

Pantheon Report

Generated at 2017-09-19 00:37:43 (UTC).

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

Repeated the test of 10 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).

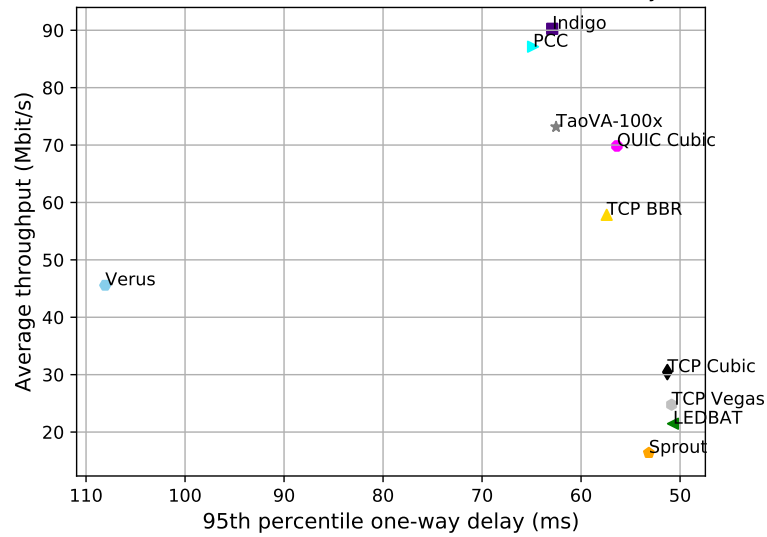
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

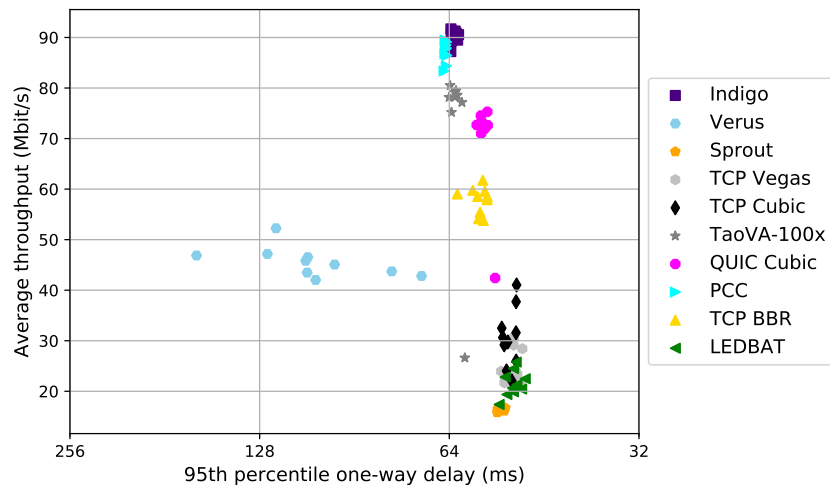
Git summary:

```
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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



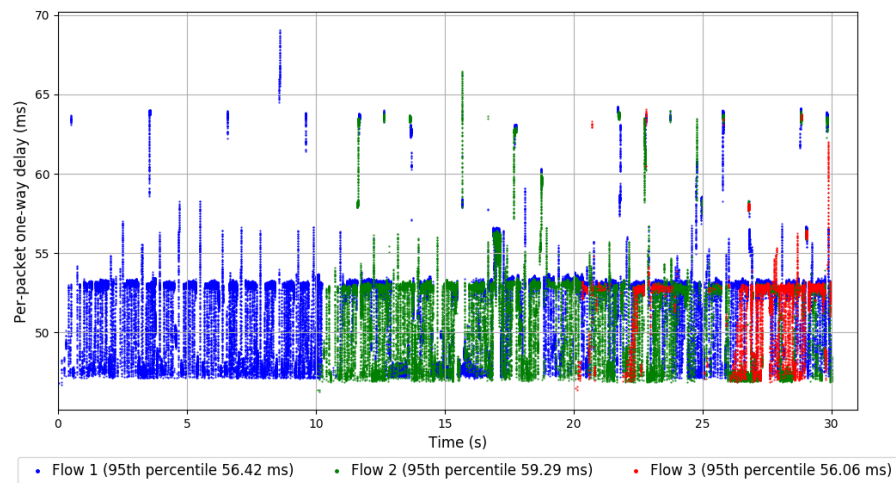
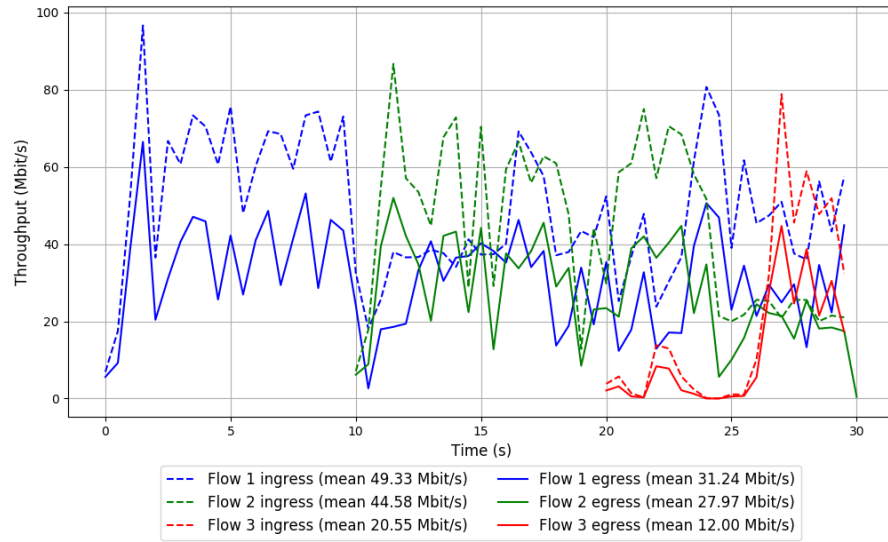
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	31.45	28.54	22.66	57.01	58.57	57.68	35.38	34.93	34.45
TCP Cubic	10	15.16	13.68	18.63	51.07	51.47	51.32	0.69	0.70	0.73
Indigo	10	57.43	33.31	33.43	61.12	63.77	64.03	11.86	23.33	35.36
LEDBAT	10	11.35	10.98	8.47	50.78	50.41	51.16	0.59	0.59	0.57
PCC	10	82.08	5.23	4.80	64.82	65.10	64.67	1.14	1.61	1.94
QUIC Cubic	10	42.26	31.64	20.18	54.88	57.40	58.41	0.56	0.38	0.25
Sprout	10	8.43	8.18	7.59	53.08	53.18	53.26	2.19	3.14	3.78
TaoVA-100x	10	57.38	18.91	12.98	62.10	62.32	61.87	5.79	10.44	15.22
TCP Vegas	10	12.99	11.69	12.04	50.52	51.46	51.61	0.52	0.83	1.08
Verus	10	32.84	14.30	10.69	106.50	87.10	72.84	78.12	64.08	53.70

Run 1: Statistics of TCP BBR

Start at: 2017-09-18 22:04:29
End at: 2017-09-18 22:04:59
Local clock offset: -4.68 ms
Remote clock offset: -1.203 ms

Below is generated by plot.py at 2017-09-19 00:25:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.81 Mbit/s
95th percentile per-packet one-way delay: 56.516 ms
Loss rate: 37.26%
-- Flow 1:
Average throughput: 31.24 Mbit/s
95th percentile per-packet one-way delay: 56.423 ms
Loss rate: 36.67%
-- Flow 2:
Average throughput: 27.97 Mbit/s
95th percentile per-packet one-way delay: 59.294 ms
Loss rate: 37.26%
-- Flow 3:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 56.060 ms
Loss rate: 41.59%

Run 1: Report of TCP BBR — Data Link

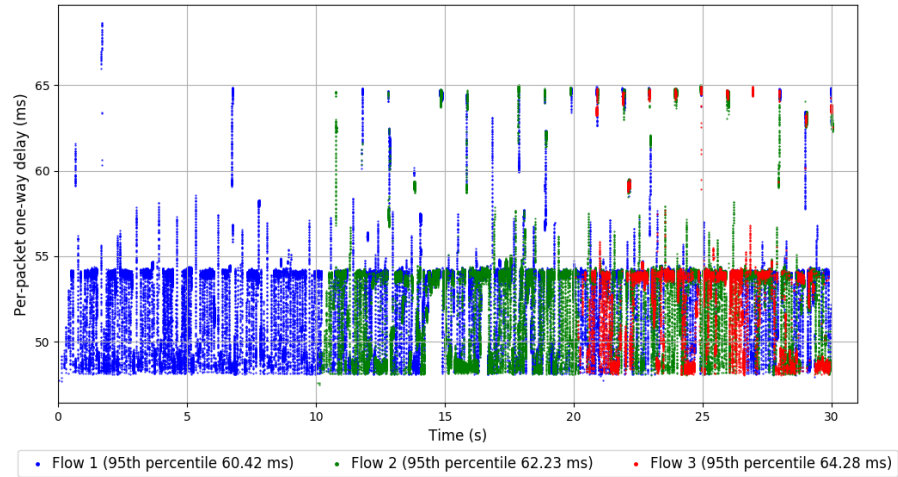
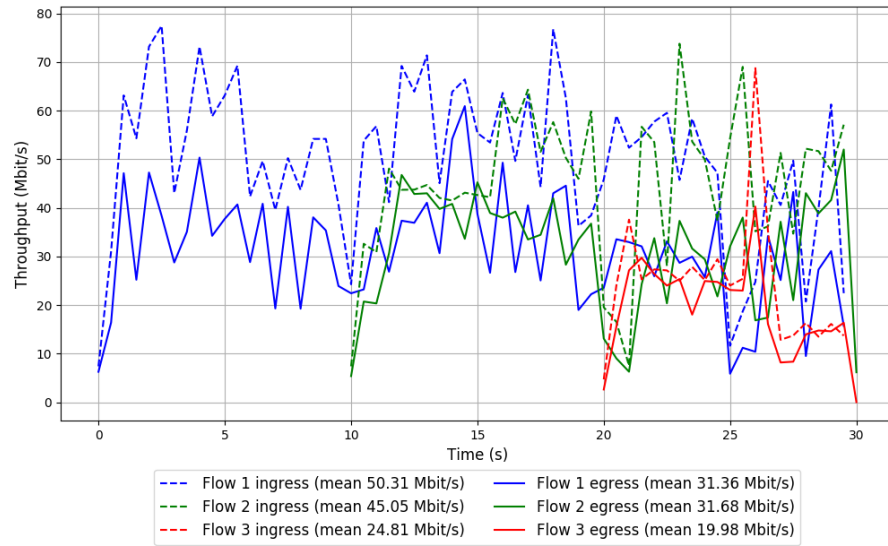


Run 2: Statistics of TCP BBR

Start at: 2017-09-18 22:17:00
End at: 2017-09-18 22:17:30
Local clock offset: -6.36 ms
Remote clock offset: -1.467 ms

Below is generated by plot.py at 2017-09-19 00:26:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 62.148 ms
Loss rate: 33.22%
-- Flow 1:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 60.419 ms
Loss rate: 37.63%
-- Flow 2:
Average throughput: 31.68 Mbit/s
95th percentile per-packet one-way delay: 62.225 ms
Loss rate: 29.63%
-- Flow 3:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 64.275 ms
Loss rate: 19.42%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-18 22:29:24

End at: 2017-09-18 22:29:54

Local clock offset: -7.595 ms

Remote clock offset: -1.48 ms

Below is generated by plot.py at 2017-09-19 00:26:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.42 Mbit/s

95th percentile per-packet one-way delay: 57.185 ms

Loss rate: 35.25%

-- Flow 1:

Average throughput: 33.19 Mbit/s

95th percentile per-packet one-way delay: 55.993 ms

Loss rate: 32.65%

-- Flow 2:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 59.521 ms

Loss rate: 40.44%

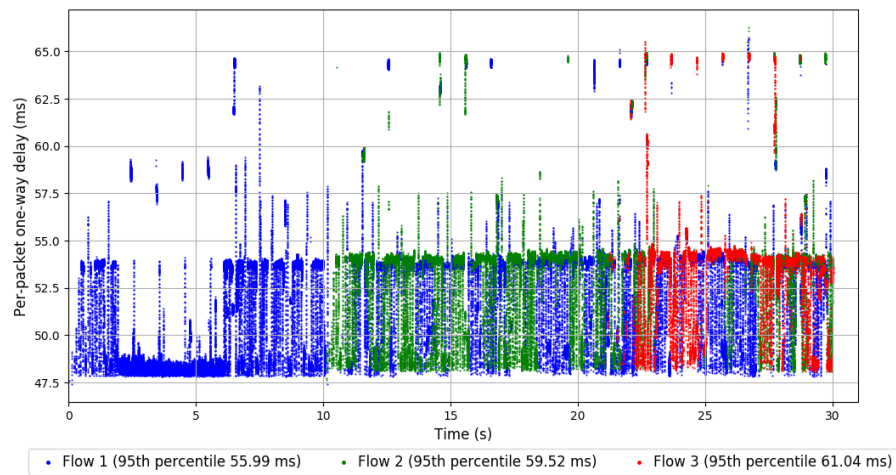
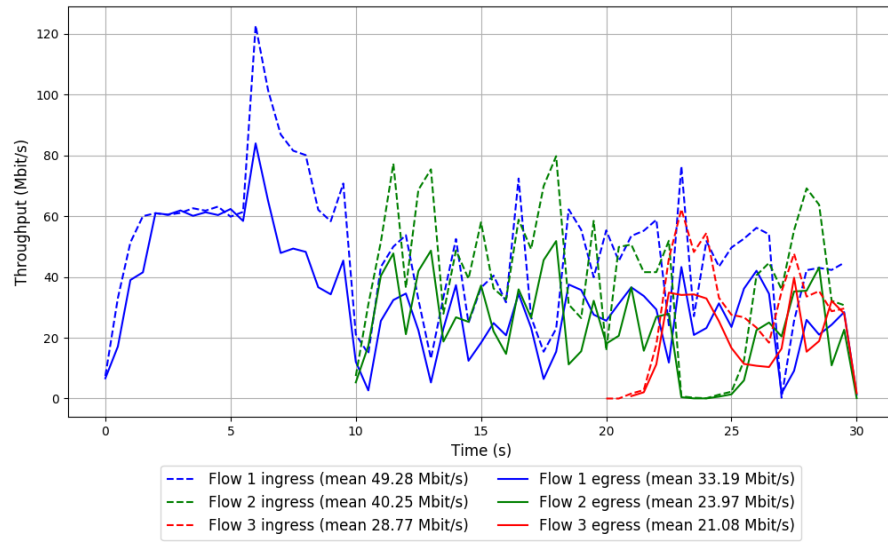
-- Flow 3:

Average throughput: 21.08 Mbit/s

95th percentile per-packet one-way delay: 61.041 ms

Loss rate: 34.10%

Run 3: Report of TCP BBR — Data Link

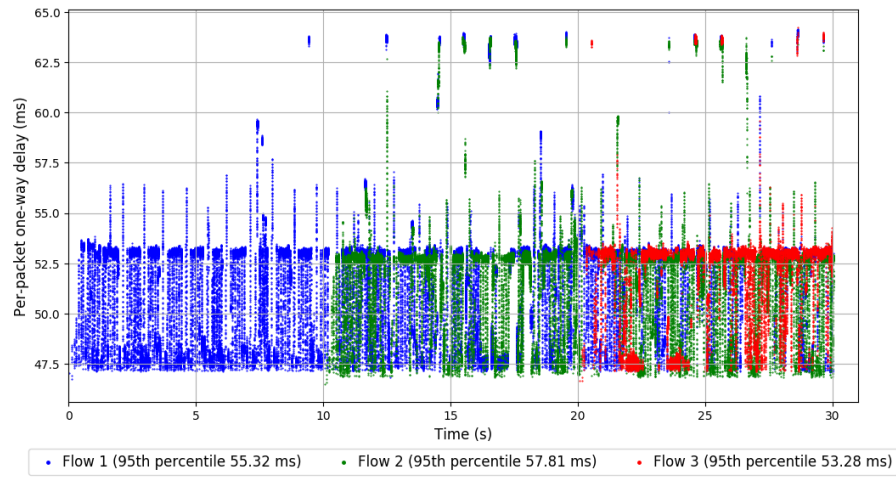
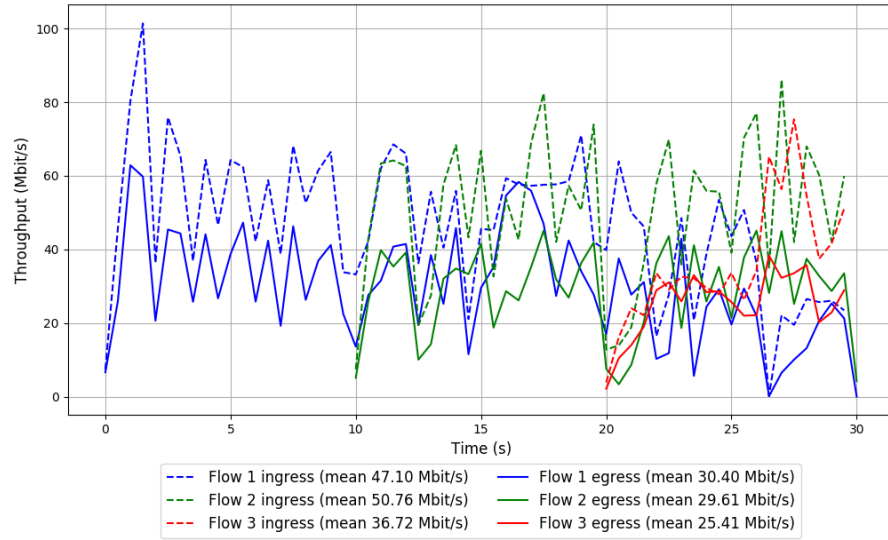


Run 4: Statistics of TCP BBR

Start at: 2017-09-18 22:41:49
End at: 2017-09-18 22:42:19
Local clock offset: -6.672 ms
Remote clock offset: -1.743 ms

Below is generated by plot.py at 2017-09-19 00:26:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.52 Mbit/s
95th percentile per-packet one-way delay: 55.732 ms
Loss rate: 37.08%
-- Flow 1:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 55.319 ms
Loss rate: 35.44%
-- Flow 2:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 57.813 ms
Loss rate: 41.65%
-- Flow 3:
Average throughput: 25.41 Mbit/s
95th percentile per-packet one-way delay: 53.285 ms
Loss rate: 30.74%

Run 4: Report of TCP BBR — Data Link

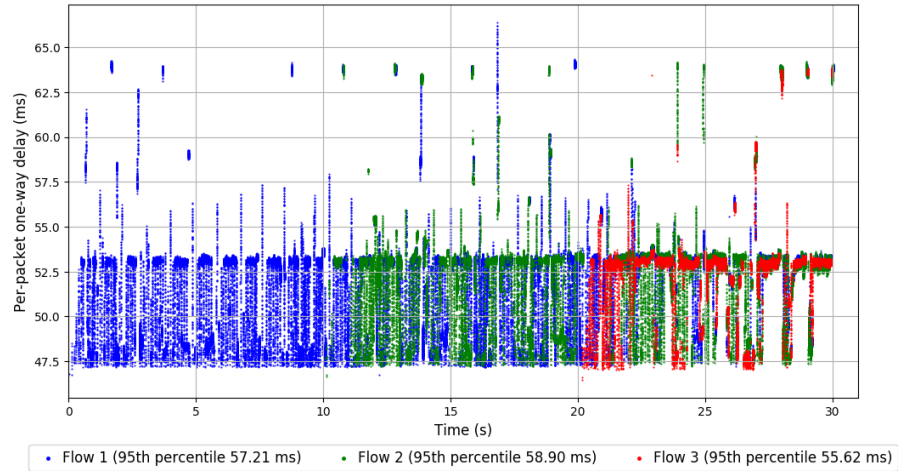
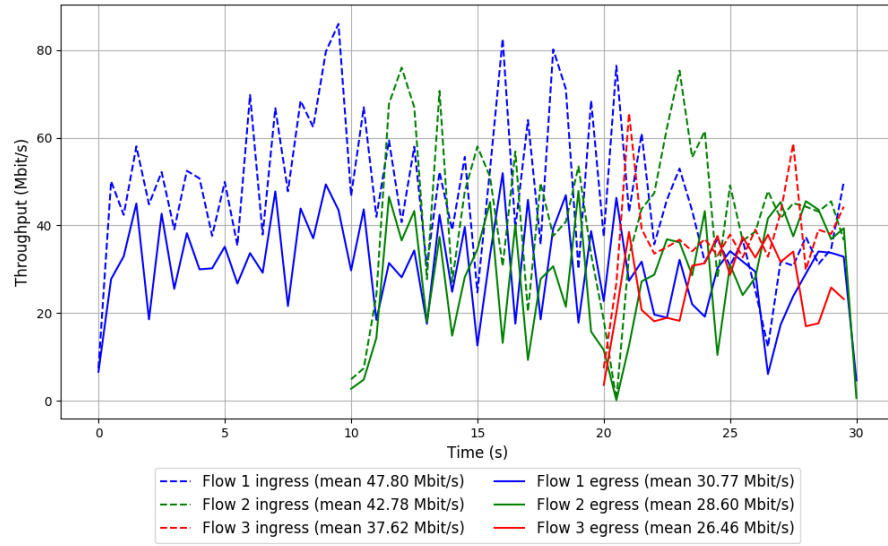


Run 5: Statistics of TCP BBR

Start at: 2017-09-18 22:54:22
End at: 2017-09-18 22:54:52
Local clock offset: -7.143 ms
Remote clock offset: -1.811 ms

Below is generated by plot.py at 2017-09-19 00:26:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 57.701 ms
Loss rate: 33.94%
-- Flow 1:
Average throughput: 30.77 Mbit/s
95th percentile per-packet one-way delay: 57.206 ms
Loss rate: 35.58%
-- Flow 2:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 58.895 ms
Loss rate: 33.09%
-- Flow 3:
Average throughput: 26.46 Mbit/s
95th percentile per-packet one-way delay: 55.617 ms
Loss rate: 29.56%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-18 23:06:55

End at: 2017-09-18 23:07:25

Local clock offset: -7.807 ms

Remote clock offset: -1.81 ms

Below is generated by plot.py at 2017-09-19 00:26:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 57.499 ms

Loss rate: 37.71%

-- Flow 1:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 58.279 ms

Loss rate: 37.13%

-- Flow 2:

Average throughput: 26.43 Mbit/s

95th percentile per-packet one-way delay: 57.332 ms

Loss rate: 38.45%

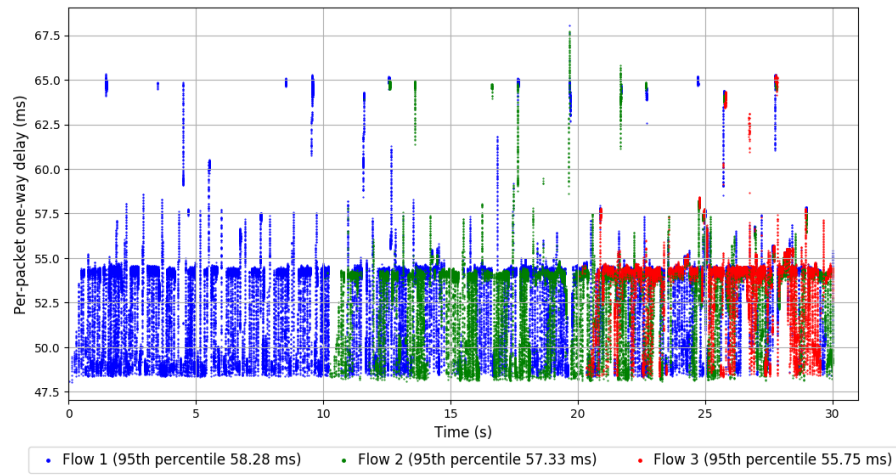
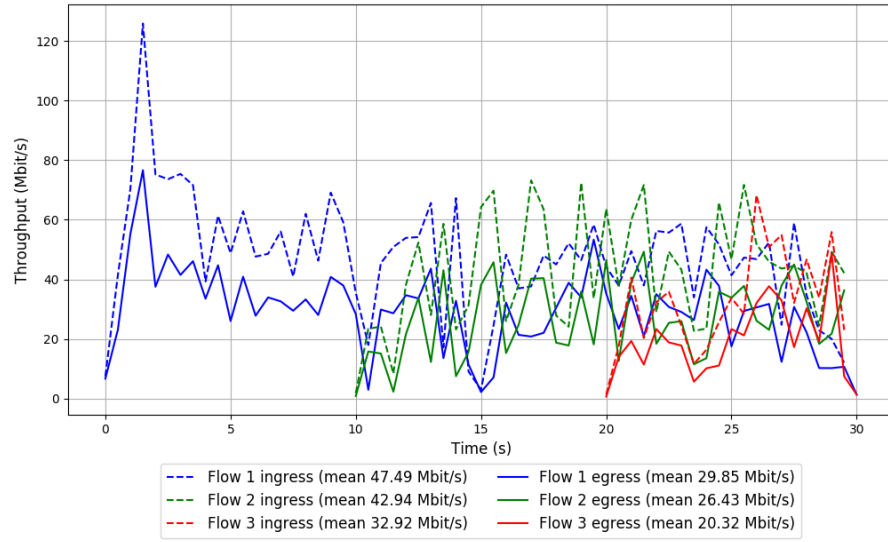
-- Flow 3:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 55.747 ms

Loss rate: 38.28%

Run 6: Report of TCP BBR — Data Link

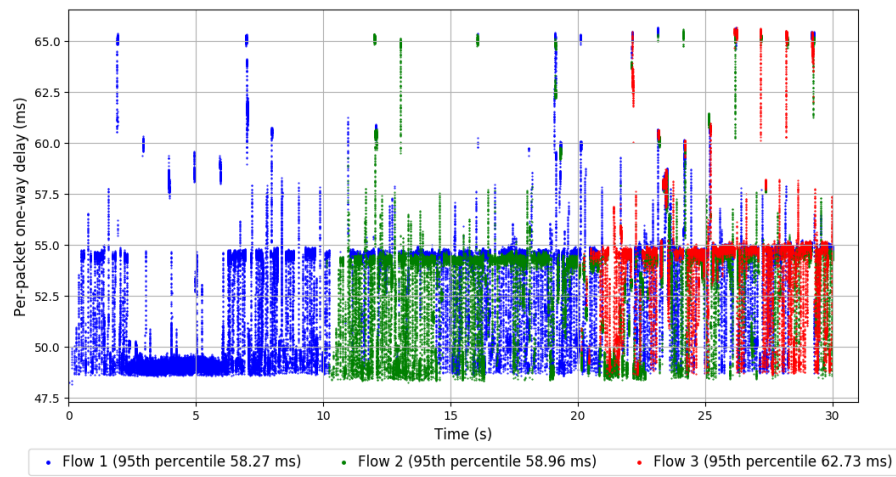
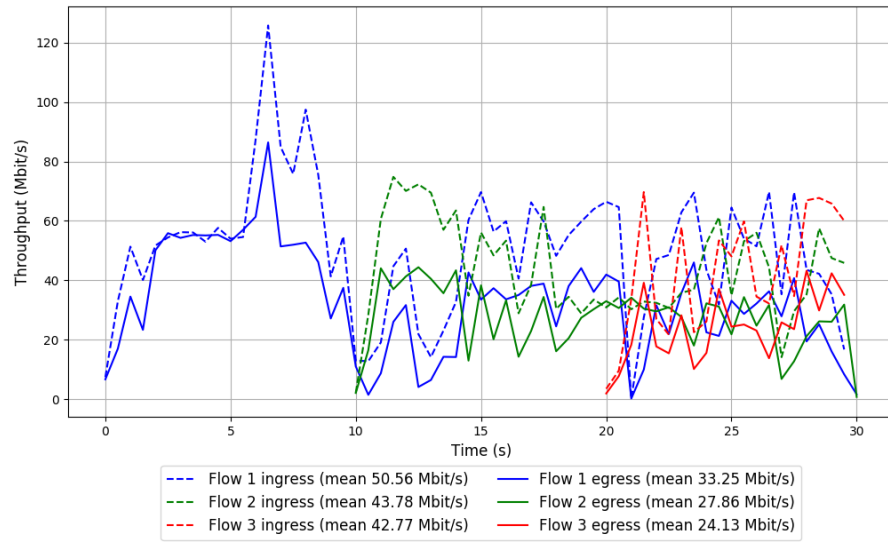


Run 7: Statistics of TCP BBR

Start at: 2017-09-18 23:19:20
End at: 2017-09-18 23:19:50
Local clock offset: -5.871 ms
Remote clock offset: -1.807 ms

Below is generated by plot.py at 2017-09-19 00:26:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.77 Mbit/s
95th percentile per-packet one-way delay: 58.741 ms
Loss rate: 36.30%
-- Flow 1:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 58.266 ms
Loss rate: 34.23%
-- Flow 2:
Average throughput: 27.86 Mbit/s
95th percentile per-packet one-way delay: 58.957 ms
Loss rate: 36.36%
-- Flow 3:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 62.733 ms
Loss rate: 43.58%

Run 7: Report of TCP BBR — Data Link

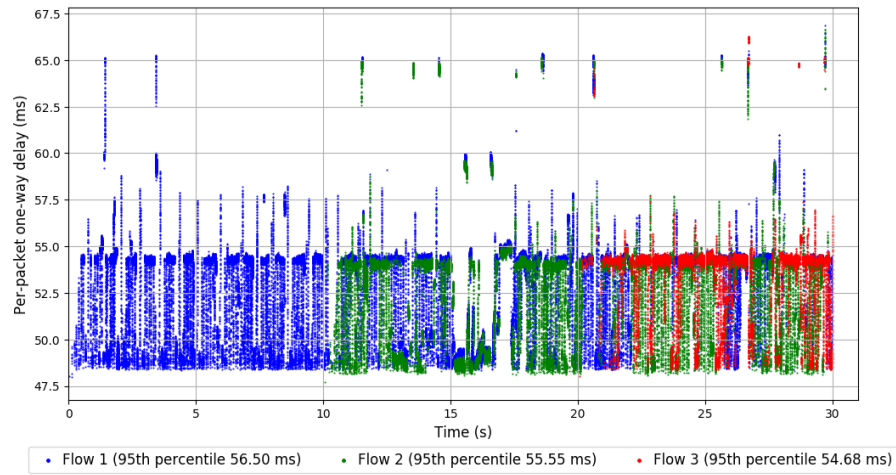
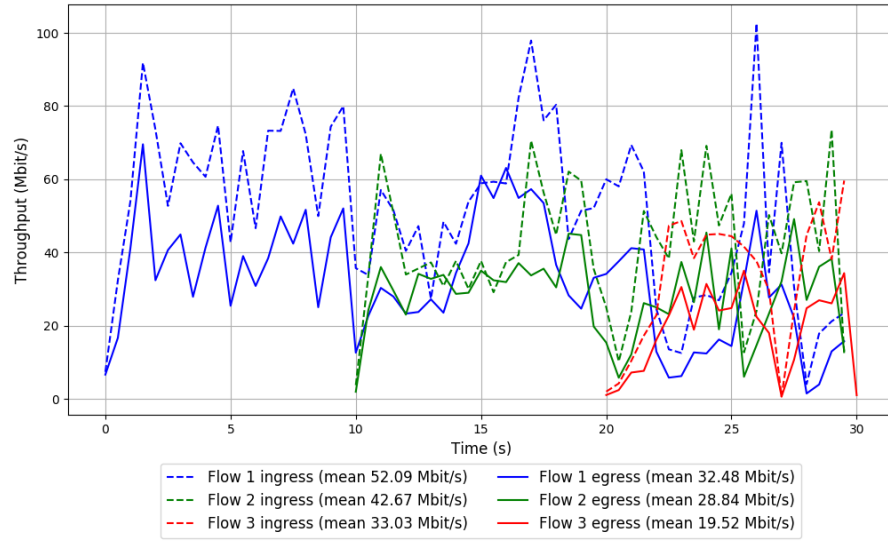


Run 8: Statistics of TCP BBR

Start at: 2017-09-18 23:31:50
End at: 2017-09-18 23:32:20
Local clock offset: -5.414 ms
Remote clock offset: -1.839 ms

Below is generated by plot.py at 2017-09-19 00:26:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 55.729 ms
Loss rate: 36.40%
-- Flow 1:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 56.500 ms
Loss rate: 37.63%
-- Flow 2:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 55.554 ms
Loss rate: 32.39%
-- Flow 3:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 54.678 ms
Loss rate: 40.85%

Run 8: Report of TCP BBR — Data Link

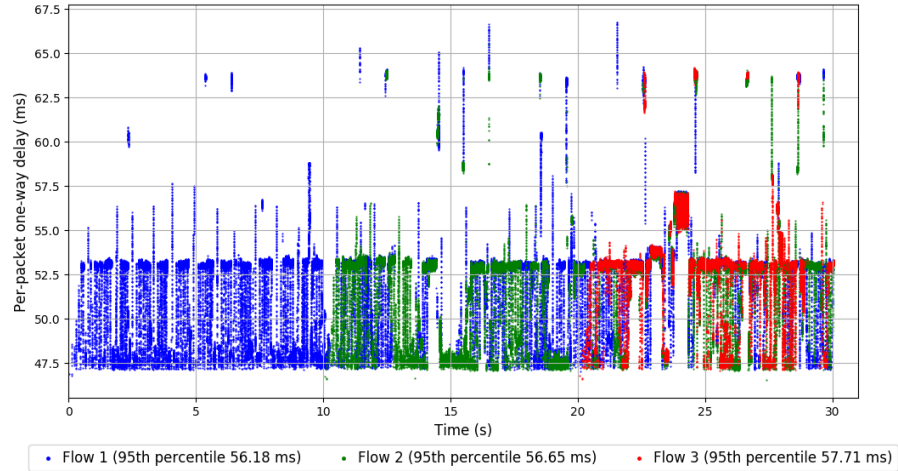
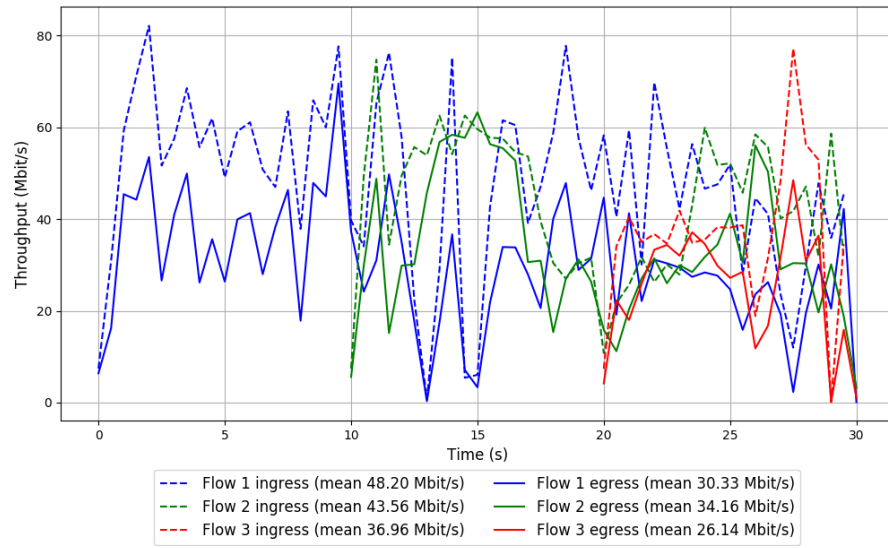


Run 9: Statistics of TCP BBR

Start at: 2017-09-18 23:44:34
End at: 2017-09-18 23:45:04
Local clock offset: -4.664 ms
Remote clock offset: -1.848 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.75 Mbit/s
95th percentile per-packet one-way delay: 56.628 ms
Loss rate: 30.96%
-- Flow 1:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 56.184 ms
Loss rate: 37.05%
-- Flow 2:
Average throughput: 34.16 Mbit/s
95th percentile per-packet one-way delay: 56.647 ms
Loss rate: 21.56%
-- Flow 3:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 57.713 ms
Loss rate: 29.22%

Run 9: Report of TCP BBR — Data Link

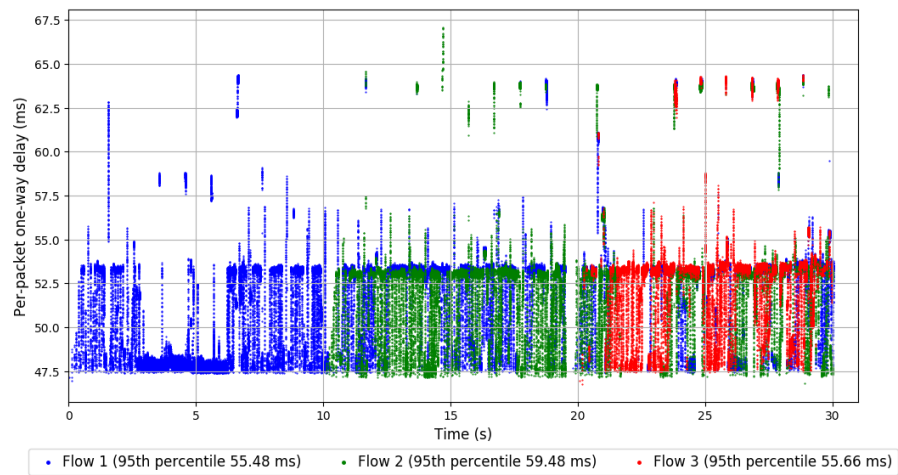
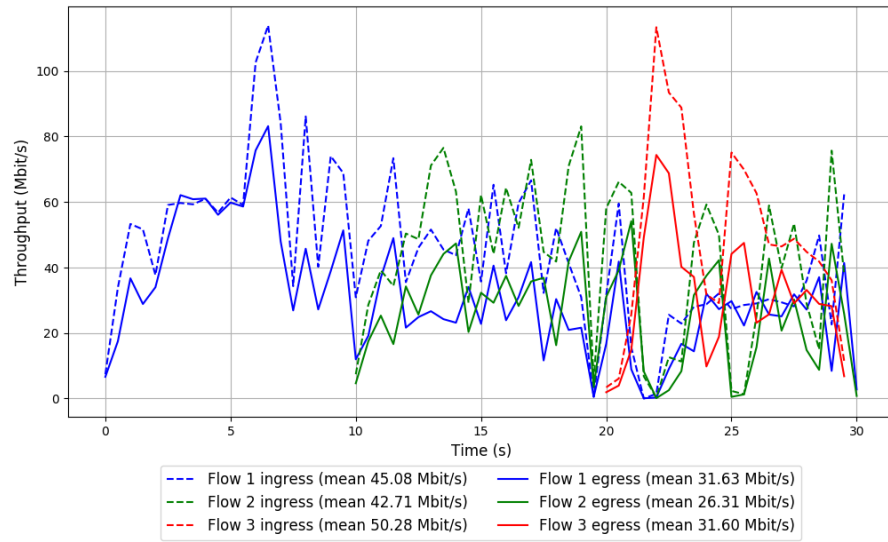


Run 10: Statistics of TCP BBR

Start at: 2017-09-18 23:57:16
End at: 2017-09-18 23:57:46
Local clock offset: -5.176 ms
Remote clock offset: -1.825 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.56 Mbit/s
95th percentile per-packet one-way delay: 56.210 ms
Loss rate: 33.88%
-- Flow 1:
Average throughput: 31.63 Mbit/s
95th percentile per-packet one-way delay: 55.477 ms
Loss rate: 29.83%
-- Flow 2:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 59.485 ms
Loss rate: 38.42%
-- Flow 3:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 55.664 ms
Loss rate: 37.11%

Run 10: Report of TCP BBR — Data Link

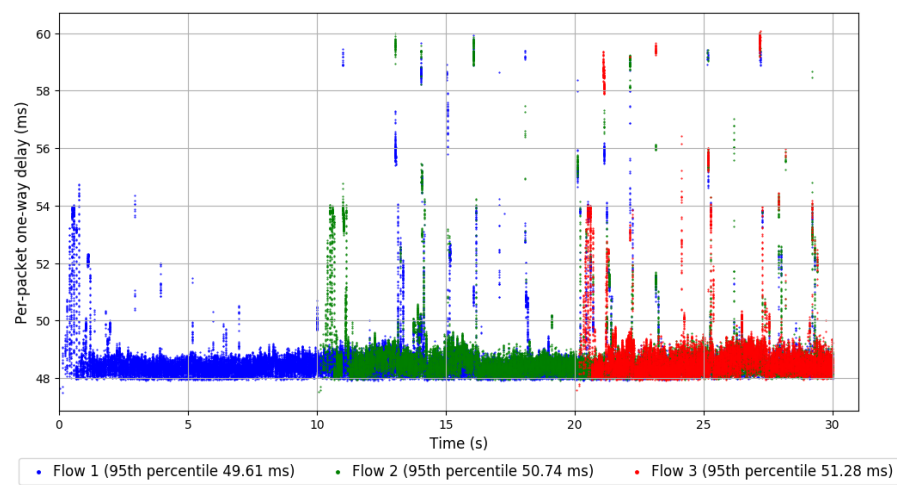
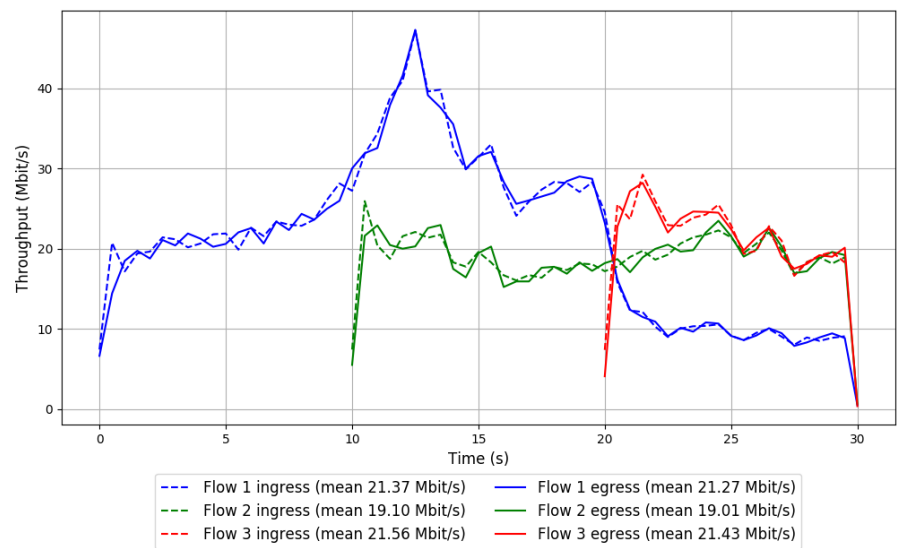


Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 22:03:16
End at: 2017-09-18 22:03:46
Local clock offset: -5.788 ms
Remote clock offset: -1.146 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.04 Mbit/s
95th percentile per-packet one-way delay: 50.051 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 21.27 Mbit/s
95th percentile per-packet one-way delay: 49.612 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 50.739 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 21.43 Mbit/s
95th percentile per-packet one-way delay: 51.280 ms
Loss rate: 0.57%

Run 1: Report of TCP Cubic — Data Link

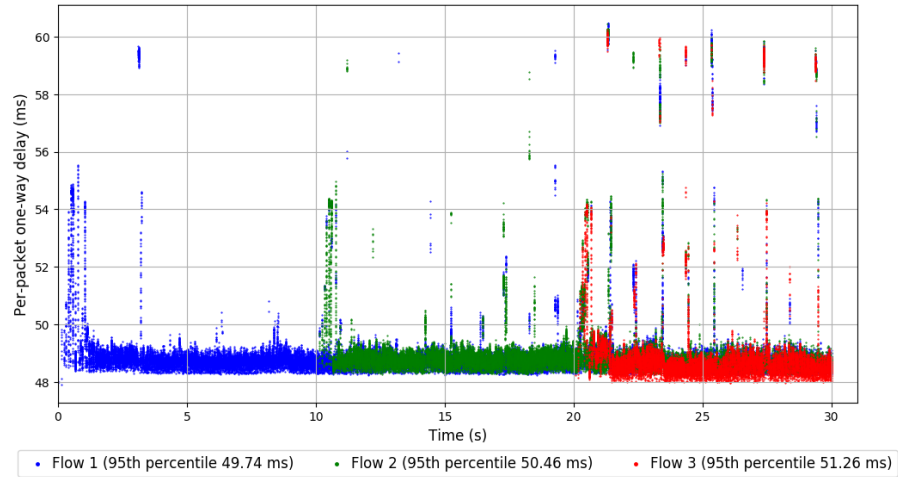
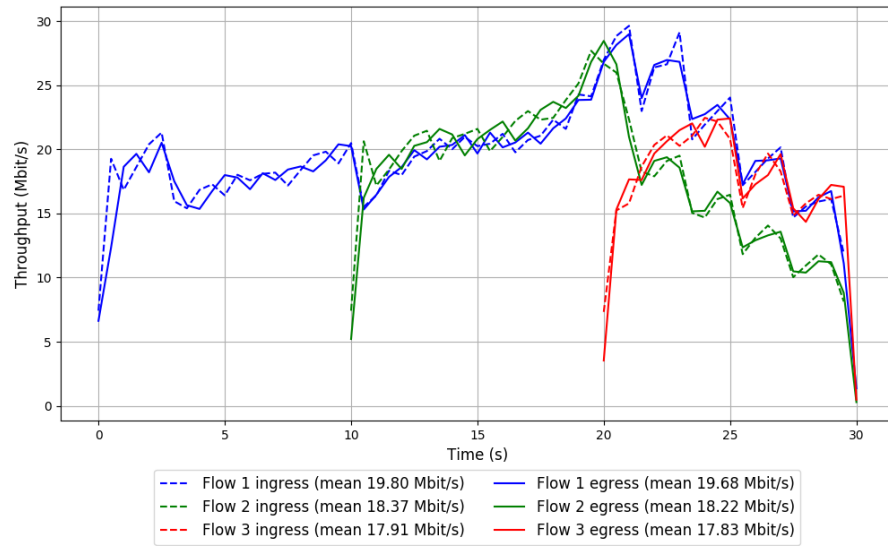


Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 22:15:47
End at: 2017-09-18 22:16:17
Local clock offset: -6.399 ms
Remote clock offset: -1.385 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.72 Mbit/s
95th percentile per-packet one-way delay: 50.136 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 49.744 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 50.464 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 17.83 Mbit/s
95th percentile per-packet one-way delay: 51.259 ms
Loss rate: 0.46%

Run 2: Report of TCP Cubic — Data Link

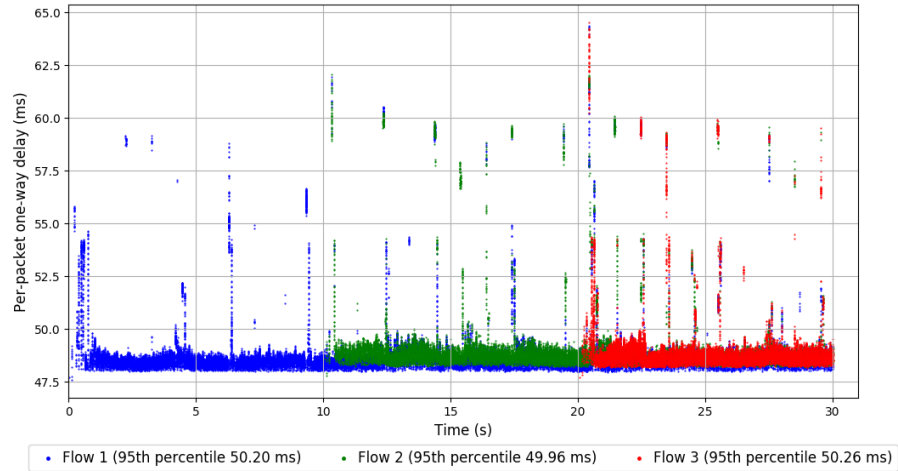
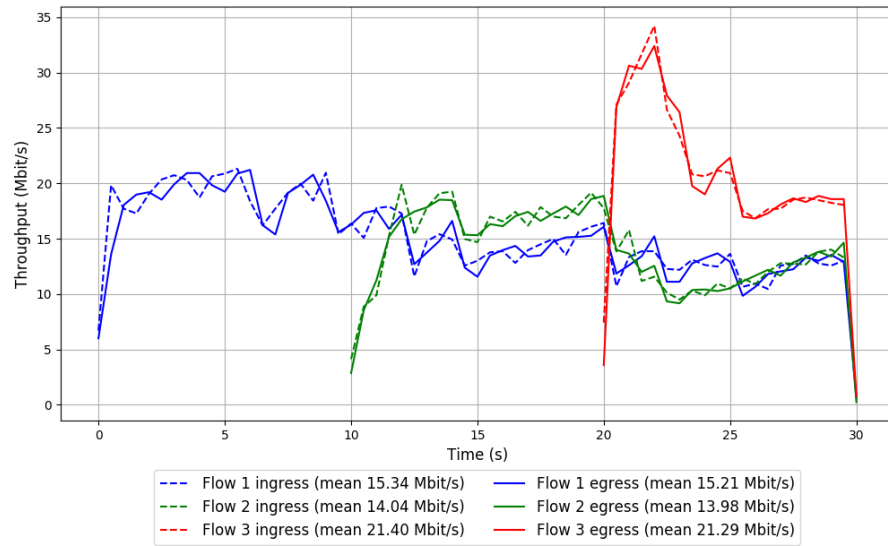


Run 3: Statistics of TCP Cubic

Start at: 2017-09-18 22:28:12
End at: 2017-09-18 22:28:42
Local clock offset: -7.674 ms
Remote clock offset: -1.476 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 50.154 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 50.200 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 49.960 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 21.29 Mbit/s
95th percentile per-packet one-way delay: 50.260 ms
Loss rate: 0.51%

Run 3: Report of TCP Cubic — Data Link

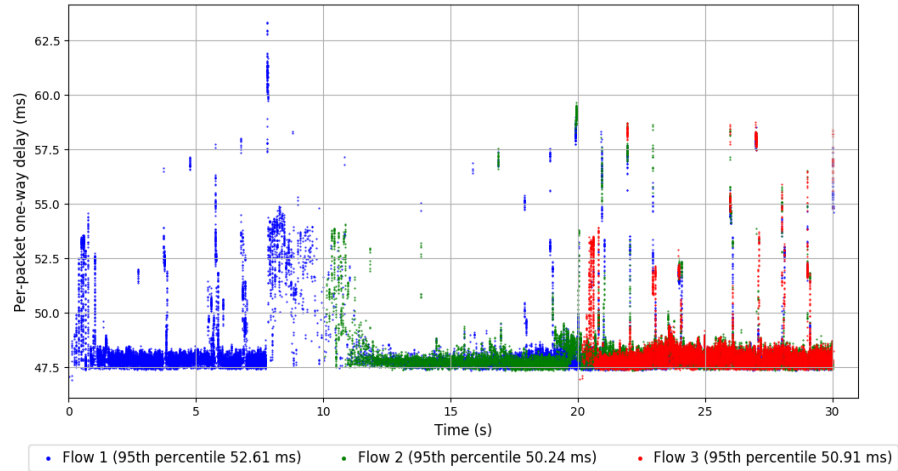
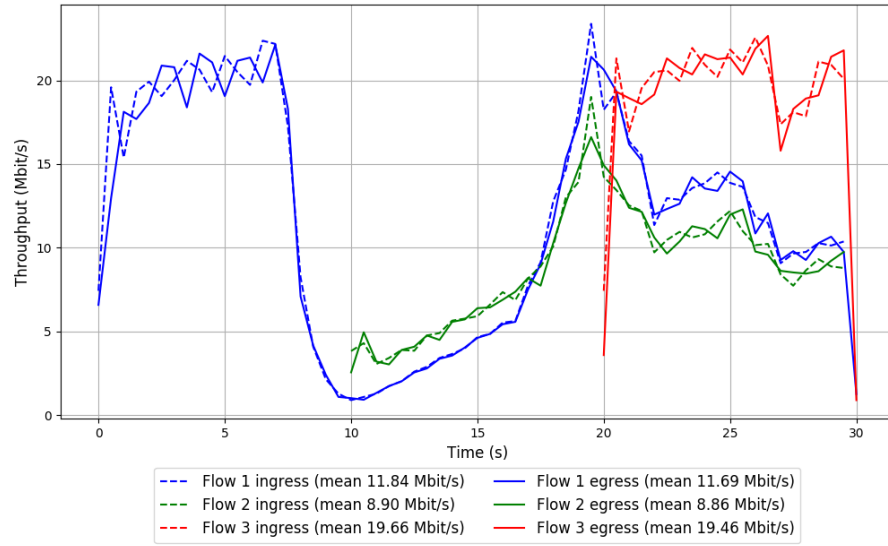


Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 22:40:37
End at: 2017-09-18 22:41:07
Local clock offset: -6.885 ms
Remote clock offset: -1.745 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 51.928 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 52.610 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 50.242 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 19.46 Mbit/s
95th percentile per-packet one-way delay: 50.909 ms
Loss rate: 1.01%

Run 4: Report of TCP Cubic — Data Link

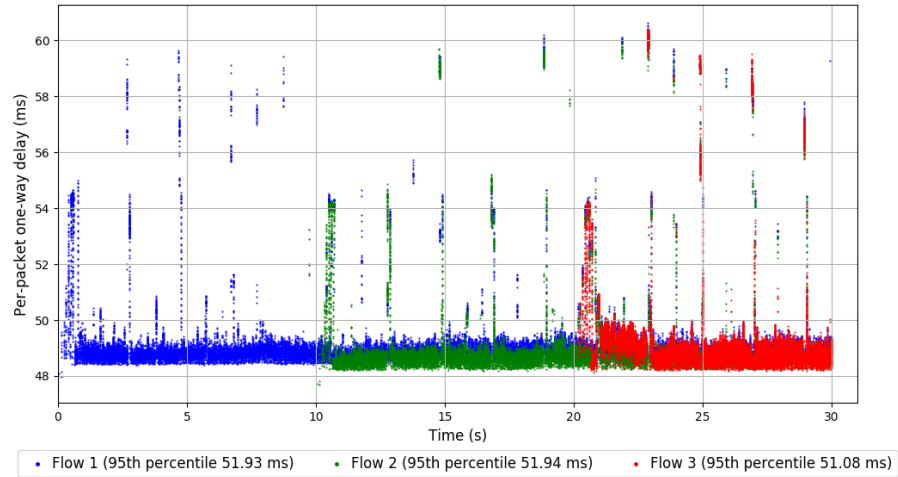
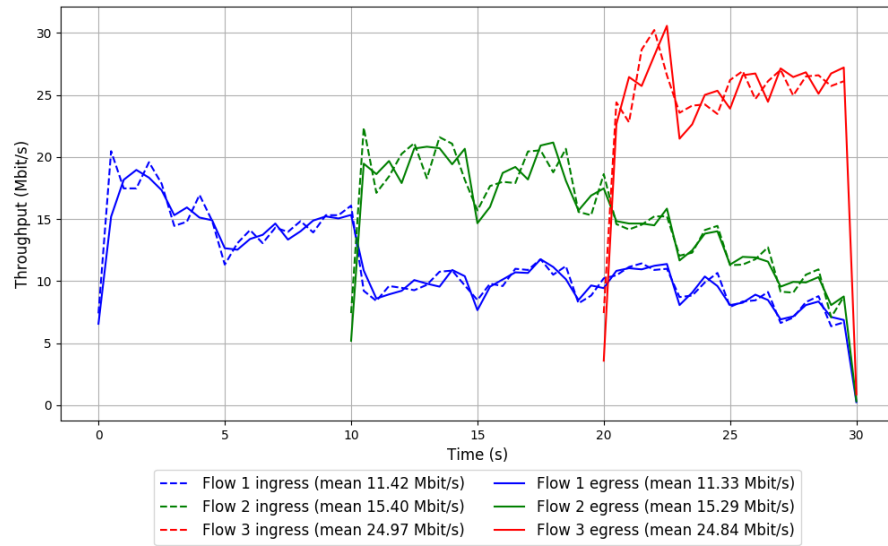


Run 5: Statistics of TCP Cubic

Start at: 2017-09-18 22:53:09
End at: 2017-09-18 22:53:39
Local clock offset: -8.482 ms
Remote clock offset: -1.798 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.75 Mbit/s
95th percentile per-packet one-way delay: 51.690 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 51.927 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 51.942 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 51.078 ms
Loss rate: 0.55%

Run 5: Report of TCP Cubic — Data Link

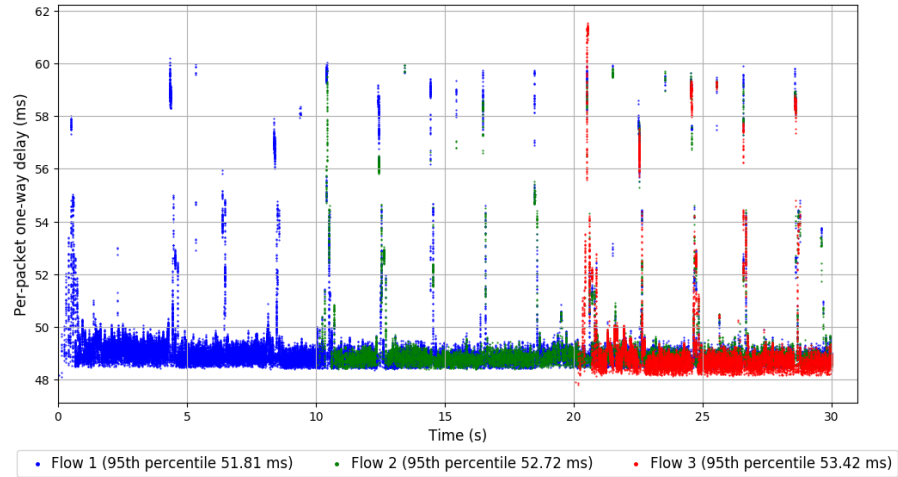
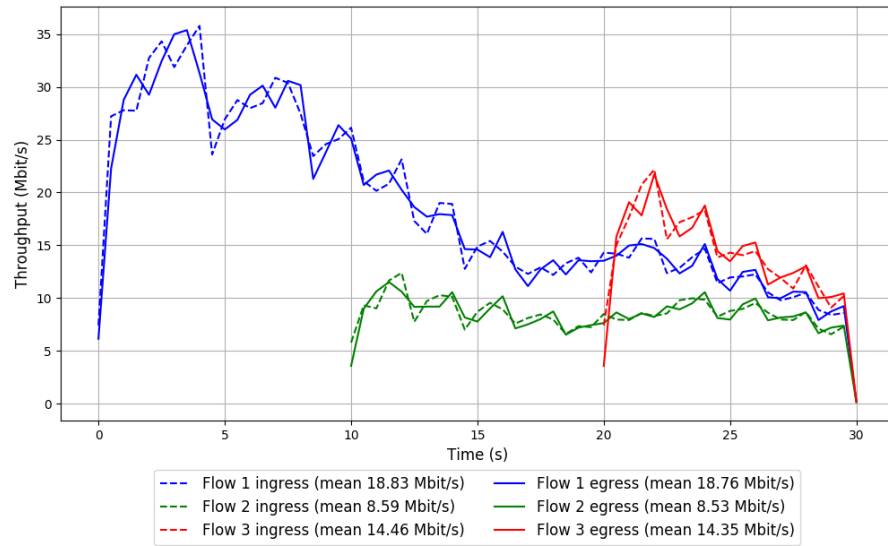


Run 6: Statistics of TCP Cubic

Start at: 2017-09-18 23:05:42
End at: 2017-09-18 23:06:12
Local clock offset: -7.838 ms
Remote clock offset: -1.783 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 52.361 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 18.76 Mbit/s
95th percentile per-packet one-way delay: 51.810 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 52.724 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 53.420 ms
Loss rate: 0.79%

Run 6: Report of TCP Cubic — Data Link

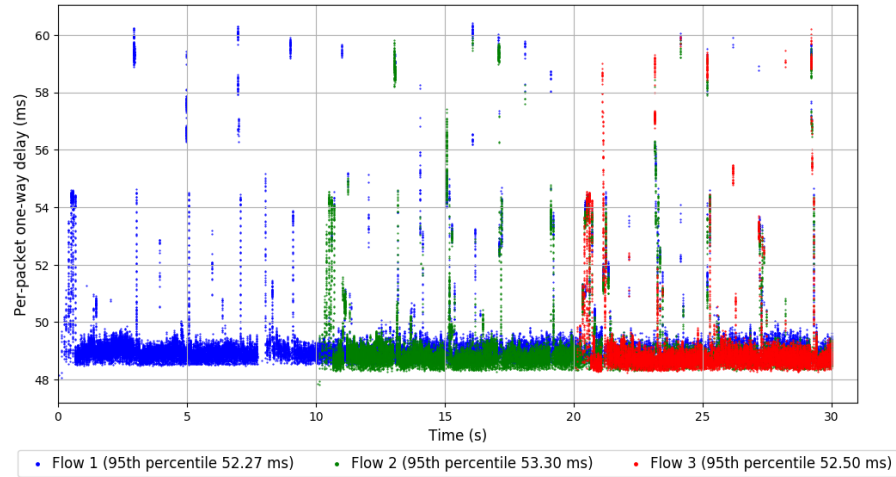
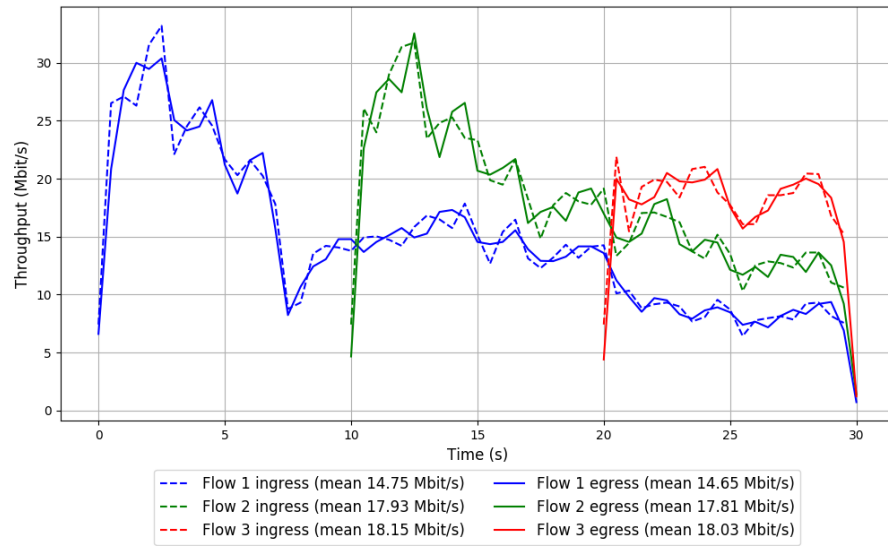


Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 23:18:07
End at: 2017-09-18 23:18:37
Local clock offset: -5.932 ms
Remote clock offset: -1.768 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 52.833 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 52.267 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 53.299 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 18.03 Mbit/s
95th percentile per-packet one-way delay: 52.501 ms
Loss rate: 0.68%

Run 7: Report of TCP Cubic — Data Link

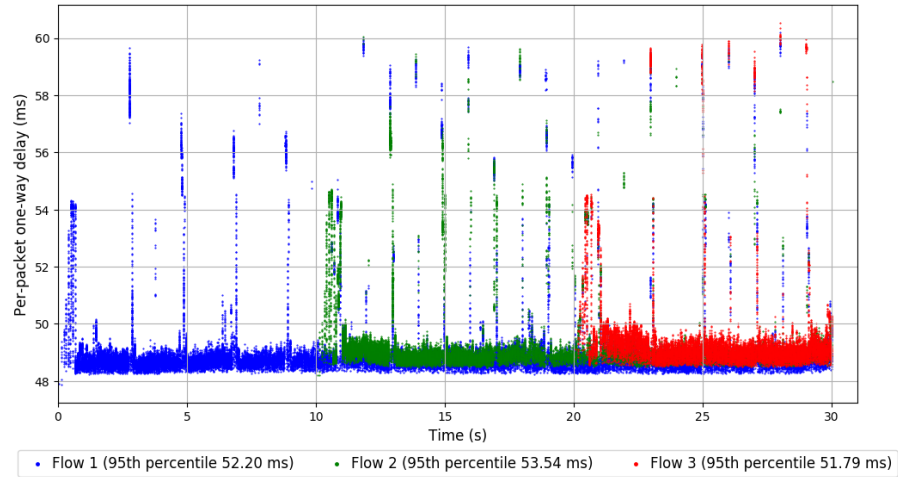
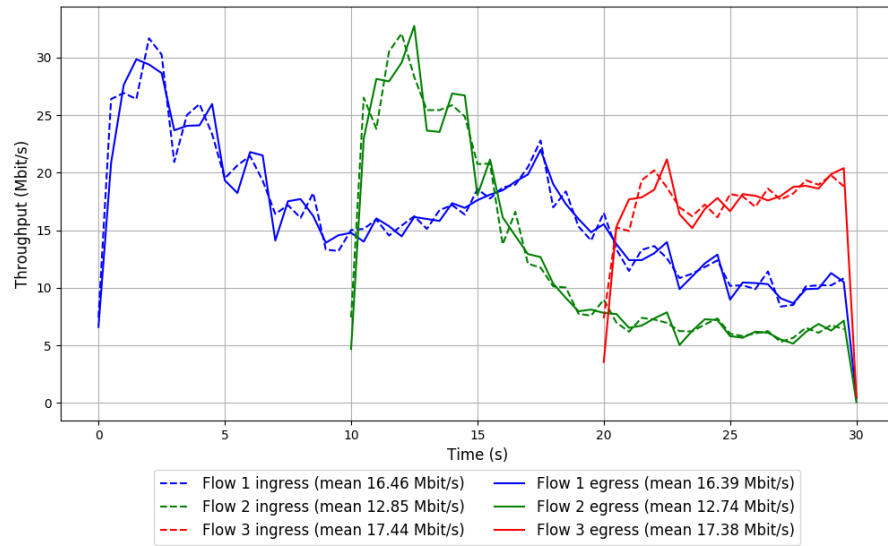


Run 8: Statistics of TCP Cubic

Start at: 2017-09-18 23:30:37
End at: 2017-09-18 23:31:07
Local clock offset: -5.513 ms
Remote clock offset: -1.806 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.63 Mbit/s
95th percentile per-packet one-way delay: 52.635 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 16.39 Mbit/s
95th percentile per-packet one-way delay: 52.198 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 12.74 Mbit/s
95th percentile per-packet one-way delay: 53.541 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 17.38 Mbit/s
95th percentile per-packet one-way delay: 51.792 ms
Loss rate: 0.33%

Run 8: Report of TCP Cubic — Data Link

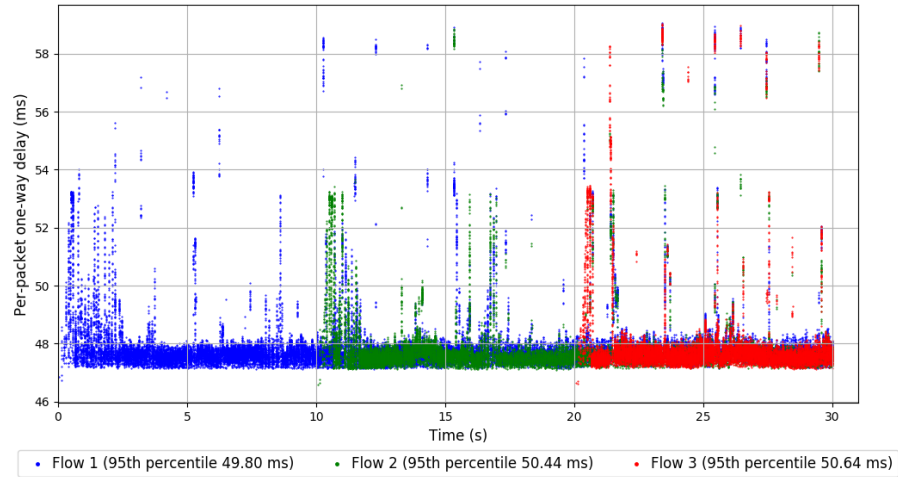
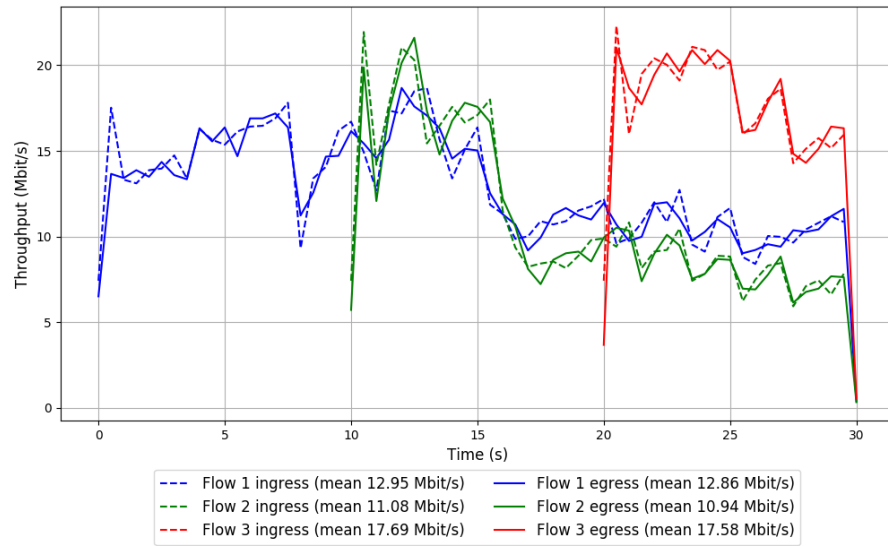


Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 23:43:22
End at: 2017-09-18 23:43:52
Local clock offset: -4.674 ms
Remote clock offset: -1.864 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.98 Mbit/s
95th percentile per-packet one-way delay: 50.125 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 49.801 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 50.442 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 50.640 ms
Loss rate: 0.63%

Run 9: Report of TCP Cubic — Data Link

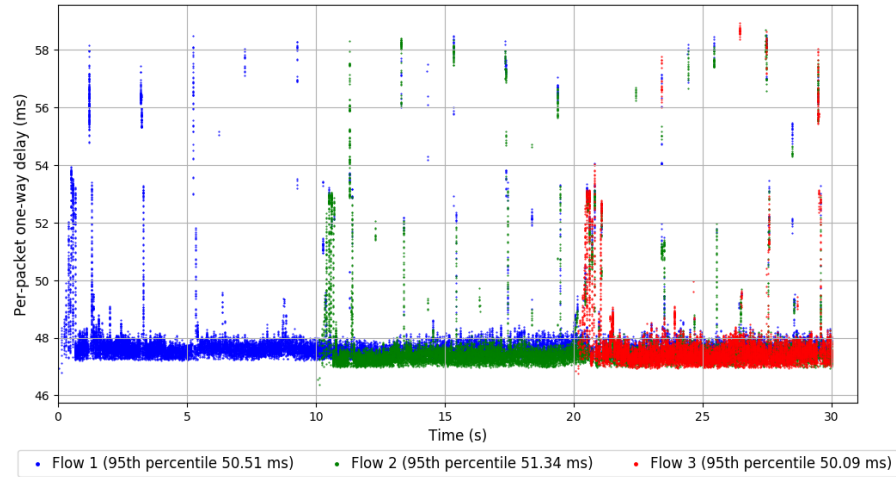
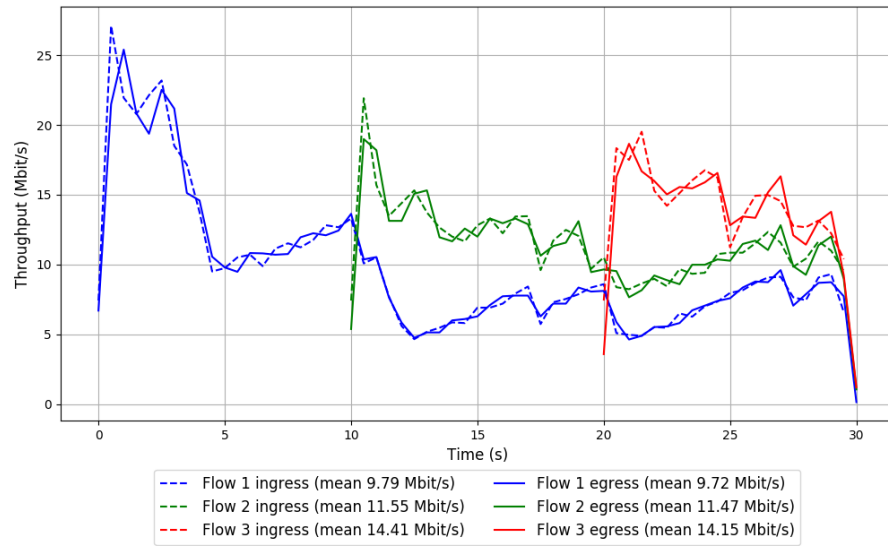


Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 23:56:04
End at: 2017-09-18 23:56:34
Local clock offset: -5.003 ms
Remote clock offset: -1.844 ms

Below is generated by plot.py at 2017-09-19 00:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 50.929 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 9.72 Mbit/s
95th percentile per-packet one-way delay: 50.509 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 51.343 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 14.15 Mbit/s
95th percentile per-packet one-way delay: 50.092 ms
Loss rate: 1.79%

Run 10: Report of TCP Cubic — Data Link

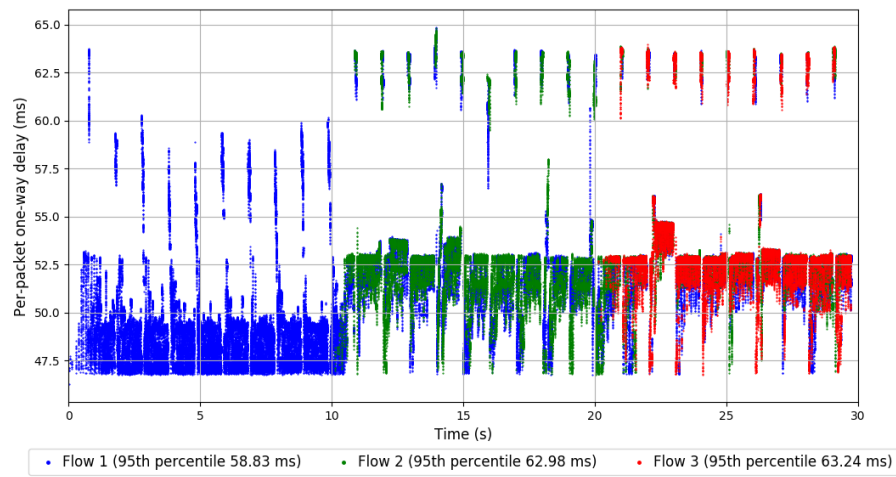
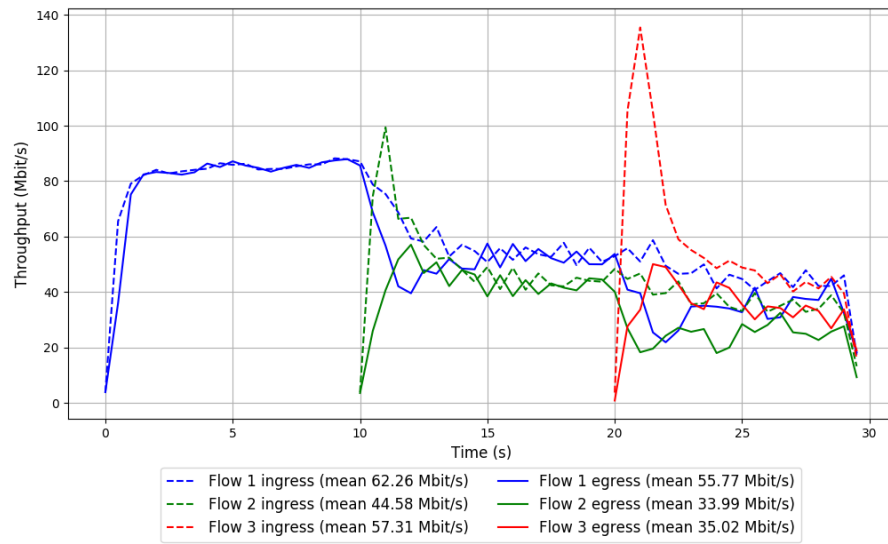


Run 1: Statistics of Indigo

Start at: 2017-09-18 22:06:57
End at: 2017-09-18 22:07:27
Local clock offset: -4.657 ms
Remote clock offset: -1.247 ms

Below is generated by plot.py at 2017-09-19 00:28:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.48 Mbit/s
95th percentile per-packet one-way delay: 62.088 ms
Loss rate: 18.75%
-- Flow 1:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 58.832 ms
Loss rate: 10.41%
-- Flow 2:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 62.978 ms
Loss rate: 23.74%
-- Flow 3:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 63.236 ms
Loss rate: 38.90%

Run 1: Report of Indigo — Data Link

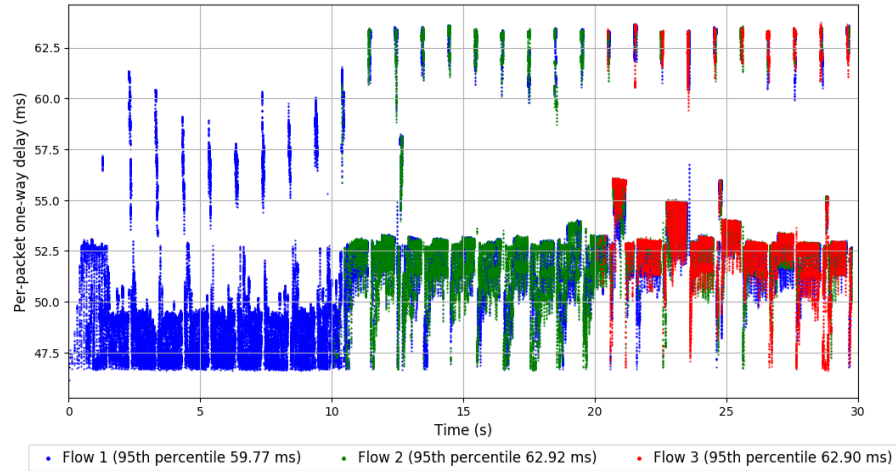
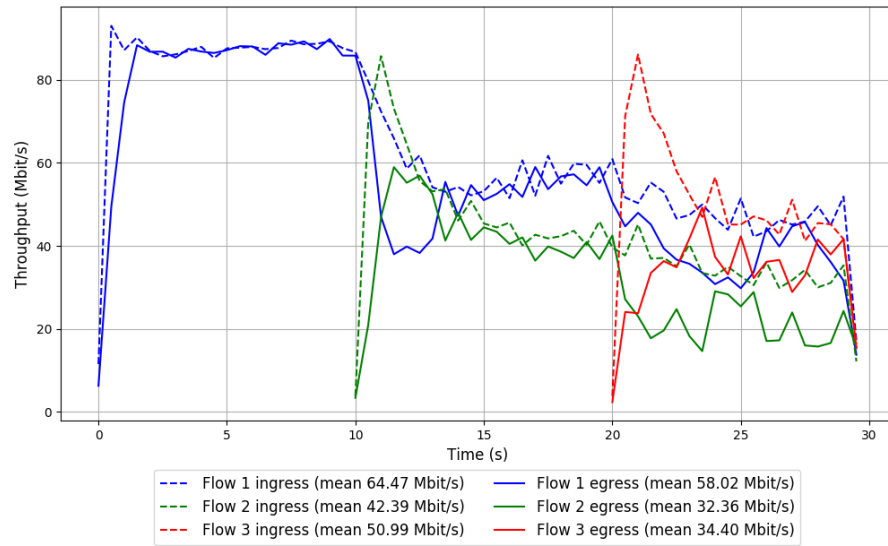


Run 2: Statistics of Indigo

Start at: 2017-09-18 22:19:30
End at: 2017-09-18 22:20:00
Local clock offset: -5.463 ms
Remote clock offset: -1.452 ms

Below is generated by plot.py at 2017-09-19 00:28:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.56 Mbit/s
95th percentile per-packet one-way delay: 61.873 ms
Loss rate: 16.92%
-- Flow 1:
Average throughput: 58.02 Mbit/s
95th percentile per-packet one-way delay: 59.775 ms
Loss rate: 9.99%
-- Flow 2:
Average throughput: 32.36 Mbit/s
95th percentile per-packet one-way delay: 62.919 ms
Loss rate: 23.64%
-- Flow 3:
Average throughput: 34.40 Mbit/s
95th percentile per-packet one-way delay: 62.900 ms
Loss rate: 32.54%

Run 2: Report of Indigo — Data Link

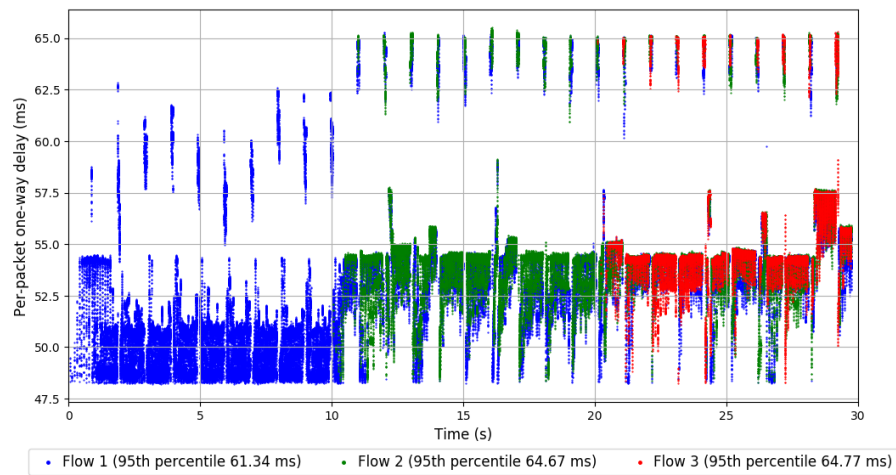
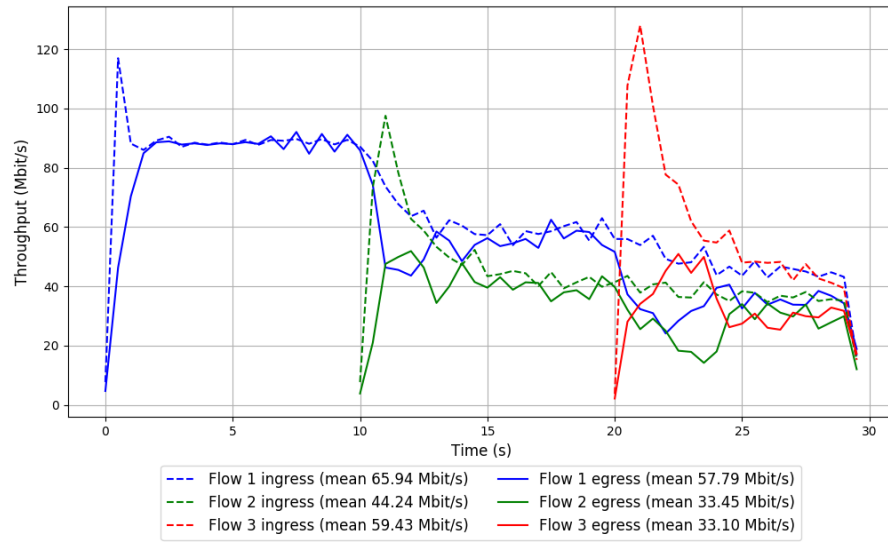


Run 3: Statistics of Indigo

Start at: 2017-09-18 22:31:54
End at: 2017-09-18 22:32:24
Local clock offset: -7.868 ms
Remote clock offset: -1.673 ms

Below is generated by plot.py at 2017-09-19 00:28:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.66 Mbit/s
95th percentile per-packet one-way delay: 63.566 ms
Loss rate: 20.81%
-- Flow 1:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 61.341 ms
Loss rate: 12.34%
-- Flow 2:
Average throughput: 33.45 Mbit/s
95th percentile per-packet one-way delay: 64.669 ms
Loss rate: 24.37%
-- Flow 3:
Average throughput: 33.10 Mbit/s
95th percentile per-packet one-way delay: 64.769 ms
Loss rate: 44.37%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-18 22:44:19

End at: 2017-09-18 22:44:49

Local clock offset: -8.159 ms

Remote clock offset: -1.78 ms

Below is generated by plot.py at 2017-09-19 00:28:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.29 Mbit/s

95th percentile per-packet one-way delay: 63.470 ms

Loss rate: 17.46%

-- Flow 1:

Average throughput: 58.45 Mbit/s

95th percentile per-packet one-way delay: 61.086 ms

Loss rate: 11.36%

-- Flow 2:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 64.251 ms

Loss rate: 24.85%

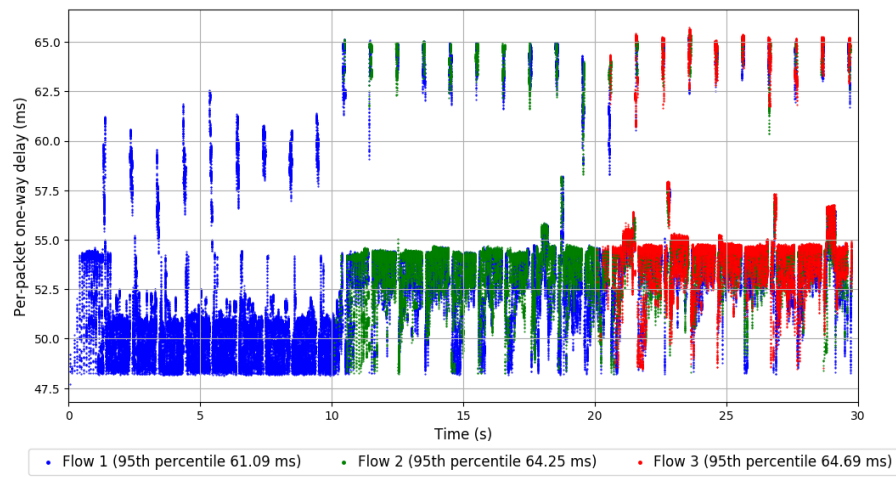
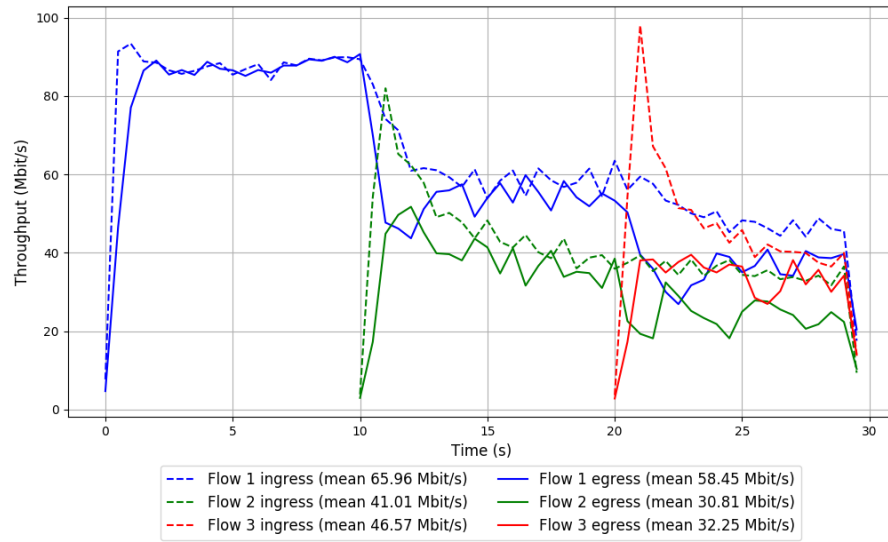
-- Flow 3:

Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 64.695 ms

Loss rate: 30.73%

Run 4: Report of Indigo — Data Link

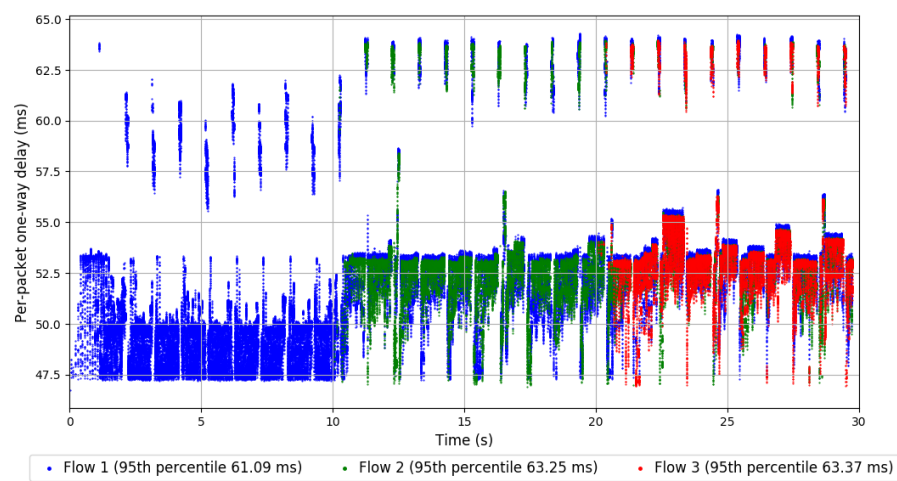
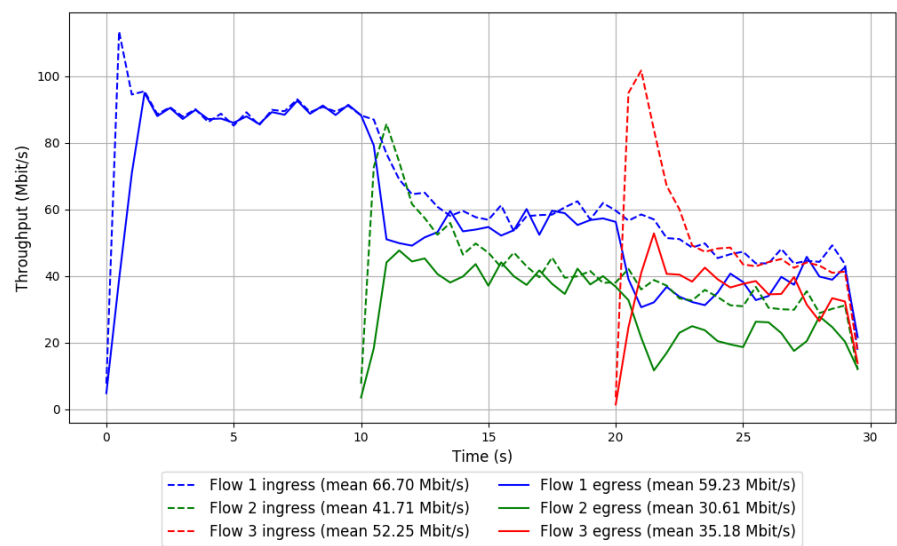


Run 5: Statistics of Indigo

Start at: 2017-09-18 22:56:53
End at: 2017-09-18 22:57:23
Local clock offset: -6.917 ms
Remote clock offset: -1.773 ms

Below is generated by plot.py at 2017-09-19 00:28:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 62.407 ms
Loss rate: 18.29%
-- Flow 1:
Average throughput: 59.23 Mbit/s
95th percentile per-packet one-way delay: 61.091 ms
Loss rate: 11.19%
-- Flow 2:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 63.247 ms
Loss rate: 26.59%
-- Flow 3:
Average throughput: 35.18 Mbit/s
95th percentile per-packet one-way delay: 63.367 ms
Loss rate: 32.69%

Run 5: Report of Indigo — Data Link

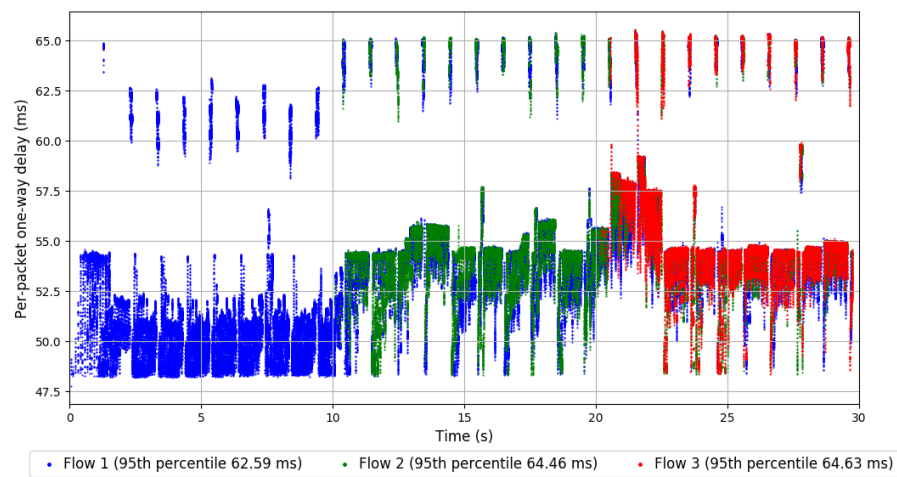
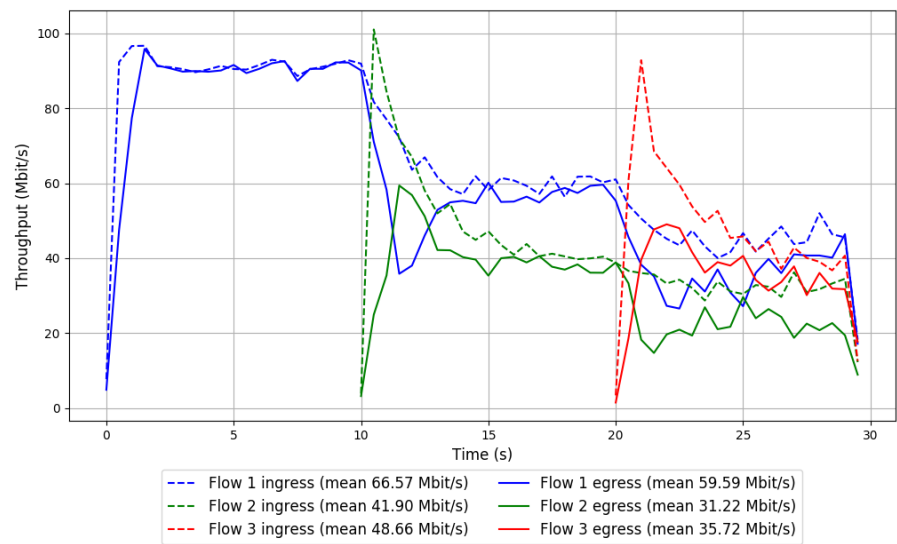


Run 6: Statistics of Indigo

Start at: 2017-09-18 23:09:25
End at: 2017-09-18 23:09:55
Local clock offset: -7.885 ms
Remote clock offset: -1.738 ms

Below is generated by plot.py at 2017-09-19 00:28:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 63.618 ms
Loss rate: 16.56%
-- Flow 1:
Average throughput: 59.59 Mbit/s
95th percentile per-packet one-way delay: 62.585 ms
Loss rate: 10.46%
-- Flow 2:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 64.462 ms
Loss rate: 25.48%
-- Flow 3:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 64.632 ms
Loss rate: 26.60%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-18 23:21:50

End at: 2017-09-18 23:22:20

Local clock offset: -4.234 ms

Remote clock offset: -1.73 ms

Below is generated by plot.py at 2017-09-19 00:28:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 62.648 ms

Loss rate: 17.59%

-- Flow 1:

Average throughput: 58.21 Mbit/s

95th percentile per-packet one-way delay: 61.421 ms

Loss rate: 12.91%

-- Flow 2:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 63.412 ms

Loss rate: 19.51%

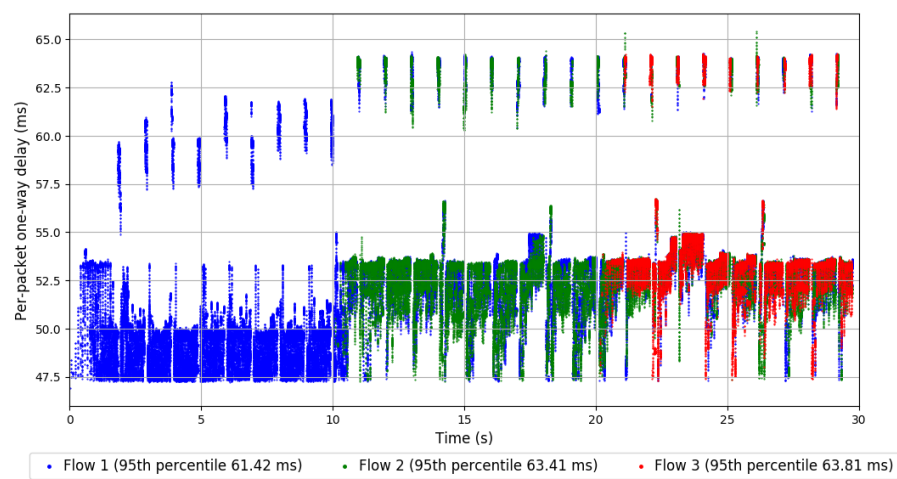
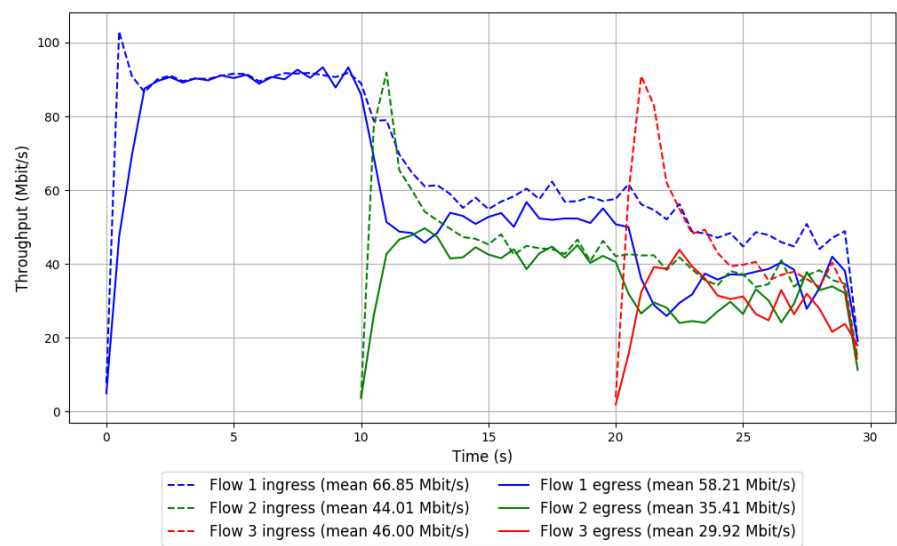
-- Flow 3:

Average throughput: 29.92 Mbit/s

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

Loss rate: 34.92%

Run 7: Report of Indigo — Data Link

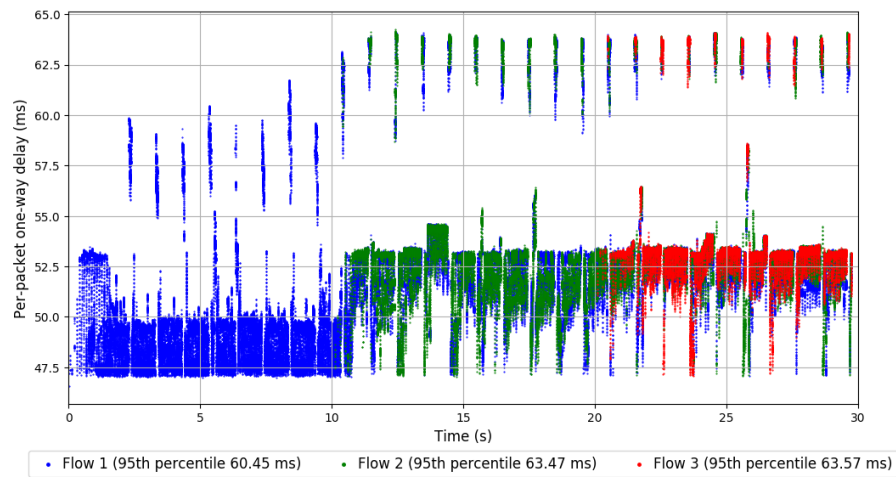
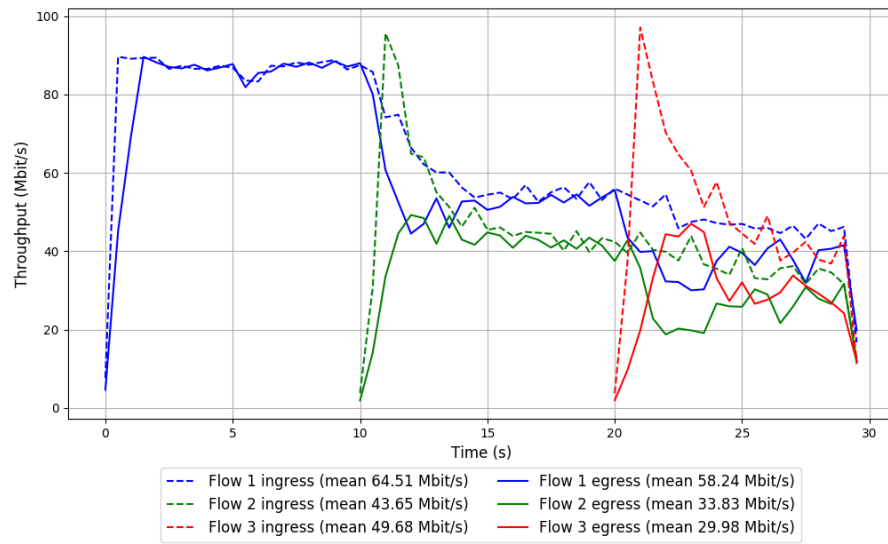


Run 8: Statistics of Indigo

Start at: 2017-09-18 23:34:22
End at: 2017-09-18 23:34:52
Local clock offset: -4.421 ms
Remote clock offset: -1.862 ms

Below is generated by plot.py at 2017-09-19 00:28:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.25 Mbit/s
95th percentile per-packet one-way delay: 62.434 ms
Loss rate: 17.48%
-- Flow 1:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 60.454 ms
Loss rate: 9.71%
-- Flow 2:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 63.474 ms
Loss rate: 22.46%
-- Flow 3:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 63.571 ms
Loss rate: 39.65%

Run 8: Report of Indigo — Data Link

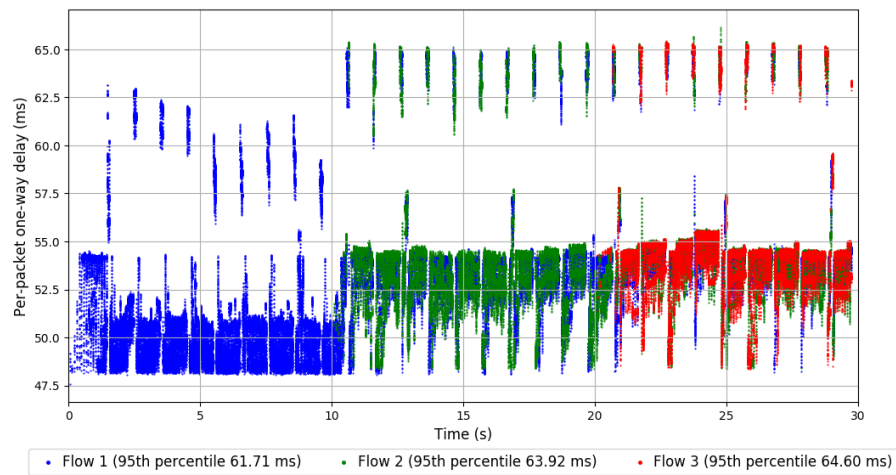
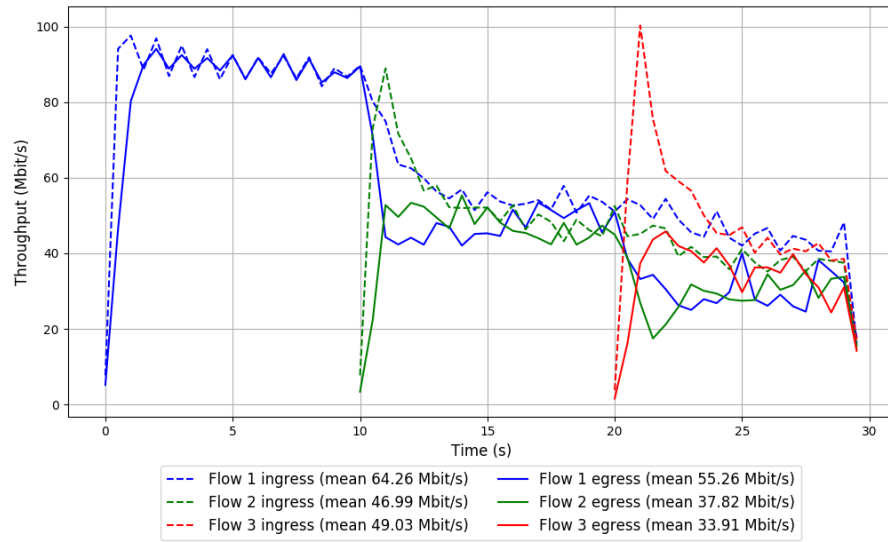


Run 9: Statistics of Indigo

Start at: 2017-09-18 23:47:06
End at: 2017-09-18 23:47:36
Local clock offset: -5.803 ms
Remote clock offset: -1.869 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 63.382 ms
Loss rate: 17.92%
-- Flow 1:
Average throughput: 55.26 Mbit/s
95th percentile per-packet one-way delay: 61.707 ms
Loss rate: 13.98%
-- Flow 2:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 63.920 ms
Loss rate: 19.50%
-- Flow 3:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 64.604 ms
Loss rate: 30.74%

Run 9: Report of Indigo — Data Link

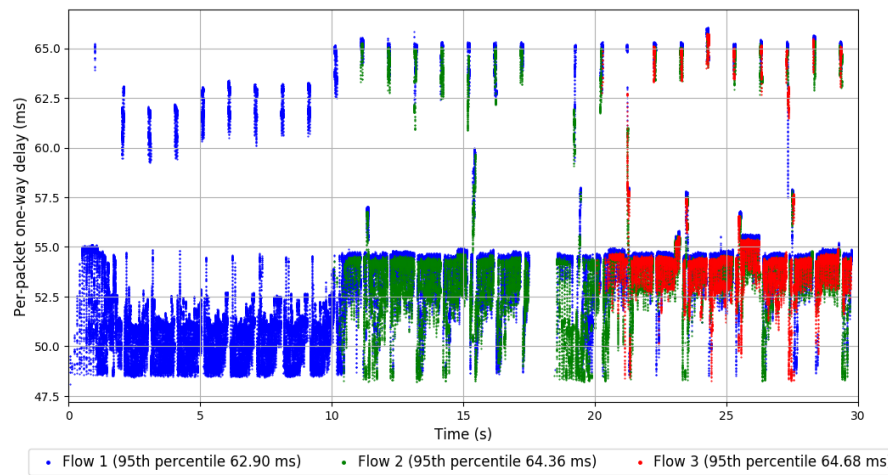
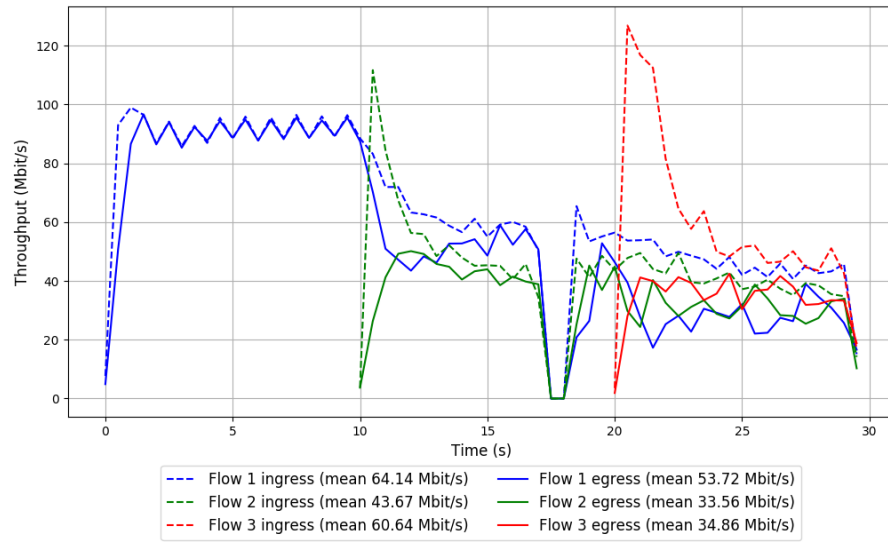


Run 10: Statistics of Indigo

Start at: 2017-09-18 23:59:47
End at: 2017-09-19 00:00:17
Local clock offset: -5.981 ms
Remote clock offset: -1.849 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.21 Mbit/s
95th percentile per-packet one-way delay: 63.648 ms
Loss rate: 22.59%
-- Flow 1:
Average throughput: 53.72 Mbit/s
95th percentile per-packet one-way delay: 62.895 ms
Loss rate: 16.22%
-- Flow 2:
Average throughput: 33.56 Mbit/s
95th percentile per-packet one-way delay: 64.355 ms
Loss rate: 23.15%
-- Flow 3:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 64.682 ms
Loss rate: 42.50%

Run 10: Report of Indigo — Data Link

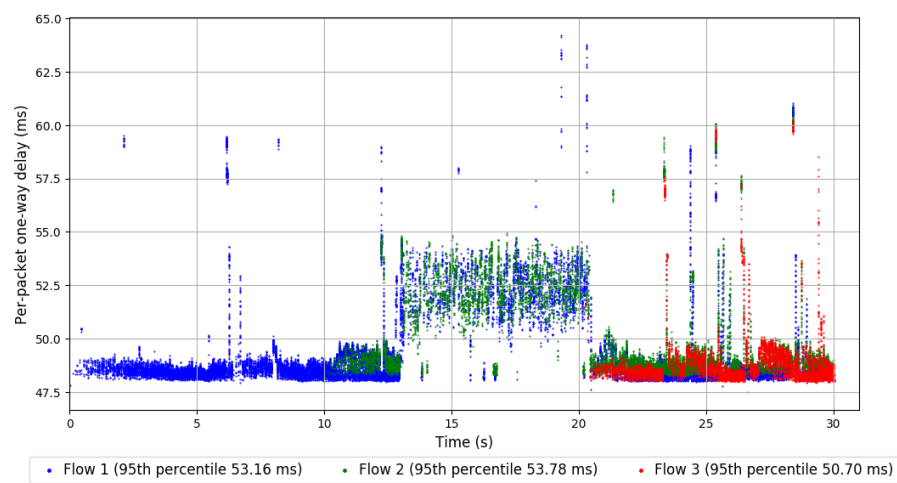
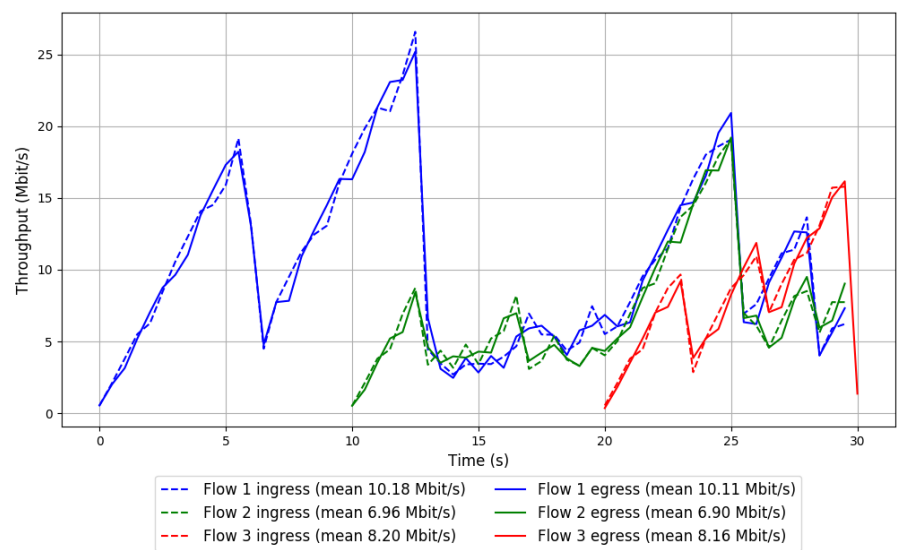


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-18 22:10:45
End at: 2017-09-18 22:11:15
Local clock offset: -6.063 ms
Remote clock offset: -1.314 ms

# Below is generated by plot.py at 2017-09-19 00:29:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.39 Mbit/s
95th percentile per-packet one-way delay: 53.347 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 53.155 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 53.779 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 50.701 ms
Loss rate: 0.55%
```

Run 1: Report of LEDBAT — Data Link

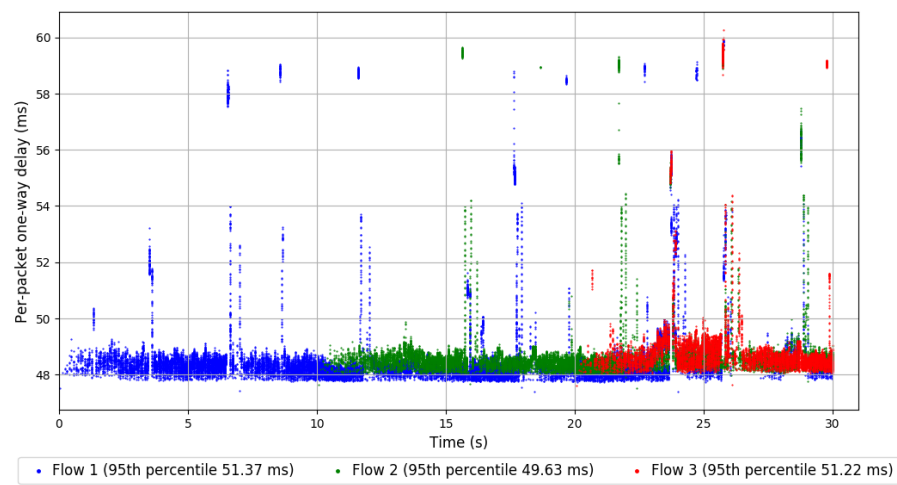
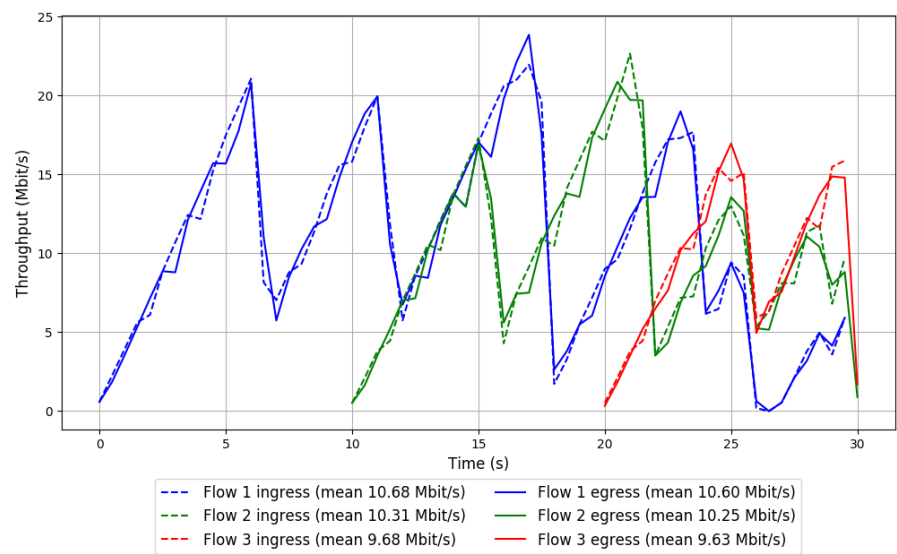


Run 2: Statistics of LEDBAT

Start at: 2017-09-18 22:23:18
End at: 2017-09-18 22:23:48
Local clock offset: -6.988 ms
Remote clock offset: -1.436 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 51.366 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 49.631 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 0.52%

Run 2: Report of LEDBAT — Data Link

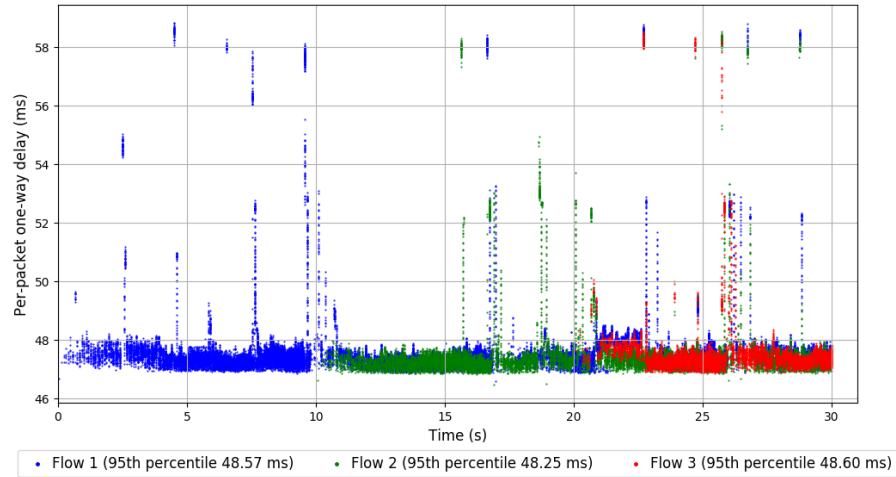
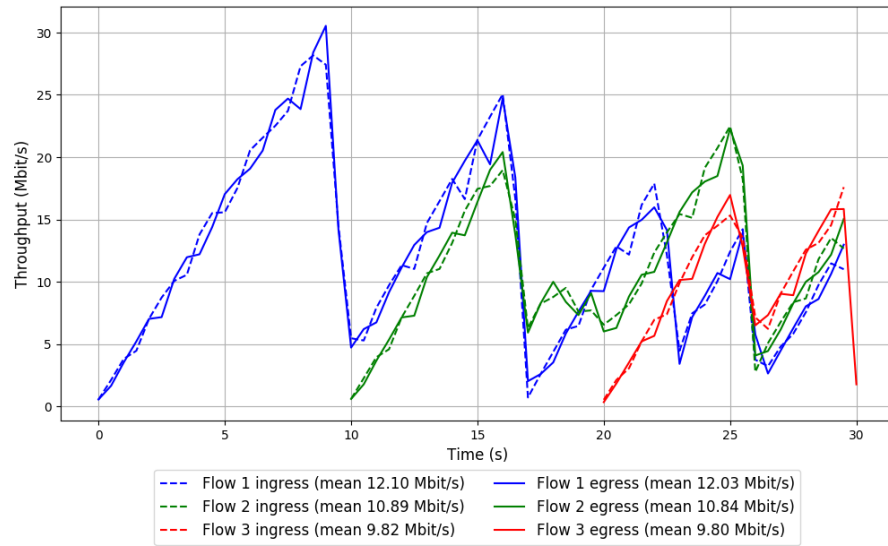


Run 3: Statistics of LEDBAT

Start at: 2017-09-18 22:35:41
End at: 2017-09-18 22:36:11
Local clock offset: -6.546 ms
Remote clock offset: -1.708 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.48 Mbit/s
95th percentile per-packet one-way delay: 48.492 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 48.566 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 48.246 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 48.596 ms
Loss rate: 0.17%

Run 3: Report of LEDBAT — Data Link

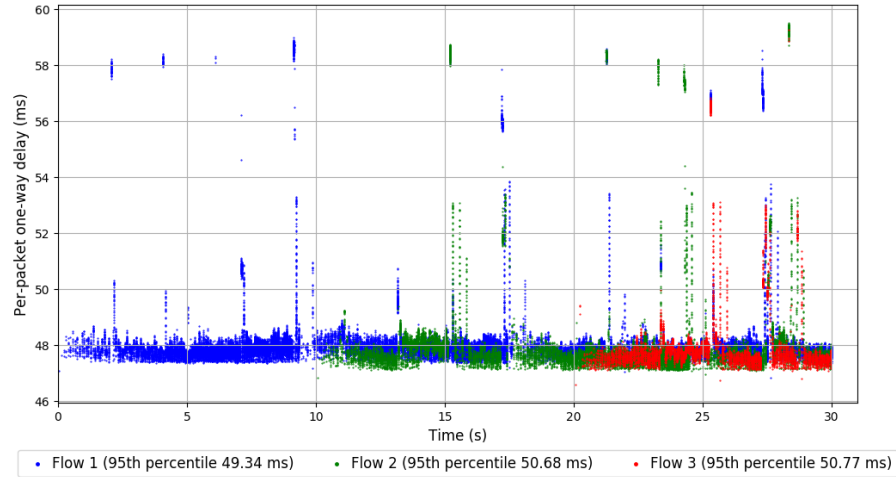
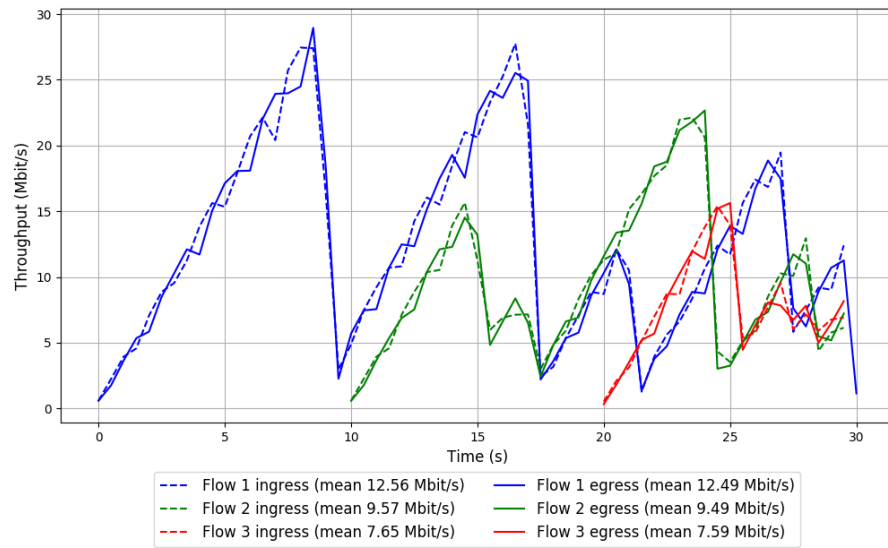


Run 4: Statistics of LEDBAT

Start at: 2017-09-18 22:48:06
End at: 2017-09-18 22:48:36
Local clock offset: -7.32 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 49.978 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 49.338 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 50.677 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.79%

Run 4: Report of LEDBAT — Data Link

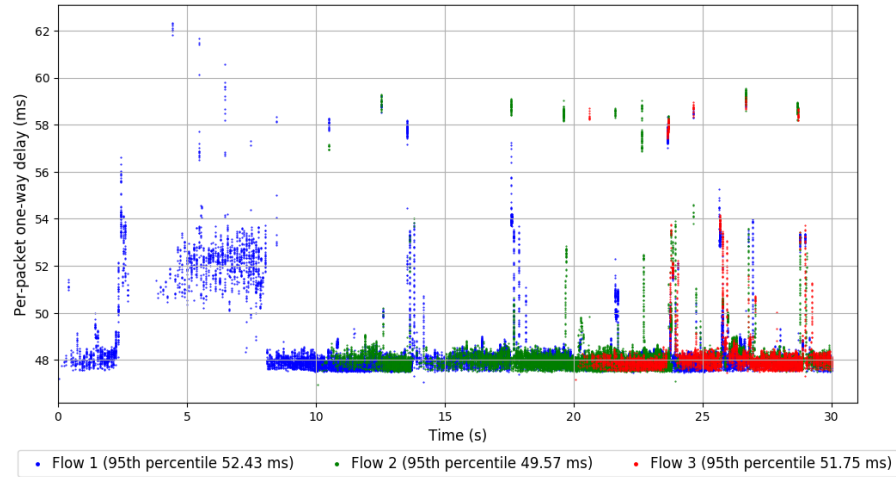
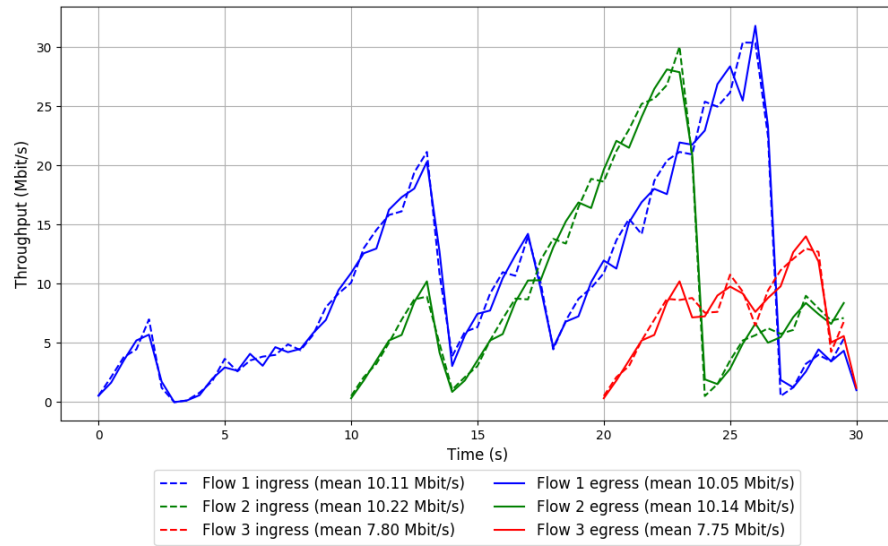


Run 5: Statistics of LEDBAT

Start at: 2017-09-18 23:00:40
End at: 2017-09-18 23:01:10
Local clock offset: -6.982 ms
Remote clock offset: -1.721 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.36 Mbit/s
95th percentile per-packet one-way delay: 51.854 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 52.428 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 10.14 Mbit/s
95th percentile per-packet one-way delay: 49.567 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 51.746 ms
Loss rate: 0.65%

Run 5: Report of LEDBAT — Data Link

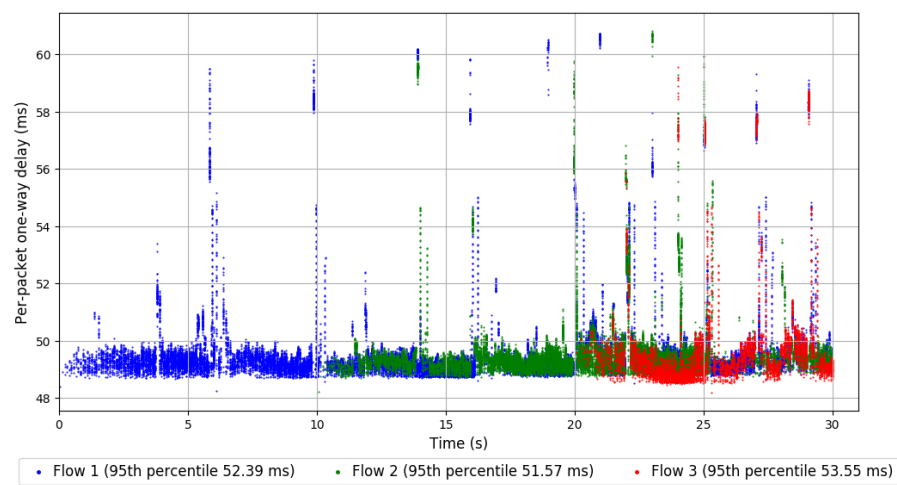
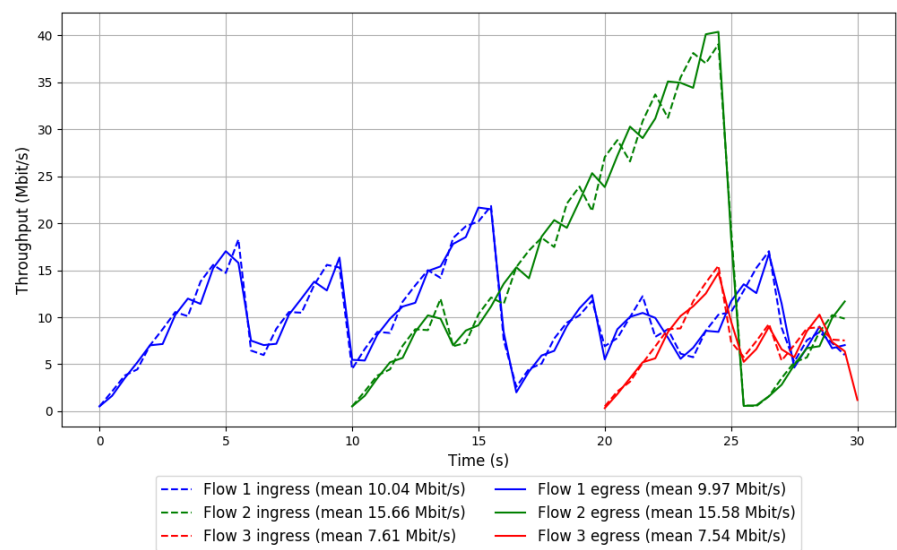


Run 6: Statistics of LEDBAT

Start at: 2017-09-18 23:13:12
End at: 2017-09-18 23:13:42
Local clock offset: -6.792 ms
Remote clock offset: -1.769 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.81 Mbit/s
95th percentile per-packet one-way delay: 52.180 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 52.387 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 15.58 Mbit/s
95th percentile per-packet one-way delay: 51.572 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 53.551 ms
Loss rate: 0.98%

Run 6: Report of LEDBAT — Data Link

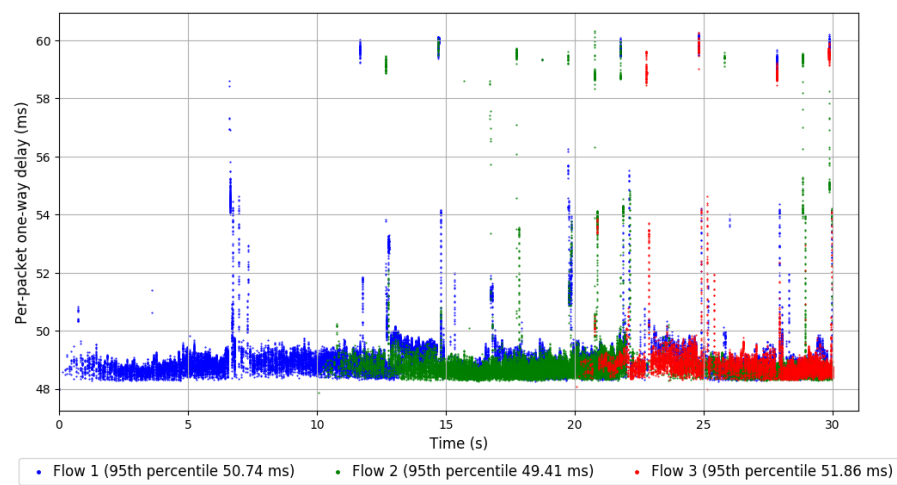
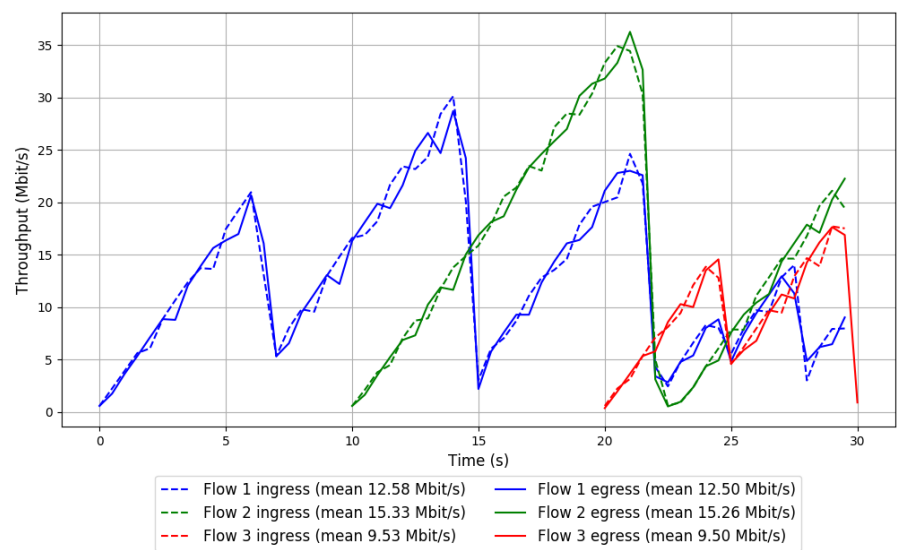


Run 7: Statistics of LEDBAT

Start at: 2017-09-18 23:25:37
End at: 2017-09-18 23:26:07
Local clock offset: -5.537 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.78 Mbit/s
95th percentile per-packet one-way delay: 50.123 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 50.743 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 15.26 Mbit/s
95th percentile per-packet one-way delay: 49.413 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 51.859 ms
Loss rate: 0.36%

Run 7: Report of LEDBAT — Data Link

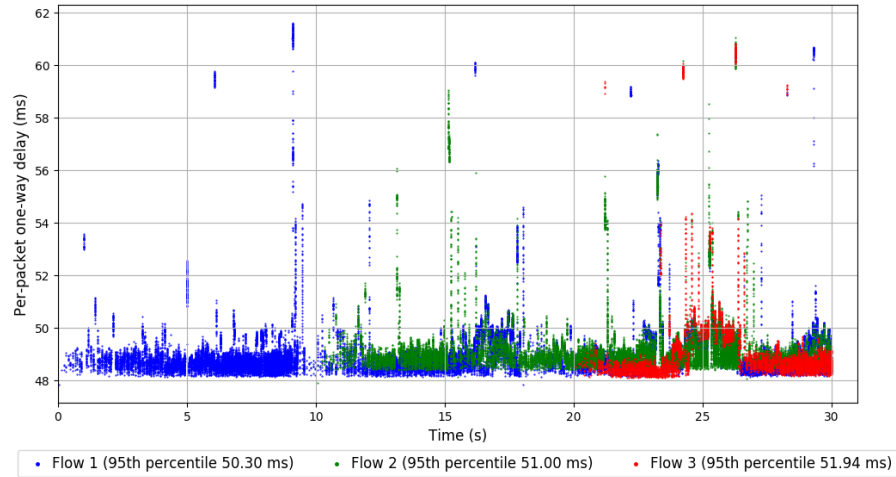
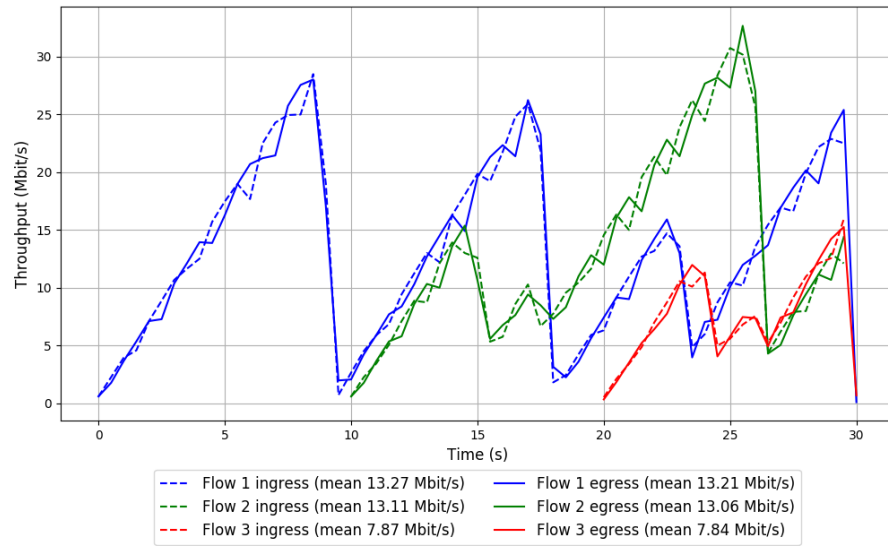


Run 8: Statistics of LEDBAT

Start at: 2017-09-18 23:38:18
End at: 2017-09-18 23:38:48
Local clock offset: -5.562 ms
Remote clock offset: -1.836 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 50.595 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 13.21 Mbit/s
95th percentile per-packet one-way delay: 50.295 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 50.999 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 51.941 ms
Loss rate: 0.30%

Run 8: Report of LEDBAT — Data Link

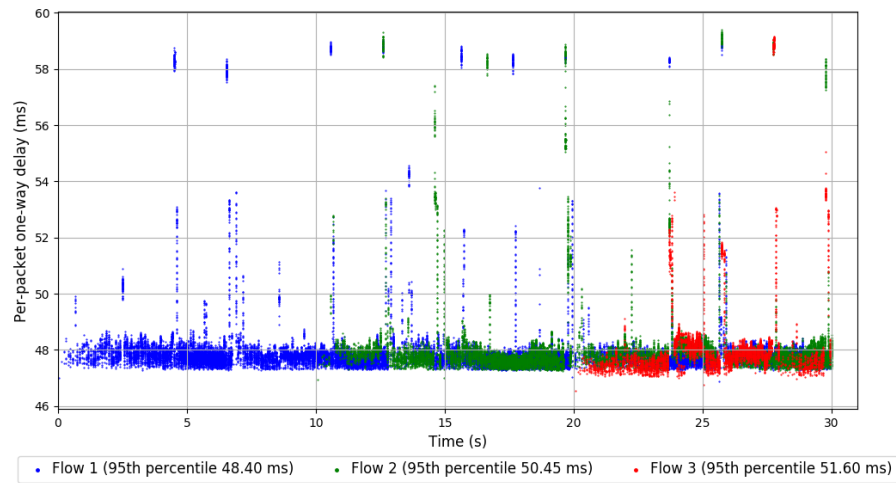
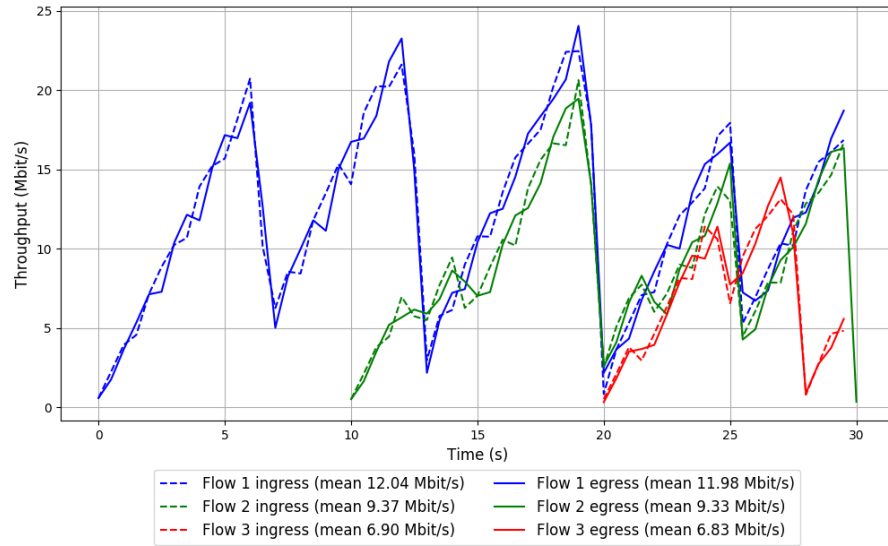


Run 9: Statistics of LEDBAT

Start at: 2017-09-18 23:50:54
End at: 2017-09-18 23:51:24
Local clock offset: -4.826 ms
Remote clock offset: -1.789 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.43 Mbit/s
95th percentile per-packet one-way delay: 49.128 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 48.395 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 51.603 ms
Loss rate: 0.98%

Run 9: Report of LEDBAT — Data Link

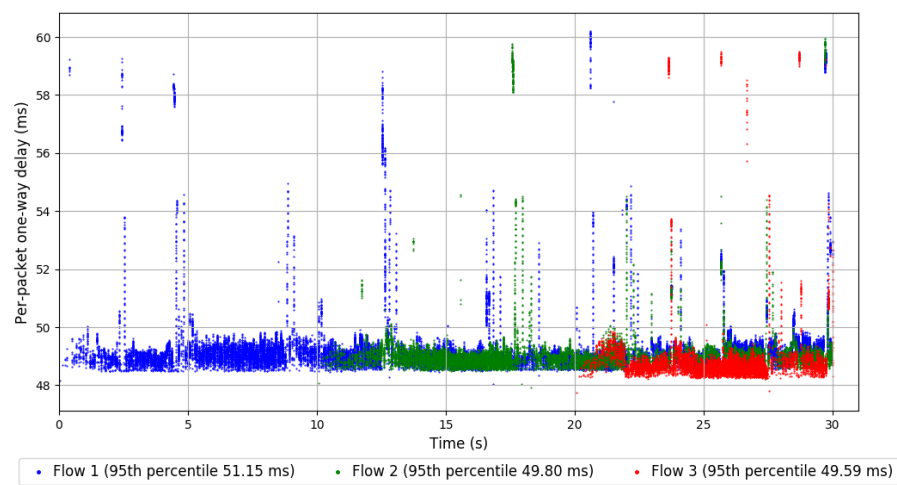
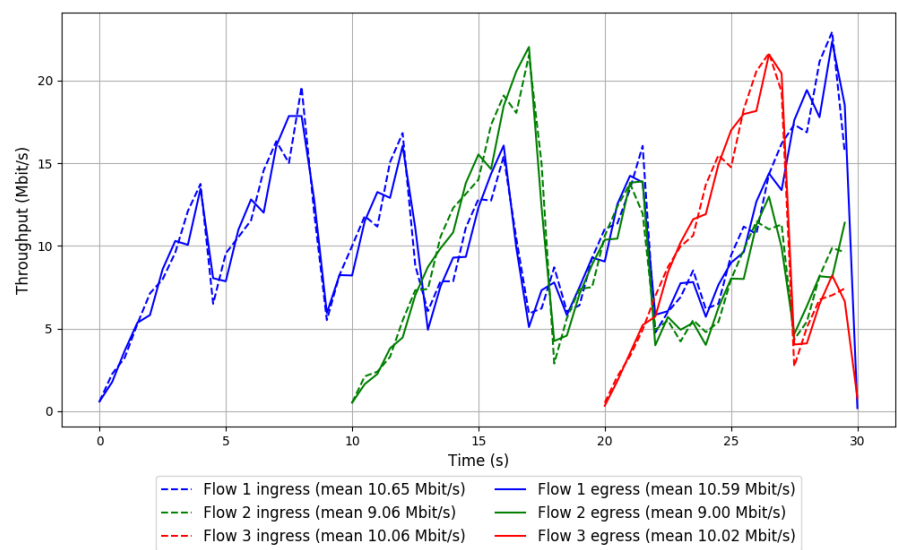


Run 10: Statistics of LEDBAT

Start at: 2017-09-19 00:04:04
End at: 2017-09-19 00:04:34
Local clock offset: -5.369 ms
Remote clock offset: -1.746 ms

Below is generated by plot.py at 2017-09-19 00:29:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 50.630 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 51.153 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 49.796 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 10.02 Mbit/s
95th percentile per-packet one-way delay: 49.586 ms
Loss rate: 0.40%

Run 10: Report of LEDBAT — Data Link

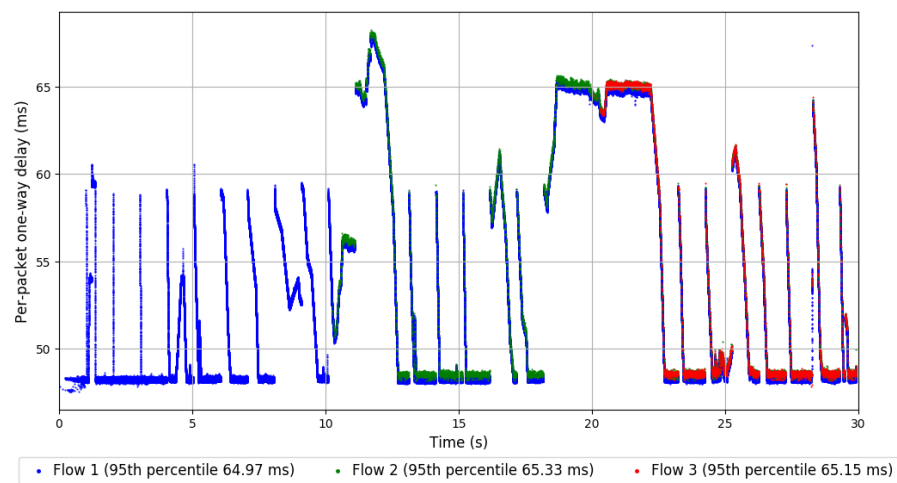
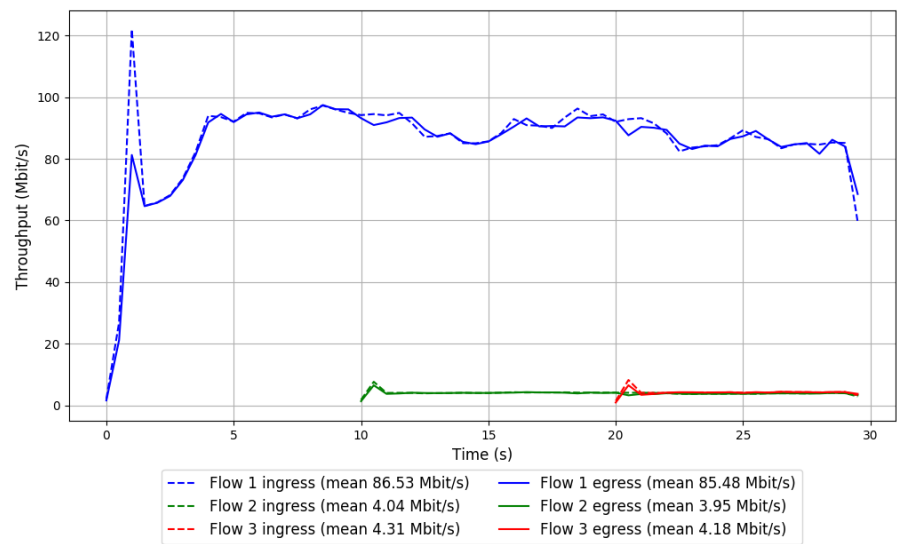


```
Run 1: Statistics of PCC

Start at: 2017-09-18 22:00:51
End at: 2017-09-18 22:01:21
Local clock offset: -6.013 ms
Remote clock offset: -1.095 ms

# Below is generated by plot.py at 2017-09-19 00:30:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 65.003 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 64.975 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 65.333 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 65.149 ms
Loss rate: 3.20%
```


Run 1: Report of PCC — Data Link

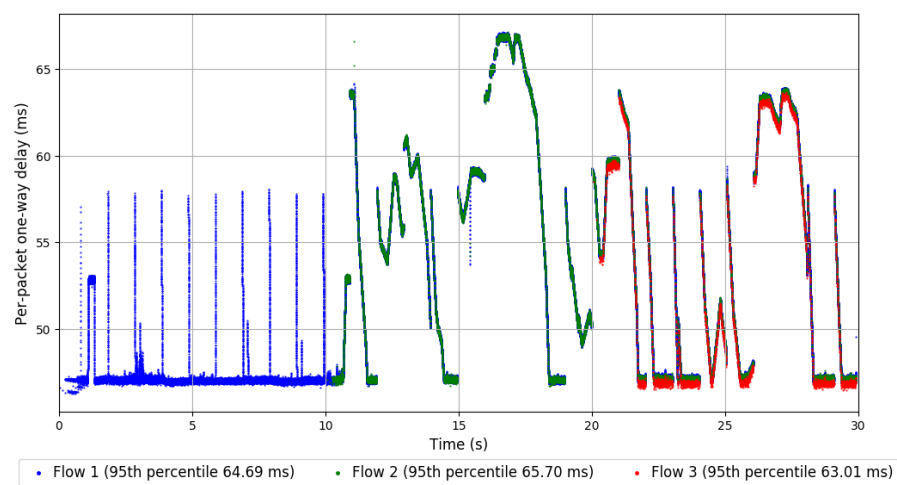
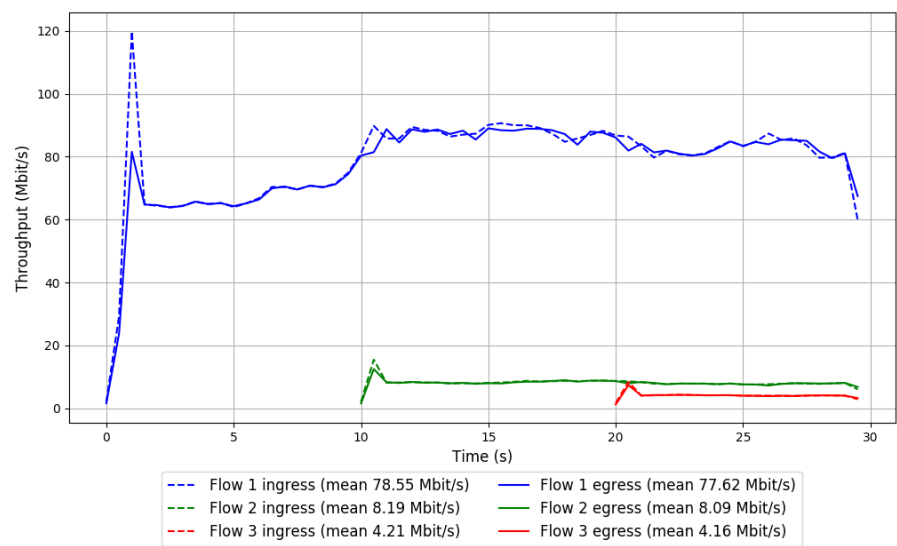


Run 2: Statistics of PCC

Start at: 2017-09-18 22:13:20
End at: 2017-09-18 22:13:50
Local clock offset: -4.847 ms
Remote clock offset: -1.395 ms

Below is generated by plot.py at 2017-09-19 00:30:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 64.700 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 77.62 Mbit/s
95th percentile per-packet one-way delay: 64.688 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 65.697 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 63.008 ms
Loss rate: 1.38%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-18 22:25:46

End at: 2017-09-18 22:26:16

Local clock offset: -6.04 ms

Remote clock offset: -1.44 ms

Below is generated by plot.py at 2017-09-19 00:30:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.37 Mbit/s

95th percentile per-packet one-way delay: 65.225 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 65.191 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 65.413 ms

Loss rate: 2.27%

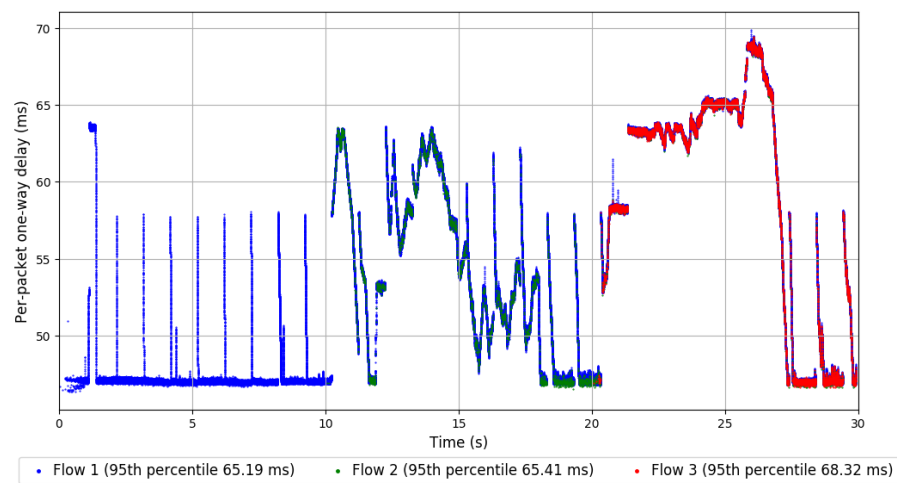
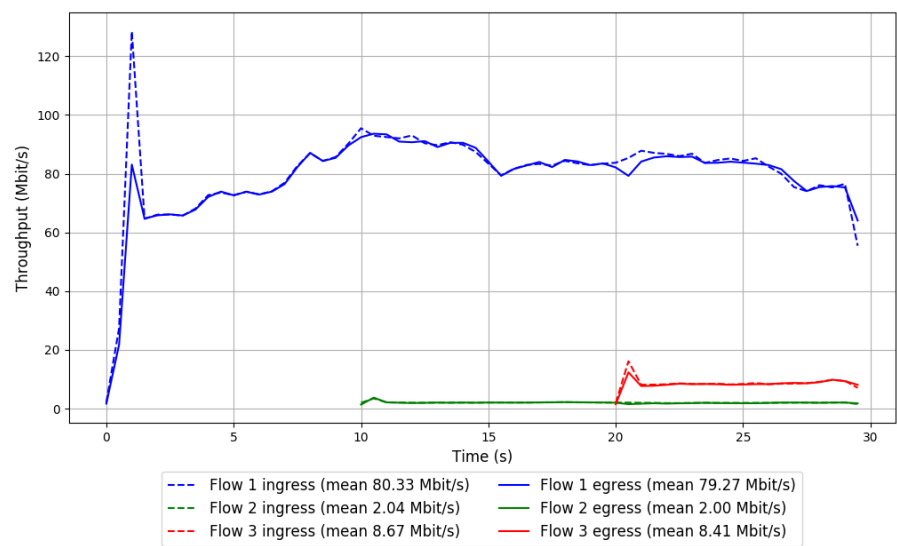
-- Flow 3:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 68.316 ms

Loss rate: 3.00%

Run 3: Report of PCC — Data Link

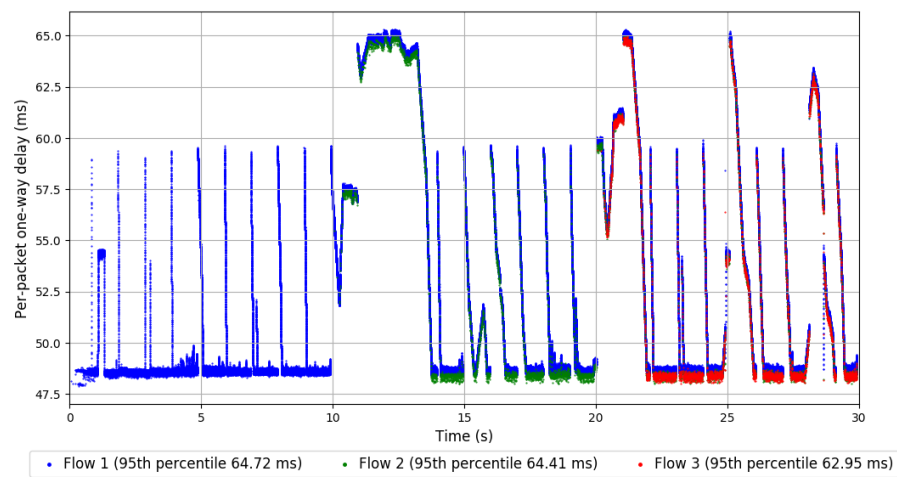
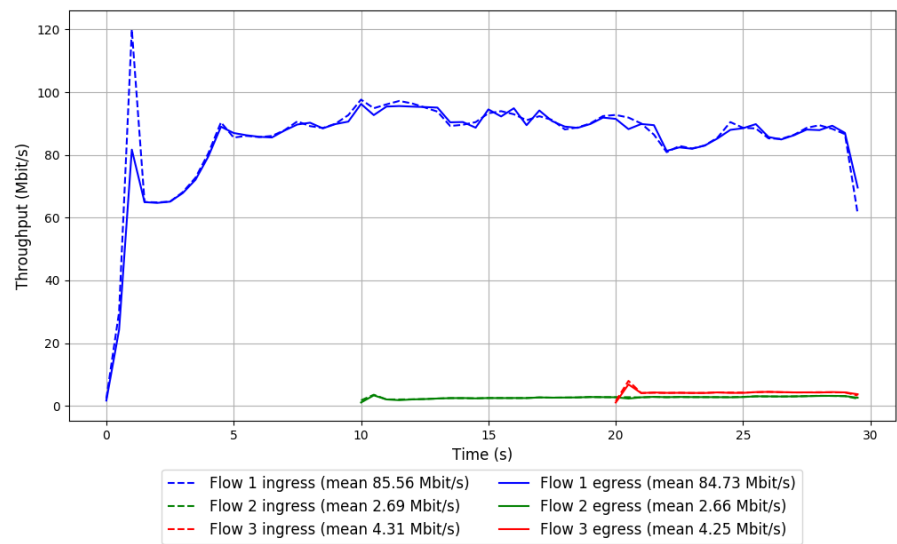


Run 4: Statistics of PCC

Start at: 2017-09-18 22:38:11
End at: 2017-09-18 22:38:41
Local clock offset: -7.844 ms
Remote clock offset: -1.721 ms

Below is generated by plot.py at 2017-09-19 00:30:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 64.705 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 64.723 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 64.407 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 62.952 ms
Loss rate: 1.45%

Run 4: Report of PCC — Data Link

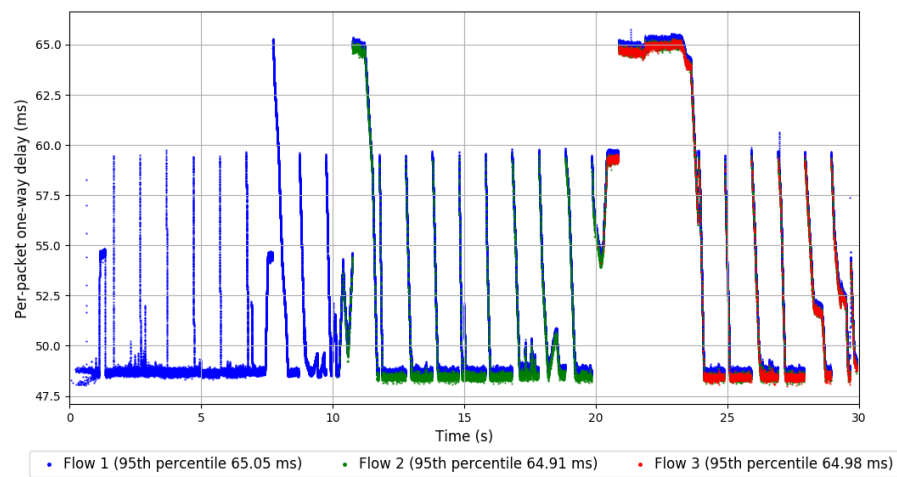
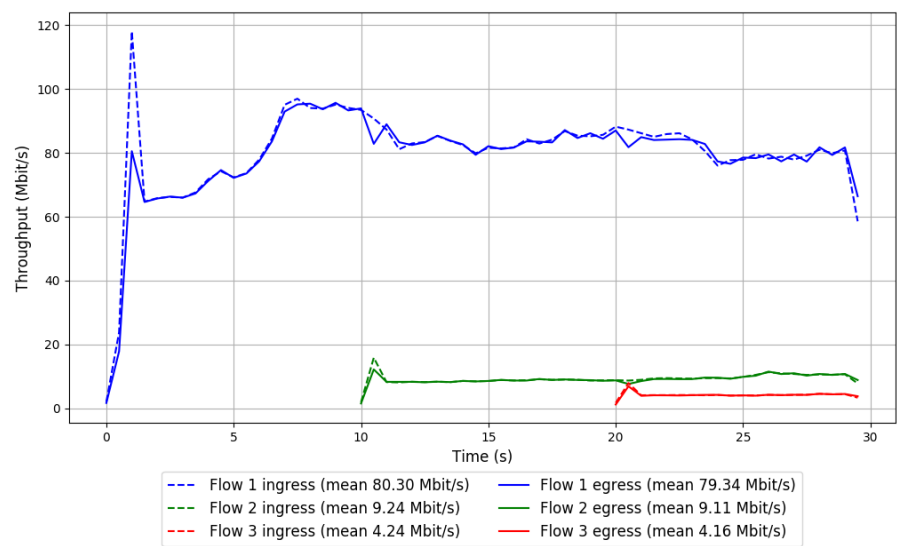


Run 5: Statistics of PCC

Start at: 2017-09-18 22:50:43
End at: 2017-09-18 22:51:13
Local clock offset: -8.595 ms
Remote clock offset: -1.763 ms

Below is generated by plot.py at 2017-09-19 00:30:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.77 Mbit/s
95th percentile per-packet one-way delay: 65.029 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 79.34 Mbit/s
95th percentile per-packet one-way delay: 65.045 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 9.11 Mbit/s
95th percentile per-packet one-way delay: 64.908 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 64.984 ms
Loss rate: 1.74%

Run 5: Report of PCC — Data Link

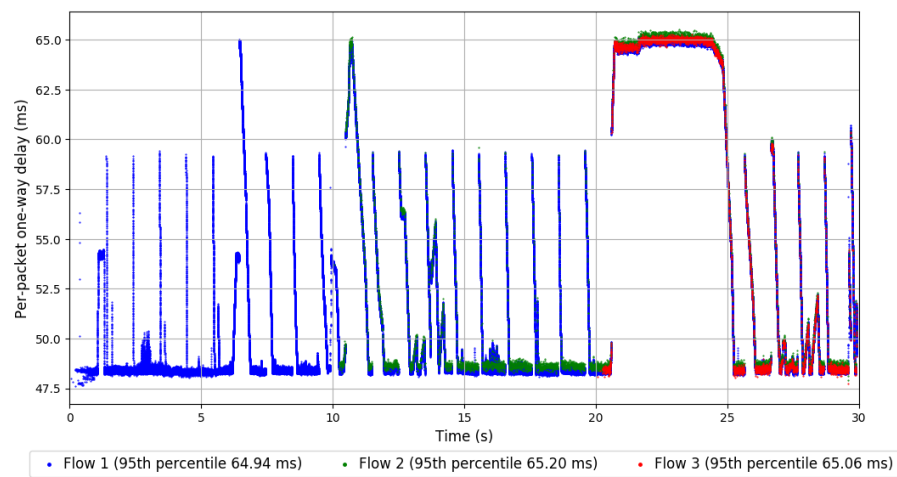
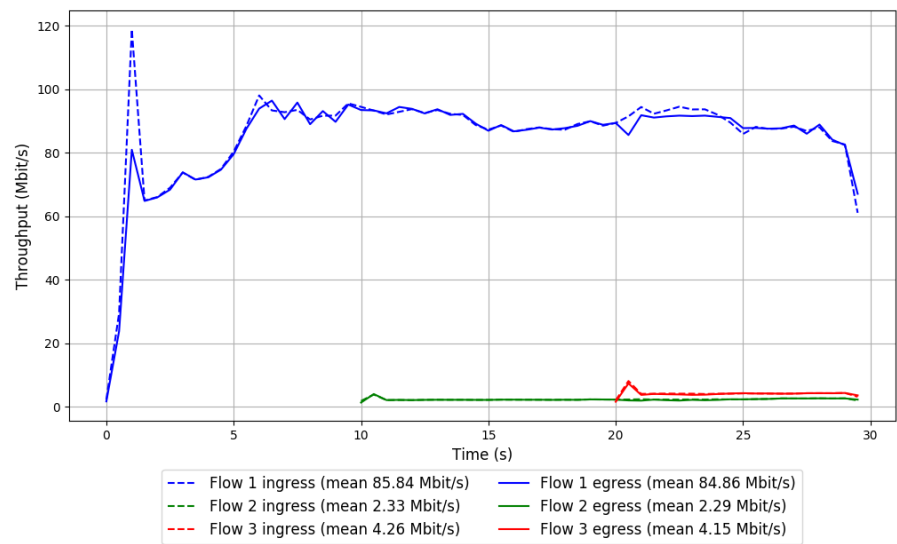


Run 6: Statistics of PCC

Start at: 2017-09-18 23:03:15
End at: 2017-09-18 23:03:45
Local clock offset: -7.958 ms
Remote clock offset: -1.806 ms

Below is generated by plot.py at 2017-09-19 00:30:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 64.947 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 84.86 Mbit/s
95th percentile per-packet one-way delay: 64.939 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 65.205 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 65.065 ms
Loss rate: 2.62%

Run 6: Report of PCC — Data Link

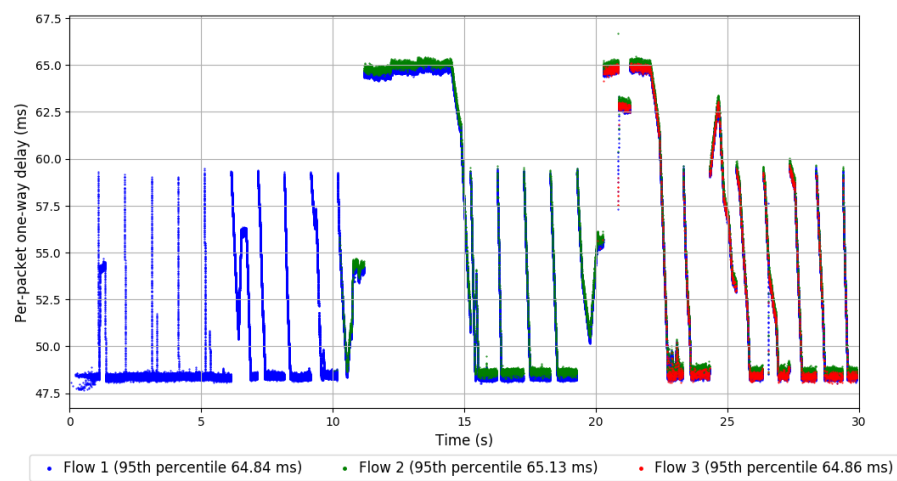
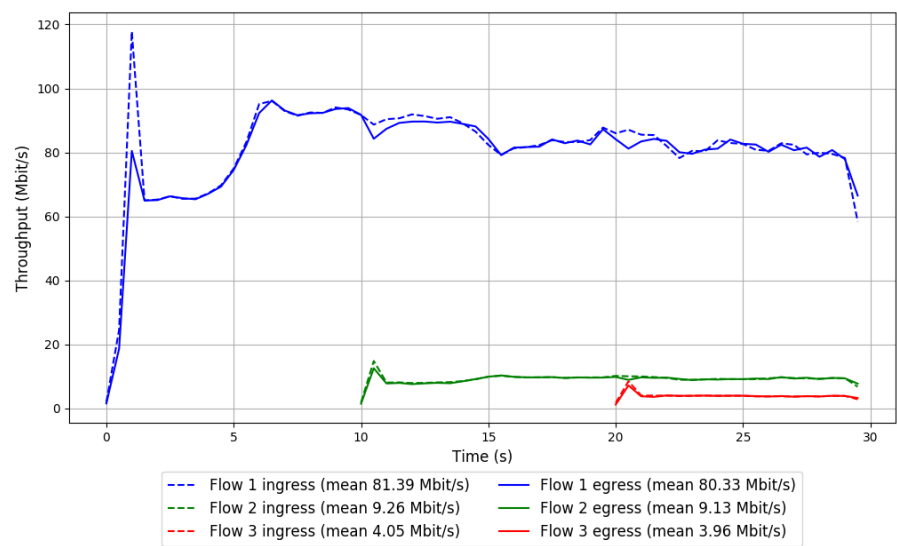


Run 7: Statistics of PCC

Start at: 2017-09-18 23:15:41
End at: 2017-09-18 23:16:11
Local clock offset: -6.155 ms
Remote clock offset: -1.796 ms

Below is generated by plot.py at 2017-09-19 00:31:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 64.863 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 80.33 Mbit/s
95th percentile per-packet one-way delay: 64.841 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 65.134 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 64.861 ms
Loss rate: 2.42%

Run 7: Report of PCC — Data Link

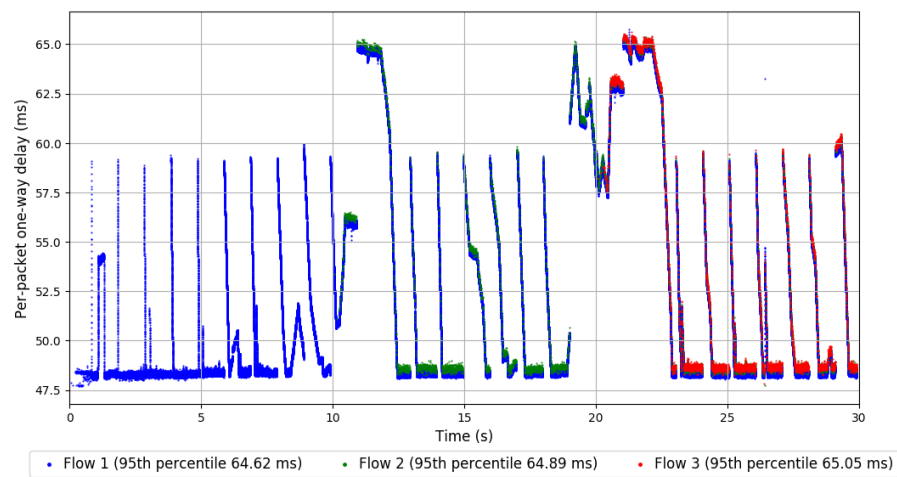
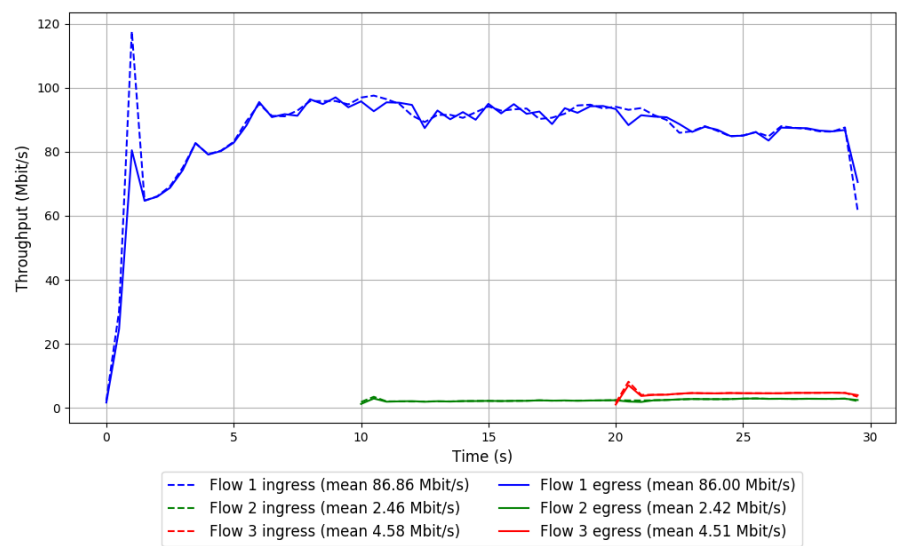


Run 8: Statistics of PCC

Start at: 2017-09-18 23:28:09
End at: 2017-09-18 23:28:39
Local clock offset: -5.393 ms
Remote clock offset: -1.776 ms

Below is generated by plot.py at 2017-09-19 00:31:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 64.632 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 64.621 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 64.890 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 65.047 ms
Loss rate: 1.68%

Run 8: Report of PCC — Data Link

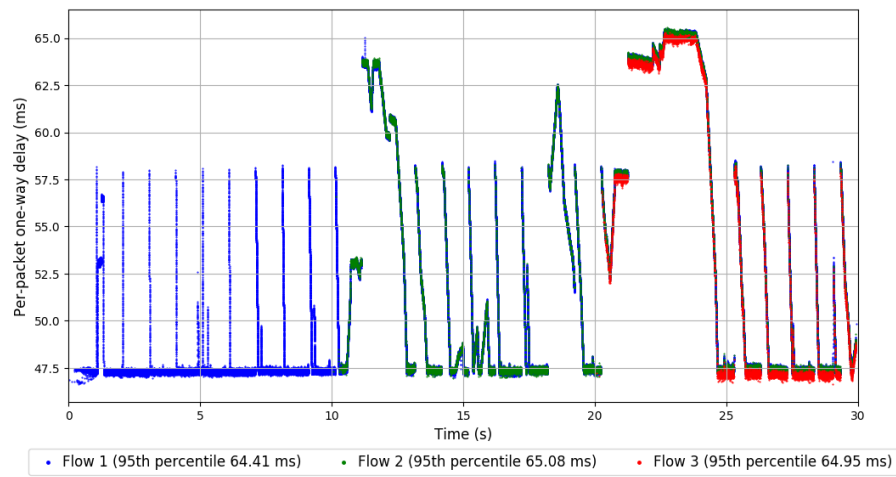
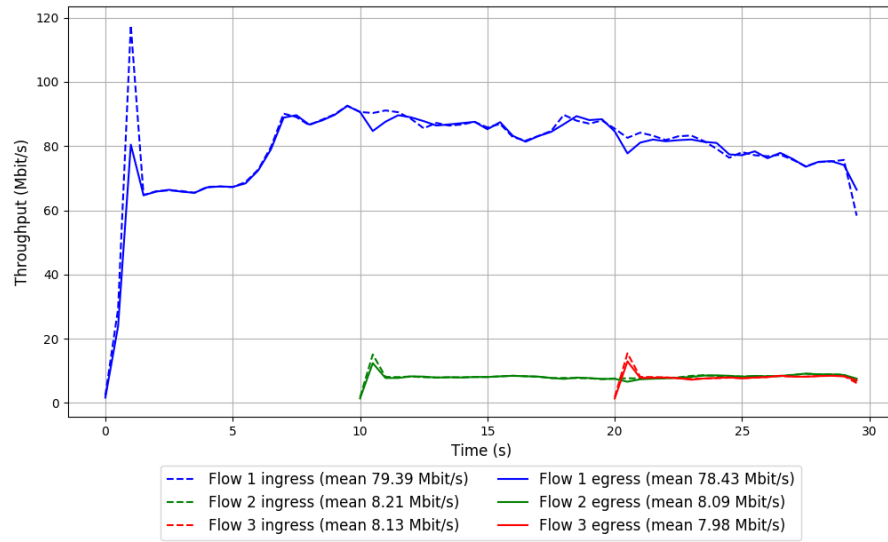


Run 9: Statistics of PCC

Start at: 2017-09-18 23:40:54
End at: 2017-09-18 23:41:24
Local clock offset: -4.384 ms
Remote clock offset: -1.854 ms

Below is generated by plot.py at 2017-09-19 00:31:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 64.569 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 78.43 Mbit/s
95th percentile per-packet one-way delay: 64.409 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 65.084 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 64.949 ms
Loss rate: 1.81%

Run 9: Report of PCC — Data Link

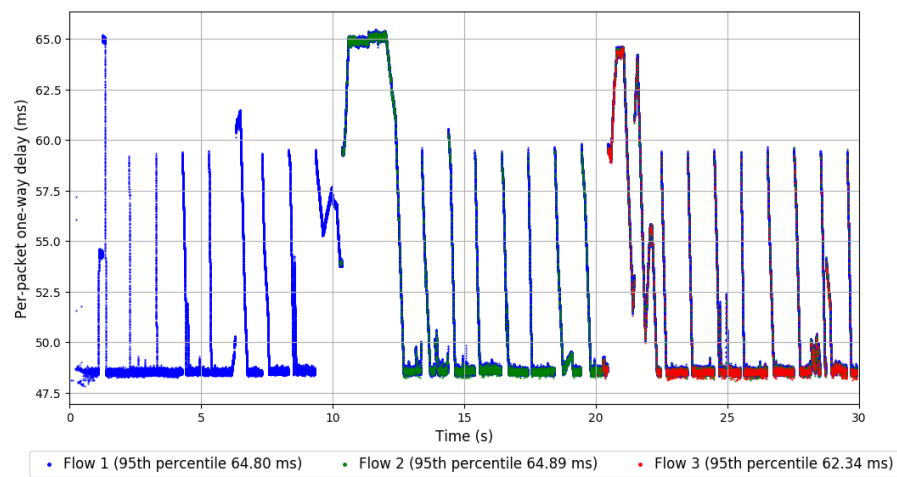
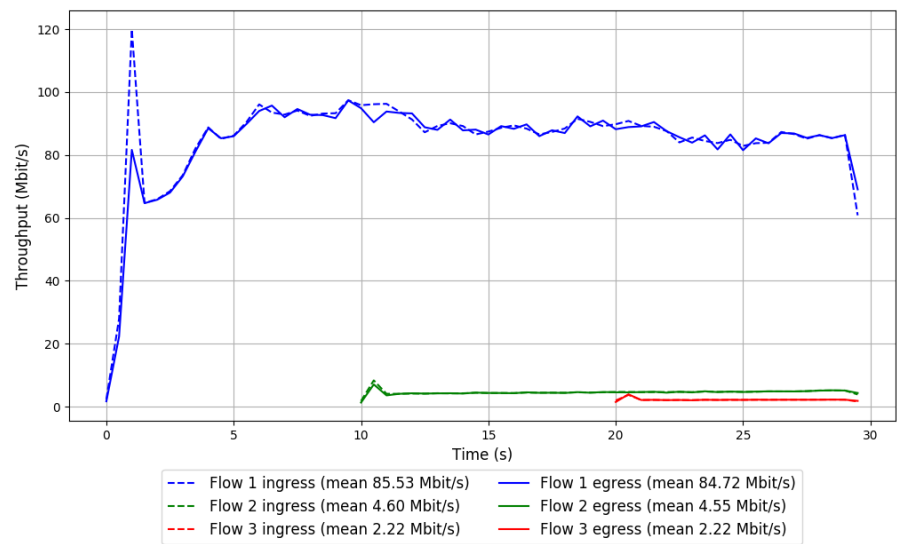


Run 10: Statistics of PCC

Start at: 2017-09-18 23:53:30
End at: 2017-09-18 23:54:00
Local clock offset: -6.022 ms
Remote clock offset: -1.841 ms

Below is generated by plot.py at 2017-09-19 00:31:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 64.796 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 64.796 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 64.886 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 62.345 ms
Loss rate: 0.07%

Run 10: Report of PCC — Data Link

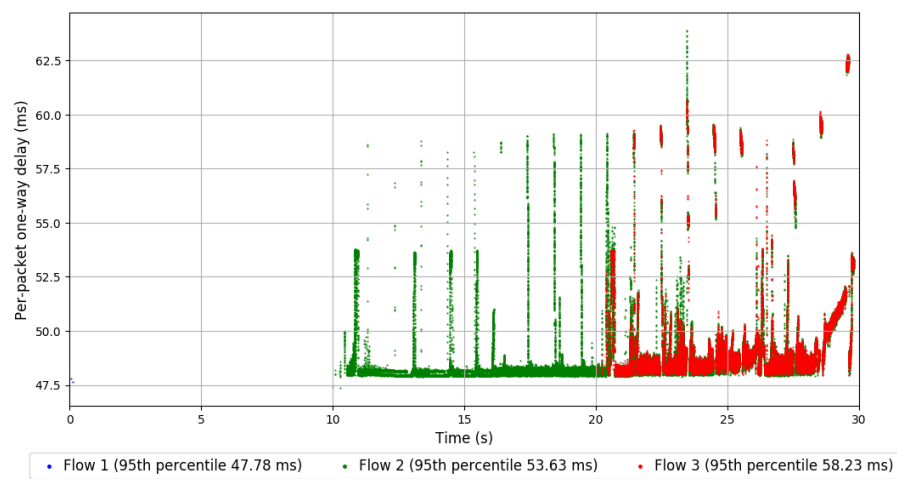
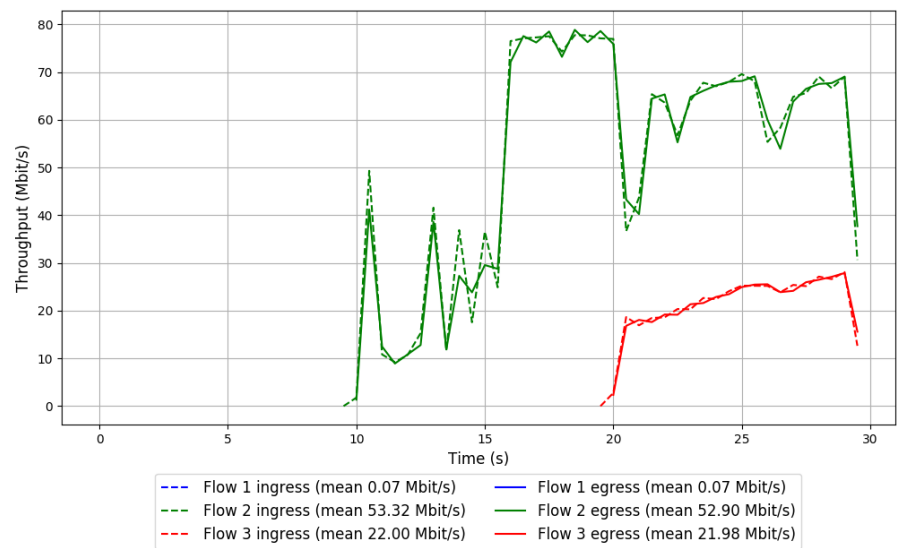


Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 22:05:44
End at: 2017-09-18 22:06:14
Local clock offset: -5.881 ms
Remote clock offset: -1.248 ms

Below is generated by plot.py at 2017-09-19 00:31:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.41 Mbit/s
95th percentile per-packet one-way delay: 54.130 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 47.784 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.90 Mbit/s
95th percentile per-packet one-way delay: 53.629 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 21.98 Mbit/s
95th percentile per-packet one-way delay: 58.230 ms
Loss rate: 0.07%

Run 1: Report of QUIC Cubic — Data Link

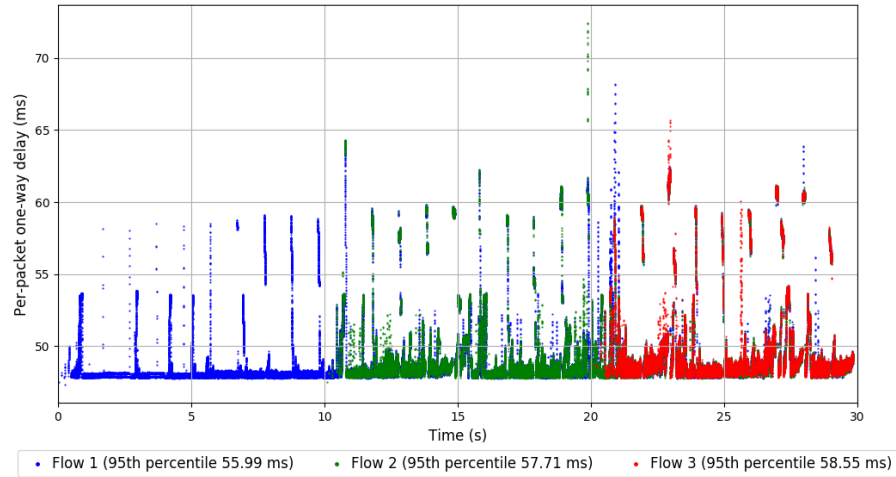
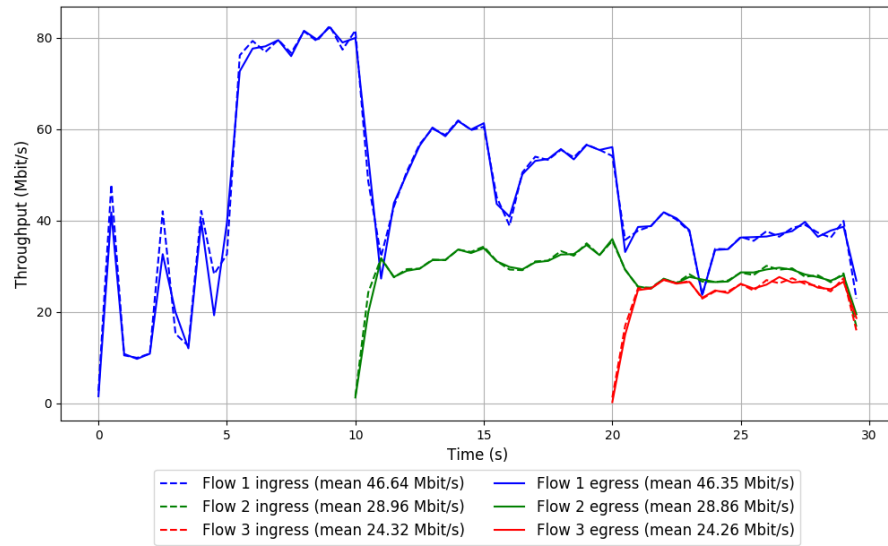


Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 22:18:15
End at: 2017-09-18 22:18:45
Local clock offset: -6.558 ms
Remote clock offset: -1.465 ms

Below is generated by plot.py at 2017-09-19 00:31:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 56.889 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 55.986 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 57.710 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 58.549 ms
Loss rate: 0.24%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 22:30:39

End at: 2017-09-18 22:31:09

Local clock offset: -7.809 ms

Remote clock offset: -1.41 ms

Below is generated by plot.py at 2017-09-19 00:31:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.23 Mbit/s

95th percentile per-packet one-way delay: 56.843 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 44.86 Mbit/s

95th percentile per-packet one-way delay: 55.739 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 57.826 ms

Loss rate: 0.51%

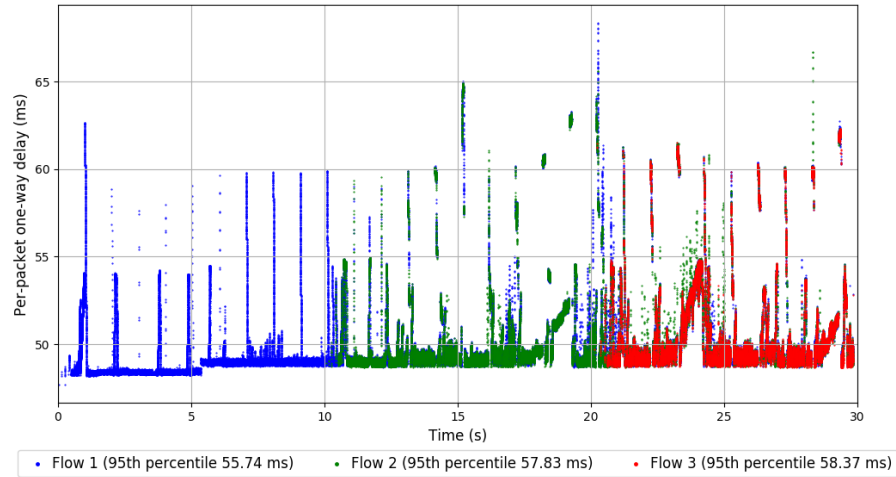
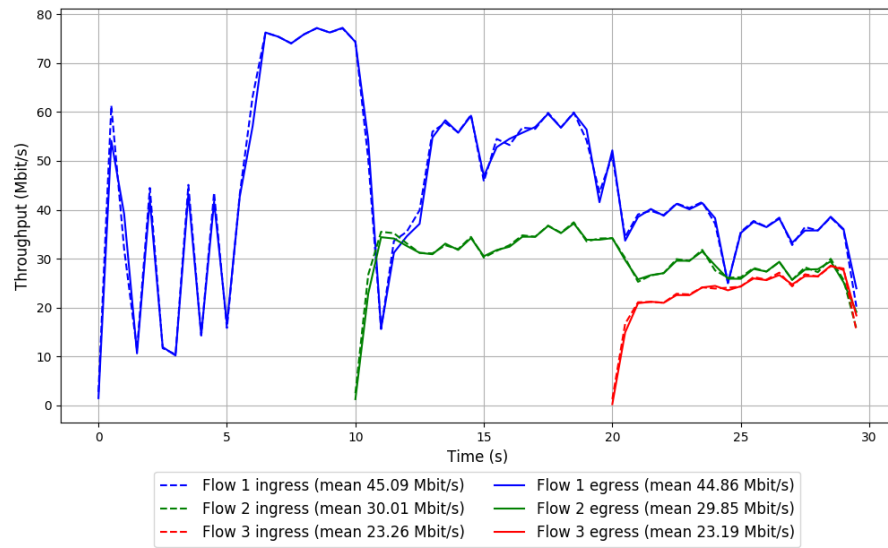
-- Flow 3:

Average throughput: 23.19 Mbit/s

95th percentile per-packet one-way delay: 58.368 ms

Loss rate: 0.28%

Run 3: Report of QUIC Cubic — Data Link

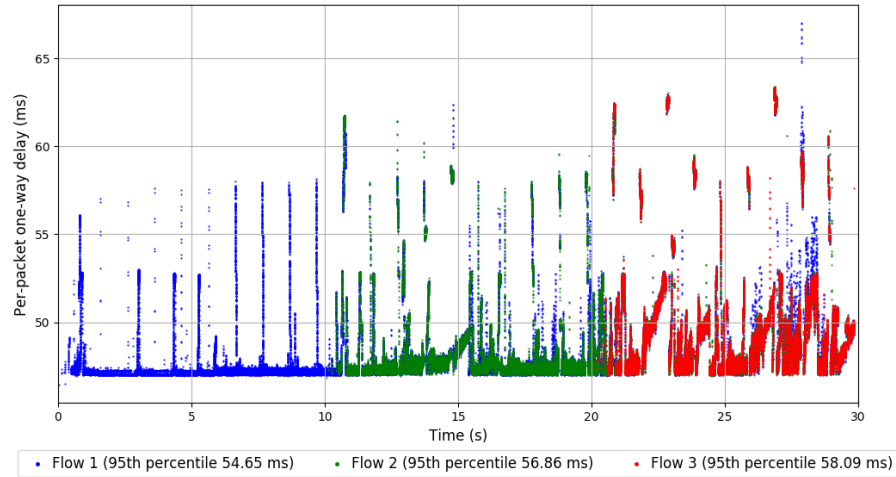
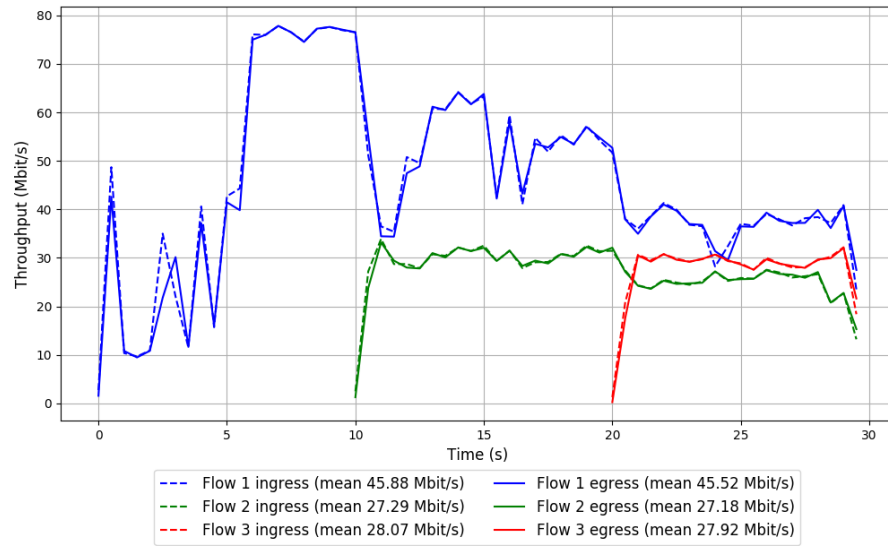


Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 22:43:04
End at: 2017-09-18 22:43:34
Local clock offset: -6.901 ms
Remote clock offset: -1.739 ms

Below is generated by plot.py at 2017-09-19 00:31:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.64 Mbit/s
95th percentile per-packet one-way delay: 55.612 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 45.52 Mbit/s
95th percentile per-packet one-way delay: 54.651 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 27.18 Mbit/s
95th percentile per-packet one-way delay: 56.864 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 58.088 ms
Loss rate: 0.41%

Run 4: Report of QUIC Cubic — Data Link

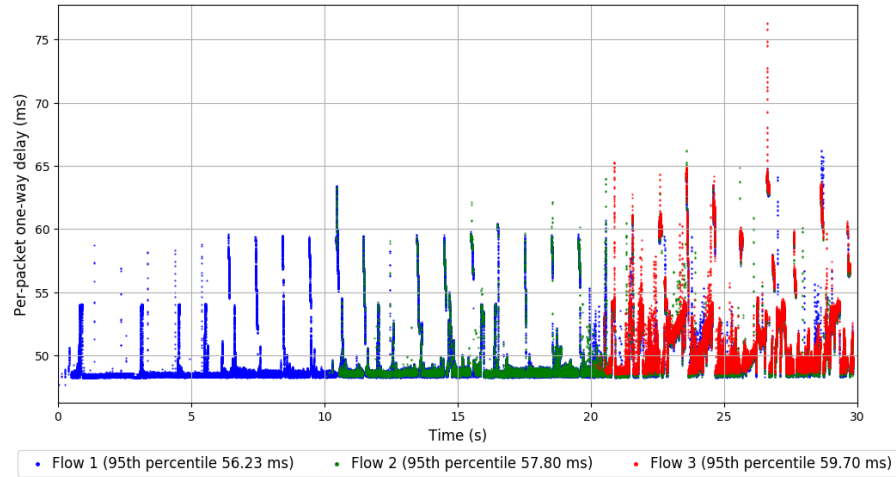
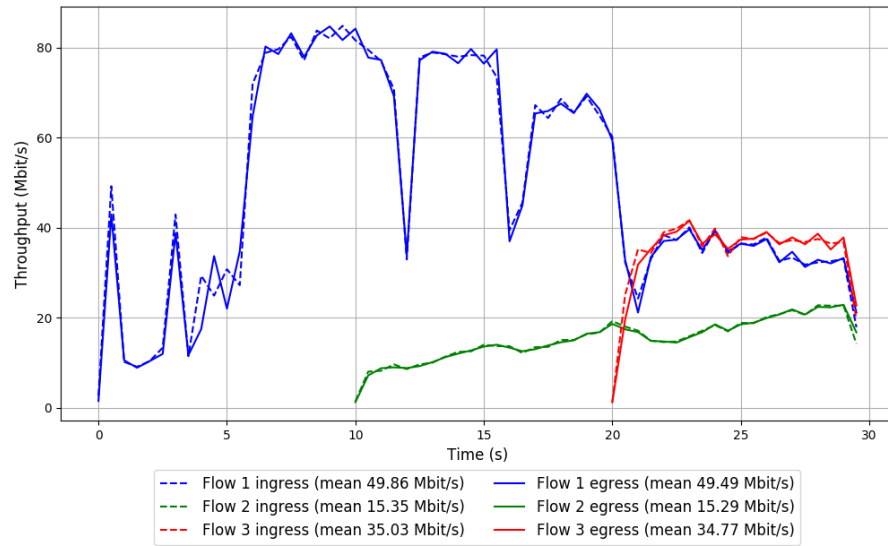


Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 22:55:38
End at: 2017-09-18 22:56:08
Local clock offset: -8.426 ms
Remote clock offset: -1.821 ms

Below is generated by plot.py at 2017-09-19 00:32:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.98 Mbit/s
95th percentile per-packet one-way delay: 56.971 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 56.225 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 57.795 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 34.77 Mbit/s
95th percentile per-packet one-way delay: 59.703 ms
Loss rate: 0.75%

Run 5: Report of QUIC Cubic — Data Link

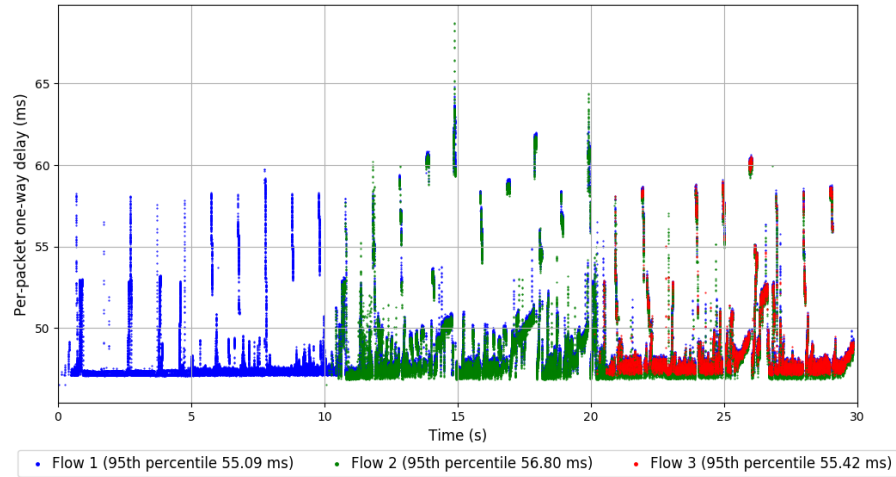
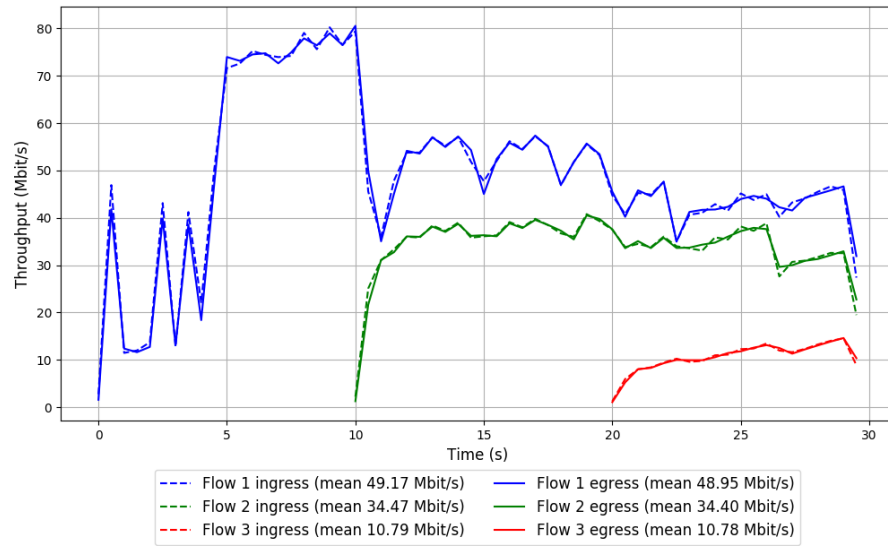


Run 6: Statistics of QUIC Cubic

Start at: 2017-09-18 23:08:10
End at: 2017-09-18 23:08:40
Local clock offset: -6.588 ms
Remote clock offset: -1.776 ms

Below is generated by plot.py at 2017-09-19 00:32:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.29 Mbit/s
95th percentile per-packet one-way delay: 55.698 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 48.95 Mbit/s
95th percentile per-packet one-way delay: 55.088 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 34.40 Mbit/s
95th percentile per-packet one-way delay: 56.797 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 10.78 Mbit/s
95th percentile per-packet one-way delay: 55.421 ms
Loss rate: 0.12%

Run 6: Report of QUIC Cubic — Data Link

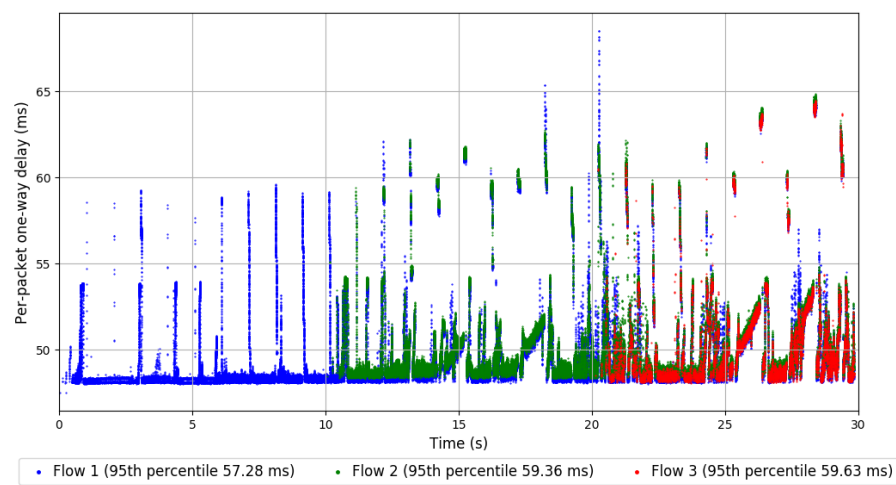
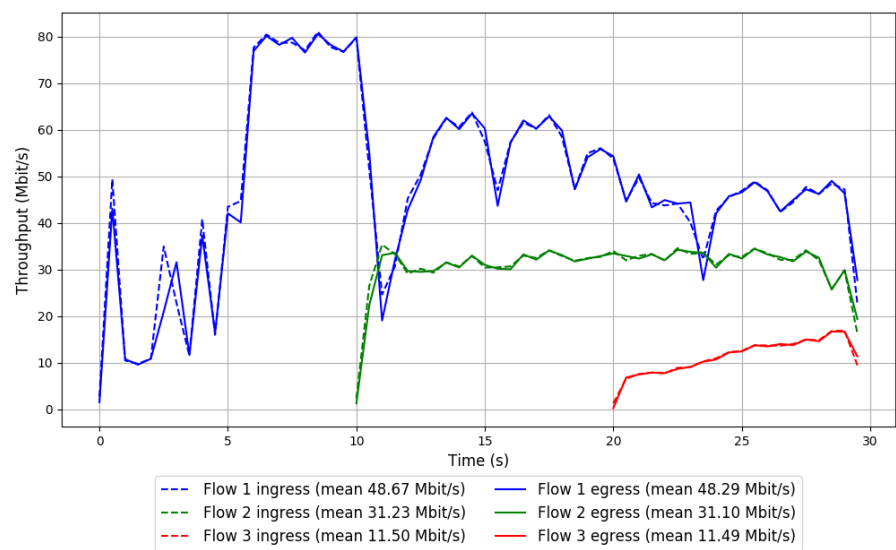


Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 23:20:35
End at: 2017-09-18 23:21:05
Local clock offset: -5.572 ms
Remote clock offset: -1.813 ms

Below is generated by plot.py at 2017-09-19 00:32:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 57.913 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 48.29 Mbit/s
95th percentile per-packet one-way delay: 57.283 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 59.360 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 59.629 ms
Loss rate: 0.09%

Run 7: Report of QUIC Cubic — Data Link

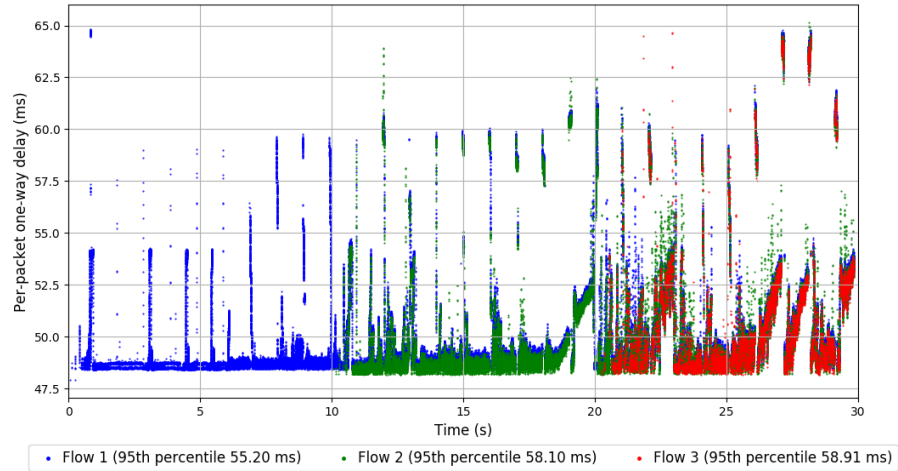
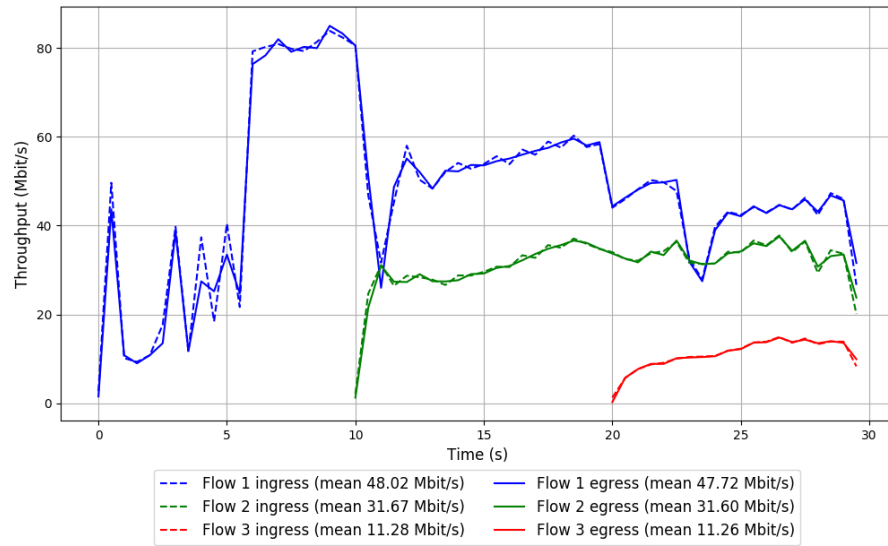


Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 23:33:07
End at: 2017-09-18 23:33:37
Local clock offset: -5.542 ms
Remote clock offset: -1.847 ms

Below is generated by plot.py at 2017-09-19 00:33:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 56.425 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 47.72 Mbit/s
95th percentile per-packet one-way delay: 55.199 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 58.100 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 58.908 ms
Loss rate: 0.08%

Run 8: Report of QUIC Cubic — Data Link

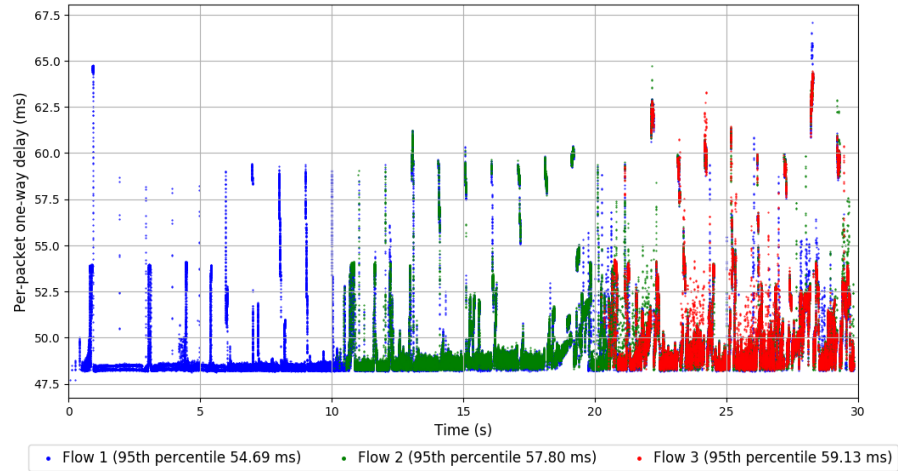
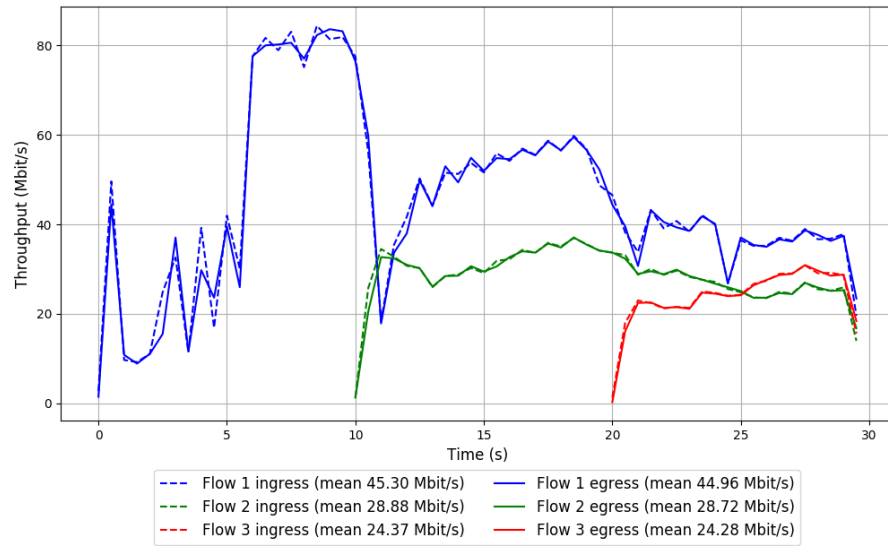


Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 23:45:51
End at: 2017-09-18 23:46:21
Local clock offset: -5.928 ms
Remote clock offset: -1.867 ms

Below is generated by plot.py at 2017-09-19 00:33:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.89 Mbit/s
95th percentile per-packet one-way delay: 56.274 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 44.96 Mbit/s
95th percentile per-packet one-way delay: 54.691 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 57.796 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 59.128 ms
Loss rate: 0.35%

Run 9: Report of QUIC Cubic — Data Link

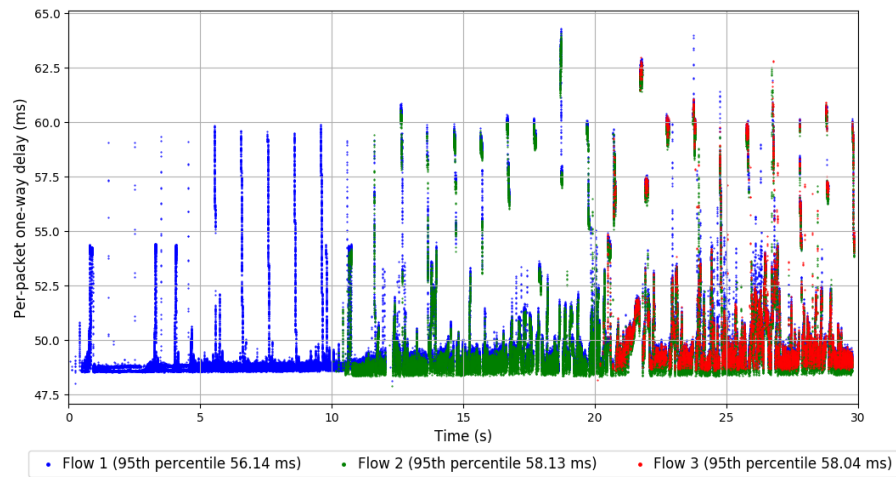
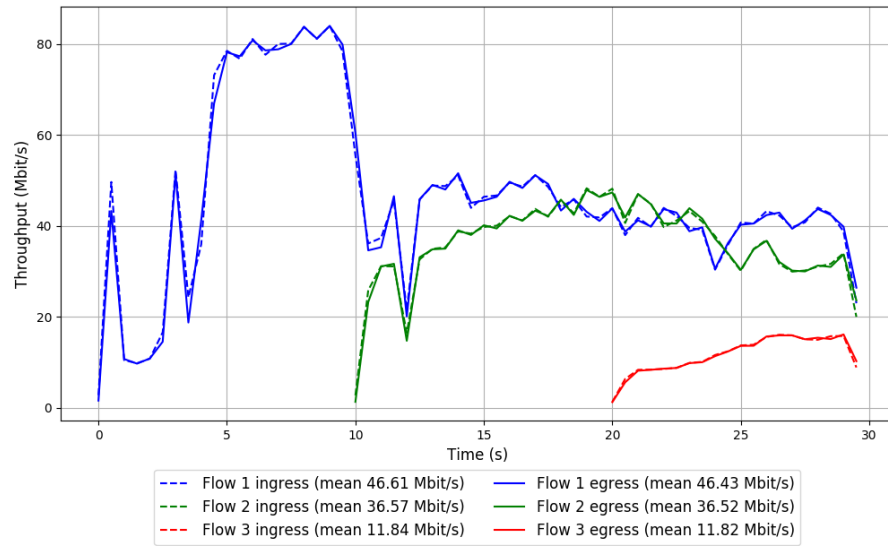


Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 23:58:32
End at: 2017-09-18 23:59:02
Local clock offset: -6.296 ms
Remote clock offset: -1.824 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.55 Mbit/s
95th percentile per-packet one-way delay: 57.022 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 56.143 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 36.52 Mbit/s
95th percentile per-packet one-way delay: 58.133 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 58.042 ms
Loss rate: 0.09%

Run 10: Report of QUIC Cubic — Data Link

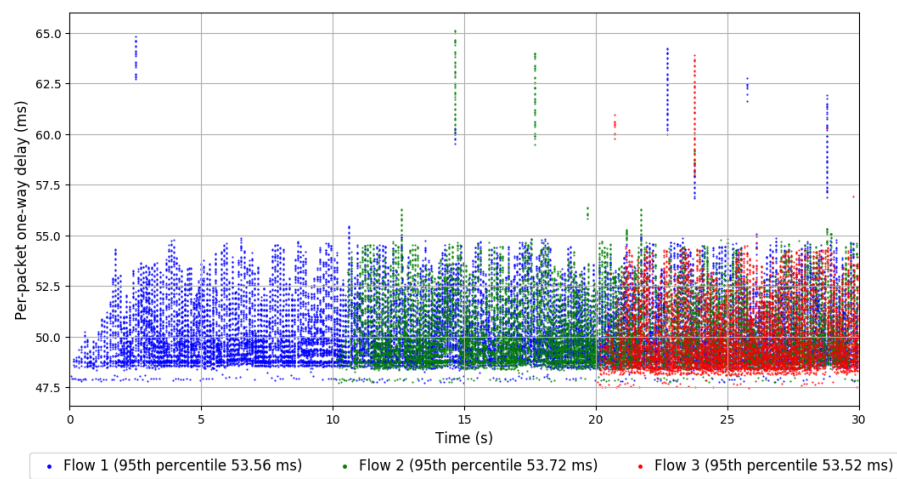
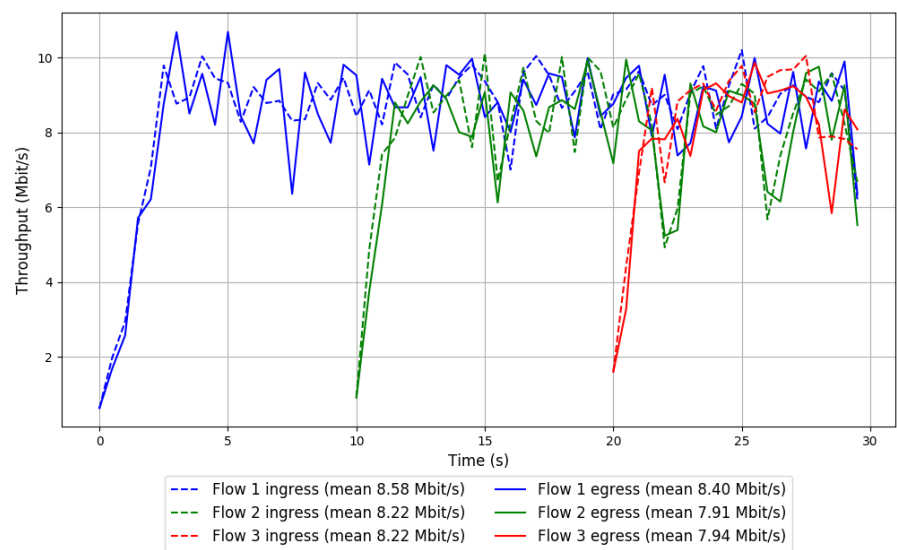


Run 1: Statistics of Sprout

Start at: 2017-09-18 22:02:05
End at: 2017-09-18 22:02:35
Local clock offset: -5.972 ms
Remote clock offset: -1.132 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.28 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 53.564 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 53.717 ms
Loss rate: 3.79%
-- Flow 3:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 53.519 ms
Loss rate: 3.33%

Run 1: Report of Sprout — Data Link

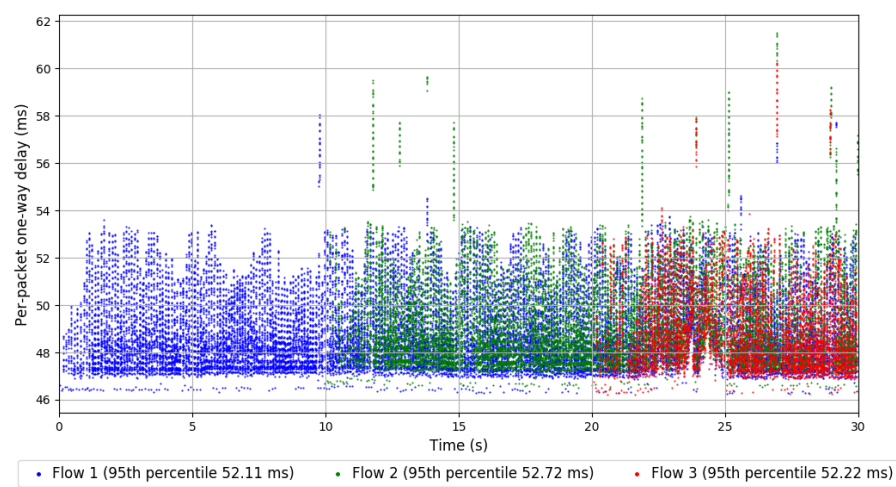
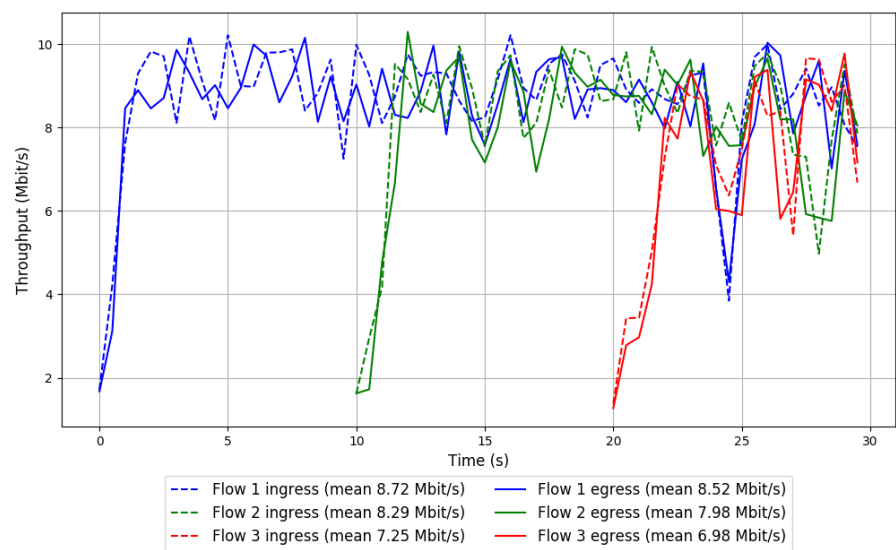


Run 2: Statistics of Sprout

Start at: 2017-09-18 22:14:35
End at: 2017-09-18 22:15:05
Local clock offset: -5.22 ms
Remote clock offset: -1.438 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 52.336 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 52.108 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 52.717 ms
Loss rate: 3.75%
-- Flow 3:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 52.215 ms
Loss rate: 3.68%

Run 2: Report of Sprout — Data Link

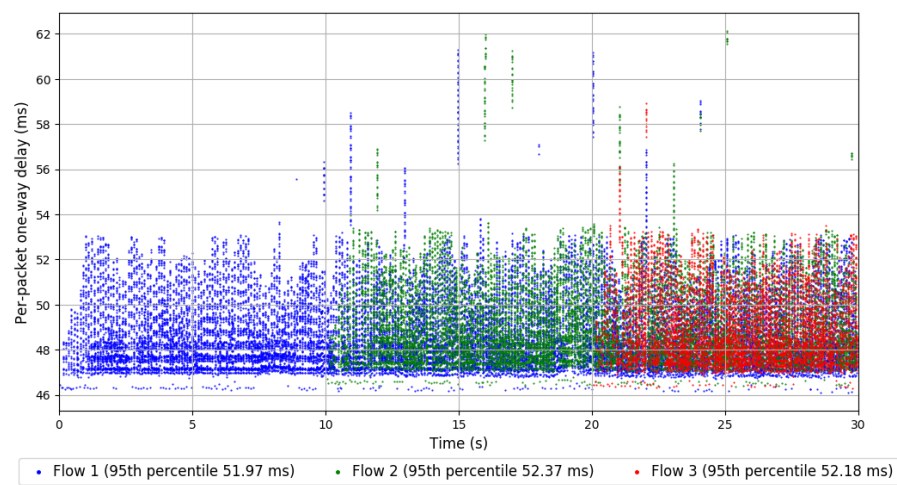
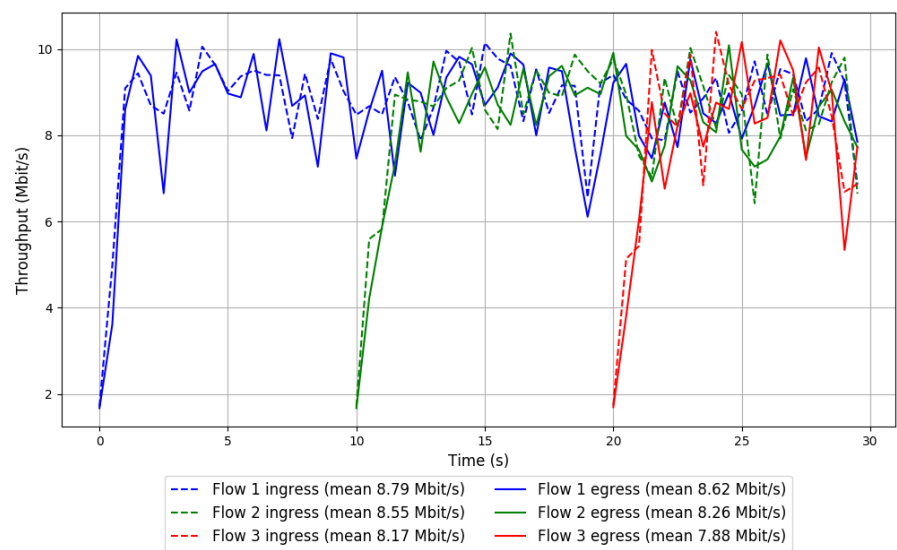


Run 3: Statistics of Sprout

Start at: 2017-09-18 22:27:00
End at: 2017-09-18 22:27:30
Local clock offset: -6.325 ms
Remote clock offset: -1.453 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.71 Mbit/s
95th percentile per-packet one-way delay: 52.152 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 51.966 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 52.372 ms
Loss rate: 3.31%
-- Flow 3:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 52.180 ms
Loss rate: 3.51%

Run 3: Report of Sprout — Data Link

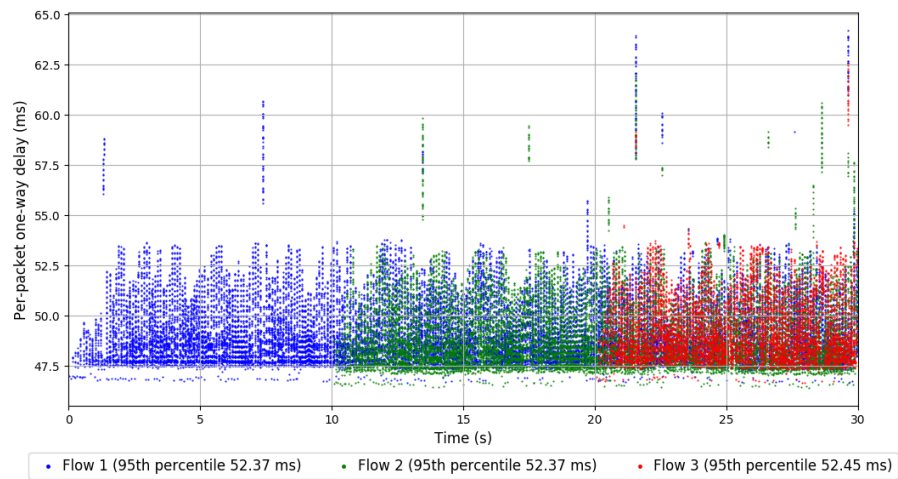
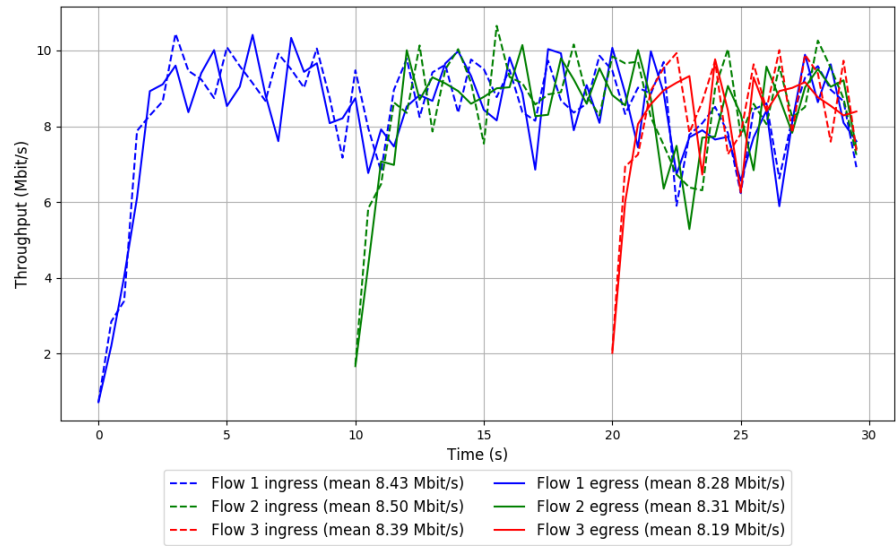


Run 4: Statistics of Sprout

Start at: 2017-09-18 22:39:25
End at: 2017-09-18 22:39:55
Local clock offset: -6.765 ms
Remote clock offset: -1.758 ms

```
# Below is generated by plot.py at 2017-09-19 00:33:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 52.384 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 52.373 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 52.366 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 52.453 ms
Loss rate: 2.30%
```

Run 4: Report of Sprout — Data Link

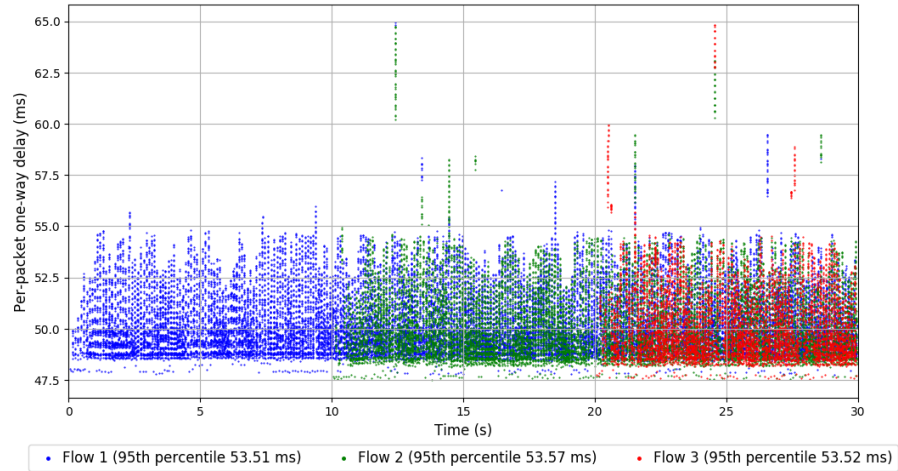
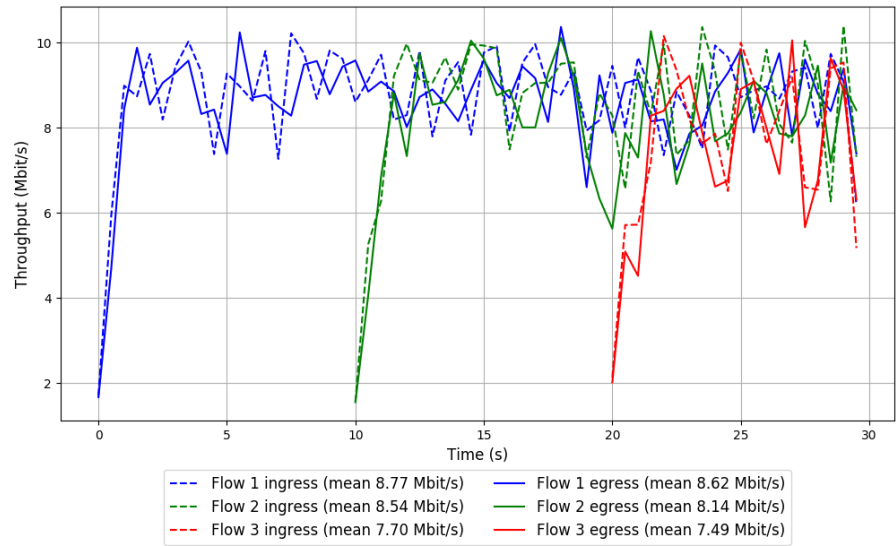


Run 5: Statistics of Sprout

Start at: 2017-09-18 22:51:58
End at: 2017-09-18 22:52:28
Local clock offset: -8.532 ms
Remote clock offset: -1.766 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 53.530 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 53.505 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 53.567 ms
Loss rate: 4.70%
-- Flow 3:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 53.516 ms
Loss rate: 2.70%

Run 5: Report of Sprout — Data Link

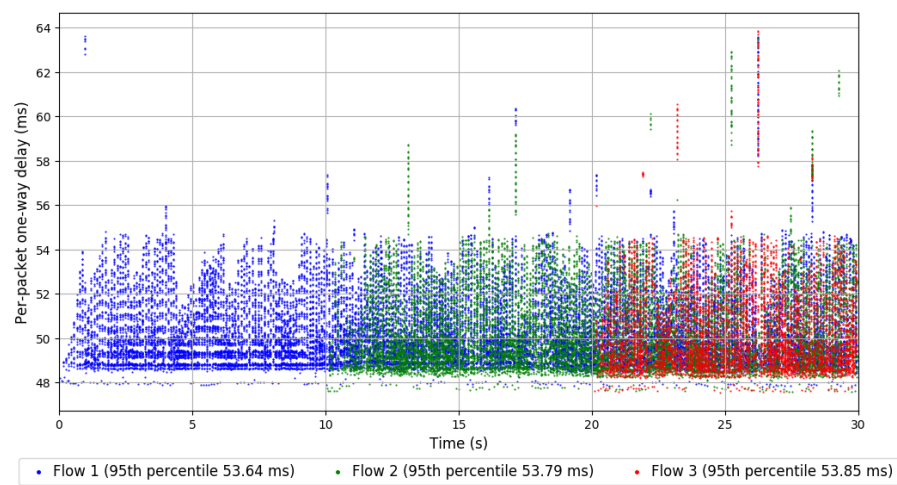
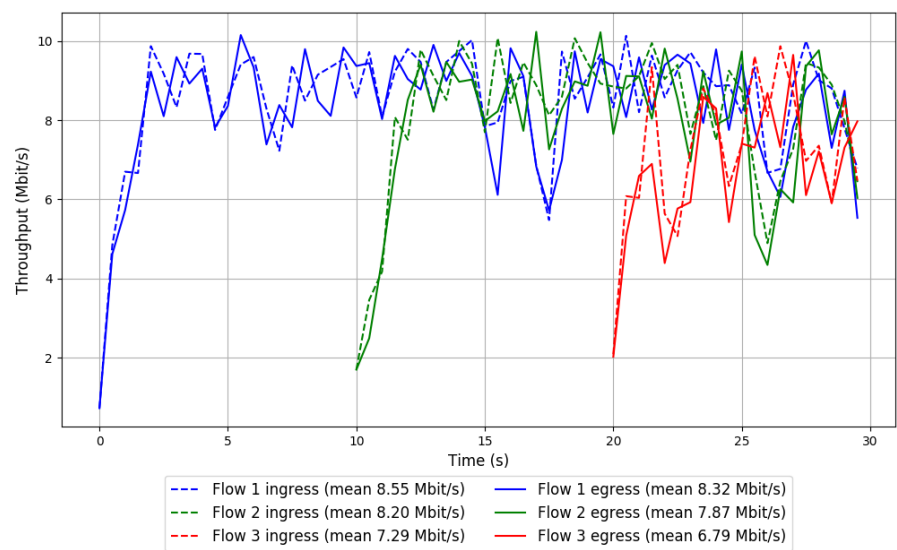


Run 6: Statistics of Sprout

Start at: 2017-09-18 23:04:31
End at: 2017-09-18 23:05:01
Local clock offset: -7.857 ms
Remote clock offset: -1.788 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 53.723 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 53.636 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 53.786 ms
Loss rate: 3.95%
-- Flow 3:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 53.850 ms
Loss rate: 6.85%

Run 6: Report of Sprout — Data Link

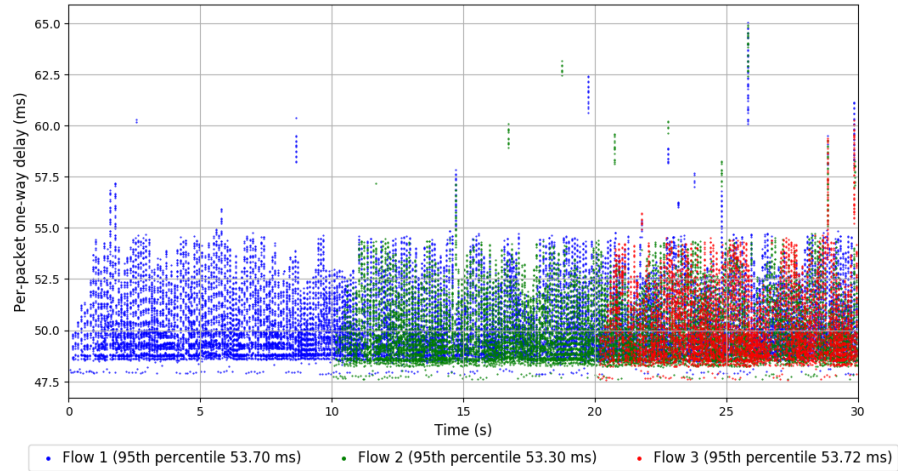
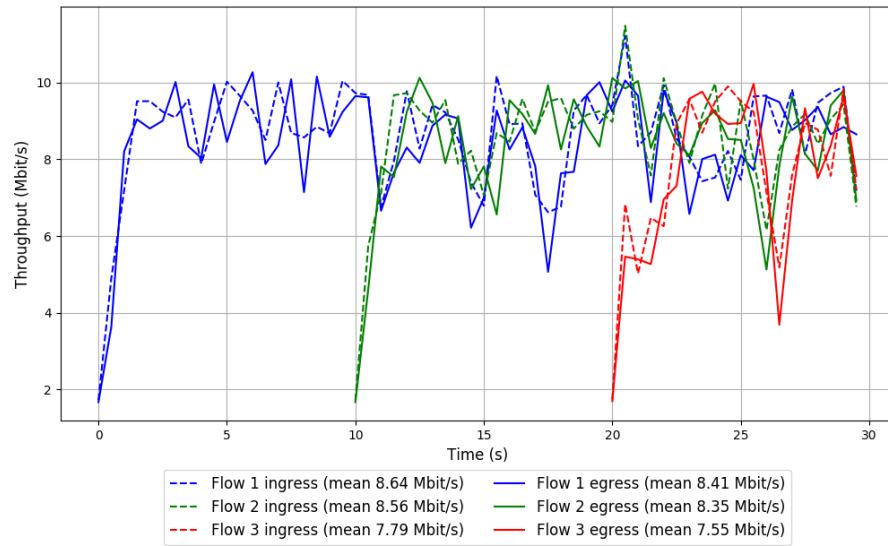


Run 7: Statistics of Sprout

Start at: 2017-09-18 23:16:55
End at: 2017-09-18 23:17:25
Local clock offset: -5.996 ms
Remote clock offset: -1.815 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 53.705 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 53.305 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 53.718 ms
Loss rate: 3.09%

Run 7: Report of Sprout — Data Link

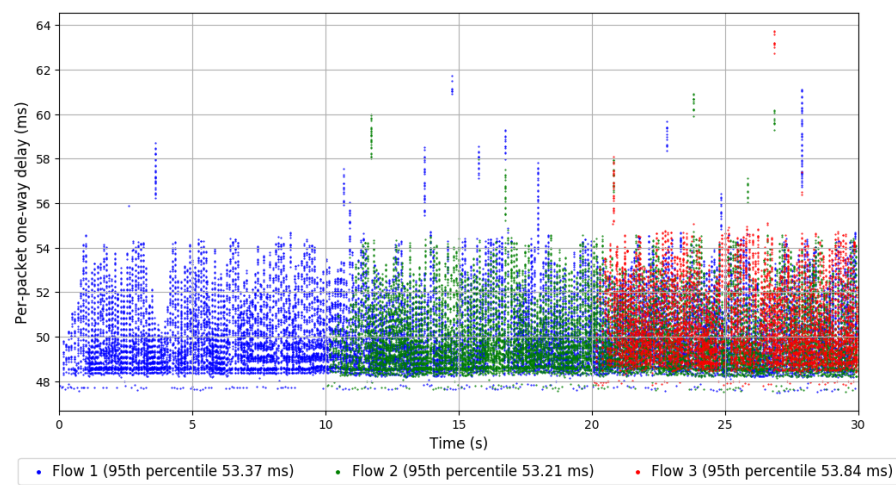
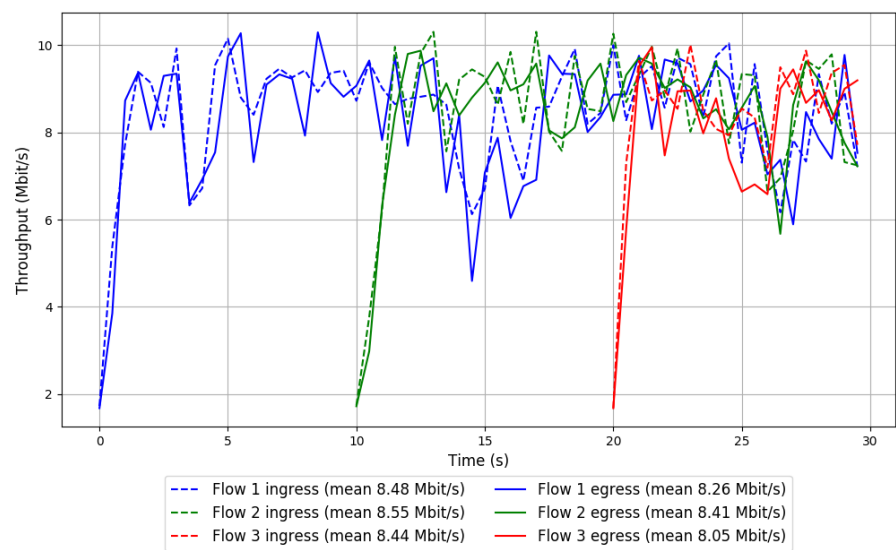


Run 8: Statistics of Sprout

Start at: 2017-09-18 23:29:26
End at: 2017-09-18 23:29:56
Local clock offset: -5.418 ms
Remote clock offset: -1.819 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 53.428 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 53.371 ms
Loss rate: 2.61%
-- Flow 2:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 53.214 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 53.840 ms
Loss rate: 4.63%

Run 8: Report of Sprout — Data Link

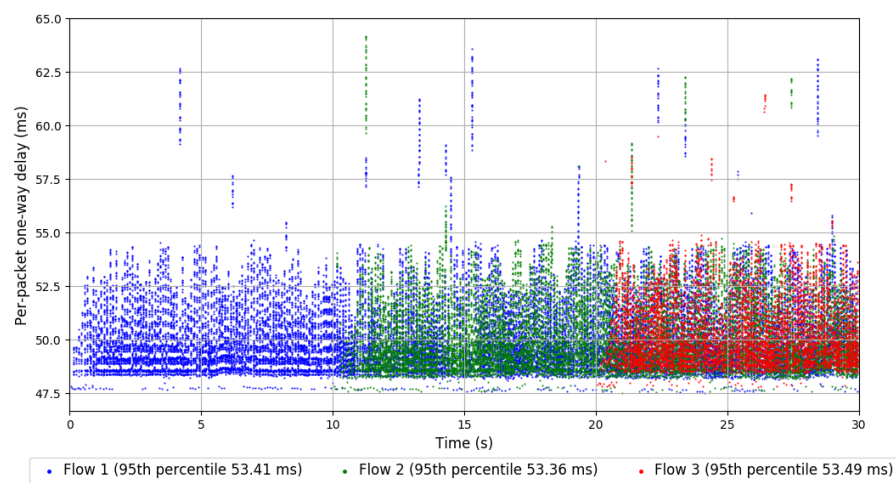
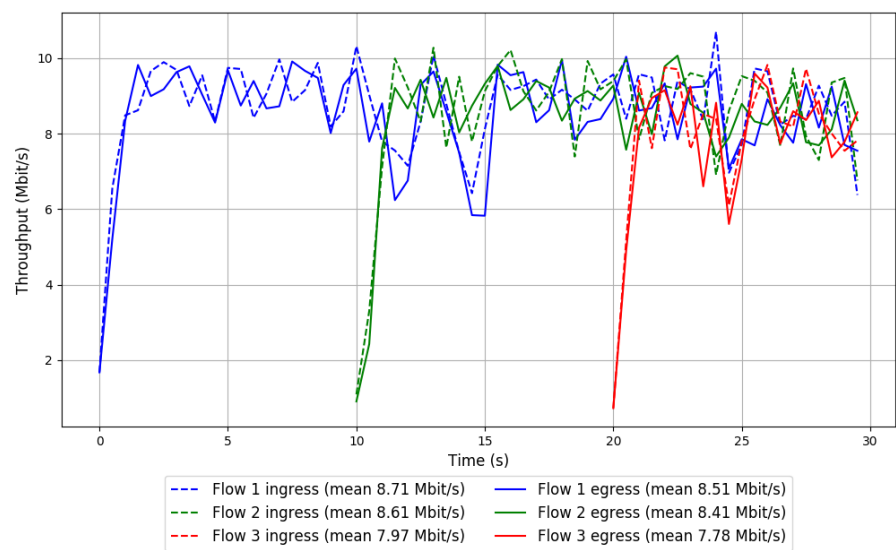


Run 9: Statistics of Sprout

Start at: 2017-09-18 23:42:10
End at: 2017-09-18 23:42:40
Local clock offset: -5.655 ms
Remote clock offset: -1.838 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.67 Mbit/s
95th percentile per-packet one-way delay: 53.407 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 53.413 ms
Loss rate: 2.24%
-- Flow 2:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 53.364 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 53.486 ms
Loss rate: 2.42%

Run 9: Report of Sprout — Data Link

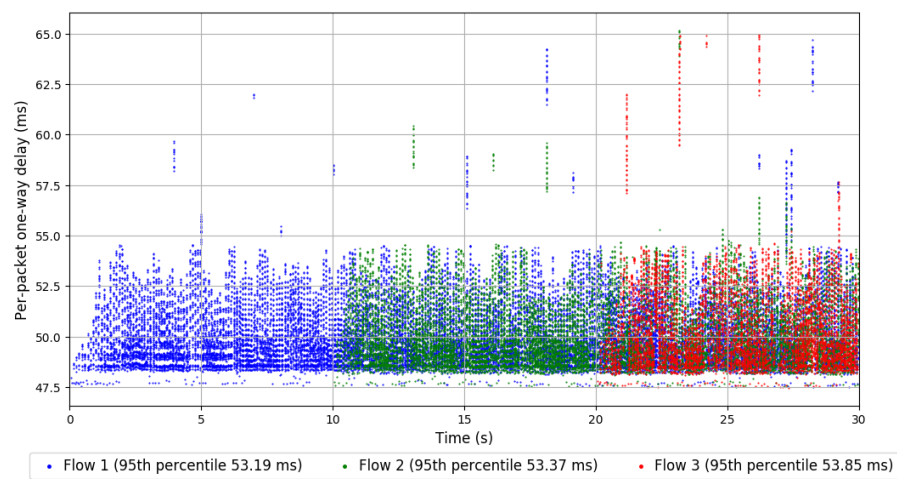
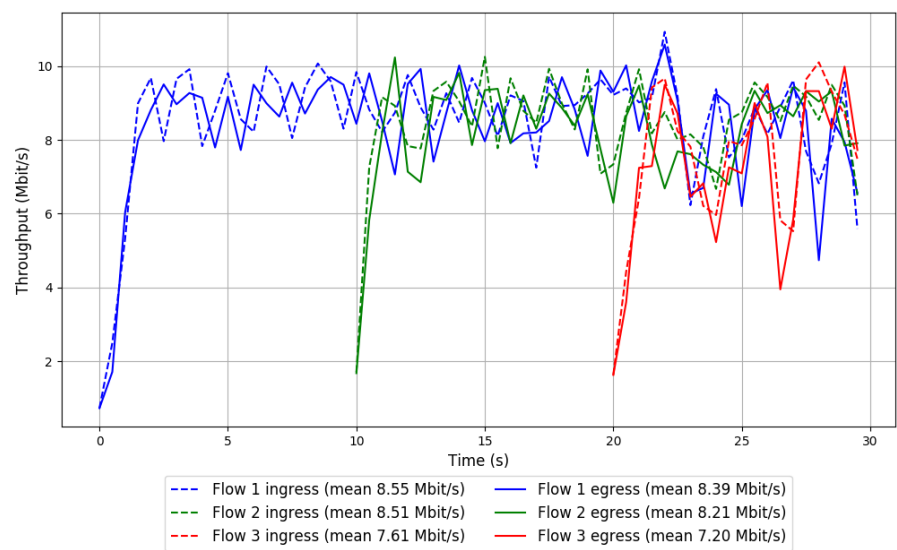


Run 10: Statistics of Sprout

Start at: 2017-09-18 23:54:53
End at: 2017-09-18 23:55:23
Local clock offset: -6.094 ms
Remote clock offset: -1.824 ms

Below is generated by plot.py at 2017-09-19 00:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.23 Mbit/s
95th percentile per-packet one-way delay: 53.376 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 53.191 ms
Loss rate: 1.89%
-- Flow 2:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 53.366 ms
Loss rate: 3.49%
-- Flow 3:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 53.848 ms
Loss rate: 5.29%

Run 10: Report of Sprout — Data Link

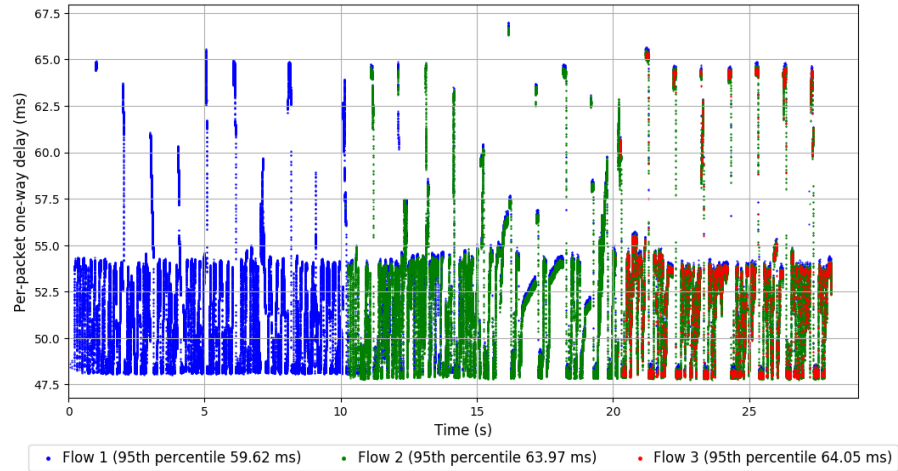
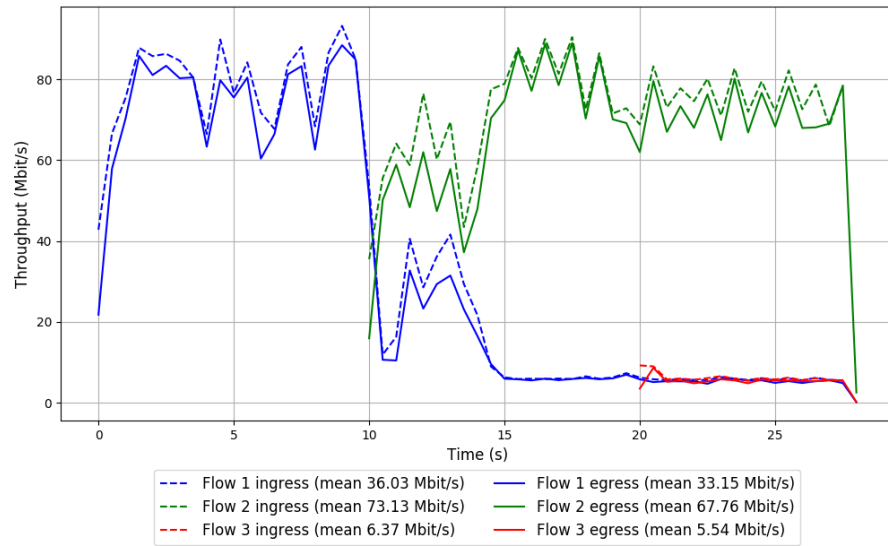


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 22:09:27
End at: 2017-09-18 22:09:57
Local clock offset: -5.849 ms
Remote clock offset: -1.327 ms

# Below is generated by plot.py at 2017-09-19 00:34:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.22 Mbit/s
95th percentile per-packet one-way delay: 62.677 ms
Loss rate: 7.73%
-- Flow 1:
Average throughput: 33.15 Mbit/s
95th percentile per-packet one-way delay: 59.622 ms
Loss rate: 7.98%
-- Flow 2:
Average throughput: 67.76 Mbit/s
95th percentile per-packet one-way delay: 63.967 ms
Loss rate: 7.34%
-- Flow 3:
Average throughput: 5.54 Mbit/s
95th percentile per-packet one-way delay: 64.045 ms
Loss rate: 12.93%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 22:22:00

End at: 2017-09-18 22:22:30

Local clock offset: -5.879 ms

Remote clock offset: -1.44 ms

Below is generated by plot.py at 2017-09-19 00:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 62.682 ms

Loss rate: 6.51%

-- Flow 1:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 61.093 ms

Loss rate: 5.93%

-- Flow 2:

Average throughput: 70.53 Mbit/s

95th percentile per-packet one-way delay: 63.177 ms

Loss rate: 6.28%

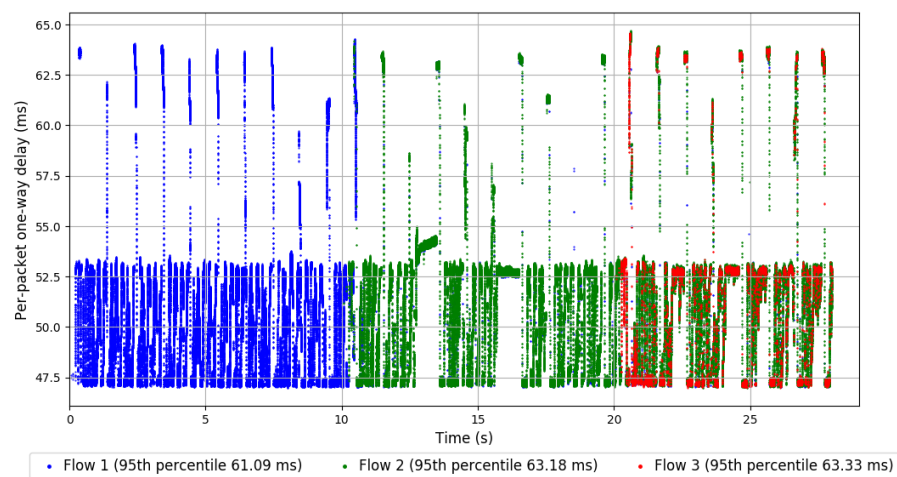
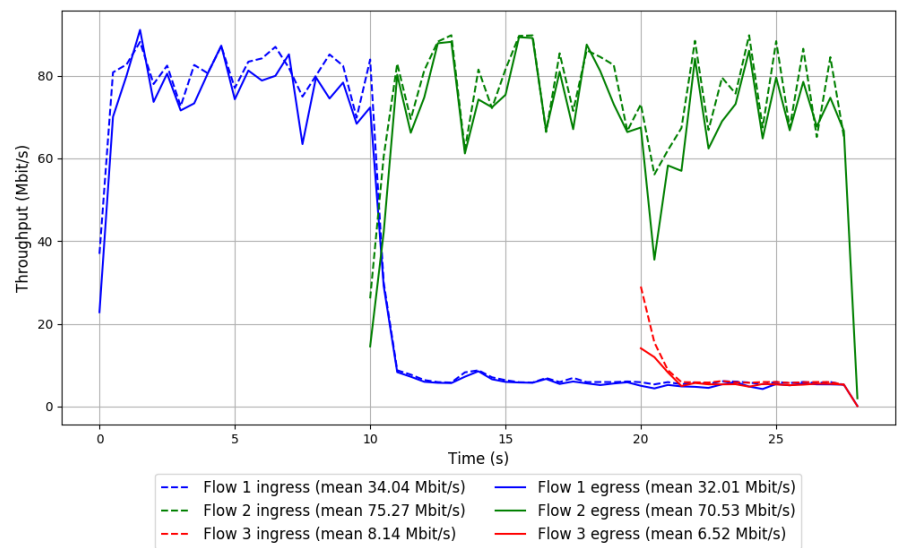
-- Flow 3:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 63.326 ms

Loss rate: 19.87%

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

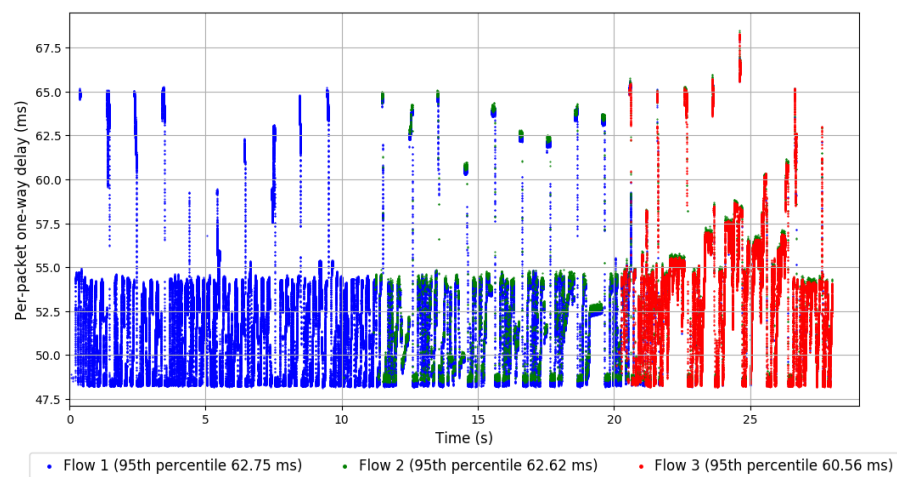
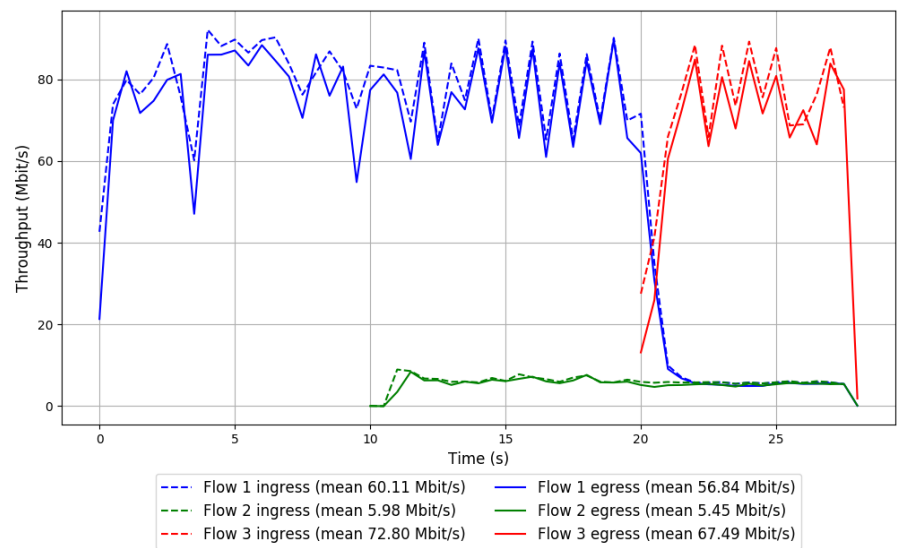


Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 22:34:23
End at: 2017-09-18 22:34:53
Local clock offset: -7.757 ms
Remote clock offset: -1.608 ms

Below is generated by plot.py at 2017-09-19 00:34:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.49 Mbit/s
95th percentile per-packet one-way delay: 62.450 ms
Loss rate: 6.02%
-- Flow 1:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 62.746 ms
Loss rate: 5.41%
-- Flow 2:
Average throughput: 5.45 Mbit/s
95th percentile per-packet one-way delay: 62.619 ms
Loss rate: 8.97%
-- Flow 3:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 60.559 ms
Loss rate: 7.25%

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

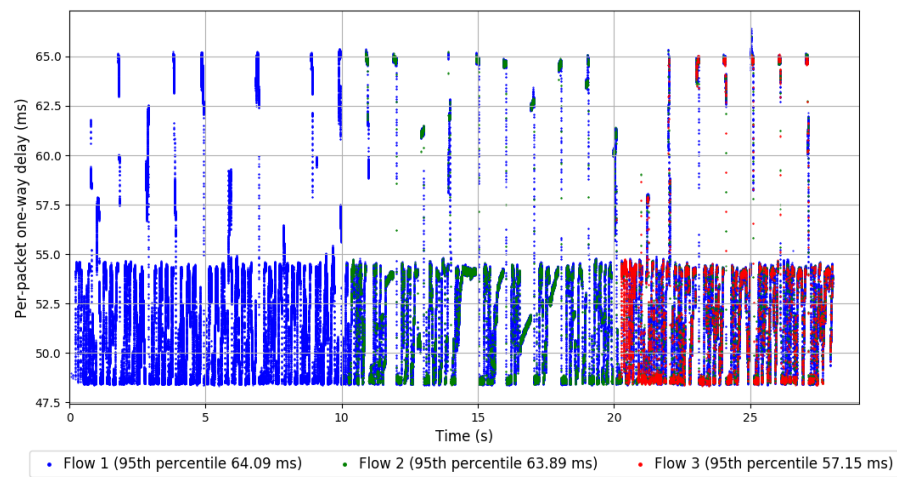
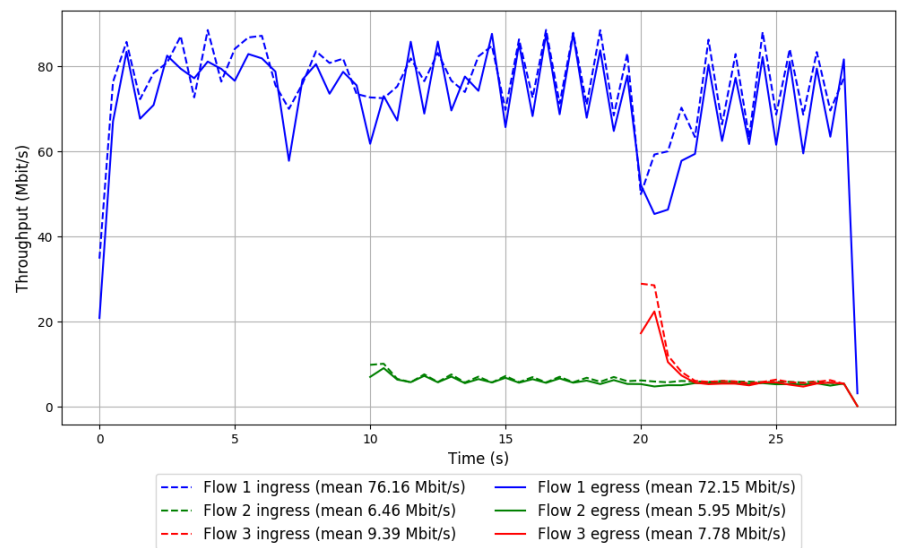


Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 22:46:48
End at: 2017-09-18 22:47:18
Local clock offset: -8.298 ms
Remote clock offset: -1.829 ms

Below is generated by plot.py at 2017-09-19 00:34:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.18 Mbit/s
95th percentile per-packet one-way delay: 64.047 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 64.095 ms
Loss rate: 5.25%
-- Flow 2:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 63.891 ms
Loss rate: 7.85%
-- Flow 3:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 57.148 ms
Loss rate: 17.19%

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

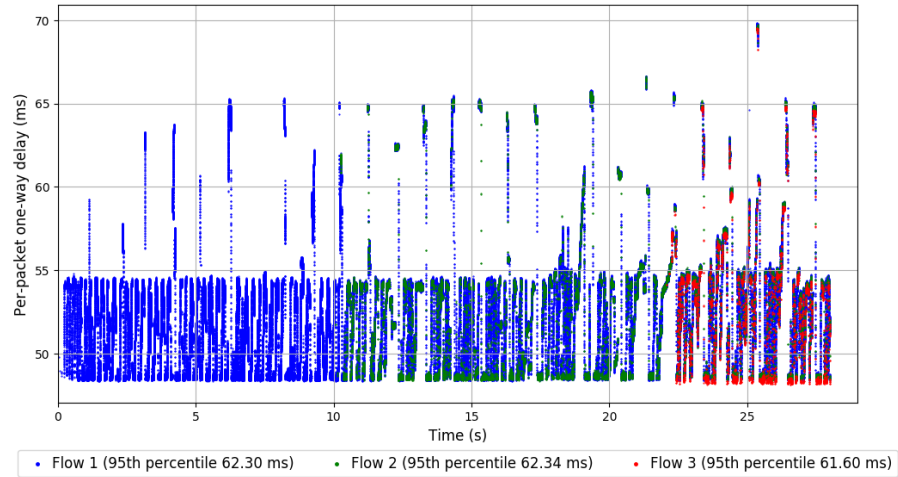
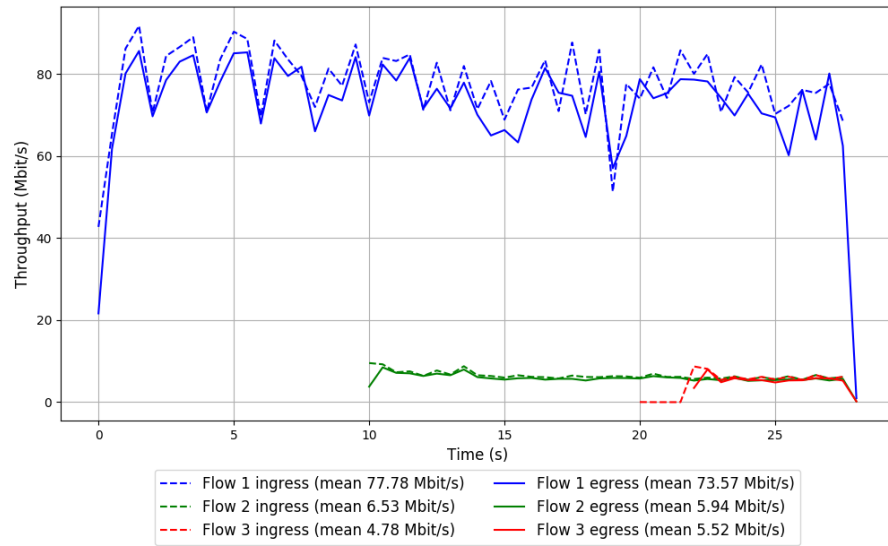


Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 22:59:22
End at: 2017-09-18 22:59:52
Local clock offset: -7.96 ms
Remote clock offset: -1.748 ms

Below is generated by plot.py at 2017-09-19 00:34:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.54 Mbit/s
95th percentile per-packet one-way delay: 62.302 ms
Loss rate: 5.74%
-- Flow 1:
Average throughput: 73.57 Mbit/s
95th percentile per-packet one-way delay: 62.304 ms
Loss rate: 5.42%
-- Flow 2:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 62.337 ms
Loss rate: 9.06%
-- Flow 3:
Average throughput: 5.52 Mbit/s
95th percentile per-packet one-way delay: 61.603 ms
Loss rate: 13.77%

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

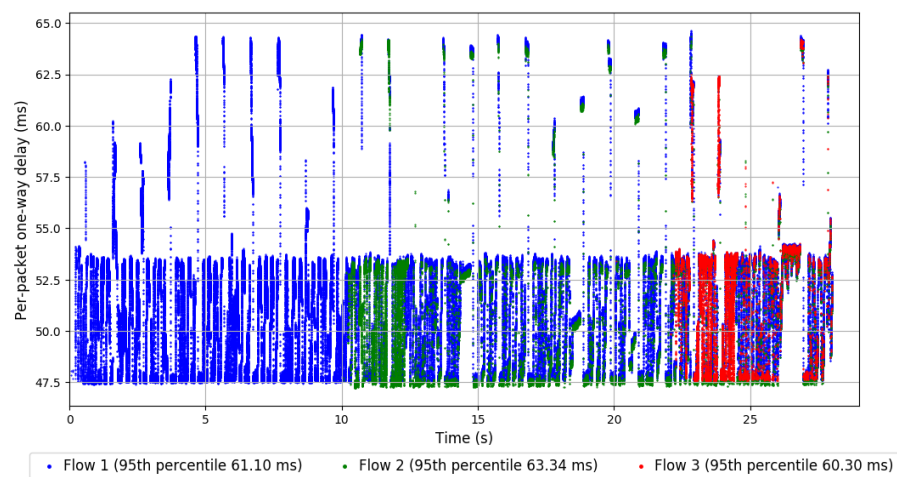
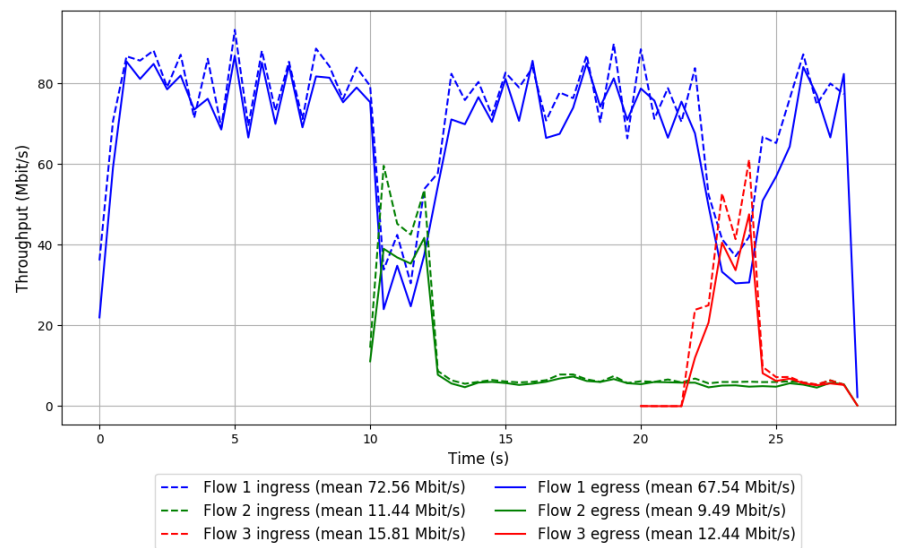


Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 23:11:54
End at: 2017-09-18 23:12:24
Local clock offset: -5.997 ms
Remote clock offset: -1.786 ms

Below is generated by plot.py at 2017-09-19 00:35:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 61.125 ms
Loss rate: 8.55%
-- Flow 1:
Average throughput: 67.54 Mbit/s
95th percentile per-packet one-way delay: 61.096 ms
Loss rate: 6.90%
-- Flow 2:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 63.343 ms
Loss rate: 17.00%
-- Flow 3:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 60.305 ms
Loss rate: 21.36%

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

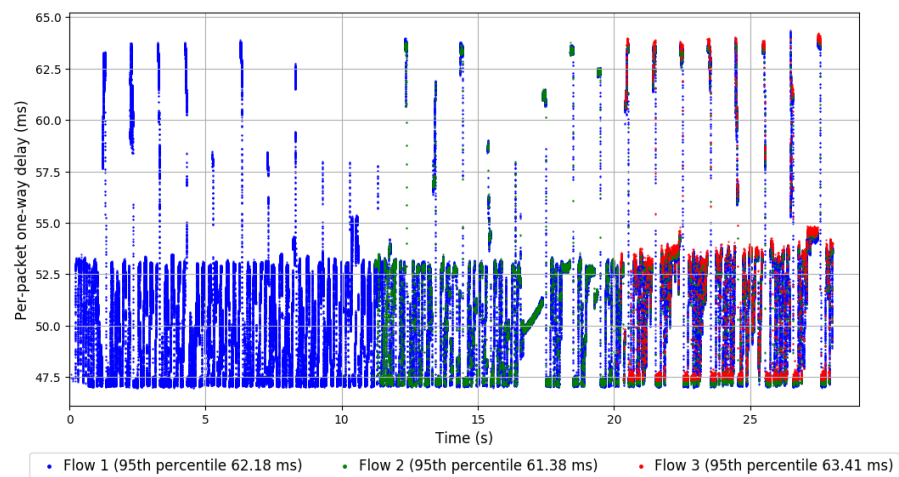
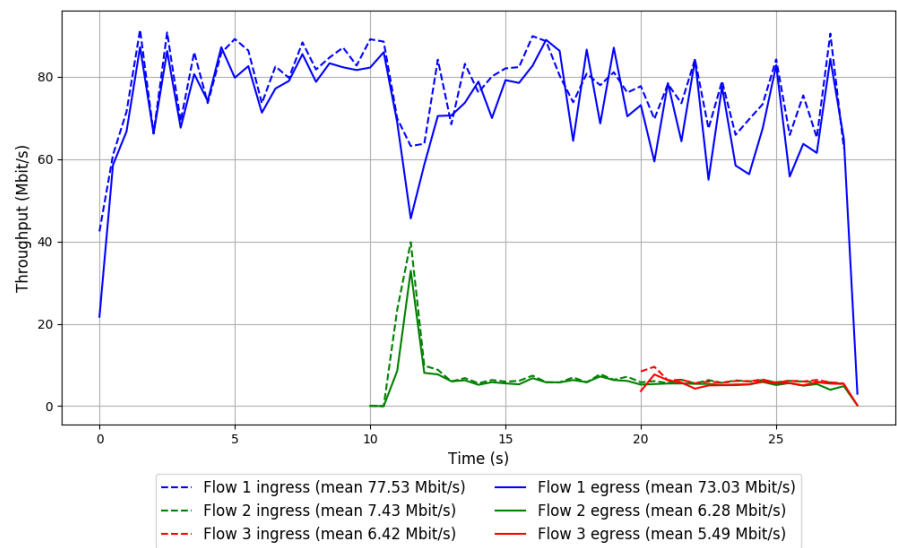


Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 23:24:19
End at: 2017-09-18 23:24:49
Local clock offset: -4.306 ms
Remote clock offset: -1.769 ms

Below is generated by plot.py at 2017-09-19 00:35:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 62.181 ms
Loss rate: 6.52%
-- Flow 1:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 62.177 ms
Loss rate: 5.78%
-- Flow 2:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 61.384 ms
Loss rate: 15.41%
-- Flow 3:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 63.407 ms
Loss rate: 14.49%

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

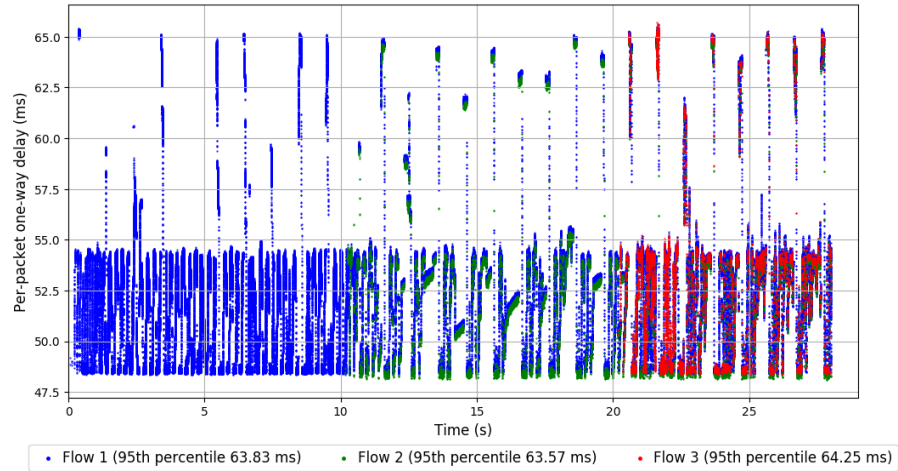
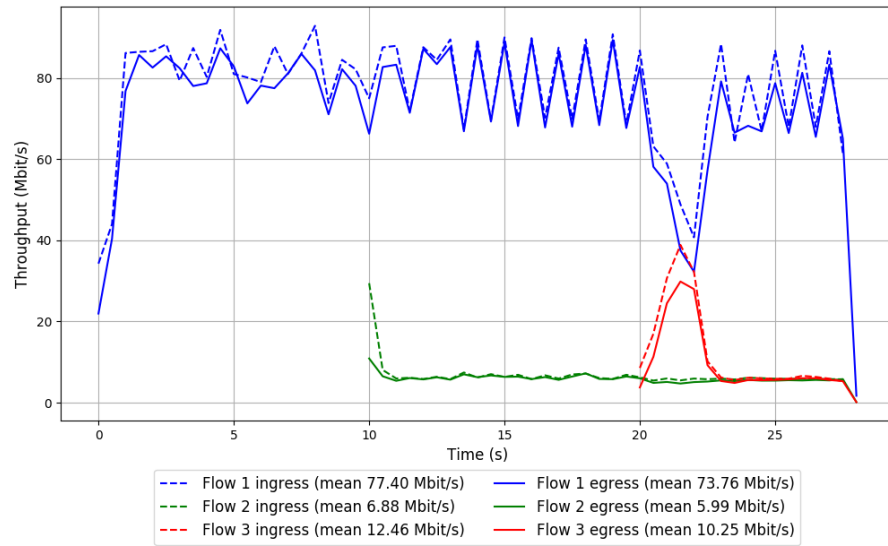


Run 8: Statistics of TaoVA-100x

Start at: 2017-09-18 23:36:57
End at: 2017-09-18 23:37:27
Local clock offset: -5.51 ms
Remote clock offset: -1.809 ms

Below is generated by plot.py at 2017-09-19 00:35:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 63.821 ms
Loss rate: 5.65%
-- Flow 1:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 4.69%
-- Flow 2:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 63.573 ms
Loss rate: 12.84%
-- Flow 3:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 64.249 ms
Loss rate: 17.72%

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

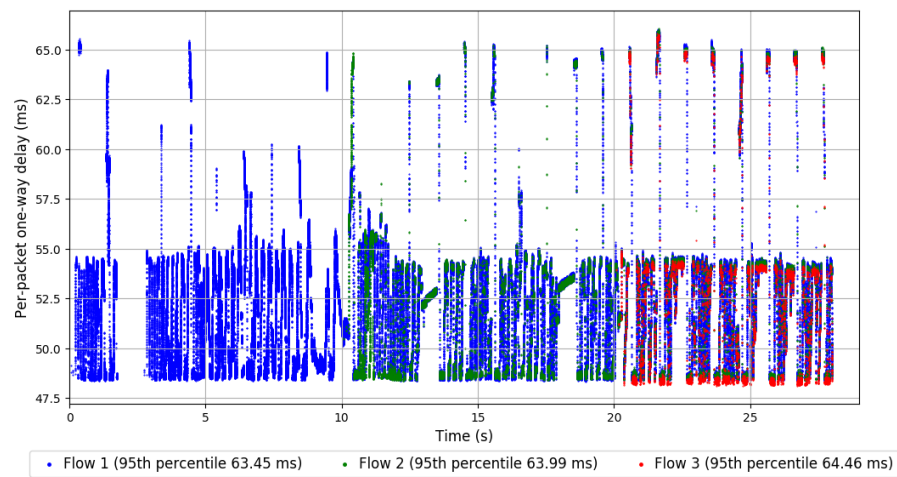
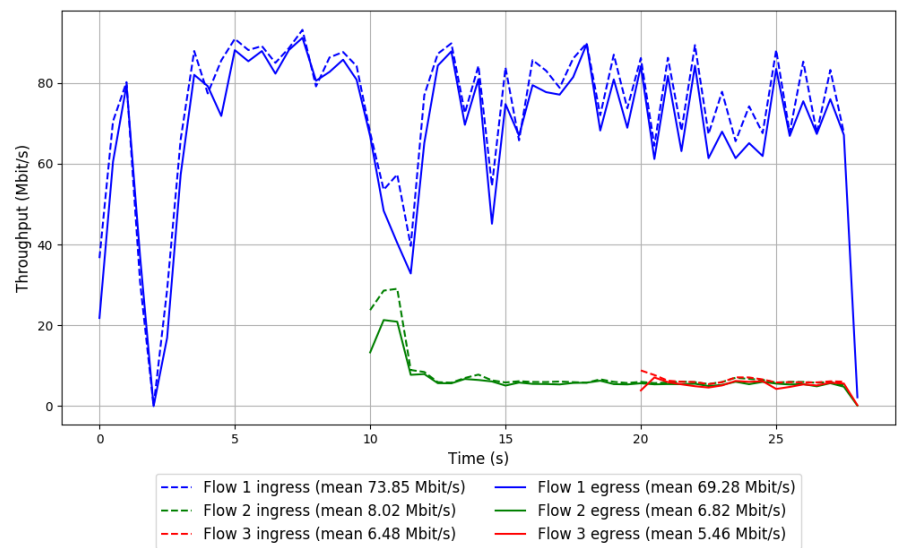


Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 23:49:36
End at: 2017-09-18 23:50:06
Local clock offset: -5.904 ms
Remote clock offset: -1.792 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.20 Mbit/s
95th percentile per-packet one-way delay: 63.485 ms
Loss rate: 6.96%
-- Flow 1:
Average throughput: 69.28 Mbit/s
95th percentile per-packet one-way delay: 63.448 ms
Loss rate: 6.19%
-- Flow 2:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 63.994 ms
Loss rate: 14.94%
-- Flow 3:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 64.456 ms
Loss rate: 15.84%

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

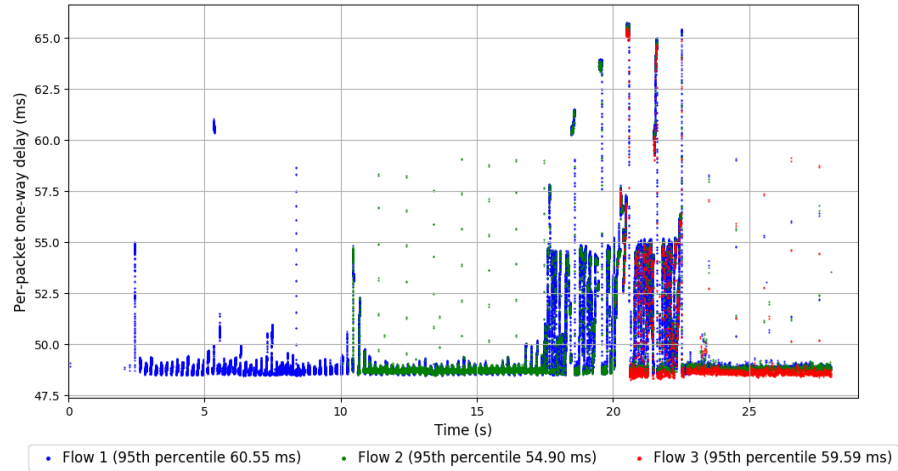
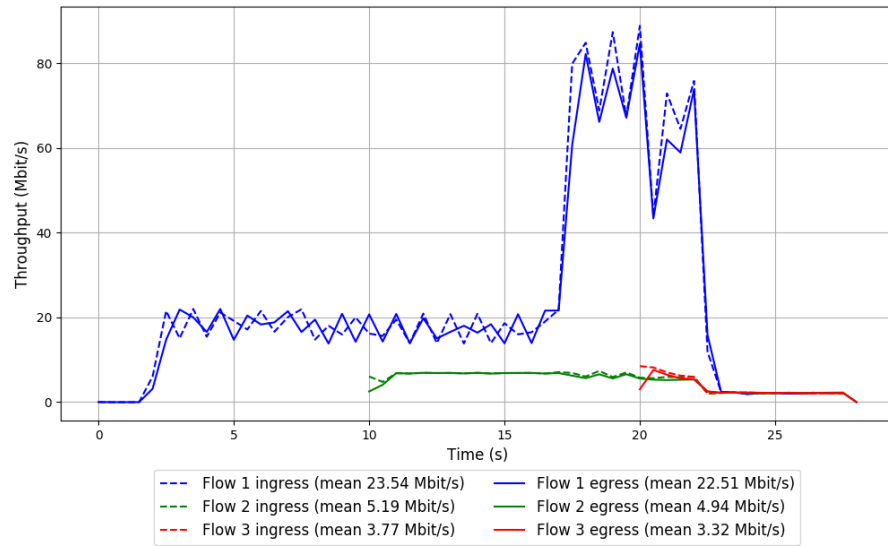


Run 10: Statistics of TaoVA-100x

Start at: 2017-09-19 00:02:21
End at: 2017-09-19 00:02:51
Local clock offset: -5.637 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.62 Mbit/s
95th percentile per-packet one-way delay: 60.474 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 60.549 ms
Loss rate: 4.36%
-- Flow 2:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 54.903 ms
Loss rate: 4.75%
-- Flow 3:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 59.595 ms
Loss rate: 11.81%

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

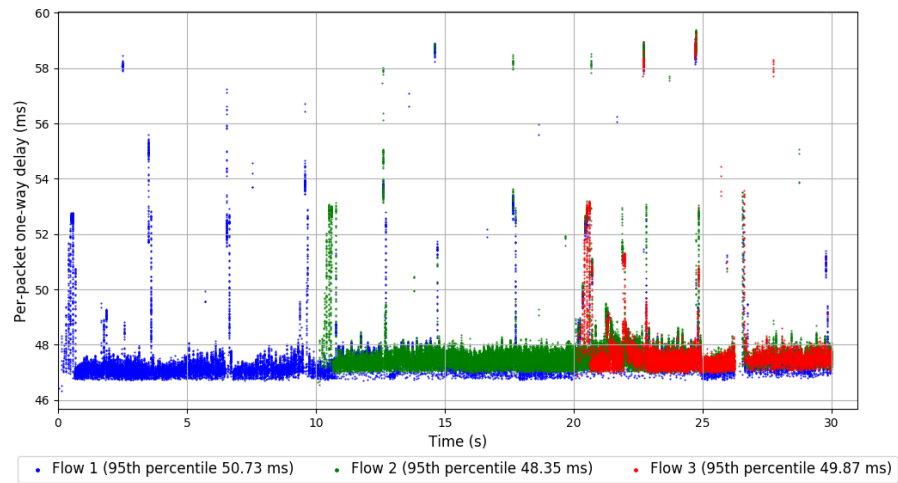
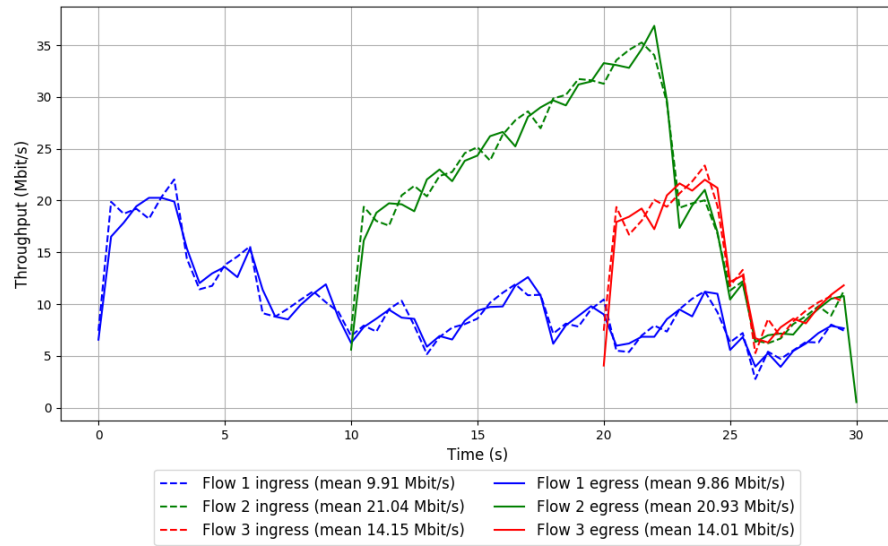


Run 1: Statistics of TCP Vegas

Start at: 2017-09-18 22:08:15
End at: 2017-09-18 22:08:45
Local clock offset: -4.613 ms
Remote clock offset: -1.237 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.43 Mbit/s
95th percentile per-packet one-way delay: 48.998 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 9.86 Mbit/s
95th percentile per-packet one-way delay: 50.727 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 20.93 Mbit/s
95th percentile per-packet one-way delay: 48.346 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 49.867 ms
Loss rate: 1.03%

Run 1: Report of TCP Vegas — Data Link

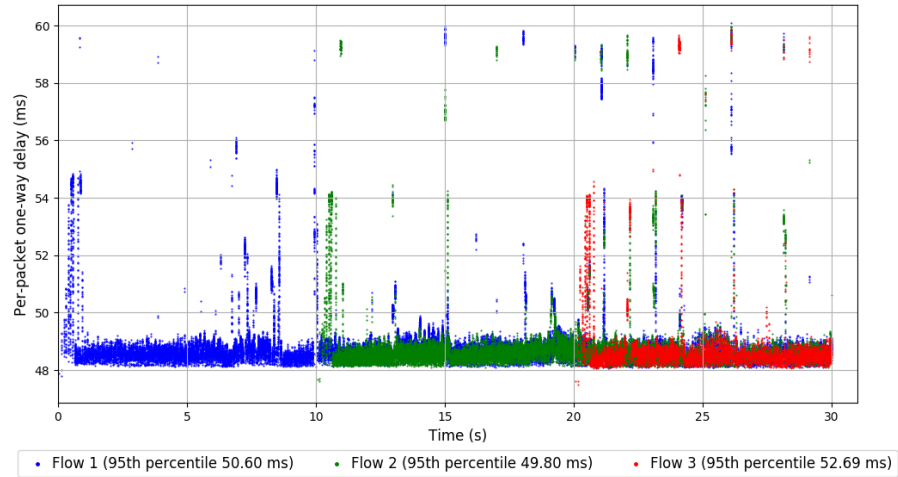
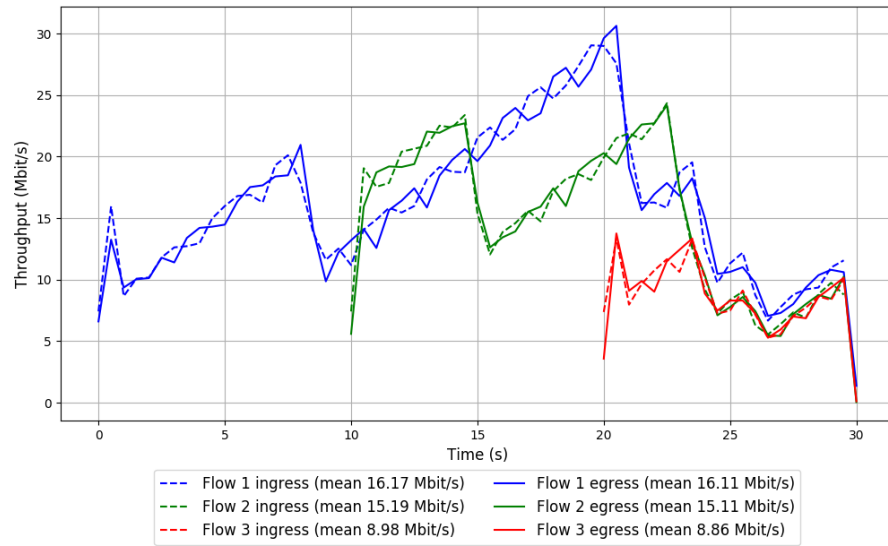


Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 22:20:48
End at: 2017-09-18 22:21:18
Local clock offset: -6.791 ms
Remote clock offset: -1.444 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 50.581 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 50.603 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 49.801 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 52.685 ms
Loss rate: 1.29%

Run 2: Report of TCP Vegas — Data Link

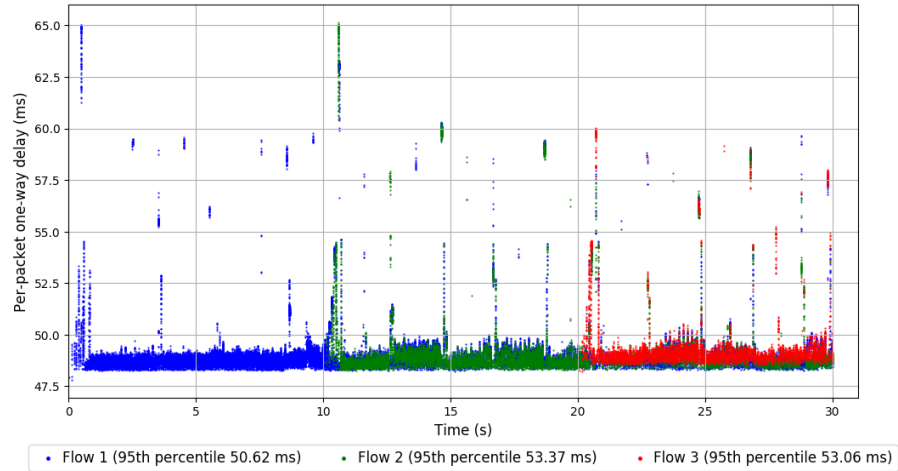
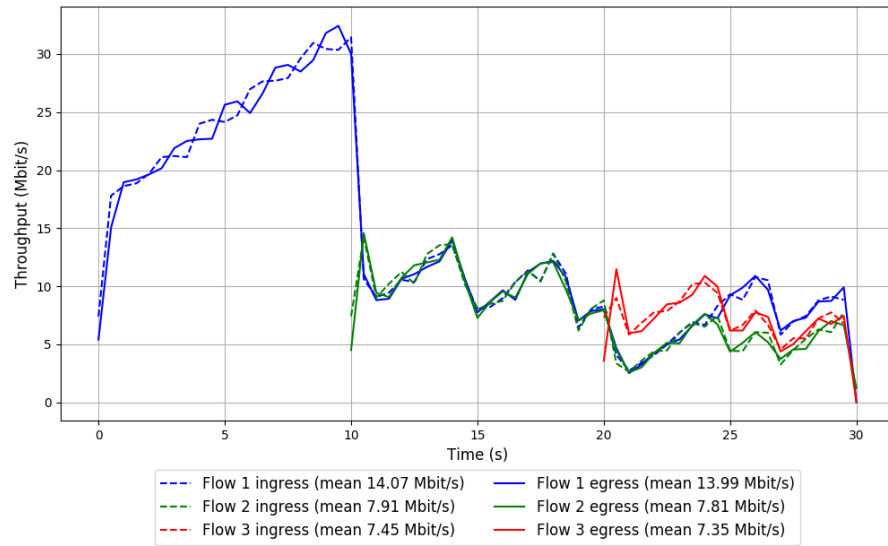


Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 22:33:11
End at: 2017-09-18 22:33:42
Local clock offset: -7.908 ms
Remote clock offset: -1.729 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.63 Mbit/s
95th percentile per-packet one-way delay: 51.484 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 50.617 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 53.368 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 53.062 ms
Loss rate: 1.34%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 22:45:36

End at: 2017-09-18 22:46:06

Local clock offset: -6.867 ms

Remote clock offset: -1.79 ms

Below is generated by plot.py at 2017-09-19 00:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 50.229 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 49.838 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 10.14 Mbit/s

95th percentile per-packet one-way delay: 51.284 ms

Loss rate: 0.88%

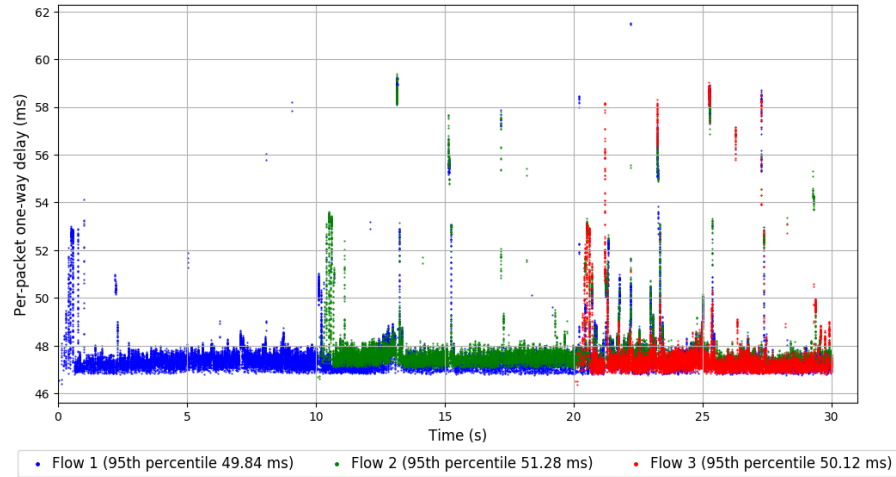
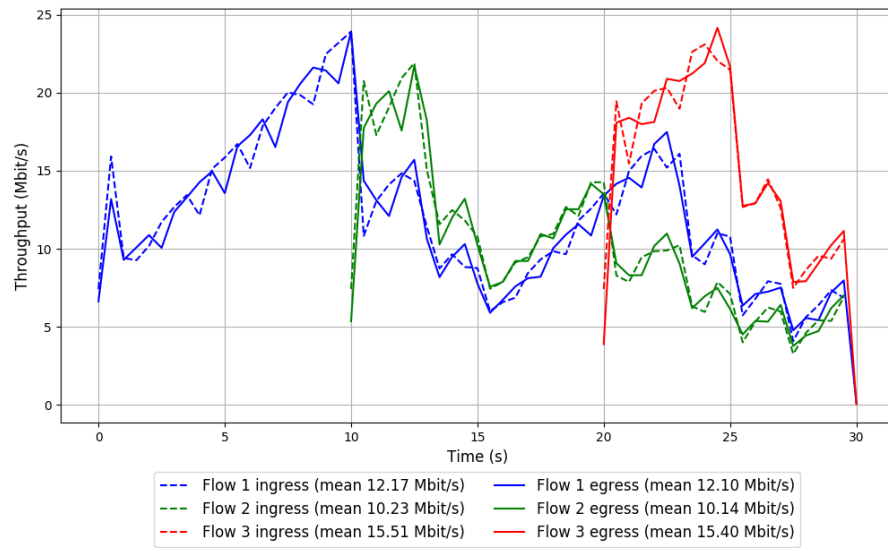
-- Flow 3:

Average throughput: 15.40 Mbit/s

95th percentile per-packet one-way delay: 50.124 ms

Loss rate: 0.75%

Run 4: Report of TCP Vegas — Data Link

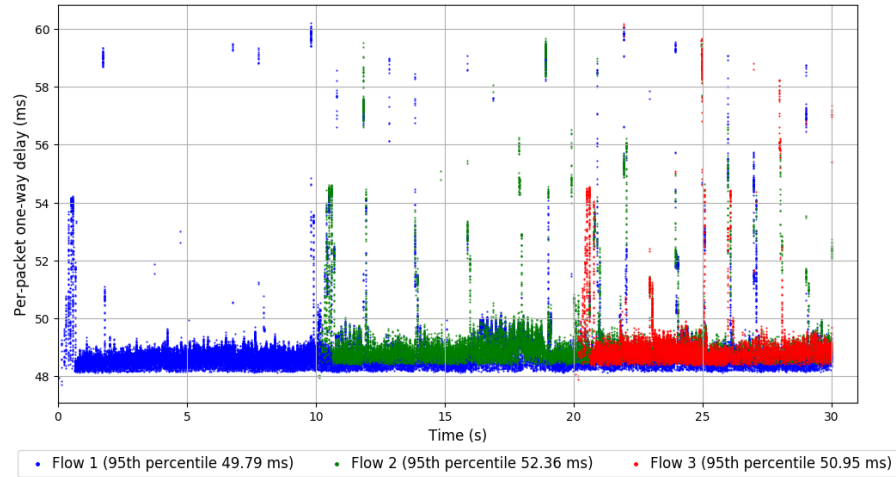
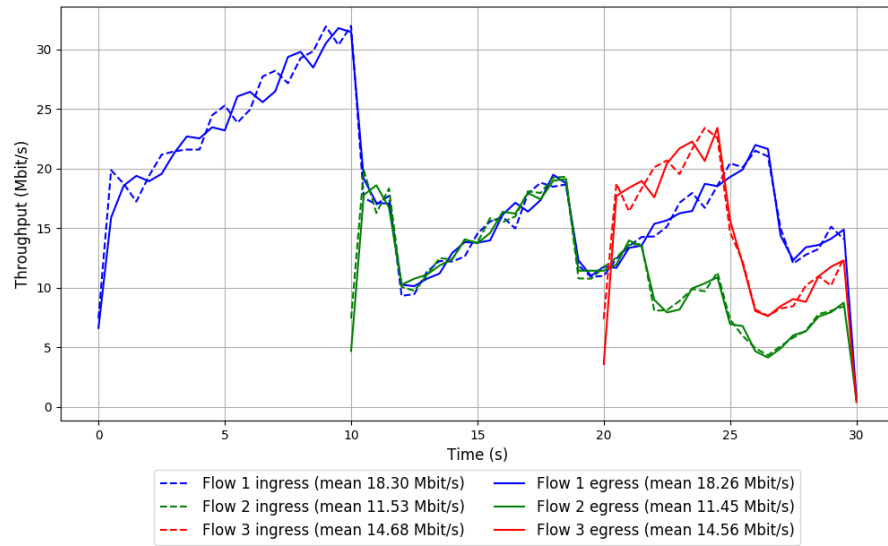


Run 5: Statistics of TCP Vegas

Start at: 2017-09-18 22:58:10
End at: 2017-09-18 22:58:40
Local clock offset: -8.036 ms
Remote clock offset: -1.783 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 50.505 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 18.26 Mbit/s
95th percentile per-packet one-way delay: 49.789 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 52.362 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 14.56 Mbit/s
95th percentile per-packet one-way delay: 50.949 ms
Loss rate: 0.81%

Run 5: Report of TCP Vegas — Data Link

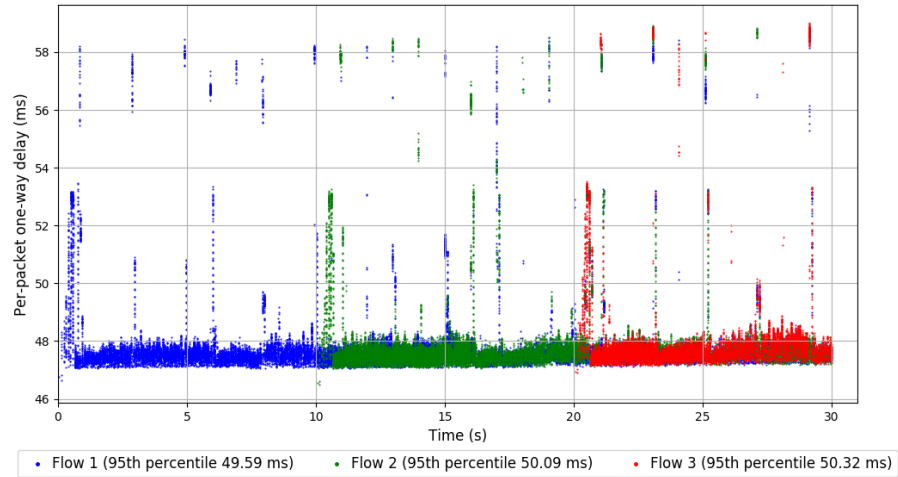
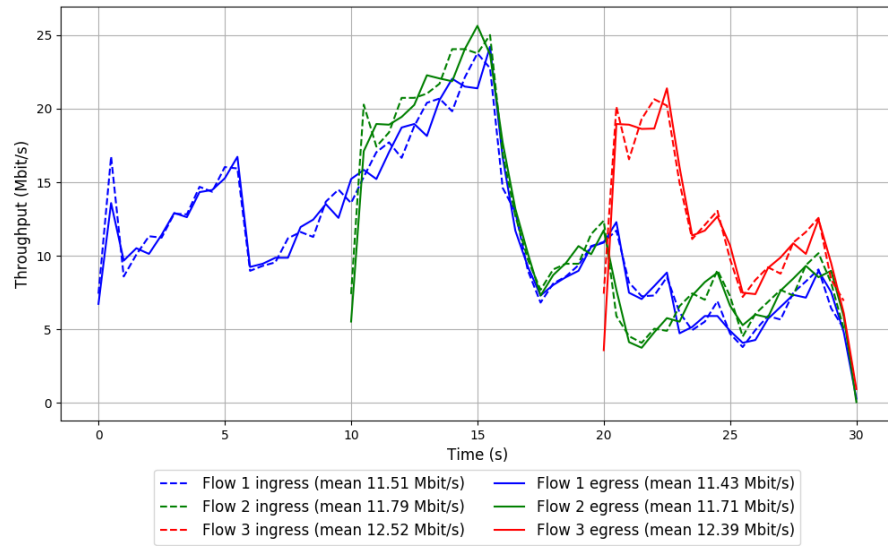


Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 23:10:42
End at: 2017-09-18 23:11:12
Local clock offset: -6.263 ms
Remote clock offset: -1.784 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 49.894 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 49.591 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 50.095 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 50.320 ms
Loss rate: 1.08%

Run 6: Report of TCP Vegas — Data Link

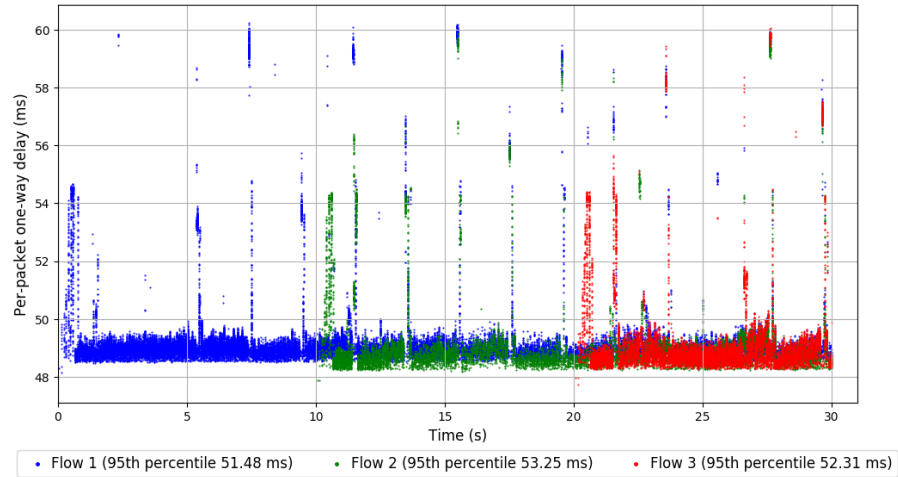
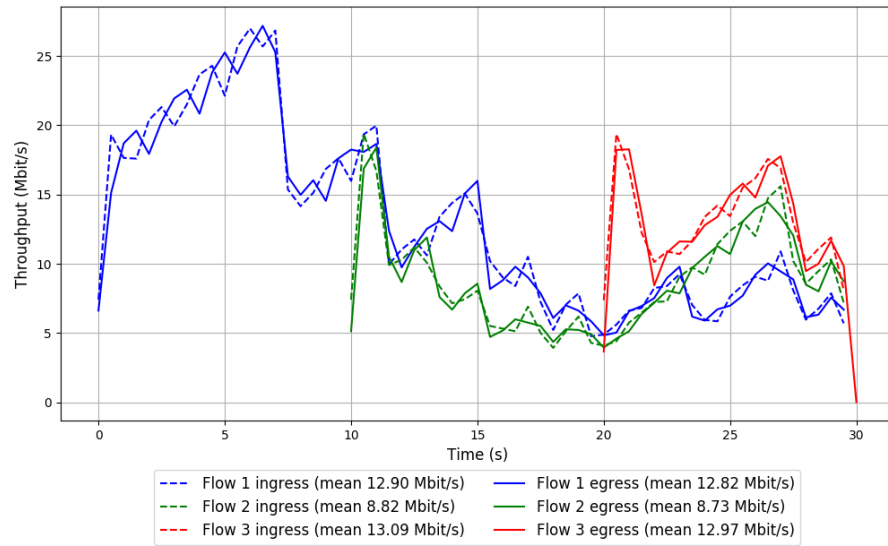


Run 7: Statistics of TCP Vegas

Start at: 2017-09-18 23:23:07
End at: 2017-09-18 23:23:37
Local clock offset: -5.528 ms
Remote clock offset: -1.819 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 52.282 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 51.481 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 53.246 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 52.310 ms
Loss rate: 0.92%

Run 7: Report of TCP Vegas — Data Link

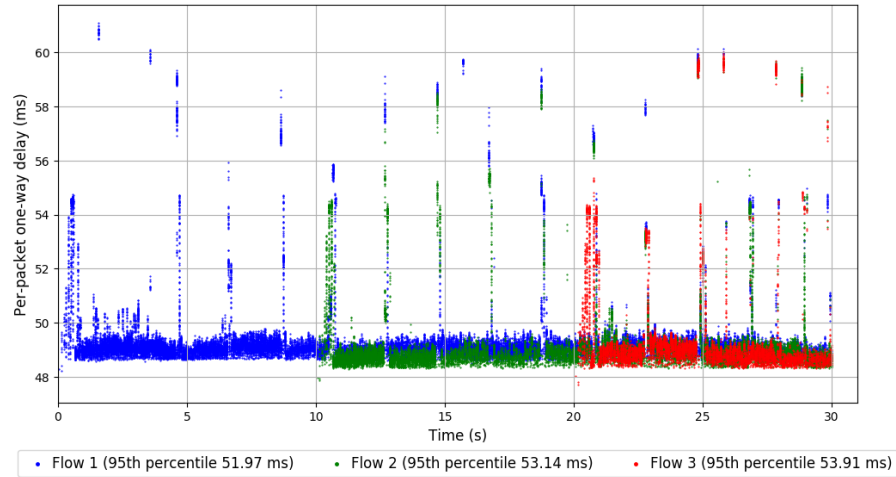
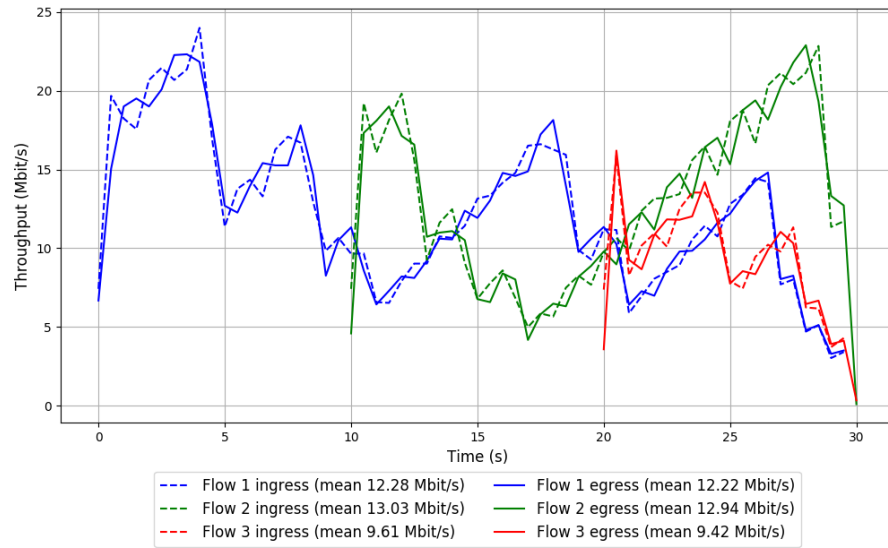


Run 8: Statistics of TCP Vegas

Start at: 2017-09-18 23:35:40
End at: 2017-09-18 23:36:10
Local clock offset: -5.582 ms
Remote clock offset: -1.747 ms

```
# Below is generated by plot.py at 2017-09-19 00:36:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 52.964 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 51.967 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 53.139 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 1.95%
```

Run 8: Report of TCP Vegas — Data Link

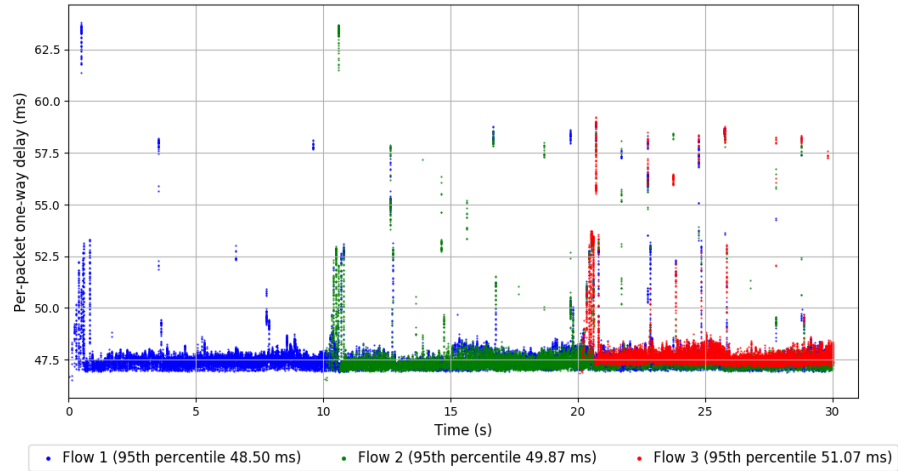
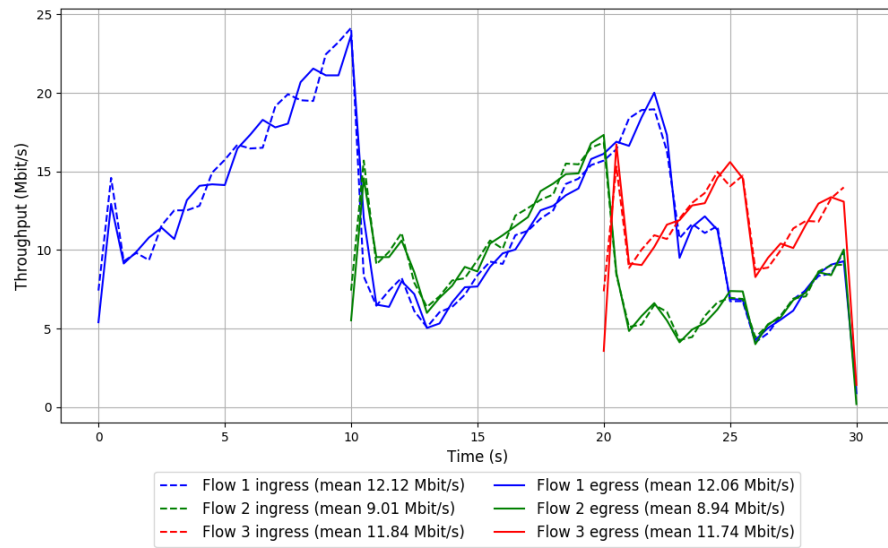


Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 23:48:24
End at: 2017-09-18 23:48:54
Local clock offset: -4.595 ms
Remote clock offset: -1.796 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 49.282 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 48.502 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 49.868 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 51.066 ms
Loss rate: 0.86%

Run 9: Report of TCP Vegas — Data Link

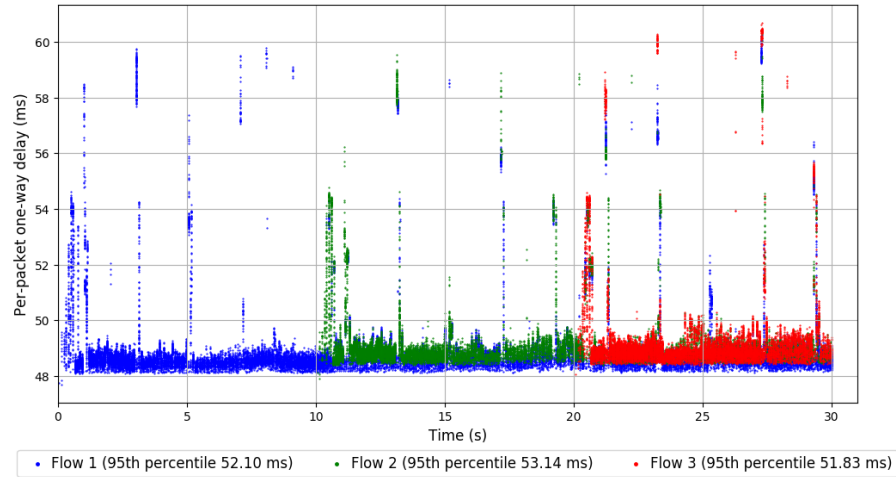
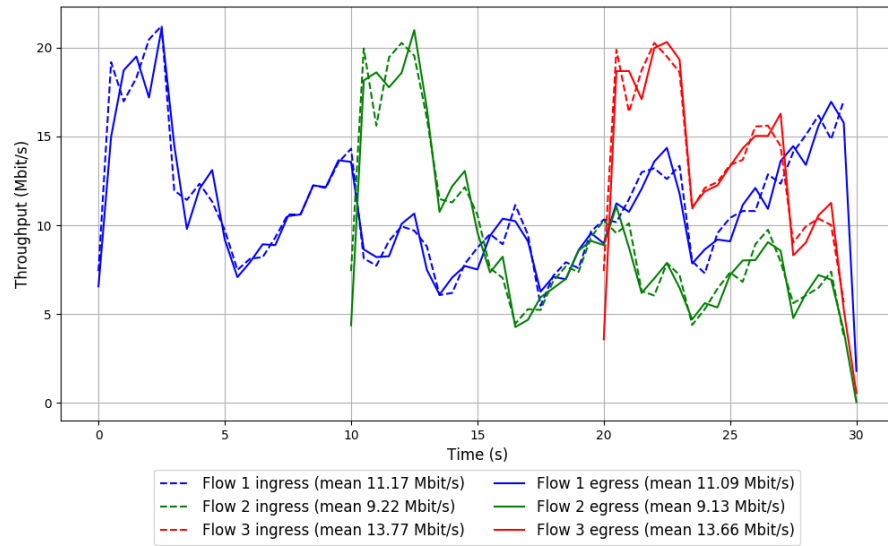


Run 10: Statistics of TCP Vegas

Start at: 2017-09-19 00:01:05
End at: 2017-09-19 00:01:35
Local clock offset: -5.735 ms
Remote clock offset: -1.855 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.70 Mbit/s
95th percentile per-packet one-way delay: 52.331 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 52.103 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 53.136 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 13.66 Mbit/s
95th percentile per-packet one-way delay: 51.832 ms
Loss rate: 0.80%

Run 10: Report of TCP Vegas — Data Link

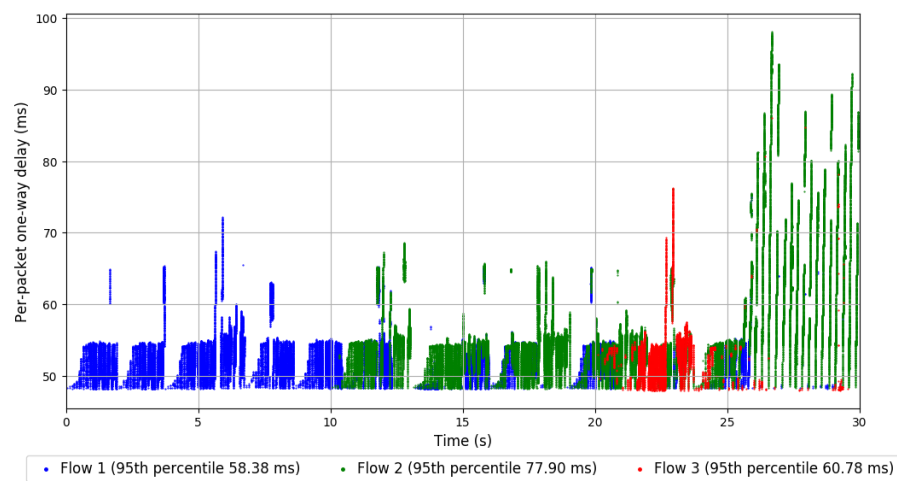
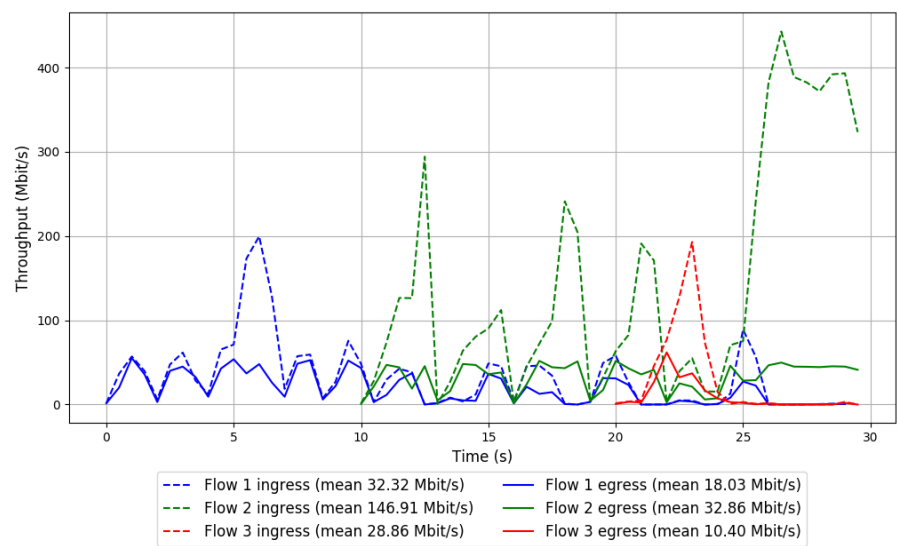


Run 1: Statistics of Verus

Start at: 2017-09-18 21:59:35
End at: 2017-09-18 22:00:05
Local clock offset: -6.0 ms
Remote clock offset: -1.012 ms

Below is generated by plot.py at 2017-09-19 00:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.81 Mbit/s
95th percentile per-packet one-way delay: 70.826 ms
Loss rate: 69.05%
-- Flow 1:
Average throughput: 18.03 Mbit/s
95th percentile per-packet one-way delay: 58.375 ms
Loss rate: 44.19%
-- Flow 2:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 77.900 ms
Loss rate: 77.59%
-- Flow 3:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 60.784 ms
Loss rate: 64.32%

Run 1: Report of Verus — Data Link

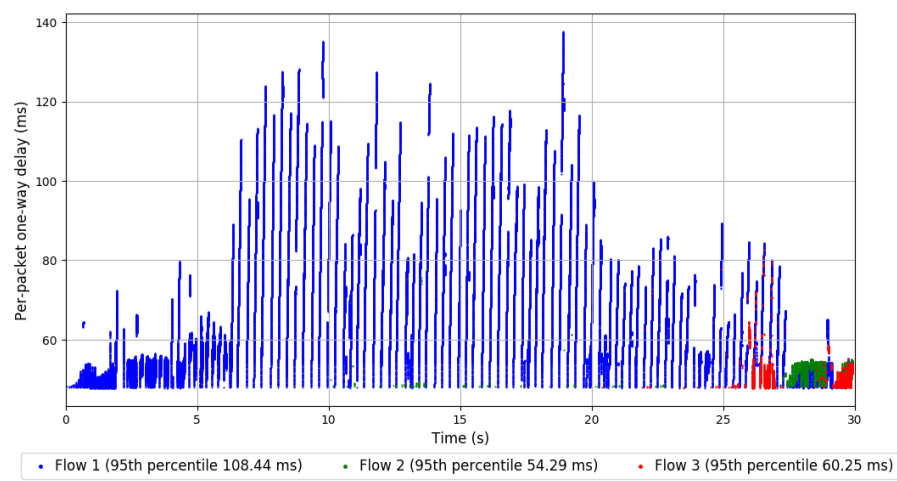
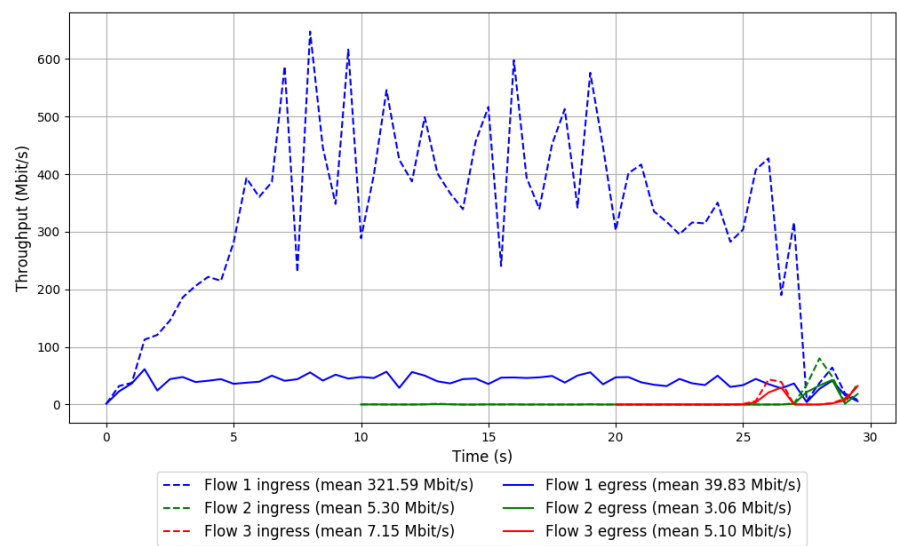


Run 2: Statistics of Verus

Start at: 2017-09-18 22:11:57
End at: 2017-09-18 22:12:27
Local clock offset: -5.998 ms
Remote clock offset: -1.395 ms

Below is generated by plot.py at 2017-09-19 00:37:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.48 Mbit/s
95th percentile per-packet one-way delay: 107.587 ms
Loss rate: 86.72%
-- Flow 1:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 108.439 ms
Loss rate: 87.61%
-- Flow 2:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 54.291 ms
Loss rate: 42.21%
-- Flow 3:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 60.254 ms
Loss rate: 28.65%

Run 2: Report of Verus — Data Link

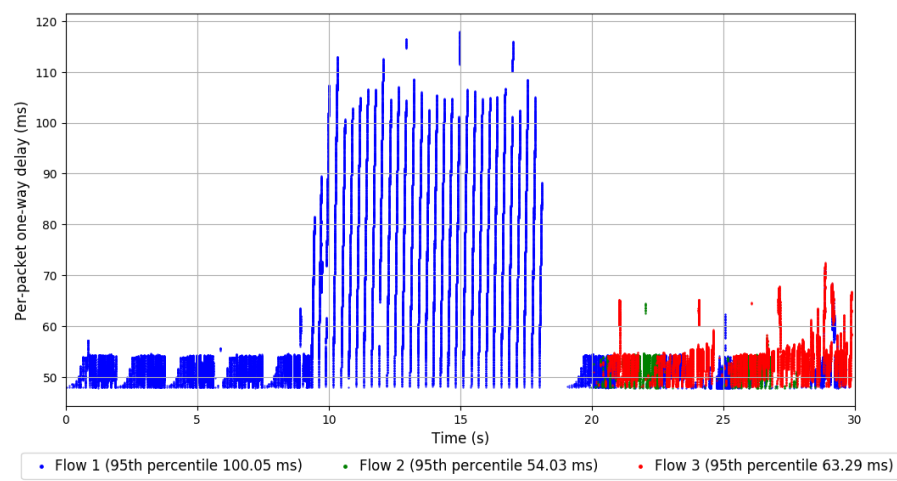
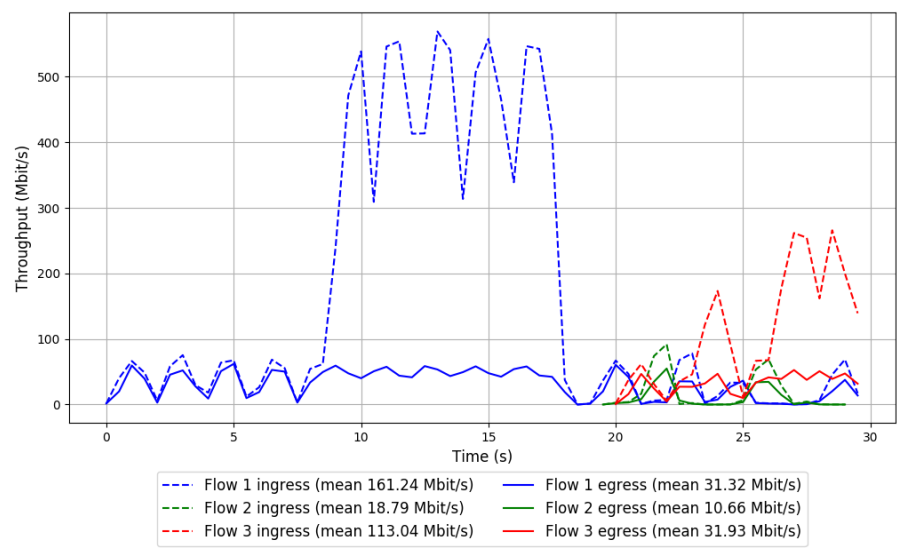


Run 3: Statistics of Verus

Start at: 2017-09-18 22:24:30
End at: 2017-09-18 22:25:00
Local clock offset: -7.246 ms
Remote clock offset: -1.472 ms

Below is generated by plot.py at 2017-09-19 00:37:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.08 Mbit/s
95th percentile per-packet one-way delay: 97.313 ms
Loss rate: 77.92%
-- Flow 1:
Average throughput: 31.32 Mbit/s
95th percentile per-packet one-way delay: 100.047 ms
Loss rate: 80.63%
-- Flow 2:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 54.027 ms
Loss rate: 43.32%
-- Flow 3:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 63.287 ms
Loss rate: 71.73%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-18 22:36:53

End at: 2017-09-18 22:37:23

Local clock offset: -6.789 ms

Remote clock offset: -1.74 ms

Below is generated by plot.py at 2017-09-19 00:37:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 161.202 ms

Loss rate: 81.61%

-- Flow 1:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 161.280 ms

Loss rate: 72.95%

-- Flow 2:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 160.787 ms

Loss rate: 86.54%

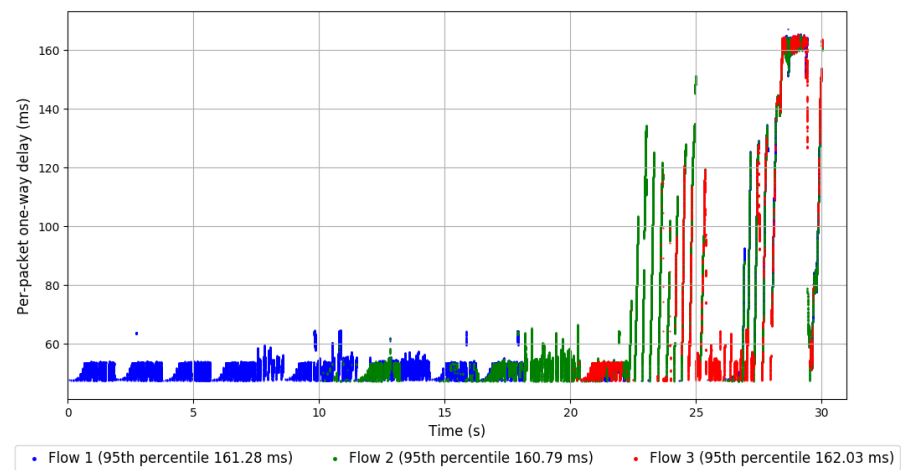
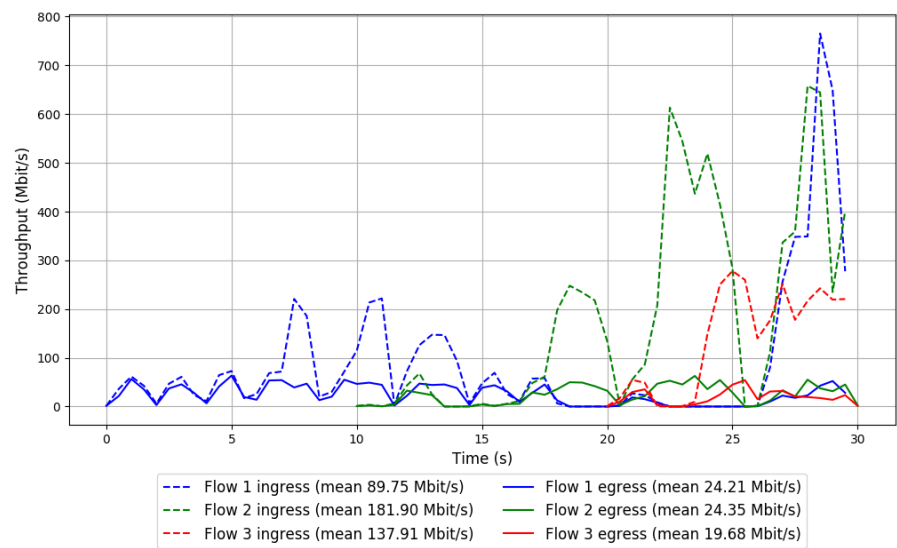
-- Flow 3:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 162.027 ms

Loss rate: 85.57%

Run 4: Report of Verus — Data Link

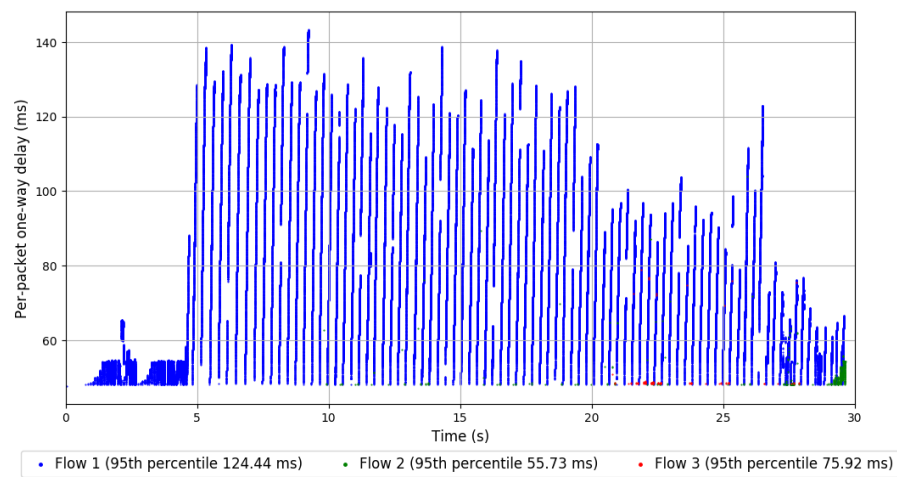
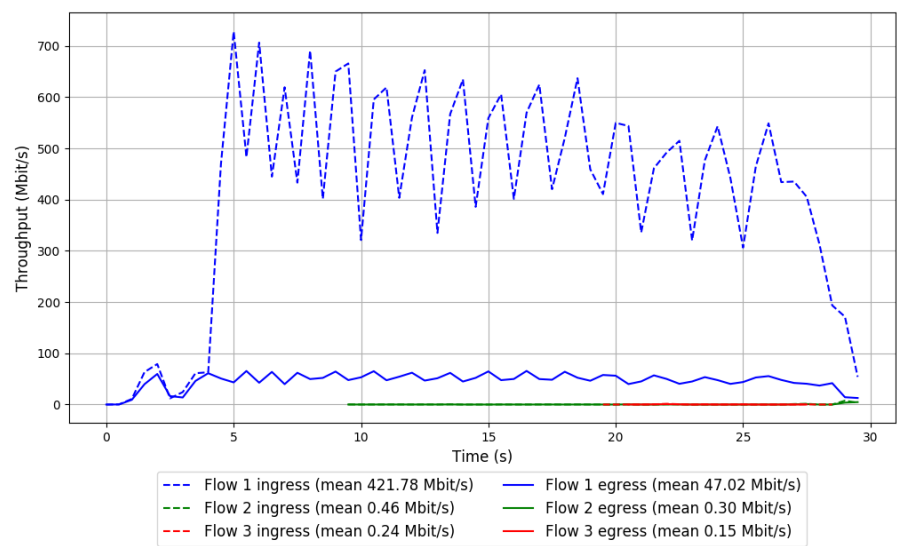


Run 5: Statistics of Verus

Start at: 2017-09-18 22:49:18
End at: 2017-09-18 22:49:48
Local clock offset: -8.446 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2017-09-19 00:37:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.17 Mbit/s
95th percentile per-packet one-way delay: 124.412 ms
Loss rate: 88.80%
-- Flow 1:
Average throughput: 47.02 Mbit/s
95th percentile per-packet one-way delay: 124.445 ms
Loss rate: 88.85%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 55.734 ms
Loss rate: 33.46%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 75.917 ms
Loss rate: 50.83%

Run 5: Report of Verus — Data Link

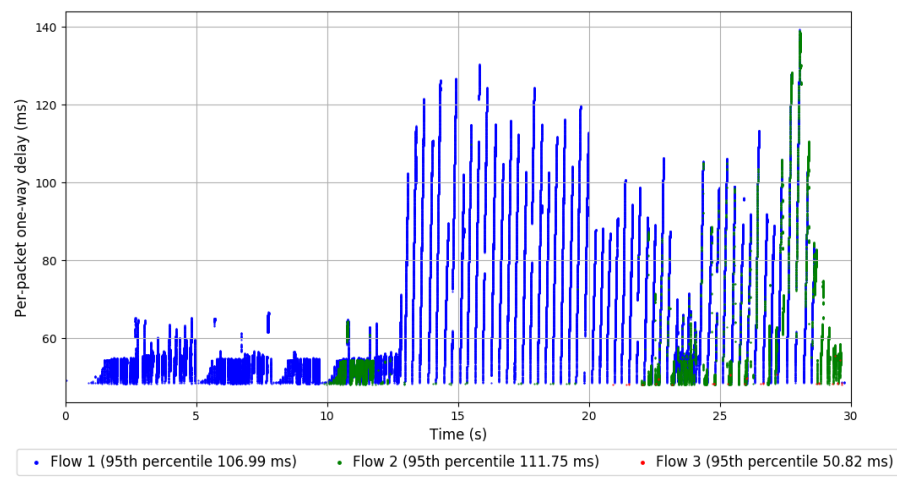
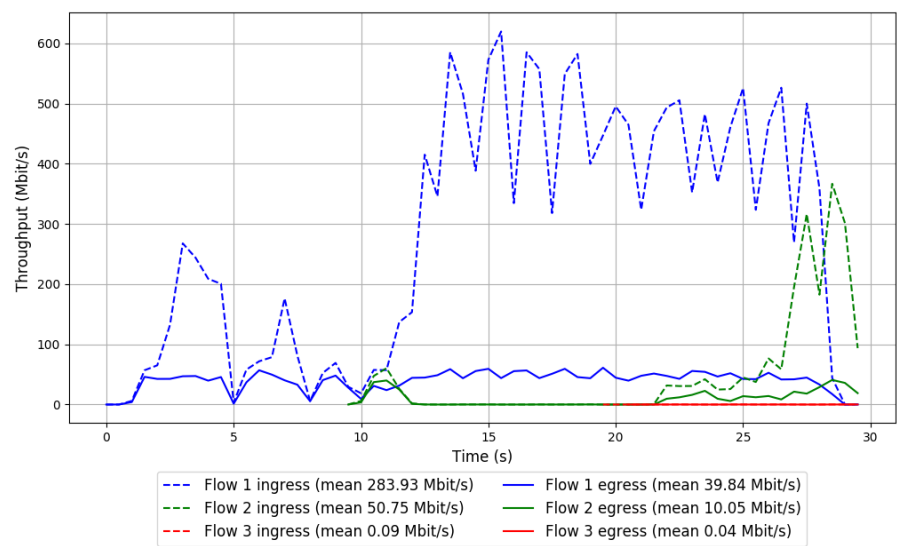


Run 6: Statistics of Verus

Start at: 2017-09-18 23:01:52
End at: 2017-09-18 23:02:22
Local clock offset: -7.865 ms
Remote clock offset: -1.713 ms

Below is generated by plot.py at 2017-09-19 00:37:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.53 Mbit/s
95th percentile per-packet one-way delay: 107.321 ms
Loss rate: 85.35%
-- Flow 1:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 106.988 ms
Loss rate: 85.97%
-- Flow 2:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 111.747 ms
Loss rate: 80.20%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 50.817 ms
Loss rate: 57.33%

Run 6: Report of Verus — Data Link

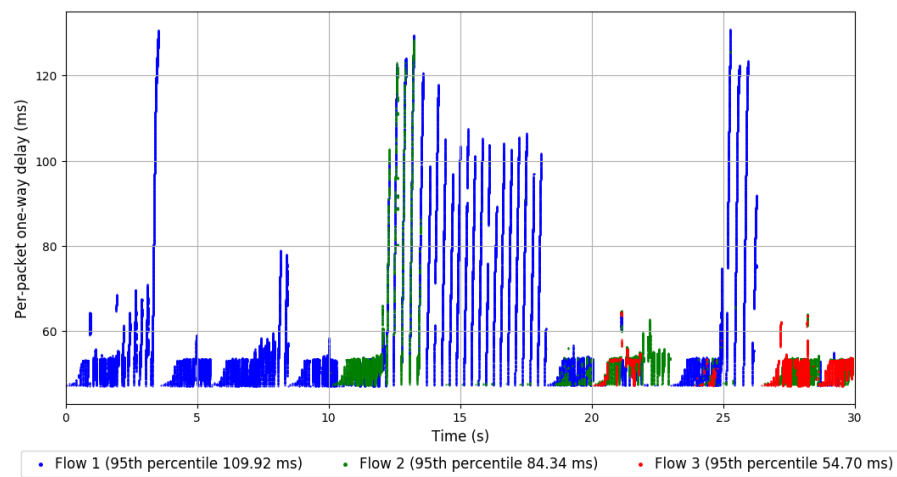
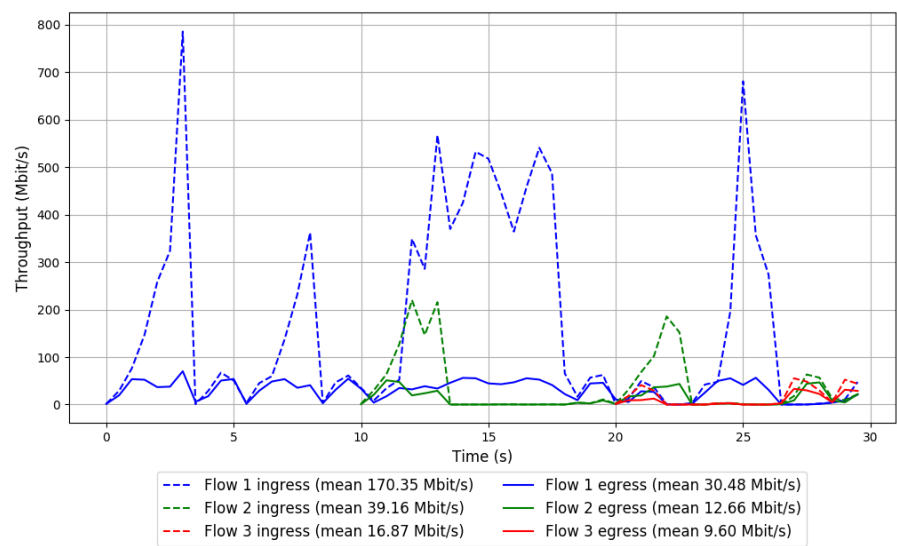


Run 7: Statistics of Verus

Start at: 2017-09-18 23:14:24
End at: 2017-09-18 23:14:54
Local clock offset: -5.212 ms
Remote clock offset: -1.702 ms

Below is generated by plot.py at 2017-09-19 00:37:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 104.294 ms
Loss rate: 79.17%
-- Flow 1:
Average throughput: 30.48 Mbit/s
95th percentile per-packet one-way delay: 109.916 ms
Loss rate: 82.11%
-- Flow 2:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 84.340 ms
Loss rate: 67.65%
-- Flow 3:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 54.700 ms
Loss rate: 43.04%

Run 7: Report of Verus — Data Link

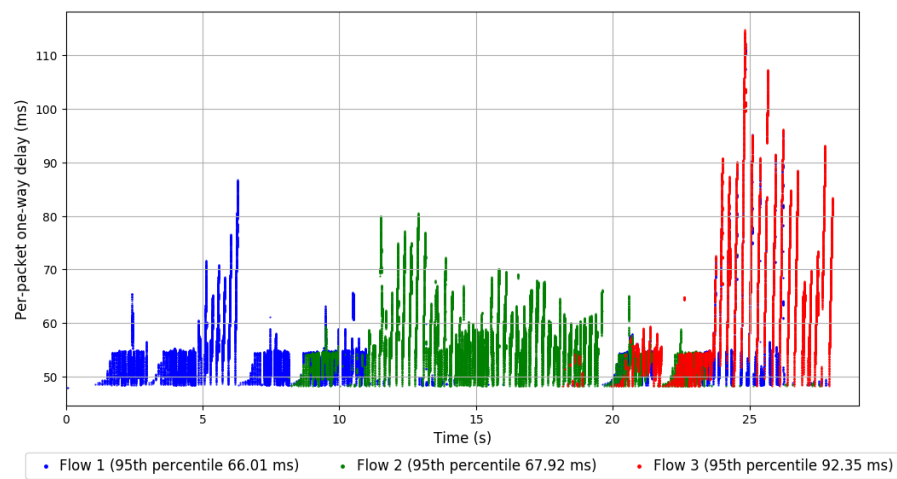
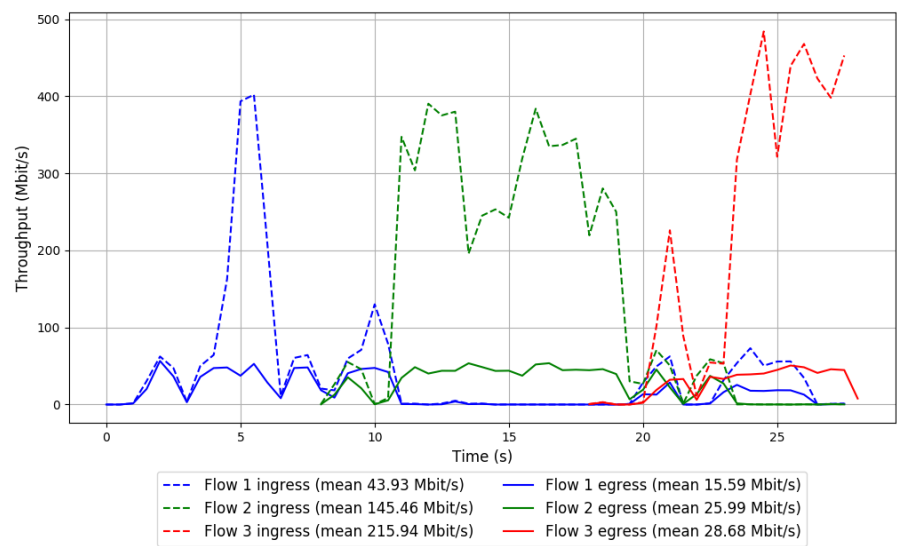


Run 8: Statistics of Verus

Start at: 2017-09-18 23:26:49
End at: 2017-09-18 23:27:19
Local clock offset: -5.436 ms
Remote clock offset: -1.773 ms

Below is generated by plot.py at 2017-09-19 00:37:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 78.977 ms
Loss rate: 80.21%
-- Flow 1:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 66.010 ms
Loss rate: 64.61%
-- Flow 2:
Average throughput: 25.99 Mbit/s
95th percentile per-packet one-way delay: 67.925 ms
Loss rate: 82.12%
-- Flow 3:
Average throughput: 28.68 Mbit/s
95th percentile per-packet one-way delay: 92.347 ms
Loss rate: 86.67%

Run 8: Report of Verus — Data Link

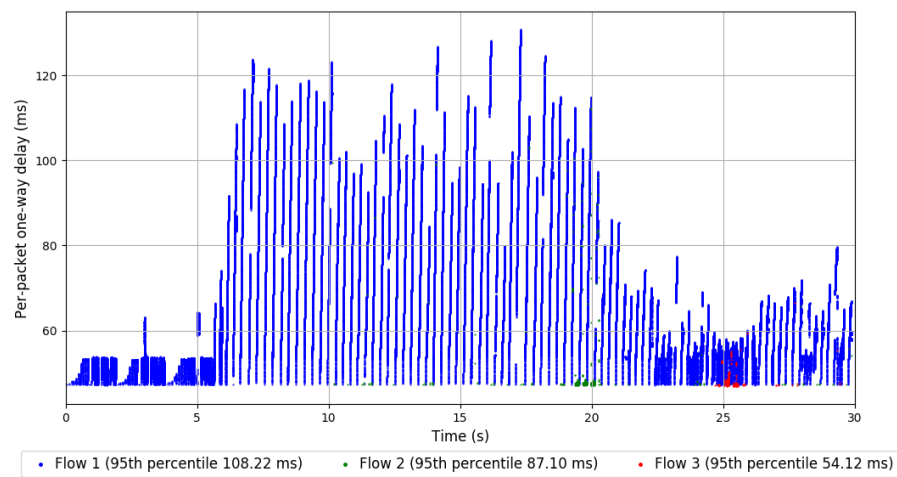
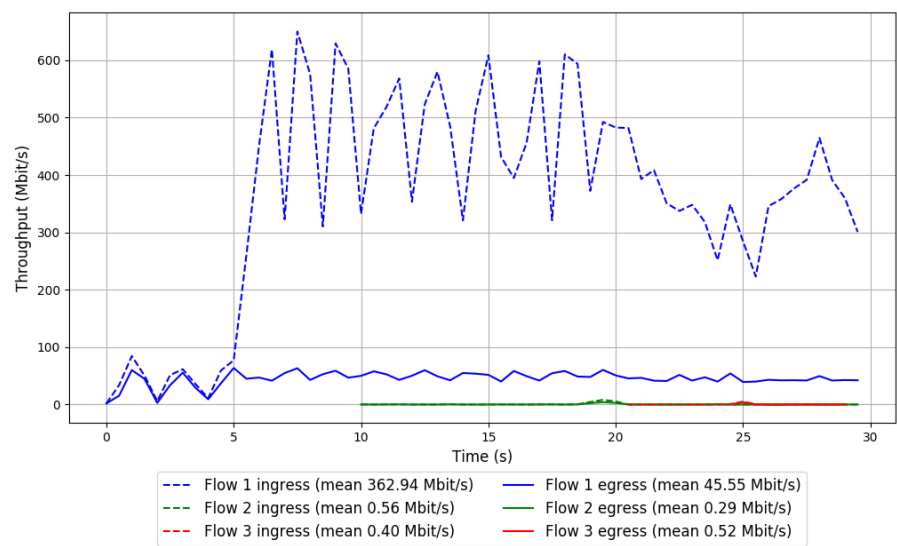


Run 9: Statistics of Verus

Start at: 2017-09-18 23:39:30
End at: 2017-09-18 23:40:00
Local clock offset: -4.461 ms
Remote clock offset: -1.874 ms

Below is generated by plot.py at 2017-09-19 00:37:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.82 Mbit/s
95th percentile per-packet one-way delay: 108.165 ms
Loss rate: 87.39%
-- Flow 1:
Average throughput: 45.55 Mbit/s
95th percentile per-packet one-way delay: 108.220 ms
Loss rate: 87.45%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 87.102 ms
Loss rate: 48.47%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 54.125 ms
Loss rate: 30.67%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 23:52:06
End at: 2017-09-18 23:52:36
Local clock offset: -5.96 ms
Remote clock offset: -1.783 ms

Below is generated by plot.py at 2017-09-19 00:37:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.25 Mbit/s
95th percentile per-packet one-way delay: 120.549 ms
Loss rate: 85.15%
-- Flow 1:
Average throughput: 36.58 Mbit/s
95th percentile per-packet one-way delay: 121.299 ms
Loss rate: 86.80%
-- Flow 2:
Average throughput: 22.74 Mbit/s
95th percentile per-packet one-way delay: 117.173 ms
Loss rate: 79.28%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 54.097 ms
Loss rate: 18.24%

Run 10: Report of Verus — Data Link

