

Pantheon Report

Generated at 2018-04-11 03:06:54 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

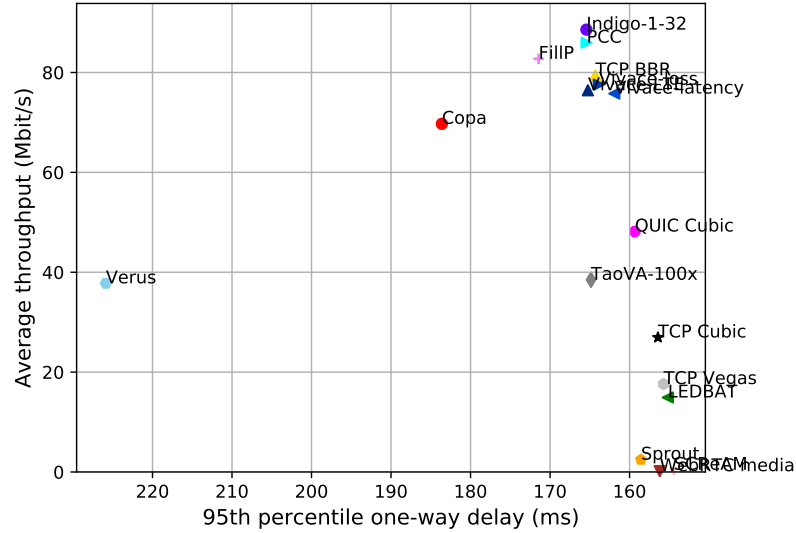
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

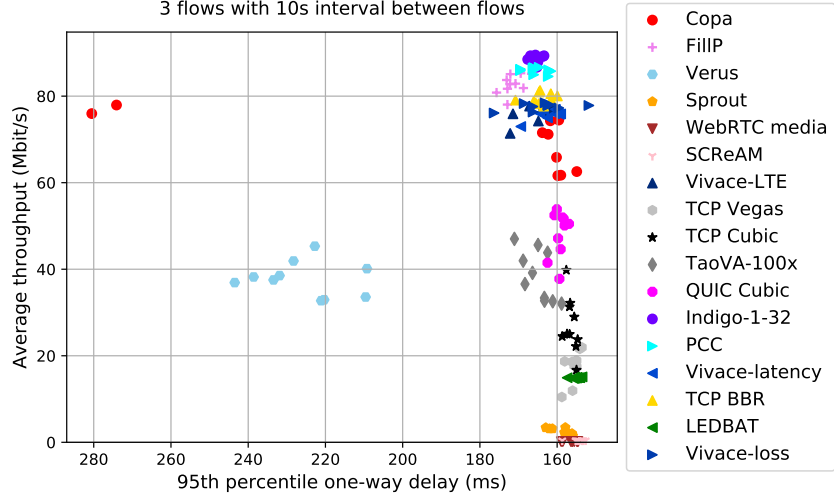
Git summary:

```
branch: master @ 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 @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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 AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	50.95	32.08	21.41	163.15	165.01	165.21	8.36	10.21	12.59
TCP Cubic	10	17.22	10.54	8.16	156.14	155.52	156.53	0.33	0.70	1.01
LEDBAT	10	9.69	6.36	3.07	154.59	154.80	154.95	0.00	0.00	0.00
PCC	10	78.71	8.32	5.18	165.26	165.40	164.90	2.84	4.21	3.69
QUIC Cubic	10	28.24	22.81	14.90	159.23	158.78	158.12	1.85	2.06	1.44
SCReAM	10	0.22	0.22	0.22	153.18	154.14	153.27	0.00	0.00	0.00
WebRTC media	9	0.06	0.06	0.05	155.11	155.54	155.33	0.00	0.00	0.00
Sprout	10	1.28	1.29	0.99	156.11	157.68	156.07	0.65	0.45	0.11
TaoVA-100x	10	22.41	17.43	13.83	163.97	164.84	165.89	7.96	7.47	8.36
TCP Vegas	10	9.15	8.99	7.48	154.96	155.83	156.58	0.31	0.56	1.68
Verus	10	26.34	14.74	9.97	222.28	212.93	177.09	83.39	72.67	43.44
Copa	10	48.76	24.97	13.18	182.17	174.73	166.04	16.50	10.18	9.18
FillP	10	38.22	42.70	48.59	169.07	173.05	170.73	17.72	23.76	19.35
Indigo-1-32	9	61.03	29.41	26.47	164.77	165.74	165.22	52.68	73.81	77.60
Vivace-latency	10	65.85	12.42	5.04	161.82	162.53	162.38	0.43	0.62	0.66
Vivace-loss	10	68.81	11.44	3.50	163.58	164.07	163.89	1.15	2.92	3.40
Vivace-LTE	10	66.02	13.40	4.59	165.14	164.88	164.08	0.79	1.44	2.13

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 22:24:56

End at: 2018-04-10 22:25:26

Local clock offset: 1.746 ms

Remote clock offset: 1.861 ms

Below is generated by plot.py at 2018-04-11 02:46:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.69 Mbit/s

95th percentile per-packet one-way delay: 163.508 ms

Loss rate: 10.71%

-- Flow 1:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 159.314 ms

Loss rate: 10.11%

-- Flow 2:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 166.077 ms

Loss rate: 9.89%

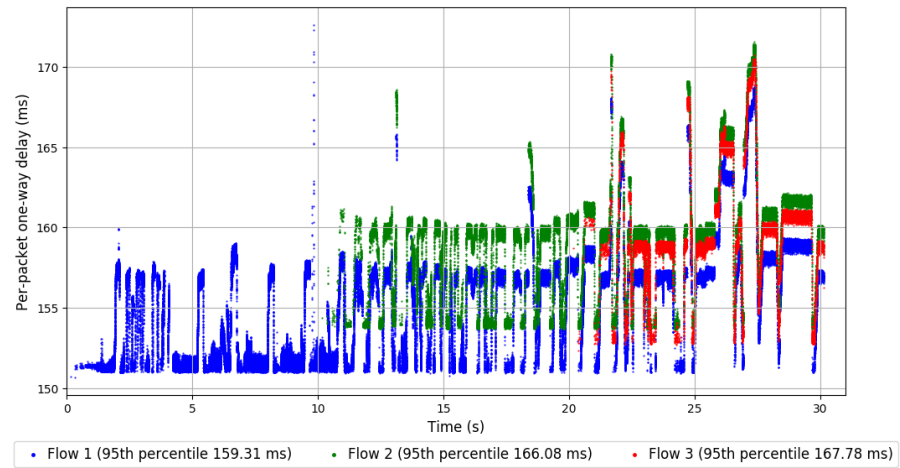
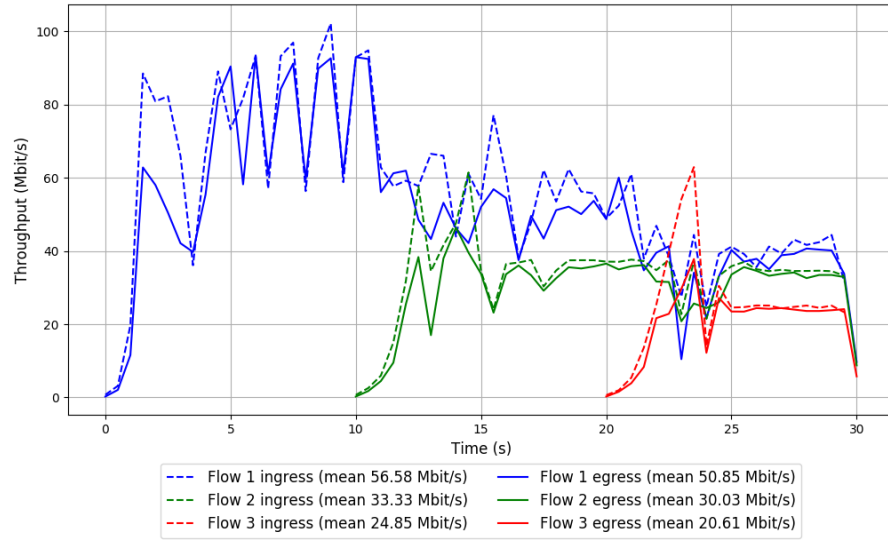
-- Flow 3:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 167.776 ms

Loss rate: 17.06%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 22:49:21

End at: 2018-04-10 22:49:51

Local clock offset: 1.555 ms

Remote clock offset: 2.518 ms

Below is generated by plot.py at 2018-04-11 02:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.24 Mbit/s

95th percentile per-packet one-way delay: 164.797 ms

Loss rate: 10.63%

-- Flow 1:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 165.425 ms

Loss rate: 8.91%

-- Flow 2:

Average throughput: 31.03 Mbit/s

95th percentile per-packet one-way delay: 161.624 ms

Loss rate: 12.14%

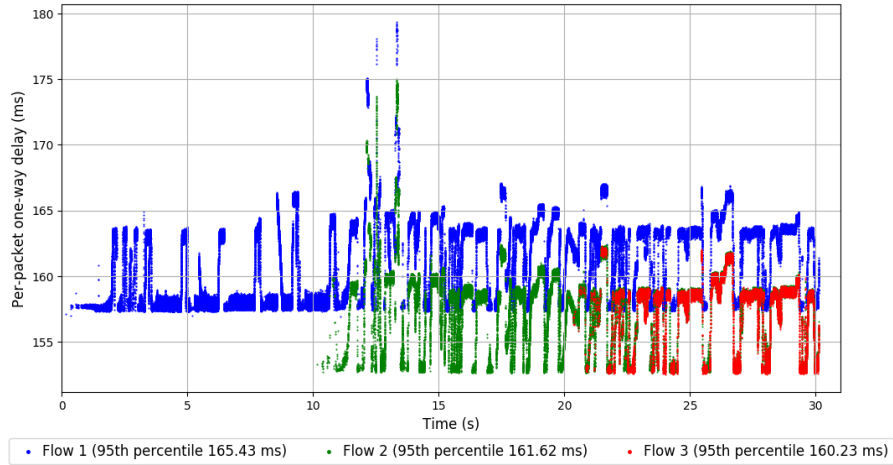
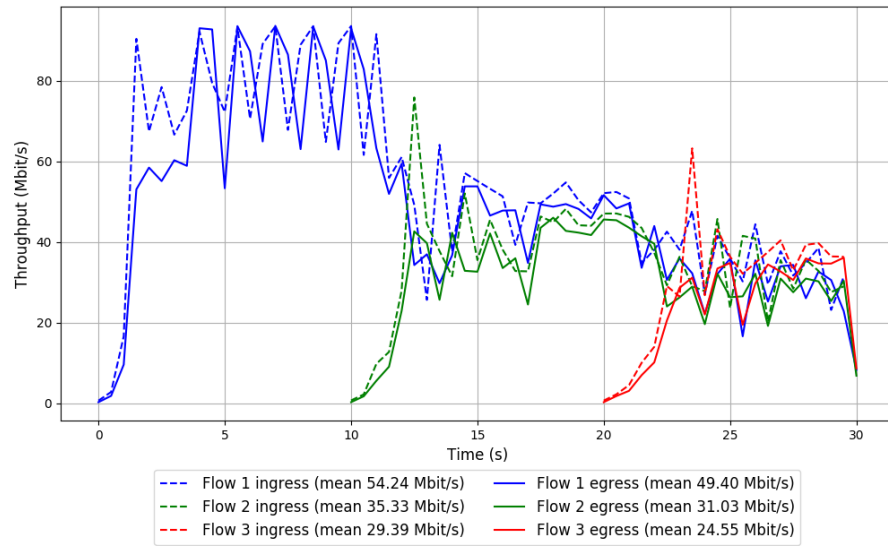
-- Flow 3:

Average throughput: 24.55 Mbit/s

95th percentile per-packet one-way delay: 160.229 ms

Loss rate: 16.48%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 23:13:54

End at: 2018-04-10 23:14:24

Local clock offset: 1.729 ms

Remote clock offset: 2.732 ms

Below is generated by plot.py at 2018-04-11 02:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 161.636 ms

Loss rate: 7.42%

-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 161.423 ms

Loss rate: 6.63%

-- Flow 2:

Average throughput: 27.91 Mbit/s

95th percentile per-packet one-way delay: 161.929 ms

Loss rate: 9.14%

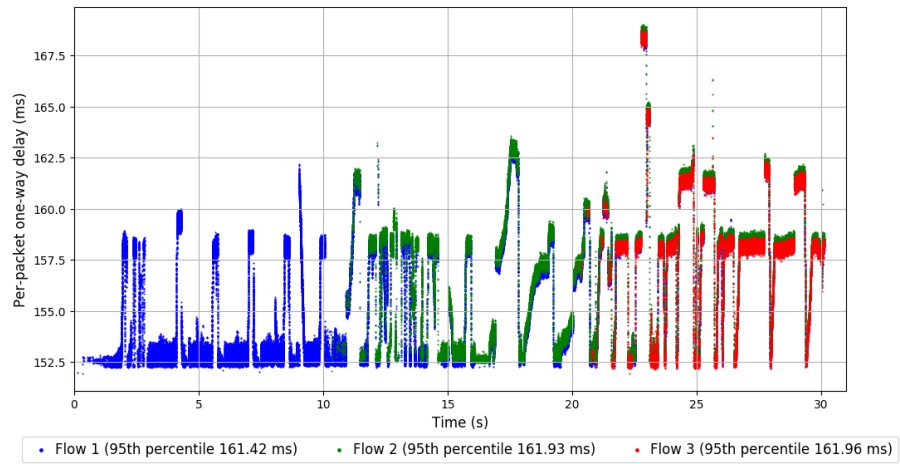
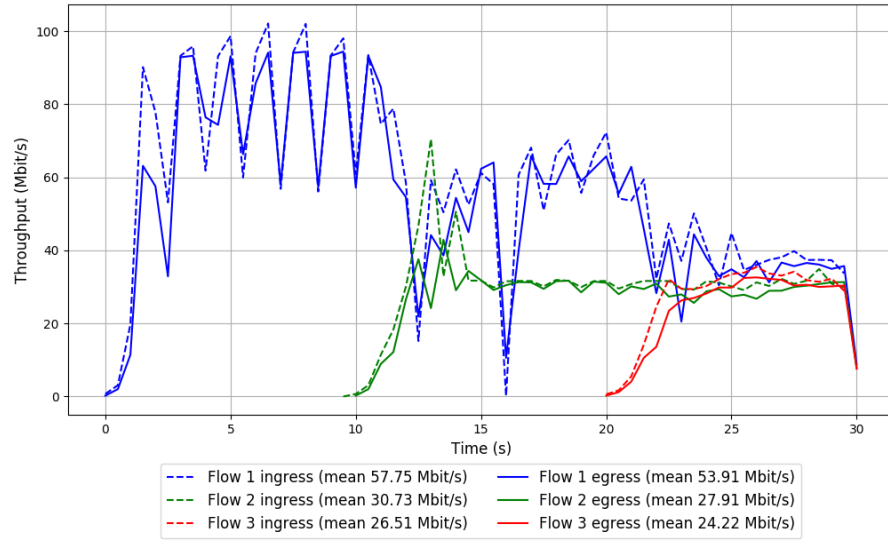
-- Flow 3:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 161.959 ms

Loss rate: 8.63%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 23:38:19

End at: 2018-04-10 23:38:49

Local clock offset: 1.865 ms

Remote clock offset: 2.446 ms

Below is generated by plot.py at 2018-04-11 02:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.40 Mbit/s

95th percentile per-packet one-way delay: 165.561 ms

Loss rate: 8.78%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 161.884 ms

Loss rate: 7.66%

-- Flow 2:

Average throughput: 28.14 Mbit/s

95th percentile per-packet one-way delay: 167.483 ms

Loss rate: 9.86%

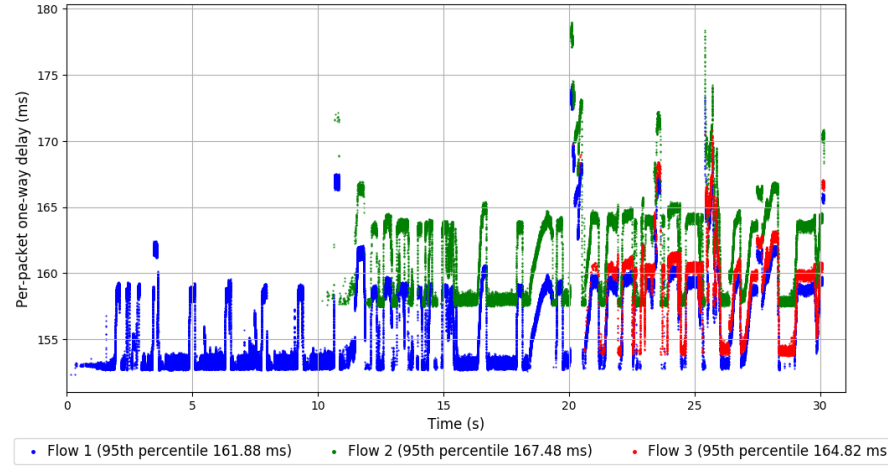
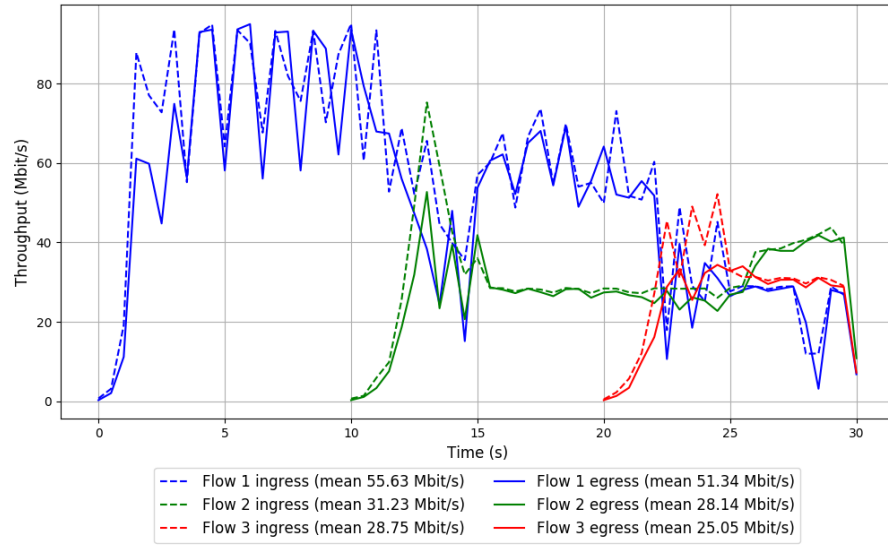
-- Flow 3:

Average throughput: 25.05 Mbit/s

95th percentile per-packet one-way delay: 164.822 ms

Loss rate: 12.92%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-11 00:02:42

End at: 2018-04-11 00:03:12

Local clock offset: 1.93 ms

Remote clock offset: 7.56 ms

Below is generated by plot.py at 2018-04-11 02:46:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 164.436 ms

Loss rate: 9.92%

-- Flow 1:

Average throughput: 52.27 Mbit/s

95th percentile per-packet one-way delay: 164.038 ms

Loss rate: 8.57%

-- Flow 2:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 164.705 ms

Loss rate: 11.80%

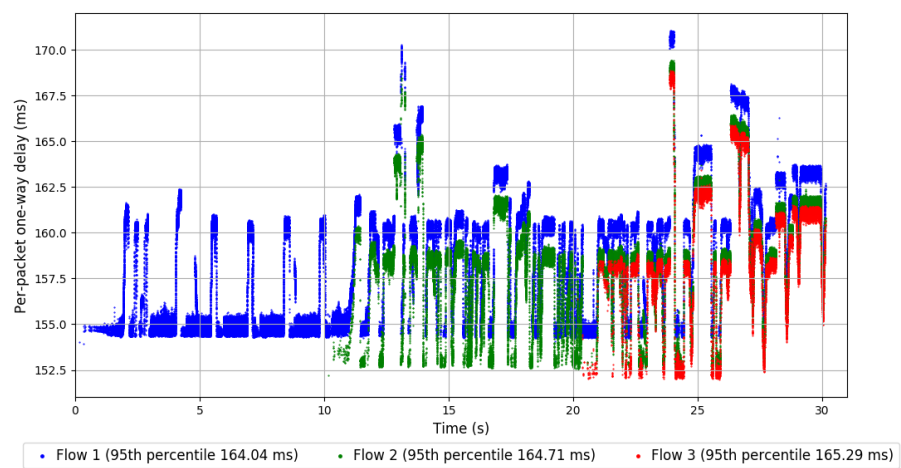
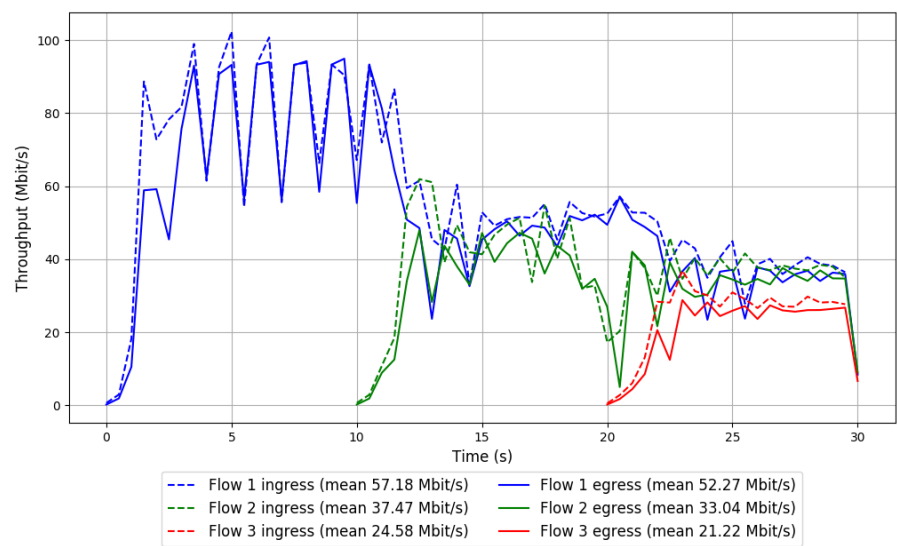
-- Flow 3:

Average throughput: 21.22 Mbit/s

95th percentile per-packet one-way delay: 165.291 ms

Loss rate: 13.64%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-11 00:27:14

End at: 2018-04-11 00:27:44

Local clock offset: 3.487 ms

Remote clock offset: 4.413 ms

Below is generated by plot.py at 2018-04-11 02:46:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.96 Mbit/s

95th percentile per-packet one-way delay: 164.678 ms

Loss rate: 9.59%

-- Flow 1:

Average throughput: 49.78 Mbit/s

95th percentile per-packet one-way delay: 163.440 ms

Loss rate: 9.13%

-- Flow 2:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 166.222 ms

Loss rate: 10.14%

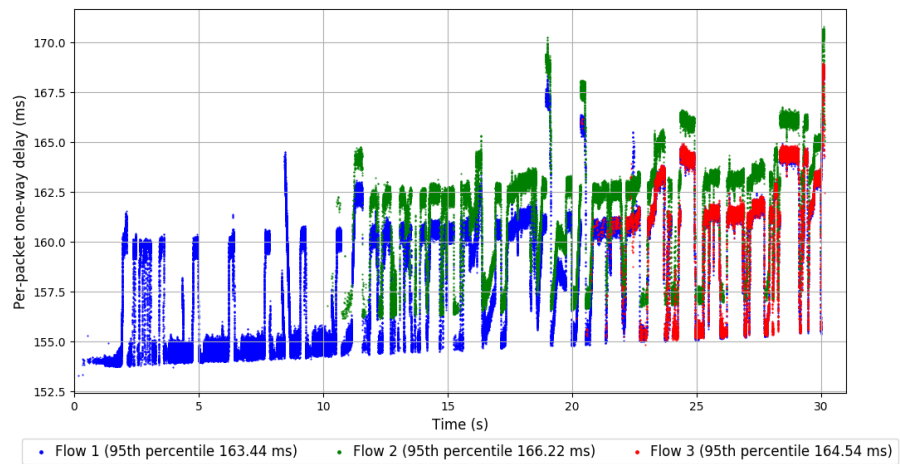
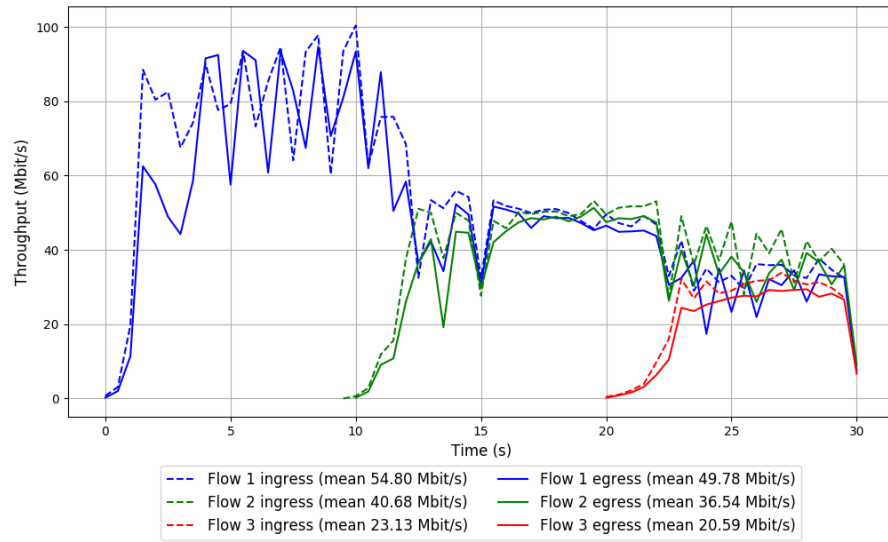
-- Flow 3:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 164.542 ms

Loss rate: 10.91%

Run 6: Report of TCP BBR — Data Link

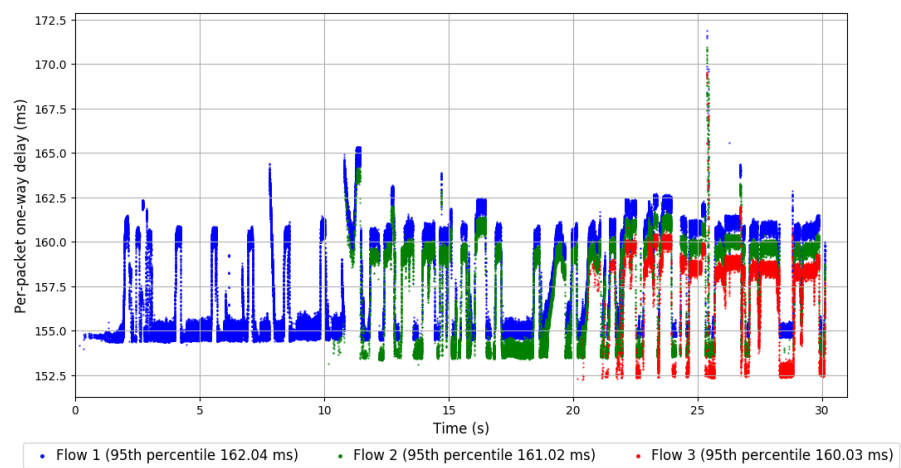
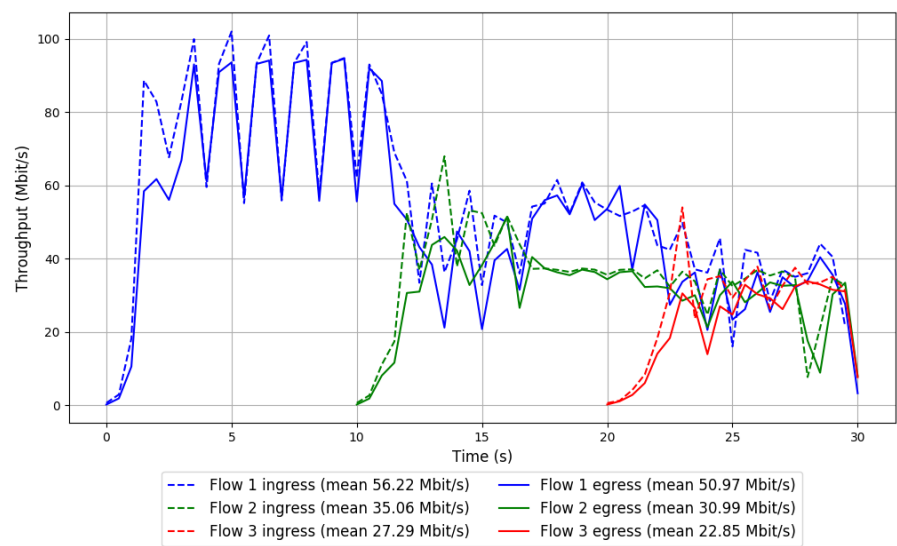


Run 7: Statistics of TCP BBR

Start at: 2018-04-11 00:51:52
End at: 2018-04-11 00:52:22
Local clock offset: 37.465 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-04-11 02:46:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.20 Mbit/s
95th percentile per-packet one-way delay: 161.548 ms
Loss rate: 10.62%
-- Flow 1:
Average throughput: 50.97 Mbit/s
95th percentile per-packet one-way delay: 162.037 ms
Loss rate: 9.32%
-- Flow 2:
Average throughput: 30.99 Mbit/s
95th percentile per-packet one-way delay: 161.017 ms
Loss rate: 11.58%
-- Flow 3:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 160.029 ms
Loss rate: 16.24%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-11 01:16:25

End at: 2018-04-11 01:16:55

Local clock offset: 49.858 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-04-11 02:46:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 166.081 ms

Loss rate: 8.33%

-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 165.663 ms

Loss rate: 7.70%

-- Flow 2:

Average throughput: 32.67 Mbit/s

95th percentile per-packet one-way delay: 165.565 ms

Loss rate: 9.21%

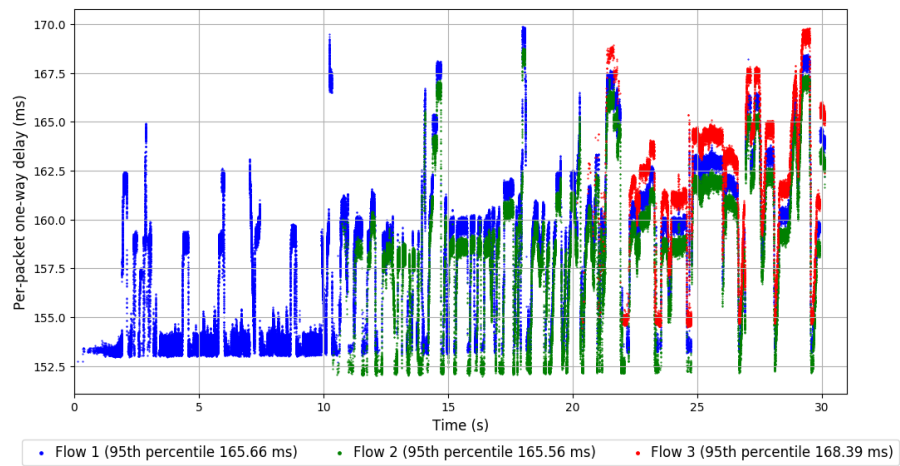
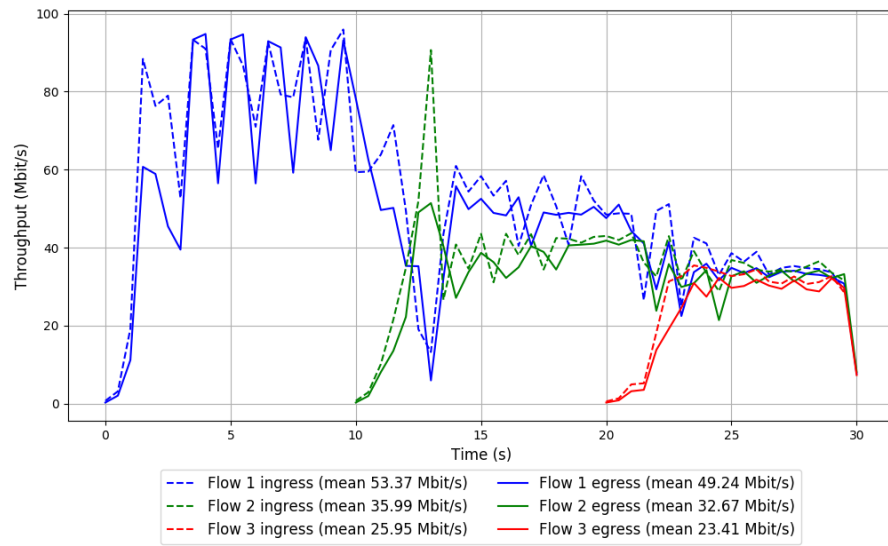
-- Flow 3:

Average throughput: 23.41 Mbit/s

95th percentile per-packet one-way delay: 168.386 ms

Loss rate: 9.79%

Run 8: Report of TCP BBR — Data Link

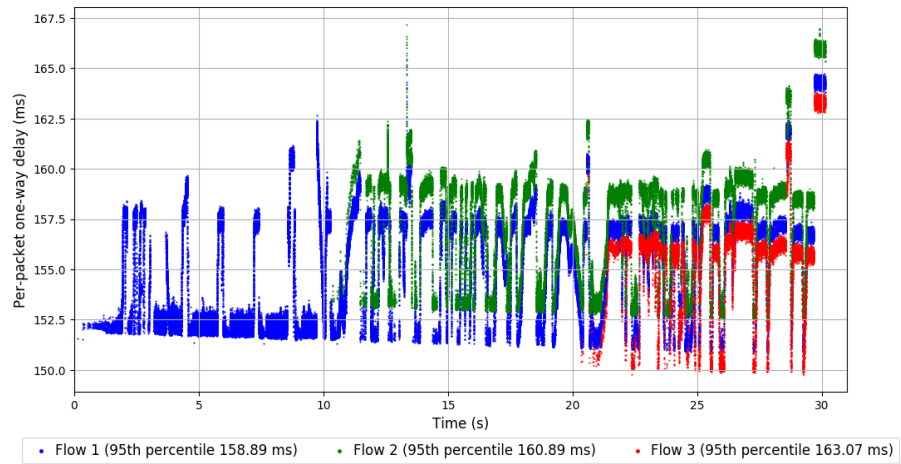
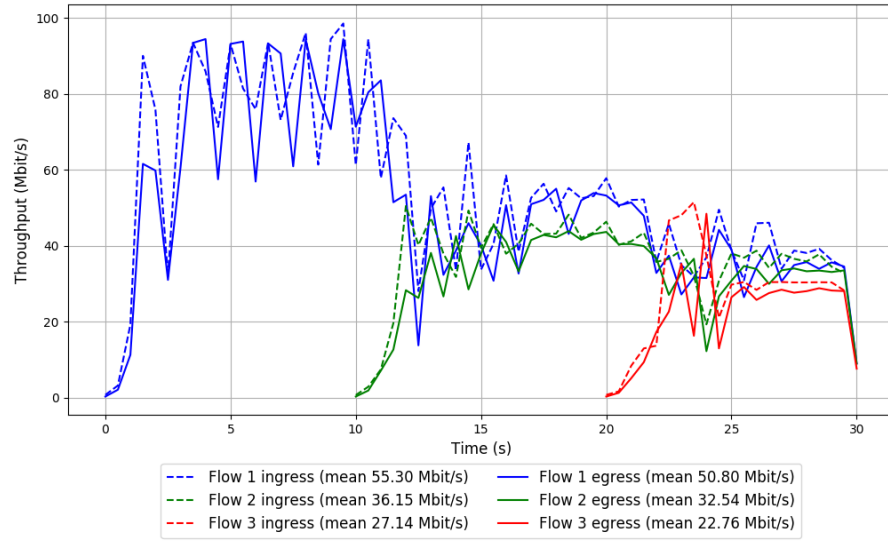


Run 9: Statistics of TCP BBR

Start at: 2018-04-11 01:41:06
End at: 2018-04-11 01:41:36
Local clock offset: 42.392 ms
Remote clock offset: 11.349 ms

Below is generated by plot.py at 2018-04-11 02:48:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.04 Mbit/s
95th percentile per-packet one-way delay: 159.926 ms
Loss rate: 9.42%
-- Flow 1:
Average throughput: 50.80 Mbit/s
95th percentile per-packet one-way delay: 158.888 ms
Loss rate: 8.10%
-- Flow 2:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 160.894 ms
Loss rate: 9.97%
-- Flow 3:
Average throughput: 22.76 Mbit/s
95th percentile per-packet one-way delay: 163.068 ms
Loss rate: 16.05%

Run 9: Report of TCP BBR — Data Link

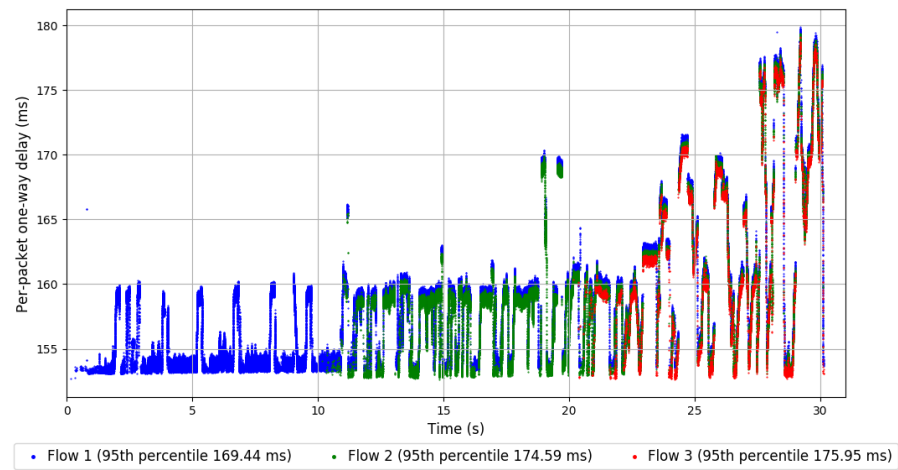
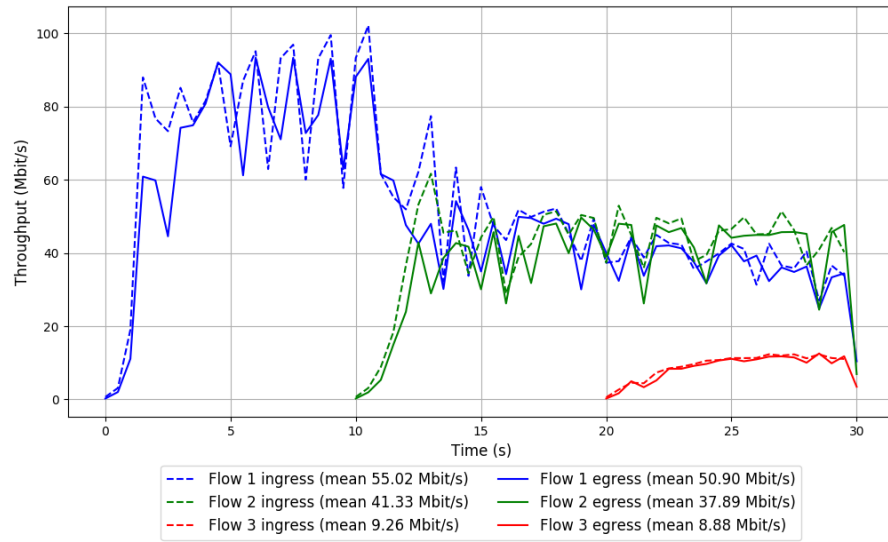


Run 10: Statistics of TCP BBR

Start at: 2018-04-11 02:05:28
End at: 2018-04-11 02:05:58
Local clock offset: 24.42 ms
Remote clock offset: 12.517 ms

Below is generated by plot.py at 2018-04-11 02:48:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 170.793 ms
Loss rate: 7.64%
-- Flow 1:
Average throughput: 50.90 Mbit/s
95th percentile per-packet one-way delay: 169.436 ms
Loss rate: 7.49%
-- Flow 2:
Average throughput: 37.89 Mbit/s
95th percentile per-packet one-way delay: 174.589 ms
Loss rate: 8.33%
-- Flow 3:
Average throughput: 8.88 Mbit/s
95th percentile per-packet one-way delay: 175.951 ms
Loss rate: 4.17%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 22:19:21

End at: 2018-04-10 22:19:51

Local clock offset: 1.824 ms

Remote clock offset: 0.633 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 158.698 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 159.652 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 156.602 ms

Loss rate: 0.56%

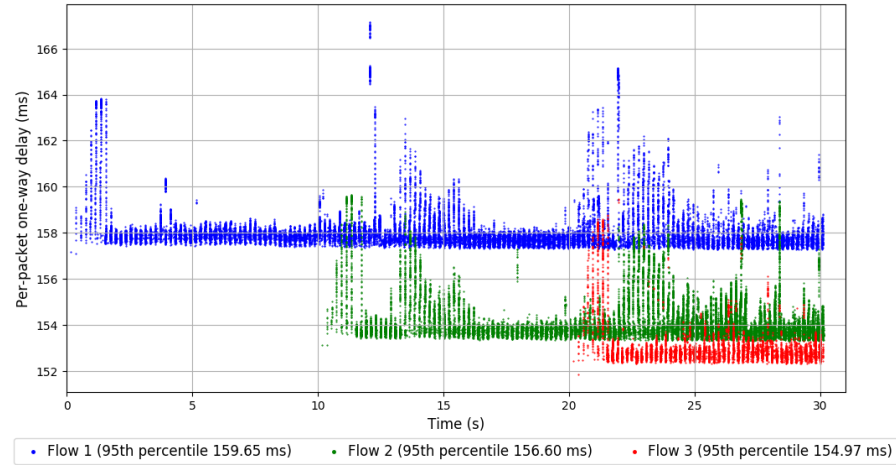
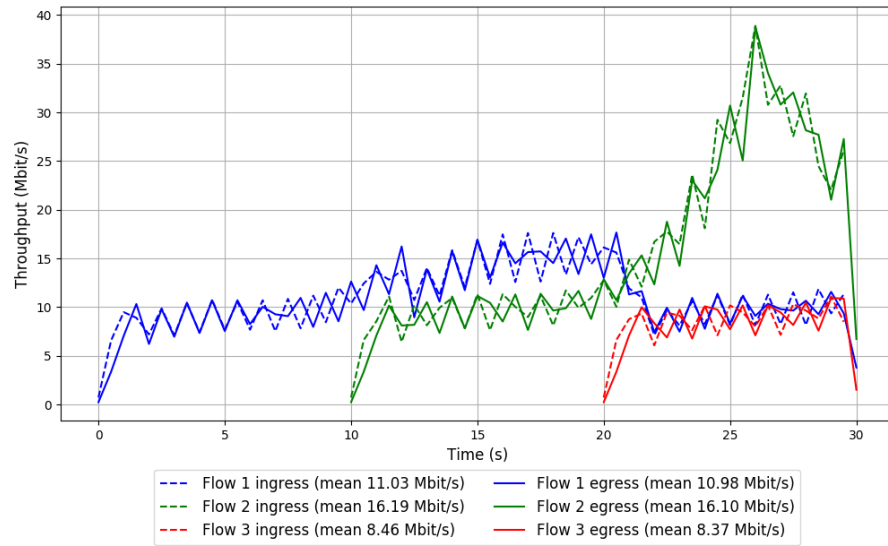
-- Flow 3:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 154.966 ms

Loss rate: 1.11%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 22:43:55

End at: 2018-04-10 22:44:25

Local clock offset: 1.253 ms

Remote clock offset: 2.843 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.70 Mbit/s

95th percentile per-packet one-way delay: 154.987 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 155.493 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 153.965 ms

Loss rate: 0.64%

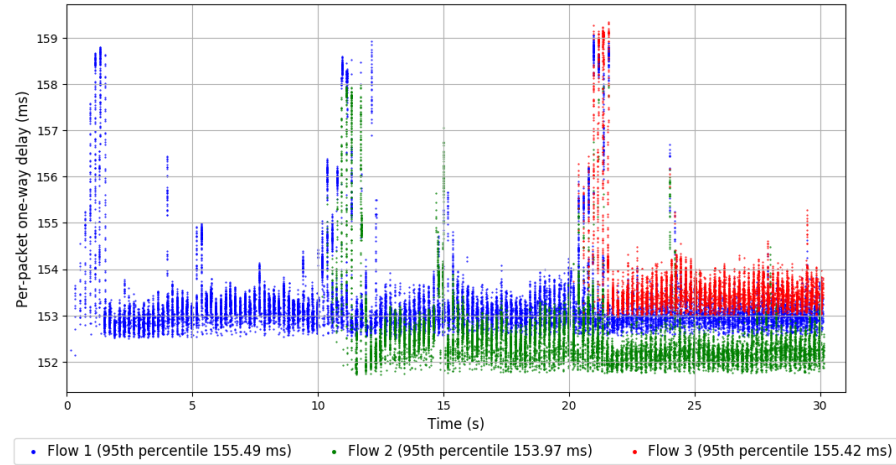
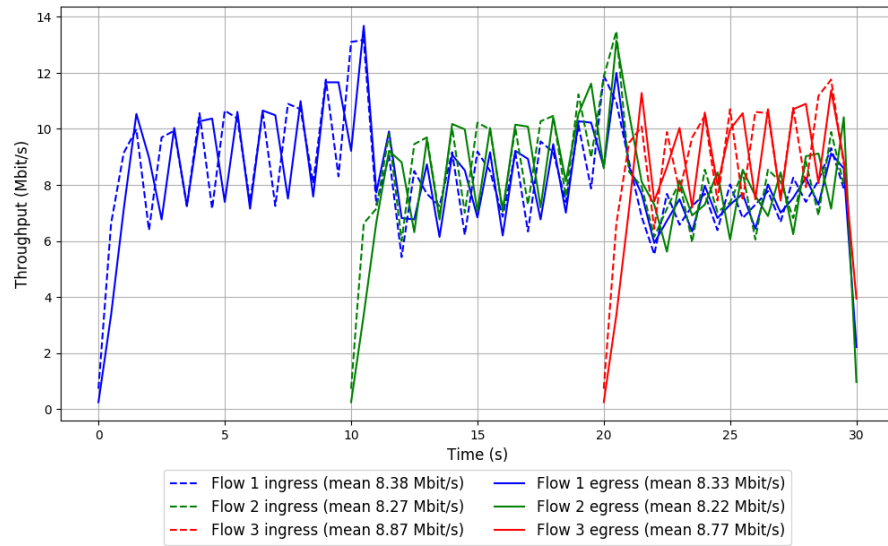
-- Flow 3:

Average throughput: 8.77 Mbit/s

95th percentile per-packet one-way delay: 155.420 ms

Loss rate: 1.09%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 23:08:20

End at: 2018-04-10 23:08:50

Local clock offset: 1.916 ms

Remote clock offset: 2.781 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 155.563 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 18.94 Mbit/s

95th percentile per-packet one-way delay: 155.533 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 155.601 ms

Loss rate: 0.45%

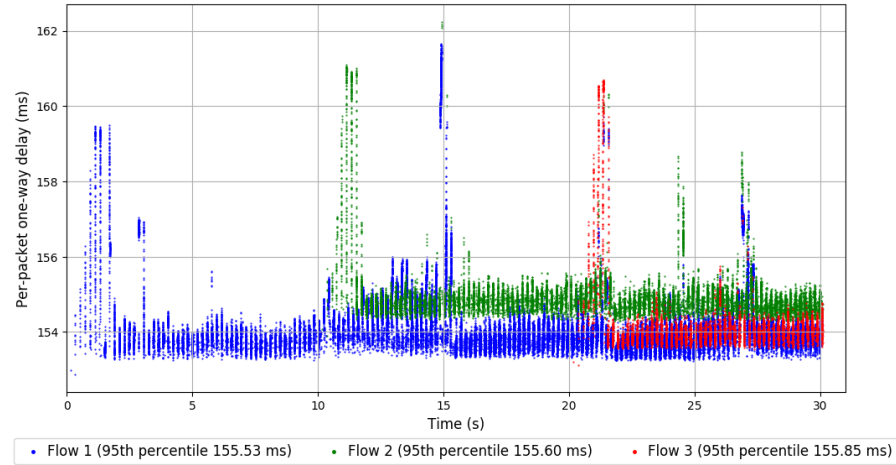
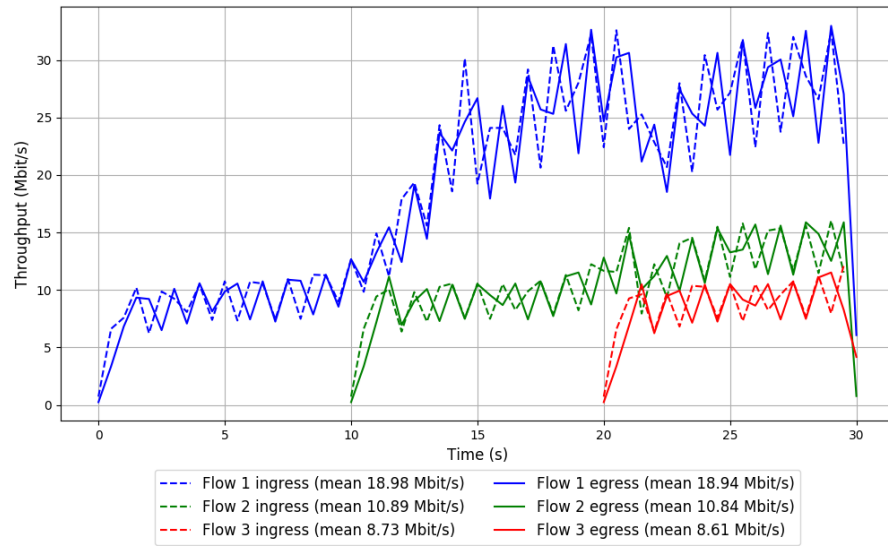
-- Flow 3:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 155.853 ms

Loss rate: 1.33%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 23:32:52

End at: 2018-04-10 23:33:22

Local clock offset: 1.867 ms

Remote clock offset: 2.39 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 157.433 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 17.55 Mbit/s

95th percentile per-packet one-way delay: 156.713 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 155.064 ms

Loss rate: 0.74%

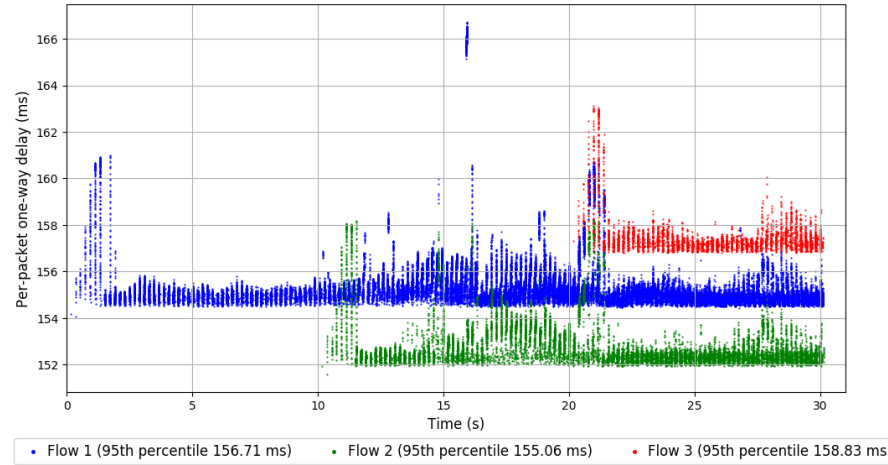
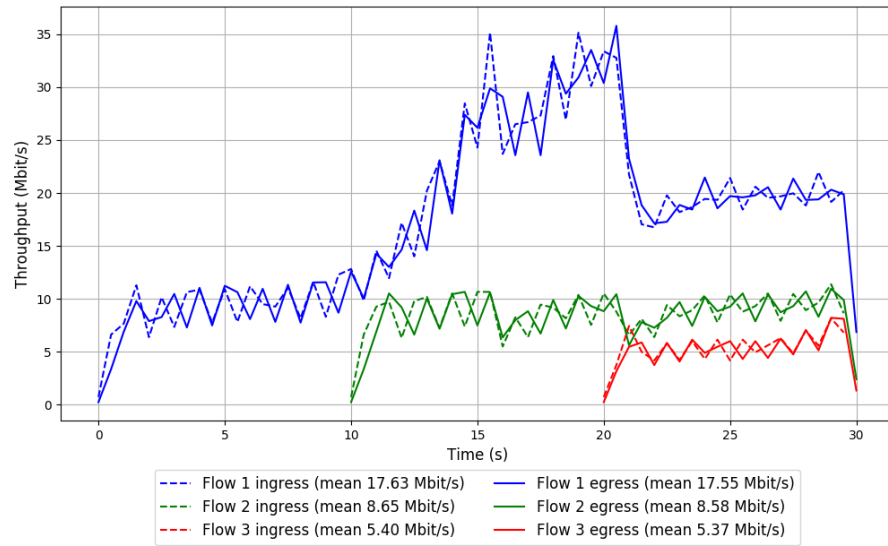
-- Flow 3:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 158.834 ms

Loss rate: 0.58%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 23:57:15

End at: 2018-04-10 23:57:45

Local clock offset: 2.031 ms

Remote clock offset: 6.473 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 155.118 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 153.025 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 155.780 ms

Loss rate: 0.47%

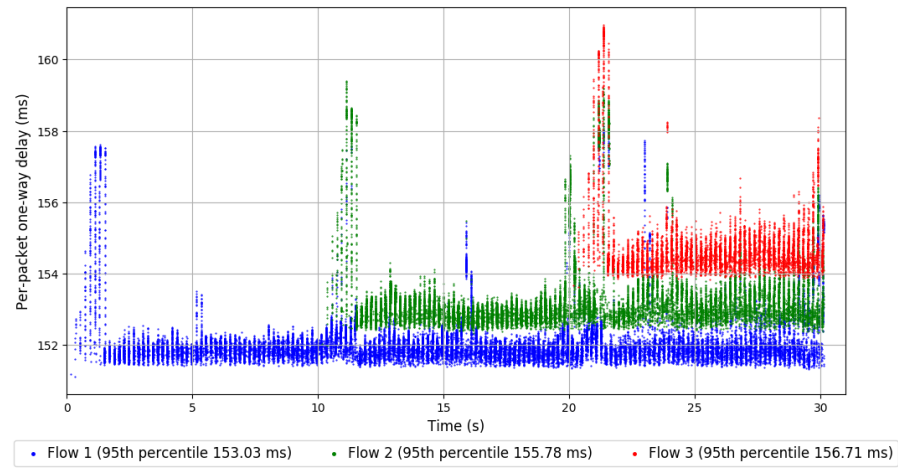
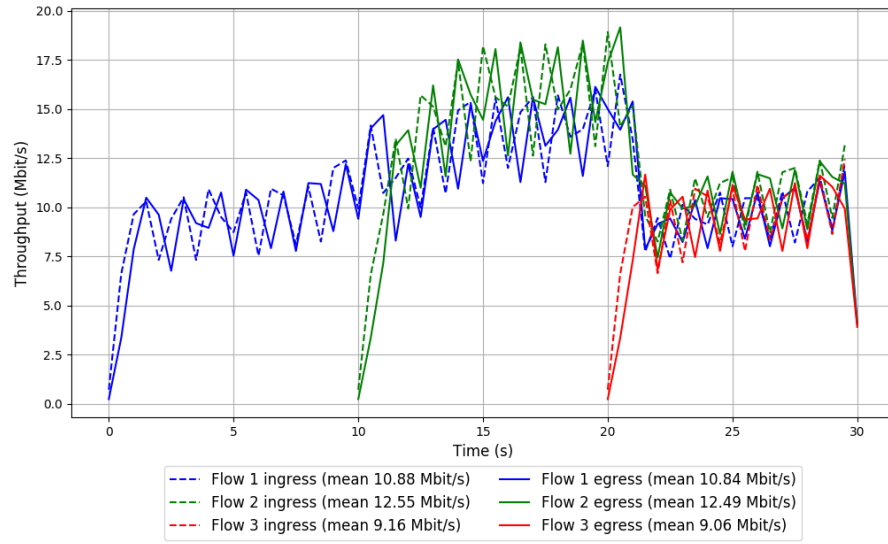
-- Flow 3:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 156.710 ms

Loss rate: 1.17%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-11 00:21:48

End at: 2018-04-11 00:22:18

Local clock offset: 2.099 ms

Remote clock offset: 8.315 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 157.617 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 157.824 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 156.485 ms

Loss rate: 0.55%

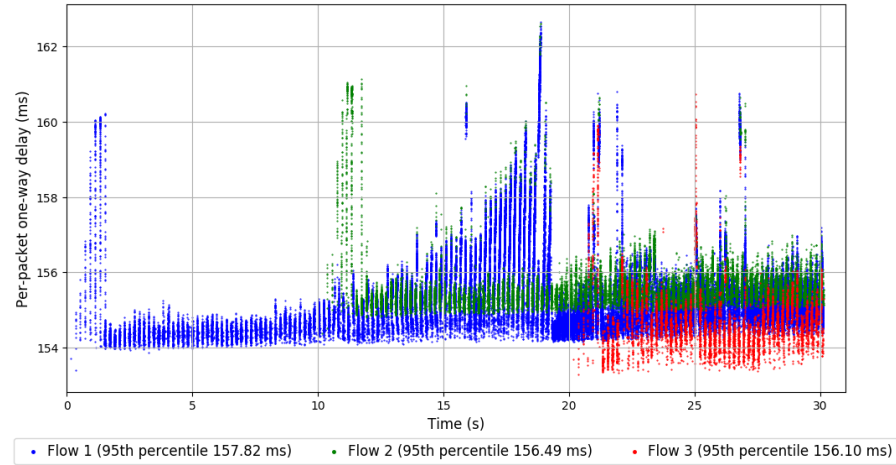
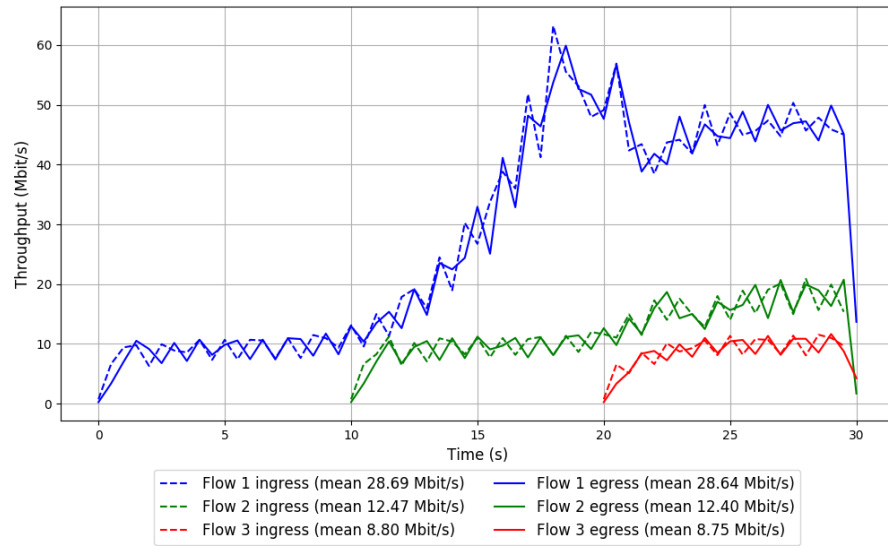
-- Flow 3:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 156.098 ms

Loss rate: 0.49%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-11 00:46:17

End at: 2018-04-11 00:46:47

Local clock offset: 33.55 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 156.795 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 156.826 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 156.041 ms

Loss rate: 0.63%

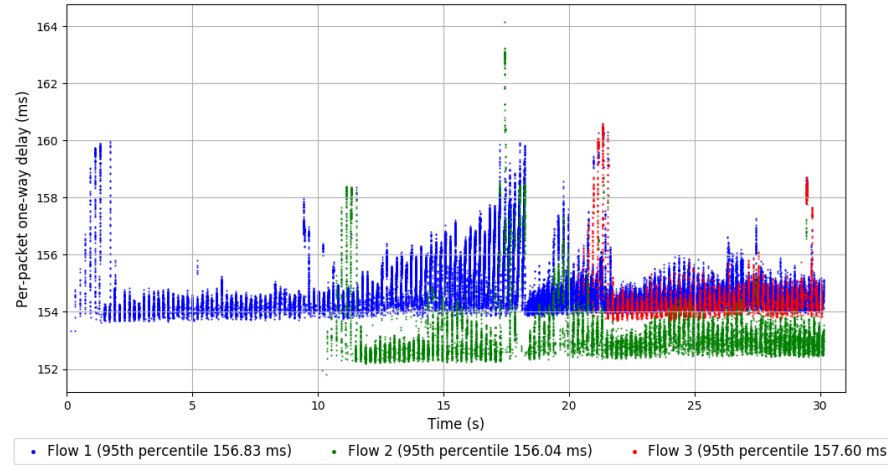
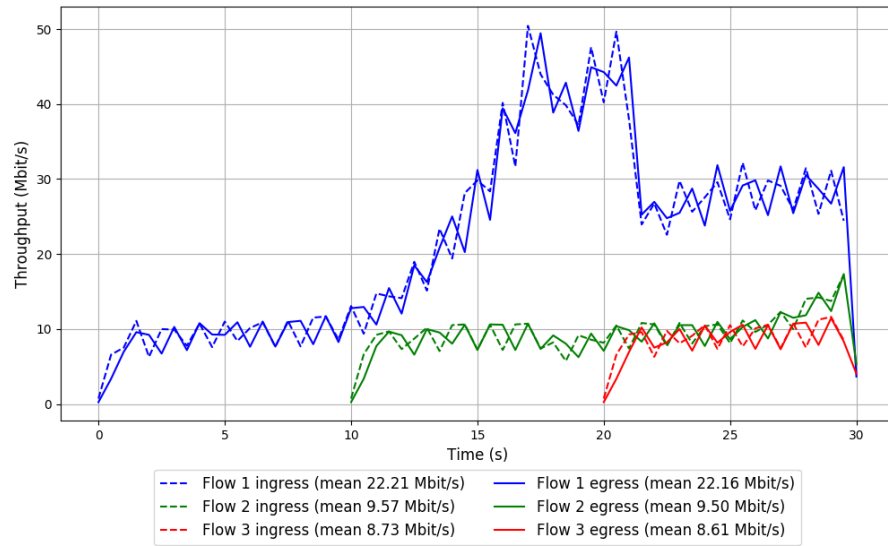
-- Flow 3:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 157.604 ms

Loss rate: 1.39%

Run 7: Report of TCP Cubic — Data Link

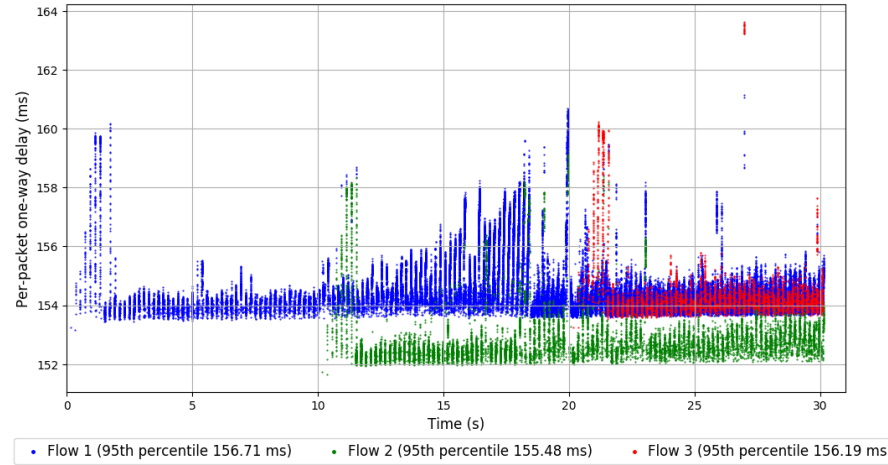
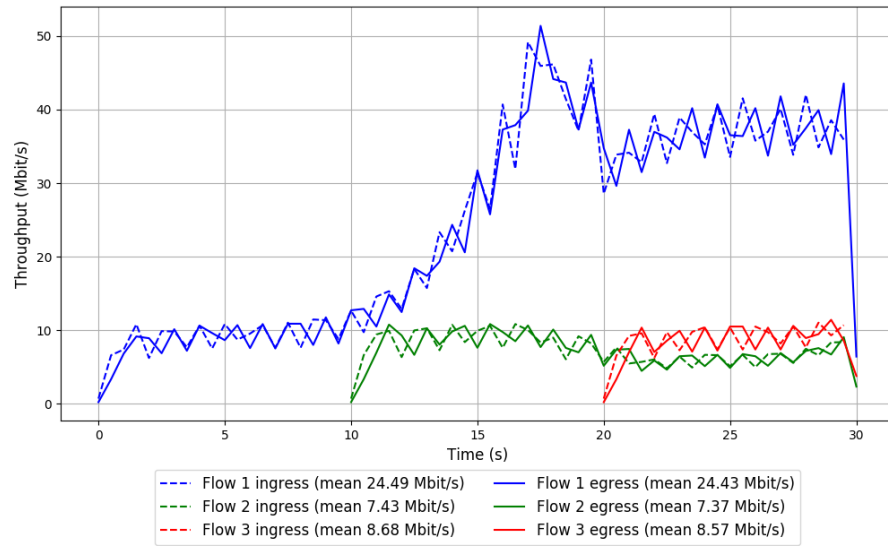


Run 8: Statistics of TCP Cubic

Start at: 2018-04-11 01:11:01
End at: 2018-04-11 01:11:31
Local clock offset: 47.297 ms
Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-04-11 02:48:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 156.631 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 156.712 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 155.483 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 156.192 ms
Loss rate: 1.25%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-11 01:35:29

End at: 2018-04-11 01:35:59

Local clock offset: 58.709 ms

Remote clock offset: 7.897 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 154.694 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 16.91 Mbit/s

95th percentile per-packet one-way delay: 154.510 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 152.241 ms

Loss rate: 1.54%

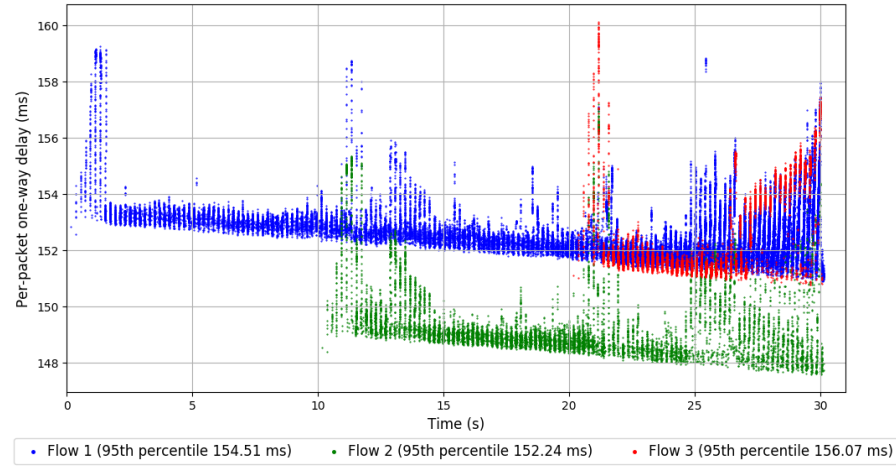
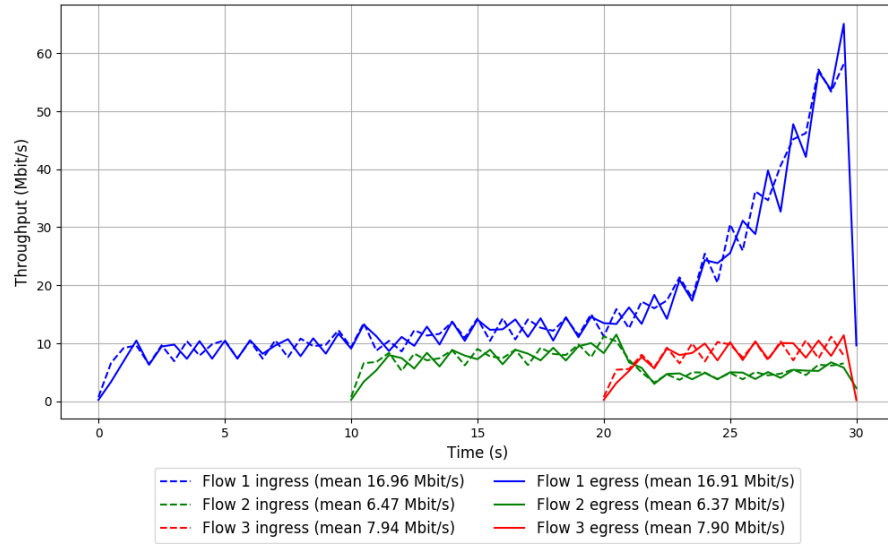
-- Flow 3:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 156.068 ms

Loss rate: 0.44%

Run 9: Report of TCP Cubic — Data Link

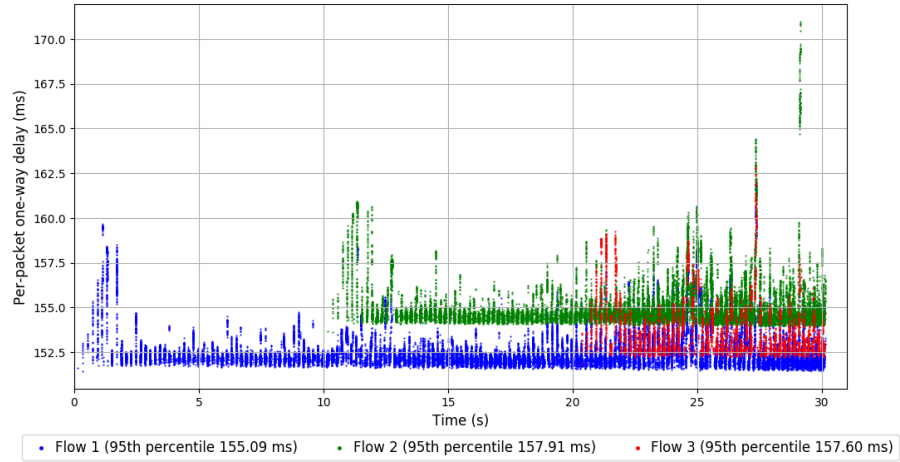
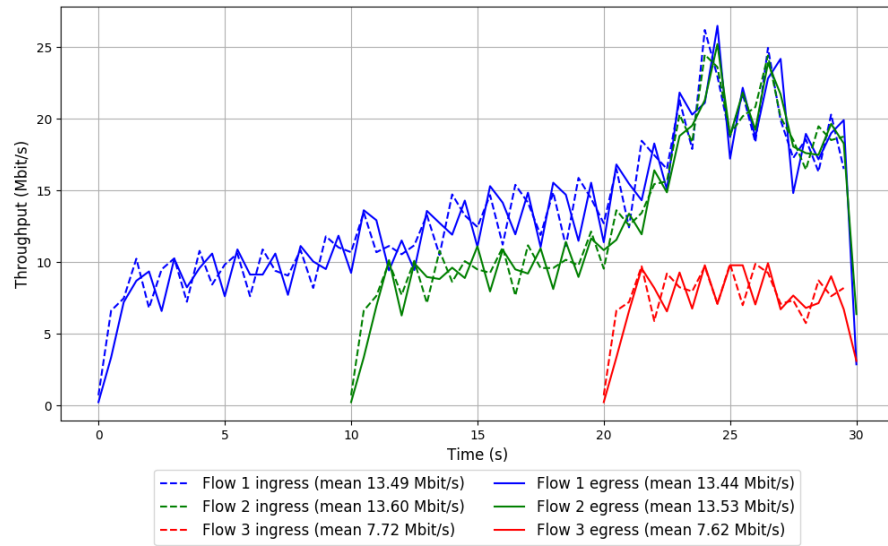


Run 10: Statistics of TCP Cubic

Start at: 2018-04-11 02:00:02
End at: 2018-04-11 02:00:32
Local clock offset: 25.792 ms
Remote clock offset: 16.712 ms

Below is generated by plot.py at 2018-04-11 02:48:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 156.770 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 13.44 Mbit/s
95th percentile per-packet one-way delay: 155.085 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 157.912 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 157.599 ms
Loss rate: 1.27%

Run 10: Report of TCP Cubic — Data Link

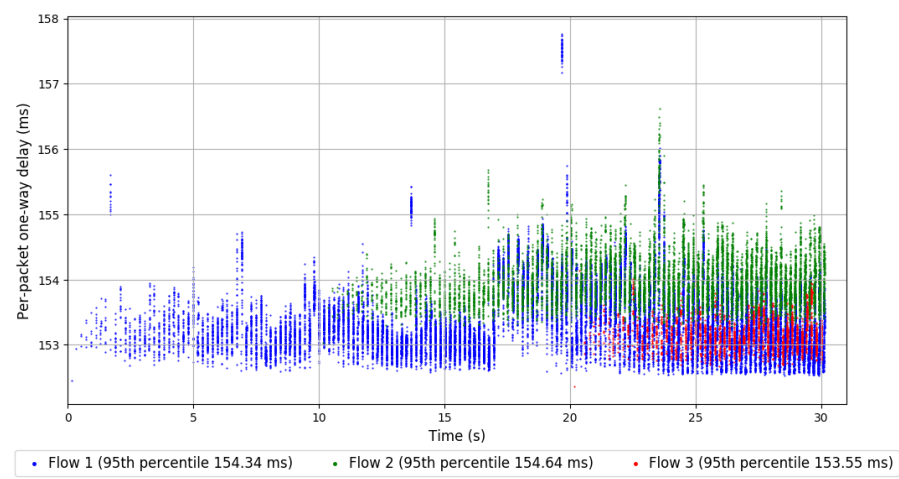
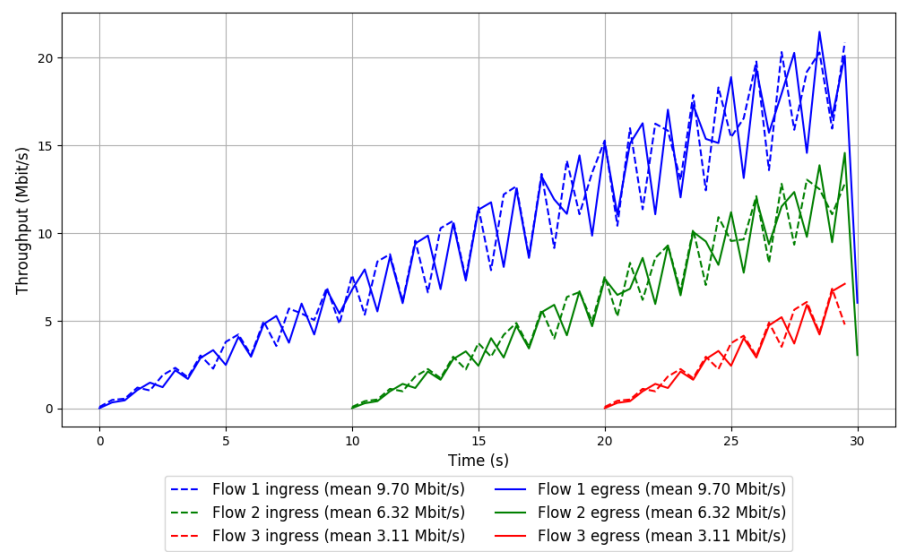


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 22:34:31
End at: 2018-04-10 22:35:01
Local clock offset: 1.51 ms
Remote clock offset: 3.186 ms

# Below is generated by plot.py at 2018-04-11 02:48:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 154.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.70 Mbit/s
95th percentile per-packet one-way delay: 154.335 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.32 Mbit/s
95th percentile per-packet one-way delay: 154.644 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 153.546 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

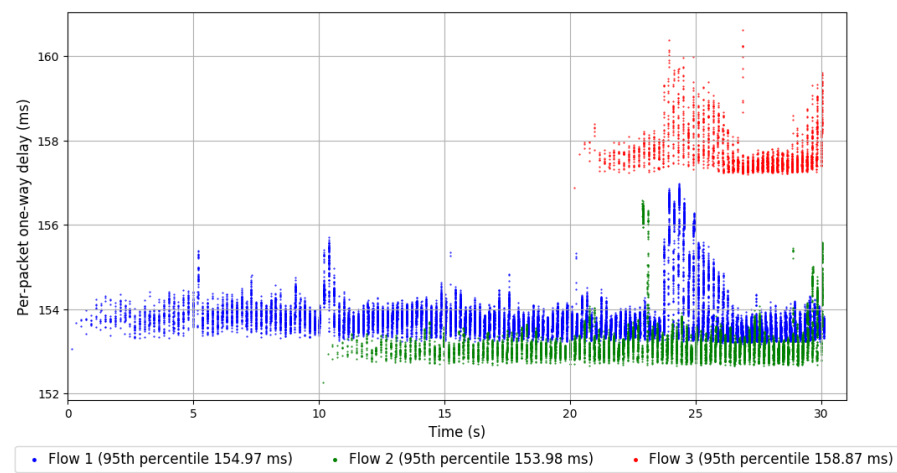
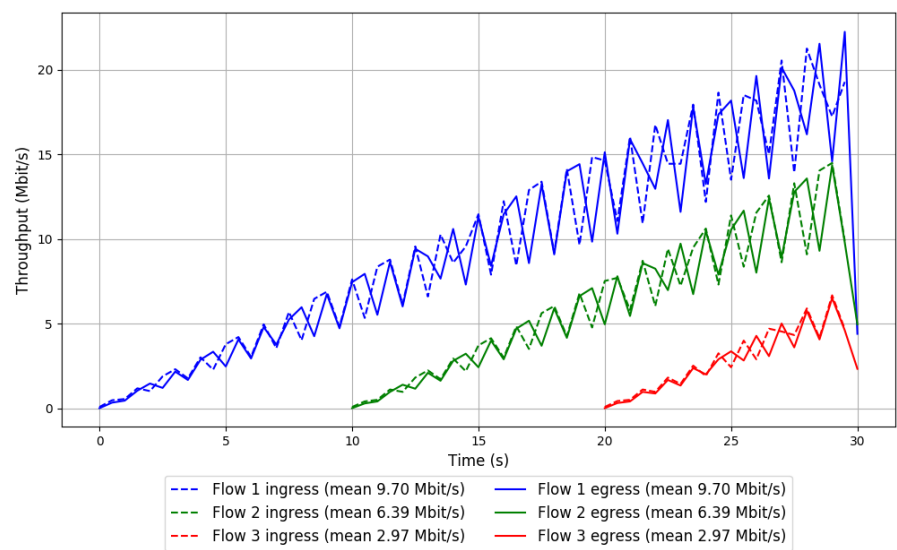


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 22:58:56
End at: 2018-04-10 22:59:26
Local clock offset: 1.822 ms
Remote clock offset: 2.495 ms

# Below is generated by plot.py at 2018-04-11 02:48:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 157.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.70 Mbit/s
95th percentile per-packet one-way delay: 154.975 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 153.982 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 158.867 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 23:23:28

End at: 2018-04-10 23:23:59

Local clock offset: 2.028 ms

Remote clock offset: 2.323 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.03 Mbit/s

95th percentile per-packet one-way delay: 155.506 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 153.367 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 155.246 ms

Loss rate: 0.00%

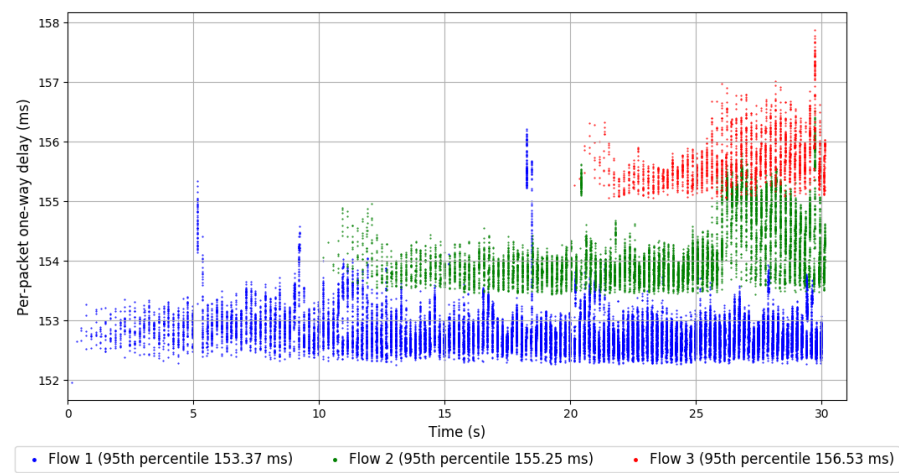
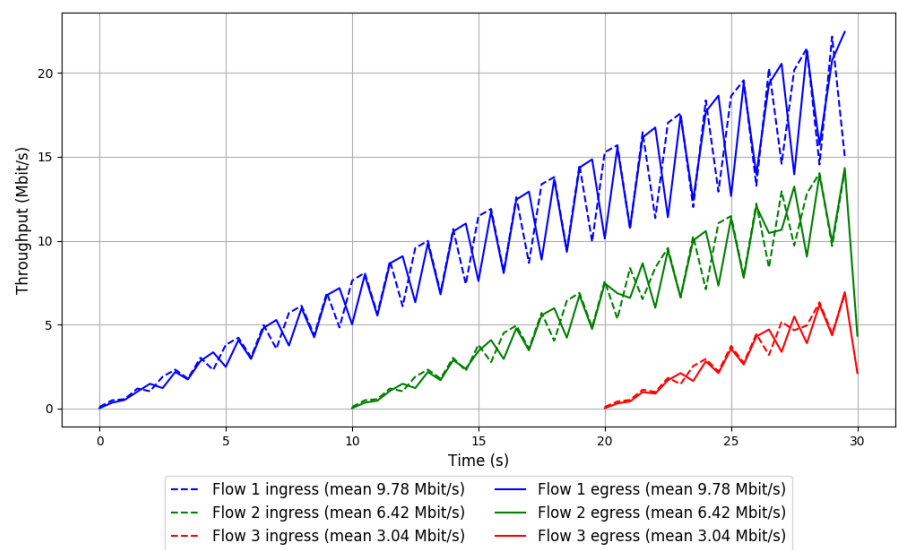
-- Flow 3:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 156.525 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 23:47:52

End at: 2018-04-10 23:48:22

Local clock offset: 2.086 ms

Remote clock offset: 3.453 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 155.436 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.64 Mbit/s

95th percentile per-packet one-way delay: 154.838 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 155.855 ms

Loss rate: 0.00%

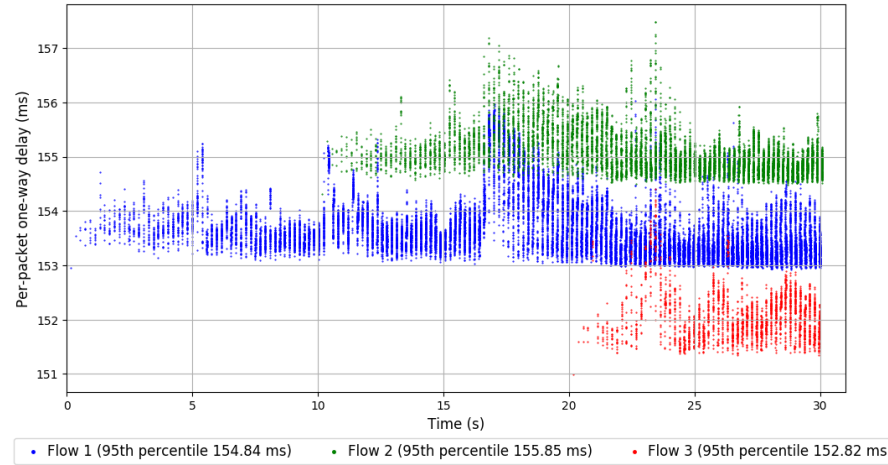
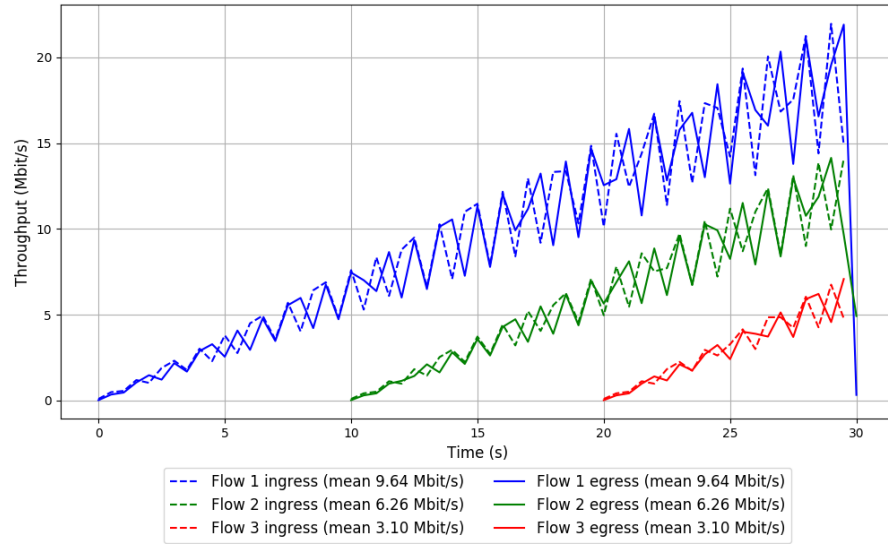
-- Flow 3:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 152.820 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-11 00:12:26

End at: 2018-04-11 00:12:56

Local clock offset: 2.157 ms

Remote clock offset: 8.961 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 154.986 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 155.104 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 153.840 ms

Loss rate: 0.00%

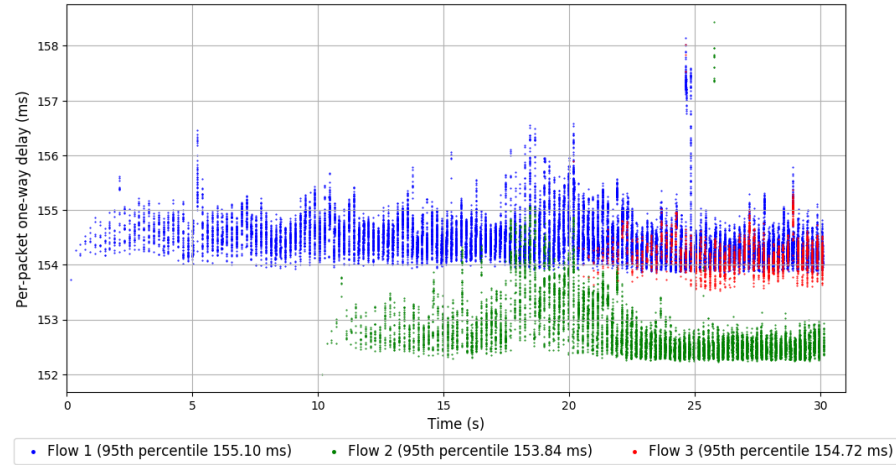
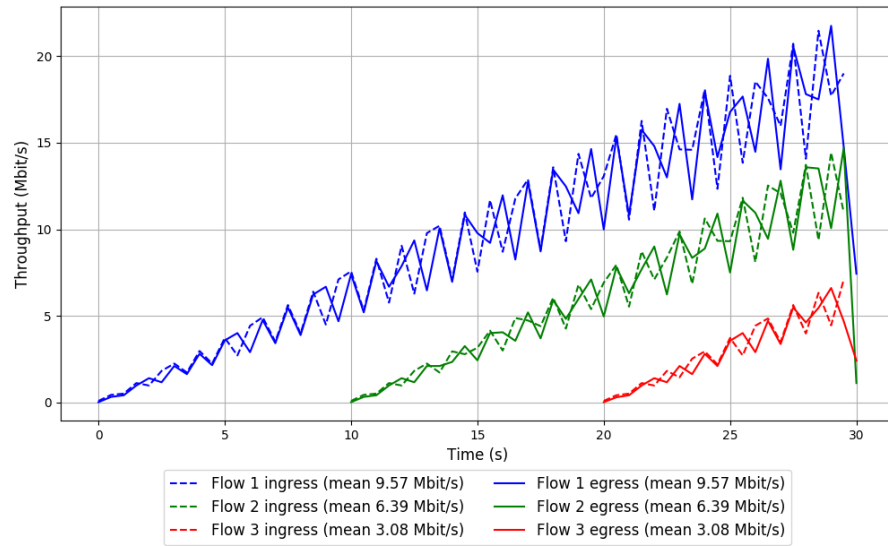
-- Flow 3:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 154.725 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-11 00:36:54

End at: 2018-04-11 00:37:24

Local clock offset: 24.344 ms

Remote clock offset: 1.416 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 154.859 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.76 Mbit/s

95th percentile per-packet one-way delay: 154.841 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 154.904 ms

Loss rate: 0.00%

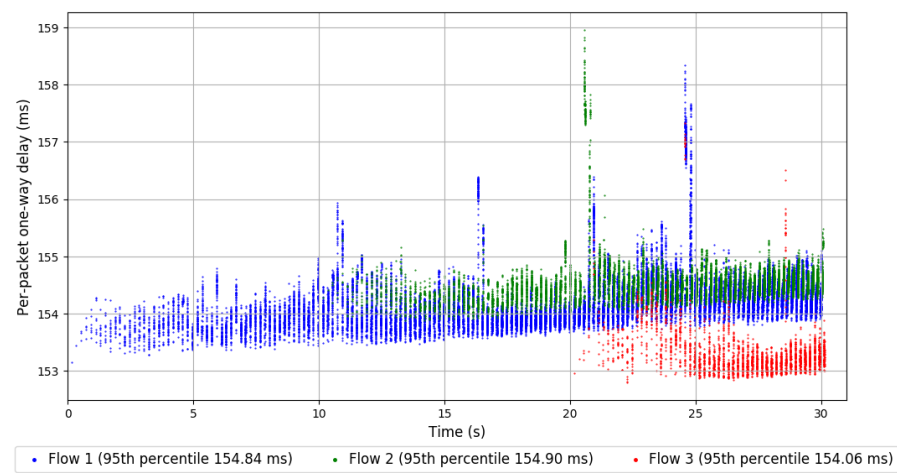
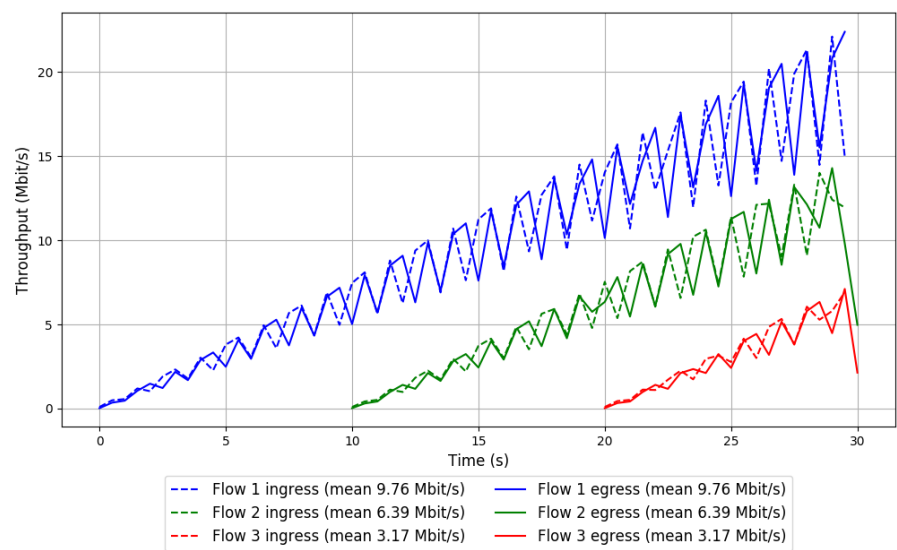
-- Flow 3:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 154.059 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

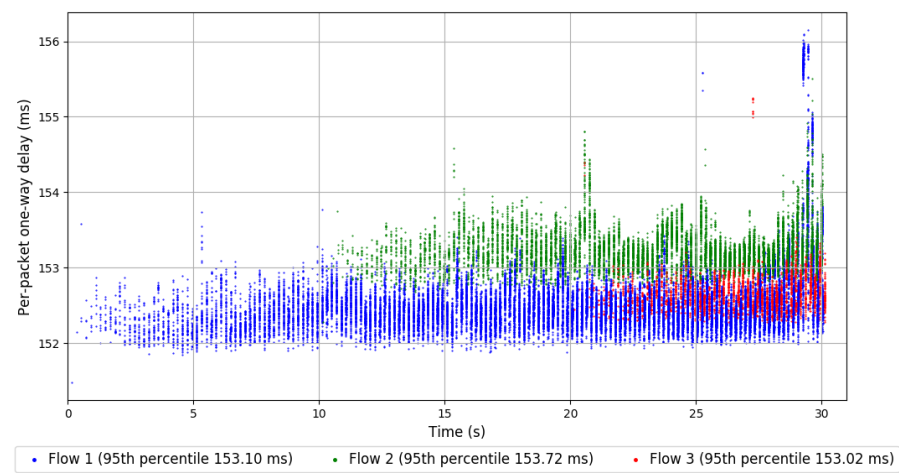
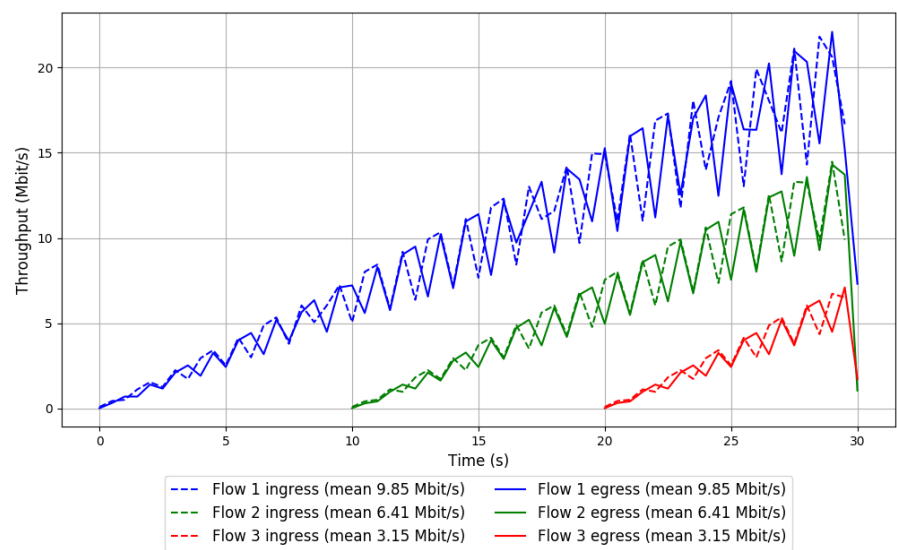


Run 7: Statistics of LEDBAT

Start at: 2018-04-11 01:01:37
End at: 2018-04-11 01:02:07
Local clock offset: 42.823 ms
Remote clock offset: 0.207 ms

Below is generated by plot.py at 2018-04-11 02:48:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 153.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 153.096 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 153.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 153.021 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-11 01:25:56

End at: 2018-04-11 01:26:26

Local clock offset: 54.311 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2018-04-11 02:48:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 155.788 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.61 Mbit/s

95th percentile per-packet one-way delay: 156.022 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 155.524 ms

Loss rate: 0.00%

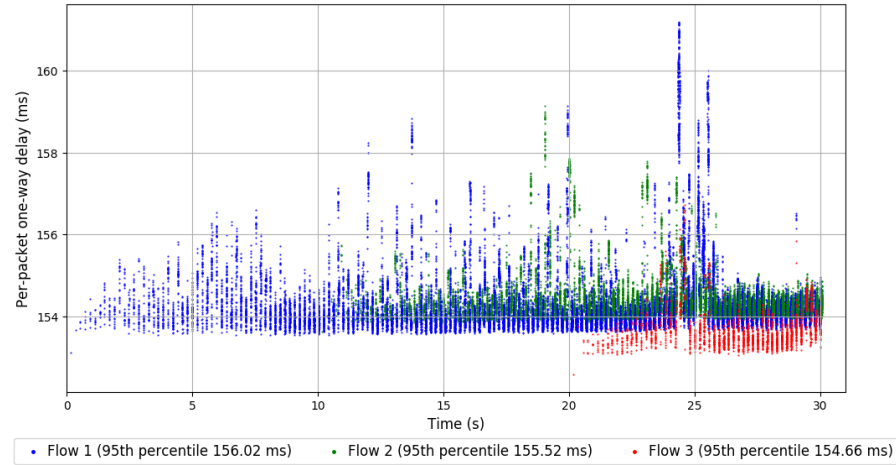
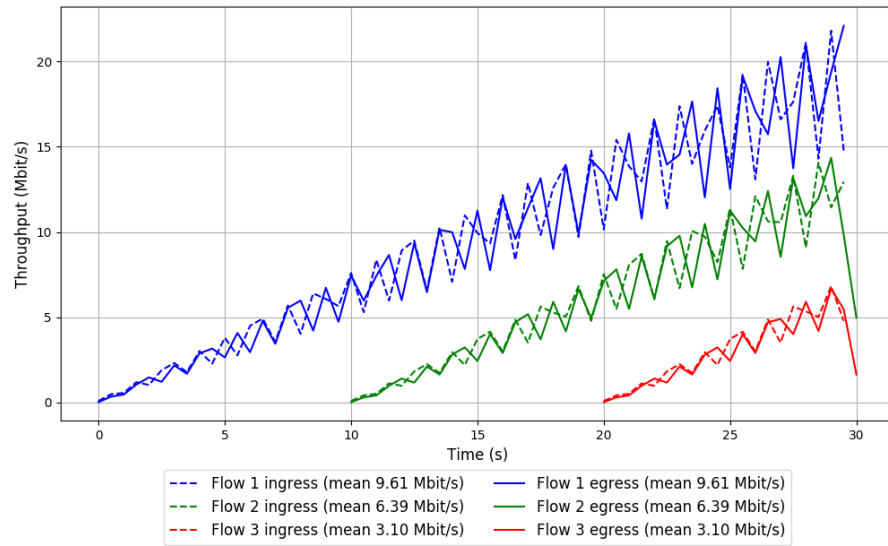
-- Flow 3:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 154.664 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

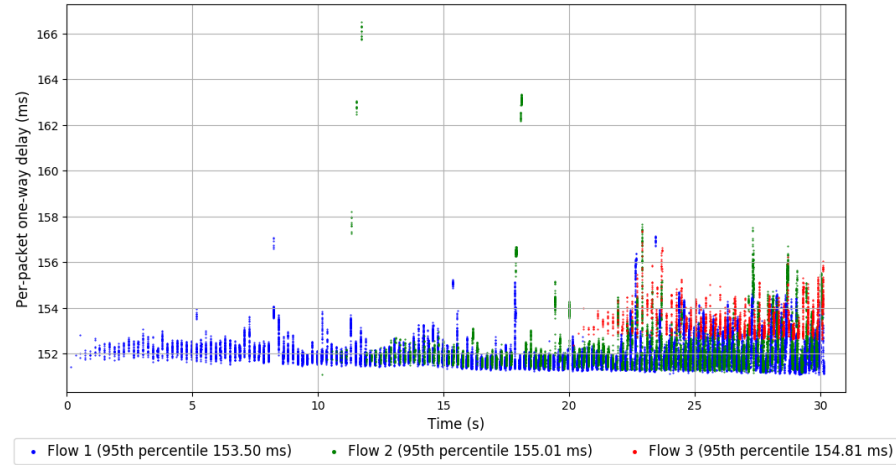
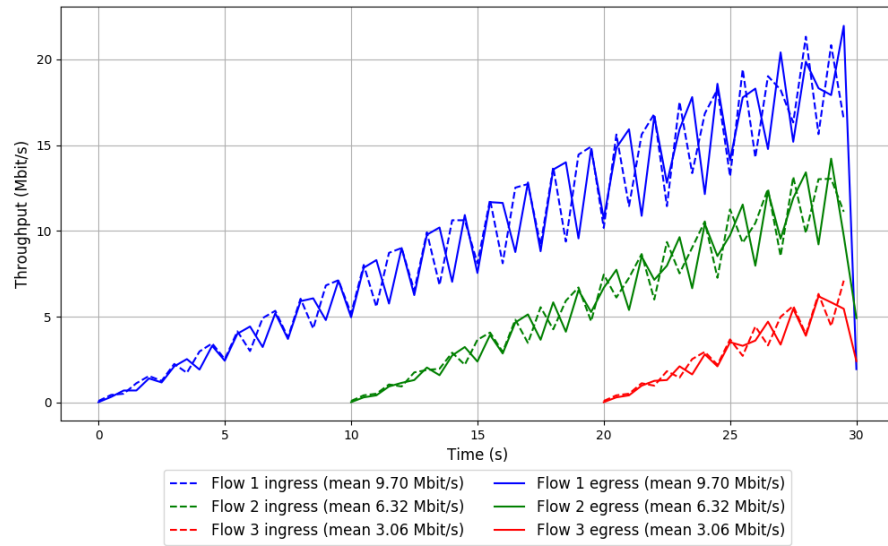


Run 9: Statistics of LEDBAT

Start at: 2018-04-11 01:50:39
End at: 2018-04-11 01:51:09
Local clock offset: 30.573 ms
Remote clock offset: 14.709 ms

Below is generated by plot.py at 2018-04-11 02:48:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.91 Mbit/s
95th percentile per-packet one-way delay: 154.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.70 Mbit/s
95th percentile per-packet one-way delay: 153.499 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.32 Mbit/s
95th percentile per-packet one-way delay: 155.007 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 154.815 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-11 02:14:57

End at: 2018-04-11 02:15:27

Local clock offset: 15.053 ms

Remote clock offset: 3.757 ms

Below is generated by plot.py at 2018-04-11 02:48:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.74 Mbit/s

95th percentile per-packet one-way delay: 155.759 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 155.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 155.270 ms

Loss rate: 0.00%

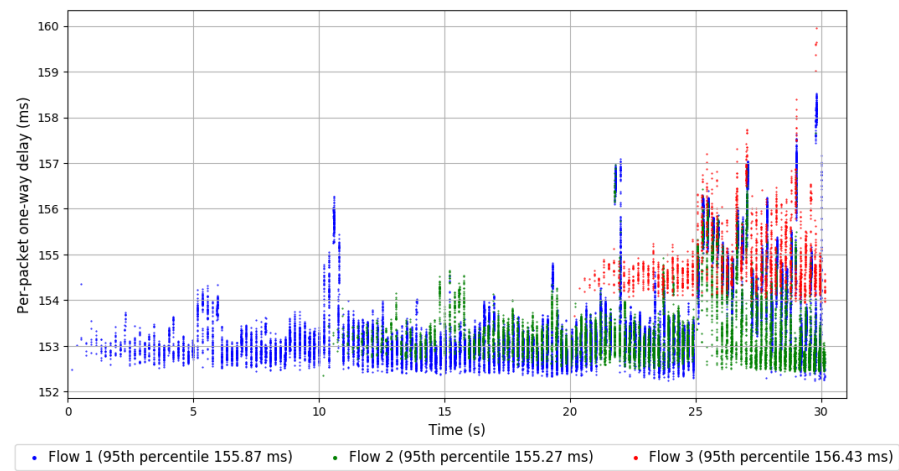
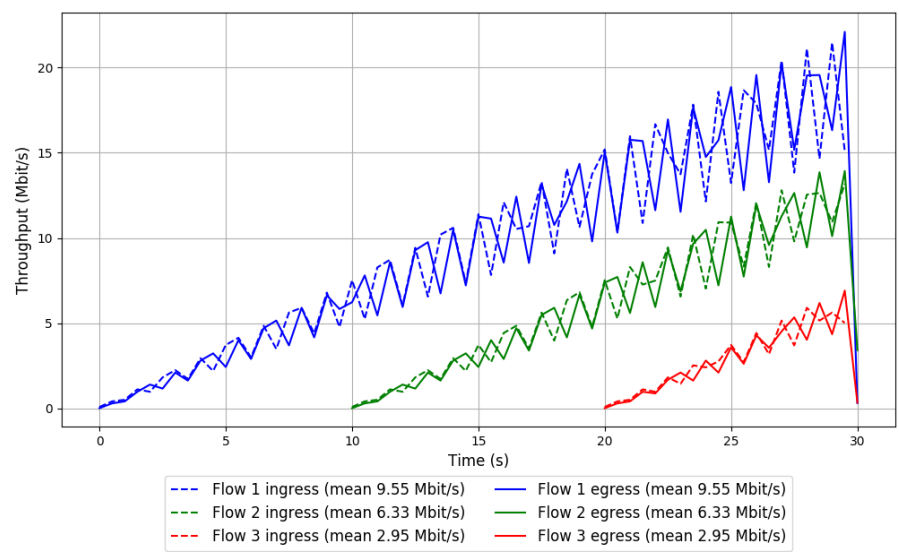
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 156.429 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-04-10 22:20:39

End at: 2018-04-10 22:21:09

Local clock offset: 1.547 ms

Remote clock offset: 0.957 ms

Below is generated by plot.py at 2018-04-11 02:49:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 166.071 ms

Loss rate: 3.37%

-- Flow 1:

Average throughput: 73.72 Mbit/s

95th percentile per-packet one-way delay: 164.974 ms

Loss rate: 3.24%

-- Flow 2:

Average throughput: 14.86 Mbit/s

95th percentile per-packet one-way delay: 169.191 ms

Loss rate: 4.39%

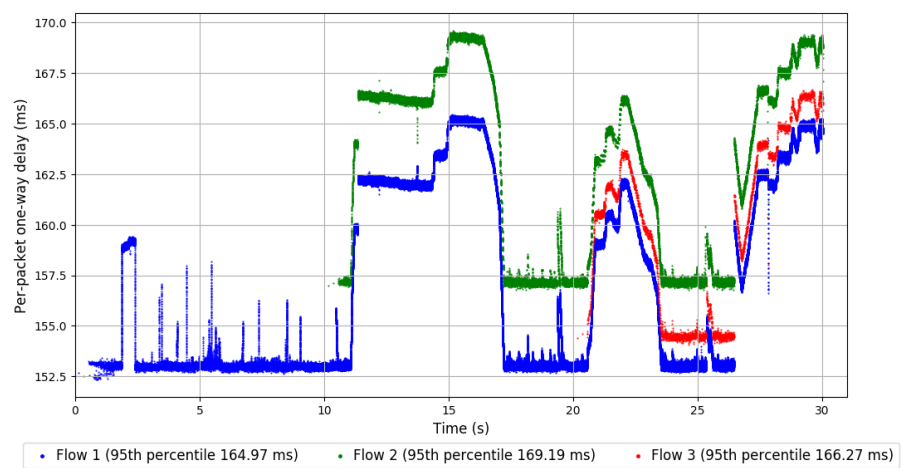
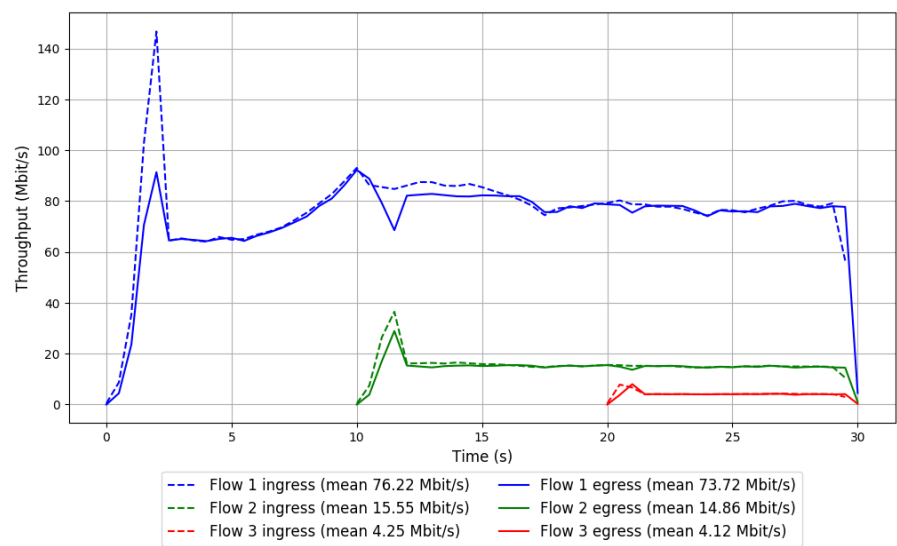
-- Flow 3:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 166.272 ms

Loss rate: 2.92%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 22:45:13

End at: 2018-04-10 22:45:43

Local clock offset: 1.452 ms

Remote clock offset: 2.76 ms

Below is generated by plot.py at 2018-04-11 02:49:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 162.188 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 162.186 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 161.965 ms

Loss rate: 2.53%

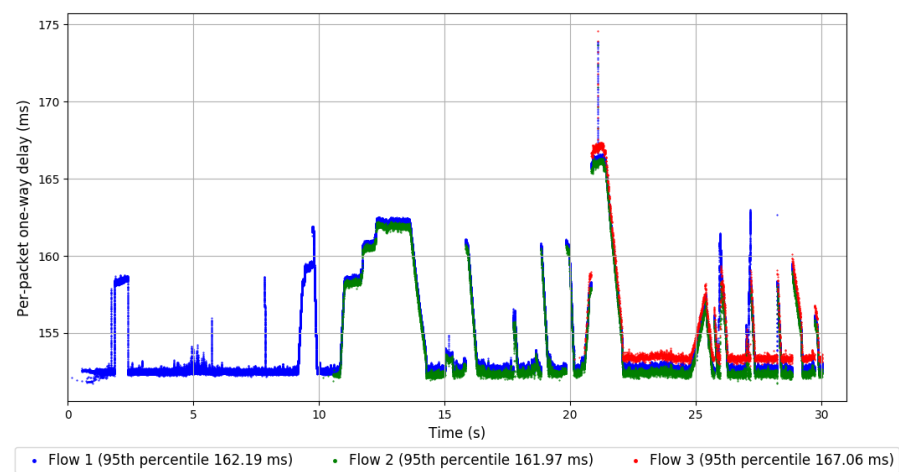
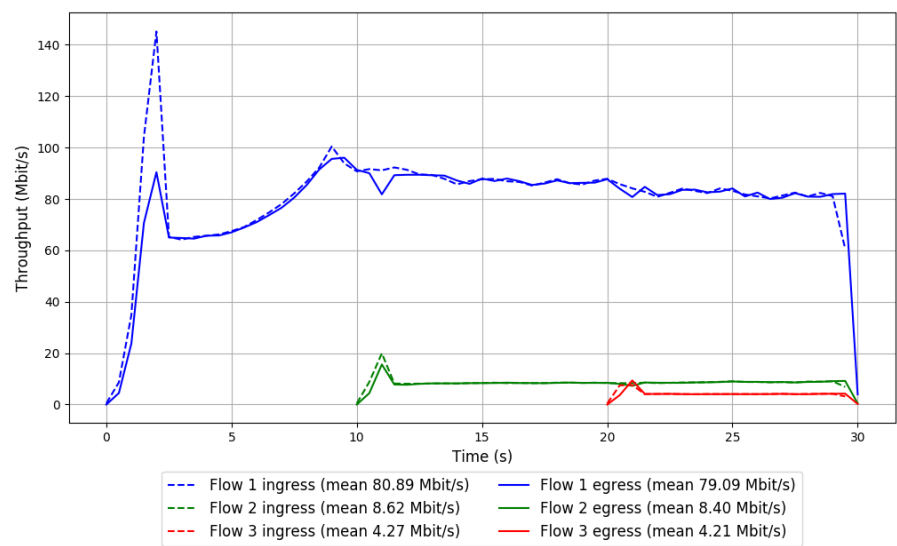
-- Flow 3:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 167.064 ms

Loss rate: 1.26%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 23:09:39

End at: 2018-04-10 23:10:09

Local clock offset: 1.88 ms

Remote clock offset: 2.801 ms

Below is generated by plot.py at 2018-04-11 02:49:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.55 Mbit/s

95th percentile per-packet one-way delay: 162.297 ms

Loss rate: 2.12%

-- Flow 1:

Average throughput: 81.49 Mbit/s

95th percentile per-packet one-way delay: 162.226 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 162.674 ms

Loss rate: 3.25%

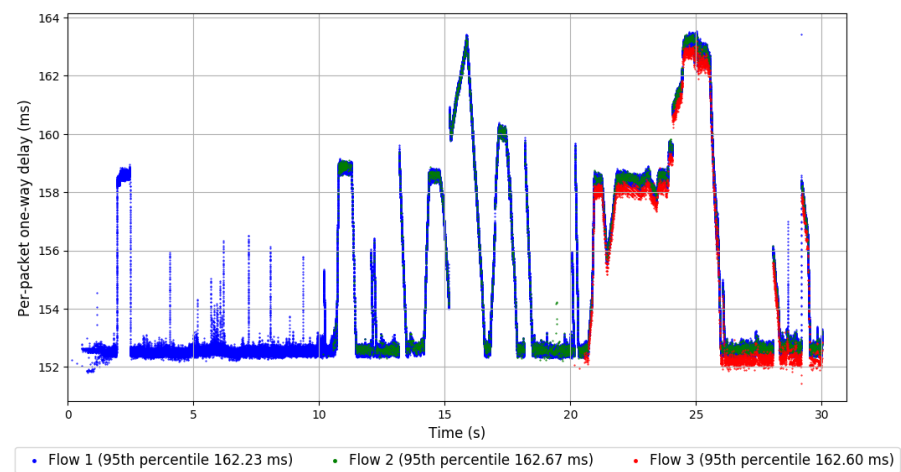
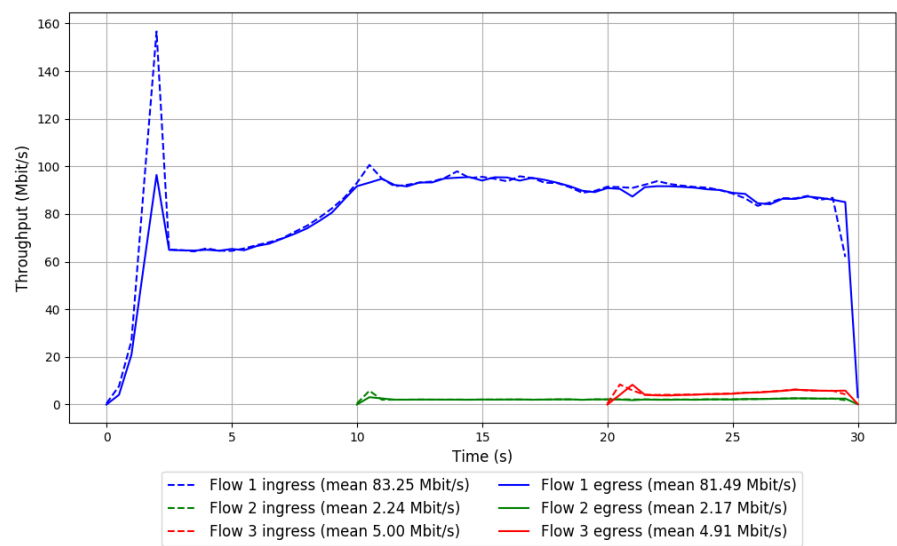
-- Flow 3:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 162.599 ms

Loss rate: 1.94%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 23:34:10

End at: 2018-04-10 23:34:41

Local clock offset: 1.948 ms

Remote clock offset: 2.33 ms

Below is generated by plot.py at 2018-04-11 02:49:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.41 Mbit/s

95th percentile per-packet one-way delay: 166.268 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 79.63 Mbit/s

95th percentile per-packet one-way delay: 166.065 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 8.12 Mbit/s

95th percentile per-packet one-way delay: 167.812 ms

Loss rate: 3.37%

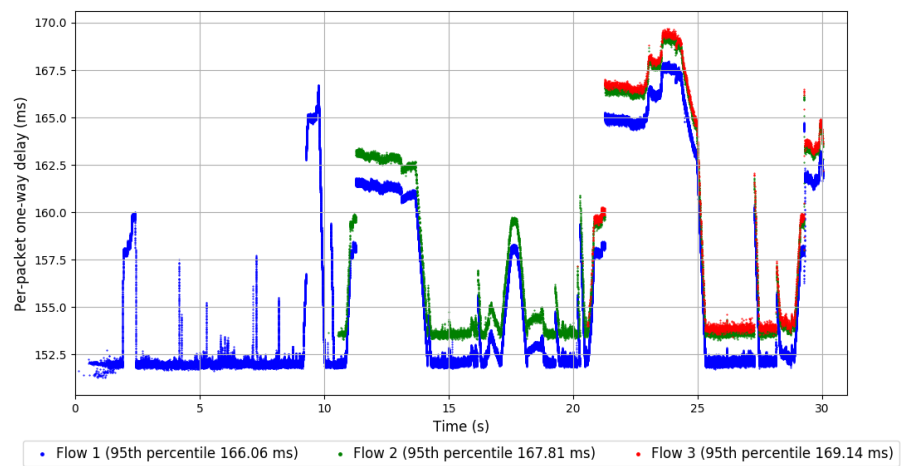
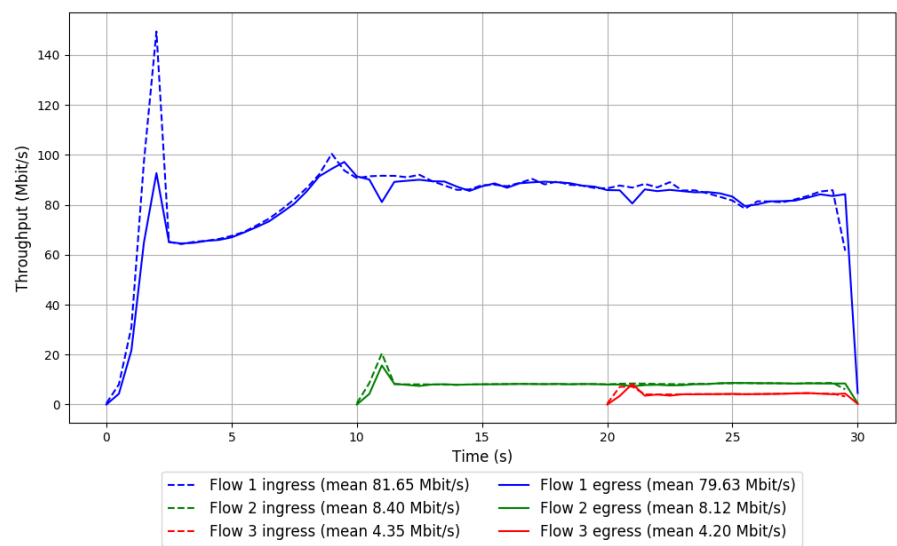
-- Flow 3:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 169.136 ms

Loss rate: 3.42%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 23:58:33

End at: 2018-04-10 23:59:03

Local clock offset: 1.988 ms

Remote clock offset: 6.918 ms

Below is generated by plot.py at 2018-04-11 02:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.65 Mbit/s

95th percentile per-packet one-way delay: 164.656 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 80.11 Mbit/s

95th percentile per-packet one-way delay: 164.562 ms

Loss rate: 3.07%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 166.686 ms

Loss rate: 6.10%

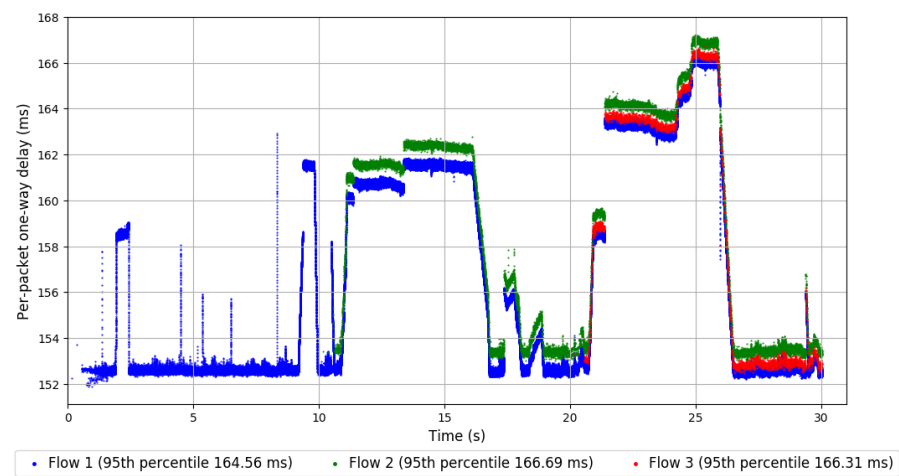
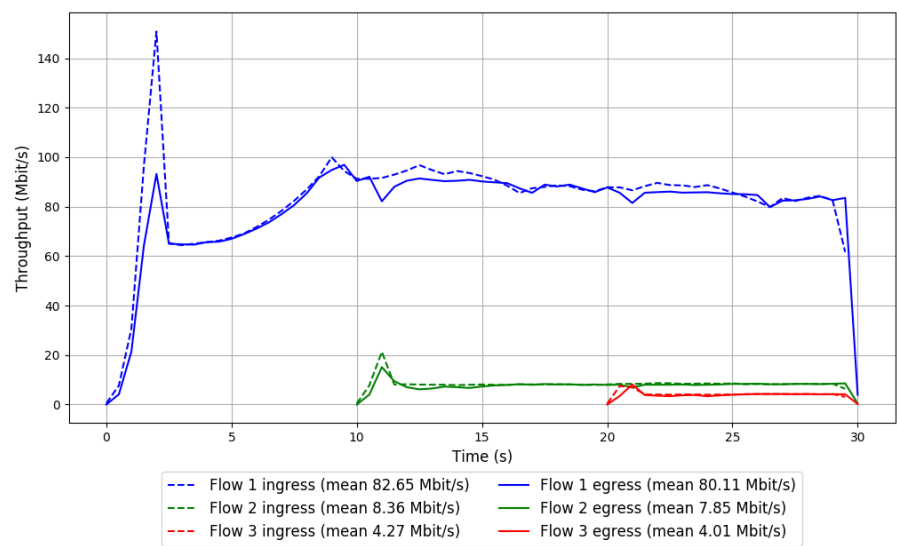
-- Flow 3:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 166.315 ms

Loss rate: 5.90%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-11 00:23:07

End at: 2018-04-11 00:23:37

Local clock offset: 2.125 ms

Remote clock offset: 7.096 ms

Below is generated by plot.py at 2018-04-11 02:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 169.498 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 79.28 Mbit/s

95th percentile per-packet one-way delay: 169.588 ms

Loss rate: 2.53%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 164.834 ms

Loss rate: 3.27%

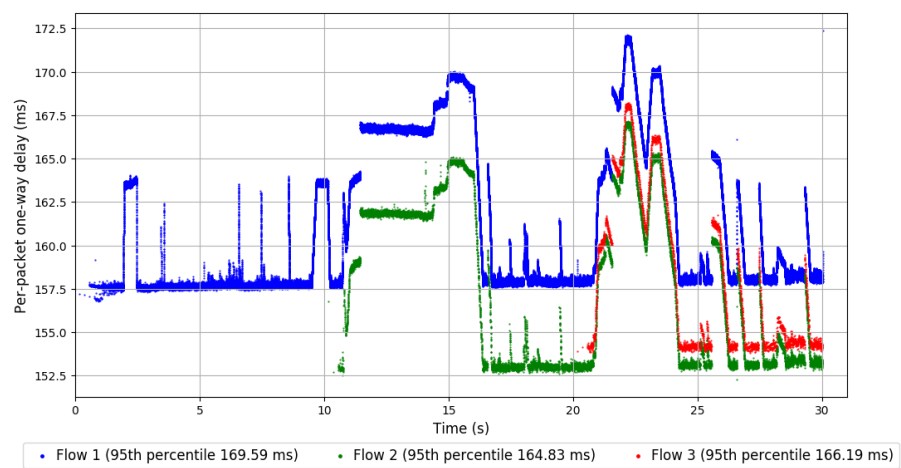
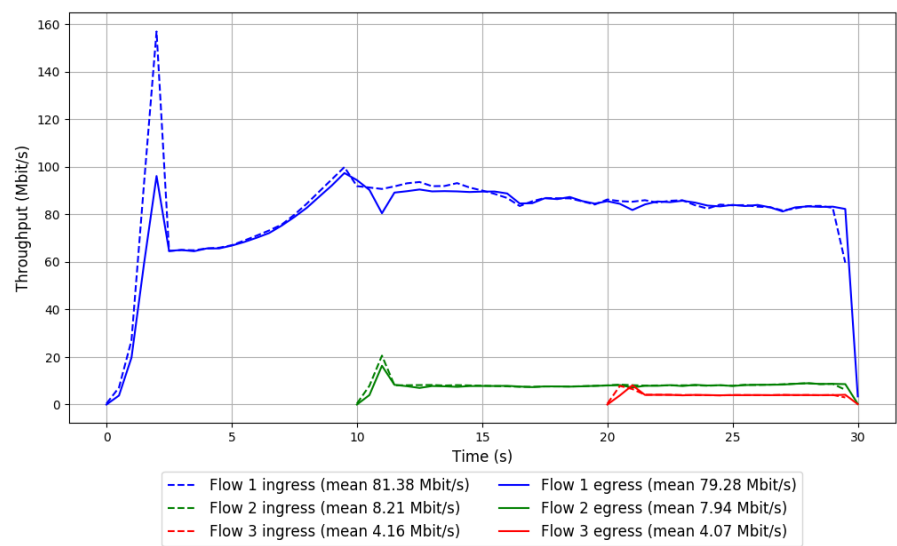
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 166.189 ms

Loss rate: 2.08%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-11 00:47:36

End at: 2018-04-11 00:48:06

Local clock offset: 34.636 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2018-04-11 02:49:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 166.029 ms

Loss rate: 2.99%

-- Flow 1:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 166.057 ms

Loss rate: 2.87%

-- Flow 2:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 165.634 ms

Loss rate: 4.17%

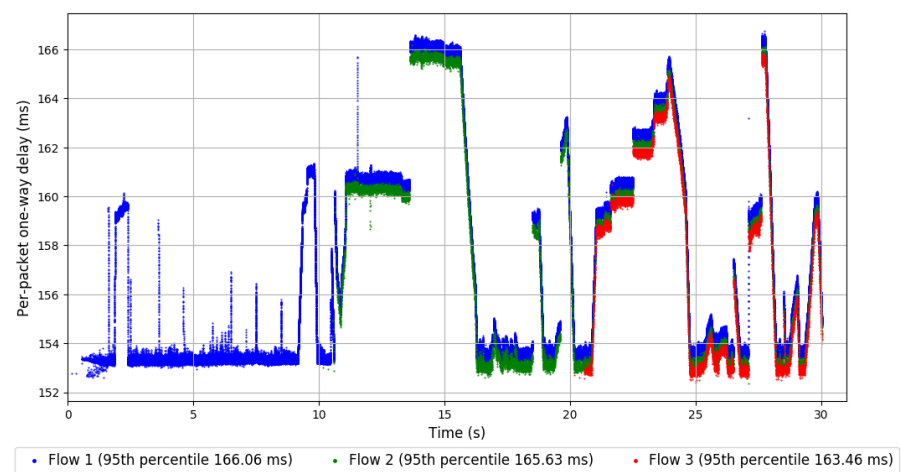
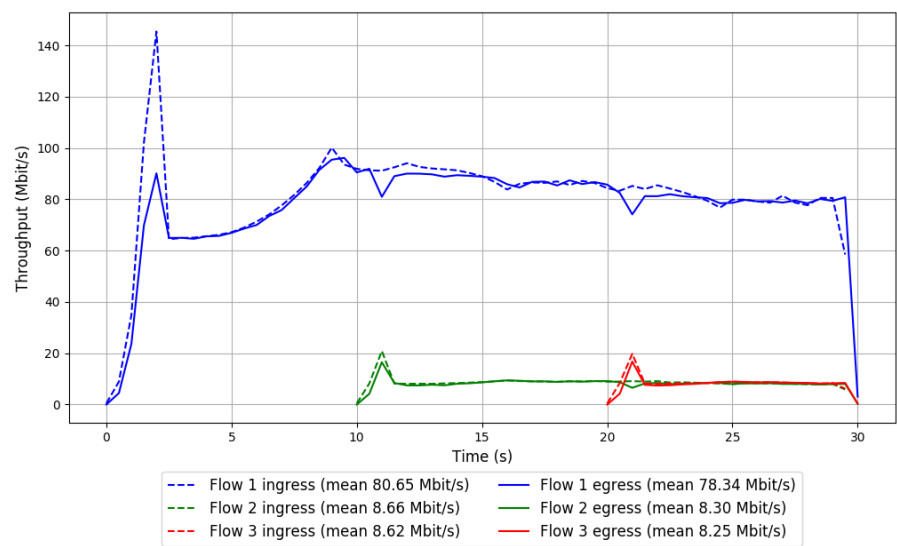
-- Flow 3:

Average throughput: 8.25 Mbit/s

95th percentile per-packet one-way delay: 163.456 ms

Loss rate: 4.29%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-11 01:12:20

End at: 2018-04-11 01:12:50

Local clock offset: 47.93 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-04-11 02:49:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 165.866 ms

Loss rate: 3.36%

-- Flow 1:

Average throughput: 77.44 Mbit/s

95th percentile per-packet one-way delay: 165.691 ms

Loss rate: 3.24%

-- Flow 2:

Average throughput: 9.60 Mbit/s

95th percentile per-packet one-way delay: 169.109 ms

Loss rate: 4.64%

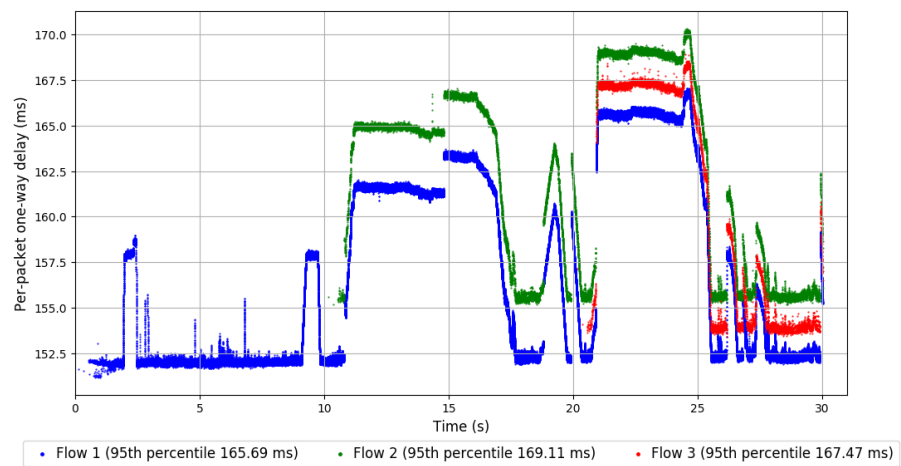
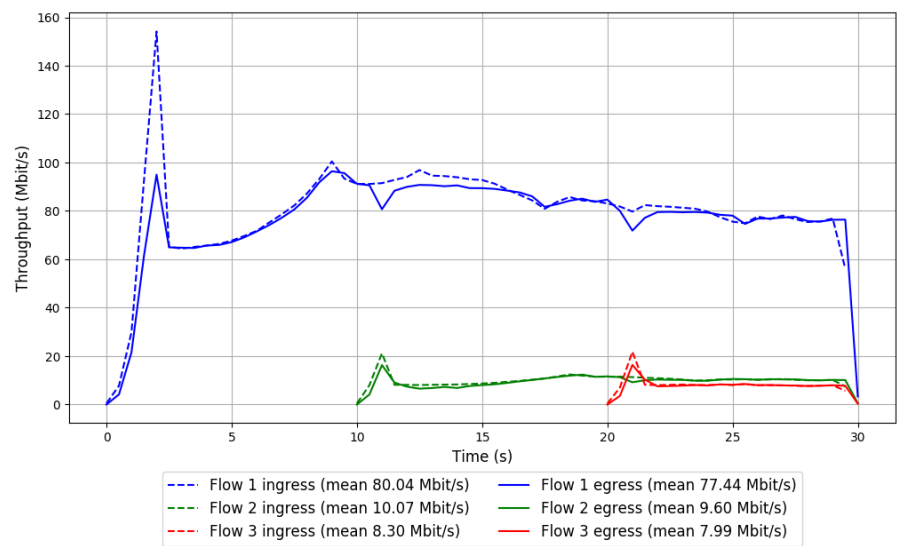
-- Flow 3:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 167.470 ms

Loss rate: 3.71%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-11 01:36:48

End at: 2018-04-11 01:37:18

Local clock offset: 53.523 ms

Remote clock offset: 8.947 ms

Below is generated by plot.py at 2018-04-11 02:50:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 161.643 ms

Loss rate: 3.37%

-- Flow 1:

Average throughput: 79.66 Mbit/s

95th percentile per-packet one-way delay: 161.668 ms

Loss rate: 3.23%

-- Flow 2:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 160.248 ms

Loss rate: 4.96%

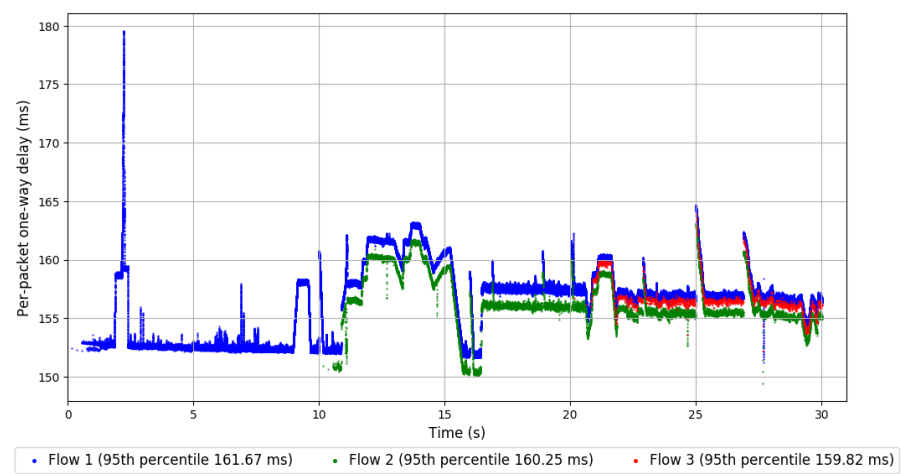
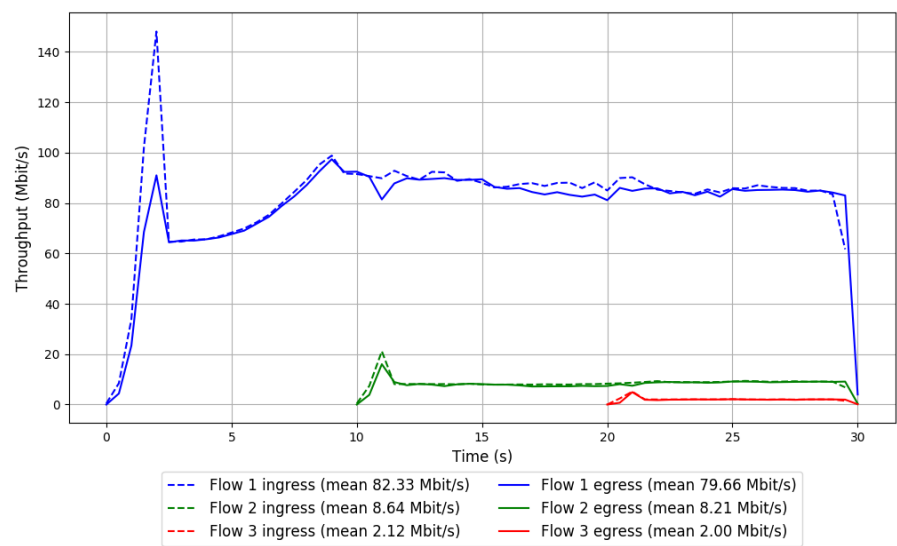
-- Flow 3:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 159.818 ms

Loss rate: 5.65%

Run 9: Report of PCC — Data Link

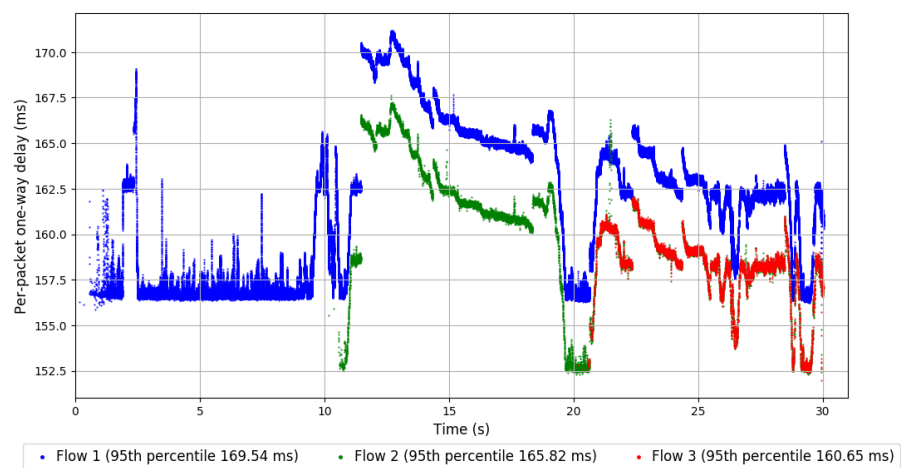
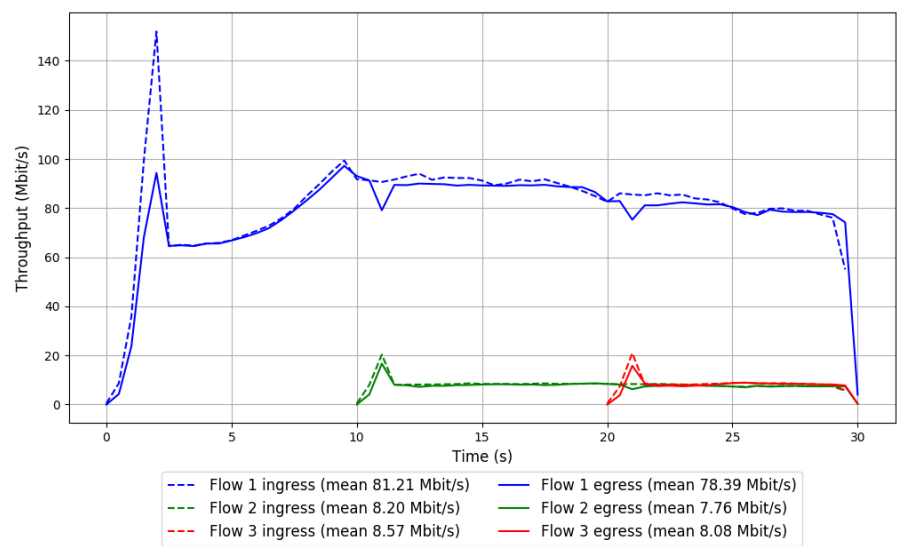


Run 10: Statistics of PCC

Start at: 2018-04-11 02:01:20
End at: 2018-04-11 02:01:50
Local clock offset: 25.653 ms
Remote clock offset: 17.113 ms

Below is generated by plot.py at 2018-04-11 02:50:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 169.485 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 78.39 Mbit/s
95th percentile per-packet one-way delay: 169.541 ms
Loss rate: 3.46%
-- Flow 2:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 165.823 ms
Loss rate: 5.42%
-- Flow 3:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 160.654 ms
Loss rate: 5.71%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 22:38:32

End at: 2018-04-10 22:39:02

Local clock offset: 1.562 ms

Remote clock offset: 3.31 ms

Below is generated by plot.py at 2018-04-11 02:50:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 159.751 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 159.936 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 158.106 ms

Loss rate: 2.98%

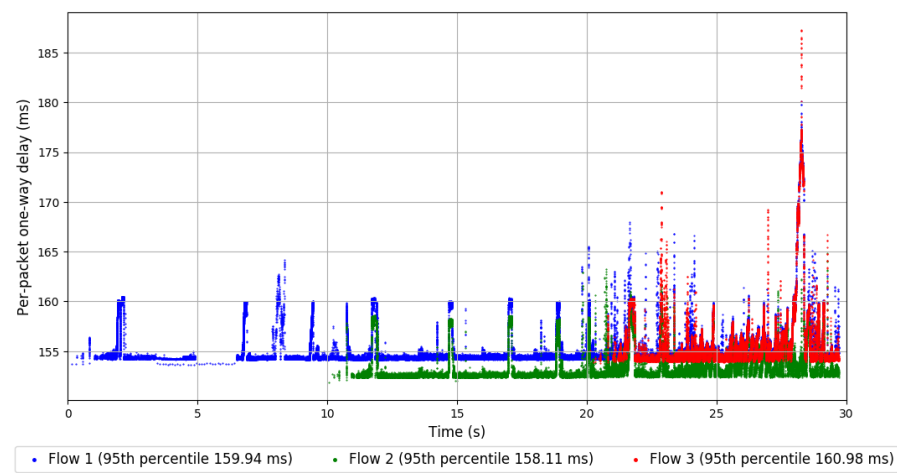
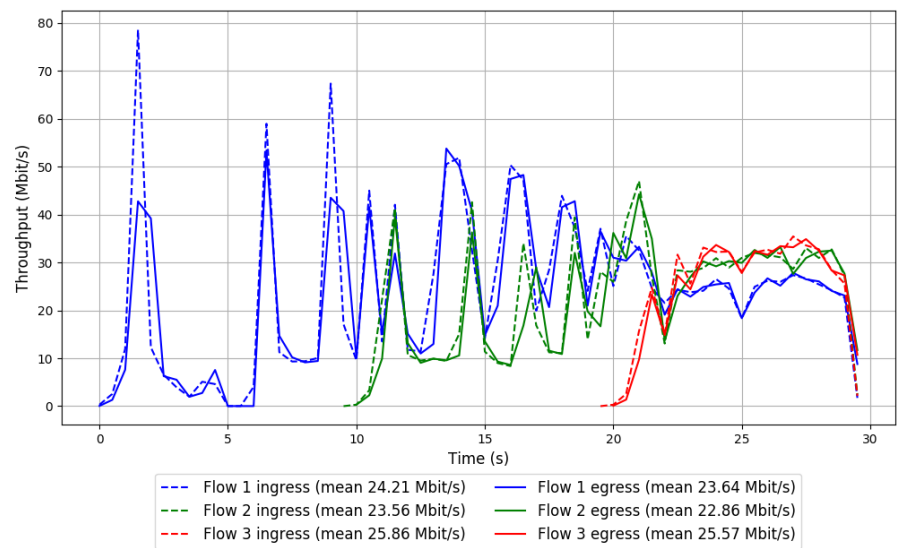
-- Flow 3:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 160.982 ms

Loss rate: 1.10%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 23:02:57

End at: 2018-04-10 23:03:27

Local clock offset: 1.95 ms

Remote clock offset: 2.62 ms

Below is generated by plot.py at 2018-04-11 02:50:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 158.071 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 157.988 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 18.40 Mbit/s

95th percentile per-packet one-way delay: 158.963 ms

Loss rate: 0.45%

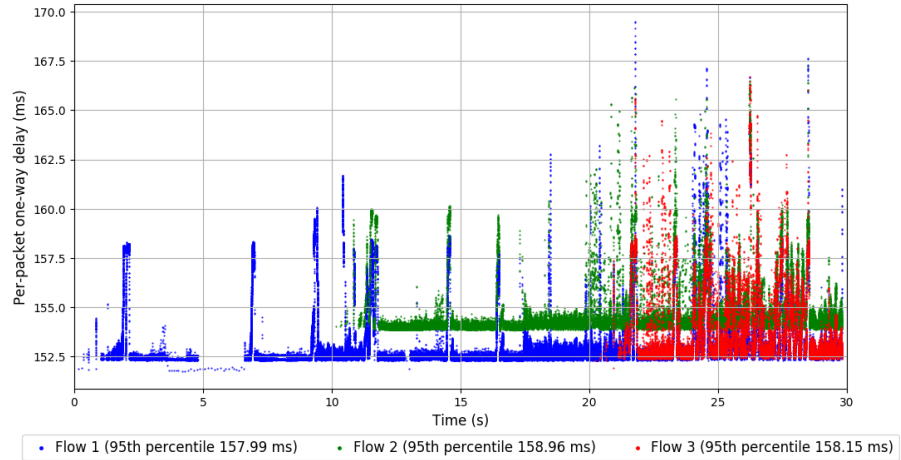
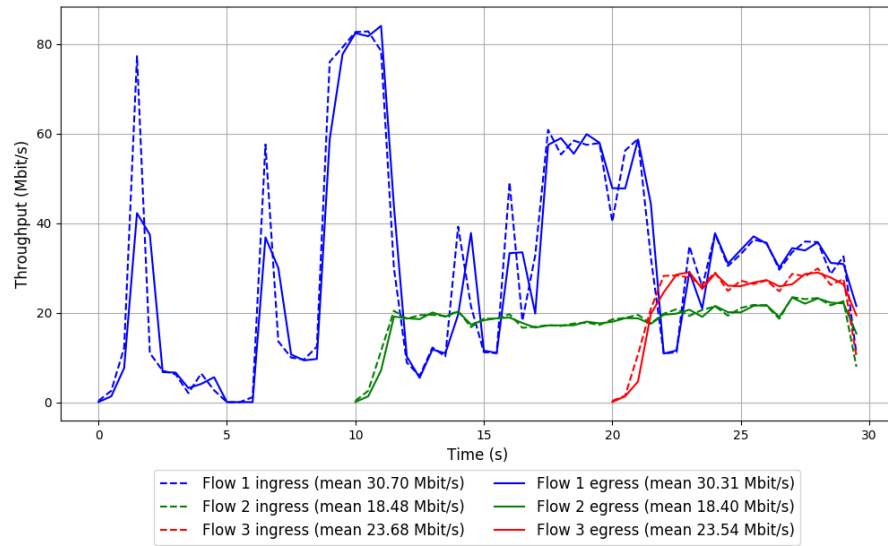
-- Flow 3:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 158.148 ms

Loss rate: 0.58%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 23:27:30

End at: 2018-04-10 23:28:00

Local clock offset: 1.821 ms

Remote clock offset: 2.368 ms

Below is generated by plot.py at 2018-04-11 02:50:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 159.085 ms

Loss rate: 3.38%

-- Flow 1:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 158.666 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 18.58 Mbit/s

95th percentile per-packet one-way delay: 159.894 ms

Loss rate: 5.42%

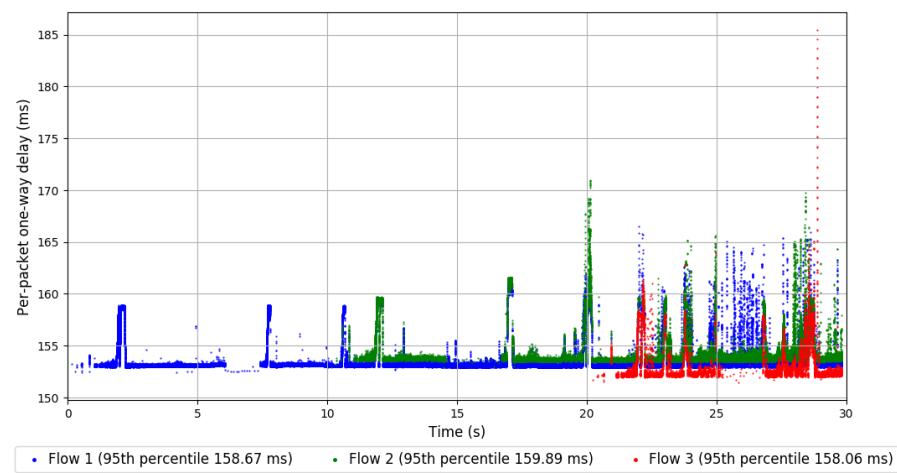
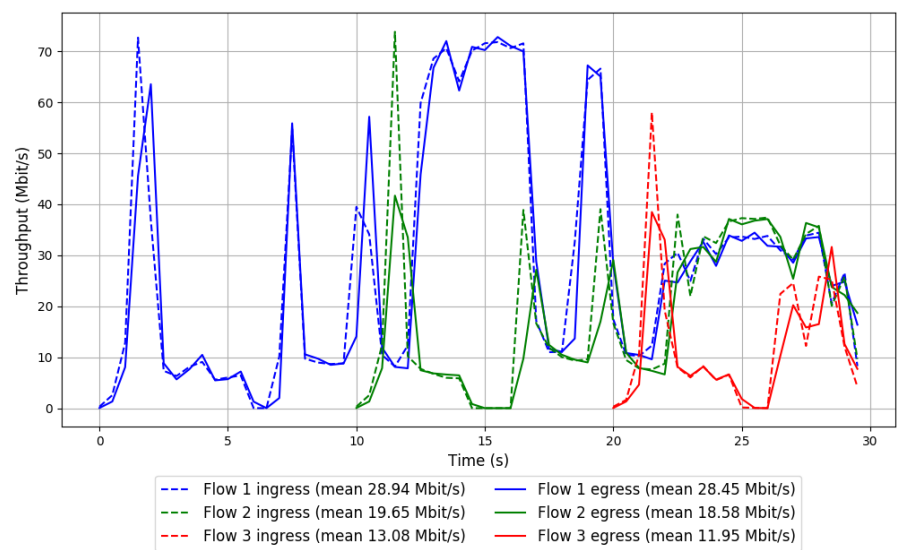
-- Flow 3:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 158.060 ms

Loss rate: 8.67%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 23:51:53

End at: 2018-04-10 23:52:23

Local clock offset: 1.931 ms

Remote clock offset: 5.015 ms

Below is generated by plot.py at 2018-04-11 02:50:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 159.412 ms

Loss rate: 4.69%

-- Flow 1:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 158.234 ms

Loss rate: 3.21%

-- Flow 2:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 160.012 ms

Loss rate: 8.51%

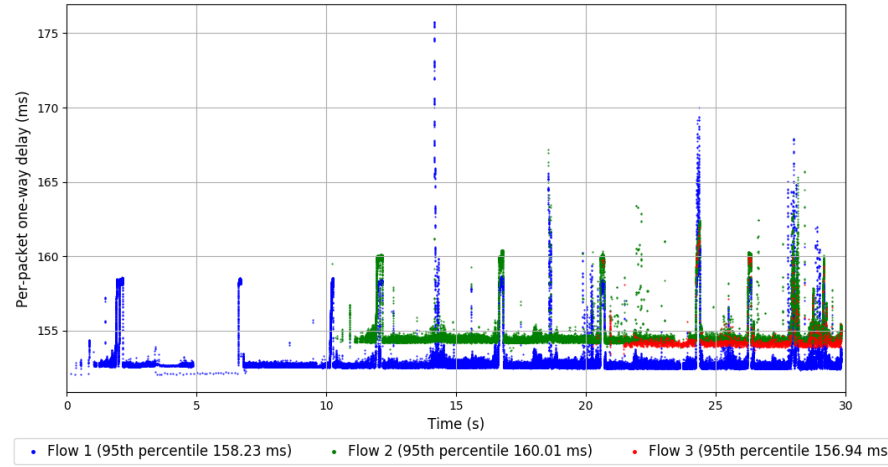
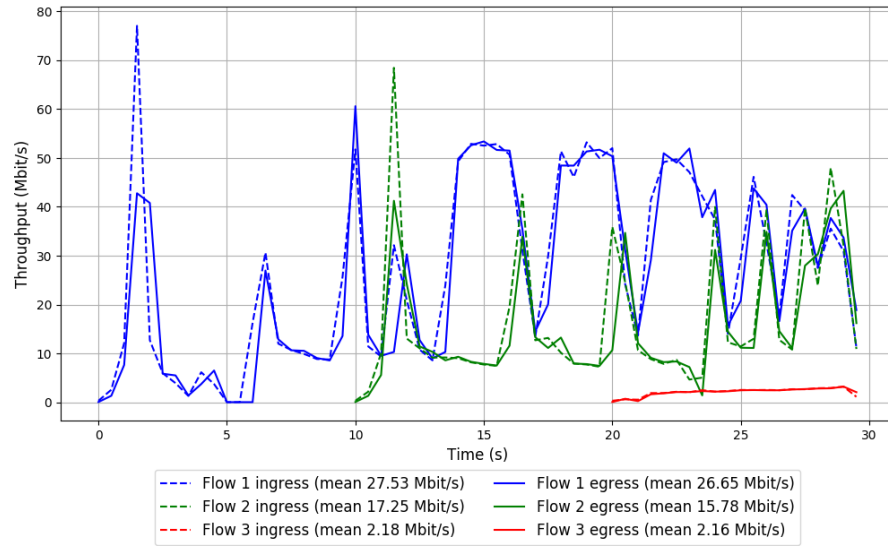
-- Flow 3:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 156.940 ms

Loss rate: 0.93%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-11 00:16:26

End at: 2018-04-11 00:16:56

Local clock offset: 1.952 ms

Remote clock offset: 9.527 ms

Below is generated by plot.py at 2018-04-11 02:50:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 160.080 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 159.600 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 28.07 Mbit/s

95th percentile per-packet one-way delay: 162.211 ms

Loss rate: 0.19%

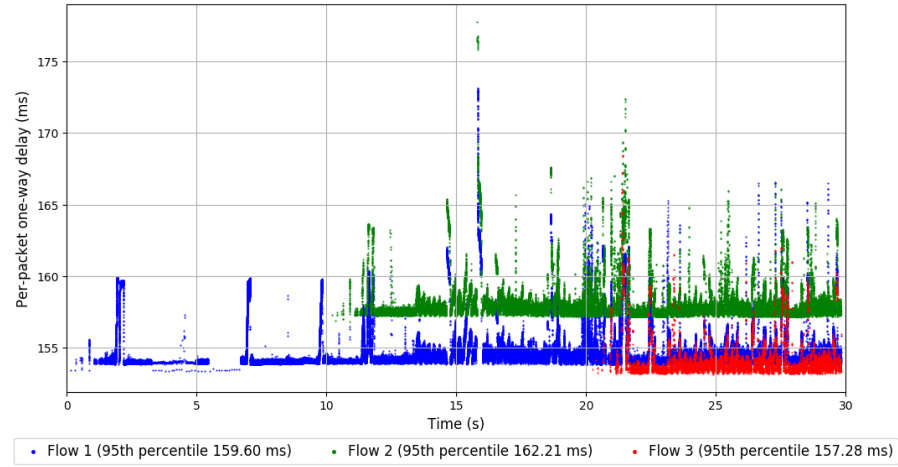
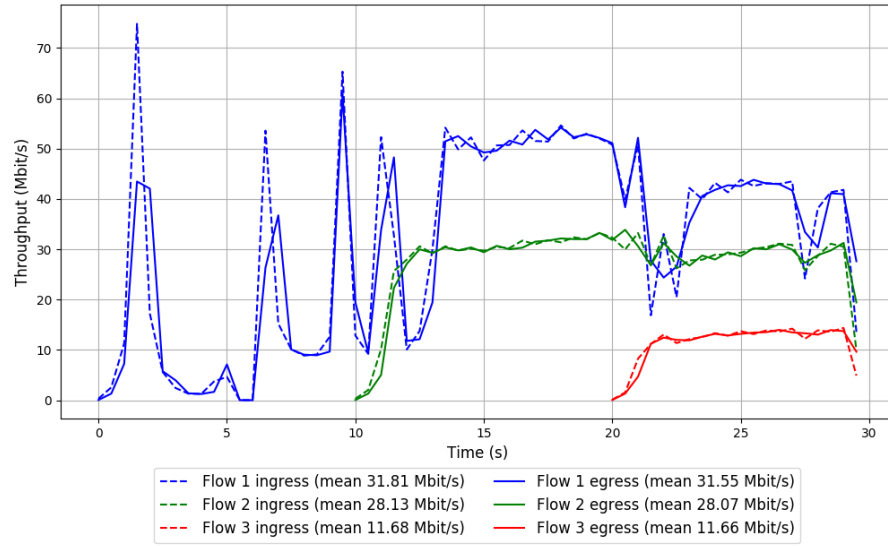
-- Flow 3:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 157.284 ms

Loss rate: 0.16%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-11 00:40:54

End at: 2018-04-11 00:41:24

Local clock offset: 28.898 ms

Remote clock offset: 0.731 ms

Below is generated by plot.py at 2018-04-11 02:50:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.47 Mbit/s

95th percentile per-packet one-way delay: 160.690 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 161.394 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 157.602 ms

Loss rate: 0.66%

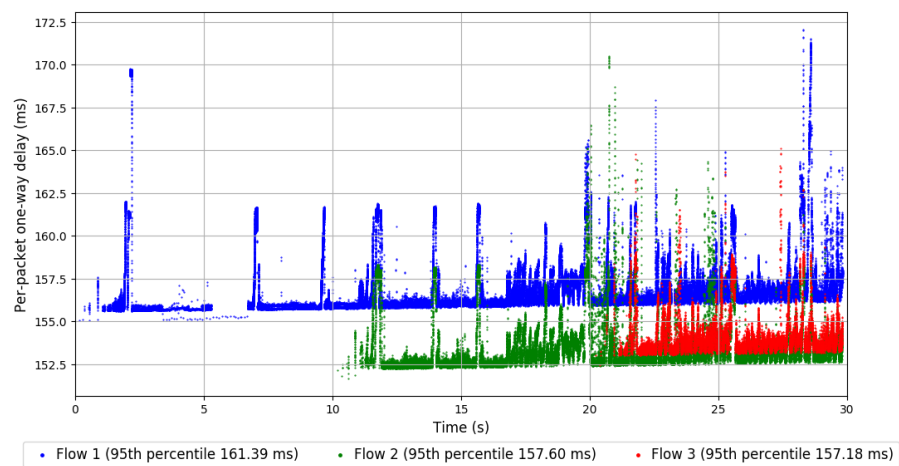
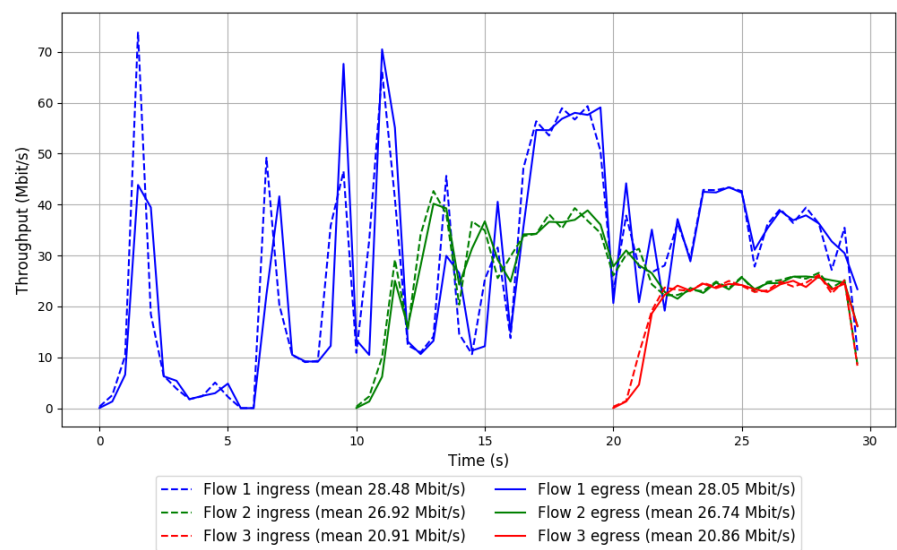
-- Flow 3:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 157.176 ms

Loss rate: 0.23%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-11 01:05:38

End at: 2018-04-11 01:06:08

Local clock offset: 44.623 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-04-11 02:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.96 Mbit/s

95th percentile per-packet one-way delay: 158.612 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 28.82 Mbit/s

95th percentile per-packet one-way delay: 159.579 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 26.57 Mbit/s

95th percentile per-packet one-way delay: 156.225 ms

Loss rate: 0.40%

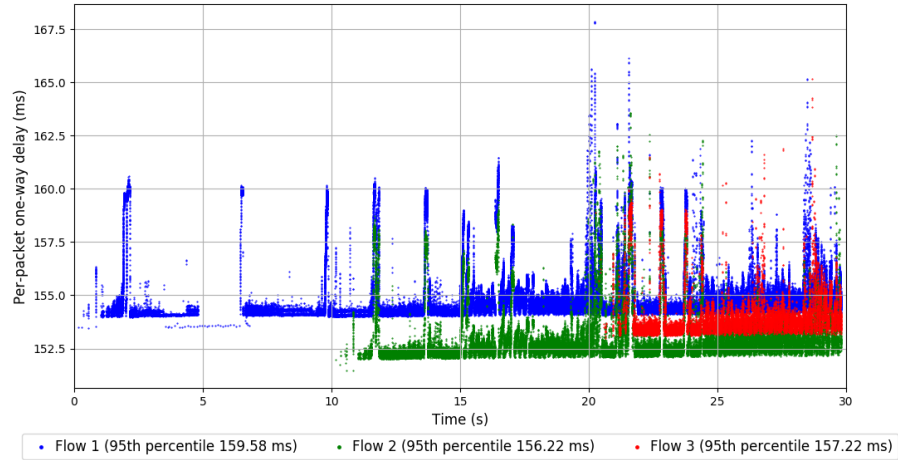
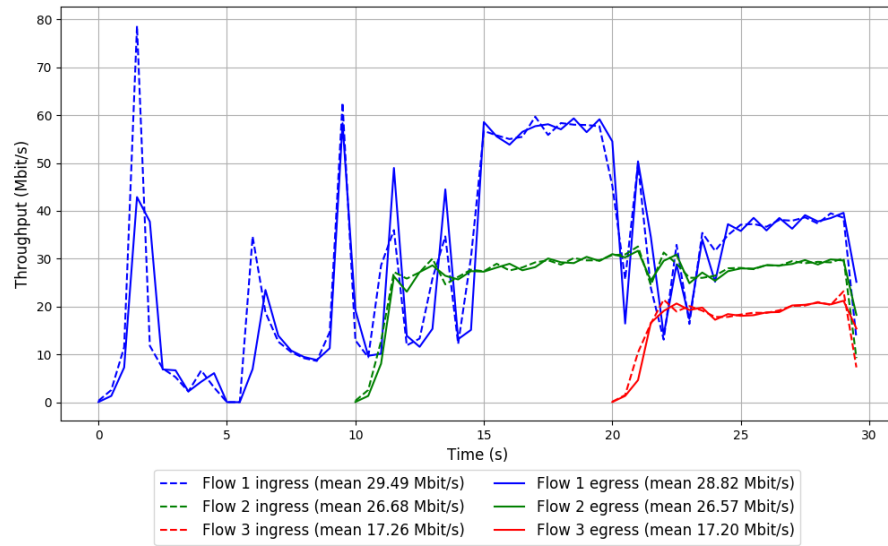
-- Flow 3:

Average throughput: 17.20 Mbit/s

95th percentile per-packet one-way delay: 157.222 ms

Loss rate: 0.42%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-11 01:30:05

End at: 2018-04-11 01:30:35

Local clock offset: 56.199 ms

Remote clock offset: 2.689 ms

Below is generated by plot.py at 2018-04-11 02:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.62 Mbit/s

95th percentile per-packet one-way delay: 158.300 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 157.125 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 29.01 Mbit/s

95th percentile per-packet one-way delay: 160.087 ms

Loss rate: 0.28%

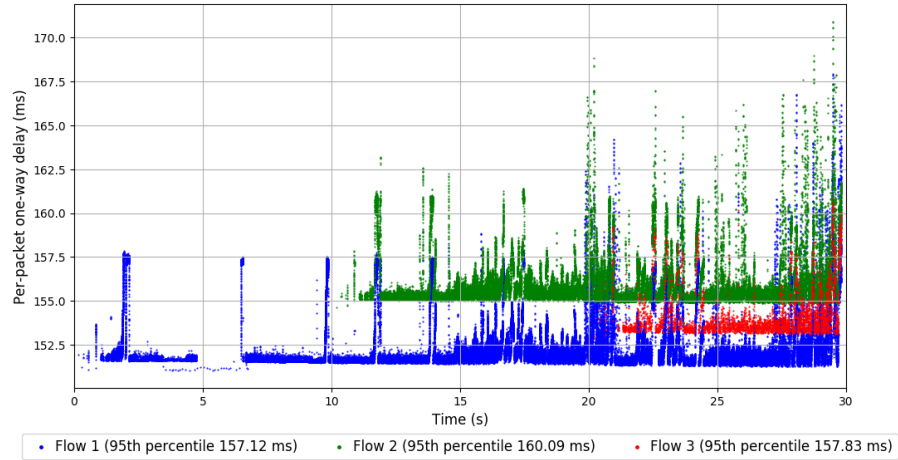
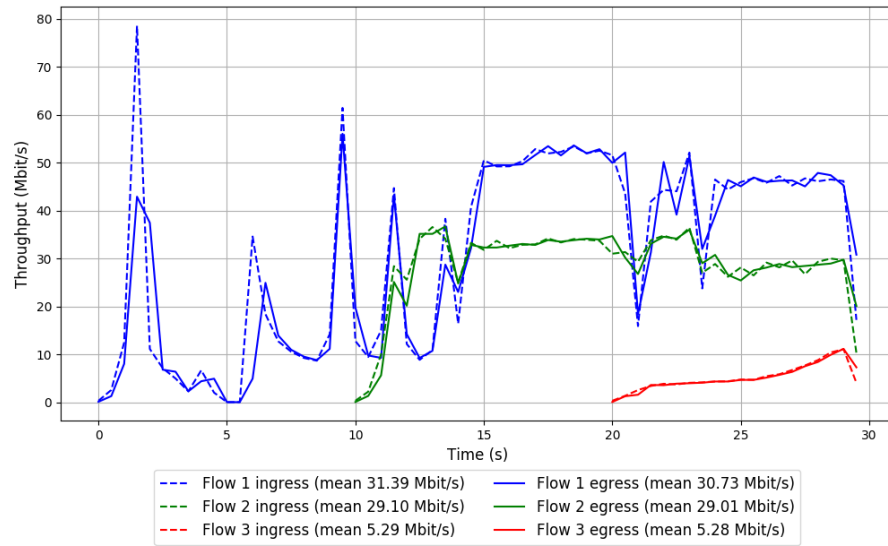
-- Flow 3:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 157.831 ms

Loss rate: 0.09%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-11 01:54:40

End at: 2018-04-11 01:55:10

Local clock offset: 27.966 ms

Remote clock offset: 15.64 ms

Below is generated by plot.py at 2018-04-11 02:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.50 Mbit/s

95th percentile per-packet one-way delay: 162.493 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 162.900 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 14.32 Mbit/s

95th percentile per-packet one-way delay: 156.935 ms

Loss rate: 1.17%

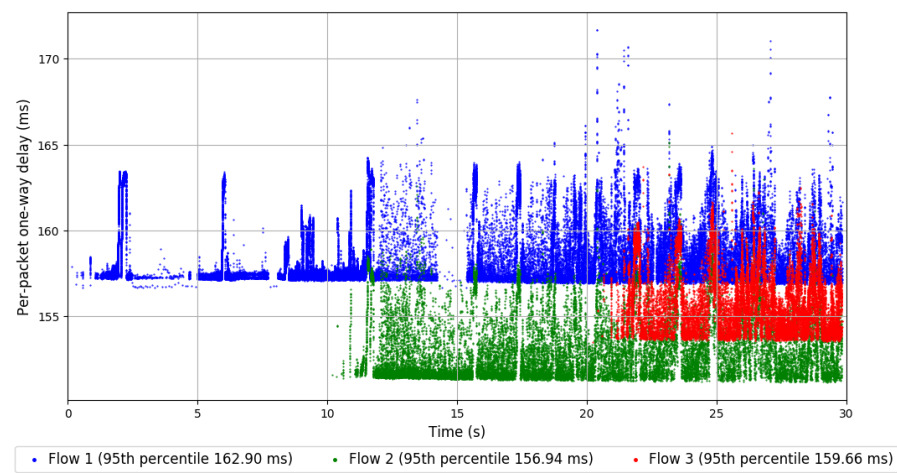
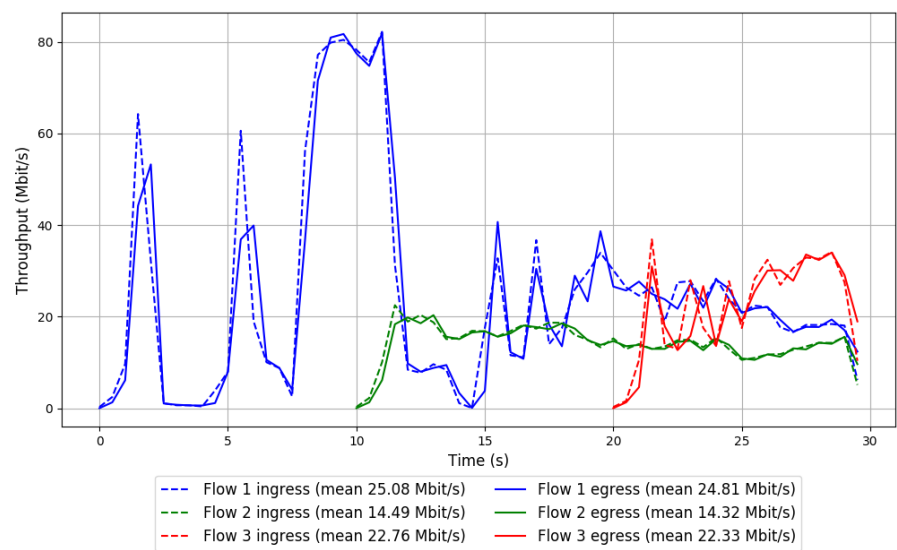
-- Flow 3:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 159.663 ms

Loss rate: 1.87%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-11 02:19:38

End at: 2018-04-11 02:20:08

Local clock offset: 10.275 ms

Remote clock offset: 1.716 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 156.935 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 156.857 ms

Loss rate: 2.25%

-- Flow 2:

Average throughput: 27.74 Mbit/s

95th percentile per-packet one-way delay: 157.752 ms

Loss rate: 0.57%

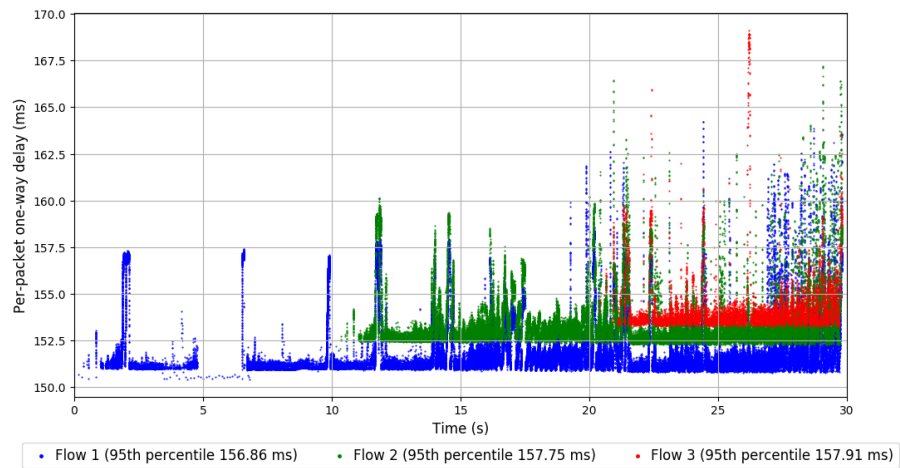
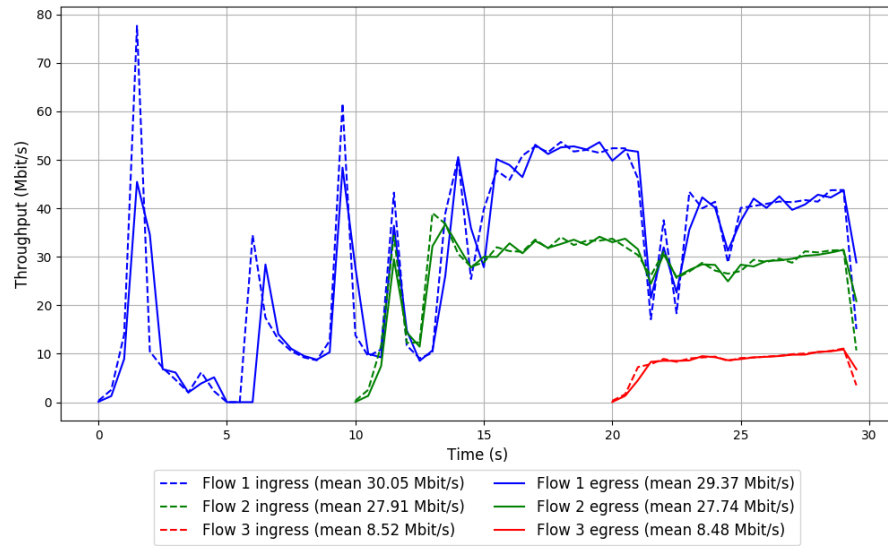
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 157.910 ms

Loss rate: 0.39%

Run 10: Report of QUIC Cubic — Data Link

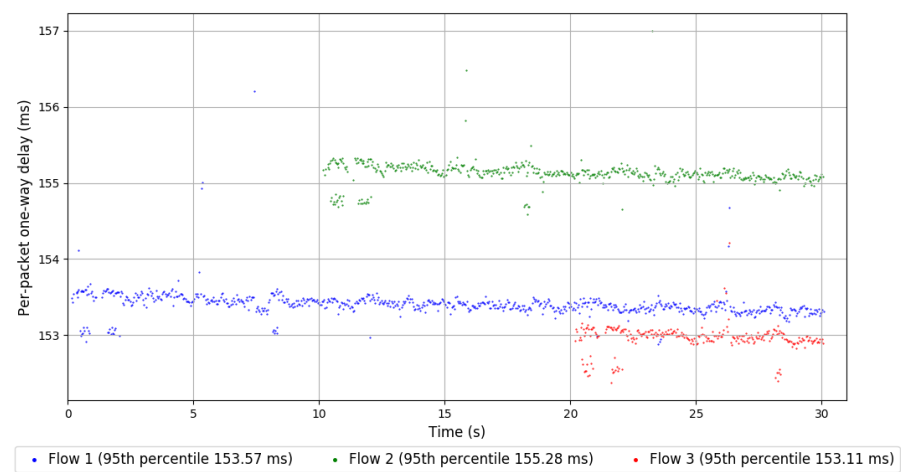
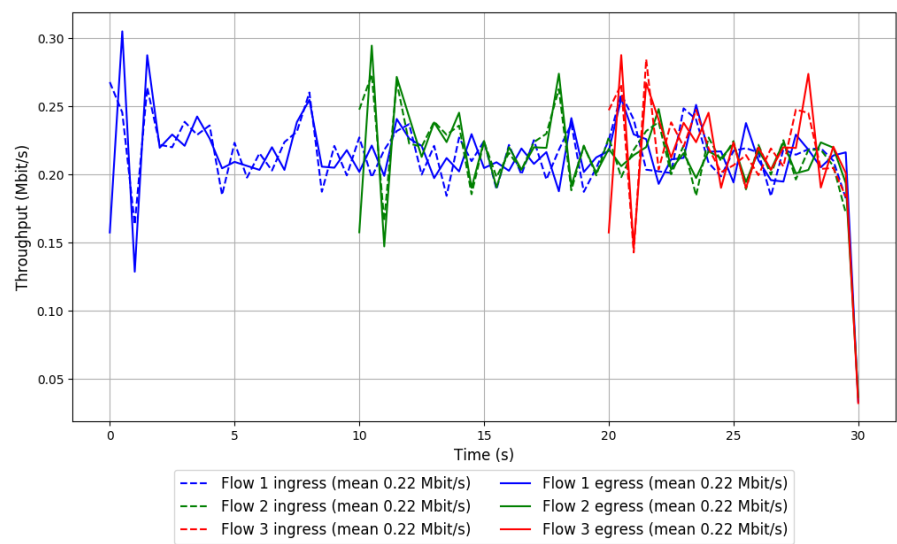


```
Run 1: Statistics of SReAM

Start at: 2018-04-10 22:16:41
End at: 2018-04-10 22:17:11
Local clock offset: 1.686 ms
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-04-11 02:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 155.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.571 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 155.285 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.107 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

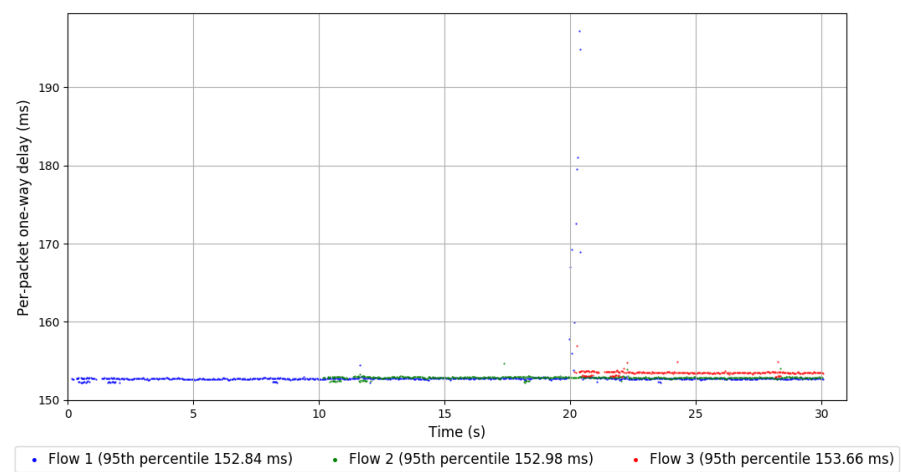
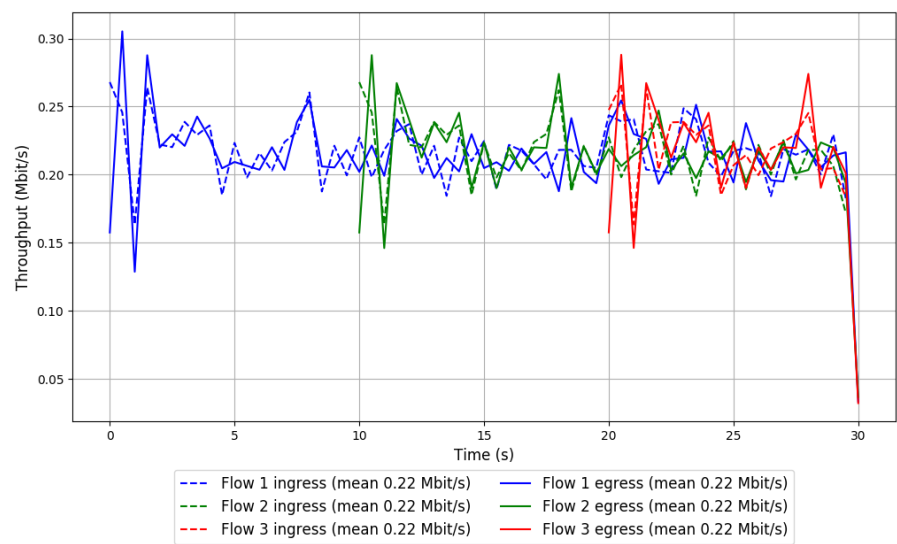


```
Run 2: Statistics of SReAM

Start at: 2018-04-10 22:41:14
End at: 2018-04-10 22:41:44
Local clock offset: 1.444 ms
Remote clock offset: 3.055 ms

# Below is generated by plot.py at 2018-04-11 02:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.845 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.979 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.661 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

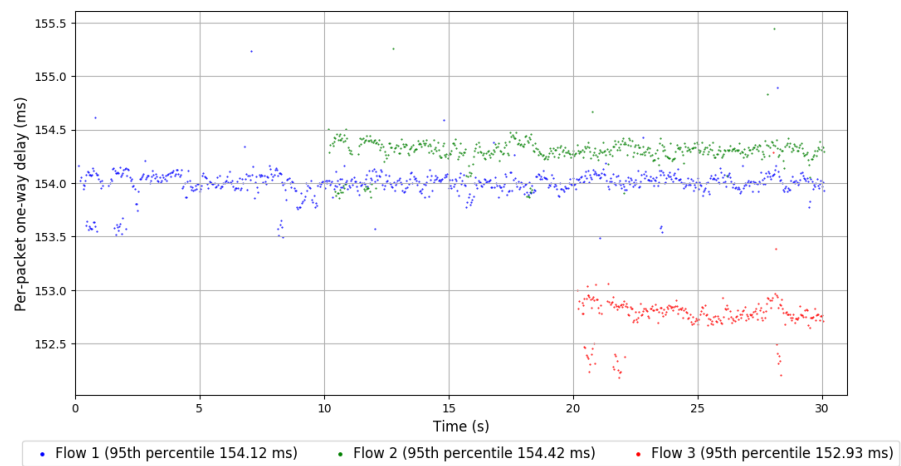
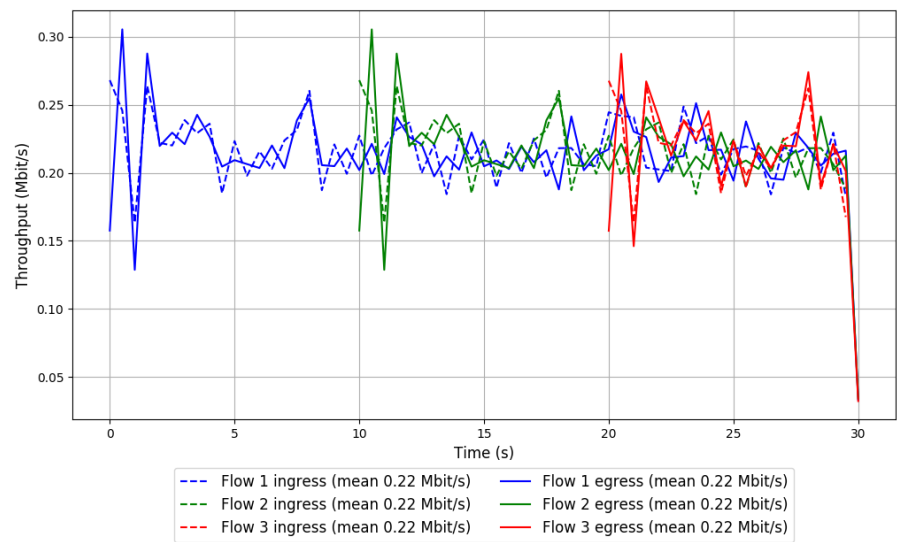


Run 3: Statistics of SReAM

Start at: 2018-04-10 23:05:40
End at: 2018-04-10 23:06:10
Local clock offset: 1.808 ms
Remote clock offset: 2.705 ms

Below is generated by plot.py at 2018-04-11 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.121 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.417 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.933 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-04-10 23:30:12

End at: 2018-04-10 23:30:42

Local clock offset: 2.009 ms

Remote clock offset: 2.356 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 153.637 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.475 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.286 ms

Loss rate: 0.00%

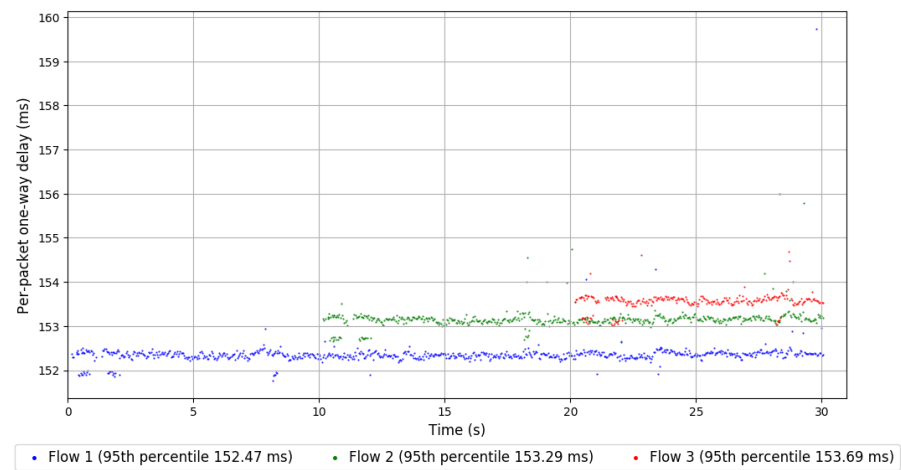
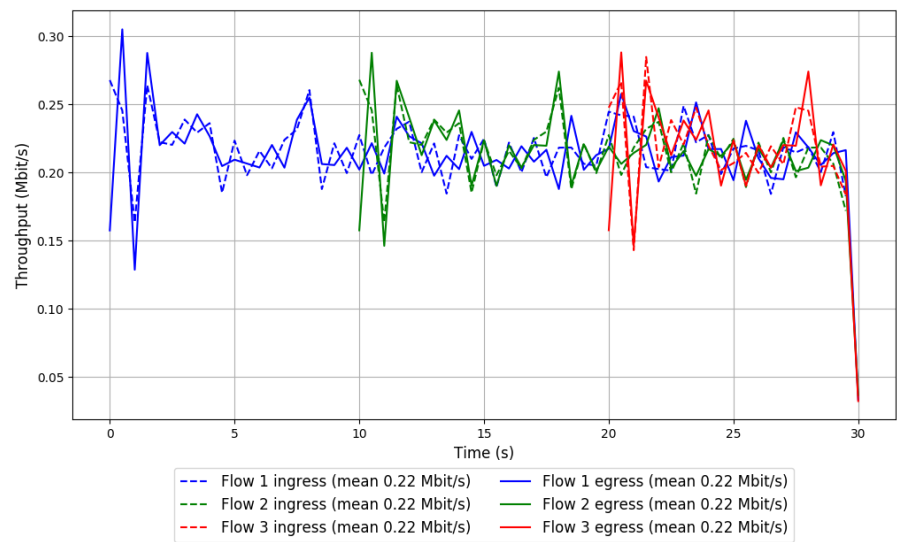
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.694 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-04-10 23:54:35

End at: 2018-04-10 23:55:05

Local clock offset: 2.001 ms

Remote clock offset: 5.858 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 153.316 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.527 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 153.405 ms

Loss rate: 0.00%

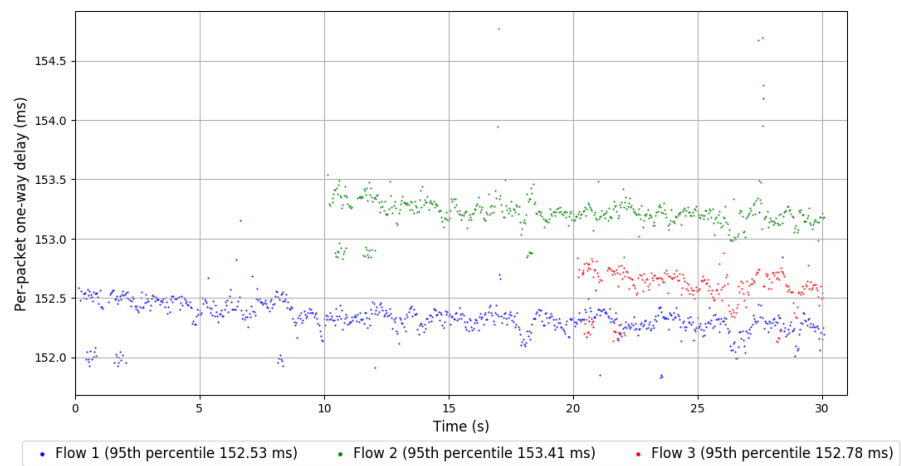
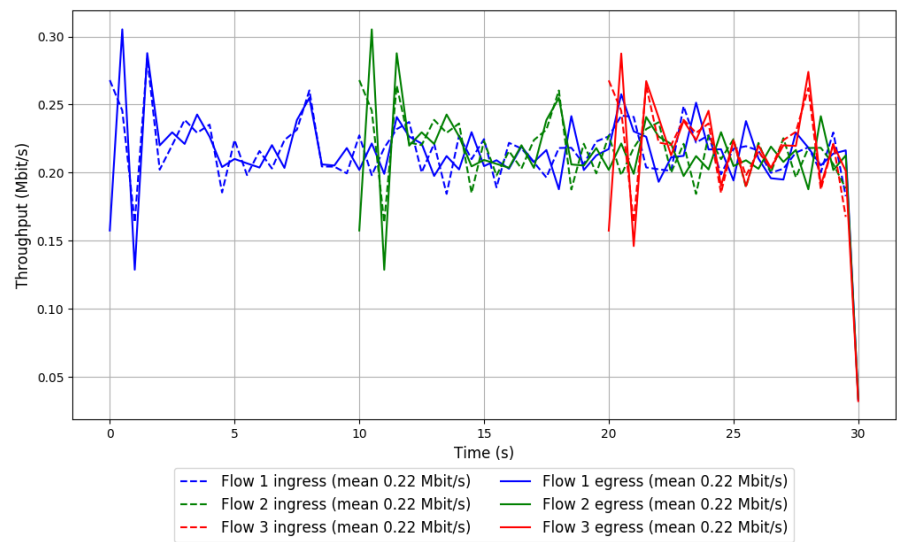
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.784 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-11 00:19:09

End at: 2018-04-11 00:19:39

Local clock offset: 1.986 ms

Remote clock offset: 9.748 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 155.074 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 155.099 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 154.481 ms

Loss rate: 0.00%

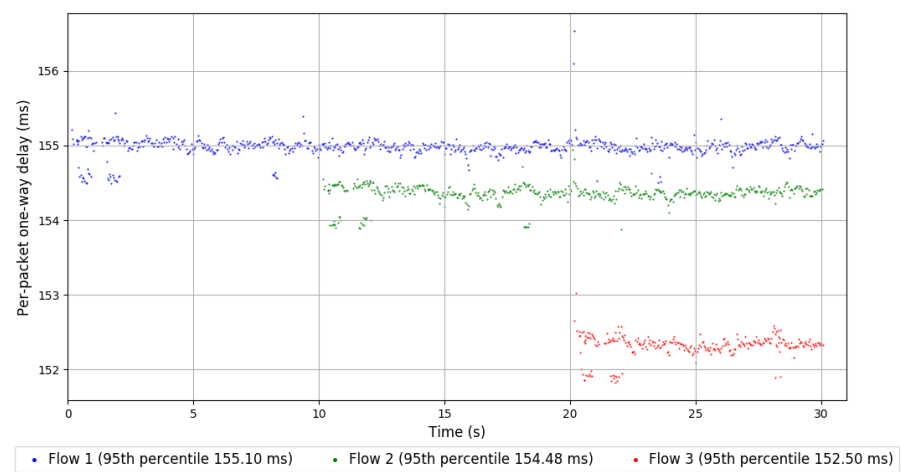
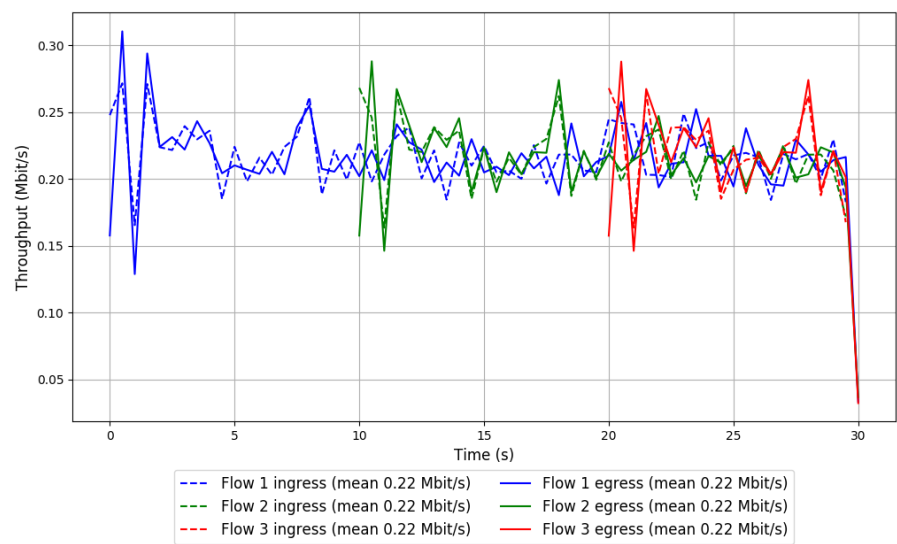
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 152.495 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

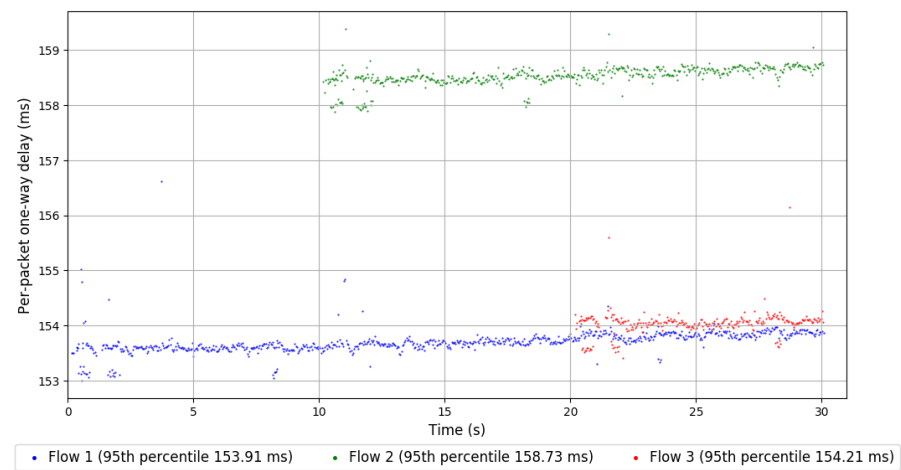
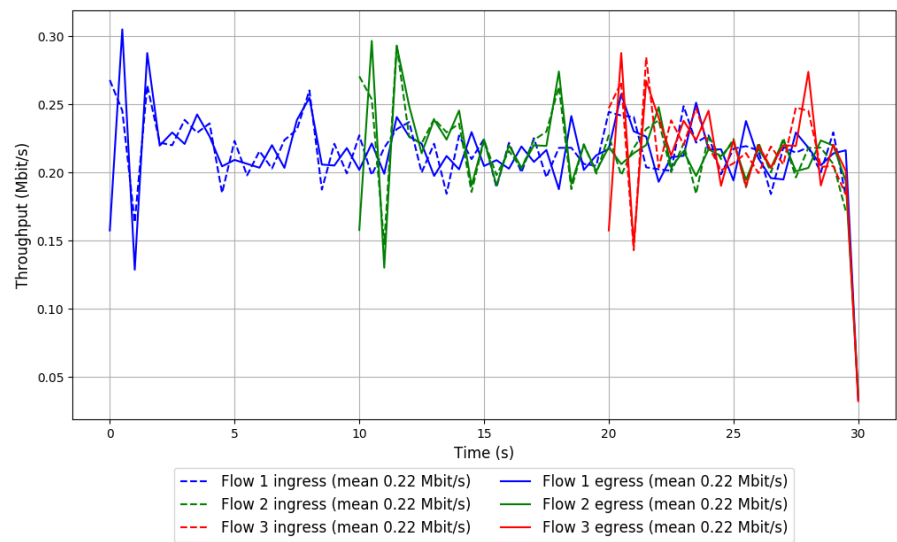


Run 7: Statistics of SReAM

Start at: 2018-04-11 00:43:37
End at: 2018-04-11 00:44:07
Local clock offset: 31.371 ms
Remote clock offset: 0.52 ms

Below is generated by plot.py at 2018-04-11 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 158.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.909 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 158.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.206 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

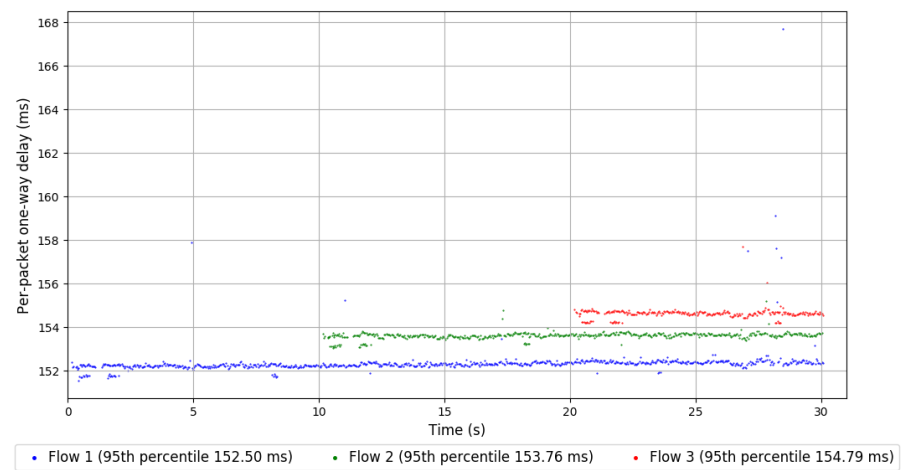
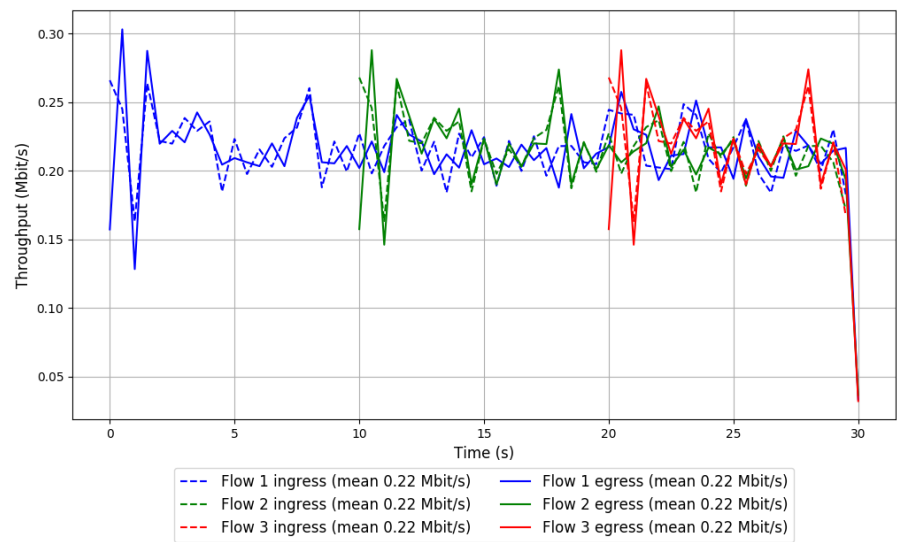


Run 8: Statistics of SReAM

Start at: 2018-04-11 01:08:21
End at: 2018-04-11 01:08:51
Local clock offset: 46.029 ms
Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-04-11 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.496 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.759 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.790 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

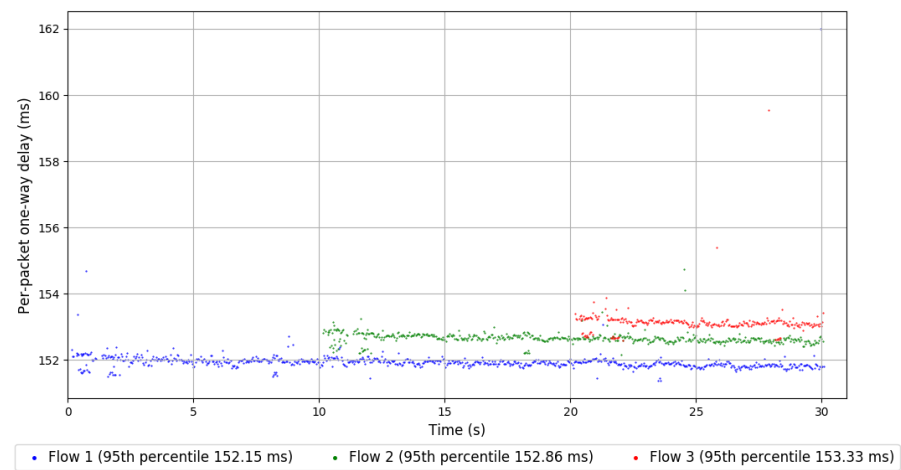
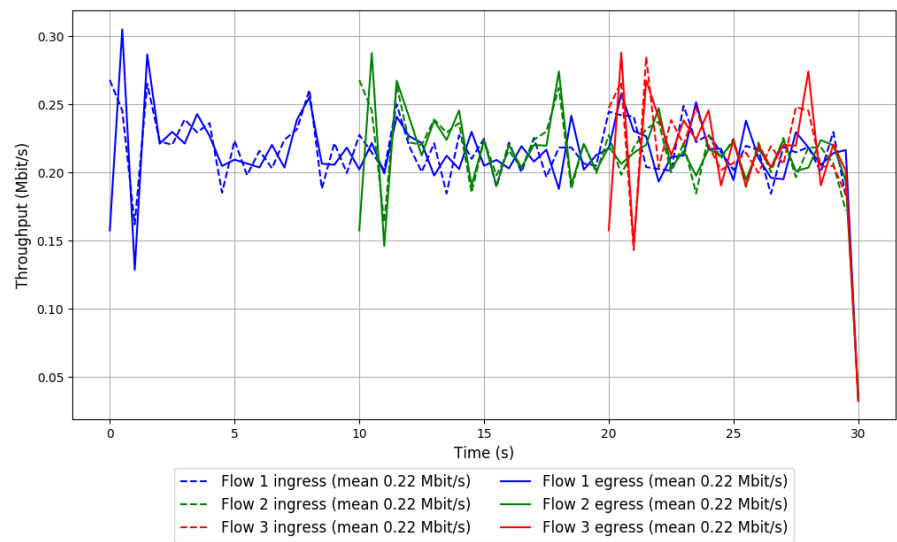


Run 9: Statistics of SReAM

Start at: 2018-04-11 01:32:49
End at: 2018-04-11 01:33:19
Local clock offset: 57.349 ms
Remote clock offset: 5.55 ms

```
# Below is generated by plot.py at 2018-04-11 02:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.145 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.332 ms
Loss rate: 0.00%
```

Run 9: Report of SReAM — Data Link

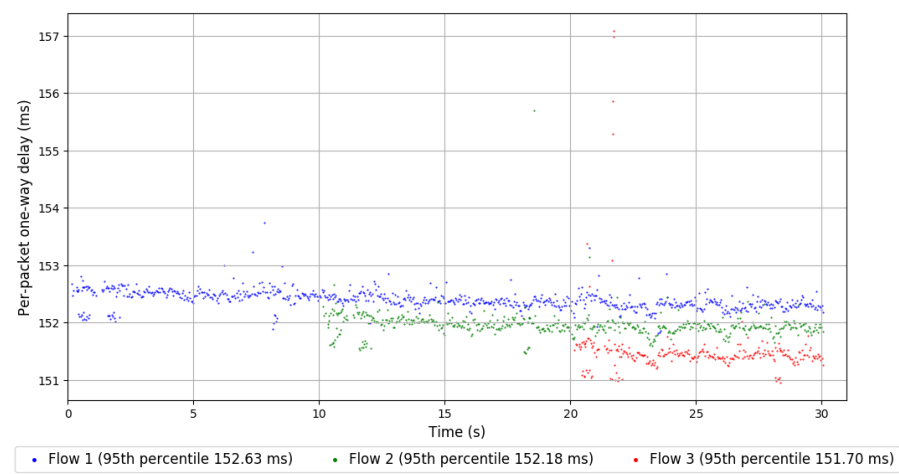
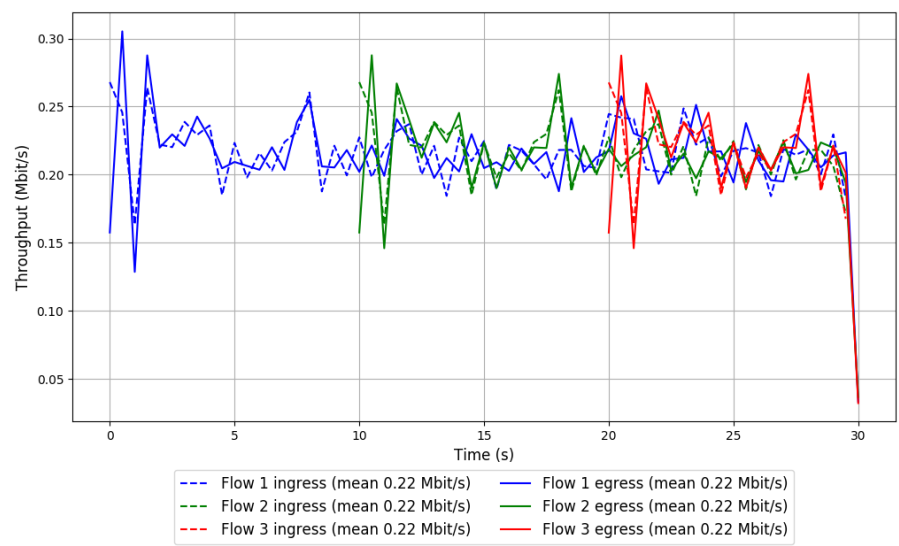


Run 10: Statistics of SReAM

Start at: 2018-04-11 01:57:22
End at: 2018-04-11 01:57:52
Local clock offset: 26.981 ms
Remote clock offset: 16.224 ms

Below is generated by plot.py at 2018-04-11 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 152.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.183 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.702 ms
Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-10 22:37:16

End at: 2018-04-10 22:37:46

Local clock offset: 1.442 ms

Remote clock offset: 3.437 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 158.544 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 159.125 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.428 ms

Loss rate: 0.00%

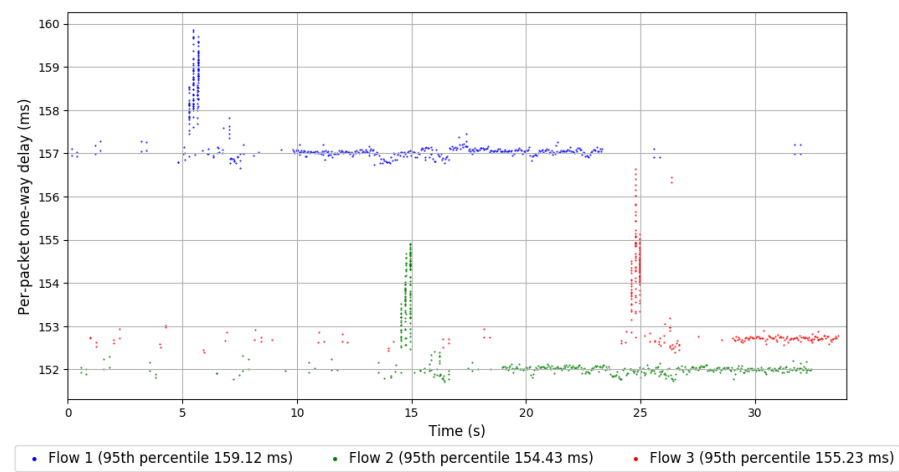
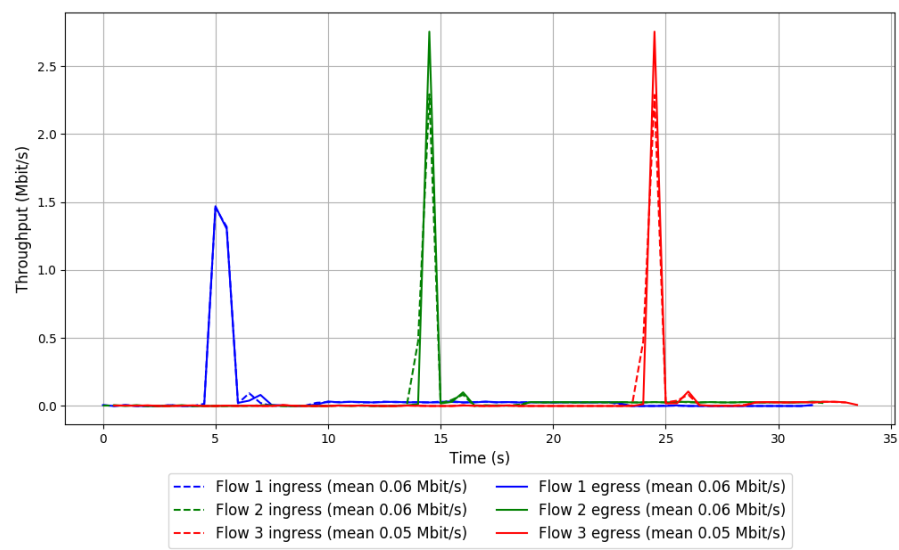
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 155.229 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-10 23:01:41

End at: 2018-04-10 23:02:11

Local clock offset: 1.726 ms

Remote clock offset: 2.653 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 156.123 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 153.717 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.470 ms

Loss rate: 0.00%

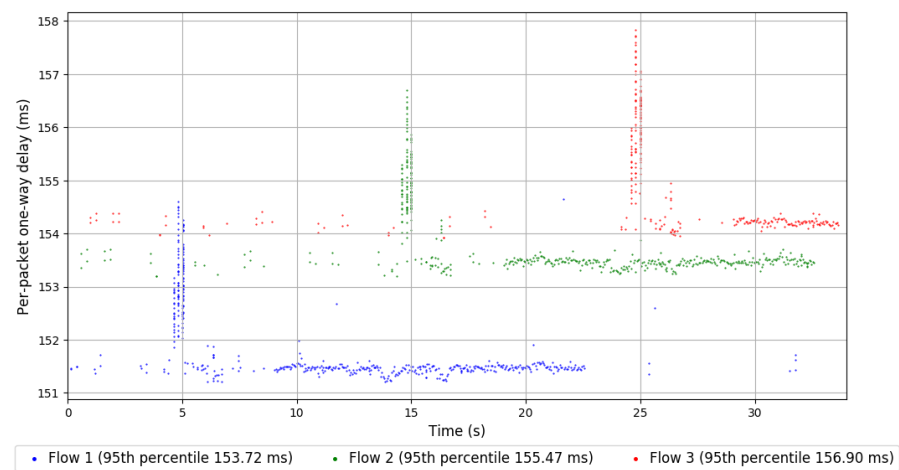
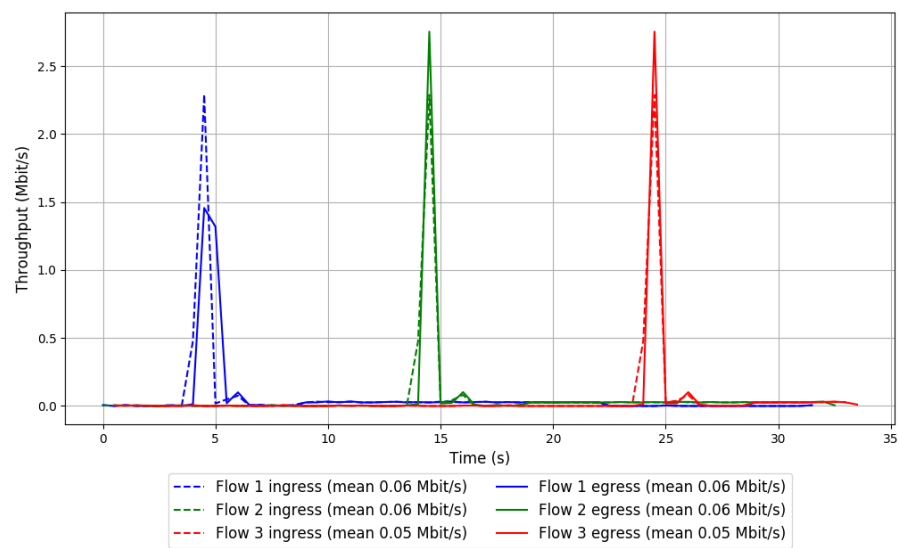
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 156.897 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 23:26:13

End at: 2018-04-10 23:26:43

Local clock offset: 1.945 ms

Remote clock offset: 2.356 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 154.856 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.683 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.094 ms

Loss rate: 0.00%

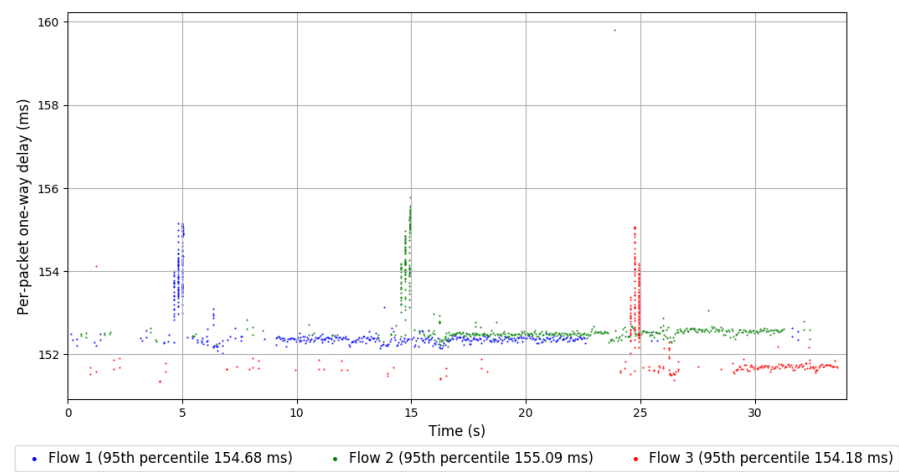
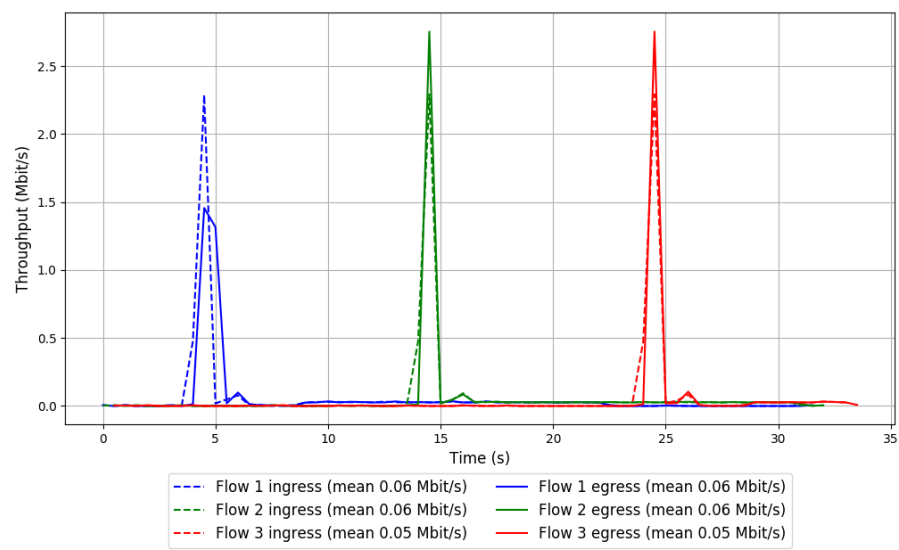
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 154.175 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 23:50:36

End at: 2018-04-10 23:51:06

Local clock offset: 2.013 ms

Remote clock offset: 4.54 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 154.727 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 153.936 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.333 ms

Loss rate: 0.00%

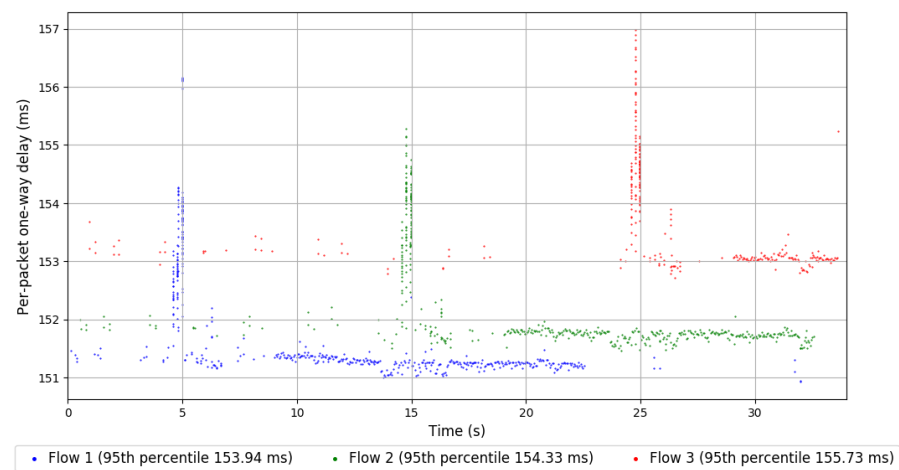
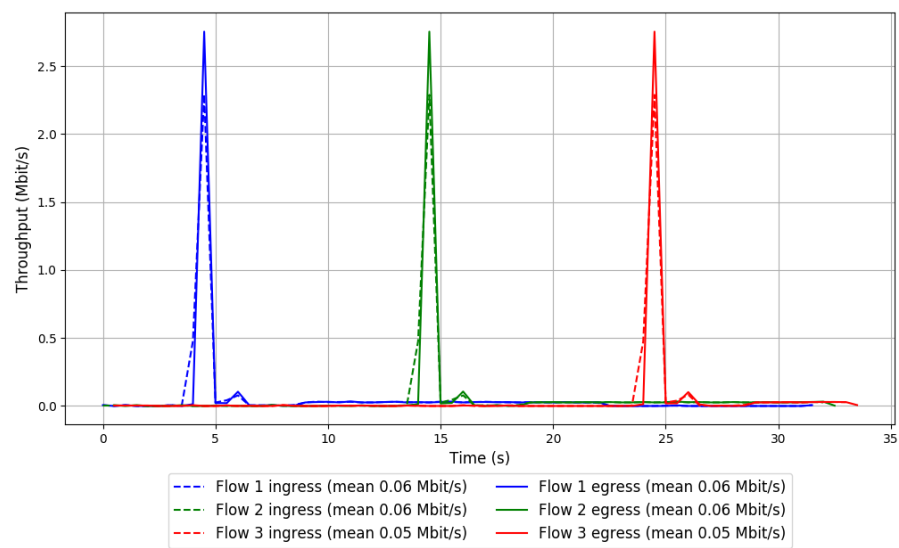
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 155.734 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-11 00:15:10

End at: 2018-04-11 00:15:40

Local clock offset: 1.891 ms

Remote clock offset: 9.254 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 156.064 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 153.704 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 156.506 ms

Loss rate: 0.00%

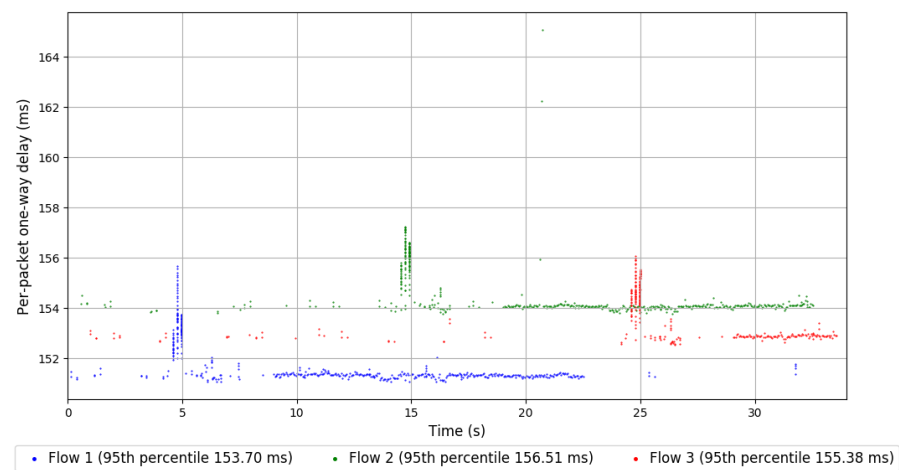
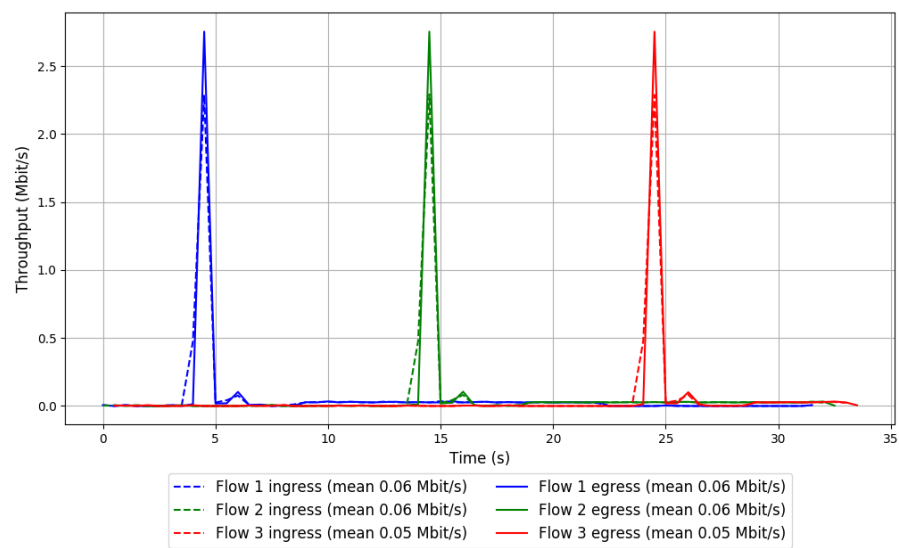
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 155.380 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-11 00:39:38

End at: 2018-04-11 00:40:08

Local clock offset: 27.538 ms

Remote clock offset: 0.928 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 155.584 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.998 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.730 ms

Loss rate: 0.00%

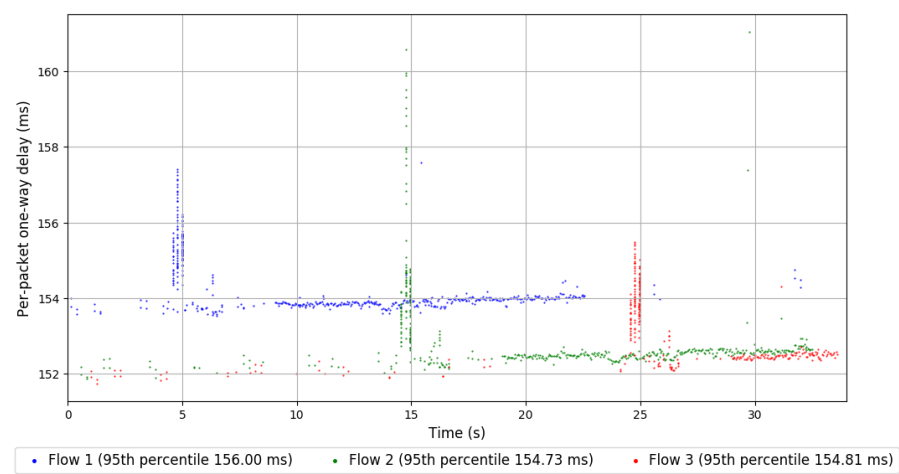
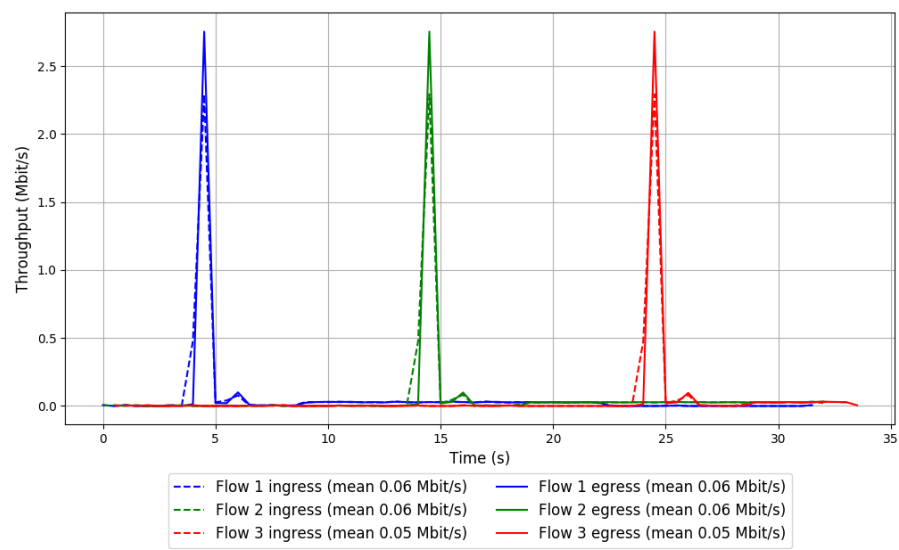
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 154.806 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-11 01:04:22

End at: 2018-04-11 01:04:52

Local clock offset: 43.9 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 156.436 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 155.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.972 ms

Loss rate: 0.00%

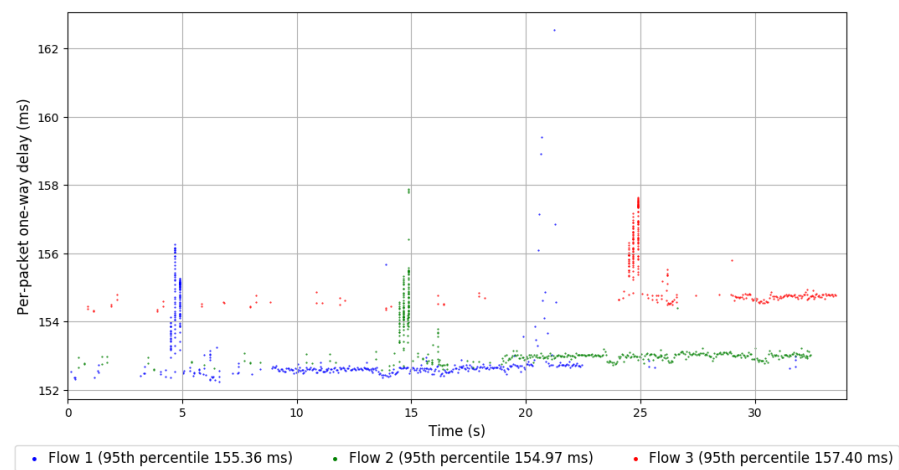
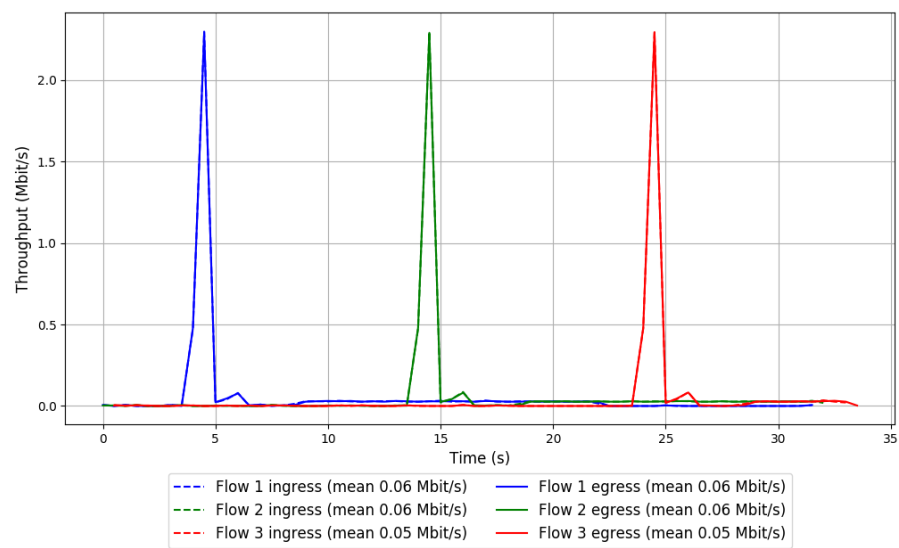
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 157.399 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-11 01:28:48

End at: 2018-04-11 01:29:18

Local clock offset: 55.63 ms

Remote clock offset: 0.928 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 158.944 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 154.859 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 159.462 ms

Loss rate: 0.00%

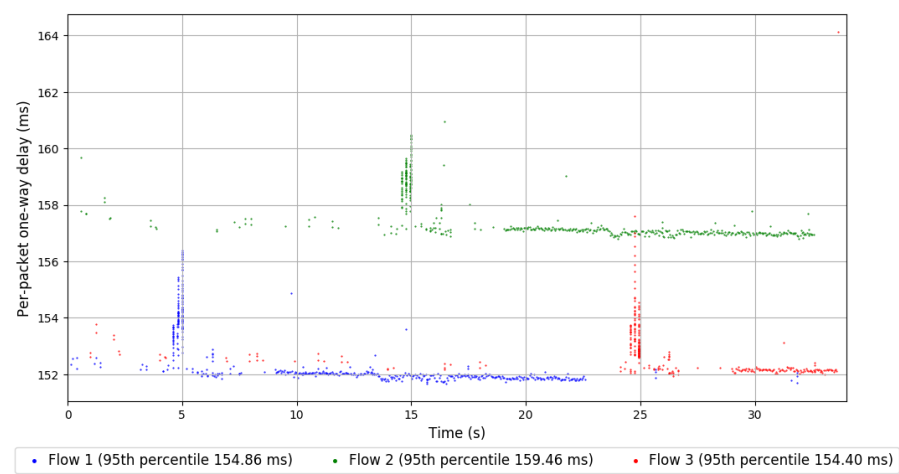
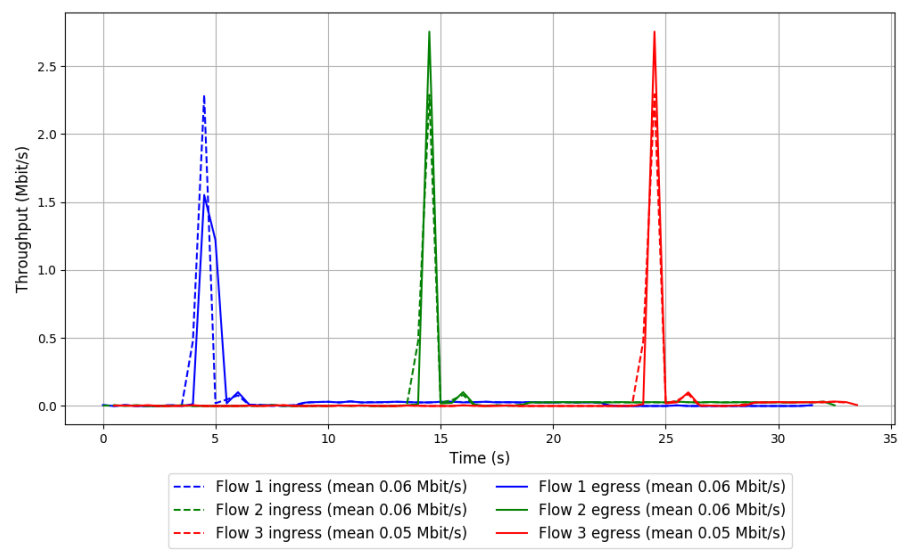
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 154.403 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

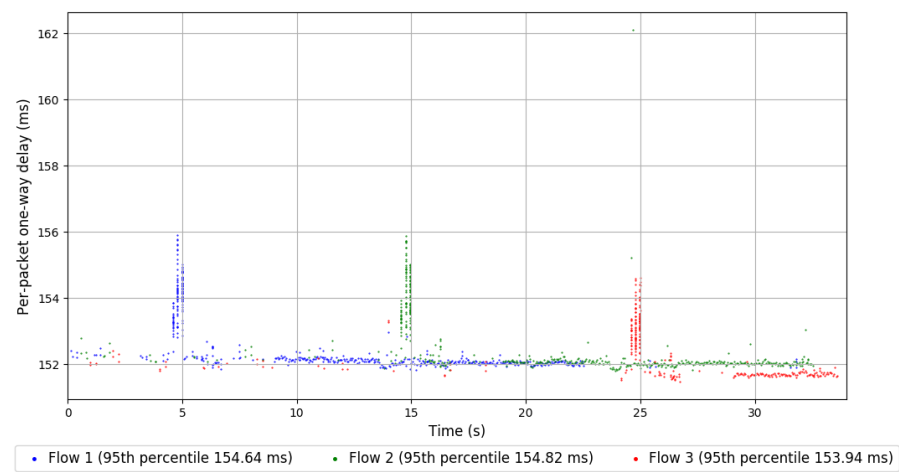
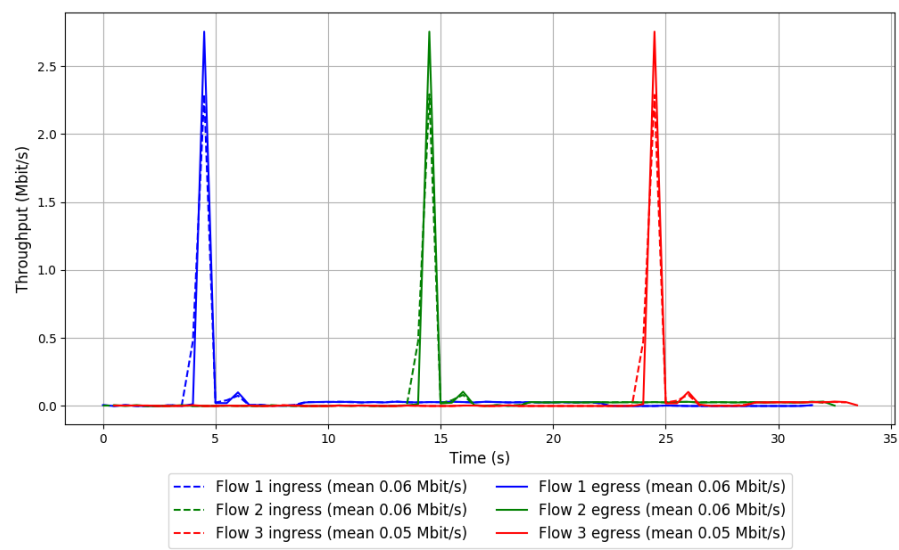


Run 9: Statistics of WebRTC media

Start at: 2018-04-11 01:53:24
End at: 2018-04-11 01:53:54
Local clock offset: 29.021 ms
Remote clock offset: 15.288 ms

Below is generated by plot.py at 2018-04-11 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.643 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.825 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.943 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

/home/ubuntu/pantheon_data/2018-04-10T22-14-AWS-Korea-to-China-10-runs-3-flows/webrtc_stats.

Run 10: Report of WebRTC media — Data Link

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Run 1: Statistics of Sprout

Start at: 2018-04-10 22:26:19

End at: 2018-04-10 22:26:49

Local clock offset: 1.697 ms

Remote clock offset: 2.121 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 157.069 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 157.665 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 153.721 ms

Loss rate: 0.00%

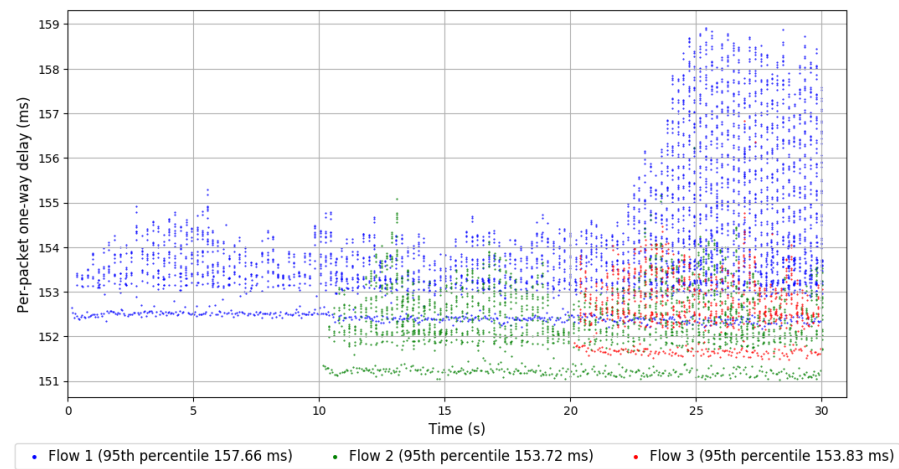
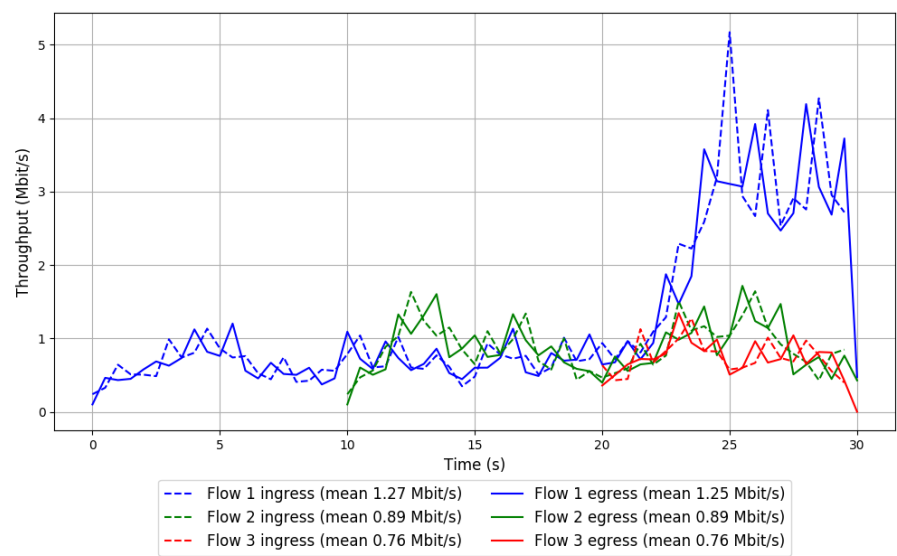
-- Flow 3:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 153.834 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 22:50:44

End at: 2018-04-10 22:51:14

Local clock offset: 1.605 ms

Remote clock offset: 2.601 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 161.967 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 157.806 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 162.803 ms

Loss rate: 0.93%

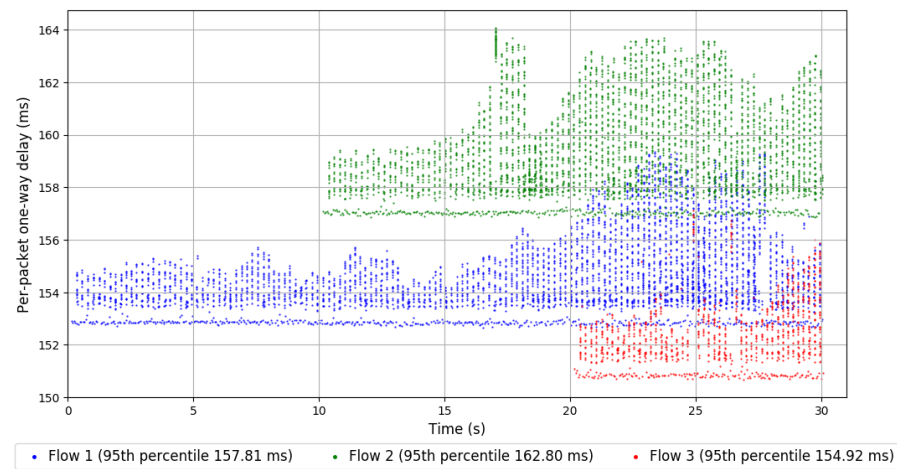
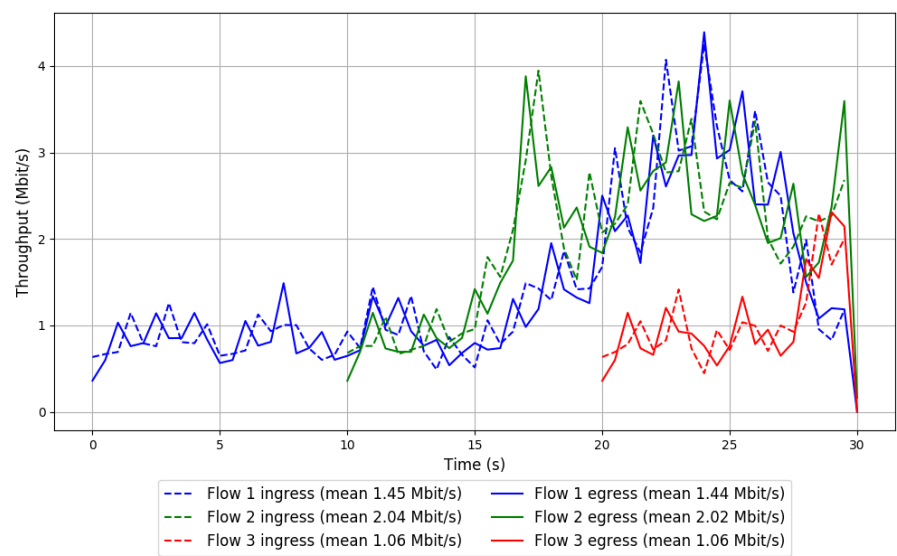
-- Flow 3:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 154.916 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-10 23:15:17

End at: 2018-04-10 23:15:47

Local clock offset: 1.895 ms

Remote clock offset: 2.611 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 157.761 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 153.736 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 154.463 ms

Loss rate: 0.00%

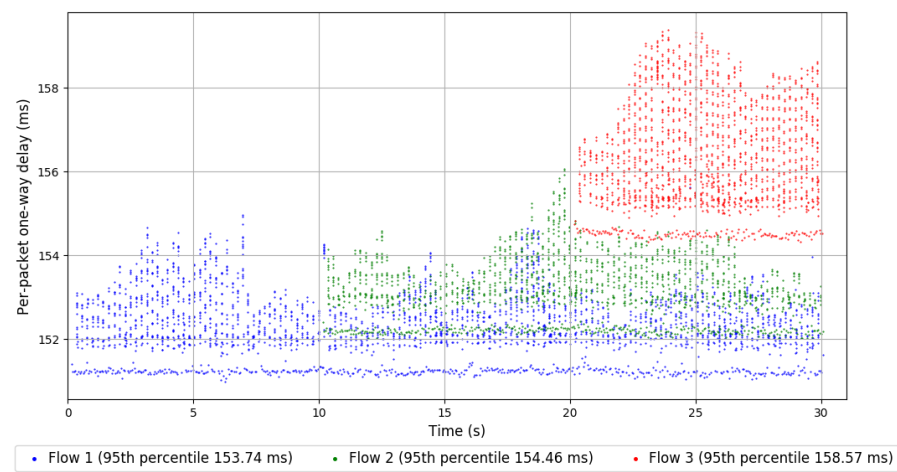
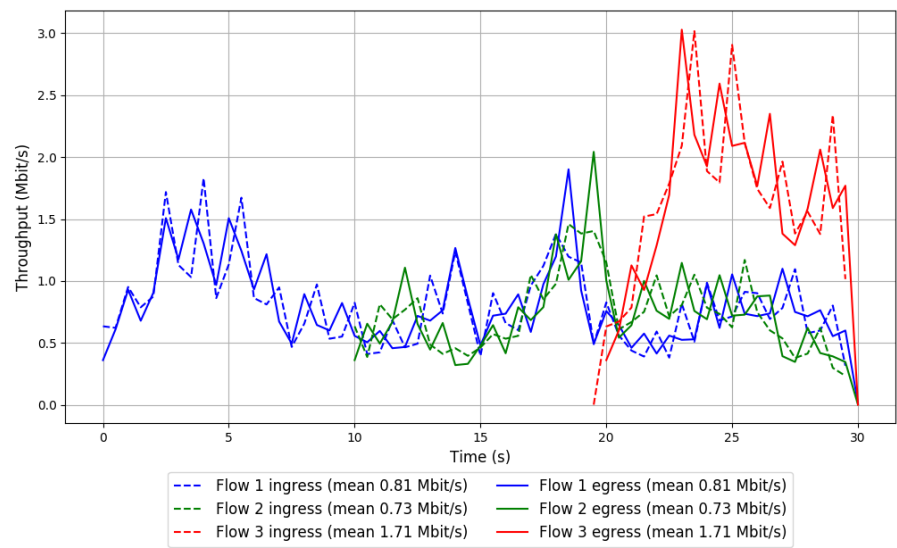
-- Flow 3:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 158.575 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-10 23:39:42

End at: 2018-04-10 23:40:12

Local clock offset: 1.885 ms

Remote clock offset: 2.318 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 161.216 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 155.035 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 161.939 ms

Loss rate: 0.43%

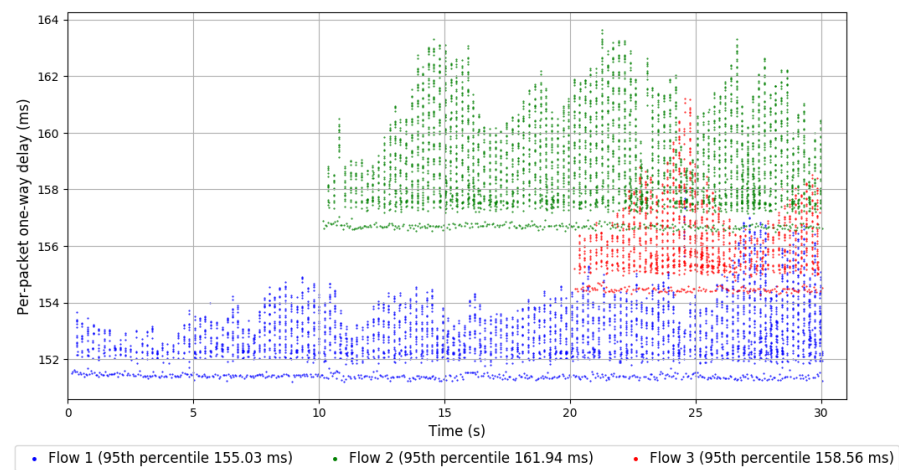
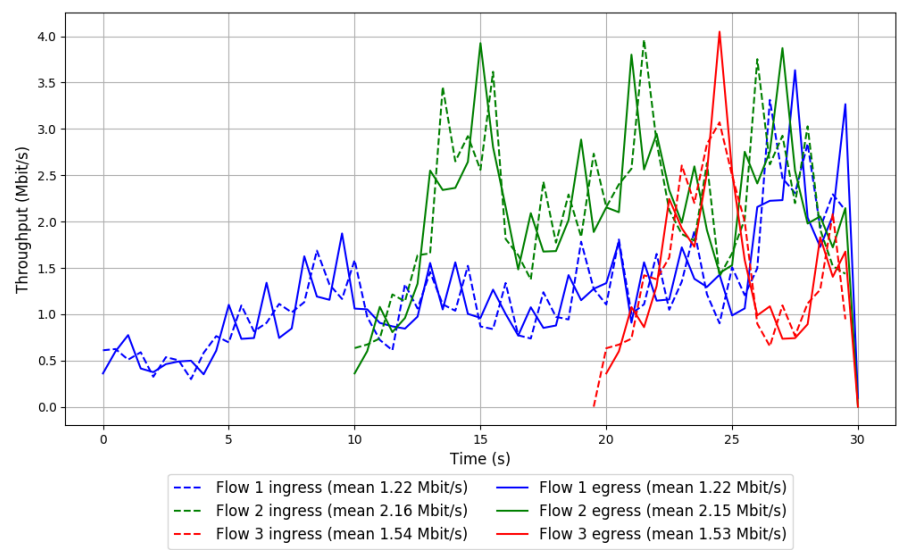
-- Flow 3:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 158.561 ms

Loss rate: 1.10%

Run 4: Report of Sprout — Data Link

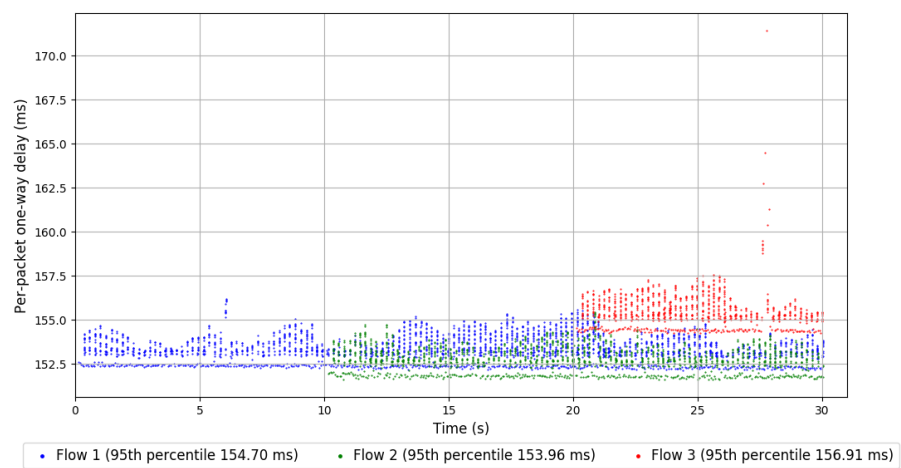
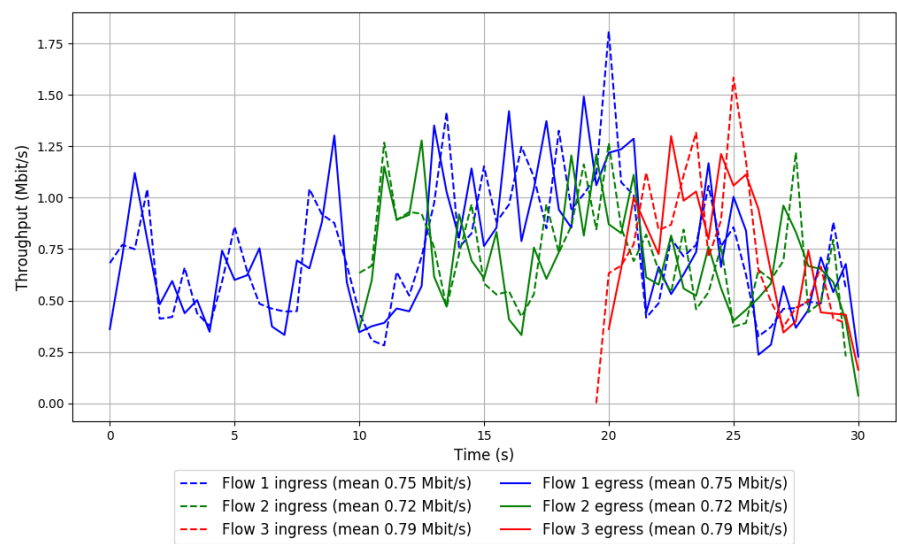


Run 5: Statistics of Sprout

Start at: 2018-04-11 00:04:05
End at: 2018-04-11 00:04:35
Local clock offset: 2.059 ms
Remote clock offset: 7.859 ms

```
# Below is generated by plot.py at 2018-04-11 02:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 155.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 154.702 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 153.955 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 156.915 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-11 00:28:37

End at: 2018-04-11 00:29:07

Local clock offset: 8.326 ms

Remote clock offset: 3.799 ms

Below is generated by plot.py at 2018-04-11 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 156.601 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 155.582 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 157.019 ms

Loss rate: 0.00%

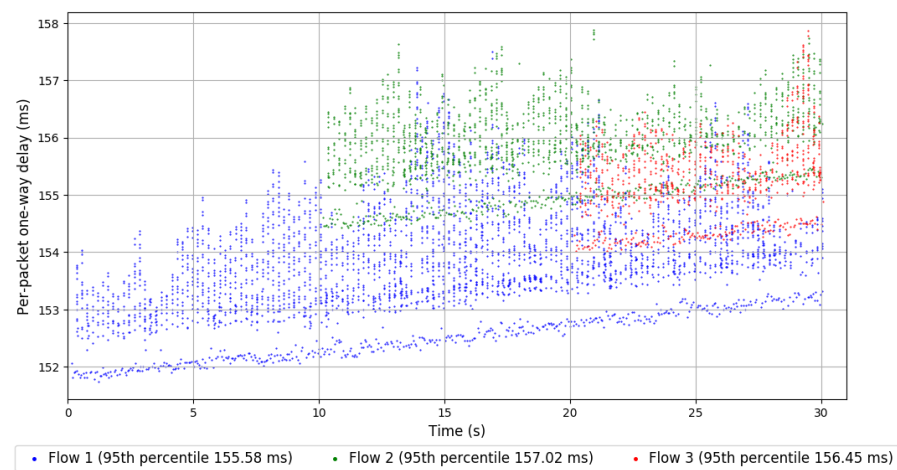
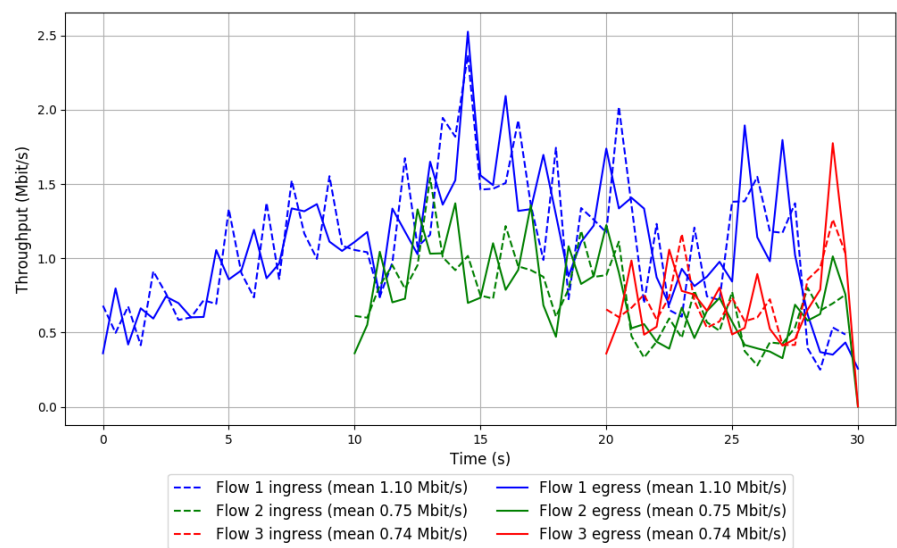
-- Flow 3:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 156.452 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

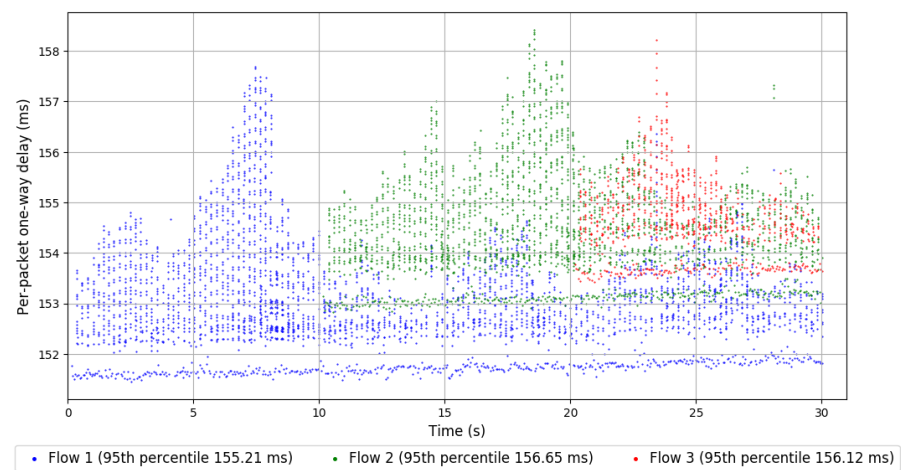
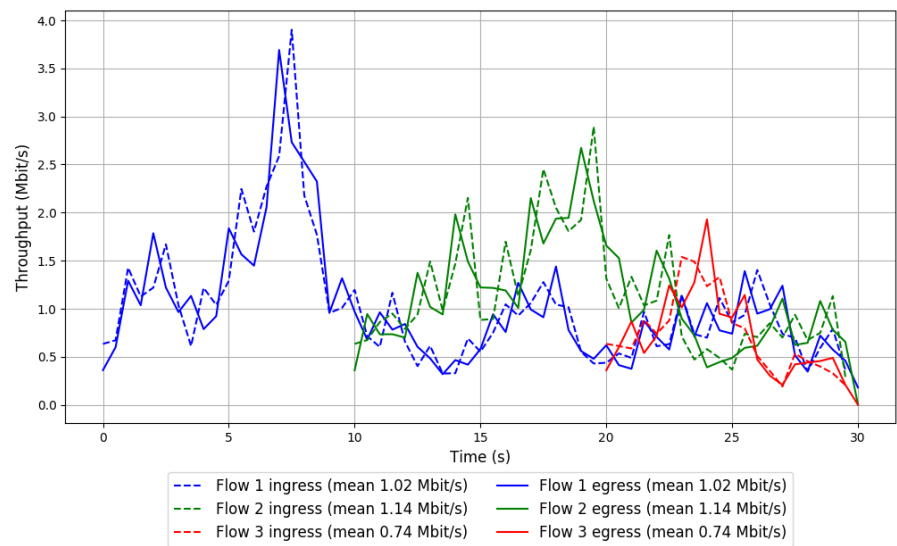


Run 7: Statistics of Sprout

Start at: 2018-04-11 00:53:15
End at: 2018-04-11 00:53:45
Local clock offset: 38.318 ms
Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-04-11 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 156.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 155.214 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 156.650 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 156.121 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

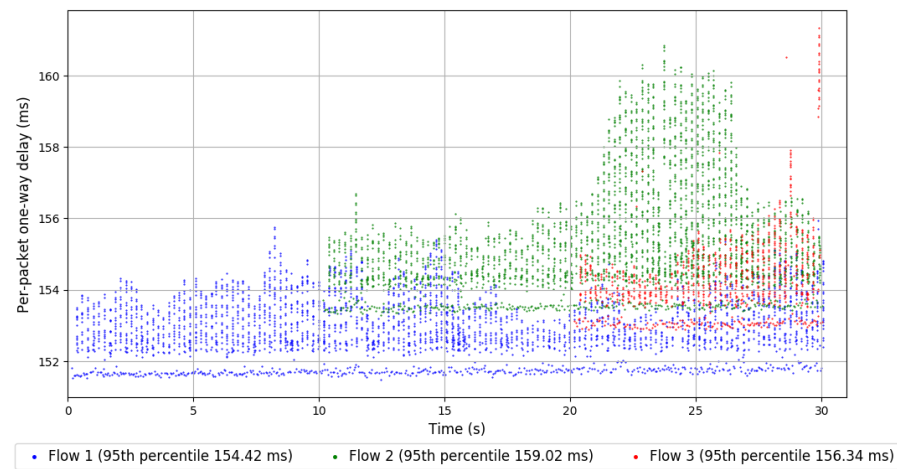
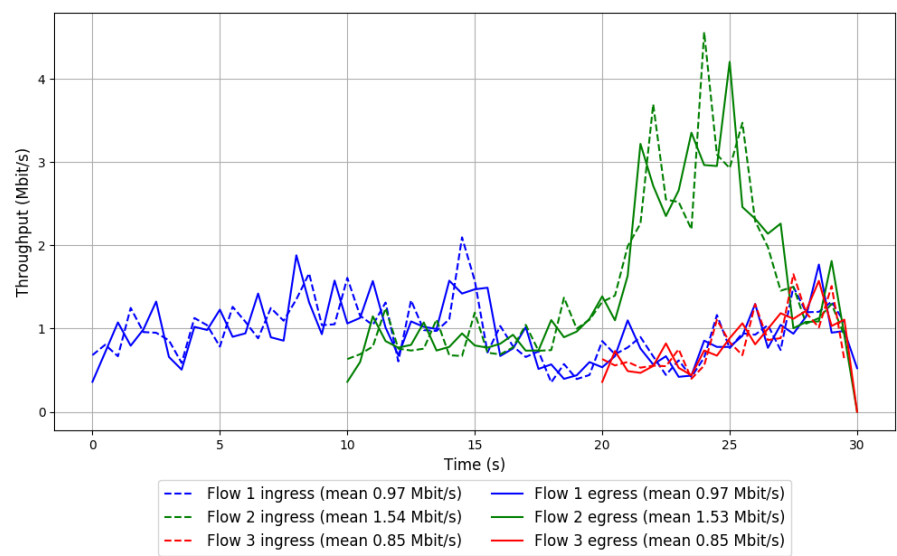


Run 8: Statistics of Sprout

Start at: 2018-04-11 01:17:47
End at: 2018-04-11 01:18:17
Local clock offset: 50.552 ms
Remote clock offset: 0.269 ms

```
# Below is generated by plot.py at 2018-04-11 02:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 158.142 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 154.422 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 159.017 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 156.341 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

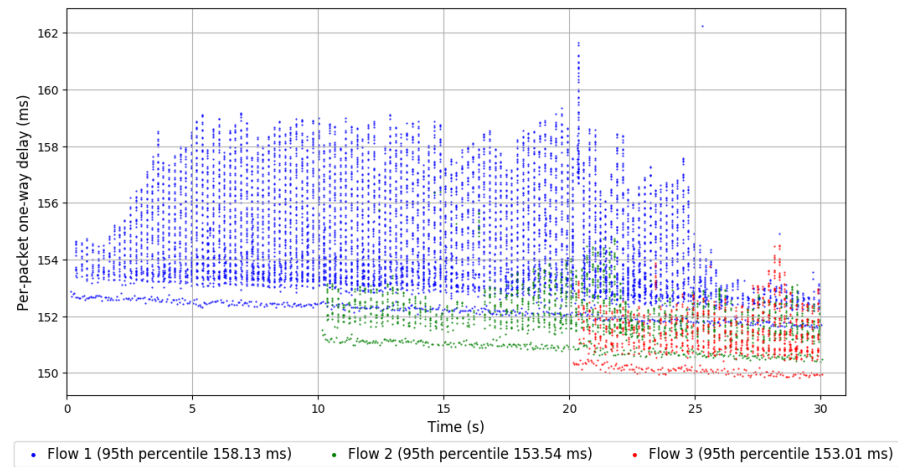
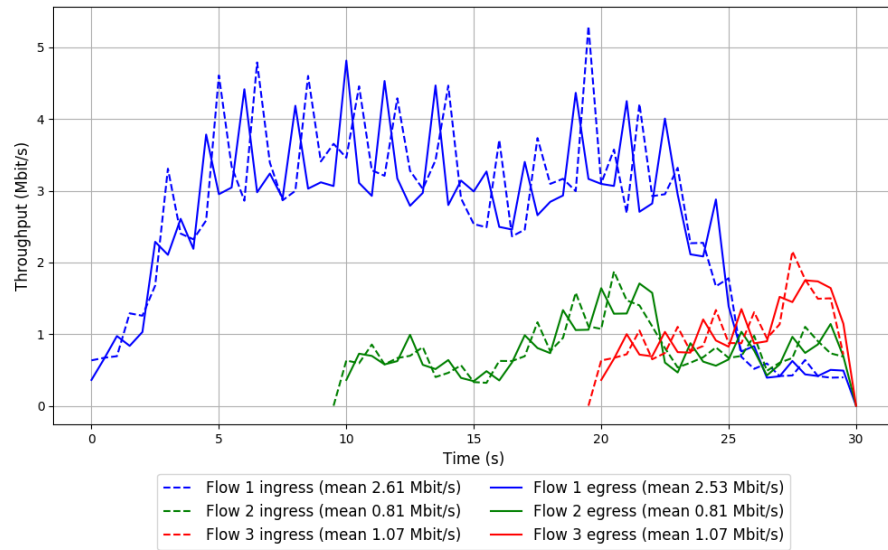


Run 9: Statistics of Sprout

Start at: 2018-04-11 01:42:29
End at: 2018-04-11 01:42:59
Local clock offset: 40.245 ms
Remote clock offset: 11.837 ms

Below is generated by plot.py at 2018-04-11 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 157.875 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 158.130 ms
Loss rate: 3.16%
-- Flow 2:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 153.536 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 153.007 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

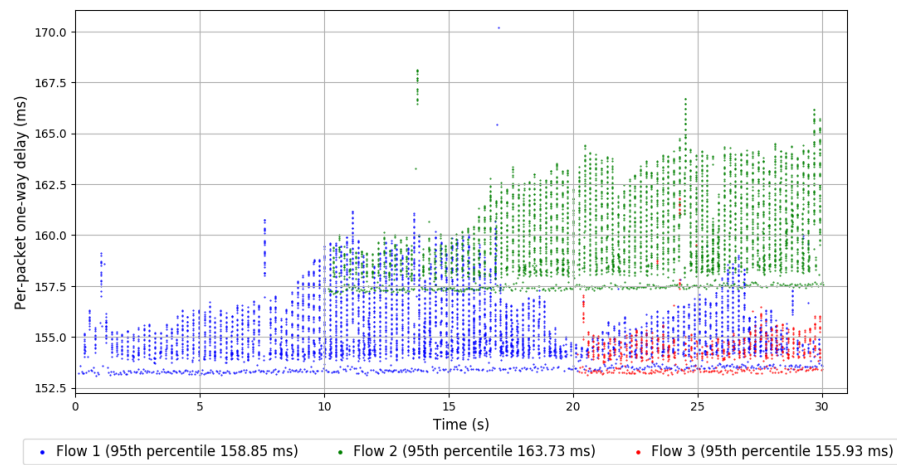
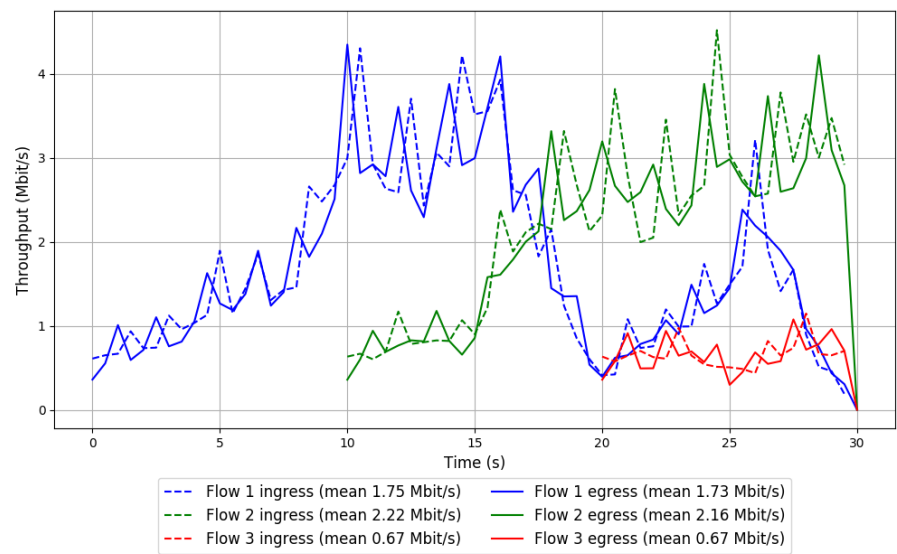


Run 10: Statistics of Sprout

Start at: 2018-04-11 02:06:50
End at: 2018-04-11 02:07:20
Local clock offset: 24.26 ms
Remote clock offset: 10.837 ms

```
# Below is generated by plot.py at 2018-04-11 02:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 162.945 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 158.851 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 163.729 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 155.929 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

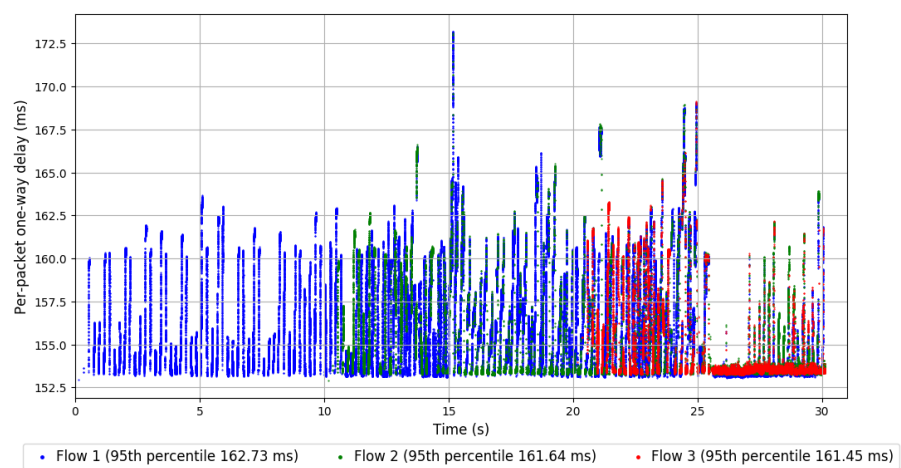
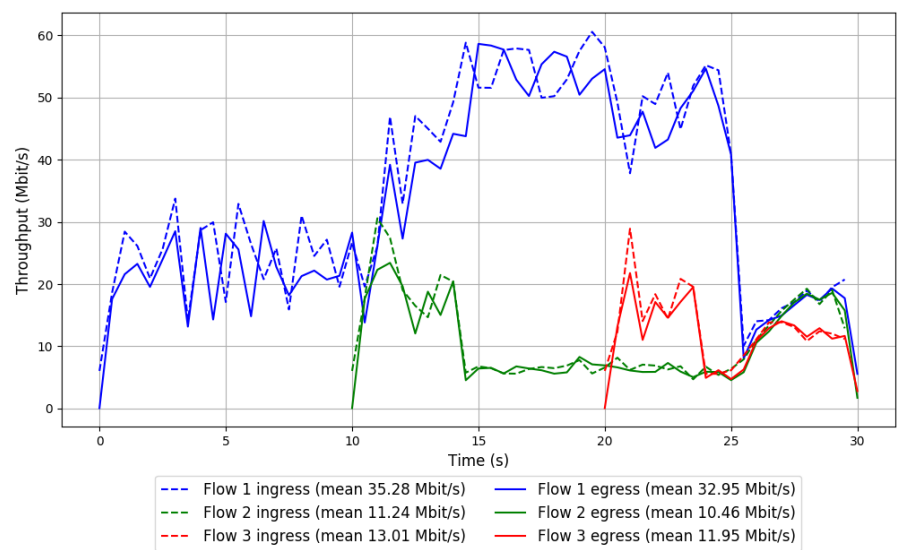


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 22:28:54
End at: 2018-04-10 22:29:24
Local clock offset: 1.438 ms
Remote clock offset: 2.596 ms

# Below is generated by plot.py at 2018-04-11 02:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 162.470 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 162.728 ms
Loss rate: 6.58%
-- Flow 2:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 161.640 ms
Loss rate: 6.95%
-- Flow 3:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 161.447 ms
Loss rate: 8.11%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 22:53:20

End at: 2018-04-10 22:53:50

Local clock offset: 1.514 ms

Remote clock offset: 2.566 ms

Below is generated by plot.py at 2018-04-11 02:52:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.72 Mbit/s

95th percentile per-packet one-way delay: 163.270 ms

Loss rate: 8.37%

-- Flow 1:

Average throughput: 19.43 Mbit/s

95th percentile per-packet one-way delay: 163.636 ms

Loss rate: 9.03%

-- Flow 2:

Average throughput: 11.61 Mbit/s

95th percentile per-packet one-way delay: 161.588 ms

Loss rate: 5.54%

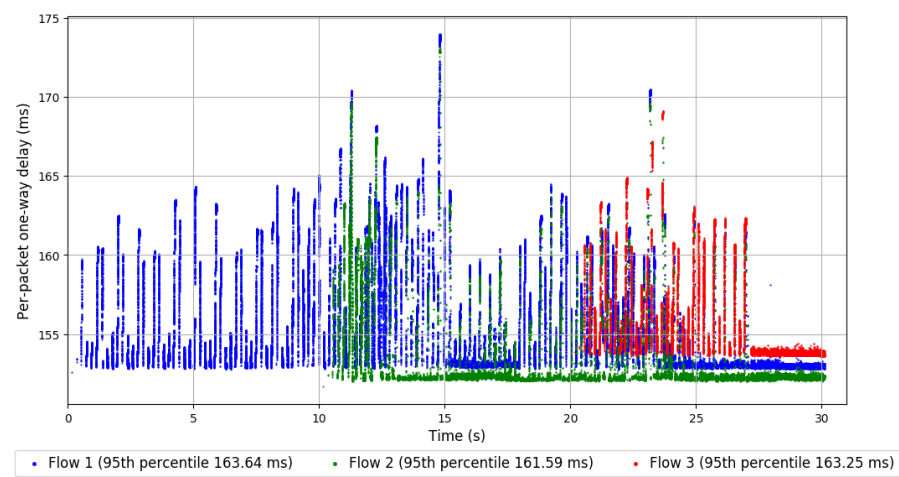
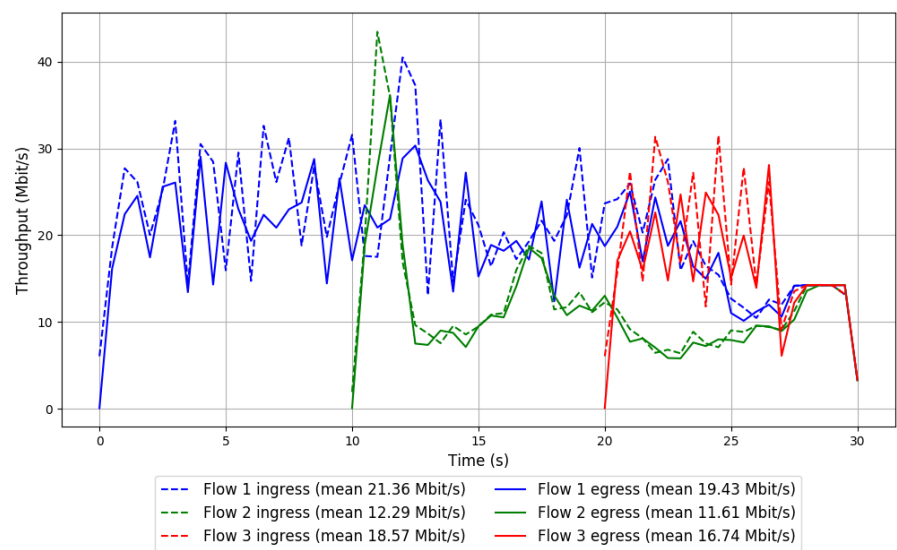
-- Flow 3:

Average throughput: 16.74 Mbit/s

95th percentile per-packet one-way delay: 163.254 ms

Loss rate: 9.86%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 23:17:52

End at: 2018-04-10 23:18:22

Local clock offset: 1.907 ms

Remote clock offset: 2.535 ms

Below is generated by plot.py at 2018-04-11 02:52:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.59 Mbit/s

95th percentile per-packet one-way delay: 161.146 ms

Loss rate: 10.10%

-- Flow 1:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 161.411 ms

Loss rate: 11.11%

-- Flow 2:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 159.888 ms

Loss rate: 8.51%

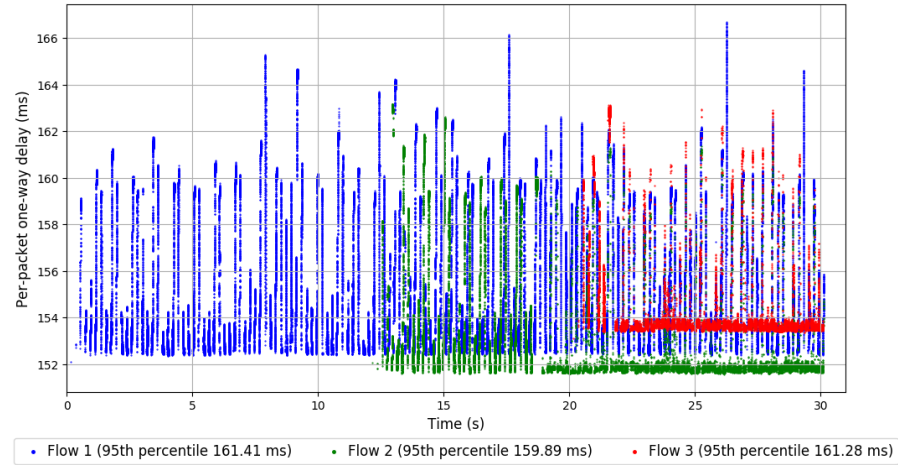
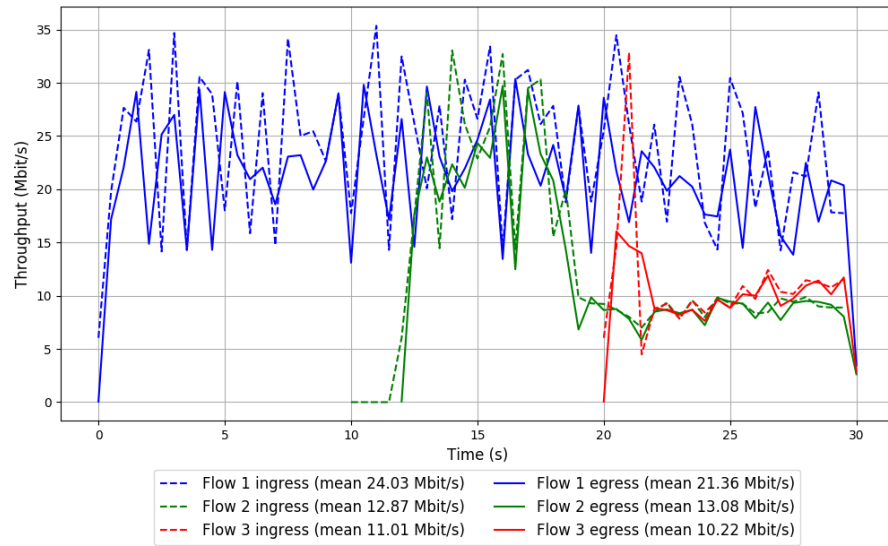
-- Flow 3:

Average throughput: 10.22 Mbit/s

95th percentile per-packet one-way delay: 161.281 ms

Loss rate: 7.16%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 23:42:16

End at: 2018-04-10 23:42:46

Local clock offset: 1.996 ms

Remote clock offset: 2.482 ms

Below is generated by plot.py at 2018-04-11 02:52:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.97 Mbit/s

95th percentile per-packet one-way delay: 168.799 ms

Loss rate: 7.31%

-- Flow 1:

Average throughput: 16.08 Mbit/s

95th percentile per-packet one-way delay: 164.708 ms

Loss rate: 9.51%

-- Flow 2:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 169.568 ms

Loss rate: 5.89%

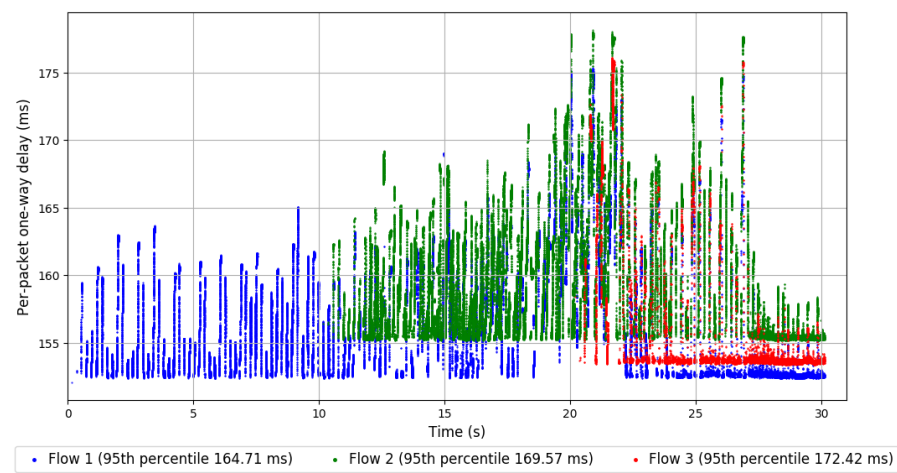
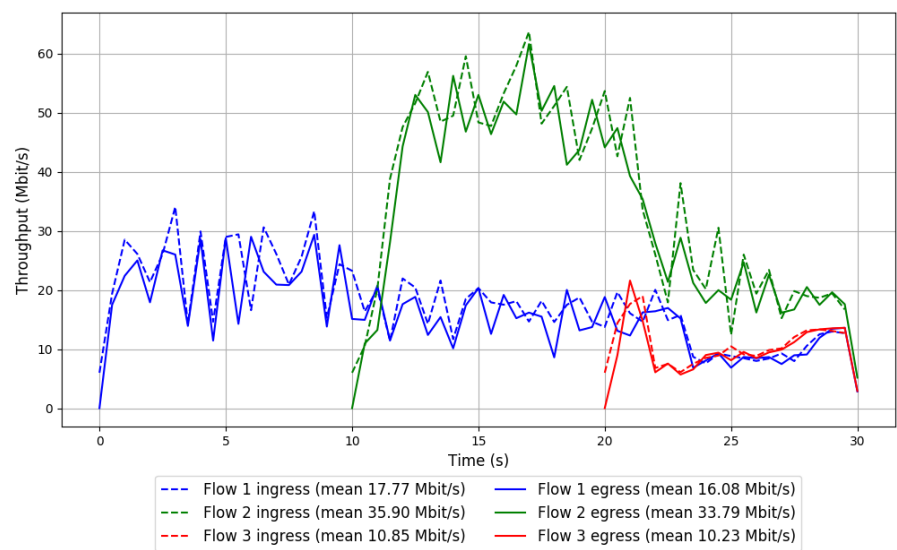
-- Flow 3:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 172.418 ms

Loss rate: 5.78%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-11 00:06:40

End at: 2018-04-11 00:07:10

Local clock offset: 2.15 ms

Remote clock offset: 8.278 ms

Below is generated by plot.py at 2018-04-11 02:52:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.60 Mbit/s

95th percentile per-packet one-way delay: 164.936 ms

Loss rate: 8.19%

-- Flow 1:

Average throughput: 21.62 Mbit/s

95th percentile per-packet one-way delay: 165.183 ms

Loss rate: 7.25%

-- Flow 2:

Average throughput: 28.63 Mbit/s

95th percentile per-packet one-way delay: 165.013 ms

Loss rate: 7.82%

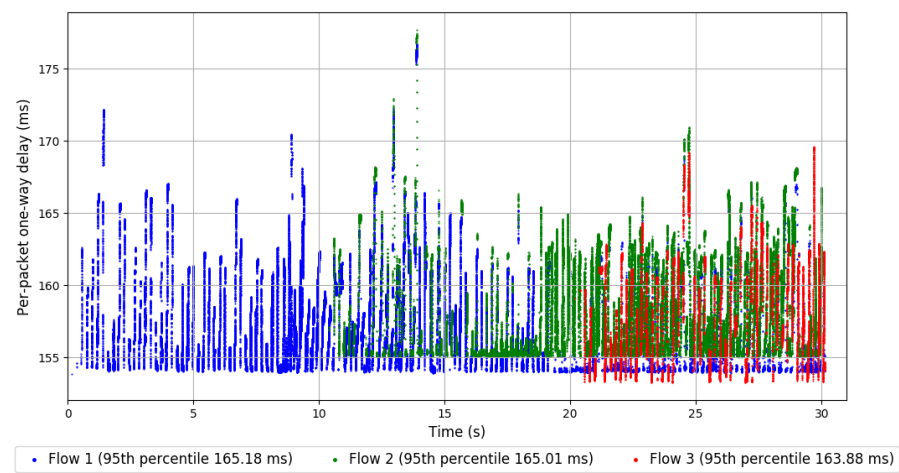
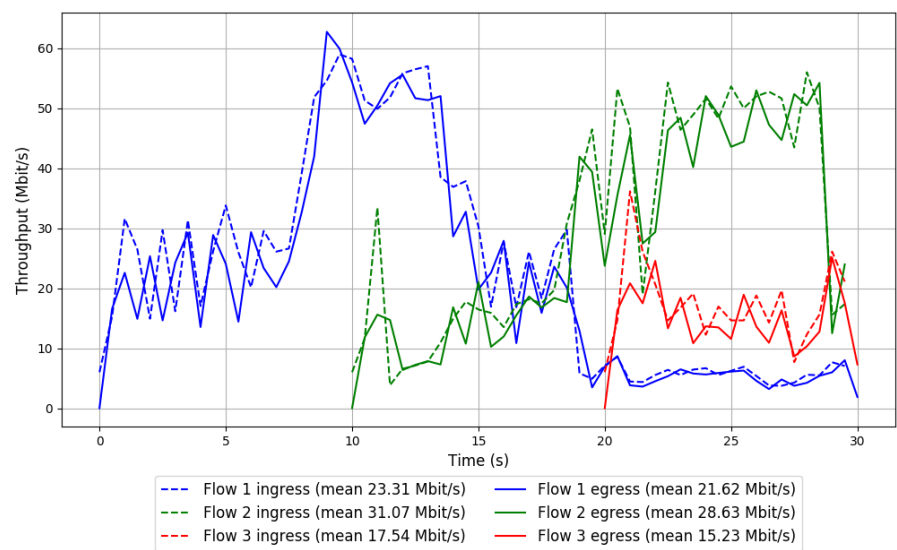
-- Flow 3:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 163.878 ms

Loss rate: 13.24%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-11 00:31:12

End at: 2018-04-11 00:31:42

Local clock offset: 14.643 ms

Remote clock offset: 2.777 ms

Below is generated by plot.py at 2018-04-11 02:52:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.15 Mbit/s

95th percentile per-packet one-way delay: 166.383 ms

Loss rate: 9.89%

-- Flow 1:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 165.191 ms

Loss rate: 10.30%

-- Flow 2:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 166.551 ms

Loss rate: 9.28%

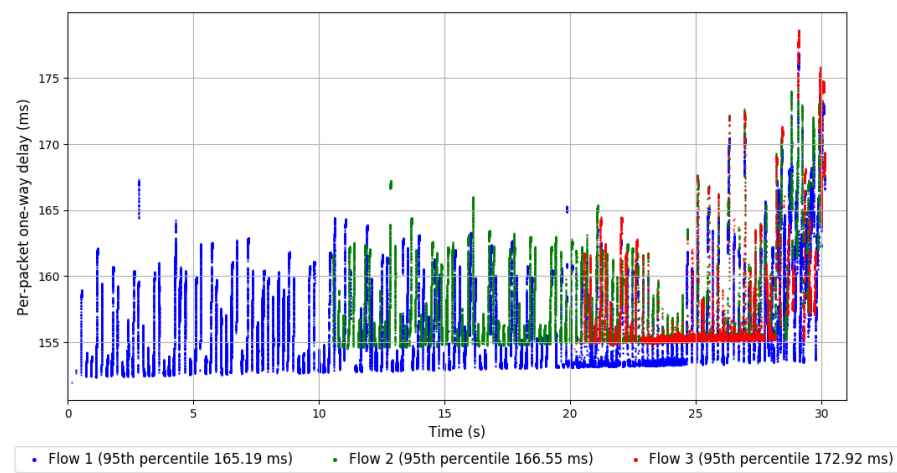
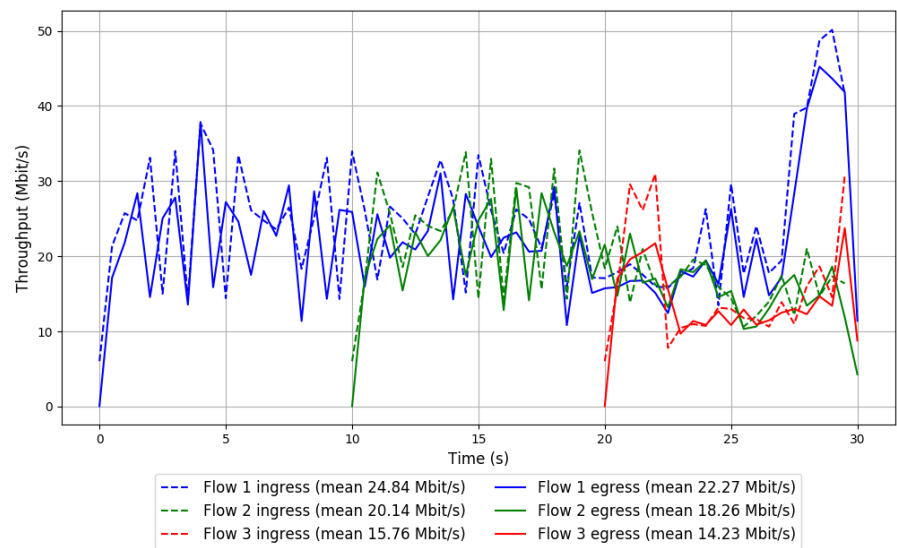
-- Flow 3:

Average throughput: 14.23 Mbit/s

95th percentile per-packet one-way delay: 172.916 ms

Loss rate: 9.54%

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

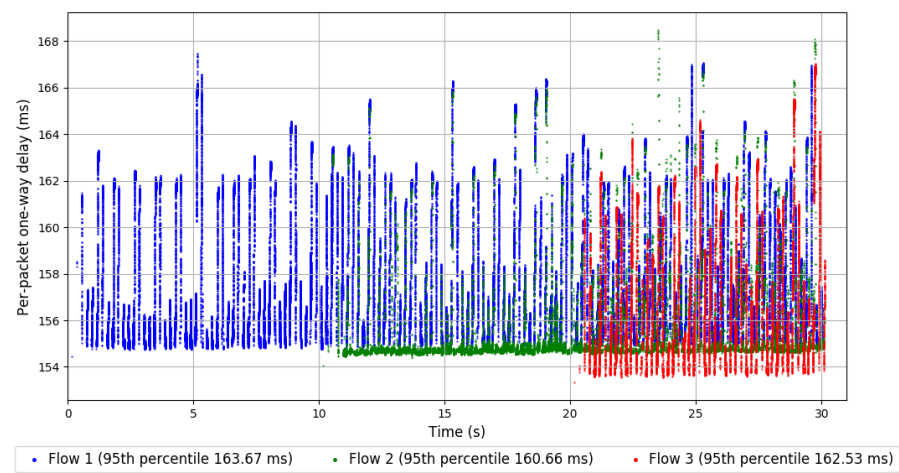
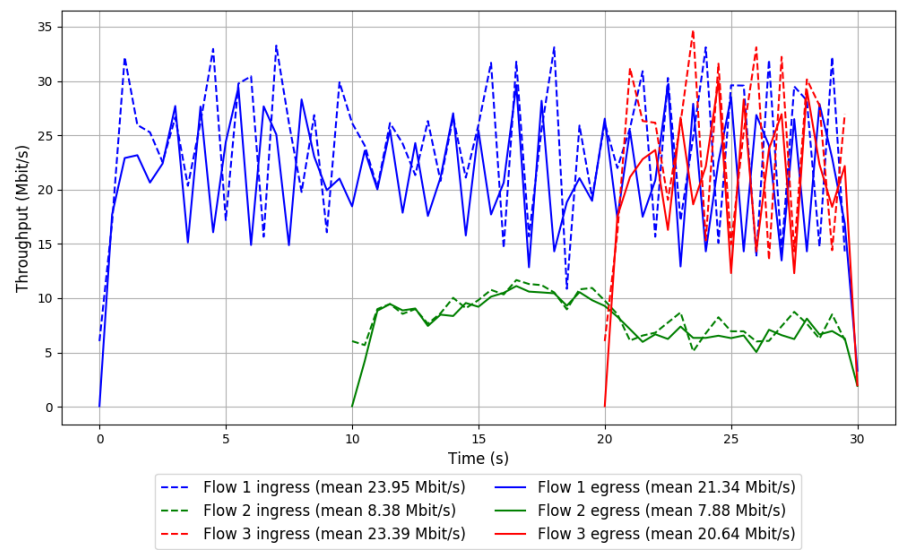


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-11 00:55:50
End at: 2018-04-11 00:56:20
Local clock offset: 39.637 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-04-11 02:52:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: 163.307 ms
Loss rate: 10.32%
-- Flow 1:
Average throughput: 21.34 Mbit/s
95th percentile per-packet one-way delay: 163.668 ms
Loss rate: 10.89%
-- Flow 2:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 160.659 ms
Loss rate: 5.97%
-- Flow 3:
Average throughput: 20.64 Mbit/s
95th percentile per-packet one-way delay: 162.534 ms
Loss rate: 11.69%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-11 01:20:22

End at: 2018-04-11 01:20:52

Local clock offset: 51.861 ms

Remote clock offset: 0.296 ms

Below is generated by plot.py at 2018-04-11 02:52:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 171.065 ms

Loss rate: 4.31%

-- Flow 1:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 169.921 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 12.38 Mbit/s

95th percentile per-packet one-way delay: 174.352 ms

Loss rate: 8.47%

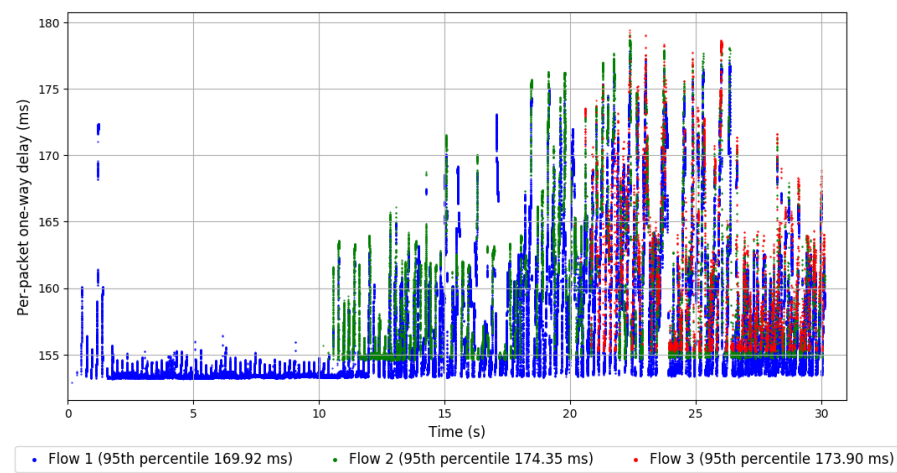
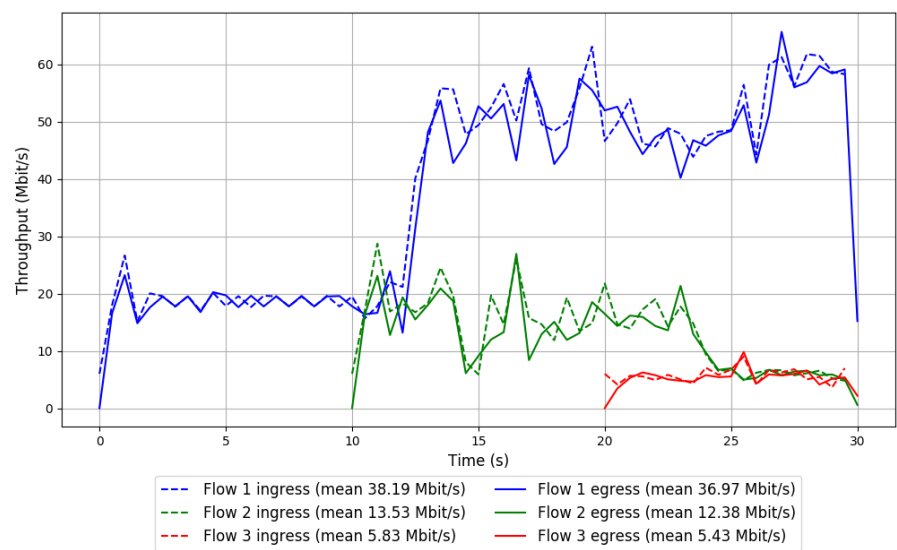
-- Flow 3:

Average throughput: 5.43 Mbit/s

95th percentile per-packet one-way delay: 173.898 ms

Loss rate: 6.89%

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

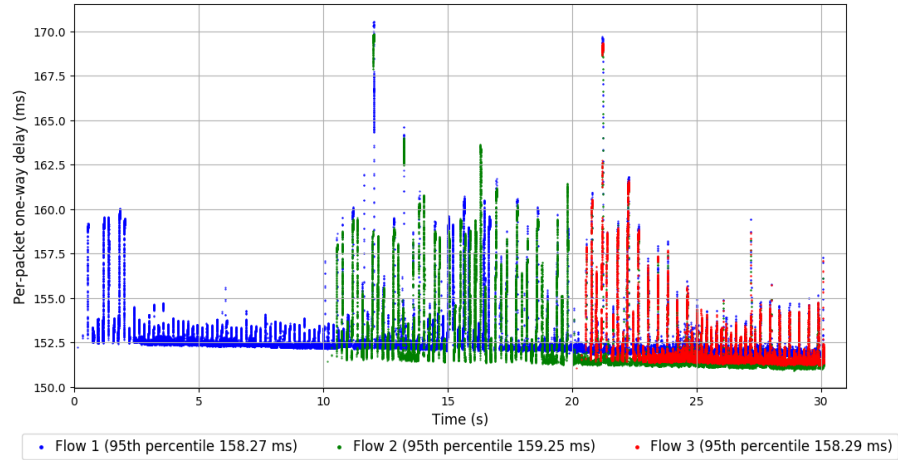
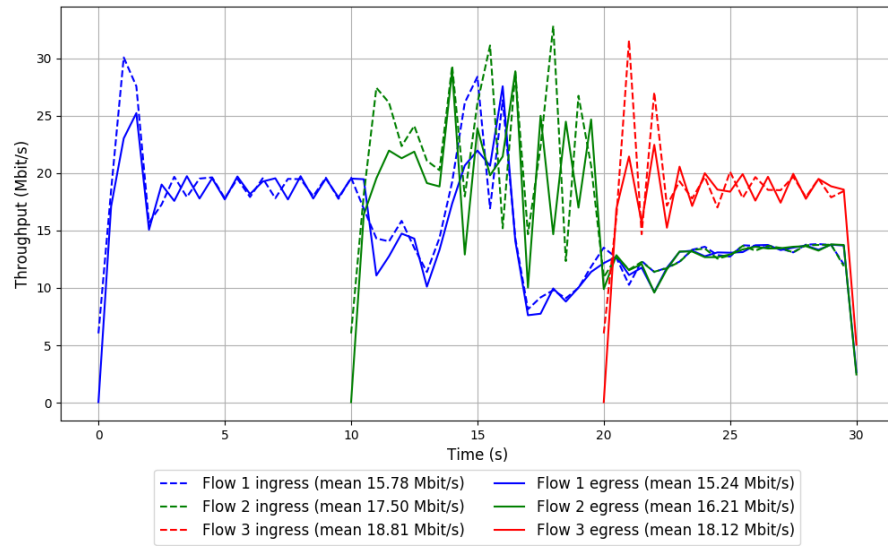


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-11 01:45:05
End at: 2018-04-11 01:45:35
Local clock offset: 36.219 ms
Remote clock offset: 12.985 ms

Below is generated by plot.py at 2018-04-11 02:53:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 158.853 ms
Loss rate: 4.84%
-- Flow 1:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 158.271 ms
Loss rate: 3.42%
-- Flow 2:
Average throughput: 16.21 Mbit/s
95th percentile per-packet one-way delay: 159.248 ms
Loss rate: 7.37%
-- Flow 3:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 158.294 ms
Loss rate: 3.68%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-11 02:09:25

End at: 2018-04-11 02:09:55

Local clock offset: 23.365 ms

Remote clock offset: 7.891 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 168.328 ms

Loss rate: 8.46%

-- Flow 1:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 164.935 ms

Loss rate: 8.36%

-- Flow 2:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 169.859 ms

Loss rate: 8.87%

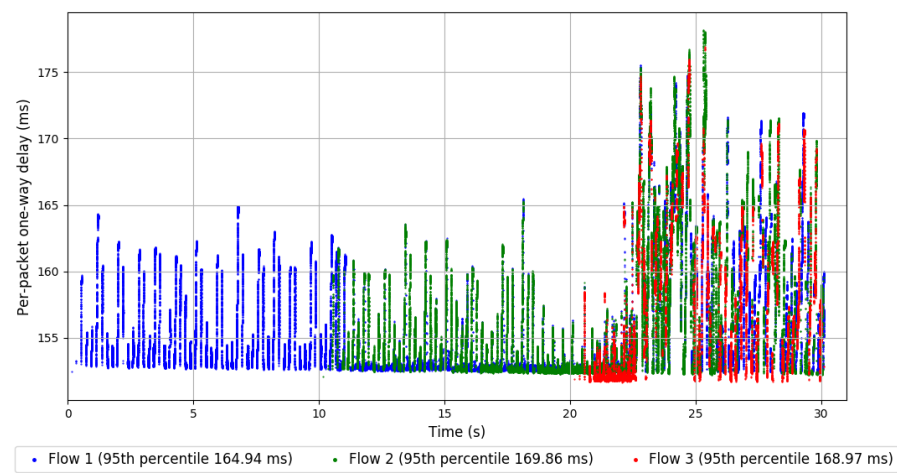
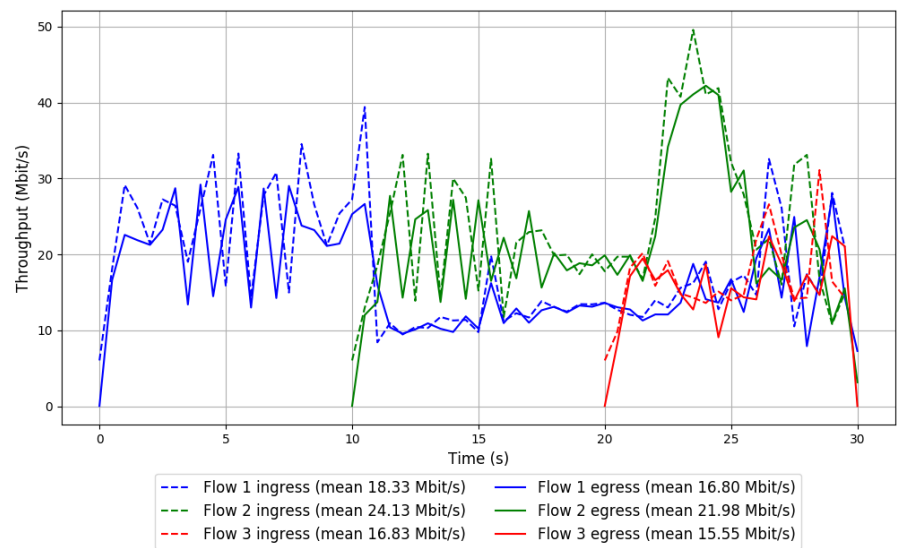
-- Flow 3:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 168.971 ms

Loss rate: 7.62%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 22:27:36

End at: 2018-04-10 22:28:06

Local clock offset: 1.564 ms

Remote clock offset: 2.306 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 156.009 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 154.459 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 5.44 Mbit/s

95th percentile per-packet one-way delay: 156.294 ms

Loss rate: 0.42%

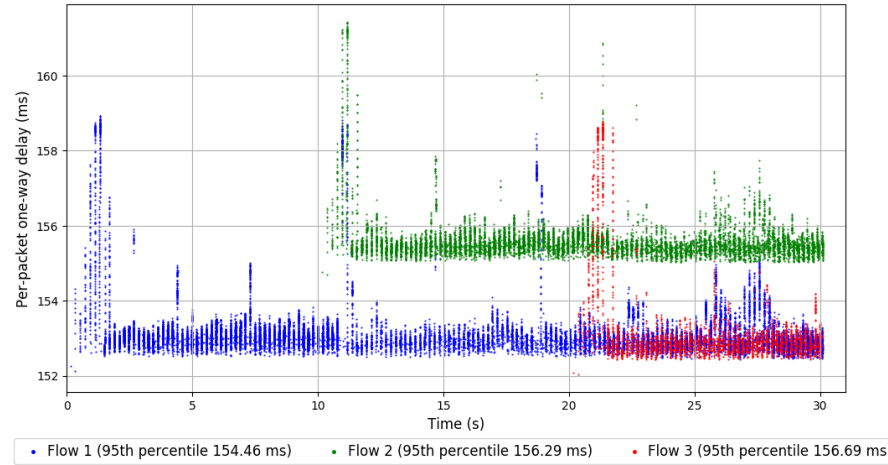
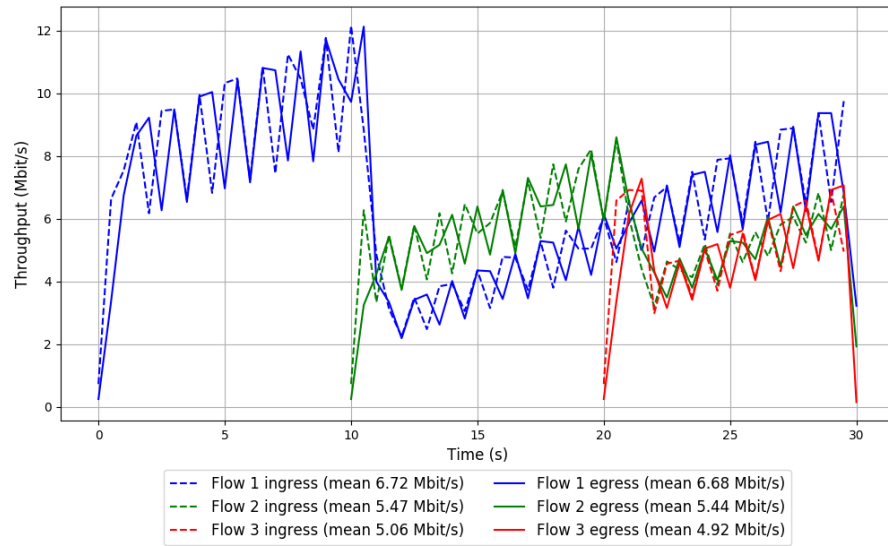
-- Flow 3:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 156.691 ms

Loss rate: 2.63%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 22:52:01

End at: 2018-04-10 22:52:31

Local clock offset: 1.572 ms

Remote clock offset: 2.653 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.60 Mbit/s

95th percentile per-packet one-way delay: 154.127 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 154.123 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 10.45 Mbit/s

95th percentile per-packet one-way delay: 153.879 ms

Loss rate: 0.49%

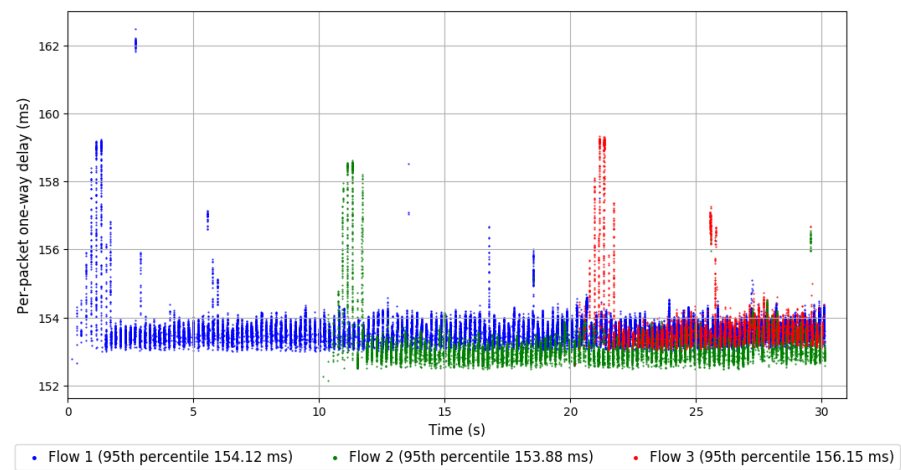
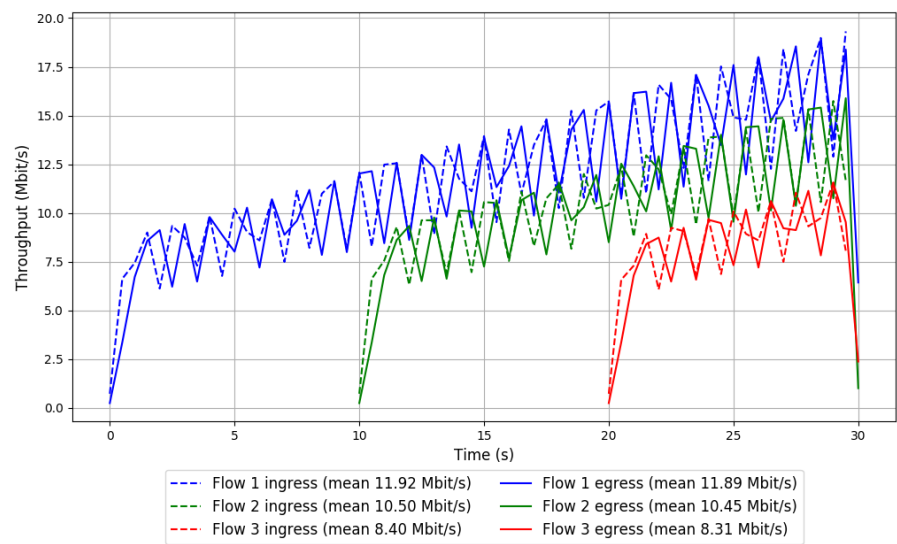
-- Flow 3:

Average throughput: 8.31 Mbit/s

95th percentile per-packet one-way delay: 156.151 ms

Loss rate: 1.04%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 23:16:34

End at: 2018-04-10 23:17:04

Local clock offset: 1.776 ms

Remote clock offset: 2.566 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.59 Mbit/s

95th percentile per-packet one-way delay: 156.115 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 154.985 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 10.09 Mbit/s

95th percentile per-packet one-way delay: 156.497 ms

Loss rate: 0.48%

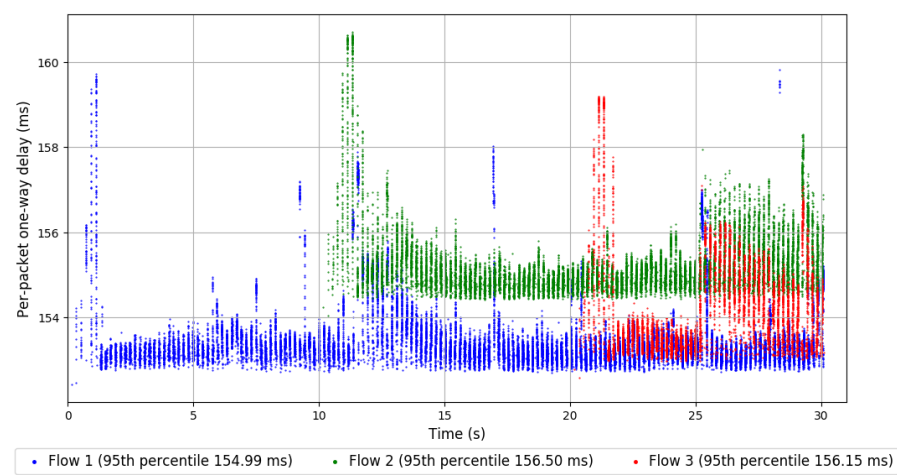
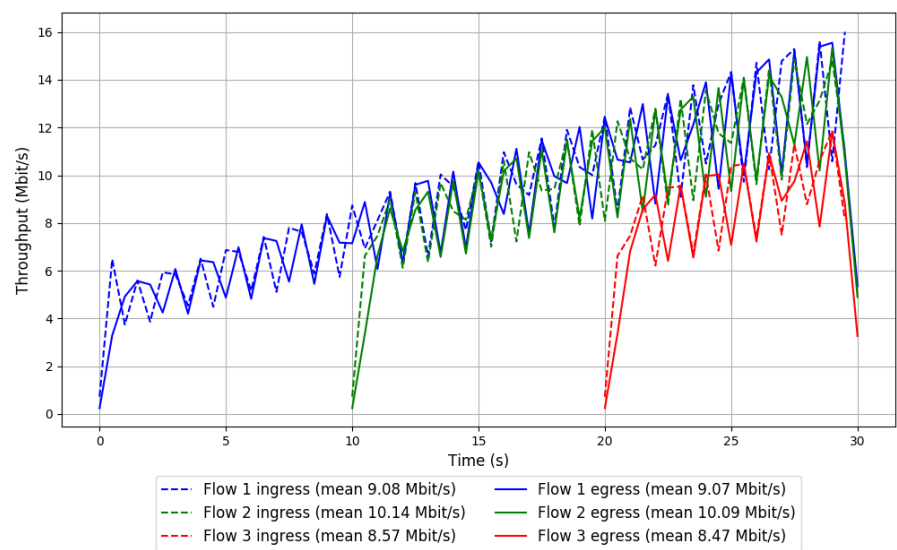
-- Flow 3:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 156.153 ms

Loss rate: 1.11%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 23:40:59

End at: 2018-04-10 23:41:29

Local clock offset: 1.842 ms

Remote clock offset: 2.381 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 158.787 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 155.125 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 160.934 ms

Loss rate: 1.12%

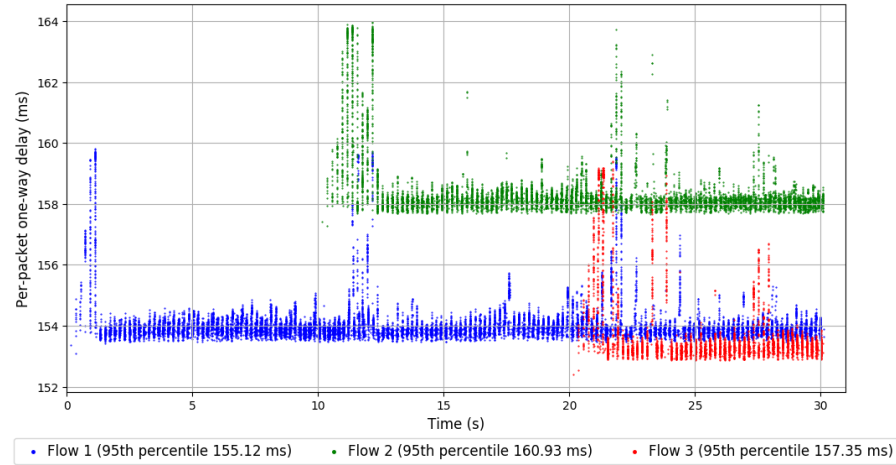
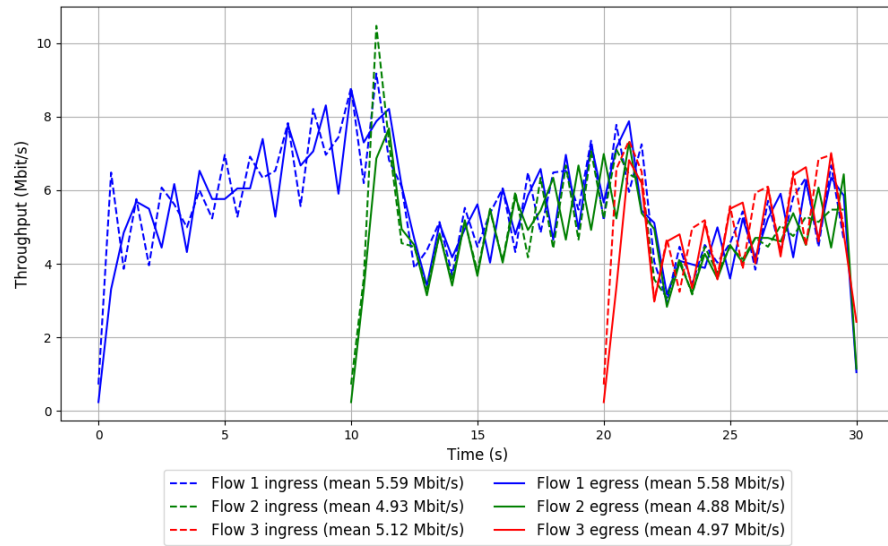
-- Flow 3:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 157.354 ms

Loss rate: 3.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-11 00:05:22

End at: 2018-04-11 00:05:52

Local clock offset: 1.895 ms

Remote clock offset: 7.985 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.87 Mbit/s

95th percentile per-packet one-way delay: 154.959 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 154.112 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 155.573 ms

Loss rate: 0.49%

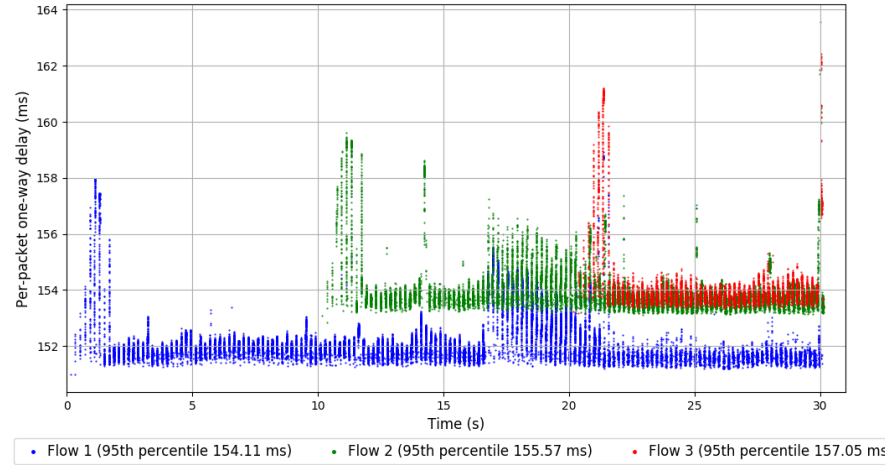
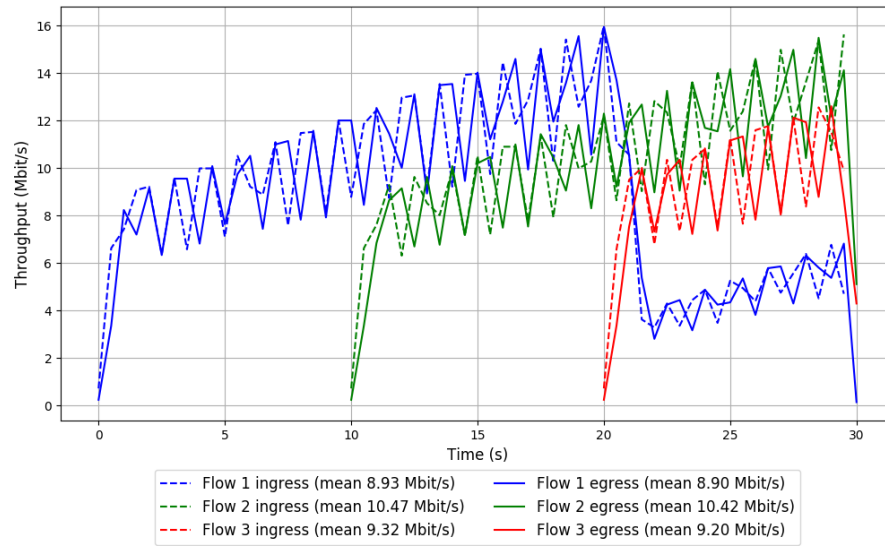
-- Flow 3:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 157.048 ms

Loss rate: 1.27%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-11 00:29:54

End at: 2018-04-11 00:30:24

Local clock offset: 11.218 ms

Remote clock offset: 3.268 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.71 Mbit/s

95th percentile per-packet one-way delay: 158.039 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 157.053 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 10.12 Mbit/s

95th percentile per-packet one-way delay: 158.103 ms

Loss rate: 0.47%

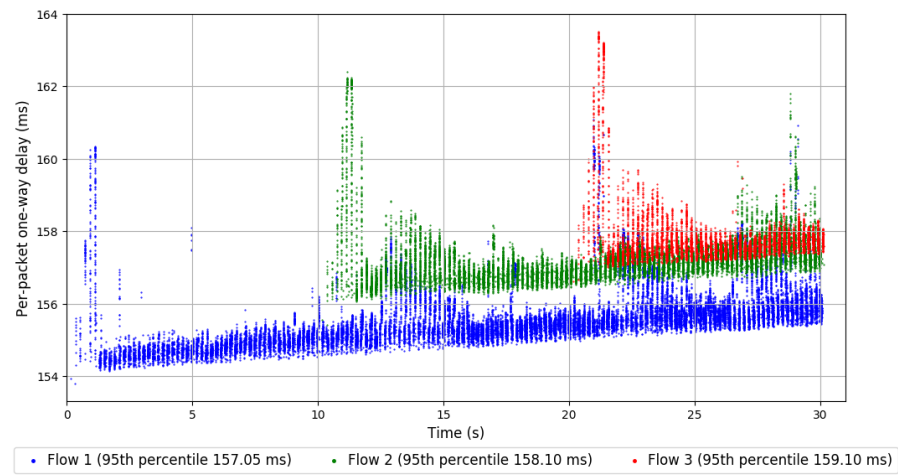
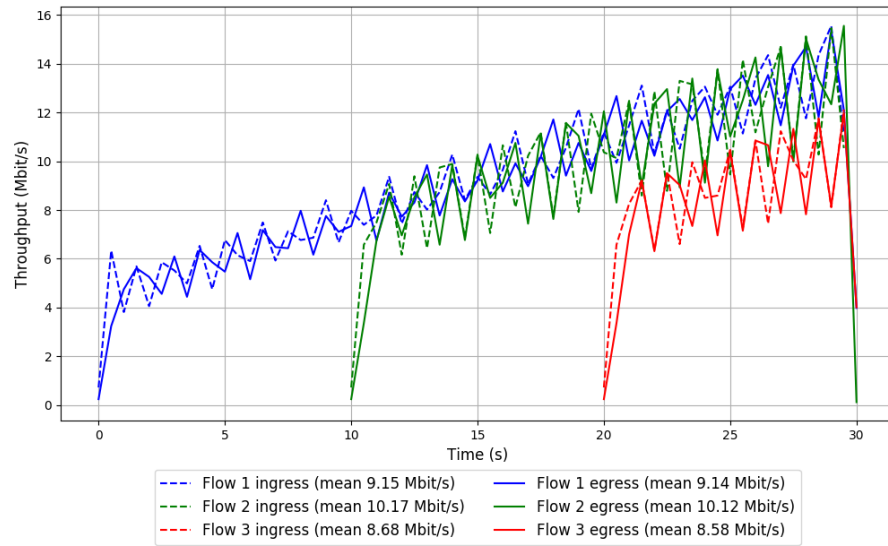
-- Flow 3:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 159.096 ms

Loss rate: 1.08%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-11 00:54:32

End at: 2018-04-11 00:55:02

Local clock offset: 38.845 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 155.081 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 11.81 Mbit/s

95th percentile per-packet one-way delay: 155.066 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 154.599 ms

Loss rate: 0.72%

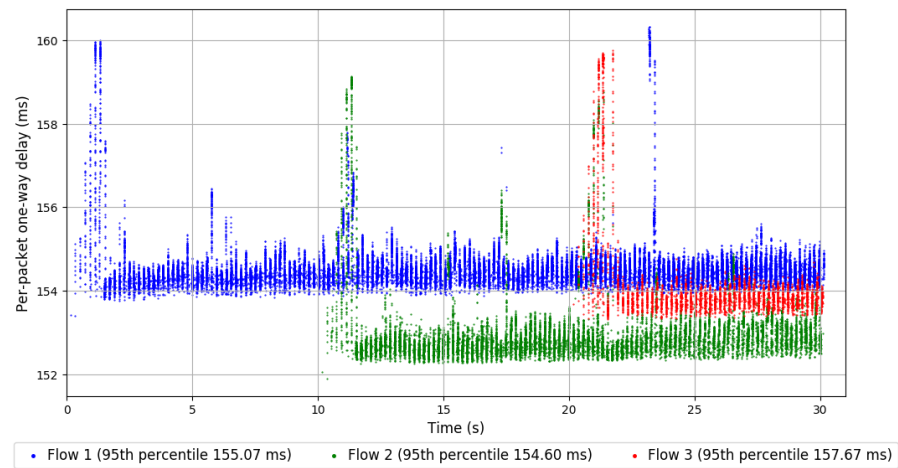
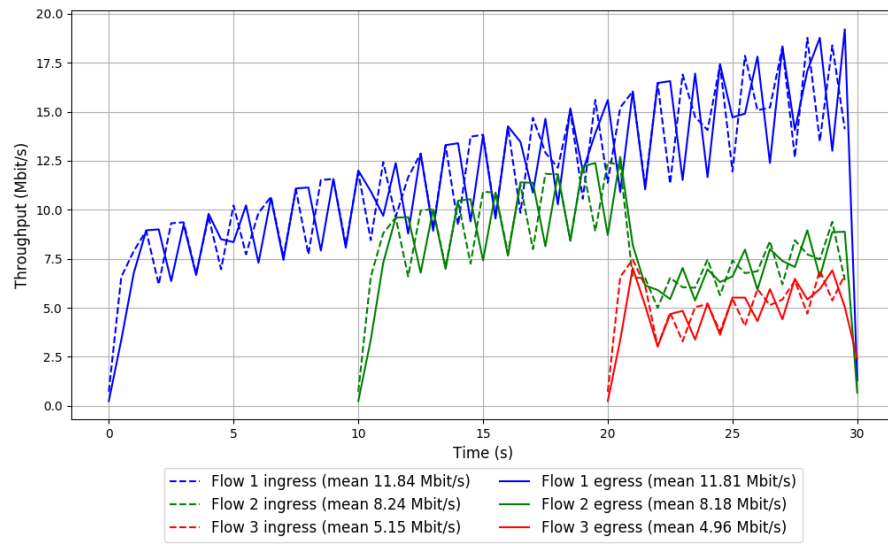
-- Flow 3:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 157.670 ms

Loss rate: 3.55%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-11 01:19:04

End at: 2018-04-11 01:19:34

Local clock offset: 51.254 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.38 Mbit/s

95th percentile per-packet one-way delay: 154.919 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 155.282 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 9.62 Mbit/s

95th percentile per-packet one-way delay: 154.969 ms

Loss rate: 0.43%

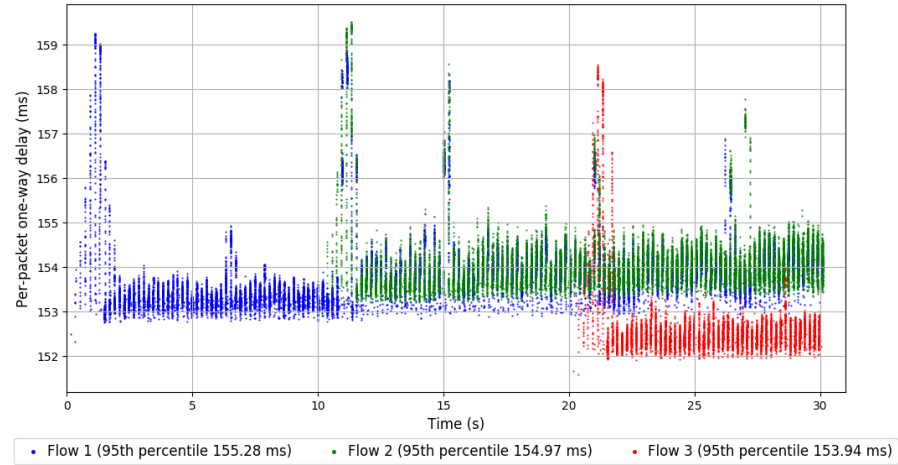
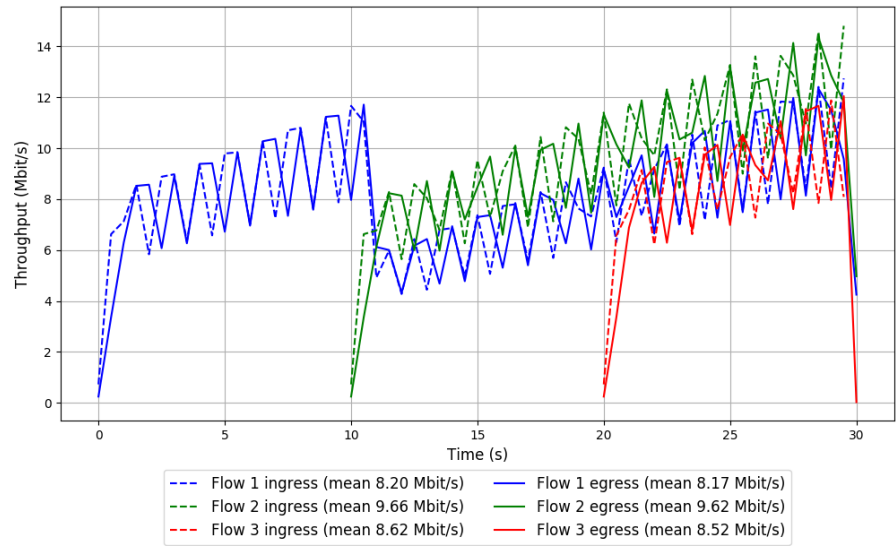
-- Flow 3:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 153.937 ms

Loss rate: 1.07%

Run 8: Report of TCP Vegas — Data Link

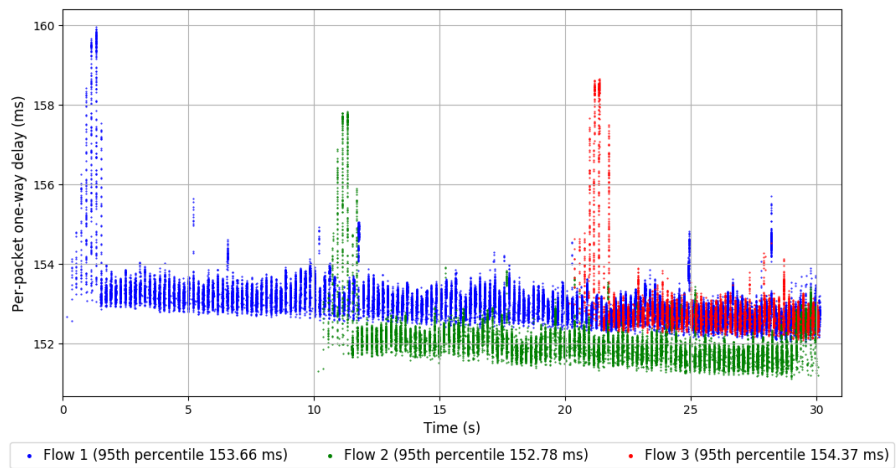
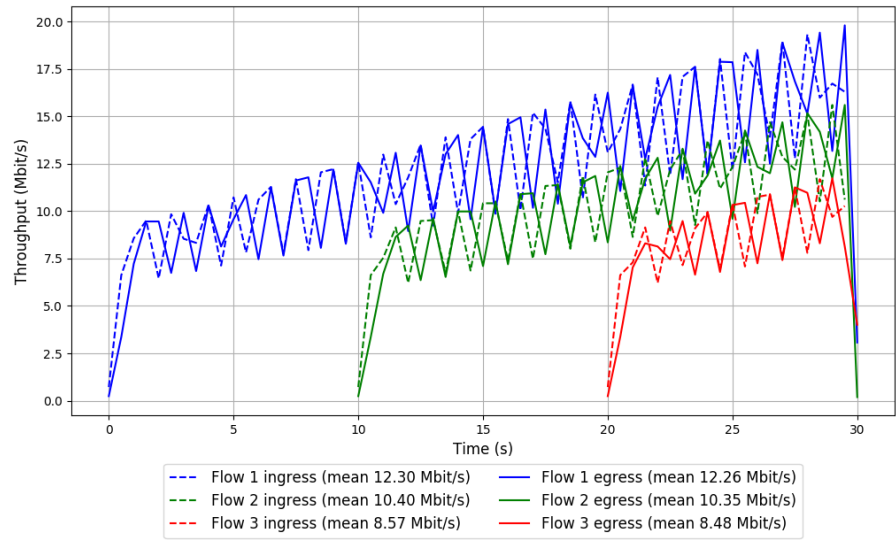


Run 9: Statistics of TCP Vegas

Start at: 2018-04-11 01:43:46
End at: 2018-04-11 01:44:16
Local clock offset: 37.782 ms
Remote clock offset: 12.607 ms

Below is generated by plot.py at 2018-04-11 02:53:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 153.585 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 12.26 Mbit/s
95th percentile per-packet one-way delay: 153.655 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 10.35 Mbit/s
95th percentile per-packet one-way delay: 152.775 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 154.370 ms
Loss rate: 1.05%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-11 02:08:07

End at: 2018-04-11 02:08:37

Local clock offset: 23.91 ms

Remote clock offset: 9.061 ms

Below is generated by plot.py at 2018-04-11 02:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.71 Mbit/s

95th percentile per-packet one-way delay: 155.595 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 155.707 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 154.651 ms

Loss rate: 0.46%

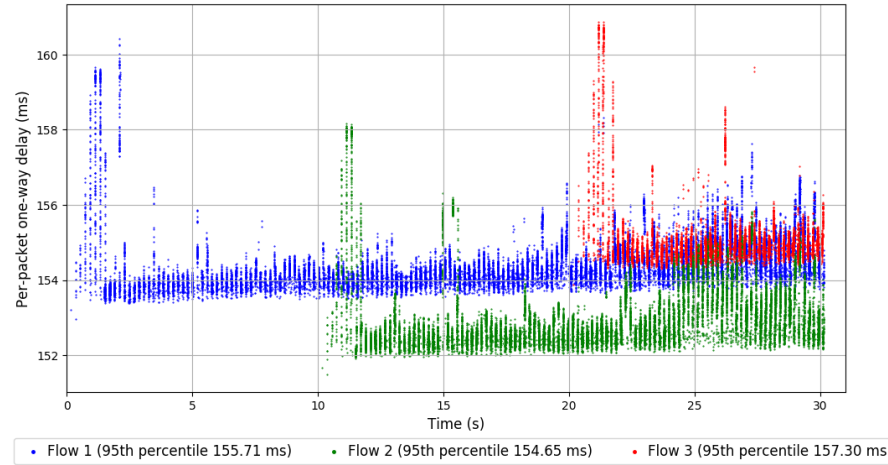
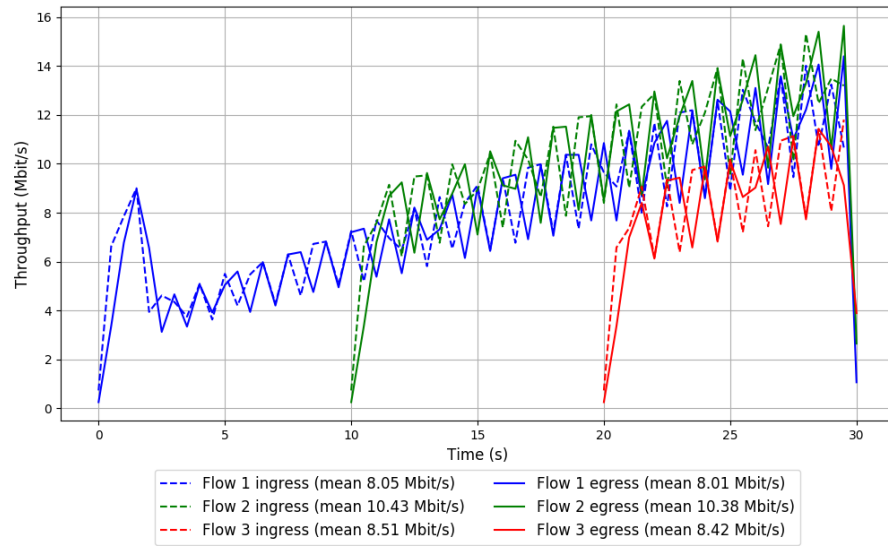
-- Flow 3:

Average throughput: 8.42 Mbit/s

95th percentile per-packet one-way delay: 157.303 ms

Loss rate: 1.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 22:22:00

End at: 2018-04-10 22:22:30

Local clock offset: 1.565 ms

Remote clock offset: 1.396 ms

Below is generated by plot.py at 2018-04-11 02:54:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.53 Mbit/s

95th percentile per-packet one-way delay: 231.869 ms

Loss rate: 87.24%

-- Flow 1:

Average throughput: 23.47 Mbit/s

95th percentile per-packet one-way delay: 235.924 ms

Loss rate: 86.35%

-- Flow 2:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 220.563 ms

Loss rate: 88.82%

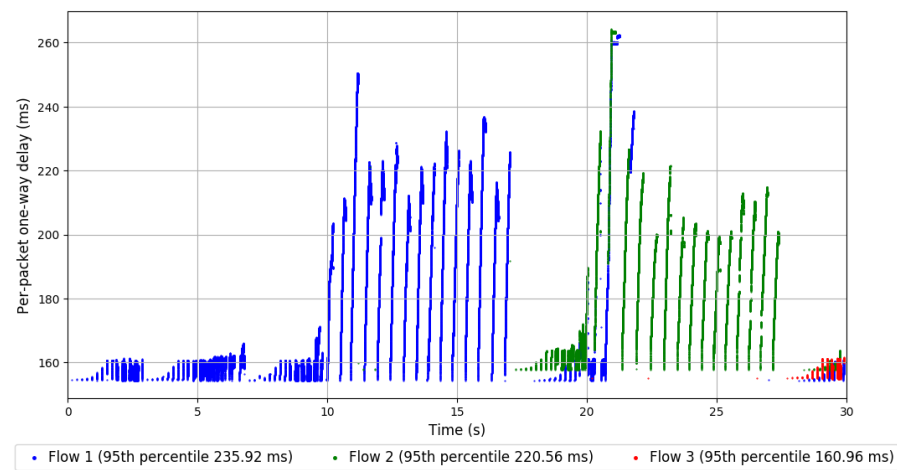
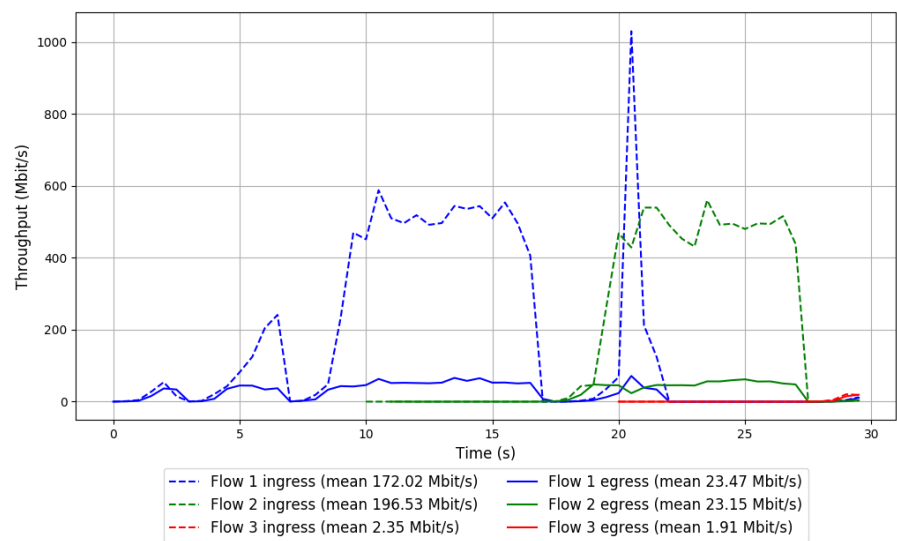
-- Flow 3:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 160.957 ms

Loss rate: 18.69%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 22:46:34

End at: 2018-04-10 22:47:04

Local clock offset: 1.507 ms

Remote clock offset: 2.725 ms

Below is generated by plot.py at 2018-04-11 02:54:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 209.245 ms

Loss rate: 81.55%

-- Flow 1:

Average throughput: 27.67 Mbit/s

95th percentile per-packet one-way delay: 207.299 ms

Loss rate: 81.10%

-- Flow 2:

Average throughput: 16.28 Mbit/s

95th percentile per-packet one-way delay: 221.759 ms

Loss rate: 84.27%

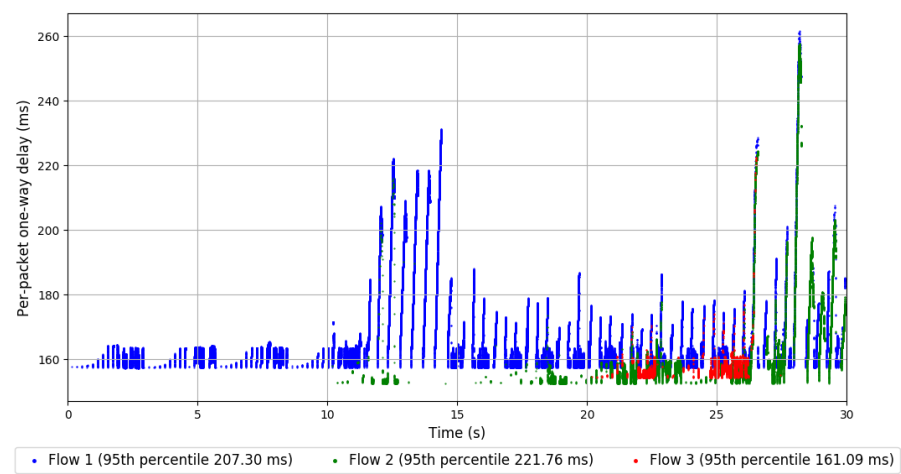
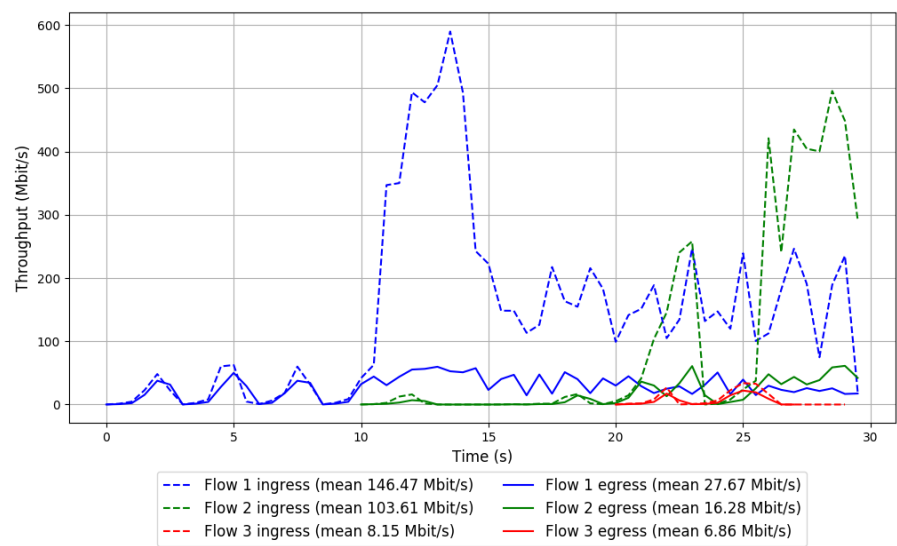
-- Flow 3:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 161.093 ms

Loss rate: 35.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 23:10:59

End at: 2018-04-10 23:11:29

Local clock offset: 1.796 ms

Remote clock offset: 2.832 ms

Below is generated by plot.py at 2018-04-11 02:54:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 209.588 ms

Loss rate: 82.36%

-- Flow 1:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 211.211 ms

Loss rate: 84.48%

-- Flow 2:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 159.641 ms

Loss rate: 32.29%

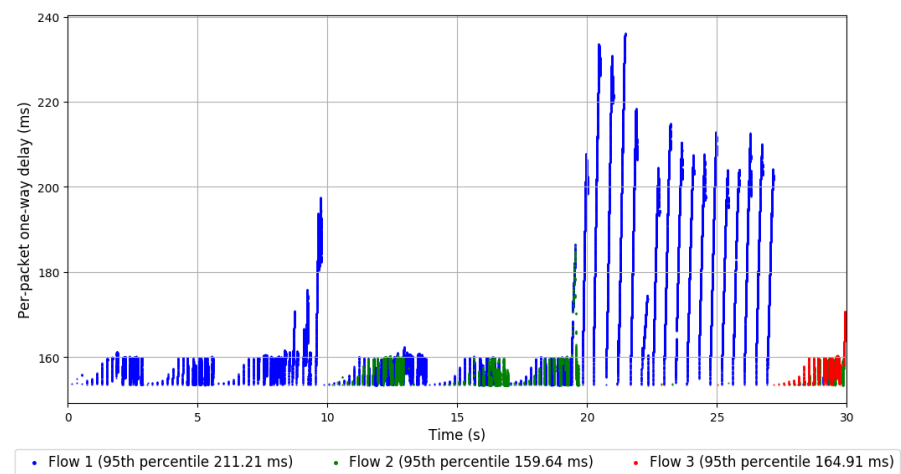
-- Flow 3:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 164.913 ms

Loss rate: 53.65%

Run 3: Report of Verus — Data Link

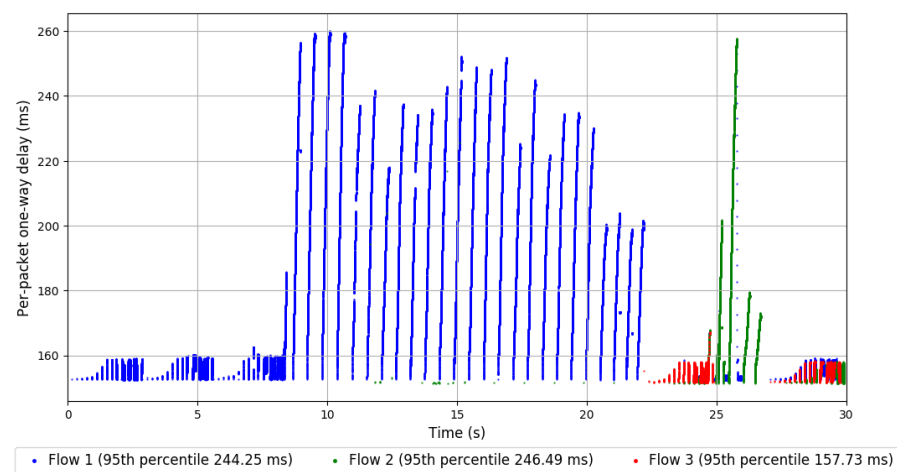
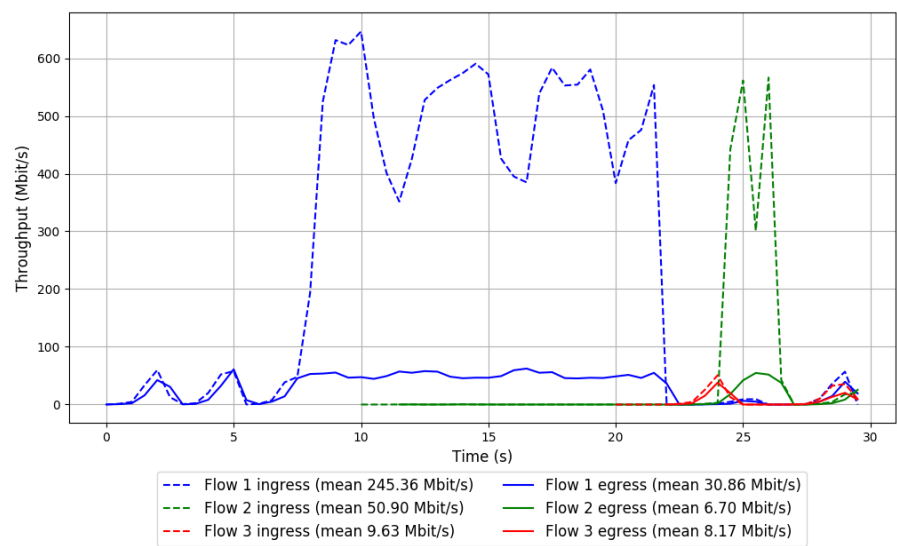


Run 4: Statistics of Verus

Start at: 2018-04-10 23:35:31
End at: 2018-04-10 23:36:01
Local clock offset: 2.102 ms
Remote clock offset: 2.335 ms

Below is generated by plot.py at 2018-04-11 02:54:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 243.495 ms
Loss rate: 86.83%
-- Flow 1:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 244.250 ms
Loss rate: 87.42%
-- Flow 2:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 246.493 ms
Loss rate: 87.54%
-- Flow 3:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 157.732 ms
Loss rate: 32.90%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 23:59:54

End at: 2018-04-11 00:00:24

Local clock offset: 1.911 ms

Remote clock offset: 6.952 ms

Below is generated by plot.py at 2018-04-11 02:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.90 Mbit/s

95th percentile per-packet one-way delay: 228.258 ms

Loss rate: 87.87%

-- Flow 1:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: 228.259 ms

Loss rate: 87.88%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 205.383 ms

Loss rate: 66.67%

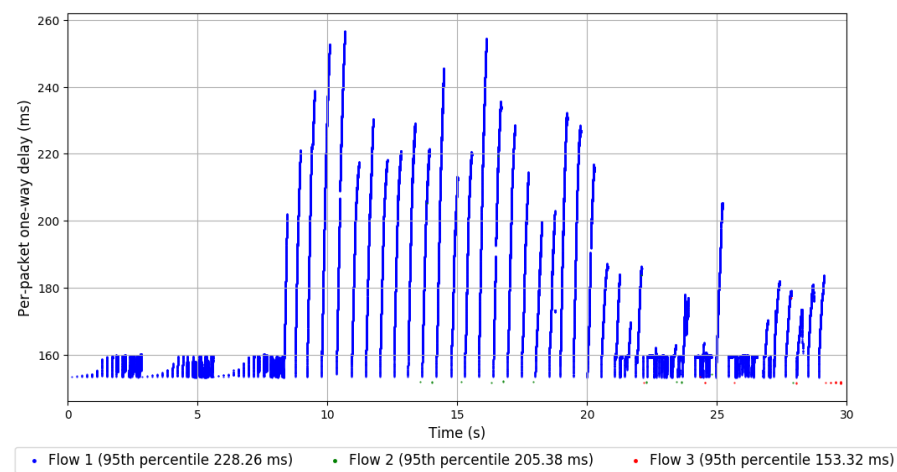
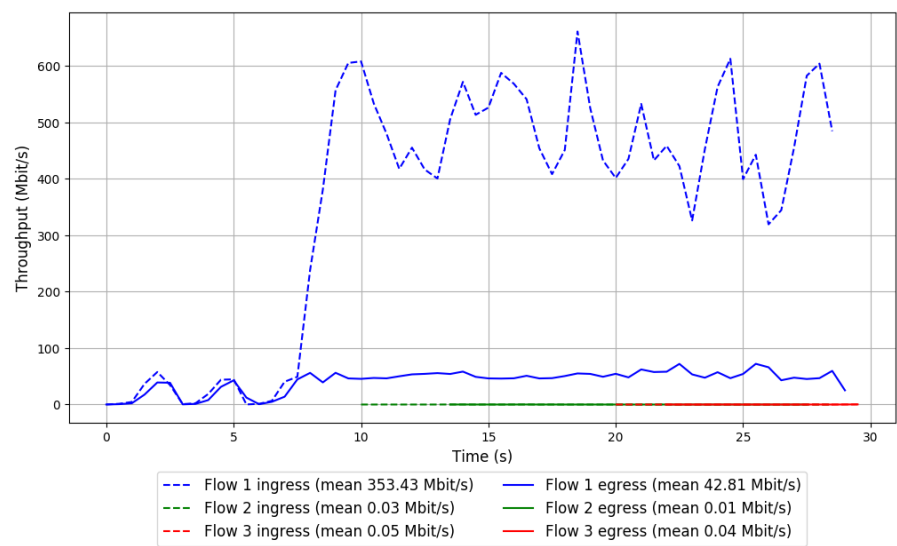
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 153.320 ms

Loss rate: 41.03%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-11 00:24:28

End at: 2018-04-11 00:24:58

Local clock offset: 1.833 ms

Remote clock offset: 6.07 ms

Below is generated by plot.py at 2018-04-11 02:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 220.318 ms

Loss rate: 84.05%

-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 193.382 ms

Loss rate: 73.15%

-- Flow 2:

Average throughput: 33.56 Mbit/s

95th percentile per-packet one-way delay: 227.910 ms

Loss rate: 87.48%

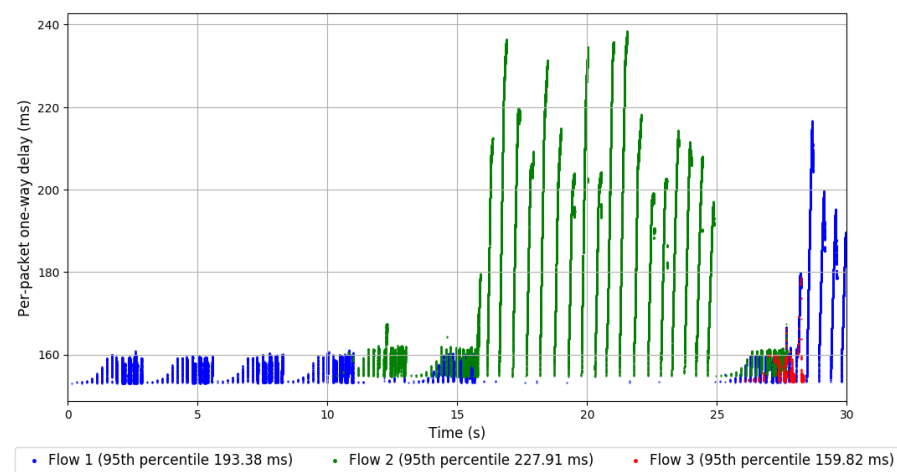
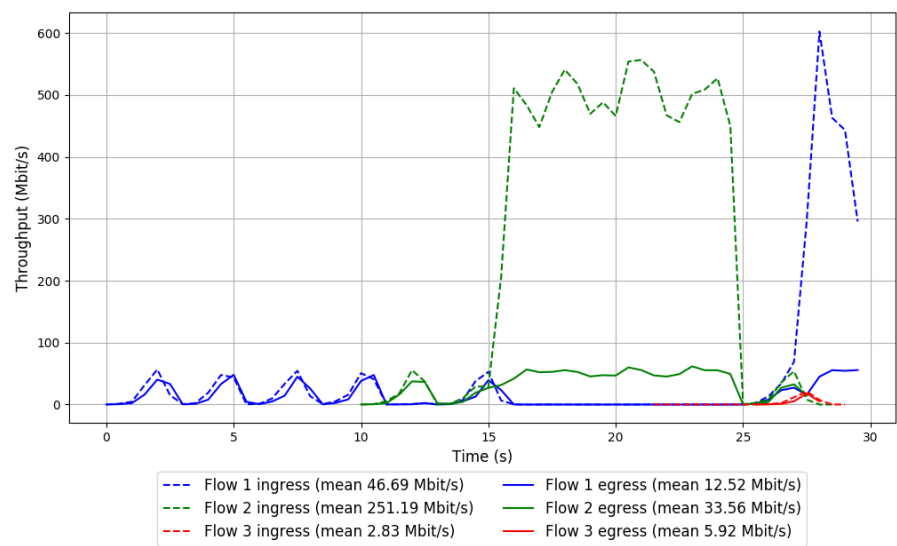
-- Flow 3:

Average throughput: 5.92 Mbit/s

95th percentile per-packet one-way delay: 159.818 ms

Loss rate: 31.55%

Run 6: Report of Verus — Data Link

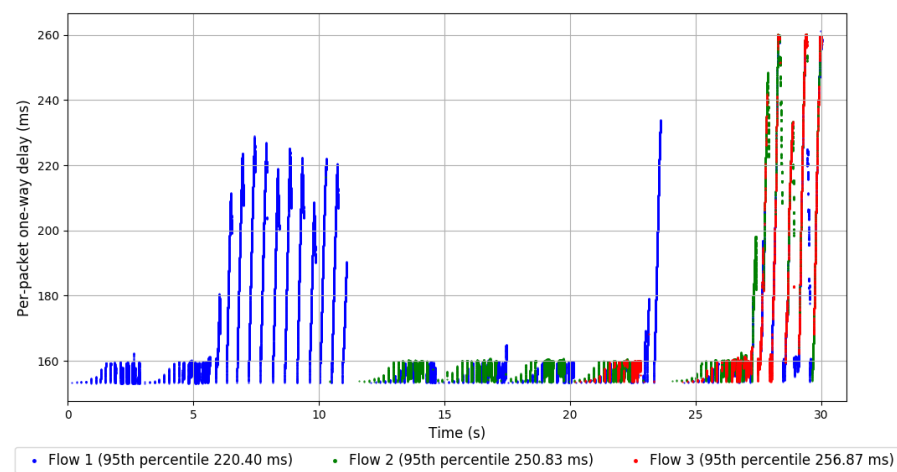
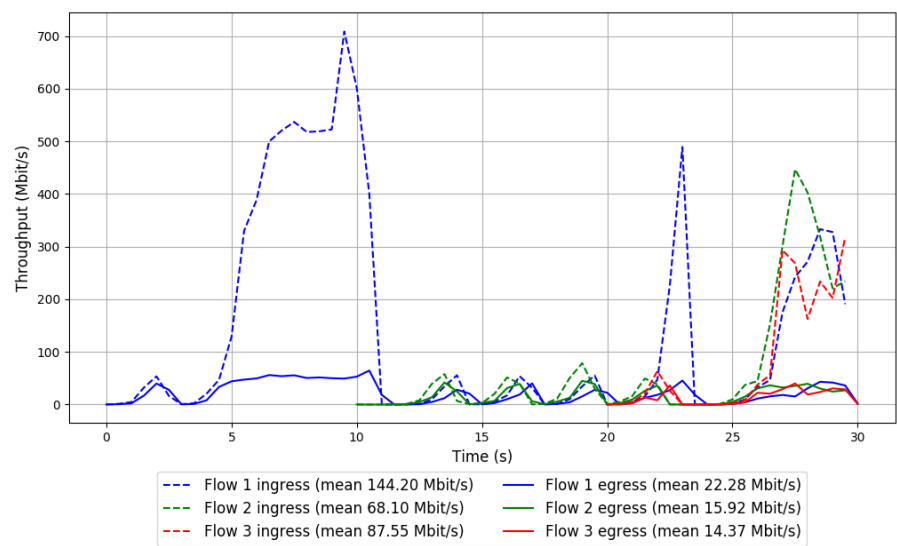


Run 7: Statistics of Verus

Start at: 2018-04-11 00:48:57
End at: 2018-04-11 00:49:27
Local clock offset: 35.654 ms
Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-04-11 02:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 233.445 ms
Loss rate: 82.71%
-- Flow 1:
Average throughput: 22.28 Mbit/s
95th percentile per-packet one-way delay: 220.399 ms
Loss rate: 84.49%
-- Flow 2:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 250.830 ms
Loss rate: 76.58%
-- Flow 3:
Average throughput: 14.37 Mbit/s
95th percentile per-packet one-way delay: 256.866 ms
Loss rate: 83.41%

Run 7: Report of Verus — Data Link

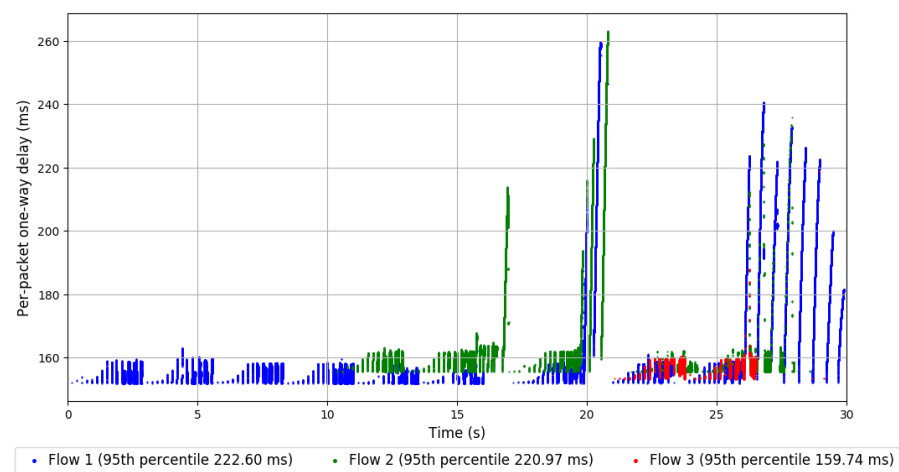
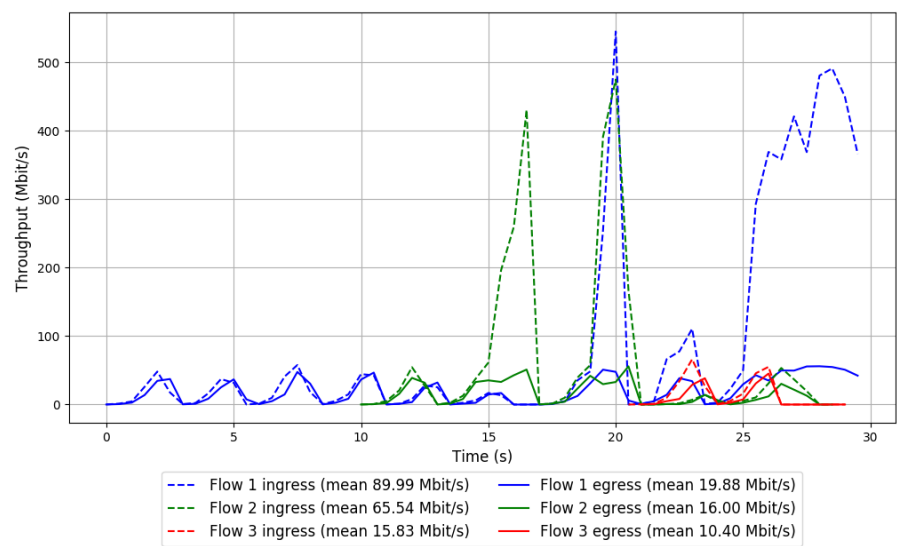


Run 8: Statistics of Verus

Start at: 2018-04-11 01:13:40
End at: 2018-04-11 01:14:10
Local clock offset: 48.633 ms
Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-04-11 02:54:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.72 Mbit/s
95th percentile per-packet one-way delay: 221.104 ms
Loss rate: 75.81%
-- Flow 1:
Average throughput: 19.88 Mbit/s
95th percentile per-packet one-way delay: 222.602 ms
Loss rate: 77.89%
-- Flow 2:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 220.973 ms
Loss rate: 75.53%
-- Flow 3:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 159.743 ms
Loss rate: 35.83%

Run 8: Report of Verus — Data Link

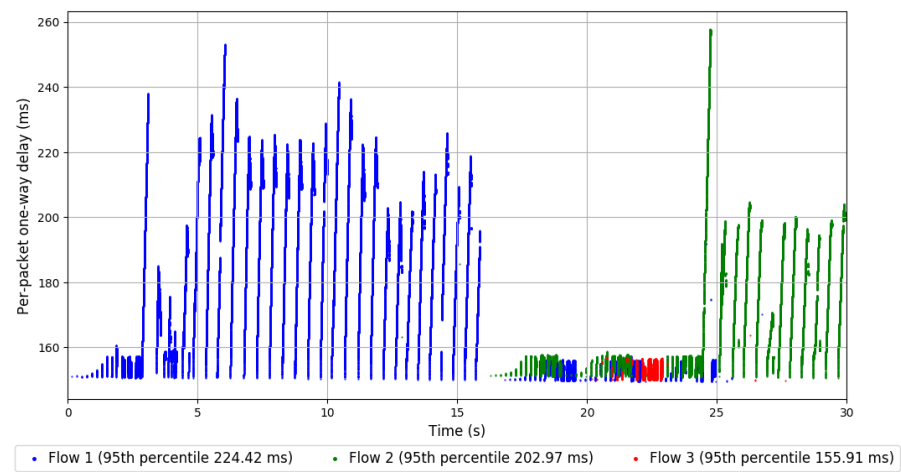
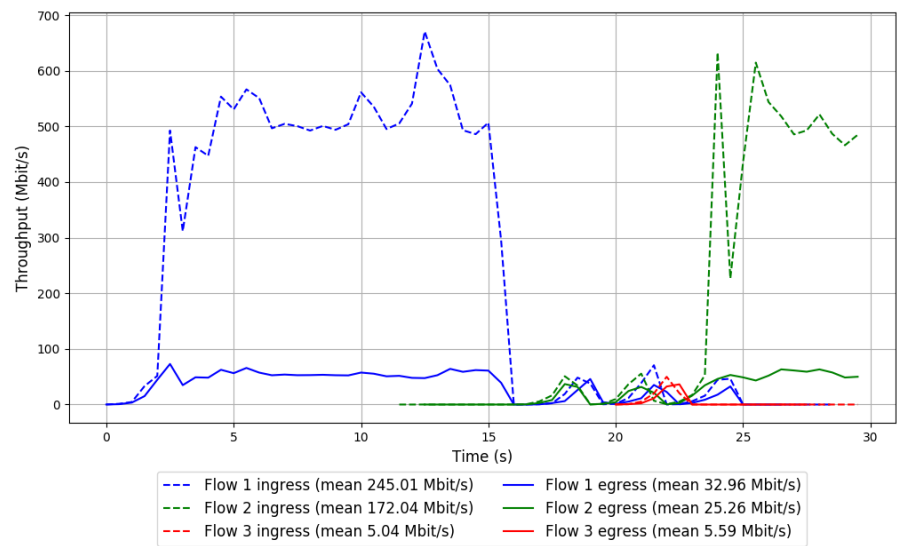


Run 9: Statistics of Verus

Start at: 2018-04-11 01:38:09
End at: 2018-04-11 01:38:39
Local clock offset: 49.468 ms
Remote clock offset: 9.783 ms

Below is generated by plot.py at 2018-04-11 02:56:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 222.753 ms
Loss rate: 86.78%
-- Flow 1:
Average throughput: 32.96 Mbit/s
95th percentile per-packet one-way delay: 224.419 ms
Loss rate: 87.57%
-- Flow 2:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 202.970 ms
Loss rate: 86.10%
-- Flow 3:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 155.911 ms
Loss rate: 13.97%

Run 9: Report of Verus — Data Link

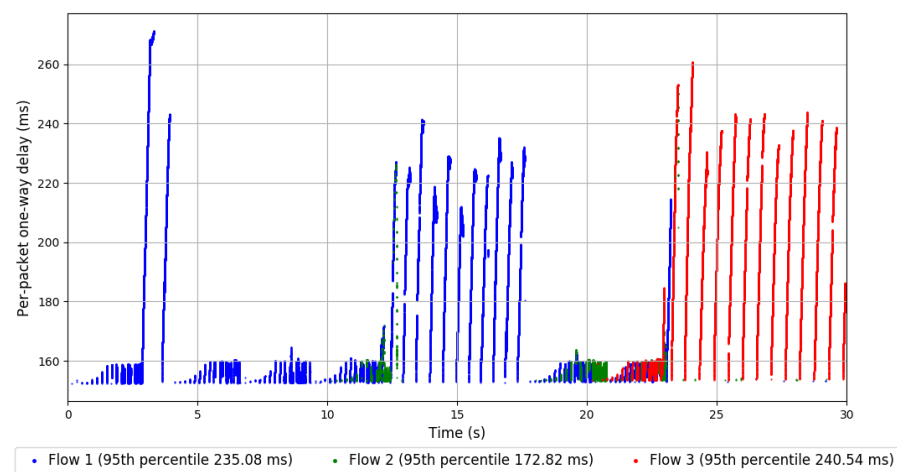
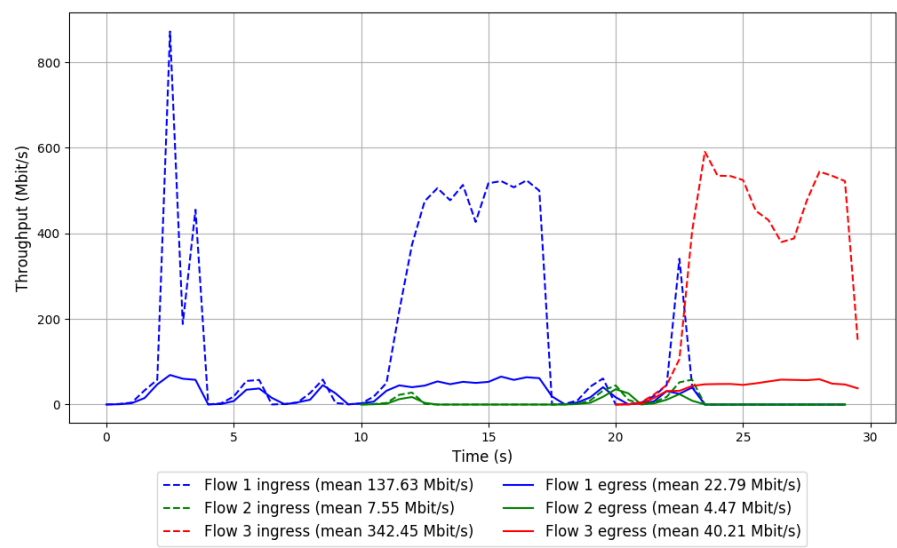


Run 10: Statistics of Verus

Start at: 2018-04-11 02:02:41
End at: 2018-04-11 02:03:11
Local clock offset: 25.01 ms
Remote clock offset: 16.965 ms

Below is generated by plot.py at 2018-04-11 02:56:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.21 Mbit/s
95th percentile per-packet one-way delay: 238.589 ms
Loss rate: 84.80%
-- Flow 1:
Average throughput: 22.79 Mbit/s
95th percentile per-packet one-way delay: 235.076 ms
Loss rate: 83.55%
-- Flow 2:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 172.823 ms
Loss rate: 41.38%
-- Flow 3:
Average throughput: 40.21 Mbit/s
95th percentile per-packet one-way delay: 240.537 ms
Loss rate: 88.22%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-10 22:31:43

End at: 2018-04-10 22:32:13

Local clock offset: 1.563 ms

Remote clock offset: 2.838 ms

Below is generated by plot.py at 2018-04-11 02:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.18 Mbit/s

95th percentile per-packet one-way delay: 162.321 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 46.73 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 29.33 Mbit/s

95th percentile per-packet one-way delay: 163.394 ms

Loss rate: 0.21%

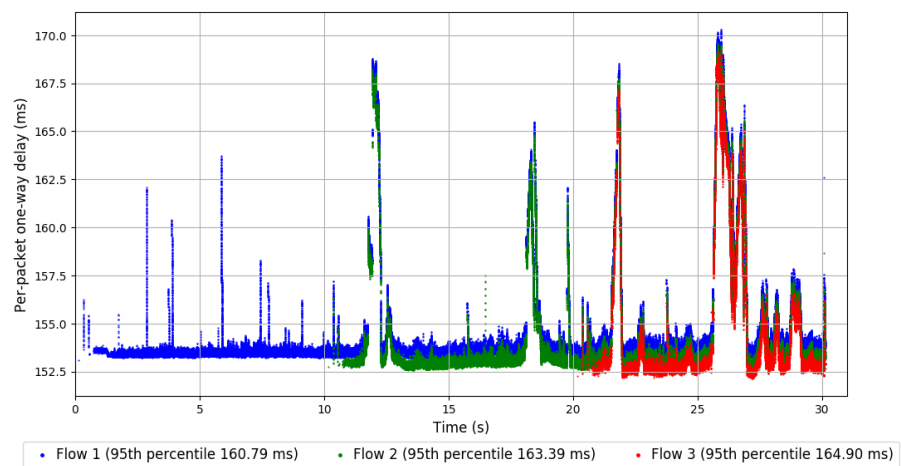
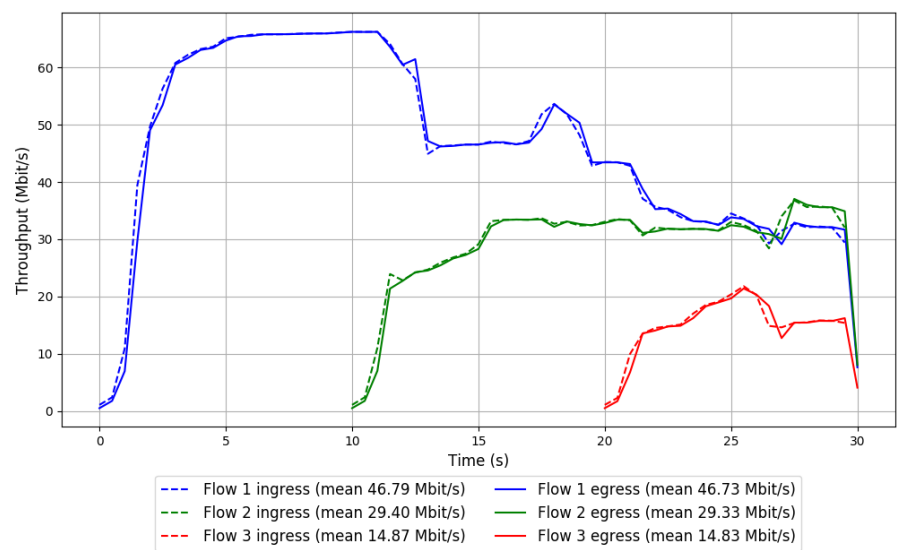
-- Flow 3:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 164.903 ms

Loss rate: 0.26%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-10 22:56:08

End at: 2018-04-10 22:56:38

Local clock offset: 1.806 ms

Remote clock offset: 2.56 ms

Below is generated by plot.py at 2018-04-11 02:56:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 163.831 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 161.129 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 166.130 ms

Loss rate: 0.16%

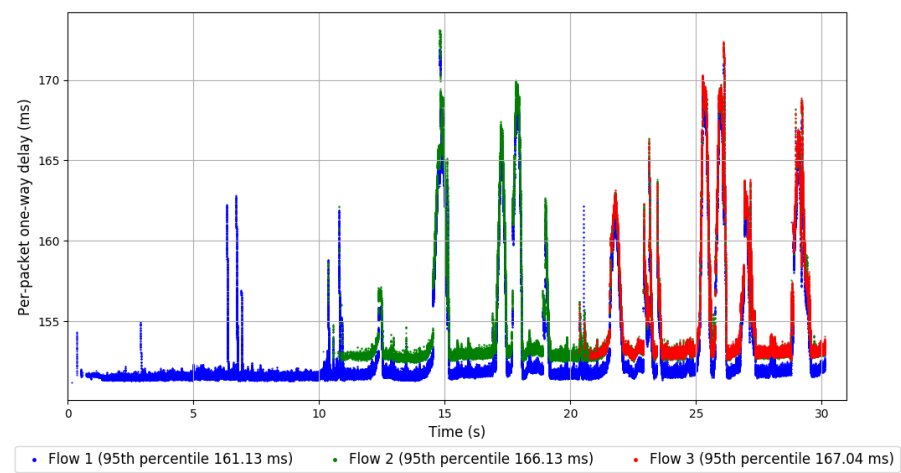
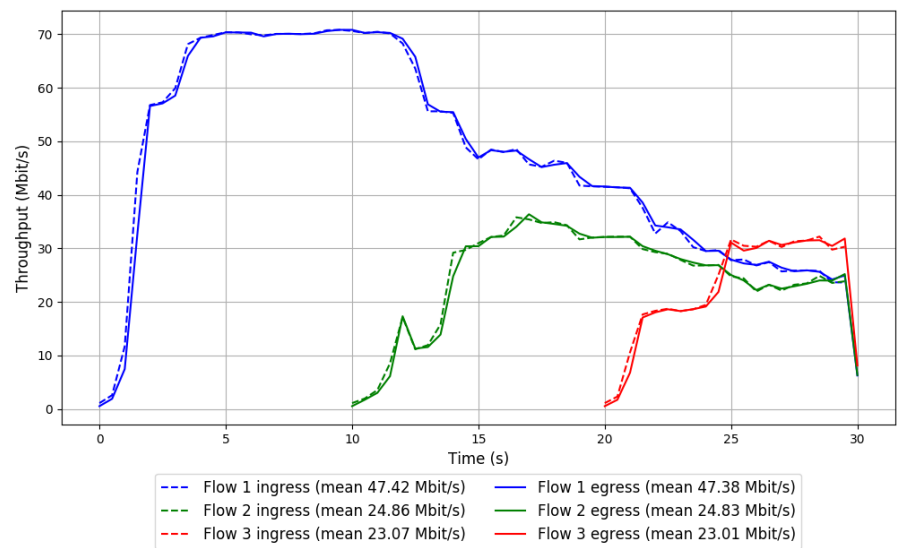
-- Flow 3:

Average throughput: 23.01 Mbit/s

95th percentile per-packet one-way delay: 167.041 ms

Loss rate: 0.28%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-10 23:20:40

End at: 2018-04-10 23:21:10

Local clock offset: 1.89 ms

Remote clock offset: 2.394 ms

Below is generated by plot.py at 2018-04-11 02:56:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 159.579 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 49.69 Mbit/s

95th percentile per-packet one-way delay: 158.713 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 28.49 Mbit/s

95th percentile per-packet one-way delay: 161.290 ms

Loss rate: 0.16%

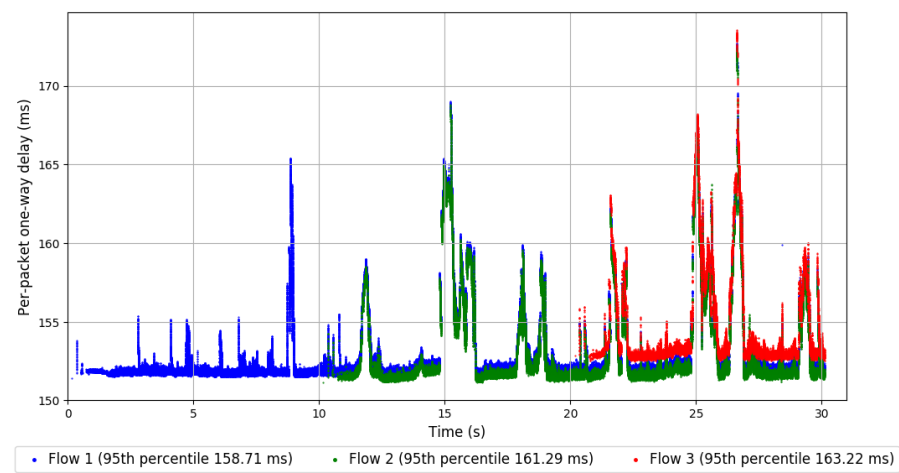
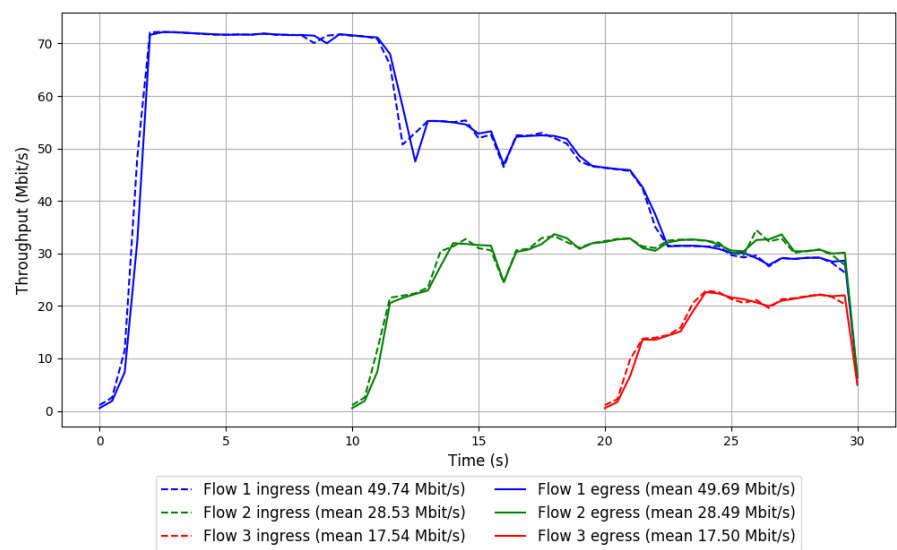
-- Flow 3:

Average throughput: 17.50 Mbit/s

95th percentile per-packet one-way delay: 163.224 ms

Loss rate: 0.21%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 23:45:05

End at: 2018-04-10 23:45:35

Local clock offset: 1.907 ms

Remote clock offset: 2.43 ms

Below is generated by plot.py at 2018-04-11 02:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.31 Mbit/s

95th percentile per-packet one-way delay: 161.751 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 160.882 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 163.595 ms

Loss rate: 0.07%

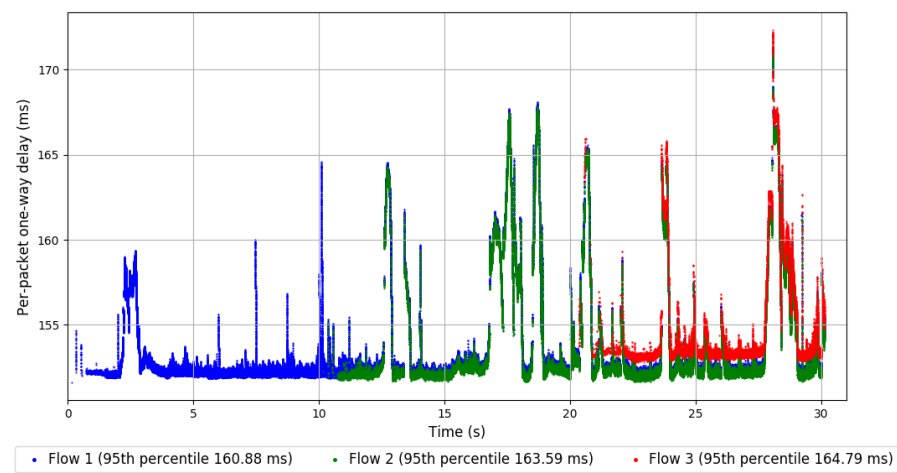
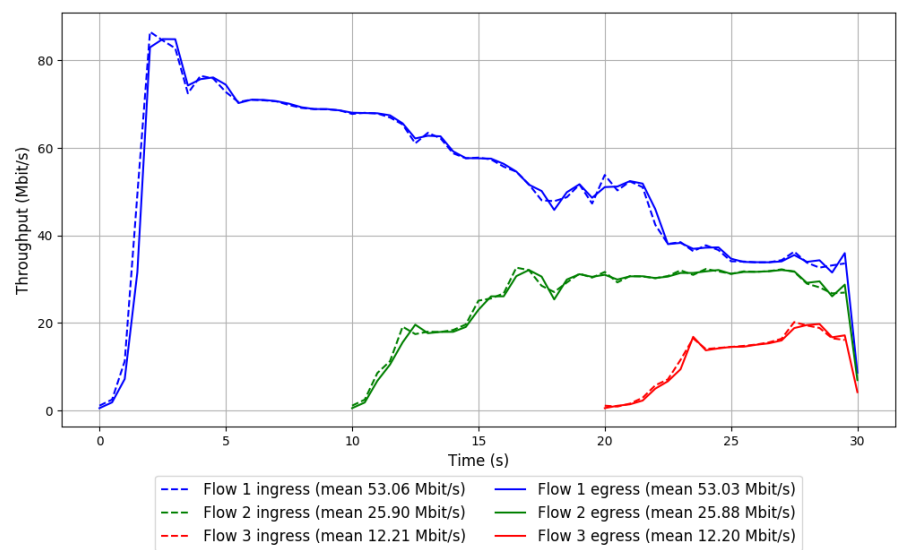
-- Flow 3:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 164.794 ms

Loss rate: 0.12%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-11 00:09:38

End at: 2018-04-11 00:10:08

Local clock offset: 2.01 ms

Remote clock offset: 8.585 ms

Below is generated by plot.py at 2018-04-11 02:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 160.162 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 159.892 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 26.15 Mbit/s

95th percentile per-packet one-way delay: 160.516 ms

Loss rate: 0.06%

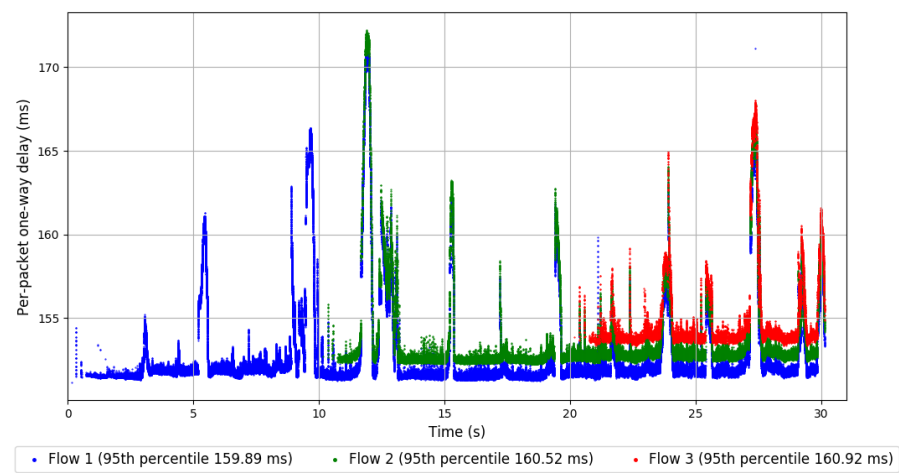
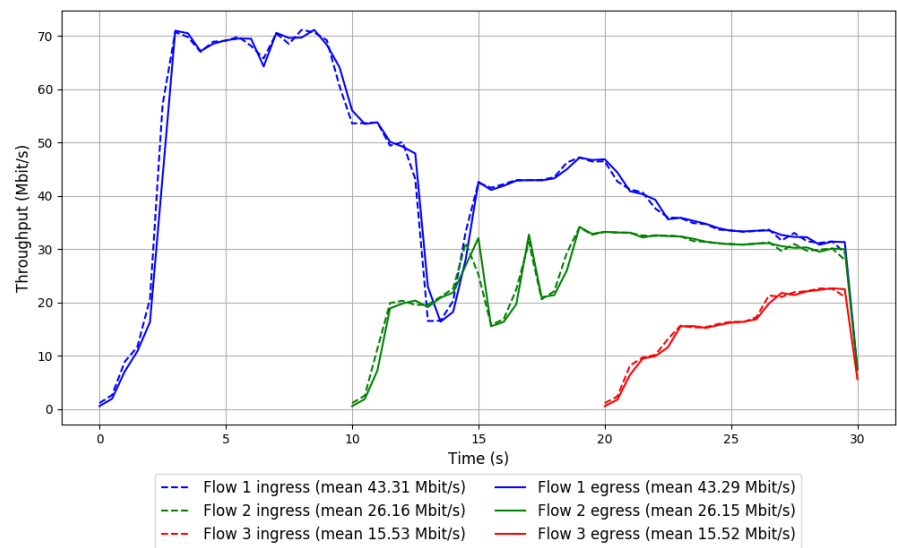
-- Flow 3:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 160.918 ms

Loss rate: 0.04%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-11 00:33:59

End at: 2018-04-11 00:34:29

Local clock offset: 19.819 ms

Remote clock offset: 1.991 ms

Below is generated by plot.py at 2018-04-11 02:59:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 274.104 ms

Loss rate: 82.34%

-- Flow 1:

Average throughput: 72.83 Mbit/s

95th percentile per-packet one-way delay: 274.127 ms

Loss rate: 83.29%

-- Flow 2:

Average throughput: 8.09 Mbit/s

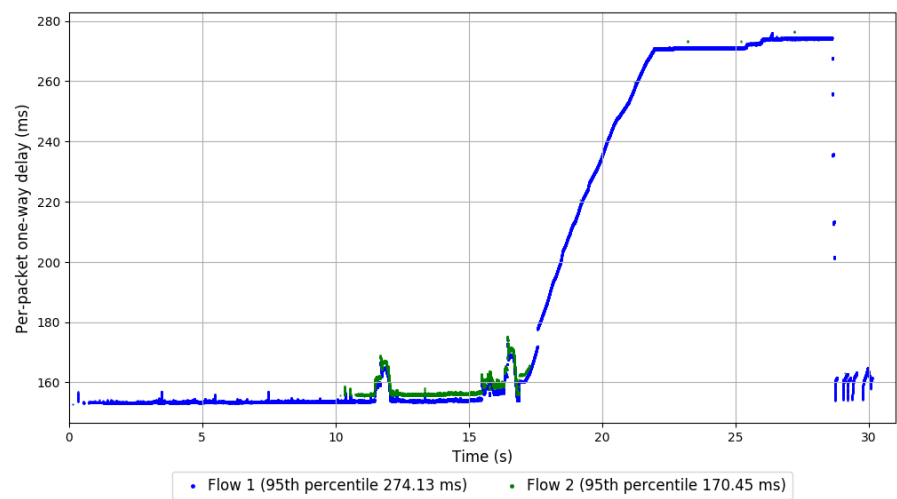
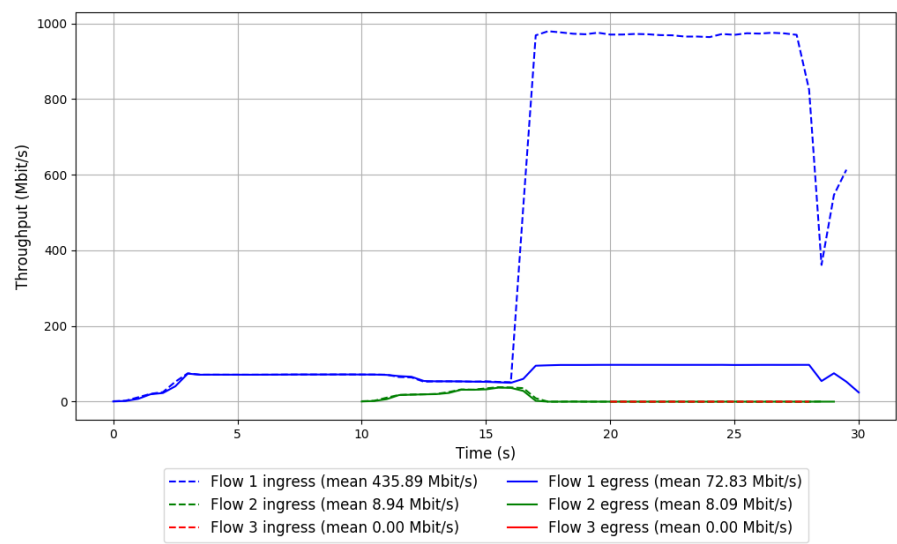
95th percentile per-packet one-way delay: 170.452 ms

Loss rate: 9.47%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 6: Report of Copa — Data Link

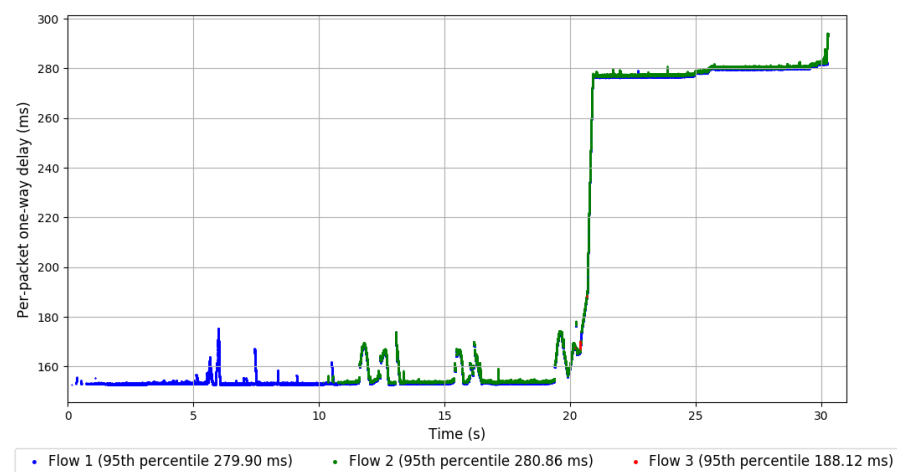
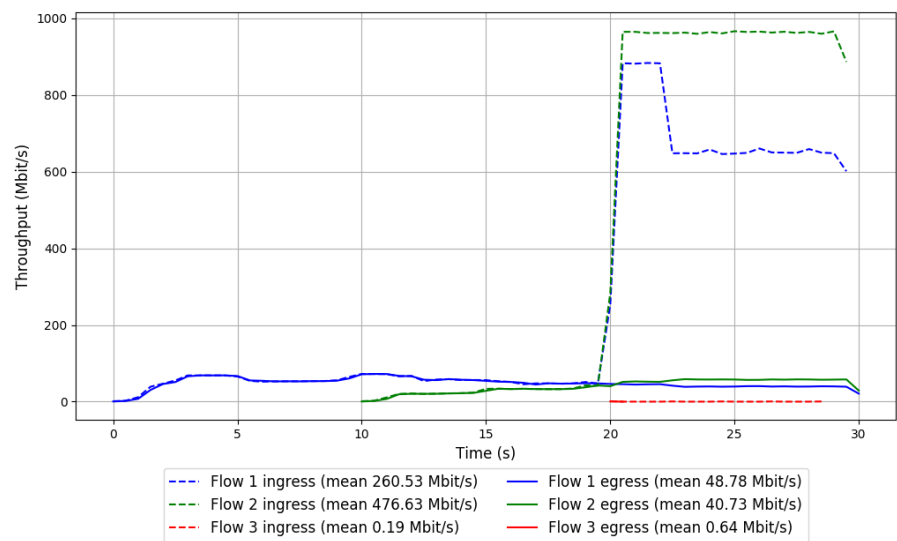


Run 7: Statistics of Copa

Start at: 2018-04-11 00:58:38
End at: 2018-04-11 00:59:08
Local clock offset: 40.88 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-04-11 03:01:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.97 Mbit/s
95th percentile per-packet one-way delay: 280.509 ms
Loss rate: 86.80%
-- Flow 1:
Average throughput: 48.78 Mbit/s
95th percentile per-packet one-way delay: 279.898 ms
Loss rate: 81.19%
-- Flow 2:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 280.860 ms
Loss rate: 91.39%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 188.115 ms
Loss rate: 81.28%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-11 01:23:10

End at: 2018-04-11 01:23:40

Local clock offset: 53.14 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 159.049 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 157.021 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 25.05 Mbit/s

95th percentile per-packet one-way delay: 161.102 ms

Loss rate: 0.09%

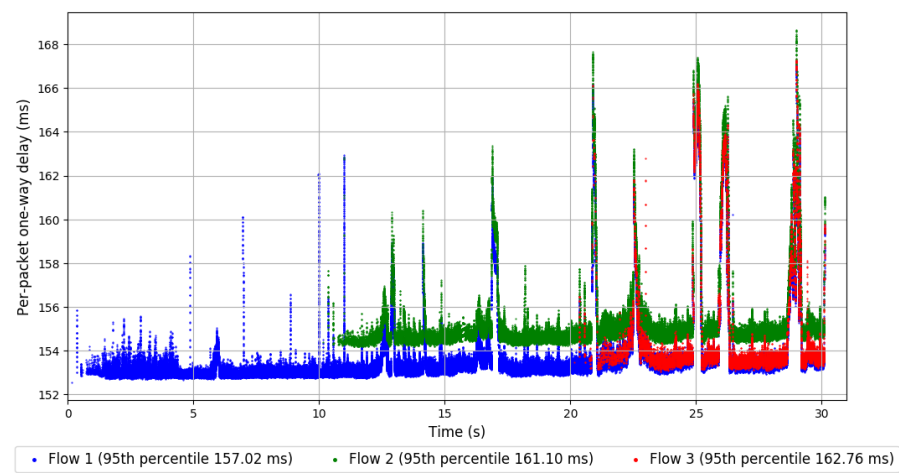
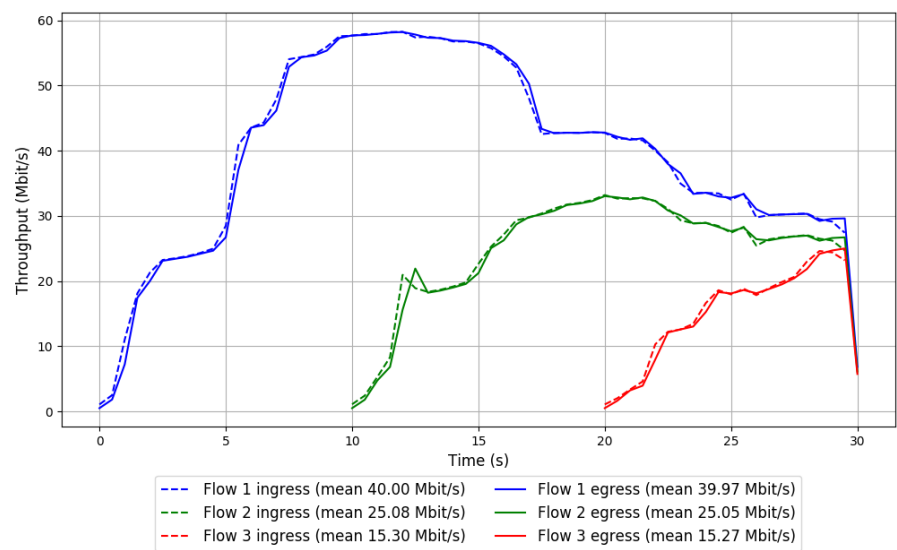
-- Flow 3:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 162.757 ms

Loss rate: 0.14%

Run 8: Report of Copa — Data Link

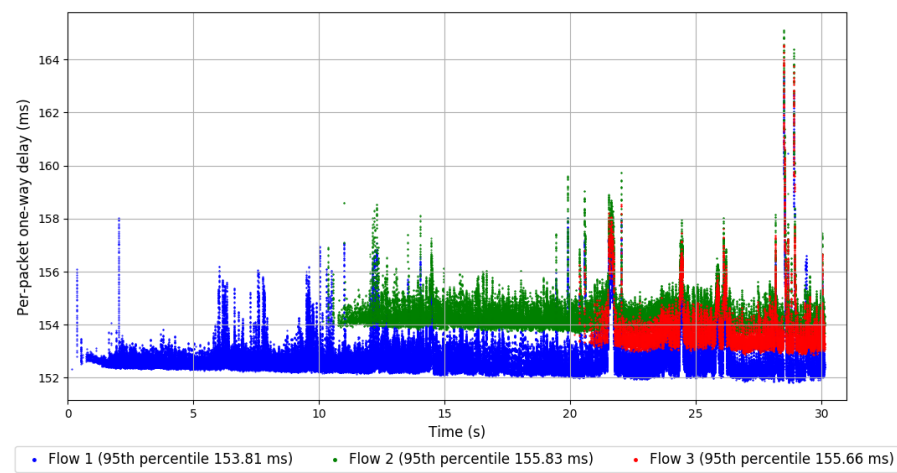
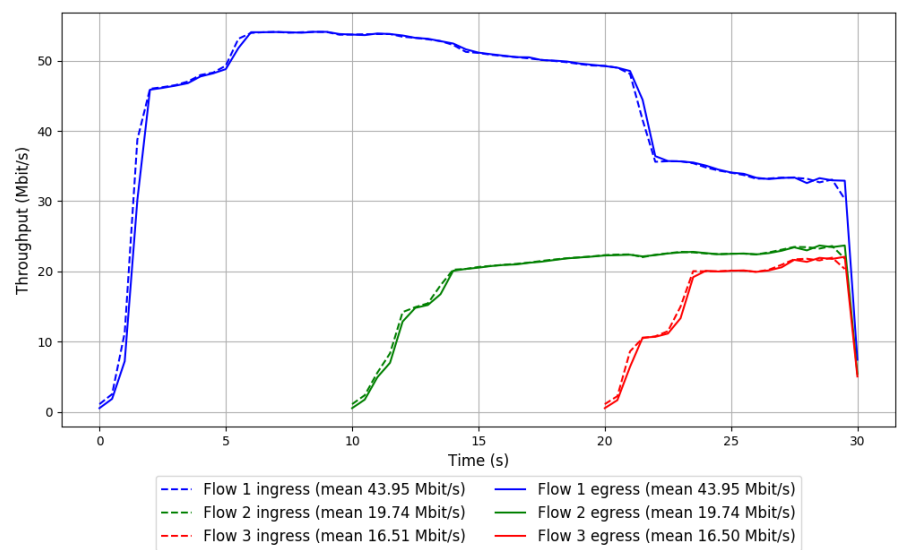


Run 9: Statistics of Copa

Start at: 2018-04-11 01:47:53
End at: 2018-04-11 01:48:23
Local clock offset: 32.909 ms
Remote clock offset: 13.926 ms

Below is generated by plot.py at 2018-04-11 03:01:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.57 Mbit/s
95th percentile per-packet one-way delay: 154.921 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 43.95 Mbit/s
95th percentile per-packet one-way delay: 153.808 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 155.834 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 155.662 ms
Loss rate: 0.05%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-11 02:12:11

End at: 2018-04-11 02:12:41

Local clock offset: 18.99 ms

Remote clock offset: 5.576 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.63 Mbit/s

95th percentile per-packet one-way delay: 159.821 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 155.396 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 164.124 ms

Loss rate: 0.13%

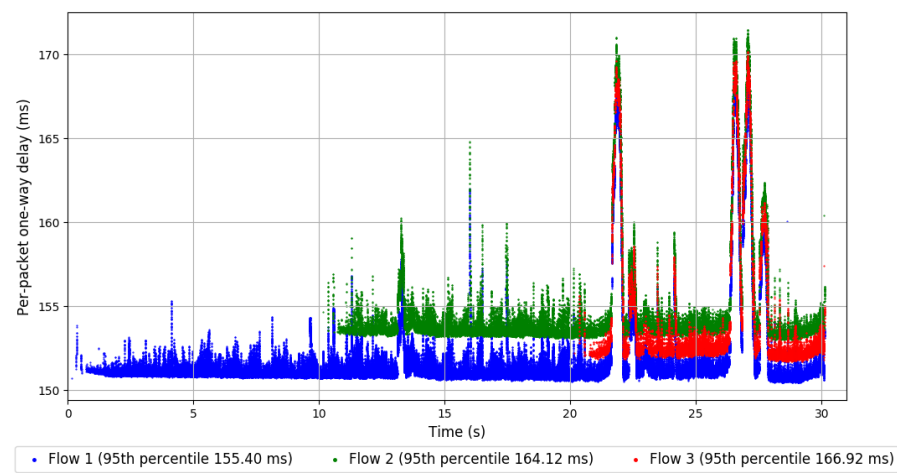
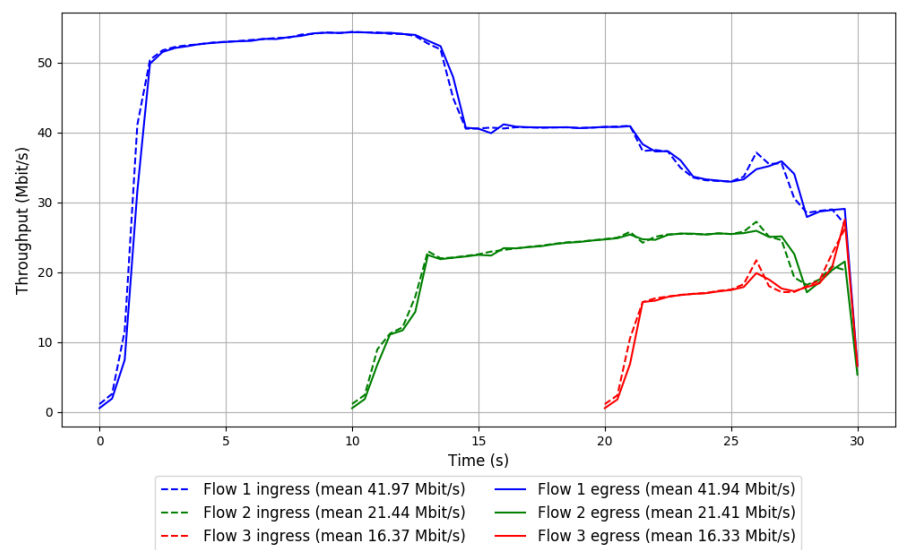
-- Flow 3:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 166.923 ms

Loss rate: 0.23%

Run 10: Report of Copa — Data Link

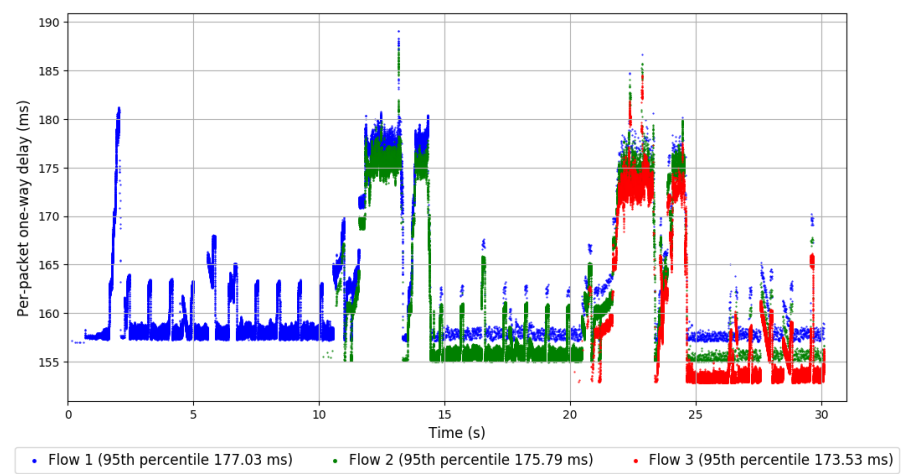
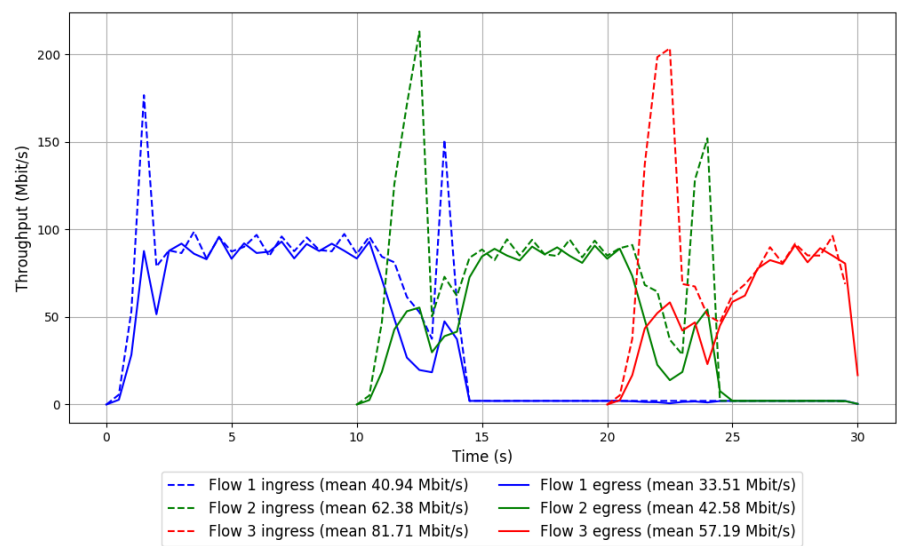


Run 1: Statistics of FillP

Start at: 2018-04-10 22:15:18
End at: 2018-04-10 22:15:48
Local clock offset: 1.75 ms
Remote clock offset: -0.721 ms

Below is generated by plot.py at 2018-04-11 03:01:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.82 Mbit/s
95th percentile per-packet one-way delay: 175.689 ms
Loss rate: 26.23%
-- Flow 1:
Average throughput: 33.51 Mbit/s
95th percentile per-packet one-way delay: 177.029 ms
Loss rate: 18.13%
-- Flow 2:
Average throughput: 42.58 Mbit/s
95th percentile per-packet one-way delay: 175.789 ms
Loss rate: 31.75%
-- Flow 3:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 173.526 ms
Loss rate: 30.00%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 22:39:53

End at: 2018-04-10 22:40:23

Local clock offset: 1.515 ms

Remote clock offset: 3.173 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.05 Mbit/s

95th percentile per-packet one-way delay: 172.875 ms

Loss rate: 20.84%

-- Flow 1:

Average throughput: 50.95 Mbit/s

95th percentile per-packet one-way delay: 165.124 ms

Loss rate: 18.14%

-- Flow 2:

Average throughput: 26.41 Mbit/s

95th percentile per-packet one-way delay: 178.167 ms

Loss rate: 28.45%

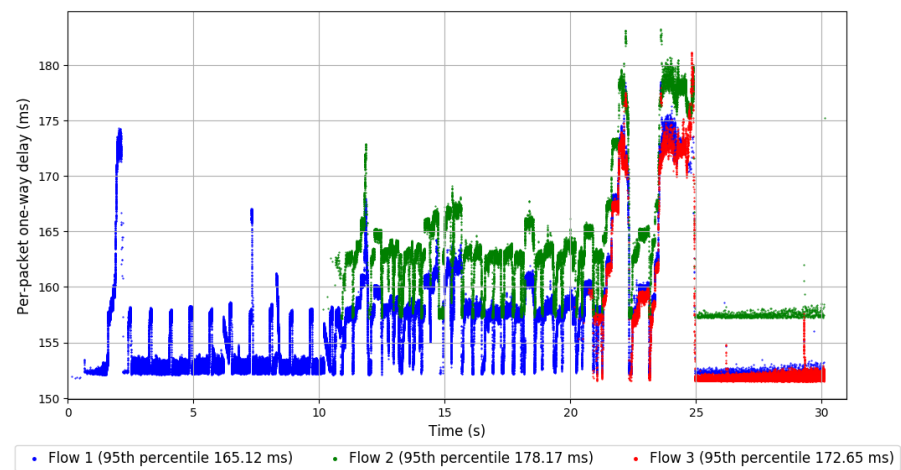
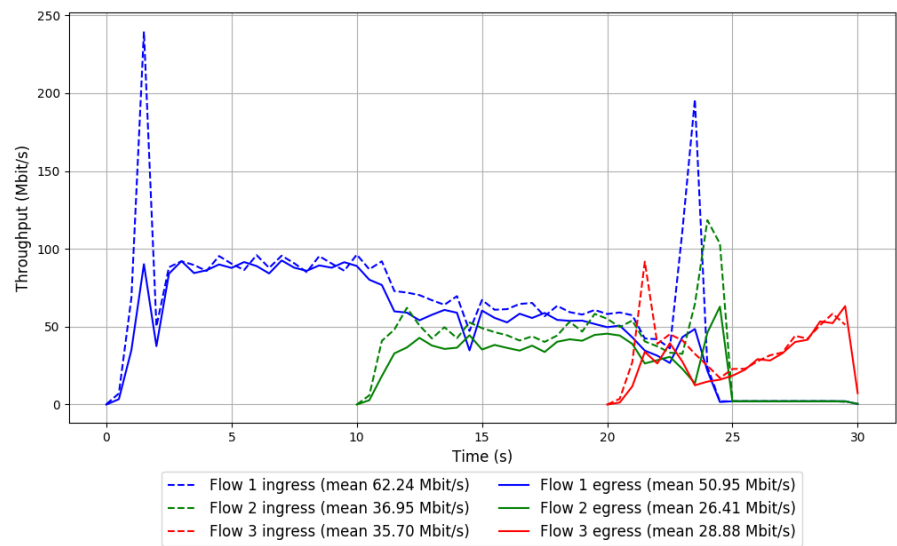
-- Flow 3:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 172.653 ms

Loss rate: 19.16%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 23:04:18

End at: 2018-04-10 23:04:48

Local clock offset: 1.899 ms

Remote clock offset: 2.696 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 172.871 ms

Loss rate: 22.08%

-- Flow 1:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 169.371 ms

Loss rate: 17.84%

-- Flow 2:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 173.456 ms

Loss rate: 26.40%

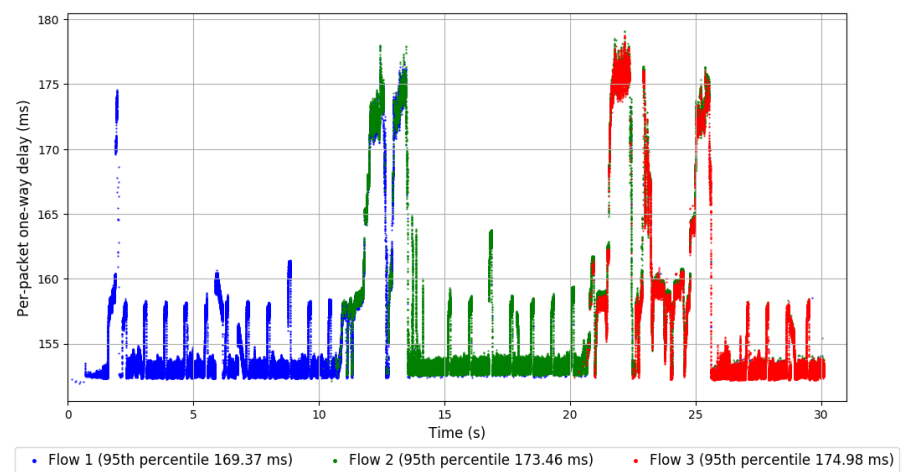
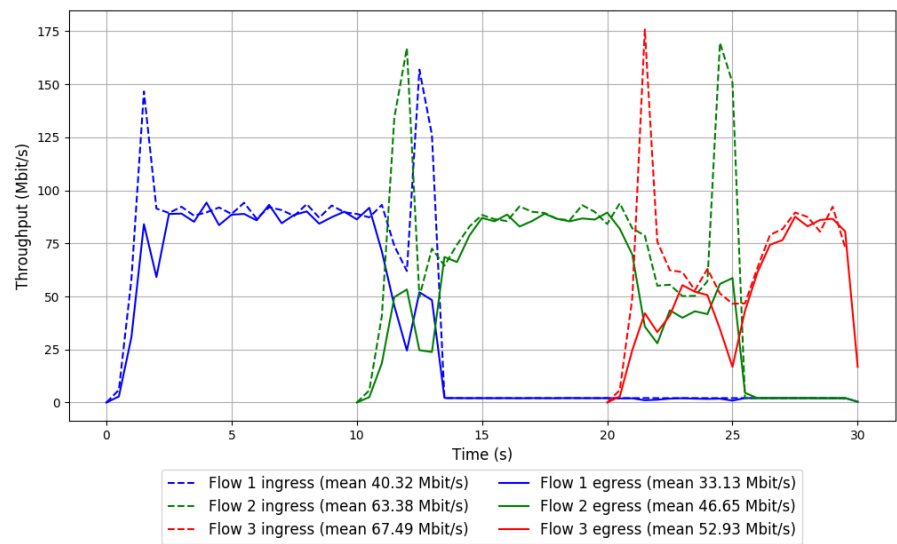
-- Flow 3:

Average throughput: 52.93 Mbit/s

95th percentile per-packet one-way delay: 174.983 ms

Loss rate: 21.57%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 23:28:50

End at: 2018-04-10 23:29:20

Local clock offset: 2.061 ms

Remote clock offset: 2.4 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.76 Mbit/s

95th percentile per-packet one-way delay: 172.209 ms

Loss rate: 21.23%

-- Flow 1:

Average throughput: 33.35 Mbit/s

95th percentile per-packet one-way delay: 168.348 ms

Loss rate: 18.14%

-- Flow 2:

Average throughput: 42.56 Mbit/s

95th percentile per-packet one-way delay: 171.875 ms

Loss rate: 24.32%

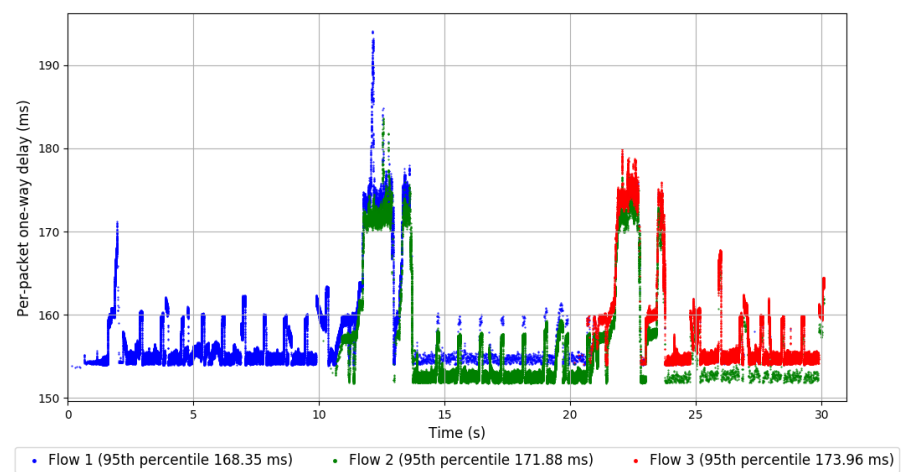
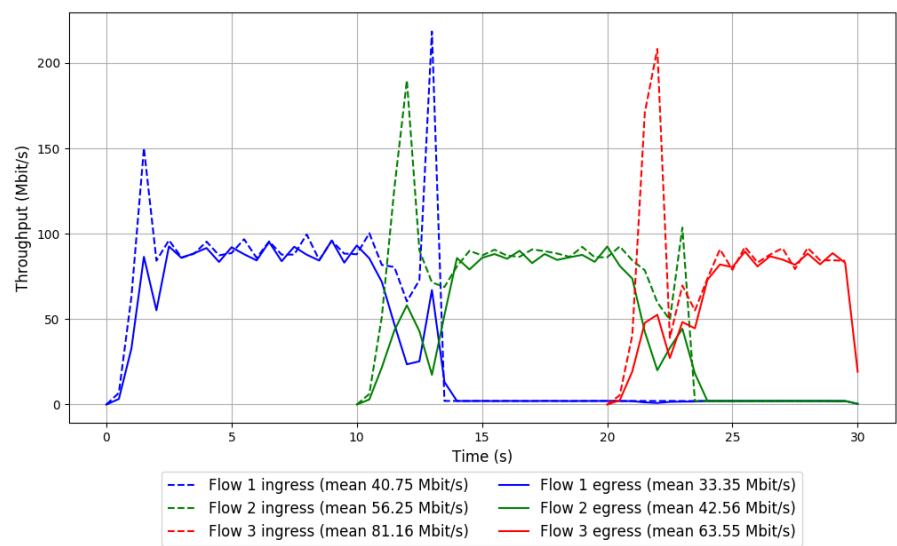
-- Flow 3:

Average throughput: 63.55 Mbit/s

95th percentile per-packet one-way delay: 173.962 ms

Loss rate: 21.61%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 23:53:13

End at: 2018-04-10 23:53:43

Local clock offset: 2.072 ms

Remote clock offset: 5.429 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 172.116 ms

Loss rate: 19.42%

-- Flow 1:

Average throughput: 45.40 Mbit/s

95th percentile per-packet one-way delay: 170.263 ms

Loss rate: 16.92%

-- Flow 2:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 173.614 ms

Loss rate: 24.04%

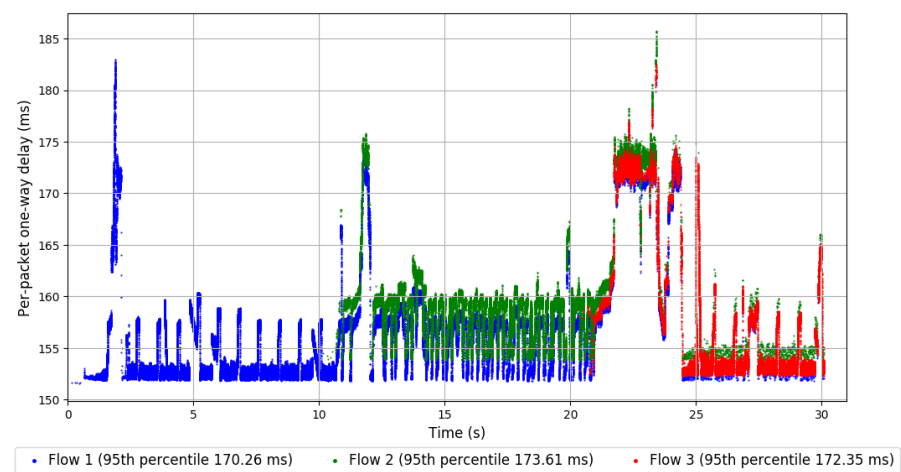
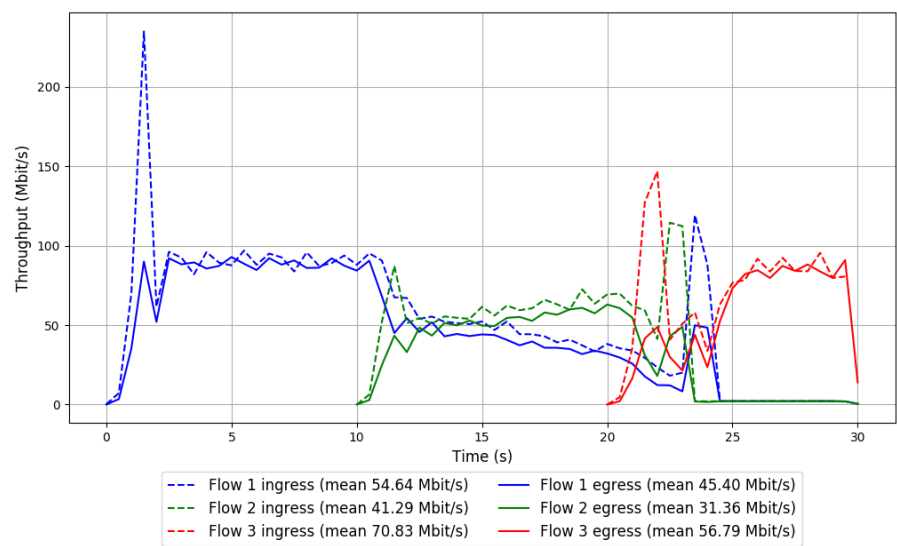
-- Flow 3:

Average throughput: 56.79 Mbit/s

95th percentile per-packet one-way delay: 172.349 ms

Loss rate: 19.85%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-11 00:17:47

End at: 2018-04-11 00:18:17

Local clock offset: 2.038 ms

Remote clock offset: 9.6 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 169.440 ms

Loss rate: 18.63%

-- Flow 1:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 165.702 ms

Loss rate: 16.54%

-- Flow 2:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 169.834 ms

Loss rate: 17.23%

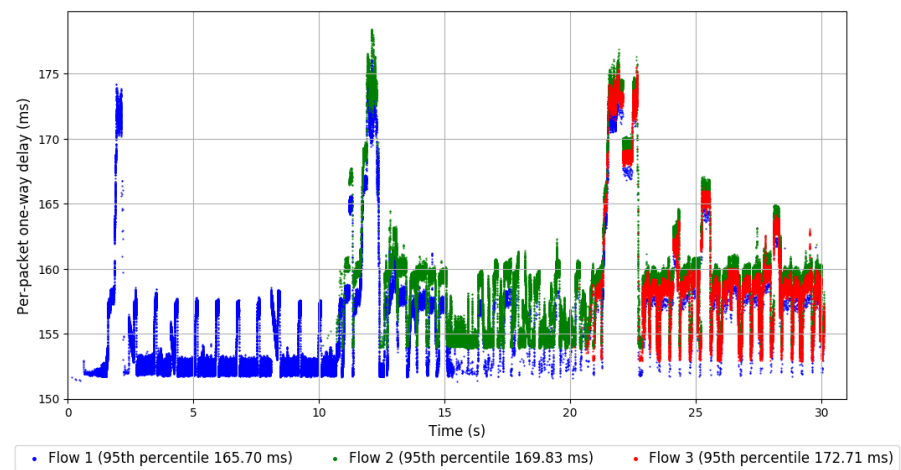
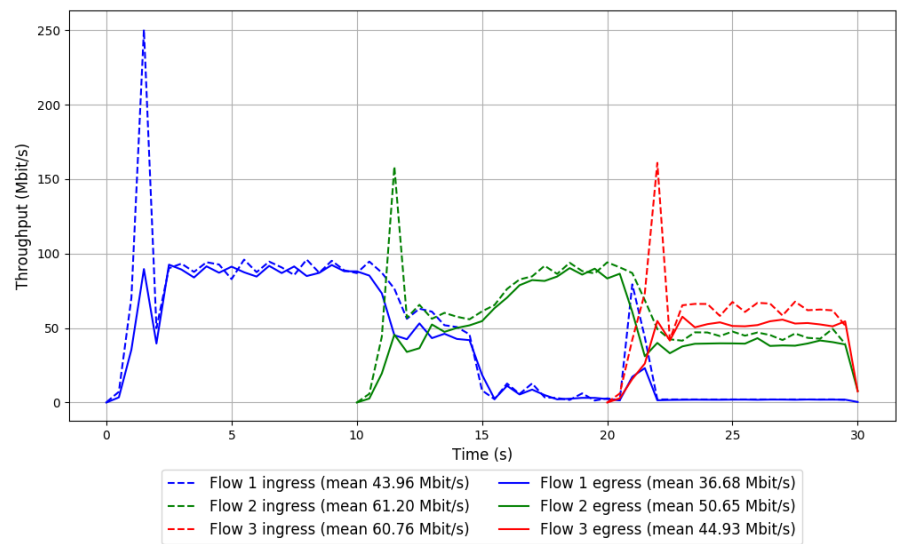
-- Flow 3:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 172.713 ms

Loss rate: 26.03%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-11 00:42:15

End at: 2018-04-11 00:42:45

Local clock offset: 30.29 ms

Remote clock offset: 0.671 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.89 Mbit/s

95th percentile per-packet one-way delay: 170.783 ms

Loss rate: 17.89%

-- Flow 1:

Average throughput: 49.52 Mbit/s

95th percentile per-packet one-way delay: 165.362 ms

Loss rate: 15.78%

-- Flow 2:

Average throughput: 27.19 Mbit/s

95th percentile per-packet one-way delay: 174.637 ms

Loss rate: 27.26%

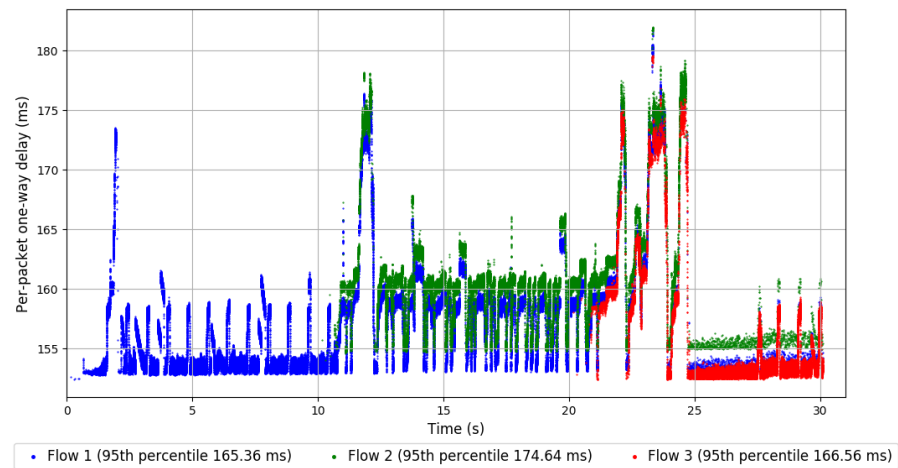
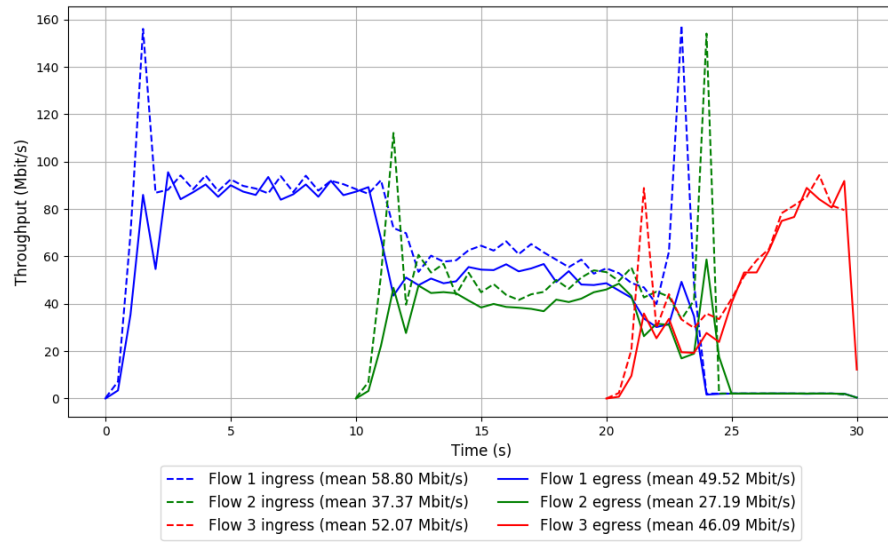
-- Flow 3:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 166.557 ms

Loss rate: 11.54%

Run 7: Report of FillP — Data Link

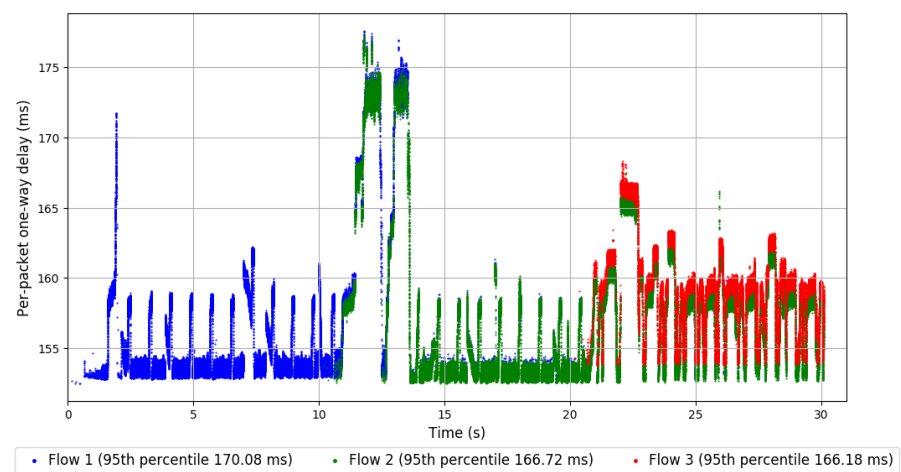
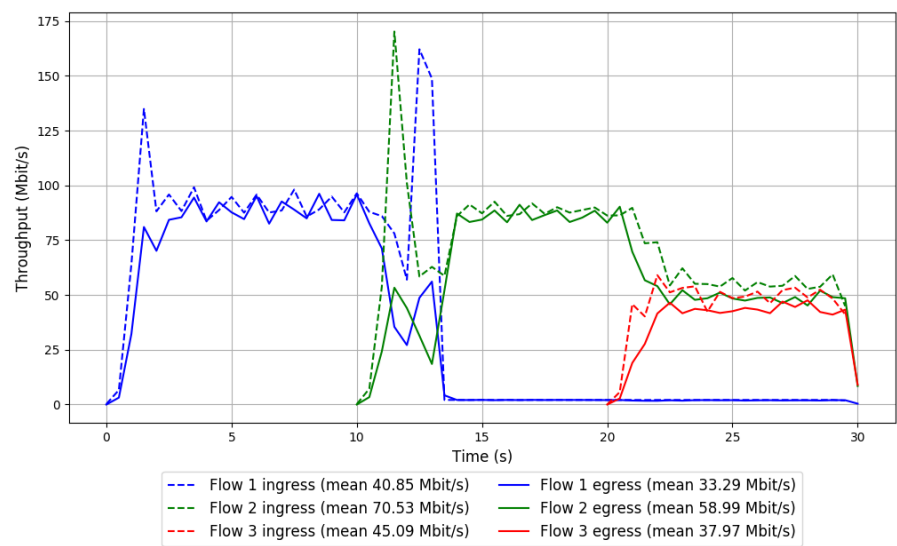


Run 8: Statistics of FillP

Start at: 2018-04-11 01:06:59
End at: 2018-04-11 01:07:29
Local clock offset: 45.317 ms
Remote clock offset: 0.253 ms

Below is generated by plot.py at 2018-04-11 03:01:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.16 Mbit/s
95th percentile per-packet one-way delay: 166.621 ms
Loss rate: 17.11%
-- Flow 1:
Average throughput: 33.29 Mbit/s
95th percentile per-packet one-way delay: 170.082 ms
Loss rate: 18.49%
-- Flow 2:
Average throughput: 58.99 Mbit/s
95th percentile per-packet one-way delay: 166.718 ms
Loss rate: 16.34%
-- Flow 3:
Average throughput: 37.97 Mbit/s
95th percentile per-packet one-way delay: 166.179 ms
Loss rate: 15.75%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-11 01:31:26

End at: 2018-04-11 01:31:56

Local clock offset: 56.824 ms

Remote clock offset: 4.152 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.73 Mbit/s

95th percentile per-packet one-way delay: 173.073 ms

Loss rate: 21.17%

-- Flow 1:

Average throughput: 33.10 Mbit/s

95th percentile per-packet one-way delay: 171.442 ms

Loss rate: 19.75%

-- Flow 2:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 173.901 ms

Loss rate: 24.67%

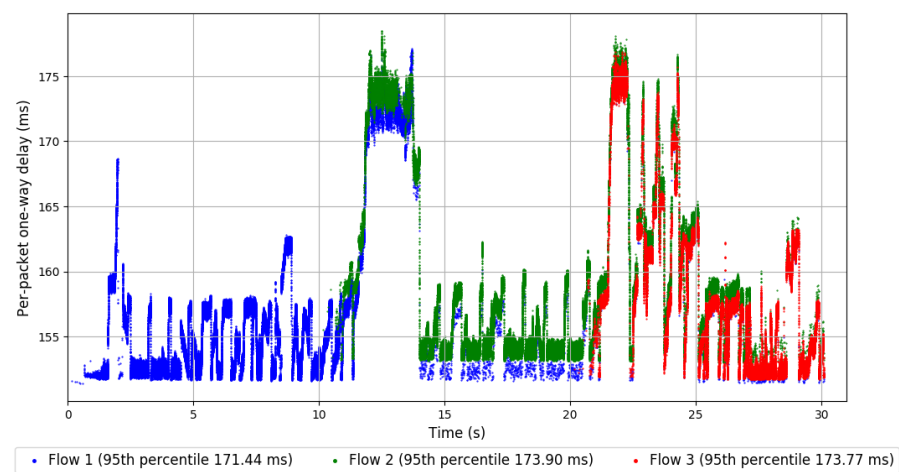
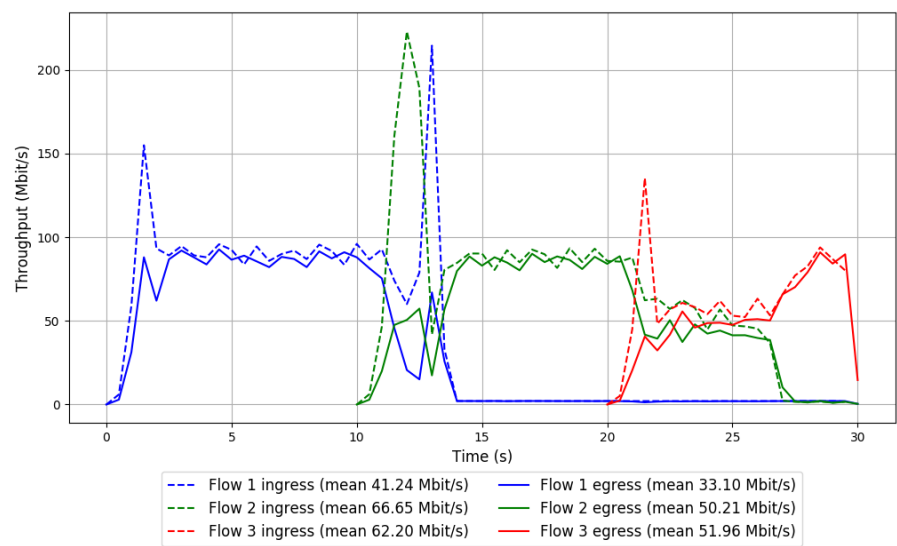
-- Flow 3:

Average throughput: 51.96 Mbit/s

95th percentile per-packet one-way delay: 173.772 ms

Loss rate: 16.46%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-11 01:56:00

End at: 2018-04-11 01:56:30

Local clock offset: 27.377 ms

Remote clock offset: 15.91 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 168.729 ms

Loss rate: 16.29%

-- Flow 1:

Average throughput: 33.24 Mbit/s

95th percentile per-packet one-way delay: 167.956 ms

Loss rate: 17.44%

-- Flow 2:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: 172.463 ms

Loss rate: 17.15%

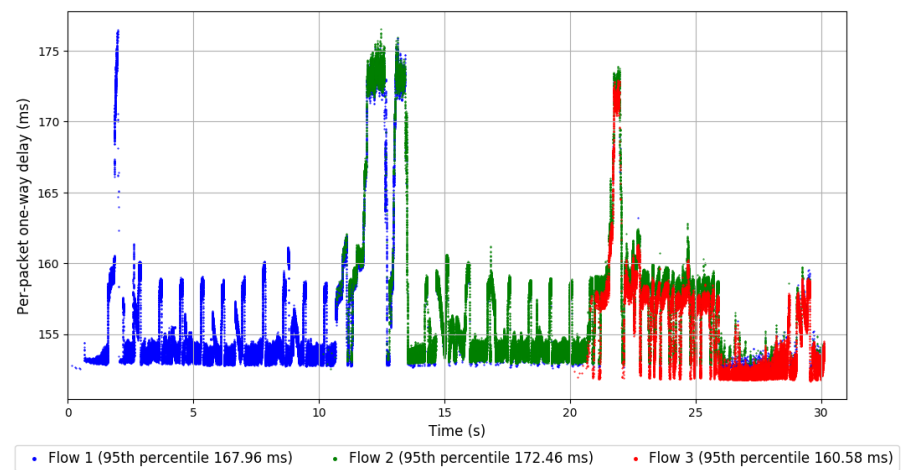
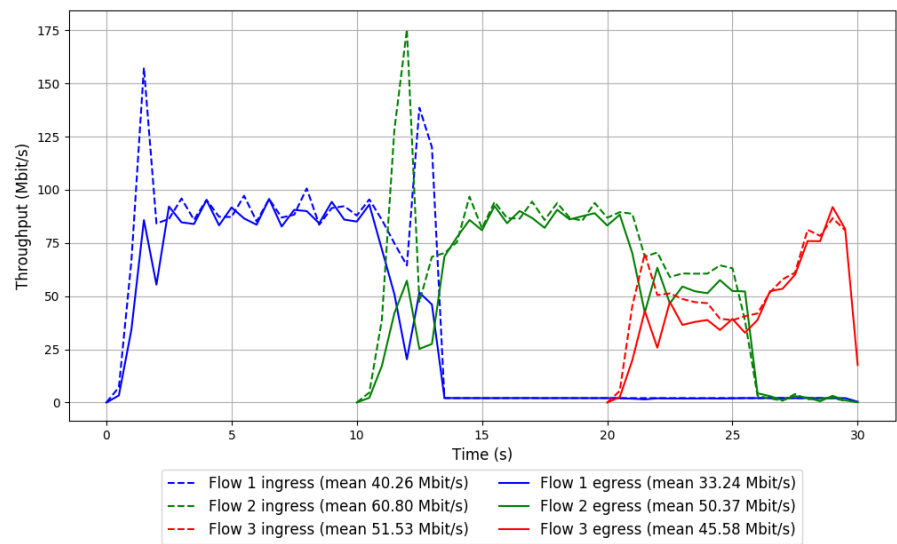
-- Flow 3:

Average throughput: 45.58 Mbit/s

95th percentile per-packet one-way delay: 160.576 ms

Loss rate: 11.53%

Run 10: Report of FillP — Data Link

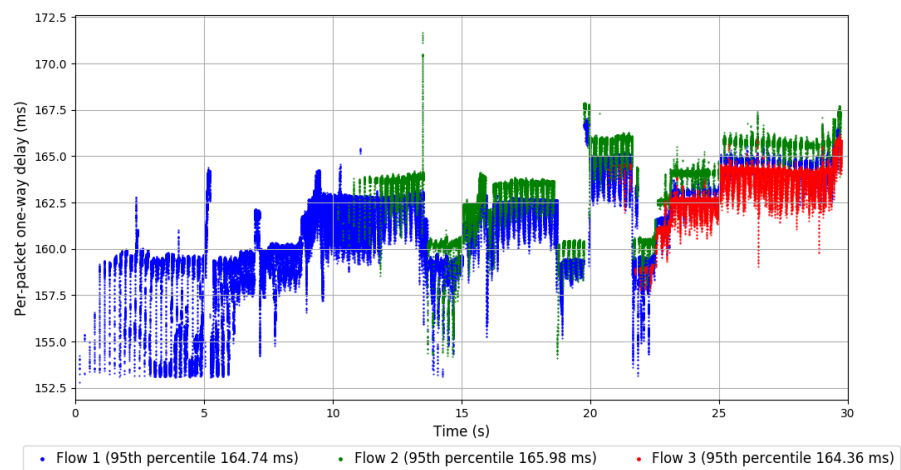
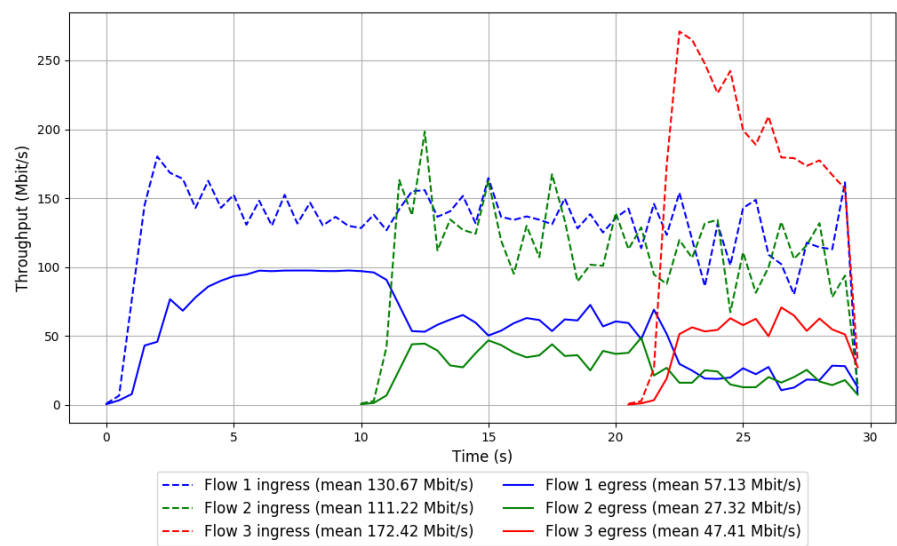


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 22:35:49
End at: 2018-04-10 22:36:19
Local clock offset: 1.43 ms
Remote clock offset: 3.344 ms

# Below is generated by plot.py at 2018-04-11 03:01:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 165.624 ms
Loss rate: 65.08%
-- Flow 1:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 164.736 ms
Loss rate: 56.26%
-- Flow 2:
Average throughput: 27.32 Mbit/s
95th percentile per-packet one-way delay: 165.983 ms
Loss rate: 75.43%
-- Flow 3:
Average throughput: 47.41 Mbit/s
95th percentile per-packet one-way delay: 164.360 ms
Loss rate: 72.50%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 23:00:14

End at: 2018-04-10 23:00:44

Local clock offset: 1.743 ms

Remote clock offset: 2.583 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.14 Mbit/s

95th percentile per-packet one-way delay: 166.587 ms

Loss rate: 63.78%

-- Flow 1:

Average throughput: 62.79 Mbit/s

95th percentile per-packet one-way delay: 166.510 ms

Loss rate: 52.46%

-- Flow 2:

Average throughput: 27.62 Mbit/s

95th percentile per-packet one-way delay: 166.610 ms

Loss rate: 76.26%

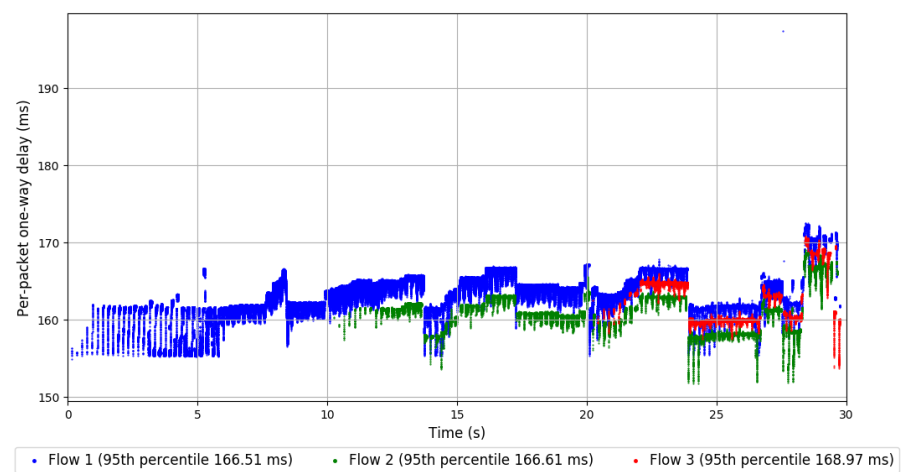
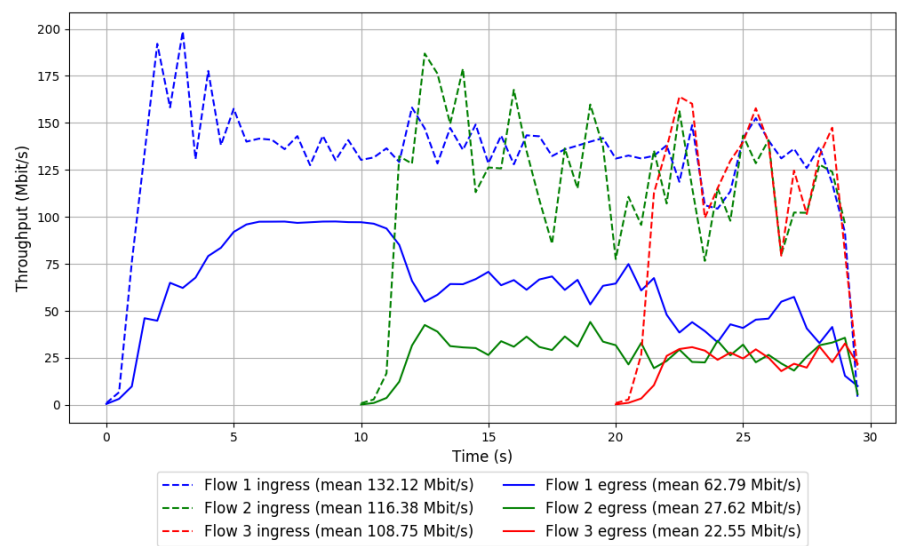
-- Flow 3:

Average throughput: 22.55 Mbit/s

95th percentile per-packet one-way delay: 168.973 ms

Loss rate: 79.27%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 23:24:47

End at: 2018-04-10 23:25:17

Local clock offset: 1.947 ms

Remote clock offset: 2.309 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 164.978 ms

Loss rate: 64.66%

-- Flow 1:

Average throughput: 61.05 Mbit/s

95th percentile per-packet one-way delay: 164.968 ms

Loss rate: 52.19%

-- Flow 2:

Average throughput: 27.73 Mbit/s

95th percentile per-packet one-way delay: 164.883 ms

Loss rate: 75.79%

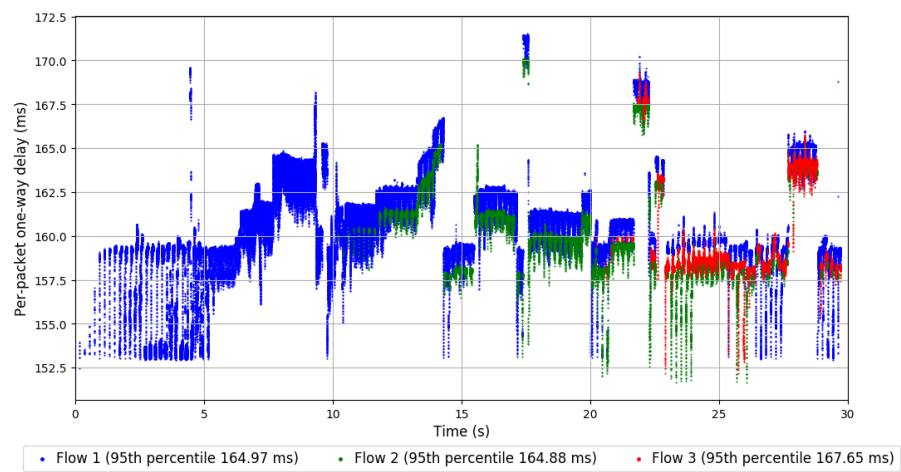
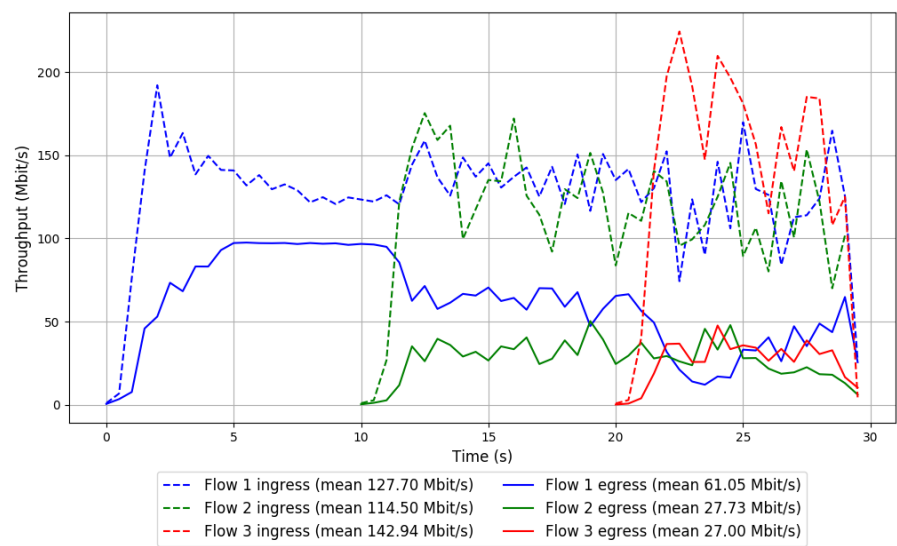
-- Flow 3:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 167.649 ms

Loss rate: 81.12%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 23:49:10

End at: 2018-04-10 23:49:40

Local clock offset: 2.057 ms

Remote clock offset: 4.027 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 164.860 ms

Loss rate: 64.58%

-- Flow 1:

Average throughput: 60.97 Mbit/s

95th percentile per-packet one-way delay: 164.730 ms

Loss rate: 53.84%

-- Flow 2:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 164.932 ms

Loss rate: 76.04%

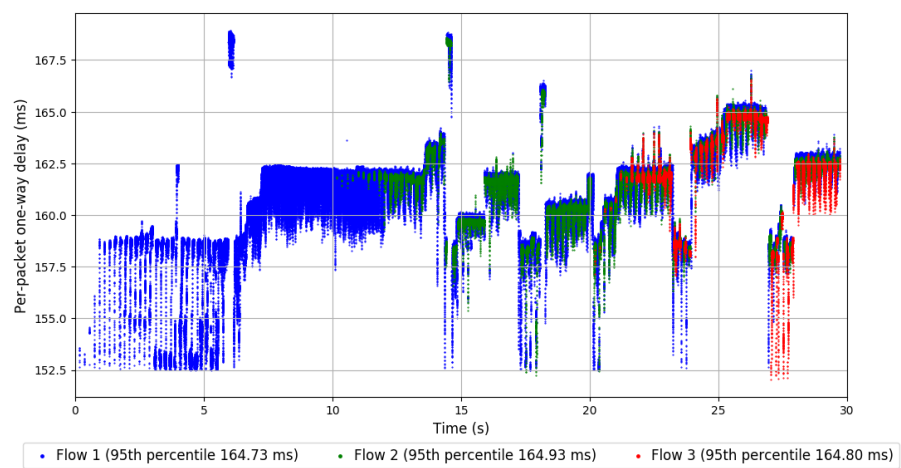
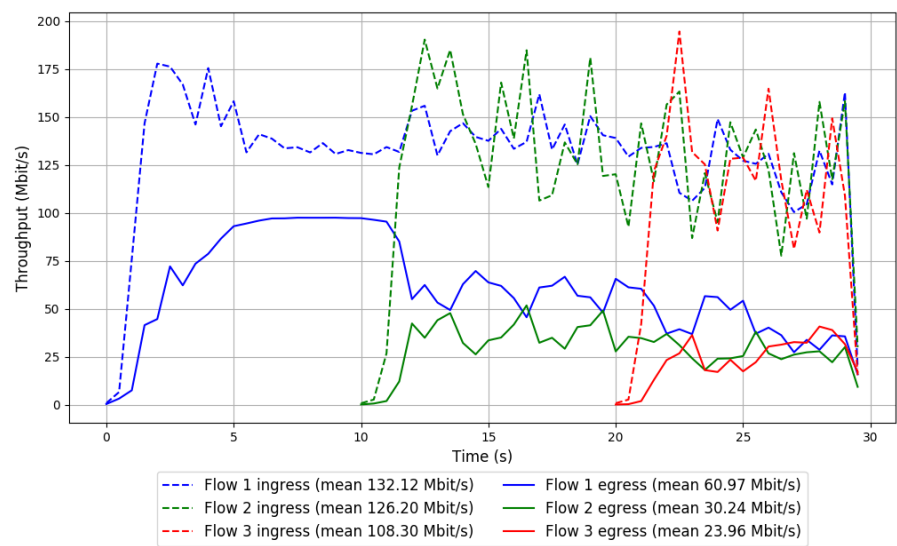
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 164.796 ms

Loss rate: 77.86%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-11 00:13:44

End at: 2018-04-11 00:14:14

Local clock offset: 1.823 ms

Remote clock offset: 9.099 ms

Below is generated by plot.py at 2018-04-11 03:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 165.225 ms

Loss rate: 58.59%

-- Flow 1:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 164.978 ms

Loss rate: 52.75%

-- Flow 2:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 166.381 ms

Loss rate: 59.90%

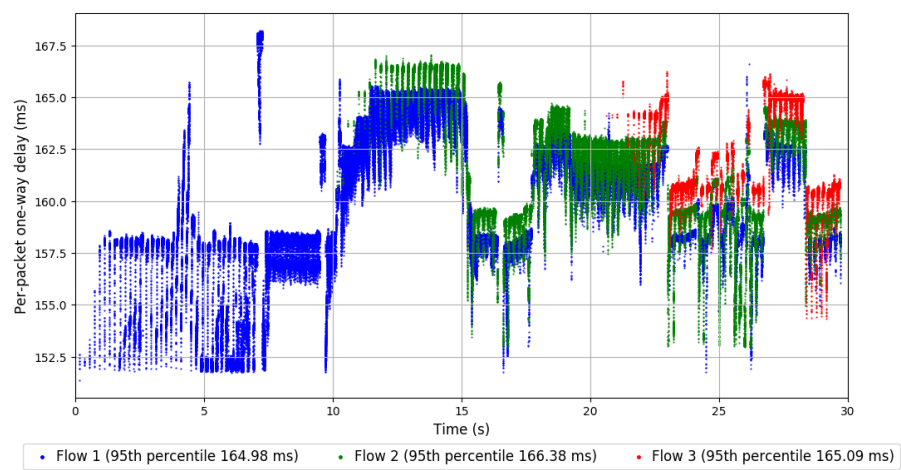
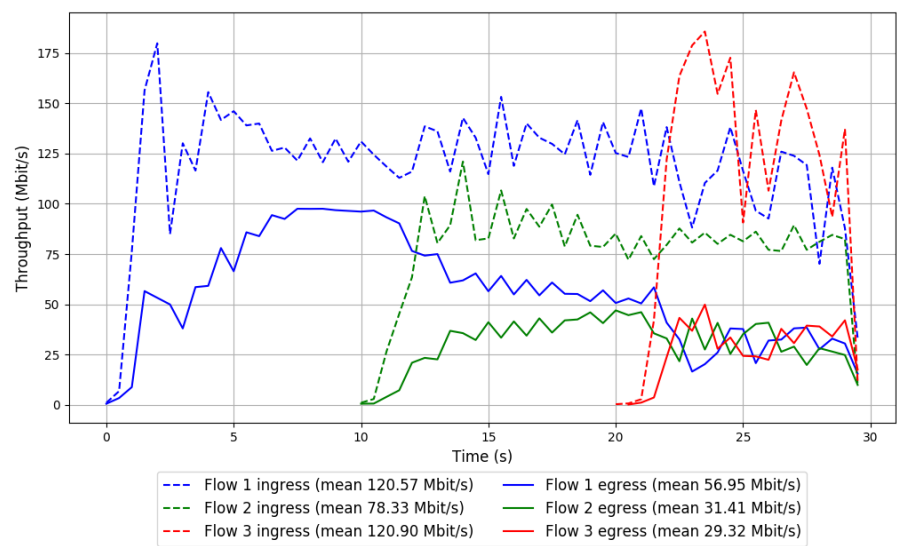
-- Flow 3:

Average throughput: 29.32 Mbit/s

95th percentile per-packet one-way delay: 165.089 ms

Loss rate: 75.76%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-11 00:38:12

End at: 2018-04-11 00:38:42

Local clock offset: 25.937 ms

Remote clock offset: 1.209 ms

Below is generated by plot.py at 2018-04-11 03:01:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.33 Mbit/s

95th percentile per-packet one-way delay: 166.908 ms

Loss rate: 62.27%

-- Flow 1:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 162.647 ms

Loss rate: 50.55%

-- Flow 2:

Average throughput: 25.90 Mbit/s

95th percentile per-packet one-way delay: 168.645 ms

Loss rate: 75.86%

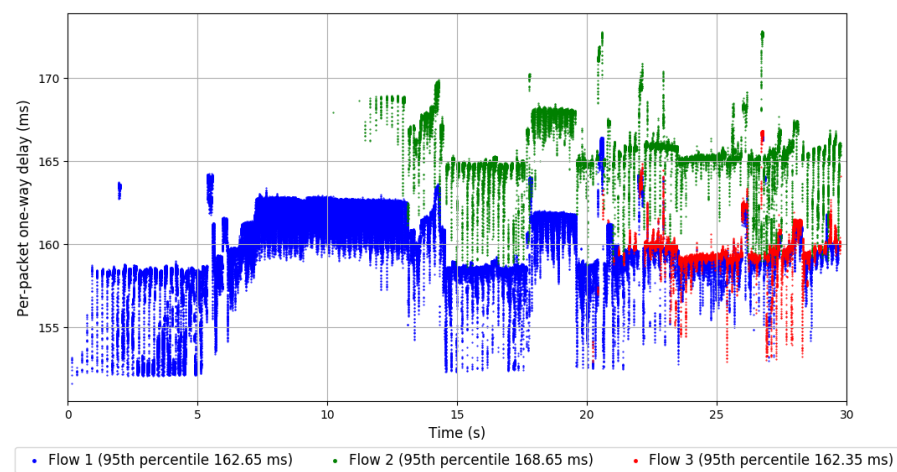
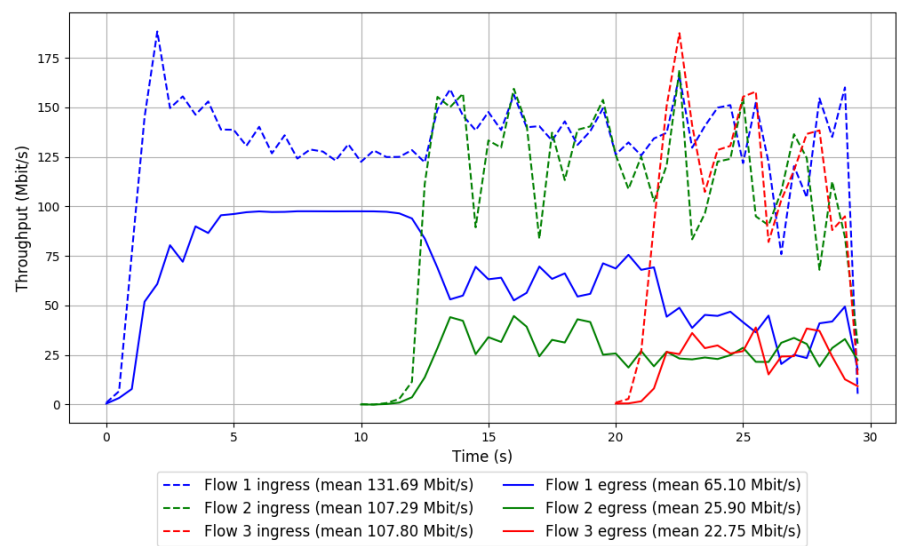
-- Flow 3:

Average throughput: 22.75 Mbit/s

95th percentile per-packet one-way delay: 162.346 ms

Loss rate: 78.88%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-11 01:02:56

End at: 2018-04-11 01:03:26

Local clock offset: 43.413 ms

Remote clock offset: 0.202 ms

Below is generated by plot.py at 2018-04-11 03:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 167.626 ms

Loss rate: 62.75%

-- Flow 1:

Average throughput: 63.02 Mbit/s

95th percentile per-packet one-way delay: 168.015 ms

Loss rate: 50.01%

-- Flow 2:

Average throughput: 28.19 Mbit/s

95th percentile per-packet one-way delay: 164.612 ms

Loss rate: 76.03%

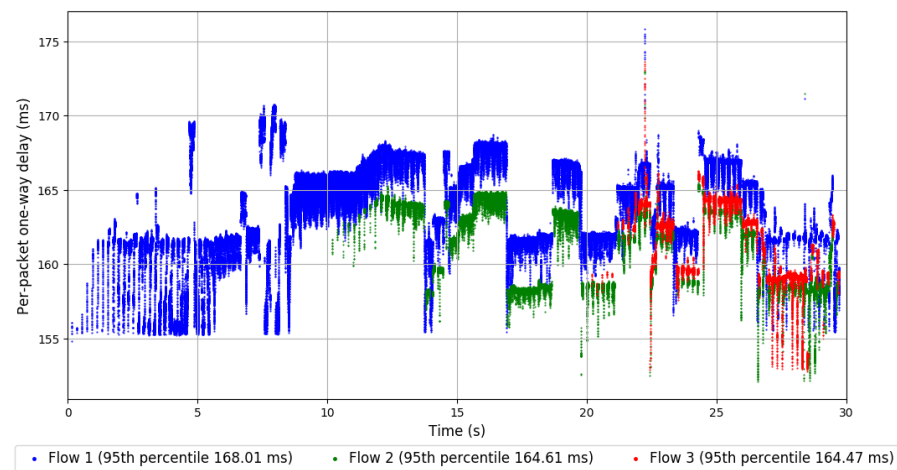
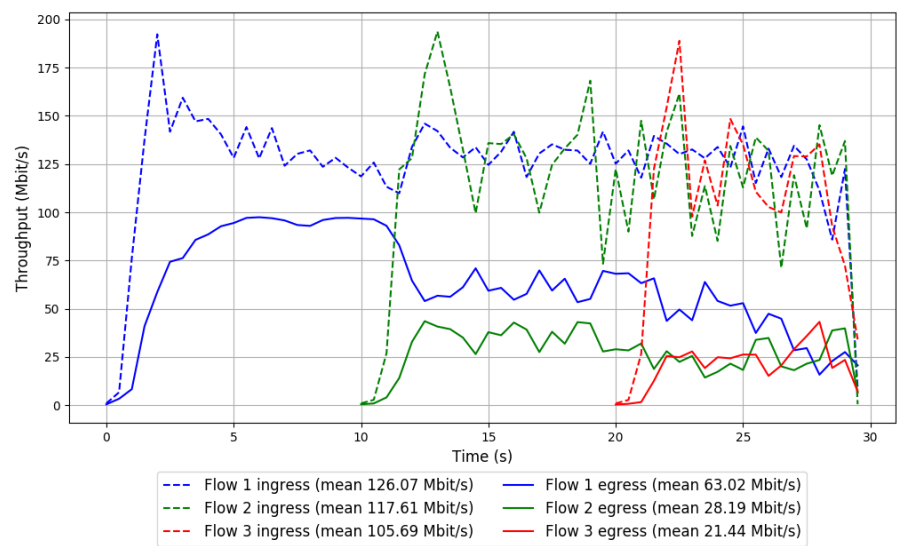
-- Flow 3:

Average throughput: 21.44 Mbit/s

95th percentile per-packet one-way delay: 164.468 ms

Loss rate: 79.71%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-11 01:27:14

End at: 2018-04-11 01:27:44

Local clock offset: 54.915 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-04-11 03:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.34 Mbit/s

95th percentile per-packet one-way delay: 163.403 ms

Loss rate: 63.47%

-- Flow 1:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 162.843 ms

Loss rate: 52.06%

-- Flow 2:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 163.941 ms

Loss rate: 75.44%

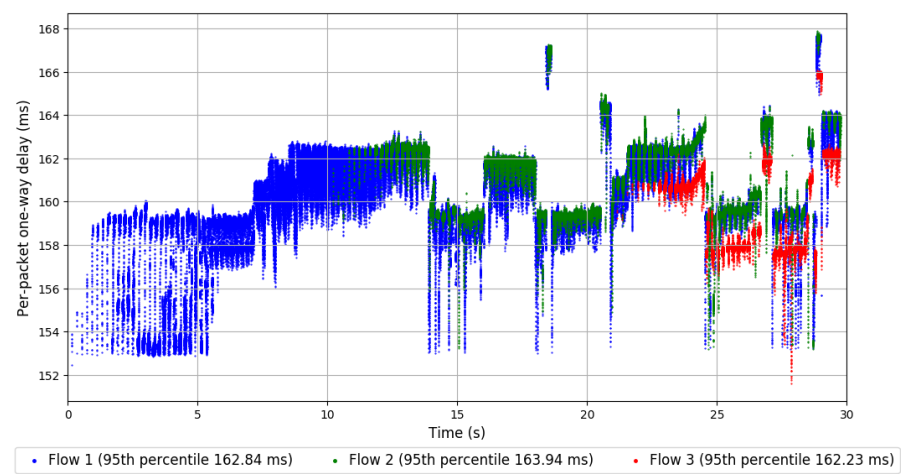
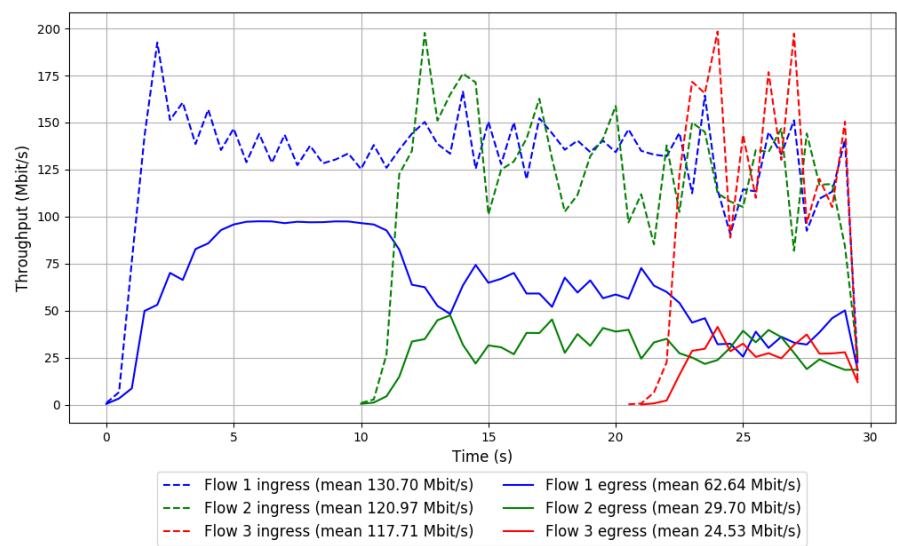
-- Flow 3:

Average throughput: 24.53 Mbit/s

95th percentile per-packet one-way delay: 162.233 ms

Loss rate: 79.16%

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

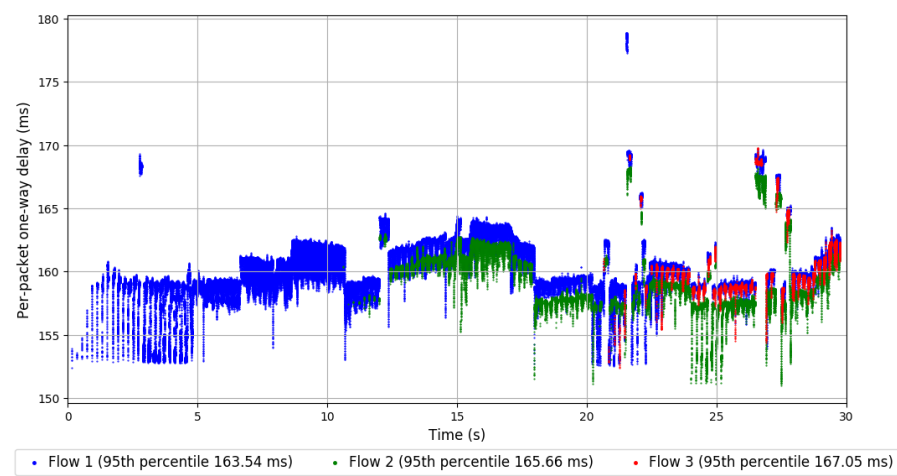
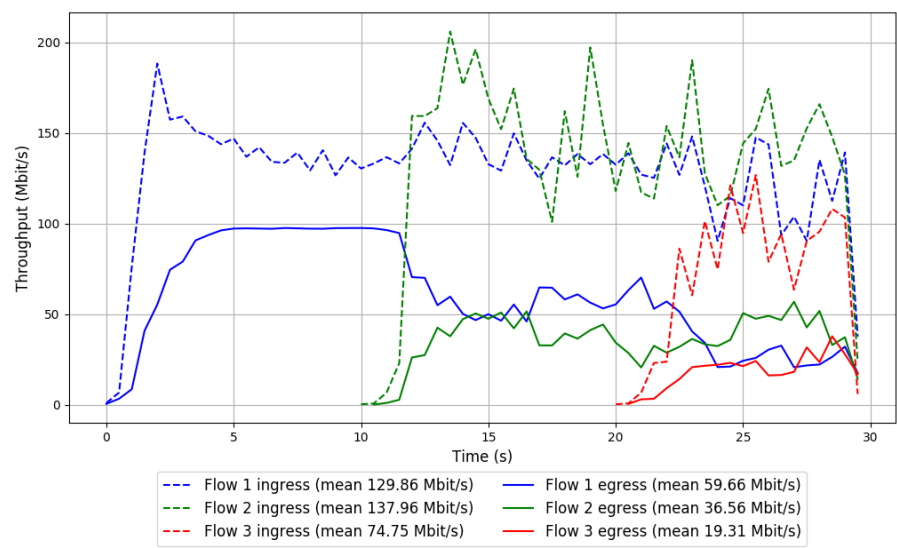


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-11 01:51:58
End at: 2018-04-11 01:52:28
Local clock offset: 29.531 ms
Remote clock offset: 14.948 ms

Below is generated by plot.py at 2018-04-11 03:03:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.19 Mbit/s
95th percentile per-packet one-way delay: 163.651 ms
Loss rate: 63.12%
-- Flow 1:
Average throughput: 59.66 Mbit/s
95th percentile per-packet one-way delay: 163.536 ms
Loss rate: 54.04%
-- Flow 2:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 165.660 ms
Loss rate: 73.50%
-- Flow 3:
Average throughput: 19.31 Mbit/s
95th percentile per-packet one-way delay: 167.047 ms
Loss rate: 74.16%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-11 02:16:15

End at: 2018-04-11 02:16:45

Local clock offset: 13.413 ms

Remote clock offset: 3.127 ms

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

Figure is missing

Figure is missing

Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 22:23:32

End at: 2018-04-10 22:24:02

Local clock offset: 1.439 ms

Remote clock offset: 1.642 ms

Below is generated by plot.py at 2018-04-11 03:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.01 Mbit/s

95th percentile per-packet one-way delay: 164.518 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 65.52 Mbit/s

95th percentile per-packet one-way delay: 164.483 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 13.88 Mbit/s

95th percentile per-packet one-way delay: 164.856 ms

Loss rate: 0.91%

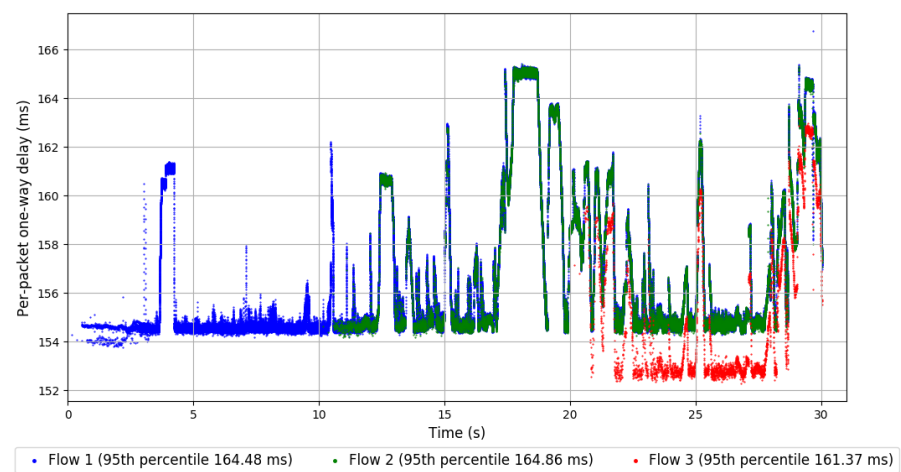
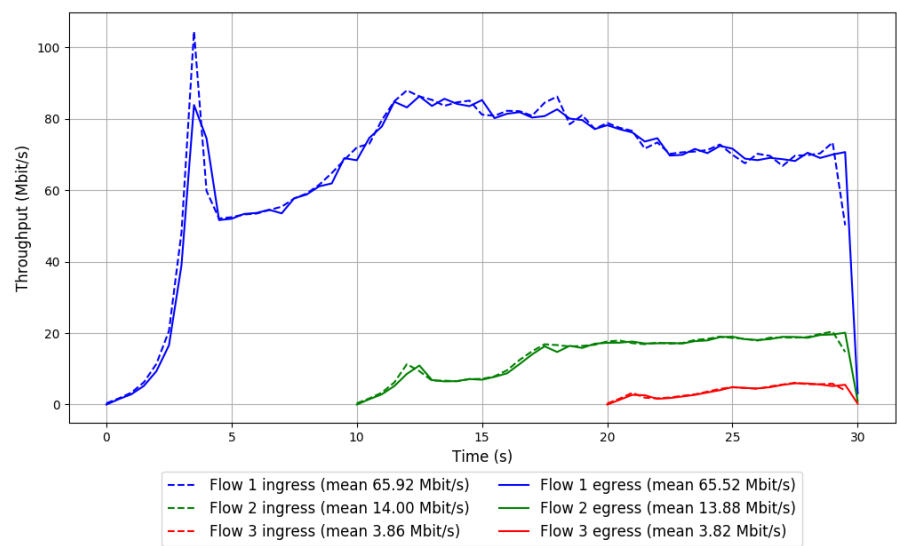
-- Flow 3:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 161.371 ms

Loss rate: 0.95%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 22:47:57

End at: 2018-04-10 22:48:27

Local clock offset: 1.475 ms

Remote clock offset: 2.656 ms

Below is generated by plot.py at 2018-04-11 03:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 159.846 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 65.81 Mbit/s

95th percentile per-packet one-way delay: 159.887 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 159.332 ms

Loss rate: 0.32%

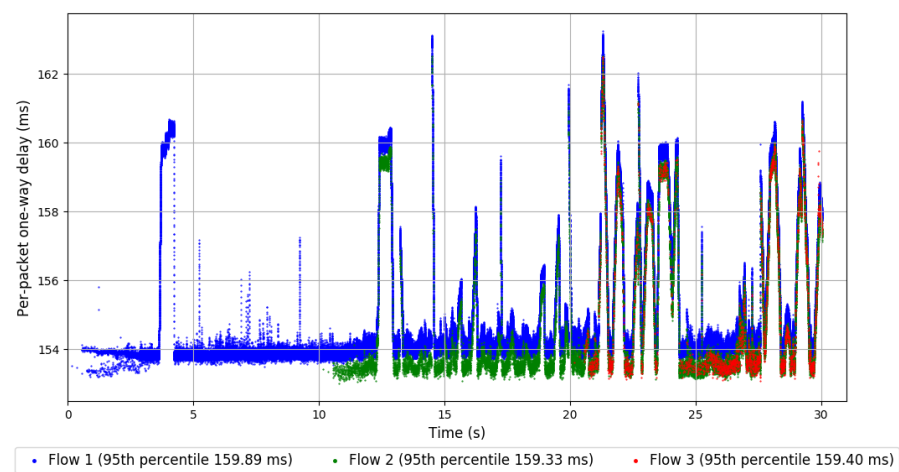
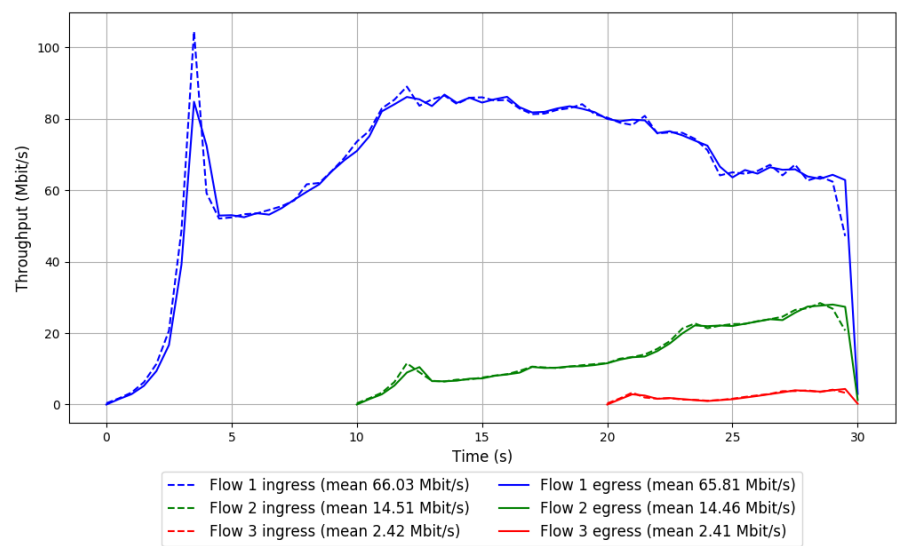
-- Flow 3:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 159.399 ms

Loss rate: 0.36%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 23:12:29

End at: 2018-04-10 23:12:59

Local clock offset: 1.778 ms

Remote clock offset: 2.851 ms

Below is generated by plot.py at 2018-04-11 03:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 160.463 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 67.85 Mbit/s

95th percentile per-packet one-way delay: 160.409 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 160.697 ms

Loss rate: 1.00%

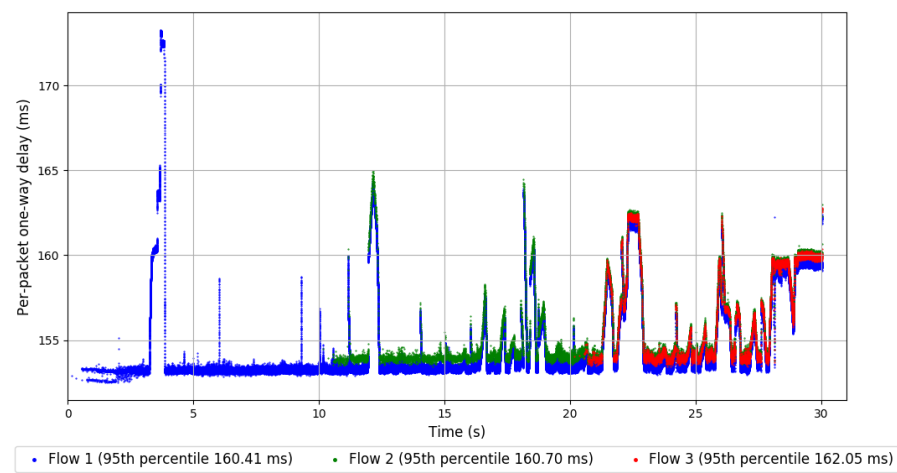
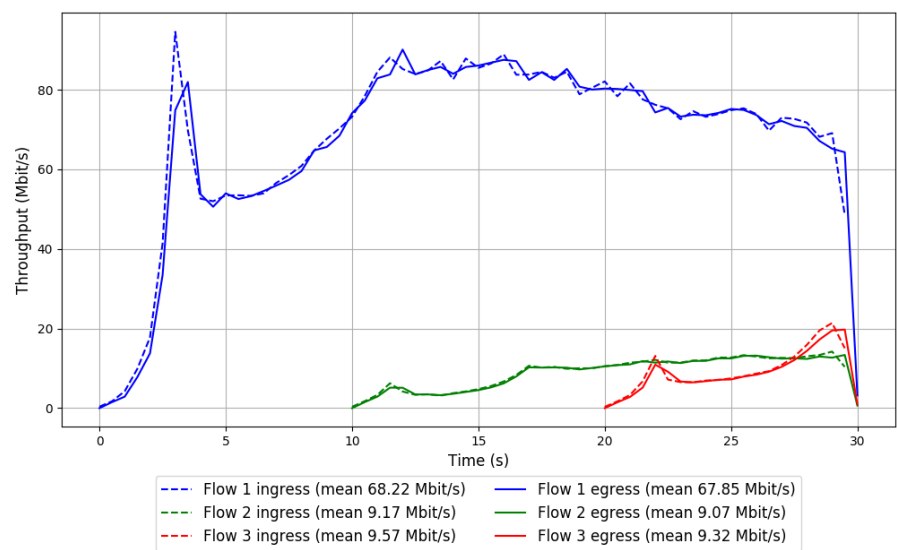
-- Flow 3:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 162.051 ms

Loss rate: 2.58%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 23:36:55

End at: 2018-04-10 23:37:25

Local clock offset: 1.987 ms

Remote clock offset: 2.374 ms

Below is generated by plot.py at 2018-04-11 03:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 159.085 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 67.85 Mbit/s

95th percentile per-packet one-way delay: 159.147 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 157.914 ms

Loss rate: 0.32%

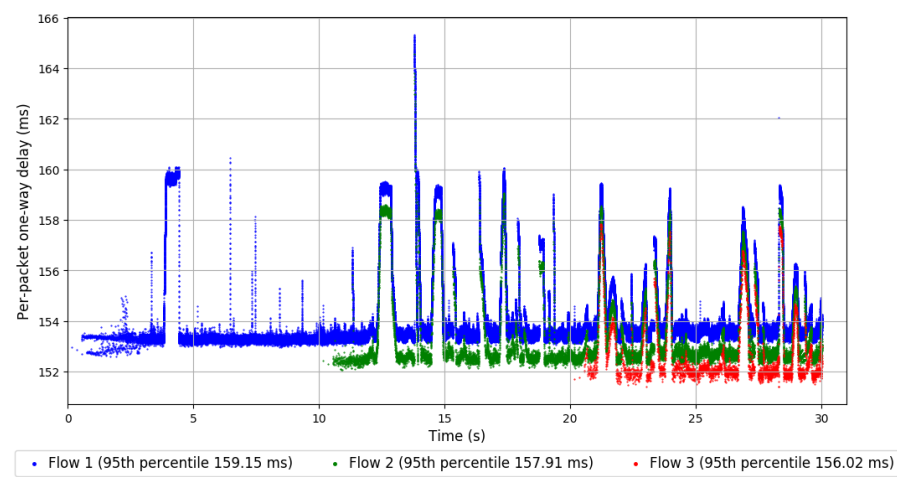
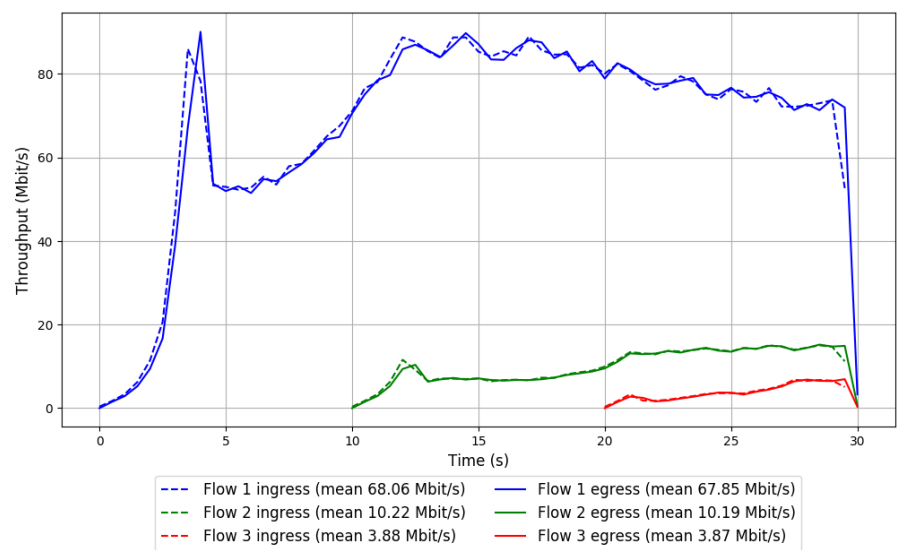
-- Flow 3:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 156.016 ms

Loss rate: 0.09%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-11 00:01:18

End at: 2018-04-11 00:01:48

Local clock offset: 1.872 ms

Remote clock offset: 7.299 ms

Below is generated by plot.py at 2018-04-11 03:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.18 Mbit/s

95th percentile per-packet one-way delay: 159.941 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 67.05 Mbit/s

95th percentile per-packet one-way delay: 159.668 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 162.009 ms

Loss rate: 0.32%

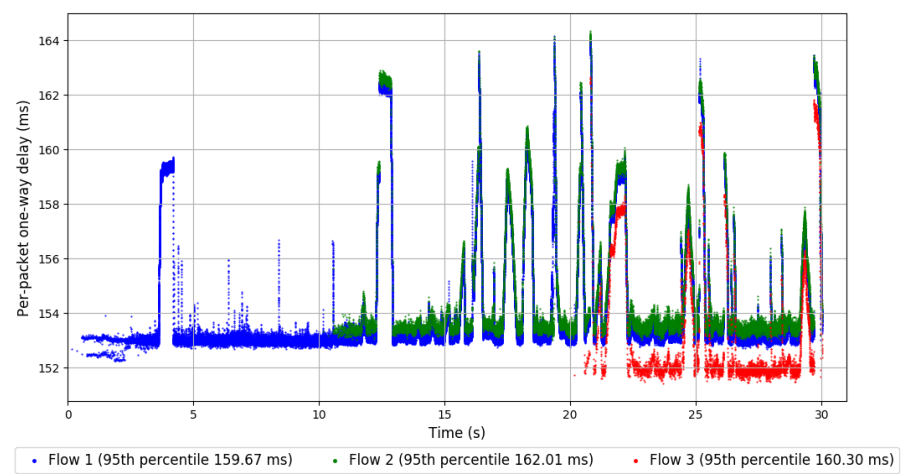
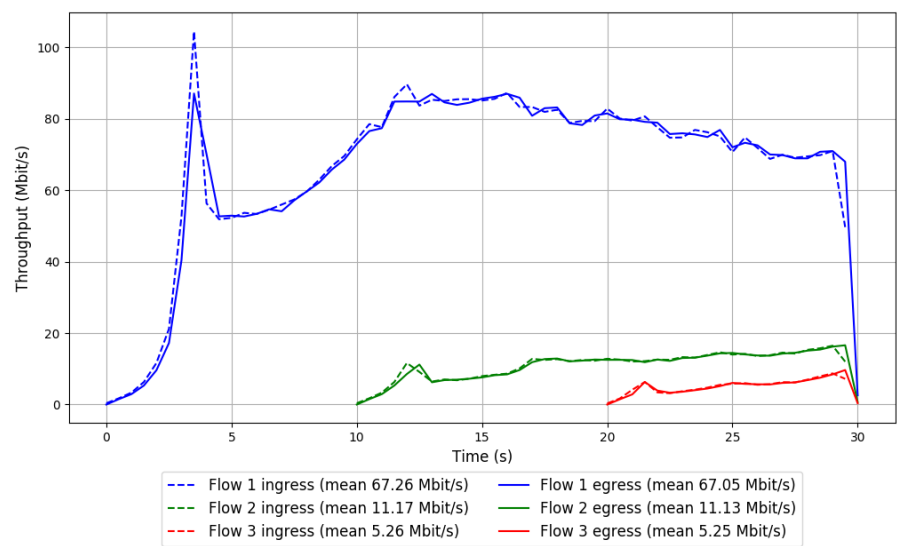
-- Flow 3:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 160.298 ms

Loss rate: 0.16%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-11 00:25:51

End at: 2018-04-11 00:26:21

Local clock offset: 2.069 ms

Remote clock offset: 5.178 ms

Below is generated by plot.py at 2018-04-11 03:03:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 159.380 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 159.318 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 160.051 ms

Loss rate: 1.09%

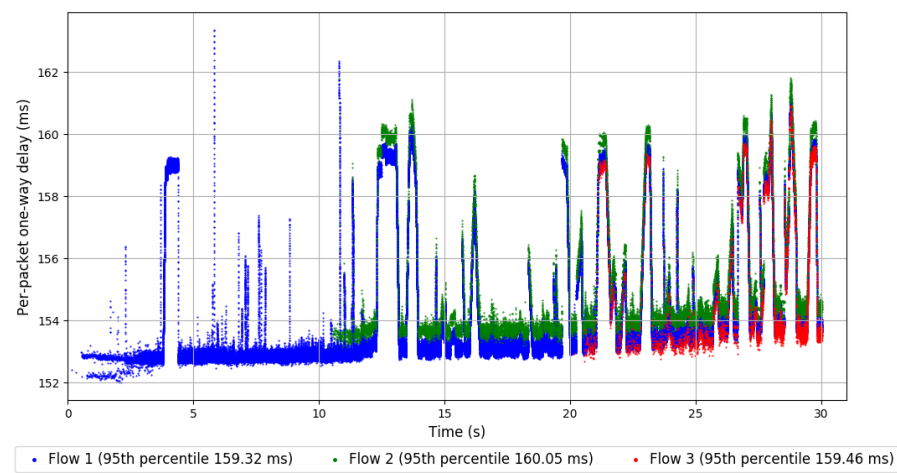
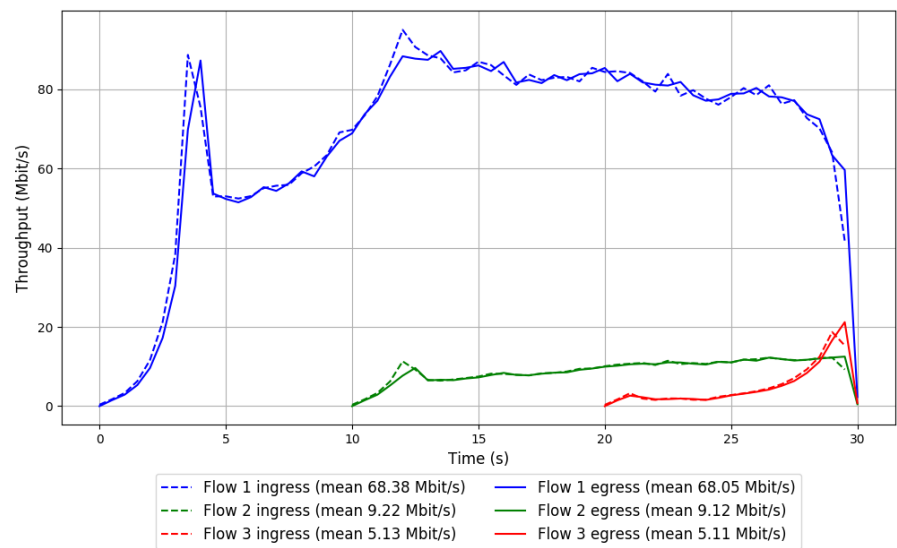
-- Flow 3:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 159.458 ms

Loss rate: 0.35%

Run 6: Report of Vivace-latency — Data Link

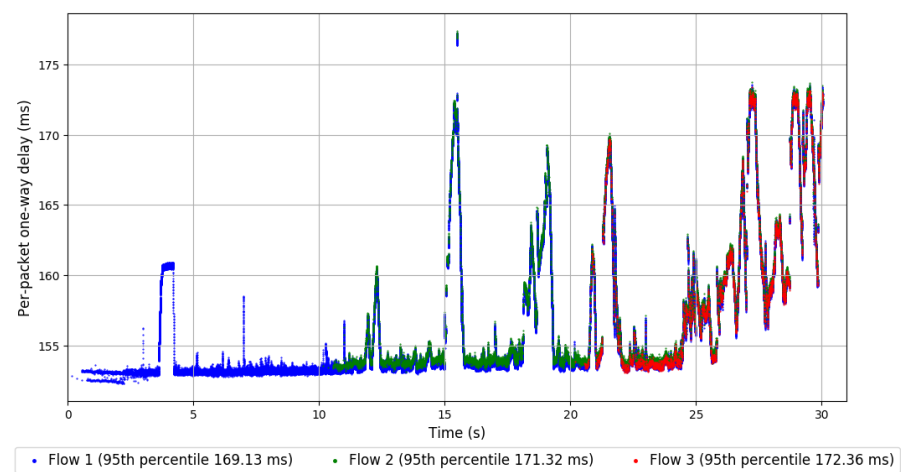
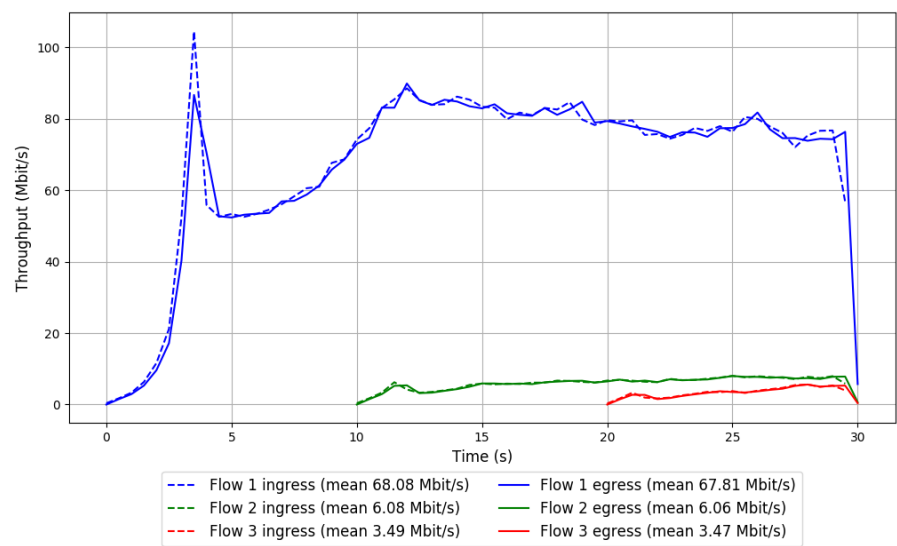


Run 7: Statistics of Vivace-latency

Start at: 2018-04-11 00:50:28
End at: 2018-04-11 00:50:58
Local clock offset: 36.429 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-04-11 03:03:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.98 Mbit/s
95th percentile per-packet one-way delay: 169.420 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 67.81 Mbit/s
95th percentile per-packet one-way delay: 169.131 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 171.322 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 172.359 ms
Loss rate: 0.37%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-11 01:15:01

End at: 2018-04-11 01:15:31

Local clock offset: 49.281 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-04-11 03:03:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.93 Mbit/s

95th percentile per-packet one-way delay: 160.587 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 69.72 Mbit/s

95th percentile per-packet one-way delay: 159.427 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 164.939 ms

Loss rate: 0.23%

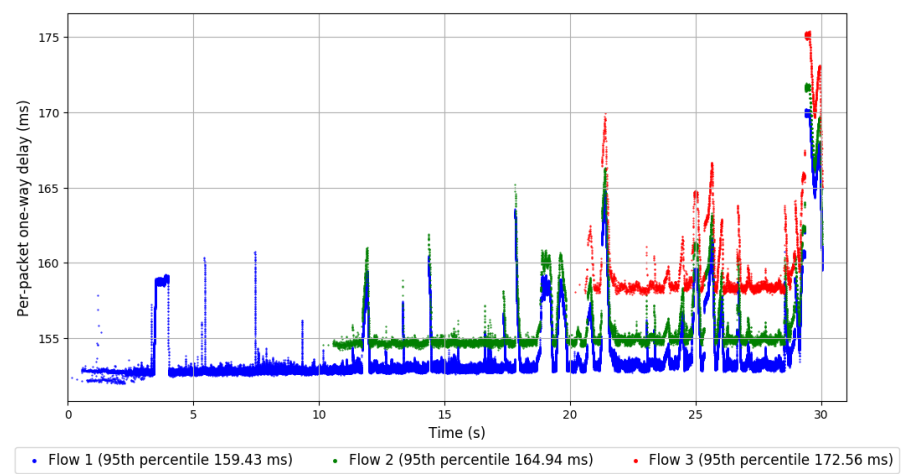
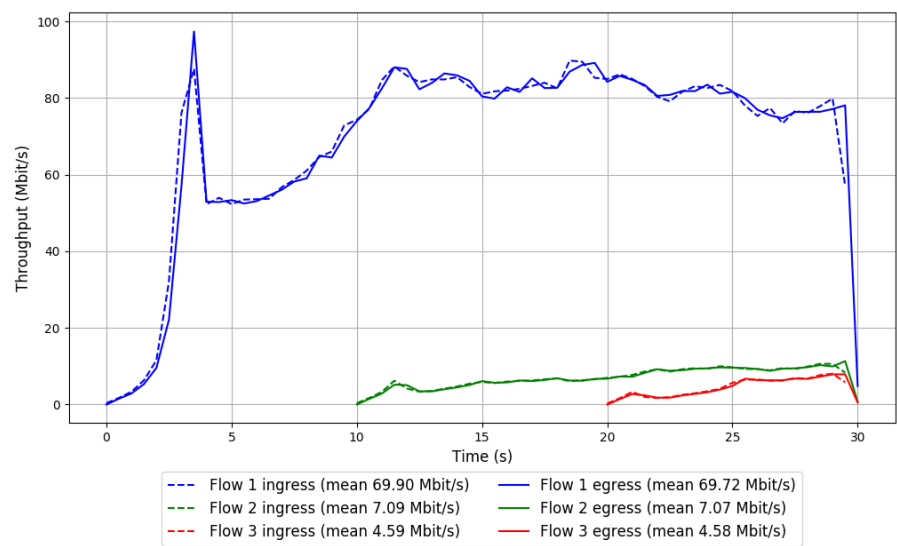
-- Flow 3:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 172.564 ms

Loss rate: 0.24%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-11 01:39:41

End at: 2018-04-11 01:40:11

Local clock offset: 45.534 ms

Remote clock offset: 10.74 ms

Below is generated by plot.py at 2018-04-11 03:03:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 162.500 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 162.540 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 163.084 ms

Loss rate: 0.92%

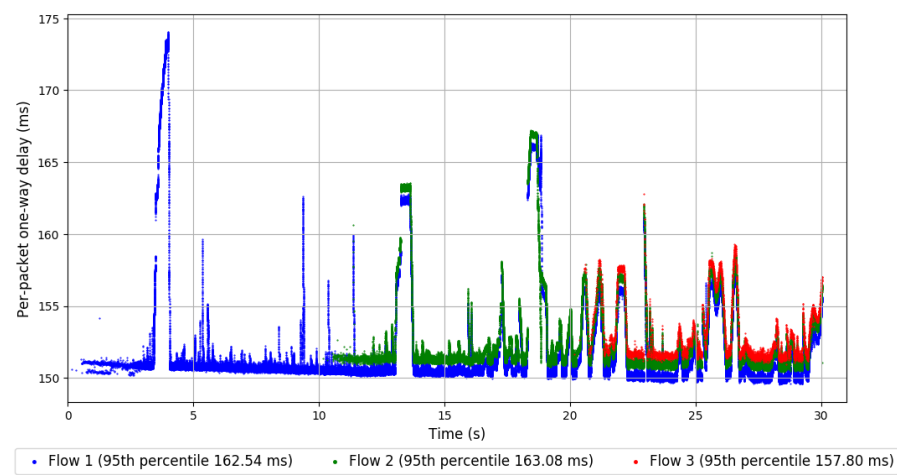
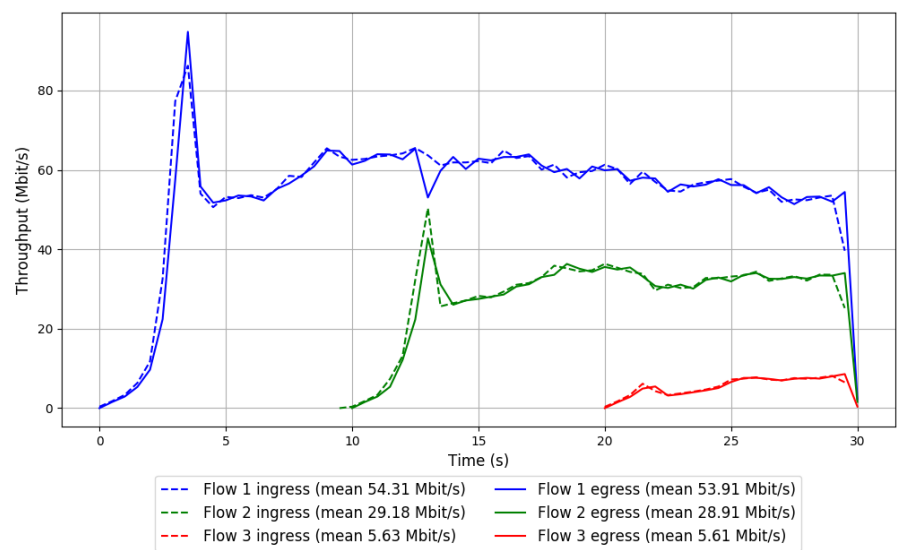
-- Flow 3:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 157.800 ms

Loss rate: 0.36%

Run 9: Report of Vivace-latency — Data Link

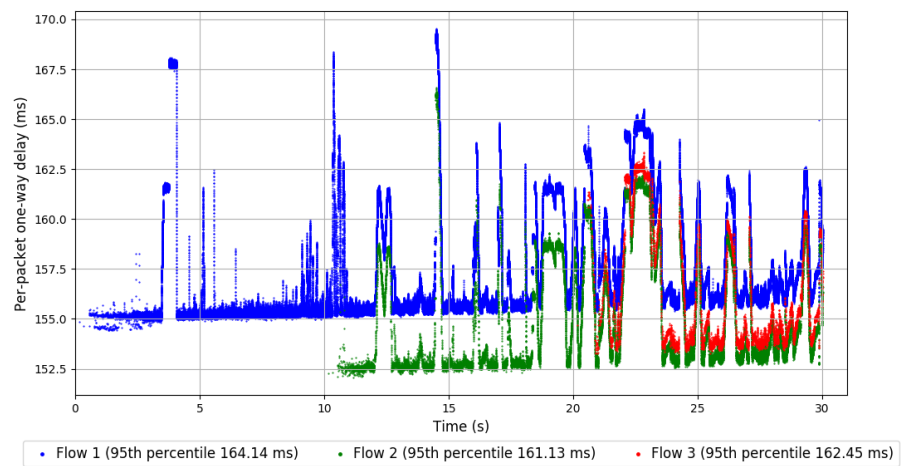
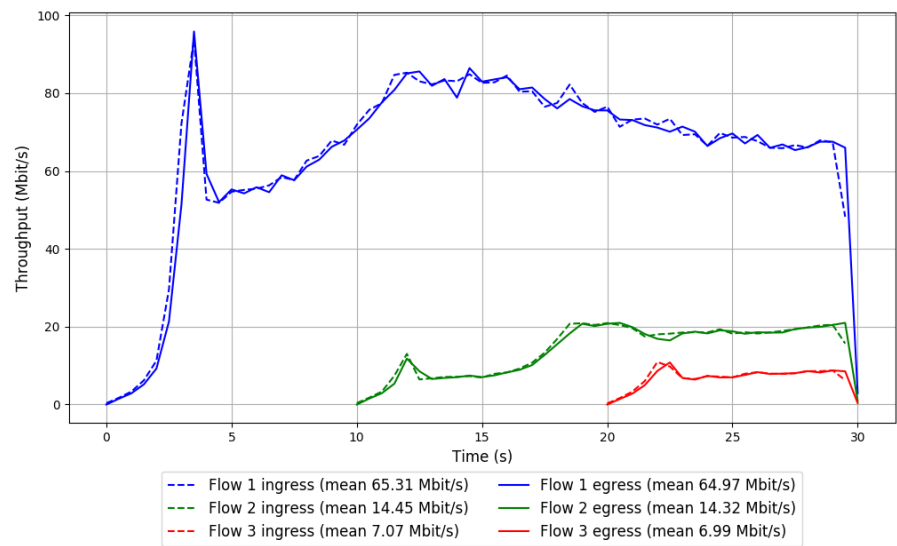


Run 10: Statistics of Vivace-latency

Start at: 2018-04-11 02:04:04
End at: 2018-04-11 02:04:34
Local clock offset: 24.555 ms
Remote clock offset: 14.335 ms

Below is generated by plot.py at 2018-04-11 03:04:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.79 Mbit/s
95th percentile per-packet one-way delay: 163.474 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 64.97 Mbit/s
95th percentile per-packet one-way delay: 164.142 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 161.127 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 162.450 ms
Loss rate: 1.11%

Run 10: Report of Vivace-latency — Data Link

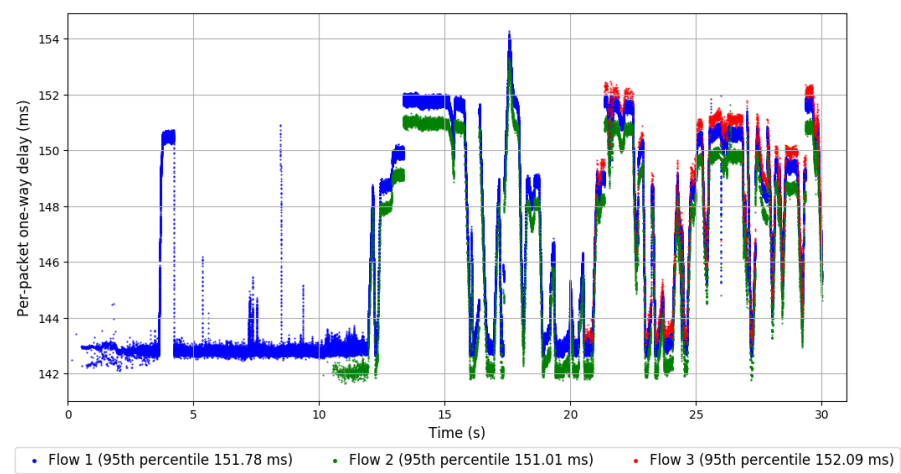
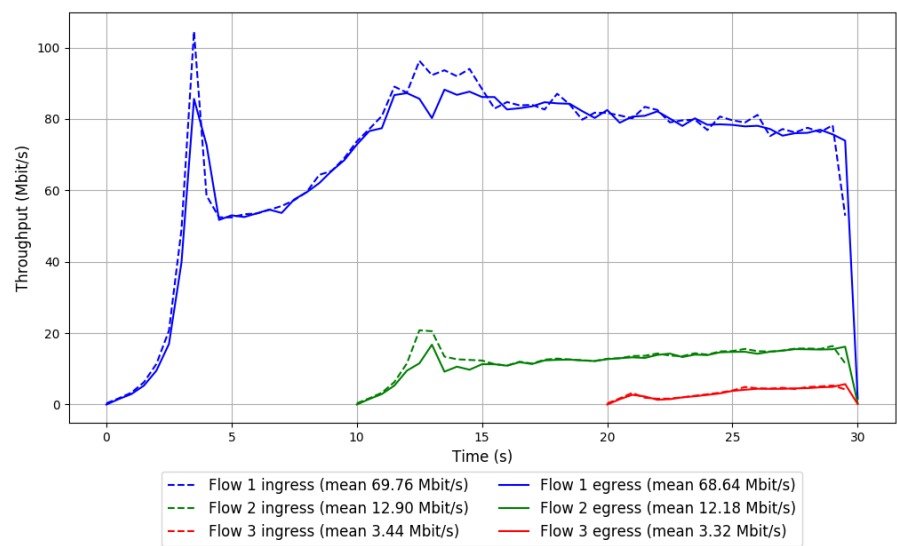


Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 22:17:57
End at: 2018-04-10 22:18:27
Local clock offset: 1.77 ms
Remote clock offset: -10.337 ms

Below is generated by plot.py at 2018-04-11 03:04:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.84 Mbit/s
95th percentile per-packet one-way delay: 151.768 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 68.64 Mbit/s
95th percentile per-packet one-way delay: 151.780 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 151.010 ms
Loss rate: 5.52%
-- Flow 3:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 152.095 ms
Loss rate: 3.32%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 22:42:31

End at: 2018-04-10 22:43:01

Local clock offset: 1.385 ms

Remote clock offset: 2.88 ms

Below is generated by plot.py at 2018-04-11 03:04:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.28 Mbit/s

95th percentile per-packet one-way delay: 168.541 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 68.91 Mbit/s

95th percentile per-packet one-way delay: 168.201 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 12.39 Mbit/s

95th percentile per-packet one-way delay: 171.490 ms

Loss rate: 2.53%

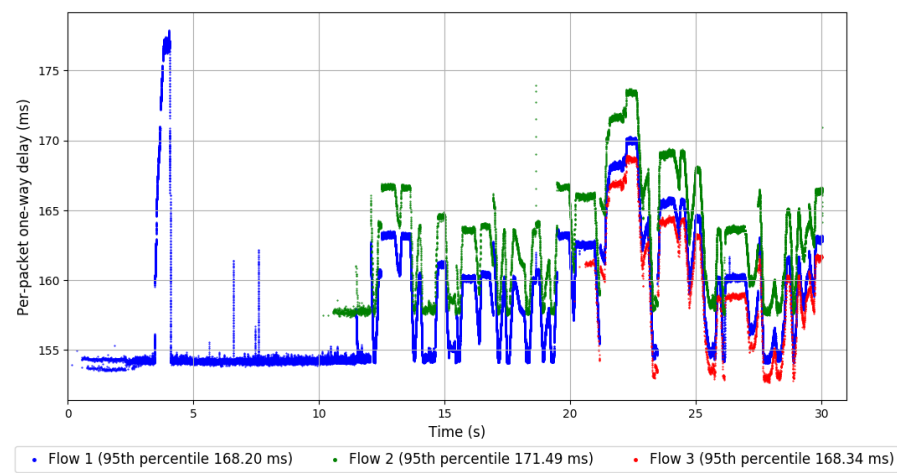
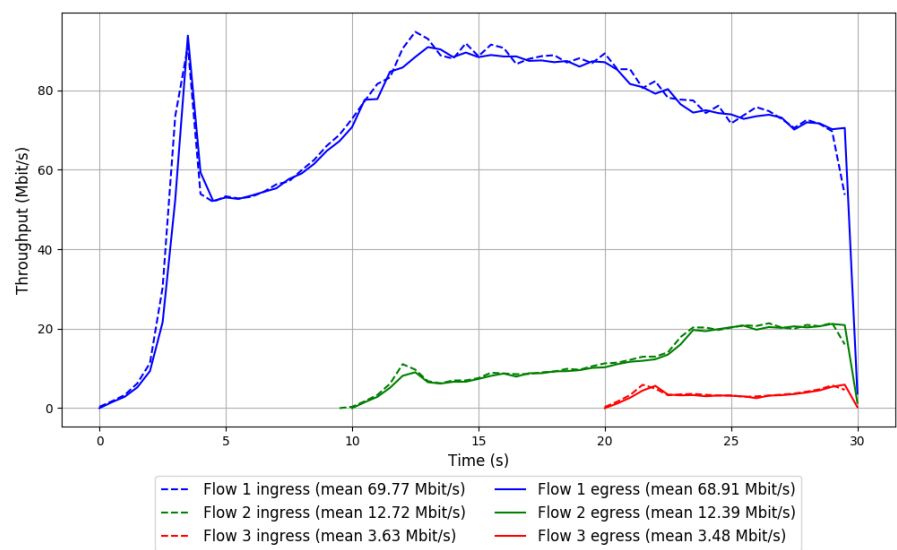
-- Flow 3:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 168.335 ms

Loss rate: 4.11%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 23:06:57

End at: 2018-04-10 23:07:27

Local clock offset: 1.991 ms

Remote clock offset: 2.735 ms

Below is generated by plot.py at 2018-04-11 03:04:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 162.309 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 71.60 Mbit/s

95th percentile per-packet one-way delay: 162.216 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 163.384 ms

Loss rate: 3.11%

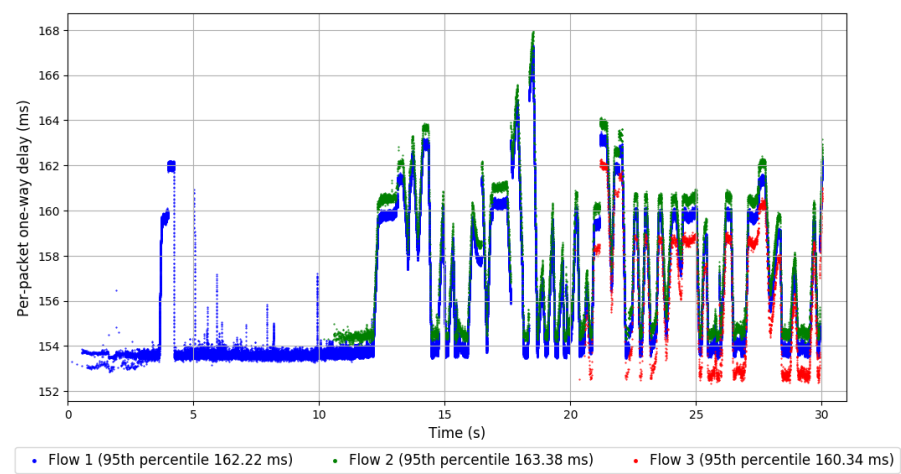
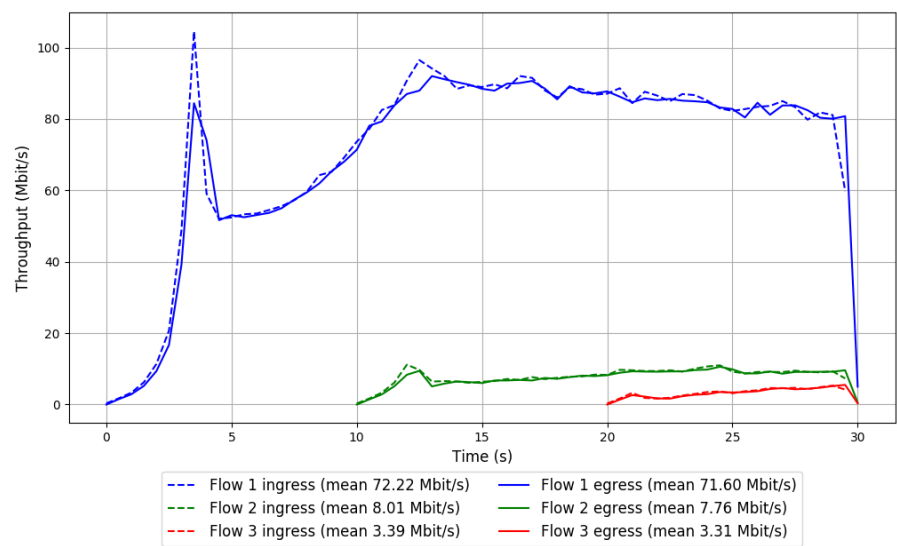
-- Flow 3:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 160.335 ms

Loss rate: 2.57%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 23:31:29

End at: 2018-04-10 23:31:59

Local clock offset: 1.88 ms

Remote clock offset: 2.402 ms

Below is generated by plot.py at 2018-04-11 03:04:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 176.320 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 176.171 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 176.958 ms

Loss rate: 3.85%

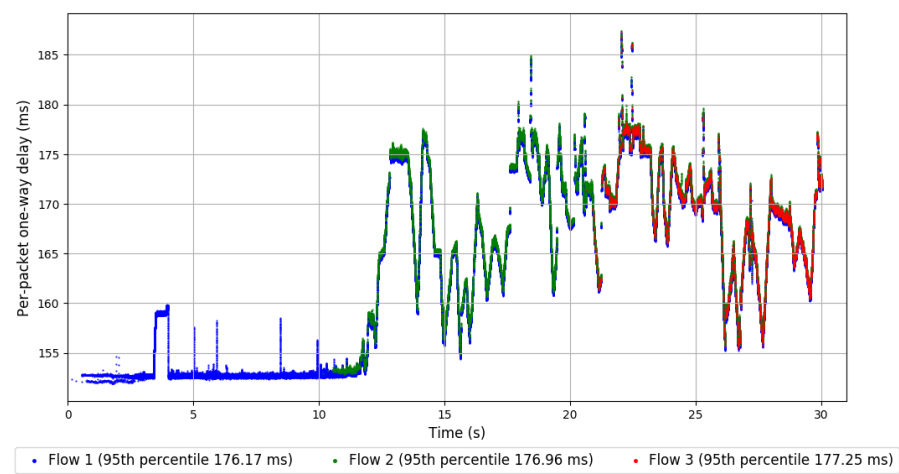
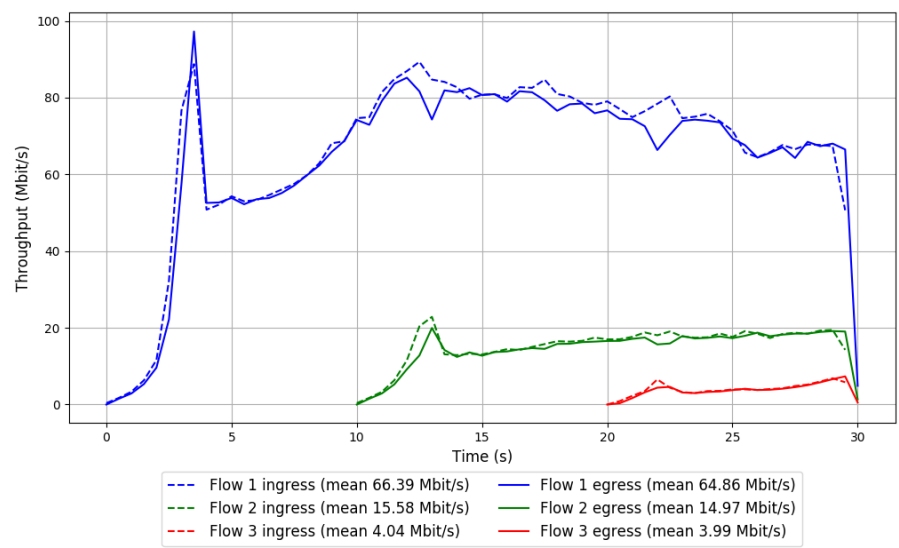
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 177.255 ms

Loss rate: 3.83%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 23:55:52

End at: 2018-04-10 23:56:22

Local clock offset: 1.912 ms

Remote clock offset: 6.235 ms

Below is generated by plot.py at 2018-04-11 03:05:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 163.134 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 70.57 Mbit/s

95th percentile per-packet one-way delay: 162.370 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 8.91 Mbit/s

95th percentile per-packet one-way delay: 162.893 ms

Loss rate: 2.83%

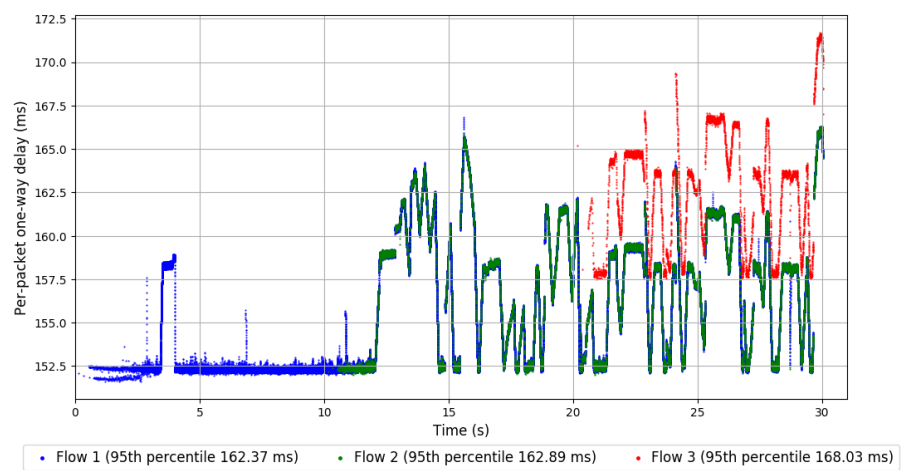
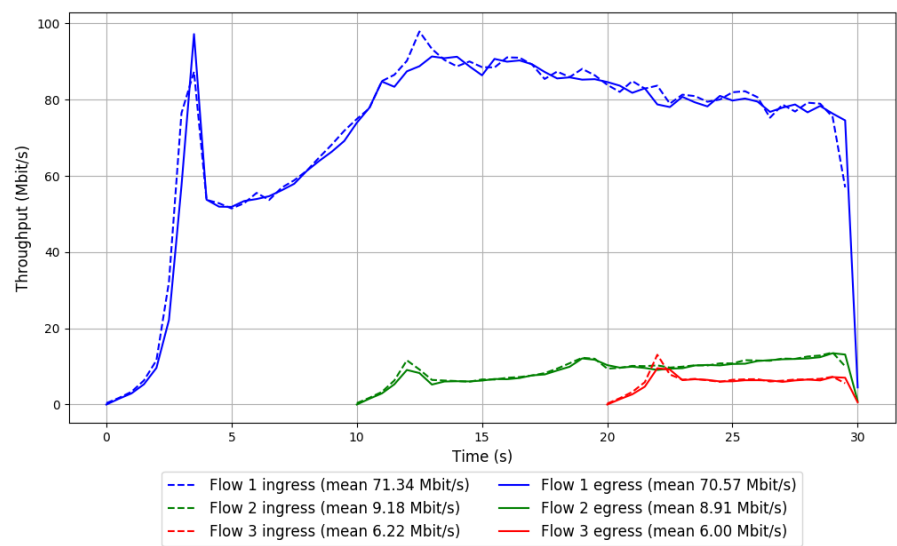
-- Flow 3:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 168.032 ms

Loss rate: 3.51%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-11 00:20:25

End at: 2018-04-11 00:20:55

Local clock offset: 1.928 ms

Remote clock offset: 9.577 ms

Below is generated by plot.py at 2018-04-11 03:05:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.05 Mbit/s

95th percentile per-packet one-way delay: 162.049 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 70.24 Mbit/s

95th percentile per-packet one-way delay: 161.798 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 10.85 Mbit/s

95th percentile per-packet one-way delay: 163.212 ms

Loss rate: 1.46%

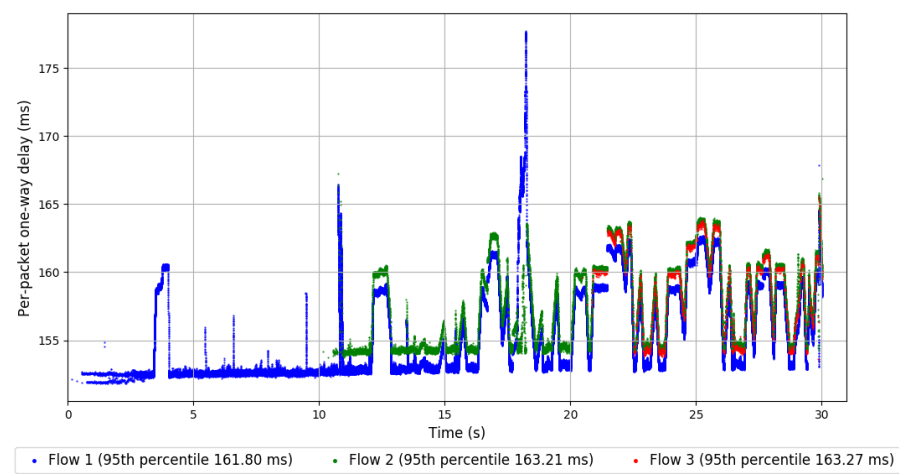
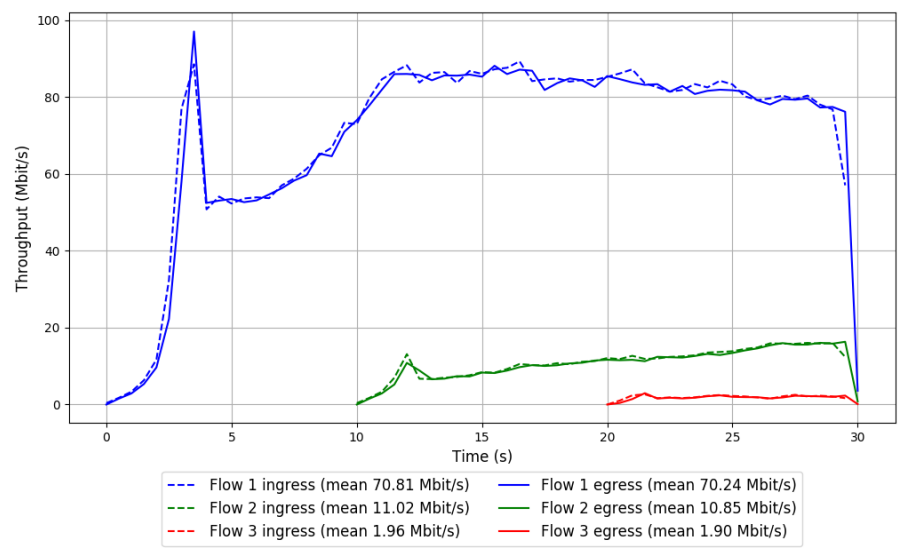
-- Flow 3:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 163.270 ms

Loss rate: 5.34%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-11 00:44:54

End at: 2018-04-11 00:45:24

Local clock offset: 32.547 ms

Remote clock offset: 0.458 ms

Below is generated by plot.py at 2018-04-11 03:05:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 162.422 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 70.81 Mbit/s

95th percentile per-packet one-way delay: 162.213 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 163.241 ms

Loss rate: 2.59%

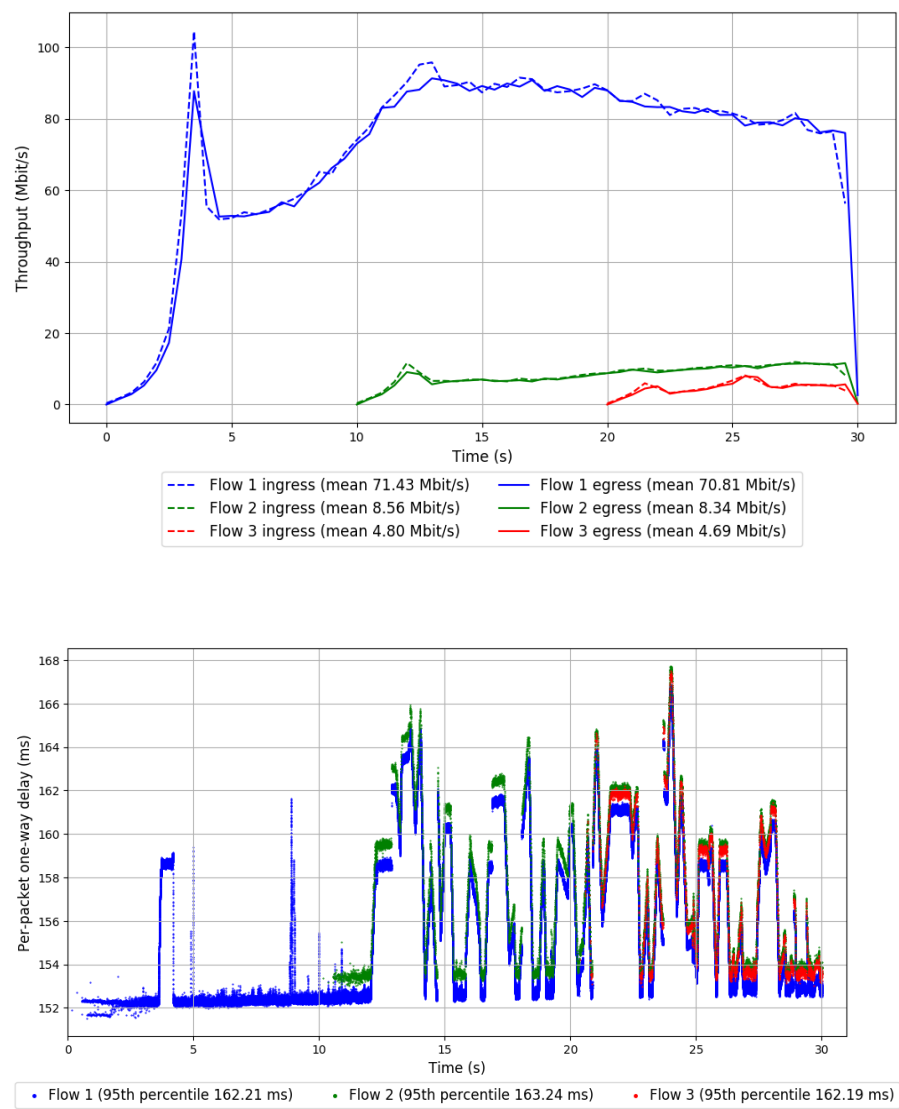
-- Flow 3:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 162.192 ms

Loss rate: 2.19%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-11 01:09:37

End at: 2018-04-11 01:10:08

Local clock offset: 46.647 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2018-04-11 03:05:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.60 Mbit/s

95th percentile per-packet one-way delay: 166.273 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 166.323 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 165.244 ms

Loss rate: 4.05%

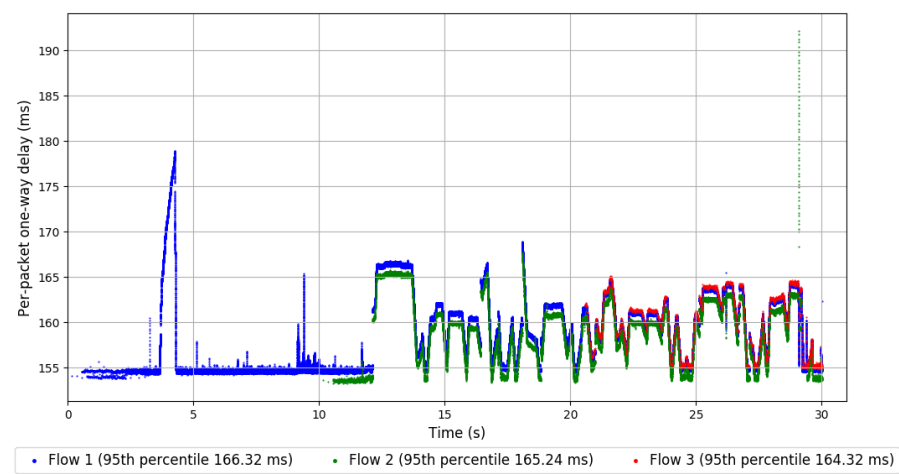
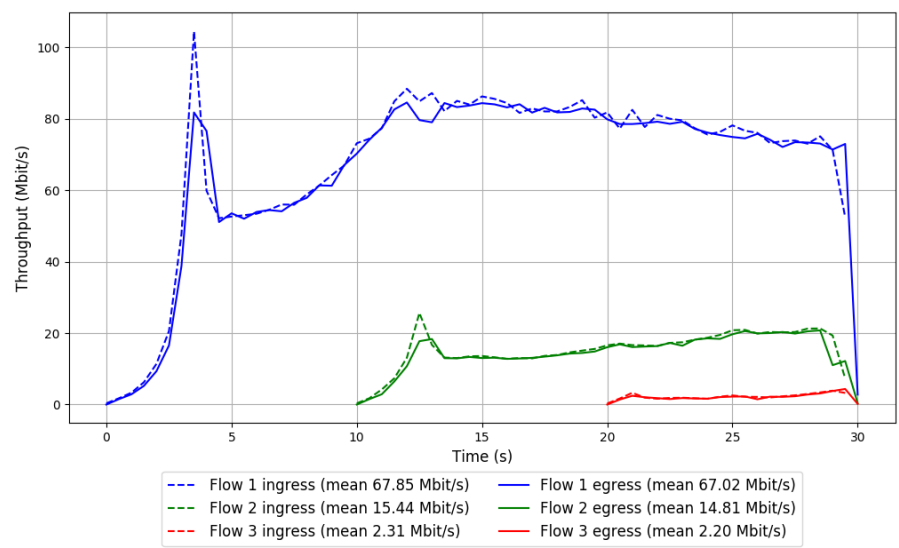
-- Flow 3:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 164.319 ms

Loss rate: 4.50%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-11 01:34:06

End at: 2018-04-11 01:34:36

Local clock offset: 57.971 ms

Remote clock offset: 6.892 ms

Below is generated by plot.py at 2018-04-11 03:05:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.26 Mbit/s

95th percentile per-packet one-way delay: 159.570 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 158.388 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 160.189 ms

Loss rate: 1.72%

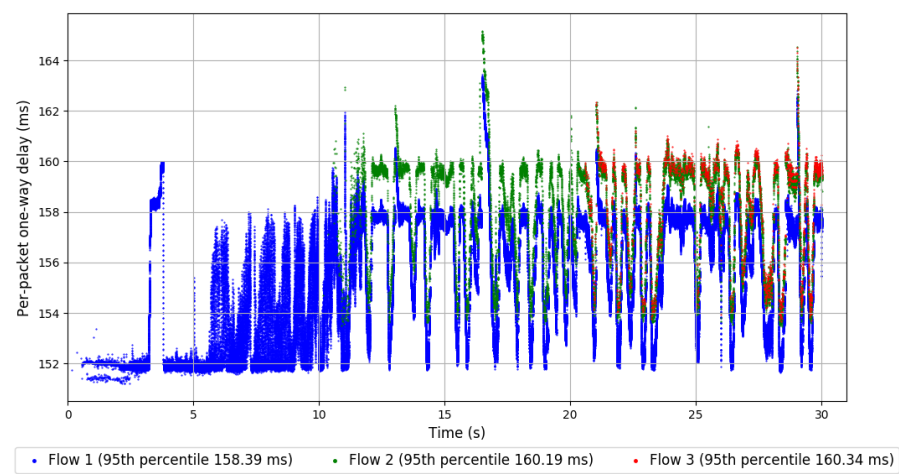
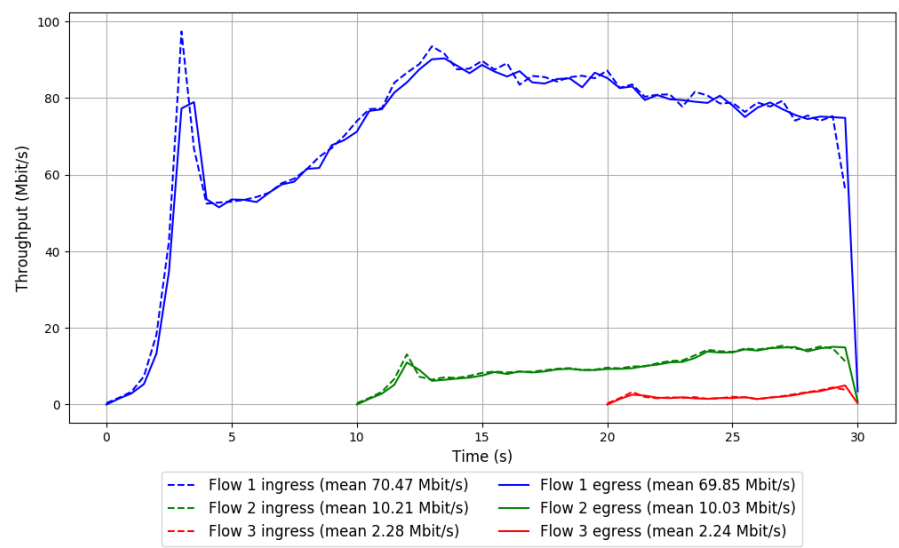
-- Flow 3:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 160.342 ms

Loss rate: 1.74%

Run 9: Report of Vivace-loss — Data Link

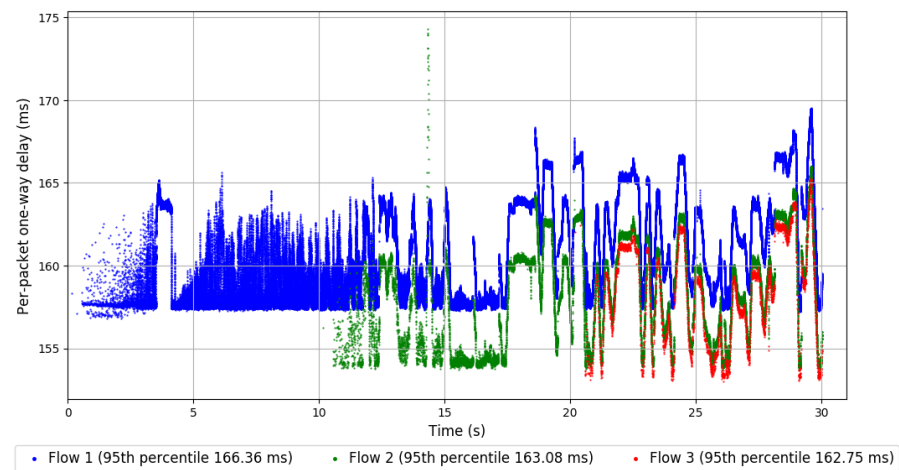
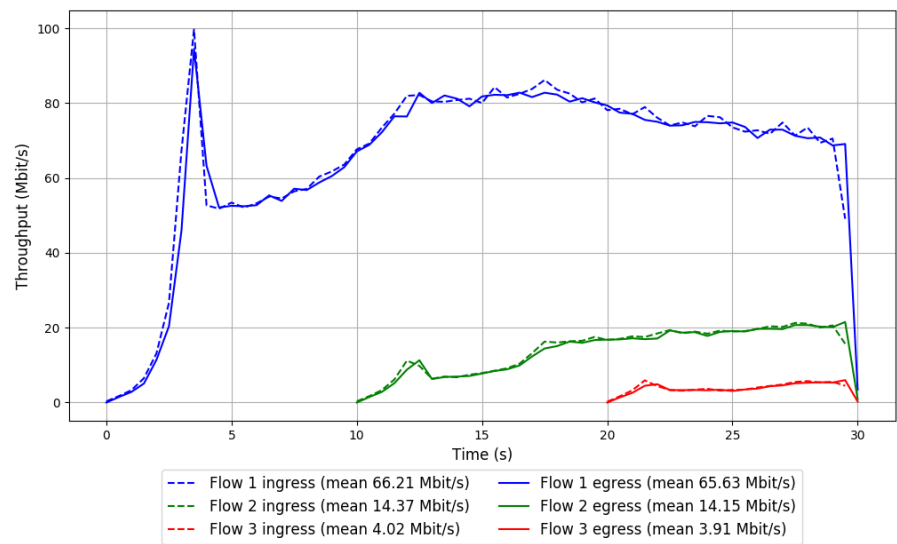


Run 10: Statistics of Vivace-loss

Start at: 2018-04-11 01:58:39
End at: 2018-04-11 01:59:09
Local clock offset: 26.38 ms
Remote clock offset: 16.542 ms

Below is generated by plot.py at 2018-04-11 03:05:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.32 Mbit/s
95th percentile per-packet one-way delay: 166.239 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 65.63 Mbit/s
95th percentile per-packet one-way delay: 166.356 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 14.15 Mbit/s
95th percentile per-packet one-way delay: 163.078 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 162.749 ms
Loss rate: 2.86%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 22:33:08

End at: 2018-04-10 22:33:38

Local clock offset: 1.486 ms

Remote clock offset: 3.074 ms

Below is generated by plot.py at 2018-04-11 03:05:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 162.502 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 69.88 Mbit/s

95th percentile per-packet one-way delay: 162.562 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 9.58 Mbit/s

95th percentile per-packet one-way delay: 159.930 ms

Loss rate: 1.02%

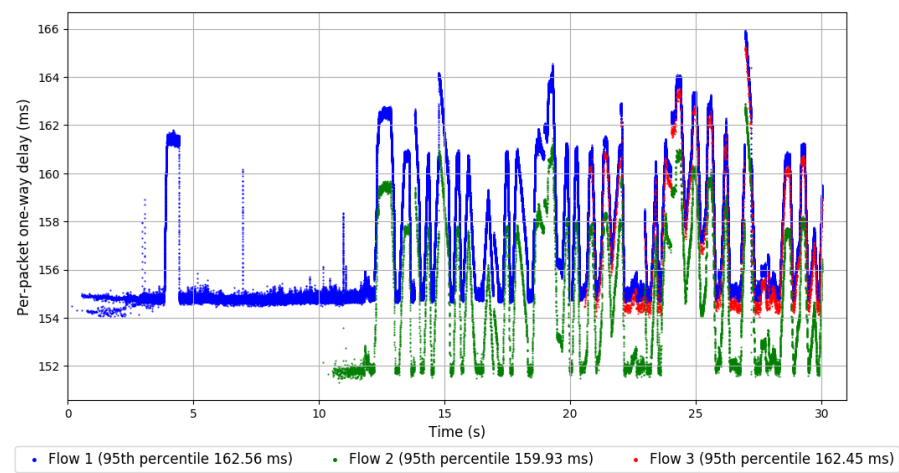
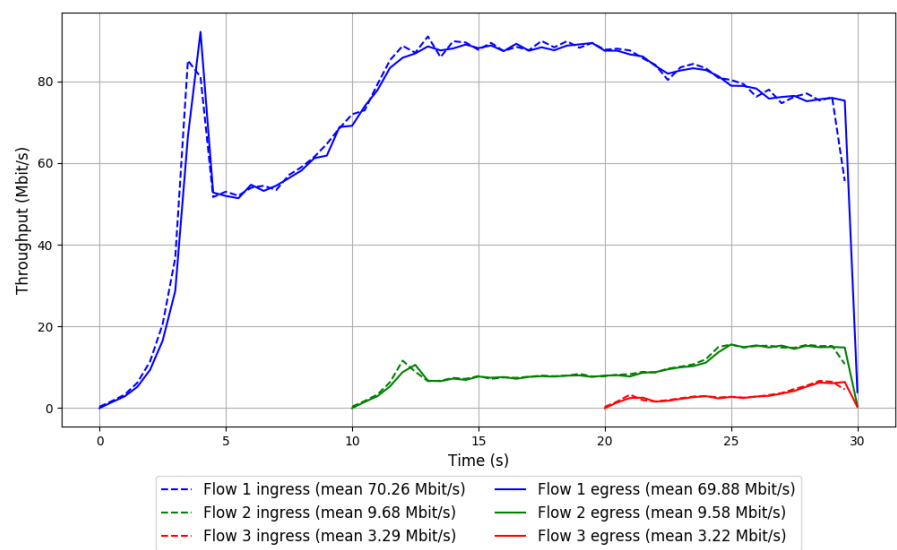
-- Flow 3:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 162.451 ms

Loss rate: 1.99%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 22:57:33

End at: 2018-04-10 22:58:03

Local clock offset: 1.654 ms

Remote clock offset: 2.561 ms

Below is generated by plot.py at 2018-04-11 03:06:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 163.591 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 65.28 Mbit/s

95th percentile per-packet one-way delay: 163.597 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 163.032 ms

Loss rate: 1.99%

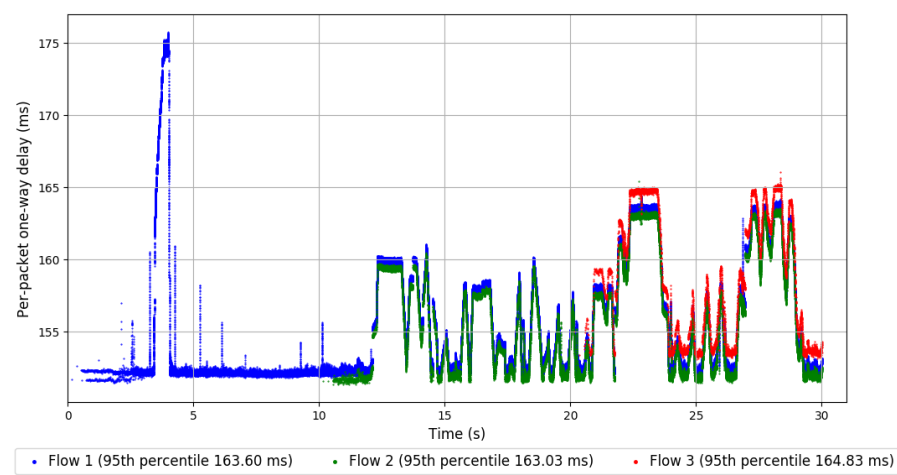
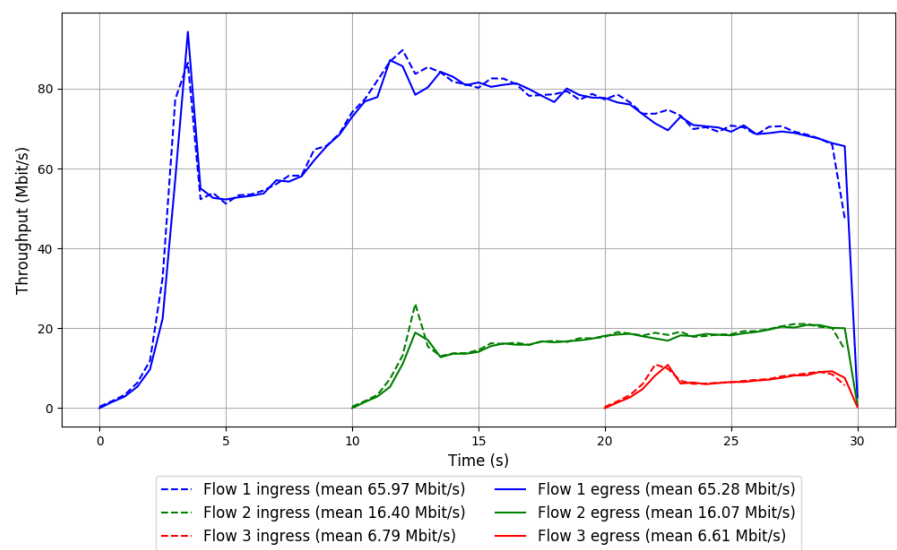
-- Flow 3:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 164.833 ms

Loss rate: 2.63%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 23:22:05

End at: 2018-04-10 23:22:35

Local clock offset: 1.984 ms

Remote clock offset: 2.35 ms

Below is generated by plot.py at 2018-04-11 03:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 162.161 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 69.84 Mbit/s

95th percentile per-packet one-way delay: 162.154 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 9.71 Mbit/s

95th percentile per-packet one-way delay: 162.405 ms

Loss rate: 1.15%

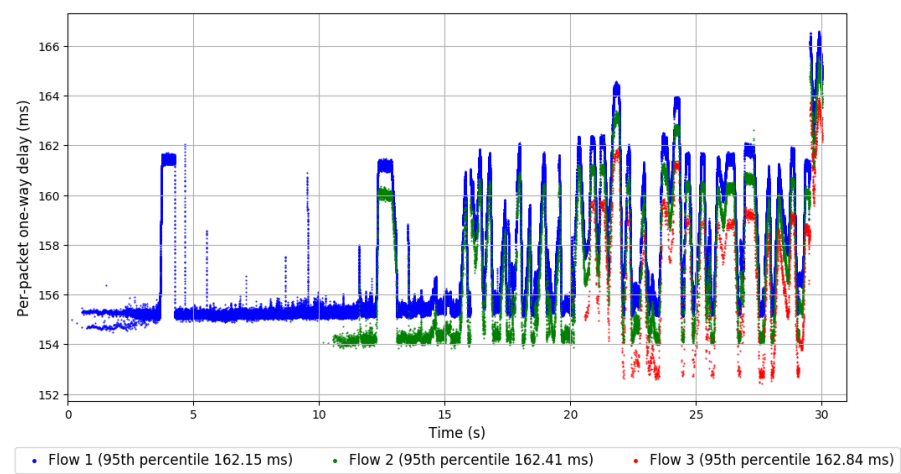
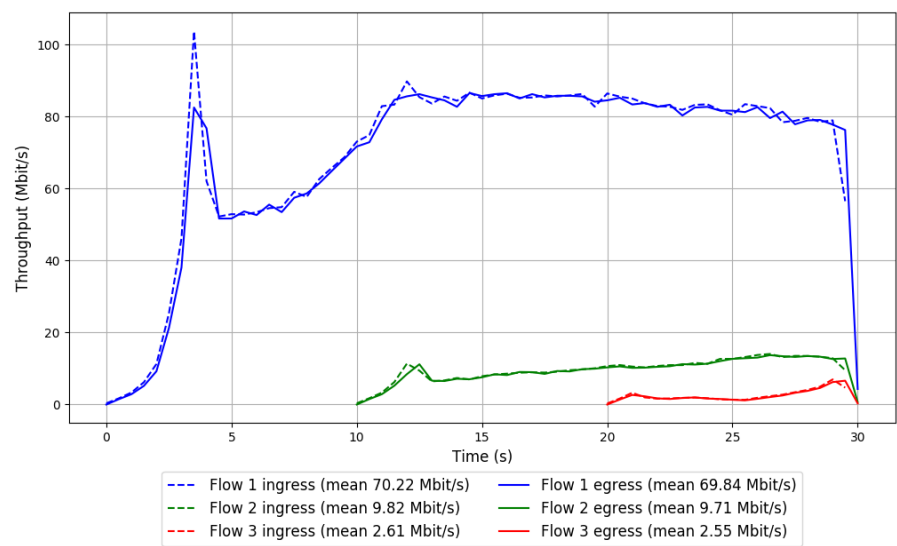
-- Flow 3:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 162.837 ms

Loss rate: 2.21%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 23:46:29

End at: 2018-04-10 23:46:59

Local clock offset: 2.132 ms

Remote clock offset: 2.739 ms

Below is generated by plot.py at 2018-04-11 03:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.40 Mbit/s

95th percentile per-packet one-way delay: 172.169 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 172.056 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 172.850 ms

Loss rate: 0.63%

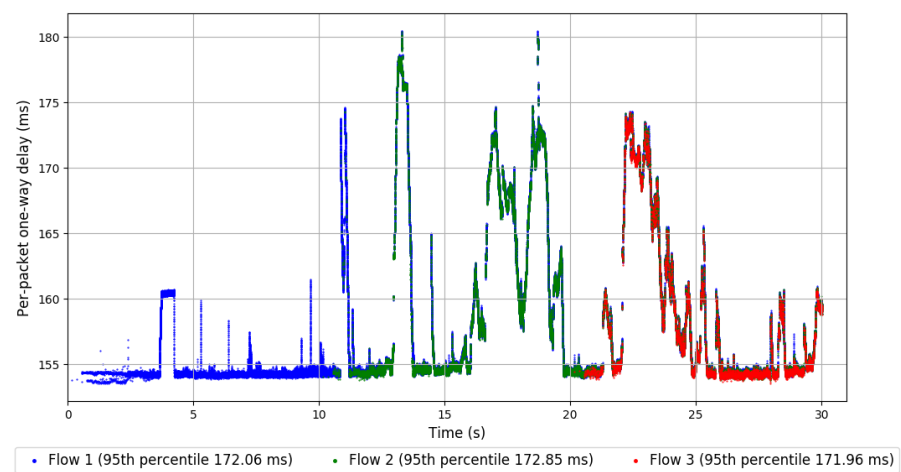
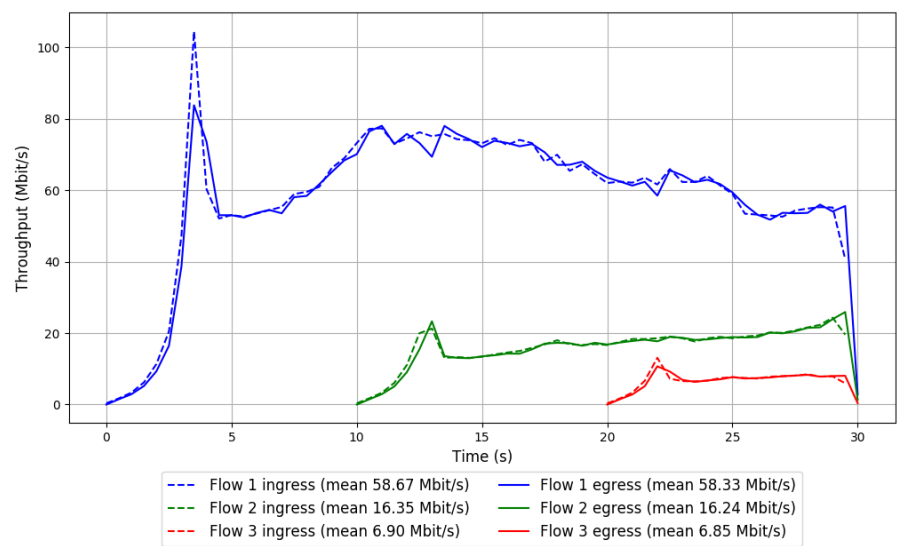
-- Flow 3:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 171.959 ms

Loss rate: 0.64%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-11 00:11:02

End at: 2018-04-11 00:11:32

Local clock offset: 1.947 ms

Remote clock offset: 8.781 ms

Below is generated by plot.py at 2018-04-11 03:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 163.312 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 162.016 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 26.11 Mbit/s

95th percentile per-packet one-way delay: 163.653 ms

Loss rate: 2.42%

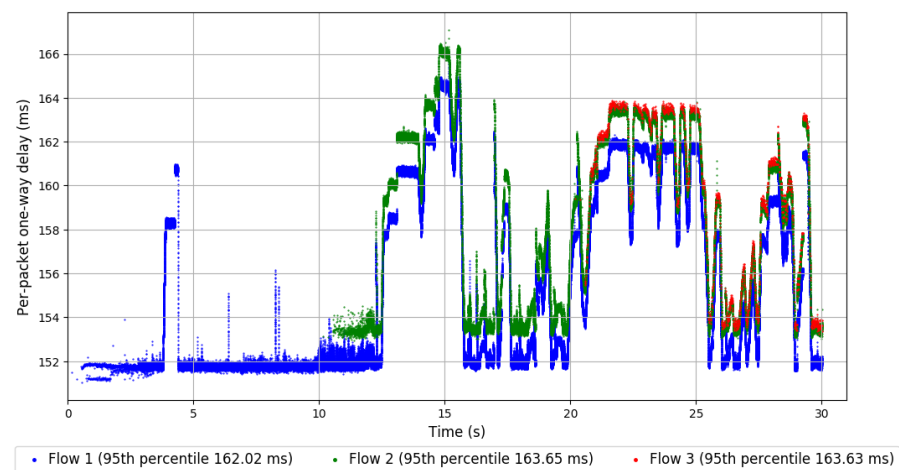
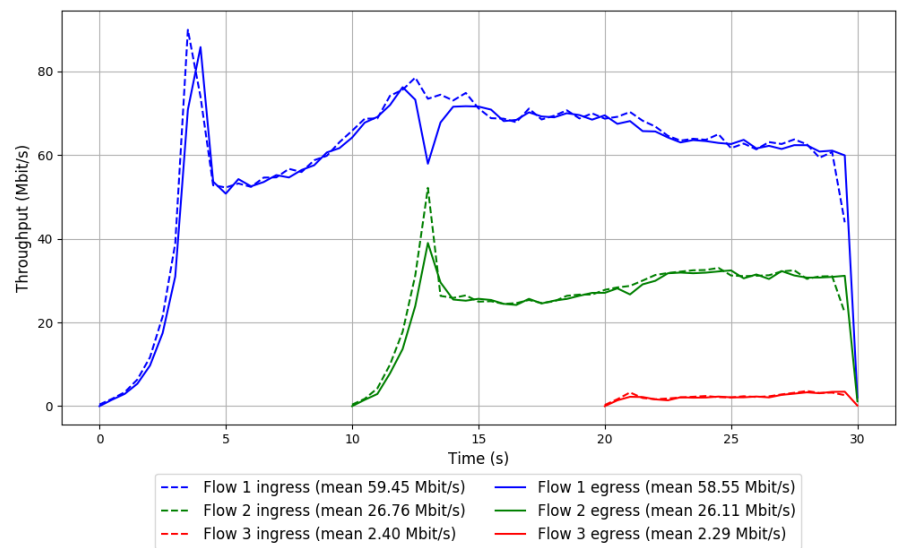
-- Flow 3:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 163.635 ms

Loss rate: 4.53%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-11 00:35:31

End at: 2018-04-11 00:36:01

Local clock offset: 22.187 ms

Remote clock offset: 1.699 ms

Below is generated by plot.py at 2018-04-11 03:06:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.92 Mbit/s

95th percentile per-packet one-way delay: 171.441 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 171.704 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 170.267 ms

Loss rate: 1.45%

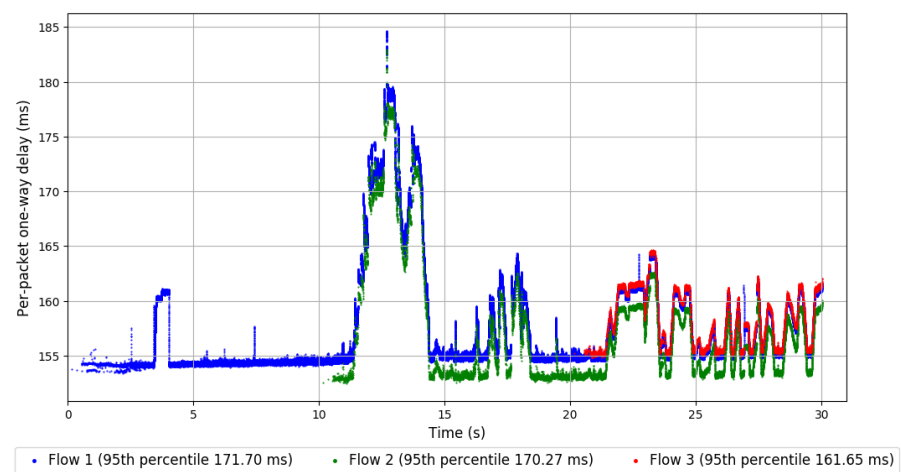
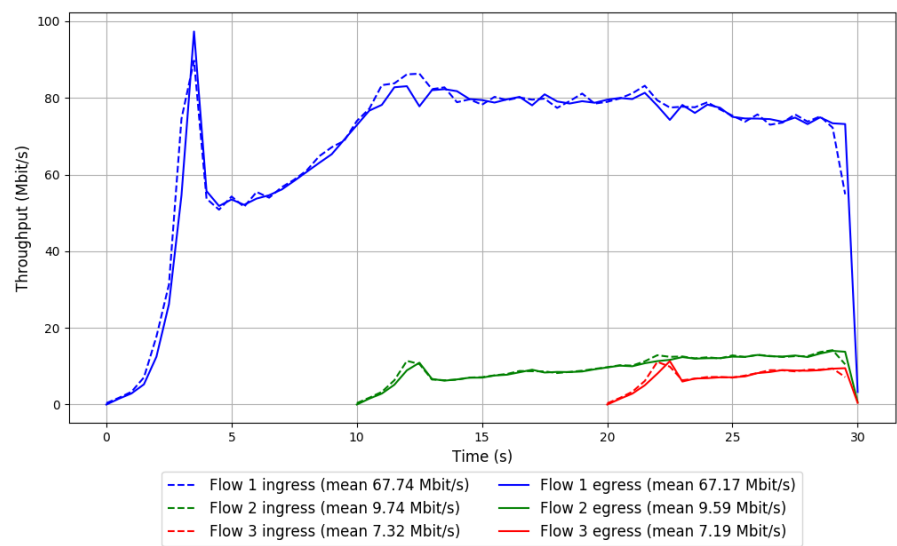
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 161.651 ms

Loss rate: 1.80%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-11 01:00:14

End at: 2018-04-11 01:00:44

Local clock offset: 41.947 ms

Remote clock offset: 0.146 ms

Below is generated by plot.py at 2018-04-11 03:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 161.932 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 68.54 Mbit/s

95th percentile per-packet one-way delay: 161.541 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 163.016 ms

Loss rate: 1.39%

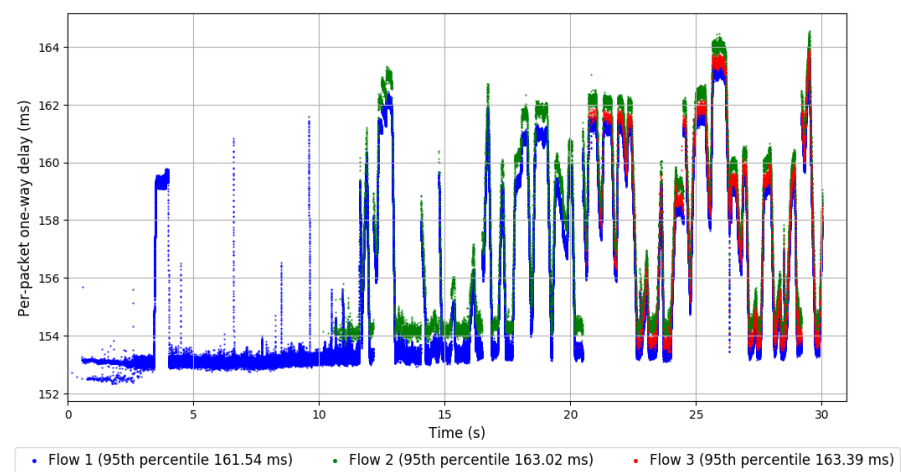
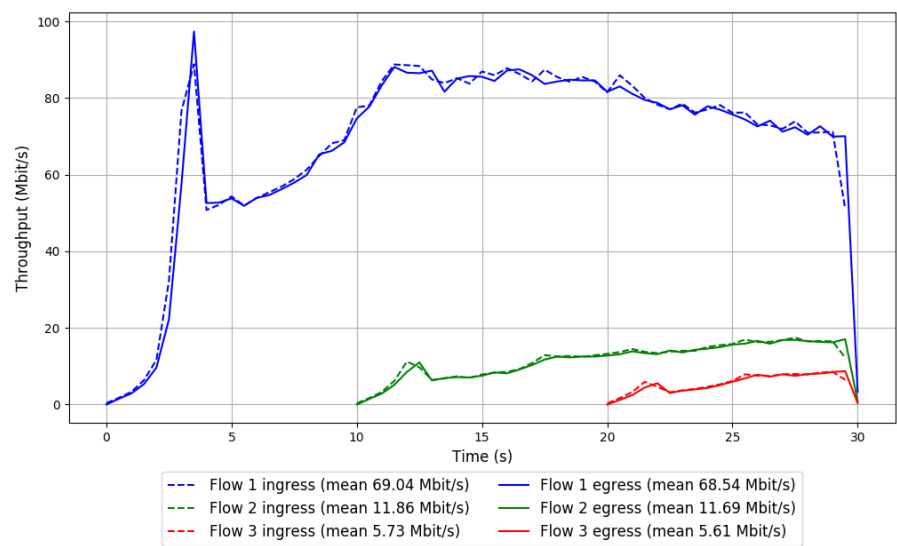
-- Flow 3:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 163.389 ms

Loss rate: 1.98%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-11 01:24:33

End at: 2018-04-11 01:25:03

Local clock offset: 53.575 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2018-04-11 03:06:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.25 Mbit/s

95th percentile per-packet one-way delay: 164.854 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 165.055 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 164.504 ms

Loss rate: 1.01%

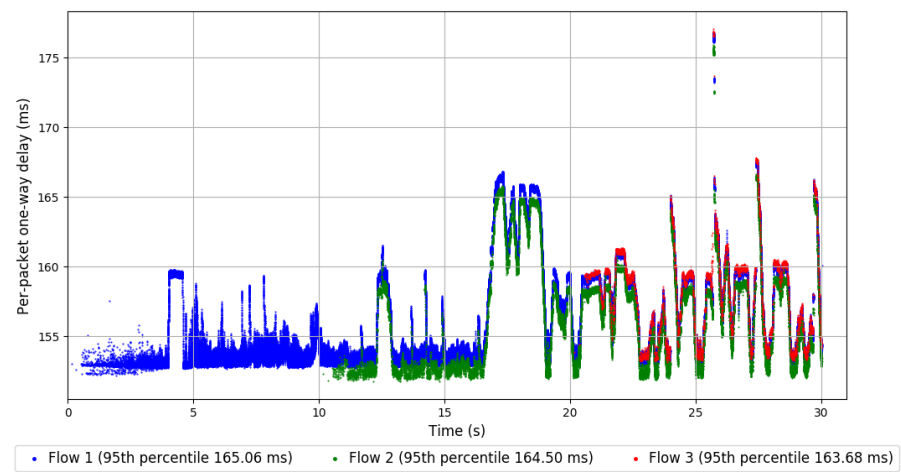
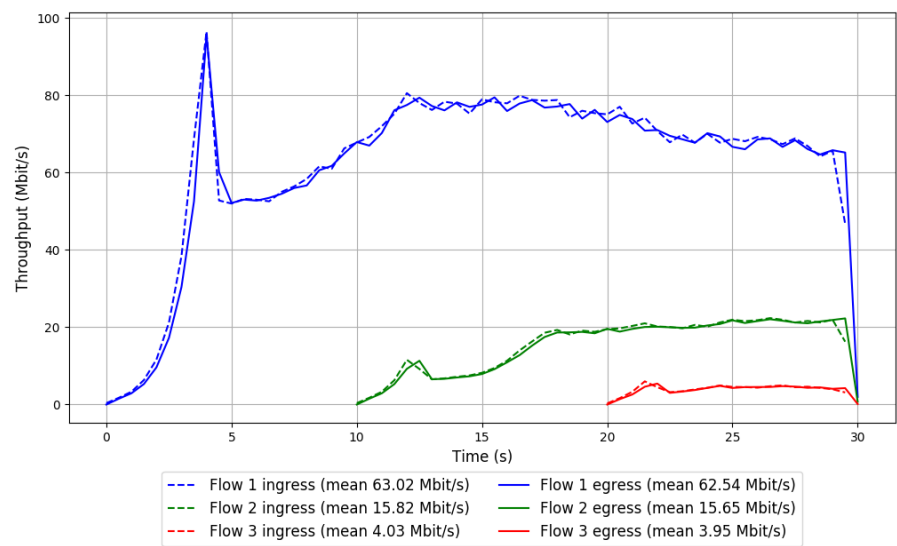
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 163.681 ms

Loss rate: 1.77%

Run 8: Report of Vivace-LTE — Data Link

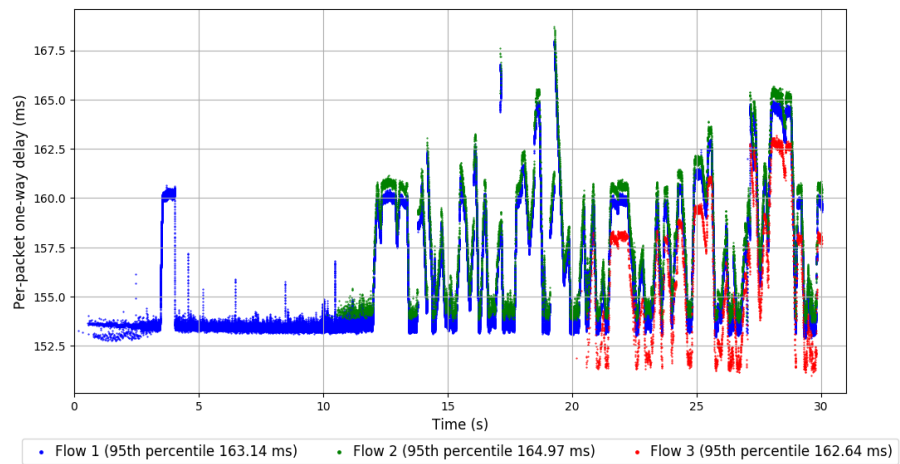
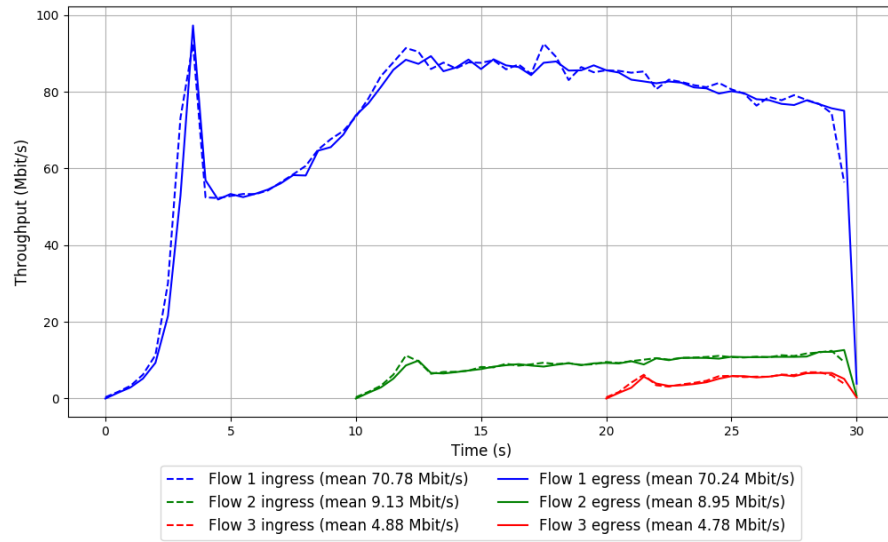


Run 9: Statistics of Vivace-LTE

Start at: 2018-04-11 01:49:16
End at: 2018-04-11 01:49:46
Local clock offset: 31.476 ms
Remote clock offset: 14.286 ms

Below is generated by plot.py at 2018-04-11 03:06:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.77 Mbit/s
95th percentile per-packet one-way delay: 163.310 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 70.24 Mbit/s
95th percentile per-packet one-way delay: 163.141 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 164.972 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 162.640 ms
Loss rate: 2.13%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-11 02:13:34

End at: 2018-04-11 02:14:04

Local clock offset: 16.827 ms

Remote clock offset: 4.519 ms

Below is generated by plot.py at 2018-04-11 03:06:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.70 Mbit/s

95th percentile per-packet one-way delay: 167.149 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 167.619 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 164.160 ms

Loss rate: 1.36%

-- Flow 3:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 163.728 ms

Loss rate: 1.61%

Run 10: Report of Vivace-LTE — Data Link

