

Pantheon Report

Generated at 2018-04-04 07:34:36 (UTC).

Data path: AWS California 1 Ethernet (*local*) → Stanford 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).

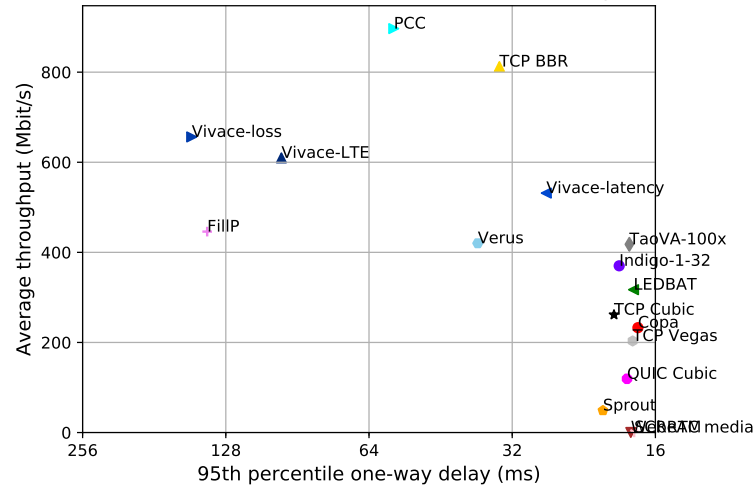
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

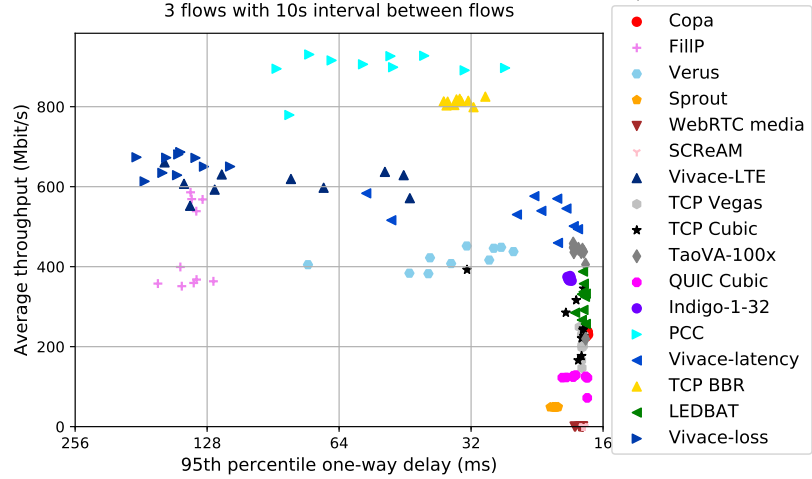
Git summary:

```
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 @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 1 Ethernet to Stanford 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	463.88	373.48	300.87	37.27	21.57	19.05	2.65	4.83	6.86
TCP Cubic	10	129.00	129.26	139.98	19.84	19.42	18.75	0.04	0.07	0.10
LEDBAT	10	166.53	157.63	137.55	17.75	17.83	17.86	0.02	0.02	0.03
PCC	10	749.15	180.68	83.21	61.79	18.65	18.63	0.94	0.39	0.39
QUIC Cubic	10	60.14	62.72	53.70	18.01	18.46	19.25	0.00	0.00	0.01
SCReAM	10	0.22	0.22	0.22	17.73	17.72	17.75	0.00	0.00	0.00
WebRTC media	10	0.06	0.06	0.05	18.32	17.84	17.96	0.00	0.00	0.01
Sprout	10	24.59	24.54	24.39	20.64	20.56	20.72	0.11	0.14	0.16
TaoVA-100x	10	220.65	191.73	209.59	17.80	18.23	18.98	0.02	0.07	0.01
TCP Vegas	10	92.18	104.40	125.21	17.83	18.16	17.81	0.04	0.11	0.04
Verus	10	212.98	222.80	178.33	37.22	36.40	40.01	12.63	12.74	14.37
Copa	10	115.07	113.86	126.45	17.40	17.41	17.53	0.01	0.01	0.02
FillP	10	217.37	163.30	364.27	141.74	142.58	158.30	16.68	25.85	24.37
Indigo-1-32	10	193.27	184.97	169.88	18.64	18.85	20.23	0.02	0.02	0.03
Vivace-latency	10	318.87	264.00	112.94	36.75	40.26	18.85	0.22	0.34	0.18
Vivace-loss	10	363.46	325.35	232.40	146.51	140.53	66.48	3.52	1.91	2.46
Vivace-LTE	10	356.51	302.67	158.03	101.31	75.25	36.62	0.48	0.41	0.35

Run 1: Statistics of TCP BBR

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

End at: 2018-04-03 21:57:26

Local clock offset: 0.86 ms

Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-04-04 05:30:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.21 Mbit/s

95th percentile per-packet one-way delay: 34.944 ms

Loss rate: 4.48%

-- Flow 1:

Average throughput: 461.04 Mbit/s

95th percentile per-packet one-way delay: 37.520 ms

Loss rate: 3.30%

-- Flow 2:

Average throughput: 369.79 Mbit/s

95th percentile per-packet one-way delay: 22.650 ms

Loss rate: 5.26%

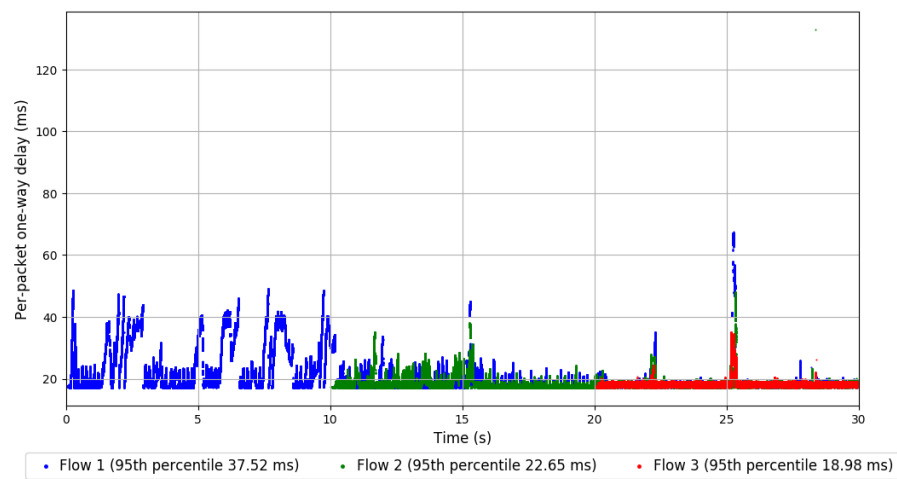
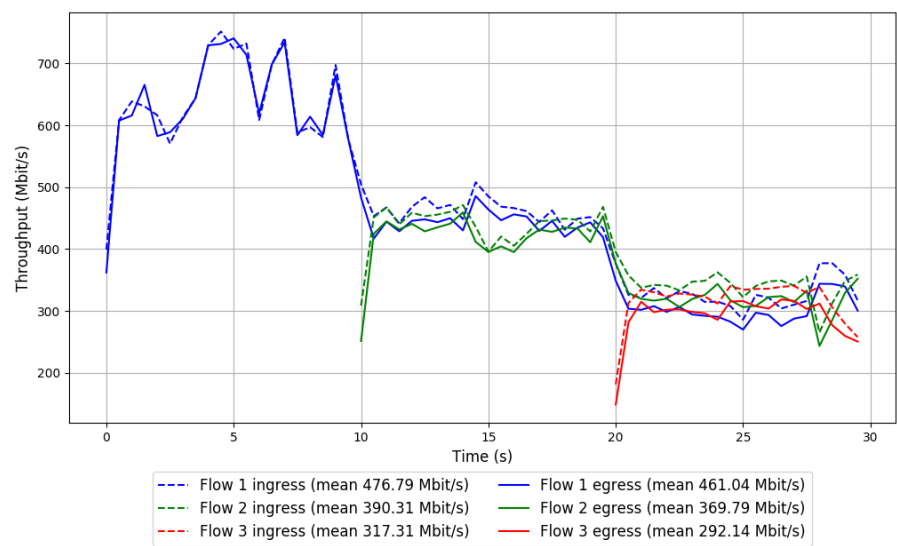
-- Flow 3:

Average throughput: 292.14 Mbit/s

95th percentile per-packet one-way delay: 18.978 ms

Loss rate: 7.93%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-03 22:25:42

End at: 2018-04-03 22:26:12

Local clock offset: 0.977 ms

Remote clock offset: 0.18 ms

Below is generated by plot.py at 2018-04-04 05:30:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 818.31 Mbit/s

95th percentile per-packet one-way delay: 34.550 ms

Loss rate: 3.43%

-- Flow 1:

Average throughput: 483.66 Mbit/s

95th percentile per-packet one-way delay: 37.326 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 348.60 Mbit/s

95th percentile per-packet one-way delay: 22.240 ms

Loss rate: 4.65%

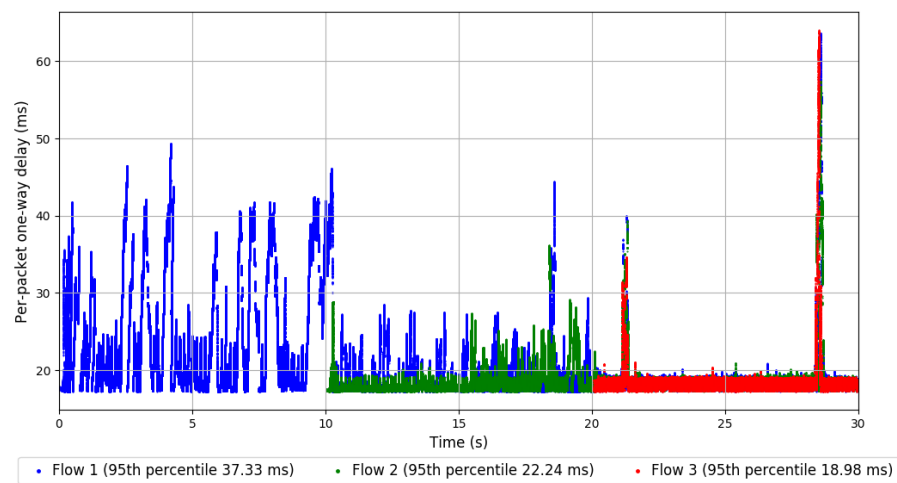
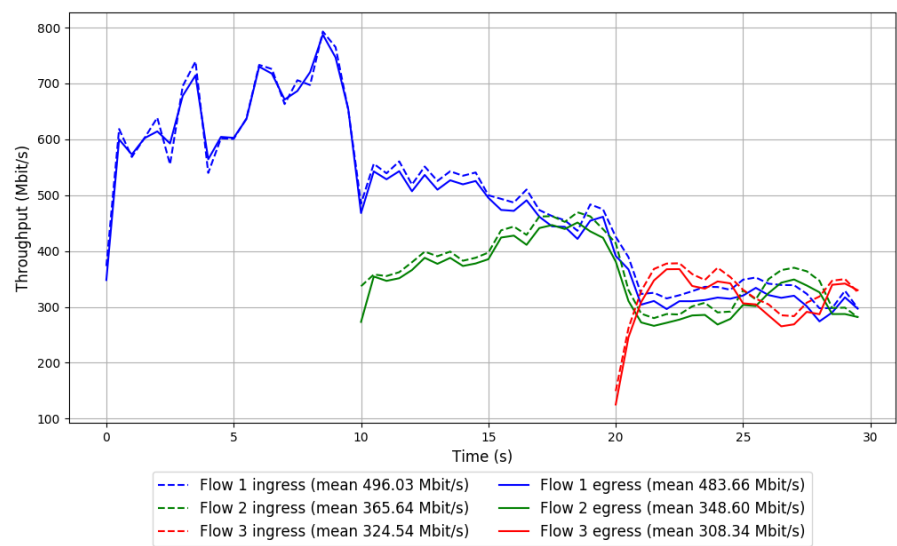
-- Flow 3:

Average throughput: 308.34 Mbit/s

95th percentile per-packet one-way delay: 18.979 ms

Loss rate: 4.99%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-03 22:54:32

End at: 2018-04-03 22:55:02

Local clock offset: 1.535 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-04-04 05:30:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 798.79 Mbit/s

95th percentile per-packet one-way delay: 31.593 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 430.42 Mbit/s

95th percentile per-packet one-way delay: 36.453 ms

Loss rate: 2.82%

-- Flow 2:

Average throughput: 421.98 Mbit/s

95th percentile per-packet one-way delay: 21.545 ms

Loss rate: 4.24%

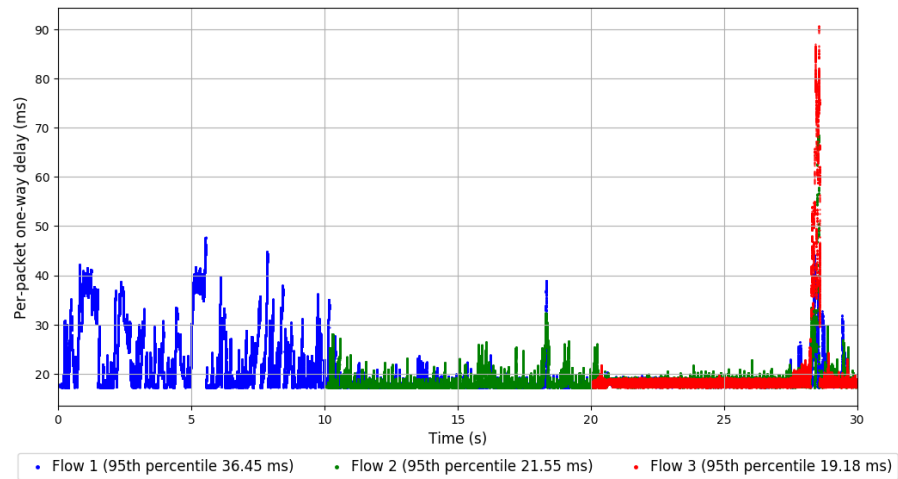
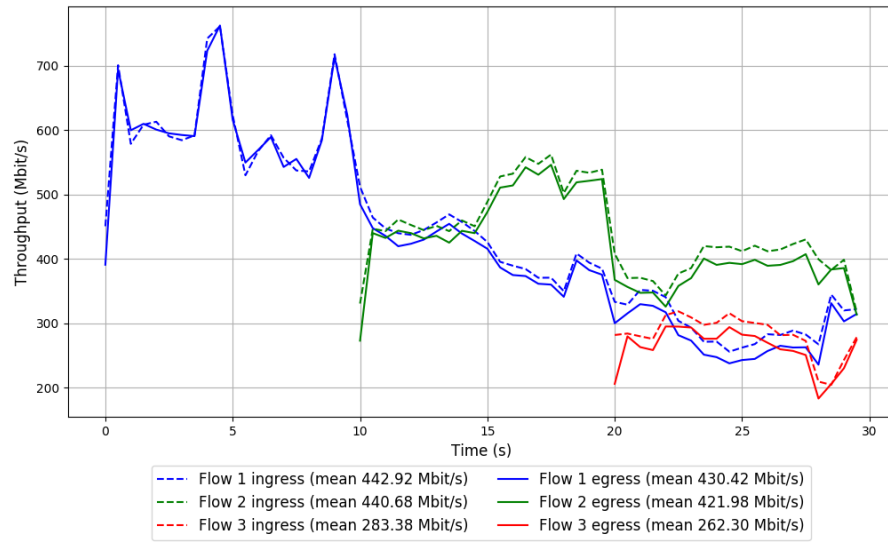
-- Flow 3:

Average throughput: 262.30 Mbit/s

95th percentile per-packet one-way delay: 19.179 ms

Loss rate: 7.42%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-03 23:22:58

End at: 2018-04-03 23:23:28

Local clock offset: 1.468 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2018-04-04 05:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 825.18 Mbit/s

95th percentile per-packet one-way delay: 29.691 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 466.07 Mbit/s

95th percentile per-packet one-way delay: 36.230 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 381.14 Mbit/s

95th percentile per-packet one-way delay: 20.439 ms

Loss rate: 3.81%

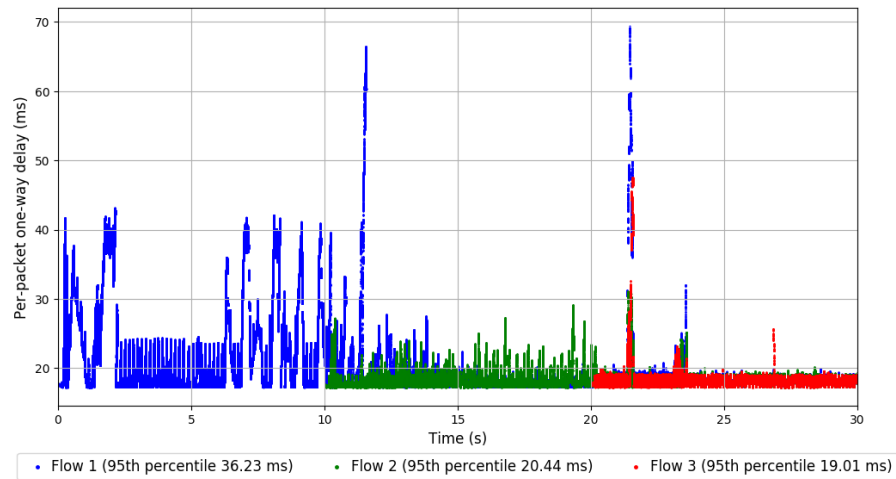
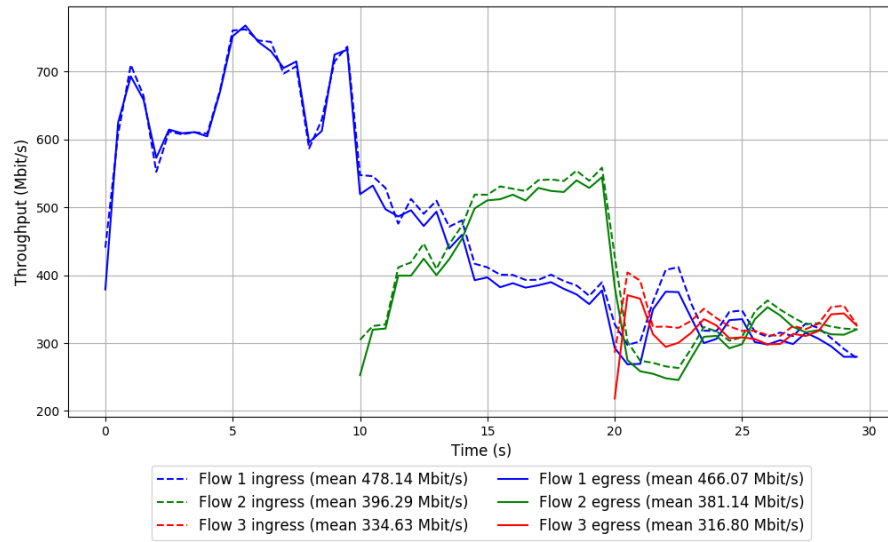
-- Flow 3:

Average throughput: 316.80 Mbit/s

95th percentile per-packet one-way delay: 19.011 ms

Loss rate: 5.32%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-03 23:51:40

End at: 2018-04-03 23:52:10

Local clock offset: 0.775 ms

Remote clock offset: 0.453 ms

Below is generated by plot.py at 2018-04-04 05:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.22 Mbit/s

95th percentile per-packet one-way delay: 36.398 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 467.51 Mbit/s

95th percentile per-packet one-way delay: 38.259 ms

Loss rate: 2.46%

-- Flow 2:

Average throughput: 362.68 Mbit/s

95th percentile per-packet one-way delay: 20.697 ms

Loss rate: 4.76%

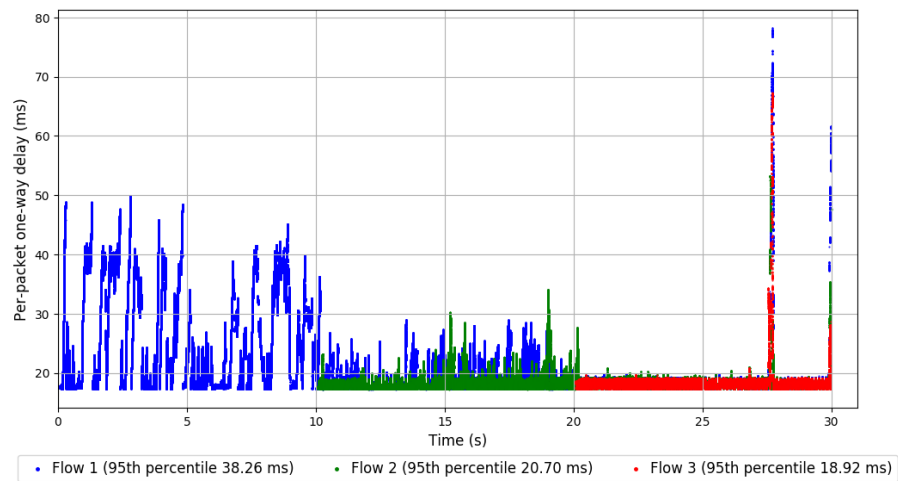
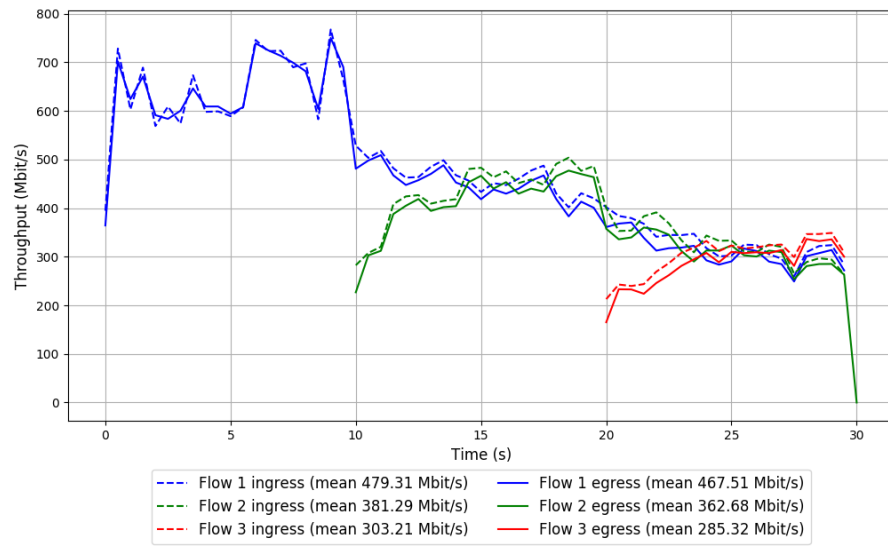
-- Flow 3:

Average throughput: 285.32 Mbit/s

95th percentile per-packet one-way delay: 18.922 ms

Loss rate: 5.90%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-04 00:20:28

End at: 2018-04-04 00:20:58

Local clock offset: 0.403 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-04-04 05:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 813.29 Mbit/s

95th percentile per-packet one-way delay: 36.948 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 440.50 Mbit/s

95th percentile per-packet one-way delay: 38.257 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 397.38 Mbit/s

95th percentile per-packet one-way delay: 22.091 ms

Loss rate: 4.90%

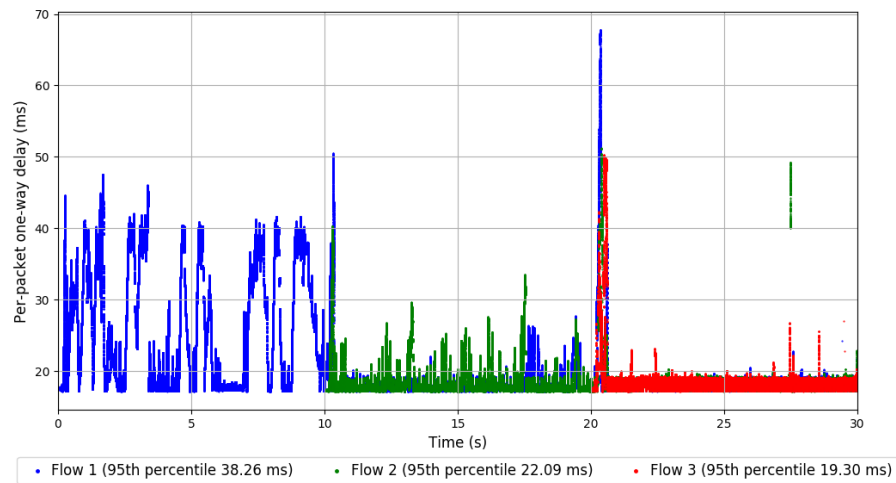
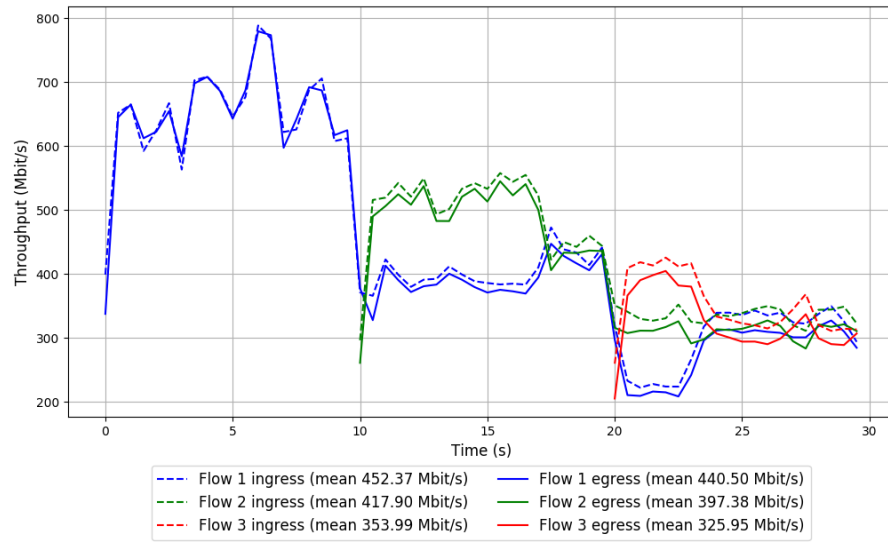
-- Flow 3:

Average throughput: 325.95 Mbit/s

95th percentile per-packet one-way delay: 19.298 ms

Loss rate: 7.91%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-04 00:49:15

End at: 2018-04-04 00:49:45

Local clock offset: 0.108 ms

Remote clock offset: 0.365 ms

Below is generated by plot.py at 2018-04-04 05:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 814.00 Mbit/s

95th percentile per-packet one-way delay: 33.706 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 464.10 Mbit/s

95th percentile per-packet one-way delay: 36.879 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 377.98 Mbit/s

95th percentile per-packet one-way delay: 21.800 ms

Loss rate: 5.15%

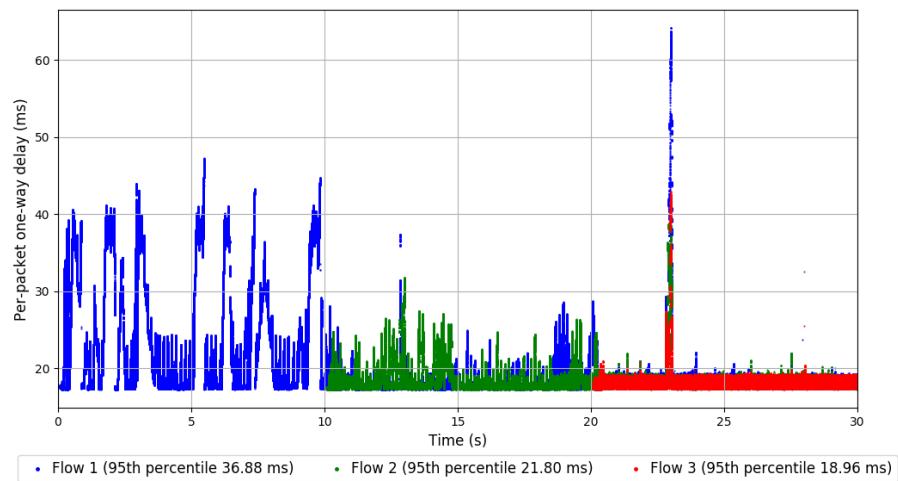
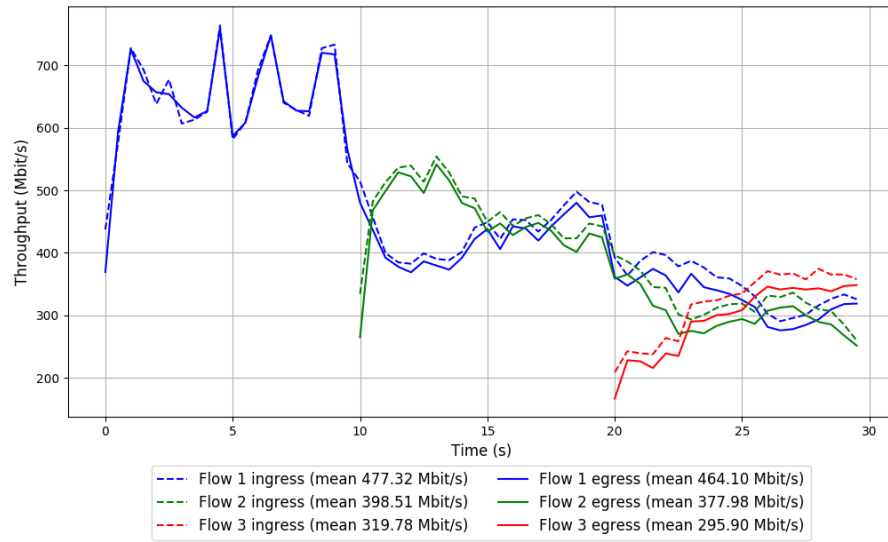
-- Flow 3:

Average throughput: 295.90 Mbit/s

95th percentile per-packet one-way delay: 18.961 ms

Loss rate: 7.47%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-04 01:18:06

End at: 2018-04-04 01:18:36

Local clock offset: 0.04 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2018-04-04 05:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 814.96 Mbit/s

95th percentile per-packet one-way delay: 32.477 ms

Loss rate: 4.12%

-- Flow 1:

Average throughput: 471.25 Mbit/s

95th percentile per-packet one-way delay: 36.778 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 367.82 Mbit/s

95th percentile per-packet one-way delay: 22.527 ms

Loss rate: 5.33%

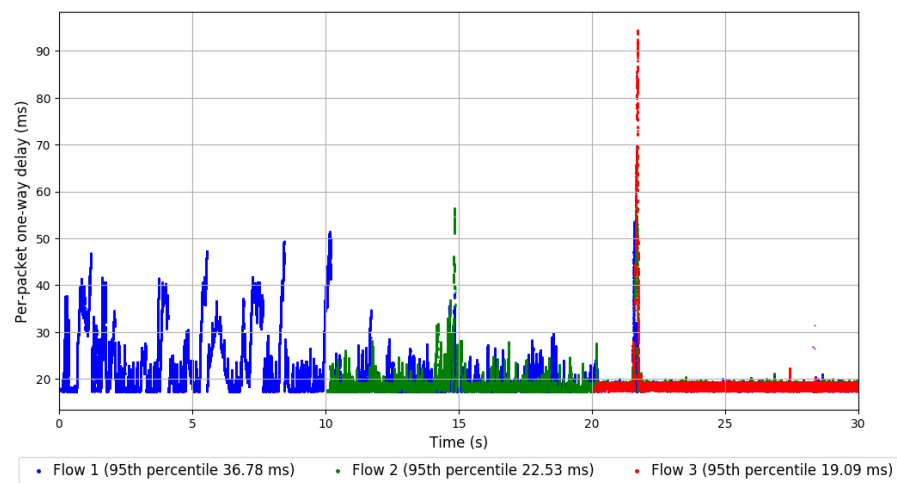
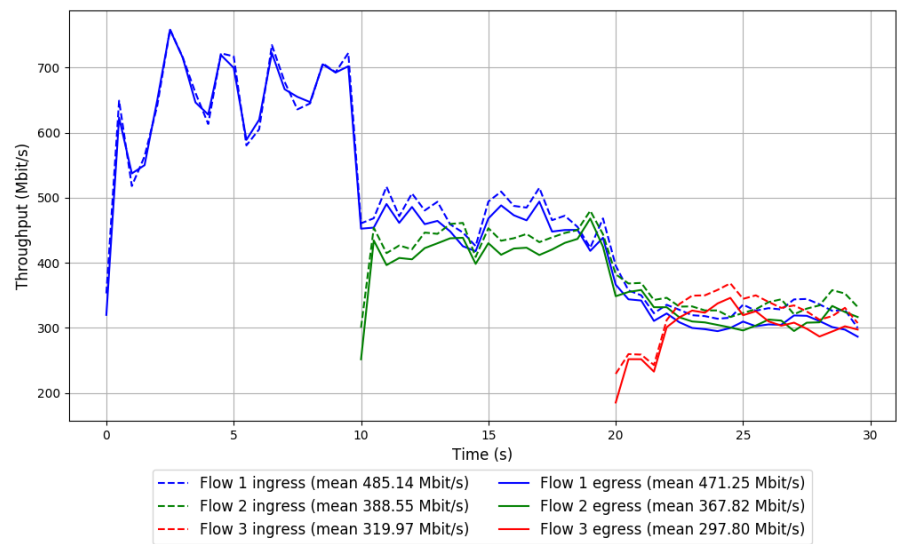
-- Flow 3:

Average throughput: 297.80 Mbit/s

95th percentile per-packet one-way delay: 19.095 ms

Loss rate: 6.93%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-04 01:46:58

End at: 2018-04-04 01:47:28

Local clock offset: 0.087 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 819.74 Mbit/s

95th percentile per-packet one-way delay: 33.973 ms

Loss rate: 3.95%

-- Flow 1:

Average throughput: 473.67 Mbit/s

95th percentile per-packet one-way delay: 36.837 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 367.48 Mbit/s

95th percentile per-packet one-way delay: 20.532 ms

Loss rate: 5.13%

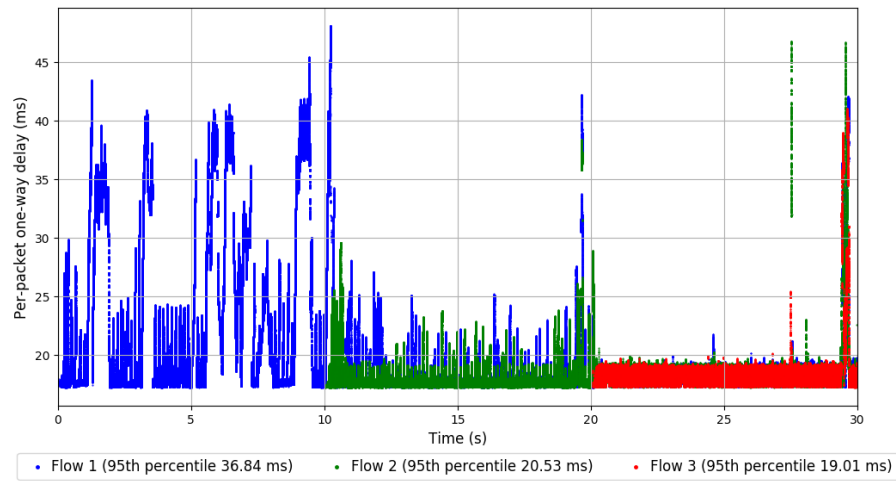
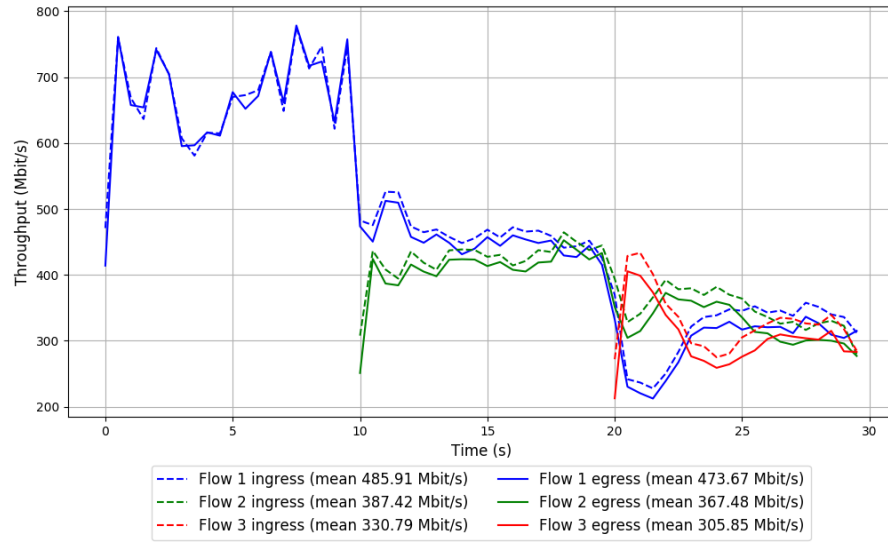
-- Flow 3:

Average throughput: 305.85 Mbit/s

95th percentile per-packet one-way delay: 19.010 ms

Loss rate: 7.54%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-04 02:15:55

End at: 2018-04-04 02:16:25

Local clock offset: 0.442 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 812.73 Mbit/s

95th percentile per-packet one-way delay: 36.194 ms

Loss rate: 3.69%

-- Flow 1:

Average throughput: 480.58 Mbit/s

95th percentile per-packet one-way delay: 38.123 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 339.97 Mbit/s

95th percentile per-packet one-way delay: 21.157 ms

Loss rate: 5.12%

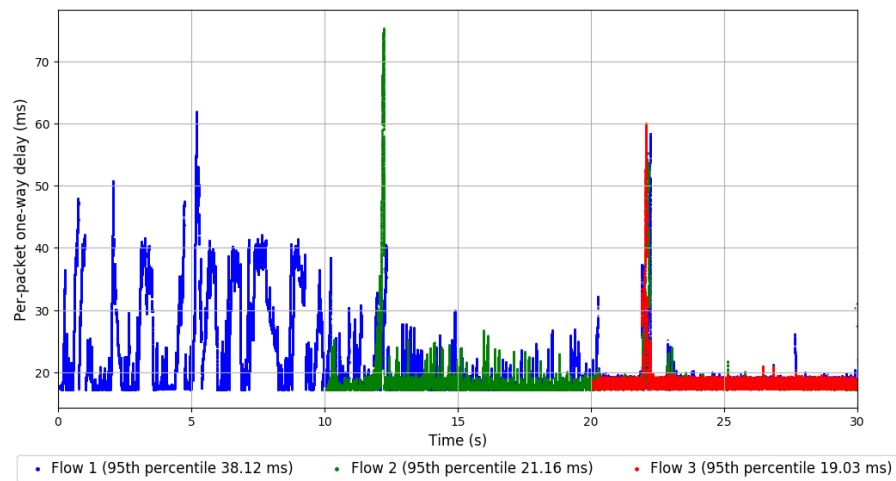
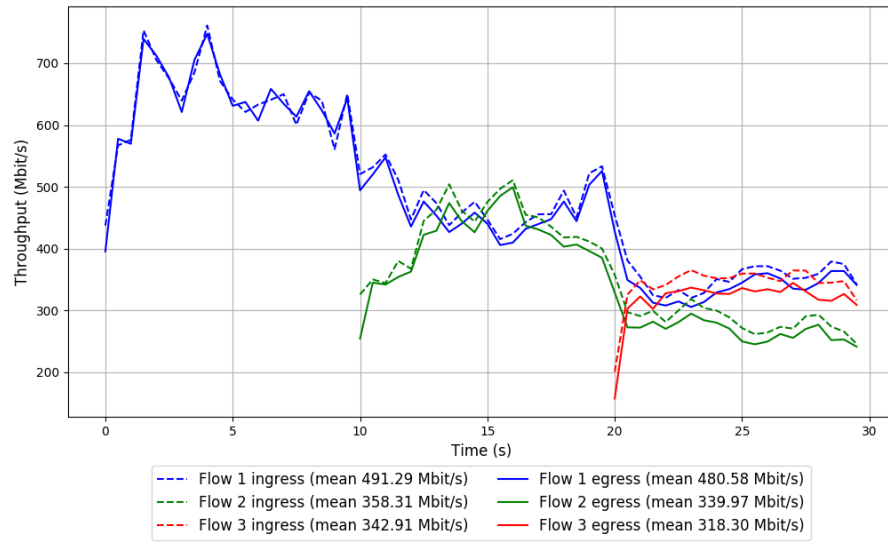
-- Flow 3:

Average throughput: 318.30 Mbit/s

95th percentile per-packet one-way delay: 19.030 ms

Loss rate: 7.18%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-03 21:50:10

End at: 2018-04-03 21:50:40

Local clock offset: 0.924 ms

Remote clock offset: 0.463 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.73 Mbit/s

95th percentile per-packet one-way delay: 17.776 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 120.64 Mbit/s

95th percentile per-packet one-way delay: 17.745 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 109.02 Mbit/s

95th percentile per-packet one-way delay: 17.856 ms

Loss rate: 0.04%

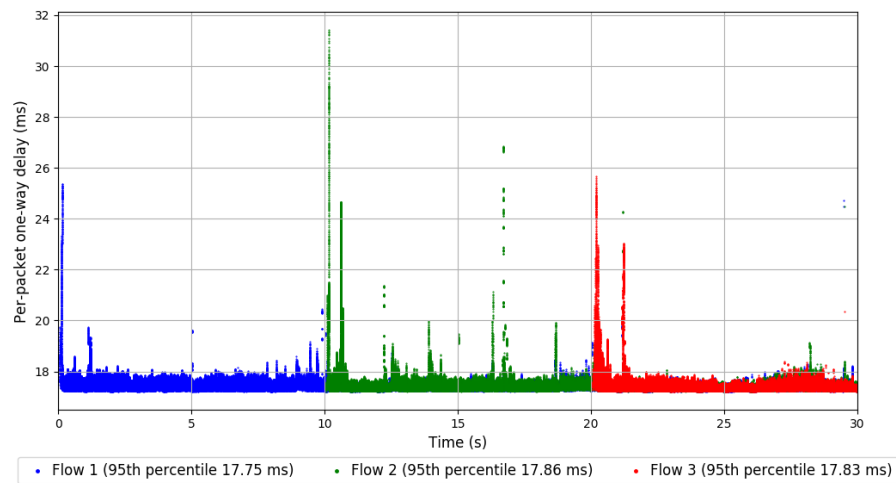
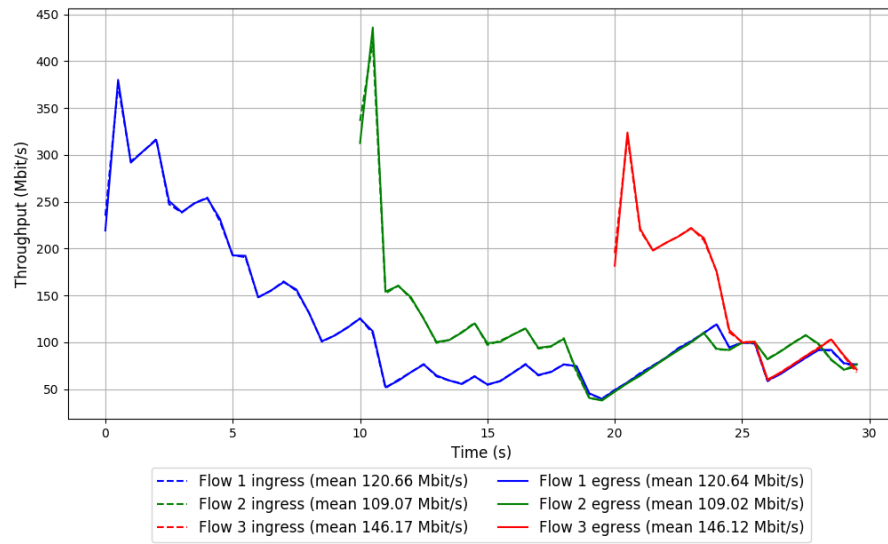
-- Flow 3:

Average throughput: 146.12 Mbit/s

95th percentile per-packet one-way delay: 17.828 ms

Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2018-04-03 22:19:20

Local clock offset: 0.772 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.03 Mbit/s

95th percentile per-packet one-way delay: 17.708 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 176.87 Mbit/s

95th percentile per-packet one-way delay: 17.745 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 154.45 Mbit/s

95th percentile per-packet one-way delay: 17.647 ms

Loss rate: 0.10%

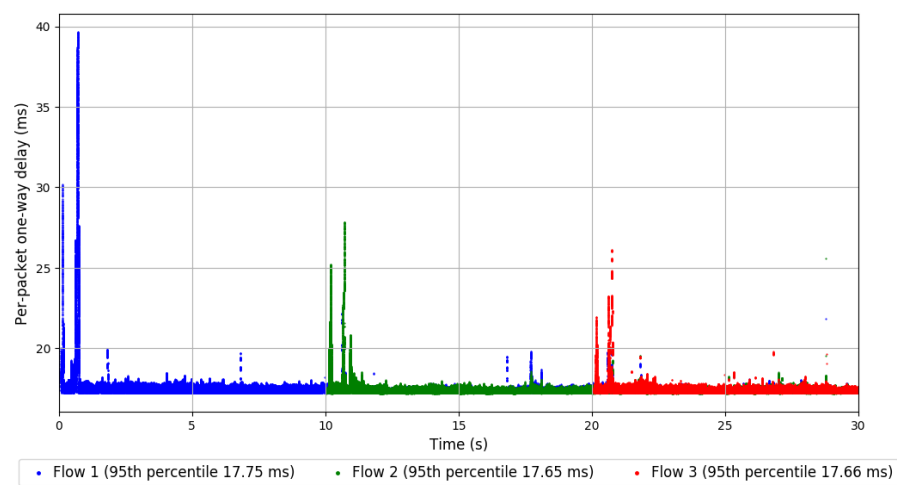
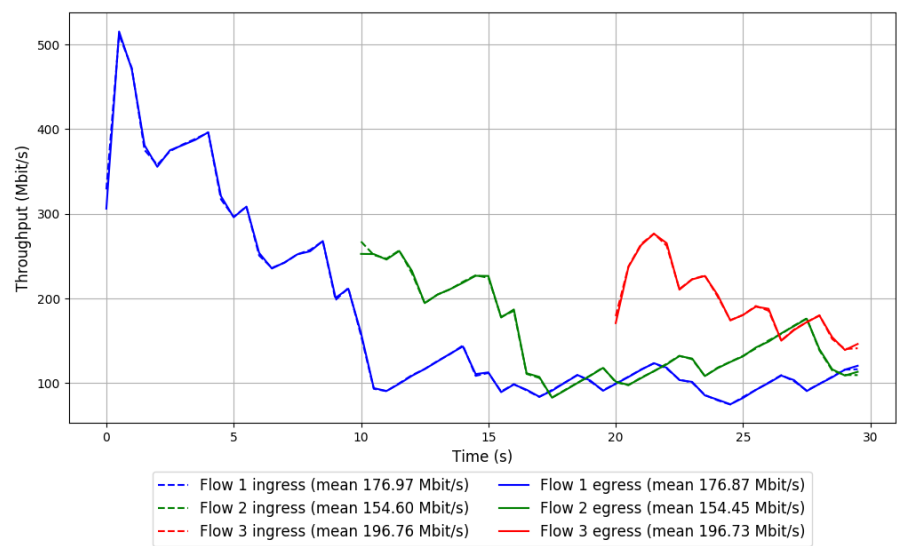
-- Flow 3:

Average throughput: 196.73 Mbit/s

95th percentile per-packet one-way delay: 17.663 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-03 22:47:44

End at: 2018-04-03 22:48:14

Local clock offset: 1.285 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.95 Mbit/s

95th percentile per-packet one-way delay: 17.896 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 106.20 Mbit/s

95th percentile per-packet one-way delay: 17.888 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 109.24 Mbit/s

95th percentile per-packet one-way delay: 17.795 ms

Loss rate: 0.03%

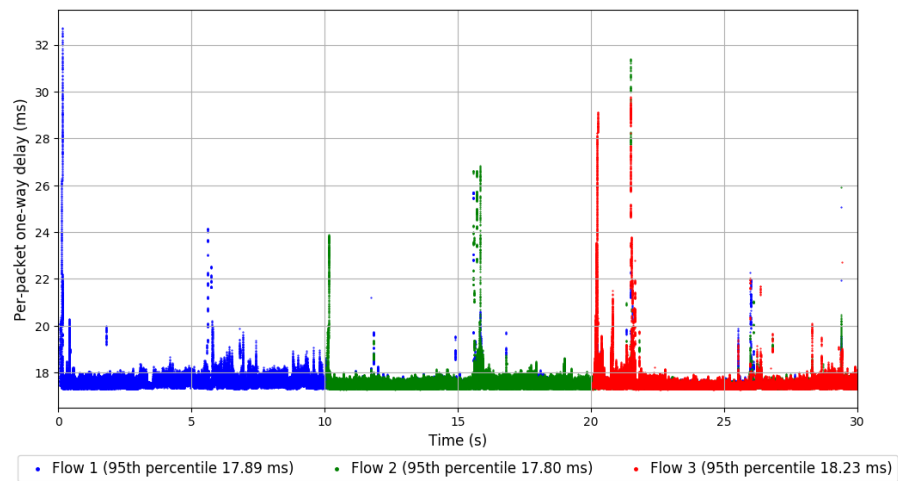
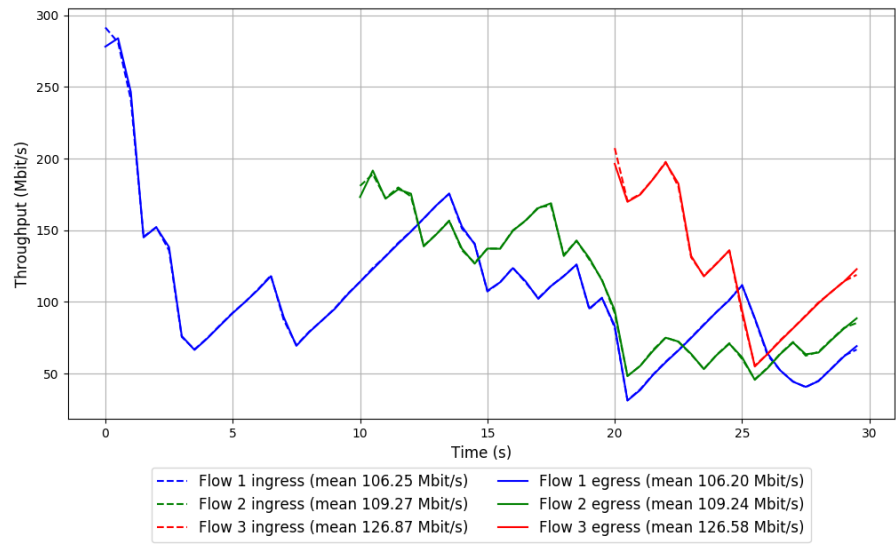
-- Flow 3:

Average throughput: 126.58 Mbit/s

95th percentile per-packet one-way delay: 18.226 ms

Loss rate: 0.23%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-03 23:16:08

End at: 2018-04-03 23:16:38

Local clock offset: 1.313 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.23 Mbit/s

95th percentile per-packet one-way delay: 18.421 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 134.13 Mbit/s

95th percentile per-packet one-way delay: 17.961 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 186.88 Mbit/s

95th percentile per-packet one-way delay: 18.372 ms

Loss rate: 0.08%

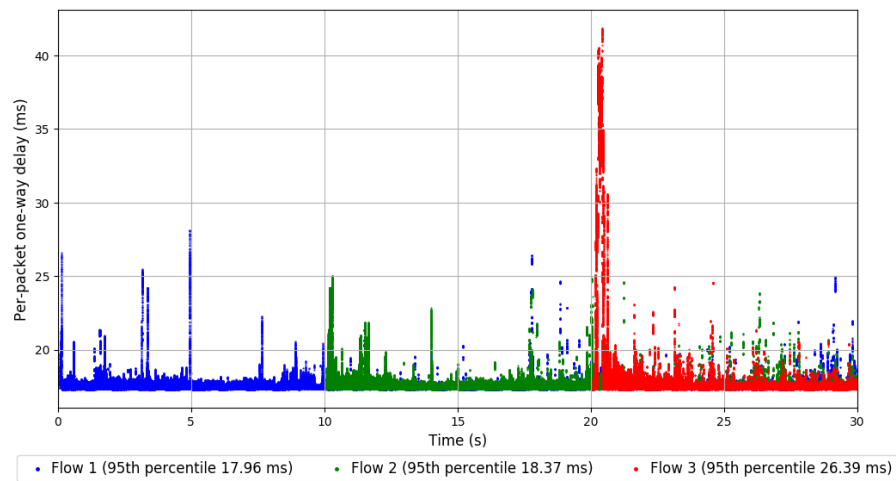
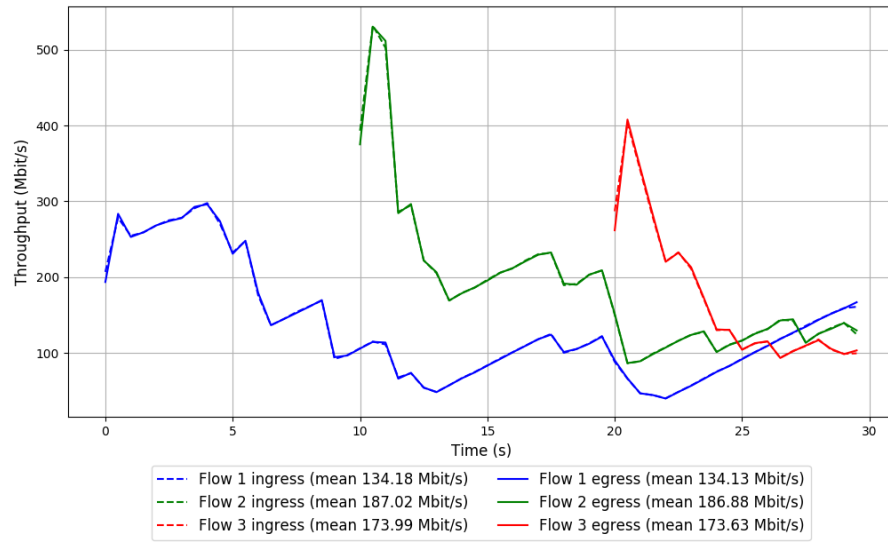
-- Flow 3:

Average throughput: 173.63 Mbit/s

95th percentile per-packet one-way delay: 26.385 ms

Loss rate: 0.20%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-03 23:44:55

End at: 2018-04-03 23:45:26

Local clock offset: 0.929 ms

Remote clock offset: 0.568 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.85 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 104.66 Mbit/s

95th percentile per-packet one-way delay: 18.521 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 60.03 Mbit/s

95th percentile per-packet one-way delay: 17.999 ms

Loss rate: 0.09%

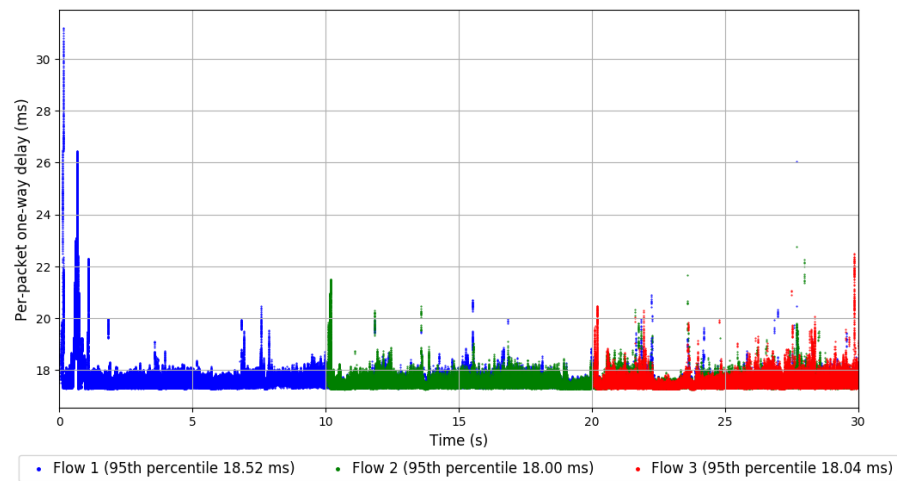
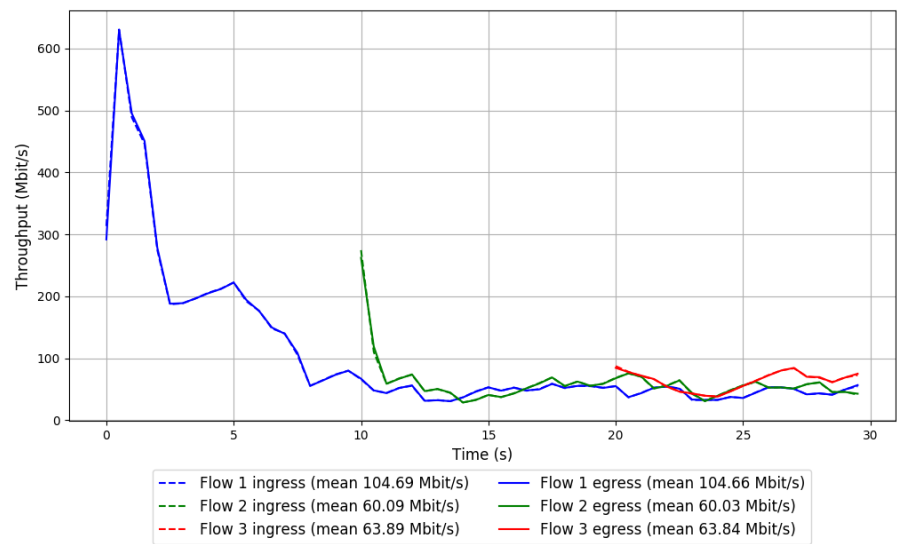
-- Flow 3:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 18.041 ms

Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-04 00:13:41

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

Local clock offset: 0.528 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.32 Mbit/s

95th percentile per-packet one-way delay: 17.702 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 108.21 Mbit/s

95th percentile per-packet one-way delay: 17.715 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 114.71 Mbit/s

95th percentile per-packet one-way delay: 17.690 ms

Loss rate: 0.16%

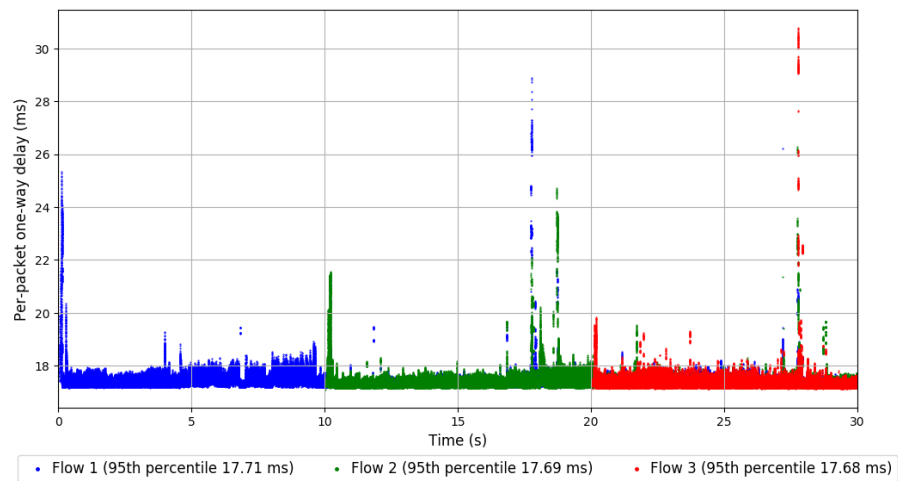
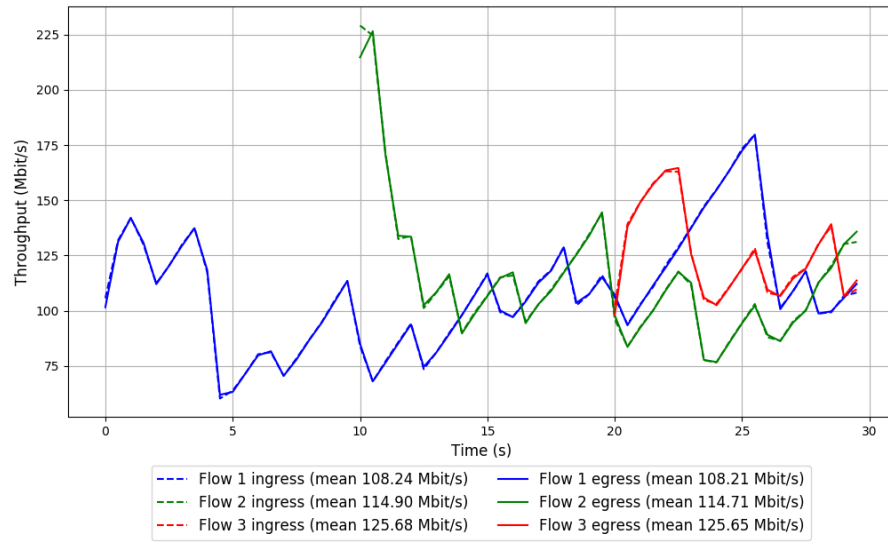
-- Flow 3:

Average throughput: 125.65 Mbit/s

95th percentile per-packet one-way delay: 17.684 ms

Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-04 00:42:26

End at: 2018-04-04 00:42:56

Local clock offset: 0.204 ms

Remote clock offset: 0.486 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.00 Mbit/s

95th percentile per-packet one-way delay: 19.453 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 128.99 Mbit/s

95th percentile per-packet one-way delay: 18.498 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 168.83 Mbit/s

95th percentile per-packet one-way delay: 23.719 ms

Loss rate: 0.11%

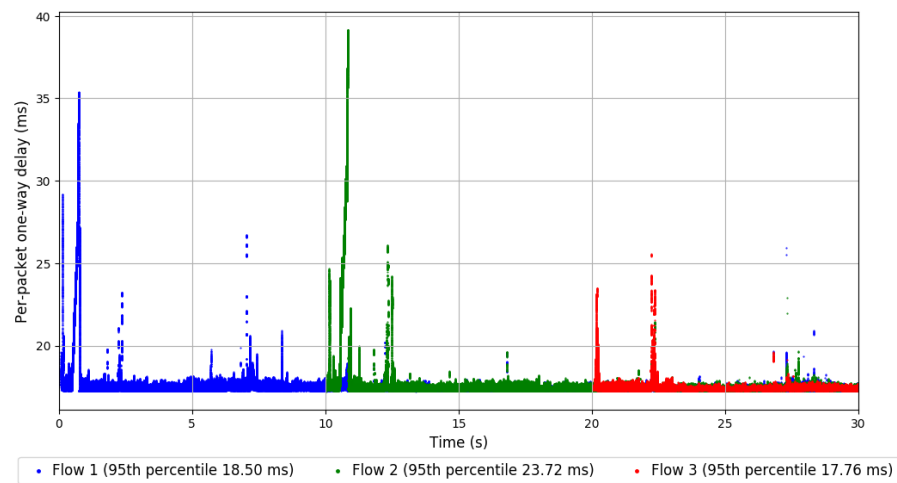
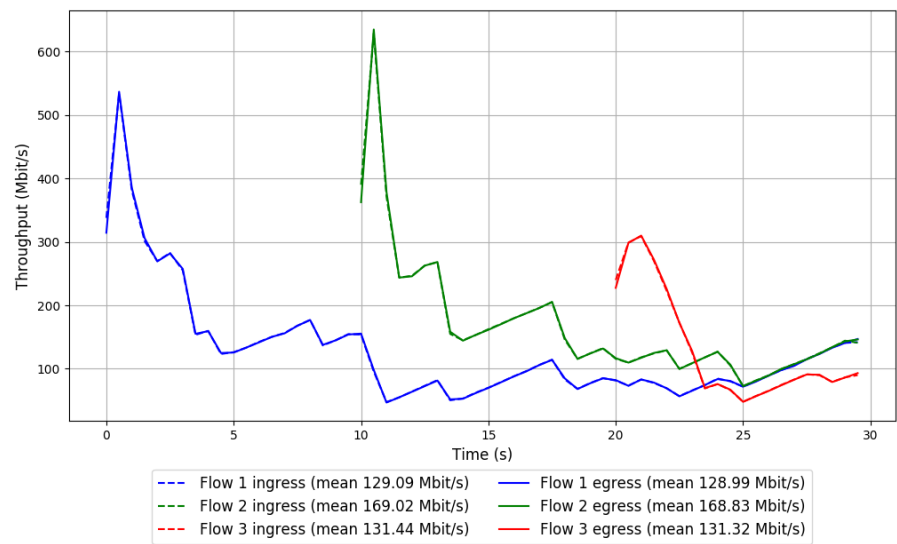
-- Flow 3:

Average throughput: 131.32 Mbit/s

95th percentile per-packet one-way delay: 17.759 ms

Loss rate: 0.09%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-04 01:11:17

End at: 2018-04-04 01:11:47

Local clock offset: -0.158 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.43 Mbit/s

95th percentile per-packet one-way delay: 17.729 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 117.72 Mbit/s

95th percentile per-packet one-way delay: 17.698 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 131.08 Mbit/s

95th percentile per-packet one-way delay: 17.672 ms

Loss rate: 0.03%

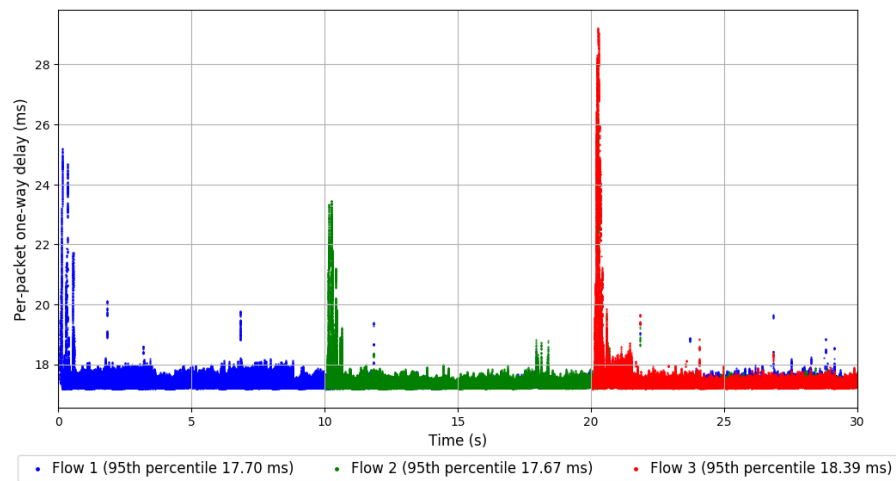
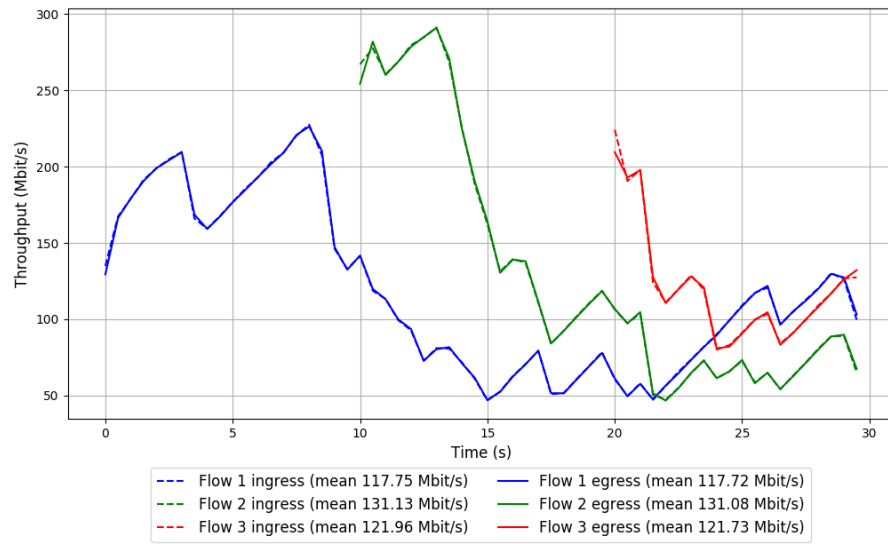
-- Flow 3:

Average throughput: 121.73 Mbit/s

95th percentile per-packet one-way delay: 18.392 ms

Loss rate: 0.25%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-04 01:40:12

End at: 2018-04-04 01:40:42

Local clock offset: 0.179 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.56 Mbit/s

95th percentile per-packet one-way delay: 17.913 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 17.915 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 17.971 ms

Loss rate: 0.02%

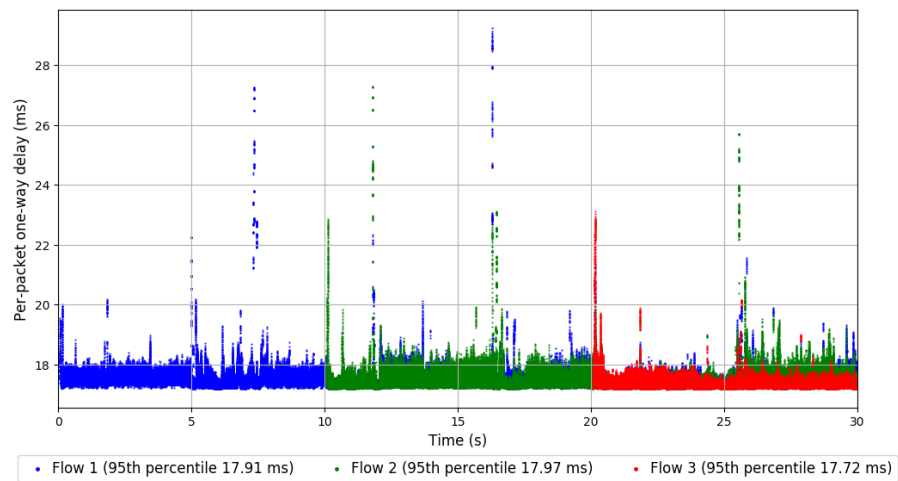
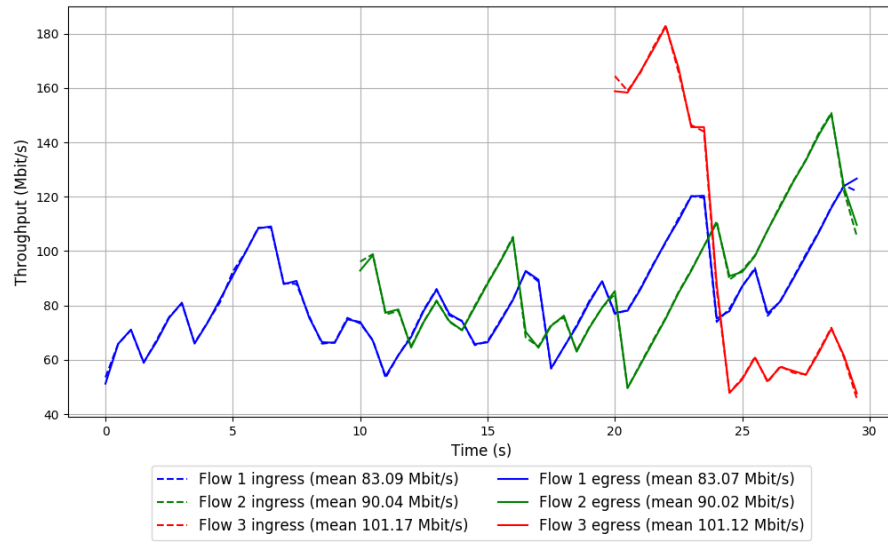
-- Flow 3:

Average throughput: 101.12 Mbit/s

95th percentile per-packet one-way delay: 17.718 ms

Loss rate: 0.05%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-04 02:09:01

End at: 2018-04-04 02:09:31

Local clock offset: 0.255 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.35 Mbit/s

95th percentile per-packet one-way delay: 32.684 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 209.49 Mbit/s

95th percentile per-packet one-way delay: 36.729 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 168.34 Mbit/s

95th percentile per-packet one-way delay: 27.505 ms

Loss rate: 0.07%

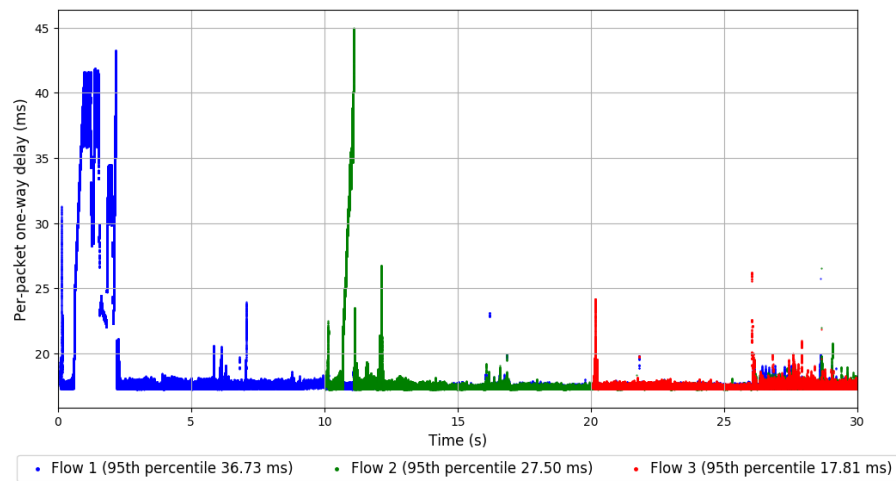
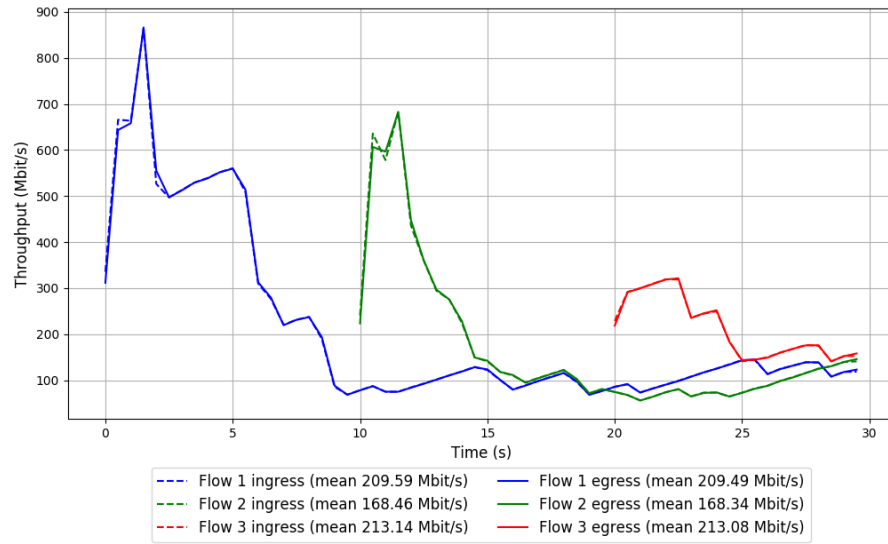
-- Flow 3:

Average throughput: 213.08 Mbit/s

95th percentile per-packet one-way delay: 17.812 ms

Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link

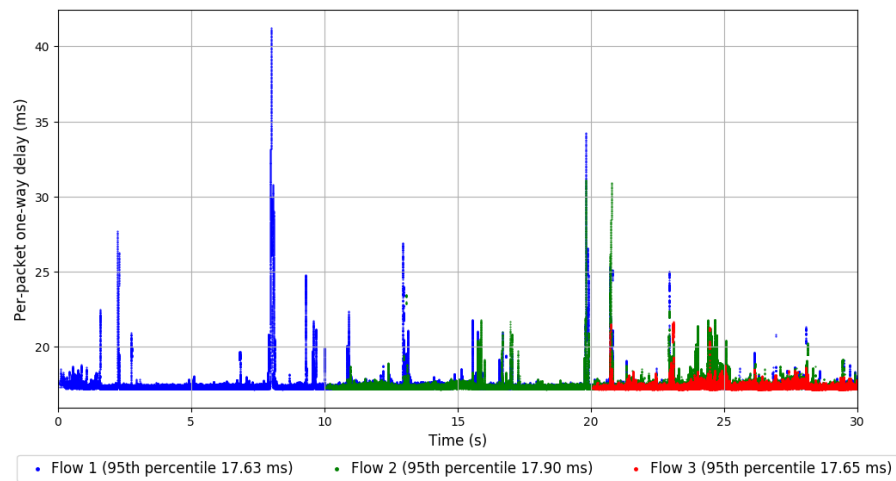
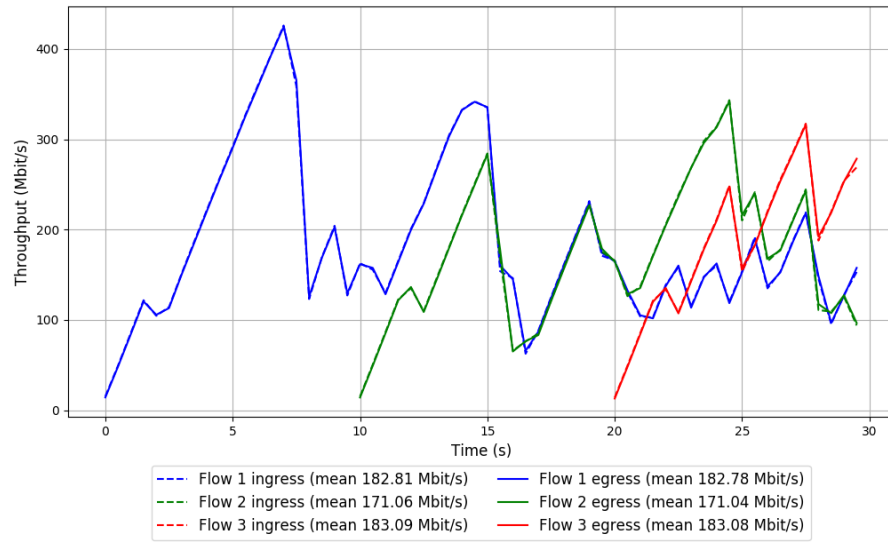


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-03 22:15:38
End at: 2018-04-03 22:16:08
Local clock offset: 0.758 ms
Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2018-04-04 05:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.42 Mbit/s
95th percentile per-packet one-way delay: 17.700 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 182.78 Mbit/s
95th percentile per-packet one-way delay: 17.628 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 171.04 Mbit/s
95th percentile per-packet one-way delay: 17.899 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 183.08 Mbit/s
95th percentile per-packet one-way delay: 17.648 ms
Loss rate: 0.01%
```


Run 1: Report of LEDBAT — Data Link

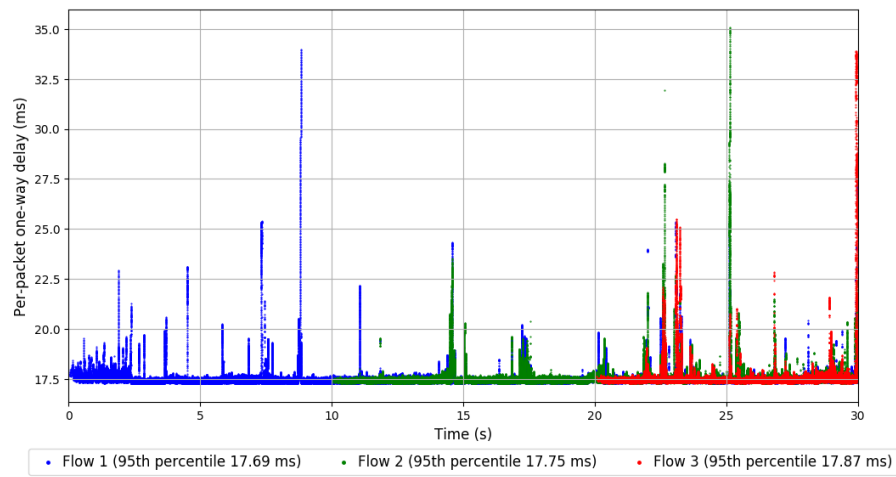
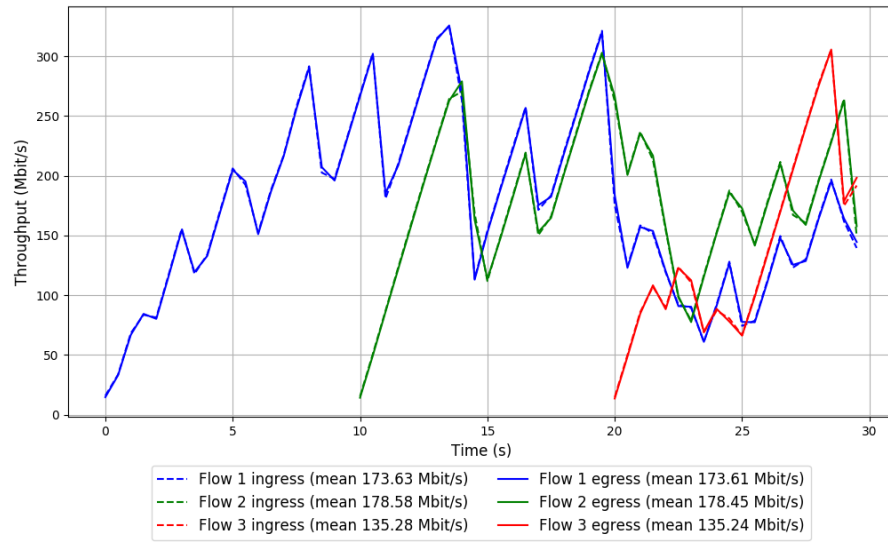


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-03 22:44:33
End at: 2018-04-03 22:45:03
Local clock offset: 1.231 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-04-04 05:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.25 Mbit/s
95th percentile per-packet one-way delay: 17.728 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 173.61 Mbit/s
95th percentile per-packet one-way delay: 17.691 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 178.45 Mbit/s
95th percentile per-packet one-way delay: 17.746 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 135.24 Mbit/s
95th percentile per-packet one-way delay: 17.870 ms
Loss rate: 0.03%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-03 23:12:59

End at: 2018-04-03 23:13:29

Local clock offset: 1.265 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.94 Mbit/s

95th percentile per-packet one-way delay: 18.534 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 146.46 Mbit/s

95th percentile per-packet one-way delay: 18.308 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 158.78 Mbit/s

95th percentile per-packet one-way delay: 18.729 ms

Loss rate: 0.02%

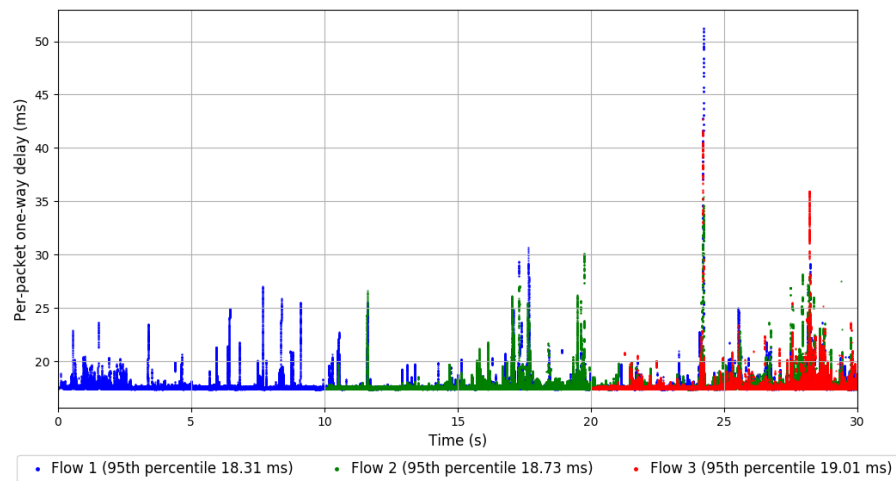
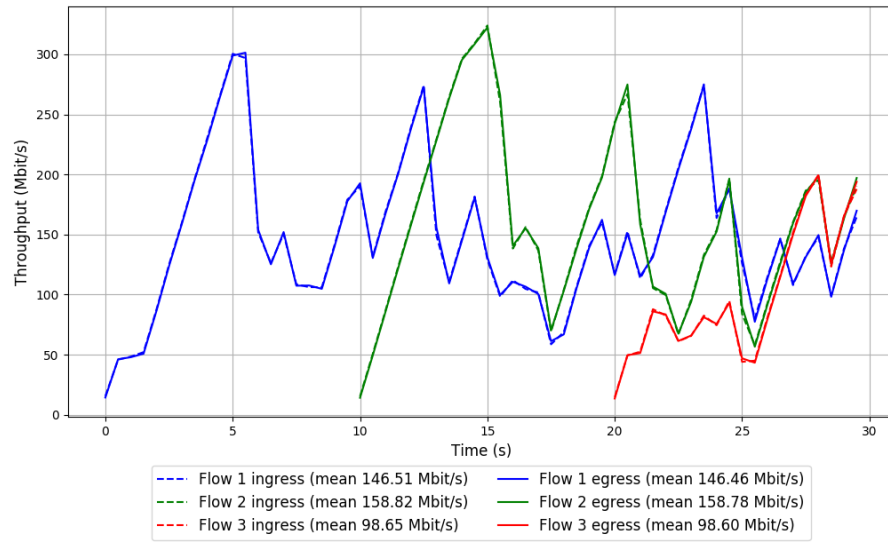
-- Flow 3:

Average throughput: 98.60 Mbit/s

95th percentile per-packet one-way delay: 19.009 ms

Loss rate: 0.06%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-03 23:41:48

End at: 2018-04-03 23:42:18

Local clock offset: 0.995 ms

Remote clock offset: 0.475 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.86 Mbit/s

95th percentile per-packet one-way delay: 17.521 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 129.71 Mbit/s

95th percentile per-packet one-way delay: 17.542 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 126.78 Mbit/s

95th percentile per-packet one-way delay: 17.516 ms

Loss rate: 0.02%

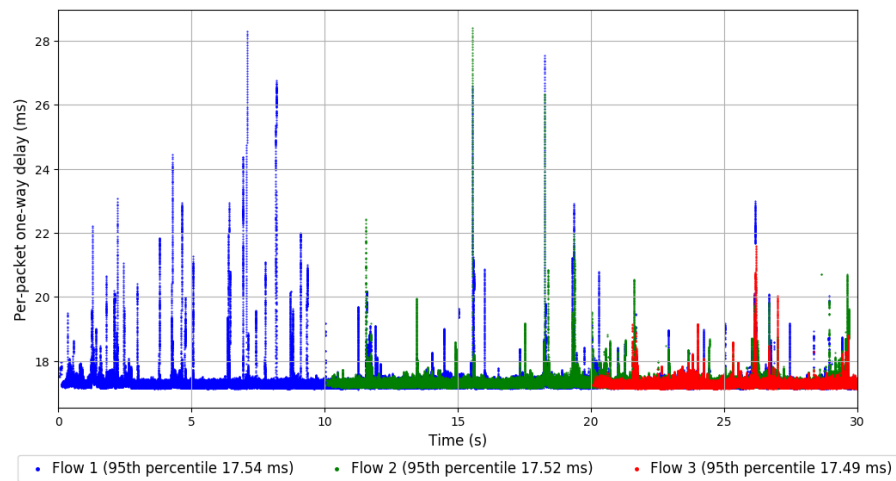
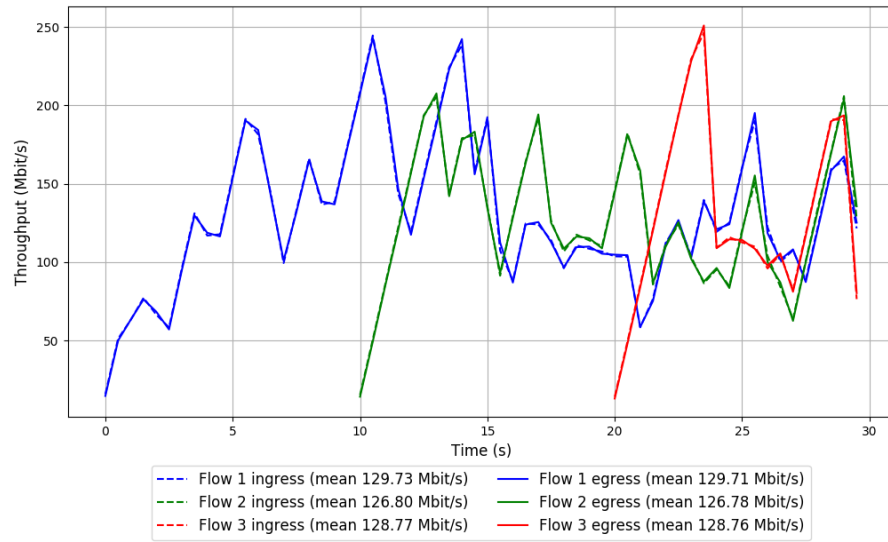
-- Flow 3:

Average throughput: 128.76 Mbit/s

95th percentile per-packet one-way delay: 17.487 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-04 00:10:33

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

Local clock offset: 0.524 ms

Remote clock offset: 0.584 ms

Below is generated by plot.py at 2018-04-04 05:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.76 Mbit/s

95th percentile per-packet one-way delay: 17.887 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 147.87 Mbit/s

95th percentile per-packet one-way delay: 17.962 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 124.76 Mbit/s

95th percentile per-packet one-way delay: 17.789 ms

Loss rate: 0.02%

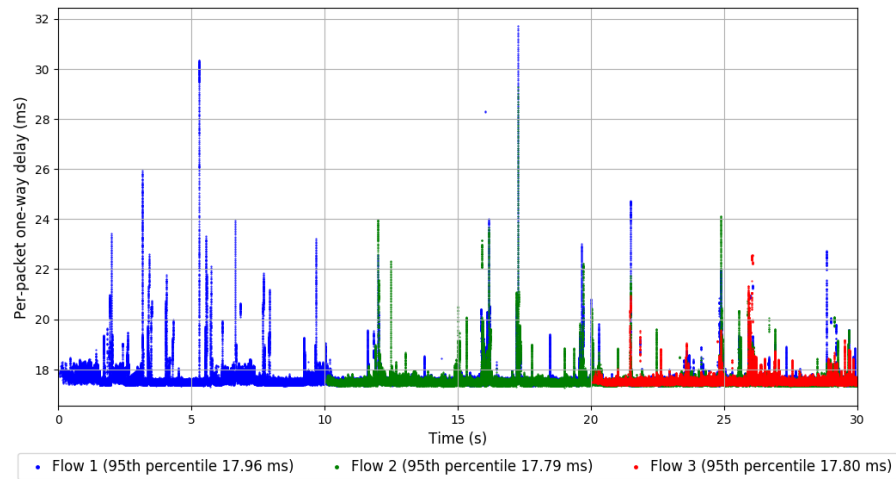
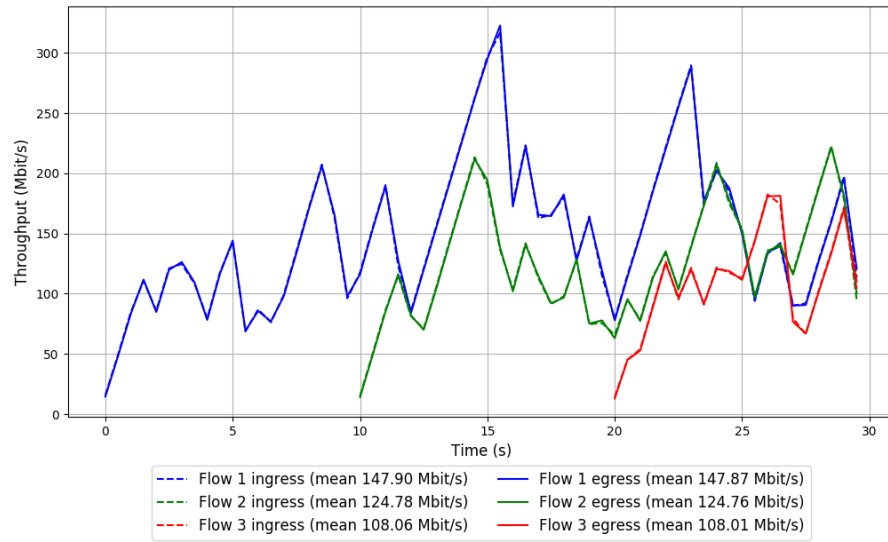
-- Flow 3:

Average throughput: 108.01 Mbit/s

95th percentile per-packet one-way delay: 17.803 ms

Loss rate: 0.04%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-04 00:39:14

End at: 2018-04-04 00:39:44

Local clock offset: 0.165 ms

Remote clock offset: 0.504 ms

Below is generated by plot.py at 2018-04-04 05:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.12 Mbit/s

95th percentile per-packet one-way delay: 17.881 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 173.29 Mbit/s

95th percentile per-packet one-way delay: 17.844 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 157.31 Mbit/s

95th percentile per-packet one-way delay: 17.873 ms

Loss rate: 0.05%

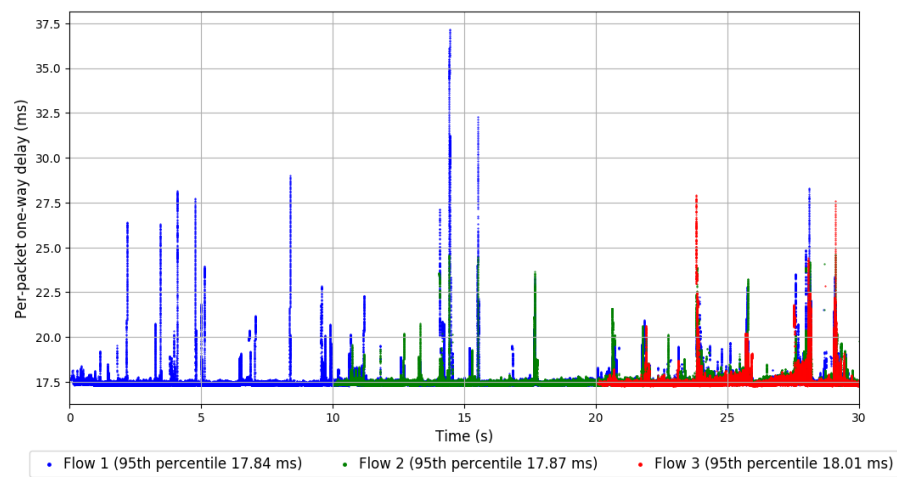
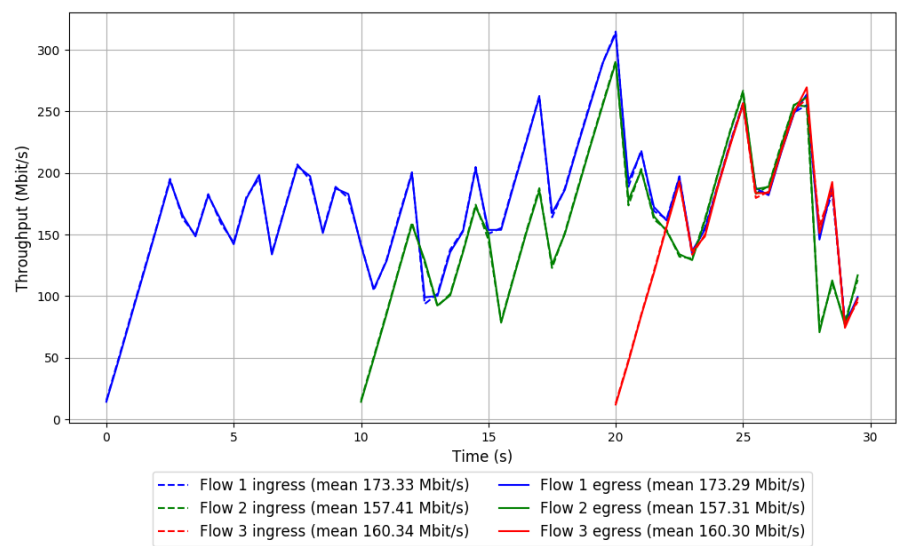
-- Flow 3:

Average throughput: 160.30 Mbit/s

95th percentile per-packet one-way delay: 18.008 ms

Loss rate: 0.02%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-04 01:08:07

End at: 2018-04-04 01:08:37

Local clock offset: -0.139 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2018-04-04 05:46:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.69 Mbit/s

95th percentile per-packet one-way delay: 17.598 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 161.06 Mbit/s

95th percentile per-packet one-way delay: 17.597 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 173.00 Mbit/s

95th percentile per-packet one-way delay: 17.602 ms

Loss rate: 0.03%

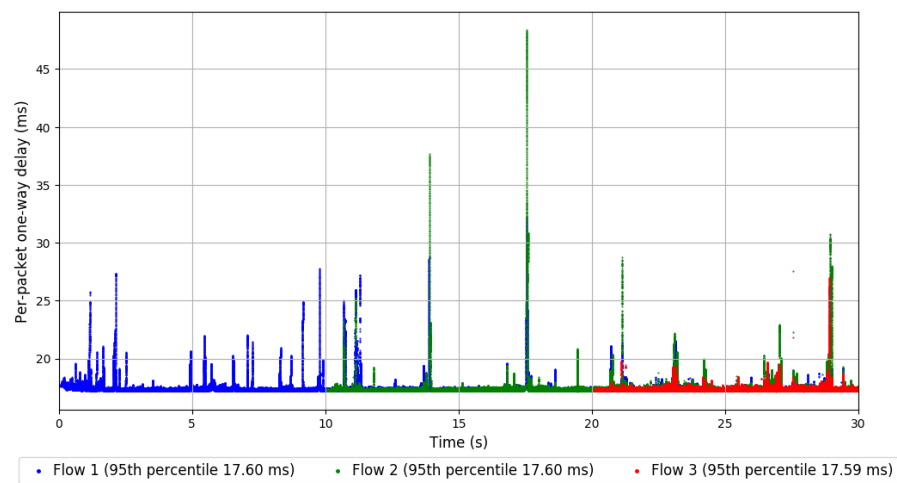
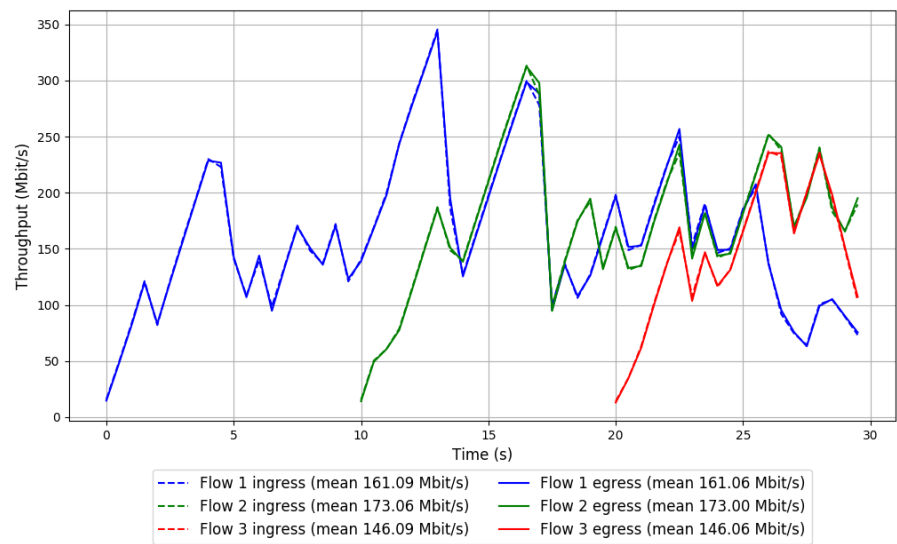
-- Flow 3:

Average throughput: 146.06 Mbit/s

95th percentile per-packet one-way delay: 17.591 ms

Loss rate: 0.02%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-04 01:37:00

End at: 2018-04-04 01:37:30

Local clock offset: 0.219 ms

Remote clock offset: 0.36 ms

Below is generated by plot.py at 2018-04-04 05:46:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.50 Mbit/s

95th percentile per-packet one-way delay: 17.525 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 155.33 Mbit/s

95th percentile per-packet one-way delay: 17.468 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 186.08 Mbit/s

95th percentile per-packet one-way delay: 17.523 ms

Loss rate: 0.01%

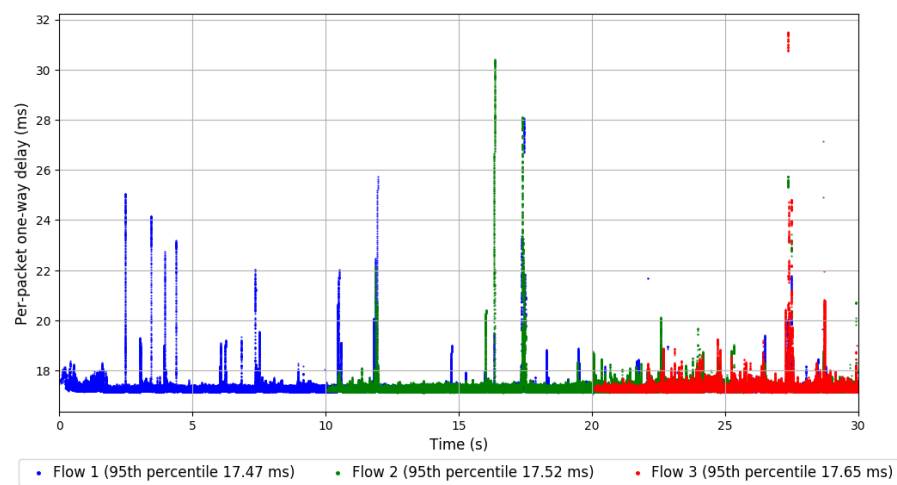
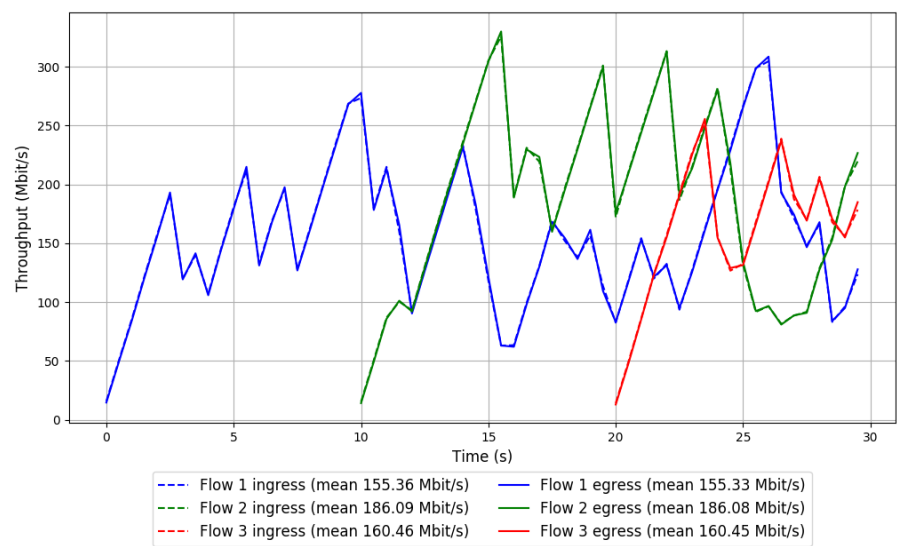
-- Flow 3:

Average throughput: 160.45 Mbit/s

95th percentile per-packet one-way delay: 17.647 ms

Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-04 02:05:47

End at: 2018-04-04 02:06:17

Local clock offset: 0.16 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2018-04-04 05:46:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.70 Mbit/s

95th percentile per-packet one-way delay: 17.780 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 222.88 Mbit/s

95th percentile per-packet one-way delay: 17.741 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 184.82 Mbit/s

95th percentile per-packet one-way delay: 17.892 ms

Loss rate: 0.01%

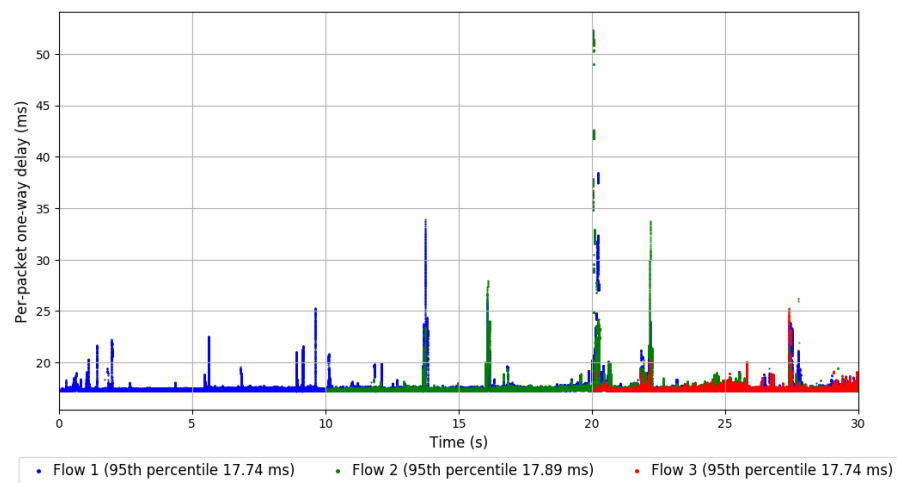
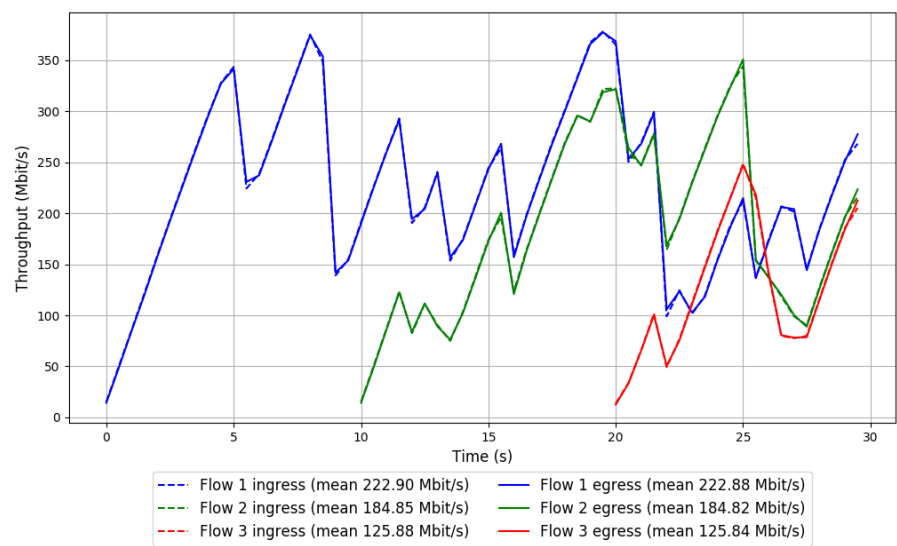
-- Flow 3:

Average throughput: 125.84 Mbit/s

95th percentile per-packet one-way delay: 17.741 ms

Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-04 02:34:53

End at: 2018-04-04 02:35:23

Local clock offset: 0.495 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2018-04-04 05:46:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.87 Mbit/s

95th percentile per-packet one-way delay: 17.737 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 172.28 Mbit/s

95th percentile per-packet one-way delay: 17.732 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 115.32 Mbit/s

95th percentile per-packet one-way delay: 17.706 ms

Loss rate: 0.02%

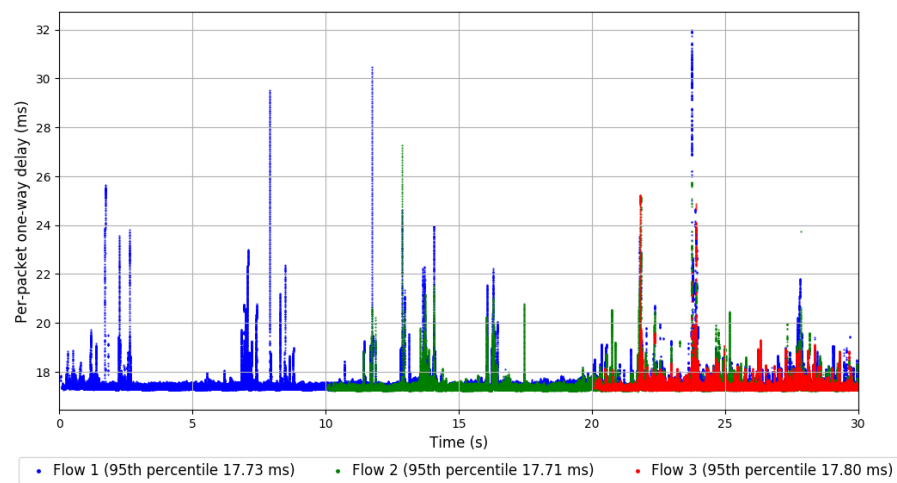
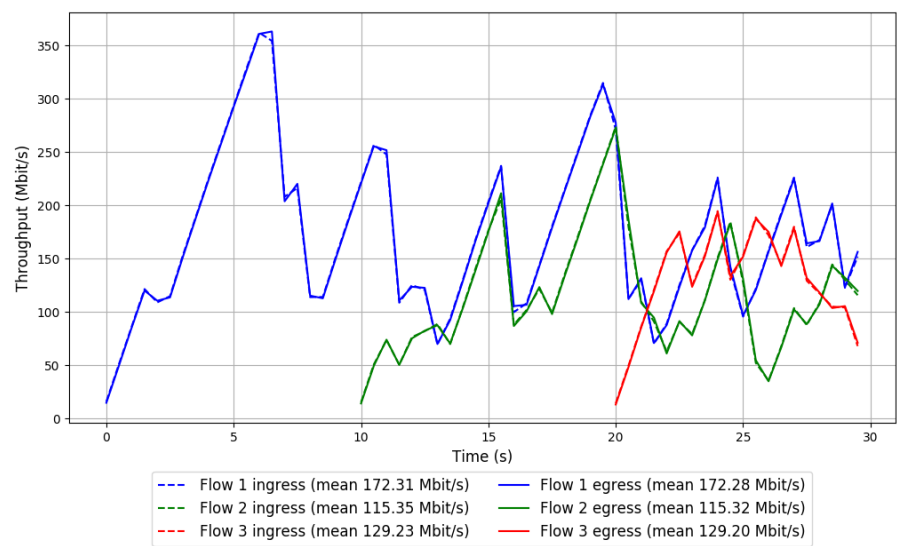
-- Flow 3:

Average throughput: 129.20 Mbit/s

95th percentile per-packet one-way delay: 17.796 ms

Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

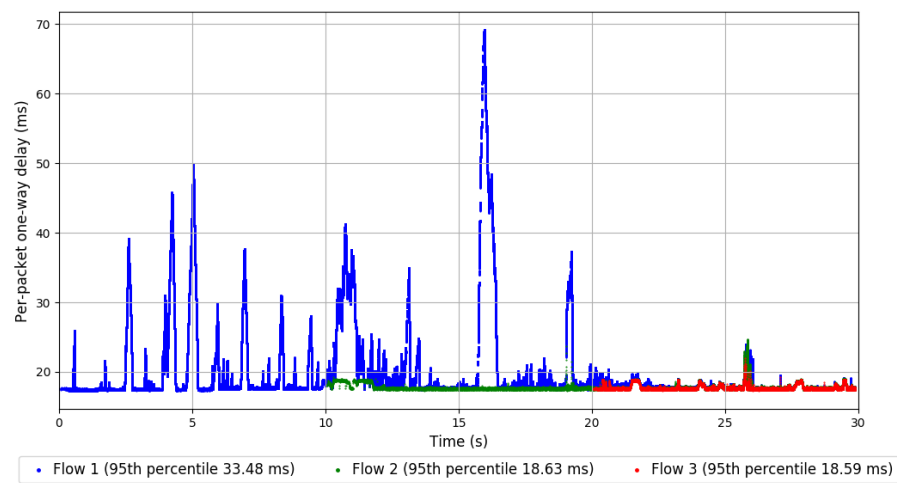
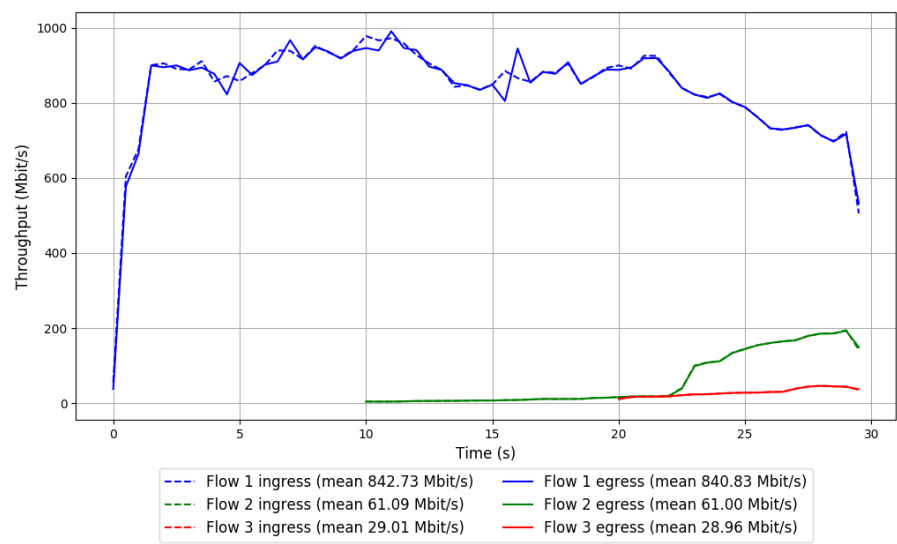


```
Run 1: Statistics of PCC

Start at: 2018-04-03 22:12:05
End at: 2018-04-03 22:12:35
Local clock offset: 0.701 ms
Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2018-04-04 05:54:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 890.94 Mbit/s
95th percentile per-packet one-way delay: 33.093 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 840.83 Mbit/s
95th percentile per-packet one-way delay: 33.483 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 61.00 Mbit/s
95th percentile per-packet one-way delay: 18.626 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 28.96 Mbit/s
95th percentile per-packet one-way delay: 18.593 ms
Loss rate: 0.17%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-03 22:41:00

End at: 2018-04-03 22:41:30

Local clock offset: 1.261 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-04-04 05:57:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 926.36 Mbit/s

95th percentile per-packet one-way delay: 48.867 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 766.37 Mbit/s

95th percentile per-packet one-way delay: 52.079 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 202.29 Mbit/s

95th percentile per-packet one-way delay: 18.736 ms

Loss rate: 0.39%

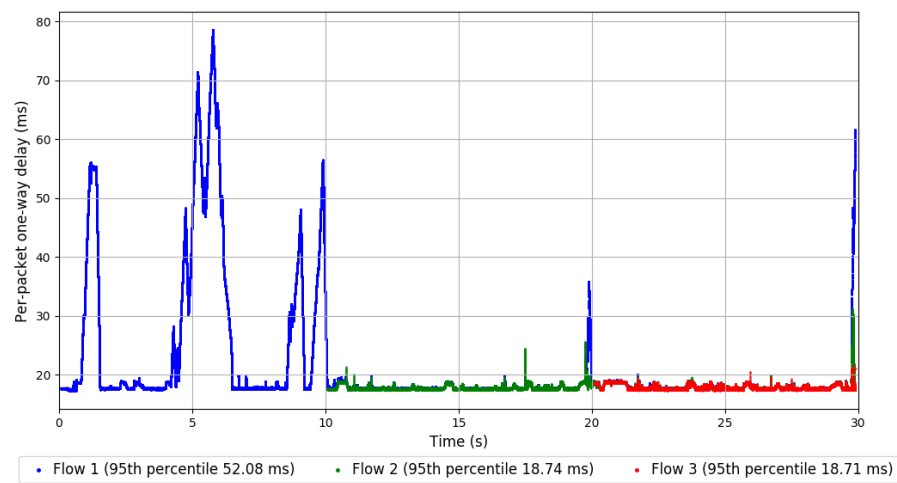
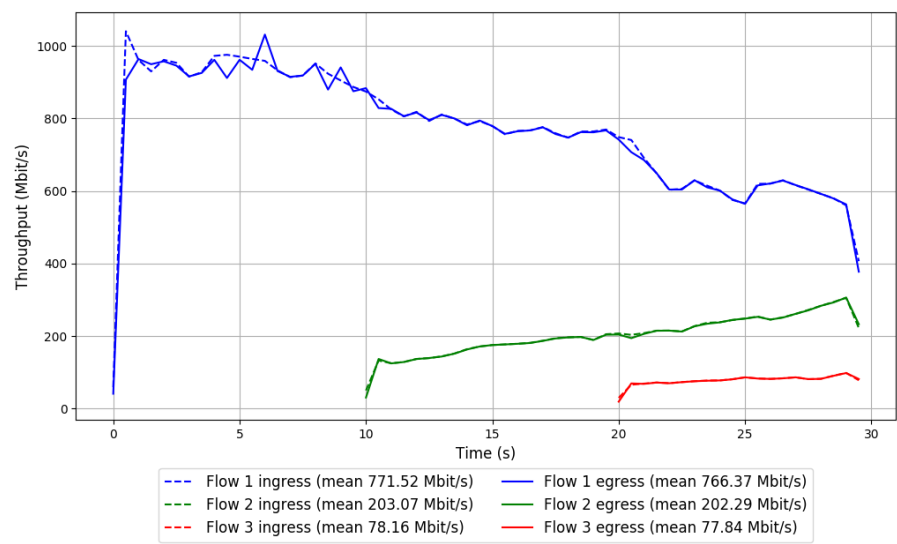
-- Flow 3:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 18.708 ms

Loss rate: 0.39%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-03 23:09:46

End at: 2018-04-03 23:10:16

Local clock offset: 1.333 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2018-04-04 05:57:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 779.26 Mbit/s

95th percentile per-packet one-way delay: 83.088 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 598.26 Mbit/s

95th percentile per-packet one-way delay: 89.981 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 239.58 Mbit/s

95th percentile per-packet one-way delay: 18.865 ms

Loss rate: 1.41%

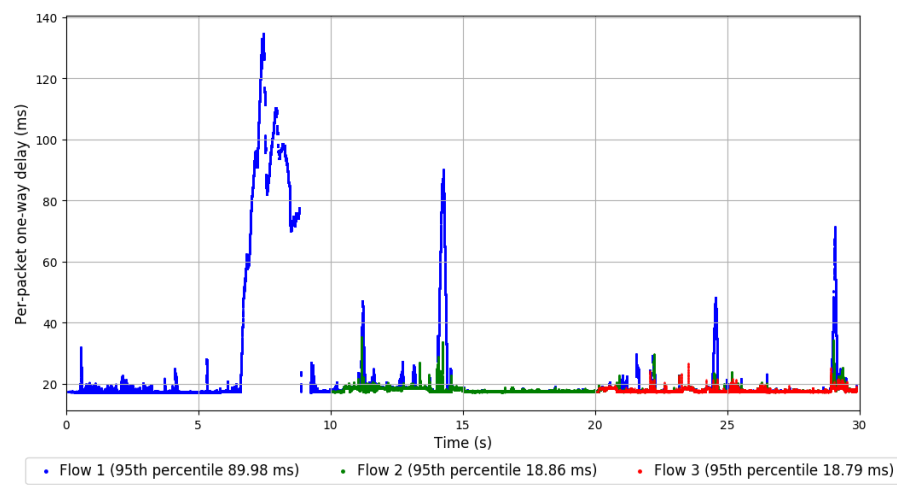
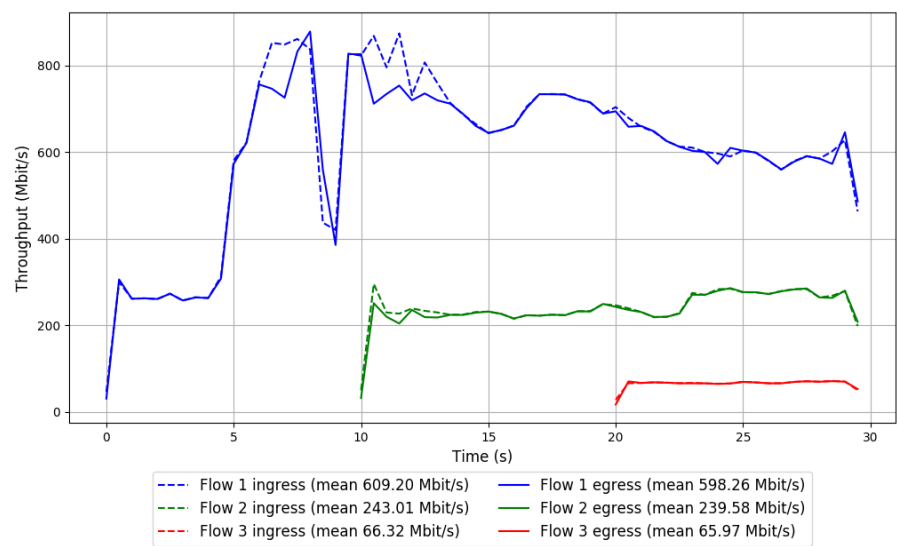
-- Flow 3:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 18.791 ms

Loss rate: 0.53%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-03 23:38:16

End at: 2018-04-03 23:38:46

Local clock offset: 0.979 ms

Remote clock offset: 0.416 ms

Below is generated by plot.py at 2018-04-04 05:59:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 915.73 Mbit/s

95th percentile per-packet one-way delay: 66.563 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 700.58 Mbit/s

95th percentile per-packet one-way delay: 72.205 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 303.65 Mbit/s

95th percentile per-packet one-way delay: 18.676 ms

Loss rate: 0.20%

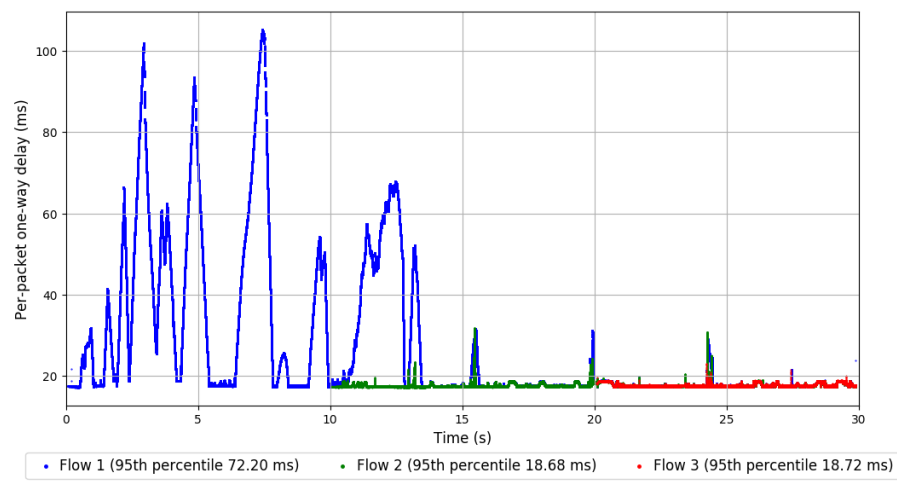
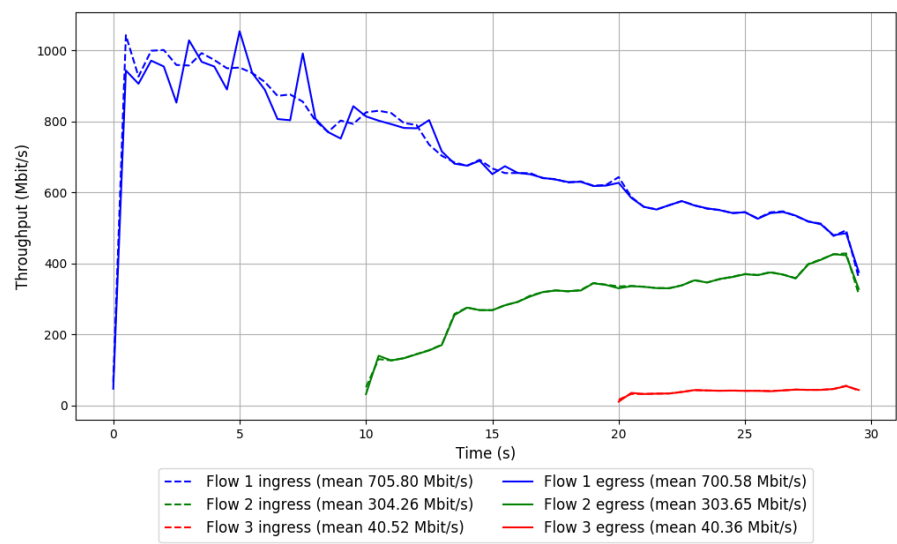
-- Flow 3:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 18.719 ms

Loss rate: 0.43%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-04 00:07:03

End at: 2018-04-04 00:07:33

Local clock offset: 0.655 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2018-04-04 05:59:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.81 Mbit/s

95th percentile per-packet one-way delay: 26.764 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 755.98 Mbit/s

95th percentile per-packet one-way delay: 29.135 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 144.97 Mbit/s

95th percentile per-packet one-way delay: 18.582 ms

Loss rate: 0.30%

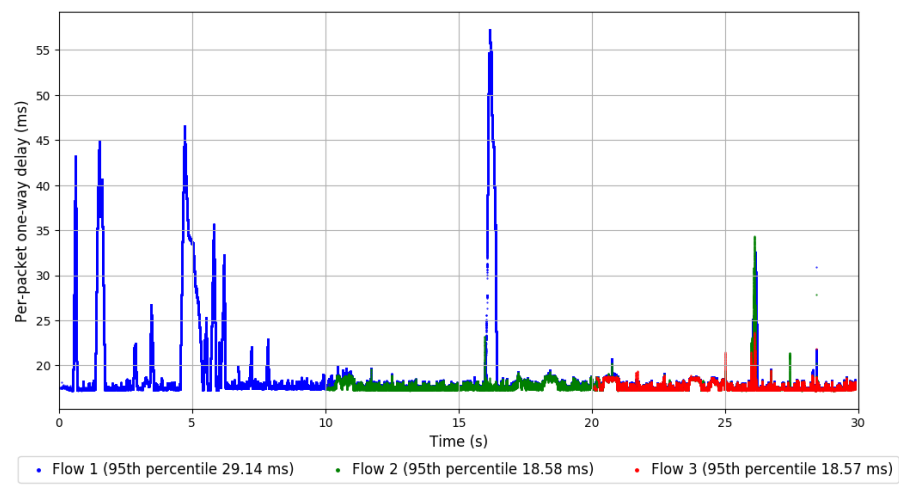
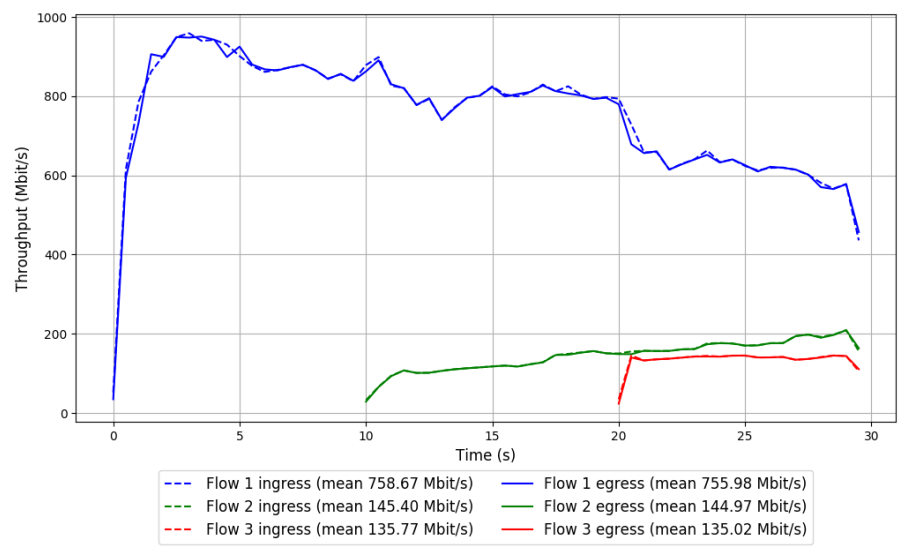
-- Flow 3:

Average throughput: 135.02 Mbit/s

95th percentile per-packet one-way delay: 18.573 ms

Loss rate: 0.55%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-04 00:35:42

End at: 2018-04-04 00:36:12

Local clock offset: 0.134 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2018-04-04 05:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 894.90 Mbit/s

95th percentile per-packet one-way delay: 88.870 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 717.50 Mbit/s

95th percentile per-packet one-way delay: 96.078 ms

Loss rate: 2.48%

-- Flow 2:

Average throughput: 226.07 Mbit/s

95th percentile per-packet one-way delay: 18.664 ms

Loss rate: 0.42%

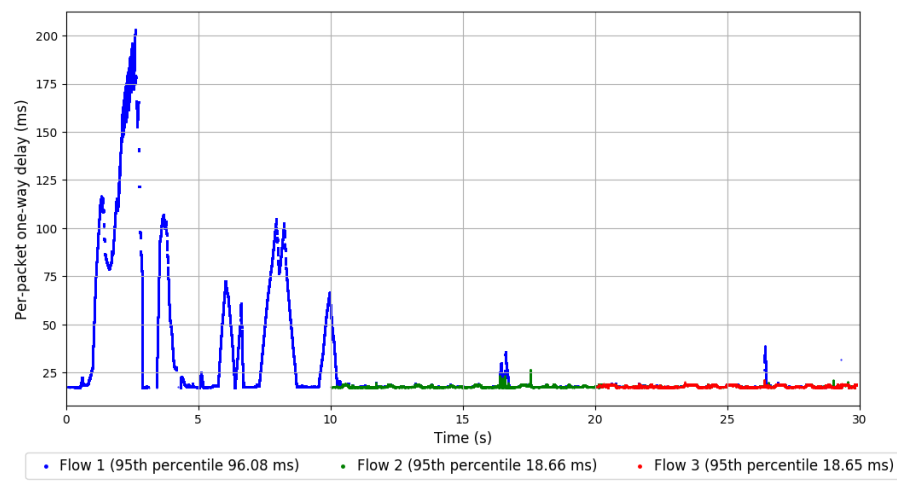
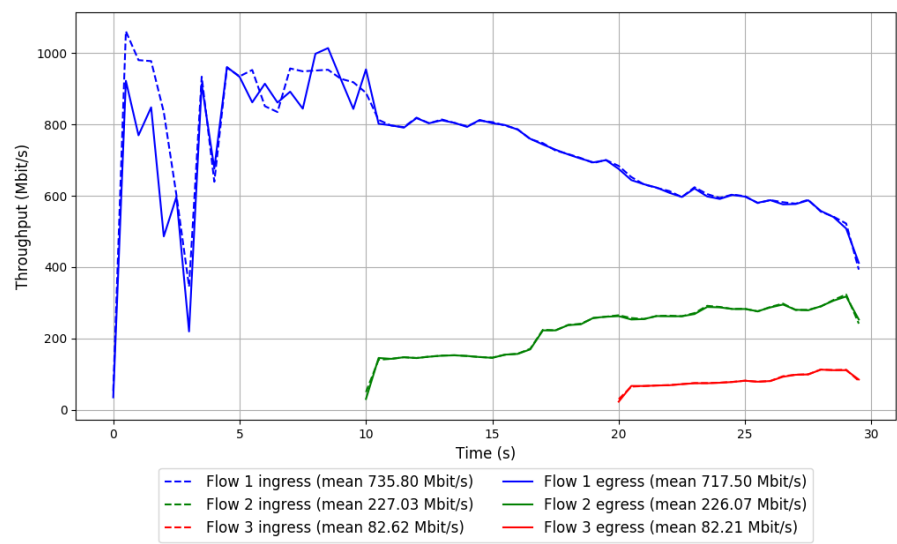
-- Flow 3:

Average throughput: 82.21 Mbit/s

95th percentile per-packet one-way delay: 18.652 ms

Loss rate: 0.50%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-04 01:04:34

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

Local clock offset: -0.079 ms

Remote clock offset: 0.353 ms

Below is generated by plot.py at 2018-04-04 06:00:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 930.55 Mbit/s

95th percentile per-packet one-way delay: 74.849 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 769.69 Mbit/s

95th percentile per-packet one-way delay: 76.177 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 171.01 Mbit/s

95th percentile per-packet one-way delay: 18.623 ms

Loss rate: 0.23%

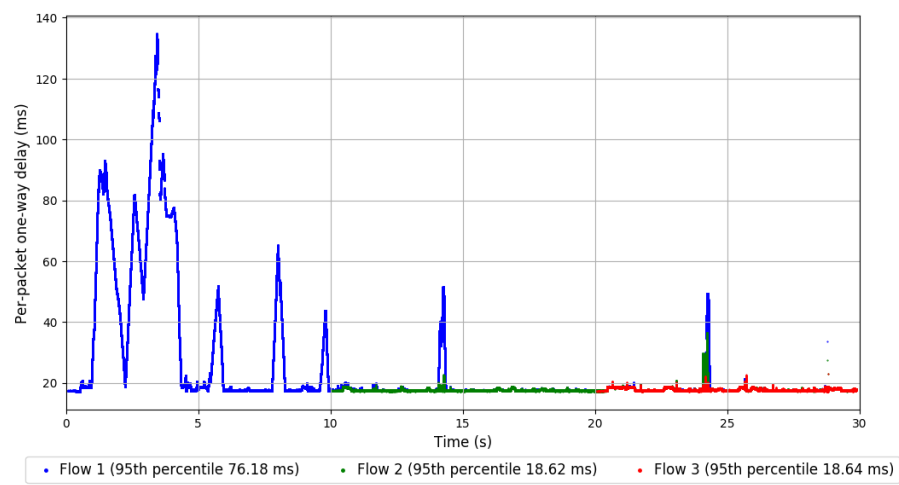
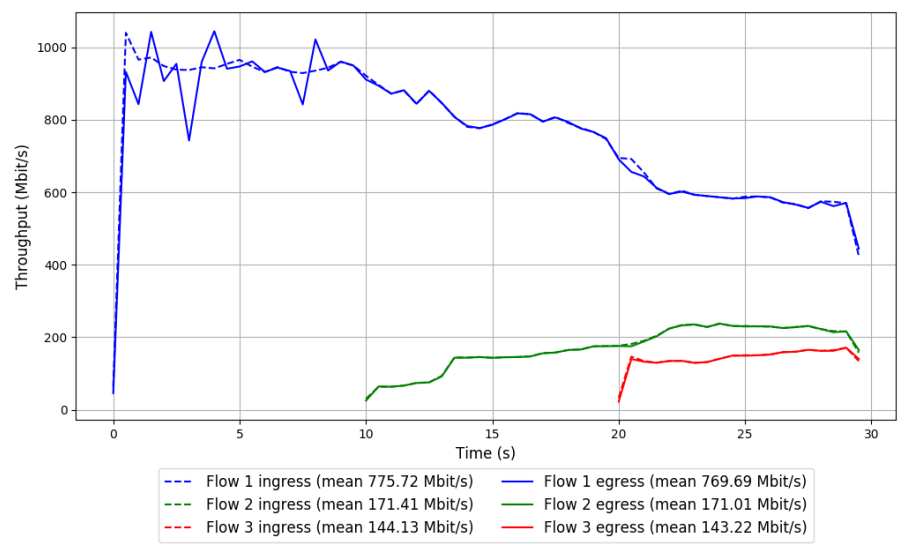
-- Flow 3:

Average throughput: 143.22 Mbit/s

95th percentile per-packet one-way delay: 18.643 ms

Loss rate: 0.63%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-04 01:33:25

End at: 2018-04-04 01:33:55

Local clock offset: 0.193 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-04-04 06:01:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 927.36 Mbit/s

95th percentile per-packet one-way delay: 40.928 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 776.16 Mbit/s

95th percentile per-packet one-way delay: 45.744 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 187.97 Mbit/s

95th percentile per-packet one-way delay: 18.549 ms

Loss rate: 0.24%

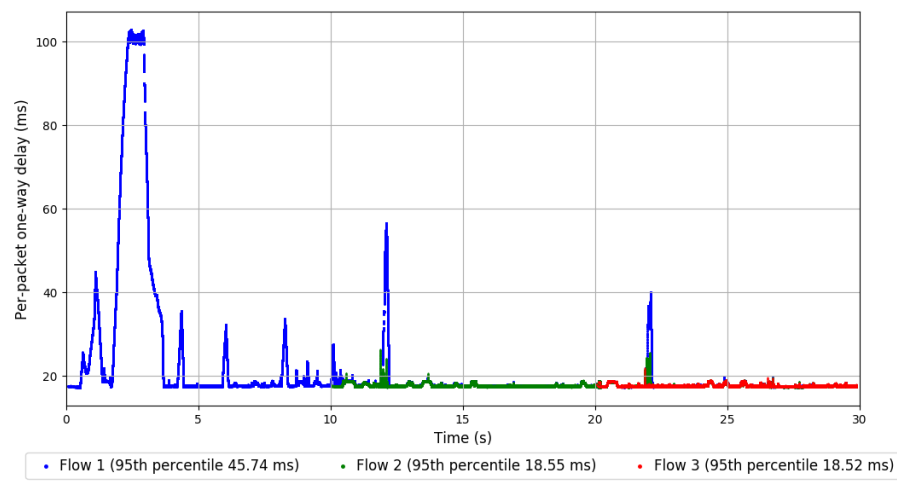
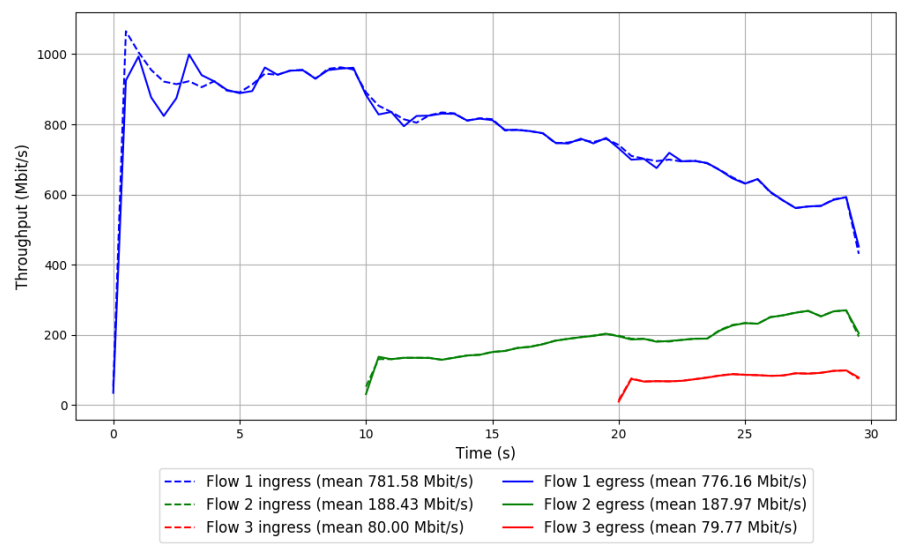
-- Flow 3:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 18.515 ms

Loss rate: 0.29%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-04 02:02:16

End at: 2018-04-04 02:02:46

Local clock offset: 0.076 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-04-04 06:09:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 898.65 Mbit/s

95th percentile per-packet one-way delay: 48.188 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 746.02 Mbit/s

95th percentile per-packet one-way delay: 63.152 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 192.97 Mbit/s

95th percentile per-packet one-way delay: 18.614 ms

Loss rate: 0.33%

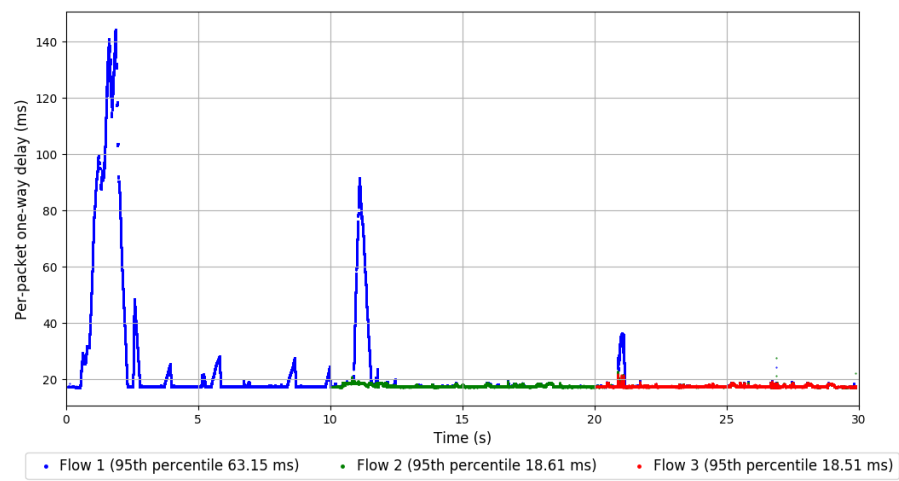
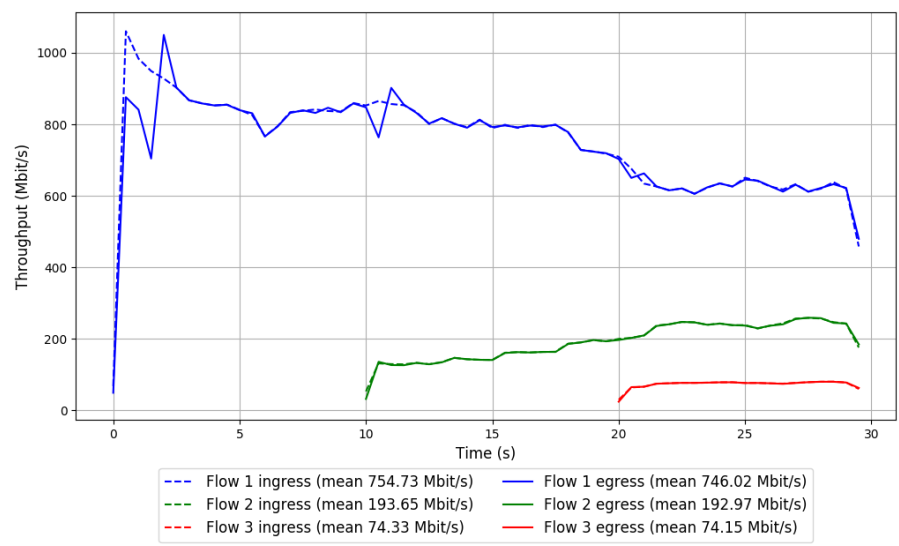
-- Flow 3:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 18.514 ms

Loss rate: 0.24%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-04 02:31:20

End at: 2018-04-04 02:31:50

Local clock offset: 0.565 ms

Remote clock offset: 0.594 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 906.01 Mbit/s

95th percentile per-packet one-way delay: 56.439 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 820.12 Mbit/s

95th percentile per-packet one-way delay: 59.893 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 77.30 Mbit/s

95th percentile per-packet one-way delay: 18.578 ms

Loss rate: 0.23%

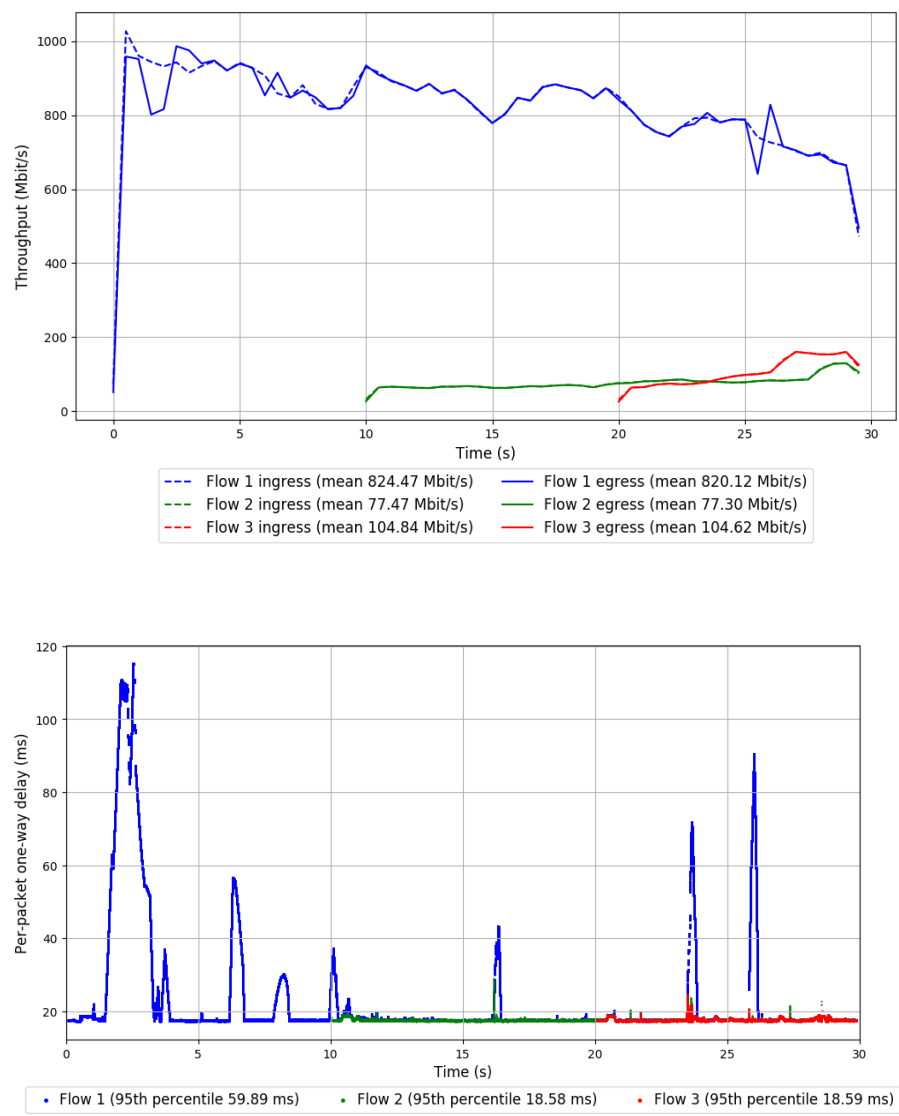
-- Flow 3:

Average throughput: 104.62 Mbit/s

95th percentile per-packet one-way delay: 18.590 ms

Loss rate: 0.21%

Run 10: Report of PCC — Data Link

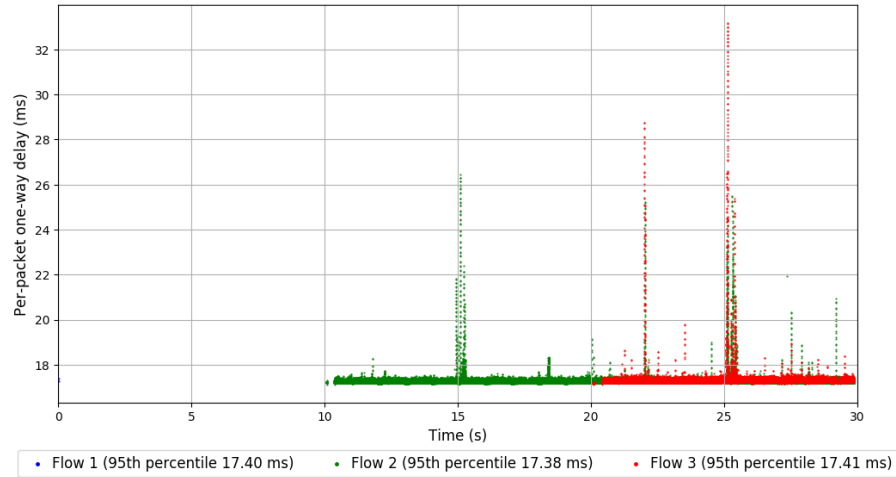
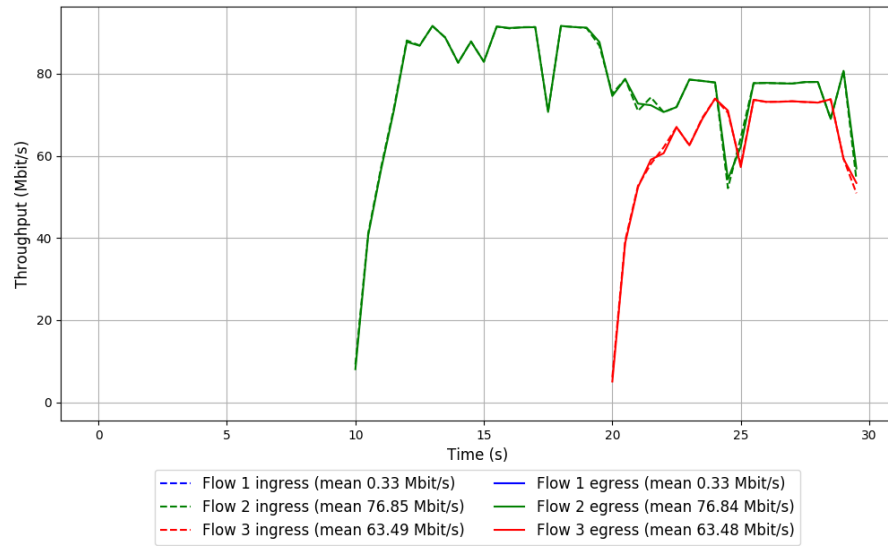


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-03 21:52:56
End at: 2018-04-03 21:53:26
Local clock offset: 0.89 ms
Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2018-04-04 06:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.89 Mbit/s
95th percentile per-packet one-way delay: 17.388 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 17.397 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.84 Mbit/s
95th percentile per-packet one-way delay: 17.375 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 17.415 ms
Loss rate: 0.01%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-03 22:21:40

End at: 2018-04-03 22:22:10

Local clock offset: 0.785 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.04 Mbit/s

95th percentile per-packet one-way delay: 19.391 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 17.572 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.30 Mbit/s

95th percentile per-packet one-way delay: 21.421 ms

Loss rate: 0.01%

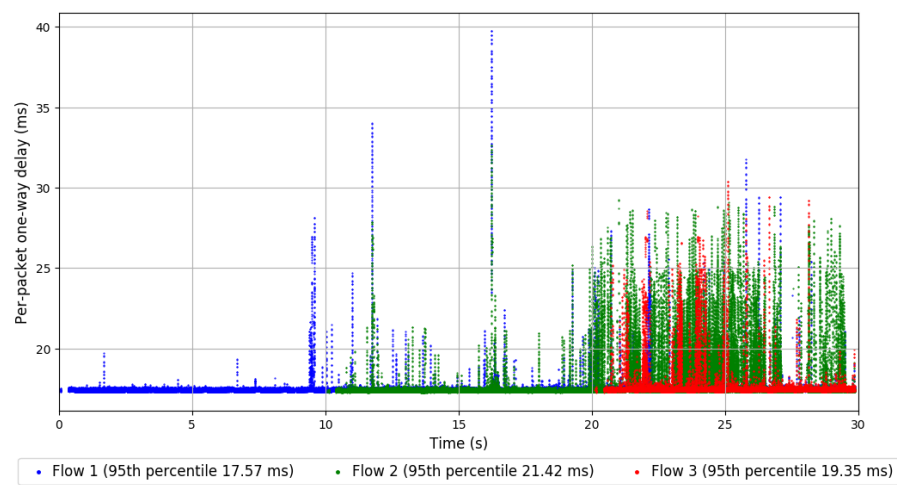
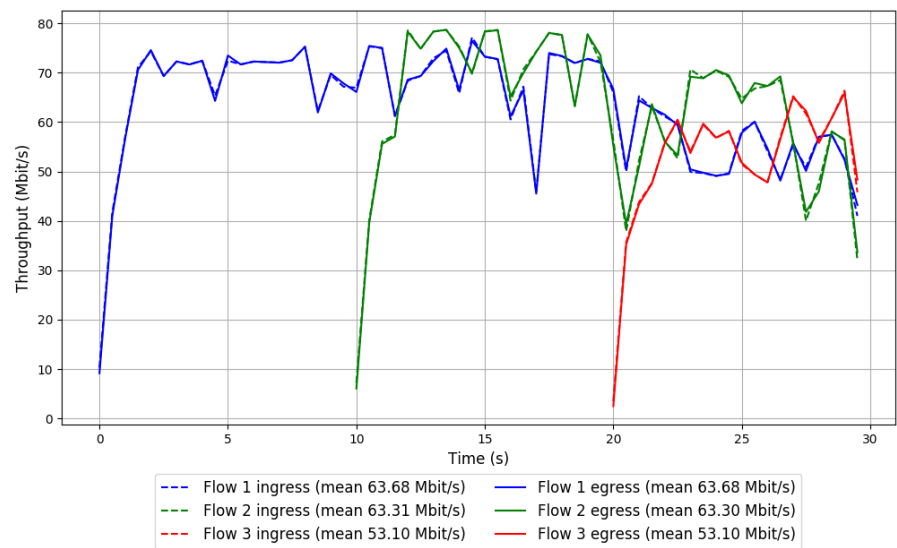
-- Flow 3:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 19.354 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-03 22:50:30

End at: 2018-04-03 22:51:00

Local clock offset: 1.353 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.75 Mbit/s

95th percentile per-packet one-way delay: 17.531 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.42 Mbit/s

95th percentile per-packet one-way delay: 17.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.84 Mbit/s

95th percentile per-packet one-way delay: 17.542 ms

Loss rate: 0.00%

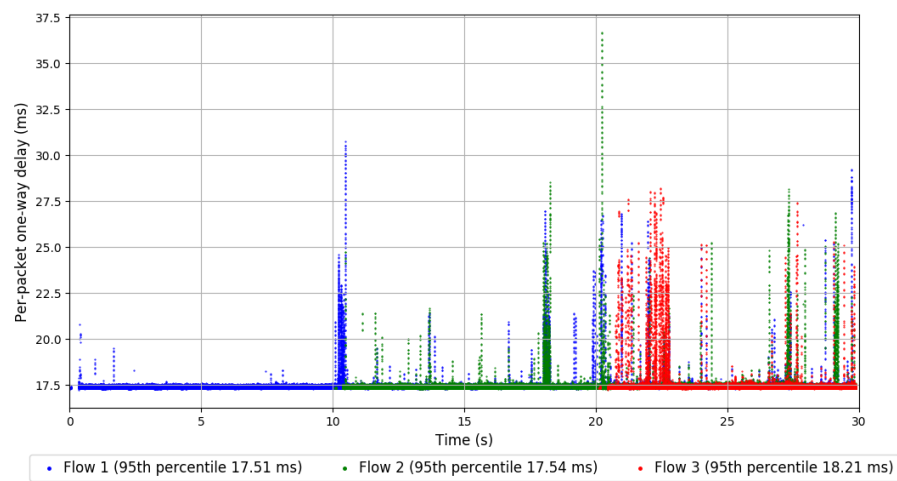
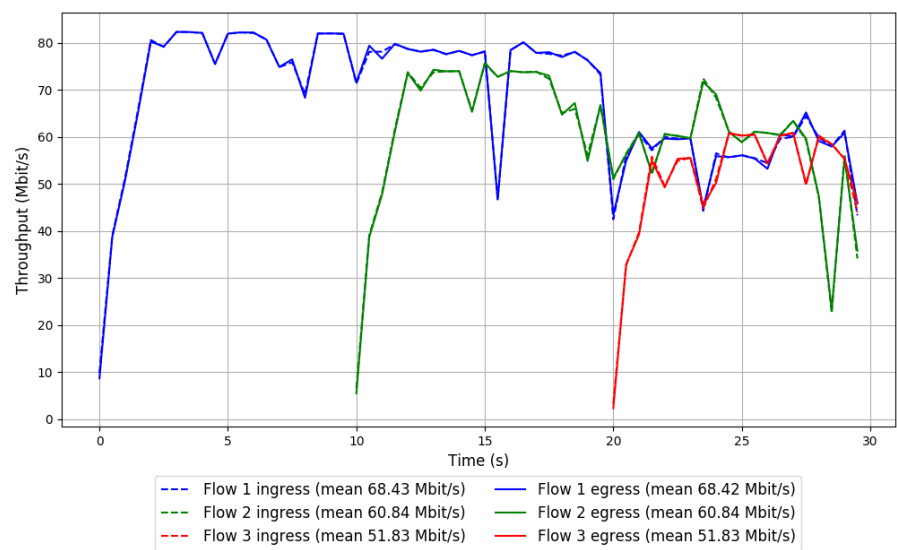
-- Flow 3:

Average throughput: 51.83 Mbit/s

95th percentile per-packet one-way delay: 18.211 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-03 23:18:57

End at: 2018-04-03 23:19:27

Local clock offset: 1.403 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.20 Mbit/s

95th percentile per-packet one-way delay: 18.717 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 65.58 Mbit/s

95th percentile per-packet one-way delay: 17.393 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.92 Mbit/s

95th percentile per-packet one-way delay: 17.387 ms

Loss rate: 0.01%

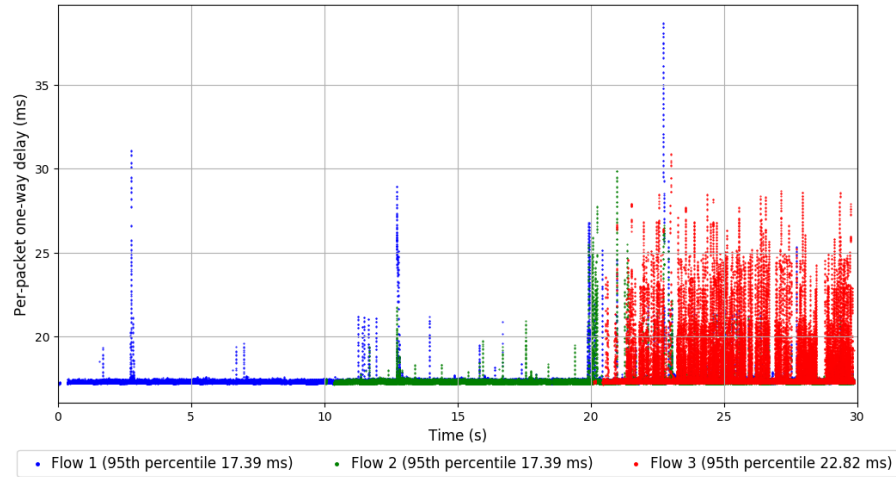
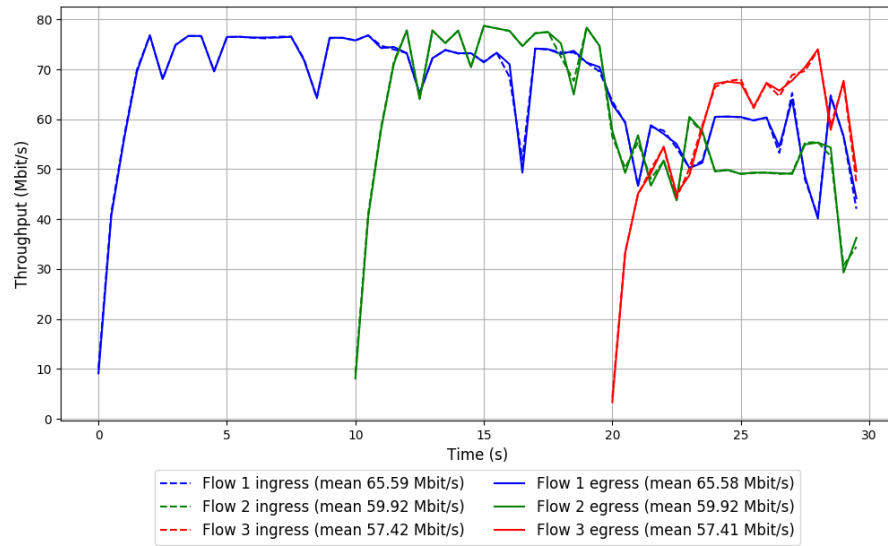
-- Flow 3:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 22.824 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-03 23:47:39

End at: 2018-04-03 23:48:09

Local clock offset: 0.787 ms

Remote clock offset: 0.522 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.23 Mbit/s

95th percentile per-packet one-way delay: 18.691 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 17.525 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 20.575 ms

Loss rate: 0.00%

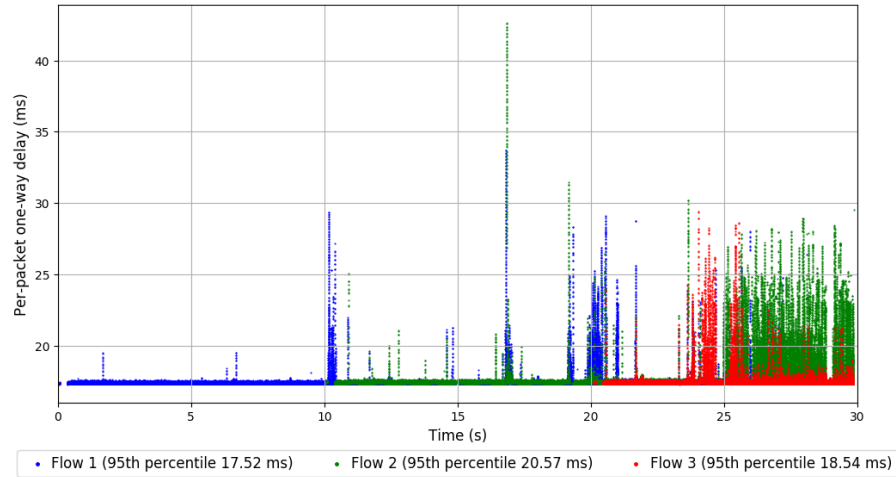
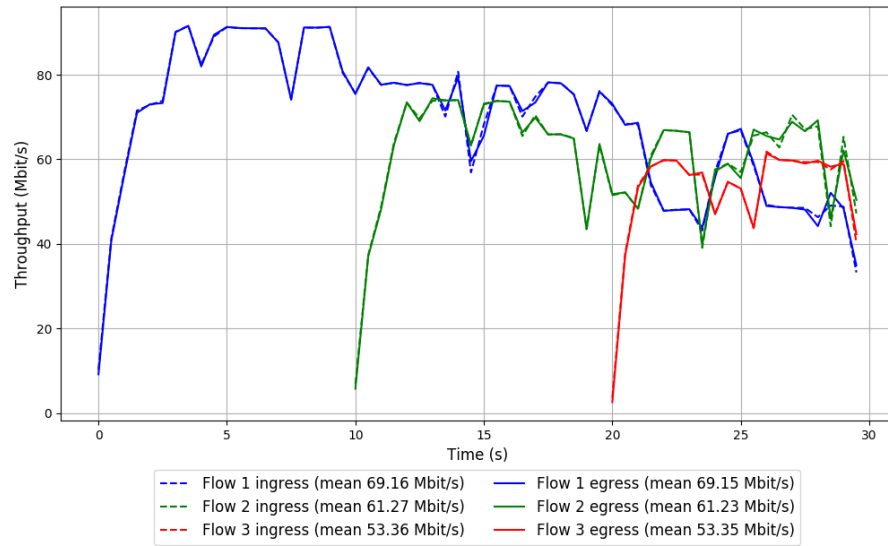
-- Flow 3:

Average throughput: 53.35 Mbit/s

95th percentile per-packet one-way delay: 18.541 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

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

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

Local clock offset: 0.489 ms

Remote clock offset: 0.447 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.96 Mbit/s

95th percentile per-packet one-way delay: 17.477 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 17.412 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 17.424 ms

Loss rate: 0.00%

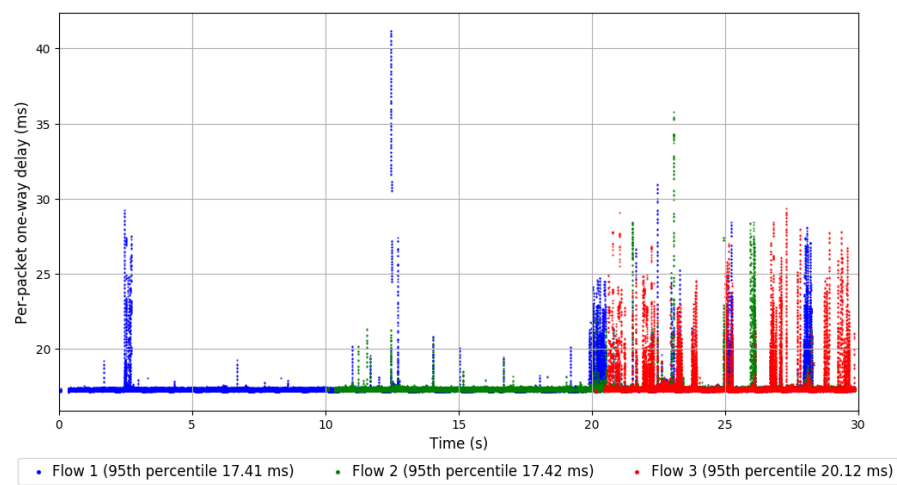
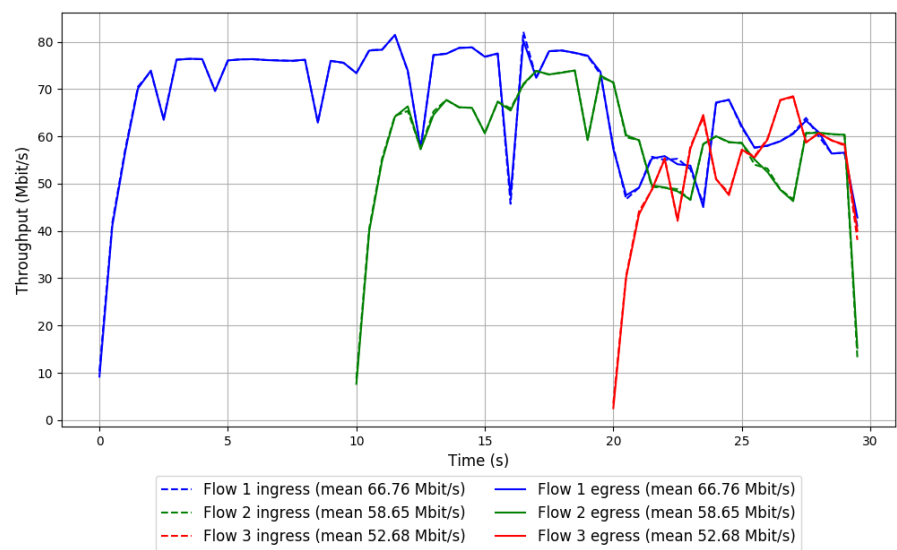
-- Flow 3:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 20.118 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-04 00:45:14

End at: 2018-04-04 00:45:44

Local clock offset: 0.248 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.12 Mbit/s

95th percentile per-packet one-way delay: 17.370 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 64.94 Mbit/s

95th percentile per-packet one-way delay: 17.350 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 62.63 Mbit/s

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

Loss rate: 0.01%

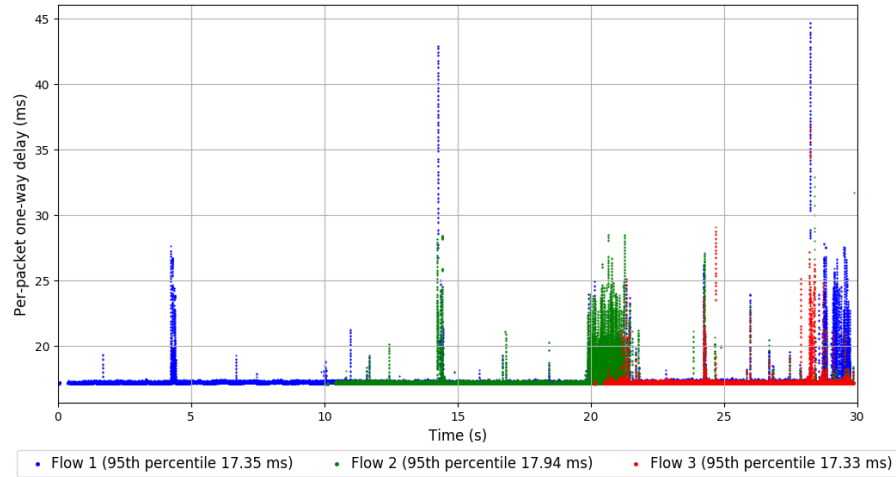
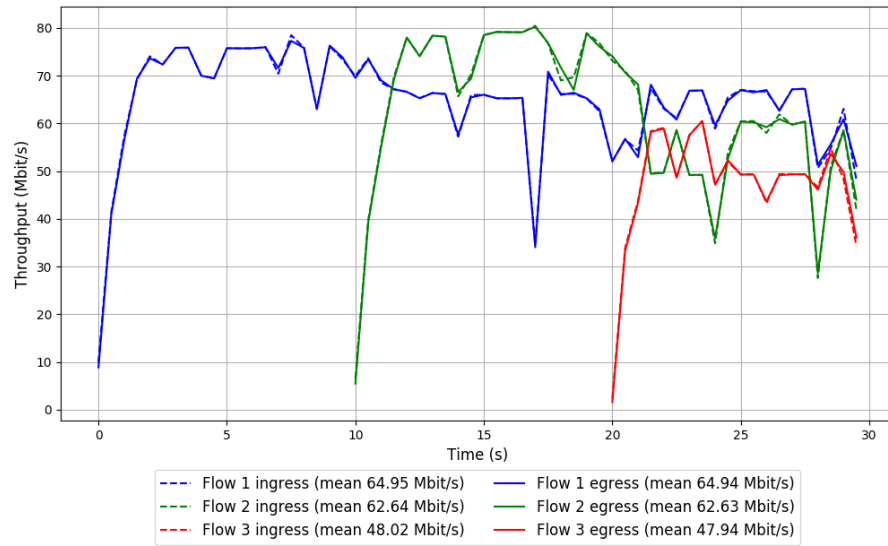
-- Flow 3:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 17.332 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

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

End at: 2018-04-04 01:14:34

Local clock offset: -0.117 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.45 Mbit/s

95th percentile per-packet one-way delay: 18.715 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 66.68 Mbit/s

95th percentile per-packet one-way delay: 19.176 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 17.533 ms

Loss rate: 0.00%

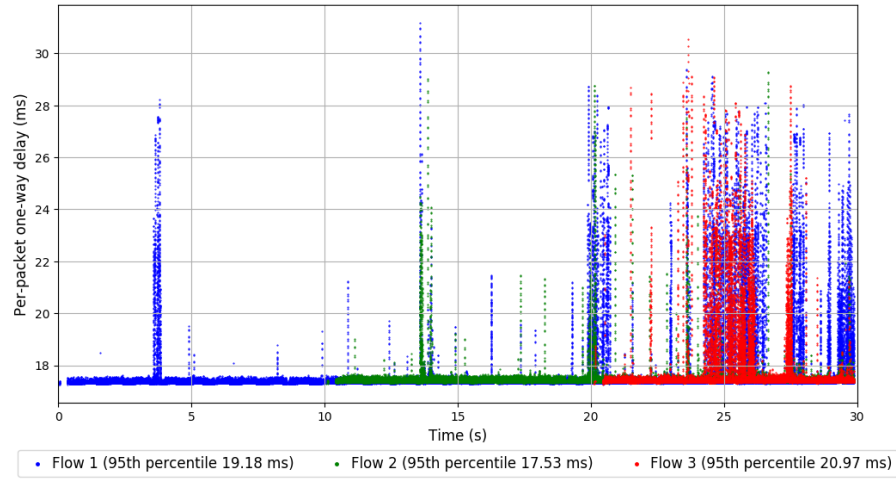
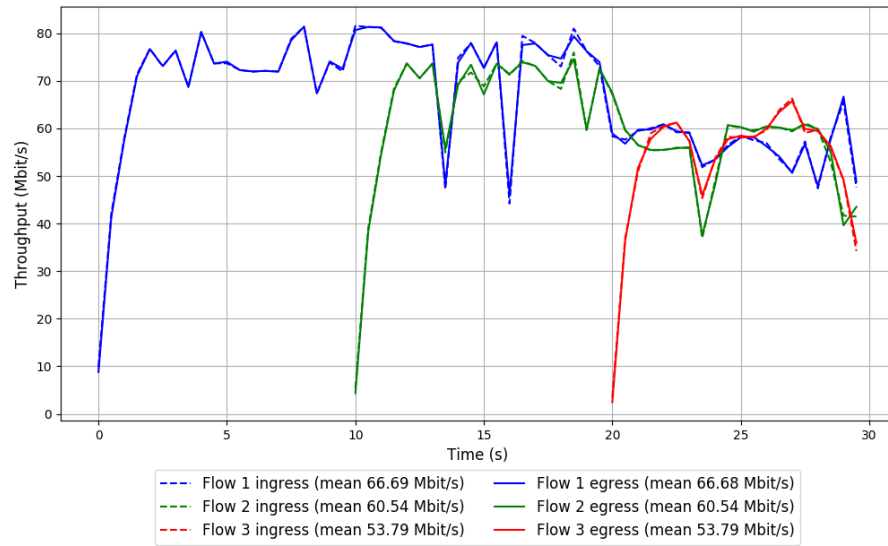
-- Flow 3:

Average throughput: 53.79 Mbit/s

95th percentile per-packet one-way delay: 20.970 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-04 01:42:56

End at: 2018-04-04 01:43:26

Local clock offset: 0.184 ms

Remote clock offset: 0.409 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.91 Mbit/s

95th percentile per-packet one-way delay: 18.467 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 18.771 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.85 Mbit/s

95th percentile per-packet one-way delay: 17.516 ms

Loss rate: 0.00%

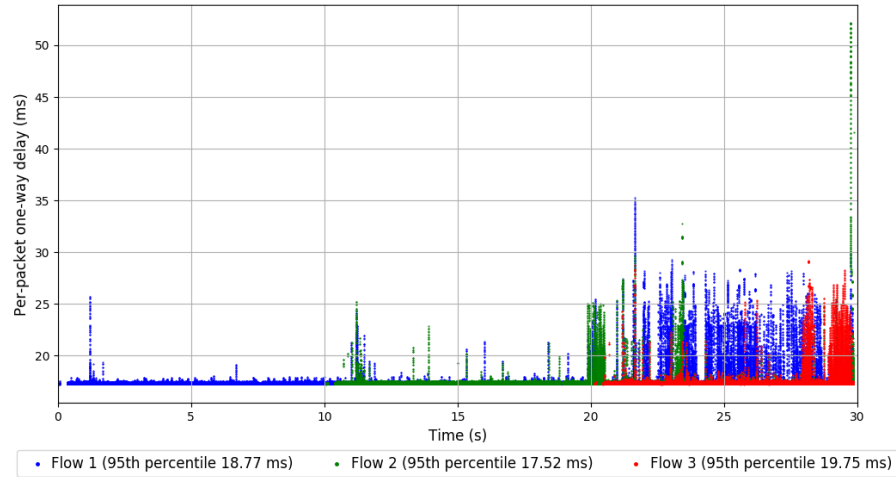
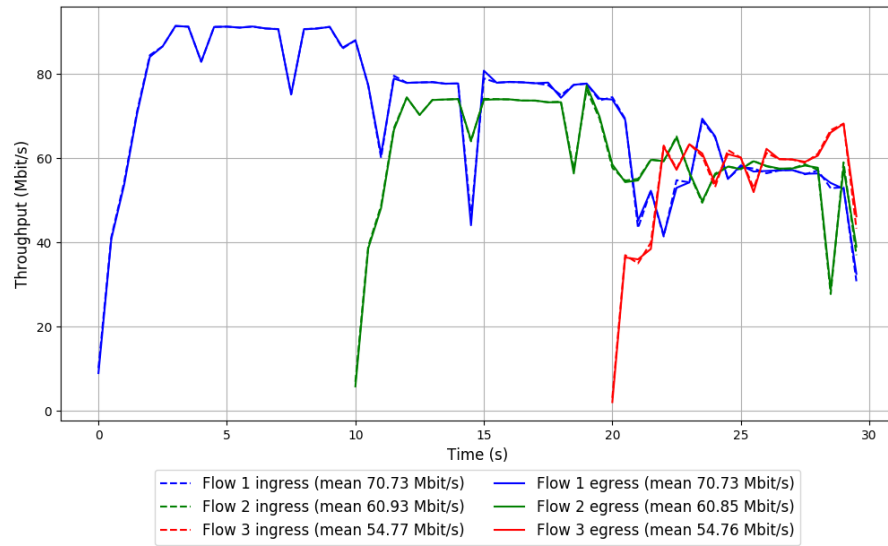
-- Flow 3:

Average throughput: 54.76 Mbit/s

95th percentile per-packet one-way delay: 19.750 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-04 02:11:53

End at: 2018-04-04 02:12:23

Local clock offset: 0.279 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.51 Mbit/s

95th percentile per-packet one-way delay: 19.817 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.12 Mbit/s

95th percentile per-packet one-way delay: 20.037 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 19.918 ms

Loss rate: 0.00%

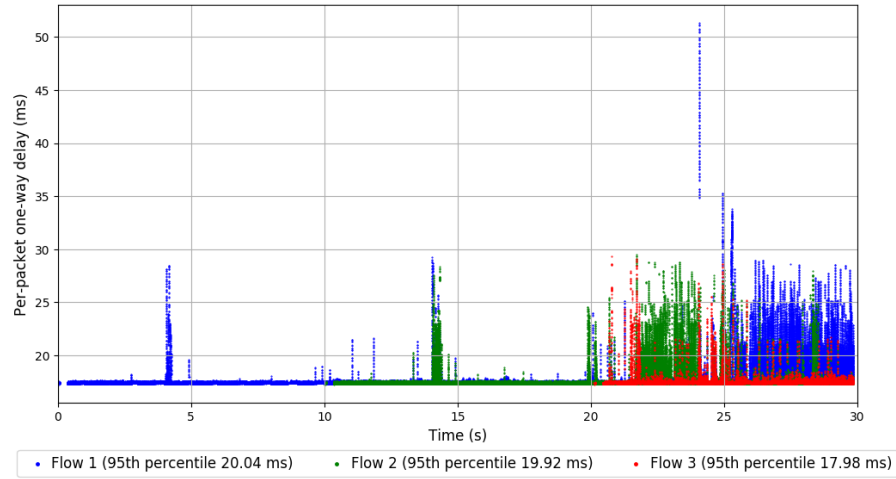
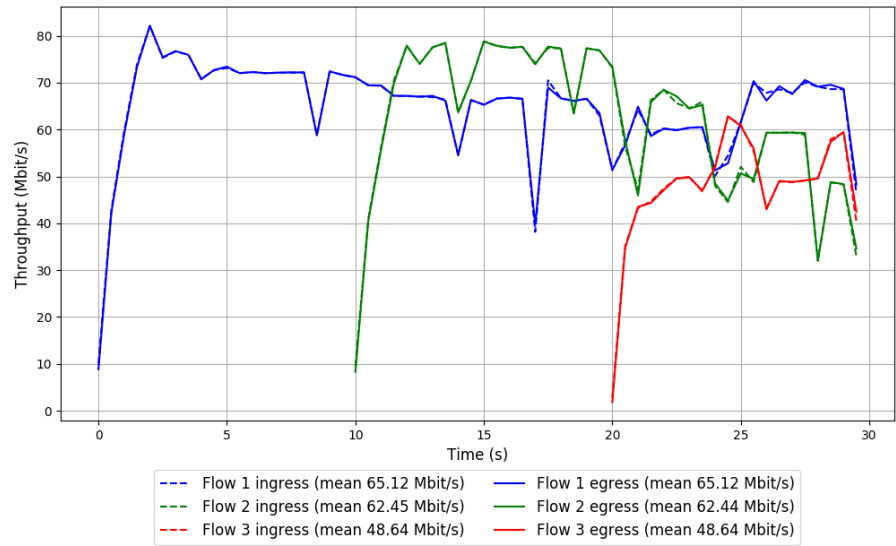
-- Flow 3:

Average throughput: 48.64 Mbit/s

95th percentile per-packet one-way delay: 17.975 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

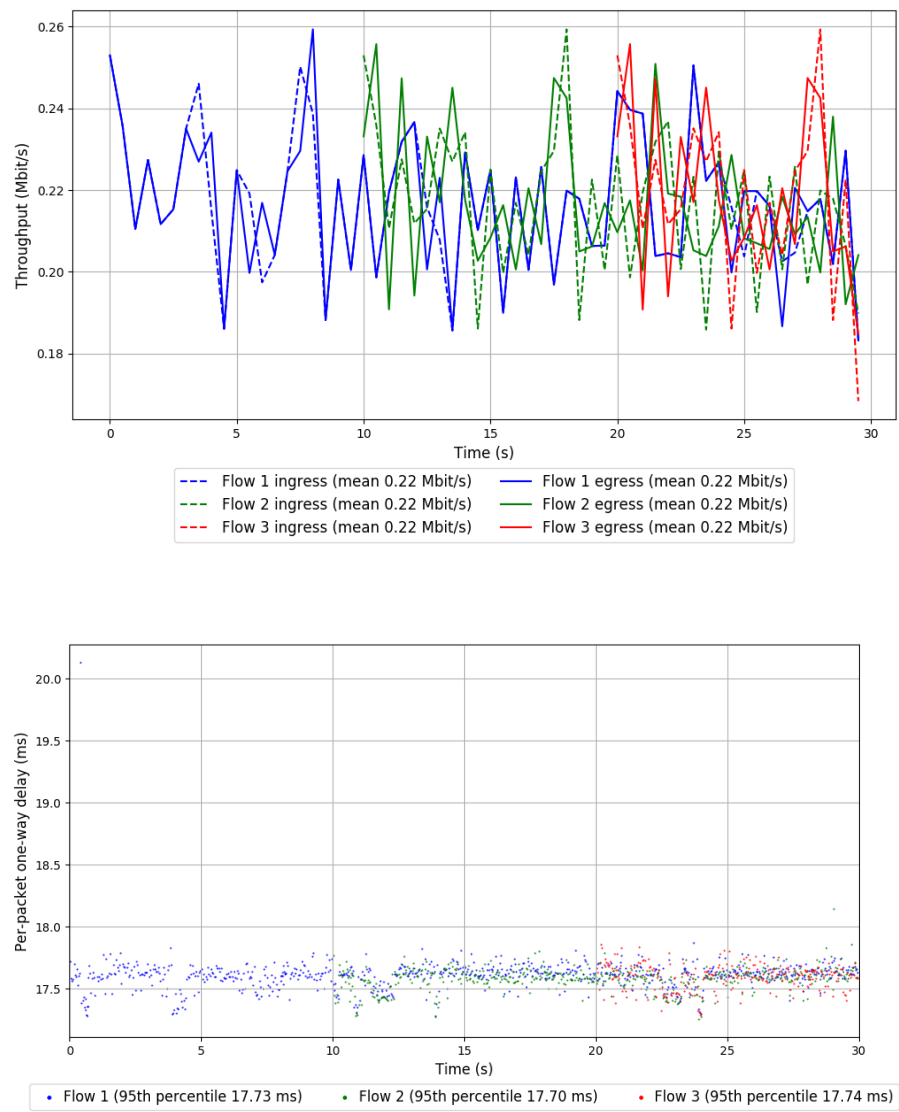


```
Run 1: Statistics of SReAM

Start at: 2018-04-03 21:55:37
End at: 2018-04-03 21:56:07
Local clock offset: 0.79 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2018-04-04 06:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 17.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.729 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.738 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

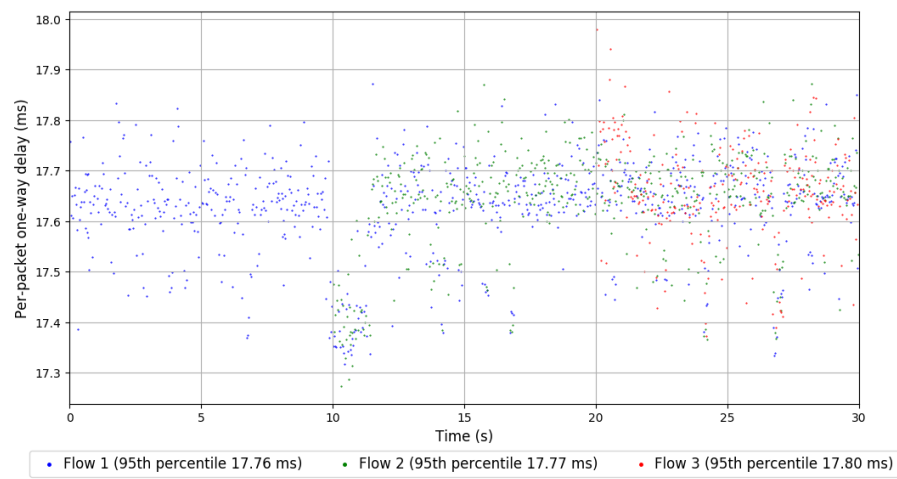
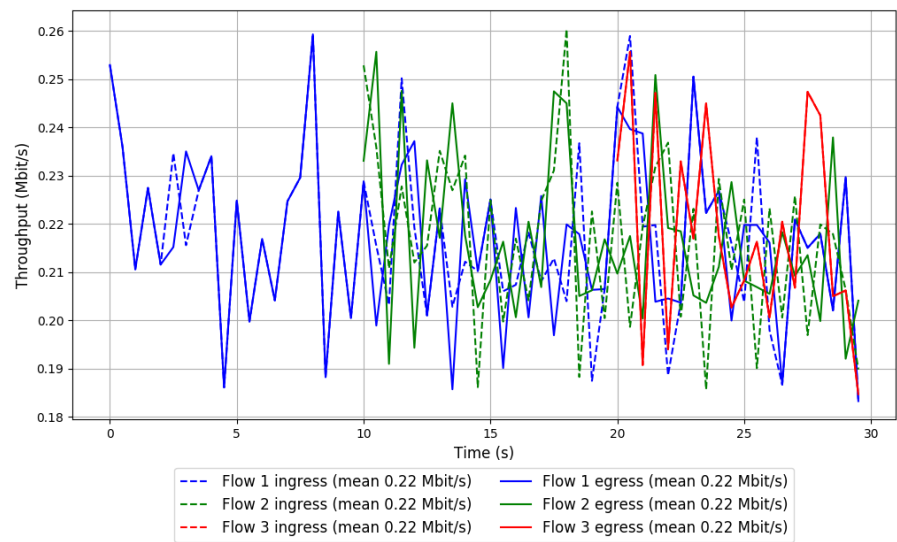


```
Run 2: Statistics of SReAM

Start at: 2018-04-03 22:24:24
End at: 2018-04-03 22:24:54
Local clock offset: 0.838 ms
Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2018-04-04 06:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 17.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.765 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.799 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

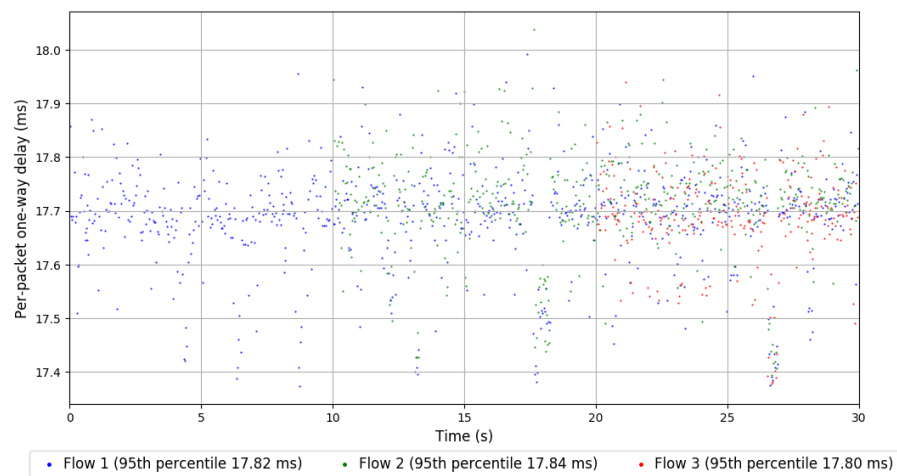
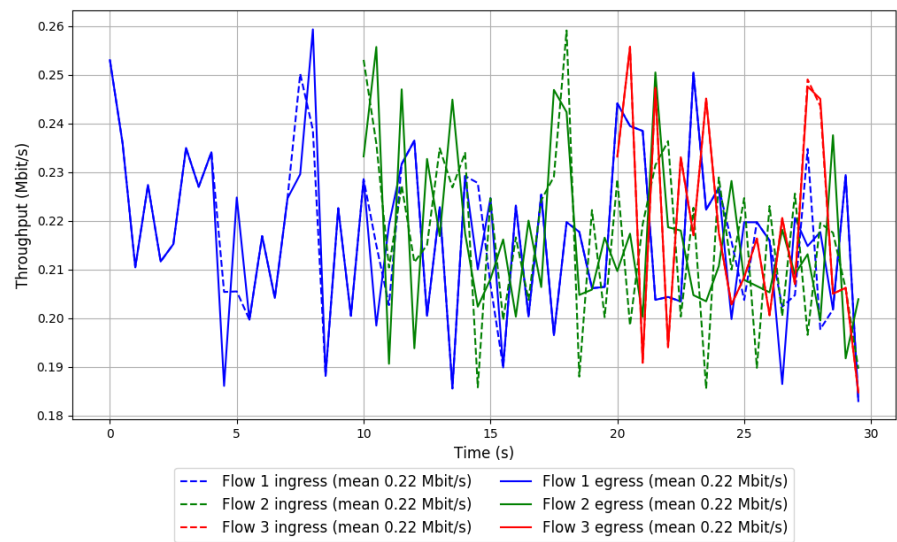


```
Run 3: Statistics of SReAM

Start at: 2018-04-03 22:53:13
End at: 2018-04-03 22:53:43
Local clock offset: 1.43 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-04-04 06:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 17.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.819 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.842 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.804 ms
Loss rate: 0.00%
```


Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-04-03 23:21:40

End at: 2018-04-03 23:22:10

Local clock offset: 1.35 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 17.787 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.785 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

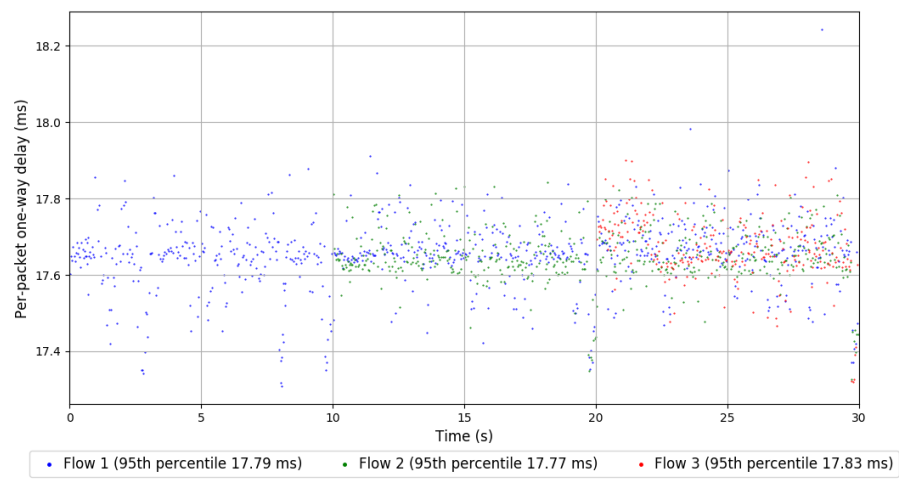
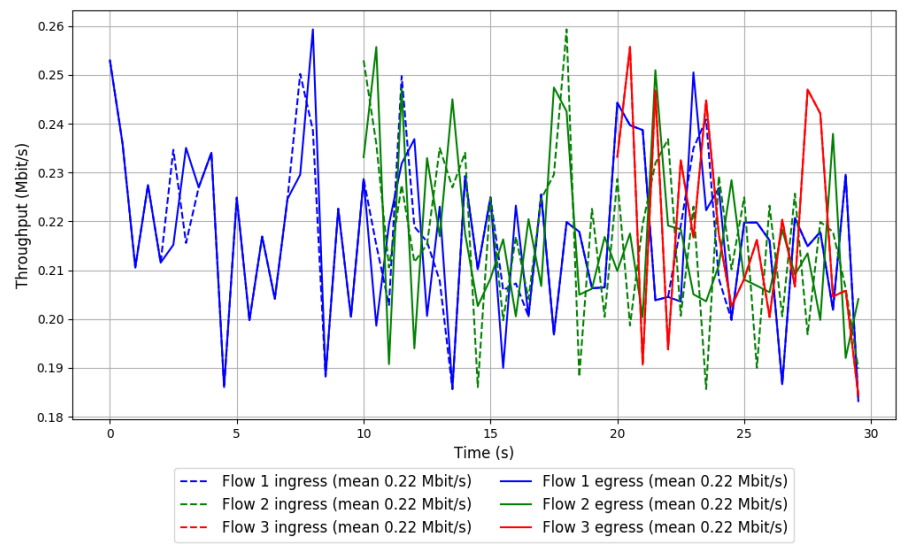
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.831 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-04-03 23:50:22

End at: 2018-04-03 23:50:52

Local clock offset: 0.847 ms

Remote clock offset: 0.51 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 17.673 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.665 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.673 ms

Loss rate: 0.00%

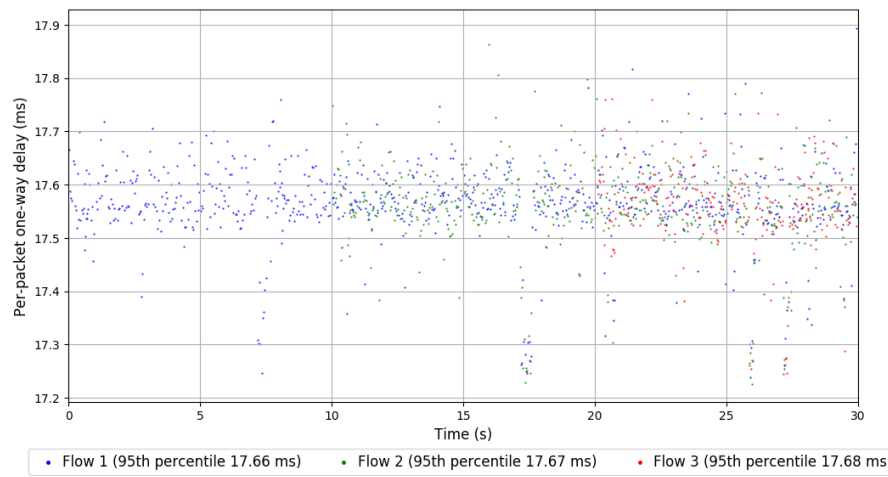
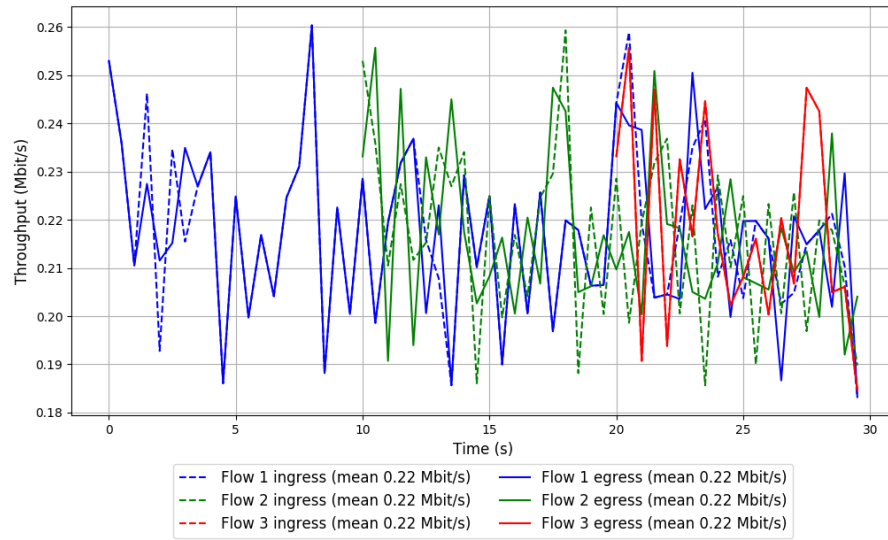
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.679 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-04-04 00:19:10

End at: 2018-04-04 00:19:40

Local clock offset: 0.427 ms

Remote clock offset: 0.435 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 17.641 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.645 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.617 ms

Loss rate: 0.00%

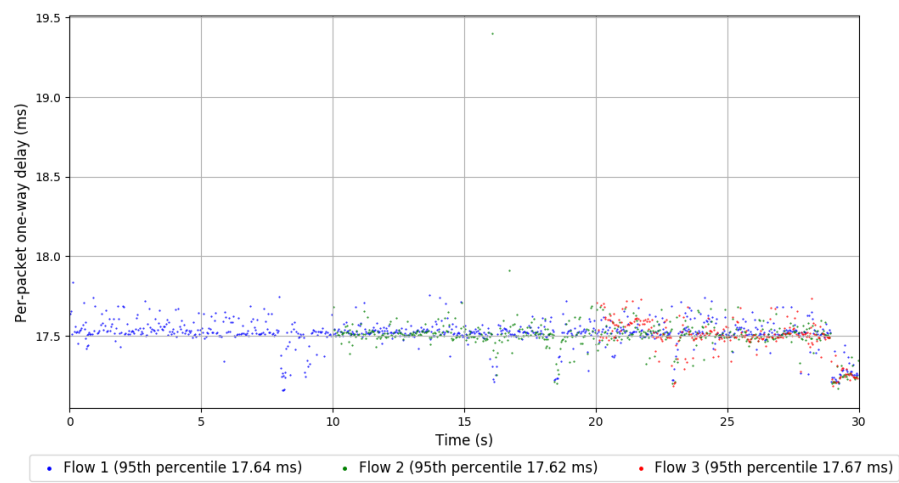
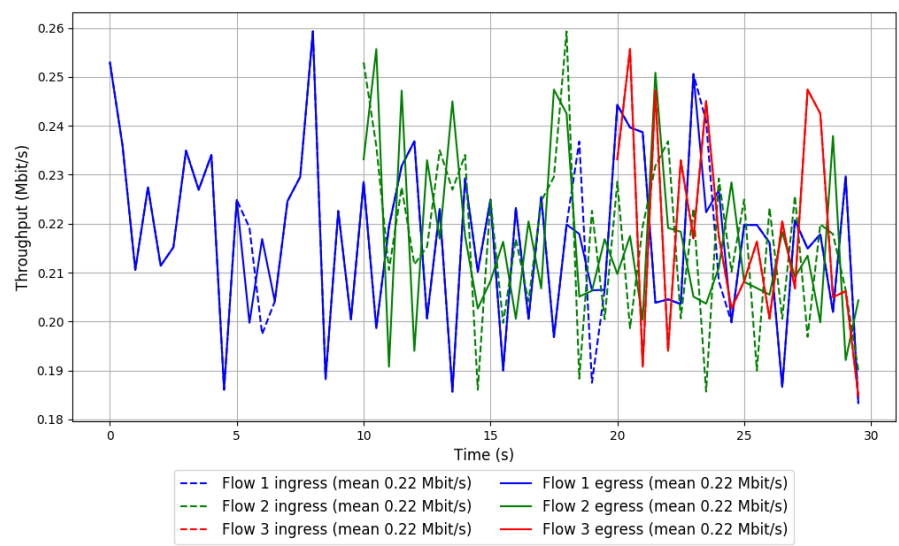
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.671 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-04-04 00:47:57

End at: 2018-04-04 00:48:27

Local clock offset: 0.099 ms

Remote clock offset: 0.508 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 17.814 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.813 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.817 ms

Loss rate: 0.00%

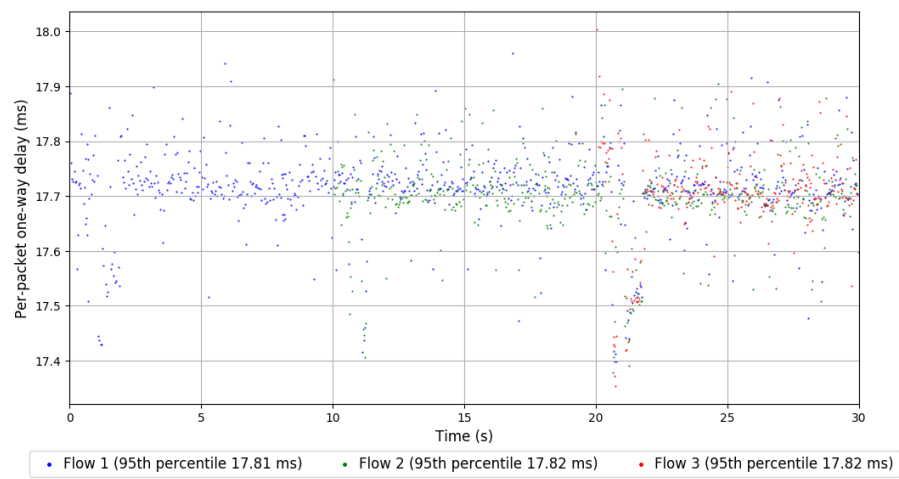
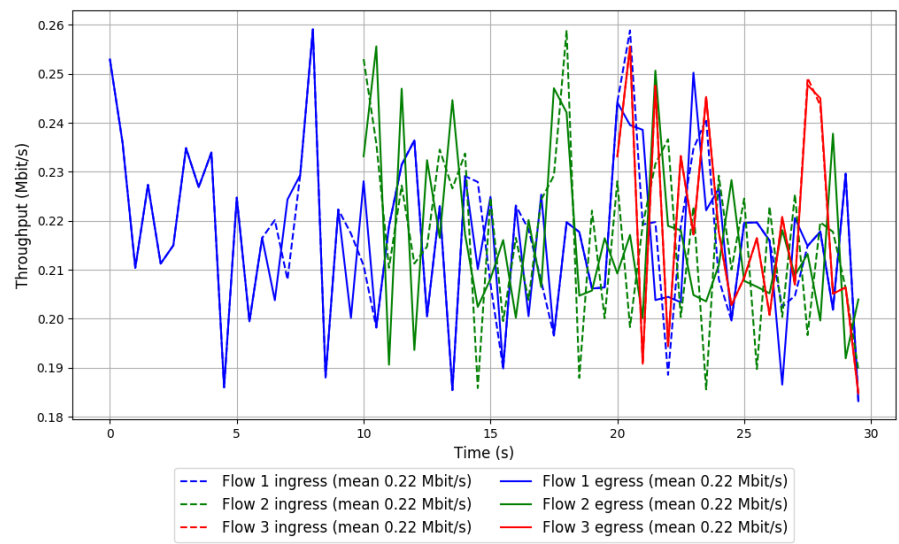
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.821 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-04-04 01:16:47

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

Local clock offset: 0.008 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 17.799 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.799 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.773 ms

Loss rate: 0.00%

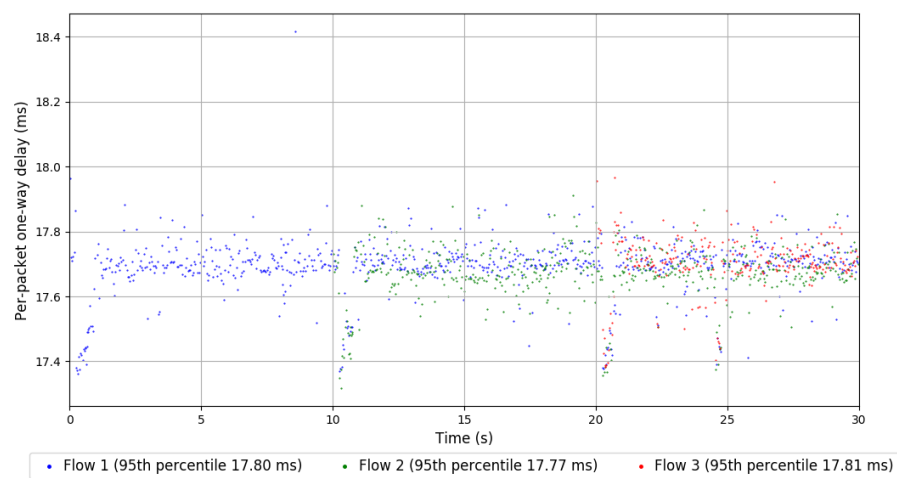
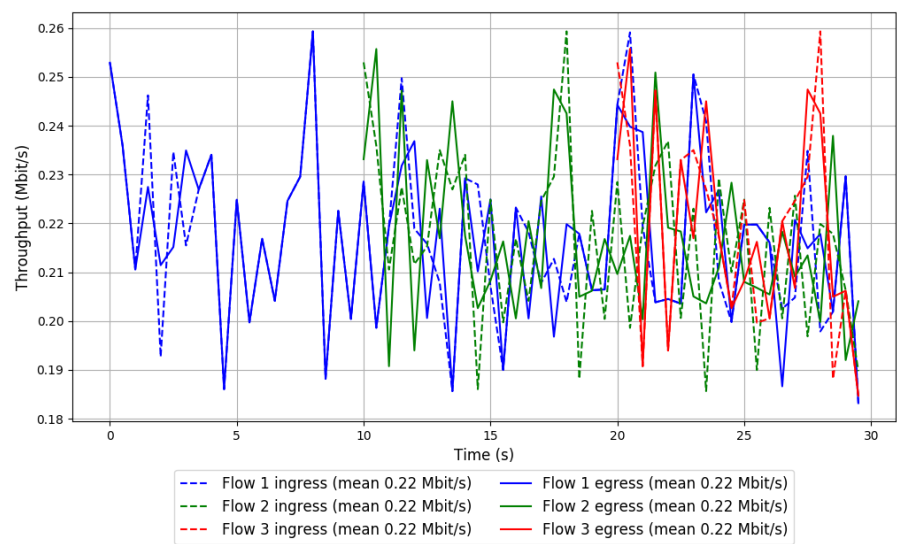
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.814 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-04 01:45:39

End at: 2018-04-04 01:46:09

Local clock offset: 0.161 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 17.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.617 ms

Loss rate: 0.00%

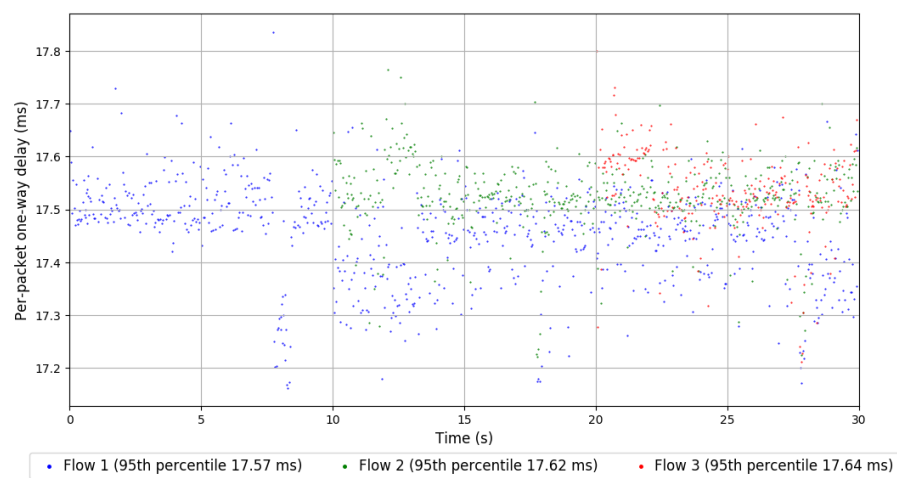
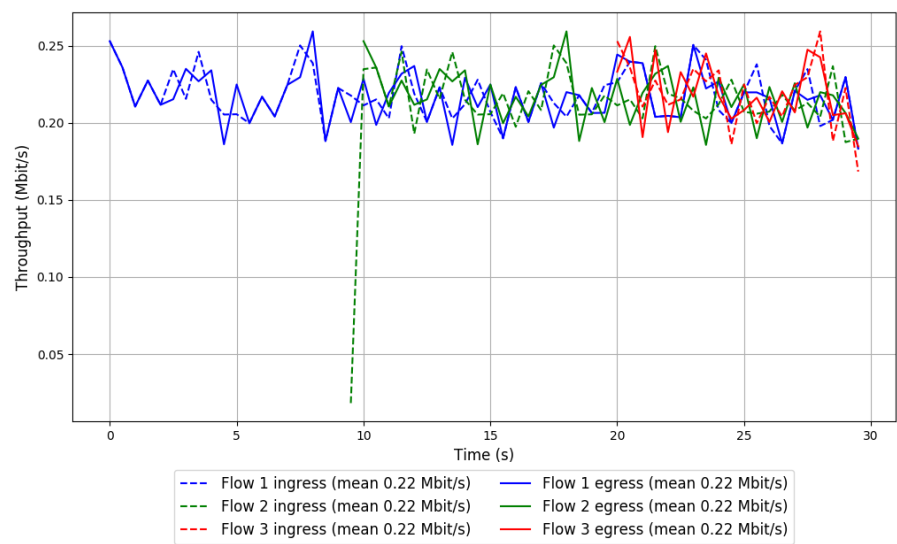
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.642 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-04 02:14:36

End at: 2018-04-04 02:15:06

Local clock offset: 0.436 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 17.664 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.671 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.640 ms

Loss rate: 0.00%

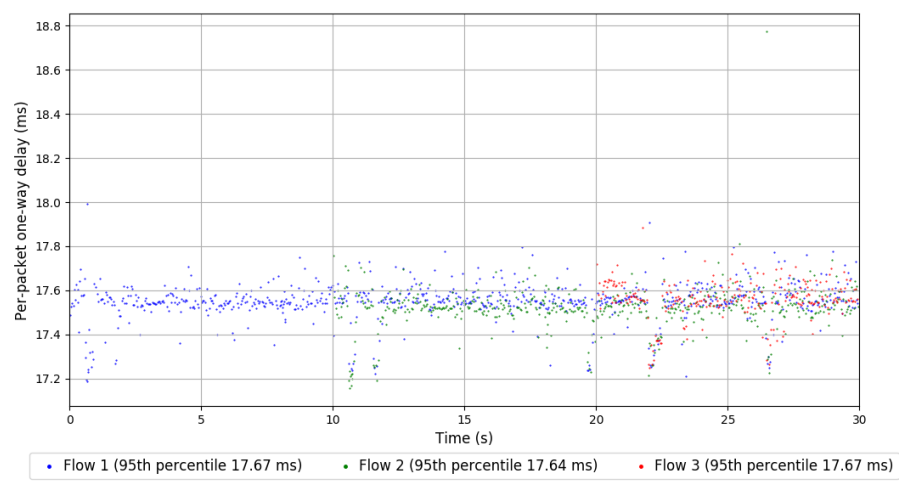
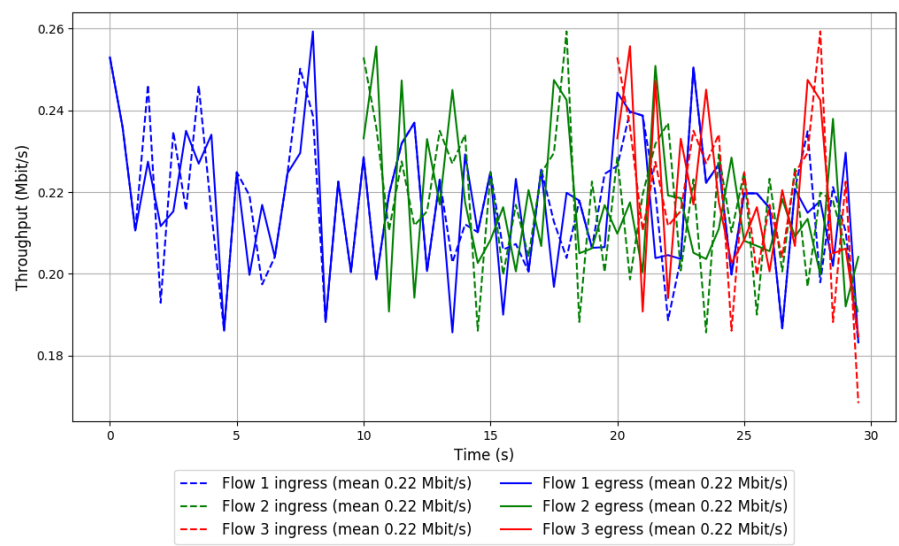
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.674 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

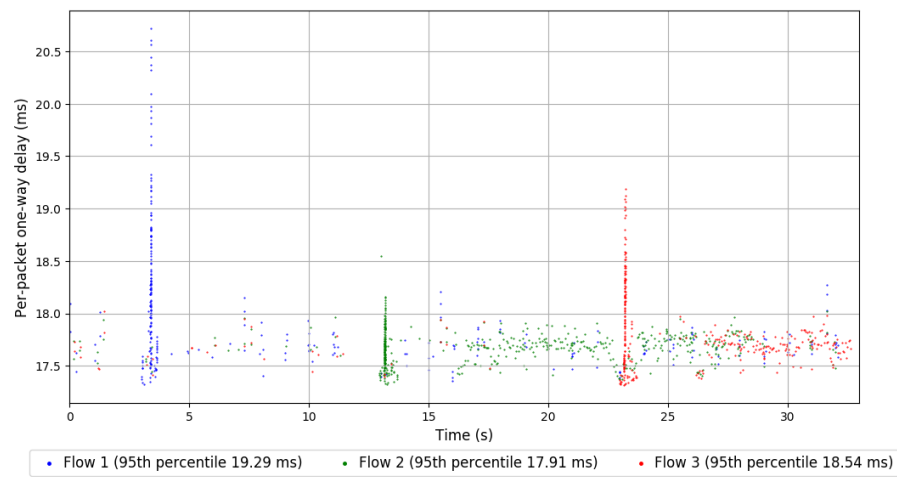
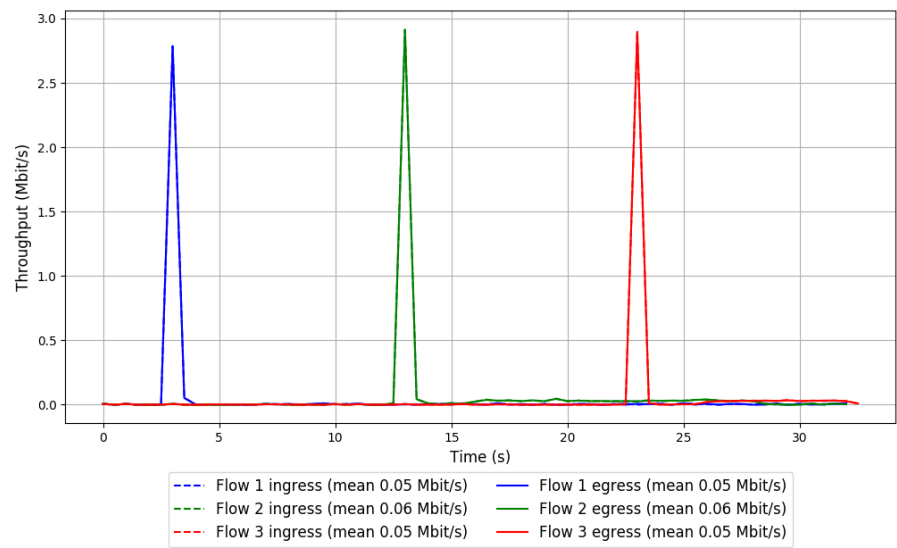


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-03 21:51:37
End at: 2018-04-03 21:52:07
Local clock offset: 0.794 ms
Remote clock offset: 0.494 ms

# Below is generated by plot.py at 2018-04-04 06:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 18.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 19.290 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 17.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 18.538 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2018-04-03 22:20:52

Local clock offset: 0.782 ms

Remote clock offset: 0.172 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.754 ms

Loss rate: 0.00%

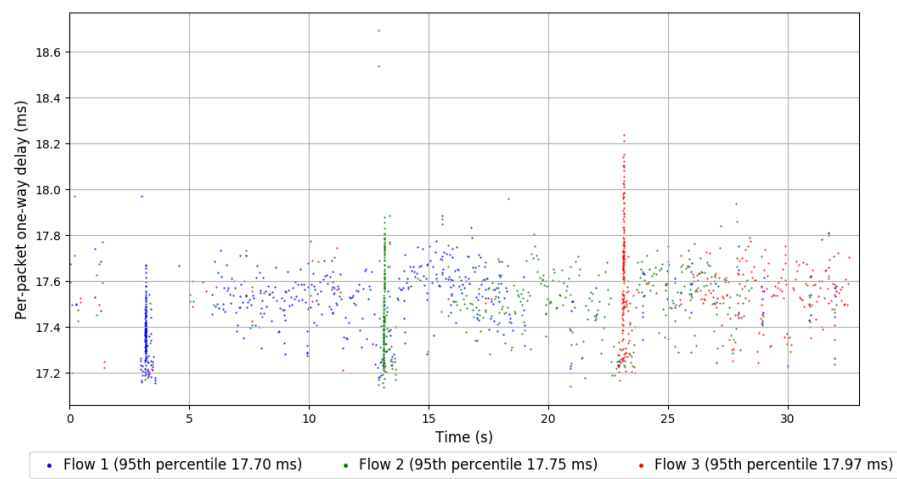
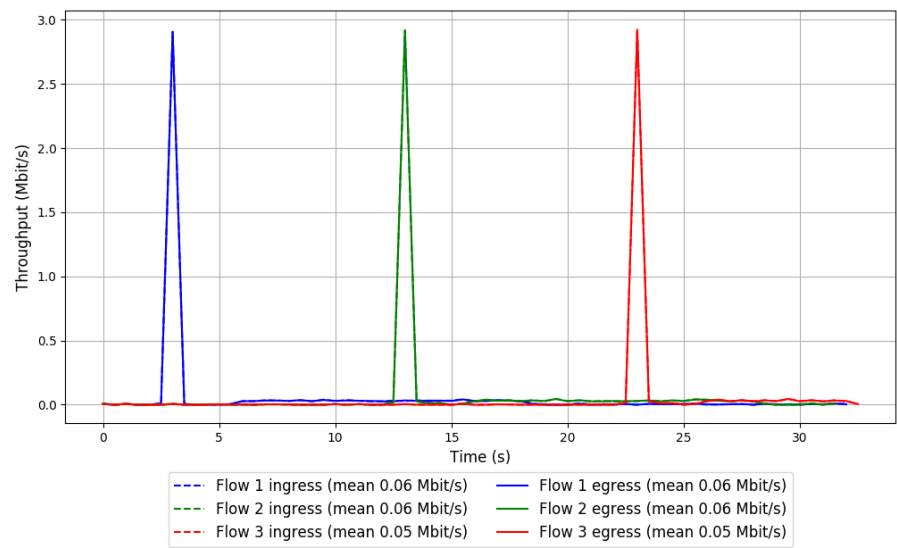
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.967 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-03 22:49:11

End at: 2018-04-03 22:49:41

Local clock offset: 1.325 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 18.496 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 19.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.842 ms

Loss rate: 0.00%

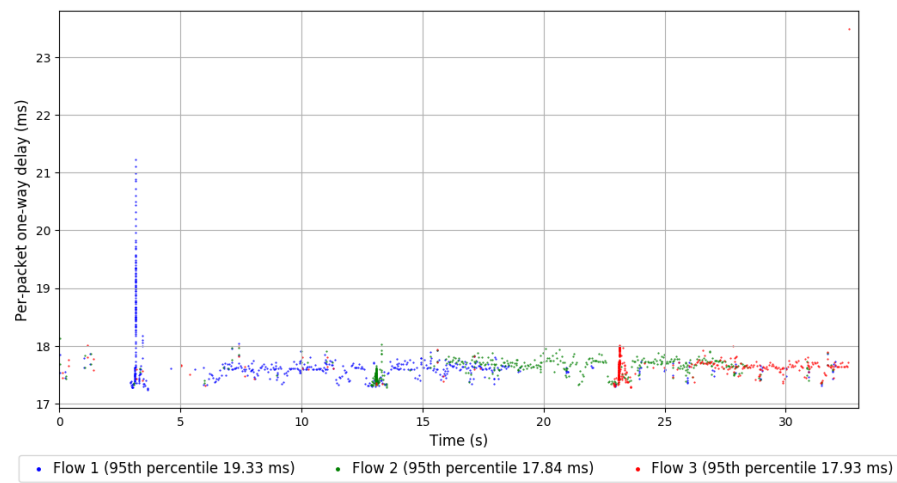
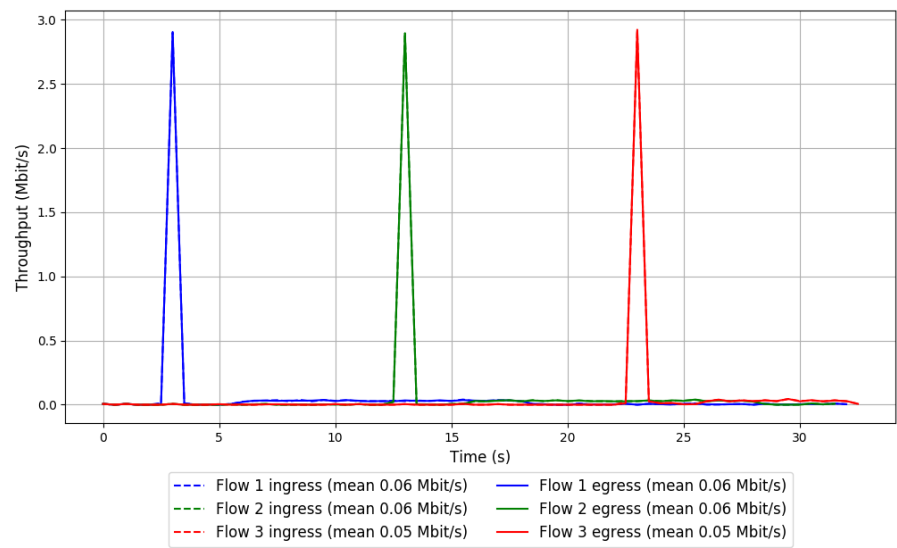
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.933 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-03 23:17:38

End at: 2018-04-03 23:18:08

Local clock offset: 1.387 ms

Remote clock offset: 0.373 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.693 ms

Loss rate: 0.00%

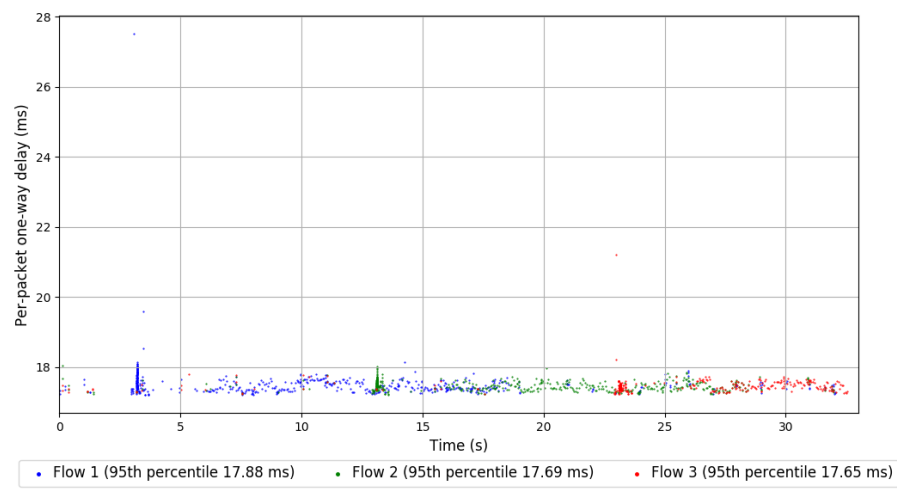
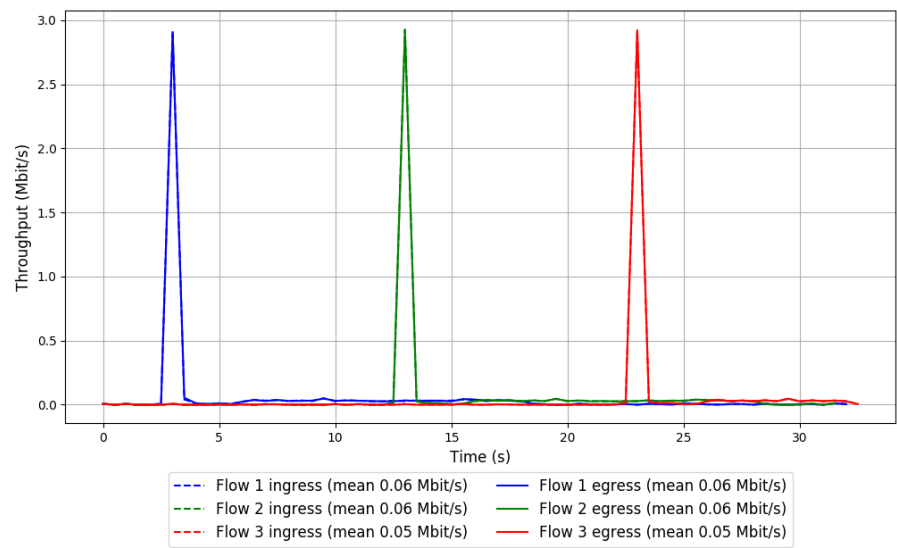
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.650 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-03 23:46:20

End at: 2018-04-03 23:46:50

Local clock offset: 0.899 ms

Remote clock offset: 0.516 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 17.845 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 18.120 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.864 ms

Loss rate: 0.00%

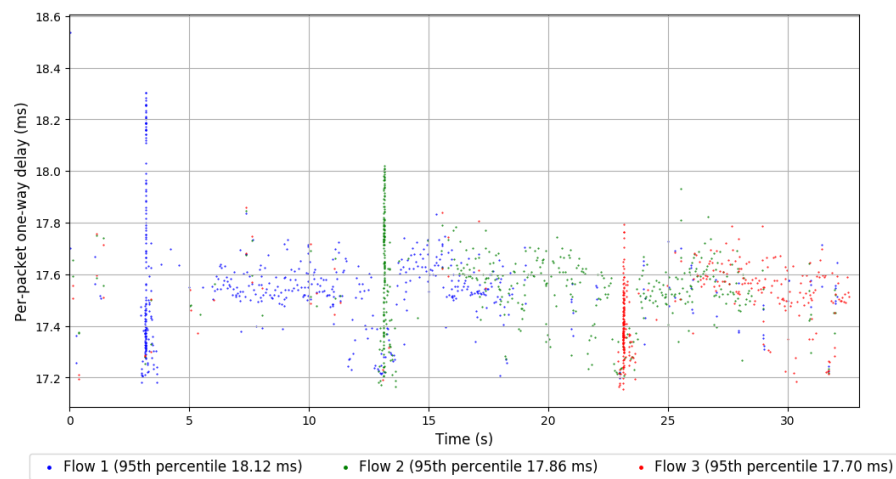
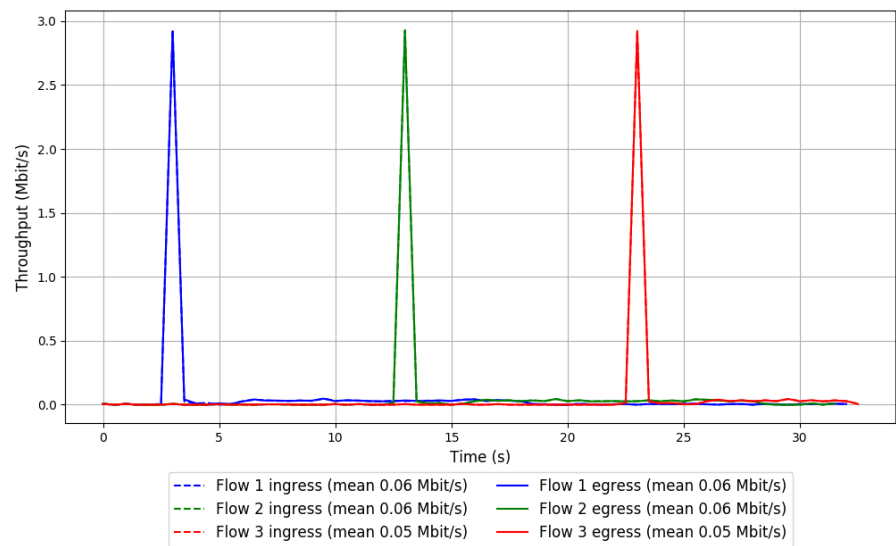
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.695 ms

Loss rate: 0.08%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-04 00:15:08

End at: 2018-04-04 00:15:38

Local clock offset: 0.497 ms

Remote clock offset: 0.51 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 17.875 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.840 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.853 ms

Loss rate: 0.00%

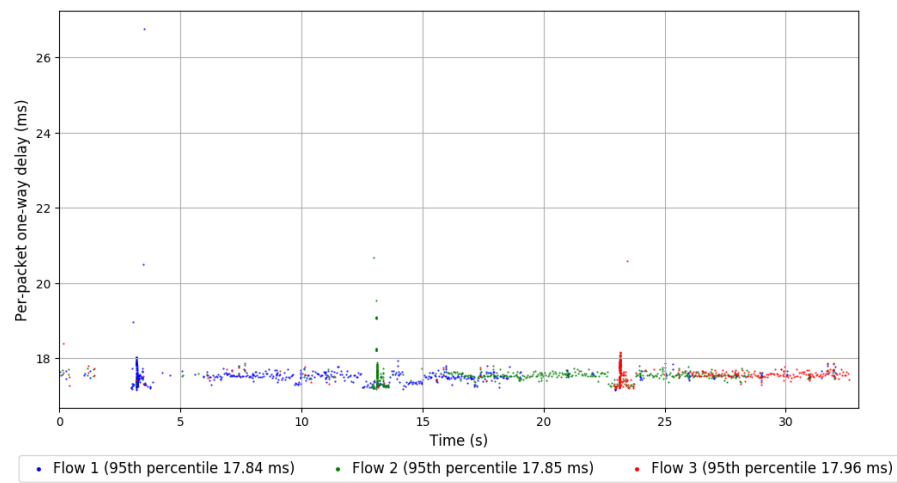
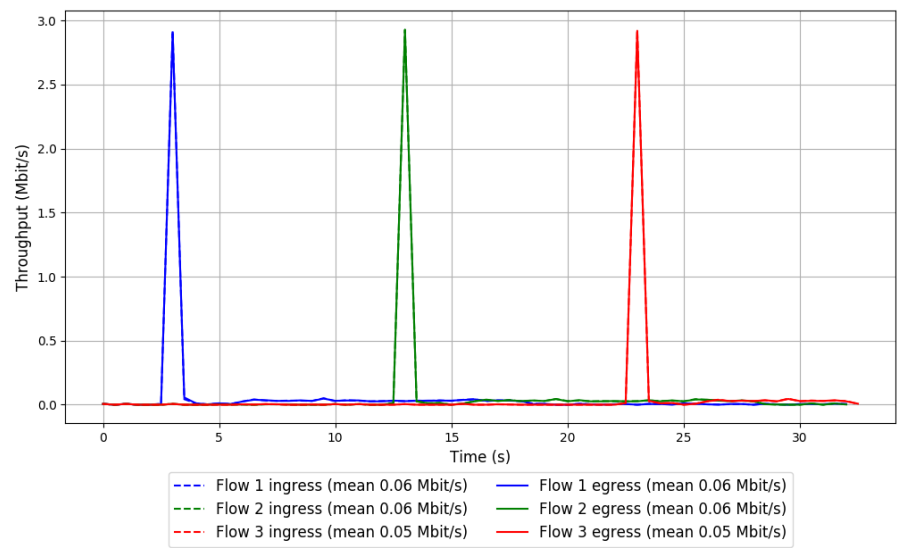
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.965 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-04 00:43:56

End at: 2018-04-04 00:44:26

Local clock offset: 0.108 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 17.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 18.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.861 ms

Loss rate: 0.00%

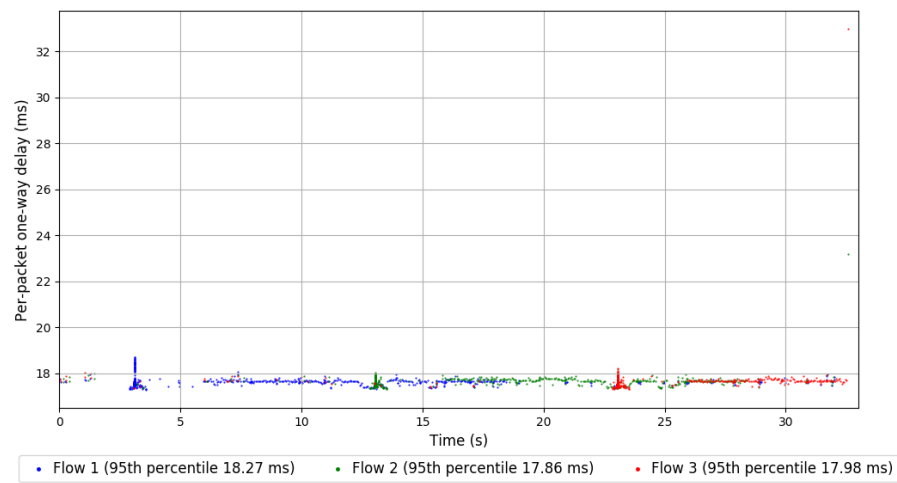
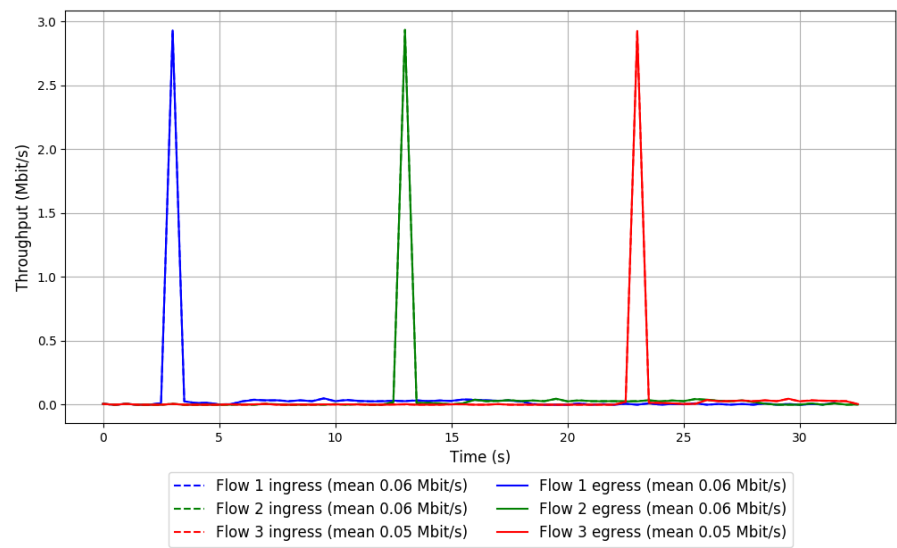
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.975 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-04 01:12:45

End at: 2018-04-04 01:13:15

Local clock offset: -0.168 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 18.132 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 19.135 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.753 ms

Loss rate: 0.00%

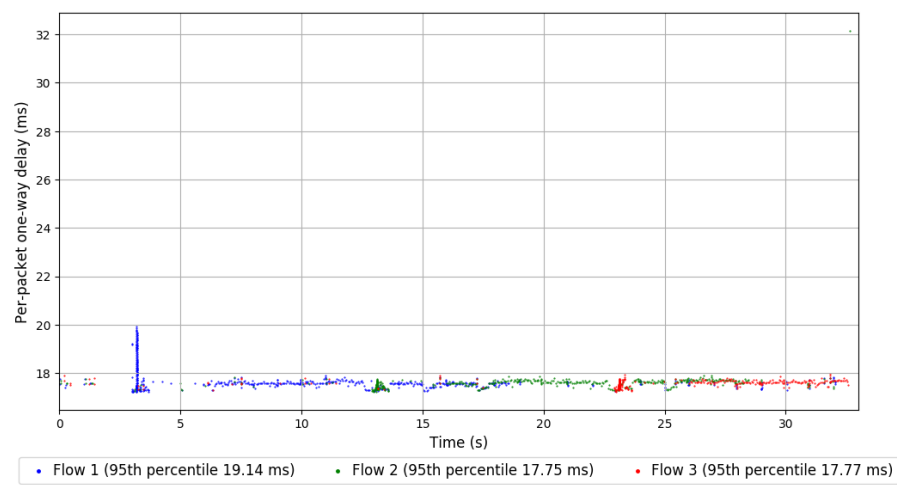
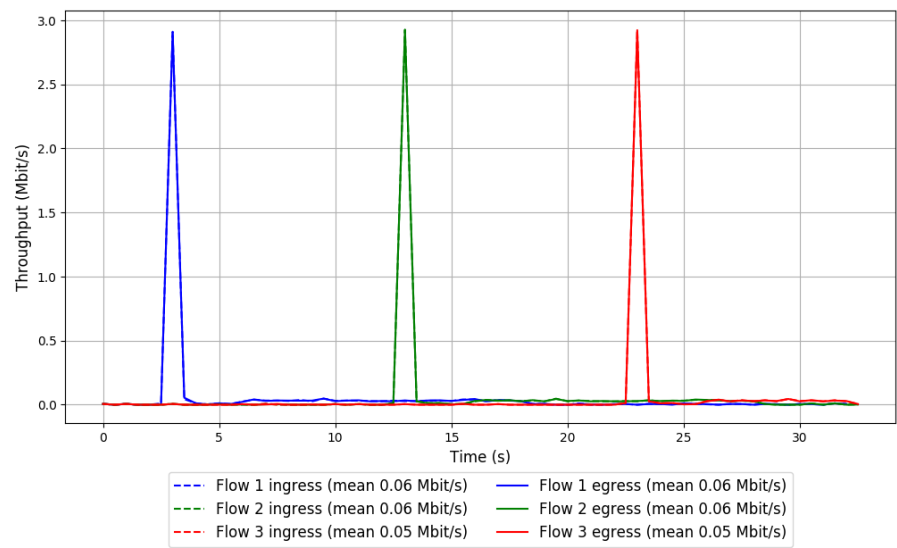
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.766 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-04 01:41:37

End at: 2018-04-04 01:42:07

Local clock offset: 0.094 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 17.811 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.721 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.776 ms

Loss rate: 0.00%

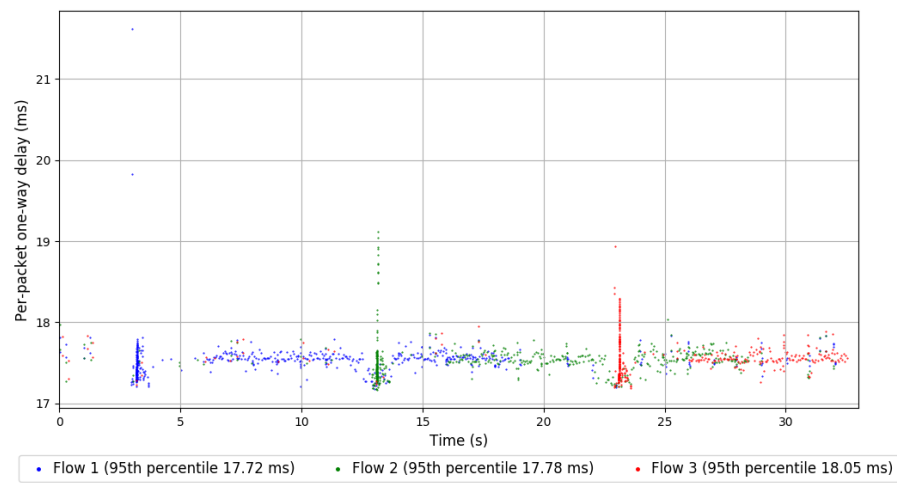
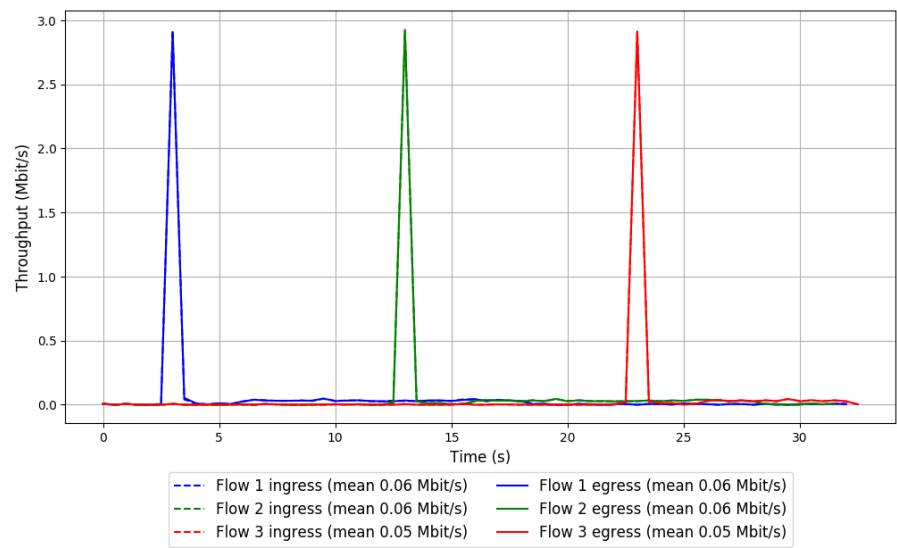
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.049 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-04 02:10:34

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

Local clock offset: 0.241 ms

Remote clock offset: 0.497 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 17.972 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 17.862 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 18.046 ms

Loss rate: 0.00%

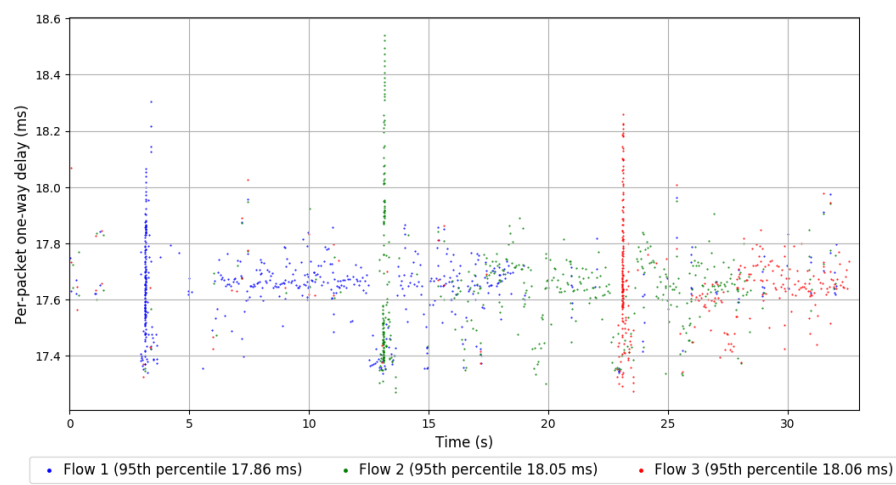
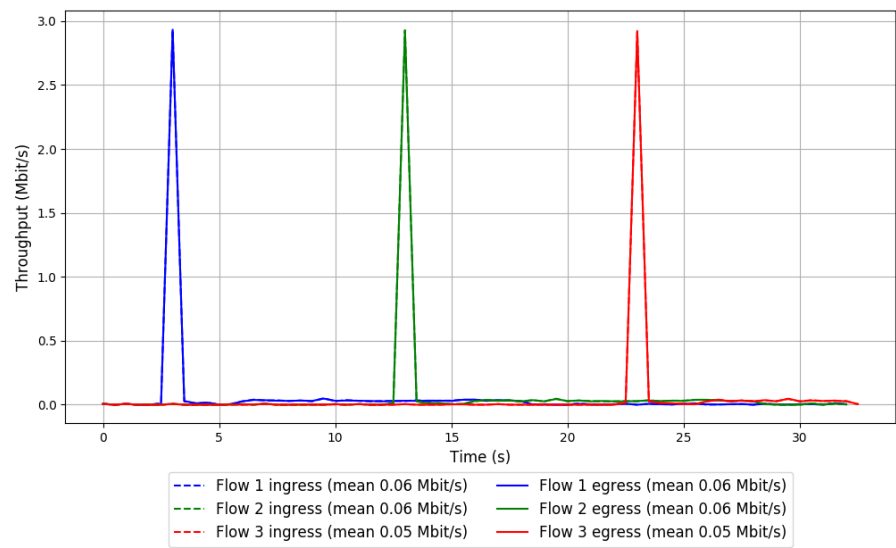
-- Flow 3:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-03 21:54:17

End at: 2018-04-03 21:54:47

Local clock offset: 0.778 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.51 Mbit/s

95th percentile per-packet one-way delay: 20.516 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 20.602 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 20.355 ms

Loss rate: 0.17%

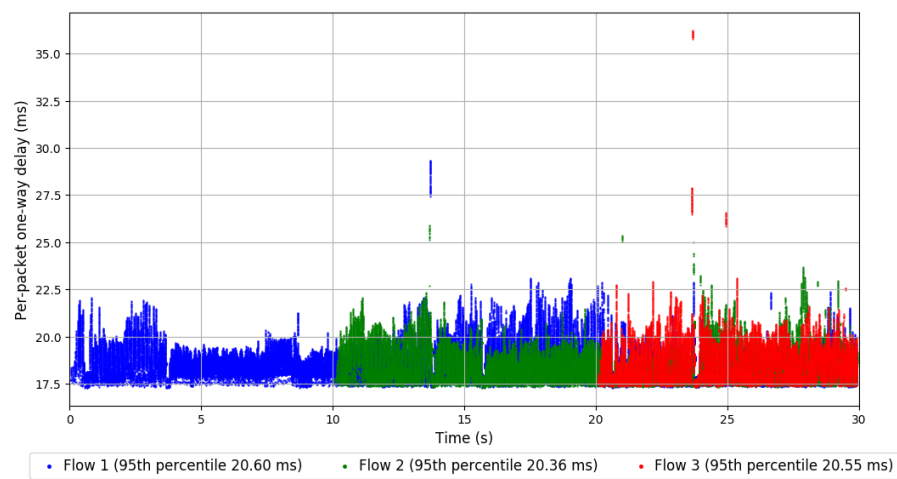
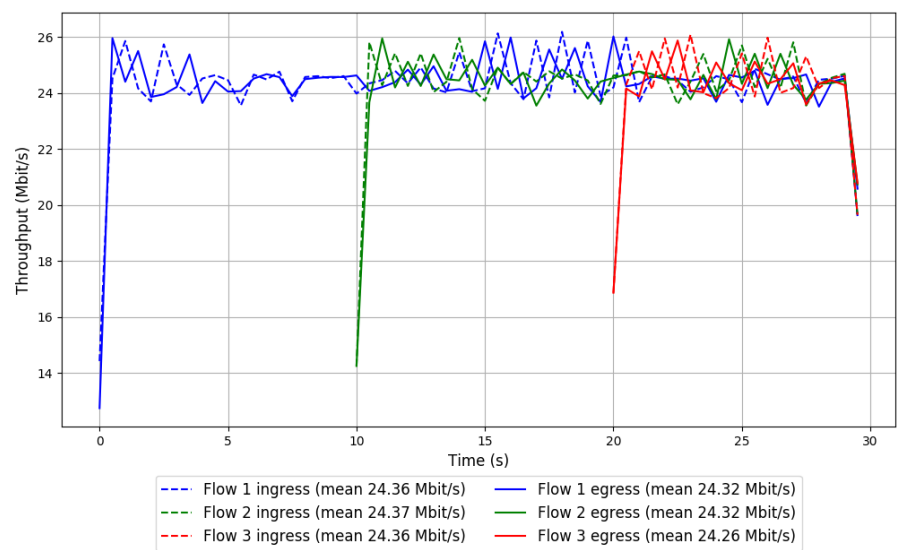
-- Flow 3:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 20.546 ms

Loss rate: 0.39%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-03 22:23:04

End at: 2018-04-03 22:23:34

Local clock offset: 0.874 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.92 Mbit/s

95th percentile per-packet one-way delay: 20.742 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 20.715 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.68 Mbit/s

95th percentile per-packet one-way delay: 20.627 ms

Loss rate: 0.11%

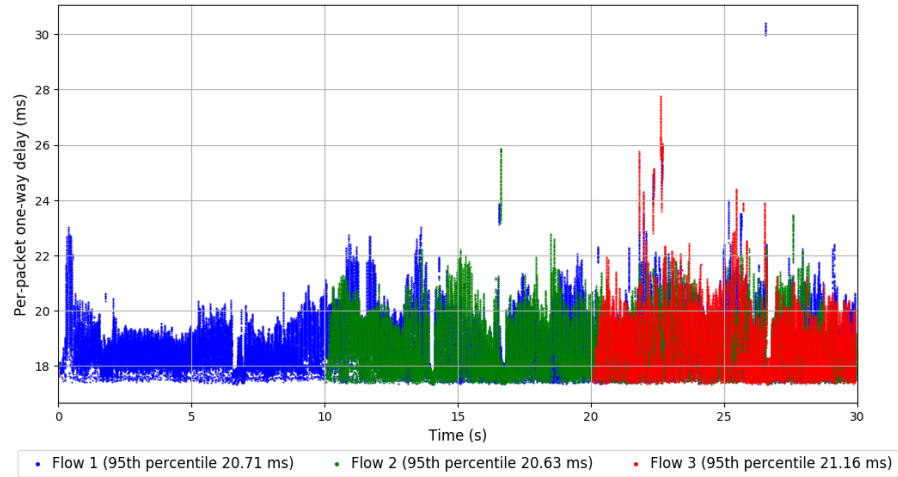
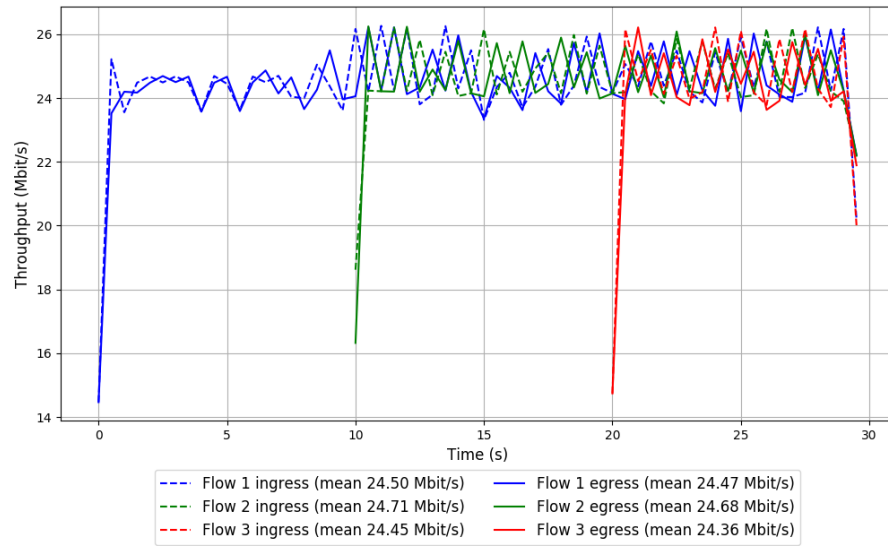
-- Flow 3:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 21.162 ms

Loss rate: 0.36%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-03 22:51:53

End at: 2018-04-03 22:52:23

Local clock offset: 1.48 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 21.101 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 24.52 Mbit/s

95th percentile per-packet one-way delay: 21.134 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 20.967 ms

Loss rate: 0.34%

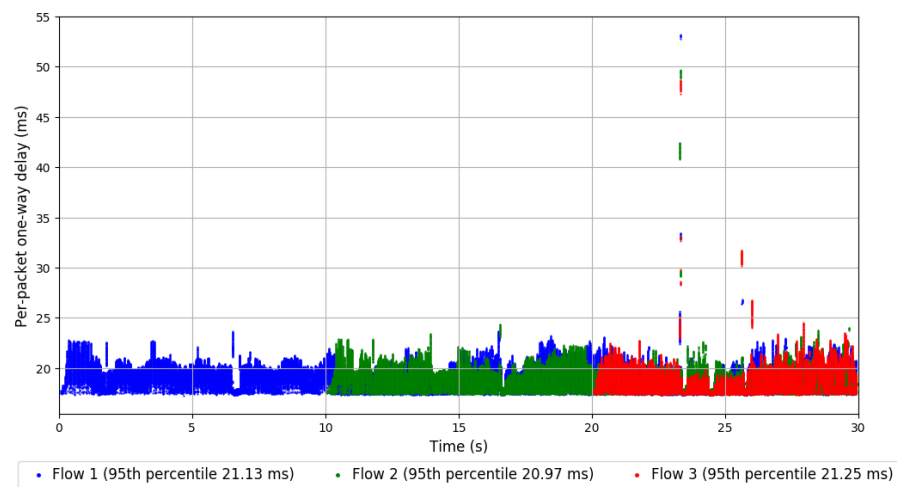
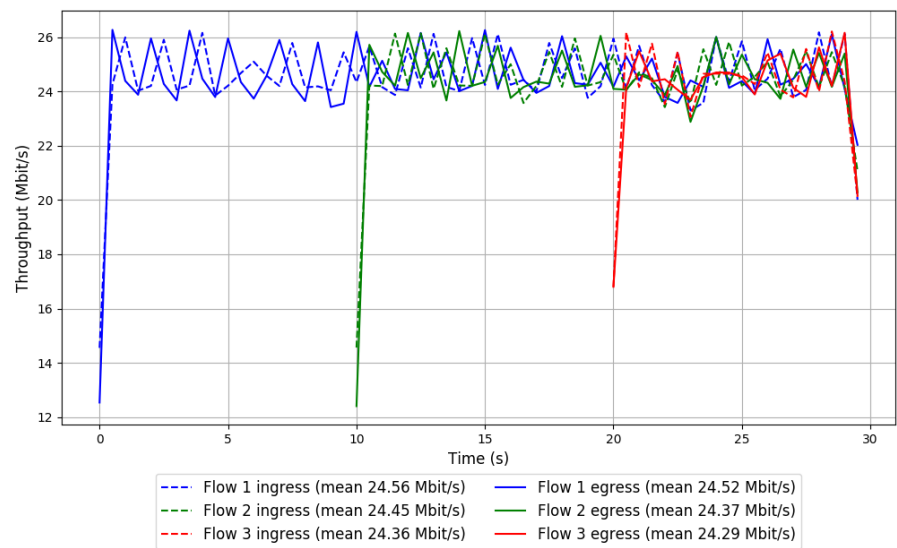
-- Flow 3:

Average throughput: 24.29 Mbit/s

95th percentile per-packet one-way delay: 21.245 ms

Loss rate: 0.28%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

End at: 2018-04-03 23:20:50

Local clock offset: 1.438 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.20 Mbit/s

95th percentile per-packet one-way delay: 20.260 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 20.088 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 20.628 ms

Loss rate: 0.17%

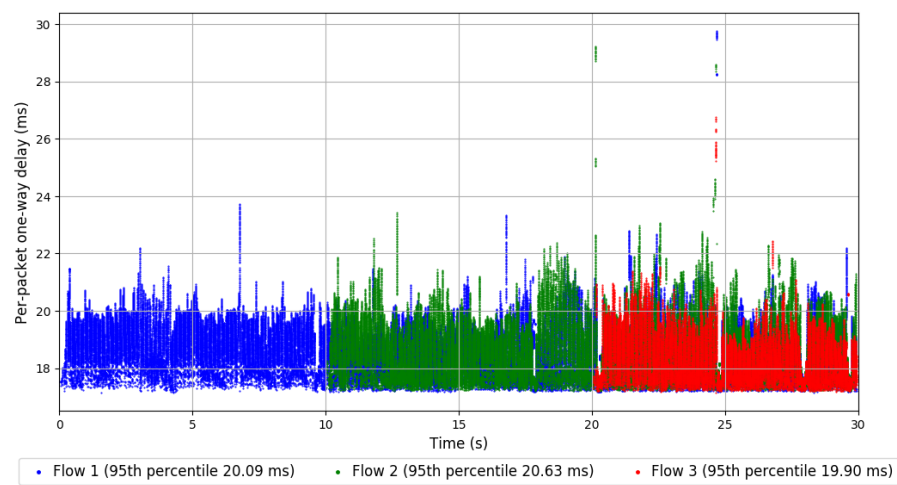
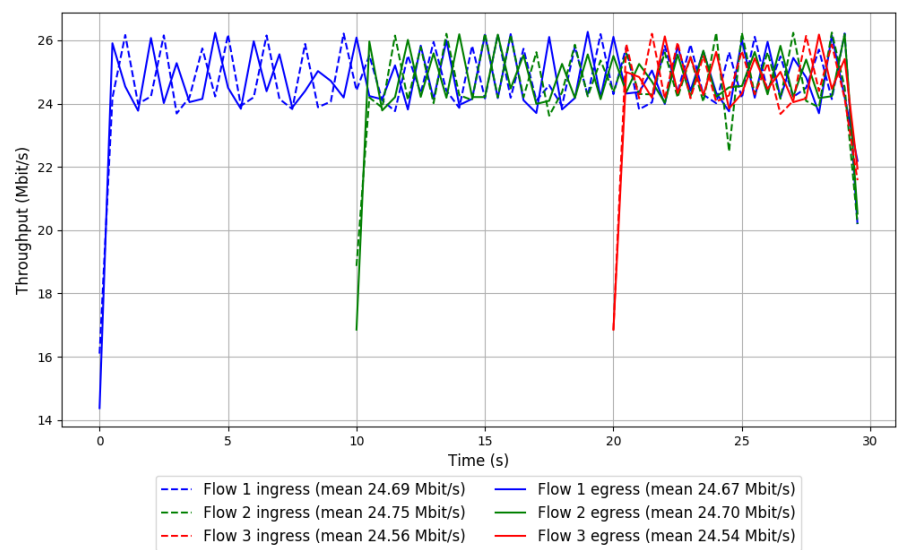
-- Flow 3:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 19.902 ms

Loss rate: 0.07%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-03 23:49:02

End at: 2018-04-03 23:49:32

Local clock offset: 0.777 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 20.641 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 20.620 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 20.588 ms

Loss rate: 0.08%

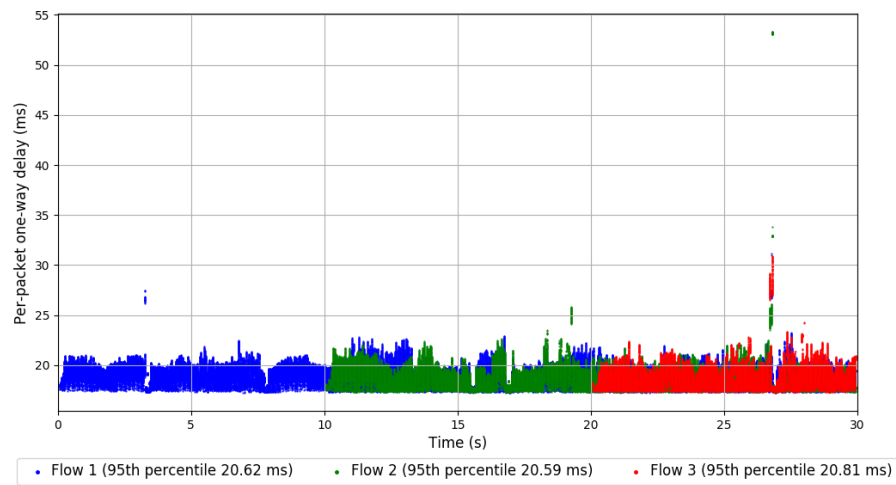
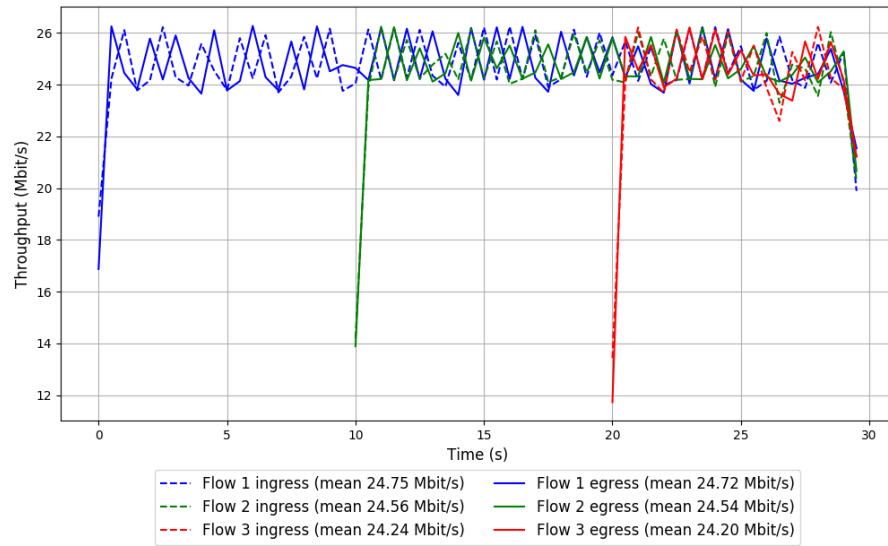
-- Flow 3:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 20.808 ms

Loss rate: 0.15%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-04 00:17:50

End at: 2018-04-04 00:18:20

Local clock offset: 0.378 ms

Remote clock offset: 0.458 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 20.648 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 20.787 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 24.46 Mbit/s

95th percentile per-packet one-way delay: 20.426 ms

Loss rate: 0.24%

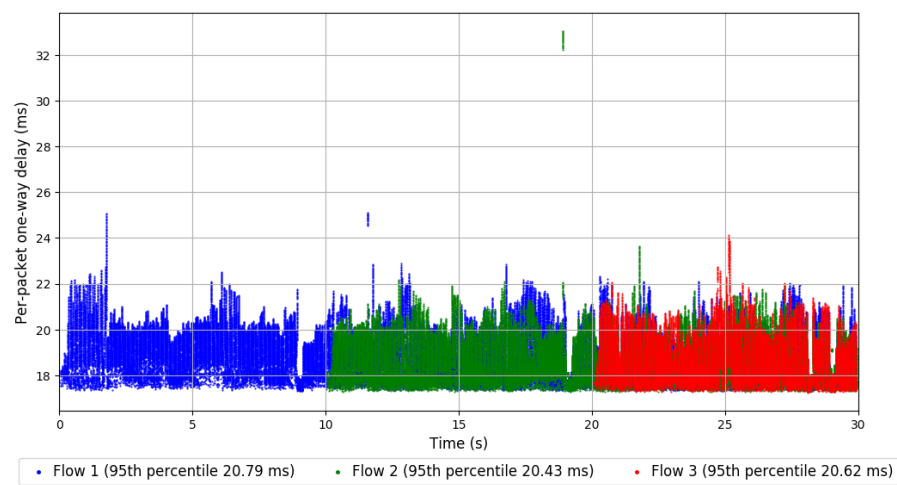
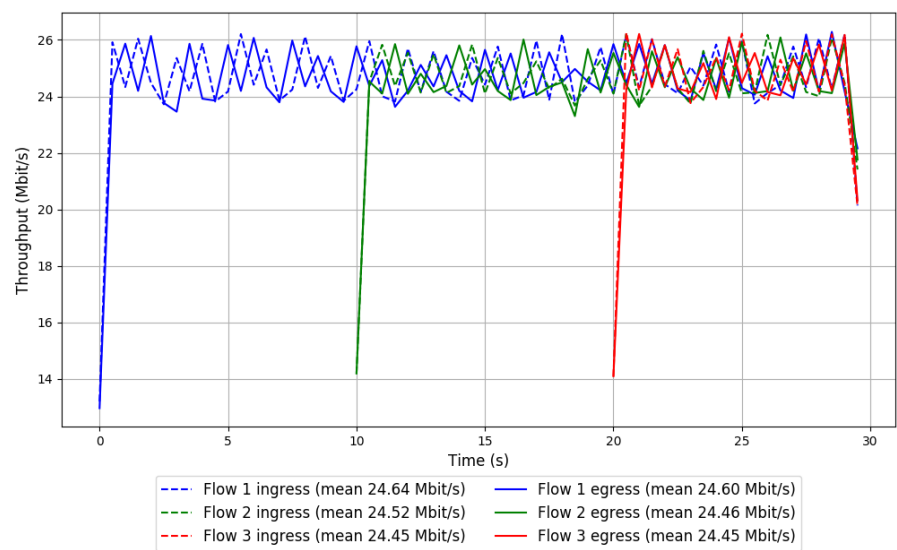
-- Flow 3:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 20.625 ms

Loss rate: 0.01%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-04 00:46:37

End at: 2018-04-04 00:47:07

Local clock offset: 0.194 ms

Remote clock offset: 0.493 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.13 Mbit/s

95th percentile per-packet one-way delay: 20.839 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 20.971 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 24.66 Mbit/s

95th percentile per-packet one-way delay: 20.430 ms

Loss rate: 0.02%

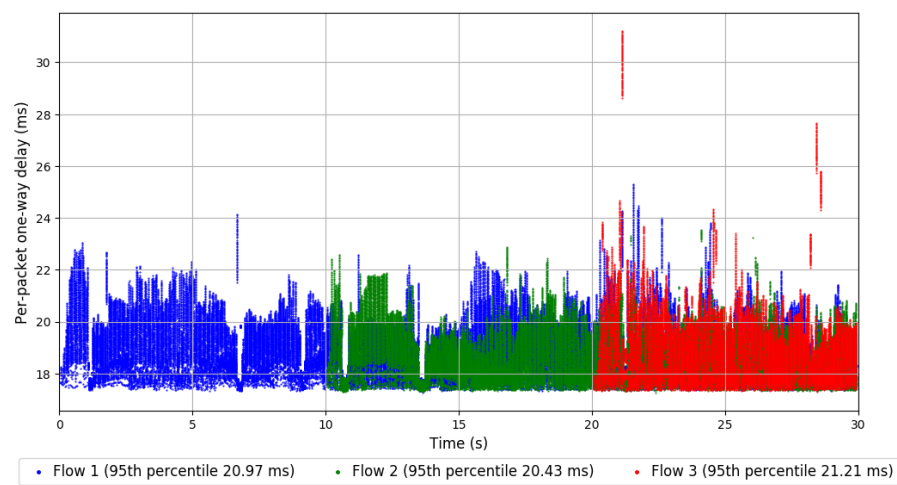
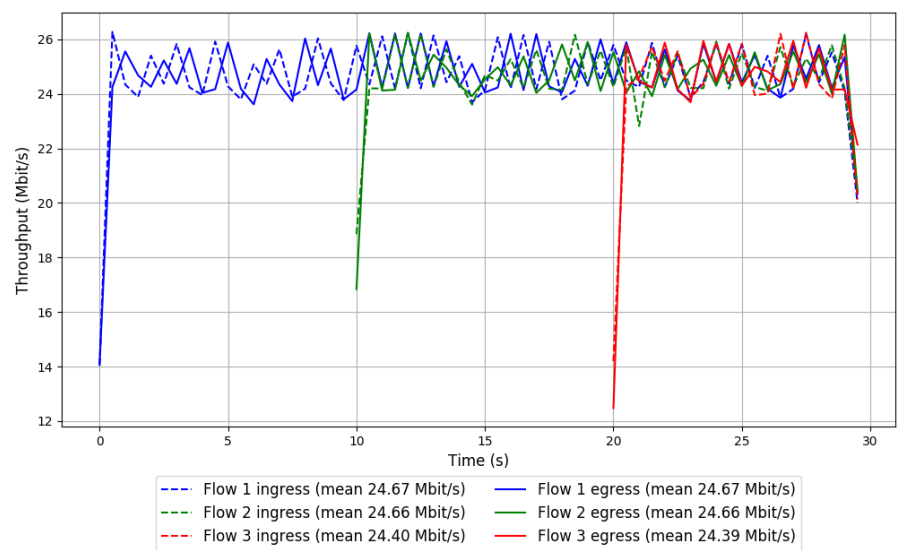
-- Flow 3:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 21.211 ms

Loss rate: 0.03%

Run 7: Report of Sprout — Data Link

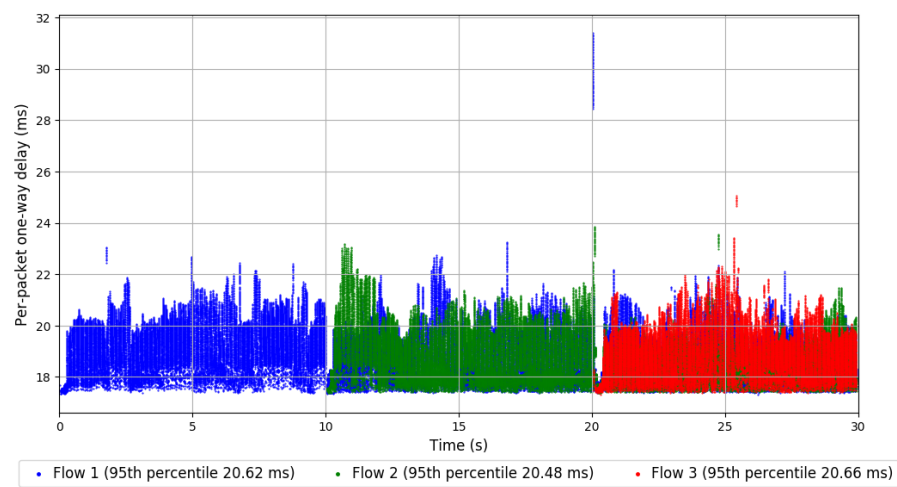
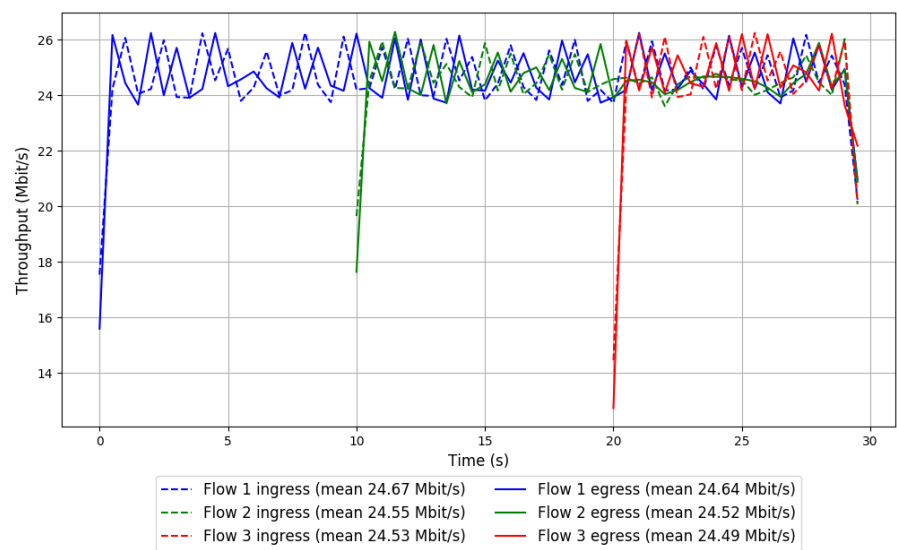


Run 8: Statistics of Sprout

Start at: 2018-04-04 01:15:28
End at: 2018-04-04 01:15:58
Local clock offset: -0.044 ms
Remote clock offset: 0.388 ms

Below is generated by plot.py at 2018-04-04 06:09:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.04 Mbit/s
95th percentile per-packet one-way delay: 20.590 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 20.617 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 20.484 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 20.661 ms
Loss rate: 0.14%

Run 8: Report of Sprout — Data Link

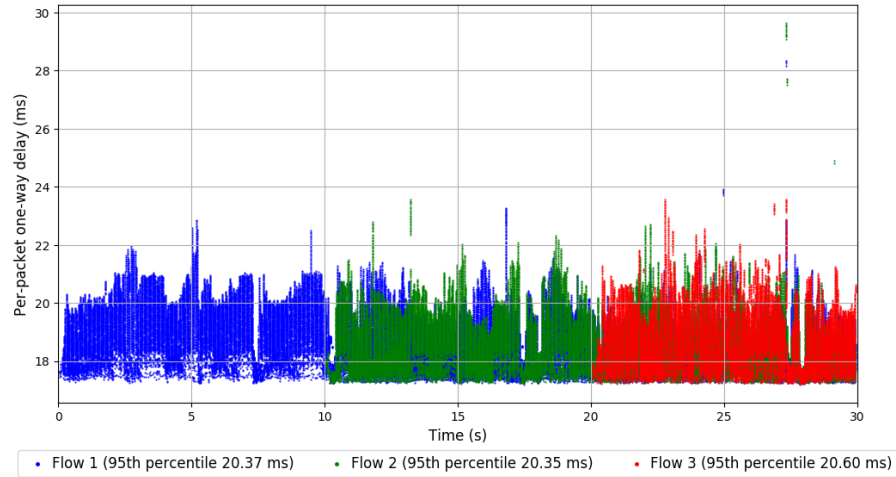
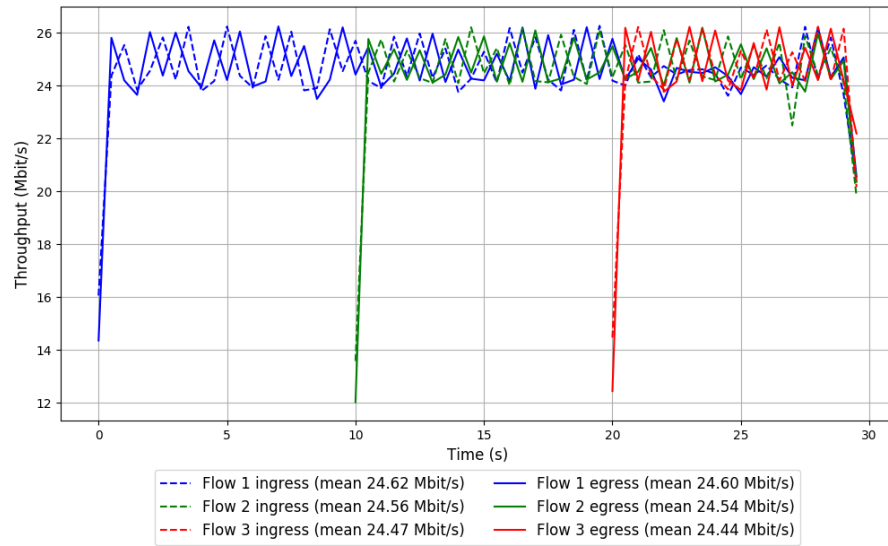


Run 9: Statistics of Sprout

Start at: 2018-04-04 01:44:20
End at: 2018-04-04 01:44:50
Local clock offset: 0.159 ms
Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-04-04 06:09:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.00 Mbit/s
95th percentile per-packet one-way delay: 20.413 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 20.371 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 20.353 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 20.601 ms
Loss rate: 0.09%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-04 02:13:16

End at: 2018-04-04 02:13:46

Local clock offset: 0.425 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-04-04 06:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 20.521 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.74 Mbit/s

95th percentile per-packet one-way delay: 20.450 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 20.723 ms

Loss rate: 0.09%

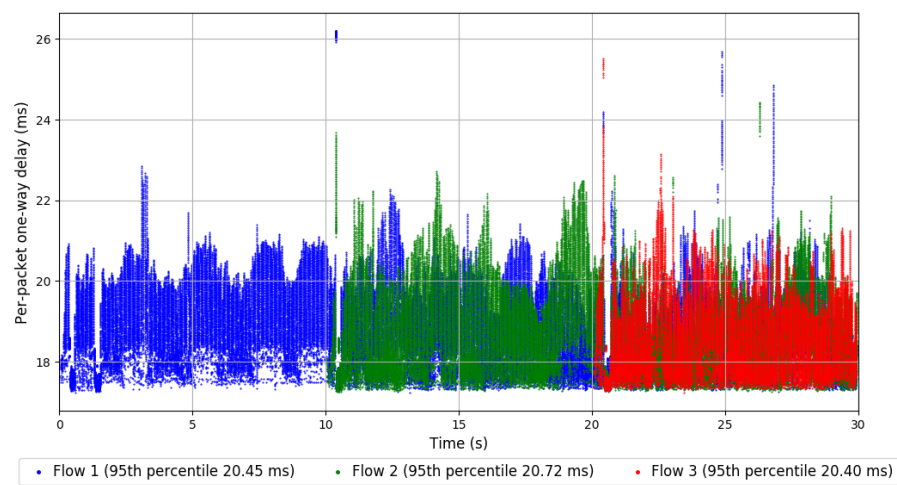
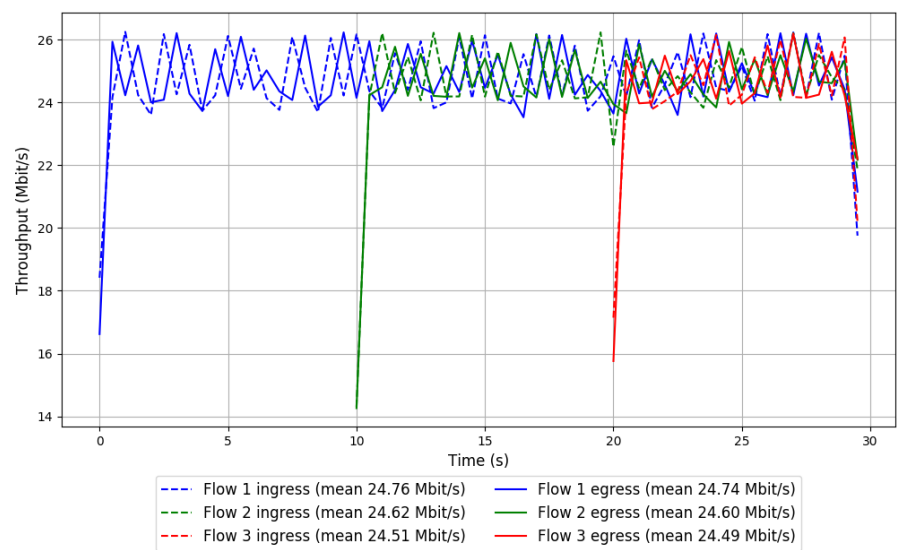
-- Flow 3:

Average throughput: 24.49 Mbit/s

95th percentile per-packet one-way delay: 20.396 ms

Loss rate: 0.06%

Run 10: Report of Sprout — Data Link

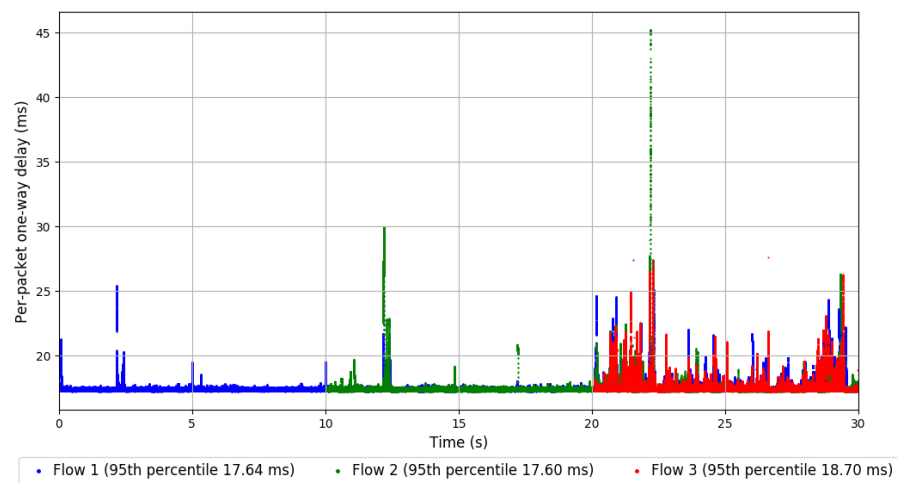
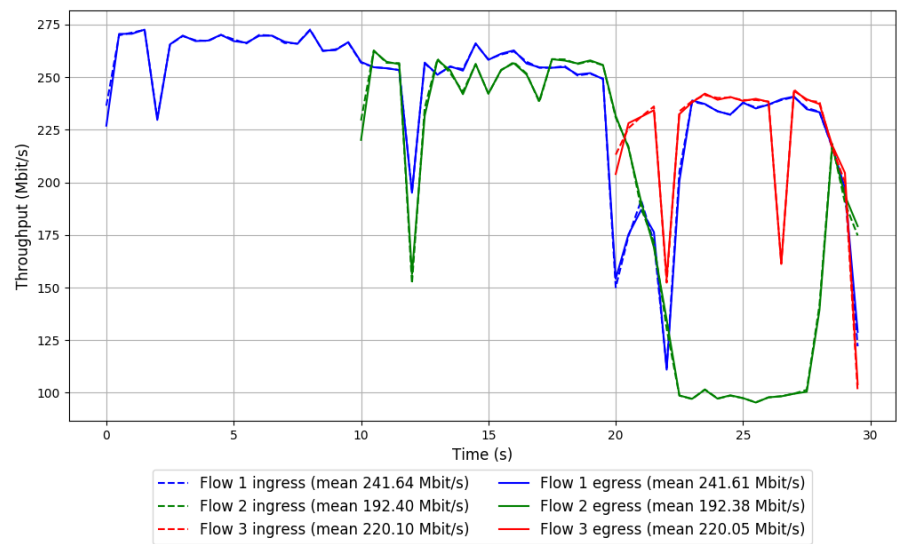


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-03 22:13:48
End at: 2018-04-03 22:14:18
Local clock offset: 0.682 ms
Remote clock offset: 0.206 ms

# Below is generated by plot.py at 2018-04-04 06:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 442.56 Mbit/s
95th percentile per-packet one-way delay: 17.826 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 241.61 Mbit/s
95th percentile per-packet one-way delay: 17.640 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 192.38 Mbit/s
95th percentile per-packet one-way delay: 17.600 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 220.05 Mbit/s
95th percentile per-packet one-way delay: 18.701 ms
Loss rate: 0.01%
```


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

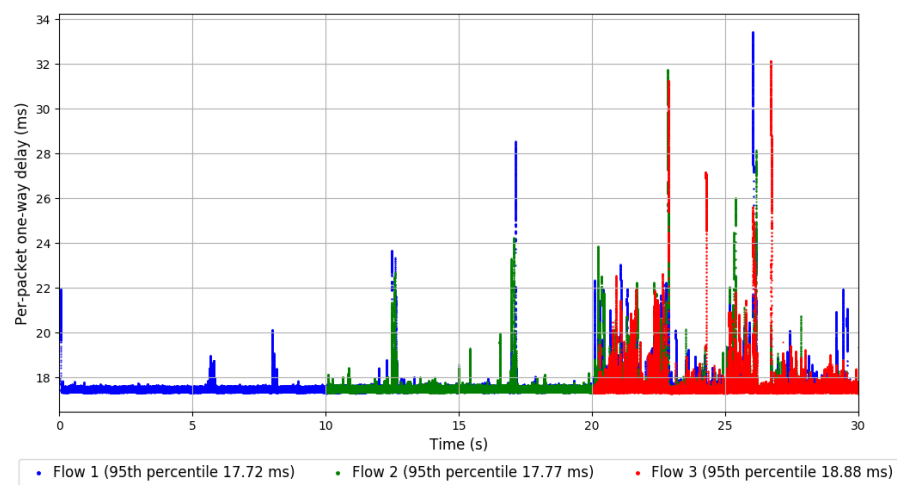
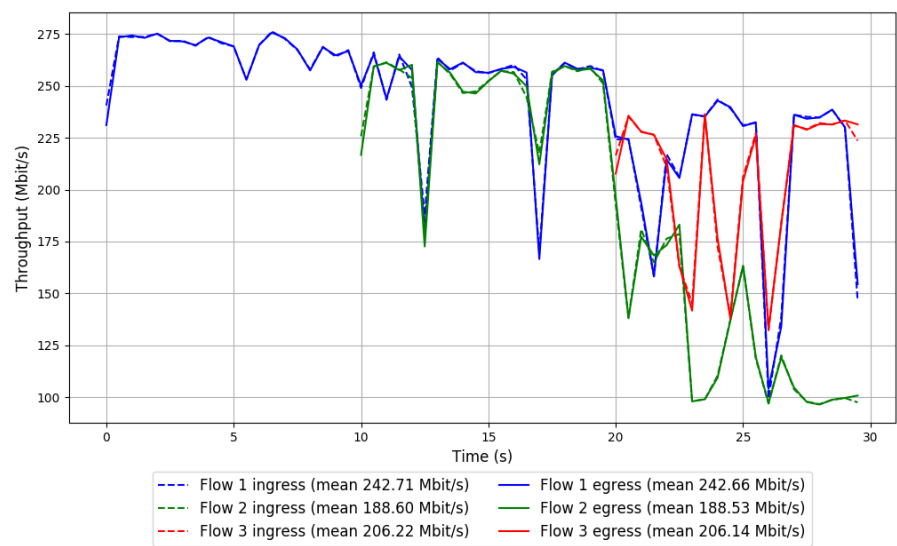


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-03 22:42:44
End at: 2018-04-03 22:43:14
Local clock offset: 1.208 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-04-04 06:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 436.63 Mbit/s
95th percentile per-packet one-way delay: 17.941 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 242.66 Mbit/s
95th percentile per-packet one-way delay: 17.716 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 188.53 Mbit/s
95th percentile per-packet one-way delay: 17.772 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 206.14 Mbit/s
95th percentile per-packet one-way delay: 18.878 ms
Loss rate: 0.04%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-03 23:11:26

End at: 2018-04-03 23:11:56

Local clock offset: 1.347 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-04-04 06:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.66 Mbit/s

95th percentile per-packet one-way delay: 17.537 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 110.58 Mbit/s

95th percentile per-packet one-way delay: 17.542 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 18.169 ms

Loss rate: 0.57%

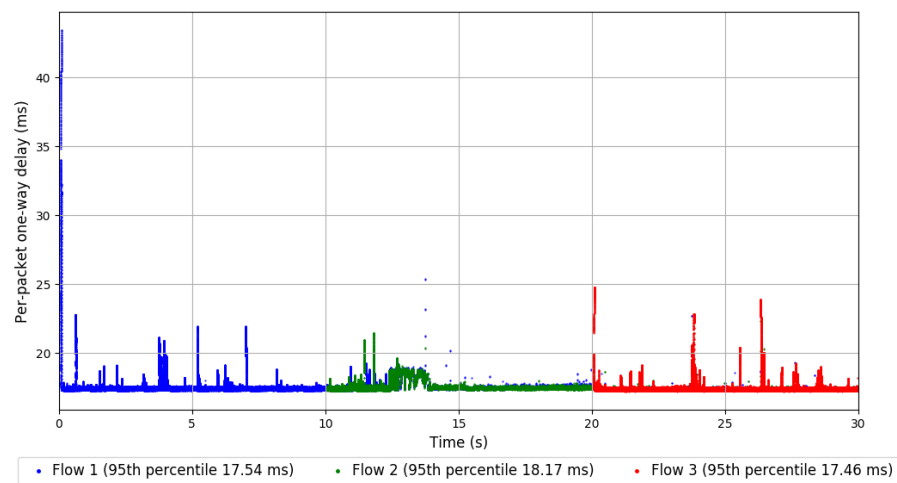
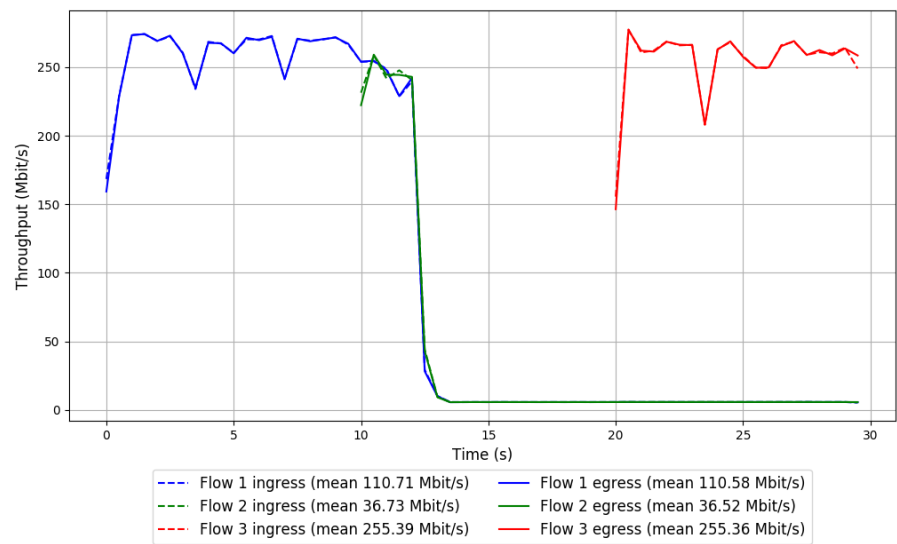
-- Flow 3:

Average throughput: 255.36 Mbit/s

95th percentile per-packet one-way delay: 17.461 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-03 23:39:59

End at: 2018-04-03 23:40:29

Local clock offset: 0.931 ms

Remote clock offset: 0.485 ms

Below is generated by plot.py at 2018-04-04 06:17:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 437.38 Mbit/s

95th percentile per-packet one-way delay: 17.714 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 238.79 Mbit/s

95th percentile per-packet one-way delay: 17.639 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 186.27 Mbit/s

95th percentile per-packet one-way delay: 17.577 ms

Loss rate: 0.02%

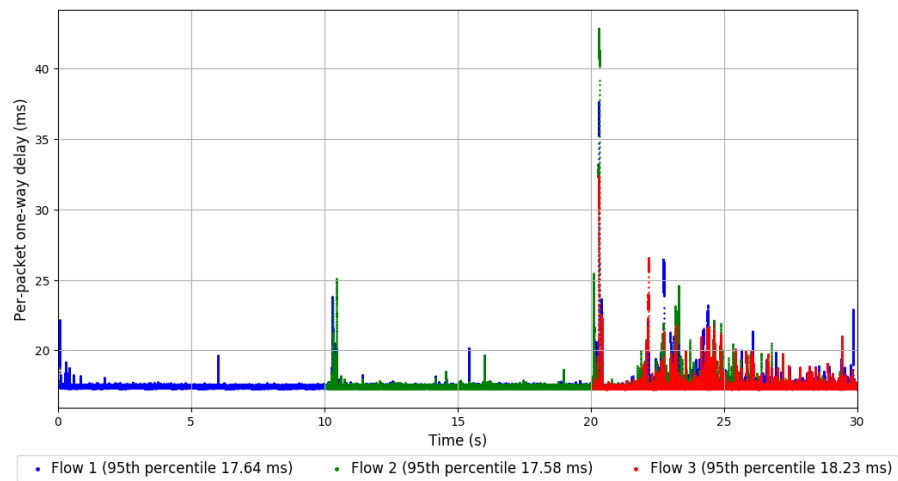
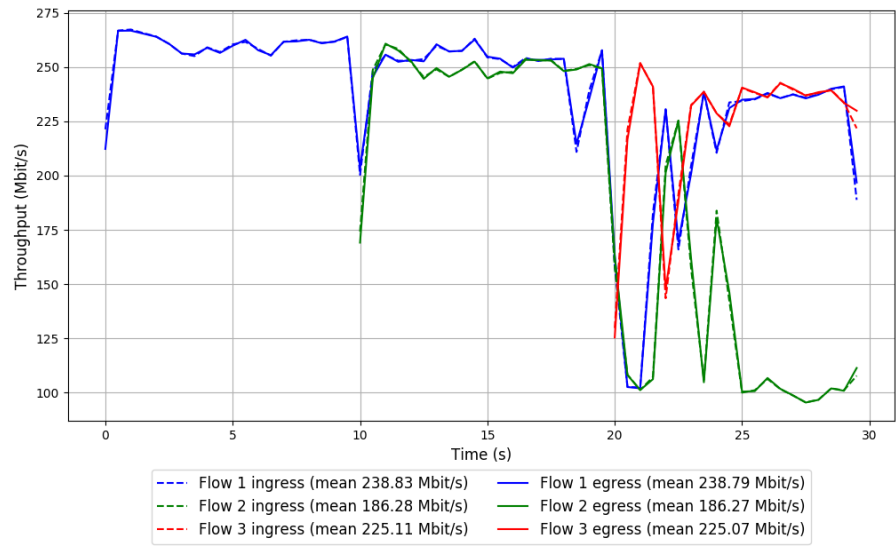
-- Flow 3:

Average throughput: 225.07 Mbit/s

95th percentile per-packet one-way delay: 18.234 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-04 00:08:46

End at: 2018-04-04 00:09:16

Local clock offset: 0.543 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2018-04-04 06:17:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.33 Mbit/s

95th percentile per-packet one-way delay: 17.542 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 204.09 Mbit/s

95th percentile per-packet one-way delay: 17.532 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 187.91 Mbit/s

95th percentile per-packet one-way delay: 17.542 ms

Loss rate: 0.01%

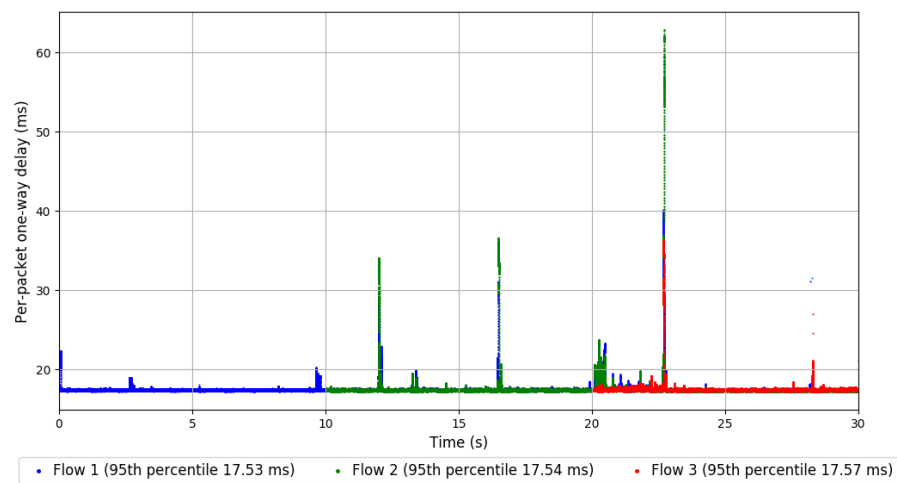
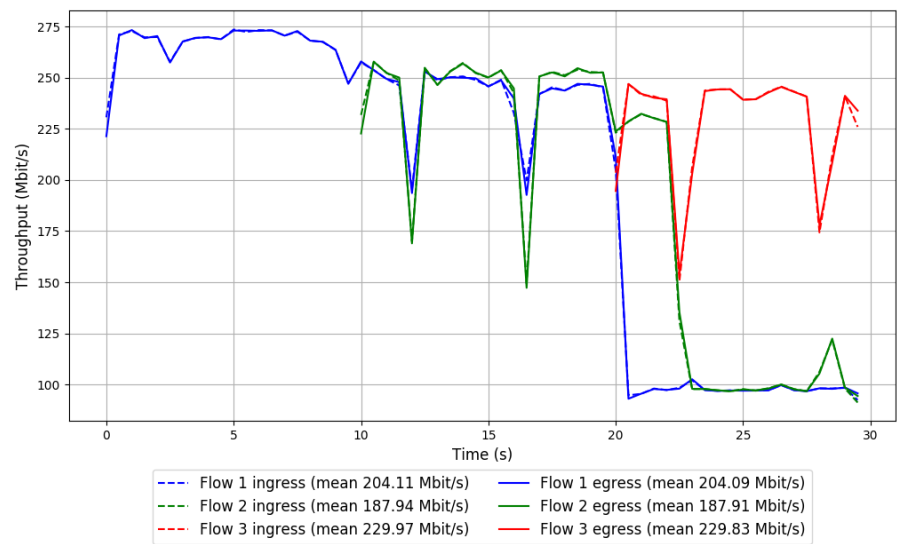
-- Flow 3:

Average throughput: 229.83 Mbit/s

95th percentile per-packet one-way delay: 17.571 ms

Loss rate: 0.03%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-04 00:37:25

End at: 2018-04-04 00:37:55

Local clock offset: 0.054 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-04-04 06:17:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.15 Mbit/s

95th percentile per-packet one-way delay: 18.667 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 230.80 Mbit/s

95th percentile per-packet one-way delay: 17.937 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 229.69 Mbit/s

95th percentile per-packet one-way delay: 18.743 ms

Loss rate: 0.03%

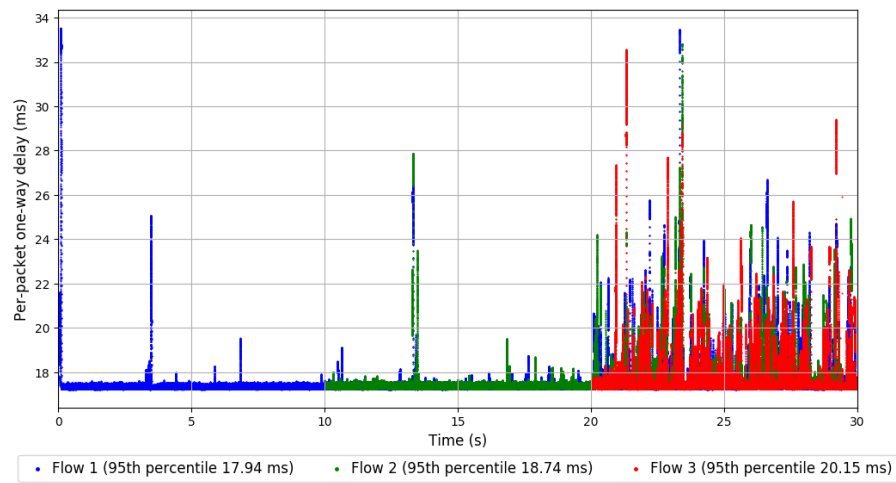
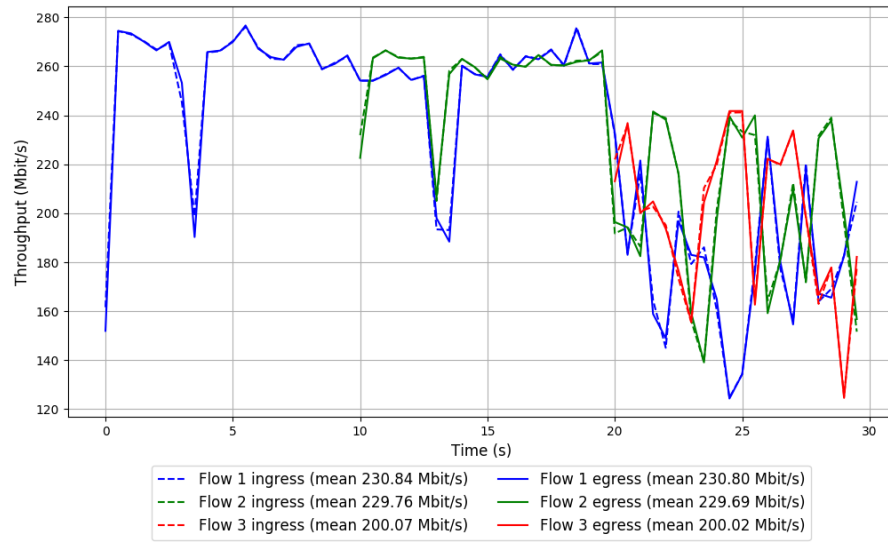
-- Flow 3:

Average throughput: 200.02 Mbit/s

95th percentile per-packet one-way delay: 20.148 ms

Loss rate: 0.02%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-04 01:06:18

End at: 2018-04-04 01:06:48

Local clock offset: -0.127 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2018-04-04 06:22:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 444.75 Mbit/s

95th percentile per-packet one-way delay: 18.209 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 236.35 Mbit/s

95th percentile per-packet one-way delay: 17.762 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 222.31 Mbit/s

95th percentile per-packet one-way delay: 18.689 ms

Loss rate: 0.01%

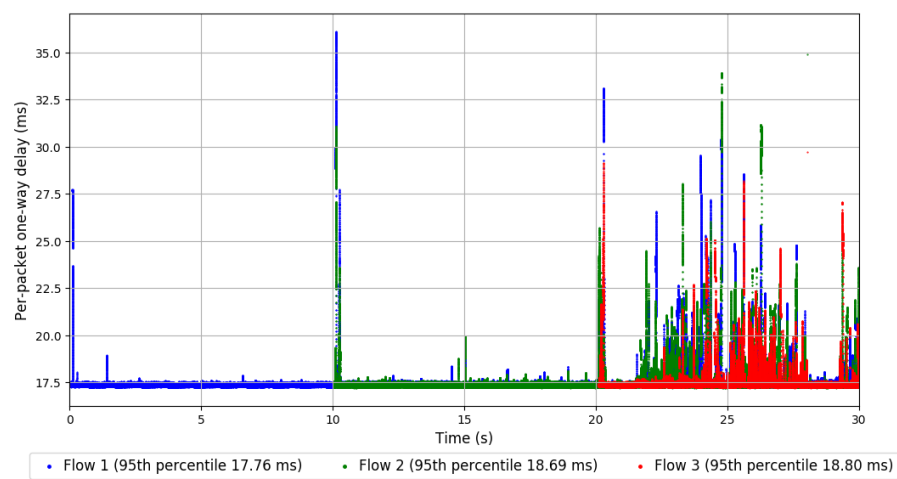
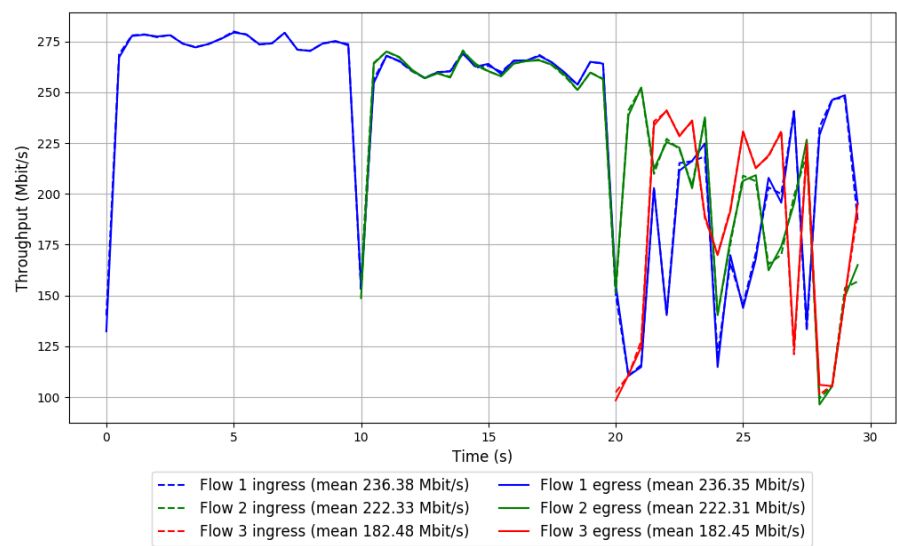
-- Flow 3:

Average throughput: 182.45 Mbit/s

95th percentile per-packet one-way delay: 18.803 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

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

End at: 2018-04-04 01:35:41

Local clock offset: 0.19 ms

Remote clock offset: 0.456 ms

Below is generated by plot.py at 2018-04-04 06:22:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 447.49 Mbit/s

95th percentile per-packet one-way delay: 18.715 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 238.06 Mbit/s

95th percentile per-packet one-way delay: 18.203 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 221.80 Mbit/s

95th percentile per-packet one-way delay: 18.804 ms

Loss rate: 0.00%

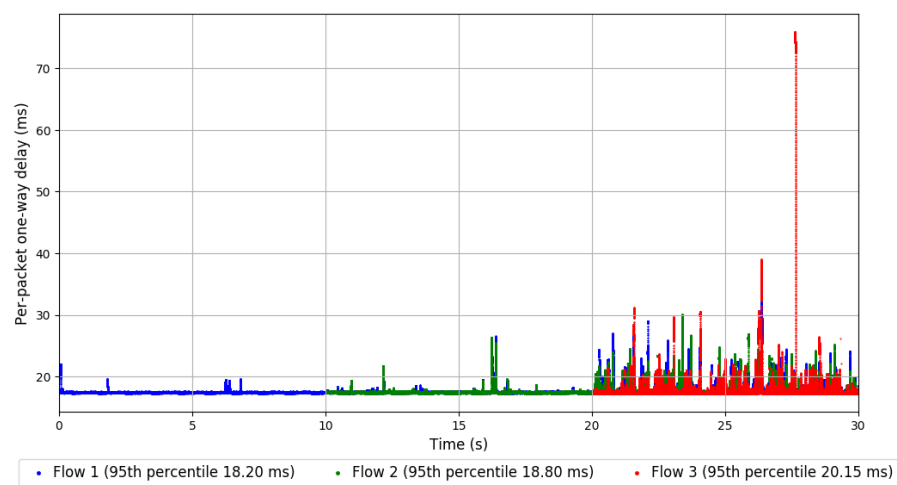
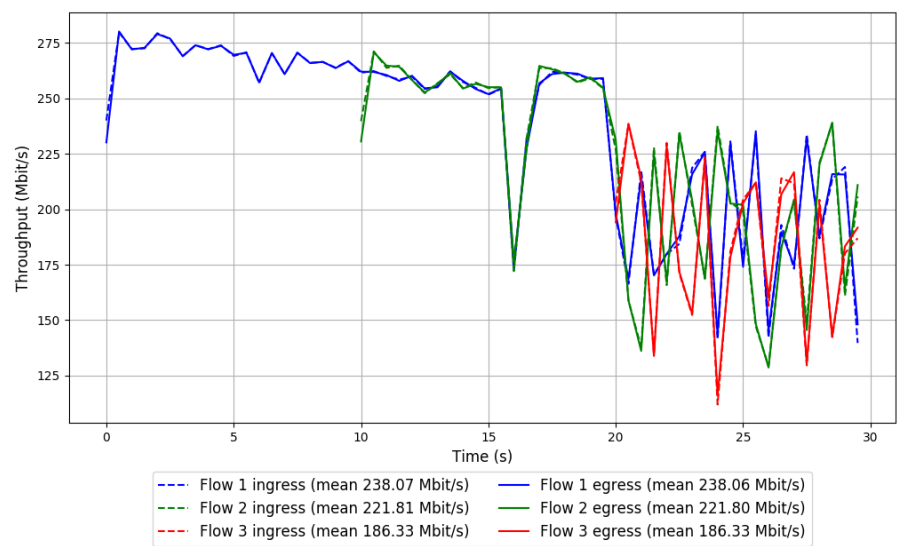
-- Flow 3:

Average throughput: 186.33 Mbit/s

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

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-04 02:03:59

End at: 2018-04-04 02:04:29

Local clock offset: 0.091 ms

Remote clock offset: 0.432 ms

Below is generated by plot.py at 2018-04-04 06:23:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 436.16 Mbit/s

95th percentile per-packet one-way delay: 18.652 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 221.09 Mbit/s

95th percentile per-packet one-way delay: 18.014 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 226.53 Mbit/s

95th percentile per-packet one-way delay: 18.656 ms

Loss rate: 0.01%

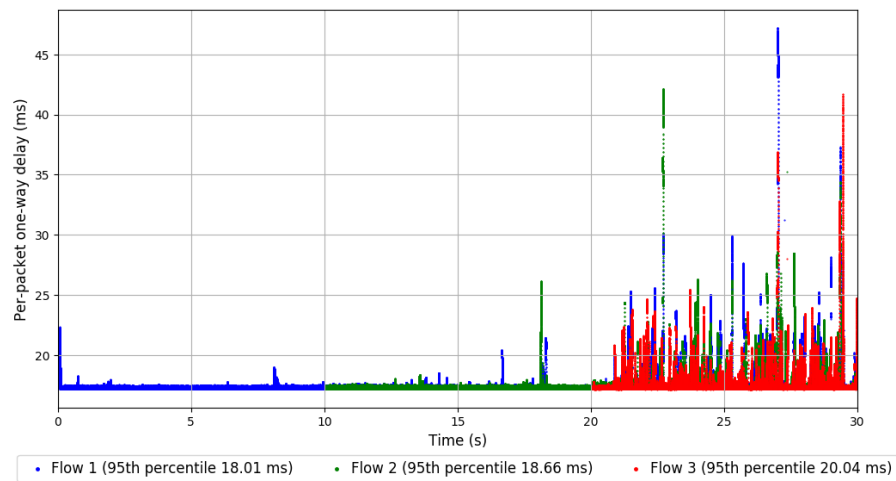
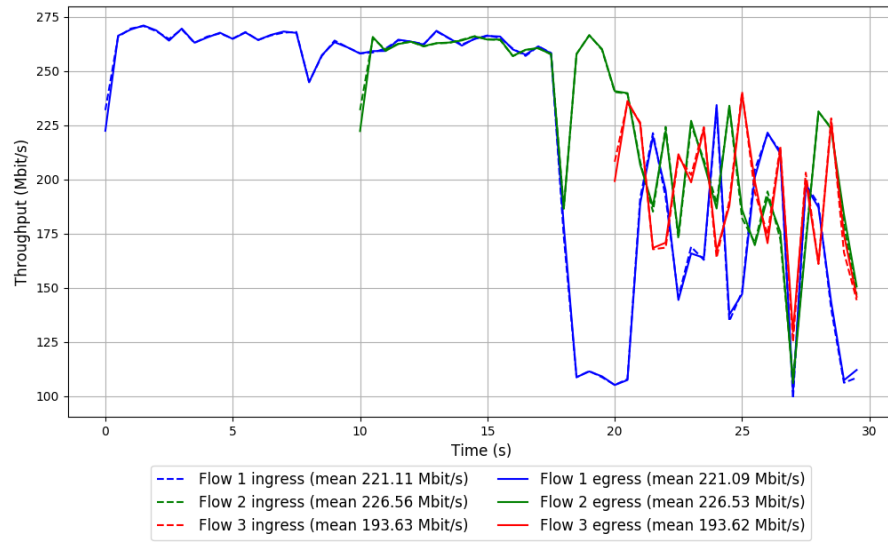
-- Flow 3:

Average throughput: 193.62 Mbit/s

95th percentile per-packet one-way delay: 20.035 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-04 02:33:03

End at: 2018-04-04 02:33:33

Local clock offset: 0.579 ms

Remote clock offset: 0.508 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 457.85 Mbit/s

95th percentile per-packet one-way delay: 18.714 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 242.50 Mbit/s

95th percentile per-packet one-way delay: 18.054 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 225.39 Mbit/s

95th percentile per-packet one-way delay: 18.724 ms

Loss rate: 0.01%

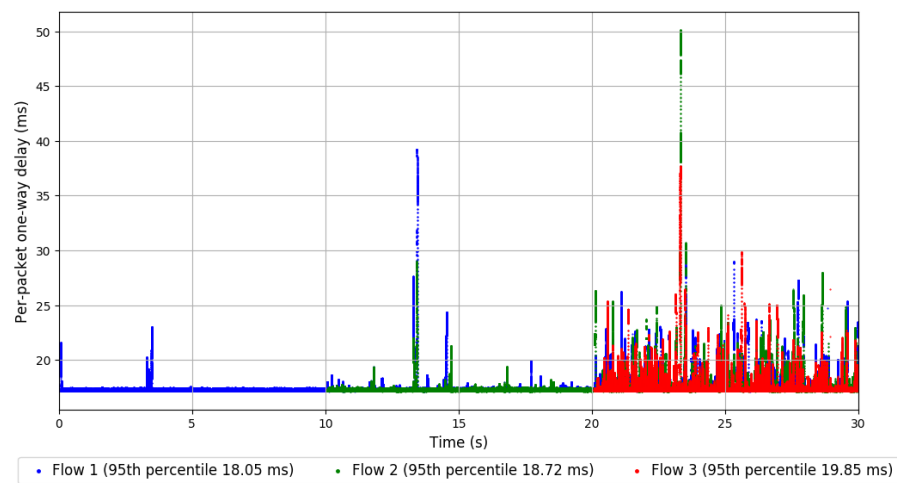
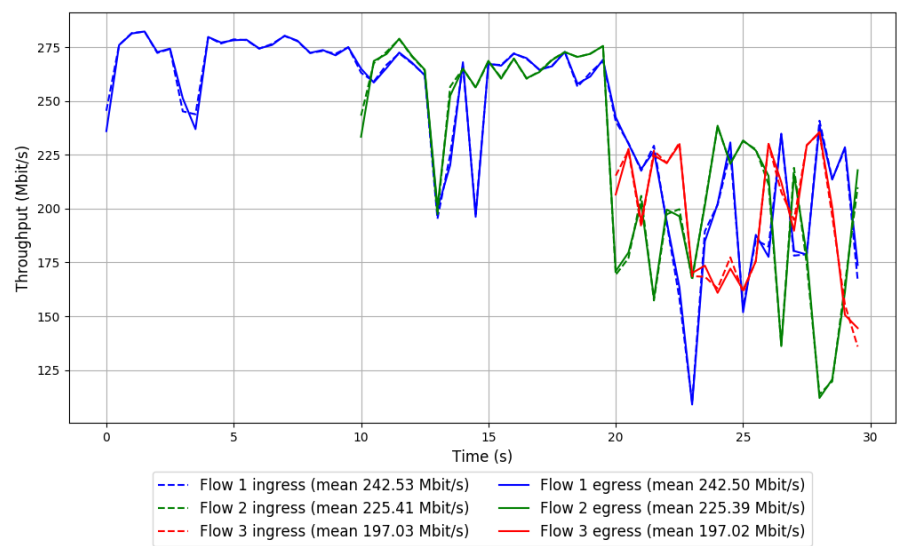
-- Flow 3:

Average throughput: 197.02 Mbit/s

95th percentile per-packet one-way delay: 19.850 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-03 22:00:22

End at: 2018-04-03 22:00:52

Local clock offset: 0.751 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.69 Mbit/s

95th percentile per-packet one-way delay: 17.917 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 87.28 Mbit/s

95th percentile per-packet one-way delay: 17.893 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 81.27 Mbit/s

95th percentile per-packet one-way delay: 18.087 ms

Loss rate: 0.30%

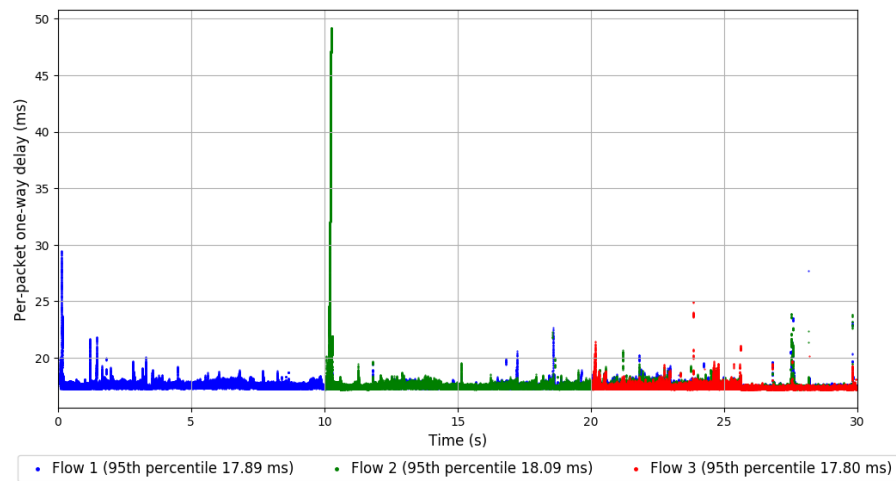
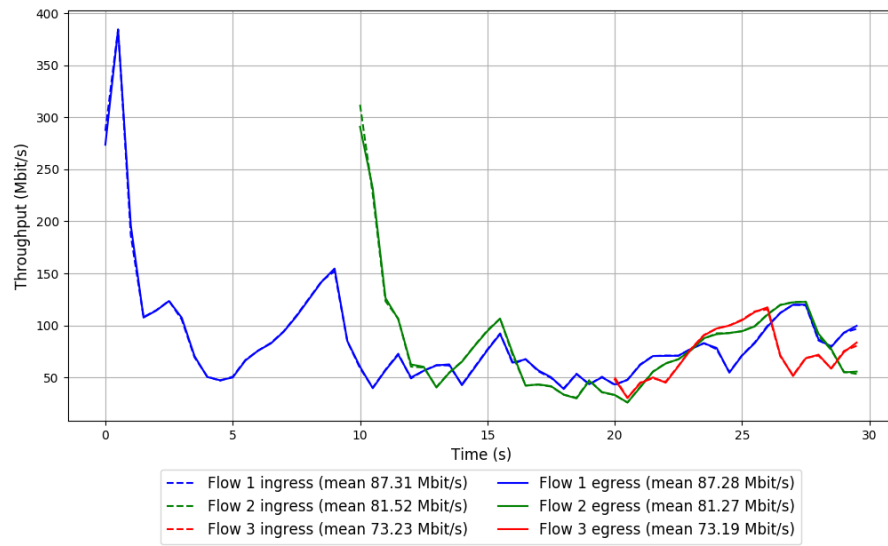
-- Flow 3:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 17.802 ms

Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-03 22:29:09

End at: 2018-04-03 22:29:39

Local clock offset: 1.053 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.50 Mbit/s

95th percentile per-packet one-way delay: 17.869 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 110.87 Mbit/s

95th percentile per-packet one-way delay: 17.875 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 17.836 ms

Loss rate: 0.01%

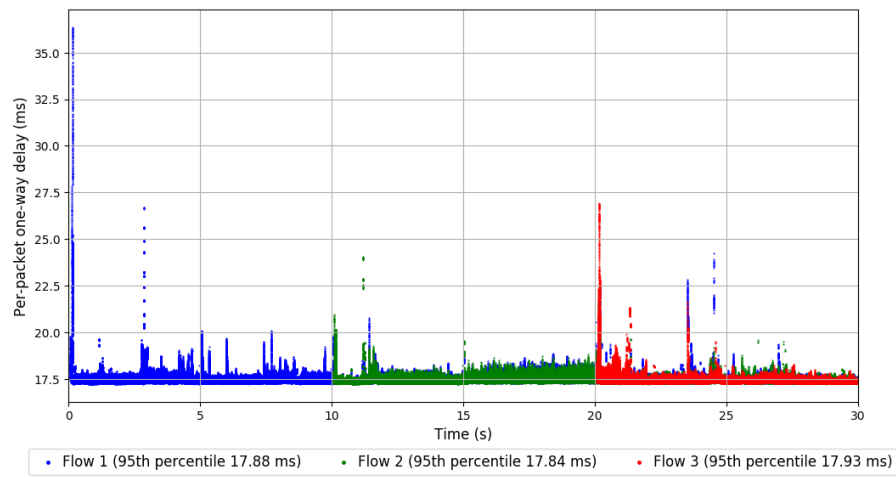
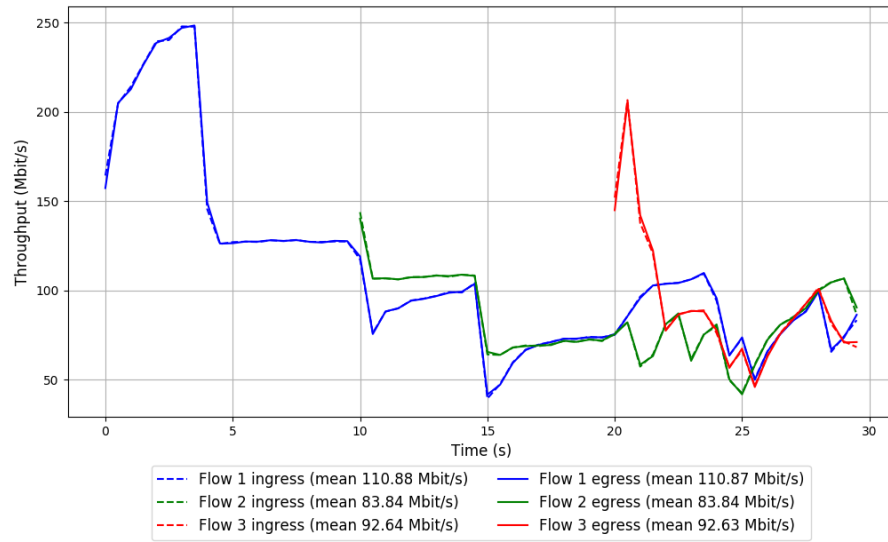
-- Flow 3:

Average throughput: 92.63 Mbit/s

95th percentile per-packet one-way delay: 17.925 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-03 22:58:06

End at: 2018-04-03 22:58:36

Local clock offset: 1.416 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.46 Mbit/s

95th percentile per-packet one-way delay: 17.788 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 17.841 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 107.43 Mbit/s

95th percentile per-packet one-way delay: 17.775 ms

Loss rate: 0.27%

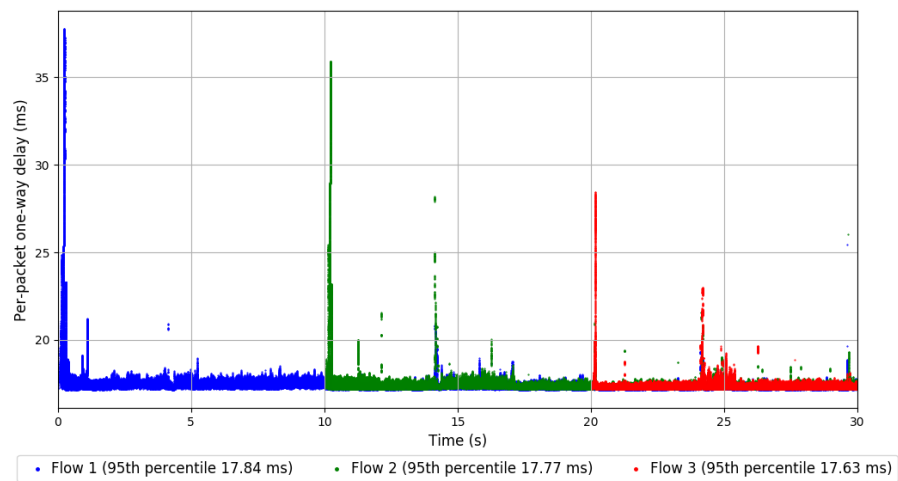
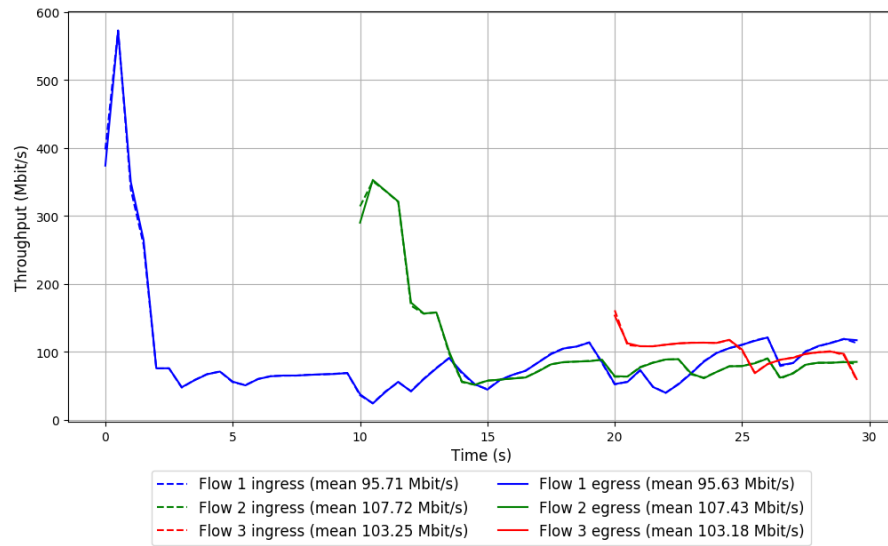
-- Flow 3:

Average throughput: 103.18 Mbit/s

95th percentile per-packet one-way delay: 17.627 ms

Loss rate: 0.07%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-03 23:26:27

End at: 2018-04-03 23:26:57

Local clock offset: 1.473 ms

Remote clock offset: 0.388 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.86 Mbit/s

95th percentile per-packet one-way delay: 17.876 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 70.57 Mbit/s

95th percentile per-packet one-way delay: 17.868 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 17.958 ms

Loss rate: 0.11%

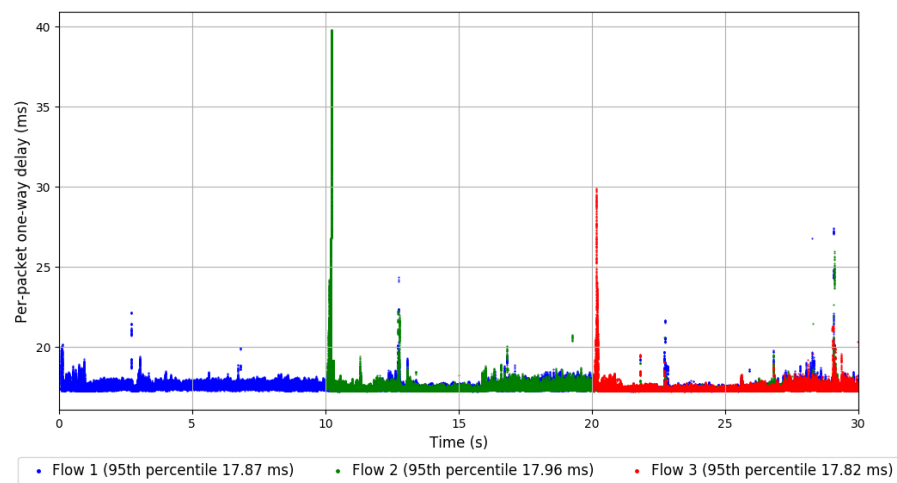
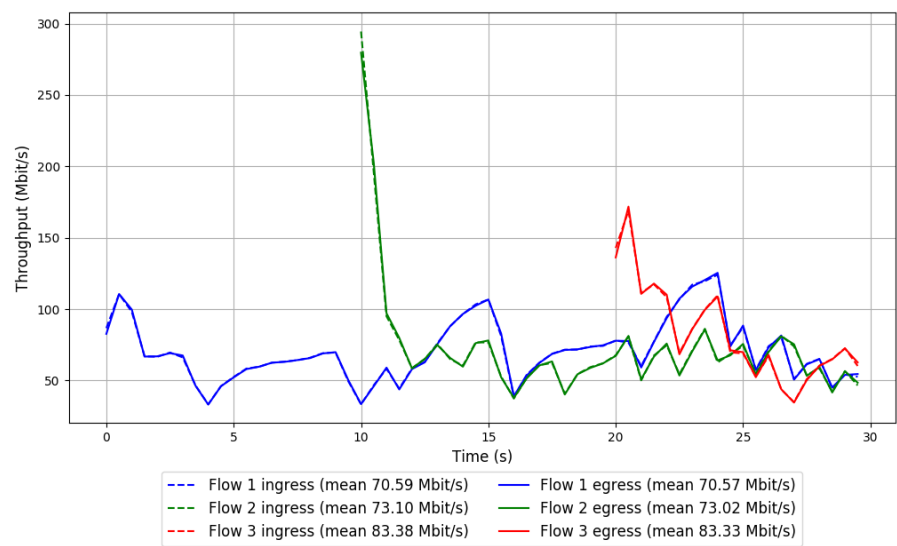
-- Flow 3:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 17.818 ms

Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-03 23:55:12

End at: 2018-04-03 23:55:42

Local clock offset: 0.722 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.79 Mbit/s

95th percentile per-packet one-way delay: 17.913 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 115.32 Mbit/s

95th percentile per-packet one-way delay: 17.863 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 99.35 Mbit/s

95th percentile per-packet one-way delay: 17.918 ms

Loss rate: 0.13%

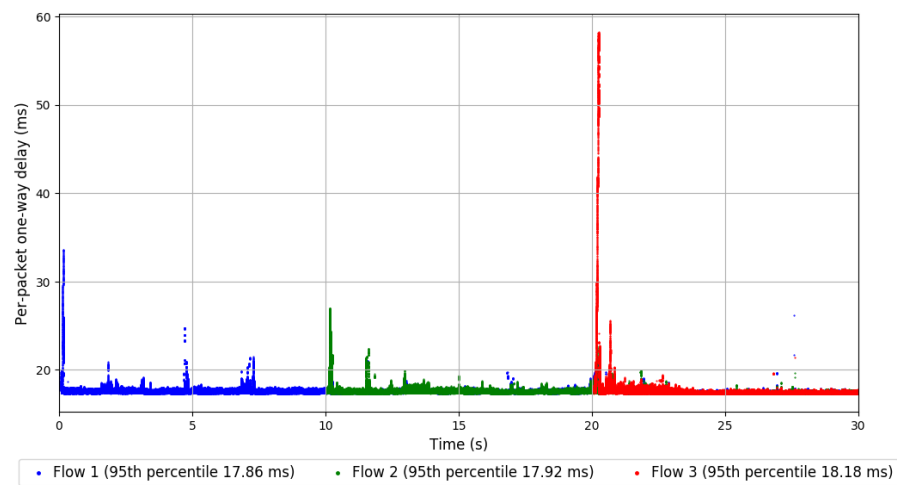
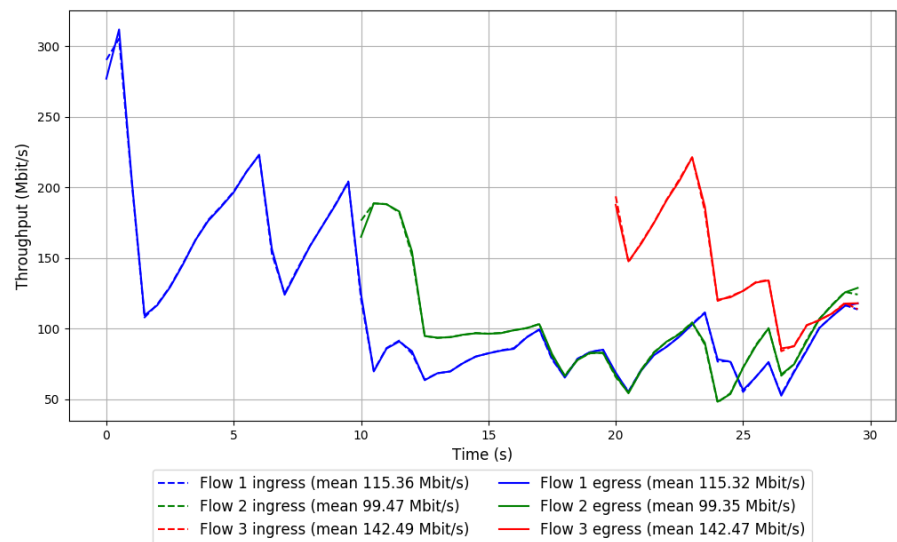
-- Flow 3:

Average throughput: 142.47 Mbit/s

95th percentile per-packet one-way delay: 18.183 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-04 00:23:55

End at: 2018-04-04 00:24:25

Local clock offset: 0.268 ms

Remote clock offset: 0.406 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.52 Mbit/s

95th percentile per-packet one-way delay: 17.882 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 17.848 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 107.93 Mbit/s

95th percentile per-packet one-way delay: 17.883 ms

Loss rate: 0.11%

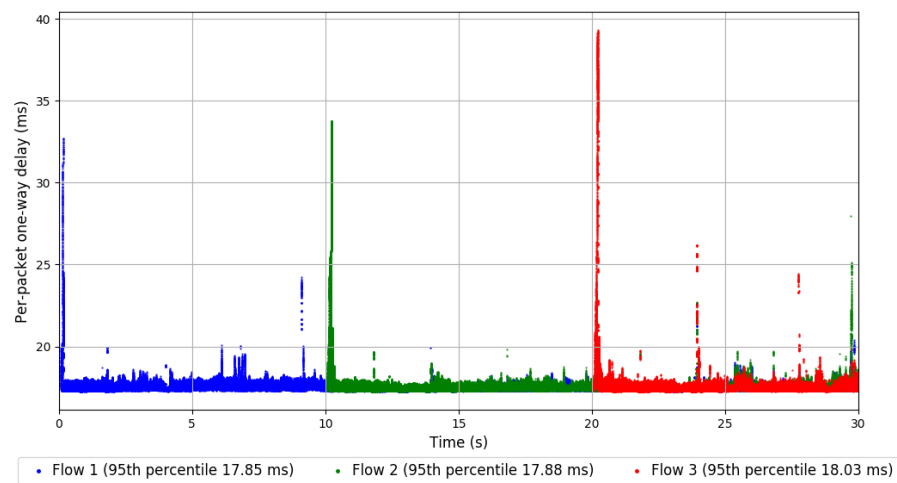
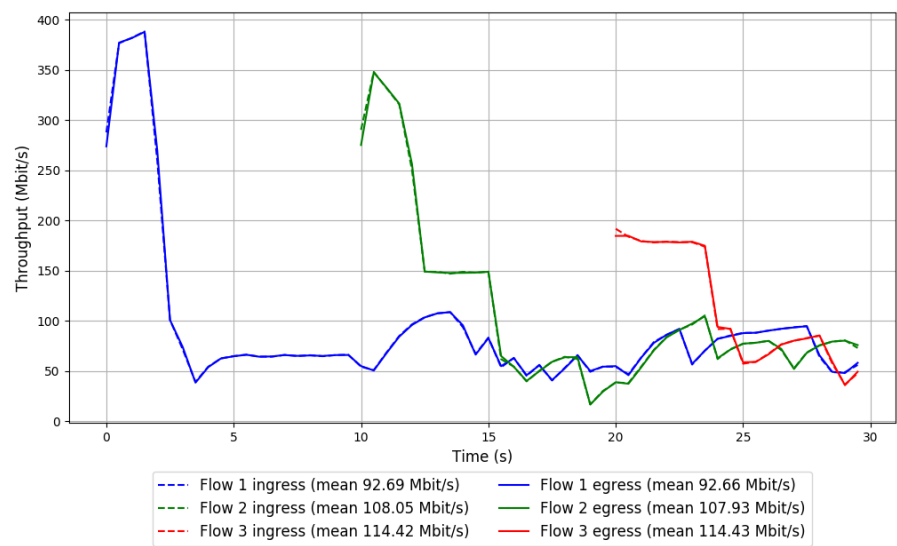
-- Flow 3:

Average throughput: 114.43 Mbit/s

95th percentile per-packet one-way delay: 18.027 ms

Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-04 00:52:48

End at: 2018-04-04 00:53:18

Local clock offset: 0.169 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.61 Mbit/s

95th percentile per-packet one-way delay: 17.754 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 17.804 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 114.17 Mbit/s

95th percentile per-packet one-way delay: 17.742 ms

Loss rate: 0.10%

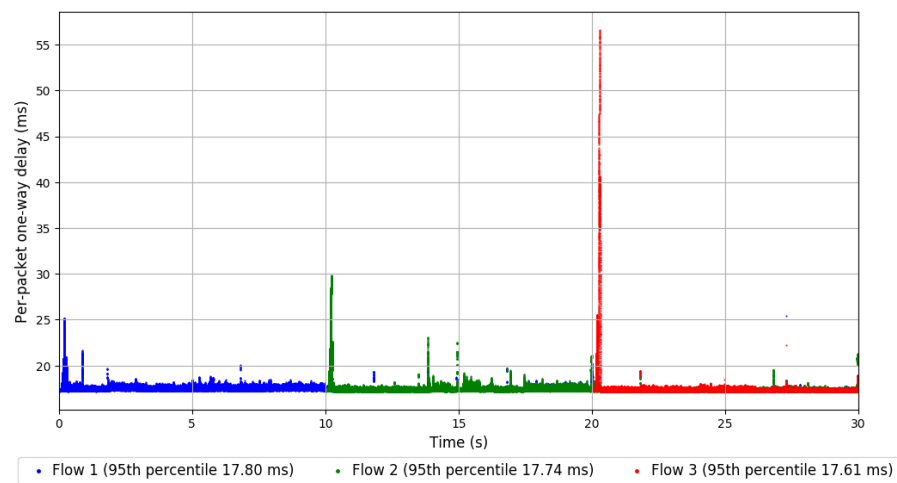
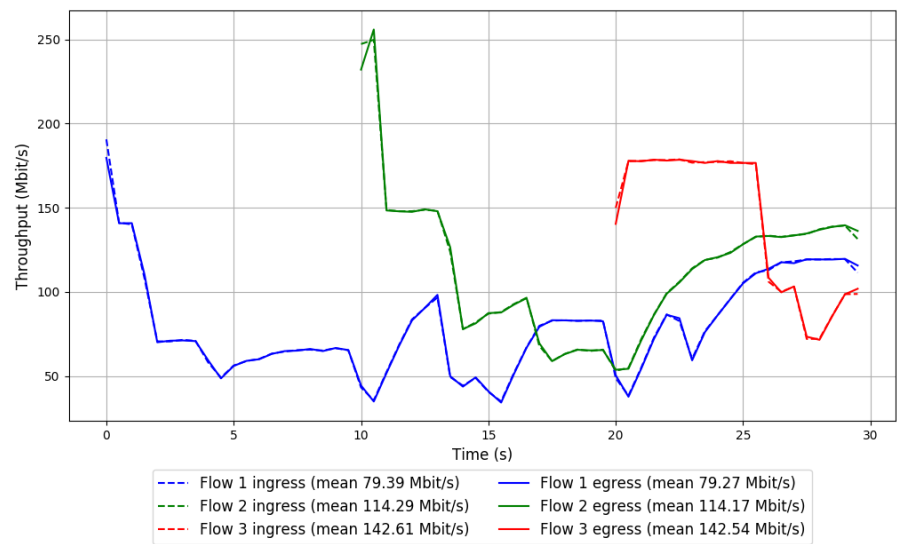
-- Flow 3:

Average throughput: 142.54 Mbit/s

95th percentile per-packet one-way delay: 17.615 ms

Loss rate: 0.11%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-04 01:21:34

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

Local clock offset: 0.189 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.02 Mbit/s

95th percentile per-packet one-way delay: 17.816 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 65.13 Mbit/s

95th percentile per-packet one-way delay: 17.839 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 103.34 Mbit/s

95th percentile per-packet one-way delay: 17.765 ms

Loss rate: 0.02%

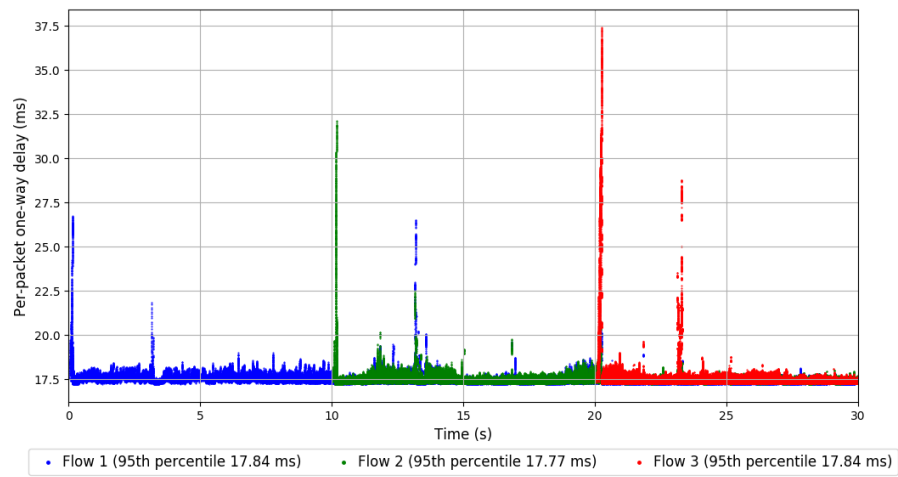
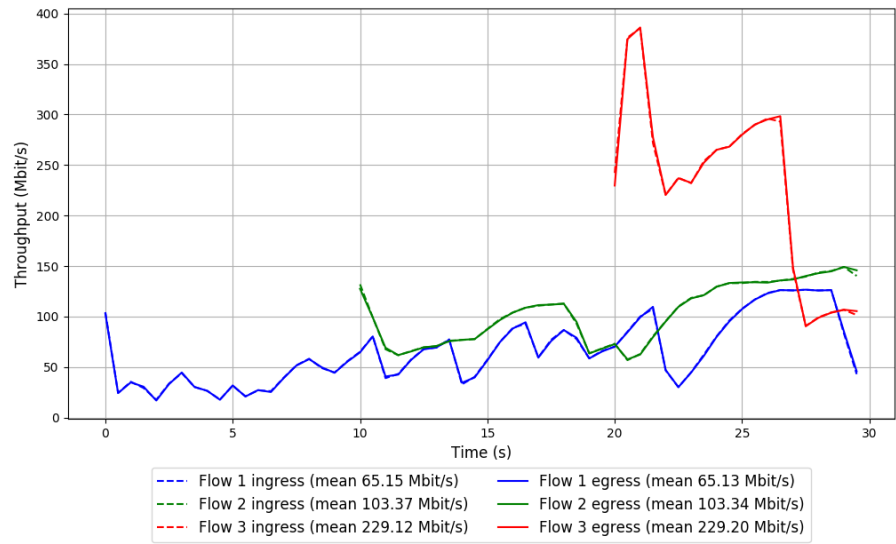
-- Flow 3:

Average throughput: 229.20 Mbit/s

95th percentile per-packet one-way delay: 17.835 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-04 01:50:24

End at: 2018-04-04 01:50:54

Local clock offset: 0.156 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.31 Mbit/s

95th percentile per-packet one-way delay: 17.695 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 17.738 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 125.05 Mbit/s

95th percentile per-packet one-way delay: 17.692 ms

Loss rate: 0.00%

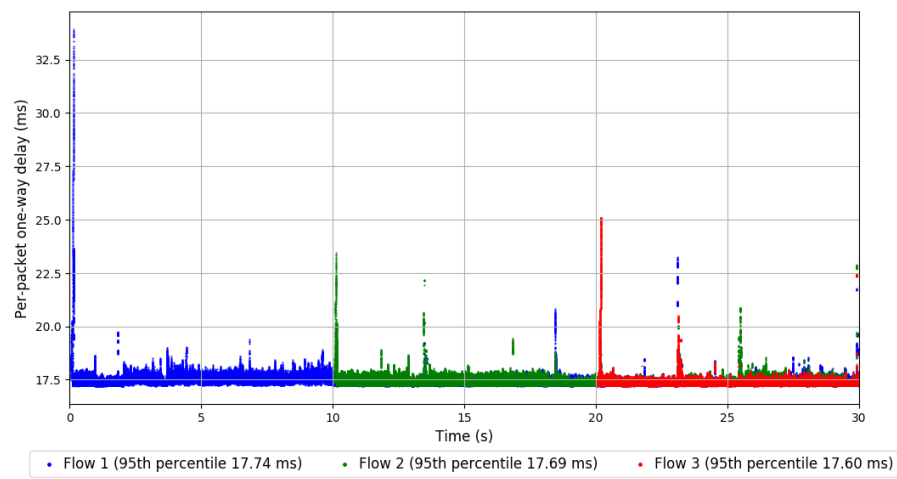
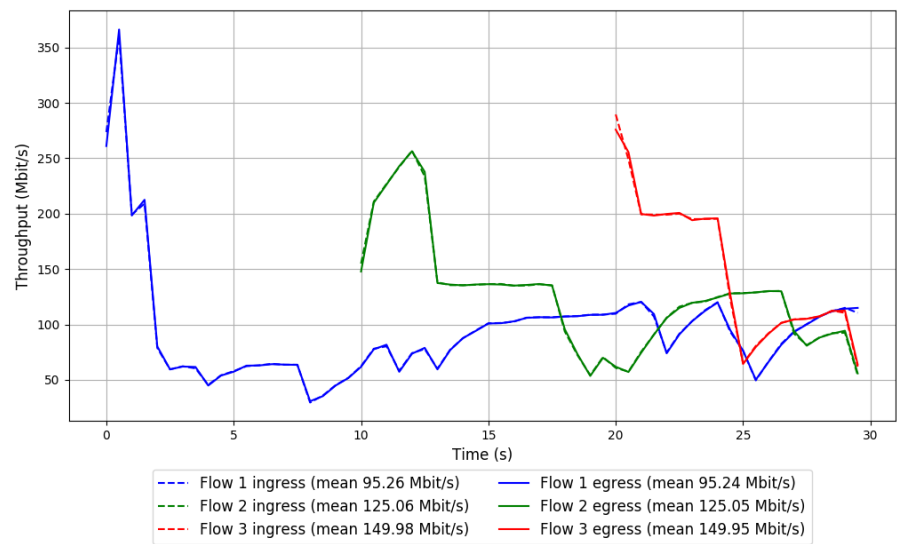
-- Flow 3:

Average throughput: 149.95 Mbit/s

95th percentile per-packet one-way delay: 17.597 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-04 02:19:29

End at: 2018-04-04 02:19:59

Local clock offset: 0.452 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-04-04 06:29:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.03 Mbit/s

95th percentile per-packet one-way delay: 18.132 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 109.85 Mbit/s

95th percentile per-packet one-way delay: 17.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.56 Mbit/s

95th percentile per-packet one-way delay: 20.967 ms

Loss rate: 0.01%

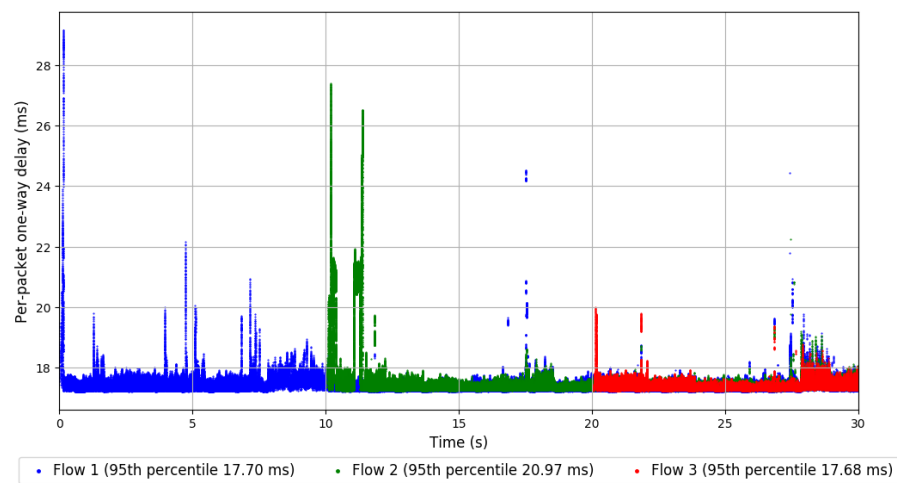
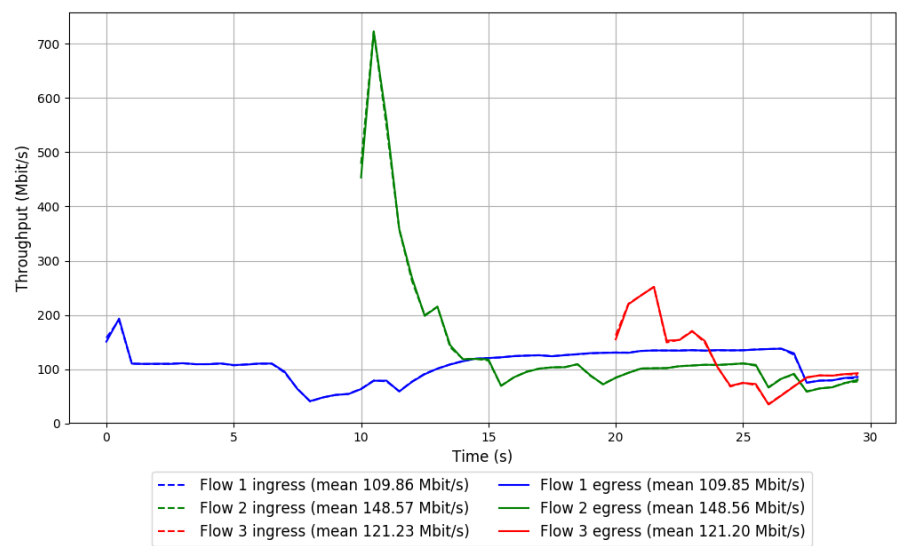
-- Flow 3:

Average throughput: 121.20 Mbit/s

95th percentile per-packet one-way delay: 17.683 ms

Loss rate: 0.02%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-03 22:08:38

End at: 2018-04-03 22:09:08

Local clock offset: 0.684 ms

Remote clock offset: 0.304 ms

Below is generated by plot.py at 2018-04-04 06:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.00 Mbit/s

95th percentile per-packet one-way delay: 75.369 ms

Loss rate: 10.87%

-- Flow 1:

Average throughput: 194.27 Mbit/s

95th percentile per-packet one-way delay: 39.554 ms

Loss rate: 10.64%

-- Flow 2:

Average throughput: 225.86 Mbit/s

95th percentile per-packet one-way delay: 98.511 ms

Loss rate: 10.95%

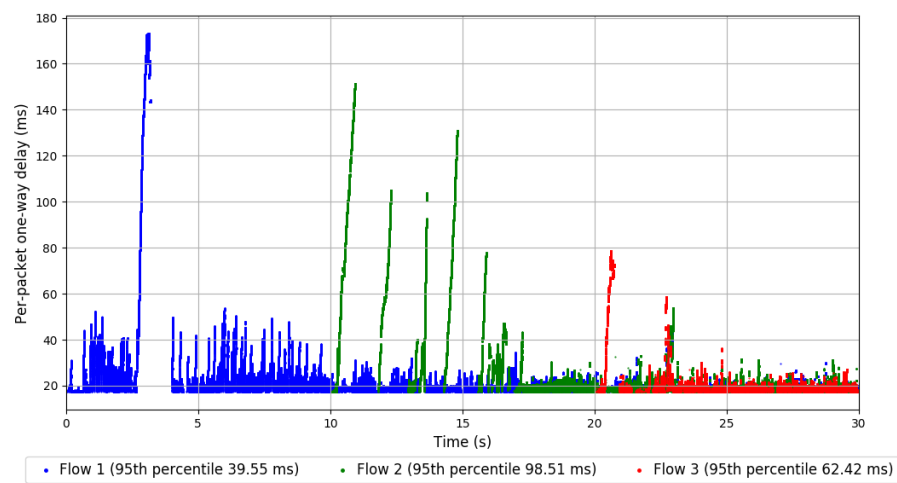
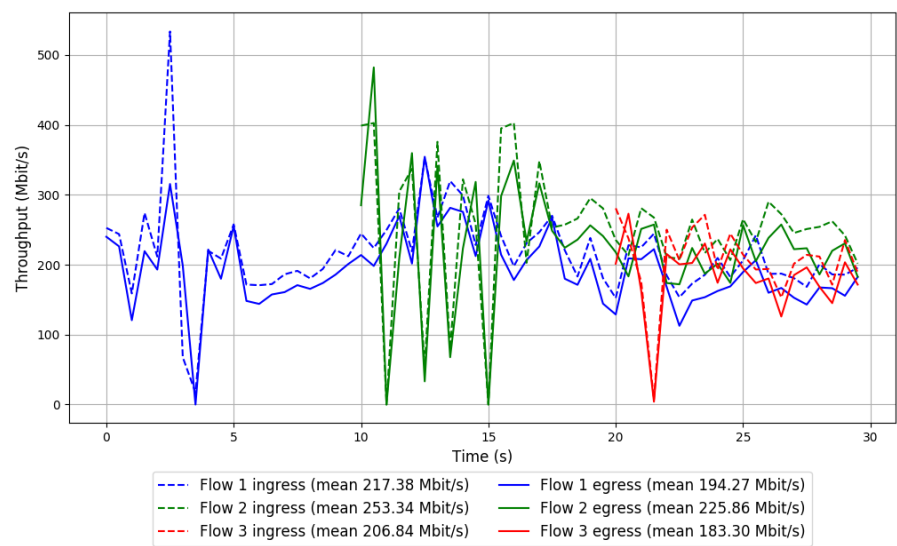
-- Flow 3:

Average throughput: 183.30 Mbit/s

95th percentile per-packet one-way delay: 62.417 ms

Loss rate: 11.39%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-03 22:37:31

End at: 2018-04-03 22:38:01

Local clock offset: 1.194 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-04-04 06:30:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 437.67 Mbit/s

95th percentile per-packet one-way delay: 25.611 ms

Loss rate: 9.02%

-- Flow 1:

Average throughput: 238.95 Mbit/s

95th percentile per-packet one-way delay: 24.761 ms

Loss rate: 7.48%

-- Flow 2:

Average throughput: 189.31 Mbit/s

95th percentile per-packet one-way delay: 29.293 ms

Loss rate: 10.03%

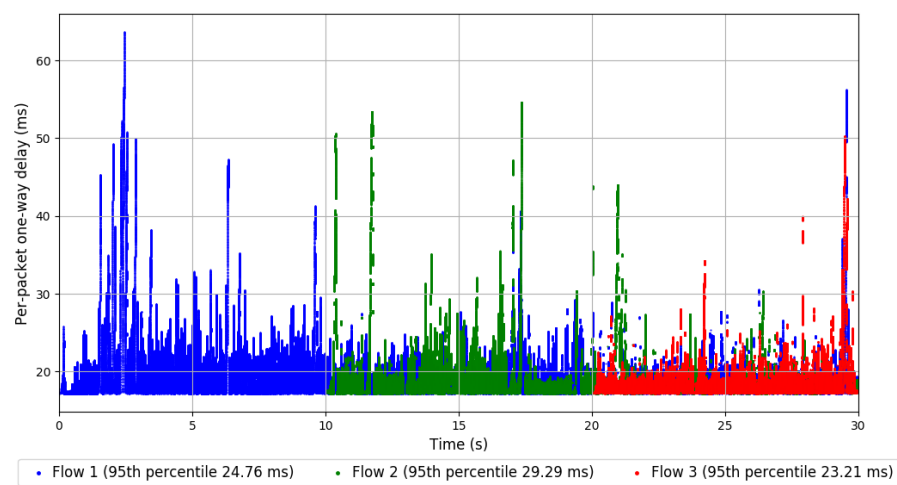
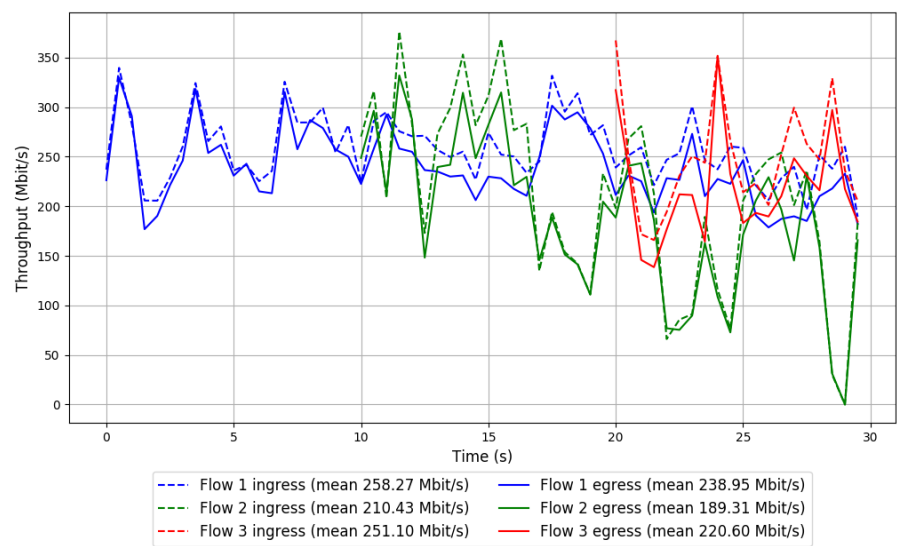
-- Flow 3:

Average throughput: 220.60 Mbit/s

95th percentile per-packet one-way delay: 23.214 ms

Loss rate: 12.14%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-03 23:06:22

End at: 2018-04-03 23:06:52

Local clock offset: 1.258 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-04-04 06:30:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 416.57 Mbit/s

95th percentile per-packet one-way delay: 29.091 ms

Loss rate: 16.34%

-- Flow 1:

Average throughput: 228.51 Mbit/s

95th percentile per-packet one-way delay: 28.641 ms

Loss rate: 13.72%

-- Flow 2:

Average throughput: 207.79 Mbit/s

95th percentile per-packet one-way delay: 29.961 ms

Loss rate: 18.83%

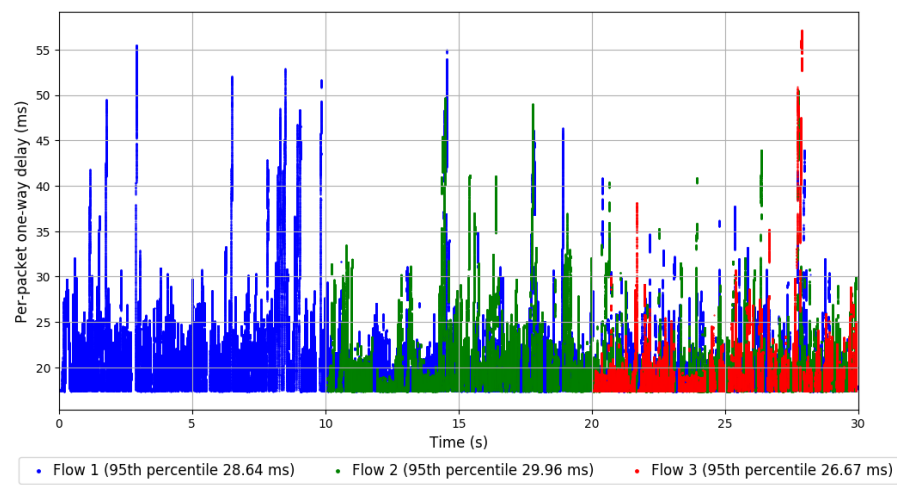
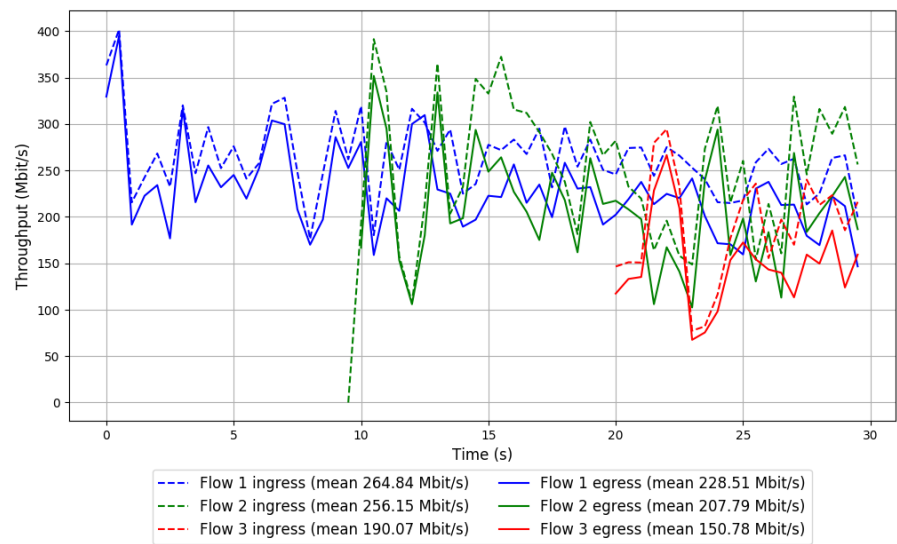
-- Flow 3:

Average throughput: 150.78 Mbit/s

95th percentile per-packet one-way delay: 26.674 ms

Loss rate: 20.66%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-03 23:34:45

End at: 2018-04-03 23:35:15

Local clock offset: 1.156 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-04-04 06:30:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 446.04 Mbit/s

95th percentile per-packet one-way delay: 28.410 ms

Loss rate: 15.13%

-- Flow 1:

Average throughput: 212.99 Mbit/s

95th percentile per-packet one-way delay: 30.451 ms

Loss rate: 13.75%

-- Flow 2:

Average throughput: 239.40 Mbit/s

95th percentile per-packet one-way delay: 27.551 ms

Loss rate: 15.29%

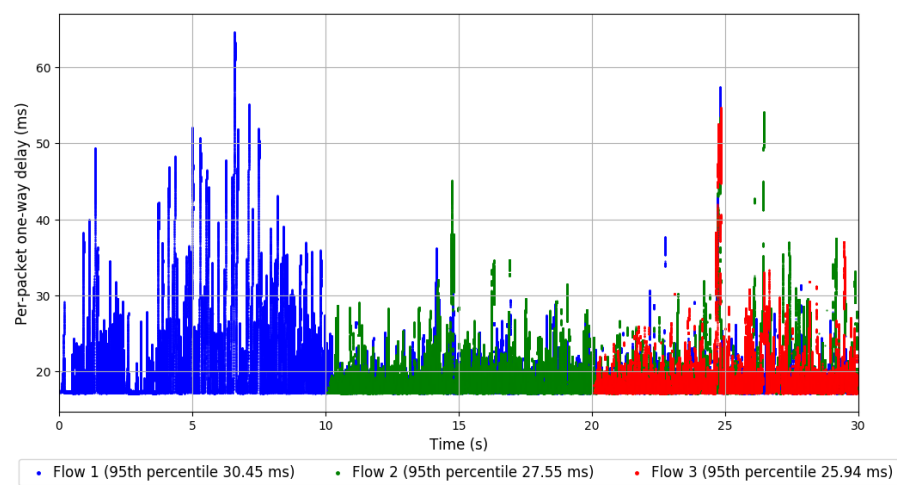
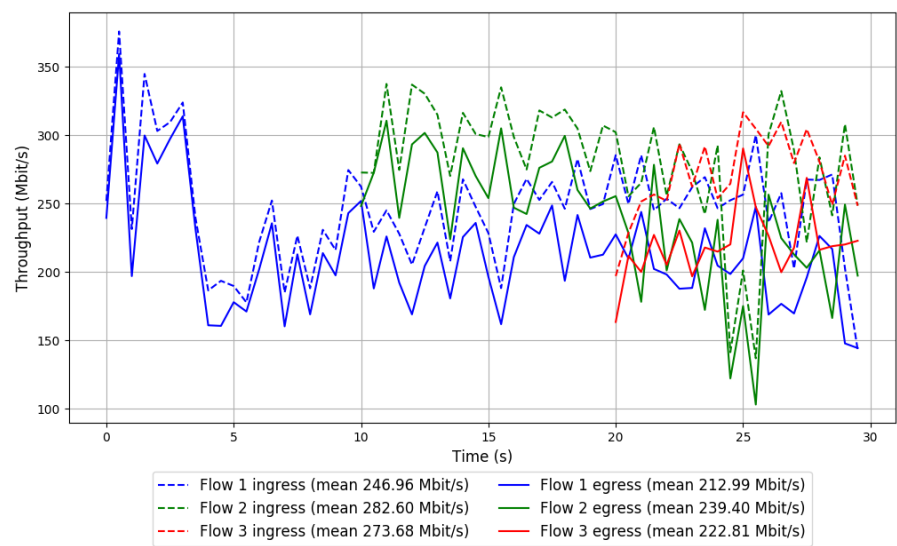
-- Flow 3:

Average throughput: 222.81 Mbit/s

95th percentile per-packet one-way delay: 25.943 ms

Loss rate: 18.56%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-04 00:03:36

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

Local clock offset: 0.685 ms

Remote clock offset: 0.517 ms

Below is generated by plot.py at 2018-04-04 06:31:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 448.45 Mbit/s

95th percentile per-packet one-way delay: 27.320 ms

Loss rate: 12.29%

-- Flow 1:

Average throughput: 219.87 Mbit/s

95th percentile per-packet one-way delay: 27.708 ms

Loss rate: 11.22%

-- Flow 2:

Average throughput: 262.29 Mbit/s

95th percentile per-packet one-way delay: 26.859 ms

Loss rate: 12.59%

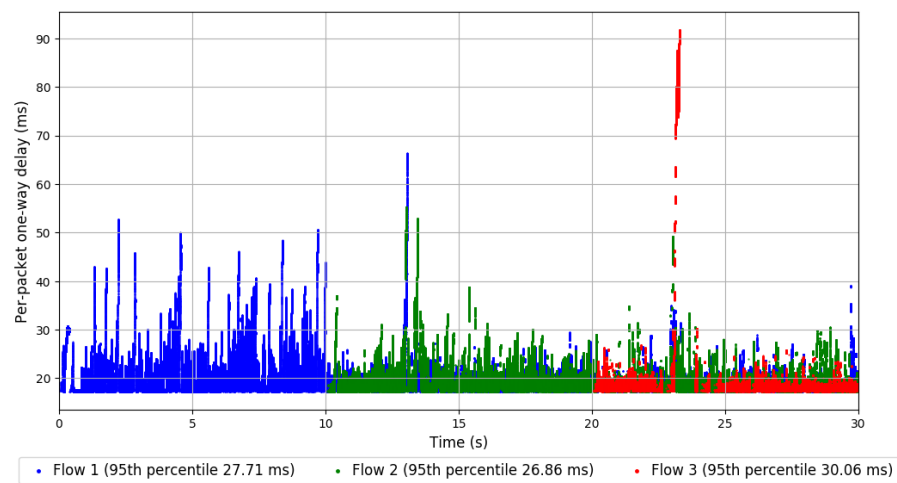
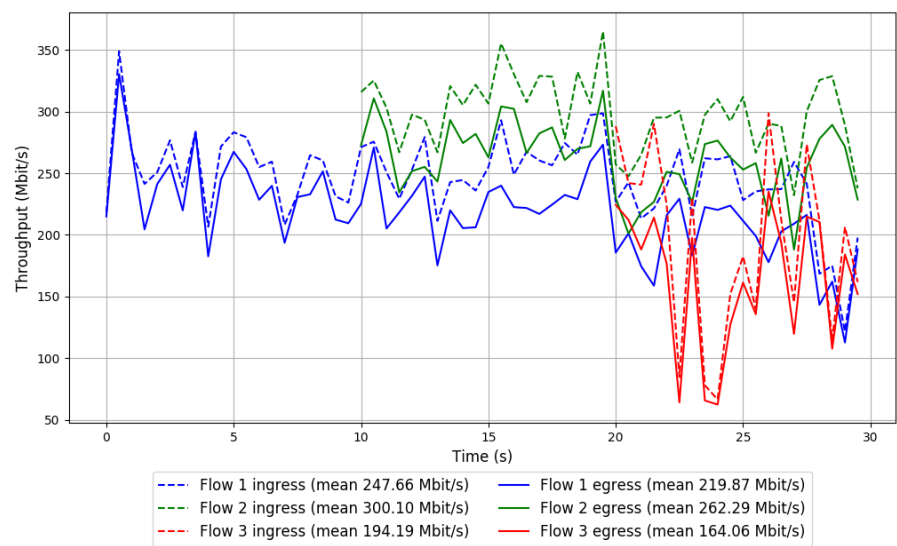
-- Flow 3:

Average throughput: 164.06 Mbit/s

95th percentile per-packet one-way delay: 30.057 ms

Loss rate: 15.50%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-04 00:32:15

End at: 2018-04-04 00:32:45

Local clock offset: 0.214 ms

Remote clock offset: 0.453 ms

Below is generated by plot.py at 2018-04-04 06:32:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.75 Mbit/s

95th percentile per-packet one-way delay: 35.534 ms

Loss rate: 15.27%

-- Flow 1:

Average throughput: 195.73 Mbit/s

95th percentile per-packet one-way delay: 45.527 ms

Loss rate: 15.45%

-- Flow 2:

Average throughput: 231.50 Mbit/s

95th percentile per-packet one-way delay: 29.600 ms

Loss rate: 15.61%

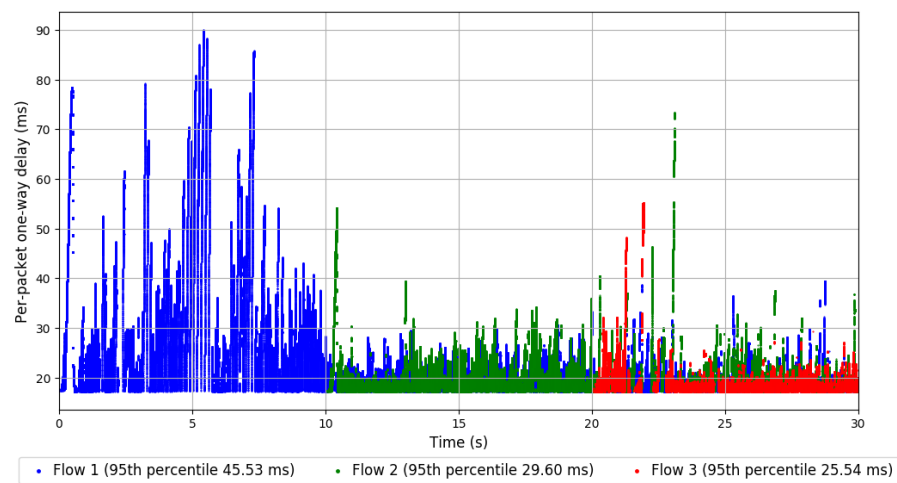
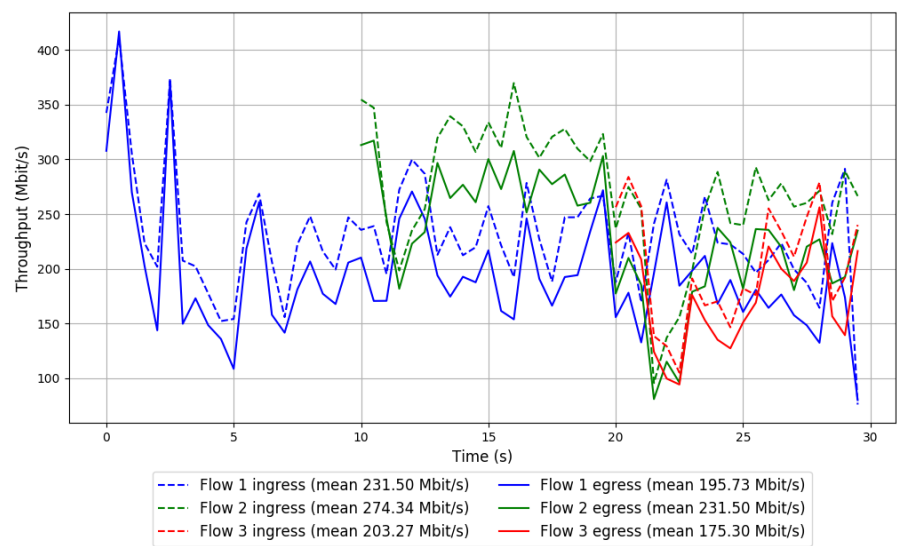
-- Flow 3:

Average throughput: 175.30 Mbit/s

95th percentile per-packet one-way delay: 25.538 ms

Loss rate: 13.73%

Run 6: Report of Verus — Data Link

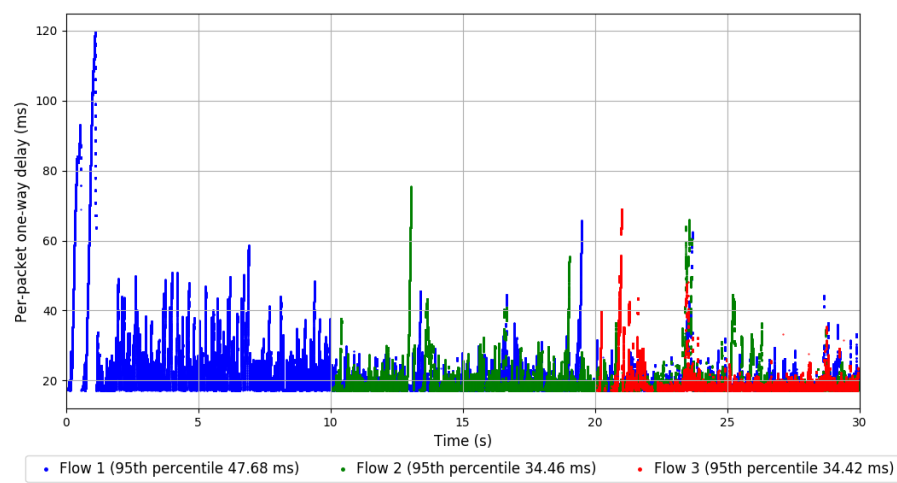
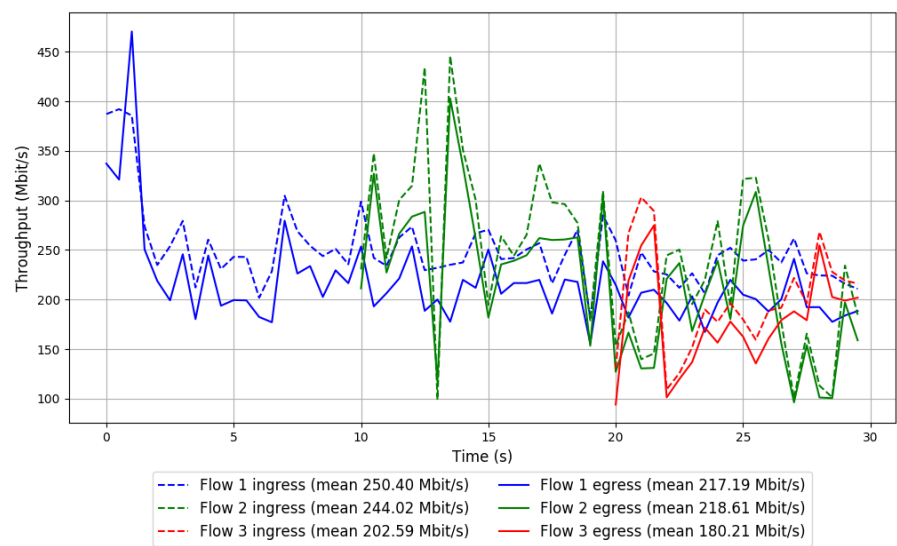


Run 7: Statistics of Verus

Start at: 2018-04-04 01:01:09
End at: 2018-04-04 01:01:39
Local clock offset: -0.097 ms
Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-04-04 06:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 422.22 Mbit/s
95th percentile per-packet one-way delay: 39.703 ms
Loss rate: 11.98%
-- Flow 1:
Average throughput: 217.19 Mbit/s
95th percentile per-packet one-way delay: 47.678 ms
Loss rate: 13.25%
-- Flow 2:
Average throughput: 218.61 Mbit/s
95th percentile per-packet one-way delay: 34.458 ms
Loss rate: 10.42%
-- Flow 3:
Average throughput: 180.21 Mbit/s
95th percentile per-packet one-way delay: 34.425 ms
Loss rate: 10.99%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-04 01:30:00

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

Local clock offset: 0.184 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-04-04 06:35:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.46 Mbit/s

95th percentile per-packet one-way delay: 40.042 ms

Loss rate: 12.21%

-- Flow 1:

Average throughput: 190.01 Mbit/s

95th percentile per-packet one-way delay: 47.321 ms

Loss rate: 11.98%

-- Flow 2:

Average throughput: 184.24 Mbit/s

95th percentile per-packet one-way delay: 30.462 ms

Loss rate: 10.50%

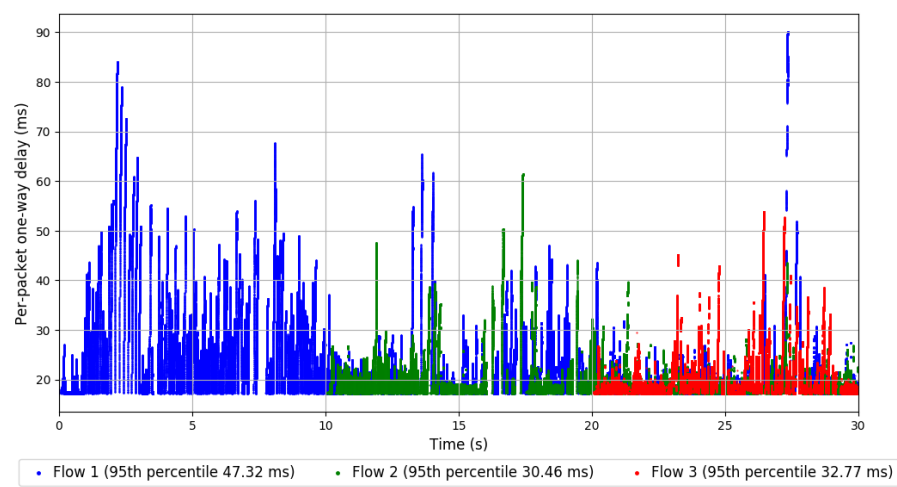
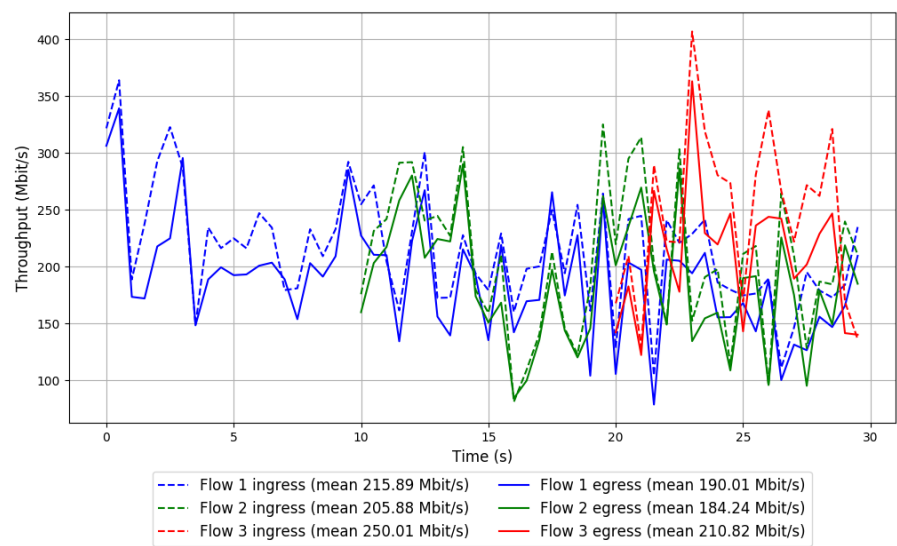
-- Flow 3:

Average throughput: 210.82 Mbit/s

95th percentile per-packet one-way delay: 32.772 ms

Loss rate: 15.66%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-04 01:58:48

End at: 2018-04-04 01:59:18

Local clock offset: 0.094 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-04-04 06:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 451.73 Mbit/s

95th percentile per-packet one-way delay: 32.738 ms

Loss rate: 14.48%

-- Flow 1:

Average throughput: 233.21 Mbit/s

95th percentile per-packet one-way delay: 33.762 ms

Loss rate: 15.14%

-- Flow 2:

Average throughput: 236.97 Mbit/s

95th percentile per-packet one-way delay: 33.070 ms

Loss rate: 13.10%

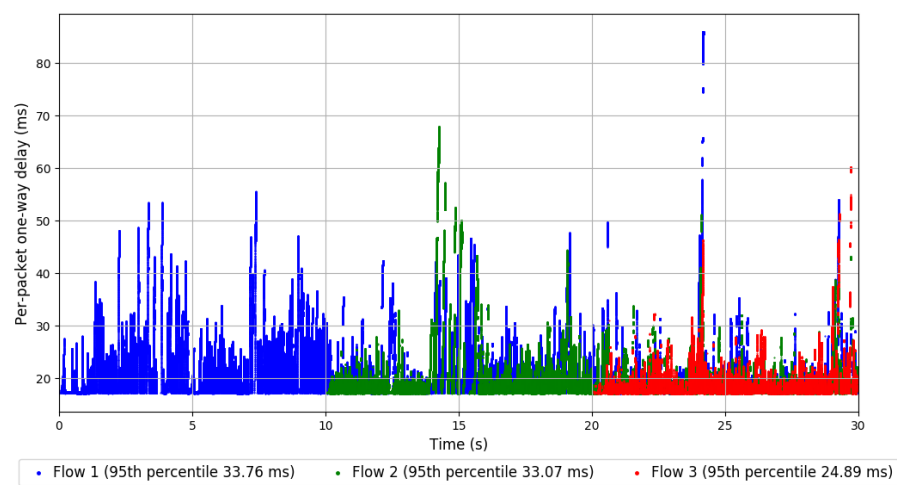
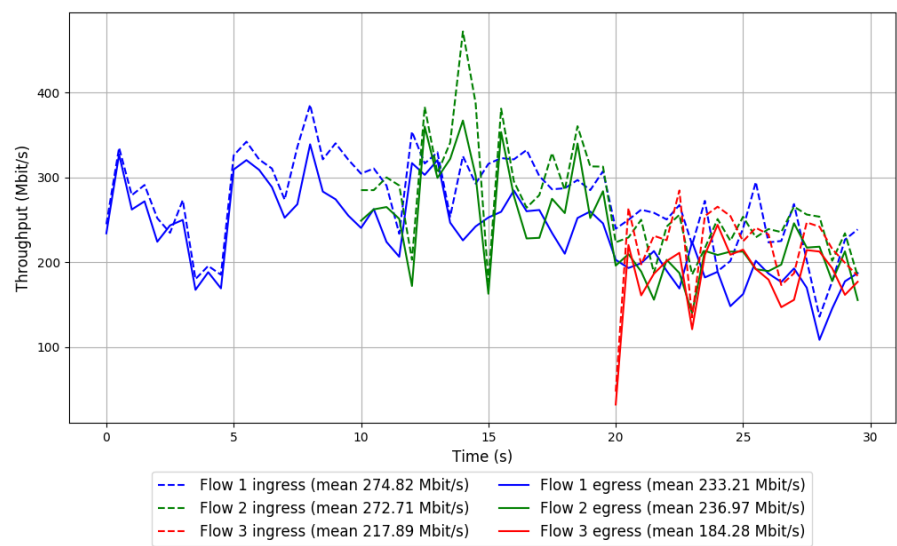
-- Flow 3:

Average throughput: 184.28 Mbit/s

95th percentile per-packet one-way delay: 24.885 ms

Loss rate: 15.41%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-04 02:27:52

End at: 2018-04-04 02:28:22

Local clock offset: 0.574 ms

Remote clock offset: 0.467 ms

Below is generated by plot.py at 2018-04-04 06:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.64 Mbit/s

95th percentile per-packet one-way delay: 44.239 ms

Loss rate: 11.95%

-- Flow 1:

Average throughput: 199.04 Mbit/s

95th percentile per-packet one-way delay: 46.766 ms

Loss rate: 13.66%

-- Flow 2:

Average throughput: 231.99 Mbit/s

95th percentile per-packet one-way delay: 24.256 ms

Loss rate: 10.09%

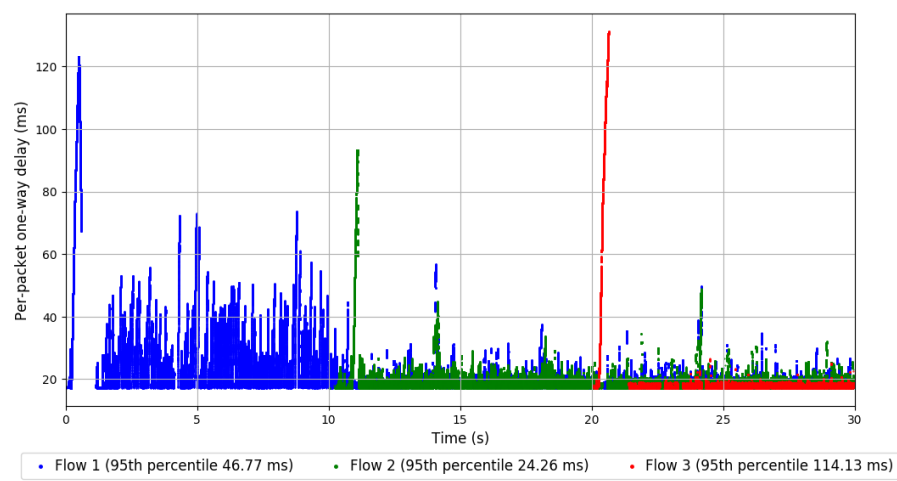
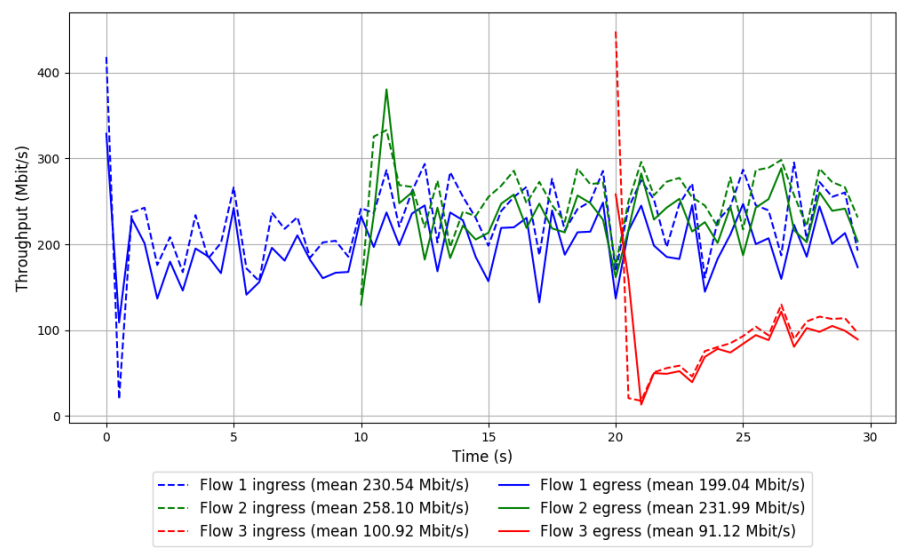
-- Flow 3:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 114.128 ms

Loss rate: 9.66%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-03 22:03:24

End at: 2018-04-03 22:03:54

Local clock offset: 0.802 ms

Remote clock offset: 0.364 ms

Below is generated by plot.py at 2018-04-04 06:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.83 Mbit/s

95th percentile per-packet one-way delay: 17.477 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 112.96 Mbit/s

95th percentile per-packet one-way delay: 17.441 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 117.50 Mbit/s

95th percentile per-packet one-way delay: 17.497 ms

Loss rate: 0.01%

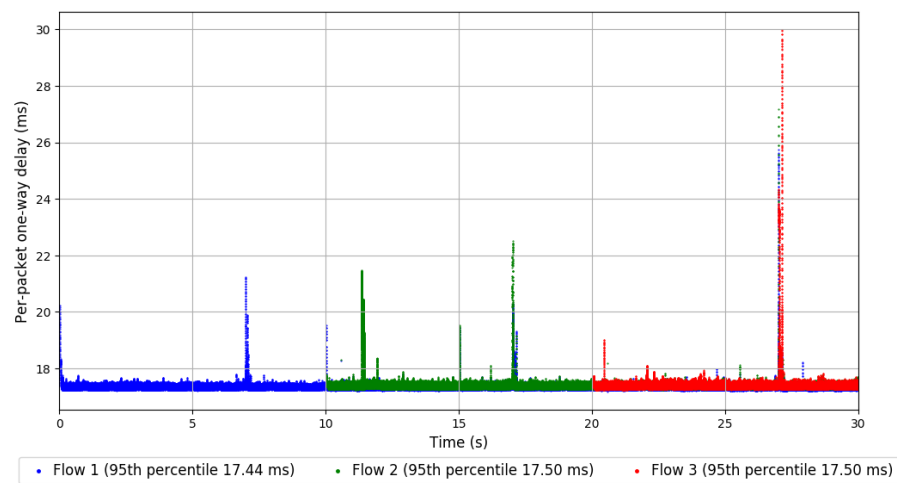
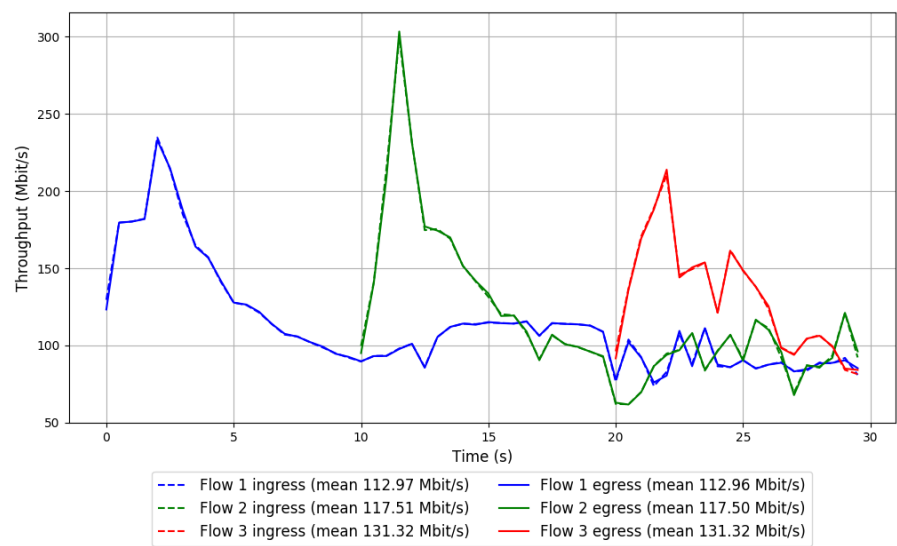
-- Flow 3:

Average throughput: 131.32 Mbit/s

95th percentile per-packet one-way delay: 17.502 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-03 22:32:12

End at: 2018-04-03 22:32:42

Local clock offset: 1.092 ms

Remote clock offset: 0.146 ms

Below is generated by plot.py at 2018-04-04 06:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.24 Mbit/s

95th percentile per-packet one-way delay: 17.473 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 112.90 Mbit/s

95th percentile per-packet one-way delay: 17.455 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 102.71 Mbit/s

95th percentile per-packet one-way delay: 17.470 ms

Loss rate: 0.01%

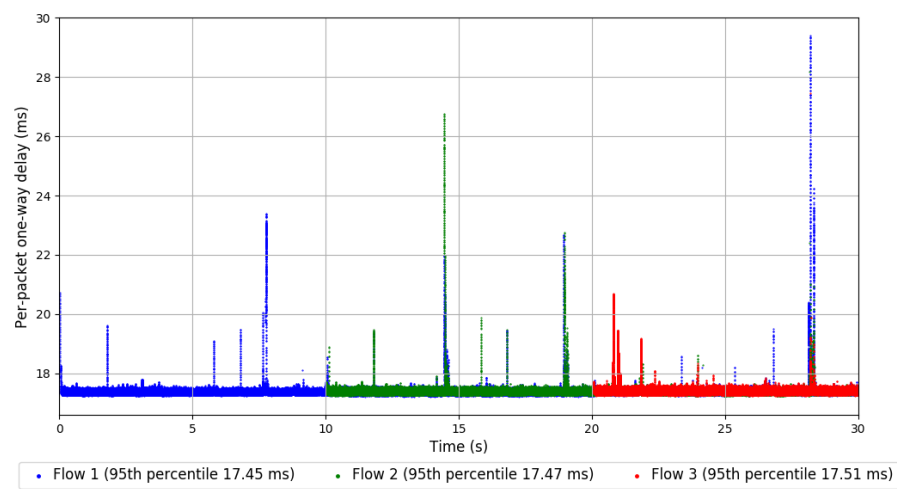
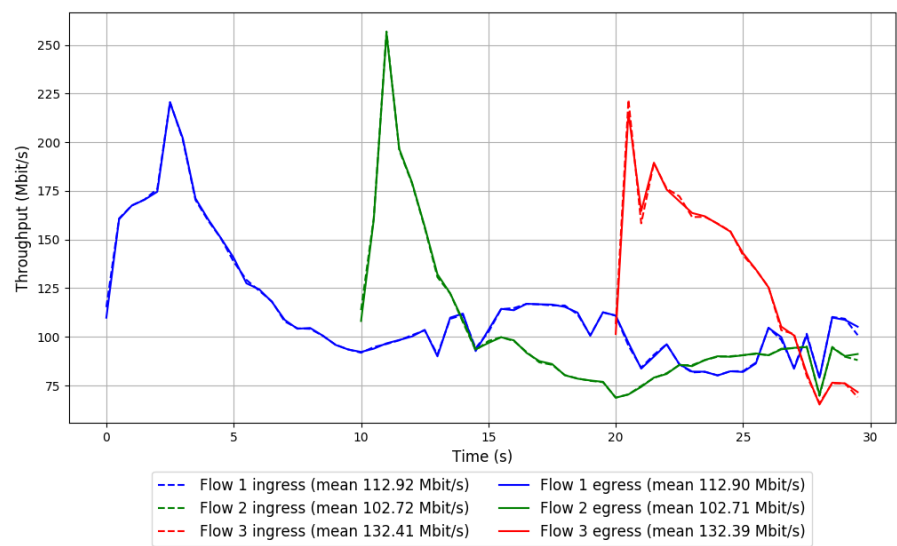
-- Flow 3:

Average throughput: 132.39 Mbit/s

95th percentile per-packet one-way delay: 17.508 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-03 23:01:09

End at: 2018-04-03 23:01:39

Local clock offset: 1.381 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-04-04 06:37:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.78 Mbit/s

95th percentile per-packet one-way delay: 17.487 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 112.51 Mbit/s

95th percentile per-packet one-way delay: 17.486 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 111.90 Mbit/s

95th percentile per-packet one-way delay: 17.460 ms

Loss rate: 0.00%

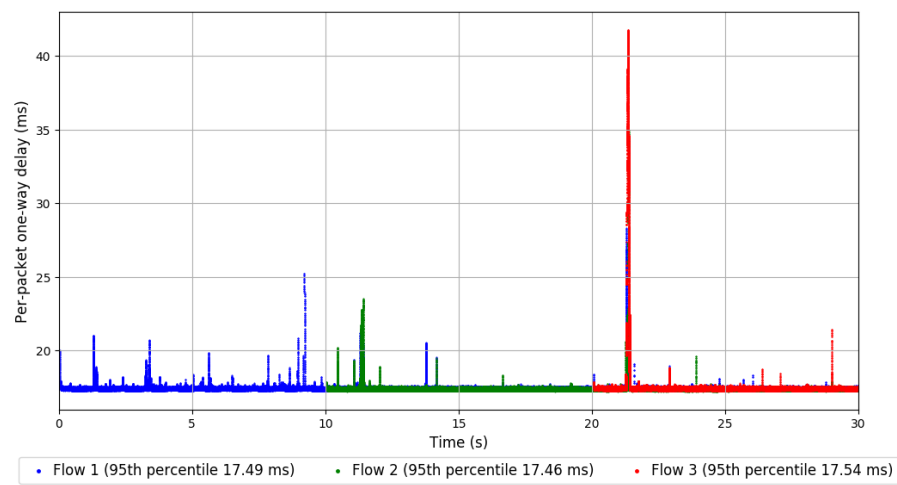
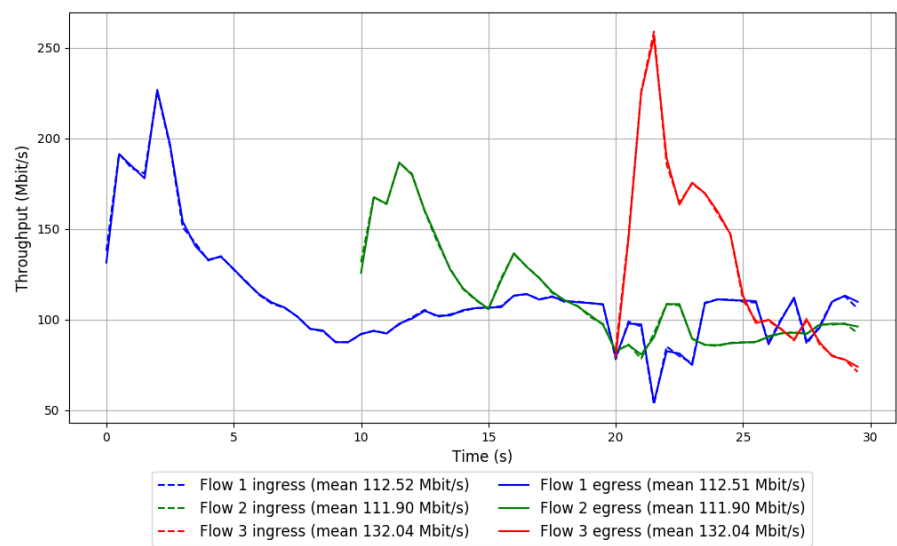
-- Flow 3:

Average throughput: 132.04 Mbit/s

95th percentile per-packet one-way delay: 17.537 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-03 23:29:27

End at: 2018-04-03 23:29:57

Local clock offset: 1.447 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2018-04-04 06:38:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.17 Mbit/s

95th percentile per-packet one-way delay: 17.307 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 115.30 Mbit/s

95th percentile per-packet one-way delay: 17.305 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 109.19 Mbit/s

95th percentile per-packet one-way delay: 17.288 ms

Loss rate: 0.01%

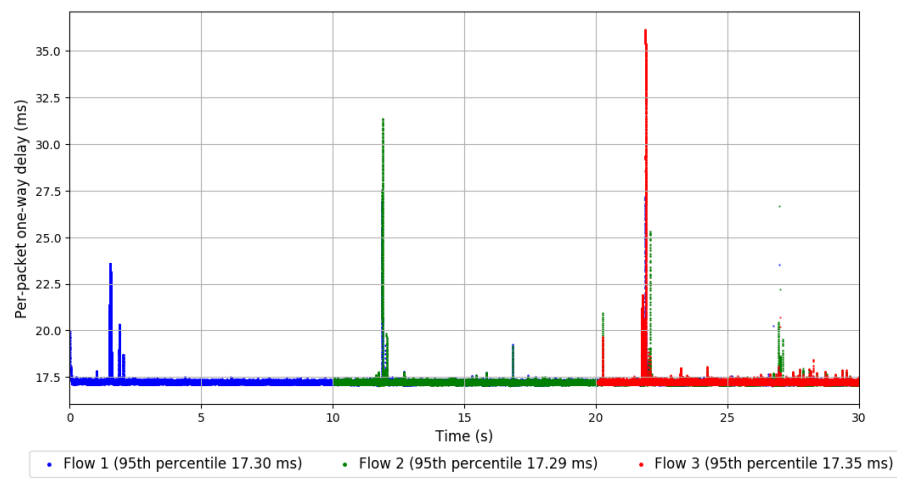
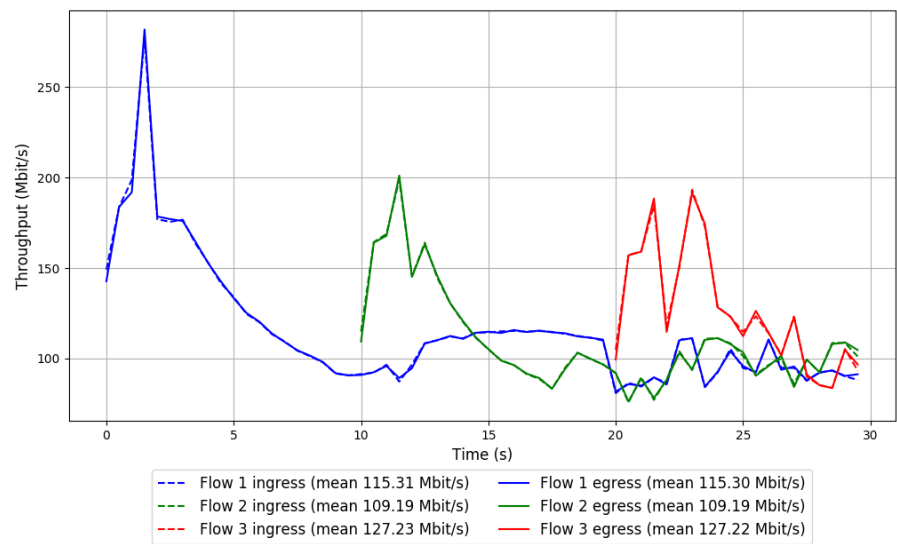
-- Flow 3:

Average throughput: 127.22 Mbit/s

95th percentile per-packet one-way delay: 17.350 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-03 23:58:16

End at: 2018-04-03 23:58:46

Local clock offset: 0.731 ms

Remote clock offset: 0.446 ms

Below is generated by plot.py at 2018-04-04 06:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.03 Mbit/s

95th percentile per-packet one-way delay: 17.454 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 114.78 Mbit/s

95th percentile per-packet one-way delay: 17.446 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.67 Mbit/s

95th percentile per-packet one-way delay: 17.471 ms

Loss rate: 0.01%

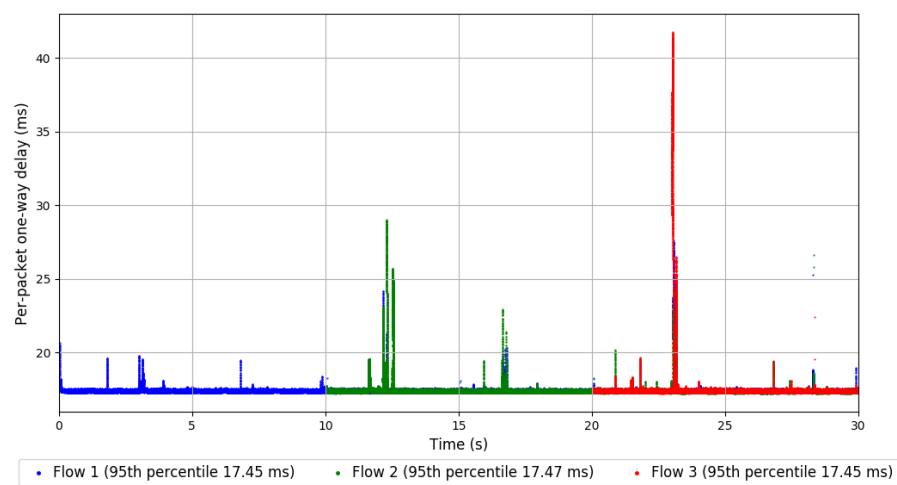
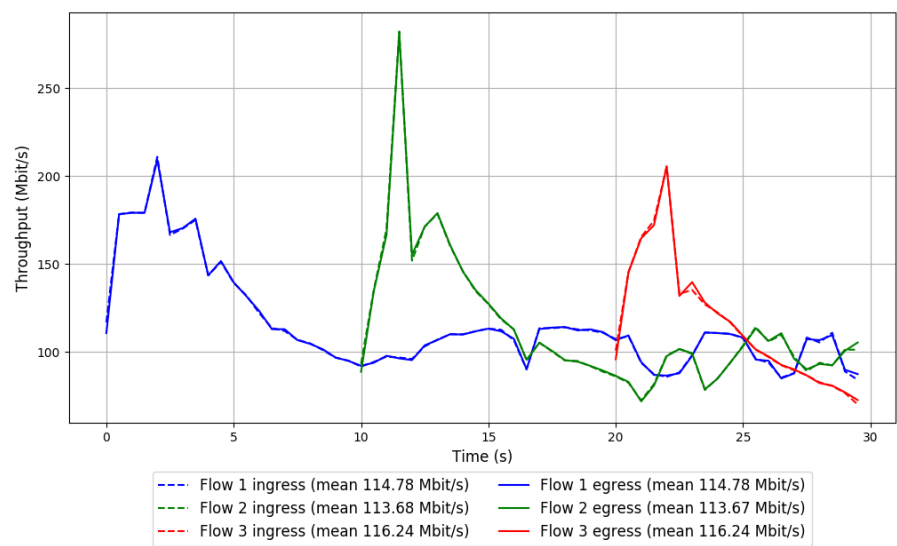
-- Flow 3:

Average throughput: 116.24 Mbit/s

95th percentile per-packet one-way delay: 17.451 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-04 00:26:57

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

Local clock offset: 0.317 ms

Remote clock offset: 0.493 ms

Below is generated by plot.py at 2018-04-04 06:42:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.17 Mbit/s

95th percentile per-packet one-way delay: 17.454 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 118.35 Mbit/s

95th percentile per-packet one-way delay: 17.445 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 118.12 Mbit/s

95th percentile per-packet one-way delay: 17.426 ms

Loss rate: 0.03%

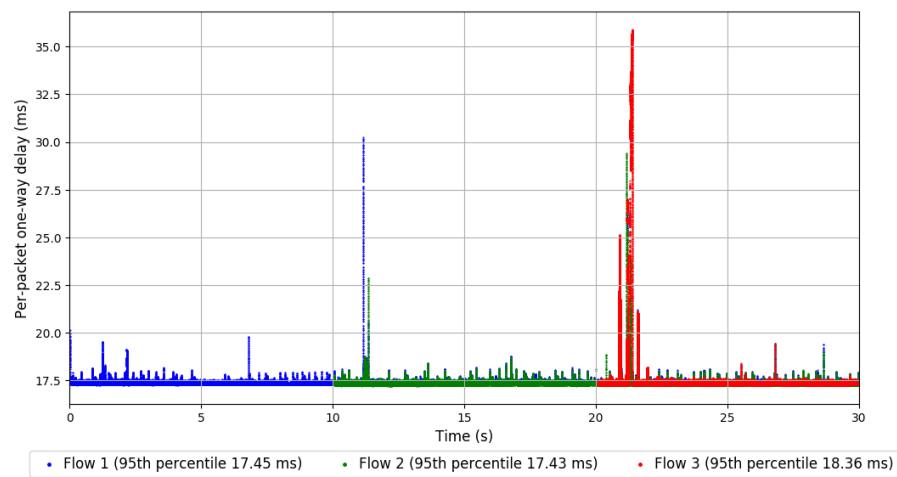
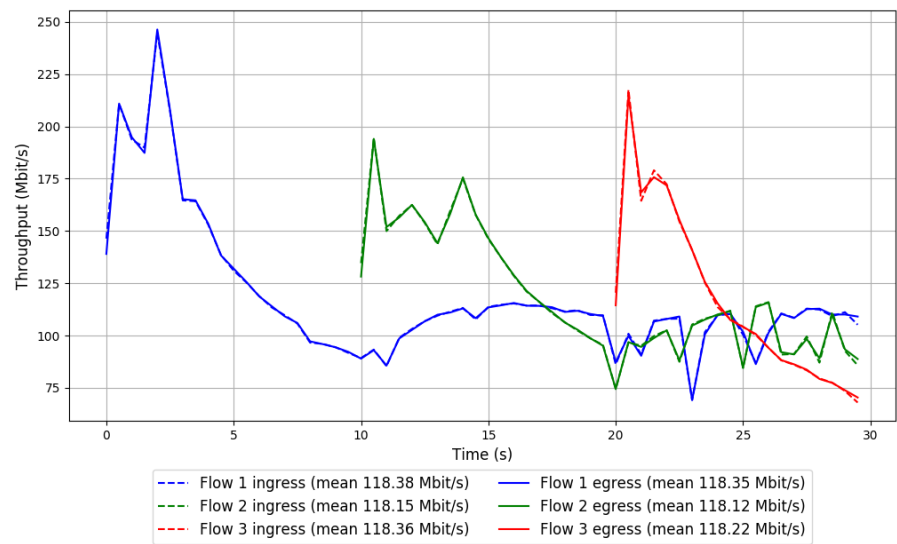
-- Flow 3:

Average throughput: 118.22 Mbit/s

95th percentile per-packet one-way delay: 18.355 ms

Loss rate: 0.12%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-04 00:55:51

End at: 2018-04-04 00:56:21

Local clock offset: 0.113 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2018-04-04 06:43:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.18 Mbit/s

95th percentile per-packet one-way delay: 17.371 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 116.30 Mbit/s

95th percentile per-packet one-way delay: 17.352 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.08 Mbit/s

95th percentile per-packet one-way delay: 17.366 ms

Loss rate: 0.01%

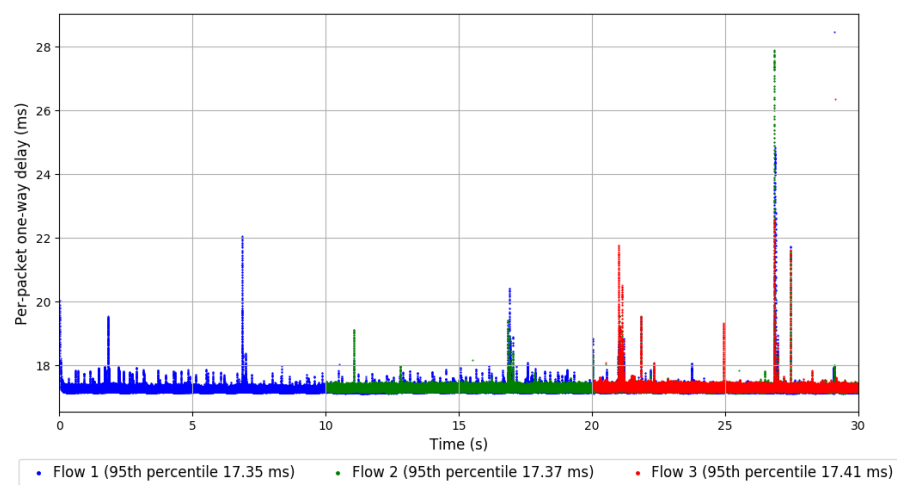
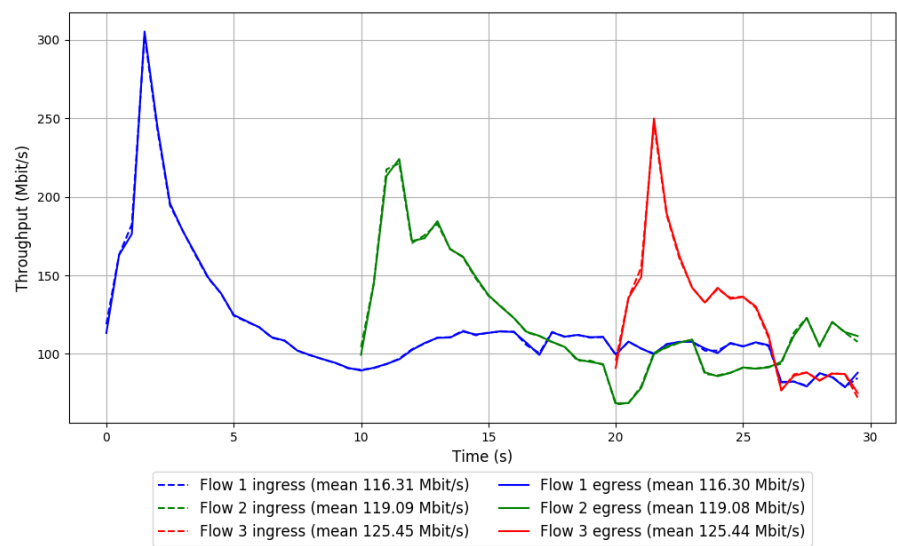
-- Flow 3:

Average throughput: 125.44 Mbit/s

95th percentile per-packet one-way delay: 17.410 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-04 01:24:38

End at: 2018-04-04 01:25:08

Local clock offset: 0.223 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-04-04 06:43:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.46 Mbit/s

95th percentile per-packet one-way delay: 17.420 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.75 Mbit/s

95th percentile per-packet one-way delay: 17.414 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 111.34 Mbit/s

95th percentile per-packet one-way delay: 17.414 ms

Loss rate: 0.01%

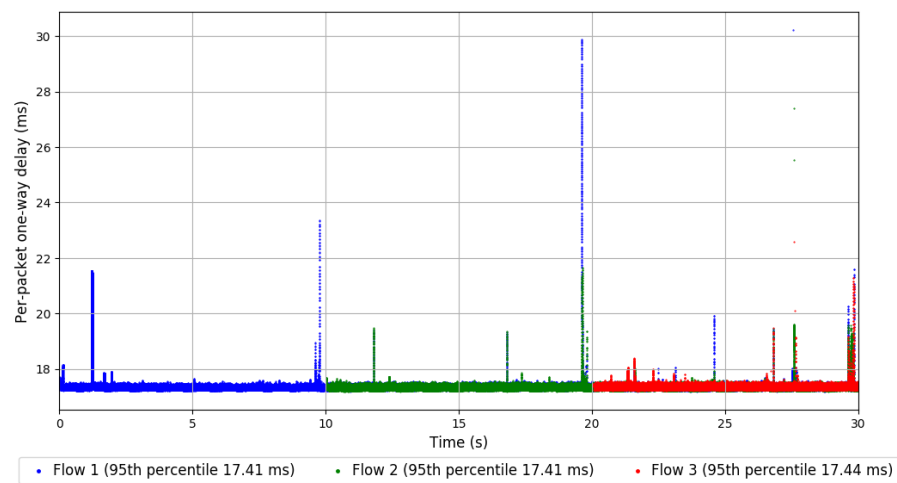
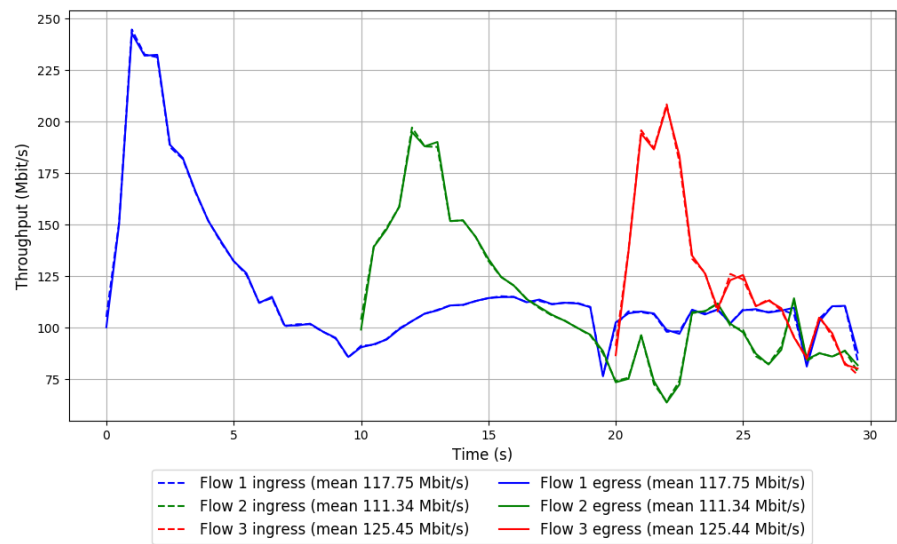
-- Flow 3:

Average throughput: 125.44 Mbit/s

95th percentile per-packet one-way delay: 17.441 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-04 01:53:28

End at: 2018-04-04 01:53:58

Local clock offset: 0.108 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-04-04 06:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.74 Mbit/s

95th percentile per-packet one-way delay: 17.351 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 113.15 Mbit/s

95th percentile per-packet one-way delay: 17.340 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 121.14 Mbit/s

95th percentile per-packet one-way delay: 17.340 ms

Loss rate: 0.01%

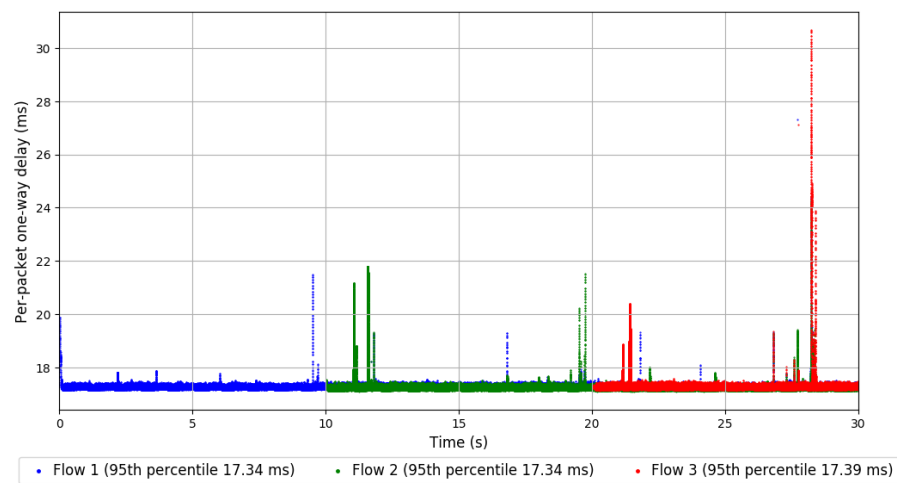
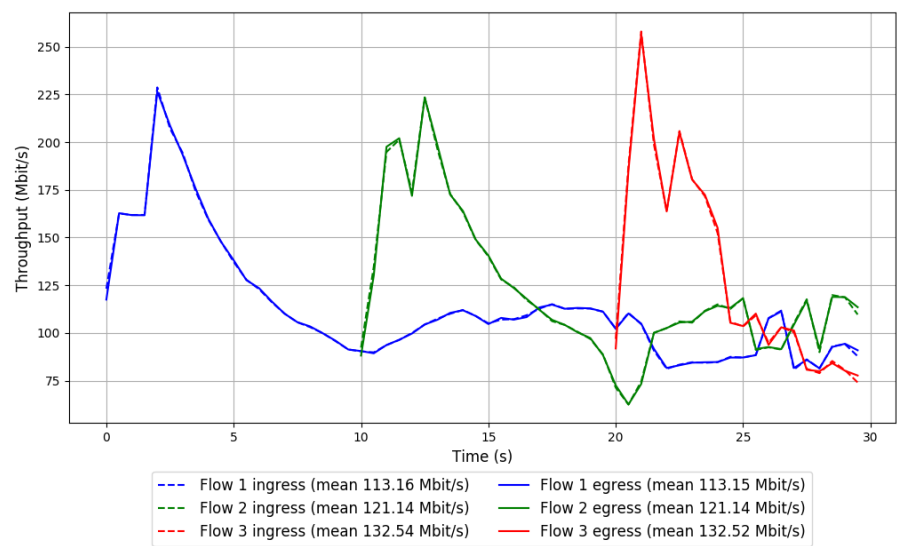
-- Flow 3:

Average throughput: 132.52 Mbit/s

95th percentile per-packet one-way delay: 17.395 ms

Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-04 02:22:34

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

Local clock offset: 0.558 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-04-04 06:43:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.56 Mbit/s

95th percentile per-packet one-way delay: 17.339 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 116.66 Mbit/s

95th percentile per-packet one-way delay: 17.316 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 113.99 Mbit/s

95th percentile per-packet one-way delay: 17.358 ms

Loss rate: 0.00%

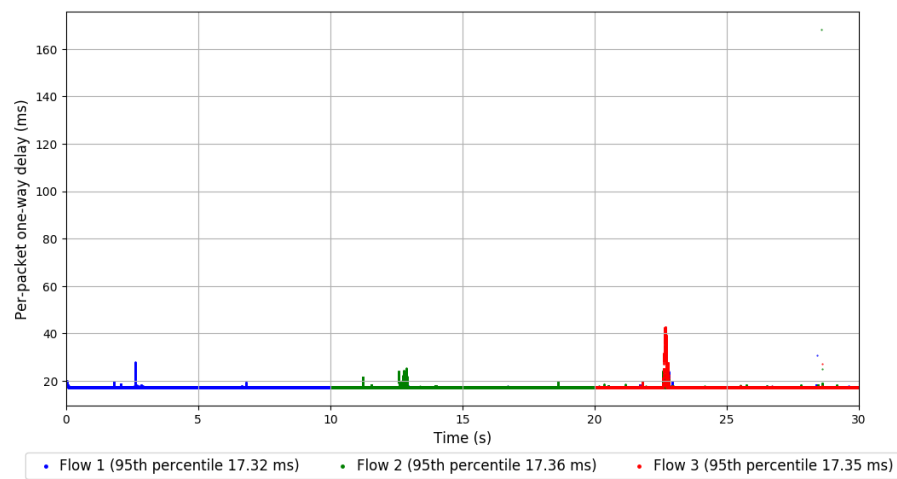
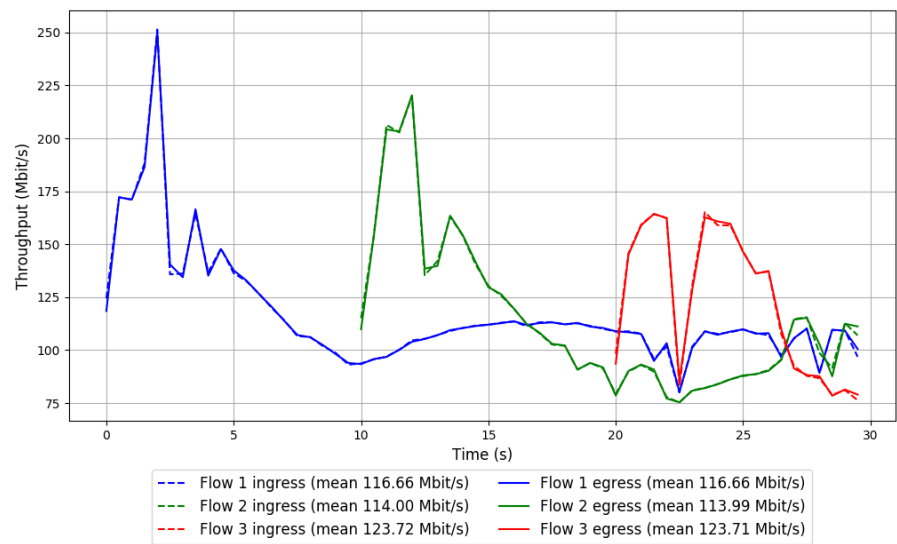
-- Flow 3:

Average throughput: 123.71 Mbit/s

95th percentile per-packet one-way delay: 17.352 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-03 21:58:50

End at: 2018-04-03 21:59:20

Local clock offset: 0.828 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-04-04 06:44:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.29 Mbit/s

95th percentile per-packet one-way delay: 137.342 ms

Loss rate: 16.83%

-- Flow 1:

Average throughput: 48.43 Mbit/s

95th percentile per-packet one-way delay: 113.570 ms

Loss rate: 9.89%

-- Flow 2:

Average throughput: 430.79 Mbit/s

95th percentile per-packet one-way delay: 135.801 ms

Loss rate: 15.53%

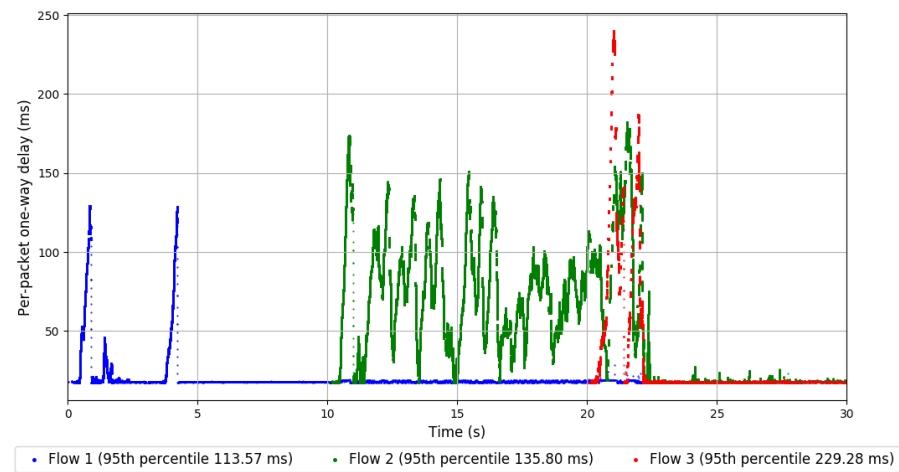
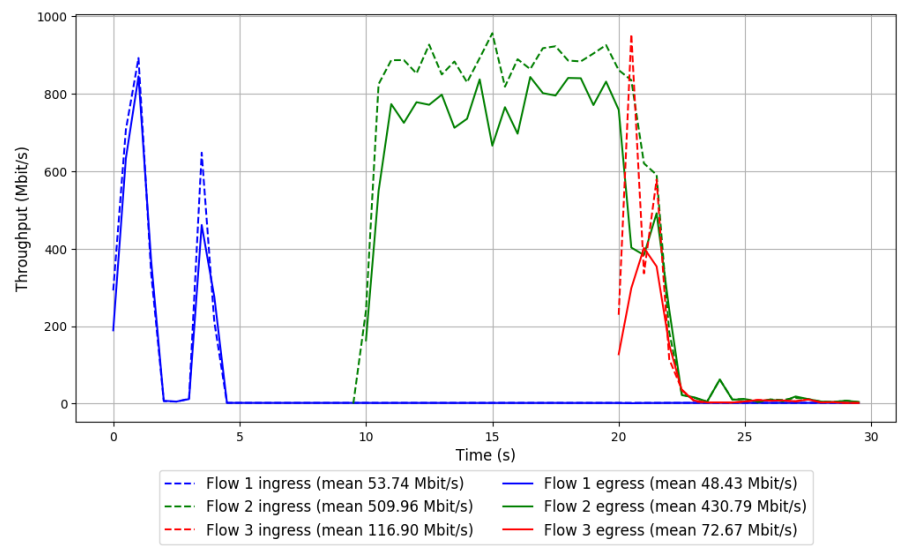
-- Flow 3:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 229.281 ms

Loss rate: 37.84%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-03 22:27:37

End at: 2018-04-03 22:28:07

Local clock offset: 0.908 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-04-04 06:45:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.71 Mbit/s

95th percentile per-packet one-way delay: 165.765 ms

Loss rate: 19.69%

-- Flow 1:

Average throughput: 282.65 Mbit/s

95th percentile per-packet one-way delay: 159.735 ms

Loss rate: 15.70%

-- Flow 2:

Average throughput: 42.43 Mbit/s

95th percentile per-packet one-way delay: 171.824 ms

Loss rate: 35.97%

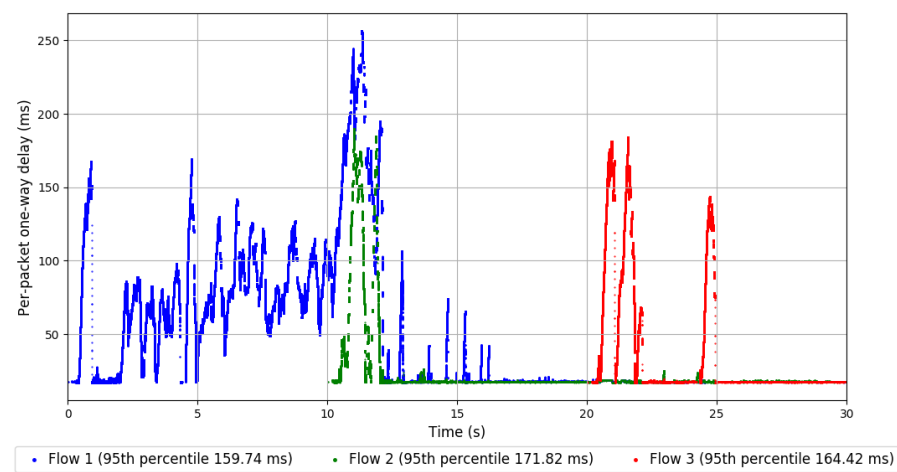
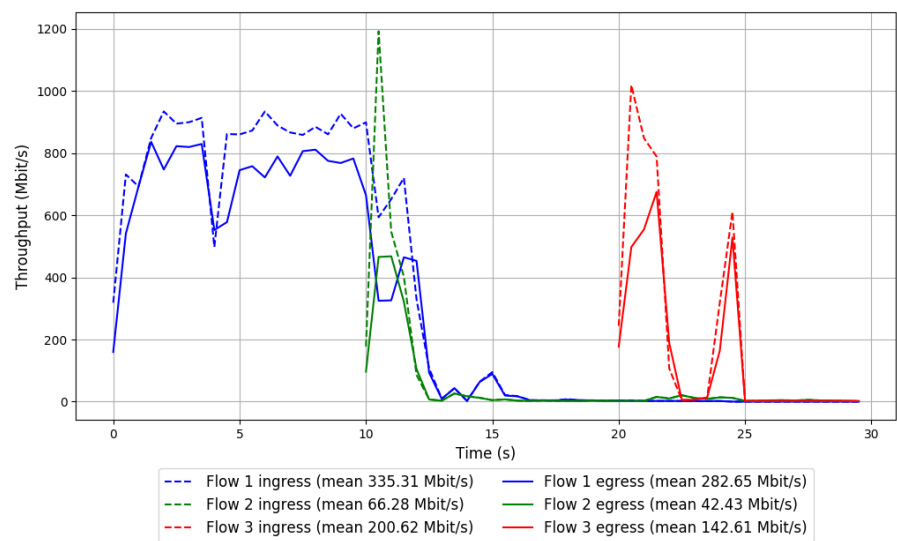
-- Flow 3:

Average throughput: 142.61 Mbit/s

95th percentile per-packet one-way delay: 164.421 ms

Loss rate: 28.92%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-03 22:56:27

End at: 2018-04-03 22:56:57

Local clock offset: 1.464 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-04-04 06:49:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 538.77 Mbit/s

95th percentile per-packet one-way delay: 135.494 ms

Loss rate: 17.62%

-- Flow 1:

Average throughput: 273.68 Mbit/s

95th percentile per-packet one-way delay: 144.461 ms

Loss rate: 19.07%

-- Flow 2:

Average throughput: 49.48 Mbit/s

95th percentile per-packet one-way delay: 56.423 ms

Loss rate: 26.15%

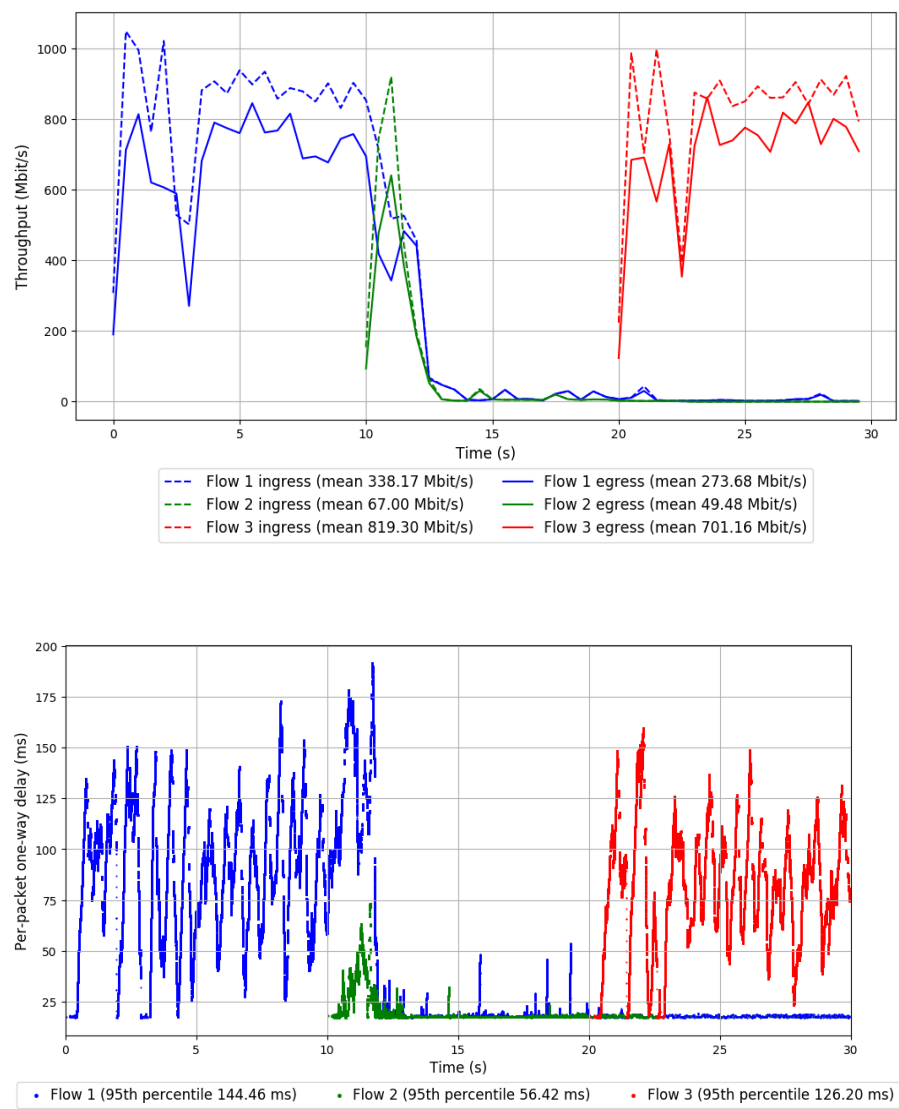
-- Flow 3:

Average throughput: 701.16 Mbit/s

95th percentile per-packet one-way delay: 126.196 ms

Loss rate: 14.42%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-03 23:24:53

End at: 2018-04-03 23:25:23

Local clock offset: 1.467 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-04-04 06:49:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.26 Mbit/s

95th percentile per-packet one-way delay: 147.322 ms

Loss rate: 18.14%

-- Flow 1:

Average throughput: 290.88 Mbit/s

95th percentile per-packet one-way delay: 151.905 ms

Loss rate: 14.41%

-- Flow 2:

Average throughput: 43.36 Mbit/s

95th percentile per-packet one-way delay: 110.022 ms

Loss rate: 35.08%

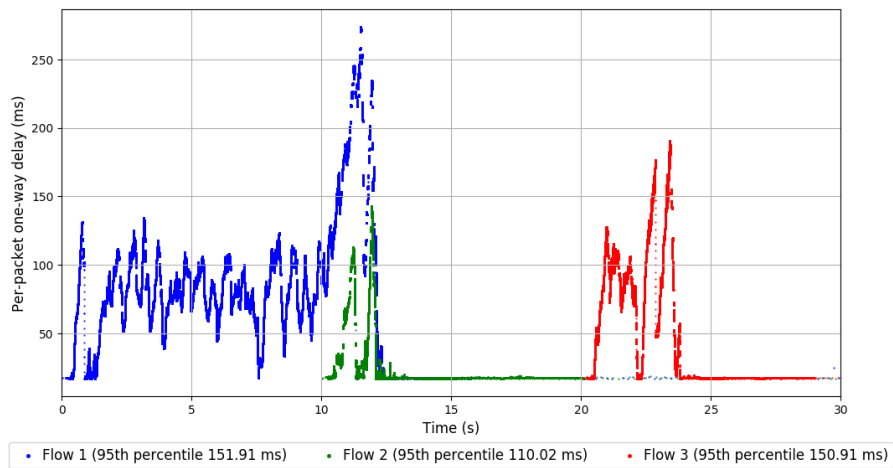
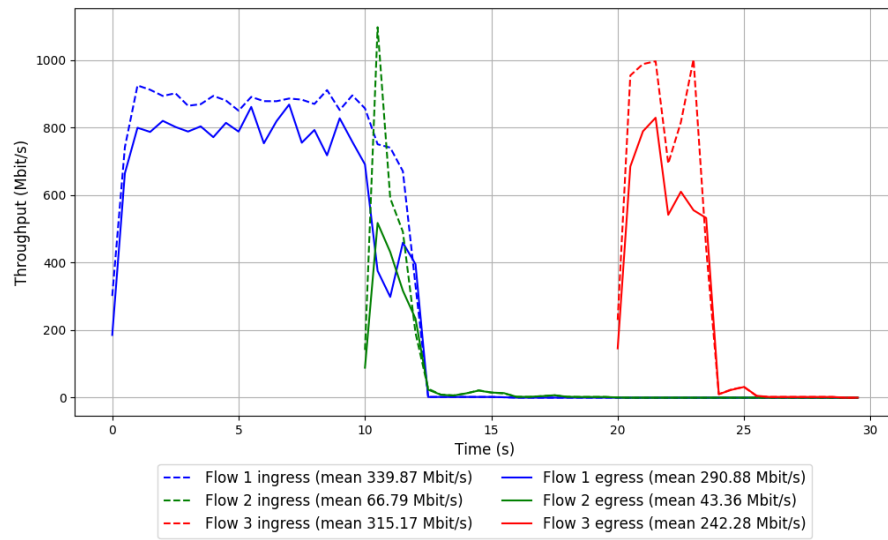
-- Flow 3:

Average throughput: 242.28 Mbit/s

95th percentile per-packet one-way delay: 150.909 ms

Loss rate: 23.13%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-03 23:53:33

End at: 2018-04-03 23:54:03

Local clock offset: 0.848 ms

Remote clock offset: 0.489 ms

Below is generated by plot.py at 2018-04-04 06:52:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 568.17 Mbit/s

95th percentile per-packet one-way delay: 131.086 ms

Loss rate: 15.64%

-- Flow 1:

Average throughput: 286.24 Mbit/s

95th percentile per-packet one-way delay: 137.513 ms

Loss rate: 16.48%

-- Flow 2:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 172.474 ms

Loss rate: 23.20%

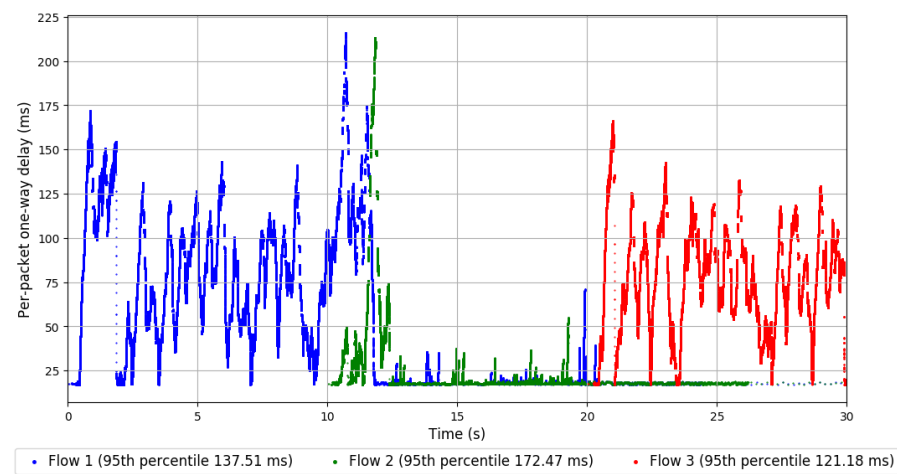
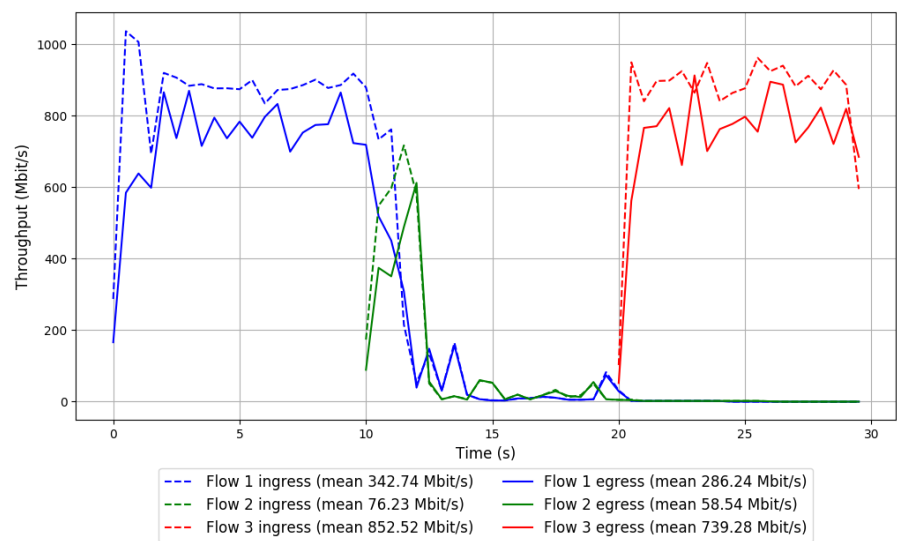
-- Flow 3:

Average throughput: 739.28 Mbit/s

95th percentile per-packet one-way delay: 121.181 ms

Loss rate: 13.28%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-04 00:22:23

End at: 2018-04-04 00:22:53

Local clock offset: 0.304 ms

Remote clock offset: 0.499 ms

Below is generated by plot.py at 2018-04-04 06:52:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.45 Mbit/s

95th percentile per-packet one-way delay: 123.841 ms

Loss rate: 13.78%

-- Flow 1:

Average throughput: 286.89 Mbit/s

95th percentile per-packet one-way delay: 116.817 ms

Loss rate: 10.10%

-- Flow 2:

Average throughput: 51.51 Mbit/s

95th percentile per-packet one-way delay: 115.481 ms

Loss rate: 23.10%

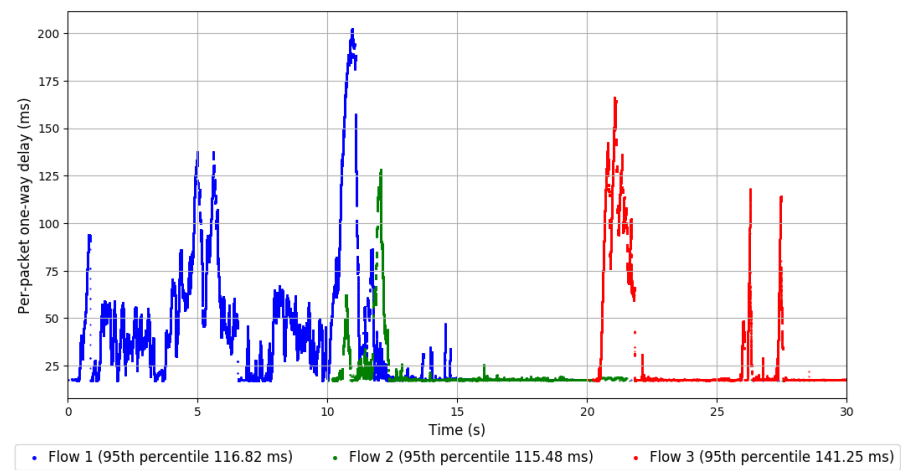
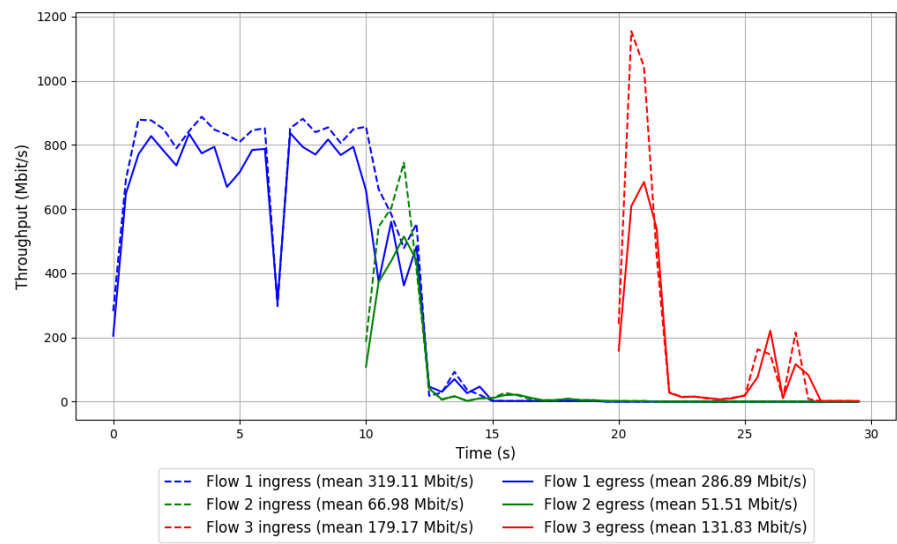
-- Flow 3:

Average throughput: 131.83 Mbit/s

95th percentile per-packet one-way delay: 141.250 ms

Loss rate: 26.42%

Run 6: Report of FillP — Data Link

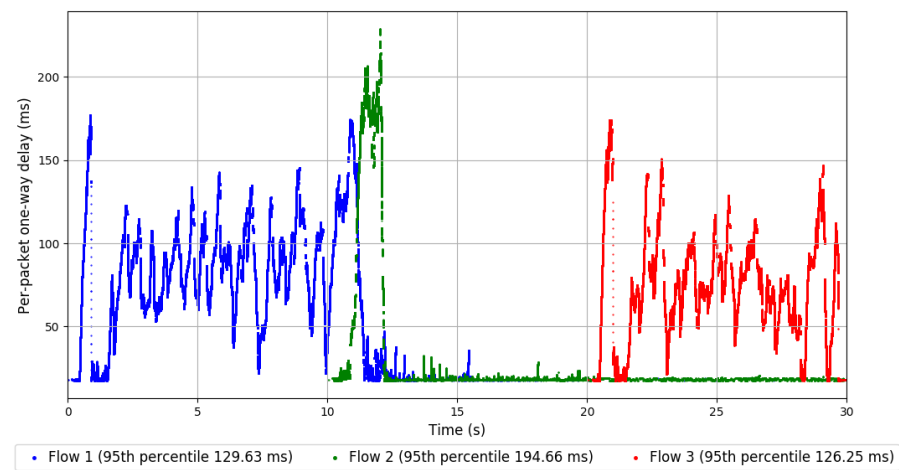
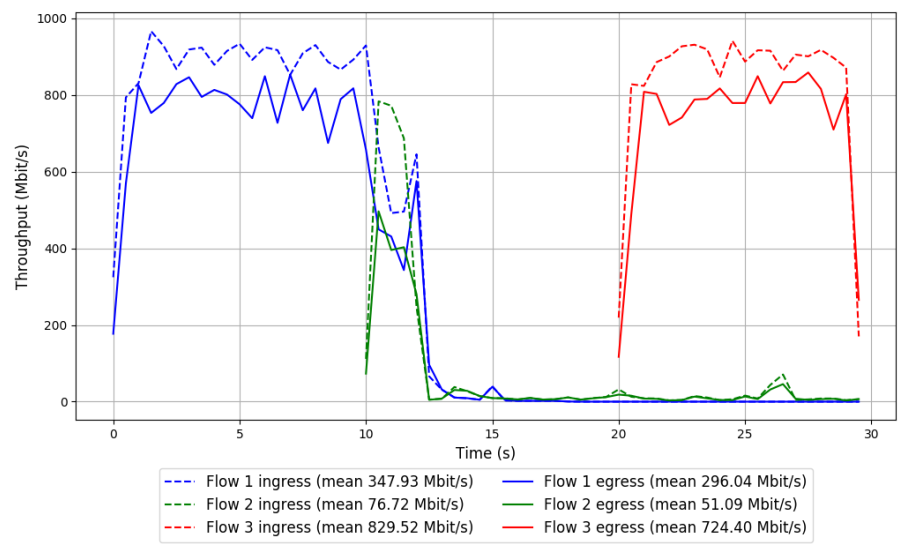


Run 7: Statistics of FillP

Start at: 2018-04-04 00:51:09
End at: 2018-04-04 00:51:39
Local clock offset: 0.077 ms
Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-04-04 06:53:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.97 Mbit/s
95th percentile per-packet one-way delay: 138.809 ms
Loss rate: 15.40%
-- Flow 1:
Average throughput: 296.04 Mbit/s
95th percentile per-packet one-way delay: 129.626 ms
Loss rate: 14.92%
-- Flow 2:
Average throughput: 51.09 Mbit/s
95th percentile per-packet one-way delay: 194.659 ms
Loss rate: 33.40%
-- Flow 3:
Average throughput: 724.40 Mbit/s
95th percentile per-packet one-way delay: 126.249 ms
Loss rate: 12.67%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

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

End at: 2018-04-04 01:20:31

Local clock offset: 0.144 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2018-04-04 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 146.221 ms

Loss rate: 25.64%

-- Flow 1:

Average throughput: 47.73 Mbit/s

95th percentile per-packet one-way delay: 148.613 ms

Loss rate: 28.40%

-- Flow 2:

Average throughput: 415.60 Mbit/s

95th percentile per-packet one-way delay: 139.793 ms

Loss rate: 23.24%

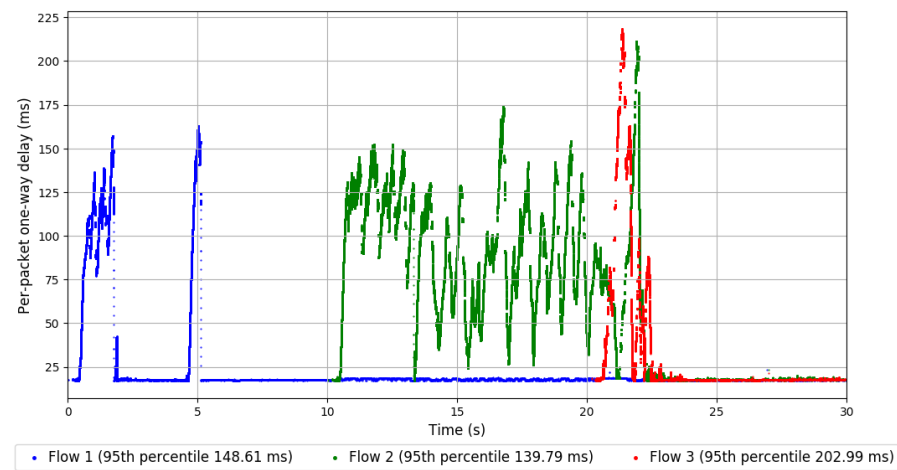
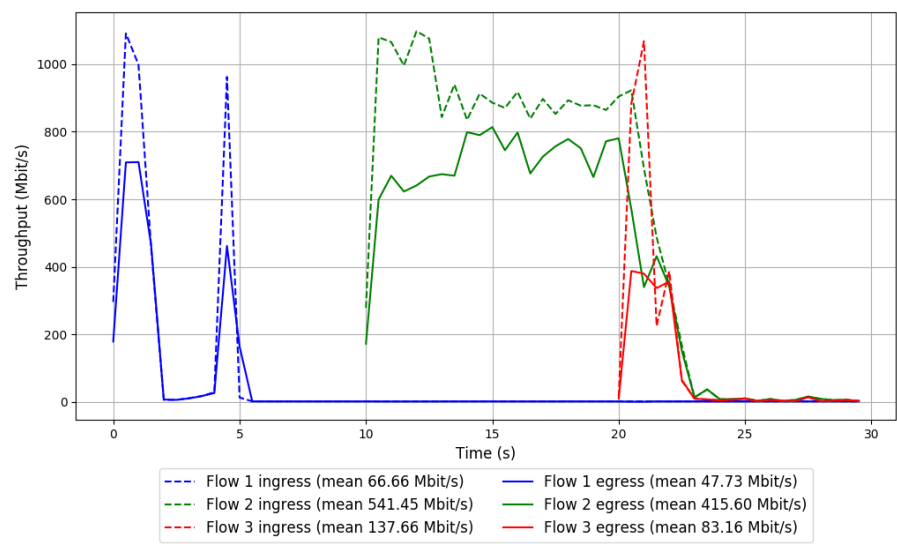
-- Flow 3:

Average throughput: 83.16 Mbit/s

95th percentile per-packet one-way delay: 202.987 ms

Loss rate: 40.52%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-04 01:48:51

End at: 2018-04-04 01:49:21

Local clock offset: 0.126 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-04-04 06:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 367.69 Mbit/s

95th percentile per-packet one-way delay: 135.320 ms

Loss rate: 17.65%

-- Flow 1:

Average throughput: 46.47 Mbit/s

95th percentile per-packet one-way delay: 153.113 ms

Loss rate: 24.63%

-- Flow 2:

Average throughput: 435.84 Mbit/s

95th percentile per-packet one-way delay: 127.126 ms

Loss rate: 14.42%

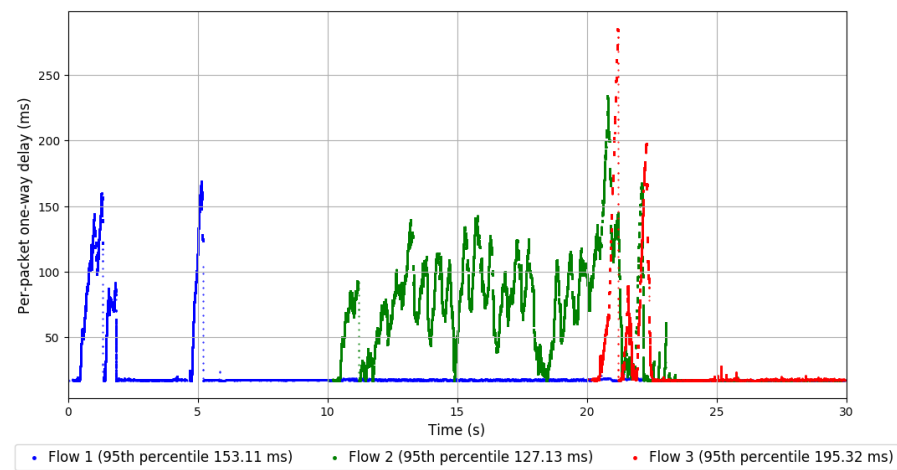
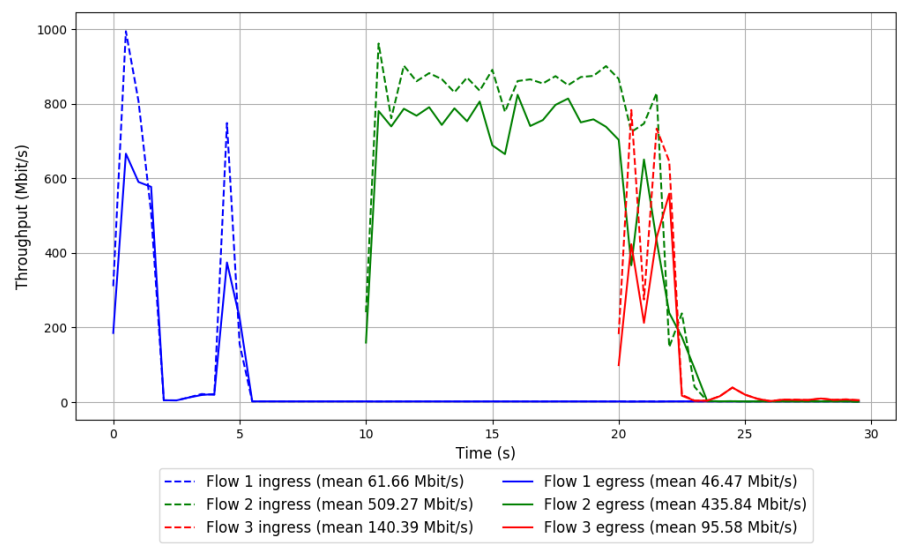
-- Flow 3:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 195.318 ms

Loss rate: 31.92%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-04 02:17:50

End at: 2018-04-04 02:18:20

Local clock offset: 0.505 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-04-04 06:55:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 585.95 Mbit/s

95th percentile per-packet one-way delay: 139.642 ms

Loss rate: 14.86%

-- Flow 1:

Average throughput: 314.65 Mbit/s

95th percentile per-packet one-way delay: 162.063 ms

Loss rate: 13.20%

-- Flow 2:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 202.161 ms

Loss rate: 28.41%

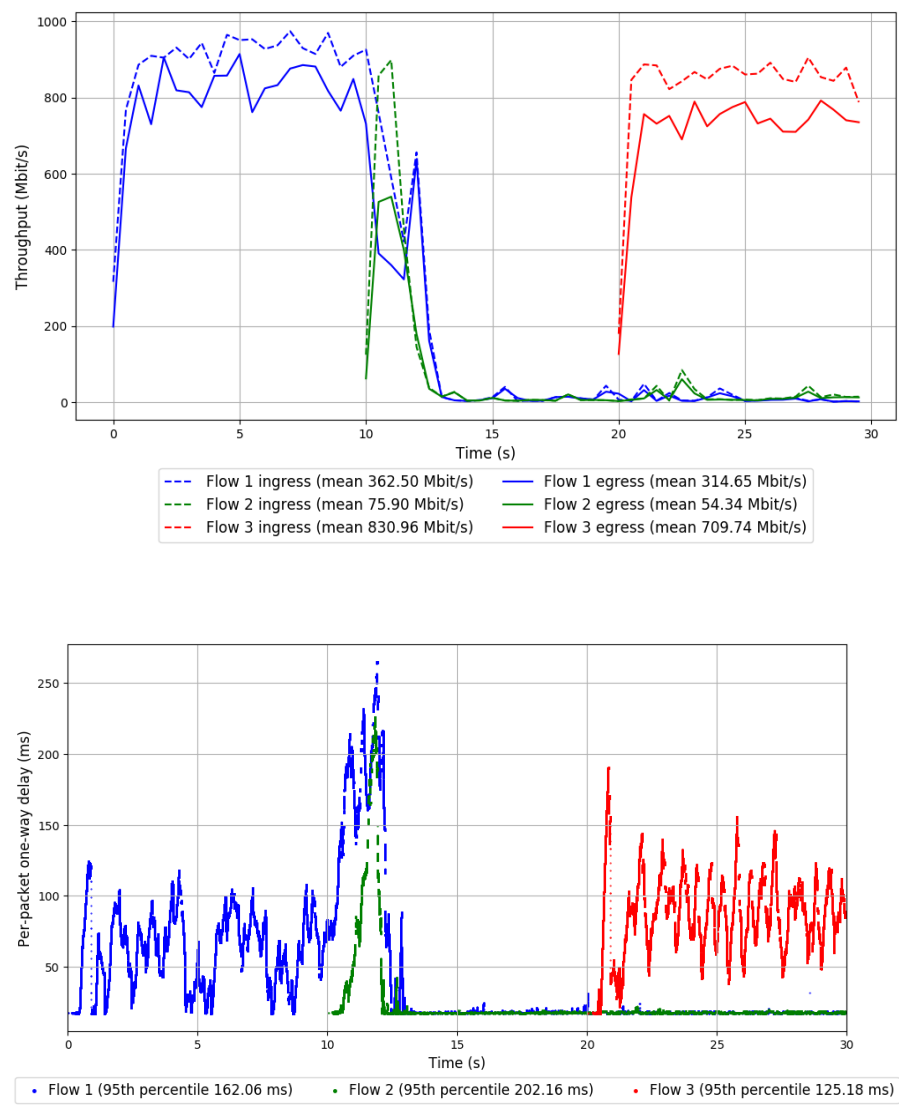
-- Flow 3:

Average throughput: 709.74 Mbit/s

95th percentile per-packet one-way delay: 125.182 ms

Loss rate: 14.57%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-04-03 22:01:47

End at: 2018-04-03 22:02:17

Local clock offset: 0.828 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2018-04-04 06:55:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.62 Mbit/s

95th percentile per-packet one-way delay: 19.036 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 190.98 Mbit/s

95th percentile per-packet one-way delay: 18.762 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 185.01 Mbit/s

95th percentile per-packet one-way delay: 18.507 ms

Loss rate: 0.03%

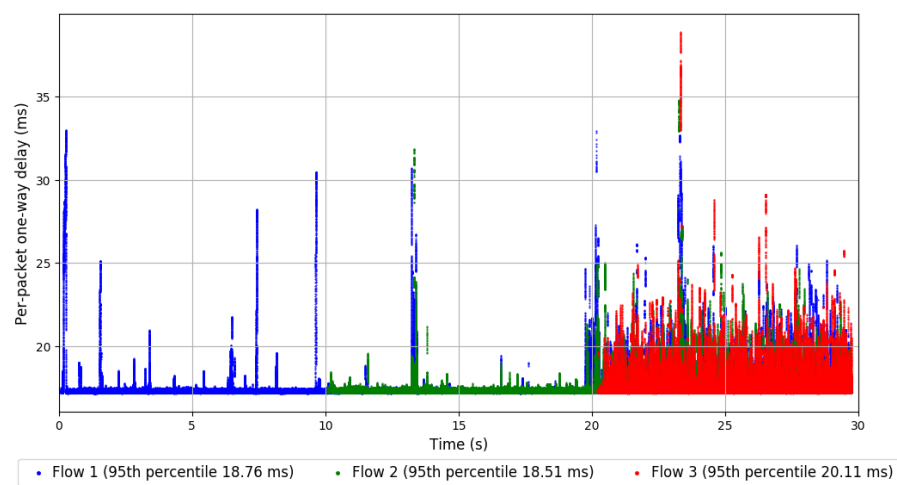
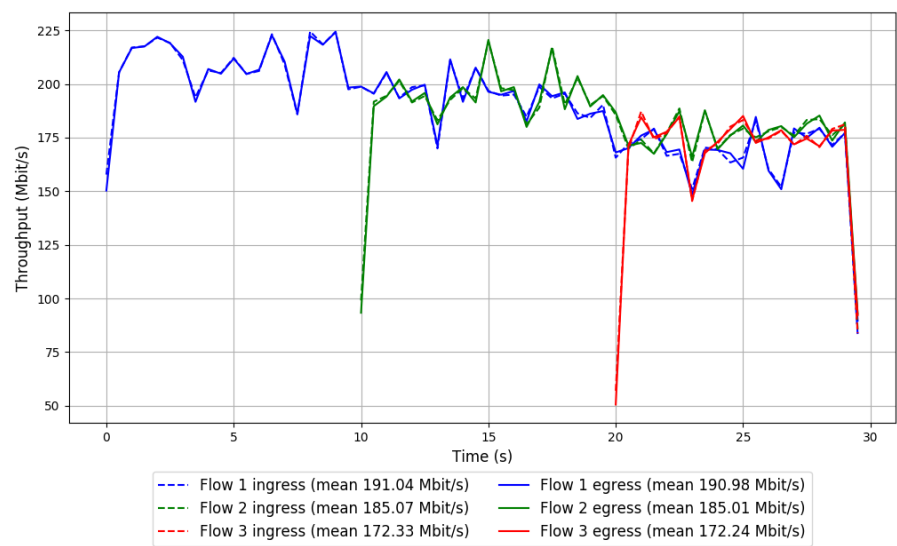
-- Flow 3:

Average throughput: 172.24 Mbit/s

95th percentile per-packet one-way delay: 20.112 ms

Loss rate: 0.04%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-03 22:30:35

End at: 2018-04-03 22:31:05

Local clock offset: 1.07 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-04-04 06:55:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.67 Mbit/s

95th percentile per-packet one-way delay: 19.009 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 193.90 Mbit/s

95th percentile per-packet one-way delay: 18.725 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 187.18 Mbit/s

95th percentile per-packet one-way delay: 18.385 ms

Loss rate: 0.01%

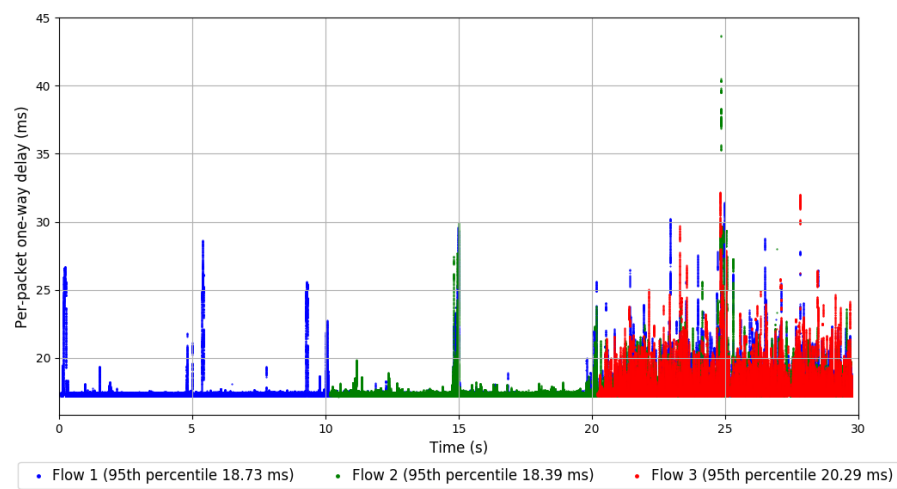
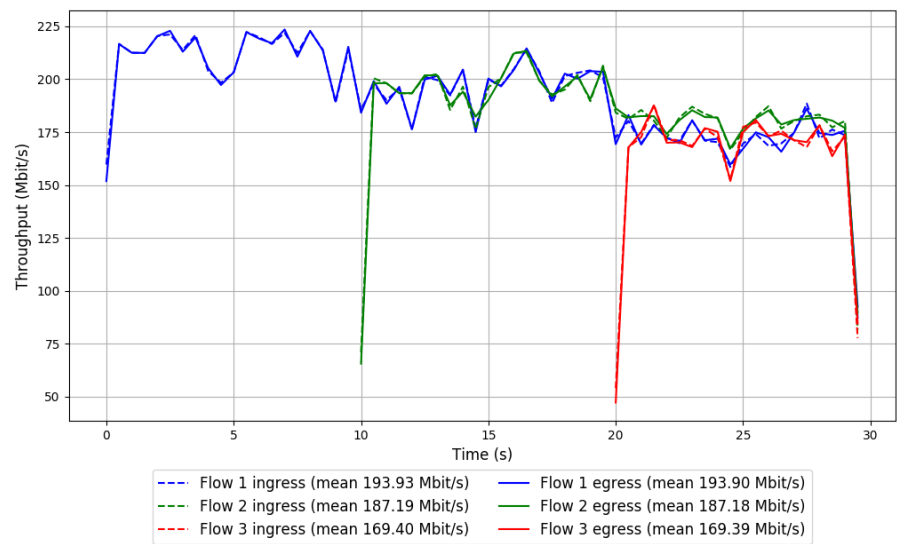
-- Flow 3:

Average throughput: 169.39 Mbit/s

95th percentile per-packet one-way delay: 20.285 ms

Loss rate: 0.01%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-03 22:59:32

End at: 2018-04-03 23:00:02

Local clock offset: 1.329 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-04-04 06:55:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.04 Mbit/s

95th percentile per-packet one-way delay: 19.091 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 193.03 Mbit/s

95th percentile per-packet one-way delay: 18.329 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 181.56 Mbit/s

95th percentile per-packet one-way delay: 19.201 ms

Loss rate: 0.01%

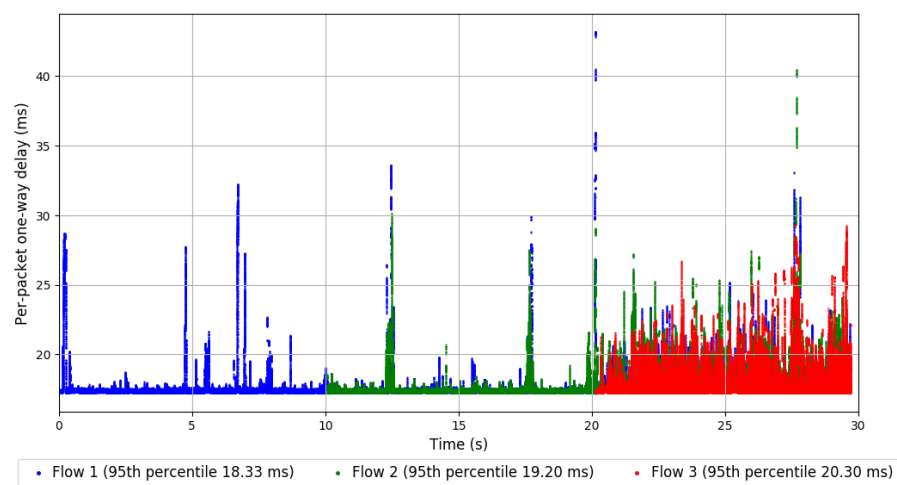
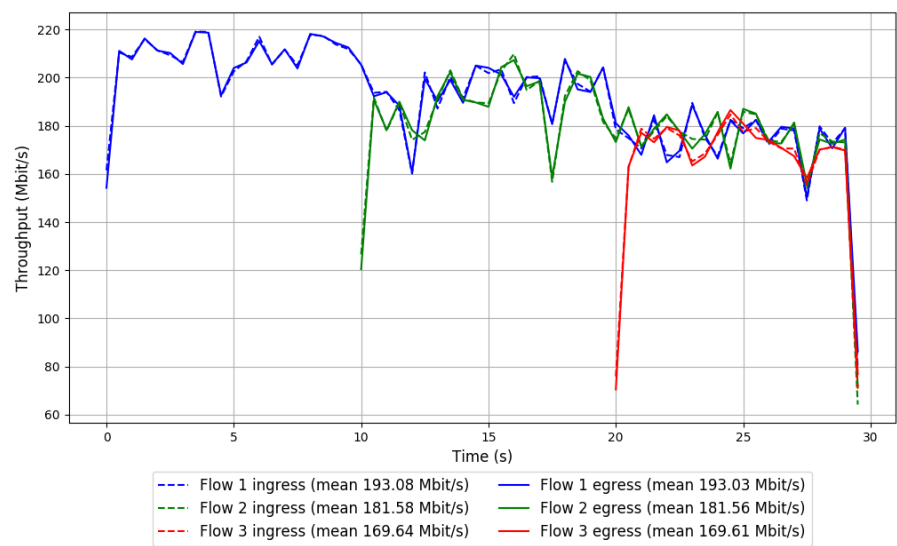
-- Flow 3:

Average throughput: 169.61 Mbit/s

95th percentile per-packet one-way delay: 20.304 ms

Loss rate: 0.01%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-03 23:27:51

End at: 2018-04-03 23:28:21

Local clock offset: 1.516 ms

Remote clock offset: 0.382 ms

Below is generated by plot.py at 2018-04-04 06:55:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.88 Mbit/s

95th percentile per-packet one-way delay: 18.974 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 193.85 Mbit/s

95th percentile per-packet one-way delay: 18.425 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 187.41 Mbit/s

95th percentile per-packet one-way delay: 19.117 ms

Loss rate: 0.01%

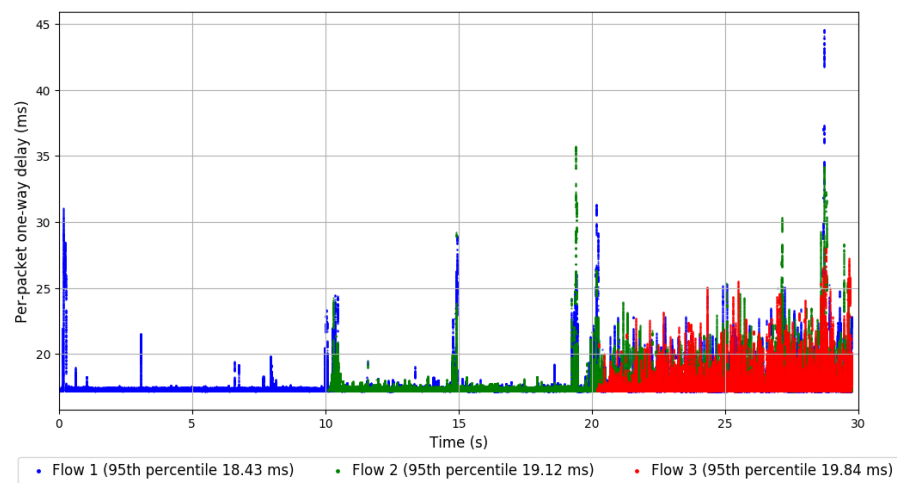
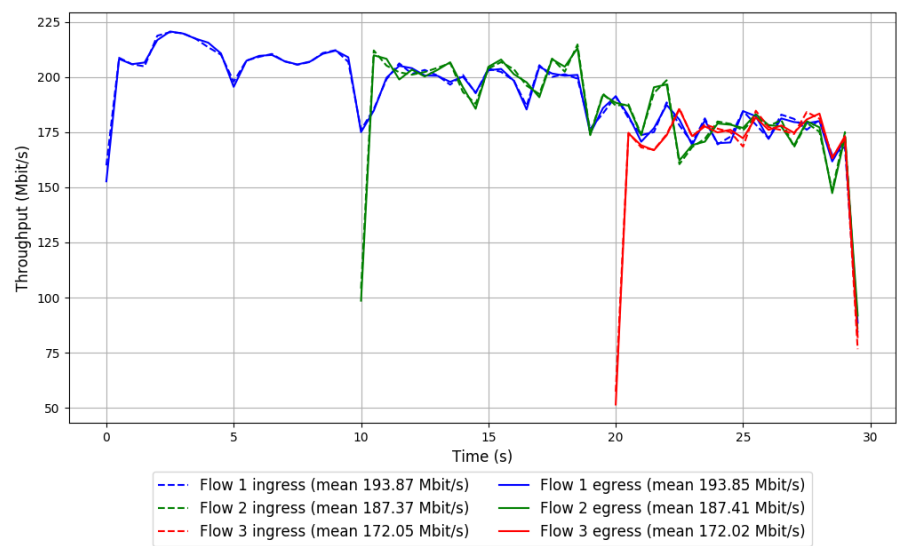
-- Flow 3:

Average throughput: 172.02 Mbit/s

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

Loss rate: 0.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-03 23:56:39

End at: 2018-04-03 23:57:09

Local clock offset: 0.737 ms

Remote clock offset: 0.524 ms

Below is generated by plot.py at 2018-04-04 06:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.75 Mbit/s

95th percentile per-packet one-way delay: 18.868 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 191.46 Mbit/s

95th percentile per-packet one-way delay: 18.380 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 181.27 Mbit/s

95th percentile per-packet one-way delay: 18.999 ms

Loss rate: 0.01%

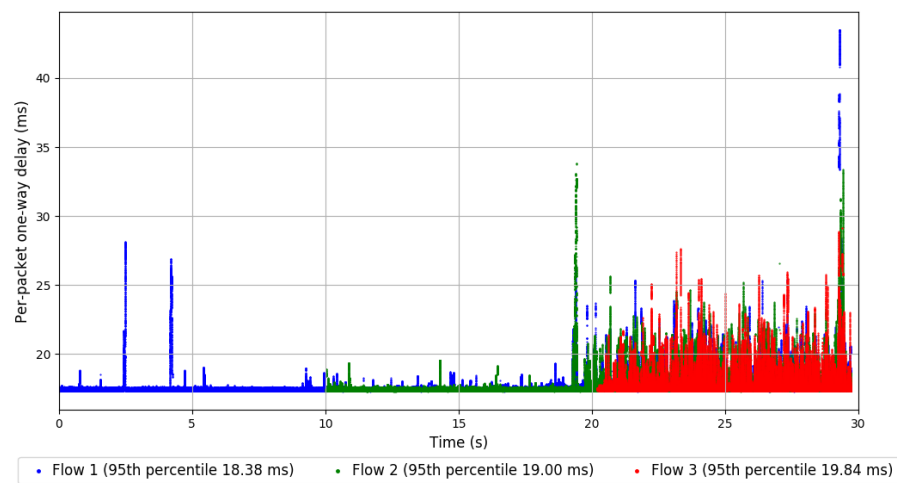
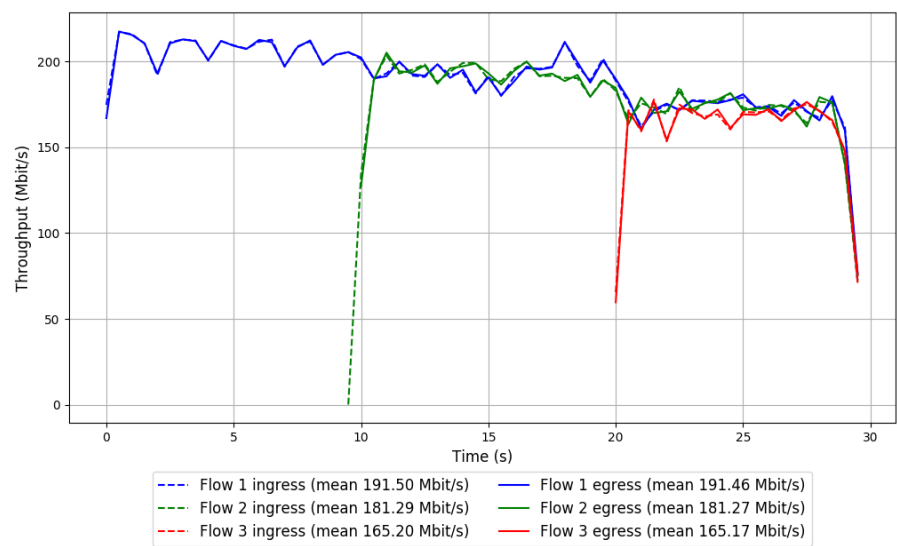
-- Flow 3:

Average throughput: 165.17 Mbit/s

95th percentile per-packet one-way delay: 19.835 ms

Loss rate: 0.02%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-04 00:25:21

End at: 2018-04-04 00:25:51

Local clock offset: 0.257 ms

Remote clock offset: 0.435 ms

Below is generated by plot.py at 2018-04-04 06:58:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.40 Mbit/s

95th percentile per-packet one-way delay: 19.200 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 192.21 Mbit/s

95th percentile per-packet one-way delay: 18.852 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 185.32 Mbit/s

95th percentile per-packet one-way delay: 18.656 ms

Loss rate: 0.02%

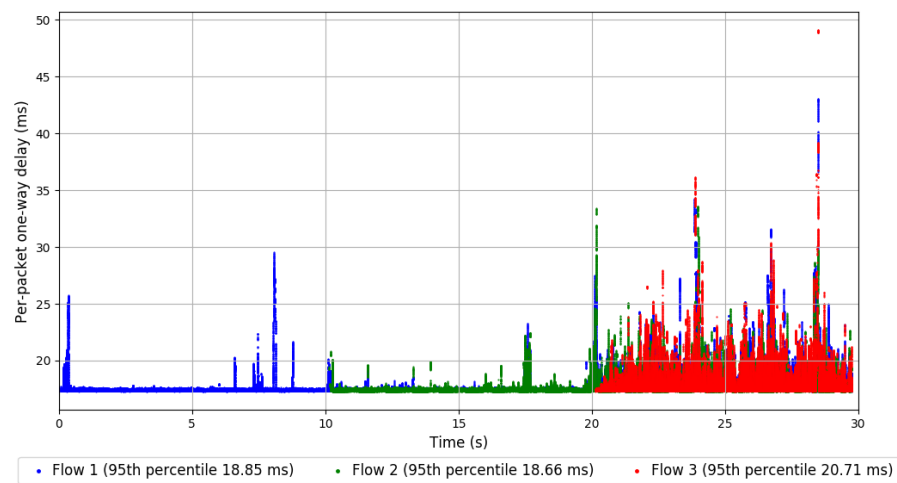
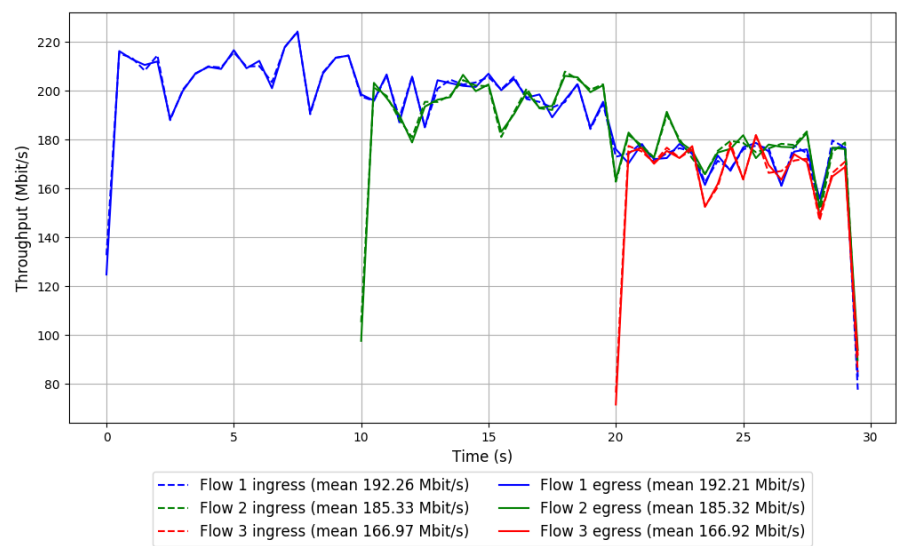
-- Flow 3:

Average throughput: 166.92 Mbit/s

95th percentile per-packet one-way delay: 20.714 ms

Loss rate: 0.03%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-04 00:54:14

End at: 2018-04-04 00:54:44

Local clock offset: 0.128 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-04-04 06:59:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.38 Mbit/s

95th percentile per-packet one-way delay: 19.100 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 188.19 Mbit/s

95th percentile per-packet one-way delay: 18.849 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 183.85 Mbit/s

95th percentile per-packet one-way delay: 18.509 ms

Loss rate: 0.01%

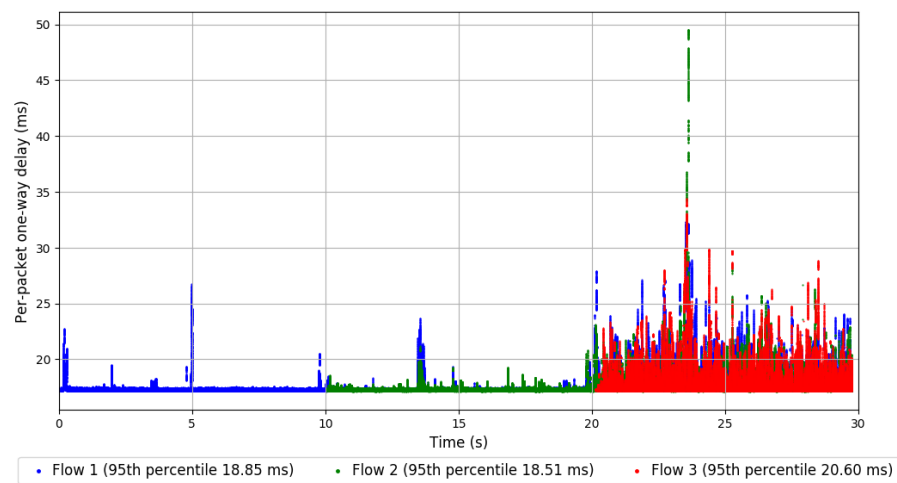
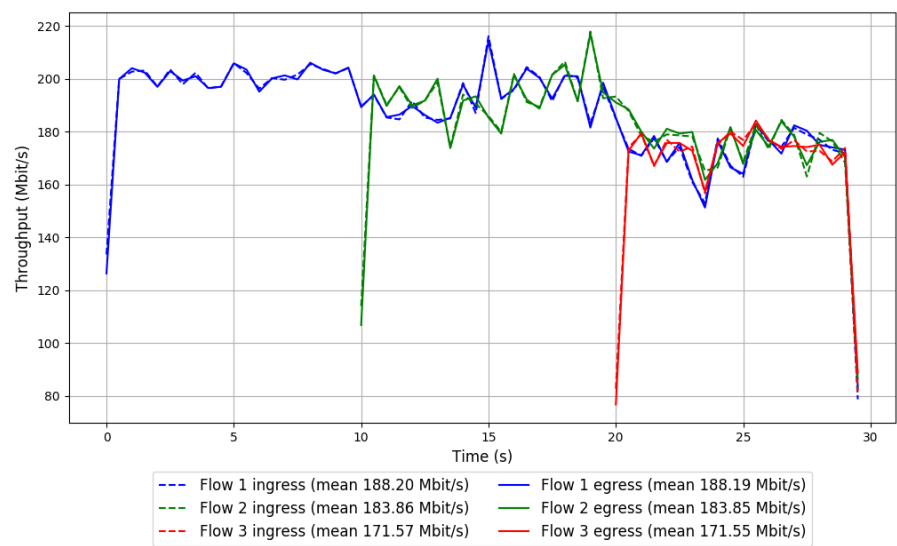
-- Flow 3:

Average throughput: 171.55 Mbit/s

95th percentile per-packet one-way delay: 20.597 ms

Loss rate: 0.01%

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



Run 8: Statistics of Indigo-1-32

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

End at: 2018-04-04 01:23:31

Local clock offset: 0.099 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-04-04 07:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.34 Mbit/s

95th percentile per-packet one-way delay: 19.067 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 195.32 Mbit/s

95th percentile per-packet one-way delay: 18.469 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 183.17 Mbit/s

95th percentile per-packet one-way delay: 19.133 ms

Loss rate: 0.10%

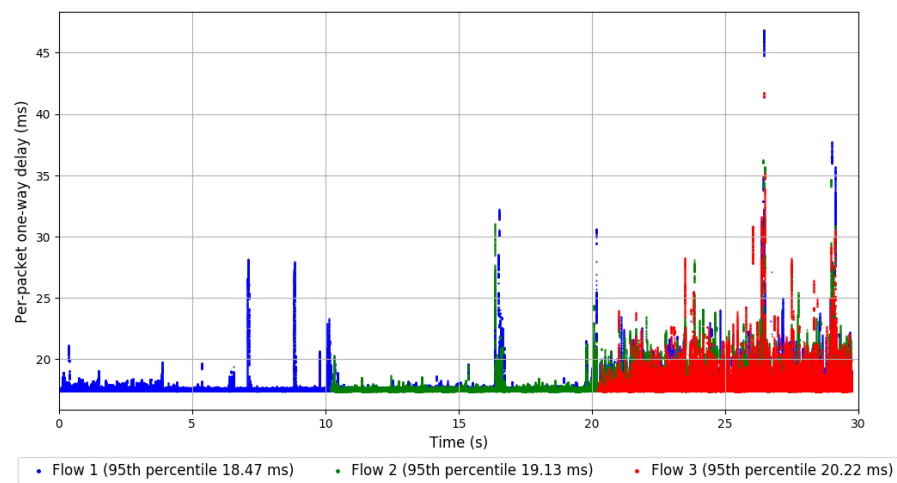
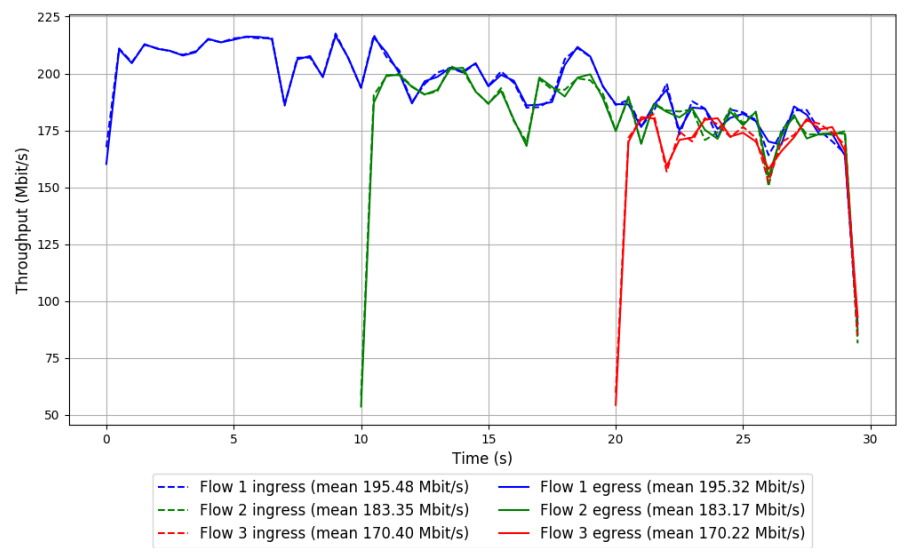
-- Flow 3:

Average throughput: 170.22 Mbit/s

95th percentile per-packet one-way delay: 20.218 ms

Loss rate: 0.10%

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



Run 9: Statistics of Indigo-1-32

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

End at: 2018-04-04 01:52:21

Local clock offset: 0.155 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2018-04-04 07:00:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.72 Mbit/s

95th percentile per-packet one-way delay: 19.021 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 197.50 Mbit/s

95th percentile per-packet one-way delay: 18.748 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 186.42 Mbit/s

95th percentile per-packet one-way delay: 18.846 ms

Loss rate: 0.00%

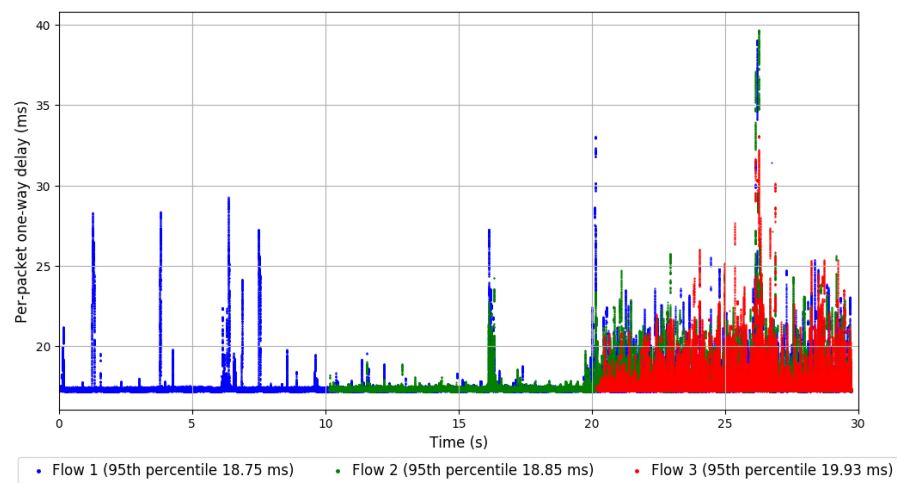
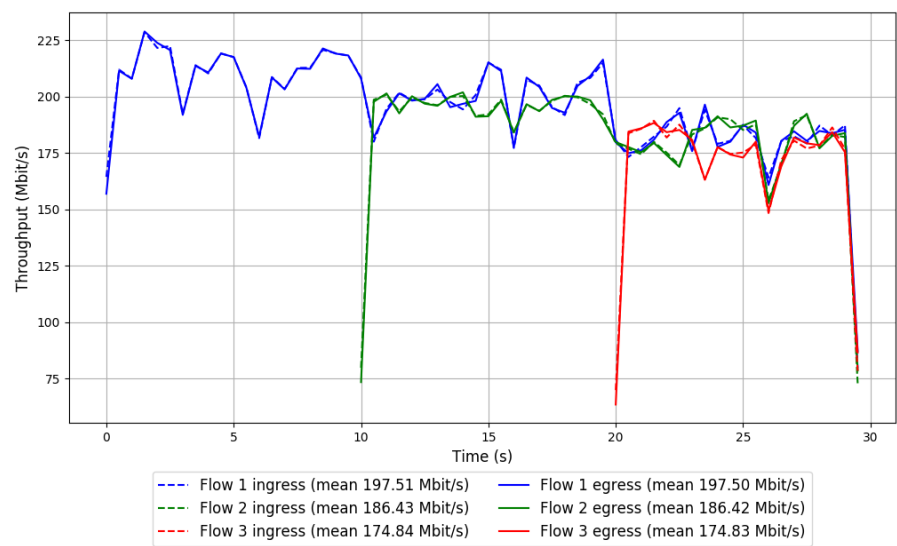
-- Flow 3:

Average throughput: 174.83 Mbit/s

95th percentile per-packet one-way delay: 19.931 ms

Loss rate: 0.01%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-04 02:20:57

End at: 2018-04-04 02:21:27

Local clock offset: 0.441 ms

Remote clock offset: 0.468 ms

Below is generated by plot.py at 2018-04-04 07:00:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.49 Mbit/s

95th percentile per-packet one-way delay: 19.297 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 196.22 Mbit/s

95th percentile per-packet one-way delay: 18.870 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 188.55 Mbit/s

95th percentile per-packet one-way delay: 19.171 ms

Loss rate: 0.01%

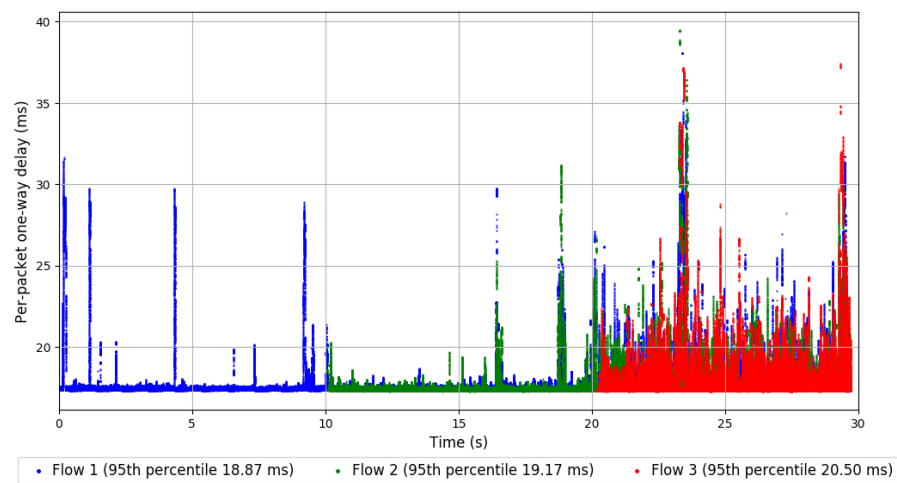
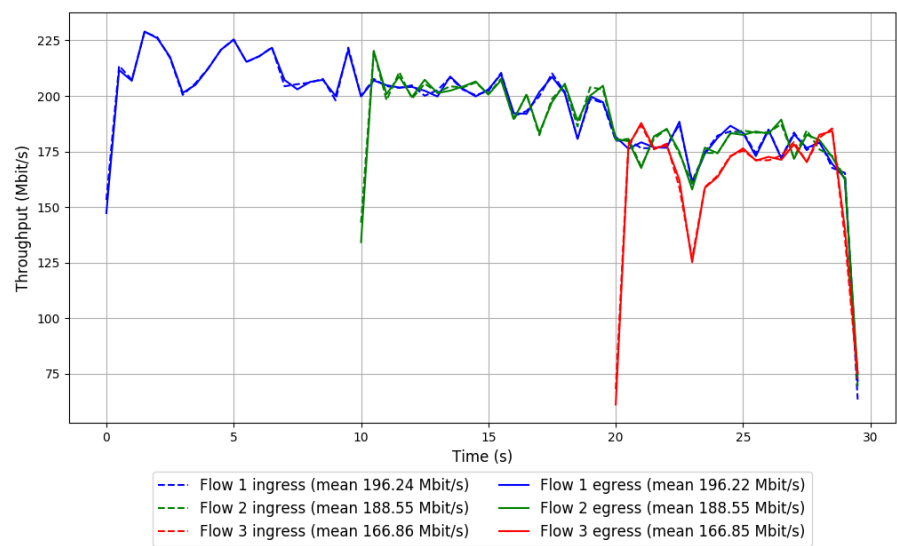
-- Flow 3:

Average throughput: 166.85 Mbit/s

95th percentile per-packet one-way delay: 20.503 ms

Loss rate: 0.01%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-03 22:10:17

End at: 2018-04-03 22:10:47

Local clock offset: 0.795 ms

Remote clock offset: 0.228 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 545.34 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 327.76 Mbit/s

95th percentile per-packet one-way delay: 19.545 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 272.12 Mbit/s

95th percentile per-packet one-way delay: 20.828 ms

Loss rate: 0.10%

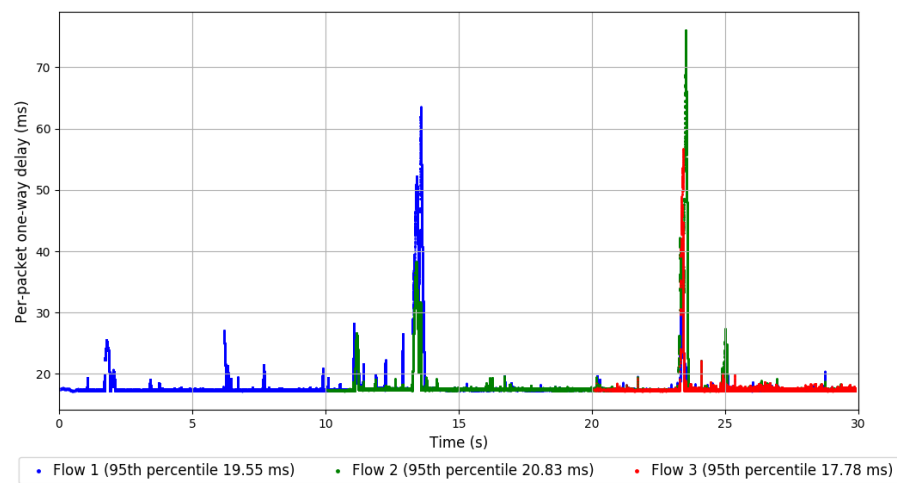
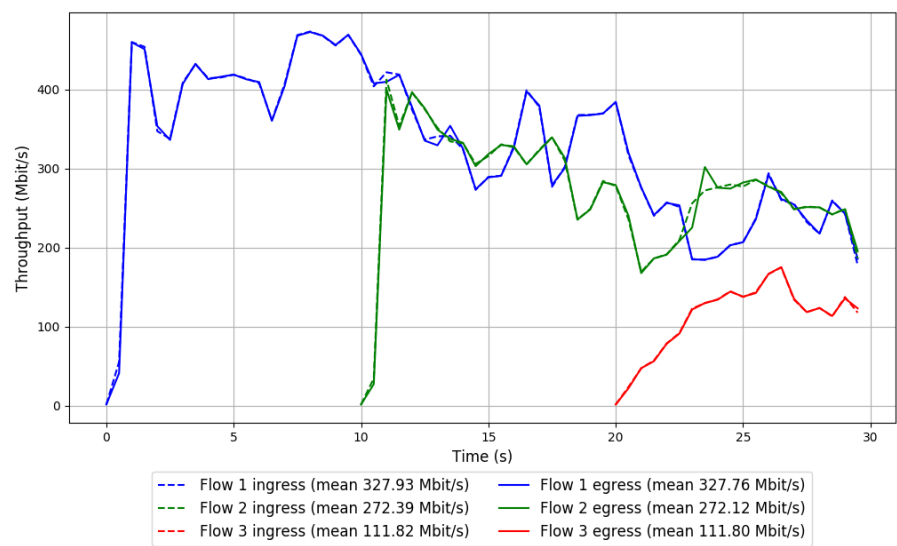
-- Flow 3:

Average throughput: 111.80 Mbit/s

95th percentile per-packet one-way delay: 17.784 ms

Loss rate: 0.01%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-03 22:39:12

End at: 2018-04-03 22:39:42

Local clock offset: 1.221 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-04-04 07:04:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.99 Mbit/s

95th percentile per-packet one-way delay: 20.357 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 345.27 Mbit/s

95th percentile per-packet one-way delay: 23.816 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 283.90 Mbit/s

95th percentile per-packet one-way delay: 17.844 ms

Loss rate: 0.04%

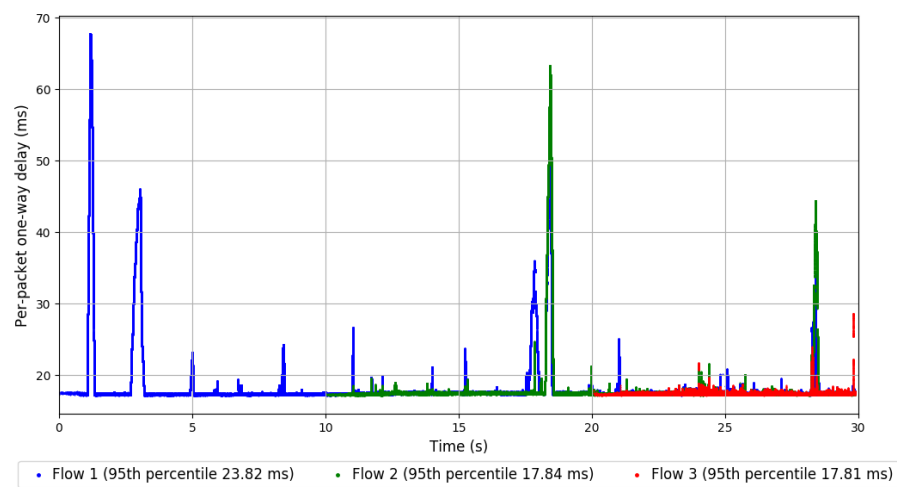
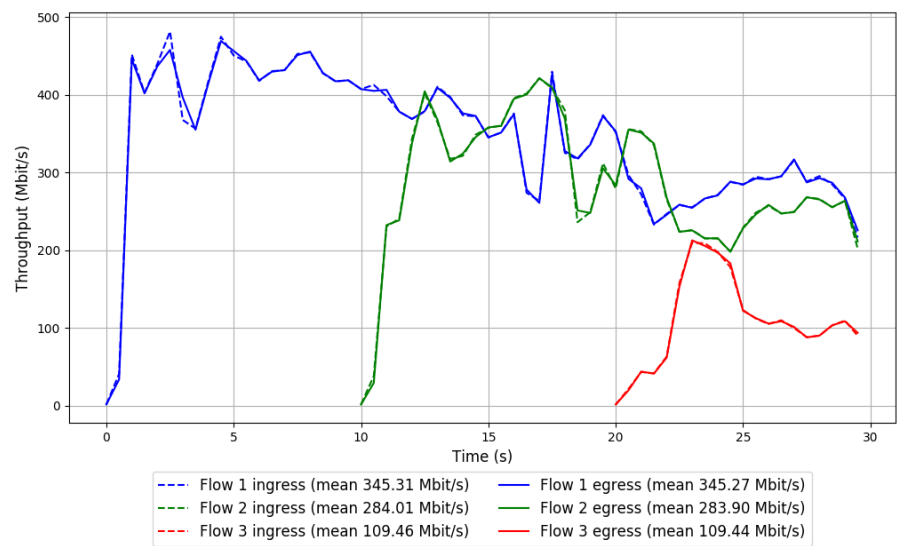
-- Flow 3:

Average throughput: 109.44 Mbit/s

95th percentile per-packet one-way delay: 17.810 ms

Loss rate: 0.02%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-03 23:08:03

End at: 2018-04-03 23:08:33

Local clock offset: 1.266 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-04-04 07:04:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 459.45 Mbit/s

95th percentile per-packet one-way delay: 20.277 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 292.20 Mbit/s

95th percentile per-packet one-way delay: 20.994 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 200.89 Mbit/s

95th percentile per-packet one-way delay: 19.179 ms

Loss rate: 0.00%

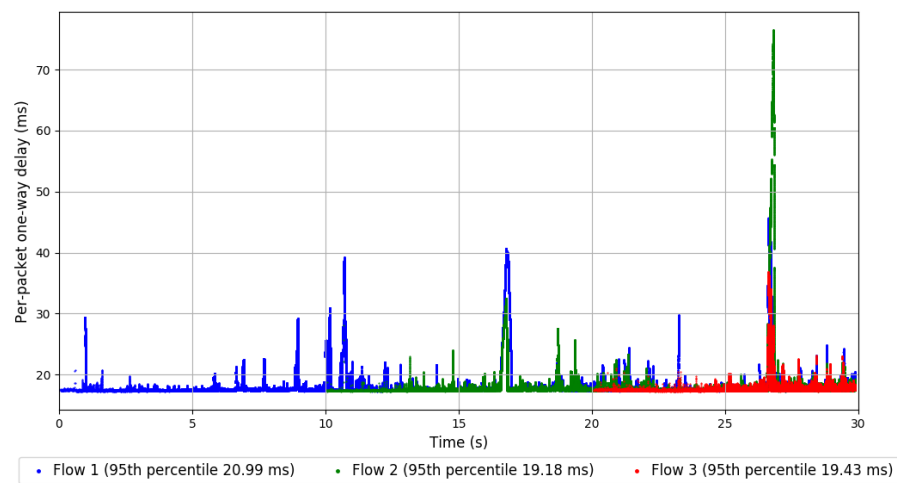
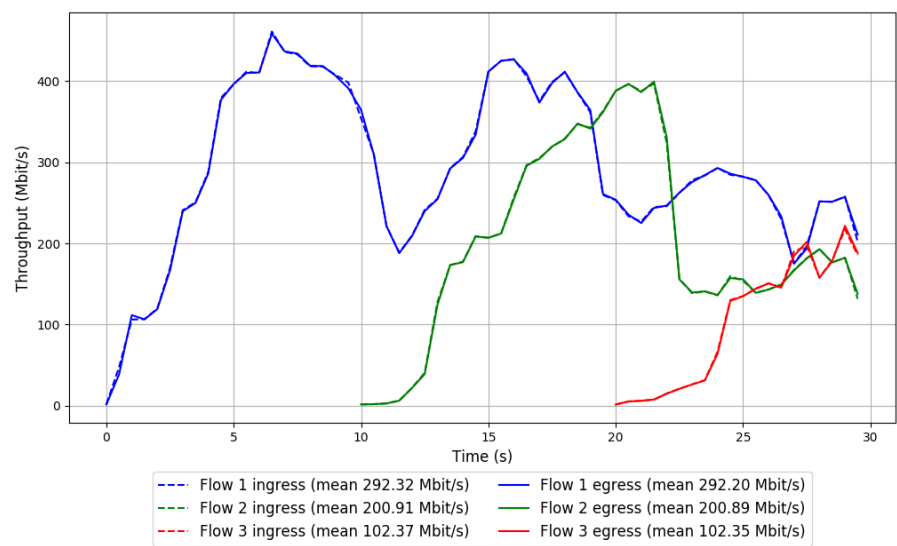
-- Flow 3:

Average throughput: 102.35 Mbit/s

95th percentile per-packet one-way delay: 19.432 ms

Loss rate: 0.01%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-03 23:36:27

End at: 2018-04-03 23:36:57

Local clock offset: 1.015 ms

Remote clock offset: 0.406 ms

Below is generated by plot.py at 2018-04-04 07:07:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 576.28 Mbit/s

95th percentile per-packet one-way delay: 22.957 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 334.99 Mbit/s

95th percentile per-packet one-way delay: 21.936 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 293.20 Mbit/s

95th percentile per-packet one-way delay: 34.168 ms

Loss rate: 0.40%

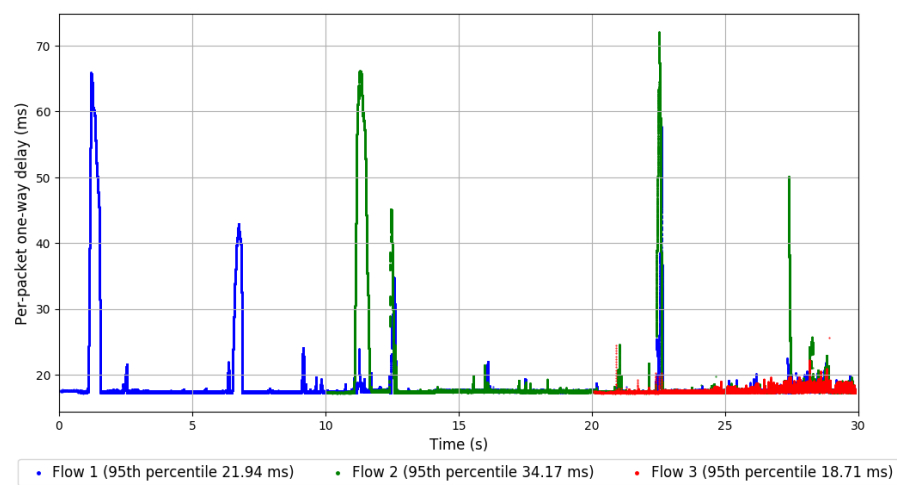
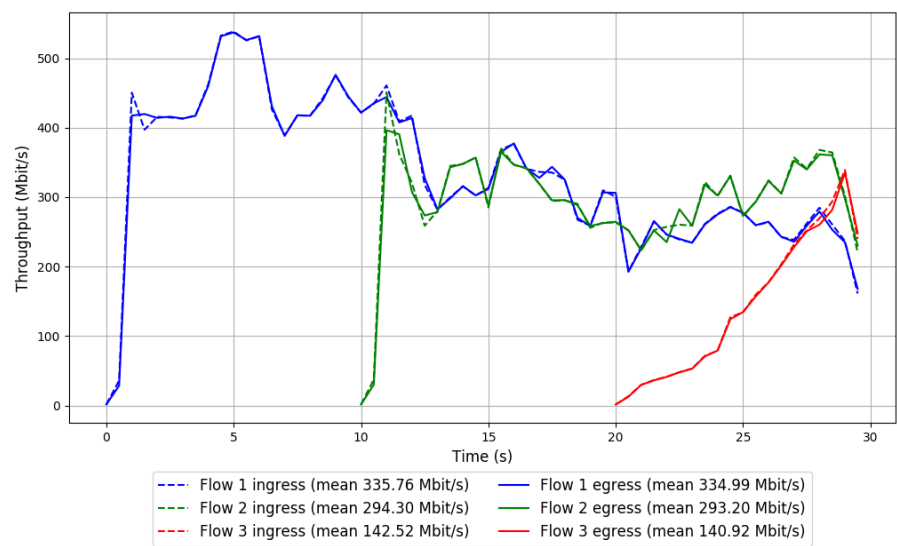
-- Flow 3:

Average throughput: 140.92 Mbit/s

95th percentile per-packet one-way delay: 18.710 ms

Loss rate: 1.13%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-04 00:05:18

End at: 2018-04-04 00:05:48

Local clock offset: 0.718 ms

Remote clock offset: 0.511 ms

Below is generated by plot.py at 2018-04-04 07:07:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 501.37 Mbit/s

95th percentile per-packet one-way delay: 18.667 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 288.27 Mbit/s

95th percentile per-packet one-way delay: 18.017 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 262.99 Mbit/s

95th percentile per-packet one-way delay: 19.918 ms

Loss rate: 0.06%

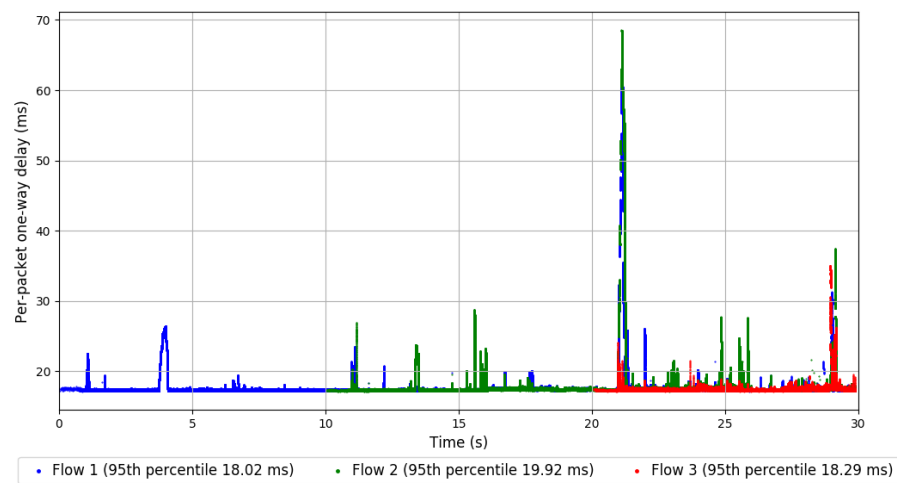
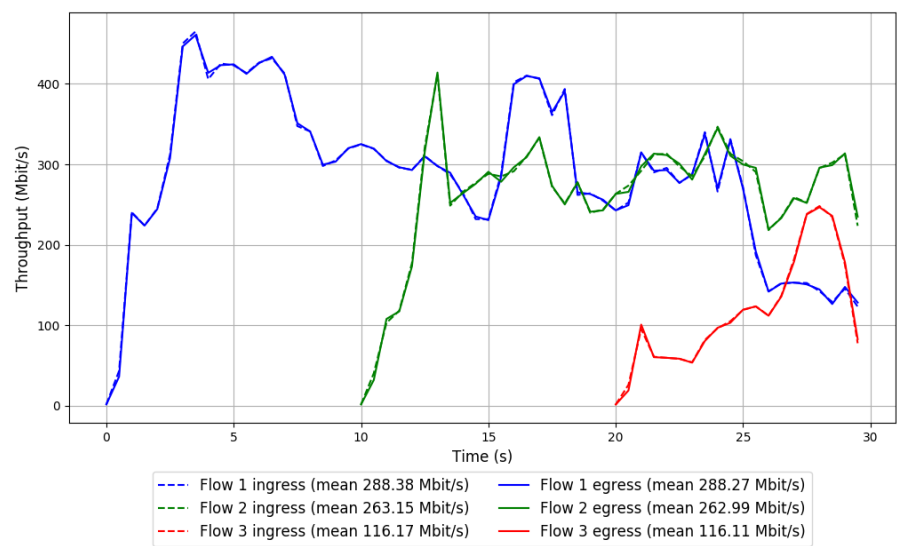
-- Flow 3:

Average throughput: 116.11 Mbit/s

95th percentile per-packet one-way delay: 18.291 ms

Loss rate: 0.06%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-04 00:33:55

End at: 2018-04-04 00:34:25

Local clock offset: 0.141 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at 2018-04-04 07:09:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 530.29 Mbit/s

95th percentile per-packet one-way delay: 25.159 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 319.79 Mbit/s

95th percentile per-packet one-way delay: 21.115 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 288.70 Mbit/s

95th percentile per-packet one-way delay: 52.350 ms

Loss rate: 0.05%

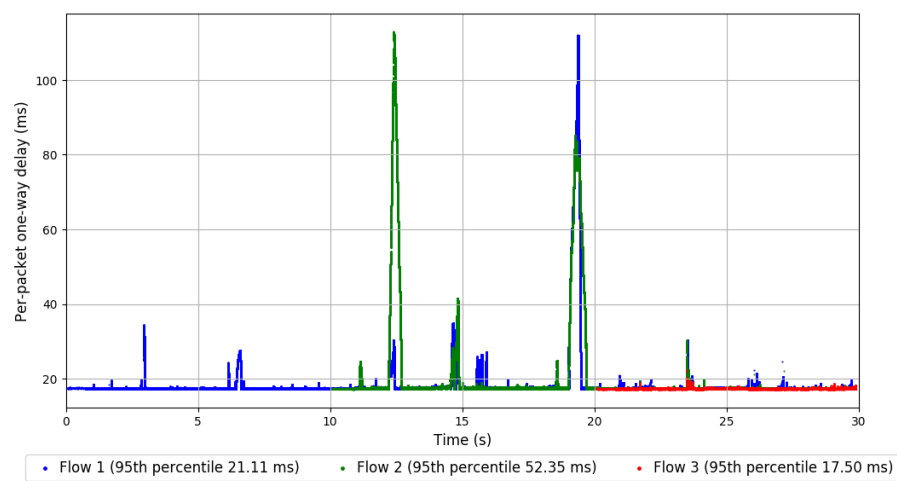
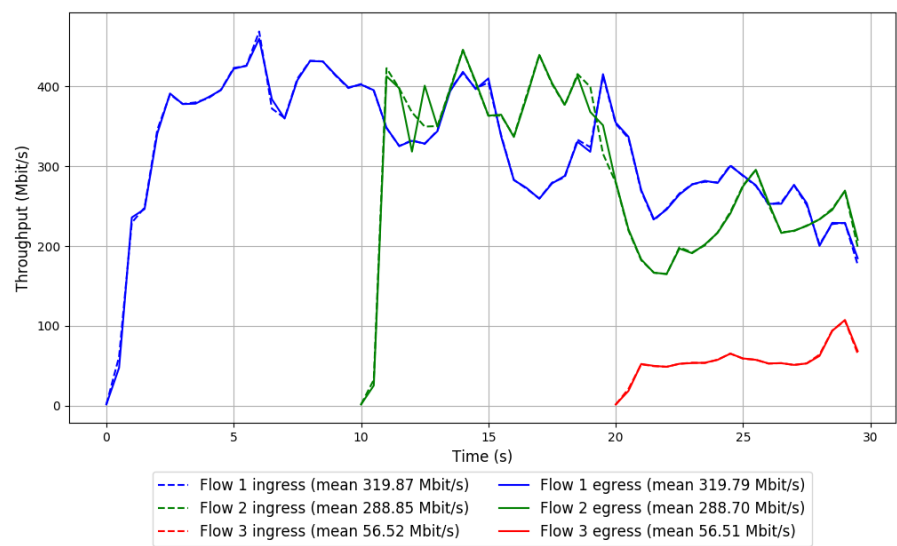
-- Flow 3:

Average throughput: 56.51 Mbit/s

95th percentile per-packet one-way delay: 17.501 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-04 01:02:49

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

Local clock offset: -0.048 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-04-04 07:09:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 493.73 Mbit/s

95th percentile per-packet one-way delay: 18.252 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 303.65 Mbit/s

95th percentile per-packet one-way delay: 19.082 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 263.08 Mbit/s

95th percentile per-packet one-way delay: 17.641 ms

Loss rate: 0.10%

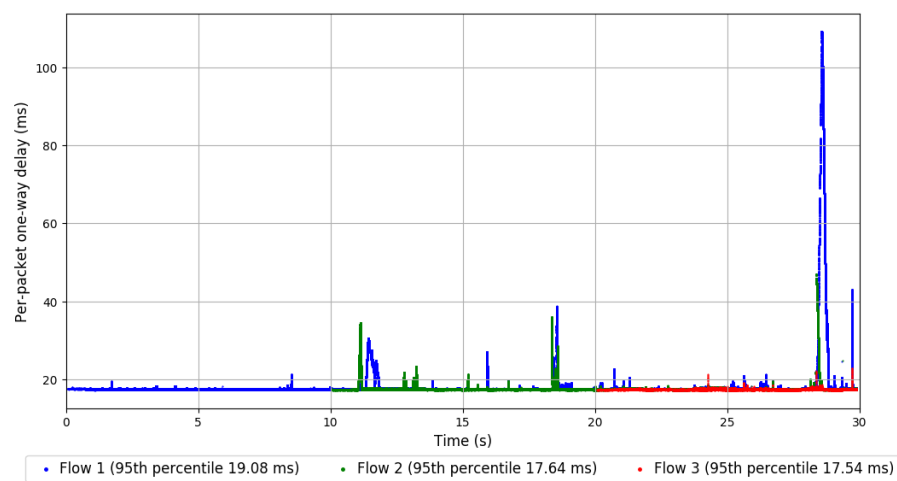
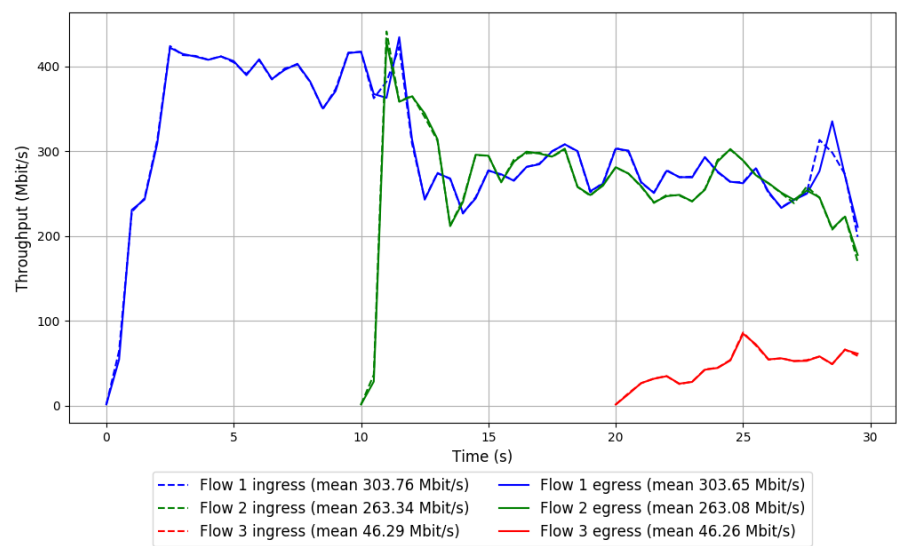
-- Flow 3:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 17.541 ms

Loss rate: 0.06%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-04 01:31:38

End at: 2018-04-04 01:32:08

Local clock offset: 0.214 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-04-04 07:09:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.58 Mbit/s

95th percentile per-packet one-way delay: 22.129 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 331.72 Mbit/s

95th percentile per-packet one-way delay: 28.484 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 246.81 Mbit/s

95th percentile per-packet one-way delay: 17.791 ms

Loss rate: 0.02%

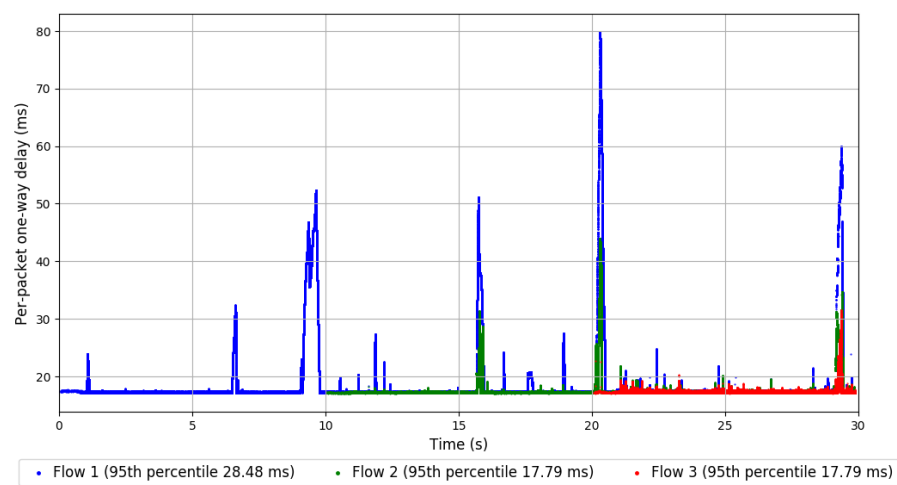
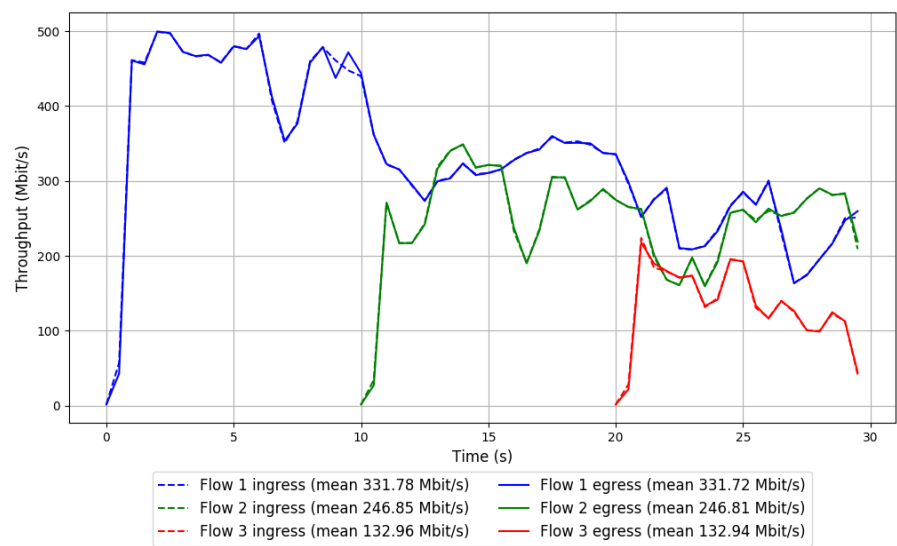
-- Flow 3:

Average throughput: 132.94 Mbit/s

95th percentile per-packet one-way delay: 17.790 ms

Loss rate: 0.03%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-04 02:00:30

End at: 2018-04-04 02:01:00

Local clock offset: 0.094 ms

Remote clock offset: 0.407 ms

Below is generated by plot.py at 2018-04-04 07:11:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 516.08 Mbit/s

95th percentile per-packet one-way delay: 48.658 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 297.31 Mbit/s

95th percentile per-packet one-way delay: 170.367 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 266.42 Mbit/s

95th percentile per-packet one-way delay: 17.582 ms

Loss rate: 0.01%

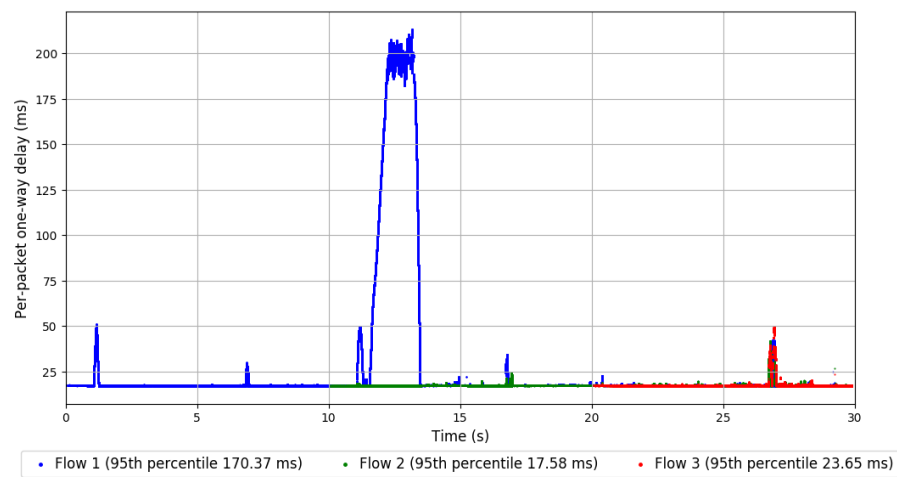
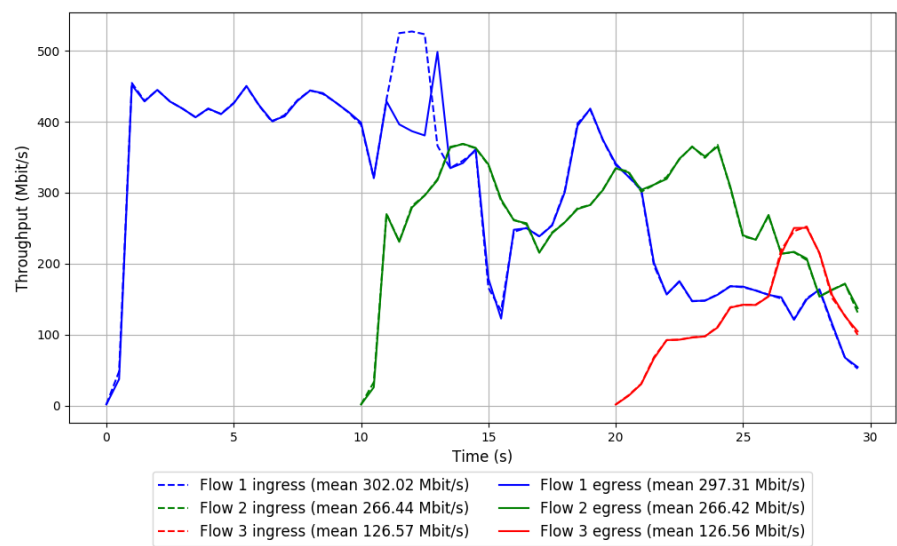
-- Flow 3:

Average throughput: 126.56 Mbit/s

95th percentile per-packet one-way delay: 23.651 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-04 02:29:31

End at: 2018-04-04 02:30:01

Local clock offset: 0.55 ms

Remote clock offset: 0.558 ms

Below is generated by plot.py at 2018-04-04 07:13:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 583.37 Mbit/s

95th percentile per-packet one-way delay: 55.505 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 347.75 Mbit/s

95th percentile per-packet one-way delay: 24.130 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 261.89 Mbit/s

95th percentile per-packet one-way delay: 185.320 ms

Loss rate: 2.64%

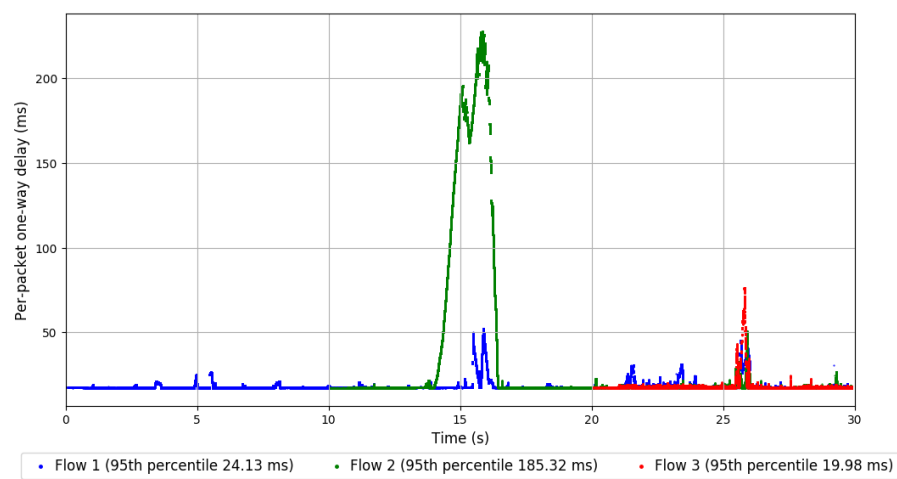
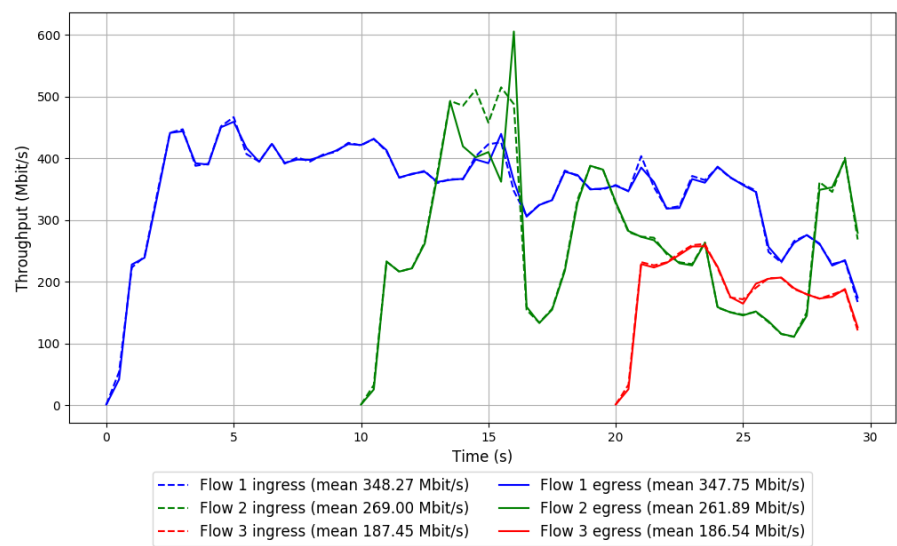
-- Flow 3:

Average throughput: 186.54 Mbit/s

95th percentile per-packet one-way delay: 19.984 ms

Loss rate: 0.48%

Run 10: Report of Vivace-latency — Data Link

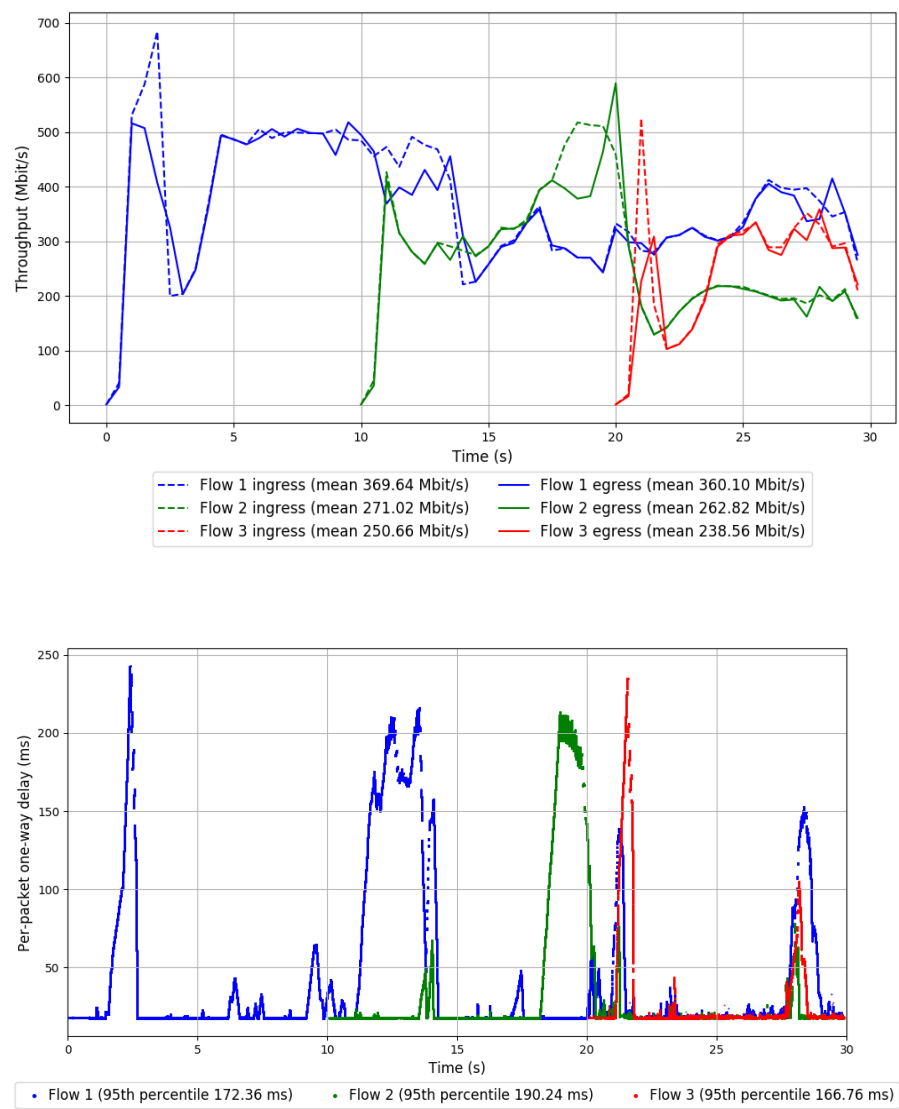


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-03 22:06:47
End at: 2018-04-03 22:07:17
Local clock offset: 0.705 ms
Remote clock offset: 0.317 ms

# Below is generated by plot.py at 2018-04-04 07:14:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 613.26 Mbit/s
95th percentile per-packet one-way delay: 177.715 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 360.10 Mbit/s
95th percentile per-packet one-way delay: 172.361 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 262.82 Mbit/s
95th percentile per-packet one-way delay: 190.237 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 238.56 Mbit/s
95th percentile per-packet one-way delay: 166.760 ms
Loss rate: 4.83%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-03 22:35:37

End at: 2018-04-03 22:36:07

Local clock offset: 1.092 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-04-04 07:18:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 672.00 Mbit/s

95th percentile per-packet one-way delay: 136.057 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 354.17 Mbit/s

95th percentile per-packet one-way delay: 150.190 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 373.79 Mbit/s

95th percentile per-packet one-way delay: 75.267 ms

Loss rate: 3.10%

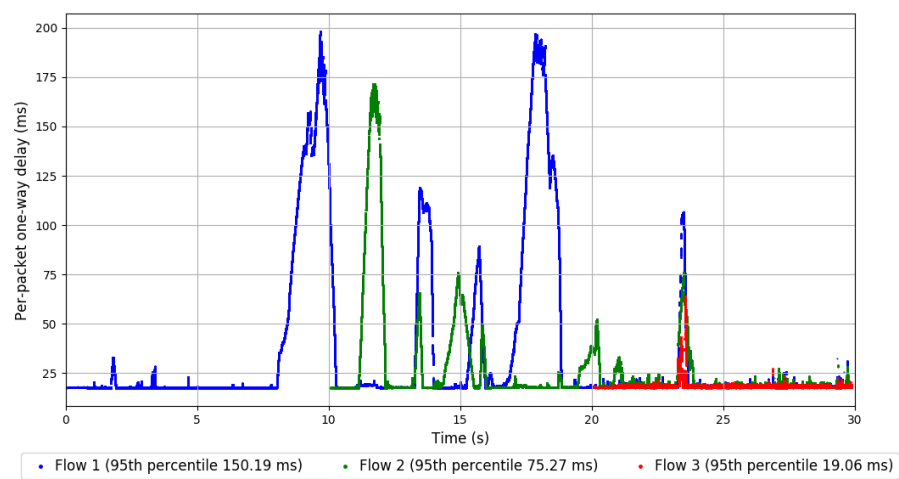
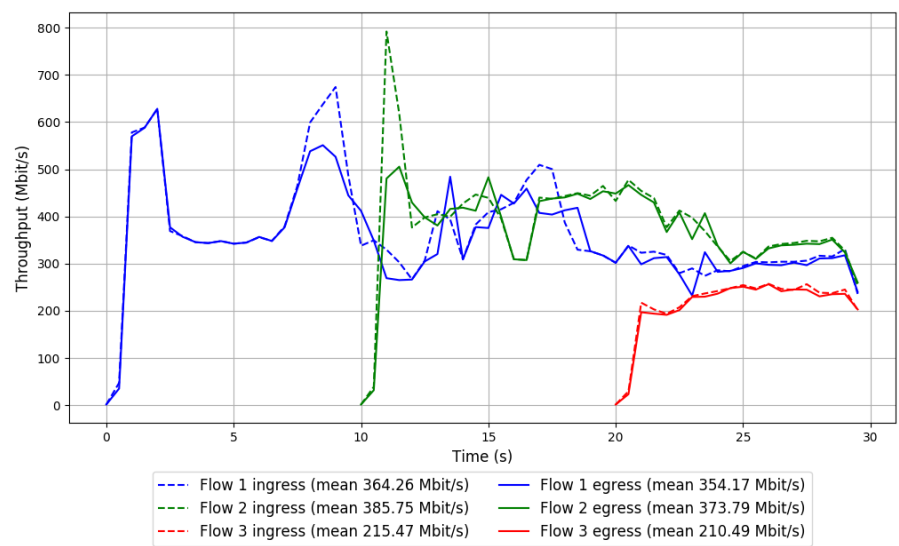
-- Flow 3:

Average throughput: 210.49 Mbit/s

95th percentile per-packet one-way delay: 19.062 ms

Loss rate: 2.31%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-03 23:04:31

End at: 2018-04-03 23:05:01

Local clock offset: 1.239 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-04-04 07:18:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 634.58 Mbit/s

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

Loss rate: 3.14%

-- Flow 1:

Average throughput: 324.63 Mbit/s

95th percentile per-packet one-way delay: 156.693 ms

Loss rate: 3.75%

-- Flow 2:

Average throughput: 340.28 Mbit/s

95th percentile per-packet one-way delay: 216.816 ms

Loss rate: 2.02%

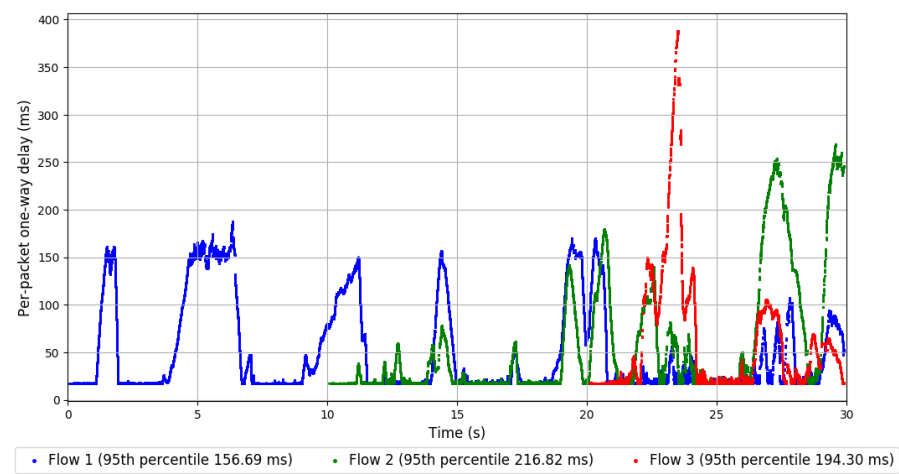
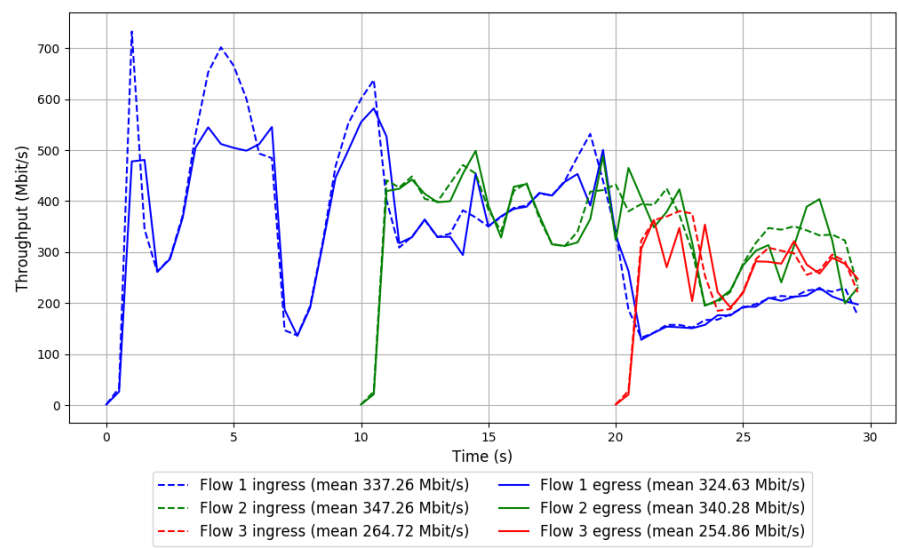
-- Flow 3:

Average throughput: 254.86 Mbit/s

95th percentile per-packet one-way delay: 194.297 ms

Loss rate: 3.73%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-03 23:32:52

End at: 2018-04-03 23:33:22

Local clock offset: 1.24 ms

Remote clock offset: 0.44 ms

Below is generated by plot.py at 2018-04-04 07:19:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 650.34 Mbit/s

95th percentile per-packet one-way delay: 113.439 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 354.43 Mbit/s

95th percentile per-packet one-way delay: 51.679 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 348.08 Mbit/s

95th percentile per-packet one-way delay: 151.661 ms

Loss rate: 0.79%

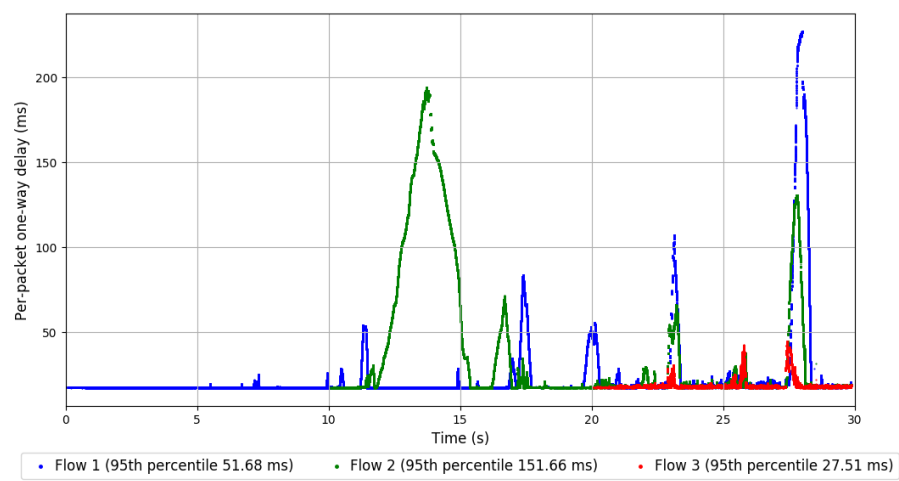
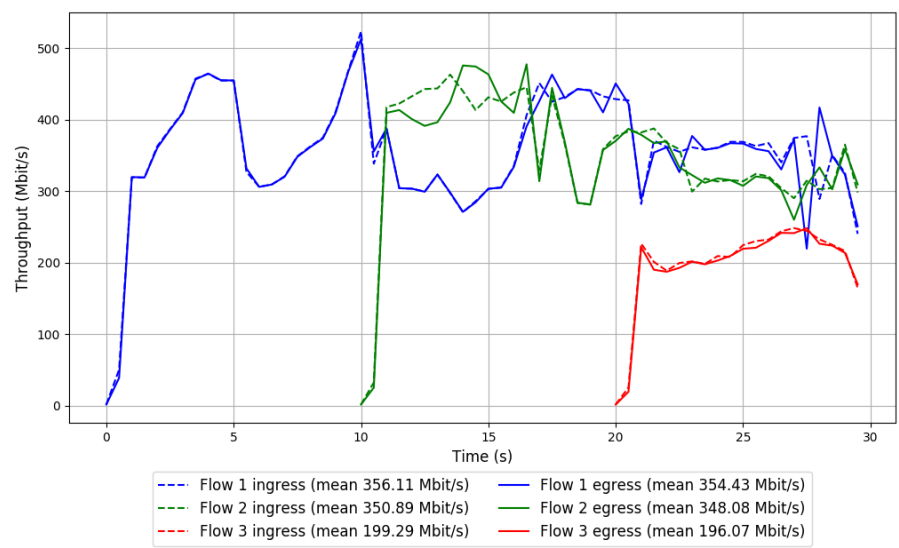
-- Flow 3:

Average throughput: 196.07 Mbit/s

95th percentile per-packet one-way delay: 27.514 ms

Loss rate: 1.60%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-04 00:01:42

End at: 2018-04-04 00:02:12

Local clock offset: 0.799 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at 2018-04-04 07:20:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 680.71 Mbit/s

95th percentile per-packet one-way delay: 148.918 ms

Loss rate: 3.17%

-- Flow 1:

Average throughput: 377.18 Mbit/s

95th percentile per-packet one-way delay: 150.546 ms

Loss rate: 4.36%

-- Flow 2:

Average throughput: 354.63 Mbit/s

95th percentile per-packet one-way delay: 150.445 ms

Loss rate: 1.53%

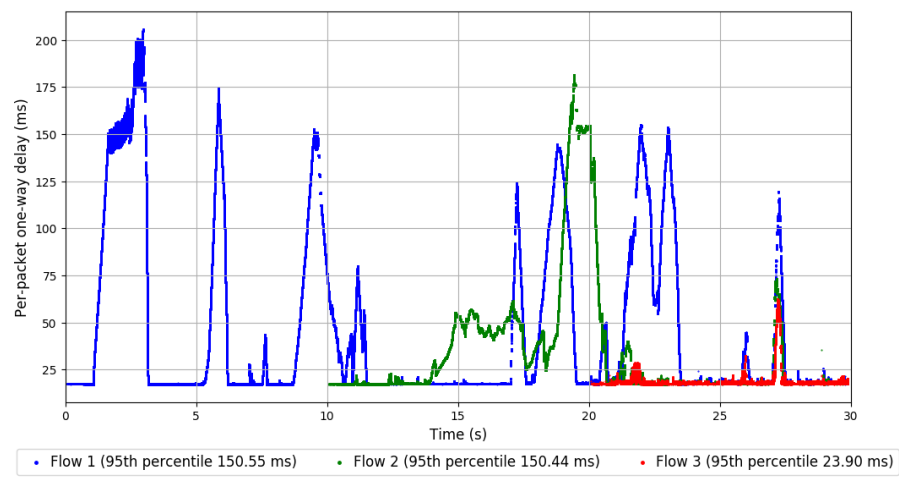
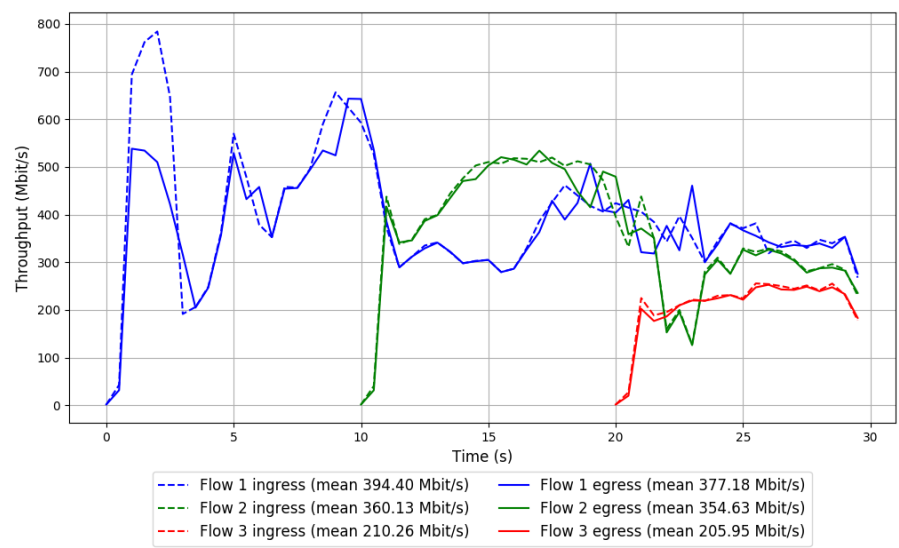
-- Flow 3:

Average throughput: 205.95 Mbit/s

95th percentile per-packet one-way delay: 23.897 ms

Loss rate: 2.05%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-04 00:30:24

End at: 2018-04-04 00:30:54

Local clock offset: 0.242 ms

Remote clock offset: 0.46 ms

Below is generated by plot.py at 2018-04-04 07:20:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 628.75 Mbit/s

95th percentile per-packet one-way delay: 149.867 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 367.74 Mbit/s

95th percentile per-packet one-way delay: 120.494 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 283.77 Mbit/s

95th percentile per-packet one-way delay: 189.679 ms

Loss rate: 3.94%

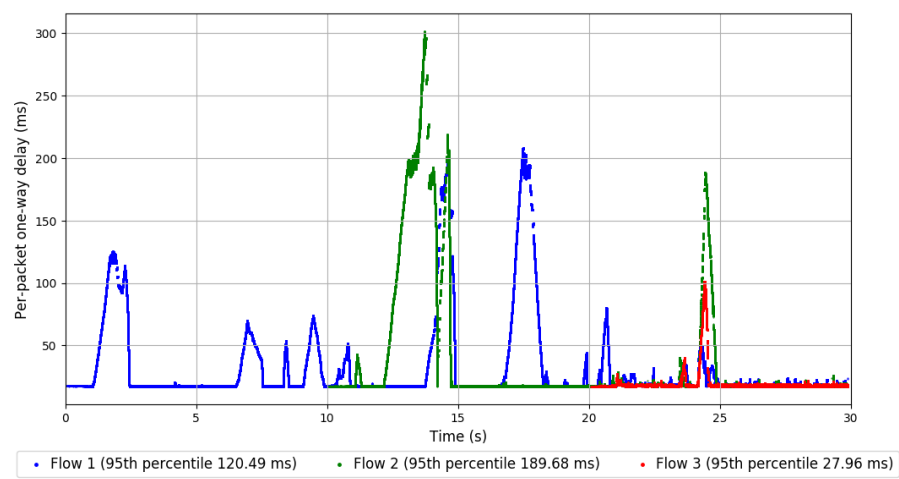
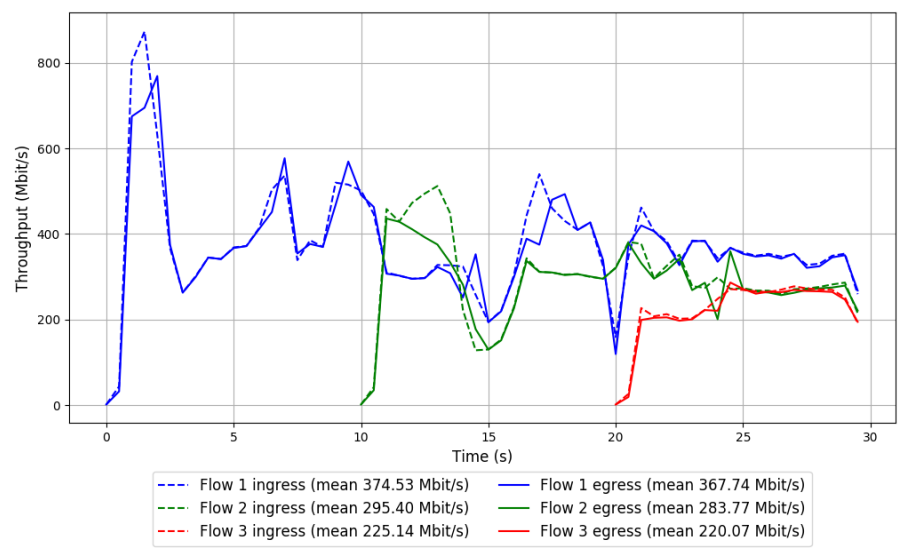
-- Flow 3:

Average throughput: 220.07 Mbit/s

95th percentile per-packet one-way delay: 27.959 ms

Loss rate: 2.25%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-04 00:59:17

End at: 2018-04-04 00:59:47

Local clock offset: 0.028 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2018-04-04 07:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 650.15 Mbit/s

95th percentile per-packet one-way delay: 130.131 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 359.96 Mbit/s

95th percentile per-packet one-way delay: 144.153 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 283.33 Mbit/s

95th percentile per-packet one-way delay: 142.033 ms

Loss rate: 1.72%

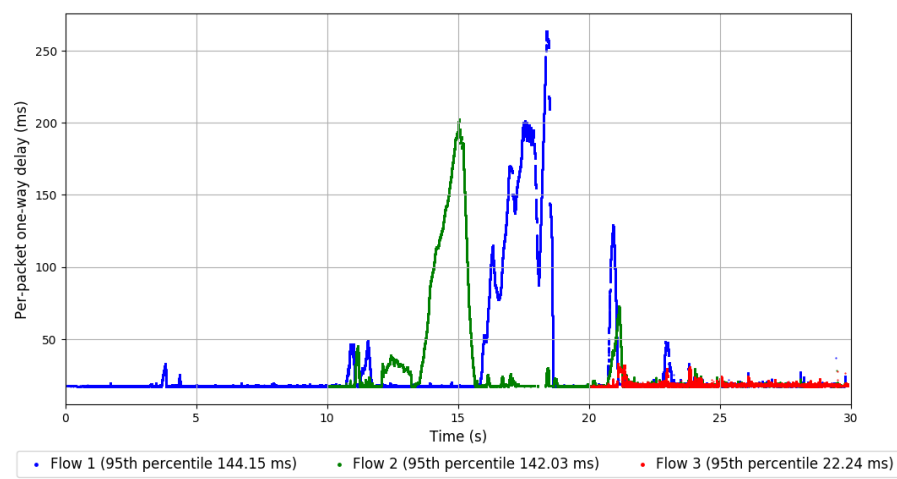
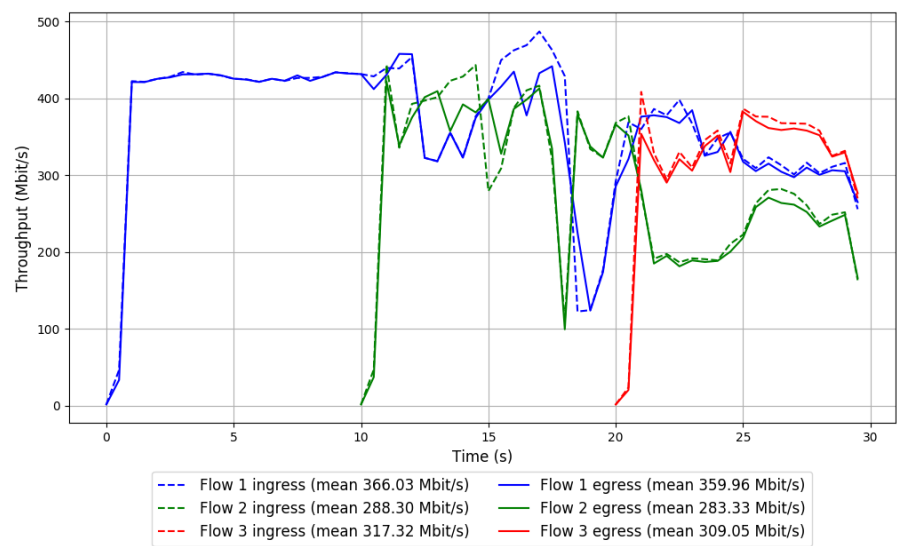
-- Flow 3:

Average throughput: 309.05 Mbit/s

95th percentile per-packet one-way delay: 22.240 ms

Loss rate: 2.60%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-04 01:28:05

End at: 2018-04-04 01:28:35

Local clock offset: 0.205 ms

Remote clock offset: 0.314 ms

Below is generated by plot.py at 2018-04-04 07:24:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 686.43 Mbit/s

95th percentile per-packet one-way delay: 147.356 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 412.23 Mbit/s

95th percentile per-packet one-way delay: 163.579 ms

Loss rate: 3.86%

-- Flow 2:

Average throughput: 318.06 Mbit/s

95th percentile per-packet one-way delay: 37.753 ms

Loss rate: 1.06%

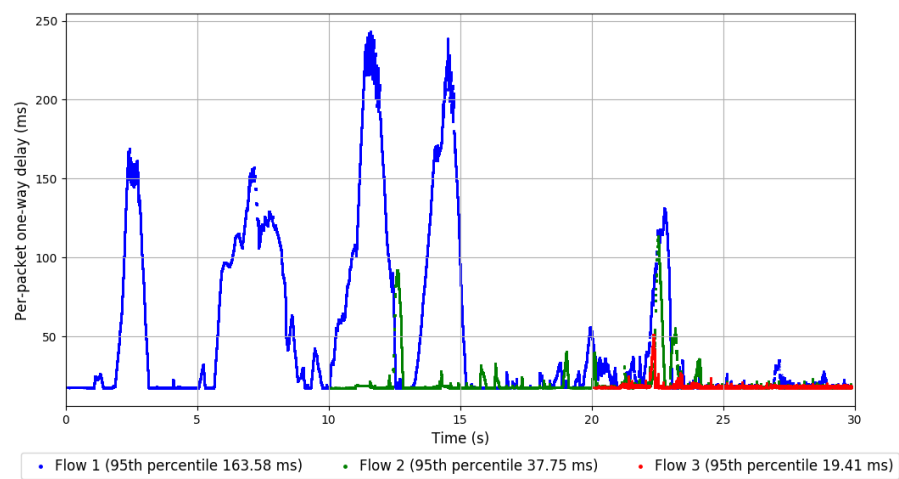
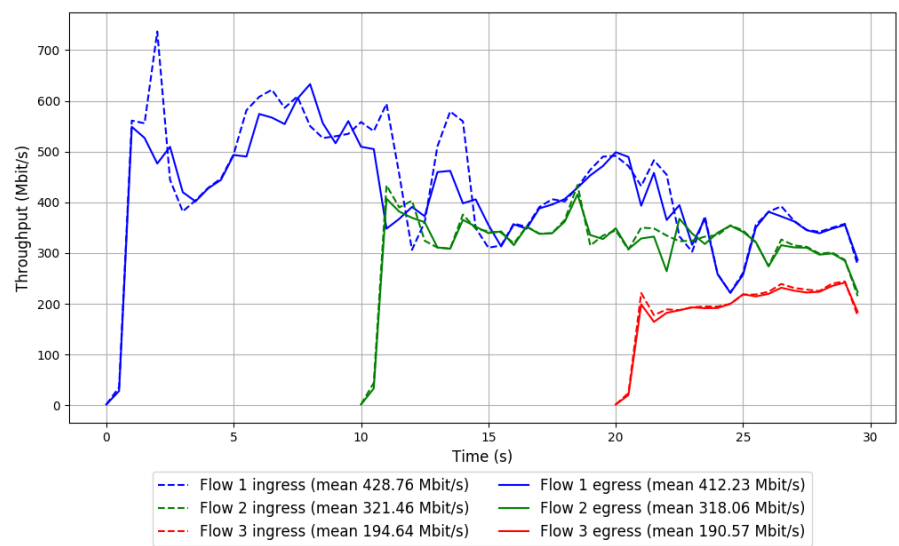
-- Flow 3:

Average throughput: 190.57 Mbit/s

95th percentile per-packet one-way delay: 19.410 ms

Loss rate: 2.09%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-04 01:56:54

End at: 2018-04-04 01:57:24

Local clock offset: 0.085 ms

Remote clock offset: 0.333 ms

Below is generated by plot.py at 2018-04-04 07:25:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 672.47 Mbit/s

95th percentile per-packet one-way delay: 158.670 ms

Loss rate: 3.20%

-- Flow 1:

Average throughput: 348.93 Mbit/s

95th percentile per-packet one-way delay: 166.317 ms

Loss rate: 5.31%

-- Flow 2:

Average throughput: 350.86 Mbit/s

95th percentile per-packet one-way delay: 97.140 ms

Loss rate: 0.84%

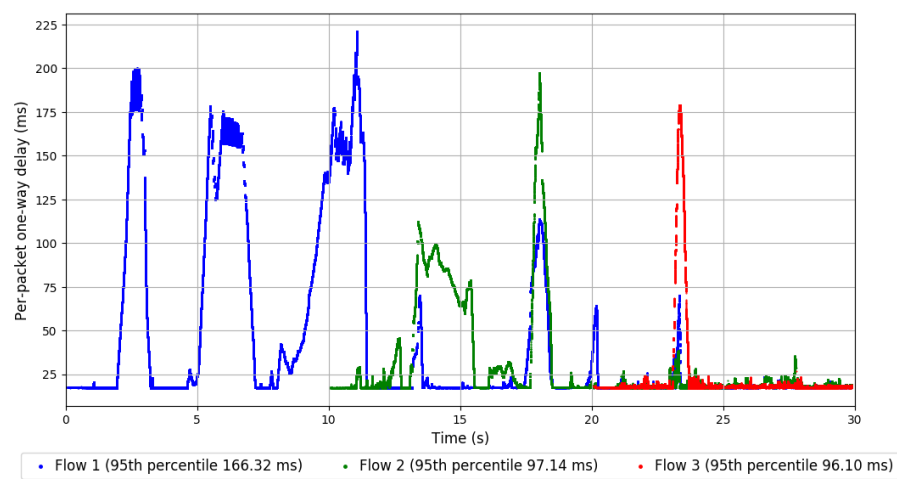
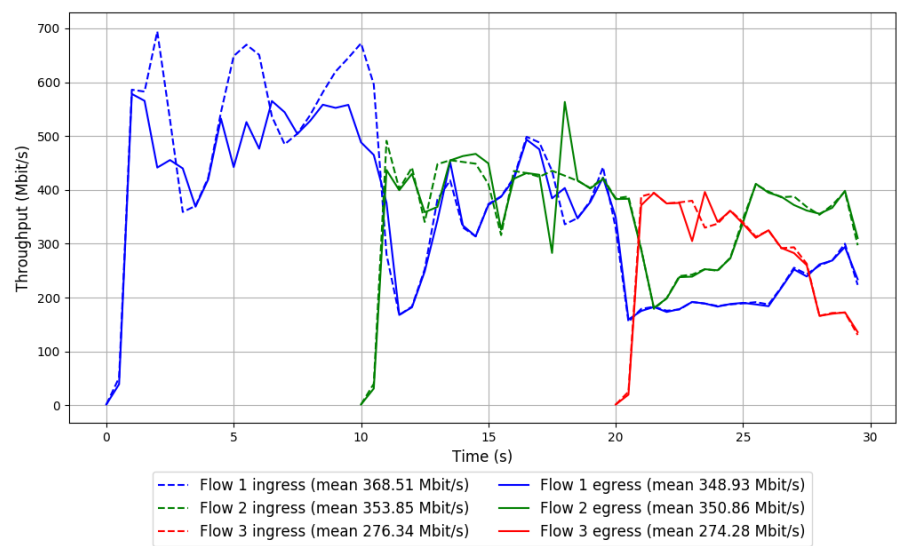
-- Flow 3:

Average throughput: 274.28 Mbit/s

95th percentile per-packet one-way delay: 96.098 ms

Loss rate: 0.76%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-04 02:25:58

End at: 2018-04-04 02:26:28

Local clock offset: 0.437 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2018-04-04 07:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 673.55 Mbit/s

95th percentile per-packet one-way delay: 185.463 ms

Loss rate: 5.54%

-- Flow 1:

Average throughput: 375.19 Mbit/s

95th percentile per-packet one-way delay: 189.099 ms

Loss rate: 8.62%

-- Flow 2:

Average throughput: 337.84 Mbit/s

95th percentile per-packet one-way delay: 154.219 ms

Loss rate: 1.04%

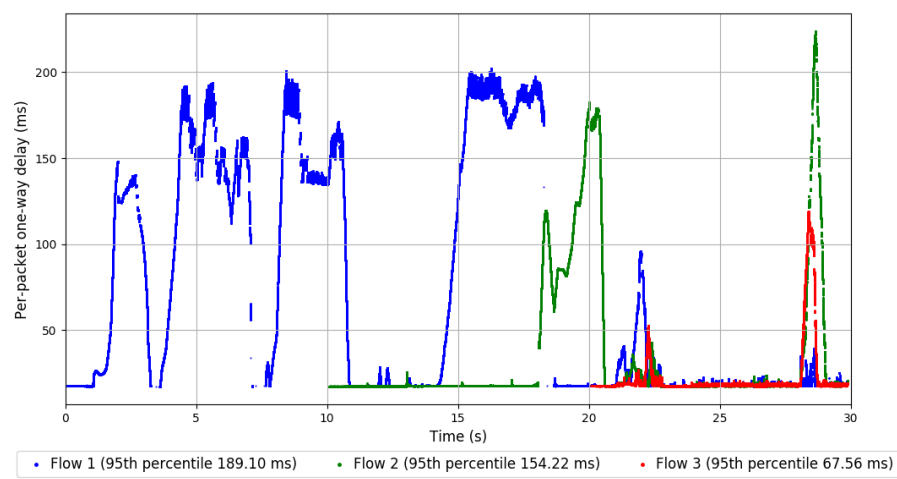
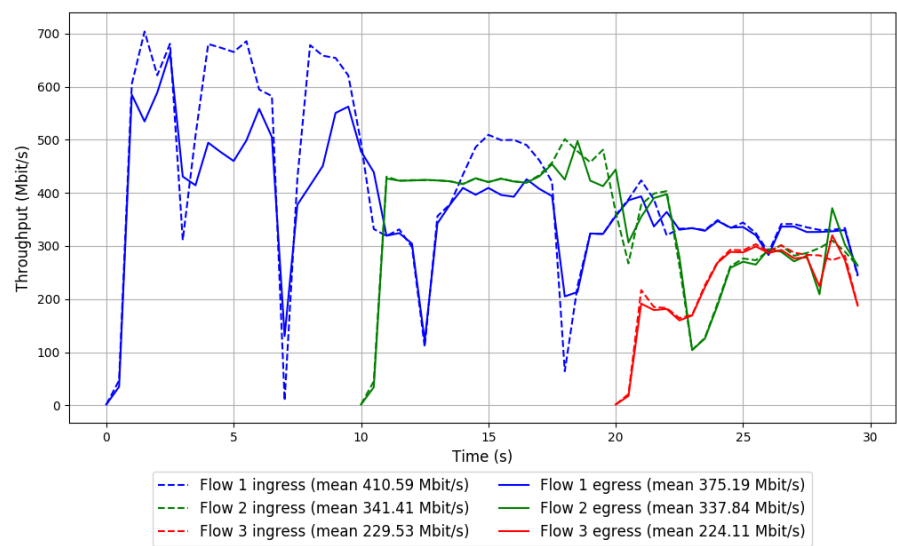
-- Flow 3:

Average throughput: 224.11 Mbit/s

95th percentile per-packet one-way delay: 67.558 ms

Loss rate: 2.35%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-04-03 22:04:59

End at: 2018-04-03 22:05:29

Local clock offset: 0.719 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-04-04 07:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 571.32 Mbit/s

95th percentile per-packet one-way delay: 44.142 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 341.79 Mbit/s

95th percentile per-packet one-way delay: 51.060 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 294.62 Mbit/s

95th percentile per-packet one-way delay: 37.992 ms

Loss rate: 0.19%

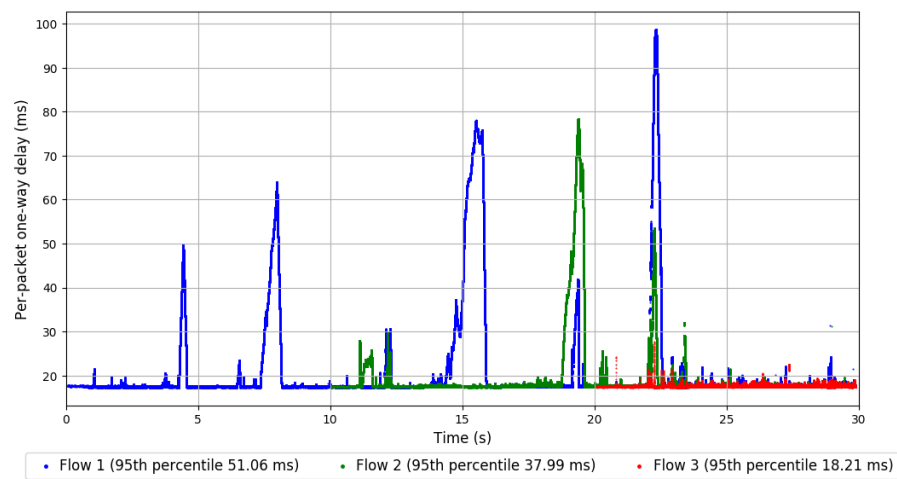
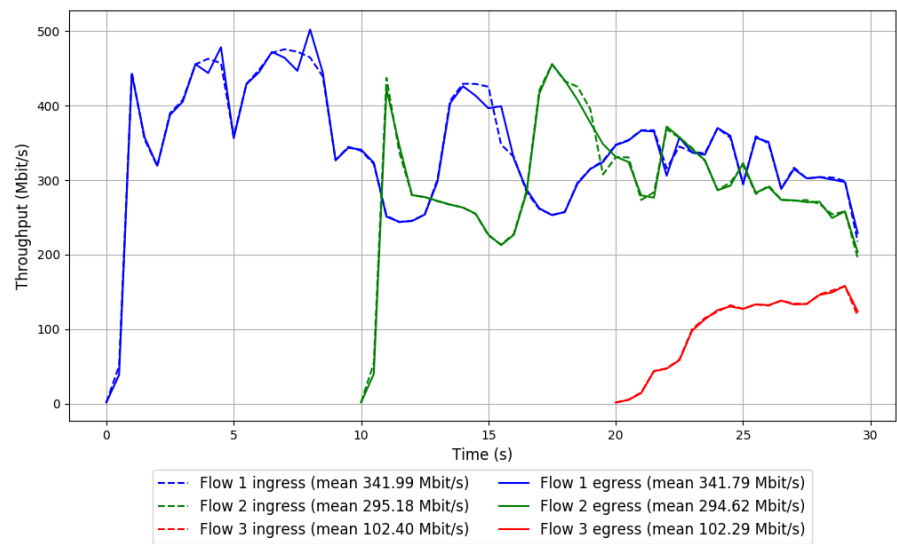
-- Flow 3:

Average throughput: 102.29 Mbit/s

95th percentile per-packet one-way delay: 18.212 ms

Loss rate: 0.16%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-03 22:33:46

End at: 2018-04-03 22:34:16

Local clock offset: 1.129 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-04-04 07:29:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 607.21 Mbit/s

95th percentile per-packet one-way delay: 144.516 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 338.43 Mbit/s

95th percentile per-packet one-way delay: 173.153 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 303.81 Mbit/s

95th percentile per-packet one-way delay: 21.875 ms

Loss rate: 0.19%

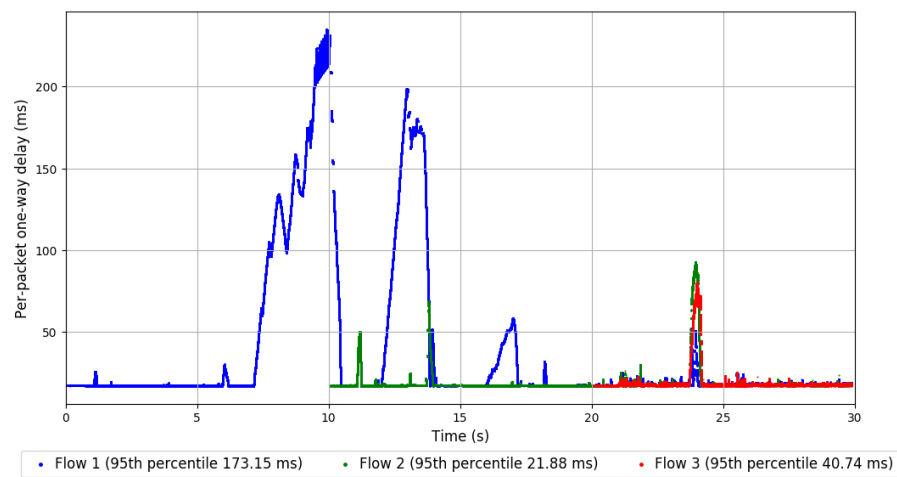
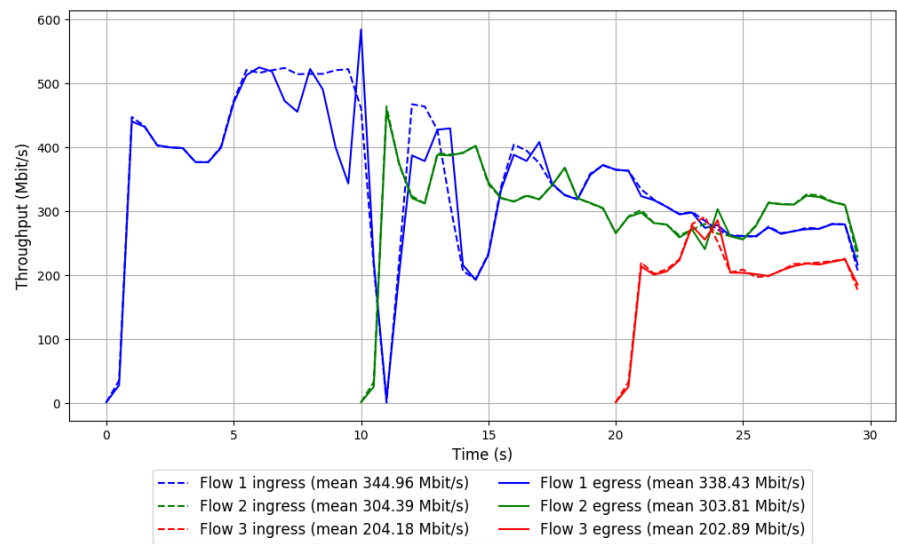
-- Flow 3:

Average throughput: 202.89 Mbit/s

95th percentile per-packet one-way delay: 40.741 ms

Loss rate: 0.63%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-03 23:02:43

End at: 2018-04-03 23:03:13

Local clock offset: 1.371 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2018-04-04 07:29:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.27 Mbit/s

95th percentile per-packet one-way delay: 139.975 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 307.94 Mbit/s

95th percentile per-packet one-way delay: 61.972 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 272.11 Mbit/s

95th percentile per-packet one-way delay: 274.517 ms

Loss rate: 2.28%

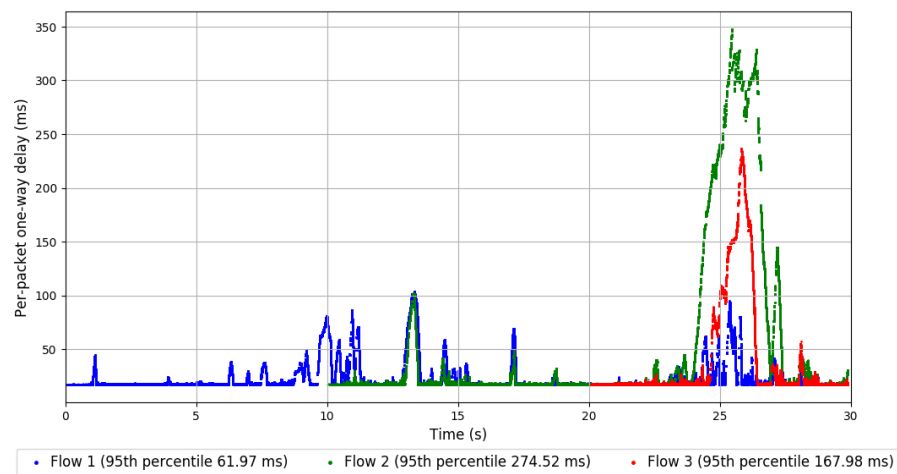
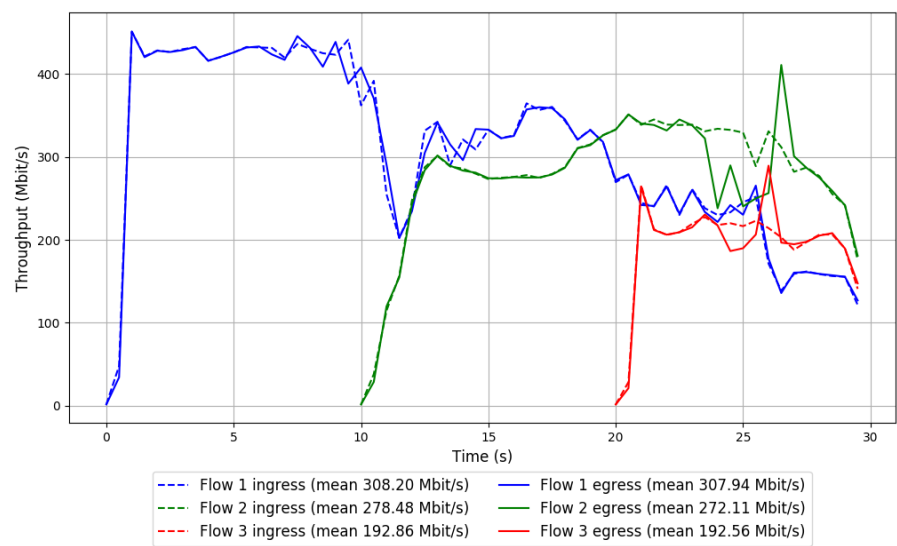
-- Flow 3:

Average throughput: 192.56 Mbit/s

95th percentile per-packet one-way delay: 167.978 ms

Loss rate: 0.15%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-03 23:31:02

End at: 2018-04-03 23:31:32

Local clock offset: 1.262 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-04-04 07:29:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 597.38 Mbit/s

95th percentile per-packet one-way delay: 69.417 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 356.68 Mbit/s

95th percentile per-packet one-way delay: 107.928 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 279.83 Mbit/s

95th percentile per-packet one-way delay: 39.579 ms

Loss rate: 0.17%

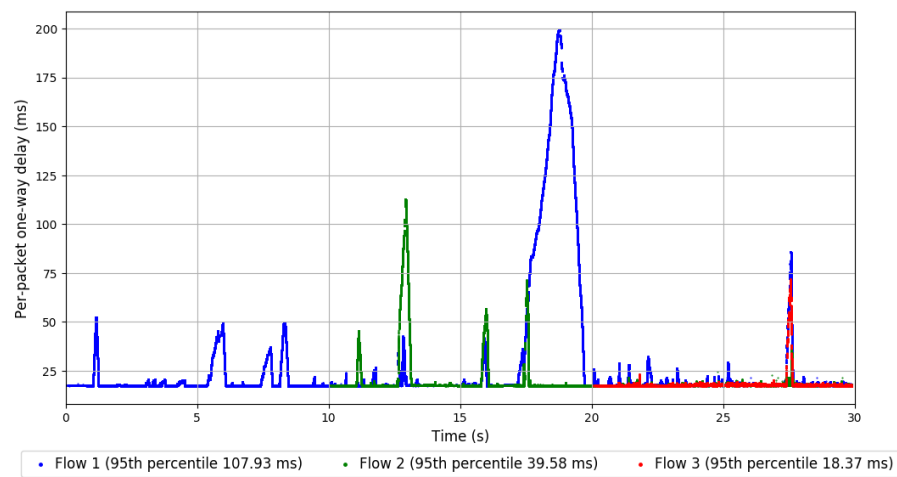
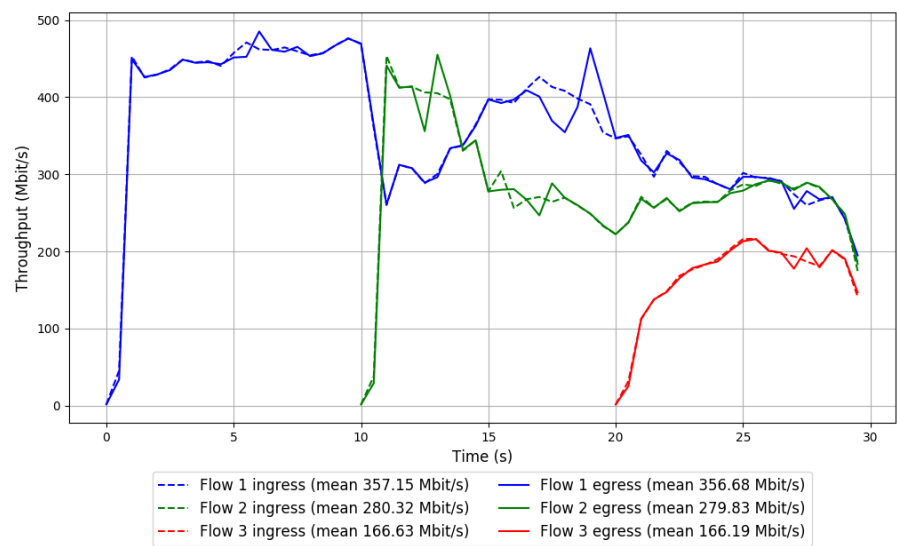
-- Flow 3:

Average throughput: 166.19 Mbit/s

95th percentile per-packet one-way delay: 18.371 ms

Loss rate: 0.26%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-03 23:59:50

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

Local clock offset: 0.82 ms

Remote clock offset: 0.56 ms

Below is generated by plot.py at 2018-04-04 07:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 637.05 Mbit/s

95th percentile per-packet one-way delay: 50.317 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 361.80 Mbit/s

95th percentile per-packet one-way delay: 62.671 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 329.42 Mbit/s

95th percentile per-packet one-way delay: 19.079 ms

Loss rate: 0.20%

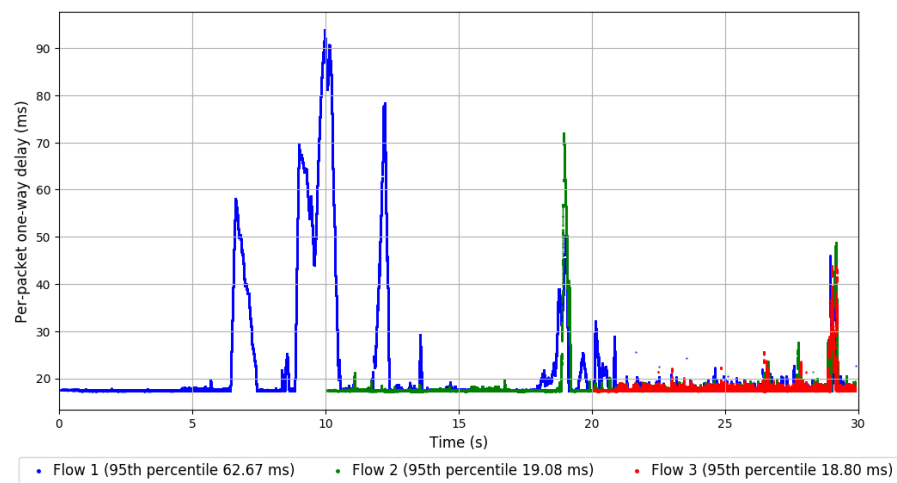
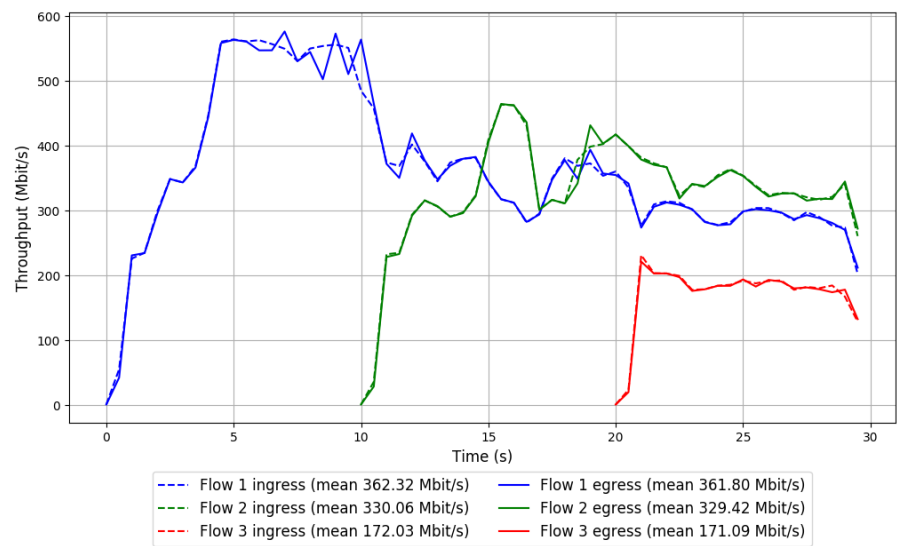
-- Flow 3:

Average throughput: 171.09 Mbit/s

95th percentile per-packet one-way delay: 18.797 ms

Loss rate: 0.55%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-04 00:28:32

End at: 2018-04-04 00:29:02

Local clock offset: 0.316 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-04-04 07:32:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 628.83 Mbit/s

95th percentile per-packet one-way delay: 45.591 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 333.03 Mbit/s

95th percentile per-packet one-way delay: 37.466 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 345.87 Mbit/s

95th percentile per-packet one-way delay: 88.064 ms

Loss rate: 0.29%

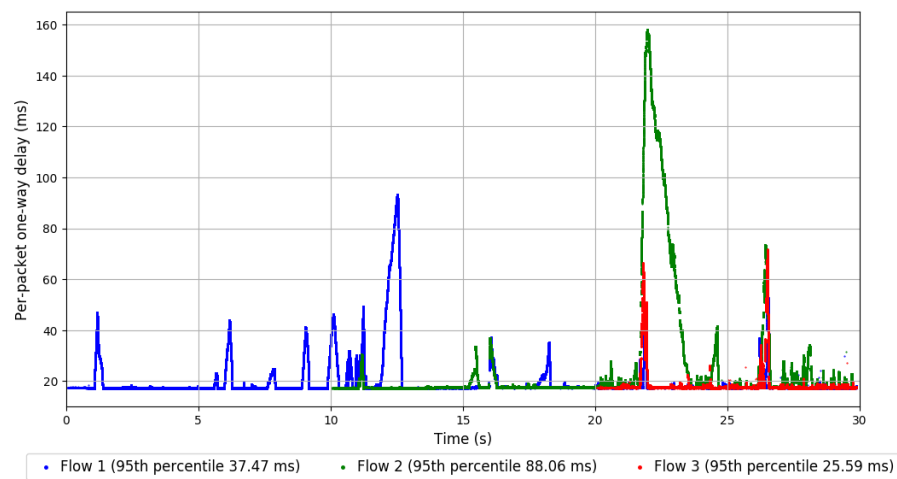
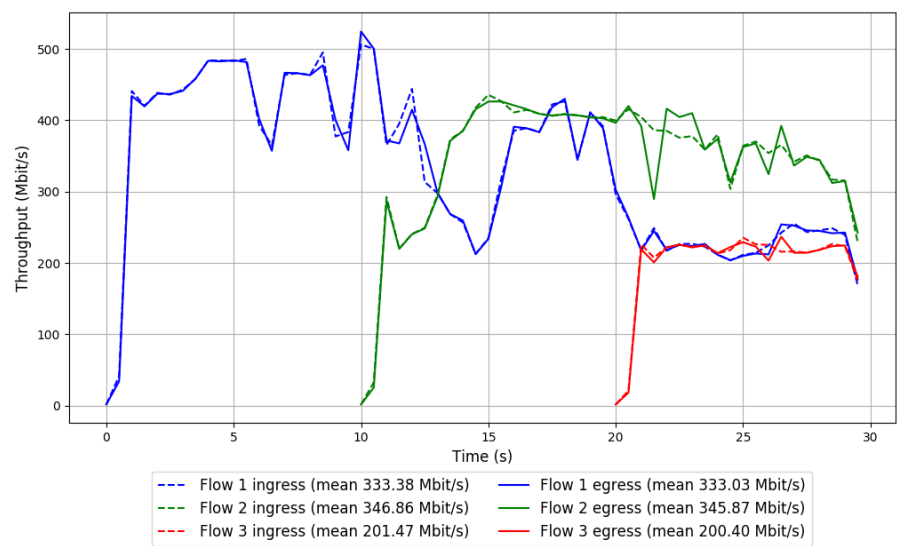
-- Flow 3:

Average throughput: 200.40 Mbit/s

95th percentile per-packet one-way delay: 25.586 ms

Loss rate: 0.53%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-04 00:57:26

End at: 2018-04-04 00:57:56

Local clock offset: 0.071 ms

Remote clock offset: 0.41 ms

Below is generated by plot.py at 2018-04-04 07:33:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 630.58 Mbit/s

95th percentile per-packet one-way delay: 118.550 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 391.34 Mbit/s

95th percentile per-packet one-way delay: 135.907 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 304.92 Mbit/s

95th percentile per-packet one-way delay: 33.023 ms

Loss rate: 0.23%

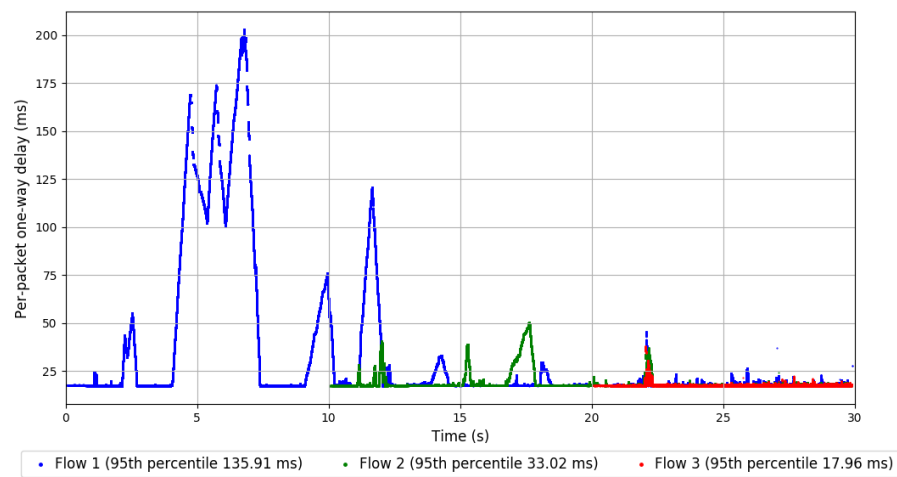
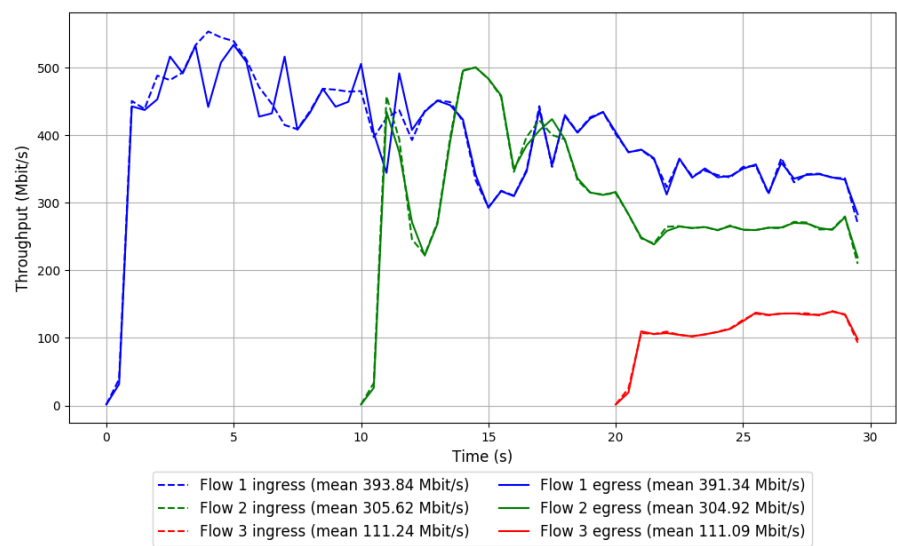
-- Flow 3:

Average throughput: 111.09 Mbit/s

95th percentile per-packet one-way delay: 17.959 ms

Loss rate: 0.14%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-04 01:26:12

End at: 2018-04-04 01:26:42

Local clock offset: 0.225 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-04-04 07:34:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 660.74 Mbit/s

95th percentile per-packet one-way delay: 160.057 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 393.80 Mbit/s

95th percentile per-packet one-way delay: 140.120 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 331.41 Mbit/s

95th percentile per-packet one-way delay: 168.129 ms

Loss rate: 0.24%

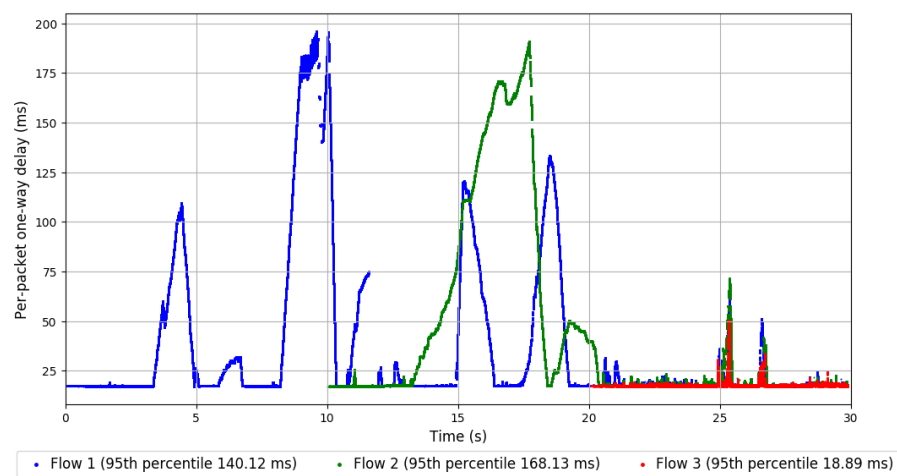
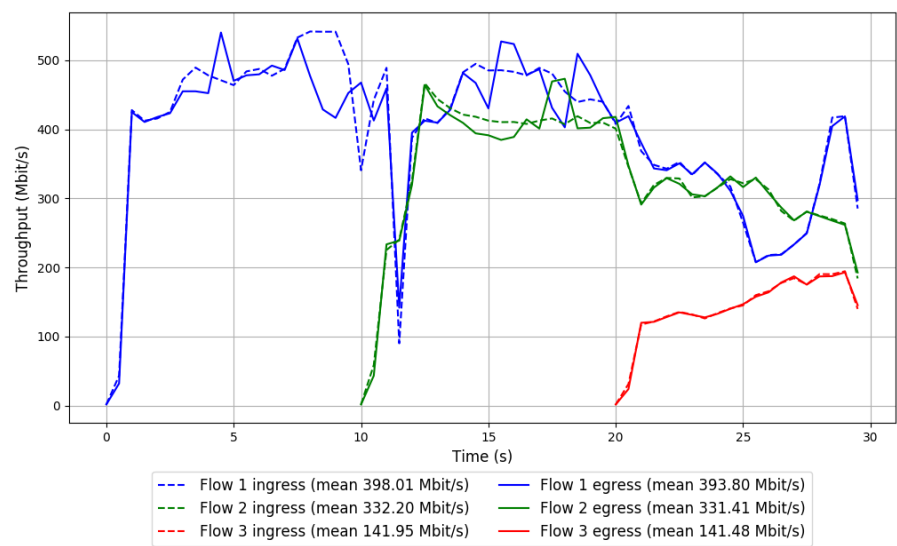
-- Flow 3:

Average throughput: 141.48 Mbit/s

95th percentile per-packet one-way delay: 18.893 ms

Loss rate: 0.33%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-04 01:55:03

End at: 2018-04-04 01:55:33

Local clock offset: 0.086 ms

Remote clock offset: 0.371 ms

Below is generated by plot.py at 2018-04-04 07:34:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 619.28 Mbit/s

95th percentile per-packet one-way delay: 82.423 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 371.53 Mbit/s

95th percentile per-packet one-way delay: 96.048 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 277.40 Mbit/s

95th percentile per-packet one-way delay: 18.610 ms

Loss rate: 0.24%

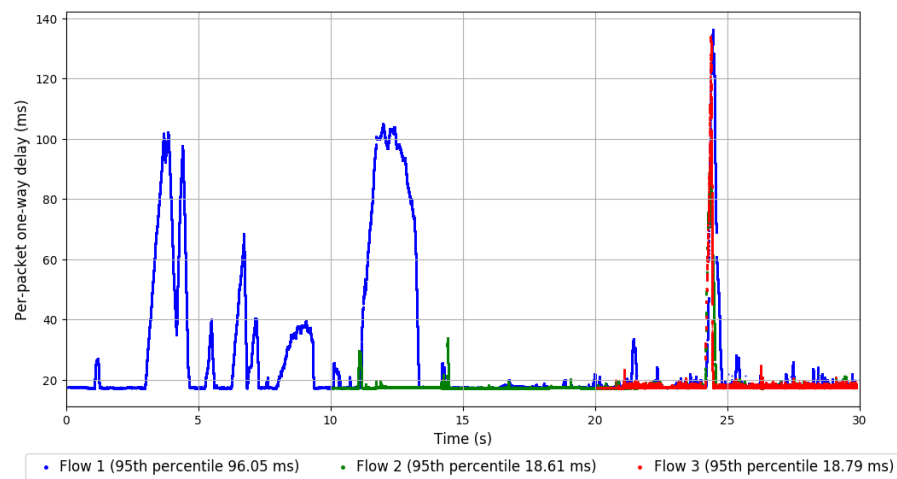
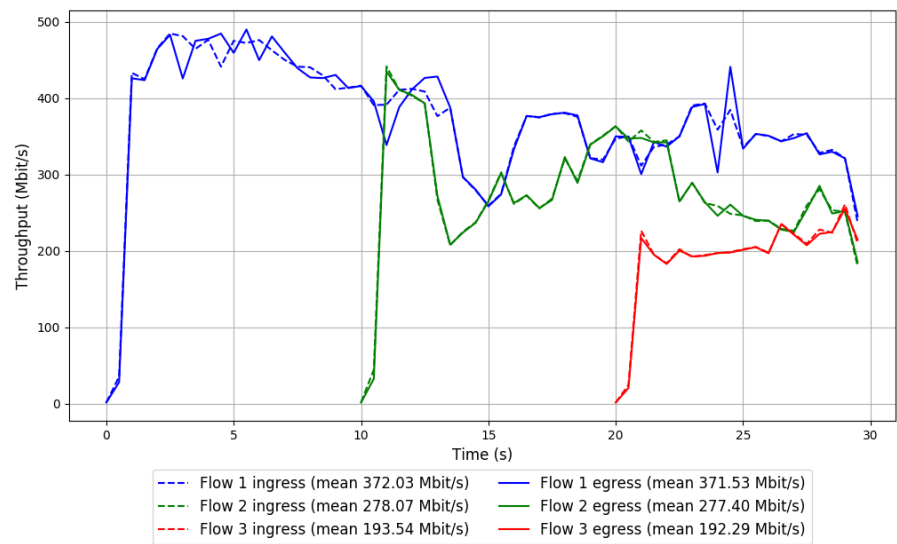
-- Flow 3:

Average throughput: 192.29 Mbit/s

95th percentile per-packet one-way delay: 18.789 ms

Loss rate: 0.72%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-04 02:24:09

End at: 2018-04-04 02:24:39

Local clock offset: 0.576 ms

Remote clock offset: 0.515 ms

Below is generated by plot.py at 2018-04-04 07:34:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.66 Mbit/s

95th percentile per-packet one-way delay: 123.032 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 368.76 Mbit/s

95th percentile per-packet one-way delay: 146.750 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 287.32 Mbit/s

95th percentile per-packet one-way delay: 51.627 ms

Loss rate: 0.06%

-- Flow 3:

Average throughput: 100.04 Mbit/s

95th percentile per-packet one-way delay: 20.866 ms

Loss rate: 0.04%

Run 10: Report of Vivace-LTE — Data Link

