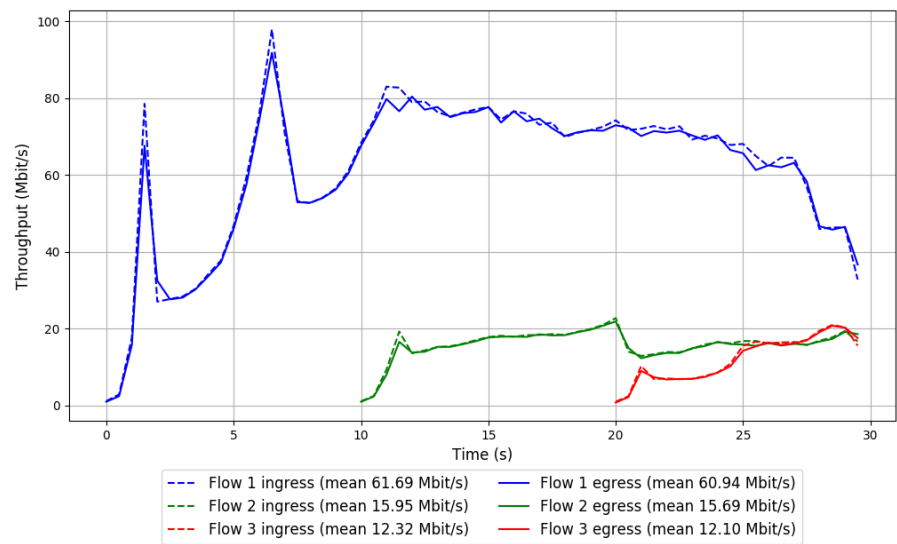


Run 2: Statistics of Vivace-loss

Start at: 2018-01-17 03:17:37
End at: 2018-01-17 03:18:07
Local clock offset: 0.08 ms
Remote clock offset: -1.737 ms

Below is generated by plot.py at 2018-01-17 07:28:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.36 Mbit/s
95th percentile per-packet one-way delay: 62.112 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 61.950 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 15.69 Mbit/s
95th percentile per-packet one-way delay: 62.421 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 62.693 ms
Loss rate: 1.81%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-17 03:40:31

End at: 2018-01-17 03:41:01

Local clock offset: 0.865 ms

Remote clock offset: 1.281 ms

Below is generated by plot.py at 2018-01-17 07:28:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 62.411 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 70.98 Mbit/s

95th percentile per-packet one-way delay: 62.408 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 62.470 ms

Loss rate: 1.76%

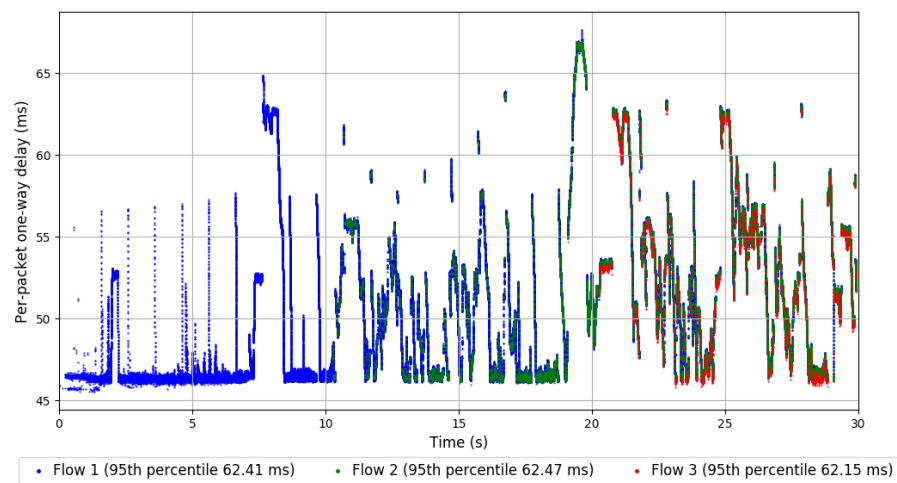
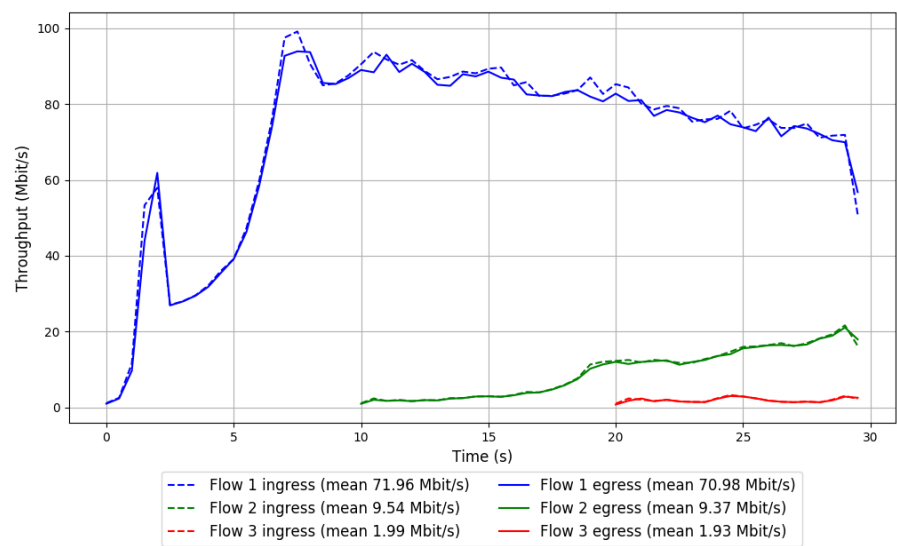
-- Flow 3:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 62.146 ms

Loss rate: 3.02%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-17 04:03:46

End at: 2018-01-17 04:04:16

Local clock offset: 1.3 ms

Remote clock offset: 3.946 ms

Below is generated by plot.py at 2018-01-17 07:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 60.271 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 67.21 Mbit/s

95th percentile per-packet one-way delay: 60.017 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 61.020 ms

Loss rate: 1.35%

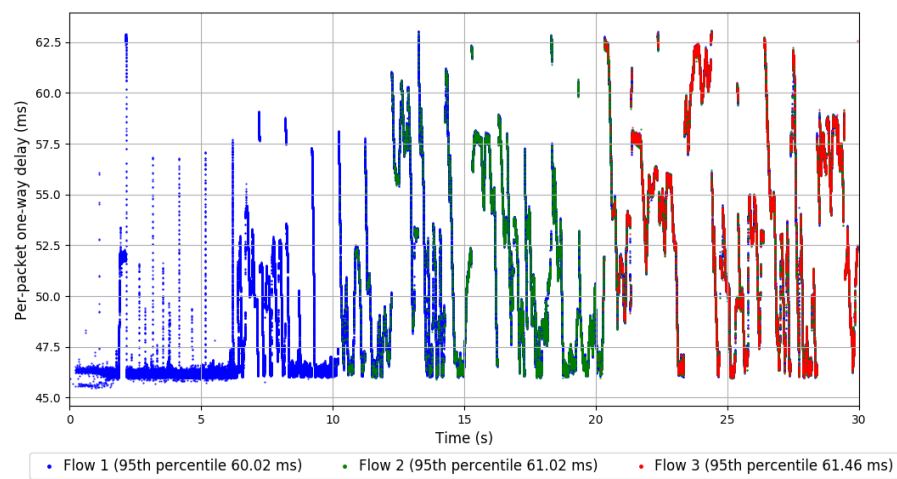
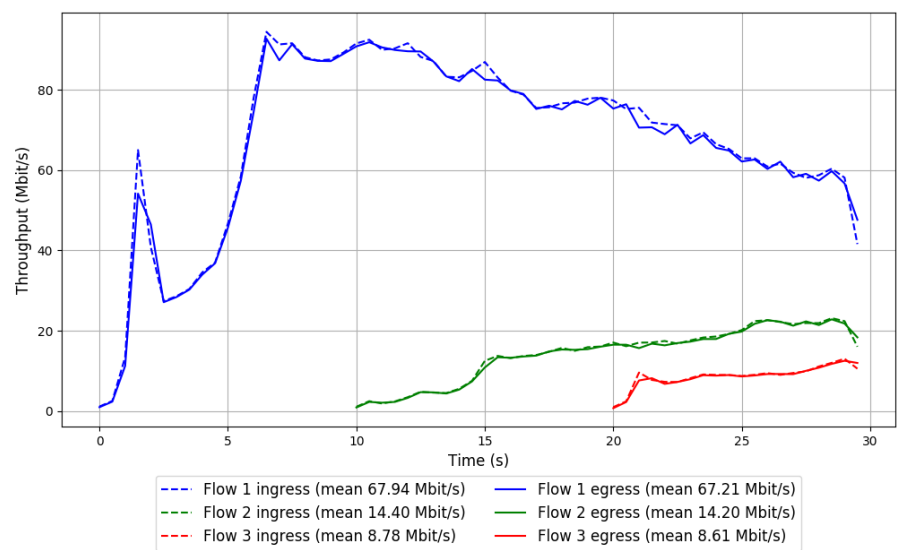
-- Flow 3:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 61.464 ms

Loss rate: 1.83%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-17 04:26:41

End at: 2018-01-17 04:27:11

Local clock offset: 1.132 ms

Remote clock offset: 6.064 ms

Below is generated by plot.py at 2018-01-17 07:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.70 Mbit/s

95th percentile per-packet one-way delay: 63.410 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 63.452 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 63.299 ms

Loss rate: 2.08%

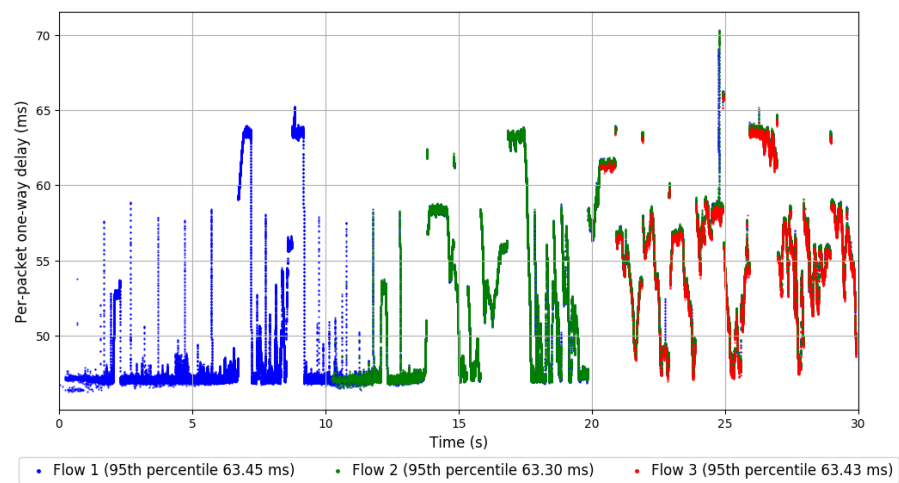
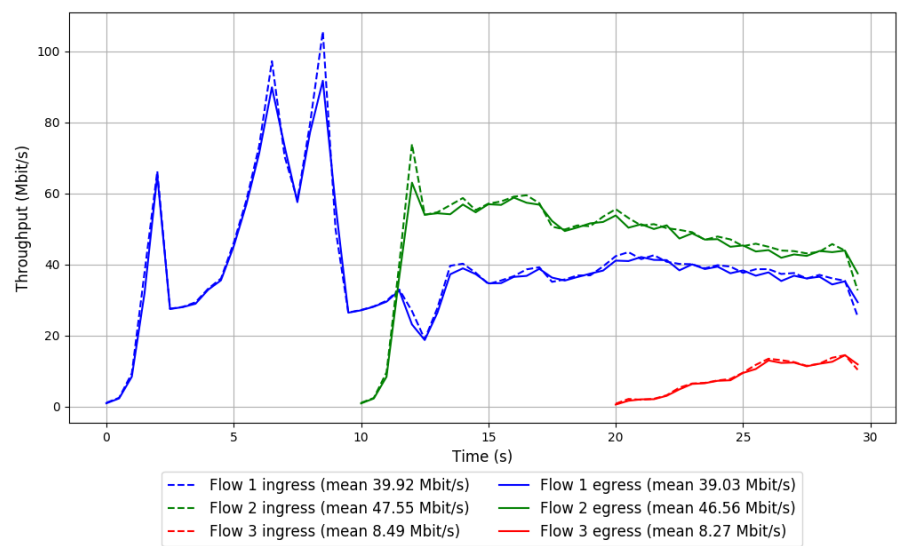
-- Flow 3:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 63.434 ms

Loss rate: 2.70%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-17 04:56:07

End at: 2018-01-17 04:56:37

Local clock offset: 2.187 ms

Remote clock offset: 4.097 ms

Below is generated by plot.py at 2018-01-17 07:28:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.10 Mbit/s

95th percentile per-packet one-way delay: 57.596 ms

Loss rate: 3.11%

-- Flow 1:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 56.847 ms

Loss rate: 3.25%

-- Flow 2:

Average throughput: 14.53 Mbit/s

95th percentile per-packet one-way delay: 61.932 ms

Loss rate: 2.82%

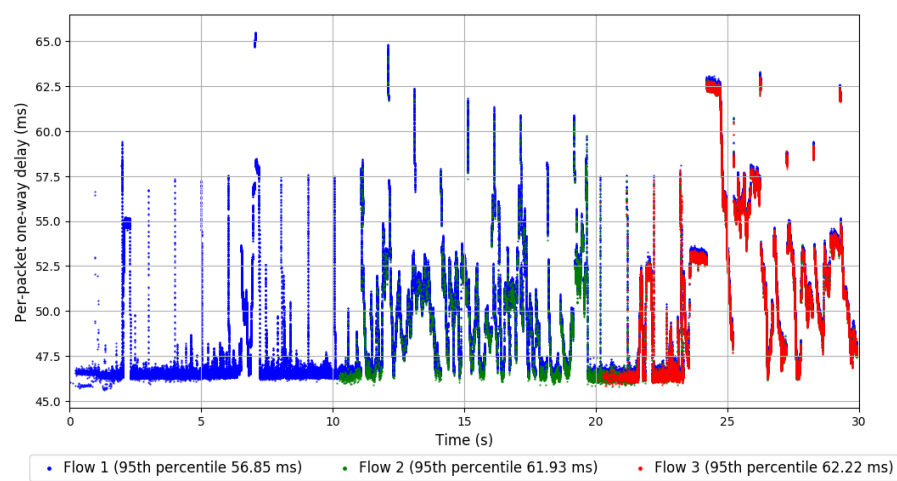
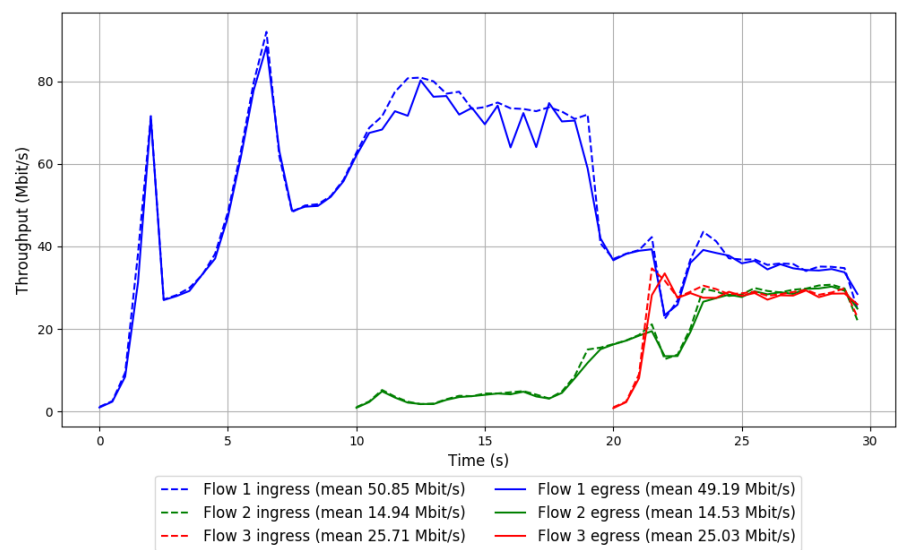
-- Flow 3:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 62.216 ms

Loss rate: 2.60%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-17 05:19:39

End at: 2018-01-17 05:20:09

Local clock offset: 2.674 ms

Remote clock offset: 1.249 ms

Below is generated by plot.py at 2018-01-17 07:28:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 62.299 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 62.299 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 62.323 ms

Loss rate: 1.59%

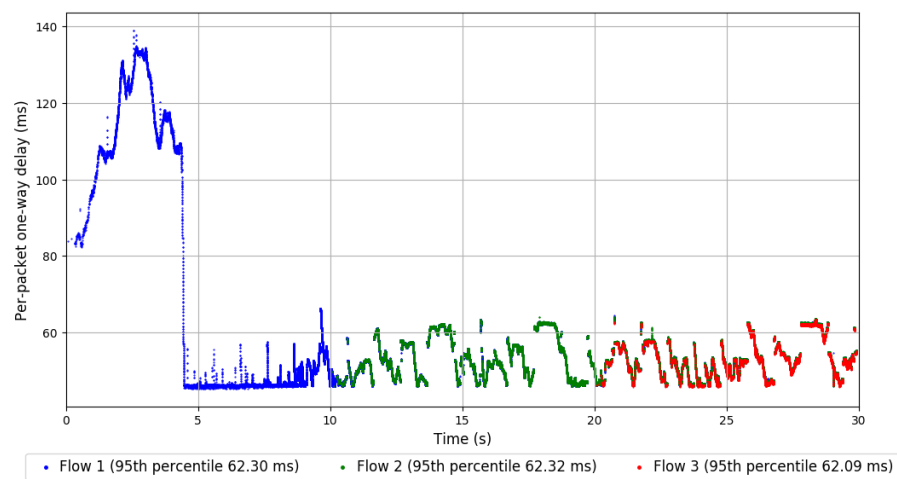
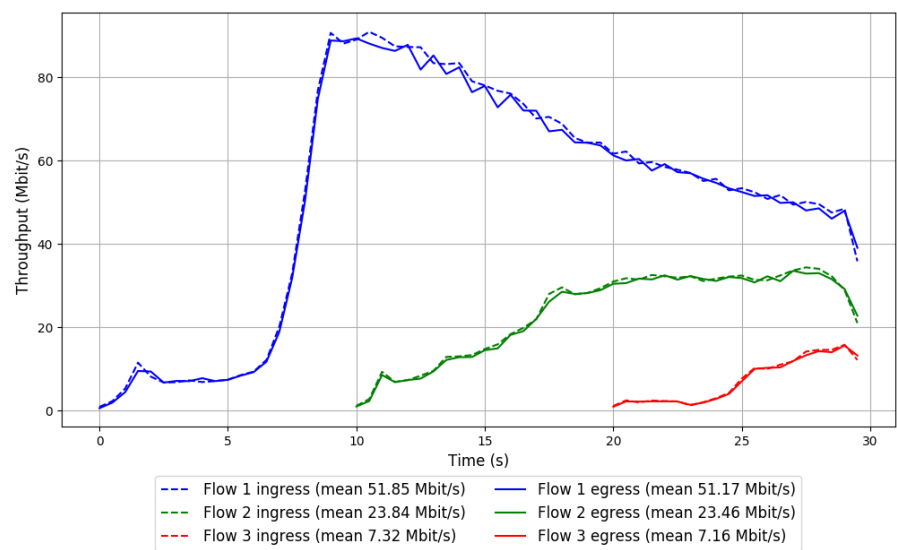
-- Flow 3:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 62.094 ms

Loss rate: 2.07%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-17 05:42:25

End at: 2018-01-17 05:42:55

Local clock offset: 2.013 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-01-17 07:29:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 58.743 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 58.775 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 58.592 ms

Loss rate: 1.63%

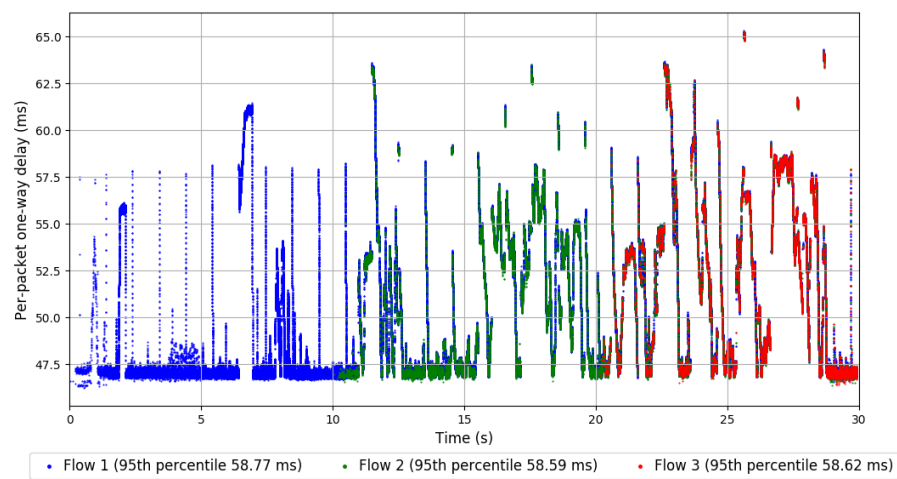
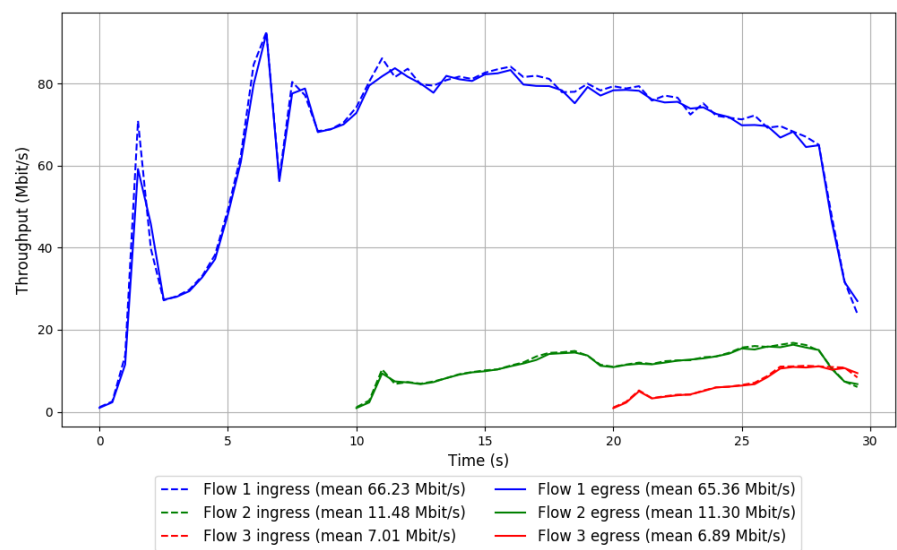
-- Flow 3:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 58.615 ms

Loss rate: 1.81%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-17 06:05:23

End at: 2018-01-17 06:05:53

Local clock offset: 1.94 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2018-01-17 07:29:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.65 Mbit/s

95th percentile per-packet one-way delay: 62.447 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 42.92 Mbit/s

95th percentile per-packet one-way delay: 63.360 ms

Loss rate: 3.11%

-- Flow 2:

Average throughput: 47.86 Mbit/s

95th percentile per-packet one-way delay: 60.382 ms

Loss rate: 2.17%

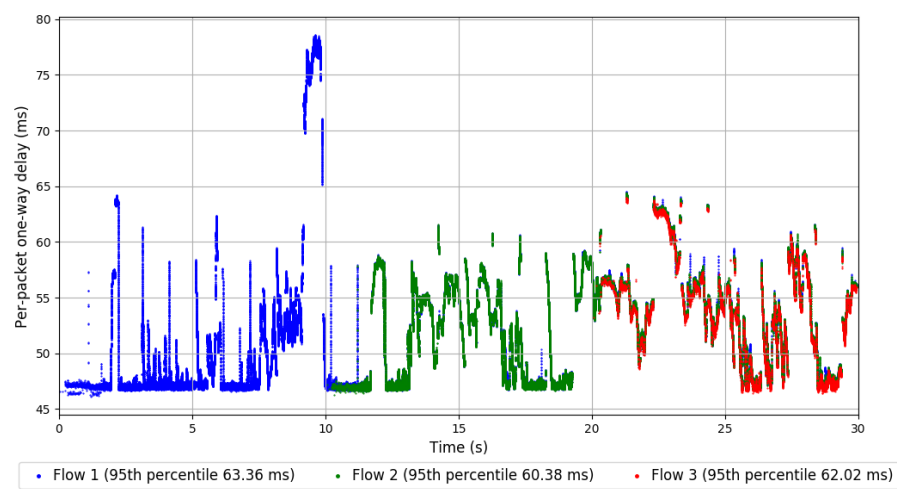
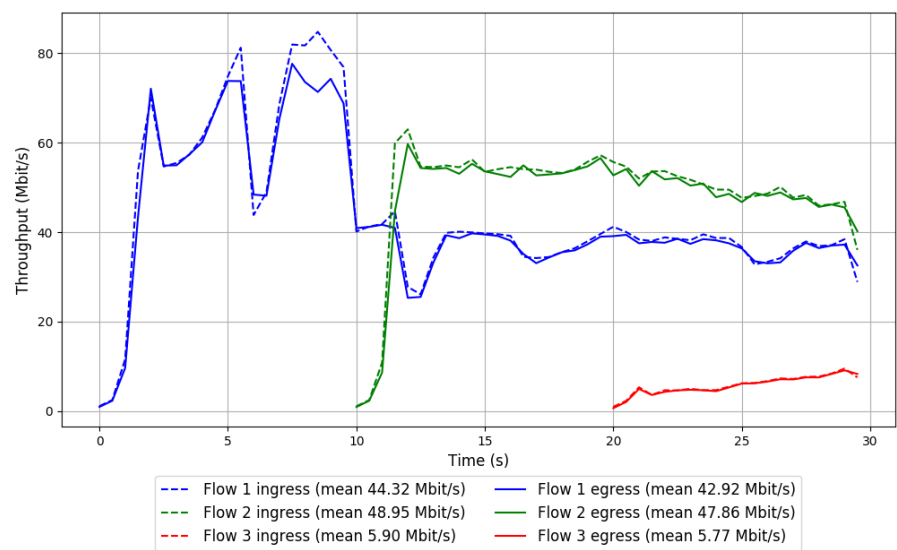
-- Flow 3:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 62.021 ms

Loss rate: 2.12%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-17 06:29:25

End at: 2018-01-17 06:29:55

Local clock offset: 2.599 ms

Remote clock offset: 2.568 ms

Below is generated by plot.py at 2018-01-17 07:29:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 62.717 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 62.579 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 43.28 Mbit/s

95th percentile per-packet one-way delay: 64.457 ms

Loss rate: 2.14%

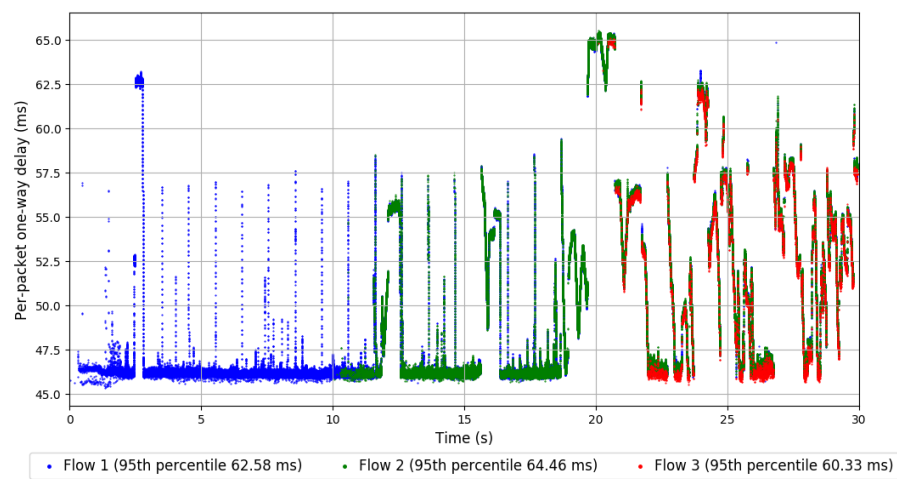
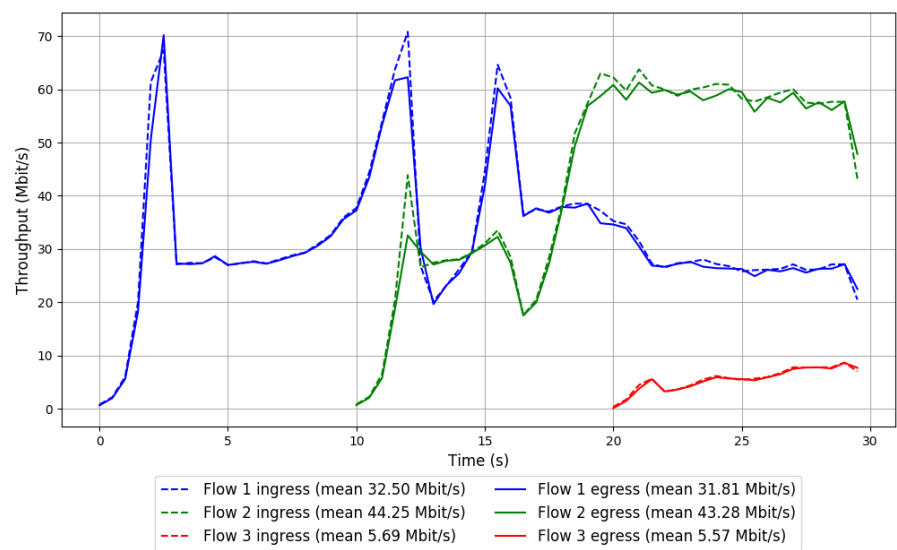
-- Flow 3:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 60.328 ms

Loss rate: 2.20%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-01-17 03:02:27

End at: 2018-01-17 03:02:57

Local clock offset: -0.167 ms

Remote clock offset: -3.732 ms

Run 1: Report of Vivace-LTE — Data Link

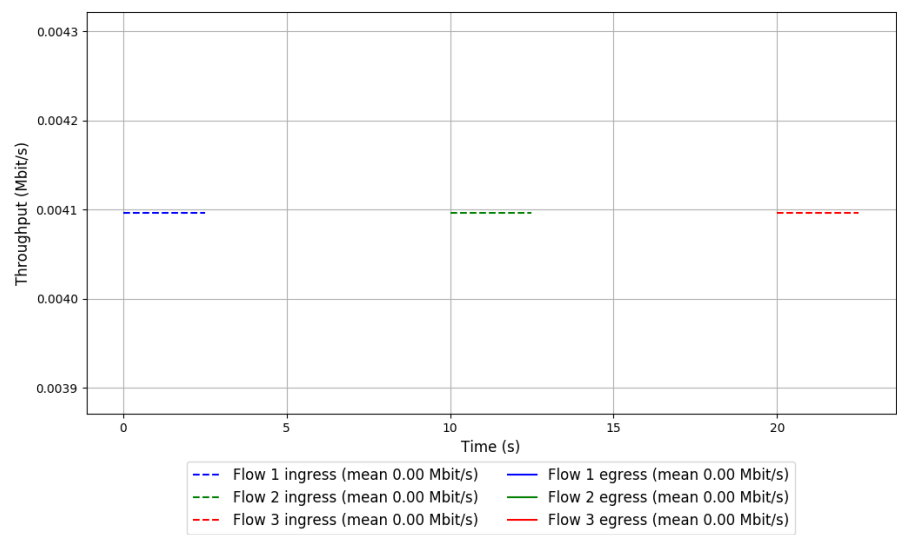


Figure is missing

Run 2: Statistics of Vivace-LTE

Start at: 2018-01-17 03:25:20

End at: 2018-01-17 03:25:50

Local clock offset: 0.598 ms

Remote clock offset: -0.69 ms

Below is generated by plot.py at 2018-01-17 07:29:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.82 Mbit/s

95th percentile per-packet one-way delay: 161.241 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 121.912 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 255.311 ms

Loss rate: 11.59%

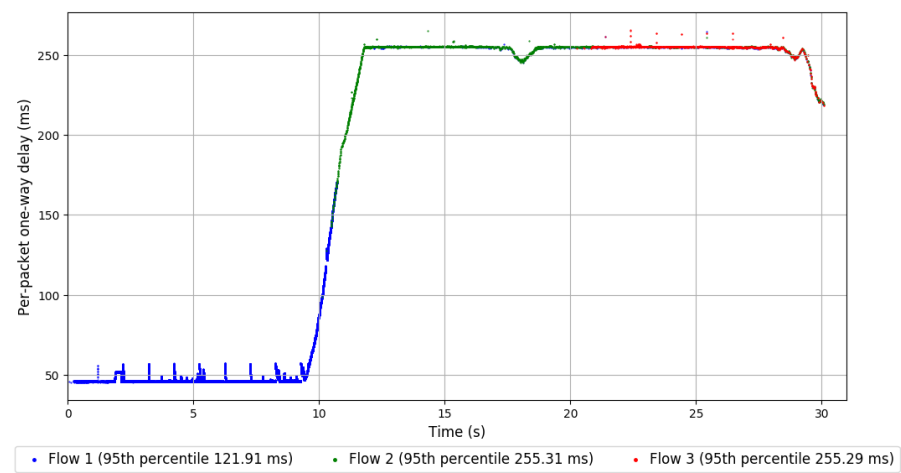
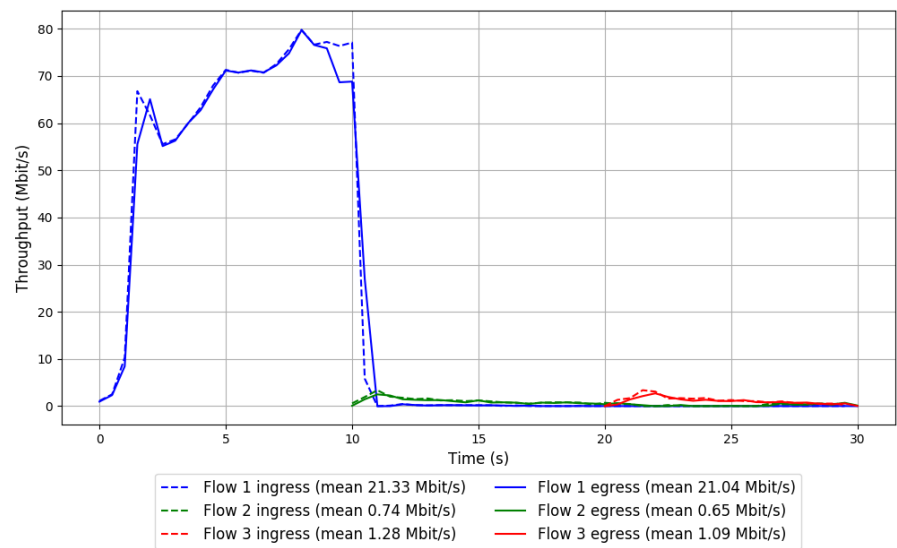
-- Flow 3:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 255.289 ms

Loss rate: 14.60%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-17 03:48:04

End at: 2018-01-17 03:48:34

Local clock offset: 0.926 ms

Remote clock offset: 2.299 ms

Below is generated by plot.py at 2018-01-17 07:30:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 58.120 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 65.30 Mbit/s

95th percentile per-packet one-way delay: 58.288 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 57.222 ms

Loss rate: 1.07%

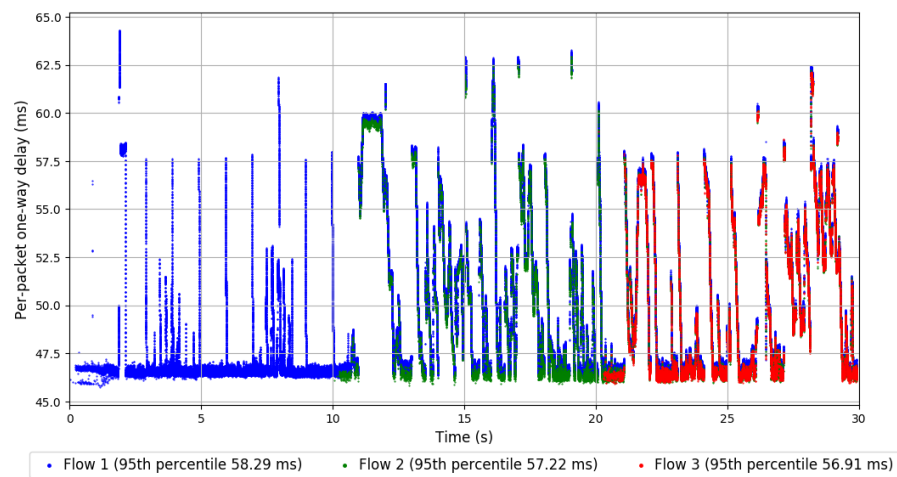
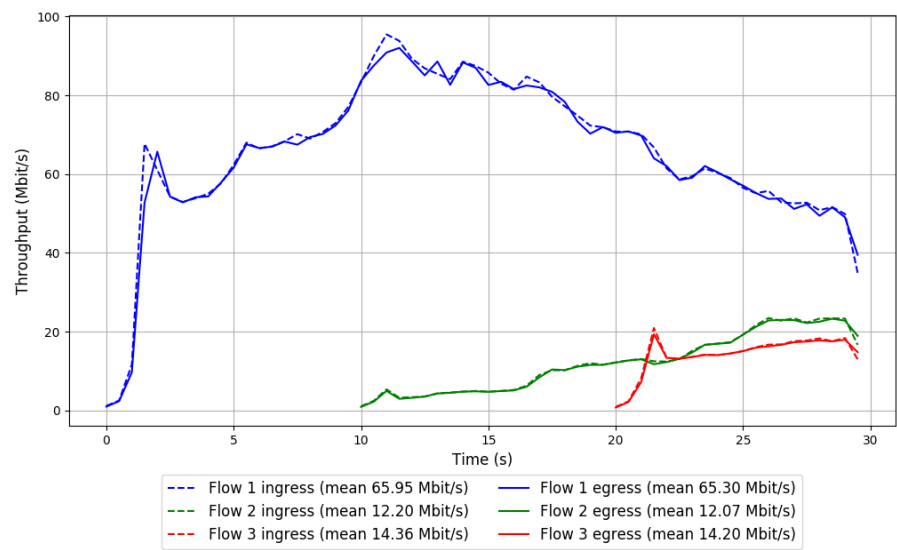
-- Flow 3:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 56.912 ms

Loss rate: 1.23%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-17 04:11:28

End at: 2018-01-17 04:11:58

Local clock offset: 1.668 ms

Remote clock offset: 4.686 ms

Below is generated by plot.py at 2018-01-17 07:30:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 127.720 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 136.207 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 51.970 ms

Loss rate: 1.23%

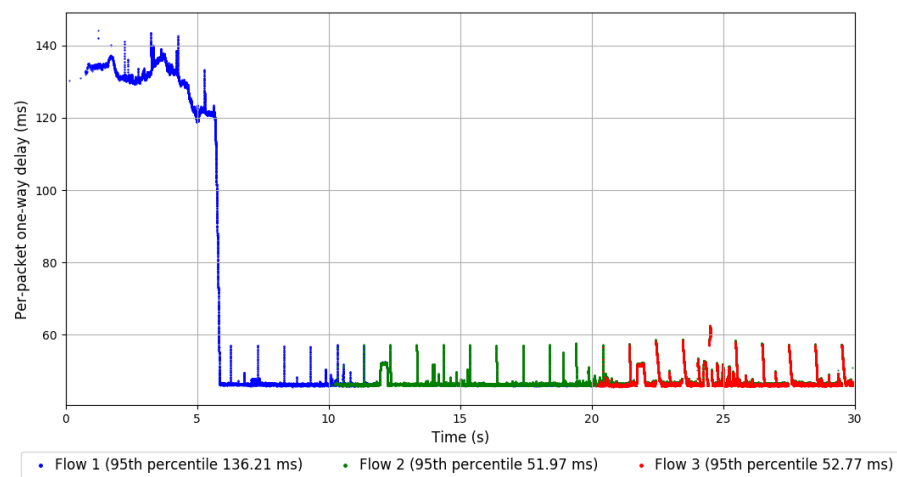
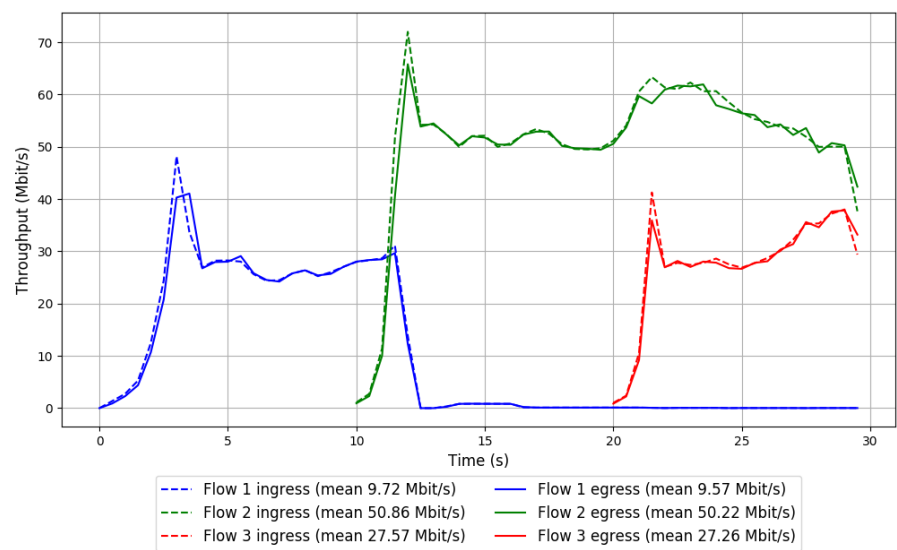
-- Flow 3:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 52.774 ms

Loss rate: 1.13%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-17 04:35:16

End at: 2018-01-17 04:35:46

Local clock offset: 1.961 ms

Remote clock offset: 5.457 ms

Below is generated by plot.py at 2018-01-17 07:30:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.22 Mbit/s

95th percentile per-packet one-way delay: 53.467 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 53.516 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 52.867 ms

Loss rate: 0.63%

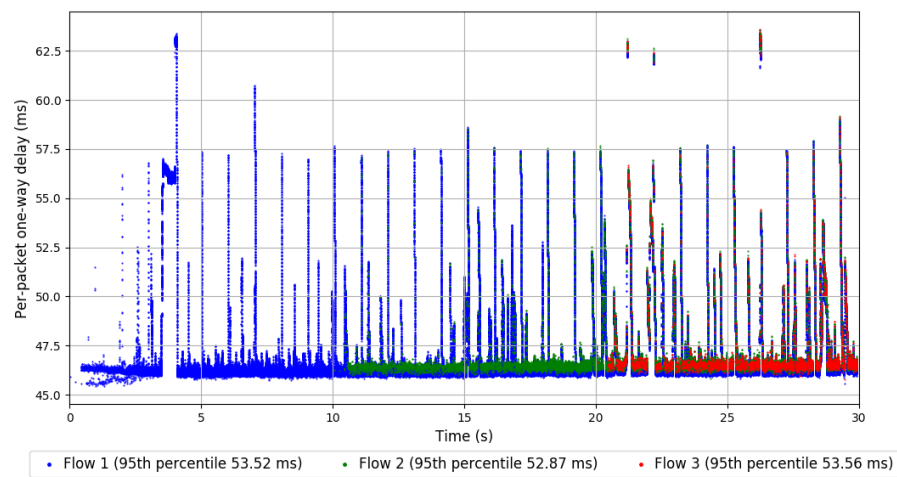
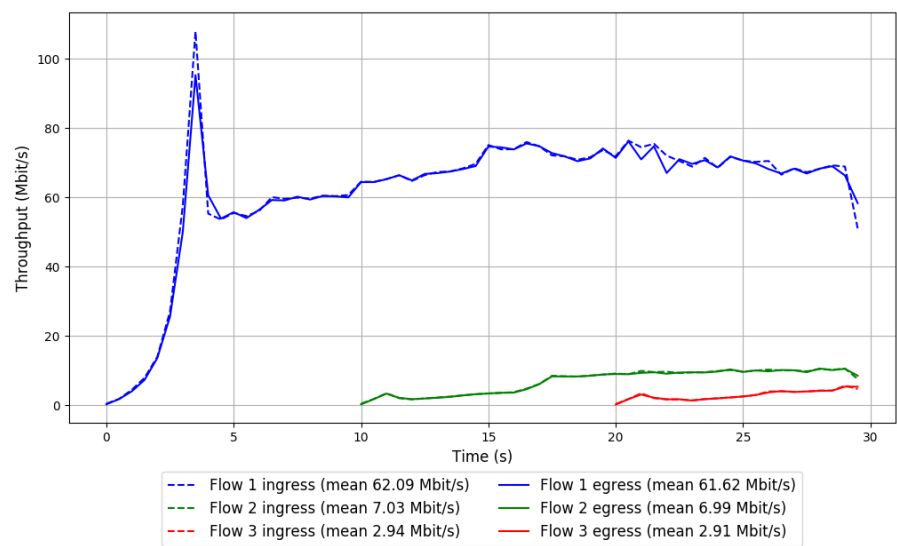
-- Flow 3:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 53.560 ms

Loss rate: 0.77%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-17 05:03:55

End at: 2018-01-17 05:04:25

Local clock offset: 2.187 ms

Remote clock offset: 3.458 ms

Below is generated by plot.py at 2018-01-17 07:30:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 60.653 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 60.329 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 17.26 Mbit/s

95th percentile per-packet one-way delay: 60.907 ms

Loss rate: 1.46%

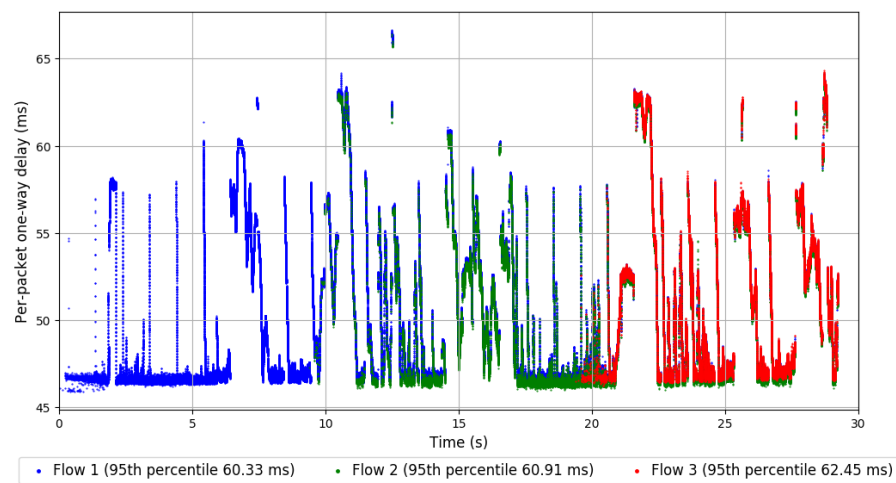
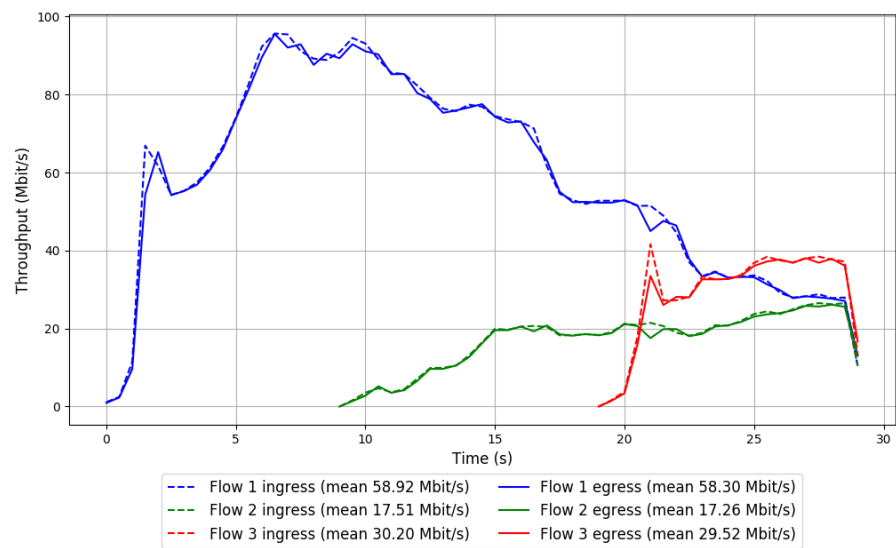
-- Flow 3:

Average throughput: 29.52 Mbit/s

95th percentile per-packet one-way delay: 62.450 ms

Loss rate: 2.21%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-17 05:27:29

End at: 2018-01-17 05:27:59

Local clock offset: 2.617 ms

Remote clock offset: 0.873 ms

Below is generated by plot.py at 2018-01-17 07:30:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 254.985 ms

Loss rate: 5.33%

-- Flow 1:

Average throughput: 4.73 Mbit/s

95th percentile per-packet one-way delay: 255.012 ms

Loss rate: 7.43%

-- Flow 2:

Average throughput: 5.99 Mbit/s

95th percentile per-packet one-way delay: 255.020 ms

Loss rate: 5.94%

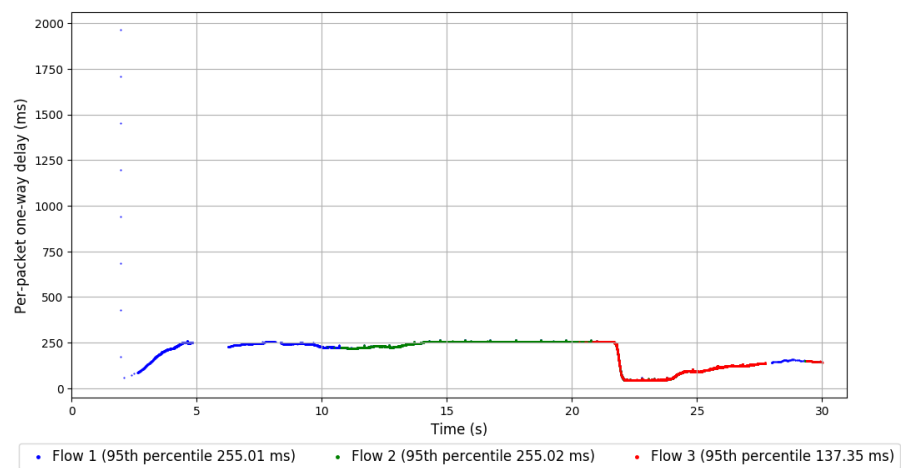
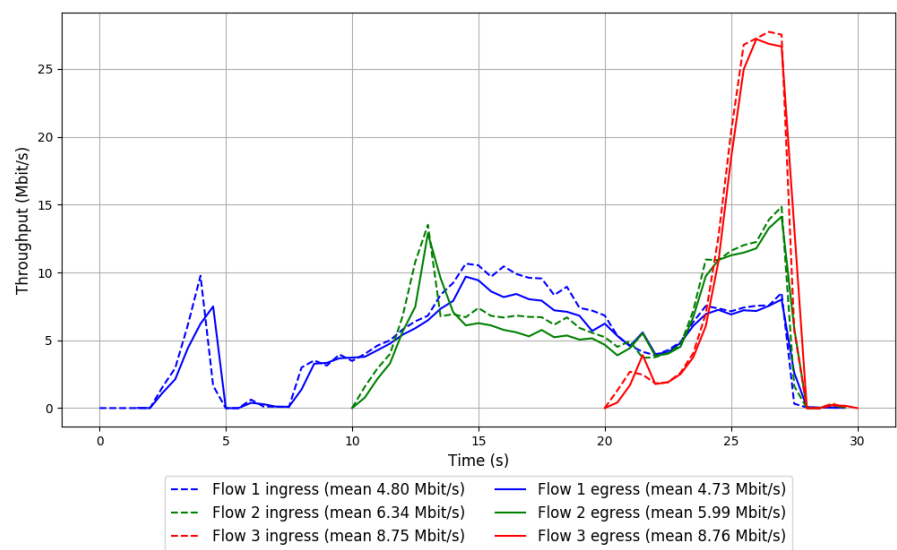
-- Flow 3:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 137.351 ms

Loss rate: 0.96%

Run 7: Report of Vivace-LTE — Data Link

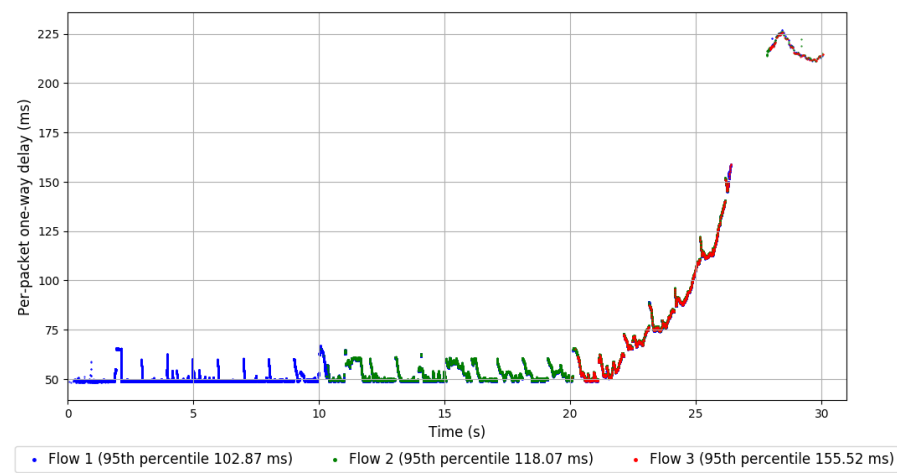
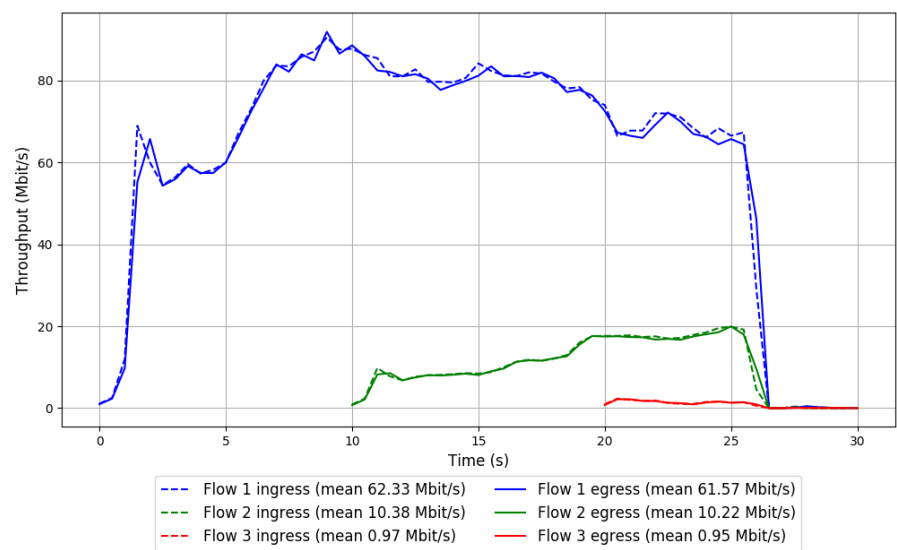


Run 8: Statistics of Vivace-LTE

Start at: 2018-01-17 05:50:10
End at: 2018-01-17 05:50:40
Local clock offset: -0.279 ms
Remote clock offset: -0.744 ms

Below is generated by plot.py at 2018-01-17 07:30:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 110.424 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 102.868 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 118.067 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 155.523 ms
Loss rate: 0.31%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-17 06:13:11

End at: 2018-01-17 06:13:41

Local clock offset: 2.176 ms

Remote clock offset: 1.243 ms

Below is generated by plot.py at 2018-01-17 07:30:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.07 Mbit/s

95th percentile per-packet one-way delay: 61.751 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 61.363 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 62.513 ms

Loss rate: 1.06%

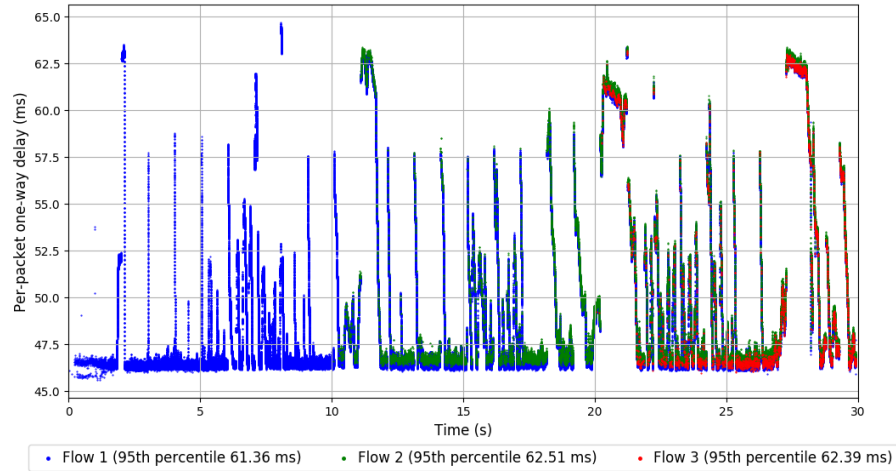
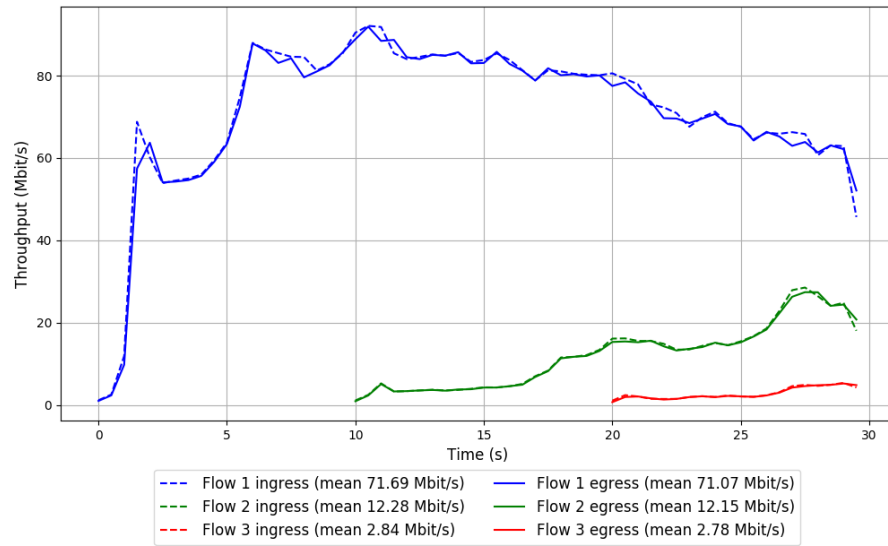
-- Flow 3:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 62.394 ms

Loss rate: 2.23%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-17 06:37:34

End at: 2018-01-17 06:38:04

Local clock offset: 1.826 ms

Remote clock offset: 3.037 ms

Below is generated by plot.py at 2018-01-17 07:30:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 49.020 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 53.055 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 47.349 ms

Loss rate: 0.25%

-- Flow 3:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 48.152 ms

Loss rate: 0.25%

Run 10: Report of Vivace-LTE — Data Link

