

Pantheon Report

Generated at 2018-02-04 03:31:52 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia 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).

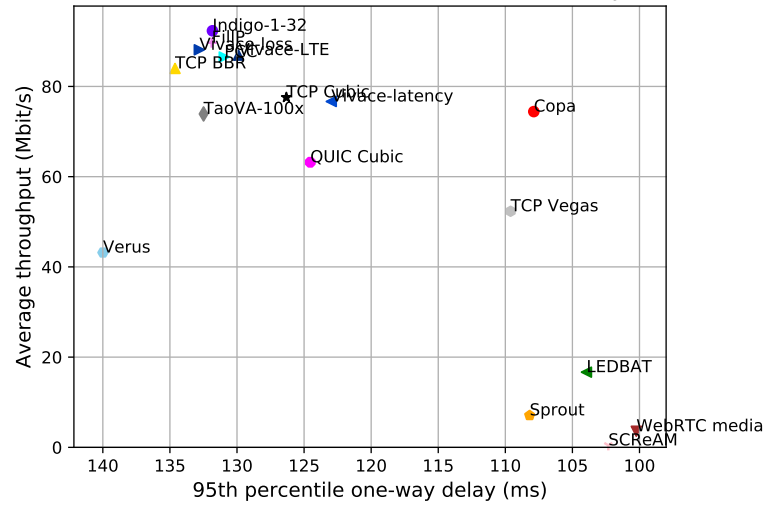
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

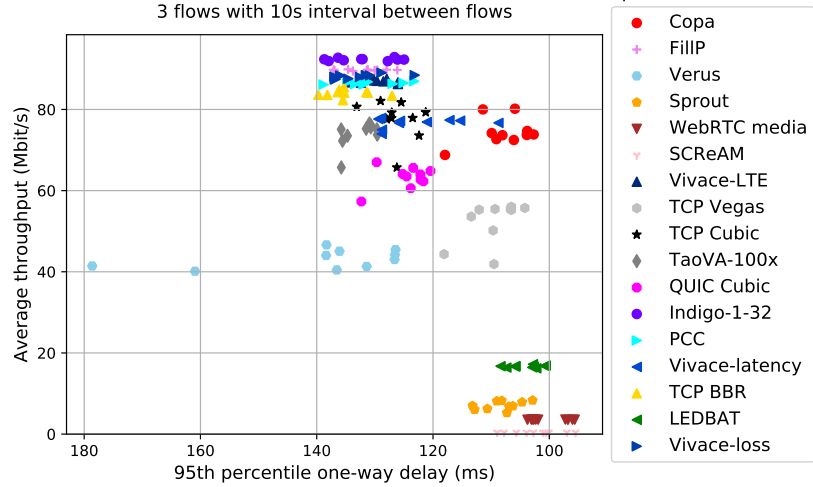
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
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 @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 2 Ethernet to Colombia 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	52.56	34.79	24.89	133.93	131.40	131.53	7.11	10.08	11.95
TCP Cubic	10	44.17	38.30	23.79	124.41	127.00	128.02	0.44	0.93	1.00
LEDBAT	10	10.81	7.11	3.47	102.86	103.10	102.75	0.00	0.00	0.00
PCC	10	77.44	10.35	6.68	130.92	130.51	131.31	2.95	4.14	4.79
QUIC Cubic	10	41.77	25.50	13.86	125.28	120.73	122.44	0.90	1.15	5.10
SCReAM	10	0.22	0.22	0.22	99.99	99.77	100.40	0.00	0.00	0.00
WebRTC media	10	2.02	1.20	0.37	98.54	99.03	100.27	0.00	0.00	0.00
Sprout	10	3.43	3.77	3.46	108.14	107.01	108.66	0.00	0.00	0.11
TaoVA-100x	10	48.74	27.23	21.41	131.40	132.29	131.36	4.37	9.44	12.05
TCP Vegas	10	22.95	28.08	32.20	108.74	109.81	109.43	0.61	0.77	1.27
Verus	10	25.27	20.06	14.61	137.49	136.07	133.71	37.04	37.12	28.27
Copa	10	45.60	35.09	16.46	103.91	109.64	113.98	0.00	0.00	0.00
FillP	10	52.91	37.46	35.76	129.21	129.08	128.47	13.89	20.82	26.79
Indigo-1-32	10	62.63	23.34	44.86	129.18	130.39	130.48	18.89	42.18	66.27
Vivace-latency	10	64.51	15.65	5.30	123.05	121.91	120.57	0.31	0.52	0.16
Vivace-loss	10	82.09	6.62	4.97	132.79	132.71	130.73	3.09	3.56	4.20
Vivace-LTE	10	75.33	12.52	10.05	129.85	131.44	131.51	3.05	2.19	2.65

Run 1: Statistics of TCP BBR

Start at: 2018-02-03 22:58:01

End at: 2018-02-03 22:58:31

Local clock offset: -0.022 ms

Remote clock offset: 2.358 ms

Below is generated by plot.py at 2018-02-04 03:08:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.63 Mbit/s

95th percentile per-packet one-way delay: 139.710 ms

Loss rate: 8.84%

-- Flow 1:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 139.786 ms

Loss rate: 7.42%

-- Flow 2:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 134.501 ms

Loss rate: 8.92%

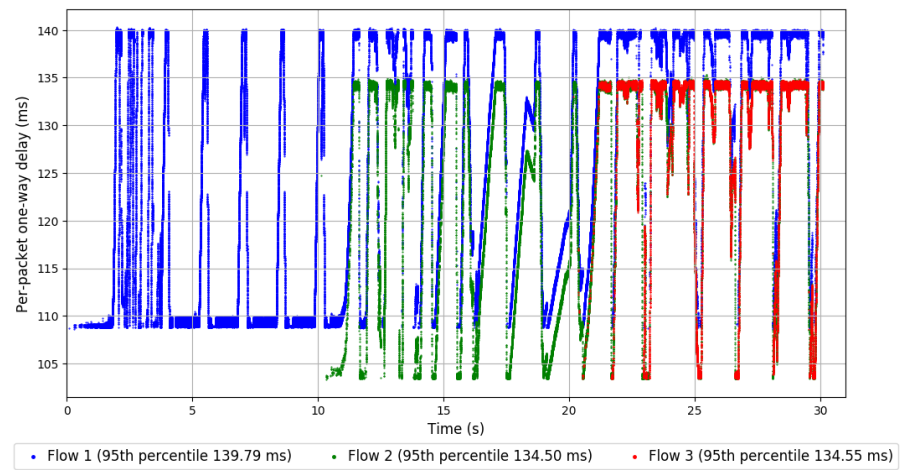
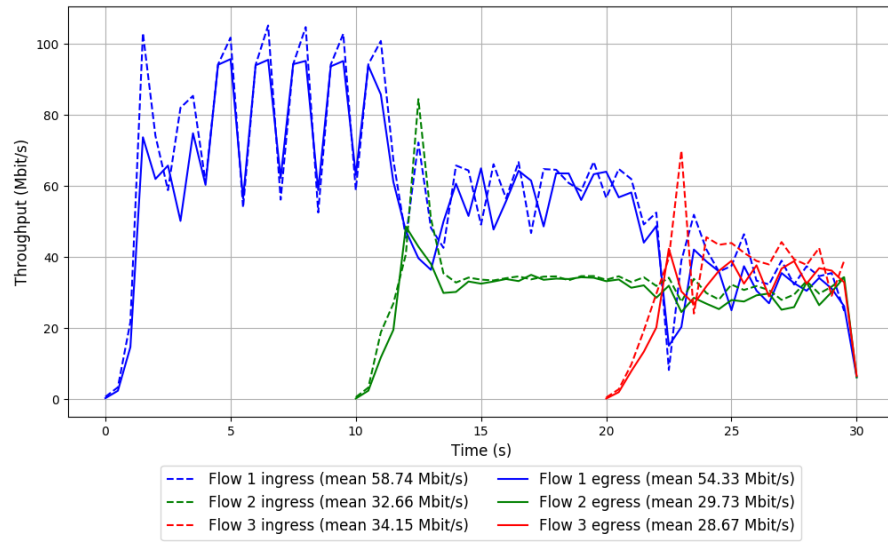
-- Flow 3:

Average throughput: 28.67 Mbit/s

95th percentile per-packet one-way delay: 134.546 ms

Loss rate: 16.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-03 23:20:31

End at: 2018-02-03 23:21:01

Local clock offset: -0.035 ms

Remote clock offset: 0.651 ms

Below is generated by plot.py at 2018-02-04 03:08:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.83 Mbit/s

95th percentile per-packet one-way delay: 136.137 ms

Loss rate: 9.64%

-- Flow 1:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 134.670 ms

Loss rate: 7.38%

-- Flow 2:

Average throughput: 37.28 Mbit/s

95th percentile per-packet one-way delay: 132.715 ms

Loss rate: 10.42%

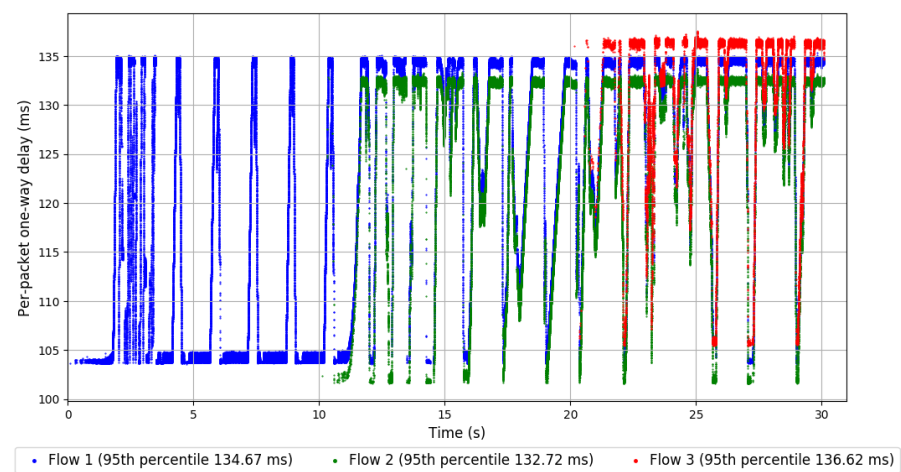
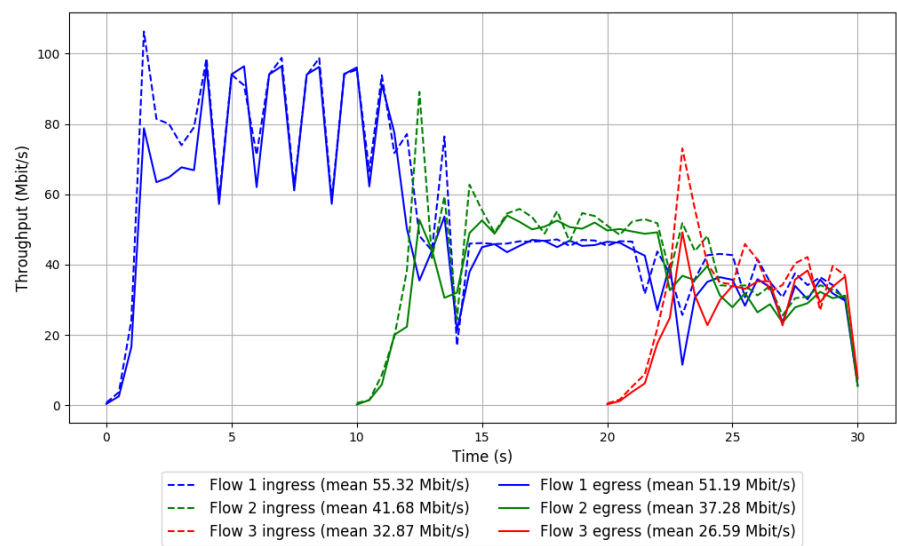
-- Flow 3:

Average throughput: 26.59 Mbit/s

95th percentile per-packet one-way delay: 136.616 ms

Loss rate: 19.10%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-03 23:43:00

End at: 2018-02-03 23:43:30

Local clock offset: -0.041 ms

Remote clock offset: 1.537 ms

Below is generated by plot.py at 2018-02-04 03:08:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 135.489 ms

Loss rate: 8.30%

-- Flow 1:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 132.829 ms

Loss rate: 7.66%

-- Flow 2:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 135.678 ms

Loss rate: 10.02%

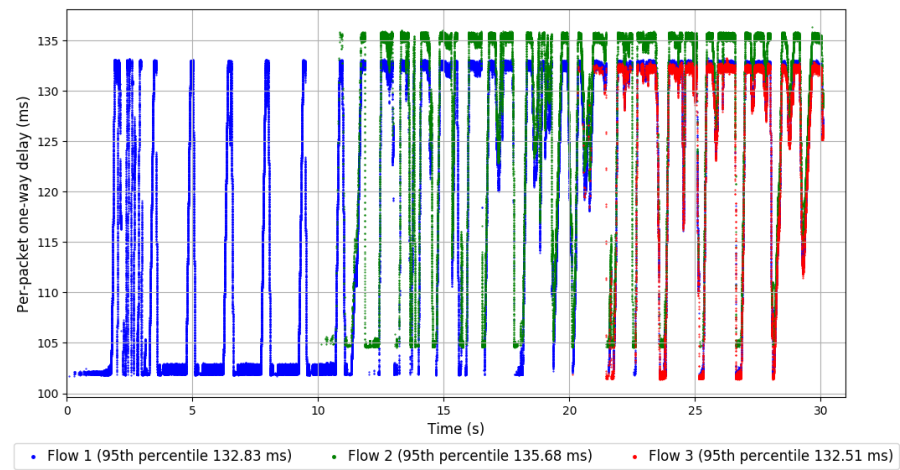
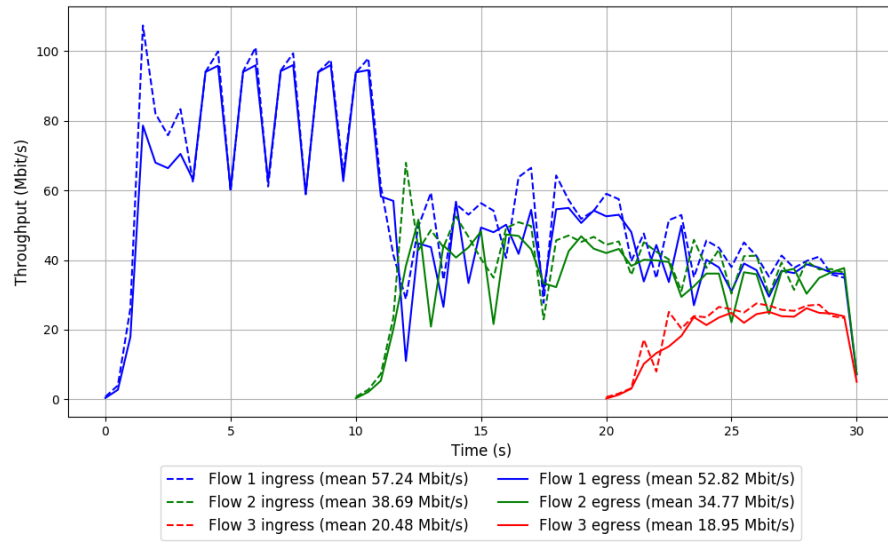
-- Flow 3:

Average throughput: 18.95 Mbit/s

95th percentile per-packet one-way delay: 132.507 ms

Loss rate: 7.25%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-04 00:05:32

End at: 2018-02-04 00:06:02

Local clock offset: 0.025 ms

Remote clock offset: 2.593 ms

Below is generated by plot.py at 2018-02-04 03:08:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 138.173 ms

Loss rate: 8.46%

-- Flow 1:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 138.251 ms

Loss rate: 7.47%

-- Flow 2:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 136.214 ms

Loss rate: 9.82%

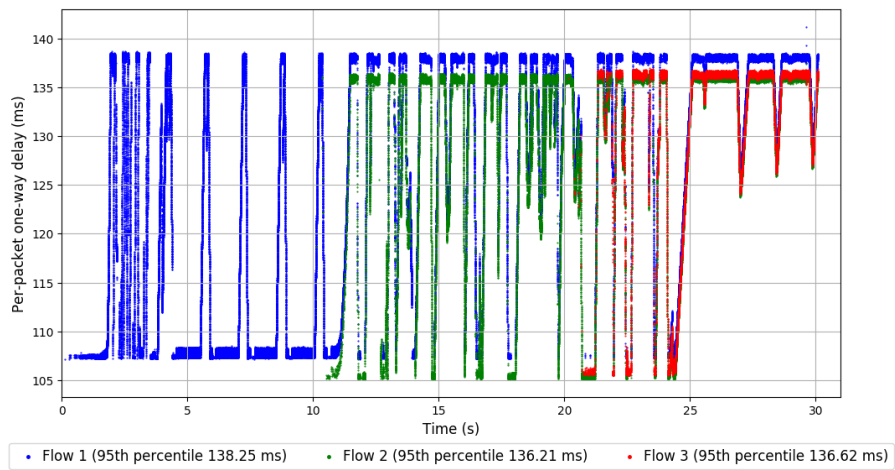
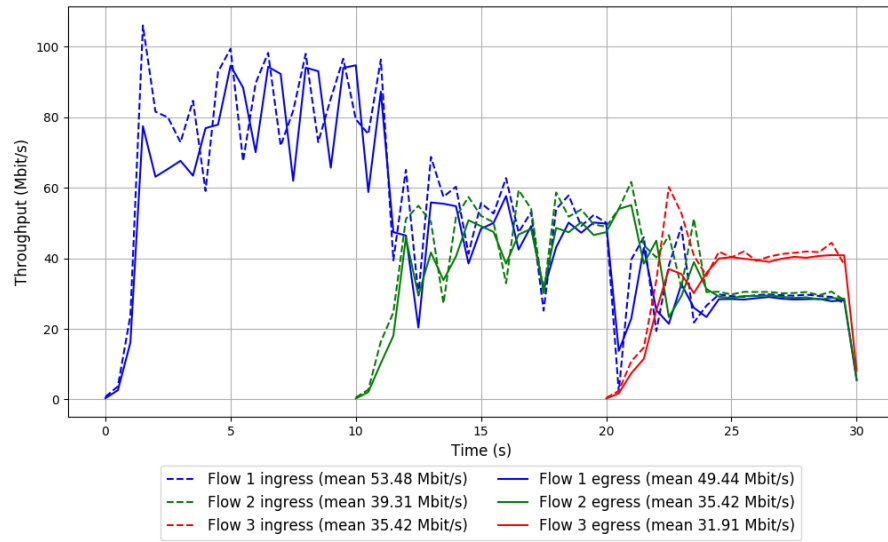
-- Flow 3:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 136.615 ms

Loss rate: 9.92%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-04 00:28:01

End at: 2018-02-04 00:28:31

Local clock offset: -0.009 ms

Remote clock offset: 2.203 ms

Below is generated by plot.py at 2018-02-04 03:08:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 135.293 ms

Loss rate: 6.77%

-- Flow 1:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 135.366 ms

Loss rate: 6.14%

-- Flow 2:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 129.170 ms

Loss rate: 7.70%

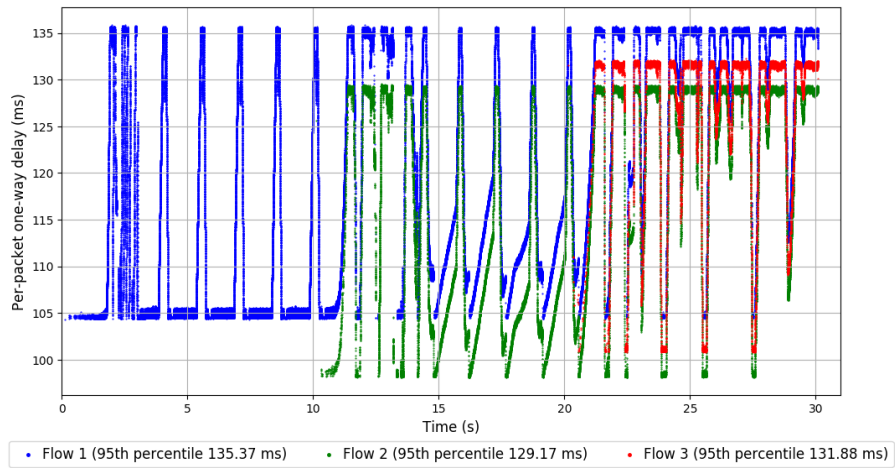
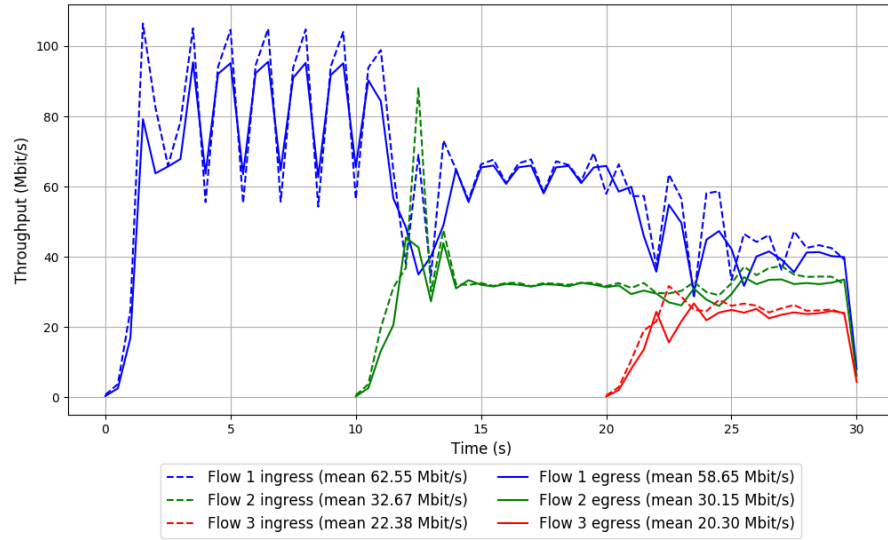
-- Flow 3:

Average throughput: 20.30 Mbit/s

95th percentile per-packet one-way delay: 131.884 ms

Loss rate: 9.29%

Run 5: Report of TCP BBR — Data Link

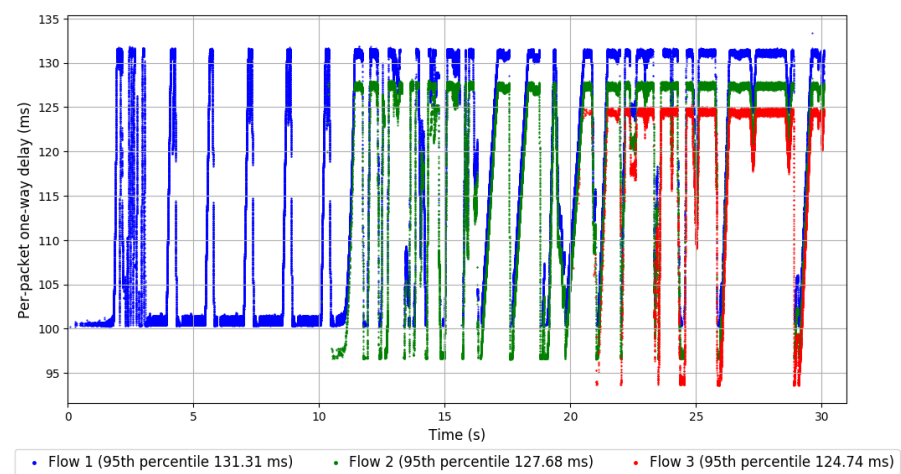
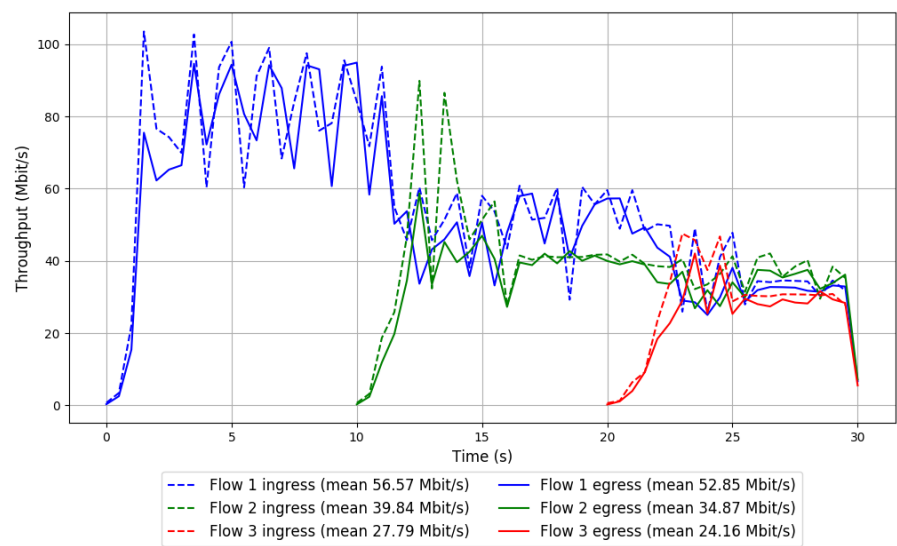


Run 6: Statistics of TCP BBR

Start at: 2018-02-04 00:50:30
End at: 2018-02-04 00:51:00
Local clock offset: 0.074 ms
Remote clock offset: -3.149 ms

Below is generated by plot.py at 2018-02-04 03:08:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.13 Mbit/s
95th percentile per-packet one-way delay: 131.240 ms
Loss rate: 8.82%
-- Flow 1:
Average throughput: 52.85 Mbit/s
95th percentile per-packet one-way delay: 131.312 ms
Loss rate: 6.49%
-- Flow 2:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 127.677 ms
Loss rate: 12.37%
-- Flow 3:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 124.737 ms
Loss rate: 12.92%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-04 01:12:58

End at: 2018-02-04 01:13:28

Local clock offset: 0.025 ms

Remote clock offset: 2.126 ms

Below is generated by plot.py at 2018-02-04 03:08:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 8.85%

-- Flow 1:

Average throughput: 49.33 Mbit/s

95th percentile per-packet one-way delay: 136.477 ms

Loss rate: 7.42%

-- Flow 2:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 130.951 ms

Loss rate: 9.36%

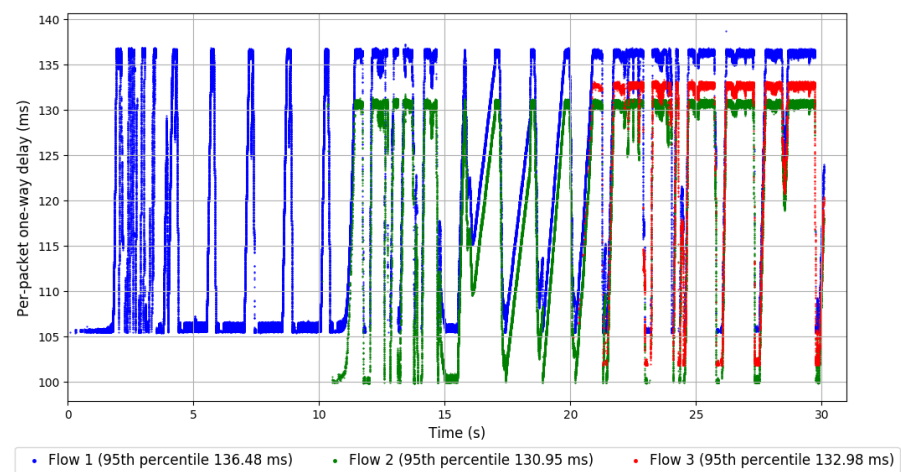
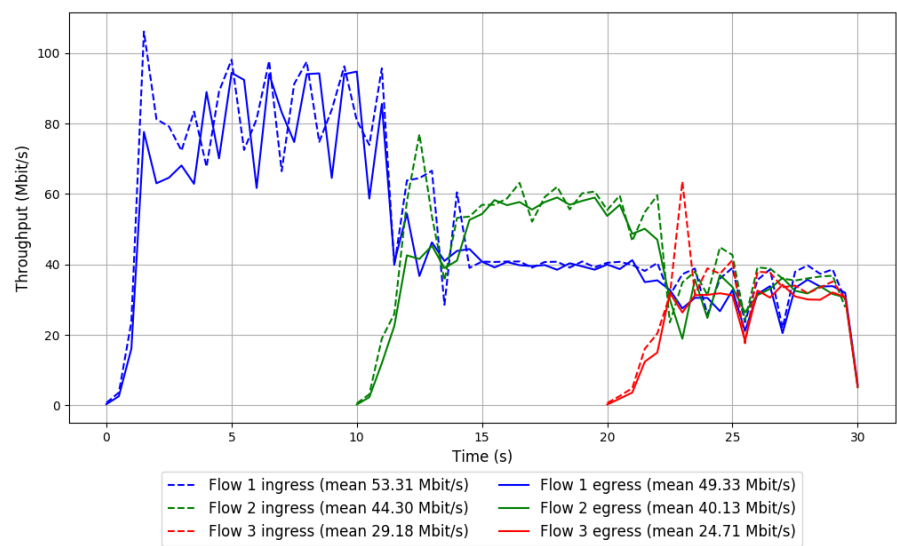
-- Flow 3:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 132.977 ms

Loss rate: 15.19%

Run 7: Report of TCP BBR — Data Link

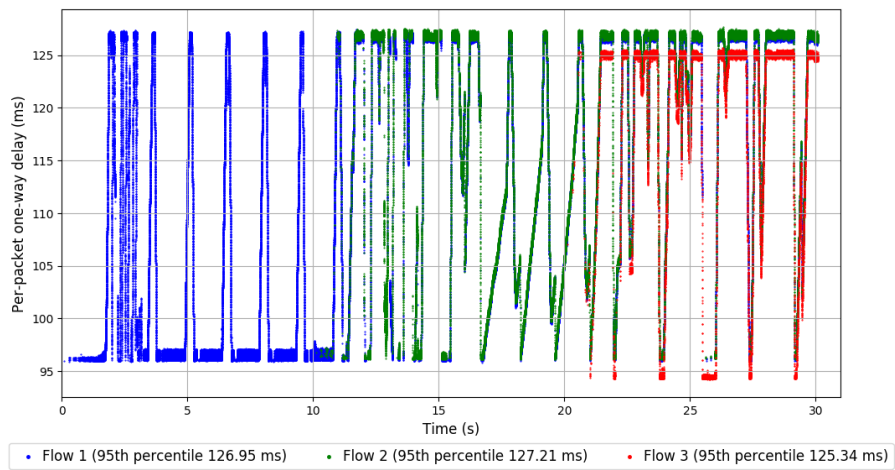
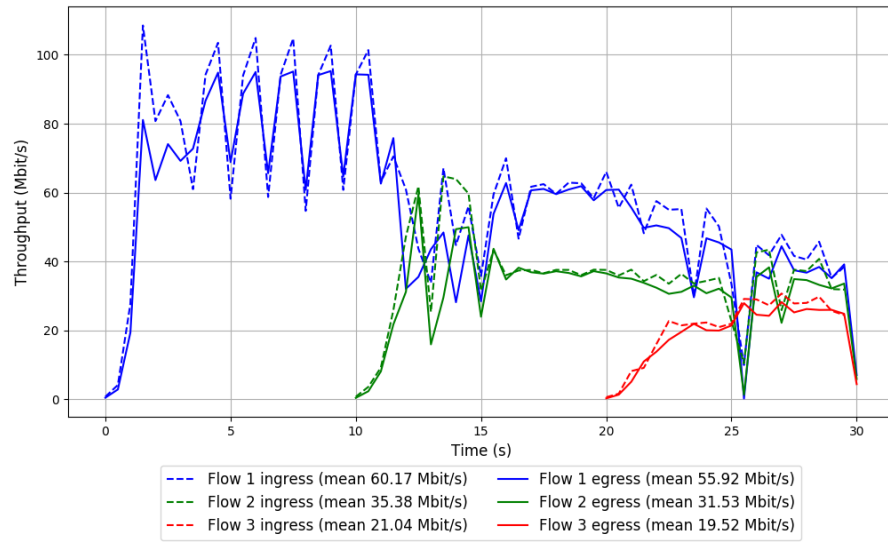


Run 8: Statistics of TCP BBR

Start at: 2018-02-04 01:35:27
End at: 2018-02-04 01:35:57
Local clock offset: 0.069 ms
Remote clock offset: -1.718 ms

Below is generated by plot.py at 2018-02-04 03:08:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.40 Mbit/s
95th percentile per-packet one-way delay: 127.051 ms
Loss rate: 7.97%
-- Flow 1:
Average throughput: 55.92 Mbit/s
95th percentile per-packet one-way delay: 126.947 ms
Loss rate: 6.98%
-- Flow 2:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 127.210 ms
Loss rate: 10.74%
-- Flow 3:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 125.337 ms
Loss rate: 7.08%

Run 8: Report of TCP BBR — Data Link

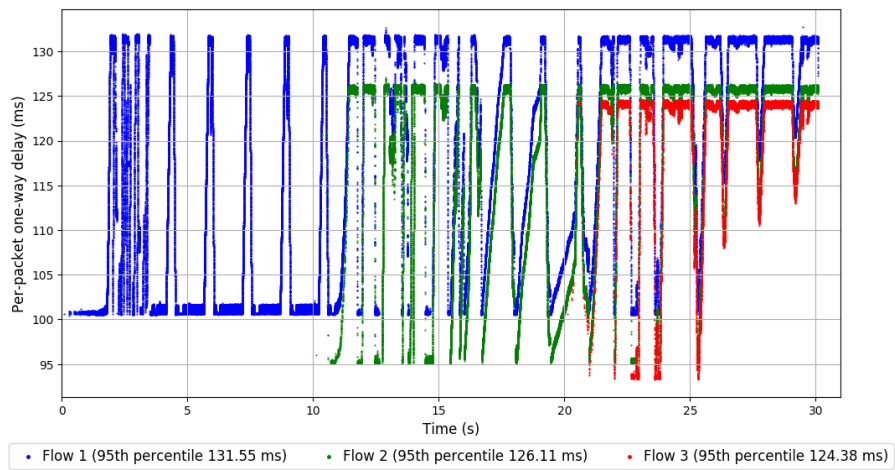
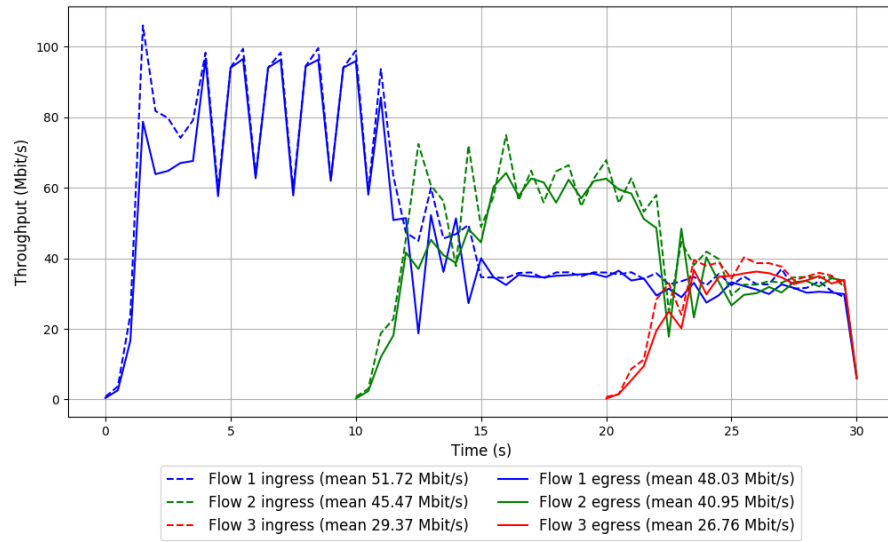


Run 9: Statistics of TCP BBR

Start at: 2018-02-04 01:57:55
End at: 2018-02-04 01:58:25
Local clock offset: 0.04 ms
Remote clock offset: -2.447 ms

Below is generated by plot.py at 2018-02-04 03:10:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 131.445 ms
Loss rate: 8.13%
-- Flow 1:
Average throughput: 48.03 Mbit/s
95th percentile per-packet one-way delay: 131.551 ms
Loss rate: 7.05%
-- Flow 2:
Average throughput: 40.95 Mbit/s
95th percentile per-packet one-way delay: 126.110 ms
Loss rate: 9.81%
-- Flow 3:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 124.379 ms
Loss rate: 8.65%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-04 02:20:22

End at: 2018-02-04 02:20:52

Local clock offset: 0.055 ms

Remote clock offset: 3.527 ms

Below is generated by plot.py at 2018-02-04 03:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 135.265 ms

Loss rate: 9.08%

-- Flow 1:

Average throughput: 53.02 Mbit/s

95th percentile per-packet one-way delay: 132.063 ms

Loss rate: 7.06%

-- Flow 2:

Average throughput: 33.10 Mbit/s

95th percentile per-packet one-way delay: 133.788 ms

Loss rate: 11.61%

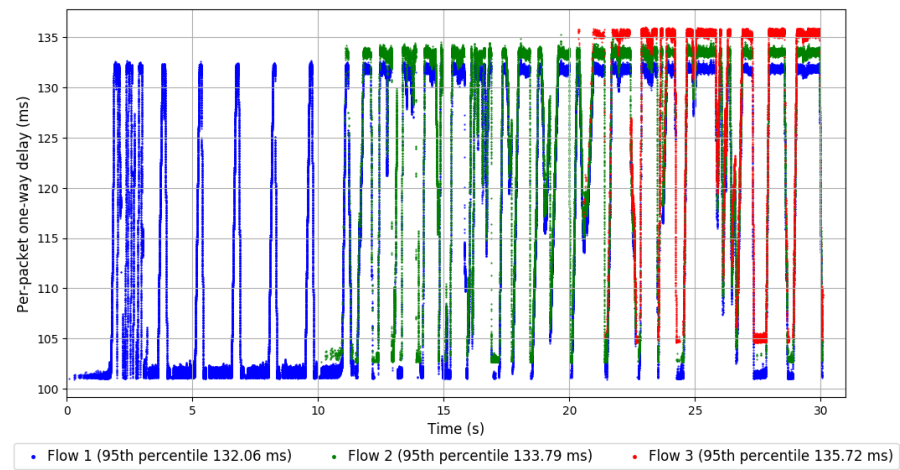
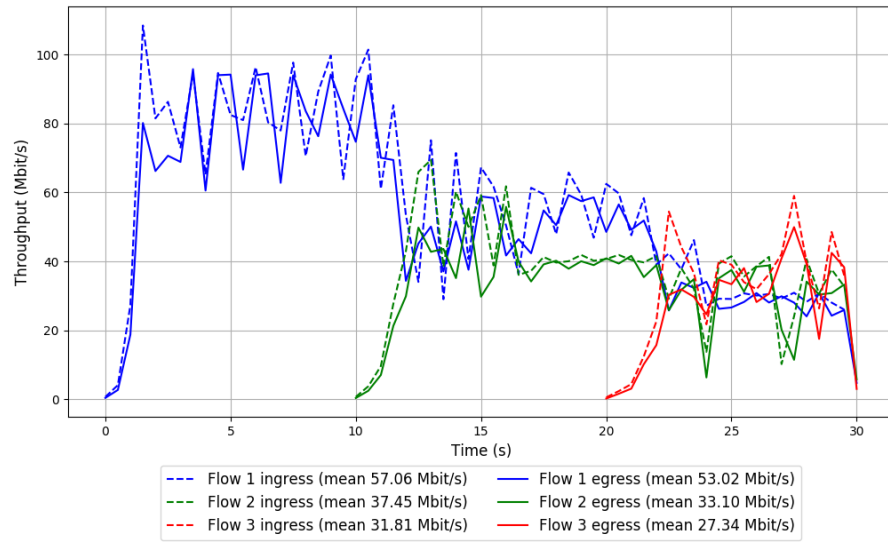
-- Flow 3:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 135.724 ms

Loss rate: 14.05%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-03 23:13:58

End at: 2018-02-03 23:14:28

Local clock offset: -0.042 ms

Remote clock offset: -3.37 ms

Below is generated by plot.py at 2018-02-04 03:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.76 Mbit/s

95th percentile per-packet one-way delay: 125.473 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 48.12 Mbit/s

95th percentile per-packet one-way delay: 123.226 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 43.14 Mbit/s

95th percentile per-packet one-way delay: 128.469 ms

Loss rate: 0.69%

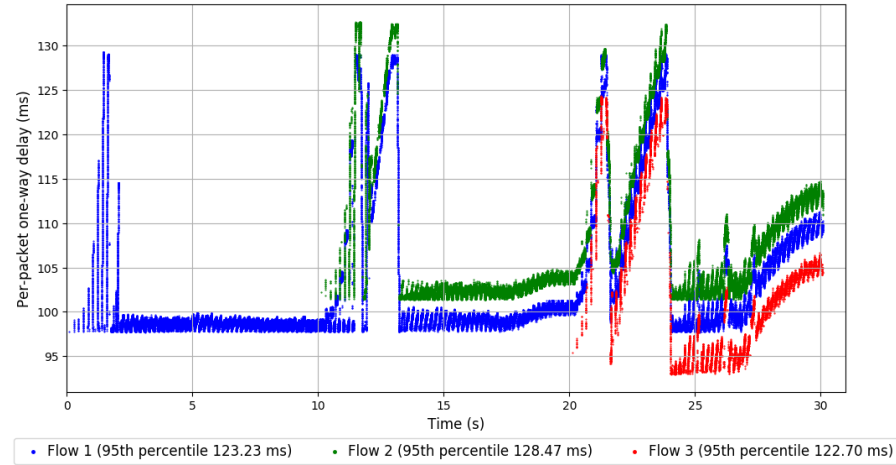
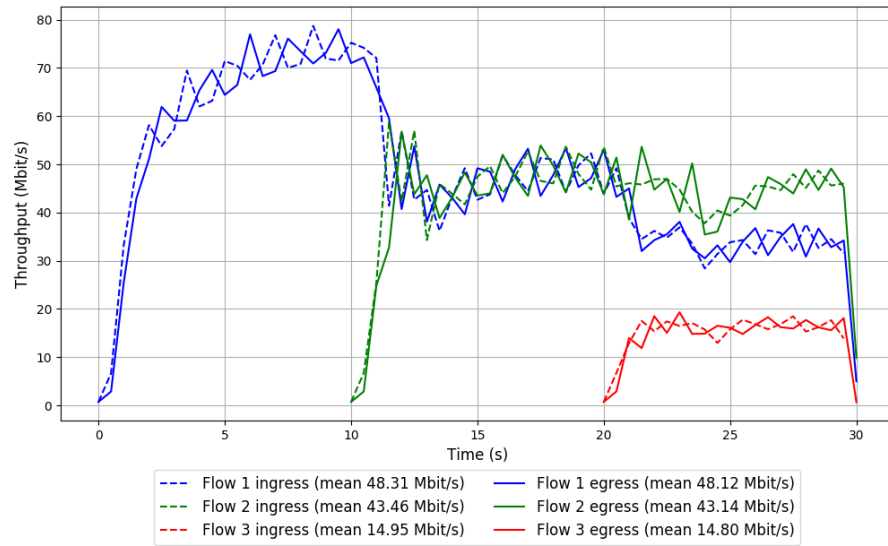
-- Flow 3:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 122.703 ms

Loss rate: 0.90%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-03 23:36:27

End at: 2018-02-03 23:36:57

Local clock offset: 0.008 ms

Remote clock offset: 2.301 ms

Below is generated by plot.py at 2018-02-04 03:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.59 Mbit/s

95th percentile per-packet one-way delay: 127.963 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 45.71 Mbit/s

95th percentile per-packet one-way delay: 129.155 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 125.948 ms

Loss rate: 1.18%

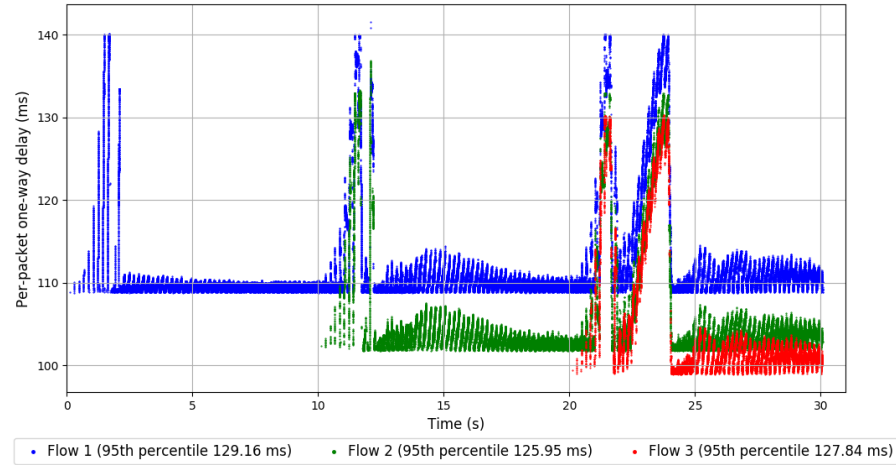
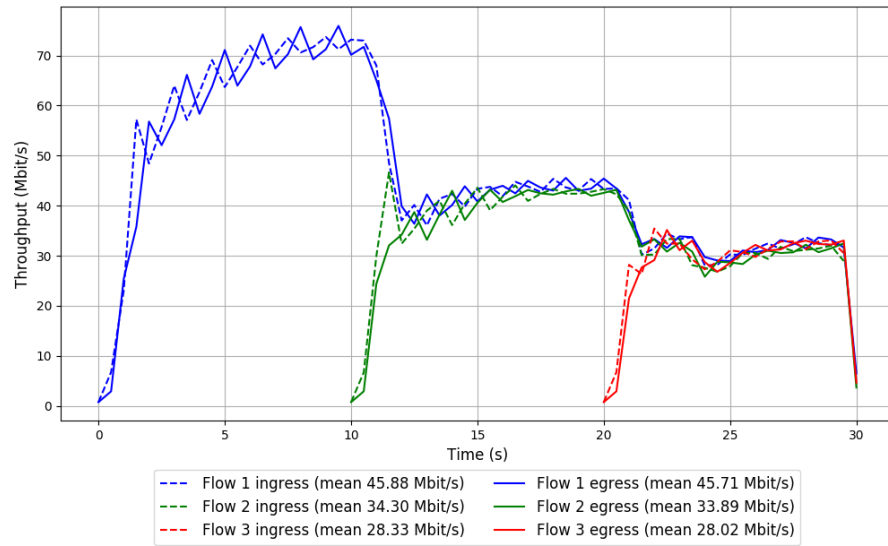
-- Flow 3:

Average throughput: 28.02 Mbit/s

95th percentile per-packet one-way delay: 127.839 ms

Loss rate: 1.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-03 23:58:57

End at: 2018-02-03 23:59:27

Local clock offset: 0.038 ms

Remote clock offset: 1.628 ms

Below is generated by plot.py at 2018-02-04 03:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 129.020 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 44.99 Mbit/s

95th percentile per-packet one-way delay: 127.933 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 129.778 ms

Loss rate: 0.69%

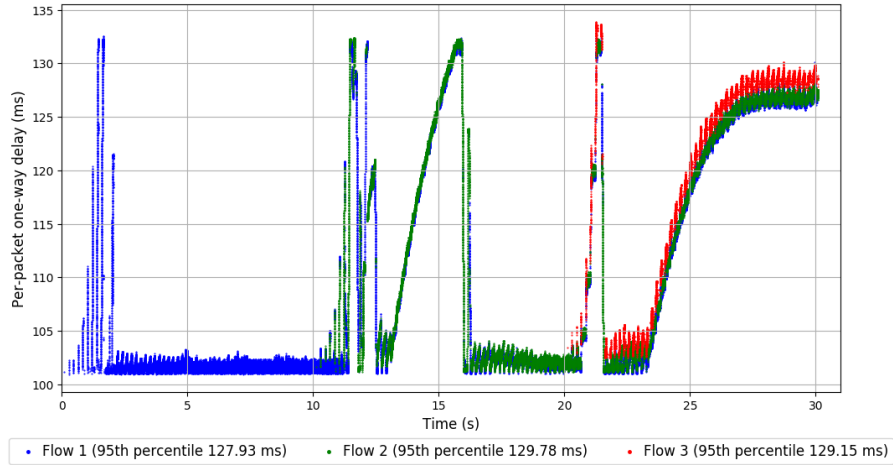
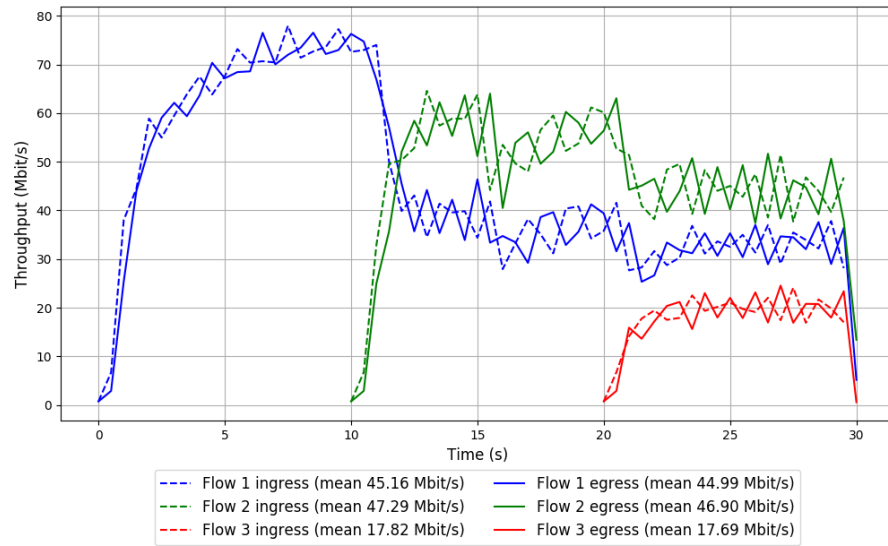
-- Flow 3:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 129.147 ms

Loss rate: 0.51%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-04 00:21:28

End at: 2018-02-04 00:21:58

Local clock offset: 0.116 ms

Remote clock offset: 2.886 ms

Below is generated by plot.py at 2018-02-04 03:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 126.217 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 29.57 Mbit/s

95th percentile per-packet one-way delay: 120.946 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 34.10 Mbit/s

95th percentile per-packet one-way delay: 127.475 ms

Loss rate: 1.06%

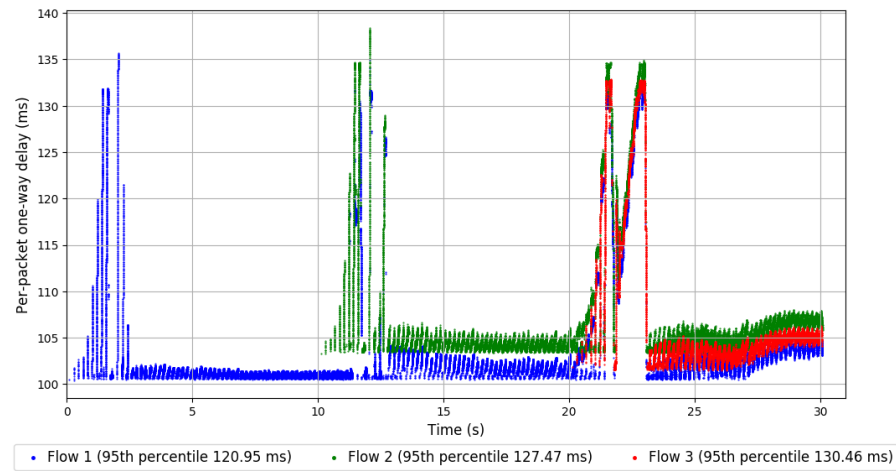
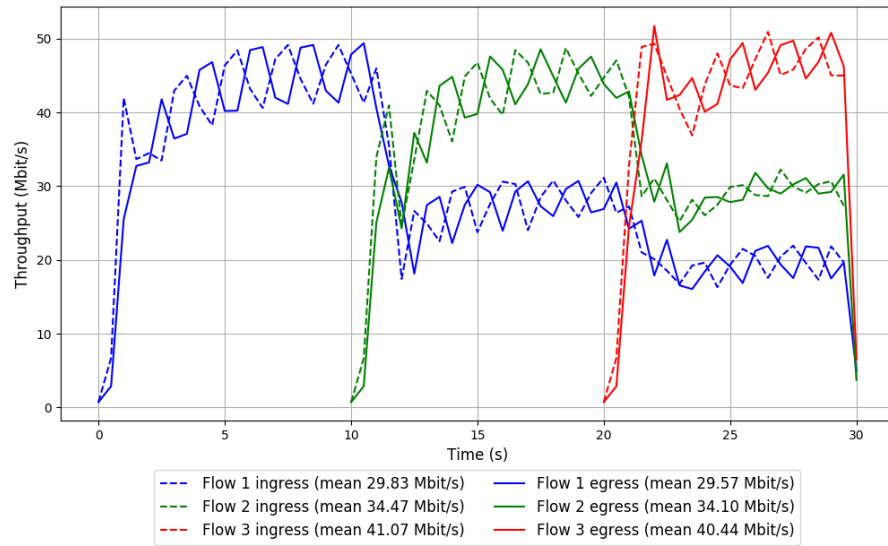
-- Flow 3:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 130.457 ms

Loss rate: 1.52%

Run 4: Report of TCP Cubic — Data Link

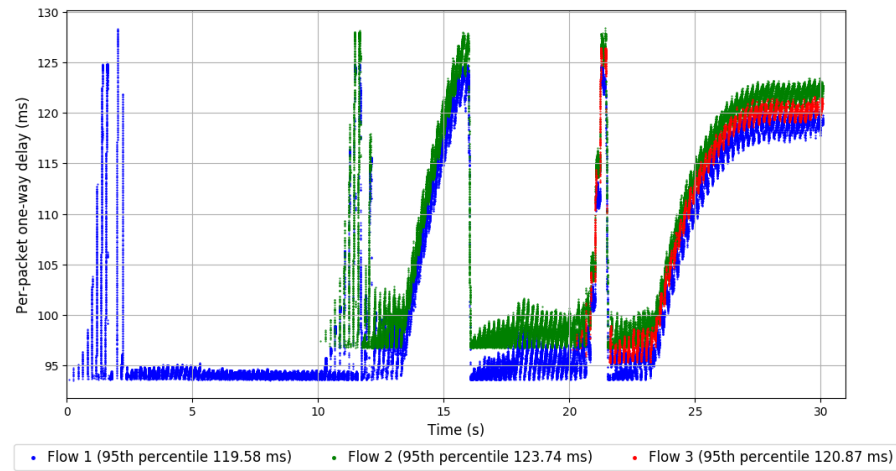
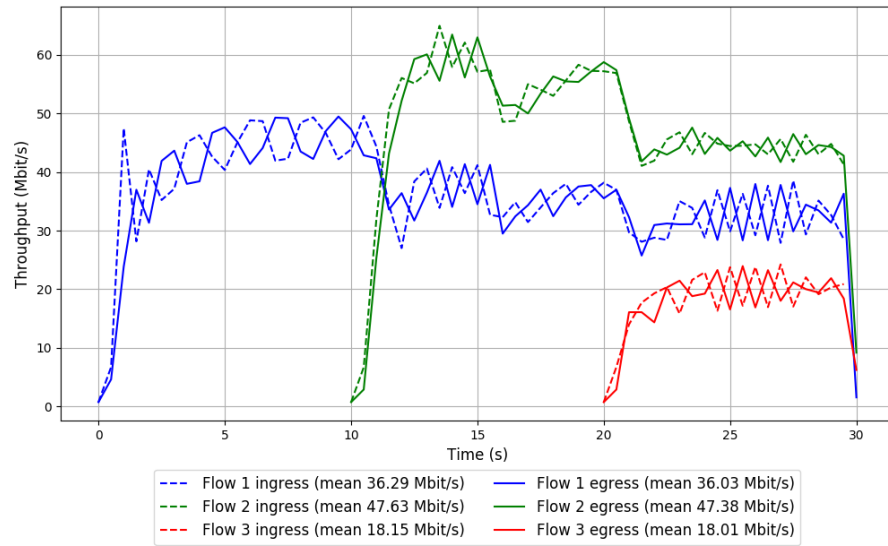


Run 5: Statistics of TCP Cubic

Start at: 2018-02-04 00:43:55
End at: 2018-02-04 00:44:25
Local clock offset: 0.079 ms
Remote clock offset: -3.175 ms

Below is generated by plot.py at 2018-02-04 03:10:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.57 Mbit/s
95th percentile per-packet one-way delay: 122.399 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 36.03 Mbit/s
95th percentile per-packet one-way delay: 119.582 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 47.38 Mbit/s
95th percentile per-packet one-way delay: 123.744 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 18.01 Mbit/s
95th percentile per-packet one-way delay: 120.872 ms
Loss rate: 0.49%

Run 5: Report of TCP Cubic — Data Link

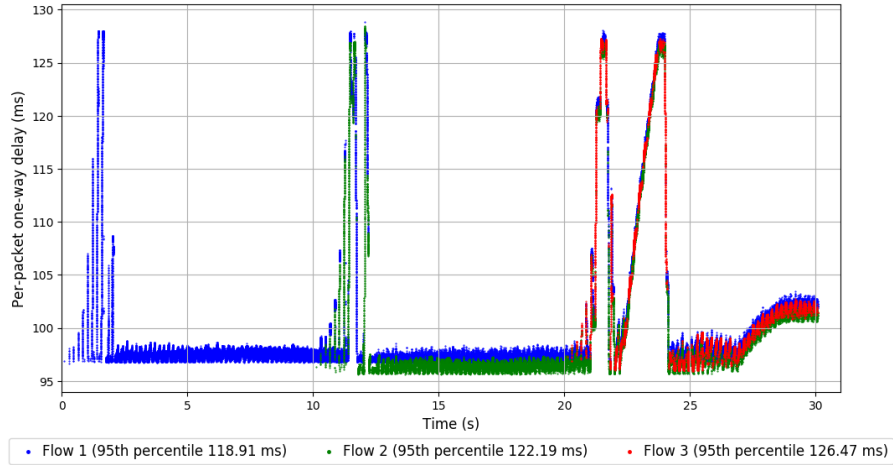
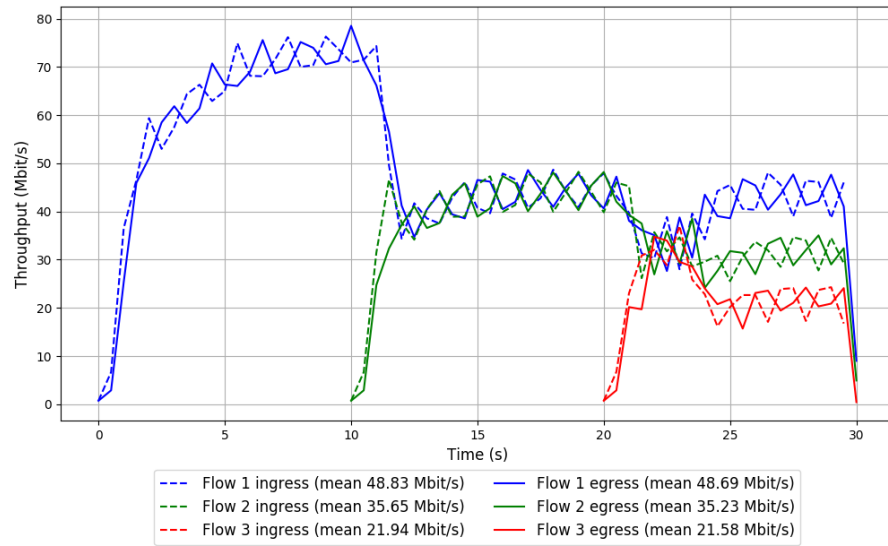


Run 6: Statistics of TCP Cubic

Start at: 2018-02-04 01:06:25
End at: 2018-02-04 01:06:55
Local clock offset: 0.019 ms
Remote clock offset: -2.768 ms

Below is generated by plot.py at 2018-02-04 03:10:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.32 Mbit/s
95th percentile per-packet one-way delay: 121.259 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 118.907 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 35.23 Mbit/s
95th percentile per-packet one-way delay: 122.193 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 21.58 Mbit/s
95th percentile per-packet one-way delay: 126.475 ms
Loss rate: 1.62%

Run 6: Report of TCP Cubic — Data Link

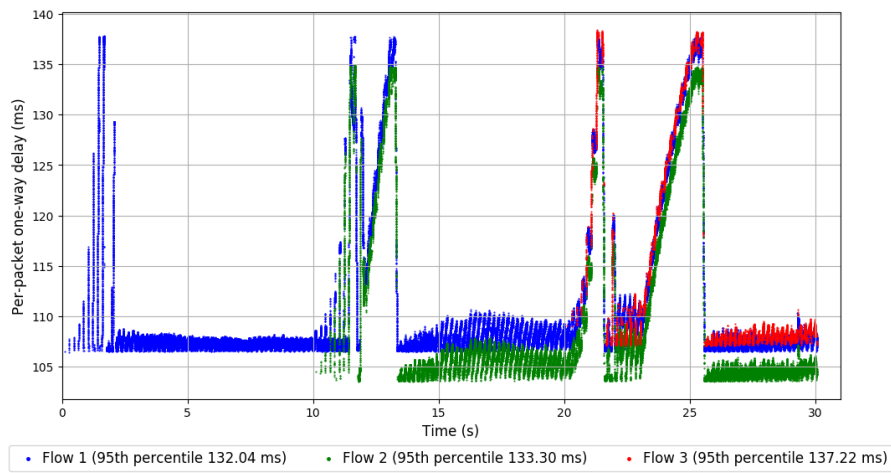
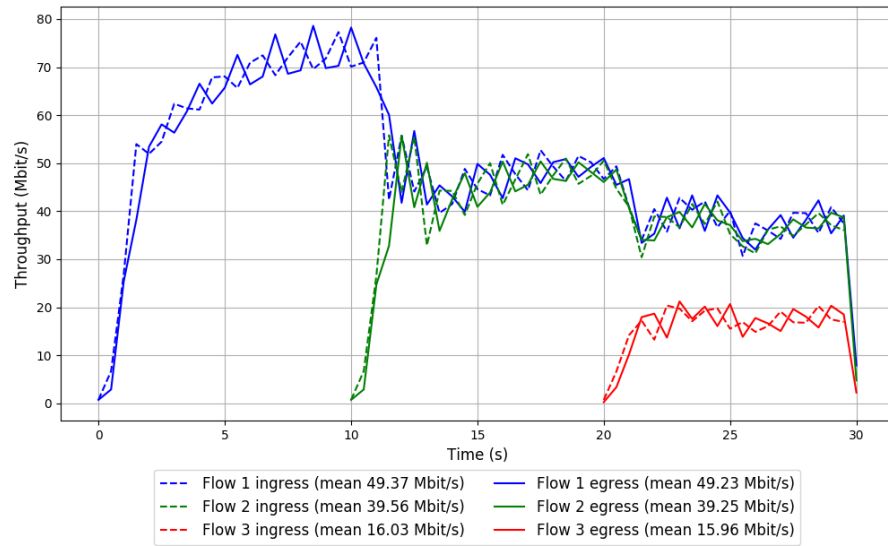


Run 7: Statistics of TCP Cubic

Start at: 2018-02-04 01:28:54
End at: 2018-02-04 01:29:24
Local clock offset: 0.058 ms
Remote clock offset: 3.878 ms

Below is generated by plot.py at 2018-02-04 03:10:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.66 Mbit/s
95th percentile per-packet one-way delay: 133.125 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 132.041 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 39.25 Mbit/s
95th percentile per-packet one-way delay: 133.298 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 137.219 ms
Loss rate: 0.47%

Run 7: Report of TCP Cubic — Data Link

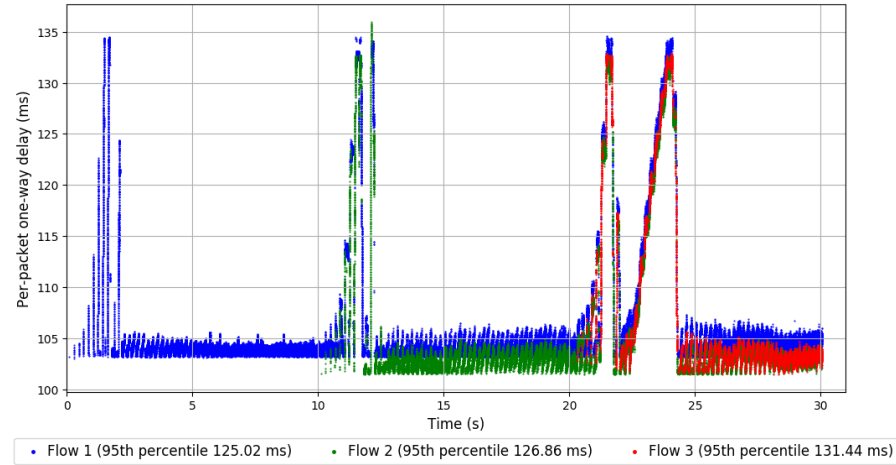
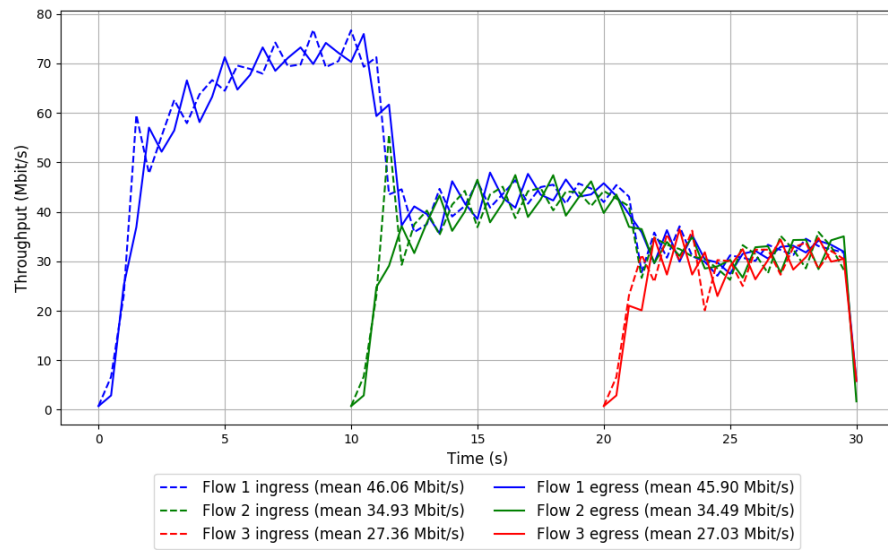


Run 8: Statistics of TCP Cubic

Start at: 2018-02-04 01:51:21
End at: 2018-02-04 01:51:51
Local clock offset: 0.118 ms
Remote clock offset: -1.546 ms

Below is generated by plot.py at 2018-02-04 03:11:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.84 Mbit/s
95th percentile per-packet one-way delay: 127.132 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 125.017 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 34.49 Mbit/s
95th percentile per-packet one-way delay: 126.858 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 131.435 ms
Loss rate: 1.20%

Run 8: Report of TCP Cubic — Data Link

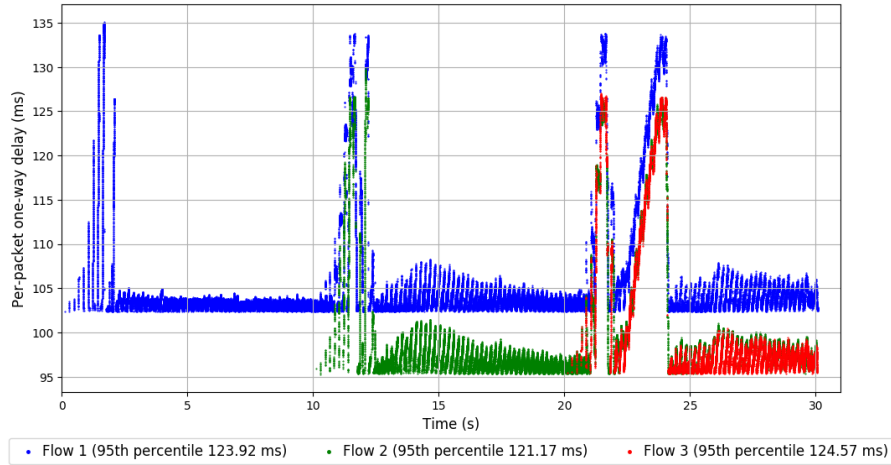
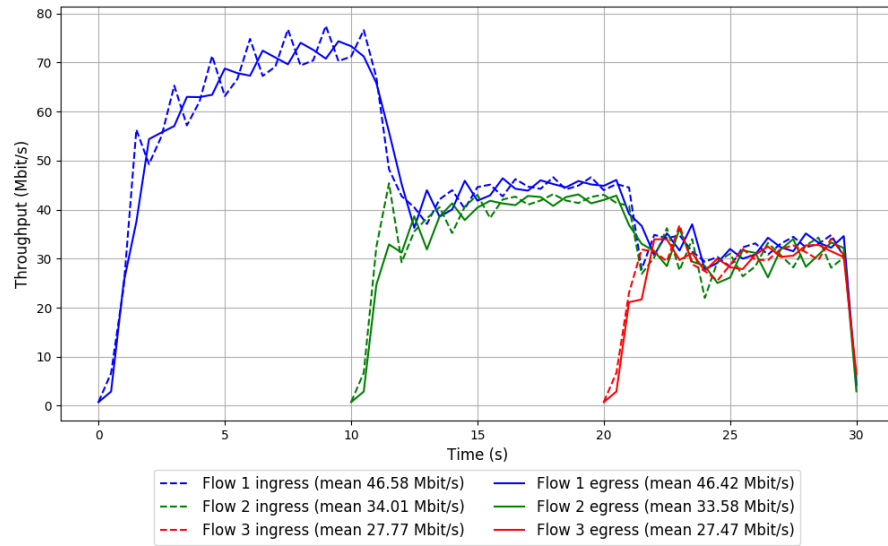


Run 9: Statistics of TCP Cubic

Start at: 2018-02-04 02:13:49
End at: 2018-02-04 02:14:19
Local clock offset: 0.077 ms
Remote clock offset: -2.133 ms

Below is generated by plot.py at 2018-02-04 03:11:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.91 Mbit/s
95th percentile per-packet one-way delay: 123.499 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 123.922 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 121.172 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 27.47 Mbit/s
95th percentile per-packet one-way delay: 124.569 ms
Loss rate: 1.08%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-04 02:36:16

End at: 2018-02-04 02:36:46

Local clock offset: -0.04 ms

Remote clock offset: 2.672 ms

Below is generated by plot.py at 2018-02-04 03:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.23 Mbit/s

95th percentile per-packet one-way delay: 127.102 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 123.391 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 131.030 ms

Loss rate: 0.83%

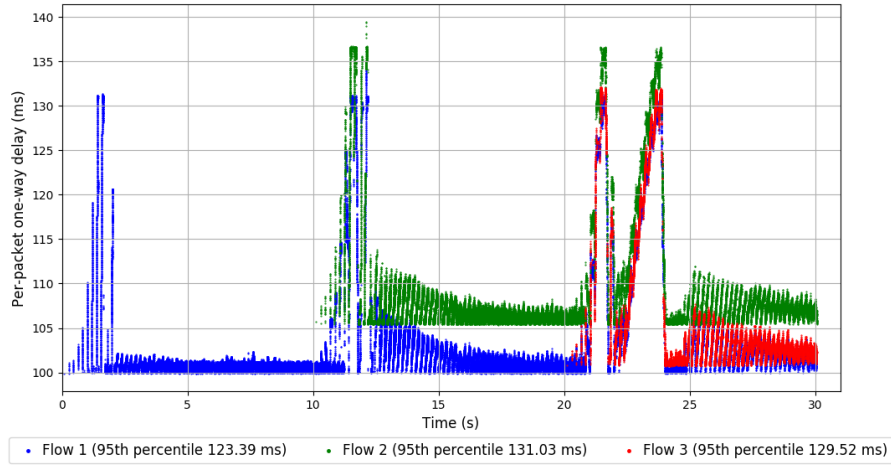
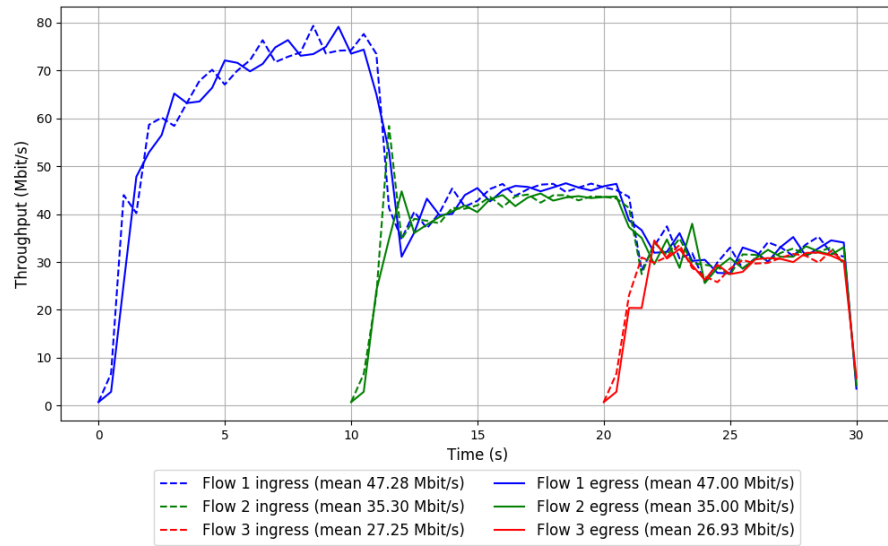
-- Flow 3:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 129.522 ms

Loss rate: 1.15%

Run 10: Report of TCP Cubic — Data Link

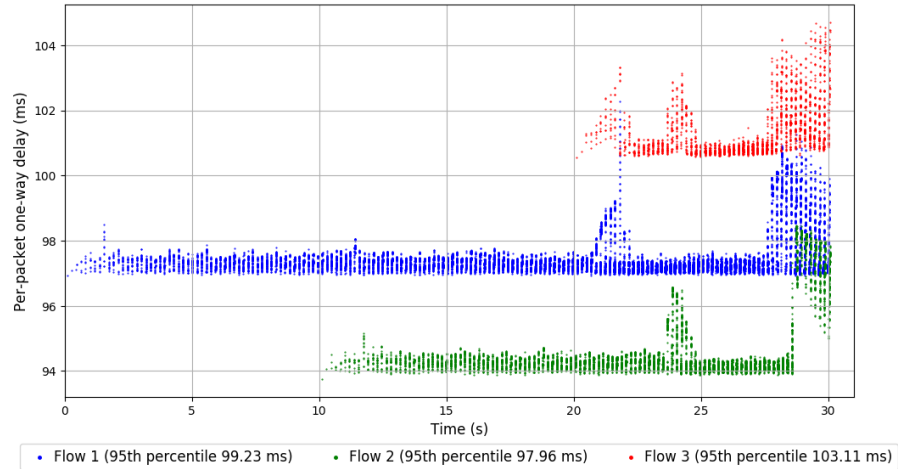
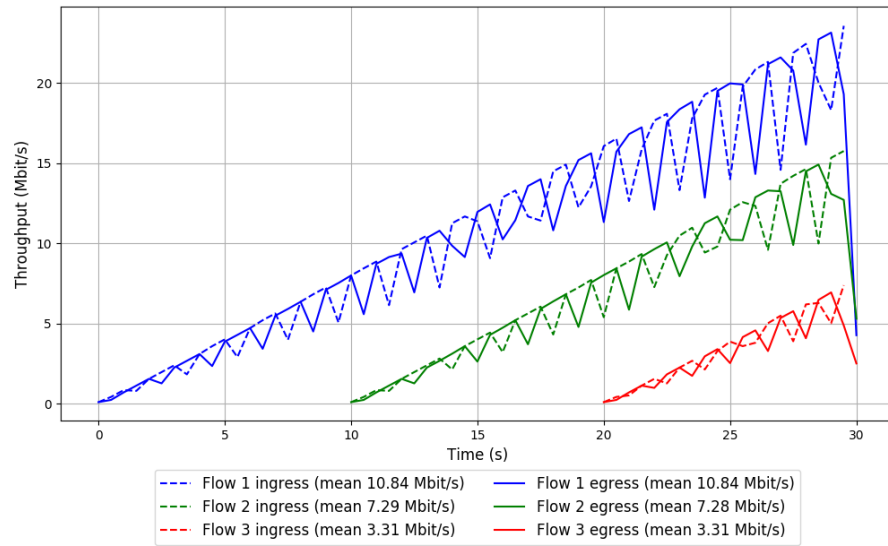


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-03 23:05:50
End at: 2018-02-03 23:06:20
Local clock offset: -0.021 ms
Remote clock offset: -4.122 ms

# Below is generated by plot.py at 2018-02-04 03:11:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.78 Mbit/s
95th percentile per-packet one-way delay: 100.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 99.227 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 97.959 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 103.109 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

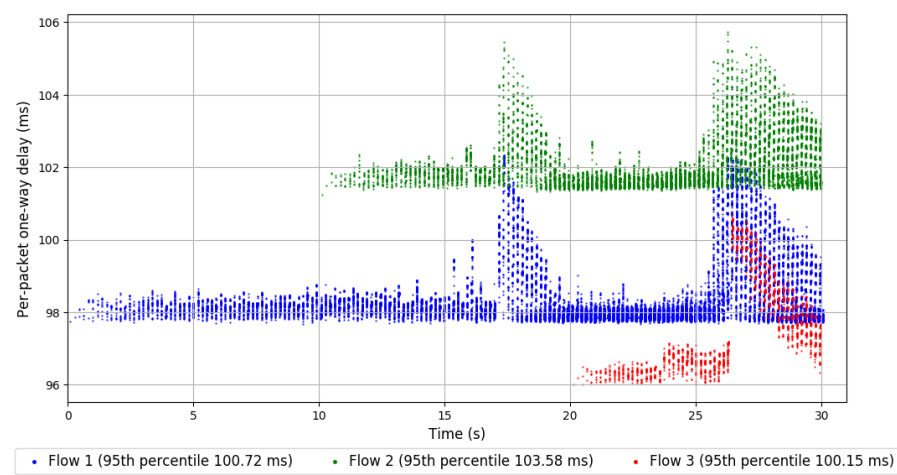
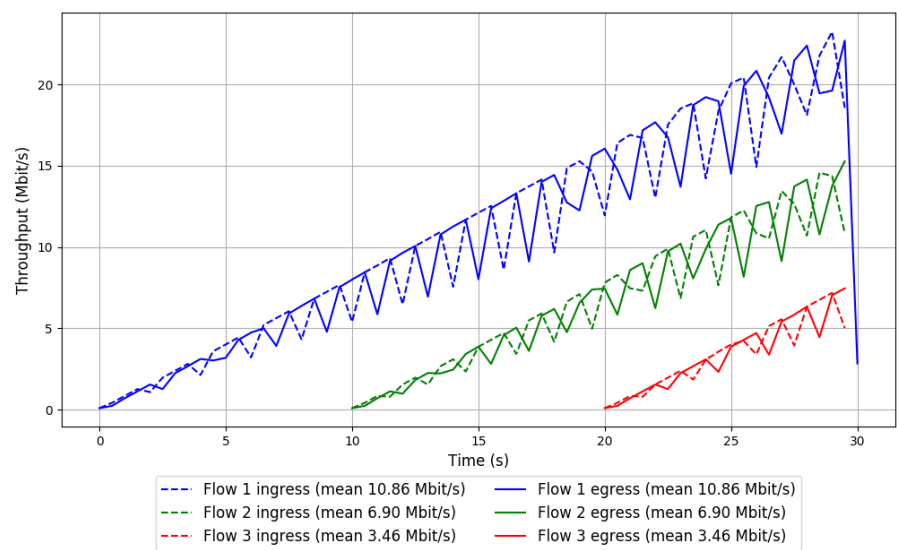


Run 2: Statistics of LEDBAT

Start at: 2018-02-03 23:28:20
End at: 2018-02-03 23:28:50
Local clock offset: -0.021 ms
Remote clock offset: -3.498 ms

Below is generated by plot.py at 2018-02-04 03:11:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.57 Mbit/s
95th percentile per-packet one-way delay: 102.694 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.86 Mbit/s
95th percentile per-packet one-way delay: 100.718 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 103.584 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 100.148 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

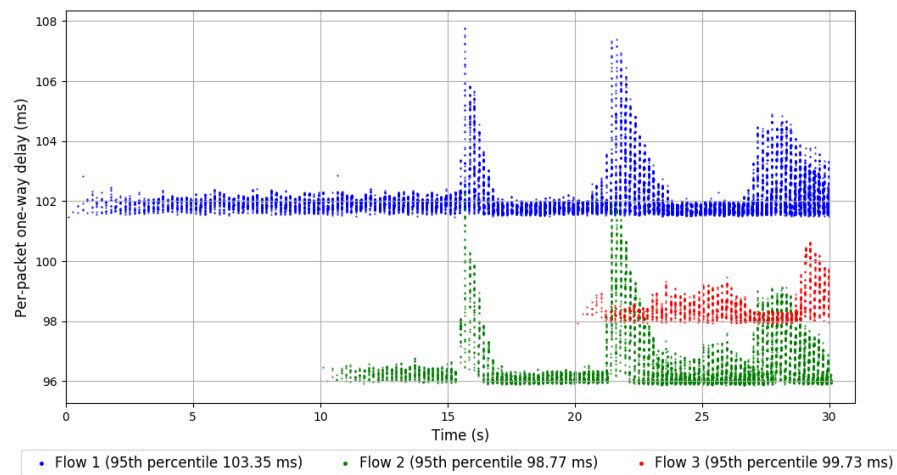
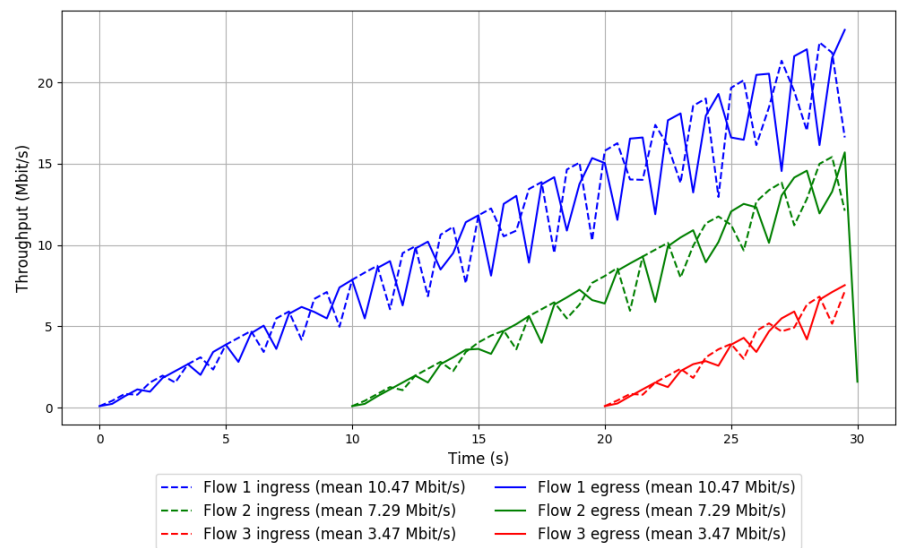


Run 3: Statistics of LEDBAT

Start at: 2018-02-03 23:50:49
End at: 2018-02-03 23:51:19
Local clock offset: -0.004 ms
Remote clock offset: -3.2 ms

Below is generated by plot.py at 2018-02-04 03:11:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.44 Mbit/s
95th percentile per-packet one-way delay: 102.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 103.348 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 98.769 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 99.730 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-04 00:13:21

End at: 2018-02-04 00:13:51

Local clock offset: 0.125 ms

Remote clock offset: 2.675 ms

Below is generated by plot.py at 2018-02-04 03:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.74 Mbit/s

95th percentile per-packet one-way delay: 105.799 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 103.129 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 104.414 ms

Loss rate: 0.00%

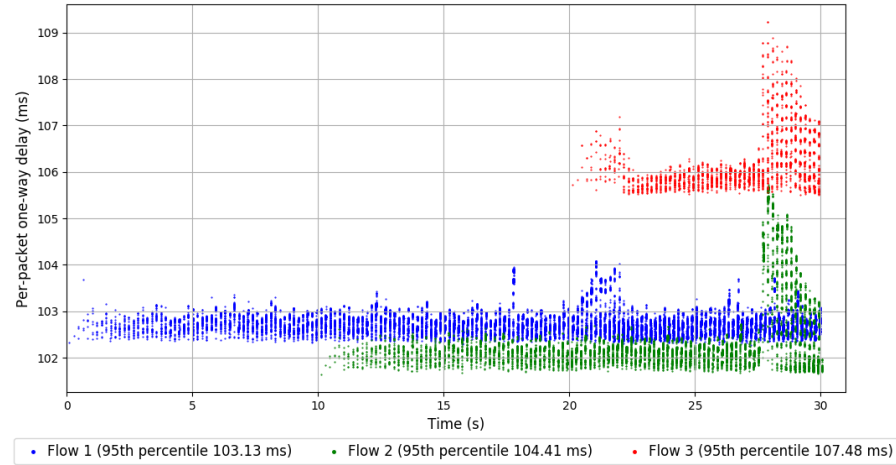
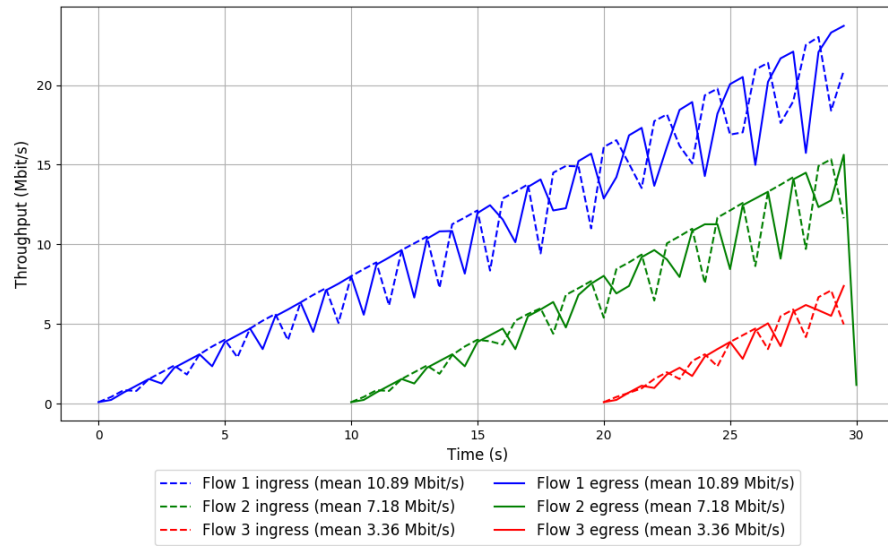
-- Flow 3:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 107.476 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

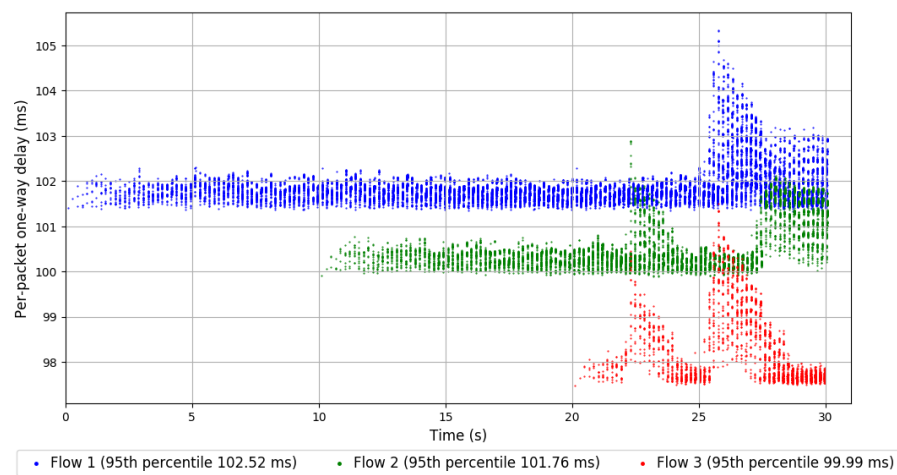
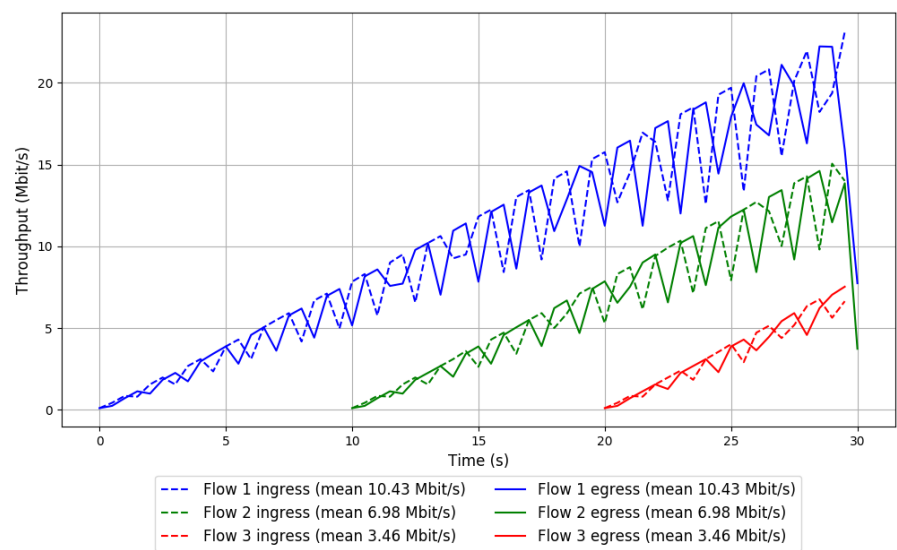


Run 5: Statistics of LEDBAT

Start at: 2018-02-04 00:35:50
End at: 2018-02-04 00:36:20
Local clock offset: 0.059 ms
Remote clock offset: -2.469 ms

Below is generated by plot.py at 2018-02-04 03:11:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.21 Mbit/s
95th percentile per-packet one-way delay: 102.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.43 Mbit/s
95th percentile per-packet one-way delay: 102.522 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 101.764 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 99.989 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-04 00:58:19

End at: 2018-02-04 00:58:49

Local clock offset: 0.041 ms

Remote clock offset: 3.533 ms

Below is generated by plot.py at 2018-02-04 03:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.22 Mbit/s

95th percentile per-packet one-way delay: 102.806 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 102.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 103.011 ms

Loss rate: 0.00%

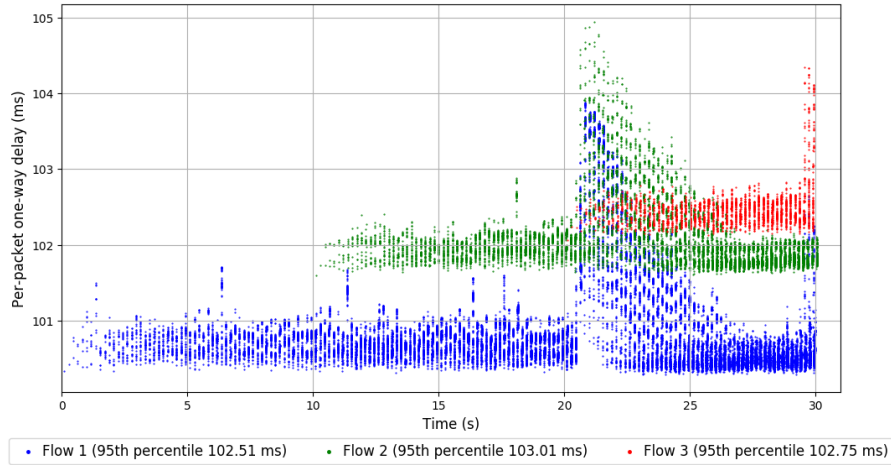
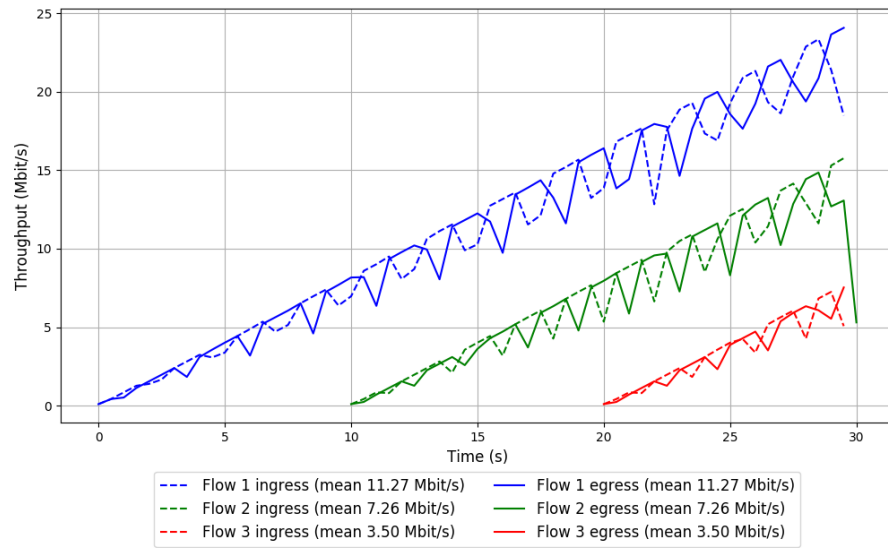
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 102.752 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

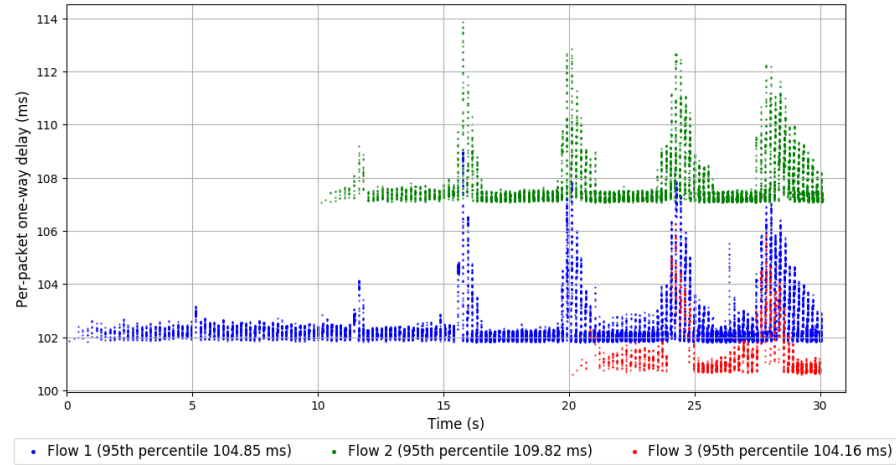
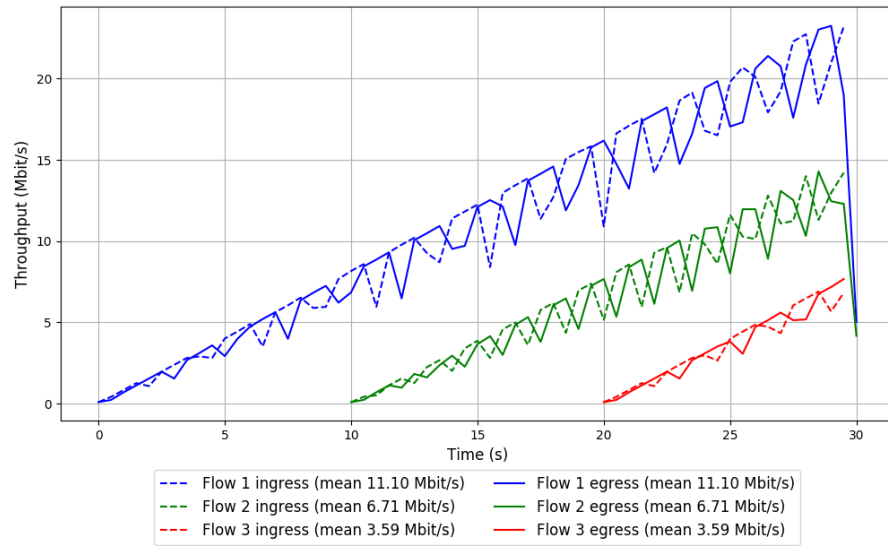


Run 7: Statistics of LEDBAT

Start at: 2018-02-04 01:20:47
End at: 2018-02-04 01:21:17
Local clock offset: -0.004 ms
Remote clock offset: 3.797 ms

Below is generated by plot.py at 2018-02-04 03:11:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.73 Mbit/s
95th percentile per-packet one-way delay: 108.391 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 104.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 109.819 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 104.163 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-04 01:43:16

End at: 2018-02-04 01:43:46

Local clock offset: 0.073 ms

Remote clock offset: 2.304 ms

Below is generated by plot.py at 2018-02-04 03:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.91 Mbit/s

95th percentile per-packet one-way delay: 100.616 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 99.525 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 100.488 ms

Loss rate: 0.00%

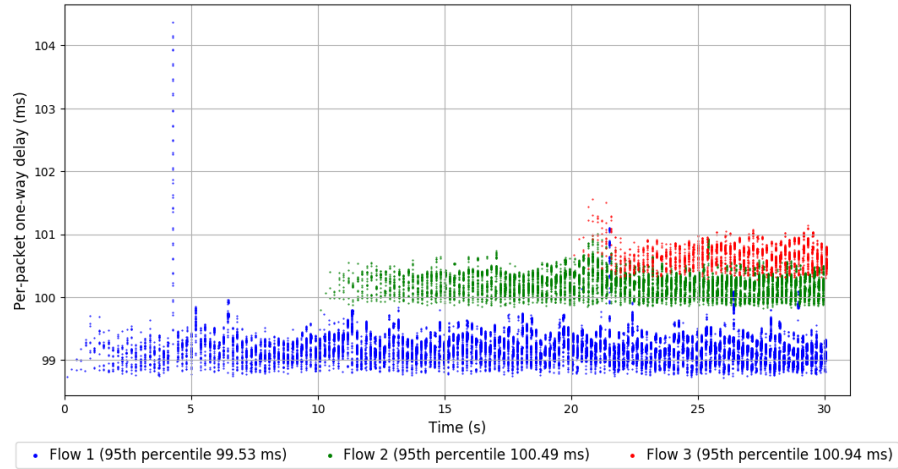
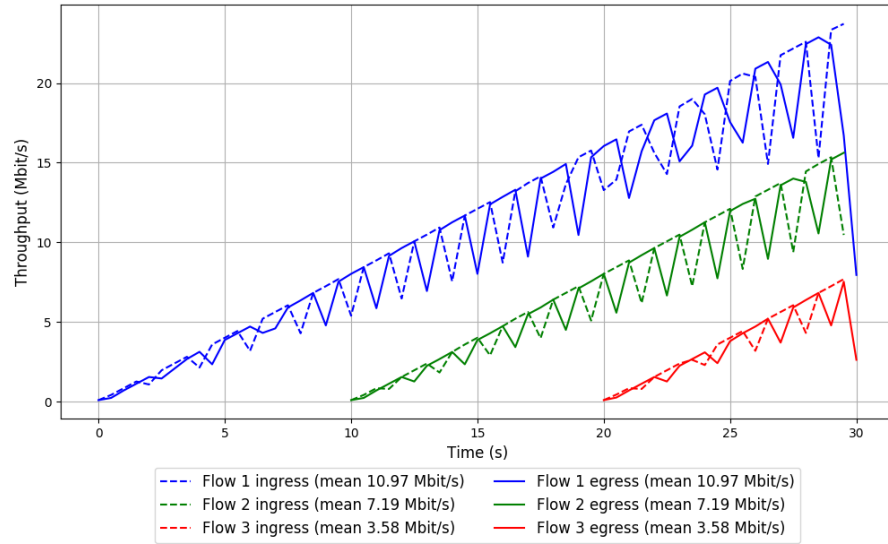
-- Flow 3:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 100.936 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-04 02:05:43

End at: 2018-02-04 02:06:13

Local clock offset: 0.089 ms

Remote clock offset: 3.387 ms

Below is generated by plot.py at 2018-02-04 03:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.66 Mbit/s

95th percentile per-packet one-way delay: 105.917 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.95 Mbit/s

95th percentile per-packet one-way delay: 104.730 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 107.236 ms

Loss rate: 0.00%

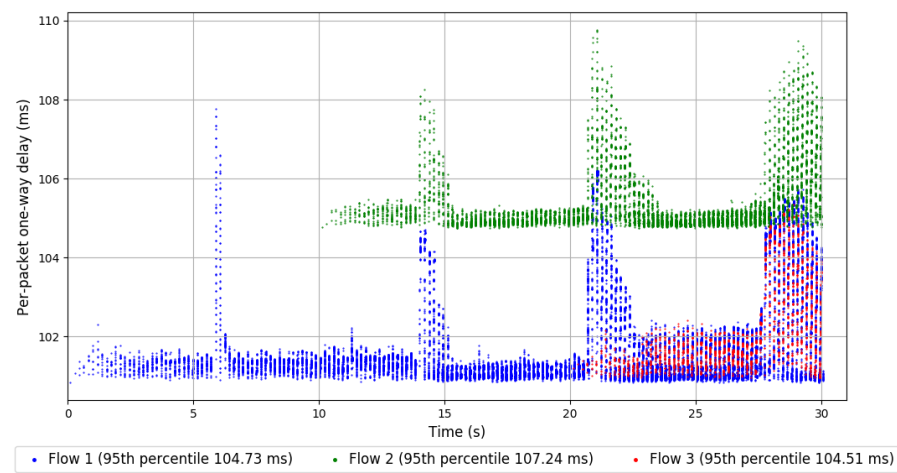
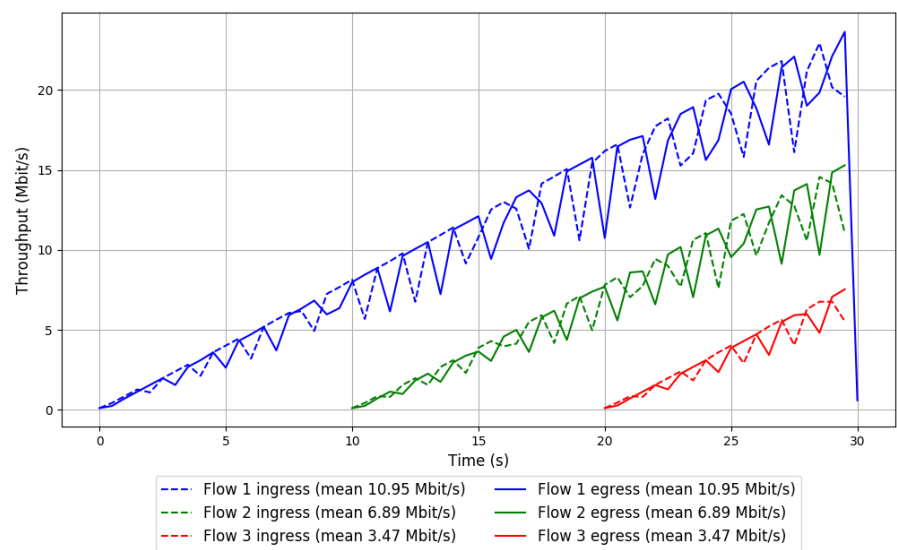
-- Flow 3:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 104.506 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-04 02:28:11

End at: 2018-02-04 02:28:41

Local clock offset: 0.019 ms

Remote clock offset: 3.54 ms

Below is generated by plot.py at 2018-02-04 03:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.39 Mbit/s

95th percentile per-packet one-way delay: 107.381 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 108.013 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 103.969 ms

Loss rate: 0.00%

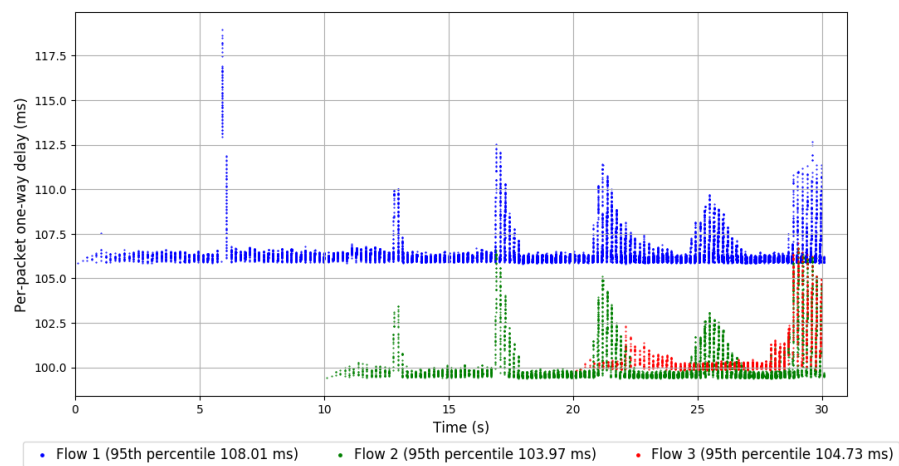
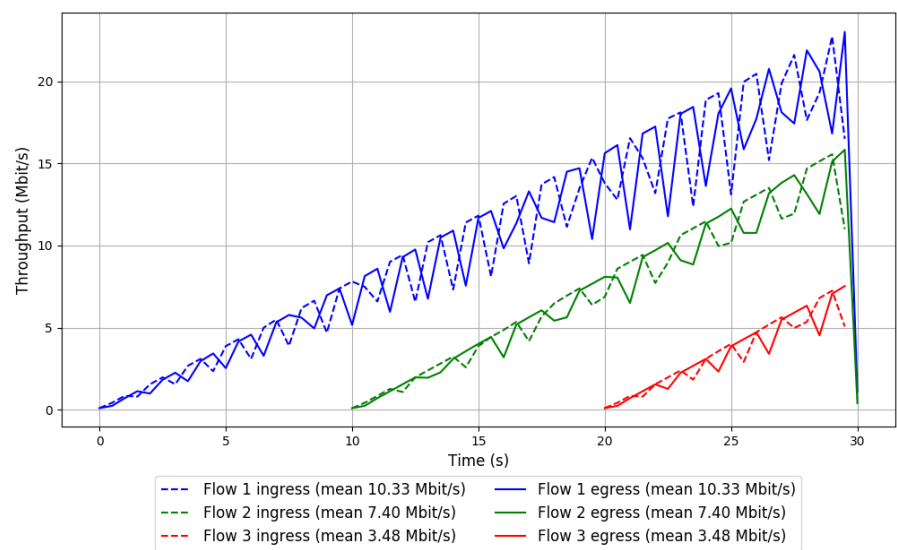
-- Flow 3:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 104.731 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-03 23:03:09

End at: 2018-02-03 23:03:39

Local clock offset: -0.007 ms

Remote clock offset: 1.625 ms

Below is generated by plot.py at 2018-02-04 03:11:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 132.187 ms

Loss rate: 5.22%

-- Flow 1:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 132.175 ms

Loss rate: 4.69%

-- Flow 2:

Average throughput: 17.51 Mbit/s

95th percentile per-packet one-way delay: 130.727 ms

Loss rate: 7.87%

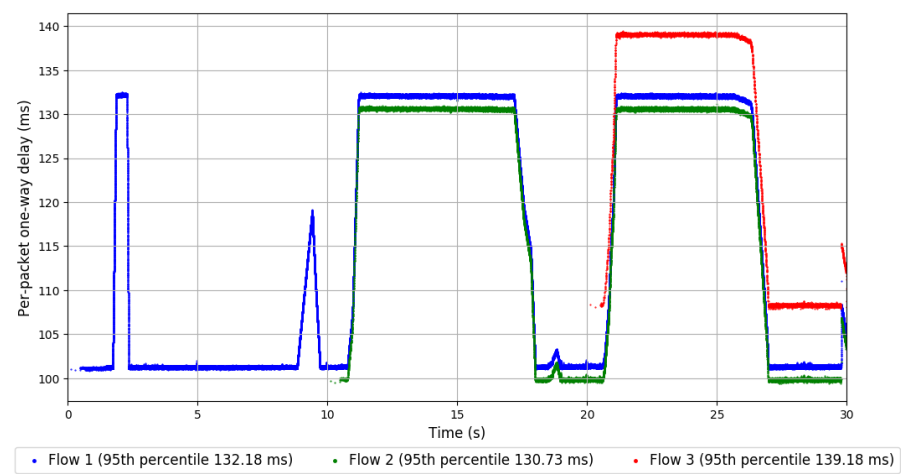
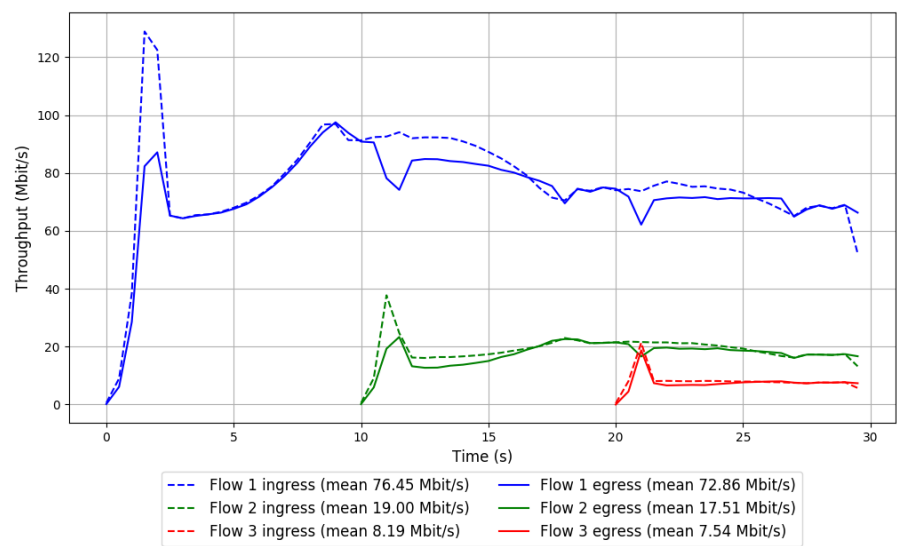
-- Flow 3:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 139.179 ms

Loss rate: 7.96%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-03 23:25:39

End at: 2018-02-03 23:26:09

Local clock offset: -0.031 ms

Remote clock offset: 1.42 ms

Below is generated by plot.py at 2018-02-04 03:11:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 138.826 ms

Loss rate: 3.05%

-- Flow 1:

Average throughput: 77.80 Mbit/s

95th percentile per-packet one-way delay: 138.834 ms

Loss rate: 2.90%

-- Flow 2:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 133.732 ms

Loss rate: 3.91%

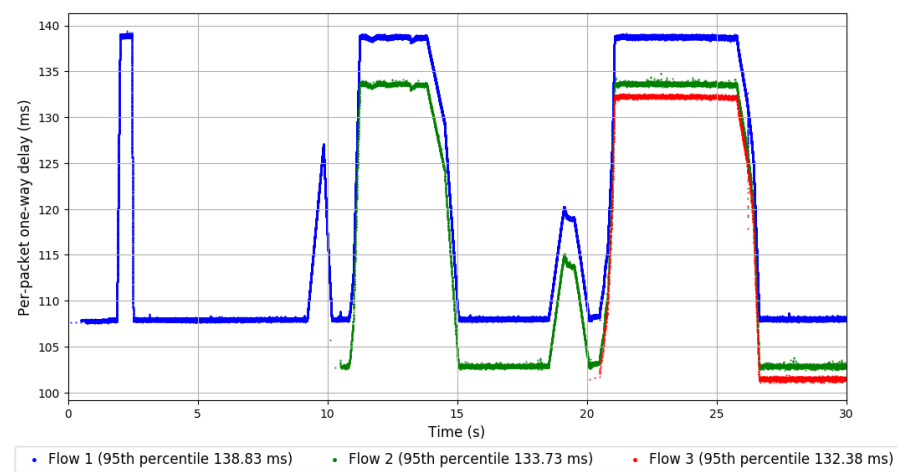
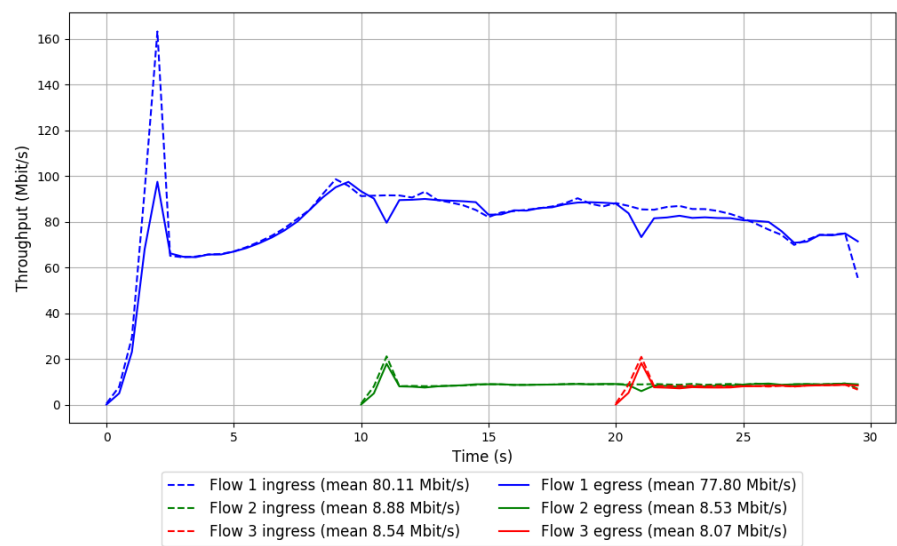
-- Flow 3:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 132.381 ms

Loss rate: 5.51%

Run 2: Report of PCC — Data Link

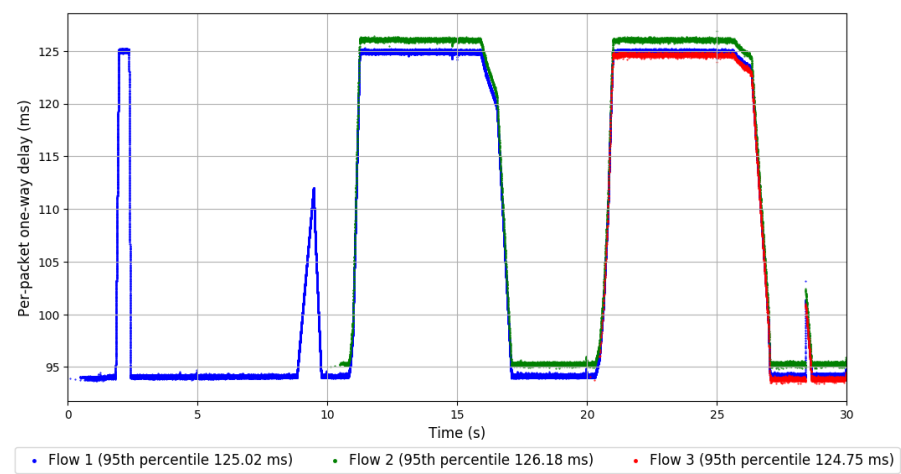
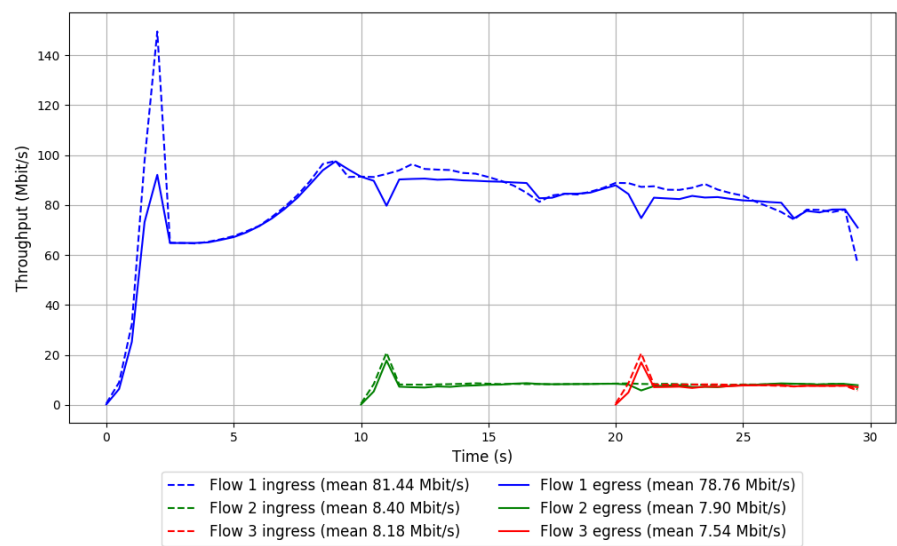


Run 3: Statistics of PCC

Start at: 2018-02-03 23:48:09
End at: 2018-02-03 23:48:39
Local clock offset: 0.044 ms
Remote clock offset: -4.043 ms

Below is generated by plot.py at 2018-02-04 03:12:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 125.061 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 78.76 Mbit/s
95th percentile per-packet one-way delay: 125.022 ms
Loss rate: 3.29%
-- Flow 2:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 126.184 ms
Loss rate: 5.92%
-- Flow 3:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 124.754 ms
Loss rate: 7.81%

Run 3: Report of PCC — Data Link

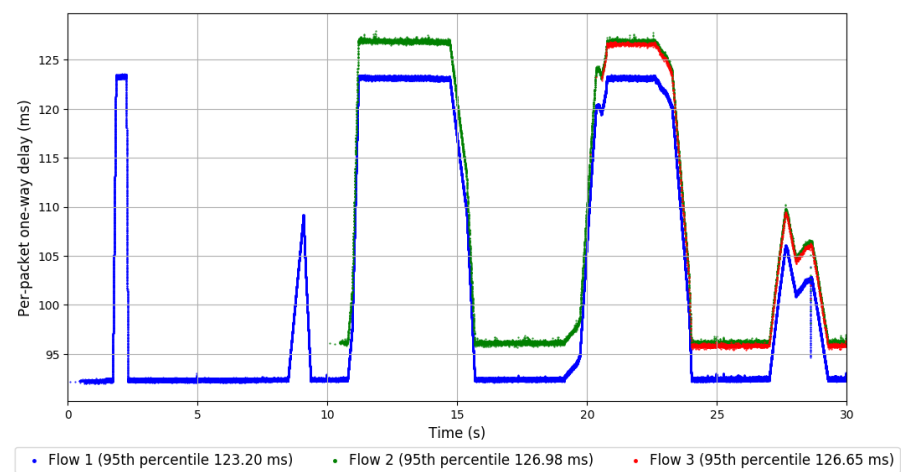
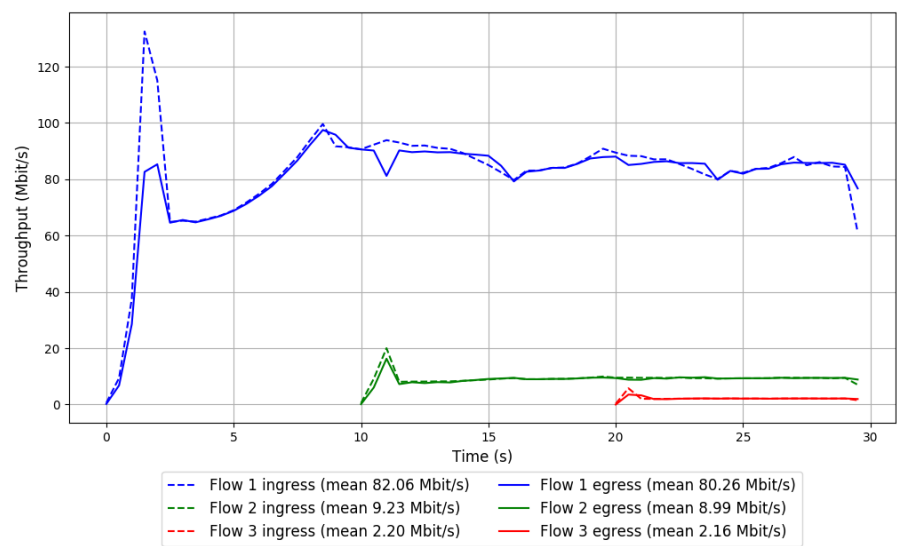


Run 4: Statistics of PCC

Start at: 2018-02-04 00:10:40
End at: 2018-02-04 00:11:10
Local clock offset: 0.138 ms
Remote clock offset: -3.842 ms

Below is generated by plot.py at 2018-02-04 03:12:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.95 Mbit/s
95th percentile per-packet one-way delay: 123.250 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 80.26 Mbit/s
95th percentile per-packet one-way delay: 123.205 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 126.977 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 126.648 ms
Loss rate: 2.21%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-04 00:33:09

End at: 2018-02-04 00:33:39

Local clock offset: 0.061 ms

Remote clock offset: 2.333 ms

Below is generated by plot.py at 2018-02-04 03:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.15 Mbit/s

95th percentile per-packet one-way delay: 131.946 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 131.902 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 133.494 ms

Loss rate: 2.33%

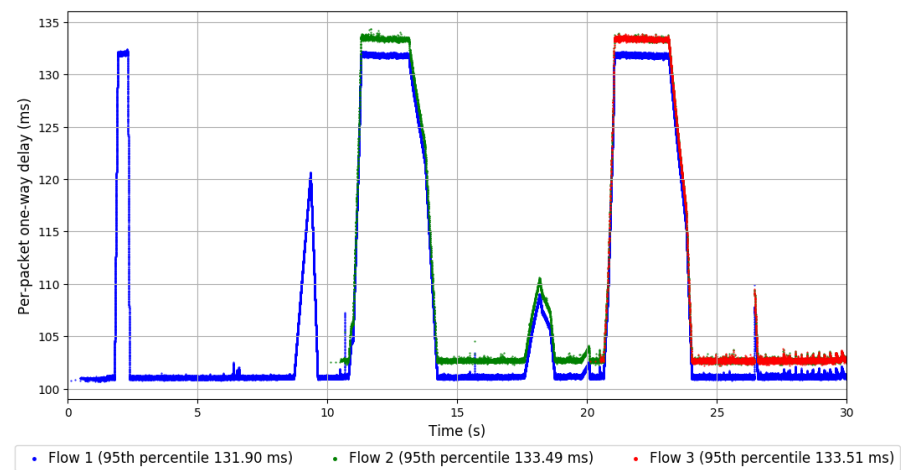
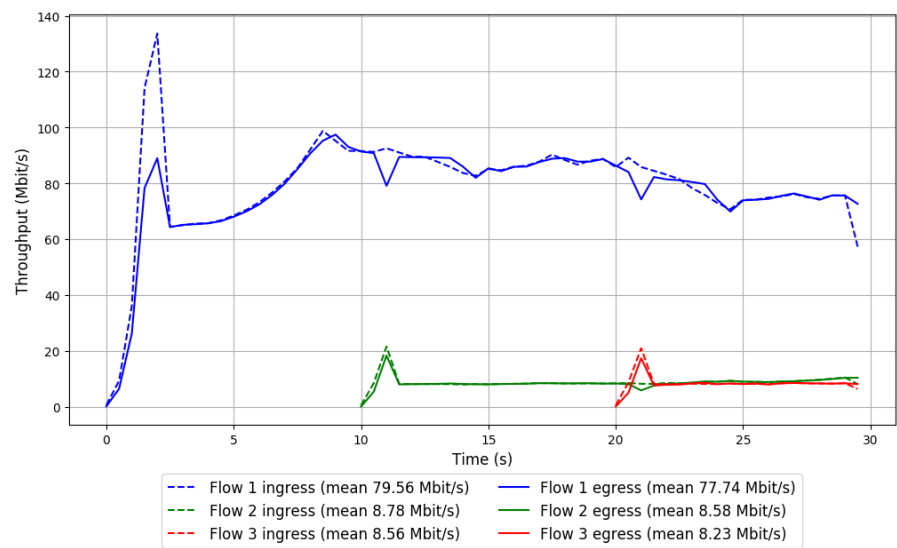
-- Flow 3:

Average throughput: 8.23 Mbit/s

95th percentile per-packet one-way delay: 133.508 ms

Loss rate: 3.78%

Run 5: Report of PCC — Data Link

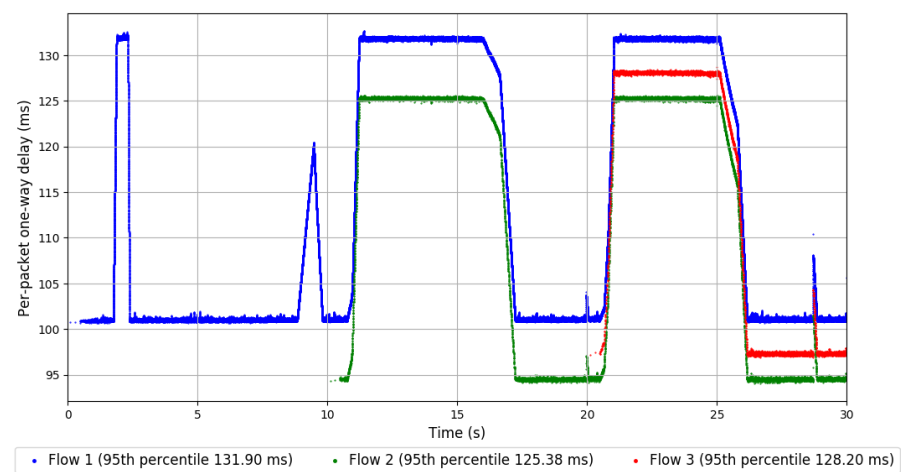
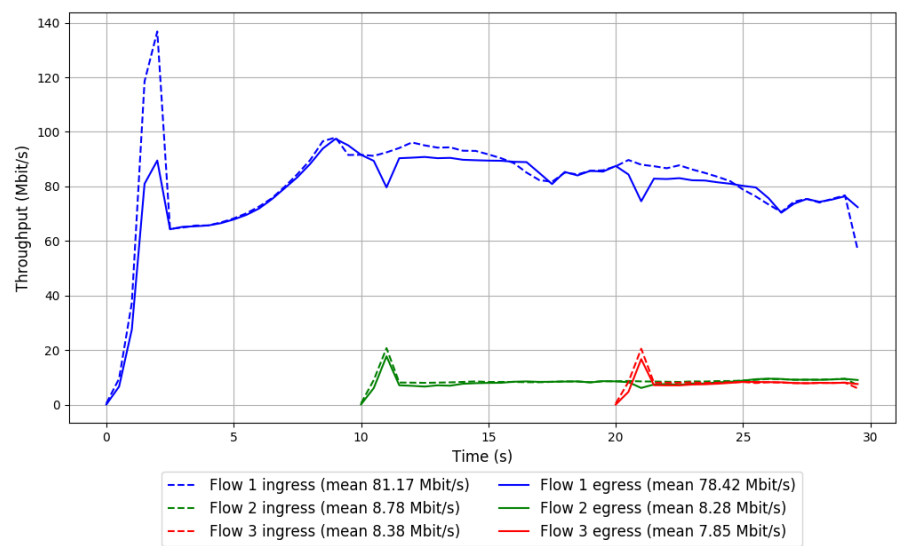


Run 6: Statistics of PCC

Start at: 2018-02-04 00:55:38
End at: 2018-02-04 00:56:08
Local clock offset: 0.052 ms
Remote clock offset: -2.844 ms

Below is generated by plot.py at 2018-02-04 03:12:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 131.892 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 78.42 Mbit/s
95th percentile per-packet one-way delay: 131.899 ms
Loss rate: 3.38%
-- Flow 2:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 125.378 ms
Loss rate: 5.62%
-- Flow 3:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 128.200 ms
Loss rate: 6.31%

Run 6: Report of PCC — Data Link

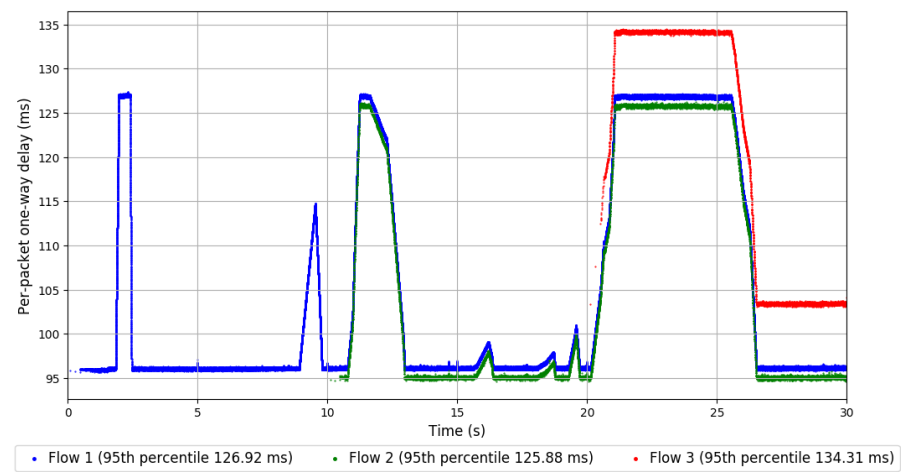
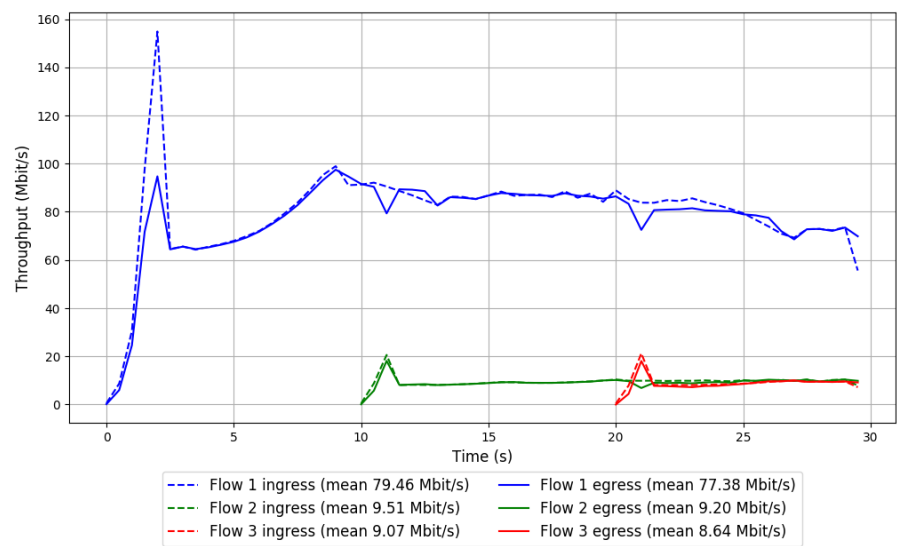


Run 7: Statistics of PCC

Start at: 2018-02-04 01:18:06
End at: 2018-02-04 01:18:36
Local clock offset: 0.023 ms
Remote clock offset: -1.868 ms

Below is generated by plot.py at 2018-02-04 03:12:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 126.943 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 77.38 Mbit/s
95th percentile per-packet one-way delay: 126.919 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 9.20 Mbit/s
95th percentile per-packet one-way delay: 125.884 ms
Loss rate: 3.32%
-- Flow 3:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 134.309 ms
Loss rate: 4.76%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-04 01:40:35

End at: 2018-02-04 01:41:05

Local clock offset: 0.142 ms

Remote clock offset: 2.346 ms

Below is generated by plot.py at 2018-02-04 03:12:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.80 Mbit/s

95th percentile per-packet one-way delay: 131.225 ms

Loss rate: 2.99%

-- Flow 1:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 131.160 ms

Loss rate: 2.88%

-- Flow 2:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 134.845 ms

Loss rate: 4.35%

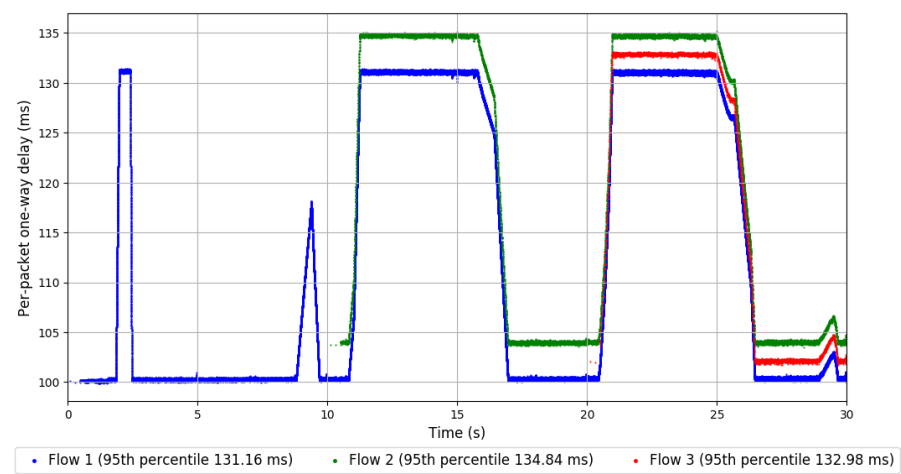
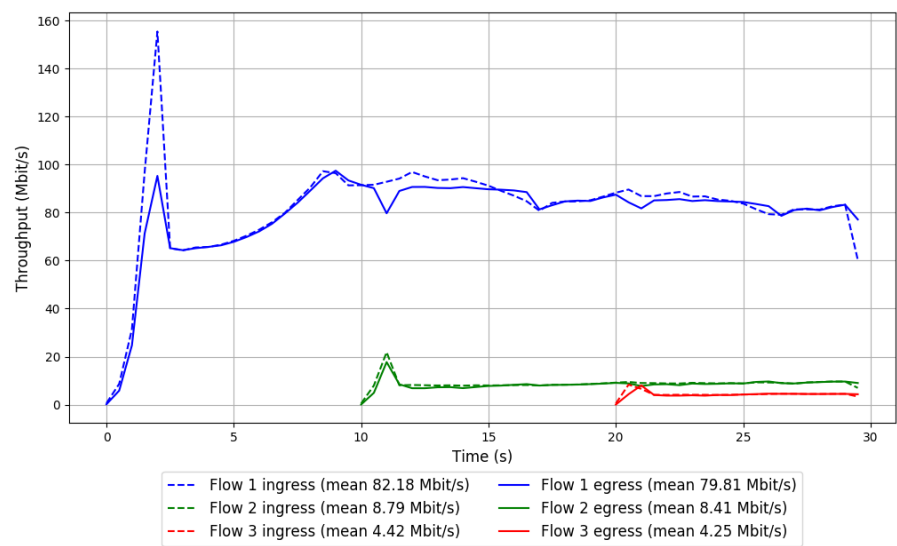
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 132.980 ms

Loss rate: 3.75%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

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

Local clock offset: 0.014 ms

Remote clock offset: 2.584 ms

Below is generated by plot.py at 2018-02-04 03:13:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.25 Mbit/s

95th percentile per-packet one-way delay: 133.388 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 133.361 ms

Loss rate: 2.42%

-- Flow 2:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 134.940 ms

Loss rate: 2.46%

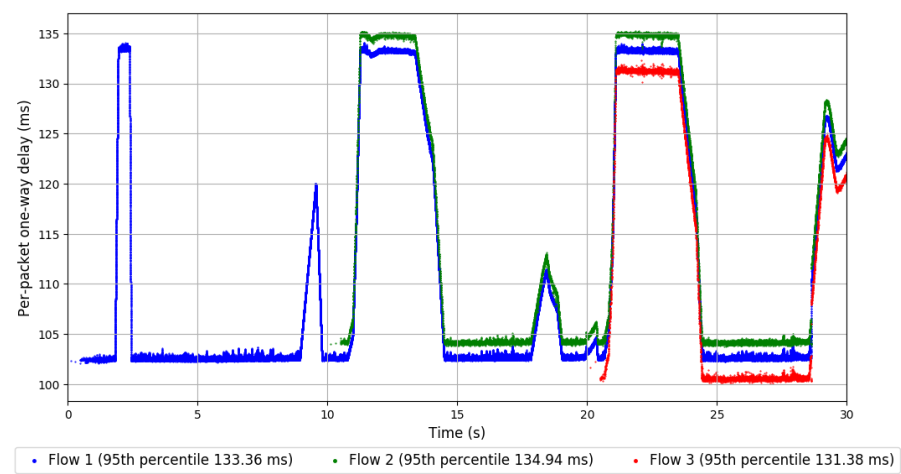
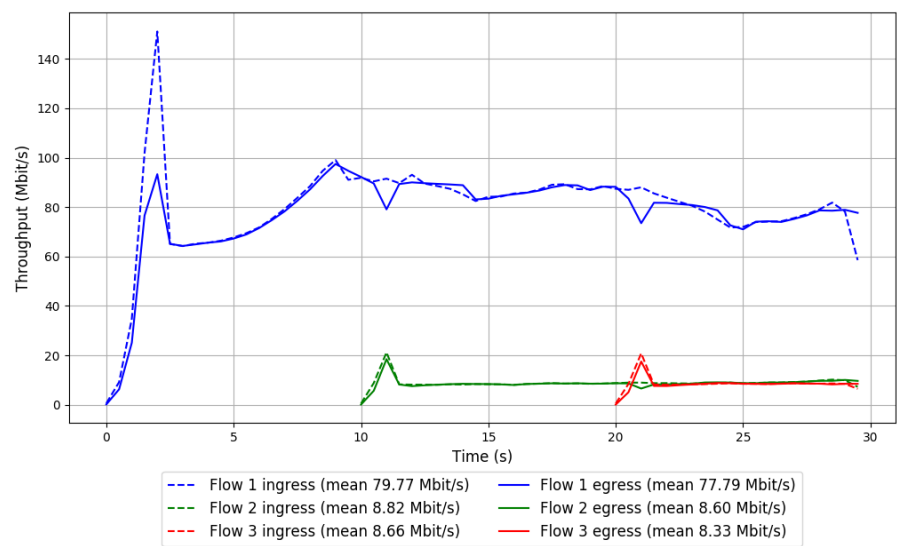
-- Flow 3:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 131.382 ms

Loss rate: 3.68%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-04 02:25:30

End at: 2018-02-04 02:26:00

Local clock offset: 0.027 ms

Remote clock offset: 2.698 ms

Below is generated by plot.py at 2018-02-04 03:13:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 134.755 ms

Loss rate: 2.86%

-- Flow 1:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 134.773 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 17.53 Mbit/s

95th percentile per-packet one-way delay: 132.955 ms

Loss rate: 3.13%

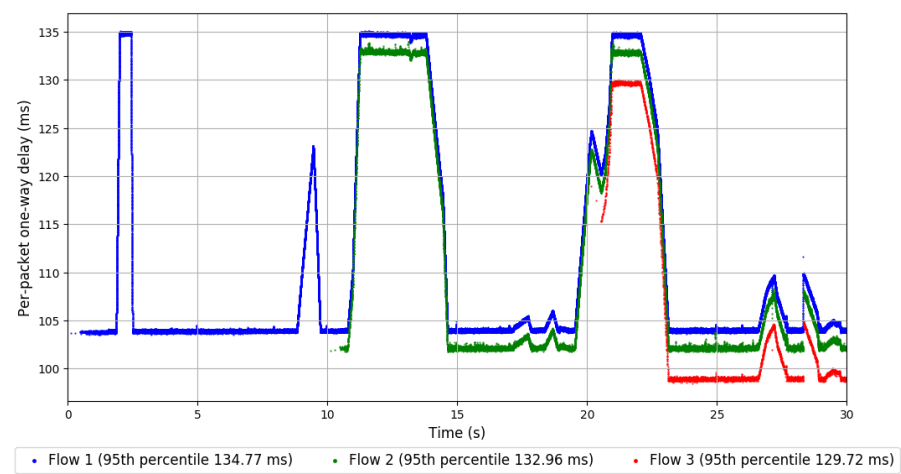
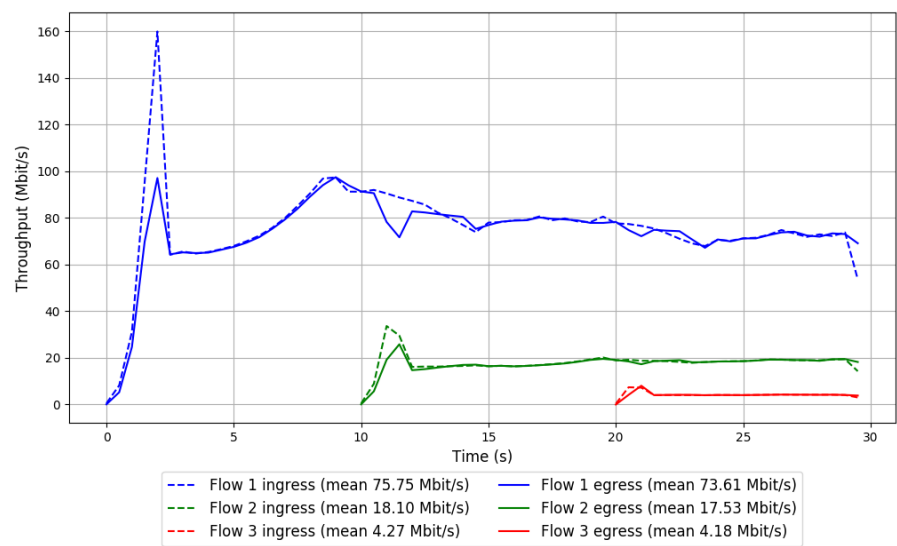
-- Flow 3:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 129.723 ms

Loss rate: 2.09%

Run 10: Report of PCC — Data Link

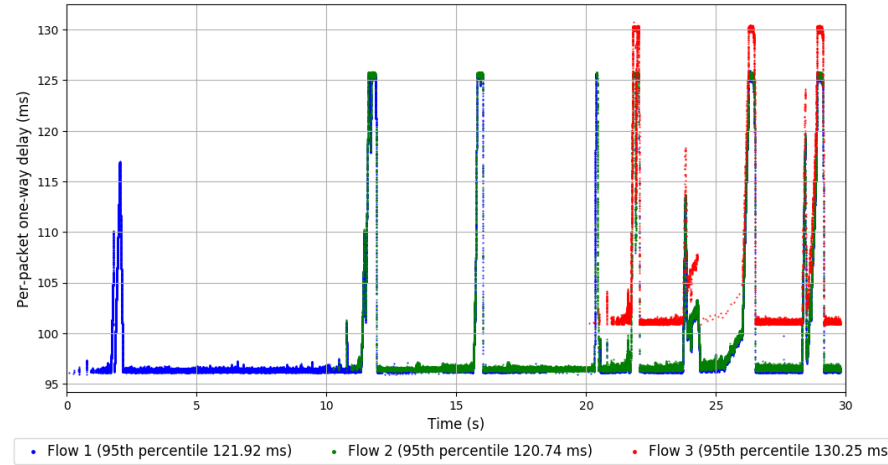
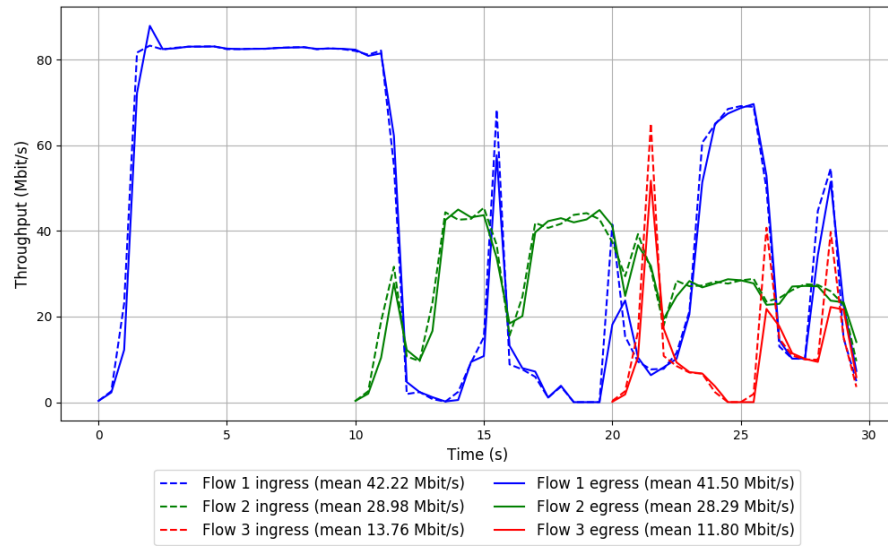


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-03 22:56:42
End at: 2018-02-03 22:57:12
Local clock offset: -0.019 ms
Remote clock offset: -3.252 ms

Below is generated by plot.py at 2018-02-04 03:13:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.10 Mbit/s
95th percentile per-packet one-way delay: 125.218 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 121.919 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 120.740 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 130.251 ms
Loss rate: 14.30%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-03 23:19:12

End at: 2018-02-03 23:19:42

Local clock offset: -0.044 ms

Remote clock offset: -3.4 ms

Below is generated by plot.py at 2018-02-04 03:13:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 121.648 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: 124.163 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 18.77 Mbit/s

95th percentile per-packet one-way delay: 114.423 ms

Loss rate: 0.24%

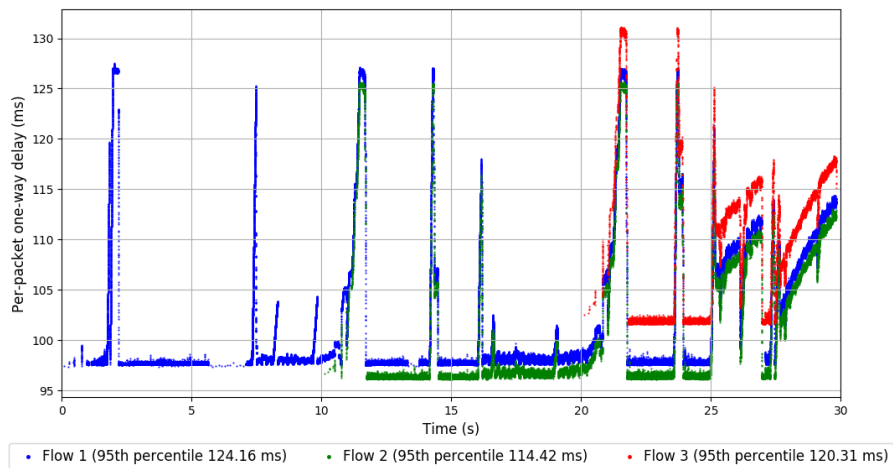
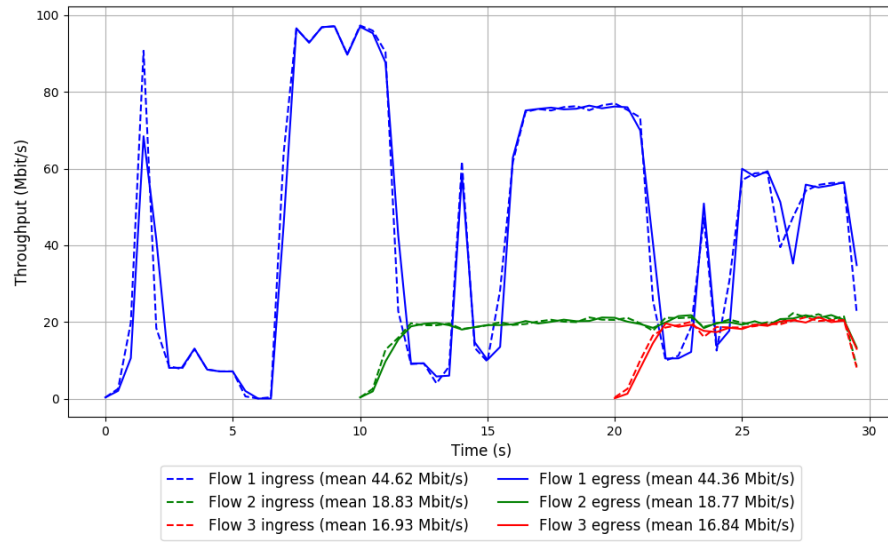
-- Flow 3:

Average throughput: 16.84 Mbit/s

95th percentile per-packet one-way delay: 120.306 ms

Loss rate: 0.41%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-03 23:41:42

End at: 2018-02-03 23:42:12

Local clock offset: 0.008 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-02-04 03:13:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 132.321 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 133.765 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 127.944 ms

Loss rate: 1.20%

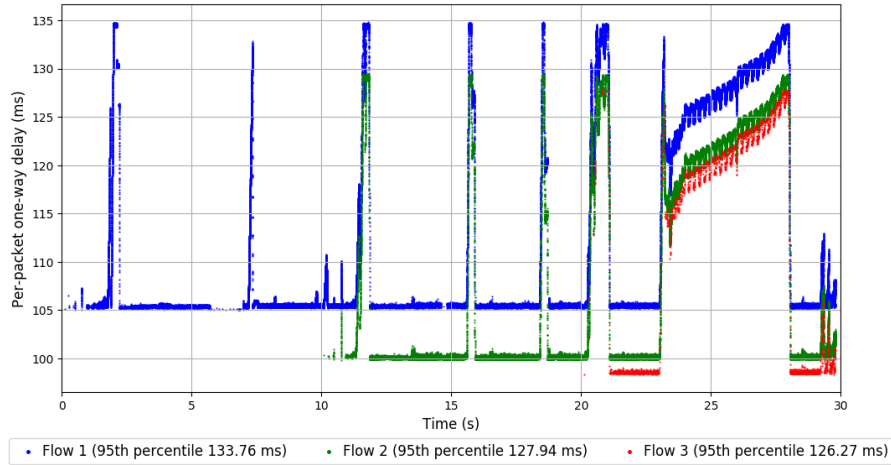
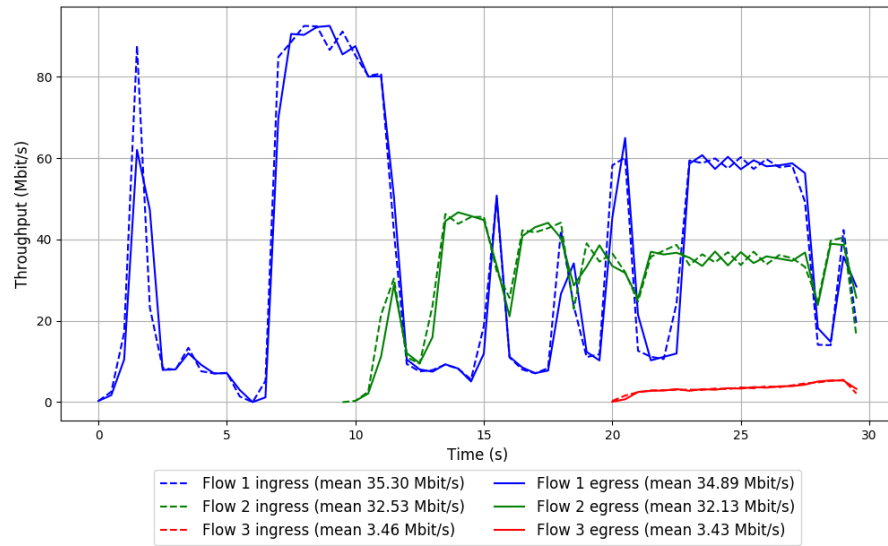
-- Flow 3:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 126.270 ms

Loss rate: 0.91%

Run 3: Report of QUIC Cubic — Data Link

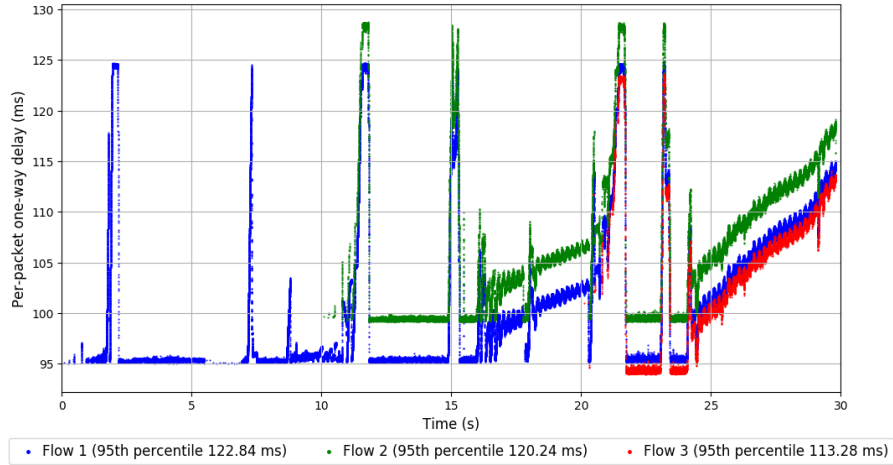
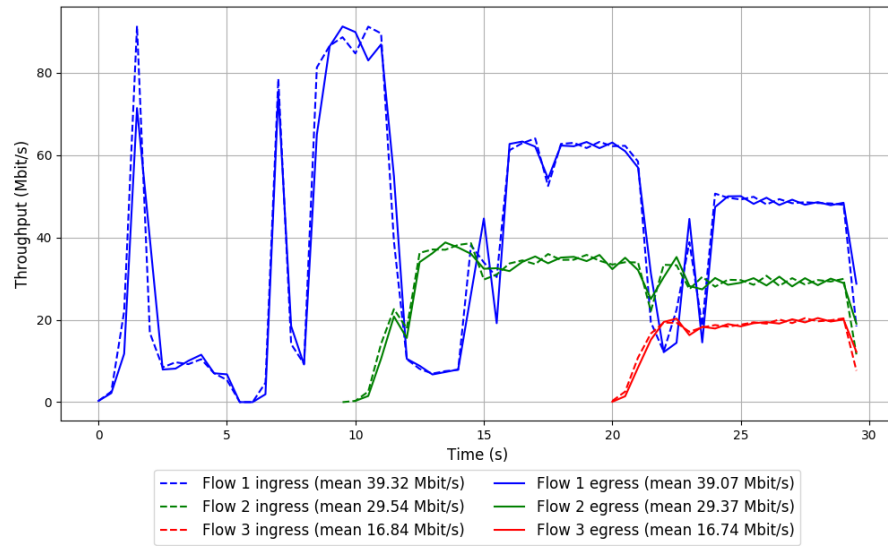


Run 4: Statistics of QUIC Cubic

Start at: 2018-02-04 00:04:13
End at: 2018-02-04 00:04:43
Local clock offset: 0.057 ms
Remote clock offset: -3.912 ms

Below is generated by plot.py at 2018-02-04 03:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.00 Mbit/s
95th percentile per-packet one-way delay: 122.181 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 122.842 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 120.237 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 113.285 ms
Loss rate: 0.47%

Run 4: Report of QUIC Cubic — Data Link

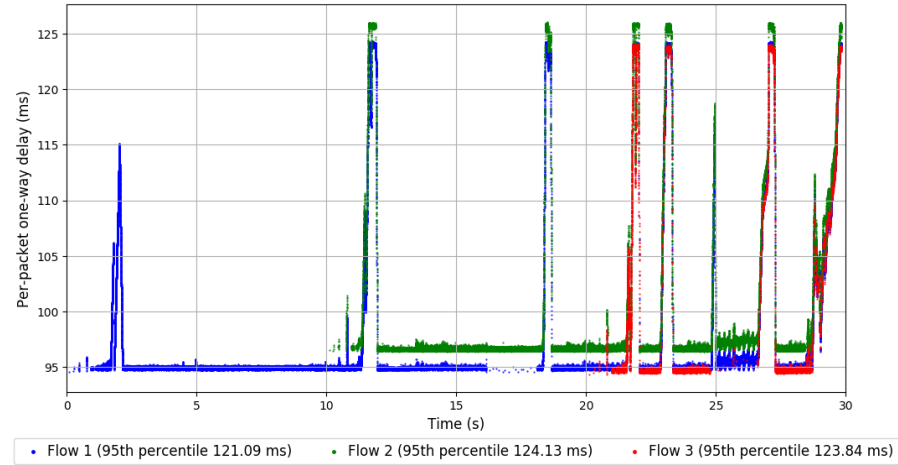
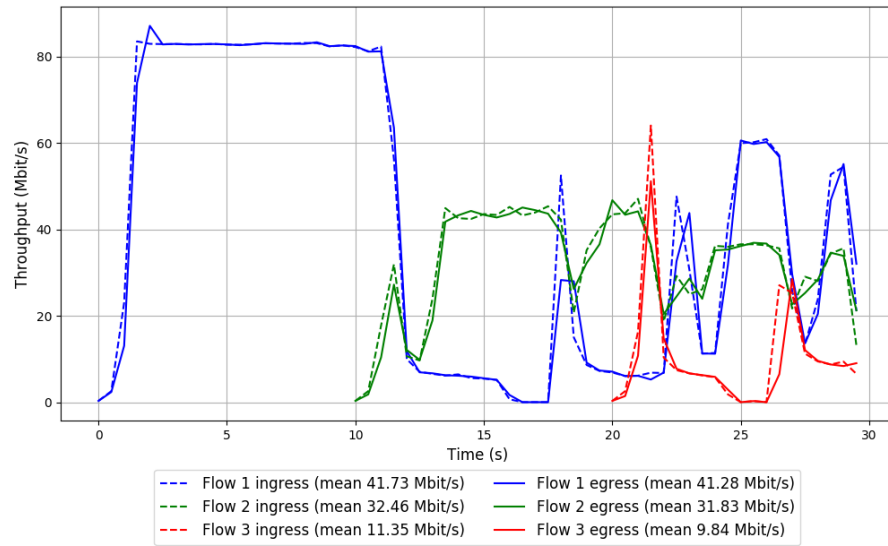


Run 5: Statistics of QUIC Cubic

Start at: 2018-02-04 00:26:42
End at: 2018-02-04 00:27:12
Local clock offset: 0.085 ms
Remote clock offset: -2.587 ms

Below is generated by plot.py at 2018-02-04 03:13:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.61 Mbit/s
95th percentile per-packet one-way delay: 123.401 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 41.28 Mbit/s
95th percentile per-packet one-way delay: 121.090 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 124.130 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 9.84 Mbit/s
95th percentile per-packet one-way delay: 123.838 ms
Loss rate: 13.04%

Run 5: Report of QUIC Cubic — Data Link

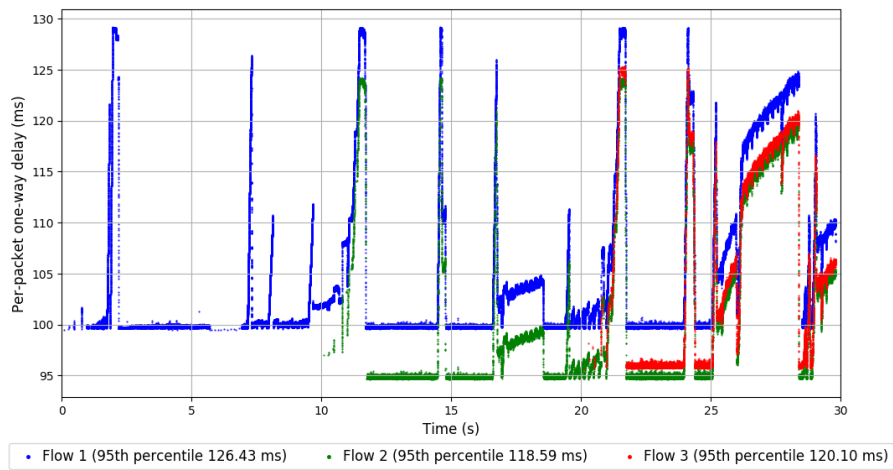
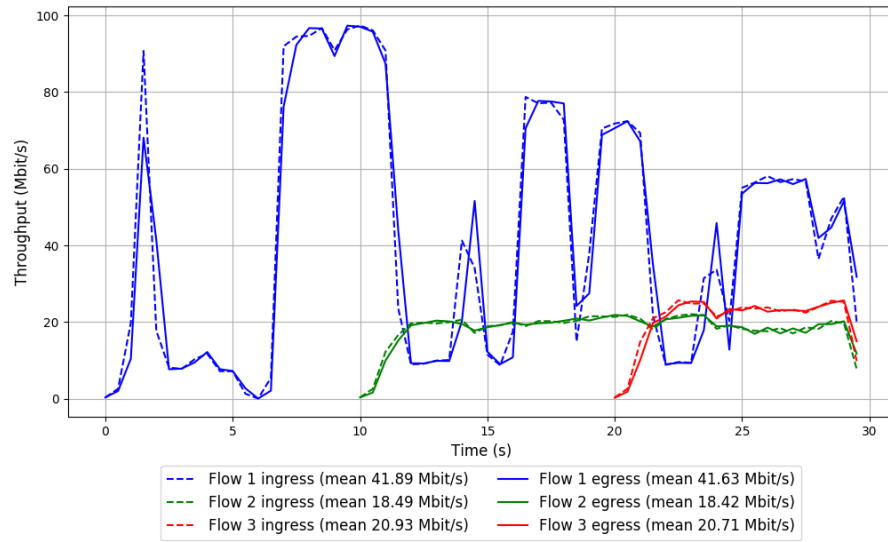


Run 6: Statistics of QUIC Cubic

Start at: 2018-02-04 00:49:12
End at: 2018-02-04 00:49:42
Local clock offset: 0.08 ms
Remote clock offset: -2.279 ms

Below is generated by plot.py at 2018-02-04 03:13:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 123.828 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 41.63 Mbit/s
95th percentile per-packet one-way delay: 126.429 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 118.586 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 120.101 ms
Loss rate: 0.93%

Run 6: Report of QUIC Cubic — Data Link

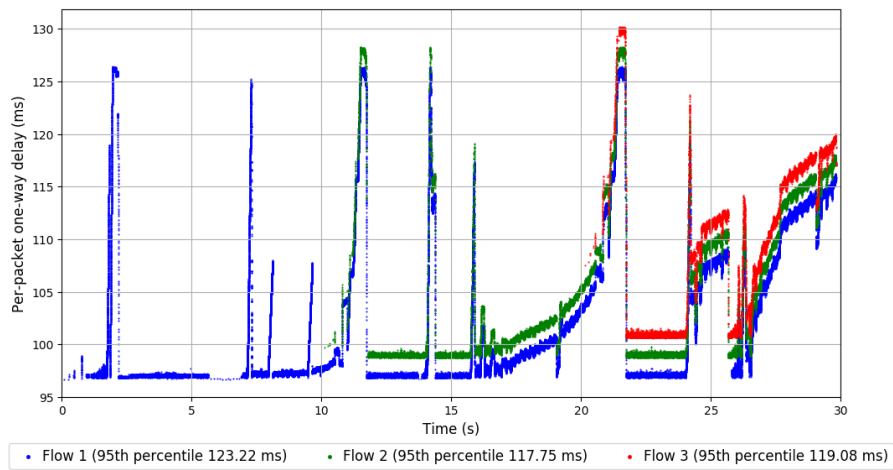
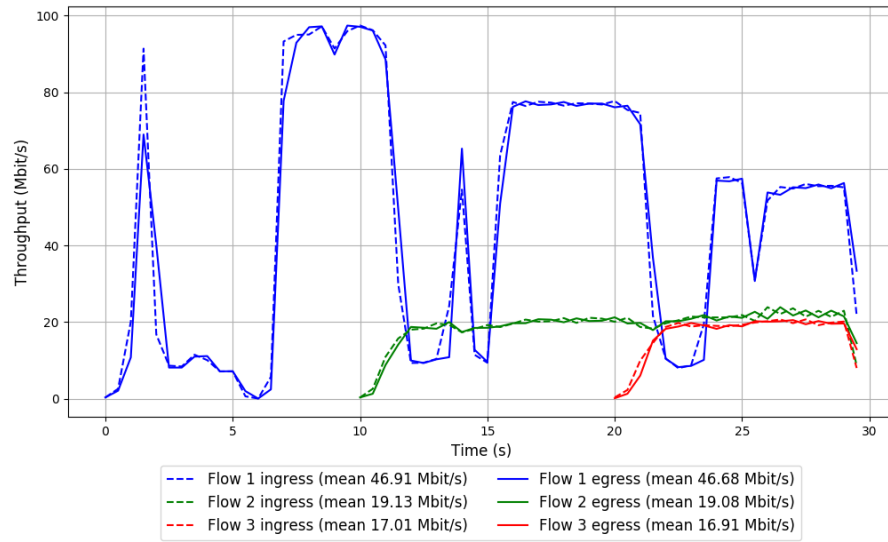


Run 7: Statistics of QUIC Cubic

Start at: 2018-02-04 01:11:40
End at: 2018-02-04 01:12:10
Local clock offset: 0.008 ms
Remote clock offset: -2.687 ms

Below is generated by plot.py at 2018-02-04 03:14:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.83 Mbit/s
95th percentile per-packet one-way delay: 120.433 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 46.68 Mbit/s
95th percentile per-packet one-way delay: 123.216 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 117.747 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 119.081 ms
Loss rate: 0.45%

Run 7: Report of QUIC Cubic — Data Link

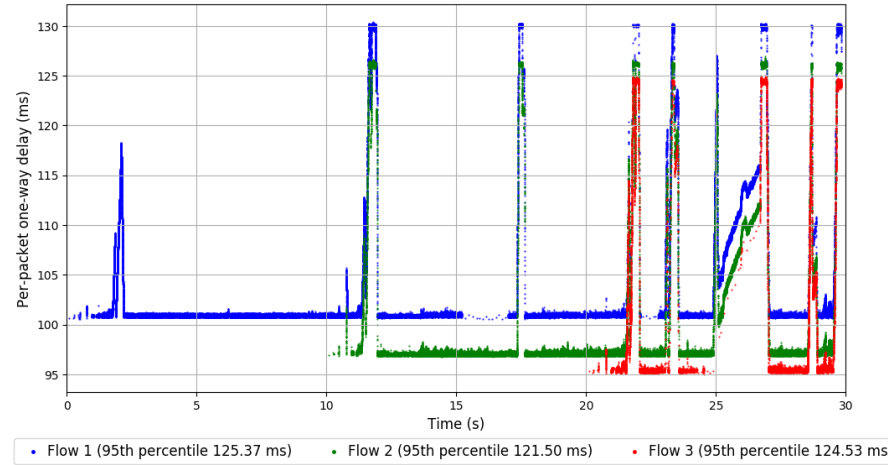
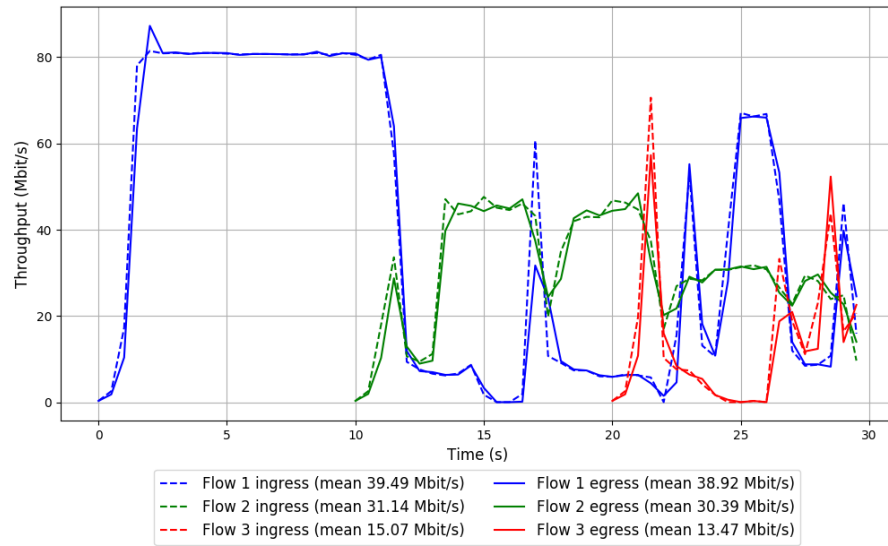


Run 8: Statistics of QUIC Cubic

Start at: 2018-02-04 01:34:09
End at: 2018-02-04 01:34:39
Local clock offset: 0.062 ms
Remote clock offset: -2.574 ms

Below is generated by plot.py at 2018-02-04 03:14:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 124.539 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 125.371 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 30.39 Mbit/s
95th percentile per-packet one-way delay: 121.499 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 13.47 Mbit/s
95th percentile per-packet one-way delay: 124.527 ms
Loss rate: 10.33%

Run 8: Report of QUIC Cubic — Data Link

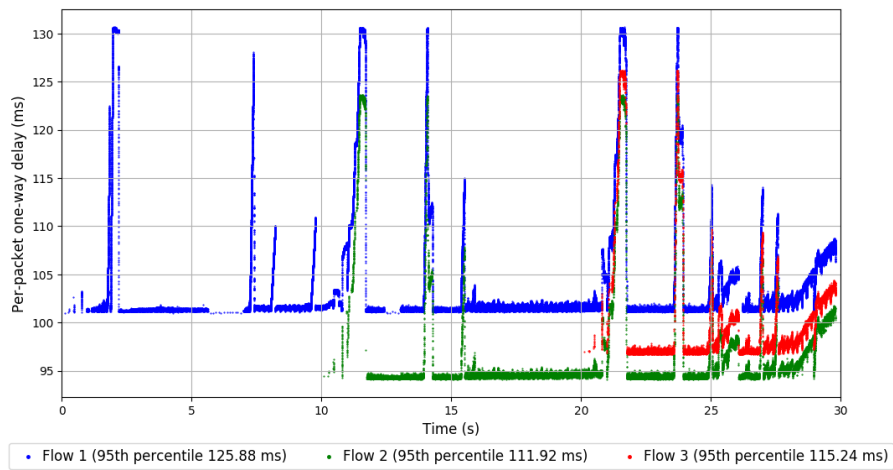
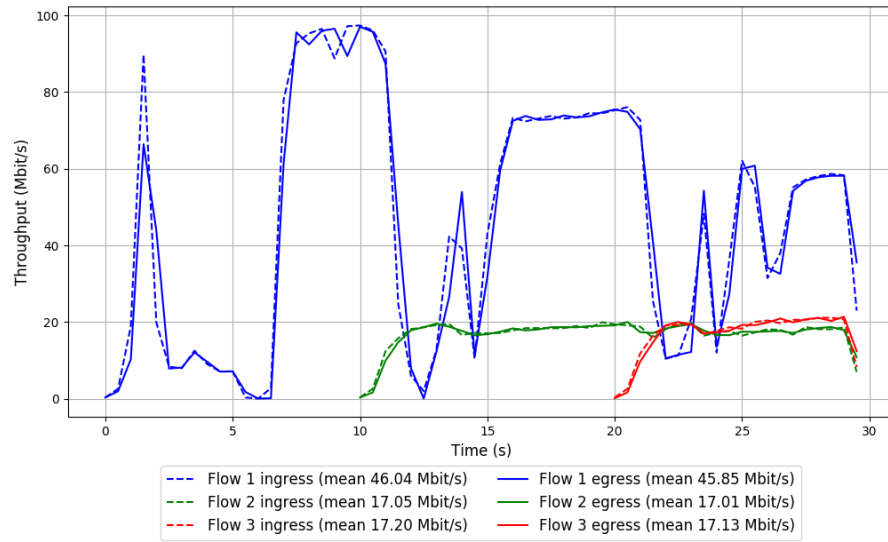


Run 9: Statistics of QUIC Cubic

Start at: 2018-02-04 01:56:36
End at: 2018-02-04 01:57:06
Local clock offset: 0.127 ms
Remote clock offset: -1.527 ms

Below is generated by plot.py at 2018-02-04 03:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.71 Mbit/s
95th percentile per-packet one-way delay: 122.138 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 45.85 Mbit/s
95th percentile per-packet one-way delay: 125.881 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 17.01 Mbit/s
95th percentile per-packet one-way delay: 111.918 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 17.13 Mbit/s
95th percentile per-packet one-way delay: 115.239 ms
Loss rate: 0.34%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-04 02:19:03

End at: 2018-02-04 02:19:33

Local clock offset: 0.038 ms

Remote clock offset: 4.313 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 129.693 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 43.52 Mbit/s

95th percentile per-packet one-way delay: 128.132 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 130.121 ms

Loss rate: 2.32%

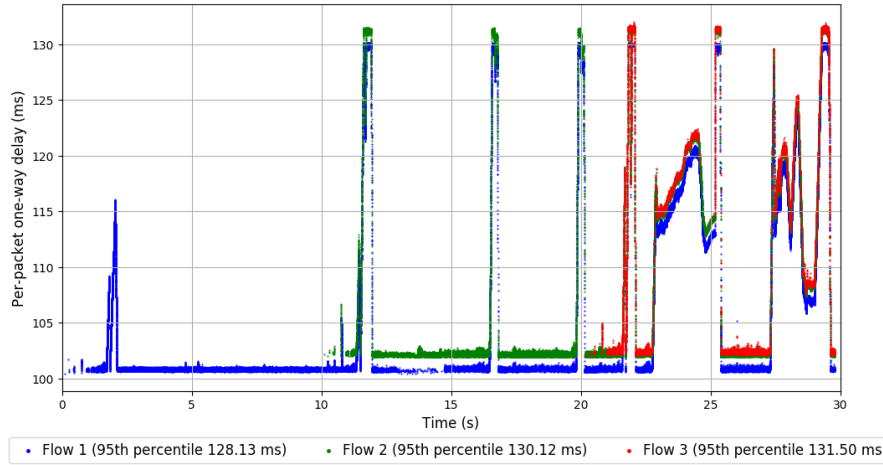
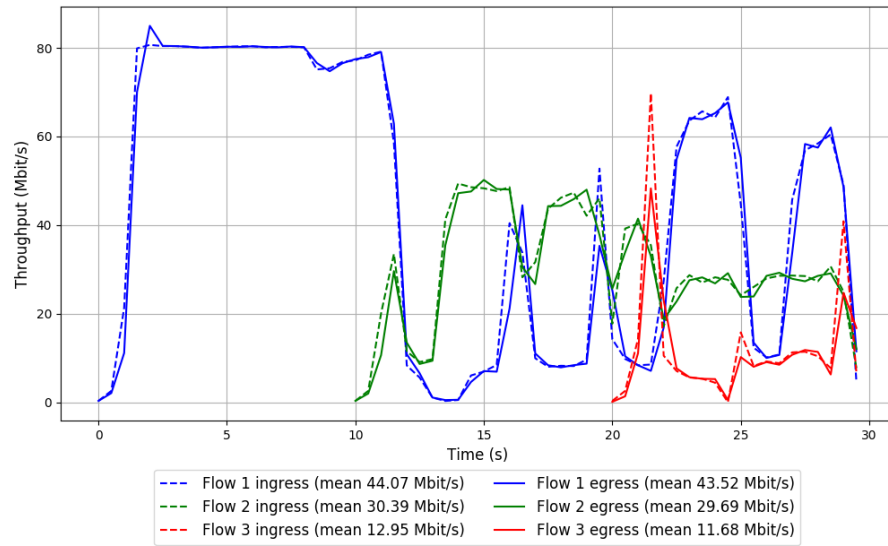
-- Flow 3:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 131.495 ms

Loss rate: 9.85%

Run 10: Report of QUIC Cubic — Data Link

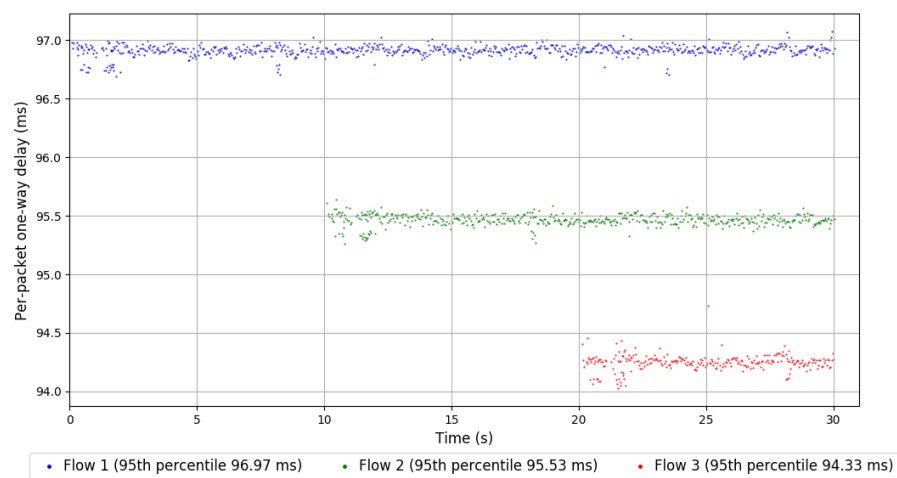
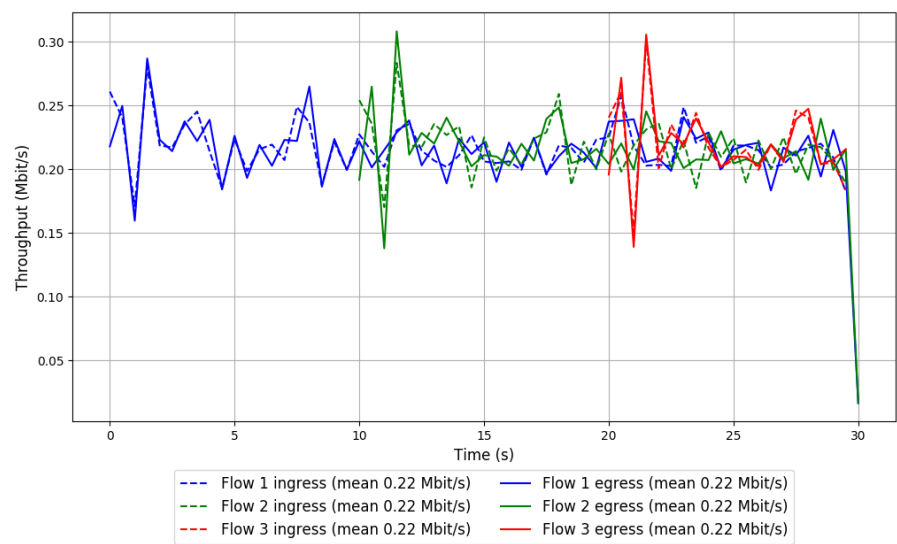


```
Run 1: Statistics of SReAM

Start at: 2018-02-03 23:15:17
End at: 2018-02-03 23:15:47
Local clock offset: -0.094 ms
Remote clock offset: -4.145 ms

# Below is generated by plot.py at 2018-02-04 03:14:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 96.956 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.971 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.528 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.335 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

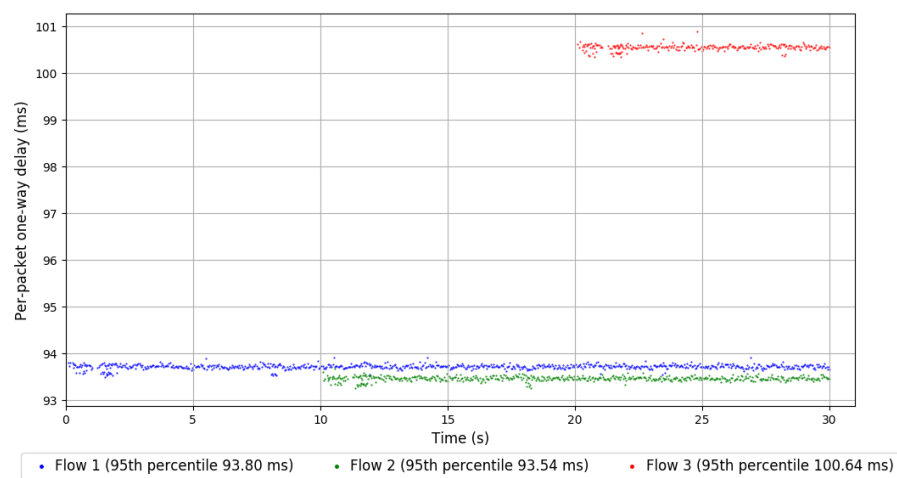
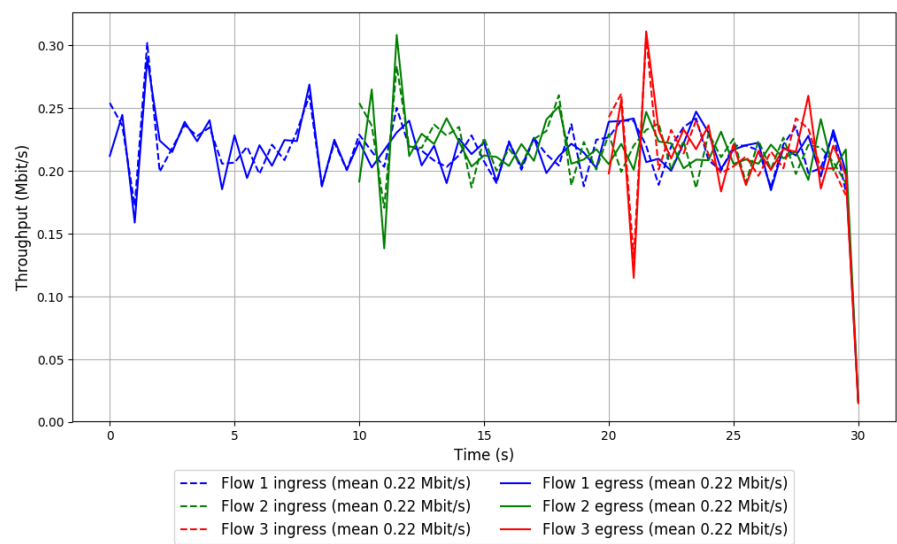


Run 2: Statistics of SReAM

Start at: 2018-02-03 23:37:47
End at: 2018-02-03 23:38:17
Local clock offset: 0.01 ms
Remote clock offset: -4.111 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 100.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.795 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.543 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.635 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-02-04 00:00:17

End at: 2018-02-04 00:00:47

Local clock offset: 0.026 ms

Remote clock offset: 0.843 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 105.674 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 105.699 ms

Loss rate: 0.00%

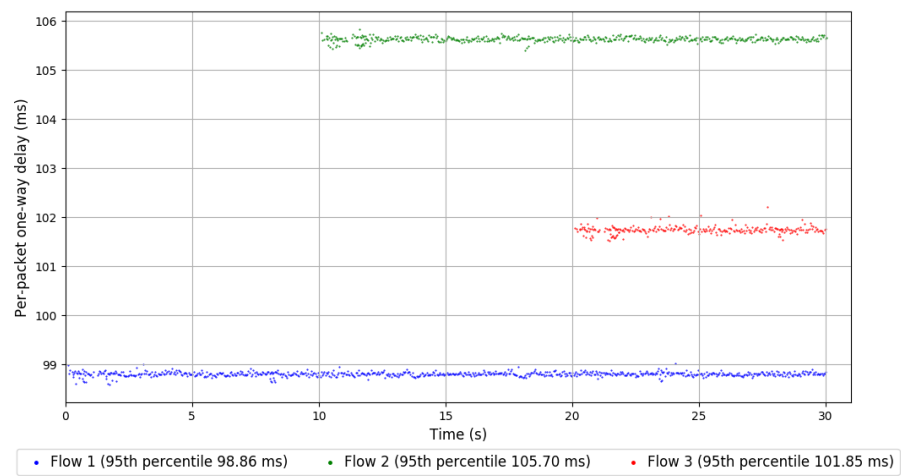
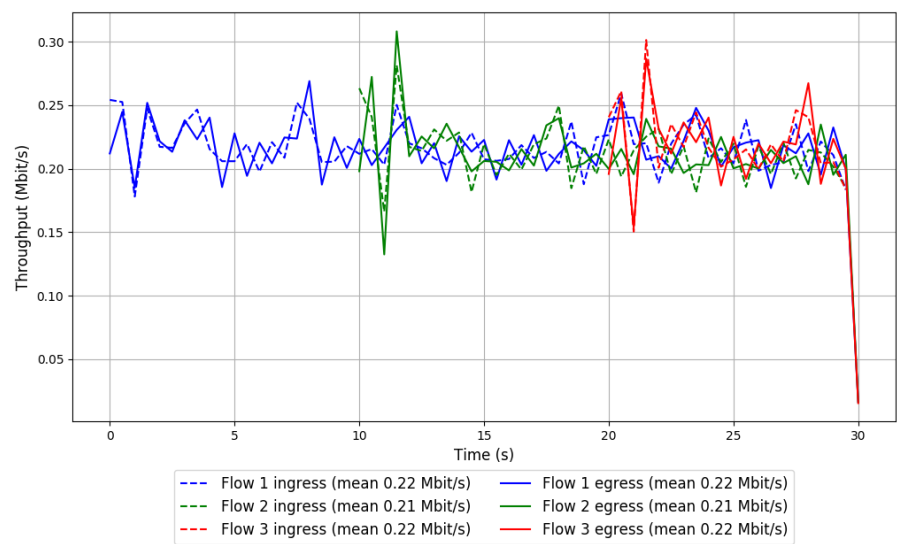
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.848 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

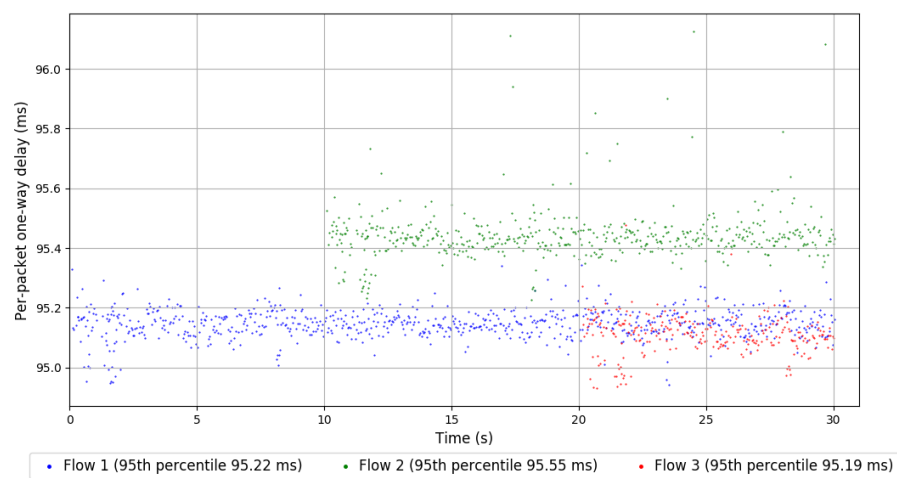
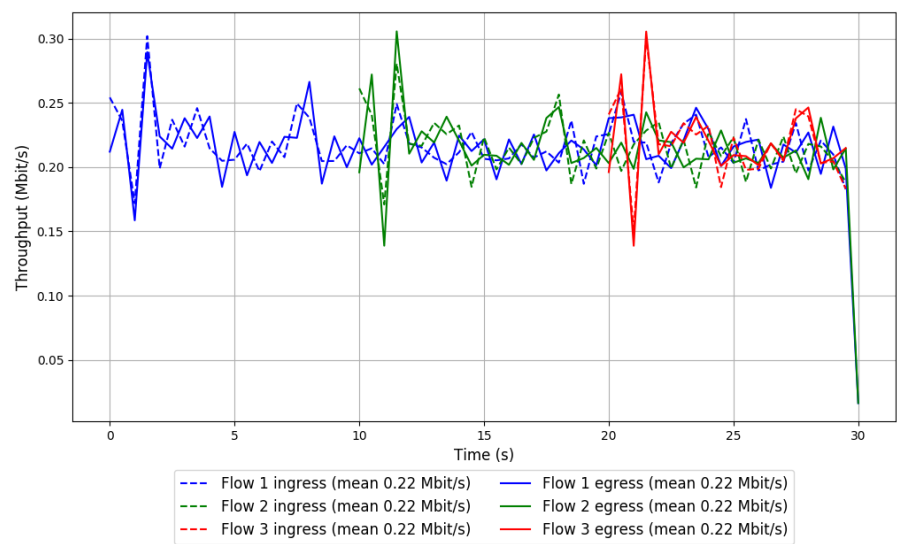


Run 4: Statistics of SReAM

Start at: 2018-02-04 00:22:46
End at: 2018-02-04 00:23:16
Local clock offset: 0.02 ms
Remote clock offset: -3.591 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 95.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.216 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.546 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.194 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-02-04 00:45:14

End at: 2018-02-04 00:45:44

Local clock offset: 0.028 ms

Remote clock offset: 2.55 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 107.771 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 107.790 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 106.303 ms

Loss rate: 0.00%

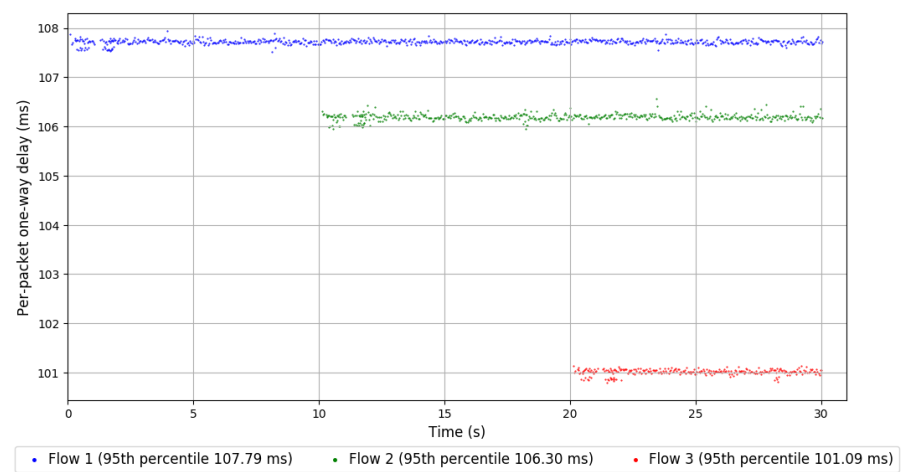
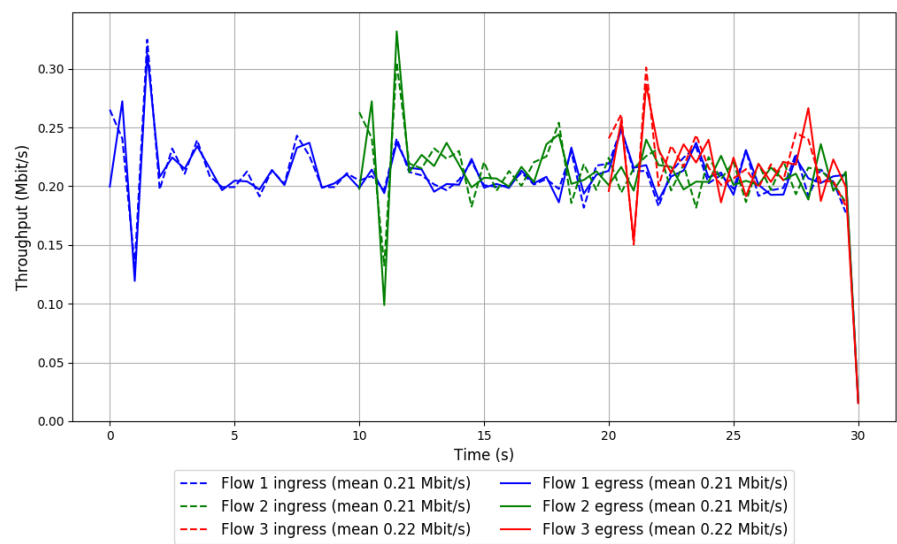
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.091 ms

Loss rate: 0.00%

Run 5: Report of SCRaM — Data Link

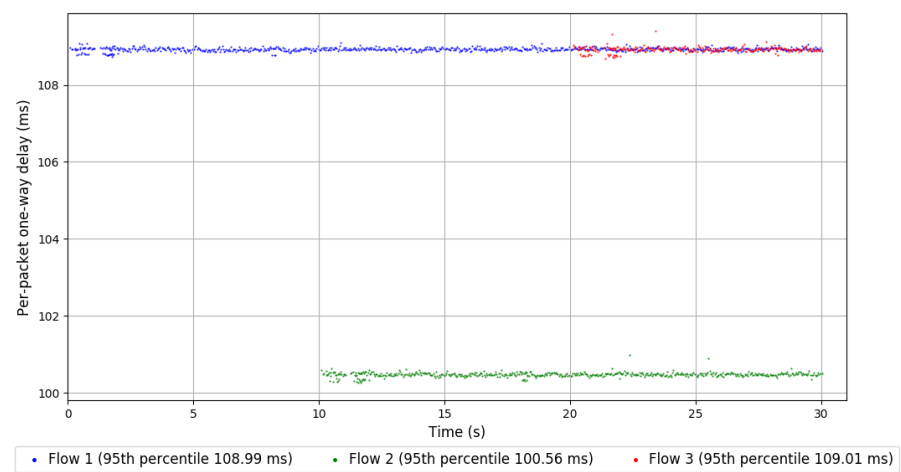
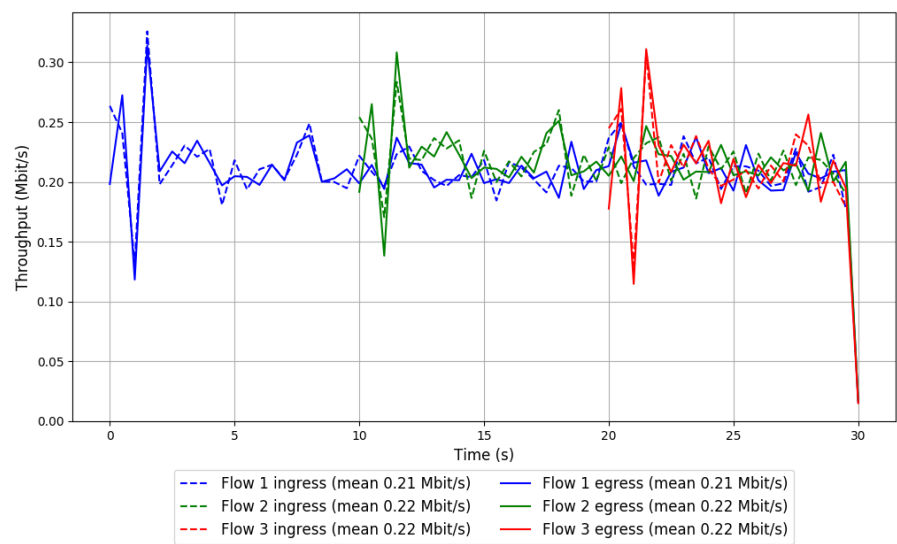


Run 6: Statistics of SReAM

Start at: 2018-02-04 01:07:44
End at: 2018-02-04 01:08:14
Local clock offset: -0.072 ms
Remote clock offset: 3.663 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 108.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 108.994 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.555 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.006 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

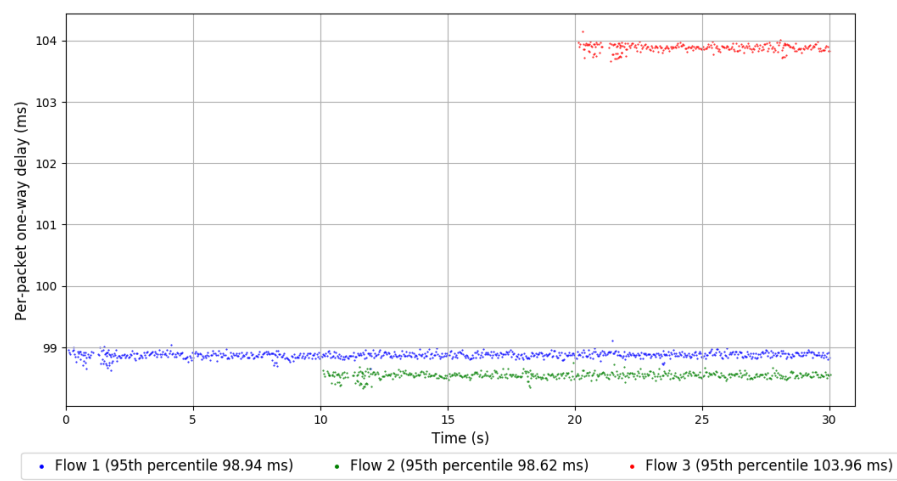
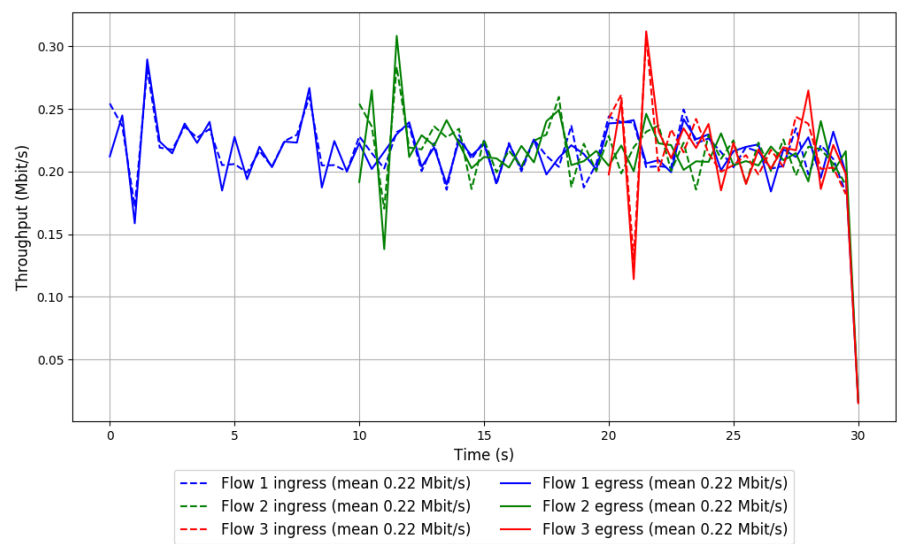


Run 7: Statistics of SReAM

Start at: 2018-02-04 01:30:13
End at: 2018-02-04 01:30:43
Local clock offset: 0.021 ms
Remote clock offset: 2.261 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 103.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.617 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 103.963 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

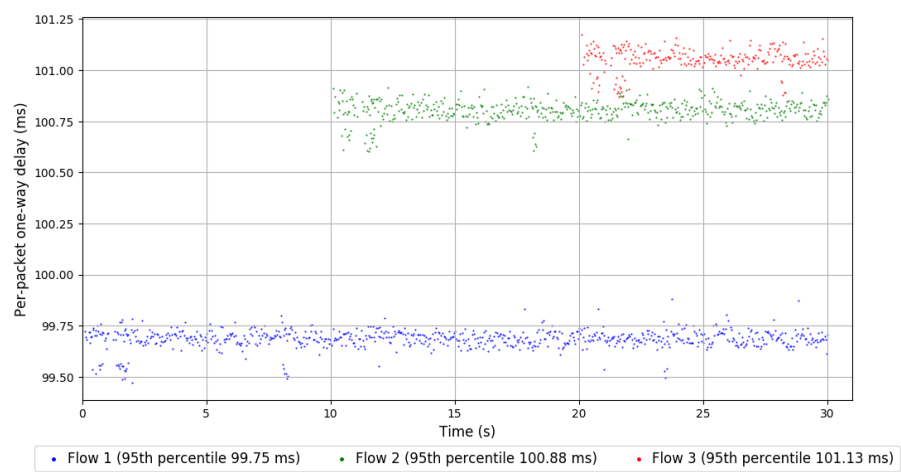
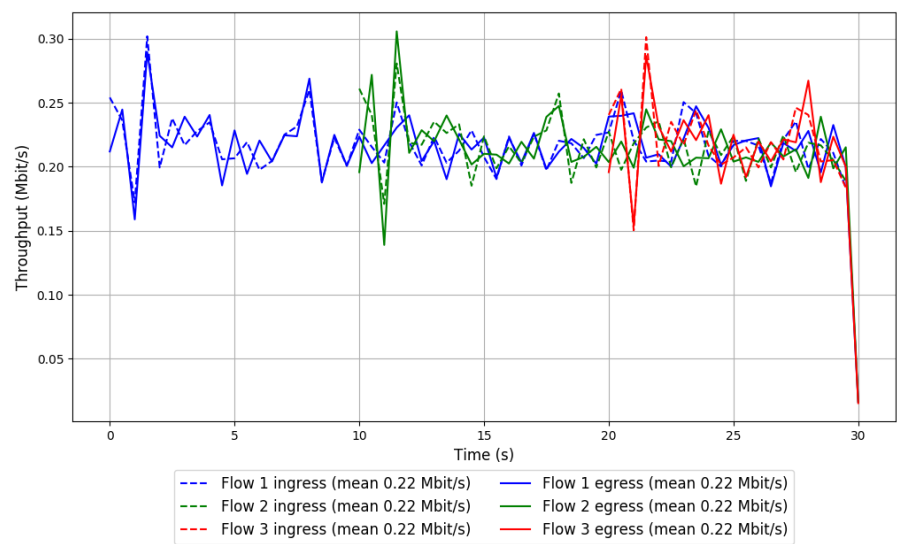


Run 8: Statistics of SReAM

Start at: 2018-02-04 01:52:40
End at: 2018-02-04 01:53:10
Local clock offset: 0.129 ms
Remote clock offset: 3.346 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 101.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.745 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.876 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.131 ms
Loss rate: 0.00%

Run 8: Report of SCRaM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-02-04 02:15:08

End at: 2018-02-04 02:15:38

Local clock offset: 0.067 ms

Remote clock offset: 3.436 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 102.742 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.531 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.992 ms

Loss rate: 0.00%

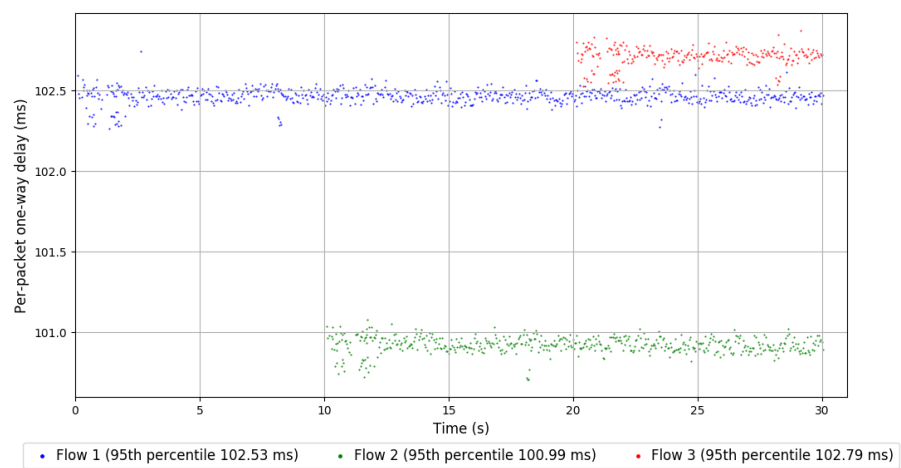
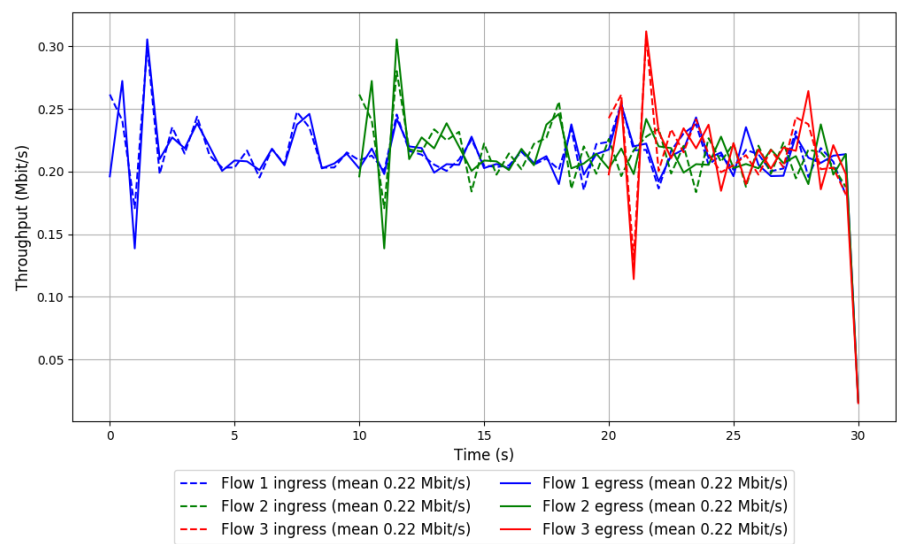
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.788 ms

Loss rate: 0.00%

Run 9: Report of SCRaM — Data Link

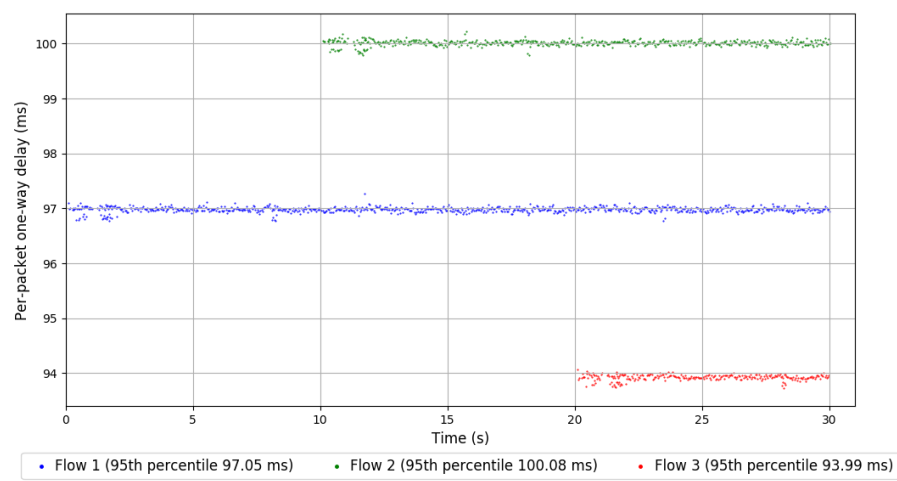
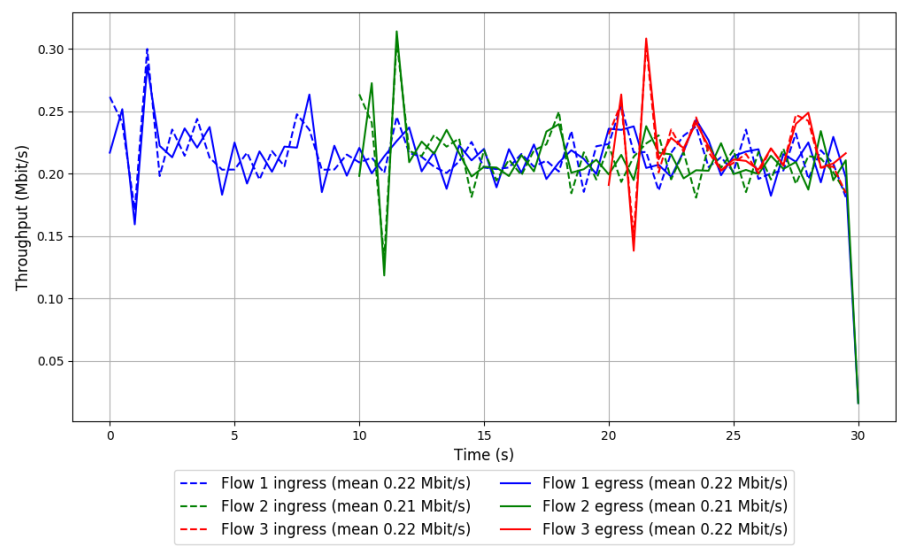


Run 10: Statistics of SReAM

Start at: 2018-02-04 02:37:35
End at: 2018-02-04 02:38:05
Local clock offset: 0.014 ms
Remote clock offset: -2.153 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 100.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.053 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 100.080 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.992 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

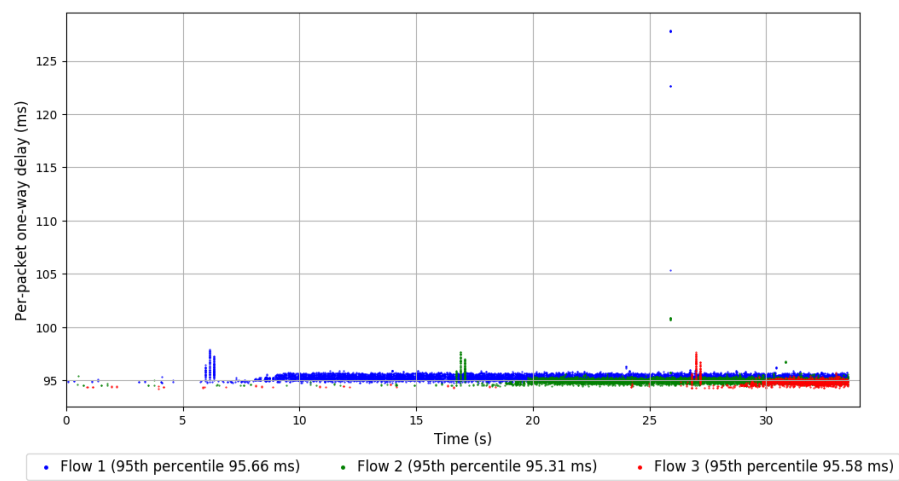
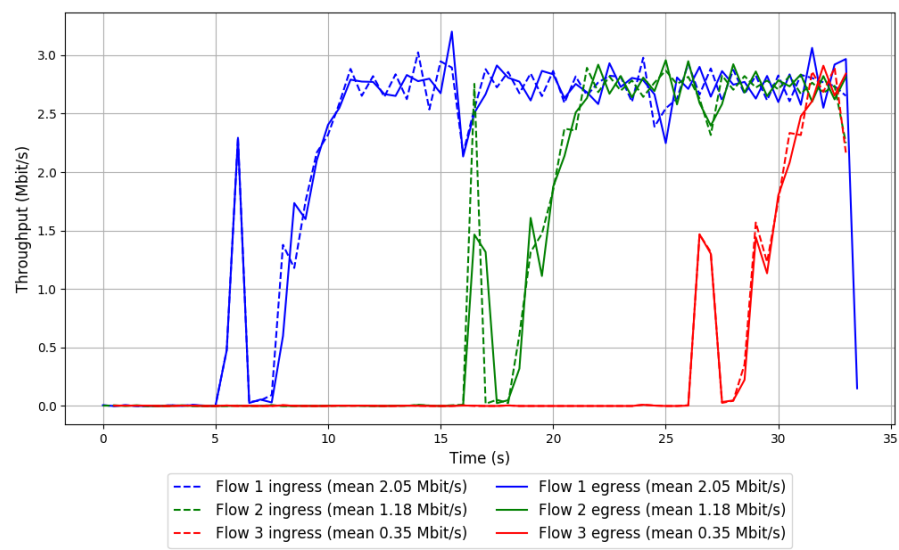


Run 1: Statistics of WebRTC media

Start at: 2018-02-03 23:00:36
End at: 2018-02-03 23:01:07
Local clock offset: -0.07 ms
Remote clock offset: -3.323 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 95.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 95.657 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 95.308 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 95.575 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

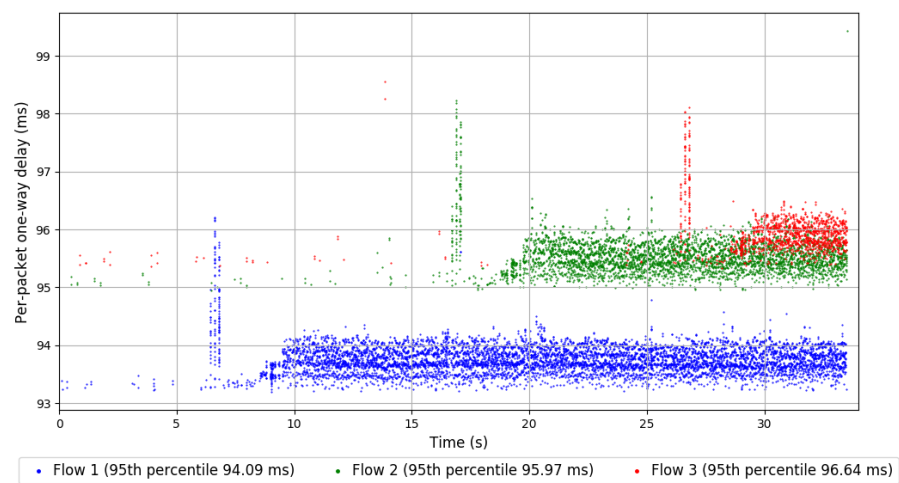
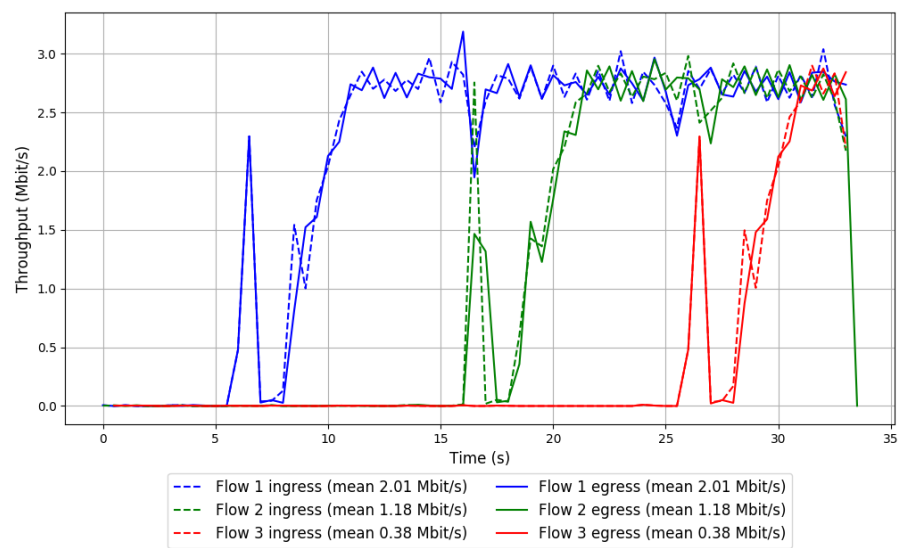


Run 2: Statistics of WebRTC media

Start at: 2018-02-03 23:23:06
End at: 2018-02-03 23:23:36
Local clock offset: -0.024 ms
Remote clock offset: -4.141 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 96.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 94.088 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 95.966 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 96.643 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-03 23:45:36

End at: 2018-02-03 23:46:06

Local clock offset: 0.031 ms

Remote clock offset: 1.605 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 103.076 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 103.126 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 101.630 ms

Loss rate: 0.00%

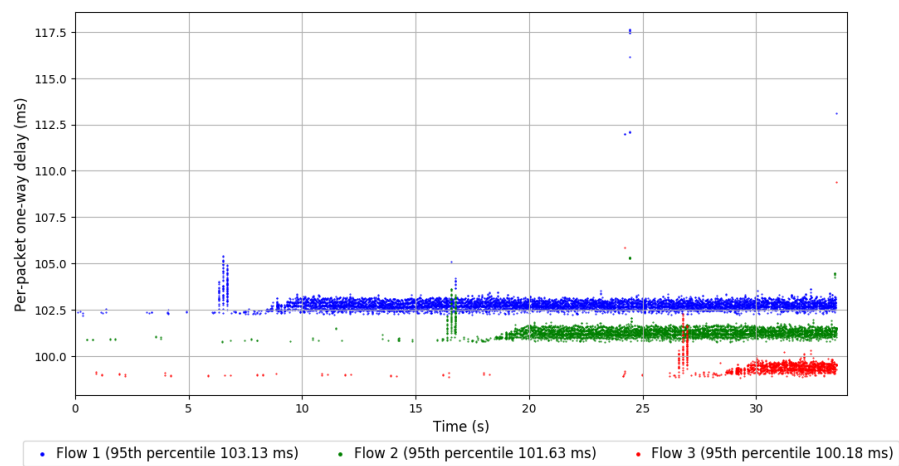
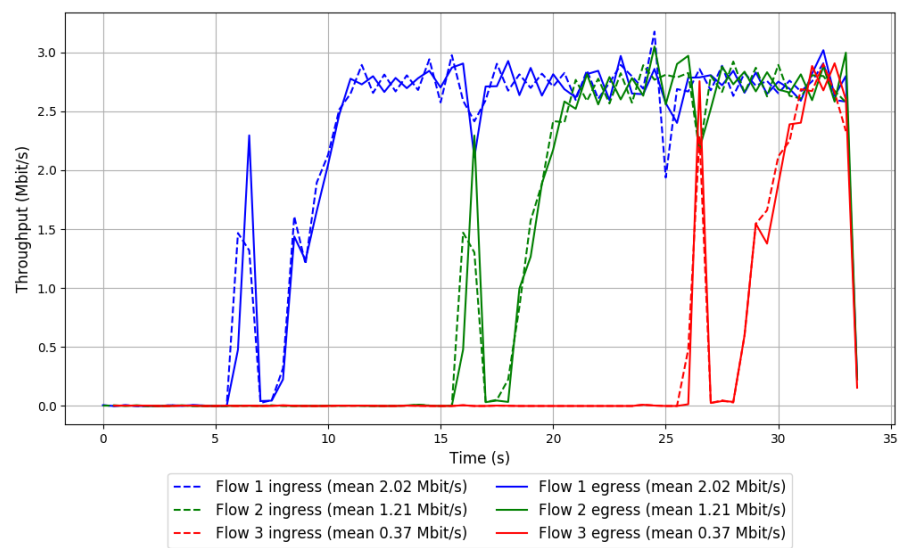
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 100.183 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-04 00:08:08

End at: 2018-02-04 00:08:38

Local clock offset: 0.117 ms

Remote clock offset: 2.63 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 102.349 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 100.797 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 102.308 ms

Loss rate: 0.00%

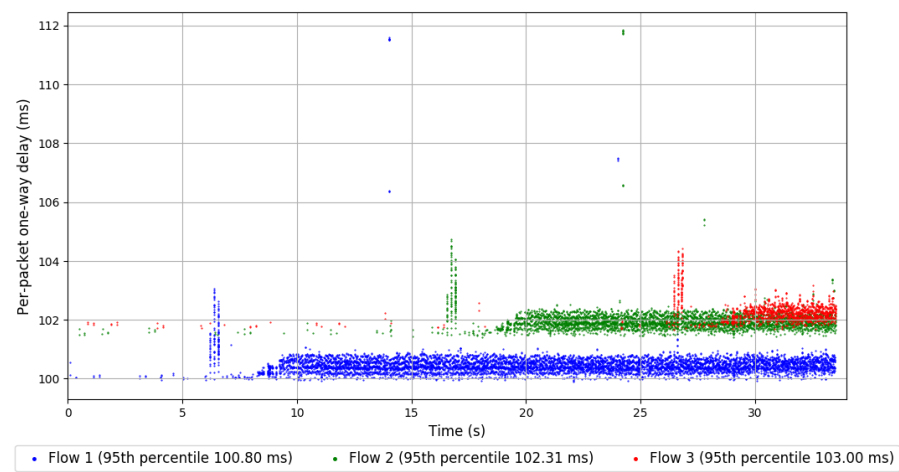
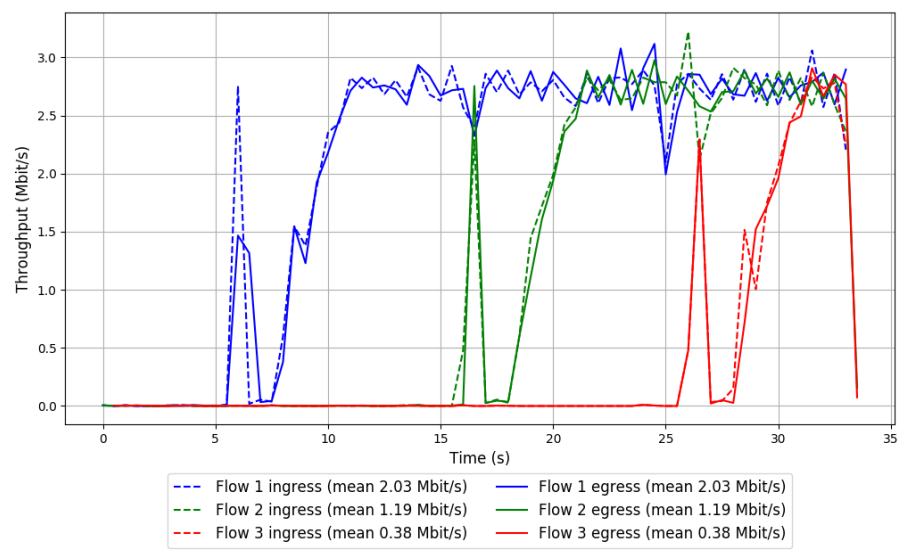
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 103.000 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

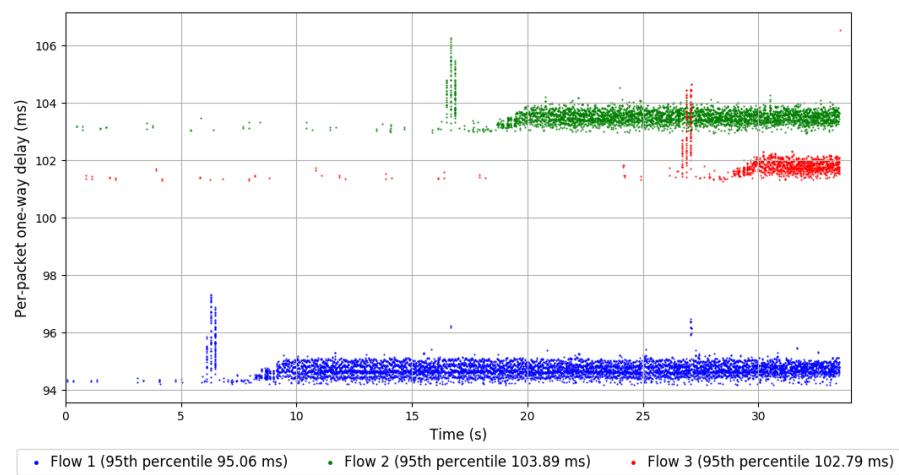
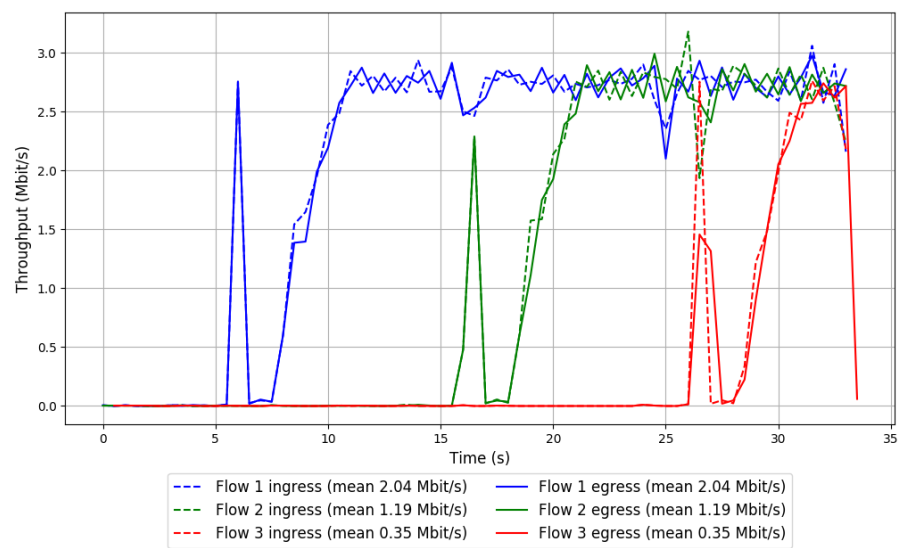


Run 5: Statistics of WebRTC media

Start at: 2018-02-04 00:30:36
End at: 2018-02-04 00:31:06
Local clock offset: 0.068 ms
Remote clock offset: -2.539 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 103.751 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 95.056 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 103.890 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 102.788 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-04 00:53:06

End at: 2018-02-04 00:53:36

Local clock offset: 0.05 ms

Remote clock offset: -2.16 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 96.792 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 96.825 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 95.726 ms

Loss rate: 0.00%

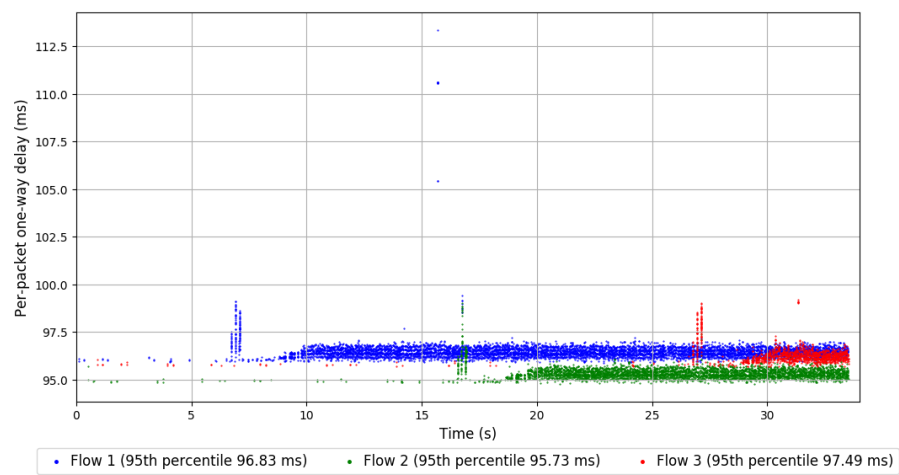
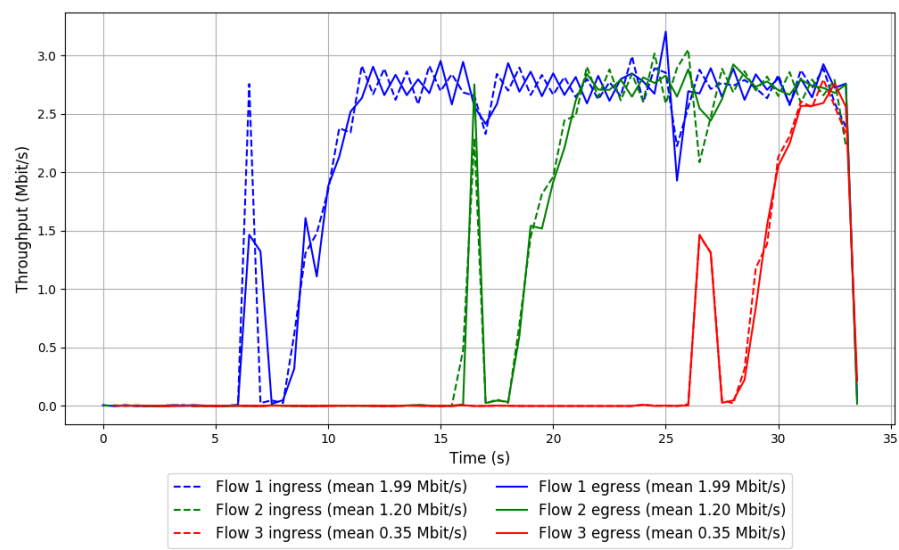
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 97.490 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-04 01:15:34

End at: 2018-02-04 01:16:04

Local clock offset: -0.028 ms

Remote clock offset: -2.71 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 97.231 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 94.545 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 95.942 ms

Loss rate: 0.00%

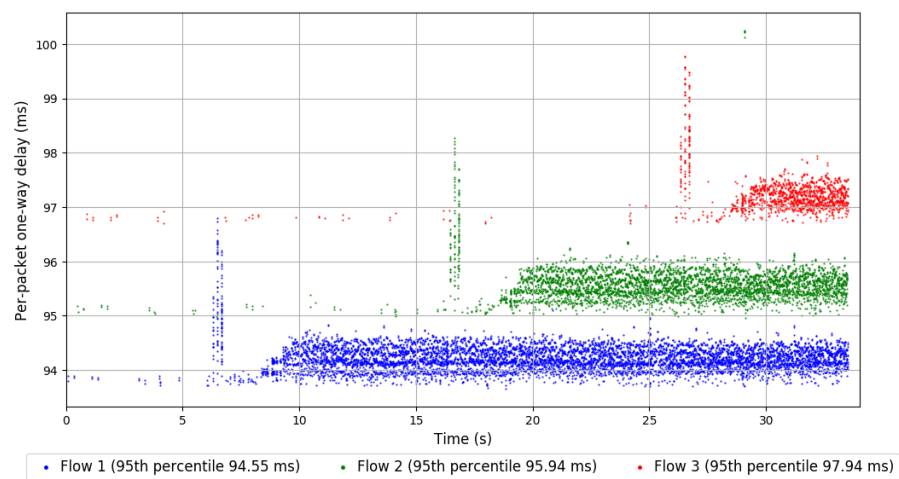
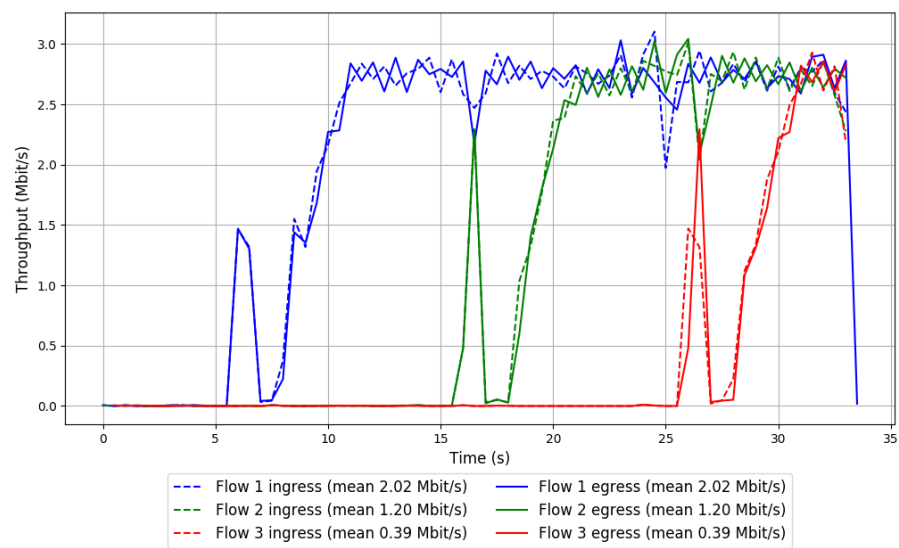
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 97.943 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-04 01:38:03

End at: 2018-02-04 01:38:33

Local clock offset: 0.144 ms

Remote clock offset: 4.042 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 102.919 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 102.538 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 103.073 ms

Loss rate: 0.00%

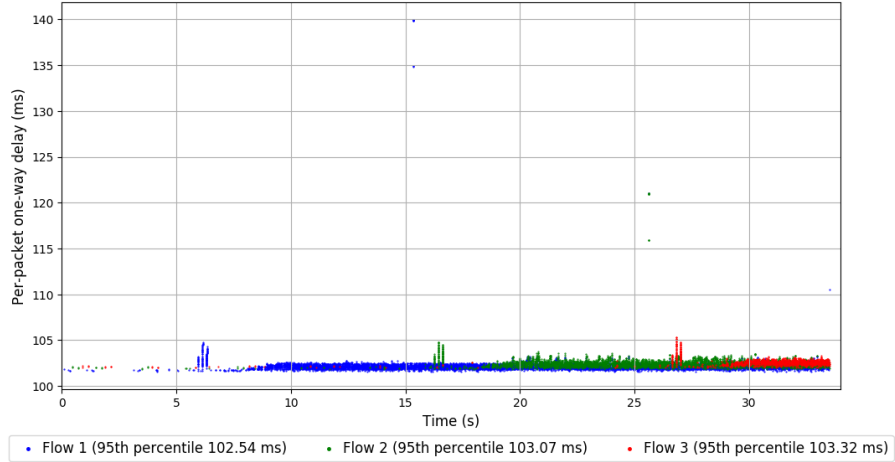
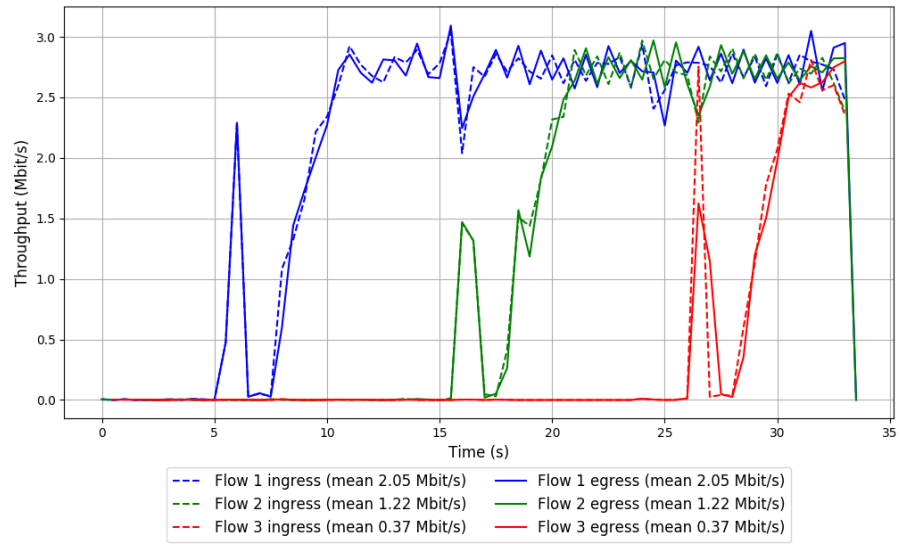
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 103.322 ms

Loss rate: 0.01%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-04 02:00:30

End at: 2018-02-04 02:01:00

Local clock offset: 0.106 ms

Remote clock offset: 3.375 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 101.923 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 101.957 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 99.663 ms

Loss rate: 0.00%

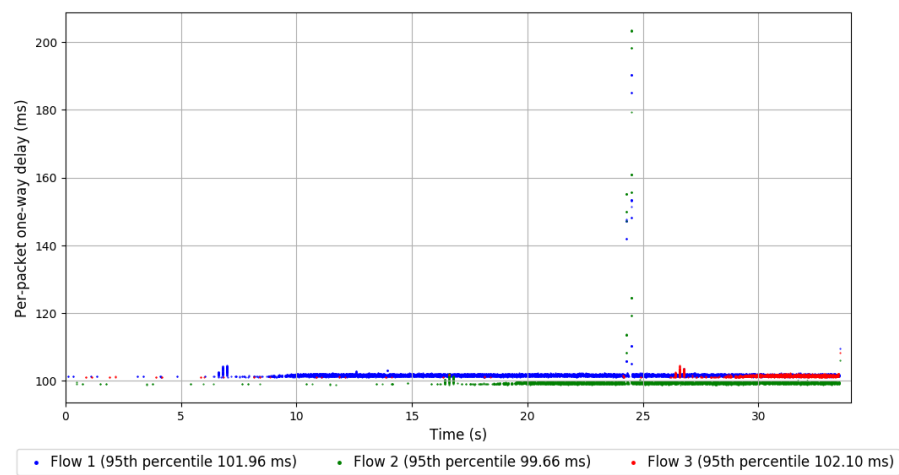
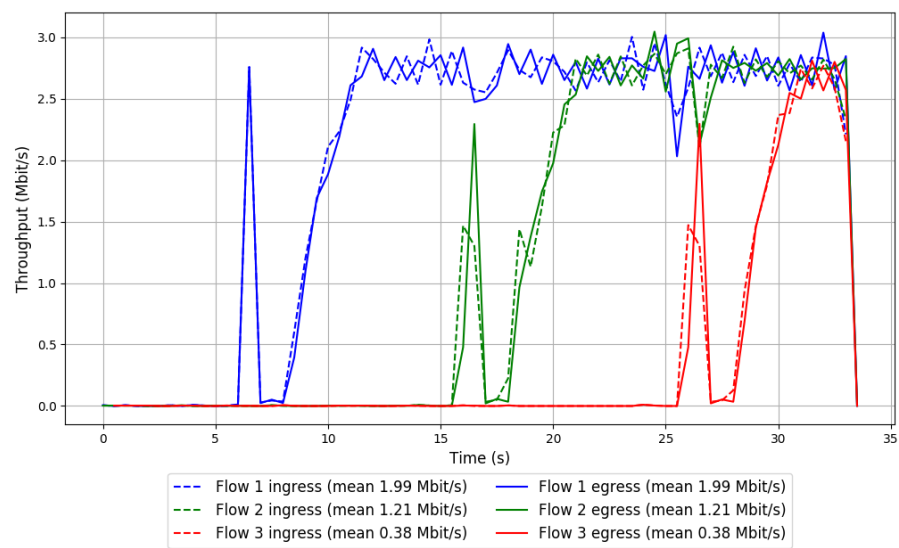
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 102.099 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

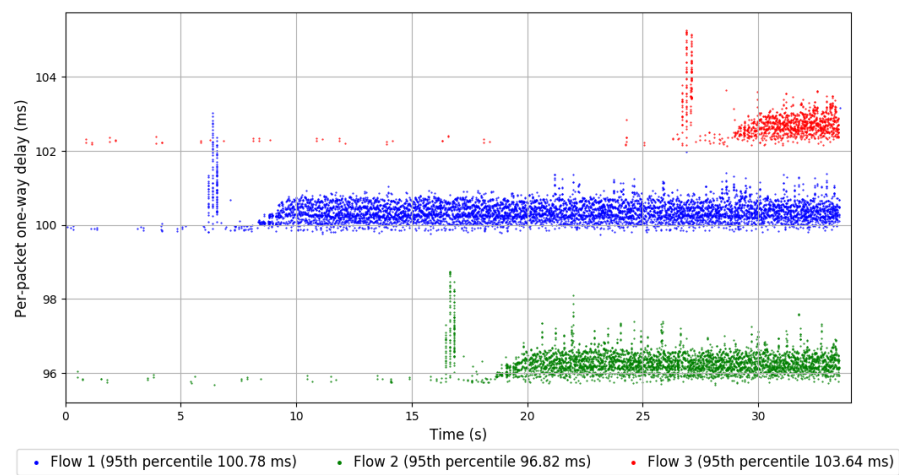
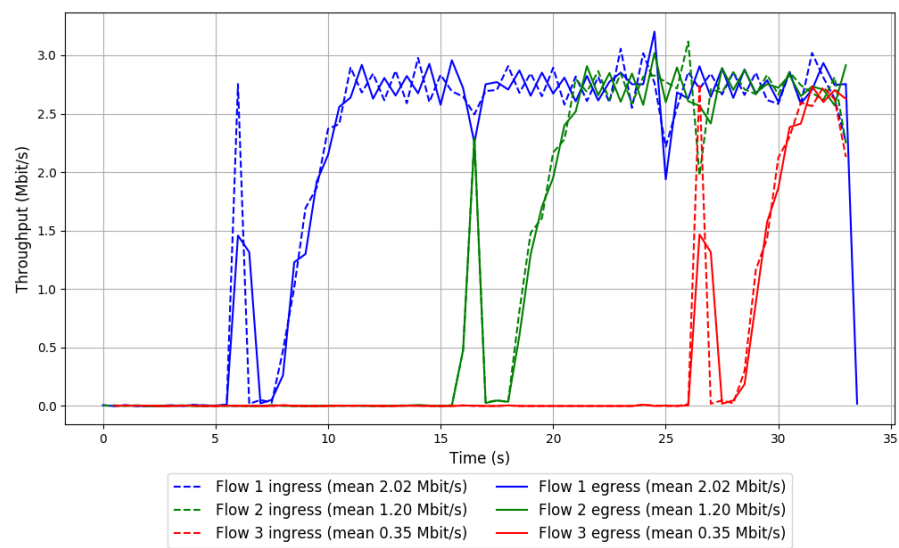


Run 10: Statistics of WebRTC media

Start at: 2018-02-04 02:22:57
End at: 2018-02-04 02:23:27
Local clock offset: 0.033 ms
Remote clock offset: -2.173 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 102.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 100.779 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 96.823 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 103.638 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-03 22:59:21

End at: 2018-02-03 22:59:51

Local clock offset: -0.02 ms

Remote clock offset: 1.529 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.26 Mbit/s

95th percentile per-packet one-way delay: 108.177 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 107.405 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 109.113 ms

Loss rate: 0.00%

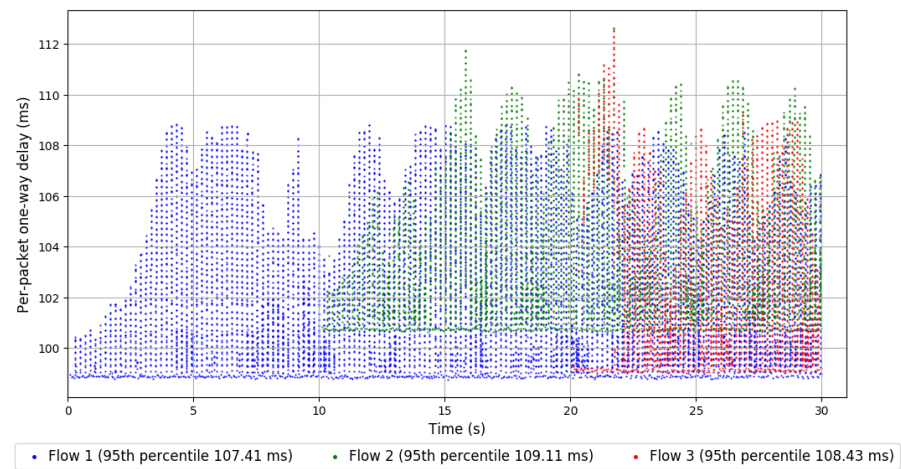
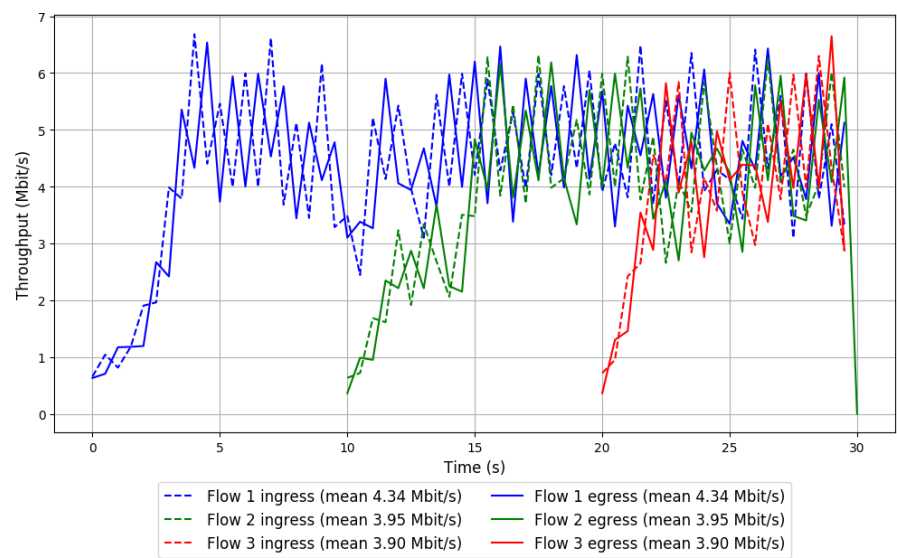
-- Flow 3:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 108.431 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

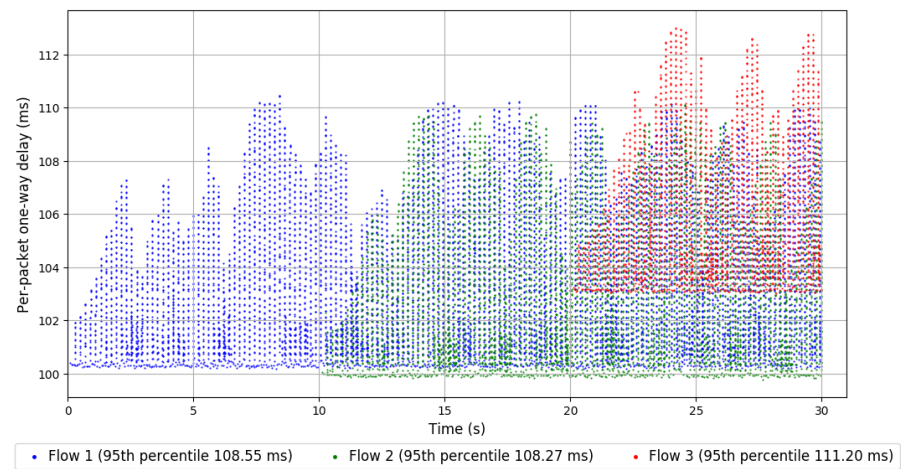
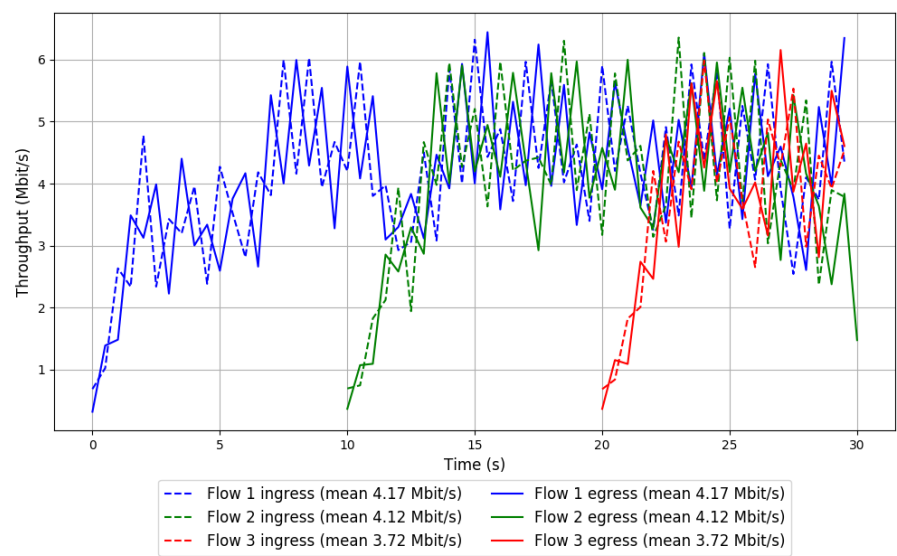


Run 2: Statistics of Sprout

Start at: 2018-02-03 23:21:51
End at: 2018-02-03 23:22:21
Local clock offset: -0.028 ms
Remote clock offset: 2.293 ms

```
# Below is generated by plot.py at 2018-02-04 03:14:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 109.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 108.549 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 108.269 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 111.201 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

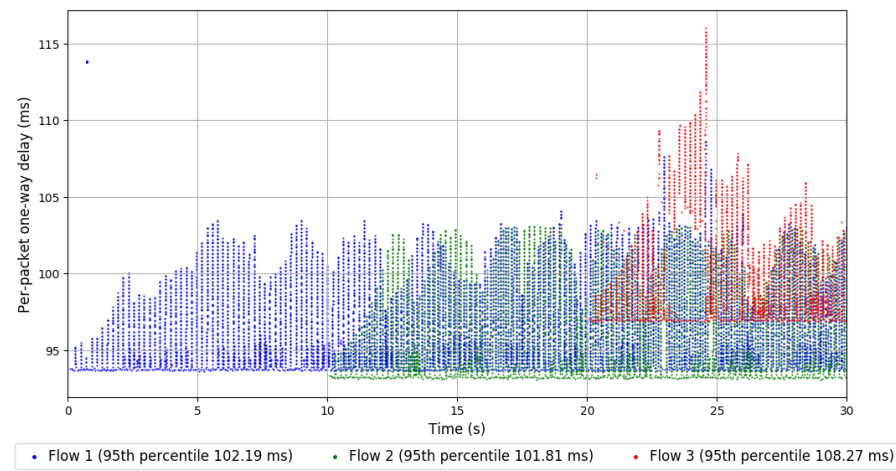
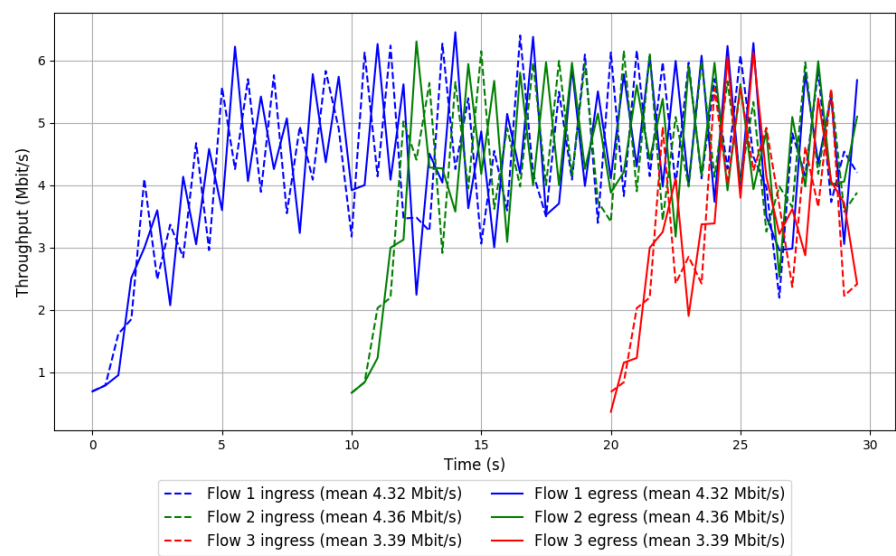


Run 3: Statistics of Sprout

Start at: 2018-02-03 23:44:21
End at: 2018-02-03 23:44:51
Local clock offset: -0.035 ms
Remote clock offset: -4.123 ms

```
# Below is generated by plot.py at 2018-02-04 03:14:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 102.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 102.187 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 101.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 108.273 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link

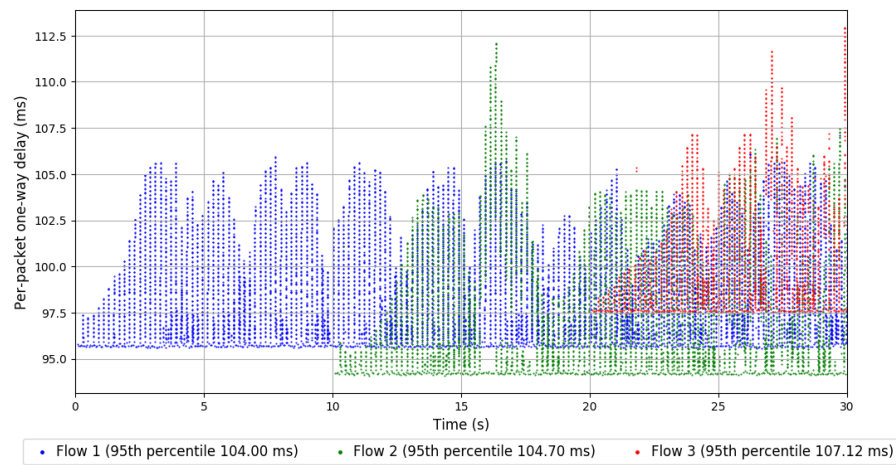
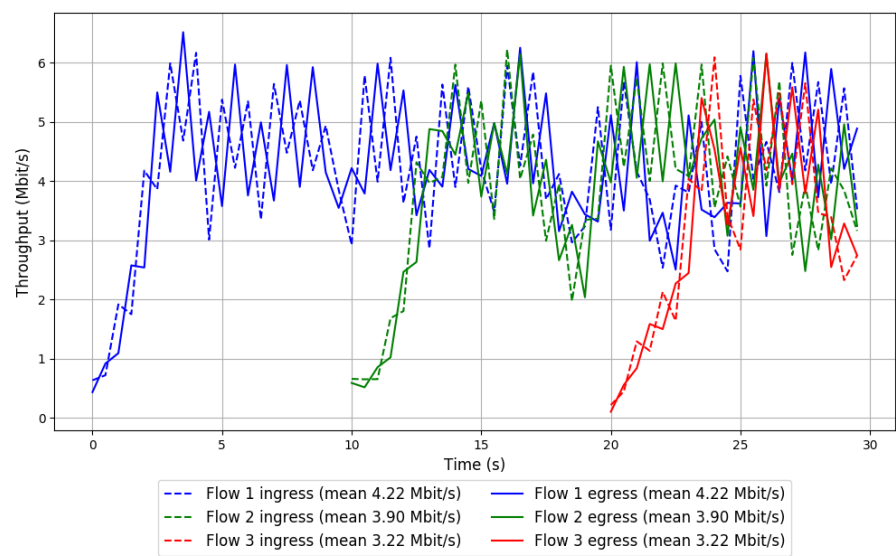


Run 4: Statistics of Sprout

Start at: 2018-02-04 00:06:52
End at: 2018-02-04 00:07:22
Local clock offset: 0.138 ms
Remote clock offset: -3.145 ms

```
# Below is generated by plot.py at 2018-02-04 03:14:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 104.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 104.005 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 104.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 107.123 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

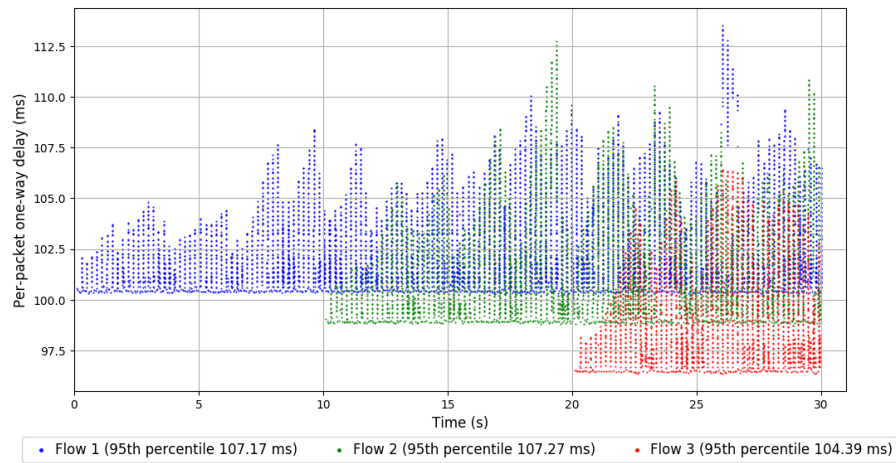
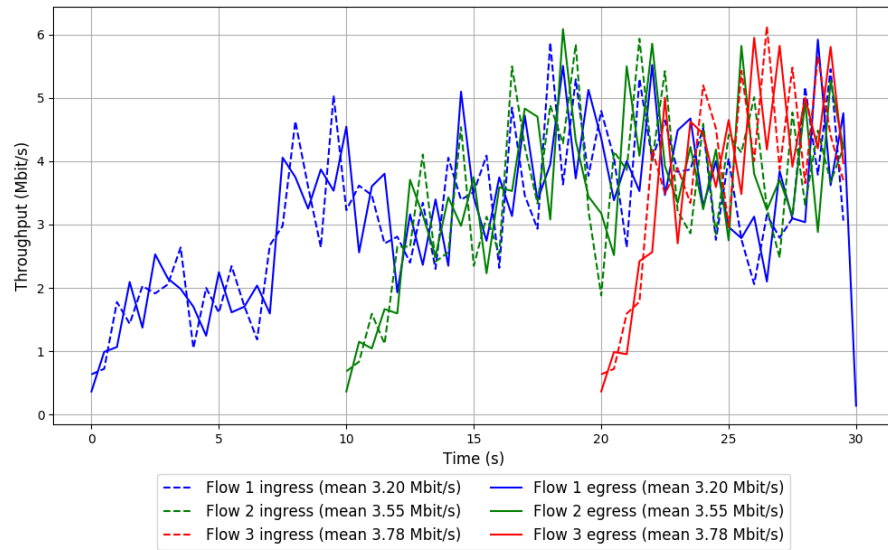


Run 5: Statistics of Sprout

Start at: 2018-02-04 00:29:21
End at: 2018-02-04 00:29:51
Local clock offset: 0.084 ms
Remote clock offset: -3.513 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 106.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 107.169 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 107.273 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 104.387 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

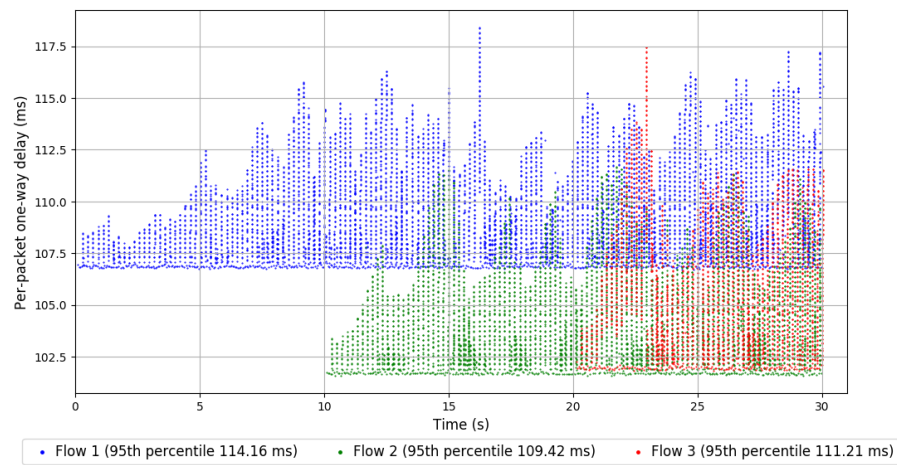
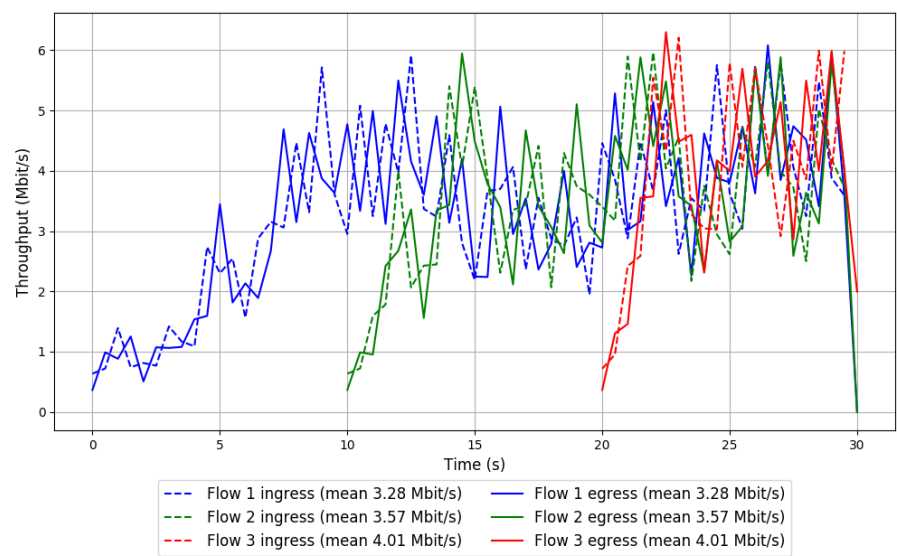


Run 6: Statistics of Sprout

Start at: 2018-02-04 00:51:51
End at: 2018-02-04 00:52:21
Local clock offset: 0.055 ms
Remote clock offset: 3.453 ms

```
# Below is generated by plot.py at 2018-02-04 03:14:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 113.195 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 114.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 109.424 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 111.210 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

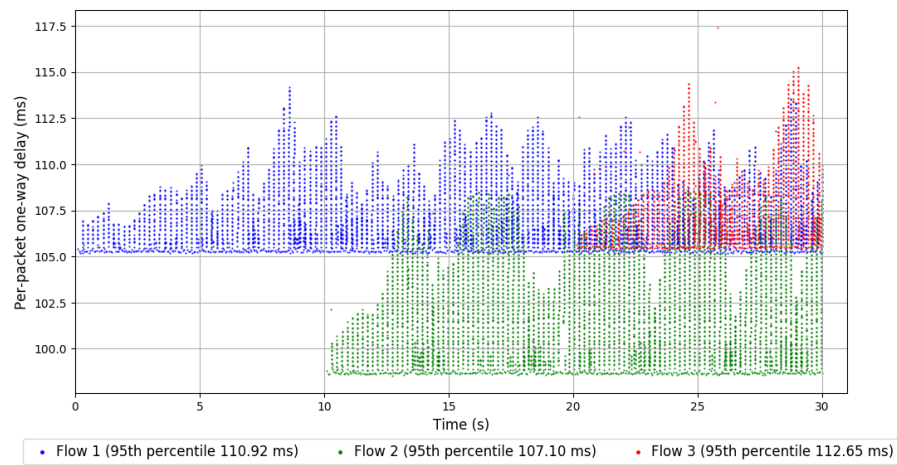
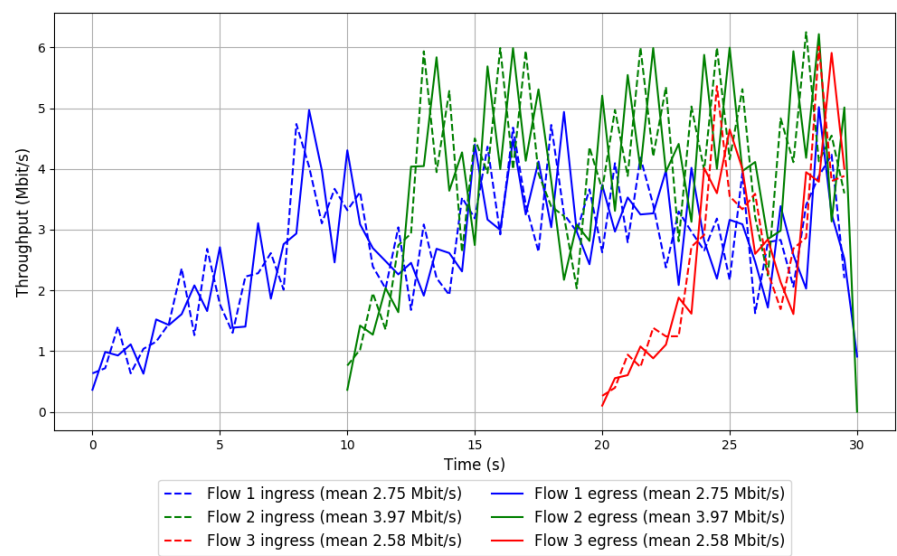


Run 7: Statistics of Sprout

Start at: 2018-02-04 01:14:18
End at: 2018-02-04 01:14:48
Local clock offset: -0.053 ms
Remote clock offset: 2.157 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 110.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 110.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 107.098 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 112.647 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-04 01:36:48

End at: 2018-02-04 01:37:18

Local clock offset: 0.127 ms

Remote clock offset: 4.037 ms

Below is generated by plot.py at 2018-02-04 03:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 112.837 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 112.788 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 110.815 ms

Loss rate: 0.00%

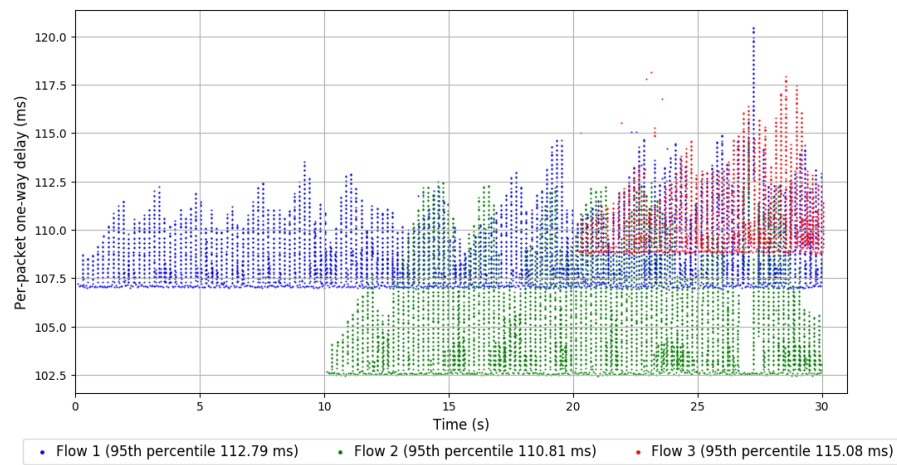
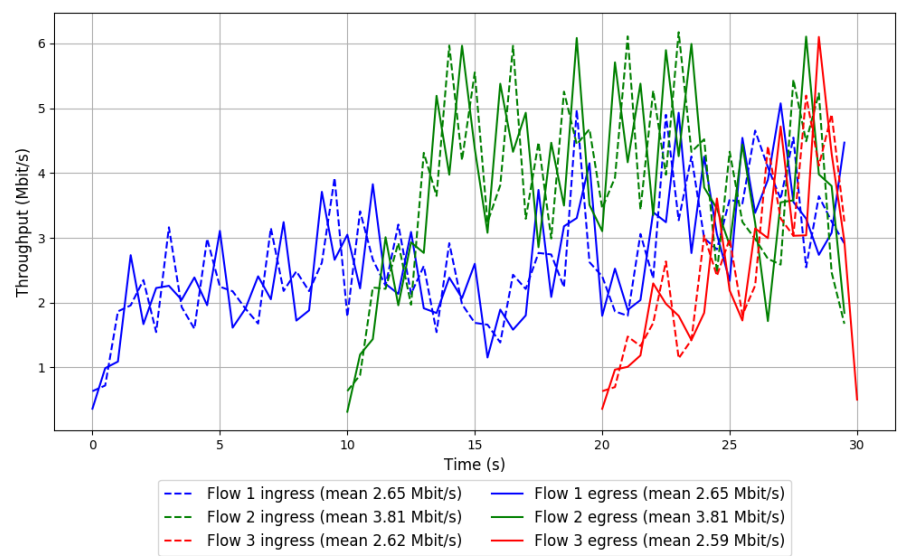
-- Flow 3:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 115.079 ms

Loss rate: 1.12%

Run 8: Report of Sprout — Data Link

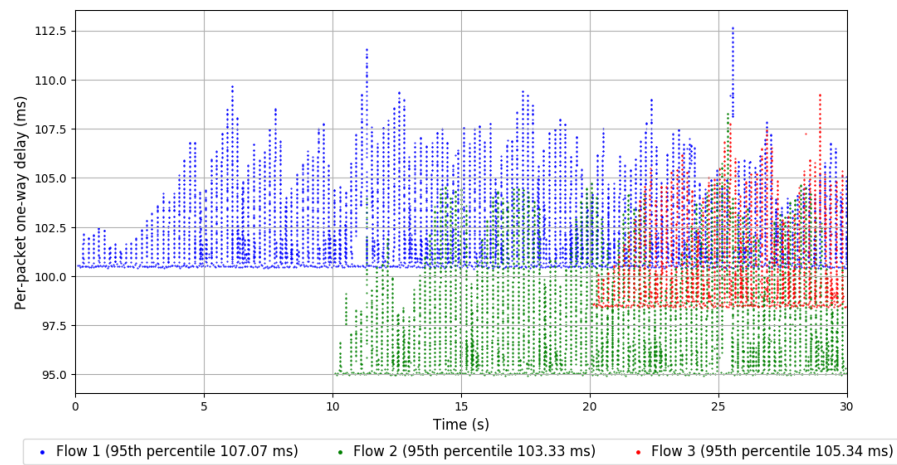
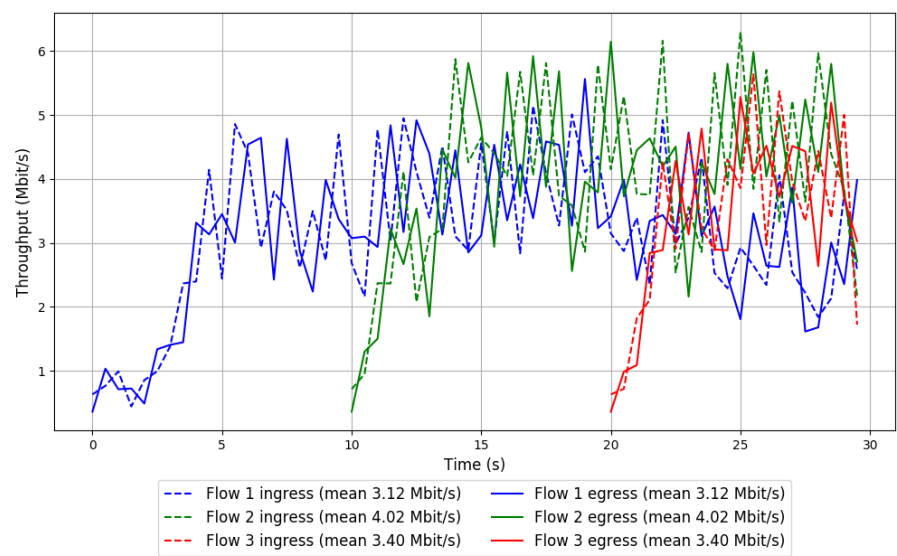


Run 9: Statistics of Sprout

Start at: 2018-02-04 01:59:15
End at: 2018-02-04 01:59:45
Local clock offset: 0.116 ms
Remote clock offset: -2.281 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 106.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 107.068 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 103.335 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 105.345 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

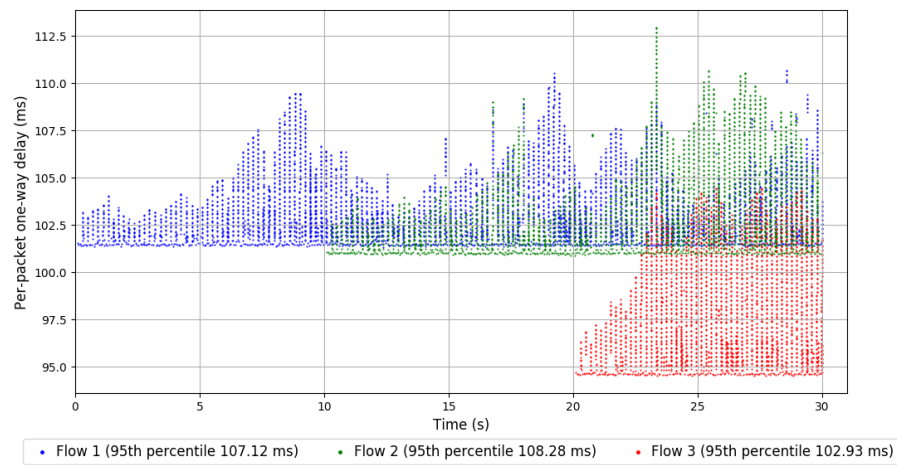
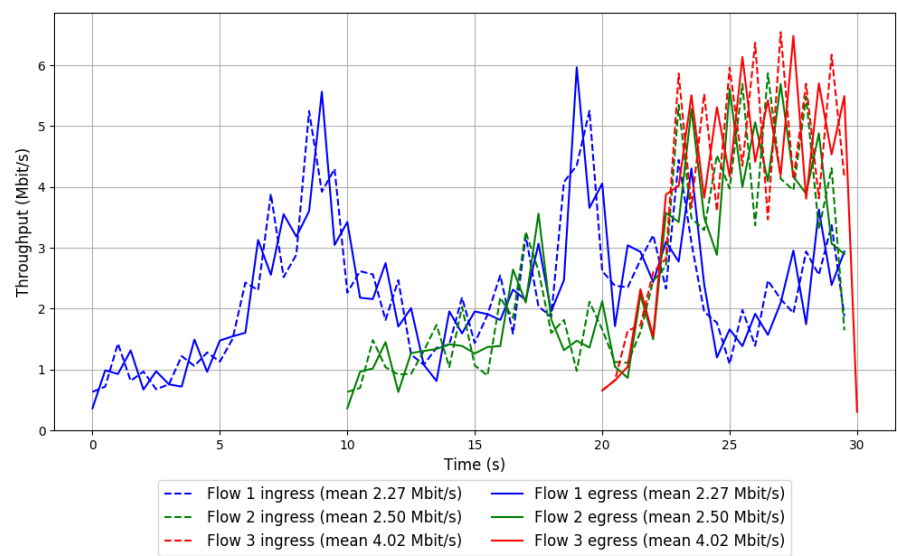


Run 10: Statistics of Sprout

Start at: 2018-02-04 02:21:42
End at: 2018-02-04 02:22:12
Local clock offset: 0.043 ms
Remote clock offset: -1.281 ms

Below is generated by plot.py at 2018-02-04 03:14:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.26 Mbit/s
95th percentile per-packet one-way delay: 107.294 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 107.125 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 108.277 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 102.929 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

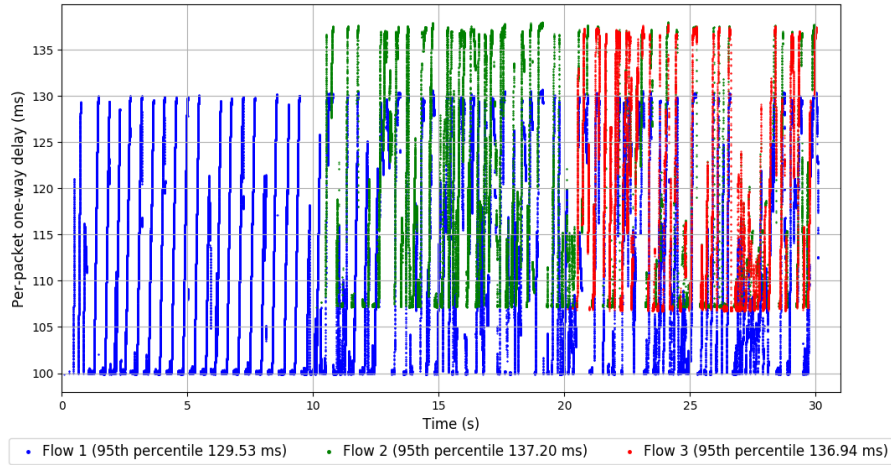
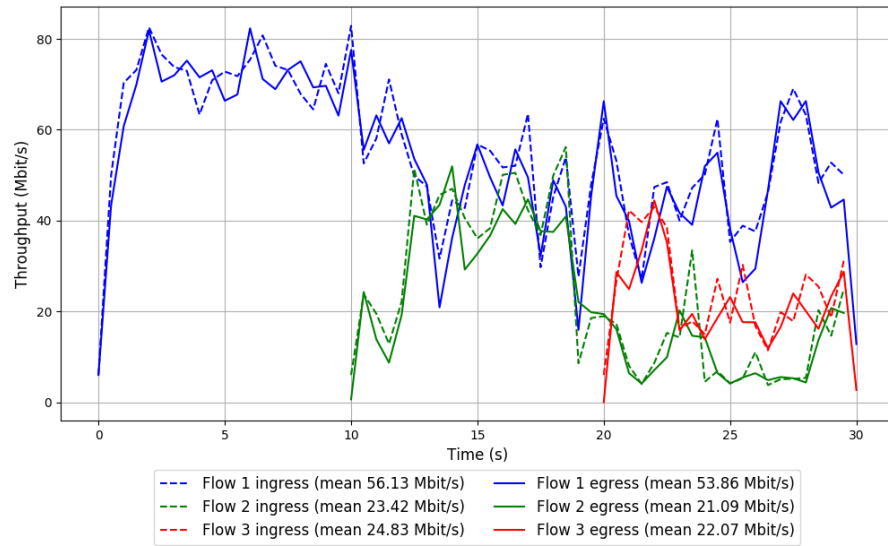


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-03 23:08:27
End at: 2018-02-03 23:08:57
Local clock offset: -0.035 ms
Remote clock offset: 0.736 ms

# Below is generated by plot.py at 2018-02-04 03:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.08 Mbit/s
95th percentile per-packet one-way delay: 135.790 ms
Loss rate: 5.84%
-- Flow 1:
Average throughput: 53.86 Mbit/s
95th percentile per-packet one-way delay: 129.528 ms
Loss rate: 4.01%
-- Flow 2:
Average throughput: 21.09 Mbit/s
95th percentile per-packet one-way delay: 137.204 ms
Loss rate: 9.82%
-- Flow 3:
Average throughput: 22.07 Mbit/s
95th percentile per-packet one-way delay: 136.944 ms
Loss rate: 10.85%
```


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

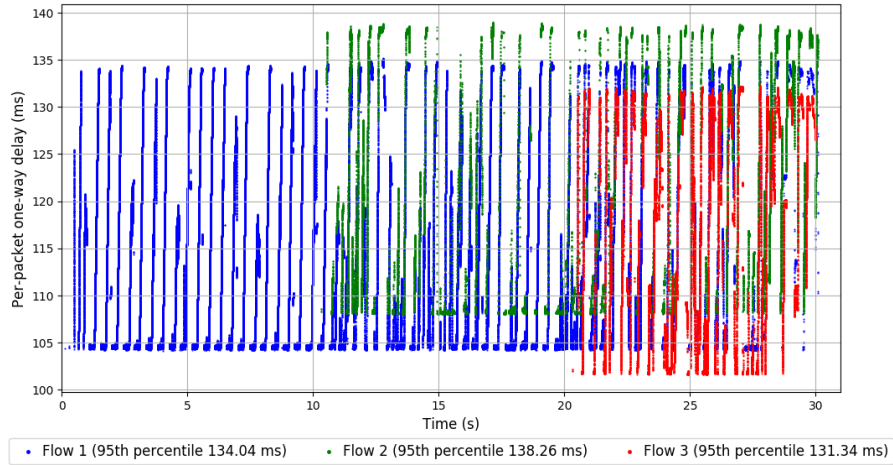
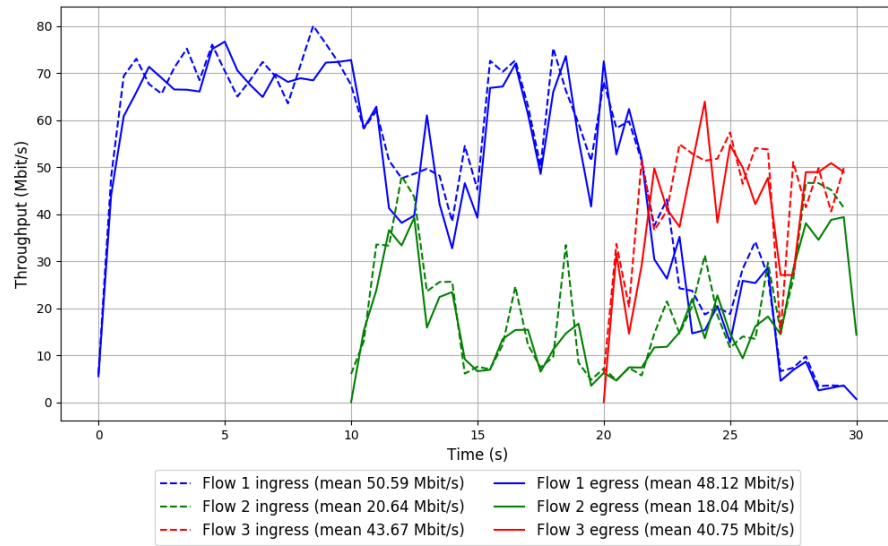


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-03 23:30:57
End at: 2018-02-03 23:31:27
Local clock offset: -0.024 ms
Remote clock offset: 1.42 ms

# Below is generated by plot.py at 2018-02-04 03:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.52 Mbit/s
95th percentile per-packet one-way delay: 134.711 ms
Loss rate: 6.51%
-- Flow 1:
Average throughput: 48.12 Mbit/s
95th percentile per-packet one-way delay: 134.040 ms
Loss rate: 4.86%
-- Flow 2:
Average throughput: 18.04 Mbit/s
95th percentile per-packet one-way delay: 138.262 ms
Loss rate: 12.55%
-- Flow 3:
Average throughput: 40.75 Mbit/s
95th percentile per-packet one-way delay: 131.339 ms
Loss rate: 6.53%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-03 23:53:26

End at: 2018-02-03 23:53:56

Local clock offset: 0.08 ms

Remote clock offset: 1.67 ms

Below is generated by plot.py at 2018-02-04 03:16:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.28 Mbit/s

95th percentile per-packet one-way delay: 135.565 ms

Loss rate: 6.31%

-- Flow 1:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 135.739 ms

Loss rate: 4.81%

-- Flow 2:

Average throughput: 19.53 Mbit/s

95th percentile per-packet one-way delay: 131.529 ms

Loss rate: 10.76%

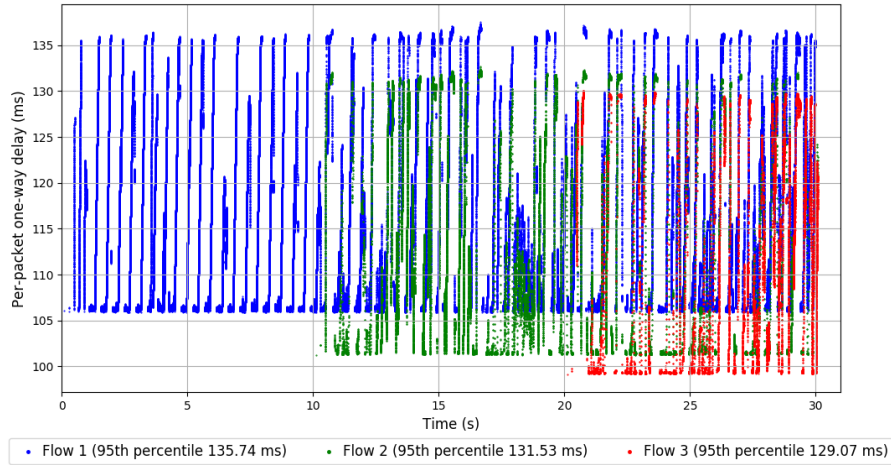
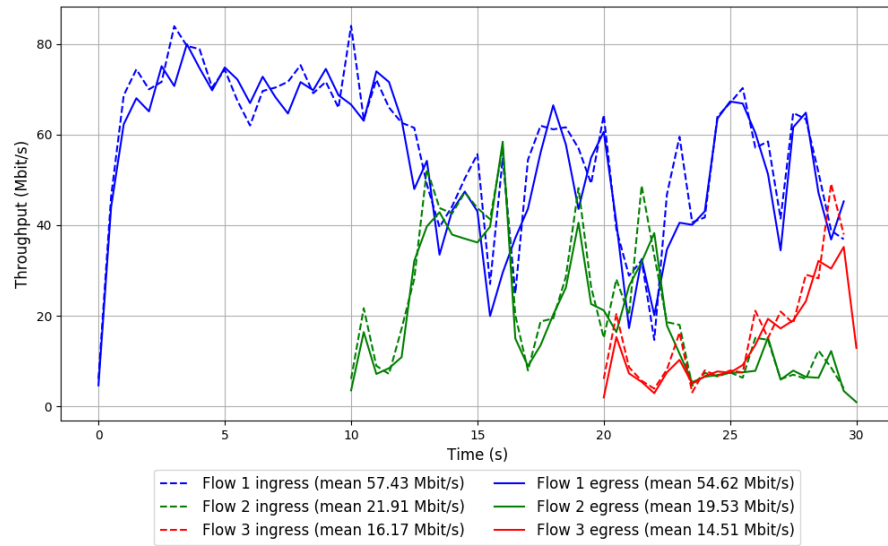
-- Flow 3:

Average throughput: 14.51 Mbit/s

95th percentile per-packet one-way delay: 129.069 ms

Loss rate: 10.13%

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

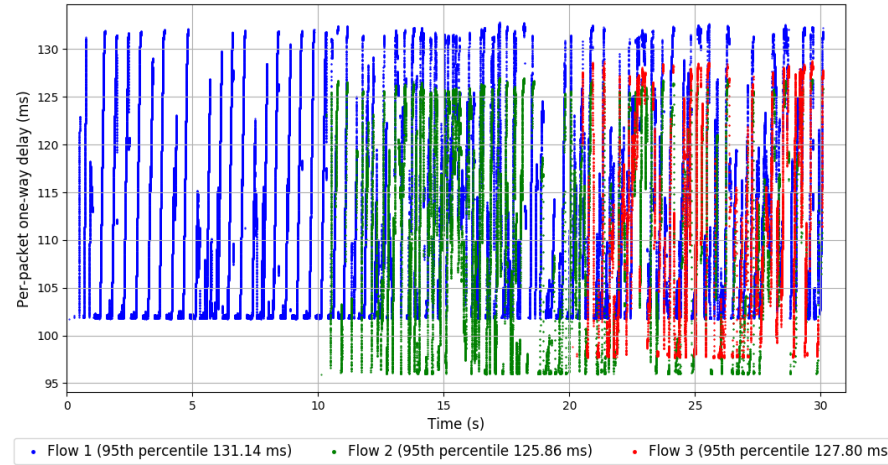
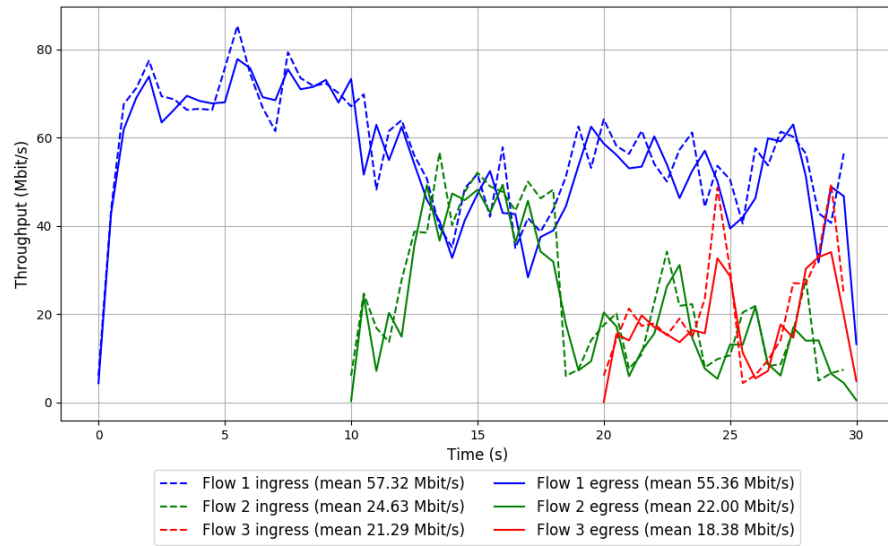


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-04 00:15:58
End at: 2018-02-04 00:16:28
Local clock offset: 0.045 ms
Remote clock offset: -2.822 ms

Below is generated by plot.py at 2018-02-04 03:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.13 Mbit/s
95th percentile per-packet one-way delay: 130.702 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 131.143 ms
Loss rate: 3.32%
-- Flow 2:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 125.863 ms
Loss rate: 10.56%
-- Flow 3:
Average throughput: 18.38 Mbit/s
95th percentile per-packet one-way delay: 127.799 ms
Loss rate: 13.39%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-04 00:38:27

End at: 2018-02-04 00:38:57

Local clock offset: -0.01 ms

Remote clock offset: 2.405 ms

Below is generated by plot.py at 2018-02-04 03:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 135.774 ms

Loss rate: 5.24%

-- Flow 1:

Average throughput: 40.83 Mbit/s

95th percentile per-packet one-way delay: 135.590 ms

Loss rate: 3.43%

-- Flow 2:

Average throughput: 19.51 Mbit/s

95th percentile per-packet one-way delay: 134.691 ms

Loss rate: 8.63%

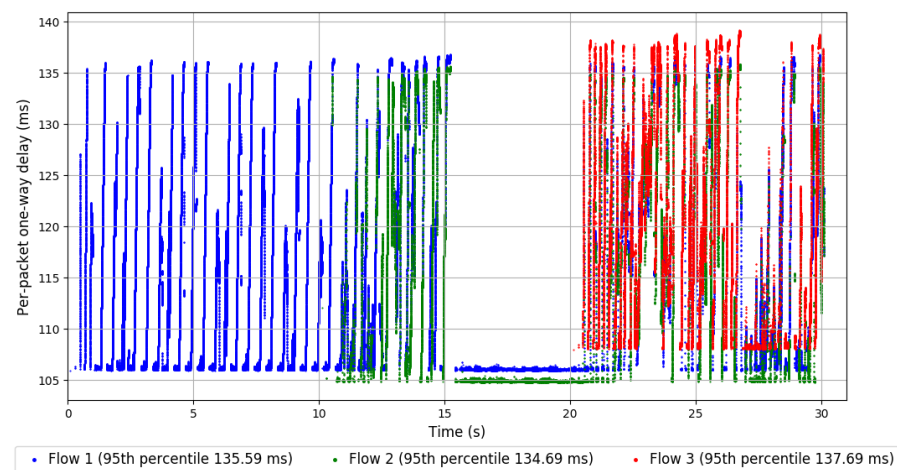
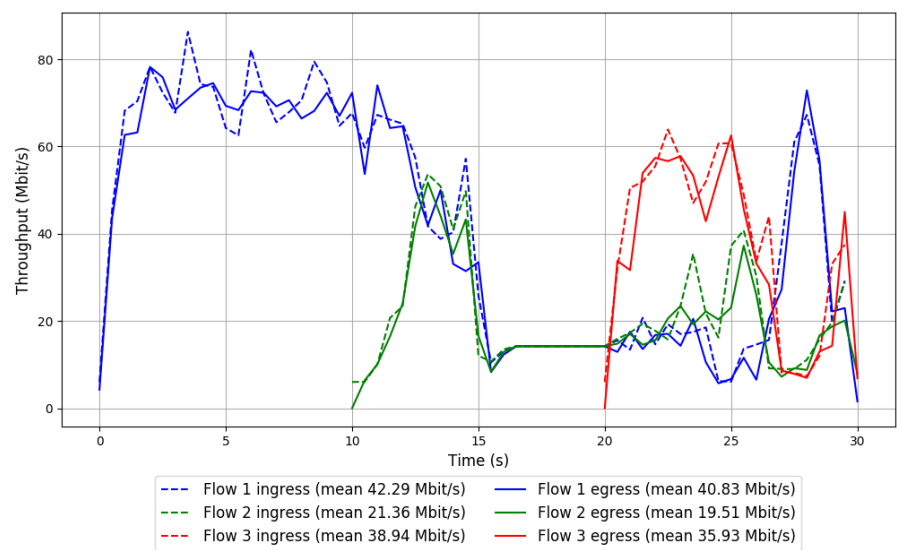
-- Flow 3:

Average throughput: 35.93 Mbit/s

95th percentile per-packet one-way delay: 137.691 ms

Loss rate: 7.45%

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

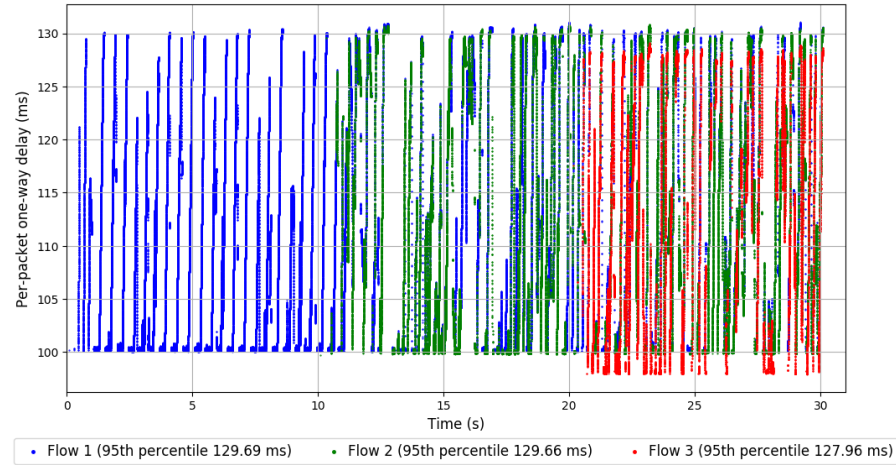
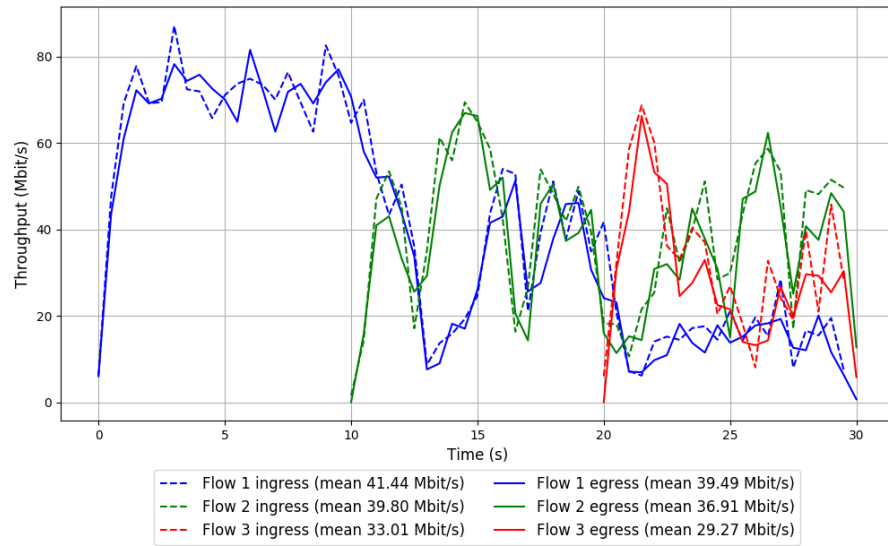


Run 6: Statistics of TaoVA-100x

Start at: 2018-02-04 01:00:56
End at: 2018-02-04 01:01:26
Local clock offset: -0.025 ms
Remote clock offset: -1.965 ms

Below is generated by plot.py at 2018-02-04 03:16:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.78 Mbit/s
95th percentile per-packet one-way delay: 129.587 ms
Loss rate: 6.39%
-- Flow 1:
Average throughput: 39.49 Mbit/s
95th percentile per-packet one-way delay: 129.690 ms
Loss rate: 4.64%
-- Flow 2:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 129.657 ms
Loss rate: 7.11%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 127.960 ms
Loss rate: 11.25%

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

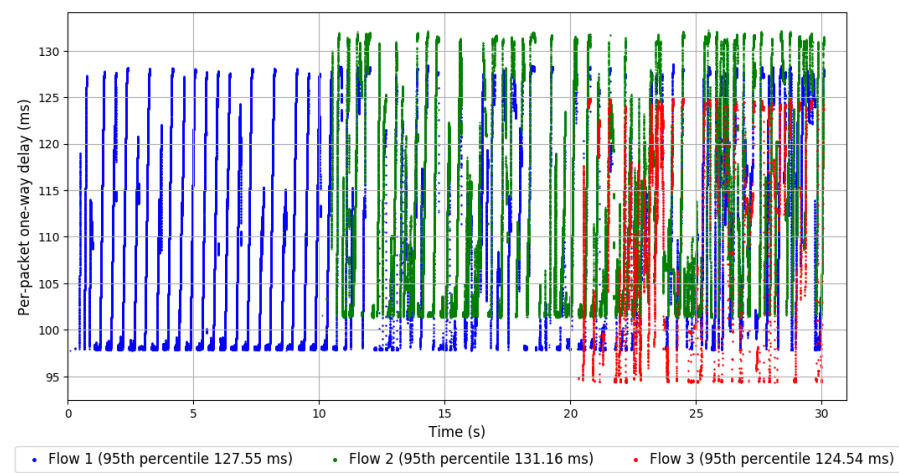
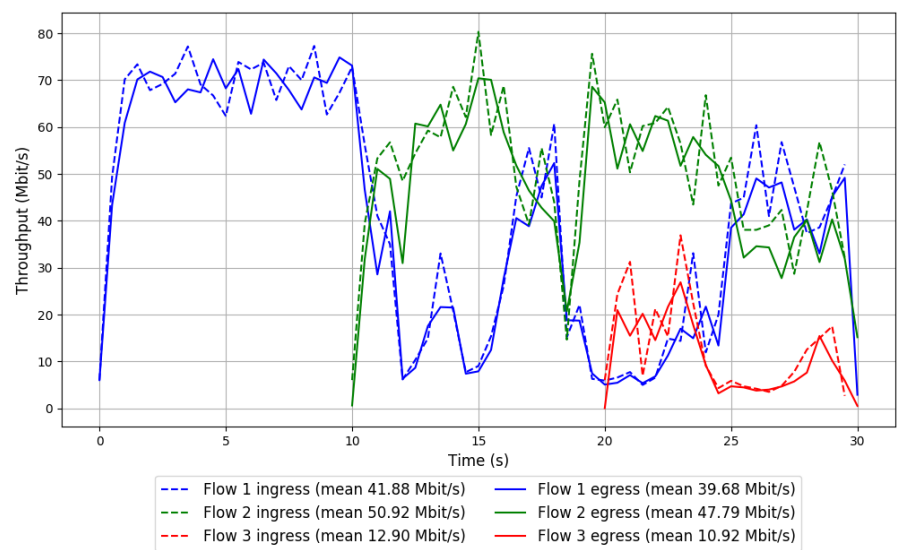


Run 7: Statistics of TaoVA-100x

Start at: 2018-02-04 01:23:24
End at: 2018-02-04 01:23:54
Local clock offset: 0.093 ms
Remote clock offset: -1.842 ms

Below is generated by plot.py at 2018-02-04 03:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.12 Mbit/s
95th percentile per-packet one-way delay: 129.653 ms
Loss rate: 6.07%
-- Flow 1:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 127.550 ms
Loss rate: 5.17%
-- Flow 2:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 131.163 ms
Loss rate: 6.02%
-- Flow 3:
Average throughput: 10.92 Mbit/s
95th percentile per-packet one-way delay: 124.537 ms
Loss rate: 15.34%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-04 01:45:52

End at: 2018-02-04 01:46:22

Local clock offset: 0.14 ms

Remote clock offset: 3.184 ms

Below is generated by plot.py at 2018-02-04 03:16:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.59 Mbit/s

95th percentile per-packet one-way delay: 130.705 ms

Loss rate: 5.77%

-- Flow 1:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 130.268 ms

Loss rate: 4.04%

-- Flow 2:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 132.445 ms

Loss rate: 10.27%

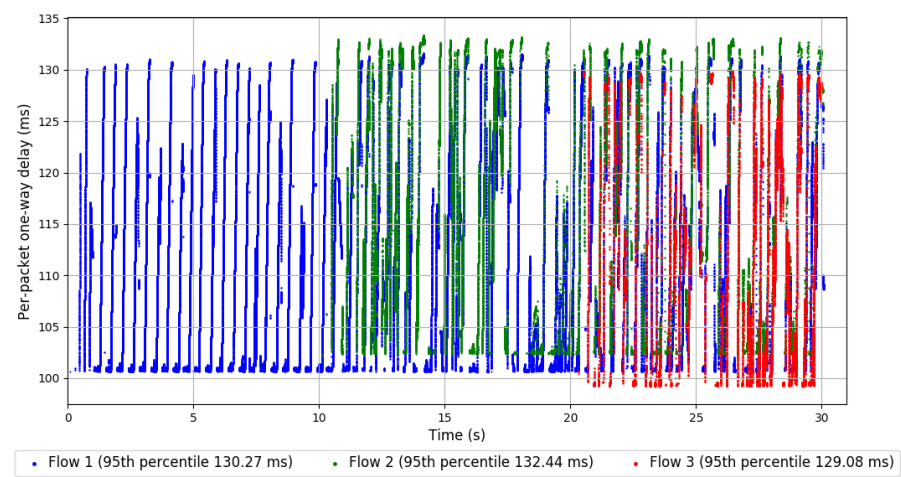
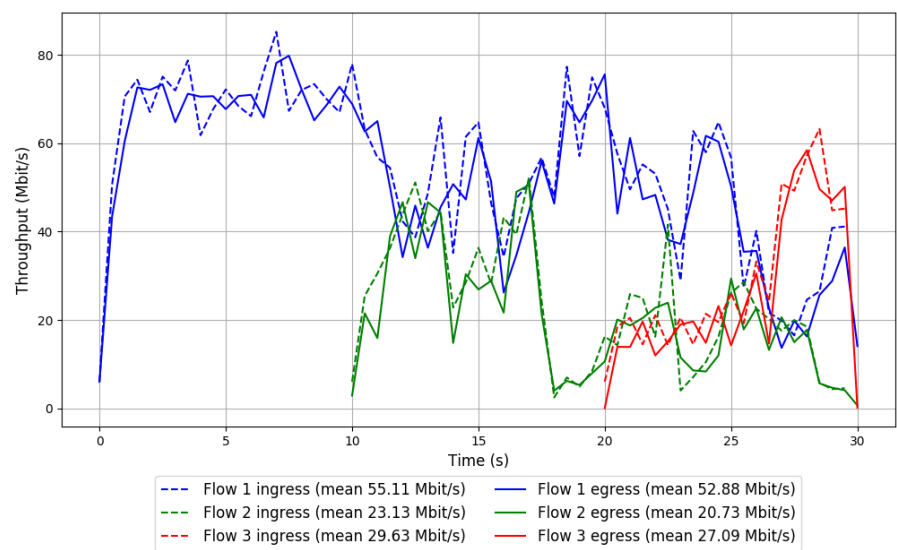
-- Flow 3:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 129.077 ms

Loss rate: 8.44%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-04 02:08:20

End at: 2018-02-04 02:08:50

Local clock offset: 0.0 ms

Remote clock offset: 4.205 ms

Below is generated by plot.py at 2018-02-04 03:18:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.25 Mbit/s

95th percentile per-packet one-way delay: 131.499 ms

Loss rate: 5.96%

-- Flow 1:

Average throughput: 52.31 Mbit/s

95th percentile per-packet one-way delay: 131.772 ms

Loss rate: 3.90%

-- Flow 2:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 130.481 ms

Loss rate: 9.37%

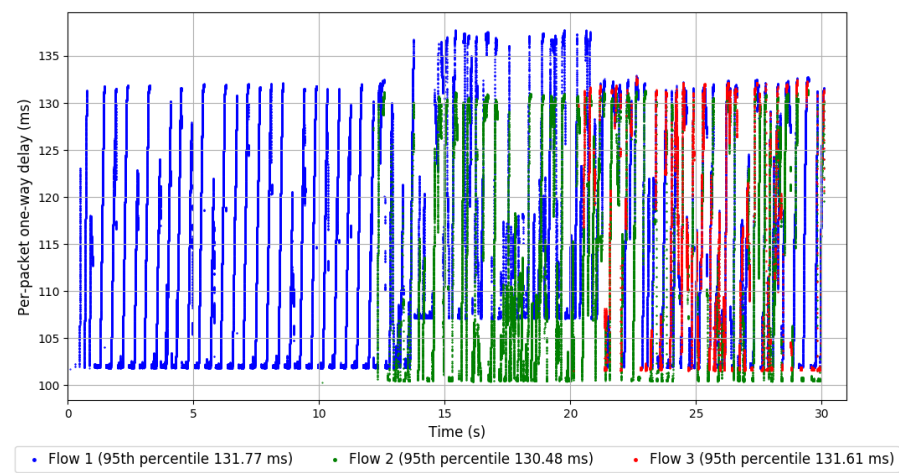
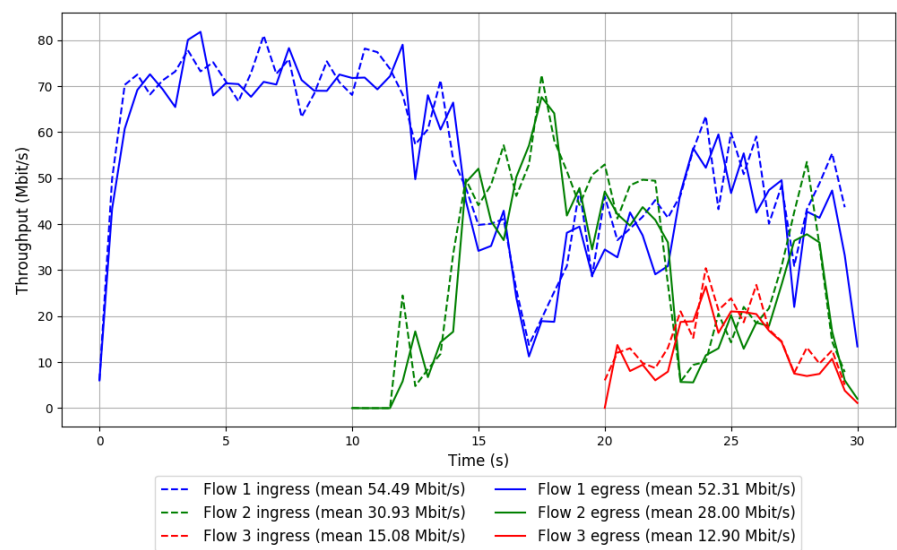
-- Flow 3:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 131.612 ms

Loss rate: 14.33%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-04 02:30:48

End at: 2018-02-04 02:31:18

Local clock offset: -0.025 ms

Remote clock offset: 4.346 ms

Below is generated by plot.py at 2018-02-04 03:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.55 Mbit/s

95th percentile per-packet one-way delay: 130.935 ms

Loss rate: 7.03%

-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 128.664 ms

Loss rate: 5.54%

-- Flow 2:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 131.646 ms

Loss rate: 9.26%

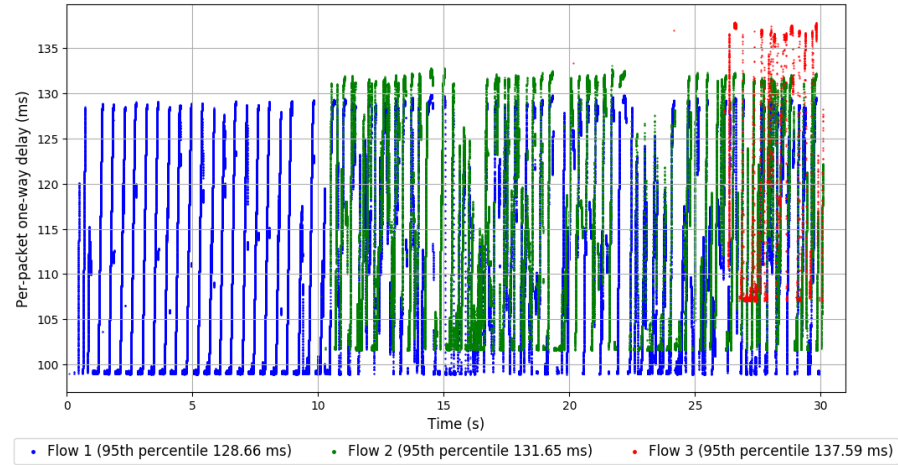
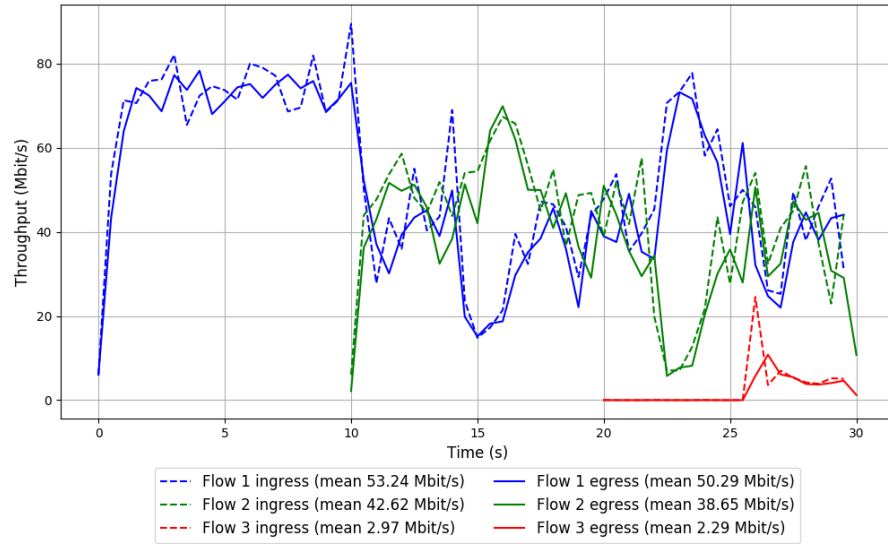
-- Flow 3:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 137.590 ms

Loss rate: 22.77%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-03 23:01:52

End at: 2018-02-03 23:02:22

Local clock offset: -0.009 ms

Remote clock offset: 2.424 ms

Below is generated by plot.py at 2018-02-04 03:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 118.097 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 19.24 Mbit/s

95th percentile per-packet one-way delay: 115.435 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 117.720 ms

Loss rate: 0.67%

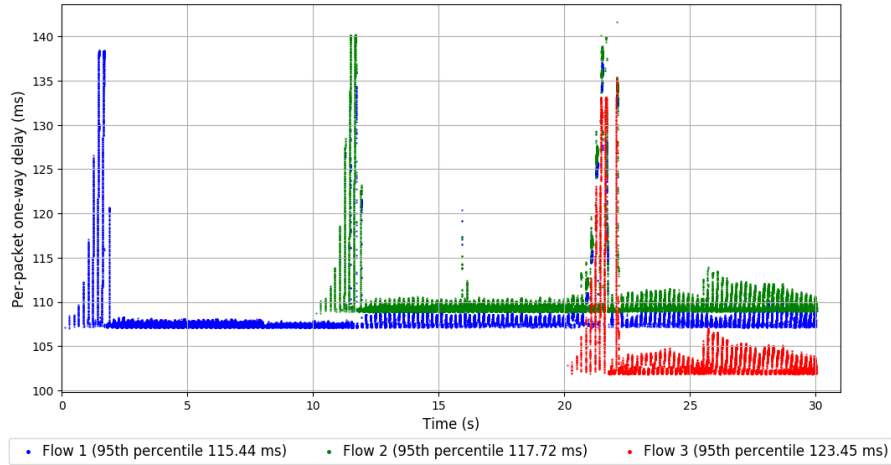
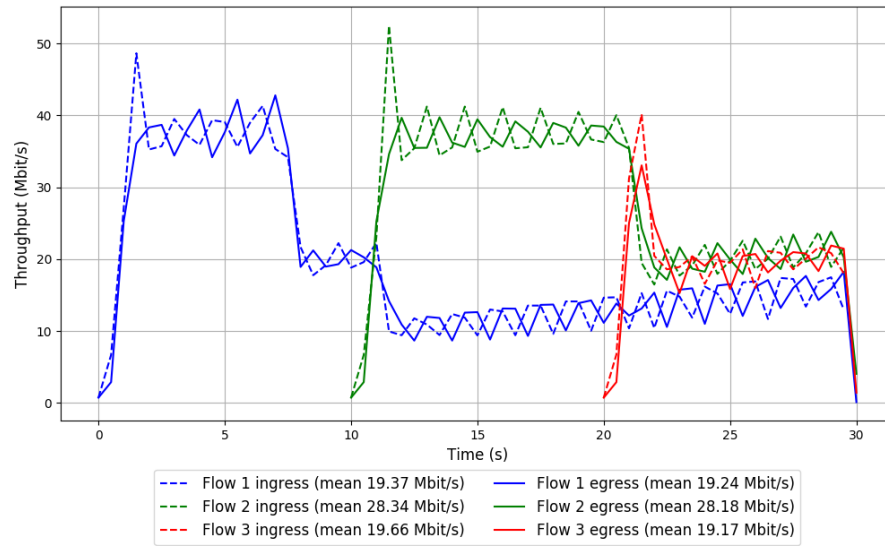
-- Flow 3:

Average throughput: 19.17 Mbit/s

95th percentile per-packet one-way delay: 123.451 ms

Loss rate: 2.48%

Run 1: Report of TCP Vegas — Data Link

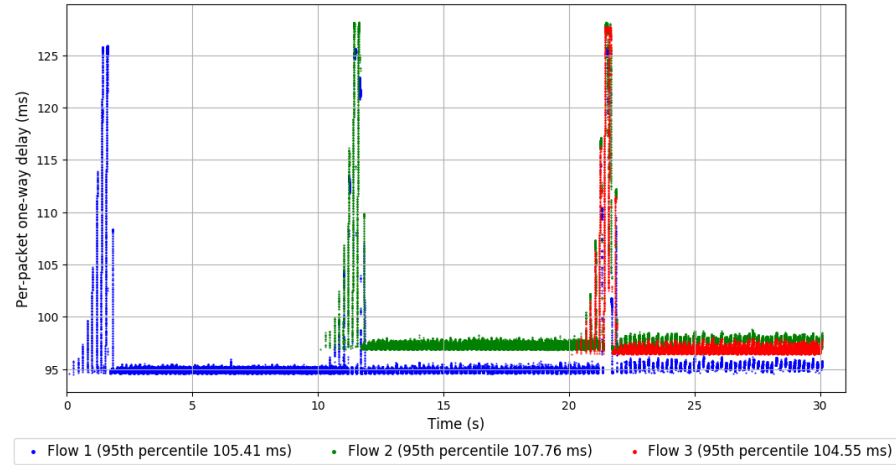
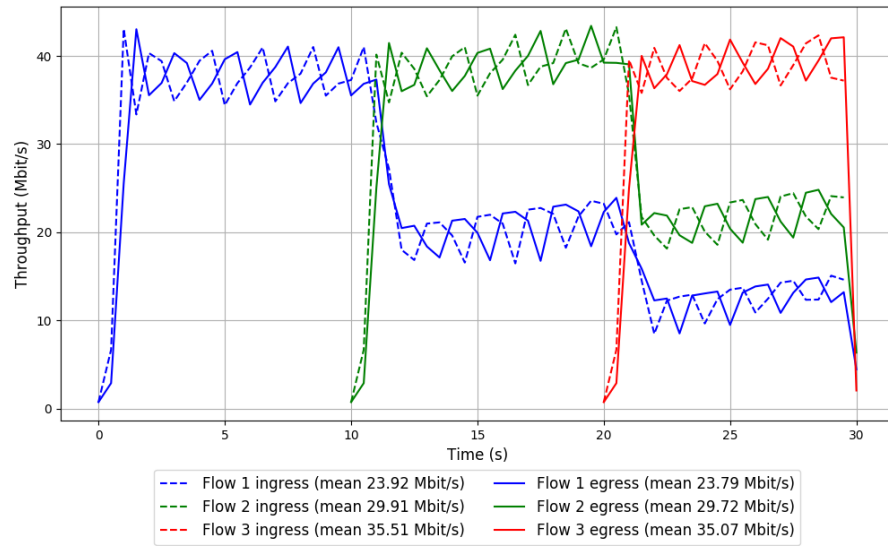


Run 2: Statistics of TCP Vegas

Start at: 2018-02-03 23:24:21
End at: 2018-02-03 23:24:51
Local clock offset: -0.115 ms
Remote clock offset: -3.478 ms

Below is generated by plot.py at 2018-02-04 03:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.22 Mbit/s
95th percentile per-packet one-way delay: 106.539 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 105.409 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 29.72 Mbit/s
95th percentile per-packet one-way delay: 107.762 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 104.545 ms
Loss rate: 1.21%

Run 2: Report of TCP Vegas — Data Link

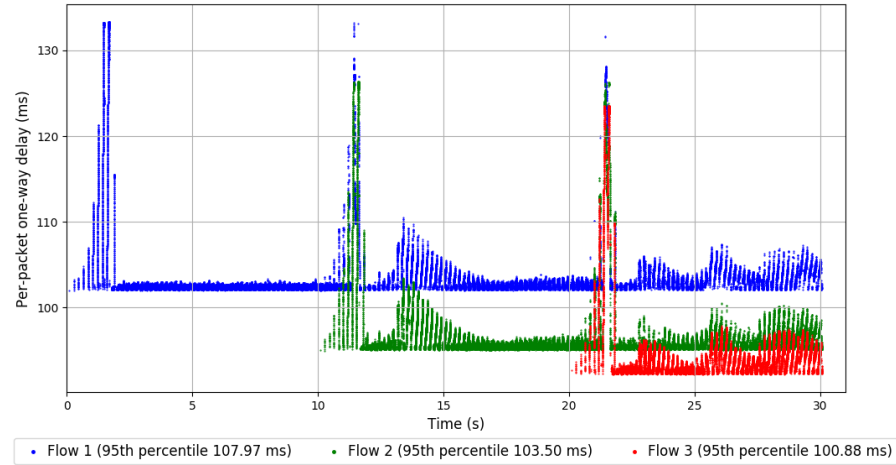
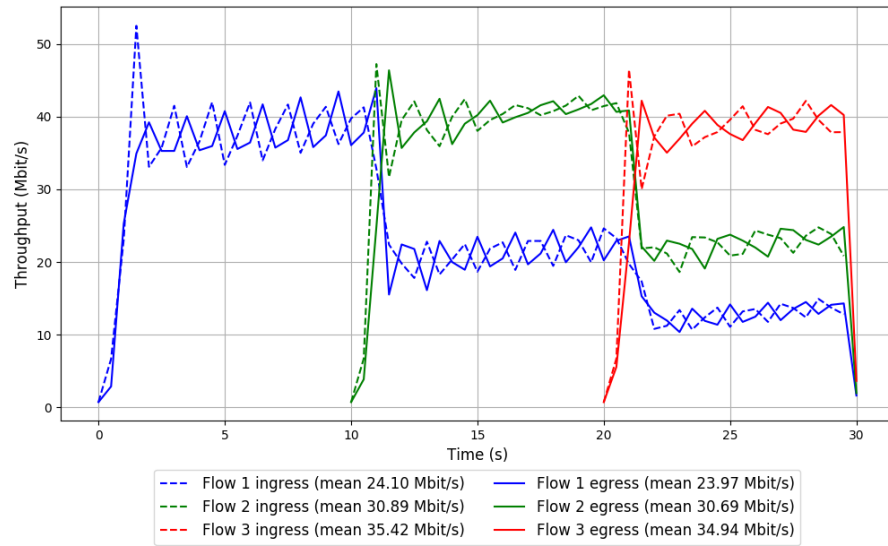


Run 3: Statistics of TCP Vegas

Start at: 2018-02-03 23:46:51
End at: 2018-02-03 23:47:21
Local clock offset: -0.01 ms
Remote clock offset: -4.075 ms

Below is generated by plot.py at 2018-02-04 03:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 106.540 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 107.974 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 103.495 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 34.94 Mbit/s
95th percentile per-packet one-way delay: 100.883 ms
Loss rate: 1.37%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-04 00:09:22

End at: 2018-02-04 00:09:52

Local clock offset: 0.079 ms

Remote clock offset: 0.934 ms

Below is generated by plot.py at 2018-02-04 03:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 112.065 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 109.118 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 29.39 Mbit/s

95th percentile per-packet one-way delay: 111.232 ms

Loss rate: 0.68%

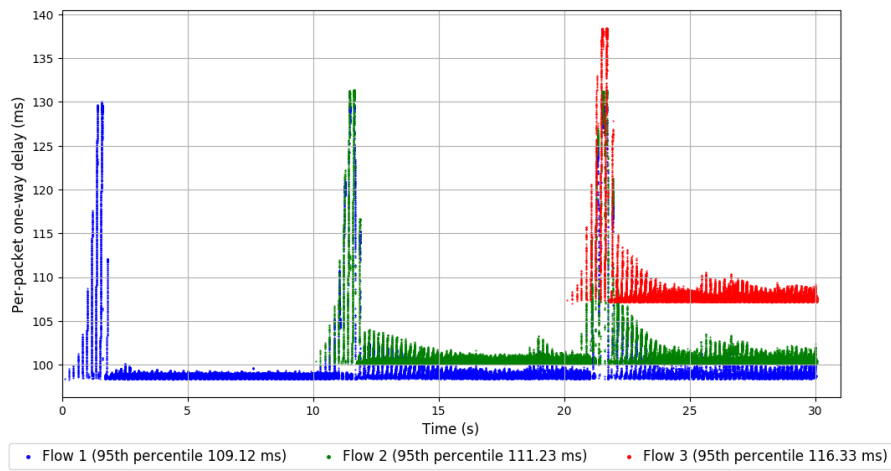
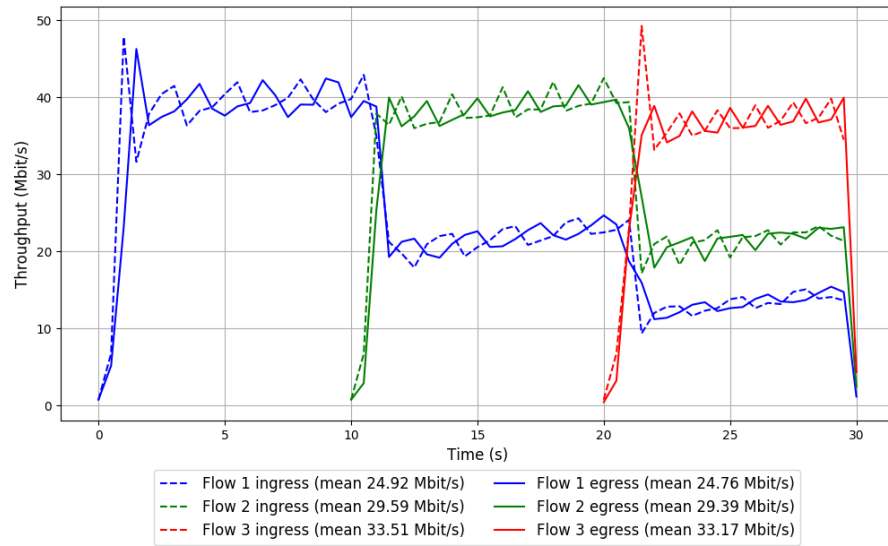
-- Flow 3:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 116.331 ms

Loss rate: 1.05%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-04 00:31:51

End at: 2018-02-04 00:32:21

Local clock offset: 0.069 ms

Remote clock offset: 3.161 ms

Below is generated by plot.py at 2018-02-04 03:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 113.425 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 112.762 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 115.834 ms

Loss rate: 0.71%

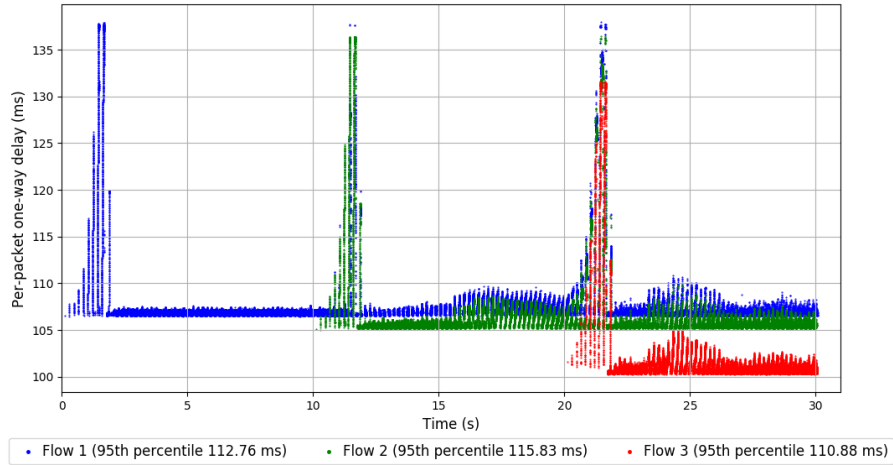
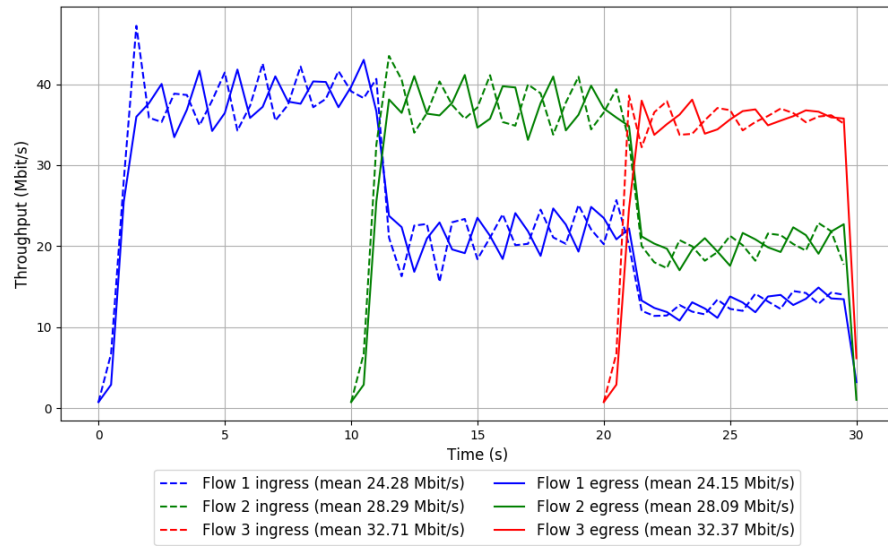
-- Flow 3:

Average throughput: 32.37 Mbit/s

95th percentile per-packet one-way delay: 110.883 ms

Loss rate: 1.06%

Run 5: Report of TCP Vegas — Data Link

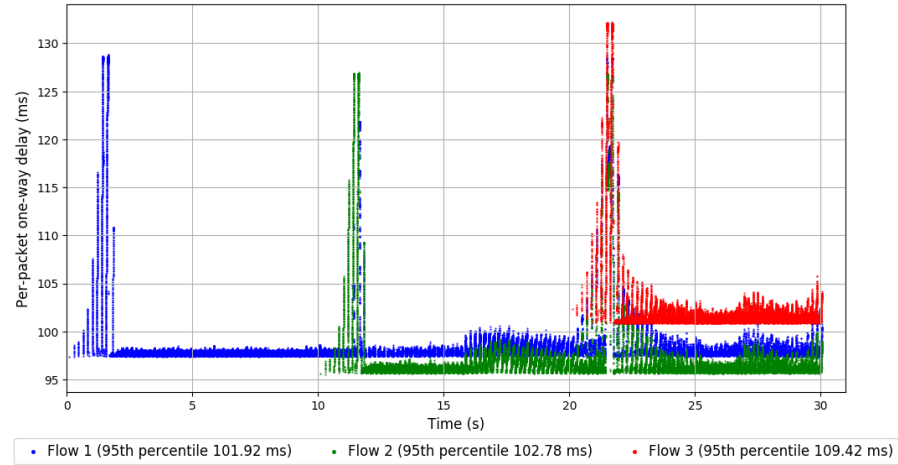
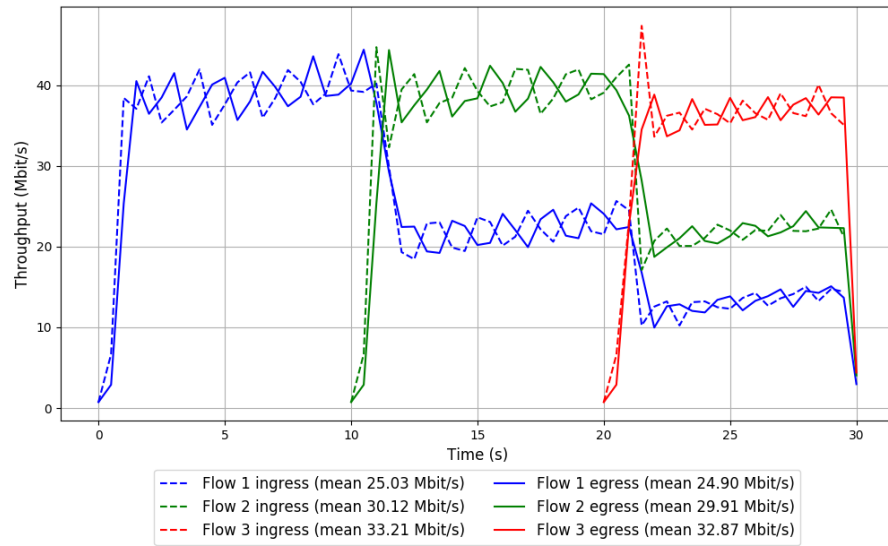


Run 6: Statistics of TCP Vegas

Start at: 2018-02-04 00:54:20
End at: 2018-02-04 00:54:50
Local clock offset: 0.035 ms
Remote clock offset: -2.917 ms

Below is generated by plot.py at 2018-02-04 03:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 104.212 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 101.915 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 29.91 Mbit/s
95th percentile per-packet one-way delay: 102.785 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 109.419 ms
Loss rate: 1.06%

Run 6: Report of TCP Vegas — Data Link

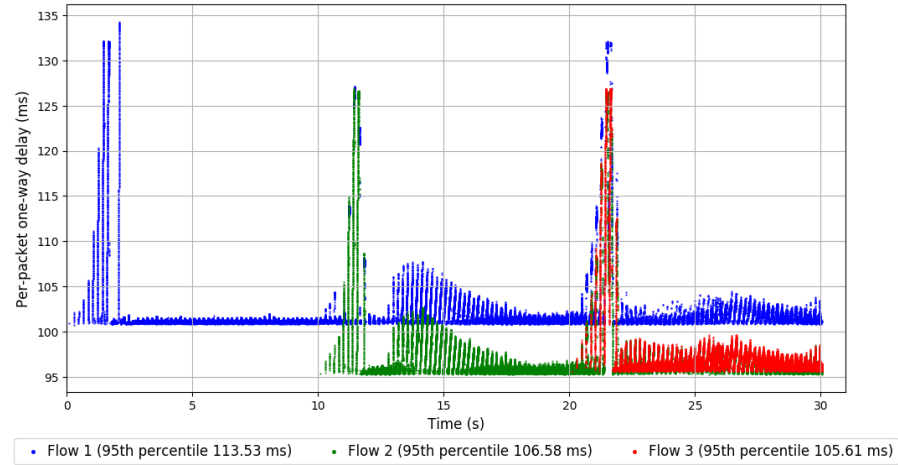
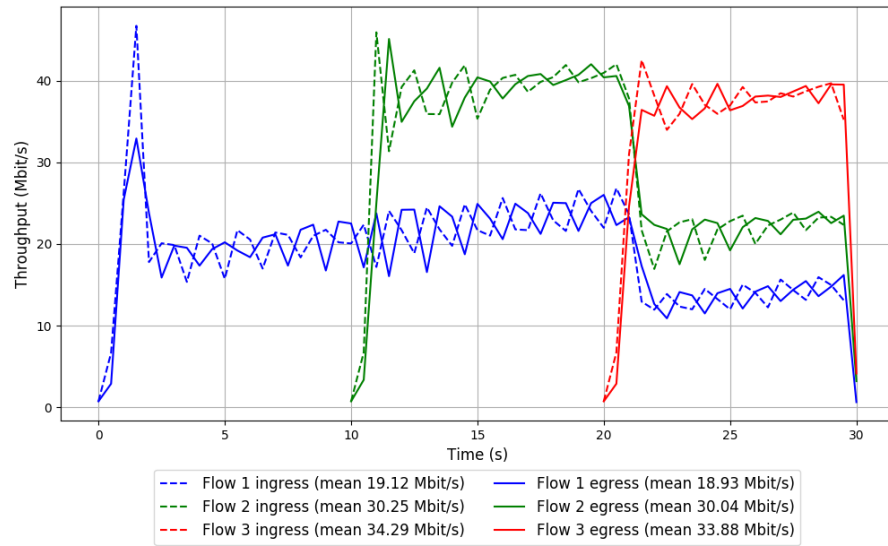


Run 7: Statistics of TCP Vegas

Start at: 2018-02-04 01:16:48
End at: 2018-02-04 01:17:18
Local clock offset: 0.041 ms
Remote clock offset: -2.682 ms

Below is generated by plot.py at 2018-02-04 03:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 109.662 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 113.529 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 106.575 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 105.609 ms
Loss rate: 1.19%

Run 7: Report of TCP Vegas — Data Link

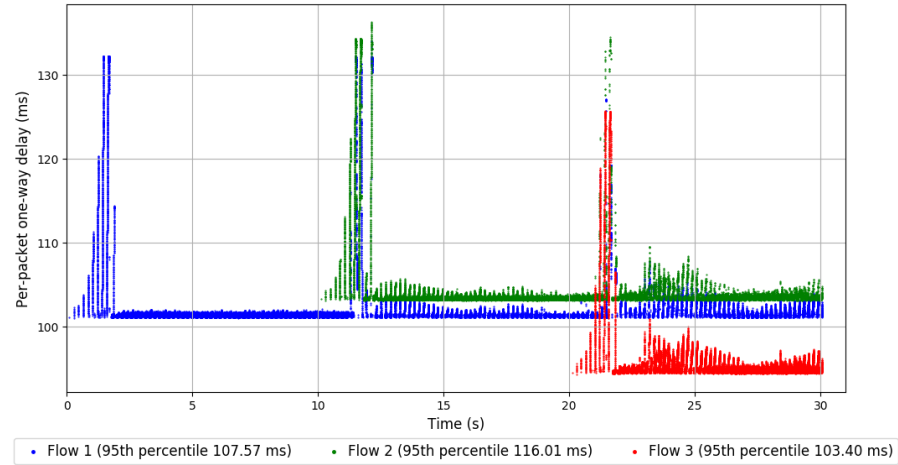
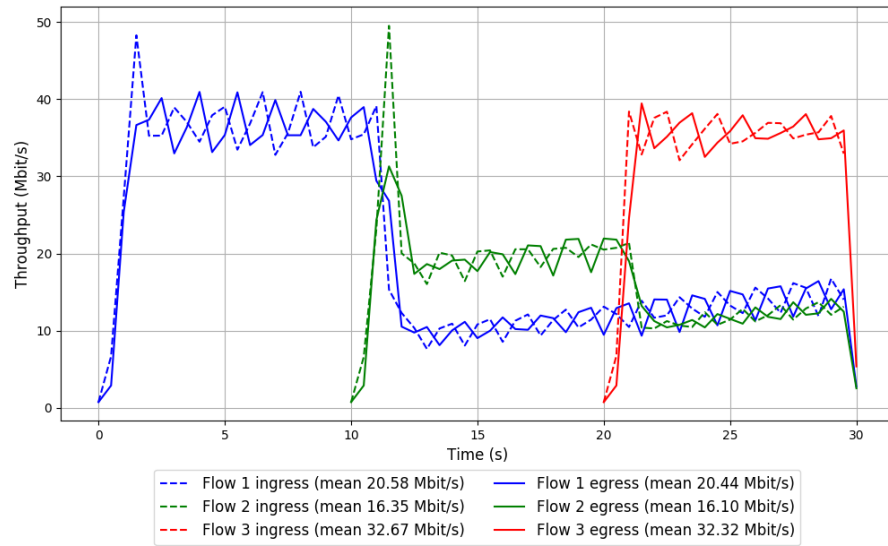


Run 8: Statistics of TCP Vegas

Start at: 2018-02-04 01:39:18
End at: 2018-02-04 01:39:48
Local clock offset: 0.149 ms
Remote clock offset: -1.693 ms

Below is generated by plot.py at 2018-02-04 03:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.89 Mbit/s
95th percentile per-packet one-way delay: 109.515 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 20.44 Mbit/s
95th percentile per-packet one-way delay: 107.568 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 16.10 Mbit/s
95th percentile per-packet one-way delay: 116.006 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 103.398 ms
Loss rate: 1.06%

Run 8: Report of TCP Vegas — Data Link

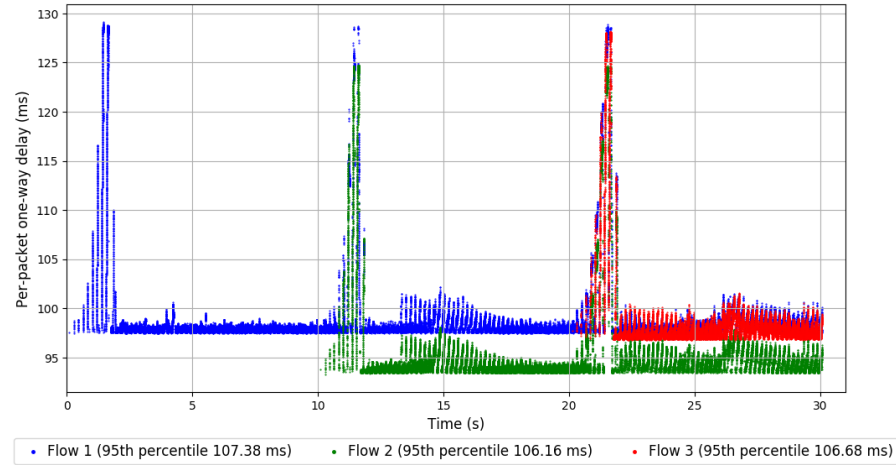
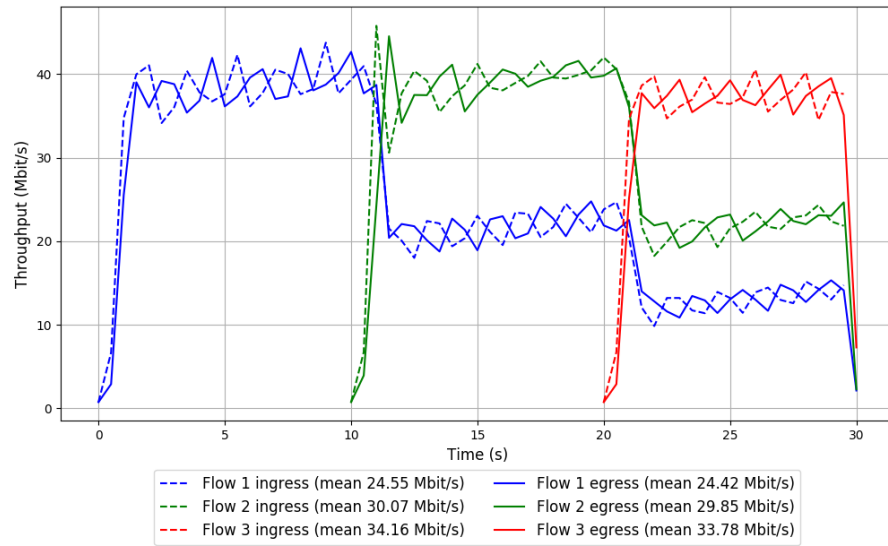


Run 9: Statistics of TCP Vegas

Start at: 2018-02-04 02:01:45
End at: 2018-02-04 02:02:15
Local clock offset: 0.043 ms
Remote clock offset: -2.273 ms

Below is generated by plot.py at 2018-02-04 03:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 106.690 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 107.381 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 106.158 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 33.78 Mbit/s
95th percentile per-packet one-way delay: 106.681 ms
Loss rate: 1.11%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-04 02:24:12

End at: 2018-02-04 02:24:42

Local clock offset: 0.031 ms

Remote clock offset: 2.7 ms

Below is generated by plot.py at 2018-02-04 03:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 109.334 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 106.296 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 110.576 ms

Loss rate: 0.68%

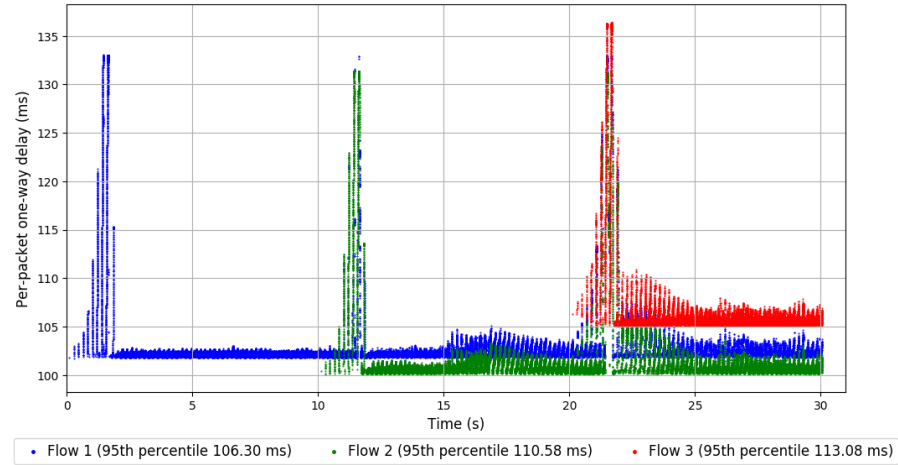
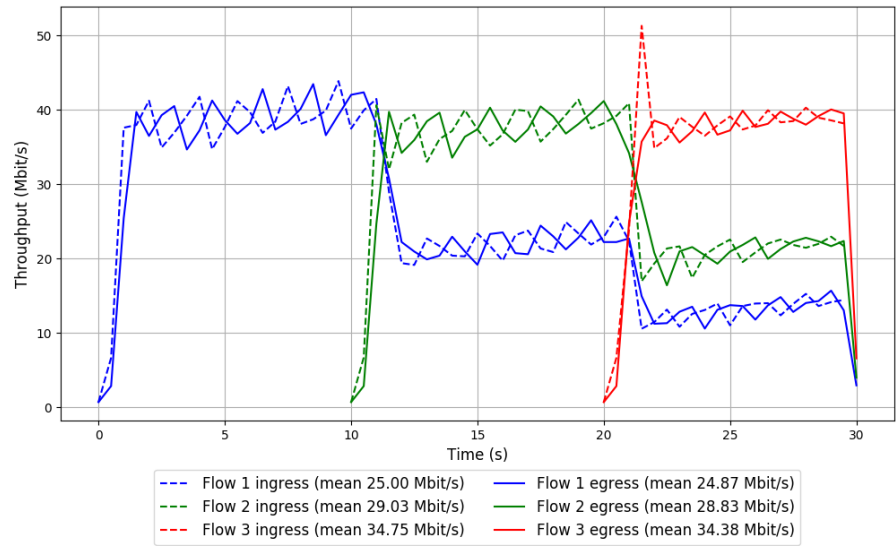
-- Flow 3:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 113.085 ms

Loss rate: 1.07%

Run 10: Report of TCP Vegas — Data Link

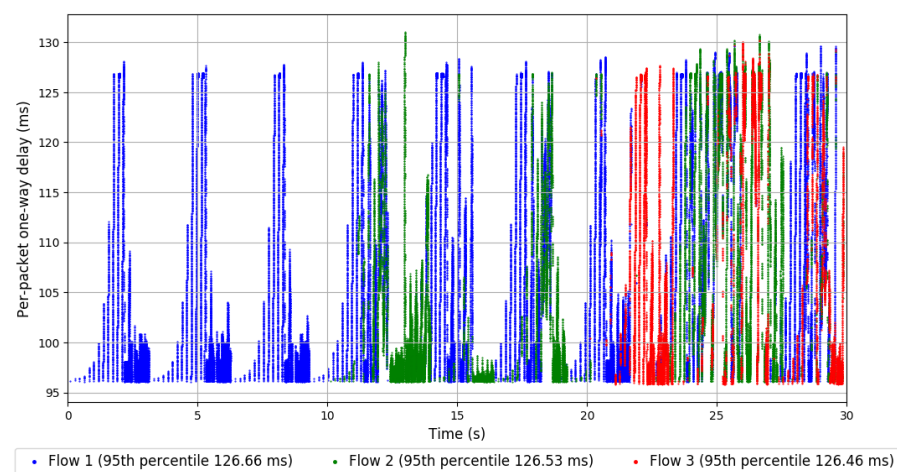
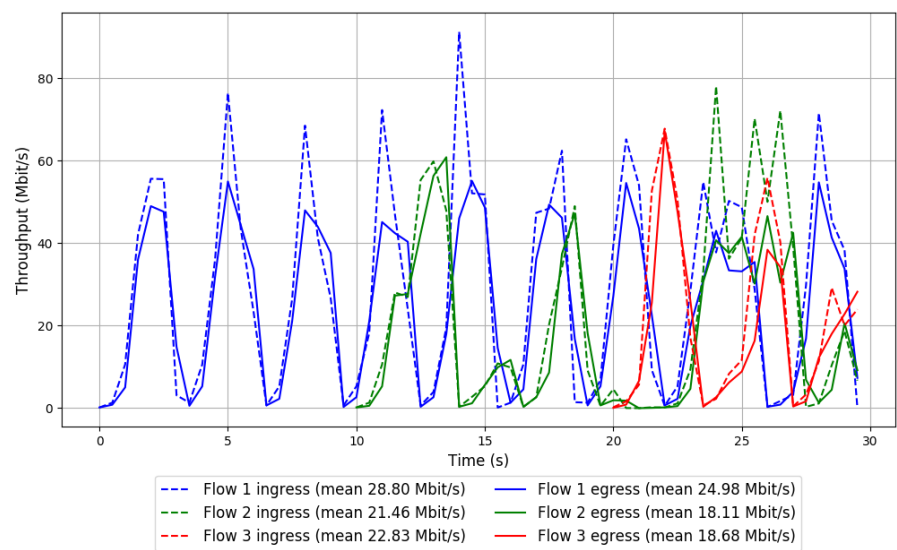


Run 1: Statistics of Verus

Start at: 2018-02-03 23:16:32
End at: 2018-02-03 23:17:02
Local clock offset: -0.093 ms
Remote clock offset: -3.429 ms

Below is generated by plot.py at 2018-02-04 03:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.02 Mbit/s
95th percentile per-packet one-way delay: 126.616 ms
Loss rate: 14.64%
-- Flow 1:
Average throughput: 24.98 Mbit/s
95th percentile per-packet one-way delay: 126.664 ms
Loss rate: 13.27%
-- Flow 2:
Average throughput: 18.11 Mbit/s
95th percentile per-packet one-way delay: 126.528 ms
Loss rate: 15.57%
-- Flow 3:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 126.464 ms
Loss rate: 18.14%

Run 1: Report of Verus — Data Link

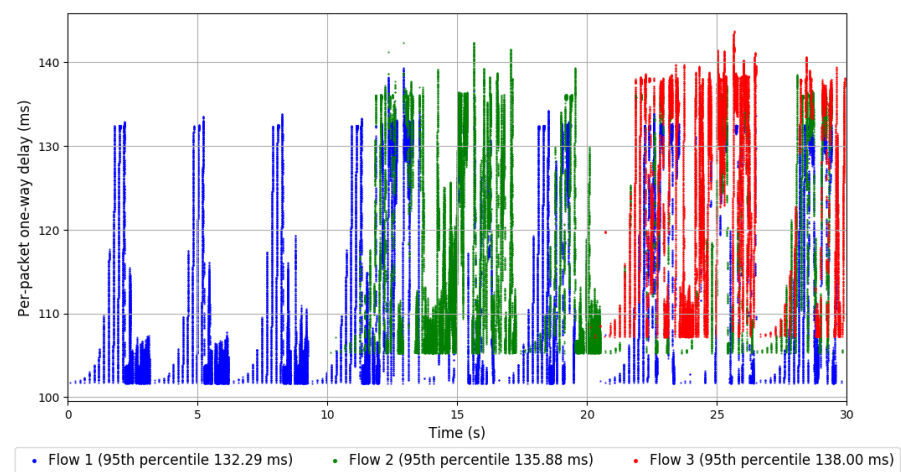
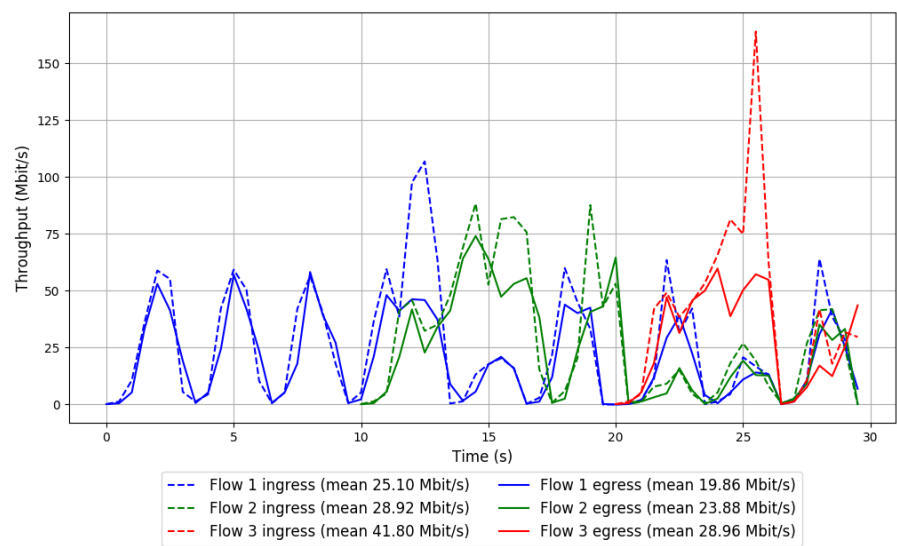


Run 2: Statistics of Verus

Start at: 2018-02-03 23:39:01
End at: 2018-02-03 23:39:31
Local clock offset: -0.035 ms
Remote clock offset: 0.67 ms

Below is generated by plot.py at 2018-02-04 03:18:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.08 Mbit/s
95th percentile per-packet one-way delay: 136.077 ms
Loss rate: 22.03%
-- Flow 1:
Average throughput: 19.86 Mbit/s
95th percentile per-packet one-way delay: 132.290 ms
Loss rate: 20.90%
-- Flow 2:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 135.880 ms
Loss rate: 17.42%
-- Flow 3:
Average throughput: 28.96 Mbit/s
95th percentile per-packet one-way delay: 138.001 ms
Loss rate: 30.50%

Run 2: Report of Verus — Data Link

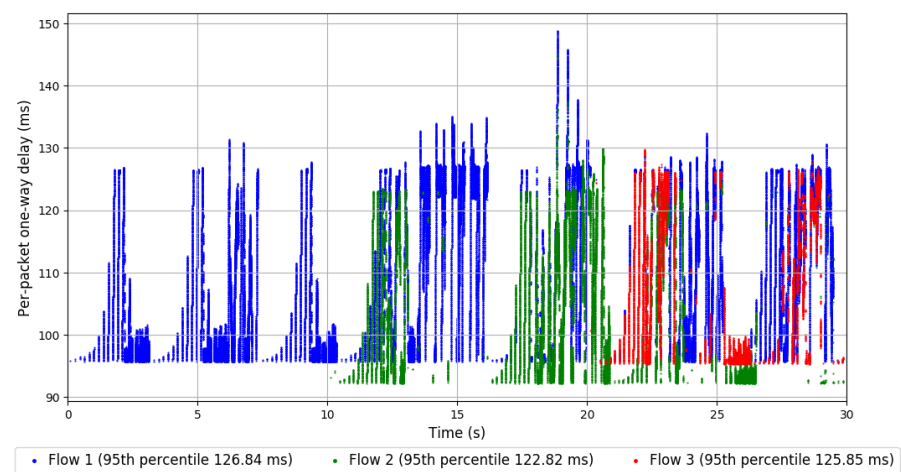
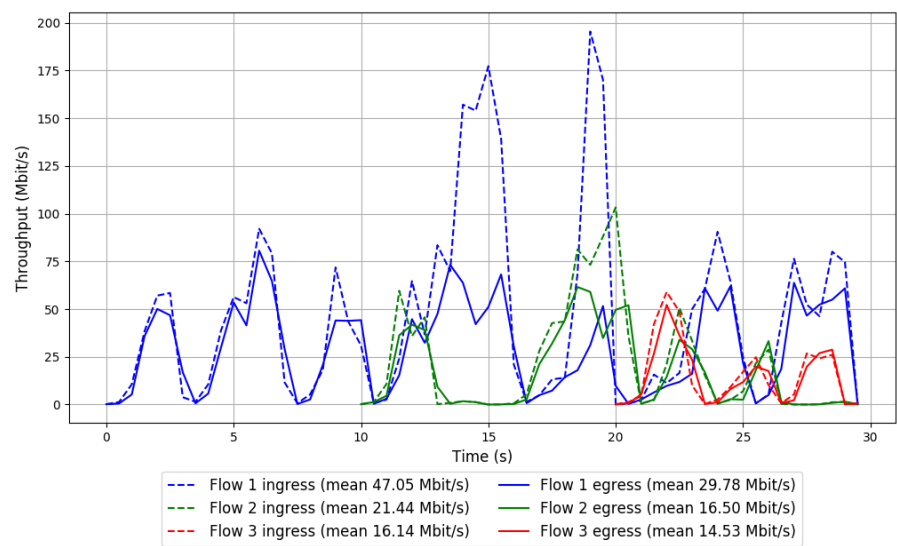


Run 3: Statistics of Verus

Start at: 2018-02-04 00:01:32
End at: 2018-02-04 00:02:02
Local clock offset: 0.115 ms
Remote clock offset: -3.946 ms

Below is generated by plot.py at 2018-02-04 03:18:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.46 Mbit/s
95th percentile per-packet one-way delay: 126.442 ms
Loss rate: 31.66%
-- Flow 1:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 126.839 ms
Loss rate: 36.70%
-- Flow 2:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 122.818 ms
Loss rate: 23.03%
-- Flow 3:
Average throughput: 14.53 Mbit/s
95th percentile per-packet one-way delay: 125.850 ms
Loss rate: 10.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-04 00:24:01

End at: 2018-02-04 00:24:31

Local clock offset: 0.093 ms

Remote clock offset: 2.151 ms

Below is generated by plot.py at 2018-02-04 03:18:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.64 Mbit/s

95th percentile per-packet one-way delay: 138.320 ms

Loss rate: 45.58%

-- Flow 1:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 141.821 ms

Loss rate: 54.82%

-- Flow 2:

Average throughput: 19.38 Mbit/s

95th percentile per-packet one-way delay: 137.195 ms

Loss rate: 16.13%

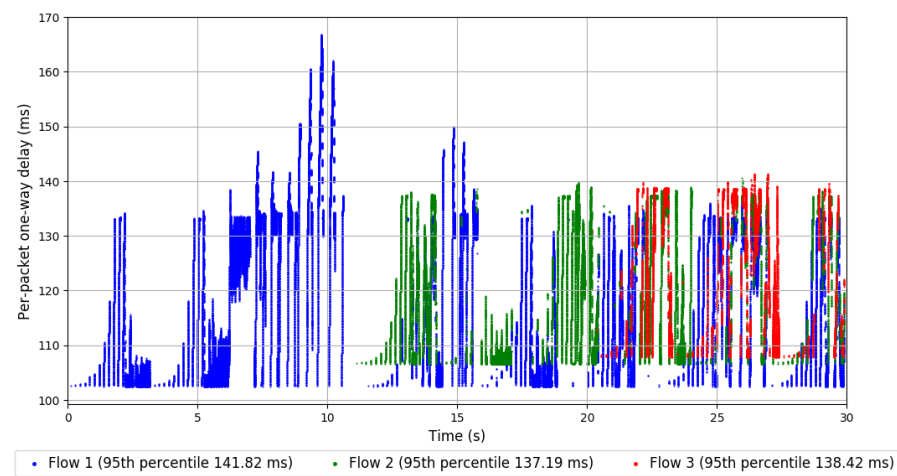
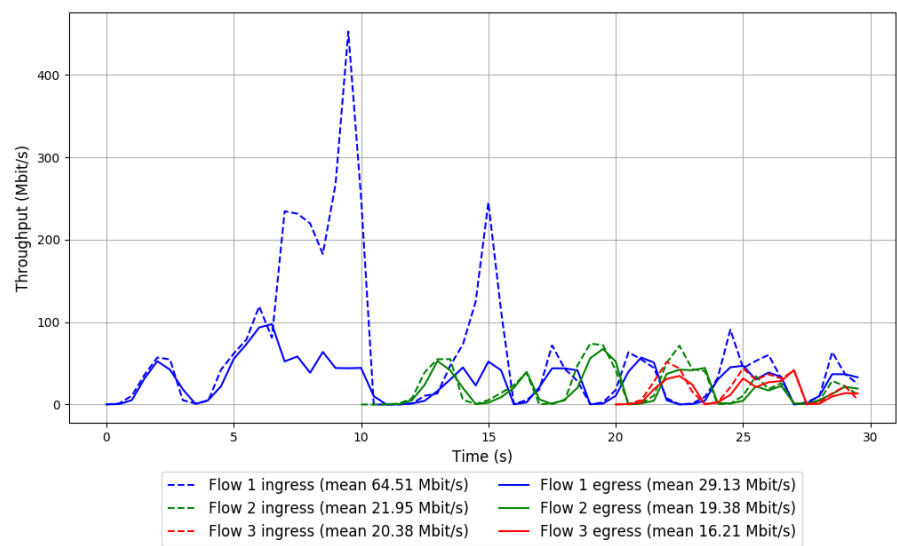
-- Flow 3:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 138.417 ms

Loss rate: 20.54%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-04 00:46:28

End at: 2018-02-04 00:46:58

Local clock offset: 0.085 ms

Remote clock offset: 2.56 ms

Below is generated by plot.py at 2018-02-04 03:19:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.43 Mbit/s

95th percentile per-packet one-way delay: 178.616 ms

Loss rate: 83.29%

-- Flow 1:

Average throughput: 37.82 Mbit/s

95th percentile per-packet one-way delay: 179.748 ms

Loss rate: 83.93%

-- Flow 2:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 139.717 ms

Loss rate: 71.41%

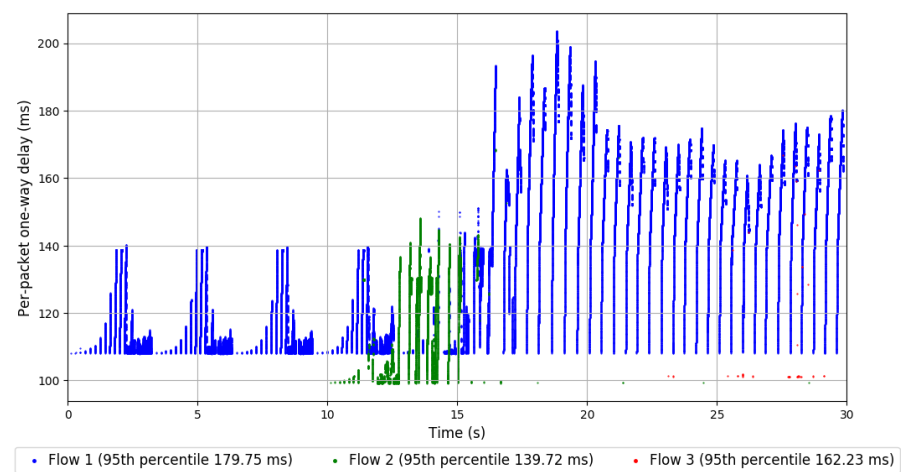
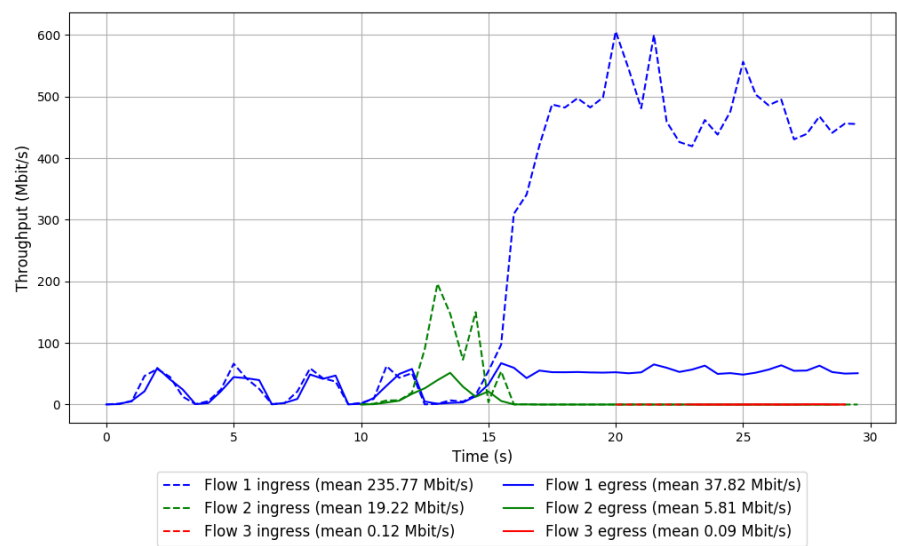
-- Flow 3:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 162.228 ms

Loss rate: 50.55%

Run 5: Report of Verus — Data Link

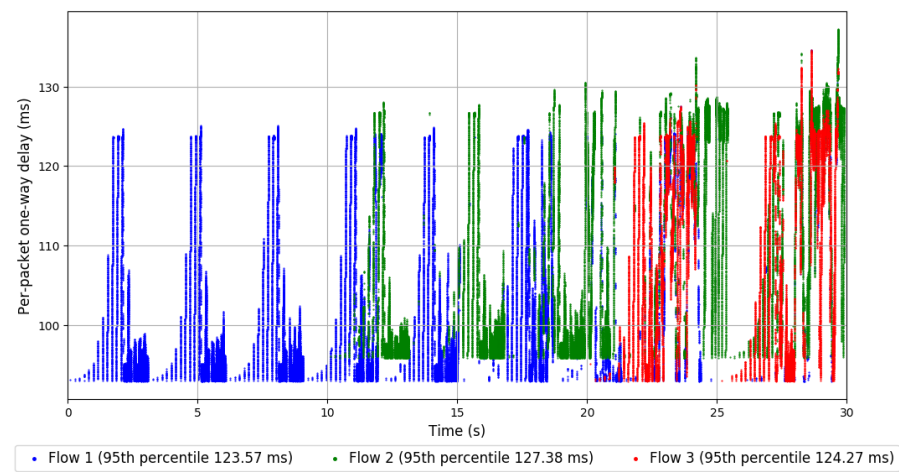
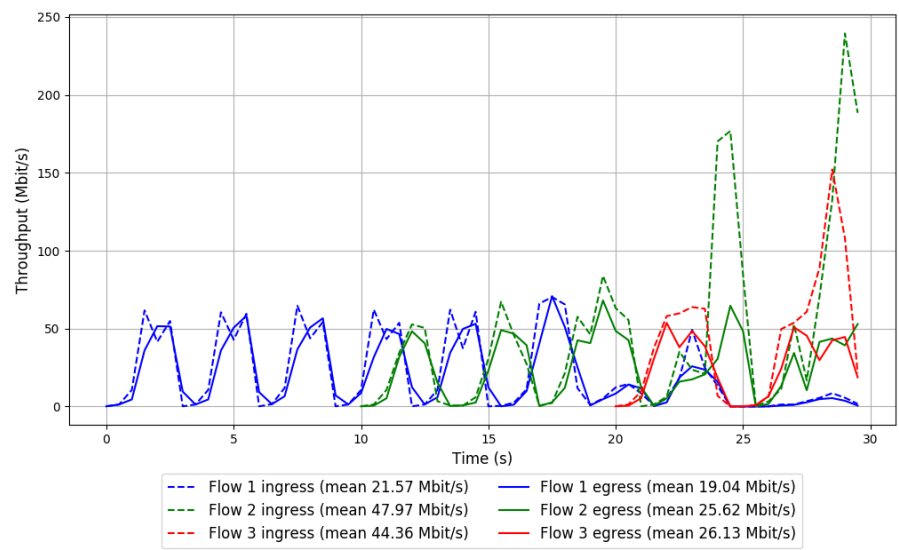


Run 6: Statistics of Verus

Start at: 2018-02-04 01:08:59
End at: 2018-02-04 01:09:29
Local clock offset: 0.015 ms
Remote clock offset: -1.983 ms

Below is generated by plot.py at 2018-02-04 03:19:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.24 Mbit/s
95th percentile per-packet one-way delay: 126.552 ms
Loss rate: 34.26%
-- Flow 1:
Average throughput: 19.04 Mbit/s
95th percentile per-packet one-way delay: 123.570 ms
Loss rate: 11.65%
-- Flow 2:
Average throughput: 25.62 Mbit/s
95th percentile per-packet one-way delay: 127.378 ms
Loss rate: 46.50%
-- Flow 3:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 124.268 ms
Loss rate: 40.91%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-04 01:31:28

End at: 2018-02-04 01:31:58

Local clock offset: 0.055 ms

Remote clock offset: 3.09 ms

Below is generated by plot.py at 2018-02-04 03:19:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 138.384 ms

Loss rate: 46.77%

-- Flow 1:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 134.059 ms

Loss rate: 47.40%

-- Flow 2:

Average throughput: 21.30 Mbit/s

95th percentile per-packet one-way delay: 143.704 ms

Loss rate: 43.40%

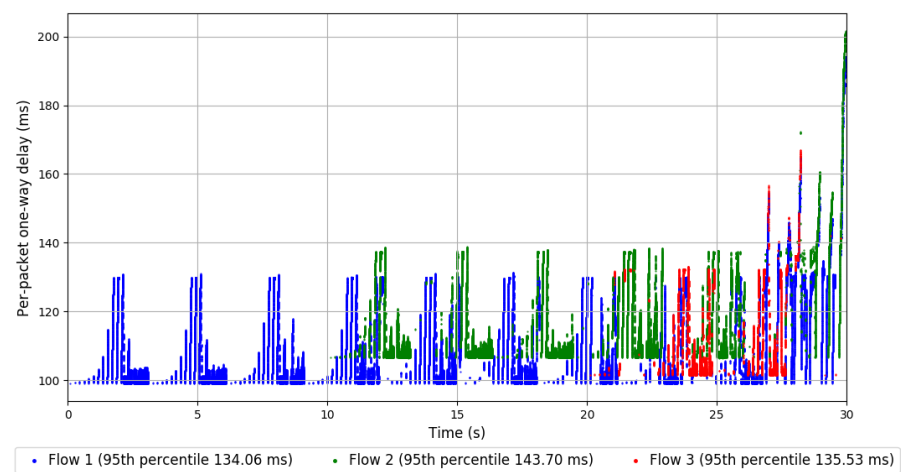
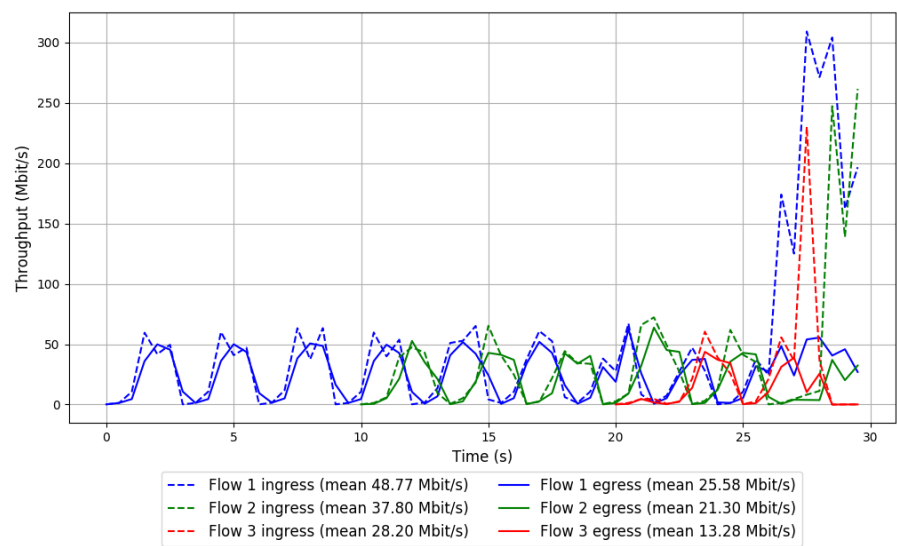
-- Flow 3:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 135.530 ms

Loss rate: 52.69%

Run 7: Report of Verus — Data Link

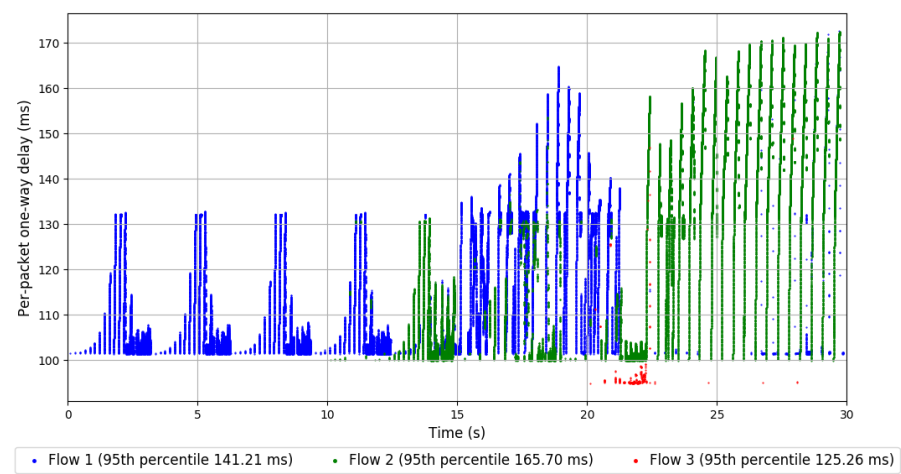
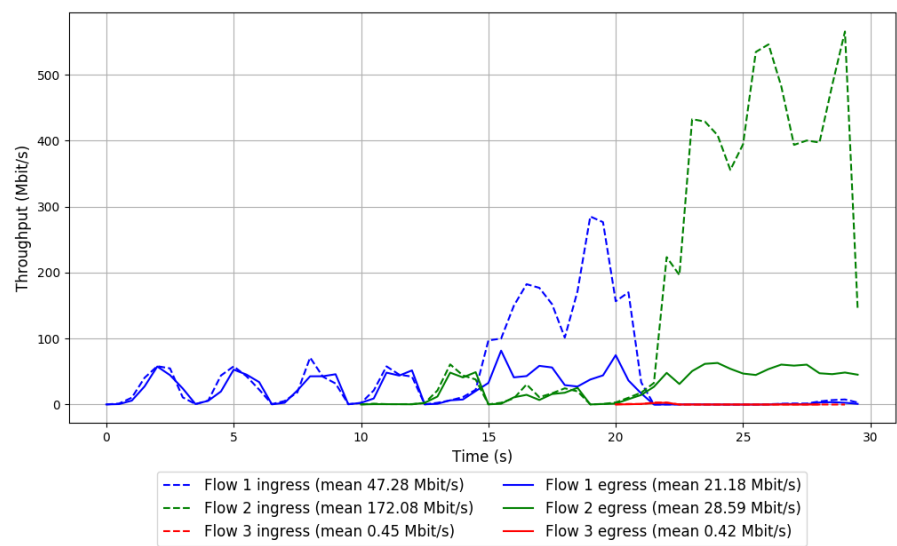


Run 8: Statistics of Verus

Start at: 2018-02-04 01:53:55
End at: 2018-02-04 01:54:25
Local clock offset: 0.097 ms
Remote clock offset: -1.58 ms

Below is generated by plot.py at 2018-02-04 03:19:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 160.934 ms
Loss rate: 75.00%
-- Flow 1:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 141.209 ms
Loss rate: 55.20%
-- Flow 2:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 165.702 ms
Loss rate: 83.35%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 125.261 ms
Loss rate: 18.34%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-04 02:16:23

End at: 2018-02-04 02:16:53

Local clock offset: 0.038 ms

Remote clock offset: 3.419 ms

Below is generated by plot.py at 2018-02-04 03:19:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 136.547 ms

Loss rate: 34.09%

-- Flow 1:

Average throughput: 24.62 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 36.43%

-- Flow 2:

Average throughput: 19.83 Mbit/s

95th percentile per-packet one-way delay: 130.308 ms

Loss rate: 30.87%

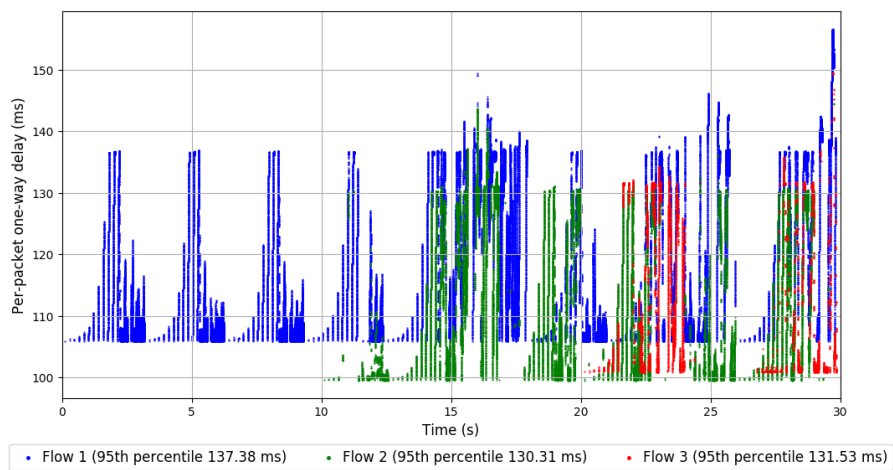
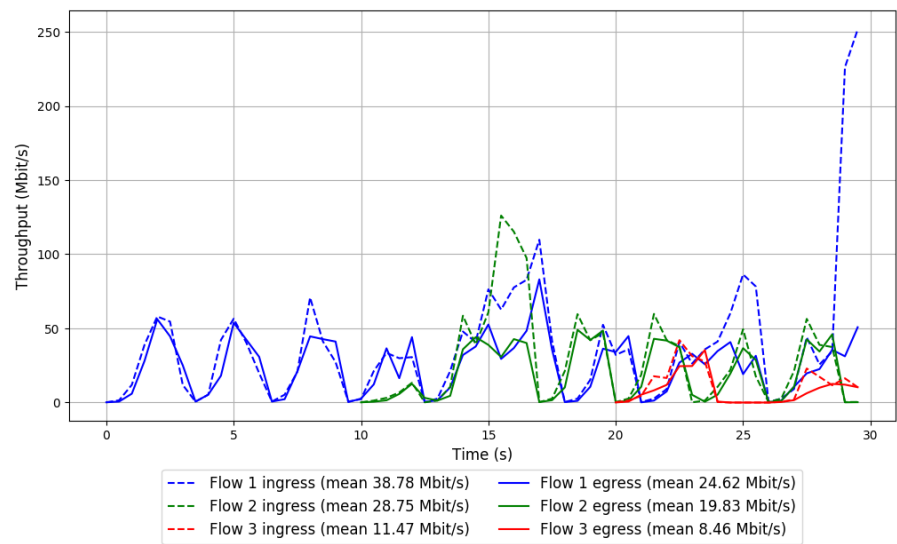
-- Flow 3:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 131.533 ms

Loss rate: 26.21%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-04 02:38:50

End at: 2018-02-04 02:39:20

Local clock offset: 0.018 ms

Remote clock offset: 3.513 ms

Below is generated by plot.py at 2018-02-04 03:19:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.31 Mbit/s

95th percentile per-packet one-way delay: 131.409 ms

Loss rate: 15.92%

-- Flow 1:

Average throughput: 20.70 Mbit/s

95th percentile per-packet one-way delay: 131.349 ms

Loss rate: 10.06%

-- Flow 2:

Average throughput: 21.59 Mbit/s

95th percentile per-packet one-way delay: 131.508 ms

Loss rate: 23.57%

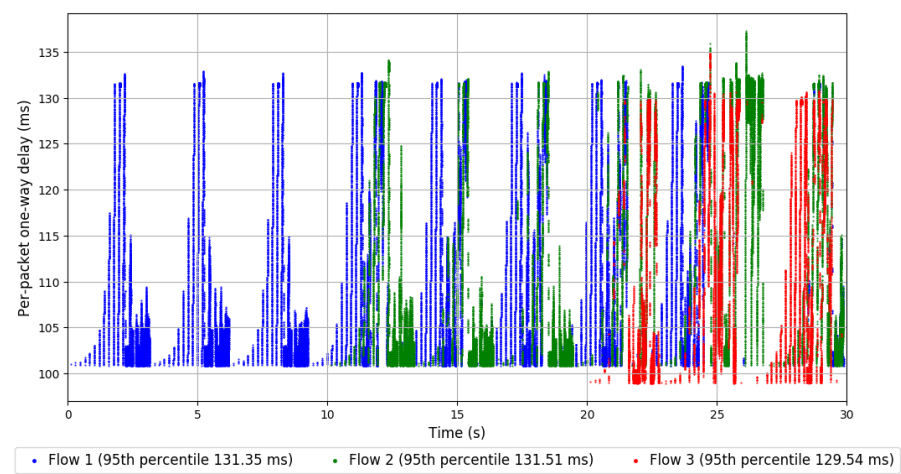
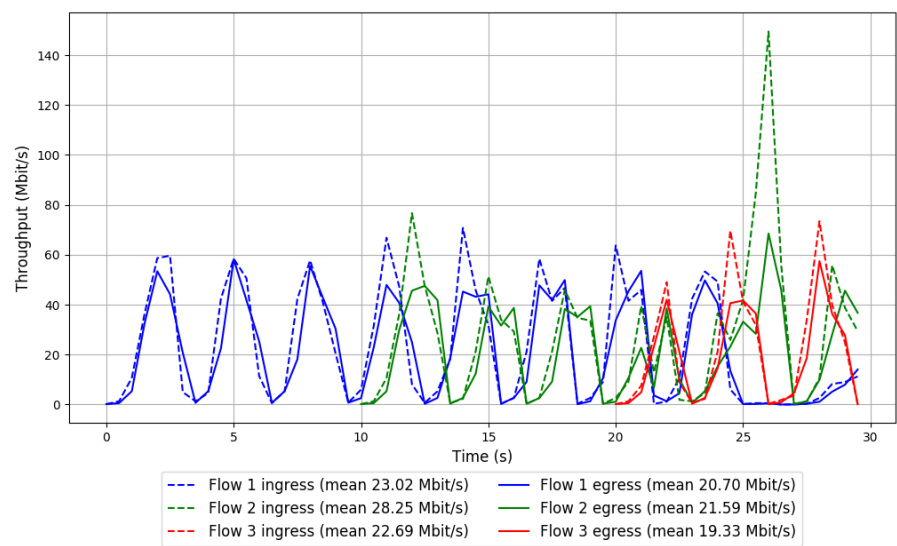
-- Flow 3:

Average throughput: 19.33 Mbit/s

95th percentile per-packet one-way delay: 129.539 ms

Loss rate: 14.77%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-03 23:12:36

End at: 2018-02-03 23:13:06

Local clock offset: -0.098 ms

Remote clock offset: 1.446 ms

Below is generated by plot.py at 2018-02-04 03:20:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.66 Mbit/s

95th percentile per-packet one-way delay: 108.060 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.91 Mbit/s

95th percentile per-packet one-way delay: 103.863 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.27 Mbit/s

95th percentile per-packet one-way delay: 107.108 ms

Loss rate: 0.00%

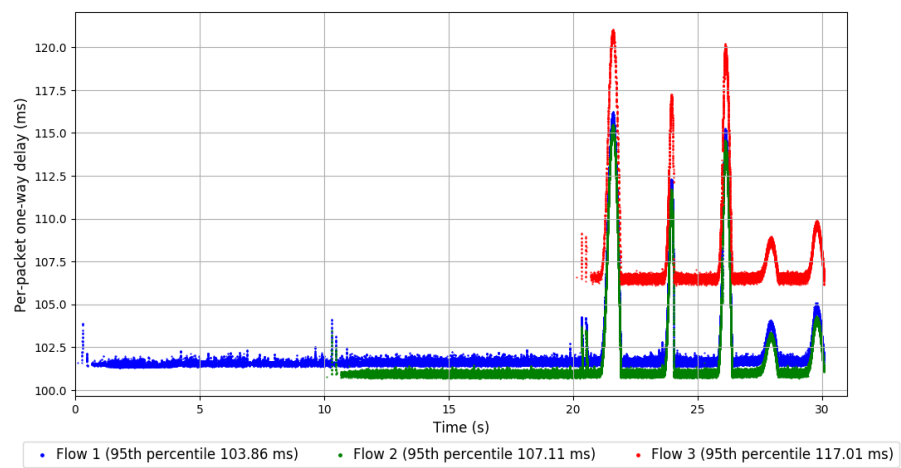
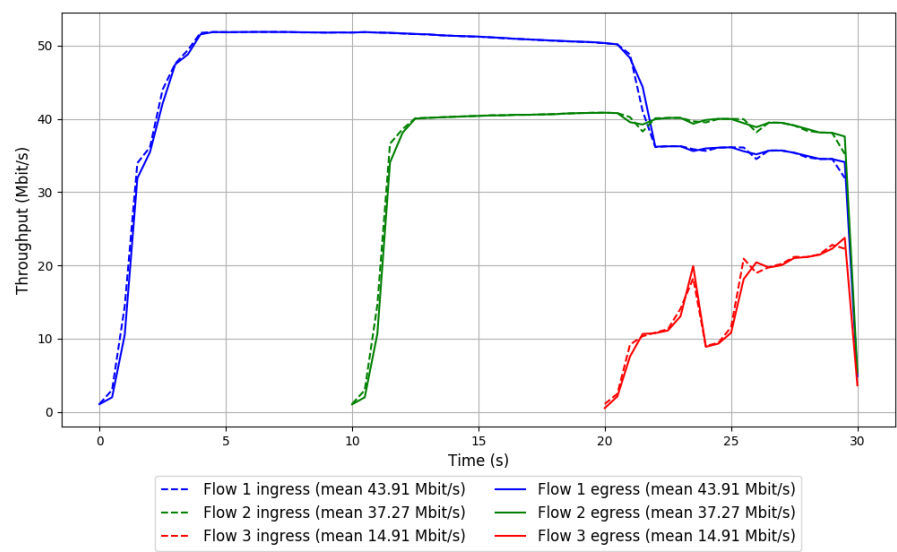
-- Flow 3:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 117.006 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link

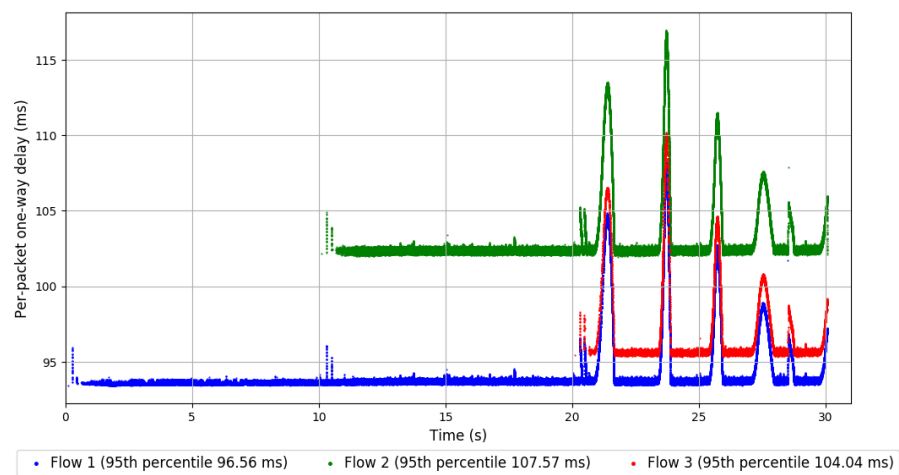
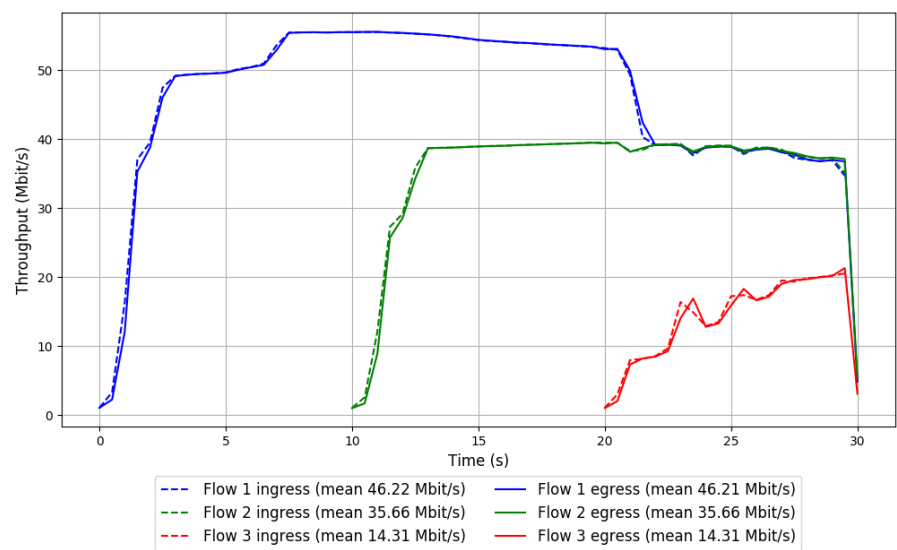


Run 2: Statistics of Copa

Start at: 2018-02-03 23:35:05
End at: 2018-02-03 23:35:35
Local clock offset: -0.079 ms
Remote clock offset: -4.202 ms

Below is generated by plot.py at 2018-02-04 03:20:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.70 Mbit/s
95th percentile per-packet one-way delay: 103.799 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.21 Mbit/s
95th percentile per-packet one-way delay: 96.559 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.66 Mbit/s
95th percentile per-packet one-way delay: 107.570 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 104.039 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-03 23:57:35

End at: 2018-02-03 23:58:05

Local clock offset: 0.009 ms

Remote clock offset: 1.714 ms

Below is generated by plot.py at 2018-02-04 03:20:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.68 Mbit/s

95th percentile per-packet one-way delay: 109.102 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 108.774 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 108.842 ms

Loss rate: 0.00%

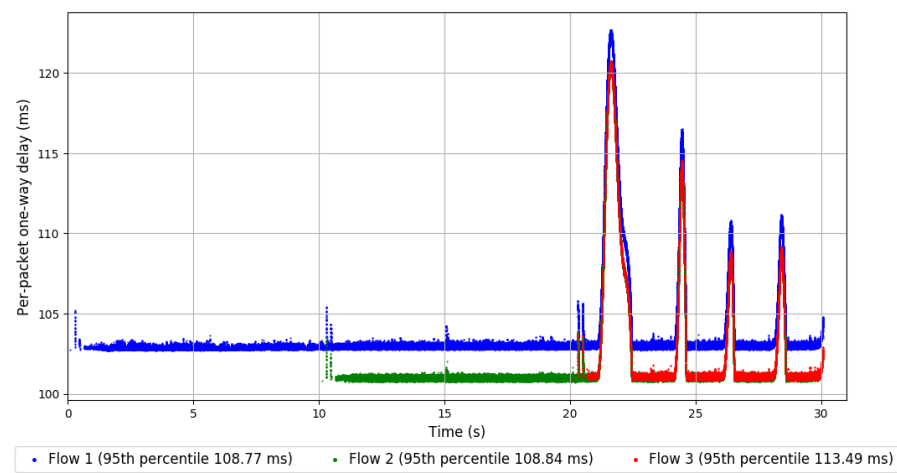
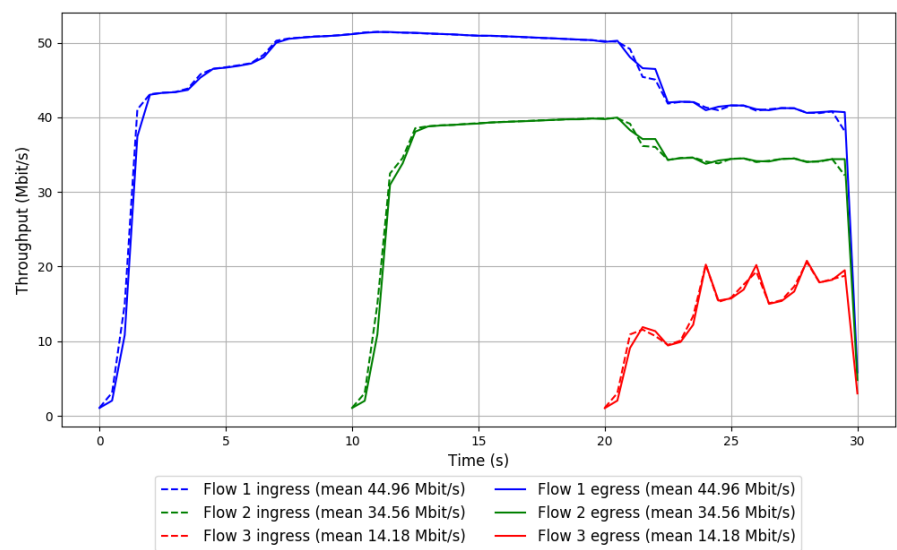
-- Flow 3:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 113.492 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-04 00:20:05

End at: 2018-02-04 00:20:35

Local clock offset: 0.091 ms

Remote clock offset: 2.05 ms

Below is generated by plot.py at 2018-02-04 03:20:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.18 Mbit/s

95th percentile per-packet one-way delay: 109.899 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 104.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 112.852 ms

Loss rate: 0.00%

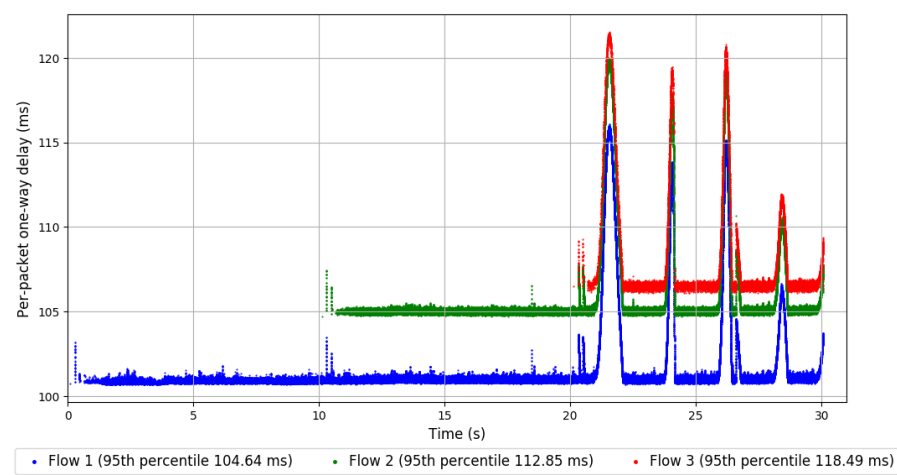
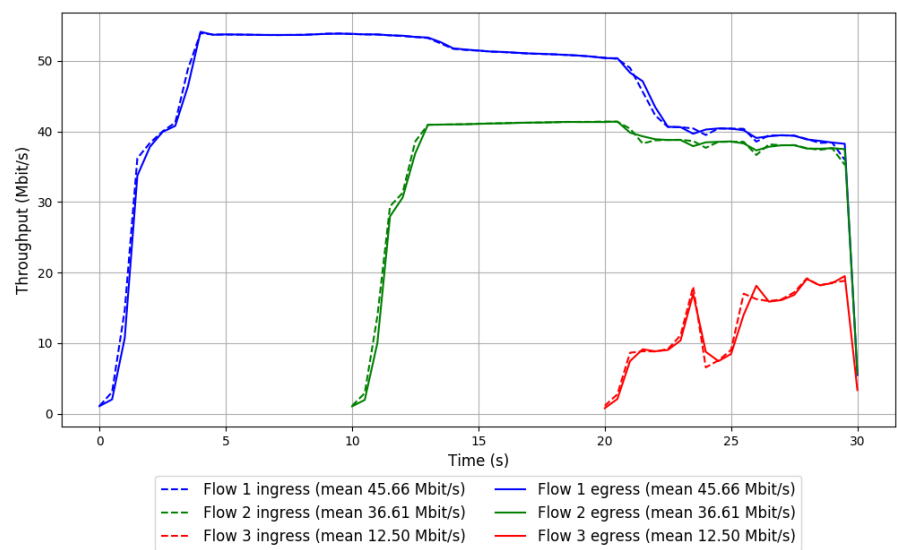
-- Flow 3:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 118.490 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-04 00:42:33

End at: 2018-02-04 00:43:03

Local clock offset: 0.089 ms

Remote clock offset: -2.31 ms

Below is generated by plot.py at 2018-02-04 03:20:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 102.683 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 100.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 105.308 ms

Loss rate: 0.00%

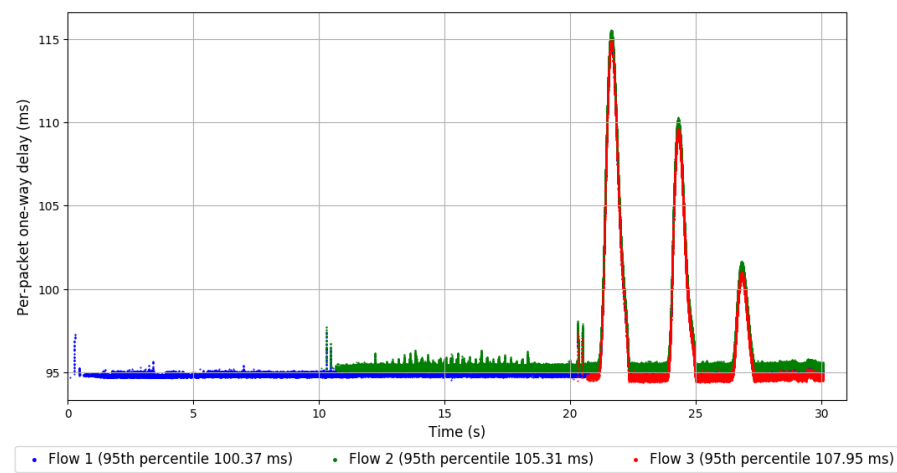
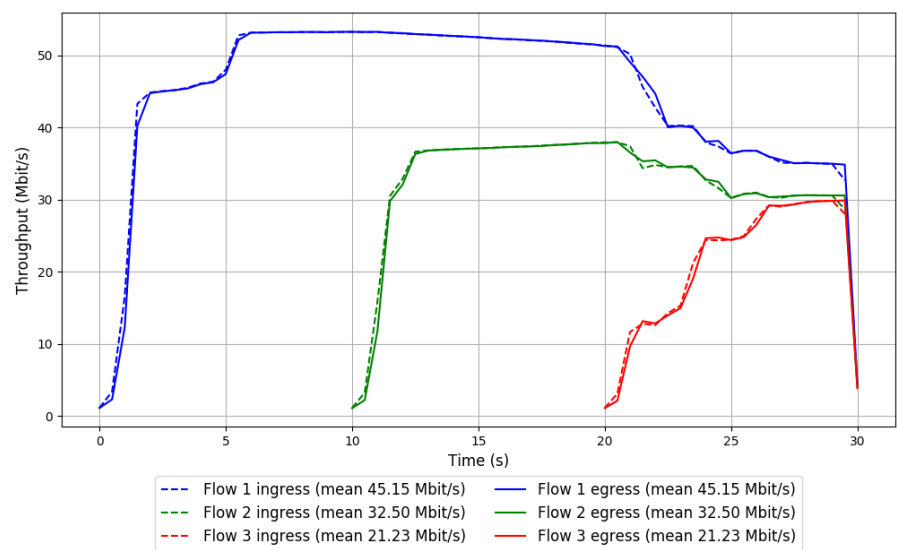
-- Flow 3:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 107.954 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-04 01:05:03

End at: 2018-02-04 01:05:33

Local clock offset: 0.018 ms

Remote clock offset: 2.931 ms

Below is generated by plot.py at 2018-02-04 03:21:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 111.417 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 106.036 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 114.861 ms

Loss rate: 0.00%

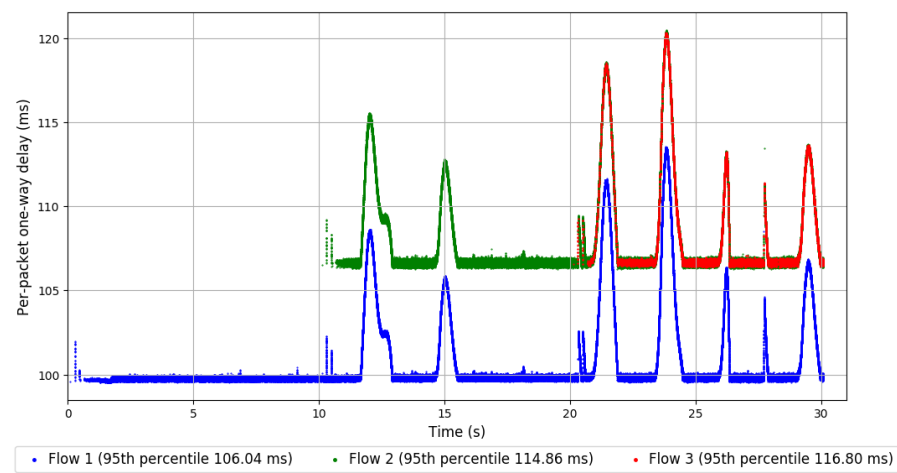
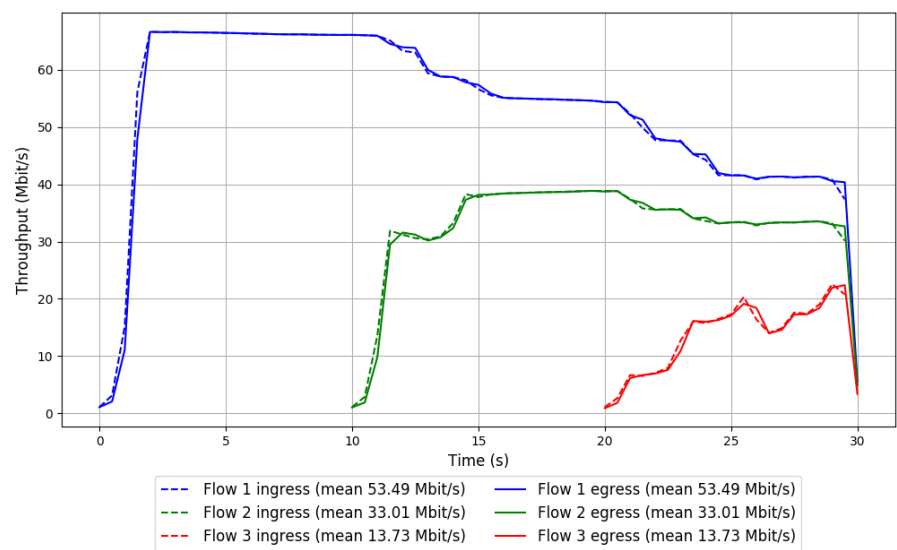
-- Flow 3:

Average throughput: 13.73 Mbit/s

95th percentile per-packet one-way delay: 116.799 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

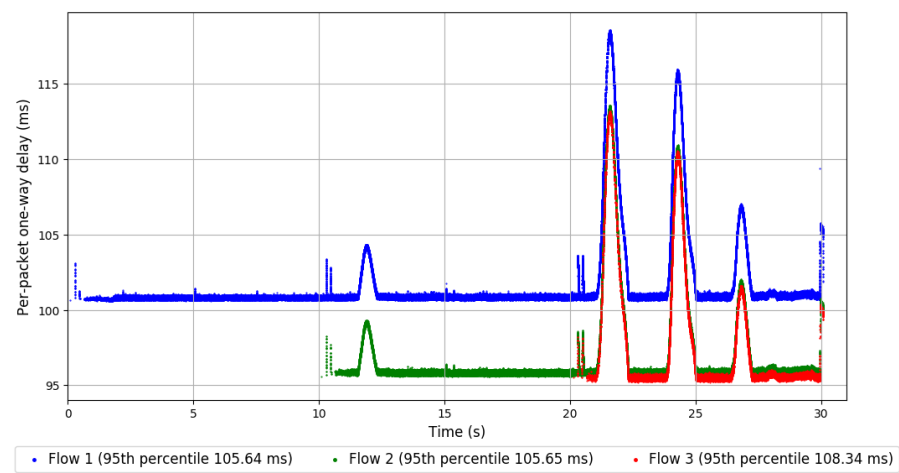
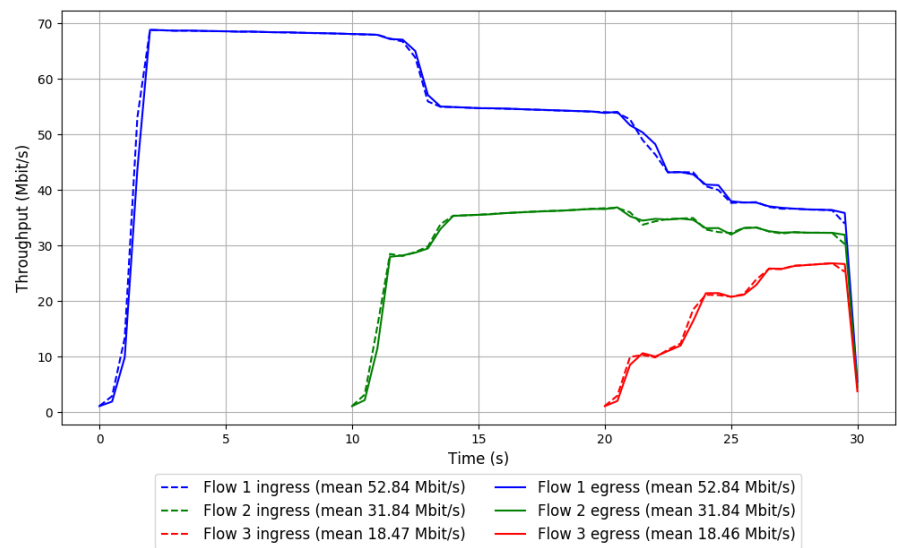


Run 7: Statistics of Copa

Start at: 2018-02-04 01:27:31
End at: 2018-02-04 01:28:01
Local clock offset: 0.081 ms
Remote clock offset: -2.644 ms

Below is generated by plot.py at 2018-02-04 03:21:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.18 Mbit/s
95th percentile per-packet one-way delay: 105.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.84 Mbit/s
95th percentile per-packet one-way delay: 105.640 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 105.652 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.46 Mbit/s
95th percentile per-packet one-way delay: 108.340 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-04 01:50:00

End at: 2018-02-04 01:50:30

Local clock offset: 0.103 ms

Remote clock offset: 3.183 ms

Below is generated by plot.py at 2018-02-04 03:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.79 Mbit/s

95th percentile per-packet one-way delay: 117.941 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 111.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.44 Mbit/s

95th percentile per-packet one-way delay: 120.643 ms

Loss rate: 0.01%

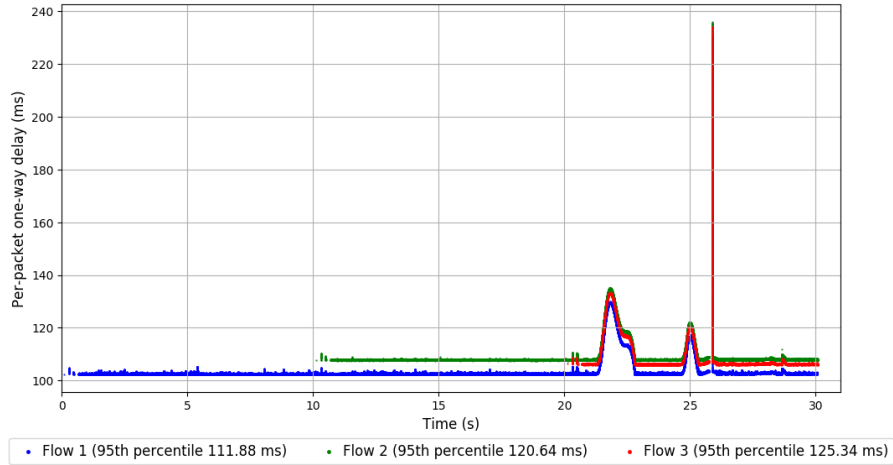
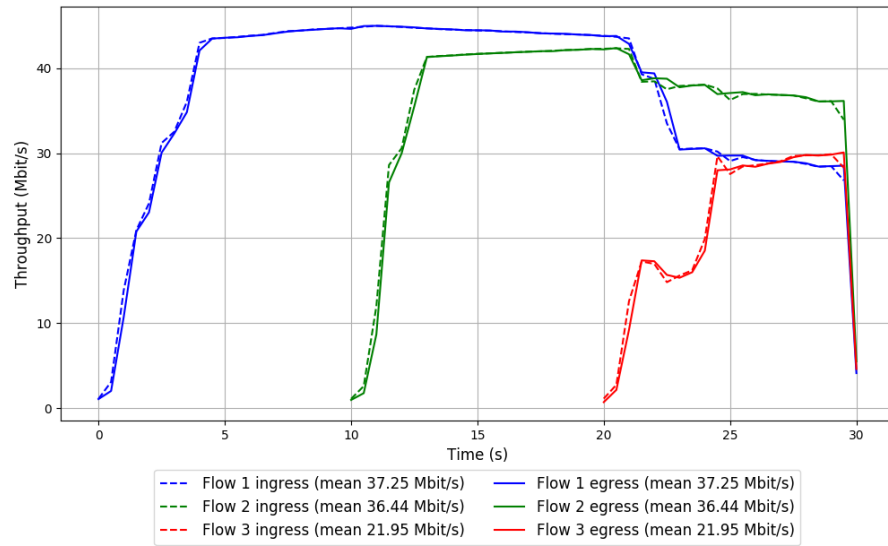
-- Flow 3:

Average throughput: 21.95 Mbit/s

95th percentile per-packet one-way delay: 125.338 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

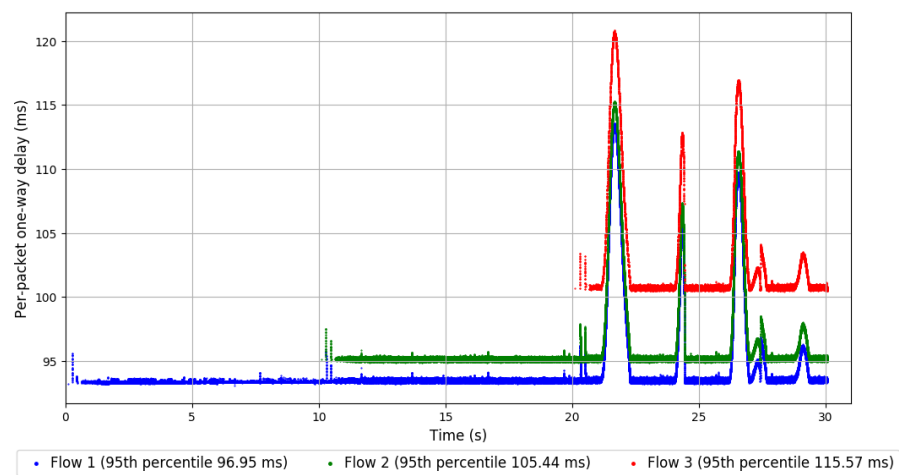
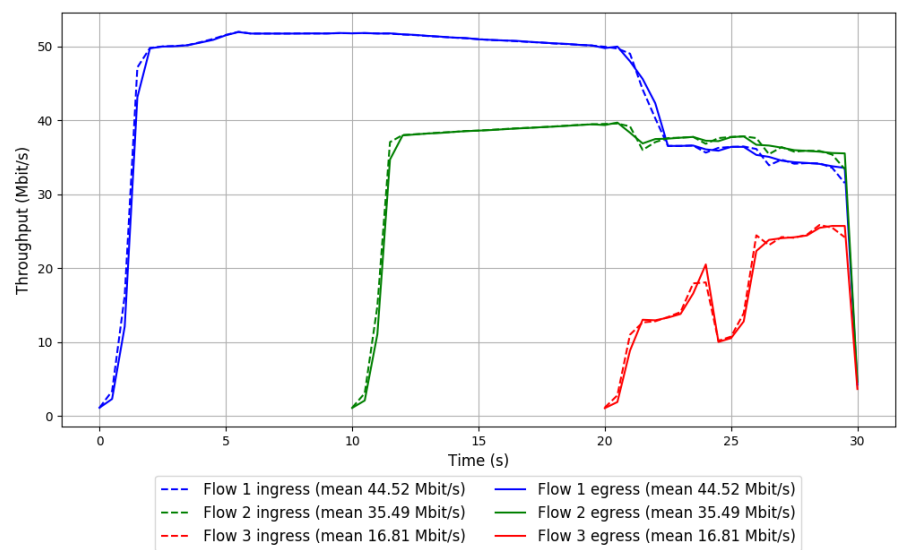


Run 9: Statistics of Copa

Start at: 2018-02-04 02:12:27
End at: 2018-02-04 02:12:57
Local clock offset: 0.089 ms
Remote clock offset: -2.303 ms

Below is generated by plot.py at 2018-02-04 03:22:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.72 Mbit/s
95th percentile per-packet one-way delay: 103.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 96.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.49 Mbit/s
95th percentile per-packet one-way delay: 105.436 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.81 Mbit/s
95th percentile per-packet one-way delay: 115.567 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

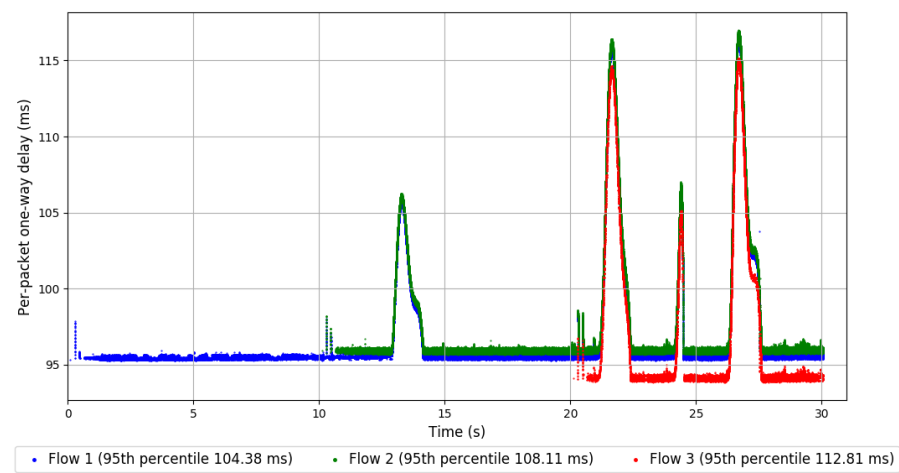
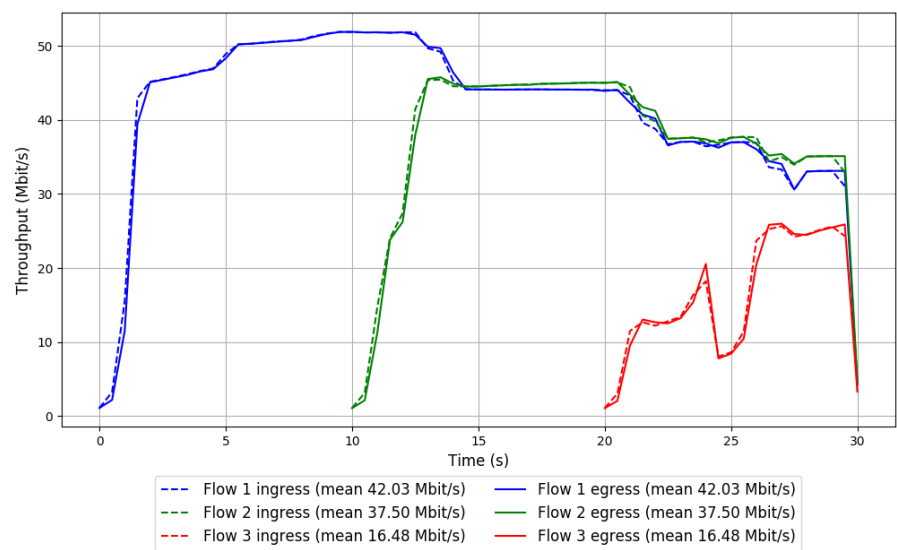


Run 10: Statistics of Copa

Start at: 2018-02-04 02:34:54
End at: 2018-02-04 02:35:24
Local clock offset: -0.0 ms
Remote clock offset: -2.113 ms

Below is generated by plot.py at 2018-02-04 03:22:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.47 Mbit/s
95th percentile per-packet one-way delay: 106.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 104.380 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 108.107 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.48 Mbit/s
95th percentile per-packet one-way delay: 112.814 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

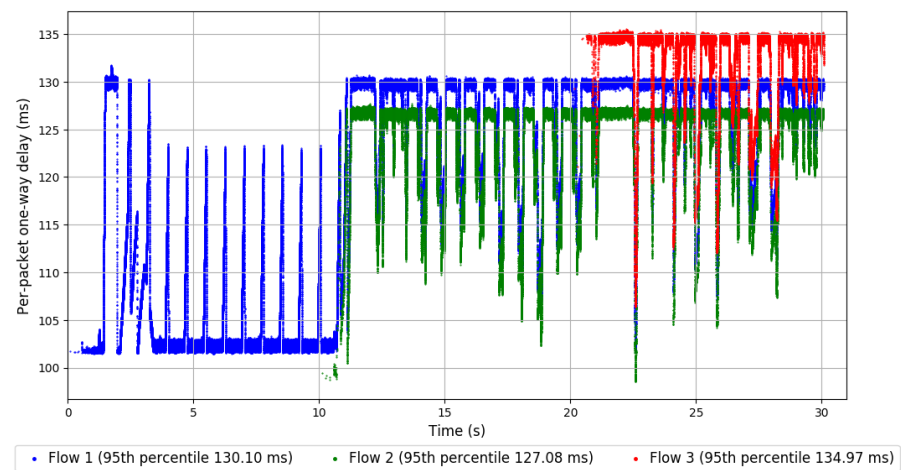
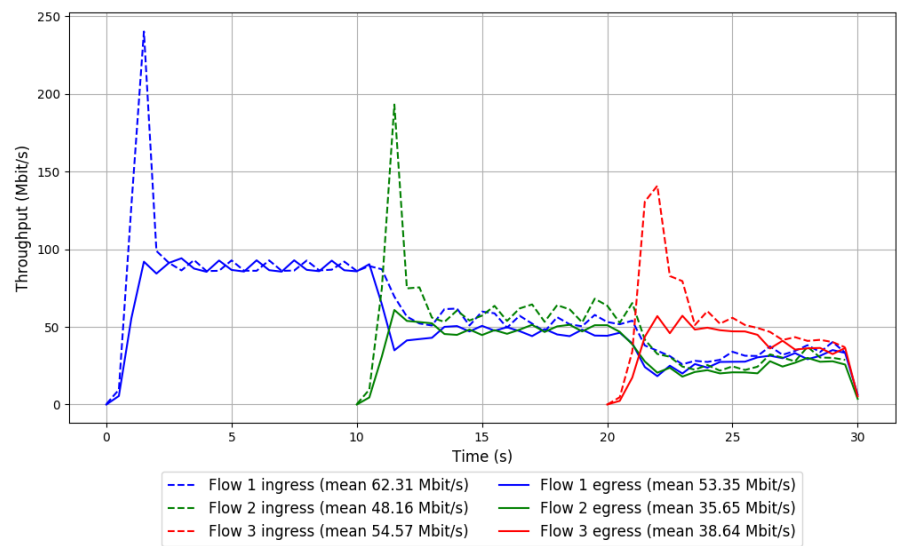


```
Run 1: Statistics of FillP

Start at: 2018-02-03 23:09:50
End at: 2018-02-03 23:10:20
Local clock offset: -0.011 ms
Remote clock offset: 2.323 ms

# Below is generated by plot.py at 2018-02-04 03:23:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 134.612 ms
Loss rate: 19.99%
-- Flow 1:
Average throughput: 53.35 Mbit/s
95th percentile per-packet one-way delay: 130.098 ms
Loss rate: 14.30%
-- Flow 2:
Average throughput: 35.65 Mbit/s
95th percentile per-packet one-way delay: 127.079 ms
Loss rate: 25.87%
-- Flow 3:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 134.966 ms
Loss rate: 29.18%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-03 23:32:19

End at: 2018-02-03 23:32:49

Local clock offset: -0.022 ms

Remote clock offset: -3.41 ms

Below is generated by plot.py at 2018-02-04 03:23:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 126.140 ms

Loss rate: 17.98%

-- Flow 1:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 124.586 ms

Loss rate: 13.00%

-- Flow 2:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: 126.329 ms

Loss rate: 22.15%

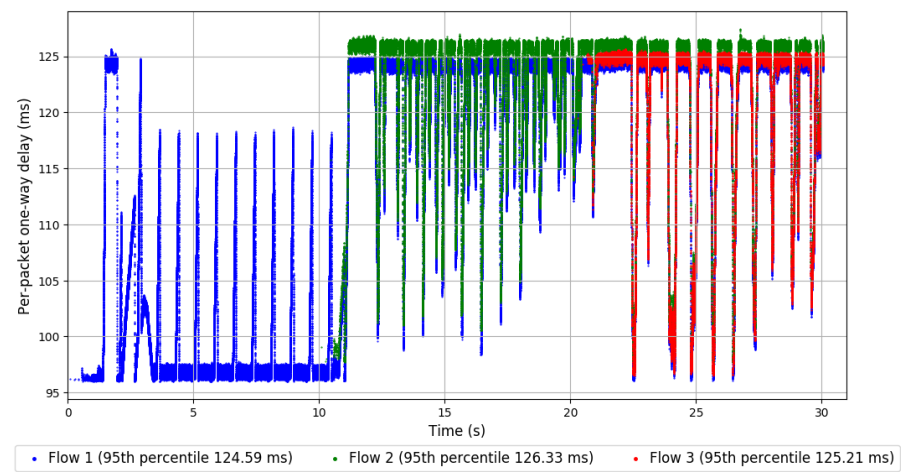
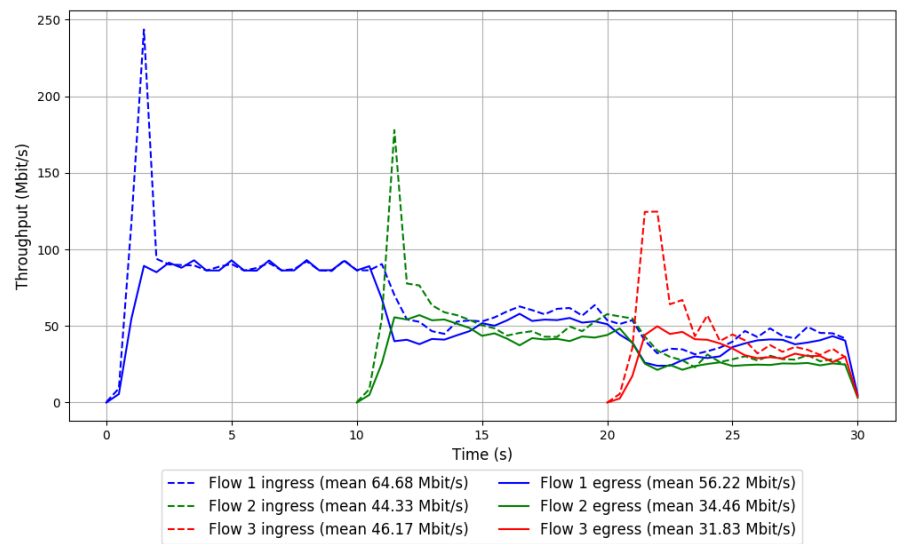
-- Flow 3:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 125.212 ms

Loss rate: 30.99%

Run 2: Report of FillP — Data Link

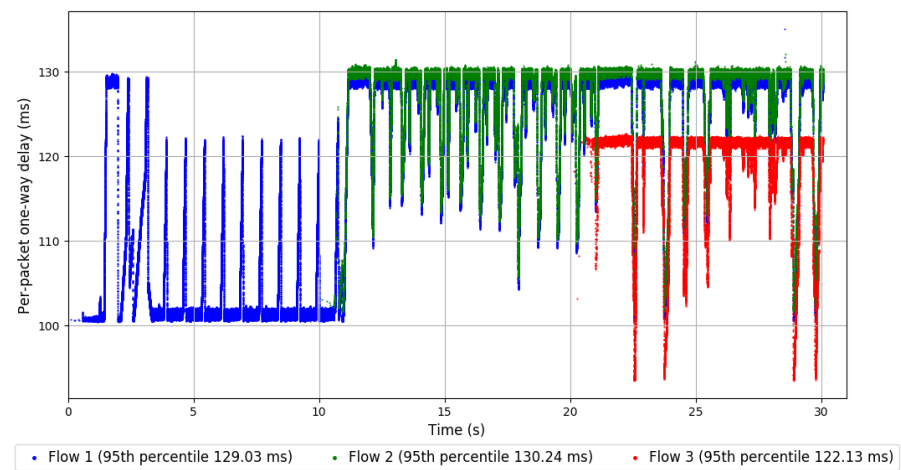
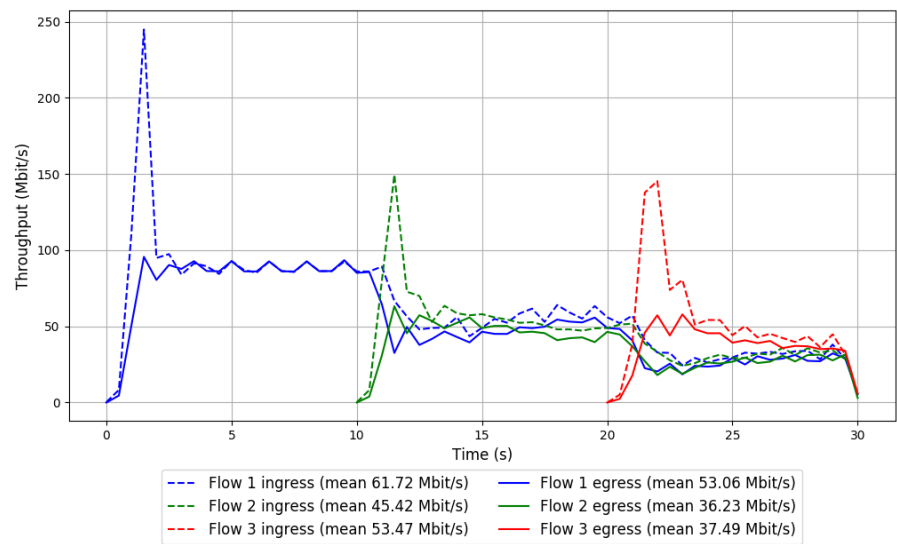


Run 3: Statistics of FillP

Start at: 2018-02-03 23:54:48
End at: 2018-02-03 23:55:18
Local clock offset: 0.102 ms
Remote clock offset: -3.946 ms

Below is generated by plot.py at 2018-02-04 03:23:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 130.039 ms
Loss rate: 18.23%
-- Flow 1:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 129.030 ms
Loss rate: 13.95%
-- Flow 2:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 130.235 ms
Loss rate: 20.14%
-- Flow 3:
Average throughput: 37.49 Mbit/s
95th percentile per-packet one-way delay: 122.133 ms
Loss rate: 29.86%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-04 00:17:20

End at: 2018-02-04 00:17:50

Local clock offset: 0.129 ms

Remote clock offset: 2.845 ms

Below is generated by plot.py at 2018-02-04 03:23:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.78 Mbit/s

95th percentile per-packet one-way delay: 137.102 ms

Loss rate: 15.79%

-- Flow 1:

Average throughput: 51.62 Mbit/s

95th percentile per-packet one-way delay: 137.182 ms

Loss rate: 14.30%

-- Flow 2:

Average throughput: 42.41 Mbit/s

95th percentile per-packet one-way delay: 136.997 ms

Loss rate: 17.74%

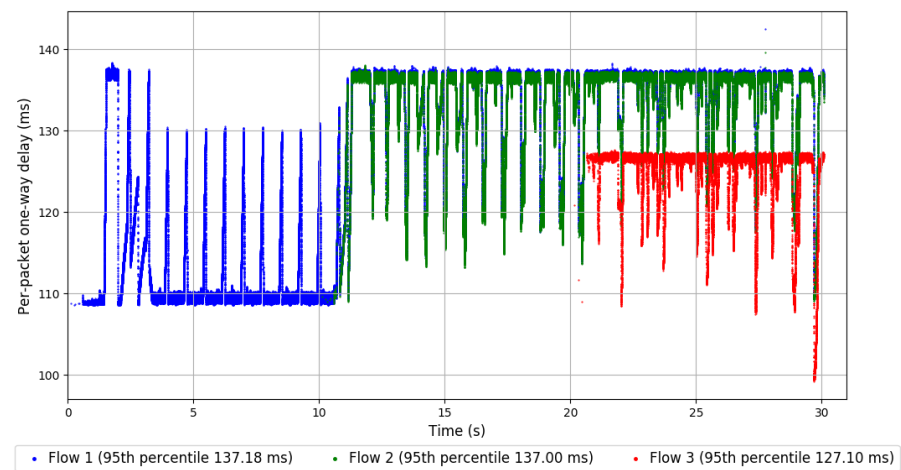
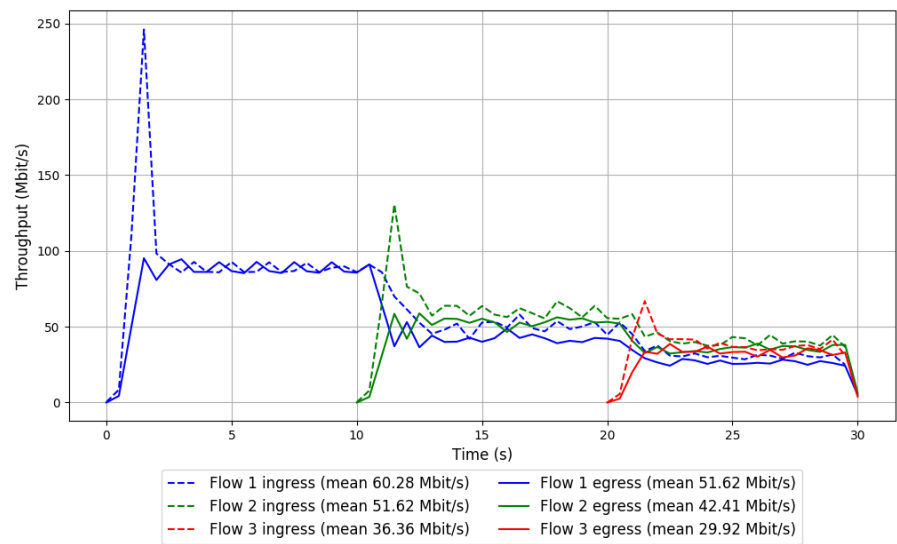
-- Flow 3:

Average throughput: 29.92 Mbit/s

95th percentile per-packet one-way delay: 127.102 ms

Loss rate: 17.65%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-04 00:39:48

End at: 2018-02-04 00:40:18

Local clock offset: 0.02 ms

Remote clock offset: 3.239 ms

Below is generated by plot.py at 2018-02-04 03:24:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 136.940 ms

Loss rate: 18.38%

-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 136.968 ms

Loss rate: 14.61%

-- Flow 2:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 130.571 ms

Loss rate: 22.06%

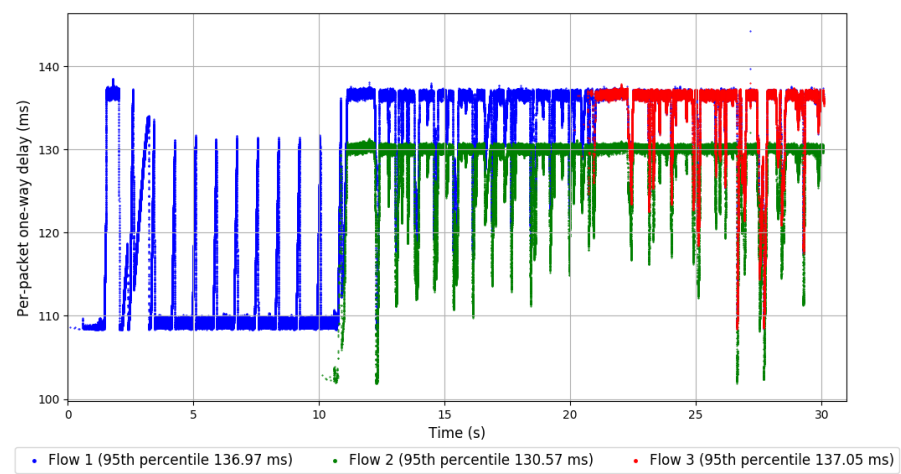
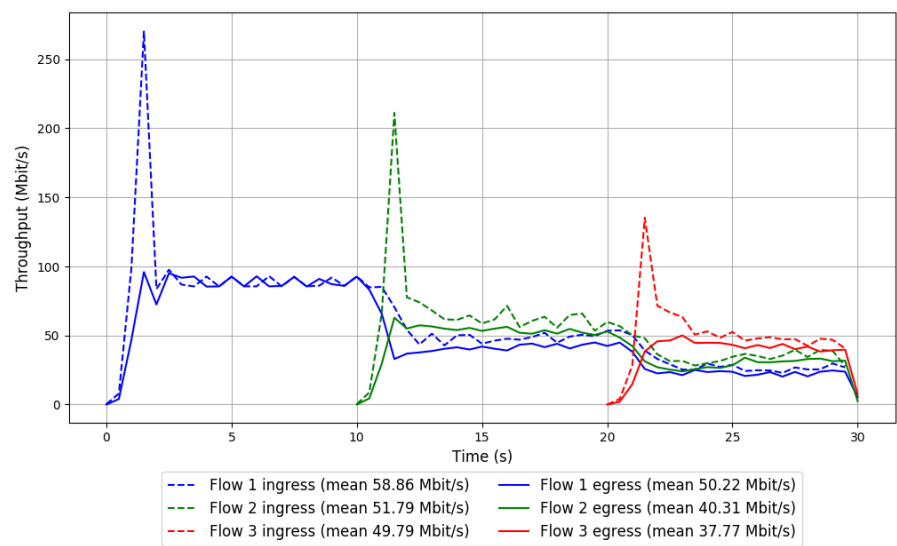
-- Flow 3:

Average throughput: 37.77 Mbit/s

95th percentile per-packet one-way delay: 137.051 ms

Loss rate: 24.12%

Run 5: Report of FillP — Data Link

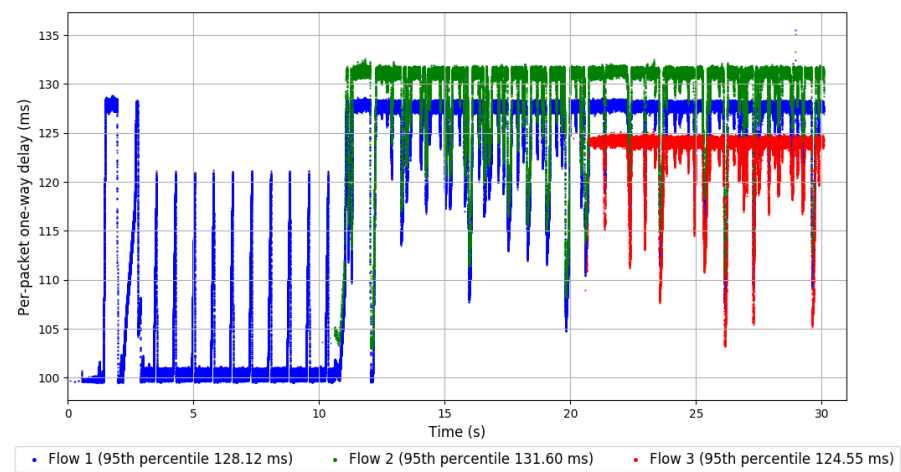
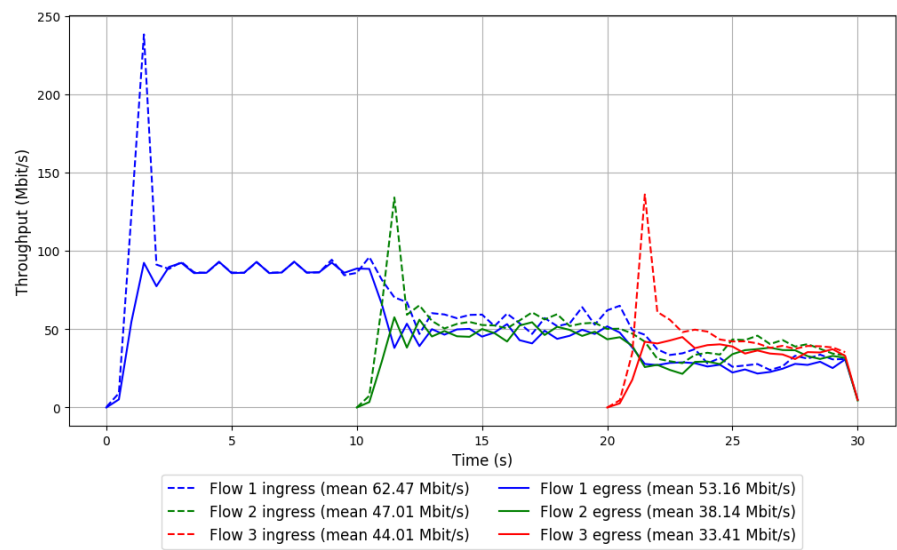


Run 6: Statistics of FillP

Start at: 2018-02-04 01:02:18
End at: 2018-02-04 01:02:48
Local clock offset: -0.056 ms
Remote clock offset: -1.921 ms

Below is generated by plot.py at 2018-02-04 03:24:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 131.412 ms
Loss rate: 17.21%
-- Flow 1:
Average throughput: 53.16 Mbit/s
95th percentile per-packet one-way delay: 128.116 ms
Loss rate: 14.82%
-- Flow 2:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 131.603 ms
Loss rate: 18.77%
-- Flow 3:
Average throughput: 33.41 Mbit/s
95th percentile per-packet one-way delay: 124.553 ms
Loss rate: 24.10%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-04 01:24:46

End at: 2018-02-04 01:25:16

Local clock offset: 0.004 ms

Remote clock offset: 2.224 ms

Below is generated by plot.py at 2018-02-04 03:24:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 133.784 ms

Loss rate: 17.82%

-- Flow 1:

Average throughput: 51.00 Mbit/s

95th percentile per-packet one-way delay: 133.886 ms

Loss rate: 14.28%

-- Flow 2:

Average throughput: 39.72 Mbit/s

95th percentile per-packet one-way delay: 129.030 ms

Loss rate: 17.61%

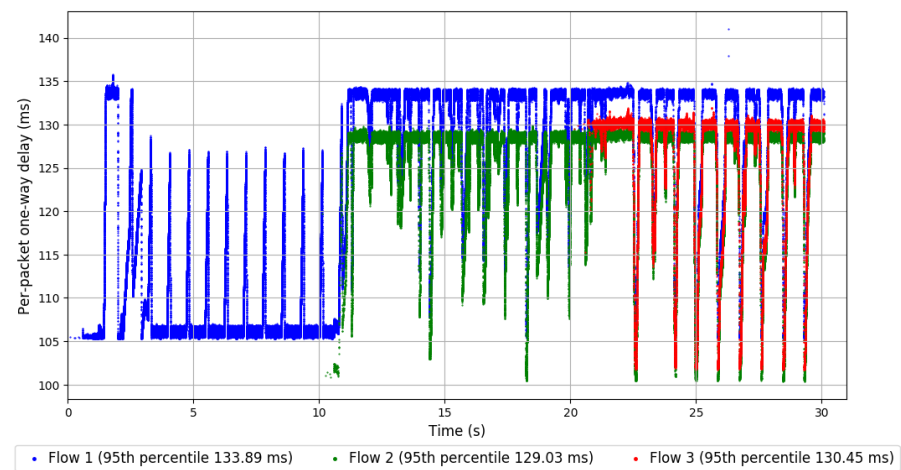
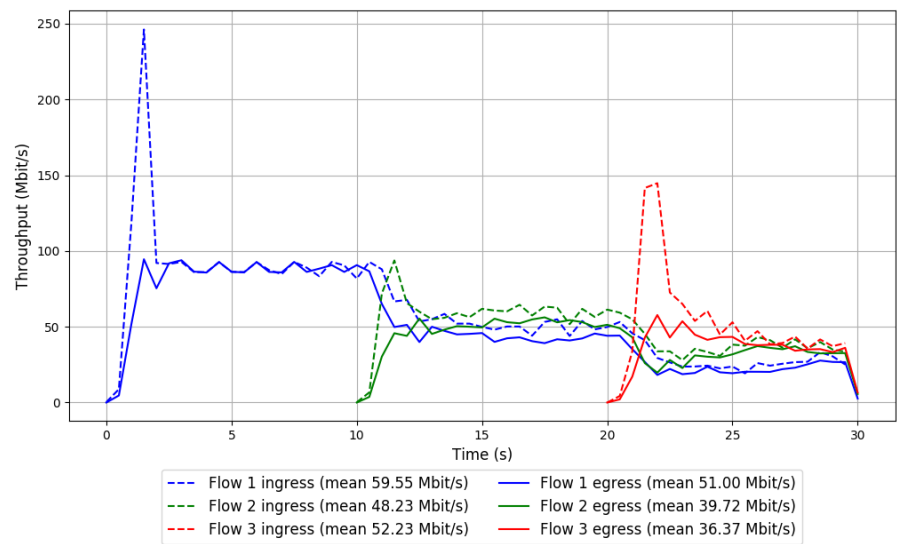
-- Flow 3:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 130.446 ms

Loss rate: 30.36%

Run 7: Report of FillP — Data Link

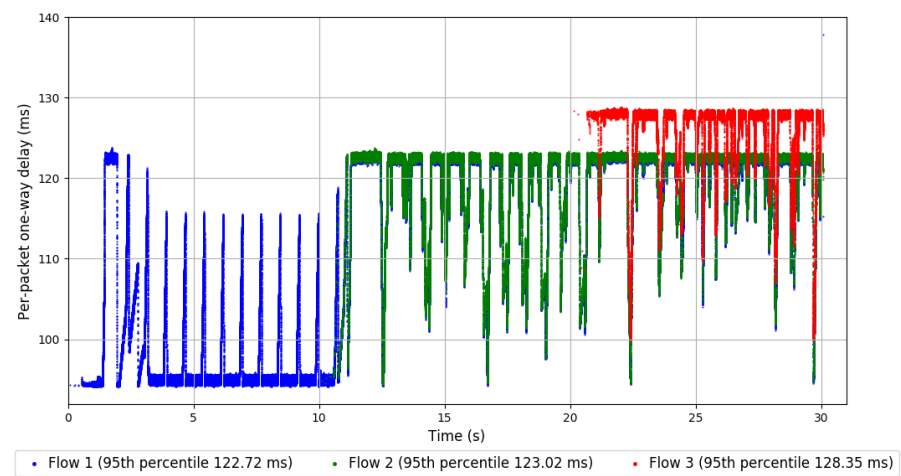
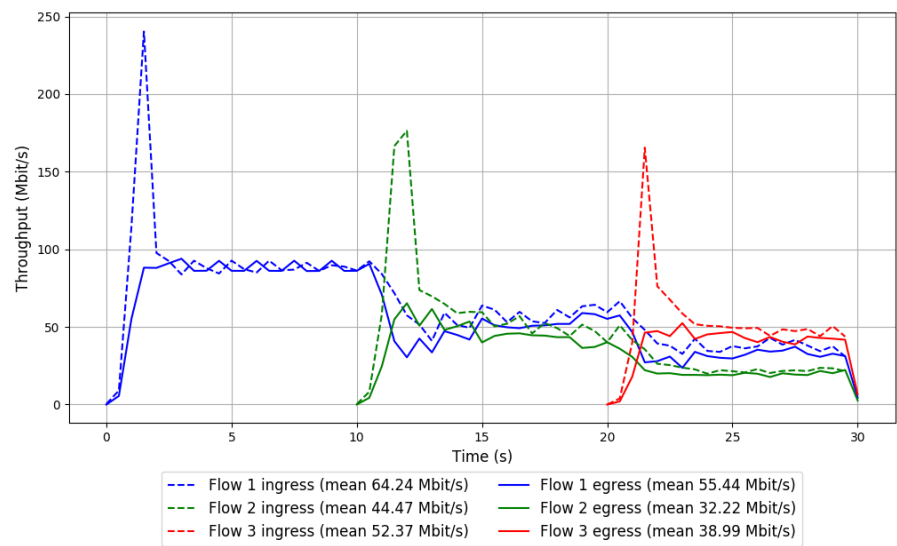


Run 8: Statistics of FillP

Start at: 2018-02-04 01:47:14
End at: 2018-02-04 01:47:44
Local clock offset: 0.151 ms
Remote clock offset: -1.634 ms

Below is generated by plot.py at 2018-02-04 03:25:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 128.009 ms
Loss rate: 19.18%
-- Flow 1:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 122.720 ms
Loss rate: 13.64%
-- Flow 2:
Average throughput: 32.22 Mbit/s
95th percentile per-packet one-way delay: 123.024 ms
Loss rate: 27.46%
-- Flow 3:
Average throughput: 38.99 Mbit/s
95th percentile per-packet one-way delay: 128.349 ms
Loss rate: 25.59%

Run 8: Report of FillP — Data Link

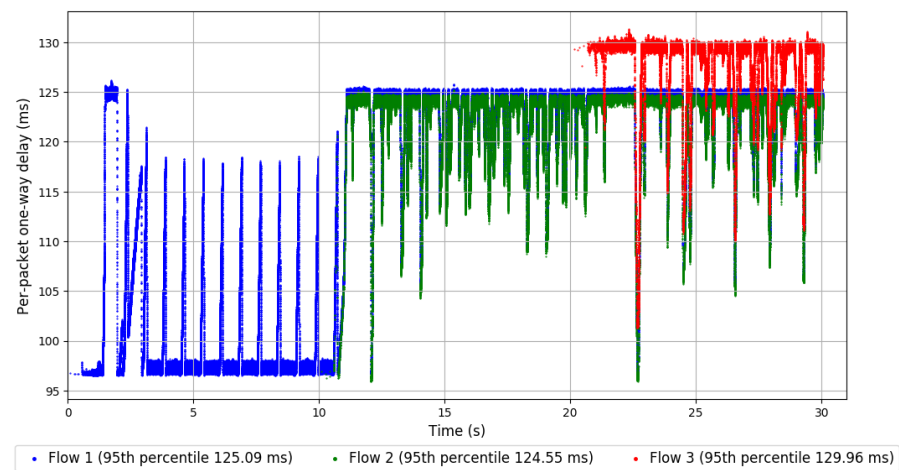
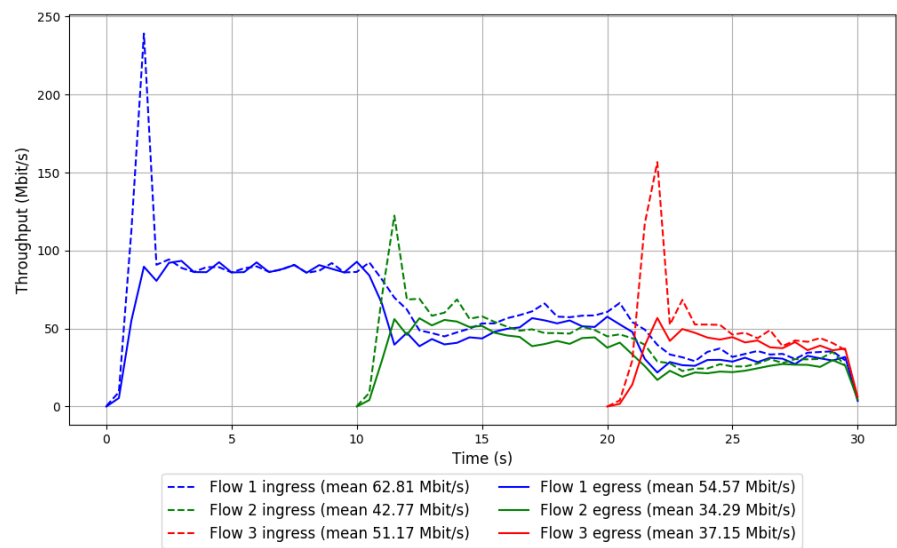


Run 9: Statistics of FillP

Start at: 2018-02-04 02:09:43
End at: 2018-02-04 02:10:13
Local clock offset: 0.064 ms
Remote clock offset: -1.425 ms

Below is generated by plot.py at 2018-02-04 03:26:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.69 Mbit/s
95th percentile per-packet one-way delay: 129.594 ms
Loss rate: 17.05%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 125.094 ms
Loss rate: 13.05%
-- Flow 2:
Average throughput: 34.29 Mbit/s
95th percentile per-packet one-way delay: 124.545 ms
Loss rate: 19.72%
-- Flow 3:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 129.964 ms
Loss rate: 27.42%

Run 9: Report of FillP — Data Link

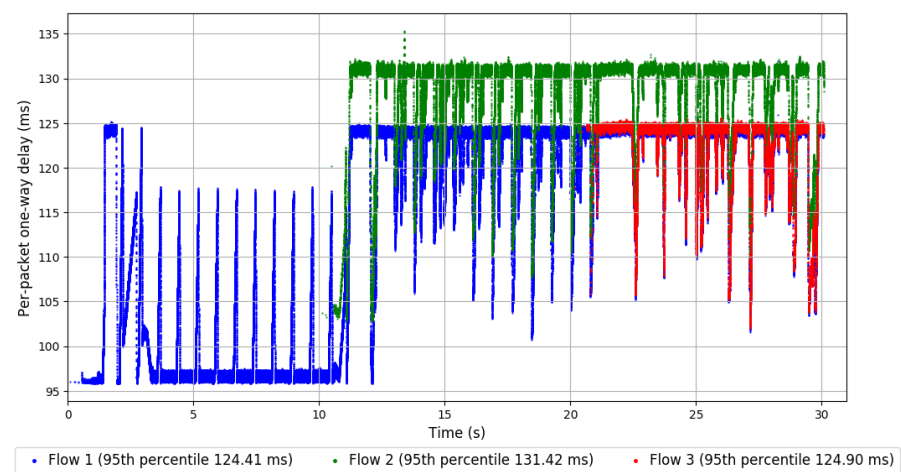
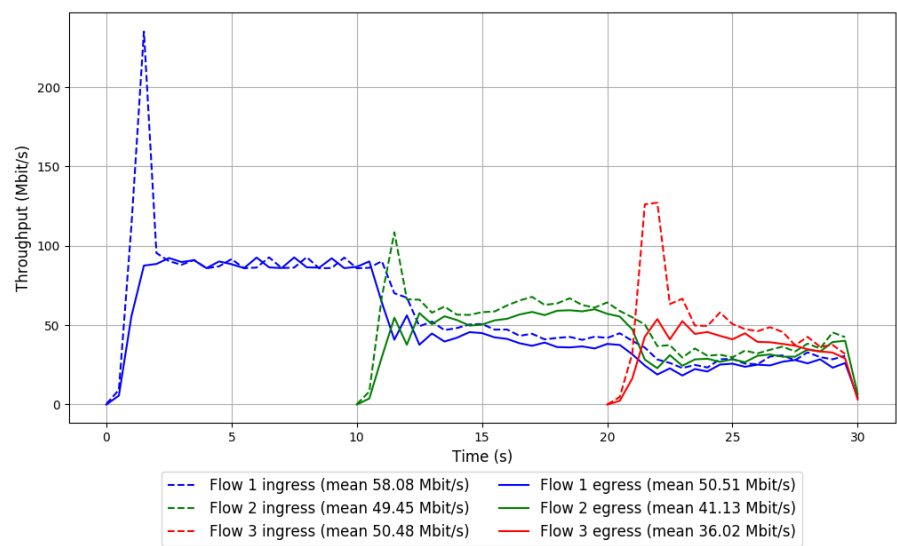


Run 10: Statistics of FillP

Start at: 2018-02-04 02:32:10
End at: 2018-02-04 02:32:40
Local clock offset: 0.018 ms
Remote clock offset: -1.299 ms

Below is generated by plot.py at 2018-02-04 03:26:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.82 Mbit/s
95th percentile per-packet one-way delay: 131.236 ms
Loss rate: 16.54%
-- Flow 1:
Average throughput: 50.51 Mbit/s
95th percentile per-packet one-way delay: 124.412 ms
Loss rate: 12.96%
-- Flow 2:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 131.420 ms
Loss rate: 16.72%
-- Flow 3:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 124.904 ms
Loss rate: 28.60%

Run 10: Report of FillP — Data Link

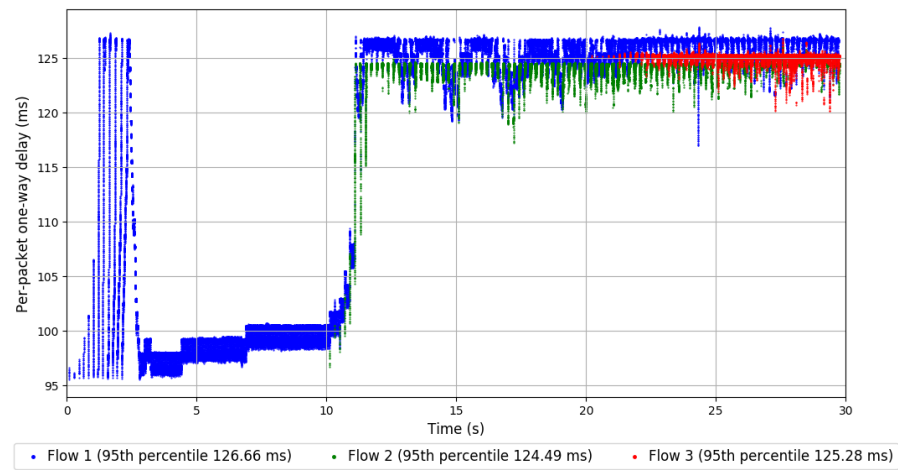
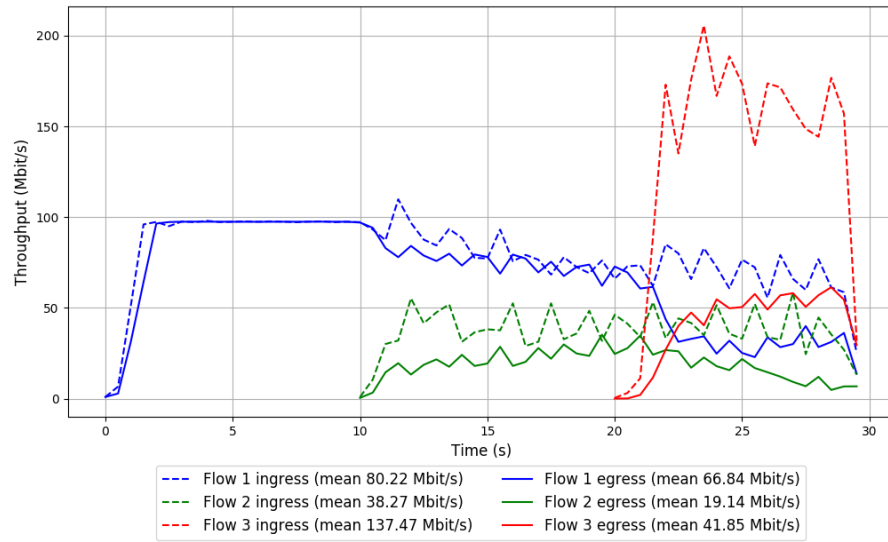


Run 1: Statistics of Indigo-1-32

Start at: 2018-02-03 23:04:28
End at: 2018-02-03 23:04:58
Local clock offset: -0.03 ms
Remote clock offset: -4.161 ms

Below is generated by plot.py at 2018-02-04 03:26:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 126.640 ms
Loss rate: 37.89%
-- Flow 1:
Average throughput: 66.84 Mbit/s
95th percentile per-packet one-way delay: 126.664 ms
Loss rate: 16.59%
-- Flow 2:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 124.494 ms
Loss rate: 49.91%
-- Flow 3:
Average throughput: 41.85 Mbit/s
95th percentile per-packet one-way delay: 125.283 ms
Loss rate: 69.56%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-03 23:26:57

End at: 2018-02-03 23:27:27

Local clock offset: -0.096 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2018-02-04 03:26:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 136.337 ms

Loss rate: 41.26%

-- Flow 1:

Average throughput: 59.77 Mbit/s

95th percentile per-packet one-way delay: 129.557 ms

Loss rate: 22.72%

-- Flow 2:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 132.807 ms

Loss rate: 45.53%

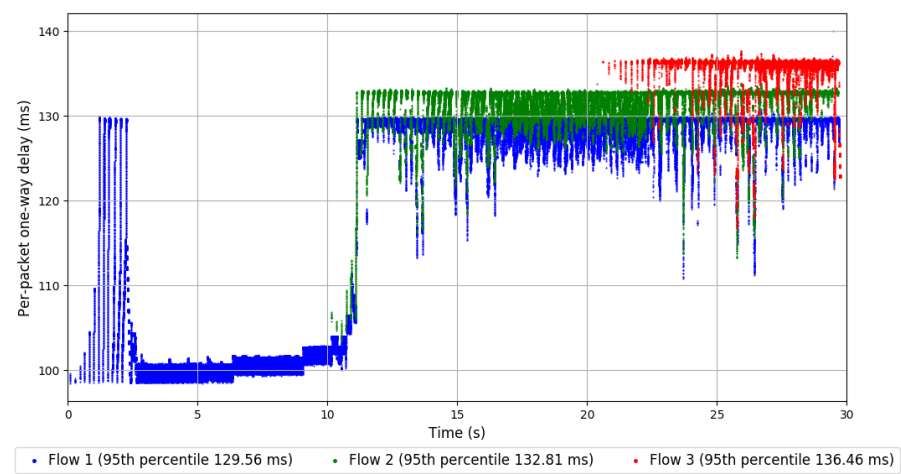
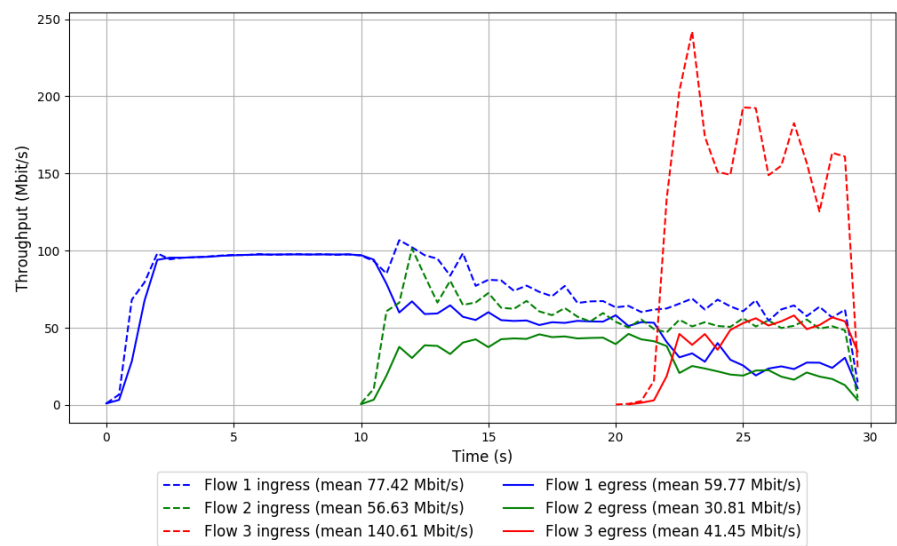
-- Flow 3:

Average throughput: 41.45 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 70.57%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-03 23:49:27

End at: 2018-02-03 23:49:57

Local clock offset: -0.013 ms

Remote clock offset: 1.592 ms

Below is generated by plot.py at 2018-02-04 03:26:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 138.701 ms

Loss rate: 34.27%

-- Flow 1:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 130.841 ms

Loss rate: 15.97%

-- Flow 2:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 130.739 ms

Loss rate: 45.93%

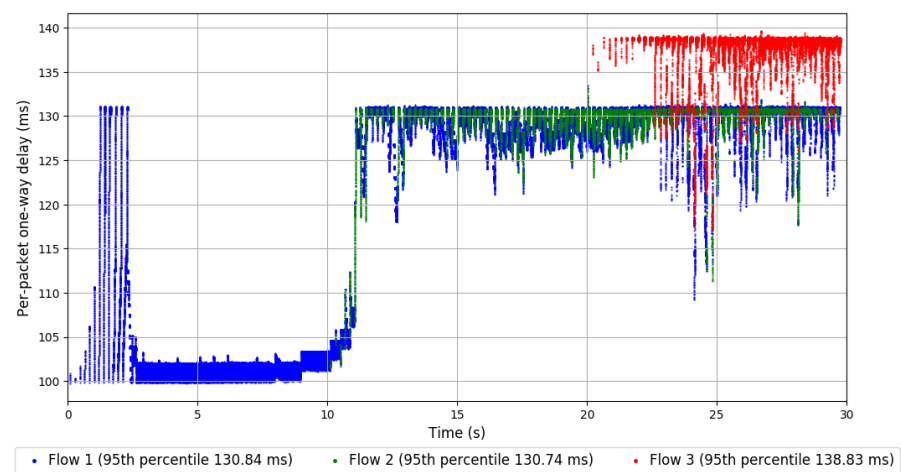
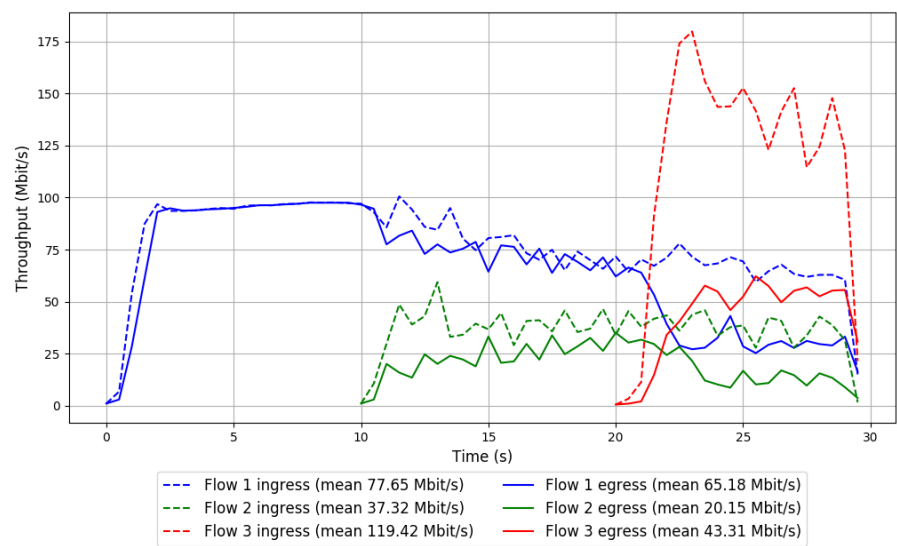
-- Flow 3:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 138.831 ms

Loss rate: 63.74%

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

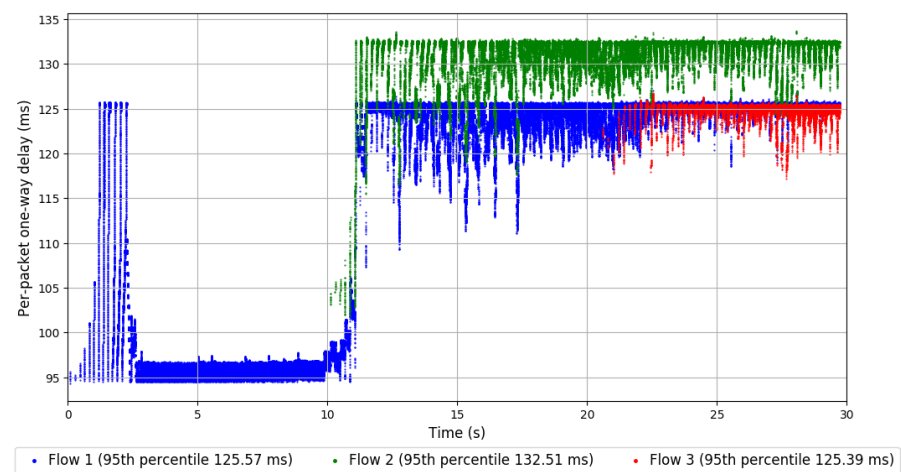
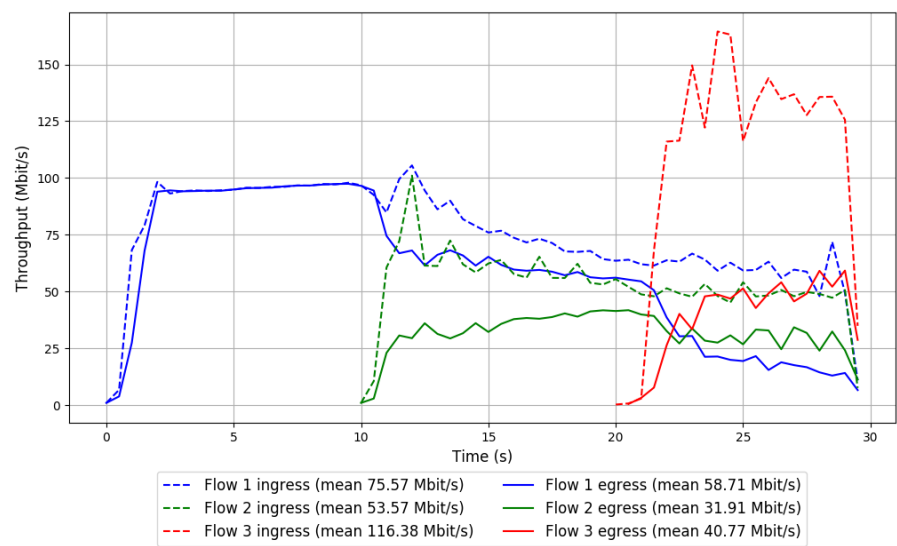


Run 4: Statistics of Indigo-1-32

Start at: 2018-02-04 00:11:59
End at: 2018-02-04 00:12:29
Local clock offset: 0.133 ms
Remote clock offset: -2.891 ms

Below is generated by plot.py at 2018-02-04 03:26:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 132.346 ms
Loss rate: 37.05%
-- Flow 1:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 125.570 ms
Loss rate: 22.23%
-- Flow 2:
Average throughput: 31.91 Mbit/s
95th percentile per-packet one-way delay: 132.508 ms
Loss rate: 40.35%
-- Flow 3:
Average throughput: 40.77 Mbit/s
95th percentile per-packet one-way delay: 125.394 ms
Loss rate: 64.95%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-04 00:34:28

End at: 2018-02-04 00:34:58

Local clock offset: 0.064 ms

Remote clock offset: 2.32 ms

Below is generated by plot.py at 2018-02-04 03:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 135.358 ms

Loss rate: 35.39%

-- Flow 1:

Average throughput: 61.33 Mbit/s

95th percentile per-packet one-way delay: 131.758 ms

Loss rate: 19.35%

-- Flow 2:

Average throughput: 25.92 Mbit/s

95th percentile per-packet one-way delay: 135.645 ms

Loss rate: 39.83%

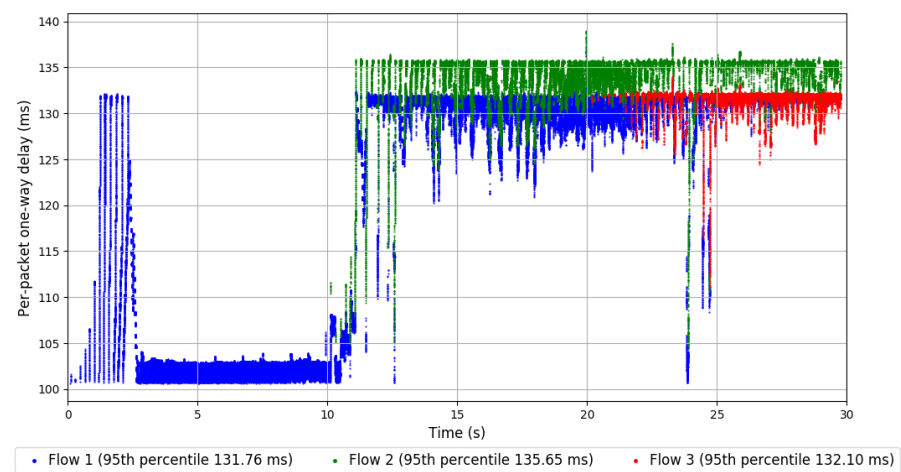
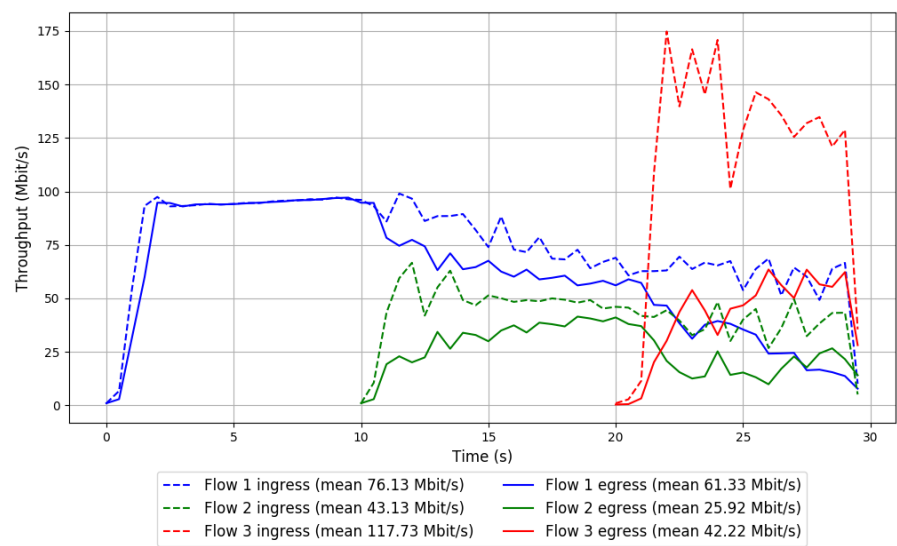
-- Flow 3:

Average throughput: 42.22 Mbit/s

95th percentile per-packet one-way delay: 132.100 ms

Loss rate: 64.14%

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

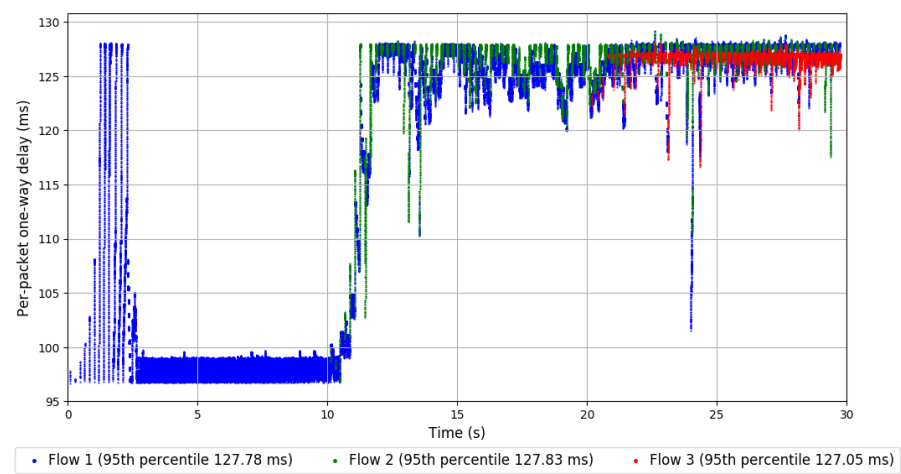
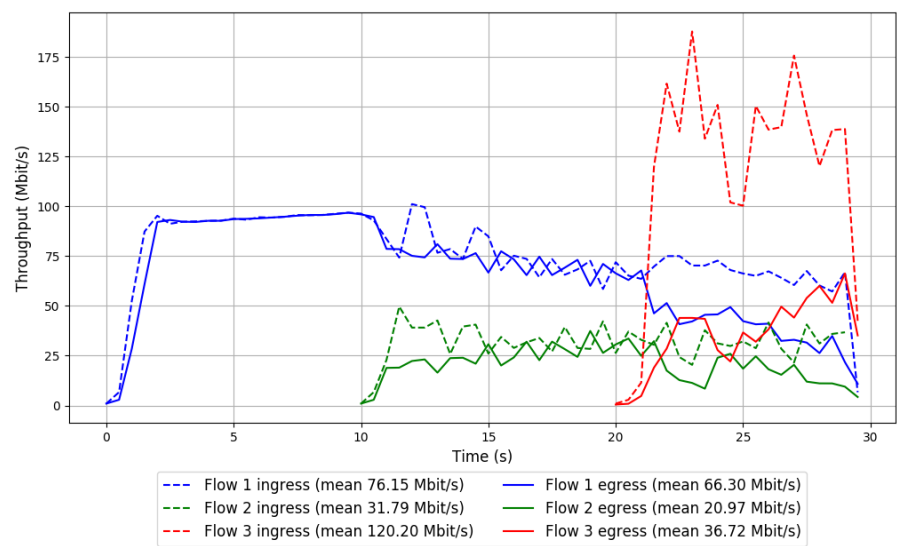


Run 6: Statistics of Indigo-1-32

Start at: 2018-02-04 00:56:57
End at: 2018-02-04 00:57:27
Local clock offset: 0.054 ms
Remote clock offset: -2.067 ms

Below is generated by plot.py at 2018-02-04 03:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 127.784 ms
Loss rate: 32.26%
-- Flow 1:
Average throughput: 66.30 Mbit/s
95th percentile per-packet one-way delay: 127.785 ms
Loss rate: 12.84%
-- Flow 2:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 127.831 ms
Loss rate: 33.95%
-- Flow 3:
Average throughput: 36.72 Mbit/s
95th percentile per-packet one-way delay: 127.046 ms
Loss rate: 69.43%

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

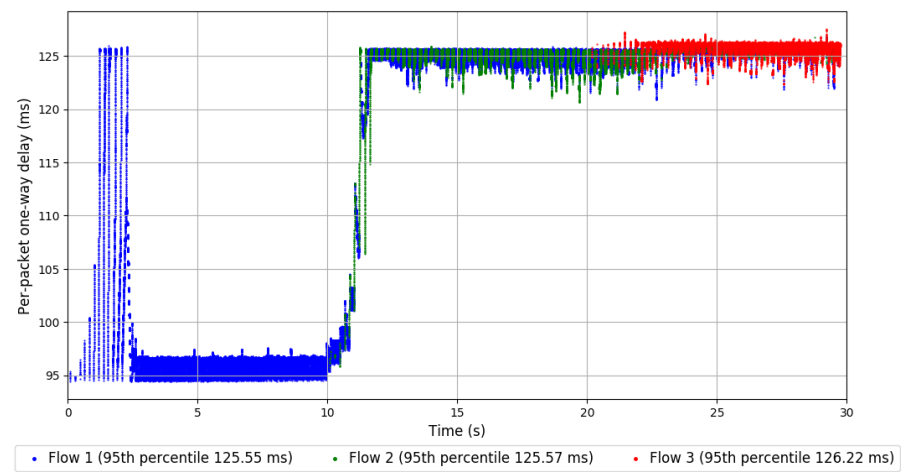
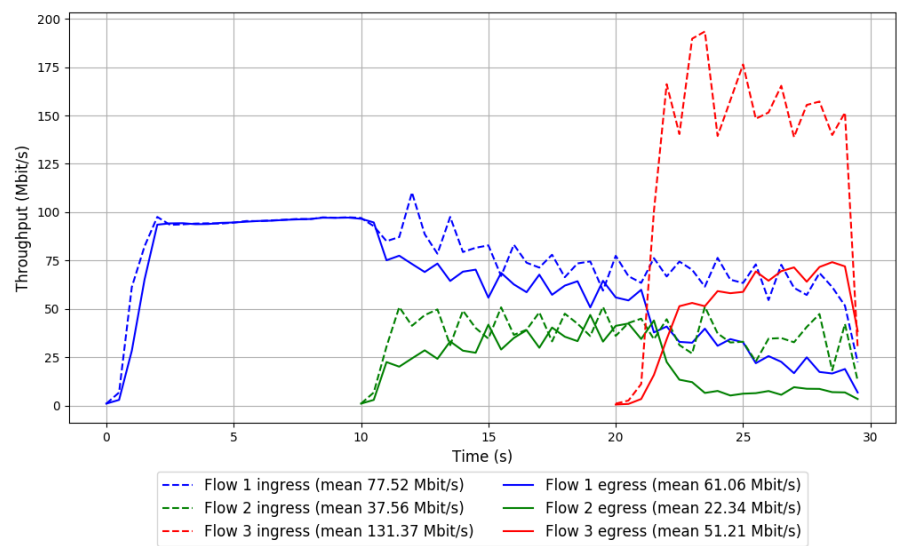


Run 7: Statistics of Indigo-1-32

Start at: 2018-02-04 01:19:25
End at: 2018-02-04 01:19:55
Local clock offset: -0.019 ms
Remote clock offset: -1.912 ms

Below is generated by plot.py at 2018-02-04 03:26:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: 126.107 ms
Loss rate: 36.15%
-- Flow 1:
Average throughput: 61.06 Mbit/s
95th percentile per-packet one-way delay: 125.551 ms
Loss rate: 21.15%
-- Flow 2:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 125.574 ms
Loss rate: 40.42%
-- Flow 3:
Average throughput: 51.21 Mbit/s
95th percentile per-packet one-way delay: 126.216 ms
Loss rate: 61.01%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-04 01:41:53

End at: 2018-02-04 01:42:23

Local clock offset: 0.157 ms

Remote clock offset: 3.923 ms

Below is generated by plot.py at 2018-02-04 03:27:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 137.944 ms

Loss rate: 40.70%

-- Flow 1:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 137.867 ms

Loss rate: 22.21%

-- Flow 2:

Average throughput: 21.27 Mbit/s

95th percentile per-packet one-way delay: 138.106 ms

Loss rate: 39.74%

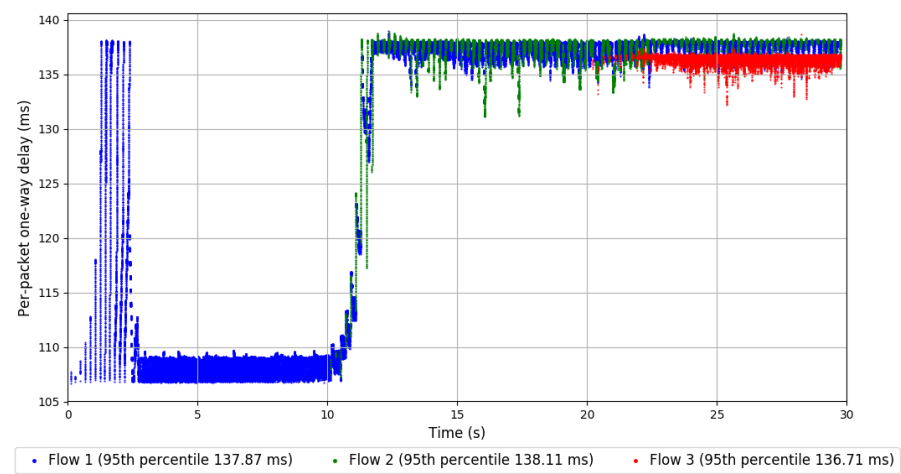
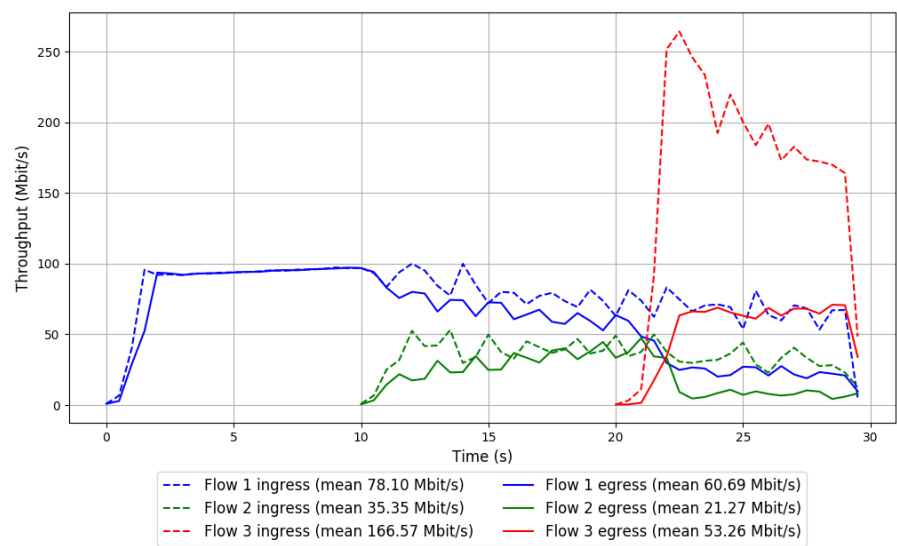
-- Flow 3:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 68.02%

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



Run 9: Statistics of Indigo-1-32

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

End at: 2018-02-04 02:04:51

Local clock offset: 0.038 ms

Remote clock offset: 4.293 ms

Below is generated by plot.py at 2018-02-04 03:27:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 132.110 ms

Loss rate: 32.84%

-- Flow 1:

Average throughput: 66.49 Mbit/s

95th percentile per-packet one-way delay: 131.532 ms

Loss rate: 14.28%

-- Flow 2:

Average throughput: 19.30 Mbit/s

95th percentile per-packet one-way delay: 131.085 ms

Loss rate: 44.23%

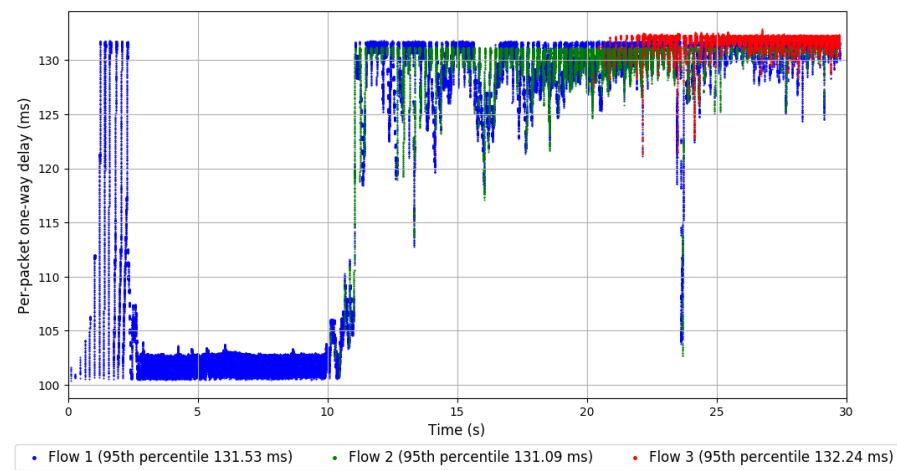
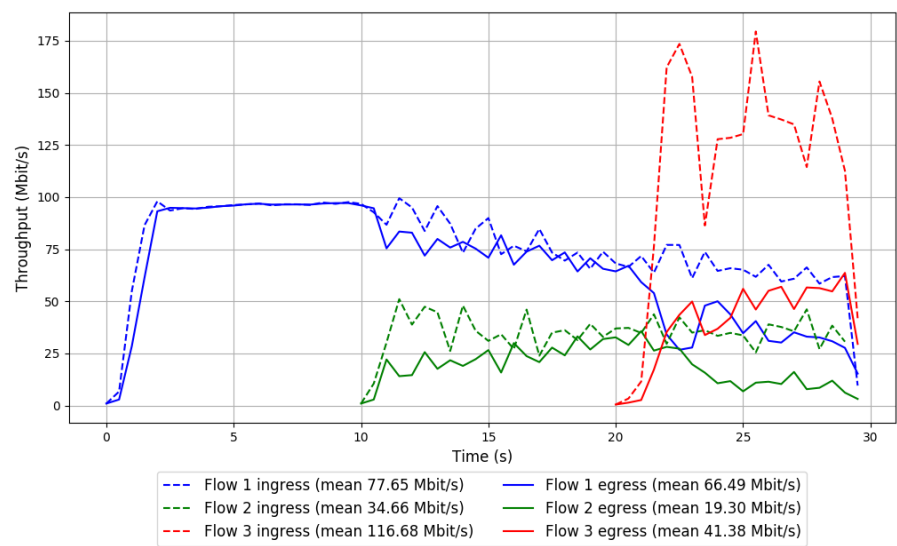
-- Flow 3:

Average throughput: 41.38 Mbit/s

95th percentile per-packet one-way delay: 132.235 ms

Loss rate: 64.52%

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

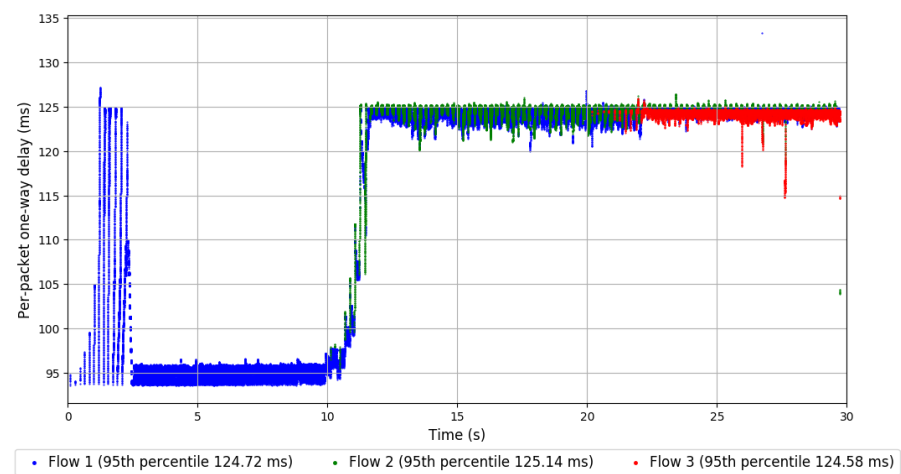
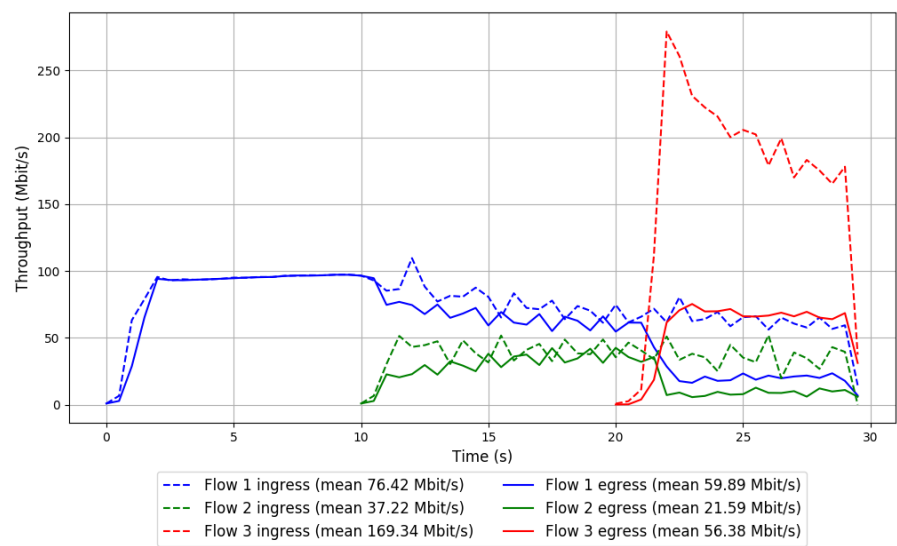


Run 10: Statistics of Indigo-1-32

Start at: 2018-02-04 02:26:48
End at: 2018-02-04 02:27:18
Local clock offset: 0.016 ms
Remote clock offset: -2.099 ms

Below is generated by plot.py at 2018-02-04 03:27:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 124.976 ms
Loss rate: 40.63%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 124.722 ms
Loss rate: 21.55%
-- Flow 2:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 125.138 ms
Loss rate: 41.95%
-- Flow 3:
Average throughput: 56.38 Mbit/s
95th percentile per-packet one-way delay: 124.576 ms
Loss rate: 66.74%

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

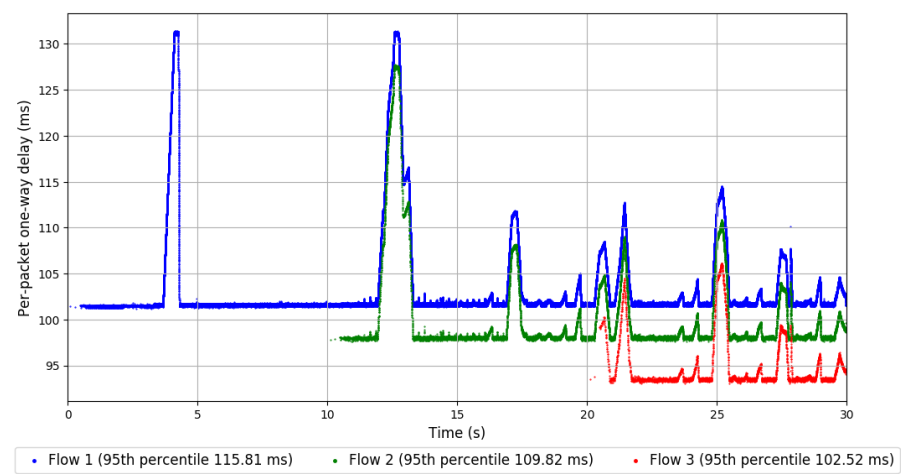
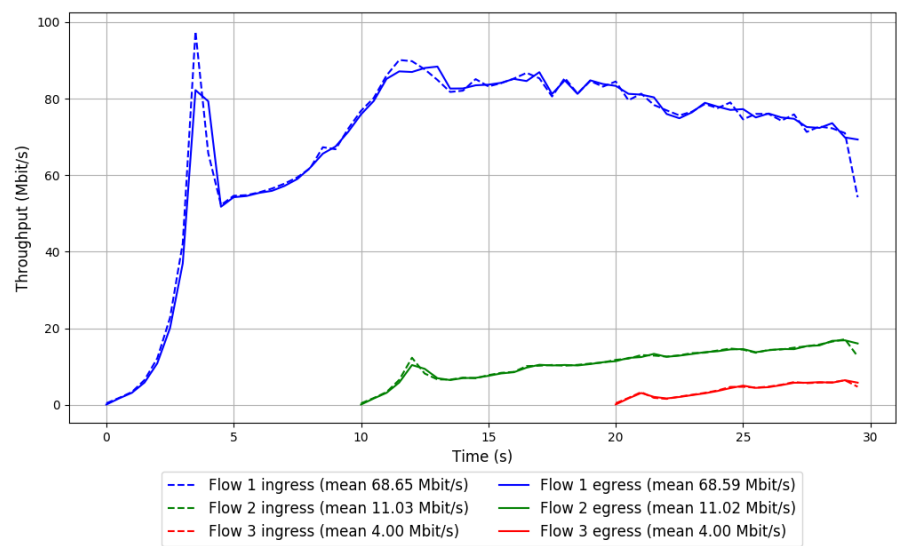


Run 1: Statistics of Vivace-latency

Start at: 2018-02-03 23:07:06
End at: 2018-02-03 23:07:36
Local clock offset: -0.023 ms
Remote clock offset: -3.318 ms

Below is generated by plot.py at 2018-02-04 03:27:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 115.331 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 68.59 Mbit/s
95th percentile per-packet one-way delay: 115.807 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 109.816 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 102.519 ms
Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link

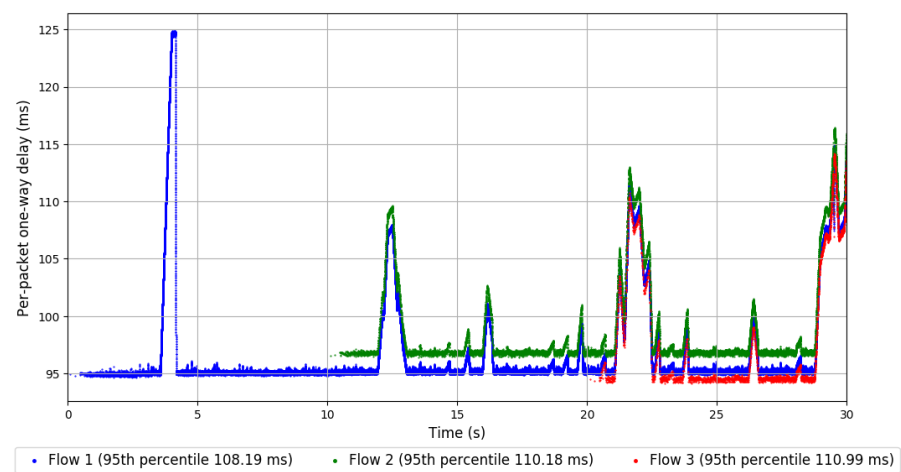
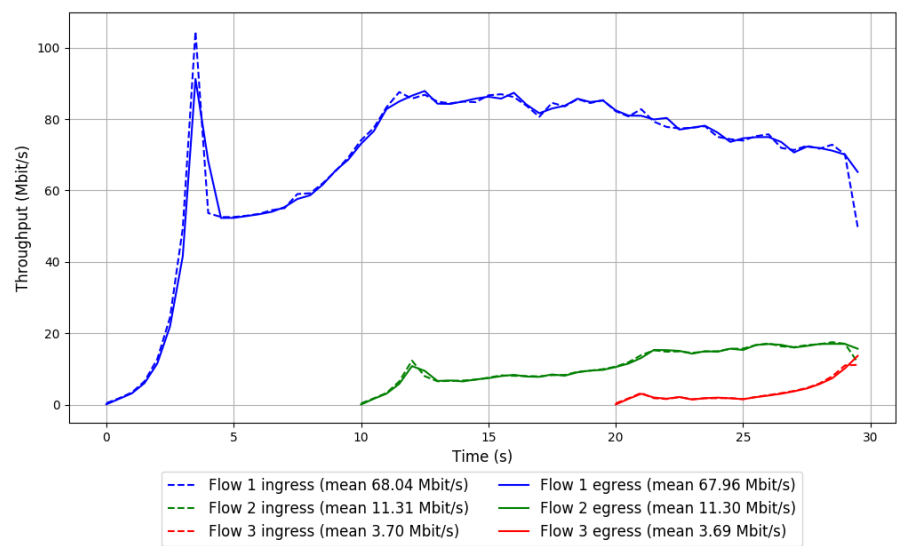


Run 2: Statistics of Vivace-latency

Start at: 2018-02-03 23:29:36
End at: 2018-02-03 23:30:06
Local clock offset: -0.084 ms
Remote clock offset: -3.358 ms

Below is generated by plot.py at 2018-02-04 03:27:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 108.747 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 67.96 Mbit/s
95th percentile per-packet one-way delay: 108.185 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 110.182 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 110.988 ms
Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link

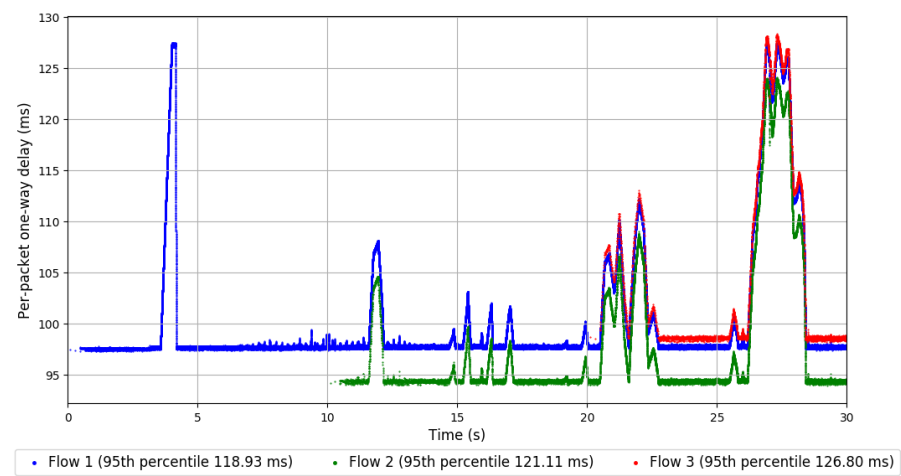
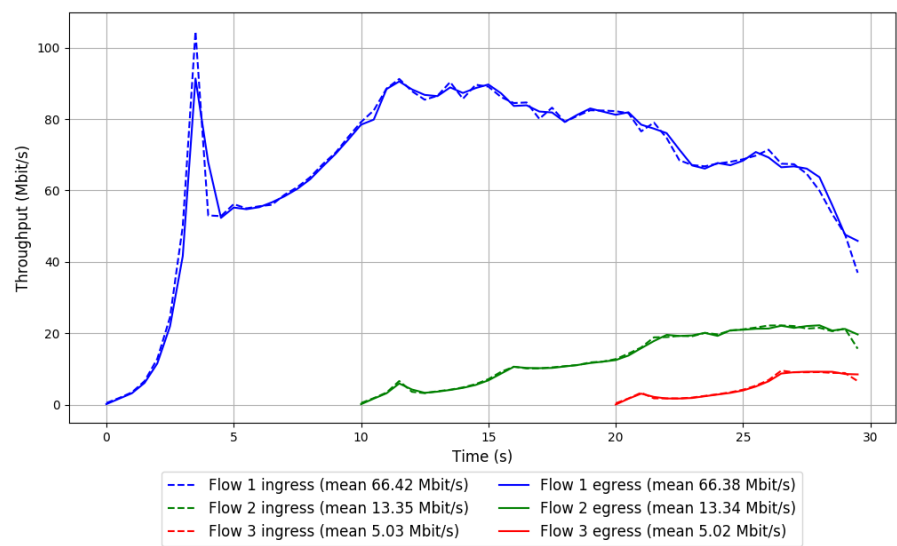


Run 3: Statistics of Vivace-latency

Start at: 2018-02-03 23:52:06
End at: 2018-02-03 23:52:36
Local clock offset: 0.075 ms
Remote clock offset: -3.265 ms

Below is generated by plot.py at 2018-02-04 03:27:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.90 Mbit/s
95th percentile per-packet one-way delay: 121.061 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 66.38 Mbit/s
95th percentile per-packet one-way delay: 118.930 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 121.107 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 126.795 ms
Loss rate: 0.21%

Run 3: Report of Vivace-latency — Data Link

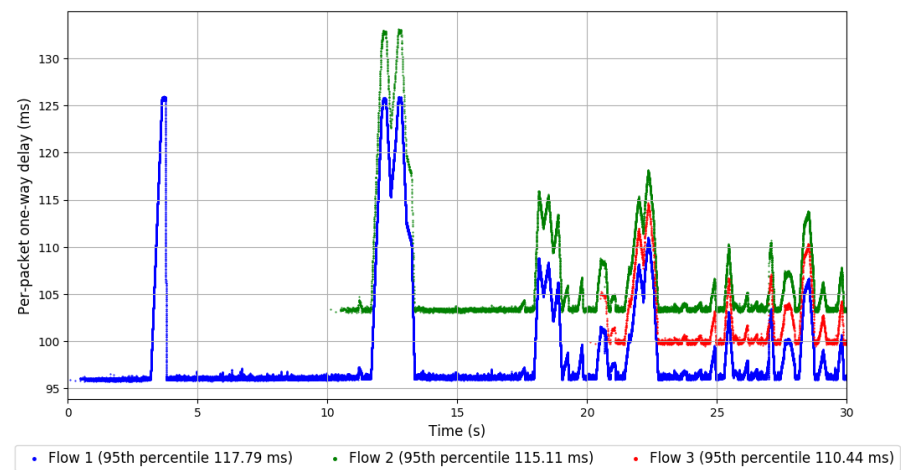
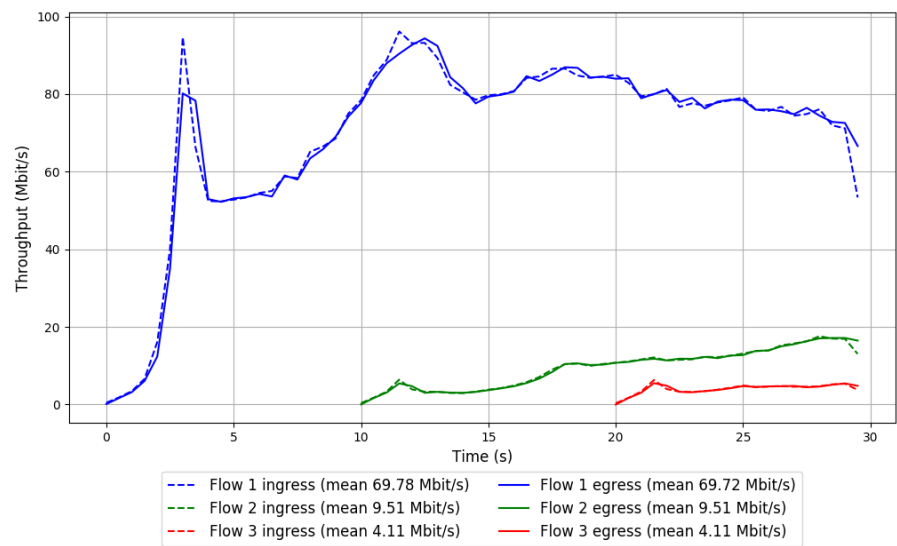


Run 4: Statistics of Vivace-latency

Start at: 2018-02-04 00:14:37
End at: 2018-02-04 00:15:07
Local clock offset: 0.125 ms
Remote clock offset: -2.871 ms

Below is generated by plot.py at 2018-02-04 03:27:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.38 Mbit/s
95th percentile per-packet one-way delay: 117.171 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 117.791 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 115.105 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 110.437 ms
Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-04 00:37:06

End at: 2018-02-04 00:37:36

Local clock offset: 0.076 ms

Remote clock offset: 1.523 ms

Below is generated by plot.py at 2018-02-04 03:28:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.64 Mbit/s

95th percentile per-packet one-way delay: 129.416 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 65.78 Mbit/s

95th percentile per-packet one-way delay: 129.592 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 14.06 Mbit/s

95th percentile per-packet one-way delay: 128.148 ms

Loss rate: 0.50%

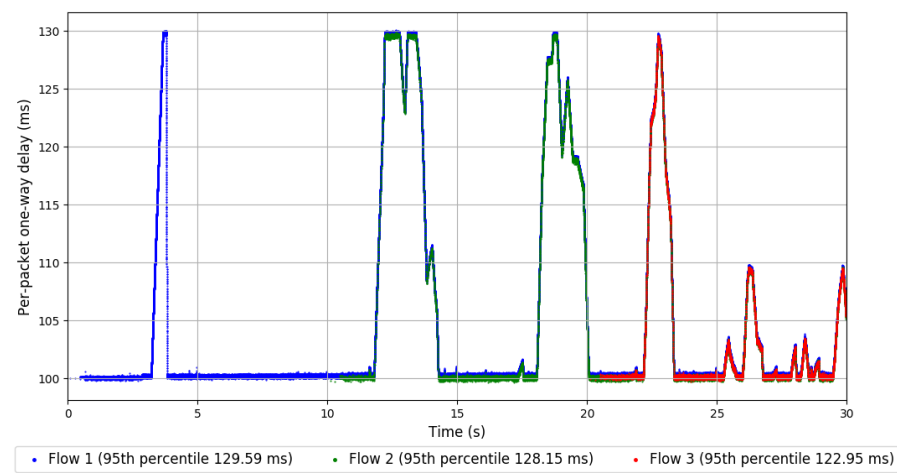
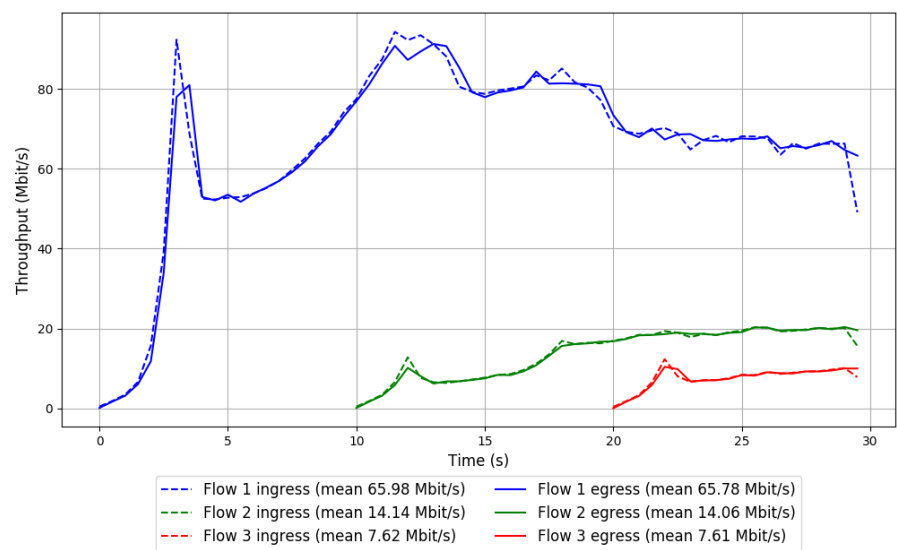
-- Flow 3:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 122.954 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-04 00:59:35

End at: 2018-02-04 01:00:05

Local clock offset: 0.052 ms

Remote clock offset: 2.833 ms

Below is generated by plot.py at 2018-02-04 03:28:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 128.780 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 61.99 Mbit/s

95th percentile per-packet one-way delay: 128.682 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 16.75 Mbit/s

95th percentile per-packet one-way delay: 136.012 ms

Loss rate: 1.07%

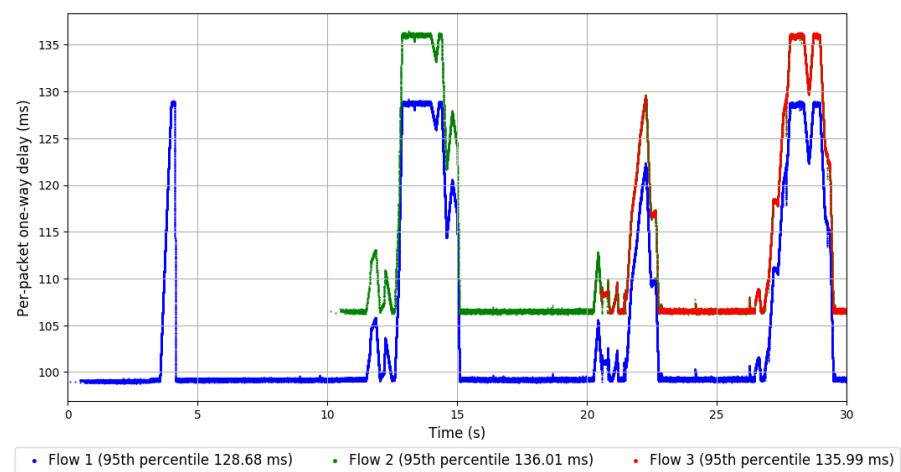
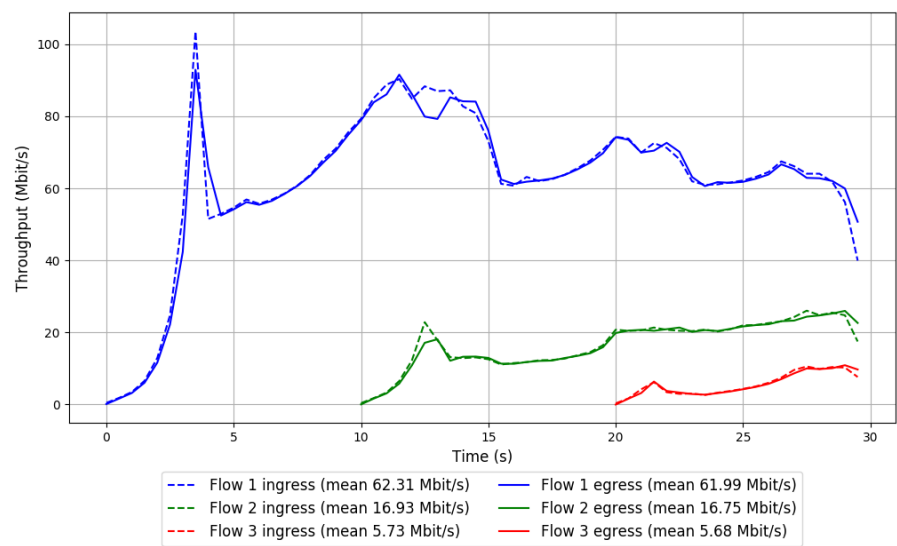
-- Flow 3:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 135.989 ms

Loss rate: 0.78%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-04 01:22:03

End at: 2018-02-04 01:22:33

Local clock offset: 0.072 ms

Remote clock offset: 2.986 ms

Below is generated by plot.py at 2018-02-04 03:28:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 128.914 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 65.59 Mbit/s

95th percentile per-packet one-way delay: 129.709 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 123.285 ms

Loss rate: 0.37%

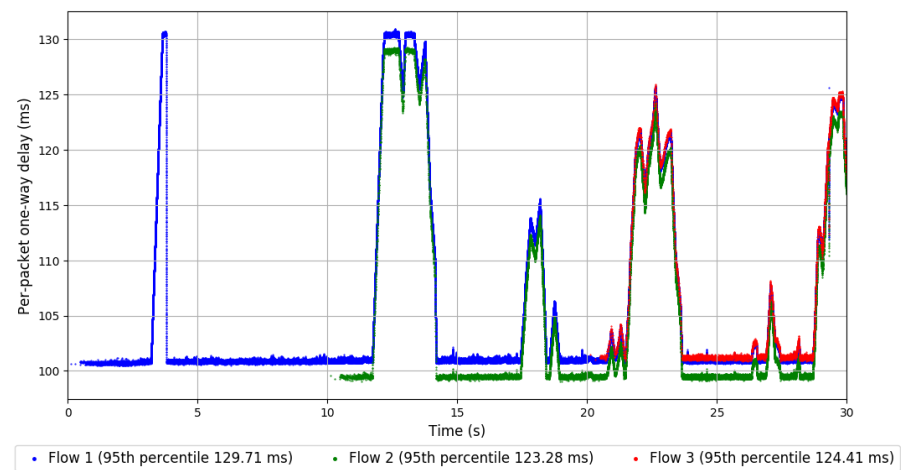
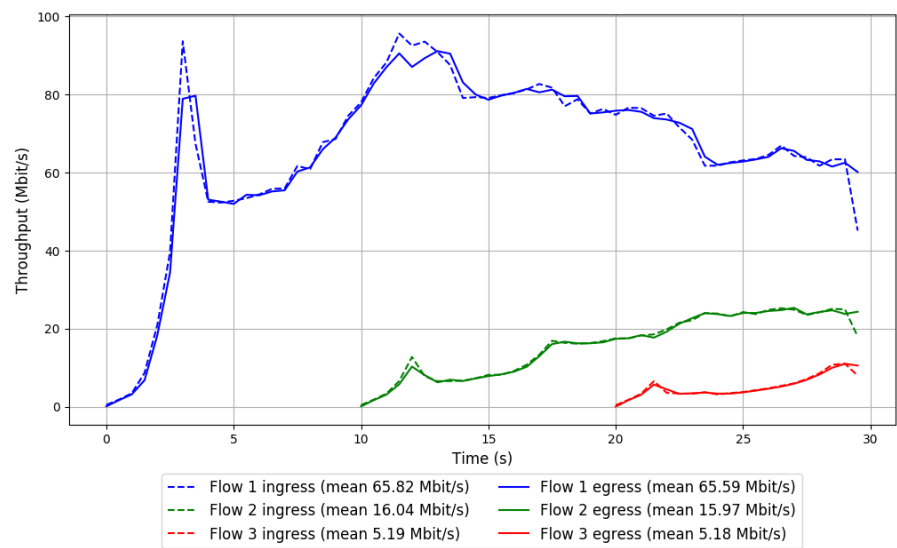
-- Flow 3:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 124.413 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-04 01:44:32

End at: 2018-02-04 01:45:02

Local clock offset: 0.06 ms

Remote clock offset: 3.223 ms

Below is generated by plot.py at 2018-02-04 03:28:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.98 Mbit/s

95th percentile per-packet one-way delay: 128.819 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 128.728 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 27.95 Mbit/s

95th percentile per-packet one-way delay: 129.554 ms

Loss rate: 1.32%

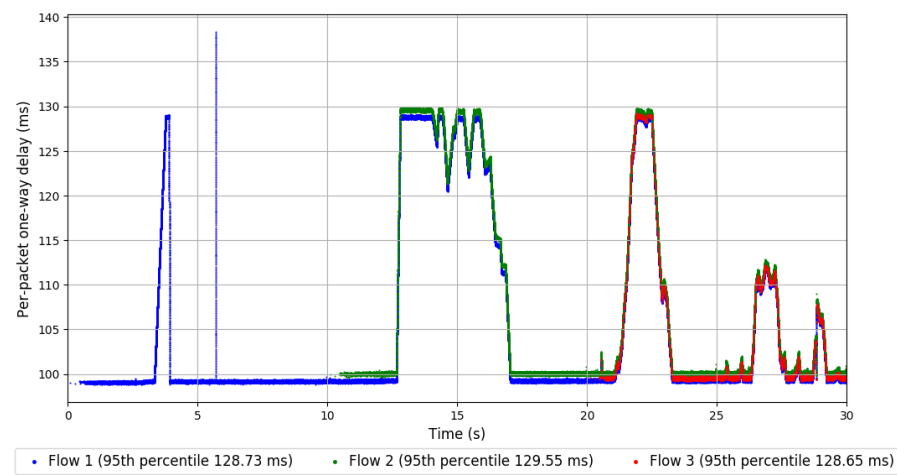
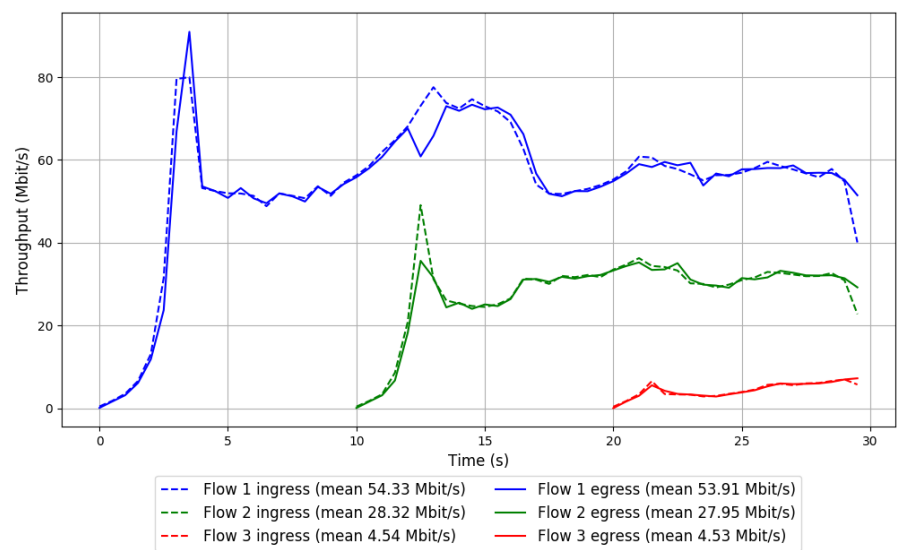
-- Flow 3:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 128.646 ms

Loss rate: 0.19%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-04 02:07:00

End at: 2018-02-04 02:07:30

Local clock offset: 0.069 ms

Remote clock offset: -1.48 ms

Below is generated by plot.py at 2018-02-04 03:28:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.67 Mbit/s

95th percentile per-packet one-way delay: 125.839 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 125.828 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 14.26 Mbit/s

95th percentile per-packet one-way delay: 126.290 ms

Loss rate: 1.30%

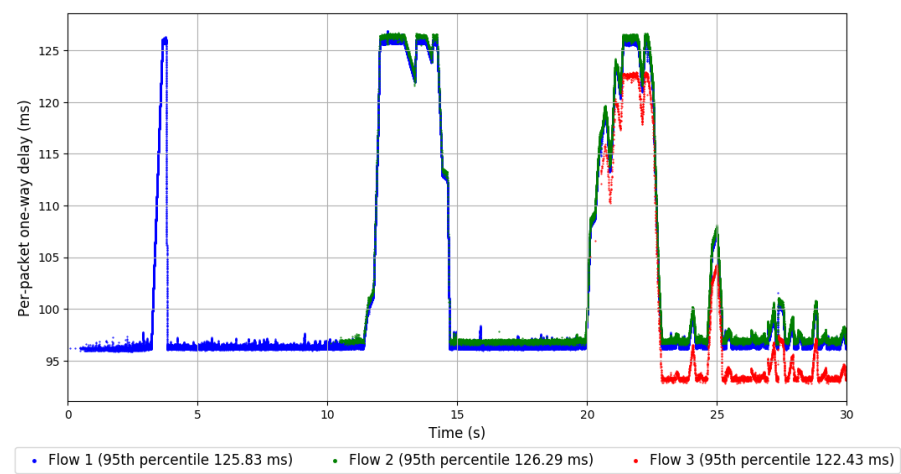
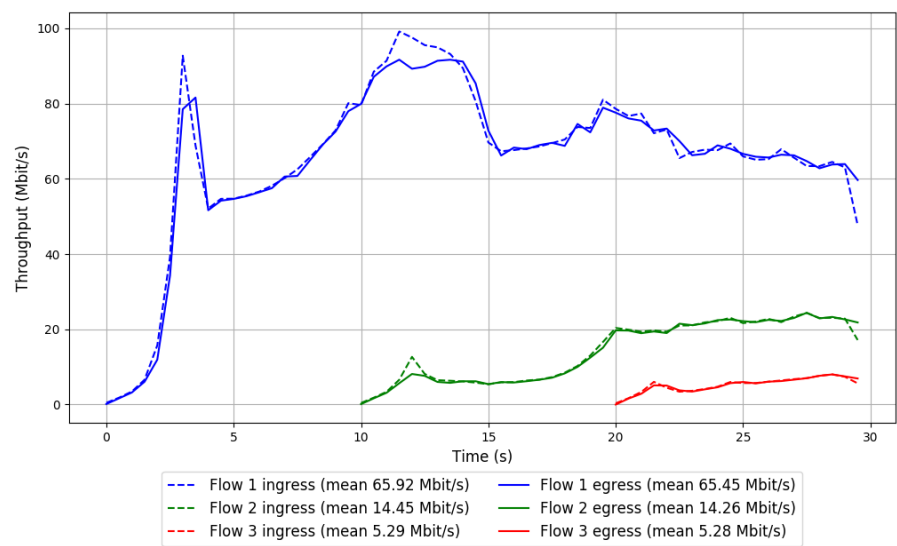
-- Flow 3:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 122.426 ms

Loss rate: 0.36%

Run 9: Report of Vivace-latency — Data Link

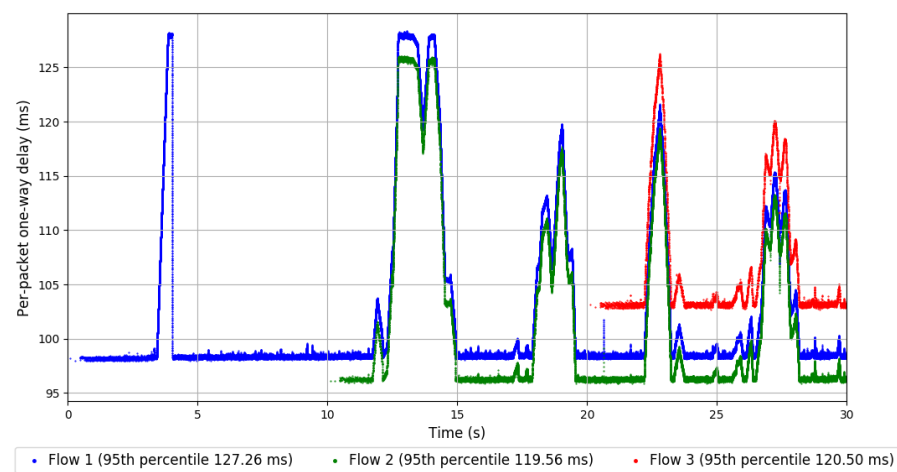
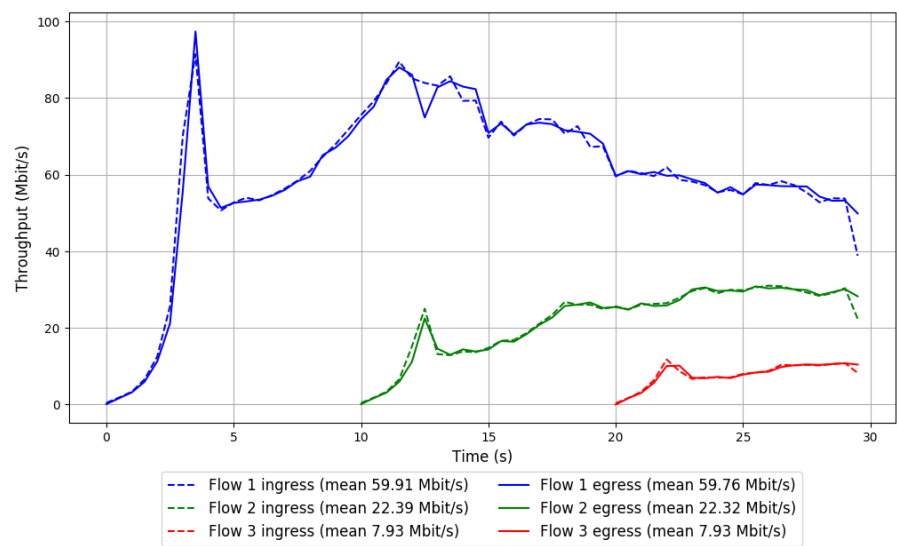


Run 10: Statistics of Vivace-latency

Start at: 2018-02-04 02:29:27
End at: 2018-02-04 02:29:57
Local clock offset: 0.02 ms
Remote clock offset: -1.332 ms

Below is generated by plot.py at 2018-02-04 03:28:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.21 Mbit/s
95th percentile per-packet one-way delay: 125.671 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 59.76 Mbit/s
95th percentile per-packet one-way delay: 127.261 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 22.32 Mbit/s
95th percentile per-packet one-way delay: 119.556 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 120.496 ms
Loss rate: 0.03%

Run 10: Report of Vivace-latency — Data Link

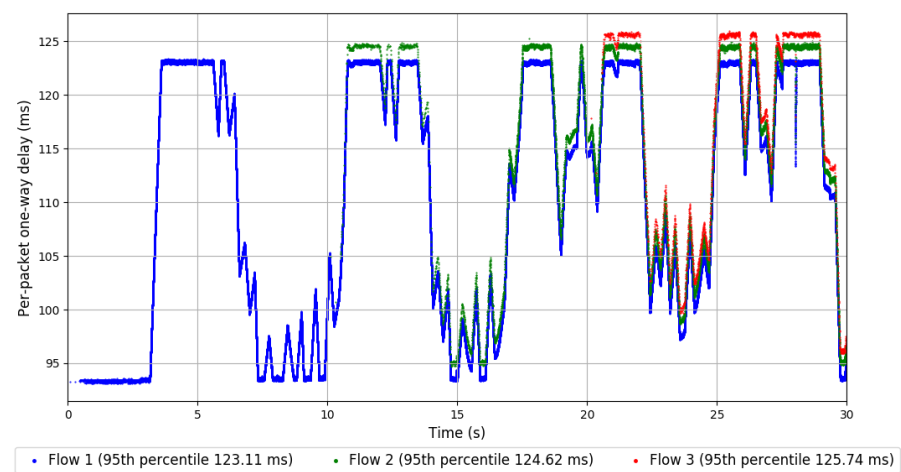
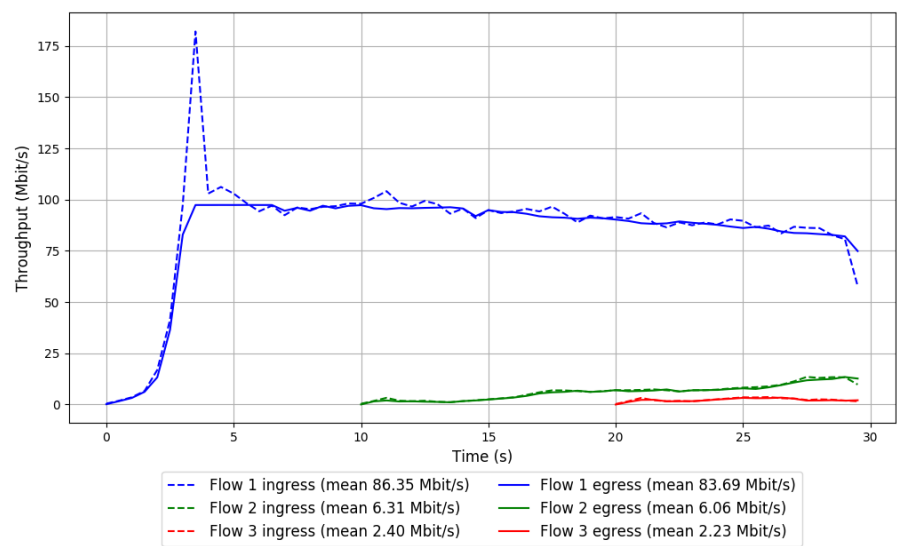


Run 1: Statistics of Vivace-loss

Start at: 2018-02-03 22:55:19
End at: 2018-02-03 22:55:49
Local clock offset: -0.048 ms
Remote clock offset: -3.236 ms

Below is generated by plot.py at 2018-02-04 03:29:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.45 Mbit/s
95th percentile per-packet one-way delay: 123.141 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 123.111 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 124.618 ms
Loss rate: 4.08%
-- Flow 3:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 125.736 ms
Loss rate: 7.33%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-03 23:17:50

End at: 2018-02-03 23:18:20

Local clock offset: -0.065 ms

Remote clock offset: 1.501 ms

Below is generated by plot.py at 2018-02-04 03:29:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.01 Mbit/s

95th percentile per-packet one-way delay: 132.578 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 132.582 ms

Loss rate: 2.94%

-- Flow 2:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 130.601 ms

Loss rate: 3.45%

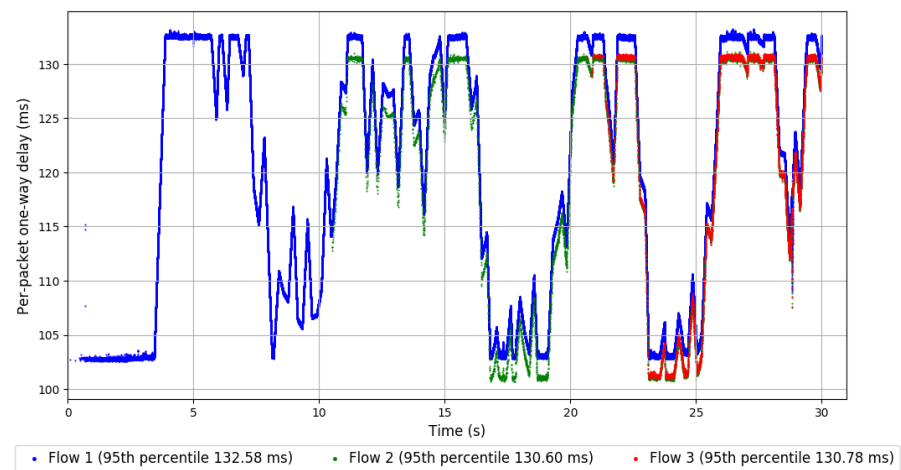
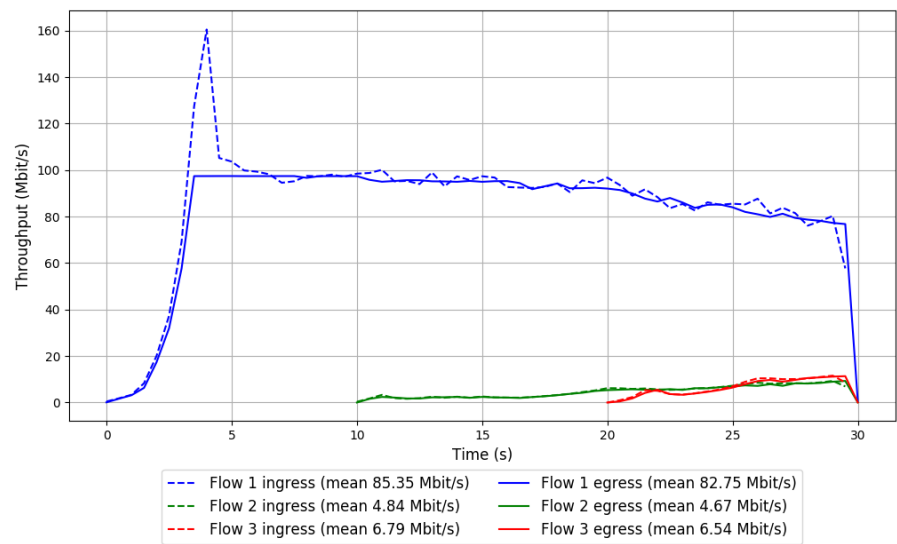
-- Flow 3:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 130.780 ms

Loss rate: 3.71%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-03 23:40:20

End at: 2018-02-03 23:40:50

Local clock offset: 0.02 ms

Remote clock offset: 2.305 ms

Below is generated by plot.py at 2018-02-04 03:29:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 131.550 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 83.87 Mbit/s

95th percentile per-packet one-way delay: 131.554 ms

Loss rate: 2.73%

-- Flow 2:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 128.415 ms

Loss rate: 2.44%

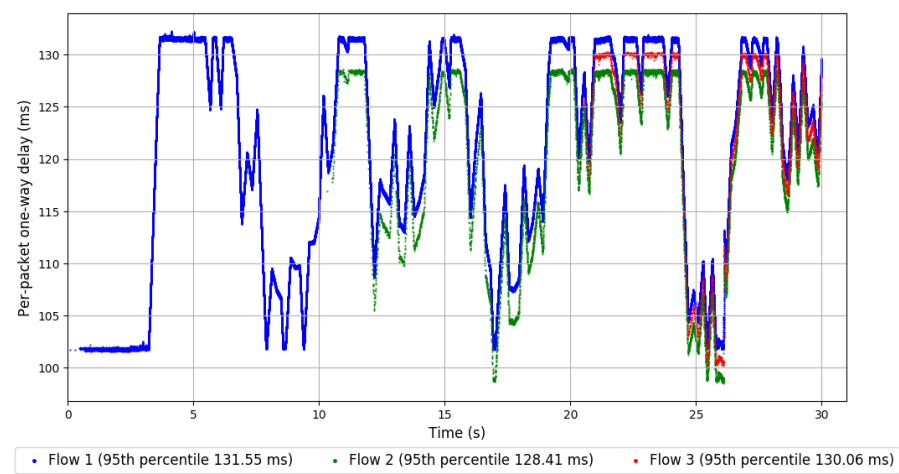
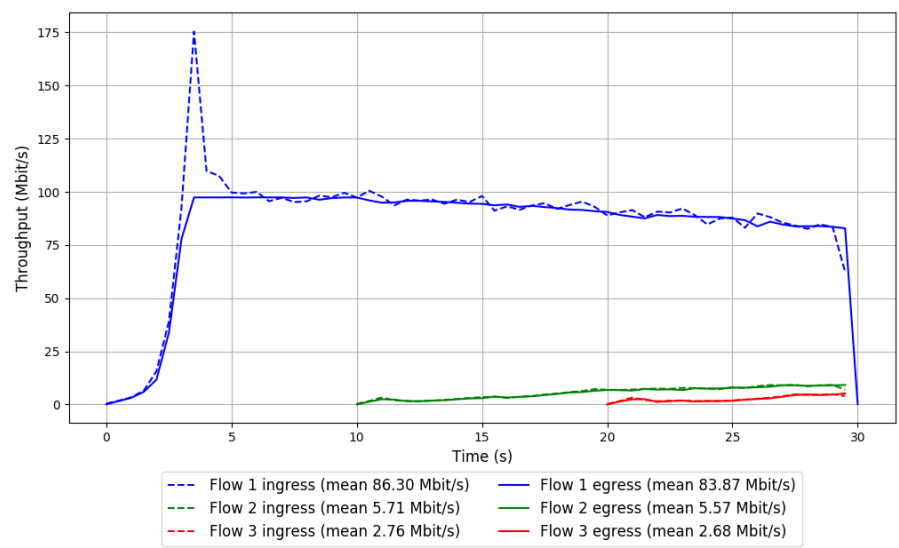
-- Flow 3:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 130.063 ms

Loss rate: 2.91%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-04 00:02:51

End at: 2018-02-04 00:03:21

Local clock offset: 0.128 ms

Remote clock offset: 2.614 ms

Below is generated by plot.py at 2018-02-04 03:29:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 136.740 ms

Loss rate: 3.06%

-- Flow 1:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 136.712 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 138.511 ms

Loss rate: 4.12%

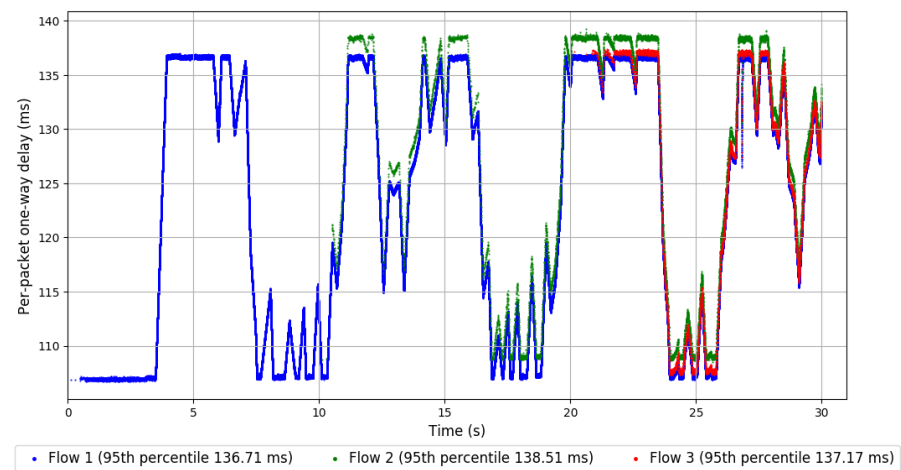
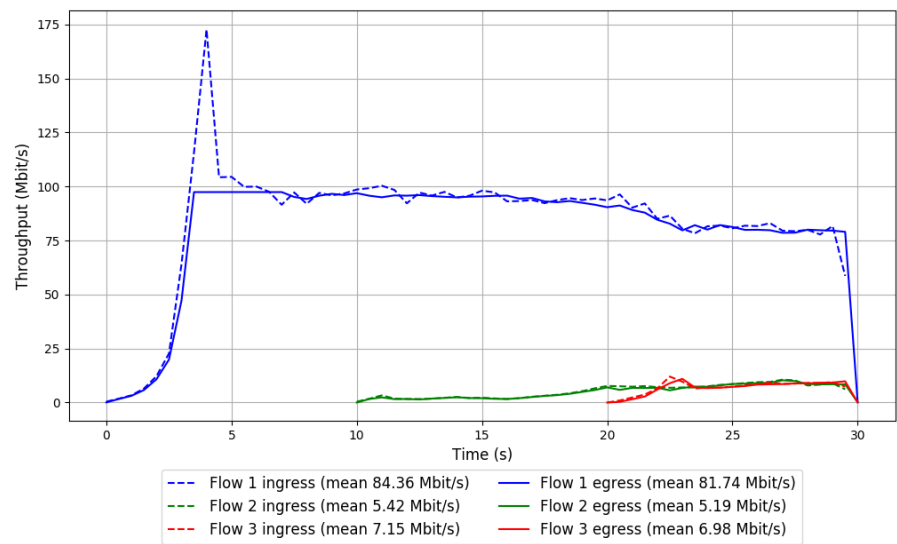
-- Flow 3:

Average throughput: 6.98 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 2.48%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-04 00:25:20

End at: 2018-02-04 00:25:50

Local clock offset: 0.086 ms

Remote clock offset: 3.042 ms

Below is generated by plot.py at 2018-02-04 03:29:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.05 Mbit/s

95th percentile per-packet one-way delay: 128.853 ms

Loss rate: 3.18%

-- Flow 1:

Average throughput: 82.72 Mbit/s

95th percentile per-packet one-way delay: 128.781 ms

Loss rate: 3.15%

-- Flow 2:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 136.355 ms

Loss rate: 3.30%

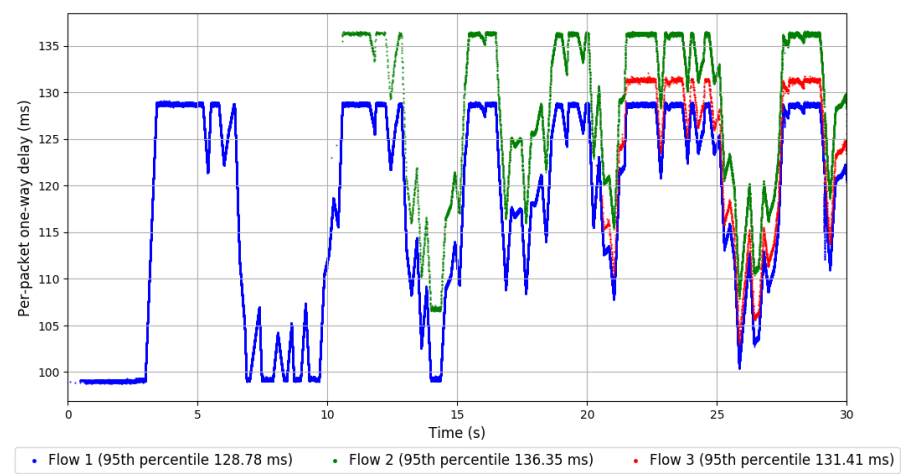
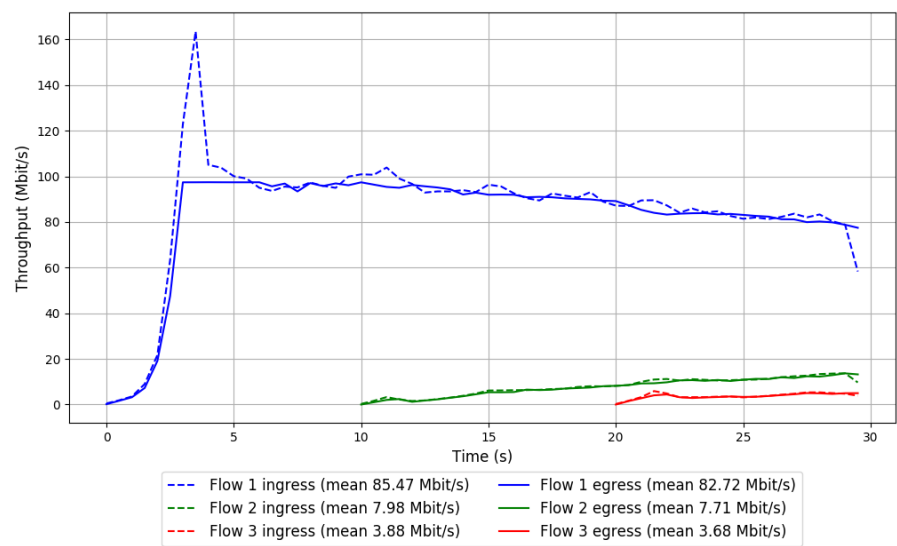
-- Flow 3:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 131.415 ms

Loss rate: 5.16%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-04 00:47:50

End at: 2018-02-04 00:48:20

Local clock offset: 0.086 ms

Remote clock offset: 2.569 ms

Below is generated by plot.py at 2018-02-04 03:29:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.38 Mbit/s

95th percentile per-packet one-way delay: 130.835 ms

Loss rate: 3.15%

-- Flow 1:

Average throughput: 81.20 Mbit/s

95th percentile per-packet one-way delay: 130.767 ms

Loss rate: 3.15%

-- Flow 2:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 134.365 ms

Loss rate: 2.97%

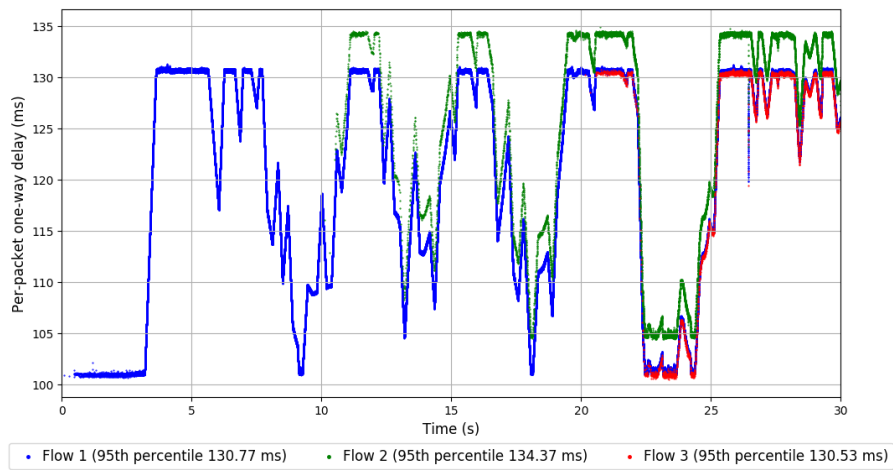
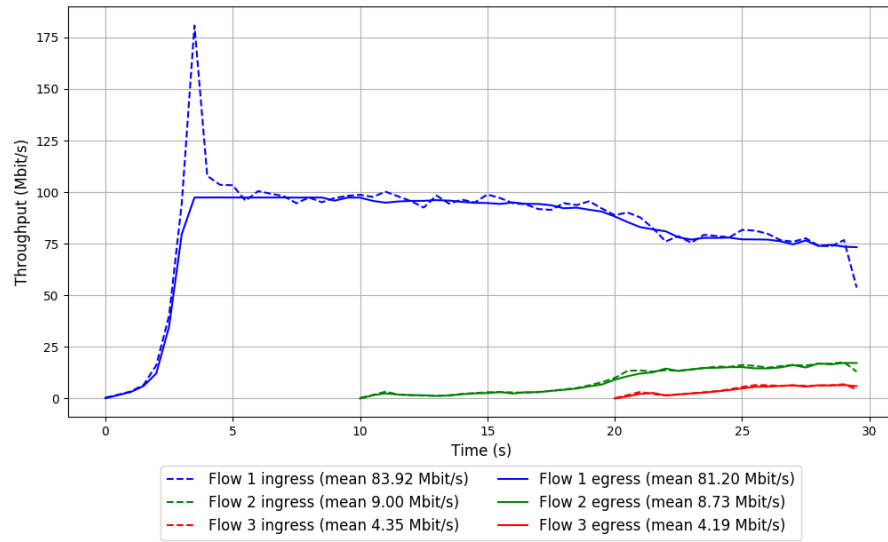
-- Flow 3:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 130.529 ms

Loss rate: 3.93%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-04 01:10:18

End at: 2018-02-04 01:10:48

Local clock offset: 0.029 ms

Remote clock offset: 2.874 ms

Below is generated by plot.py at 2018-02-04 03:30:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 135.952 ms

Loss rate: 3.22%

-- Flow 1:

Average throughput: 81.73 Mbit/s

95th percentile per-packet one-way delay: 135.938 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 136.097 ms

Loss rate: 3.40%

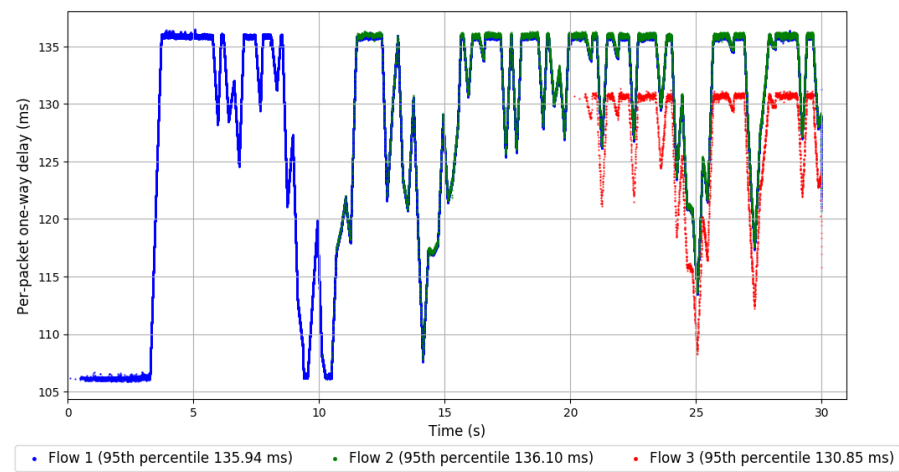
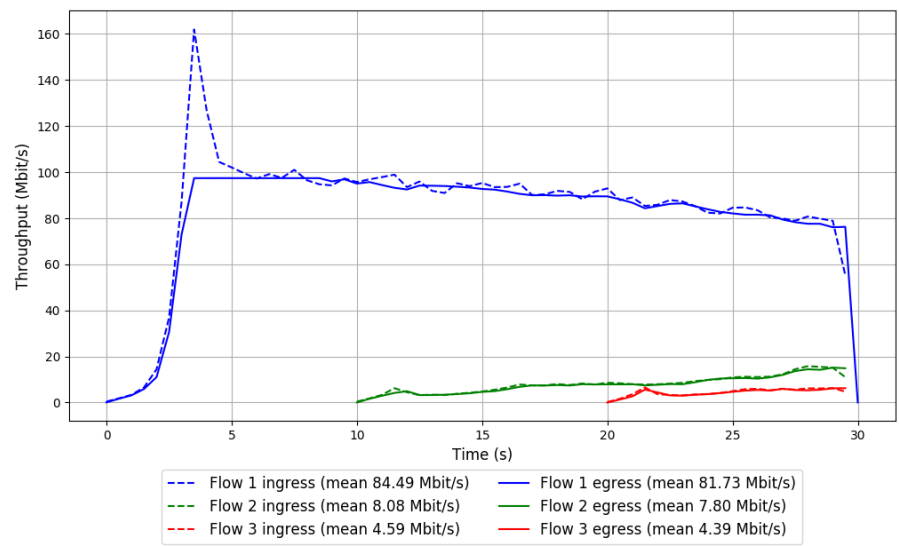
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 130.846 ms

Loss rate: 4.29%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-04 01:32:47

End at: 2018-02-04 01:33:17

Local clock offset: 0.121 ms

Remote clock offset: 2.227 ms

Below is generated by plot.py at 2018-02-04 03:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.07 Mbit/s

95th percentile per-packet one-way delay: 136.958 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 136.957 ms

Loss rate: 2.97%

-- Flow 2:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 137.008 ms

Loss rate: 3.54%

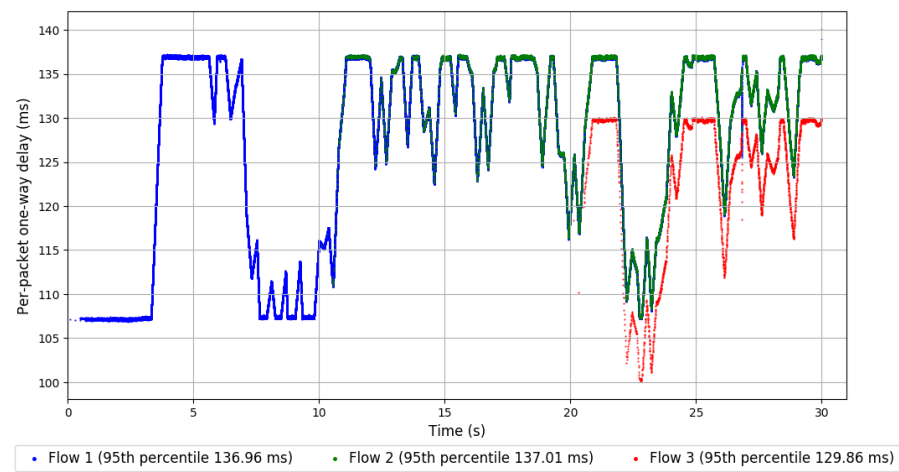
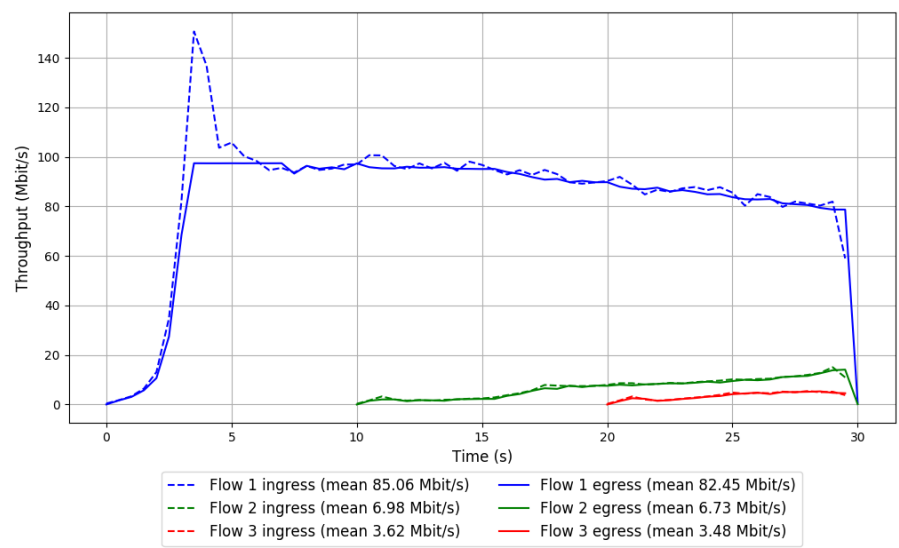
-- Flow 3:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 129.857 ms

Loss rate: 3.58%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-04 01:55:14

End at: 2018-02-04 01:55:44

Local clock offset: 0.104 ms

Remote clock offset: 3.258 ms

Below is generated by plot.py at 2018-02-04 03:30:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 134.560 ms

Loss rate: 3.05%

-- Flow 1:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 134.564 ms

Loss rate: 3.04%

-- Flow 2:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 128.999 ms

Loss rate: 3.13%

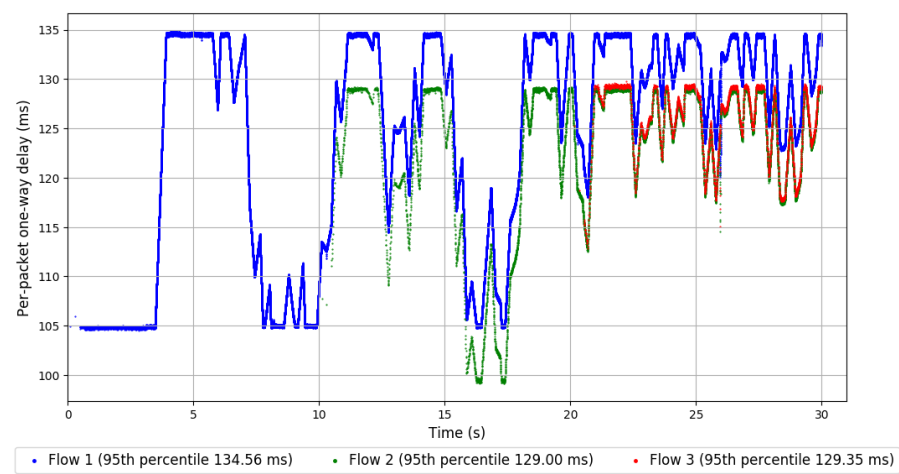
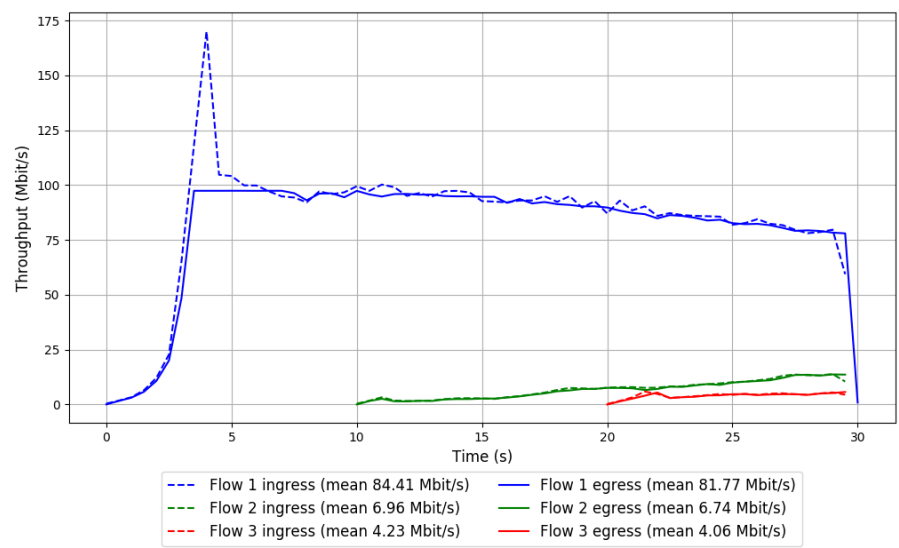
-- Flow 3:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 129.353 ms

Loss rate: 3.92%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-04 02:17:41

End at: 2018-02-04 02:18:11

Local clock offset: 0.064 ms

Remote clock offset: 4.274 ms

Below is generated by plot.py at 2018-02-04 03:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.40 Mbit/s

95th percentile per-packet one-way delay: 136.903 ms

Loss rate: 3.73%

-- Flow 1:

Average throughput: 78.98 Mbit/s

95th percentile per-packet one-way delay: 136.909 ms

Loss rate: 3.59%

-- Flow 2:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 132.155 ms

Loss rate: 5.21%

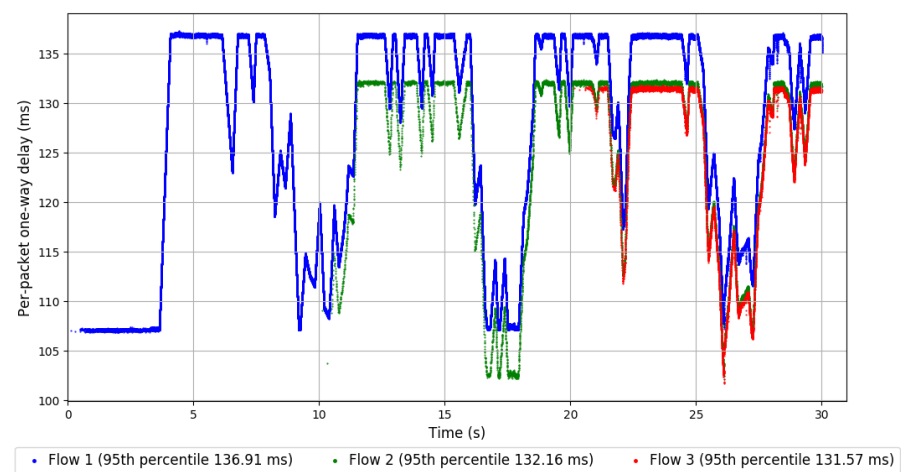
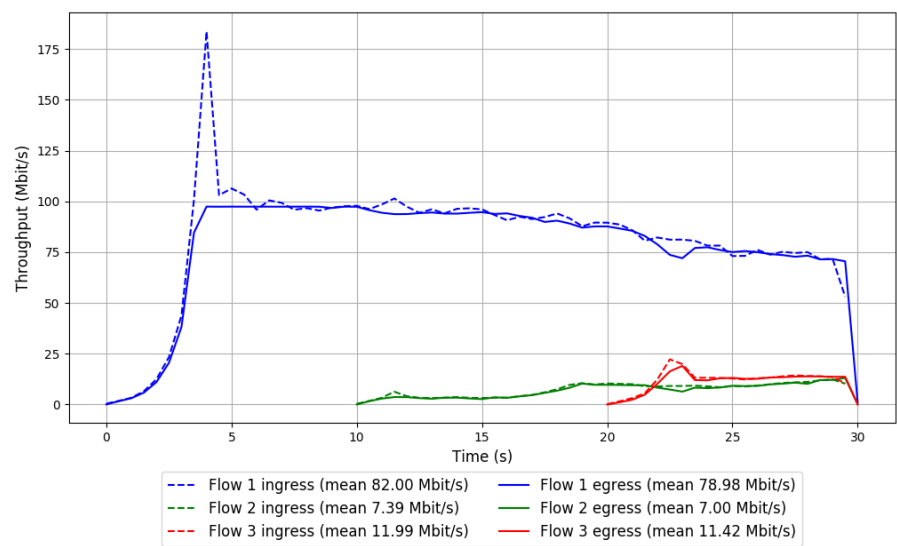
-- Flow 3:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 131.570 ms

Loss rate: 4.69%

Run 10: Report of Vivace-loss — Data Link

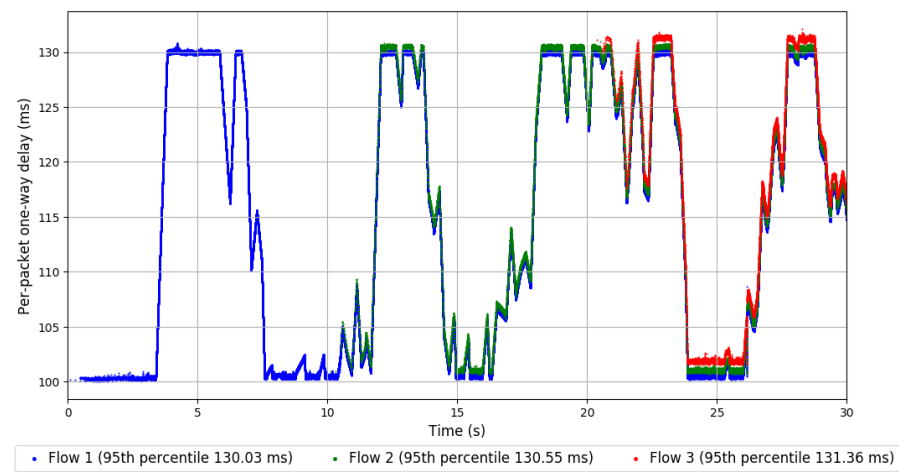
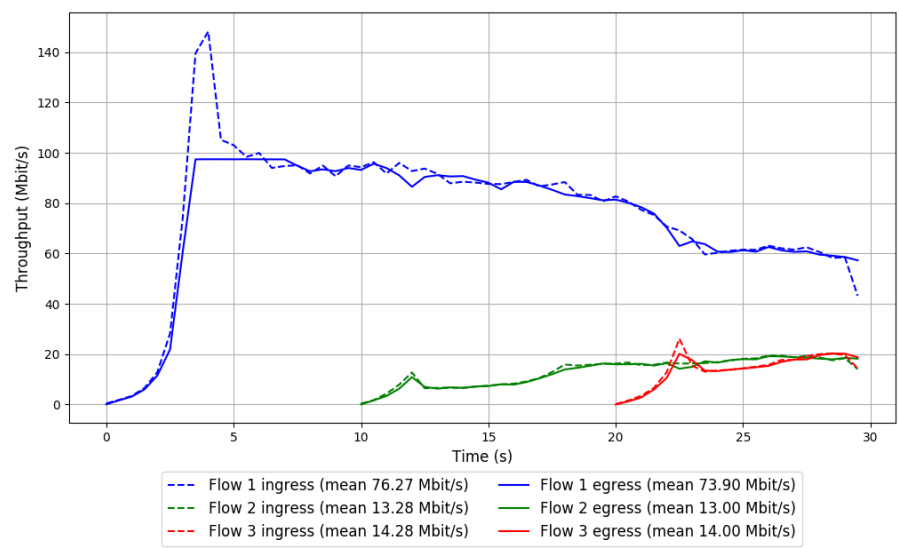


Run 1: Statistics of Vivace-LTE

Start at: 2018-02-03 23:11:14
End at: 2018-02-03 23:11:44
Local clock offset: -0.018 ms
Remote clock offset: 0.735 ms

Below is generated by plot.py at 2018-02-04 03:30:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 130.101 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 73.90 Mbit/s
95th percentile per-packet one-way delay: 130.028 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 130.549 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 131.363 ms
Loss rate: 2.12%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-03 23:33:43

End at: 2018-02-03 23:34:13

Local clock offset: -0.003 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at 2018-02-04 03:31:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 127.958 ms

Loss rate: 2.77%

-- Flow 1:

Average throughput: 74.97 Mbit/s

95th percentile per-packet one-way delay: 127.921 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 15.40 Mbit/s

95th percentile per-packet one-way delay: 130.100 ms

Loss rate: 1.48%

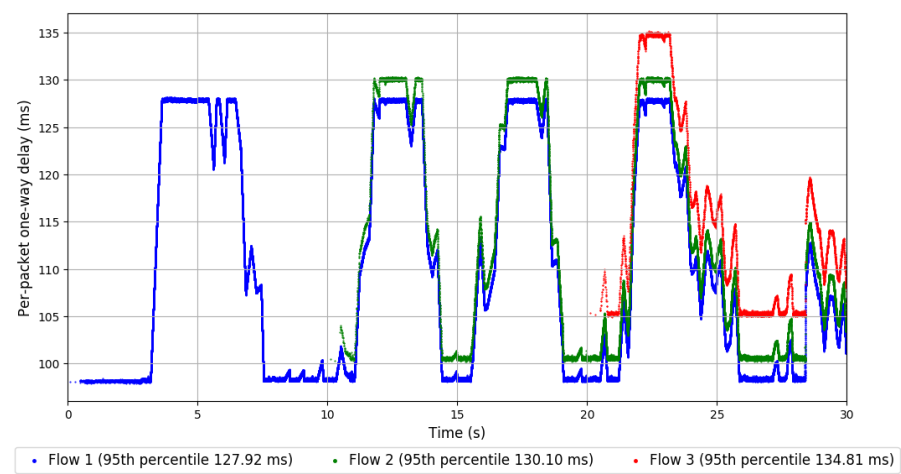
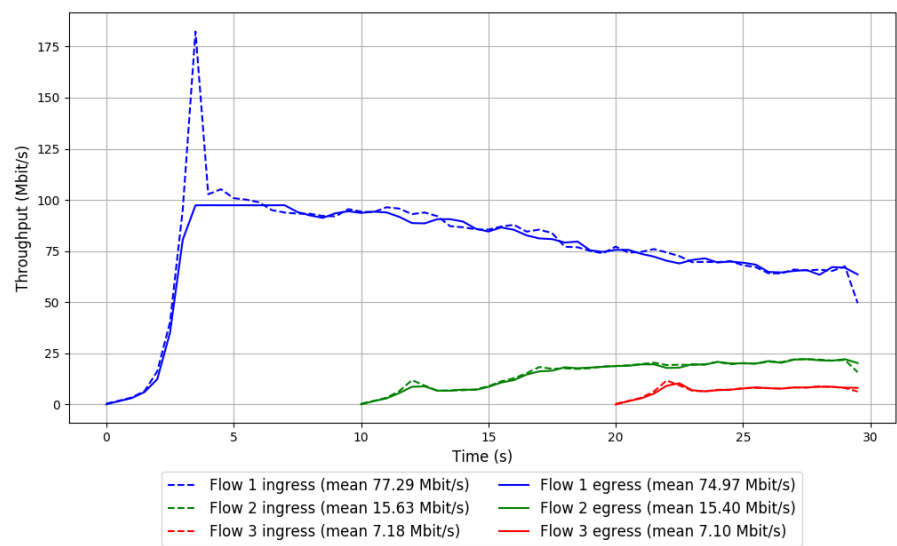
-- Flow 3:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 134.805 ms

Loss rate: 1.11%

Run 2: Report of Vivace-LTE — Data Link

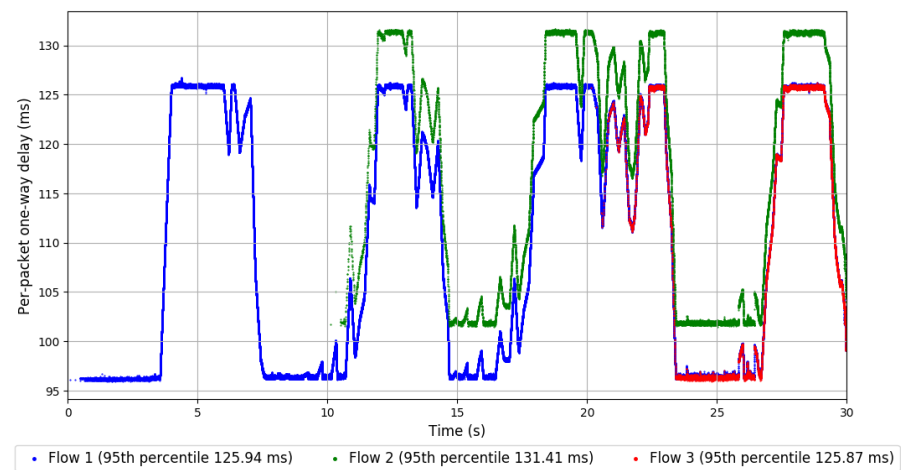
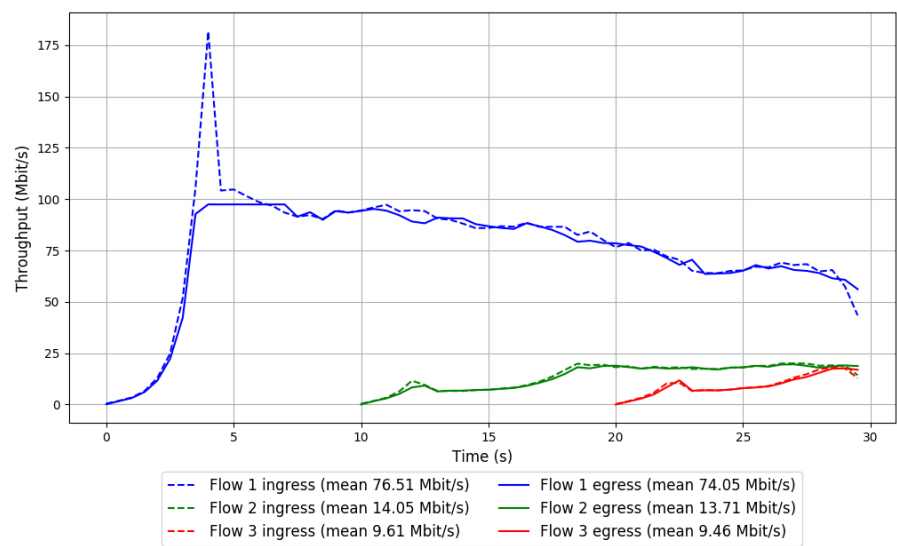


Run 3: Statistics of Vivace-LTE

Start at: 2018-02-03 23:56:12
End at: 2018-02-03 23:56:43
Local clock offset: 0.096 ms
Remote clock offset: -3.207 ms

Below is generated by plot.py at 2018-02-04 03:31:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 126.038 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 74.05 Mbit/s
95th percentile per-packet one-way delay: 125.943 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 13.71 Mbit/s
95th percentile per-packet one-way delay: 131.408 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 125.873 ms
Loss rate: 1.81%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-04 00:18:44

End at: 2018-02-04 00:19:14

Local clock offset: 0.119 ms

Remote clock offset: 2.028 ms

Below is generated by plot.py at 2018-02-04 03:31:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 129.635 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 129.555 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 10.57 Mbit/s

95th percentile per-packet one-way delay: 135.978 ms

Loss rate: 1.68%

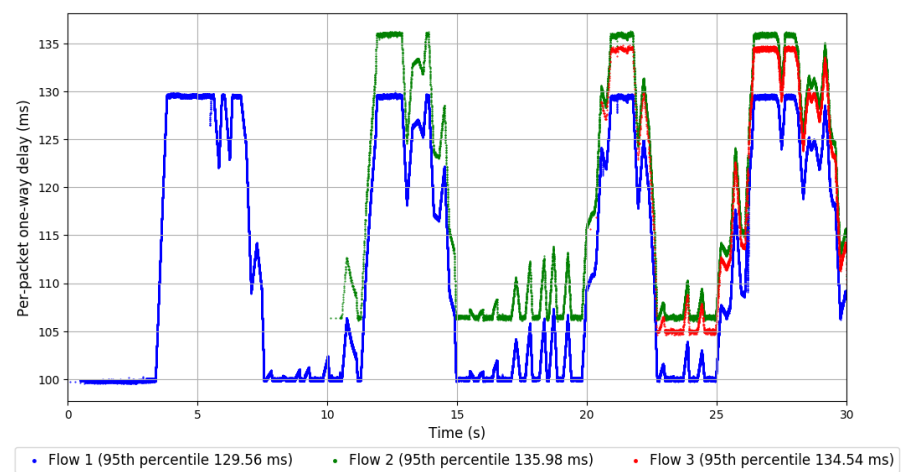
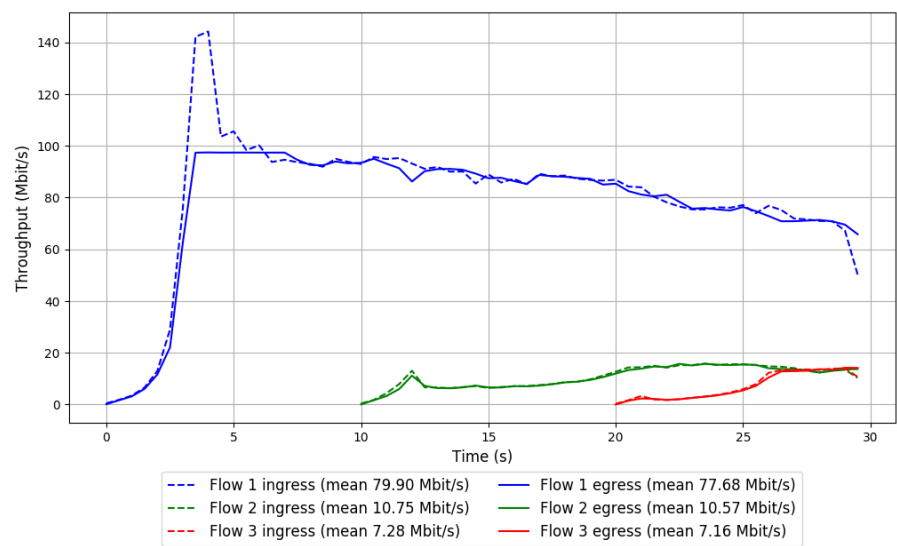
-- Flow 3:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 134.544 ms

Loss rate: 1.80%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-04 00:41:11

End at: 2018-02-04 00:41:41

Local clock offset: 0.065 ms

Remote clock offset: 3.328 ms

Below is generated by plot.py at 2018-02-04 03:31:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 128.540 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 78.54 Mbit/s

95th percentile per-packet one-way delay: 128.514 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 131.593 ms

Loss rate: 1.72%

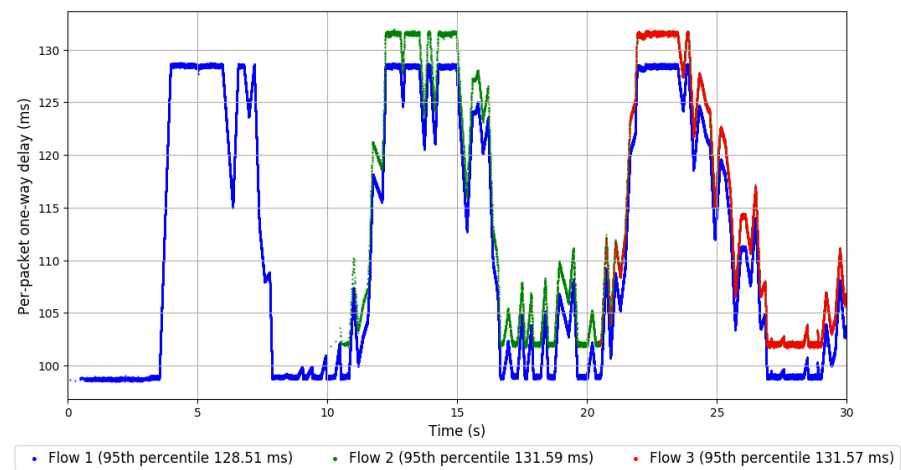
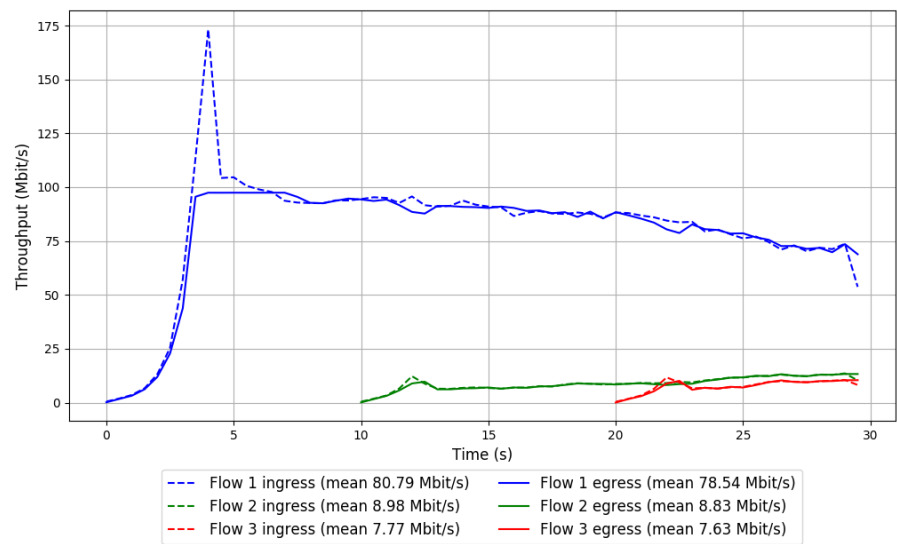
-- Flow 3:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 131.571 ms

Loss rate: 1.86%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-04 01:03:41

End at: 2018-02-04 01:04:11

Local clock offset: 0.037 ms

Remote clock offset: 2.82 ms

Below is generated by plot.py at 2018-02-04 03:31:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 130.784 ms

Loss rate: 3.40%

-- Flow 1:

Average throughput: 74.58 Mbit/s

95th percentile per-packet one-way delay: 130.775 ms

Loss rate: 3.40%

-- Flow 2:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 130.812 ms

Loss rate: 2.93%

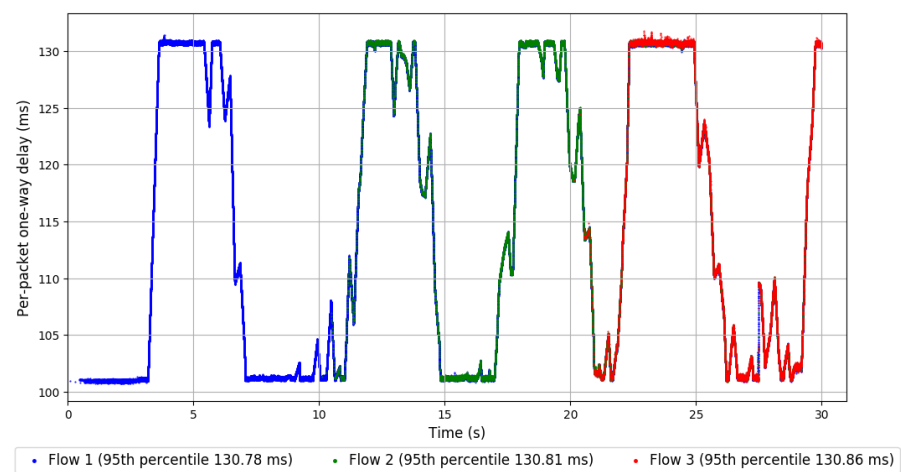
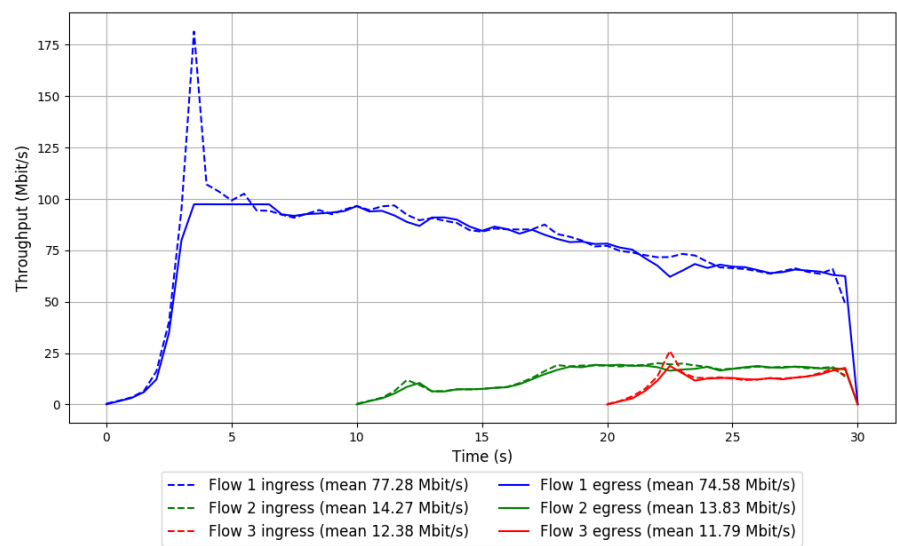
-- Flow 3:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 130.861 ms

Loss rate: 4.62%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-04 01:26:09

End at: 2018-02-04 01:26:39

Local clock offset: 0.019 ms

Remote clock offset: 2.17 ms

Below is generated by plot.py at 2018-02-04 03:31:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 132.398 ms

Loss rate: 3.13%

-- Flow 1:

Average throughput: 74.30 Mbit/s

95th percentile per-packet one-way delay: 132.308 ms

Loss rate: 3.17%

-- Flow 2:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 136.627 ms

Loss rate: 2.73%

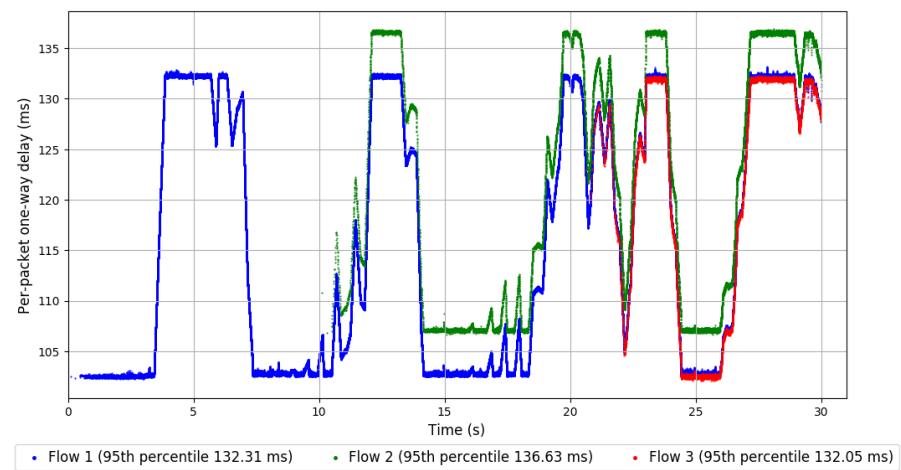
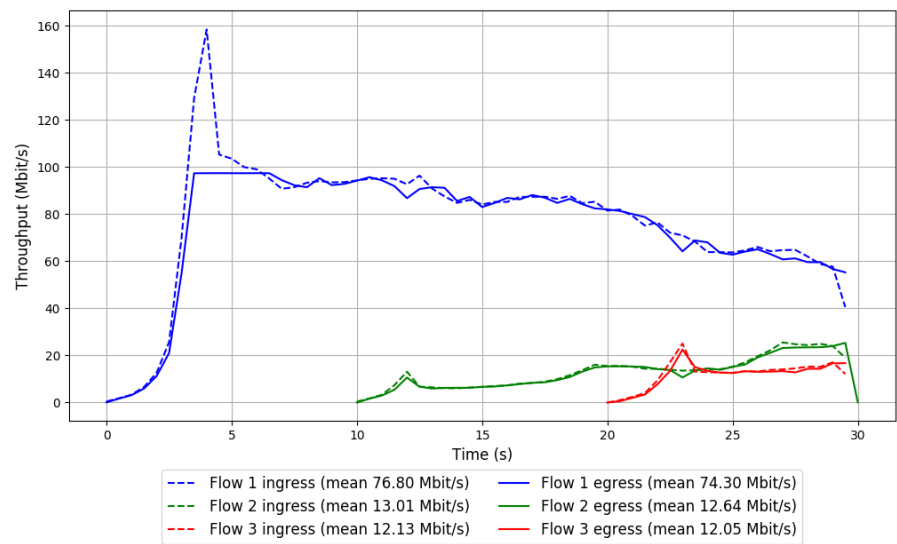
-- Flow 3:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 132.052 ms

Loss rate: 3.26%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-04 01:48:38

End at: 2018-02-04 01:49:08

Local clock offset: 0.115 ms

Remote clock offset: 4.043 ms

Below is generated by plot.py at 2018-02-04 03:31:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 134.827 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 73.45 Mbit/s

95th percentile per-packet one-way delay: 134.839 ms

Loss rate: 3.35%

-- Flow 2:

Average throughput: 14.17 Mbit/s

95th percentile per-packet one-way delay: 131.759 ms

Loss rate: 2.93%

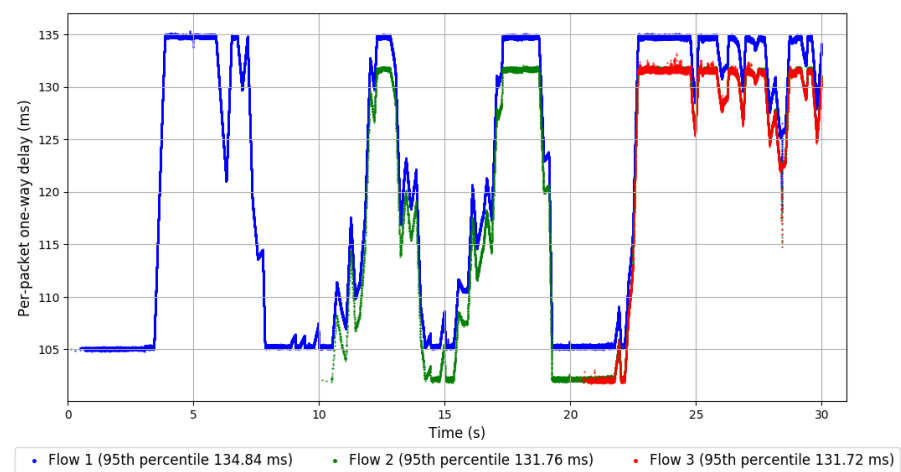
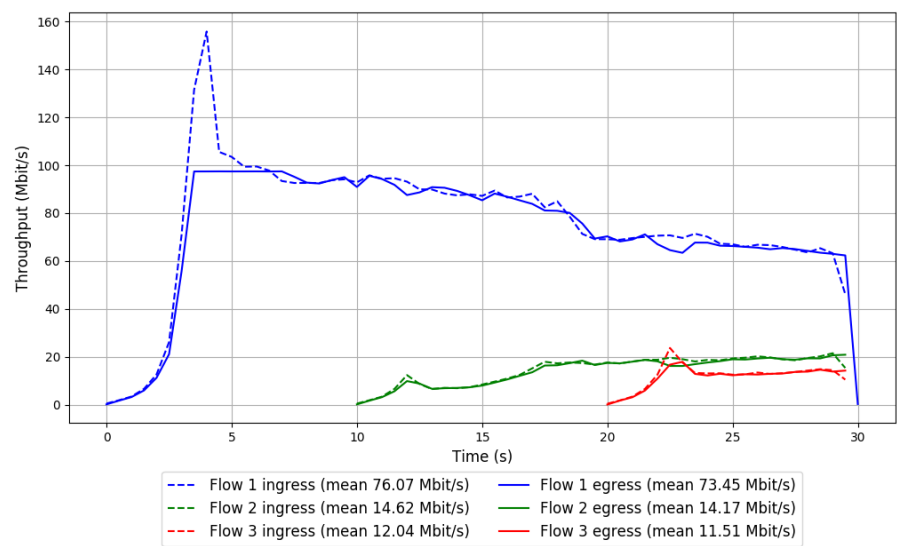
-- Flow 3:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 131.721 ms

Loss rate: 4.13%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-04 02:11:06

End at: 2018-02-04 02:11:36

Local clock offset: -0.008 ms

Remote clock offset: 3.466 ms

Below is generated by plot.py at 2018-02-04 03:31:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 132.637 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 132.617 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 129.621 ms

Loss rate: 1.49%

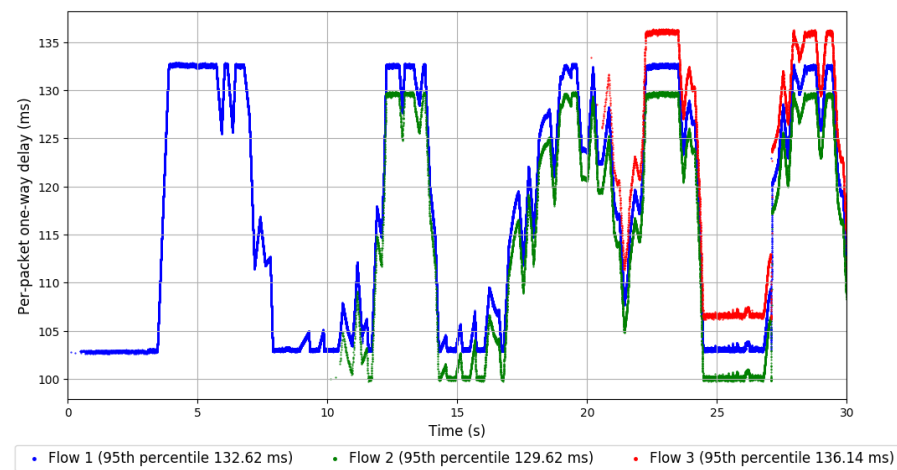
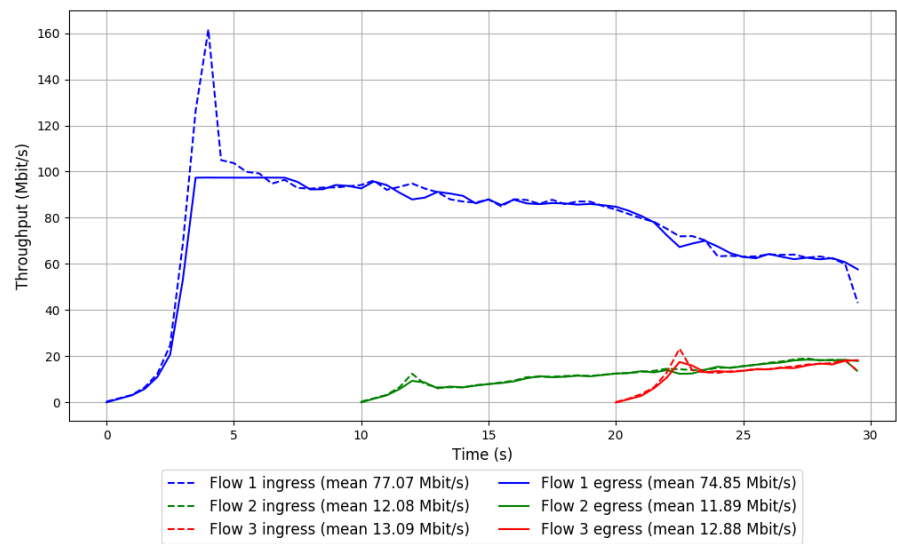
-- Flow 3:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 136.139 ms

Loss rate: 1.78%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-04 02:33:33
End at: 2018-02-04 02:34:03
Local clock offset: -0.068 ms
Remote clock offset: -1.321 ms

Below is generated by plot.py at 2018-02-04 03:31:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.68 Mbit/s
95th percentile per-packet one-way delay: 126.033 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 126.032 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 125.936 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 126.184 ms
Loss rate: 4.02%

Run 10: Report of Vivace-LTE — Data Link

