

Pantheon Report

Generated at 2018-03-21 07:53:30 (UTC).

Data path: AWS India 1 Ethernet (*local*) → India Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

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

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

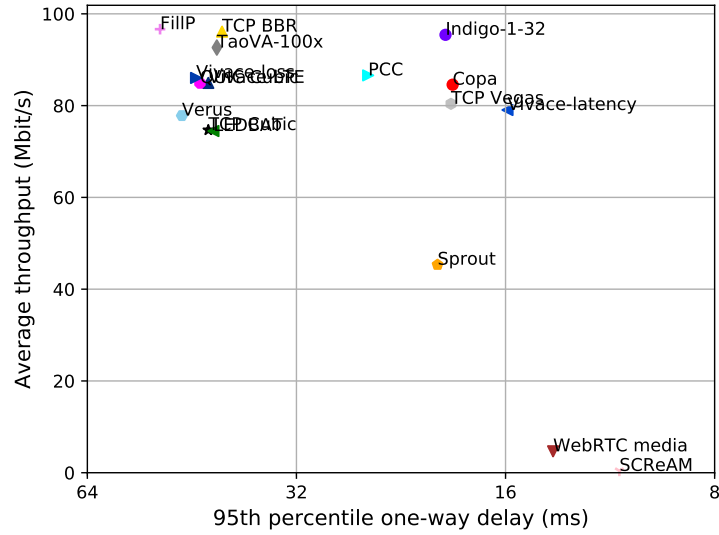
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

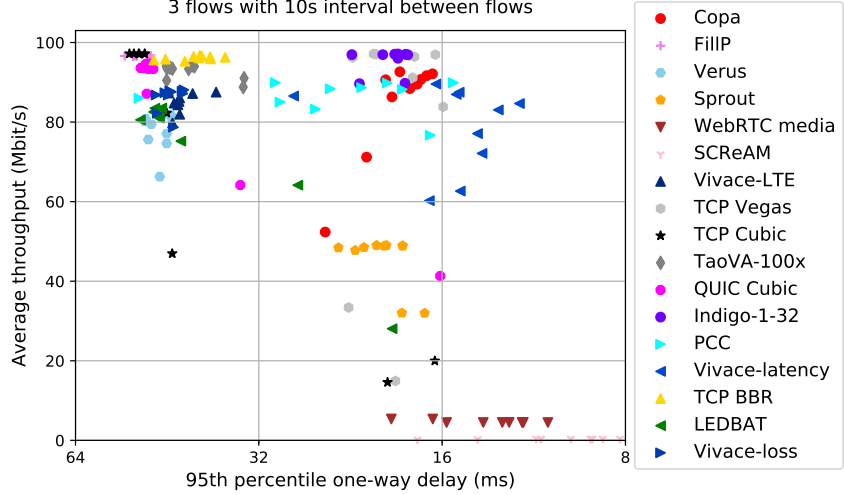
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



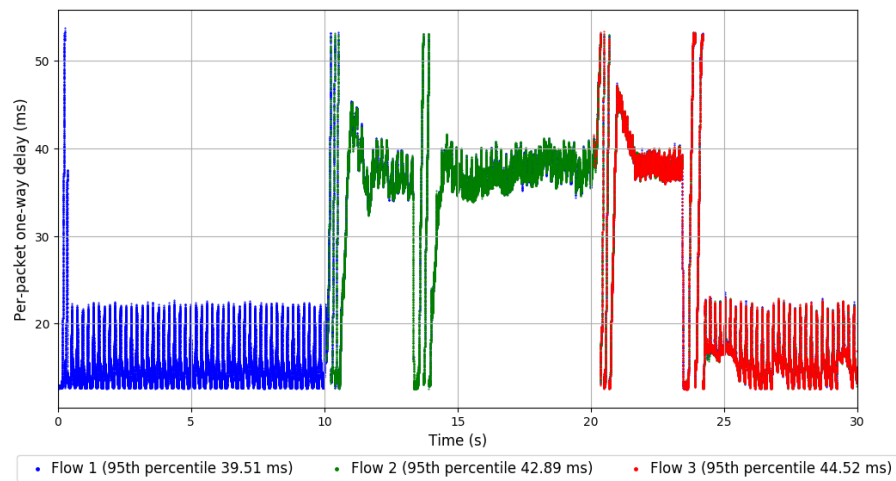
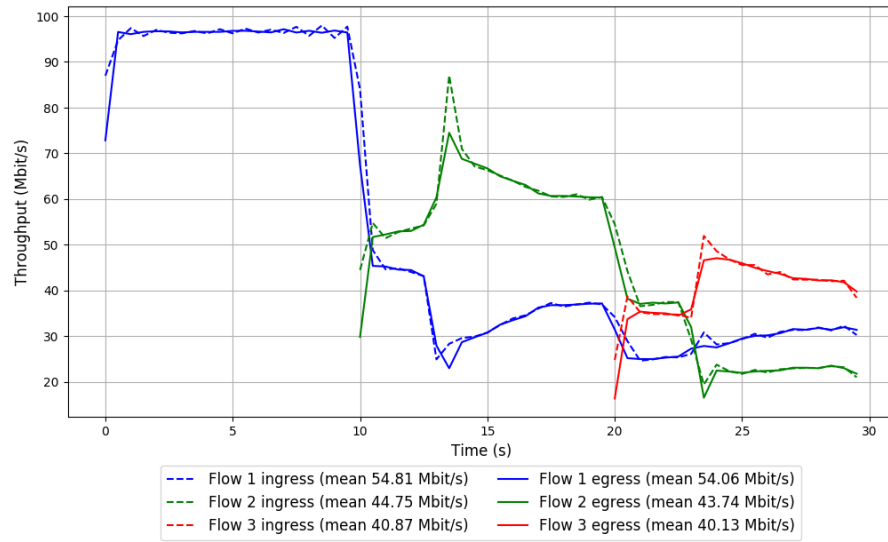
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	56.46	40.08	39.08	39.37	42.34	43.19	1.55	2.45	2.81
TCP Cubic	10	48.61	28.00	22.42	42.36	42.27	43.11	0.83	0.72	0.57
LEDBAT	10	45.24	29.89	30.40	41.57	42.57	42.48	0.41	0.60	0.54
PCC	10	74.33	14.87	7.19	24.61	29.61	27.43	2.49	3.31	3.32
QUIC Cubic	10	59.19	27.64	22.65	43.67	44.12	45.19	1.37	1.90	2.25
SCReAM	10	0.19	0.20	0.21	11.02	10.91	10.86	0.13	0.14	0.04
WebRTC media	10	2.44	1.57	0.65	13.55	13.51	14.30	0.07	0.08	0.10
Sprout	10	22.80	22.73	22.44	19.57	20.20	20.51	0.10	0.11	0.10
TaoVA-100x	10	55.25	38.76	34.87	38.42	42.62	44.68	3.55	7.16	15.47
TCP Vegas	10	47.75	32.48	33.18	19.94	17.23	14.30	0.20	0.38	0.07
Verus	10	50.15	31.65	23.82	45.97	47.99	46.29	26.61	38.19	30.86
Copa	10	51.27	36.02	28.05	18.47	19.44	19.90	0.09	0.08	0.08
FillP	10	51.89	42.61	50.30	49.99	50.45	51.82	26.60	30.90	35.27
Indigo-1-32	10	54.34	38.83	46.85	19.28	19.97	21.42	0.11	0.11	0.12
Vivace-latency	10	51.06	31.29	21.79	15.52	16.57	15.99	0.14	0.08	0.08
Vivace-loss	10	56.78	31.85	24.65	44.22	44.93	44.99	11.10	13.63	14.25
Vivace-LTE	10	54.98	32.79	24.74	40.58	44.52	46.04	1.57	2.35	2.84

Run 1: Statistics of TCP BBR

Start at: 2018-03-21 03:37:25
End at: 2018-03-21 03:37:55
Local clock offset: -14.314 ms
Remote clock offset: -3.061 ms

Below is generated by plot.py at 2018-03-21 07:27:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 40.951 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 39.508 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 43.74 Mbit/s
95th percentile per-packet one-way delay: 42.892 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 44.522 ms
Loss rate: 2.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-21 03:58:50

End at: 2018-03-21 03:59:20

Local clock offset: -8.275 ms

Remote clock offset: -1.64 ms

Below is generated by plot.py at 2018-03-21 07:28:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.75 Mbit/s

95th percentile per-packet one-way delay: 39.987 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 55.14 Mbit/s

95th percentile per-packet one-way delay: 38.796 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 41.13 Mbit/s

95th percentile per-packet one-way delay: 42.817 ms

Loss rate: 1.87%

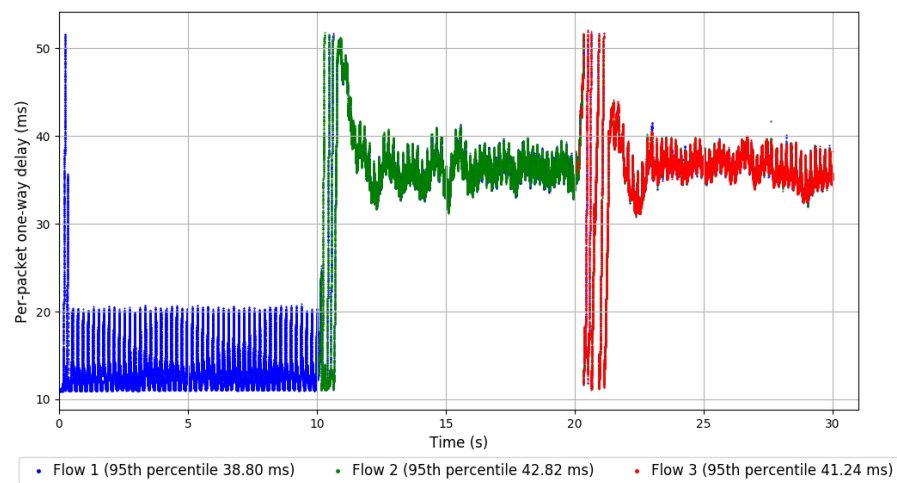
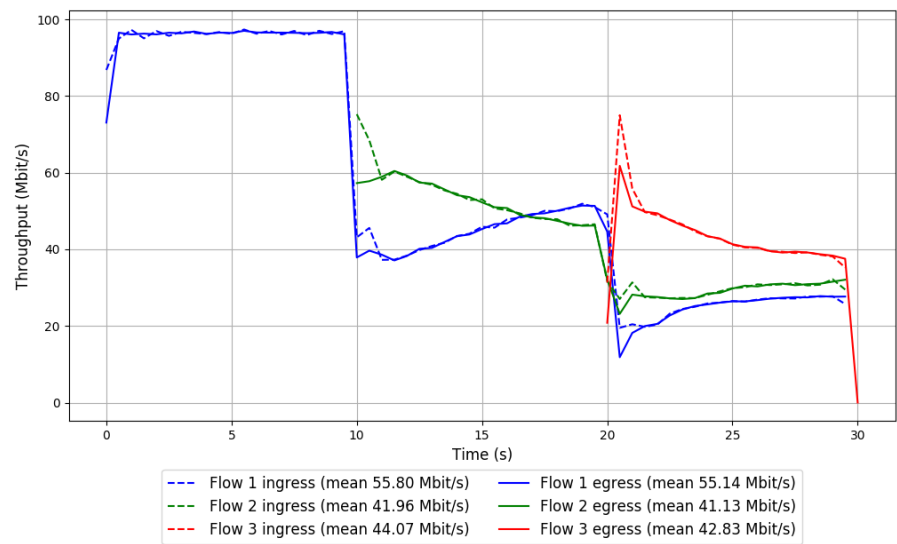
-- Flow 3:

Average throughput: 42.83 Mbit/s

95th percentile per-packet one-way delay: 41.243 ms

Loss rate: 2.80%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-21 04:20:25

End at: 2018-03-21 04:20:55

Local clock offset: -0.136 ms

Remote clock offset: 0.36 ms

Below is generated by plot.py at 2018-03-21 07:28:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 45.542 ms

Loss rate: 4.34%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 42.556 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 46.312 ms

Loss rate: 5.70%

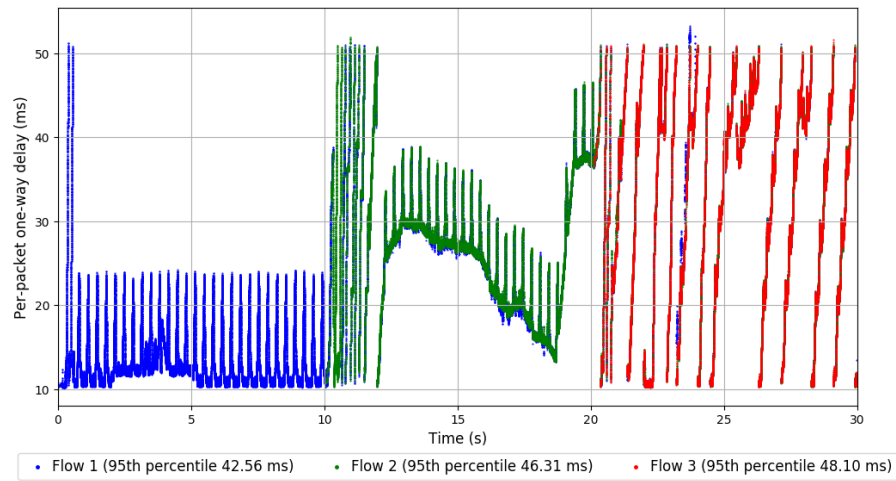
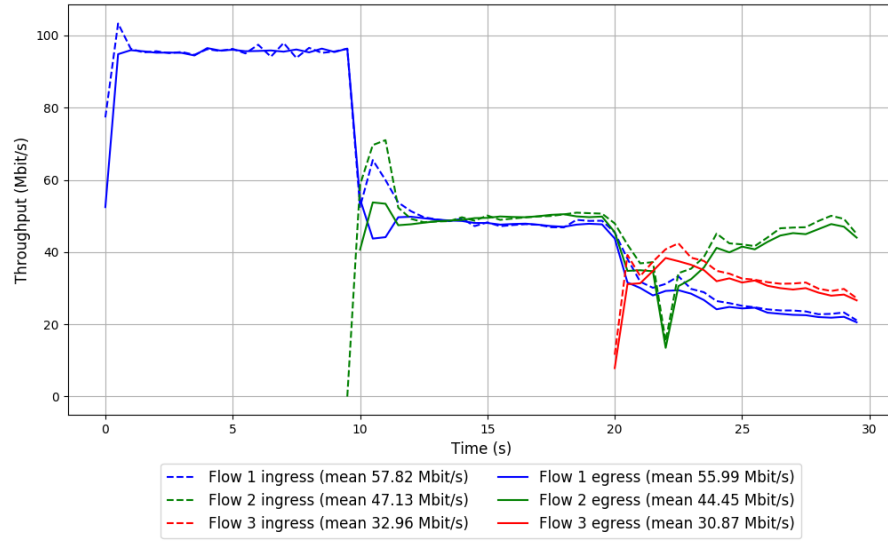
-- Flow 3:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 48.104 ms

Loss rate: 6.66%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-21 04:41:53

End at: 2018-03-21 04:42:23

Local clock offset: -2.51 ms

Remote clock offset: 1.857 ms

Below is generated by plot.py at 2018-03-21 07:28:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 40.129 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 36.754 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 38.25 Mbit/s

95th percentile per-packet one-way delay: 41.674 ms

Loss rate: 1.69%

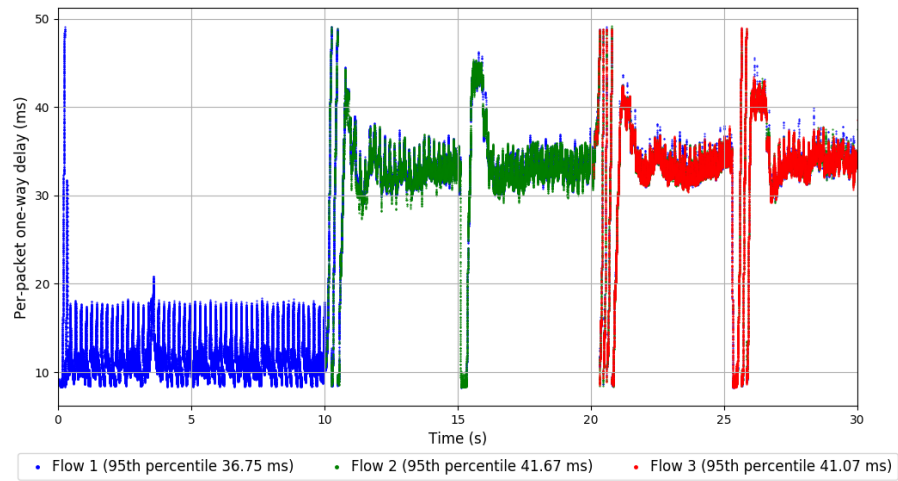
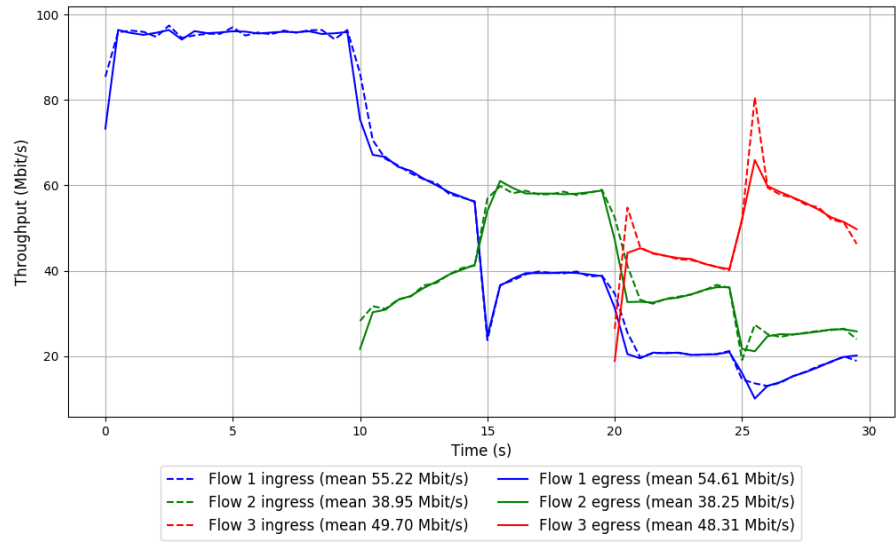
-- Flow 3:

Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 41.067 ms

Loss rate: 2.75%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-21 05:02:57

End at: 2018-03-21 05:03:27

Local clock offset: -5.993 ms

Remote clock offset: 2.524 ms

Below is generated by plot.py at 2018-03-21 07:28:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 39.723 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 52.50 Mbit/s

95th percentile per-packet one-way delay: 38.349 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 44.17 Mbit/s

95th percentile per-packet one-way delay: 41.259 ms

Loss rate: 2.05%

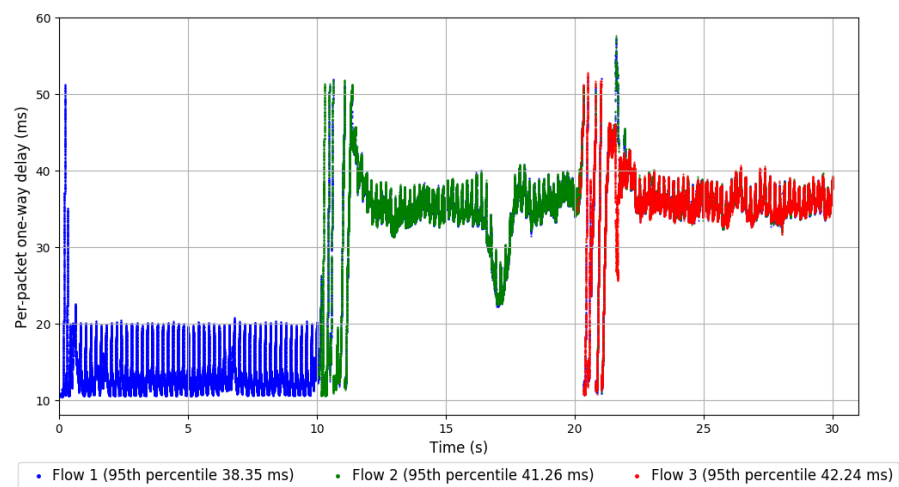
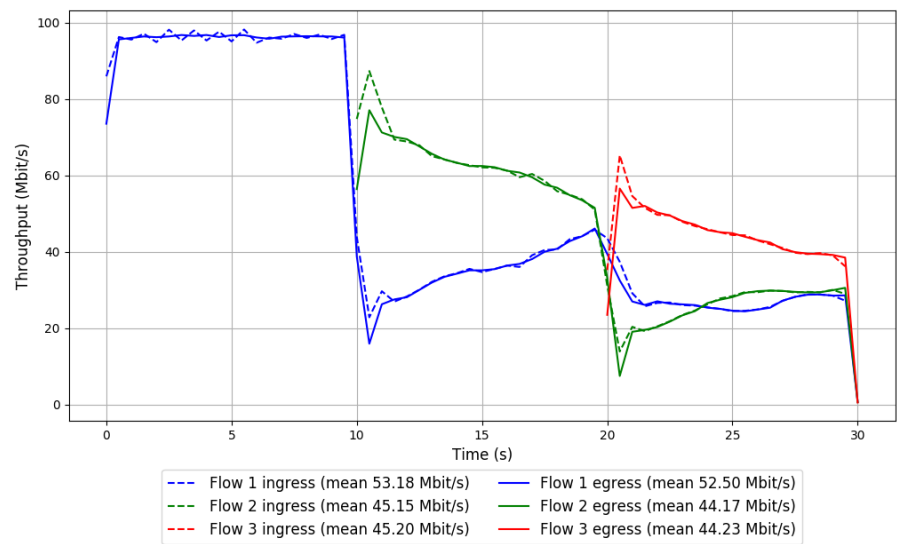
-- Flow 3:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 42.240 ms

Loss rate: 2.10%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-21 05:24:09

End at: 2018-03-21 05:24:39

Local clock offset: 2.622 ms

Remote clock offset: 1.534 ms

Below is generated by plot.py at 2018-03-21 07:28:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 36.355 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 35.974 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 40.17 Mbit/s

95th percentile per-packet one-way delay: 36.599 ms

Loss rate: 2.37%

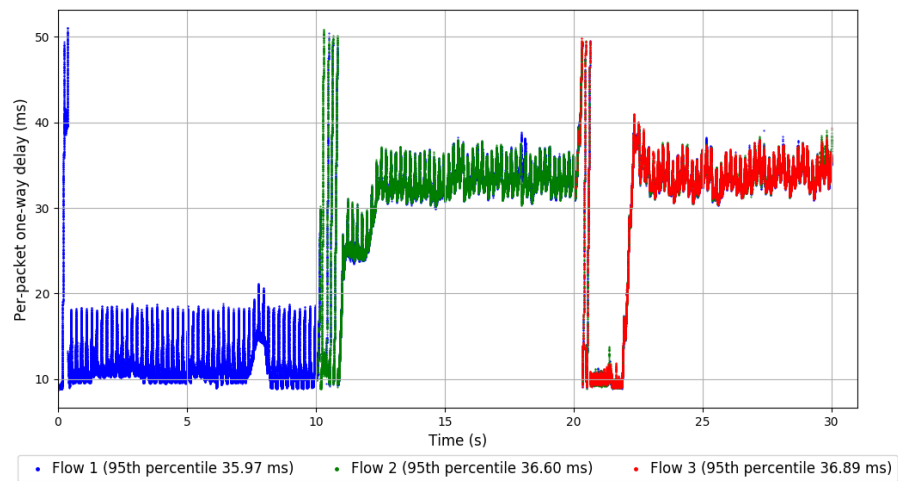
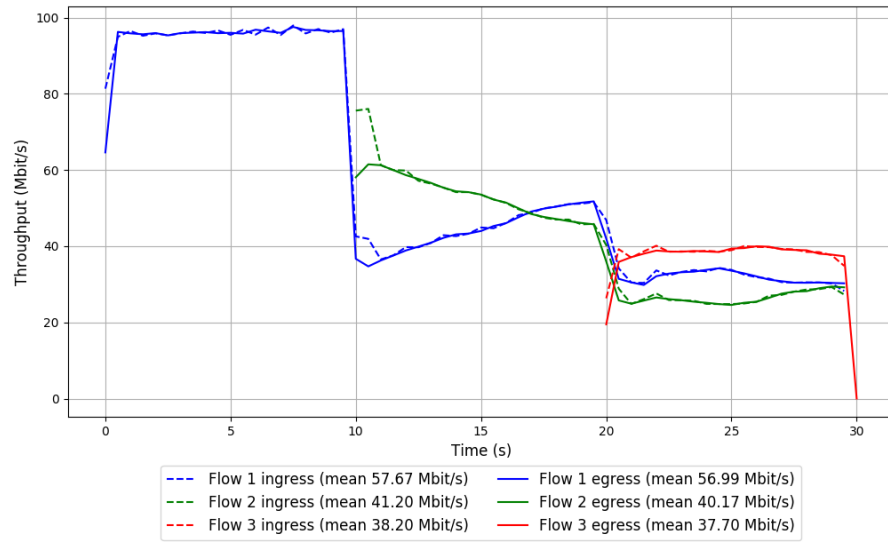
-- Flow 3:

Average throughput: 37.70 Mbit/s

95th percentile per-packet one-way delay: 36.894 ms

Loss rate: 1.24%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-21 05:45:18

End at: 2018-03-21 05:45:48

Local clock offset: -1.714 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2018-03-21 07:28:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.41 Mbit/s

95th percentile per-packet one-way delay: 38.468 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 55.45 Mbit/s

95th percentile per-packet one-way delay: 36.820 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 43.48 Mbit/s

95th percentile per-packet one-way delay: 40.471 ms

Loss rate: 2.46%

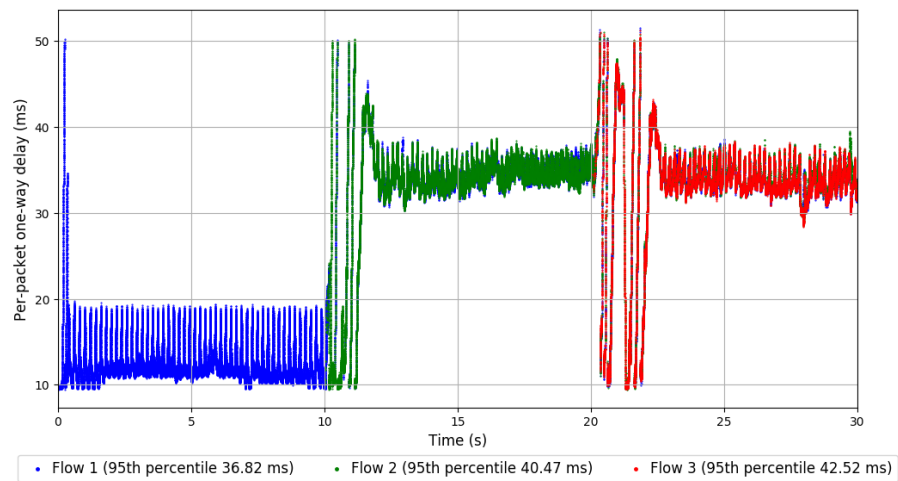
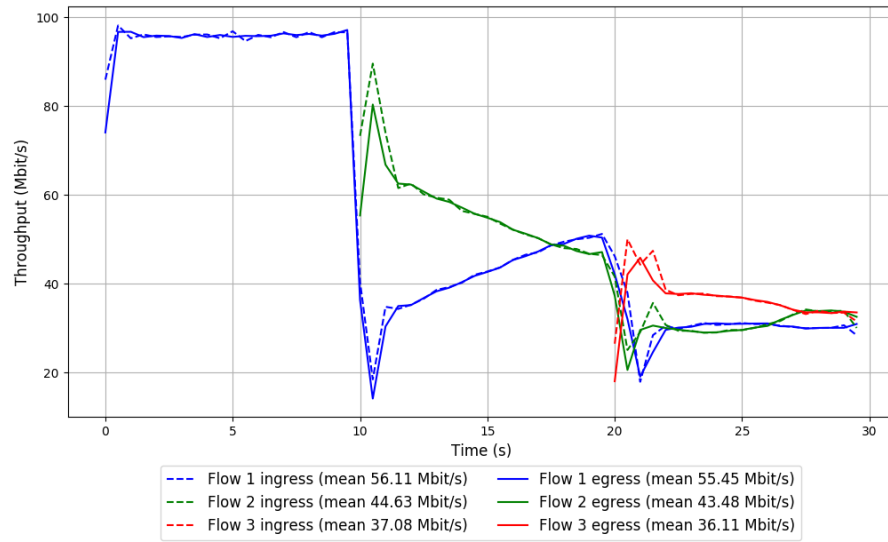
-- Flow 3:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 42.519 ms

Loss rate: 2.64%

Run 7: Report of TCP BBR — Data Link

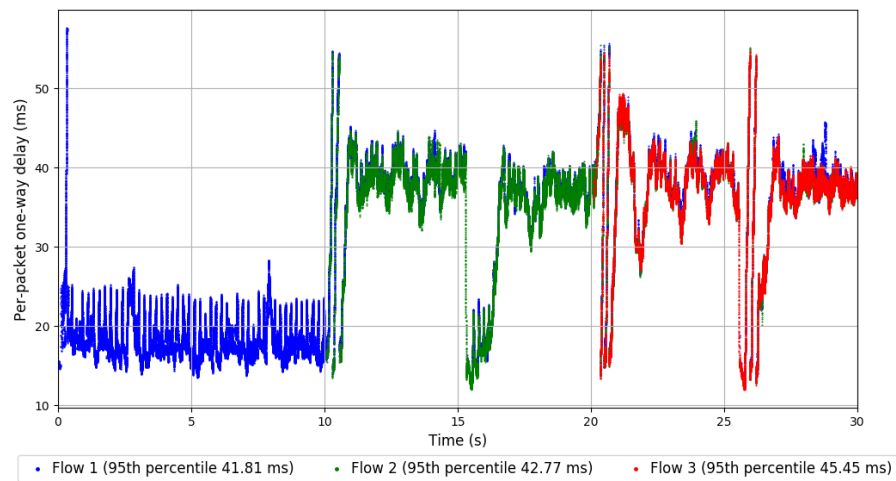
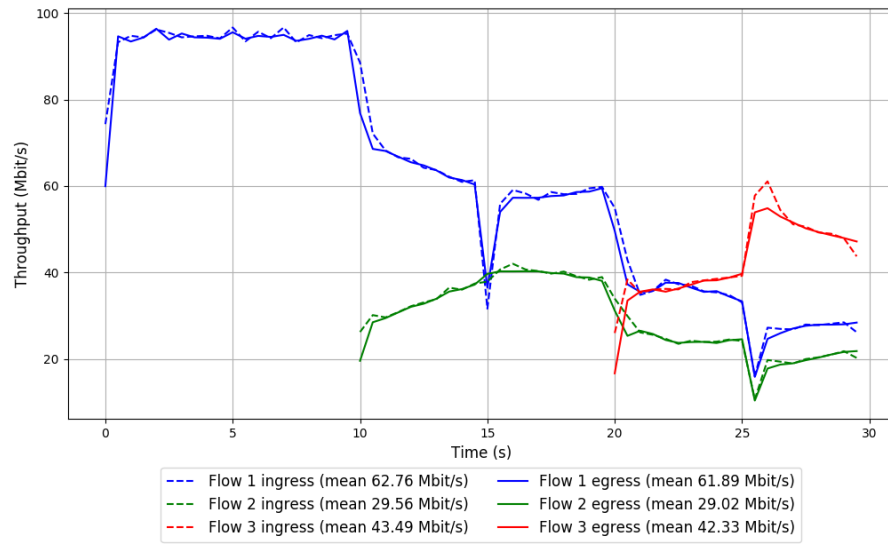


Run 8: Statistics of TCP BBR

Start at: 2018-03-21 06:06:47
End at: 2018-03-21 06:07:17
Local clock offset: -8.372 ms
Remote clock offset: -2.404 ms

Below is generated by plot.py at 2018-03-21 07:28:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 42.329 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 61.89 Mbit/s
95th percentile per-packet one-way delay: 41.811 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 42.770 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 42.33 Mbit/s
95th percentile per-packet one-way delay: 45.447 ms
Loss rate: 2.68%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-21 06:28:00

End at: 2018-03-21 06:28:30

Local clock offset: -4.252 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-03-21 07:29:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 47.587 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 54.82 Mbit/s

95th percentile per-packet one-way delay: 46.020 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 40.11 Mbit/s

95th percentile per-packet one-way delay: 48.998 ms

Loss rate: 2.23%

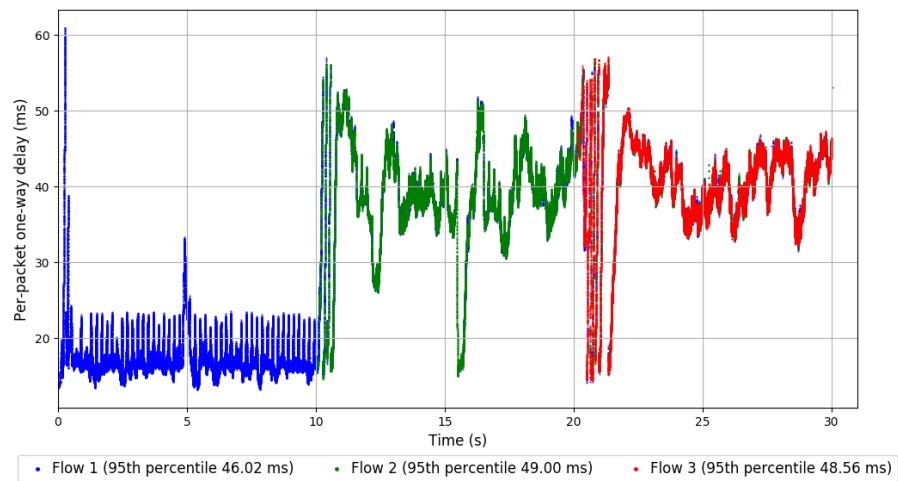
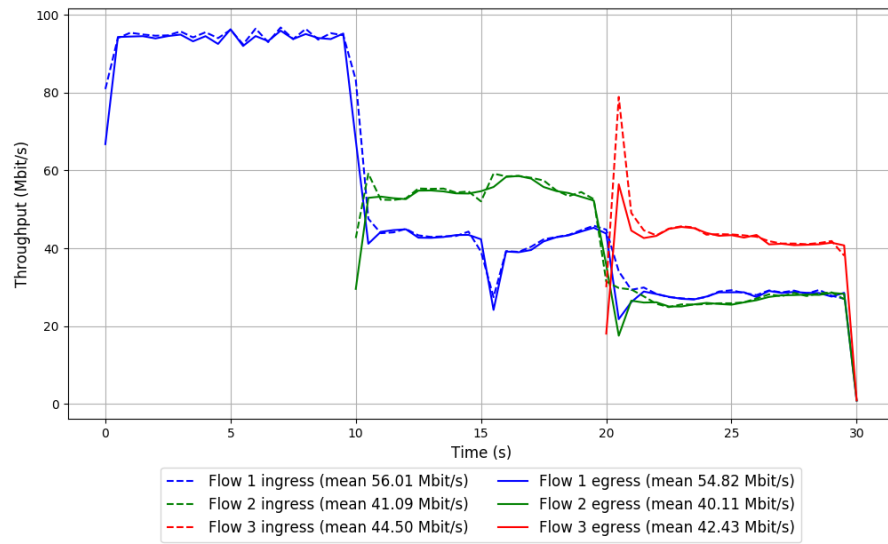
-- Flow 3:

Average throughput: 42.43 Mbit/s

95th percentile per-packet one-way delay: 48.561 ms

Loss rate: 4.57%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-21 06:49:43

End at: 2018-03-21 06:50:13

Local clock offset: -0.537 ms

Remote clock offset: 0.656 ms

Below is generated by plot.py at 2018-03-21 07:29:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 38.415 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 37.150 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 39.578 ms

Loss rate: 2.13%

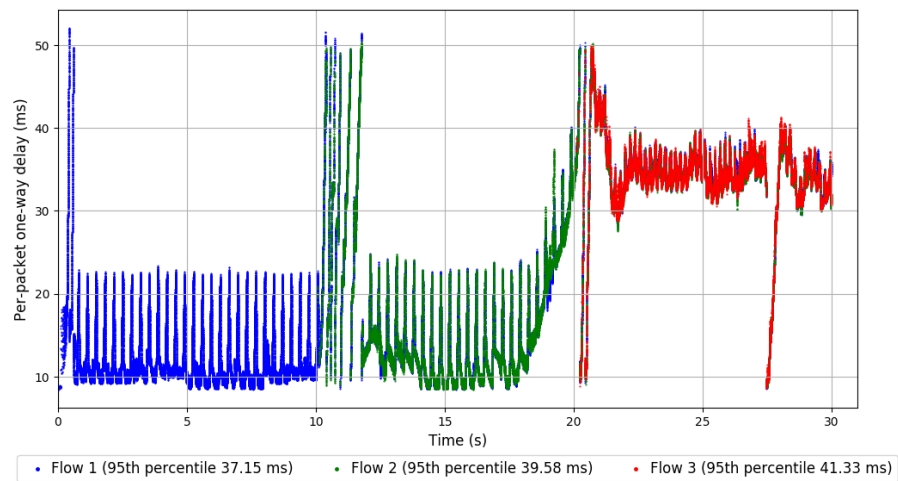
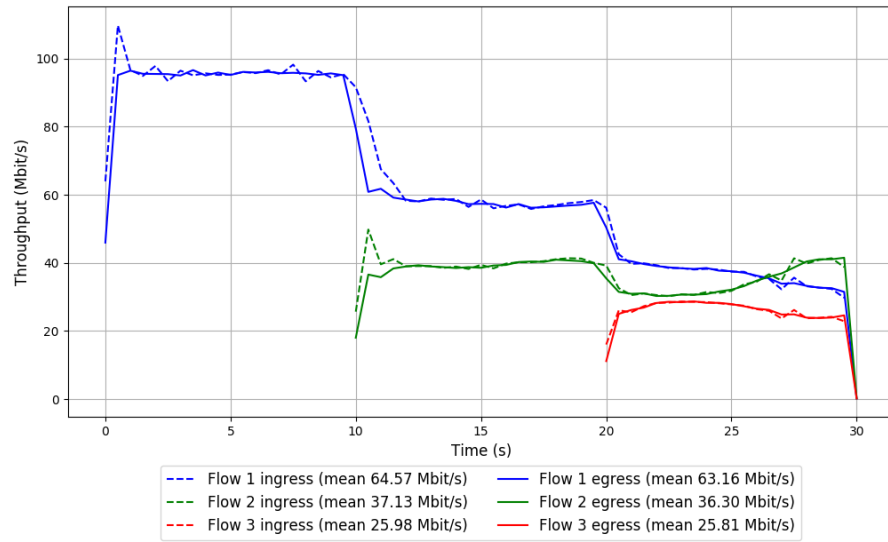
-- Flow 3:

Average throughput: 25.81 Mbit/s

95th percentile per-packet one-way delay: 41.329 ms

Loss rate: 0.70%

Run 10: Report of TCP BBR — Data Link

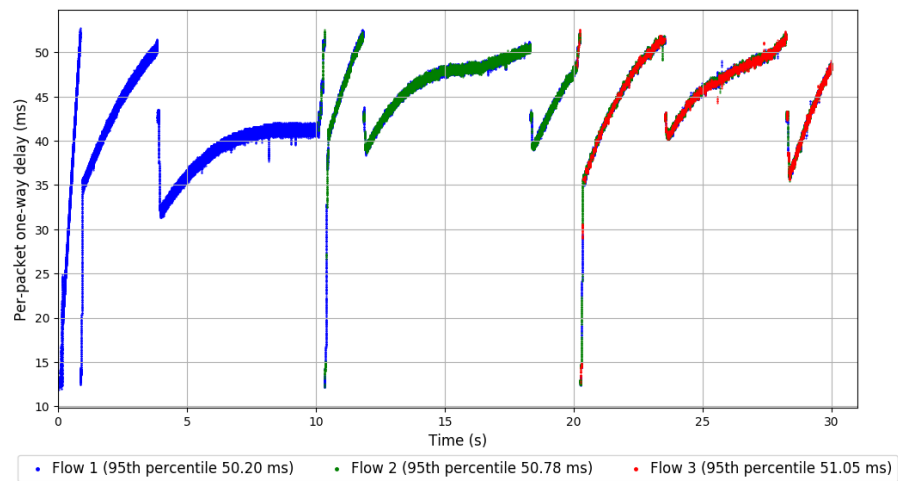
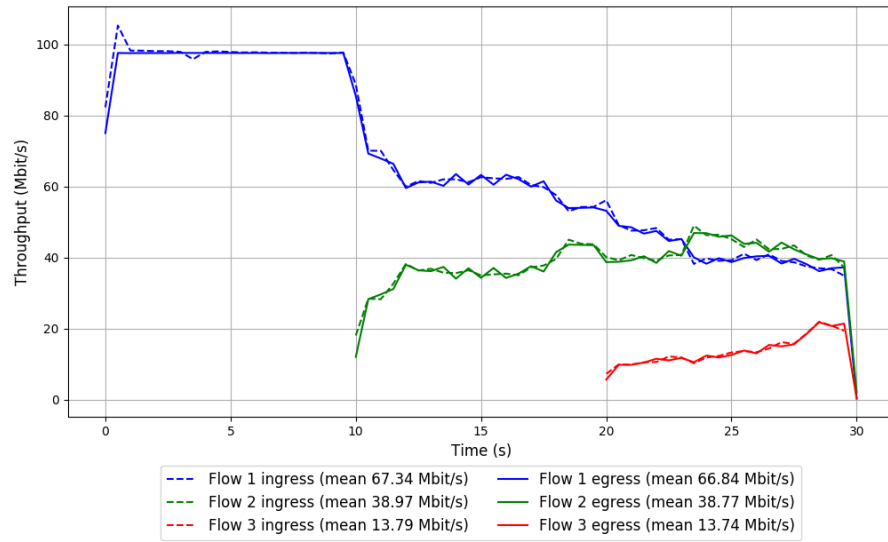


Run 1: Statistics of TCP Cubic

Start at: 2018-03-21 03:39:46
End at: 2018-03-21 03:40:16
Local clock offset: -14.13 ms
Remote clock offset: -3.227 ms

Below is generated by plot.py at 2018-03-21 07:29:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 50.406 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 66.84 Mbit/s
95th percentile per-packet one-way delay: 50.203 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 50.777 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 13.74 Mbit/s
95th percentile per-packet one-way delay: 51.054 ms
Loss rate: 0.37%

Run 1: Report of TCP Cubic — Data Link

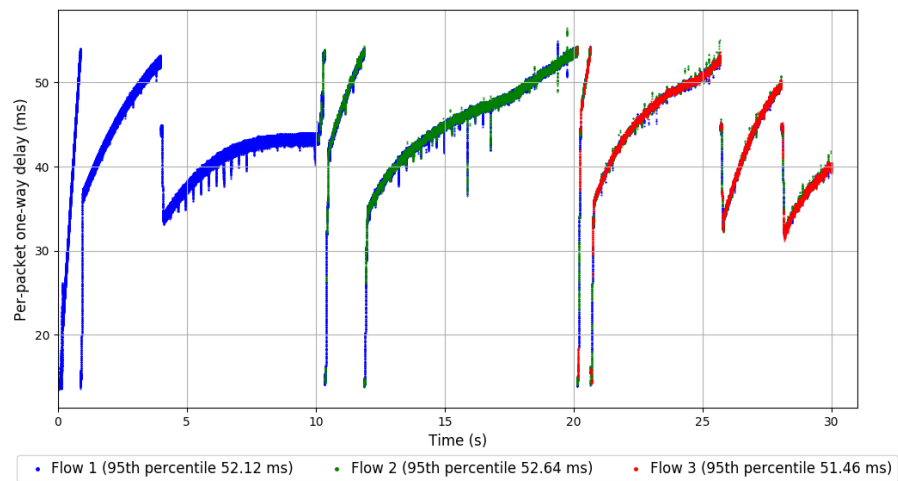
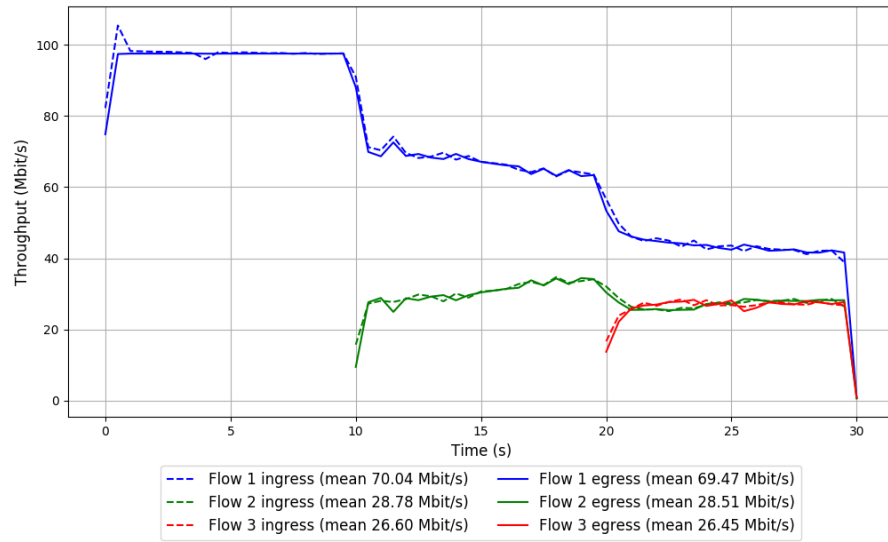


Run 2: Statistics of TCP Cubic

Start at: 2018-03-21 04:01:16
End at: 2018-03-21 04:01:46
Local clock offset: -8.747 ms
Remote clock offset: -0.797 ms

Below is generated by plot.py at 2018-03-21 07:29:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 52.192 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 69.47 Mbit/s
95th percentile per-packet one-way delay: 52.119 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 52.642 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 51.459 ms
Loss rate: 0.71%

Run 2: Report of TCP Cubic — Data Link

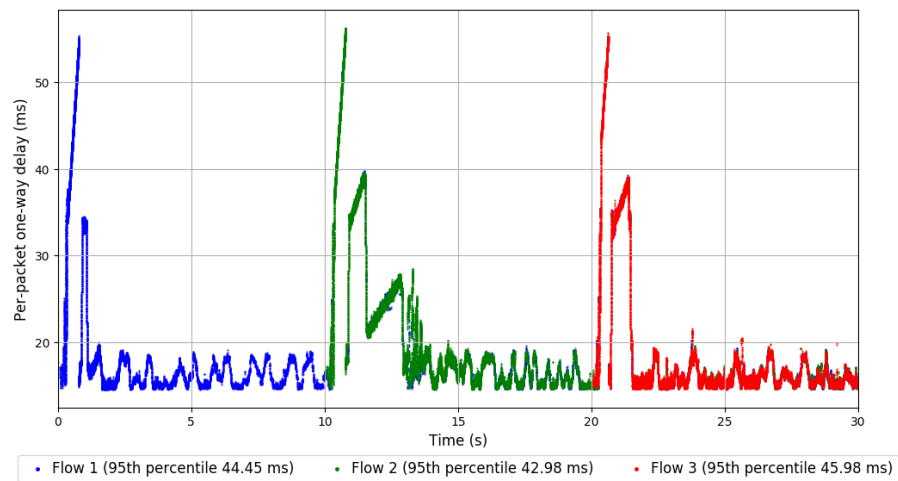
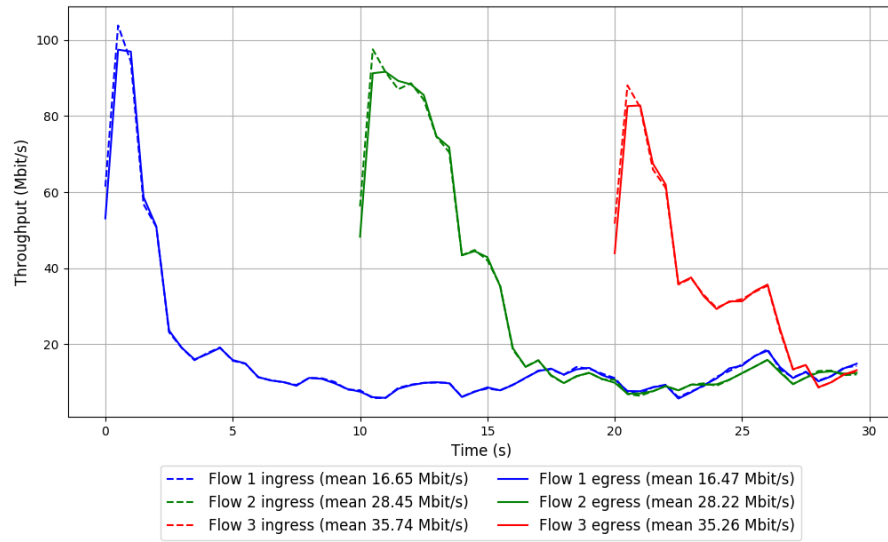


Run 3: Statistics of TCP Cubic

Start at: 2018-03-21 04:22:57
End at: 2018-03-21 04:23:27
Local clock offset: -4.722 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-03-21 07:29:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.95 Mbit/s
95th percentile per-packet one-way delay: 44.396 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 16.47 Mbit/s
95th percentile per-packet one-way delay: 44.445 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 28.22 Mbit/s
95th percentile per-packet one-way delay: 42.985 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 35.26 Mbit/s
95th percentile per-packet one-way delay: 45.976 ms
Loss rate: 1.35%

Run 3: Report of TCP Cubic — Data Link

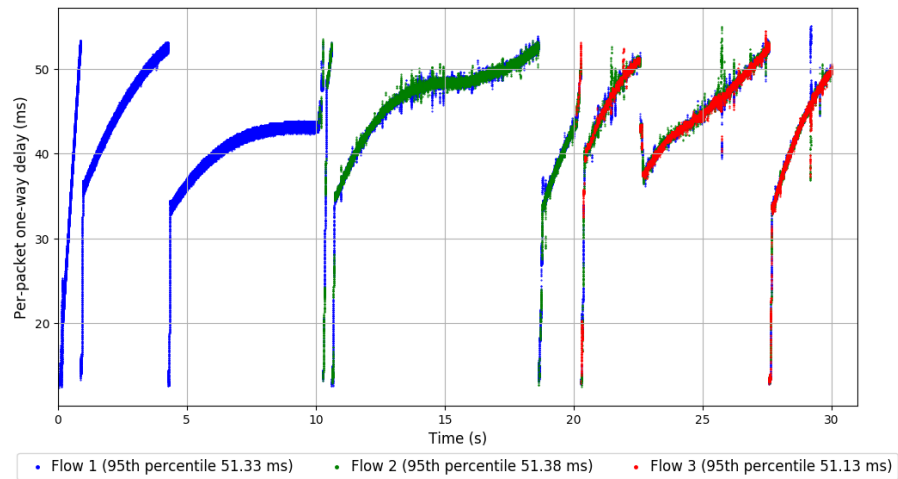
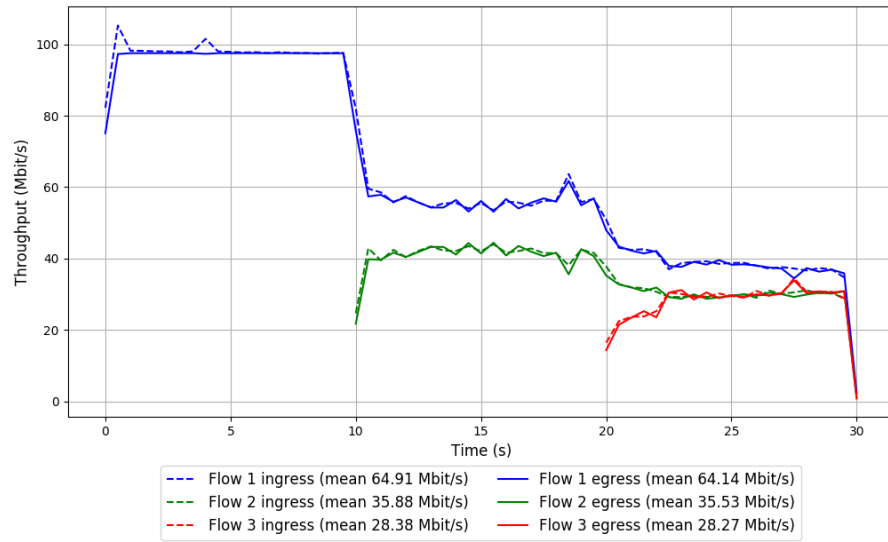


Run 4: Statistics of TCP Cubic

Start at: 2018-03-21 04:44:14
End at: 2018-03-21 04:44:44
Local clock offset: -6.389 ms
Remote clock offset: 2.598 ms

Below is generated by plot.py at 2018-03-21 07:29:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 51.326 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 64.14 Mbit/s
95th percentile per-packet one-way delay: 51.332 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 51.381 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 28.27 Mbit/s
95th percentile per-packet one-way delay: 51.127 ms
Loss rate: 0.32%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-21 05:05:18

End at: 2018-03-21 05:05:48

Local clock offset: -2.833 ms

Remote clock offset: 3.862 ms

Below is generated by plot.py at 2018-03-21 07:29:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 49.278 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 64.09 Mbit/s

95th percentile per-packet one-way delay: 49.208 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 37.94 Mbit/s

95th percentile per-packet one-way delay: 49.369 ms

Loss rate: 0.34%

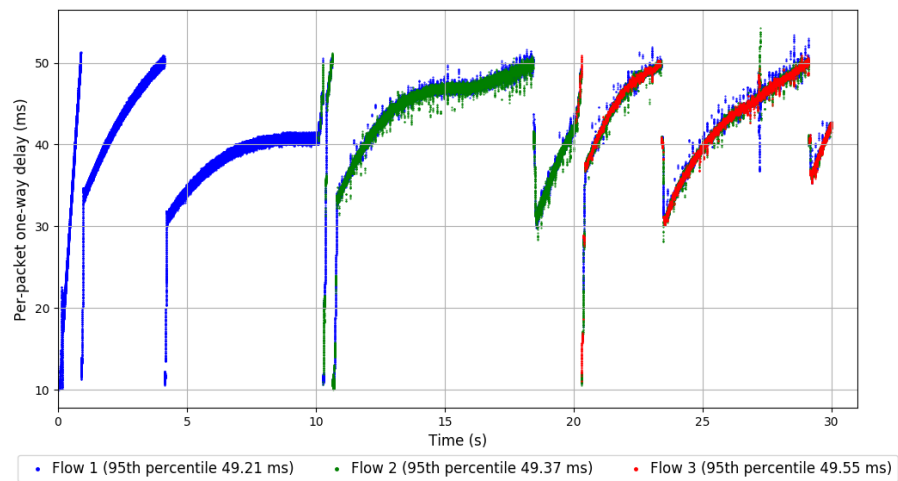
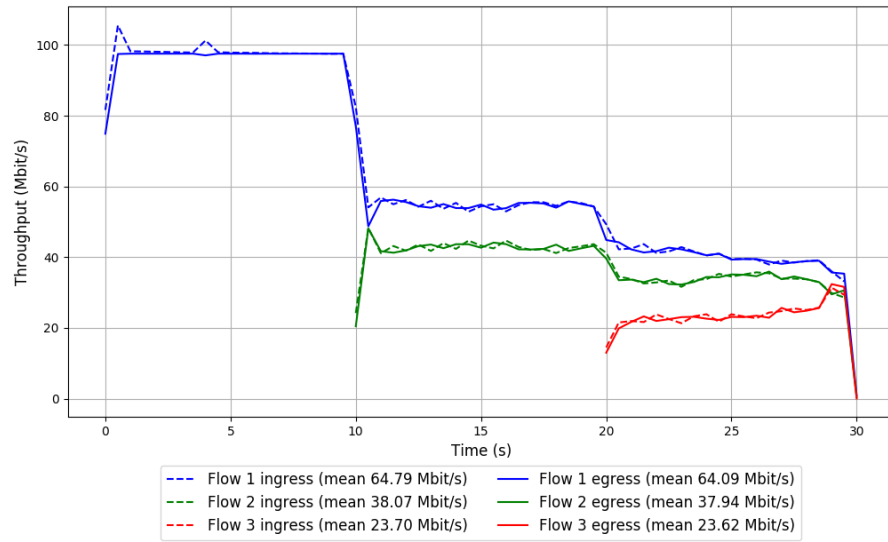
-- Flow 3:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 49.547 ms

Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-21 05:26:31

End at: 2018-03-21 05:27:01

Local clock offset: 1.645 ms

Remote clock offset: 1.332 ms

Below is generated by plot.py at 2018-03-21 07:29:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 49.243 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 49.214 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 49.412 ms

Loss rate: 0.85%

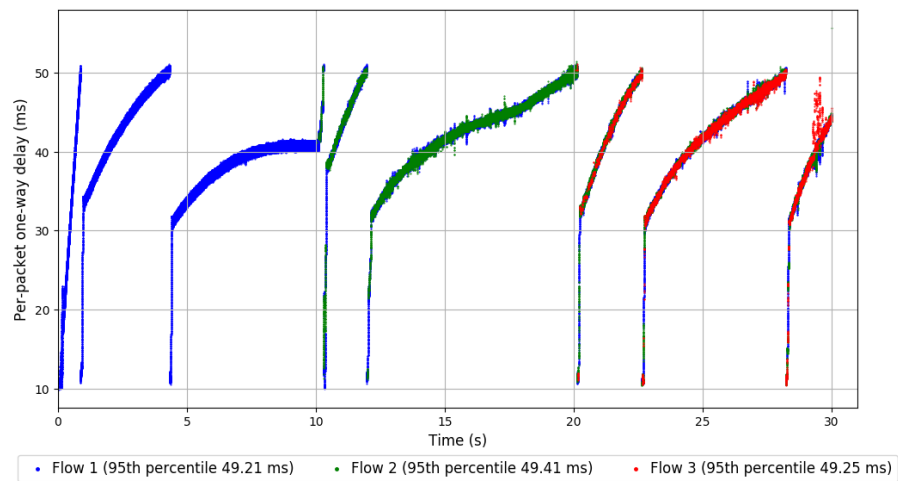
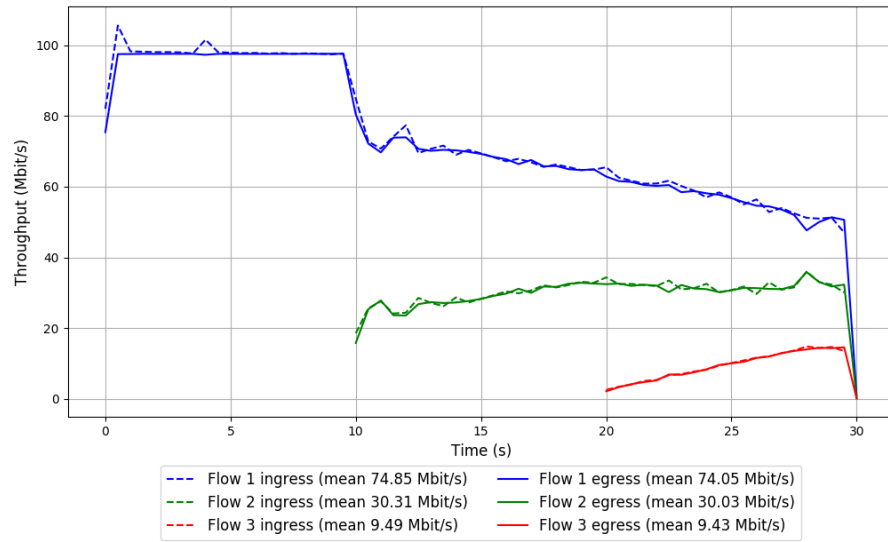
-- Flow 3:

Average throughput: 9.43 Mbit/s

95th percentile per-packet one-way delay: 49.246 ms

Loss rate: 0.70%

Run 6: Report of TCP Cubic — Data Link

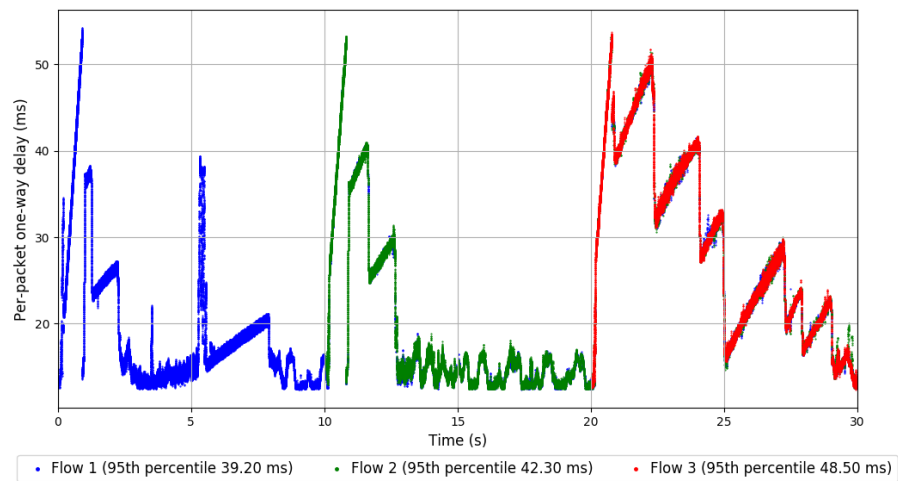
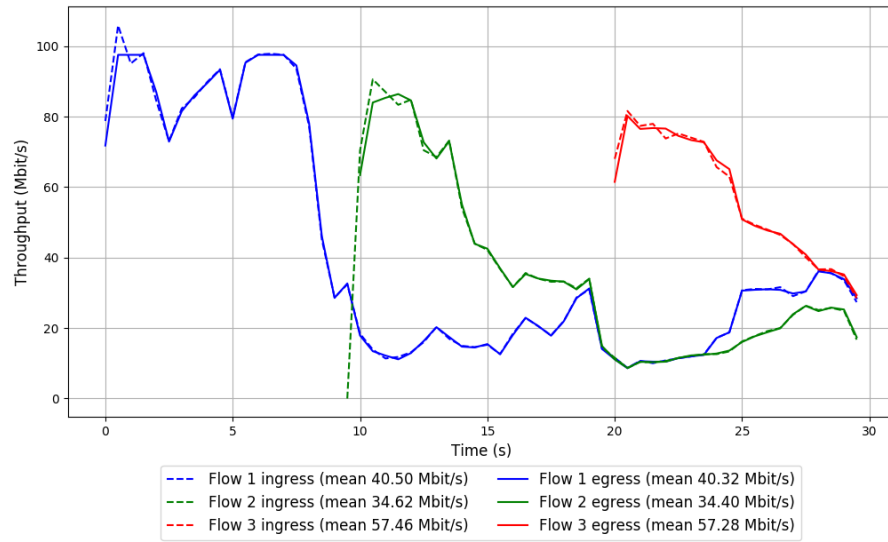


Run 7: Statistics of TCP Cubic

Start at: 2018-03-21 05:47:42
End at: 2018-03-21 05:48:12
Local clock offset: -5.813 ms
Remote clock offset: -0.497 ms

Below is generated by plot.py at 2018-03-21 07:29:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.28 Mbit/s
95th percentile per-packet one-way delay: 45.324 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 40.32 Mbit/s
95th percentile per-packet one-way delay: 39.199 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 34.40 Mbit/s
95th percentile per-packet one-way delay: 42.303 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 57.28 Mbit/s
95th percentile per-packet one-way delay: 48.503 ms
Loss rate: 0.31%

Run 7: Report of TCP Cubic — Data Link

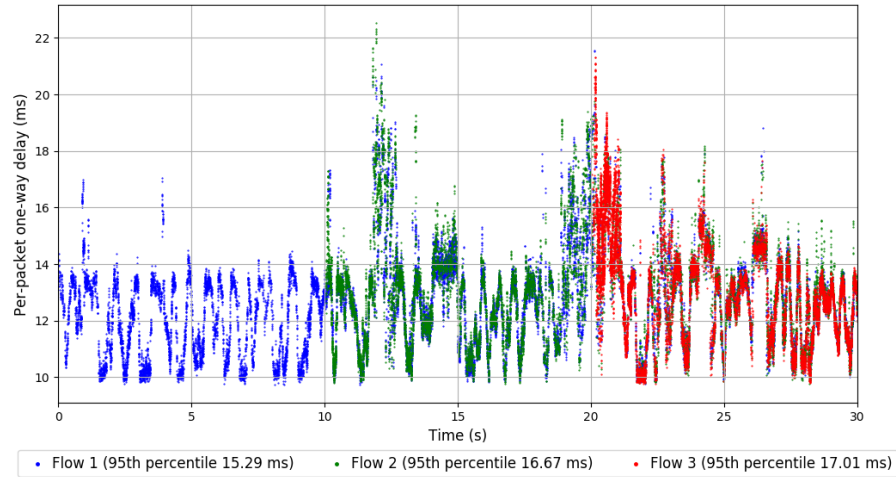
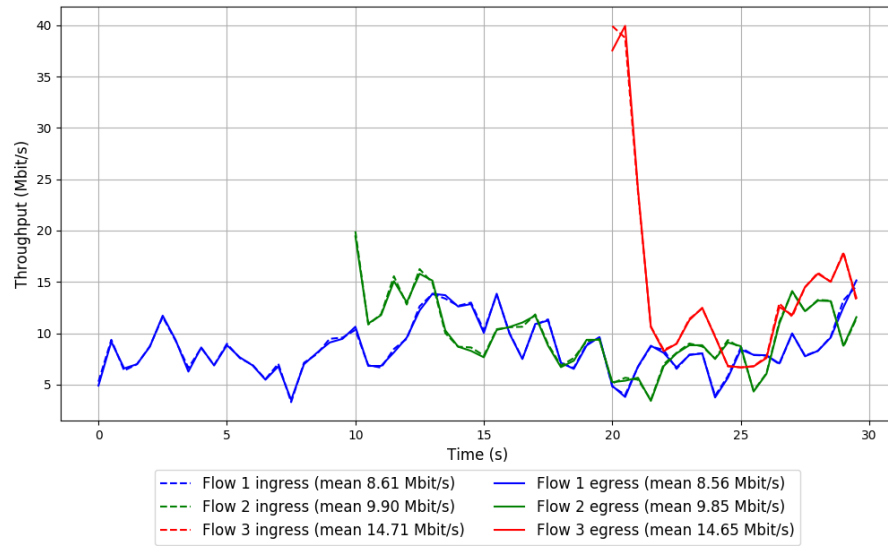


Run 8: Statistics of TCP Cubic

Start at: 2018-03-21 06:09:15
End at: 2018-03-21 06:09:45
Local clock offset: -6.463 ms
Remote clock offset: -2.554 ms

Below is generated by plot.py at 2018-03-21 07:29:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 16.449 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 15.293 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 16.667 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 17.008 ms
Loss rate: 0.47%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-21 06:30:27

End at: 2018-03-21 06:30:57

Local clock offset: -2.598 ms

Remote clock offset: 0.599 ms

Below is generated by plot.py at 2018-03-21 07:29:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.60 Mbit/s

95th percentile per-packet one-way delay: 19.667 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 8.23 Mbit/s

95th percentile per-packet one-way delay: 22.357 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 16.653 ms

Loss rate: 0.96%

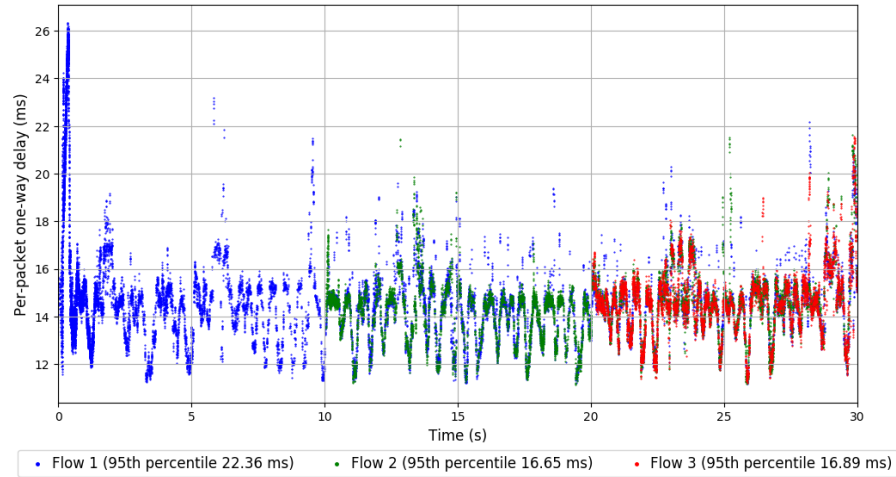
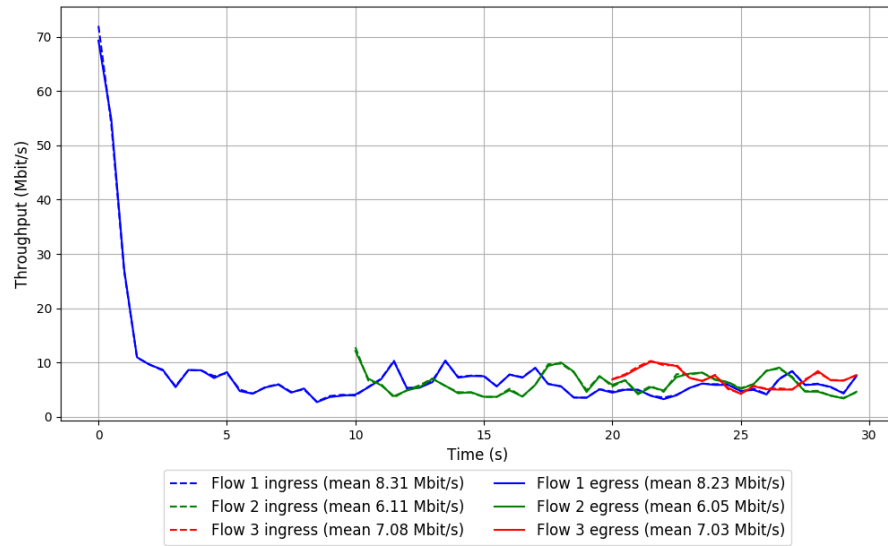
-- Flow 3:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 16.890 ms

Loss rate: 0.75%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-21 06:52:10

End at: 2018-03-21 06:52:40

Local clock offset: -2.947 ms

Remote clock offset: 0.813 ms

Below is generated by plot.py at 2018-03-21 07:30:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 50.287 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 50.193 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 50.522 ms

Loss rate: 0.65%

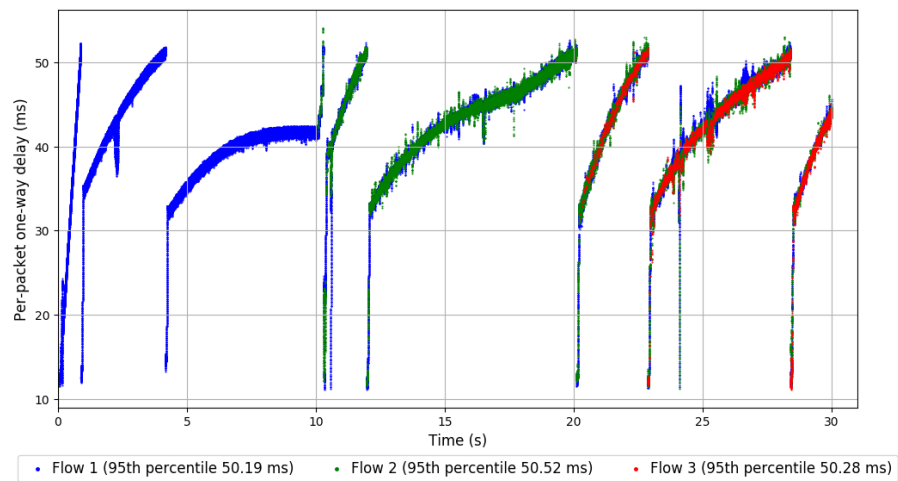
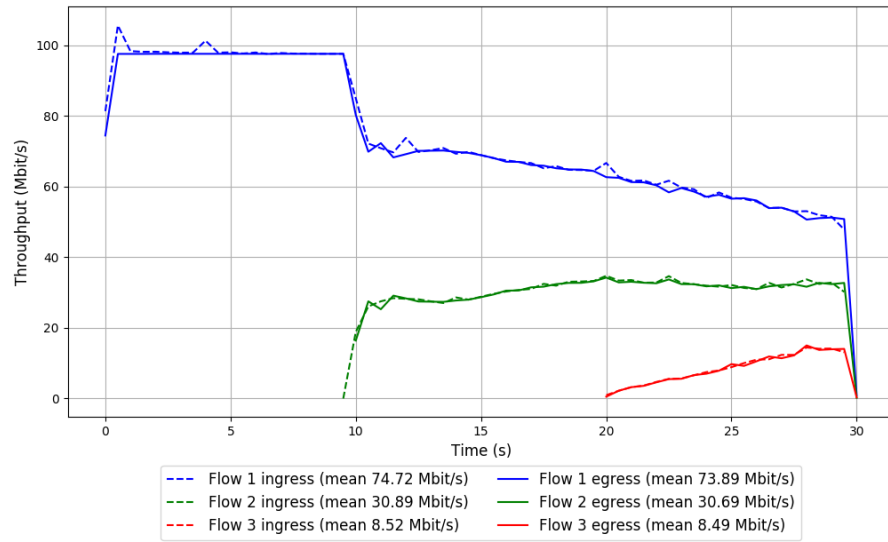
-- Flow 3:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 50.281 ms

Loss rate: 0.40%

Run 10: Report of TCP Cubic — Data Link

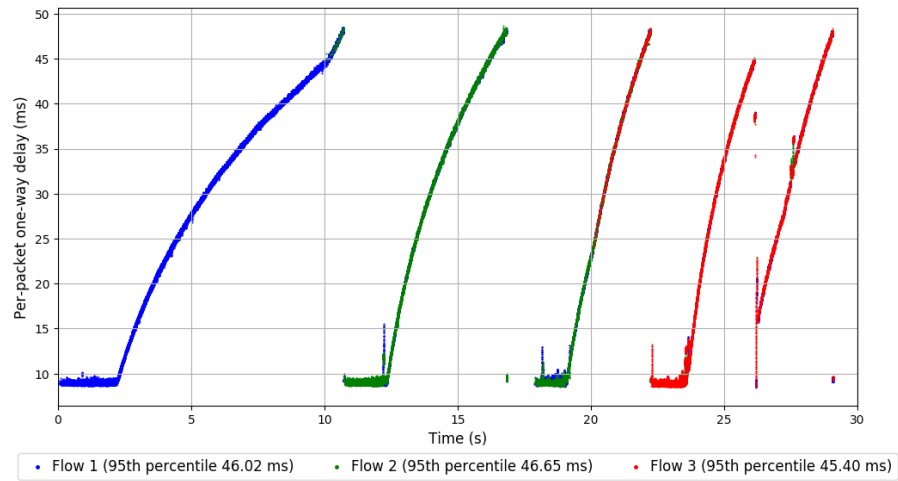
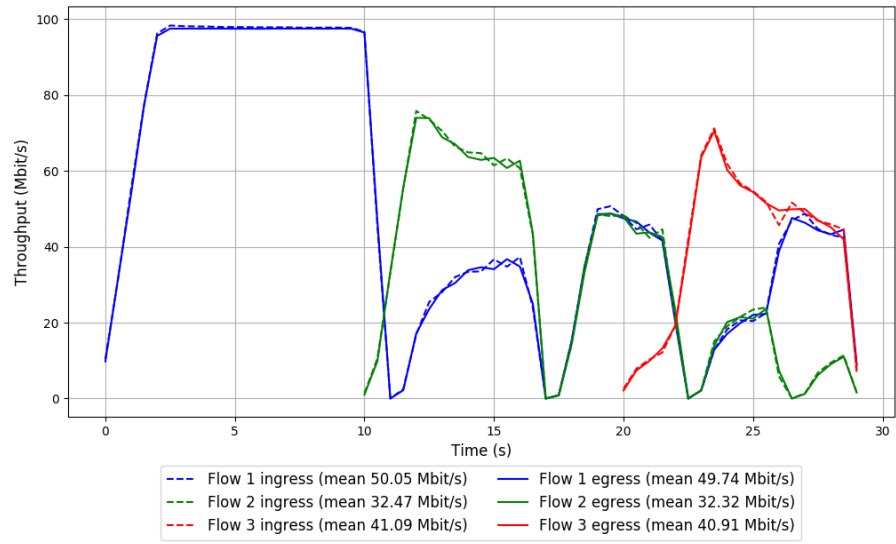


Run 1: Statistics of LEDBAT

Start at: 2018-03-21 03:26:54
End at: 2018-03-21 03:27:24
Local clock offset: -11.103 ms
Remote clock offset: -6.029 ms

Below is generated by plot.py at 2018-03-21 07:30:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 46.183 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 49.74 Mbit/s
95th percentile per-packet one-way delay: 46.016 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 46.648 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 45.395 ms
Loss rate: 0.60%

Run 1: Report of LEDBAT — Data Link

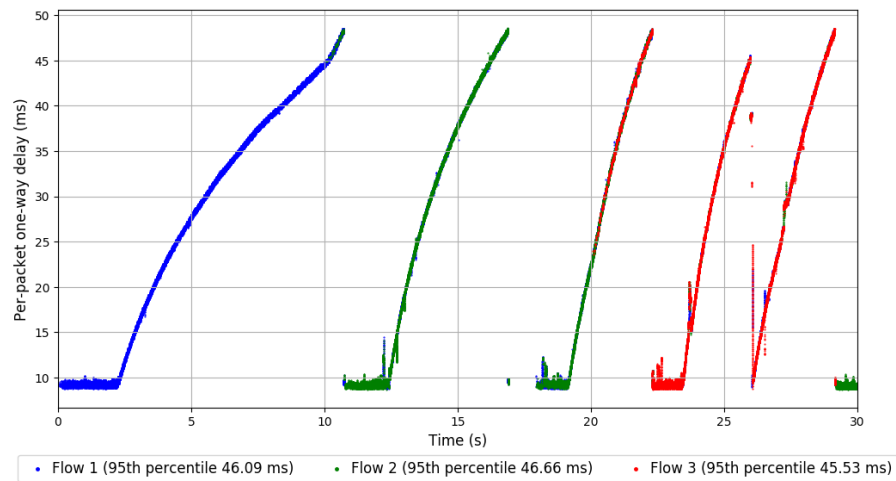
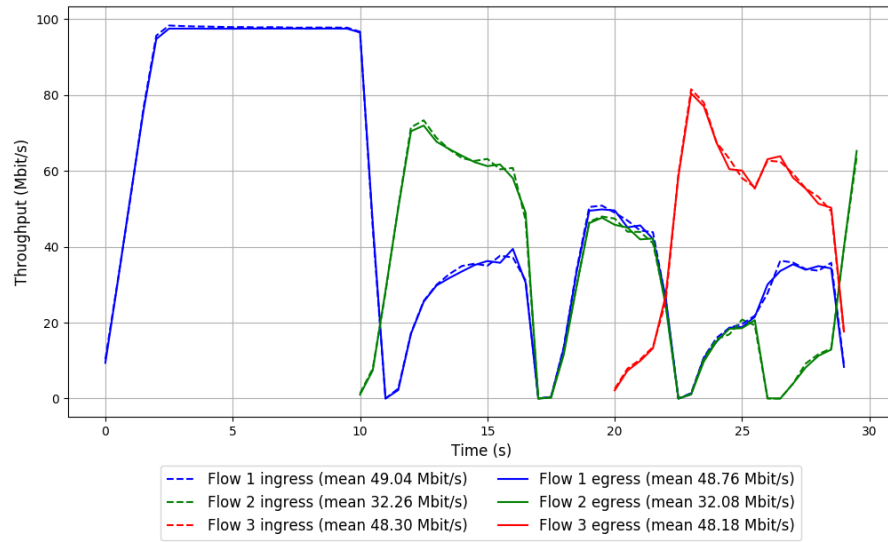


Run 2: Statistics of LEDBAT

Start at: 2018-03-21 03:48:04
End at: 2018-03-21 03:48:34
Local clock offset: -12.297 ms
Remote clock offset: -3.433 ms

Below is generated by plot.py at 2018-03-21 07:30:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.35 Mbit/s
95th percentile per-packet one-way delay: 46.245 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 46.088 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 32.08 Mbit/s
95th percentile per-packet one-way delay: 46.658 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 48.18 Mbit/s
95th percentile per-packet one-way delay: 45.532 ms
Loss rate: 0.41%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-21 04:09:38

End at: 2018-03-21 04:10:08

Local clock offset: -1.257 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-03-21 07:30:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.76 Mbit/s

95th percentile per-packet one-way delay: 47.333 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 46.827 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 47.809 ms

Loss rate: 0.47%

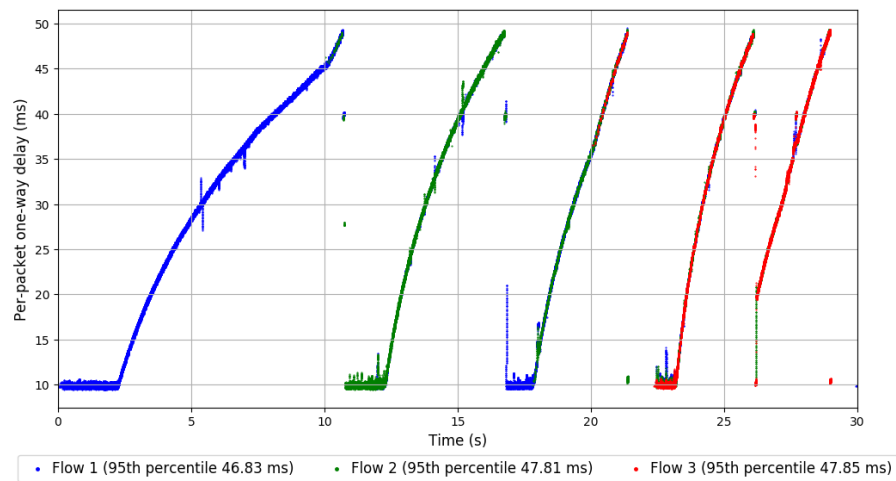
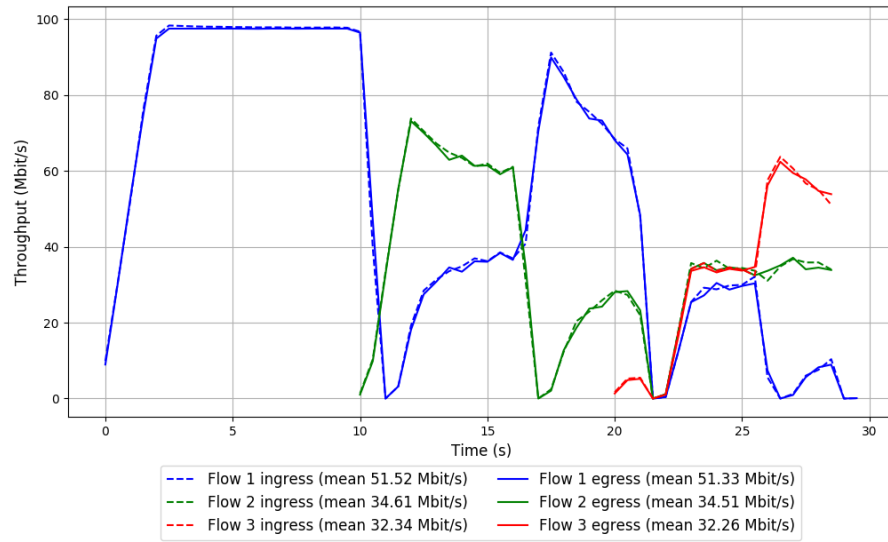
-- Flow 3:

Average throughput: 32.26 Mbit/s

95th percentile per-packet one-way delay: 47.852 ms

Loss rate: 0.52%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-21 04:31:24

End at: 2018-03-21 04:31:54

Local clock offset: 1.199 ms

Remote clock offset: 1.605 ms

Below is generated by plot.py at 2018-03-21 07:30:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.20 Mbit/s

95th percentile per-packet one-way delay: 42.976 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 45.40 Mbit/s

95th percentile per-packet one-way delay: 41.734 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 43.896 ms

Loss rate: 0.08%

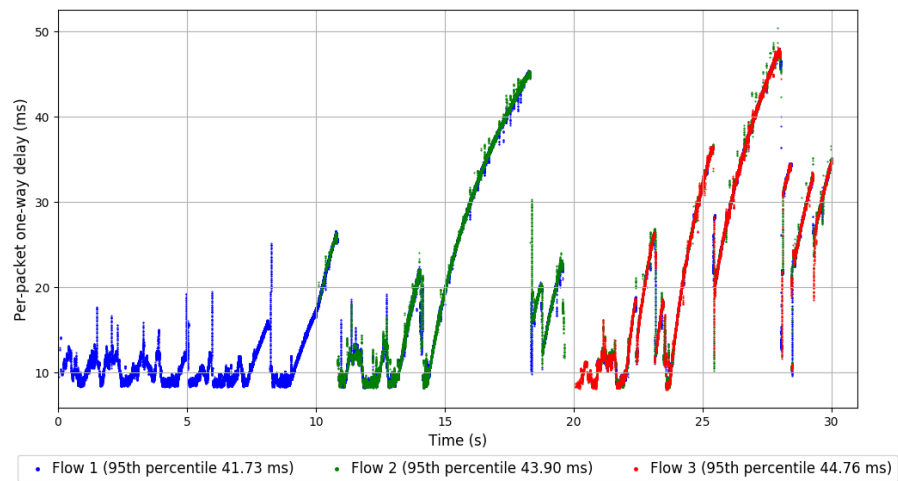
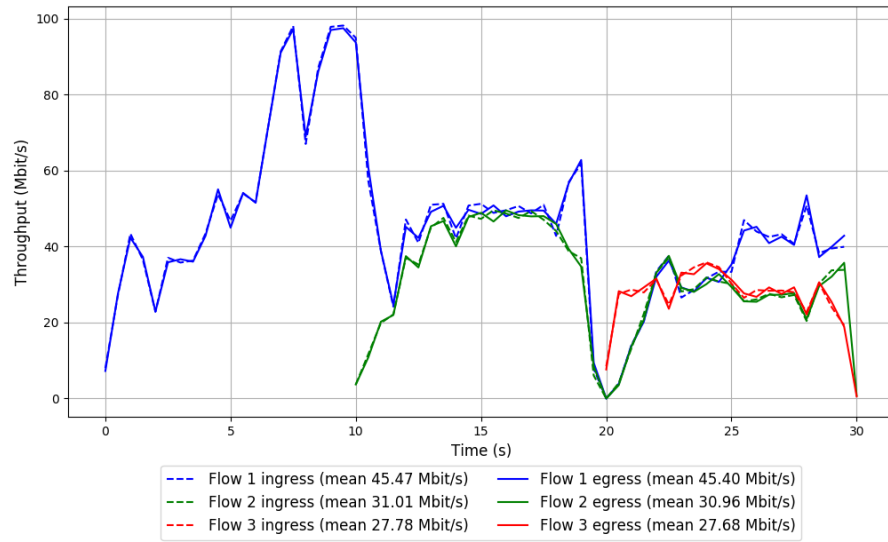
-- Flow 3:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 44.756 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-21 04:52:29

End at: 2018-03-21 04:52:59

Local clock offset: -3.778 ms

Remote clock offset: 2.871 ms

Below is generated by plot.py at 2018-03-21 07:30:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 46.594 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 46.367 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 46.898 ms

Loss rate: 0.40%

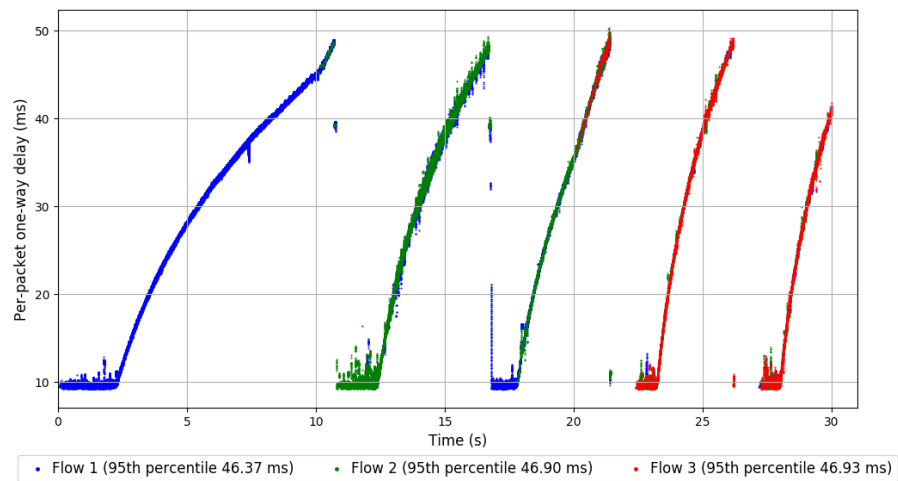
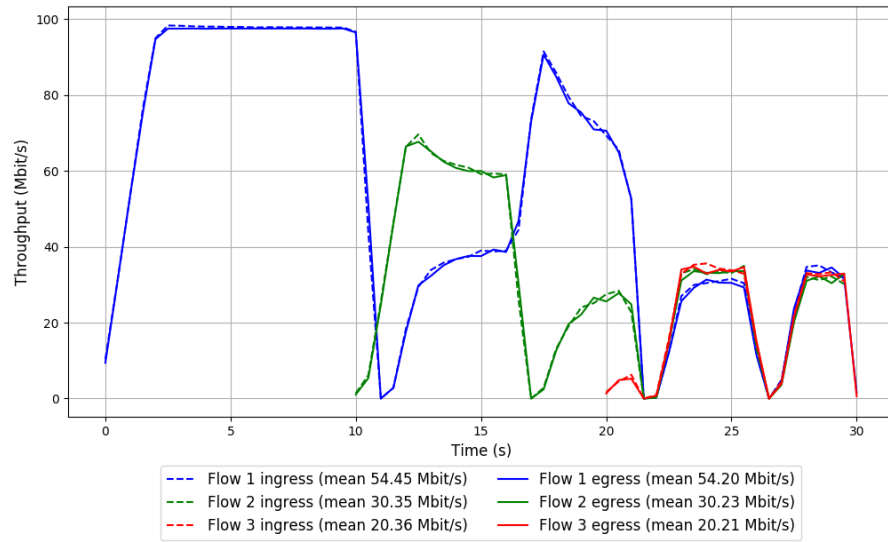
-- Flow 3:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 46.928 ms

Loss rate: 0.65%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-21 05:13:32

End at: 2018-03-21 05:14:02

Local clock offset: -0.357 ms

Remote clock offset: 1.842 ms

Below is generated by plot.py at 2018-03-21 07:30:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.47 Mbit/s

95th percentile per-packet one-way delay: 47.407 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 50.02 Mbit/s

95th percentile per-packet one-way delay: 47.130 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 47.609 ms

Loss rate: 0.76%

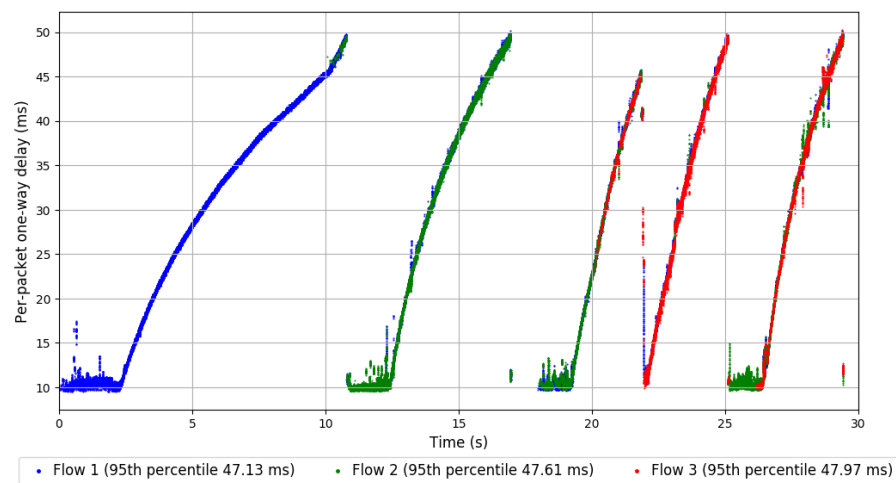
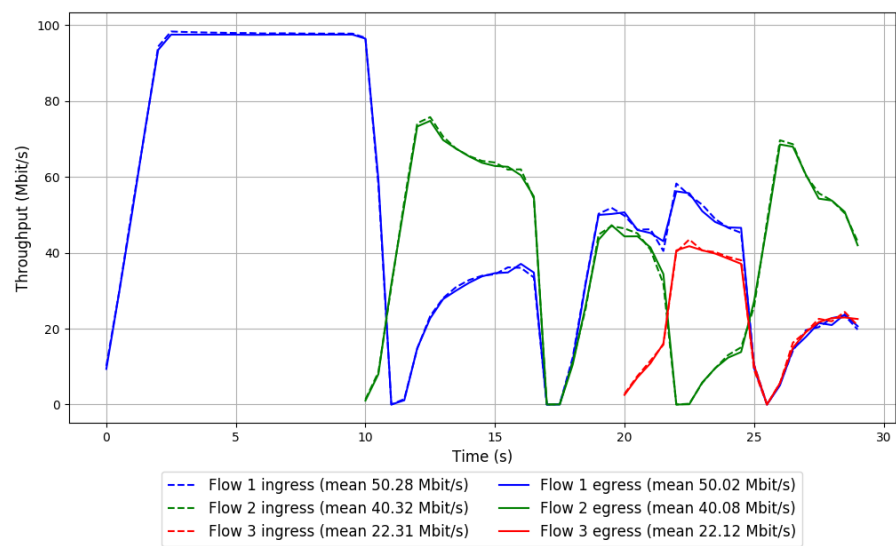
-- Flow 3:

Average throughput: 22.12 Mbit/s

95th percentile per-packet one-way delay: 47.968 ms

Loss rate: 0.97%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-21 05:34:41

End at: 2018-03-21 05:35:11

Local clock offset: 0.92 ms

Remote clock offset: 1.994 ms

Below is generated by plot.py at 2018-03-21 07:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.55 Mbit/s

95th percentile per-packet one-way delay: 50.075 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 52.36 Mbit/s

95th percentile per-packet one-way delay: 49.700 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 25.31 Mbit/s

95th percentile per-packet one-way delay: 50.601 ms

Loss rate: 1.15%

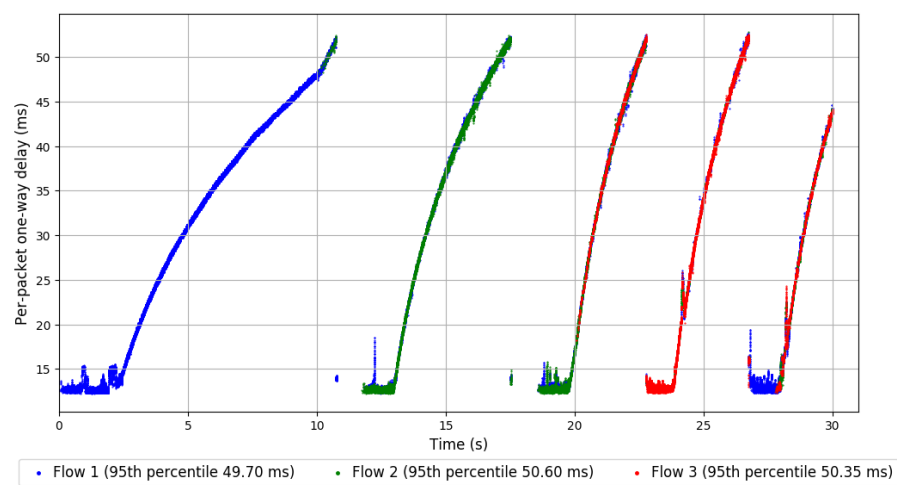
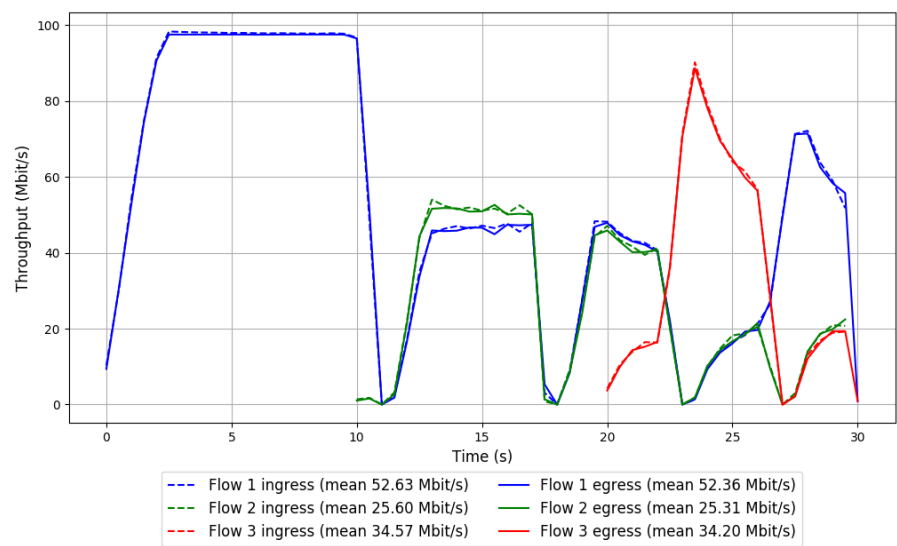
-- Flow 3:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 50.349 ms

Loss rate: 0.82%

Run 7: Report of LEDBAT — Data Link

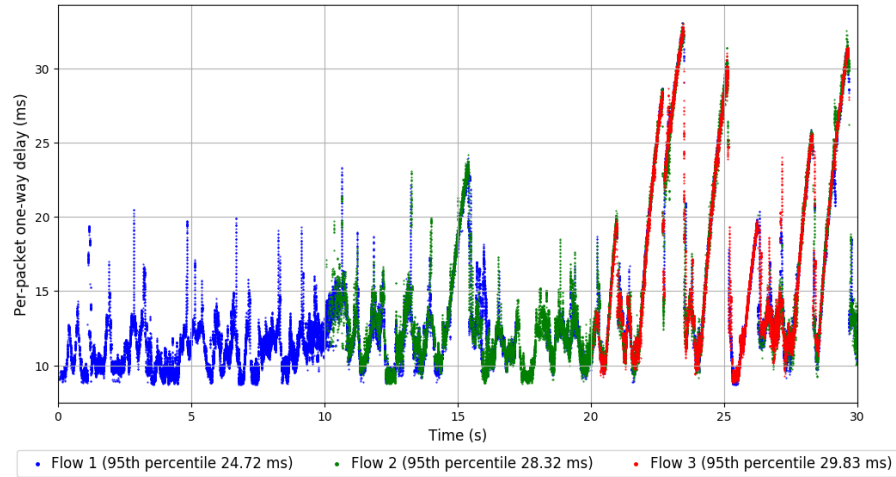
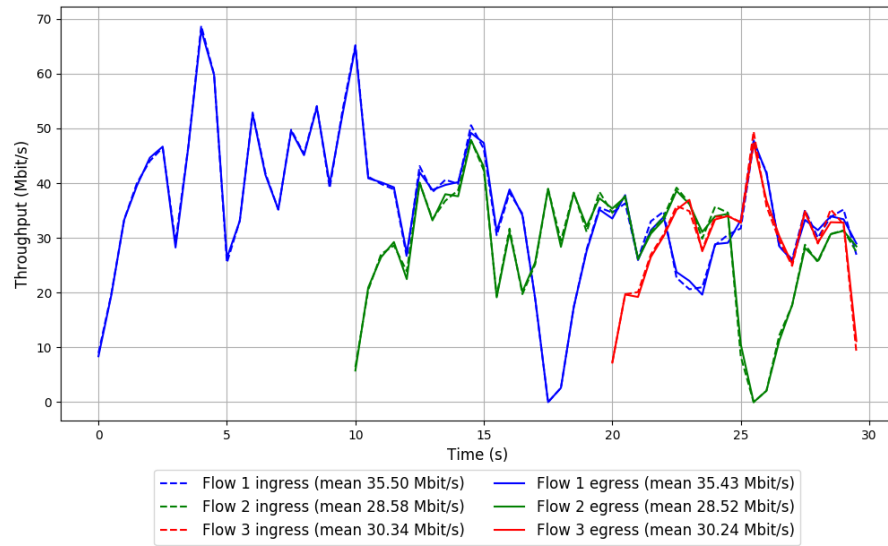


Run 8: Statistics of LEDBAT

Start at: 2018-03-21 05:56:05
End at: 2018-03-21 05:56:35
Local clock offset: -3.879 ms
Remote clock offset: -1.535 ms

Below is generated by plot.py at 2018-03-21 07:31:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 27.614 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 35.43 Mbit/s
95th percentile per-packet one-way delay: 24.723 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 28.52 Mbit/s
95th percentile per-packet one-way delay: 28.315 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 29.833 ms
Loss rate: 0.15%

Run 8: Report of LEDBAT — Data Link

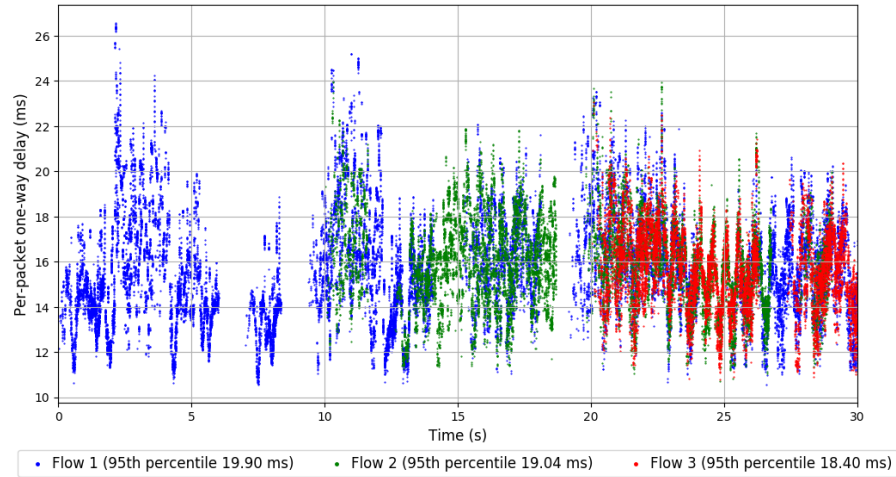
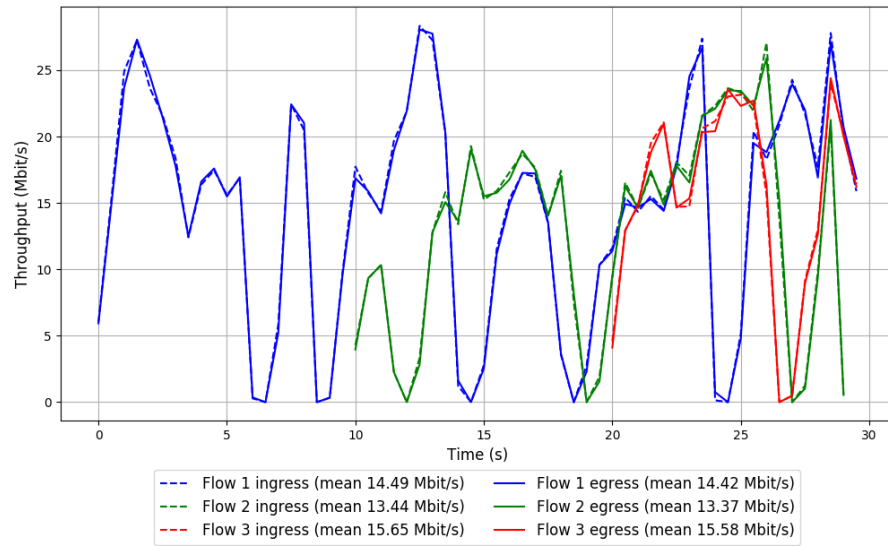


Run 9: Statistics of LEDBAT

Start at: 2018-03-21 06:17:33
End at: 2018-03-21 06:18:03
Local clock offset: -4.334 ms
Remote clock offset: -1.911 ms

Below is generated by plot.py at 2018-03-21 07:31:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 19.333 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 14.42 Mbit/s
95th percentile per-packet one-way delay: 19.899 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 19.037 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 15.58 Mbit/s
95th percentile per-packet one-way delay: 18.400 ms
Loss rate: 0.46%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-21 06:38:43

End at: 2018-03-21 06:39:13

Local clock offset: -2.279 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-03-21 07:31:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.53 Mbit/s

95th percentile per-packet one-way delay: 47.651 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 47.187 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 48.203 ms

Loss rate: 0.90%

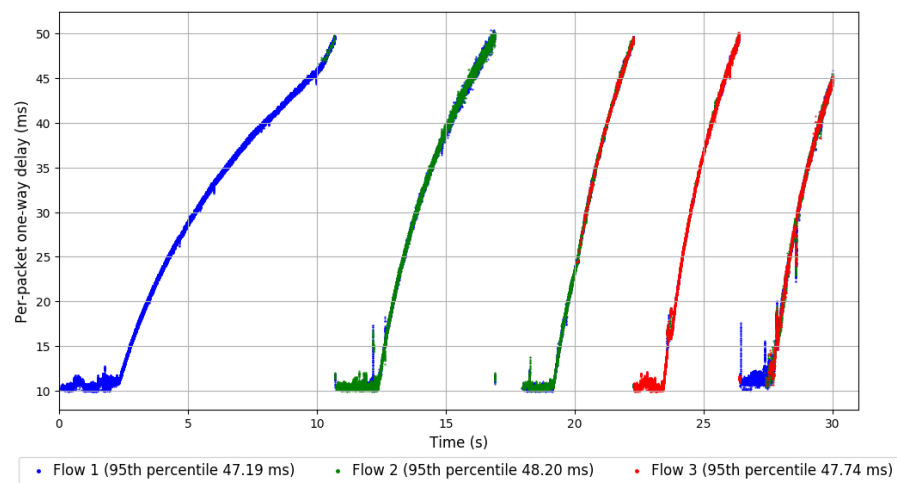
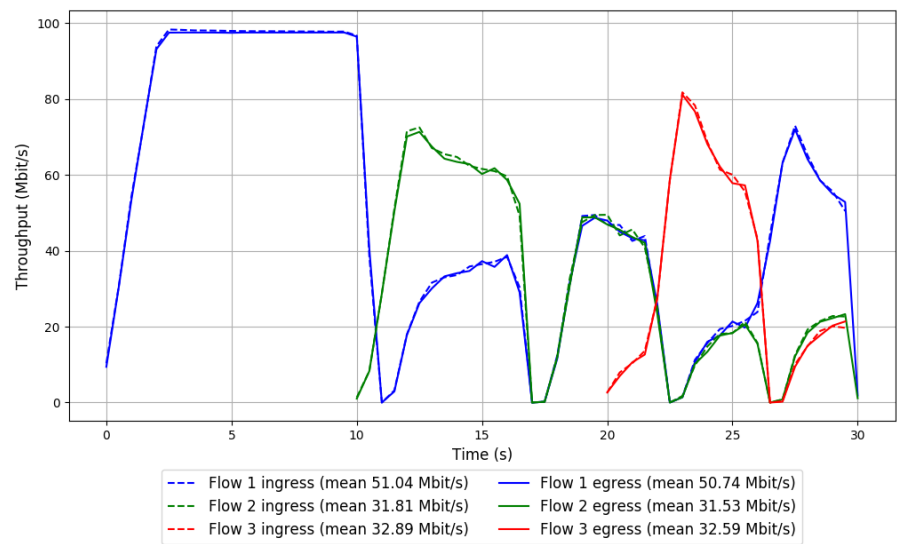
-- Flow 3:

Average throughput: 32.59 Mbit/s

95th percentile per-packet one-way delay: 47.740 ms

Loss rate: 0.70%

Run 10: Report of LEDBAT — Data Link

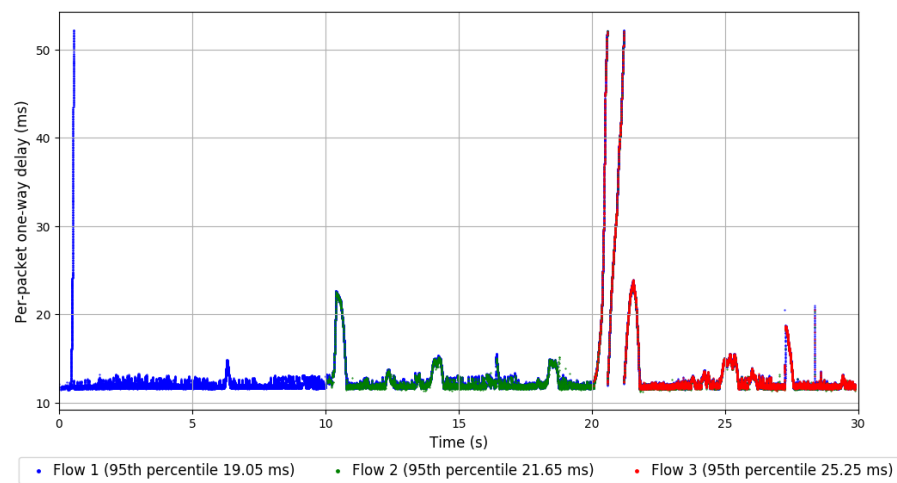
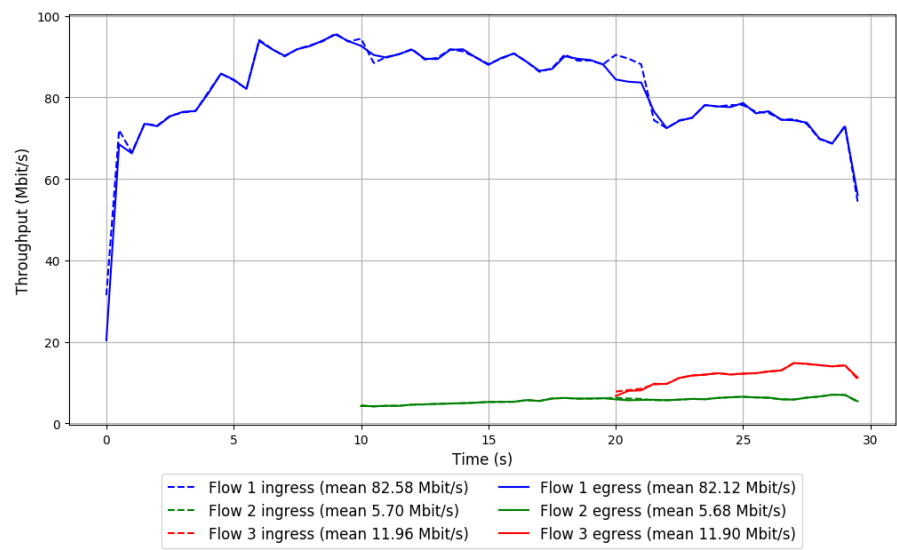


Run 1: Statistics of PCC

Start at: 2018-03-21 03:21:03
End at: 2018-03-21 03:21:33
Local clock offset: -12.852 ms
Remote clock offset: -5.946 ms

Below is generated by plot.py at 2018-03-21 07:31:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.82 Mbit/s
95th percentile per-packet one-way delay: 19.694 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 82.12 Mbit/s
95th percentile per-packet one-way delay: 19.050 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 21.652 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 25.251 ms
Loss rate: 0.55%

Run 1: Report of PCC — Data Link

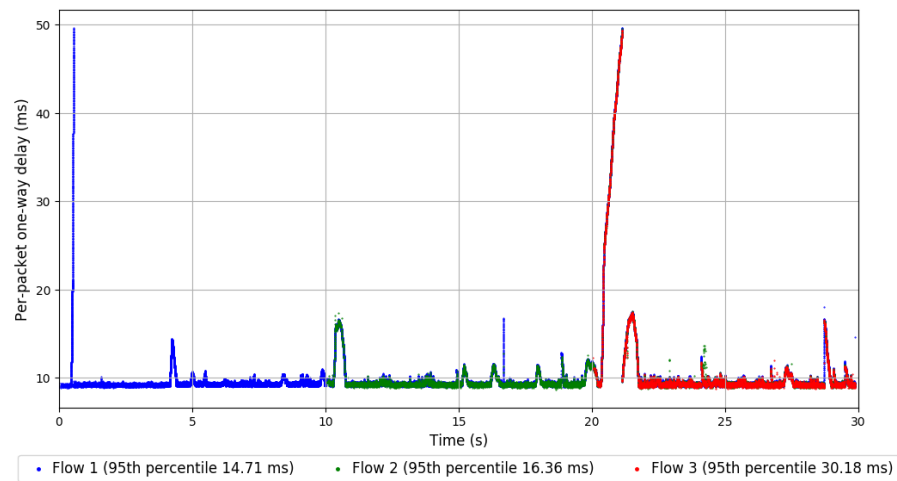
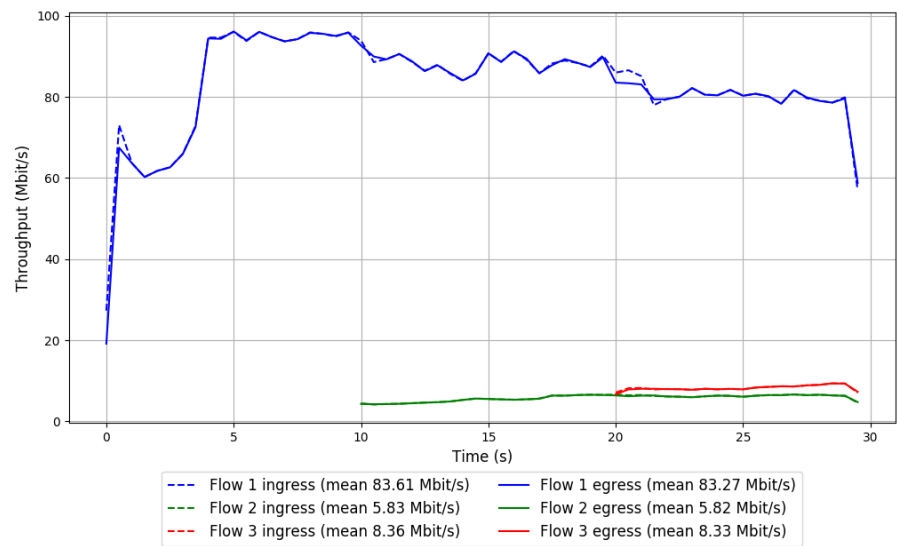


Run 2: Statistics of PCC

Start at: 2018-03-21 03:42:07
End at: 2018-03-21 03:42:37
Local clock offset: -11.587 ms
Remote clock offset: -3.306 ms

Below is generated by plot.py at 2018-03-21 07:32:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 15.333 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 83.27 Mbit/s
95th percentile per-packet one-way delay: 14.711 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 16.355 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 30.176 ms
Loss rate: 0.39%

Run 2: Report of PCC — Data Link

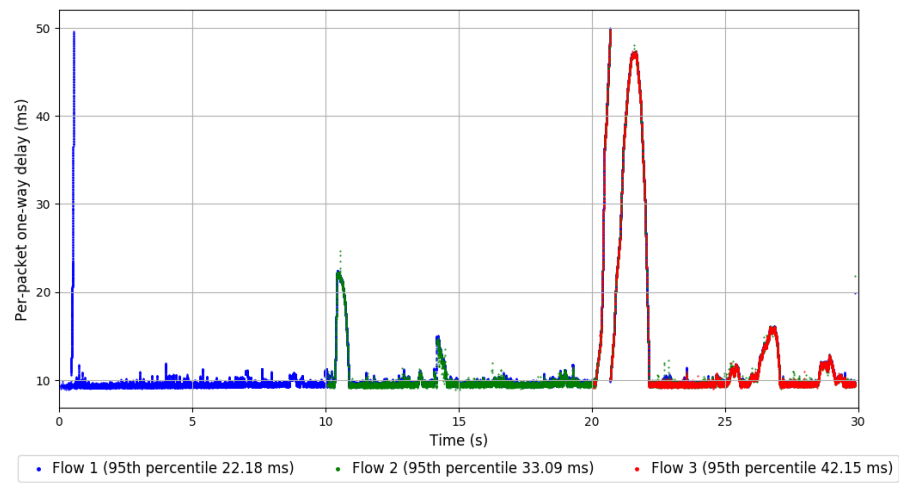
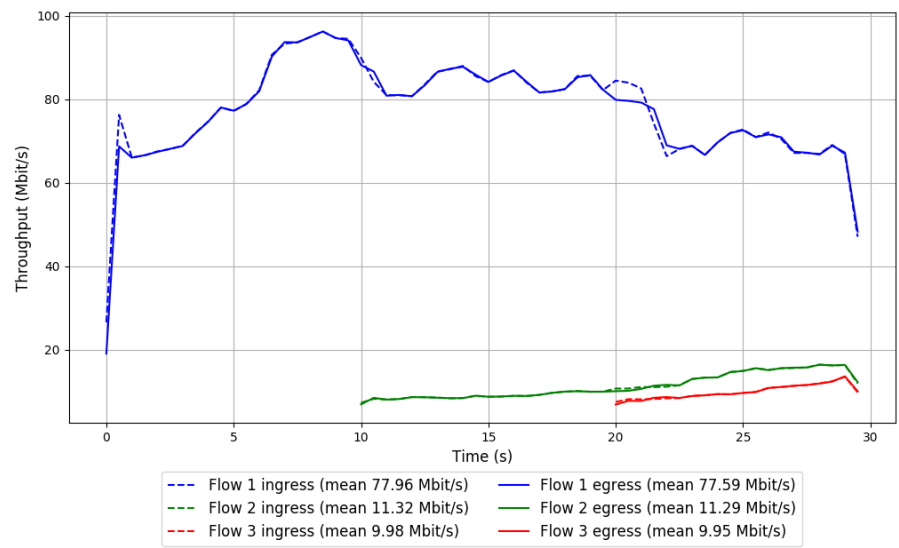


Run 3: Statistics of PCC

Start at: 2018-03-21 04:03:44
End at: 2018-03-21 04:04:14
Local clock offset: -3.057 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2018-03-21 07:32:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 24.431 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 77.59 Mbit/s
95th percentile per-packet one-way delay: 22.184 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 33.086 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 9.95 Mbit/s
95th percentile per-packet one-way delay: 42.148 ms
Loss rate: 0.33%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-21 04:25:24

End at: 2018-03-21 04:25:54

Local clock offset: 0.984 ms

Remote clock offset: 1.935 ms

Below is generated by plot.py at 2018-03-21 07:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 50.342 ms

Loss rate: 24.59%

-- Flow 1:

Average throughput: 54.02 Mbit/s

95th percentile per-packet one-way delay: 49.592 ms

Loss rate: 20.48%

-- Flow 2:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 51.075 ms

Loss rate: 30.64%

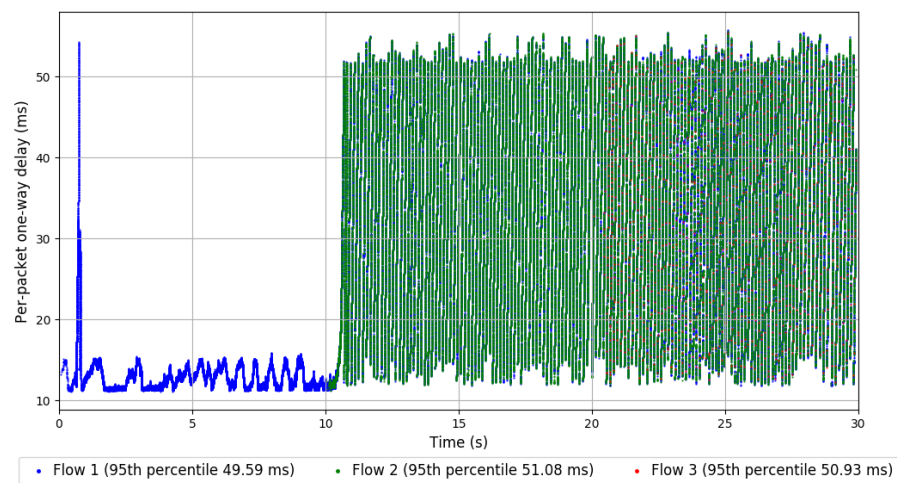
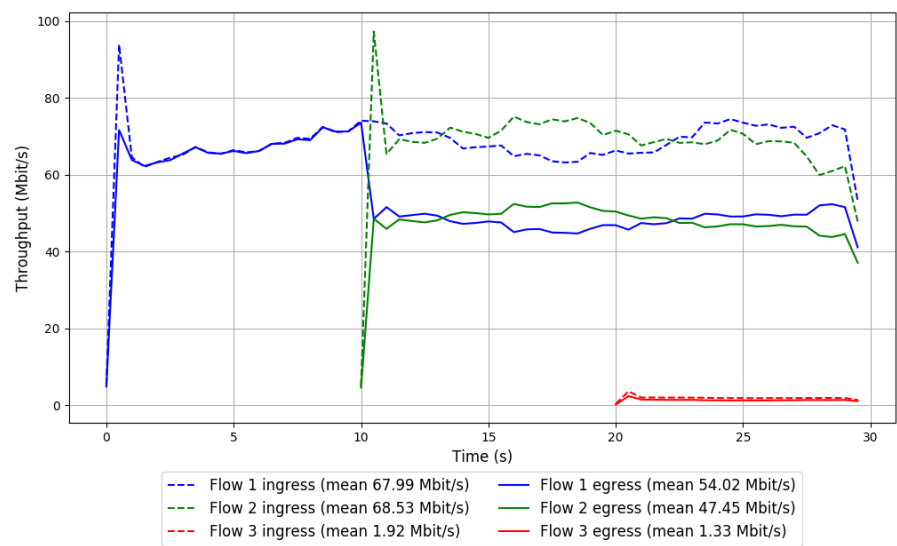
-- Flow 3:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 30.91%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-21 04:46:36

End at: 2018-03-21 04:47:06

Local clock offset: -6.103 ms

Remote clock offset: 2.177 ms

Below is generated by plot.py at 2018-03-21 07:32:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.92 Mbit/s

95th percentile per-packet one-way delay: 30.067 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 29.903 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 31.836 ms

Loss rate: 0.15%

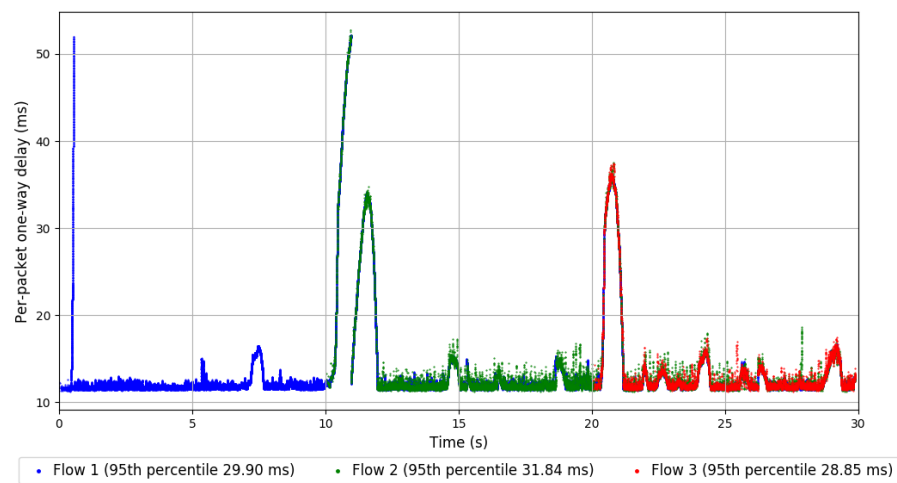
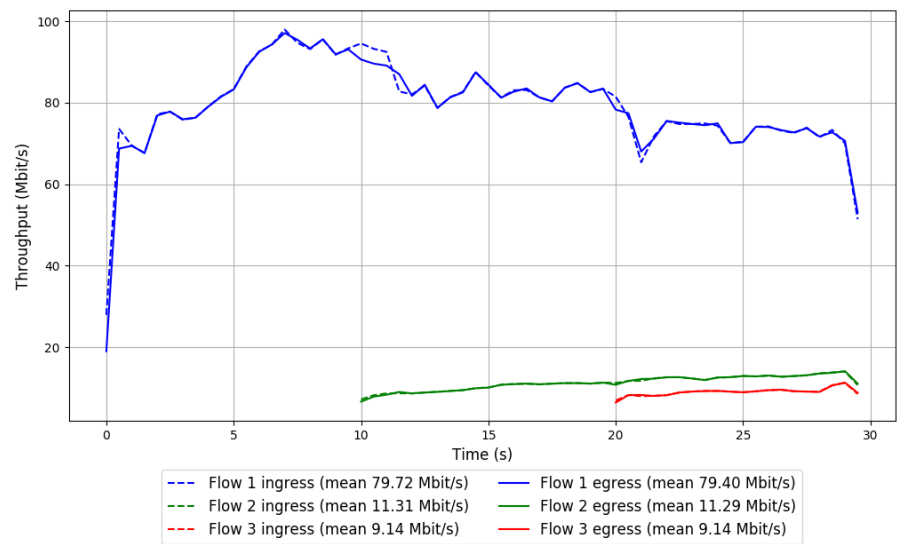
-- Flow 3:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 28.850 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-21 05:07:40

End at: 2018-03-21 05:08:10

Local clock offset: -1.511 ms

Remote clock offset: 2.813 ms

Below is generated by plot.py at 2018-03-21 07:32:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 18.605 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 18.445 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 18.32 Mbit/s

95th percentile per-packet one-way delay: 19.832 ms

Loss rate: 0.54%

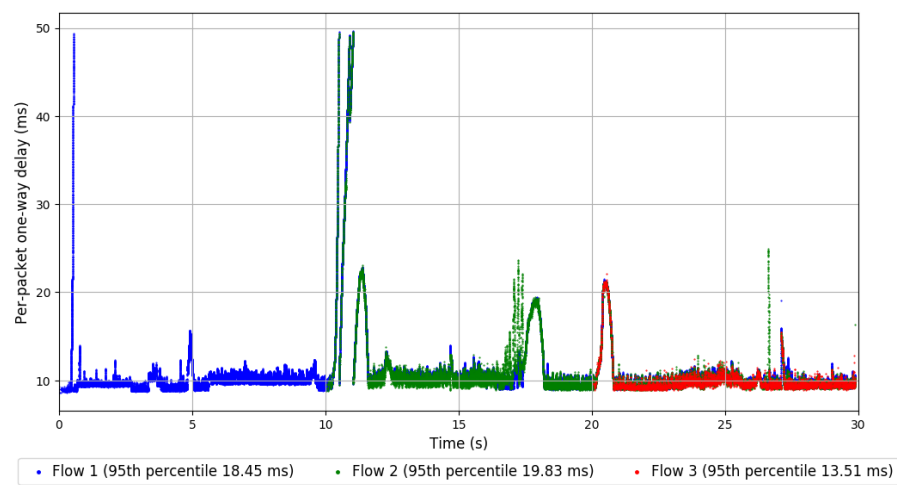
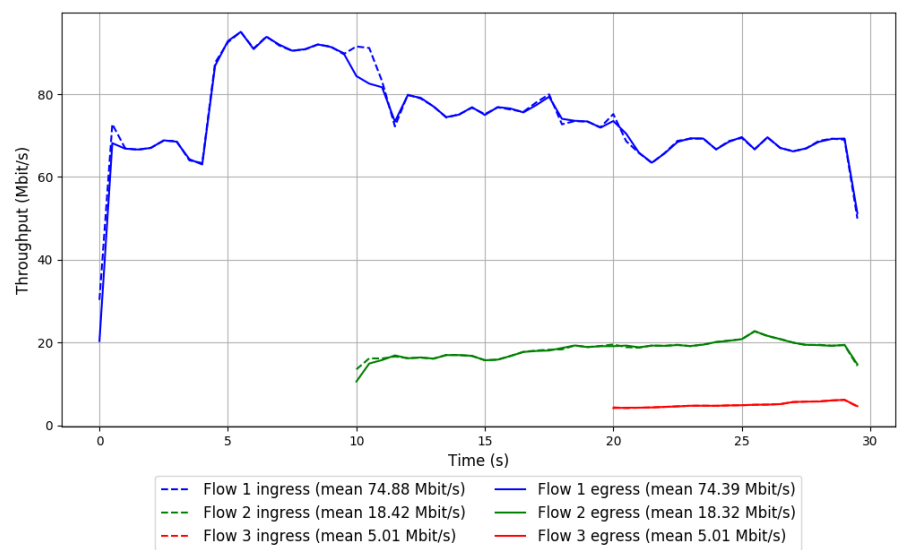
-- Flow 3:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 13.509 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-21 05:28:53

End at: 2018-03-21 05:29:23

Local clock offset: 2.915 ms

Remote clock offset: 1.44 ms

Below is generated by plot.py at 2018-03-21 07:32:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.67 Mbit/s

95th percentile per-packet one-way delay: 21.693 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 81.83 Mbit/s

95th percentile per-packet one-way delay: 21.586 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 30.633 ms

Loss rate: 0.00%

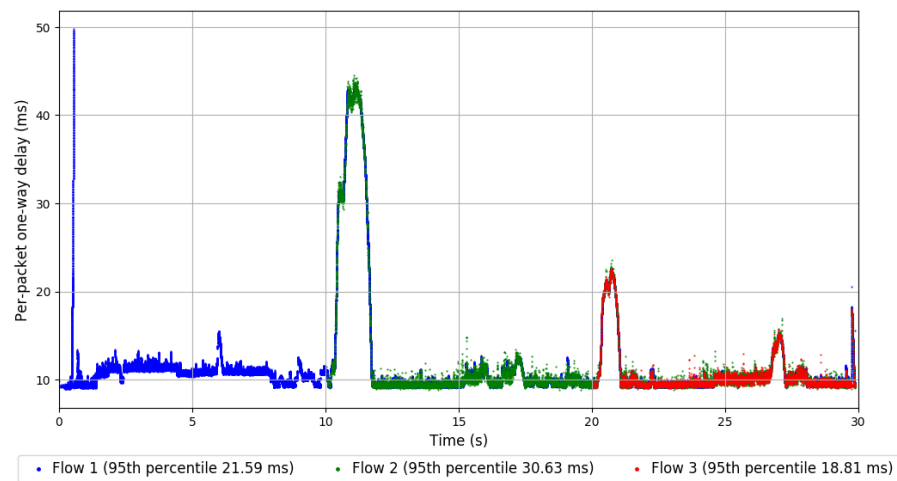
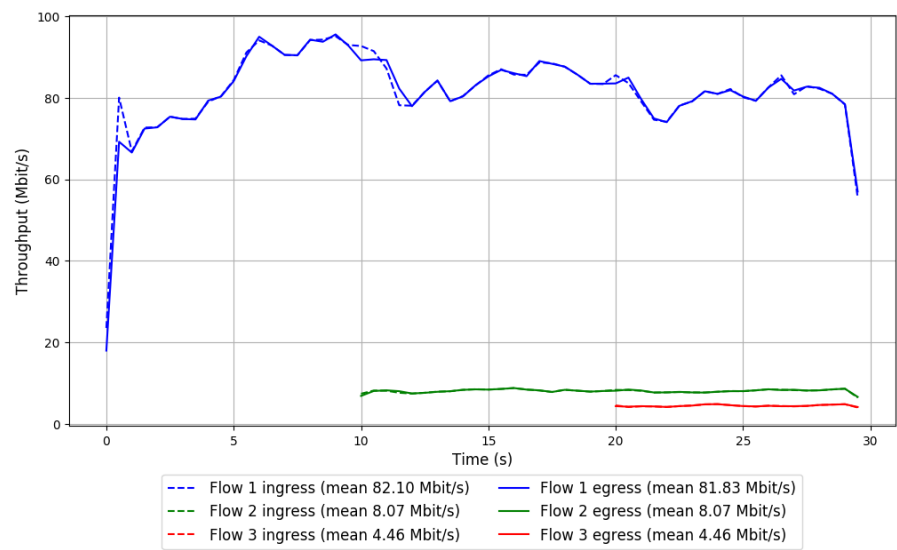
-- Flow 3:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 18.811 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-21 05:50:06

End at: 2018-03-21 05:50:36

Local clock offset: -5.146 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-03-21 07:33:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.04 Mbit/s

95th percentile per-packet one-way delay: 29.534 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 76.06 Mbit/s

95th percentile per-packet one-way delay: 29.698 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 8.94 Mbit/s

95th percentile per-packet one-way delay: 32.973 ms

Loss rate: 0.25%

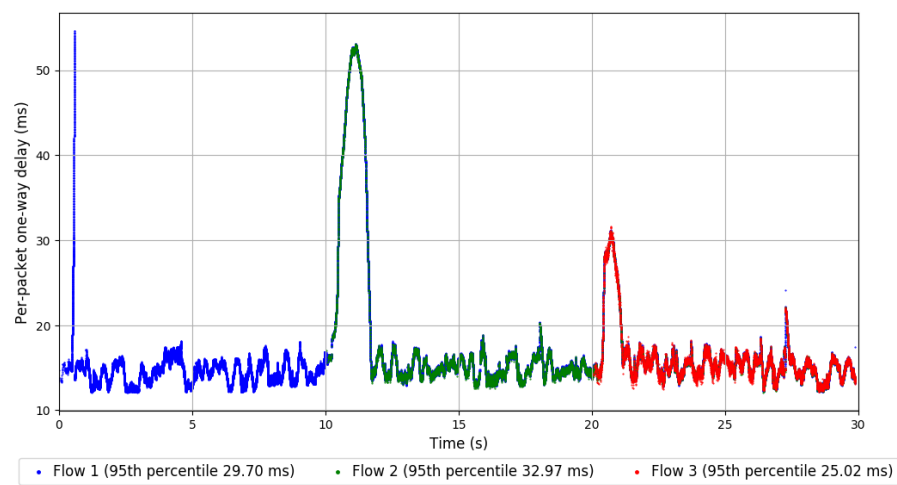
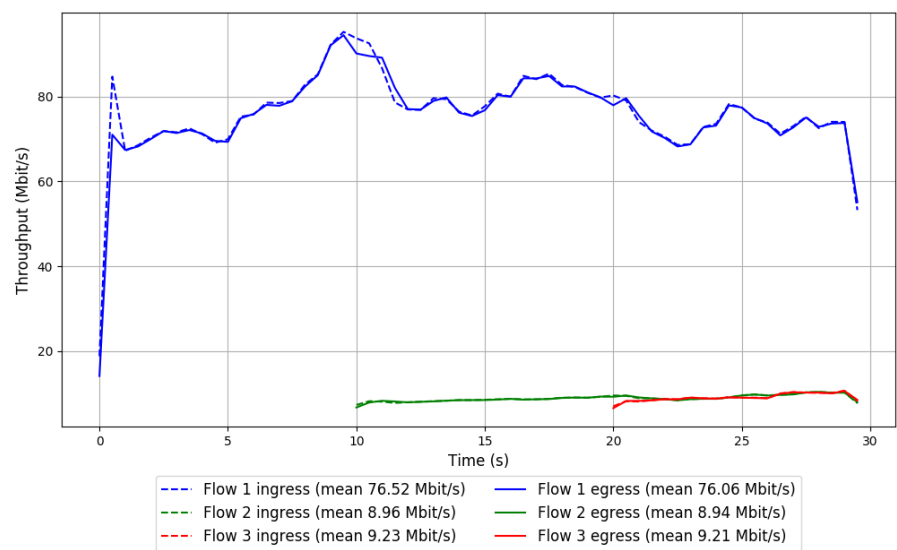
-- Flow 3:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 25.022 ms

Loss rate: 0.20%

Run 8: Report of PCC — Data Link

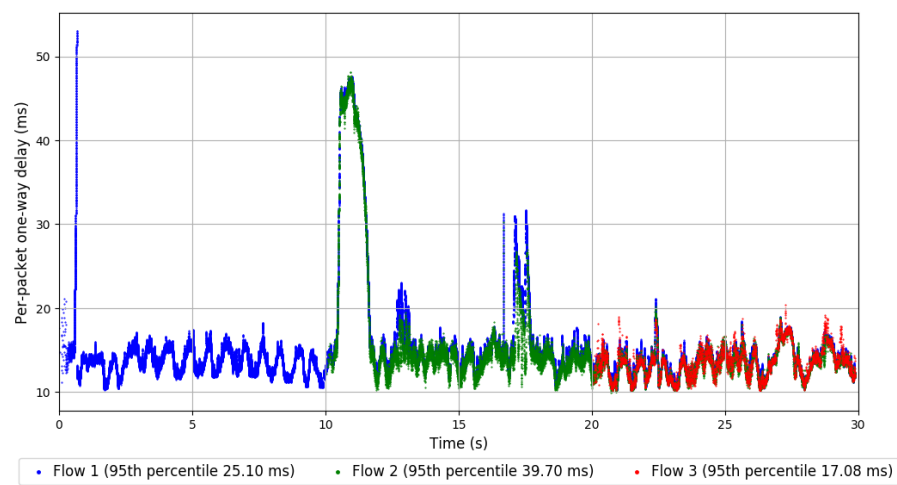
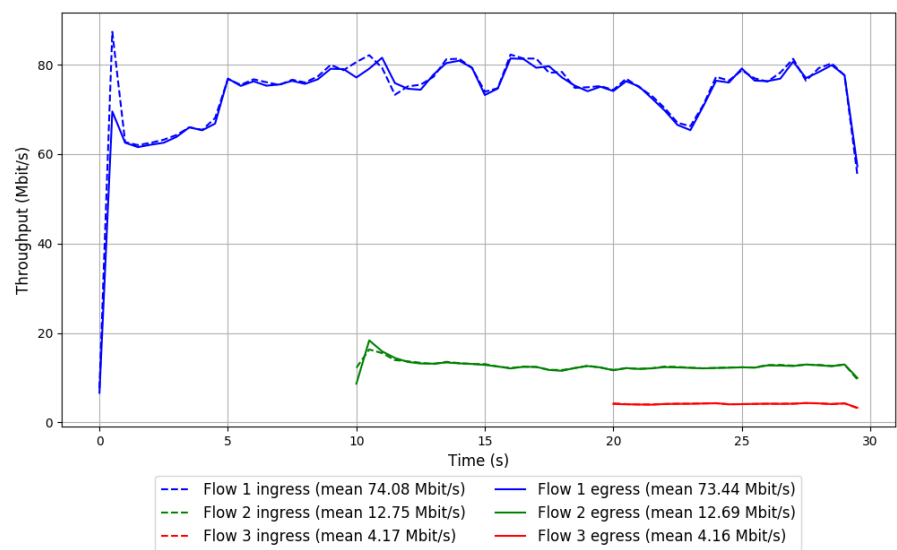


Run 9: Statistics of PCC

Start at: 2018-03-21 06:11:38
End at: 2018-03-21 06:12:08
Local clock offset: -5.774 ms
Remote clock offset: -2.231 ms

Below is generated by plot.py at 2018-03-21 07:33:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.26 Mbit/s
95th percentile per-packet one-way delay: 25.829 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 73.44 Mbit/s
95th percentile per-packet one-way delay: 25.099 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 39.701 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 17.082 ms
Loss rate: 0.38%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-21 06:32:47

End at: 2018-03-21 06:33:17

Local clock offset: -1.501 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-03-21 07:33:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 16.739 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 61.22 Mbit/s

95th percentile per-packet one-way delay: 15.793 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 18.960 ms

Loss rate: 0.22%

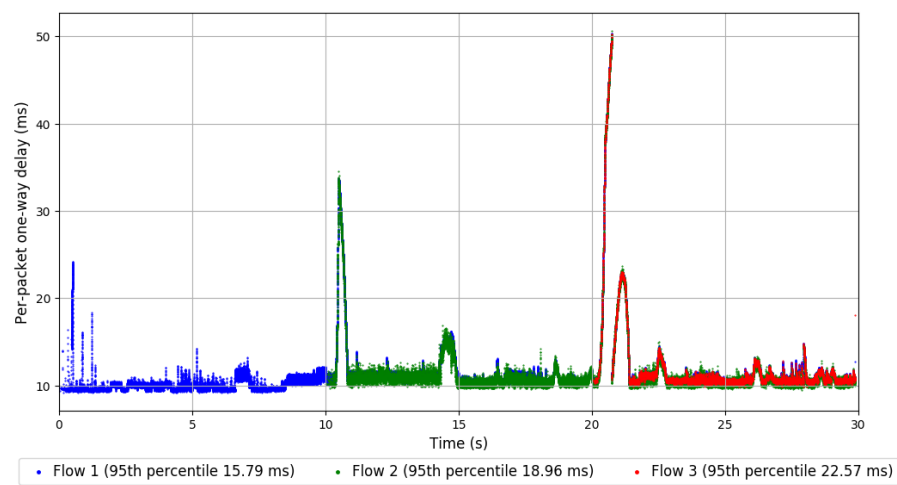
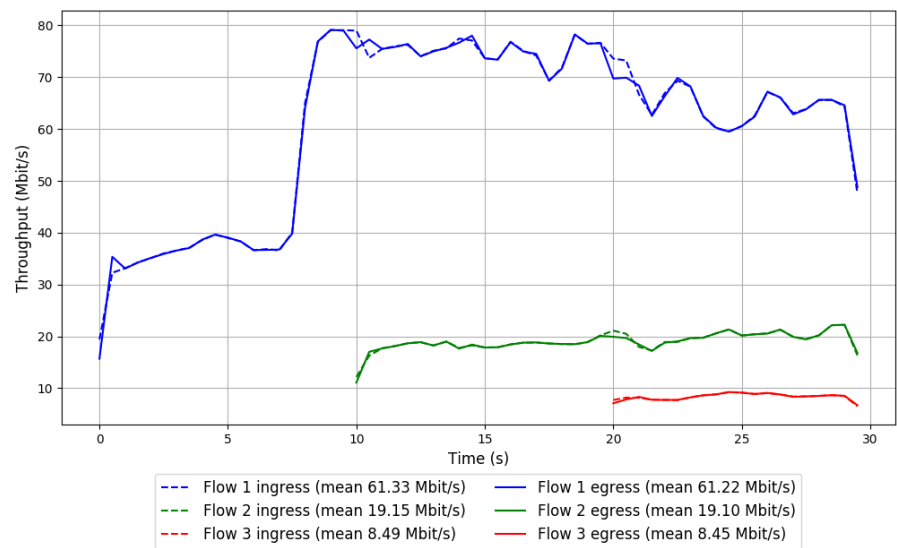
-- Flow 3:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 22.568 ms

Loss rate: 0.39%

Run 10: Report of PCC — Data Link

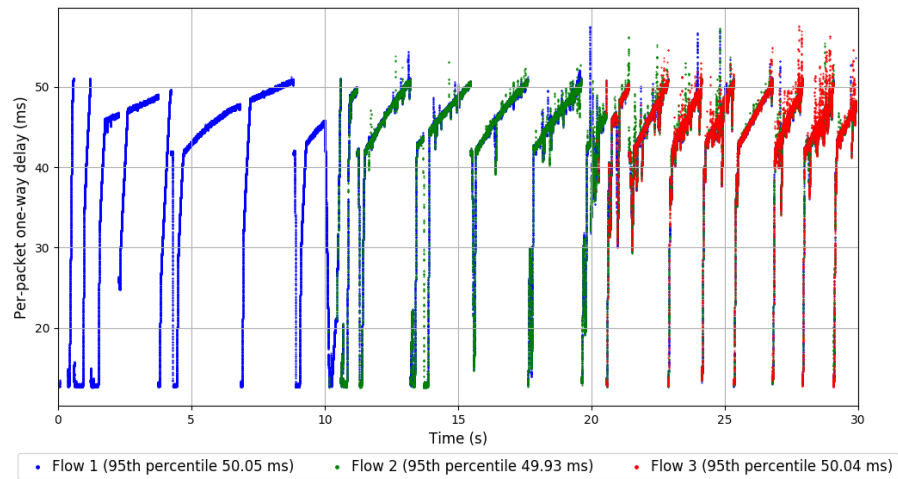
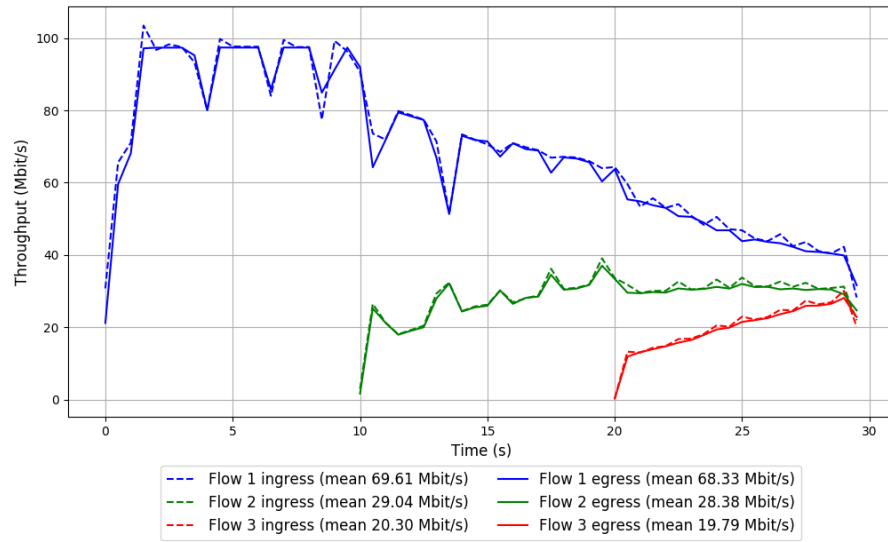


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-21 03:36:15
End at: 2018-03-21 03:36:45
Local clock offset: -14.625 ms
Remote clock offset: -3.477 ms

Below is generated by plot.py at 2018-03-21 07:33:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 50.025 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 68.33 Mbit/s
95th percentile per-packet one-way delay: 50.051 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 28.38 Mbit/s
95th percentile per-packet one-way delay: 49.931 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 19.79 Mbit/s
95th percentile per-packet one-way delay: 50.043 ms
Loss rate: 2.42%

Run 1: Report of QUIC Cubic — Data Link

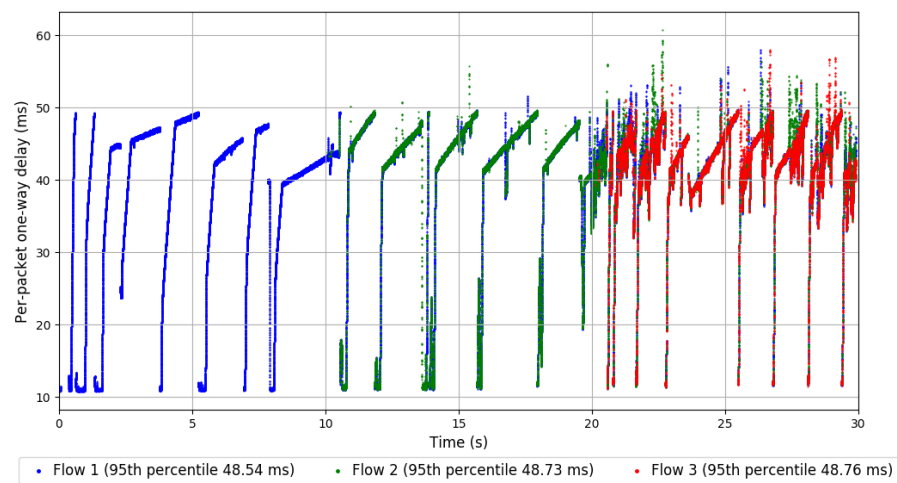
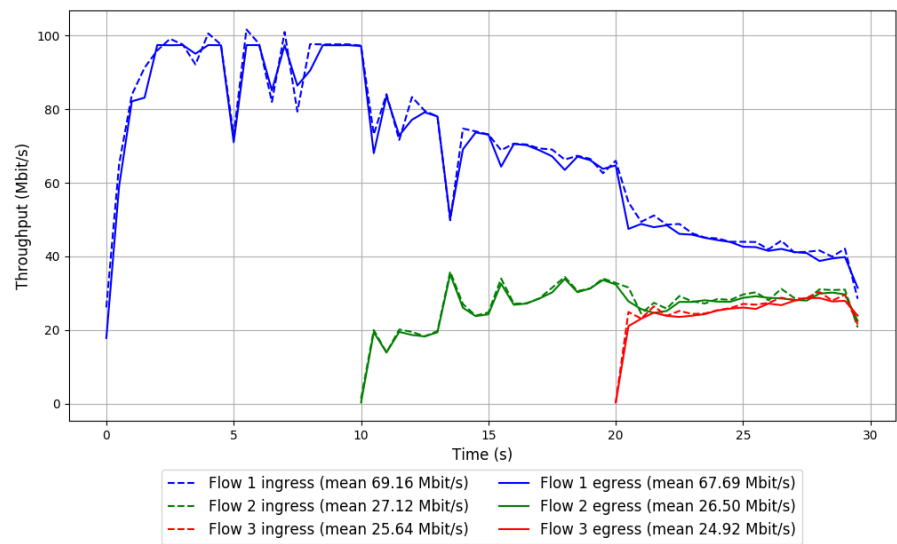


Run 2: Statistics of QUIC Cubic

Start at: 2018-03-21 03:57:38
End at: 2018-03-21 03:58:08
Local clock offset: -9.917 ms
Remote clock offset: -2.337 ms

Below is generated by plot.py at 2018-03-21 07:33:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.40 Mbit/s
95th percentile per-packet one-way delay: 48.603 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 48.543 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 48.725 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 48.758 ms
Loss rate: 2.78%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-21 04:19:12

End at: 2018-03-21 04:19:42

Local clock offset: -1.549 ms

Remote clock offset: 0.752 ms

Below is generated by plot.py at 2018-03-21 07:33:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.41 Mbit/s

95th percentile per-packet one-way delay: 48.631 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 72.91 Mbit/s

95th percentile per-packet one-way delay: 48.653 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 48.452 ms

Loss rate: 1.15%

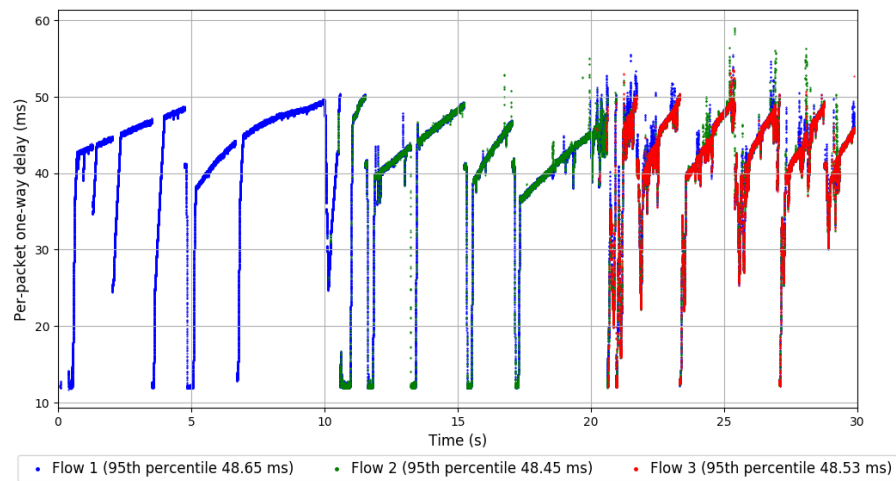
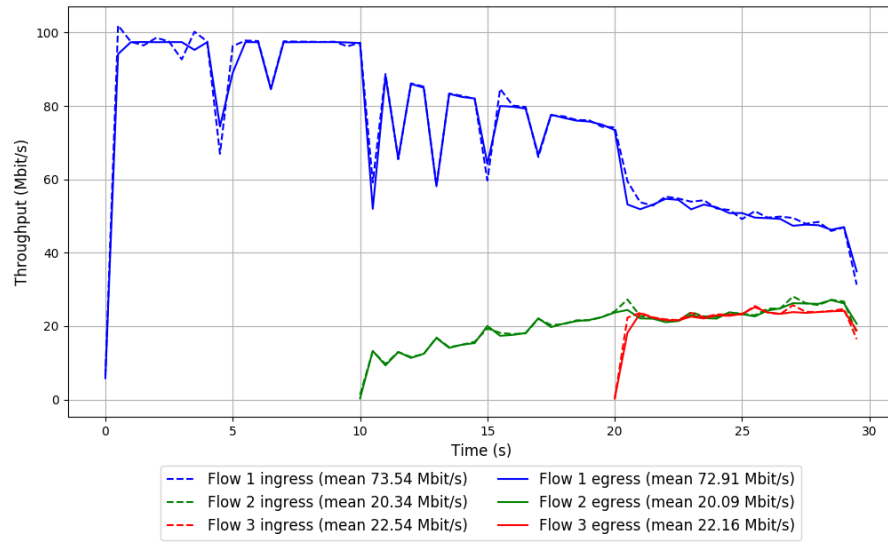
-- Flow 3:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 48.533 ms

Loss rate: 1.62%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-21 04:40:43

End at: 2018-03-21 04:41:13

Local clock offset: -4.209 ms

Remote clock offset: 2.326 ms

Below is generated by plot.py at 2018-03-21 07:33:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 48.043 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 47.906 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 29.92 Mbit/s

95th percentile per-packet one-way delay: 48.316 ms

Loss rate: 2.59%

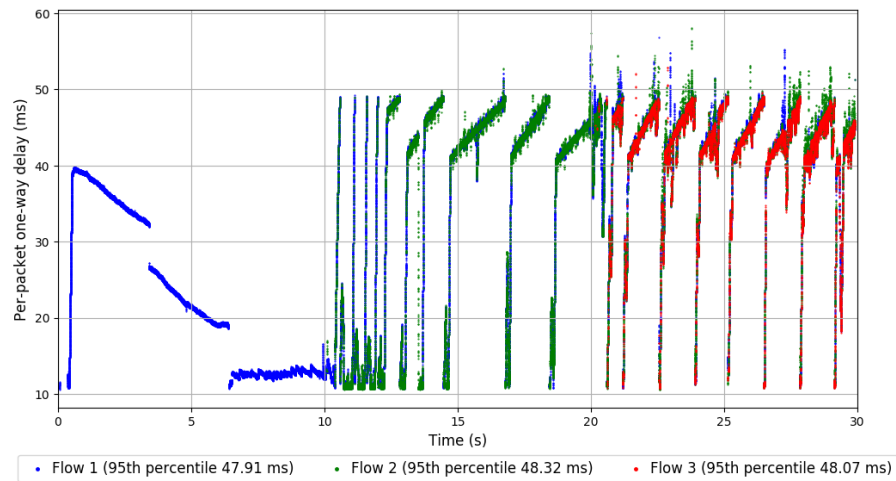
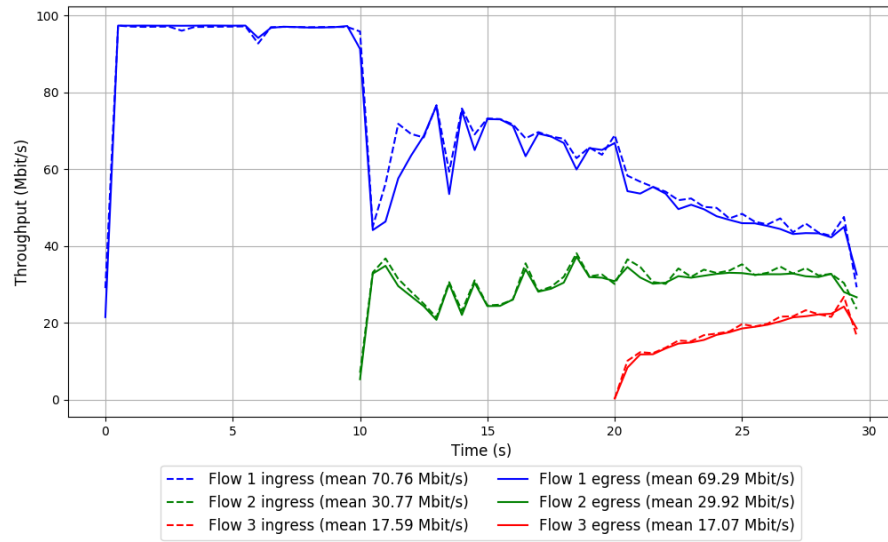
-- Flow 3:

Average throughput: 17.07 Mbit/s

95th percentile per-packet one-way delay: 48.070 ms

Loss rate: 2.96%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-21 05:01:48

End at: 2018-03-21 05:02:18

Local clock offset: -6.612 ms

Remote clock offset: 2.919 ms

Below is generated by plot.py at 2018-03-21 07:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.12 Mbit/s

95th percentile per-packet one-way delay: 48.901 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 56.77 Mbit/s

95th percentile per-packet one-way delay: 48.705 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 49.139 ms

Loss rate: 2.23%

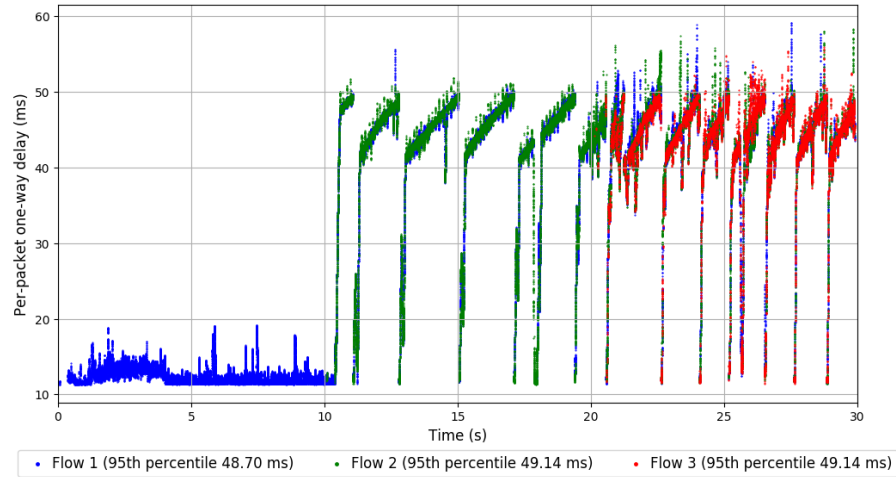
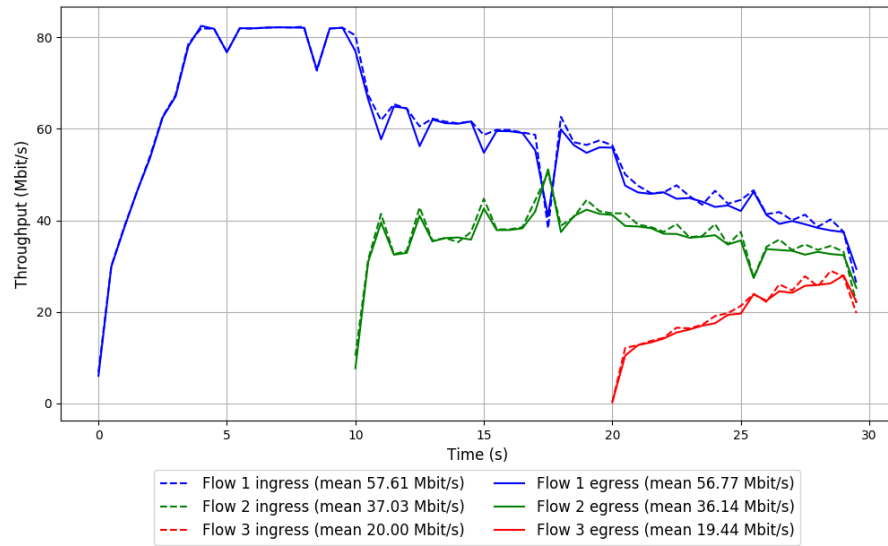
-- Flow 3:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 49.139 ms

Loss rate: 2.80%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-21 05:22:59

End at: 2018-03-21 05:23:29

Local clock offset: -0.949 ms

Remote clock offset: 0.967 ms

Below is generated by plot.py at 2018-03-21 07:34:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 49.030 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 68.63 Mbit/s

95th percentile per-packet one-way delay: 49.007 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 49.097 ms

Loss rate: 2.11%

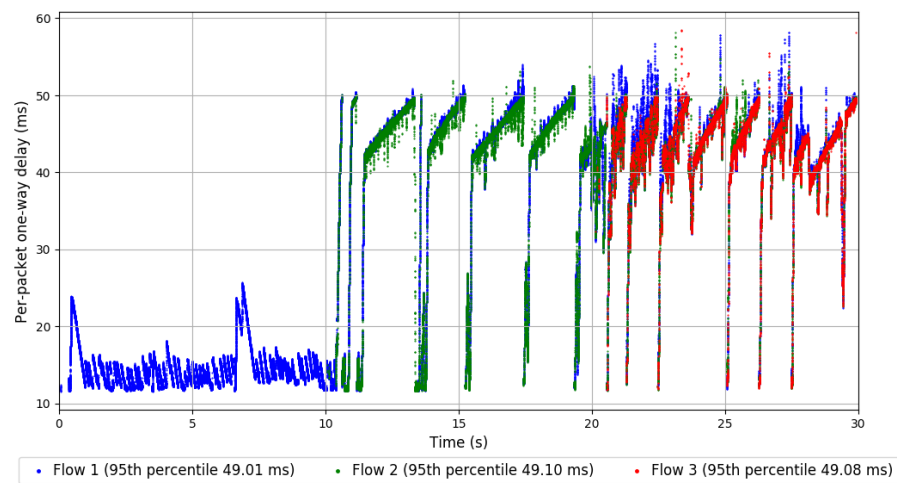
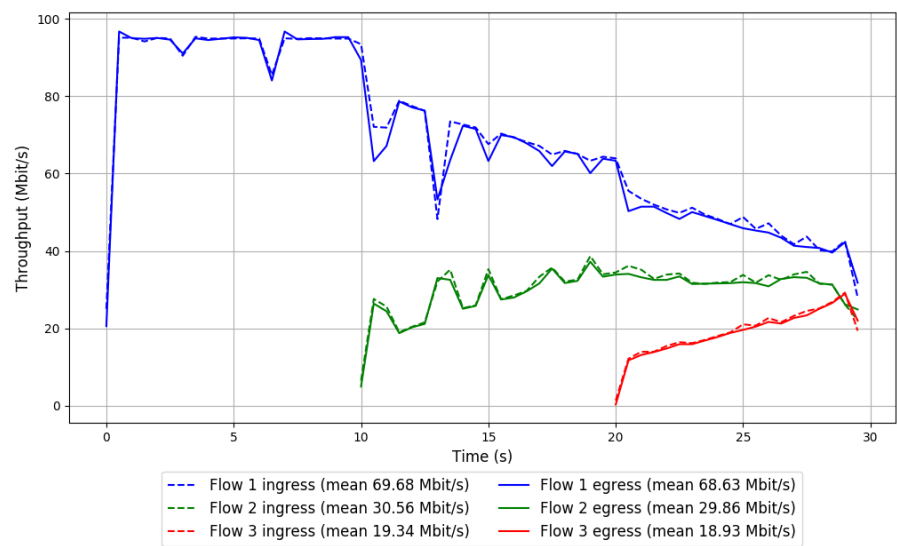
-- Flow 3:

Average throughput: 18.93 Mbit/s

95th percentile per-packet one-way delay: 49.083 ms

Loss rate: 1.89%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-21 05:44:07

End at: 2018-03-21 05:44:37

Local clock offset: -1.575 ms

Remote clock offset: 0.553 ms

Below is generated by plot.py at 2018-03-21 07:34:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 47.695 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 68.43 Mbit/s

95th percentile per-packet one-way delay: 47.785 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 28.50 Mbit/s

95th percentile per-packet one-way delay: 47.449 ms

Loss rate: 2.30%

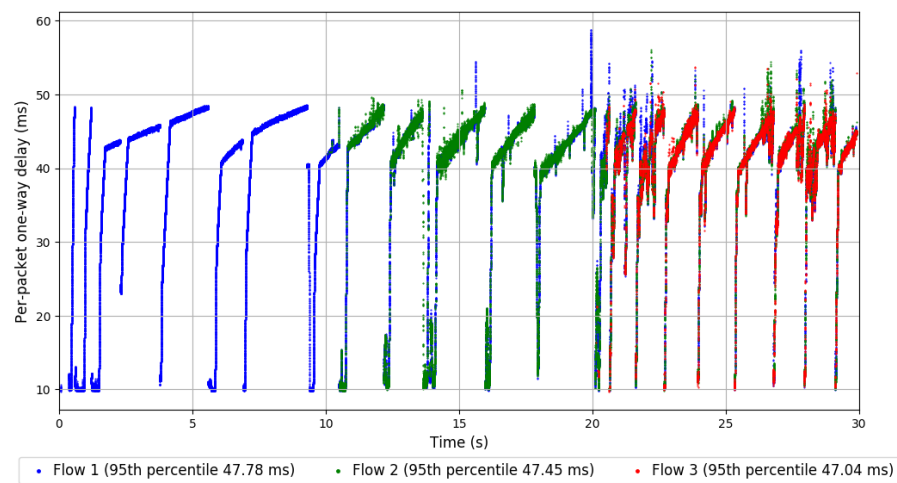
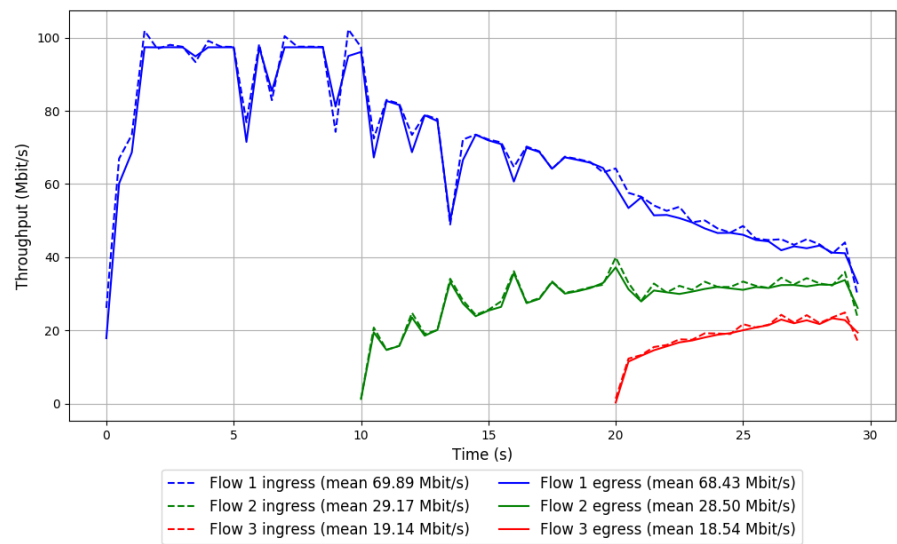
-- Flow 3:

Average throughput: 18.54 Mbit/s

95th percentile per-packet one-way delay: 47.038 ms

Loss rate: 2.80%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-21 06:05:36

End at: 2018-03-21 06:06:06

Local clock offset: -5.748 ms

Remote clock offset: -2.97 ms

Below is generated by plot.py at 2018-03-21 07:34:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.17 Mbit/s

95th percentile per-packet one-way delay: 34.323 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 31.09 Mbit/s

95th percentile per-packet one-way delay: 31.675 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 32.06 Mbit/s

95th percentile per-packet one-way delay: 34.803 ms

Loss rate: 1.02%

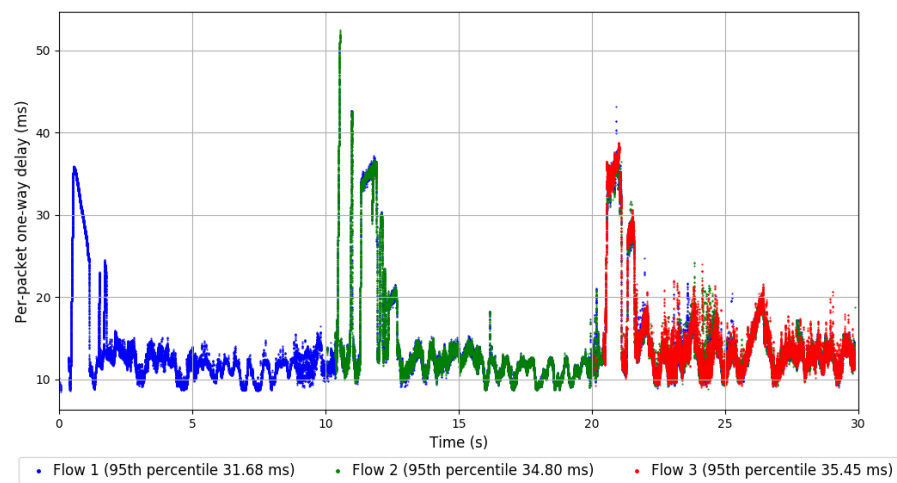
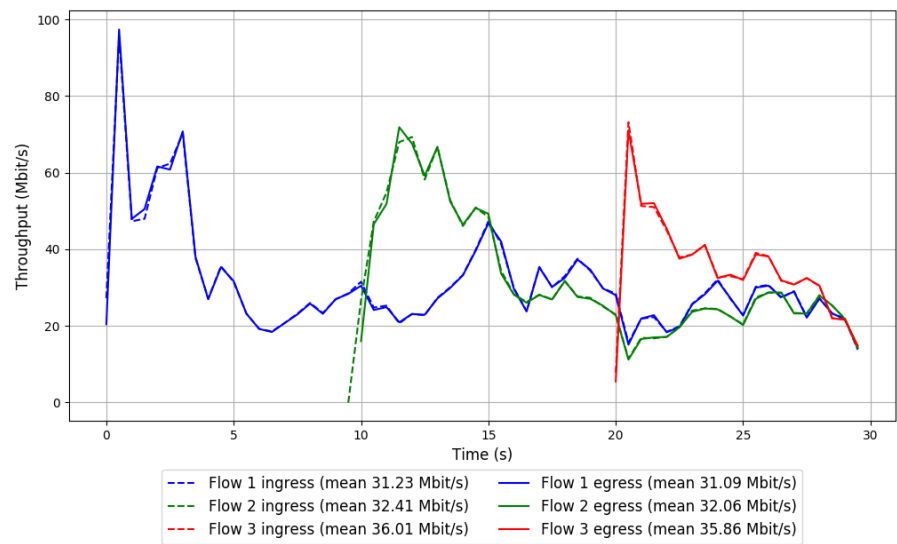
-- Flow 3:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 35.448 ms

Loss rate: 0.41%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-21 06:26:52

End at: 2018-03-21 06:27:22

Local clock offset: -0.999 ms

Remote clock offset: 0.521 ms

Below is generated by plot.py at 2018-03-21 07:34:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.31 Mbit/s

95th percentile per-packet one-way delay: 16.115 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 15.258 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 19.14 Mbit/s

95th percentile per-packet one-way delay: 15.902 ms

Loss rate: 0.73%

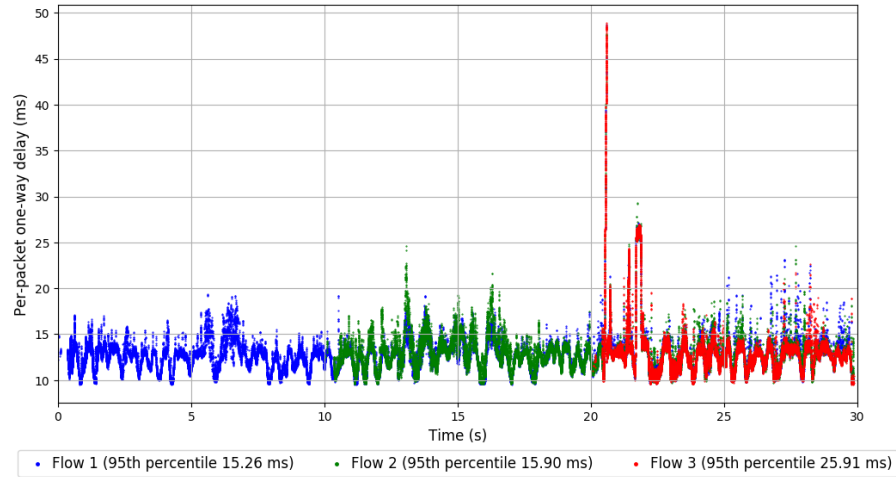
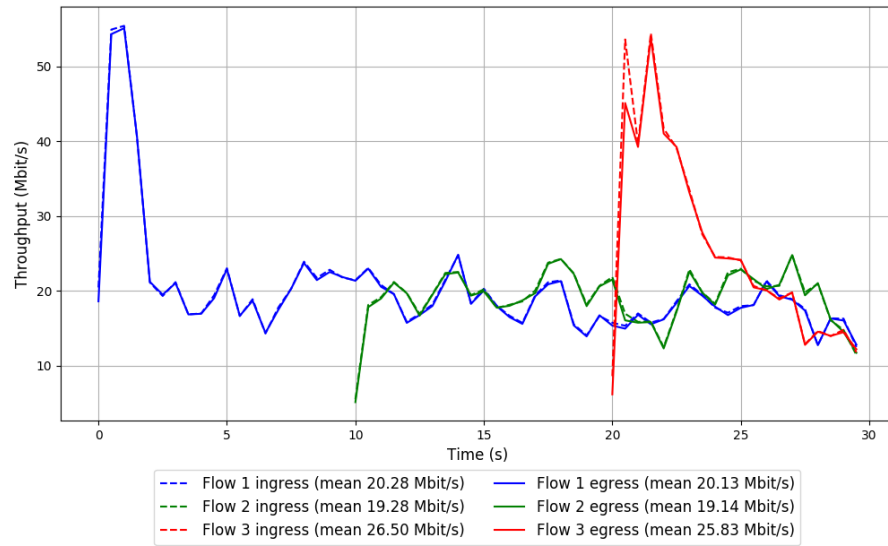
-- Flow 3:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 25.908 ms

Loss rate: 2.54%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-21 06:48:25

End at: 2018-03-21 06:48:55

Local clock offset: -4.669 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 49.246 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 49.103 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 25.82 Mbit/s

95th percentile per-packet one-way delay: 49.426 ms

Loss rate: 2.38%

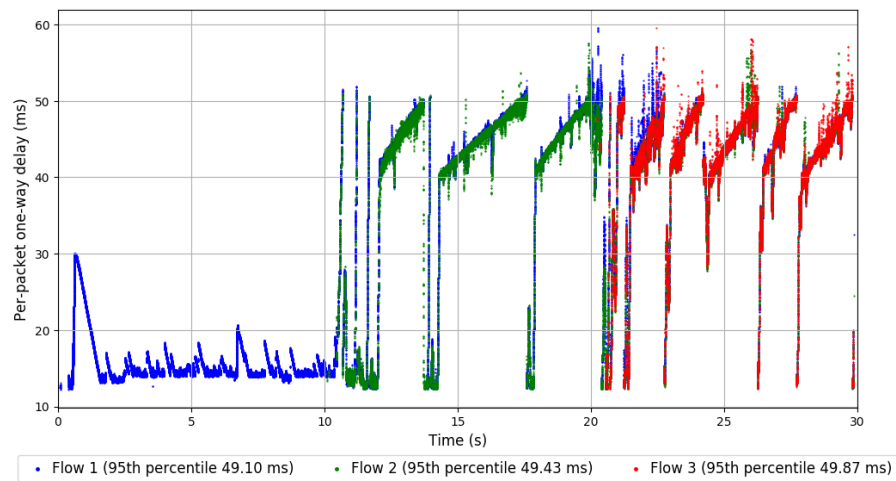
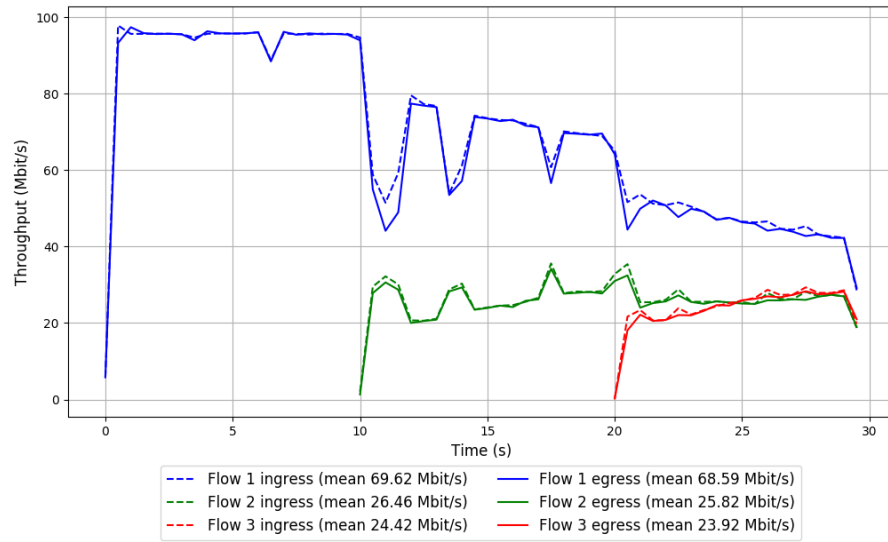
-- Flow 3:

Average throughput: 23.92 Mbit/s

95th percentile per-packet one-way delay: 49.869 ms

Loss rate: 2.25%

Run 10: Report of QUIC Cubic — Data Link

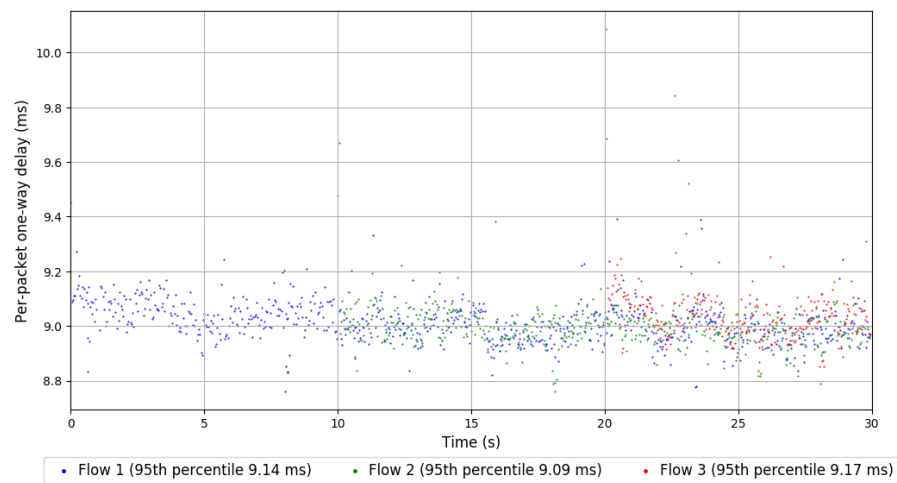
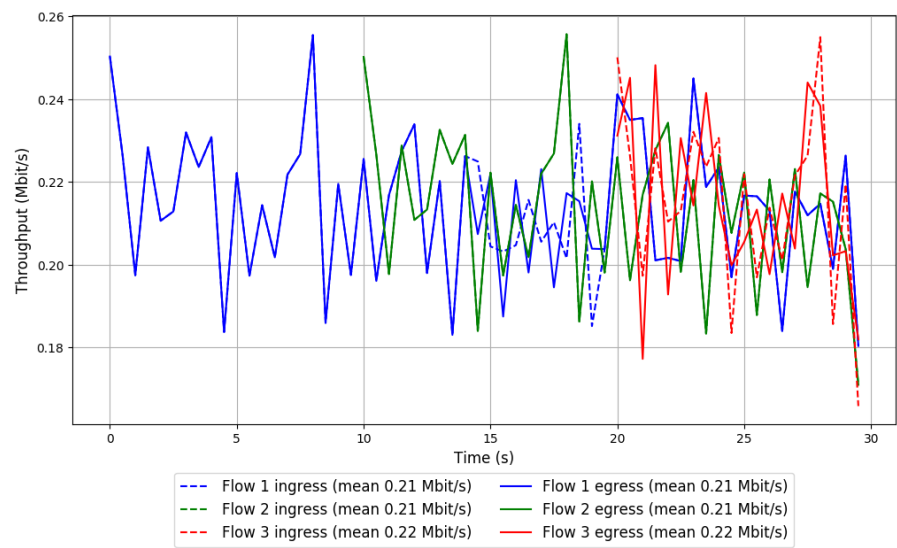


```
Run 1: Statistics of SReAM

Start at: 2018-03-21 03:30:28
End at: 2018-03-21 03:30:58
Local clock offset: -10.726 ms
Remote clock offset: -4.463 ms

# Below is generated by plot.py at 2018-03-21 07:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 9.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.137 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.091 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 9.166 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

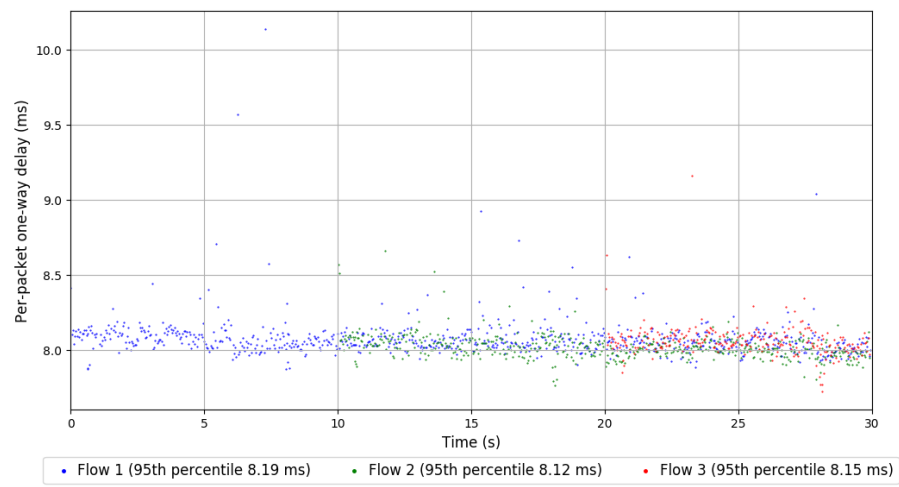
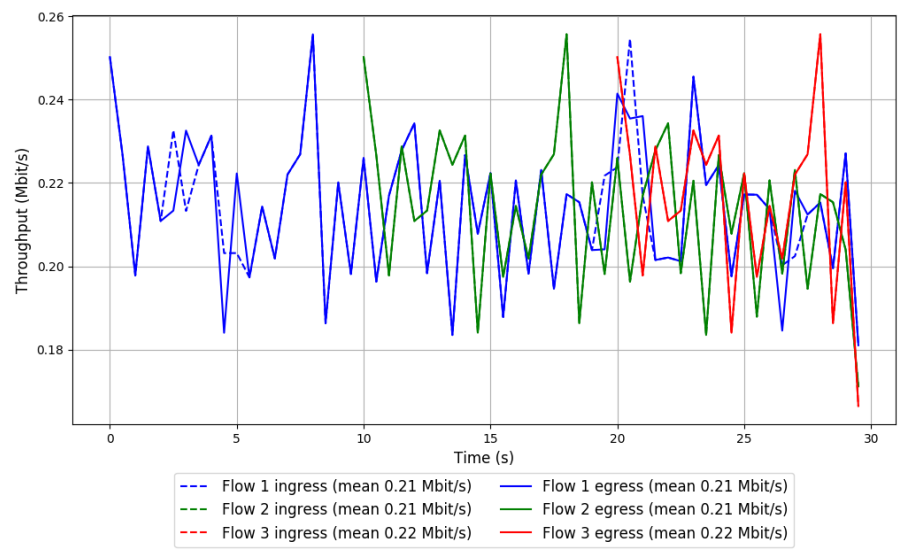


Run 2: Statistics of SReAM

Start at: 2018-03-21 03:51:43
End at: 2018-03-21 03:52:13
Local clock offset: -12.188 ms
Remote clock offset: -3.817 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 8.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.188 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.119 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 8.154 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

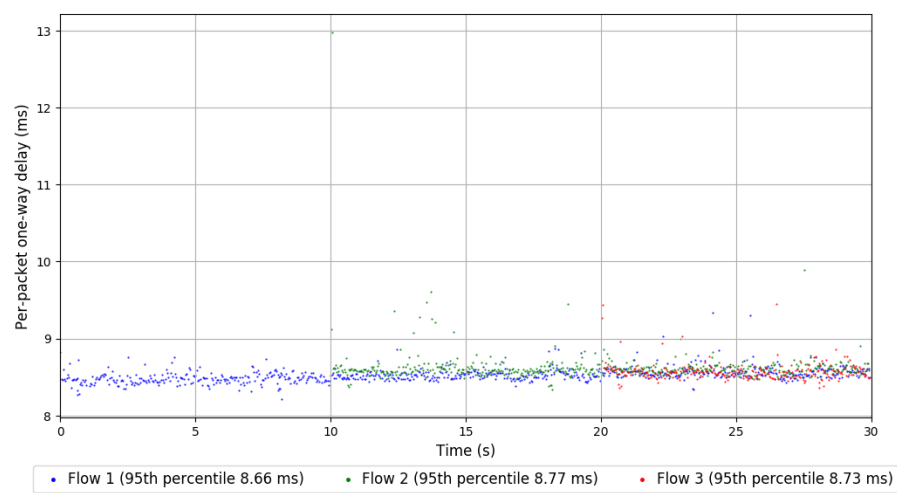
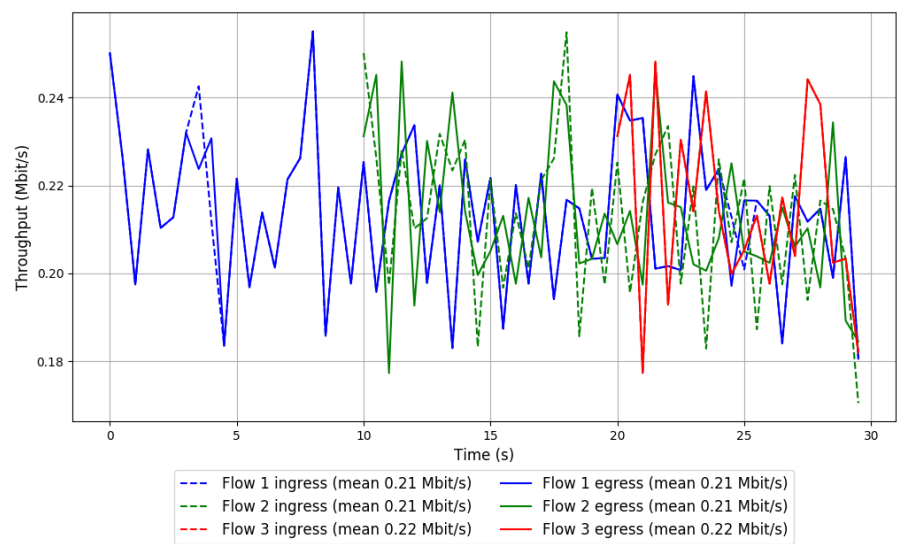


Run 3: Statistics of SReAM

Start at: 2018-03-21 04:13:13
End at: 2018-03-21 04:13:43
Local clock offset: 0.34 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 8.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.663 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.766 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 8.729 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-03-21 04:34:57

End at: 2018-03-21 04:35:27

Local clock offset: -0.854 ms

Remote clock offset: 1.997 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 9.061 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 9.026 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 9.078 ms

Loss rate: 0.00%

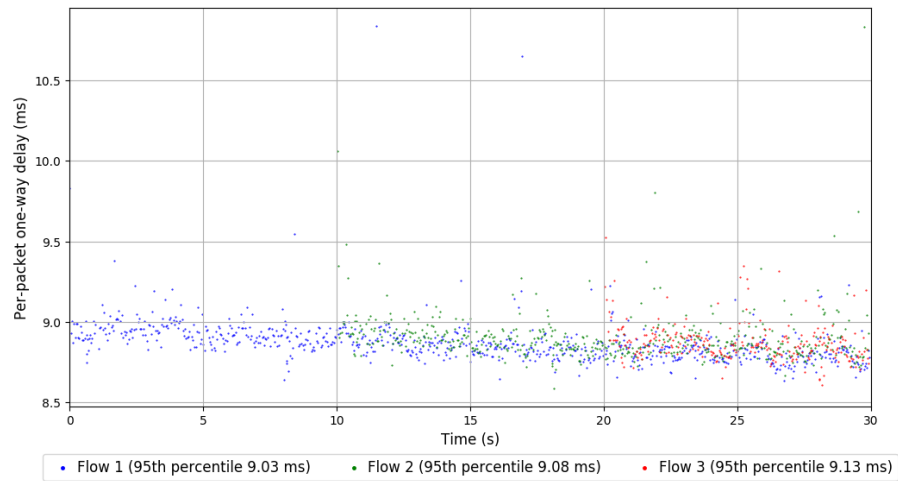
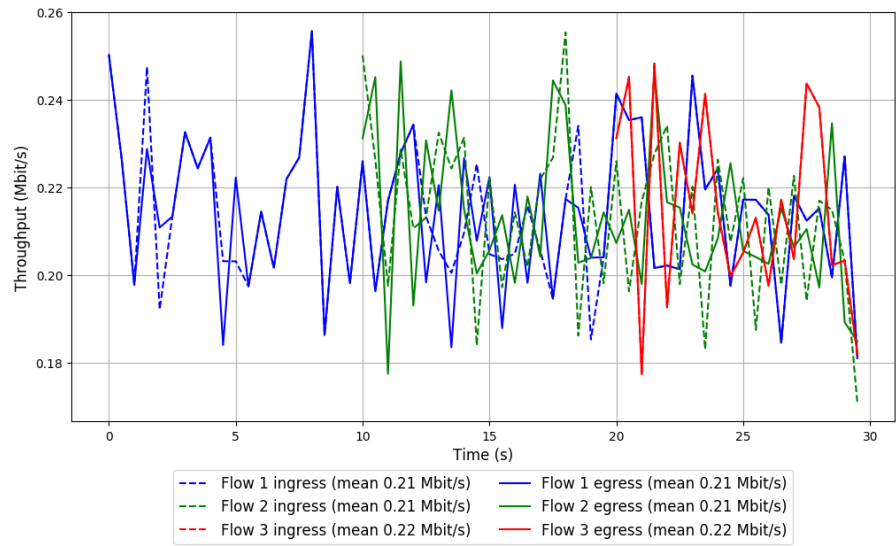
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 9.131 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-03-21 04:56:02

End at: 2018-03-21 04:56:32

Local clock offset: -3.824 ms

Remote clock offset: 3.401 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 9.834 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 9.761 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 9.950 ms

Loss rate: 0.00%

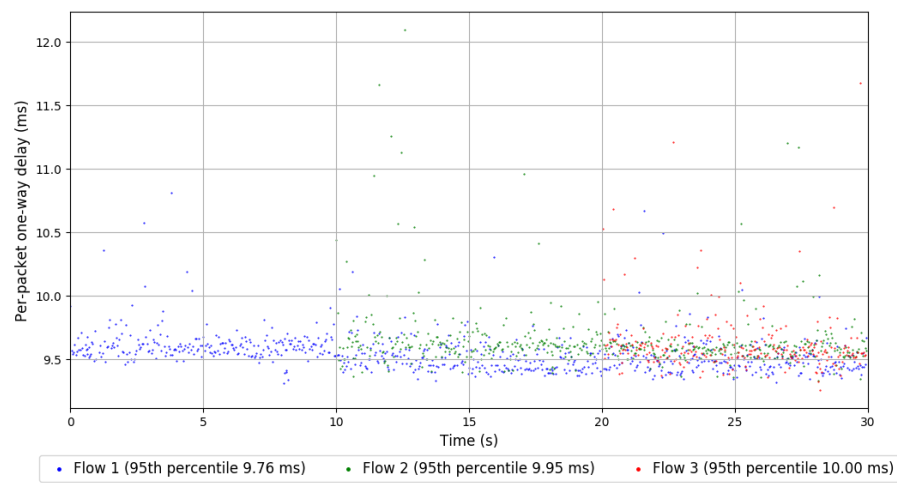
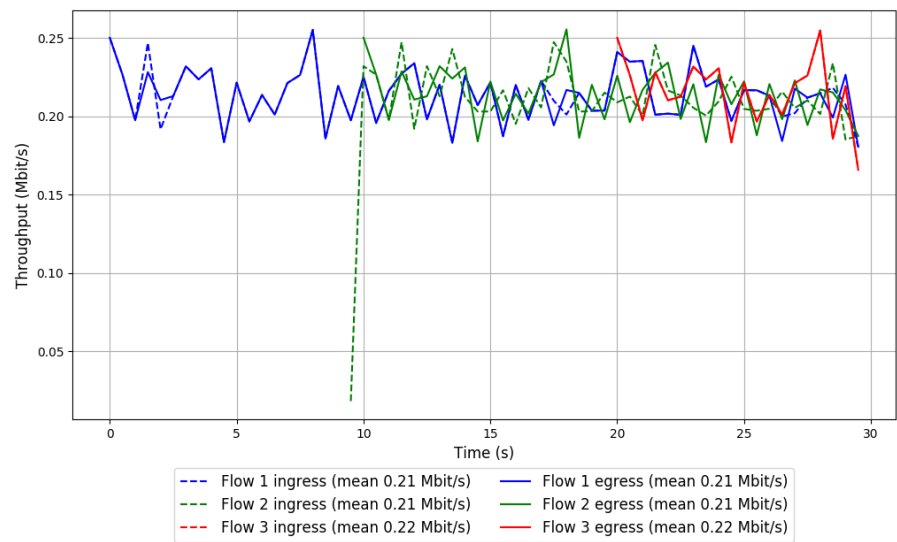
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 9.996 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-03-21 05:17:11

End at: 2018-03-21 05:17:41

Local clock offset: -0.291 ms

Remote clock offset: 1.515 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 11.001 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.103 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 10.801 ms

Loss rate: 0.00%

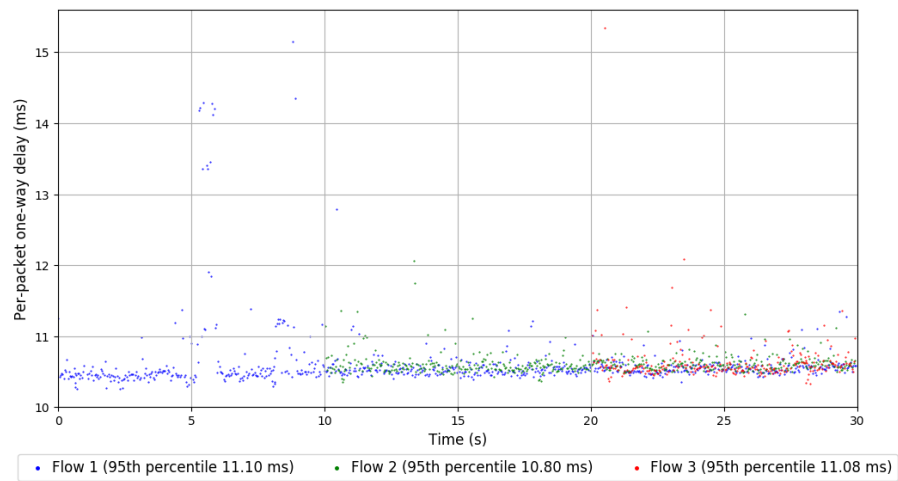
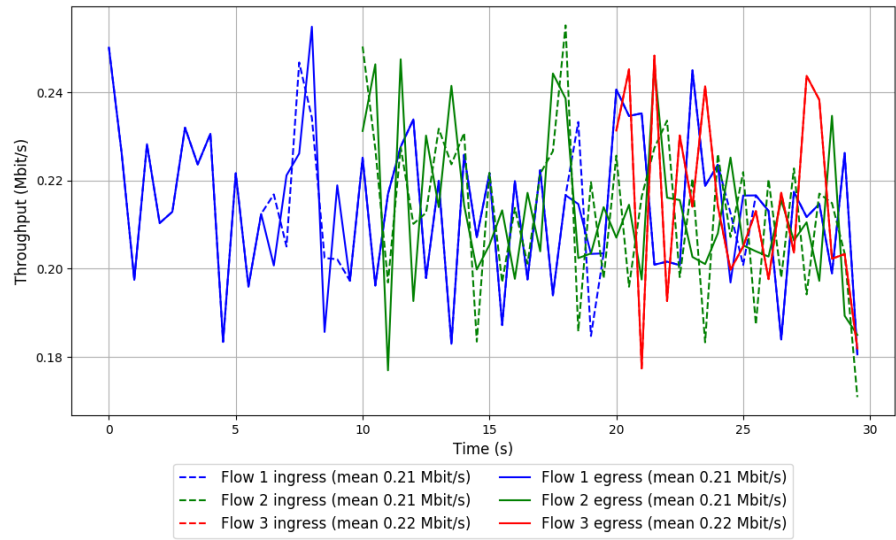
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.076 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-03-21 05:38:17

End at: 2018-03-21 05:38:47

Local clock offset: 0.511 ms

Remote clock offset: 0.62 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 11.215 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.314 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.249 ms

Loss rate: 0.00%

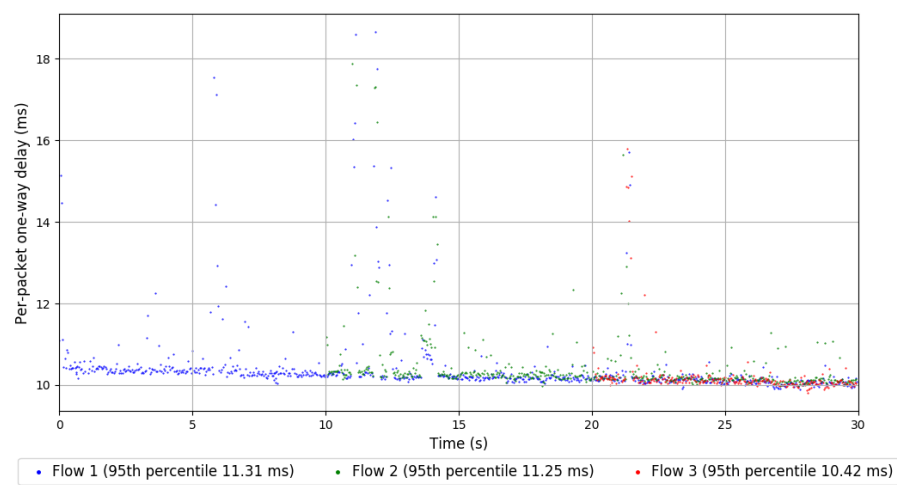
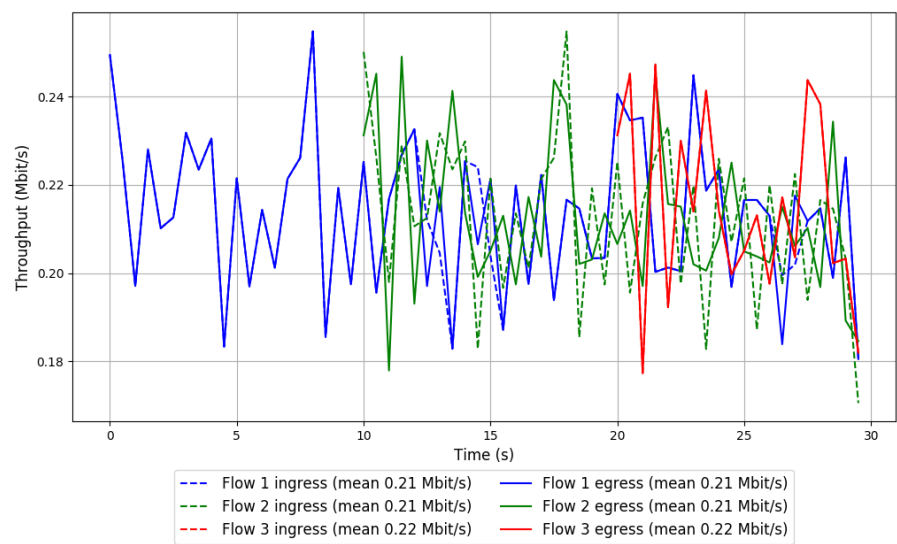
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 10.422 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

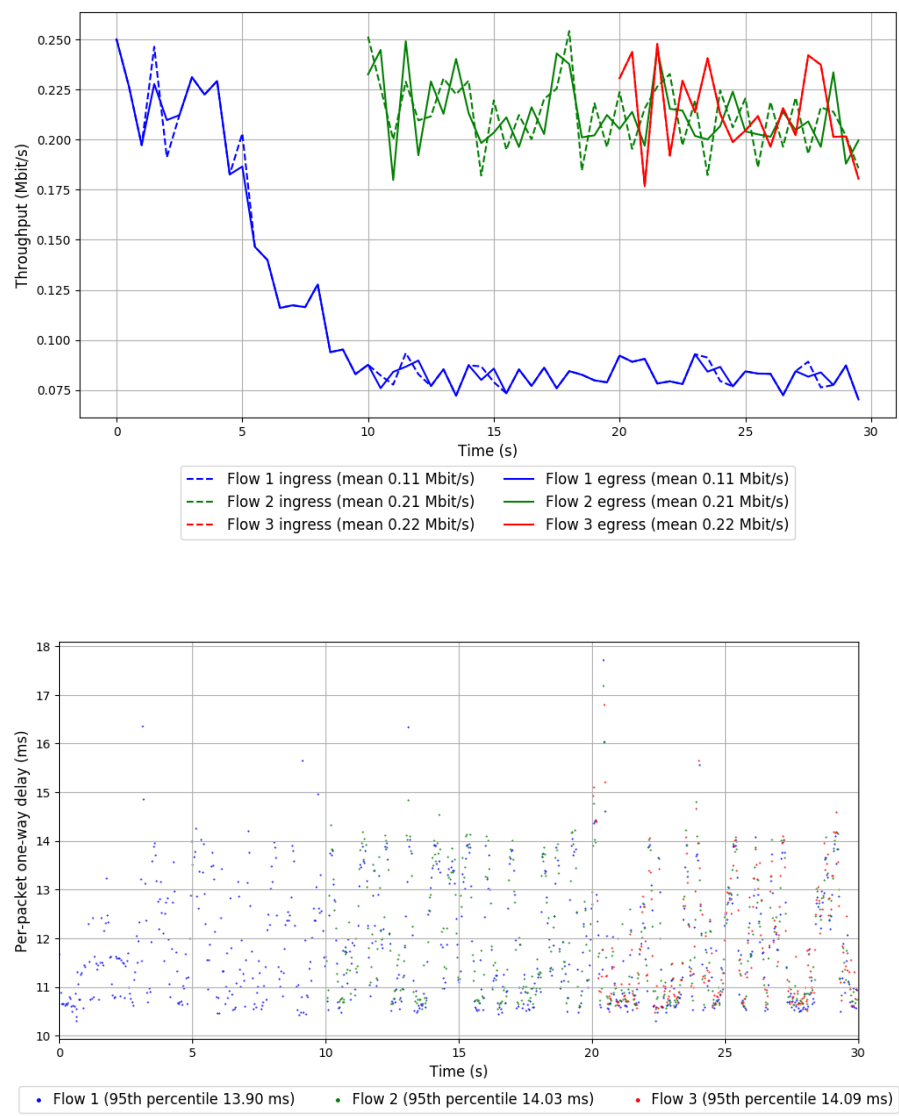


Run 8: Statistics of SReAM

Start at: 2018-03-21 05:59:39
End at: 2018-03-21 06:00:09
Local clock offset: -4.979 ms
Remote clock offset: -0.864 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 13.986 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 13.899 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.029 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.089 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

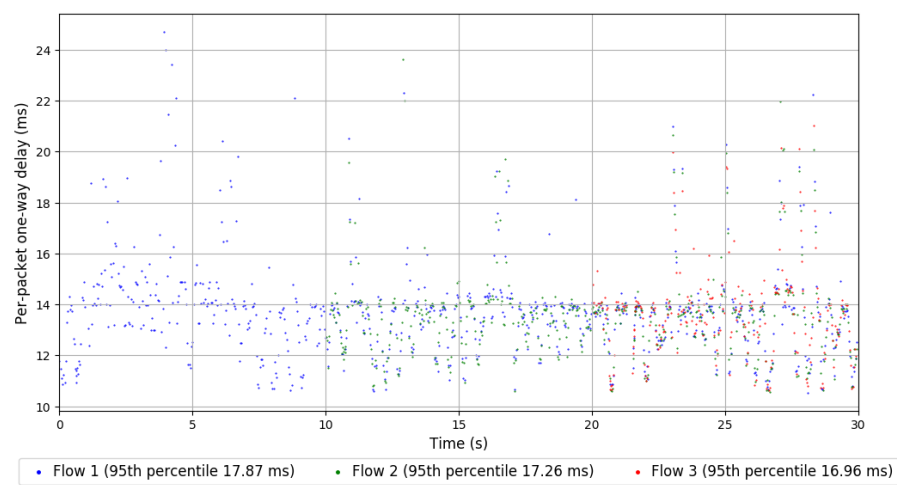
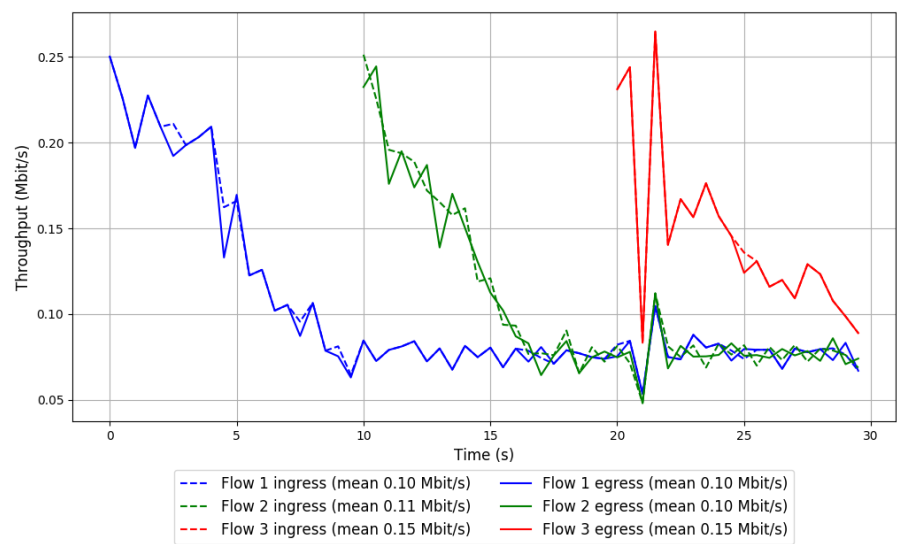


Run 9: Statistics of SCReAM

Start at: 2018-03-21 06:21:02
End at: 2018-03-21 06:21:32
Local clock offset: -3.341 ms
Remote clock offset: -0.865 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.565 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 17.873 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 17.260 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 16.959 ms
Loss rate: 0.40%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-21 06:42:19

End at: 2018-03-21 06:42:49

Local clock offset: -1.19 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 11.031 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.245 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 10.781 ms

Loss rate: 0.00%

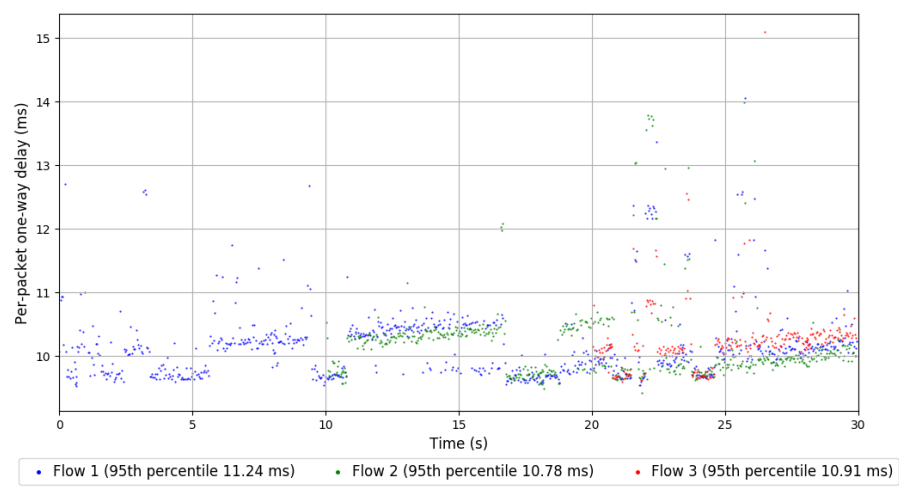
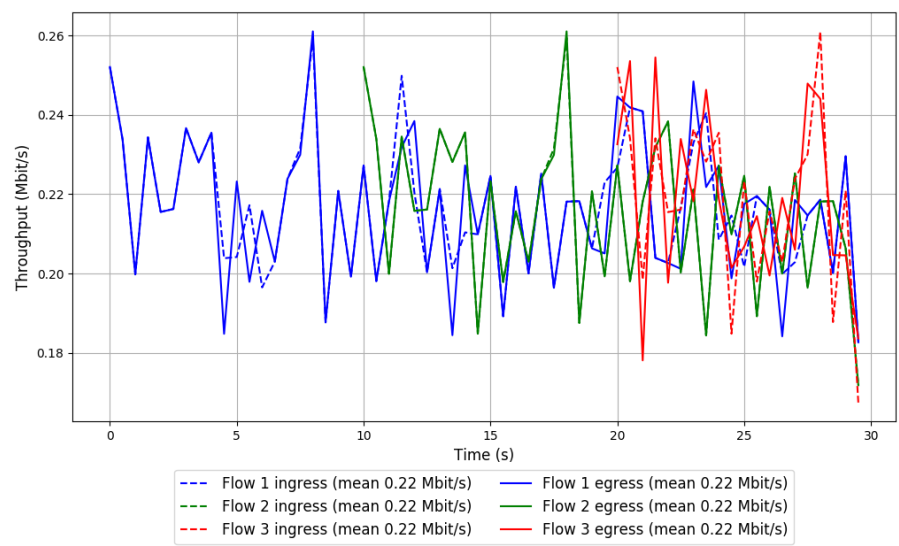
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 10.909 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

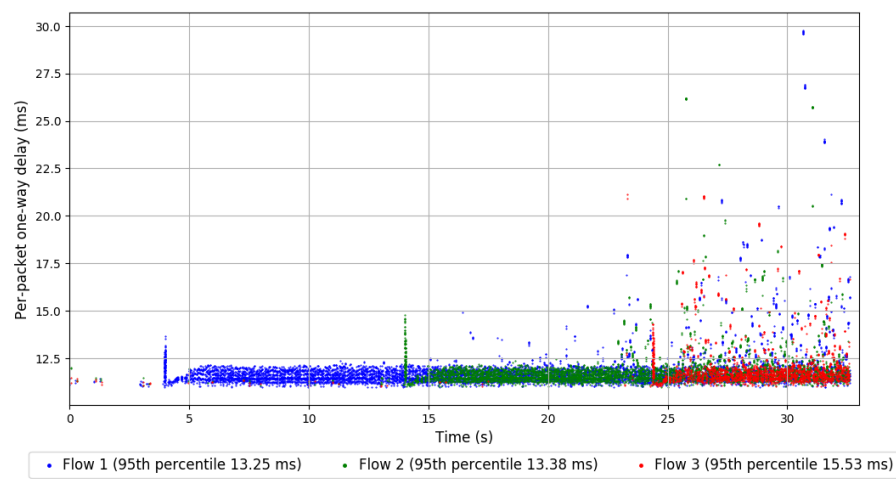
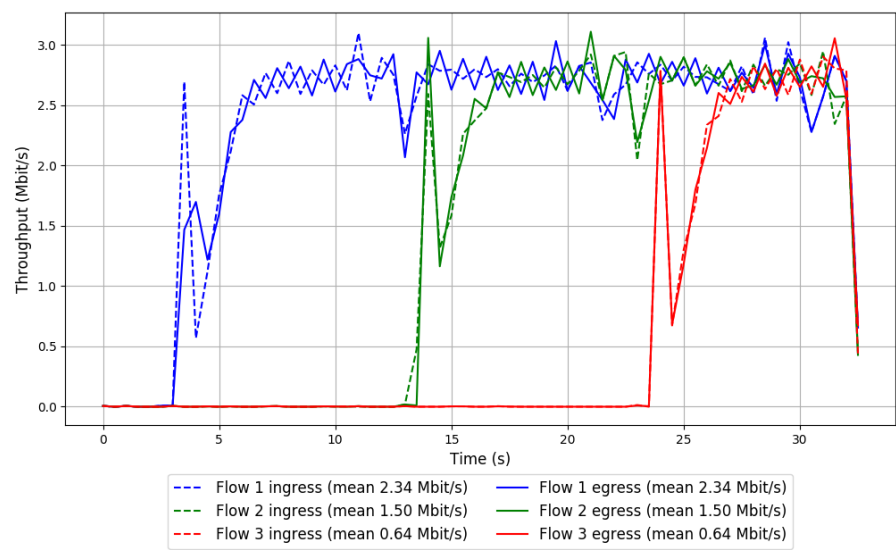


Run 1: Statistics of WebRTC media

Start at: 2018-03-21 03:23:22
End at: 2018-03-21 03:23:52
Local clock offset: -12.67 ms
Remote clock offset: -5.939 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 13.695 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 13.252 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 13.376 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 15.526 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

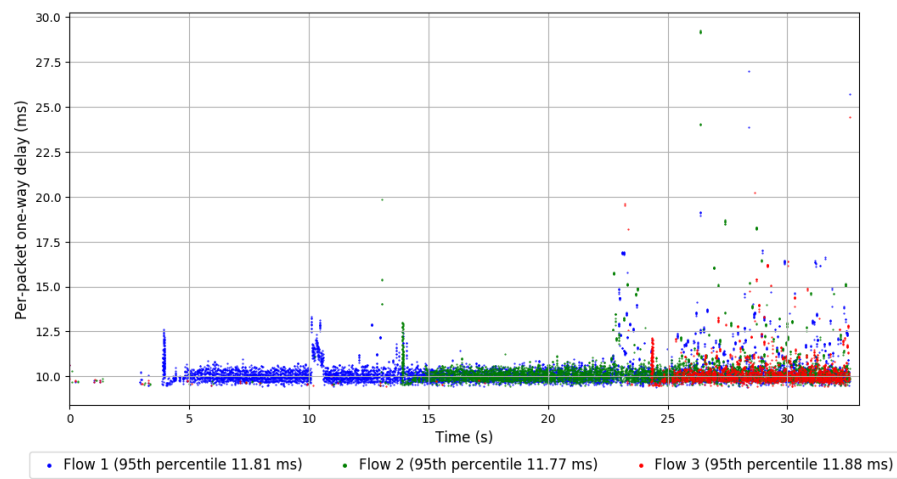
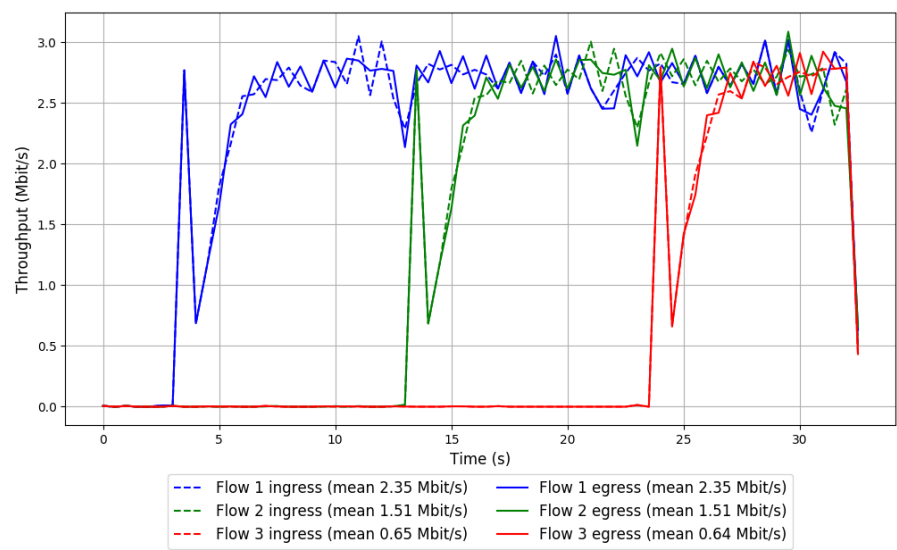


Run 2: Statistics of WebRTC media

Start at: 2018-03-21 03:44:25
End at: 2018-03-21 03:44:55
Local clock offset: -13.174 ms
Remote clock offset: -3.821 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 11.823 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 11.815 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 11.766 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 11.876 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

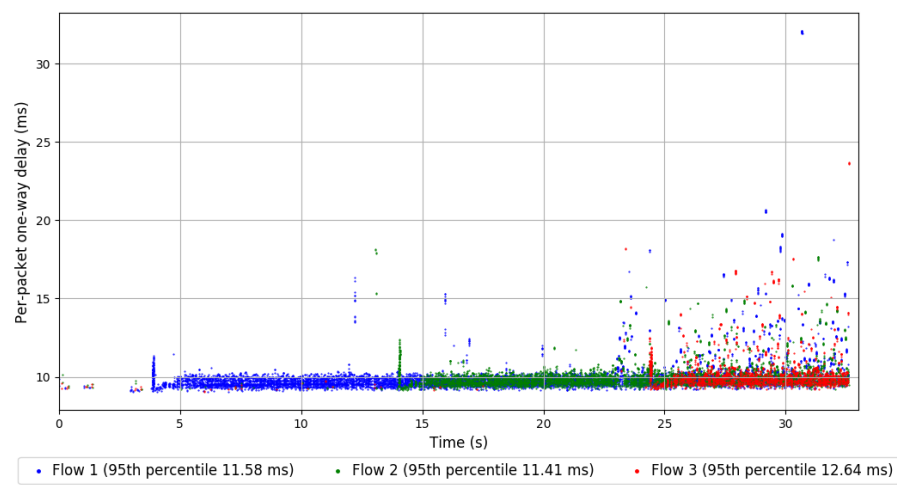
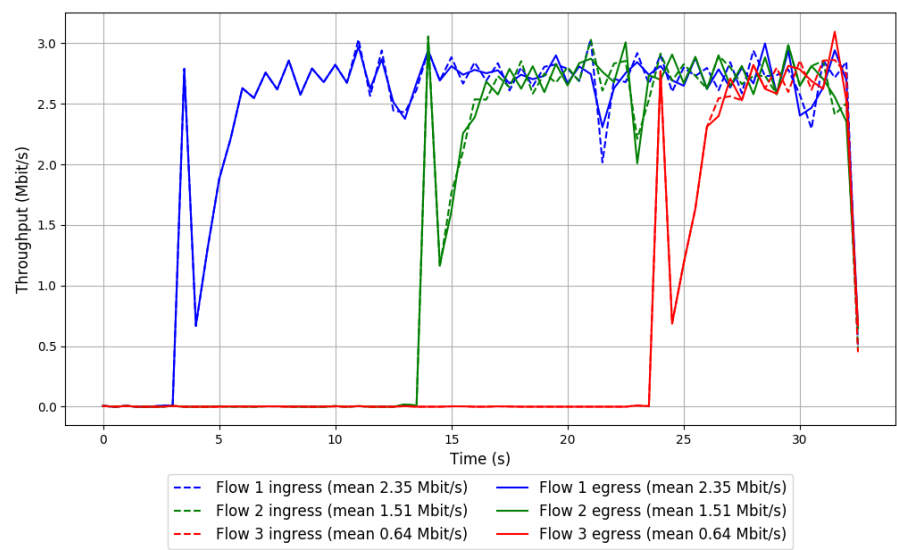


Run 3: Statistics of WebRTC media

Start at: 2018-03-21 04:06:04
End at: 2018-03-21 04:06:34
Local clock offset: -2.526 ms
Remote clock offset: -0.452 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 11.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 11.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 11.410 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 12.643 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-21 04:27:50

End at: 2018-03-21 04:28:20

Local clock offset: 1.641 ms

Remote clock offset: 1.413 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 12.419 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 11.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 12.793 ms

Loss rate: 0.00%

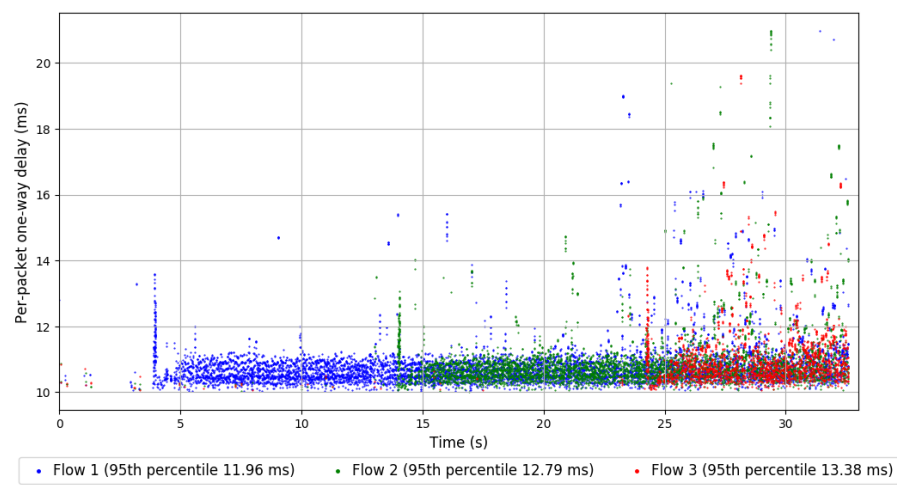
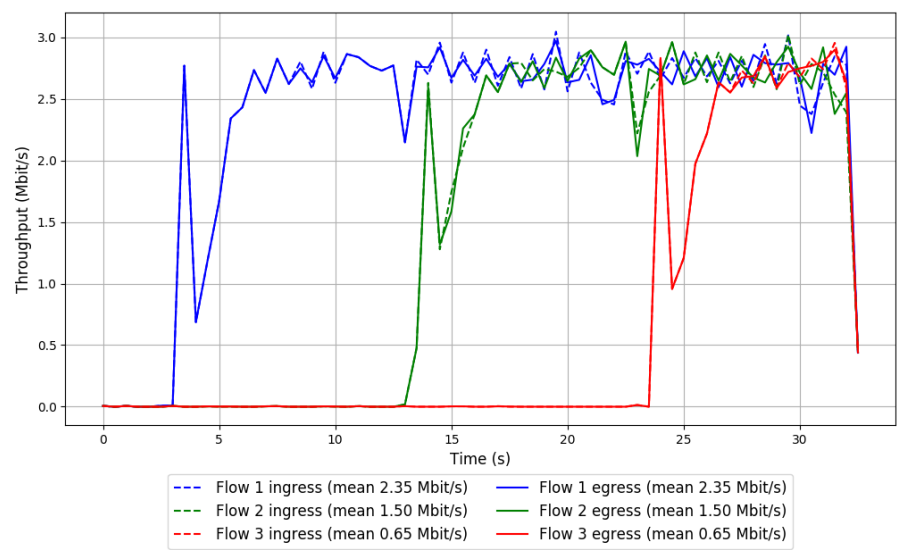
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 13.381 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-21 04:48:56

End at: 2018-03-21 04:49:26

Local clock offset: -3.38 ms

Remote clock offset: 1.945 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 10.727 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 10.691 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 10.216 ms

Loss rate: 0.00%

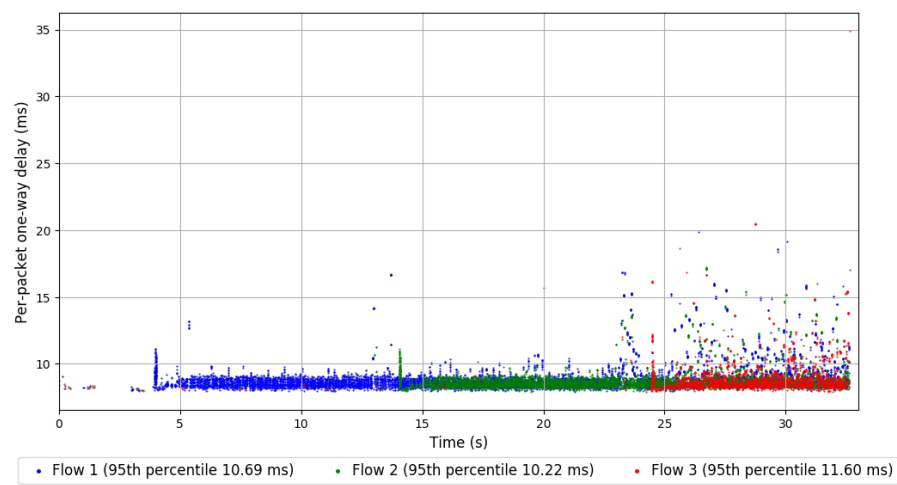
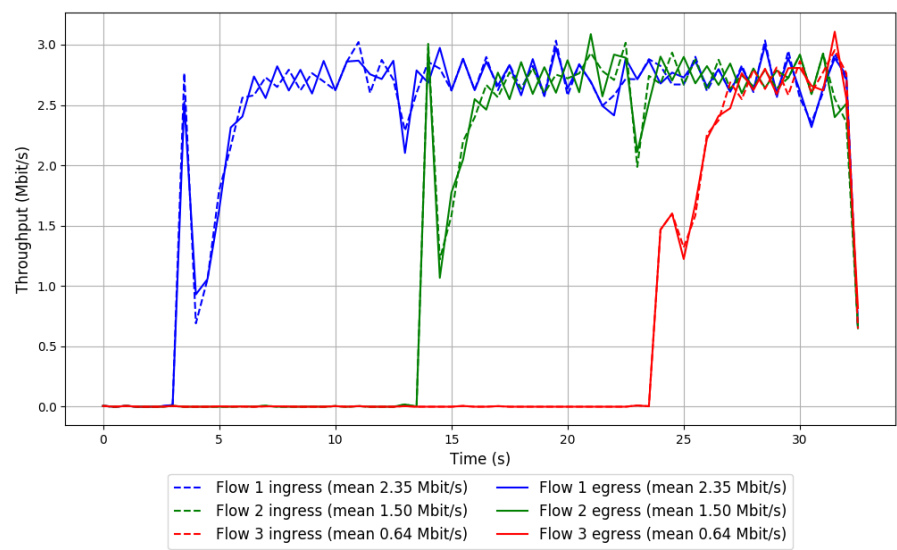
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 11.603 ms

Loss rate: 0.09%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-21 05:09:58

End at: 2018-03-21 05:10:28

Local clock offset: -1.093 ms

Remote clock offset: 2.382 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 11.789 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 11.929 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 11.439 ms

Loss rate: 0.00%

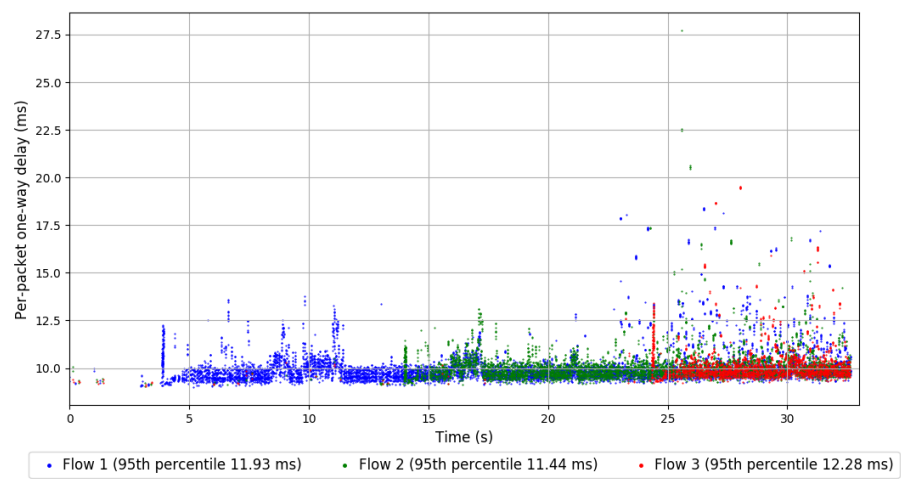
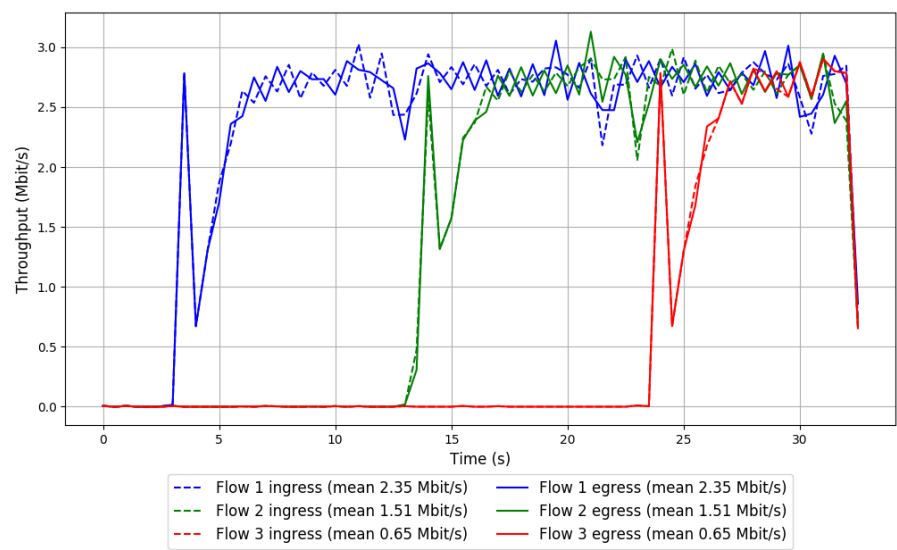
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 12.280 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-21 05:31:12

End at: 2018-03-21 05:31:42

Local clock offset: 2.914 ms

Remote clock offset: 1.391 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 12.742 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 12.307 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 12.736 ms

Loss rate: 0.00%

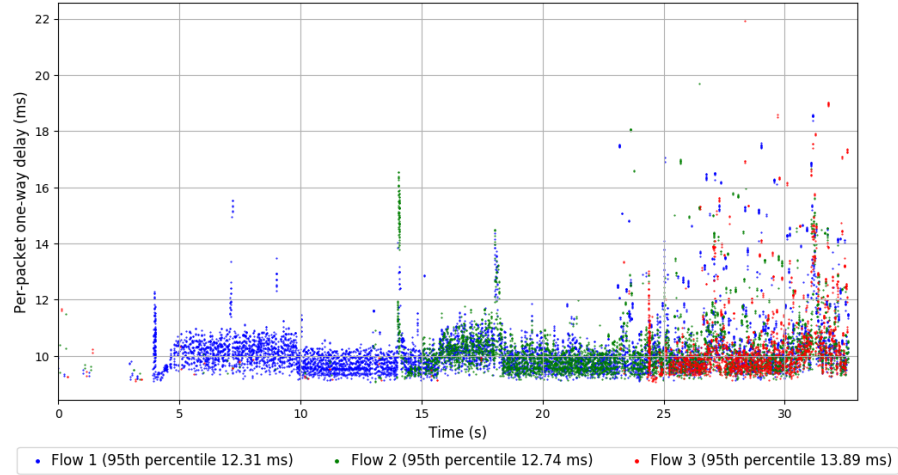
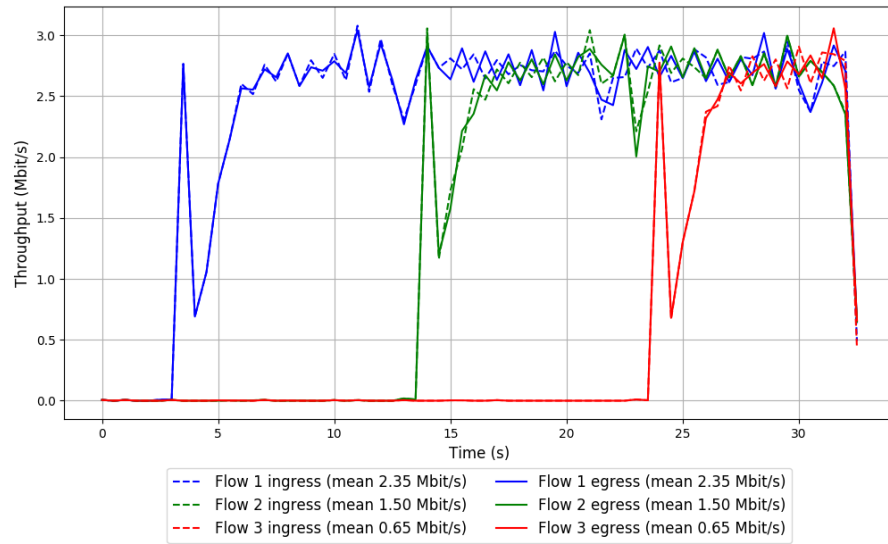
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 13.890 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-21 05:52:26

End at: 2018-03-21 05:52:56

Local clock offset: -5.827 ms

Remote clock offset: -0.69 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 16.577 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 16.605 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 16.561 ms

Loss rate: 0.24%

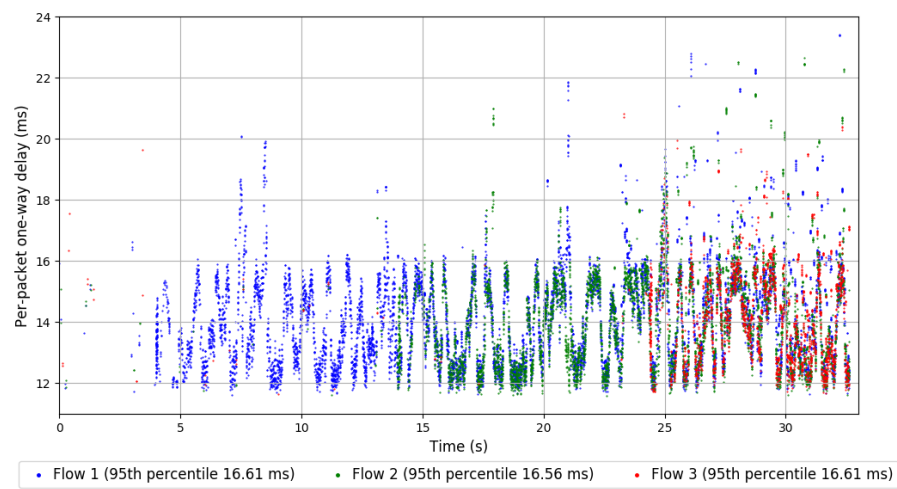
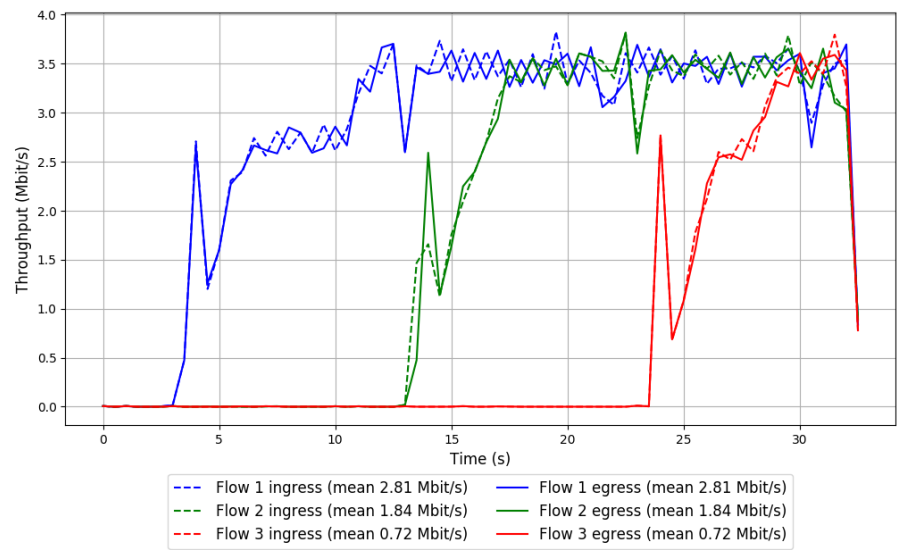
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 16.610 ms

Loss rate: 0.49%

Run 8: Report of WebRTC media — Data Link

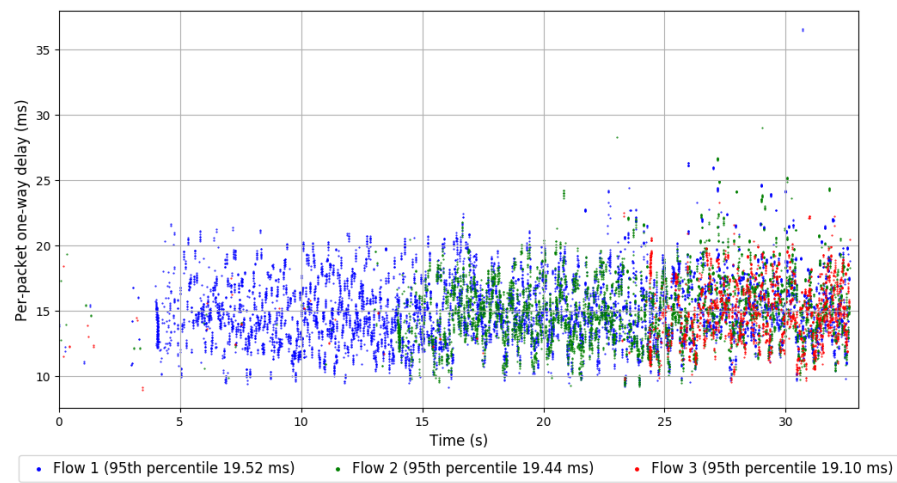
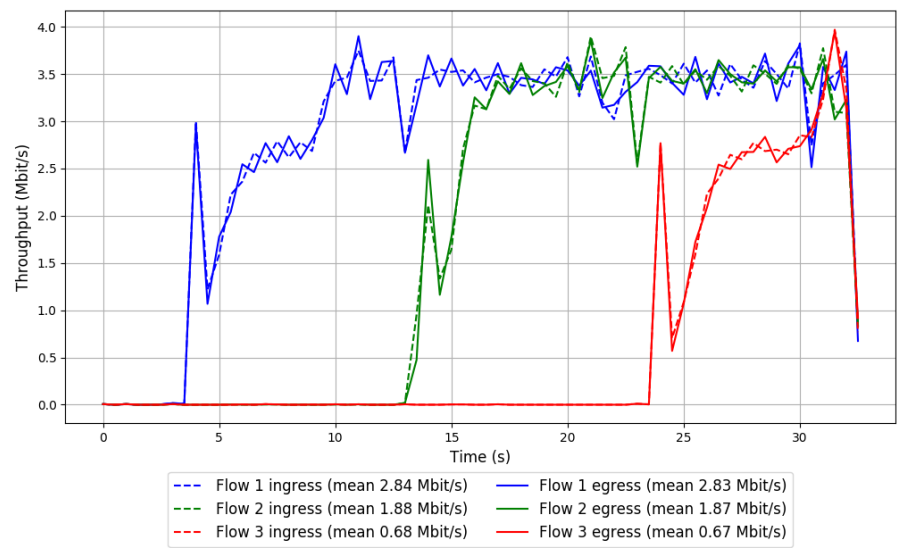


Run 9: Statistics of WebRTC media

Start at: 2018-03-21 06:13:55
End at: 2018-03-21 06:14:25
Local clock offset: -5.041 ms
Remote clock offset: -3.629 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 19.389 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 19.525 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 19.443 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 19.100 ms
Loss rate: 0.39%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-21 06:35:07

End at: 2018-03-21 06:35:37

Local clock offset: -2.935 ms

Remote clock offset: 1.529 ms

Below is generated by plot.py at 2018-03-21 07:35:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 15.732 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 15.867 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 15.329 ms

Loss rate: 0.00%

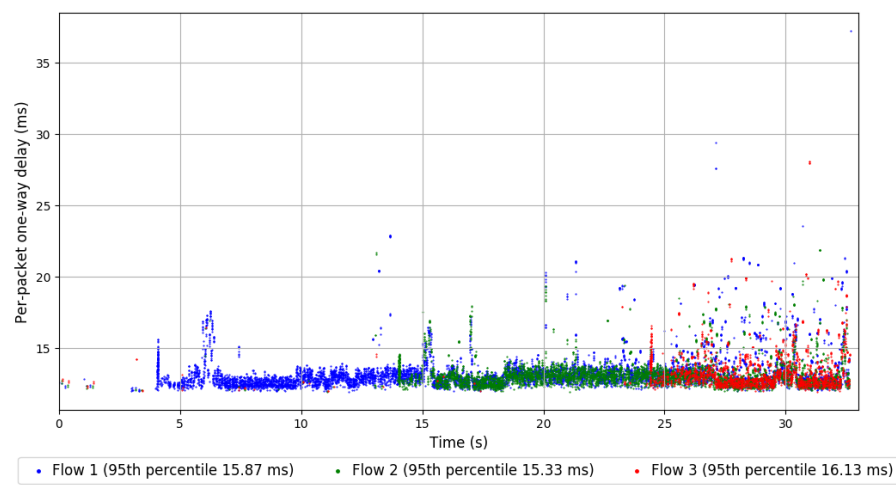
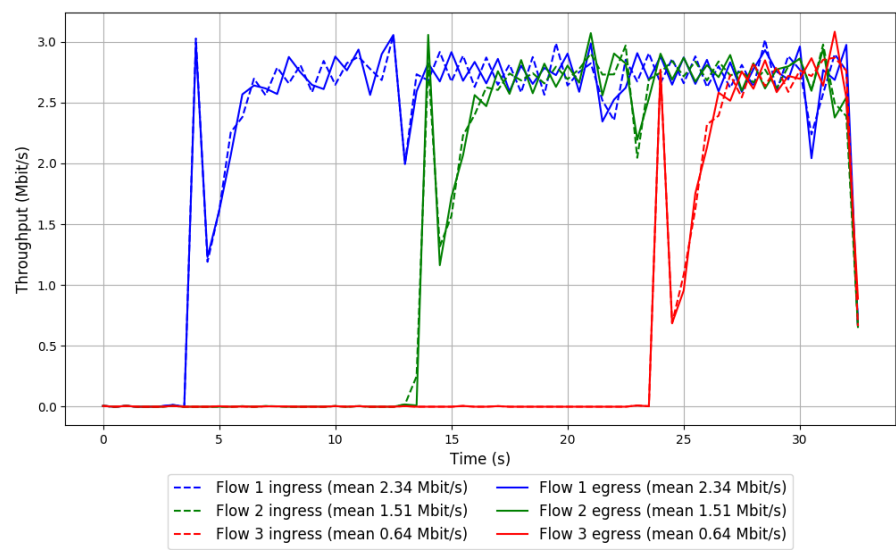
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 16.129 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

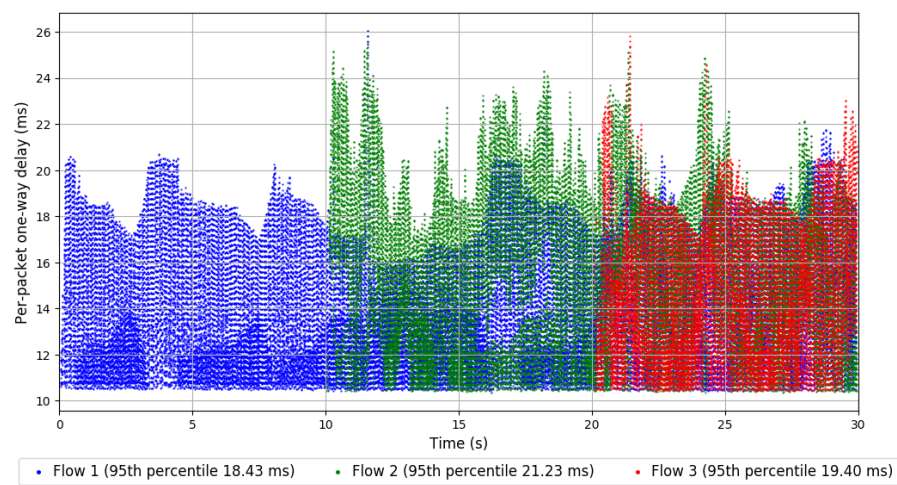
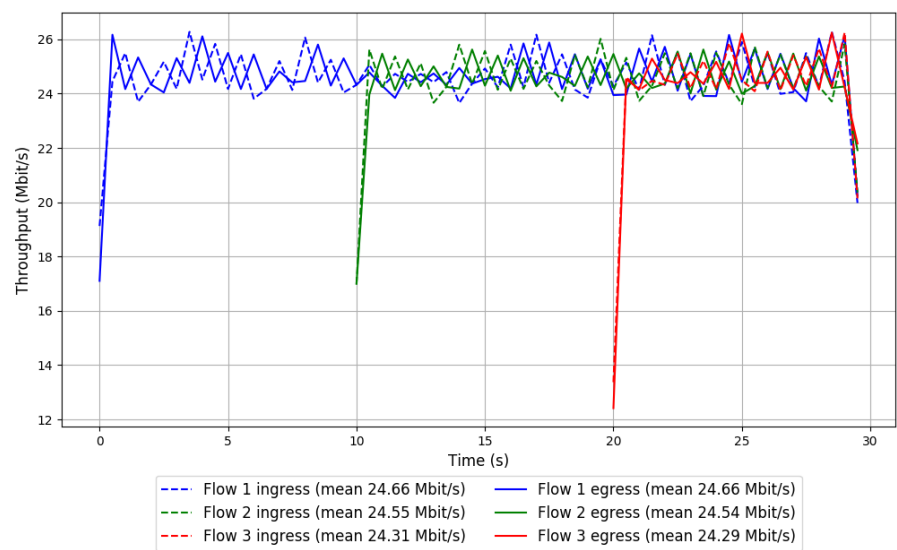


Run 1: Statistics of Sprout

Start at: 2018-03-21 03:32:45
End at: 2018-03-21 03:33:15
Local clock offset: -11.469 ms
Remote clock offset: -3.18 ms

Below is generated by plot.py at 2018-03-21 07:35:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.00 Mbit/s
95th percentile per-packet one-way delay: 19.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 18.433 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 21.231 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 19.404 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

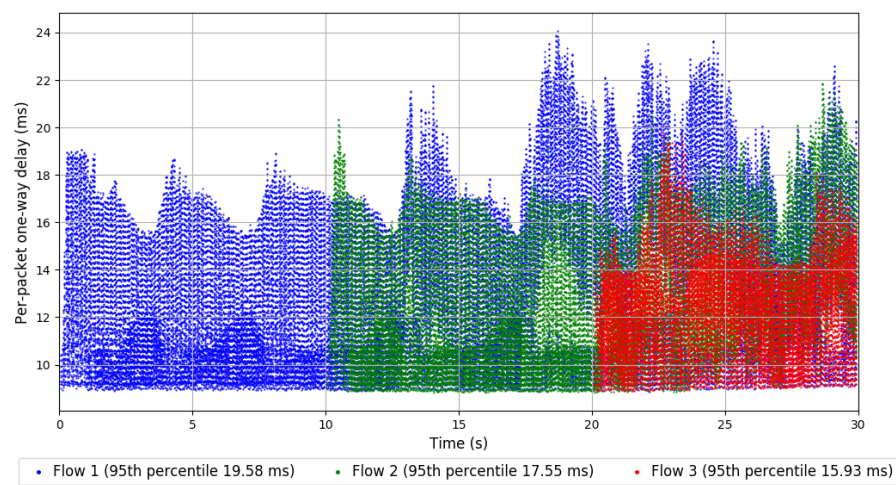
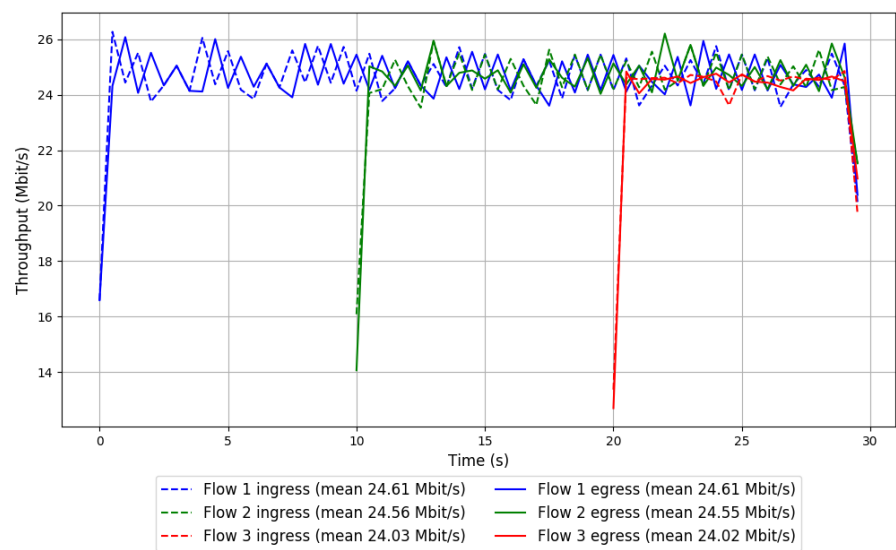


Run 2: Statistics of Sprout

Start at: 2018-03-21 03:54:00
End at: 2018-03-21 03:54:30
Local clock offset: -12.466 ms
Remote clock offset: -2.845 ms

```
# Below is generated by plot.py at 2018-03-21 07:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.86 Mbit/s
95th percentile per-packet one-way delay: 18.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 19.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 17.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 15.931 ms
Loss rate: 0.00%
```


Run 2: Report of Sprout — Data Link

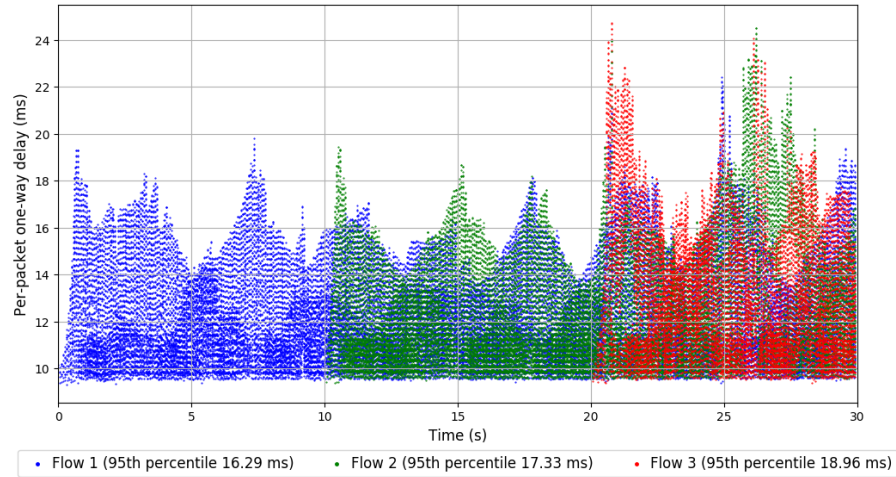
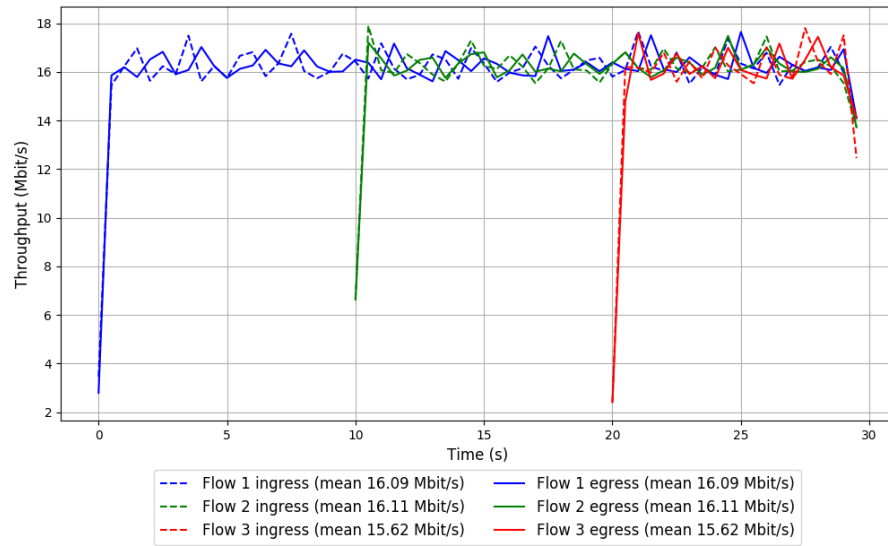


Run 3: Statistics of Sprout

Start at: 2018-03-21 04:15:30
End at: 2018-03-21 04:16:00
Local clock offset: 0.823 ms
Remote clock offset: 1.181 ms

```
# Below is generated by plot.py at 2018-03-21 07:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 17.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.09 Mbit/s
95th percentile per-packet one-way delay: 16.287 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 17.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.62 Mbit/s
95th percentile per-packet one-way delay: 18.965 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

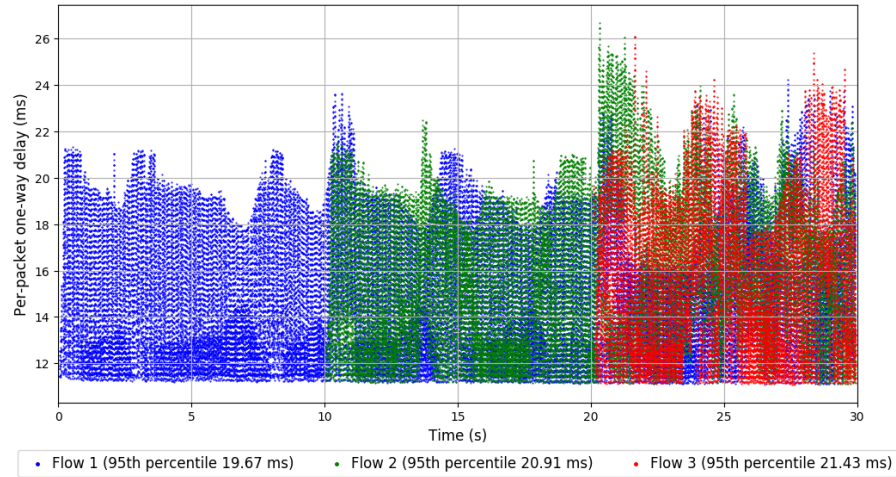
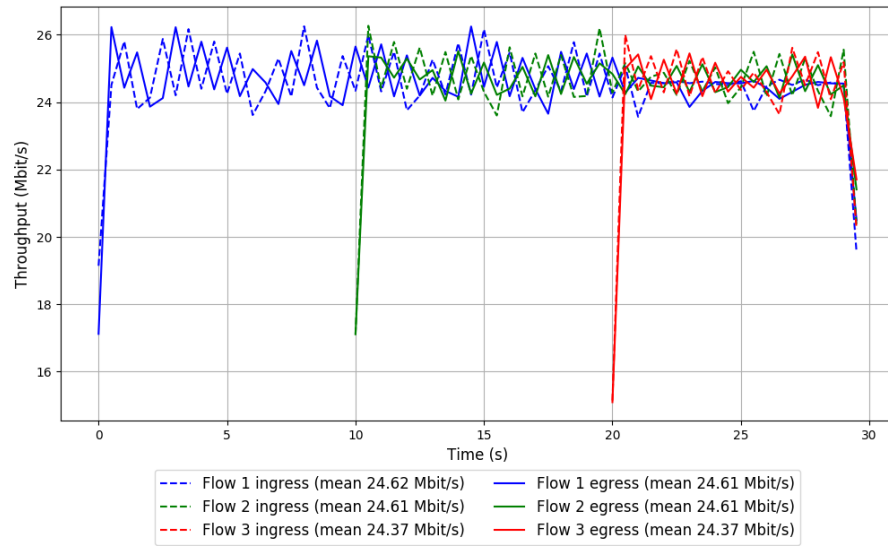


Run 4: Statistics of Sprout

Start at: 2018-03-21 04:37:13
End at: 2018-03-21 04:37:43
Local clock offset: -3.88 ms
Remote clock offset: 2.234 ms

```
# Below is generated by plot.py at 2018-03-21 07:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.01 Mbit/s
95th percentile per-packet one-way delay: 20.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 19.667 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 20.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 21.431 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

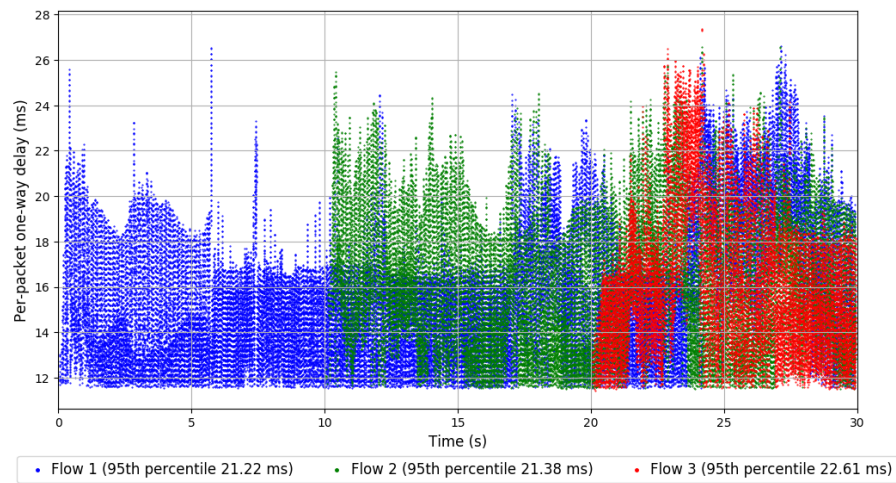
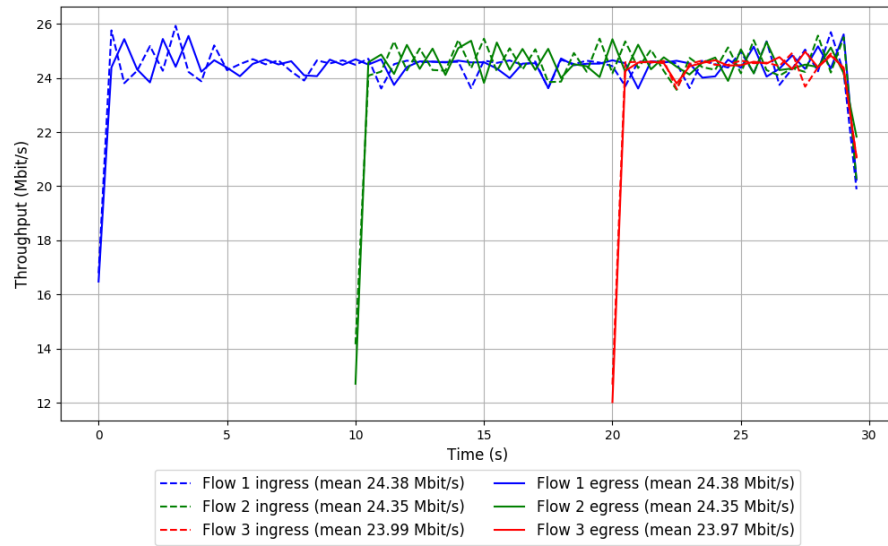


Run 5: Statistics of Sprout

Start at: 2018-03-21 04:58:18
End at: 2018-03-21 04:58:48
Local clock offset: -6.475 ms
Remote clock offset: 2.983 ms

```
# Below is generated by plot.py at 2018-03-21 07:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.49 Mbit/s
95th percentile per-packet one-way delay: 21.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 21.221 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 21.377 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 22.607 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

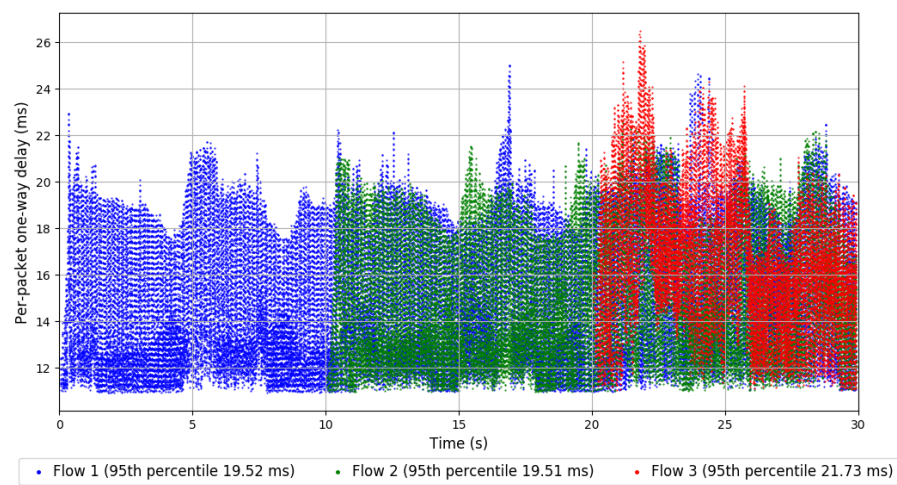
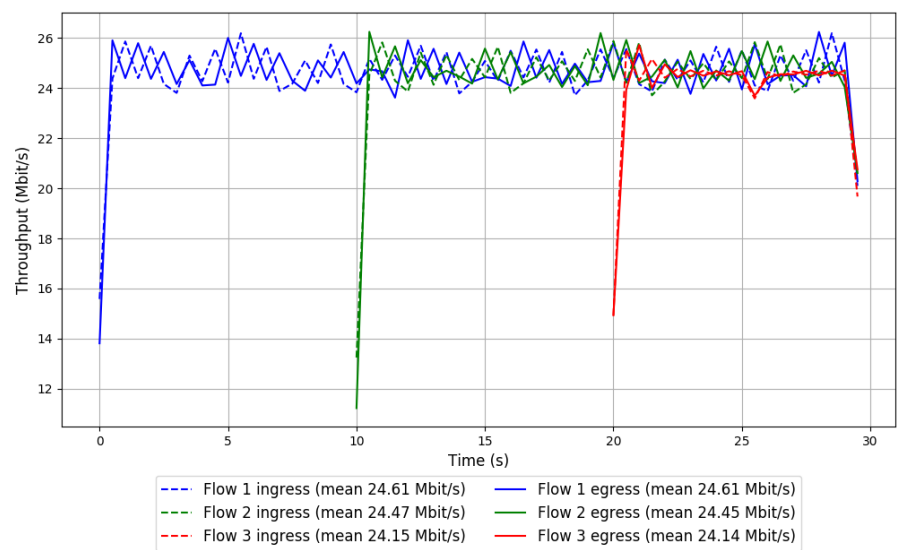


Run 6: Statistics of Sprout

Start at: 2018-03-21 05:19:27
End at: 2018-03-21 05:19:57
Local clock offset: -0.967 ms
Remote clock offset: 0.909 ms

Below is generated by plot.py at 2018-03-21 07:35:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.86 Mbit/s
95th percentile per-packet one-way delay: 19.916 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 19.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 19.507 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 21.726 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-21 05:40:33

End at: 2018-03-21 05:41:03

Local clock offset: 0.911 ms

Remote clock offset: 0.84 ms

Below is generated by plot.py at 2018-03-21 07:35:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.91 Mbit/s

95th percentile per-packet one-way delay: 18.586 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 17.778 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.44 Mbit/s

95th percentile per-packet one-way delay: 18.161 ms

Loss rate: 0.00%

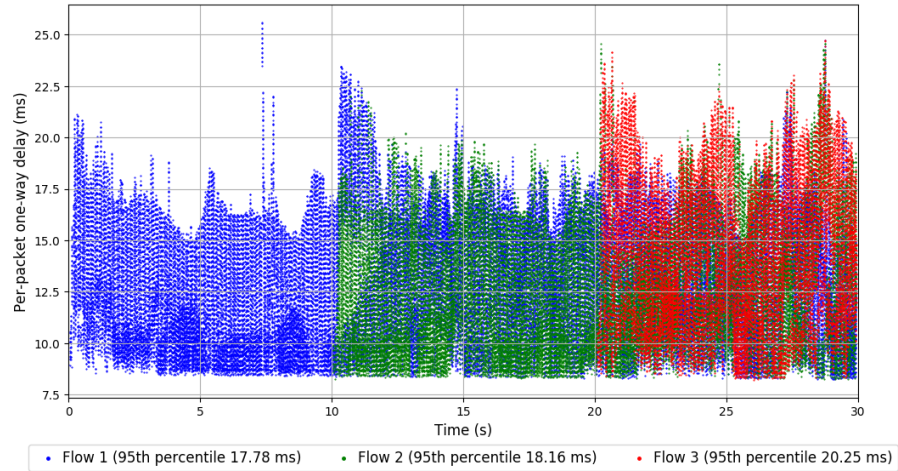
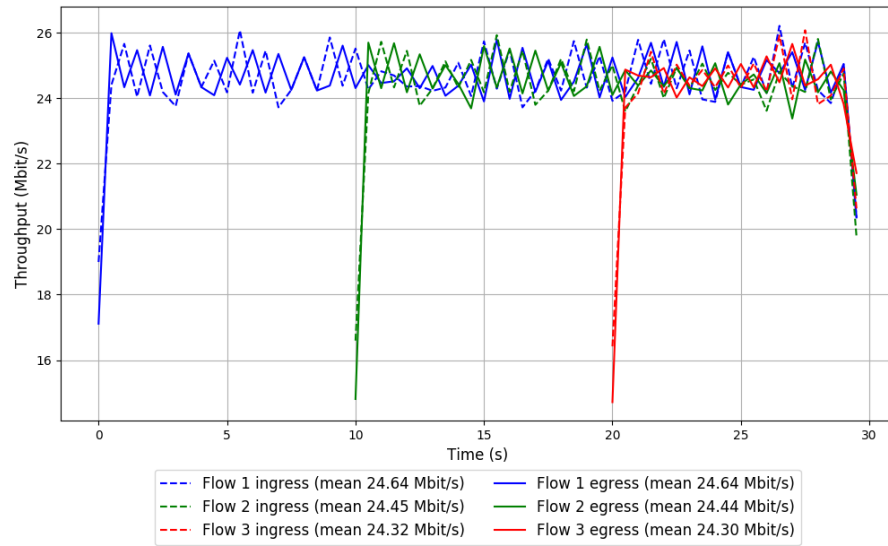
-- Flow 3:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 20.246 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

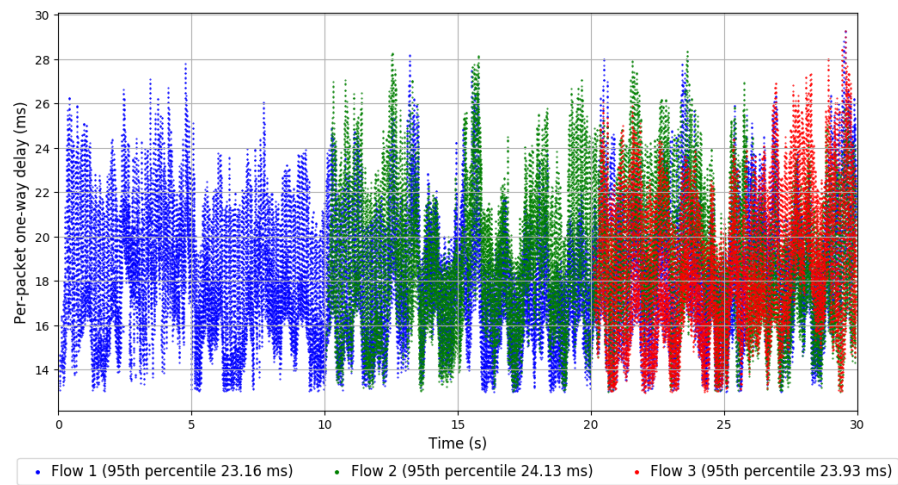
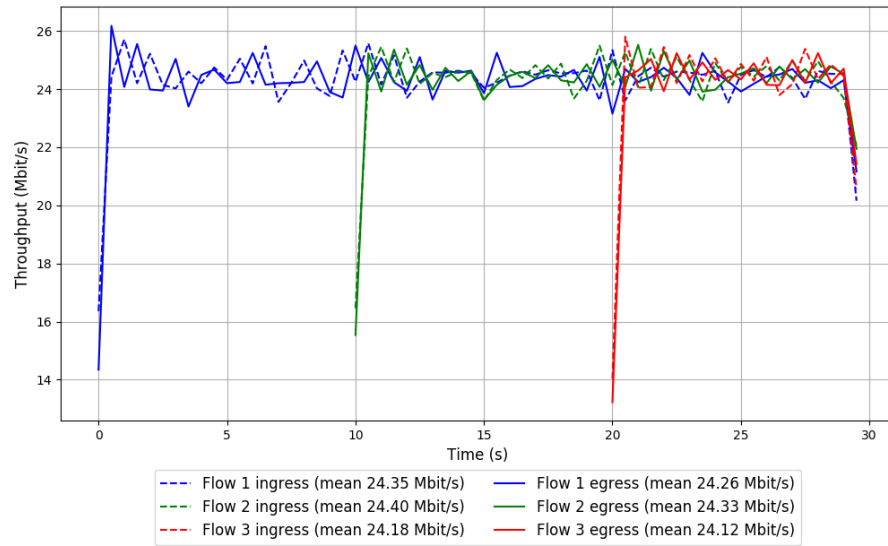


Run 8: Statistics of Sprout

Start at: 2018-03-21 06:02:02
End at: 2018-03-21 06:02:32
Local clock offset: -8.064 ms
Remote clock offset: -1.163 ms

Below is generated by plot.py at 2018-03-21 07:35:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.42 Mbit/s
95th percentile per-packet one-way delay: 23.681 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 23.165 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 24.133 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 23.932 ms
Loss rate: 0.25%

Run 8: Report of Sprout — Data Link

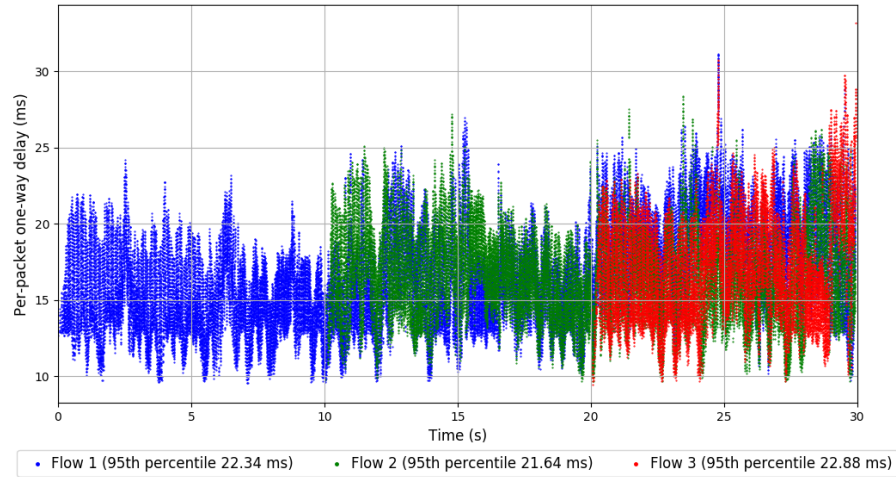
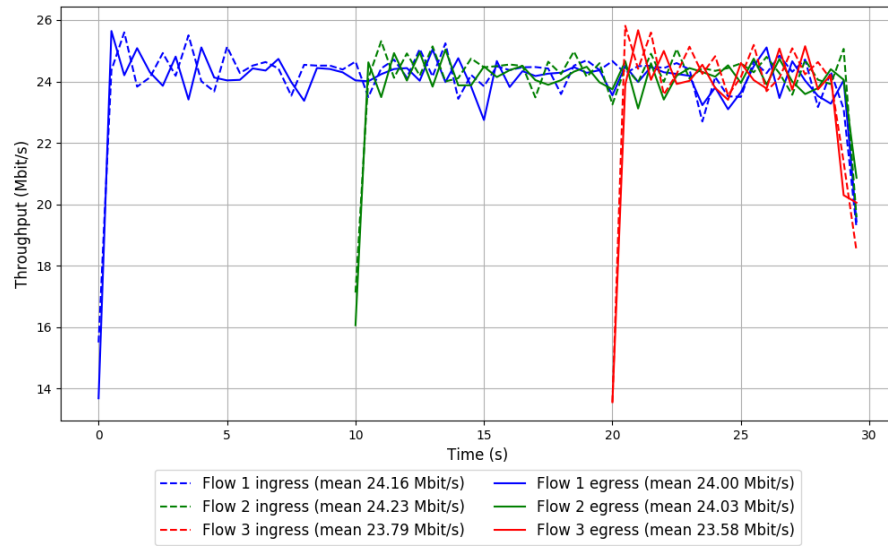


Run 9: Statistics of Sprout

Start at: 2018-03-21 06:23:21
End at: 2018-03-21 06:23:51
Local clock offset: -1.476 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-03-21 07:36:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.76 Mbit/s
95th percentile per-packet one-way delay: 22.225 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 22.335 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: 21.644 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 22.876 ms
Loss rate: 0.73%

Run 9: Report of Sprout — Data Link

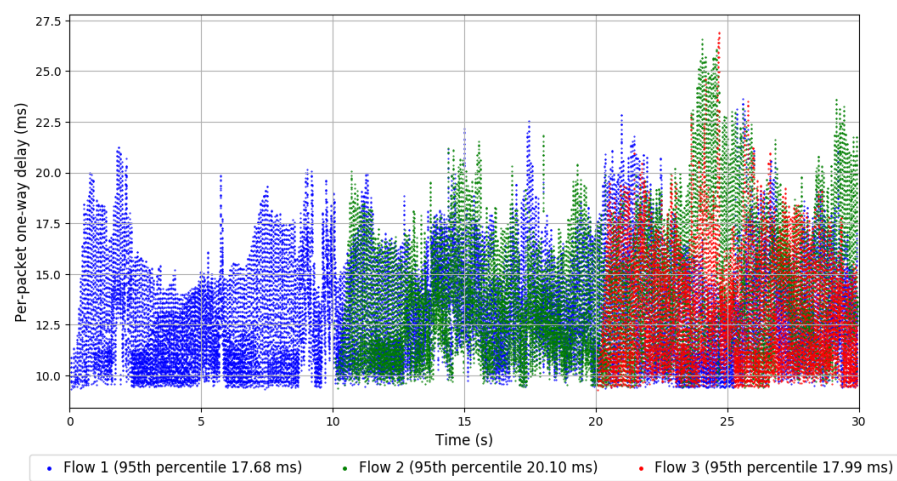
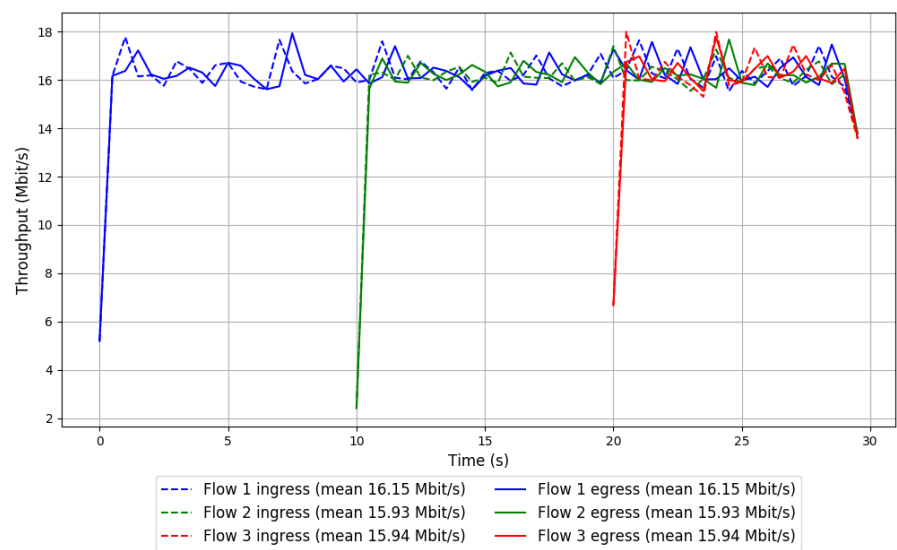


Run 10: Statistics of Sprout

Start at: 2018-03-21 06:44:43
End at: 2018-03-21 06:45:13
Local clock offset: -1.376 ms
Remote clock offset: 0.451 ms

```
# Below is generated by plot.py at 2018-03-21 07:36:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.02 Mbit/s
95th percentile per-packet one-way delay: 18.631 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.15 Mbit/s
95th percentile per-packet one-way delay: 17.684 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 20.102 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 17.991 ms
Loss rate: 0.00%
```


Run 10: Report of Sprout — Data Link

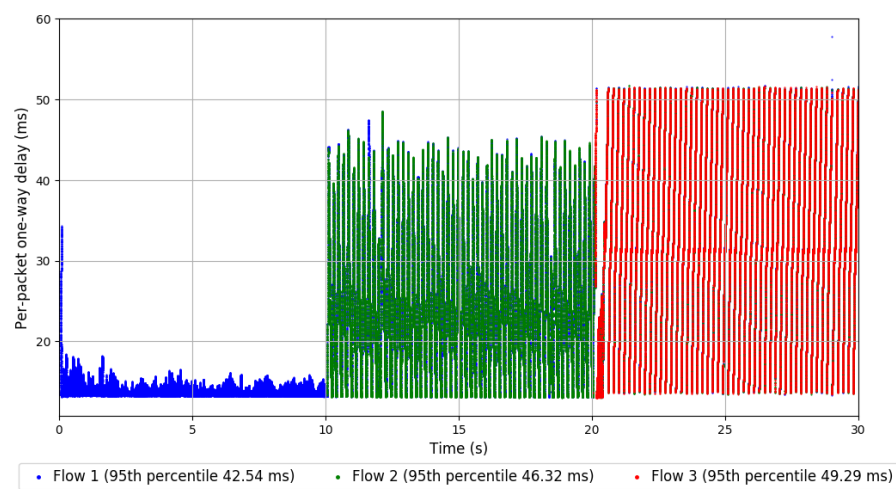
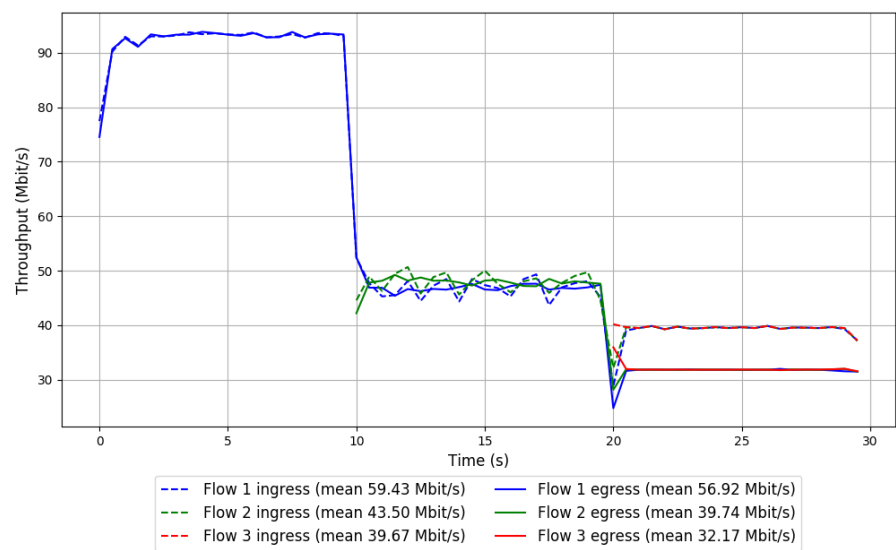


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-21 03:25:39
End at: 2018-03-21 03:26:09
Local clock offset: -13.732 ms
Remote clock offset: -4.591 ms

# Below is generated by plot.py at 2018-03-21 07:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 45.415 ms
Loss rate: 7.35%
-- Flow 1:
Average throughput: 56.92 Mbit/s
95th percentile per-packet one-way delay: 42.544 ms
Loss rate: 4.20%
-- Flow 2:
Average throughput: 39.74 Mbit/s
95th percentile per-packet one-way delay: 46.324 ms
Loss rate: 8.60%
-- Flow 3:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 49.294 ms
Loss rate: 18.80%
```

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

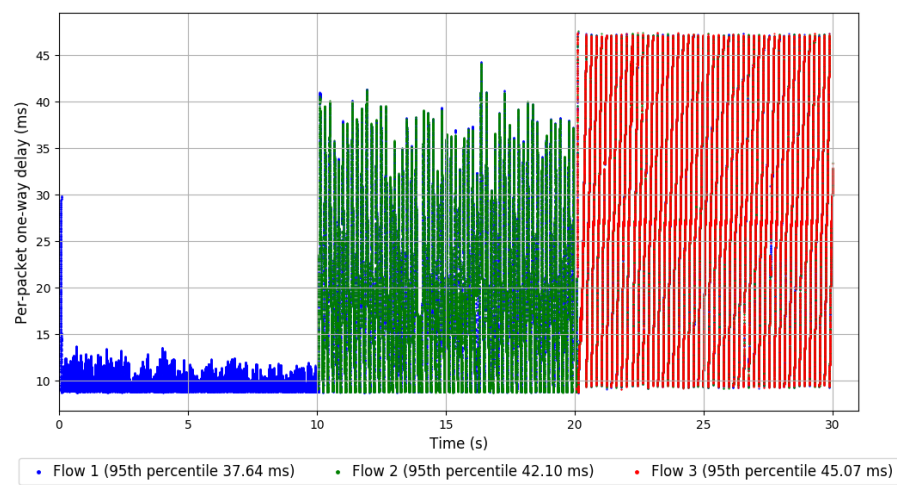
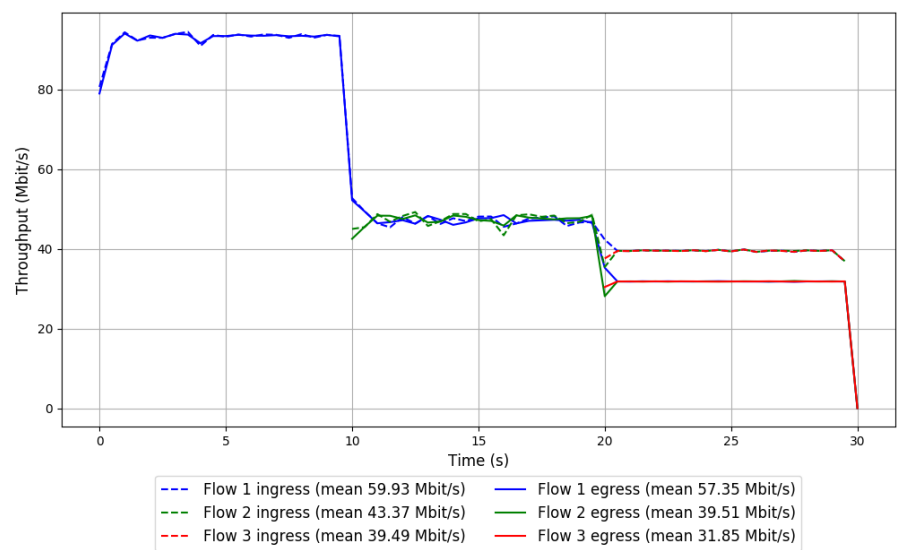


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-21 03:46:43
End at: 2018-03-21 03:47:13
Local clock offset: -11.717 ms
Remote clock offset: -3.009 ms

Below is generated by plot.py at 2018-03-21 07:37:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 41.155 ms
Loss rate: 7.45%
-- Flow 1:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 37.641 ms
Loss rate: 4.23%
-- Flow 2:
Average throughput: 39.51 Mbit/s
95th percentile per-packet one-way delay: 42.100 ms
Loss rate: 8.80%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 45.074 ms
Loss rate: 19.18%

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

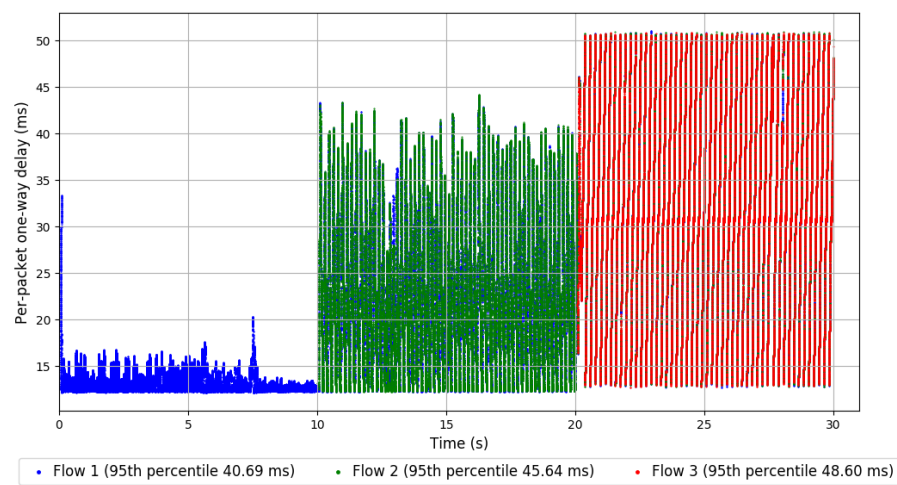
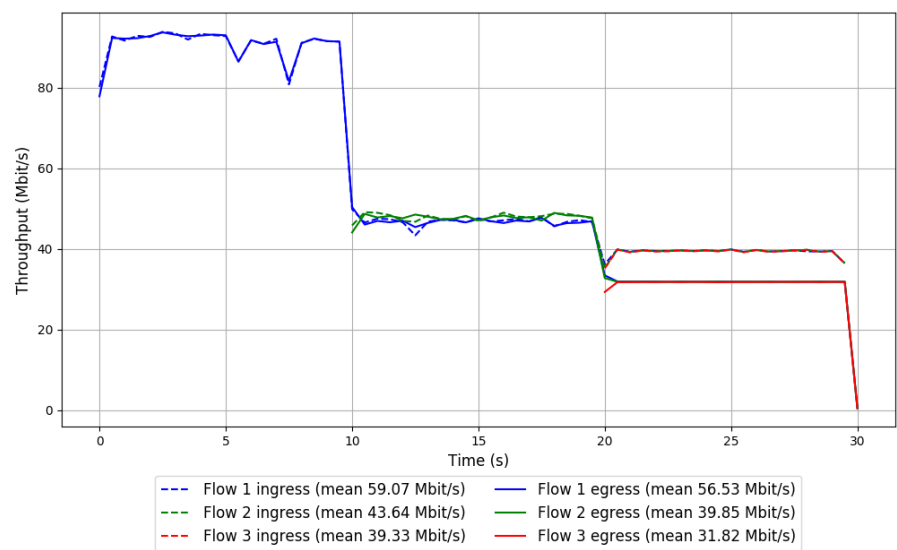


Run 3: Statistics of TaoVA-100x

Start at: 2018-03-21 04:08:24
End at: 2018-03-21 04:08:54
Local clock offset: -5.091 ms
Remote clock offset: -0.719 ms

Below is generated by plot.py at 2018-03-21 07:37:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 44.751 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 56.53 Mbit/s
95th percentile per-packet one-way delay: 40.686 ms
Loss rate: 4.18%
-- Flow 2:
Average throughput: 39.85 Mbit/s
95th percentile per-packet one-way delay: 45.639 ms
Loss rate: 8.52%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 48.602 ms
Loss rate: 18.99%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-21 04:30:09

End at: 2018-03-21 04:30:39

Local clock offset: 2.695 ms

Remote clock offset: 2.568 ms

Below is generated by plot.py at 2018-03-21 07:38:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 40.823 ms

Loss rate: 7.52%

-- Flow 1:

Average throughput: 57.12 Mbit/s

95th percentile per-packet one-way delay: 37.107 ms

Loss rate: 4.28%

-- Flow 2:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 41.766 ms

Loss rate: 8.85%

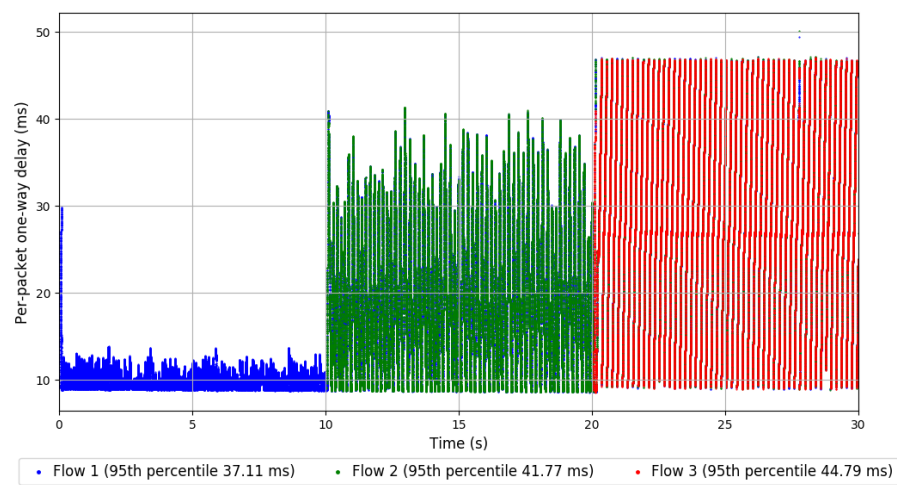
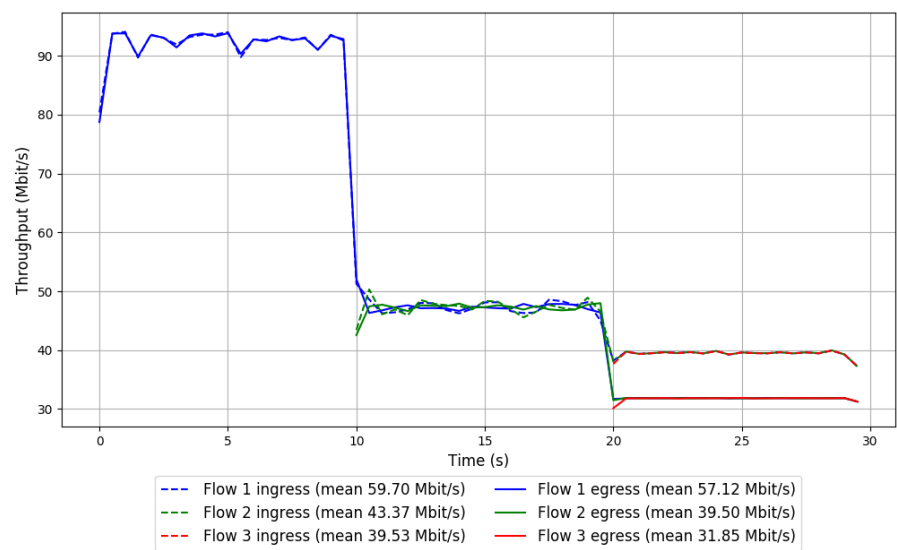
-- Flow 3:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 44.794 ms

Loss rate: 19.35%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-21 04:51:14

End at: 2018-03-21 04:51:44

Local clock offset: -6.256 ms

Remote clock offset: 2.988 ms

Below is generated by plot.py at 2018-03-21 07:38:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 44.366 ms

Loss rate: 7.48%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 40.011 ms

Loss rate: 4.27%

-- Flow 2:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 45.167 ms

Loss rate: 8.71%

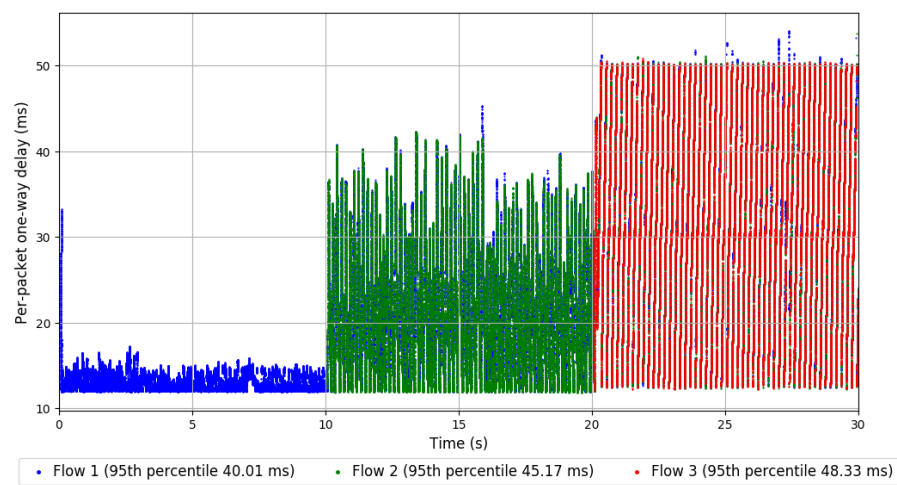
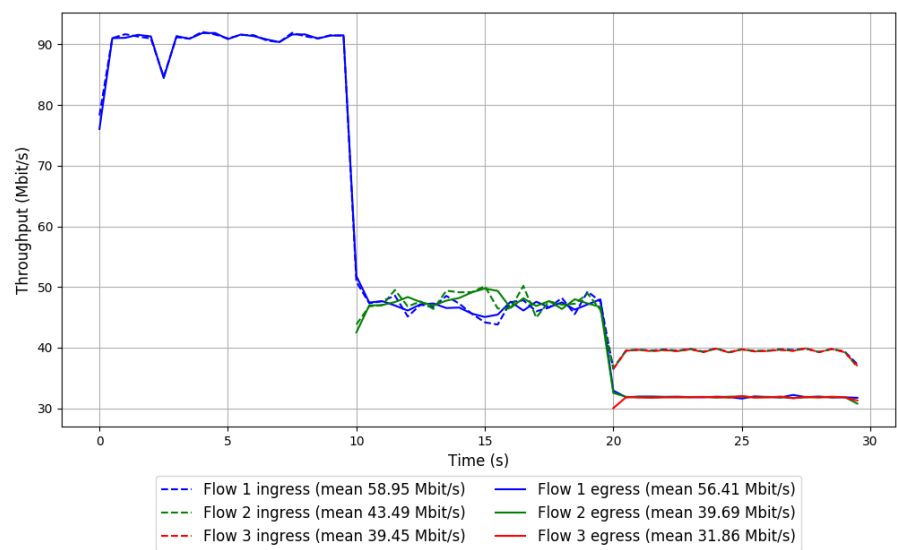
-- Flow 3:

Average throughput: 31.86 Mbit/s

95th percentile per-packet one-way delay: 48.333 ms

Loss rate: 19.21%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-21 05:12:14

End at: 2018-03-21 05:12:44

Local clock offset: -2.702 ms

Remote clock offset: 2.832 ms

Below is generated by plot.py at 2018-03-21 07:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.48 Mbit/s

95th percentile per-packet one-way delay: 45.284 ms

Loss rate: 7.35%

-- Flow 1:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 41.473 ms

Loss rate: 4.19%

-- Flow 2:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 46.105 ms

Loss rate: 8.50%

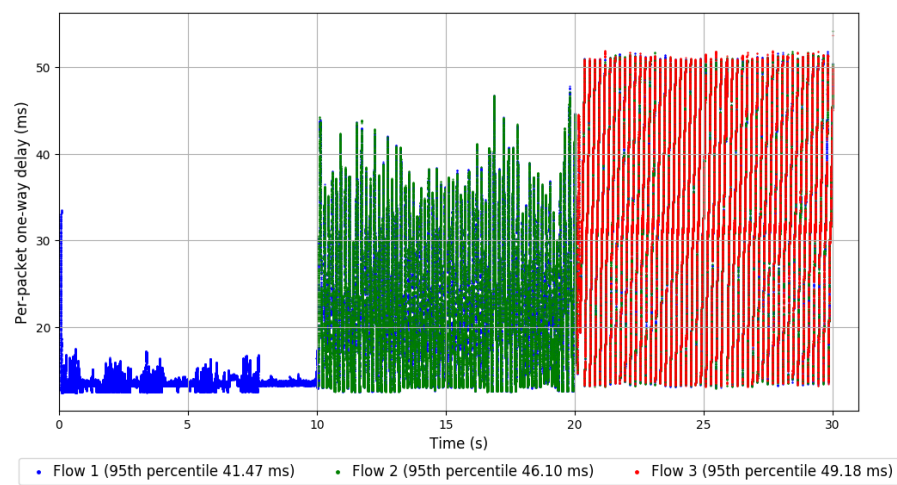
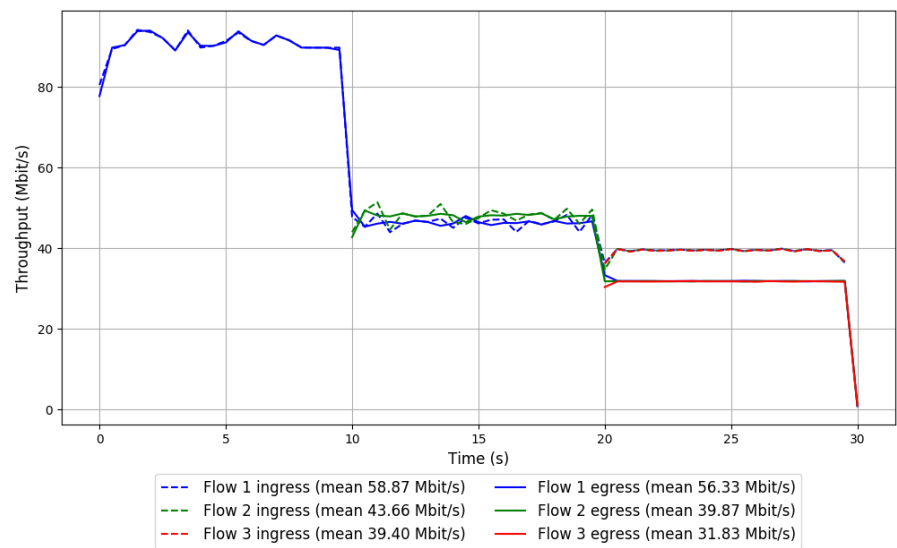
-- Flow 3:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 49.179 ms

Loss rate: 18.98%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-21 05:33:28

End at: 2018-03-21 05:33:58

Local clock offset: 0.381 ms

Remote clock offset: 1.266 ms

Below is generated by plot.py at 2018-03-21 07:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 33.836 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 32.653 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 34.647 ms

Loss rate: 0.24%

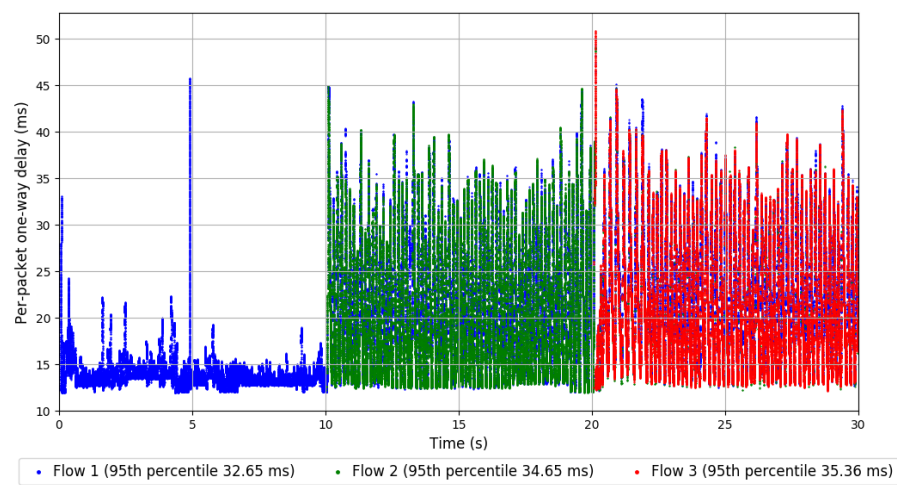
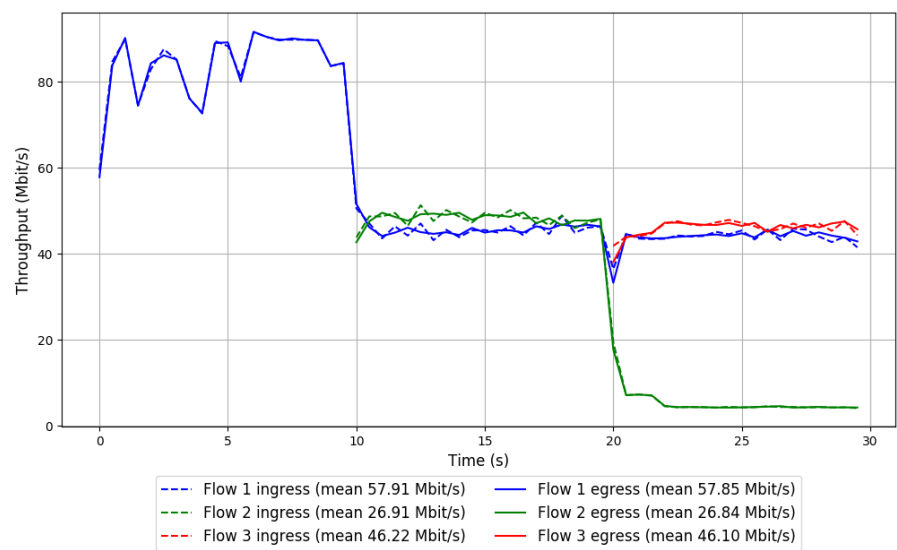
-- Flow 3:

Average throughput: 46.10 Mbit/s

95th percentile per-packet one-way delay: 35.358 ms

Loss rate: 0.21%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-21 05:54:51

End at: 2018-03-21 05:55:21

Local clock offset: -4.987 ms

Remote clock offset: -1.36 ms

Below is generated by plot.py at 2018-03-21 07:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.46 Mbit/s

95th percentile per-packet one-way delay: 45.346 ms

Loss rate: 8.43%

-- Flow 1:

Average throughput: 53.98 Mbit/s

95th percentile per-packet one-way delay: 41.943 ms

Loss rate: 5.11%

-- Flow 2:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 46.196 ms

Loss rate: 9.82%

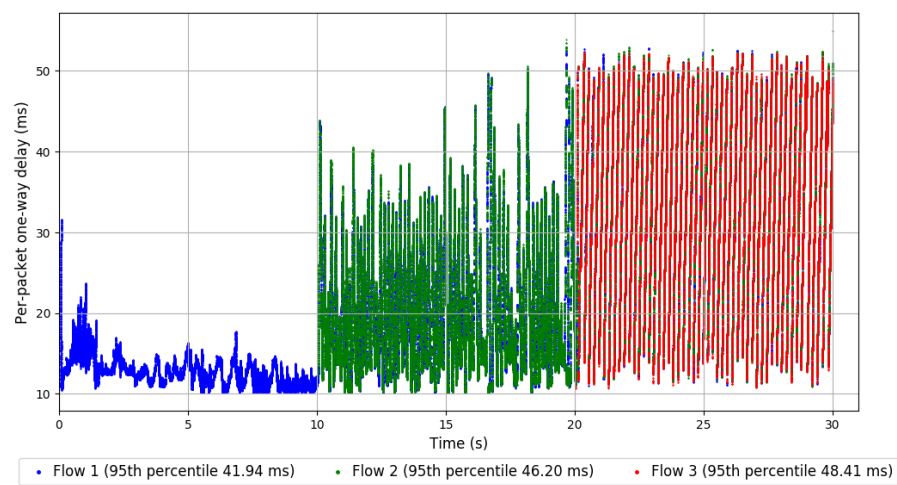
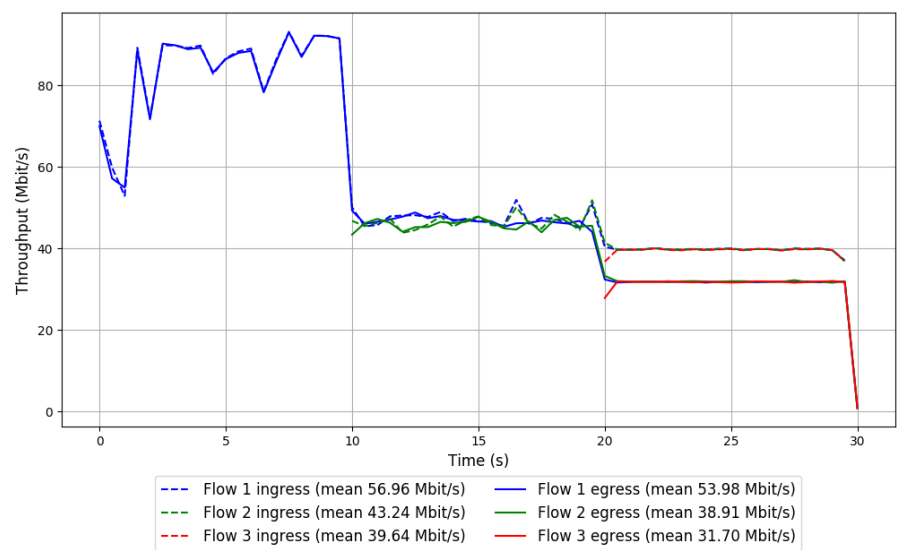
-- Flow 3:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 48.406 ms

Loss rate: 19.74%

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

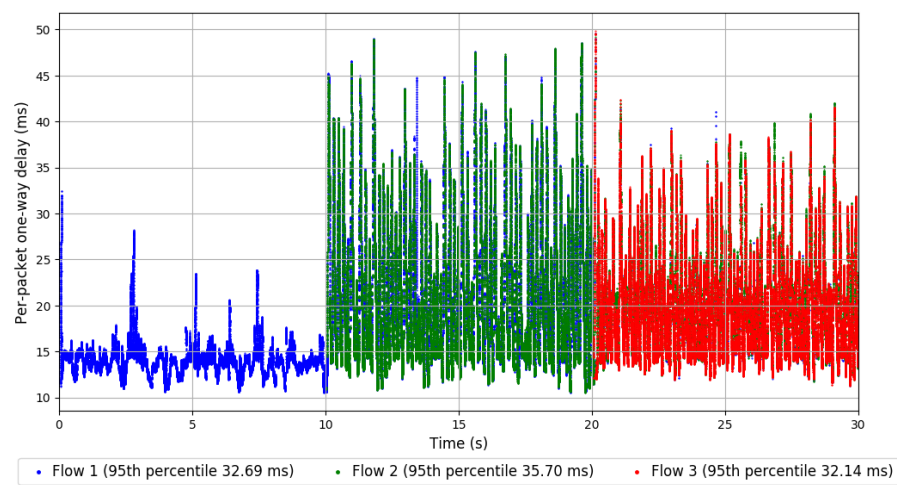
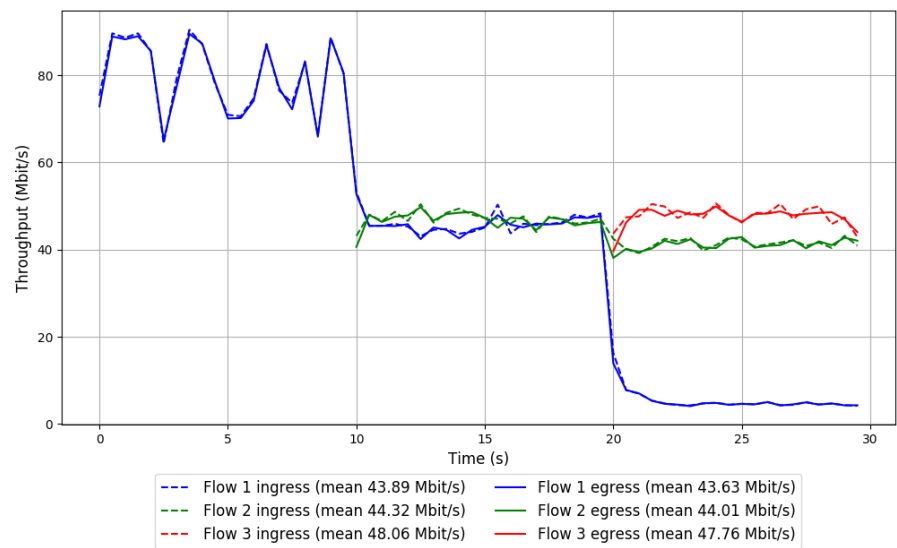


Run 9: Statistics of TaoVA-100x

Start at: 2018-03-21 06:16:16
End at: 2018-03-21 06:16:46
Local clock offset: -5.416 ms
Remote clock offset: -2.941 ms

Below is generated by plot.py at 2018-03-21 07:40:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.80 Mbit/s
95th percentile per-packet one-way delay: 33.943 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 43.63 Mbit/s
95th percentile per-packet one-way delay: 32.686 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 44.01 Mbit/s
95th percentile per-packet one-way delay: 35.698 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 47.76 Mbit/s
95th percentile per-packet one-way delay: 32.136 ms
Loss rate: 0.62%

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

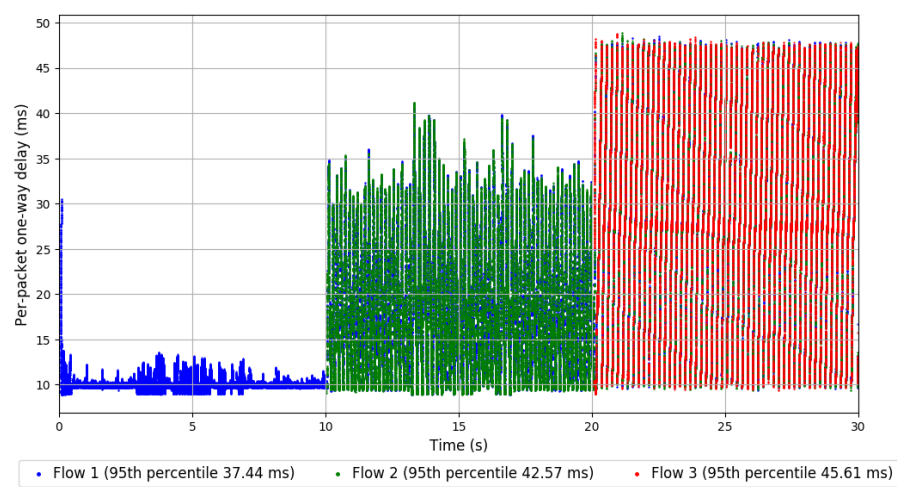
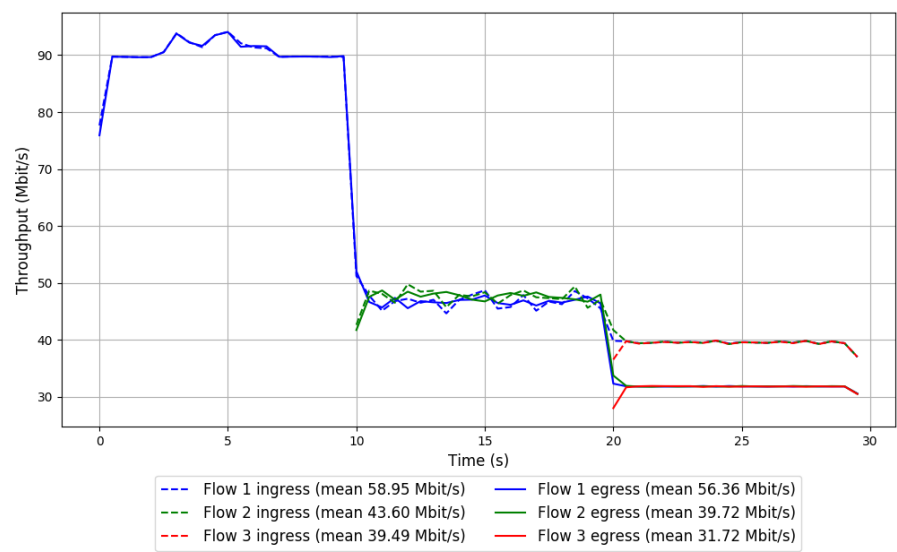


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-21 06:37:26
End at: 2018-03-21 06:37:56
Local clock offset: -0.902 ms
Remote clock offset: 0.274 ms

# Below is generated by plot.py at 2018-03-21 07:40:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 41.725 ms
Loss rate: 7.65%
-- Flow 1:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 37.440 ms
Loss rate: 4.38%
-- Flow 2:
Average throughput: 39.72 Mbit/s
95th percentile per-packet one-way delay: 42.566 ms
Loss rate: 8.89%
-- Flow 3:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 45.610 ms
Loss rate: 19.63%
```

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

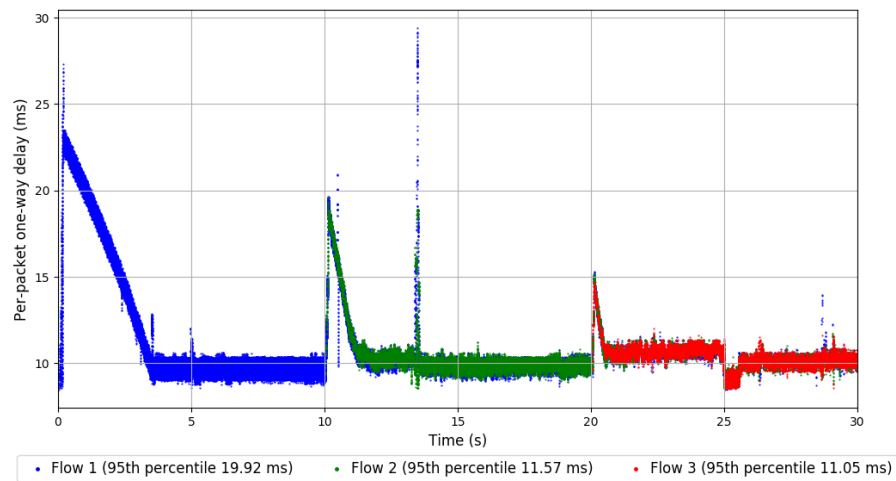
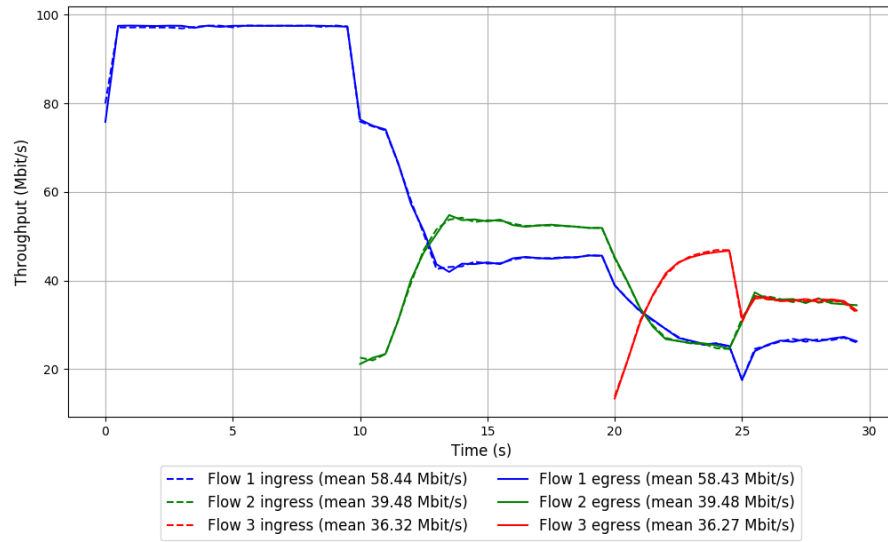


Run 1: Statistics of TCP Vegas

Start at: 2018-03-21 03:22:12
End at: 2018-03-21 03:22:42
Local clock offset: -9.72 ms
Remote clock offset: -5.776 ms

Below is generated by plot.py at 2018-03-21 07:40:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.73 Mbit/s
95th percentile per-packet one-way delay: 18.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 19.916 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 11.570 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.27 Mbit/s
95th percentile per-packet one-way delay: 11.053 ms
Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link

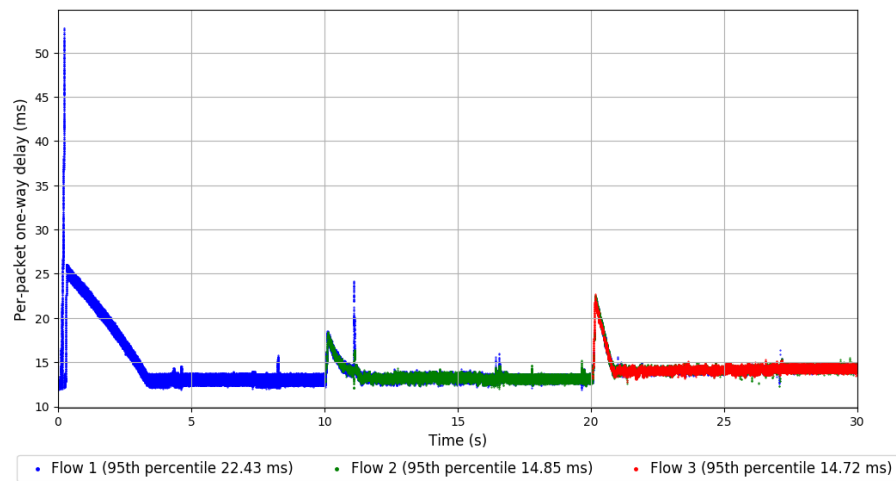
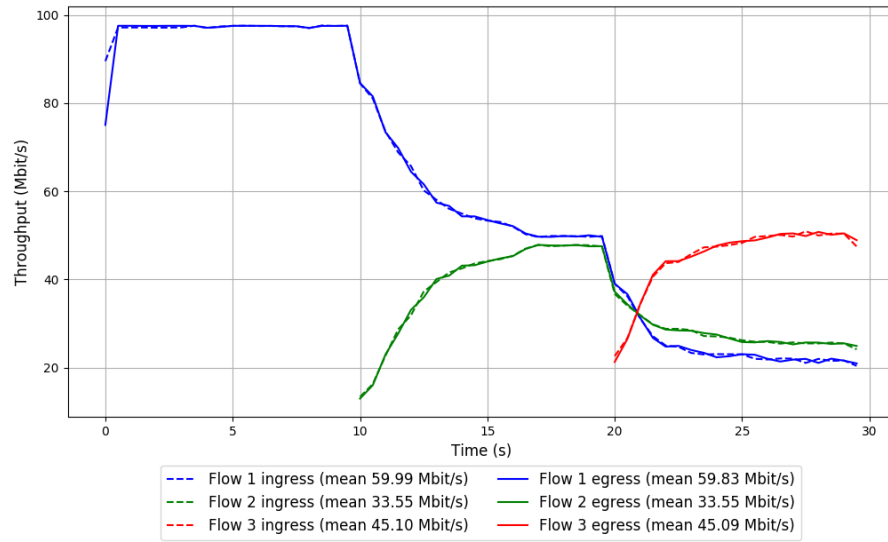


Run 2: Statistics of TCP Vegas

Start at: 2018-03-21 03:43:16
End at: 2018-03-21 03:43:46
Local clock offset: -14.751 ms
Remote clock offset: -3.349 ms

Below is generated by plot.py at 2018-03-21 07:40:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 20.730 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 22.435 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 33.55 Mbit/s
95th percentile per-packet one-way delay: 14.852 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 14.720 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-21 04:04:54

End at: 2018-03-21 04:05:24

Local clock offset: -5.604 ms

Remote clock offset: -0.64 ms

Below is generated by plot.py at 2018-03-21 07:40:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.96 Mbit/s

95th percentile per-packet one-way delay: 16.416 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 58.35 Mbit/s

95th percentile per-packet one-way delay: 17.777 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 14.547 ms

Loss rate: 0.00%

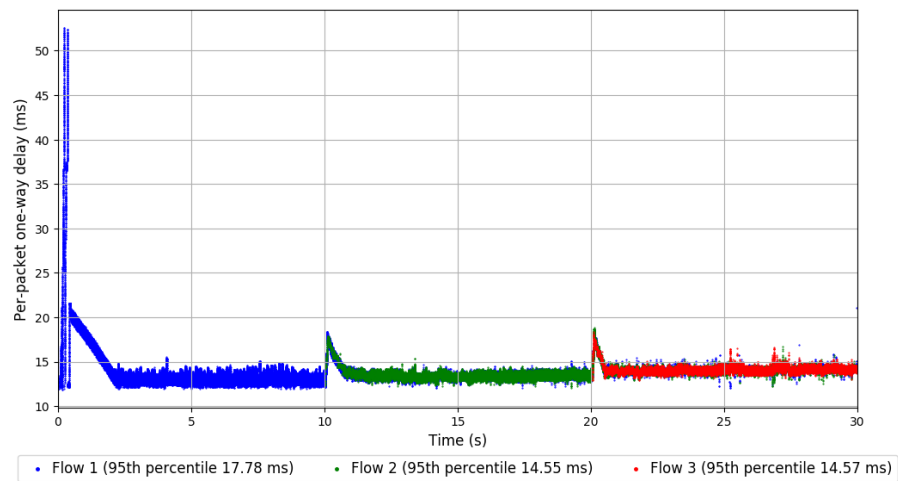
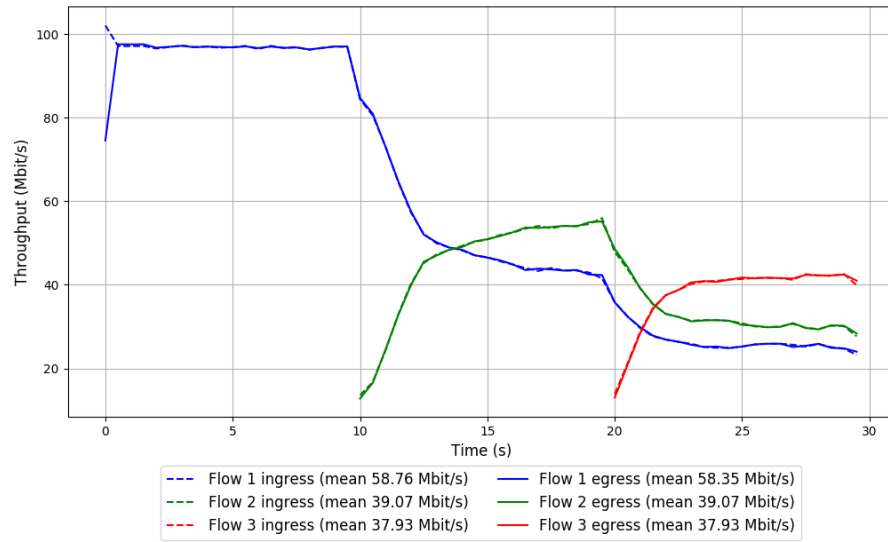
-- Flow 3:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 14.568 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-21 04:26:38

End at: 2018-03-21 04:27:08

Local clock offset: 3.445 ms

Remote clock offset: 0.443 ms

Below is generated by plot.py at 2018-03-21 07:40:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 17.767 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 17.234 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 22.783 ms

Loss rate: 0.00%

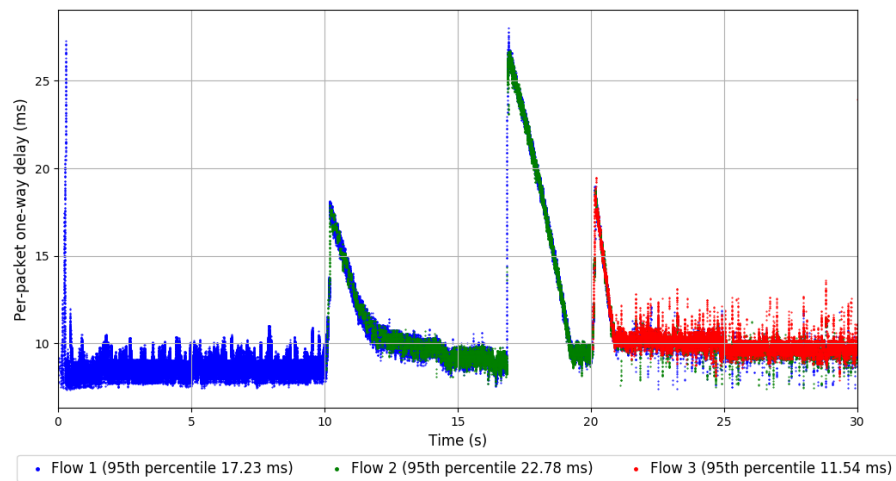
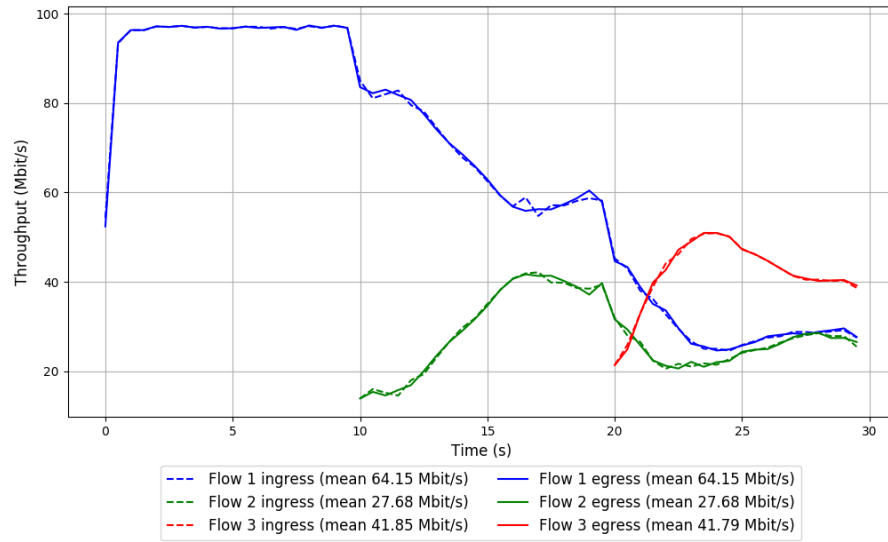
-- Flow 3:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 11.543 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-21 04:47:45

End at: 2018-03-21 04:48:15

Local clock offset: -5.725 ms

Remote clock offset: 2.305 ms

Below is generated by plot.py at 2018-03-21 07:40:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 20.538 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 62.63 Mbit/s

95th percentile per-packet one-way delay: 22.180 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 13.960 ms

Loss rate: 0.00%

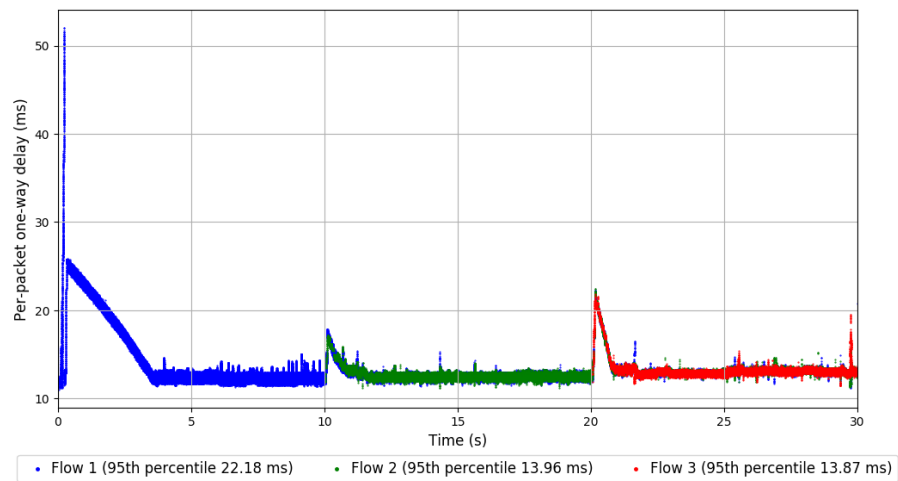
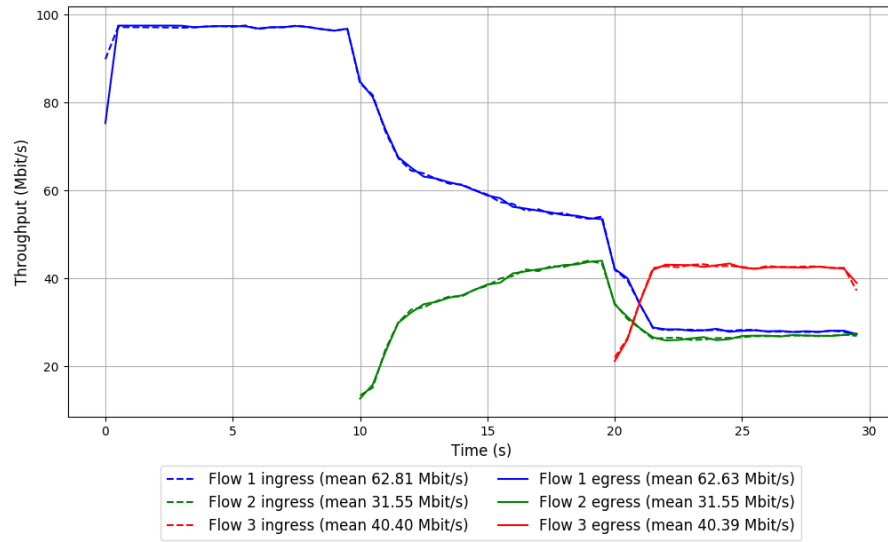
-- Flow 3:

Average throughput: 40.39 Mbit/s

95th percentile per-packet one-way delay: 13.871 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-21 05:08:48

End at: 2018-03-21 05:09:18

Local clock offset: -1.751 ms

Remote clock offset: 3.865 ms

Below is generated by plot.py at 2018-03-21 07:40:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 17.886 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.72 Mbit/s

95th percentile per-packet one-way delay: 17.290 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 19.953 ms

Loss rate: 0.00%

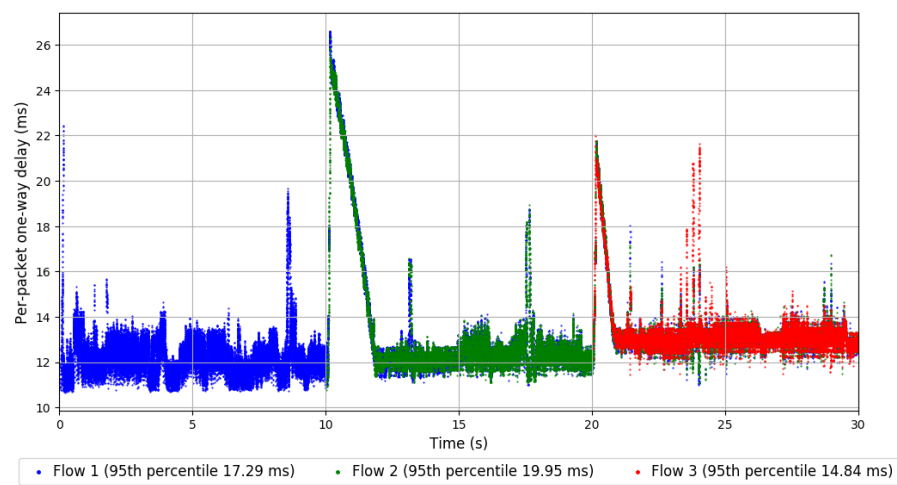
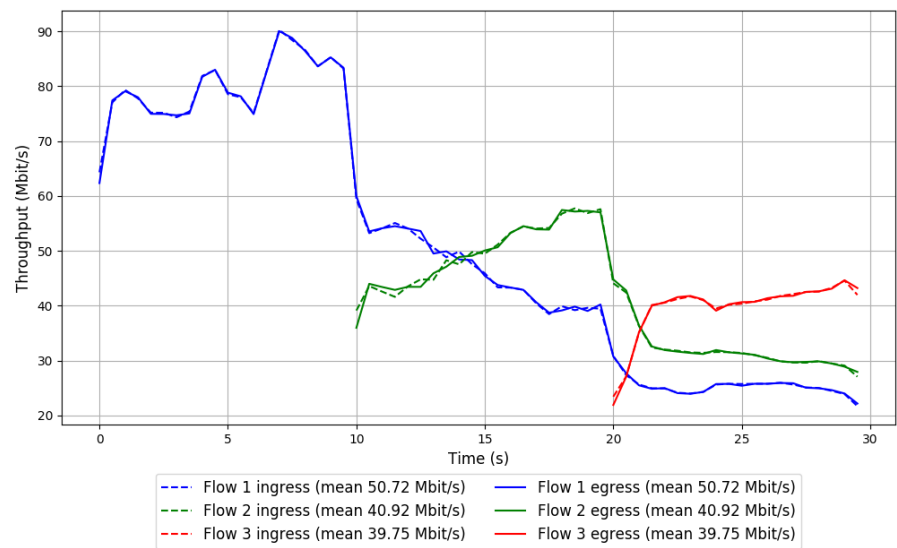
-- Flow 3:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 14.837 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-21 05:30:02

End at: 2018-03-21 05:30:32

Local clock offset: 0.844 ms

Remote clock offset: 1.021 ms

Below is generated by plot.py at 2018-03-21 07:40:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 22.453 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.98 Mbit/s

95th percentile per-packet one-way delay: 23.403 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 20.494 ms

Loss rate: 0.00%

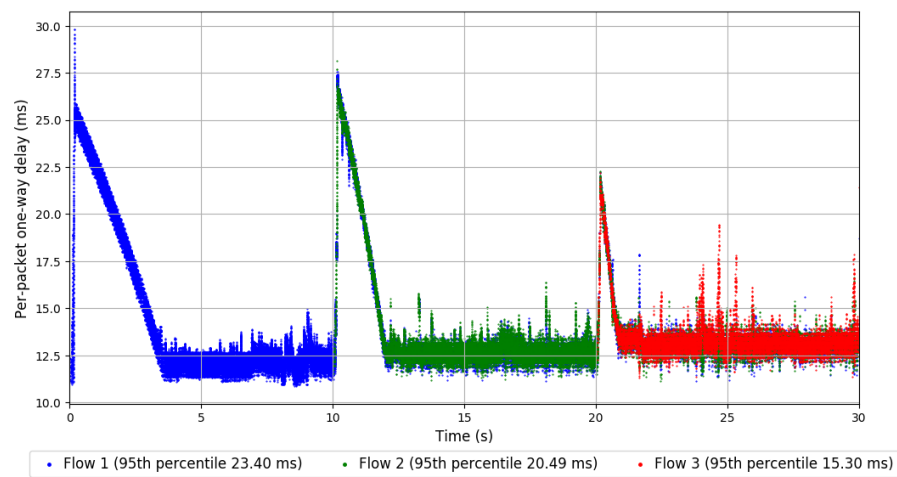
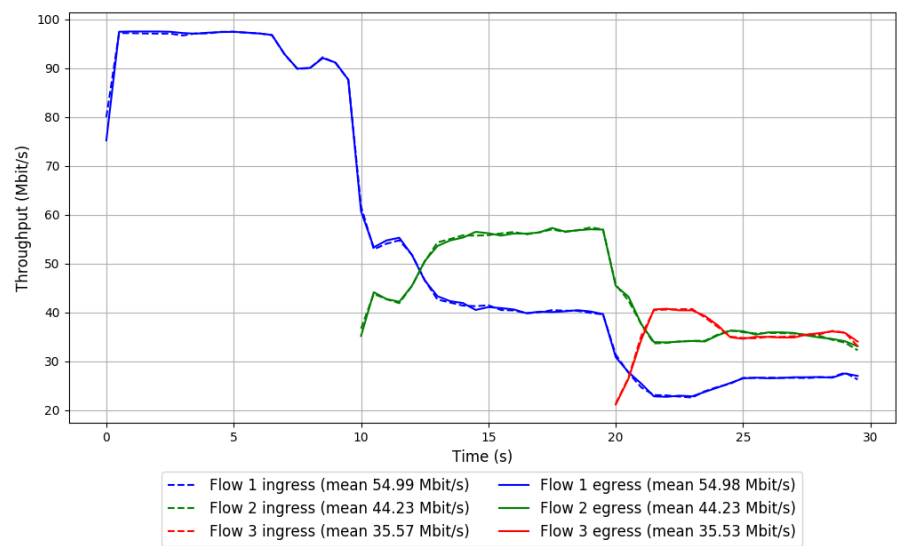
-- Flow 3:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 15.301 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link

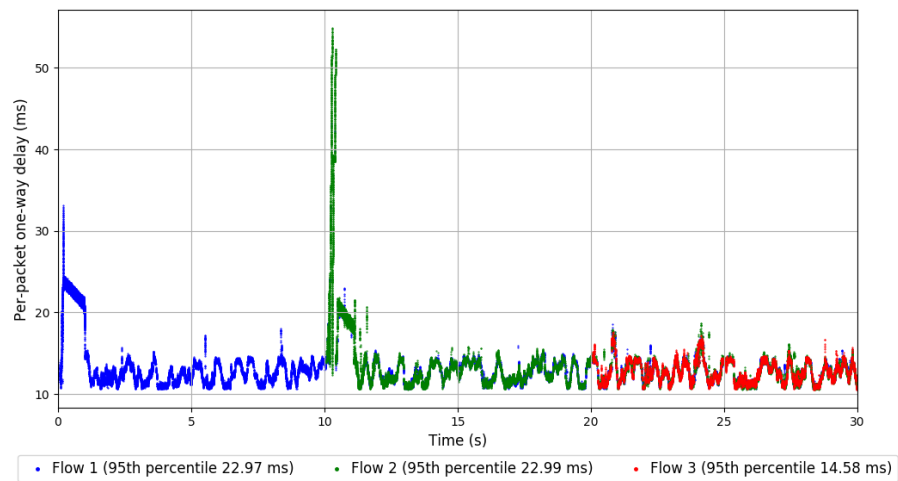
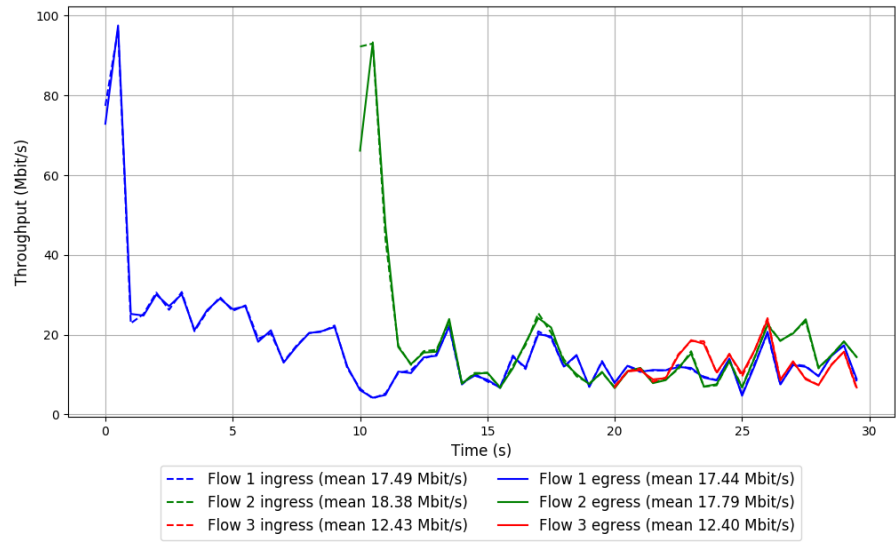


Run 8: Statistics of TCP Vegas

Start at: 2018-03-21 05:51:17
End at: 2018-03-21 05:51:47
Local clock offset: -5.197 ms
Remote clock offset: -1.422 ms

Below is generated by plot.py at 2018-03-21 07:40:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 22.791 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 17.44 Mbit/s
95th percentile per-packet one-way delay: 22.971 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 22.990 ms
Loss rate: 3.21%
-- Flow 3:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 14.581 ms
Loss rate: 0.26%

Run 8: Report of TCP Vegas — Data Link

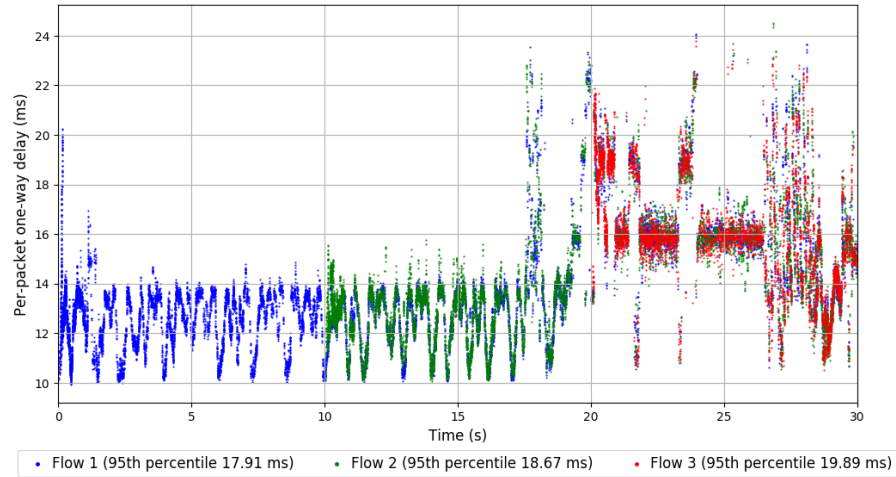
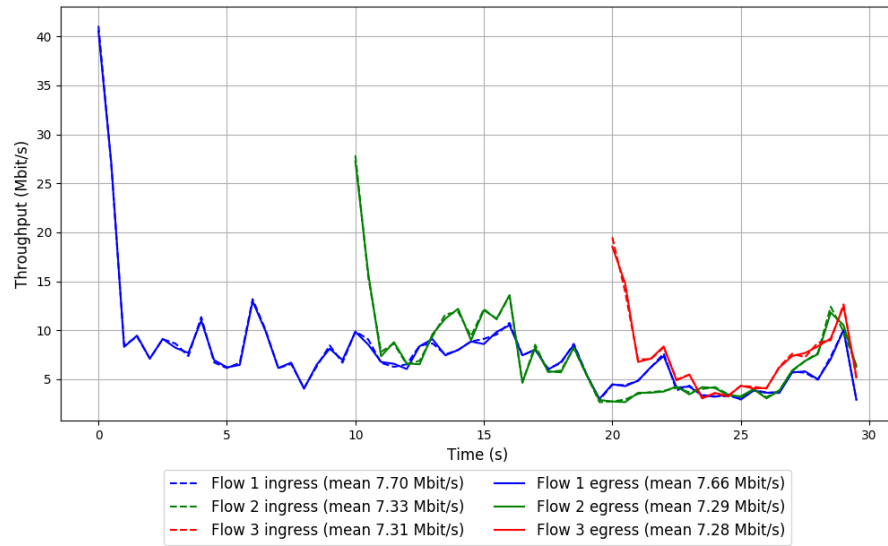


Run 9: Statistics of TCP Vegas

Start at: 2018-03-21 06:12:48
End at: 2018-03-21 06:13:18
Local clock offset: -4.2 ms
Remote clock offset: -1.192 ms

Below is generated by plot.py at 2018-03-21 07:40:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 19.095 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 17.910 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 18.666 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 19.893 ms
Loss rate: 0.38%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-21 06:33:55

End at: 2018-03-21 06:34:25

Local clock offset: -0.328 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2018-03-21 07:40:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.83 Mbit/s

95th percentile per-packet one-way delay: 15.938 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 18.245 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.21 Mbit/s

95th percentile per-packet one-way delay: 12.533 ms

Loss rate: 0.00%

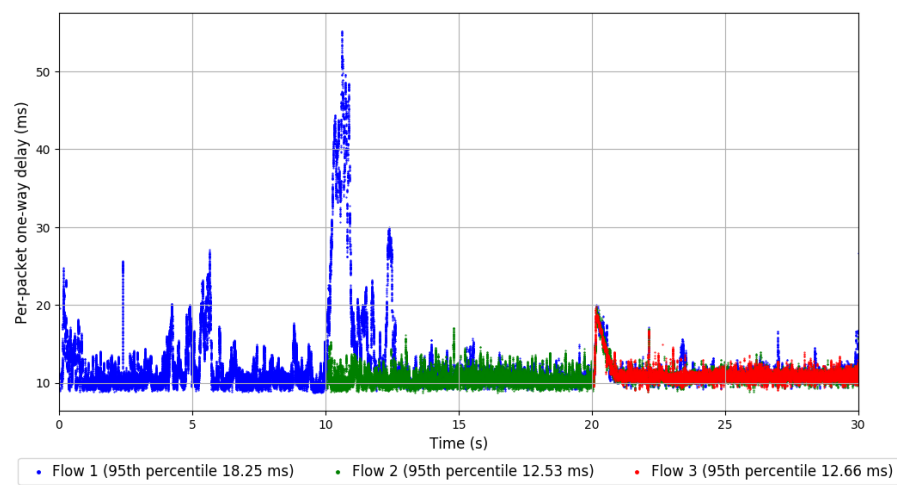
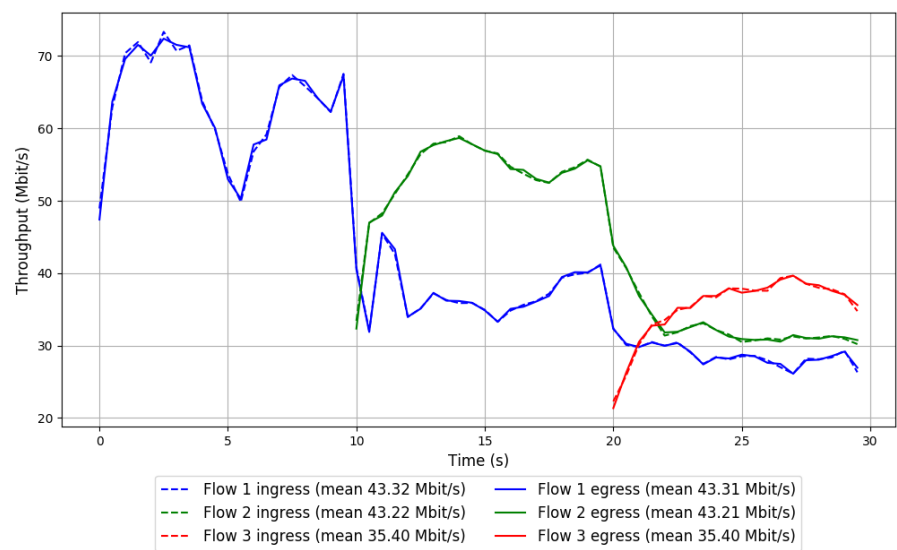
-- Flow 3:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 12.658 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

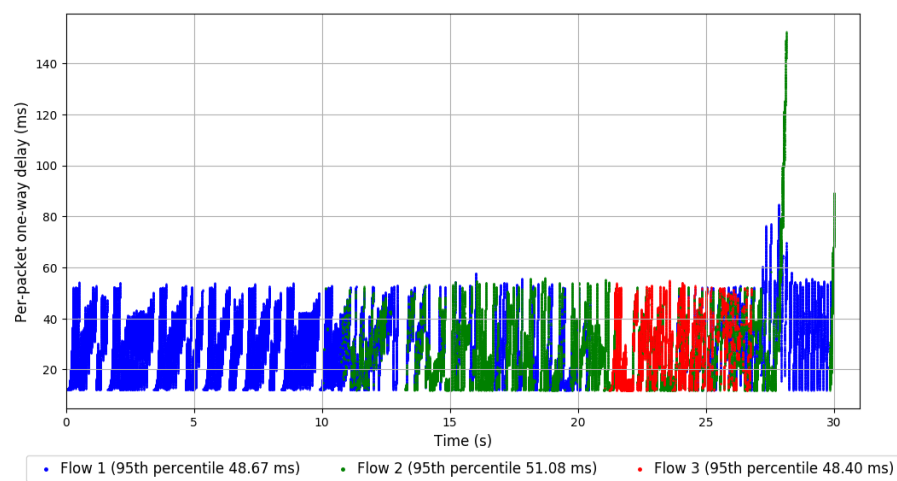
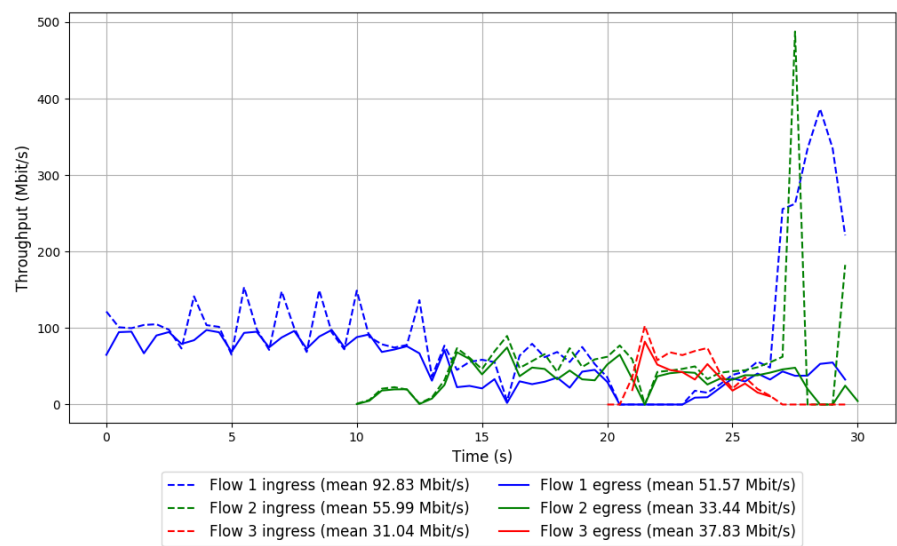


Run 1: Statistics of Verus

Start at: 2018-03-21 03:31:33
End at: 2018-03-21 03:32:03
Local clock offset: -12.909 ms
Remote clock offset: -3.367 ms

Below is generated by plot.py at 2018-03-21 07:41:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.85 Mbit/s
95th percentile per-packet one-way delay: 49.108 ms
Loss rate: 42.07%
-- Flow 1:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 48.668 ms
Loss rate: 44.41%
-- Flow 2:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 40.05%
-- Flow 3:
Average throughput: 37.83 Mbit/s
95th percentile per-packet one-way delay: 48.399 ms
Loss rate: 28.00%

Run 1: Report of Verus — Data Link

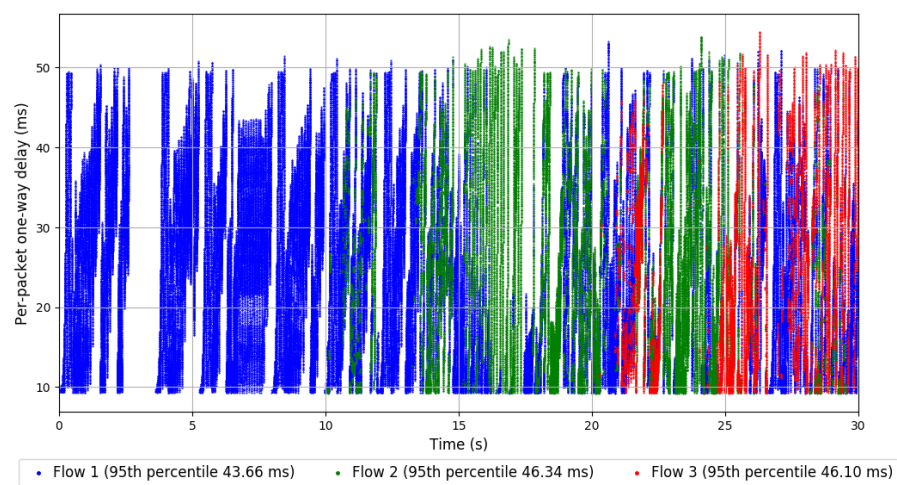
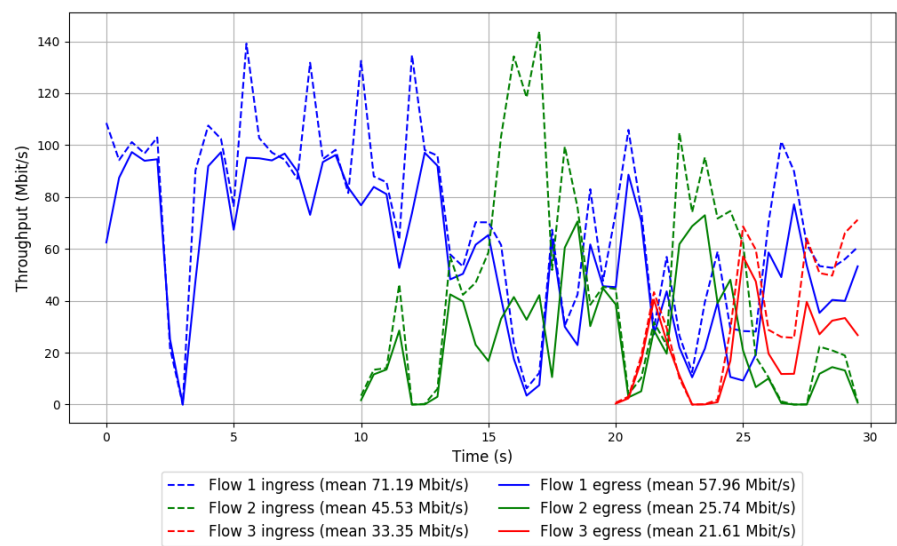


Run 2: Statistics of Verus

Start at: 2018-03-21 03:52:48
End at: 2018-03-21 03:53:18
Local clock offset: -12.608 ms
Remote clock offset: -2.73 ms

Below is generated by plot.py at 2018-03-21 07:41:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.80 Mbit/s
95th percentile per-packet one-way delay: 44.607 ms
Loss rate: 26.79%
-- Flow 1:
Average throughput: 57.96 Mbit/s
95th percentile per-packet one-way delay: 43.665 ms
Loss rate: 18.53%
-- Flow 2:
Average throughput: 25.74 Mbit/s
95th percentile per-packet one-way delay: 46.336 ms
Loss rate: 43.52%
-- Flow 3:
Average throughput: 21.61 Mbit/s
95th percentile per-packet one-way delay: 46.098 ms
Loss rate: 35.03%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-21 04:14:18

End at: 2018-03-21 04:14:48

Local clock offset: 0.614 ms

Remote clock offset: 0.417 ms

Below is generated by plot.py at 2018-03-21 07:41:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 45.342 ms

Loss rate: 28.14%

-- Flow 1:

Average throughput: 40.93 Mbit/s

95th percentile per-packet one-way delay: 44.253 ms

Loss rate: 20.21%

-- Flow 2:

Average throughput: 44.25 Mbit/s

95th percentile per-packet one-way delay: 46.575 ms

Loss rate: 36.05%

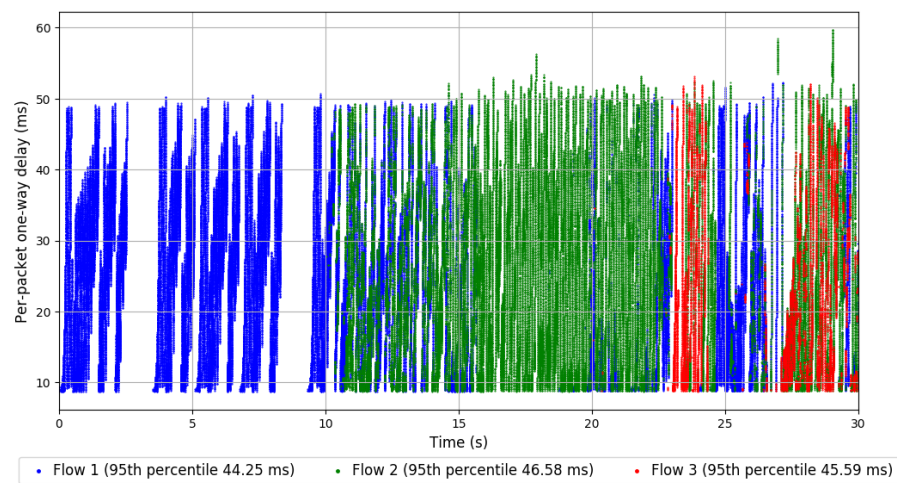
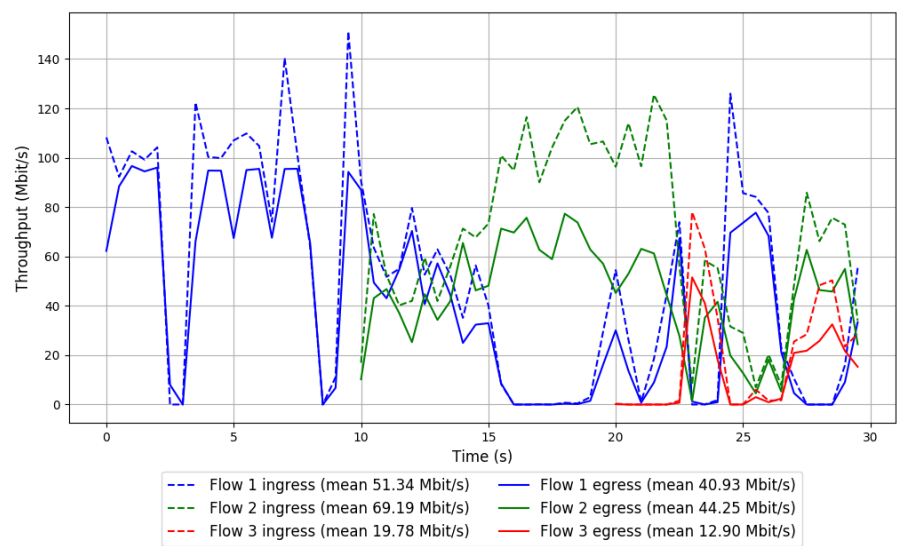
-- Flow 3:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 45.585 ms

Loss rate: 34.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-21 04:36:02

End at: 2018-03-21 04:36:32

Local clock offset: -0.907 ms

Remote clock offset: 2.528 ms

Below is generated by plot.py at 2018-03-21 07:41:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 45.337 ms

Loss rate: 32.96%

-- Flow 1:

Average throughput: 54.11 Mbit/s

95th percentile per-packet one-way delay: 45.596 ms

Loss rate: 33.75%

-- Flow 2:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 45.304 ms

Loss rate: 31.41%

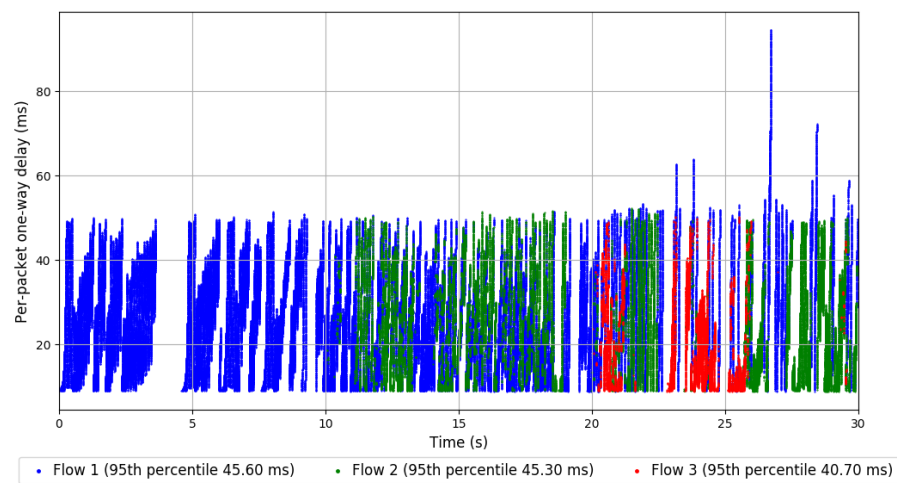
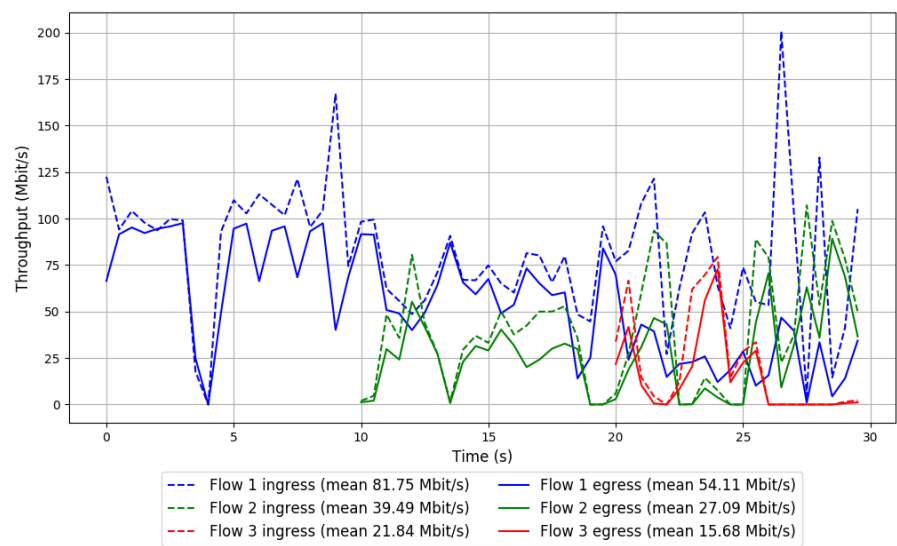
-- Flow 3:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 40.696 ms

Loss rate: 29.68%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-21 04:57:08

End at: 2018-03-21 04:57:38

Local clock offset: -5.57 ms

Remote clock offset: 2.776 ms

Below is generated by plot.py at 2018-03-21 07:41:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.08 Mbit/s

95th percentile per-packet one-way delay: 46.316 ms

Loss rate: 23.29%

-- Flow 1:

Average throughput: 52.22 Mbit/s

95th percentile per-packet one-way delay: 46.422 ms

Loss rate: 23.87%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 46.182 ms

Loss rate: 21.98%

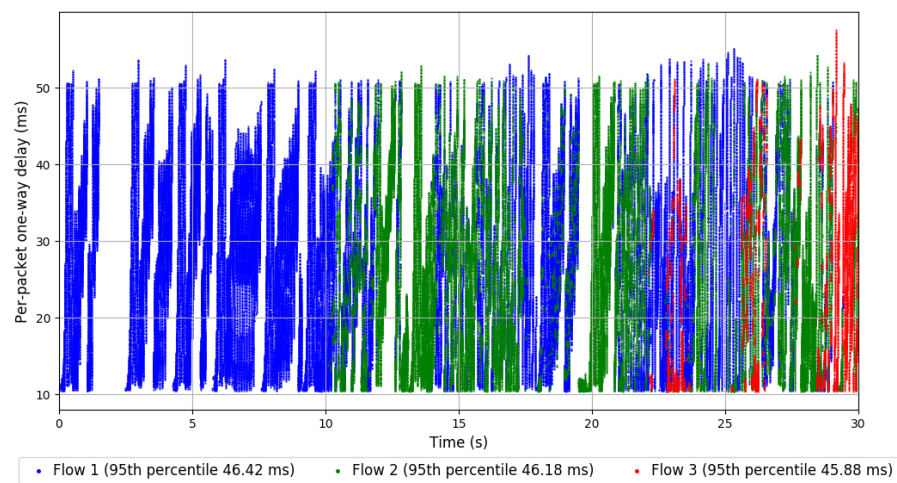
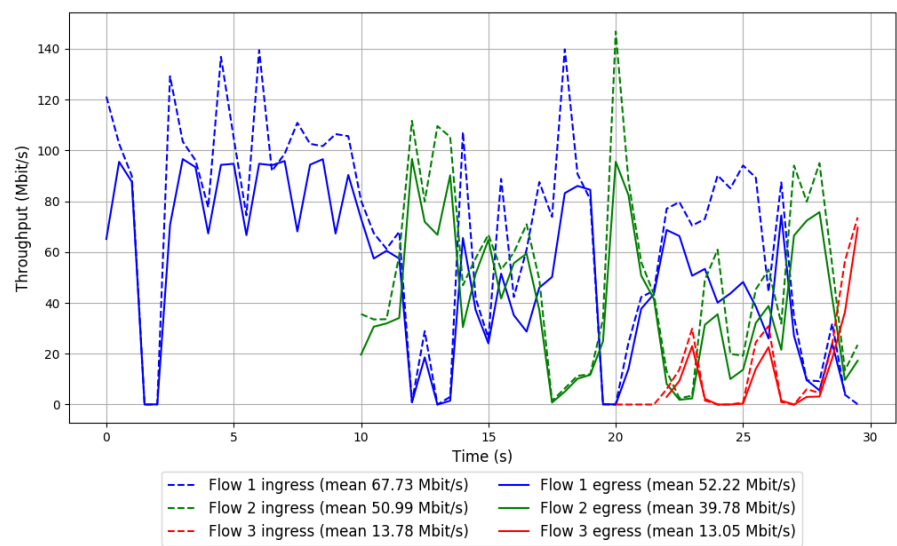
-- Flow 3:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 45.885 ms

Loss rate: 24.42%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-21 05:18:16

End at: 2018-03-21 05:18:46

Local clock offset: 1.609 ms

Remote clock offset: 1.92 ms

Below is generated by plot.py at 2018-03-21 07:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.28 Mbit/s

95th percentile per-packet one-way delay: 46.541 ms

Loss rate: 34.45%

-- Flow 1:

Average throughput: 46.49 Mbit/s

95th percentile per-packet one-way delay: 46.886 ms

Loss rate: 37.77%

-- Flow 2:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 45.682 ms

Loss rate: 25.79%

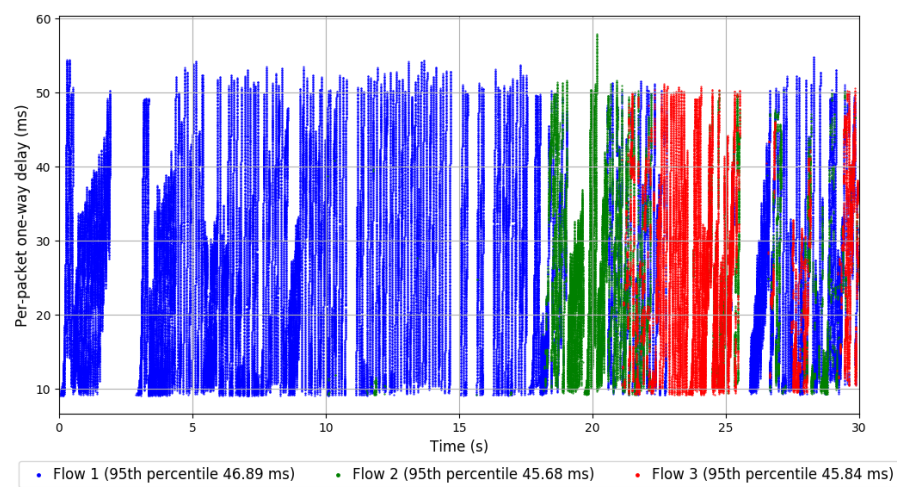
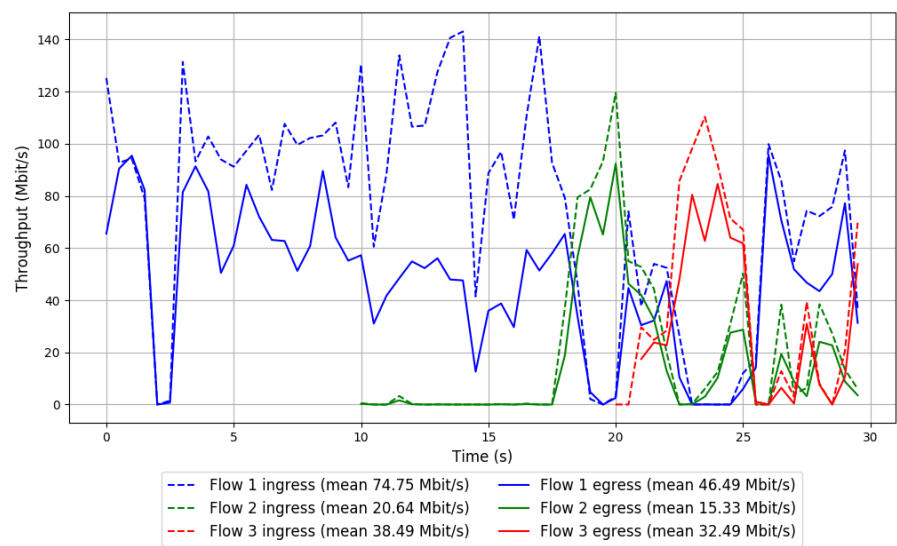
-- Flow 3:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 45.842 ms

Loss rate: 24.25%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-21 05:39:22

End at: 2018-03-21 05:39:52

Local clock offset: 2.153 ms

Remote clock offset: 0.903 ms

Below is generated by plot.py at 2018-03-21 07:42:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.25 Mbit/s

95th percentile per-packet one-way delay: 44.572 ms

Loss rate: 31.64%

-- Flow 1:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 43.914 ms

Loss rate: 23.49%

-- Flow 2:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 46.429 ms

Loss rate: 50.13%

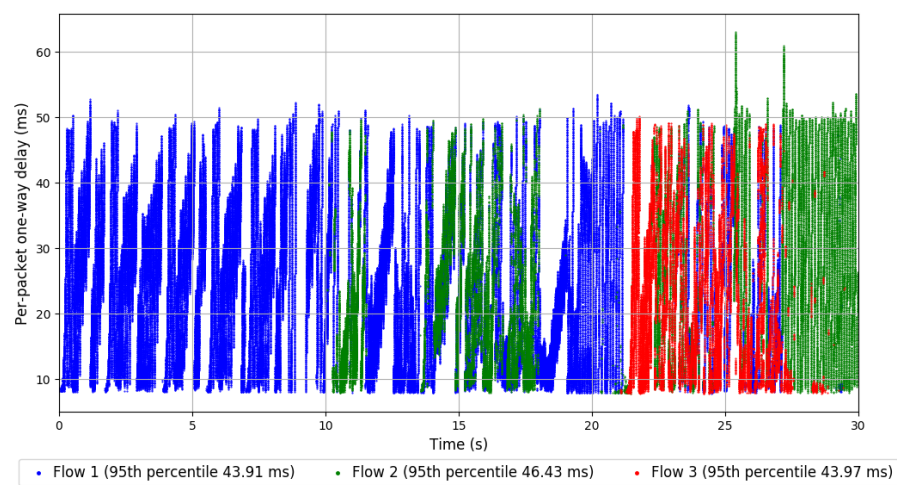
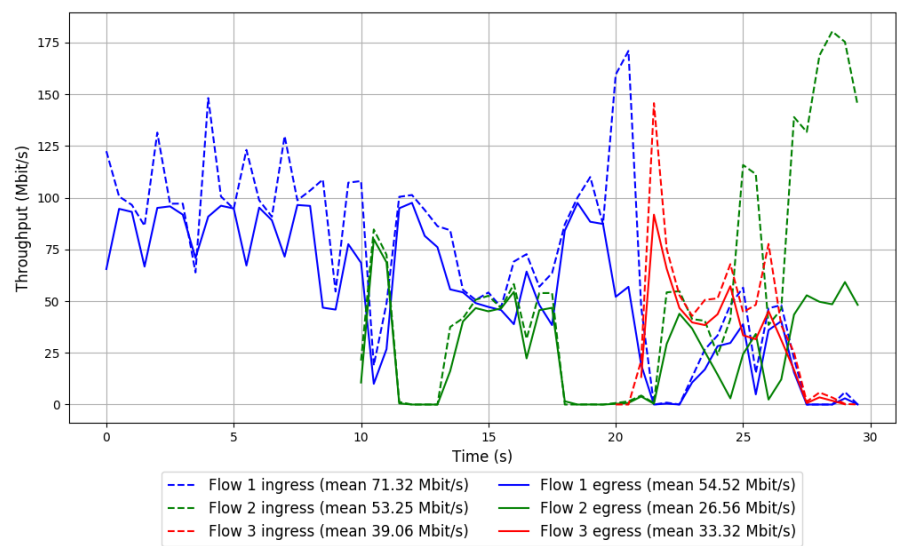
-- Flow 3:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 43.972 ms

Loss rate: 25.49%

Run 7: Report of Verus — Data Link

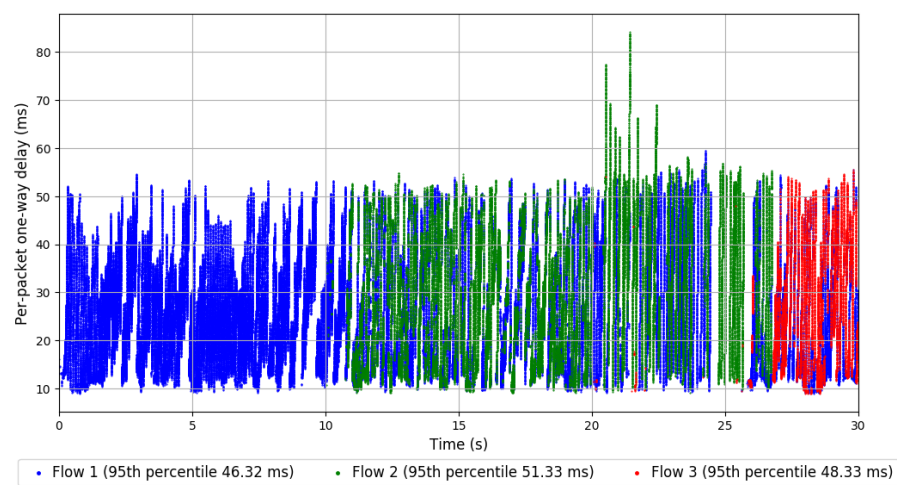
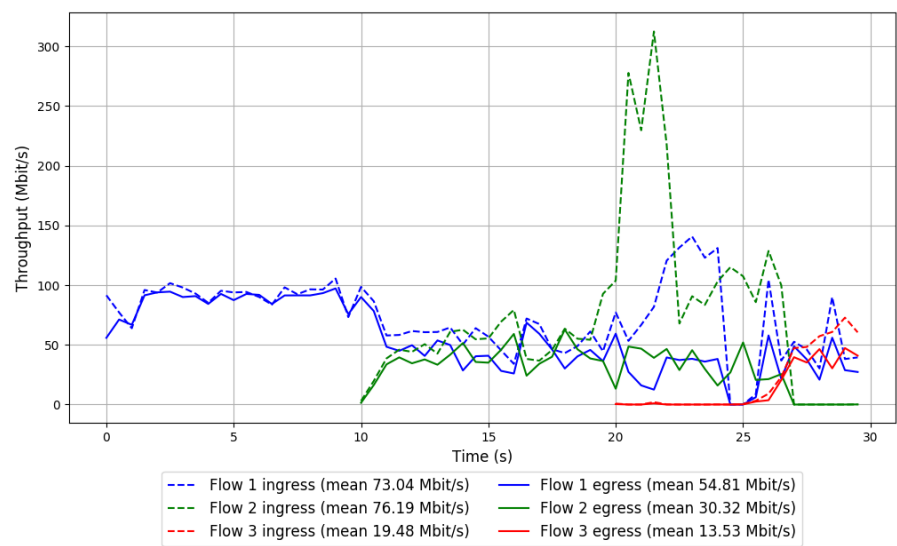


Run 8: Statistics of Verus

Start at: 2018-03-21 06:00:45
End at: 2018-03-21 06:01:15
Local clock offset: -5.014 ms
Remote clock offset: -2.4 ms

Below is generated by plot.py at 2018-03-21 07:42:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.46 Mbit/s
95th percentile per-packet one-way delay: 48.049 ms
Loss rate: 38.94%
-- Flow 1:
Average throughput: 54.81 Mbit/s
95th percentile per-packet one-way delay: 46.318 ms
Loss rate: 24.93%
-- Flow 2:
Average throughput: 30.32 Mbit/s
95th percentile per-packet one-way delay: 51.333 ms
Loss rate: 60.19%
-- Flow 3:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 48.333 ms
Loss rate: 30.46%

Run 8: Report of Verus — Data Link

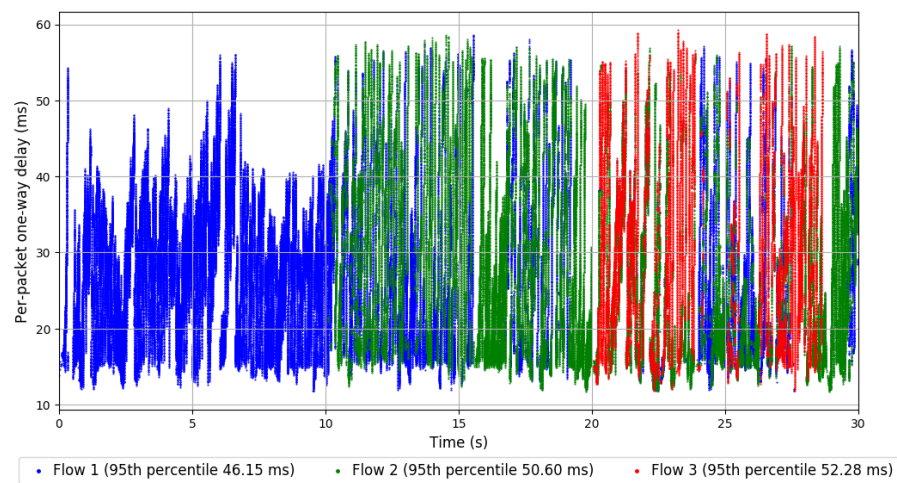
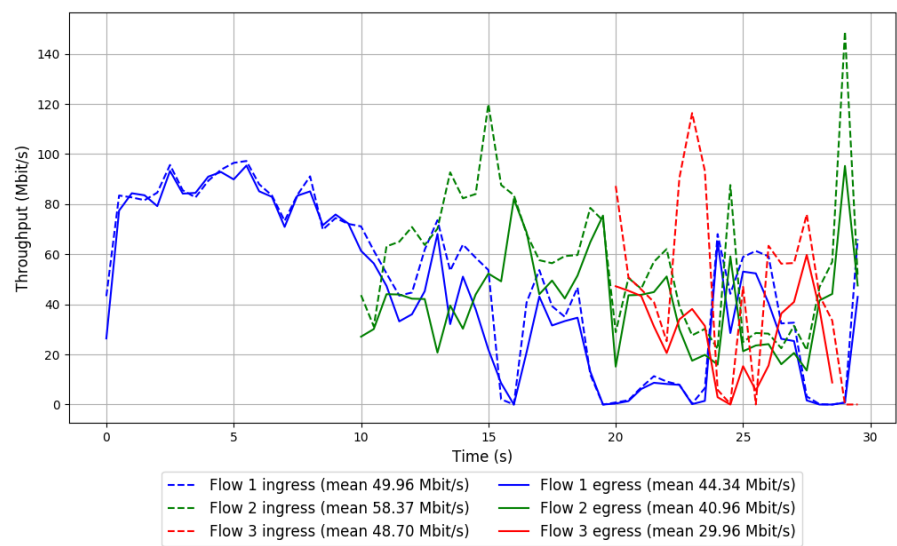


Run 9: Statistics of Verus

Start at: 2018-03-21 06:22:08
End at: 2018-03-21 06:22:38
Local clock offset: -4.454 ms
Remote clock offset: -0.885 ms

Below is generated by plot.py at 2018-03-21 07:42:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.18 Mbit/s
95th percentile per-packet one-way delay: 49.270 ms
Loss rate: 23.12%
-- Flow 1:
Average throughput: 44.34 Mbit/s
95th percentile per-packet one-way delay: 46.151 ms
Loss rate: 11.21%
-- Flow 2:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 50.598 ms
Loss rate: 29.74%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 52.284 ms
Loss rate: 44.81%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-21 06:43:25

End at: 2018-03-21 06:43:55

Local clock offset: -3.267 ms

Remote clock offset: 0.884 ms

Below is generated by plot.py at 2018-03-21 07:42:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 48.609 ms

Loss rate: 33.49%

-- Flow 1:

Average throughput: 44.55 Mbit/s

95th percentile per-packet one-way delay: 47.870 ms

Loss rate: 27.92%

-- Flow 2:

Average throughput: 32.99 Mbit/s

95th percentile per-packet one-way delay: 50.363 ms

Loss rate: 43.05%

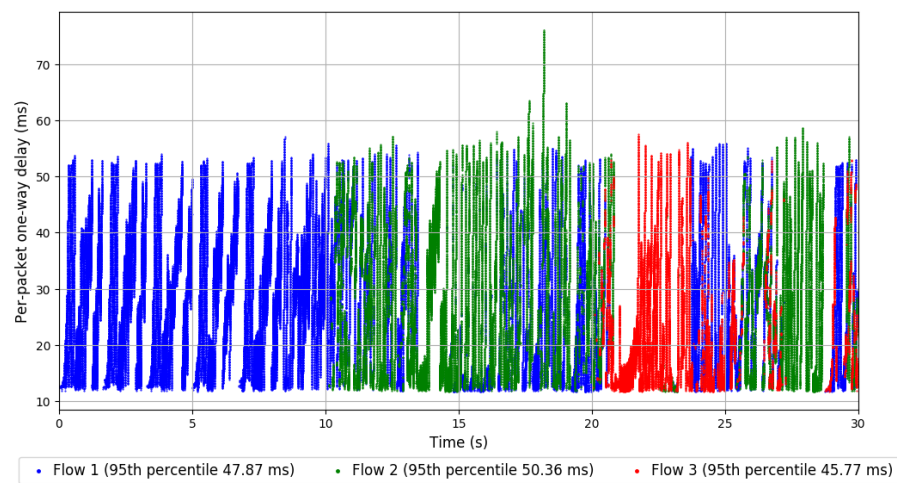
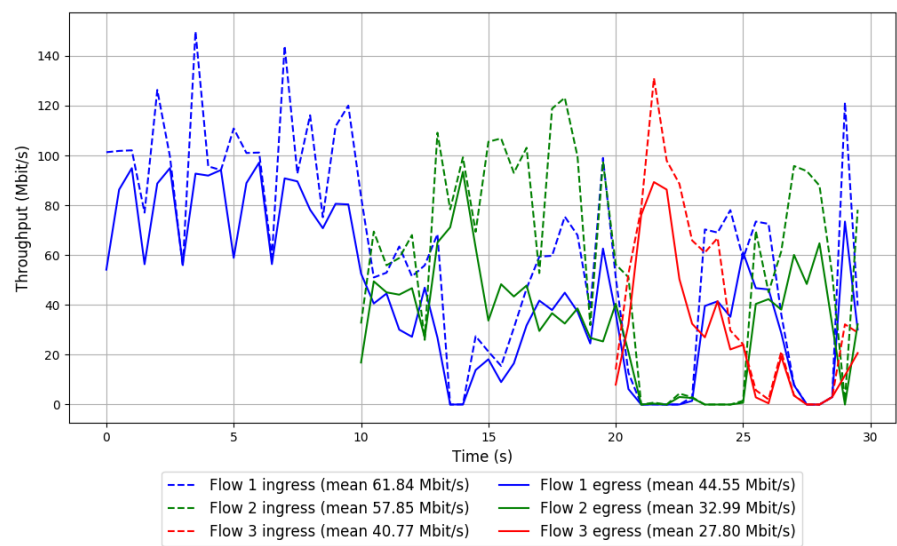
-- Flow 3:

Average throughput: 27.80 Mbit/s

95th percentile per-packet one-way delay: 45.765 ms

Loss rate: 31.77%

Run 10: Report of Verus — Data Link

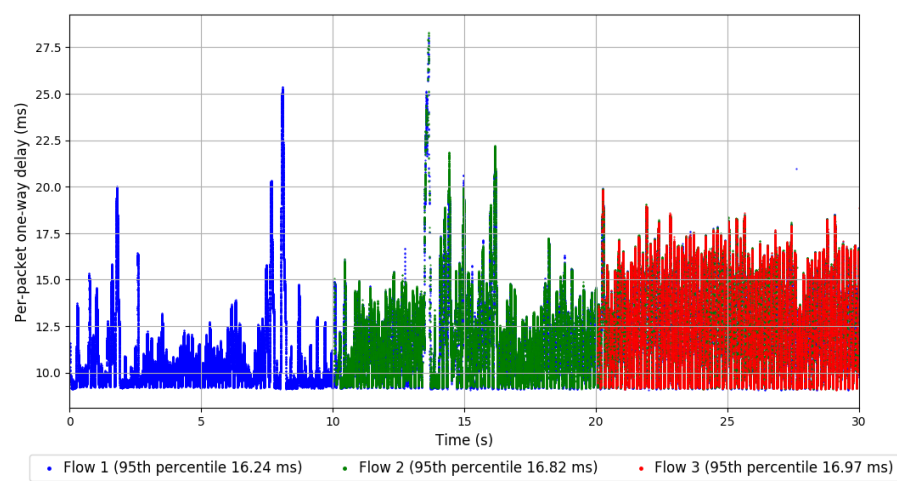
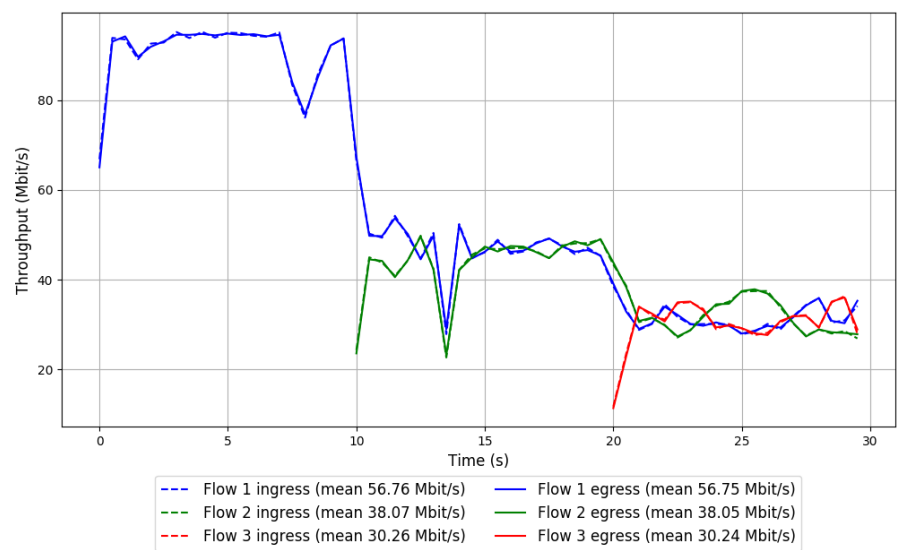


Run 1: Statistics of Copa

Start at: 2018-03-21 03:33:52
End at: 2018-03-21 03:34:22
Local clock offset: -10.895 ms
Remote clock offset: -3.702 ms

Below is generated by plot.py at 2018-03-21 07:43:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.13 Mbit/s
95th percentile per-packet one-way delay: 16.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 16.244 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.05 Mbit/s
95th percentile per-packet one-way delay: 16.825 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 16.967 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

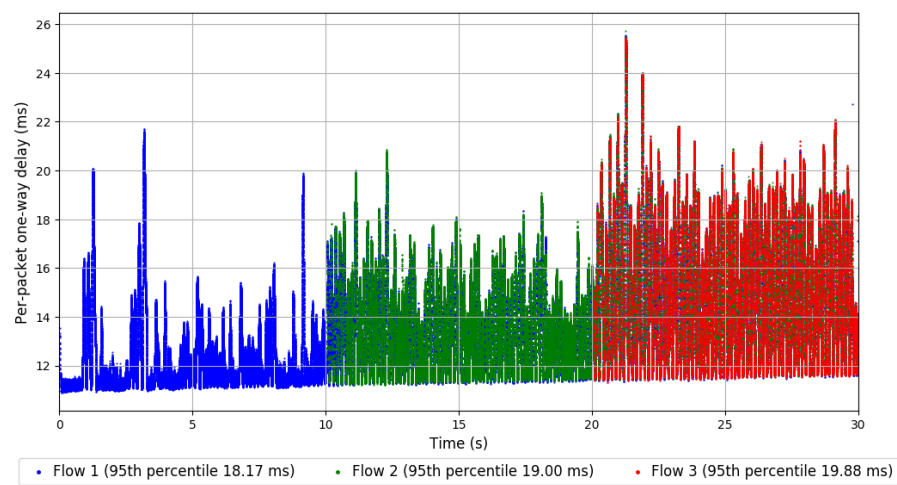
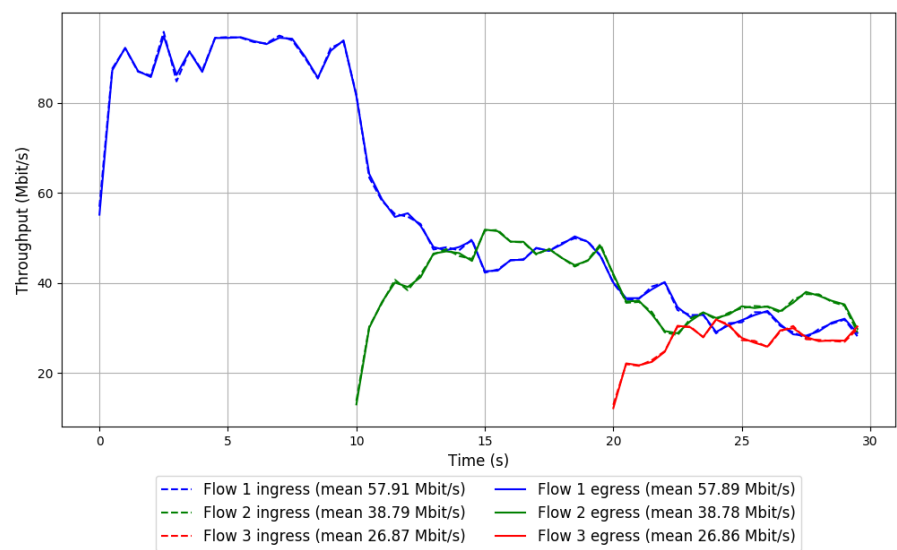


Run 2: Statistics of Copa

Start at: 2018-03-21 03:55:08
End at: 2018-03-21 03:55:38
Local clock offset: -13.291 ms
Remote clock offset: -2.685 ms

Below is generated by plot.py at 2018-03-21 07:43:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 18.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 18.173 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.78 Mbit/s
95th percentile per-packet one-way delay: 18.995 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 19.880 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-21 04:16:37

End at: 2018-03-21 04:17:07

Local clock offset: -1.925 ms

Remote clock offset: 0.863 ms

Below is generated by plot.py at 2018-03-21 07:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 19.814 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.54 Mbit/s

95th percentile per-packet one-way delay: 19.022 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 20.343 ms

Loss rate: 0.00%

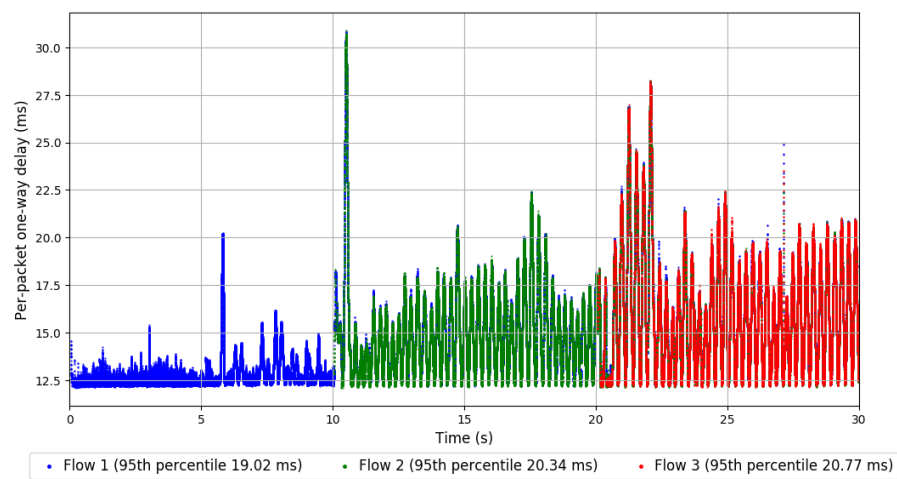
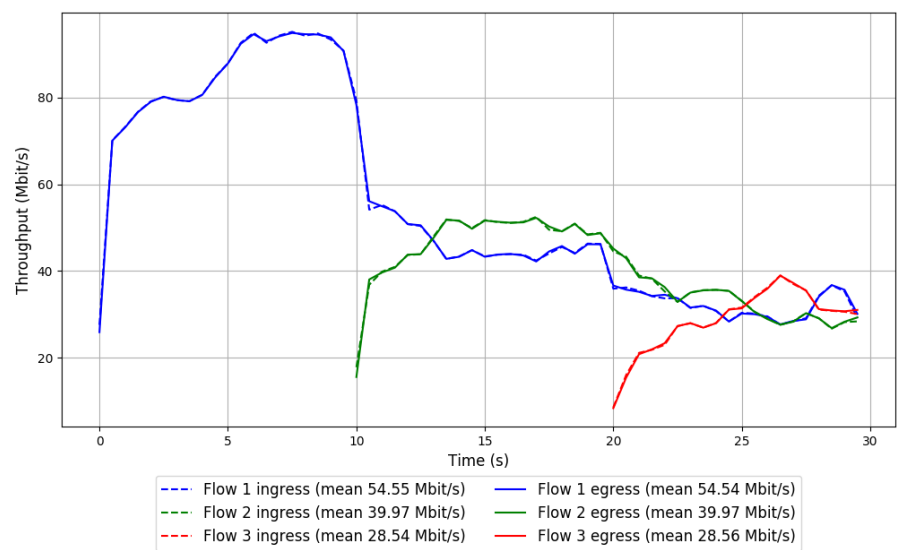
-- Flow 3:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 20.773 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

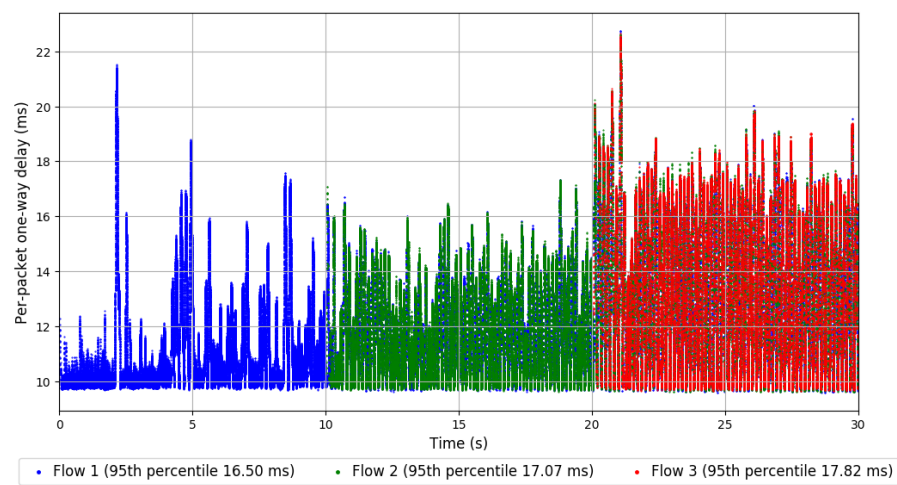
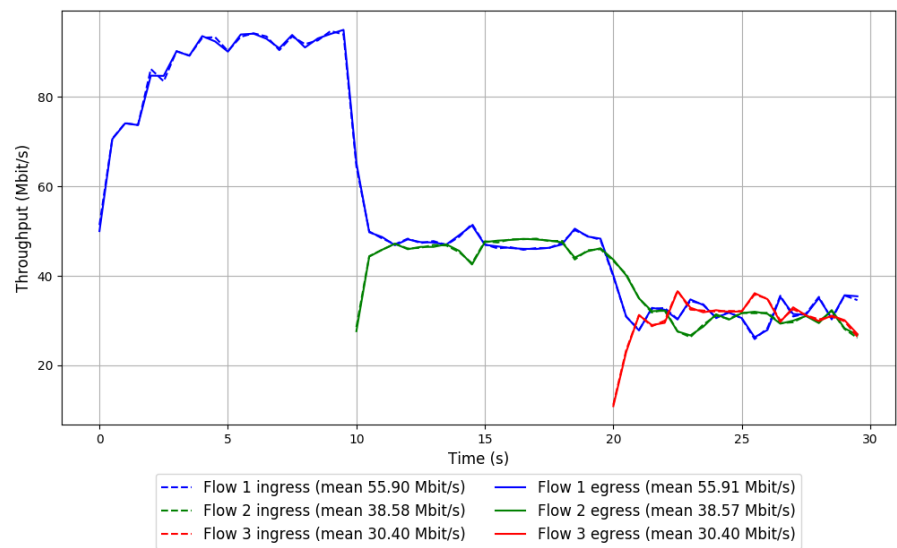


Run 4: Statistics of Copa

Start at: 2018-03-21 04:38:20
End at: 2018-03-21 04:38:50
Local clock offset: -2.108 ms
Remote clock offset: 2.818 ms

```
# Below is generated by plot.py at 2018-03-21 07:43:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 16.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 16.503 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.57 Mbit/s
95th percentile per-packet one-way delay: 17.065 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 17.824 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-21 04:59:25

End at: 2018-03-21 04:59:55

Local clock offset: -5.679 ms

Remote clock offset: 2.866 ms

Below is generated by plot.py at 2018-03-21 07:44:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.53 Mbit/s

95th percentile per-packet one-way delay: 17.587 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.43 Mbit/s

95th percentile per-packet one-way delay: 16.846 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 17.820 ms

Loss rate: 0.00%

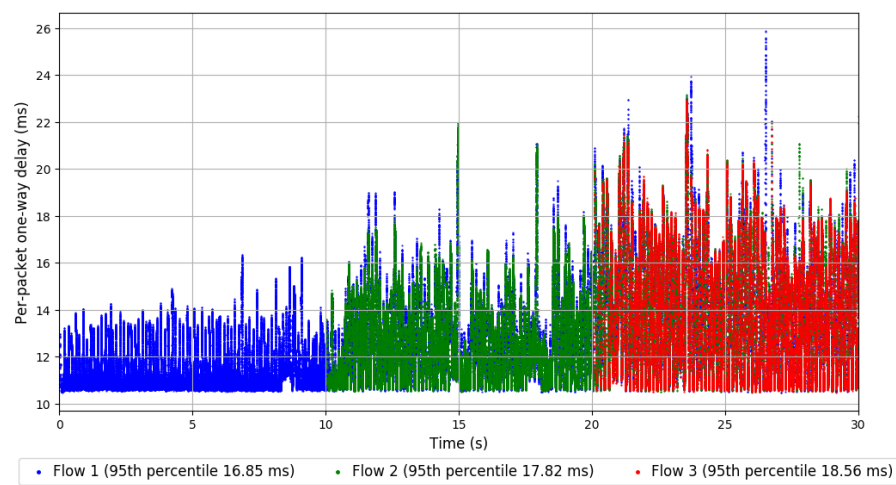
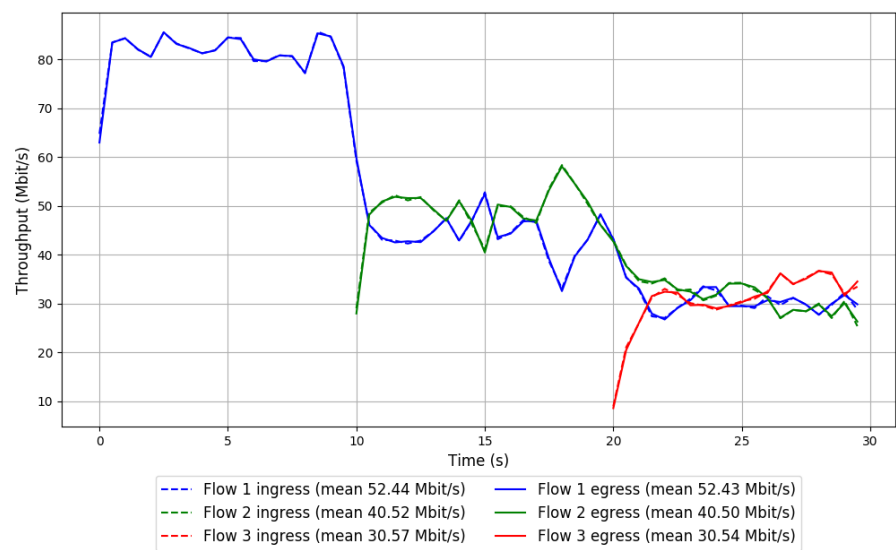
-- Flow 3:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 18.564 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

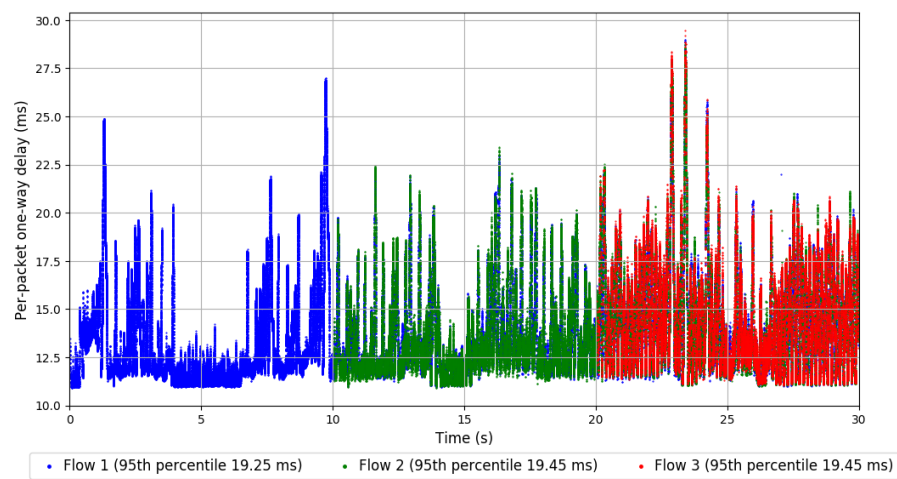
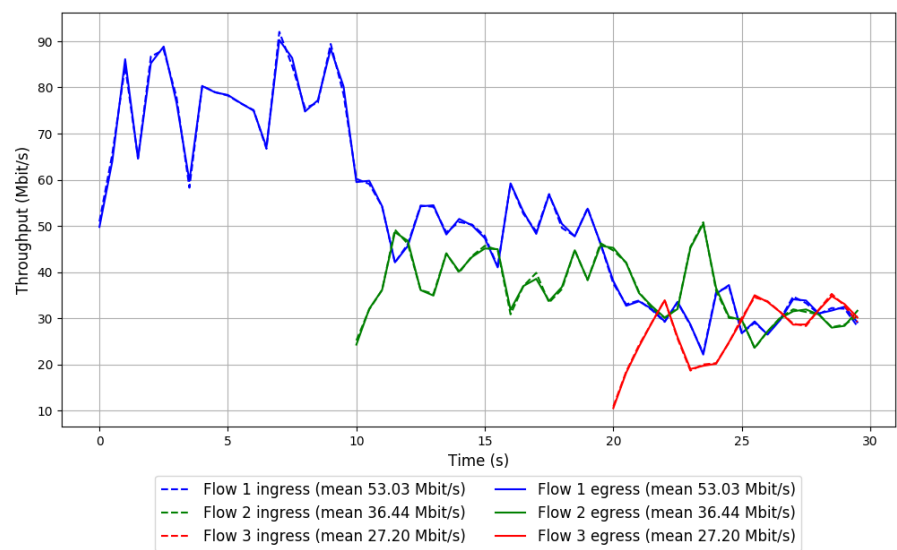


Run 6: Statistics of Copa

Start at: 2018-03-21 05:20:33
End at: 2018-03-21 05:21:03
Local clock offset: -0.723 ms
Remote clock offset: 0.949 ms

Below is generated by plot.py at 2018-03-21 07:44:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 19.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.03 Mbit/s
95th percentile per-packet one-way delay: 19.255 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 19.453 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.20 Mbit/s
95th percentile per-packet one-way delay: 19.447 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-21 05:41:42

End at: 2018-03-21 05:42:12

Local clock offset: -0.373 ms

Remote clock offset: 0.617 ms

Below is generated by plot.py at 2018-03-21 07:44:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.73 Mbit/s

95th percentile per-packet one-way delay: 17.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.33 Mbit/s

95th percentile per-packet one-way delay: 16.868 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.18 Mbit/s

95th percentile per-packet one-way delay: 17.982 ms

Loss rate: 0.00%

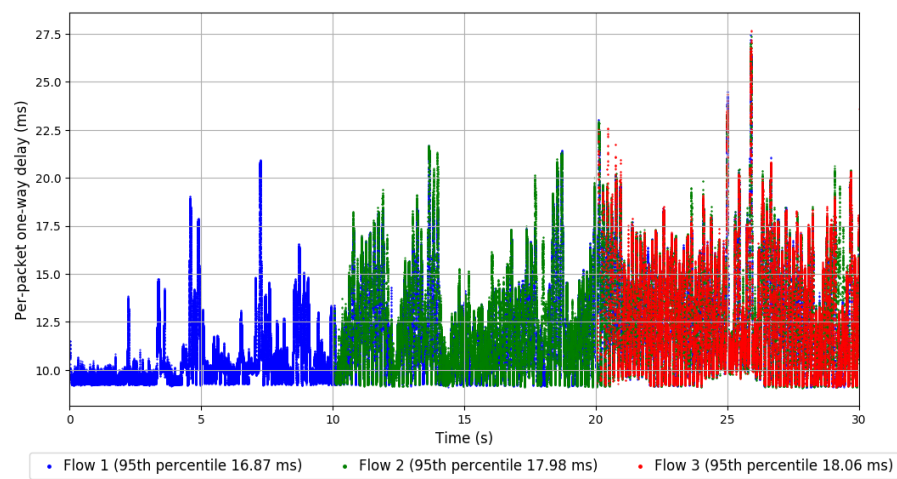
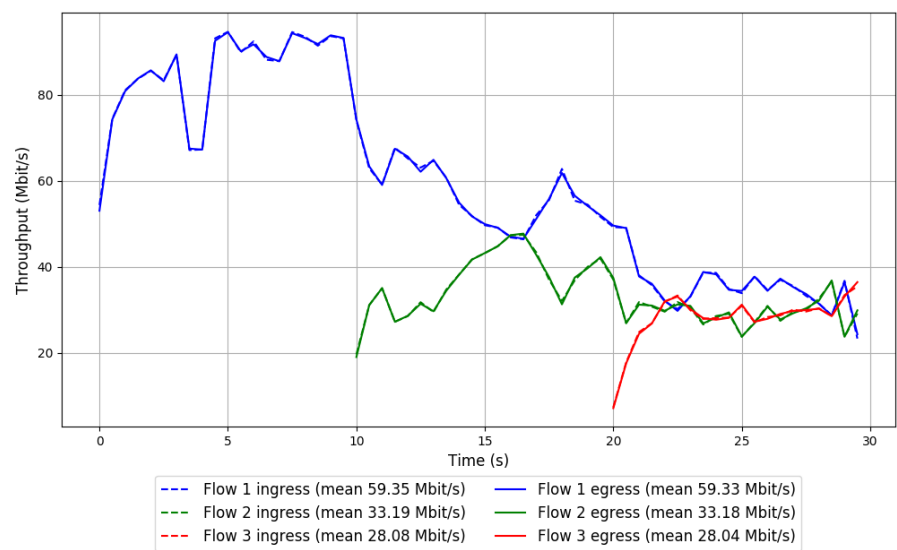
-- Flow 3:

Average throughput: 28.04 Mbit/s

95th percentile per-packet one-way delay: 18.060 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-21 06:03:09

End at: 2018-03-21 06:03:39

Local clock offset: -4.425 ms

Remote clock offset: -2.85 ms

Below is generated by plot.py at 2018-03-21 07:44:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.18 Mbit/s

95th percentile per-packet one-way delay: 21.293 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 39.33 Mbit/s

95th percentile per-packet one-way delay: 19.925 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 34.30 Mbit/s

95th percentile per-packet one-way delay: 22.322 ms

Loss rate: 0.17%

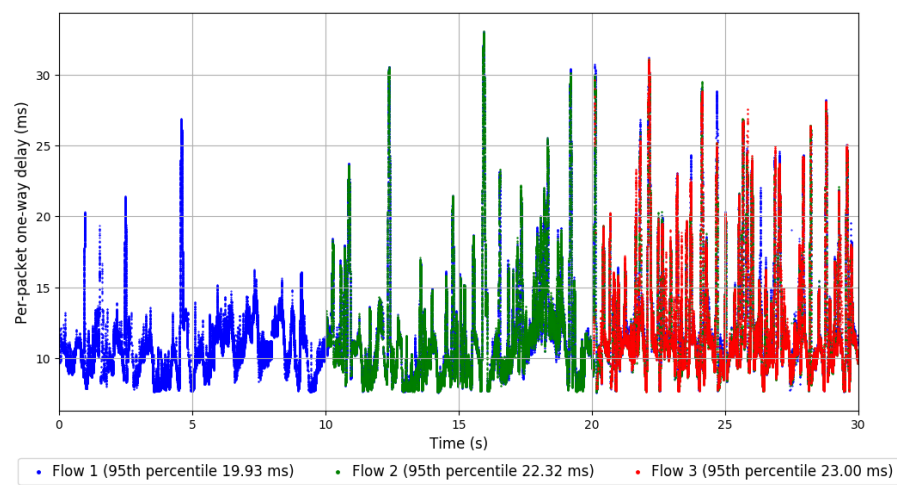
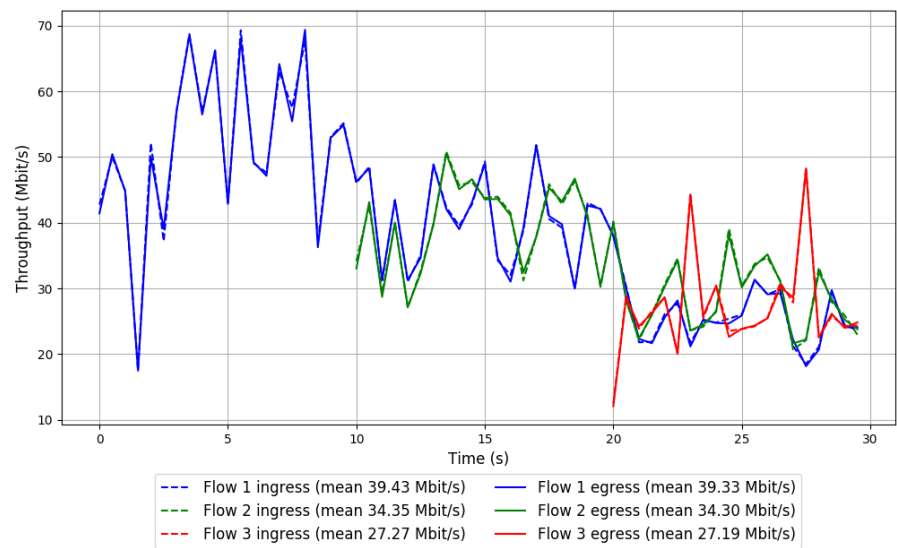
-- Flow 3:

Average throughput: 27.19 Mbit/s

95th percentile per-packet one-way delay: 23.005 ms

Loss rate: 0.26%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-21 06:24:29

End at: 2018-03-21 06:24:59

Local clock offset: -4.303 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-03-21 07:44:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.36 Mbit/s

95th percentile per-packet one-way delay: 24.897 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 28.46 Mbit/s

95th percentile per-packet one-way delay: 23.540 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 26.297 ms

Loss rate: 0.66%

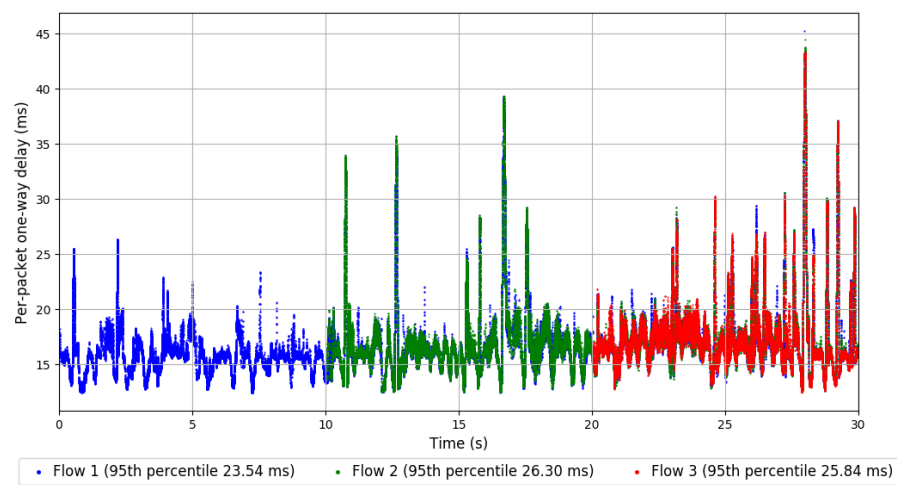
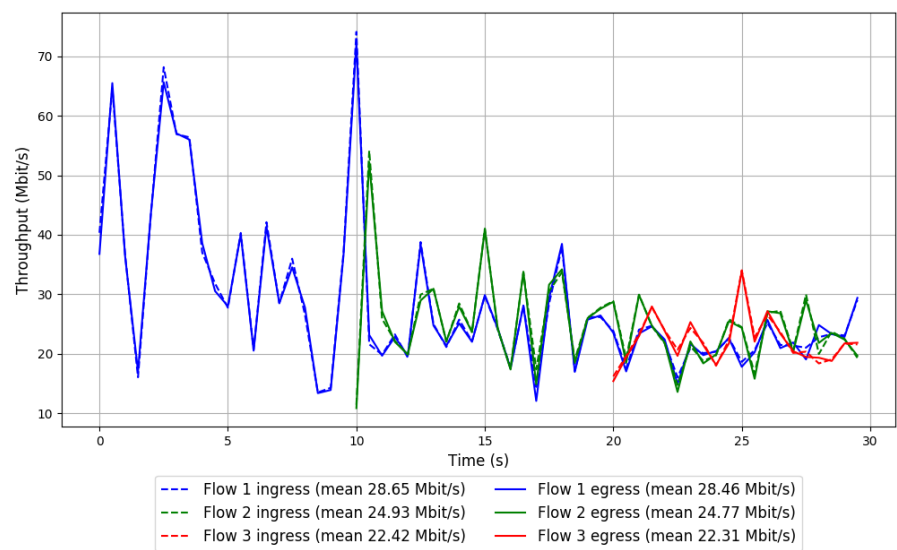
-- Flow 3:

Average throughput: 22.31 Mbit/s

95th percentile per-packet one-way delay: 25.838 ms

Loss rate: 0.51%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-21 06:45:54

End at: 2018-03-21 06:46:24

Local clock offset: -0.793 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2018-03-21 07:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 18.074 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.98 Mbit/s

95th percentile per-packet one-way delay: 18.320 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.65 Mbit/s

95th percentile per-packet one-way delay: 17.267 ms

Loss rate: 0.00%

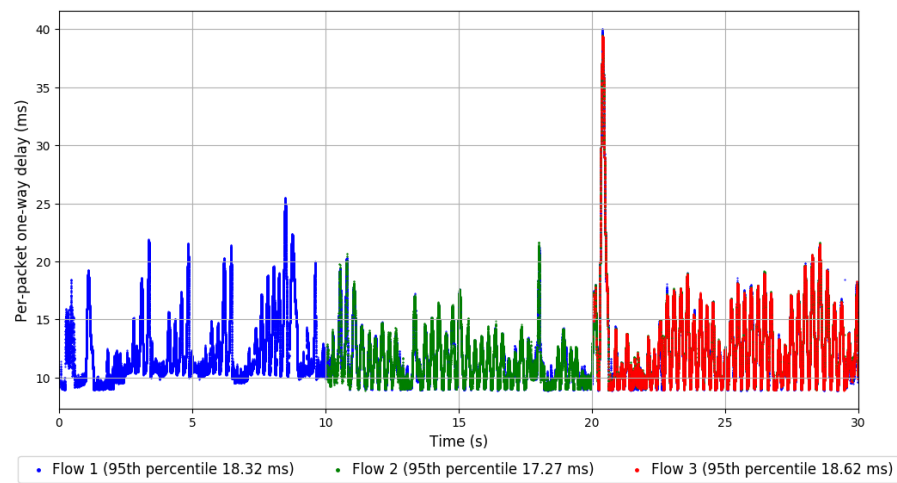
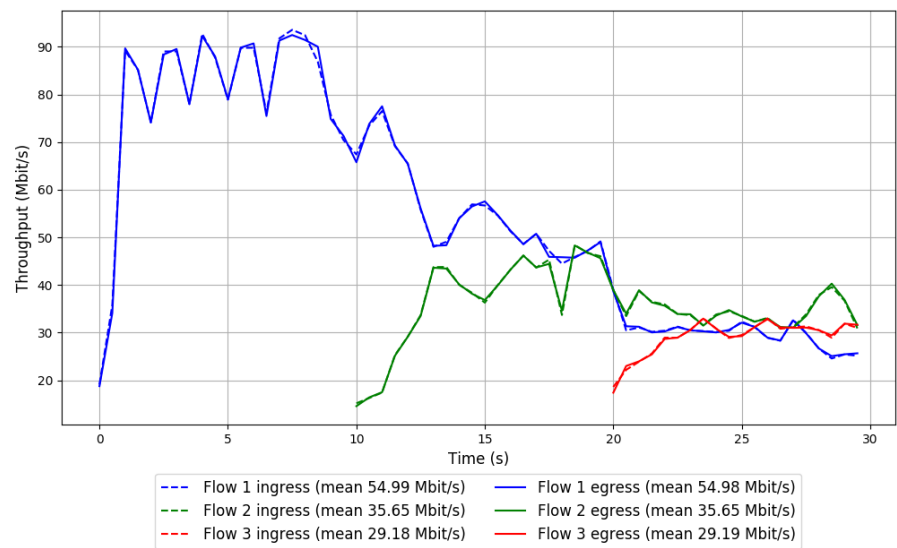
-- Flow 3:

Average throughput: 29.19 Mbit/s

95th percentile per-packet one-way delay: 18.619 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

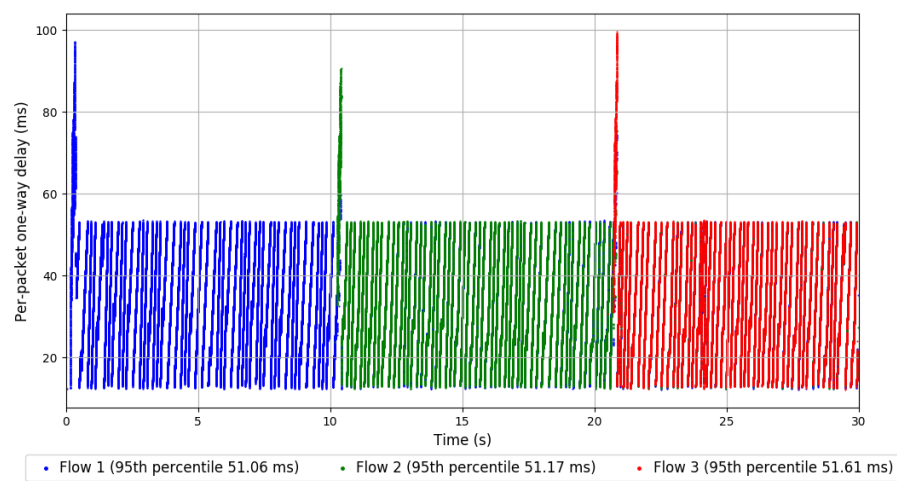
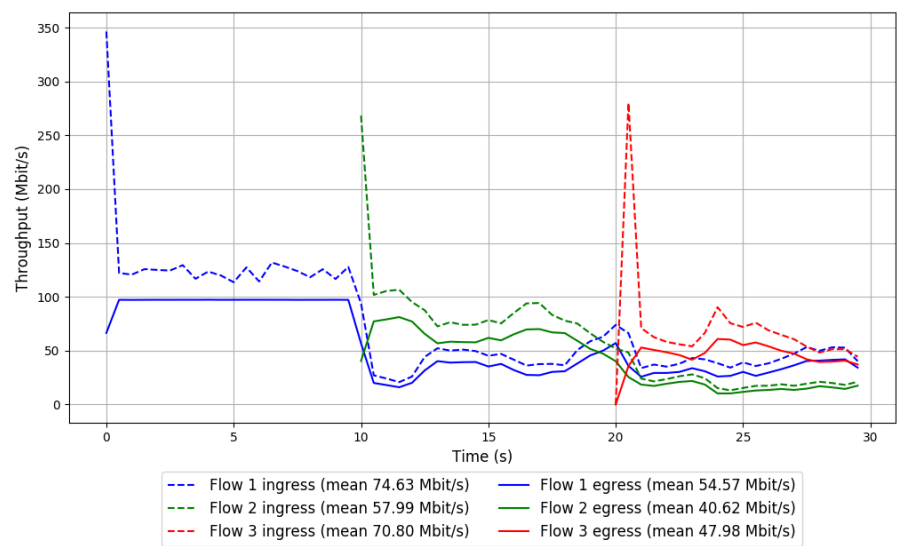


Run 1: Statistics of FillP

Start at: 2018-03-21 03:35:06
End at: 2018-03-21 03:35:36
Local clock offset: -13.699 ms
Remote clock offset: -3.238 ms

Below is generated by plot.py at 2018-03-21 07:46:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.73 Mbit/s
95th percentile per-packet one-way delay: 51.177 ms
Loss rate: 29.20%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 51.065 ms
Loss rate: 26.83%
-- Flow 2:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 51.169 ms
Loss rate: 30.01%
-- Flow 3:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 51.613 ms
Loss rate: 35.39%

Run 1: Report of FillP — Data Link

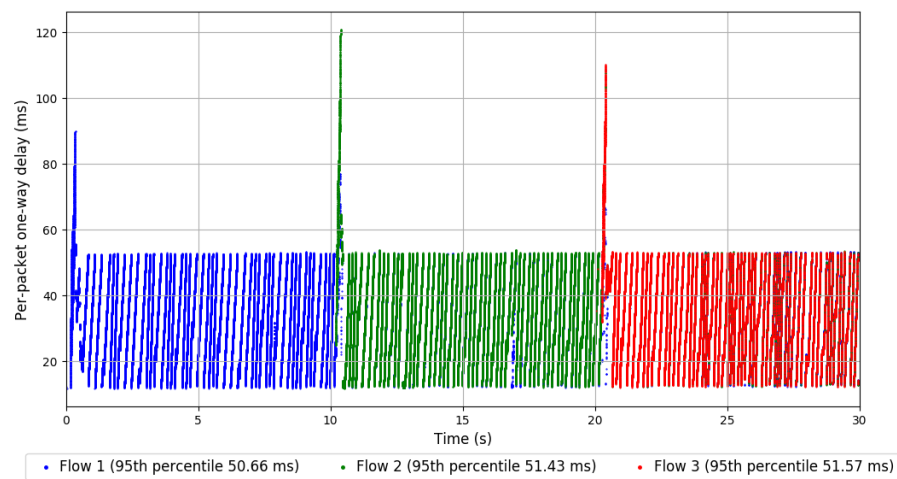
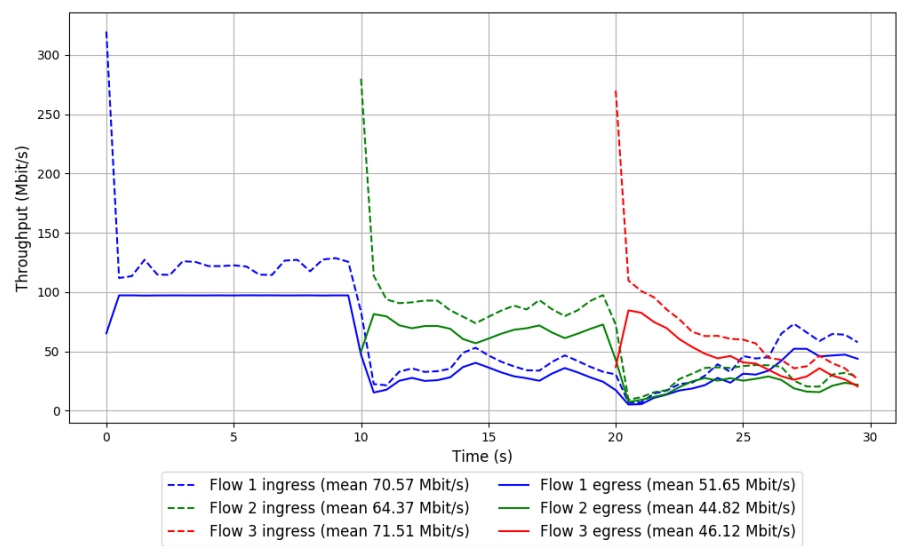


Run 2: Statistics of FillP

Start at: 2018-03-21 03:56:27
End at: 2018-03-21 03:56:57
Local clock offset: -11.528 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2018-03-21 07:46:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 51.031 ms
Loss rate: 29.47%
-- Flow 1:
Average throughput: 51.65 Mbit/s
95th percentile per-packet one-way delay: 50.656 ms
Loss rate: 26.81%
-- Flow 2:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 51.431 ms
Loss rate: 30.42%
-- Flow 3:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 51.569 ms
Loss rate: 35.64%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-21 04:17:59

End at: 2018-03-21 04:18:29

Local clock offset: -1.611 ms

Remote clock offset: 1.093 ms

Below is generated by plot.py at 2018-03-21 07:46:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 51.432 ms

Loss rate: 31.09%

-- Flow 1:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 51.242 ms

Loss rate: 28.65%

-- Flow 2:

Average throughput: 39.52 Mbit/s

95th percentile per-packet one-way delay: 51.652 ms

Loss rate: 33.66%

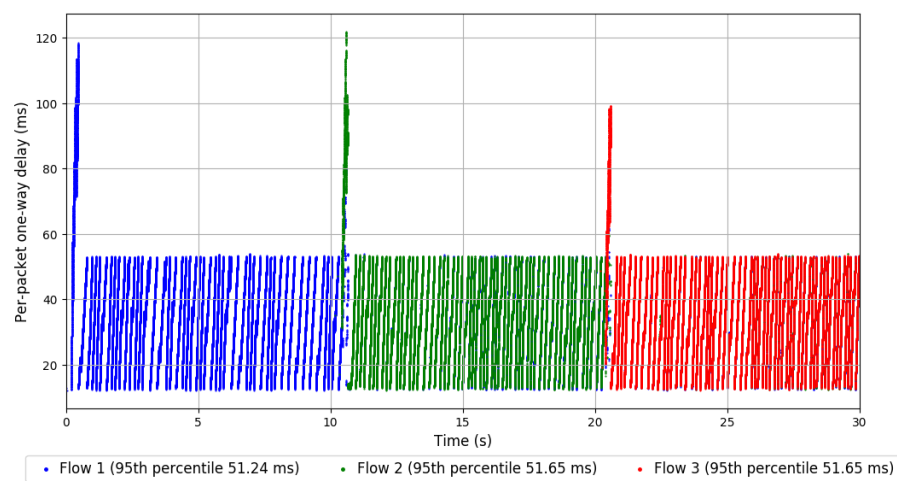
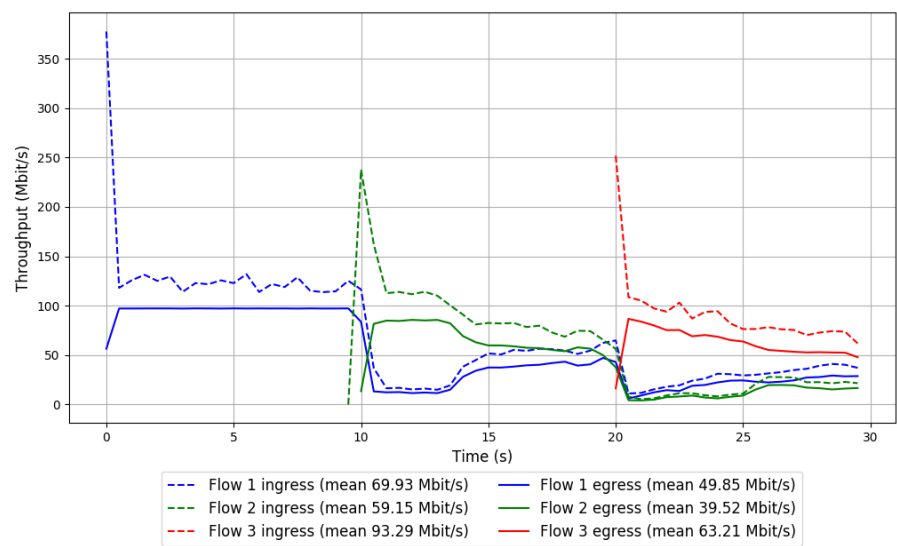
-- Flow 3:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 51.650 ms

Loss rate: 33.32%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-21 04:39:33

End at: 2018-03-21 04:40:03

Local clock offset: -1.985 ms

Remote clock offset: 3.313 ms

Below is generated by plot.py at 2018-03-21 07:46:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.74 Mbit/s

95th percentile per-packet one-way delay: 48.913 ms

Loss rate: 27.57%

-- Flow 1:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 48.601 ms

Loss rate: 25.34%

-- Flow 2:

Average throughput: 37.34 Mbit/s

95th percentile per-packet one-way delay: 48.821 ms

Loss rate: 28.76%

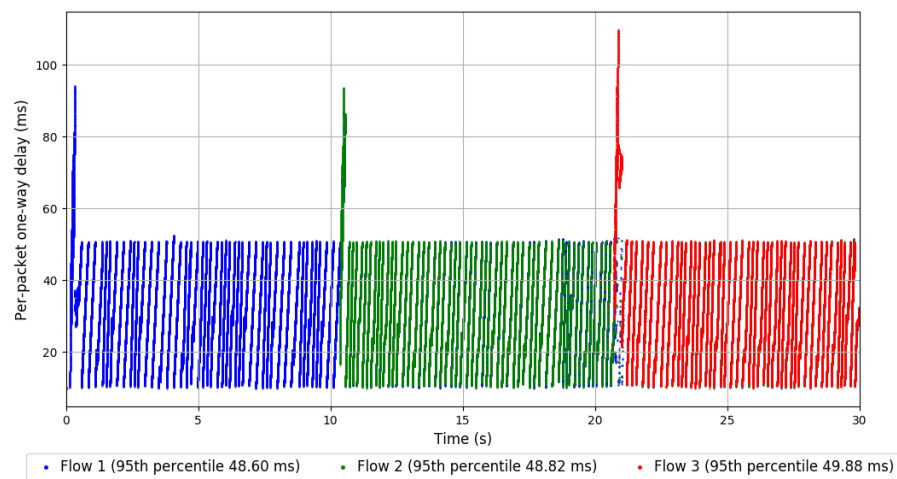
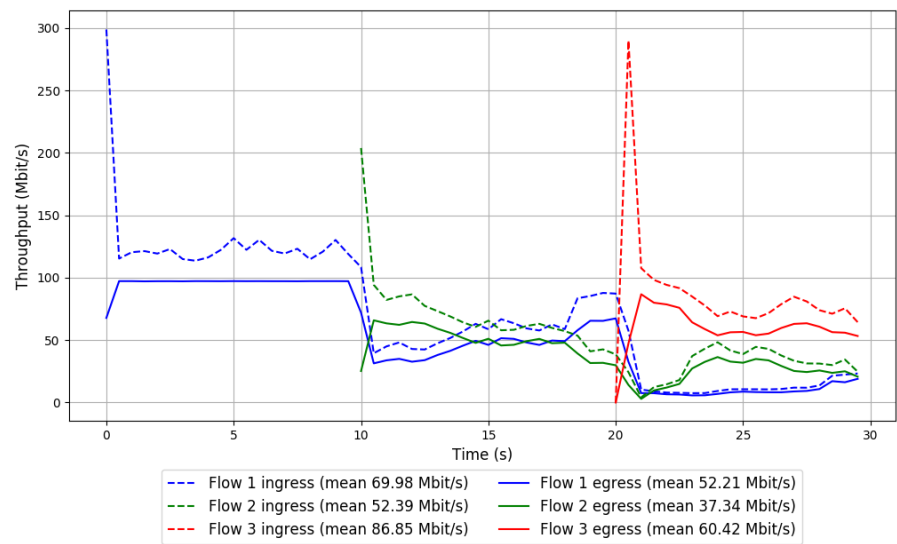
-- Flow 3:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 49.881 ms

Loss rate: 31.55%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-21 05:00:38

End at: 2018-03-21 05:01:08

Local clock offset: -3.603 ms

Remote clock offset: 3.076 ms

Below is generated by plot.py at 2018-03-21 07:46:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.72 Mbit/s

95th percentile per-packet one-way delay: 48.143 ms

Loss rate: 30.19%

-- Flow 1:

Average throughput: 53.17 Mbit/s

95th percentile per-packet one-way delay: 47.840 ms

Loss rate: 27.77%

-- Flow 2:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 48.341 ms

Loss rate: 31.34%

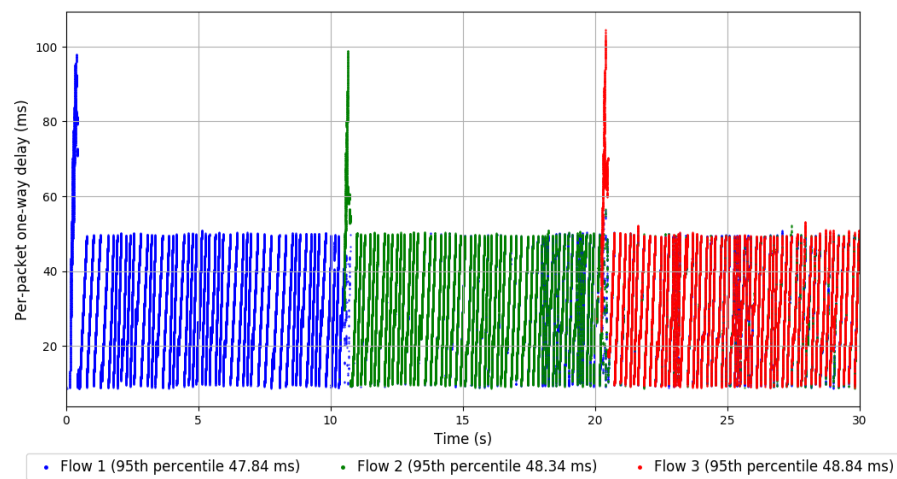
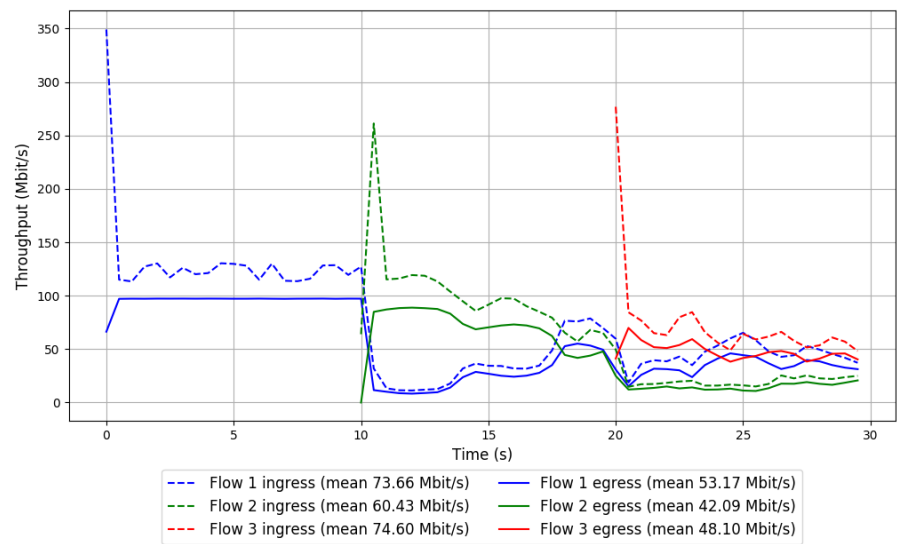
-- Flow 3:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 48.837 ms

Loss rate: 35.51%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-21 05:21:49

End at: 2018-03-21 05:22:19

Local clock offset: 1.327 ms

Remote clock offset: 0.692 ms

Below is generated by plot.py at 2018-03-21 07:46:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.68 Mbit/s

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

Loss rate: 27.91%

-- Flow 1:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 48.218 ms

Loss rate: 25.28%

-- Flow 2:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 48.279 ms

Loss rate: 29.25%

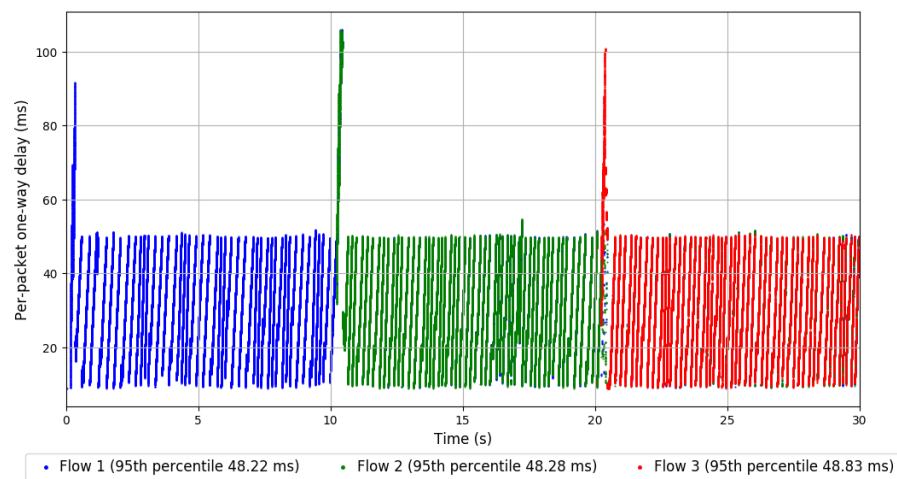
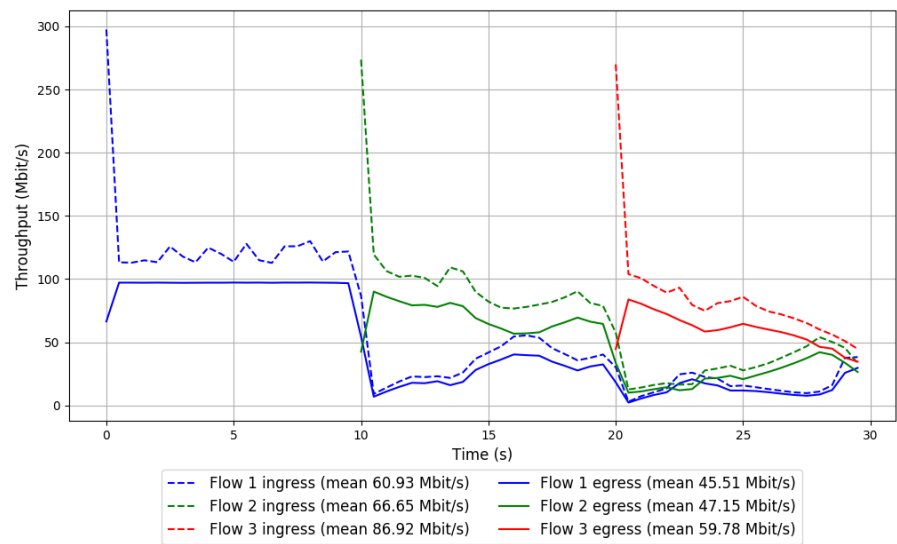
-- Flow 3:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 48.827 ms

Loss rate: 31.40%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-21 05:42:57

End at: 2018-03-21 05:43:27

Local clock offset: 0.009 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-03-21 07:46:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 48.558 ms

Loss rate: 28.86%

-- Flow 1:

Average throughput: 53.79 Mbit/s

95th percentile per-packet one-way delay: 48.528 ms

Loss rate: 26.20%

-- Flow 2:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 48.405 ms

Loss rate: 30.46%

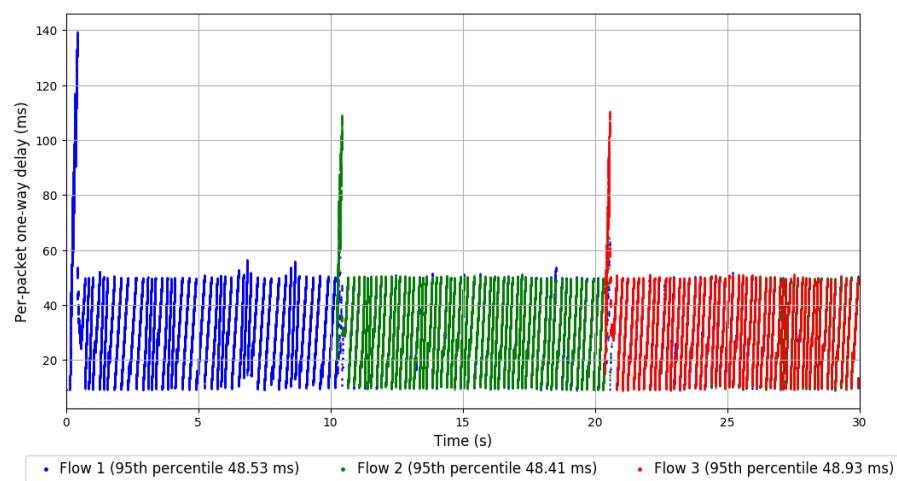
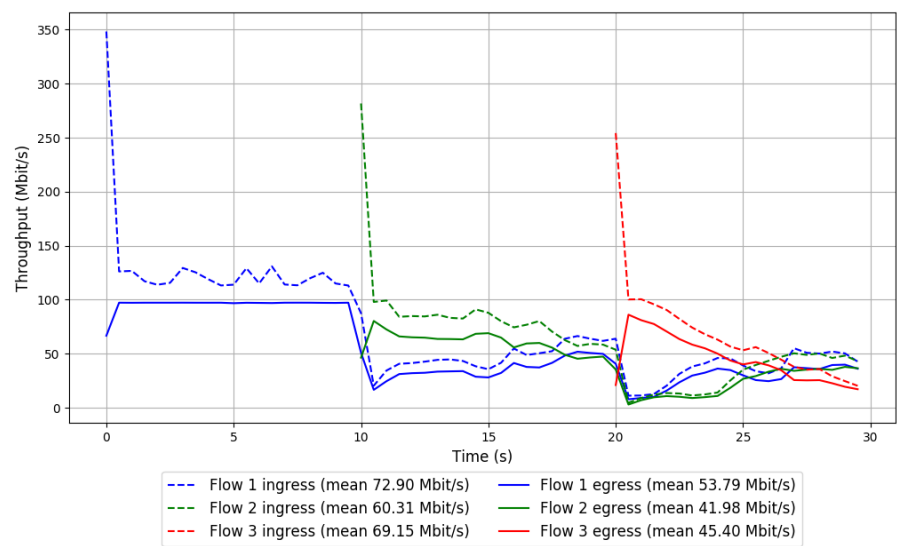
-- Flow 3:

Average throughput: 45.40 Mbit/s

95th percentile per-packet one-way delay: 48.930 ms

Loss rate: 34.50%

Run 7: Report of FillP — Data Link

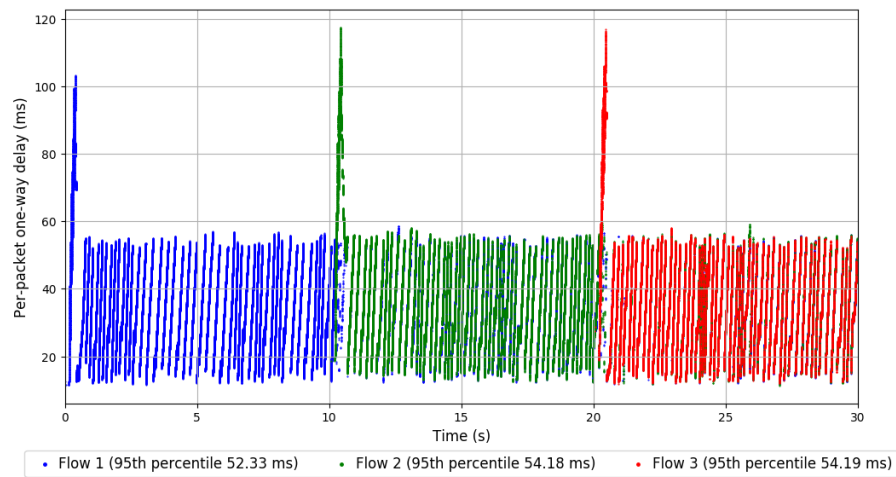
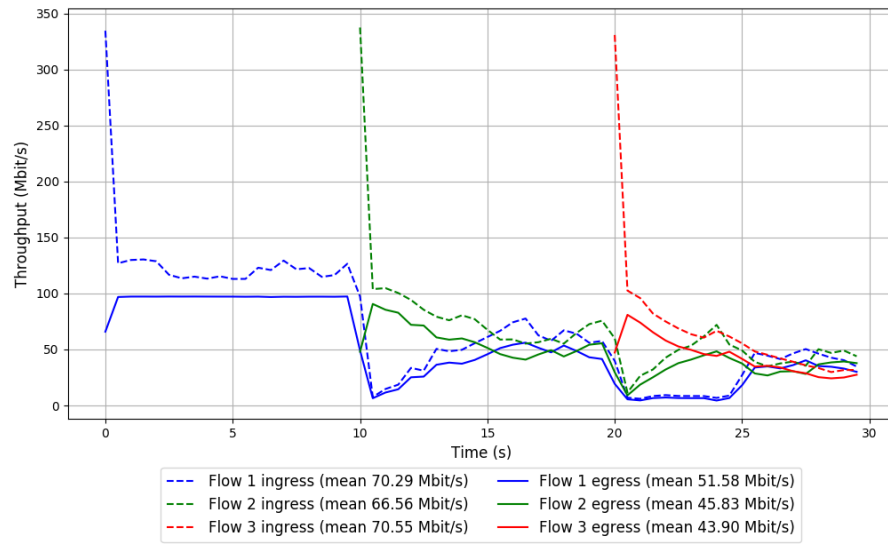


Run 8: Statistics of FillP

Start at: 2018-03-21 06:04:22
End at: 2018-03-21 06:04:52
Local clock offset: -7.69 ms
Remote clock offset: -2.438 ms

Below is generated by plot.py at 2018-03-21 07:47:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 53.133 ms
Loss rate: 29.89%
-- Flow 1:
Average throughput: 51.58 Mbit/s
95th percentile per-packet one-way delay: 52.328 ms
Loss rate: 26.52%
-- Flow 2:
Average throughput: 45.83 Mbit/s
95th percentile per-packet one-way delay: 54.178 ms
Loss rate: 31.14%
-- Flow 3:
Average throughput: 43.90 Mbit/s
95th percentile per-packet one-way delay: 54.193 ms
Loss rate: 37.64%

Run 8: Report of FillP — Data Link

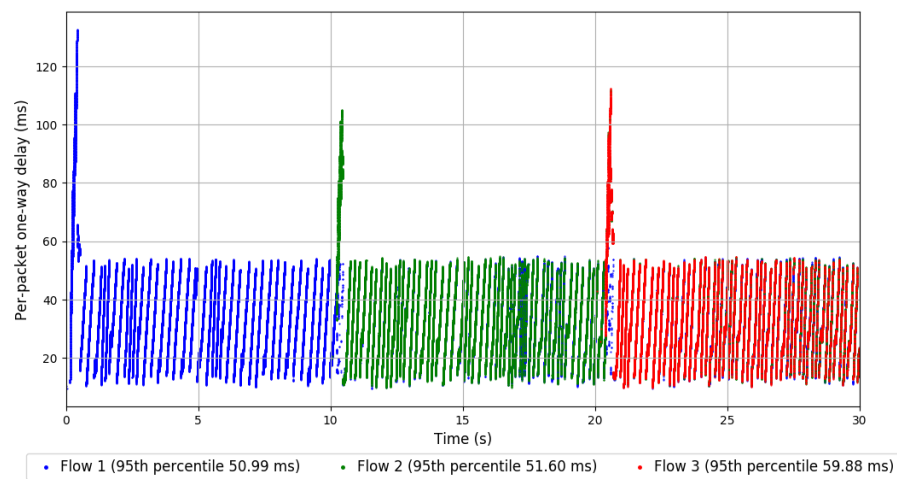
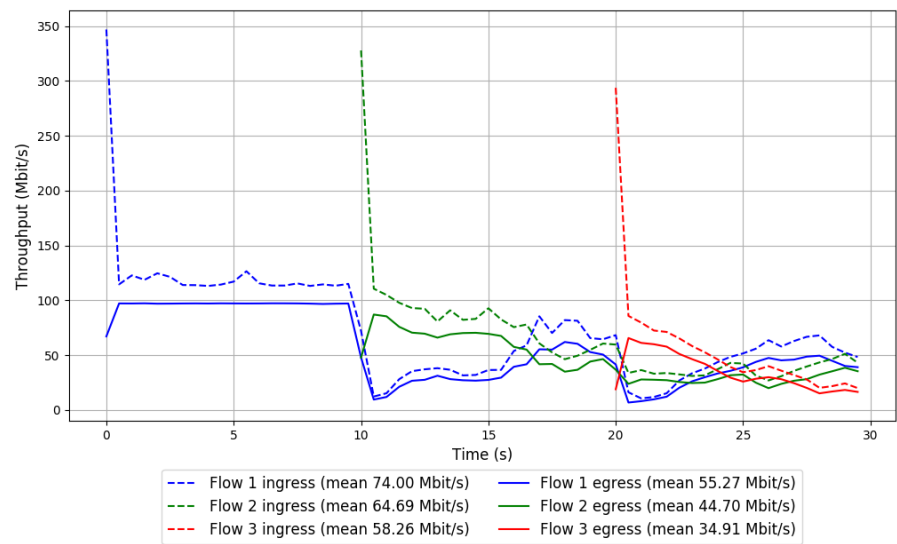


Run 9: Statistics of FillP

Start at: 2018-03-21 06:25:42
End at: 2018-03-21 06:26:12
Local clock offset: -1.59 ms
Remote clock offset: -0.604 ms

Below is generated by plot.py at 2018-03-21 07:47:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 51.448 ms
Loss rate: 29.17%
-- Flow 1:
Average throughput: 55.27 Mbit/s
95th percentile per-packet one-way delay: 50.987 ms
Loss rate: 25.29%
-- Flow 2:
Average throughput: 44.70 Mbit/s
95th percentile per-packet one-way delay: 51.604 ms
Loss rate: 30.90%
-- Flow 3:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 59.885 ms
Loss rate: 40.20%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-21 06:47:11

End at: 2018-03-21 06:47:41

Local clock offset: -1.62 ms

Remote clock offset: 1.869 ms

Below is generated by plot.py at 2018-03-21 07:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 50.724 ms

Loss rate: 31.04%

-- Flow 1:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 50.391 ms

Loss rate: 27.33%

-- Flow 2:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 50.580 ms

Loss rate: 33.02%

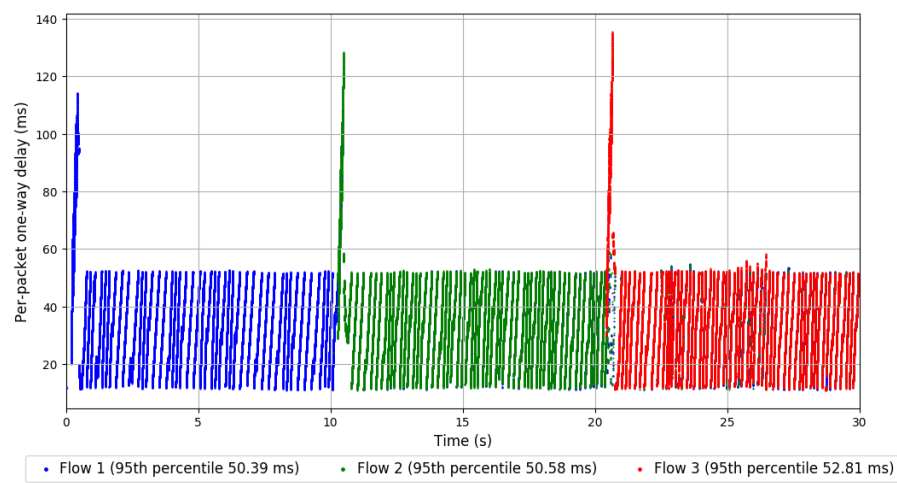
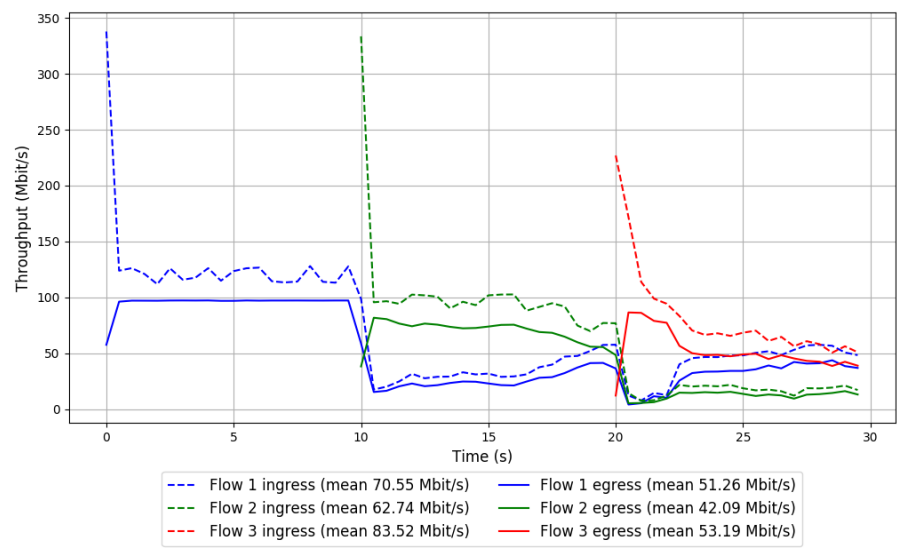
-- Flow 3:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 52.807 ms

Loss rate: 37.50%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-03-21 03:38:35

End at: 2018-03-21 03:39:05

Local clock offset: -11.79 ms

Remote clock offset: -3.76 ms

Below is generated by plot.py at 2018-03-21 07:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 18.916 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.77 Mbit/s

95th percentile per-packet one-way delay: 18.730 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.30 Mbit/s

95th percentile per-packet one-way delay: 19.196 ms

Loss rate: 0.00%

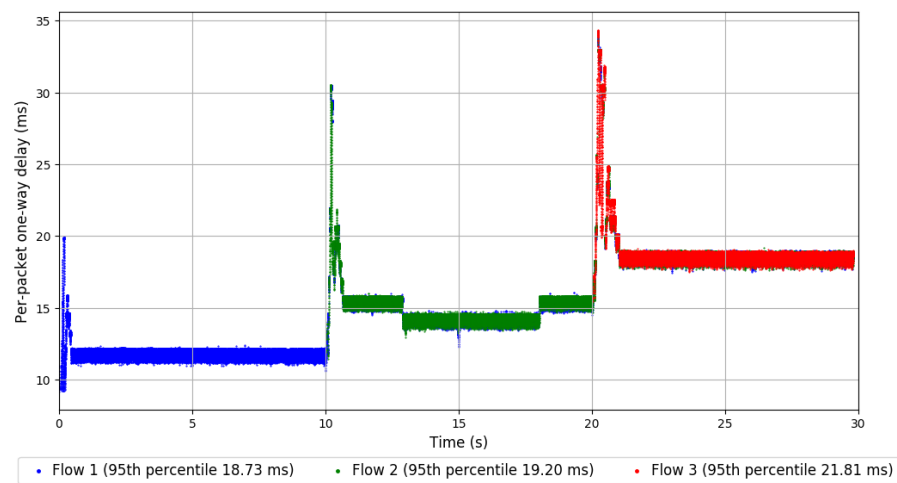
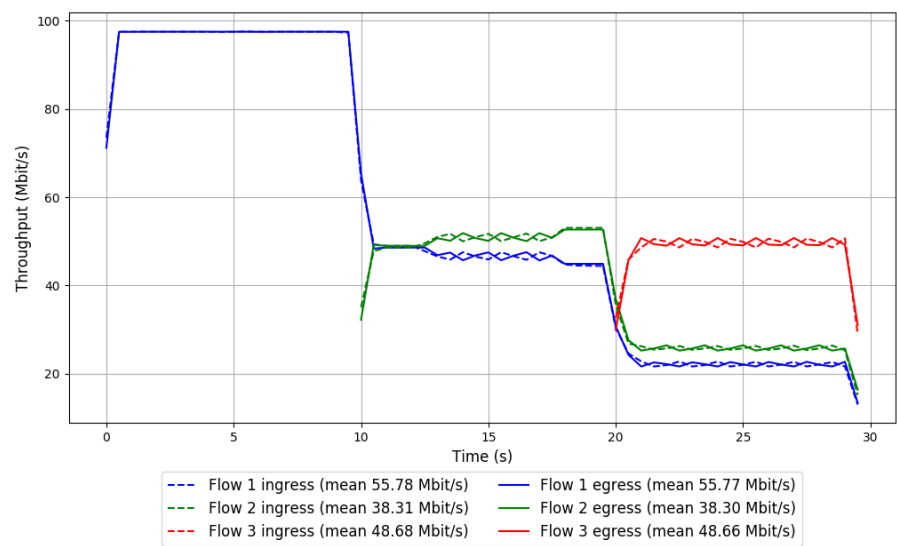
-- Flow 3:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 21.812 ms

Loss rate: 0.01%

Run 1: Report of Indigo-1-32 — Data Link

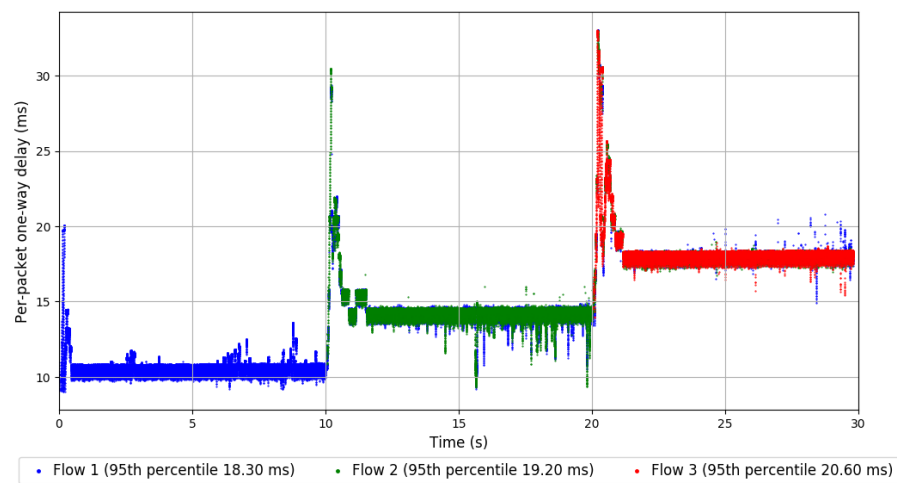
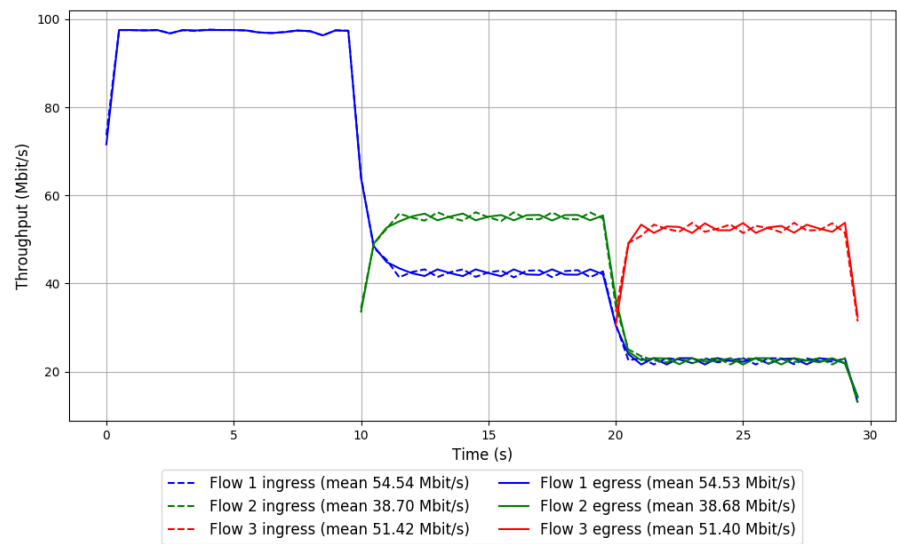


Run 2: Statistics of Indigo-1-32

Start at: 2018-03-21 04:00:01
End at: 2018-03-21 04:00:31
Local clock offset: -6.184 ms
Remote clock offset: -2.028 ms

Below is generated by plot.py at 2018-03-21 07:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 18.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 18.296 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 19.195 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.40 Mbit/s
95th percentile per-packet one-way delay: 20.597 ms
Loss rate: 0.00%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-21 04:21:39

End at: 2018-03-21 04:22:09

Local clock offset: 1.814 ms

Remote clock offset: 1.094 ms

Below is generated by plot.py at 2018-03-21 07:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.80 Mbit/s

95th percentile per-packet one-way delay: 18.855 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 63.99 Mbit/s

95th percentile per-packet one-way delay: 18.149 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 20.165 ms

Loss rate: 0.15%

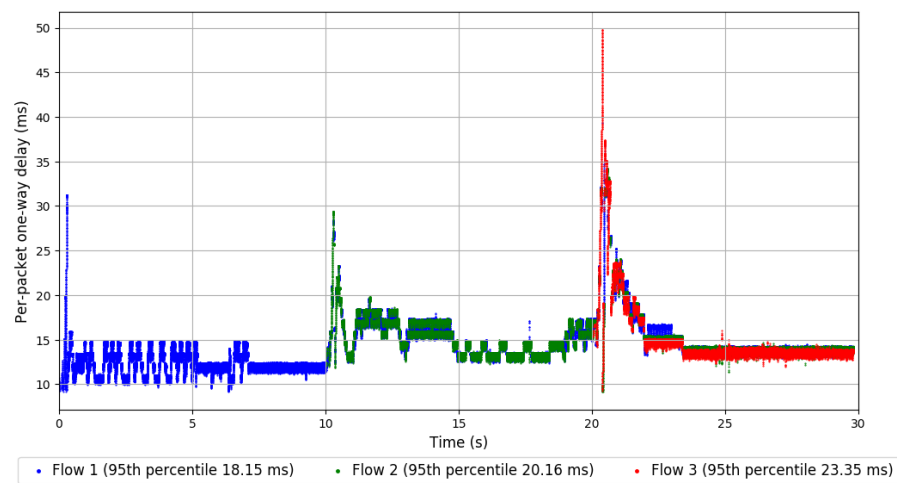
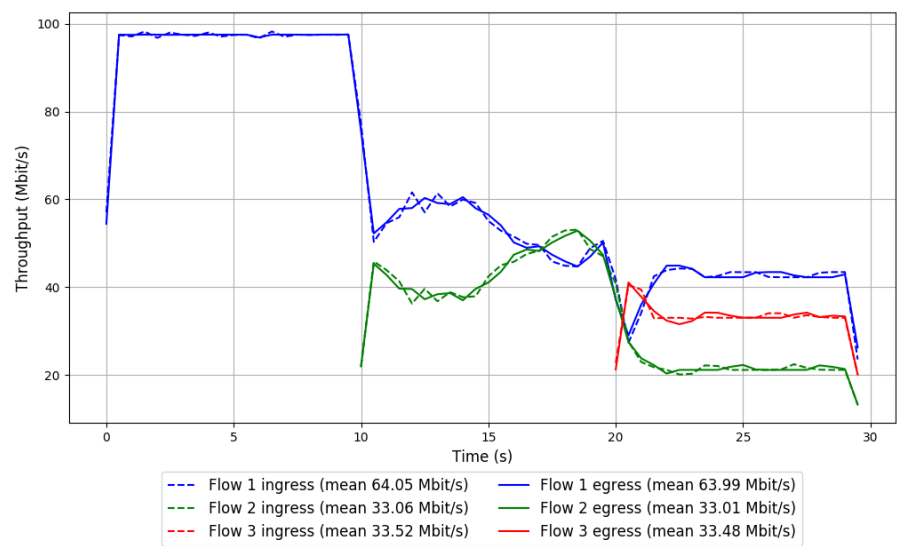
-- Flow 3:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 23.352 ms

Loss rate: 0.14%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-21 04:43:03

End at: 2018-03-21 04:43:33

Local clock offset: -5.79 ms

Remote clock offset: 1.894 ms

Below is generated by plot.py at 2018-03-21 07:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 20.022 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.62 Mbit/s

95th percentile per-packet one-way delay: 19.879 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.30 Mbit/s

95th percentile per-packet one-way delay: 20.847 ms

Loss rate: 0.00%

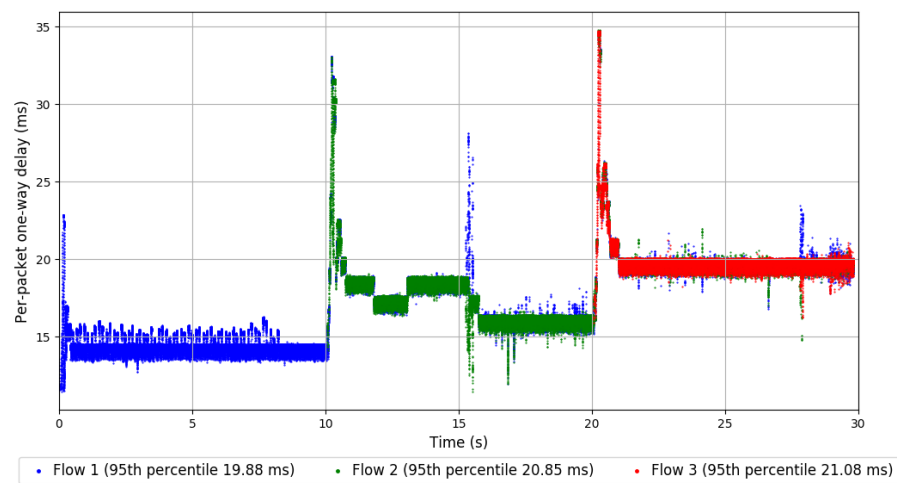
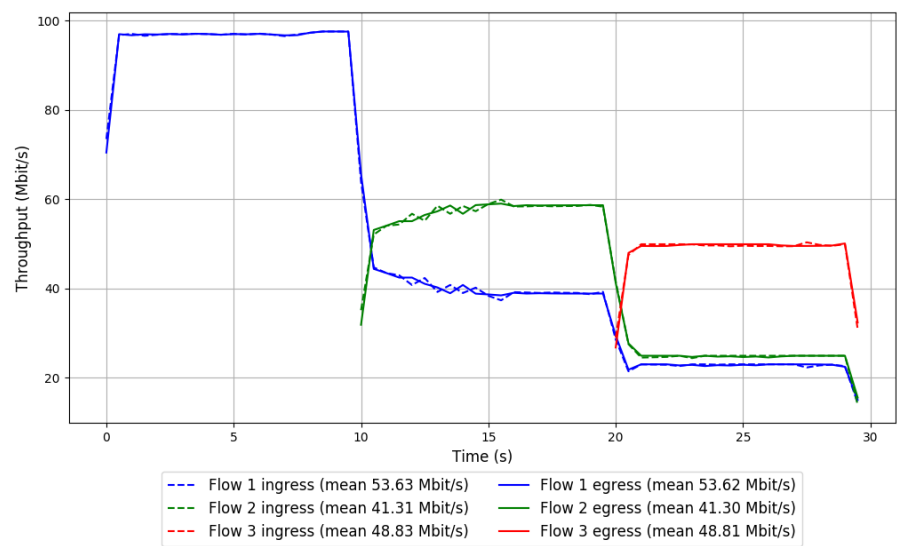
-- Flow 3:

Average throughput: 48.81 Mbit/s

95th percentile per-packet one-way delay: 21.079 ms

Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-21 05:04:07

End at: 2018-03-21 05:04:37

Local clock offset: -4.998 ms

Remote clock offset: 2.178 ms

Below is generated by plot.py at 2018-03-21 07:48:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 19.147 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 18.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.60 Mbit/s

95th percentile per-packet one-way delay: 19.488 ms

Loss rate: 0.00%

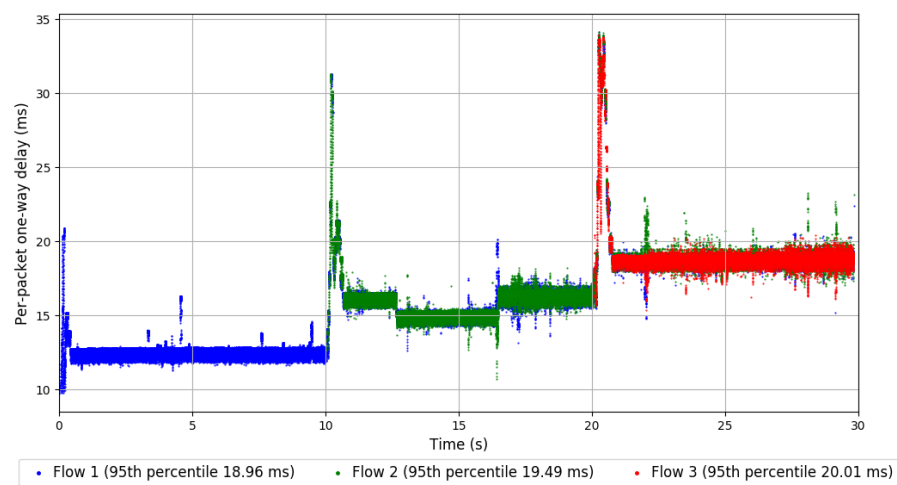
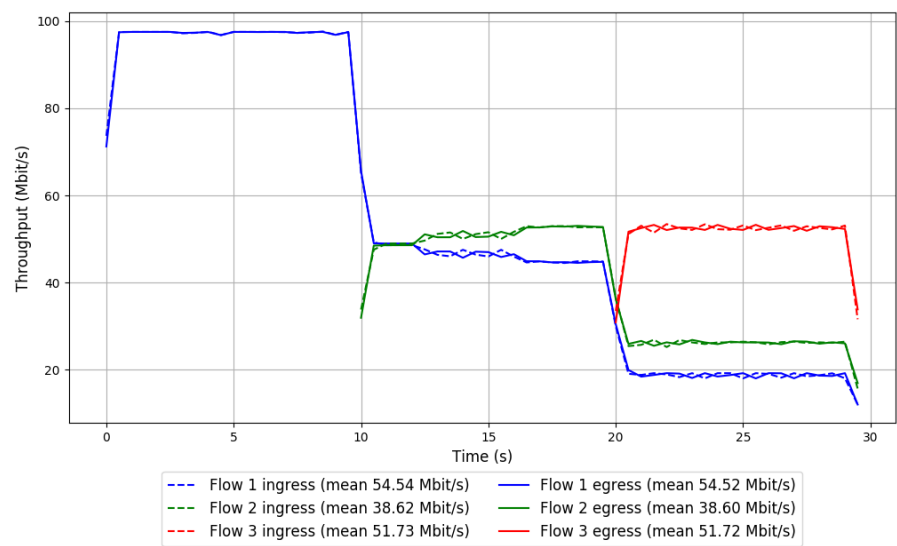
-- Flow 3:

Average throughput: 51.72 Mbit/s

95th percentile per-packet one-way delay: 20.011 ms

Loss rate: 0.01%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-21 05:25:19

End at: 2018-03-21 05:25:49

Local clock offset: -0.786 ms

Remote clock offset: 1.274 ms

Below is generated by plot.py at 2018-03-21 07:48:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.96 Mbit/s

95th percentile per-packet one-way delay: 22.509 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.59 Mbit/s

95th percentile per-packet one-way delay: 22.415 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 22.651 ms

Loss rate: 0.00%

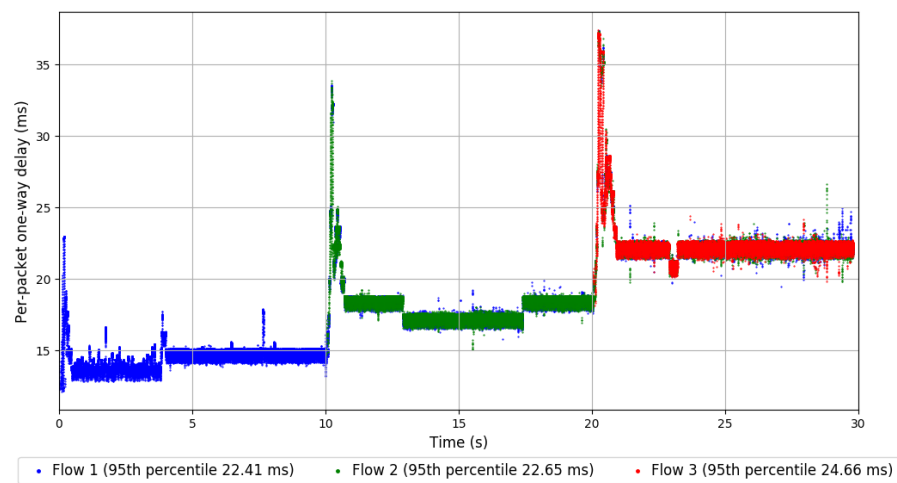
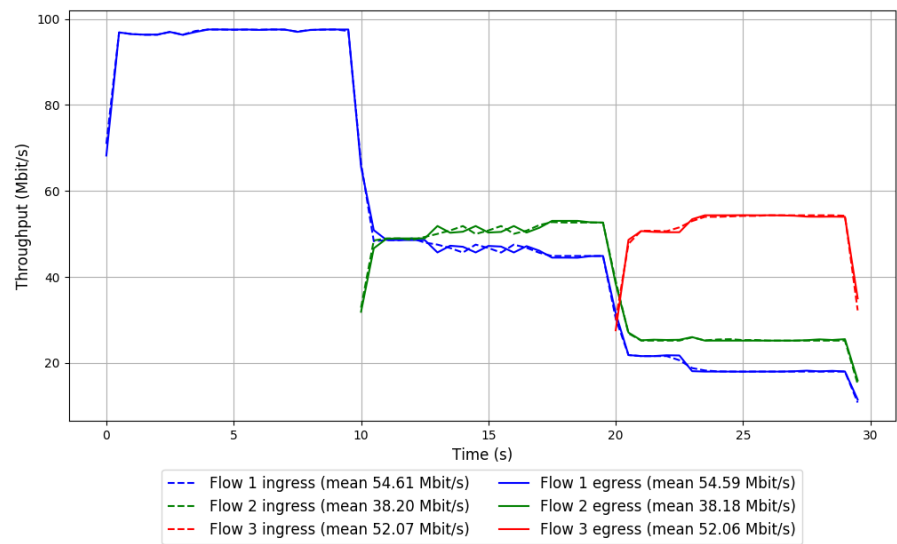
-- Flow 3:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 24.655 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-21 05:46:30

End at: 2018-03-21 05:47:00

Local clock offset: -2.238 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2018-03-21 07:48:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 18.910 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 18.413 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.67 Mbit/s

95th percentile per-packet one-way delay: 19.123 ms

Loss rate: 0.01%

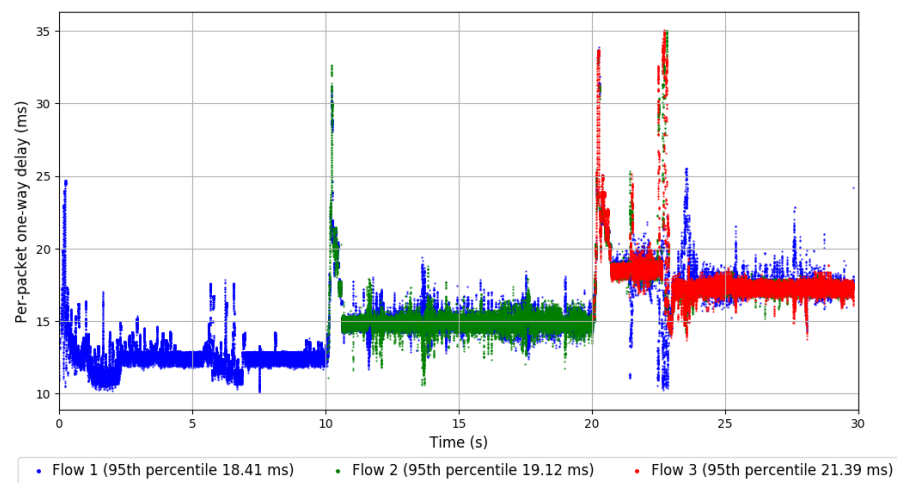
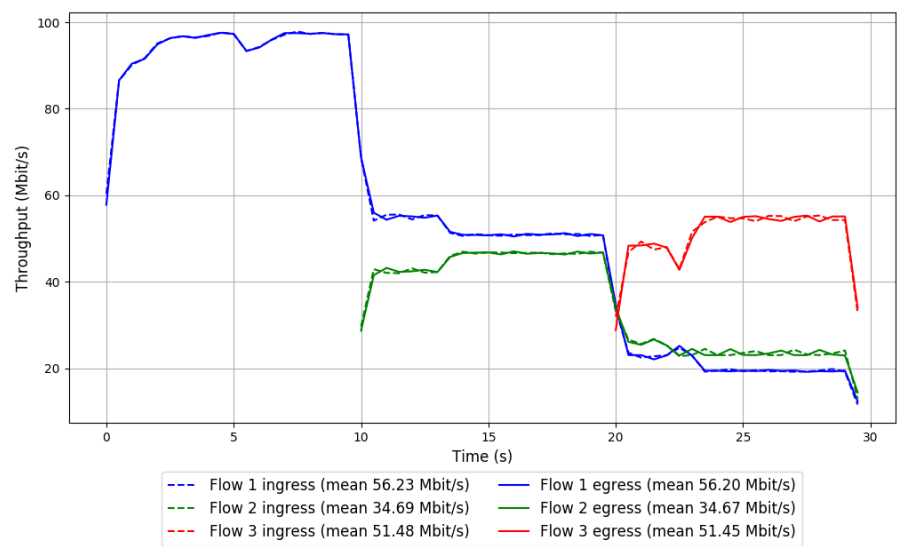
-- Flow 3:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 21.389 ms

Loss rate: 0.03%

Run 7: Report of Indigo-1-32 — Data Link

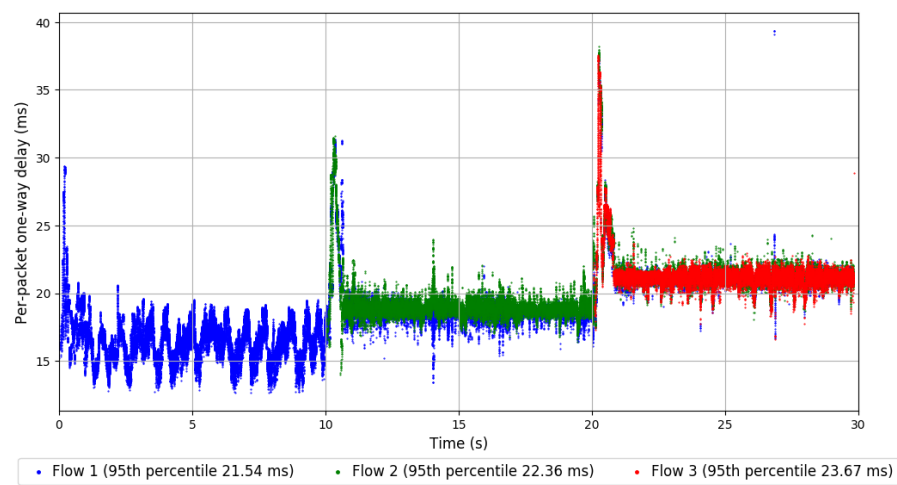
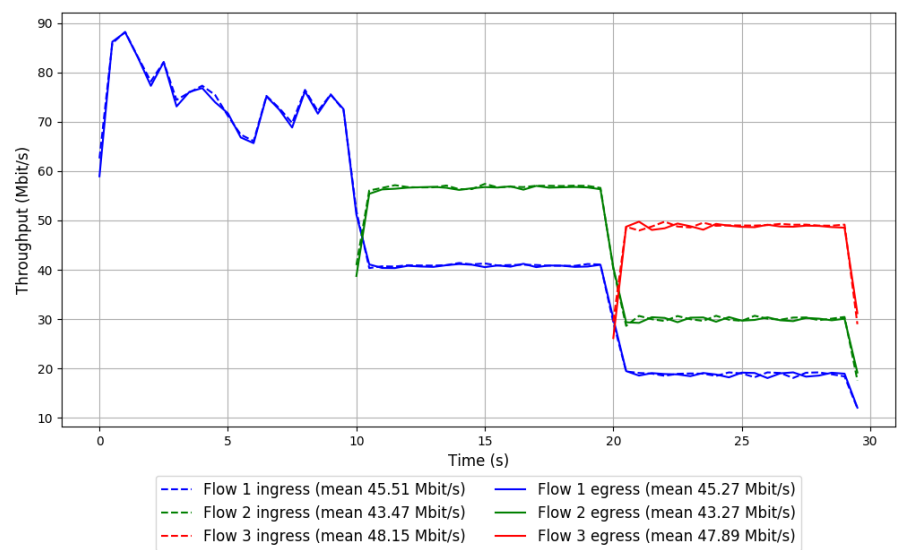


Run 8: Statistics of Indigo-1-32

Start at: 2018-03-21 06:07:59
End at: 2018-03-21 06:08:29
Local clock offset: -9.222 ms
Remote clock offset: -2.518 ms

Below is generated by plot.py at 2018-03-21 07:48:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 21.873 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 21.541 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 43.27 Mbit/s
95th percentile per-packet one-way delay: 22.363 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 47.89 Mbit/s
95th percentile per-packet one-way delay: 23.671 ms
Loss rate: 0.46%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-21 06:29:12

End at: 2018-03-21 06:29:42

Local clock offset: -1.364 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-03-21 07:48:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 18.412 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 47.95 Mbit/s

95th percentile per-packet one-way delay: 18.282 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 42.22 Mbit/s

95th percentile per-packet one-way delay: 18.401 ms

Loss rate: 0.55%

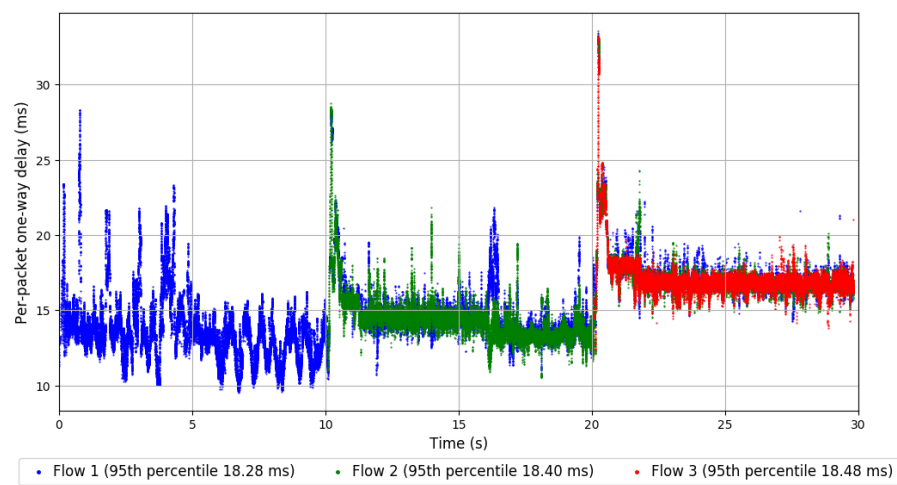
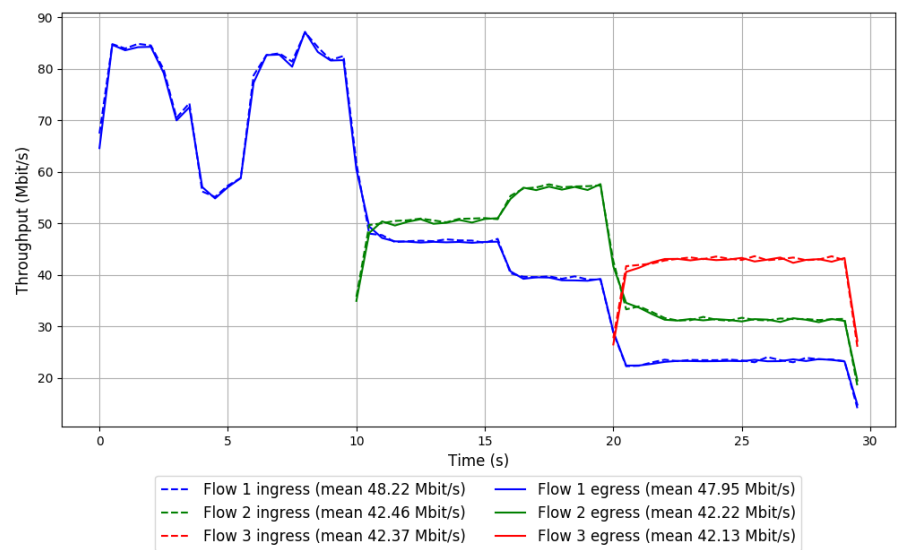
-- Flow 3:

Average throughput: 42.13 Mbit/s

95th percentile per-packet one-way delay: 18.481 ms

Loss rate: 0.52%

Run 9: Report of Indigo-1-32 — Data Link

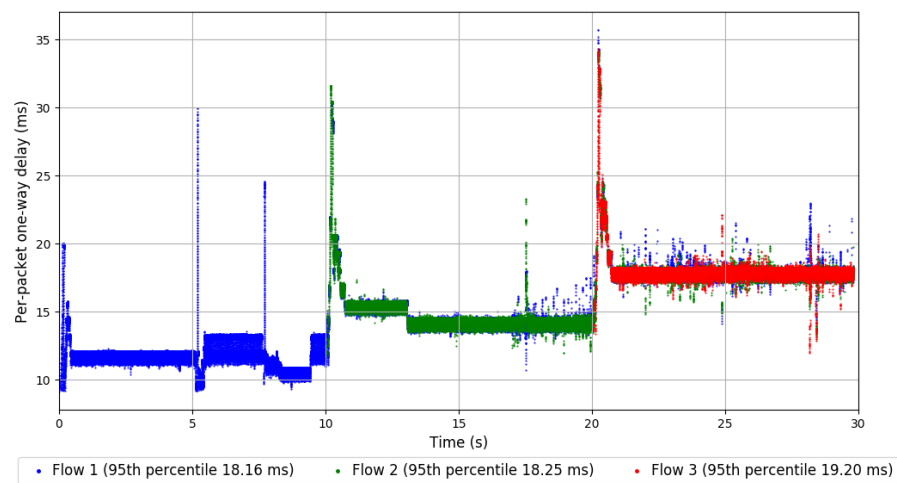
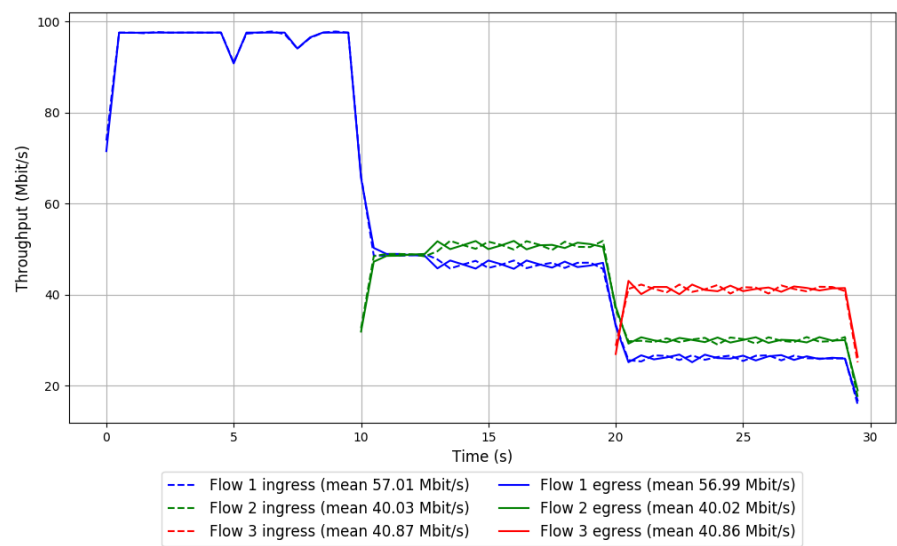


Run 10: Statistics of Indigo-1-32

Start at: 2018-03-21 06:50:57
End at: 2018-03-21 06:51:27
Local clock offset: -6.767 ms
Remote clock offset: -4.898 ms

Below is generated by plot.py at 2018-03-21 07:49:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 18.220 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 18.161 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 18.247 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.86 Mbit/s
95th percentile per-packet one-way delay: 19.197 ms
Loss rate: 0.00%

Run 10: Report of Indigo-1-32 — Data Link

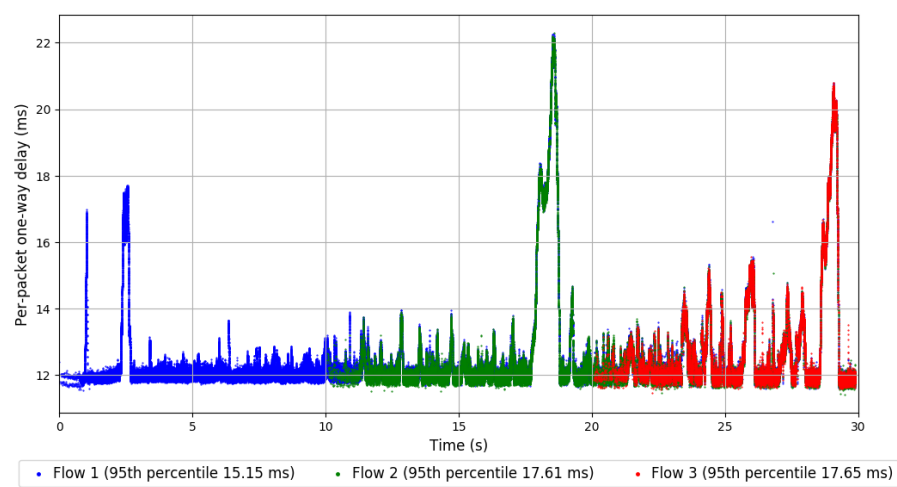
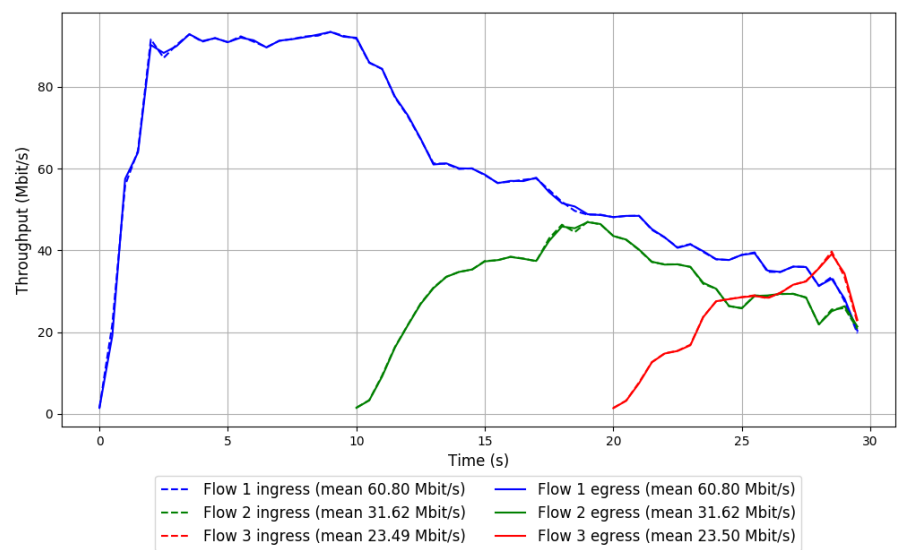


Run 1: Statistics of Vivace-latency

Start at: 2018-03-21 03:28:04
End at: 2018-03-21 03:28:34
Local clock offset: -12.232 ms
Remote clock offset: -3.787 ms

Below is generated by plot.py at 2018-03-21 07:49:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.57 Mbit/s
95th percentile per-packet one-way delay: 16.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.80 Mbit/s
95th percentile per-packet one-way delay: 15.155 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 17.608 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.50 Mbit/s
95th percentile per-packet one-way delay: 17.653 ms
Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link

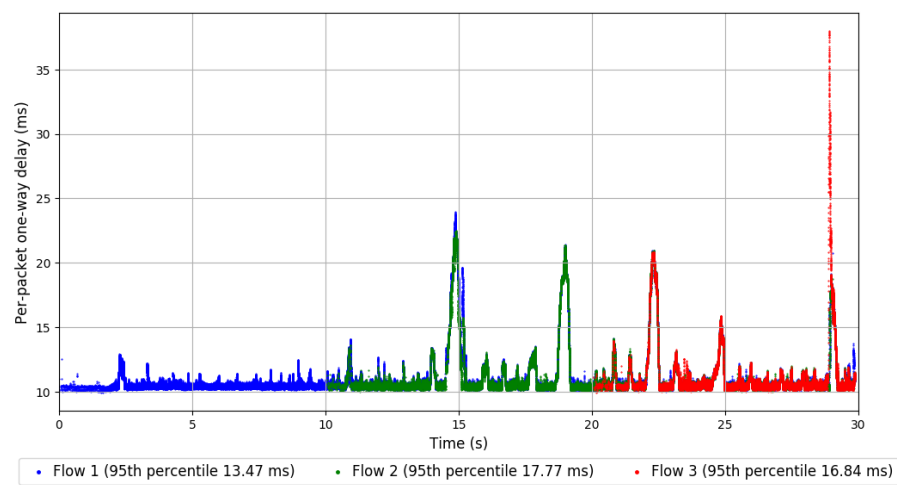
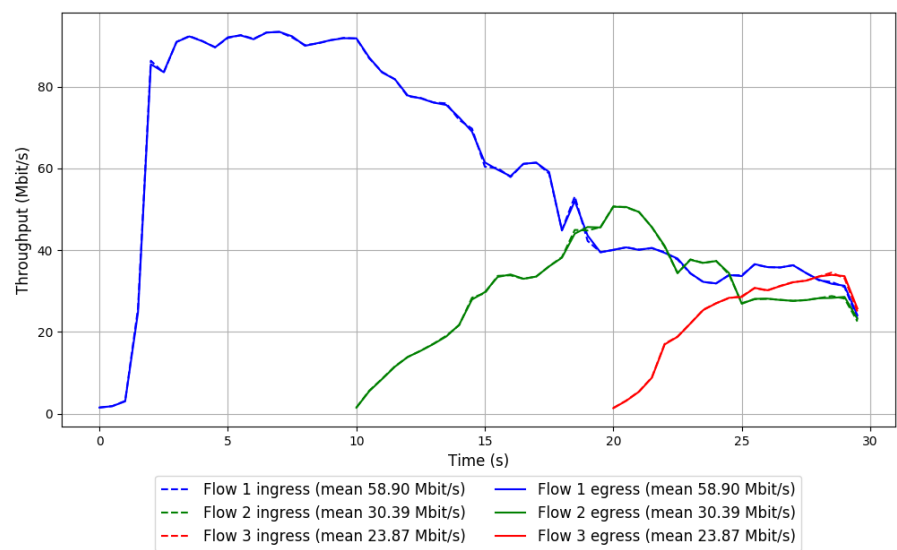


Run 2: Statistics of Vivace-latency

Start at: 2018-03-21 03:49:15
End at: 2018-03-21 03:49:45
Local clock offset: -12.419 ms
Remote clock offset: -2.09 ms

Below is generated by plot.py at 2018-03-21 07:49:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 15.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 13.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.39 Mbit/s
95th percentile per-packet one-way delay: 17.766 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 16.845 ms
Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link

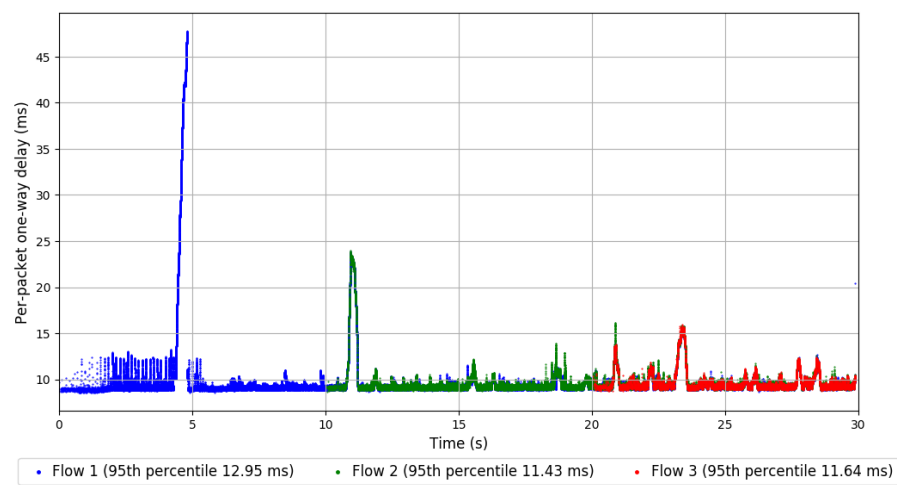
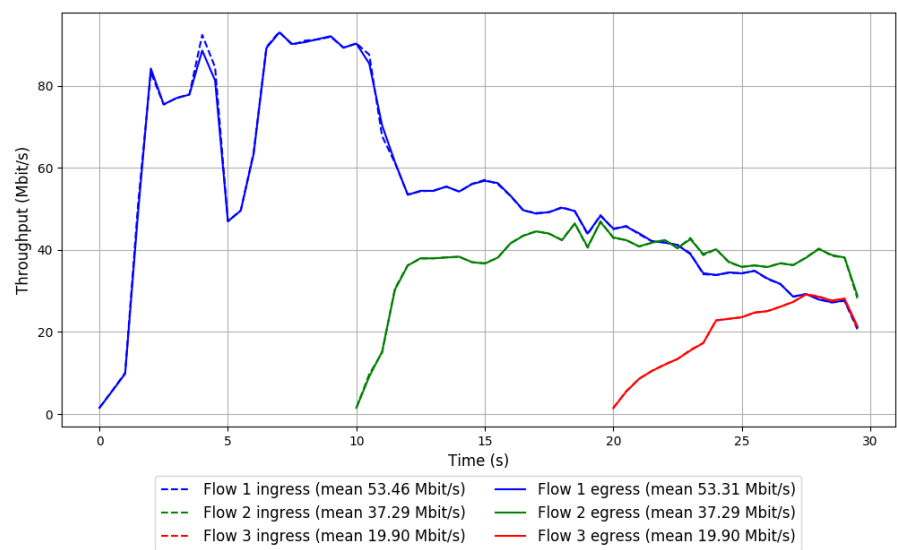


Run 3: Statistics of Vivace-latency

Start at: 2018-03-21 04:10:49
End at: 2018-03-21 04:11:19
Local clock offset: -0.453 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-03-21 07:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.67 Mbit/s
95th percentile per-packet one-way delay: 11.946 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 53.31 Mbit/s
95th percentile per-packet one-way delay: 12.950 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 11.430 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 11.643 ms
Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-21 04:32:34

End at: 2018-03-21 04:33:04

Local clock offset: 1.498 ms

Remote clock offset: 2.89 ms

Below is generated by plot.py at 2018-03-21 07:50:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 12.938 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 52.62 Mbit/s

95th percentile per-packet one-way delay: 12.176 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 34.05 Mbit/s

95th percentile per-packet one-way delay: 14.069 ms

Loss rate: 0.01%

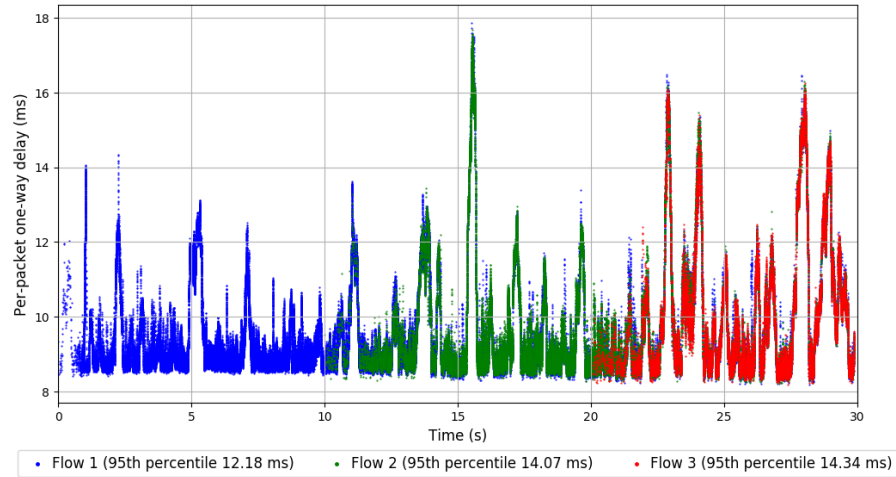
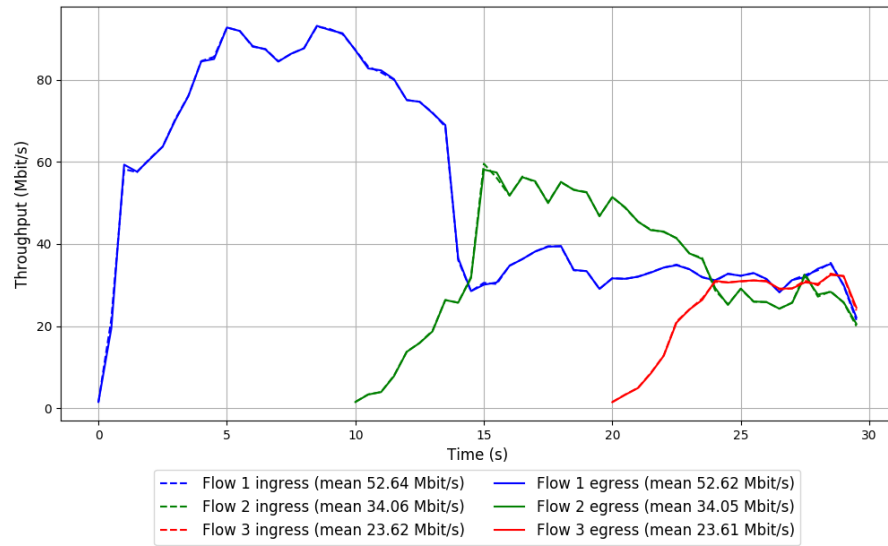
-- Flow 3:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 14.339 ms

Loss rate: 0.02%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-21 04:53:40

End at: 2018-03-21 04:54:10

Local clock offset: -4.305 ms

Remote clock offset: 2.315 ms

Below is generated by plot.py at 2018-03-21 07:50:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 13.761 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 13.734 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 15.719 ms

Loss rate: 0.00%

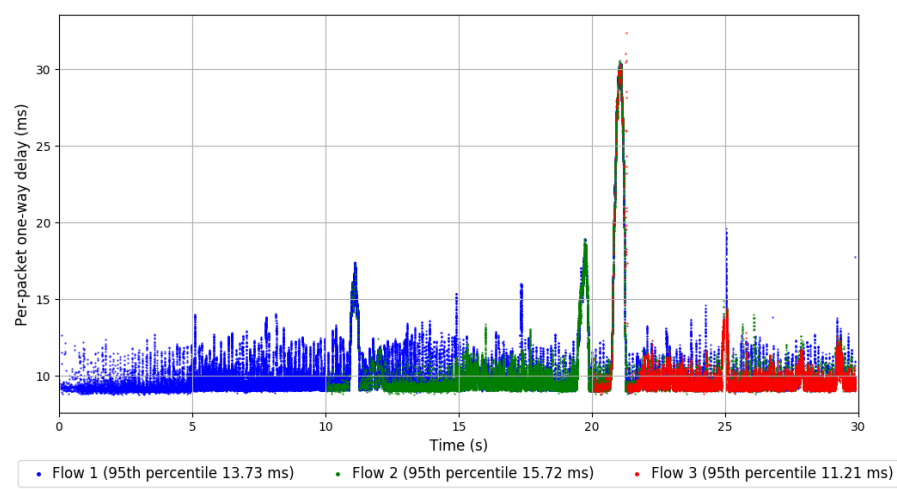
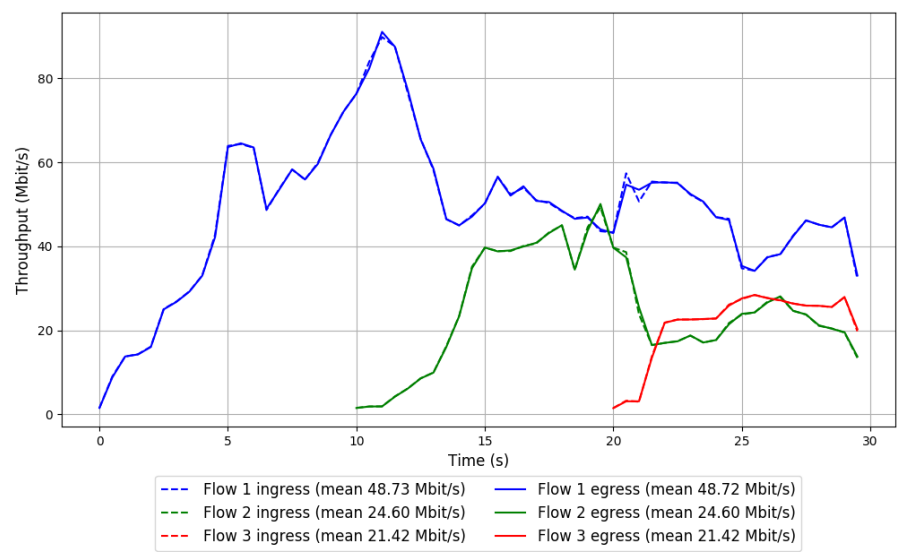
-- Flow 3:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 11.215 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-21 05:14:43

End at: 2018-03-21 05:15:13

Local clock offset: 1.055 ms

Remote clock offset: 2.025 ms

Below is generated by plot.py at 2018-03-21 07:50:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 13.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 13.203 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.48 Mbit/s

95th percentile per-packet one-way delay: 15.676 ms

Loss rate: 0.00%

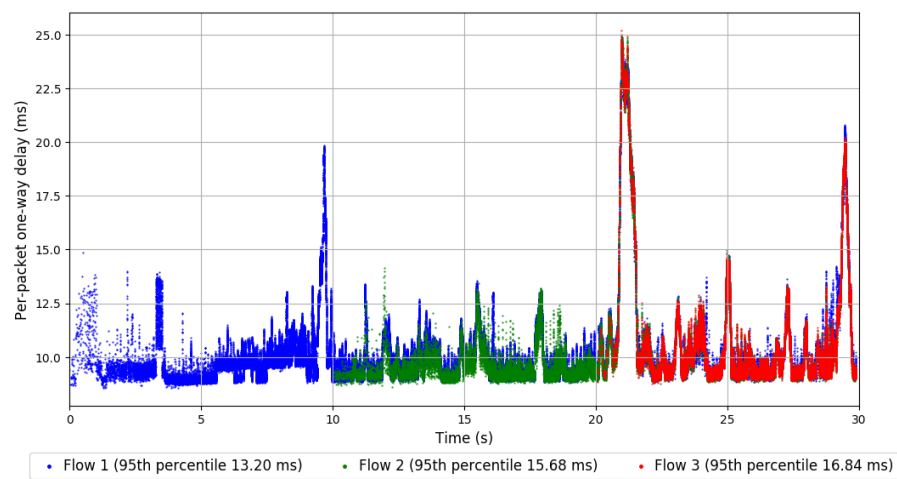
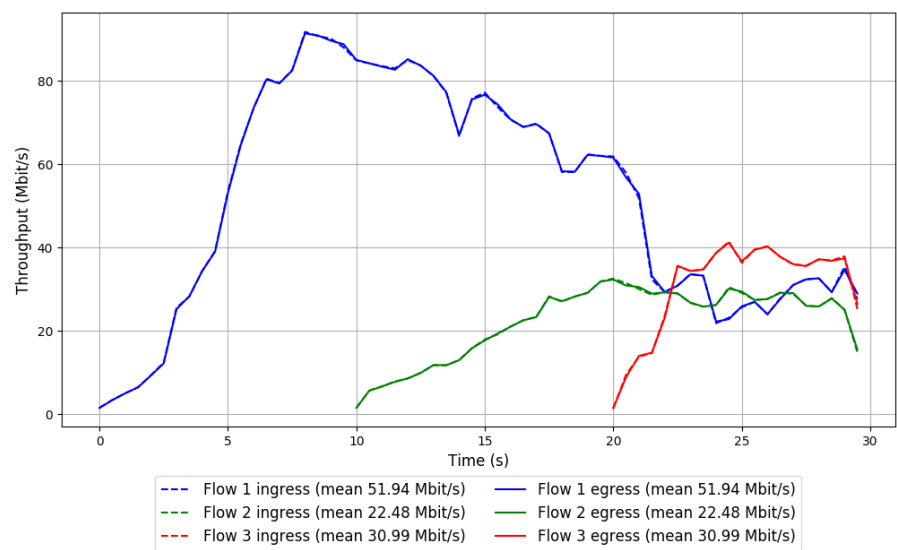
-- Flow 3:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 16.836 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-21 05:35:51

End at: 2018-03-21 05:36:21

Local clock offset: 2.007 ms

Remote clock offset: 0.651 ms

Below is generated by plot.py at 2018-03-21 07:50:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.51 Mbit/s

95th percentile per-packet one-way delay: 15.001 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.37 Mbit/s

95th percentile per-packet one-way delay: 14.300 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.49 Mbit/s

95th percentile per-packet one-way delay: 16.197 ms

Loss rate: 0.00%

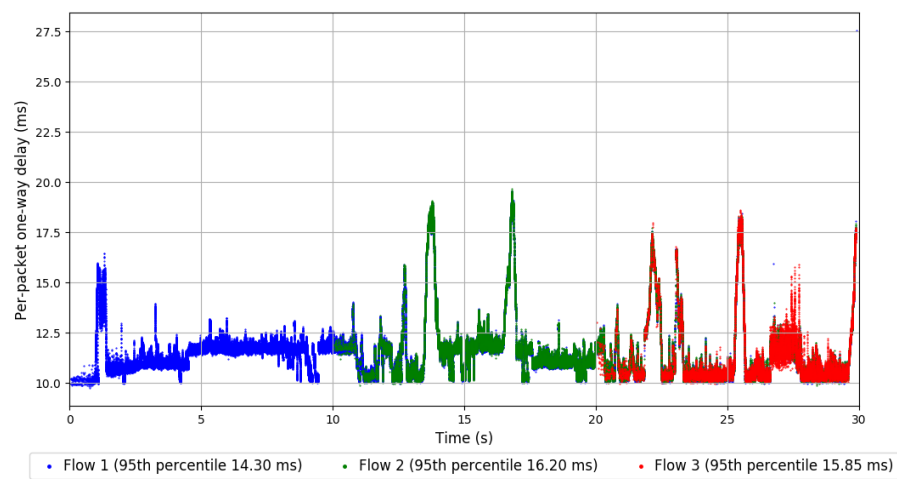
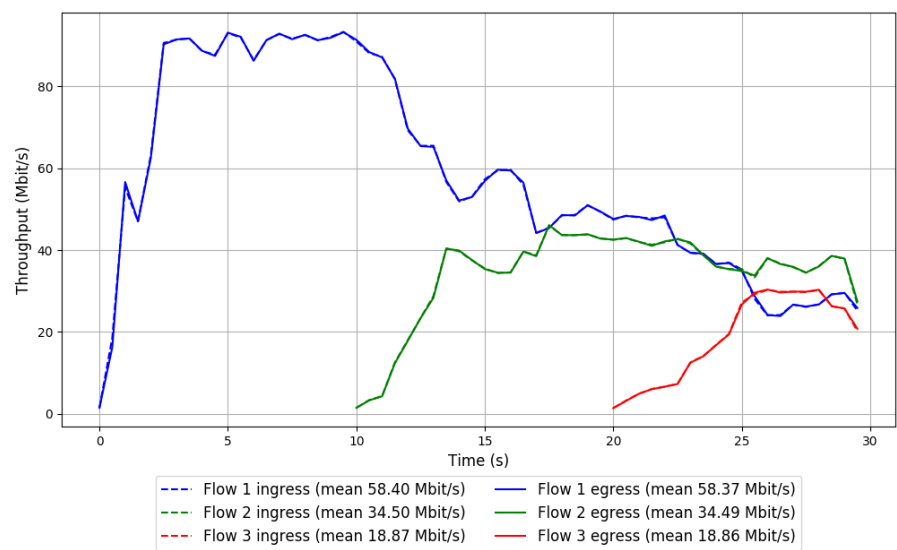
-- Flow 3:

Average throughput: 18.86 Mbit/s

95th percentile per-packet one-way delay: 15.852 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link

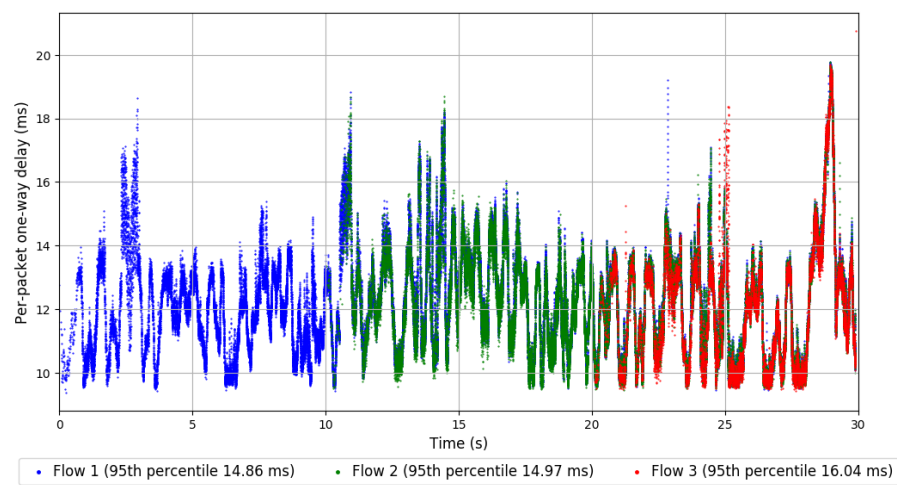
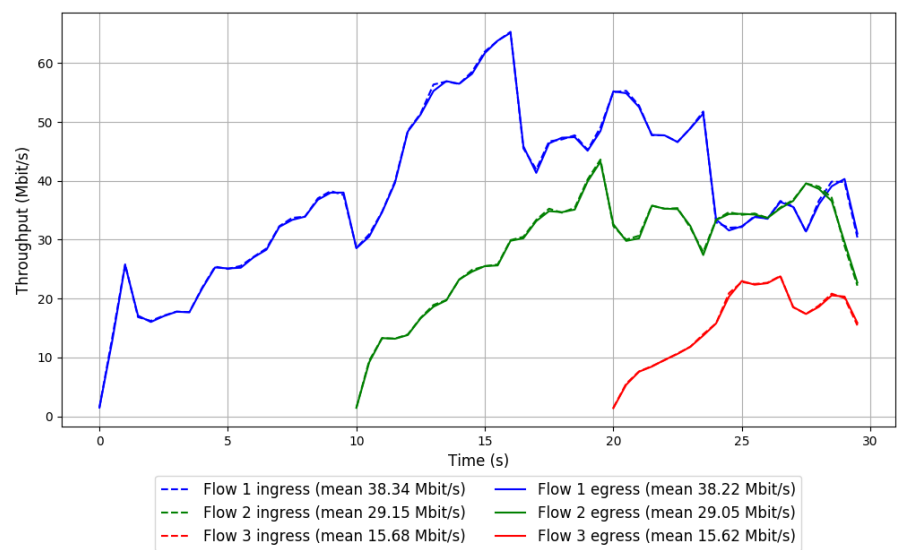


Run 8: Statistics of Vivace-latency

Start at: 2018-03-21 05:57:17
End at: 2018-03-21 05:57:47
Local clock offset: -4.535 ms
Remote clock offset: -1.345 ms

Below is generated by plot.py at 2018-03-21 07:50:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.66 Mbit/s
95th percentile per-packet one-way delay: 14.940 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 38.22 Mbit/s
95th percentile per-packet one-way delay: 14.863 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 29.05 Mbit/s
95th percentile per-packet one-way delay: 14.972 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 15.62 Mbit/s
95th percentile per-packet one-way delay: 16.037 ms
Loss rate: 0.35%

Run 8: Report of Vivace-latency — Data Link

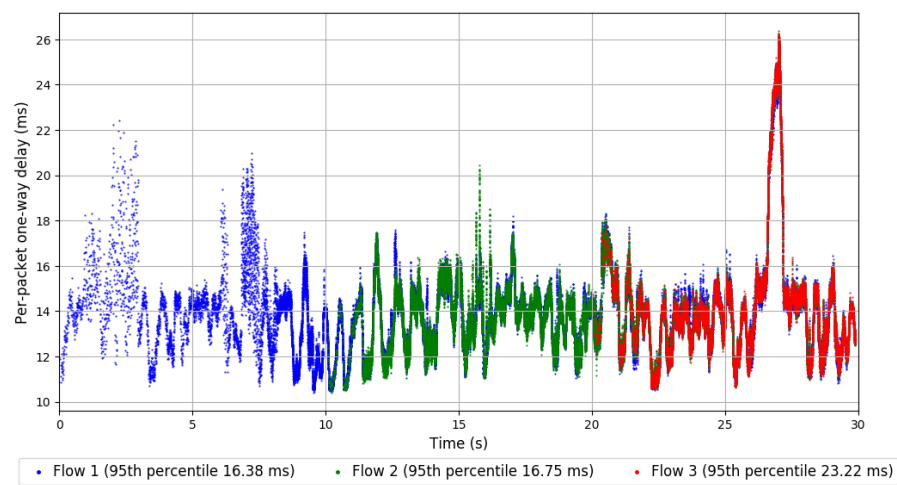
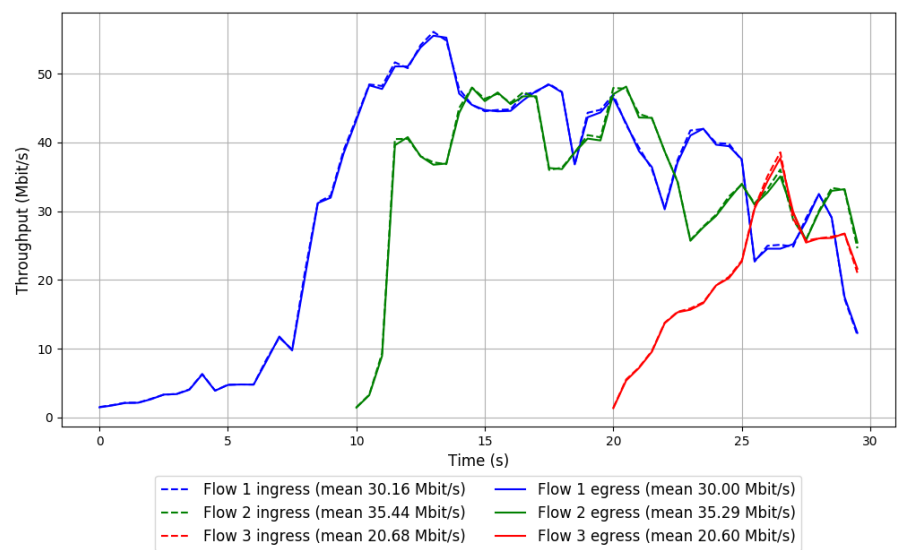


Run 9: Statistics of Vivace-latency

Start at: 2018-03-21 06:18:41
End at: 2018-03-21 06:19:11
Local clock offset: -4.373 ms
Remote clock offset: -1.868 ms

Below is generated by plot.py at 2018-03-21 07:50:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.24 Mbit/s
95th percentile per-packet one-way delay: 16.793 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 30.00 Mbit/s
95th percentile per-packet one-way delay: 16.379 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 16.750 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 23.219 ms
Loss rate: 0.44%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-21 06:39:54

End at: 2018-03-21 06:40:24

Local clock offset: -3.174 ms

Remote clock offset: 0.703 ms

Below is generated by plot.py at 2018-03-21 07:50:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.54 Mbit/s

95th percentile per-packet one-way delay: 28.058 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 28.983 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 33.62 Mbit/s

95th percentile per-packet one-way delay: 25.499 ms

Loss rate: 0.00%

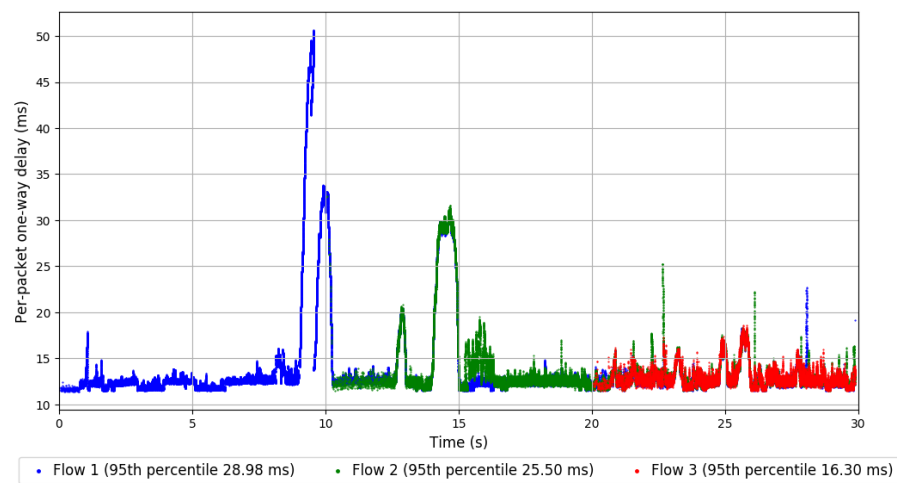
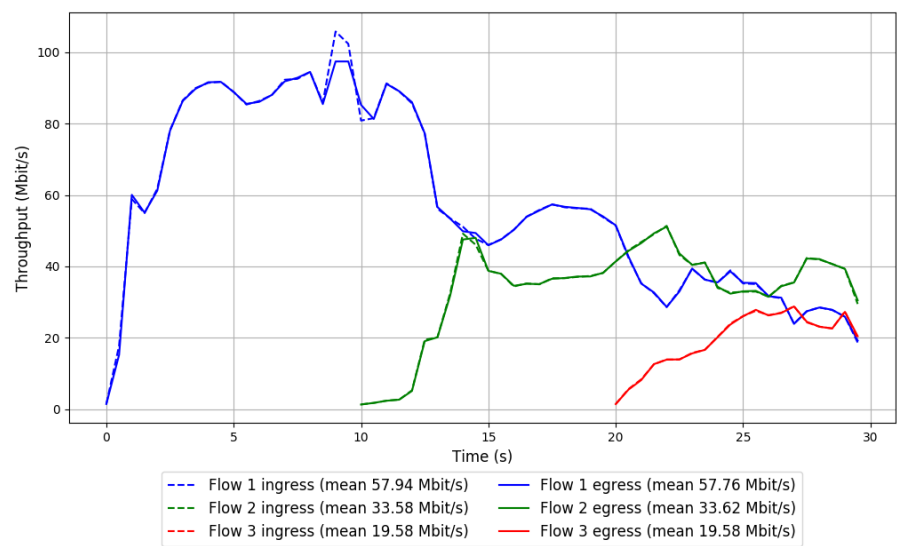
-- Flow 3:

Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 16.295 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

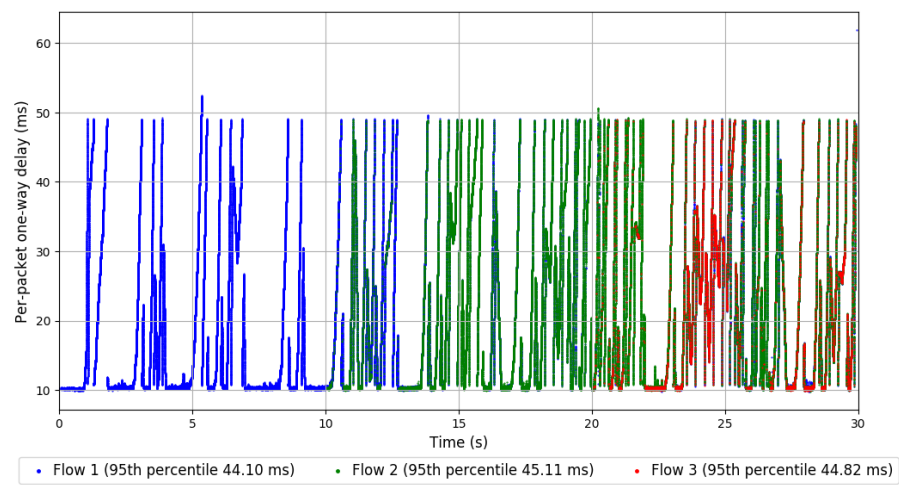
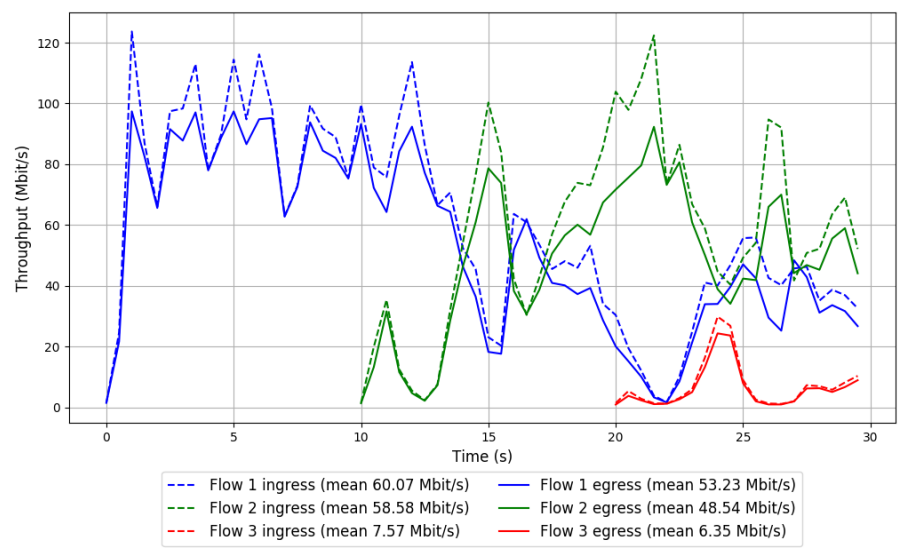


Run 1: Statistics of Vivace-loss

Start at: 2018-03-21 03:29:16
End at: 2018-03-21 03:29:46
Local clock offset: -12.038 ms
Remote clock offset: -4.896 ms

Below is generated by plot.py at 2018-03-21 07:50:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 44.550 ms
Loss rate: 13.55%
-- Flow 1:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 44.098 ms
Loss rate: 11.23%
-- Flow 2:
Average throughput: 48.54 Mbit/s
95th percentile per-packet one-way delay: 45.114 ms
Loss rate: 16.97%
-- Flow 3:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 44.823 ms
Loss rate: 15.81%

Run 1: Report of Vivace-loss — Data Link

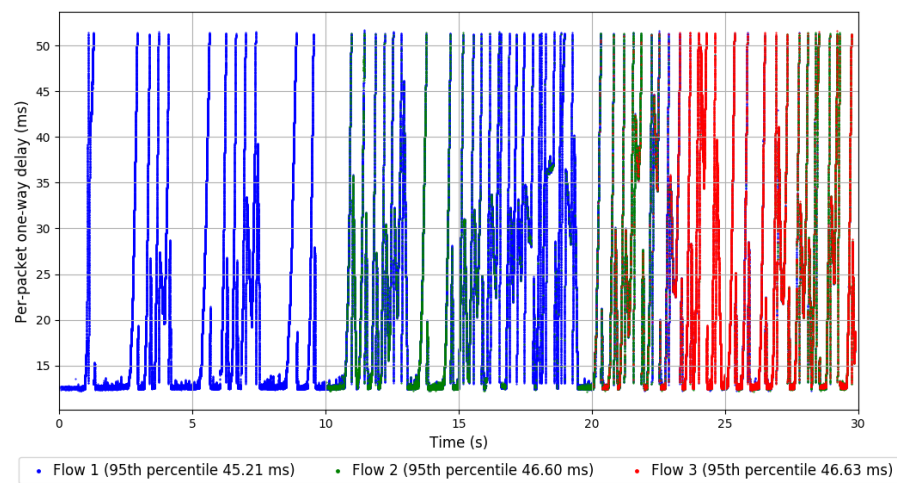
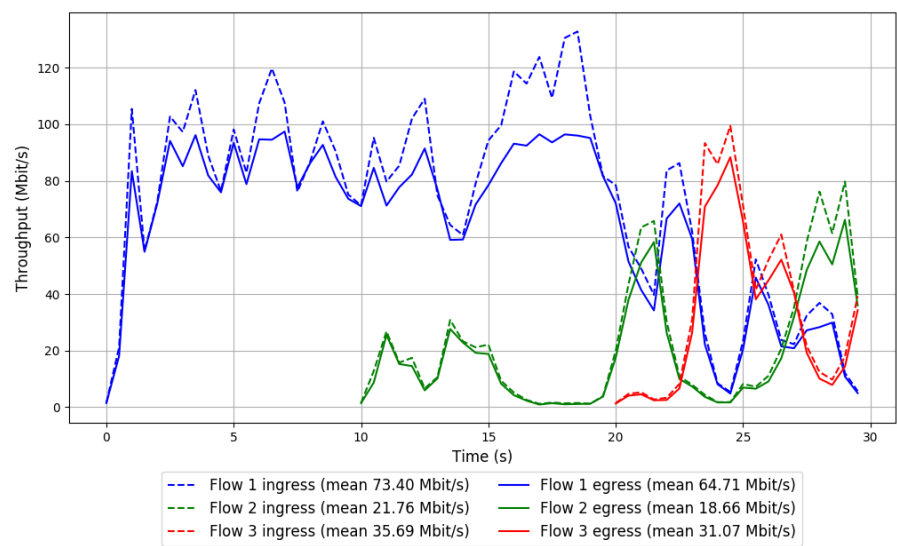


Run 2: Statistics of Vivace-loss

Start at: 2018-03-21 03:50:29
End at: 2018-03-21 03:50:59
Local clock offset: -15.595 ms
Remote clock offset: -2.793 ms

Below is generated by plot.py at 2018-03-21 07:51:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.38 Mbit/s
95th percentile per-packet one-way delay: 45.649 ms
Loss rate: 12.29%
-- Flow 1:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 45.211 ms
Loss rate: 11.82%
-- Flow 2:
Average throughput: 18.66 Mbit/s
95th percentile per-packet one-way delay: 46.603 ms
Loss rate: 14.19%
-- Flow 3:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 46.631 ms
Loss rate: 12.89%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-21 04:12:01

End at: 2018-03-21 04:12:31

Local clock offset: 0.11 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-03-21 07:51:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 42.658 ms

Loss rate: 11.81%

-- Flow 1:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 42.897 ms

Loss rate: 10.91%

-- Flow 2:

Average throughput: 40.03 Mbit/s

95th percentile per-packet one-way delay: 42.226 ms

Loss rate: 13.75%

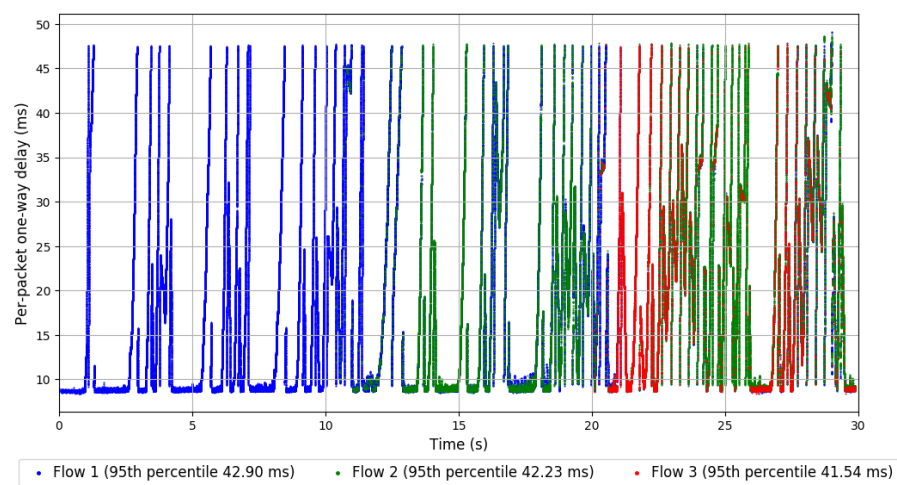
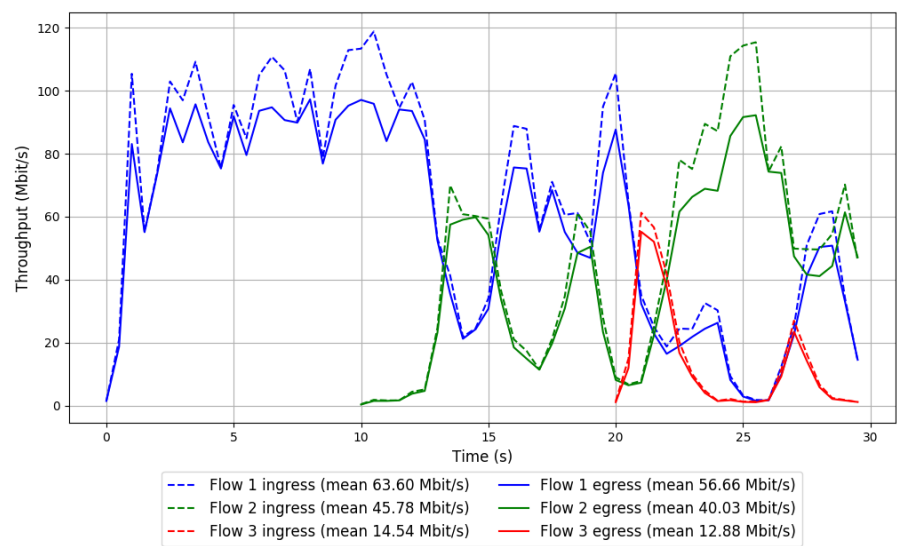
-- Flow 3:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 41.542 ms

Loss rate: 11.51%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-21 04:33:46

End at: 2018-03-21 04:34:16

Local clock offset: -1.971 ms

Remote clock offset: 1.936 ms

Below is generated by plot.py at 2018-03-21 07:51:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.80 Mbit/s

95th percentile per-packet one-way delay: 45.051 ms

Loss rate: 12.50%

-- Flow 1:

Average throughput: 67.62 Mbit/s

95th percentile per-packet one-way delay: 44.991 ms

Loss rate: 12.55%

-- Flow 2:

Average throughput: 20.76 Mbit/s

95th percentile per-packet one-way delay: 44.835 ms

Loss rate: 12.33%

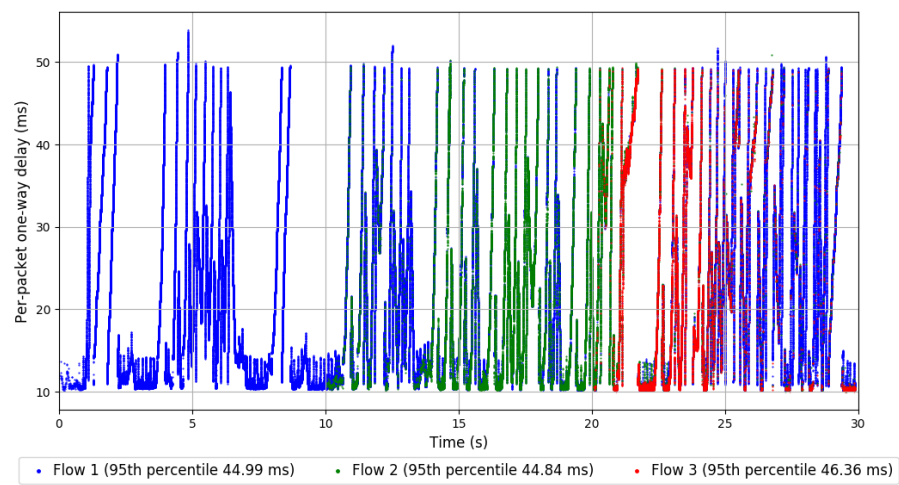
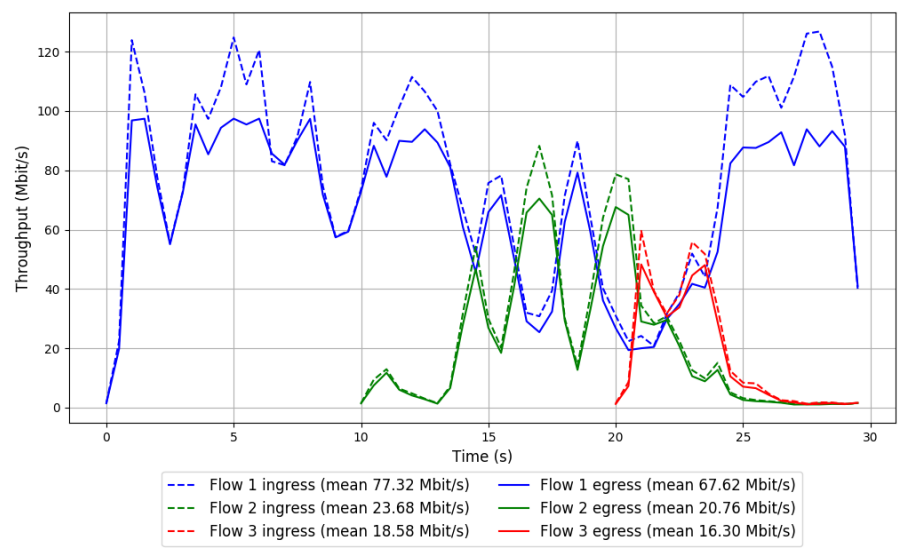
-- Flow 3:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 46.362 ms

Loss rate: 12.33%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-21 04:54:51

End at: 2018-03-21 04:55:21

Local clock offset: -5.571 ms

Remote clock offset: 2.385 ms

Below is generated by plot.py at 2018-03-21 07:51:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 44.817 ms

Loss rate: 12.17%

-- Flow 1:

Average throughput: 61.49 Mbit/s

95th percentile per-packet one-way delay: 44.518 ms

Loss rate: 11.23%

-- Flow 2:

Average throughput: 24.96 Mbit/s

95th percentile per-packet one-way delay: 44.811 ms

Loss rate: 13.20%

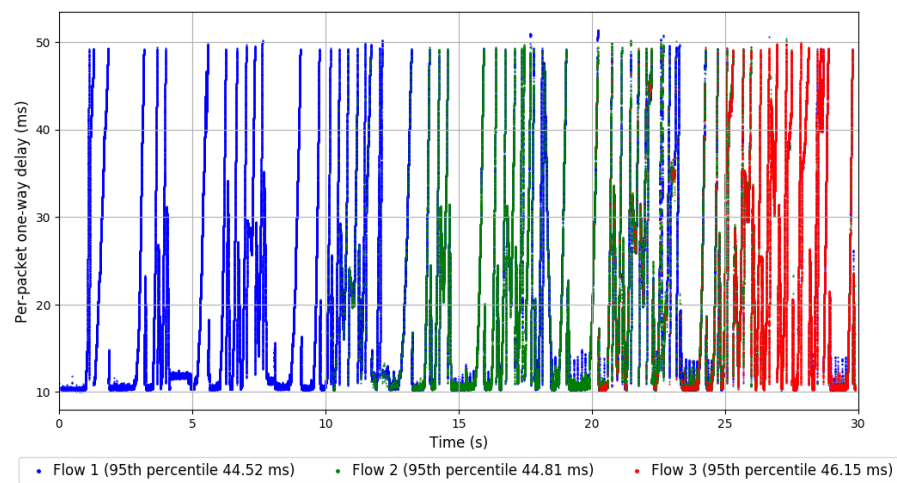
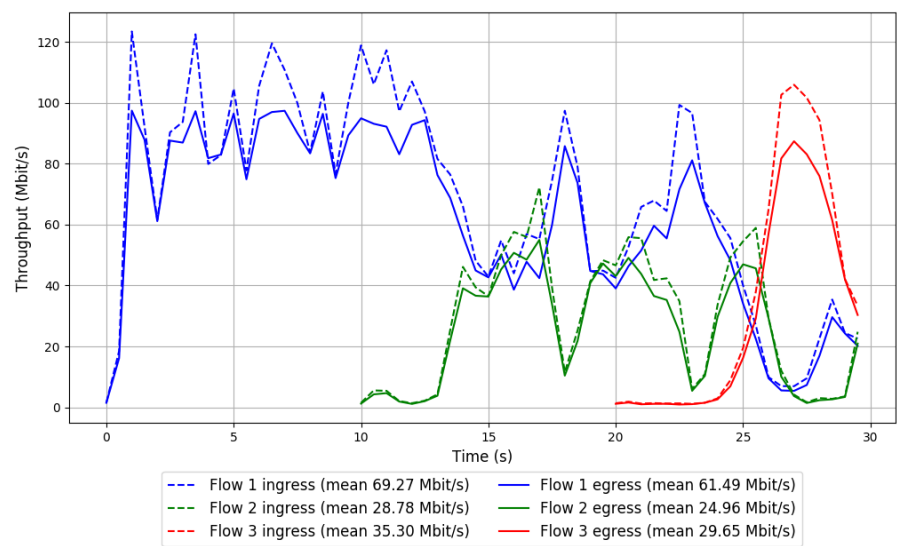
-- Flow 3:

Average throughput: 29.65 Mbit/s

95th percentile per-packet one-way delay: 46.145 ms

Loss rate: 16.08%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-21 05:15:57

End at: 2018-03-21 05:16:27

Local clock offset: 0.659 ms

Remote clock offset: 1.097 ms

Below is generated by plot.py at 2018-03-21 07:51:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 42.486 ms

Loss rate: 12.70%

-- Flow 1:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 42.602 ms

Loss rate: 10.69%

-- Flow 2:

Average throughput: 44.08 Mbit/s

95th percentile per-packet one-way delay: 42.179 ms

Loss rate: 14.61%

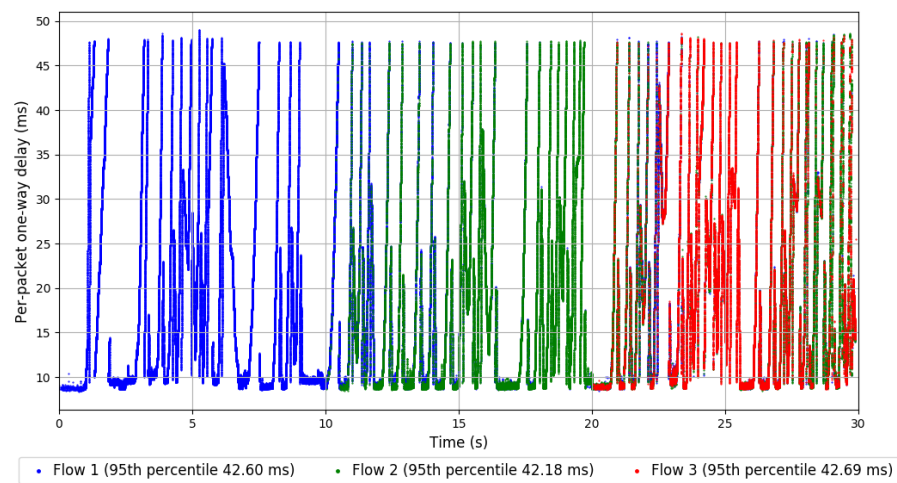
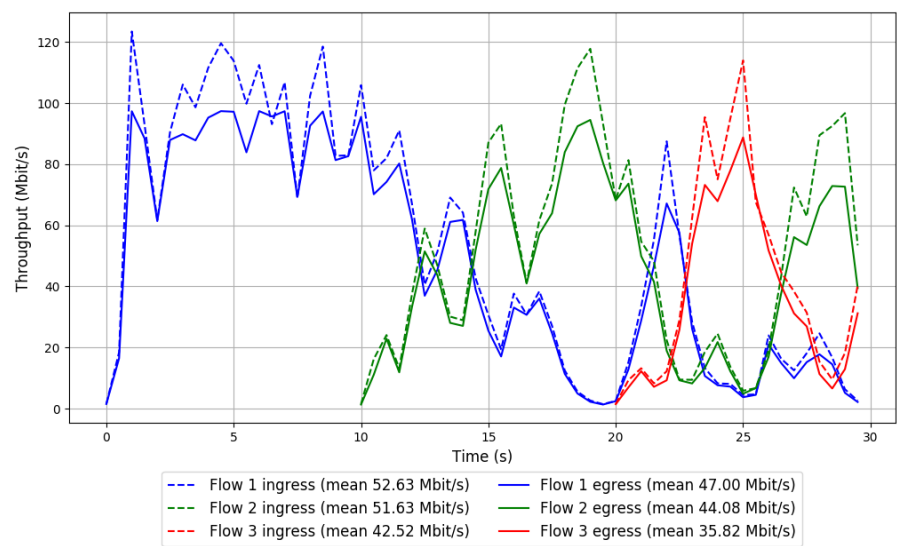
-- Flow 3:

Average throughput: 35.82 Mbit/s

95th percentile per-packet one-way delay: 42.693 ms

Loss rate: 15.62%

Run 6: Report of Vivace-loss — Data Link

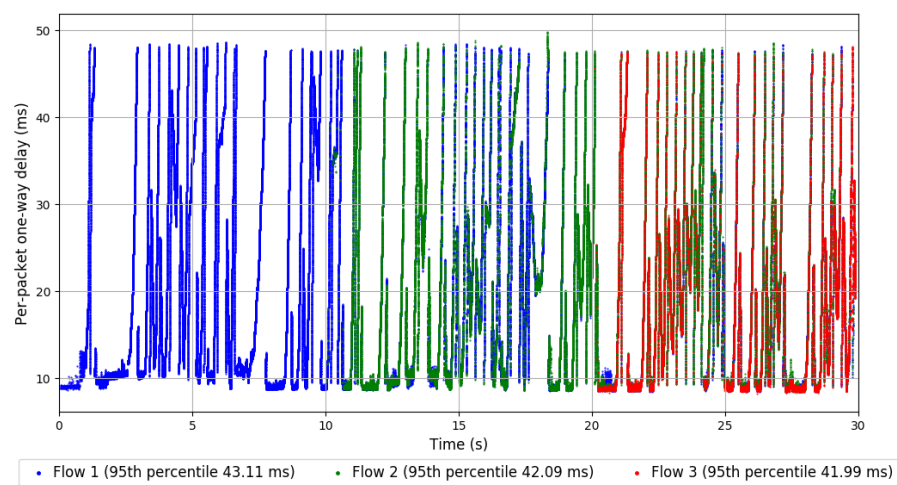
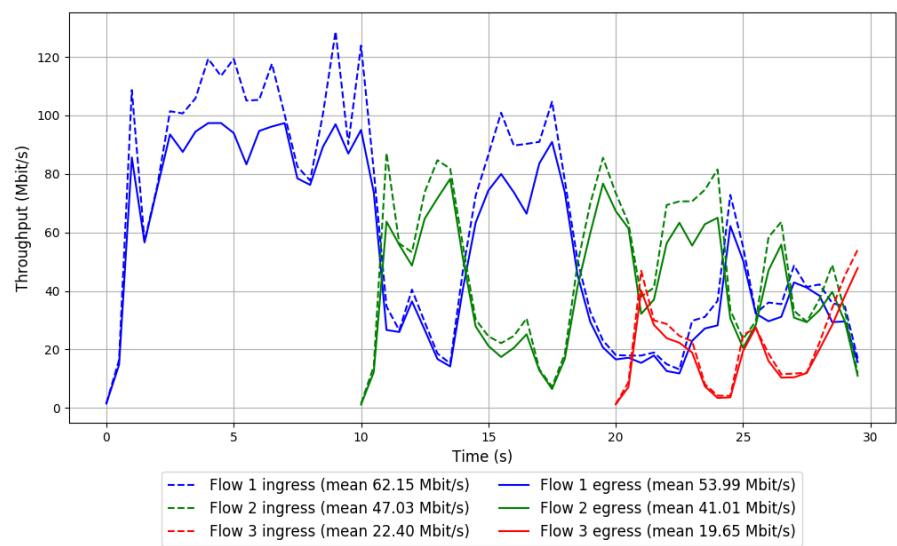


Run 7: Statistics of Vivace-loss

Start at: 2018-03-21 05:37:03
End at: 2018-03-21 05:37:33
Local clock offset: -3.523 ms
Remote clock offset: -5.829 ms

Below is generated by plot.py at 2018-03-21 07:51:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 42.774 ms
Loss rate: 12.94%
-- Flow 1:
Average throughput: 53.99 Mbit/s
95th percentile per-packet one-way delay: 43.111 ms
Loss rate: 13.10%
-- Flow 2:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 42.086 ms
Loss rate: 12.75%
-- Flow 3:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 41.993 ms
Loss rate: 12.41%

Run 7: Report of Vivace-loss — Data Link

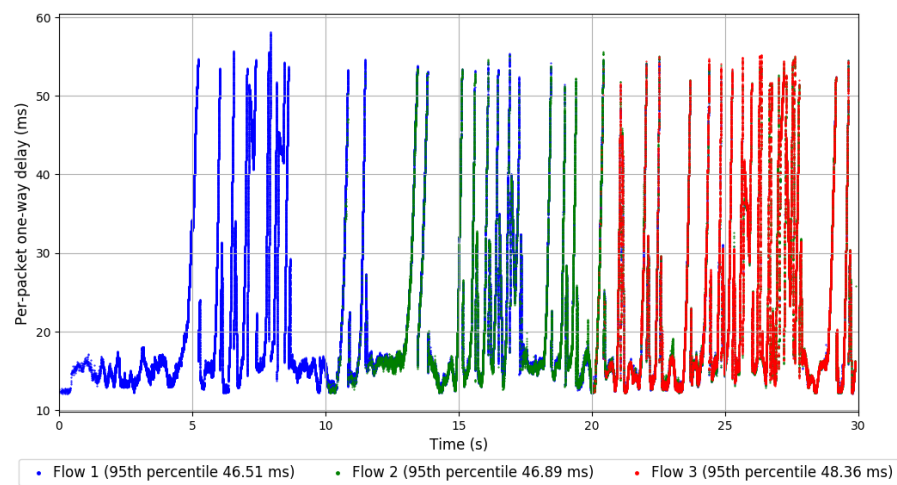
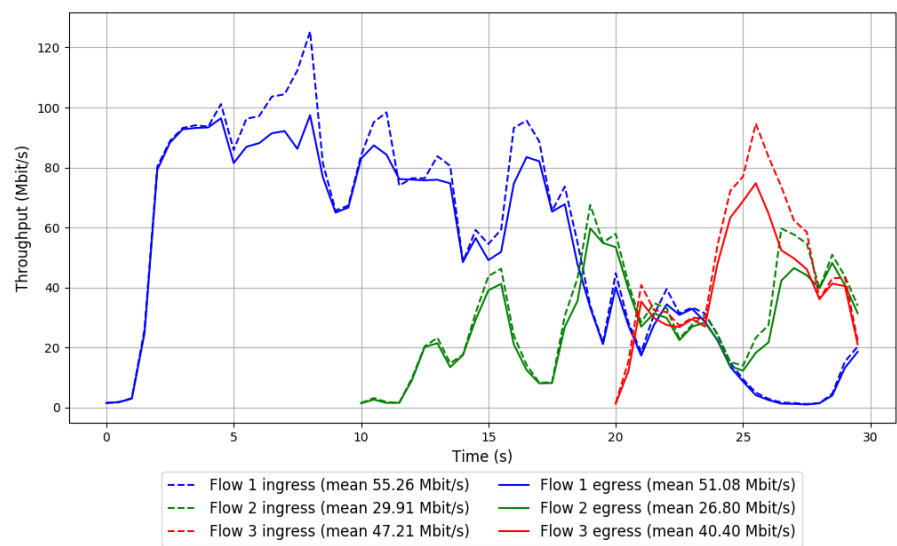


Run 8: Statistics of Vivace-loss

Start at: 2018-03-21 05:58:28
End at: 2018-03-21 05:58:58
Local clock offset: -6.947 ms
Remote clock offset: -0.983 ms

Below is generated by plot.py at 2018-03-21 07:51:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 46.978 ms
Loss rate: 9.33%
-- Flow 1:
Average throughput: 51.08 Mbit/s
95th percentile per-packet one-way delay: 46.507 ms
Loss rate: 7.55%
-- Flow 2:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 46.886 ms
Loss rate: 10.32%
-- Flow 3:
Average throughput: 40.40 Mbit/s
95th percentile per-packet one-way delay: 48.363 ms
Loss rate: 14.39%

Run 8: Report of Vivace-loss — Data Link

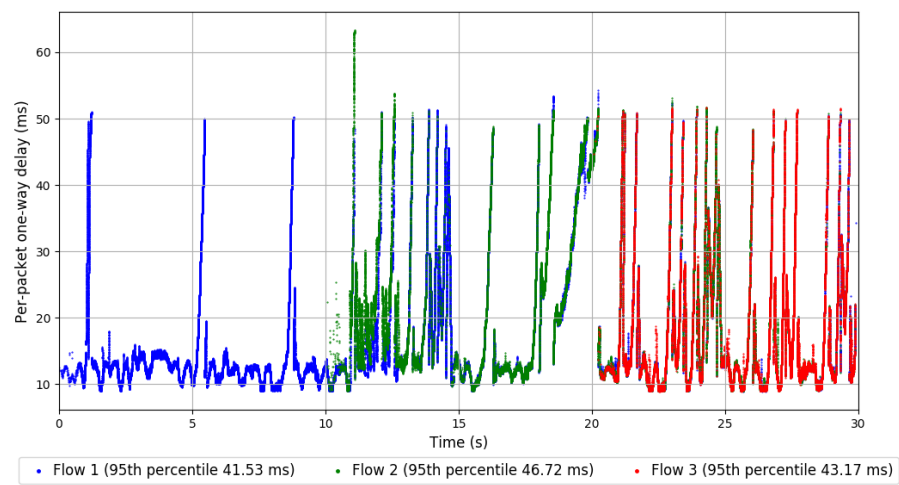
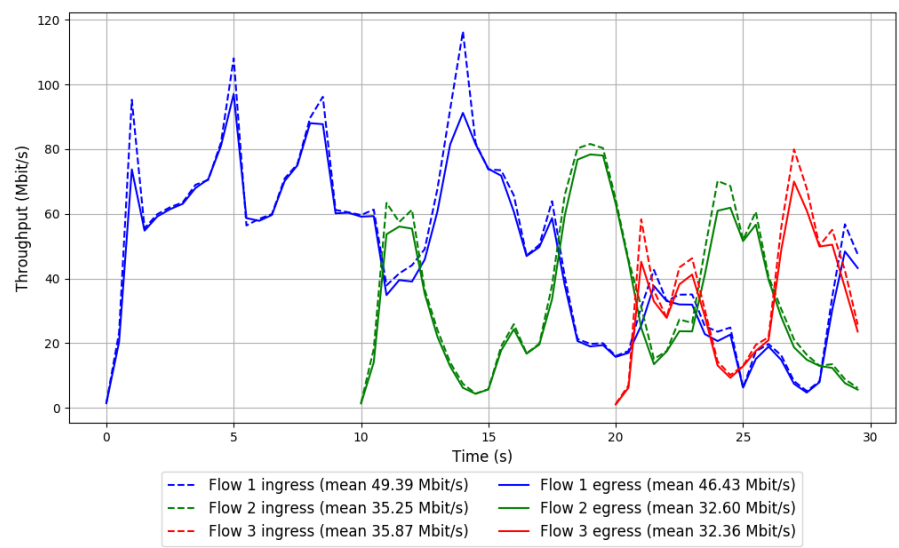


Run 9: Statistics of Vivace-loss

Start at: 2018-03-21 06:19:51
End at: 2018-03-21 06:20:21
Local clock offset: -2.146 ms
Remote clock offset: -1.215 ms

Below is generated by plot.py at 2018-03-21 07:52:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.72 Mbit/s
95th percentile per-packet one-way delay: 44.177 ms
Loss rate: 6.93%
-- Flow 1:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 41.534 ms
Loss rate: 5.93%
-- Flow 2:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 46.721 ms
Loss rate: 7.48%
-- Flow 3:
Average throughput: 32.36 Mbit/s
95th percentile per-packet one-way delay: 43.167 ms
Loss rate: 10.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-21 06:41:07

End at: 2018-03-21 06:41:37

Local clock offset: -3.441 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-03-21 07:52:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.81 Mbit/s

95th percentile per-packet one-way delay: 47.191 ms

Loss rate: 17.22%

-- Flow 1:

Average throughput: 65.61 Mbit/s

95th percentile per-packet one-way delay: 46.776 ms

Loss rate: 15.94%

-- Flow 2:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 47.854 ms

Loss rate: 20.69%

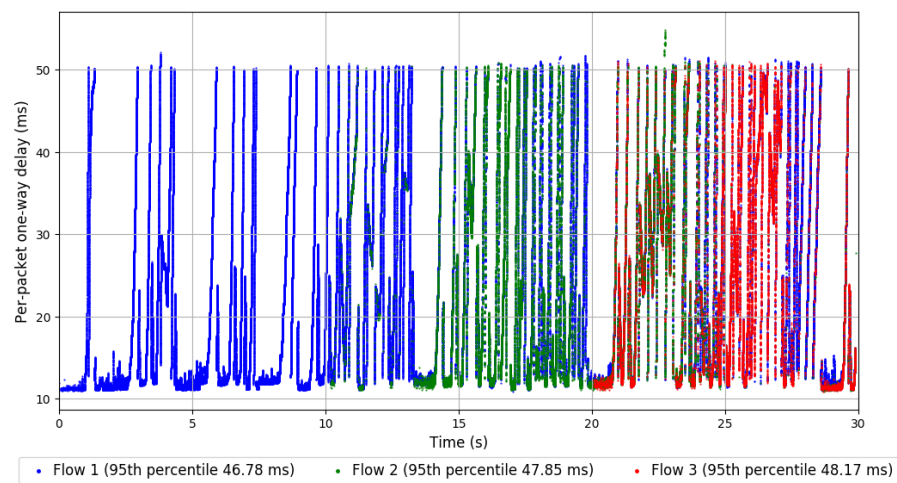
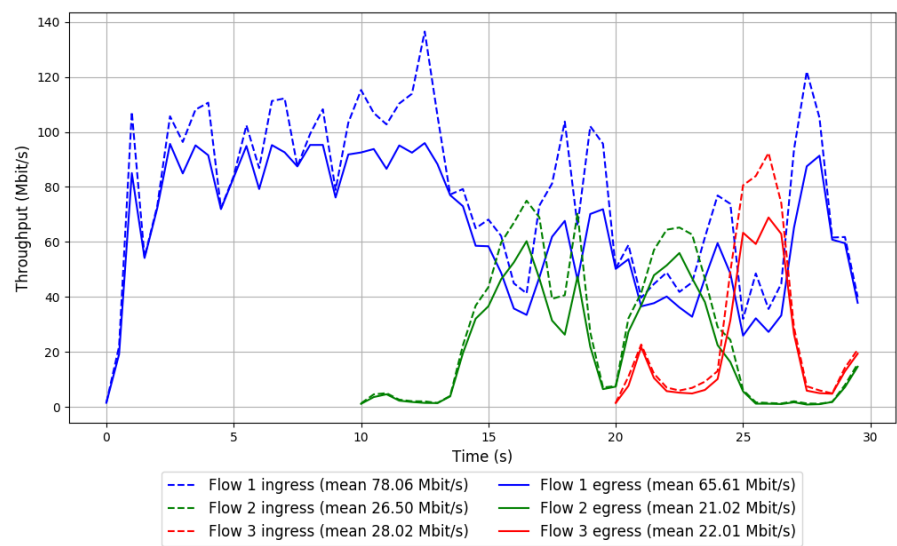
-- Flow 3:

Average throughput: 22.01 Mbit/s

95th percentile per-packet one-way delay: 48.168 ms

Loss rate: 21.41%

Run 10: Report of Vivace-loss — Data Link

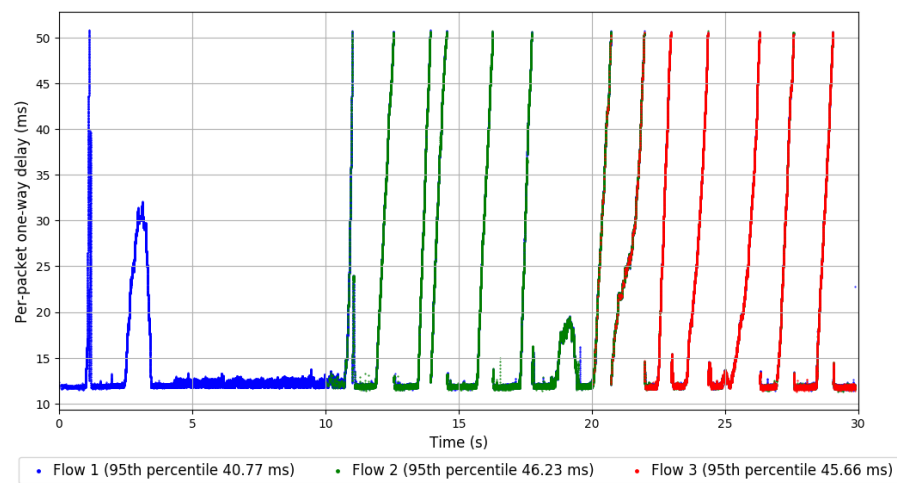
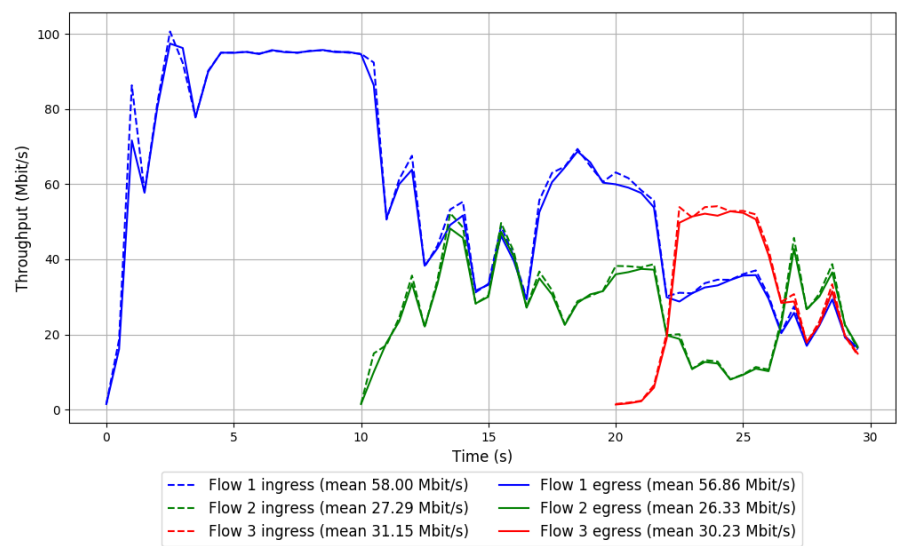


Run 1: Statistics of Vivace-LTE

Start at: 2018-03-21 03:24:27
End at: 2018-03-21 03:24:57
Local clock offset: -13.009 ms
Remote clock offset: -5.671 ms

Below is generated by plot.py at 2018-03-21 07:52:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 43.460 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 56.86 Mbit/s
95th percentile per-packet one-way delay: 40.767 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 26.33 Mbit/s
95th percentile per-packet one-way delay: 46.233 ms
Loss rate: 3.51%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 45.656 ms
Loss rate: 2.95%

Run 1: Report of Vivace-LTE — Data Link

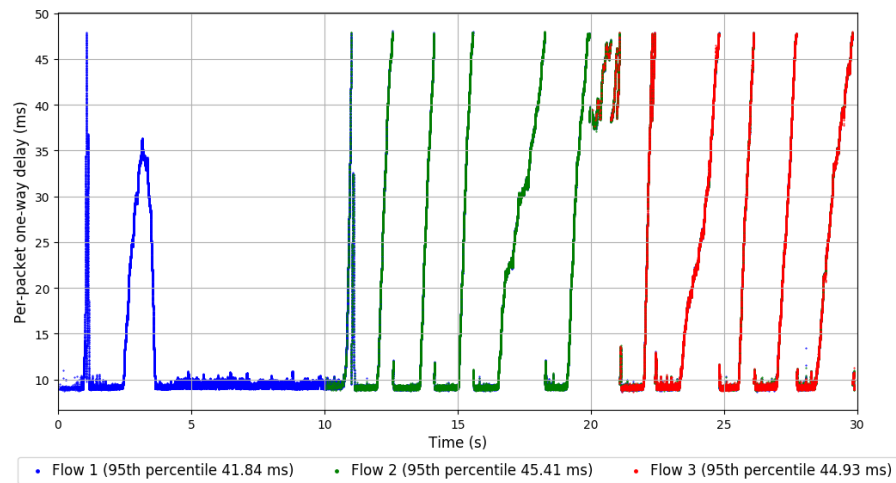
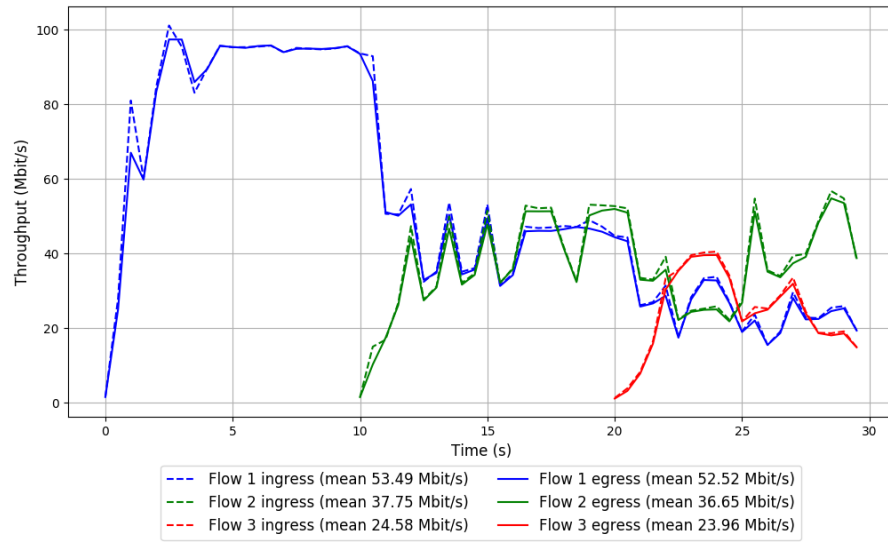


Run 2: Statistics of Vivace-LTE

Start at: 2018-03-21 03:45:31
End at: 2018-03-21 03:46:01
Local clock offset: -11.693 ms
Remote clock offset: -2.961 ms

Below is generated by plot.py at 2018-03-21 07:52:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 44.088 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 52.52 Mbit/s
95th percentile per-packet one-way delay: 41.837 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 45.410 ms
Loss rate: 2.92%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 44.932 ms
Loss rate: 2.82%

Run 2: Report of Vivace-LTE — Data Link

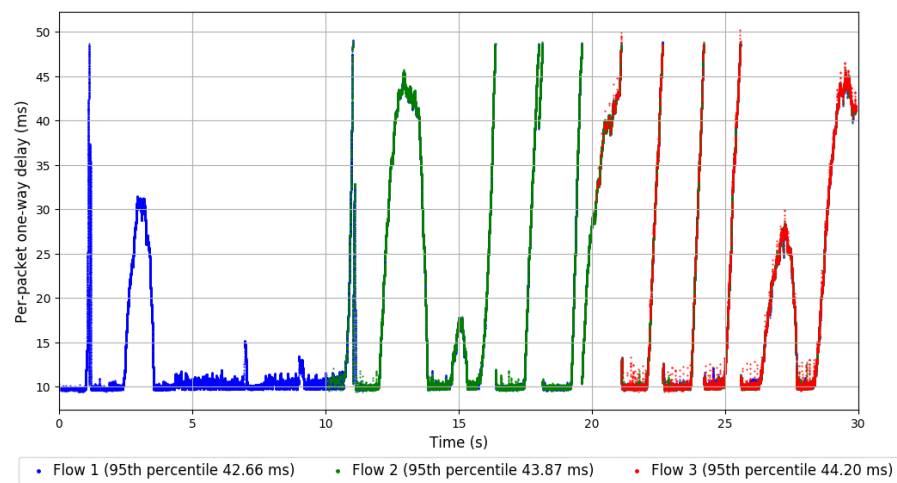
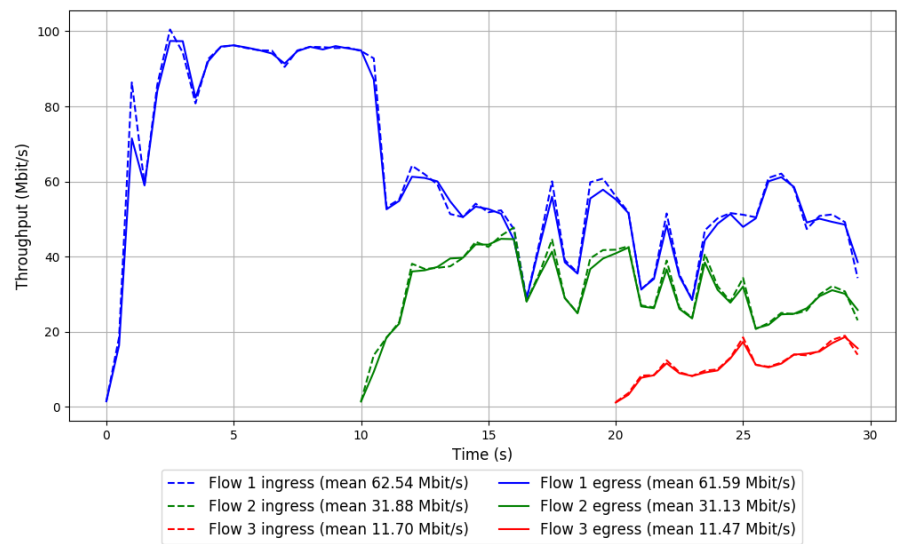


Run 3: Statistics of Vivace-LTE

Start at: 2018-03-21 04:07:09
End at: 2018-03-21 04:07:39
Local clock offset: -2.124 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-03-21 07:52:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 43.167 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 42.659 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 43.867 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 44.198 ms
Loss rate: 1.85%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-21 04:28:56

End at: 2018-03-21 04:29:26

Local clock offset: 1.712 ms

Remote clock offset: 1.628 ms

Below is generated by plot.py at 2018-03-21 07:52:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 43.437 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 53.98 Mbit/s

95th percentile per-packet one-way delay: 42.032 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 44.033 ms

Loss rate: 1.65%

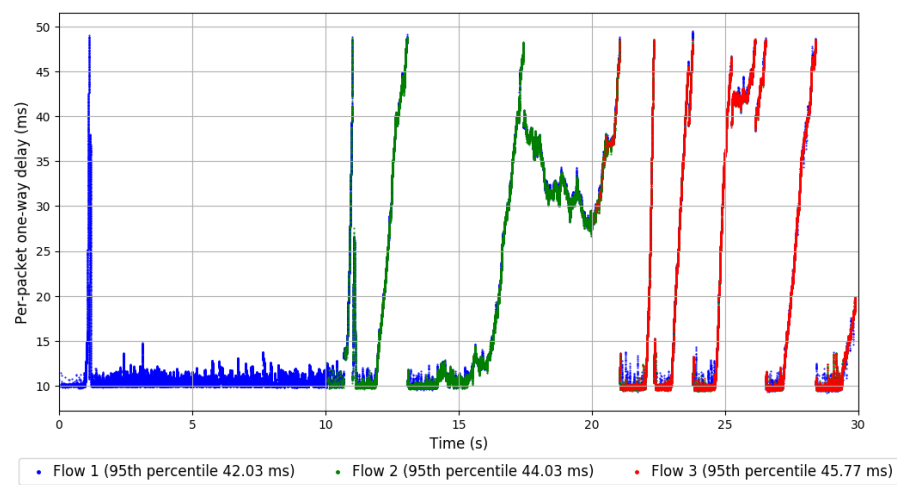
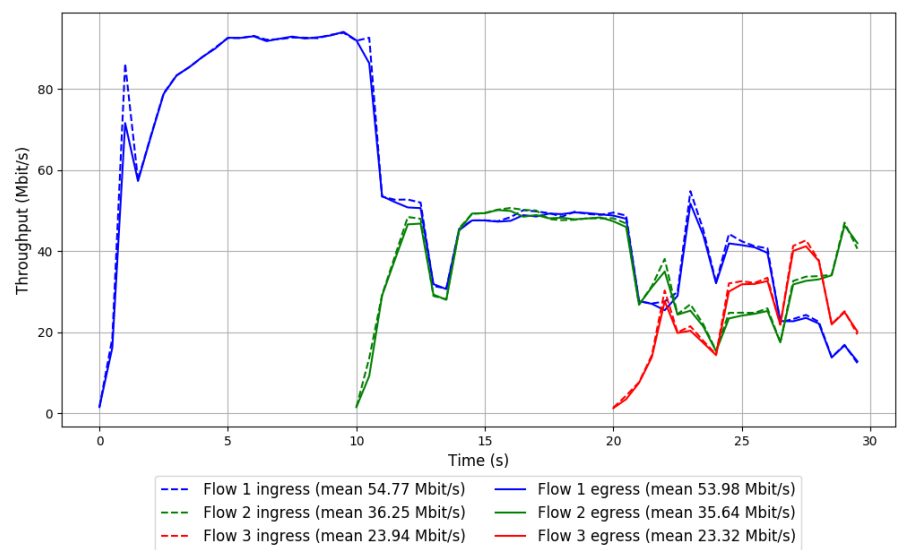
-- Flow 3:

Average throughput: 23.32 Mbit/s

95th percentile per-packet one-way delay: 45.767 ms

Loss rate: 2.65%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-21 04:50:01

End at: 2018-03-21 04:50:31

Local clock offset: -3.577 ms

Remote clock offset: 2.123 ms

Below is generated by plot.py at 2018-03-21 07:53:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 37.610 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 34.913 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 25.67 Mbit/s

95th percentile per-packet one-way delay: 40.772 ms

Loss rate: 1.52%

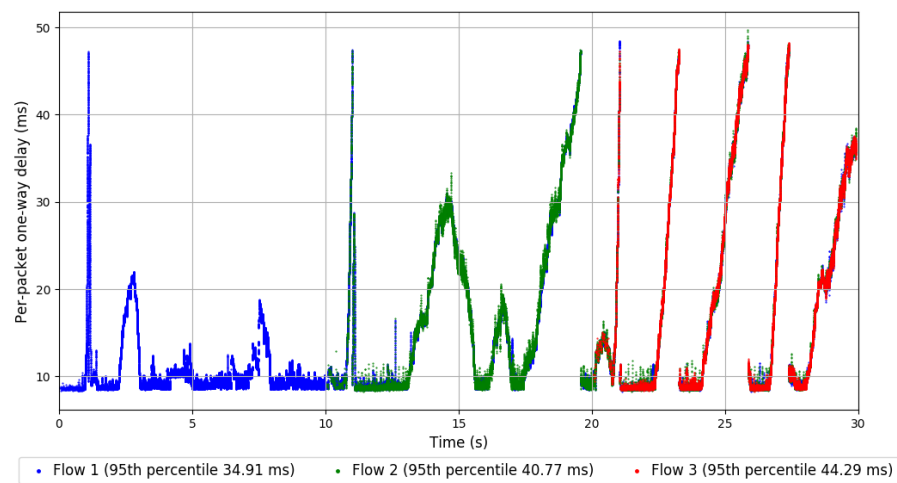
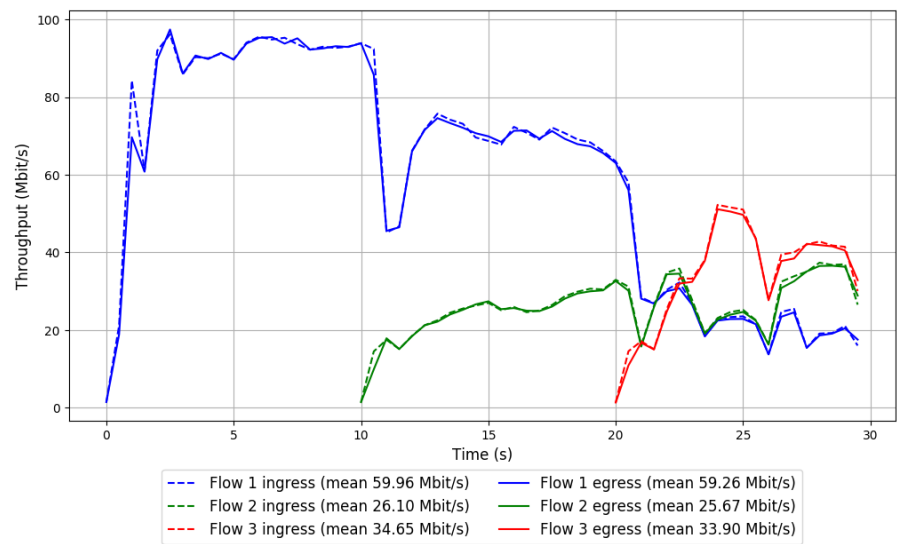
-- Flow 3:

Average throughput: 33.90 Mbit/s

95th percentile per-packet one-way delay: 44.290 ms

Loss rate: 1.90%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-21 05:11:03

End at: 2018-03-21 05:11:33

Local clock offset: -3.075 ms

Remote clock offset: 2.877 ms

Below is generated by plot.py at 2018-03-21 07:53:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 44.347 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 41.126 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 39.51 Mbit/s

95th percentile per-packet one-way delay: 45.729 ms

Loss rate: 2.07%

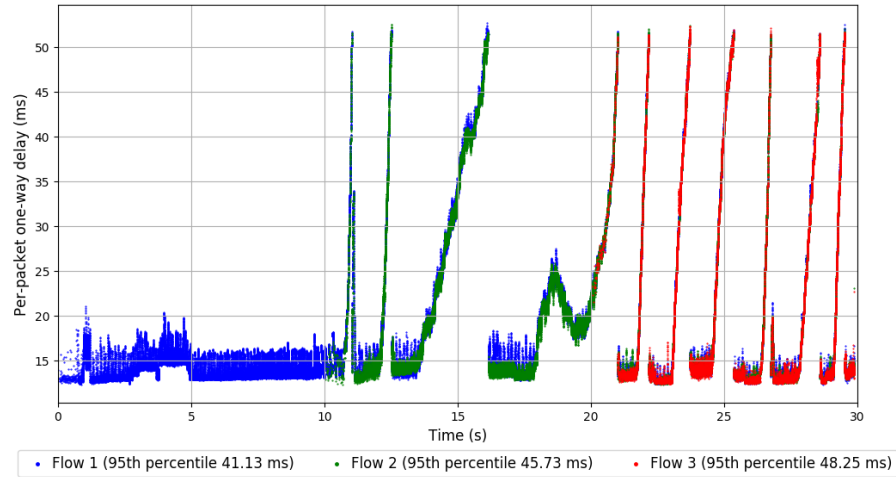
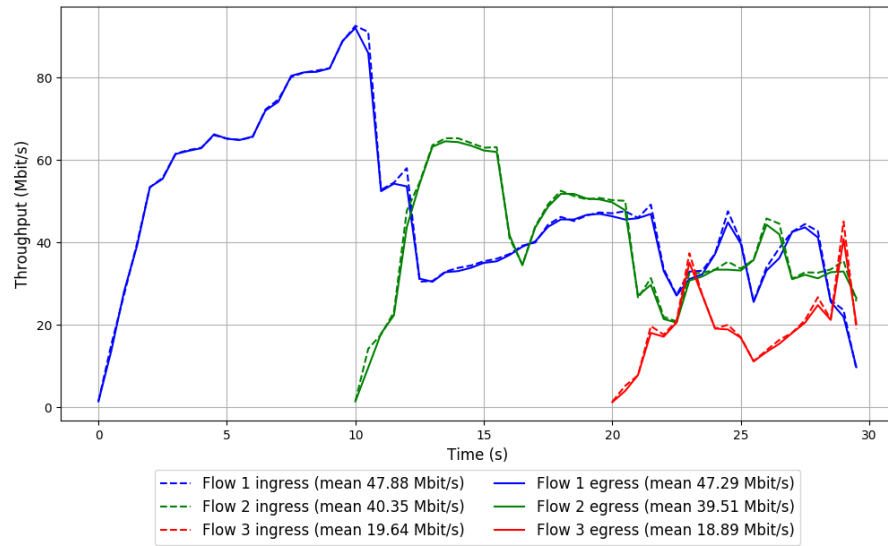
-- Flow 3:

Average throughput: 18.89 Mbit/s

95th percentile per-packet one-way delay: 48.251 ms

Loss rate: 3.81%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-21 05:32:17

End at: 2018-03-21 05:32:47

Local clock offset: 0.506 ms

Remote clock offset: 1.26 ms

Below is generated by plot.py at 2018-03-21 07:53:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 44.995 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 43.240 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 46.666 ms

Loss rate: 2.41%

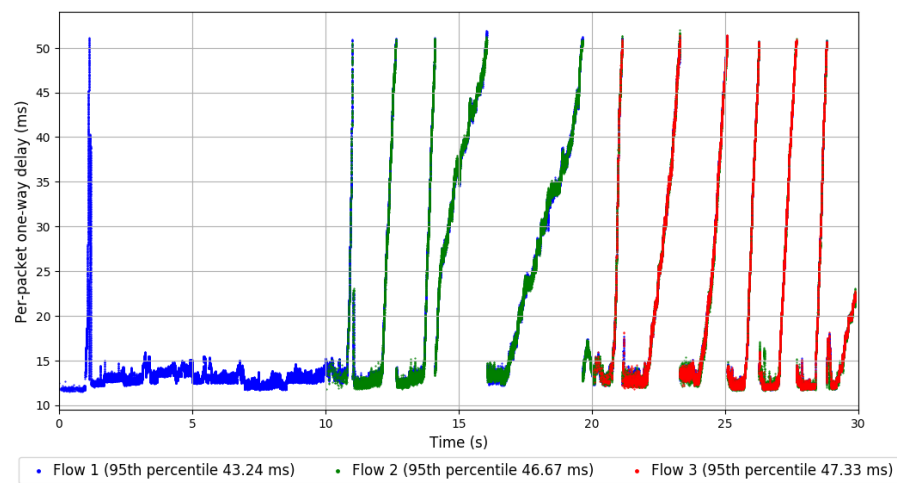
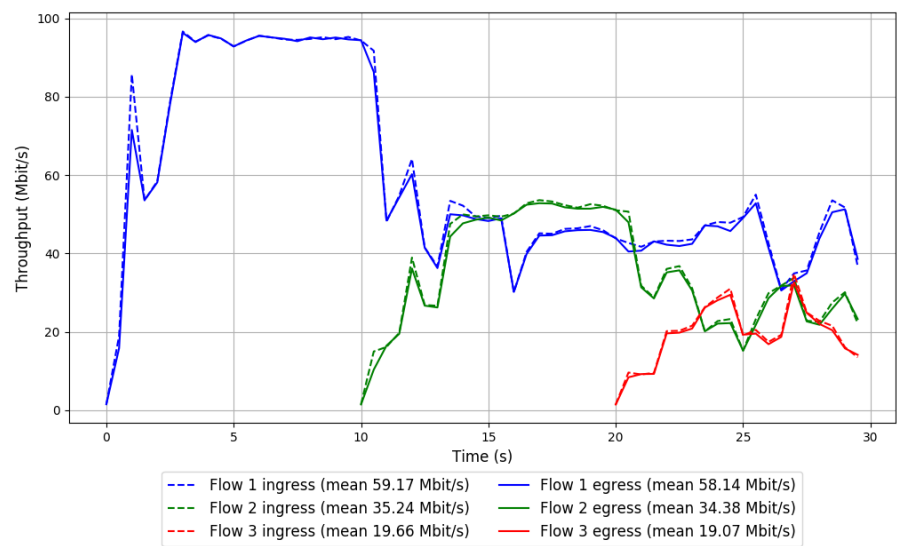
-- Flow 3:

Average throughput: 19.07 Mbit/s

95th percentile per-packet one-way delay: 47.325 ms

Loss rate: 2.90%

Run 7: Report of Vivace-LTE — Data Link

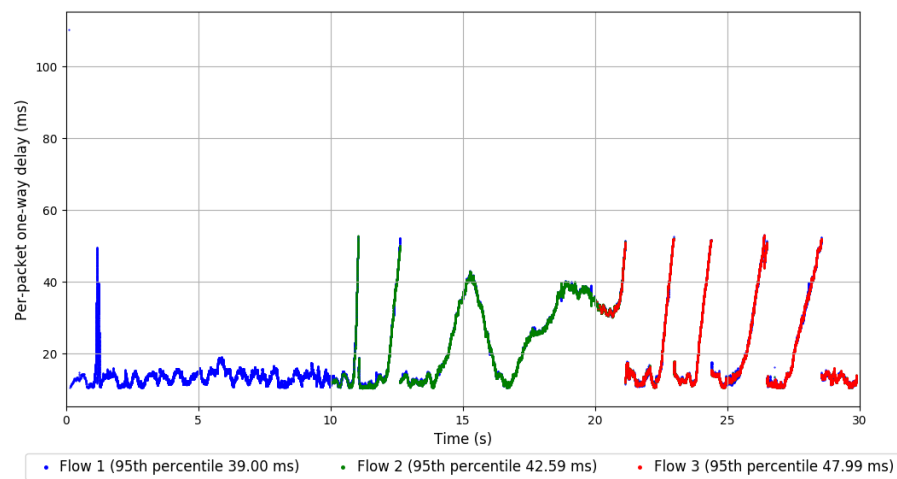
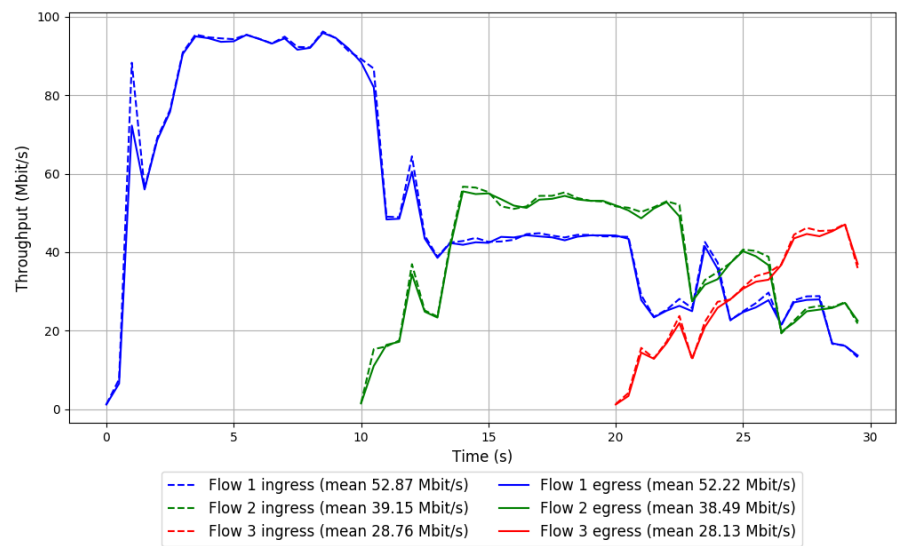


Run 8: Statistics of Vivace-LTE

Start at: 2018-03-21 05:53:31
End at: 2018-03-21 05:54:01
Local clock offset: -4.858 ms
Remote clock offset: -0.932 ms

Below is generated by plot.py at 2018-03-21 07:53:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.17 Mbit/s
95th percentile per-packet one-way delay: 41.100 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 52.22 Mbit/s
95th percentile per-packet one-way delay: 39.004 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 42.594 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 47.994 ms
Loss rate: 2.42%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-21 06:15:02

End at: 2018-03-21 06:15:32

Local clock offset: -3.425 ms

Remote clock offset: -2.76 ms

Below is generated by plot.py at 2018-03-21 07:53:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.96 Mbit/s

95th percentile per-packet one-way delay: 43.160 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 40.325 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 45.298 ms

Loss rate: 3.33%

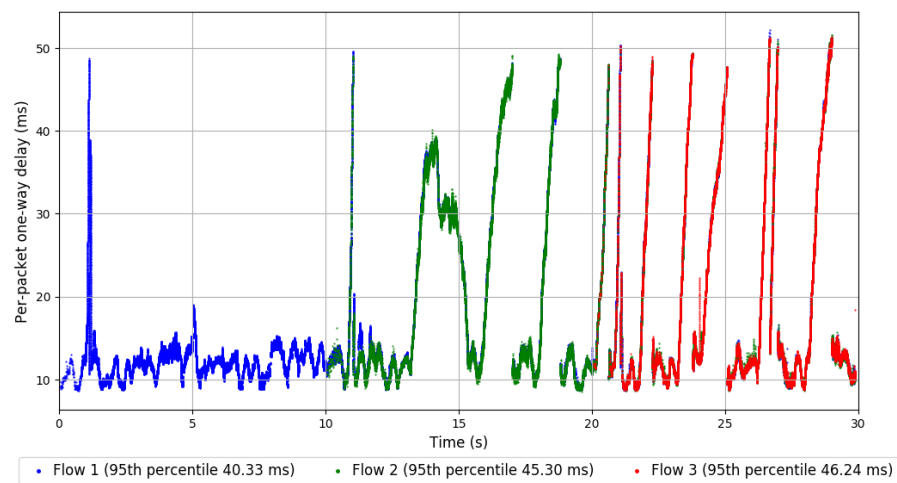
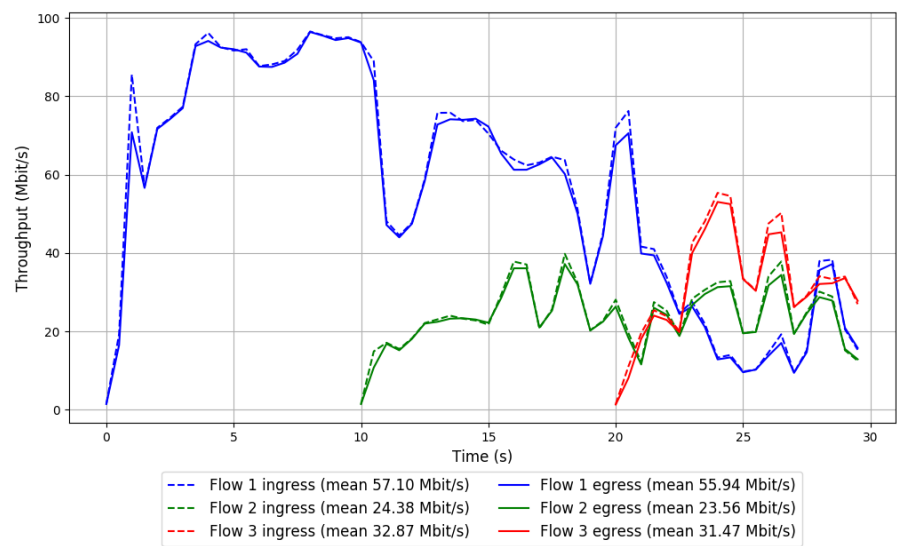
-- Flow 3:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 46.237 ms

Loss rate: 4.19%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-21 06:36:12

End at: 2018-03-21 06:36:42

Local clock offset: -3.793 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-03-21 07:53:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 43.268 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 52.03 Mbit/s

95th percentile per-packet one-way delay: 39.910 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 36.53 Mbit/s

95th percentile per-packet one-way delay: 44.580 ms

Loss rate: 2.24%

-- Flow 3:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 45.731 ms

Loss rate: 2.88%

Run 10: Report of Vivace-LTE — Data Link

