

Pantheon Report

Generated at 2018-04-04 00:48:26 (UTC).

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

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).

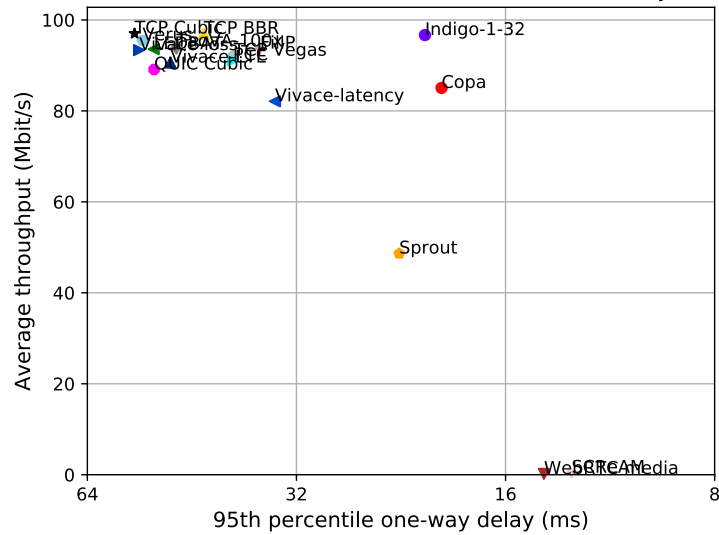
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

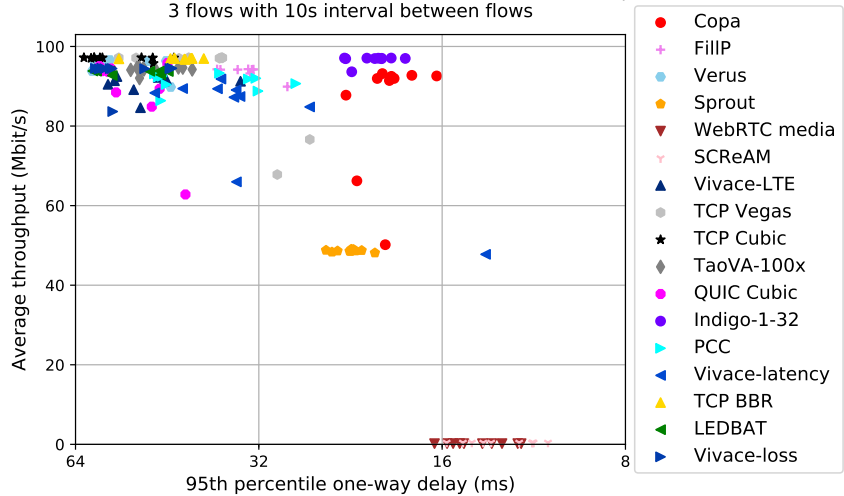
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
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 @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



test from India Ethernet to AWS India 1 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	60.01	40.43	30.19	40.63	43.47	53.40	0.10	0.18	0.47
TCP Cubic	10	60.59	40.54	29.69	47.80	50.23	52.64	0.15	0.34	0.93
LEDBAT	9	58.35	37.33	31.40	46.38	51.46	46.62	0.11	0.28	0.67
PCC	10	60.54	36.92	18.43	38.03	33.58	38.62	0.05	0.13	0.28
QUIC Cubic	10	49.89	42.47	33.44	46.95	49.03	47.19	0.64	0.23	0.60
SCReAM	10	0.21	0.21	0.22	12.86	12.84	12.82	0.13	0.00	0.21
WebRTC media	10	0.07	0.06	0.05	13.98	14.11	14.16	0.03	0.01	0.04
Sprout	10	24.51	24.36	24.08	22.39	22.32	23.64	0.10	0.13	0.36
TaoVA-100x	10	57.15	40.07	31.25	43.68	43.00	44.94	0.09	0.19	0.50
TCP Vegas	10	55.99	34.94	38.93	33.11	34.12	32.92	0.08	0.07	0.28
Verus	10	56.35	42.14	36.76	51.63	49.78	43.81	0.41	0.66	2.10
Copa	10	49.63	38.20	30.21	18.65	20.17	21.99	0.41	0.13	0.26
FillP	10	50.01	43.28	45.00	34.97	37.82	36.67	0.04	0.15	0.27
Indigo-1-32	10	58.79	40.70	33.25	19.63	20.32	21.20	0.05	0.12	0.32
Vivace-latency	10	54.86	32.88	16.44	30.92	32.01	26.30	0.08	0.18	0.39
Vivace-loss	10	56.60	40.16	30.69	53.78	45.81	48.04	0.11	0.26	0.73
Vivace-LTE	10	57.27	38.55	23.56	42.64	45.77	50.33	0.08	0.16	0.55

Run 1: Statistics of TCP BBR

Start at: 2018-04-03 17:09:43

End at: 2018-04-03 17:10:13

Local clock offset: 3.588 ms

Remote clock offset: 5.955 ms

Below is generated by plot.py at 2018-04-04 00:20:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 41.249 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 64.10 Mbit/s

95th percentile per-packet one-way delay: 38.496 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 42.286 ms

Loss rate: 0.15%

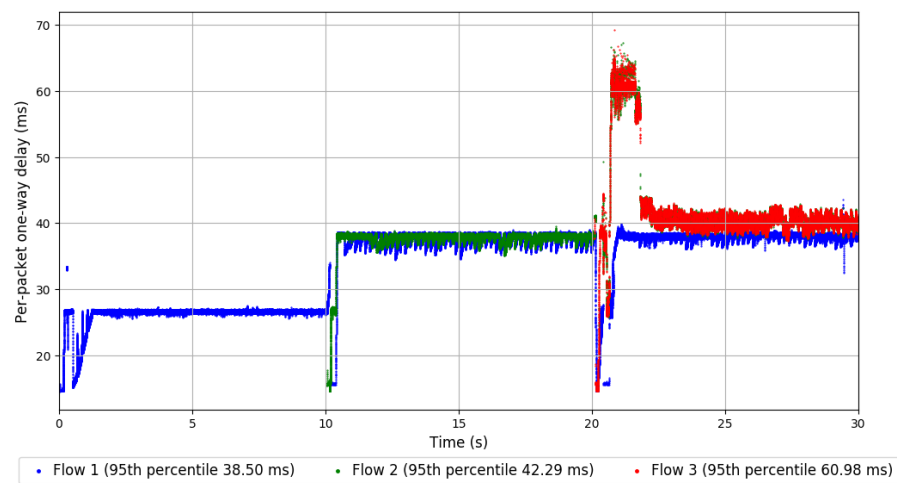
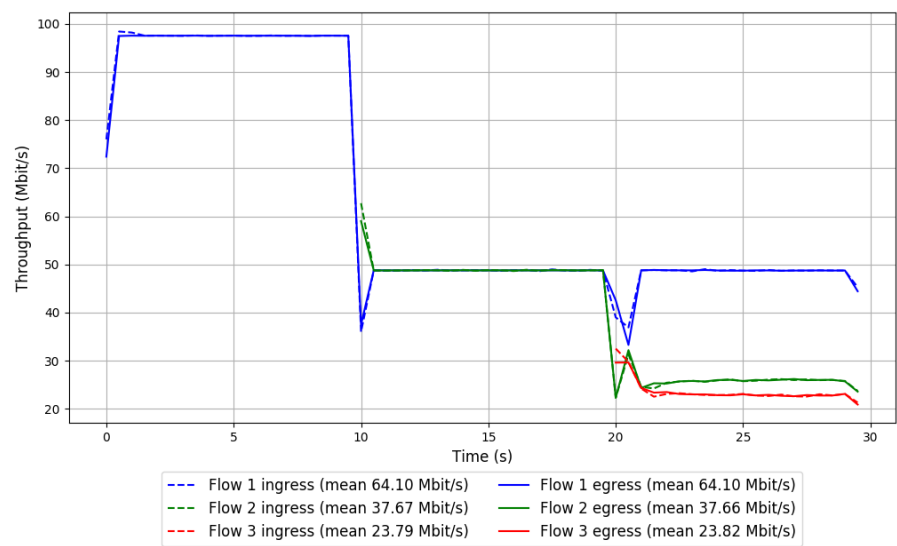
-- Flow 3:

Average throughput: 23.82 Mbit/s

95th percentile per-packet one-way delay: 60.978 ms

Loss rate: 0.48%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-03 17:31:08

End at: 2018-04-03 17:31:38

Local clock offset: 2.394 ms

Remote clock offset: 2.594 ms

Below is generated by plot.py at 2018-04-04 00:20:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 41.440 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 58.71 Mbit/s

95th percentile per-packet one-way delay: 37.115 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.59 Mbit/s

95th percentile per-packet one-way delay: 42.476 ms

Loss rate: 0.20%

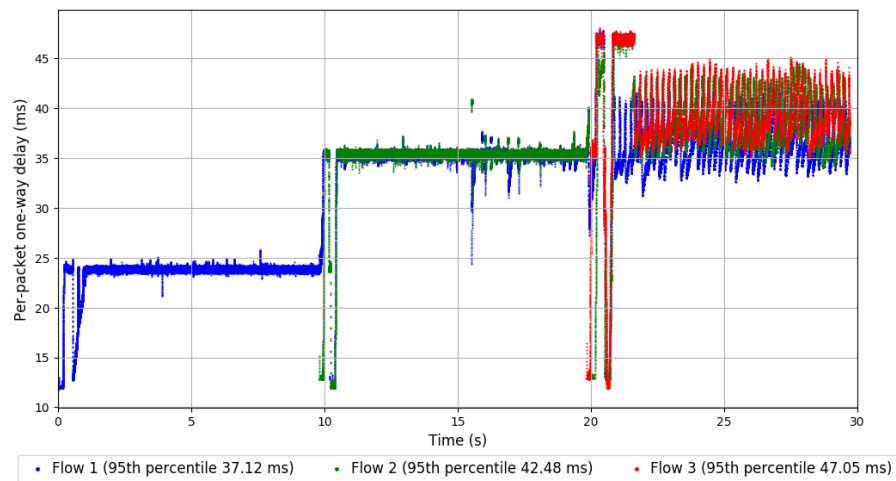
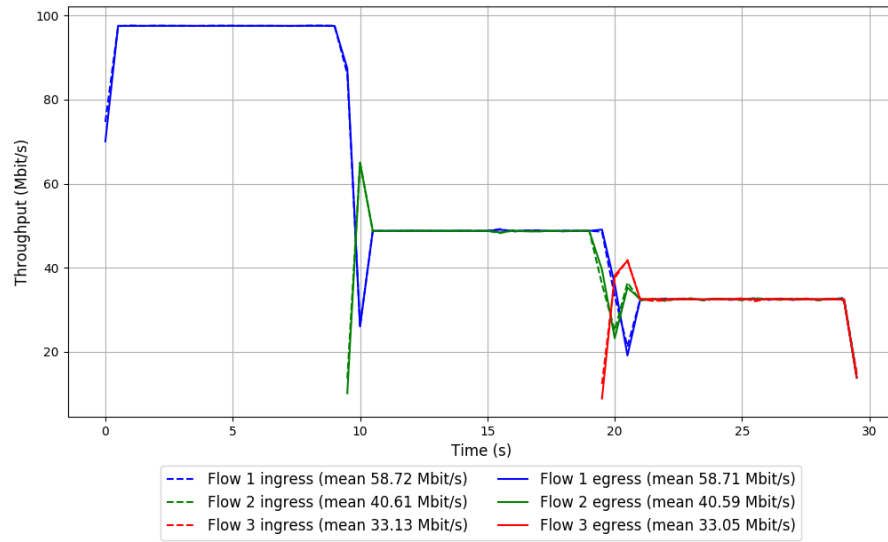
-- Flow 3:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 47.048 ms

Loss rate: 0.51%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-03 17:52:32

End at: 2018-04-03 17:53:02

Local clock offset: 1.189 ms

Remote clock offset: 1.213 ms

Below is generated by plot.py at 2018-04-04 00:20:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.96 Mbit/s

95th percentile per-packet one-way delay: 44.695 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 58.91 Mbit/s

95th percentile per-packet one-way delay: 44.503 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 48.50 Mbit/s

95th percentile per-packet one-way delay: 34.649 ms

Loss rate: 0.25%

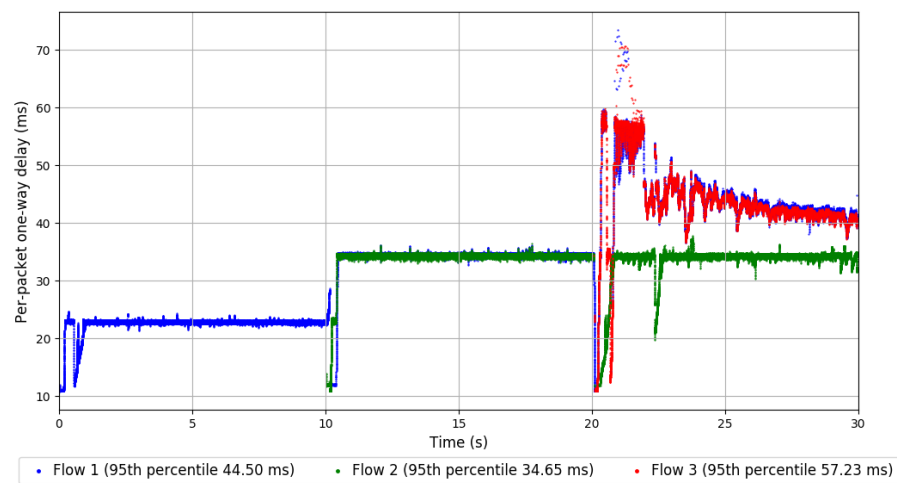
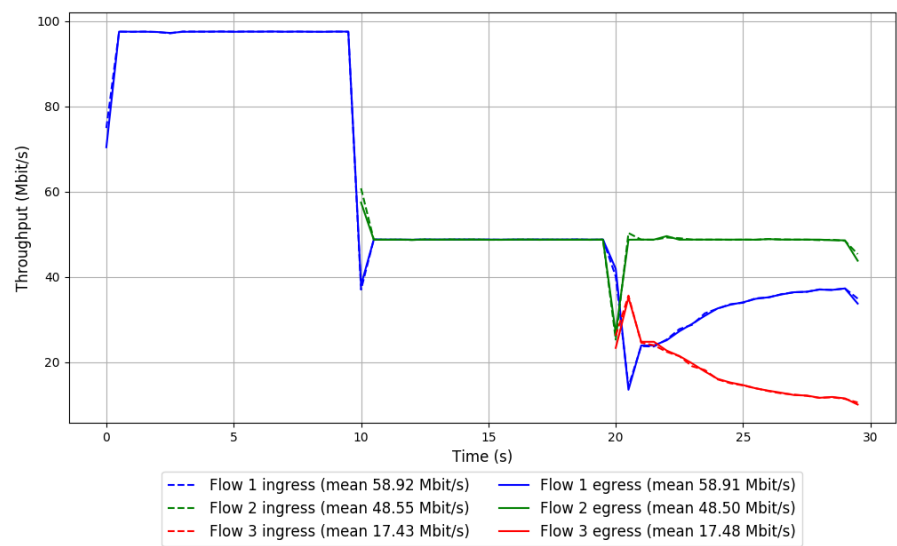
-- Flow 3:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 57.233 ms

Loss rate: 0.37%

Run 3: Report of TCP BBR — Data Link

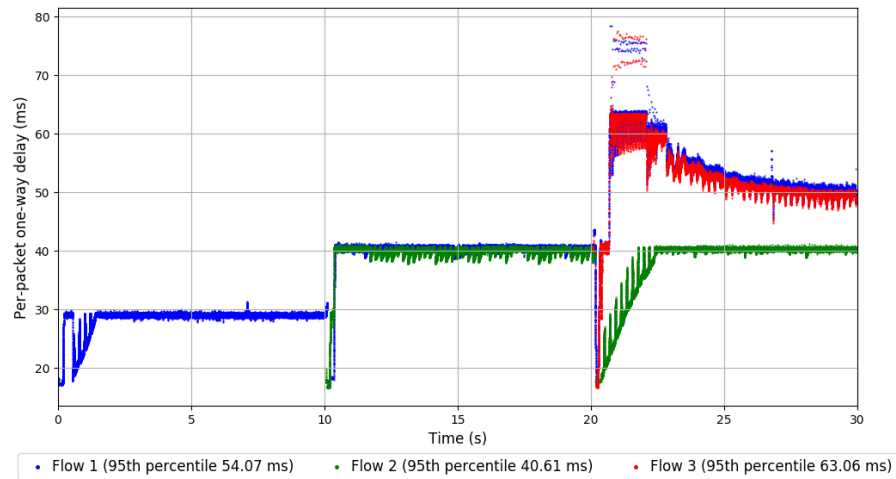
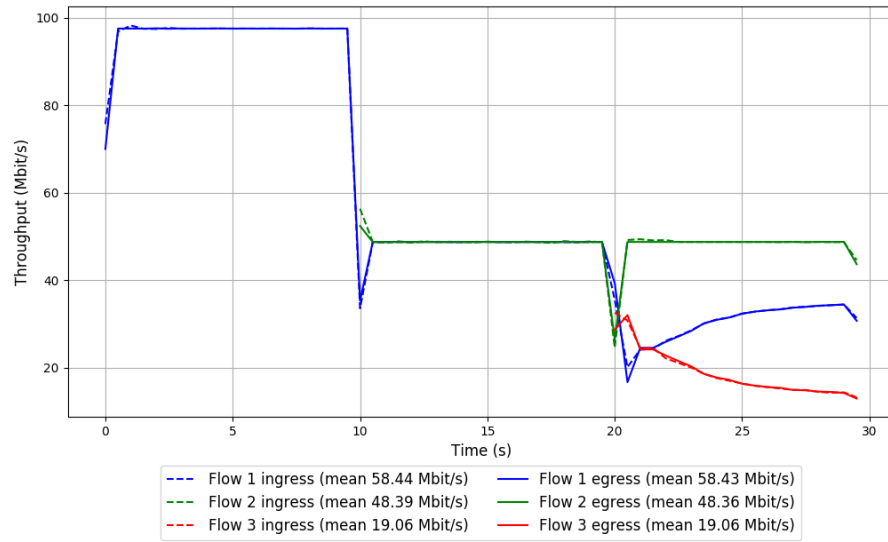


Run 4: Statistics of TCP BBR

Start at: 2018-04-03 18:28:56
End at: 2018-04-03 18:29:26
Local clock offset: 2.591 ms
Remote clock offset: -3.992 ms

Below is generated by plot.py at 2018-04-04 00:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 54.320 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 54.069 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 40.606 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 63.062 ms
Loss rate: 0.45%

Run 4: Report of TCP BBR — Data Link

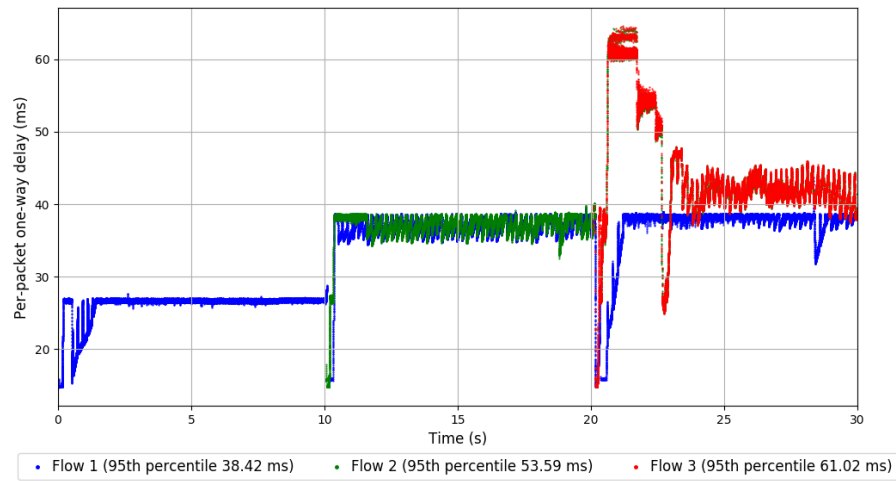
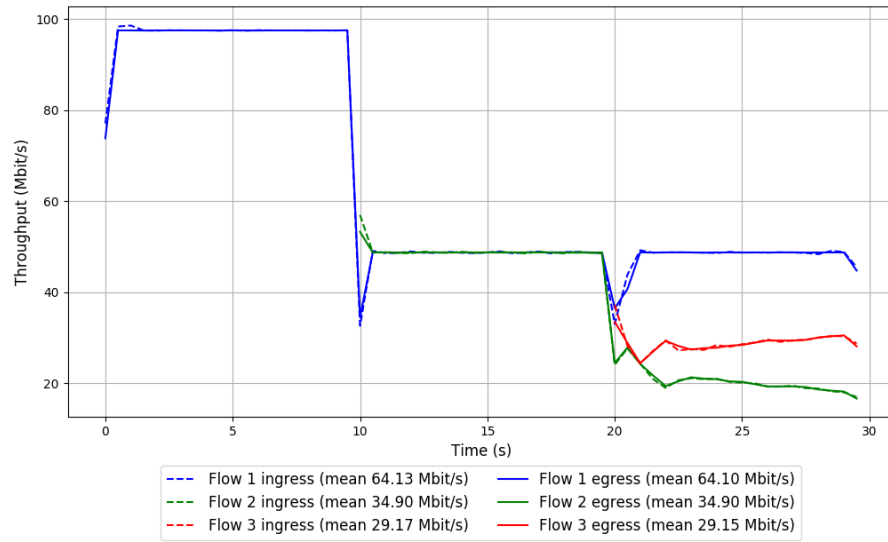


Run 5: Statistics of TCP BBR

Start at: 2018-04-03 18:49:50
End at: 2018-04-03 18:50:20
Local clock offset: 5.647 ms
Remote clock offset: -3.192 ms

Below is generated by plot.py at 2018-04-04 00:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 44.077 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 64.10 Mbit/s
95th percentile per-packet one-way delay: 38.421 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 34.90 Mbit/s
95th percentile per-packet one-way delay: 53.592 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 61.021 ms
Loss rate: 0.51%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-03 19:10:49

End at: 2018-04-03 19:11:19

Local clock offset: 2.214 ms

Remote clock offset: 2.354 ms

Below is generated by plot.py at 2018-04-04 00:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 39.406 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 58.92 Mbit/s

95th percentile per-packet one-way delay: 36.395 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 40.694 ms

Loss rate: 0.19%

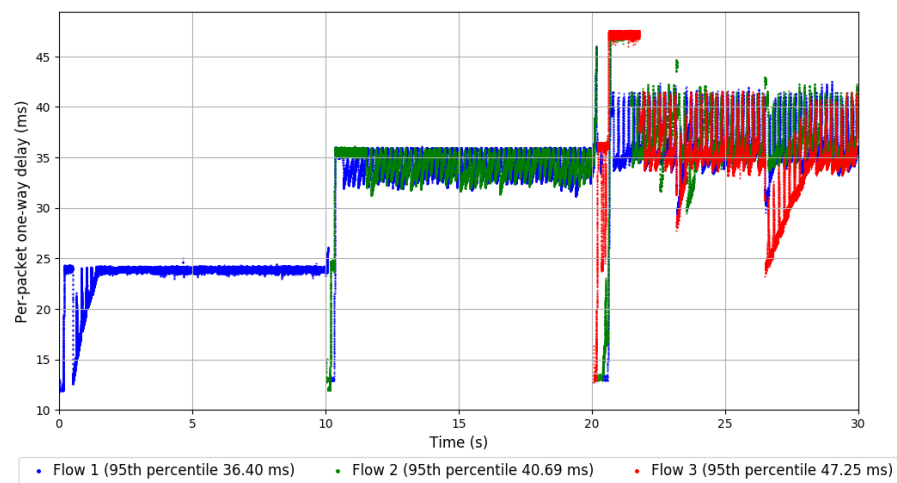
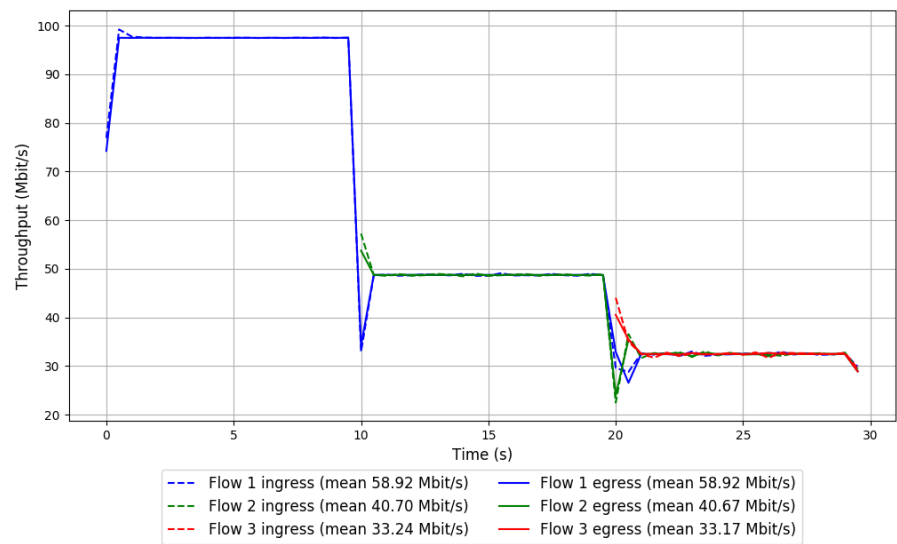
-- Flow 3:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 47.252 ms

Loss rate: 0.46%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-03 19:31:45

End at: 2018-04-03 19:32:15

Local clock offset: 4.647 ms

Remote clock offset: 4.045 ms

Below is generated by plot.py at 2018-04-04 00:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.74 Mbit/s

95th percentile per-packet one-way delay: 42.263 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 55.08 Mbit/s

95th percentile per-packet one-way delay: 41.680 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.40 Mbit/s

95th percentile per-packet one-way delay: 43.653 ms

Loss rate: 0.18%

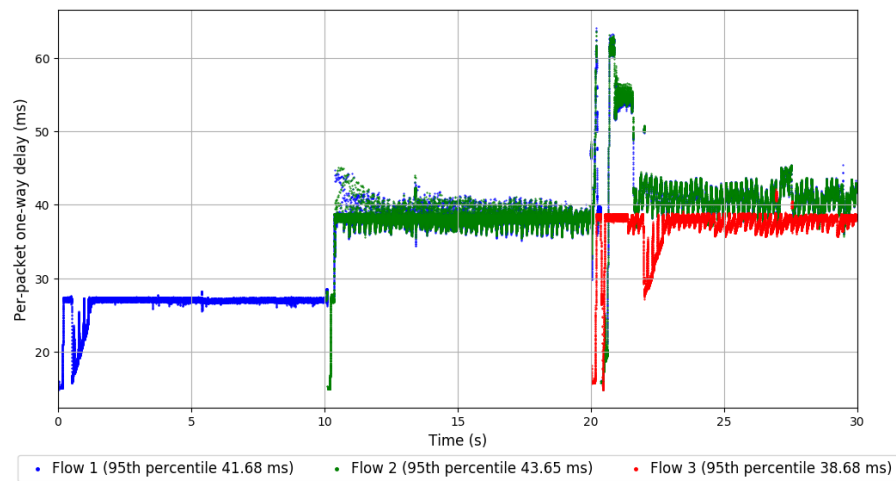
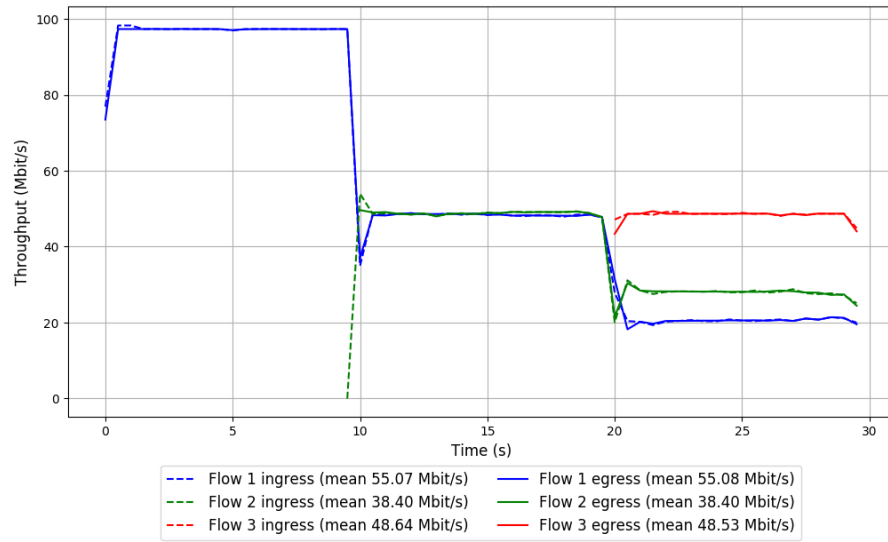
-- Flow 3:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 38.680 ms

Loss rate: 0.47%

Run 7: Report of TCP BBR — Data Link

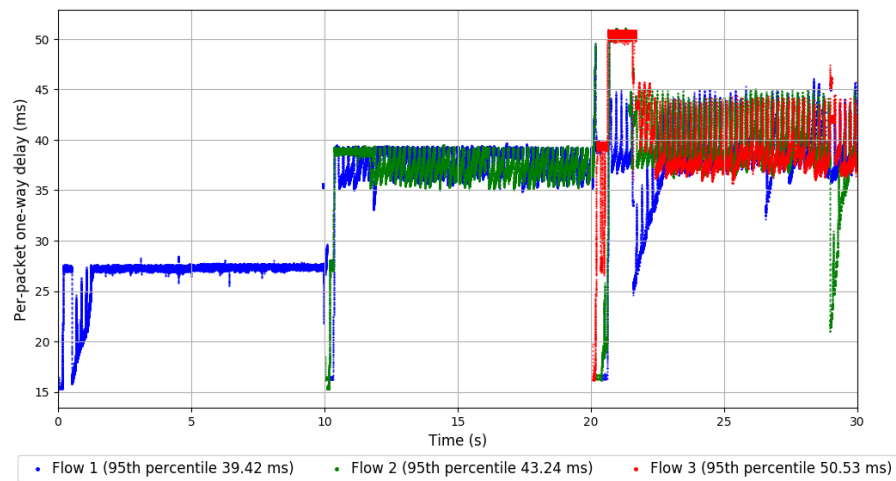
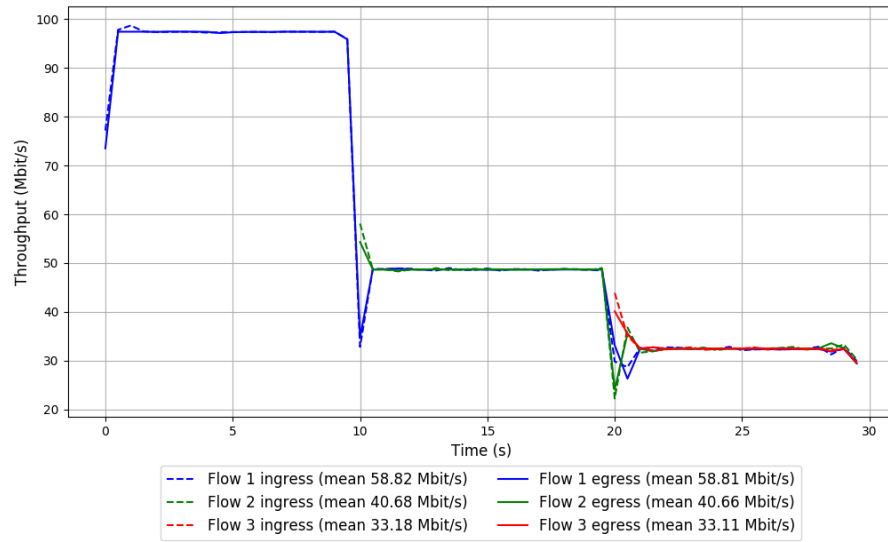


Run 8: Statistics of TCP BBR

Start at: 2018-04-03 19:52:42
End at: 2018-04-03 19:53:12
Local clock offset: 3.687 ms
Remote clock offset: -1.559 ms

Below is generated by plot.py at 2018-04-04 00:20:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.84 Mbit/s
95th percentile per-packet one-way delay: 42.405 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 58.81 Mbit/s
95th percentile per-packet one-way delay: 39.417 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.66 Mbit/s
95th percentile per-packet one-way delay: 43.237 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 50.526 ms
Loss rate: 0.44%

Run 8: Report of TCP BBR — Data Link

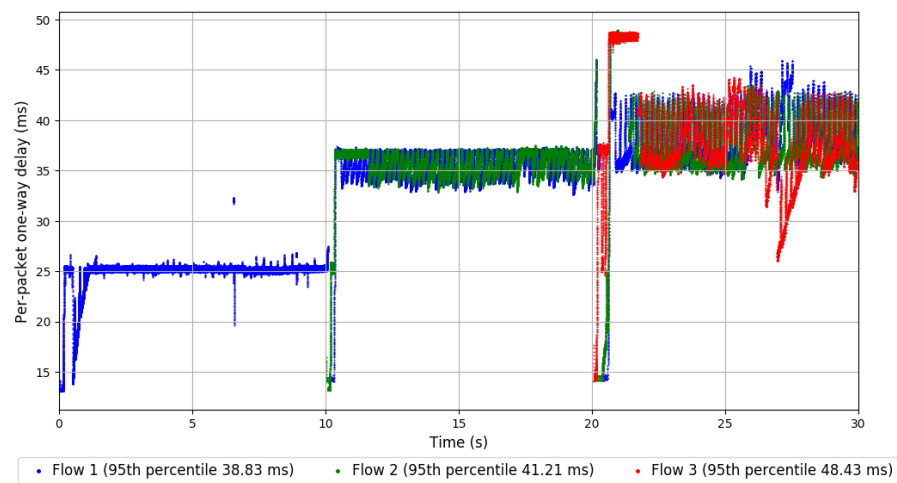
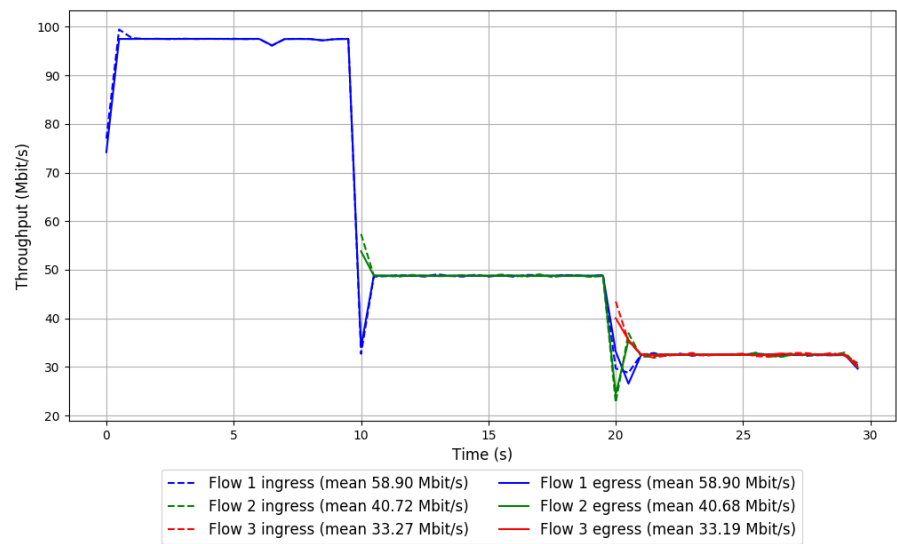


Run 9: Statistics of TCP BBR

Start at: 2018-04-03 20:13:39
End at: 2018-04-03 20:14:09
Local clock offset: -0.33 ms
Remote clock offset: -1.012 ms

Below is generated by plot.py at 2018-04-04 00:21:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 41.175 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 38.832 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 41.208 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 33.19 Mbit/s
95th percentile per-packet one-way delay: 48.431 ms
Loss rate: 0.49%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-03 20:34:34

End at: 2018-04-03 20:35:04

Local clock offset: -0.311 ms

Remote clock offset: 0.687 ms

Below is generated by plot.py at 2018-04-04 00:21:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 44.004 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 37.404 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 52.310 ms

Loss rate: 0.12%

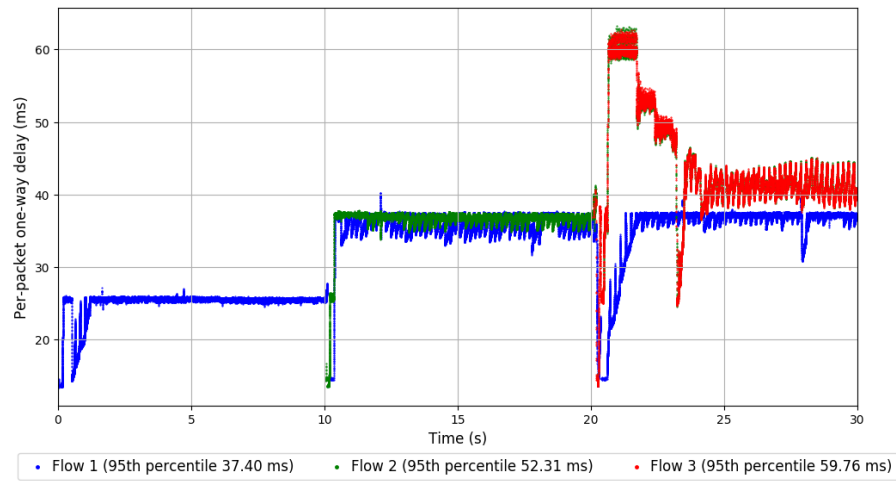
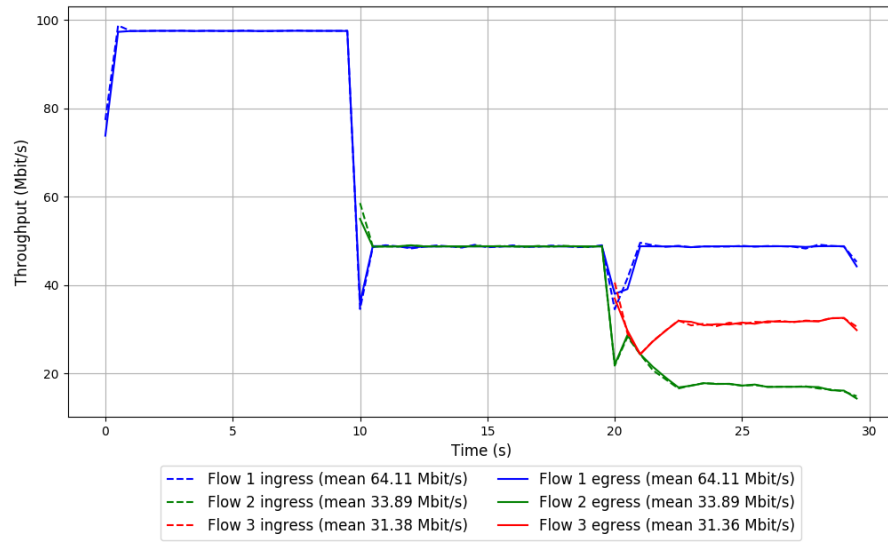
-- Flow 3:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 59.761 ms

Loss rate: 0.55%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-03 17:00:23

End at: 2018-04-03 17:00:53

Local clock offset: 1.558 ms

Remote clock offset: 4.626 ms

Below is generated by plot.py at 2018-04-04 00:21:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 47.682 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 58.05 Mbit/s

95th percentile per-packet one-way delay: 47.626 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 47.732 ms

Loss rate: 0.76%

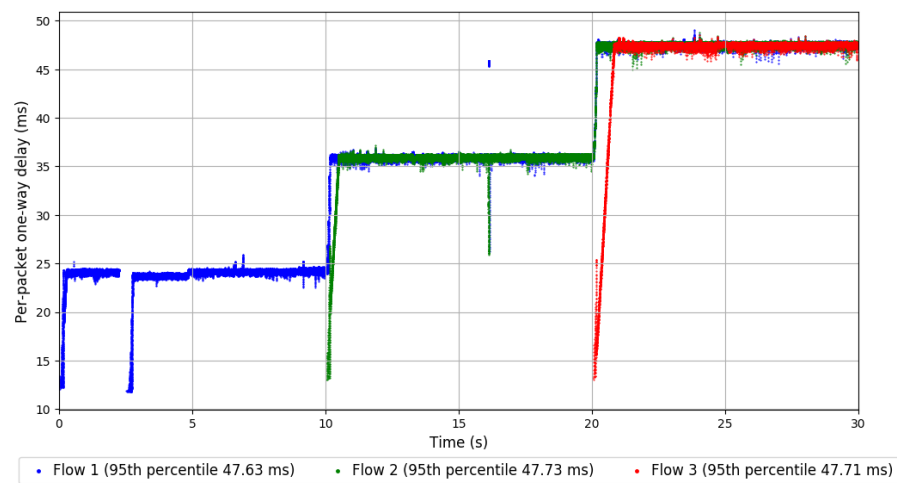
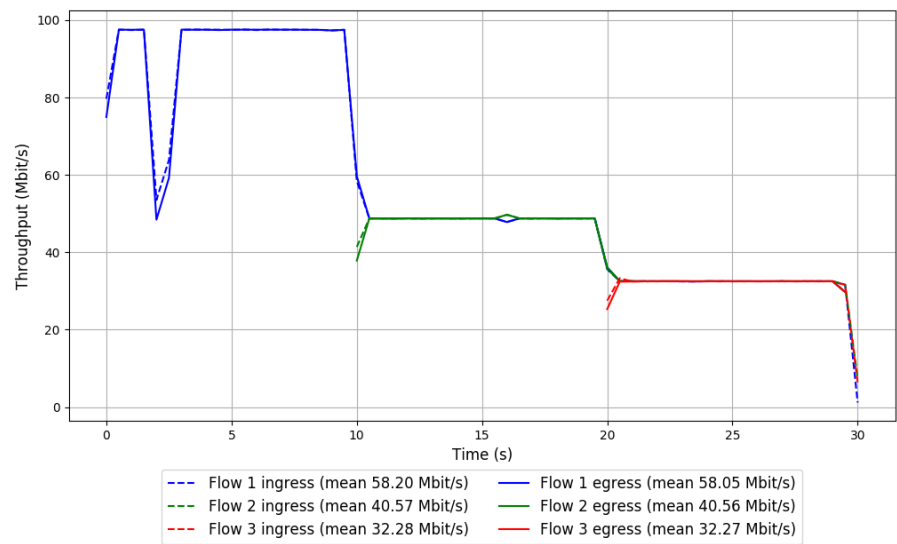
-- Flow 3:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 47.709 ms

Loss rate: 1.72%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-03 17:21:37

End at: 2018-04-03 17:22:07

Local clock offset: 3.335 ms

Remote clock offset: 3.565 ms

Below is generated by plot.py at 2018-04-04 00:21:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 59.675 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 60.86 Mbit/s

95th percentile per-packet one-way delay: 59.340 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 37.131 ms

Loss rate: 0.24%

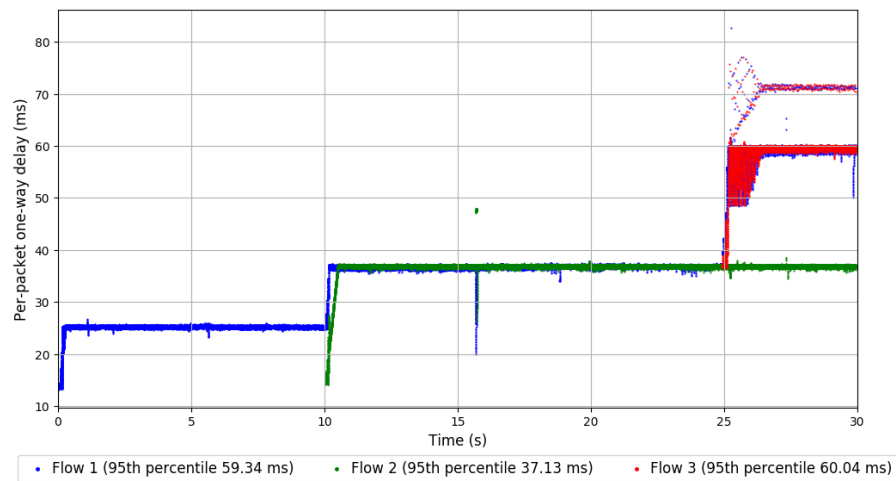
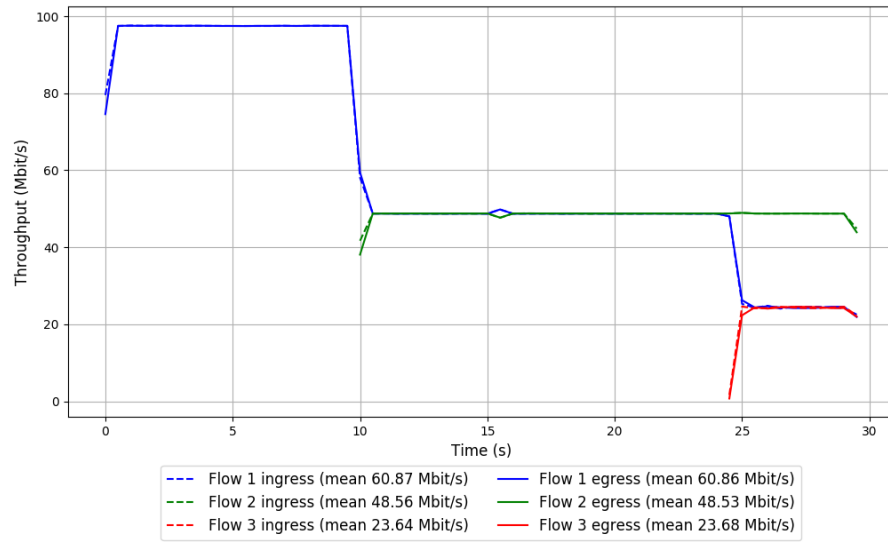
-- Flow 3:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 60.039 ms

Loss rate: 1.40%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-03 17:43:06

End at: 2018-04-03 17:43:36

Local clock offset: -1.037 ms

Remote clock offset: 2.115 ms

Below is generated by plot.py at 2018-04-04 00:21:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 44.122 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 44.041 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 44.177 ms

Loss rate: 0.24%

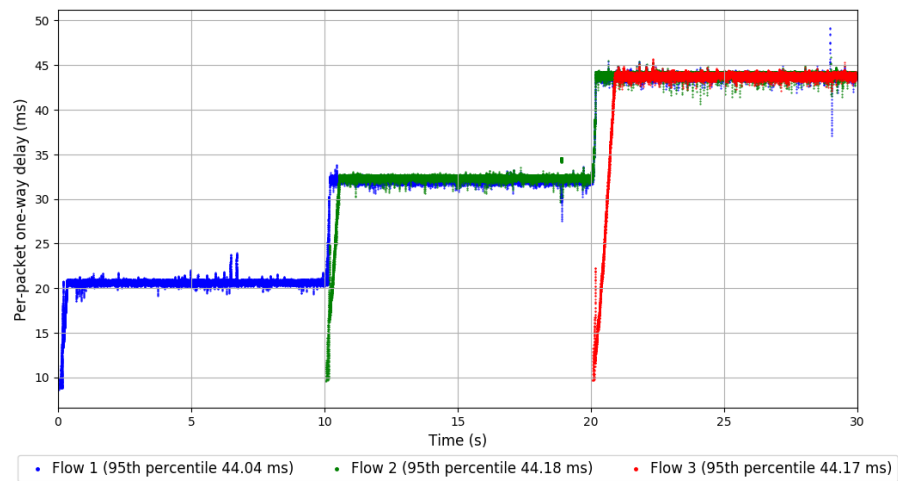
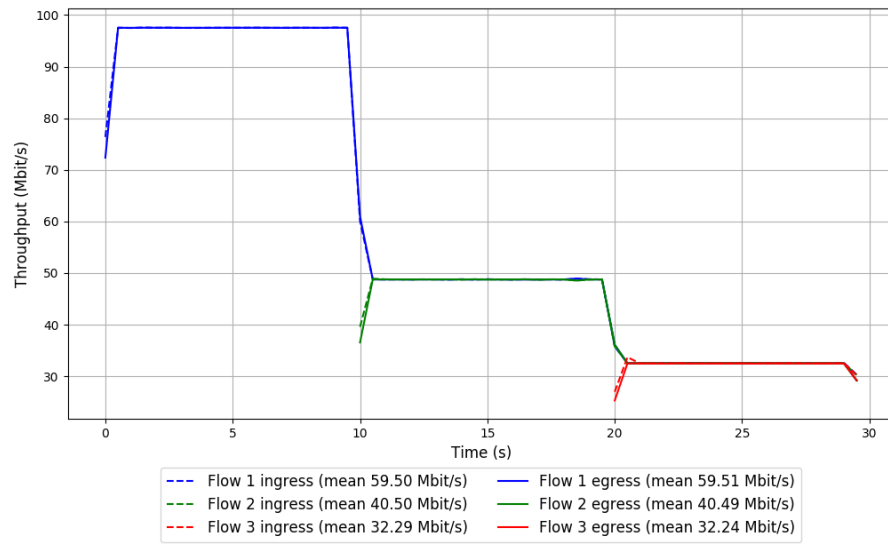
-- Flow 3:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 44.167 ms

Loss rate: 0.60%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-03 18:16:27

End at: 2018-04-03 18:16:57

Local clock offset: 5.246 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2018-04-04 00:21:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 49.867 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 49.825 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 49.850 ms

Loss rate: 0.78%

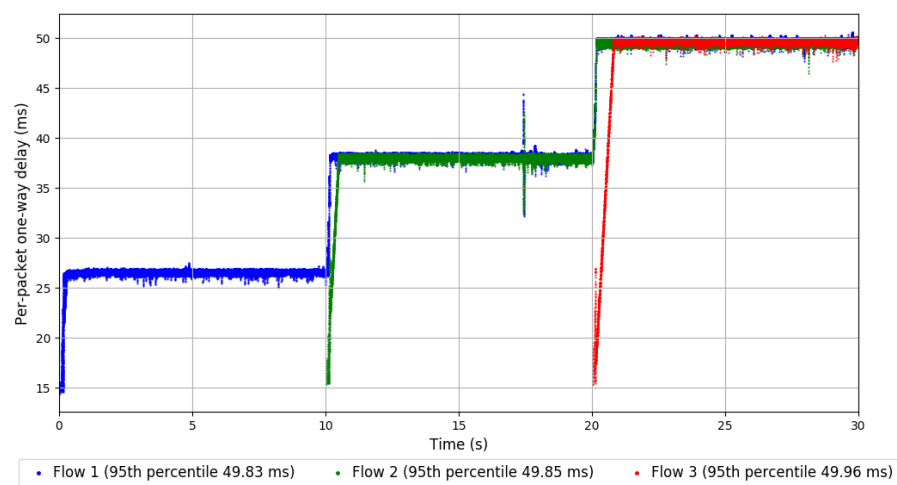
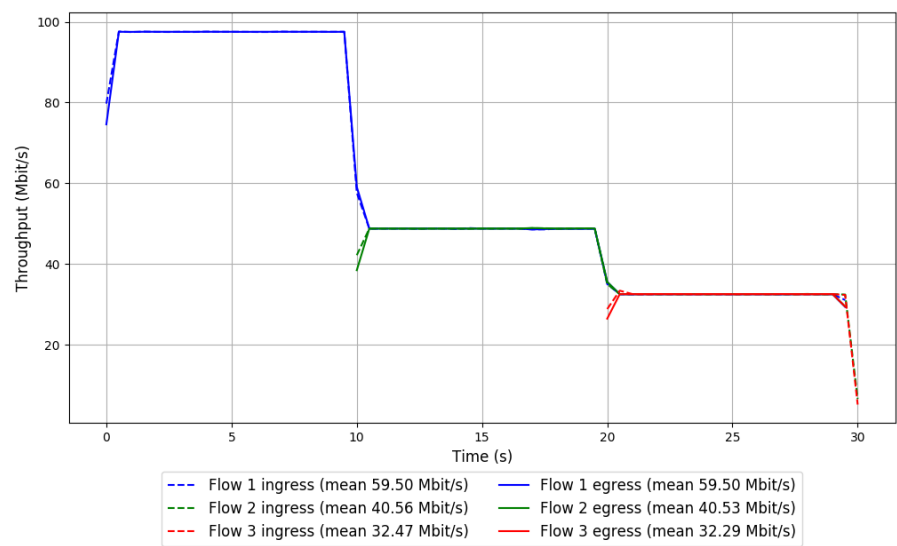
-- Flow 3:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 49.956 ms

Loss rate: 1.73%

Run 4: Report of TCP Cubic — Data Link

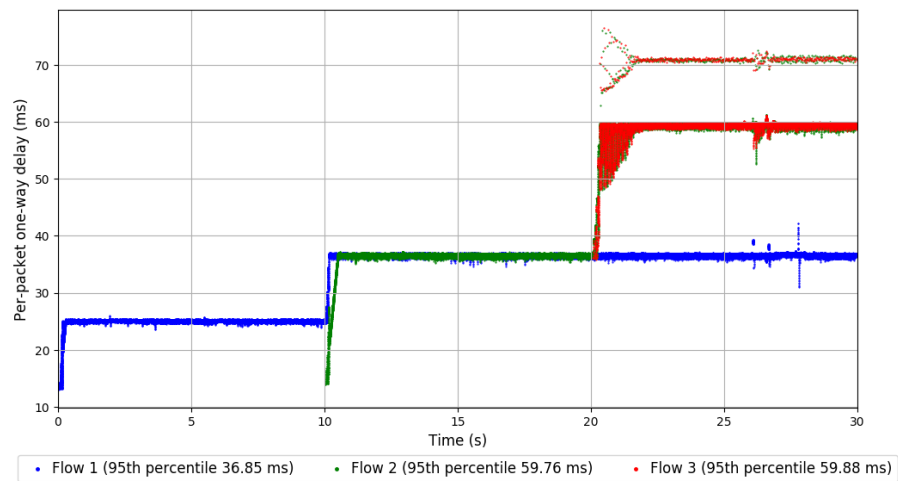
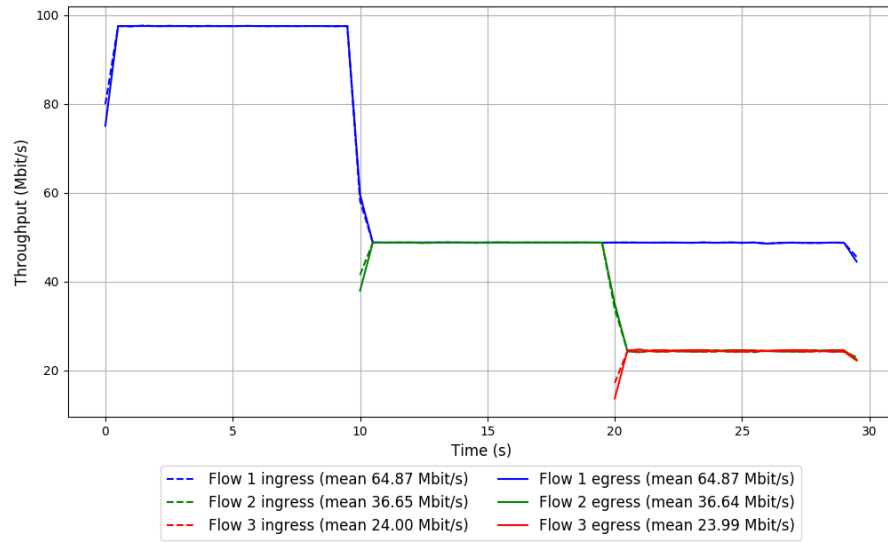


Run 5: Statistics of TCP Cubic

Start at: 2018-04-03 18:40:33
End at: 2018-04-03 18:41:03
Local clock offset: 2.641 ms
Remote clock offset: -3.838 ms

Below is generated by plot.py at 2018-04-04 00:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 59.621 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 64.87 Mbit/s
95th percentile per-packet one-way delay: 36.855 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 36.64 Mbit/s
95th percentile per-packet one-way delay: 59.756 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 59.876 ms
Loss rate: 0.71%

Run 5: Report of TCP Cubic — Data Link

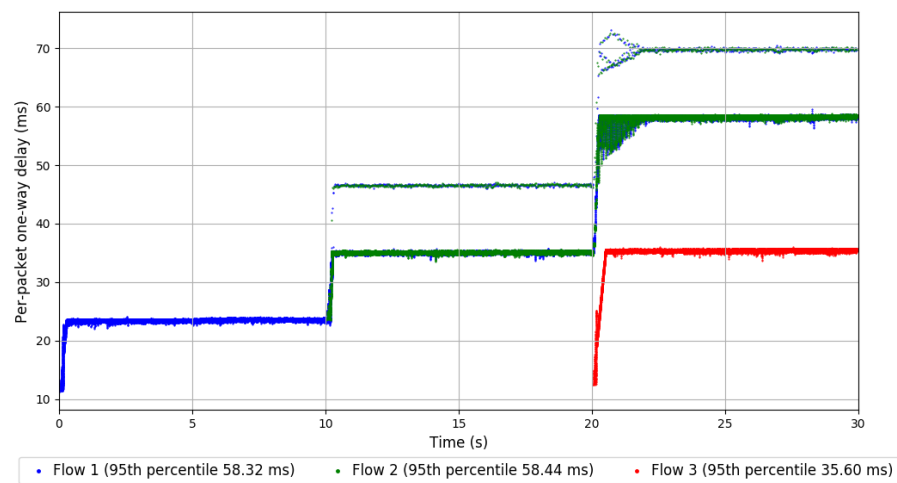
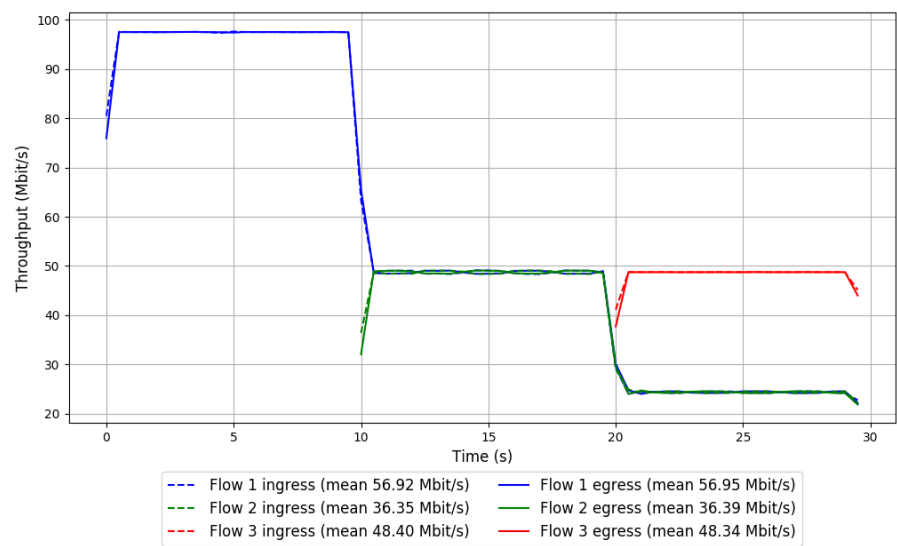


Run 6: Statistics of TCP Cubic

Start at: 2018-04-03 19:01:28
End at: 2018-04-03 19:01:58
Local clock offset: 2.136 ms
Remote clock offset: -0.762 ms

Below is generated by plot.py at 2018-04-04 00:22:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 58.356 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.95 Mbit/s
95th percentile per-packet one-way delay: 58.321 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 58.440 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 48.34 Mbit/s
95th percentile per-packet one-way delay: 35.602 ms
Loss rate: 0.47%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-03 19:22:26

End at: 2018-04-03 19:22:56

Local clock offset: 3.14 ms

Remote clock offset: 3.885 ms

Below is generated by plot.py at 2018-04-04 00:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 47.802 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 47.561 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.46 Mbit/s

95th percentile per-packet one-way delay: 47.400 ms

Loss rate: 0.25%

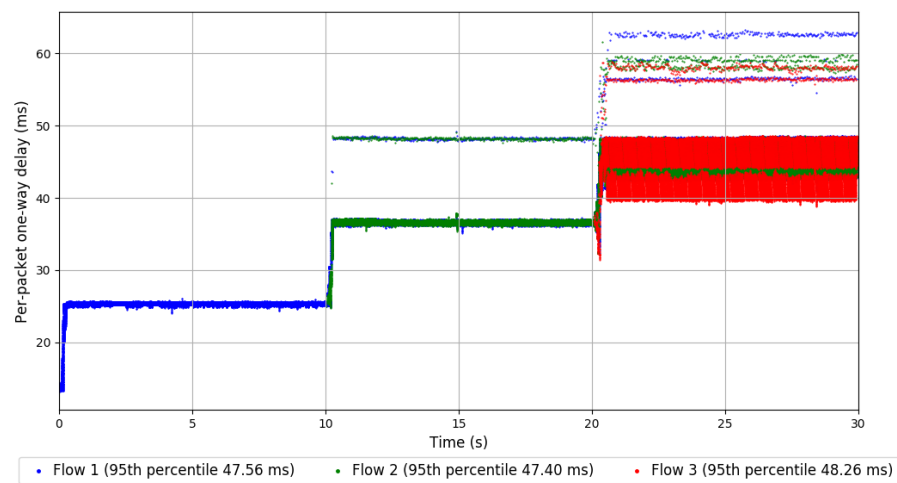
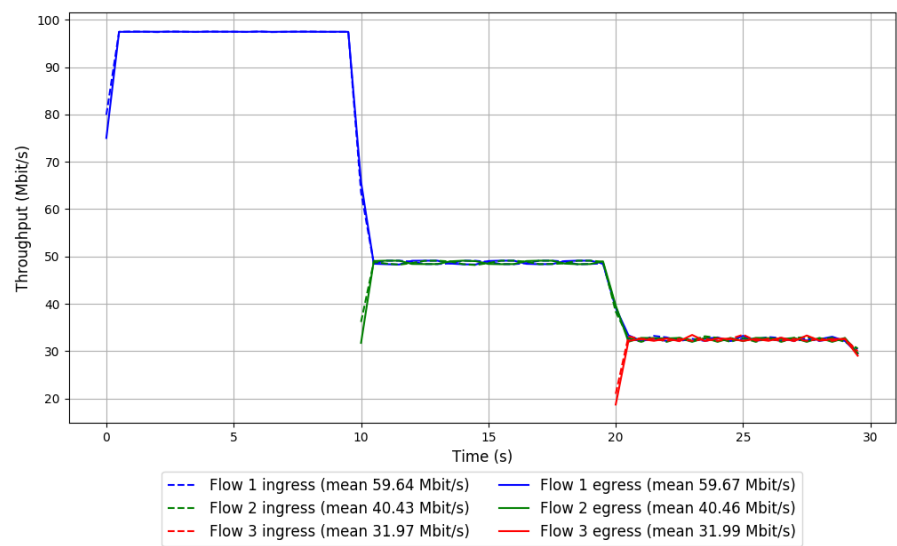
-- Flow 3:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 48.258 ms

Loss rate: 0.50%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-03 19:43:23

End at: 2018-04-03 19:43:53

Local clock offset: 3.091 ms

Remote clock offset: 0.187 ms

Below is generated by plot.py at 2018-04-04 00:23:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 60.349 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 60.302 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 37.849 ms

Loss rate: 0.23%

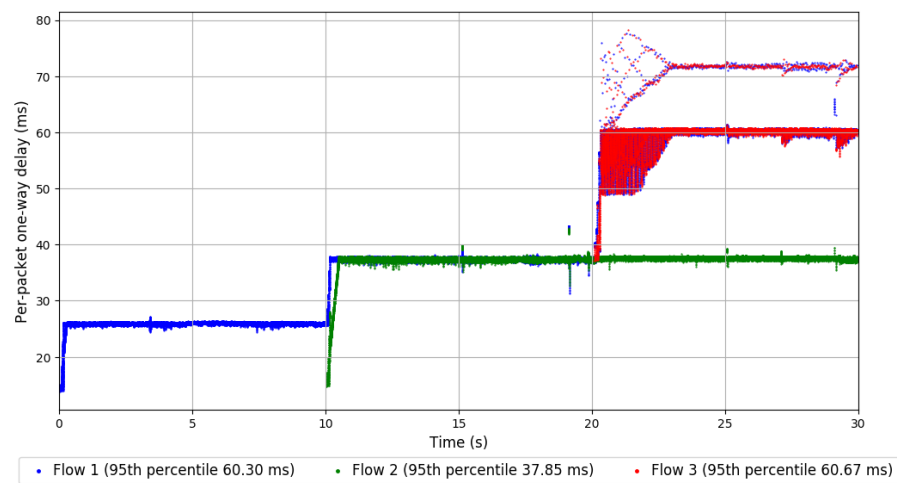
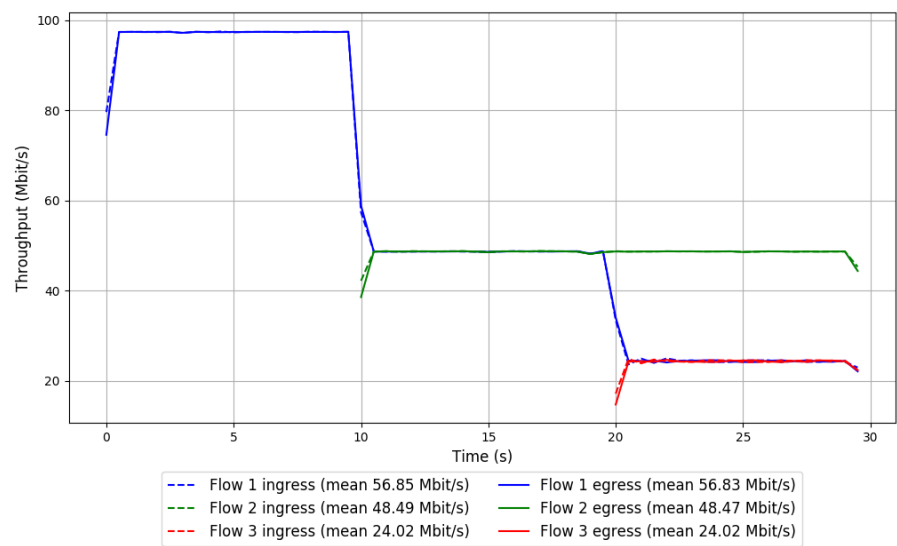
-- Flow 3:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 60.671 ms

Loss rate: 0.71%

Run 8: Report of TCP Cubic — Data Link

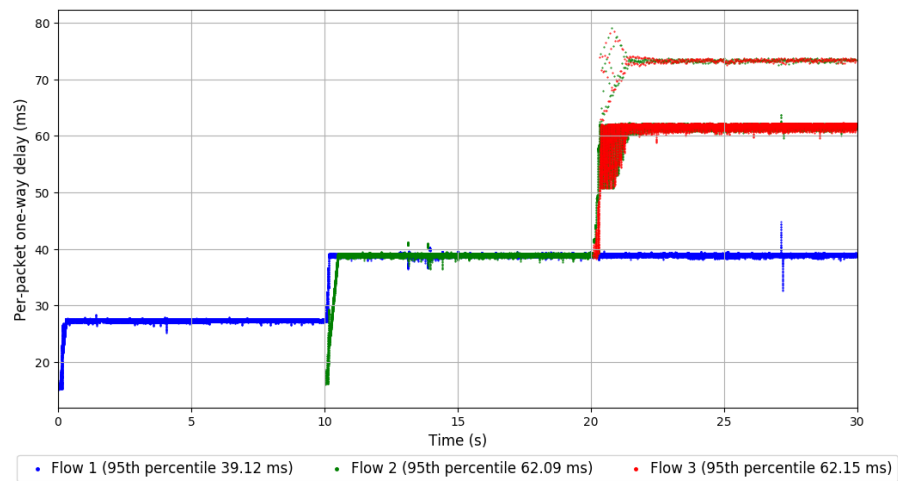
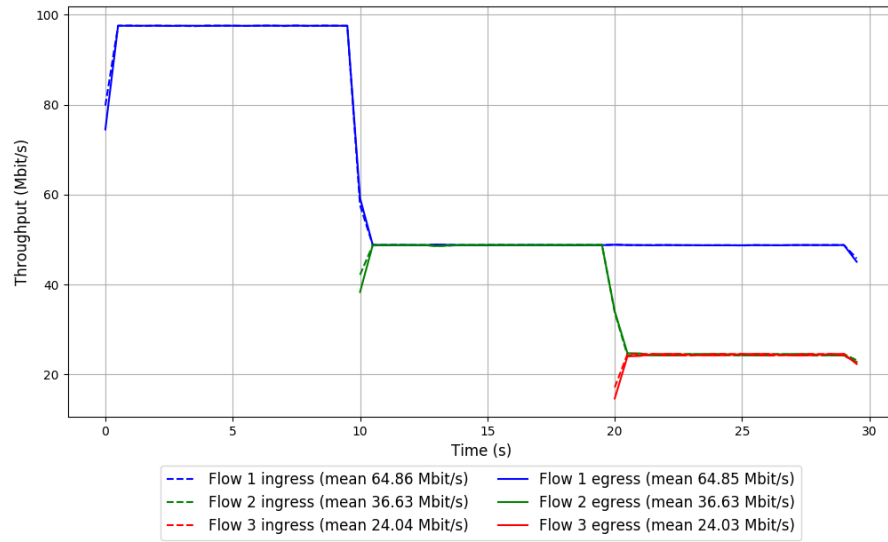


Run 9: Statistics of TCP Cubic

Start at: 2018-04-03 20:04:20
End at: 2018-04-03 20:04:50
Local clock offset: 2.319 ms
Remote clock offset: -3.325 ms

Below is generated by plot.py at 2018-04-04 00:23:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 61.996 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 64.85 Mbit/s
95th percentile per-packet one-way delay: 39.117 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 36.63 Mbit/s
95th percentile per-packet one-way delay: 62.085 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: 62.150 ms
Loss rate: 0.71%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-03 20:25:16

End at: 2018-04-03 20:25:46

Local clock offset: -0.899 ms

Remote clock offset: 1.855 ms

Below is generated by plot.py at 2018-04-04 00:23:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 57.808 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 64.85 Mbit/s

95th percentile per-packet one-way delay: 35.043 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 57.903 ms

Loss rate: 0.23%

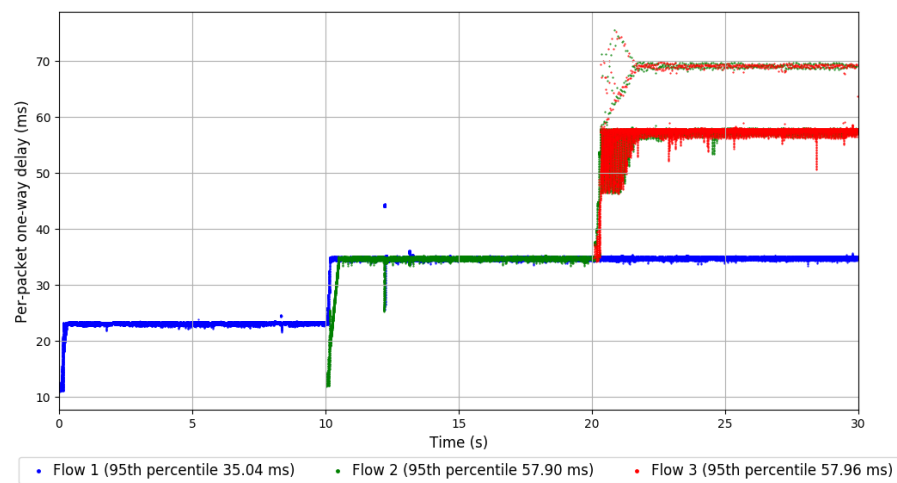
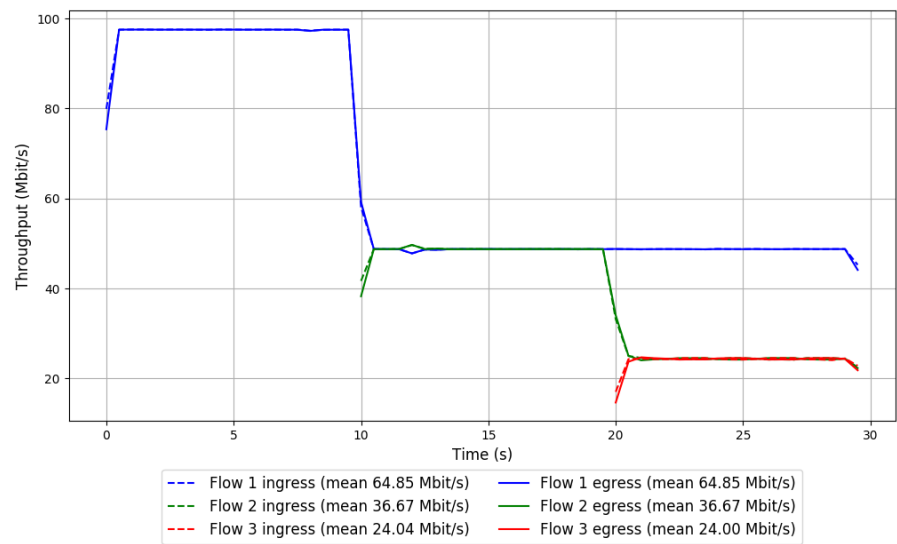
-- Flow 3:

Average throughput: 24.00 Mbit/s

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

Loss rate: 0.72%

Run 10: Report of TCP Cubic — Data Link

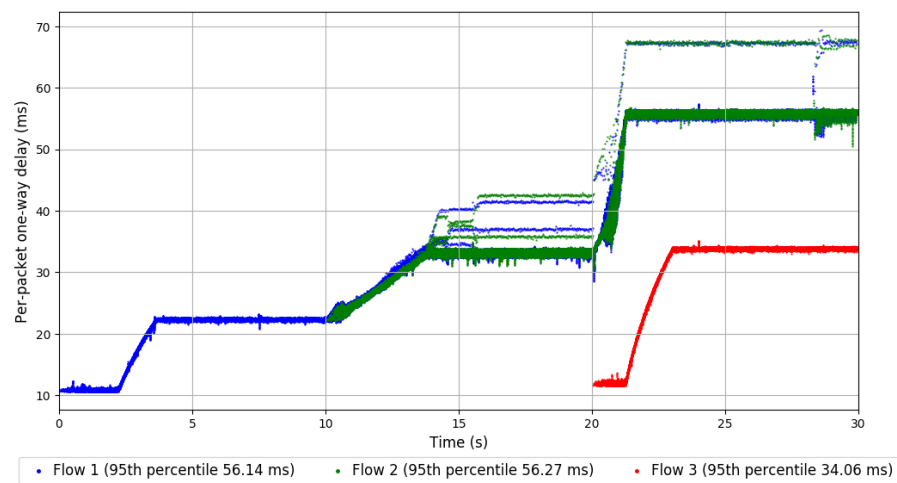
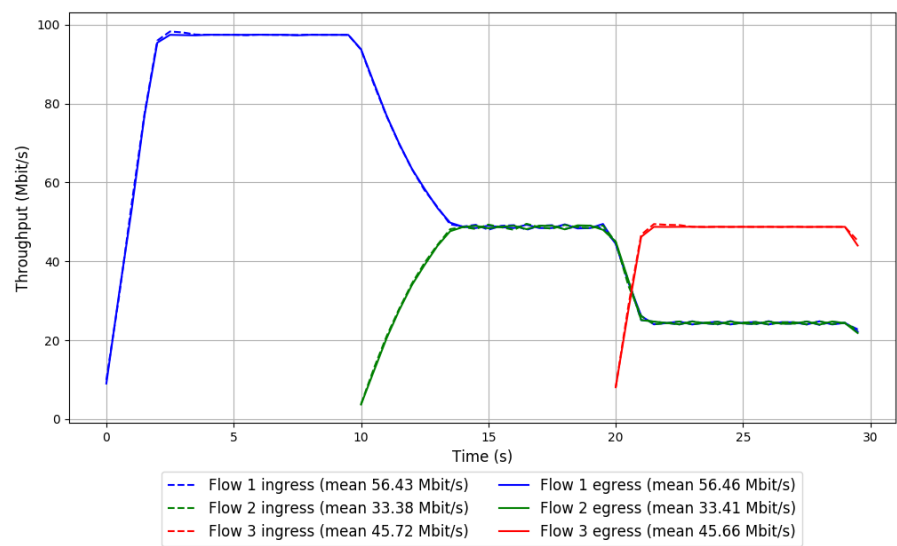


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-03 17:07:21
End at: 2018-04-03 17:07:51
Local clock offset: 0.89 ms
Remote clock offset: 6.823 ms

# Below is generated by plot.py at 2018-04-04 00:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 56.163 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.46 Mbit/s
95th percentile per-packet one-way delay: 56.137 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 33.41 Mbit/s
95th percentile per-packet one-way delay: 56.271 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 34.064 ms
Loss rate: 0.49%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-03 17:28:41

End at: 2018-04-03 17:29:11

Local clock offset: 1.091 ms

Remote clock offset: 2.816 ms

Below is generated by plot.py at 2018-04-04 00:23:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.70 Mbit/s

95th percentile per-packet one-way delay: 55.705 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 33.805 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 56.188 ms

Loss rate: 0.25%

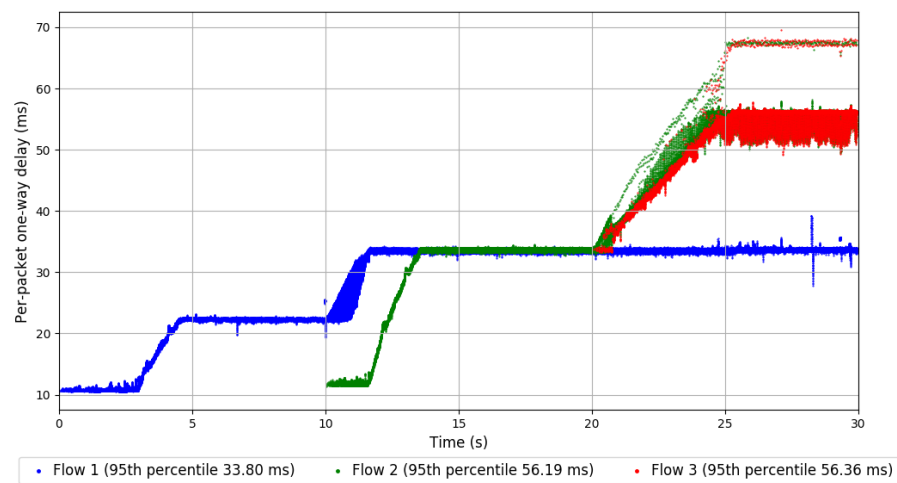
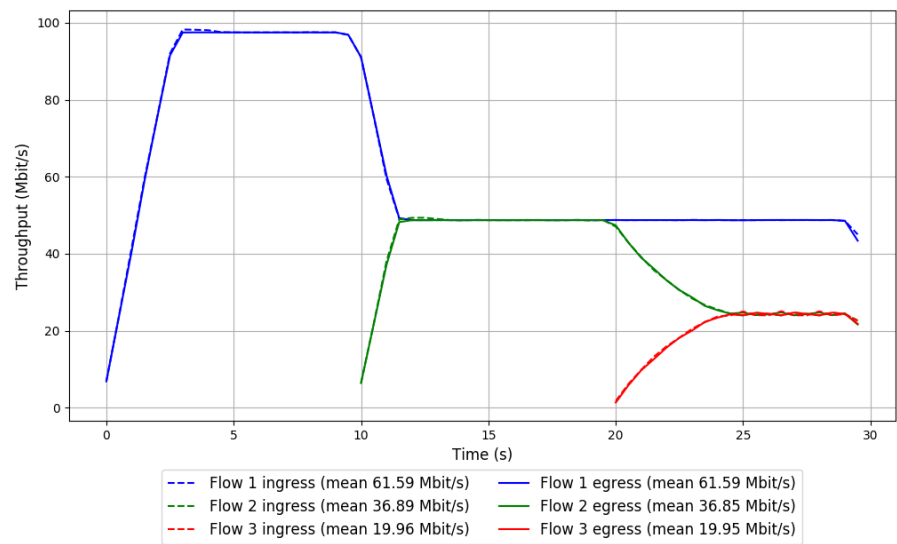
-- Flow 3:

Average throughput: 19.95 Mbit/s

95th percentile per-packet one-way delay: 56.358 ms

Loss rate: 0.84%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-03 17:50:08

End at: 2018-04-03 17:50:38

Local clock offset: 2.208 ms

Remote clock offset: 1.634 ms

Below is generated by plot.py at 2018-04-04 00:23:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 46.360 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 56.72 Mbit/s

95th percentile per-packet one-way delay: 46.185 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 46.402 ms

Loss rate: 0.25%

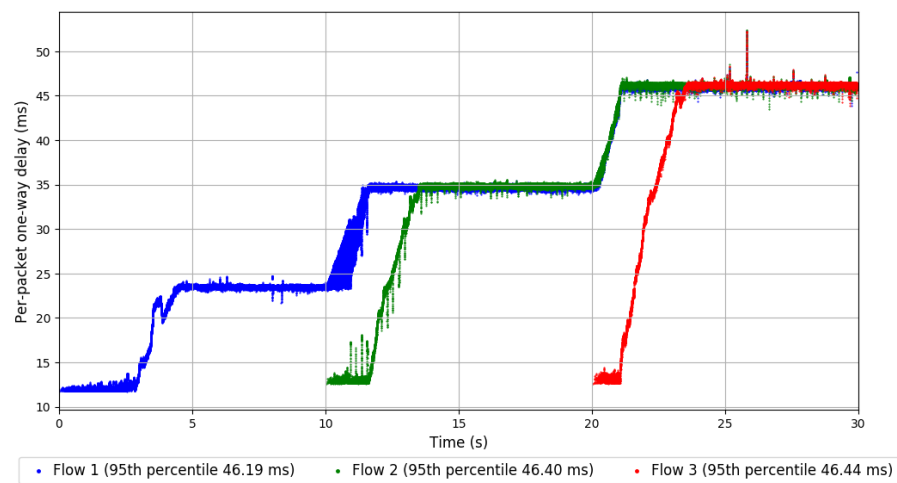
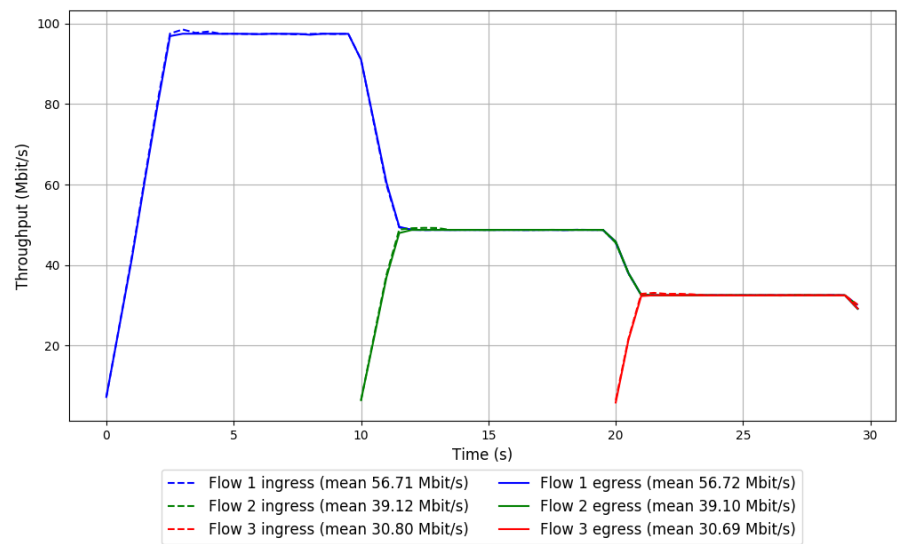
-- Flow 3:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 46.438 ms

Loss rate: 0.64%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-03 18:23:29

End at: 2018-04-03 18:23:59

Local clock offset: 2.671 ms

Remote clock offset: -0.522 ms

Run 4: Report of LEDBAT — Data Link

Figure is missing

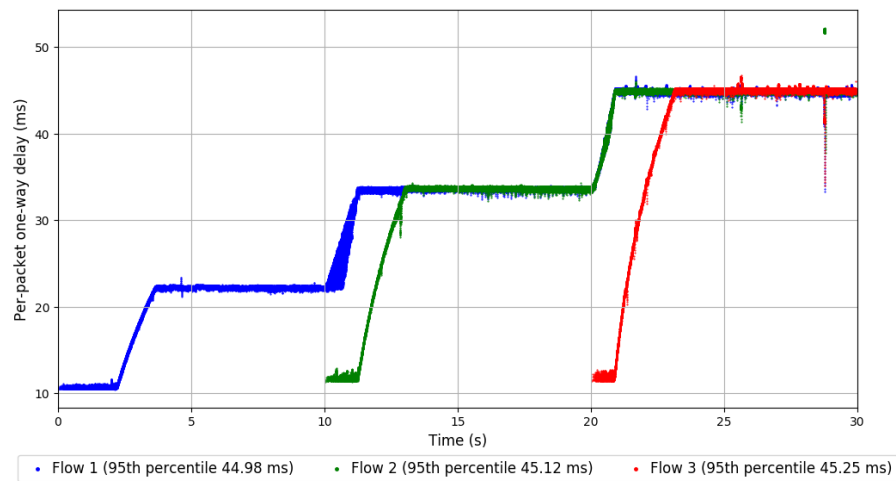
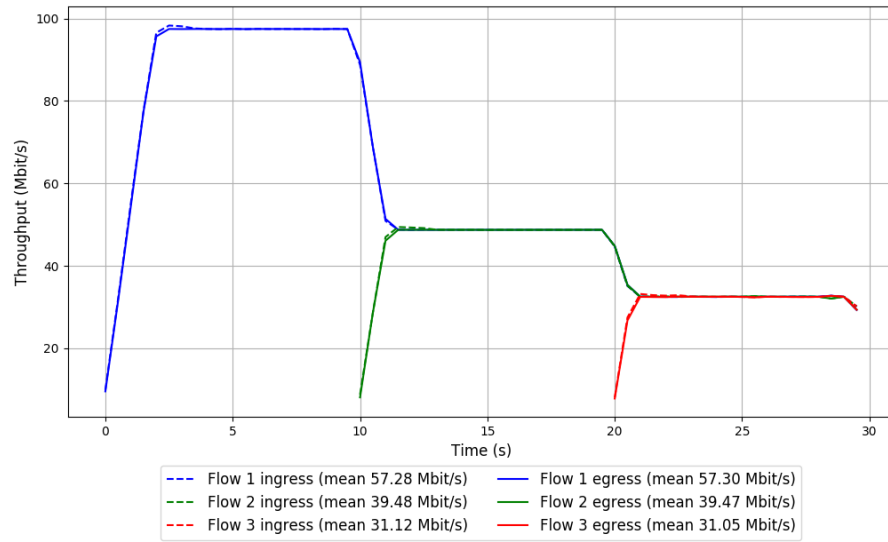
Figure is missing

Run 5: Statistics of LEDBAT

Start at: 2018-04-03 18:47:30
End at: 2018-04-03 18:48:00
Local clock offset: 2.107 ms
Remote clock offset: -2.478 ms

Below is generated by plot.py at 2018-04-04 00:23:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 45.140 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 57.30 Mbit/s
95th percentile per-packet one-way delay: 44.977 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: 45.120 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 45.253 ms
Loss rate: 0.61%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-03 19:08:25

End at: 2018-04-03 19:08:55

Local clock offset: 3.009 ms

Remote clock offset: 1.248 ms

Below is generated by plot.py at 2018-04-04 00:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 59.109 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 36.796 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.96 Mbit/s

95th percentile per-packet one-way delay: 59.211 ms

Loss rate: 0.21%

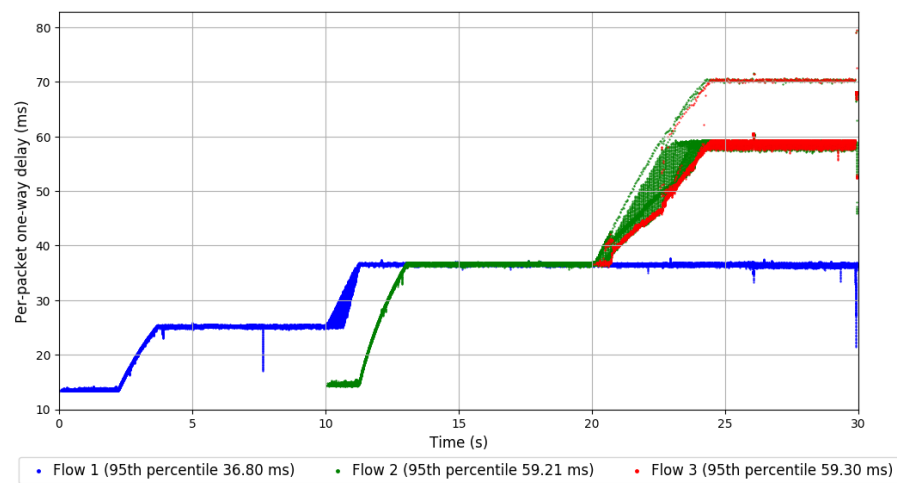
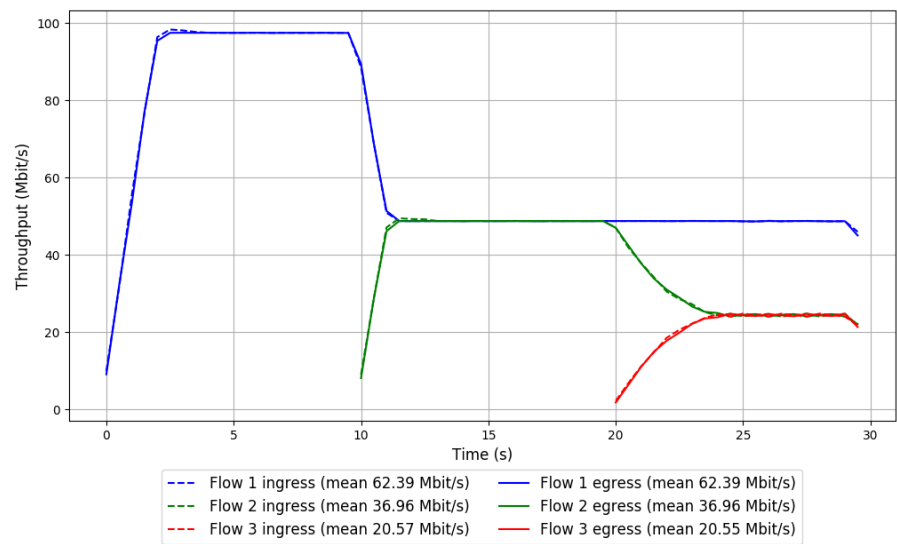
-- Flow 3:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 59.297 ms

Loss rate: 0.69%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-03 19:29:23

End at: 2018-04-03 19:29:53

Local clock offset: 4.497 ms

Remote clock offset: 5.369 ms

Below is generated by plot.py at 2018-04-04 00:24:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 48.311 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 48.191 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 37.97 Mbit/s

95th percentile per-packet one-way delay: 48.359 ms

Loss rate: 0.25%

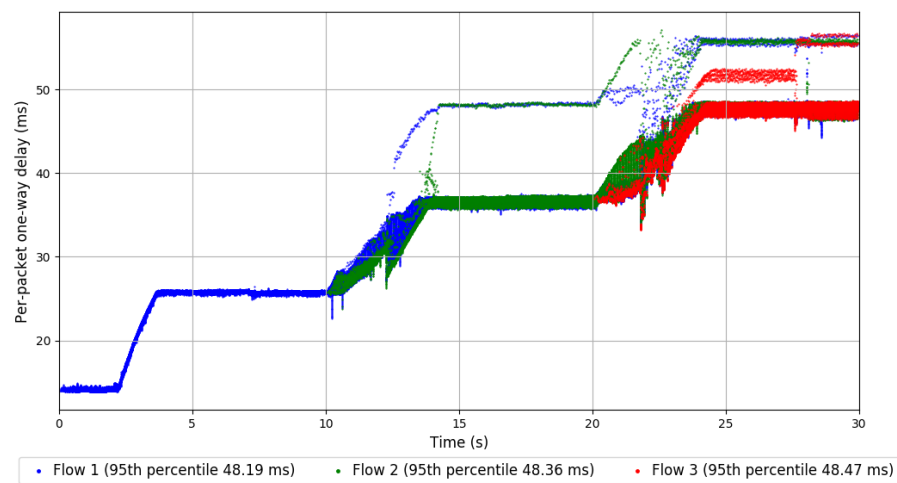
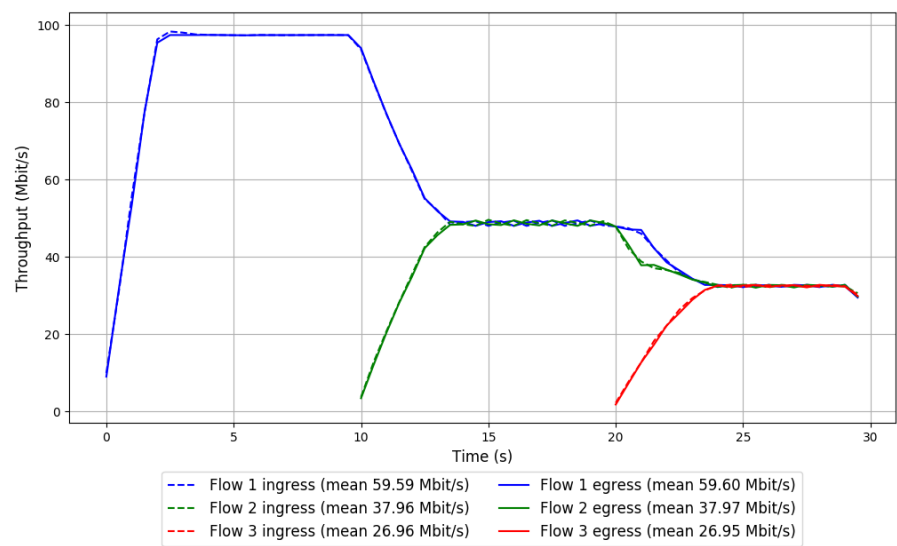
-- Flow 3:

Average throughput: 26.95 Mbit/s

95th percentile per-packet one-way delay: 48.471 ms

Loss rate: 0.68%

Run 7: Report of LEDBAT — Data Link

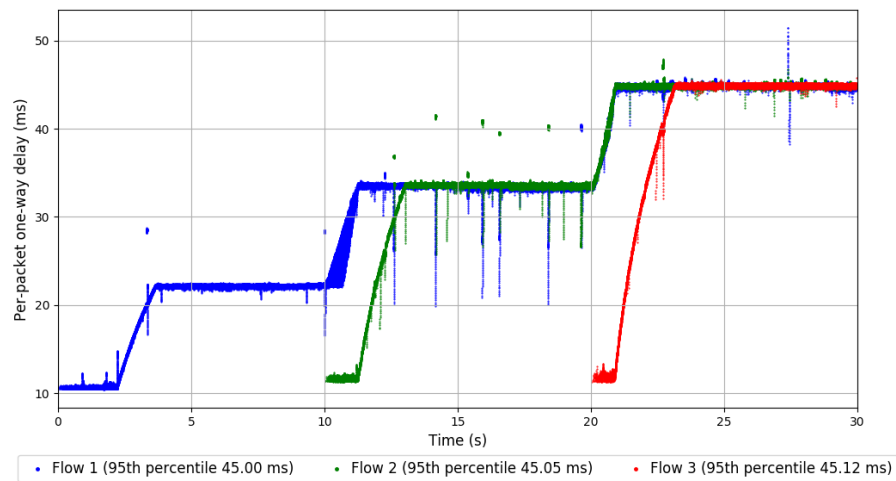
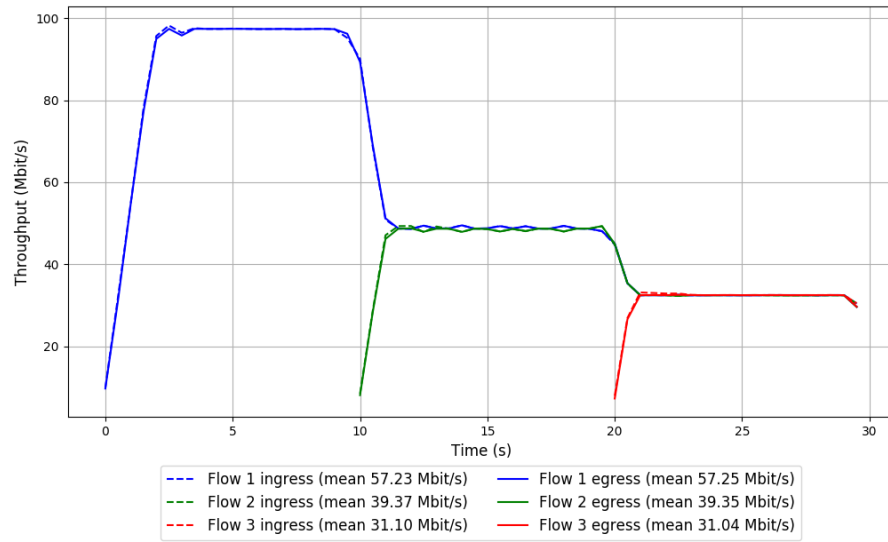


Run 8: Statistics of LEDBAT

Start at: 2018-04-03 19:50:20
End at: 2018-04-03 19:50:50
Local clock offset: -0.74 ms
Remote clock offset: -0.805 ms

Below is generated by plot.py at 2018-04-04 00:24:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 45.062 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 45.001 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 45.049 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 45.124 ms
Loss rate: 0.61%

Run 8: Report of LEDBAT — Data Link

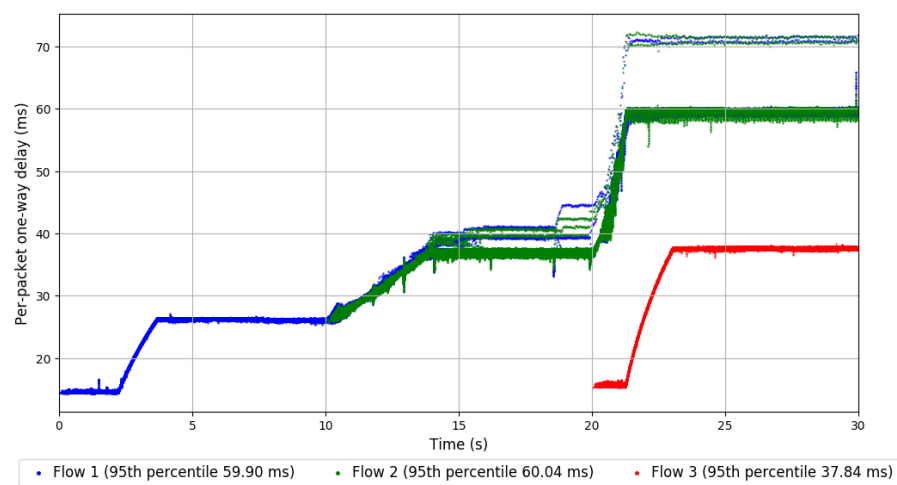
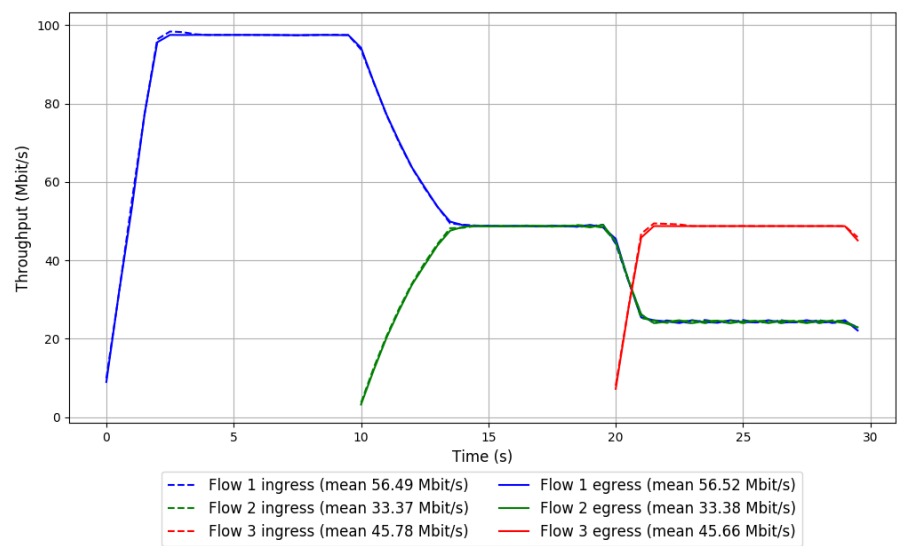


Run 9: Statistics of LEDBAT

Start at: 2018-04-03 20:11:17
End at: 2018-04-03 20:11:47
Local clock offset: 1.997 ms
Remote clock offset: -0.558 ms

Below is generated by plot.py at 2018-04-04 00:24:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 59.938 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.52 Mbit/s
95th percentile per-packet one-way delay: 59.901 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 60.039 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 37.837 ms
Loss rate: 0.49%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-03 20:32:14

End at: 2018-04-03 20:32:44

Local clock offset: -1.043 ms

Remote clock offset: 1.374 ms

Below is generated by plot.py at 2018-04-04 00:24:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 46.574 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 57.28 Mbit/s

95th percentile per-packet one-way delay: 46.418 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 39.47 Mbit/s

95th percentile per-packet one-way delay: 46.509 ms

Loss rate: 0.55%

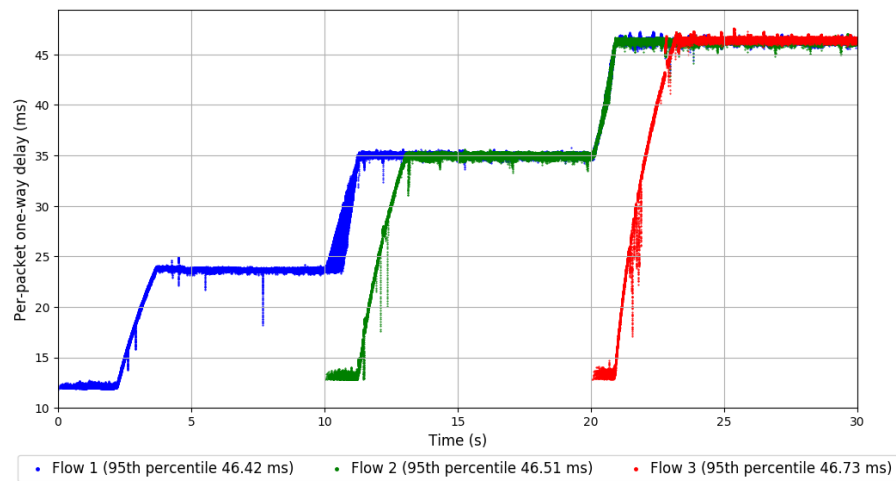
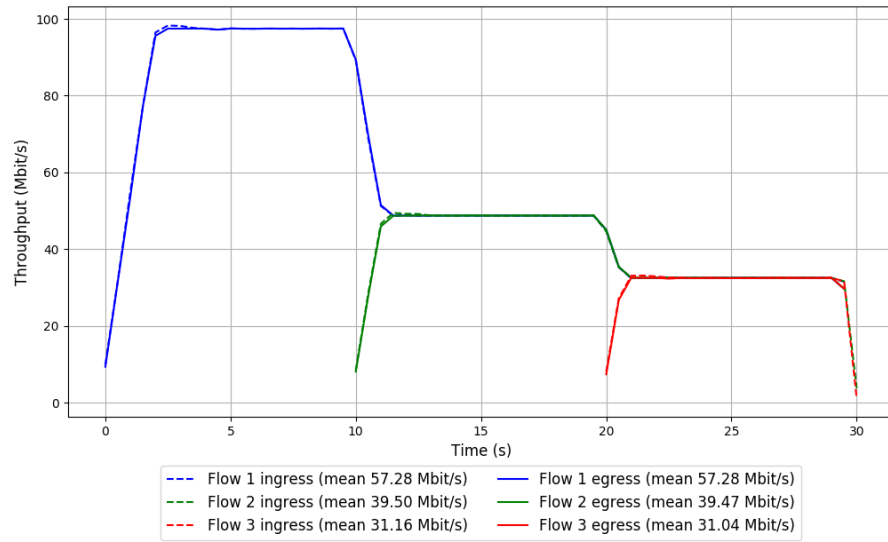
-- Flow 3:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 46.733 ms

Loss rate: 0.96%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-04-03 17:06:12

End at: 2018-04-03 17:06:42

Local clock offset: 2.178 ms

Remote clock offset: 6.306 ms

Below is generated by plot.py at 2018-04-04 00:24:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 32.102 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 32.877 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 44.05 Mbit/s

95th percentile per-packet one-way delay: 19.816 ms

Loss rate: 0.12%

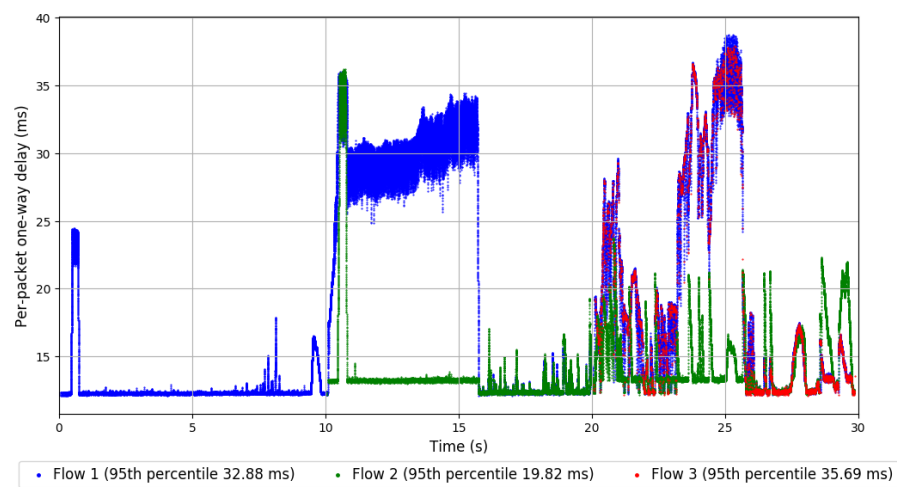
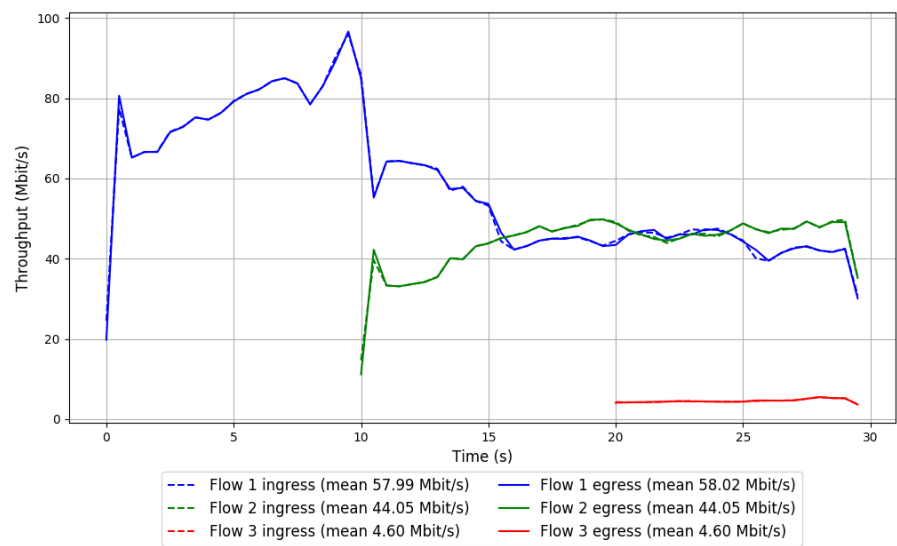
-- Flow 3:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 35.685 ms

Loss rate: 0.22%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-03 17:27:32

End at: 2018-04-03 17:28:02

Local clock offset: 1.743 ms

Remote clock offset: 2.044 ms

Below is generated by plot.py at 2018-04-04 00:24:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 46.369 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 45.350 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 46.238 ms

Loss rate: 0.11%

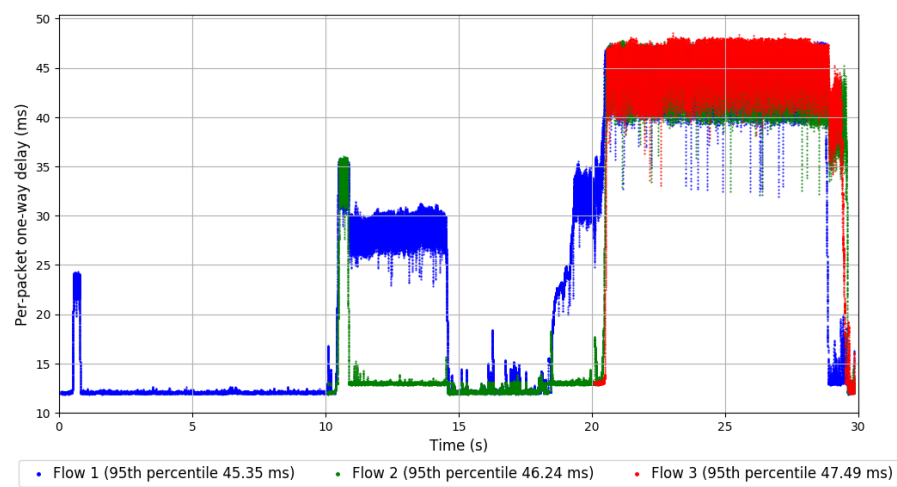
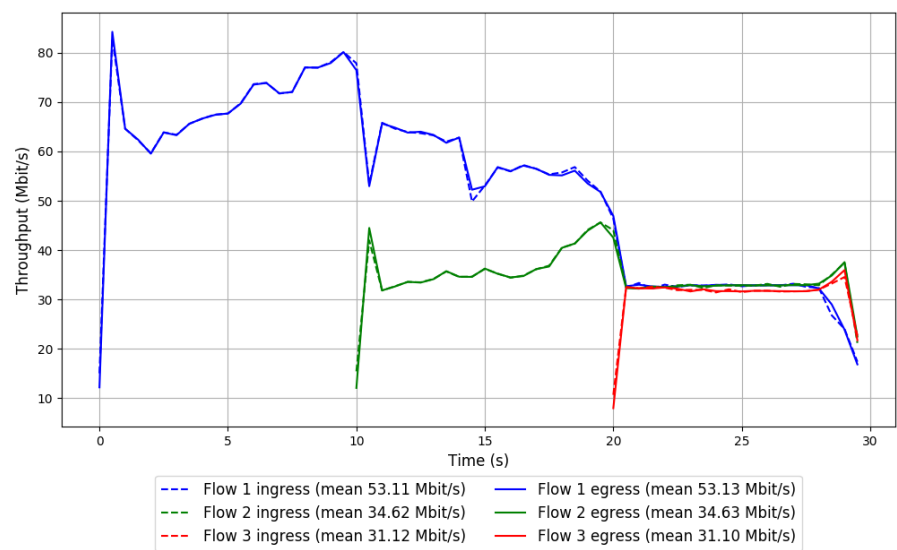
-- Flow 3:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 47.489 ms

Loss rate: 0.34%

Run 2: Report of PCC — Data Link

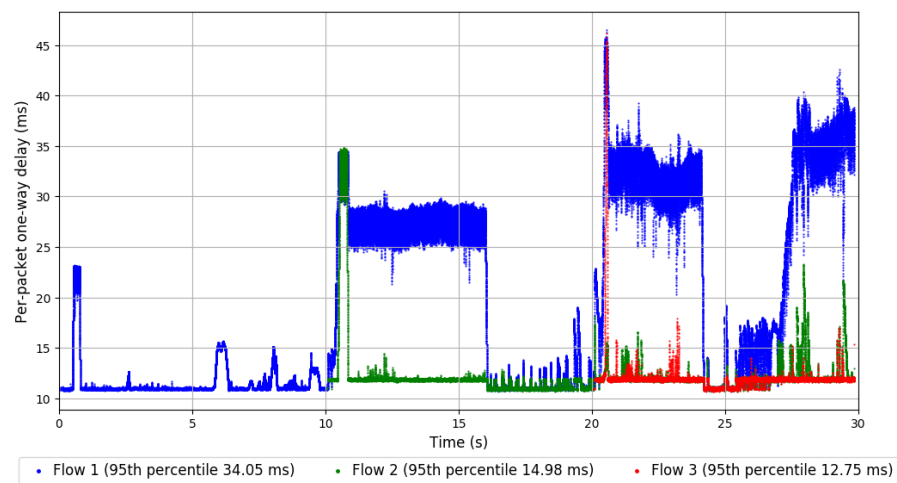
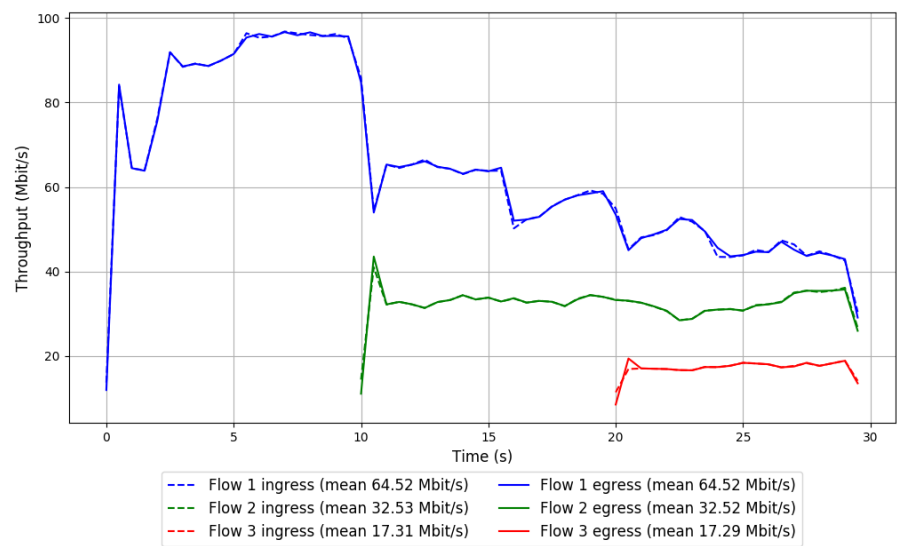


Run 3: Statistics of PCC

Start at: 2018-04-03 17:48:58
End at: 2018-04-03 17:49:28
Local clock offset: -4.232 ms
Remote clock offset: -3.803 ms

Below is generated by plot.py at 2018-04-04 00:25:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 33.297 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 64.52 Mbit/s
95th percentile per-packet one-way delay: 34.045 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 14.981 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 17.29 Mbit/s
95th percentile per-packet one-way delay: 12.751 ms
Loss rate: 0.30%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-03 18:22:20

End at: 2018-04-03 18:22:50

Local clock offset: 4.246 ms

Remote clock offset: 1.395 ms

Below is generated by plot.py at 2018-04-04 00:26:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.52 Mbit/s

95th percentile per-packet one-way delay: 46.126 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 44.941 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 46.168 ms

Loss rate: 0.11%

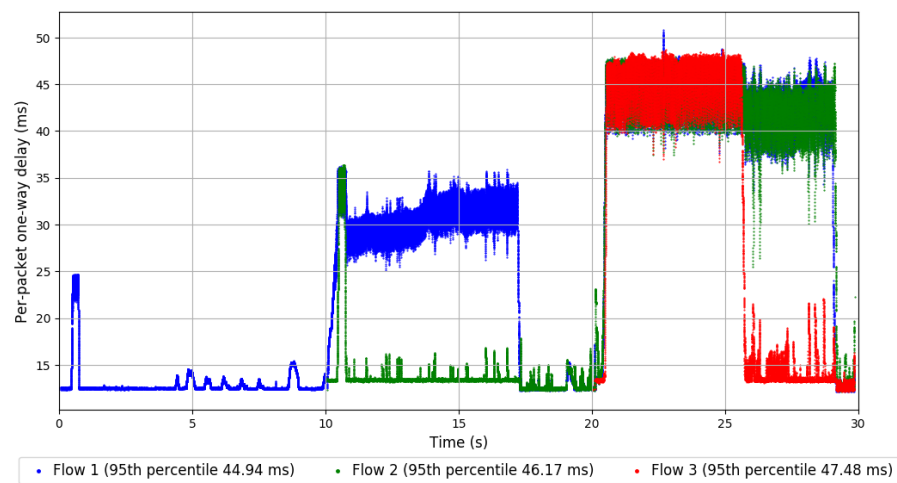
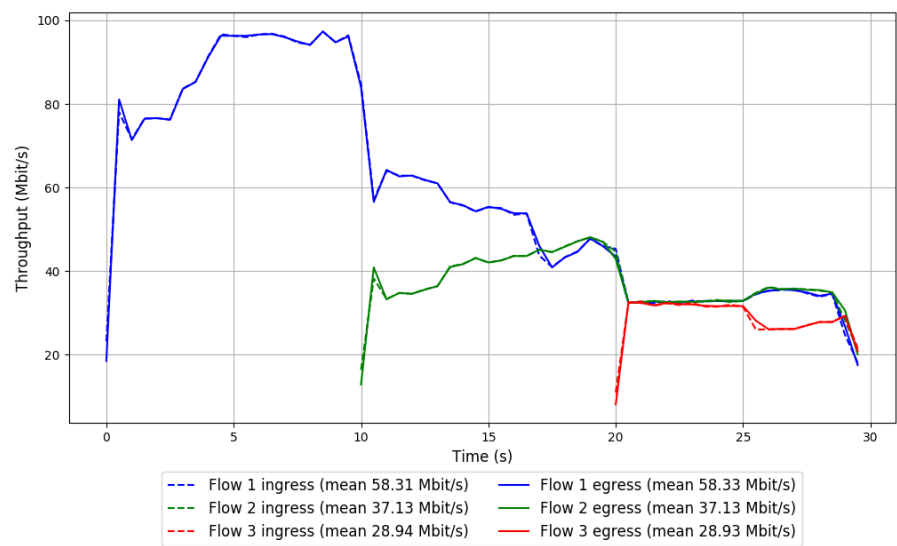
-- Flow 3:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 47.477 ms

Loss rate: 0.26%

Run 4: Report of PCC — Data Link

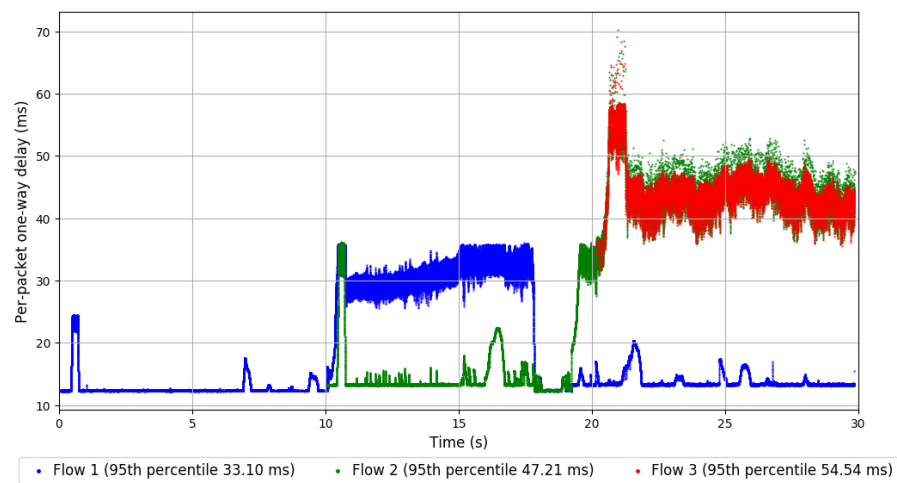
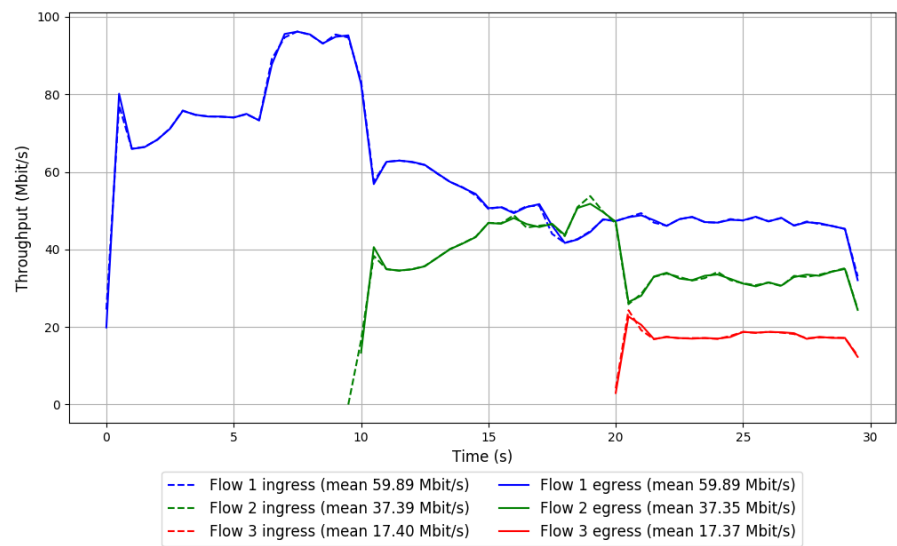


Run 5: Statistics of PCC

Start at: 2018-04-03 18:46:22
End at: 2018-04-03 18:46:52
Local clock offset: 3.729 ms
Remote clock offset: -2.626 ms

Below is generated by plot.py at 2018-04-04 00:26:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 45.433 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 33.104 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.35 Mbit/s
95th percentile per-packet one-way delay: 47.211 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 17.37 Mbit/s
95th percentile per-packet one-way delay: 54.542 ms
Loss rate: 0.54%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-03 19:07:17

End at: 2018-04-03 19:07:47

Local clock offset: 3.643 ms

Remote clock offset: 1.791 ms

Below is generated by plot.py at 2018-04-04 00:26:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 47.492 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 58.83 Mbit/s

95th percentile per-packet one-way delay: 46.473 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.23 Mbit/s

95th percentile per-packet one-way delay: 47.571 ms

Loss rate: 0.09%

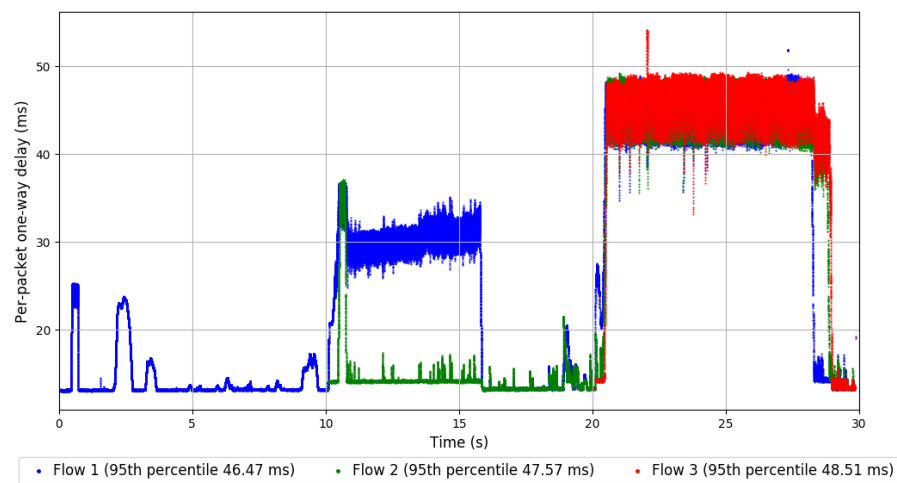
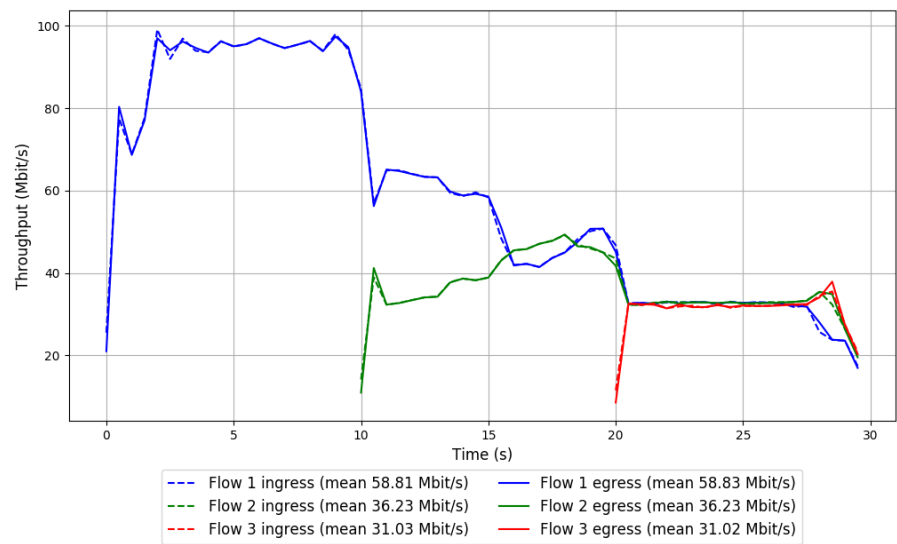
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 48.513 ms

Loss rate: 0.21%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-03 19:28:14

End at: 2018-04-03 19:28:44

Local clock offset: 3.923 ms

Remote clock offset: 5.808 ms

Below is generated by plot.py at 2018-04-04 00:26:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 46.805 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 57.07 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 46.831 ms

Loss rate: 0.11%

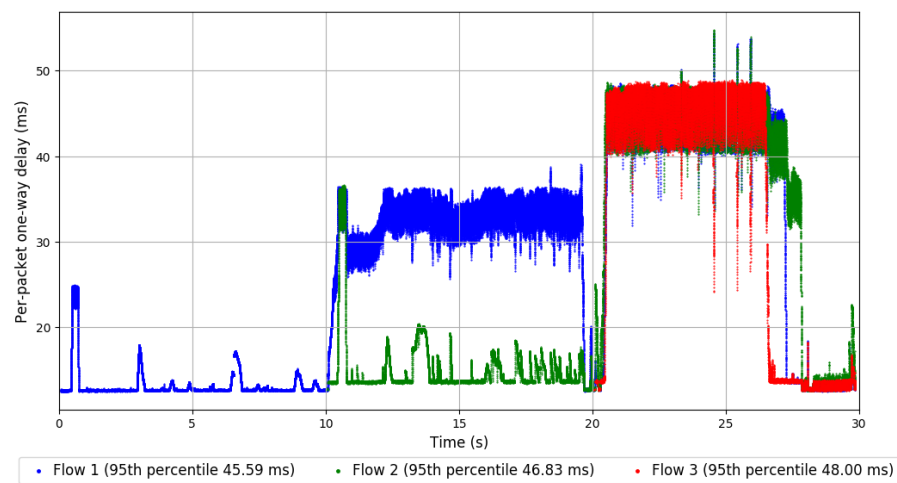
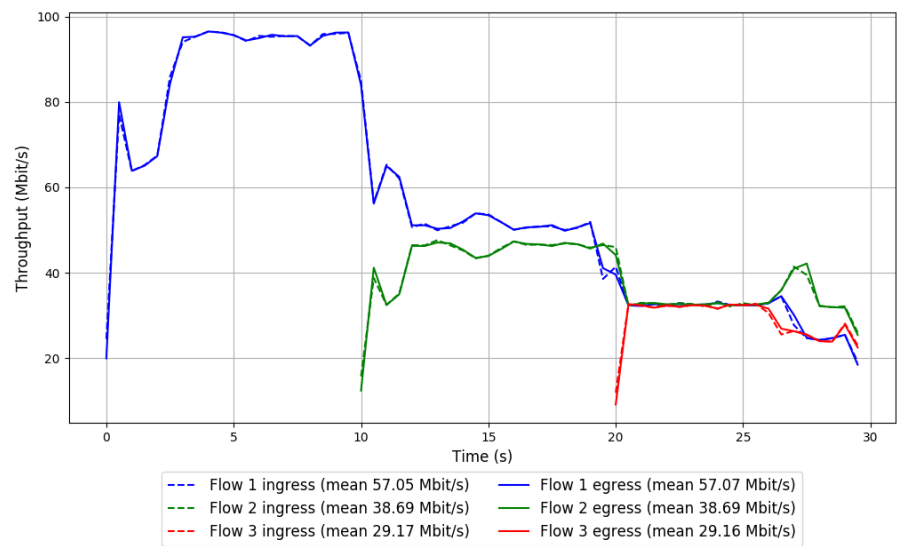
-- Flow 3:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: 48.001 ms

Loss rate: 0.24%

Run 7: Report of PCC — Data Link

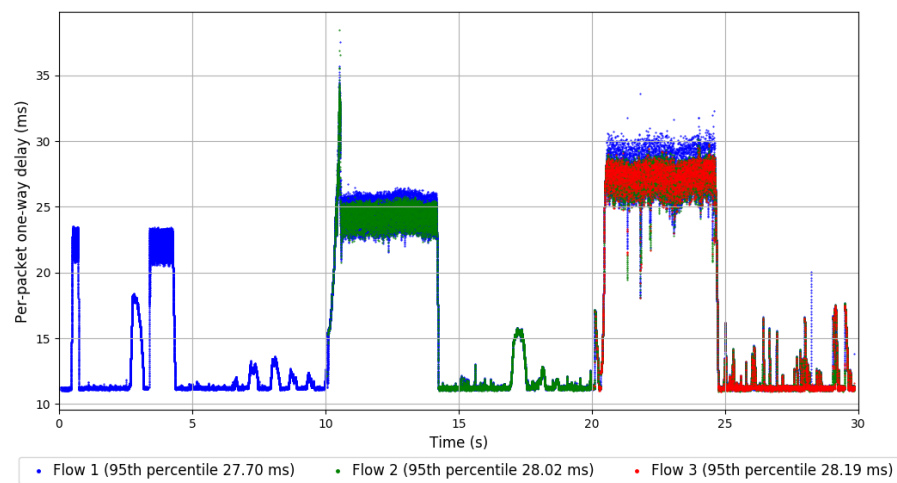
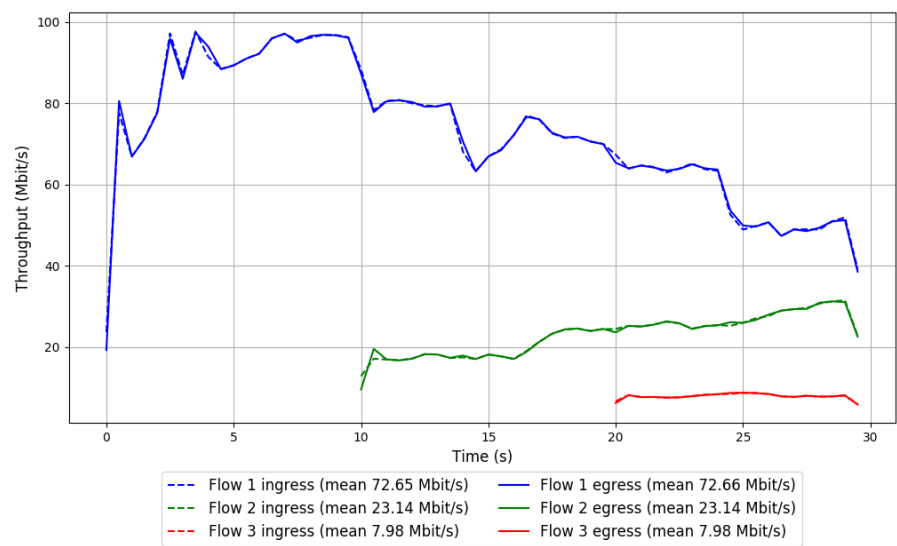


Run 8: Statistics of PCC

Start at: 2018-04-03 19:49:11
End at: 2018-04-03 19:49:41
Local clock offset: -0.4 ms
Remote clock offset: -1.084 ms

Below is generated by plot.py at 2018-04-04 00:26:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.66 Mbit/s
95th percentile per-packet one-way delay: 27.824 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 27.704 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 28.022 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 28.189 ms
Loss rate: 0.22%

Run 8: Report of PCC — Data Link

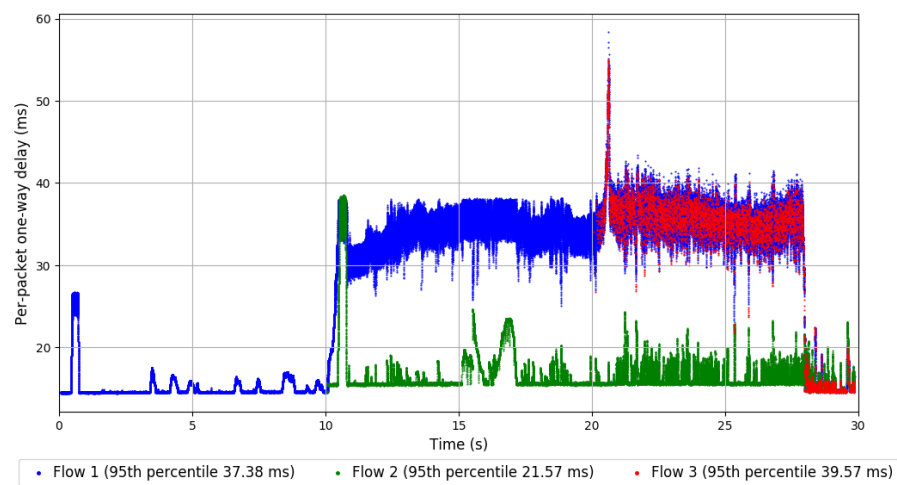
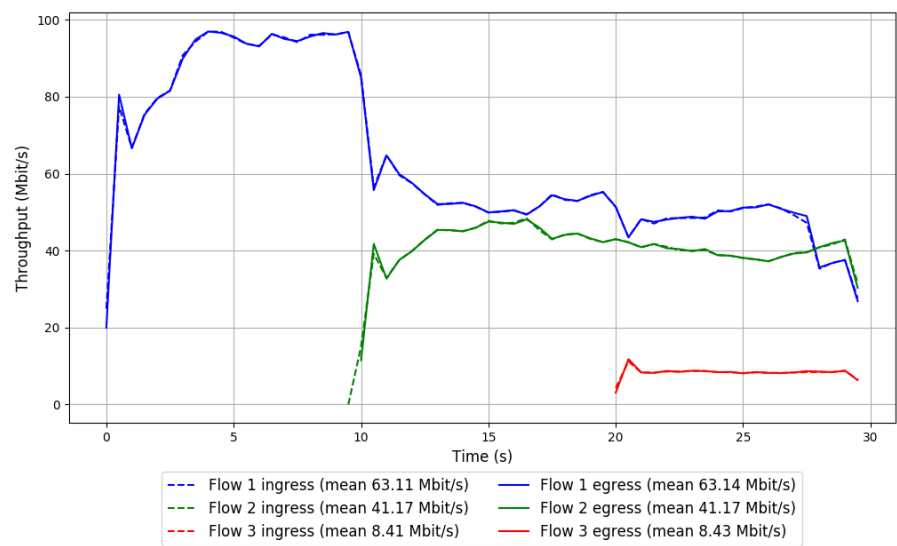


Run 9: Statistics of PCC

Start at: 2018-04-03 20:10:09
End at: 2018-04-03 20:10:39
Local clock offset: 2.075 ms
Remote clock offset: -0.962 ms

Below is generated by plot.py at 2018-04-04 00:26:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 37.129 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 37.382 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 41.17 Mbit/s
95th percentile per-packet one-way delay: 21.567 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 39.571 ms
Loss rate: 0.24%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-03 20:31:05

End at: 2018-04-03 20:31:35

Local clock offset: -1.16 ms

Remote clock offset: 2.281 ms

Below is generated by plot.py at 2018-04-04 00:26:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.99 Mbit/s

95th percentile per-packet one-way delay: 32.364 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 32.840 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 17.346 ms

Loss rate: 0.11%

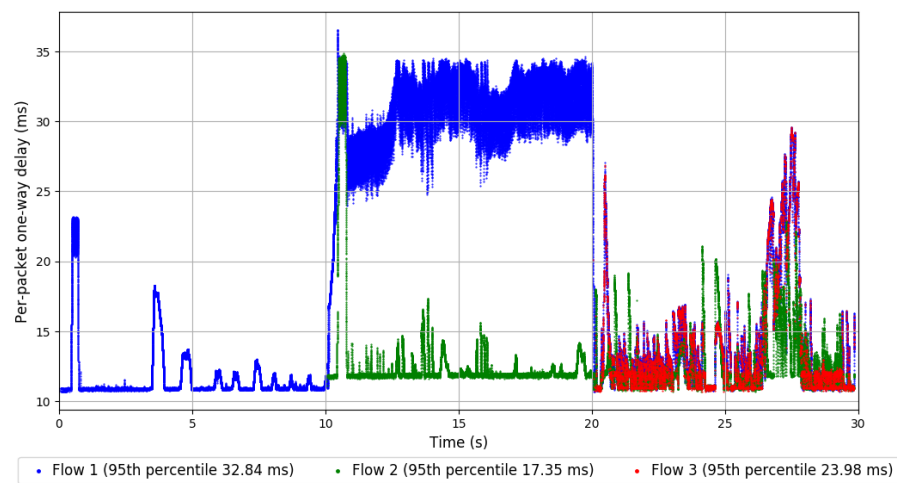
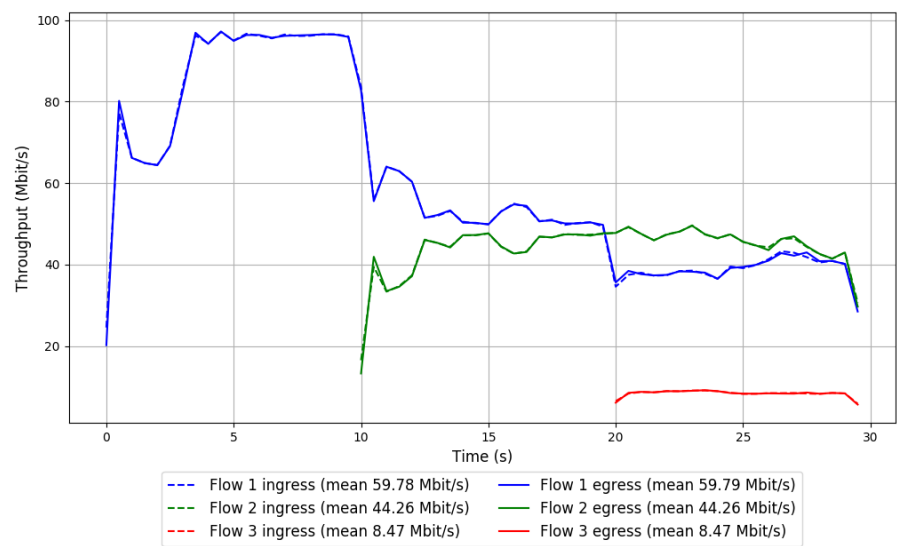
-- Flow 3:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 23.981 ms

Loss rate: 0.23%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-03 17:13:18

End at: 2018-04-03 17:13:48

Local clock offset: 2.101 ms

Remote clock offset: 7.893 ms

Below is generated by plot.py at 2018-04-04 00:26:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 45.203 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 58.41 Mbit/s

95th percentile per-packet one-way delay: 45.199 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 45.170 ms

Loss rate: 0.22%

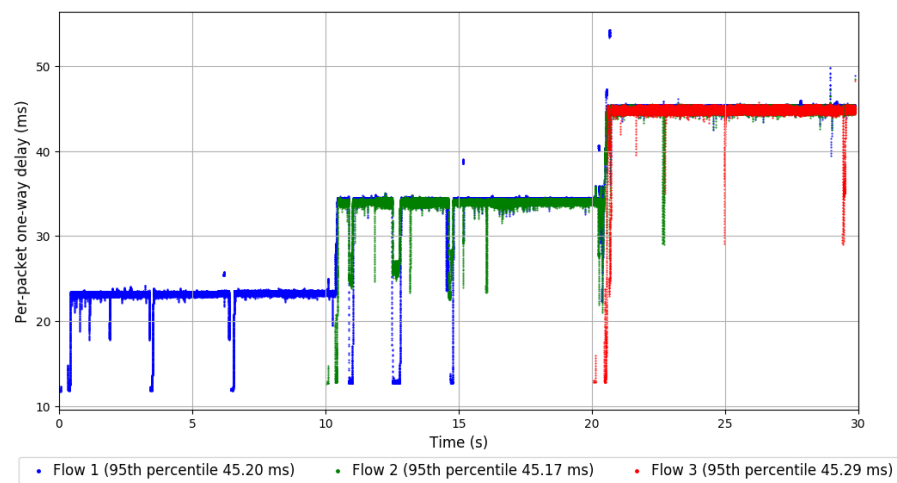
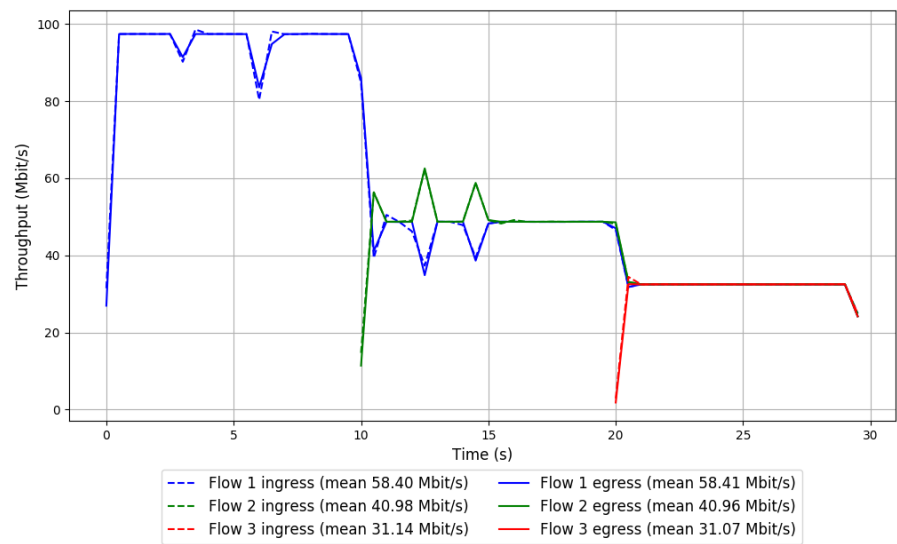
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 45.286 ms

Loss rate: 0.59%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-03 17:34:43

End at: 2018-04-03 17:35:13

Local clock offset: 4.545 ms

Remote clock offset: 1.839 ms

Below is generated by plot.py at 2018-04-04 00:27:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 47.965 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 47.916 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 47.866 ms

Loss rate: 0.23%

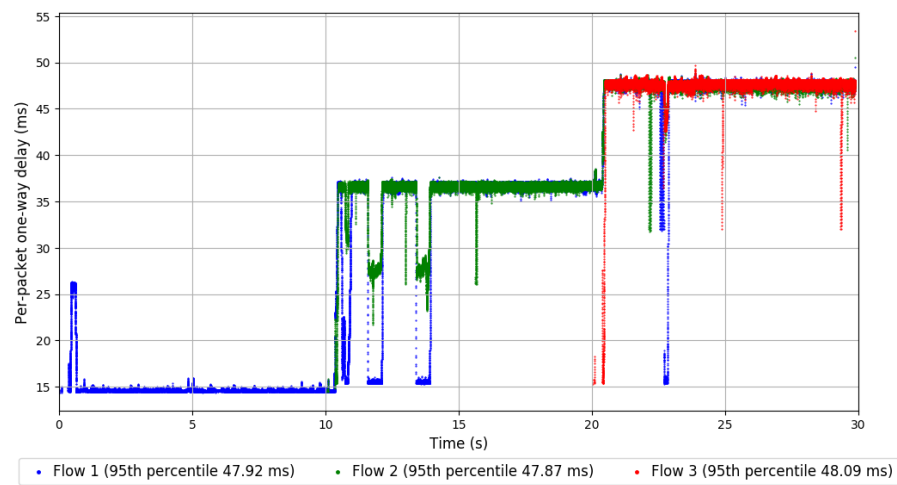
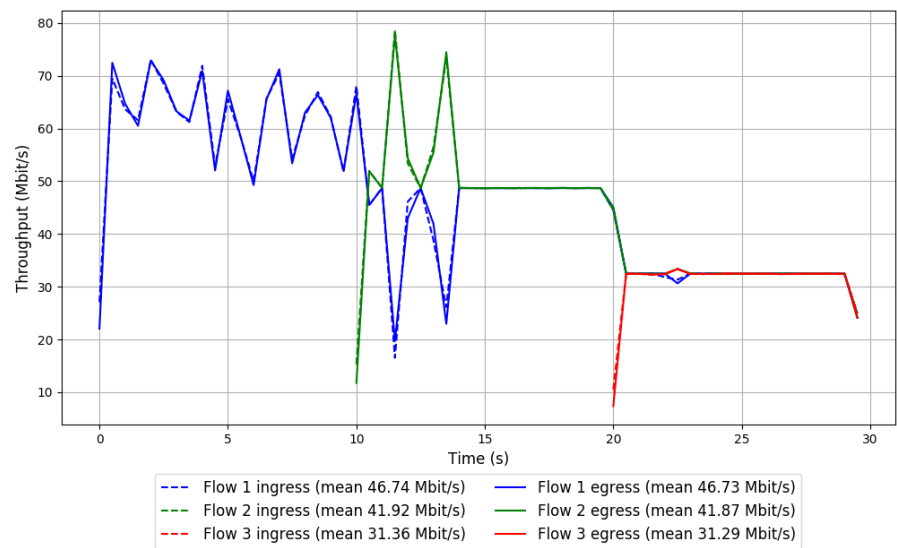
-- Flow 3:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 48.095 ms

Loss rate: 0.62%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-03 17:56:04

End at: 2018-04-03 17:56:34

Local clock offset: 4.64 ms

Remote clock offset: 1.278 ms

Below is generated by plot.py at 2018-04-04 00:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.76 Mbit/s

95th percentile per-packet one-way delay: 47.183 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 47.133 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.89 Mbit/s

95th percentile per-packet one-way delay: 47.203 ms

Loss rate: 0.23%

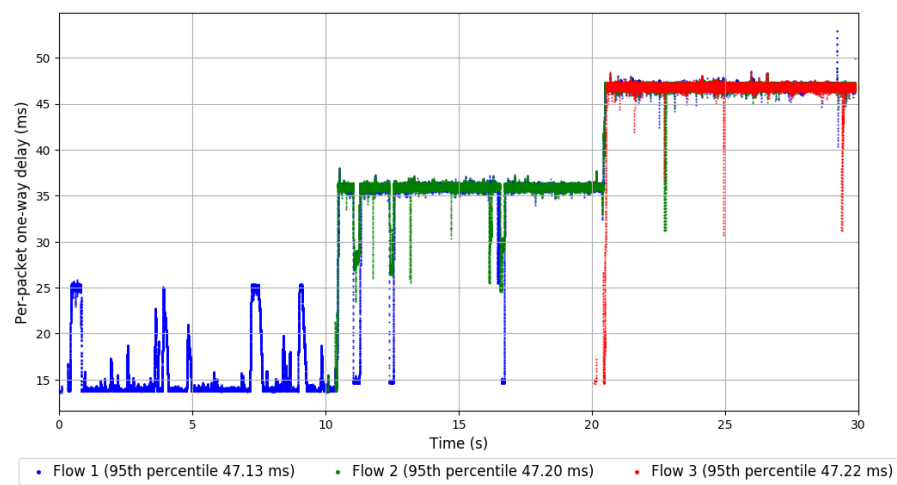
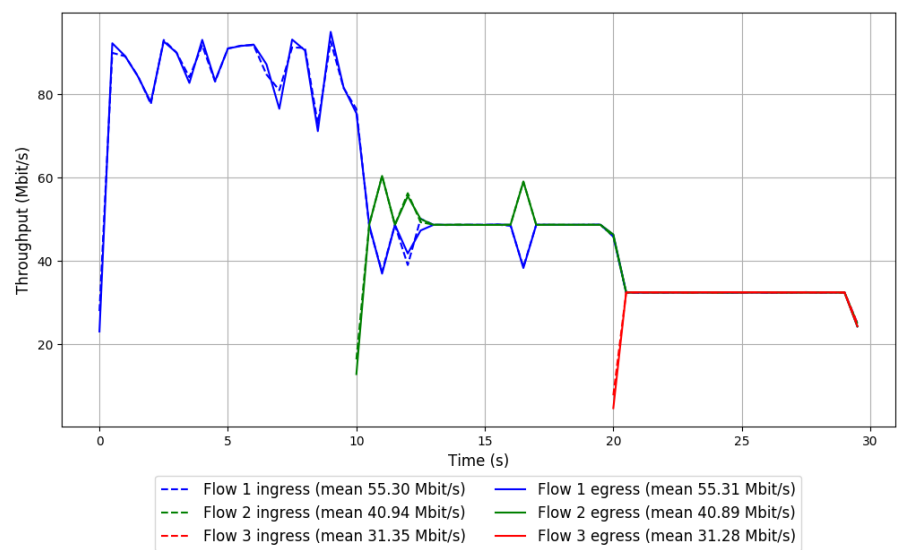
-- Flow 3:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 47.217 ms

Loss rate: 0.60%

Run 3: Report of QUIC Cubic — Data Link

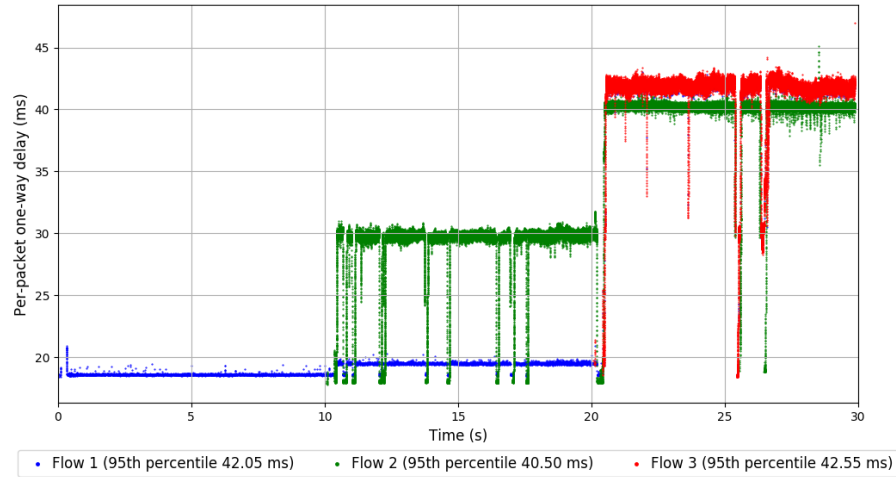
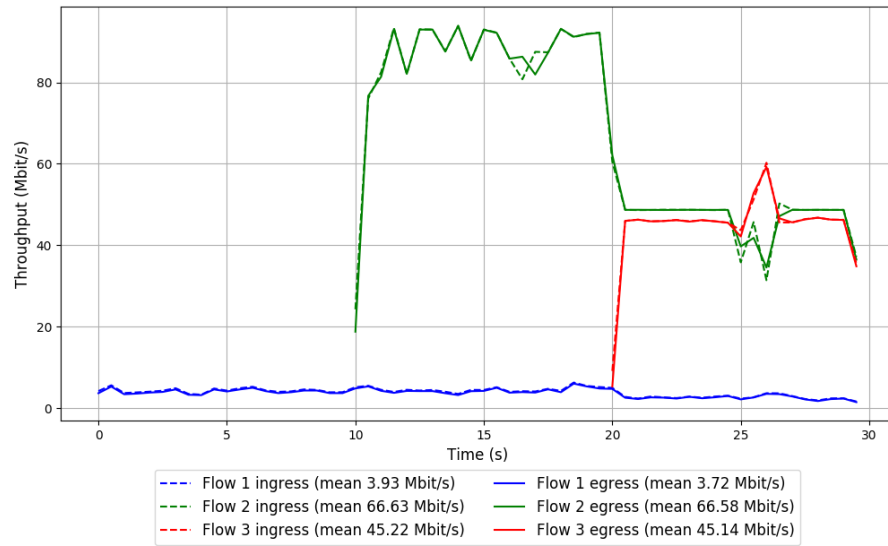


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-03 18:32:29
End at: 2018-04-03 18:32:59
Local clock offset: 3.859 ms
Remote clock offset: -4.386 ms

Below is generated by plot.py at 2018-04-04 00:27:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.81 Mbit/s
95th percentile per-packet one-way delay: 42.234 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 42.055 ms
Loss rate: 5.39%
-- Flow 2:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 40.502 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 45.14 Mbit/s
95th percentile per-packet one-way delay: 42.550 ms
Loss rate: 0.52%

Run 4: Report of QUIC Cubic — Data Link

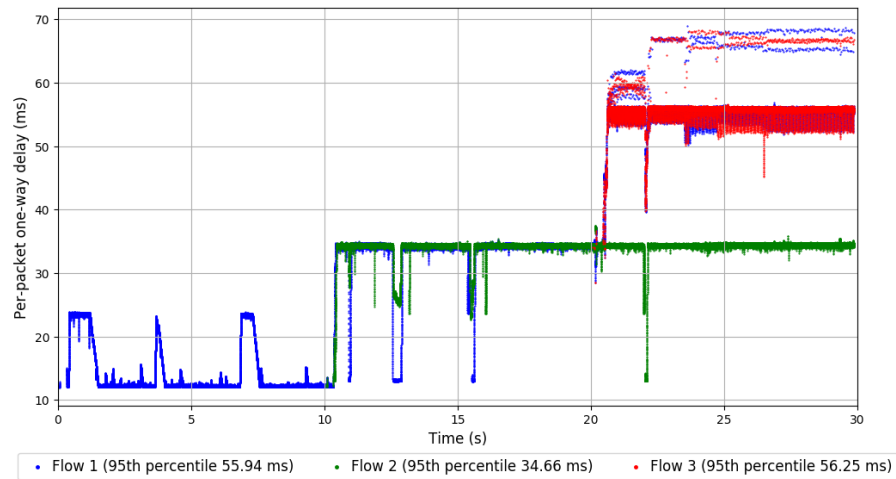
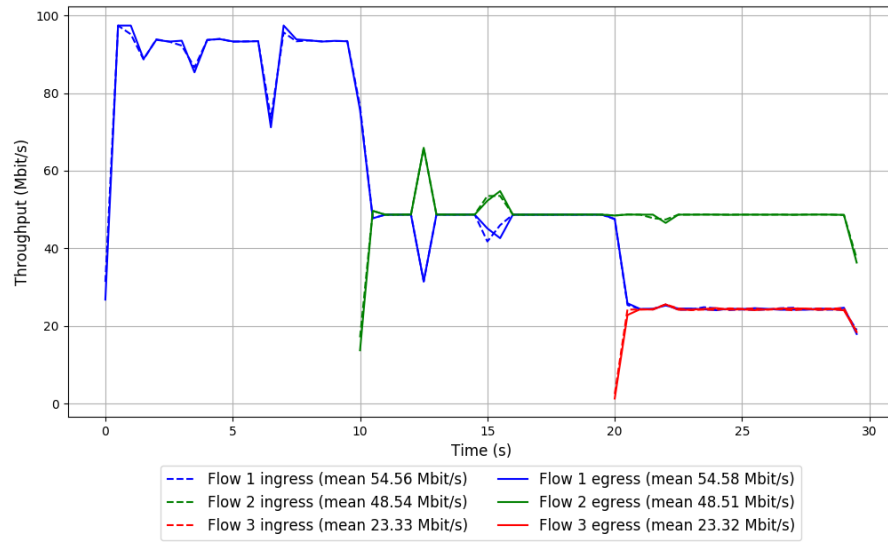


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-03 18:53:22
End at: 2018-04-03 18:53:52
Local clock offset: 2.091 ms
Remote clock offset: -4.112 ms

Below is generated by plot.py at 2018-04-04 00:28:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 55.982 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 54.58 Mbit/s
95th percentile per-packet one-way delay: 55.937 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 34.658 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 56.250 ms
Loss rate: 0.73%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-03 19:14:21

End at: 2018-04-03 19:14:51

Local clock offset: 4.453 ms

Remote clock offset: 3.065 ms

Below is generated by plot.py at 2018-04-04 00:28:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 57.908 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 57.869 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 58.043 ms

Loss rate: 0.23%

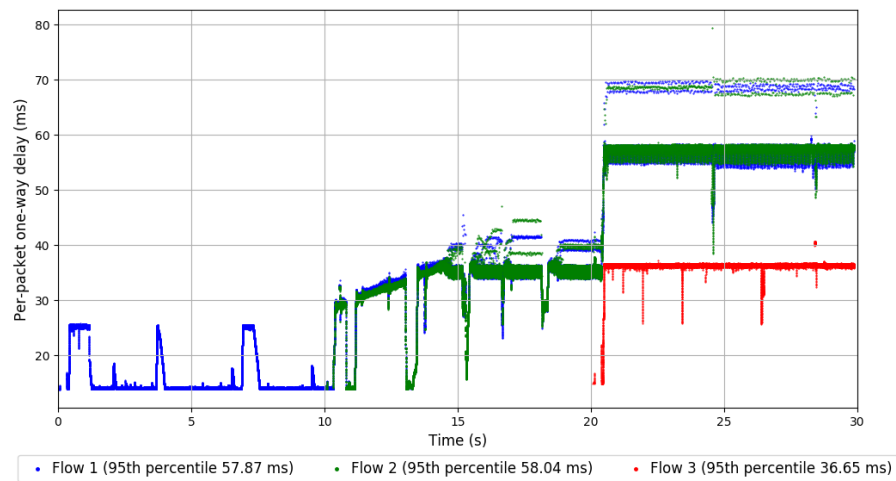
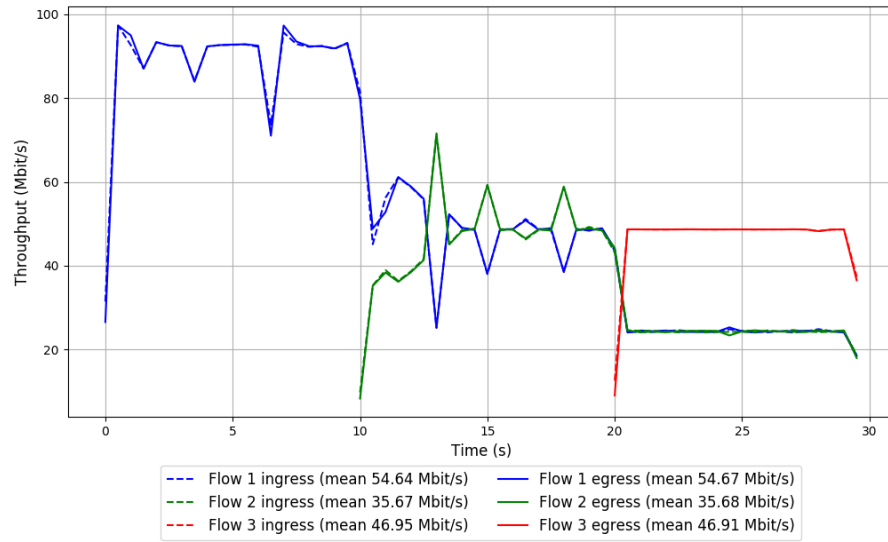
-- Flow 3:

Average throughput: 46.91 Mbit/s

95th percentile per-packet one-way delay: 36.654 ms

Loss rate: 0.48%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-03 19:35:18

End at: 2018-04-03 19:35:48

Local clock offset: 2.579 ms

Remote clock offset: 2.165 ms

Below is generated by plot.py at 2018-04-04 00:28:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 46.564 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 51.94 Mbit/s

95th percentile per-packet one-way delay: 46.448 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 40.81 Mbit/s

95th percentile per-packet one-way delay: 46.561 ms

Loss rate: 0.23%

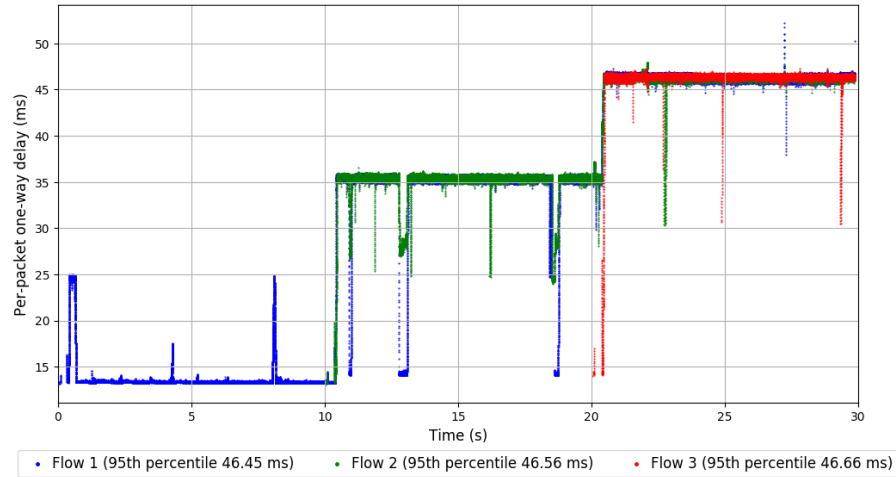
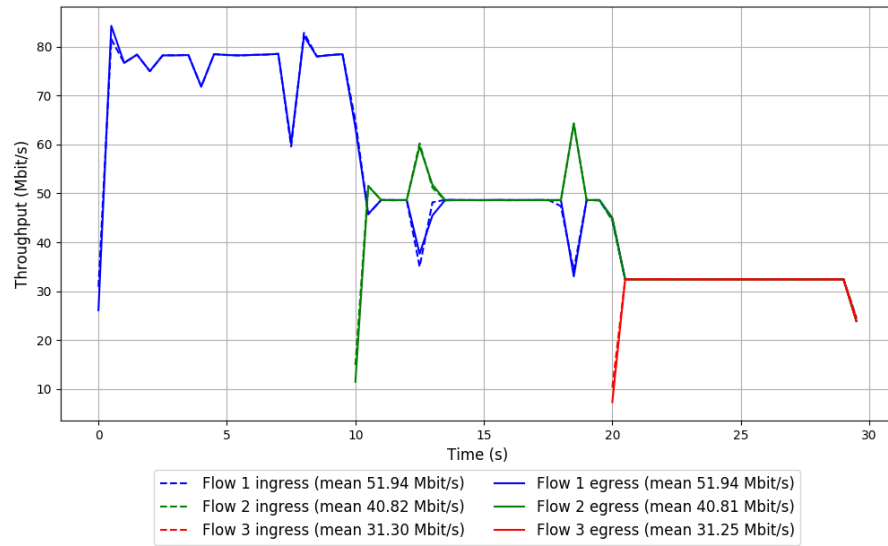
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 46.657 ms

Loss rate: 0.59%

Run 7: Report of QUIC Cubic — Data Link

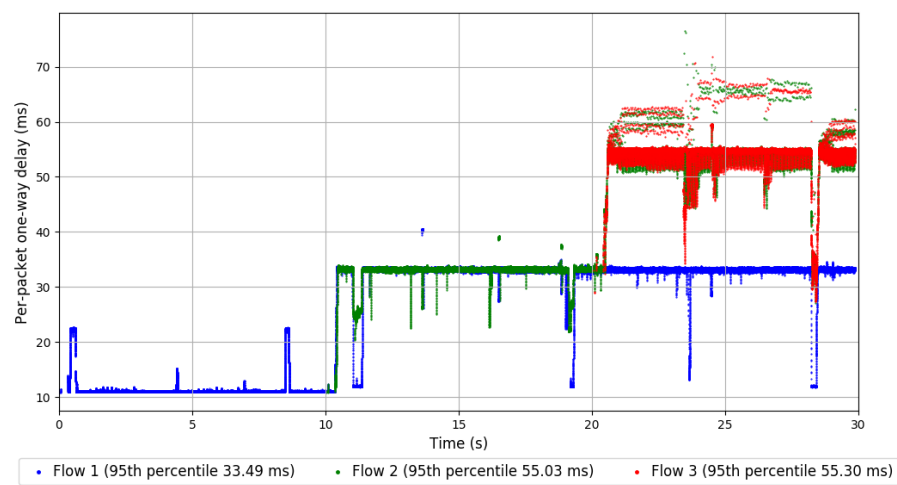
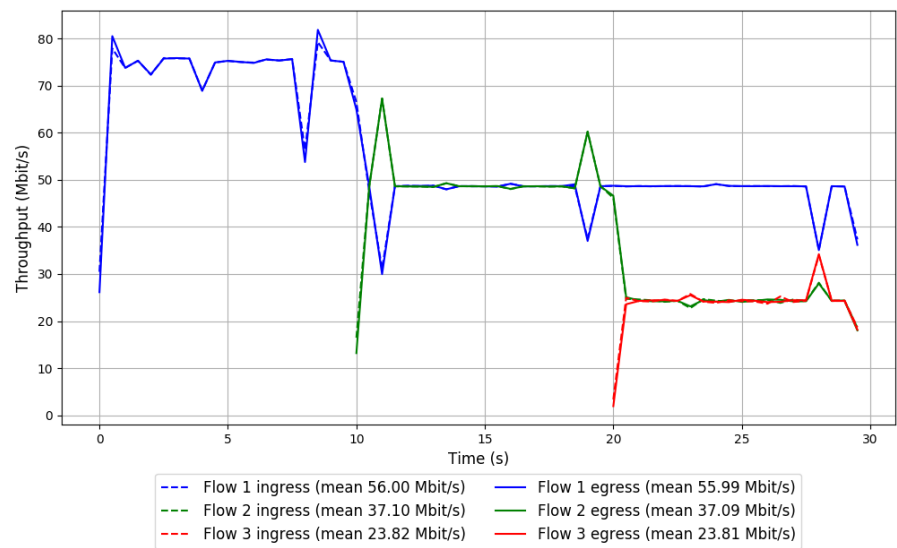


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-03 19:56:14
End at: 2018-04-03 19:56:44
Local clock offset: -0.684 ms
Remote clock offset: -1.779 ms

Below is generated by plot.py at 2018-04-04 00:28:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 54.898 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 33.494 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 37.09 Mbit/s
95th percentile per-packet one-way delay: 55.035 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 55.296 ms
Loss rate: 0.69%

Run 8: Report of QUIC Cubic — Data Link

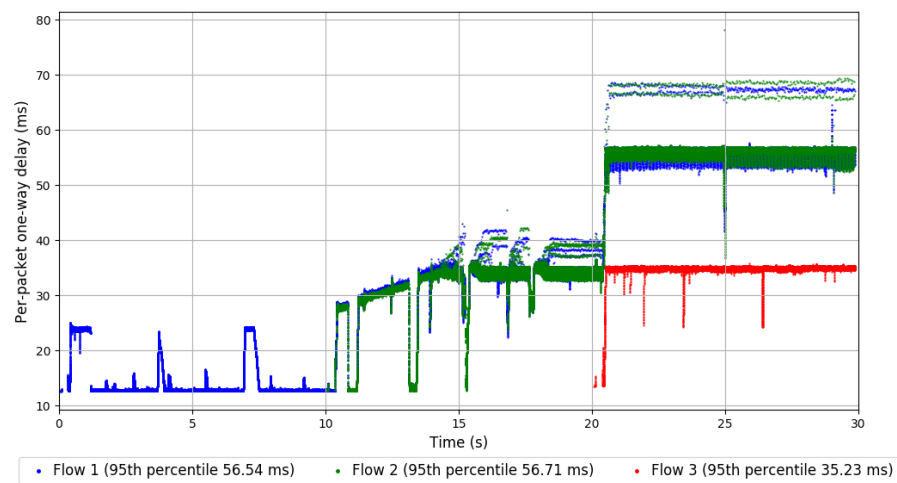
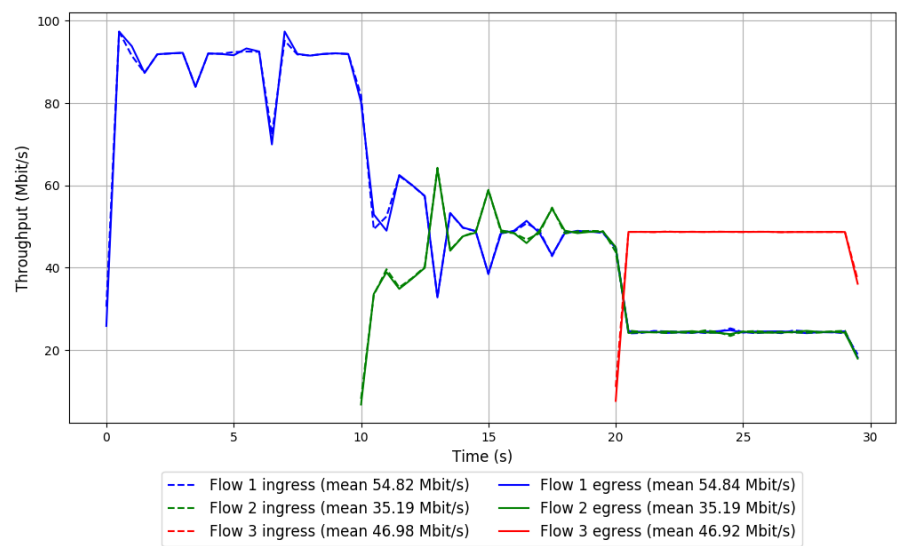


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-03 20:17:11
End at: 2018-04-03 20:17:41
Local clock offset: -5.037 ms
Remote clock offset: -4.689 ms

Below is generated by plot.py at 2018-04-04 00:28:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 56.583 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 54.84 Mbit/s
95th percentile per-packet one-way delay: 56.542 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 56.712 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 35.226 ms
Loss rate: 0.47%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-03 20:38:07

End at: 2018-04-03 20:38:37

Local clock offset: 0.944 ms

Remote clock offset: 1.216 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 58.461 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 62.69 Mbit/s

95th percentile per-packet one-way delay: 36.924 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 37.14 Mbit/s

95th percentile per-packet one-way delay: 58.579 ms

Loss rate: 0.23%

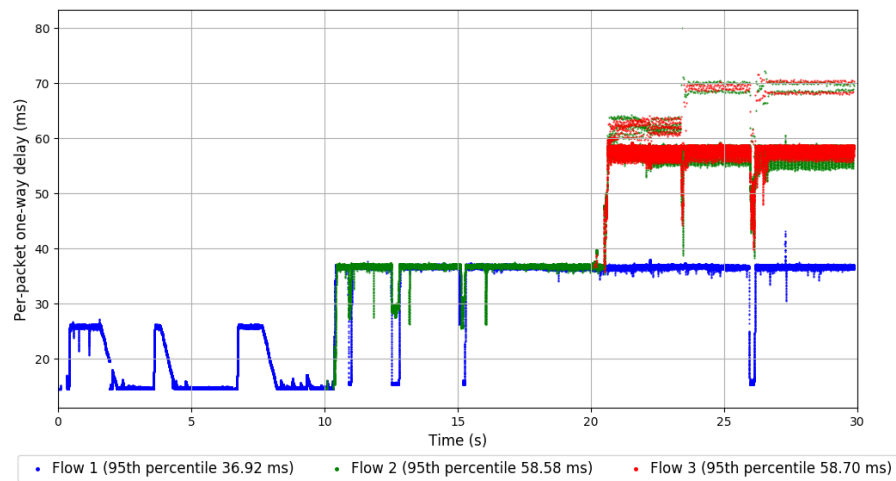
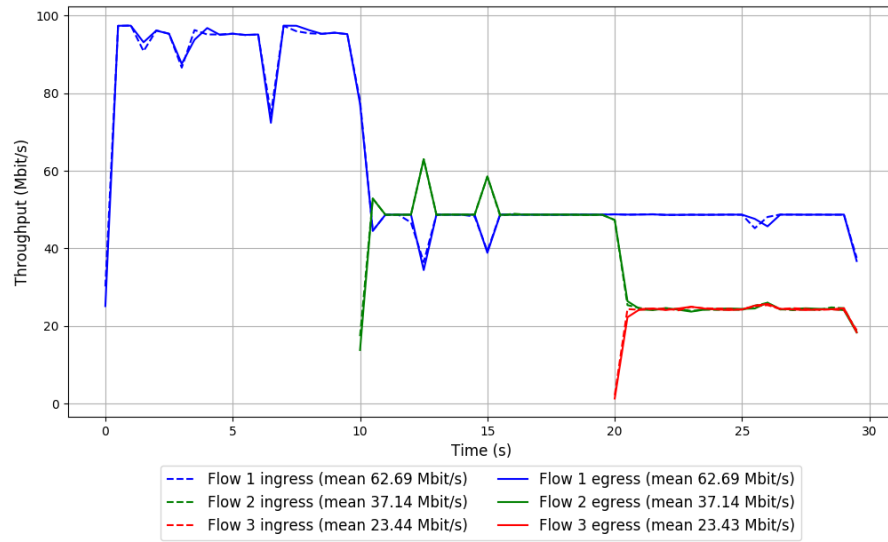
-- Flow 3:

Average throughput: 23.43 Mbit/s

95th percentile per-packet one-way delay: 58.698 ms

Loss rate: 0.68%

Run 10: Report of QUIC Cubic — Data Link

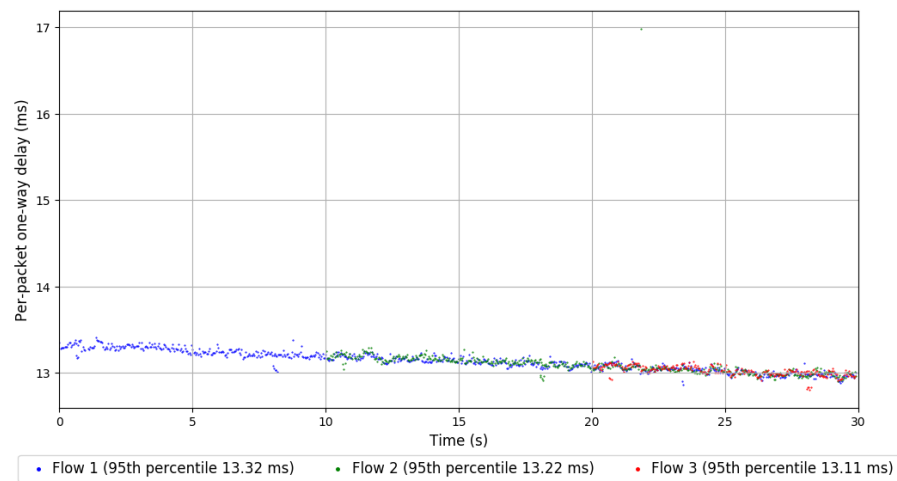
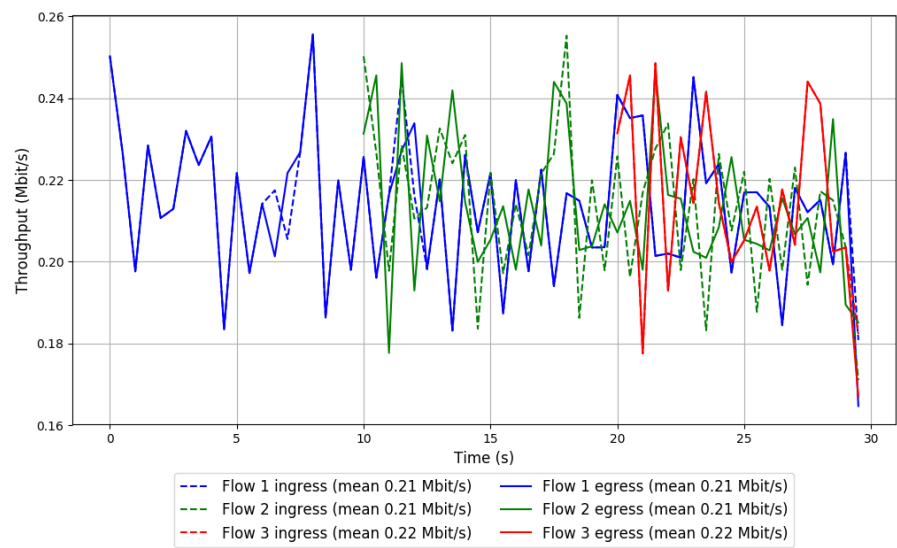


```
Run 1: Statistics of SReAM

Start at: 2018-04-03 17:14:30
End at: 2018-04-03 17:15:00
Local clock offset: 3.836 ms
Remote clock offset: 7.707 ms

# Below is generated by plot.py at 2018-04-04 00:29:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 13.294 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.321 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.218 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.109 ms
Loss rate: 0.35%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-04-03 17:35:55

End at: 2018-04-03 17:36:25

Local clock offset: 4.098 ms

Remote clock offset: 1.677 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.296 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

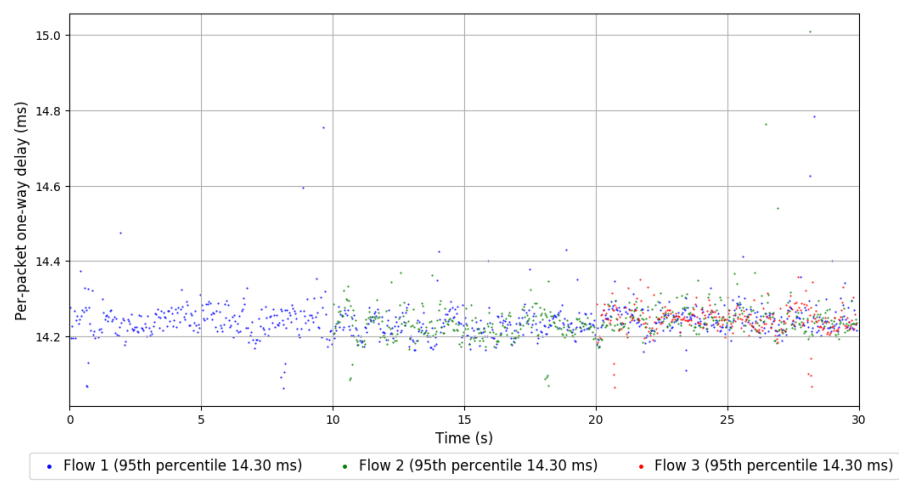
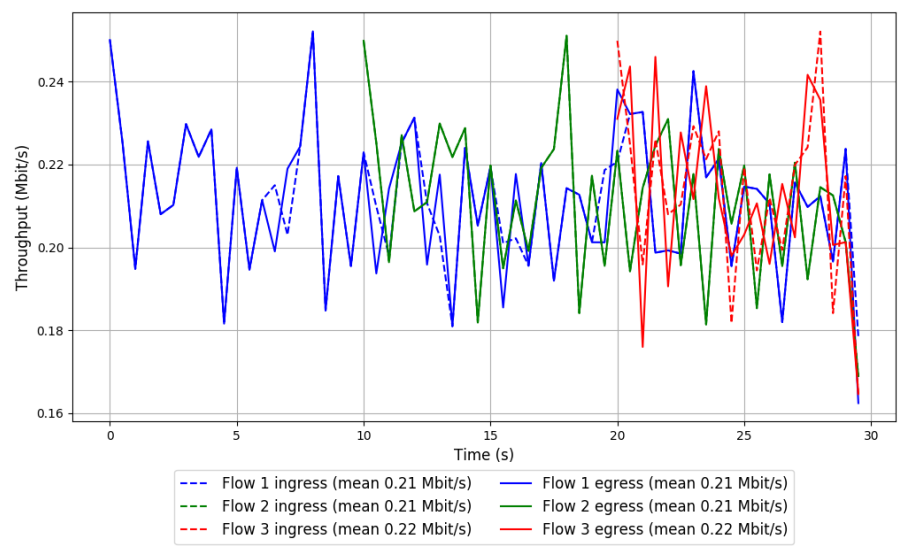
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 14.303 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-03 17:57:16

End at: 2018-04-03 17:57:46

Local clock offset: 4.453 ms

Remote clock offset: 1.087 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 13.697 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.701 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.693 ms

Loss rate: 0.00%

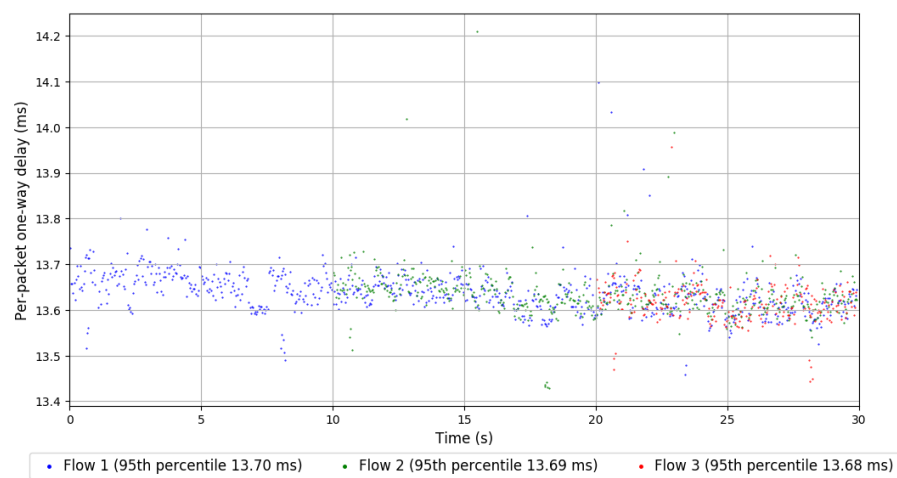
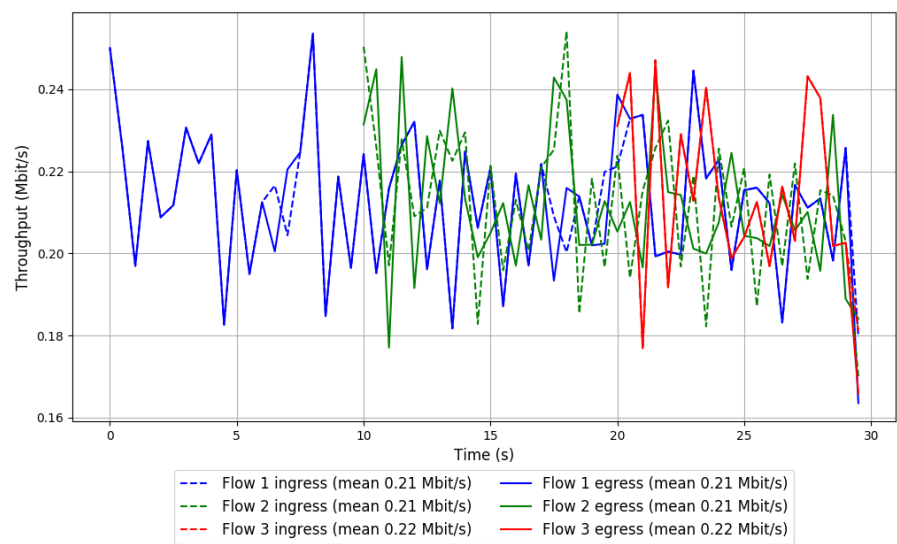
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 13.677 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link

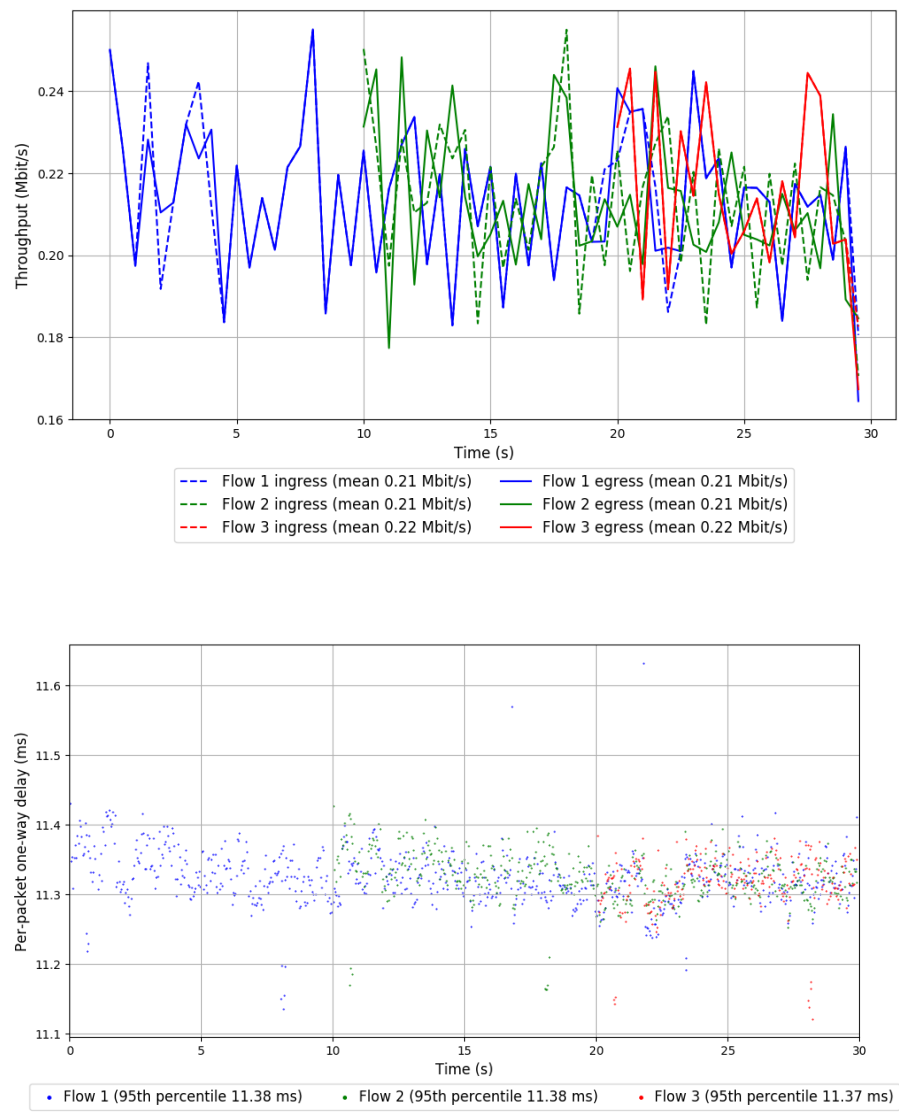


Run 4: Statistics of SReAM

Start at: 2018-04-03 18:33:38
End at: 2018-04-03 18:34:08
Local clock offset: 2.081 ms
Remote clock offset: -1.795 ms

Below is generated by plot.py at 2018-04-04 00:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 11.381 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.385 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.381 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 11.367 ms
Loss rate: 0.35%

Run 4: Report of SReAM — Data Link

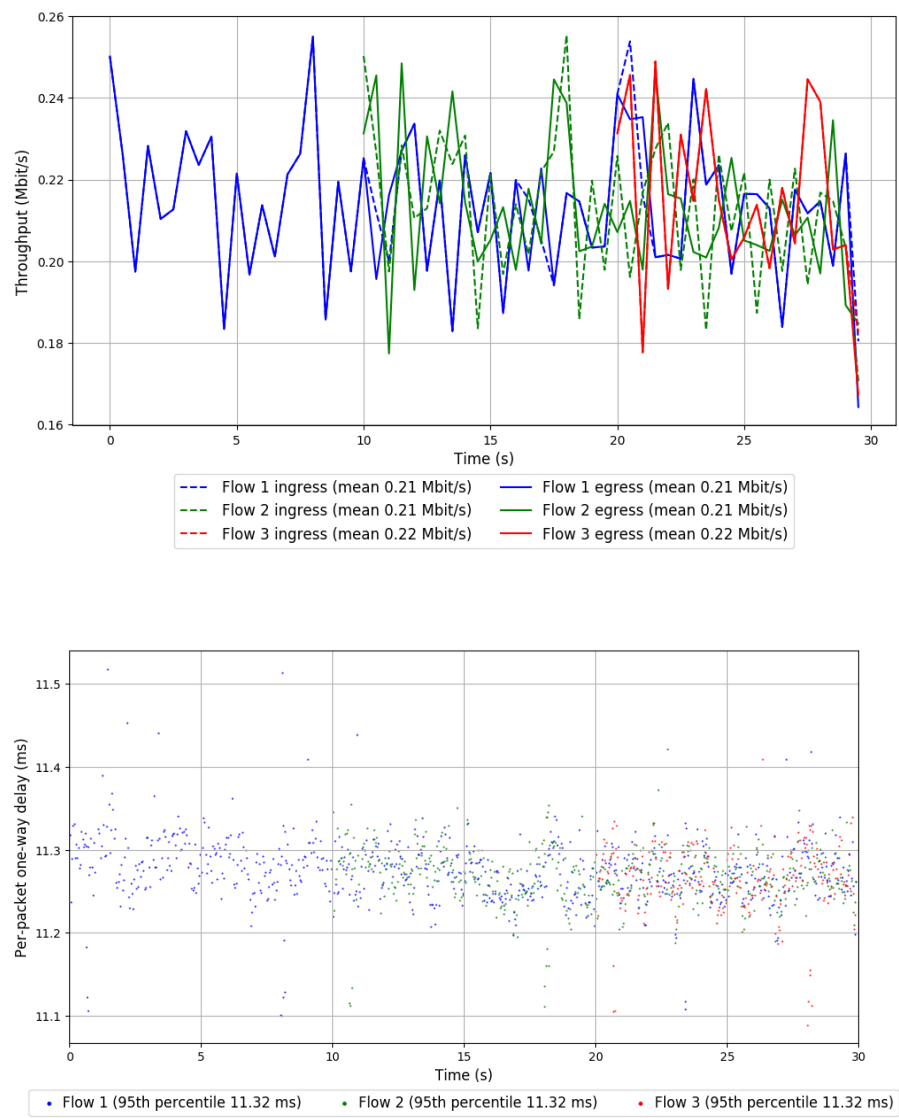


Run 5: Statistics of SReAM

Start at: 2018-04-03 18:54:32
End at: 2018-04-03 18:55:02
Local clock offset: 1.395 ms
Remote clock offset: -3.989 ms

Below is generated by plot.py at 2018-04-04 00:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 11.324 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.325 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.321 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 11.322 ms
Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-03 19:15:31

End at: 2018-04-03 19:16:01

Local clock offset: 2.207 ms

Remote clock offset: 3.787 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 11.370 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.367 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.366 ms

Loss rate: 0.00%

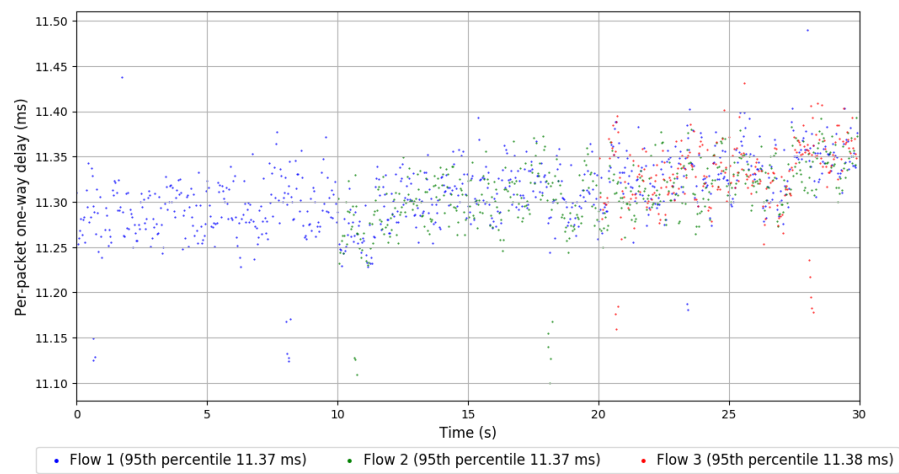
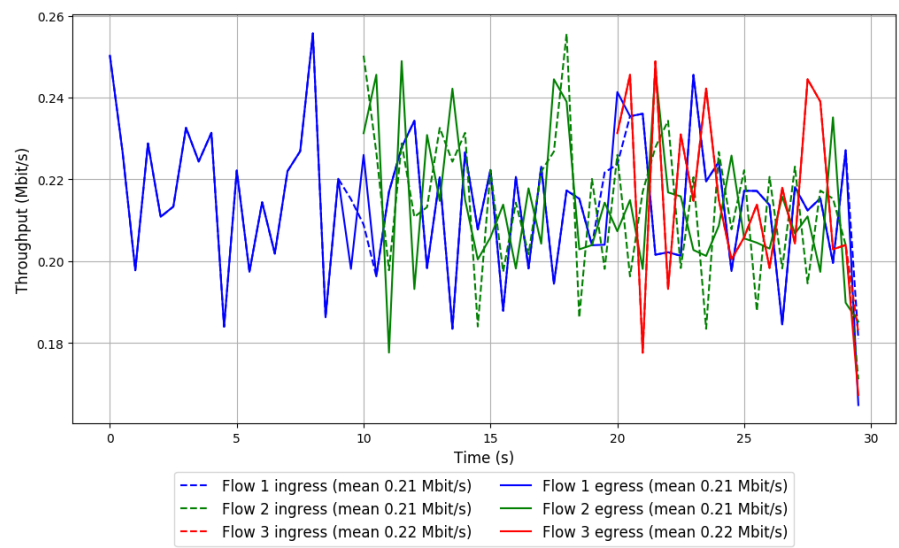
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 11.385 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-04-03 19:36:27

End at: 2018-04-03 19:36:58

Local clock offset: 4.172 ms

Remote clock offset: 1.897 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 14.792 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.814 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.756 ms

Loss rate: 0.00%

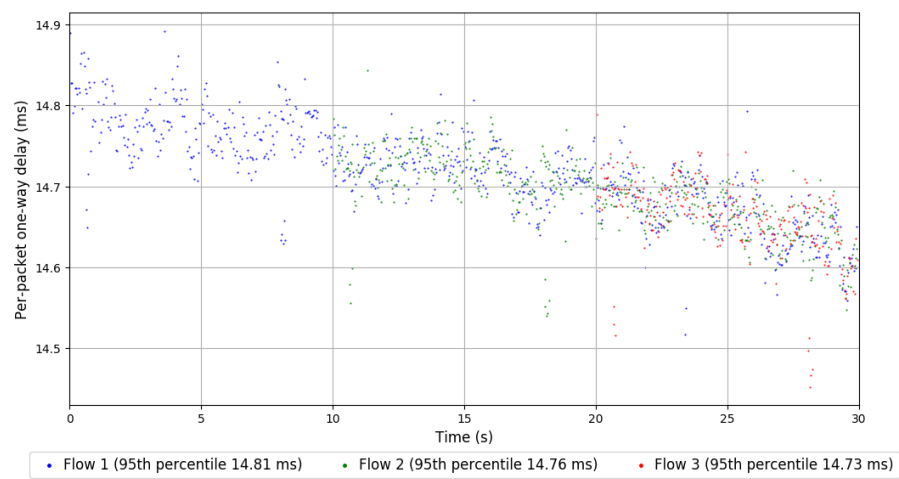
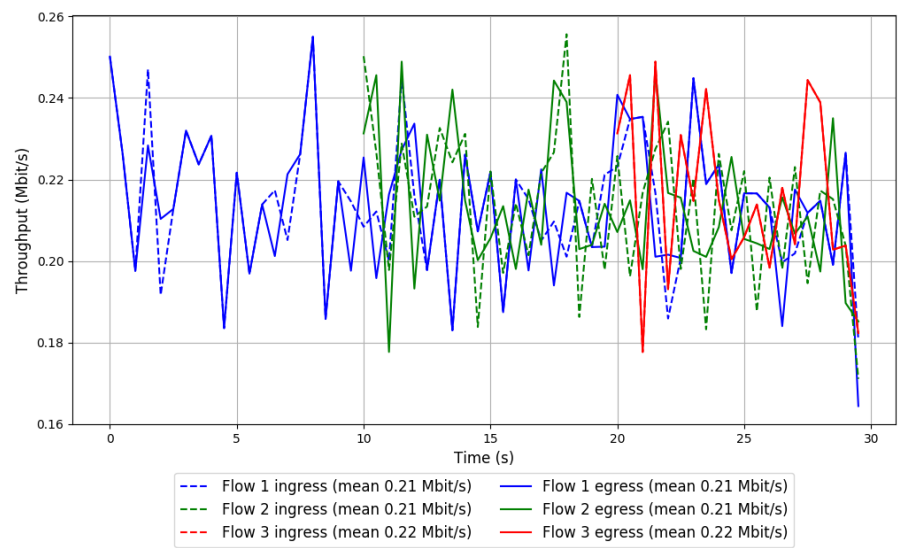
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 14.726 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

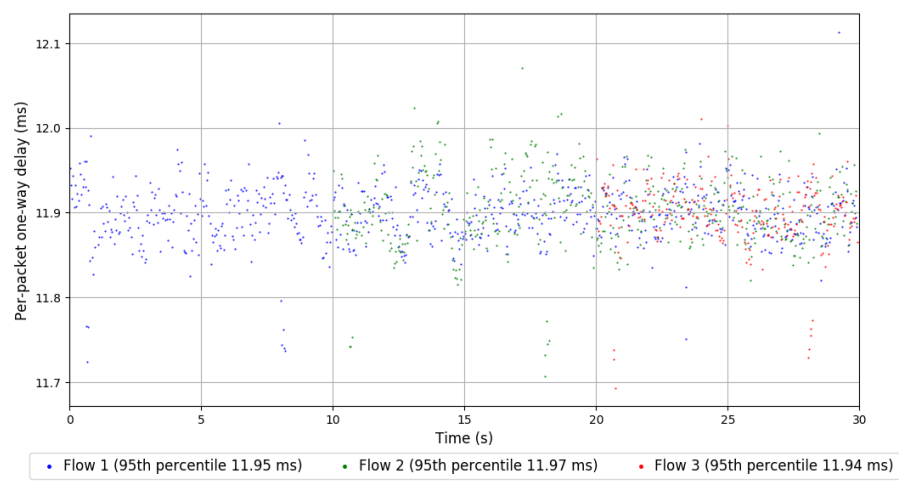
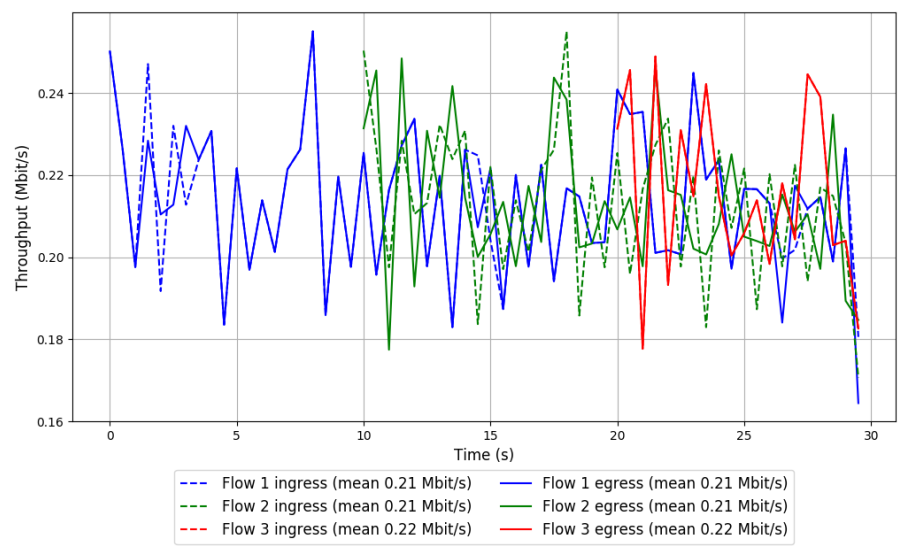


Run 8: Statistics of SReAM

Start at: 2018-04-03 19:57:24
End at: 2018-04-03 19:57:54
Local clock offset: -0.164 ms
Remote clock offset: -2.152 ms

Below is generated by plot.py at 2018-04-04 00:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 11.956 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.947 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.970 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 11.944 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

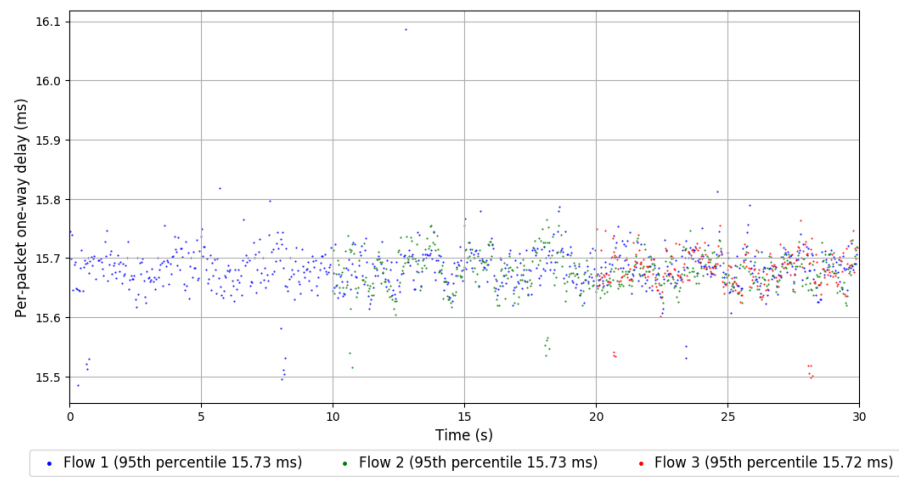
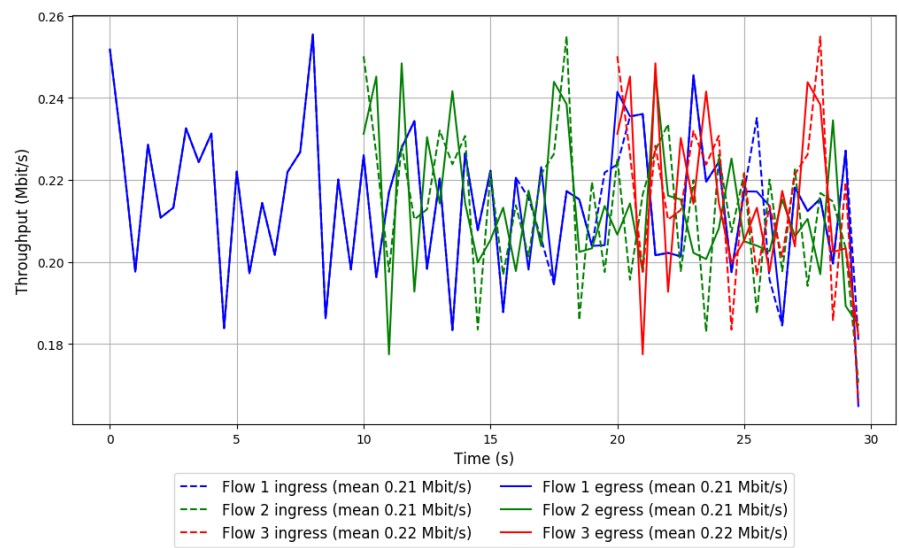


Run 9: Statistics of SReAM

Start at: 2018-04-03 20:18:21
End at: 2018-04-03 20:18:51
Local clock offset: 2.242 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-04-04 00:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 15.729 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 15.732 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 15.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 15.725 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-03 20:39:17

End at: 2018-04-03 20:39:47

Local clock offset: -1.173 ms

Remote clock offset: 2.658 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 10.723 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 10.742 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 10.695 ms

Loss rate: 0.00%

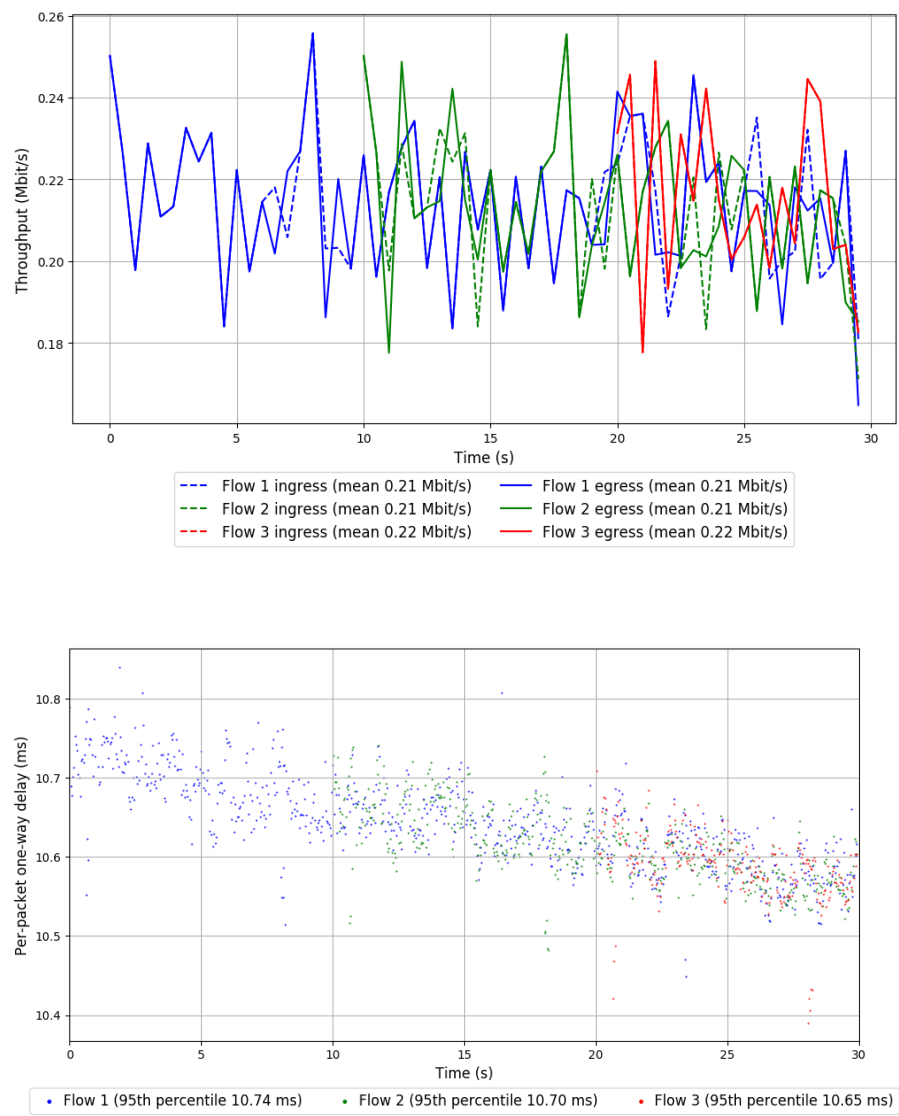
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 10.648 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-03 17:16:50

End at: 2018-04-03 17:17:20

Local clock offset: 2.054 ms

Remote clock offset: 6.245 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 12.759 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 12.760 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 12.971 ms

Loss rate: 0.00%

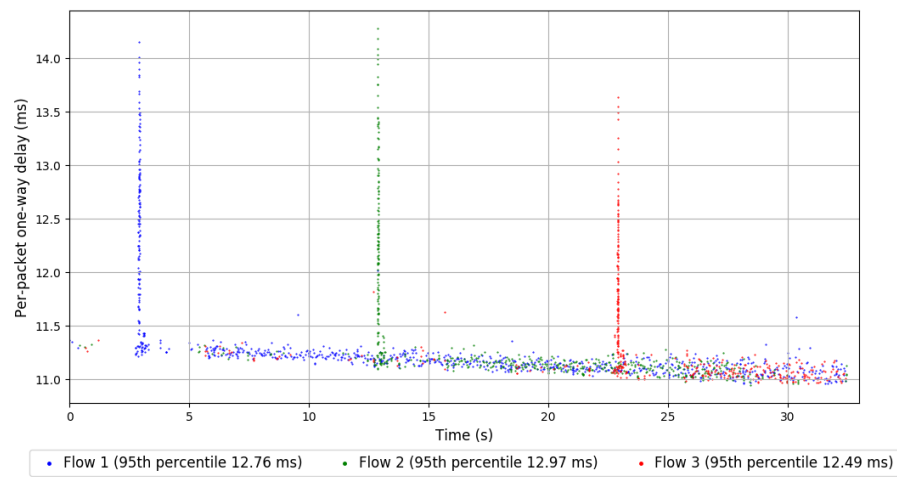
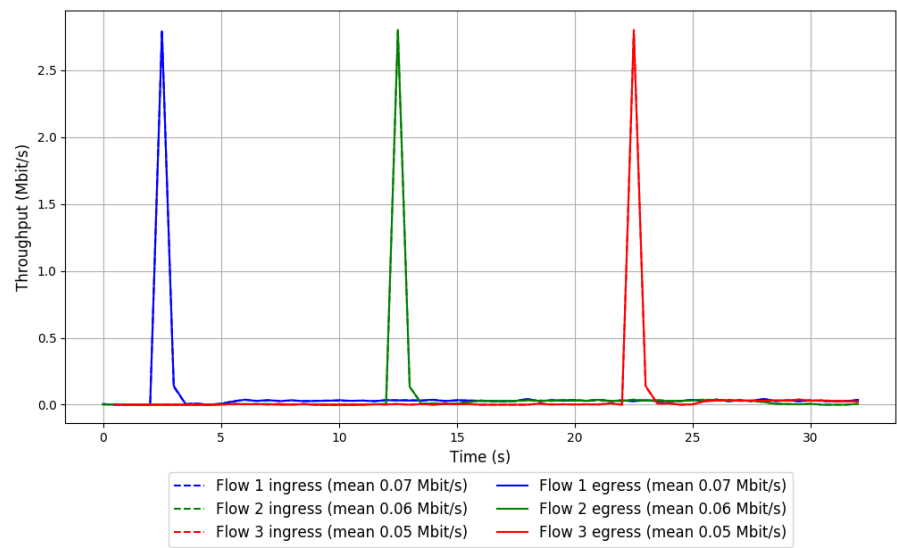
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 12.491 ms

Loss rate: 0.08%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-03 17:38:14

End at: 2018-04-03 17:38:44

Local clock offset: 2.5 ms

Remote clock offset: 2.136 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 13.740 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 13.727 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 13.910 ms

Loss rate: 0.00%

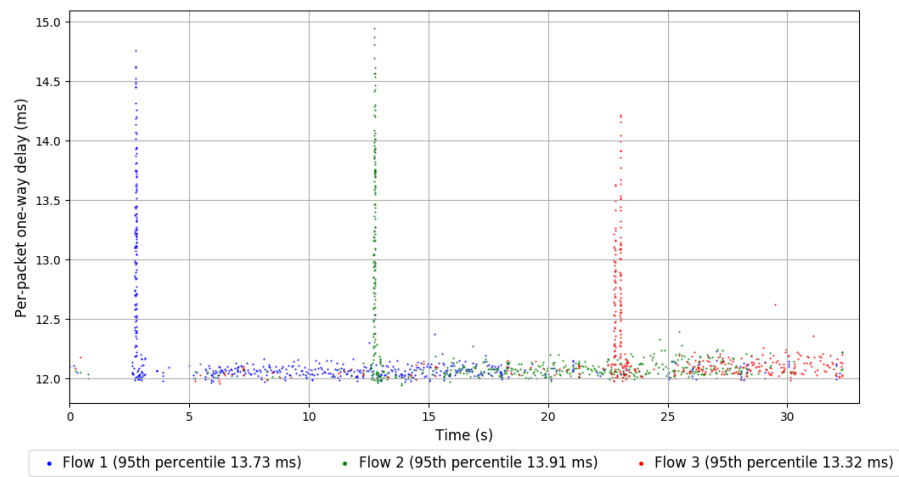
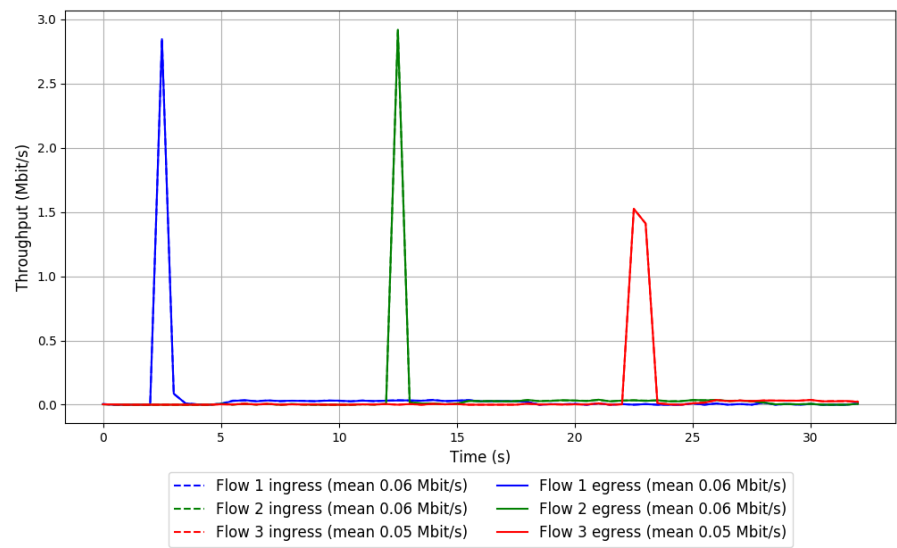
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 13.323 ms

Loss rate: 0.08%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-03 17:59:35

End at: 2018-04-03 18:00:05

Local clock offset: 3.872 ms

Remote clock offset: 0.945 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 14.734 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.698 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 14.726 ms

Loss rate: 0.00%

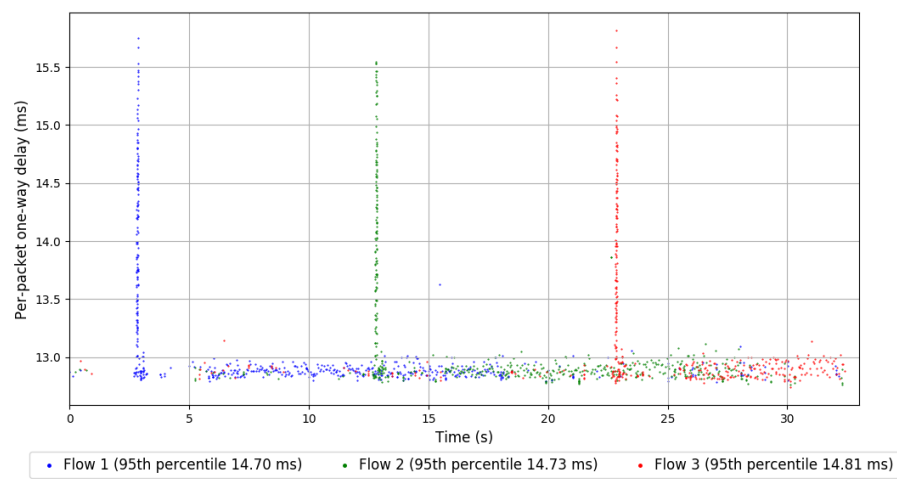
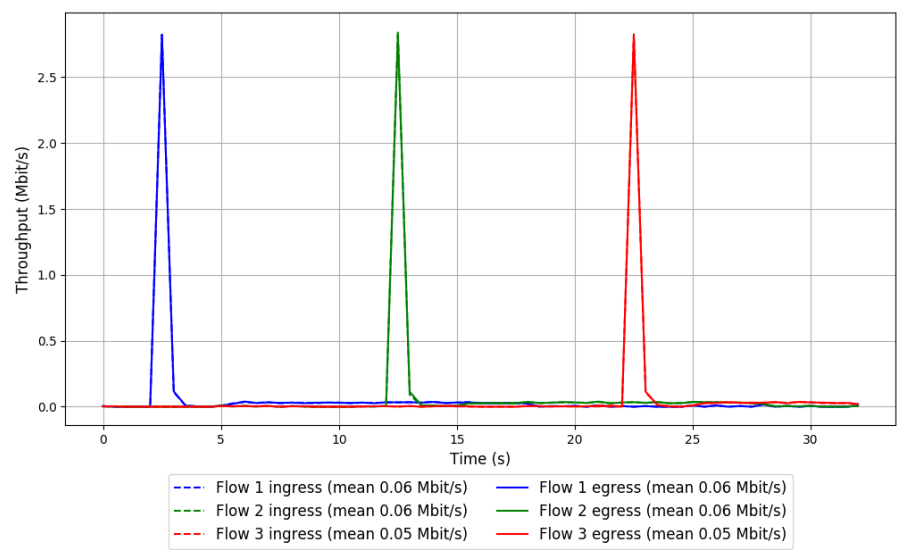
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.812 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

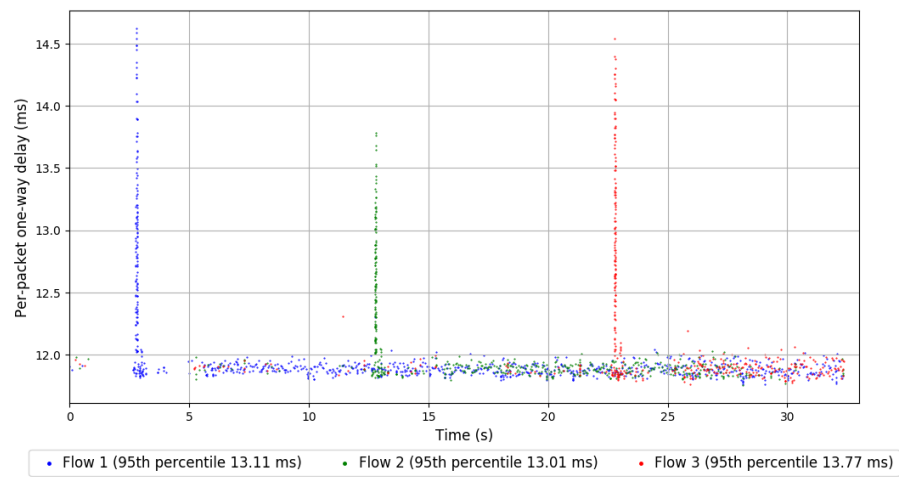
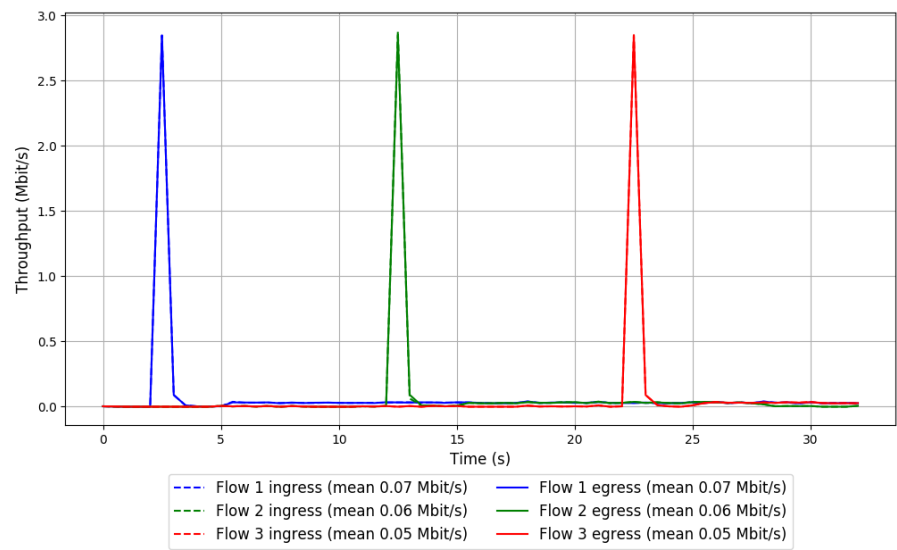


Run 4: Statistics of WebRTC media

Start at: 2018-04-03 18:35:54
End at: 2018-04-03 18:36:24
Local clock offset: 3.429 ms
Remote clock offset: -1.341 ms

Below is generated by plot.py at 2018-04-04 00:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 13.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 13.110 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 13.011 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 13.769 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

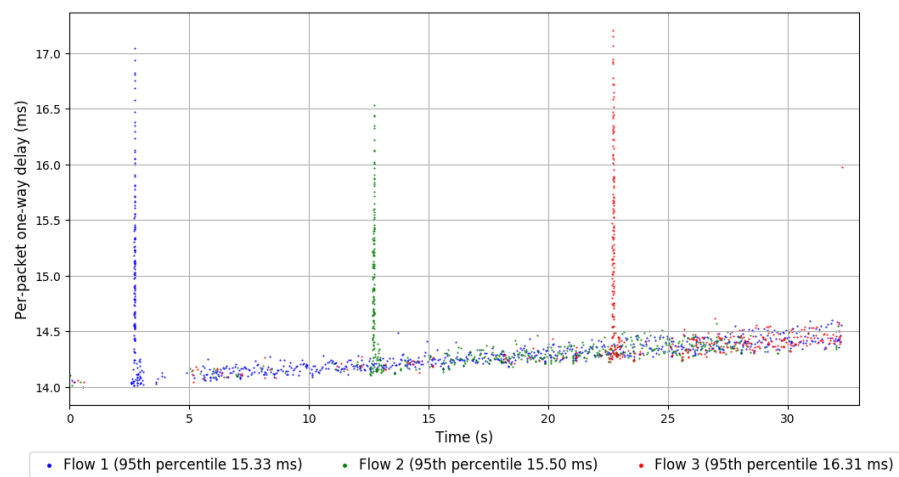
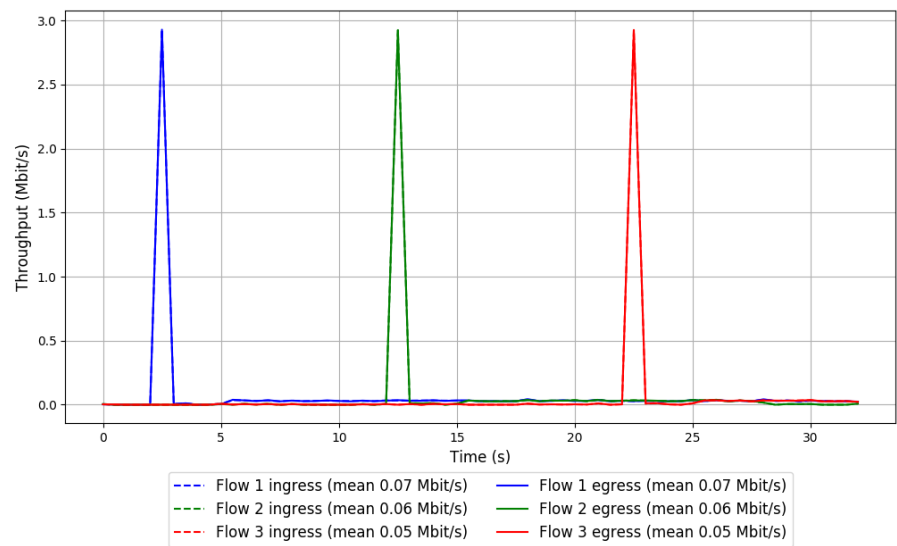


Run 5: Statistics of WebRTC media

Start at: 2018-04-03 18:56:50
End at: 2018-04-03 18:57:20
Local clock offset: 4.593 ms
Remote clock offset: -3.402 ms

Below is generated by plot.py at 2018-04-04 00:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 15.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 15.330 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 15.500 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 16.306 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-03 19:17:47

End at: 2018-04-03 19:18:17

Local clock offset: 4.767 ms

Remote clock offset: 4.49 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 14.974 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 14.787 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 15.121 ms

Loss rate: 0.04%

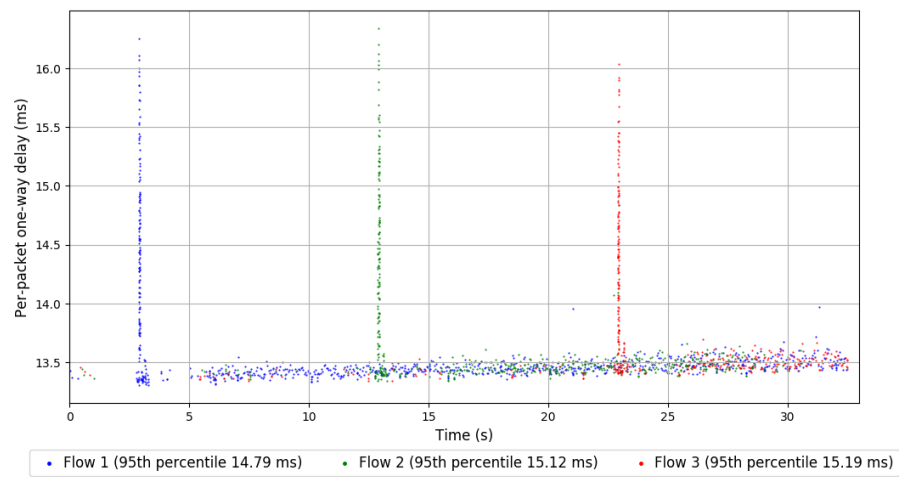
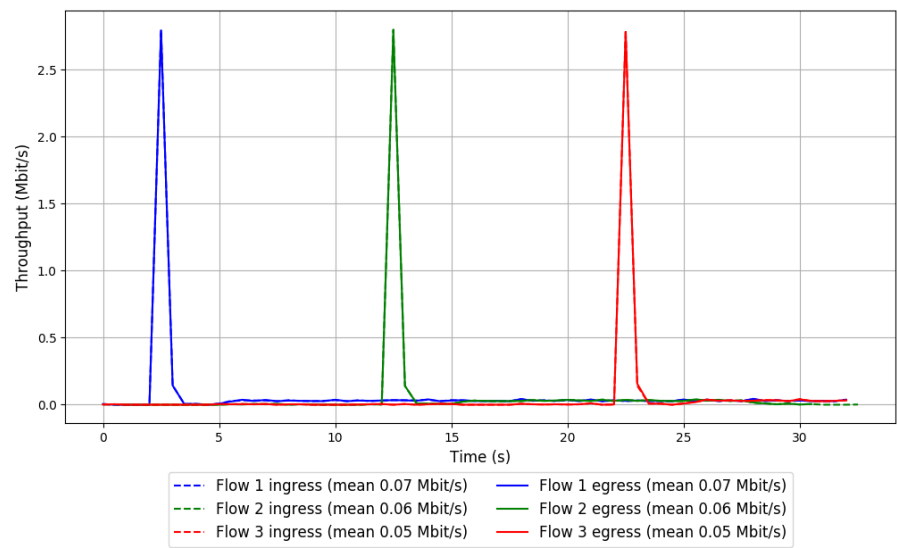
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 15.190 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-03 19:38:44

End at: 2018-04-03 19:39:14

Local clock offset: 0.565 ms

Remote clock offset: 1.857 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 12.020 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 11.891 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 12.082 ms

Loss rate: 0.00%

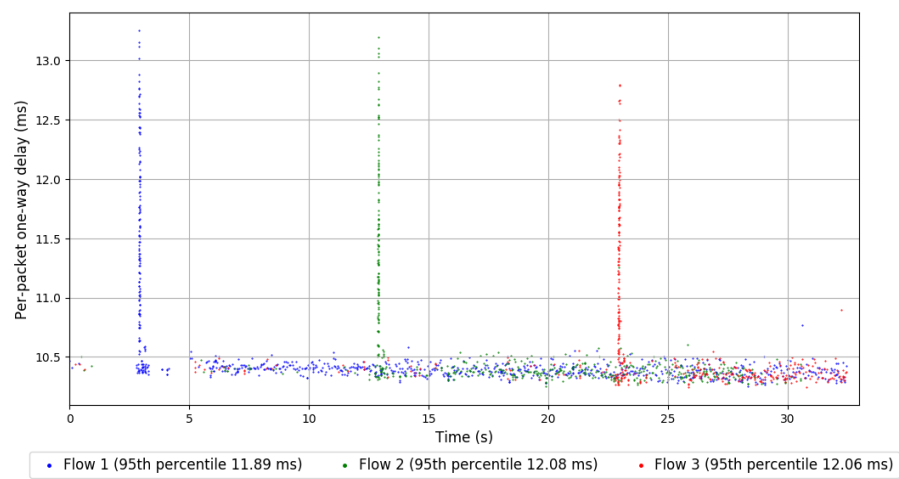
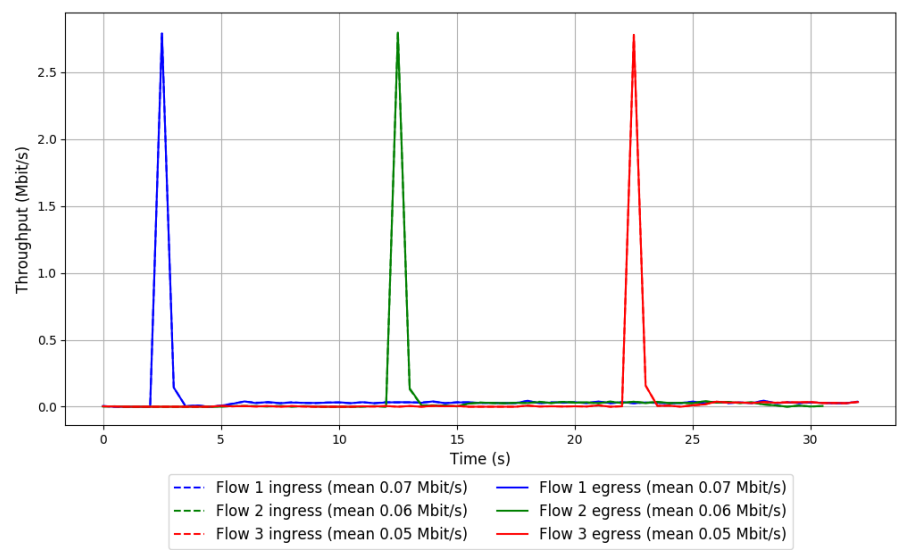
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 12.059 ms

Loss rate: 0.08%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-03 19:59:40

End at: 2018-04-03 20:00:10

Local clock offset: -1.071 ms

Remote clock offset: -1.59 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 11.868 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 12.058 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 11.913 ms

Loss rate: 0.04%

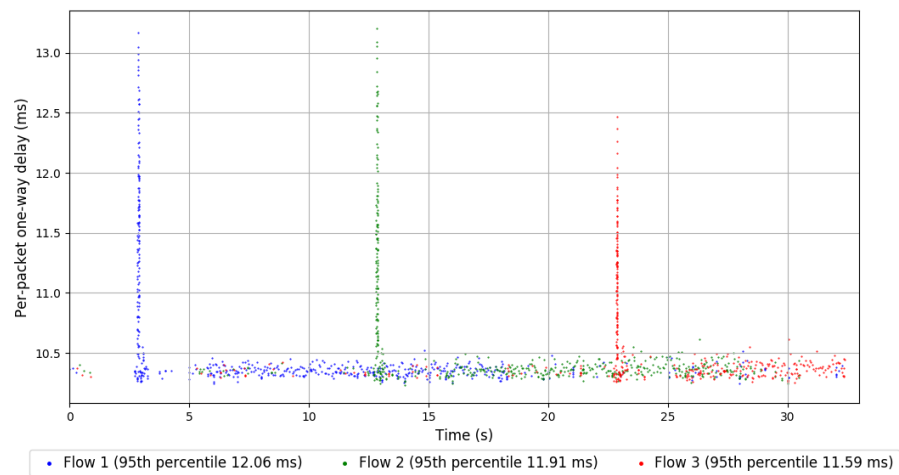
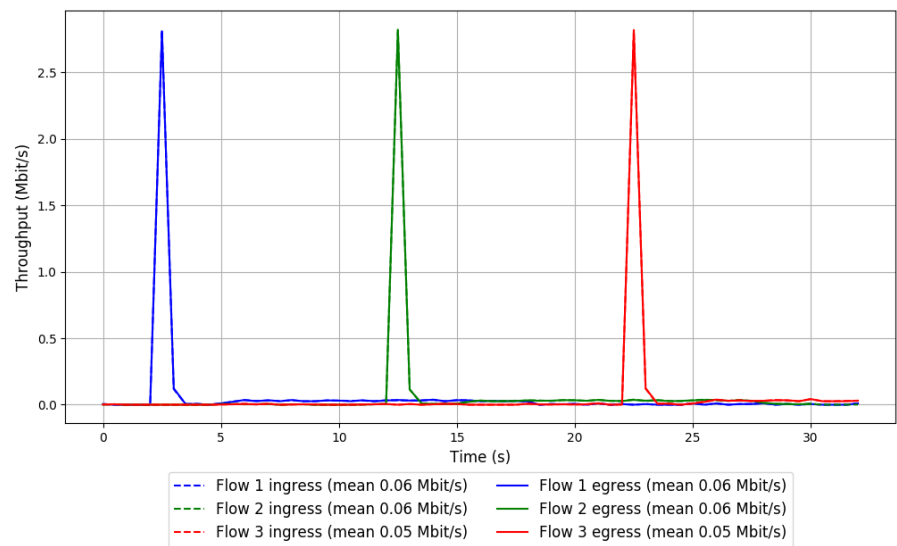
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 11.589 ms

Loss rate: 0.08%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-03 20:20:37

End at: 2018-04-03 20:21:07

Local clock offset: 1.972 ms

Remote clock offset: 1.437 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 15.350 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 15.015 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 15.477 ms

Loss rate: 0.00%

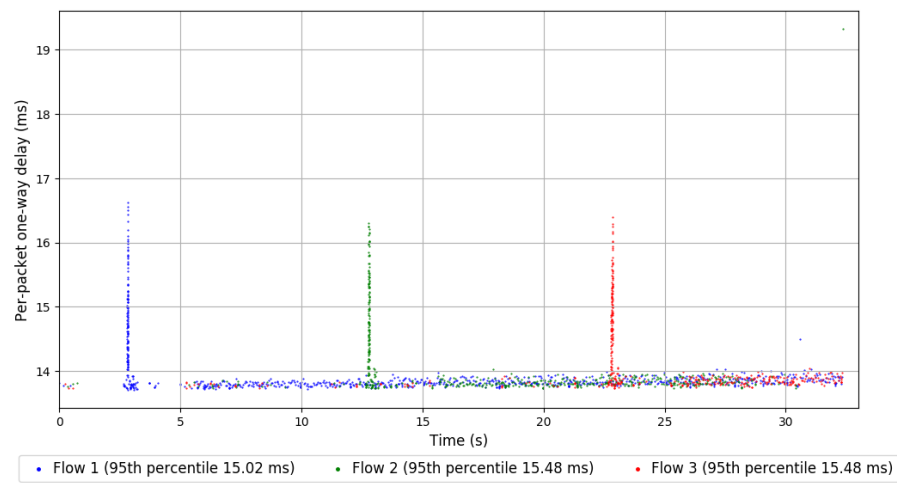
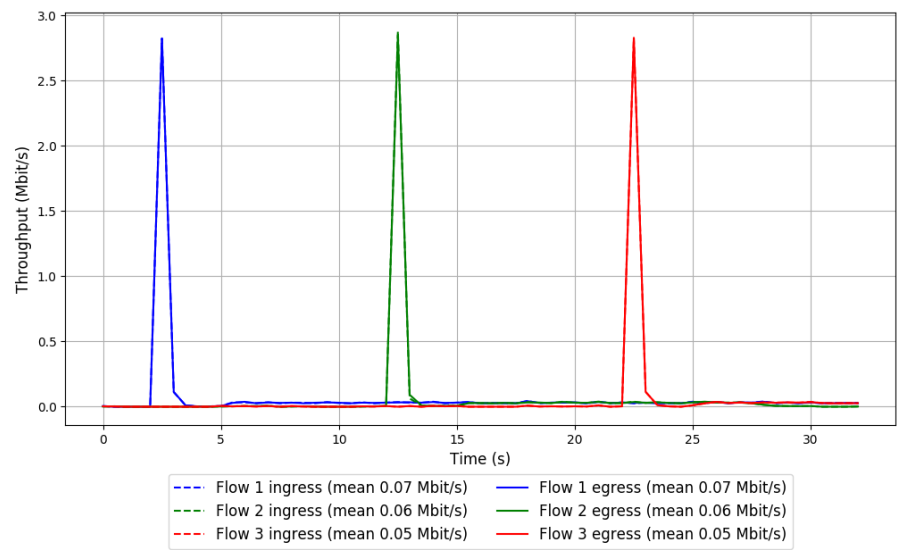
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 15.482 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-03 20:41:34

End at: 2018-04-03 20:42:04

Local clock offset: 2.483 ms

Remote clock offset: 1.456 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 16.468 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 16.446 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 16.360 ms

Loss rate: 0.00%

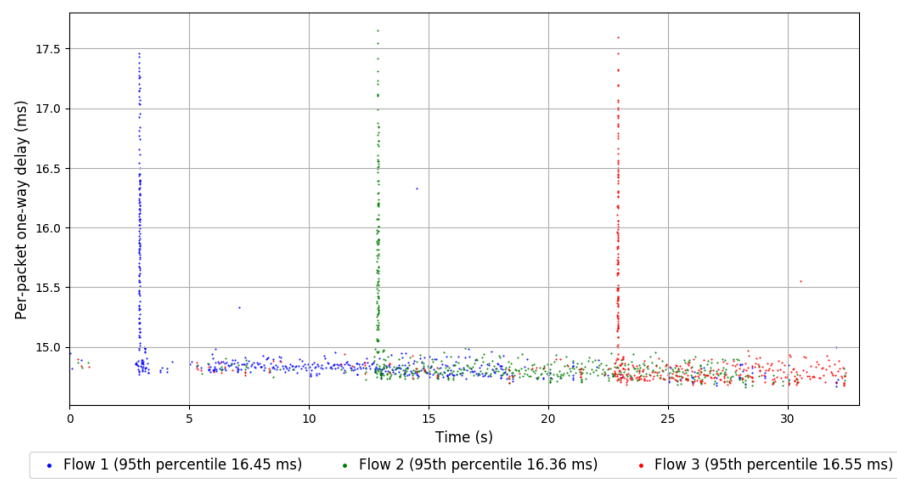
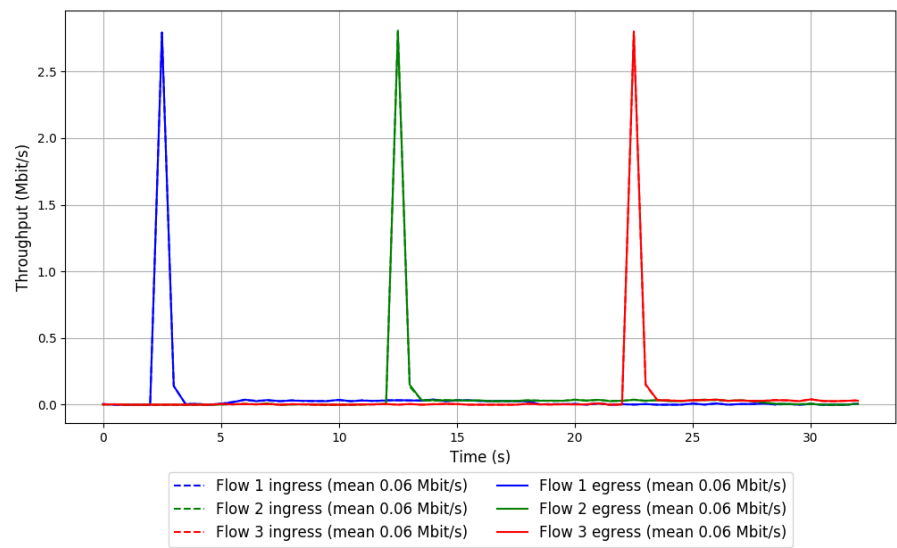
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 16.548 ms

Loss rate: 0.11%

Run 10: Report of WebRTC media — Data Link

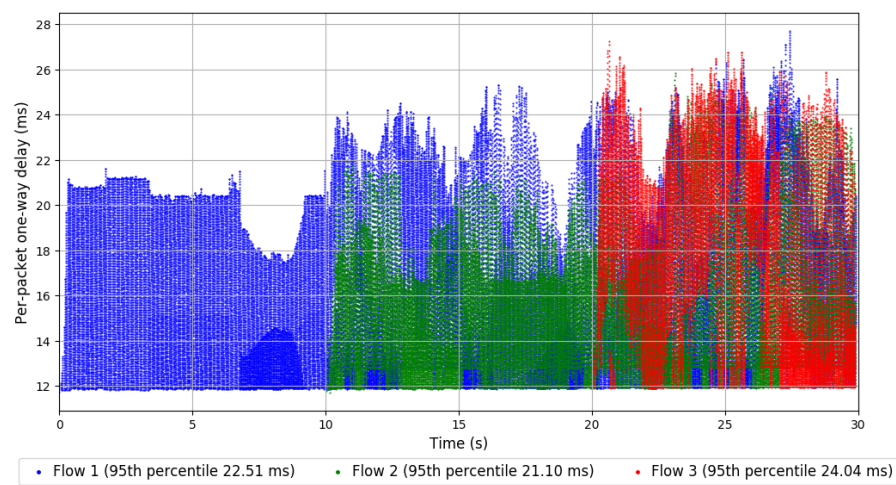
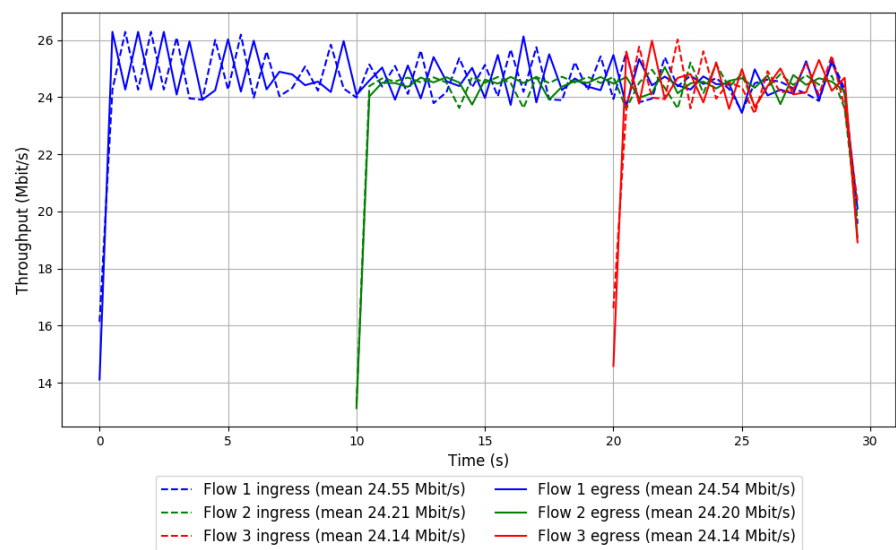


```
Run 1: Statistics of Sprout

Start at: 2018-04-03 17:02:41
End at: 2018-04-03 17:03:11
Local clock offset: 1.915 ms
Remote clock offset: 6.003 ms

# Below is generated by plot.py at 2018-04-04 00:29:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 22.705 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 22.509 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.20 Mbit/s
95th percentile per-packet one-way delay: 21.098 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 24.037 ms
Loss rate: 0.41%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-03 17:23:56

End at: 2018-04-03 17:24:26

Local clock offset: 4.594 ms

Remote clock offset: 3.57 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 22.557 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 24.75 Mbit/s

95th percentile per-packet one-way delay: 22.656 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.69 Mbit/s

95th percentile per-packet one-way delay: 22.445 ms

Loss rate: 0.04%

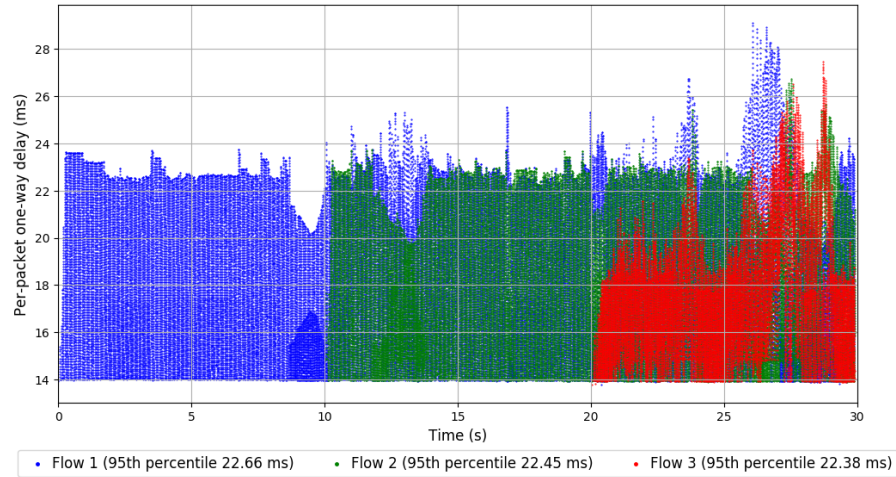
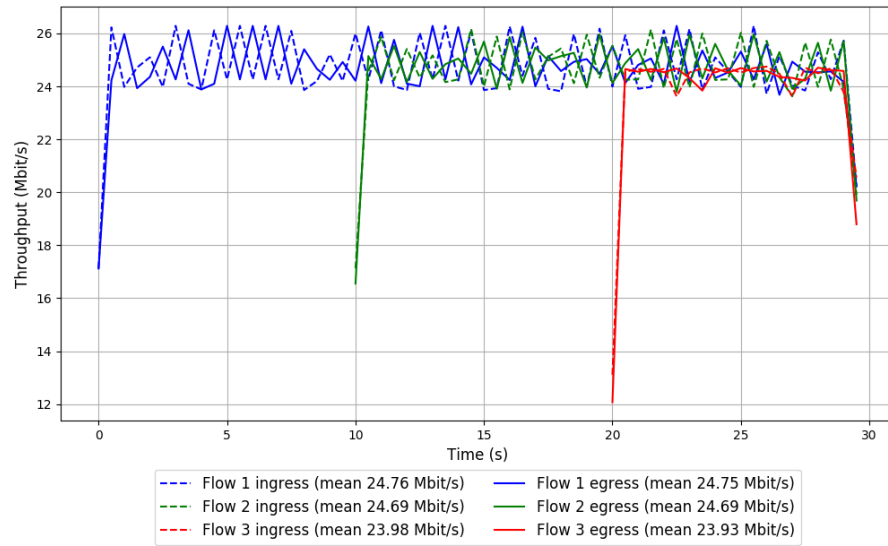
-- Flow 3:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 22.384 ms

Loss rate: 0.41%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-03 17:45:25

End at: 2018-04-03 17:45:55

Local clock offset: 2.517 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 20.632 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 20.657 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 20.600 ms

Loss rate: 0.24%

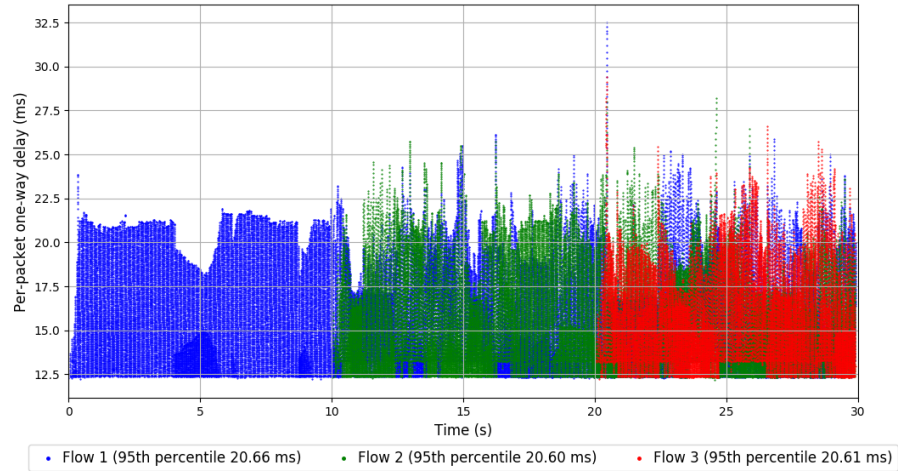
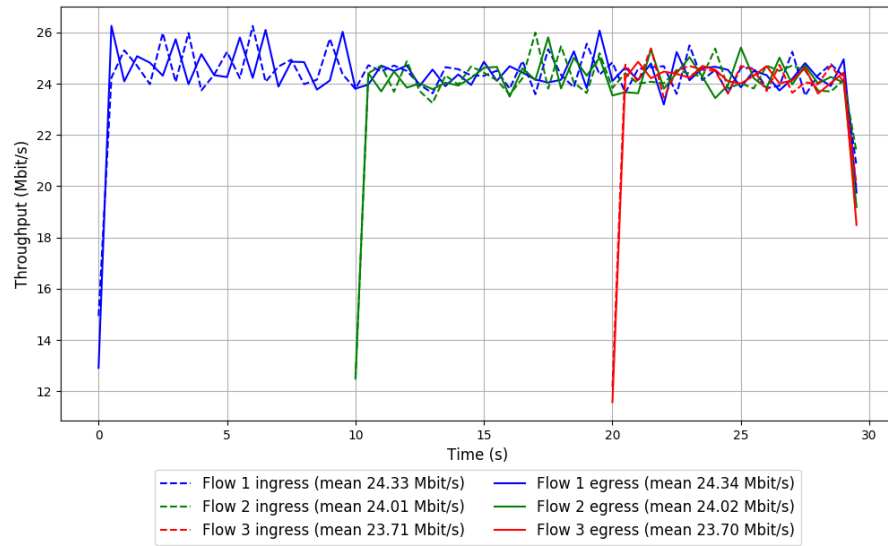
-- Flow 3:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 20.606 ms

Loss rate: 0.48%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-03 18:18:46

End at: 2018-04-03 18:19:16

Local clock offset: 4.383 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 24.270 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 23.702 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 23.306 ms

Loss rate: 0.20%

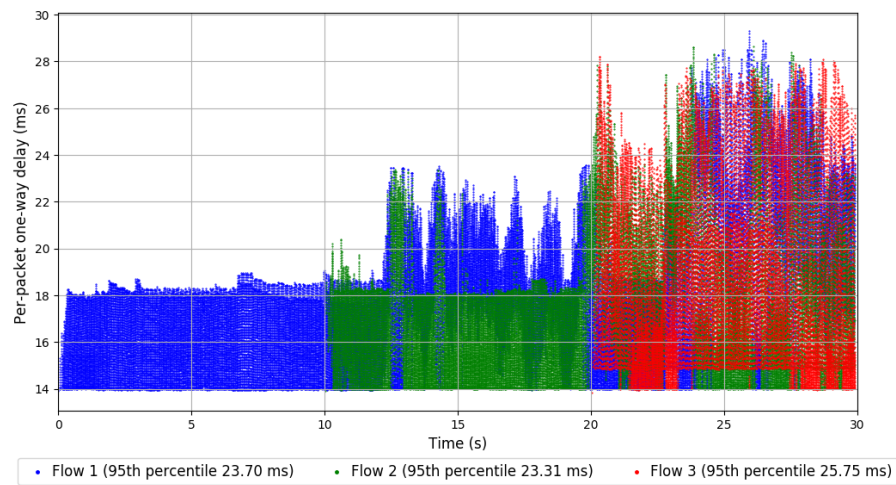
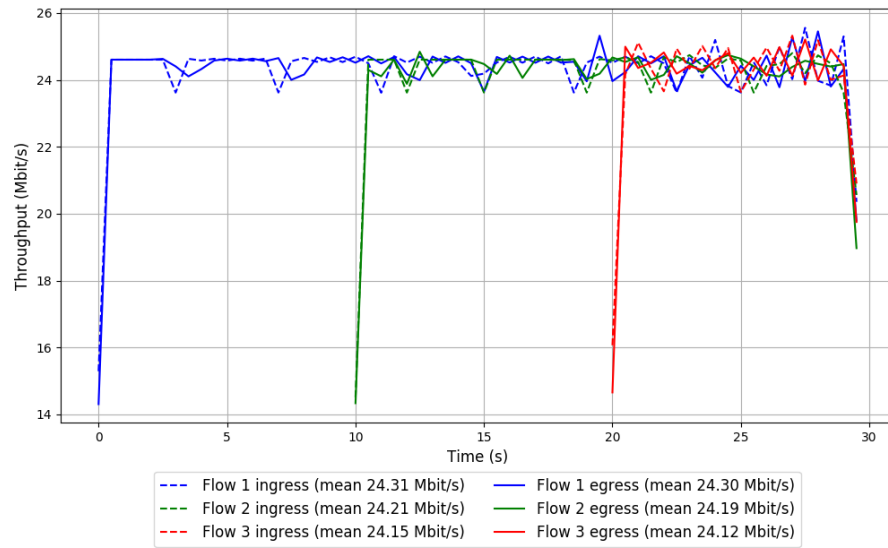
-- Flow 3:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 25.749 ms

Loss rate: 0.32%

Run 4: Report of Sprout — Data Link

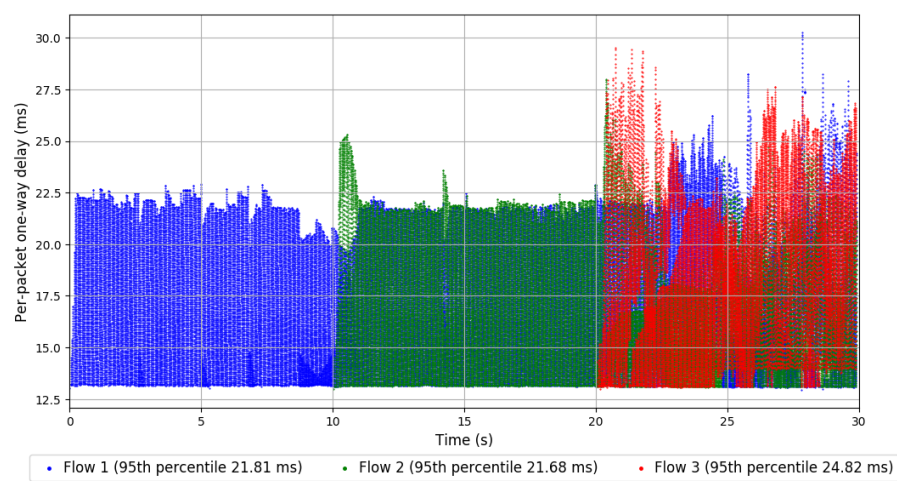
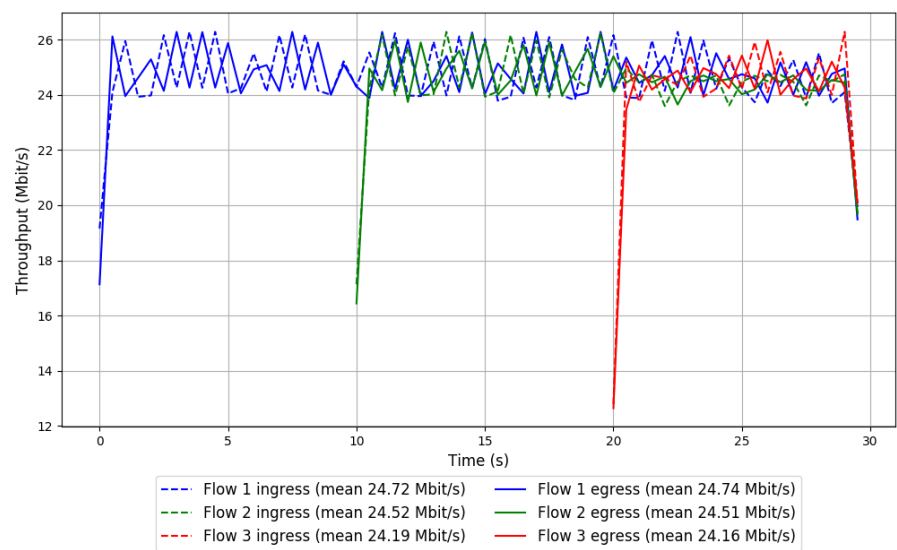


Run 5: Statistics of Sprout

Start at: 2018-04-03 18:42:51
End at: 2018-04-03 18:43:21
Local clock offset: 4.0 ms
Remote clock offset: -2.756 ms

Below is generated by plot.py at 2018-04-04 00:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.99 Mbit/s
95th percentile per-packet one-way delay: 22.375 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 21.807 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 21.675 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 24.822 ms
Loss rate: 0.42%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-03 19:03:46

End at: 2018-04-03 19:04:16

Local clock offset: 1.347 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-04-04 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.64 Mbit/s

95th percentile per-packet one-way delay: 22.200 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 22.244 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 20.977 ms

Loss rate: 0.11%

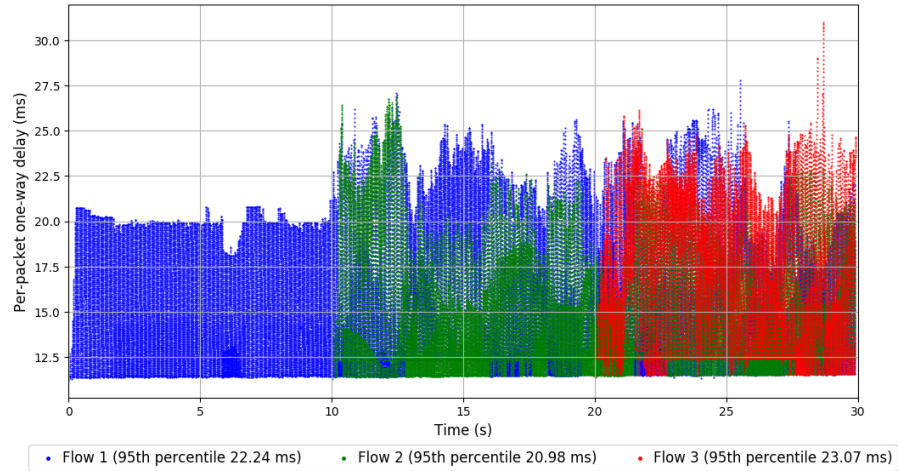
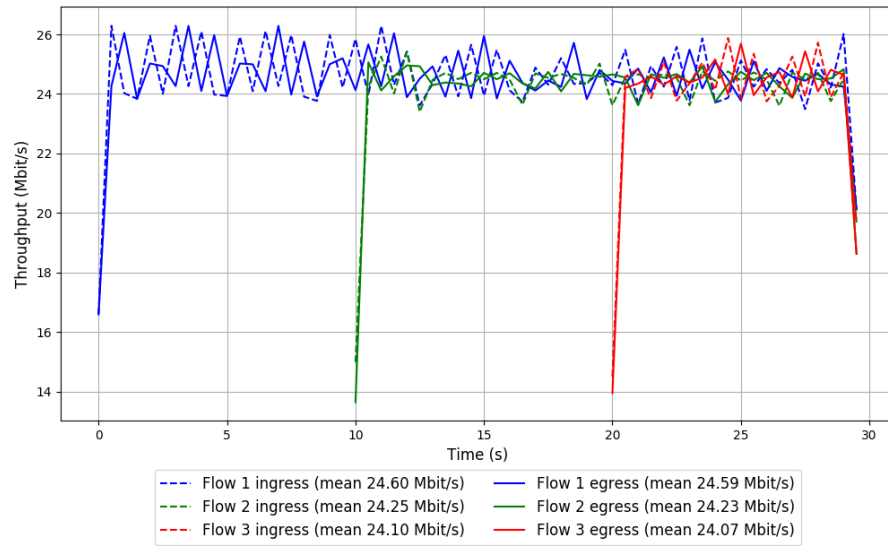
-- Flow 3:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 23.071 ms

Loss rate: 0.41%

Run 6: Report of Sprout — Data Link

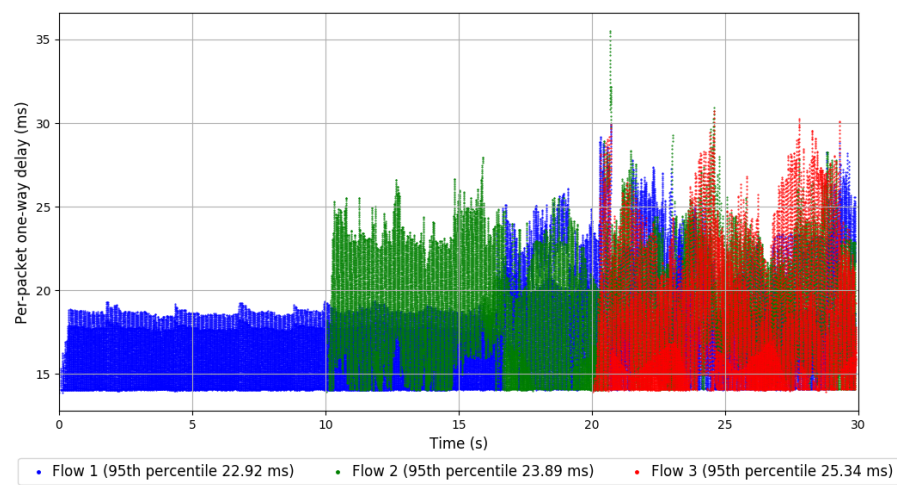
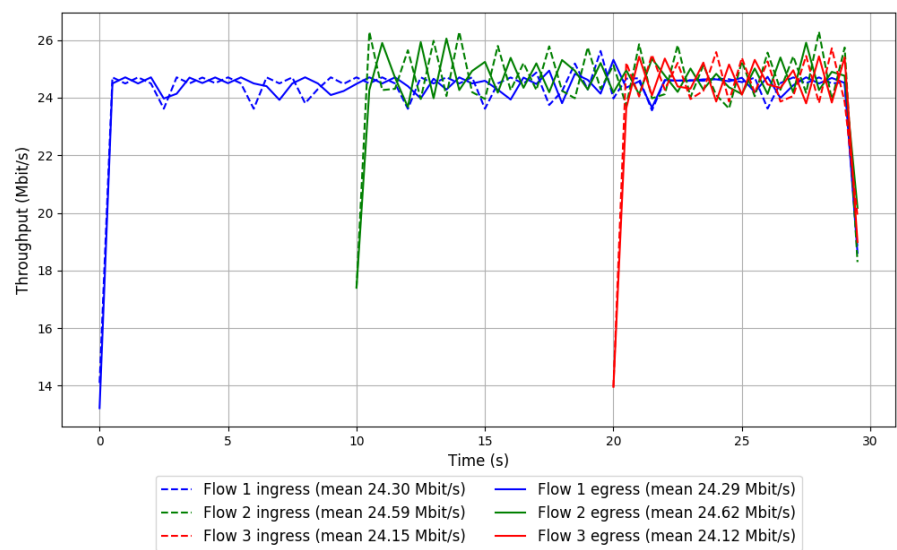


Run 7: Statistics of Sprout

Start at: 2018-04-03 19:24:44
End at: 2018-04-03 19:25:14
Local clock offset: 4.504 ms
Remote clock offset: 4.686 ms

Below is generated by plot.py at 2018-04-04 00:29:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.62 Mbit/s
95th percentile per-packet one-way delay: 23.763 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 22.917 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 23.888 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 25.344 ms
Loss rate: 0.26%

Run 7: Report of Sprout — Data Link

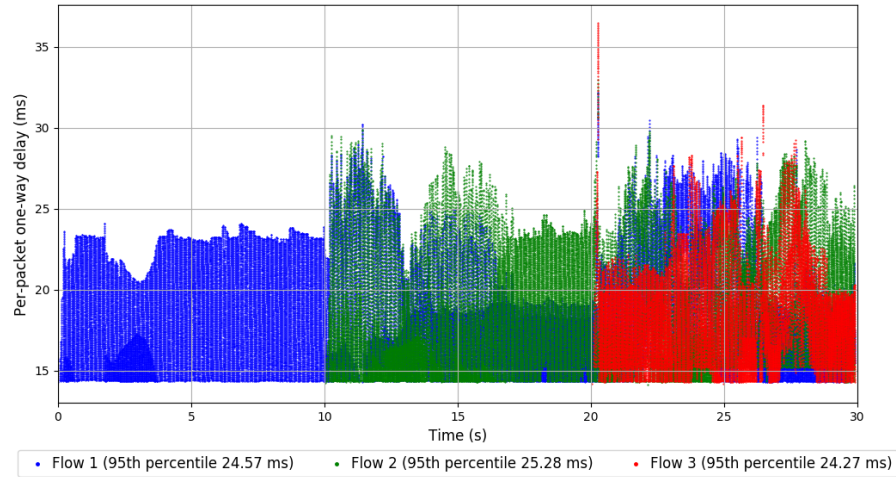
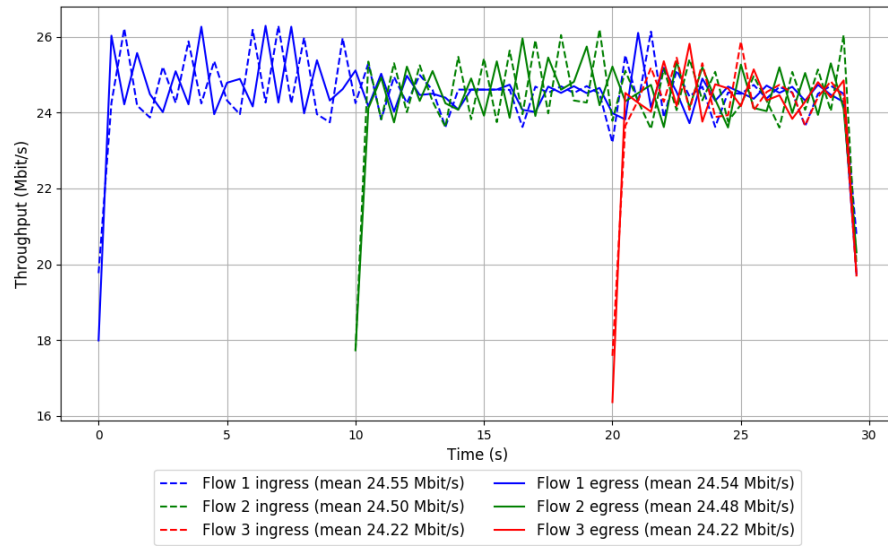


Run 8: Statistics of Sprout

Start at: 2018-04-03 19:45:41
End at: 2018-04-03 19:46:11
Local clock offset: 3.206 ms
Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-04-04 00:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.80 Mbit/s
95th percentile per-packet one-way delay: 24.820 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 24.568 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 25.282 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 24.271 ms
Loss rate: 0.15%

Run 8: Report of Sprout — Data Link

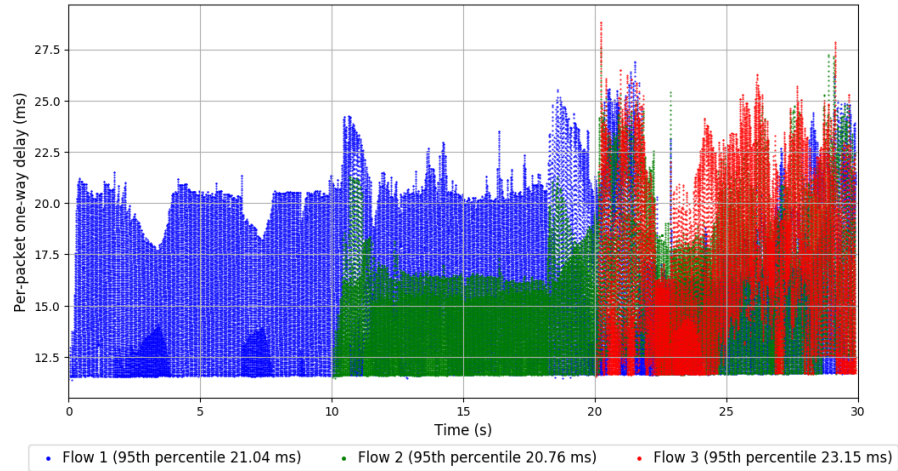
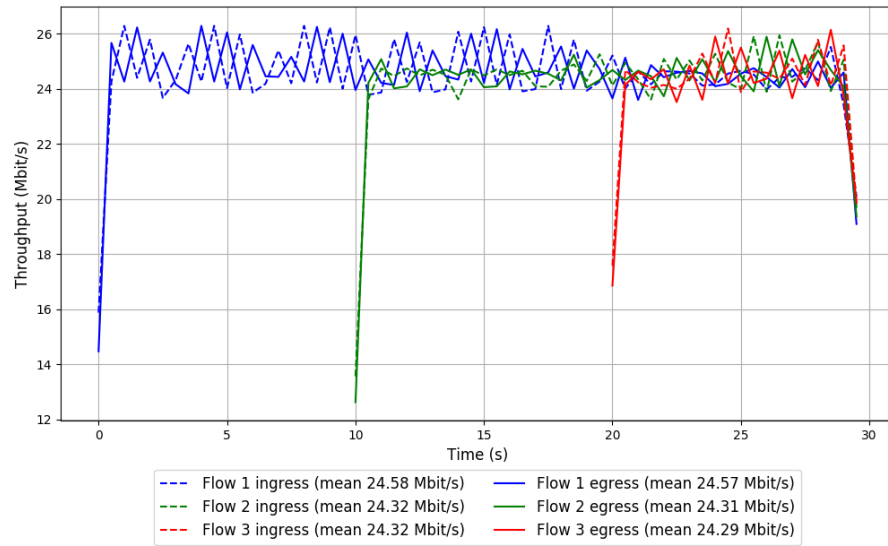


Run 9: Statistics of Sprout

Start at: 2018-04-03 20:06:38
End at: 2018-04-03 20:07:08
Local clock offset: 0.464 ms
Remote clock offset: -0.666 ms

```
# Below is generated by plot.py at 2018-04-04 00:29:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 21.691 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 21.041 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 20.762 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 23.149 ms
Loss rate: 0.36%
```

Run 9: Report of Sprout — Data Link

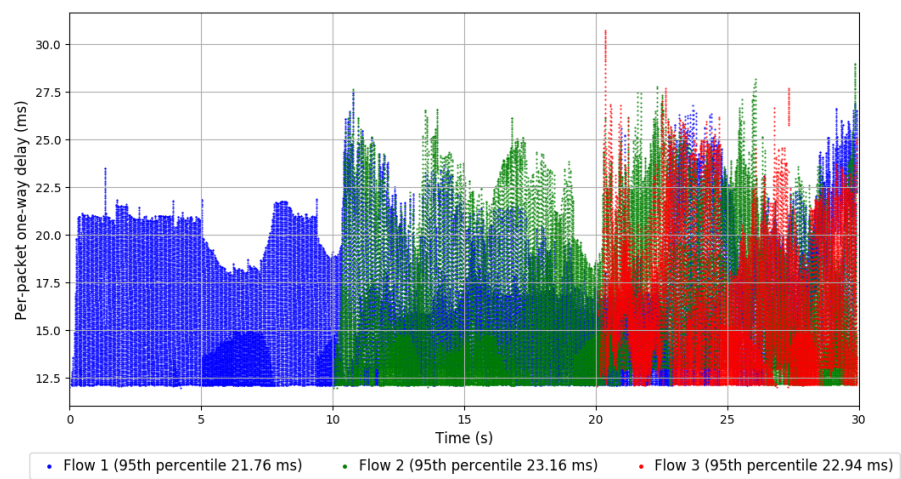
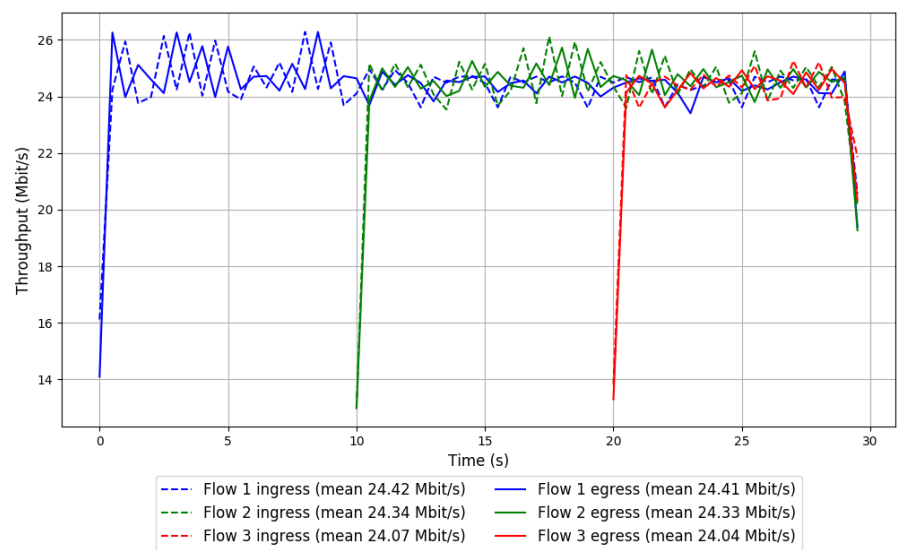


Run 10: Statistics of Sprout

Start at: 2018-04-03 20:27:34
End at: 2018-04-03 20:28:04
Local clock offset: -1.541 ms
Remote clock offset: 0.49 ms

```
# Below is generated by plot.py at 2018-04-04 00:29:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.52 Mbit/s
95th percentile per-packet one-way delay: 22.624 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 21.761 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 23.161 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 22.944 ms
Loss rate: 0.34%
```

Run 10: Report of Sprout — Data Link

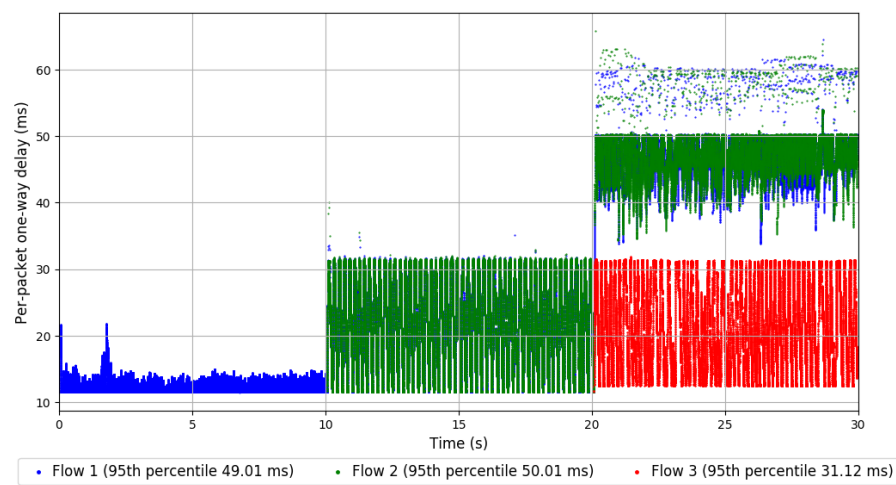
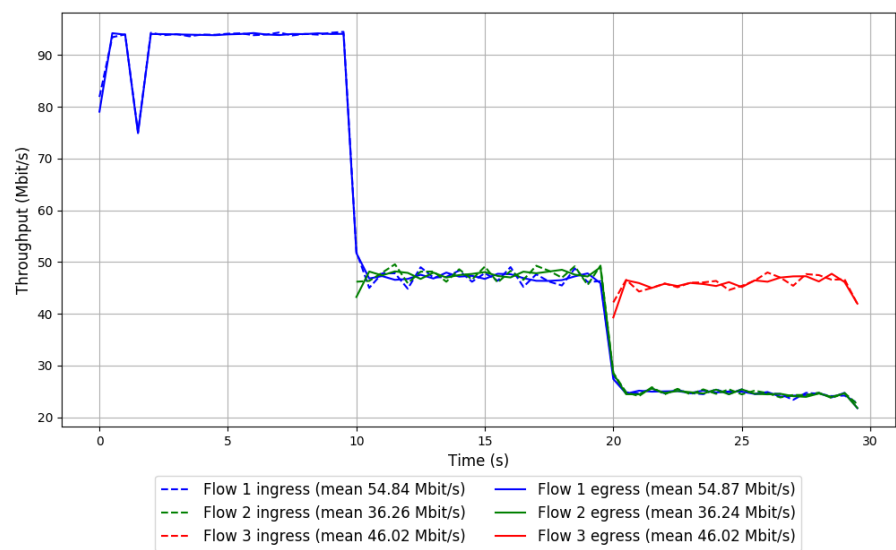


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-03 17:04:59
End at: 2018-04-03 17:05:29
Local clock offset: 2.645 ms
Remote clock offset: 7.418 ms

# Below is generated by plot.py at 2018-04-04 00:31:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 49.413 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 54.87 Mbit/s
95th percentile per-packet one-way delay: 49.010 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 36.24 Mbit/s
95th percentile per-packet one-way delay: 50.012 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 46.02 Mbit/s
95th percentile per-packet one-way delay: 31.123 ms
Loss rate: 0.23%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-03 17:26:16

End at: 2018-04-03 17:26:46

Local clock offset: 4.394 ms

Remote clock offset: 2.823 ms

Below is generated by plot.py at 2018-04-04 00:31:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 47.109 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 46.816 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 33.496 ms

Loss rate: 0.13%

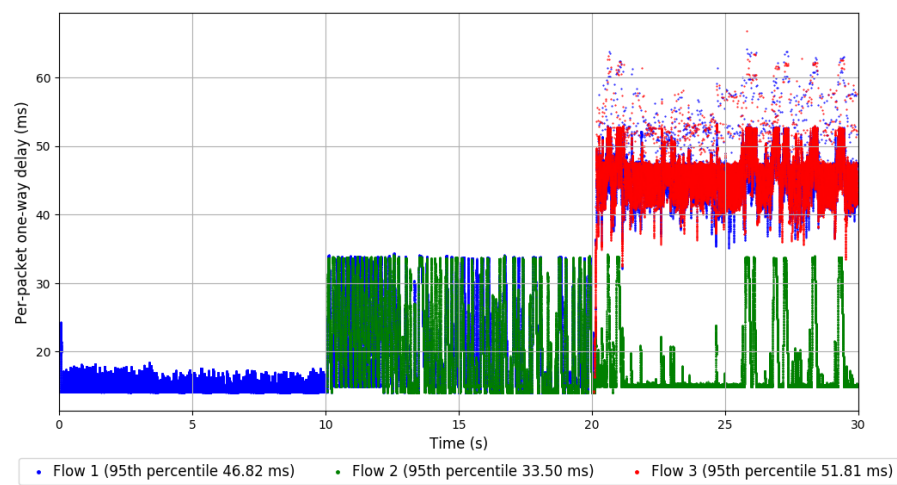
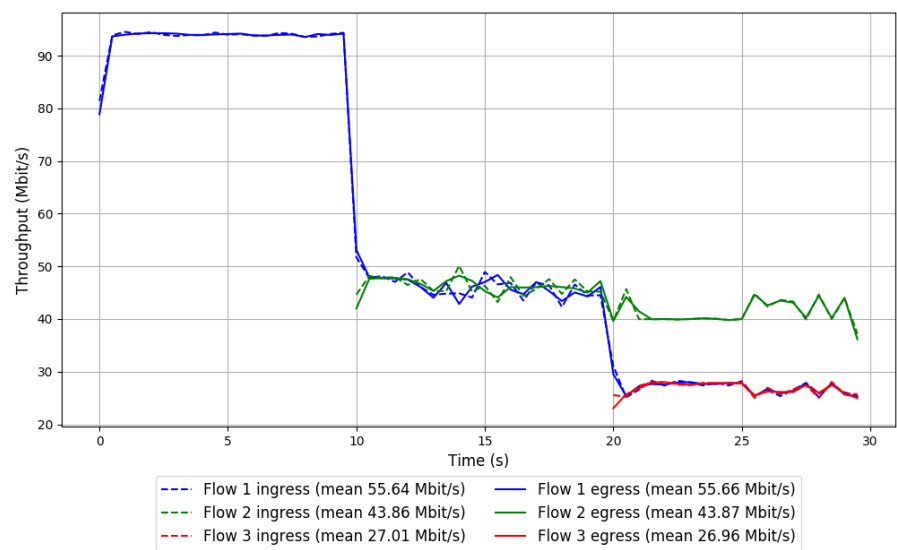
-- Flow 3:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 51.808 ms

Loss rate: 0.58%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-03 17:47:43

End at: 2018-04-03 17:48:13

Local clock offset: 4.508 ms

Remote clock offset: 1.941 ms

Below is generated by plot.py at 2018-04-04 00:31:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 50.245 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 49.660 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 33.716 ms

Loss rate: 0.15%

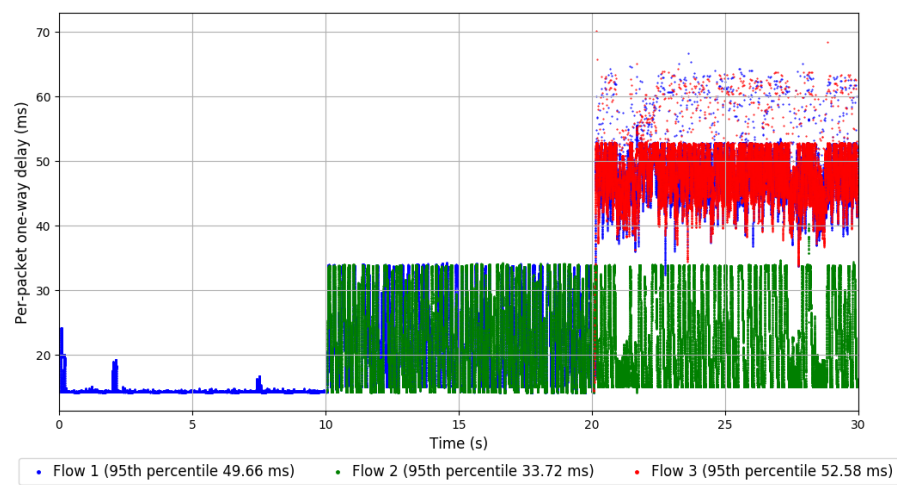
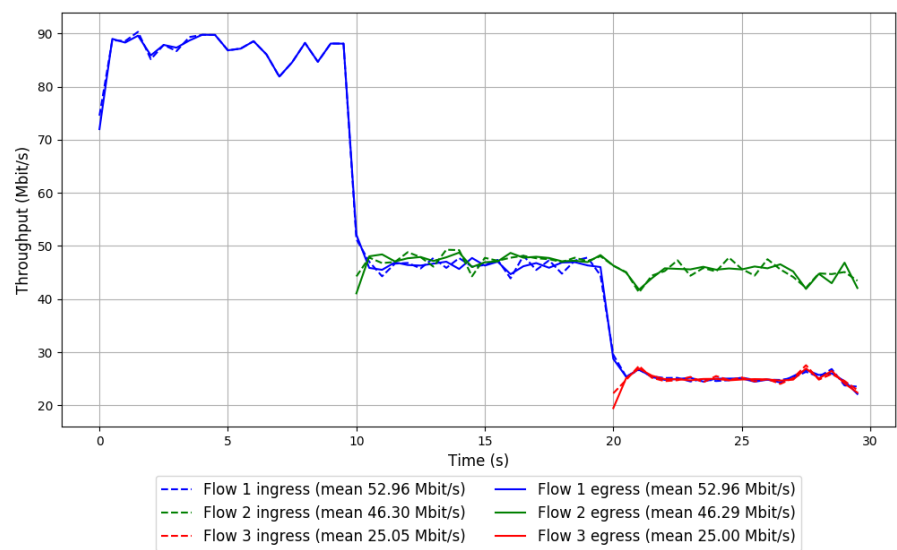
-- Flow 3:

Average throughput: 25.00 Mbit/s

95th percentile per-packet one-way delay: 52.575 ms

Loss rate: 0.61%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-03 18:21:06

End at: 2018-04-03 18:21:36

Local clock offset: 3.539 ms

Remote clock offset: 0.476 ms

Below is generated by plot.py at 2018-04-04 00:31:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 41.165 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 57.38 Mbit/s

95th percentile per-packet one-way delay: 40.546 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.66 Mbit/s

95th percentile per-packet one-way delay: 41.284 ms

Loss rate: 0.20%

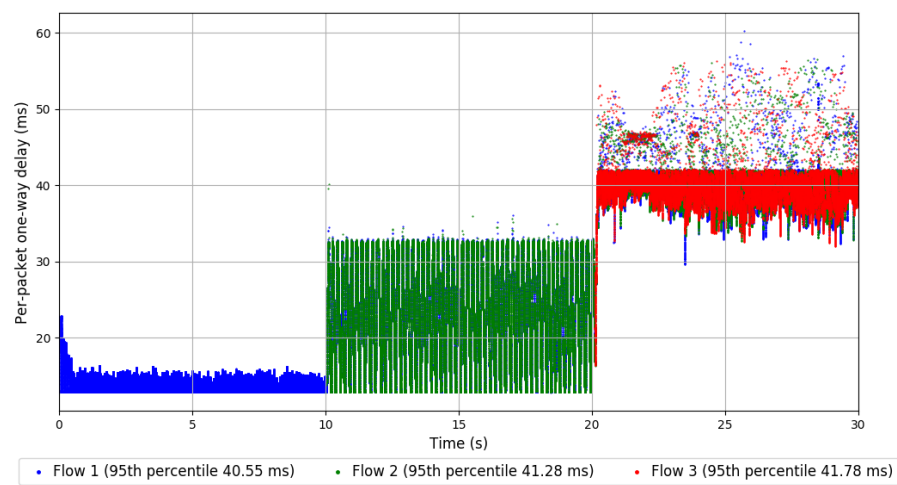
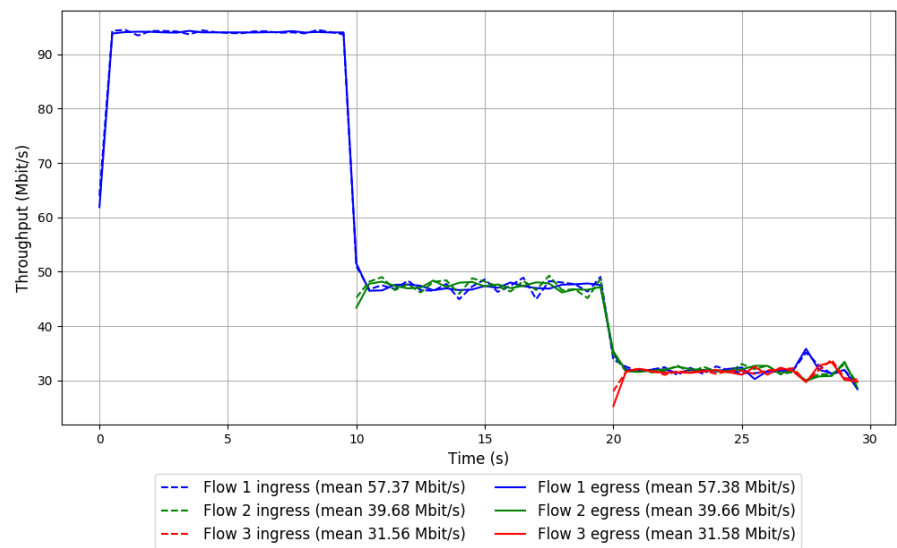
-- Flow 3:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 41.776 ms

Loss rate: 0.52%

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

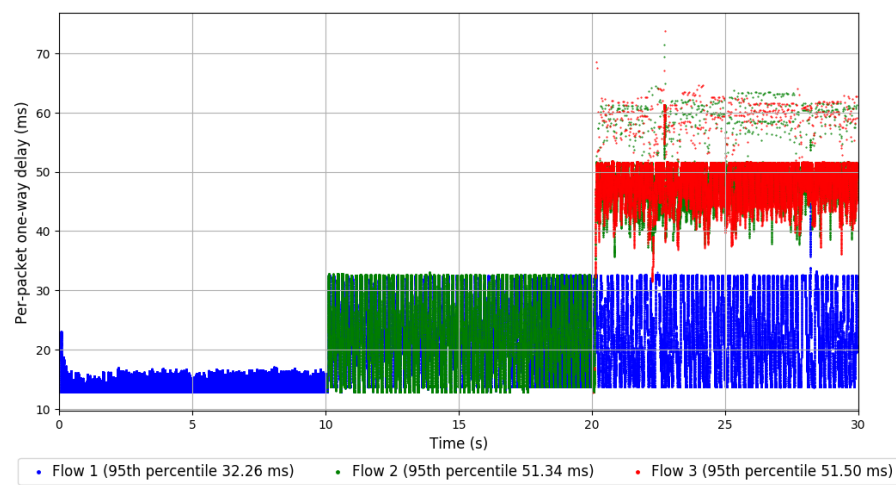
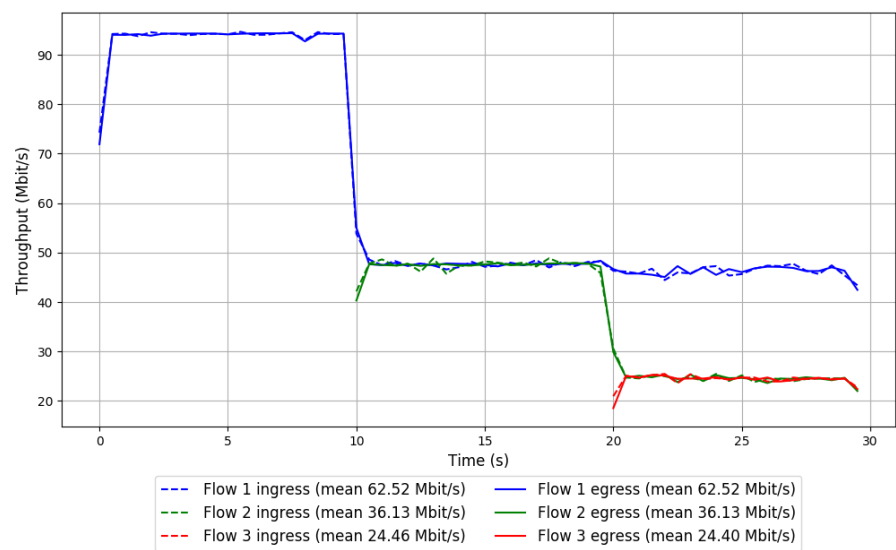


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-03 18:45:09
End at: 2018-04-03 18:45:39
Local clock offset: 3.64 ms
Remote clock offset: -3.157 ms

Below is generated by plot.py at 2018-04-04 00:31:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.62 Mbit/s
95th percentile per-packet one-way delay: 50.716 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 62.52 Mbit/s
95th percentile per-packet one-way delay: 32.261 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 51.335 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 51.503 ms
Loss rate: 0.62%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-03 19:06:04

End at: 2018-04-03 19:06:34

Local clock offset: 4.251 ms

Remote clock offset: 1.778 ms

Below is generated by plot.py at 2018-04-04 00:32:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 42.656 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 42.666 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 42.619 ms

Loss rate: 0.21%

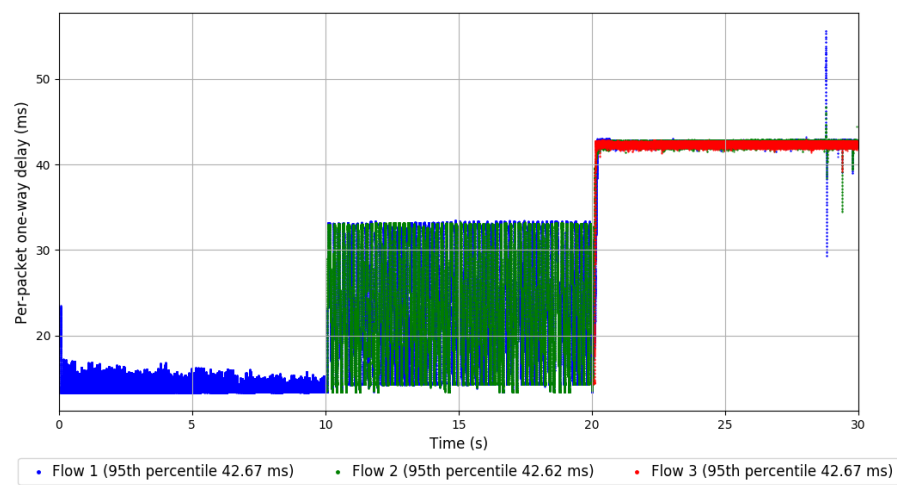
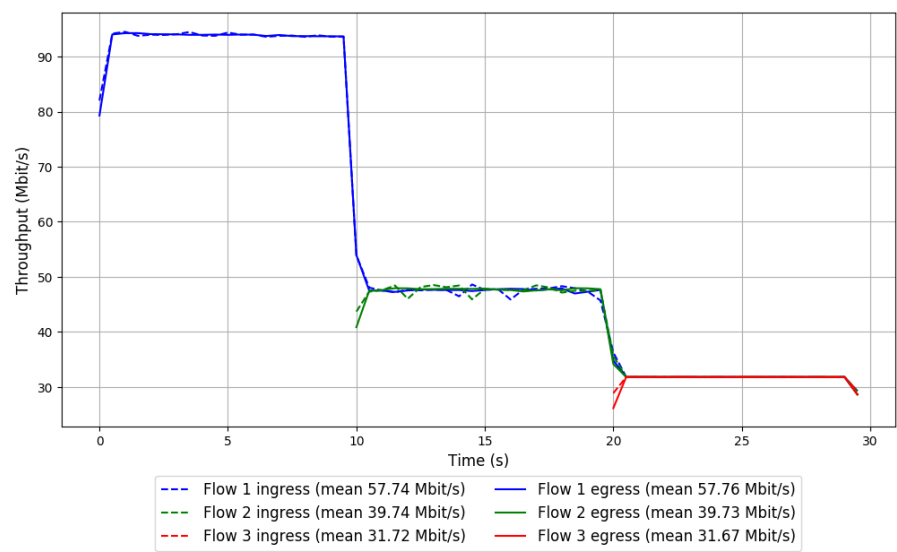
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 42.669 ms

Loss rate: 0.52%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-03 19:27:01

End at: 2018-04-03 19:27:31

Local clock offset: 4.547 ms

Remote clock offset: 5.091 ms

Below is generated by plot.py at 2018-04-04 00:32:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.11 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 62.07 Mbit/s

95th percentile per-packet one-way delay: 33.312 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 36.08 Mbit/s

95th percentile per-packet one-way delay: 52.376 ms

Loss rate: 0.21%

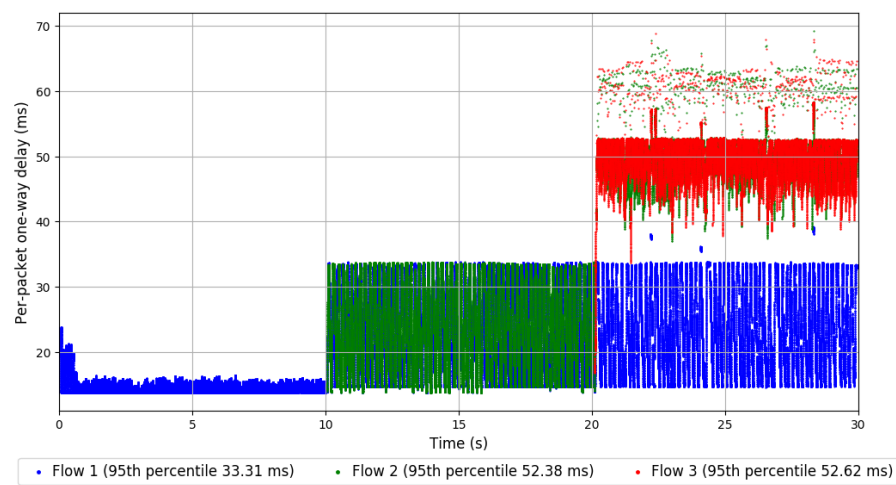
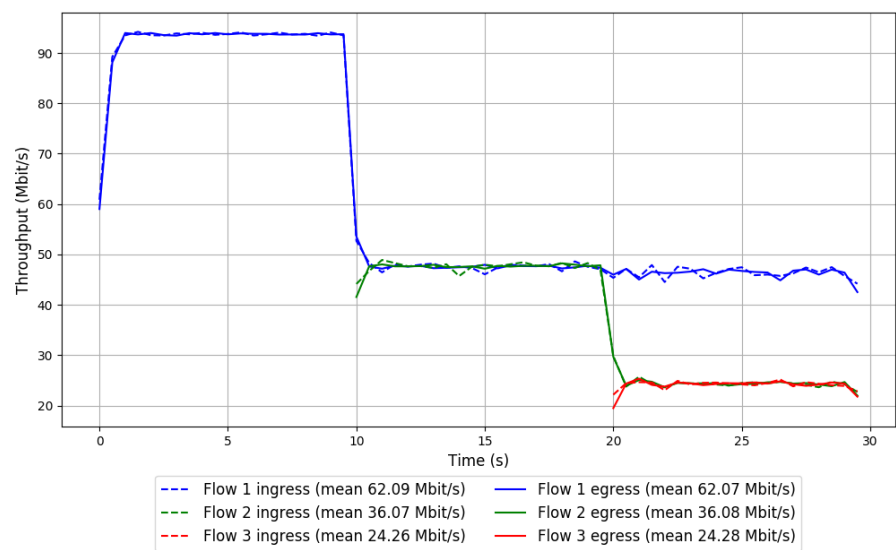
-- Flow 3:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 52.616 ms

Loss rate: 0.60%

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

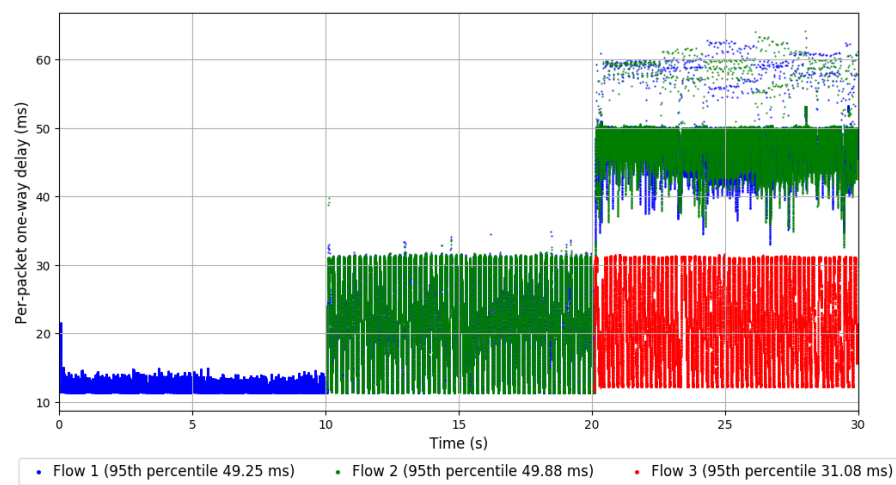
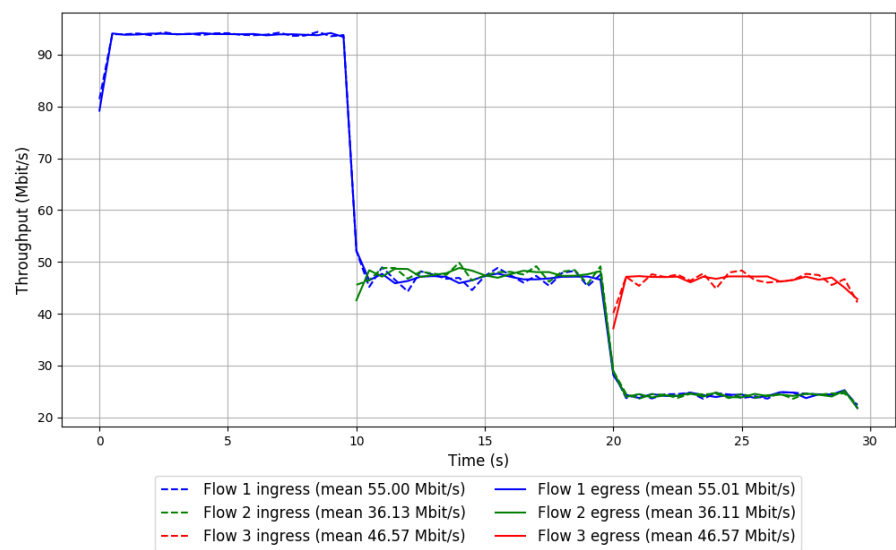


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-03 19:47:58
End at: 2018-04-03 19:48:28
Local clock offset: -0.101 ms
Remote clock offset: -0.876 ms

Below is generated by plot.py at 2018-04-04 00:32:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 49.539 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 49.253 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 49.877 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 46.57 Mbit/s
95th percentile per-packet one-way delay: 31.084 ms
Loss rate: 0.24%

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

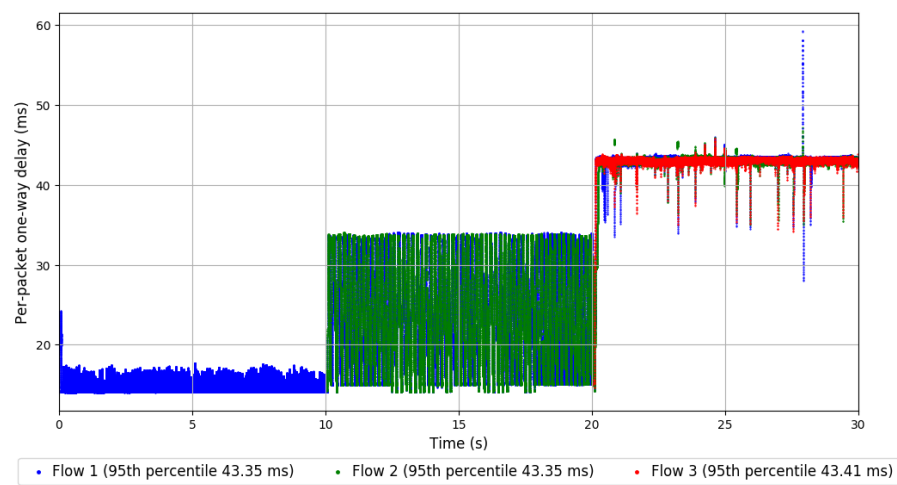
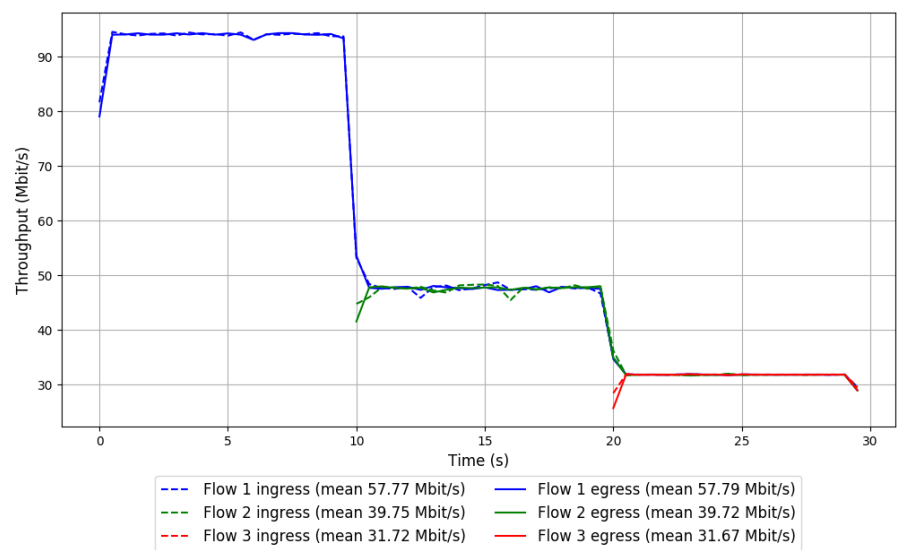


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-03 20:08:56
End at: 2018-04-03 20:09:26
Local clock offset: 2.184 ms
Remote clock offset: -0.765 ms

Below is generated by plot.py at 2018-04-04 00:34:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 43.365 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 43.347 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.72 Mbit/s
95th percentile per-packet one-way delay: 43.355 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 43.414 ms
Loss rate: 0.53%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-03 20:29:52

End at: 2018-04-03 20:30:22

Local clock offset: -0.905 ms

Remote clock offset: 1.115 ms

Below is generated by plot.py at 2018-04-04 00:34:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 50.274 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 55.47 Mbit/s

95th percentile per-packet one-way delay: 49.895 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 46.86 Mbit/s

95th percentile per-packet one-way delay: 31.954 ms

Loss rate: 0.22%

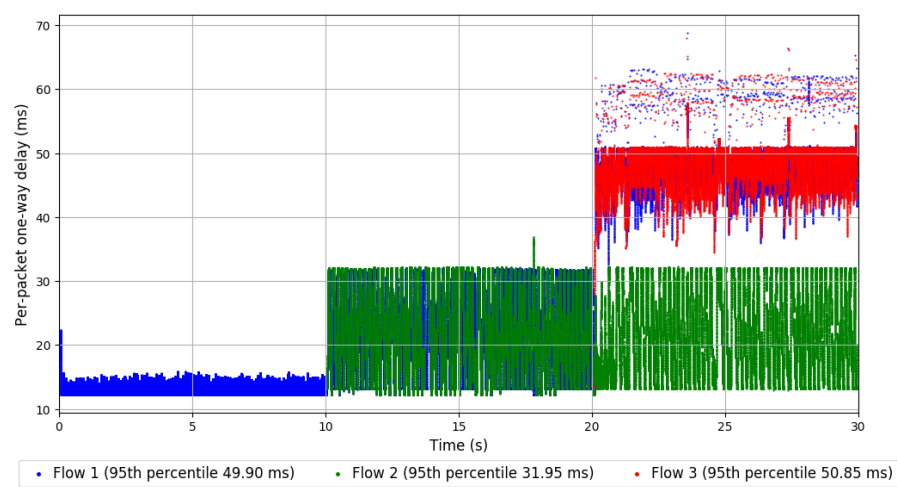
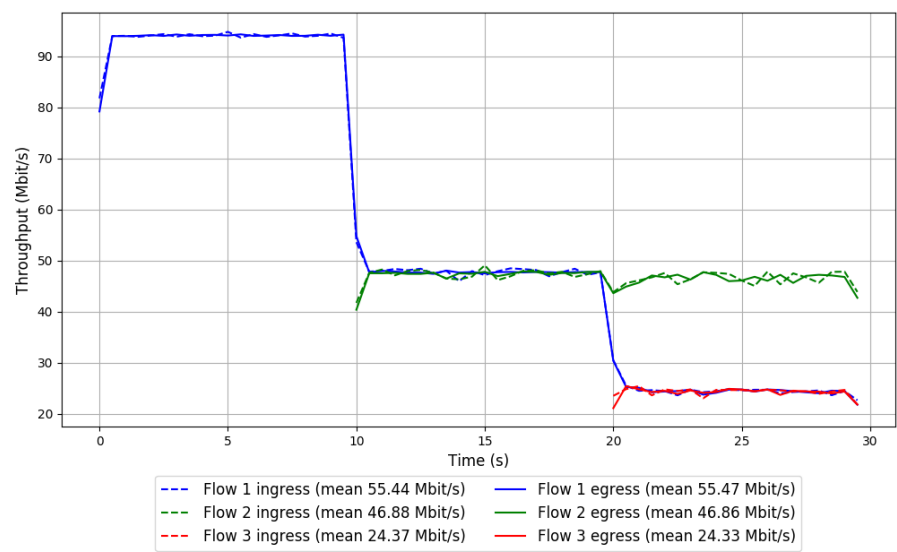
-- Flow 3:

Average throughput: 24.33 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.59%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-03 17:10:52

End at: 2018-04-03 17:11:23

Local clock offset: 4.396 ms

Remote clock offset: 8.272 ms

Below is generated by plot.py at 2018-04-04 00:34:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 36.924 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 63.30 Mbit/s

95th percentile per-packet one-way delay: 27.322 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 37.235 ms

Loss rate: 0.08%

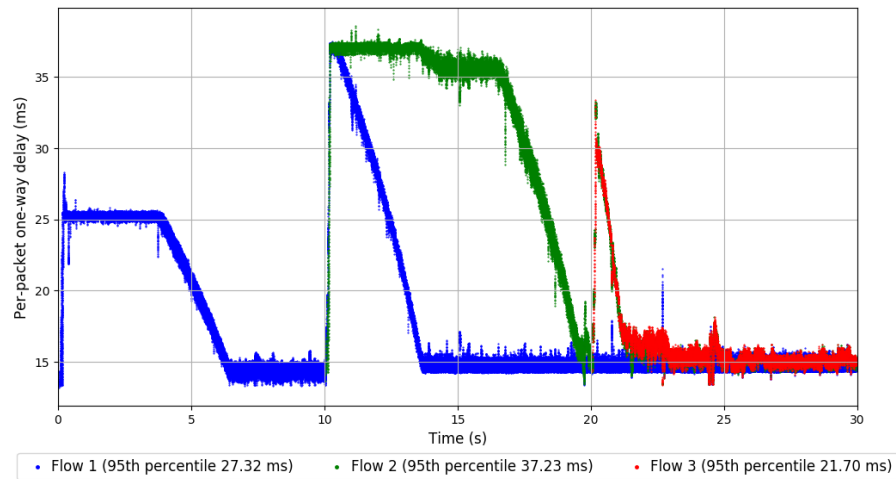
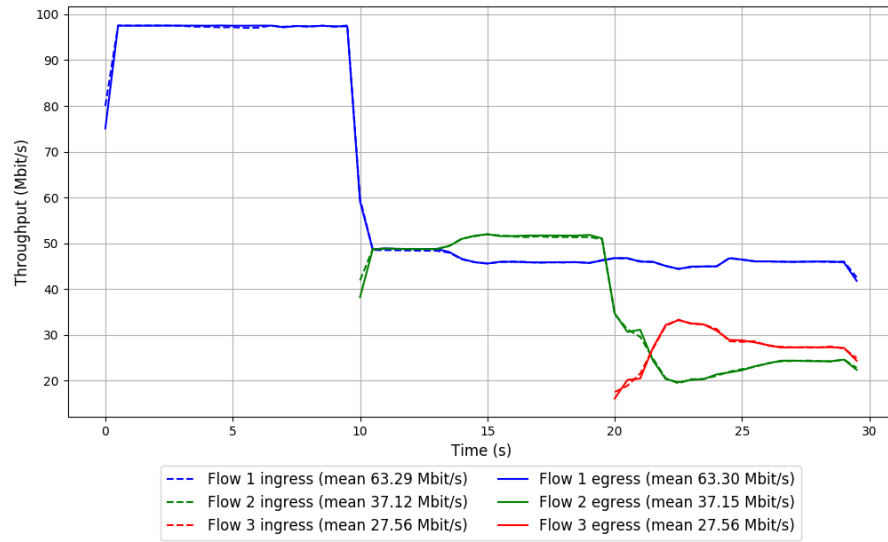
-- Flow 3:

Average throughput: 27.56 Mbit/s

95th percentile per-packet one-way delay: 21.697 ms

Loss rate: 0.25%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-03 17:32:21

End at: 2018-04-03 17:32:51

Local clock offset: 1.044 ms

Remote clock offset: 2.604 ms

Below is generated by plot.py at 2018-04-04 00:34:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.81 Mbit/s

95th percentile per-packet one-way delay: 29.843 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 12.875 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 21.914 ms

Loss rate: 0.05%

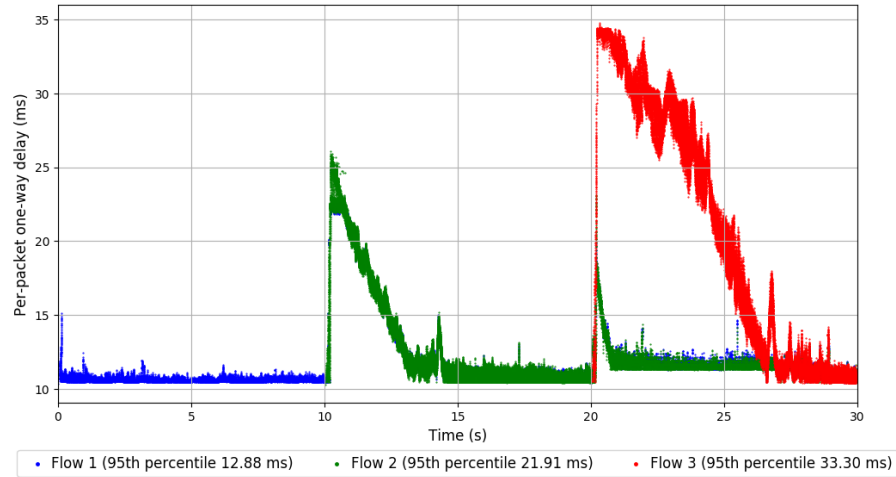
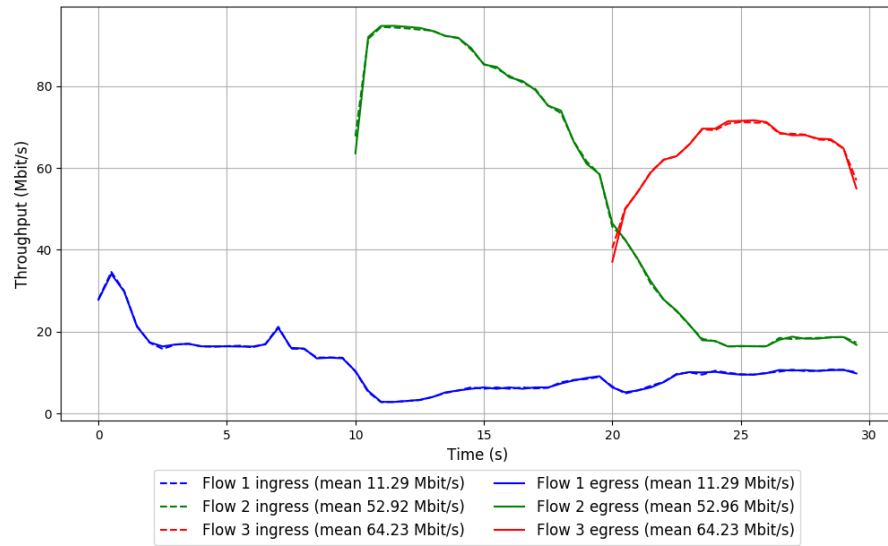
-- Flow 3:

Average throughput: 64.23 Mbit/s

95th percentile per-packet one-way delay: 33.301 ms

Loss rate: 0.26%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-03 17:53:42

End at: 2018-04-03 17:54:12

Local clock offset: 4.677 ms

Remote clock offset: 1.202 ms

Below is generated by plot.py at 2018-04-04 00:34:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.63 Mbit/s

95th percentile per-packet one-way delay: 26.393 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 26.429 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 20.29 Mbit/s

95th percentile per-packet one-way delay: 17.940 ms

Loss rate: 0.11%

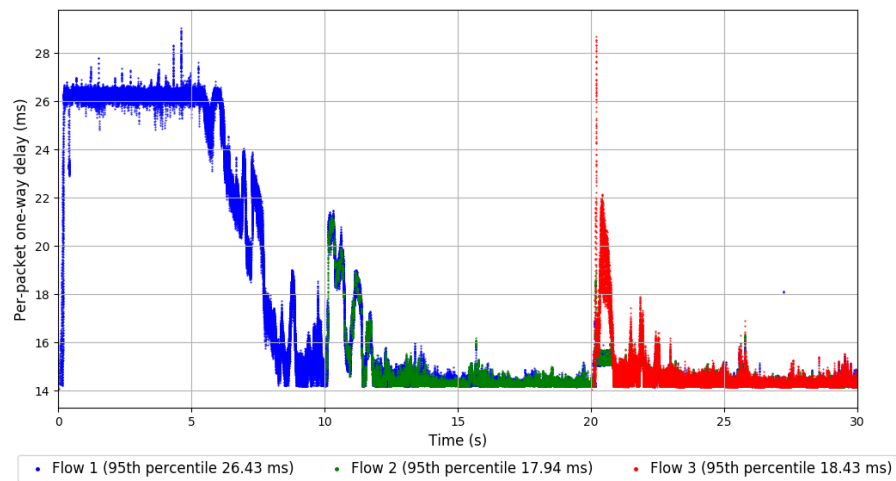
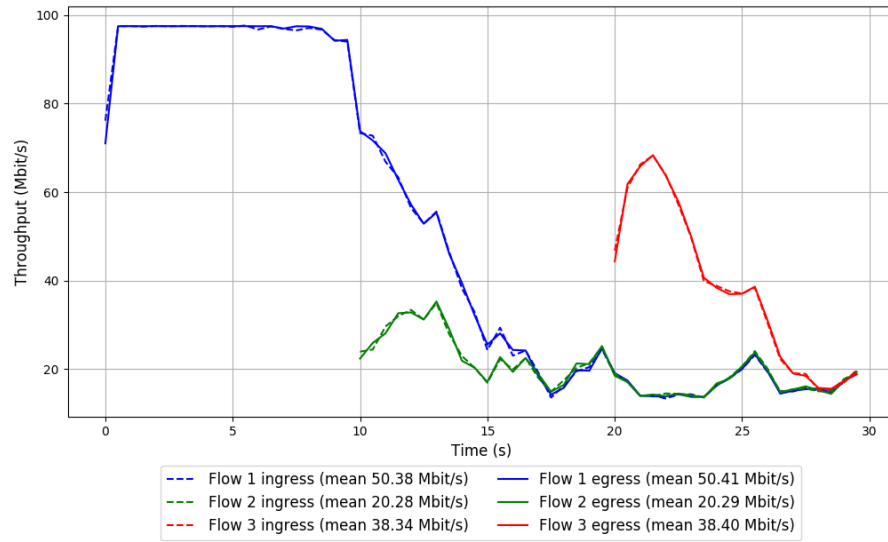
-- Flow 3:

Average throughput: 38.40 Mbit/s

95th percentile per-packet one-way delay: 18.433 ms

Loss rate: 0.12%

Run 3: Report of TCP Vegas — Data Link

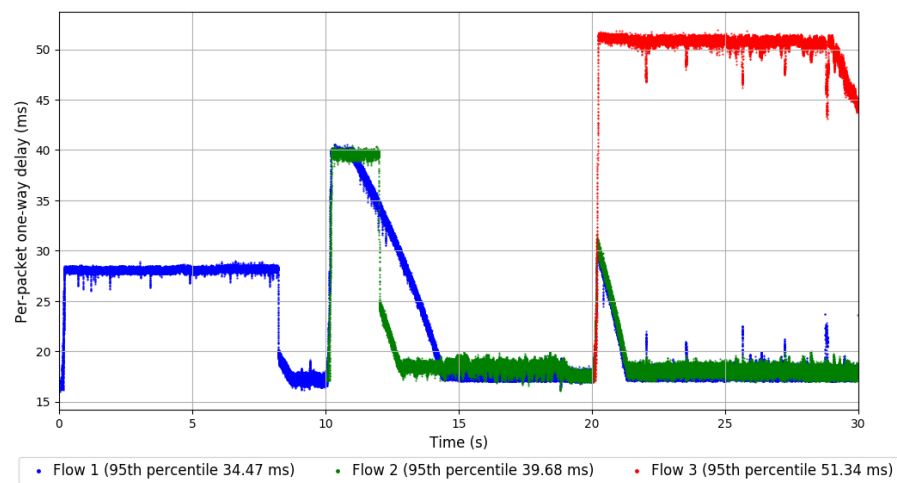
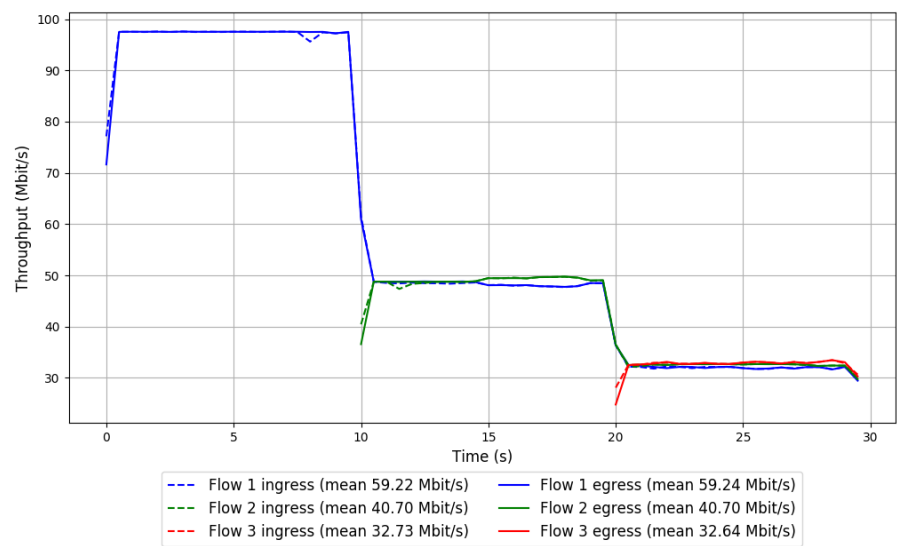


Run 4: Statistics of TCP Vegas

Start at: 2018-04-03 18:30:06
End at: 2018-04-03 18:30:36
Local clock offset: 1.971 ms
Remote clock offset: -4.177 ms

Below is generated by plot.py at 2018-04-04 00:34:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.24 Mbit/s
95th percentile per-packet one-way delay: 34.465 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.70 Mbit/s
95th percentile per-packet one-way delay: 39.682 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 51.344 ms
Loss rate: 0.54%

Run 4: Report of TCP Vegas — Data Link

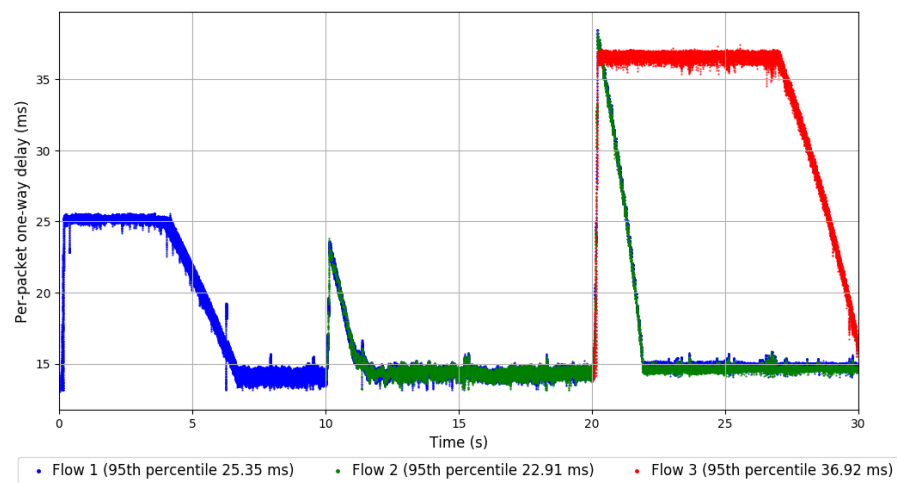
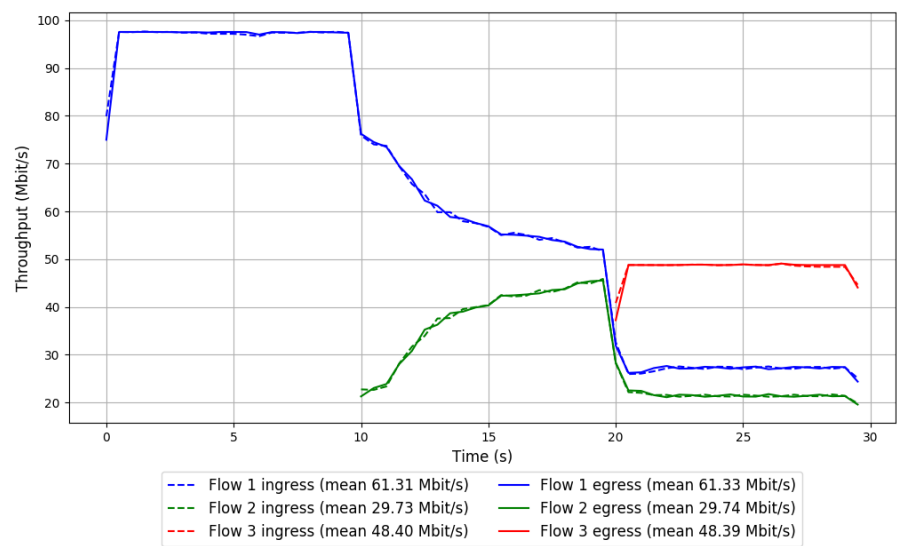


Run 5: Statistics of TCP Vegas

Start at: 2018-04-03 18:51:00
End at: 2018-04-03 18:51:30
Local clock offset: 4.631 ms
Remote clock offset: -2.658 ms

Below is generated by plot.py at 2018-04-04 00:34:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 36.735 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 61.33 Mbit/s
95th percentile per-packet one-way delay: 25.351 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 29.74 Mbit/s
95th percentile per-packet one-way delay: 22.915 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 36.925 ms
Loss rate: 0.26%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-03 19:11:59

End at: 2018-04-03 19:12:29

Local clock offset: 3.511 ms

Remote clock offset: 2.925 ms

Below is generated by plot.py at 2018-04-04 00:34:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 36.768 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 36.767 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 32.37 Mbit/s

95th percentile per-packet one-way delay: 36.799 ms

Loss rate: 0.05%

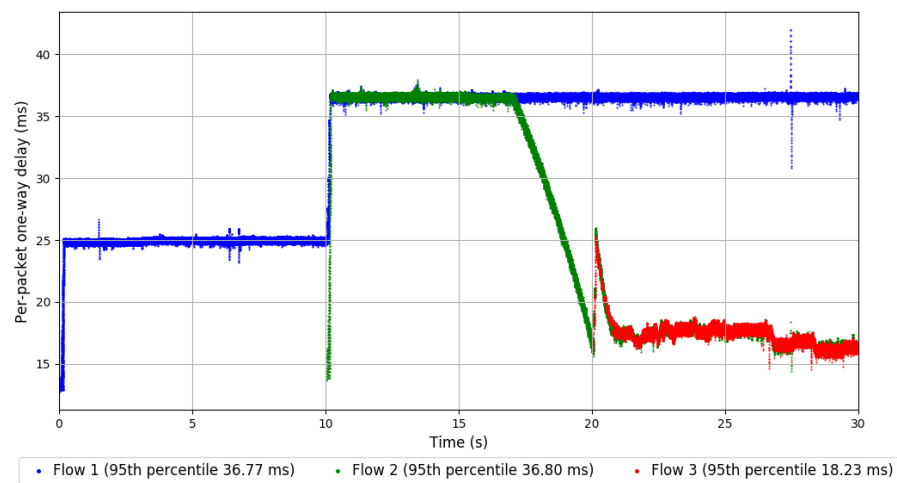
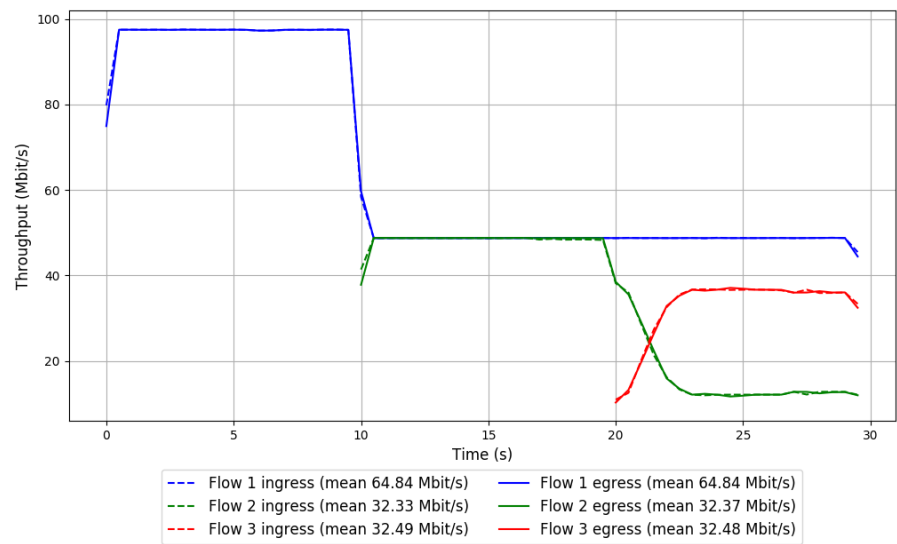
-- Flow 3:

Average throughput: 32.48 Mbit/s

95th percentile per-packet one-way delay: 18.231 ms

Loss rate: 0.30%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-03 19:32:54

End at: 2018-04-03 19:33:24

Local clock offset: 1.074 ms

Remote clock offset: 3.037 ms

Below is generated by plot.py at 2018-04-04 00:34:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.01 Mbit/s

95th percentile per-packet one-way delay: 43.271 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 65.85 Mbit/s

95th percentile per-packet one-way delay: 43.862 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 22.82 Mbit/s

95th percentile per-packet one-way delay: 45.589 ms

Loss rate: 0.03%

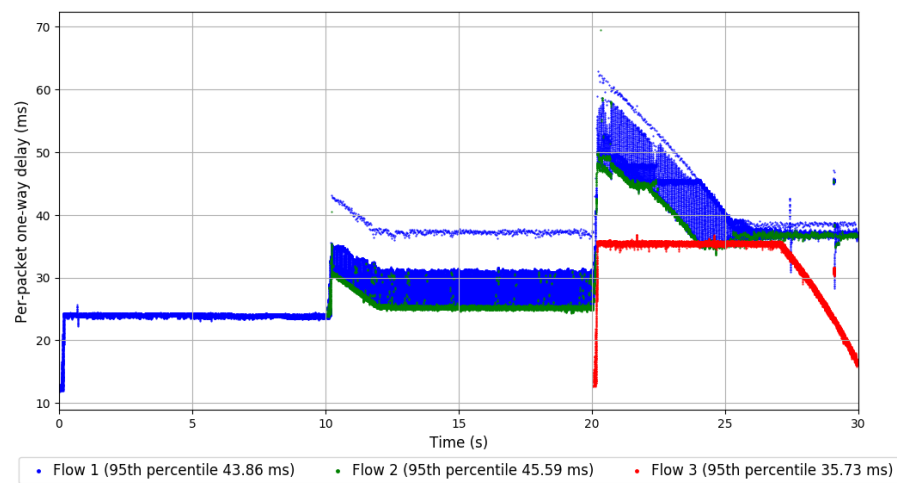
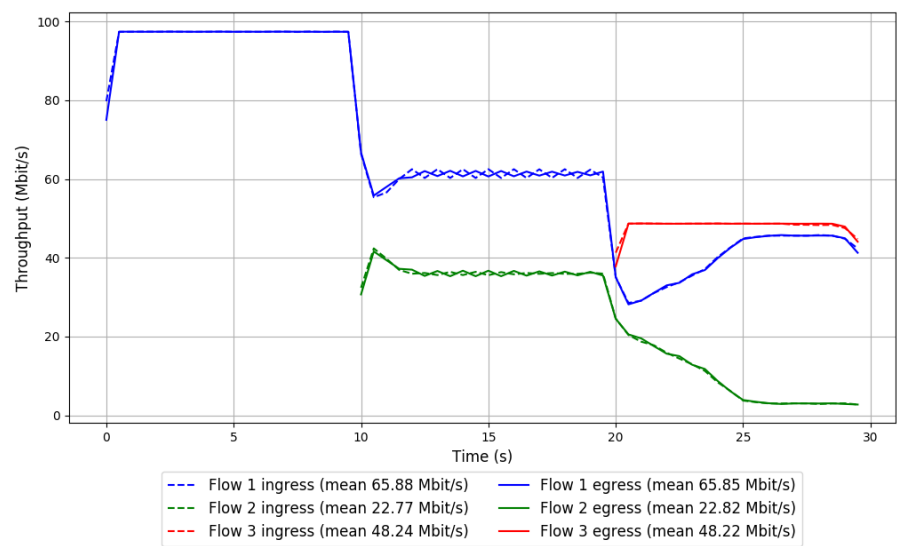
-- Flow 3:

Average throughput: 48.22 Mbit/s

95th percentile per-packet one-way delay: 35.729 ms

Loss rate: 0.27%

Run 7: Report of TCP Vegas — Data Link

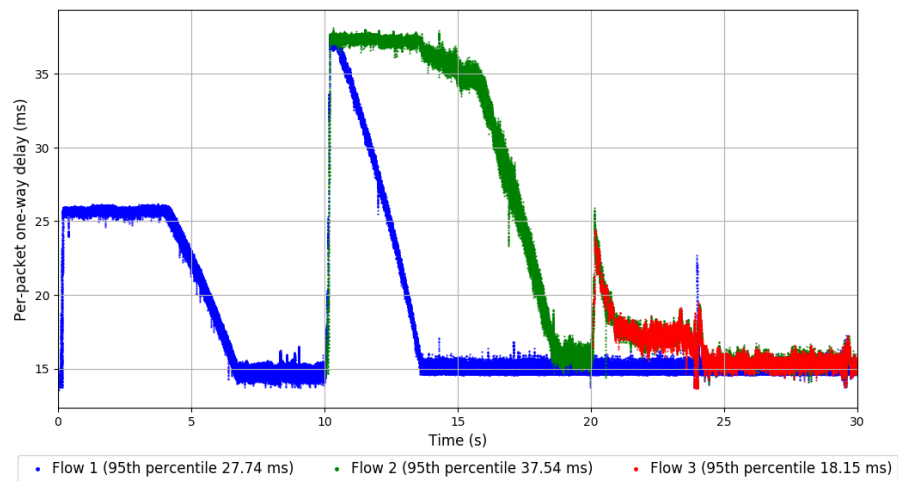
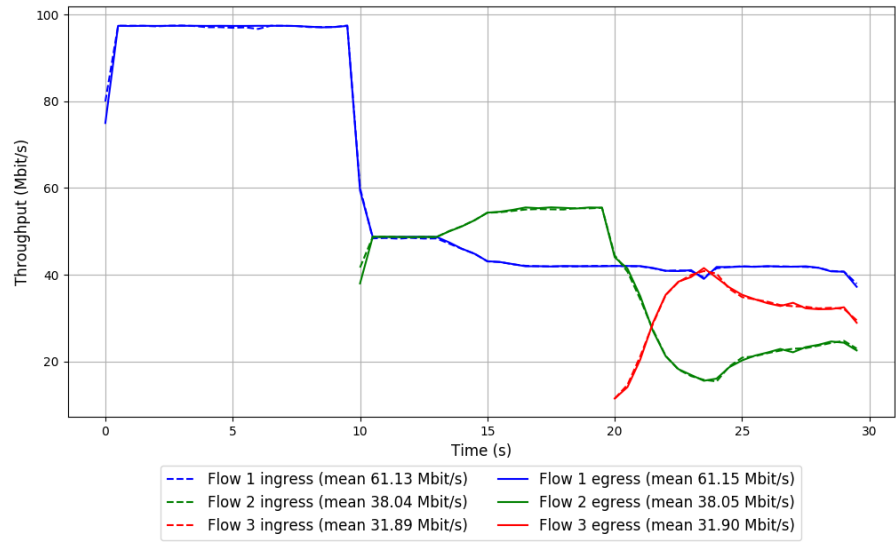


Run 8: Statistics of TCP Vegas

Start at: 2018-04-03 19:53:51
End at: 2018-04-03 19:54:21
Local clock offset: 1.622 ms
Remote clock offset: -2.122 ms

Below is generated by plot.py at 2018-04-04 00:34:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 37.128 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 61.15 Mbit/s
95th percentile per-packet one-way delay: 27.739 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 38.05 Mbit/s
95th percentile per-packet one-way delay: 37.539 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 18.154 ms
Loss rate: 0.24%

Run 8: Report of TCP Vegas — Data Link

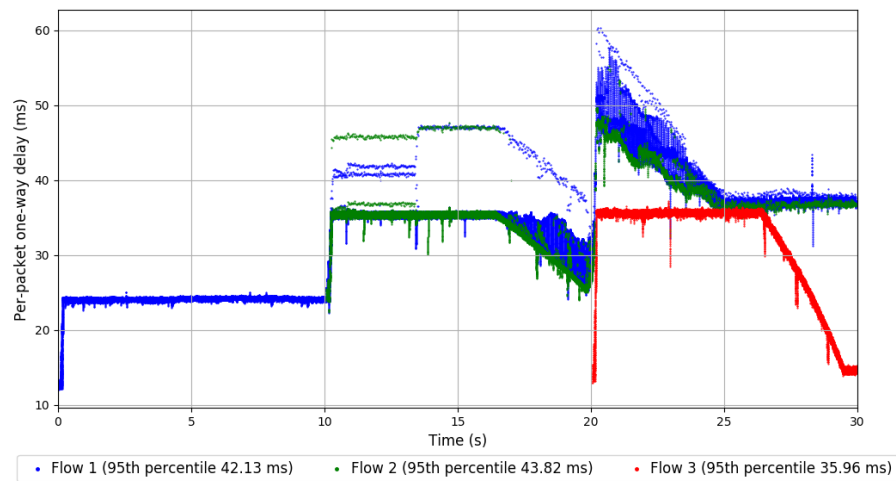
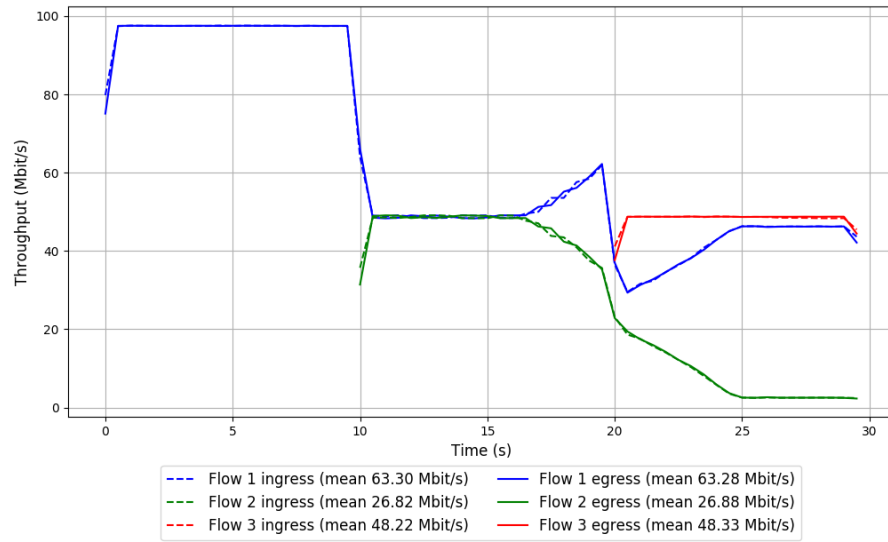


Run 9: Statistics of TCP Vegas

Start at: 2018-04-03 20:14:49
End at: 2018-04-03 20:15:19
Local clock offset: -0.68 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-04-04 00:34:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 41.716 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 63.28 Mbit/s
95th percentile per-packet one-way delay: 42.135 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 43.817 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 48.33 Mbit/s
95th percentile per-packet one-way delay: 35.957 ms
Loss rate: 0.26%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-03 20:35:44

End at: 2018-04-03 20:36:14

Local clock offset: 0.642 ms

Remote clock offset: 1.478 ms

Below is generated by plot.py at 2018-04-04 00:35:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 54.350 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 54.197 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 48.46 Mbit/s

95th percentile per-packet one-way delay: 37.721 ms

Loss rate: 0.13%

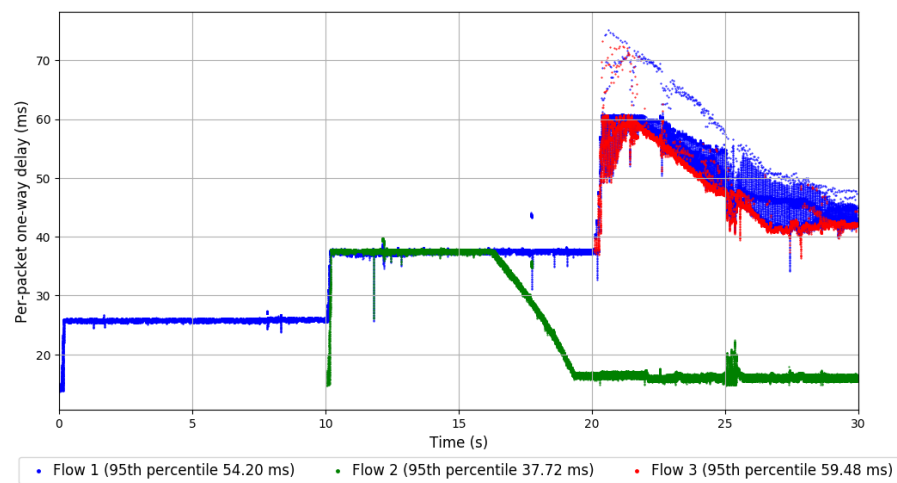
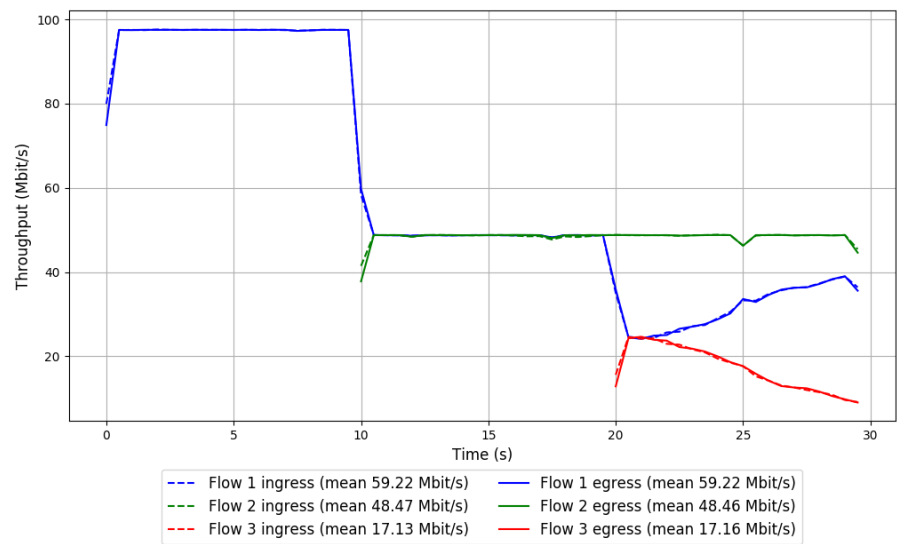
-- Flow 3:

Average throughput: 17.16 Mbit/s

95th percentile per-packet one-way delay: 59.475 ms

Loss rate: 0.30%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-03 17:20:23

End at: 2018-04-03 17:20:53

Local clock offset: 1.466 ms

Remote clock offset: 4.622 ms

Below is generated by plot.py at 2018-04-04 00:35:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 45.422 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 56.51 Mbit/s

95th percentile per-packet one-way delay: 34.244 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 45.577 ms

Loss rate: 0.21%

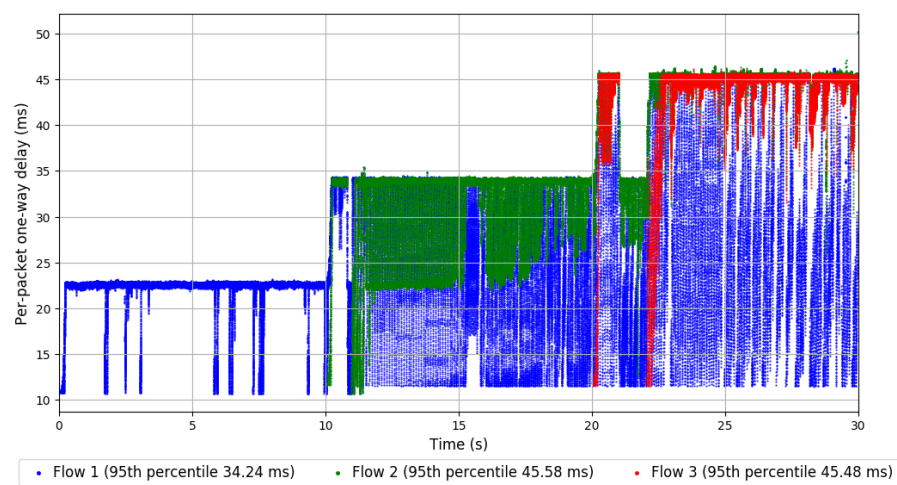
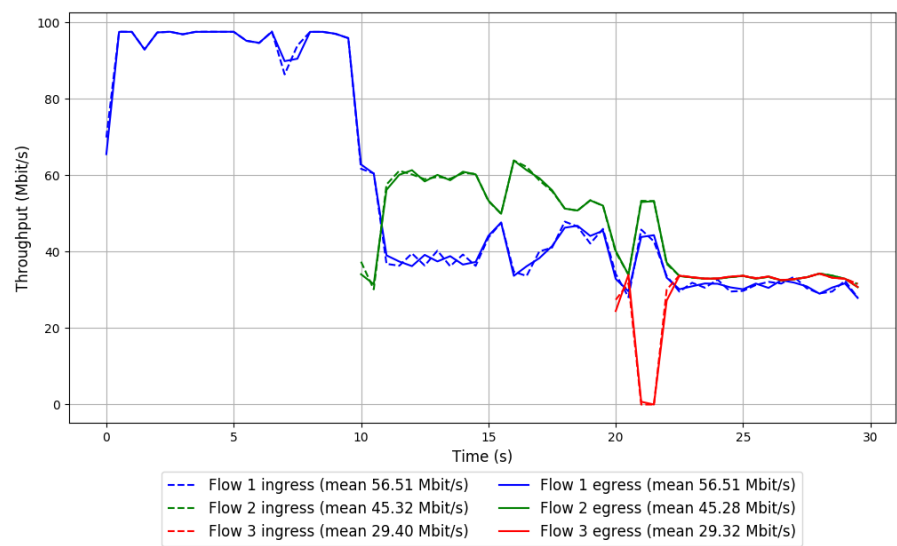
-- Flow 3:

Average throughput: 29.32 Mbit/s

95th percentile per-packet one-way delay: 45.483 ms

Loss rate: 0.64%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-03 17:41:49

End at: 2018-04-03 17:42:19

Local clock offset: -0.066 ms

Remote clock offset: 2.116 ms

Below is generated by plot.py at 2018-04-04 00:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 44.660 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 43.602 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 42.07 Mbit/s

95th percentile per-packet one-way delay: 50.020 ms

Loss rate: 0.20%

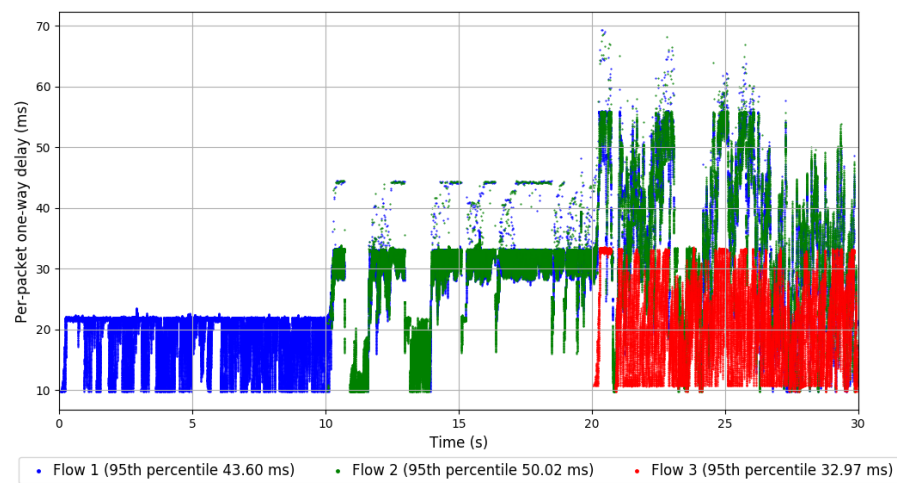
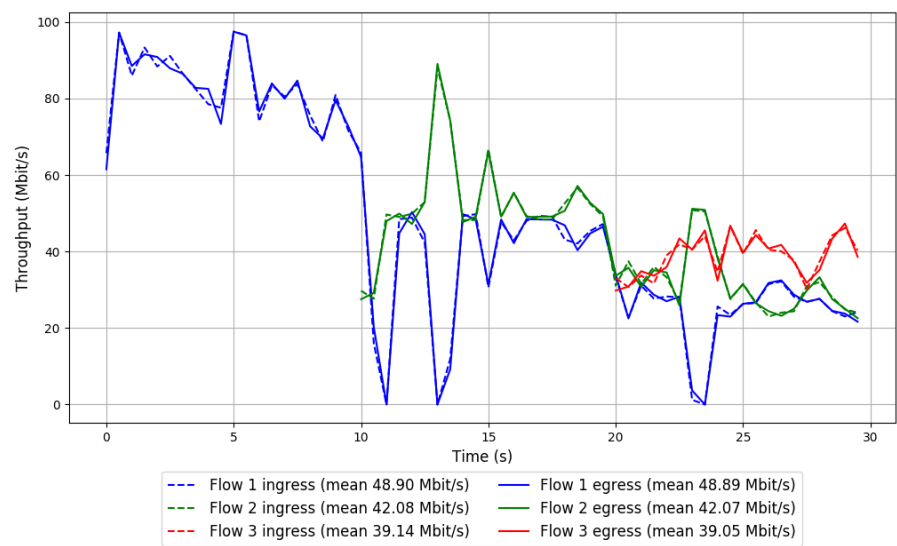
-- Flow 3:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 32.965 ms

Loss rate: 0.48%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

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

End at: 2018-04-03 18:03:33

Local clock offset: 1.664 ms

Remote clock offset: 0.858 ms

Below is generated by plot.py at 2018-04-04 00:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 42.651 ms

Loss rate: 4.46%

-- Flow 1:

Average throughput: 64.36 Mbit/s

95th percentile per-packet one-way delay: 40.290 ms

Loss rate: 3.25%

-- Flow 2:

Average throughput: 46.28 Mbit/s

95th percentile per-packet one-way delay: 43.247 ms

Loss rate: 4.68%

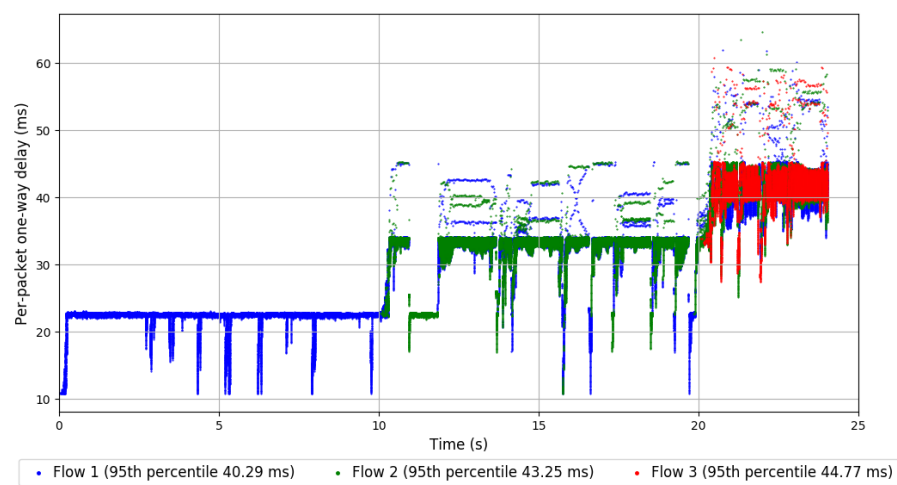
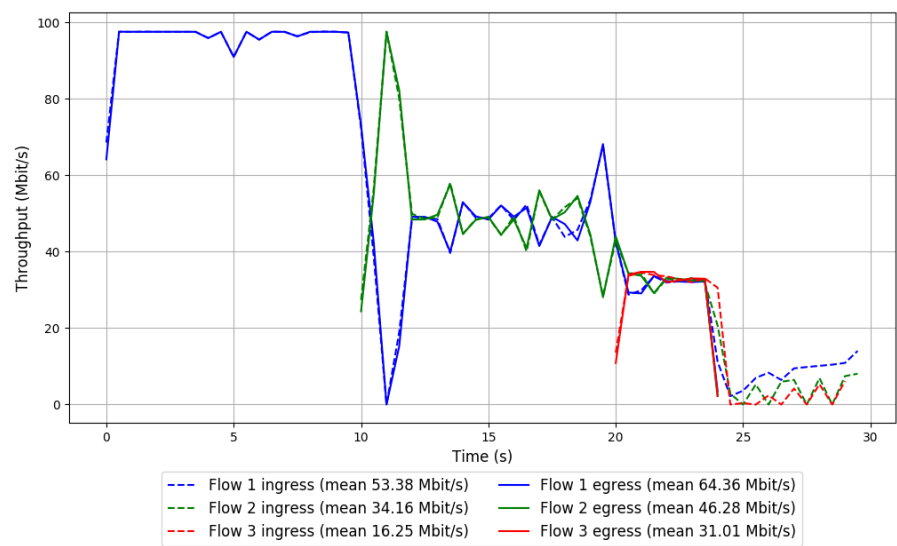
-- Flow 3:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 44.775 ms

Loss rate: 16.55%

Run 3: Report of Verus — Data Link

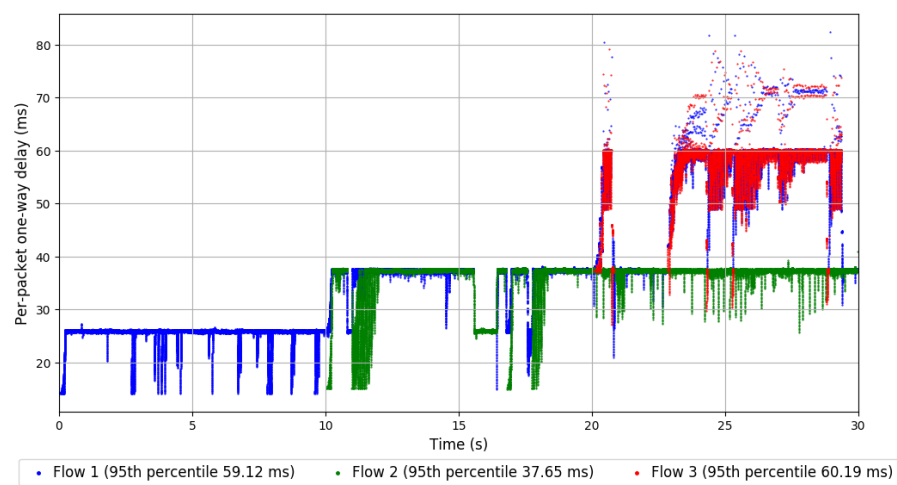
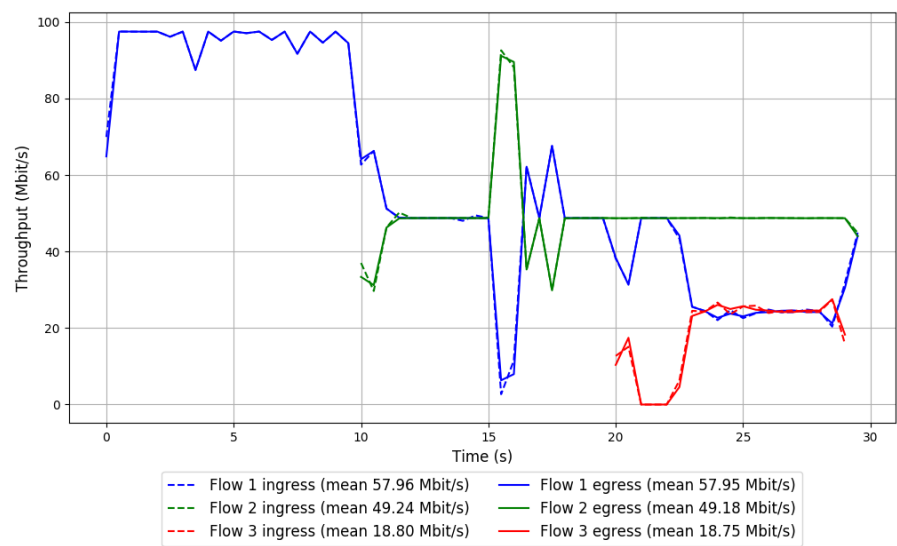


Run 4: Statistics of Verus

Start at: 2018-04-03 18:39:21
End at: 2018-04-03 18:39:51
Local clock offset: 4.885 ms
Remote clock offset: -2.472 ms

Below is generated by plot.py at 2018-04-04 00:35:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 59.755 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 59.123 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 49.18 Mbit/s
95th percentile per-packet one-way delay: 37.654 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 18.75 Mbit/s
95th percentile per-packet one-way delay: 60.192 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

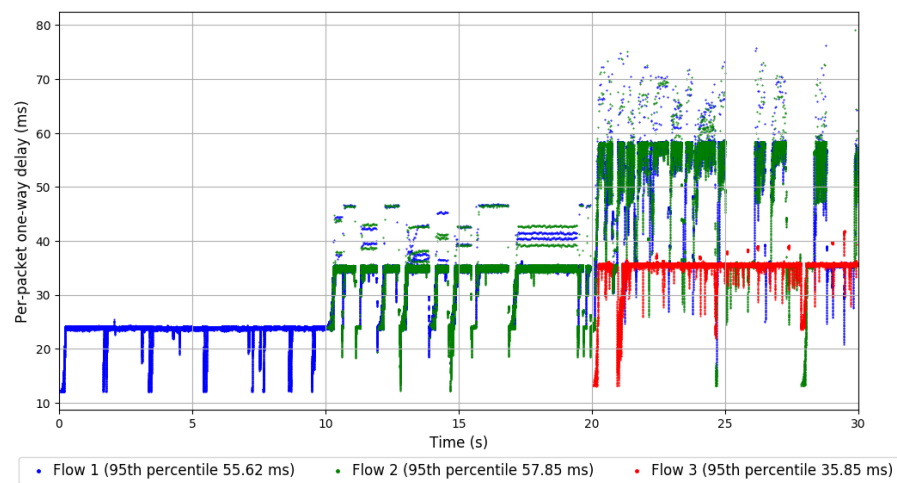
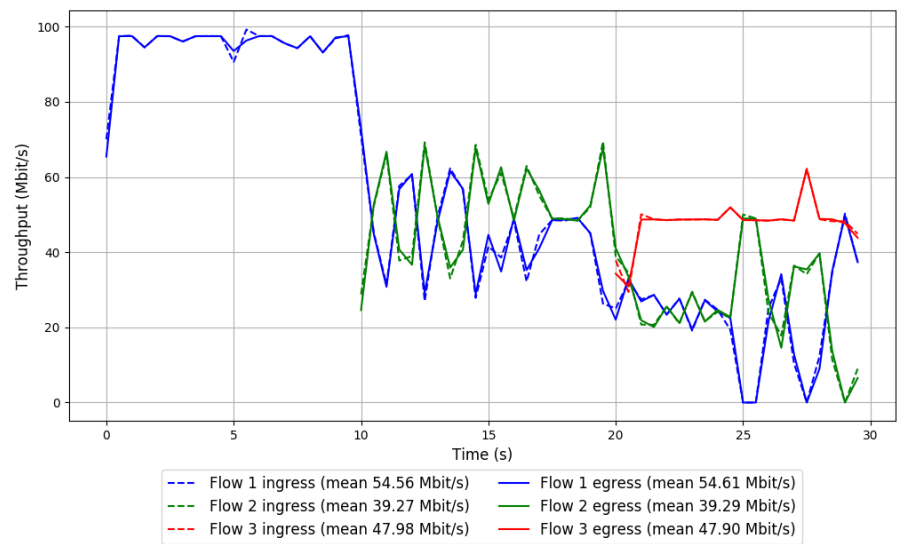


Run 5: Statistics of Verus

Start at: 2018-04-03 19:00:17
End at: 2018-04-03 19:00:47
Local clock offset: 2.282 ms
Remote clock offset: -1.412 ms

Below is generated by plot.py at 2018-04-04 00:35:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 56.222 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 54.61 Mbit/s
95th percentile per-packet one-way delay: 55.617 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.29 Mbit/s
95th percentile per-packet one-way delay: 57.851 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 47.90 Mbit/s
95th percentile per-packet one-way delay: 35.848 ms
Loss rate: 0.47%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-03 19:21:14

End at: 2018-04-03 19:21:44

Local clock offset: 2.345 ms

Remote clock offset: 4.331 ms

Below is generated by plot.py at 2018-04-04 00:35:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 57.755 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 56.67 Mbit/s

95th percentile per-packet one-way delay: 57.694 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 57.928 ms

Loss rate: 0.24%

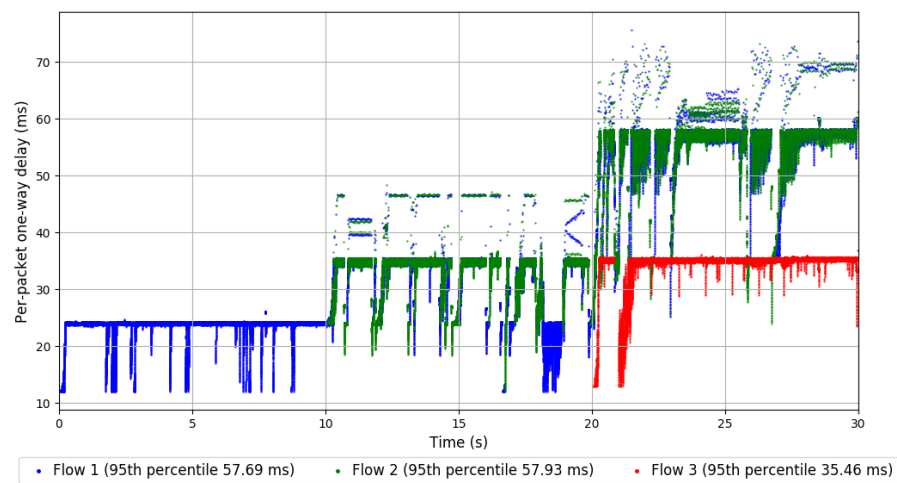
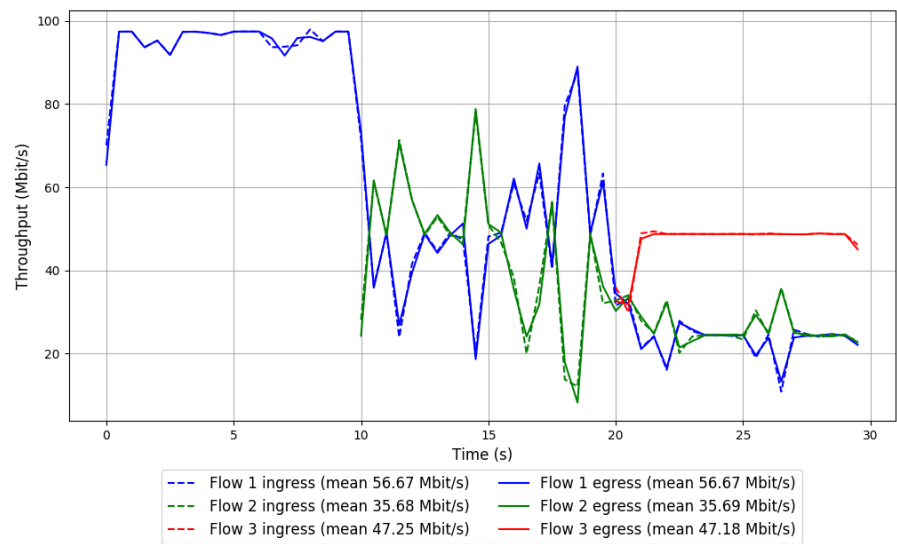
-- Flow 3:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 35.459 ms

Loss rate: 0.48%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-03 19:42:11

End at: 2018-04-03 19:42:41

Local clock offset: 2.78 ms

Remote clock offset: 0.24 ms

Below is generated by plot.py at 2018-04-04 00:35:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 48.603 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 48.361 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.35 Mbit/s

95th percentile per-packet one-way delay: 48.555 ms

Loss rate: 0.23%

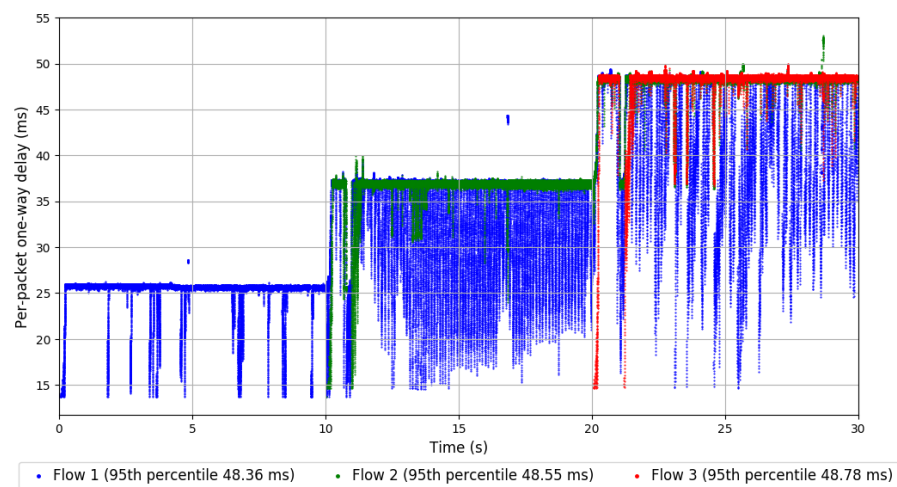
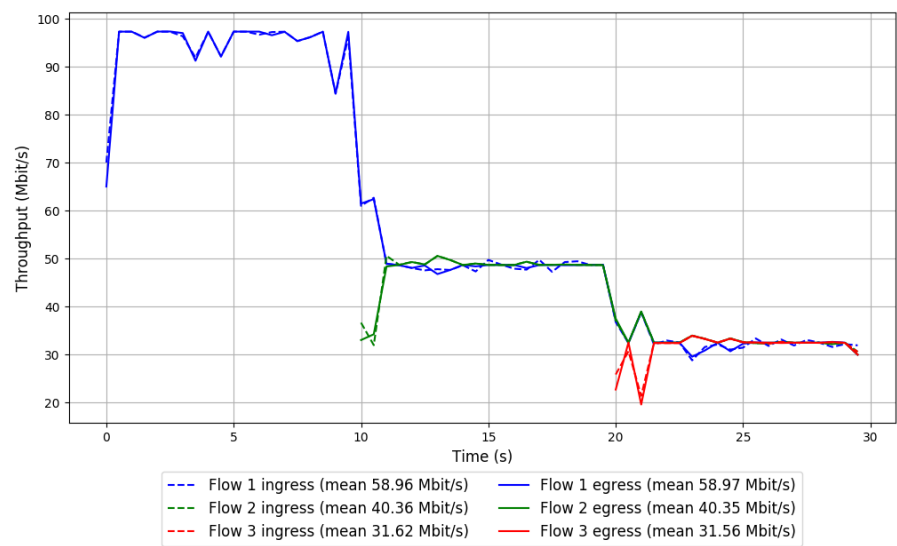
-- Flow 3:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 48.776 ms

Loss rate: 0.60%

Run 7: Report of Verus — Data Link

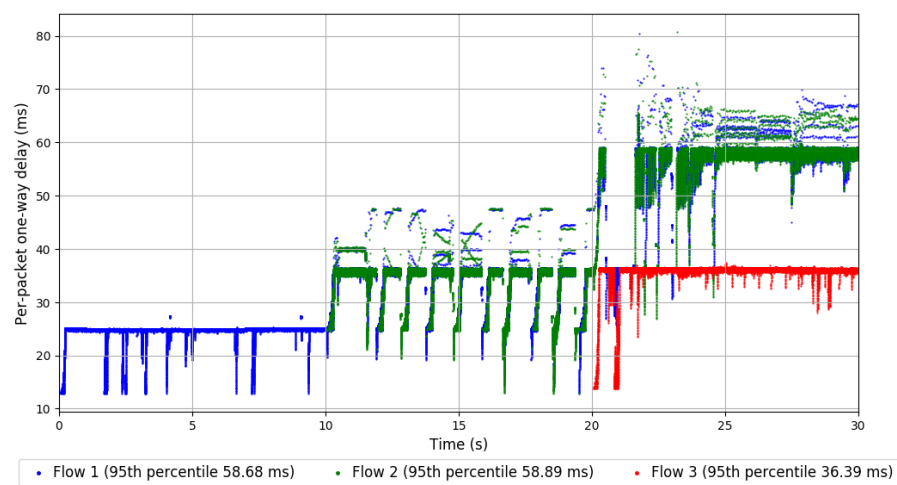
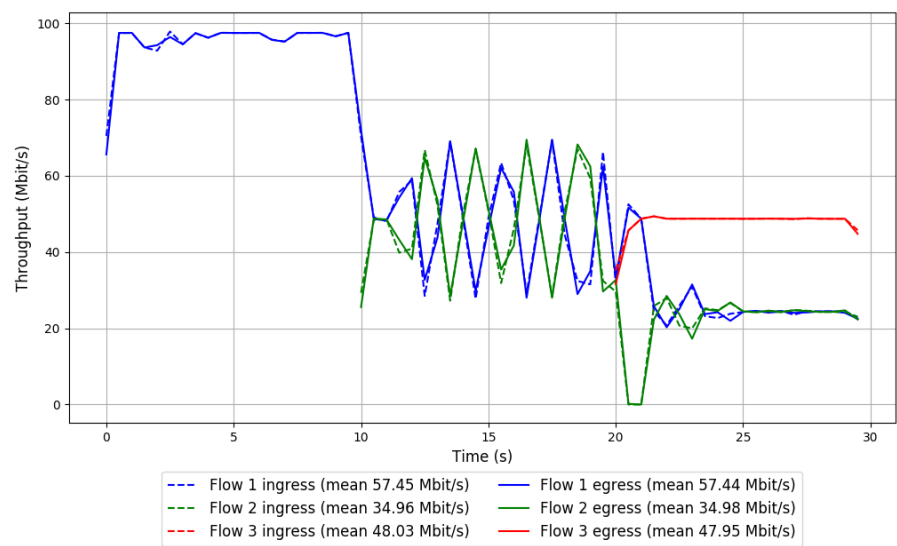


Run 8: Statistics of Verus

Start at: 2018-04-03 20:03:08
End at: 2018-04-03 20:03:38
Local clock offset: 0.951 ms
Remote clock offset: -2.199 ms

Below is generated by plot.py at 2018-04-04 00:36:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 58.758 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 57.44 Mbit/s
95th percentile per-packet one-way delay: 58.678 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 58.894 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 47.95 Mbit/s
95th percentile per-packet one-way delay: 36.393 ms
Loss rate: 0.47%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-03 20:24:05

End at: 2018-04-03 20:24:35

Local clock offset: 1.269 ms

Remote clock offset: 0.784 ms

Below is generated by plot.py at 2018-04-04 00:36:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 59.243 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 55.85 Mbit/s

95th percentile per-packet one-way delay: 58.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 37.779 ms

Loss rate: 0.22%

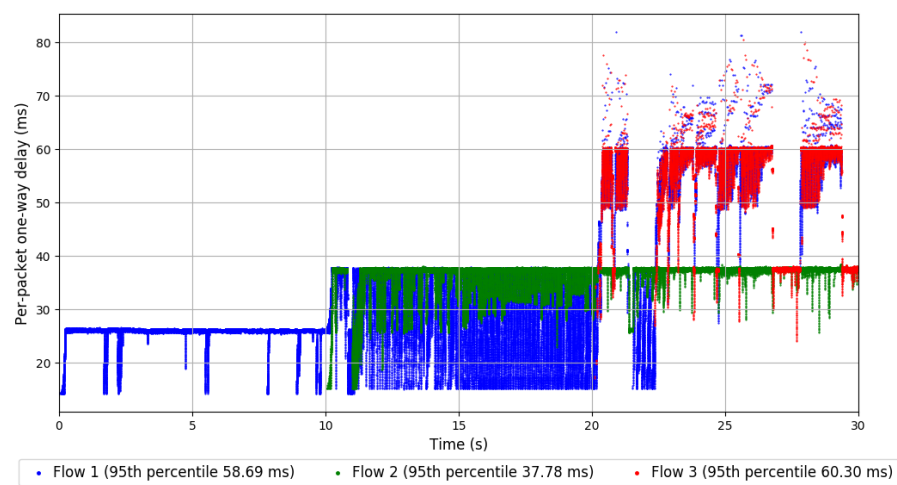
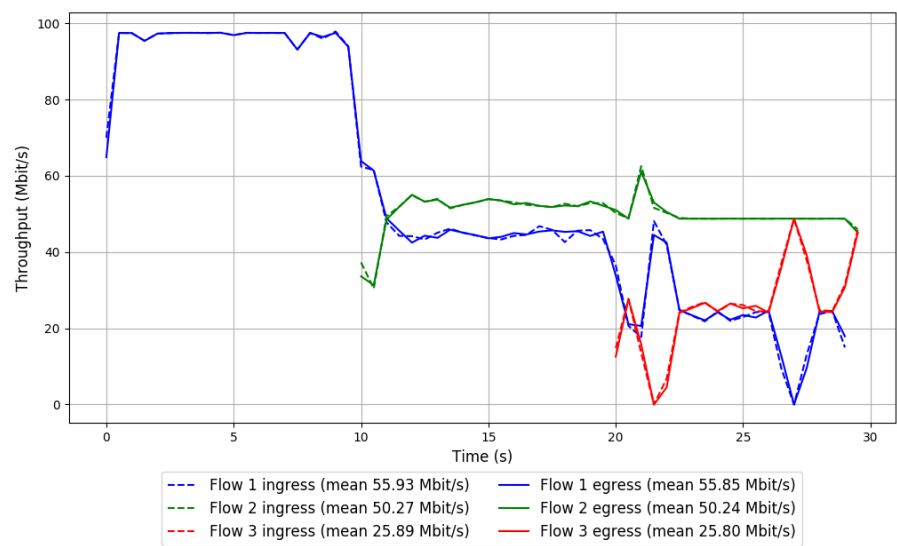
-- Flow 3:

Average throughput: 25.80 Mbit/s

95th percentile per-packet one-way delay: 60.301 ms

Loss rate: 0.88%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-03 20:45:01

End at: 2018-04-03 20:45:31

Local clock offset: 2.672 ms

Remote clock offset: 1.505 ms

Below is generated by plot.py at 2018-04-04 00:36:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 60.086 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 52.28 Mbit/s

95th percentile per-packet one-way delay: 59.973 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 60.338 ms

Loss rate: 0.22%

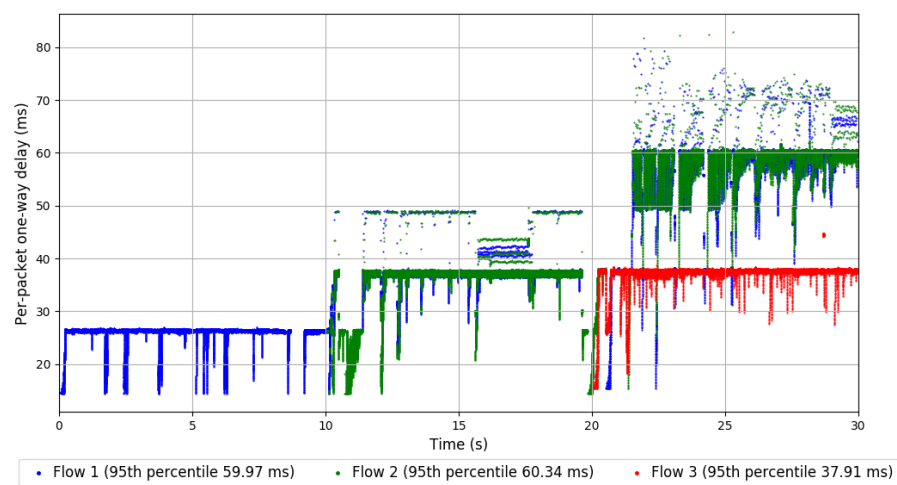
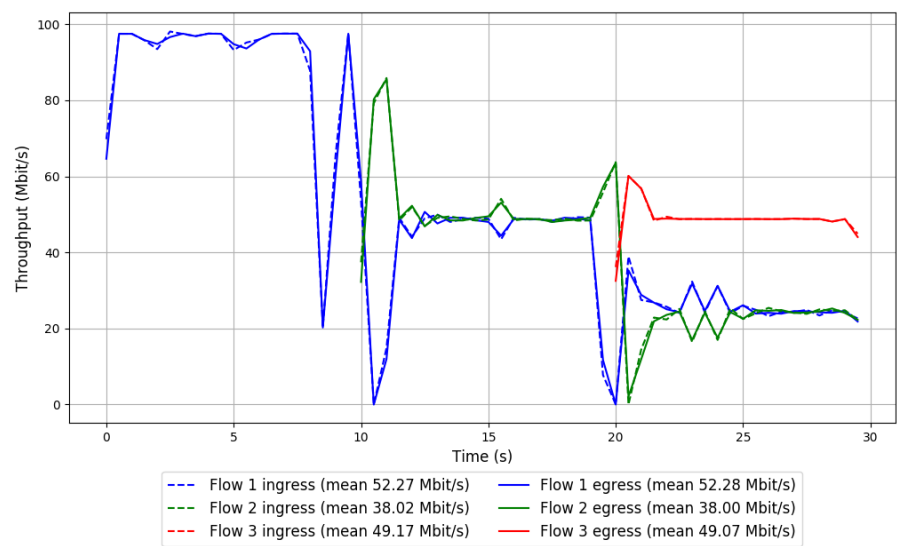
-- Flow 3:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 37.912 ms

Loss rate: 0.46%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-03 17:12:03

End at: 2018-04-03 17:12:33

Local clock offset: 1.638 ms

Remote clock offset: 7.7 ms

Below is generated by plot.py at 2018-04-04 00:37:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 17.942 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 55.85 Mbit/s

95th percentile per-packet one-way delay: 17.242 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 18.624 ms

Loss rate: 0.09%

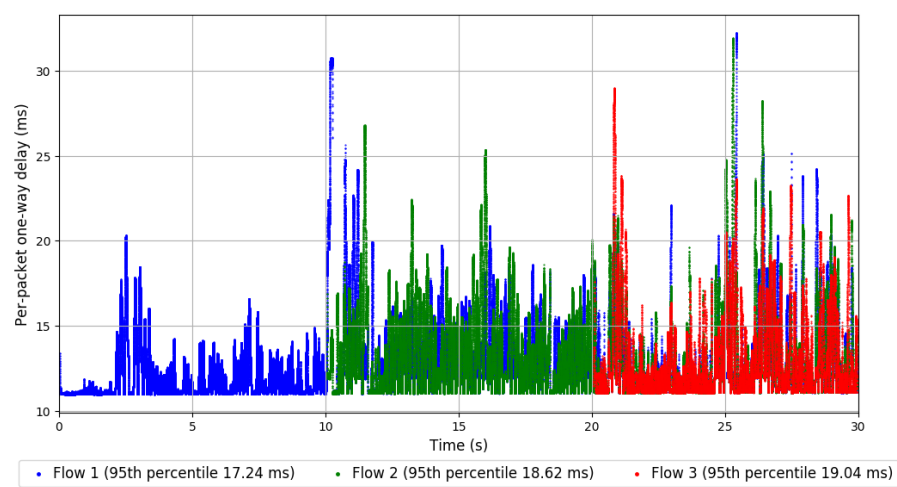
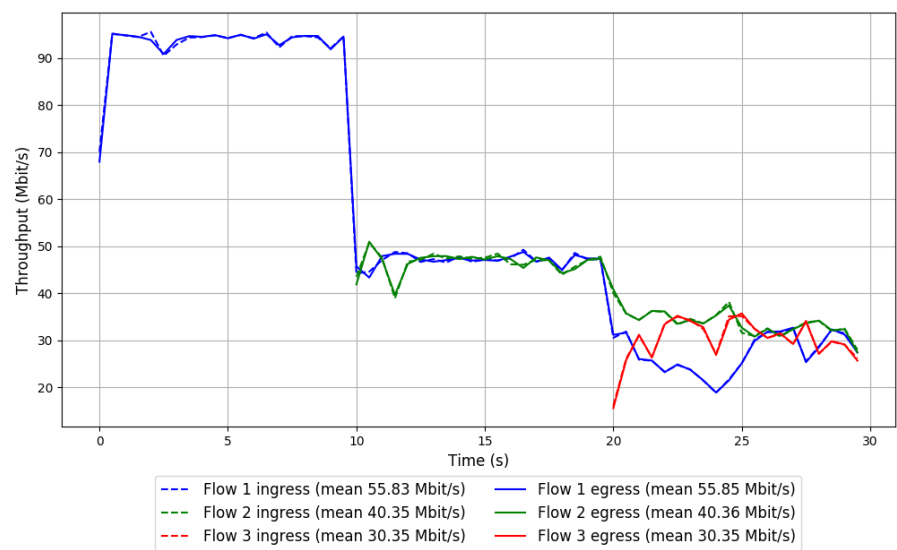
-- Flow 3:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 19.043 ms

Loss rate: 0.21%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-03 17:33:32

End at: 2018-04-03 17:34:02

Local clock offset: 0.3 ms

Remote clock offset: 1.852 ms

Below is generated by plot.py at 2018-04-04 00:37:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.18 Mbit/s

95th percentile per-packet one-way delay: 19.838 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 15.664 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 25.10 Mbit/s

95th percentile per-packet one-way delay: 19.486 ms

Loss rate: 0.24%

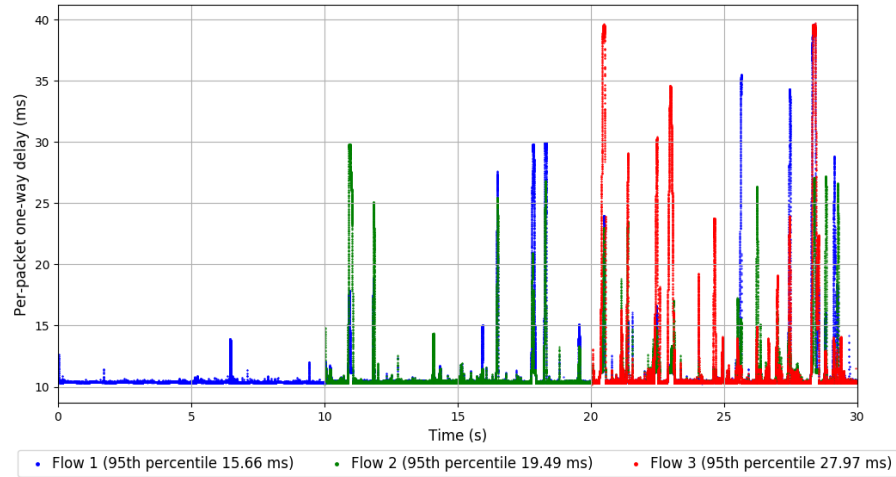
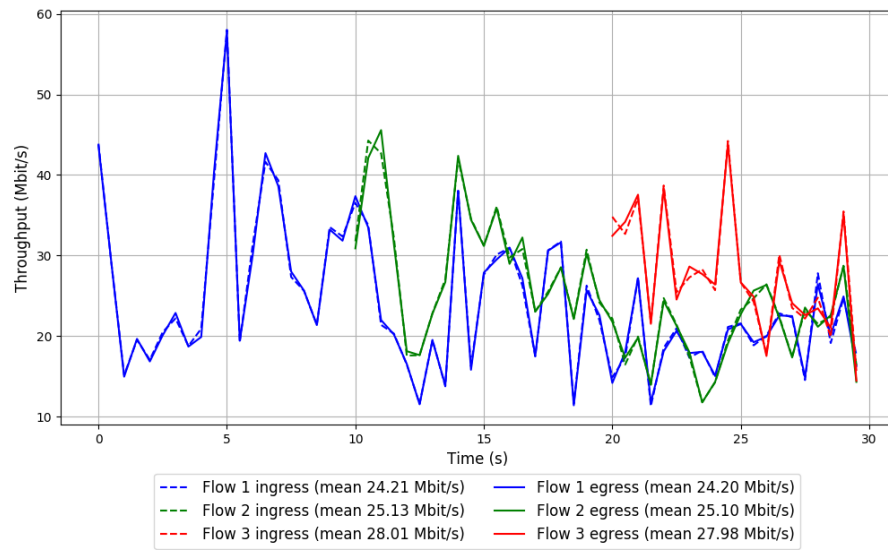
-- Flow 3:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 27.967 ms

Loss rate: 0.34%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-03 17:54:52

End at: 2018-04-03 17:55:22

Local clock offset: 1.079 ms

Remote clock offset: 2.151 ms

Below is generated by plot.py at 2018-04-04 00:37:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.23 Mbit/s

95th percentile per-packet one-way delay: 22.086 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 37.54 Mbit/s

95th percentile per-packet one-way delay: 21.087 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 29.96 Mbit/s

95th percentile per-packet one-way delay: 21.835 ms

Loss rate: 0.11%

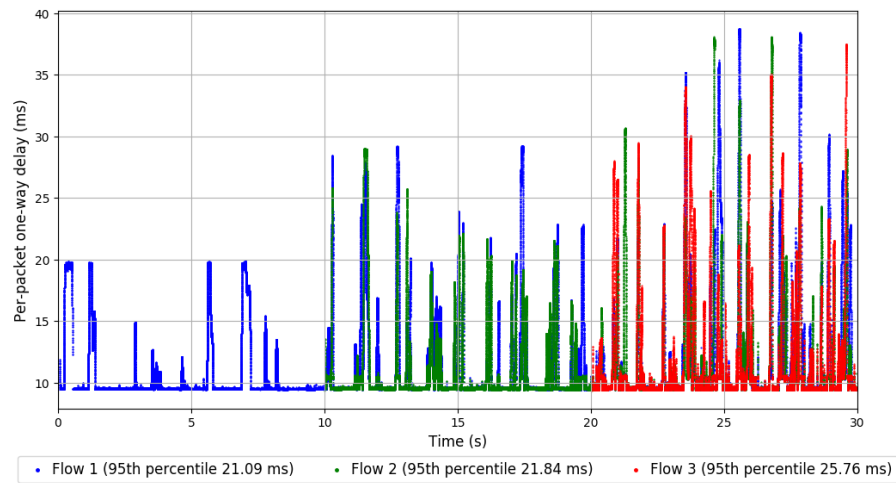
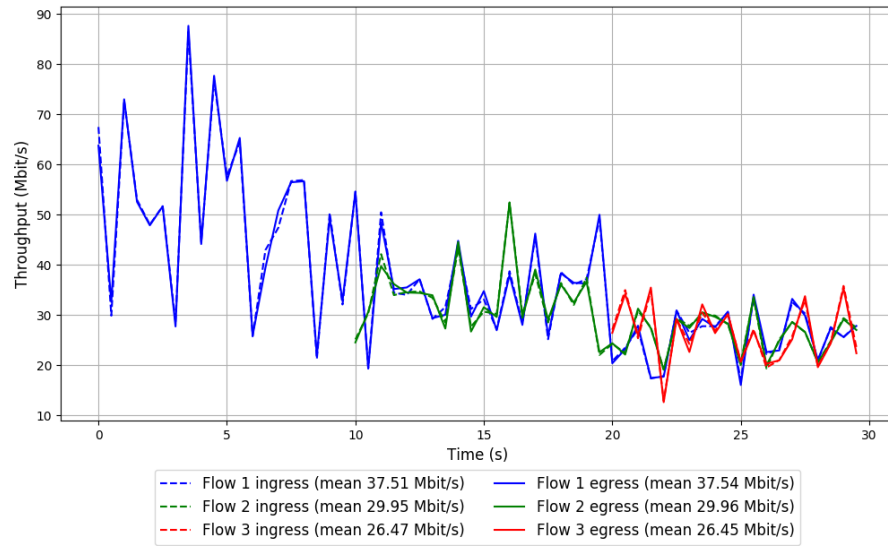
-- Flow 3:

Average throughput: 26.45 Mbit/s

95th percentile per-packet one-way delay: 25.756 ms

Loss rate: 0.39%

Run 3: Report of Copa — Data Link

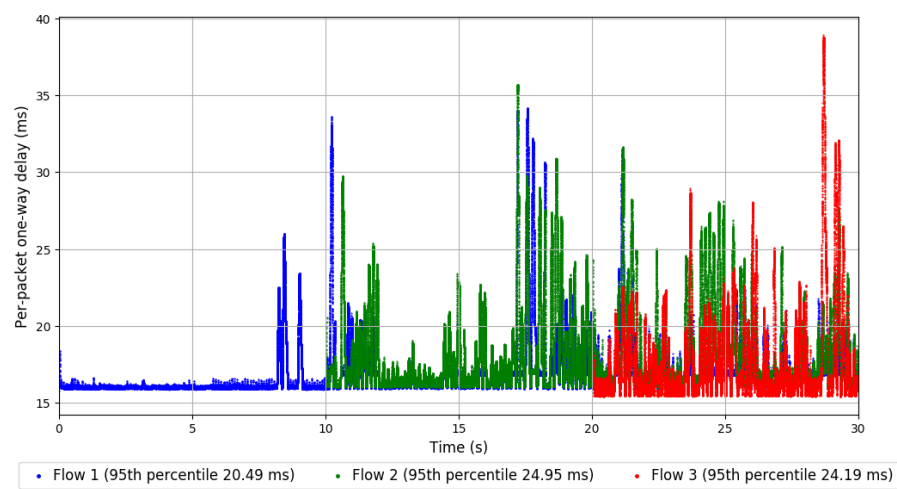
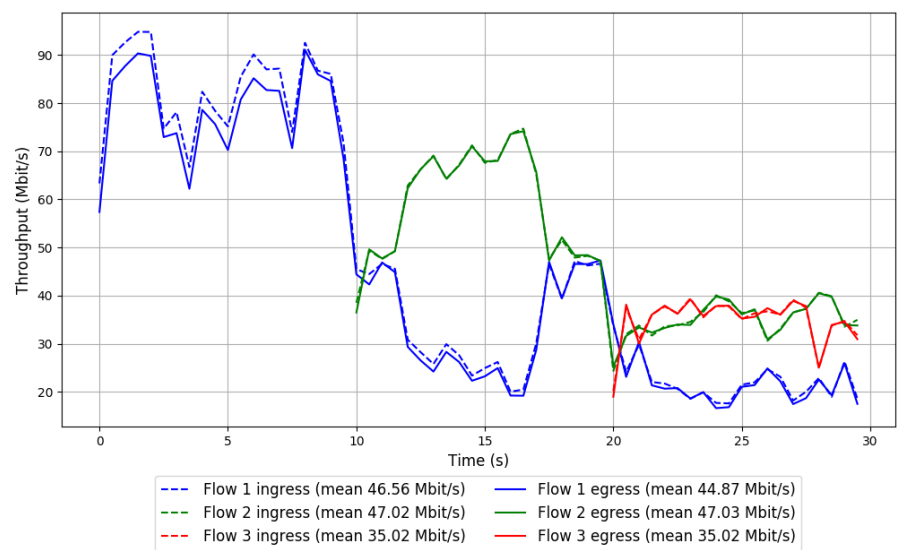


Run 4: Statistics of Copa

Start at: 2018-04-03 18:31:16
End at: 2018-04-03 18:31:46
Local clock offset: 1.639 ms
Remote clock offset: -3.972 ms

Below is generated by plot.py at 2018-04-04 00:38:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 23.017 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 20.493 ms
Loss rate: 3.71%
-- Flow 2:
Average throughput: 47.03 Mbit/s
95th percentile per-packet one-way delay: 24.946 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 24.186 ms
Loss rate: 0.27%

Run 4: Report of Copa — Data Link

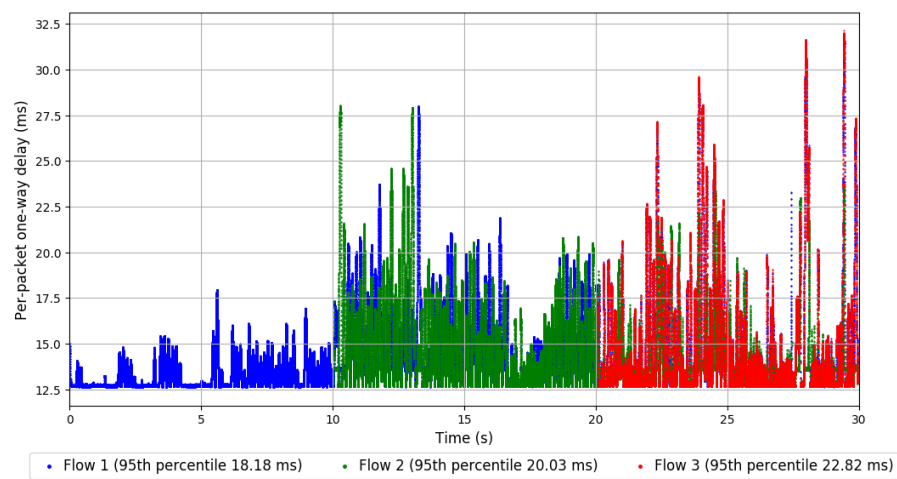
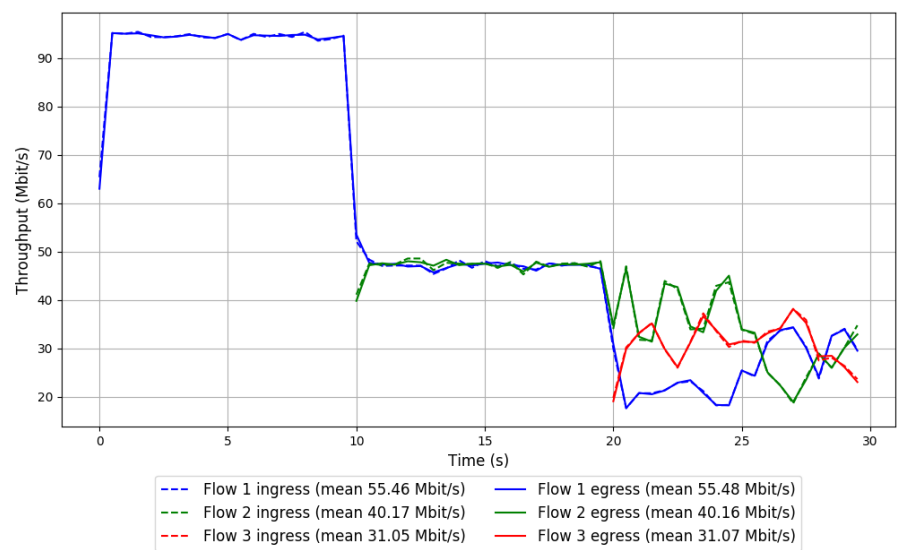


Run 5: Statistics of Copa

Start at: 2018-04-03 18:52:09
End at: 2018-04-03 18:52:39
Local clock offset: 2.841 ms
Remote clock offset: -3.913 ms

Below is generated by plot.py at 2018-04-04 00:38:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 19.384 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 55.48 Mbit/s
95th percentile per-packet one-way delay: 18.176 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 20.029 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 22.825 ms
Loss rate: 0.22%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-03 19:13:08

End at: 2018-04-03 19:13:38

Local clock offset: 5.163 ms

Remote clock offset: 2.606 ms

Below is generated by plot.py at 2018-04-04 00:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 20.448 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 19.976 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 21.465 ms

Loss rate: 0.10%

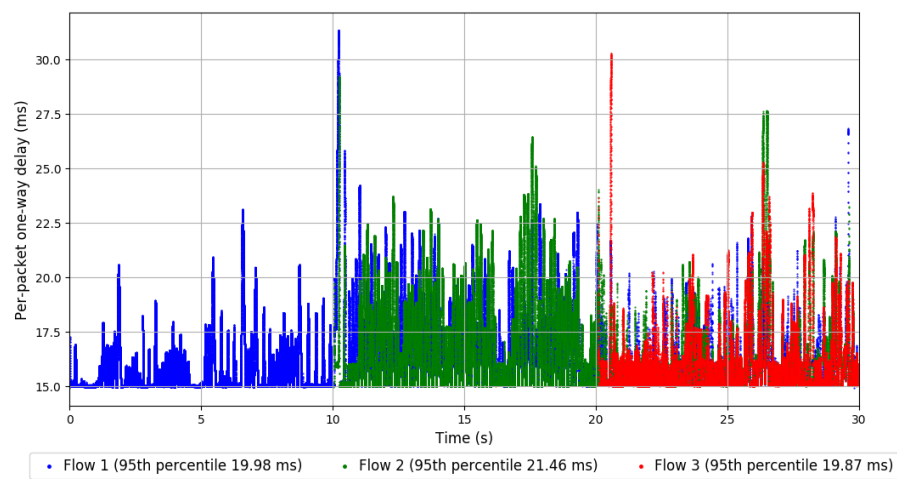
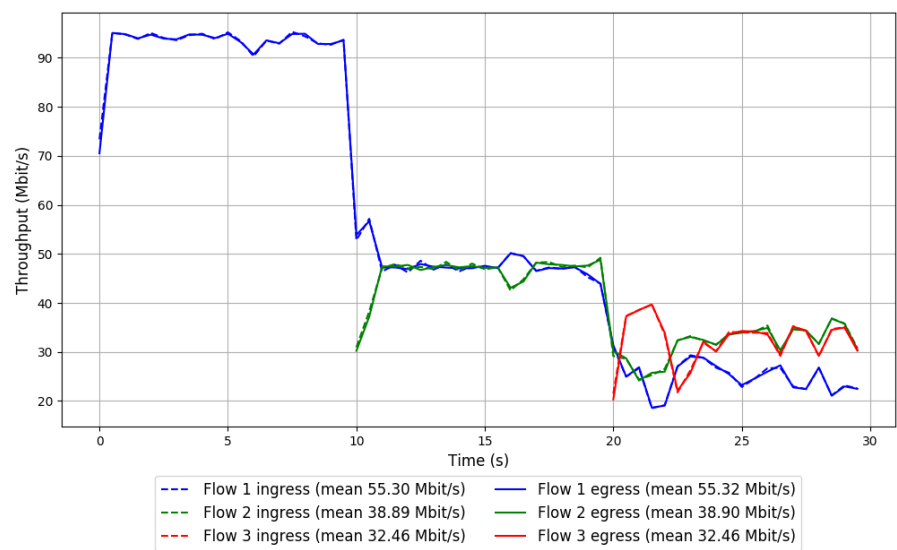
-- Flow 3:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 19.868 ms

Loss rate: 0.25%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-03 19:34:04

End at: 2018-04-03 19:34:34

Local clock offset: 2.579 ms

Remote clock offset: 3.665 ms

Below is generated by plot.py at 2018-04-04 00:39:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 20.057 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 19.670 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 18.603 ms

Loss rate: 0.12%

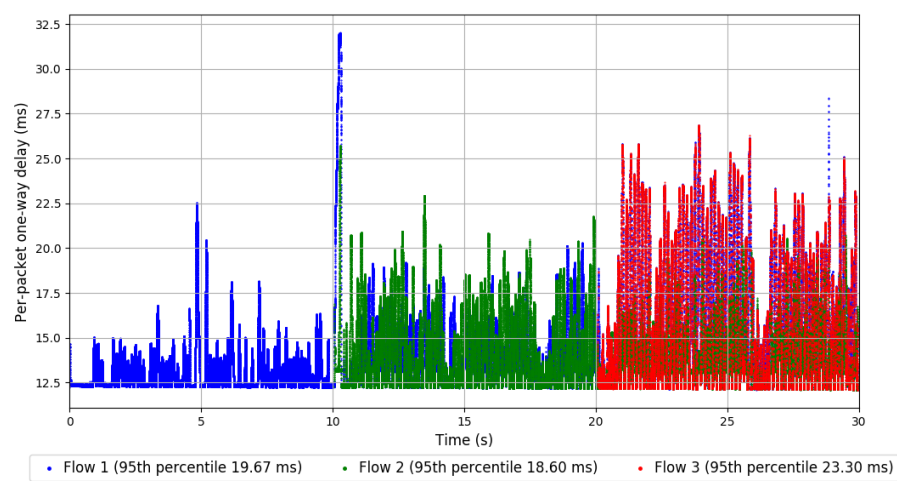
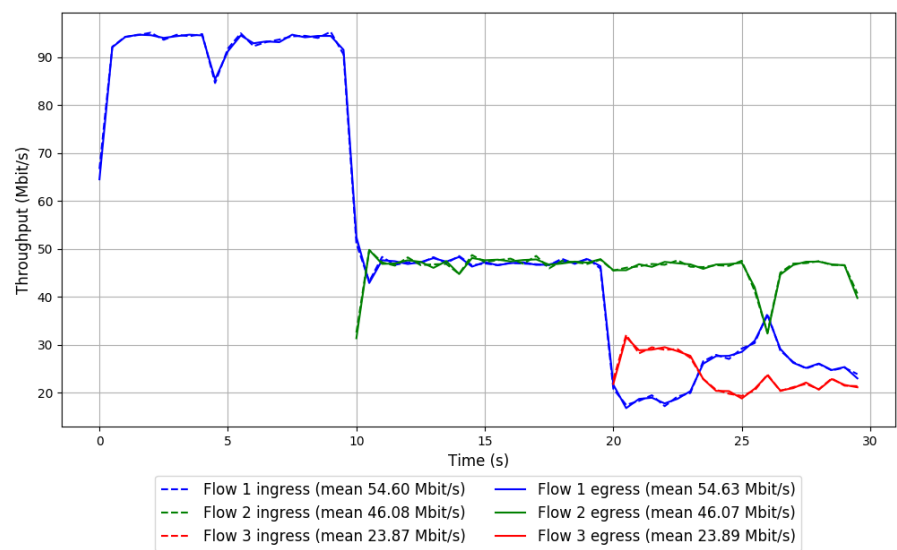
-- Flow 3:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 23.303 ms

Loss rate: 0.18%

Run 7: Report of Copa — Data Link

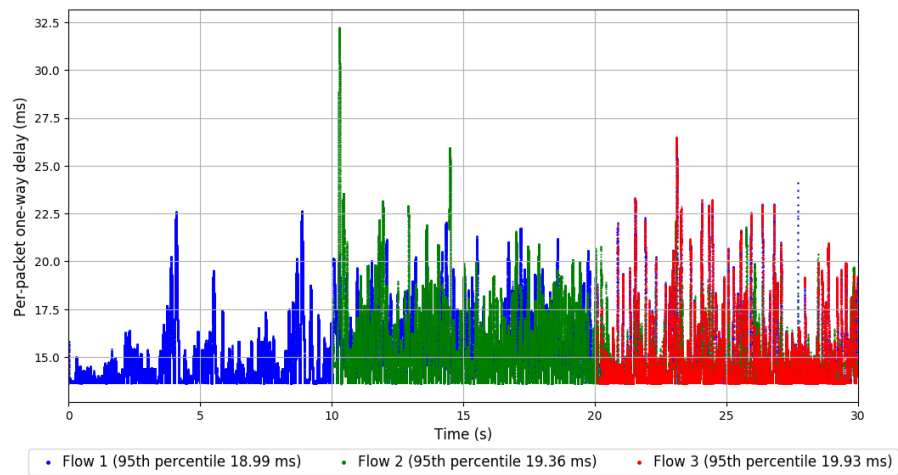
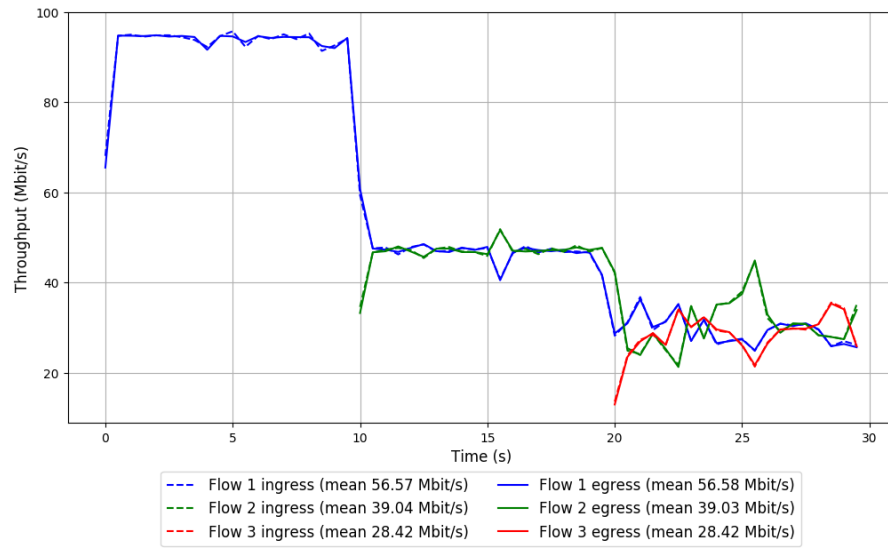


Run 8: Statistics of Copa

Start at: 2018-04-03 19:55:01
End at: 2018-04-03 19:55:31
Local clock offset: 1.597 ms
Remote clock offset: -2.119 ms

Below is generated by plot.py at 2018-04-04 00:39:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 19.185 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 18.989 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.03 Mbit/s
95th percentile per-packet one-way delay: 19.355 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 19.932 ms
Loss rate: 0.24%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-03 20:15:58

End at: 2018-04-03 20:16:28

Local clock offset: -1.403 ms

Remote clock offset: 0.348 ms

Below is generated by plot.py at 2018-04-04 00:39:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 16.335 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 57.69 Mbit/s

95th percentile per-packet one-way delay: 16.097 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 36.08 Mbit/s

95th percentile per-packet one-way delay: 17.254 ms

Loss rate: 0.10%

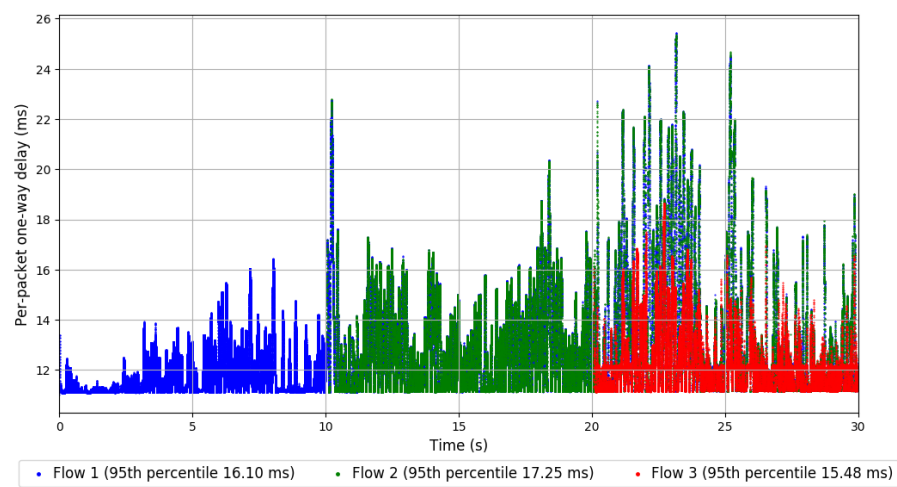
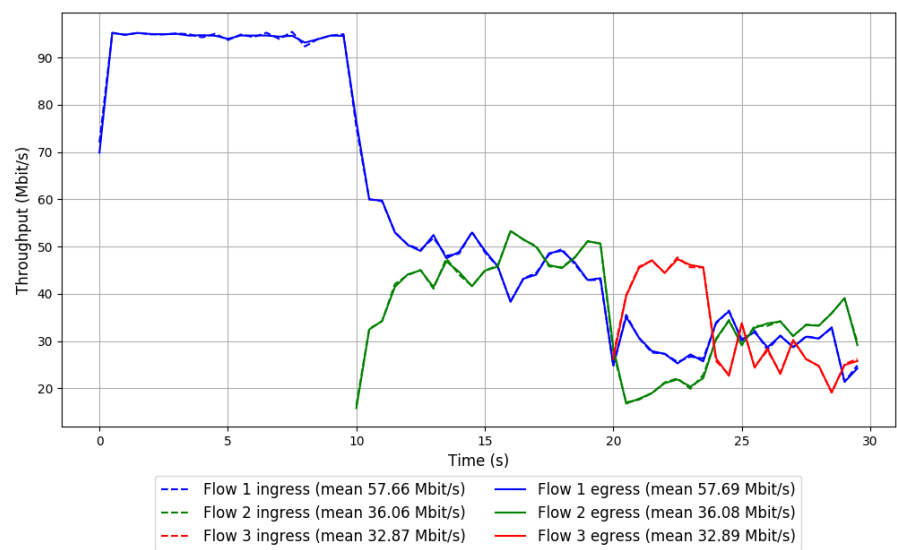
-- Flow 3:

Average throughput: 32.89 Mbit/s

95th percentile per-packet one-way delay: 15.477 ms

Loss rate: 0.17%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-03 20:36:53

End at: 2018-04-03 20:37:23

Local clock offset: 1.65 ms

Remote clock offset: 2.225 ms

Below is generated by plot.py at 2018-04-04 00:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 19.532 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 19.063 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 20.151 ms

Loss rate: 0.12%

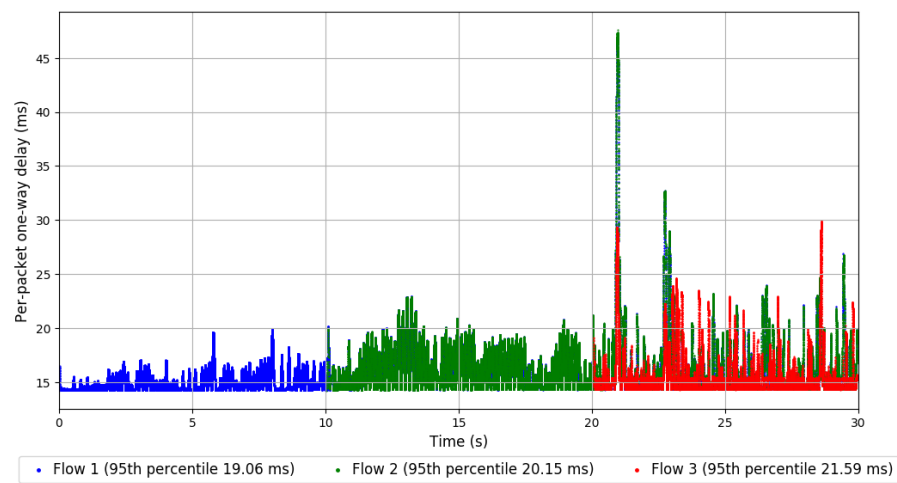
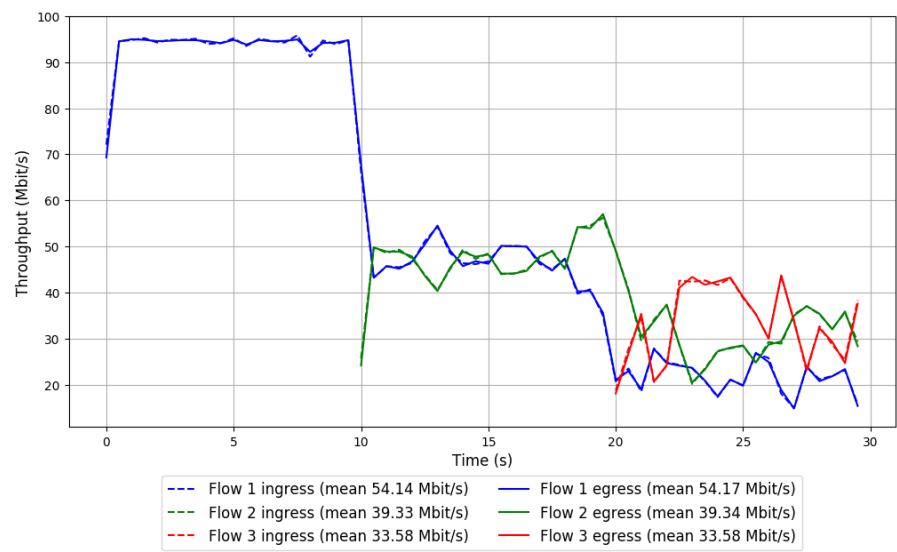
-- Flow 3:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 21.585 ms

Loss rate: 0.29%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-03 17:01:33

End at: 2018-04-03 17:02:03

Local clock offset: 1.96 ms

Remote clock offset: 5.482 ms

Below is generated by plot.py at 2018-04-04 00:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.21 Mbit/s

95th percentile per-packet one-way delay: 33.078 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 31.276 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 33.740 ms

Loss rate: 0.20%

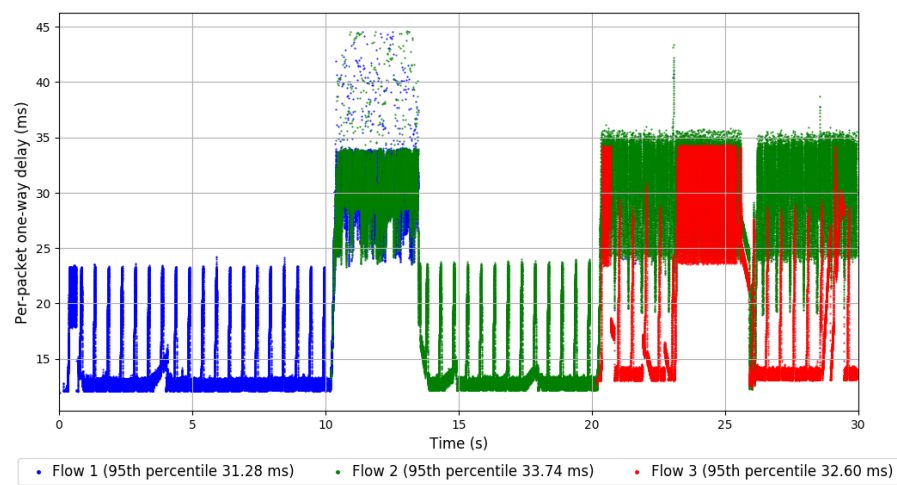
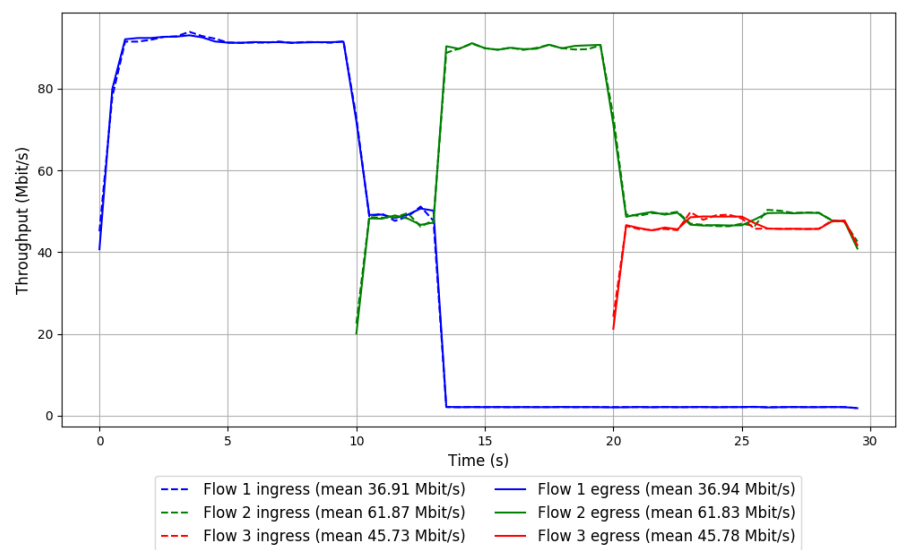
-- Flow 3:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 32.601 ms

Loss rate: 0.14%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-03 17:22:47

End at: 2018-04-03 17:23:17

Local clock offset: 4.9 ms

Remote clock offset: 3.506 ms

Below is generated by plot.py at 2018-04-04 00:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 45.929 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 50.78 Mbit/s

95th percentile per-packet one-way delay: 42.969 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.60 Mbit/s

95th percentile per-packet one-way delay: 31.624 ms

Loss rate: 0.13%

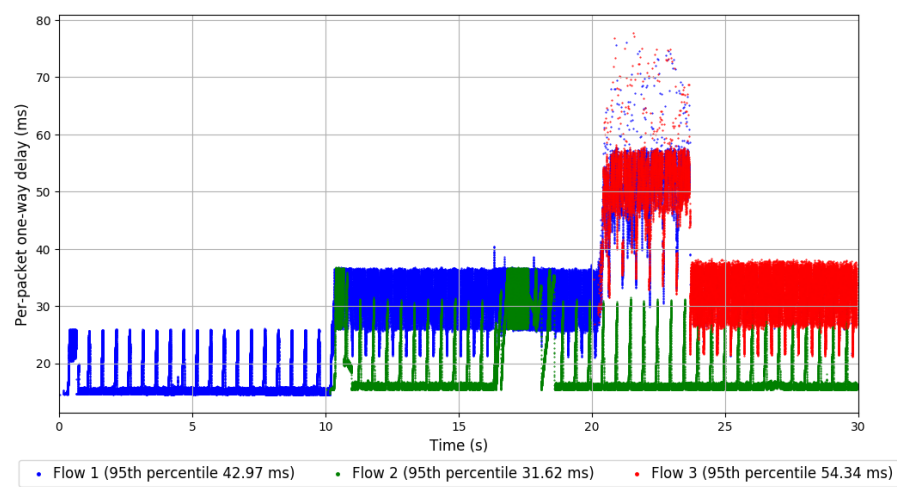
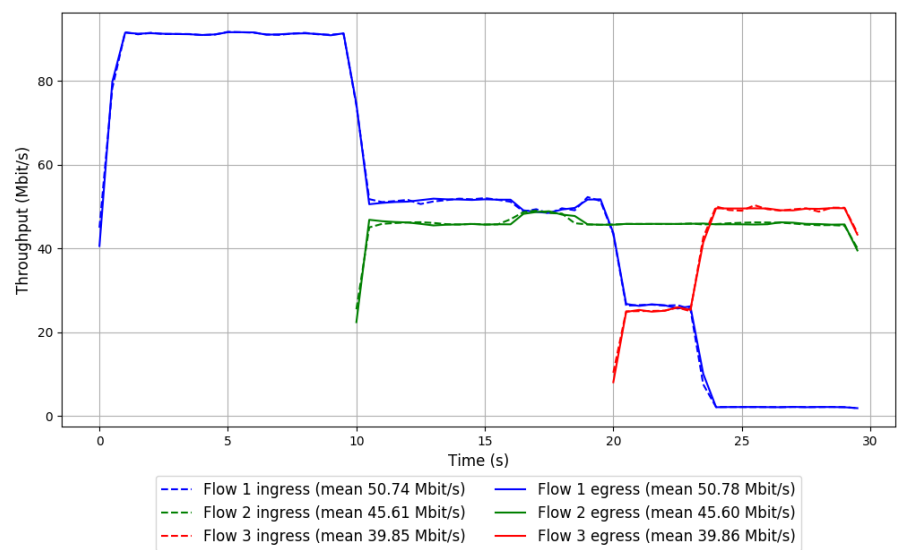
-- Flow 3:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.43%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-03 17:44:16

End at: 2018-04-03 17:44:46

Local clock offset: 0.658 ms

Remote clock offset: 1.318 ms

Below is generated by plot.py at 2018-04-04 00:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 32.659 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 32.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 32.925 ms

Loss rate: 0.22%

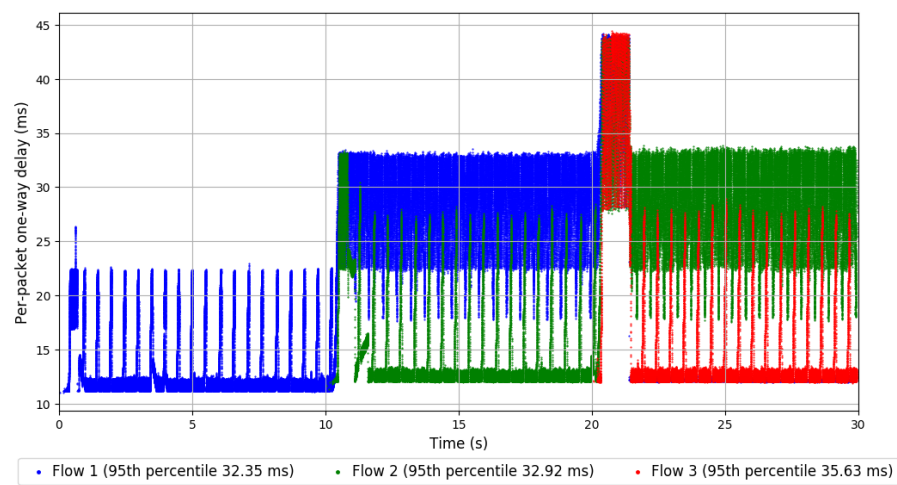
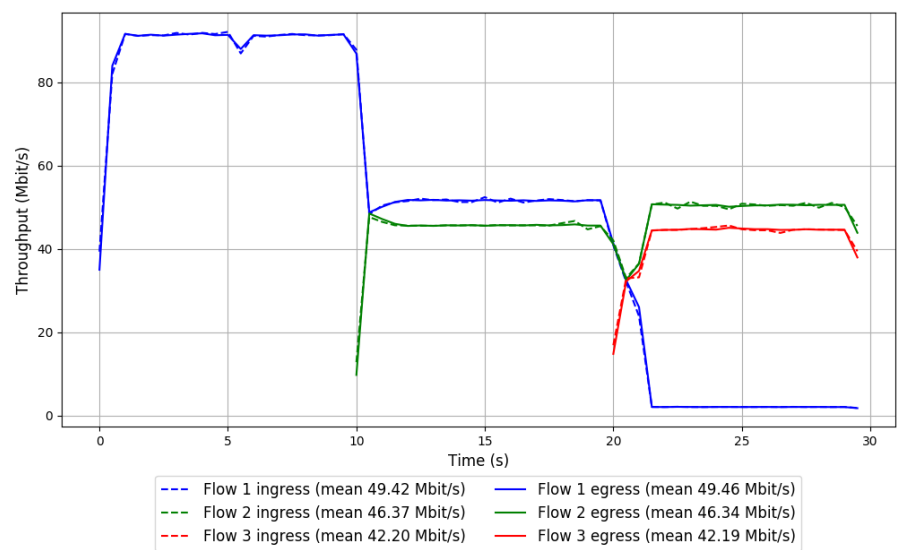
-- Flow 3:

Average throughput: 42.19 Mbit/s

95th percentile per-packet one-way delay: 35.627 ms

Loss rate: 0.31%

Run 3: Report of FillP — Data Link

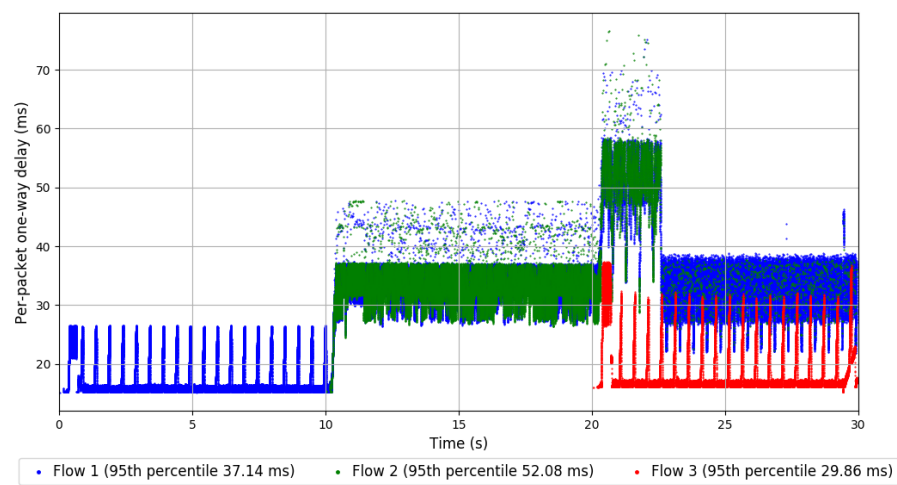
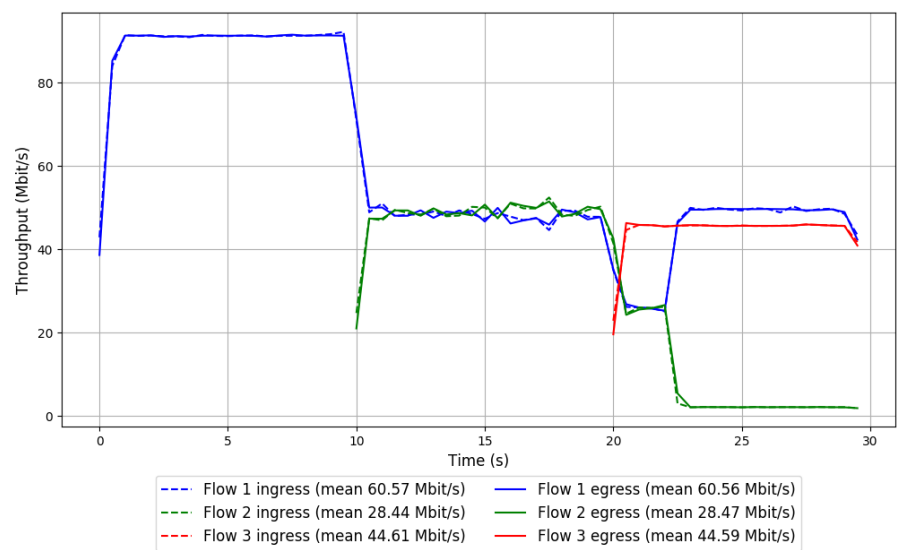


Run 4: Statistics of FillP

Start at: 2018-04-03 18:17:38
End at: 2018-04-03 18:18:08
Local clock offset: 4.886 ms
Remote clock offset: -0.659 ms

Below is generated by plot.py at 2018-04-04 00:40:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 37.469 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 60.56 Mbit/s
95th percentile per-packet one-way delay: 37.137 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 52.081 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 44.59 Mbit/s
95th percentile per-packet one-way delay: 29.862 ms
Loss rate: 0.28%

Run 4: Report of FillP — Data Link

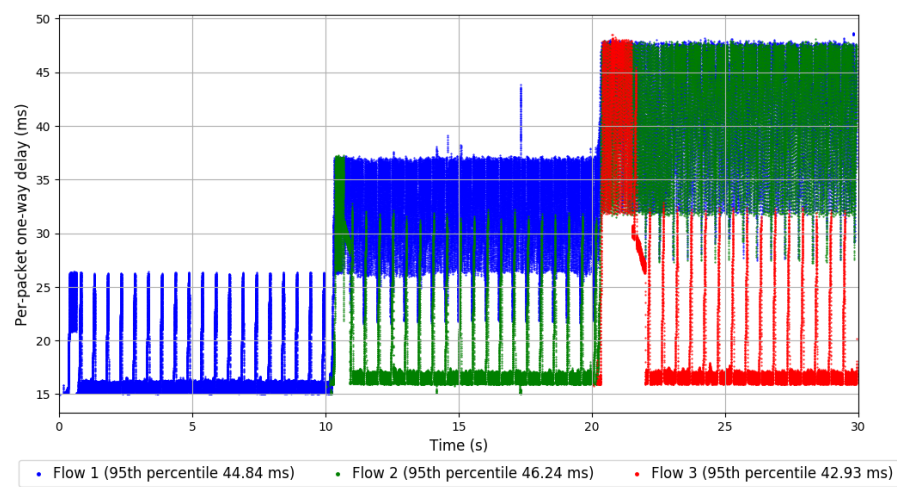
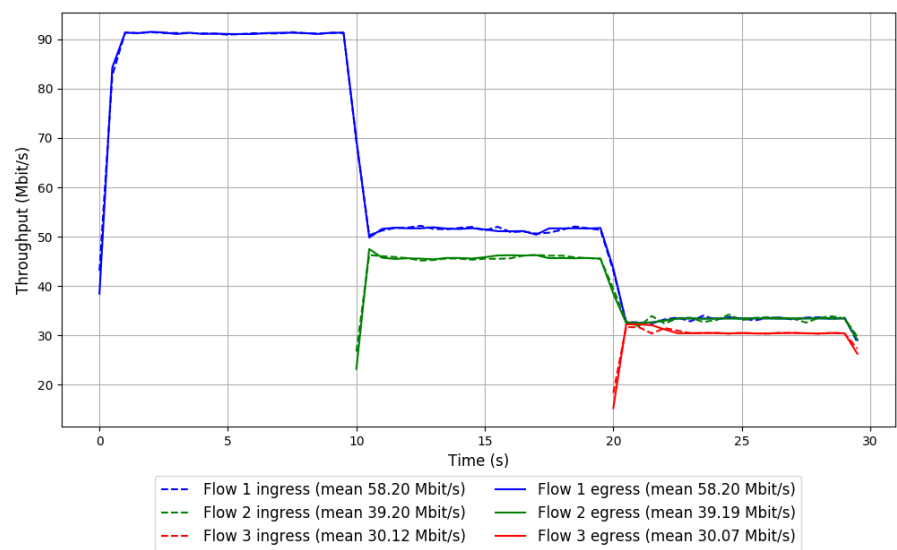


Run 5: Statistics of FillP

Start at: 2018-04-03 18:41:42
End at: 2018-04-03 18:42:12
Local clock offset: 5.331 ms
Remote clock offset: -3.245 ms

Below is generated by plot.py at 2018-04-04 00:40:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 45.418 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 44.838 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: 46.242 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 42.929 ms
Loss rate: 0.34%

Run 5: Report of FillP — Data Link

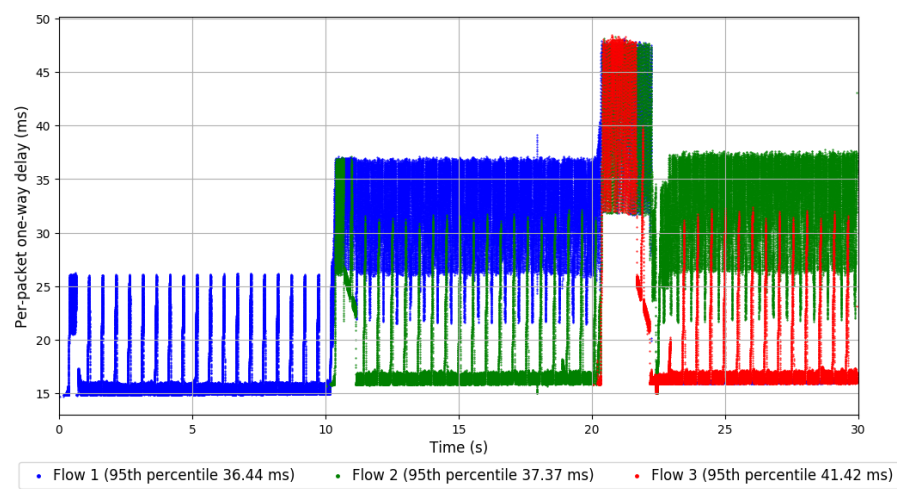
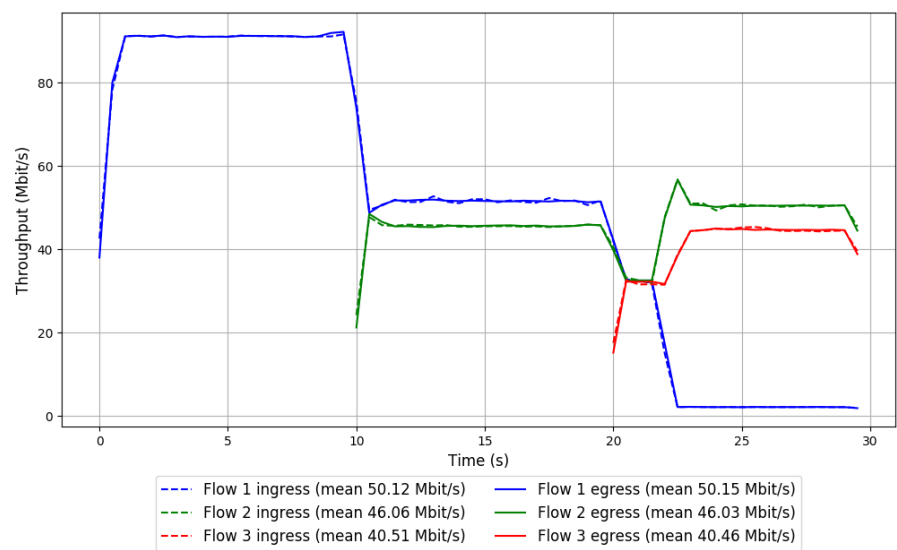


Run 6: Statistics of FillP

Start at: 2018-04-03 19:02:38
End at: 2018-04-03 19:03:08
Local clock offset: -0.041 ms
Remote clock offset: -5.359 ms

Below is generated by plot.py at 2018-04-04 00:40:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 37.001 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 36.443 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.03 Mbit/s
95th percentile per-packet one-way delay: 37.370 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 41.421 ms
Loss rate: 0.28%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-03 19:23:35

End at: 2018-04-03 19:24:05

Local clock offset: 3.353 ms

Remote clock offset: 4.369 ms

Below is generated by plot.py at 2018-04-04 00:41:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 34.665 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 34.222 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.39 Mbit/s

95th percentile per-packet one-way delay: 35.067 ms

Loss rate: 0.23%

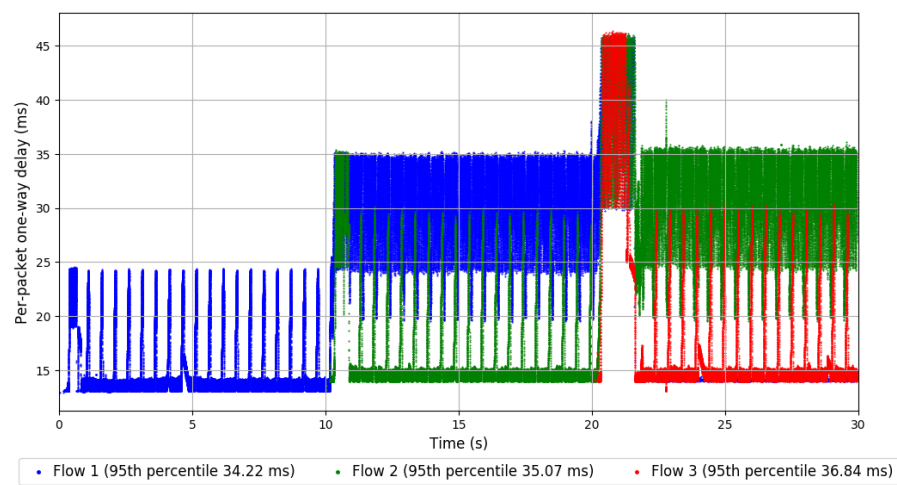
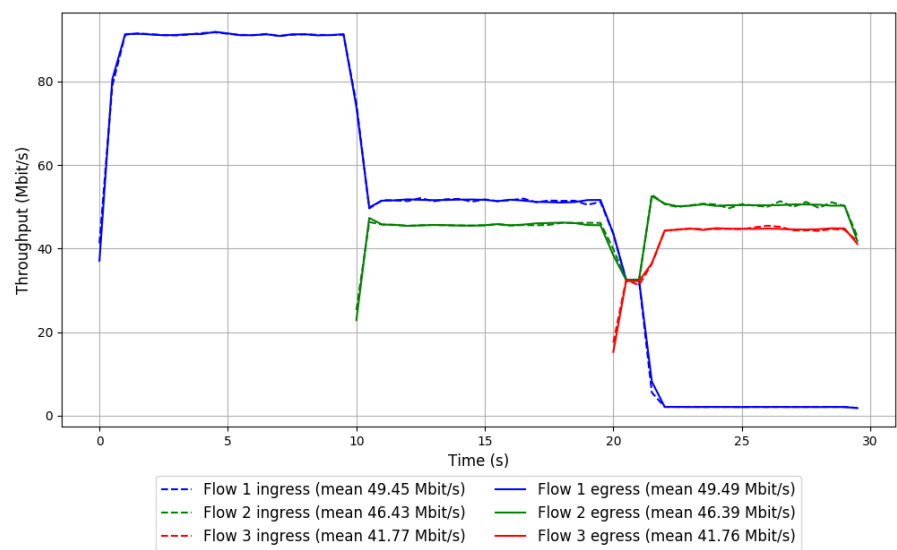
-- Flow 3:

Average throughput: 41.76 Mbit/s

95th percentile per-packet one-way delay: 36.845 ms

Loss rate: 0.25%

Run 7: Report of FillP — Data Link

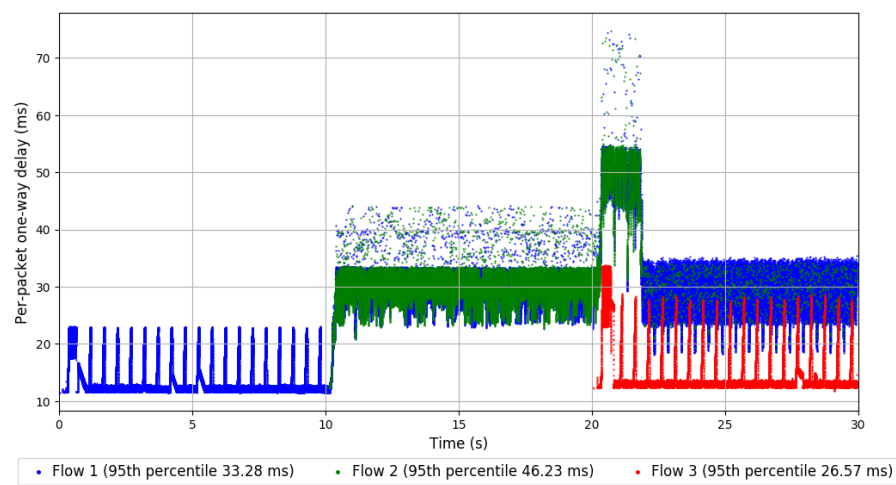
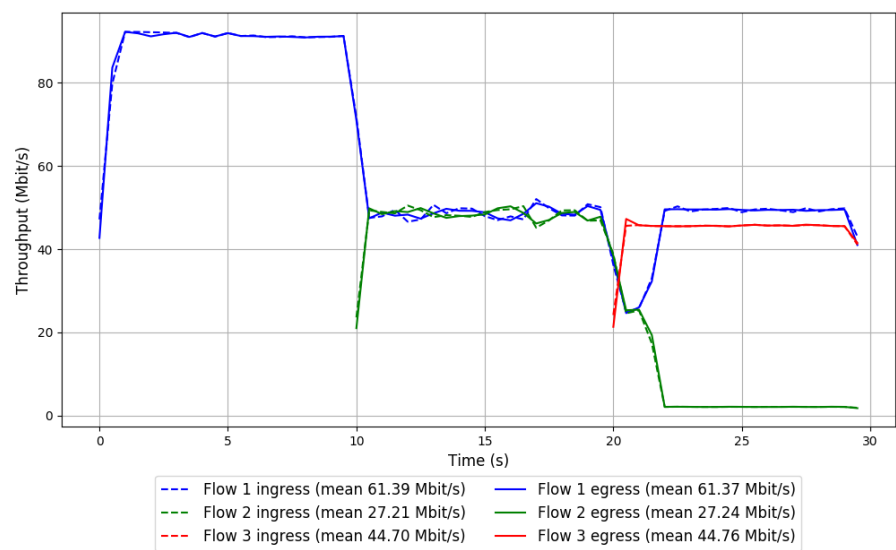


Run 8: Statistics of FillP

Start at: 2018-04-03 19:44:32
End at: 2018-04-03 19:45:02
Local clock offset: 0.176 ms
Remote clock offset: -0.506 ms

Below is generated by plot.py at 2018-04-04 00:41:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 33.313 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 33.280 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 27.24 Mbit/s
95th percentile per-packet one-way delay: 46.232 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 26.572 ms
Loss rate: 0.09%

Run 8: Report of FillP — Data Link

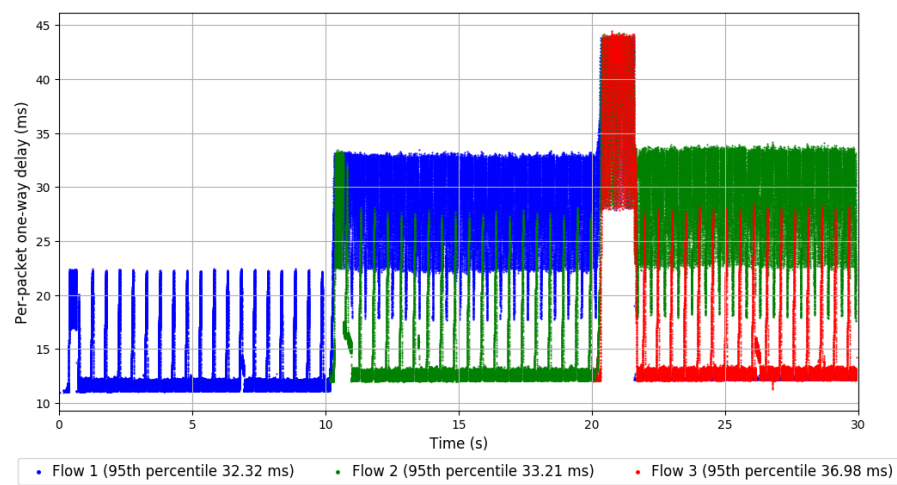
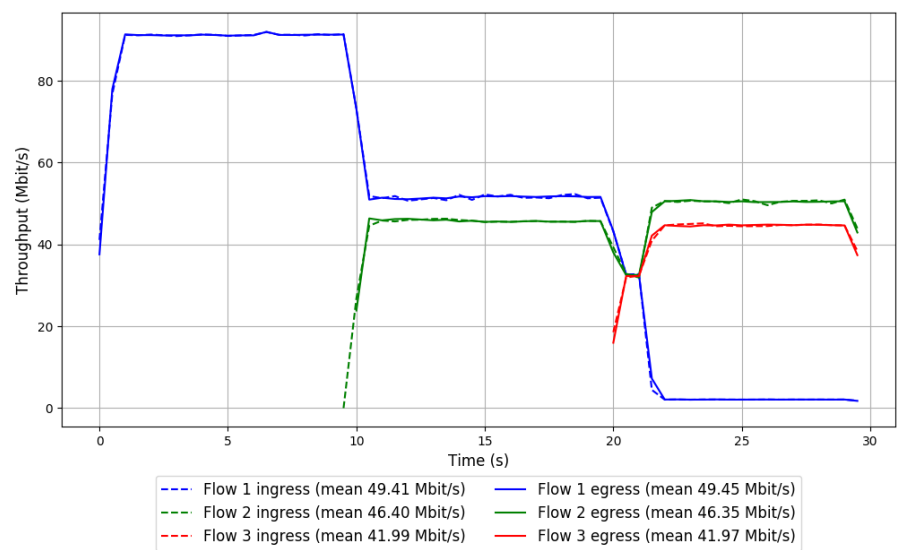


Run 9: Statistics of FillP

Start at: 2018-04-03 20:05:30
End at: 2018-04-03 20:06:00
Local clock offset: -0.624 ms
Remote clock offset: -1.728 ms

Below is generated by plot.py at 2018-04-04 00:41:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 32.854 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 32.323 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 33.214 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 41.97 Mbit/s
95th percentile per-packet one-way delay: 36.978 ms
Loss rate: 0.27%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-03 20:26:25

End at: 2018-04-03 20:26:55

Local clock offset: -1.78 ms

Remote clock offset: 1.435 ms

Below is generated by plot.py at 2018-04-04 00:41:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.90 Mbit/s

95th percentile per-packet one-way delay: 28.724 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 24.869 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.35 Mbit/s

95th percentile per-packet one-way delay: 29.661 ms

Loss rate: 0.00%

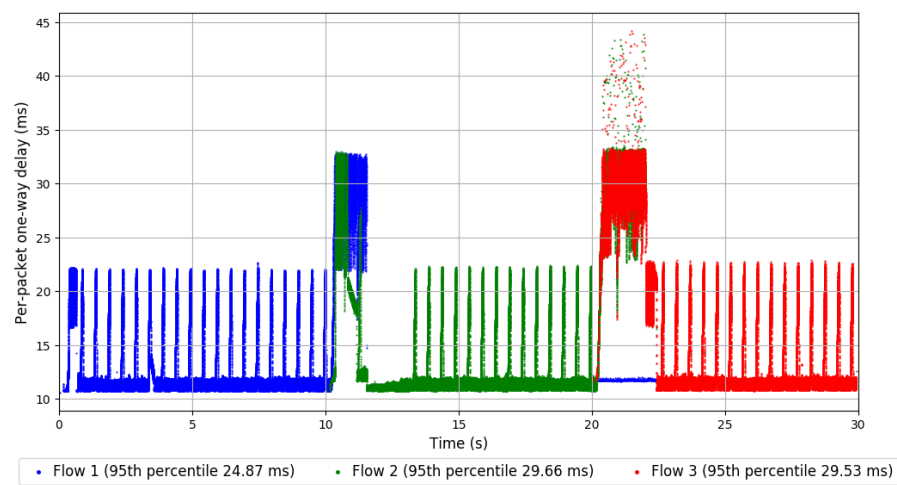
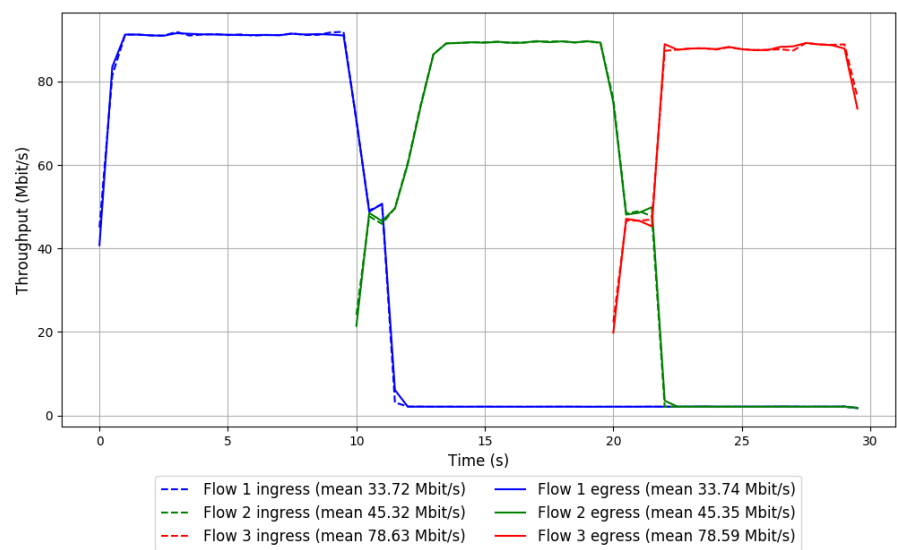
-- Flow 3:

Average throughput: 78.59 Mbit/s

95th percentile per-packet one-way delay: 29.532 ms

Loss rate: 0.28%

Run 10: Report of FillP — Data Link

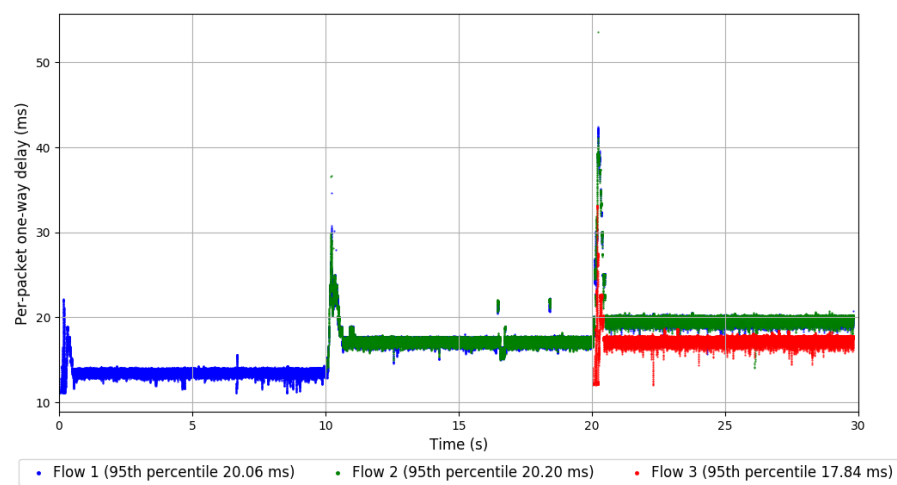
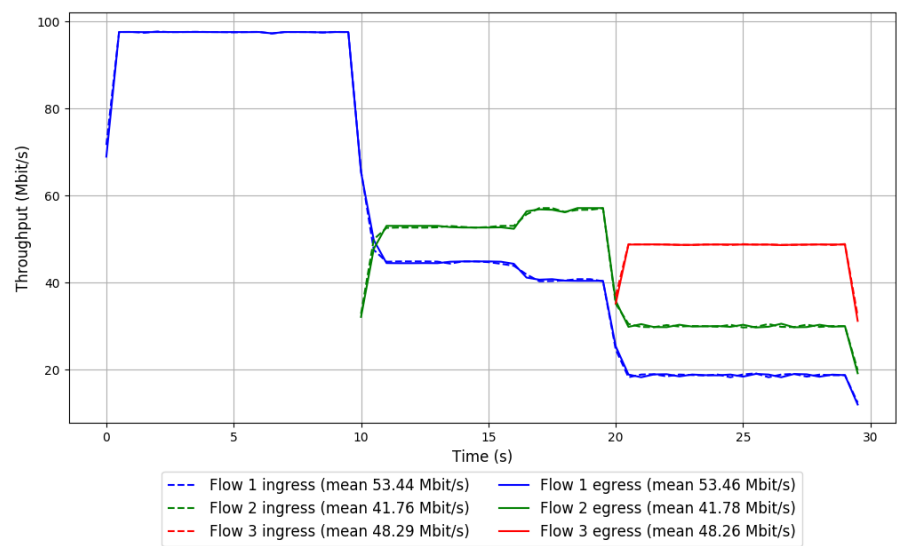


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-03 17:03:48
End at: 2018-04-03 17:04:18
Local clock offset: 1.362 ms
Remote clock offset: 6.377 ms

# Below is generated by plot.py at 2018-04-04 00:41:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 20.110 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 53.46 Mbit/s
95th percentile per-packet one-way delay: 20.059 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 41.78 Mbit/s
95th percentile per-packet one-way delay: 20.196 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 17.843 ms
Loss rate: 0.30%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-03 17:25:03

End at: 2018-04-03 17:25:33

Local clock offset: 1.543 ms

Remote clock offset: 3.734 ms

Below is generated by plot.py at 2018-04-04 00:42:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 19.397 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 57.79 Mbit/s

95th percentile per-packet one-way delay: 19.394 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 14.676 ms

Loss rate: 0.13%

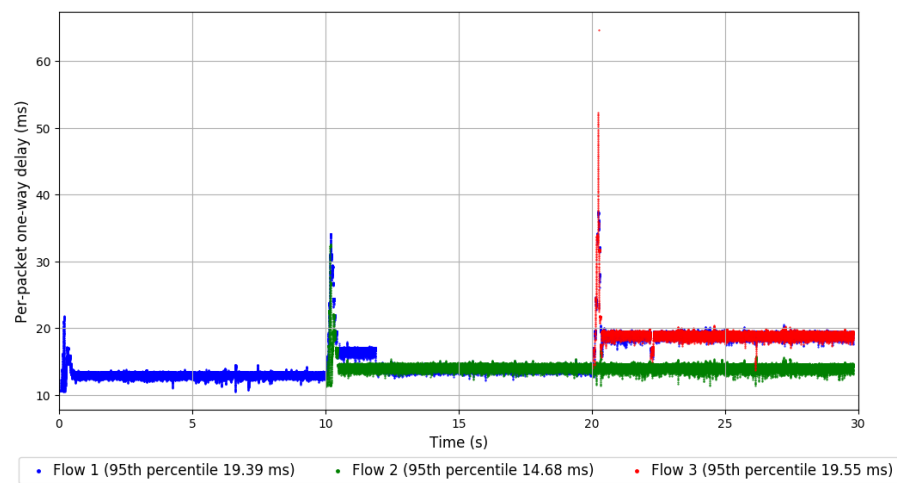
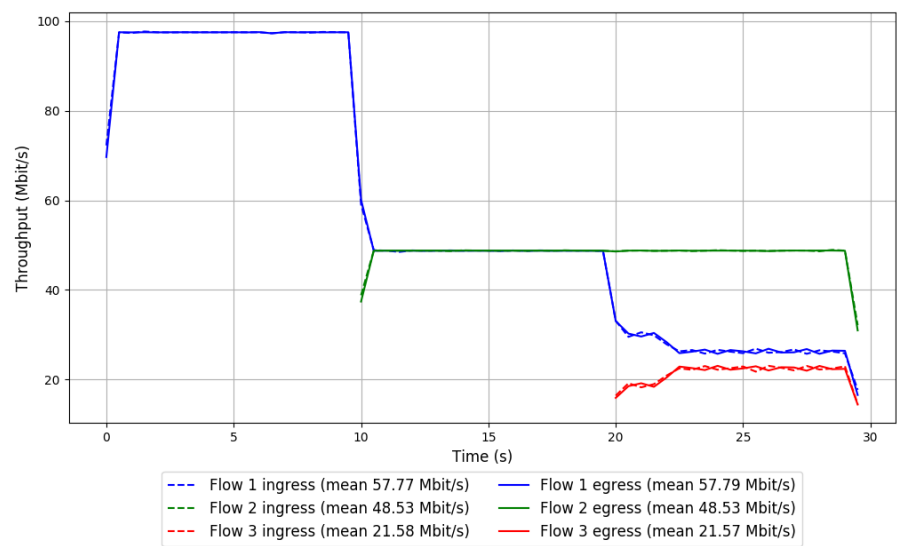
-- Flow 3:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 19.555 ms

Loss rate: 0.34%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-03 17:46:32

End at: 2018-04-03 17:47:02

Local clock offset: 4.264 ms

Remote clock offset: 1.821 ms

Below is generated by plot.py at 2018-04-04 00:42:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 22.521 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 18.364 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 23.298 ms

Loss rate: 0.13%

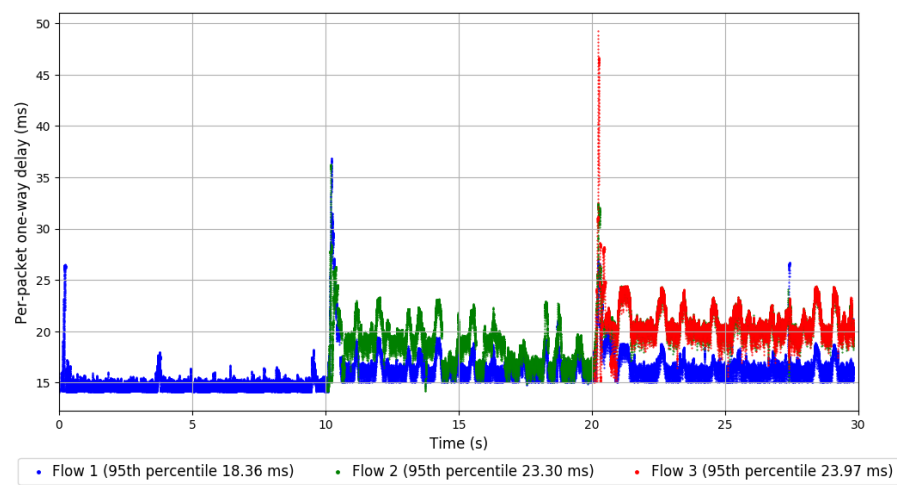
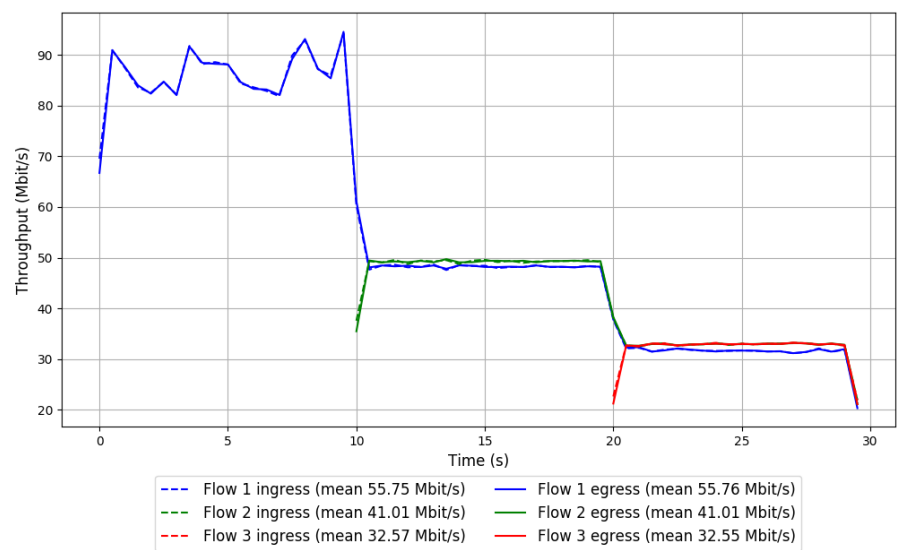
-- Flow 3:

Average throughput: 32.55 Mbit/s

95th percentile per-packet one-way delay: 23.972 ms

Loss rate: 0.34%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-03 18:19:53

End at: 2018-04-03 18:20:23

Local clock offset: 5.067 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-04-04 00:42:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 21.269 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 57.20 Mbit/s

95th percentile per-packet one-way delay: 21.244 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 18.864 ms

Loss rate: 0.14%

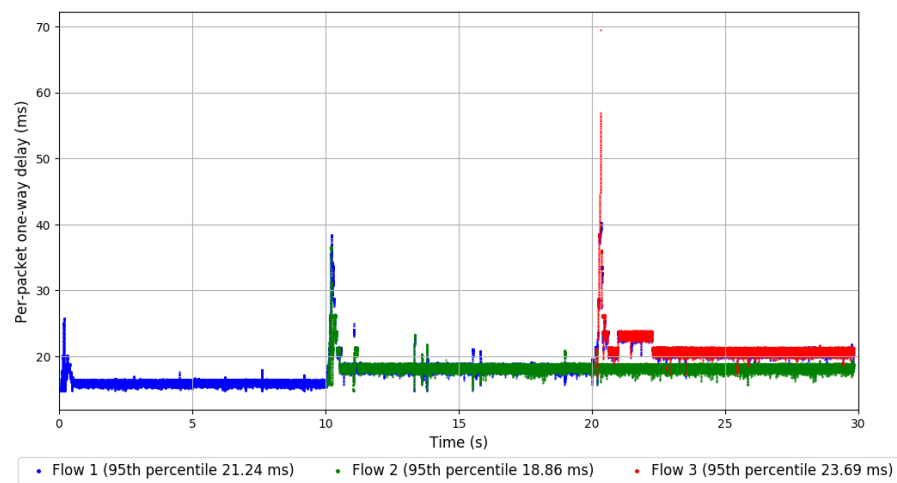
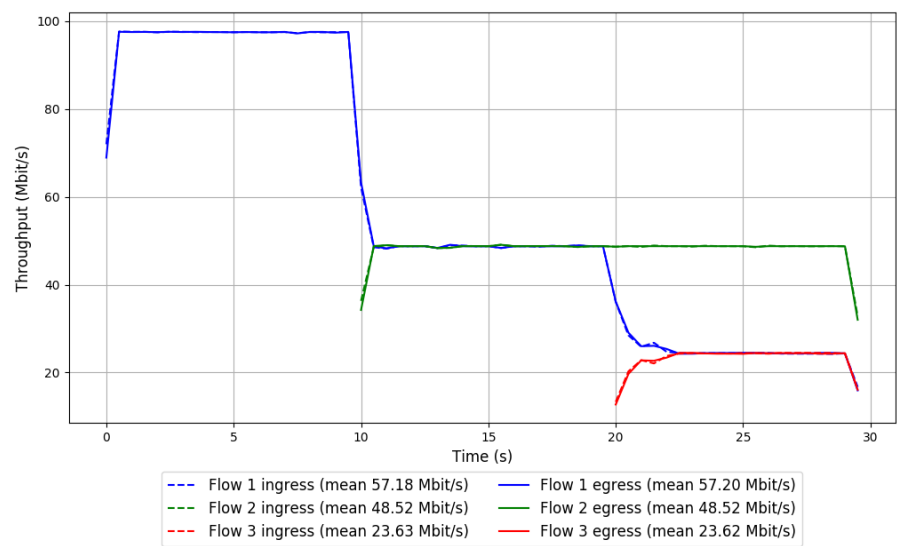
-- Flow 3:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 23.692 ms

Loss rate: 0.31%

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

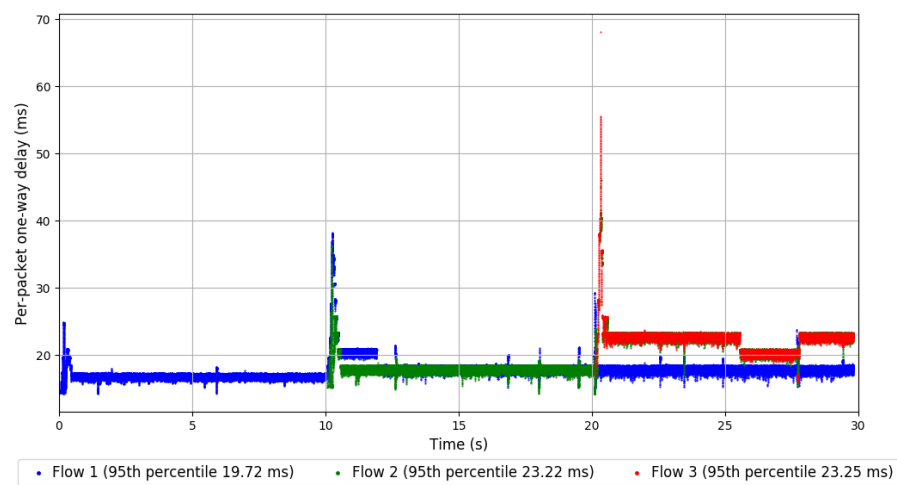
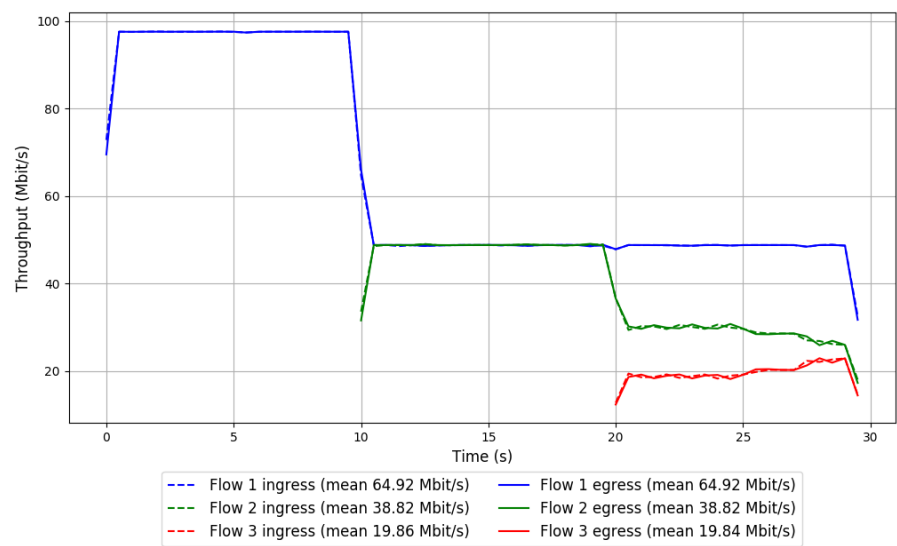


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-03 18:43:57
End at: 2018-04-03 18:44:27
Local clock offset: 4.919 ms
Remote clock offset: -3.115 ms

Below is generated by plot.py at 2018-04-04 00:42:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 23.146 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 64.92 Mbit/s
95th percentile per-packet one-way delay: 19.723 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 23.223 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 19.84 Mbit/s
95th percentile per-packet one-way delay: 23.254 ms
Loss rate: 0.37%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-03 19:04:53

End at: 2018-04-03 19:05:23

Local clock offset: 4.725 ms

Remote clock offset: 1.241 ms

Below is generated by plot.py at 2018-04-04 00:42:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.96 Mbit/s

95th percentile per-packet one-way delay: 20.644 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.51 Mbit/s

95th percentile per-packet one-way delay: 20.590 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 34.13 Mbit/s

95th percentile per-packet one-way delay: 20.690 ms

Loss rate: 0.10%

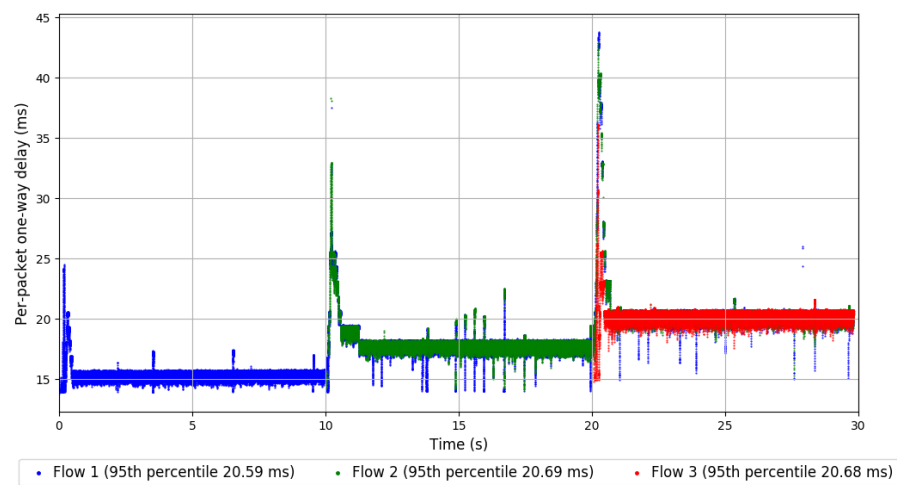
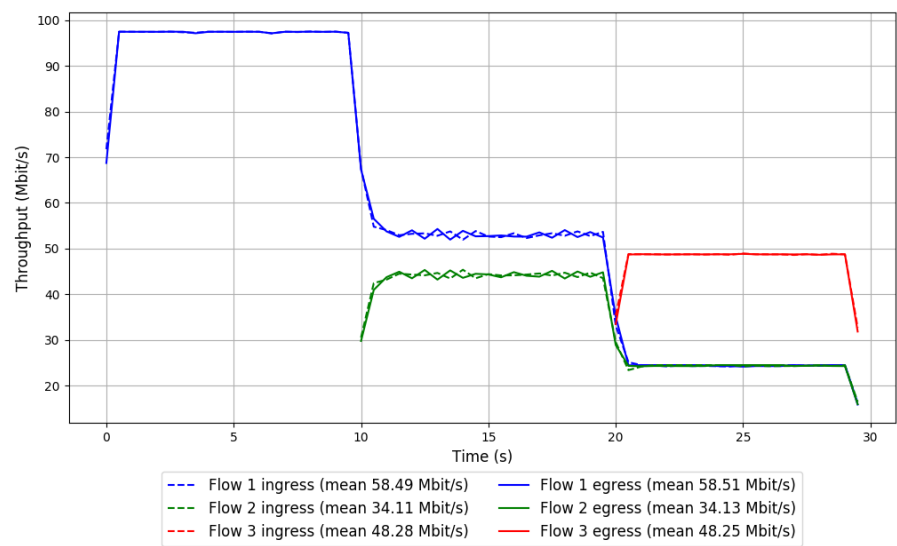
-- Flow 3:

Average throughput: 48.25 Mbit/s

95th percentile per-packet one-way delay: 20.682 ms

Loss rate: 0.30%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-03 19:25:50

End at: 2018-04-03 19:26:20

Local clock offset: 4.615 ms

Remote clock offset: 4.878 ms

Below is generated by plot.py at 2018-04-04 00:43:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 23.039 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 56.46 Mbit/s

95th percentile per-packet one-way delay: 22.999 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 37.16 Mbit/s

95th percentile per-packet one-way delay: 23.109 ms

Loss rate: 0.11%

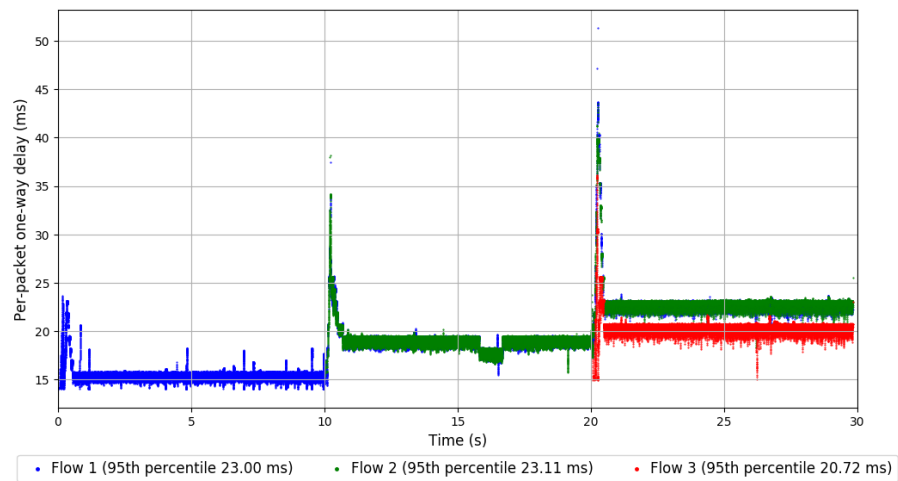
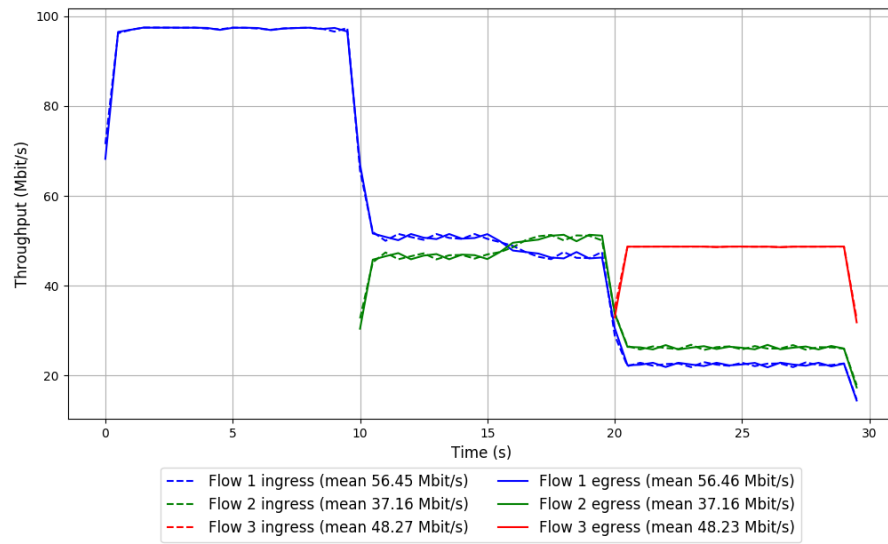
-- Flow 3:

Average throughput: 48.23 Mbit/s

95th percentile per-packet one-way delay: 20.724 ms

Loss rate: 0.29%

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

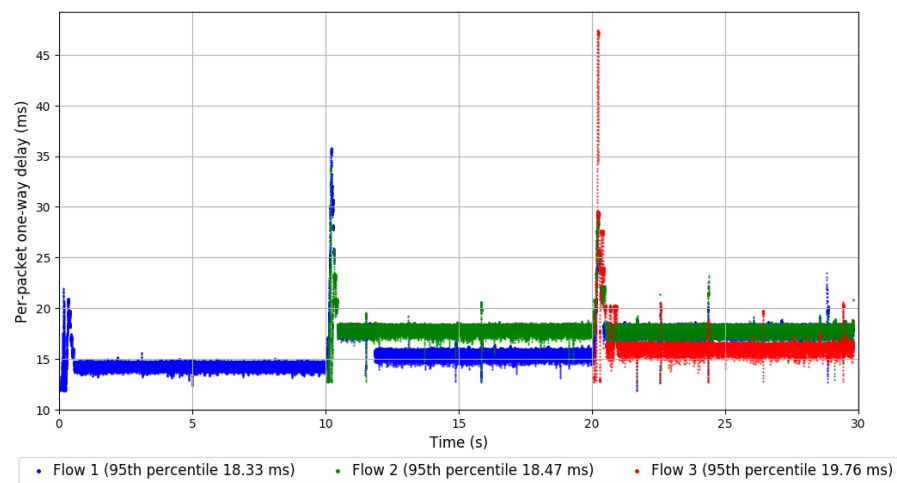
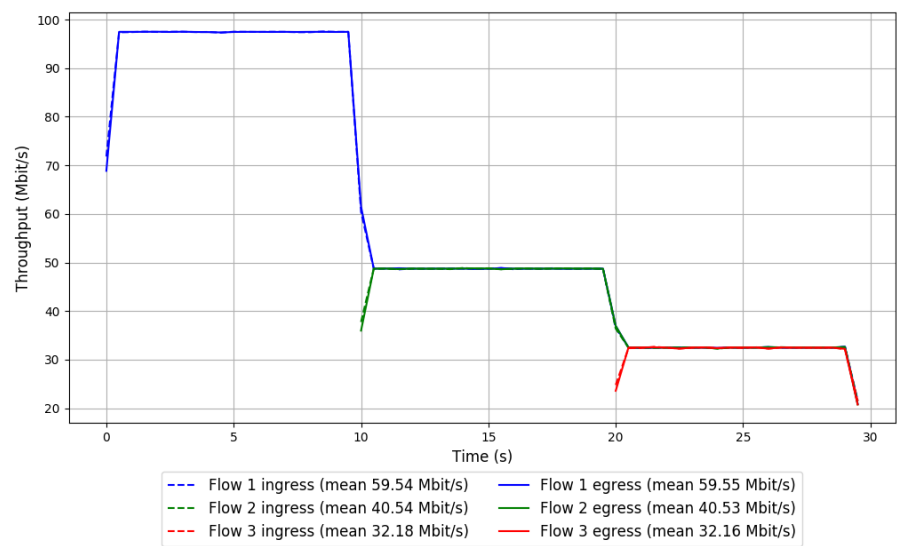


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-03 19:46:47
End at: 2018-04-03 19:47:17
Local clock offset: -0.184 ms
Remote clock offset: -1.348 ms

Below is generated by plot.py at 2018-04-04 00:43:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 18.393 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.55 Mbit/s
95th percentile per-packet one-way delay: 18.327 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.53 Mbit/s
95th percentile per-packet one-way delay: 18.471 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 19.757 ms
Loss rate: 0.28%

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

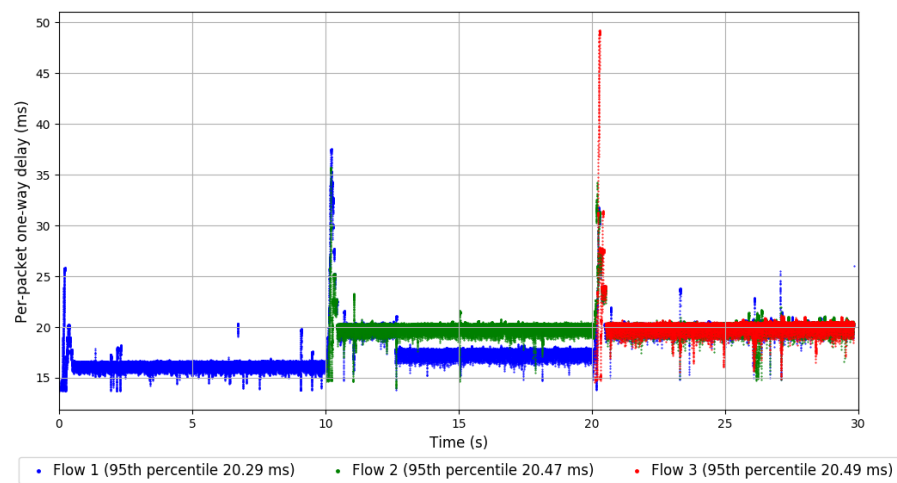
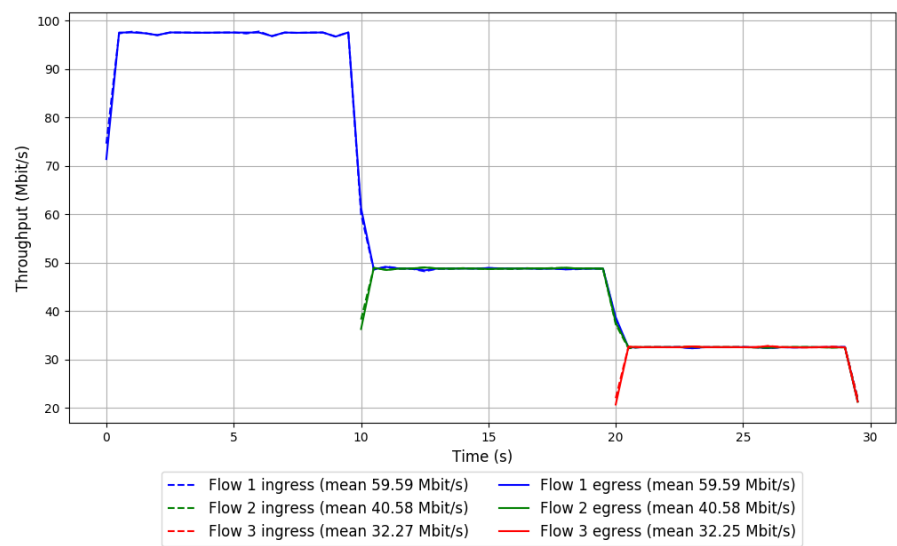


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-03 20:07:45
End at: 2018-04-03 20:08:15
Local clock offset: 2.321 ms
Remote clock offset: -0.646 ms

Below is generated by plot.py at 2018-04-04 00:43:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 20.366 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.59 Mbit/s
95th percentile per-packet one-way delay: 20.286 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.58 Mbit/s
95th percentile per-packet one-way delay: 20.469 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 20.493 ms
Loss rate: 0.31%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-03 20:28:40

End at: 2018-04-03 20:29:10

Local clock offset: -1.715 ms

Remote clock offset: 1.395 ms

Below is generated by plot.py at 2018-04-04 00:43:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 20.123 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 64.63 Mbit/s

95th percentile per-packet one-way delay: 15.310 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 35.99 Mbit/s

95th percentile per-packet one-way delay: 20.203 ms

Loss rate: 0.10%

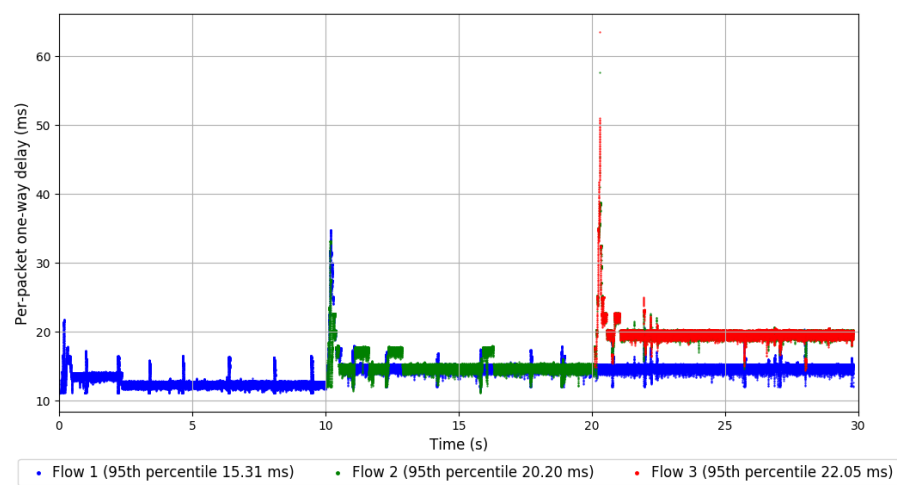
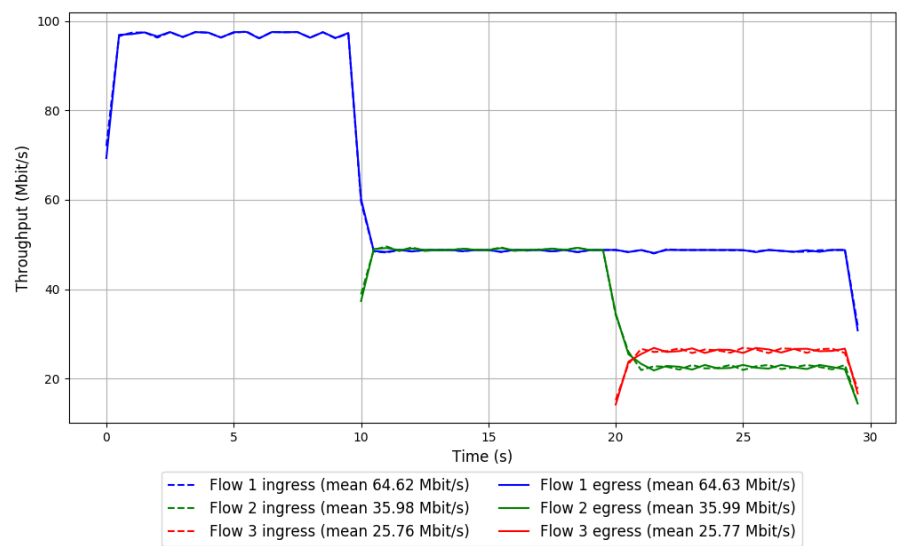
-- Flow 3:

Average throughput: 25.77 Mbit/s

95th percentile per-packet one-way delay: 22.047 ms

Loss rate: 0.31%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-03 17:19:10

End at: 2018-04-03 17:19:40

Local clock offset: 4.971 ms

Remote clock offset: 3.78 ms

Below is generated by plot.py at 2018-04-04 00:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 47.444 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 53.67 Mbit/s

95th percentile per-packet one-way delay: 47.184 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 41.82 Mbit/s

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

Loss rate: 0.23%

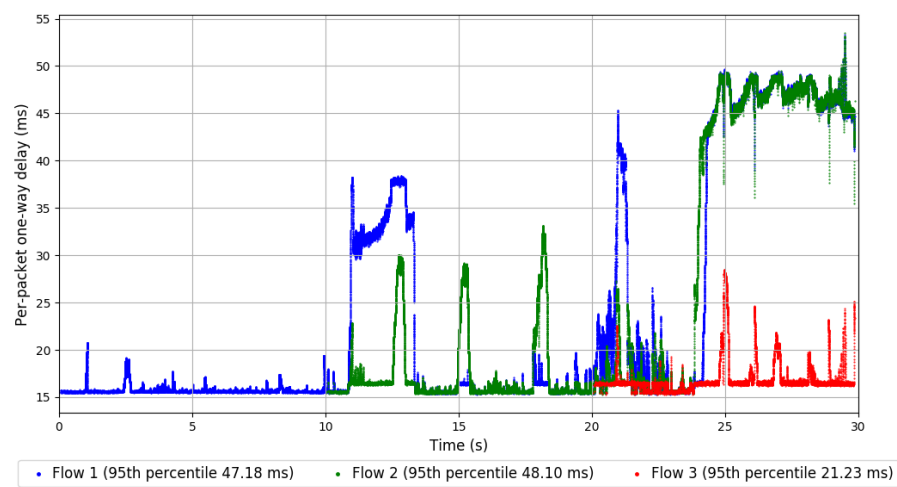
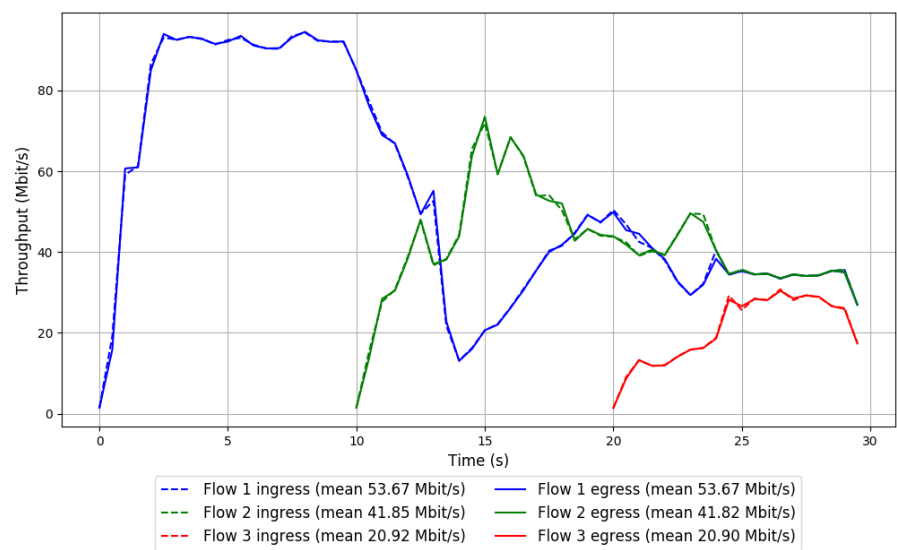
-- Flow 3:

Average throughput: 20.90 Mbit/s

95th percentile per-packet one-way delay: 21.229 ms

Loss rate: 0.32%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-03 17:40:36

End at: 2018-04-03 17:41:06

Local clock offset: 1.47 ms

Remote clock offset: 0.715 ms

Below is generated by plot.py at 2018-04-04 00:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.75 Mbit/s

95th percentile per-packet one-way delay: 13.578 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 28.50 Mbit/s

95th percentile per-packet one-way delay: 13.310 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 25.56 Mbit/s

95th percentile per-packet one-way delay: 13.927 ms

Loss rate: 0.23%

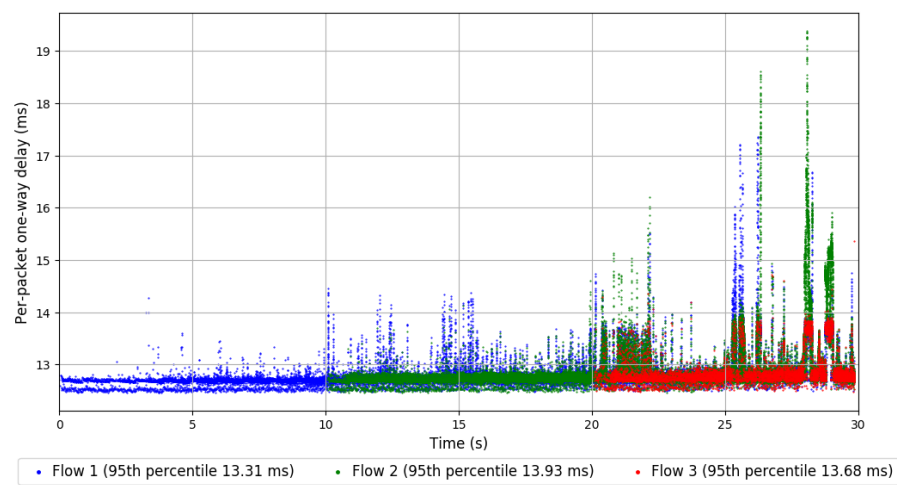
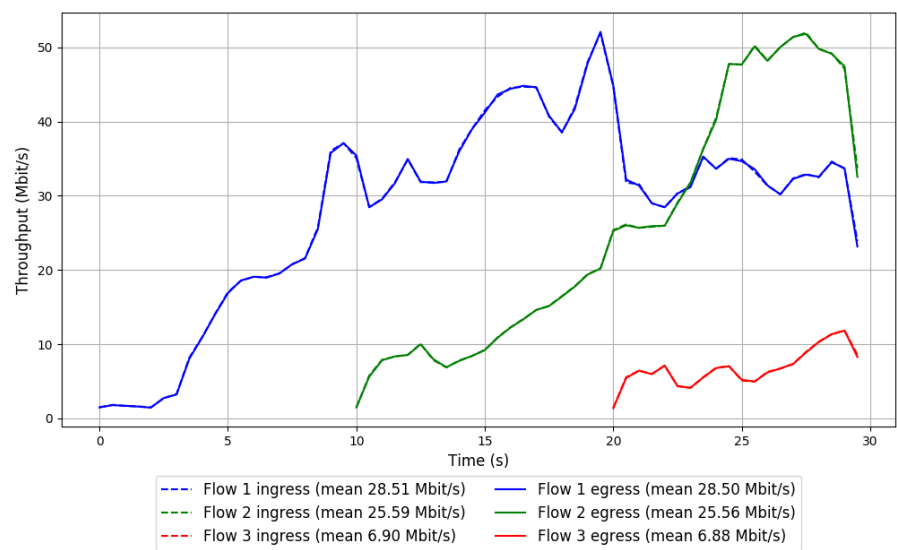
-- Flow 3:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 13.679 ms

Loss rate: 0.46%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-03 18:01:52

End at: 2018-04-03 18:02:22

Local clock offset: 2.192 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-04-04 00:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 34.833 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 37.42 Mbit/s

95th percentile per-packet one-way delay: 34.630 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 35.151 ms

Loss rate: 0.33%

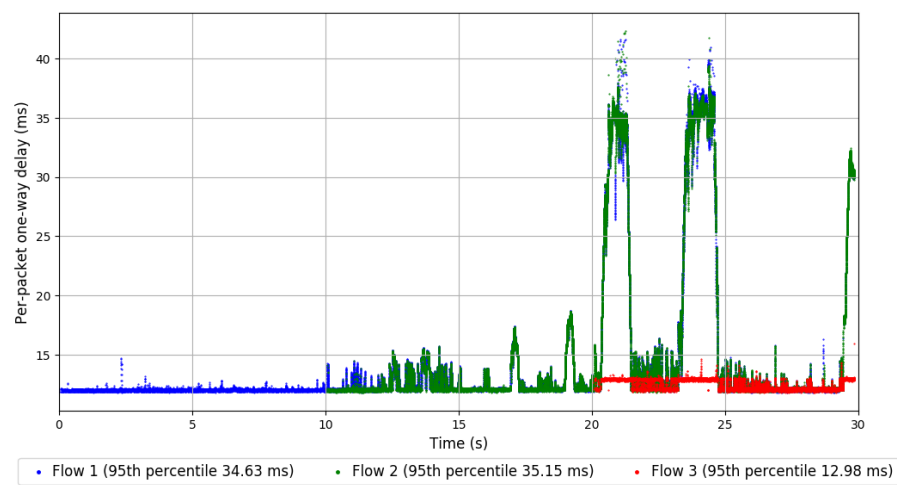
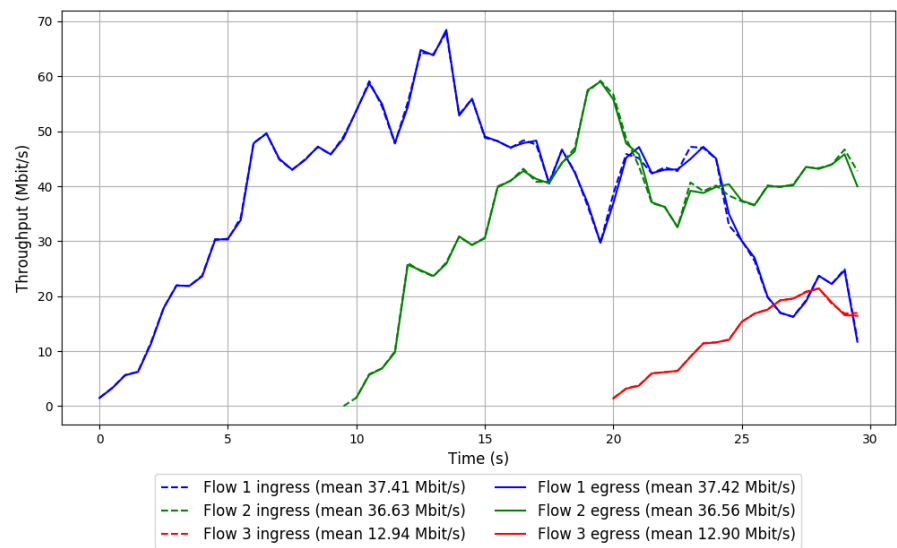
-- Flow 3:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 12.983 ms

Loss rate: 0.45%

Run 3: Report of Vivace-latency — Data Link

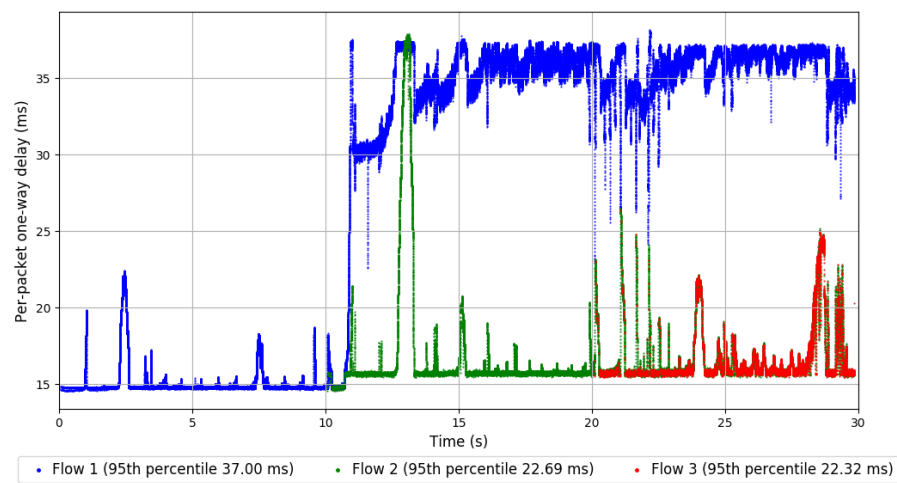
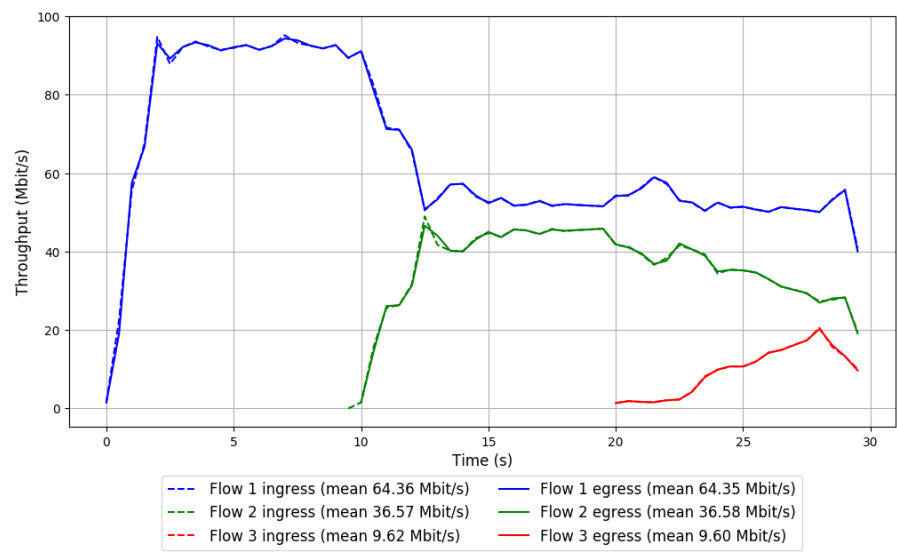


Run 4: Statistics of Vivace-latency

Start at: 2018-04-03 18:38:10
End at: 2018-04-03 18:38:40
Local clock offset: 4.913 ms
Remote clock offset: -2.915 ms

Below is generated by plot.py at 2018-04-04 00:44:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.81 Mbit/s
95th percentile per-packet one-way delay: 36.928 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 37.003 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 36.58 Mbit/s
95th percentile per-packet one-way delay: 22.690 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 22.321 ms
Loss rate: 0.37%

Run 4: Report of Vivace-latency — Data Link

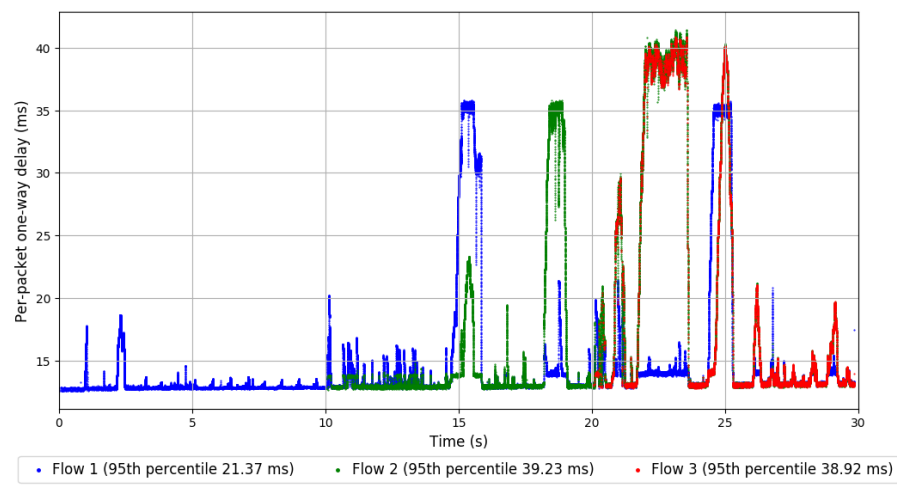
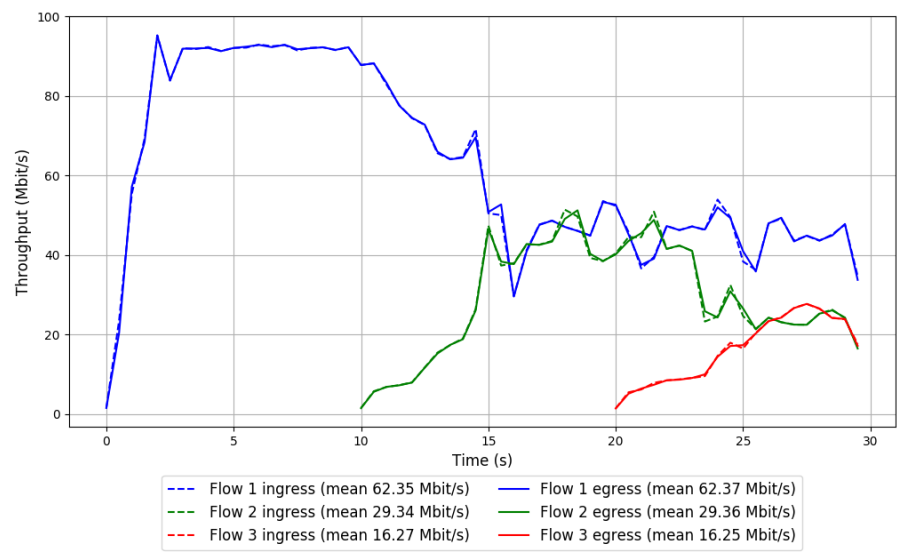


Run 5: Statistics of Vivace-latency

Start at: 2018-04-03 18:59:06
End at: 2018-04-03 18:59:36
Local clock offset: 2.941 ms
Remote clock offset: -2.199 ms

Below is generated by plot.py at 2018-04-04 00:44:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.22 Mbit/s
95th percentile per-packet one-way delay: 35.165 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 62.37 Mbit/s
95th percentile per-packet one-way delay: 21.373 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 29.36 Mbit/s
95th percentile per-packet one-way delay: 39.234 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 16.25 Mbit/s
95th percentile per-packet one-way delay: 38.919 ms
Loss rate: 0.35%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-03 19:20:04

End at: 2018-04-03 19:20:34

Local clock offset: 1.65 ms

Remote clock offset: 4.057 ms

Below is generated by plot.py at 2018-04-04 00:44:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 42.685 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 42.333 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 25.07 Mbit/s

95th percentile per-packet one-way delay: 45.013 ms

Loss rate: 0.16%

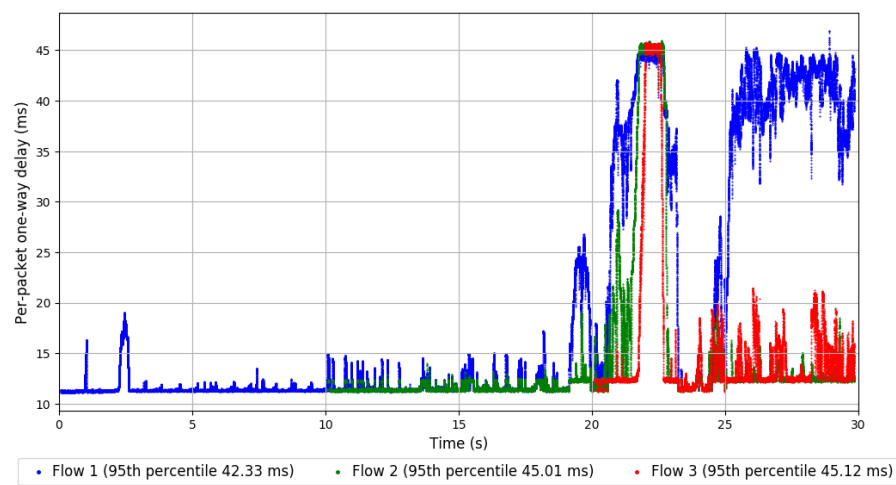
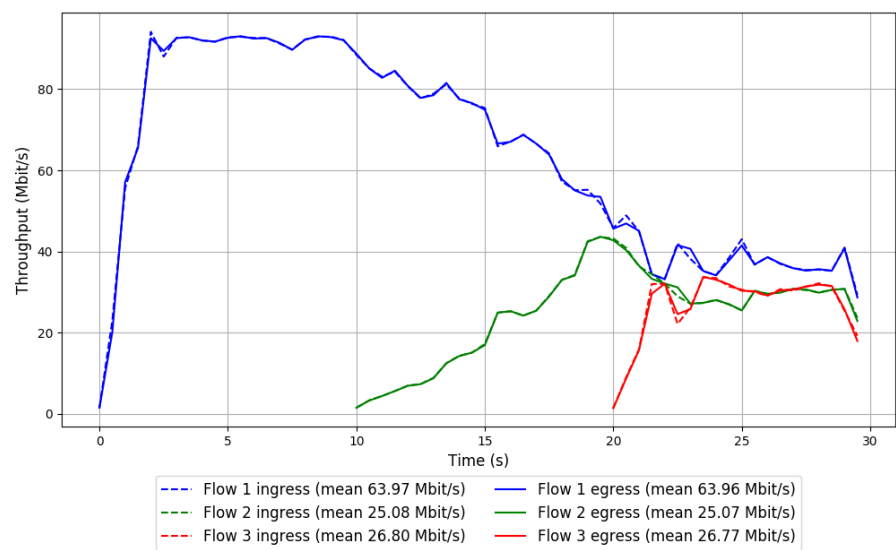
-- Flow 3:

Average throughput: 26.77 Mbit/s

95th percentile per-packet one-way delay: 45.122 ms

Loss rate: 0.34%

Run 6: Report of Vivace-latency — Data Link

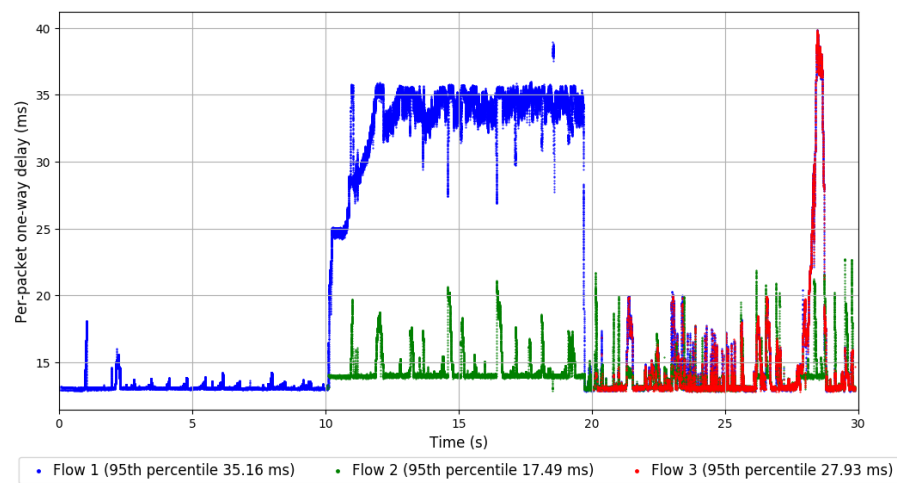
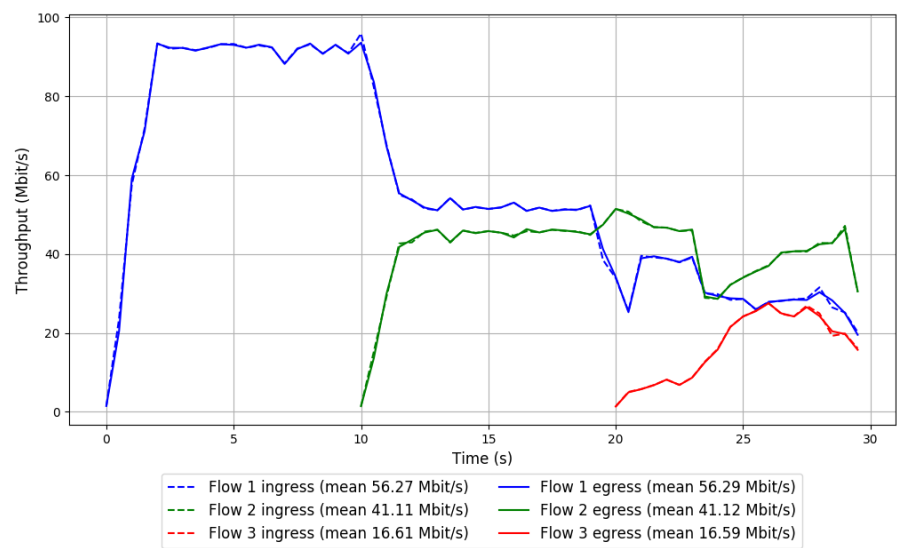


Run 7: Statistics of Vivace-latency

Start at: 2018-04-03 19:41:00
End at: 2018-04-03 19:41:30
Local clock offset: 1.589 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-04-04 00:44:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.06 Mbit/s
95th percentile per-packet one-way delay: 34.870 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 56.29 Mbit/s
95th percentile per-packet one-way delay: 35.155 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 17.487 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 16.59 Mbit/s
95th percentile per-packet one-way delay: 27.926 ms
Loss rate: 0.31%

Run 7: Report of Vivace-latency — Data Link

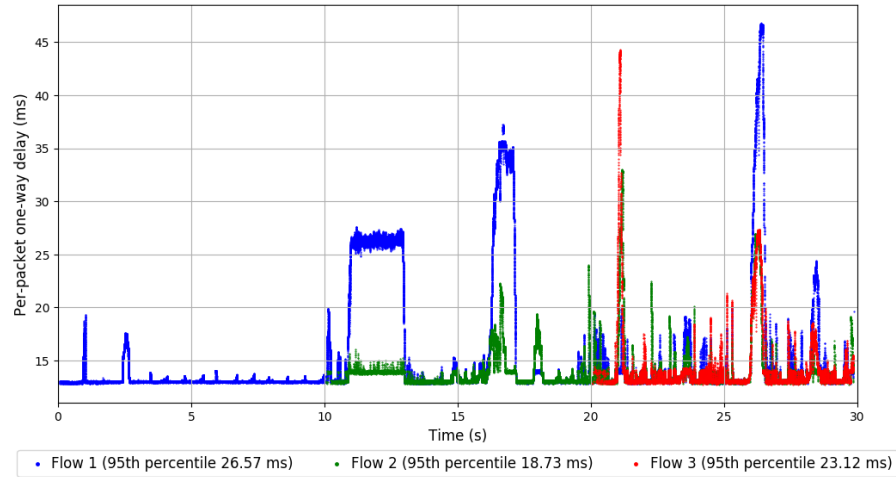
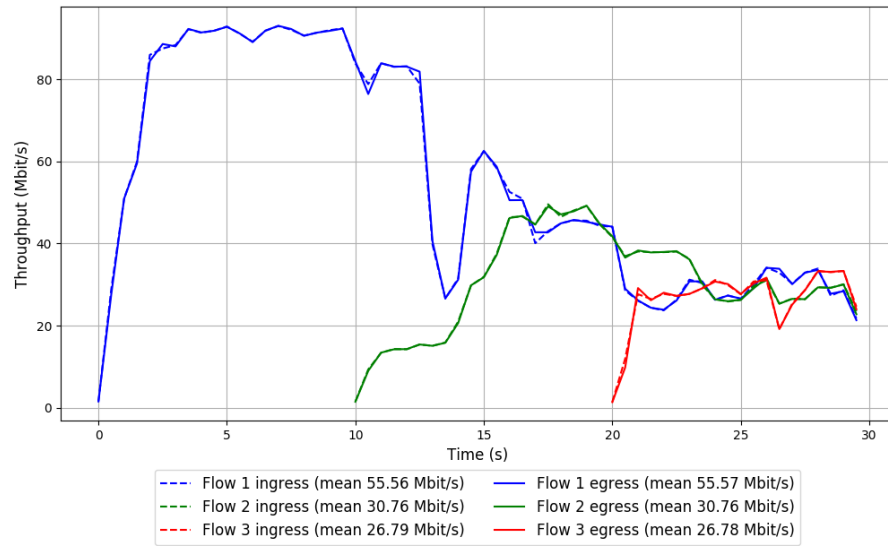


Run 8: Statistics of Vivace-latency

Start at: 2018-04-03 20:01:57
End at: 2018-04-03 20:02:27
Local clock offset: 0.928 ms
Remote clock offset: -2.235 ms

Below is generated by plot.py at 2018-04-04 00:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 26.411 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 26.568 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 18.731 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 26.78 Mbit/s
95th percentile per-packet one-way delay: 23.125 ms
Loss rate: 0.29%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-03 20:22:54

End at: 2018-04-03 20:23:24

Local clock offset: 3.002 ms

Remote clock offset: 0.914 ms

Below is generated by plot.py at 2018-04-04 00:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.42 Mbit/s

95th percentile per-packet one-way delay: 34.357 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 33.804 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 40.819 ms

Loss rate: 0.22%

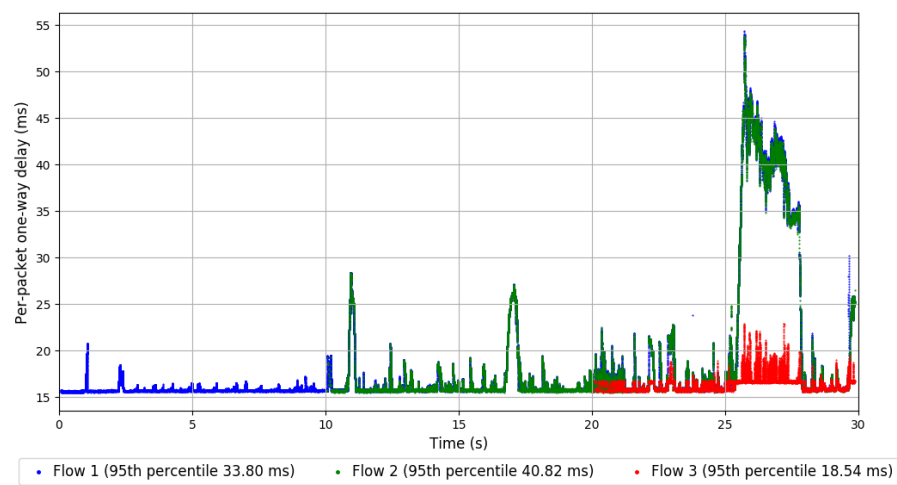
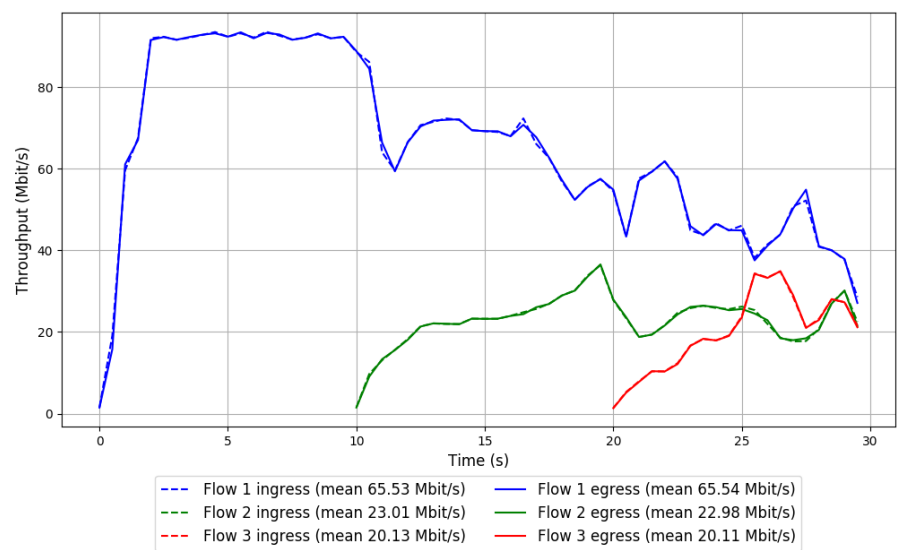
-- Flow 3:

Average throughput: 20.11 Mbit/s

95th percentile per-packet one-way delay: 18.540 ms

Loss rate: 0.34%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-03 20:43:50

End at: 2018-04-03 20:44:20

Local clock offset: 0.014 ms

Remote clock offset: 1.619 ms

Below is generated by plot.py at 2018-04-04 00:45:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 37.420 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 60.95 Mbit/s

95th percentile per-packet one-way delay: 17.837 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 38.912 ms

Loss rate: 0.26%

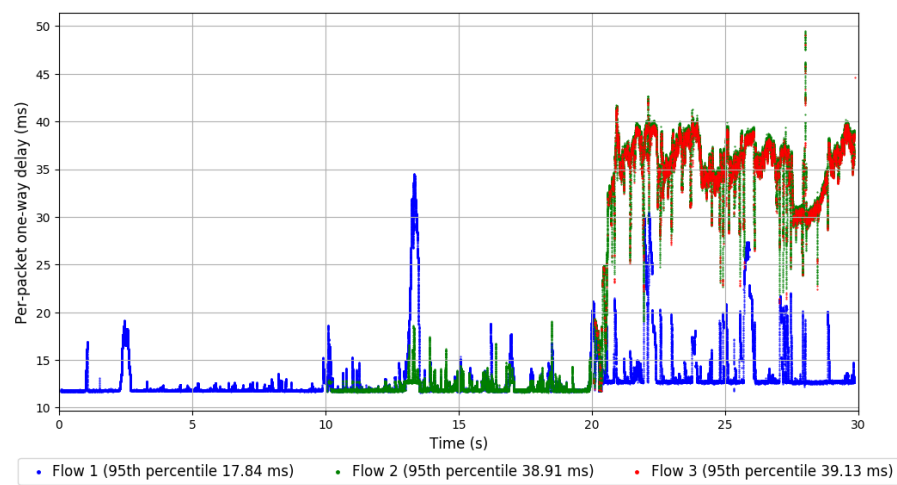
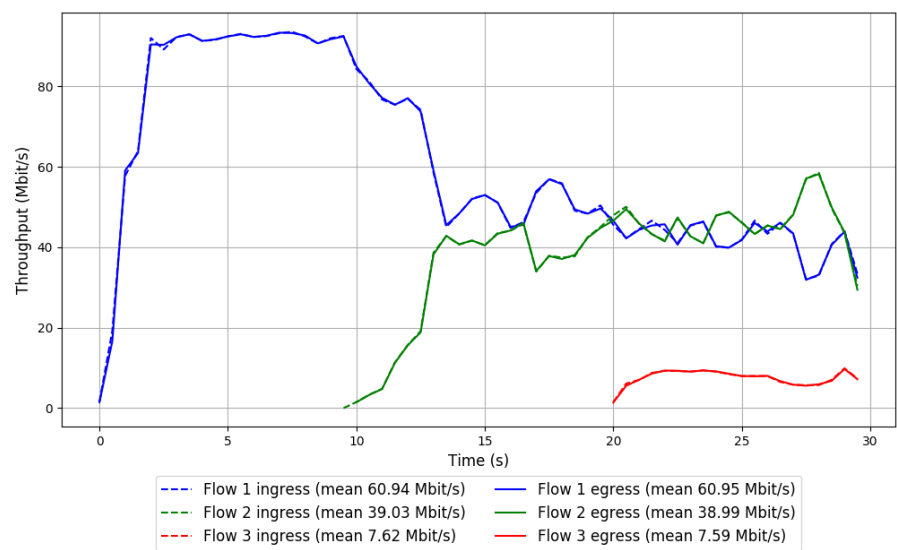
-- Flow 3:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 39.130 ms

Loss rate: 0.63%

Run 10: Report of Vivace-latency — Data Link

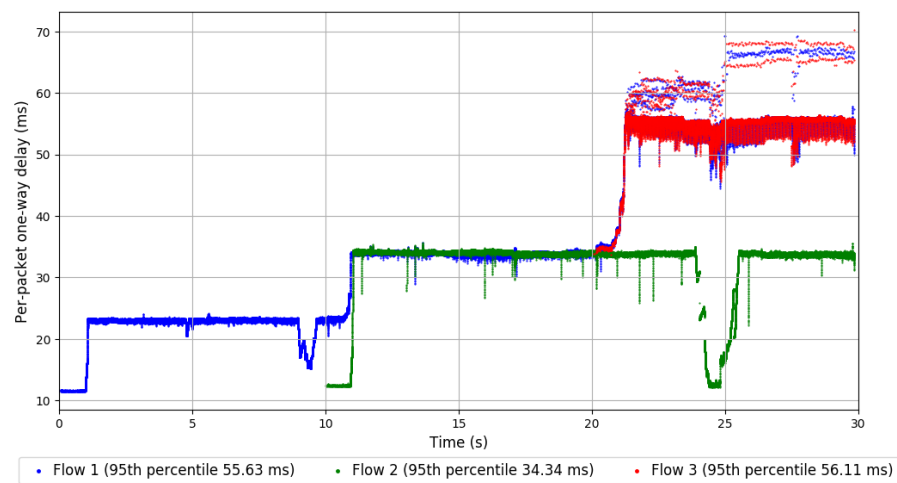
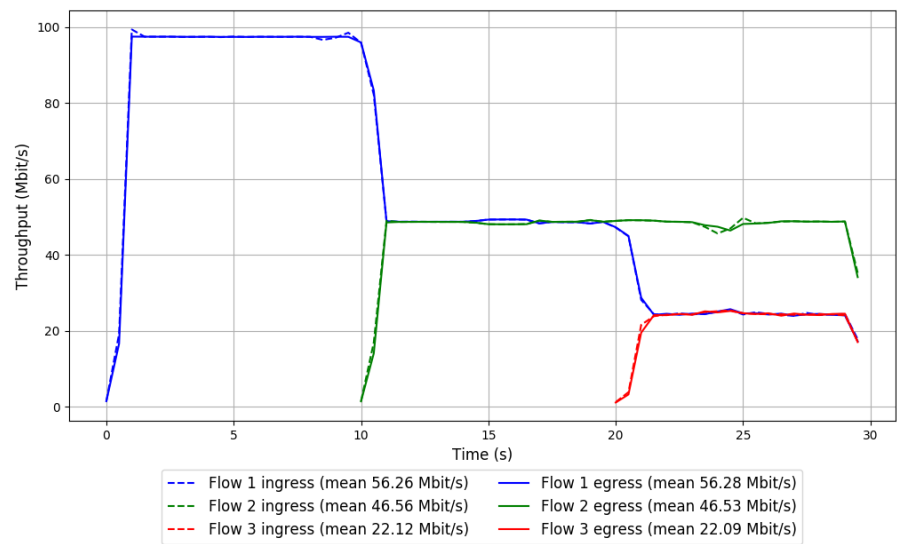


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-03 17:15:36
End at: 2018-04-03 17:16:06
Local clock offset: 1.283 ms
Remote clock offset: 6.047 ms

# Below is generated by plot.py at 2018-04-04 00:45:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 55.724 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.28 Mbit/s
95th percentile per-packet one-way delay: 55.632 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.53 Mbit/s
95th percentile per-packet one-way delay: 34.335 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 22.09 Mbit/s
95th percentile per-packet one-way delay: 56.106 ms
Loss rate: 0.65%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-03 17:37:00

End at: 2018-04-03 17:37:30

Local clock offset: 4.608 ms

Remote clock offset: 1.69 ms

Below is generated by plot.py at 2018-04-04 00:45:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 55.597 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 51.98 Mbit/s

95th percentile per-packet one-way delay: 55.091 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 38.71 Mbit/s

95th percentile per-packet one-way delay: 37.454 ms

Loss rate: 0.31%

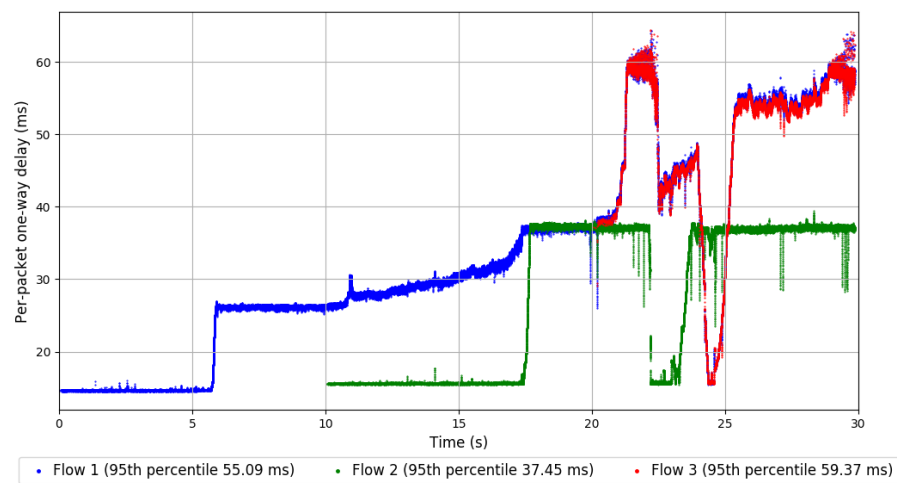
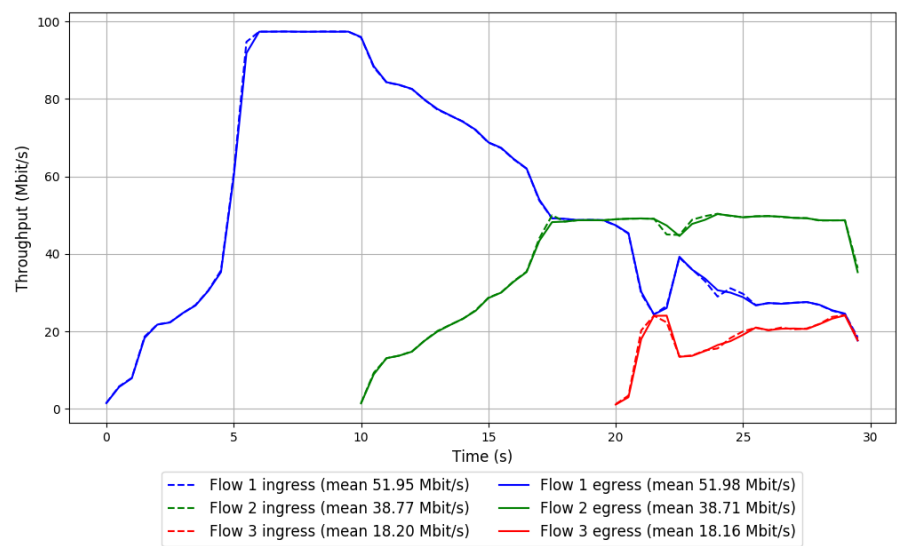
-- Flow 3:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 59.365 ms

Loss rate: 0.94%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-03 17:58:22

End at: 2018-04-03 17:58:52

Local clock offset: 3.161 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-04-04 00:45:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 57.302 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 57.219 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 57.515 ms

Loss rate: 0.24%

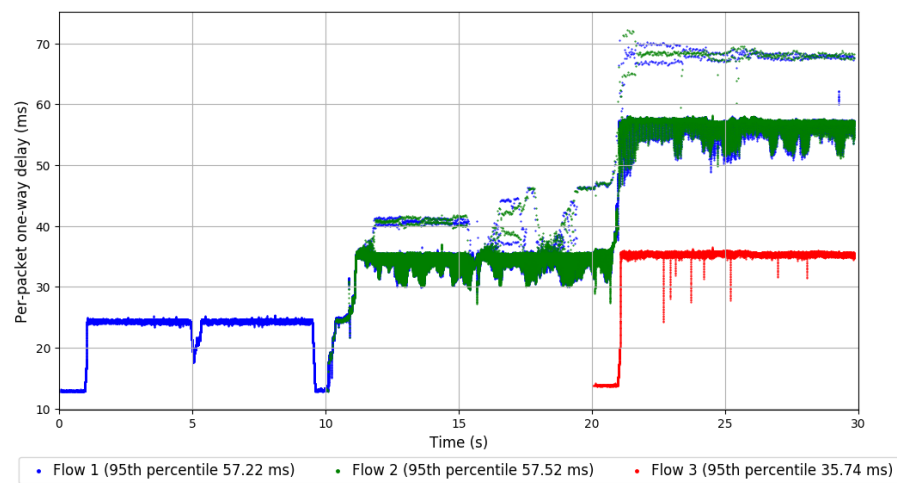
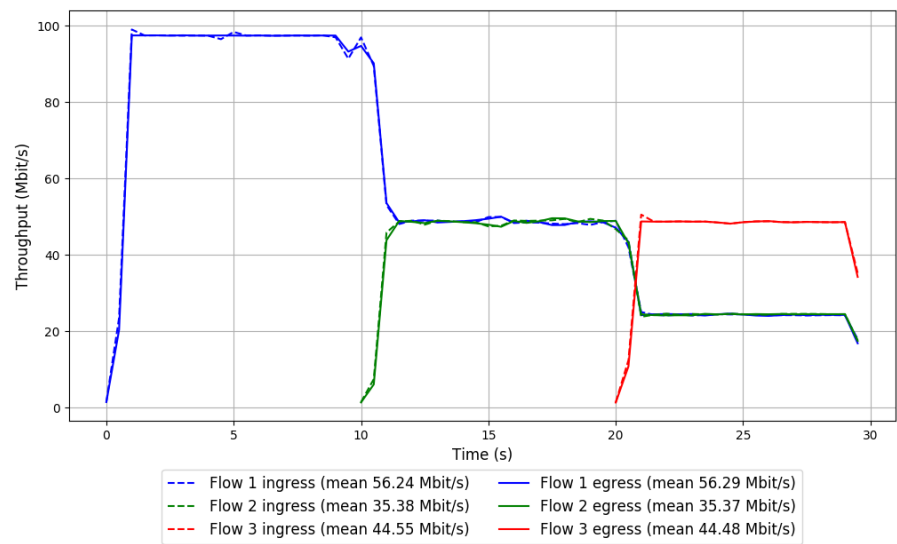
-- Flow 3:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 35.740 ms

Loss rate: 0.51%

Run 3: Report of Vivace-loss — Data Link

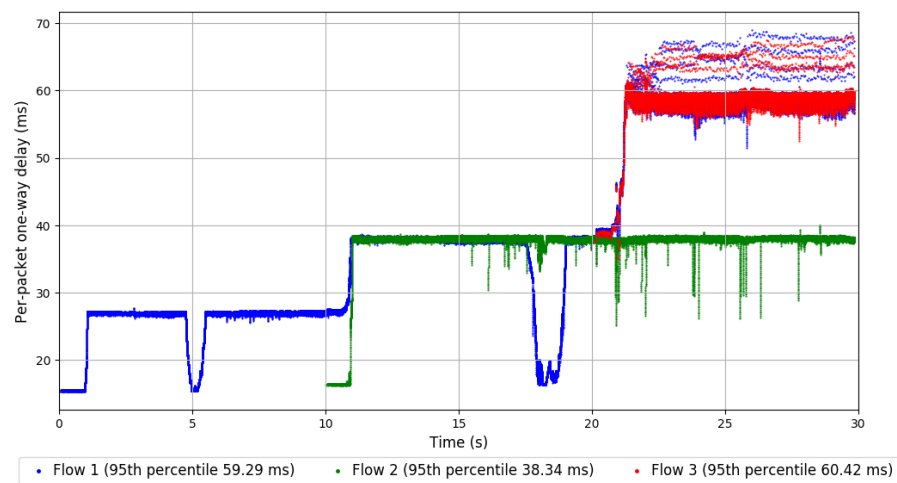
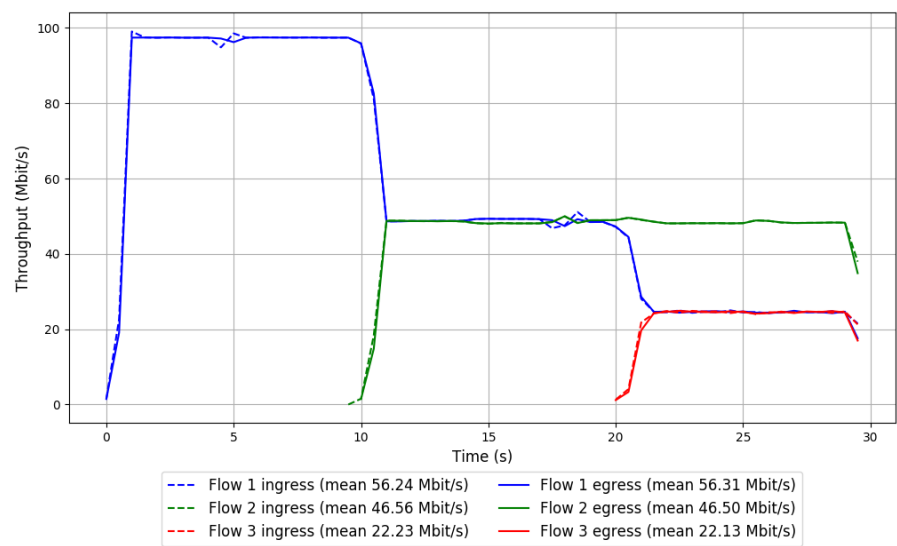


Run 4: Statistics of Vivace-loss

Start at: 2018-04-03 18:34:43
End at: 2018-04-03 18:35:13
Local clock offset: 5.108 ms
Remote clock offset: -2.995 ms

Below is generated by plot.py at 2018-04-04 00:46:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 59.351 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 59.288 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 38.340 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 22.13 Mbit/s
95th percentile per-packet one-way delay: 60.418 ms
Loss rate: 1.60%

Run 4: Report of Vivace-loss — Data Link

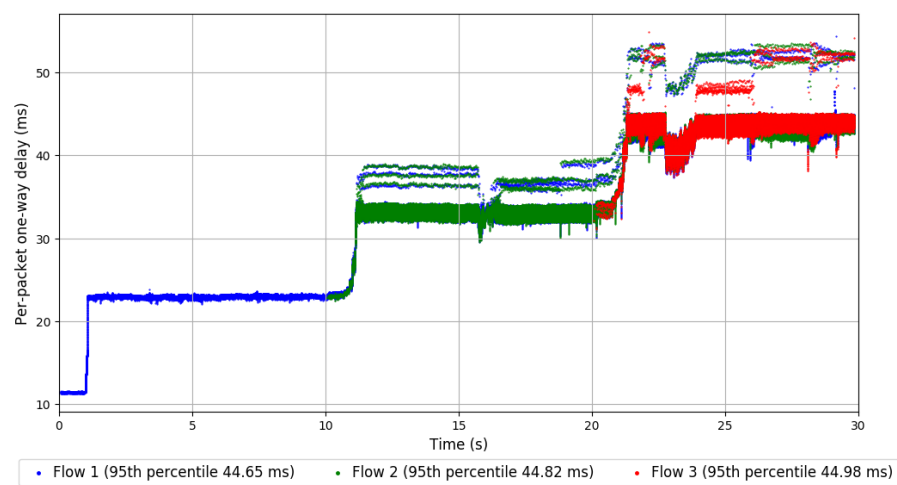
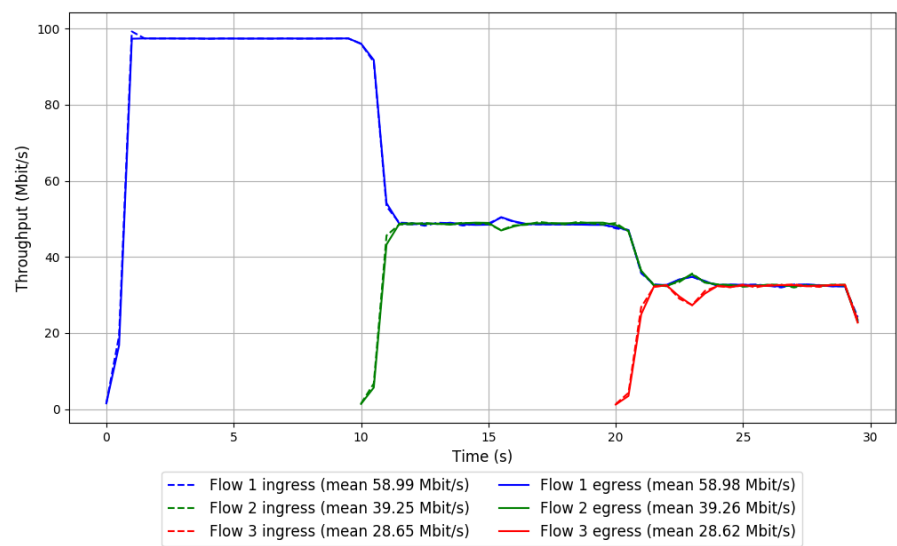


Run 5: Statistics of Vivace-loss

Start at: 2018-04-03 18:55:39
End at: 2018-04-03 18:56:09
Local clock offset: 1.527 ms
Remote clock offset: -4.148 ms

Below is generated by plot.py at 2018-04-04 00:46:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 44.788 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 44.654 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 44.818 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 44.984 ms
Loss rate: 0.62%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-03 19:16:36

End at: 2018-04-03 19:17:06

Local clock offset: 4.889 ms

Remote clock offset: 2.562 ms

Below is generated by plot.py at 2018-04-04 00:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 49.269 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 49.228 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 38.60 Mbit/s

95th percentile per-packet one-way delay: 49.324 ms

Loss rate: 0.24%

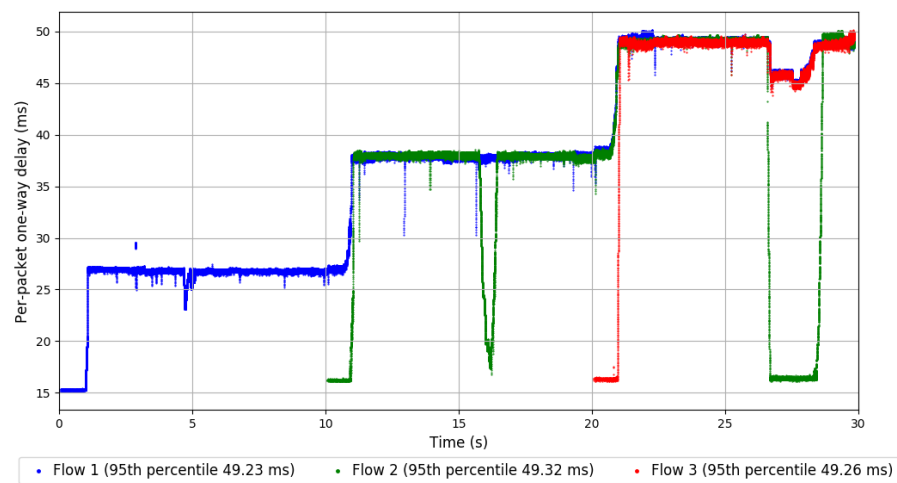
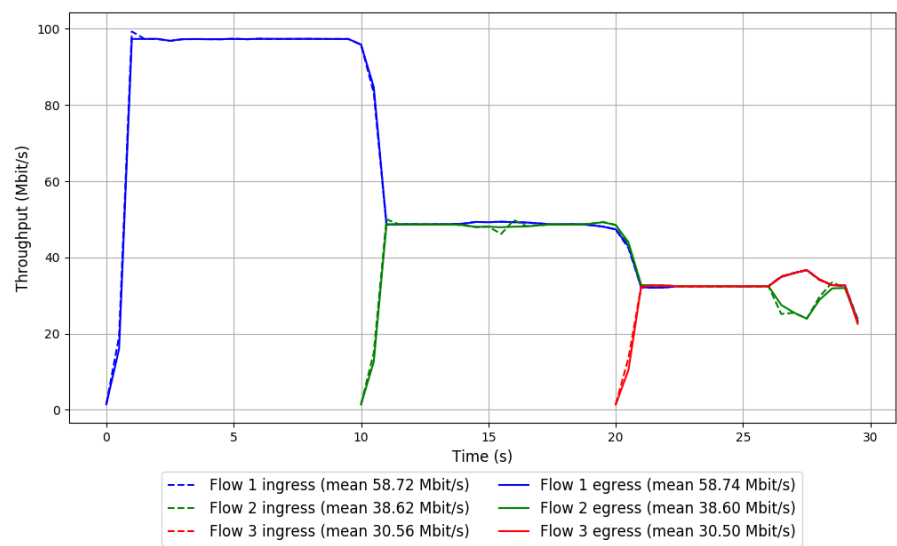
-- Flow 3:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 49.262 ms

Loss rate: 0.60%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-03 19:37:33

End at: 2018-04-03 19:38:03

Local clock offset: 2.862 ms

Remote clock offset: 0.825 ms

Below is generated by plot.py at 2018-04-04 00:46:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 58.526 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 58.391 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 58.789 ms

Loss rate: 0.23%

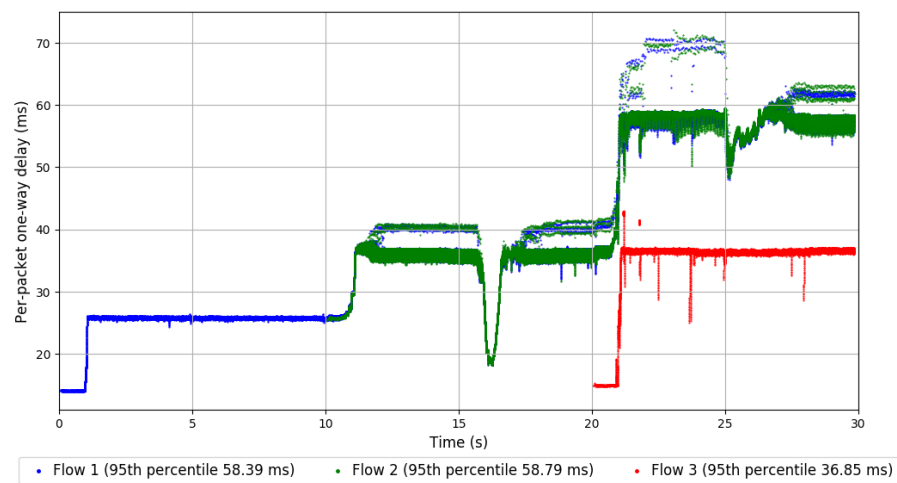
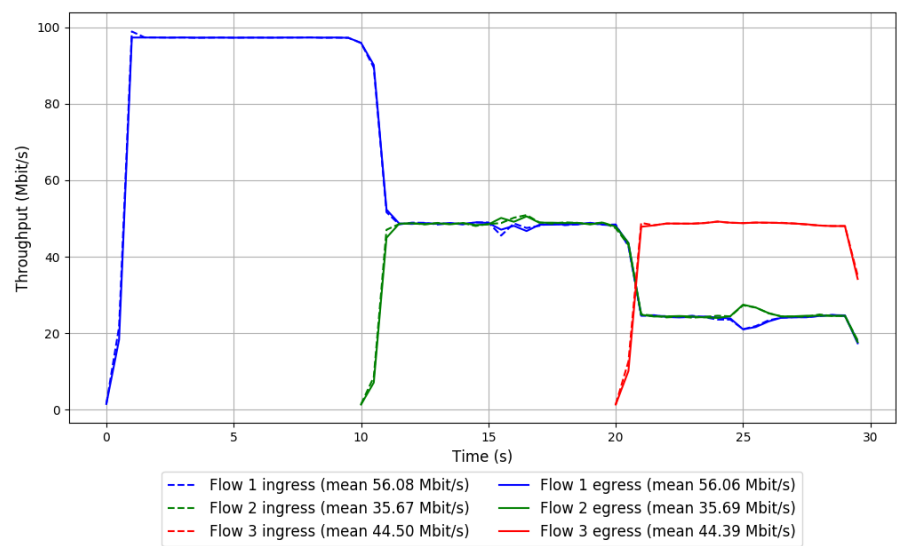
-- Flow 3:

Average throughput: 44.39 Mbit/s

95th percentile per-packet one-way delay: 36.853 ms

Loss rate: 0.50%

Run 7: Report of Vivace-loss — Data Link

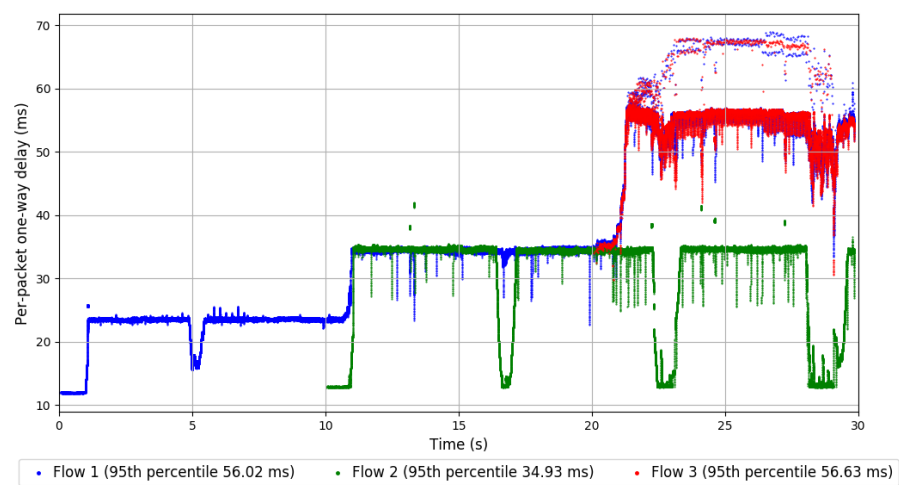
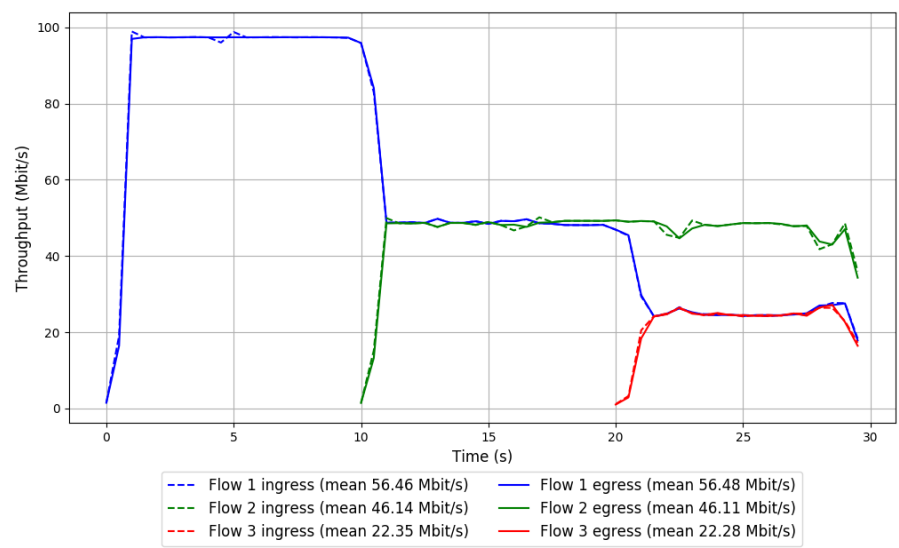


Run 8: Statistics of Vivace-loss

Start at: 2018-04-03 19:58:29
End at: 2018-04-03 19:58:59
Local clock offset: -0.183 ms
Remote clock offset: -2.239 ms

Below is generated by plot.py at 2018-04-04 00:46:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.43 Mbit/s
95th percentile per-packet one-way delay: 56.133 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 56.015 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.11 Mbit/s
95th percentile per-packet one-way delay: 34.931 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 22.28 Mbit/s
95th percentile per-packet one-way delay: 56.628 ms
Loss rate: 0.74%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-03 20:19:26

End at: 2018-04-03 20:19:56

Local clock offset: -1.575 ms

Remote clock offset: 1.097 ms

Below is generated by plot.py at 2018-04-04 00:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 44.450 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 58.56 Mbit/s

95th percentile per-packet one-way delay: 44.390 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 44.440 ms

Loss rate: 0.24%

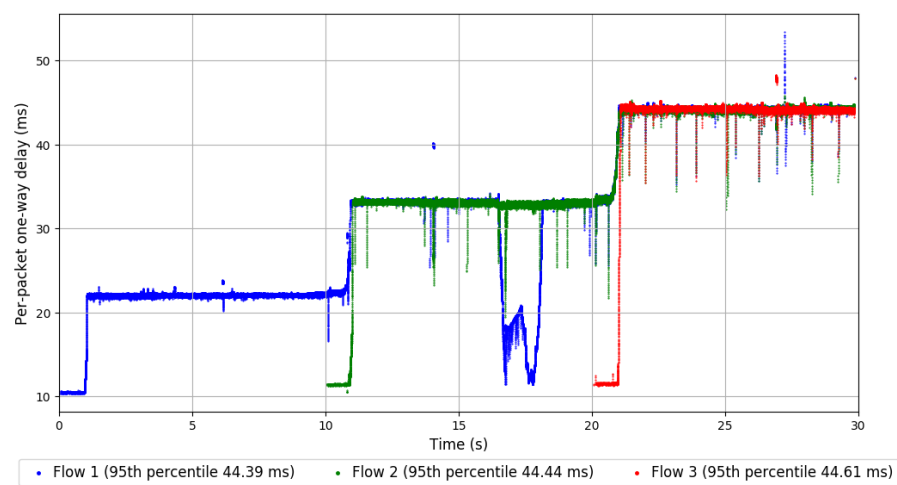
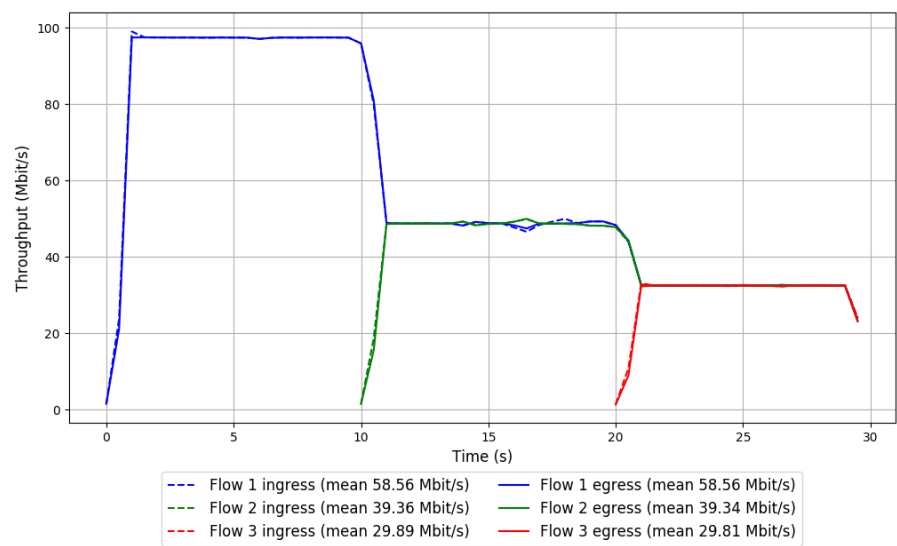
-- Flow 3:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 44.606 ms

Loss rate: 0.62%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-03 20:40:22

End at: 2018-04-03 20:40:52

Local clock offset: 0.894 ms

Remote clock offset: 1.474 ms

Below is generated by plot.py at 2018-04-04 00:47:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 57.948 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 57.856 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 58.170 ms

Loss rate: 0.23%

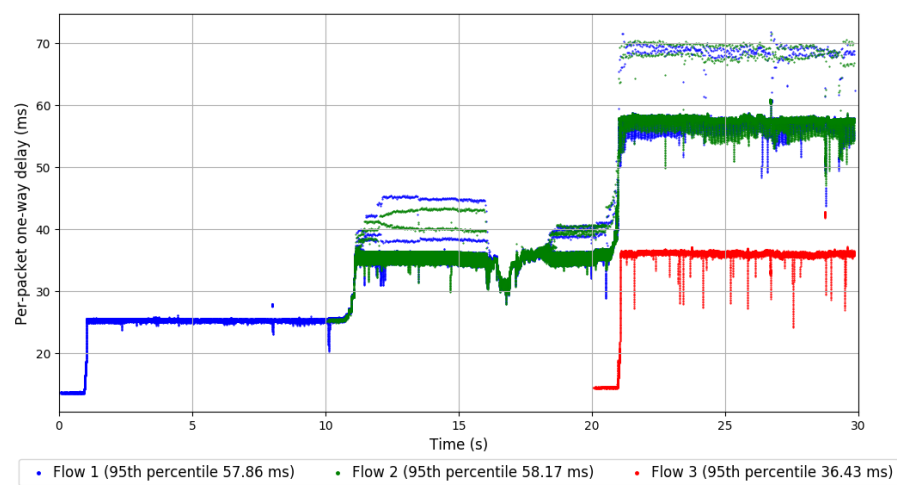
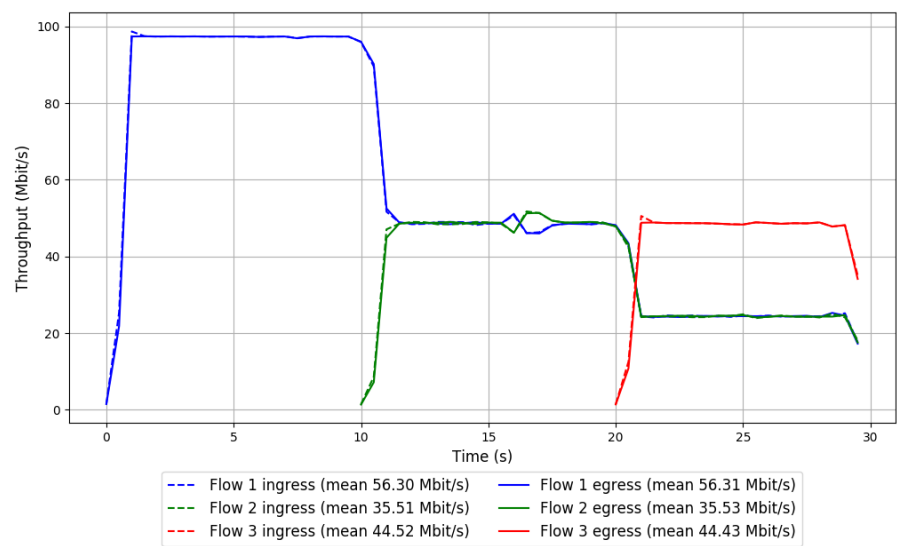
-- Flow 3:

Average throughput: 44.43 Mbit/s

95th percentile per-packet one-way delay: 36.433 ms

Loss rate: 0.50%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-04-03 17:17:56

End at: 2018-04-03 17:18:26

Local clock offset: 4.212 ms

Remote clock offset: 5.135 ms

Below is generated by plot.py at 2018-04-04 00:47:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 55.230 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 54.01 Mbit/s

95th percentile per-packet one-way delay: 54.644 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 44.05 Mbit/s

95th percentile per-packet one-way delay: 36.771 ms

Loss rate: 0.09%

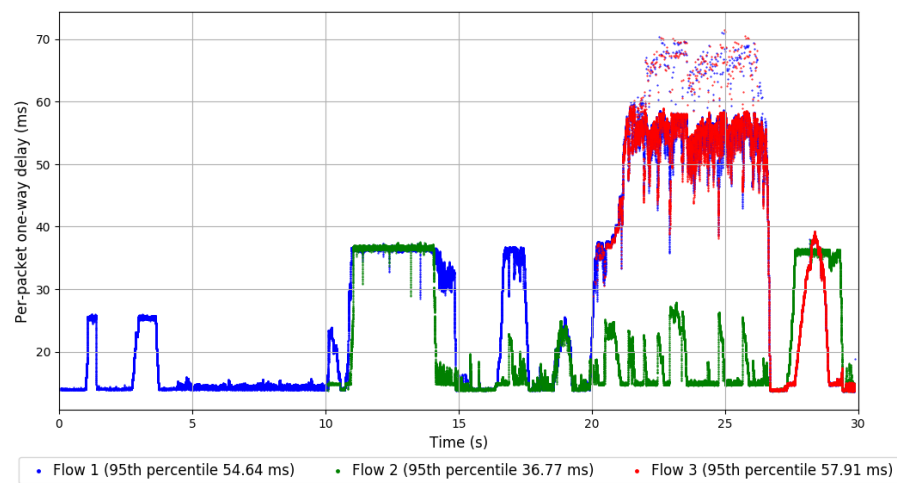
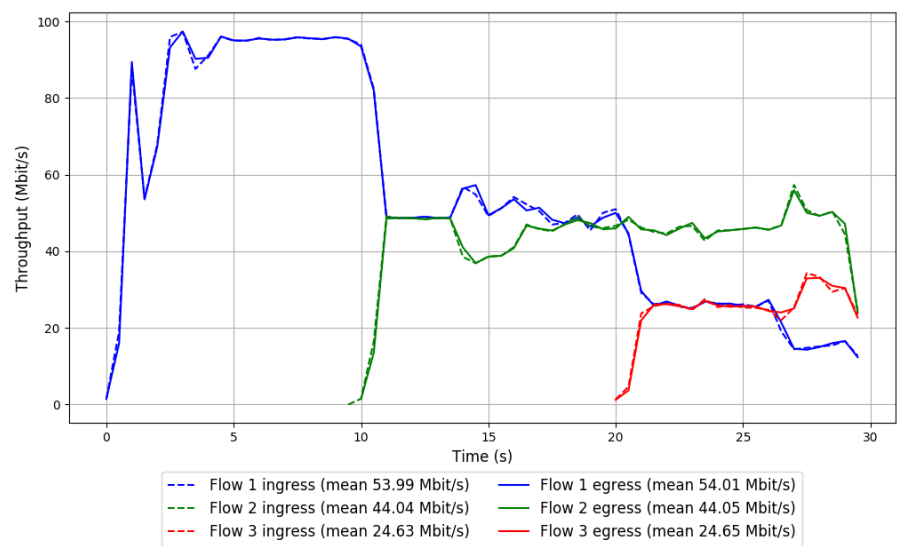
-- Flow 3:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 57.910 ms

Loss rate: 0.33%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-03 17:39:19

End at: 2018-04-03 17:39:49

Local clock offset: 0.49 ms

Remote clock offset: 2.387 ms

Below is generated by plot.py at 2018-04-04 00:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 50.058 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 53.74 Mbit/s

95th percentile per-packet one-way delay: 32.620 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 36.64 Mbit/s

95th percentile per-packet one-way delay: 52.103 ms

Loss rate: 0.23%

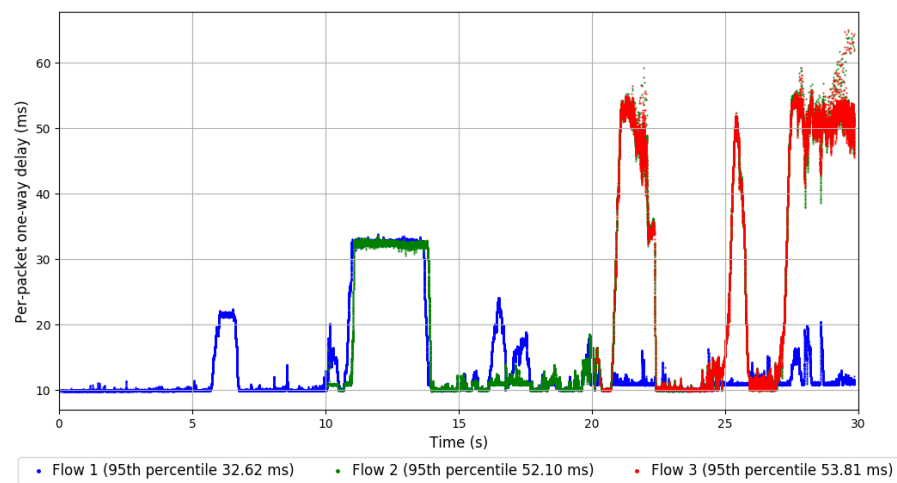
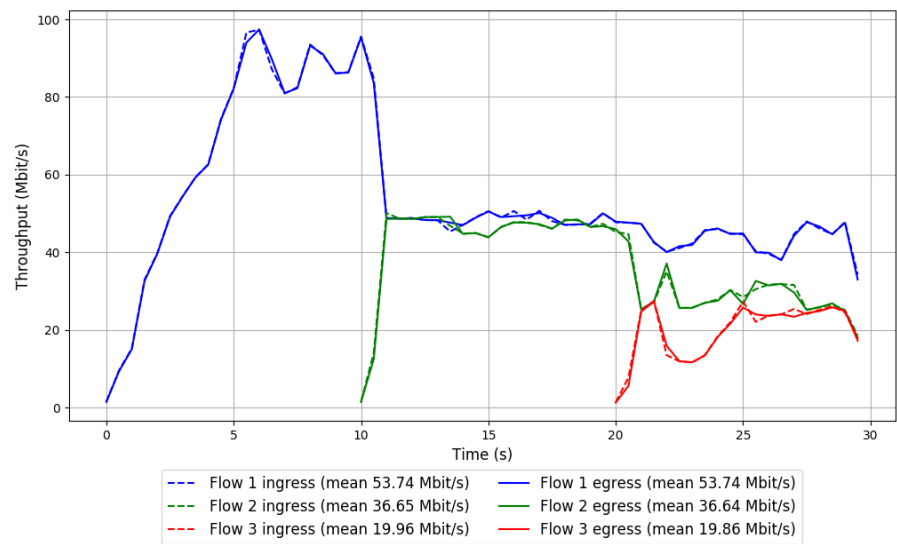
-- Flow 3:

Average throughput: 19.86 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.80%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-03 18:00:40

End at: 2018-04-03 18:01:10

Local clock offset: 3.792 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-04-04 00:47:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.49 Mbit/s

95th percentile per-packet one-way delay: 56.597 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 55.683 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 57.629 ms

Loss rate: 0.06%

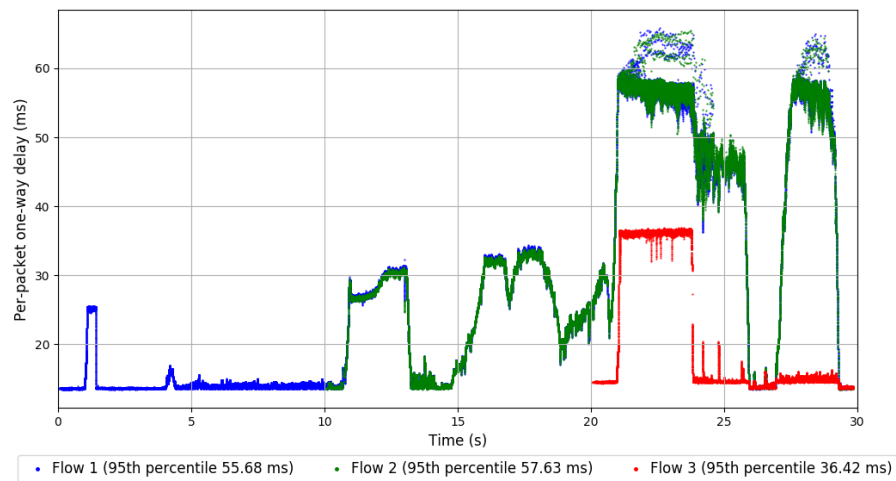
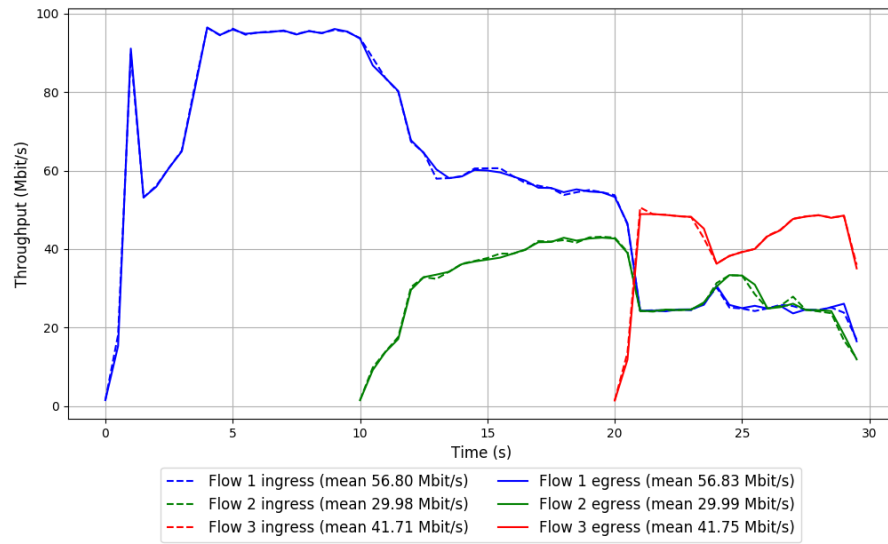
-- Flow 3:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 36.419 ms

Loss rate: 0.28%

Run 3: Report of Vivace-LTE — Data Link

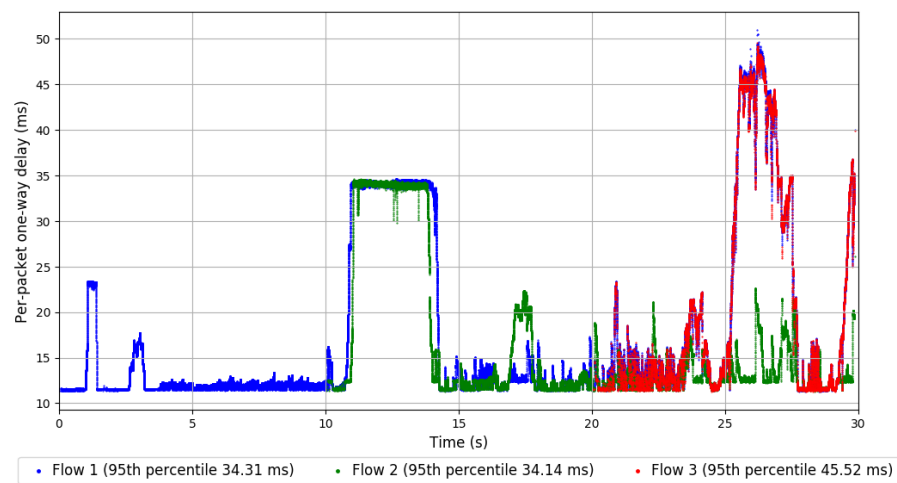
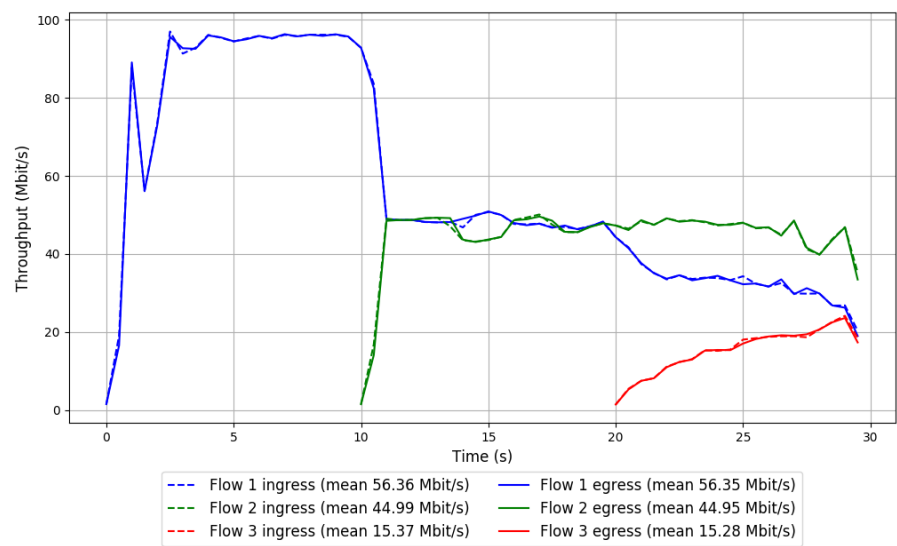


Run 4: Statistics of Vivace-LTE

Start at: 2018-04-03 18:36:59
End at: 2018-04-03 18:37:29
Local clock offset: 2.258 ms
Remote clock offset: -2.177 ms

Below is generated by plot.py at 2018-04-04 00:47:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 34.292 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 34.307 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 44.95 Mbit/s
95th percentile per-packet one-way delay: 34.143 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 15.28 Mbit/s
95th percentile per-packet one-way delay: 45.520 ms
Loss rate: 0.76%

Run 4: Report of Vivace-LTE — Data Link

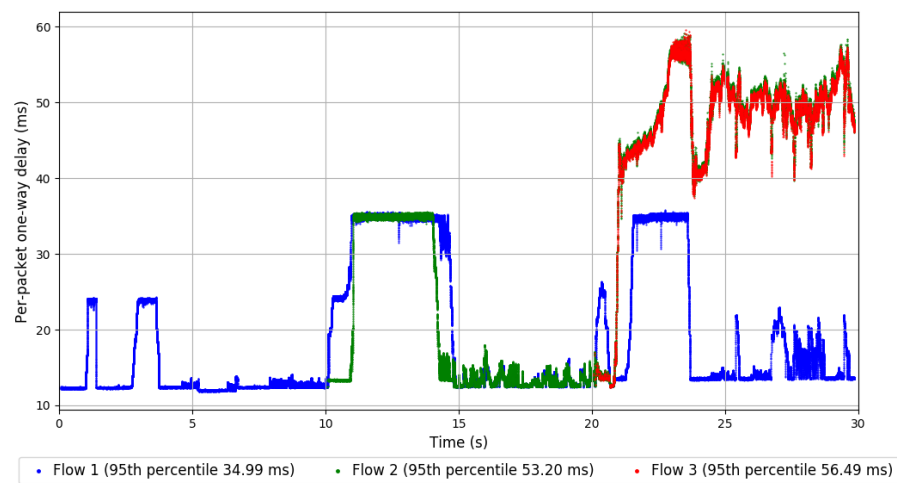
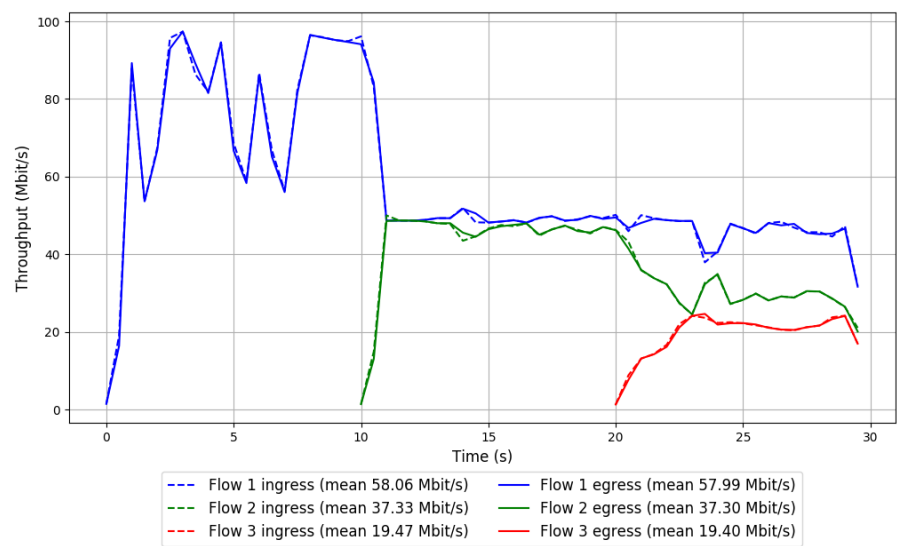


Run 5: Statistics of Vivace-LTE

Start at: 2018-04-03 18:57:55
End at: 2018-04-03 18:58:25
Local clock offset: 2.867 ms
Remote clock offset: -2.522 ms

Below is generated by plot.py at 2018-04-04 00:48:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.15 Mbit/s
95th percentile per-packet one-way delay: 51.365 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 34.993 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 53.198 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 19.40 Mbit/s
95th percentile per-packet one-way delay: 56.491 ms
Loss rate: 0.68%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-03 19:18:53

End at: 2018-04-03 19:19:23

Local clock offset: 4.427 ms

Remote clock offset: 4.404 ms

Below is generated by plot.py at 2018-04-04 00:48:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 45.398 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 36.020 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.44 Mbit/s

95th percentile per-packet one-way delay: 47.688 ms

Loss rate: 0.08%

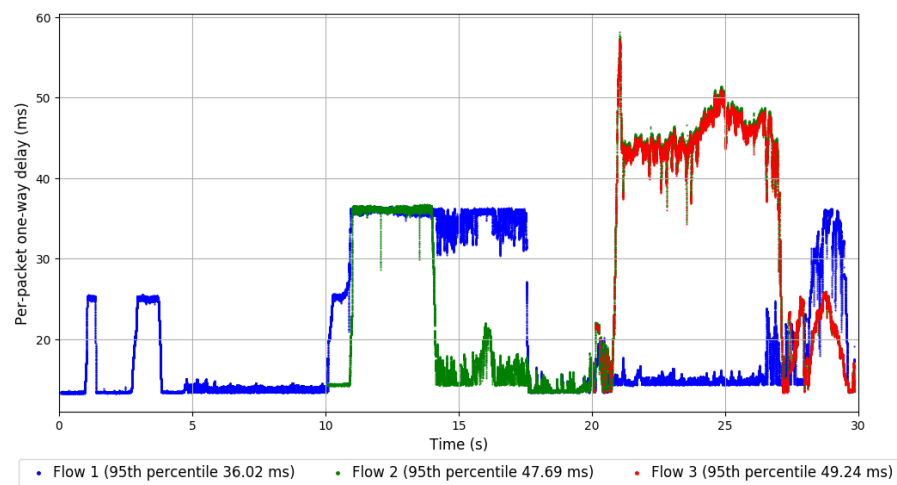
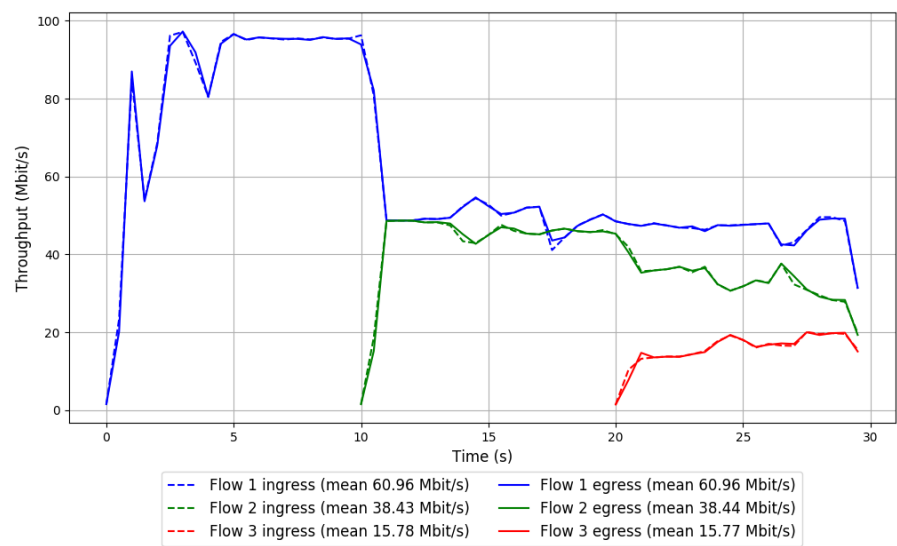
-- Flow 3:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 49.236 ms

Loss rate: 0.35%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-03 19:39:49

End at: 2018-04-03 19:40:19

Local clock offset: 2.783 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-04-04 00:48:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.78 Mbit/s

95th percentile per-packet one-way delay: 45.687 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 58.78 Mbit/s

95th percentile per-packet one-way delay: 44.555 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 35.79 Mbit/s

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

Loss rate: 0.25%

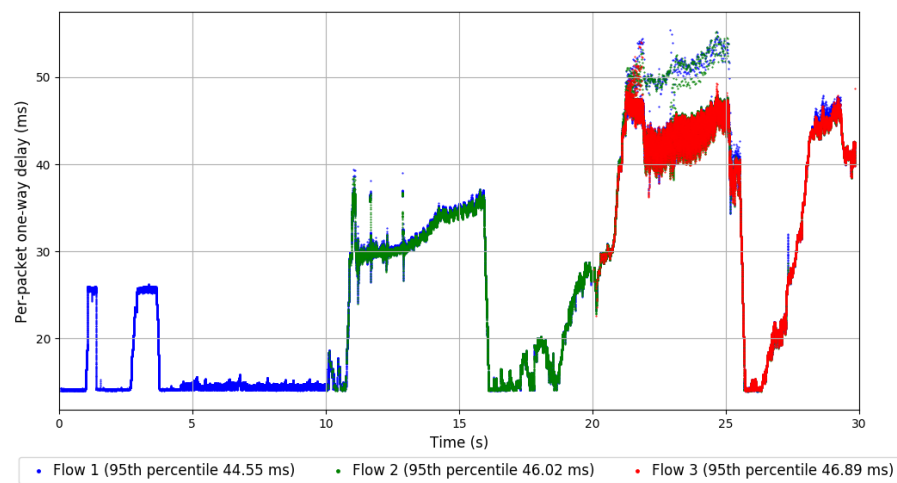
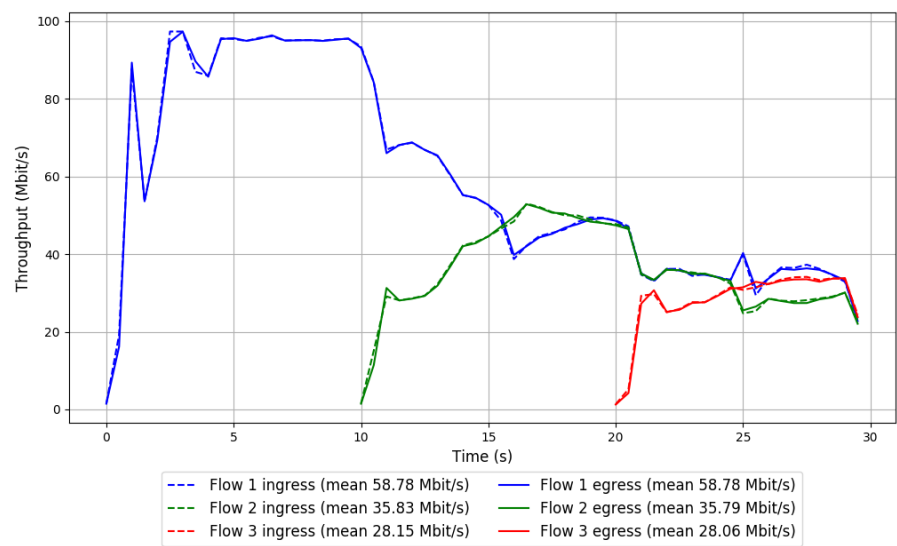
-- Flow 3:

Average throughput: 28.06 Mbit/s

95th percentile per-packet one-way delay: 46.892 ms

Loss rate: 0.62%

Run 7: Report of Vivace-LTE — Data Link

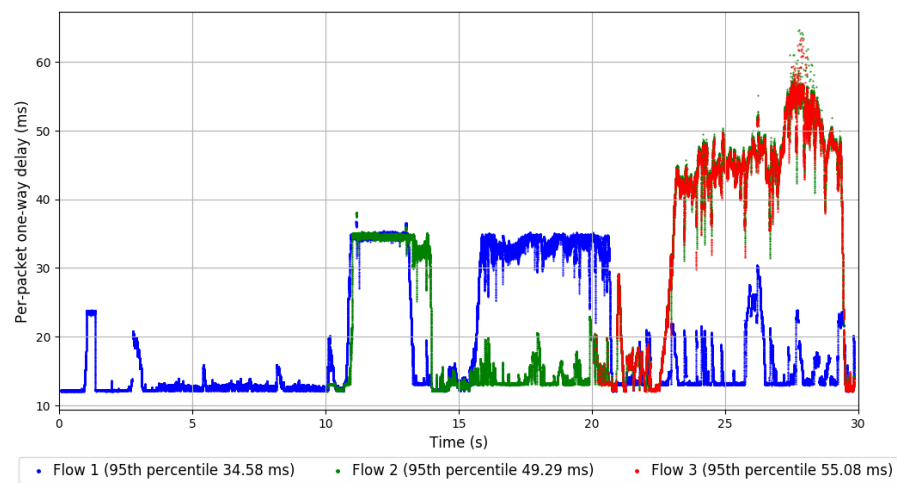
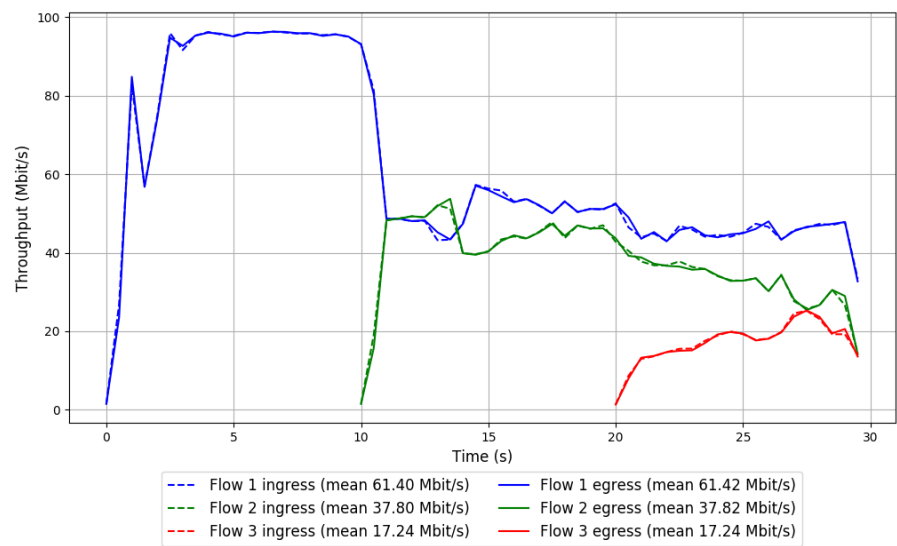


Run 8: Statistics of Vivace-LTE

Start at: 2018-04-03 20:00:45
End at: 2018-04-03 20:01:15
Local clock offset: 1.149 ms
Remote clock offset: -1.146 ms

Below is generated by plot.py at 2018-04-04 00:48:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 46.823 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 34.580 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 49.292 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 17.24 Mbit/s
95th percentile per-packet one-way delay: 55.083 ms
Loss rate: 0.30%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-03 20:21:43

End at: 2018-04-03 20:22:13

Local clock offset: -0.14 ms

Remote clock offset: 0.598 ms

Below is generated by plot.py at 2018-04-04 00:48:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.32 Mbit/s

95th percentile per-packet one-way delay: 45.717 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 44.803 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 36.86 Mbit/s

95th percentile per-packet one-way delay: 46.074 ms

Loss rate: 0.25%

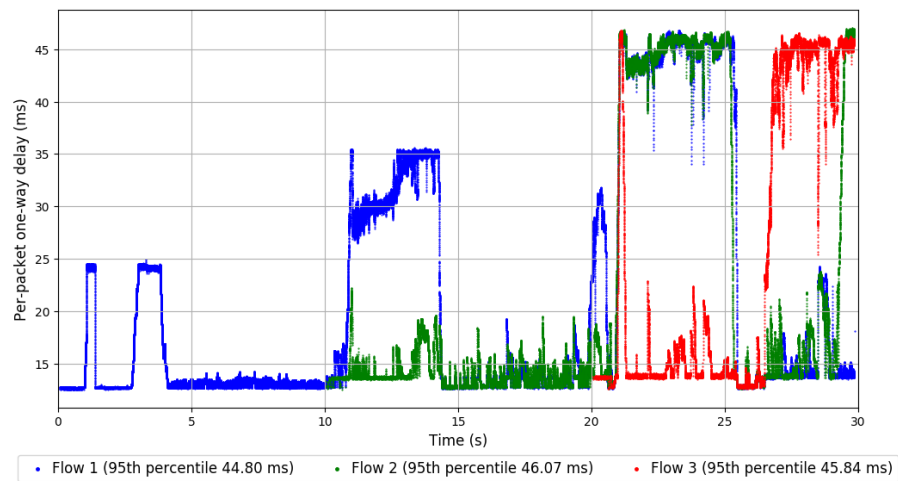
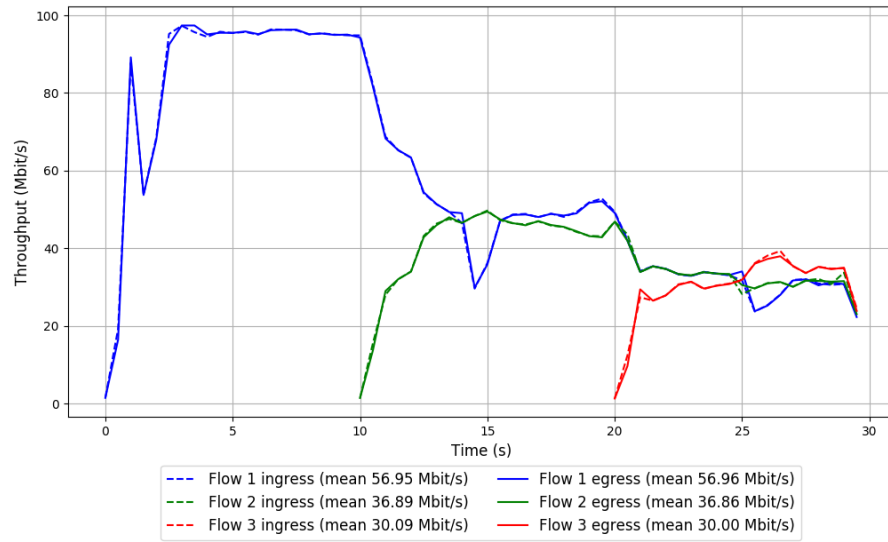
-- Flow 3:

Average throughput: 30.00 Mbit/s

95th percentile per-packet one-way delay: 45.835 ms

Loss rate: 0.63%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-03 20:42:39

End at: 2018-04-03 20:43:09

Local clock offset: -0.189 ms

Remote clock offset: 1.493 ms

Below is generated by plot.py at 2018-04-04 00:48:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.45 Mbit/s

95th percentile per-packet one-way delay: 54.716 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 54.198 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 43.62 Mbit/s

95th percentile per-packet one-way delay: 34.790 ms

Loss rate: 0.17%

-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 56.090 ms

Loss rate: 0.74%

Run 10: Report of Vivace-LTE — Data Link

