

Pantheon Report

Generated at 2018-02-05 03:19:31 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

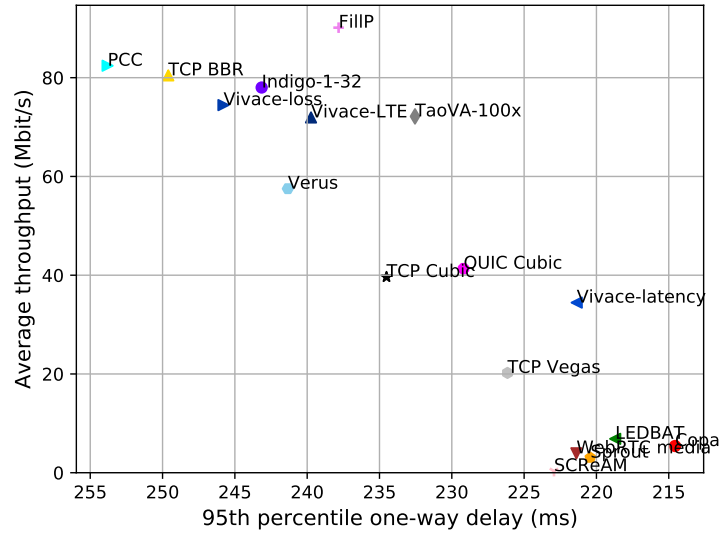
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

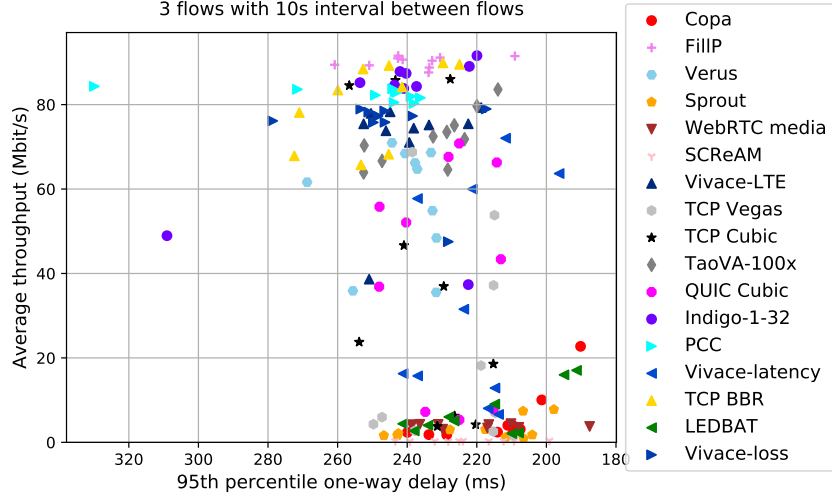
Git summary:

```
branch: master @ 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 @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



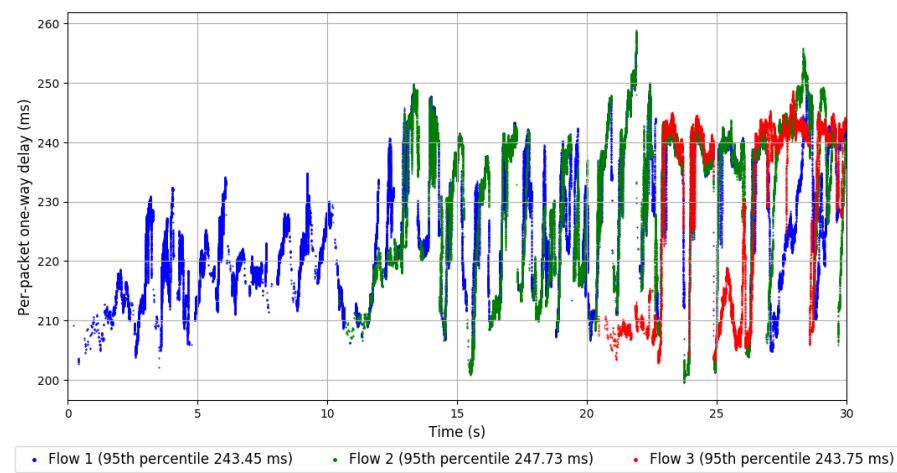
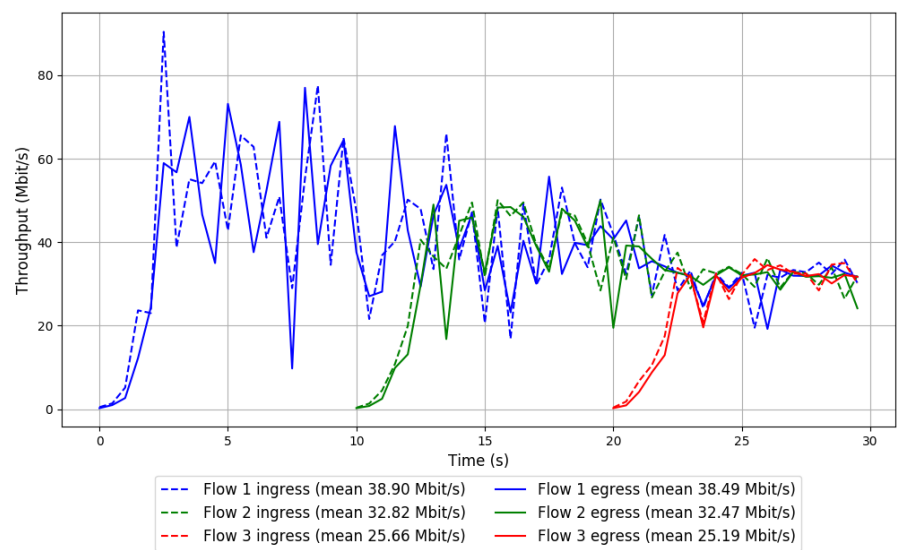
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	46.44	38.32	26.43	246.51	245.84	253.00	1.01	1.29	3.10
TCP Cubic	10	25.14	14.94	14.05	231.63	233.95	235.90	0.76	1.34	2.55
LEDBAT	10	4.35	2.92	1.79	212.77	219.89	216.26	1.25	1.83	4.06
PCC	10	52.88	31.33	27.03	251.92	249.63	258.53	1.12	1.66	3.14
QUIC Cubic	10	26.28	15.95	13.74	226.64	228.03	224.03	0.92	1.40	3.20
SCReAM	10	0.15	0.17	0.19	221.98	223.19	215.85	1.04	1.03	1.82
WebRTC media	10	2.21	1.34	0.42	221.53	218.75	221.10	1.60	1.80	4.11
Sprout	10	1.56	1.53	1.47	220.61	220.52	217.15	1.22	1.65	2.68
TaoVA-100x	10	40.96	35.52	22.73	226.80	234.56	236.25	0.91	1.47	2.60
TCP Vegas	10	11.12	9.81	7.95	224.45	220.08	226.50	0.87	1.29	2.05
Verus	10	30.81	29.09	23.14	240.38	243.14	240.61	1.46	2.02	2.65
Copa	10	3.26	2.13	2.24	213.63	215.09	214.60	0.88	1.27	2.01
FillP	10	56.83	38.03	24.77	233.99	237.53	243.87	1.15	2.36	4.10
Indigo-1-32	10	47.84	35.55	20.60	242.52	243.30	237.75	1.04	1.57	2.99
Vivace-latency	10	22.84	15.13	4.85	221.60	218.45	219.34	1.34	1.92	3.05
Vivace-loss	10	47.19	31.80	19.05	239.38	248.50	247.65	1.13	1.80	3.17
Vivace-LTE	10	45.62	29.68	20.55	238.51	236.88	243.94	1.00	1.70	3.18

Run 1: Statistics of TCP BBR

Start at: 2018-02-04 17:51:22
End at: 2018-02-04 17:51:52
Local clock offset: 2.953 ms
Remote clock offset: 32.213 ms

Below is generated by plot.py at 2018-02-05 03:02:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.24 Mbit/s
95th percentile per-packet one-way delay: 245.332 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 243.450 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 247.726 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 243.751 ms
Loss rate: 4.18%

Run 1: Report of TCP BBR — Data Link

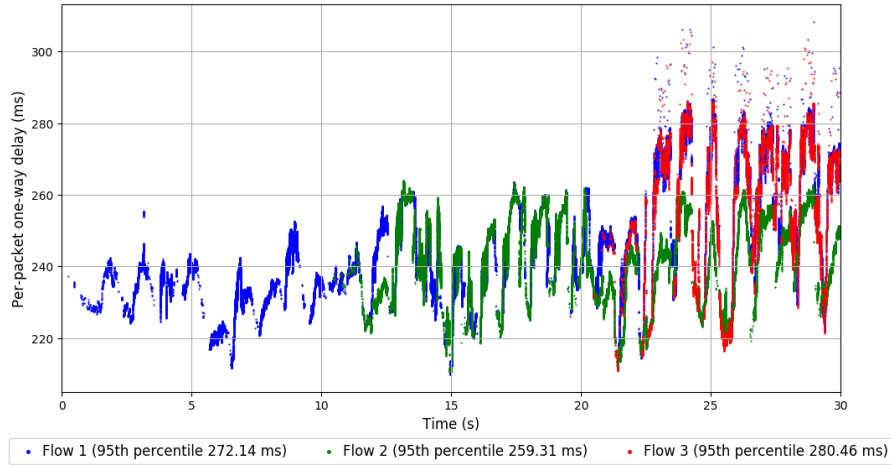
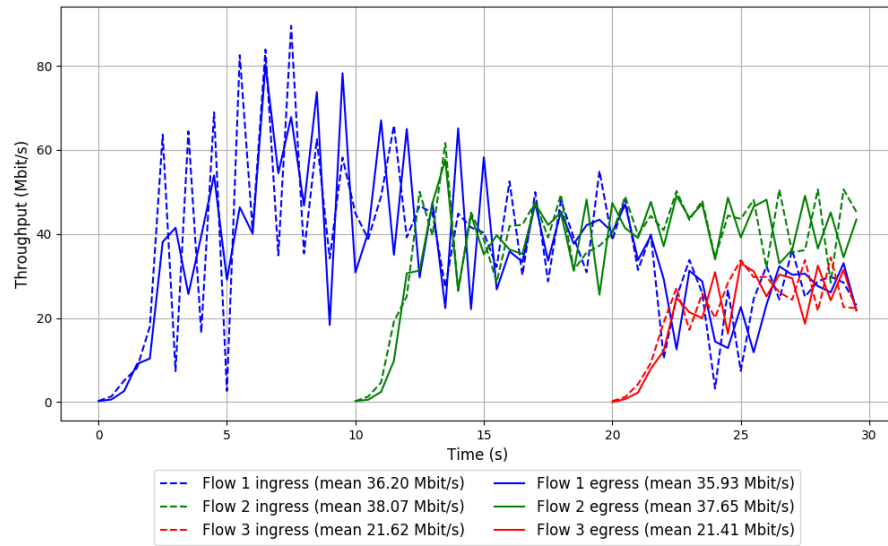


Run 2: Statistics of TCP BBR

Start at: 2018-02-04 18:34:25
End at: 2018-02-04 18:34:55
Local clock offset: 6.271 ms
Remote clock offset: 23.712 ms

Below is generated by plot.py at 2018-02-05 03:02:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.87 Mbit/s
95th percentile per-packet one-way delay: 272.431 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 35.93 Mbit/s
95th percentile per-packet one-way delay: 272.143 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 37.65 Mbit/s
95th percentile per-packet one-way delay: 259.308 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 21.41 Mbit/s
95th percentile per-packet one-way delay: 280.456 ms
Loss rate: 3.94%

Run 2: Report of TCP BBR — Data Link

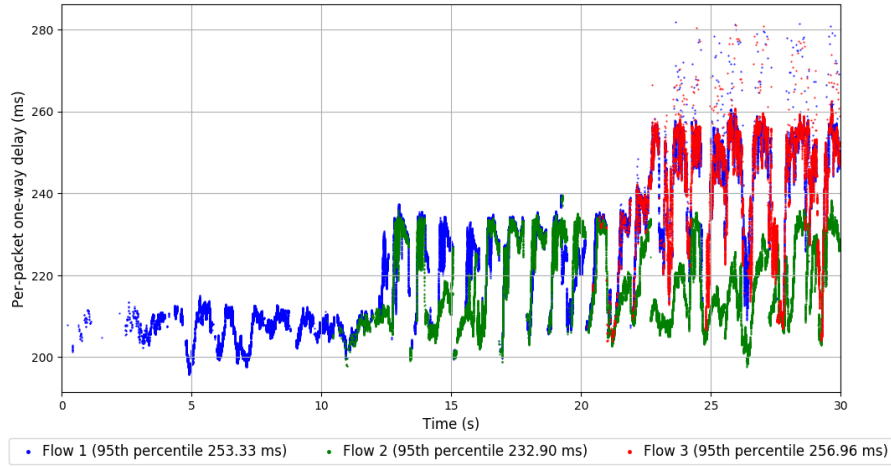
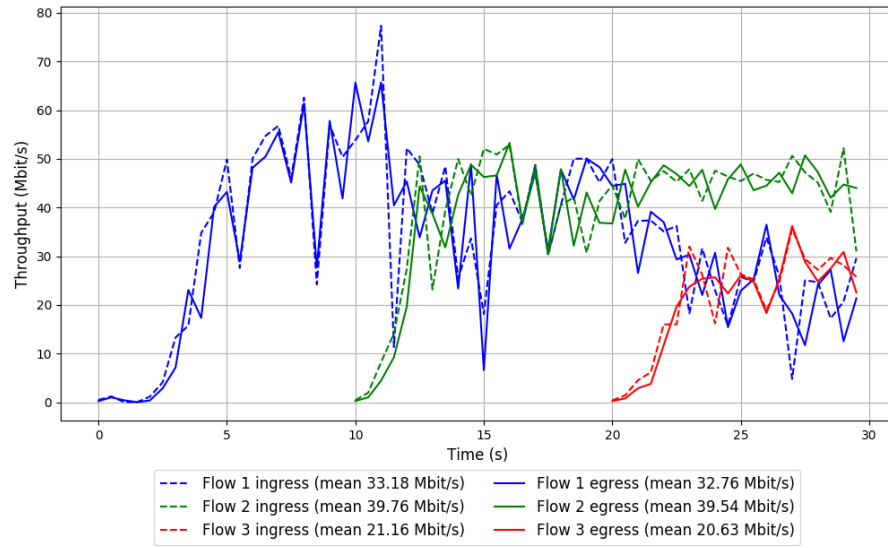


Run 3: Statistics of TCP BBR

Start at: 2018-02-04 19:14:32
End at: 2018-02-04 19:15:02
Local clock offset: 0.756 ms
Remote clock offset: 18.479 ms

Below is generated by plot.py at 2018-02-05 03:02:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.73 Mbit/s
95th percentile per-packet one-way delay: 253.297 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 253.328 ms
Loss rate: 2.05%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 232.904 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 20.63 Mbit/s
95th percentile per-packet one-way delay: 256.959 ms
Loss rate: 4.77%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-04 19:50:40

End at: 2018-02-04 19:51:10

Local clock offset: 3.165 ms

Remote clock offset: 1.886 ms

Below is generated by plot.py at 2018-02-05 03:02:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 270.997 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 42.70 Mbit/s

95th percentile per-packet one-way delay: 272.198 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 259.802 ms

Loss rate: 1.13%

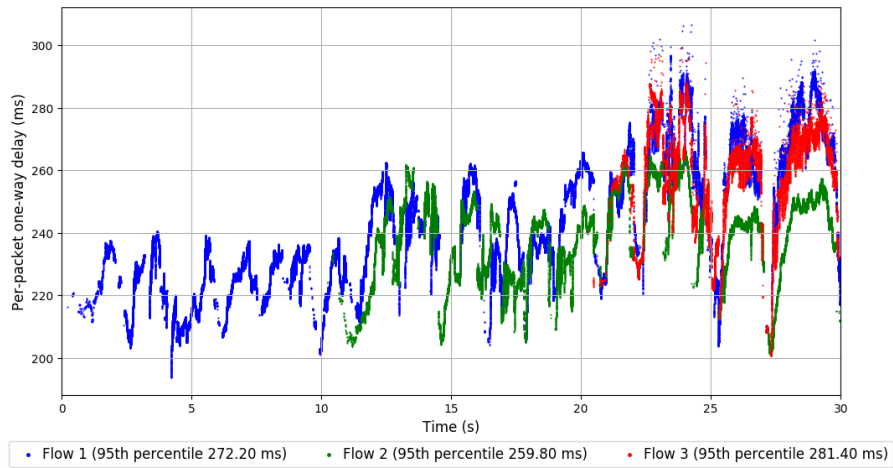
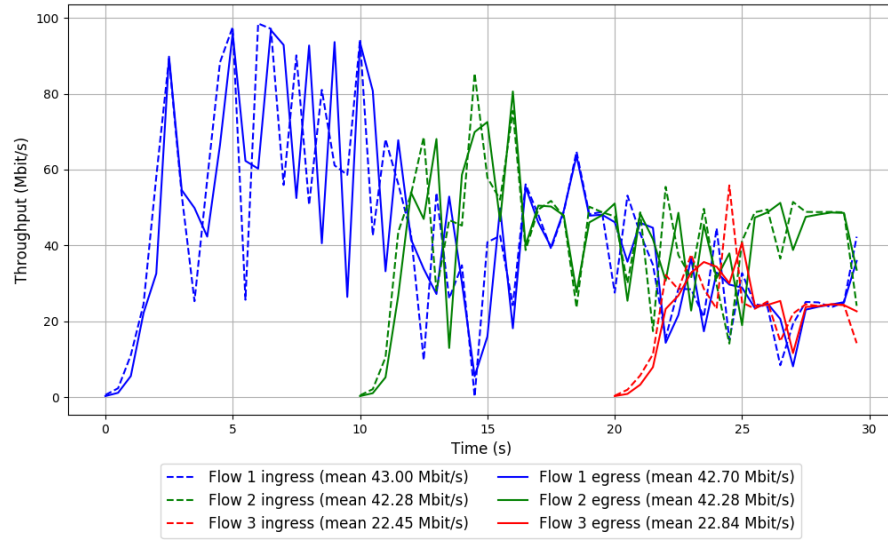
-- Flow 3:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 281.405 ms

Loss rate: 1.45%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-04 20:18:55

End at: 2018-02-04 20:19:25

Local clock offset: 1.329 ms

Remote clock offset: 3.406 ms

Below is generated by plot.py at 2018-02-05 03:02:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 259.940 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 46.46 Mbit/s

95th percentile per-packet one-way delay: 261.308 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 261.206 ms

Loss rate: 0.87%

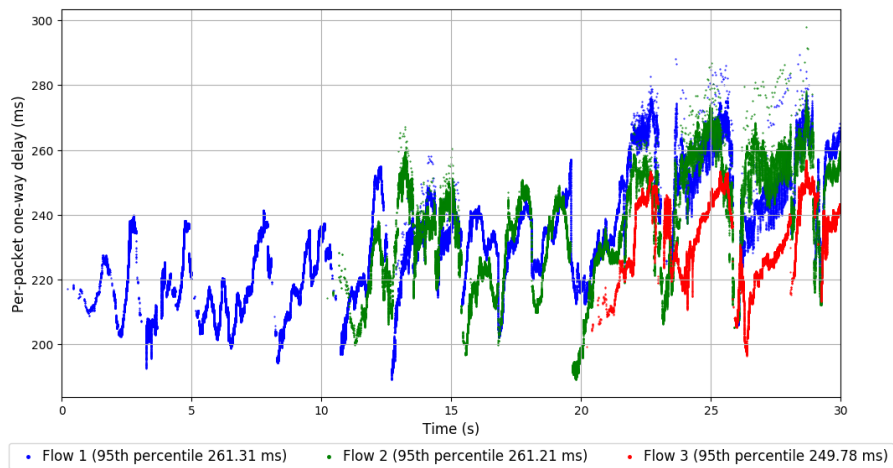
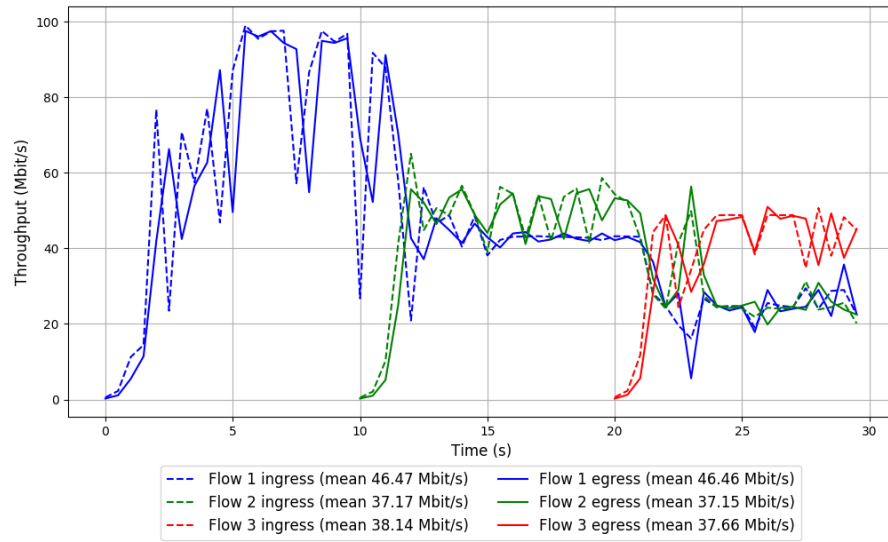
-- Flow 3:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 249.777 ms

Loss rate: 3.30%

Run 5: Report of TCP BBR — Data Link

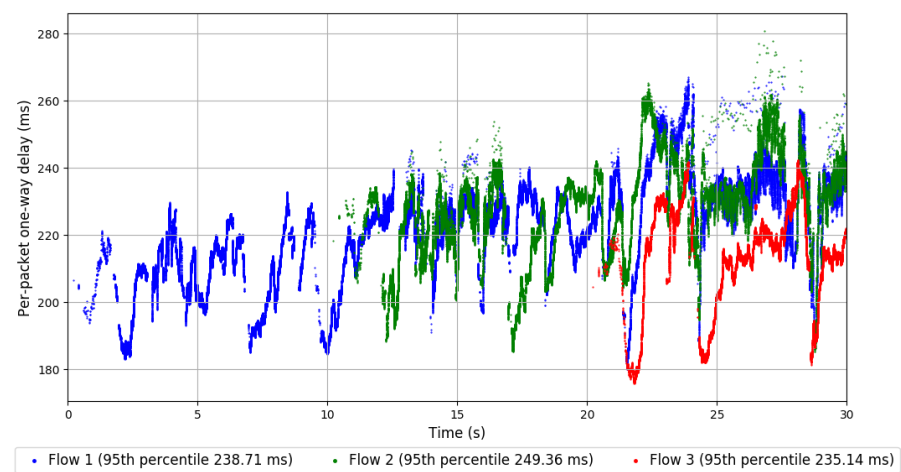
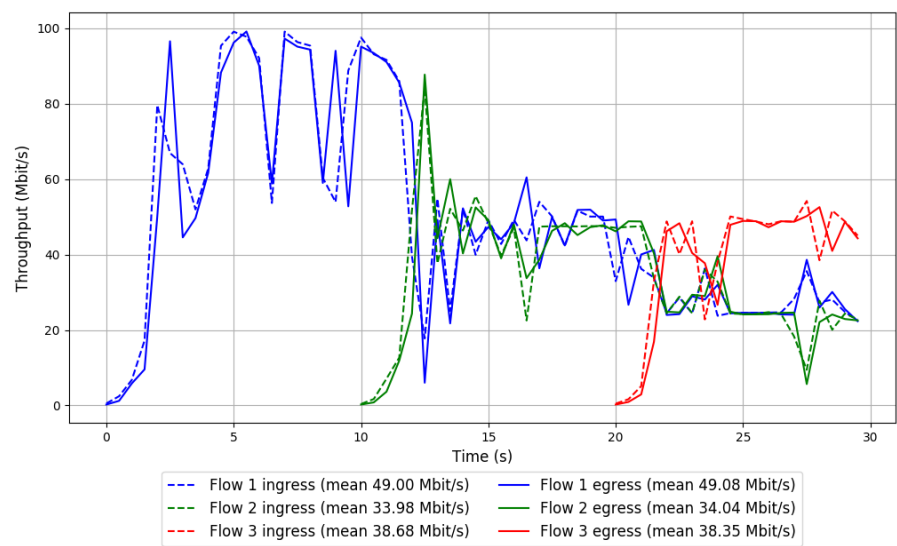


Run 6: Statistics of TCP BBR

Start at: 2018-02-04 20:50:03
End at: 2018-02-04 20:50:33
Local clock offset: 5.046 ms
Remote clock offset: 15.773 ms

Below is generated by plot.py at 2018-02-05 03:02:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.20 Mbit/s
95th percentile per-packet one-way delay: 241.471 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 238.707 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 249.361 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 235.140 ms
Loss rate: 3.04%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-04 21:21:44

End at: 2018-02-04 21:22:14

Local clock offset: 3.37 ms

Remote clock offset: 3.693 ms

Below is generated by plot.py at 2018-02-05 03:02:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 252.653 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 250.969 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 43.36 Mbit/s

95th percentile per-packet one-way delay: 248.225 ms

Loss rate: 1.29%

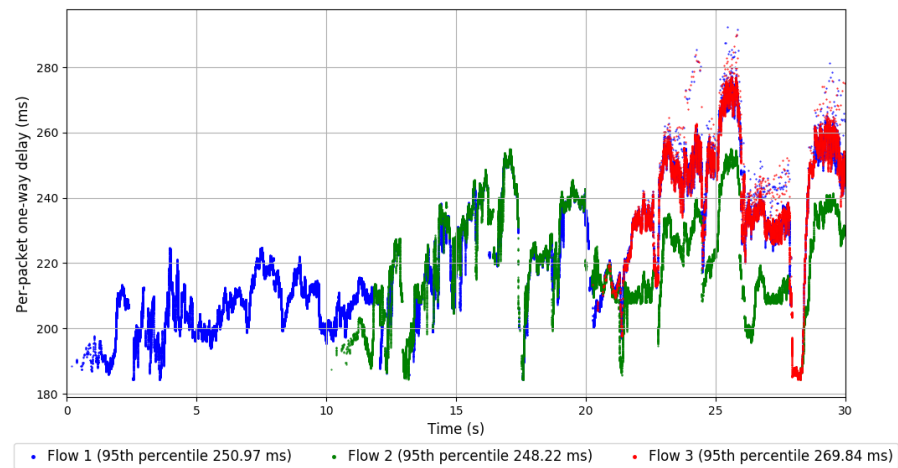
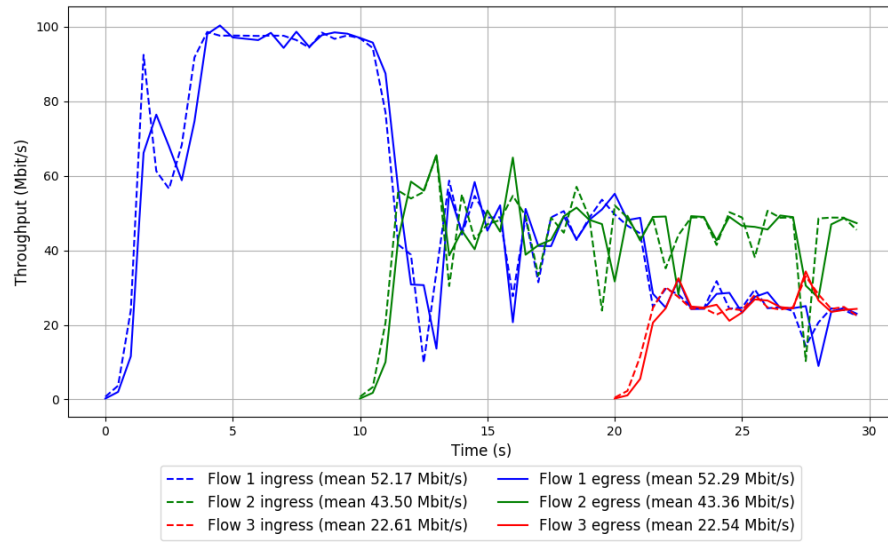
-- Flow 3:

Average throughput: 22.54 Mbit/s

95th percentile per-packet one-way delay: 269.840 ms

Loss rate: 2.60%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-04 21:52:34

End at: 2018-02-04 21:53:04

Local clock offset: 4.238 ms

Remote clock offset: 3.507 ms

Below is generated by plot.py at 2018-02-05 03:02:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 245.210 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 224.106 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: 256.464 ms

Loss rate: 1.11%

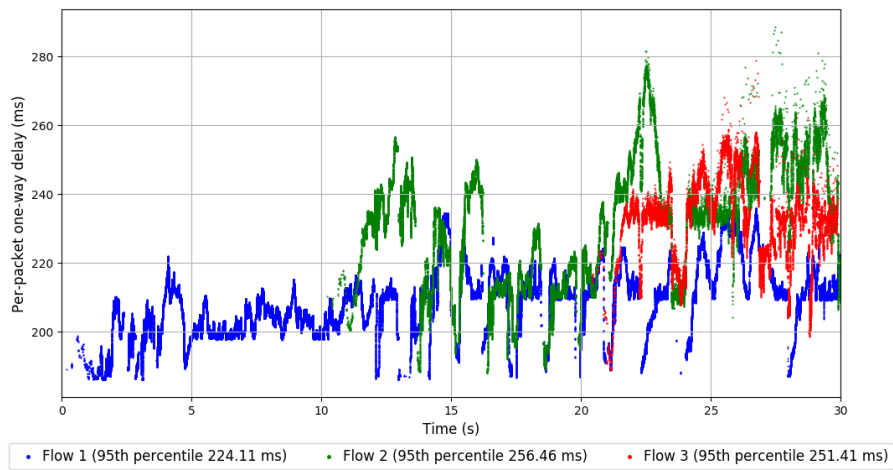
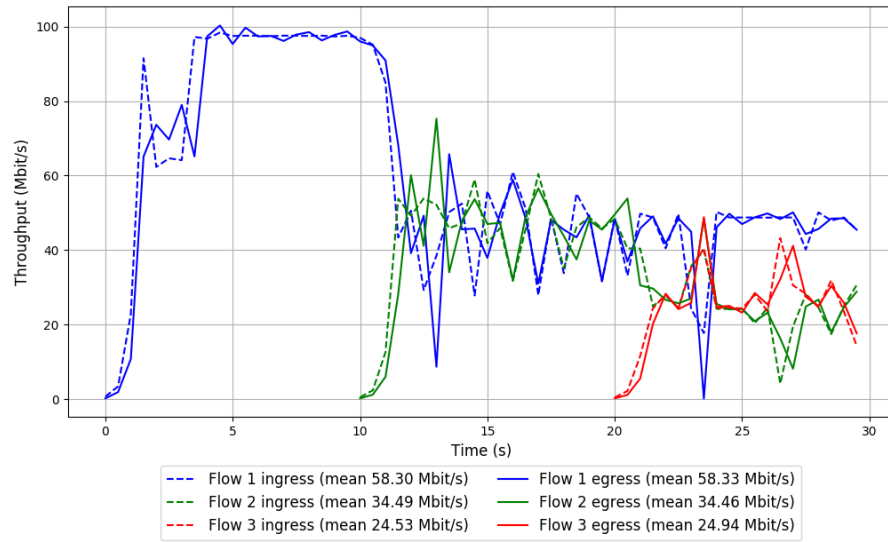
-- Flow 3:

Average throughput: 24.94 Mbit/s

95th percentile per-packet one-way delay: 251.409 ms

Loss rate: 1.52%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-04 22:18:35

End at: 2018-02-04 22:19:05

Local clock offset: 4.836 ms

Remote clock offset: 2.319 ms

Below is generated by plot.py at 2018-02-05 03:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 229.736 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 224.171 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 37.67 Mbit/s

95th percentile per-packet one-way delay: 234.383 ms

Loss rate: 0.01%

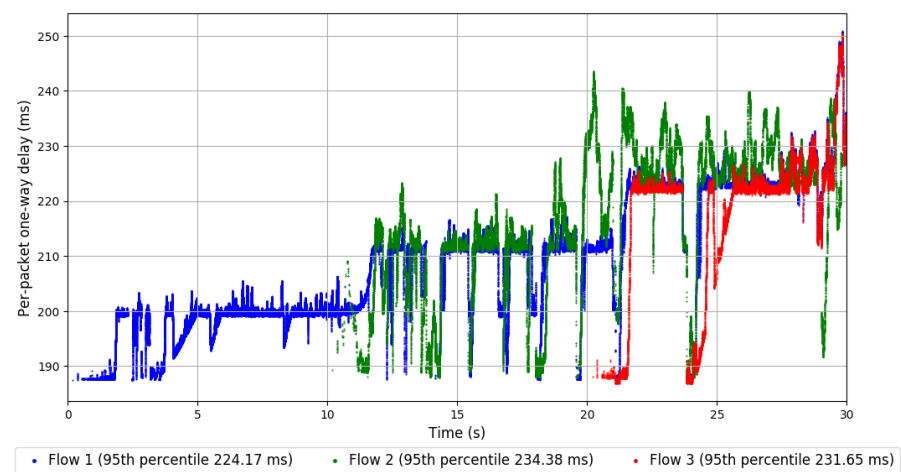
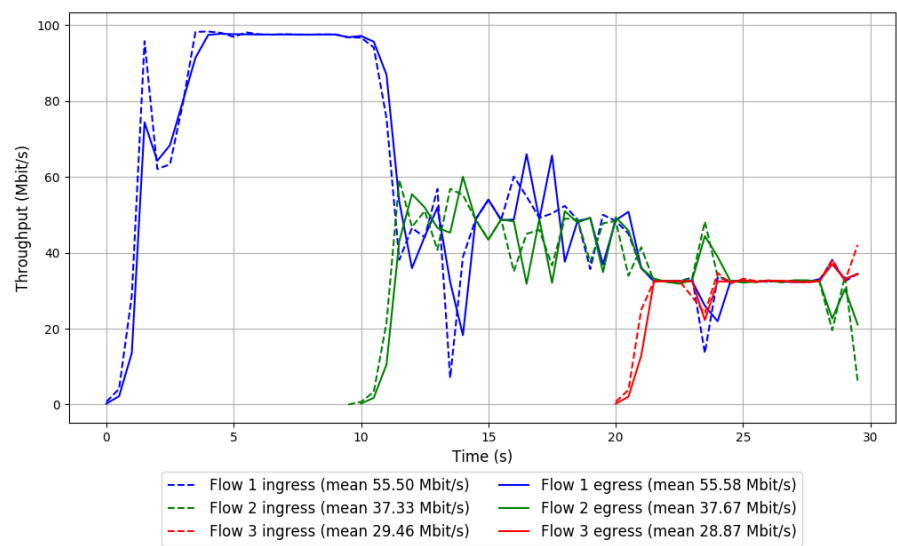
-- Flow 3:

Average throughput: 28.87 Mbit/s

95th percentile per-packet one-way delay: 231.654 ms

Loss rate: 3.85%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-04 22:43:42

End at: 2018-02-04 22:44:12

Local clock offset: -2.699 ms

Remote clock offset: 7.819 ms

Below is generated by plot.py at 2018-02-05 03:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.53 Mbit/s

95th percentile per-packet one-way delay: 224.969 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 224.735 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 44.60 Mbit/s

95th percentile per-packet one-way delay: 209.059 ms

Loss rate: 1.10%

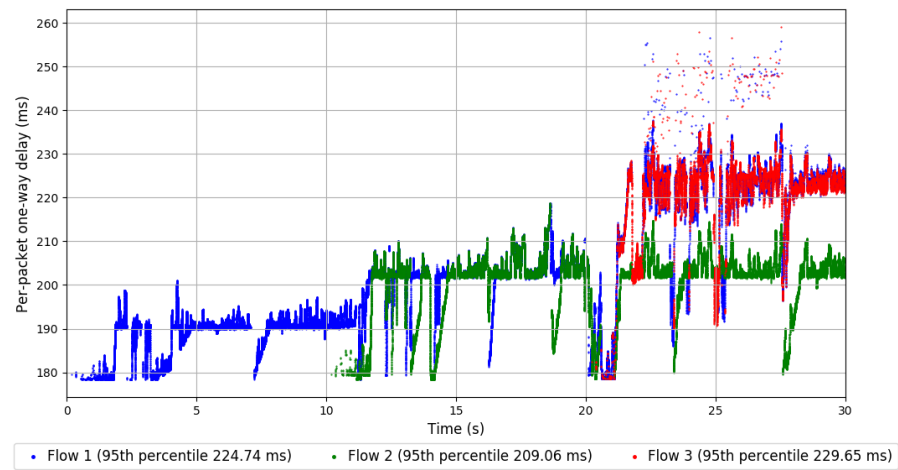
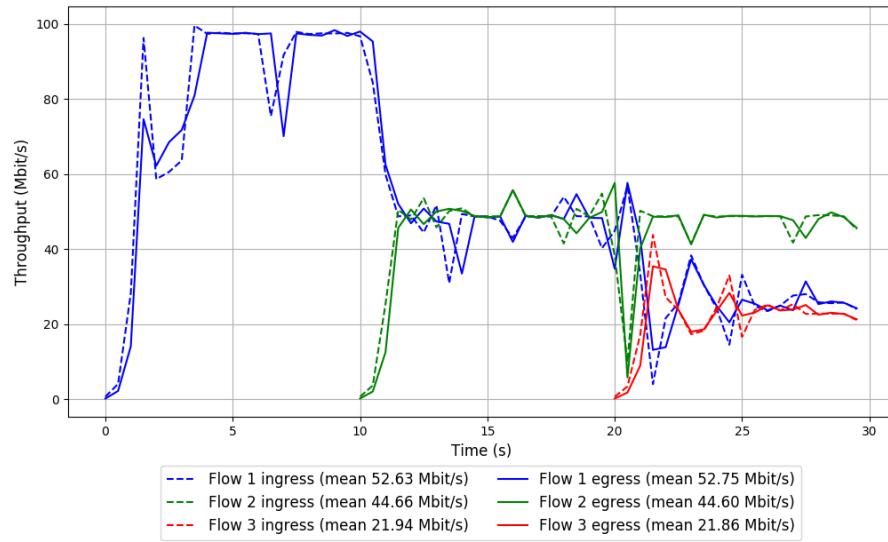
-- Flow 3:

Average throughput: 21.86 Mbit/s

95th percentile per-packet one-way delay: 229.654 ms

Loss rate: 2.30%

Run 10: Report of TCP BBR — Data Link

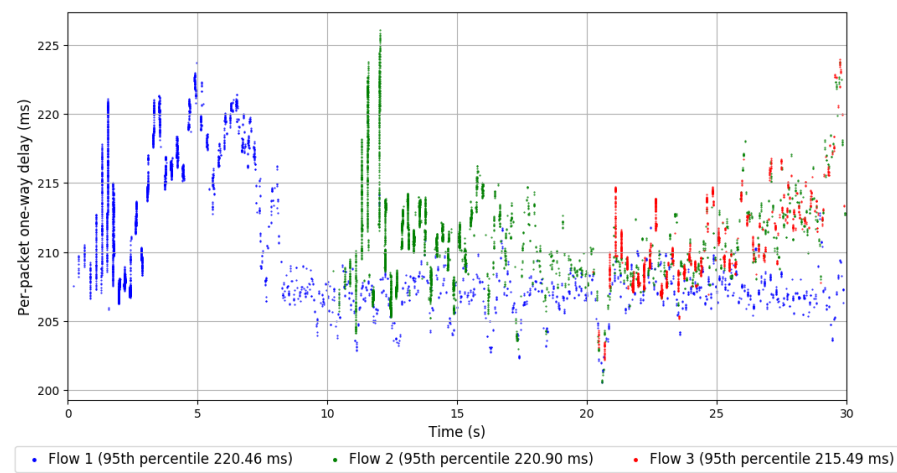
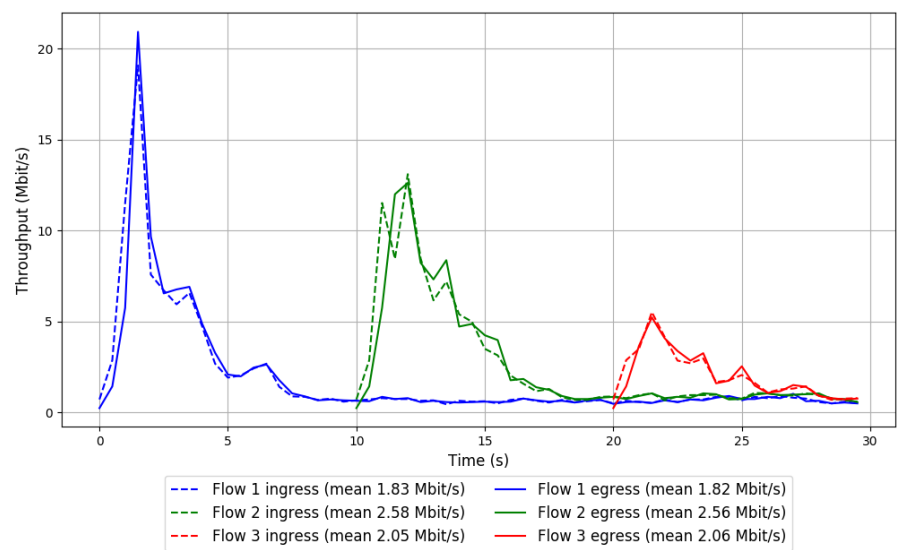


Run 1: Statistics of TCP Cubic

Start at: 2018-02-04 17:46:00
End at: 2018-02-04 17:46:30
Local clock offset: 0.157 ms
Remote clock offset: 26.688 ms

Below is generated by plot.py at 2018-02-05 03:04:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 220.318 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 220.462 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 220.903 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 215.486 ms
Loss rate: 2.12%

Run 1: Report of TCP Cubic — Data Link

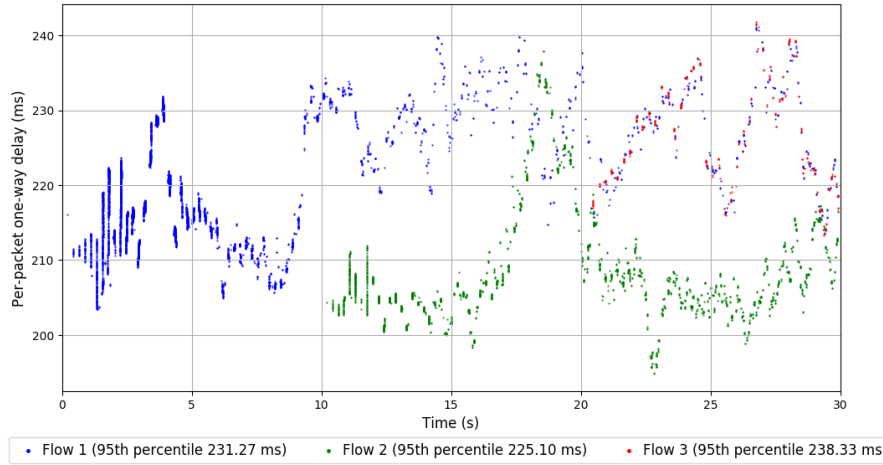
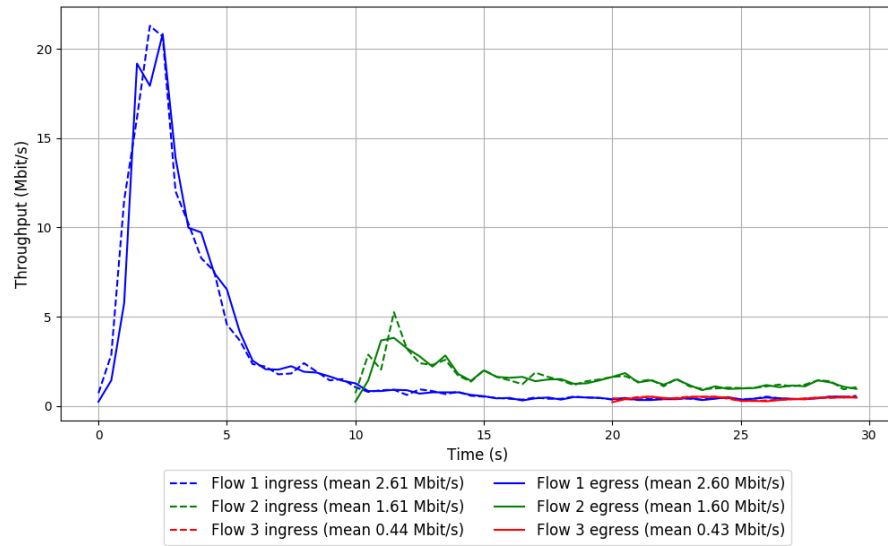


Run 2: Statistics of TCP Cubic

Start at: 2018-02-04 18:30:02
End at: 2018-02-04 18:30:32
Local clock offset: 3.7 ms
Remote clock offset: 23.812 ms

Below is generated by plot.py at 2018-02-05 03:04:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 231.347 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 231.273 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 225.097 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 238.331 ms
Loss rate: 4.68%

Run 2: Report of TCP Cubic — Data Link

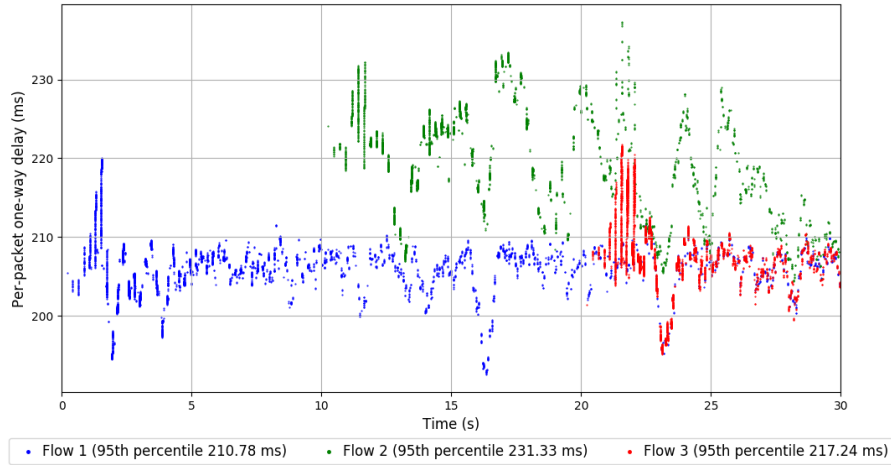
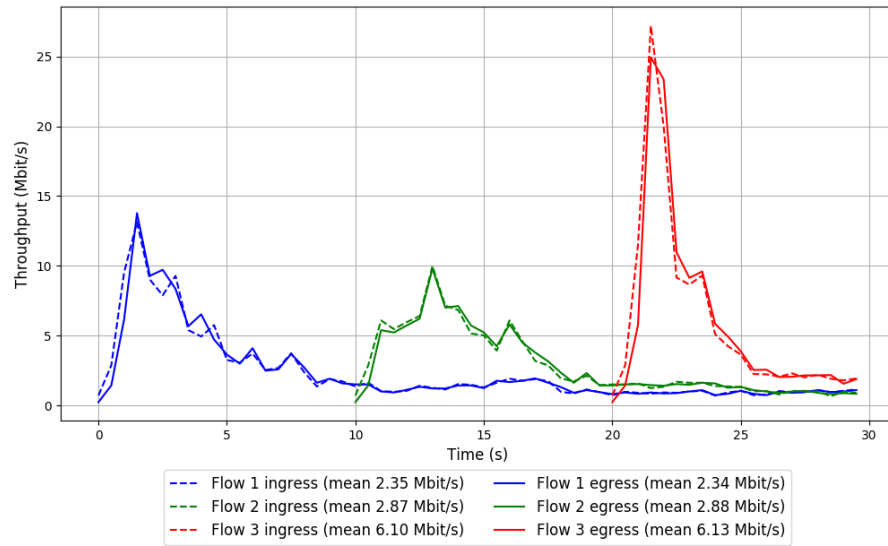


Run 3: Statistics of TCP Cubic

Start at: 2018-02-04 19:09:17
End at: 2018-02-04 19:09:47
Local clock offset: 2.458 ms
Remote clock offset: 18.495 ms

Below is generated by plot.py at 2018-02-05 03:04:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 226.381 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 210.777 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 231.329 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 217.237 ms
Loss rate: 1.54%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-04 19:46:19

End at: 2018-02-04 19:46:49

Local clock offset: 3.221 ms

Remote clock offset: 9.183 ms

Below is generated by plot.py at 2018-02-05 03:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.76 Mbit/s

95th percentile per-packet one-way delay: 253.801 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 14.69 Mbit/s

95th percentile per-packet one-way delay: 256.407 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 247.719 ms

Loss rate: 2.49%

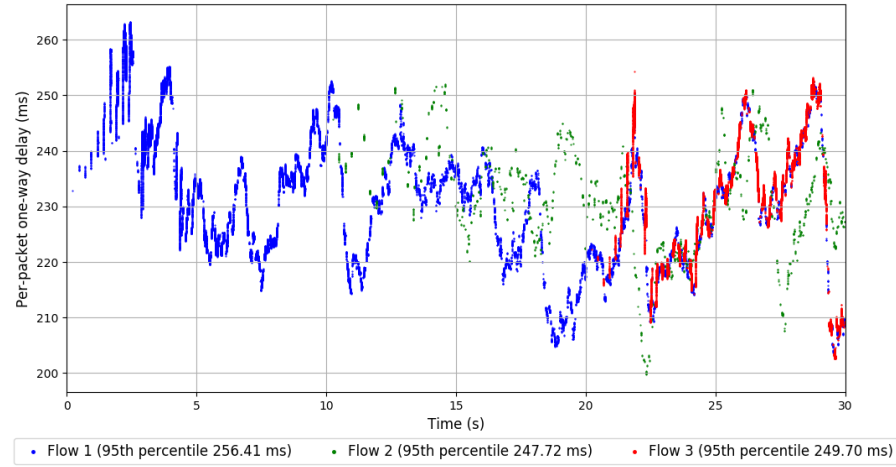
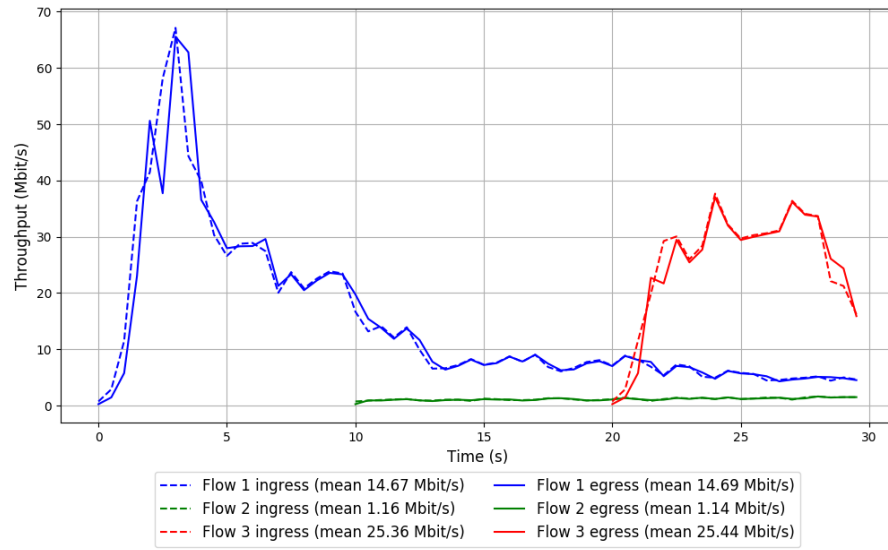
-- Flow 3:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 249.701 ms

Loss rate: 1.90%

Run 4: Report of TCP Cubic — Data Link

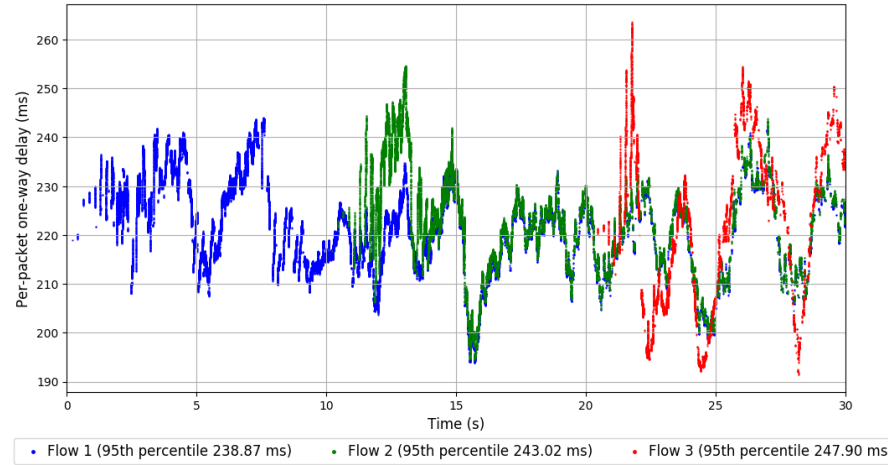
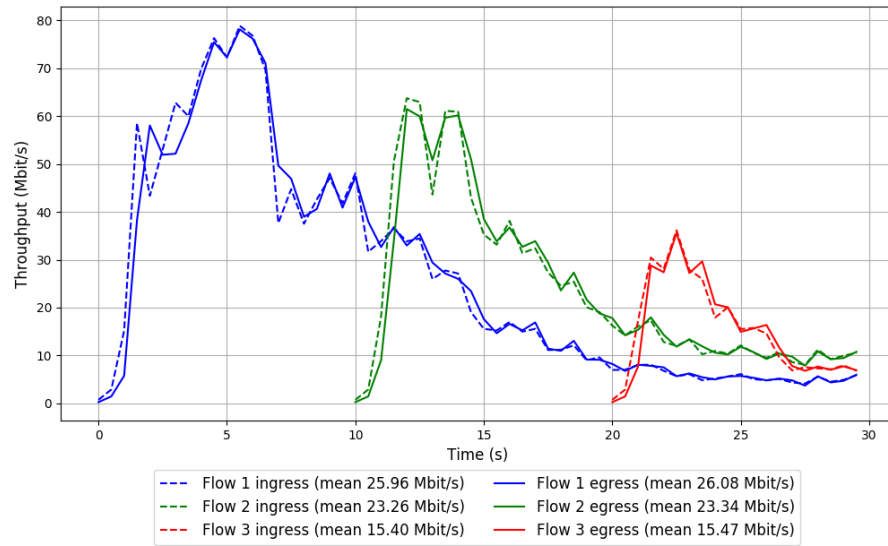


Run 5: Statistics of TCP Cubic

Start at: 2018-02-04 20:14:26
End at: 2018-02-04 20:14:56
Local clock offset: -1.2 ms
Remote clock offset: -2.907 ms

Below is generated by plot.py at 2018-02-05 03:04:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 240.931 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 26.08 Mbit/s
95th percentile per-packet one-way delay: 238.872 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 243.024 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 15.47 Mbit/s
95th percentile per-packet one-way delay: 247.900 ms
Loss rate: 1.67%

Run 5: Report of TCP Cubic — Data Link

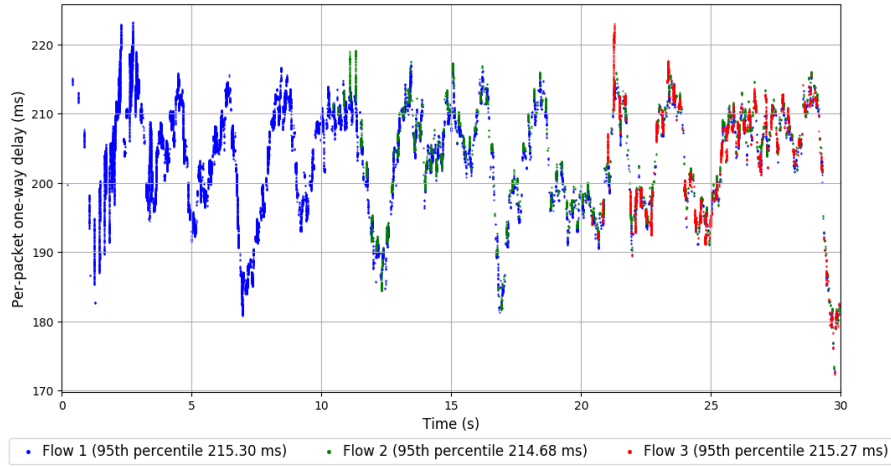
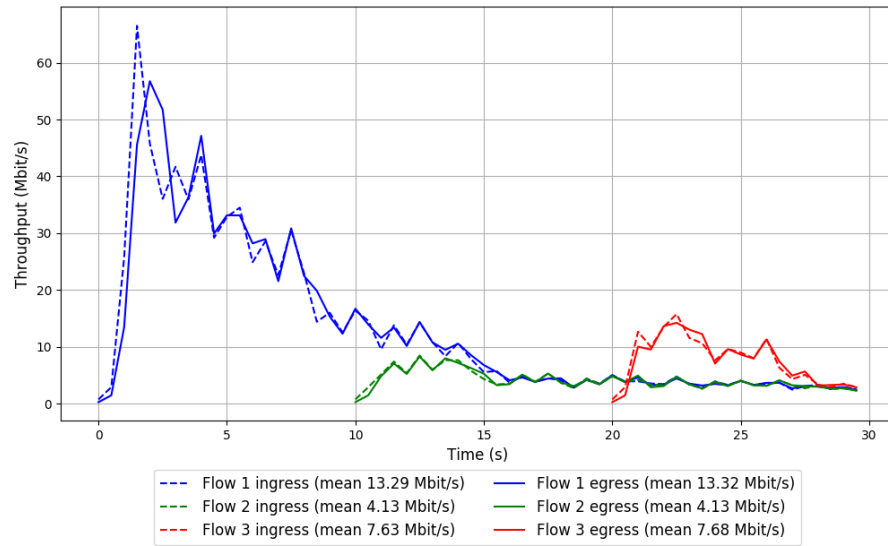


Run 6: Statistics of TCP Cubic

Start at: 2018-02-04 20:45:45
End at: 2018-02-04 20:46:15
Local clock offset: 2.705 ms
Remote clock offset: 15.536 ms

Below is generated by plot.py at 2018-02-05 03:04:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.57 Mbit/s
95th percentile per-packet one-way delay: 215.243 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 215.298 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 214.679 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 215.266 ms
Loss rate: 1.40%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-04 21:17:15

End at: 2018-02-04 21:17:45

Local clock offset: 3.337 ms

Remote clock offset: 2.113 ms

Below is generated by plot.py at 2018-02-05 03:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.95 Mbit/s

95th percentile per-packet one-way delay: 229.494 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 229.661 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 227.915 ms

Loss rate: 1.49%

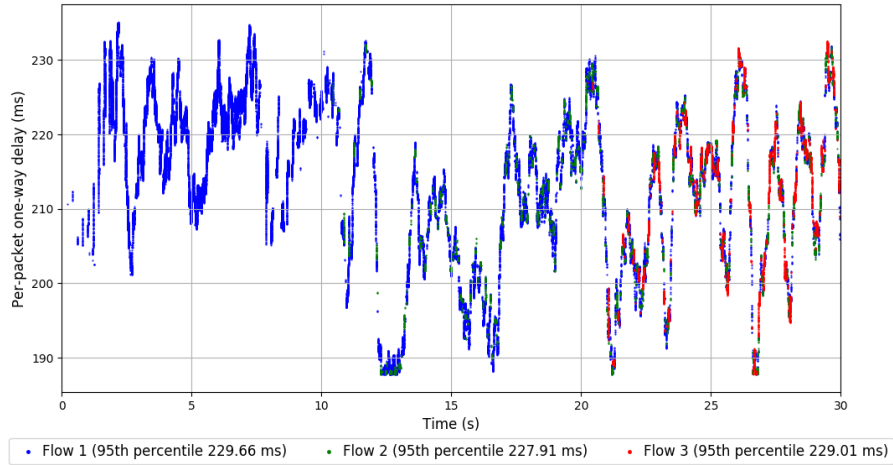
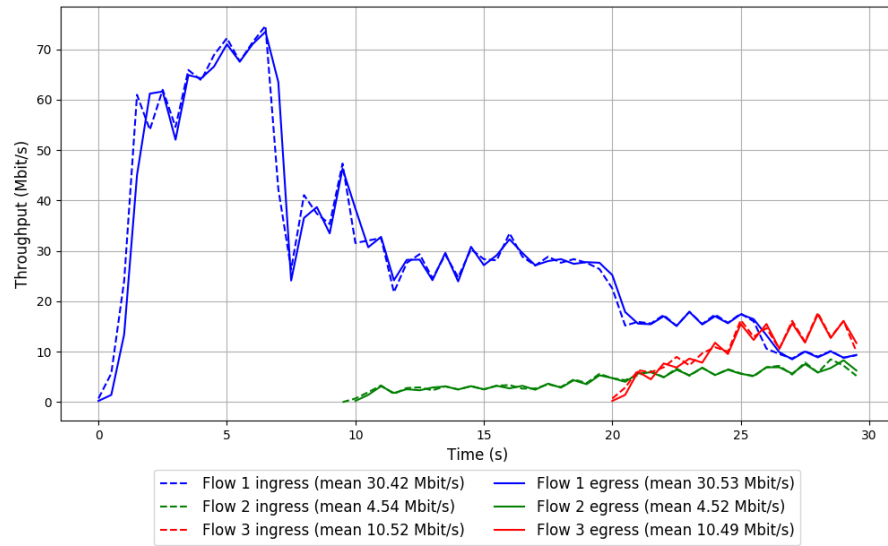
-- Flow 3:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 229.015 ms

Loss rate: 2.41%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-04 21:47:41

End at: 2018-02-04 21:48:11

Local clock offset: 1.234 ms

Remote clock offset: 3.508 ms

Below is generated by plot.py at 2018-02-05 03:04:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 256.637 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 53.70 Mbit/s

95th percentile per-packet one-way delay: 243.924 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 263.373 ms

Loss rate: 0.92%

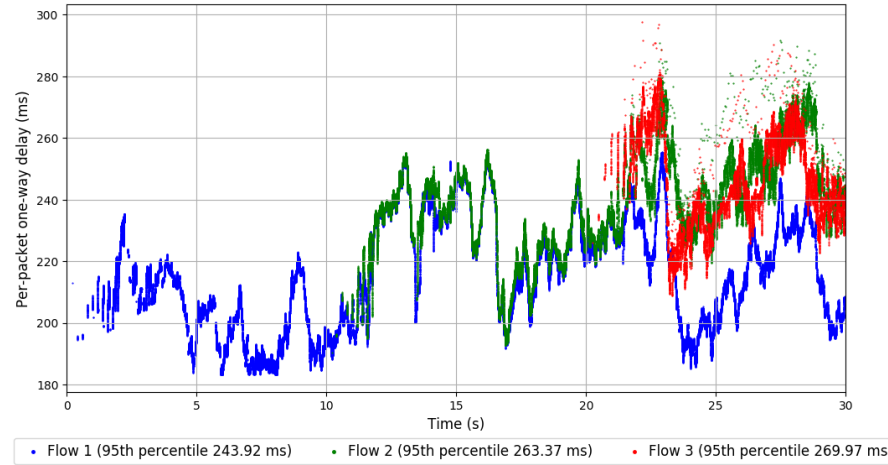
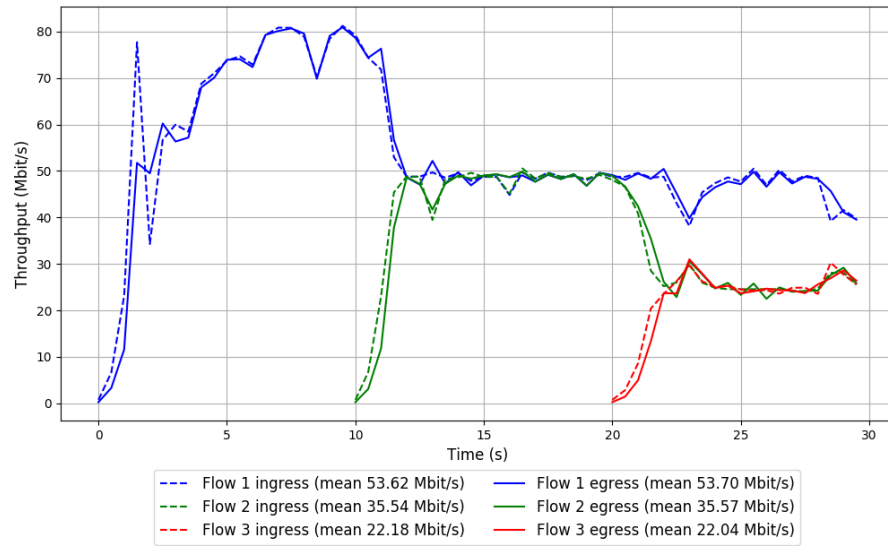
-- Flow 3:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 269.972 ms

Loss rate: 3.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-04 22:14:21

End at: 2018-02-04 22:14:51

Local clock offset: 2.231 ms

Remote clock offset: 4.474 ms

Below is generated by plot.py at 2018-02-05 03:04:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 227.615 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 223.217 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 228.571 ms

Loss rate: 1.63%

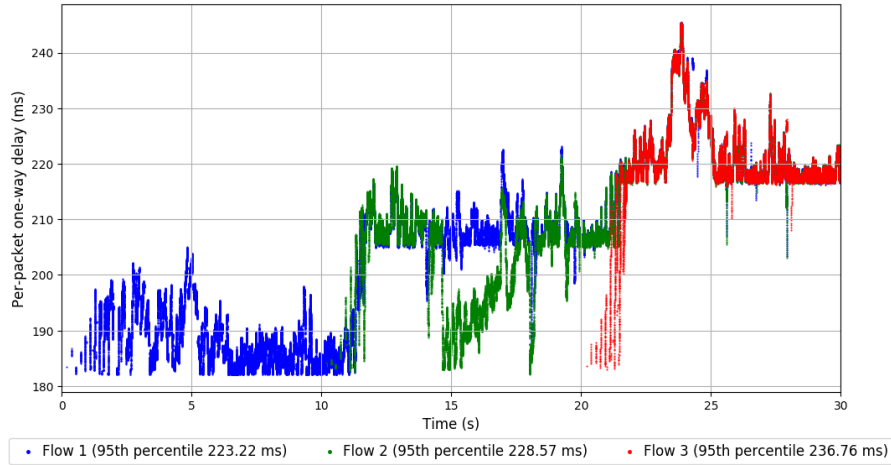
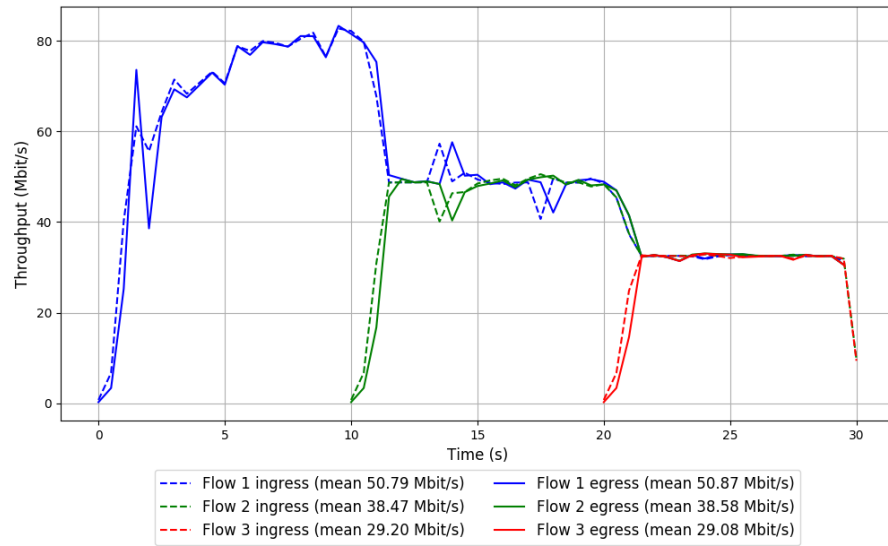
-- Flow 3:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 236.758 ms

Loss rate: 4.20%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-04 22:39:35

End at: 2018-02-04 22:40:05

Local clock offset: 4.987 ms

Remote clock offset: 5.995 ms

Below is generated by plot.py at 2018-02-05 03:04:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.75 Mbit/s

95th percentile per-packet one-way delay: 243.391 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 246.453 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 236.920 ms

Loss rate: 0.79%

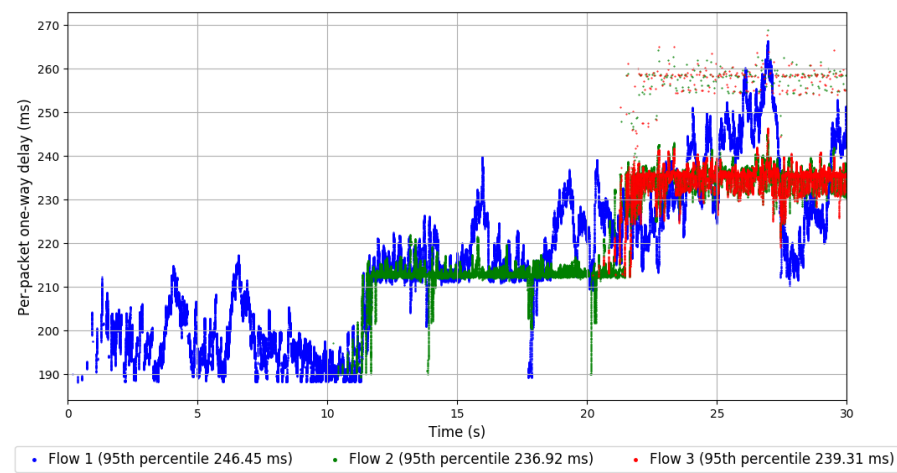
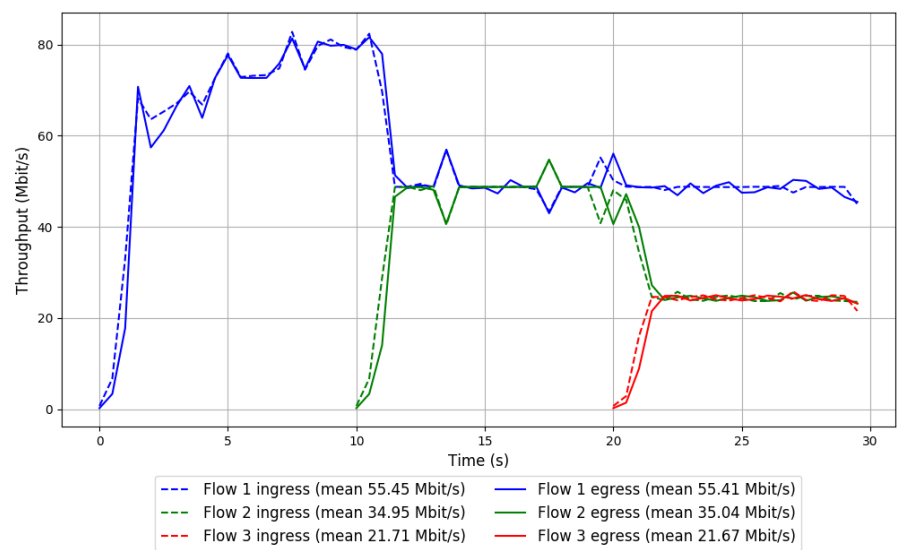
-- Flow 3:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 239.308 ms

Loss rate: 2.51%

Run 10: Report of TCP Cubic — Data Link

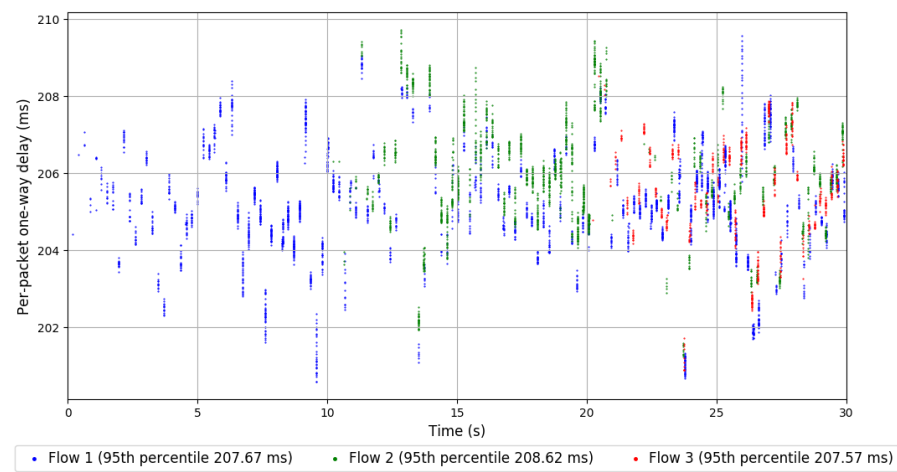
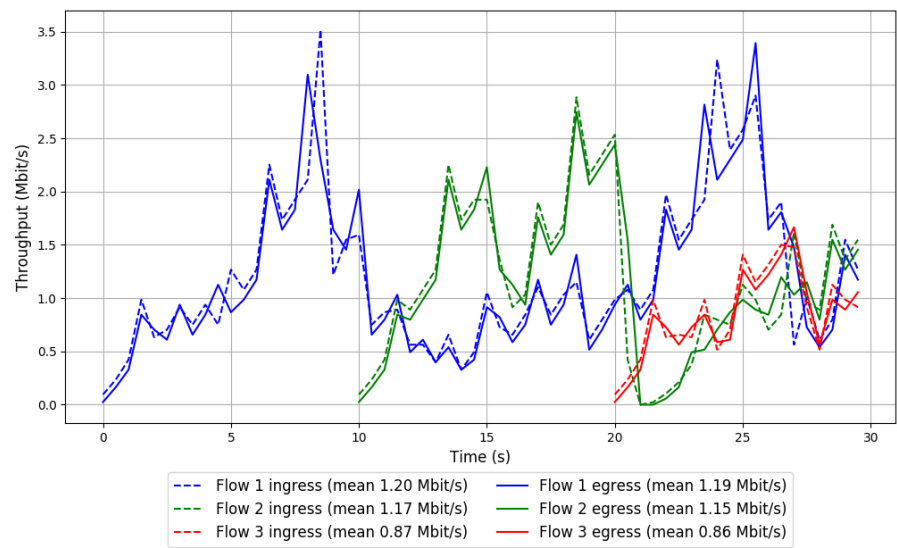


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-04 17:28:27
End at: 2018-02-04 17:28:57
Local clock offset: 1.776 ms
Remote clock offset: 39.022 ms

# Below is generated by plot.py at 2018-02-05 03:04:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 207.999 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 207.668 ms
Loss rate: 2.05%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 208.618 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 207.572 ms
Loss rate: 3.28%
```


Run 1: Report of LEDBAT — Data Link

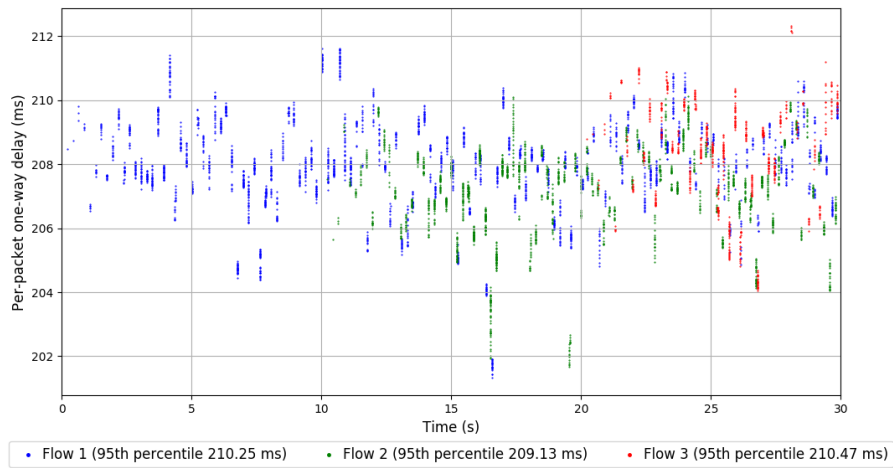
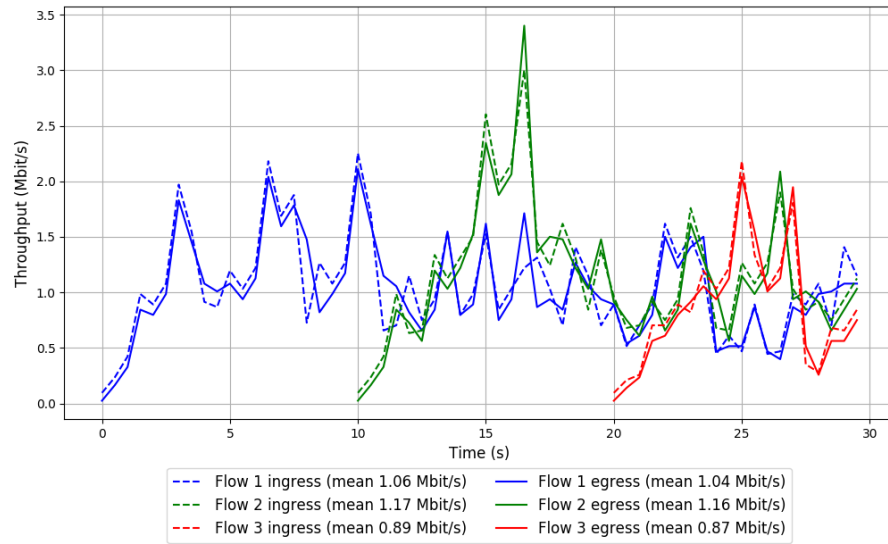


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-04 18:12:16
End at: 2018-02-04 18:12:46
Local clock offset: 2.21 ms
Remote clock offset: 21.15 ms

# Below is generated by plot.py at 2018-02-05 03:04:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 209.981 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 210.245 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 209.134 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 210.470 ms
Loss rate: 4.55%
```

Run 2: Report of LEDBAT — Data Link

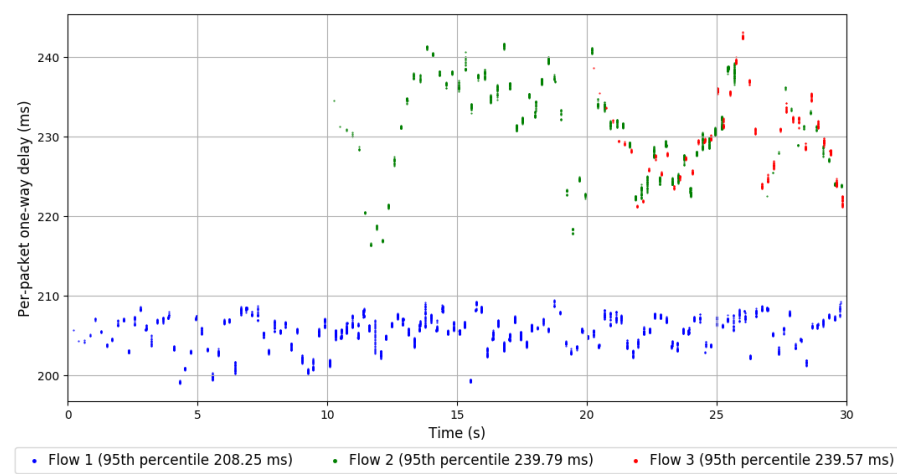
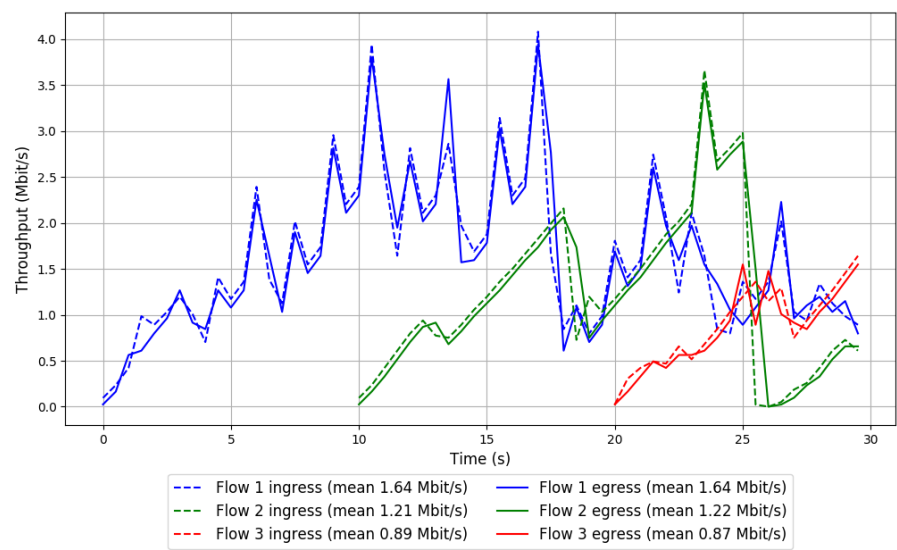


Run 3: Statistics of LEDBAT

Start at: 2018-02-04 18:53:46
End at: 2018-02-04 18:54:16
Local clock offset: 4.426 ms
Remote clock offset: 20.759 ms

Below is generated by plot.py at 2018-02-05 03:04:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 237.982 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 208.250 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 239.793 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 239.570 ms
Loss rate: 5.33%

Run 3: Report of LEDBAT — Data Link

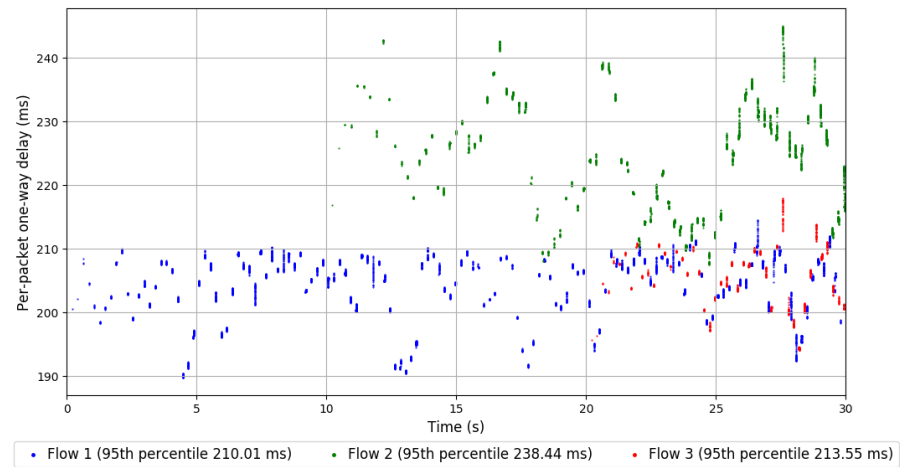
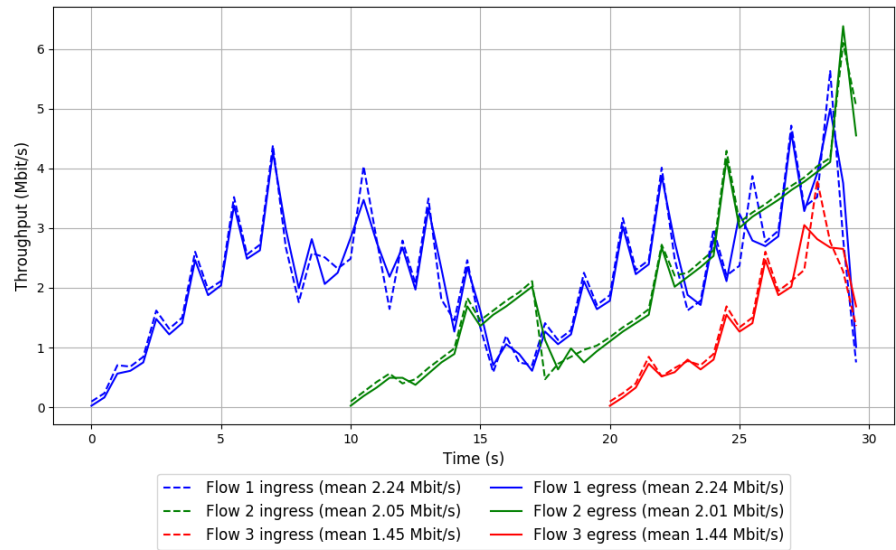


Run 4: Statistics of LEDBAT

Start at: 2018-02-04 19:33:20
End at: 2018-02-04 19:33:50
Local clock offset: 1.04 ms
Remote clock offset: 17.064 ms

Below is generated by plot.py at 2018-02-05 03:04:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 234.052 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 210.012 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 238.440 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 213.554 ms
Loss rate: 2.69%

Run 4: Report of LEDBAT — Data Link

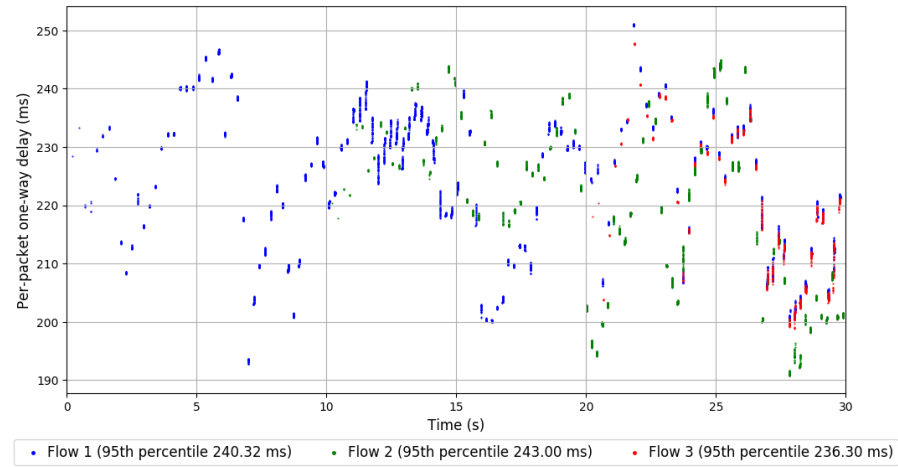
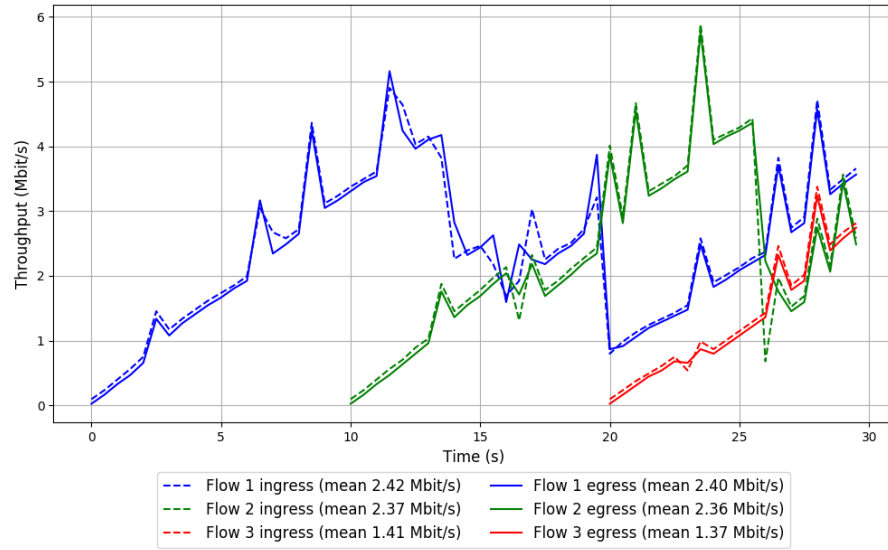


Run 5: Statistics of LEDBAT

Start at: 2018-02-04 20:03:21
End at: 2018-02-04 20:03:51
Local clock offset: 1.953 ms
Remote clock offset: 15.368 ms

Below is generated by plot.py at 2018-02-05 03:04:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 241.312 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 240.325 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 243.005 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 236.304 ms
Loss rate: 5.29%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-04 20:33:20

End at: 2018-02-04 20:33:50

Local clock offset: 3.524 ms

Remote clock offset: 3.196 ms

Below is generated by plot.py at 2018-02-05 03:04:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 226.502 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 226.650 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 225.718 ms

Loss rate: 1.19%

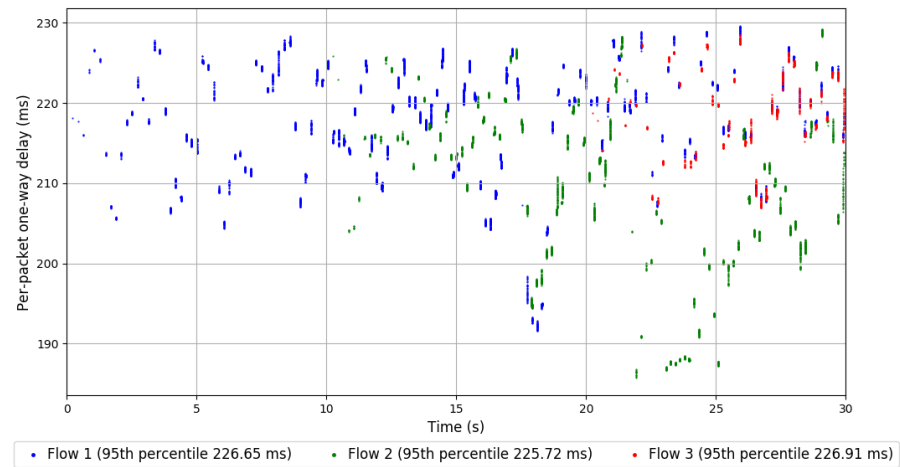
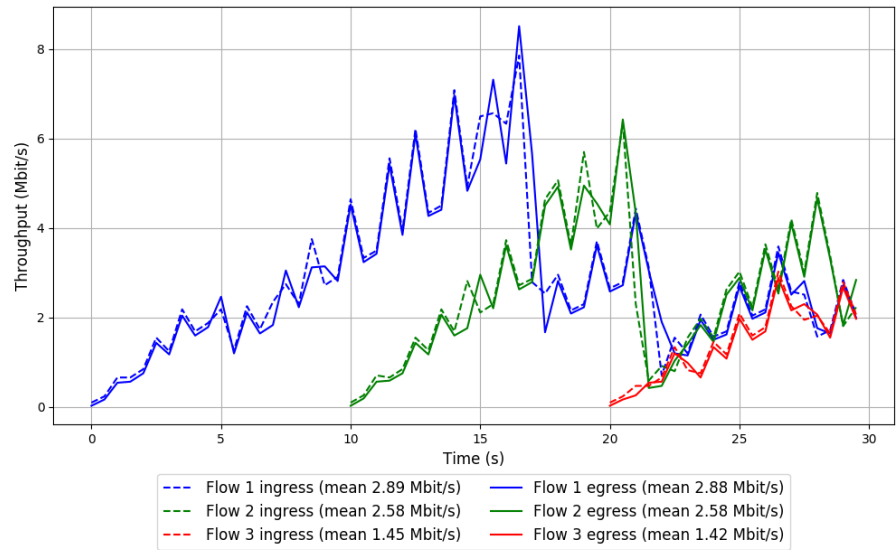
-- Flow 3:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 226.912 ms

Loss rate: 3.92%

Run 6: Report of LEDBAT — Data Link

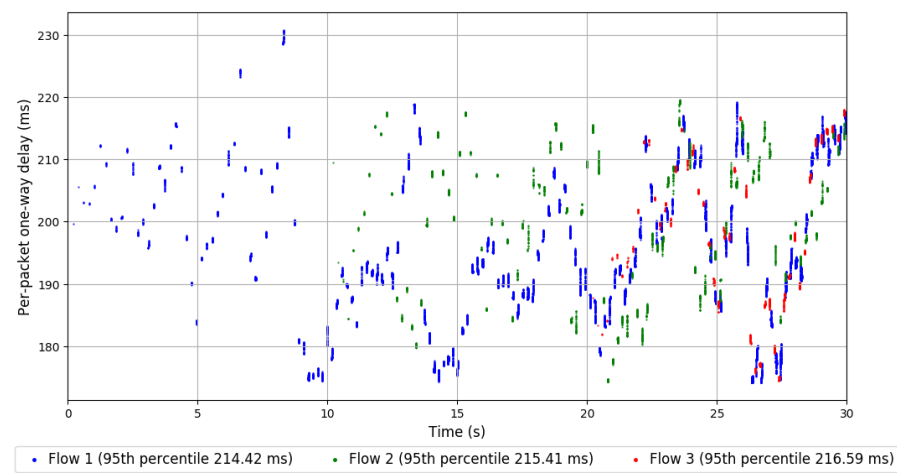
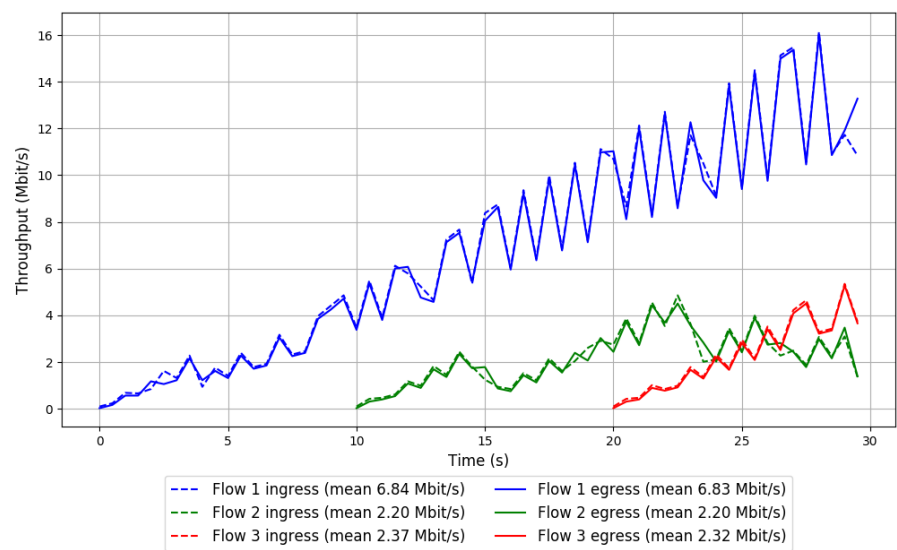


Run 7: Statistics of LEDBAT

Start at: 2018-02-04 21:04:56
End at: 2018-02-04 21:05:26
Local clock offset: 4.954 ms
Remote clock offset: 16.014 ms

Below is generated by plot.py at 2018-02-05 03:04:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 214.834 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 214.424 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 215.406 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 216.588 ms
Loss rate: 4.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-04 21:35:41

End at: 2018-02-04 21:36:11

Local clock offset: 0.482 ms

Remote clock offset: 3.11 ms

Below is generated by plot.py at 2018-02-05 03:04:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 228.076 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 227.769 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 228.078 ms

Loss rate: 1.97%

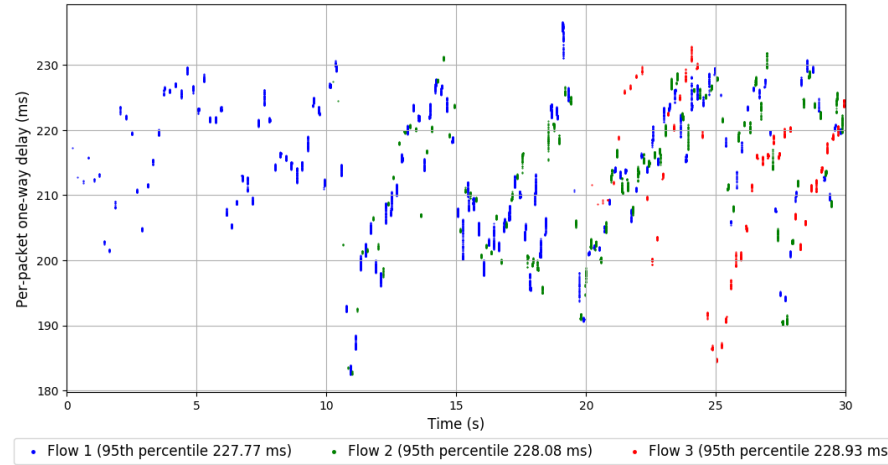
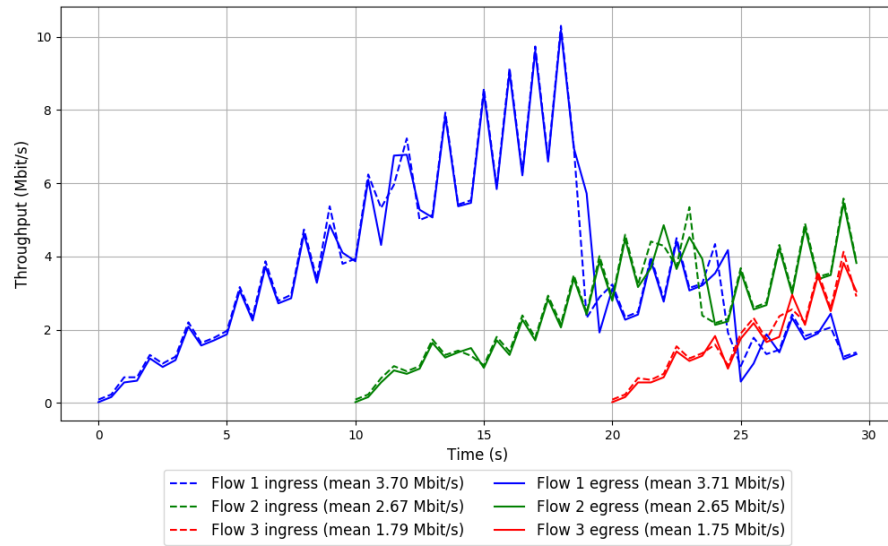
-- Flow 3:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 228.930 ms

Loss rate: 4.23%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-04 22:04:26

End at: 2018-02-04 22:04:56

Local clock offset: 2.964 ms

Remote clock offset: 5.163 ms

Below is generated by plot.py at 2018-02-05 03:04:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 194.953 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 194.756 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 194.756 ms

Loss rate: 1.84%

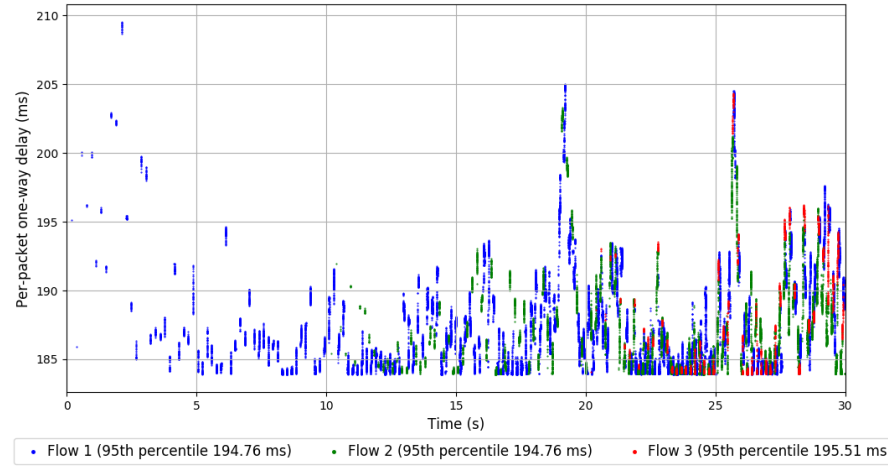
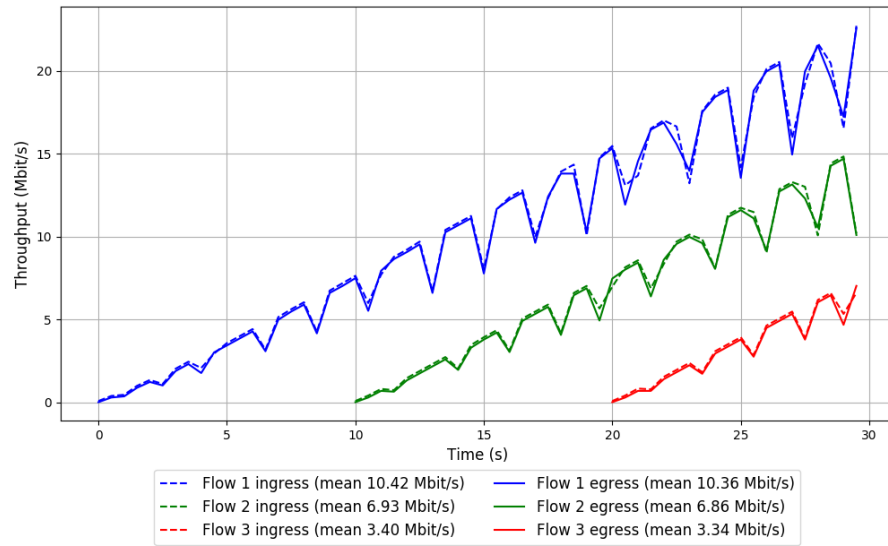
-- Flow 3:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 195.507 ms

Loss rate: 3.70%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-04 22:29:53

End at: 2018-02-04 22:30:23

Local clock offset: 1.958 ms

Remote clock offset: 4.192 ms

Below is generated by plot.py at 2018-02-05 03:04:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.05 Mbit/s

95th percentile per-packet one-way delay: 191.356 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 187.625 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 195.928 ms

Loss rate: 1.82%

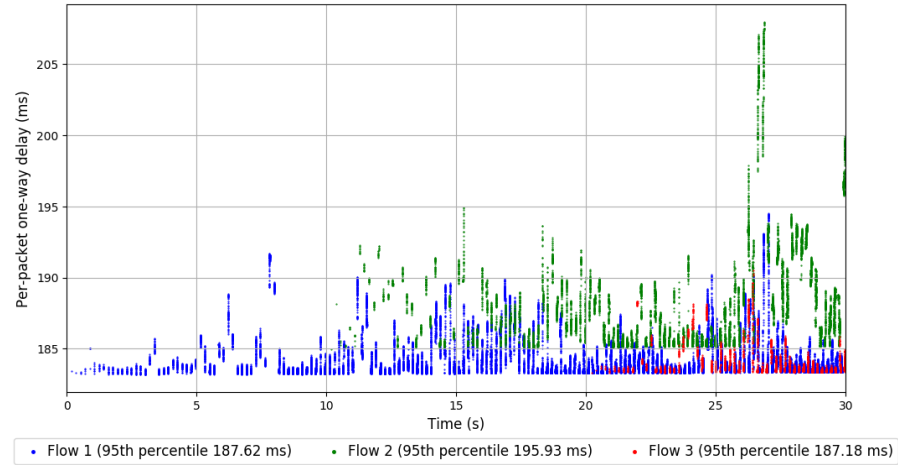
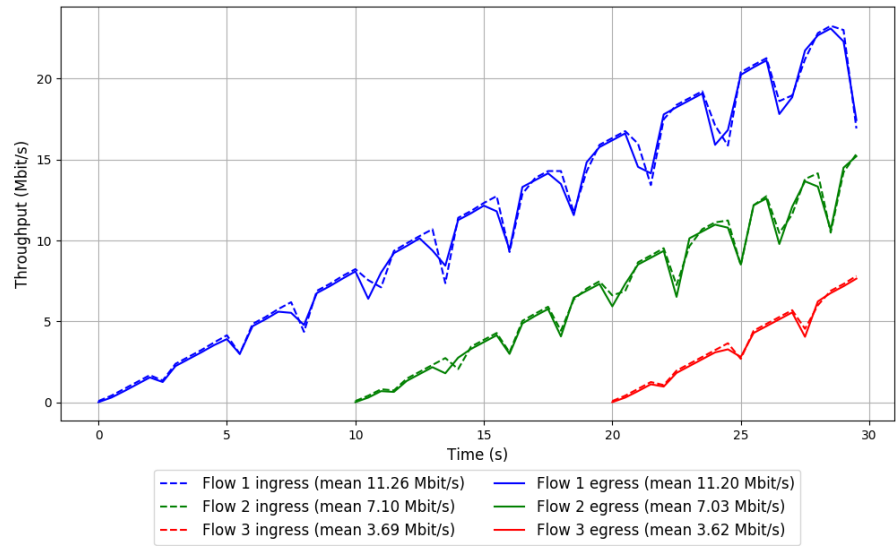
-- Flow 3:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 187.175 ms

Loss rate: 3.61%

Run 10: Report of LEDBAT — Data Link

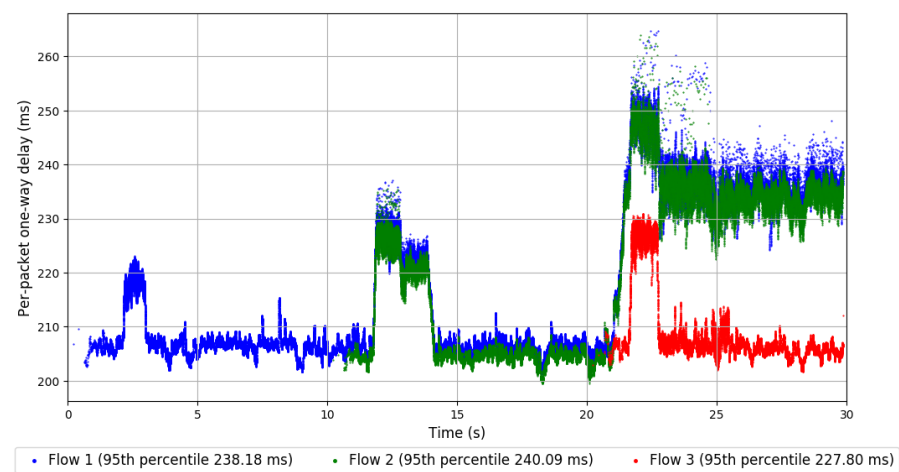
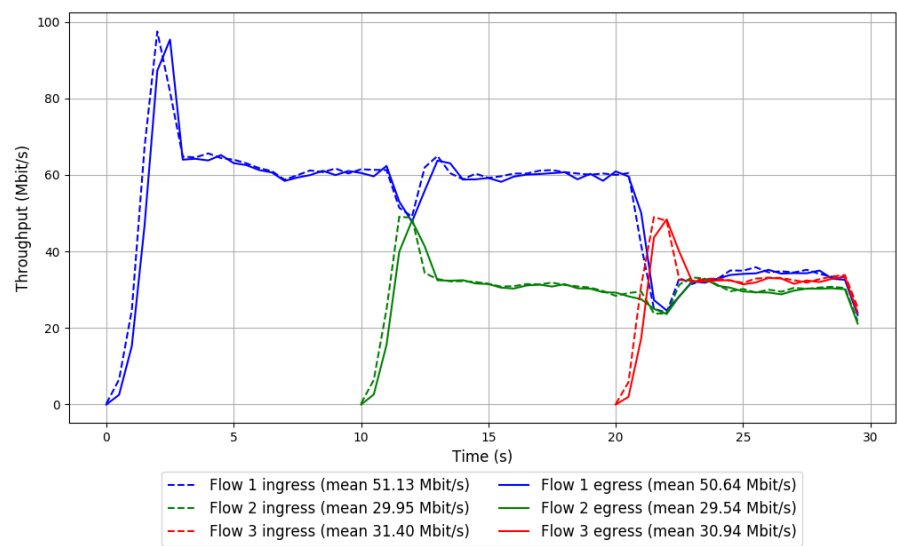


```
Run 1: Statistics of PCC

Start at: 2018-02-04 17:33:16
End at: 2018-02-04 17:33:46
Local clock offset: 2.892 ms
Remote clock offset: 34.17 ms

# Below is generated by plot.py at 2018-02-05 03:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 238.058 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 50.64 Mbit/s
95th percentile per-packet one-way delay: 238.178 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 240.092 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 227.800 ms
Loss rate: 3.57%
```

Run 1: Report of PCC — Data Link

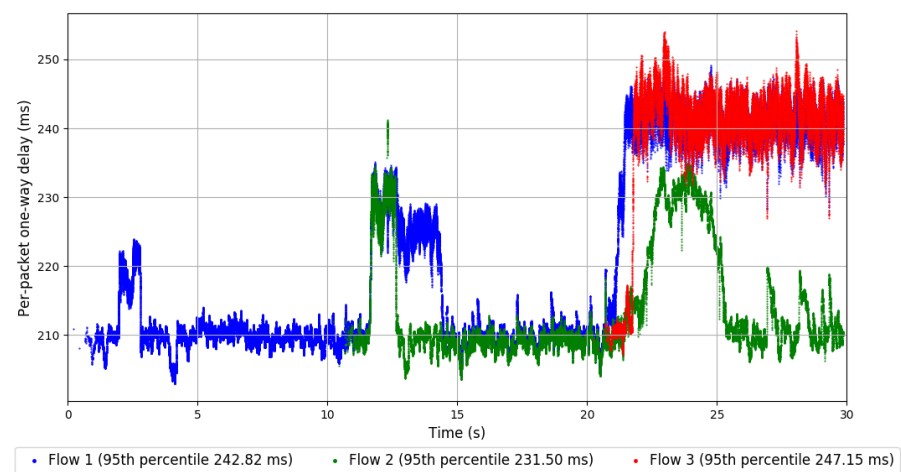
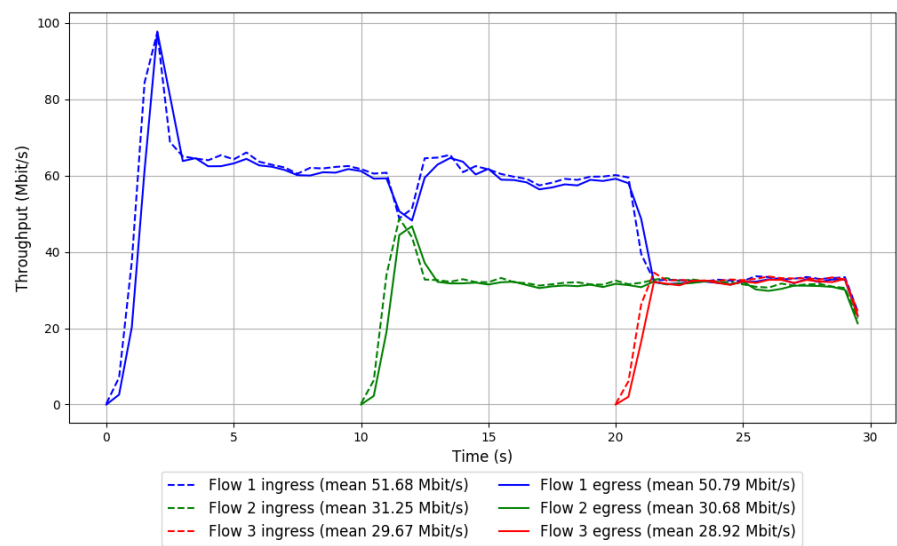


Run 2: Statistics of PCC

Start at: 2018-02-04 18:18:02
End at: 2018-02-04 18:18:32
Local clock offset: 4.903 ms
Remote clock offset: 21.343 ms

Below is generated by plot.py at 2018-02-05 03:05:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.50 Mbit/s
95th percentile per-packet one-way delay: 243.755 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 50.79 Mbit/s
95th percentile per-packet one-way delay: 242.825 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 231.505 ms
Loss rate: 2.91%
-- Flow 3:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 247.146 ms
Loss rate: 4.73%

Run 2: Report of PCC — Data Link

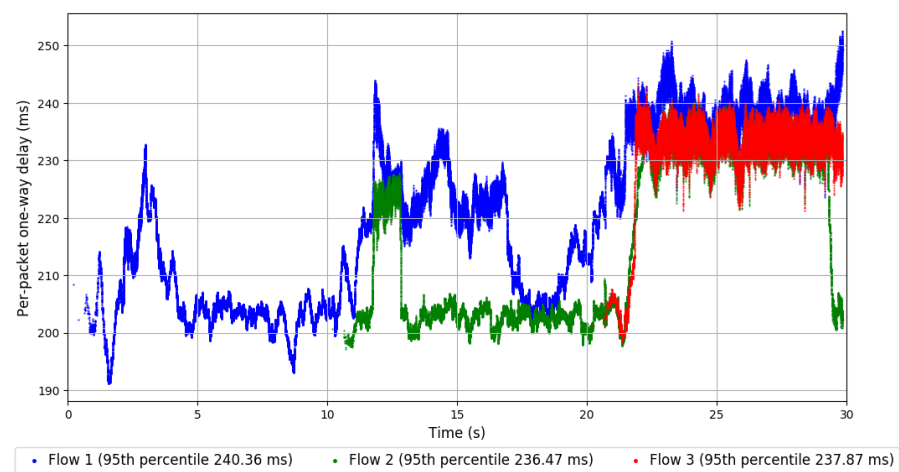
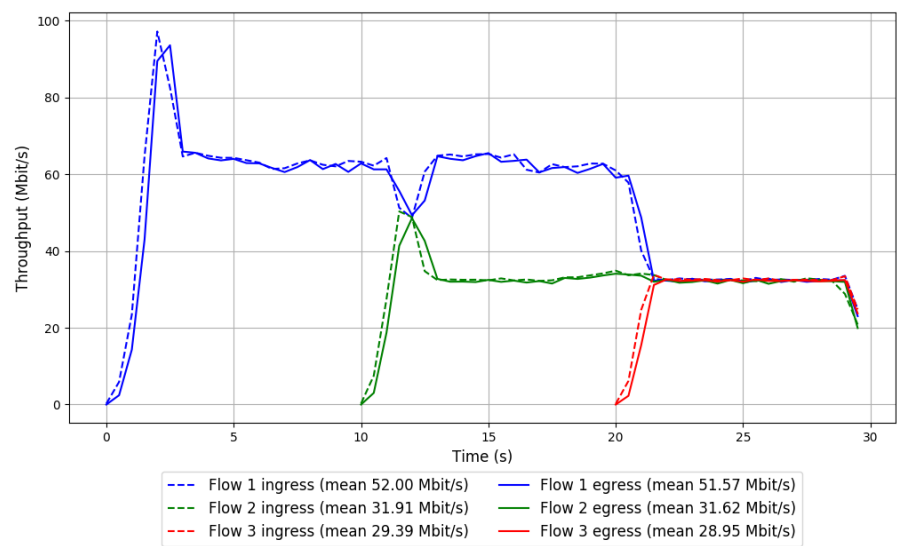


Run 3: Statistics of PCC

Start at: 2018-02-04 18:59:02
End at: 2018-02-04 18:59:32
Local clock offset: 0.663 ms
Remote clock offset: 21.713 ms

Below is generated by plot.py at 2018-02-05 03:05:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 238.915 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 240.360 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 236.465 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 28.95 Mbit/s
95th percentile per-packet one-way delay: 237.865 ms
Loss rate: 3.73%

Run 3: Report of PCC — Data Link

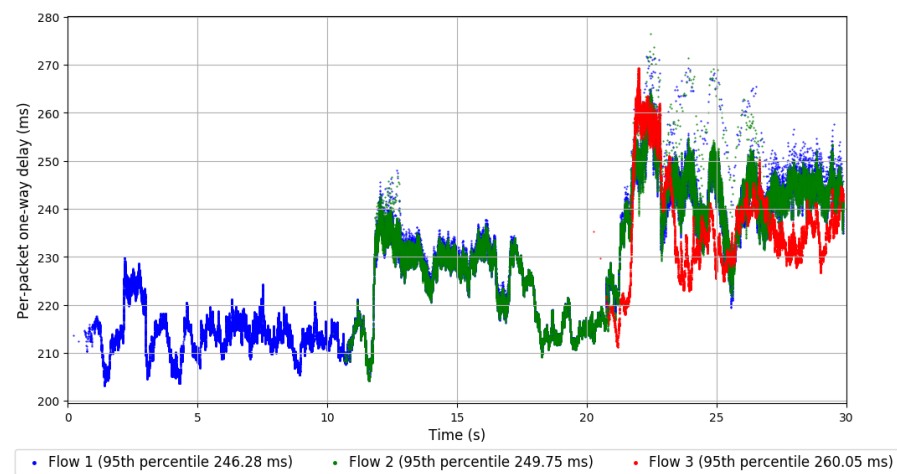
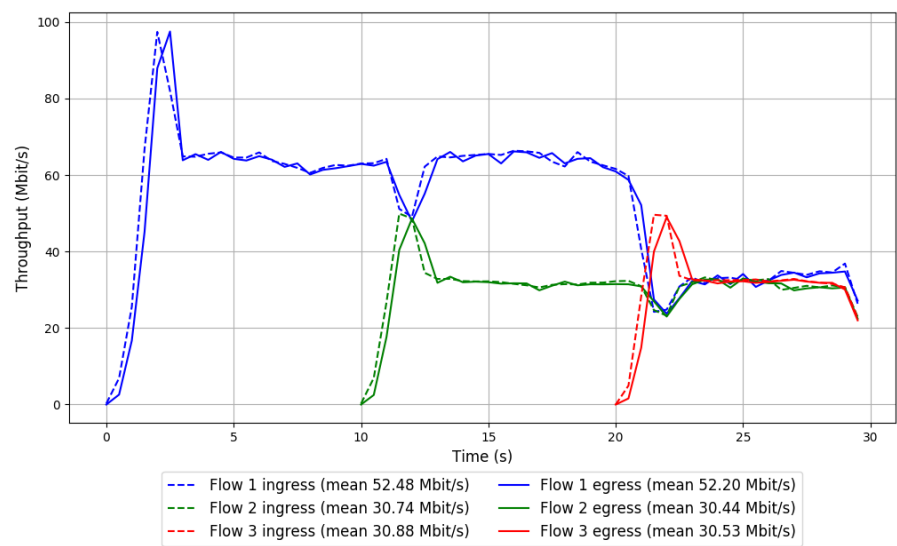


Run 4: Statistics of PCC

Start at: 2018-02-04 19:37:11
End at: 2018-02-04 19:37:41
Local clock offset: 2.059 ms
Remote clock offset: 11.695 ms

Below is generated by plot.py at 2018-02-05 03:05:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 249.142 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 52.20 Mbit/s
95th percentile per-packet one-way delay: 246.283 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 30.44 Mbit/s
95th percentile per-packet one-way delay: 249.750 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 30.53 Mbit/s
95th percentile per-packet one-way delay: 260.045 ms
Loss rate: 3.52%

Run 4: Report of PCC — Data Link

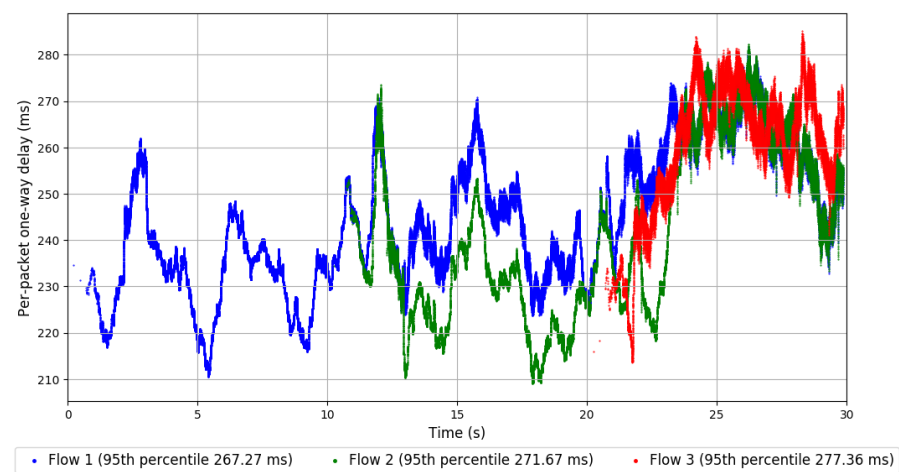
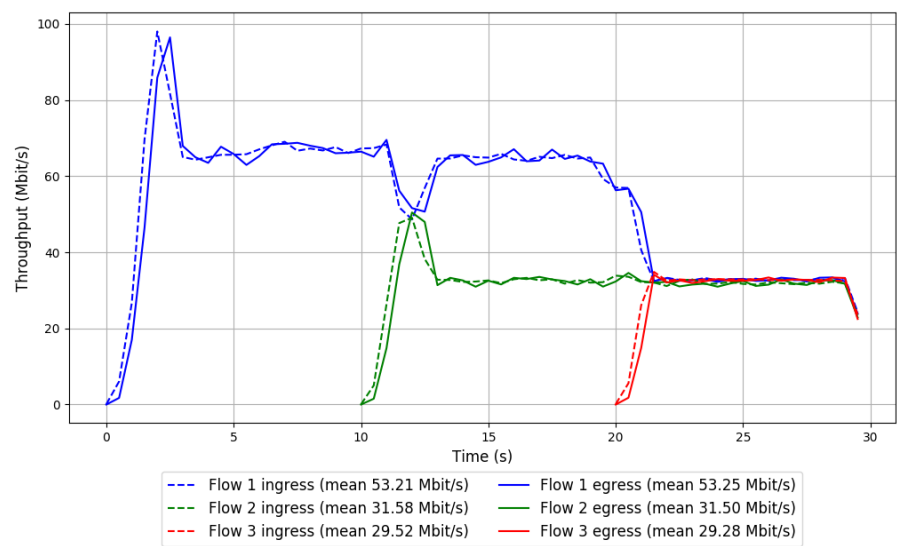


Run 5: Statistics of PCC

Start at: 2018-02-04 20:06:11
End at: 2018-02-04 20:06:41
Local clock offset: 0.502 ms
Remote clock offset: 12.777 ms

Below is generated by plot.py at 2018-02-05 03:05:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 271.531 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 53.25 Mbit/s
95th percentile per-packet one-way delay: 267.271 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 271.665 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 29.28 Mbit/s
95th percentile per-packet one-way delay: 277.357 ms
Loss rate: 3.18%

Run 5: Report of PCC — Data Link

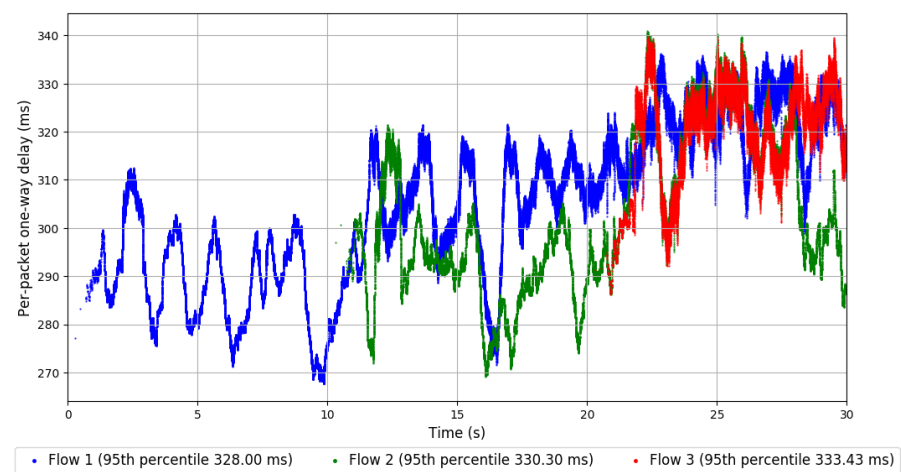
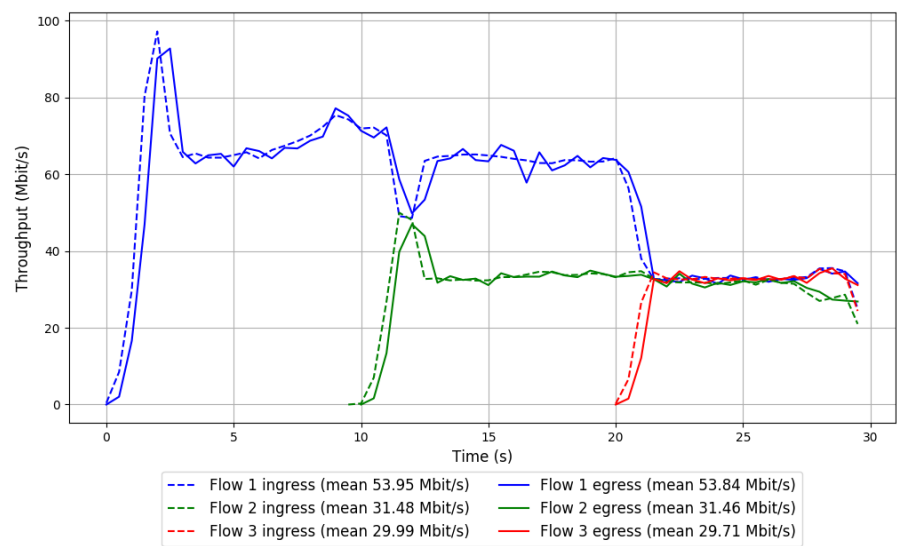


Run 6: Statistics of PCC

Start at: 2018-02-04 20:37:09
End at: 2018-02-04 20:37:39
Local clock offset: 0.443 ms
Remote clock offset: -73.509 ms

Below is generated by plot.py at 2018-02-05 03:05:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.32 Mbit/s
95th percentile per-packet one-way delay: 329.909 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 53.84 Mbit/s
95th percentile per-packet one-way delay: 328.001 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 330.298 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 29.71 Mbit/s
95th percentile per-packet one-way delay: 333.428 ms
Loss rate: 2.98%

Run 6: Report of PCC — Data Link

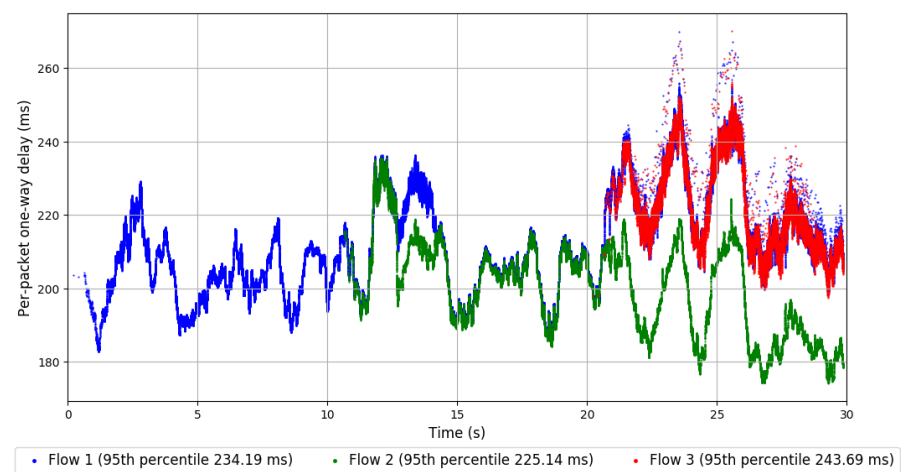
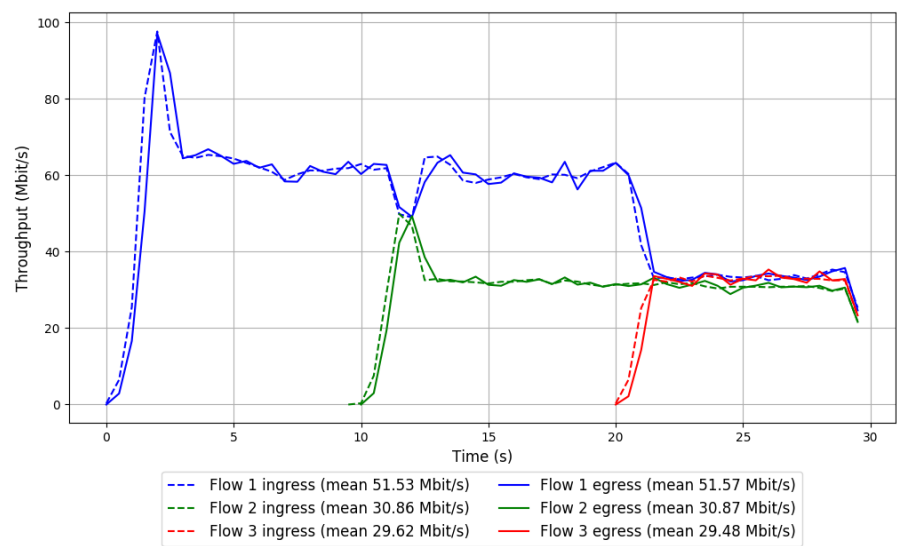


Run 7: Statistics of PCC

Start at: 2018-02-04 21:09:15
End at: 2018-02-04 21:09:45
Local clock offset: 3.135 ms
Remote clock offset: 15.223 ms

Below is generated by plot.py at 2018-02-05 03:05:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.61 Mbit/s
95th percentile per-packet one-way delay: 236.225 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 234.194 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 30.87 Mbit/s
95th percentile per-packet one-way delay: 225.136 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 243.690 ms
Loss rate: 2.50%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-04 21:39:11

End at: 2018-02-04 21:39:41

Local clock offset: 0.491 ms

Remote clock offset: 2.916 ms

Below is generated by plot.py at 2018-02-05 03:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 243.429 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 241.487 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 33.33 Mbit/s

95th percentile per-packet one-way delay: 228.065 ms

Loss rate: 1.21%

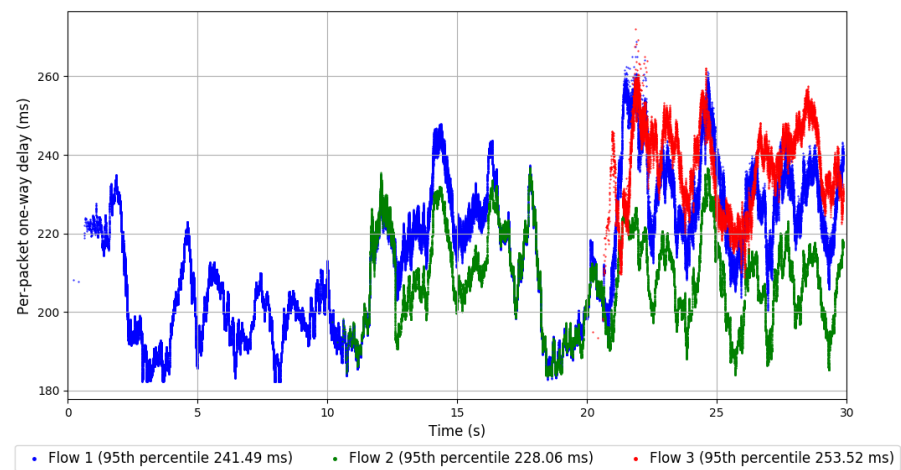
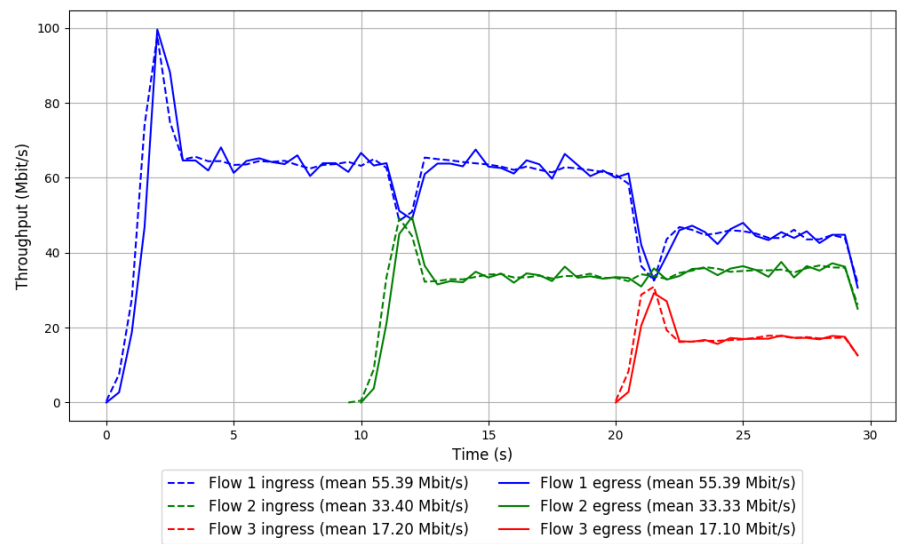
-- Flow 3:

Average throughput: 17.10 Mbit/s

95th percentile per-packet one-way delay: 253.519 ms

Loss rate: 2.48%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-04 22:07:11

End at: 2018-02-04 22:07:41

Local clock offset: 3.001 ms

Remote clock offset: 2.827 ms

Below is generated by plot.py at 2018-02-05 03:06:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.74 Mbit/s

95th percentile per-packet one-way delay: 244.180 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 246.648 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 235.702 ms

Loss rate: 1.17%

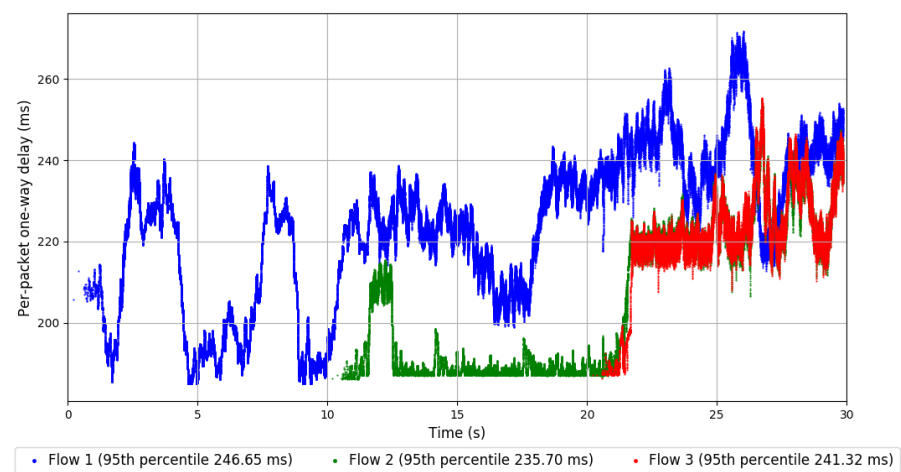
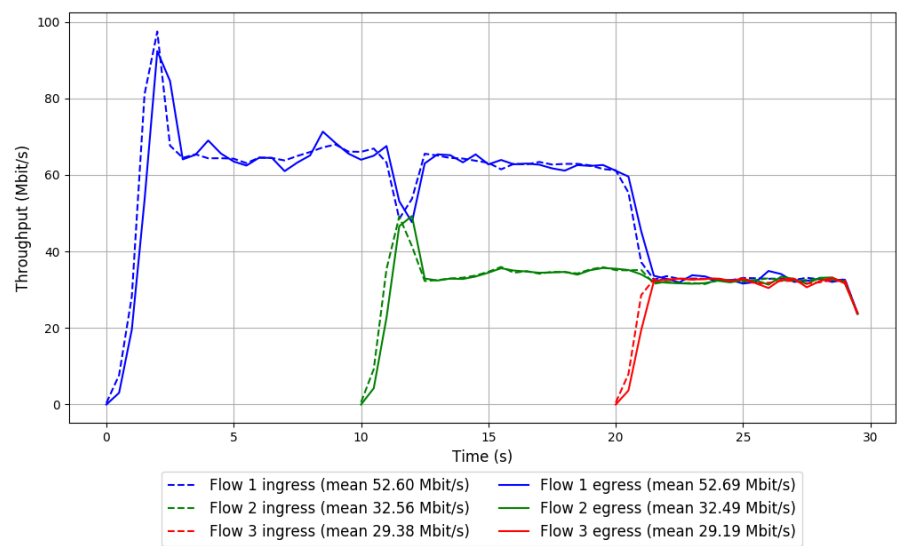
-- Flow 3:

Average throughput: 29.19 Mbit/s

95th percentile per-packet one-way delay: 241.319 ms

Loss rate: 2.60%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-04 22:32:33

End at: 2018-02-04 22:33:03

Local clock offset: 3.94 ms

Remote clock offset: 6.346 ms

Below is generated by plot.py at 2018-02-05 03:06:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.95 Mbit/s

95th percentile per-packet one-way delay: 242.836 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 56.87 Mbit/s

95th percentile per-packet one-way delay: 233.978 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 247.607 ms

Loss rate: 1.12%

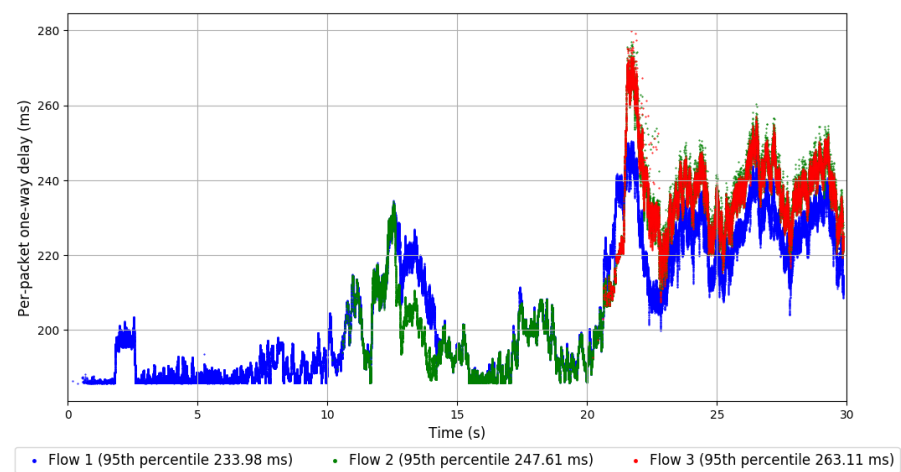
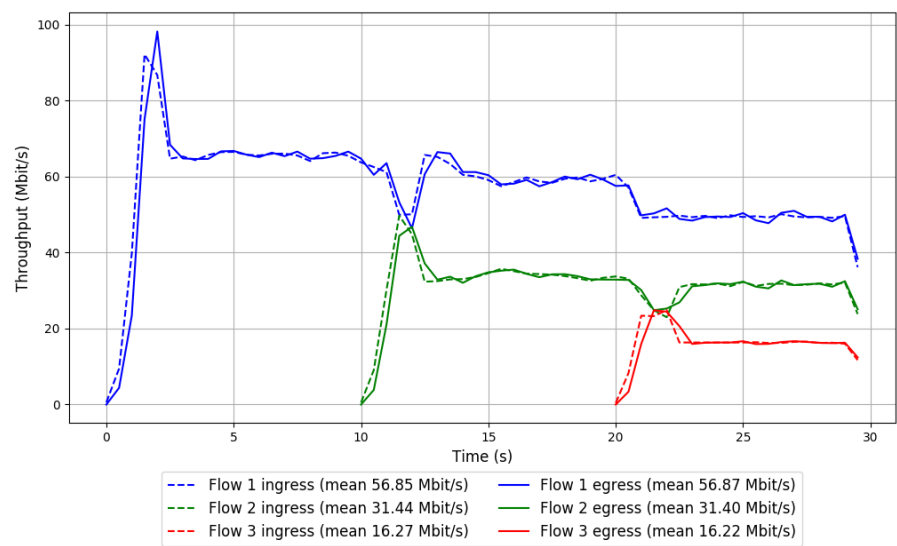
-- Flow 3:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 263.110 ms

Loss rate: 2.15%

Run 10: Report of PCC — Data Link

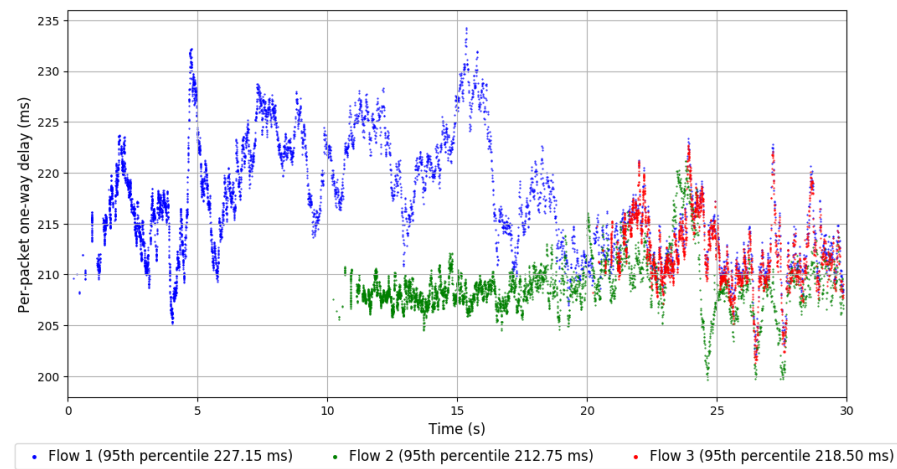
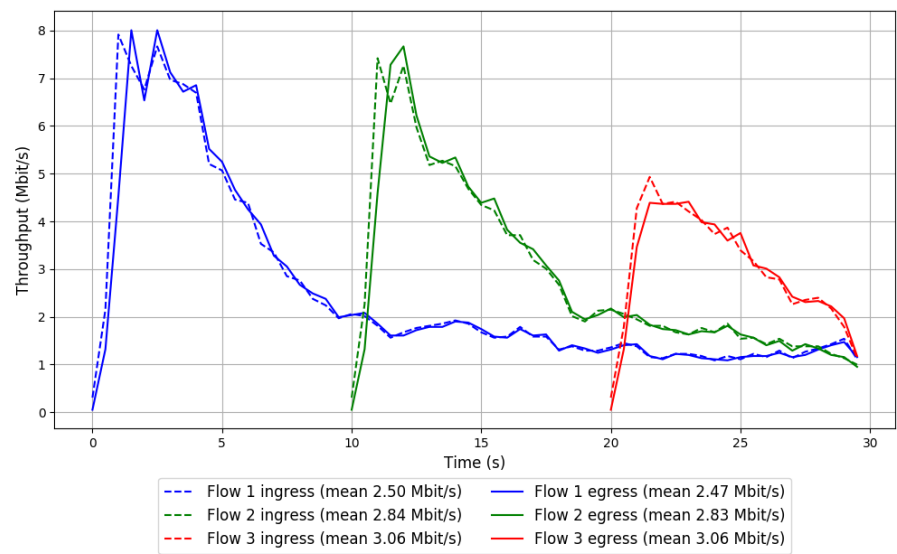


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-04 17:54:16
End at: 2018-02-04 17:54:46
Local clock offset: 4.125 ms
Remote clock offset: 30.326 ms

Below is generated by plot.py at 2018-02-05 03:06:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 225.012 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 227.154 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 212.753 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 218.497 ms
Loss rate: 2.03%

Run 1: Report of QUIC Cubic — Data Link

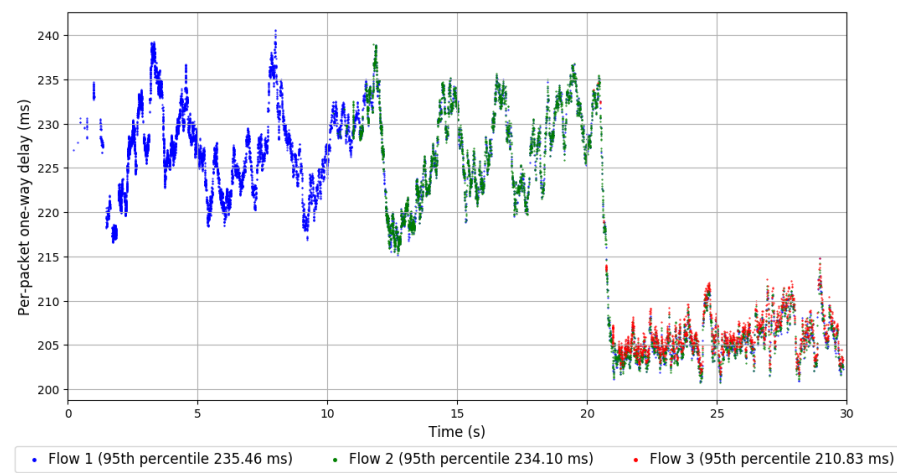
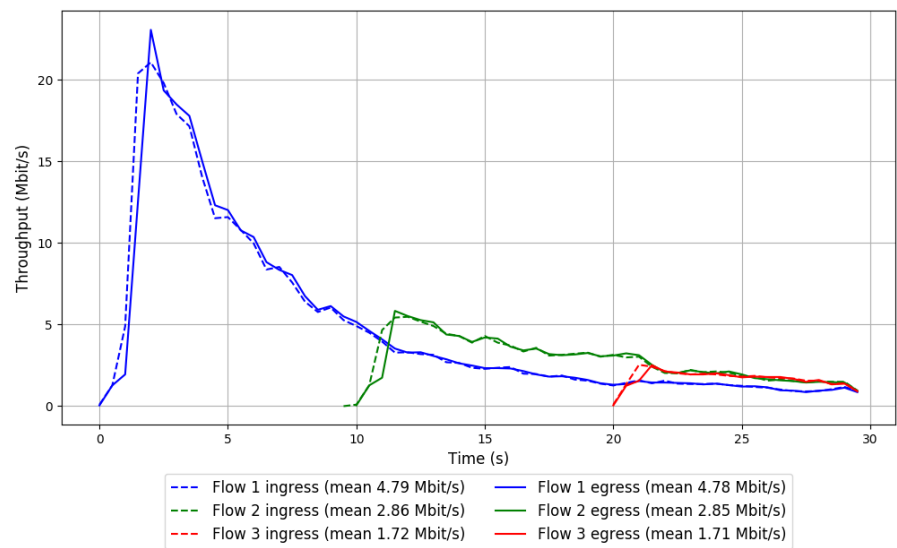


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-04 18:36:59
End at: 2018-02-04 18:37:29
Local clock offset: 5.239 ms
Remote clock offset: 24.228 ms

Below is generated by plot.py at 2018-02-05 03:06:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 234.804 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 235.459 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 234.103 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 210.830 ms
Loss rate: 3.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-04 19:17:10

End at: 2018-02-04 19:17:40

Local clock offset: 0.71 ms

Remote clock offset: 17.75 ms

Below is generated by plot.py at 2018-02-05 03:06:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 215.232 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 215.854 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 215.512 ms

Loss rate: 1.40%

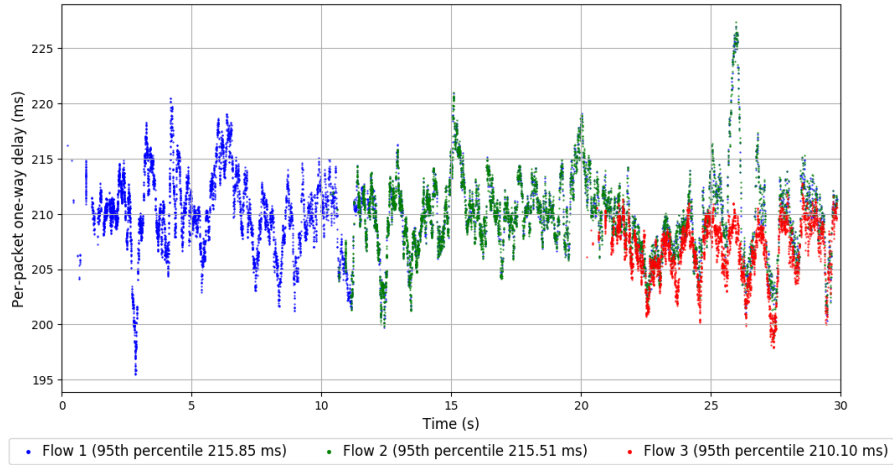
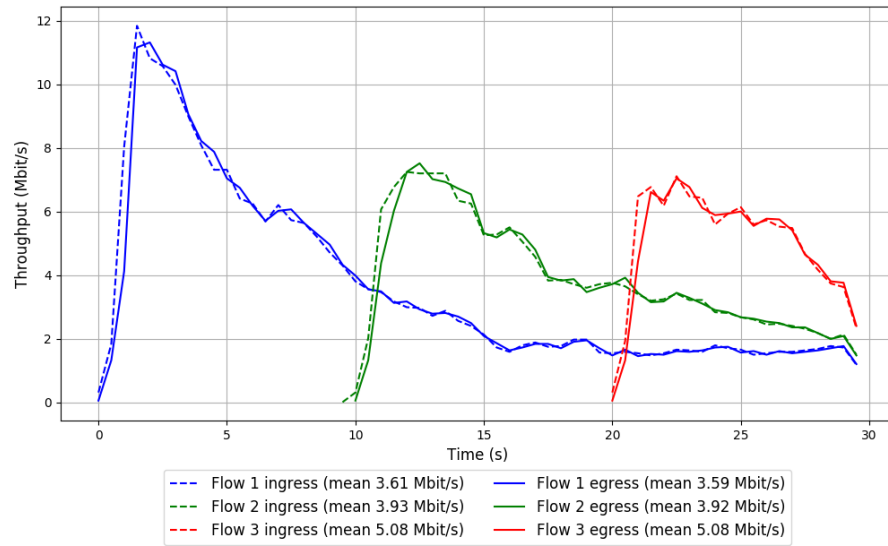
-- Flow 3:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 210.097 ms

Loss rate: 2.26%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-04 19:52:37

End at: 2018-02-04 19:53:07

Local clock offset: 4.61 ms

Remote clock offset: 3.979 ms

Below is generated by plot.py at 2018-02-05 03:06:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 248.057 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 233.022 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 23.94 Mbit/s

95th percentile per-packet one-way delay: 250.705 ms

Loss rate: 1.49%

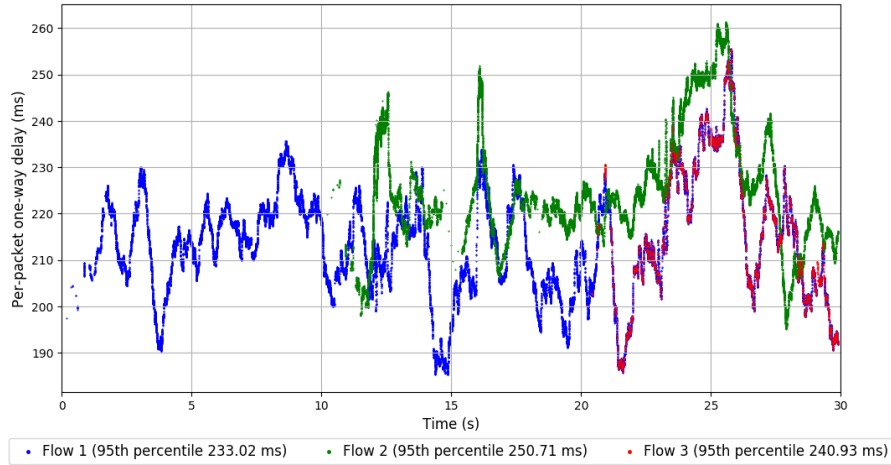
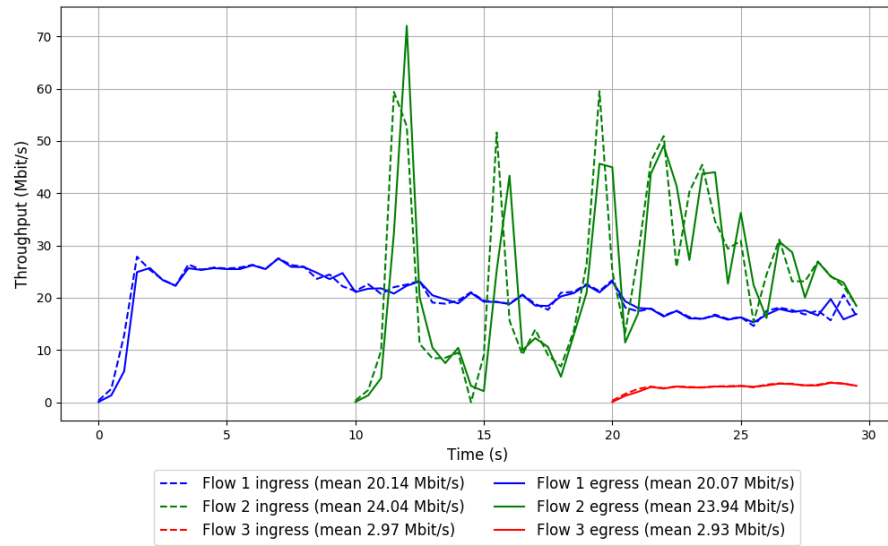
-- Flow 3:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 240.934 ms

Loss rate: 3.17%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-04 20:21:03

End at: 2018-02-04 20:21:33

Local clock offset: 0.892 ms

Remote clock offset: 4.347 ms

Below is generated by plot.py at 2018-02-05 03:06:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.08 Mbit/s

95th percentile per-packet one-way delay: 240.295 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 233.036 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 12.24 Mbit/s

95th percentile per-packet one-way delay: 224.656 ms

Loss rate: 1.06%

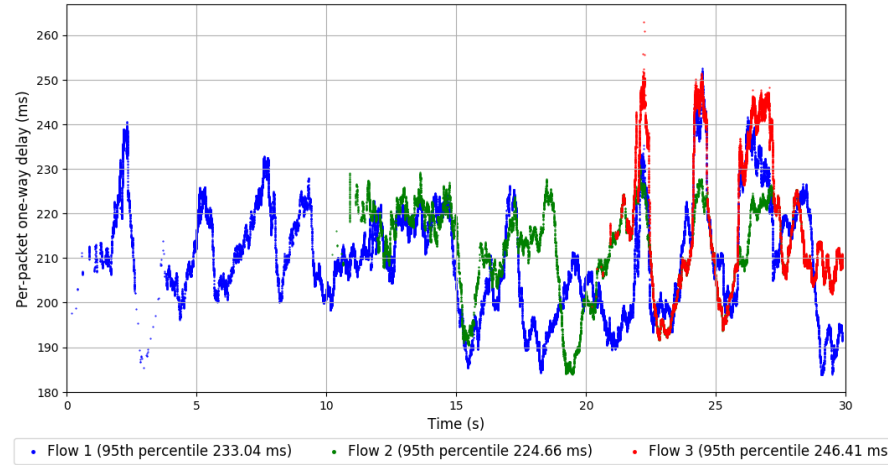
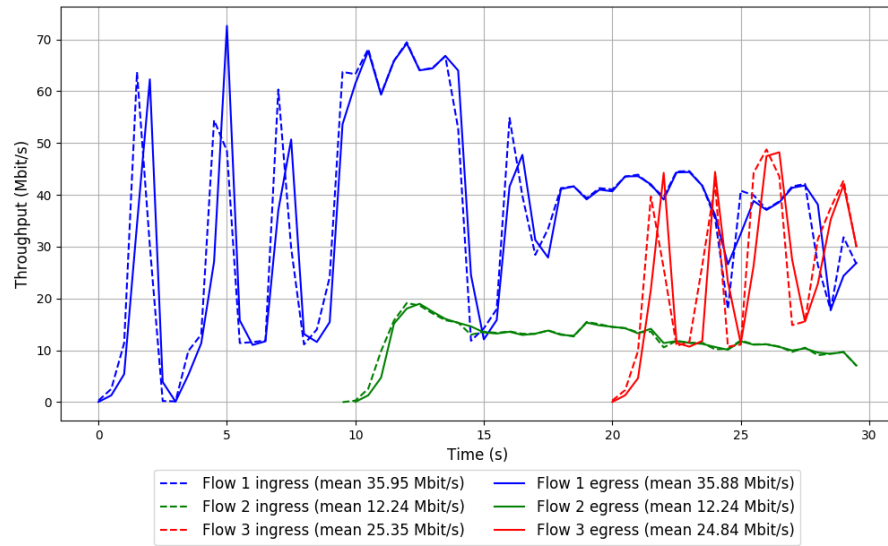
-- Flow 3:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 246.413 ms

Loss rate: 3.91%

Run 5: Report of QUIC Cubic — Data Link

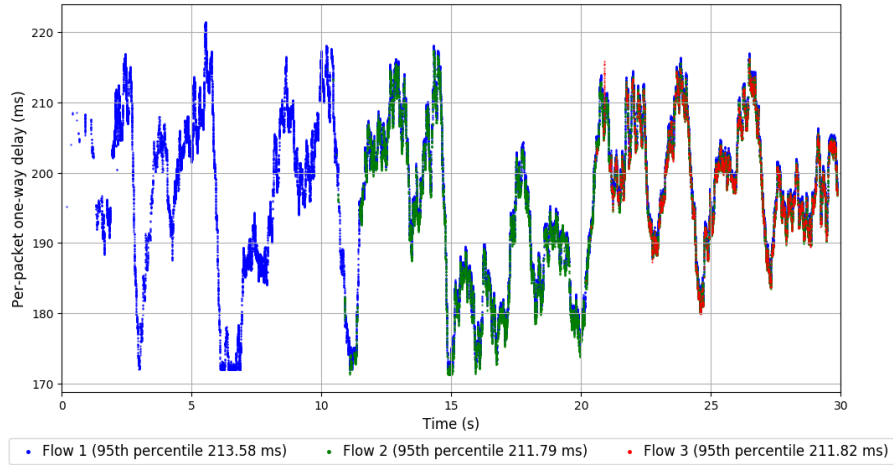
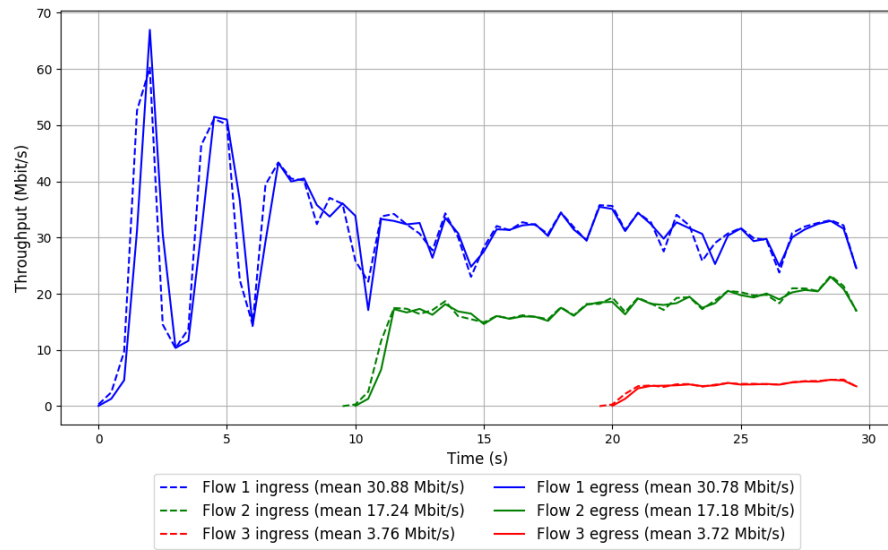


Run 6: Statistics of QUIC Cubic

Start at: 2018-02-04 20:52:00
End at: 2018-02-04 20:52:30
Local clock offset: 2.515 ms
Remote clock offset: 16.161 ms

Below is generated by plot.py at 2018-02-05 03:06:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.38 Mbit/s
95th percentile per-packet one-way delay: 213.081 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 213.578 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 17.18 Mbit/s
95th percentile per-packet one-way delay: 211.789 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 211.817 ms
Loss rate: 2.84%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-04 21:23:27

End at: 2018-02-04 21:23:57

Local clock offset: 2.676 ms

Remote clock offset: 1.53 ms

Below is generated by plot.py at 2018-02-05 03:06:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 247.961 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 243.714 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 256.560 ms

Loss rate: 2.27%

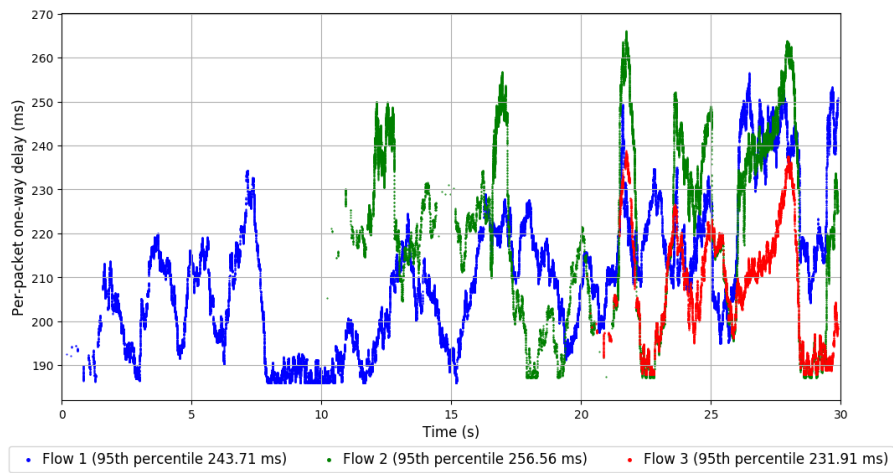
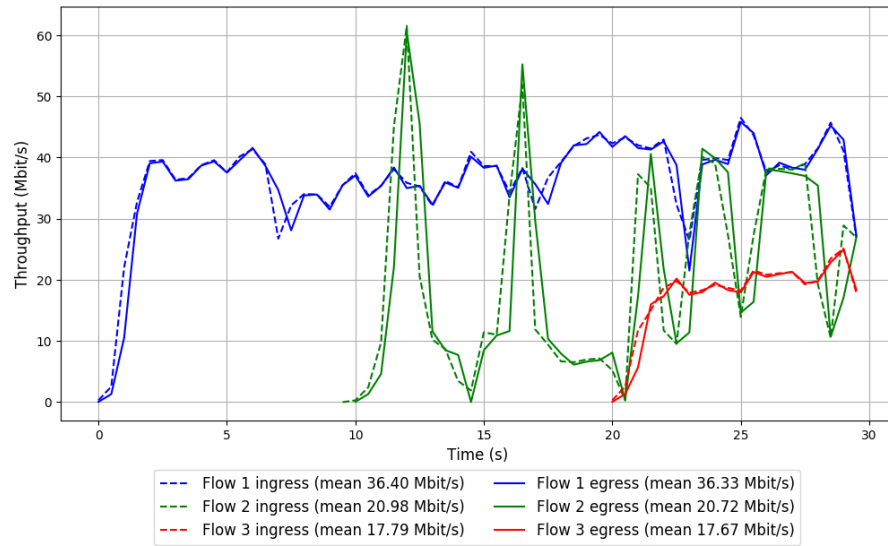
-- Flow 3:

Average throughput: 17.67 Mbit/s

95th percentile per-packet one-way delay: 231.905 ms

Loss rate: 2.69%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-04 21:54:30

End at: 2018-02-04 21:55:00

Local clock offset: 1.741 ms

Remote clock offset: 4.703 ms

Below is generated by plot.py at 2018-02-05 03:07:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.61 Mbit/s

95th percentile per-packet one-way delay: 228.126 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 225.993 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 234.713 ms

Loss rate: 1.60%

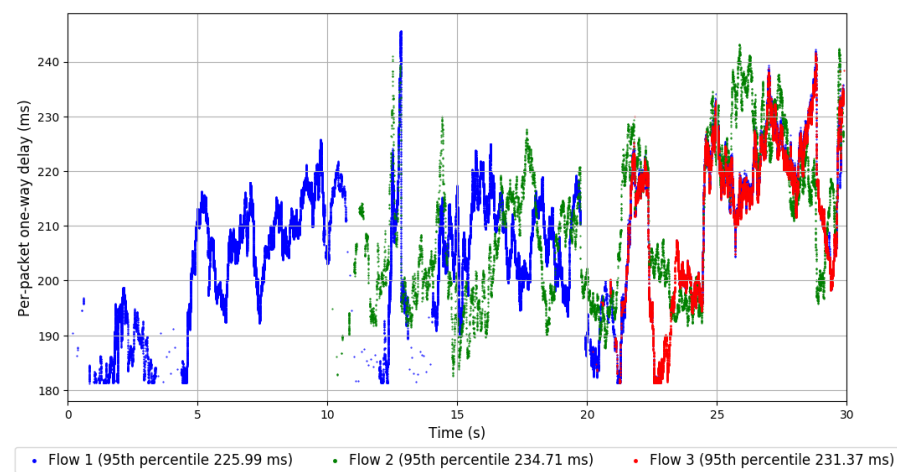
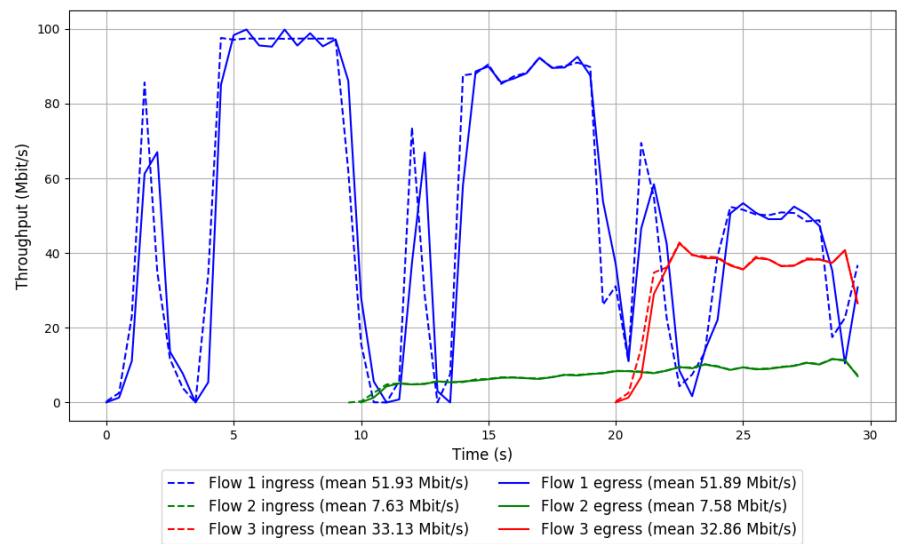
-- Flow 3:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 231.372 ms

Loss rate: 2.60%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-04 22:20:03

End at: 2018-02-04 22:20:33

Local clock offset: 5.381 ms

Remote clock offset: 3.361 ms

Below is generated by plot.py at 2018-02-05 03:07:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.29 Mbit/s

95th percentile per-packet one-way delay: 214.259 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 213.810 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 217.935 ms

Loss rate: 1.05%

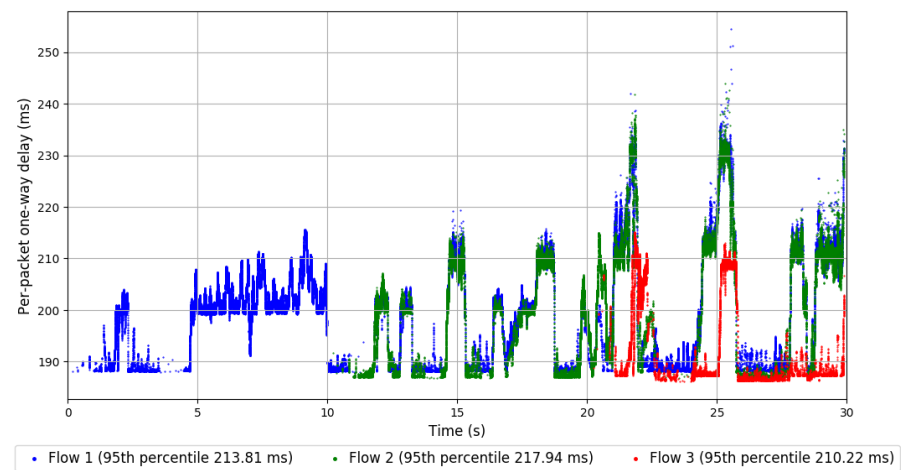
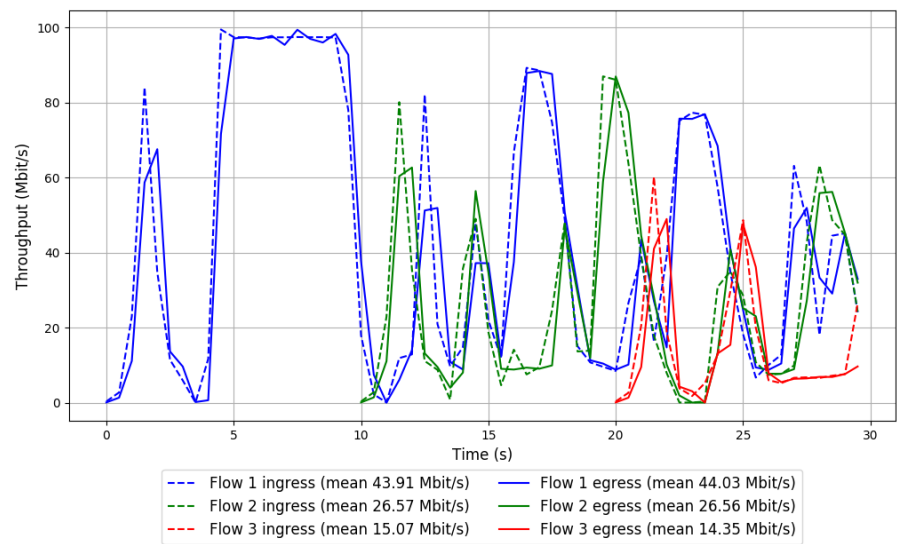
-- Flow 3:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 210.219 ms

Loss rate: 6.53%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-04 22:45:05

End at: 2018-02-04 22:45:35

Local clock offset: 4.247 ms

Remote clock offset: 7.096 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: 225.065 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 224.813 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 221.585 ms

Loss rate: 0.64%

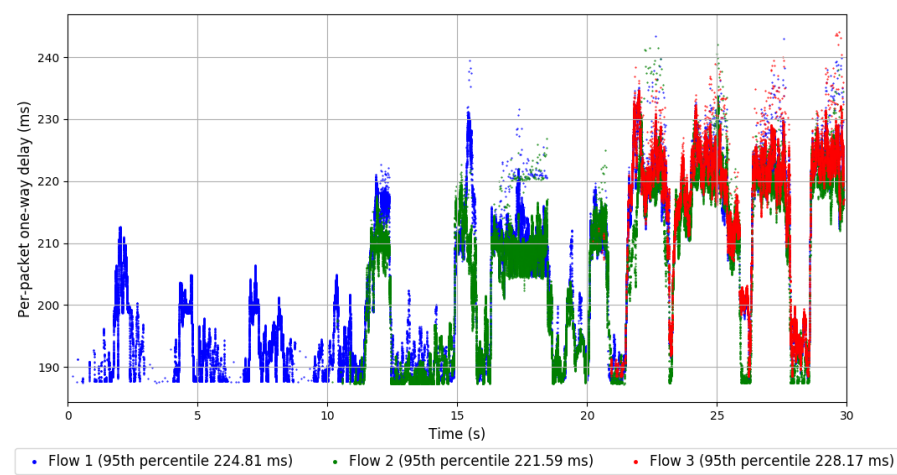
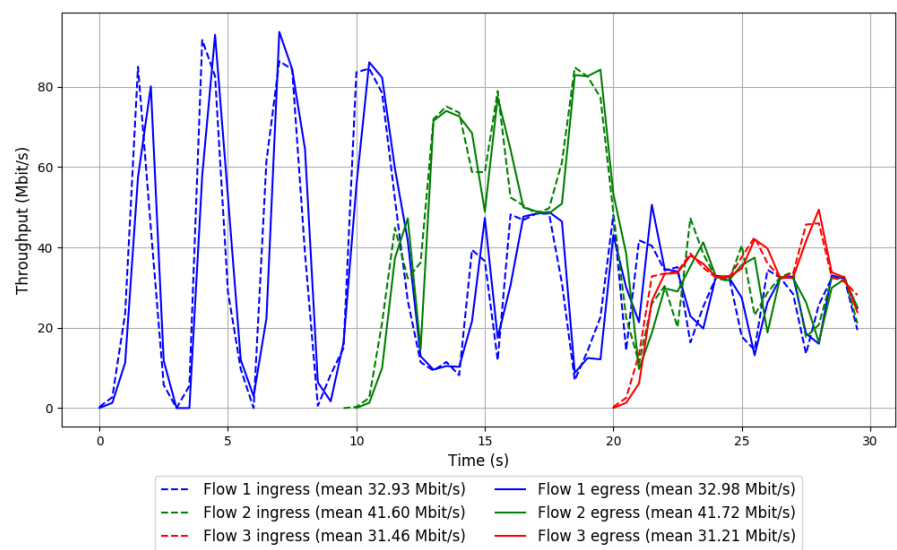
-- Flow 3:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 228.174 ms

Loss rate: 2.90%

Run 10: Report of QUIC Cubic — Data Link

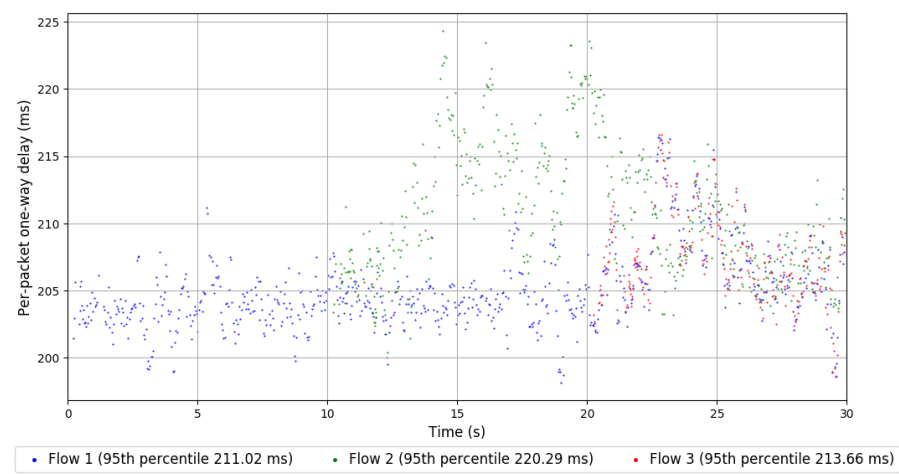
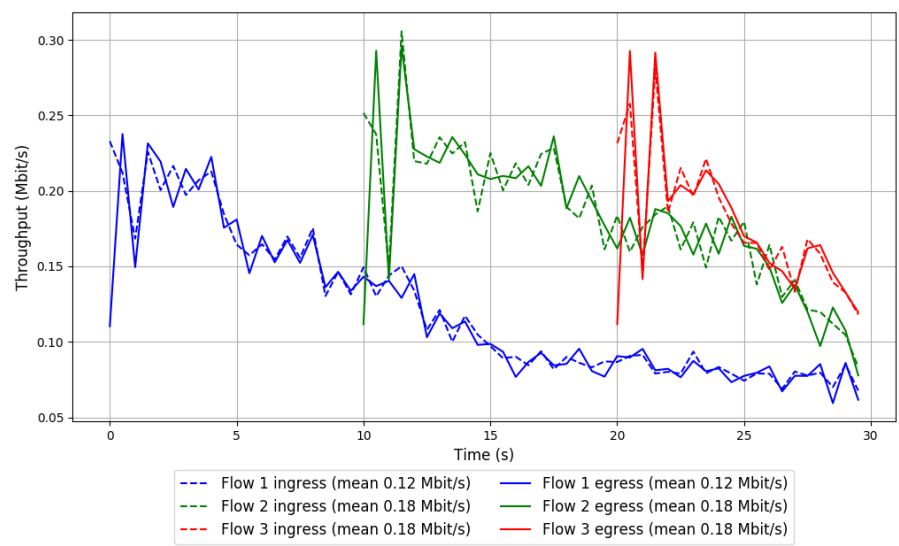


Run 1: Statistics of SCReAM

Start at: 2018-02-04 17:47:23
End at: 2018-02-04 17:47:53
Local clock offset: 1.067 ms
Remote clock offset: 30.979 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 216.544 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 211.018 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 220.290 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 213.665 ms
Loss rate: 1.89%

Run 1: Report of SReAM — Data Link

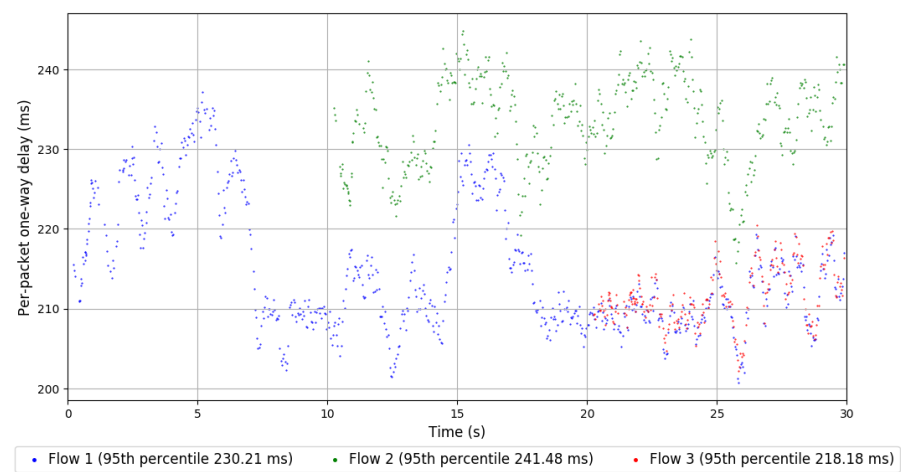
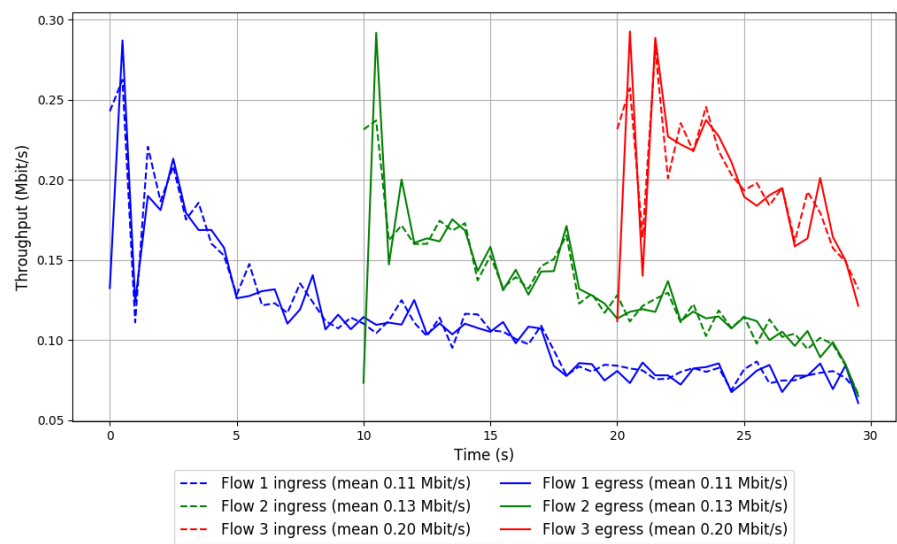


```
Run 2: Statistics of SCReAM

Start at: 2018-02-04 18:31:21
End at: 2018-02-04 18:31:51
Local clock offset: 5.124 ms
Remote clock offset: 19.657 ms

# Below is generated by plot.py at 2018-02-05 03:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 239.243 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 230.214 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 241.479 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 218.181 ms
Loss rate: 2.63%
```

Run 2: Report of SReAM — Data Link

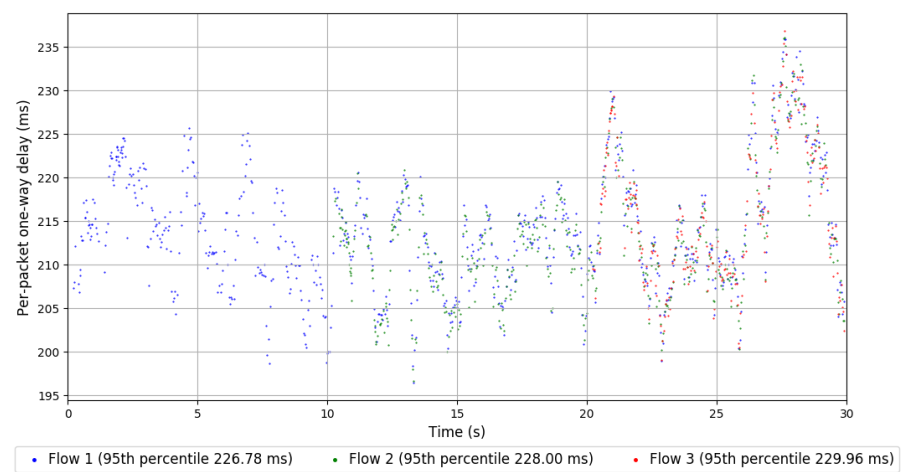
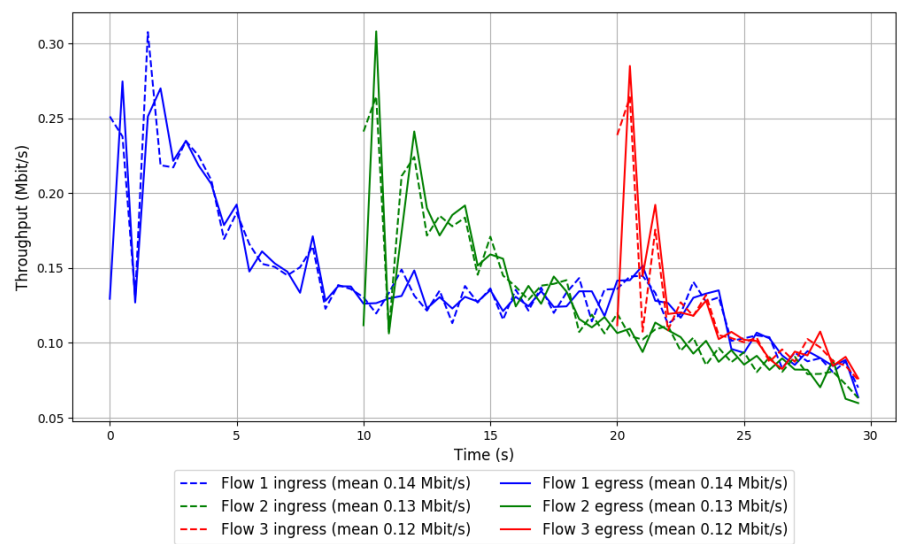


Run 3: Statistics of SCReAM

Start at: 2018-02-04 19:10:38
End at: 2018-02-04 19:11:08
Local clock offset: 1.178 ms
Remote clock offset: 19.464 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 228.191 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 226.775 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 228.002 ms
Loss rate: 2.11%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 229.958 ms
Loss rate: 2.16%

Run 3: Report of SReAM — Data Link

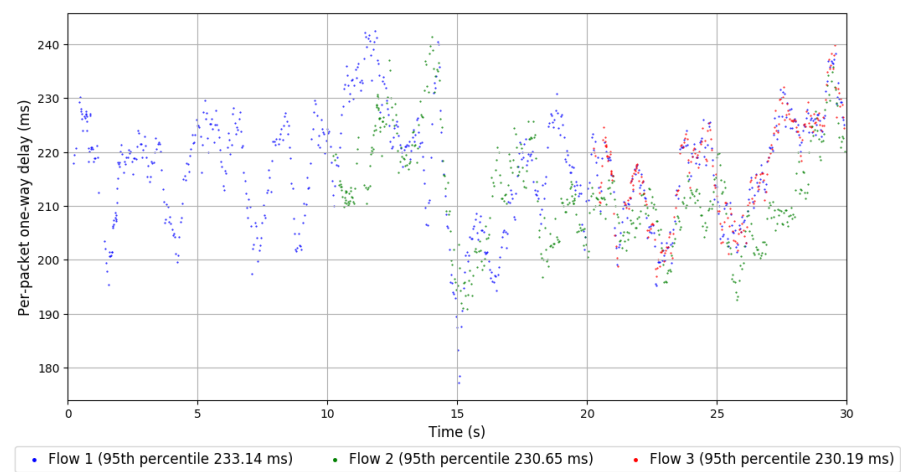
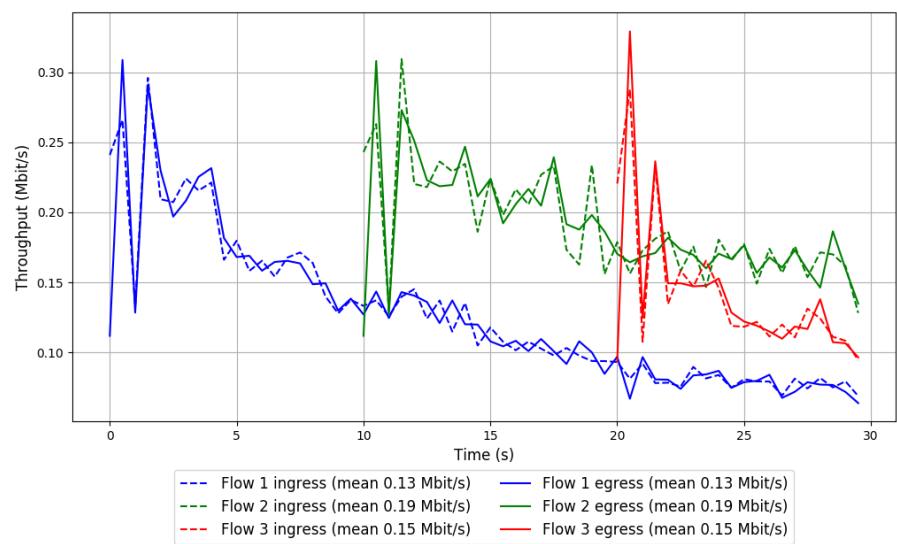


Run 4: Statistics of SCReAM

Start at: 2018-02-04 19:47:42
End at: 2018-02-04 19:48:12
Local clock offset: 2.423 ms
Remote clock offset: 16.058 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 232.092 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 233.139 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 230.646 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 230.193 ms
Loss rate: 2.22%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-02-04 20:16:12

End at: 2018-02-04 20:16:42

Local clock offset: 2.702 ms

Remote clock offset: 7.902 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 243.439 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 245.864 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 241.874 ms

Loss rate: 1.02%

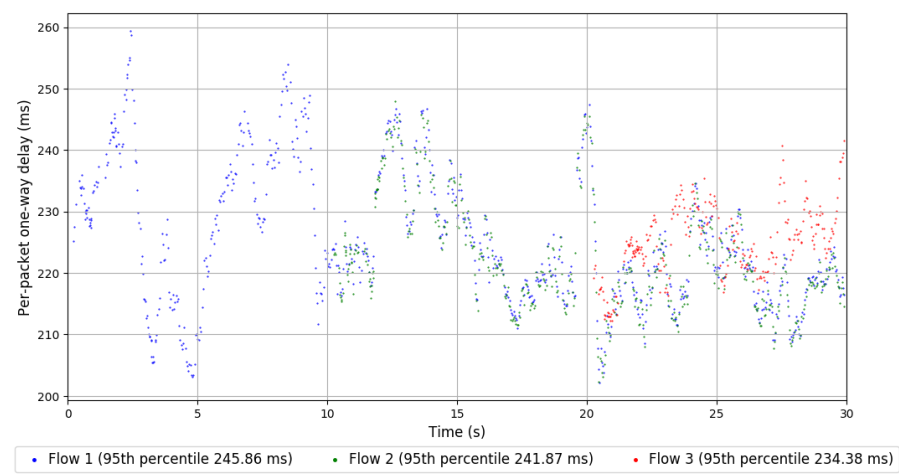
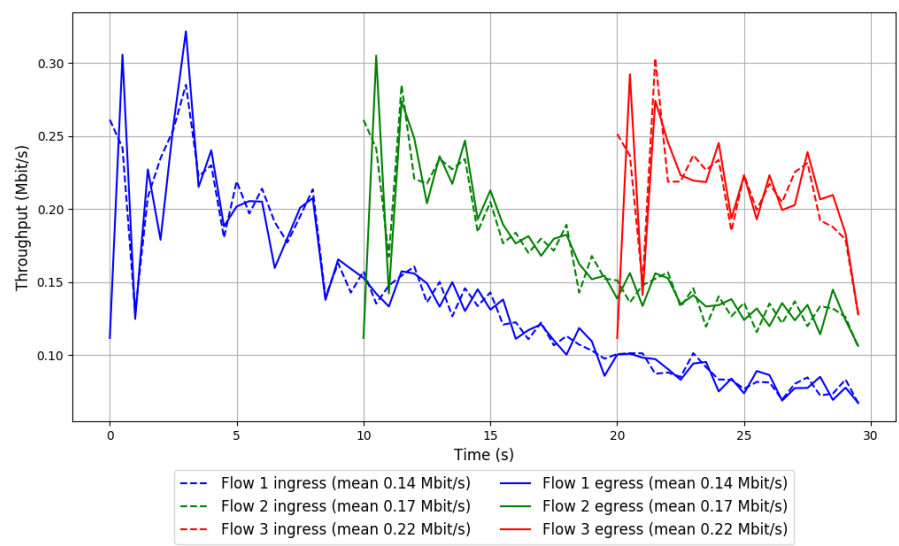
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 234.383 ms

Loss rate: 1.79%

Run 5: Report of SReAM — Data Link

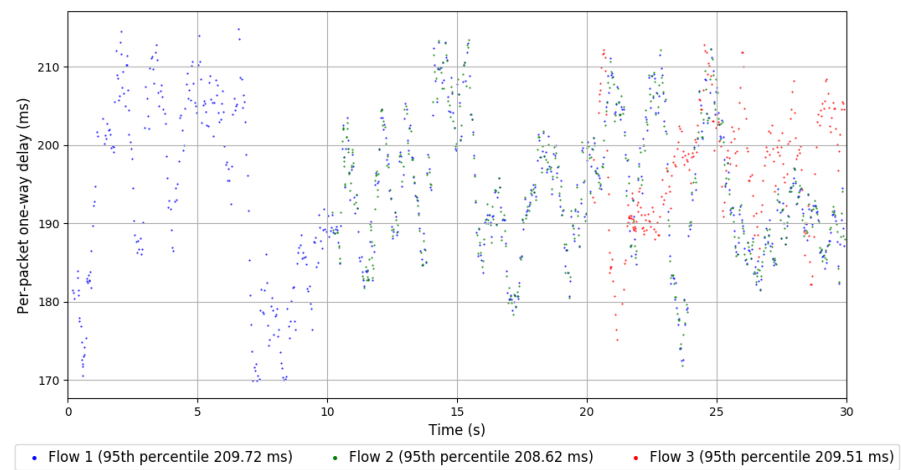
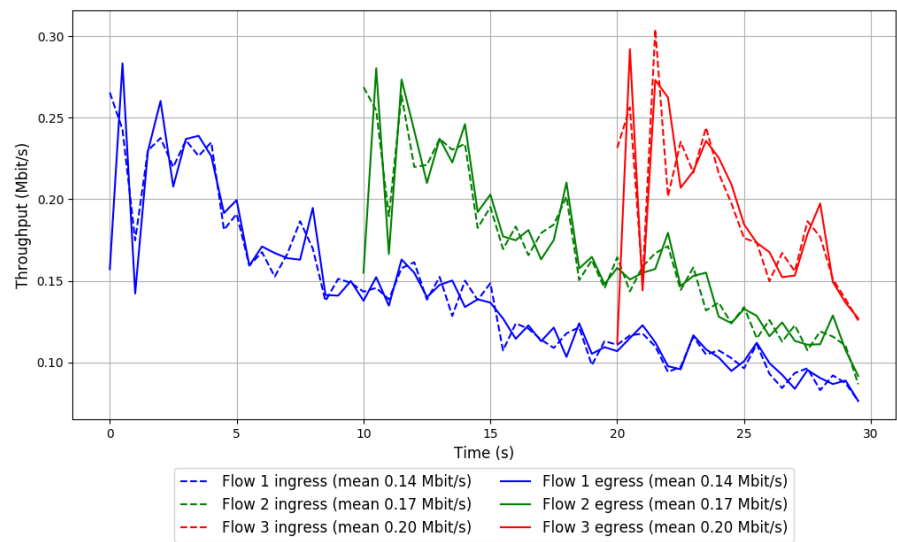


Run 6: Statistics of SCReAM

Start at: 2018-02-04 20:47:19
End at: 2018-02-04 20:47:49
Local clock offset: 1.505 ms
Remote clock offset: 16.189 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 209.309 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 209.724 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 208.615 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 209.507 ms
Loss rate: 1.46%

Run 6: Report of SReAM — Data Link

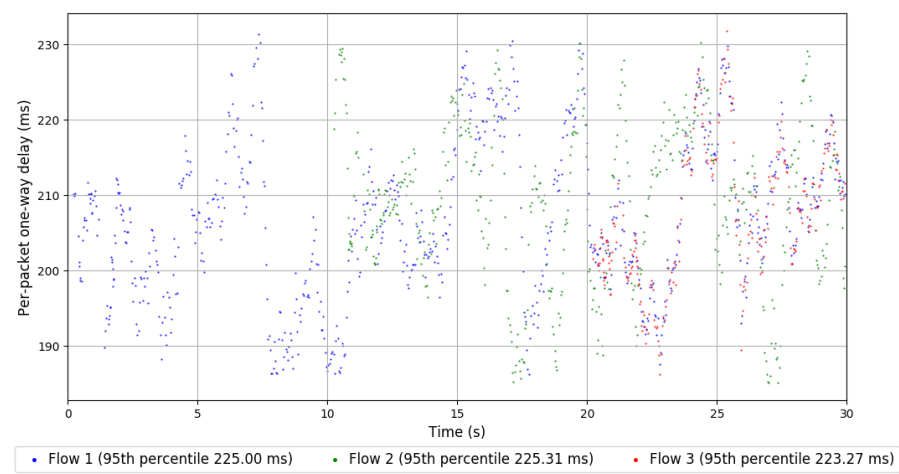
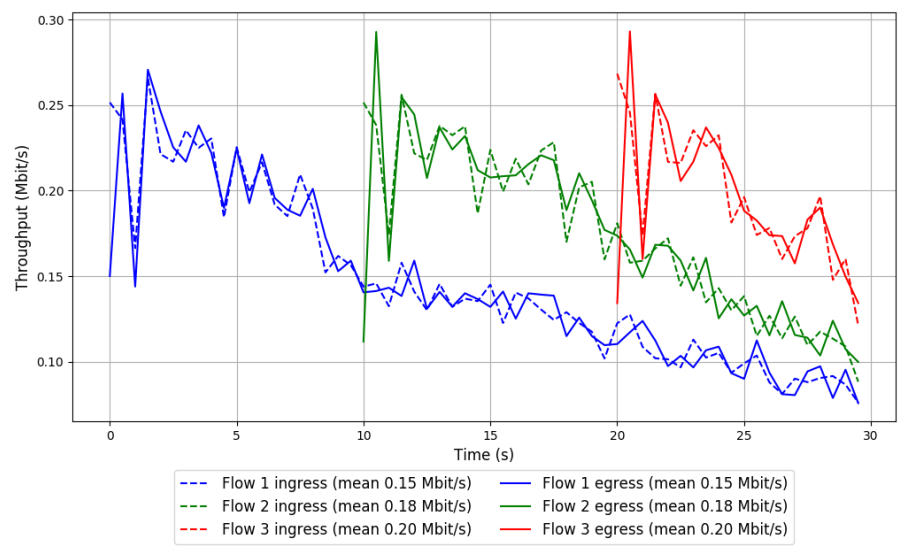


Run 7: Statistics of SCReAM

Start at: 2018-02-04 21:18:43
End at: 2018-02-04 21:19:13
Local clock offset: 3.533 ms
Remote clock offset: 3.862 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 225.063 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 225.005 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 225.314 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 223.273 ms
Loss rate: 1.51%

Run 7: Report of SReAM — Data Link

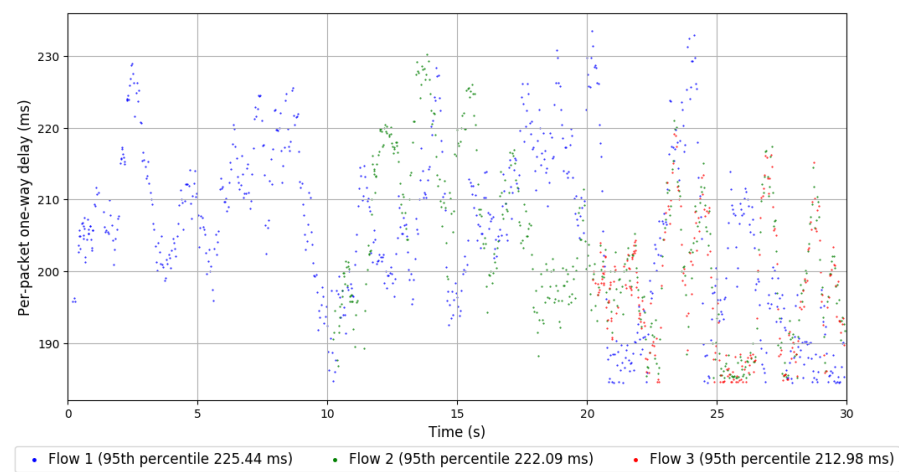
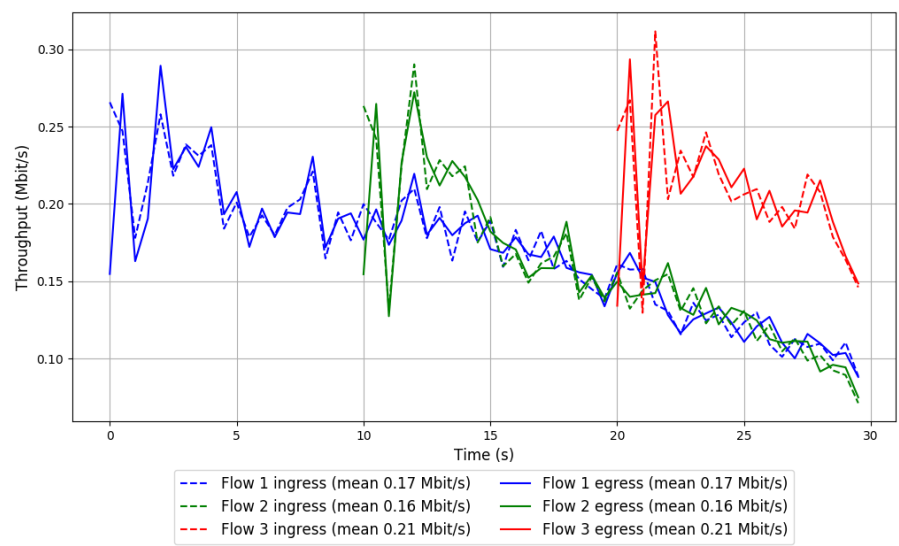


Run 8: Statistics of SCReAM

Start at: 2018-02-04 21:49:51
End at: 2018-02-04 21:50:21
Local clock offset: 0.781 ms
Remote clock offset: 1.723 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 224.003 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 225.435 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 222.086 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 212.976 ms
Loss rate: 1.55%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-02-04 22:15:48

End at: 2018-02-04 22:16:18

Local clock offset: 4.05 ms

Remote clock offset: 4.088 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 199.152 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 198.865 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 199.756 ms

Loss rate: 0.85%

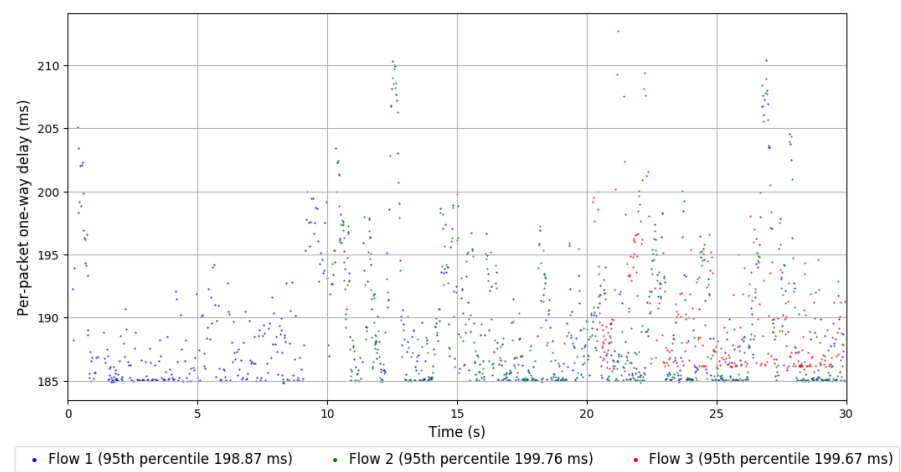
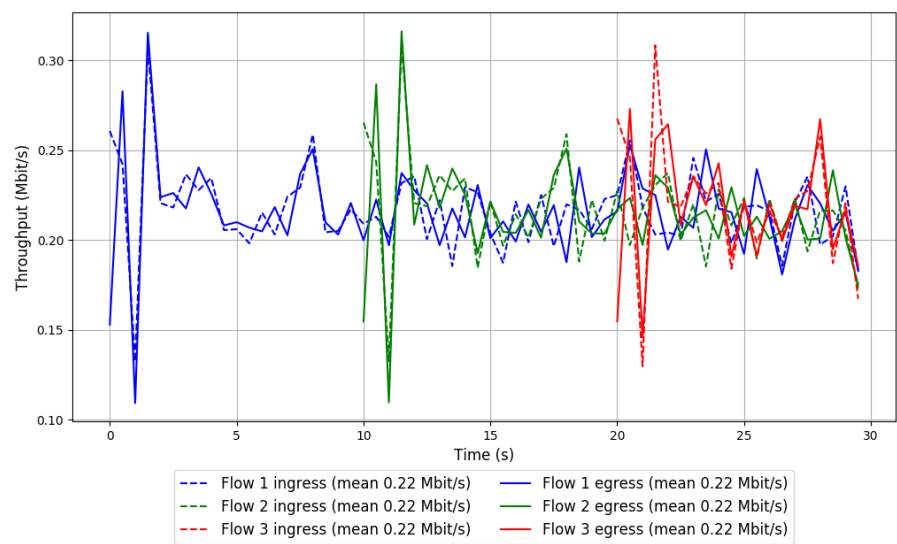
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 199.672 ms

Loss rate: 1.49%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-02-04 22:41:00

End at: 2018-02-04 22:41:30

Local clock offset: 3.561 ms

Remote clock offset: 8.923 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 212.323 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 213.753 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 213.878 ms

Loss rate: 0.69%

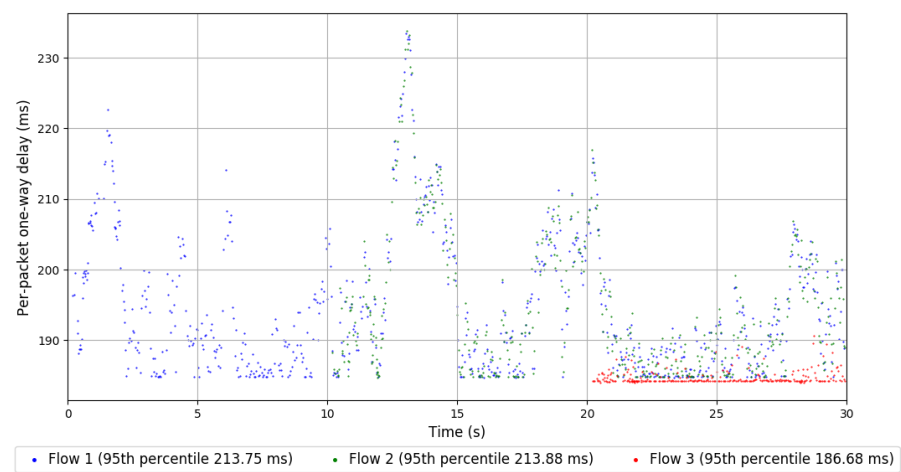
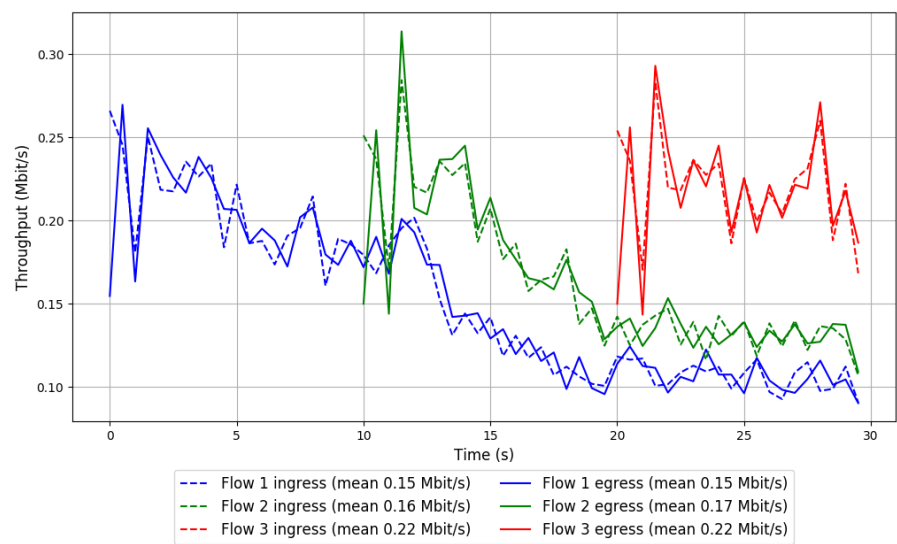
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 186.678 ms

Loss rate: 1.50%

Run 10: Report of SReAM — Data Link

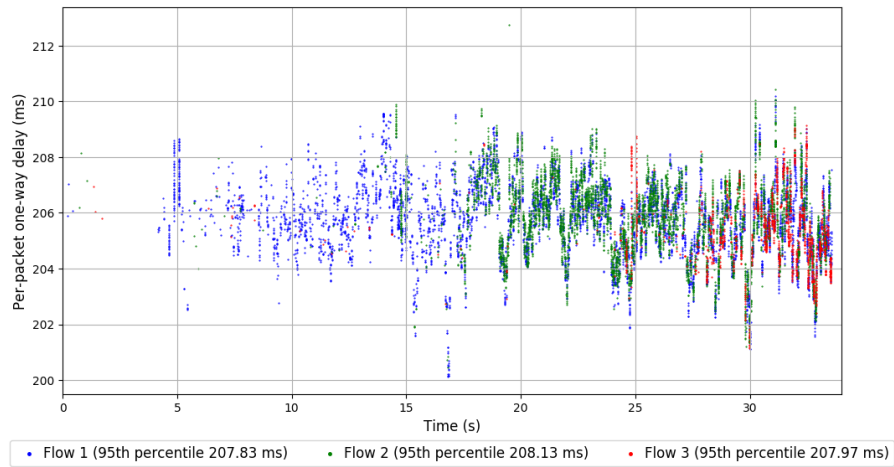
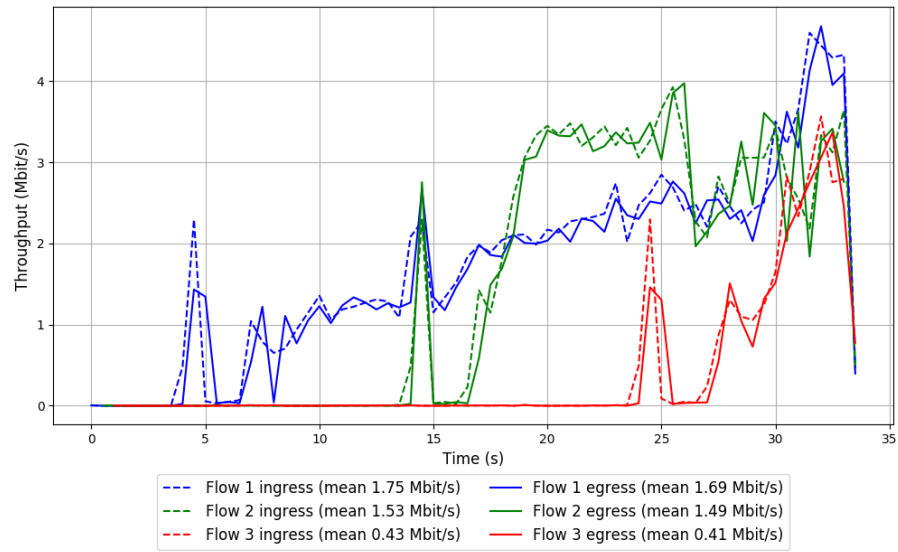


Run 1: Statistics of WebRTC media

Start at: 2018-02-04 17:25:45
End at: 2018-02-04 17:26:15
Local clock offset: 4.877 ms
Remote clock offset: 47.117 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 207.946 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 207.829 ms
Loss rate: 3.68%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 208.131 ms
Loss rate: 3.30%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 207.972 ms
Loss rate: 3.83%

Run 1: Report of WebRTC media — Data Link

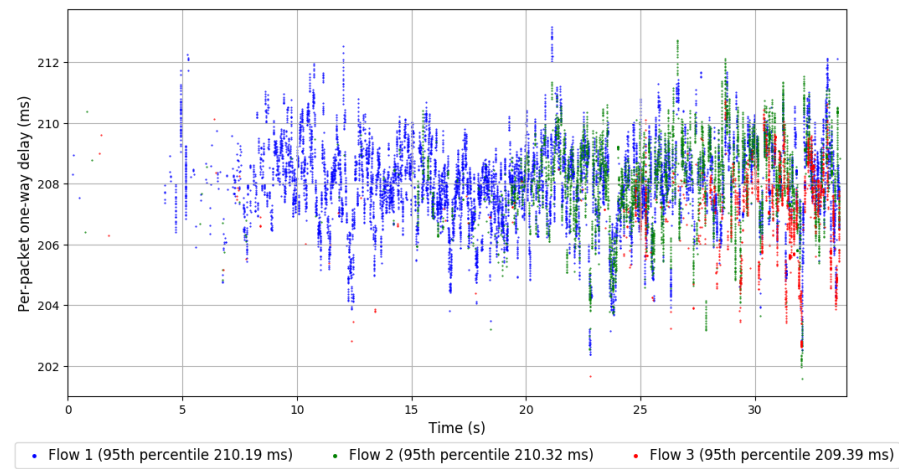
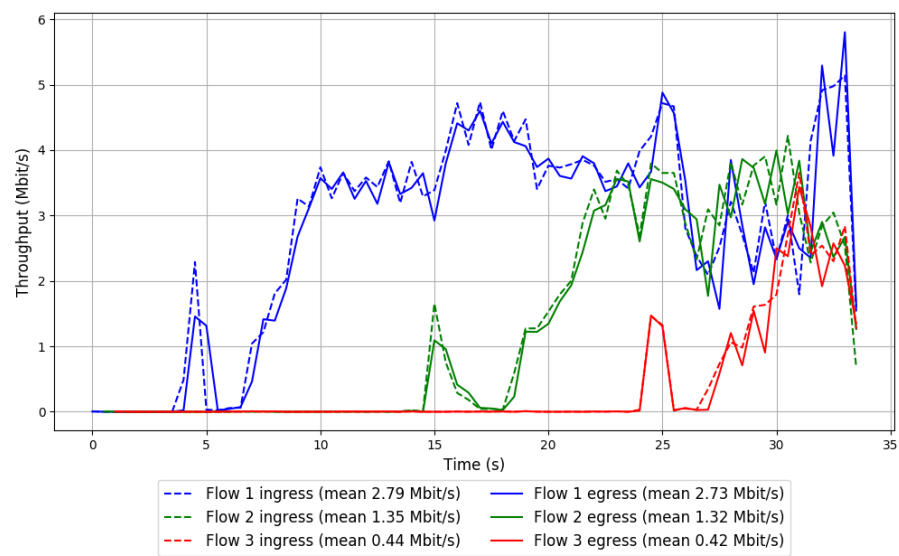


Run 2: Statistics of WebRTC media

Start at: 2018-02-04 18:09:26
End at: 2018-02-04 18:09:56
Local clock offset: 1.306 ms
Remote clock offset: 21.597 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 210.170 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 2.73 Mbit/s
95th percentile per-packet one-way delay: 210.186 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 210.319 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 209.388 ms
Loss rate: 5.88%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-04 18:51:06

End at: 2018-02-04 18:51:36

Local clock offset: 4.106 ms

Remote clock offset: 21.49 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 236.385 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 236.456 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 237.036 ms

Loss rate: 2.19%

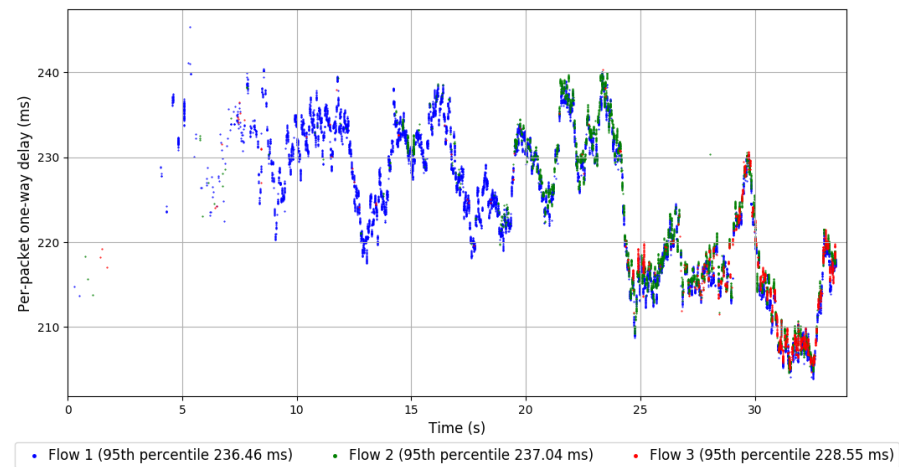
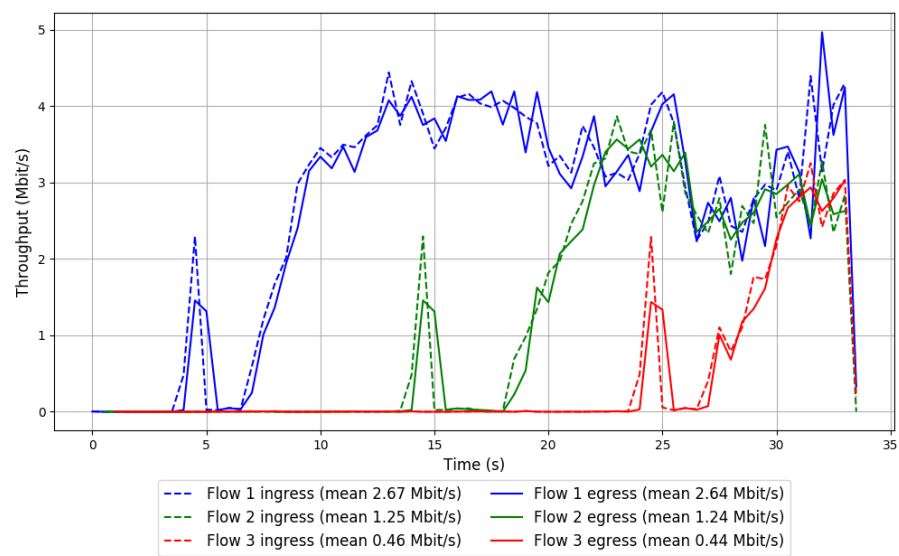
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 228.550 ms

Loss rate: 5.27%

Run 3: Report of WebRTC media — Data Link

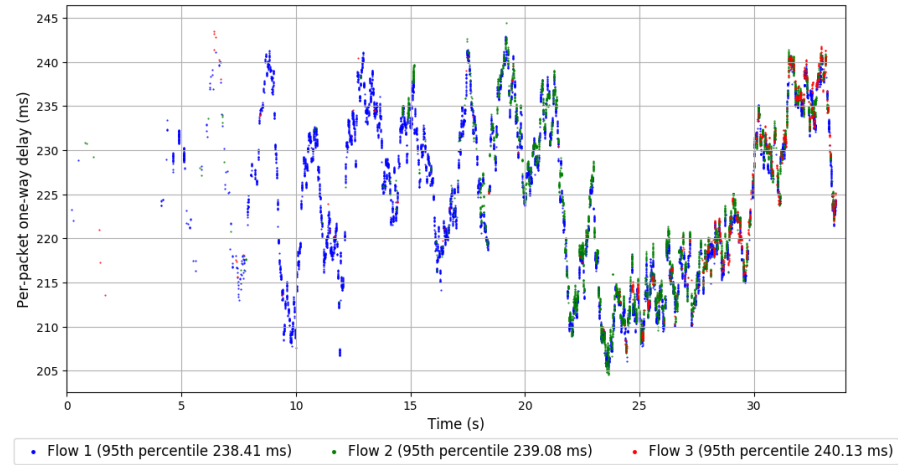
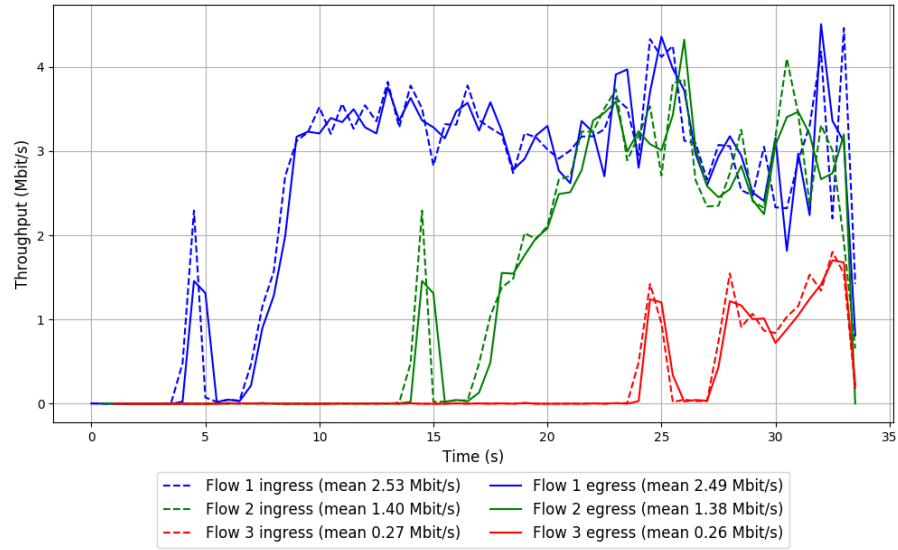


Run 4: Statistics of WebRTC media

Start at: 2018-02-04 19:30:35
End at: 2018-02-04 19:31:05
Local clock offset: 2.142 ms
Remote clock offset: 20.694 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 238.834 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 238.407 ms
Loss rate: 2.17%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 239.077 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 240.130 ms
Loss rate: 5.03%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-04 20:00:47

End at: 2018-02-04 20:01:17

Local clock offset: 1.989 ms

Remote clock offset: 10.79 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 238.569 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 238.482 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 240.056 ms

Loss rate: 1.65%

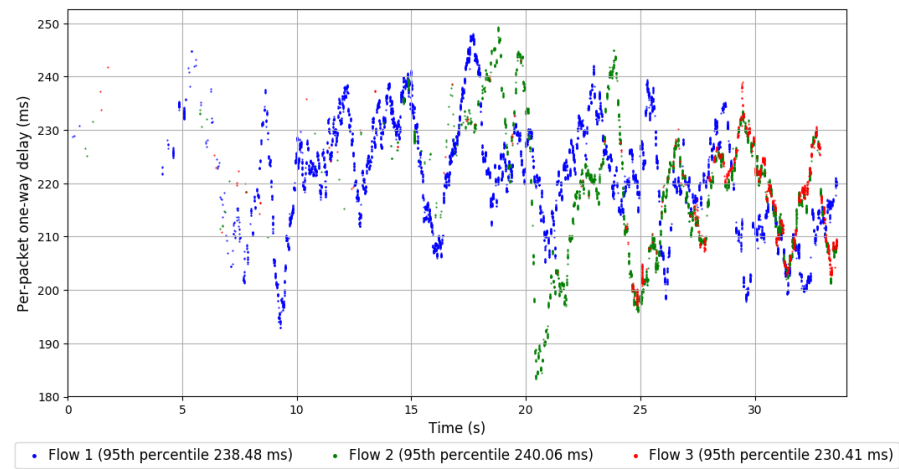
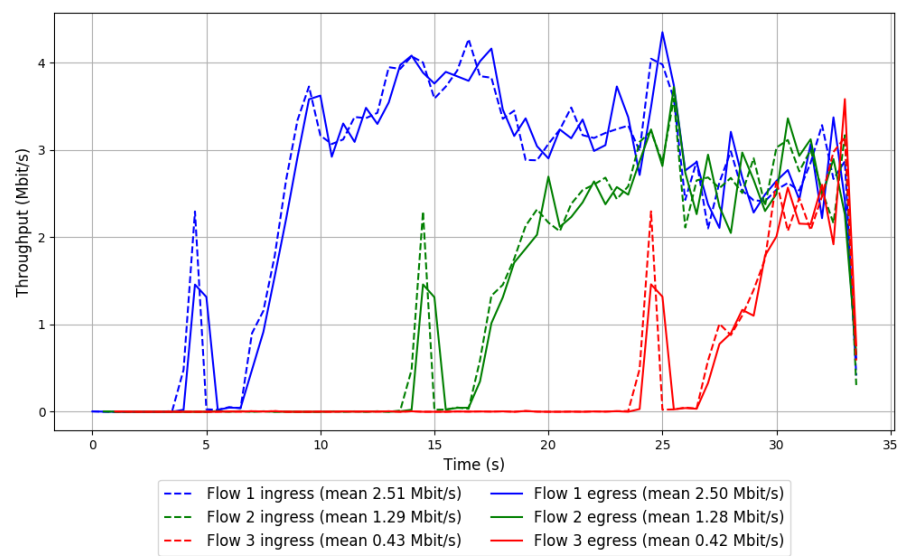
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 230.407 ms

Loss rate: 4.84%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-04 20:30:35

End at: 2018-02-04 20:31:05

Local clock offset: 1.87 ms

Remote clock offset: 1.94 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 229.814 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 229.528 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 228.642 ms

Loss rate: 1.81%

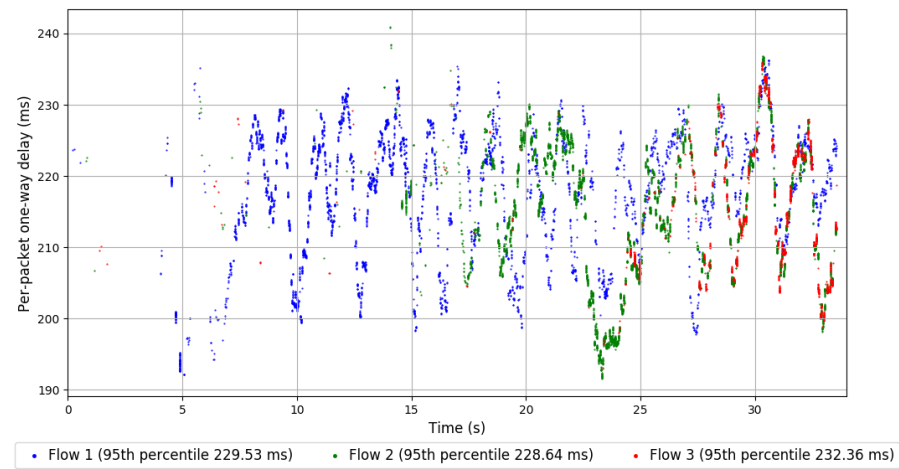
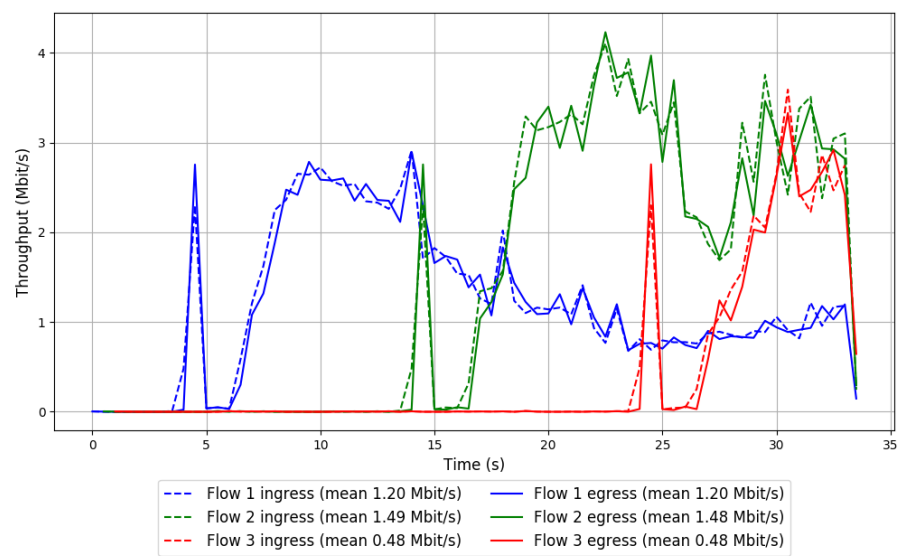
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 232.359 ms

Loss rate: 1.79%

Run 6: Report of WebRTC media — Data Link

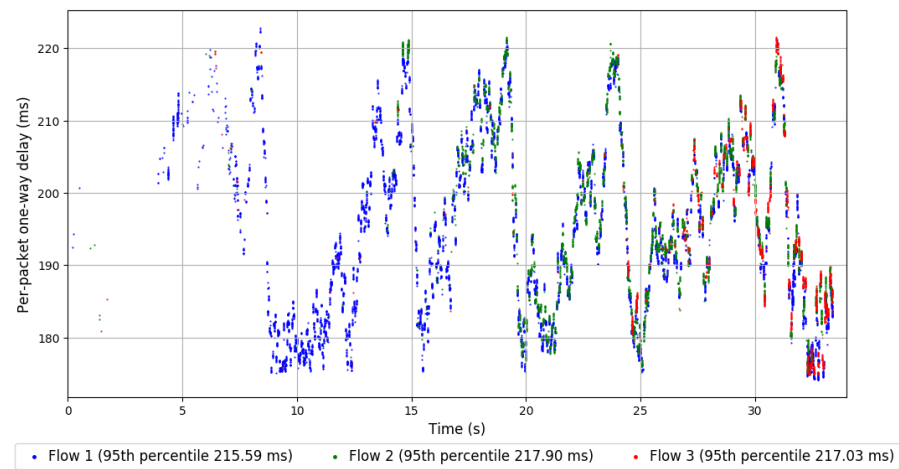
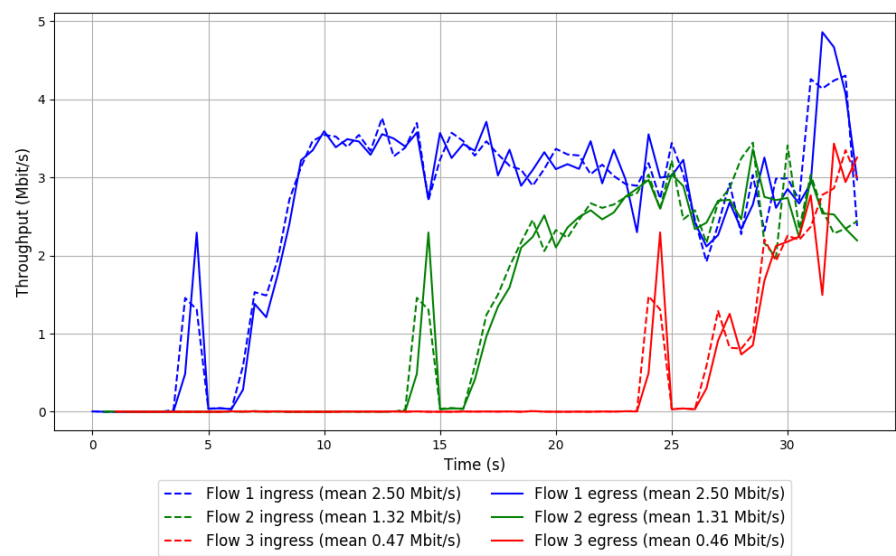


Run 7: Statistics of WebRTC media

Start at: 2018-02-04 21:02:14
End at: 2018-02-04 21:02:44
Local clock offset: 5.488 ms
Remote clock offset: 15.198 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 216.557 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 215.587 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 217.903 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 217.029 ms
Loss rate: 4.22%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-04 21:33:02

End at: 2018-02-04 21:33:32

Local clock offset: 2.598 ms

Remote clock offset: 3.243 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 231.102 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 231.221 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 231.039 ms

Loss rate: 1.55%

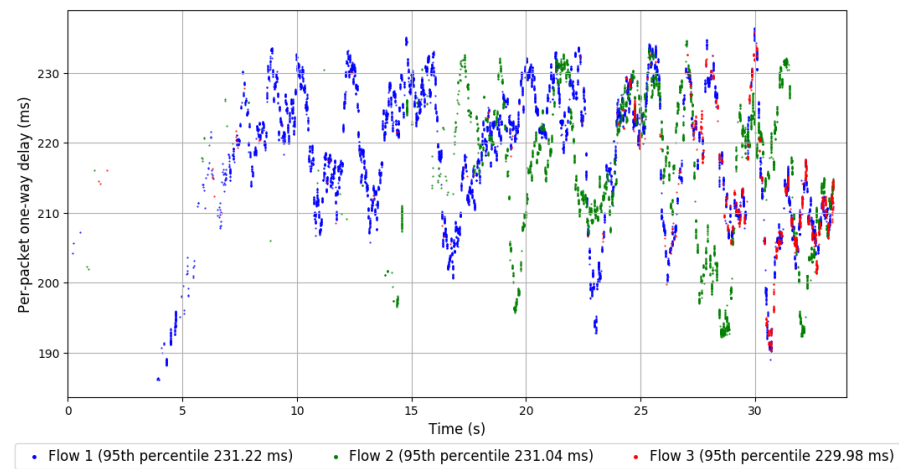
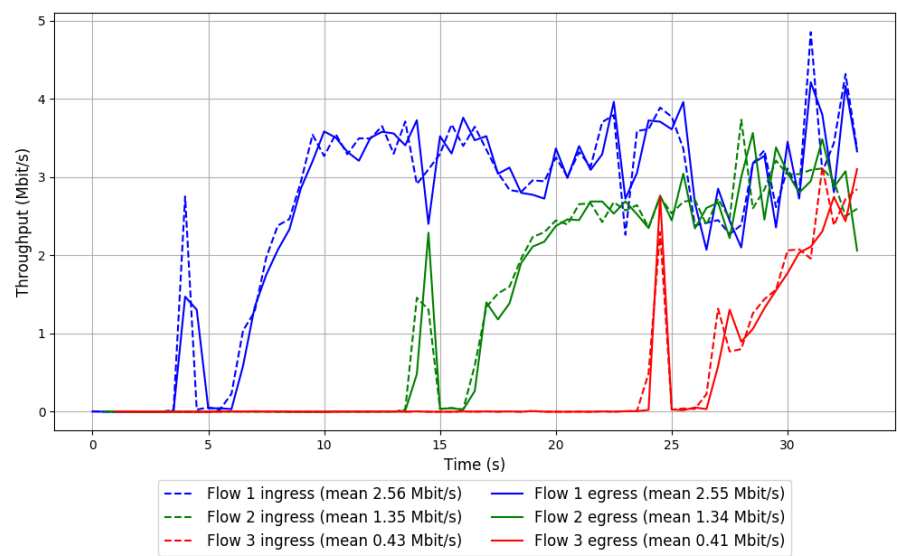
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 229.984 ms

Loss rate: 4.71%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-04 22:01:56

End at: 2018-02-04 22:02:26

Local clock offset: 1.115 ms

Remote clock offset: 2.763 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 216.917 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 219.121 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 188.036 ms

Loss rate: 0.70%

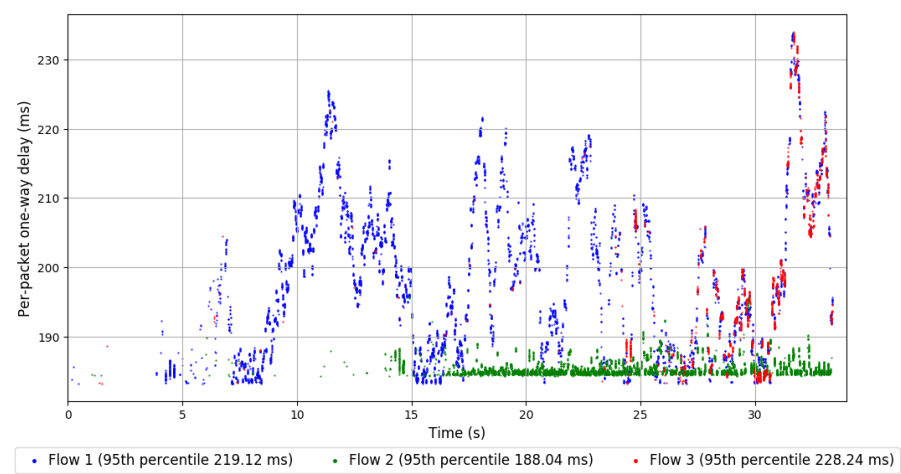
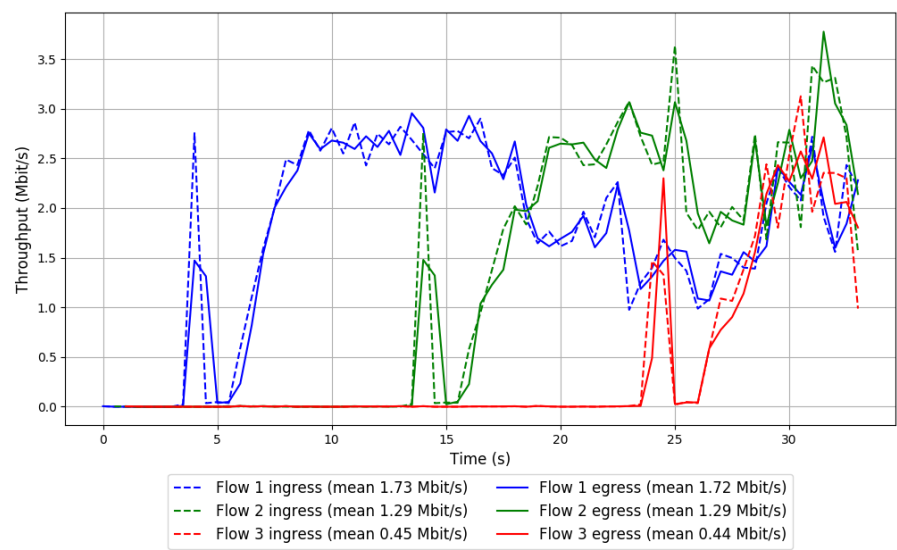
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 228.238 ms

Loss rate: 1.49%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-04 22:27:23

End at: 2018-02-04 22:27:53

Local clock offset: 3.435 ms

Remote clock offset: 3.075 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 187.577 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 188.490 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 187.215 ms

Loss rate: 0.46%

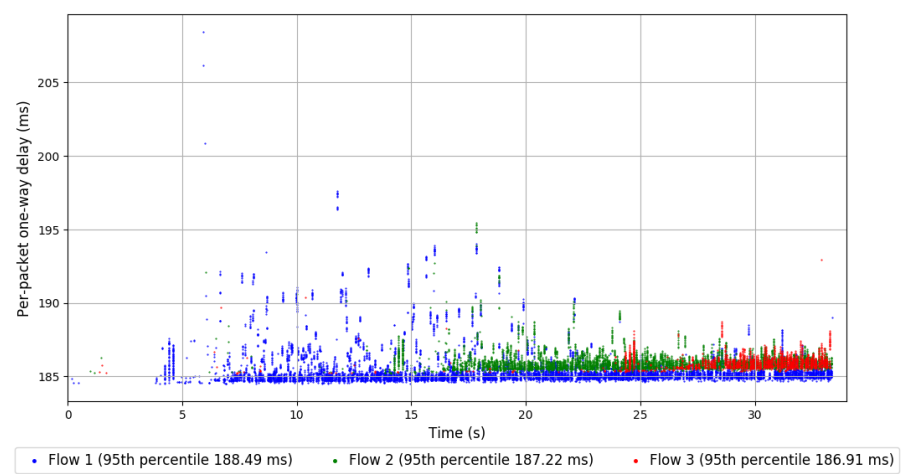
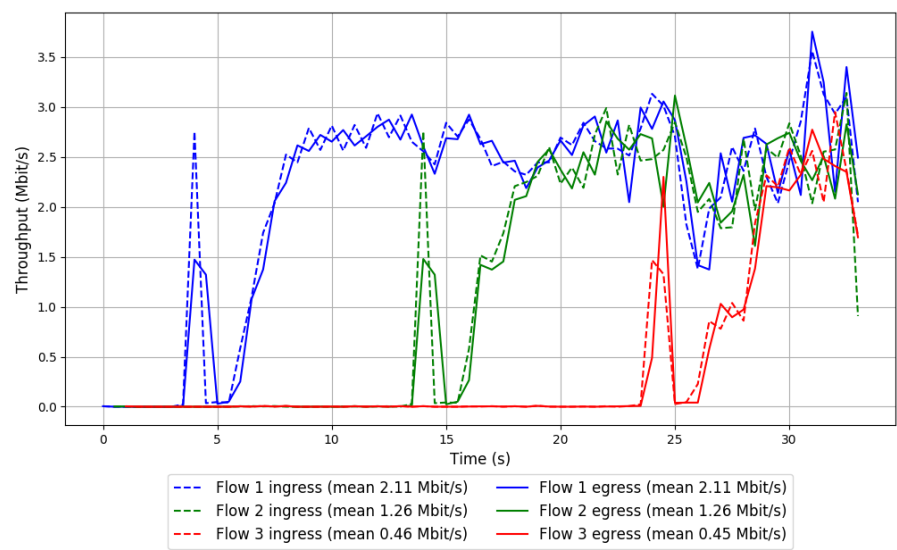
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 186.906 ms

Loss rate: 4.03%

Run 10: Report of WebRTC media — Data Link

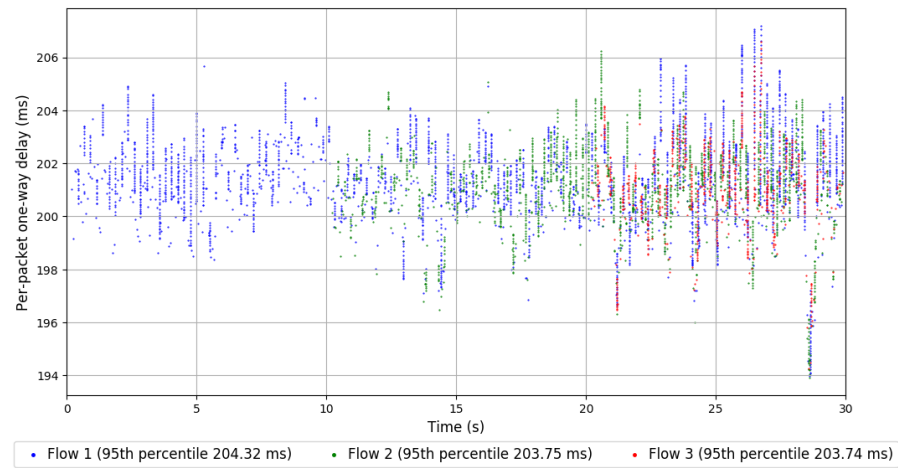
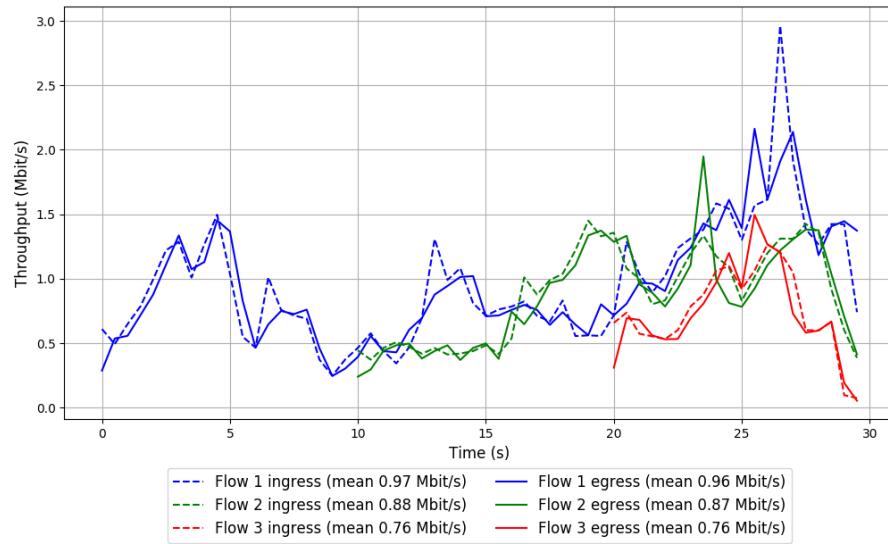


Run 1: Statistics of Sprout

Start at: 2018-02-04 17:27:08
End at: 2018-02-04 17:27:38
Local clock offset: 2.361 ms
Remote clock offset: 46.925 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 204.064 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 204.325 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 203.754 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 203.743 ms
Loss rate: 2.11%

Run 1: Report of Sprout — Data Link

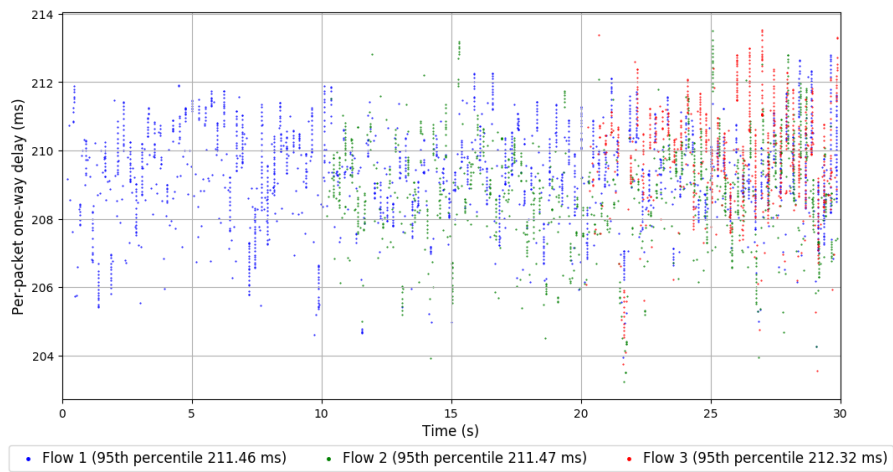
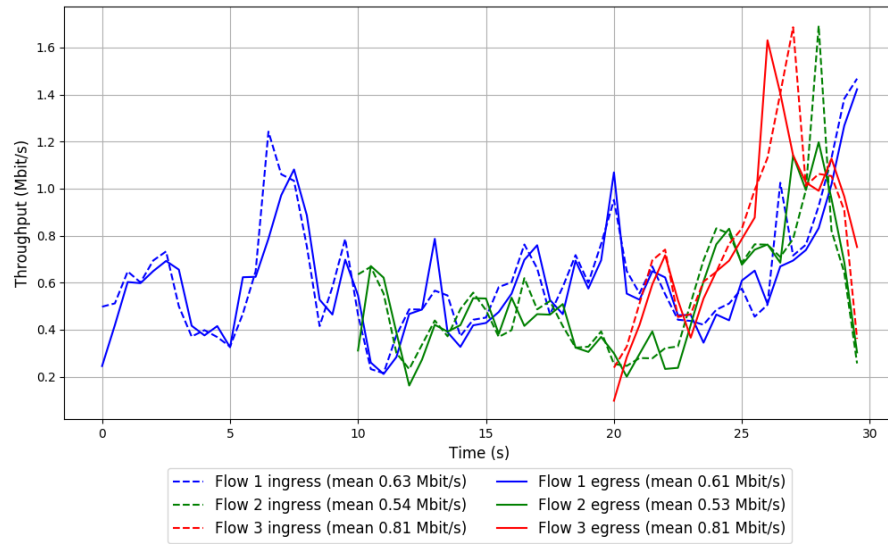


Run 2: Statistics of Sprout

Start at: 2018-02-04 18:10:56
End at: 2018-02-04 18:11:26
Local clock offset: 1.915 ms
Remote clock offset: 20.768 ms

```
# Below is generated by plot.py at 2018-02-05 03:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 211.685 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 211.462 ms
Loss rate: 4.04%
-- Flow 2:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 211.465 ms
Loss rate: 3.09%
-- Flow 3:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 212.324 ms
Loss rate: 1.97%
```

Run 2: Report of Sprout — Data Link

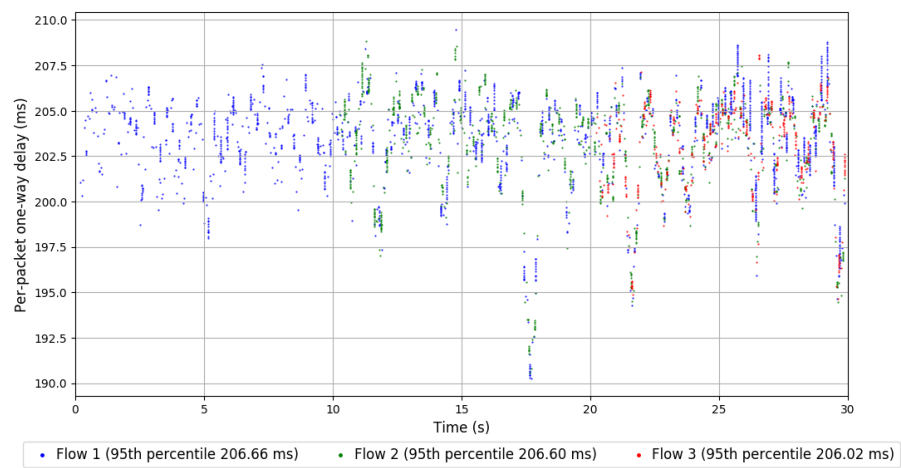
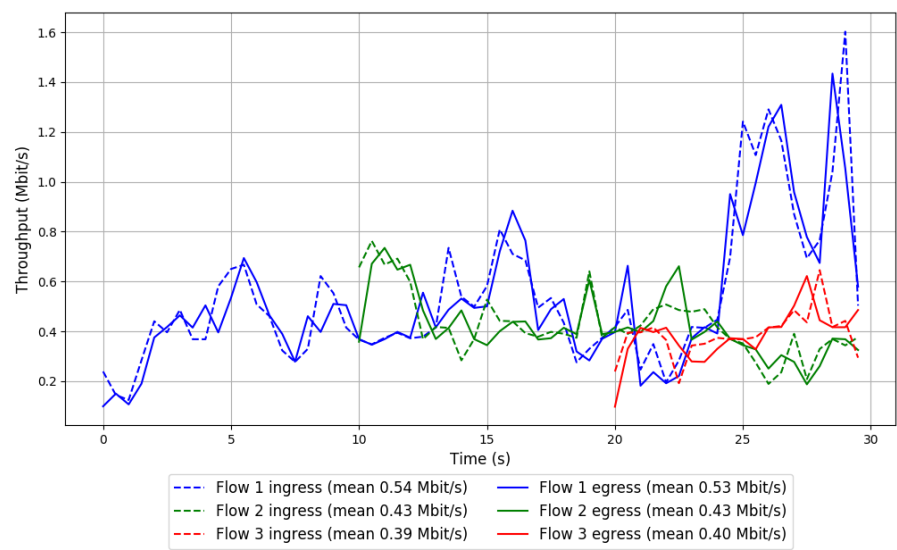


Run 3: Statistics of Sprout

Start at: 2018-02-04 18:52:25
End at: 2018-02-04 18:52:55
Local clock offset: 2.028 ms
Remote clock offset: 20.032 ms

```
# Below is generated by plot.py at 2018-02-05 03:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 206.544 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 206.656 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 206.599 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 206.019 ms
Loss rate: 0.85%
```


Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-04 19:31:56

End at: 2018-02-04 19:32:26

Local clock offset: 2.765 ms

Remote clock offset: 20.41 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 242.827 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 243.044 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 242.493 ms

Loss rate: 2.02%

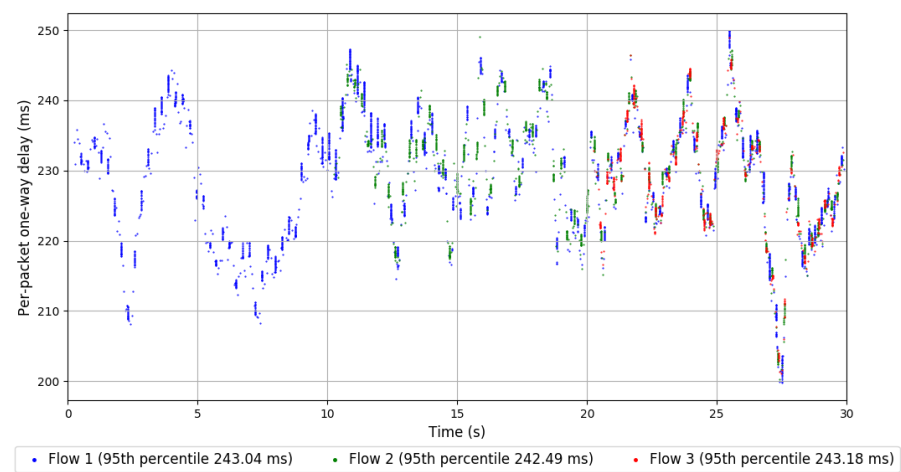
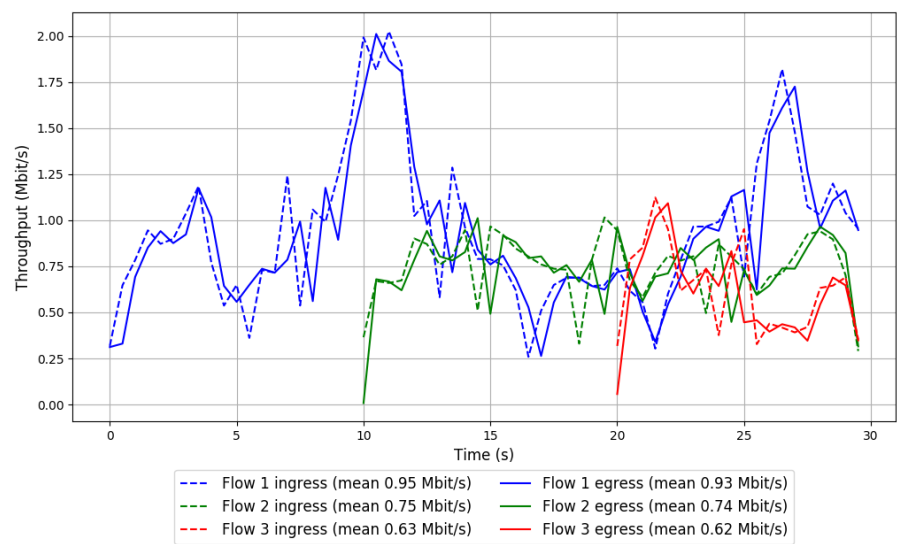
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 243.175 ms

Loss rate: 4.77%

Run 4: Report of Sprout — Data Link

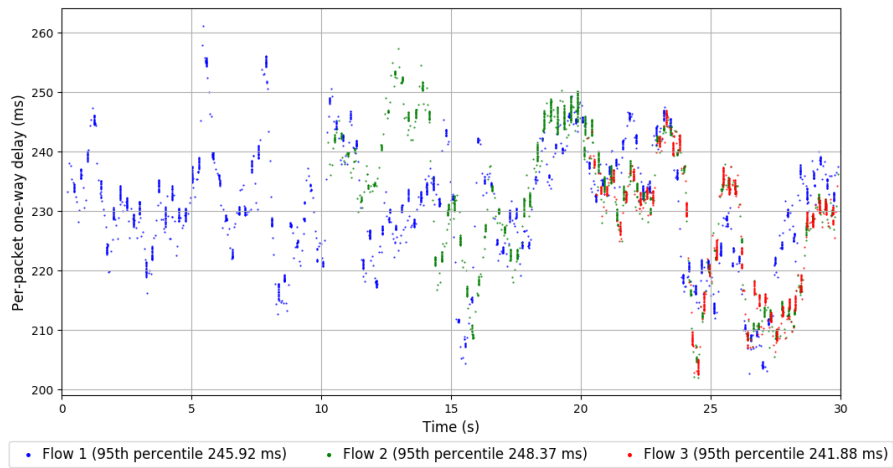
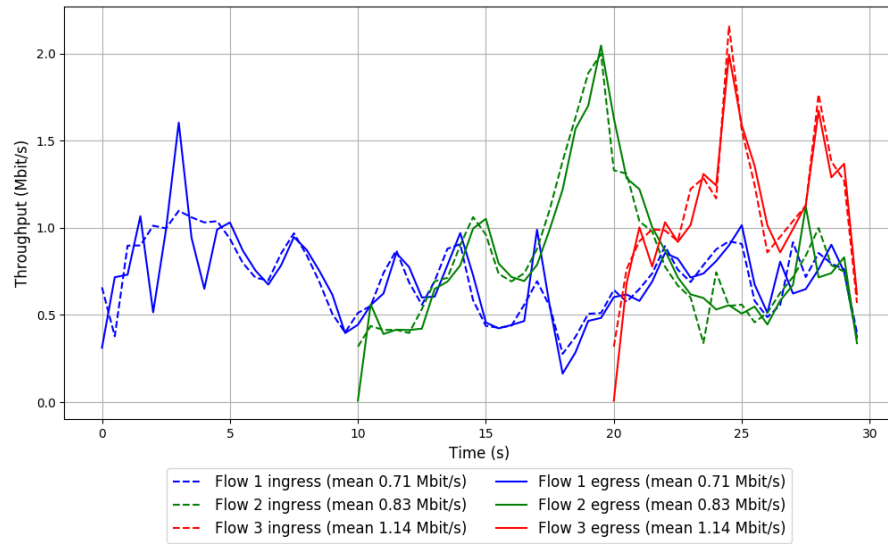


Run 5: Statistics of Sprout

Start at: 2018-02-04 20:02:04
End at: 2018-02-04 20:02:34
Local clock offset: 0.644 ms
Remote clock offset: 4.957 ms

```
# Below is generated by plot.py at 2018-02-05 03:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 246.710 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 245.916 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 248.372 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 241.880 ms
Loss rate: 2.82%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-04 20:31:56

End at: 2018-02-04 20:32:26

Local clock offset: 2.749 ms

Remote clock offset: 1.372 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 242.536 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 241.812 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 246.425 ms

Loss rate: 0.79%

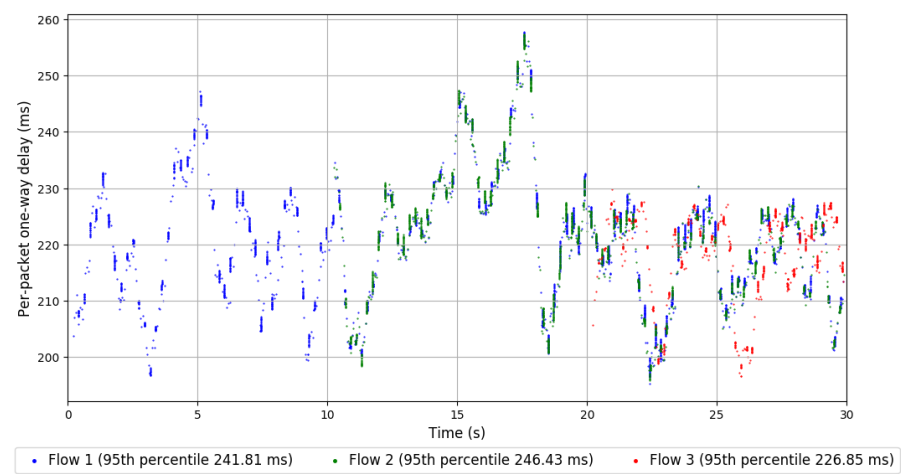
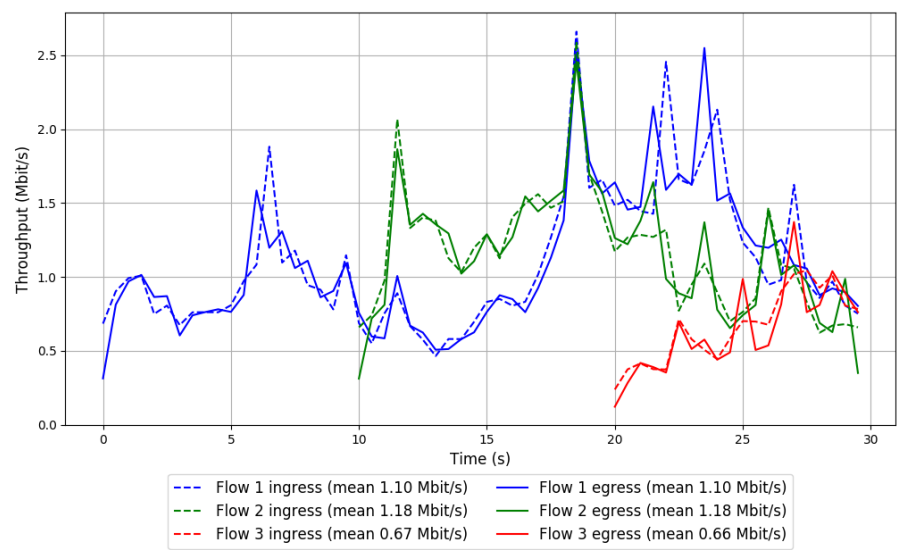
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 226.853 ms

Loss rate: 3.17%

Run 6: Report of Sprout — Data Link

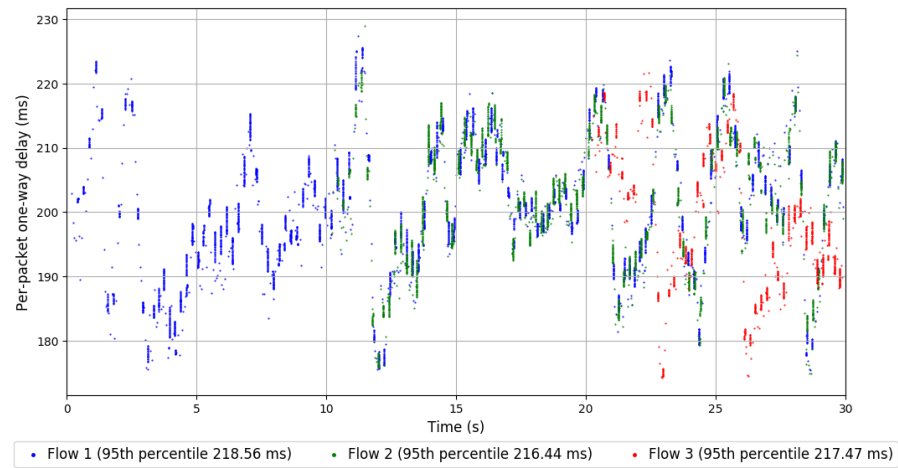
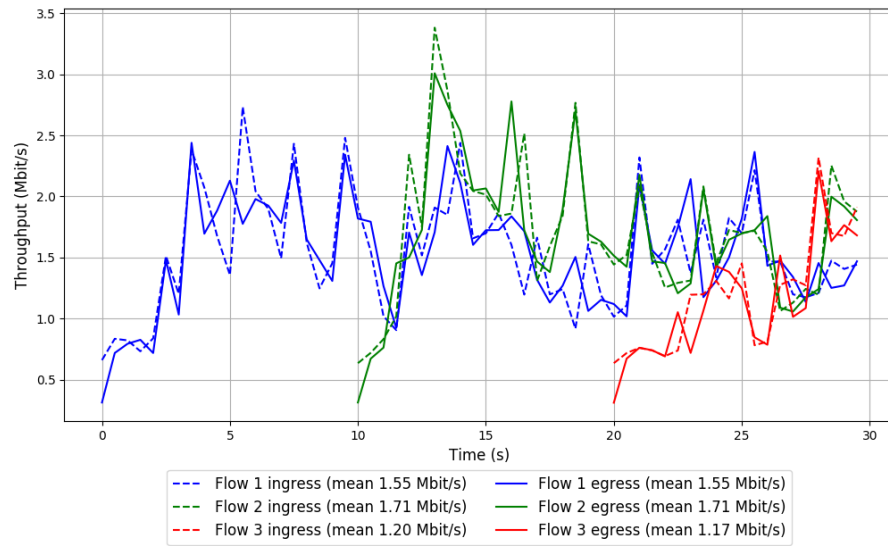


Run 7: Statistics of Sprout

Start at: 2018-02-04 21:03:37
End at: 2018-02-04 21:04:07
Local clock offset: 5.329 ms
Remote clock offset: 15.615 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 217.557 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 218.565 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 216.435 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 217.471 ms
Loss rate: 4.49%

Run 7: Report of Sprout — Data Link

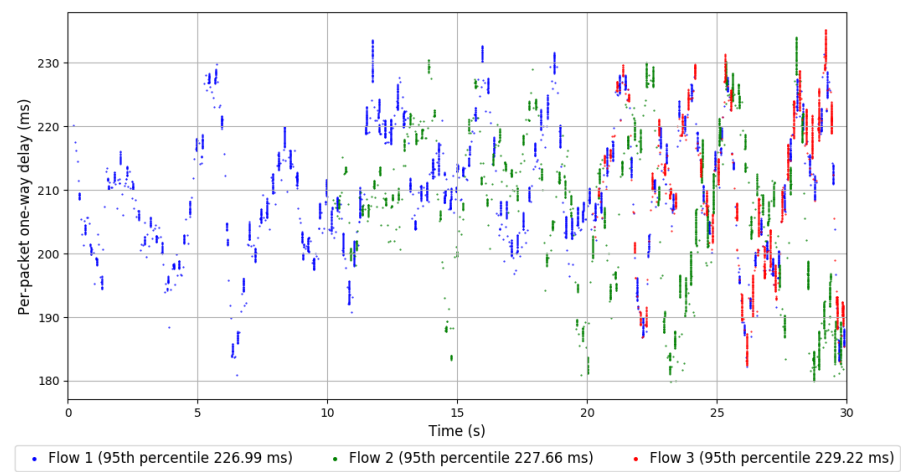
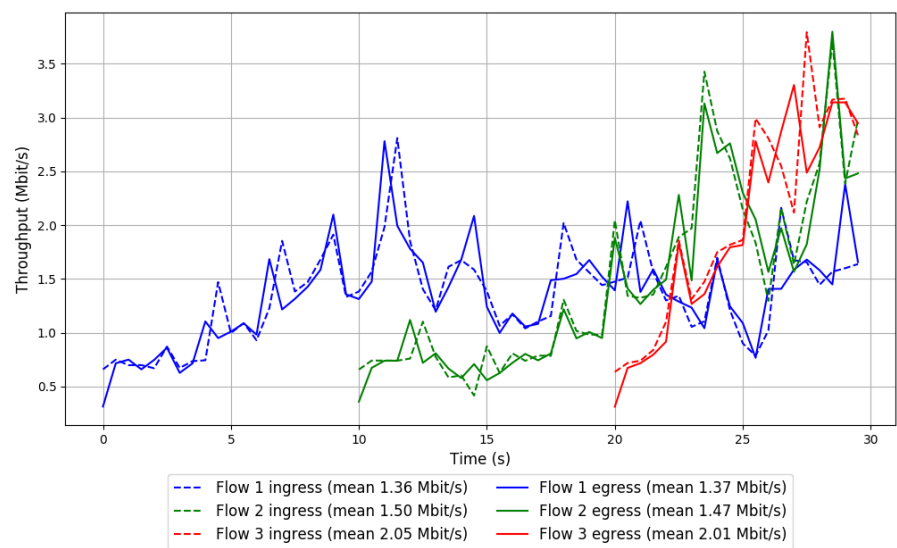


Run 8: Statistics of Sprout

Start at: 2018-02-04 21:34:24
End at: 2018-02-04 21:34:54
Local clock offset: -0.491 ms
Remote clock offset: 4.837 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 227.725 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 226.993 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 227.657 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 229.222 ms
Loss rate: 3.88%

Run 8: Report of Sprout — Data Link

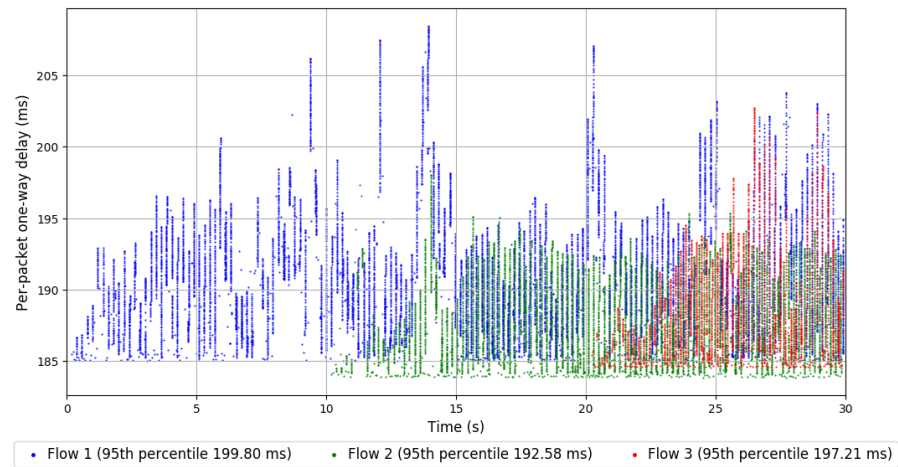
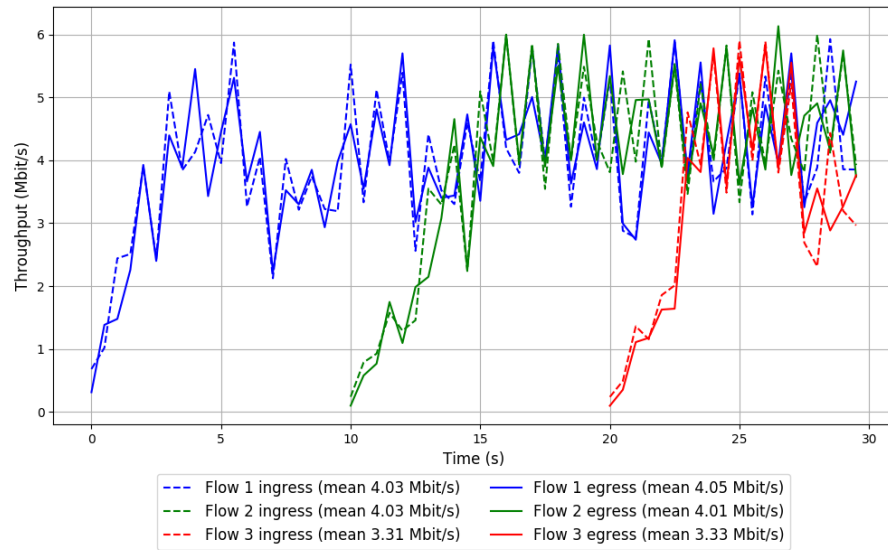


Run 9: Statistics of Sprout

Start at: 2018-02-04 22:03:11
End at: 2018-02-04 22:03:41
Local clock offset: 3.63 ms
Remote clock offset: 3.879 ms

Below is generated by plot.py at 2018-02-05 03:07:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 197.857 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 199.803 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 192.581 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 197.213 ms
Loss rate: 1.22%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-04 22:28:38

End at: 2018-02-04 22:29:08

Local clock offset: 2.391 ms

Remote clock offset: 4.375 ms

Below is generated by plot.py at 2018-02-05 03:07:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.41 Mbit/s

95th percentile per-packet one-way delay: 206.699 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 207.492 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 209.445 ms

Loss rate: 0.02%

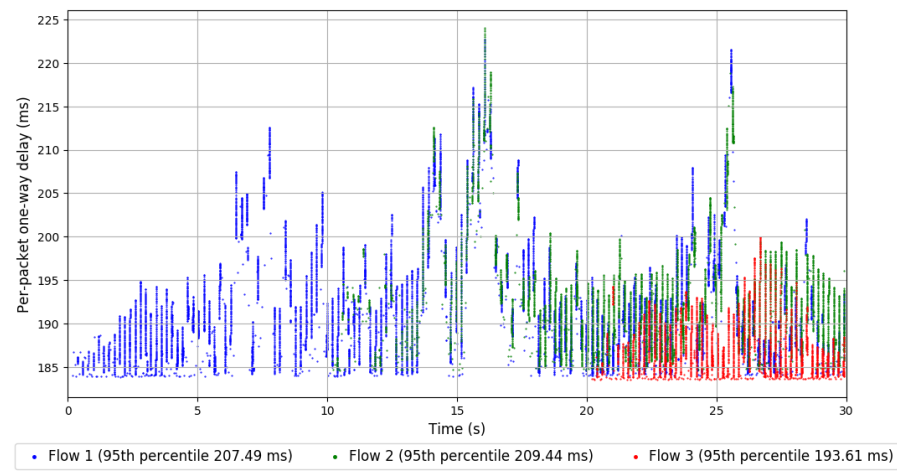
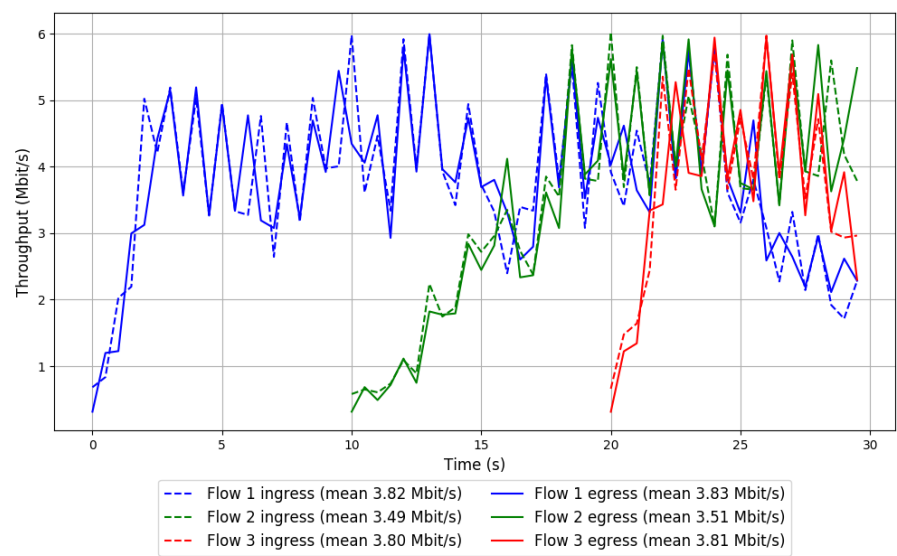
-- Flow 3:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 193.611 ms

Loss rate: 1.54%

Run 10: Report of Sprout — Data Link

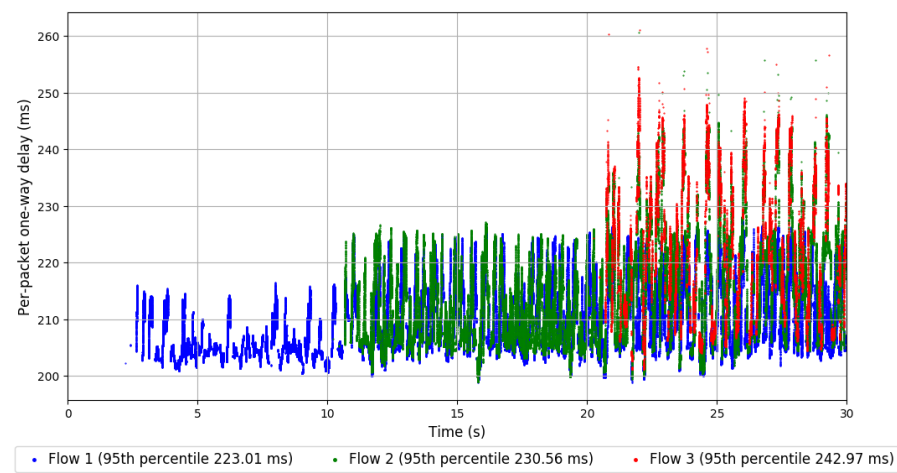
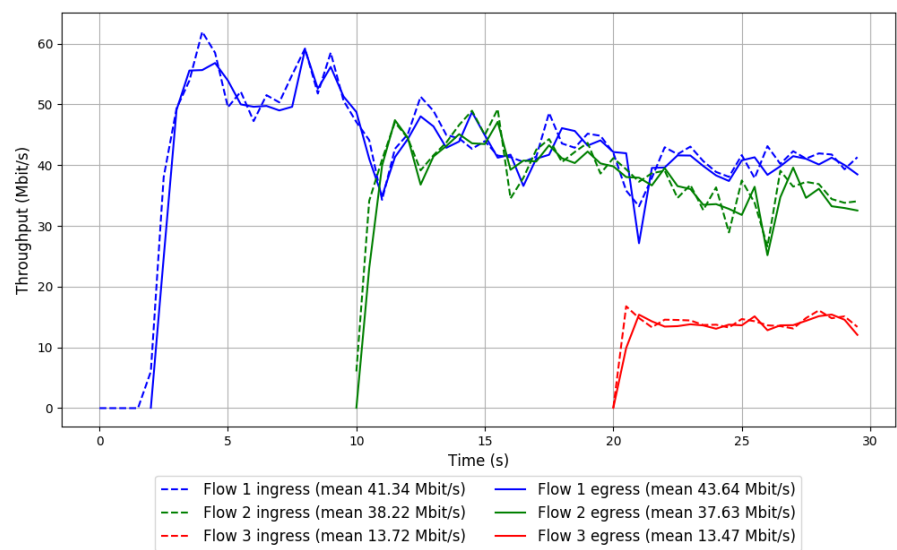


Run 1: Statistics of TaoVA-100x

Start at: 2018-02-04 17:38:41
End at: 2018-02-04 17:39:11
Local clock offset: 1.042 ms
Remote clock offset: 30.913 ms

Below is generated by plot.py at 2018-02-05 03:08:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.10 Mbit/s
95th percentile per-packet one-way delay: 226.459 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 43.64 Mbit/s
95th percentile per-packet one-way delay: 223.009 ms
Loss rate: 2.28%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 230.555 ms
Loss rate: 2.65%
-- Flow 3:
Average throughput: 13.47 Mbit/s
95th percentile per-packet one-way delay: 242.974 ms
Loss rate: 4.19%

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

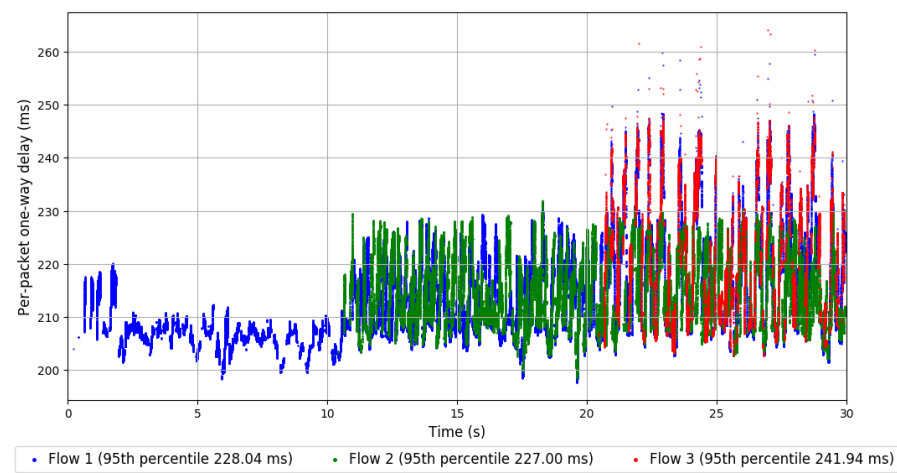
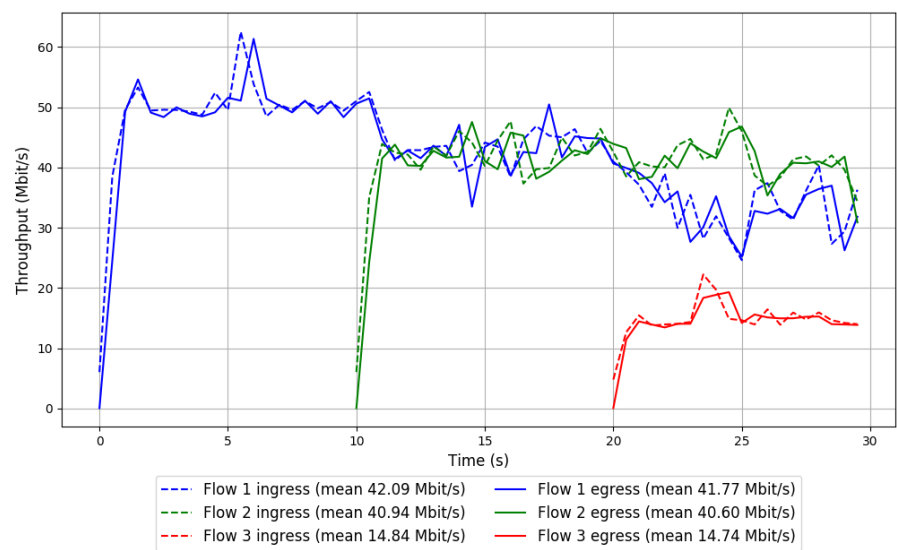


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-04 18:23:32
End at: 2018-02-04 18:24:02
Local clock offset: 4.891 ms
Remote clock offset: 22.288 ms

Below is generated by plot.py at 2018-02-05 03:09:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 228.611 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 228.041 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 226.995 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 241.941 ms
Loss rate: 3.11%

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

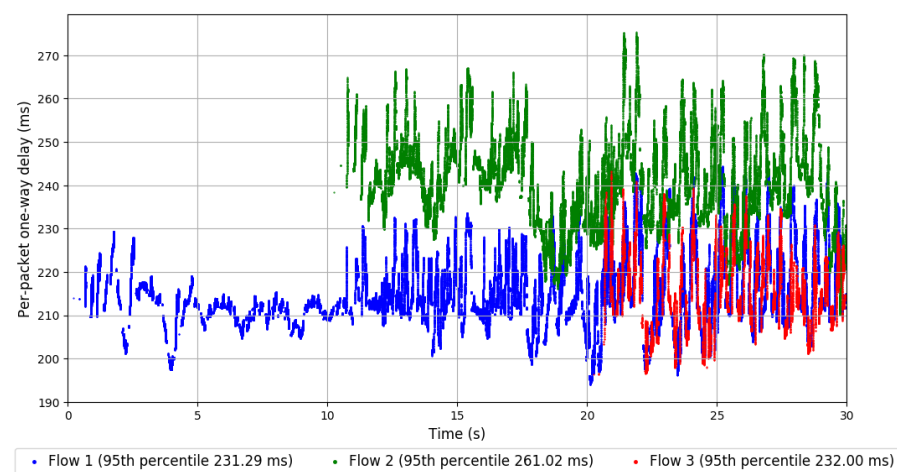
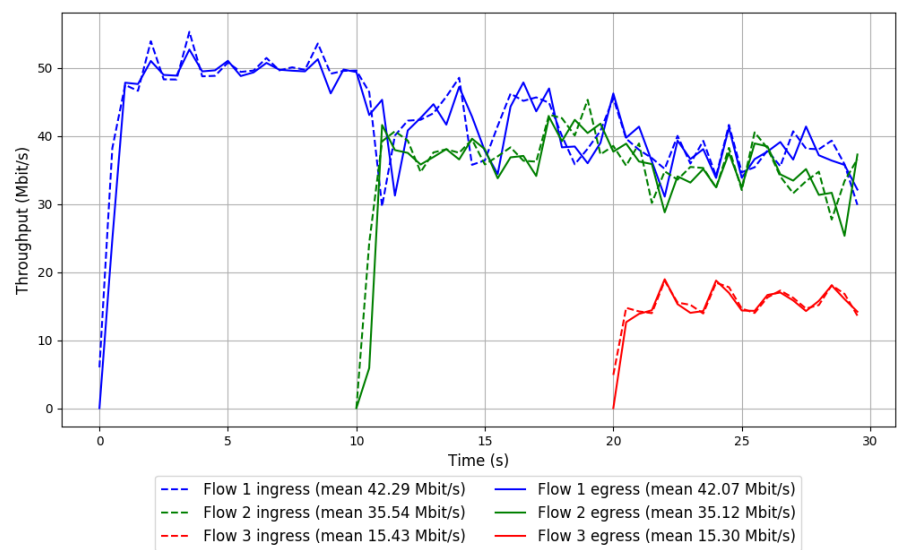


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-04 19:04:10
End at: 2018-02-04 19:04:40
Local clock offset: 0.264 ms
Remote clock offset: 11.895 ms

Below is generated by plot.py at 2018-02-05 03:09:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.32 Mbit/s
95th percentile per-packet one-way delay: 252.353 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 231.287 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 35.12 Mbit/s
95th percentile per-packet one-way delay: 261.016 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 232.003 ms
Loss rate: 2.79%

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

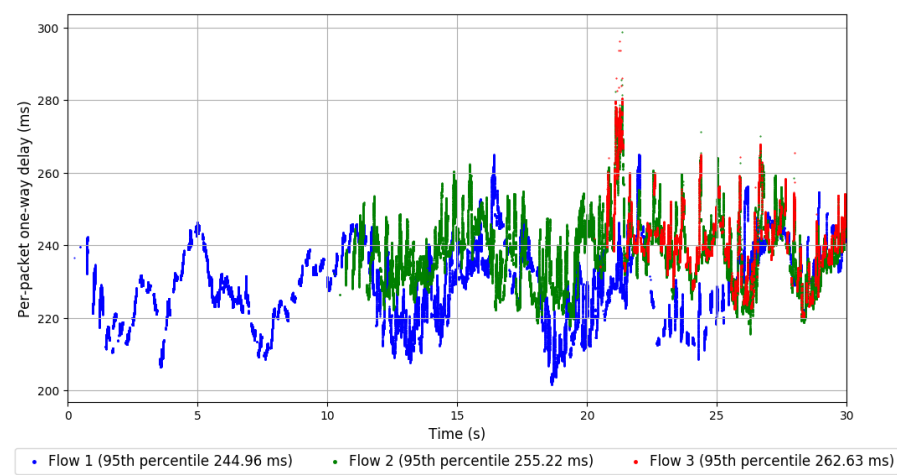
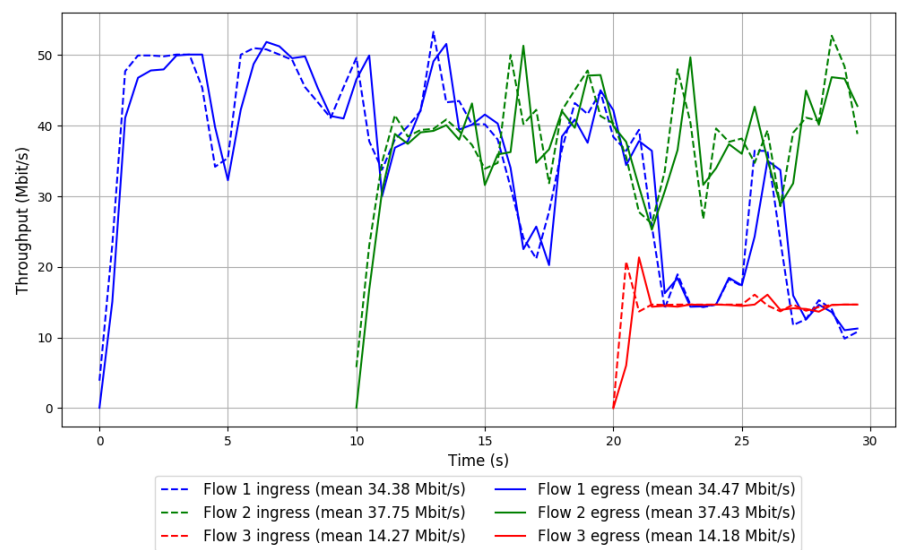


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-04 19:42:00
End at: 2018-02-04 19:42:30
Local clock offset: -0.477 ms
Remote clock offset: 12.057 ms

Below is generated by plot.py at 2018-02-05 03:09:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 252.518 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 244.961 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 37.43 Mbit/s
95th percentile per-packet one-way delay: 255.216 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 14.18 Mbit/s
95th percentile per-packet one-way delay: 262.630 ms
Loss rate: 3.10%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-04 20:10:43

End at: 2018-02-04 20:11:13

Local clock offset: 0.516 ms

Remote clock offset: 4.415 ms

Below is generated by plot.py at 2018-02-05 03:09:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.65 Mbit/s

95th percentile per-packet one-way delay: 247.223 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 36.28 Mbit/s

95th percentile per-packet one-way delay: 242.920 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 250.527 ms

Loss rate: 1.53%

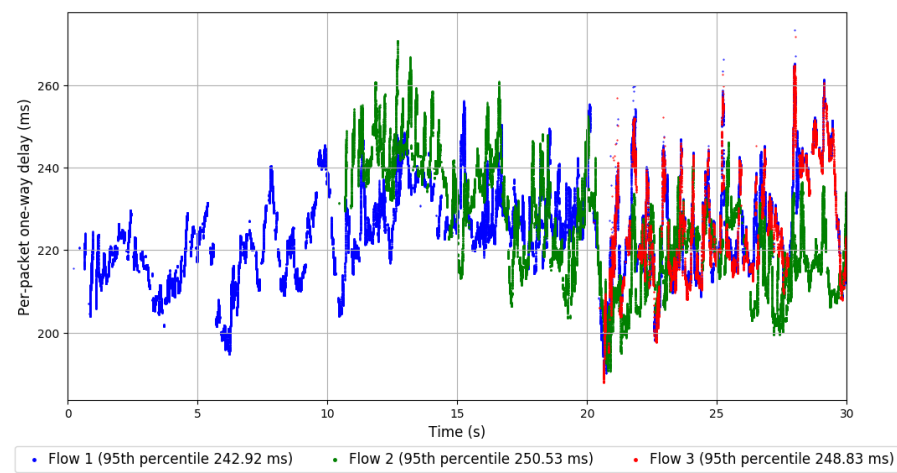
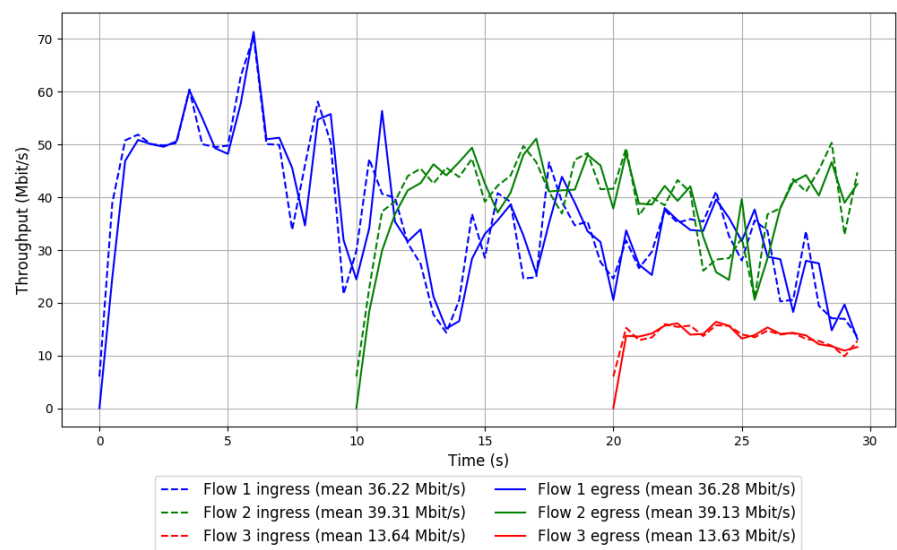
-- Flow 3:

Average throughput: 13.63 Mbit/s

95th percentile per-packet one-way delay: 248.829 ms

Loss rate: 2.24%

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

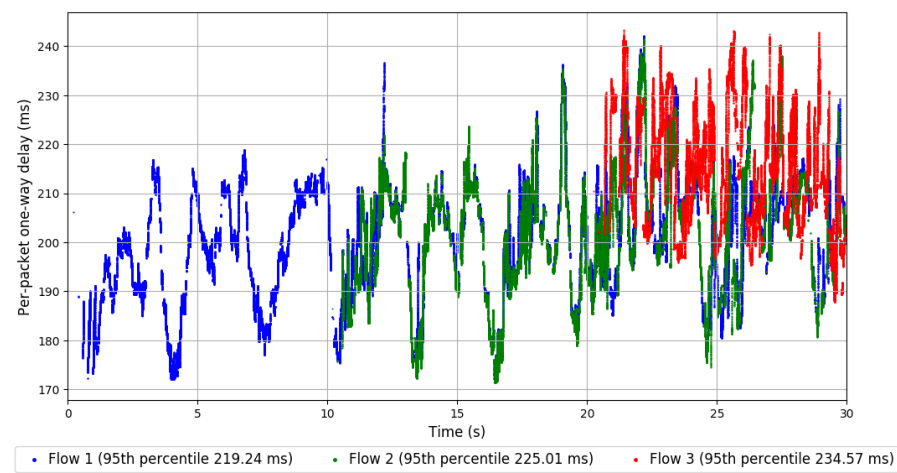
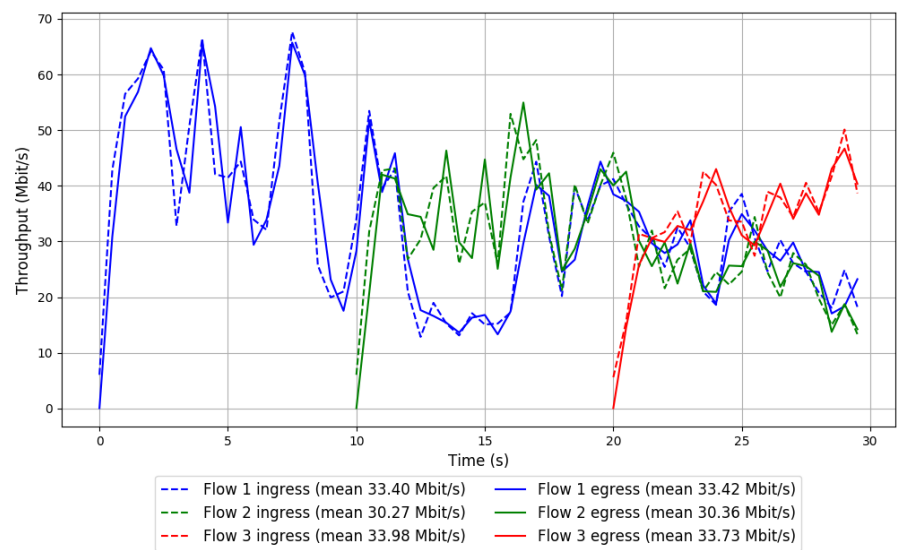


Run 6: Statistics of TaoVA-100x

Start at: 2018-02-04 20:41:55
End at: 2018-02-04 20:42:25
Local clock offset: 3.523 ms
Remote clock offset: 16.145 ms

Below is generated by plot.py at 2018-02-05 03:09:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.61 Mbit/s
95th percentile per-packet one-way delay: 228.345 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 33.42 Mbit/s
95th percentile per-packet one-way delay: 219.240 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 225.006 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 234.574 ms
Loss rate: 2.91%

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

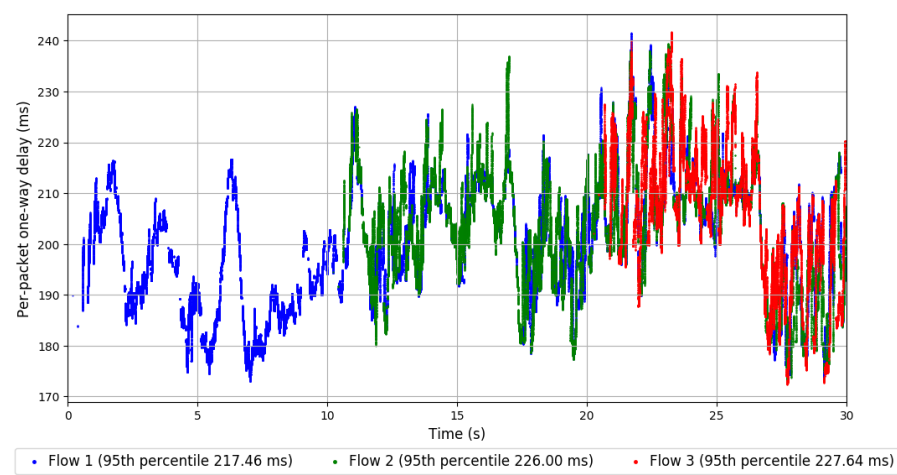
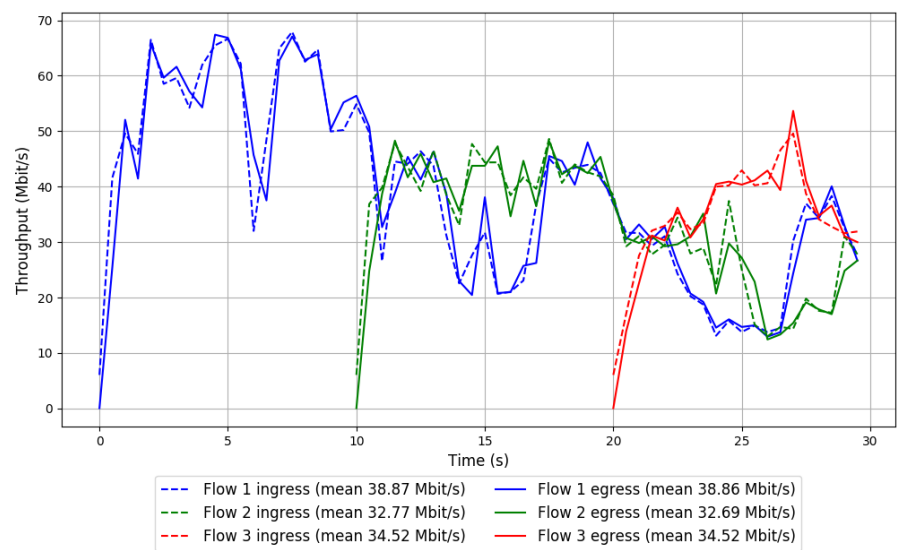


Run 7: Statistics of TaoVA-100x

Start at: 2018-02-04 21:13:44
End at: 2018-02-04 21:14:14
Local clock offset: 4.31 ms
Remote clock offset: 16.727 ms

Below is generated by plot.py at 2018-02-05 03:09:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.82 Mbit/s
95th percentile per-packet one-way delay: 223.514 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 217.463 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 226.001 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 227.644 ms
Loss rate: 2.13%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-04 21:43:54

End at: 2018-02-04 21:44:24

Local clock offset: 4.302 ms

Remote clock offset: 4.233 ms

Below is generated by plot.py at 2018-02-05 03:09:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 232.554 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 228.624 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 25.41 Mbit/s

95th percentile per-packet one-way delay: 234.207 ms

Loss rate: 0.67%

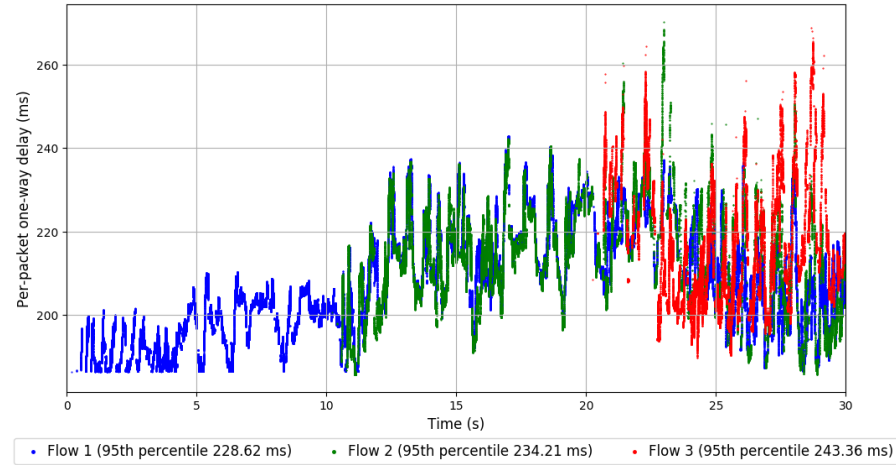
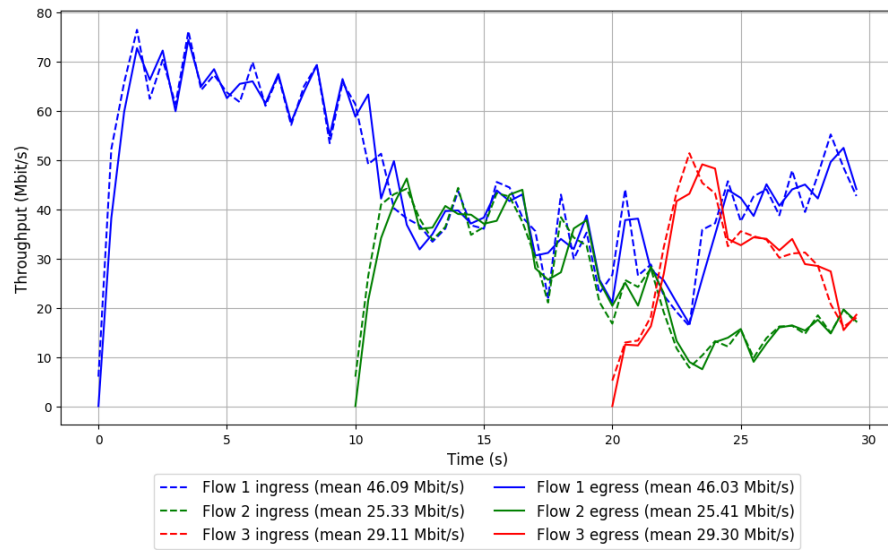
-- Flow 3:

Average throughput: 29.30 Mbit/s

95th percentile per-packet one-way delay: 243.361 ms

Loss rate: 1.38%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-04 22:11:16

End at: 2018-02-04 22:11:46

Local clock offset: 3.485 ms

Remote clock offset: 2.755 ms

Below is generated by plot.py at 2018-02-05 03:11:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.58 Mbit/s

95th percentile per-packet one-way delay: 213.921 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 209.970 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 37.75 Mbit/s

95th percentile per-packet one-way delay: 217.410 ms

Loss rate: 0.77%

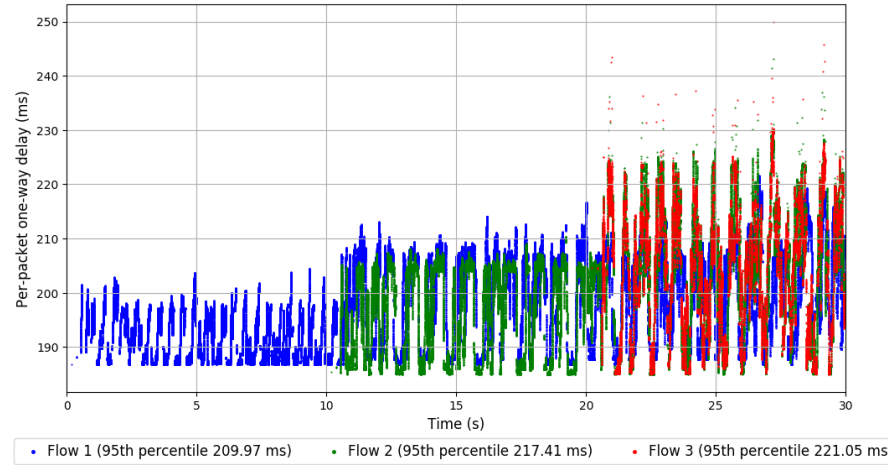
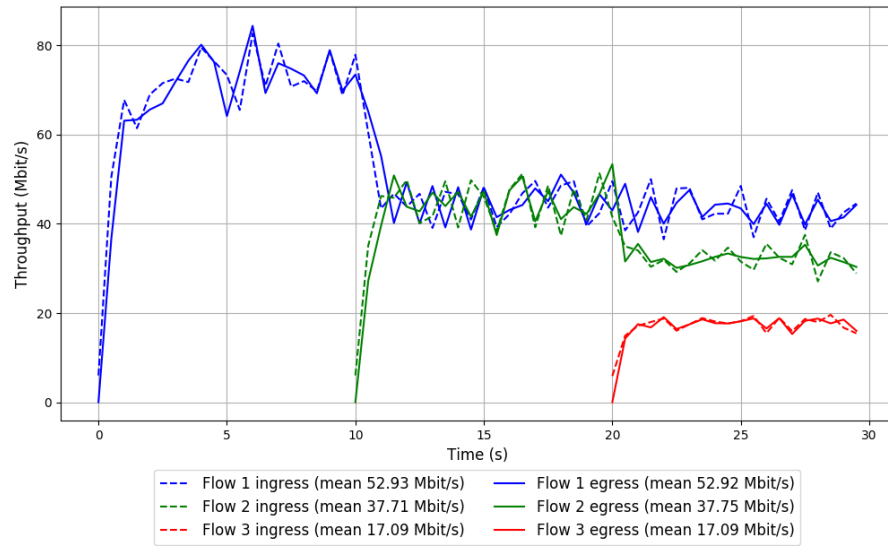
-- Flow 3:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 221.048 ms

Loss rate: 1.99%

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

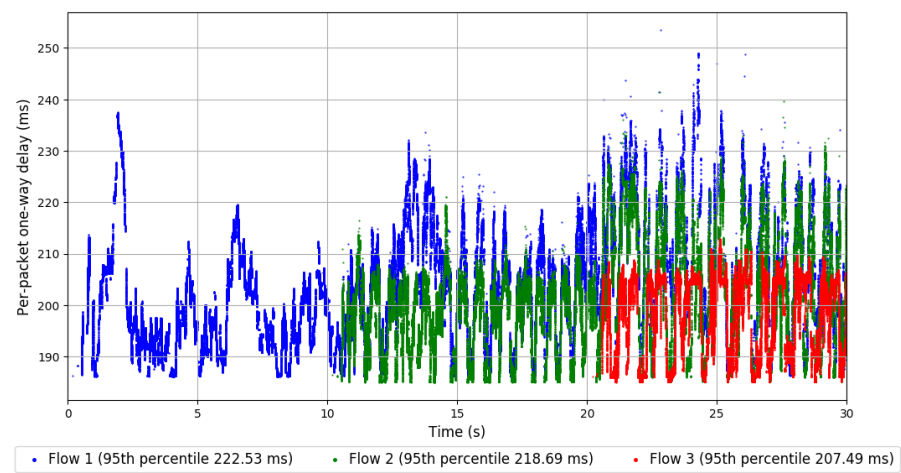
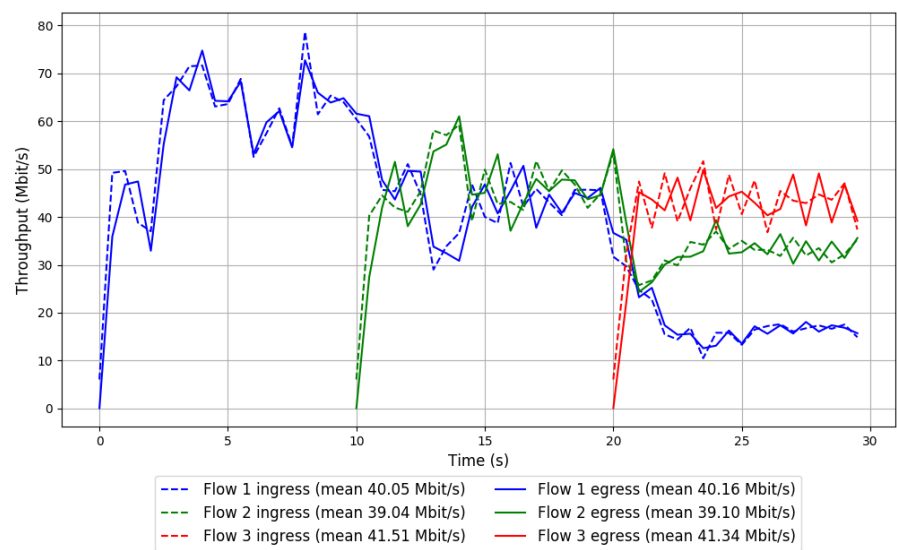


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-04 22:36:37
End at: 2018-02-04 22:37:07
Local clock offset: 3.901 ms
Remote clock offset: 6.31 ms

# Below is generated by plot.py at 2018-02-05 03:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.64 Mbit/s
95th percentile per-packet one-way delay: 219.960 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 222.528 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 218.693 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 41.34 Mbit/s
95th percentile per-packet one-way delay: 207.486 ms
Loss rate: 2.16%
```

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

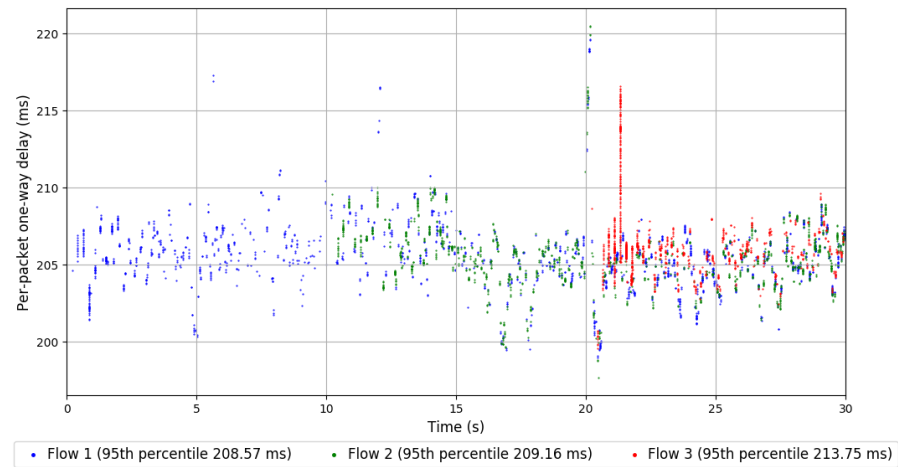
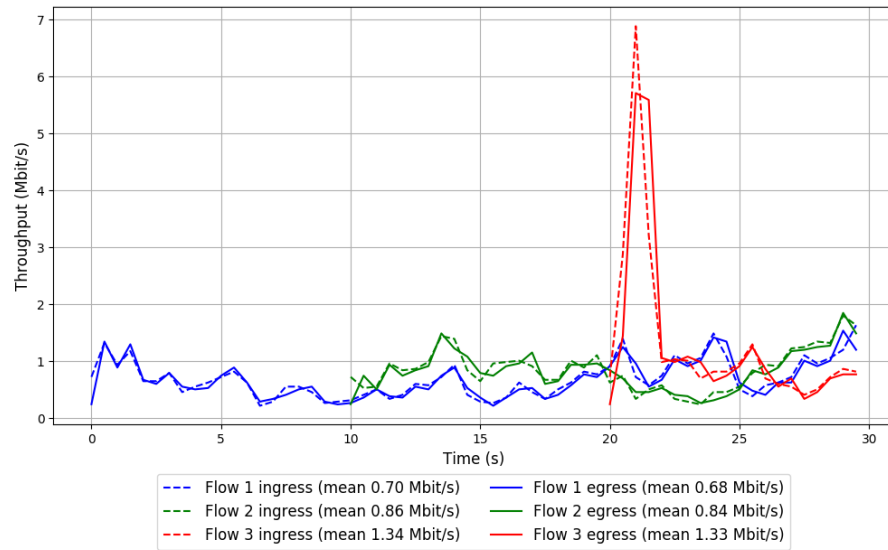


Run 1: Statistics of TCP Vegas

Start at: 2018-02-04 17:37:14
End at: 2018-02-04 17:37:44
Local clock offset: 1.106 ms
Remote clock offset: 31.163 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 209.423 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 208.570 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 209.165 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 213.754 ms
Loss rate: 2.63%

Run 1: Report of TCP Vegas — Data Link

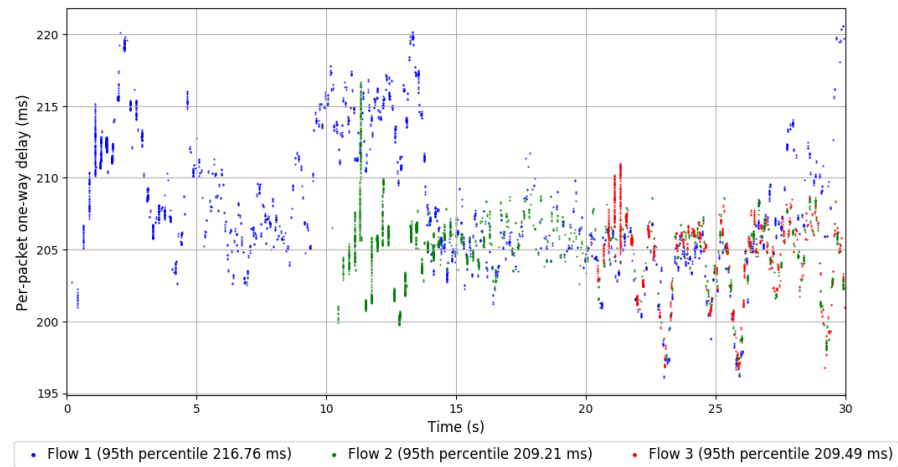
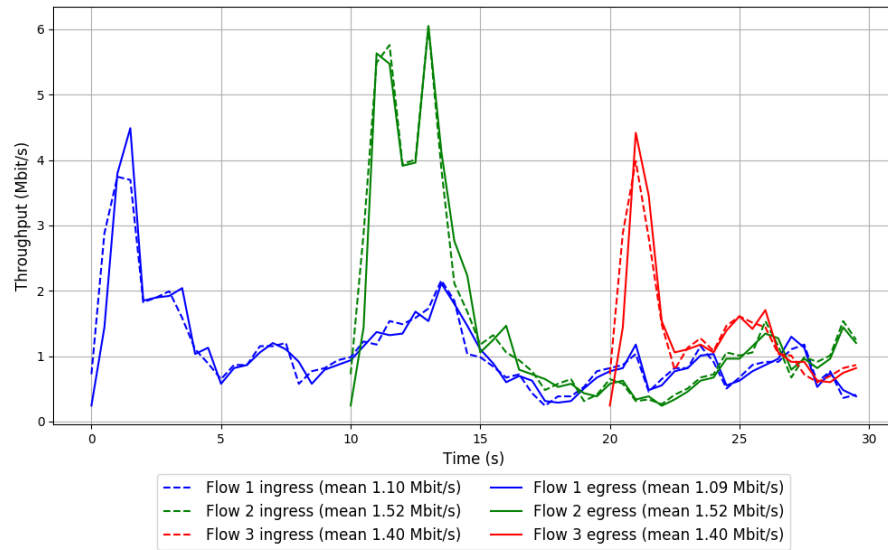


Run 2: Statistics of TCP Vegas

Start at: 2018-02-04 18:22:12
End at: 2018-02-04 18:22:42
Local clock offset: 2.414 ms
Remote clock offset: 21.181 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 215.255 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 216.762 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 209.214 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 209.485 ms
Loss rate: 2.32%

Run 2: Report of TCP Vegas — Data Link

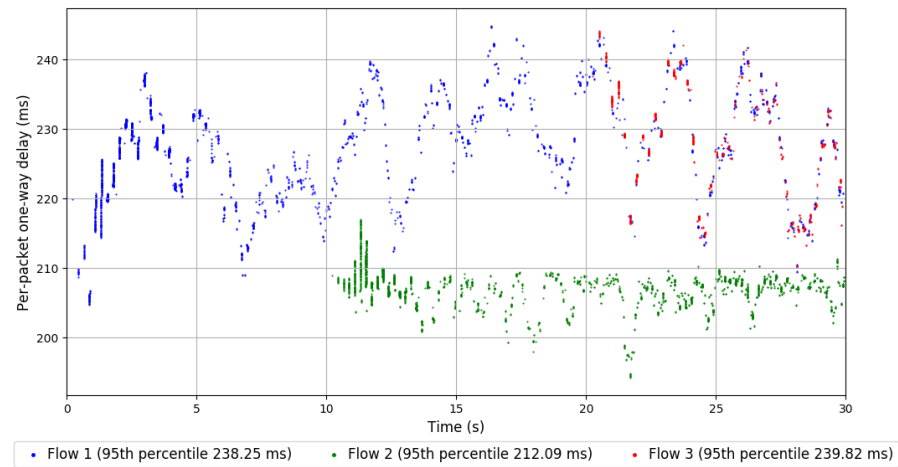
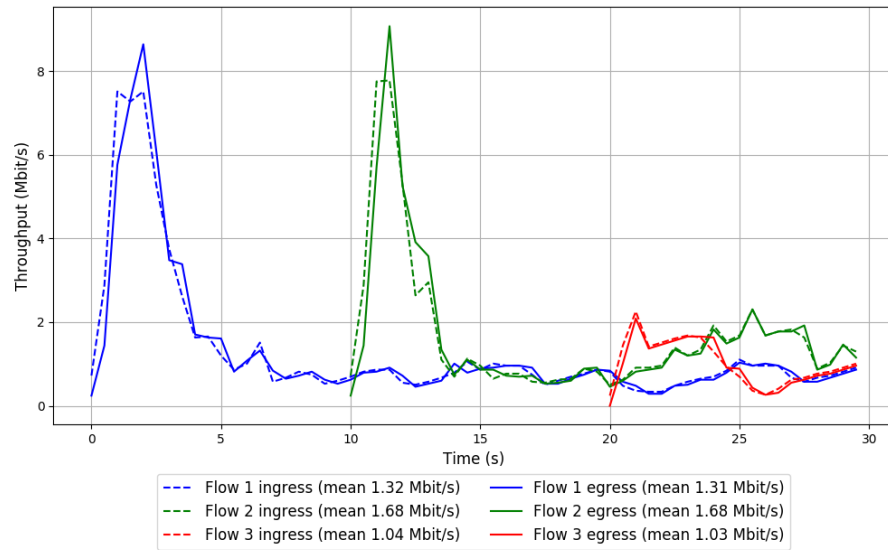


Run 3: Statistics of TCP Vegas

Start at: 2018-02-04 19:02:50
End at: 2018-02-04 19:03:20
Local clock offset: 3.481 ms
Remote clock offset: 18.597 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 237.759 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 238.246 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 212.089 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 239.824 ms
Loss rate: 3.97%

Run 3: Report of TCP Vegas — Data Link

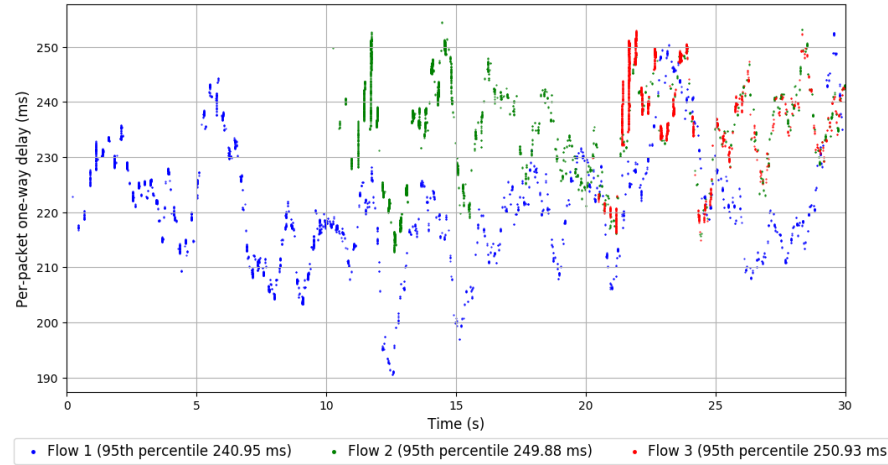
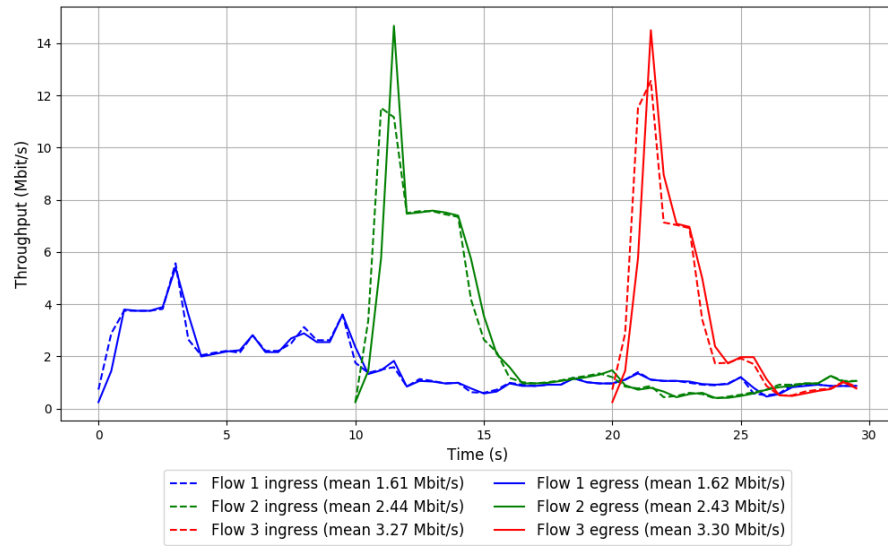


Run 4: Statistics of TCP Vegas

Start at: 2018-02-04 19:40:39
End at: 2018-02-04 19:41:09
Local clock offset: 1.707 ms
Remote clock offset: 13.114 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 249.706 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 240.953 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 249.885 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 250.930 ms
Loss rate: 1.99%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-04 20:09:26

End at: 2018-02-04 20:09:56

Local clock offset: 0.963 ms

Remote clock offset: 4.778 ms

Below is generated by plot.py at 2018-02-05 03:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 247.231 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 241.038 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 252.987 ms

Loss rate: 1.09%

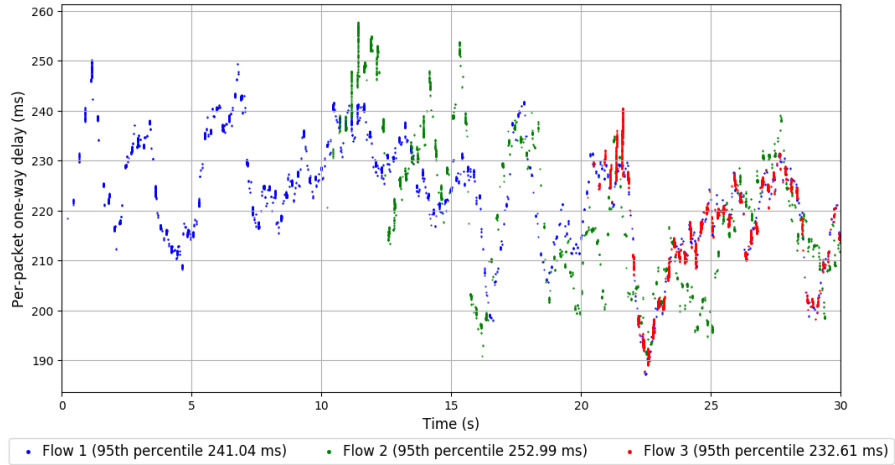
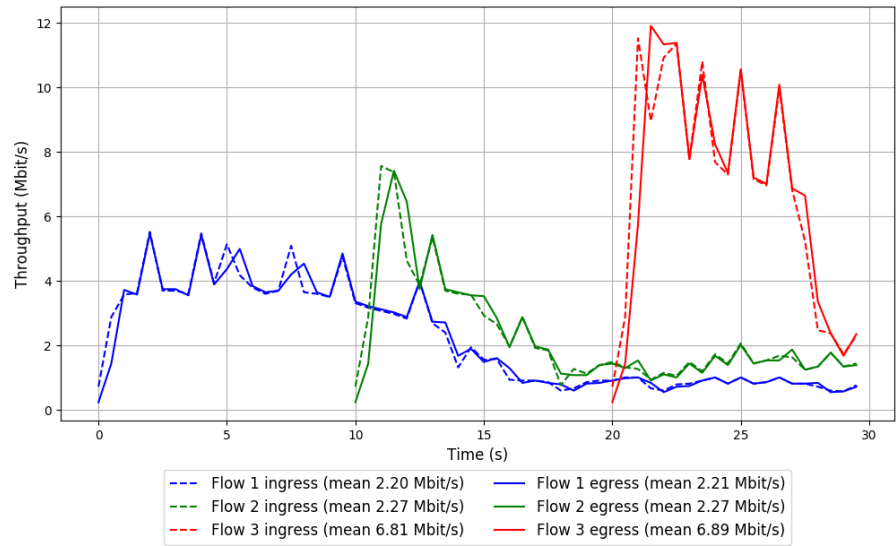
-- Flow 3:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 232.612 ms

Loss rate: 1.12%

Run 5: Report of TCP Vegas — Data Link

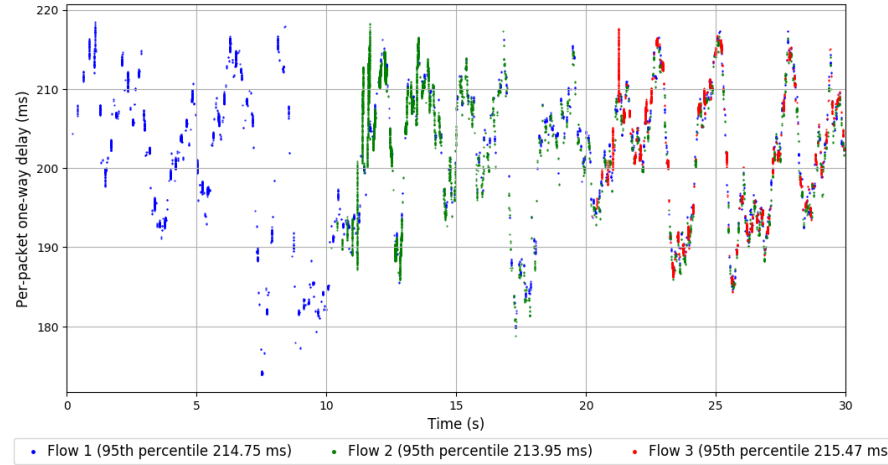
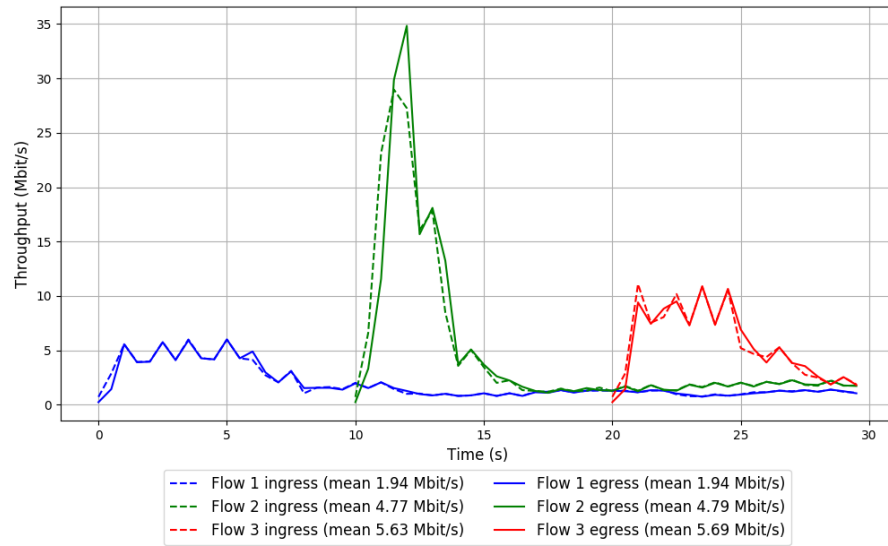


Run 6: Statistics of TCP Vegas

Start at: 2018-02-04 20:40:34
End at: 2018-02-04 20:41:04
Local clock offset: 4.59 ms
Remote clock offset: 16.636 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 214.664 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 214.745 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 213.954 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 215.474 ms
Loss rate: 0.93%

Run 6: Report of TCP Vegas — Data Link

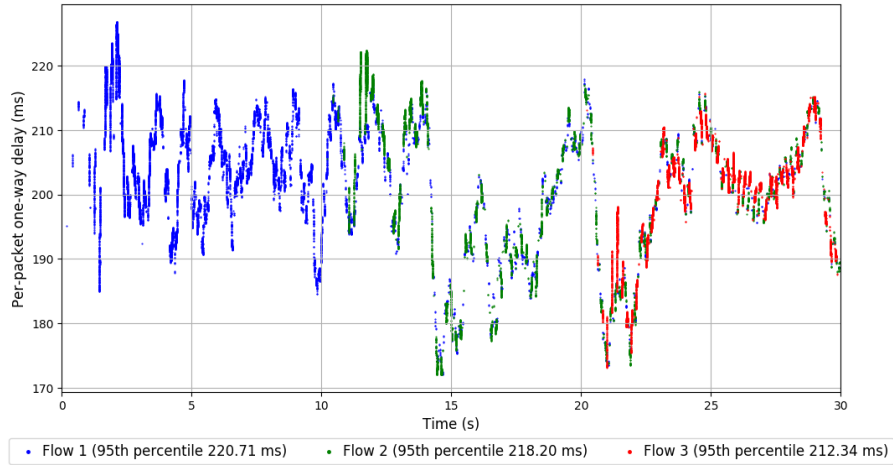
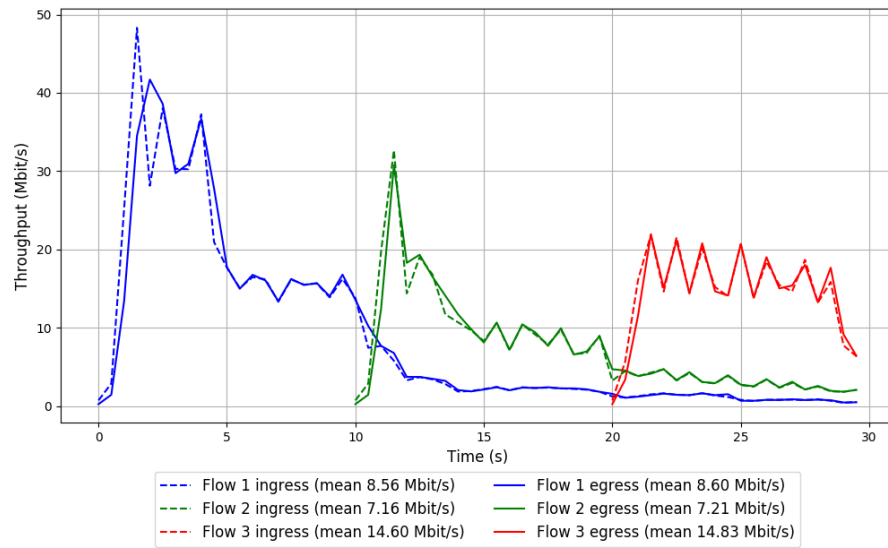


Run 7: Statistics of TCP Vegas

Start at: 2018-02-04 21:12:20
End at: 2018-02-04 21:12:50
Local clock offset: 3.204 ms
Remote clock offset: 15.674 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 218.821 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 220.712 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 218.199 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 14.83 Mbit/s
95th percentile per-packet one-way delay: 212.341 ms
Loss rate: 1.14%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-04 21:42:18

End at: 2018-02-04 21:42:48

Local clock offset: 1.738 ms

Remote clock offset: 1.725 ms

Below is generated by plot.py at 2018-02-05 03:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.18 Mbit/s

95th percentile per-packet one-way delay: 215.178 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 20.14 Mbit/s

95th percentile per-packet one-way delay: 206.853 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 223.722 ms

Loss rate: 1.11%

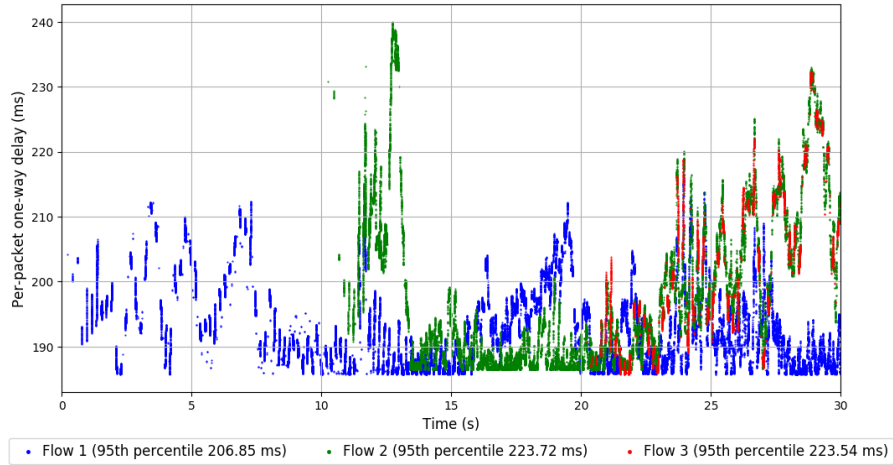
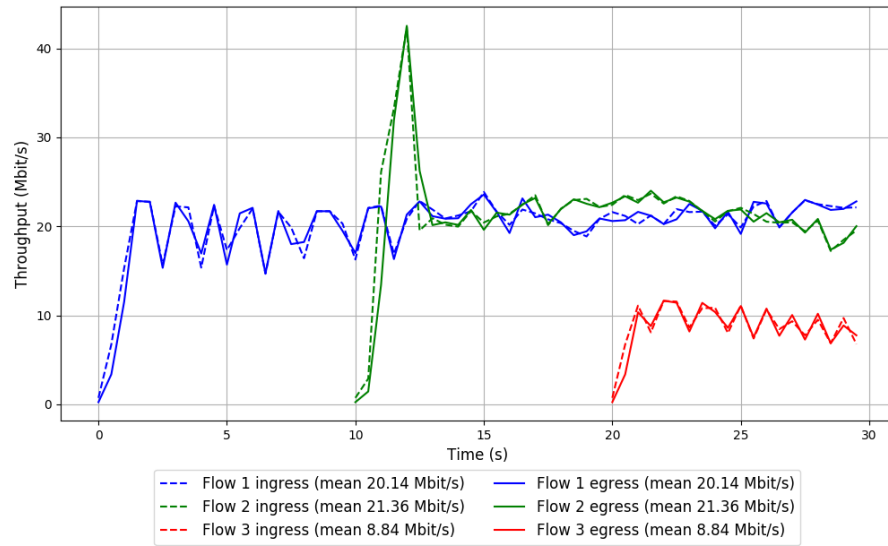
-- Flow 3:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 223.536 ms

Loss rate: 1.86%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-04 22:09:51

End at: 2018-02-04 22:10:21

Local clock offset: 4.516 ms

Remote clock offset: 3.234 ms

Below is generated by plot.py at 2018-02-05 03:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.74 Mbit/s

95th percentile per-packet one-way delay: 238.552 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 238.219 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 215.982 ms

Loss rate: 0.97%

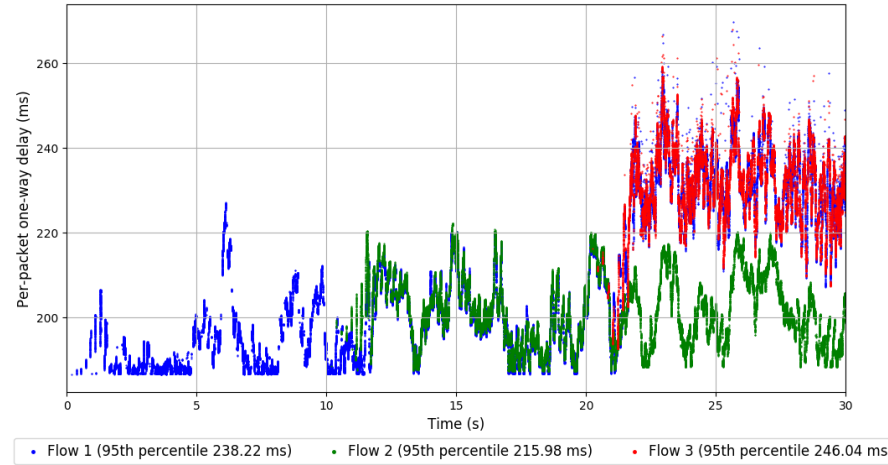
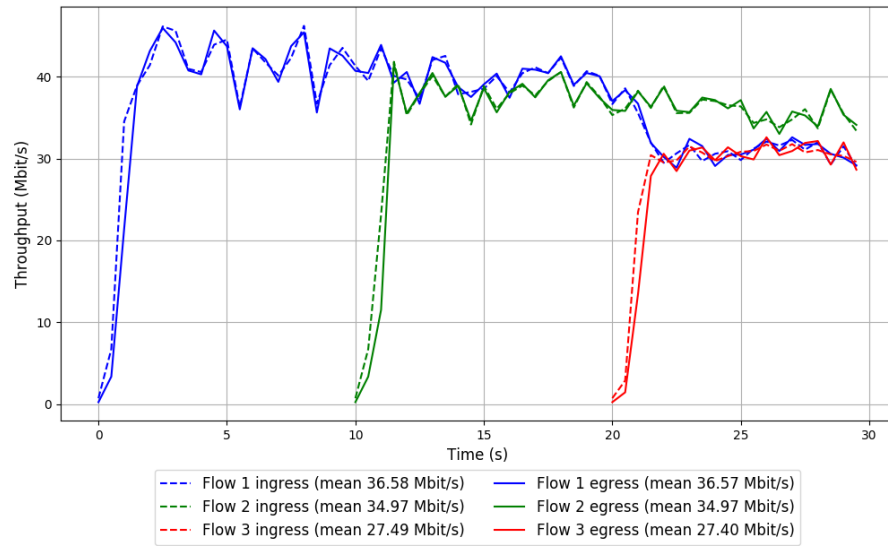
-- Flow 3:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 246.036 ms

Loss rate: 2.51%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-04 22:35:13

End at: 2018-02-04 22:35:43

Local clock offset: 3.3 ms

Remote clock offset: 5.637 ms

Below is generated by plot.py at 2018-02-05 03:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 214.920 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 36.99 Mbit/s

95th percentile per-packet one-way delay: 218.376 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 195.595 ms

Loss rate: 1.09%

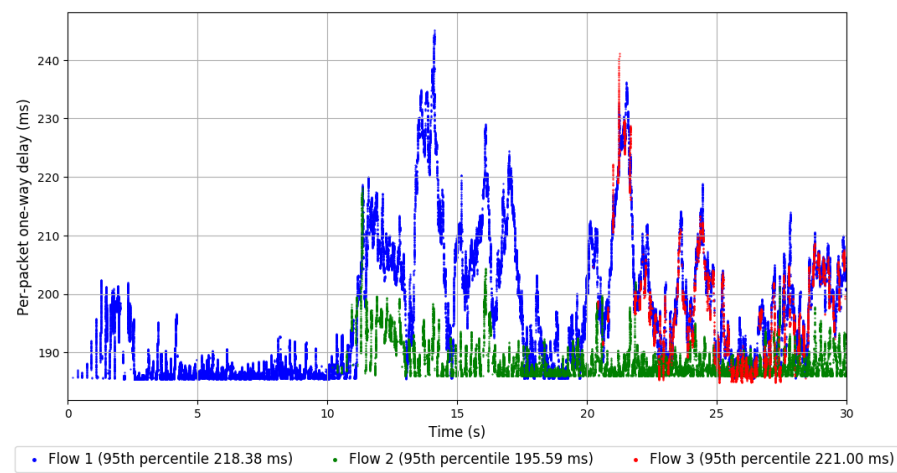
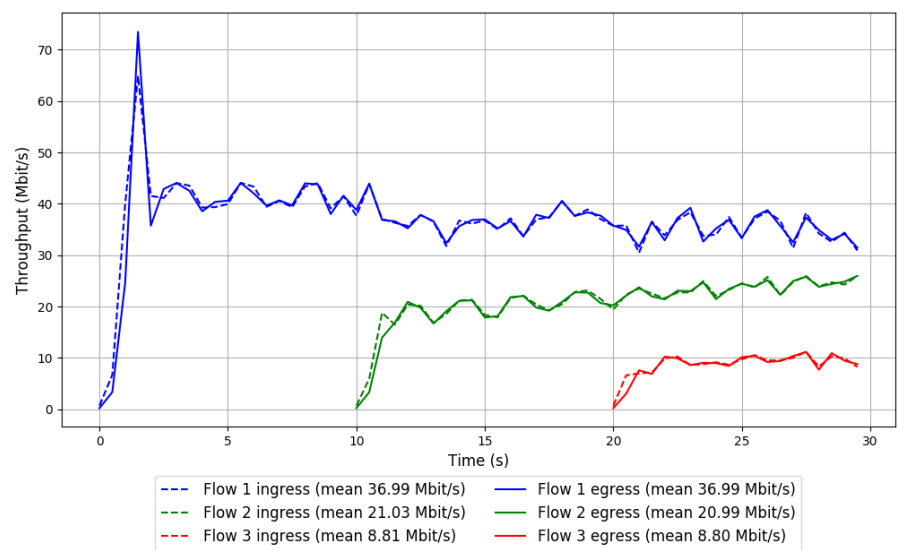
-- Flow 3:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 221.001 ms

Loss rate: 2.06%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-04 17:23:20

End at: 2018-02-04 17:23:50

Local clock offset: 3.756 ms

Remote clock offset: 50.67 ms

Below is generated by plot.py at 2018-02-05 03:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.52 Mbit/s

95th percentile per-packet one-way delay: 231.676 ms

Loss rate: 3.10%

-- Flow 1:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 232.538 ms

Loss rate: 3.29%

-- Flow 2:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 230.150 ms

Loss rate: 1.86%

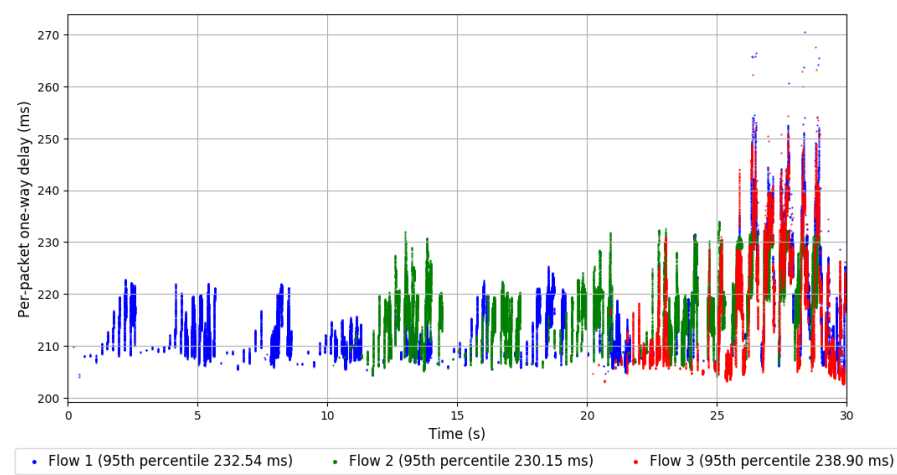
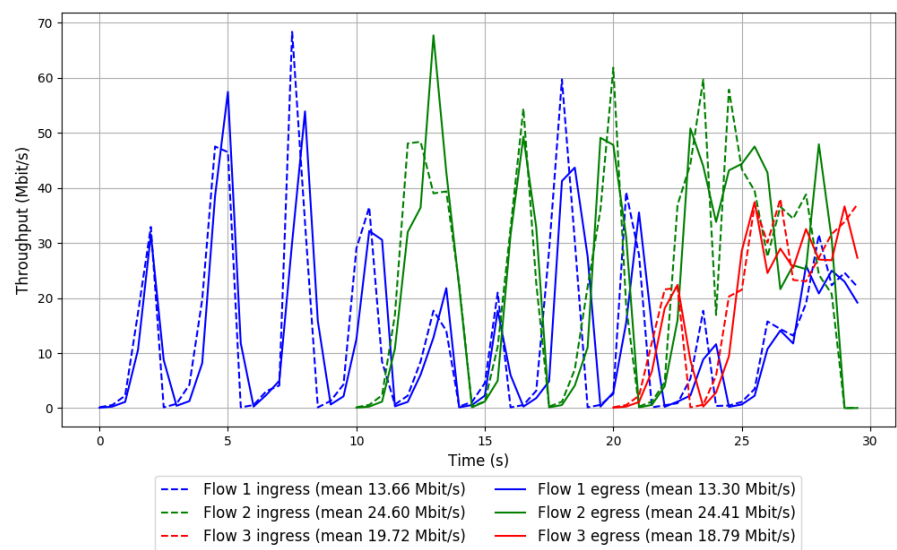
-- Flow 3:

Average throughput: 18.79 Mbit/s

95th percentile per-packet one-way delay: 238.895 ms

Loss rate: 5.82%

Run 1: Report of Verus — Data Link

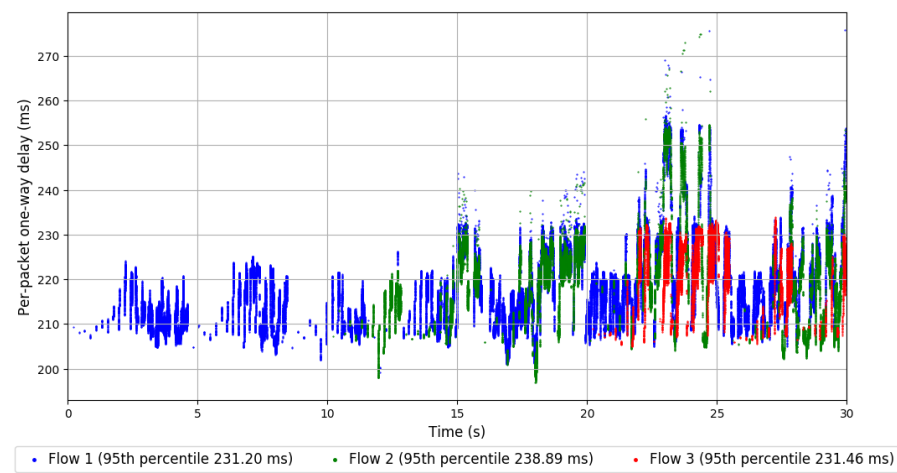
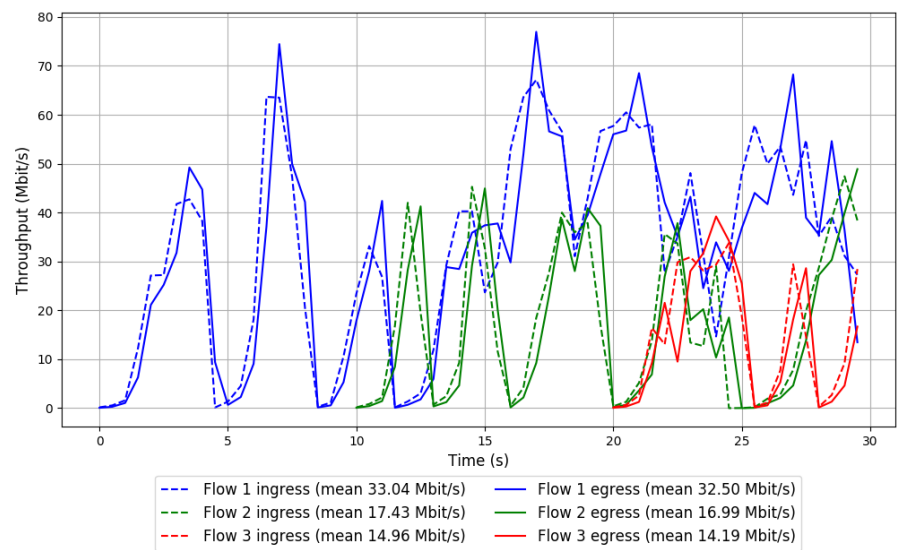


Run 2: Statistics of Verus

Start at: 2018-02-04 18:06:29
End at: 2018-02-04 18:06:59
Local clock offset: 2.596 ms
Remote clock offset: 22.985 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 231.595 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 231.202 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 16.99 Mbit/s
95th percentile per-packet one-way delay: 238.888 ms
Loss rate: 3.63%
-- Flow 3:
Average throughput: 14.19 Mbit/s
95th percentile per-packet one-way delay: 231.464 ms
Loss rate: 7.21%

Run 2: Report of Verus — Data Link

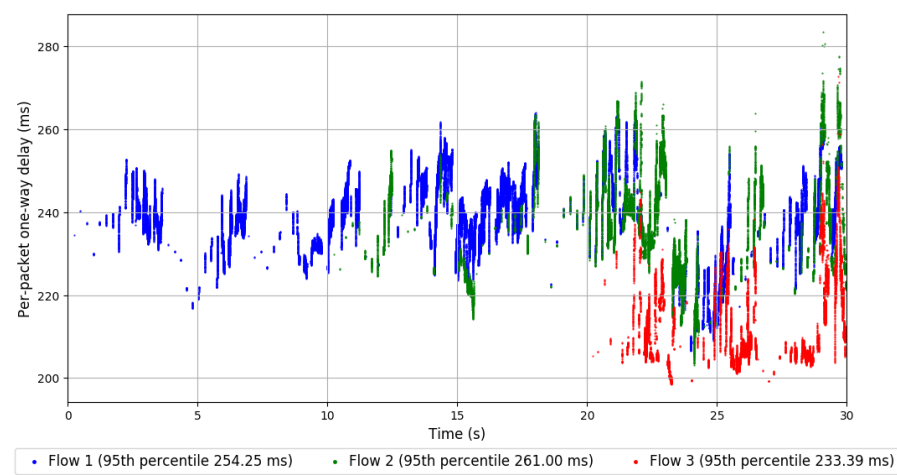
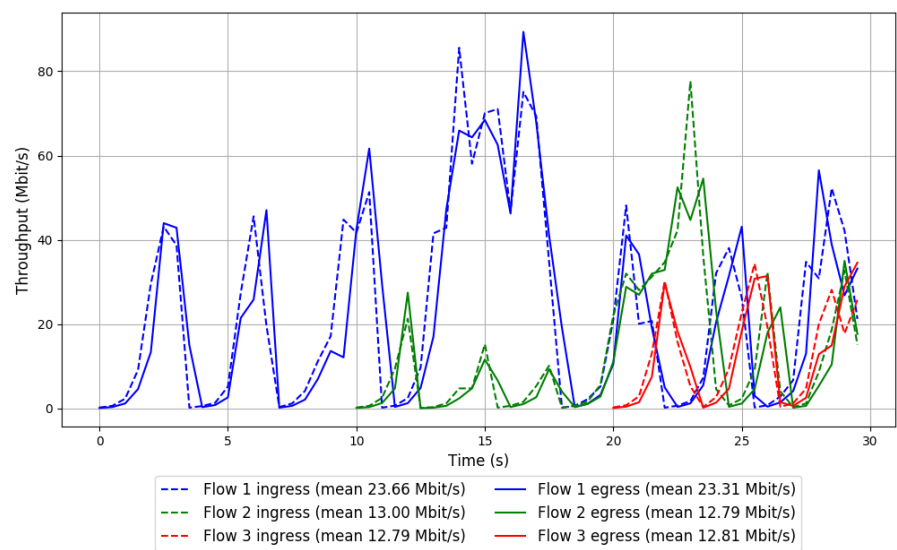


Run 3: Statistics of Verus

Start at: 2018-02-04 18:48:39
End at: 2018-02-04 18:49:09
Local clock offset: 2.785 ms
Remote clock offset: 19.344 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 255.609 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 23.31 Mbit/s
95th percentile per-packet one-way delay: 254.250 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 260.997 ms
Loss rate: 2.82%
-- Flow 3:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 233.393 ms
Loss rate: 1.93%

Run 3: Report of Verus — Data Link

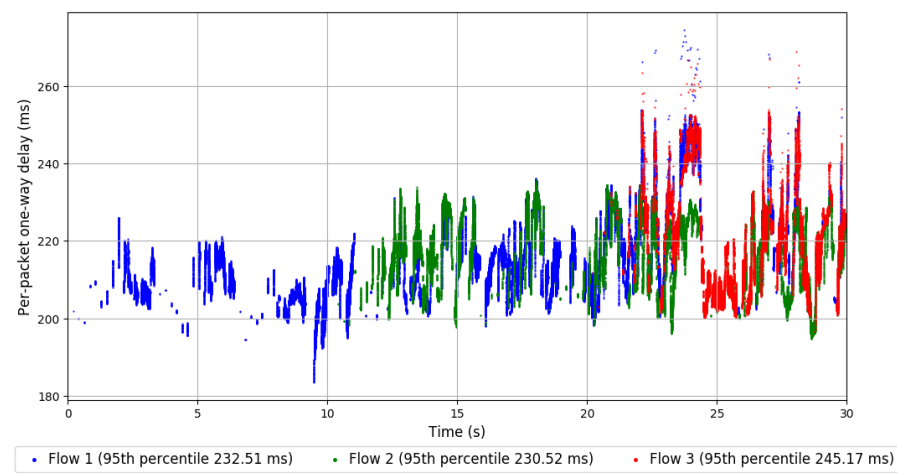
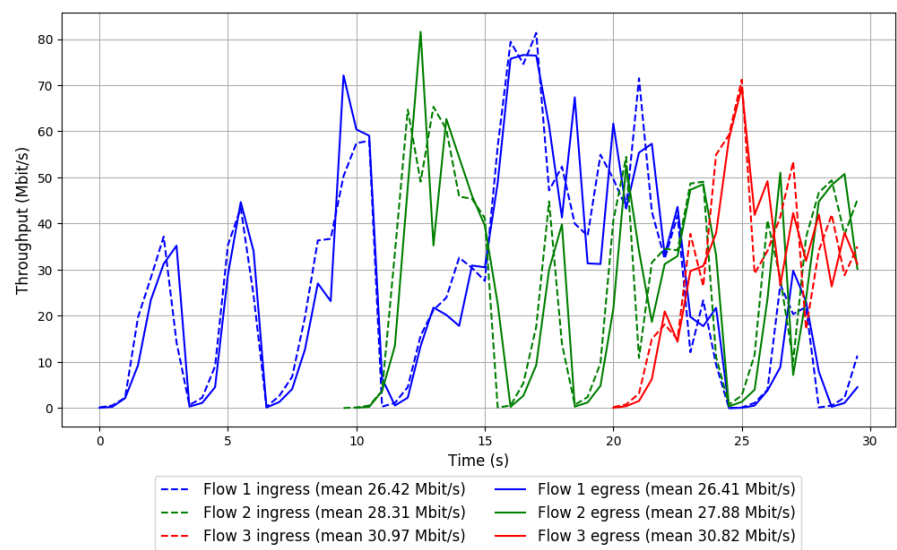


Run 4: Statistics of Verus

Start at: 2018-02-04 19:28:04
End at: 2018-02-04 19:28:34
Local clock offset: 0.082 ms
Remote clock offset: 17.836 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.87 Mbit/s
95th percentile per-packet one-way delay: 232.722 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 26.41 Mbit/s
95th percentile per-packet one-way delay: 232.510 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 27.88 Mbit/s
95th percentile per-packet one-way delay: 230.524 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 30.82 Mbit/s
95th percentile per-packet one-way delay: 245.167 ms
Loss rate: 2.81%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-04 19:59:01

End at: 2018-02-04 19:59:31

Local clock offset: 0.562 ms

Remote clock offset: 4.851 ms

Below is generated by plot.py at 2018-02-05 03:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 268.764 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 267.828 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 270.460 ms

Loss rate: 1.87%

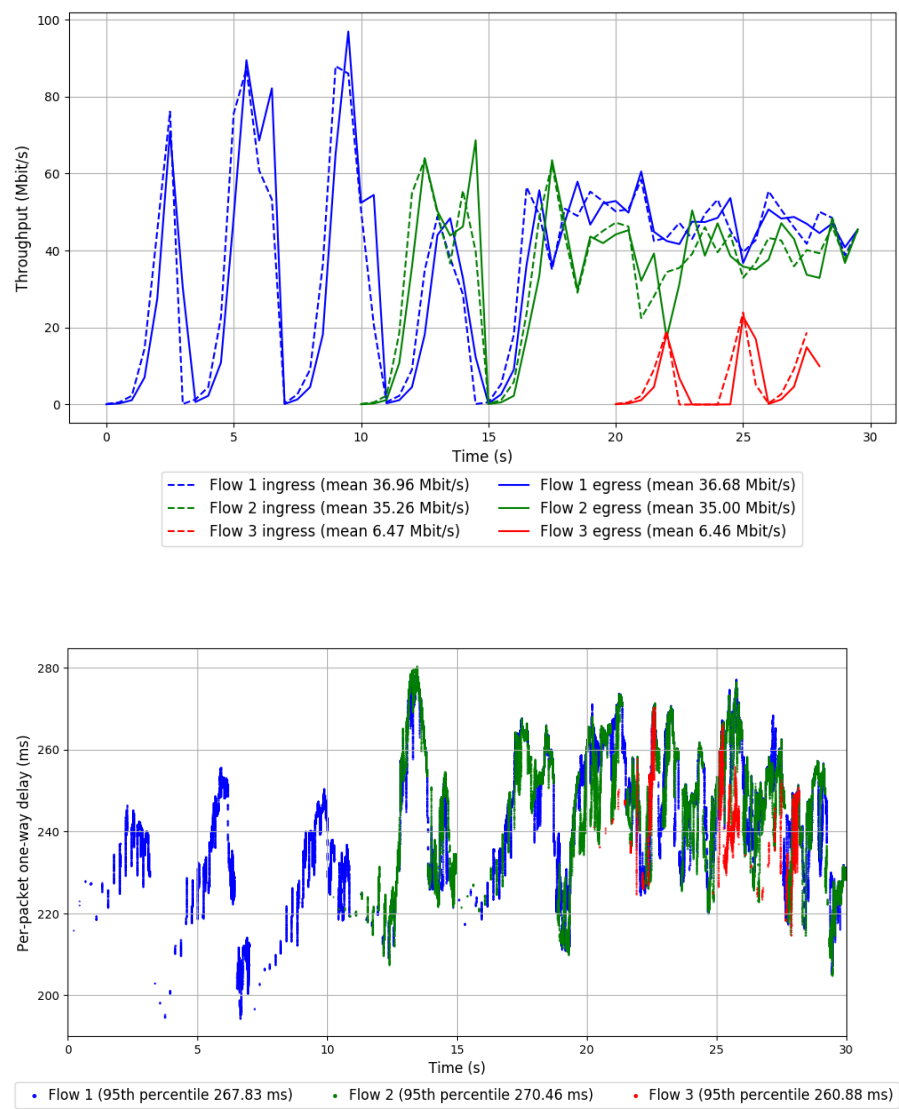
-- Flow 3:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 260.875 ms

Loss rate: 0.05%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-04 20:28:40

End at: 2018-02-04 20:29:10

Local clock offset: 0.359 ms

Remote clock offset: 5.174 ms

Below is generated by plot.py at 2018-02-05 03:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 244.372 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 43.90 Mbit/s

95th percentile per-packet one-way delay: 239.697 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 28.03 Mbit/s

95th percentile per-packet one-way delay: 251.160 ms

Loss rate: 1.69%

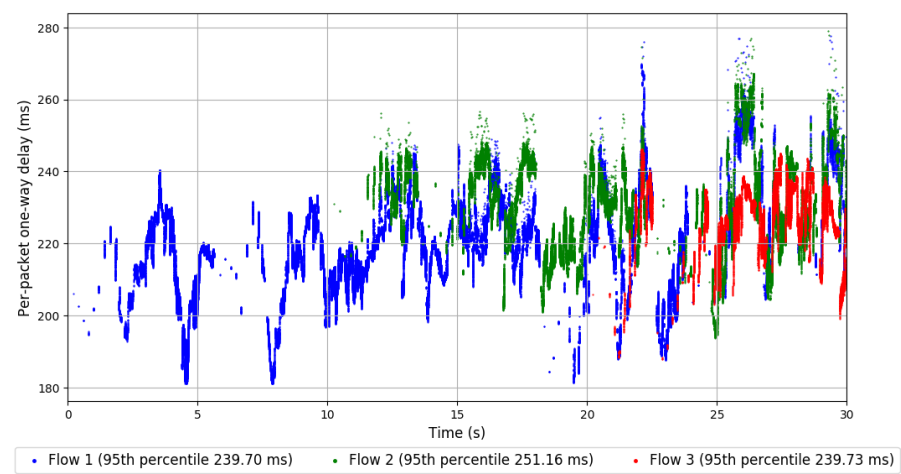
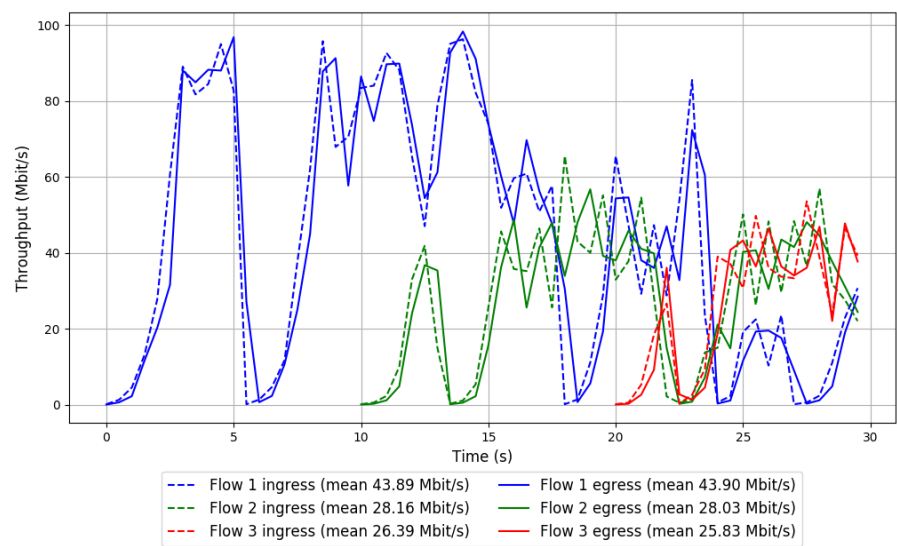
-- Flow 3:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 239.726 ms

Loss rate: 4.15%

Run 6: Report of Verus — Data Link

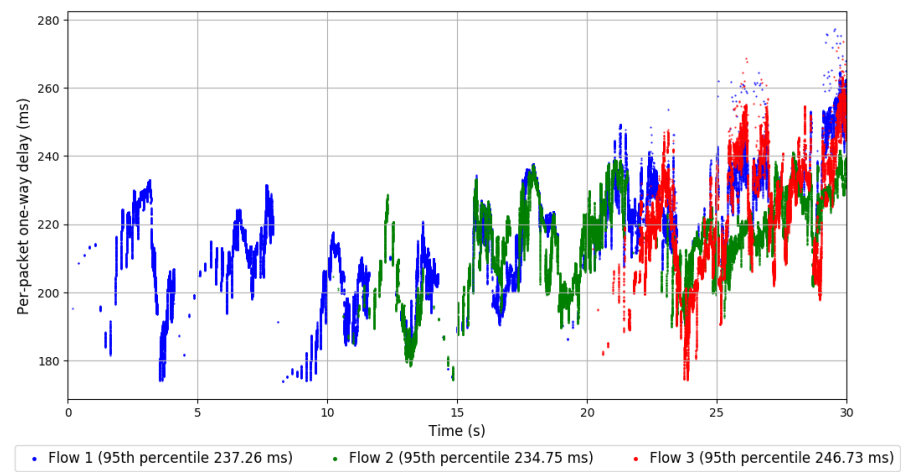
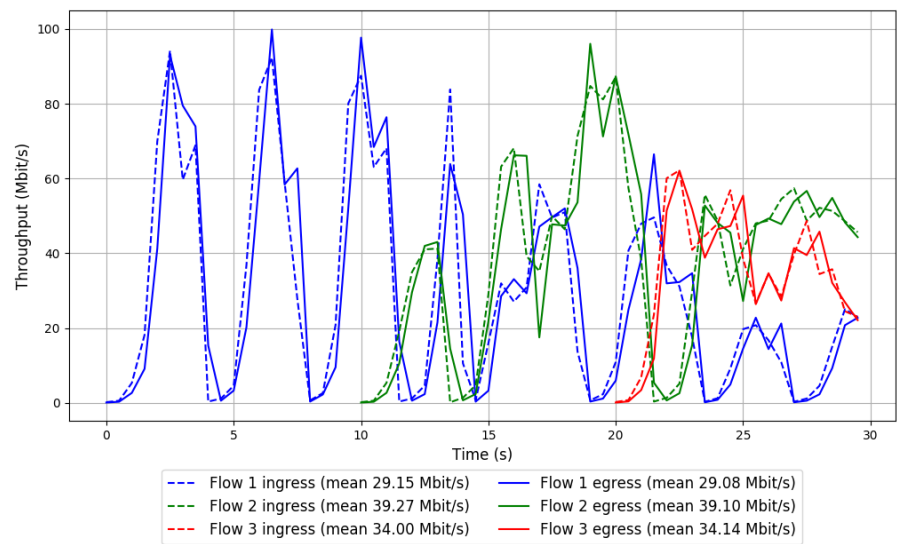


Run 7: Statistics of Verus

Start at: 2018-02-04 21:00:16
End at: 2018-02-04 21:00:46
Local clock offset: 4.126 ms
Remote clock offset: 15.826 ms

Below is generated by plot.py at 2018-02-05 03:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.18 Mbit/s
95th percentile per-packet one-way delay: 237.749 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 29.08 Mbit/s
95th percentile per-packet one-way delay: 237.261 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 234.751 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 34.14 Mbit/s
95th percentile per-packet one-way delay: 246.728 ms
Loss rate: 1.91%

Run 7: Report of Verus — Data Link

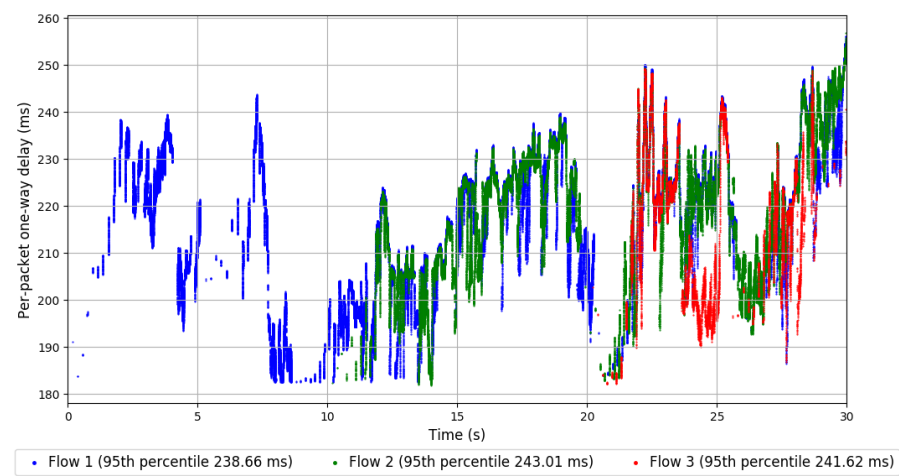
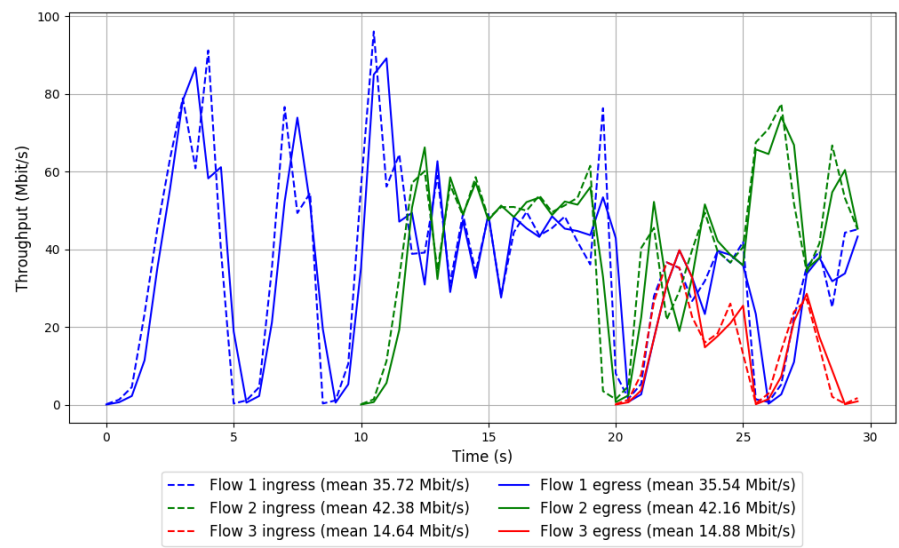


Run 8: Statistics of Verus

Start at: 2018-02-04 21:31:14
End at: 2018-02-04 21:31:44
Local clock offset: 0.284 ms
Remote clock offset: 4.657 ms

Below is generated by plot.py at 2018-02-05 03:11:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.41 Mbit/s
95th percentile per-packet one-way delay: 240.618 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 238.659 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 42.16 Mbit/s
95th percentile per-packet one-way delay: 243.013 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 241.615 ms
Loss rate: 0.36%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-04 22:00:33

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

Local clock offset: 4.517 ms

Remote clock offset: 4.265 ms

Below is generated by plot.py at 2018-02-05 03:11:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 233.159 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 232.666 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 231.383 ms

Loss rate: 1.32%

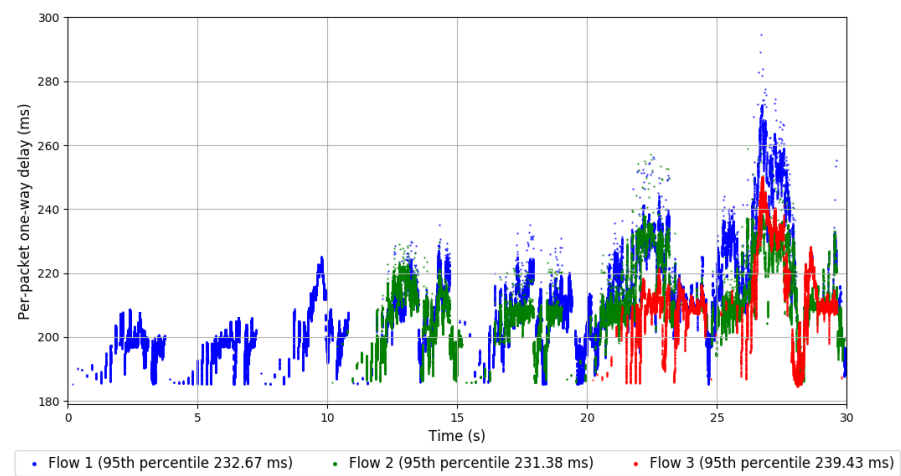
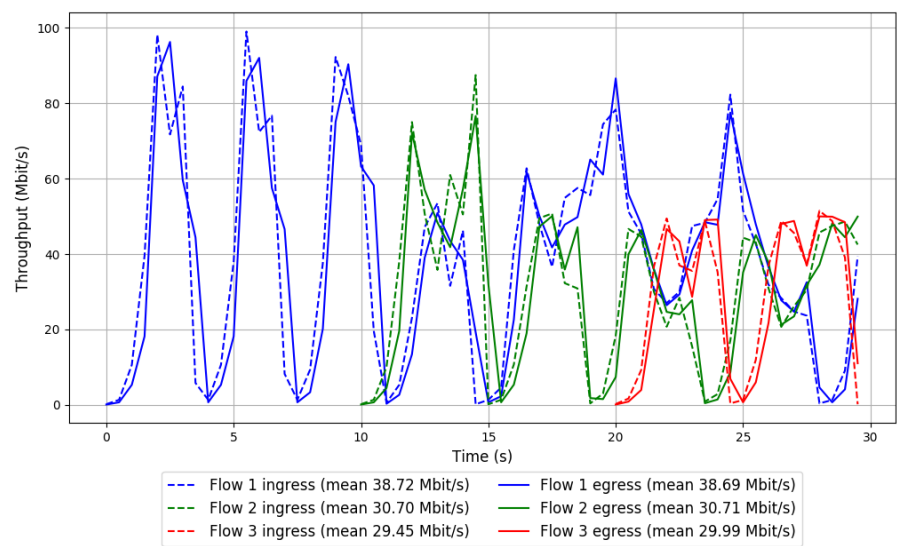
-- Flow 3:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 239.431 ms

Loss rate: 0.02%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-04 22:26:02

End at: 2018-02-04 22:26:32

Local clock offset: 4.469 ms

Remote clock offset: 2.445 ms

Below is generated by plot.py at 2018-02-05 03:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.73 Mbit/s

95th percentile per-packet one-way delay: 237.121 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 237.148 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 240.064 ms

Loss rate: 1.49%

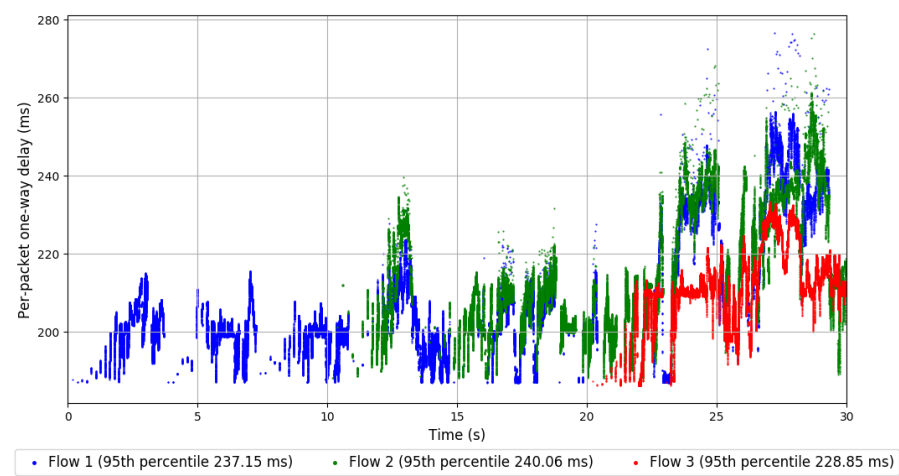
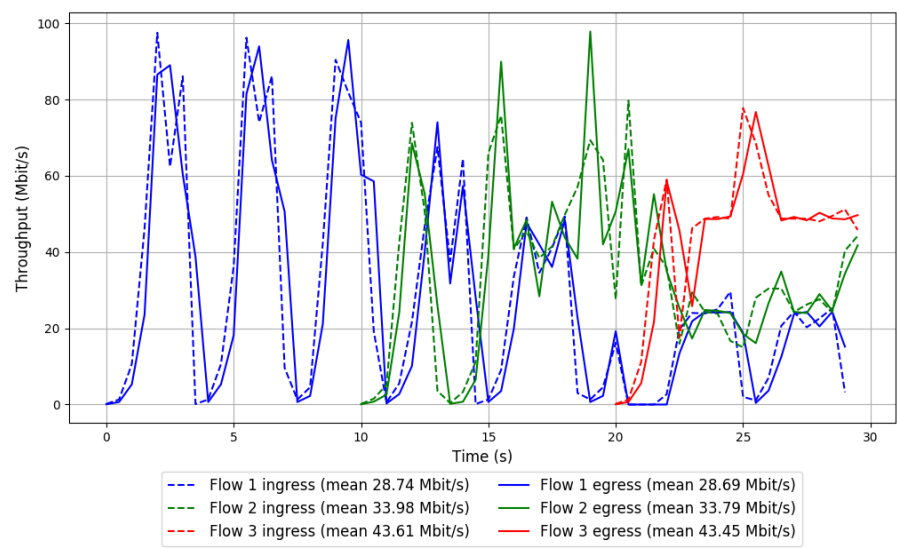
-- Flow 3:

Average throughput: 43.45 Mbit/s

95th percentile per-packet one-way delay: 228.849 ms

Loss rate: 2.25%

Run 10: Report of Verus — Data Link

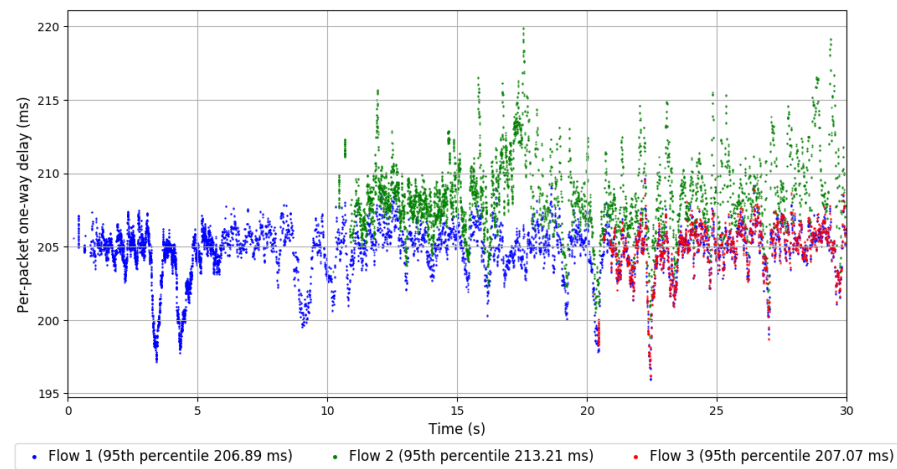
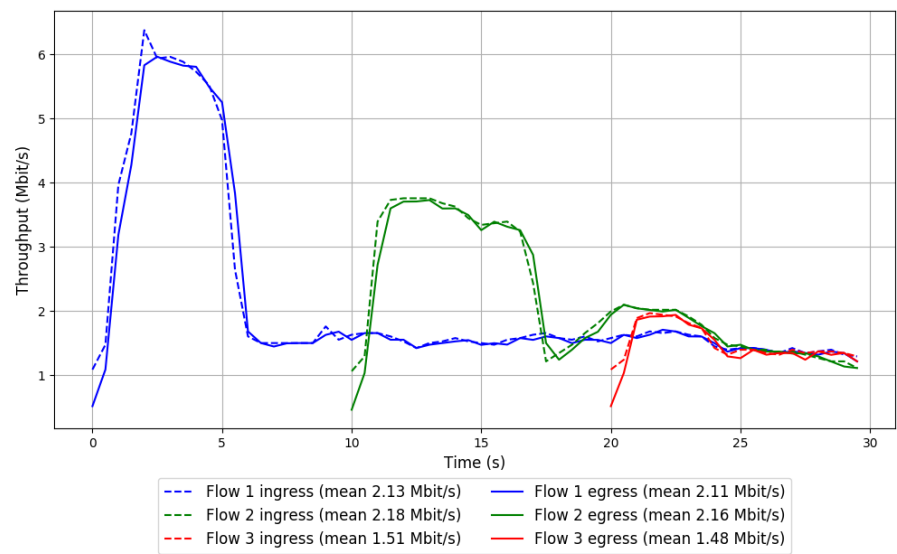


Run 1: Statistics of Copa

Start at: 2018-02-04 17:35:45
End at: 2018-02-04 17:36:15
Local clock offset: 3.01 ms
Remote clock offset: 31.637 ms

Below is generated by plot.py at 2018-02-05 03:11:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 211.100 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 206.893 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 213.208 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 207.068 ms
Loss rate: 4.01%

Run 1: Report of Copa — Data Link

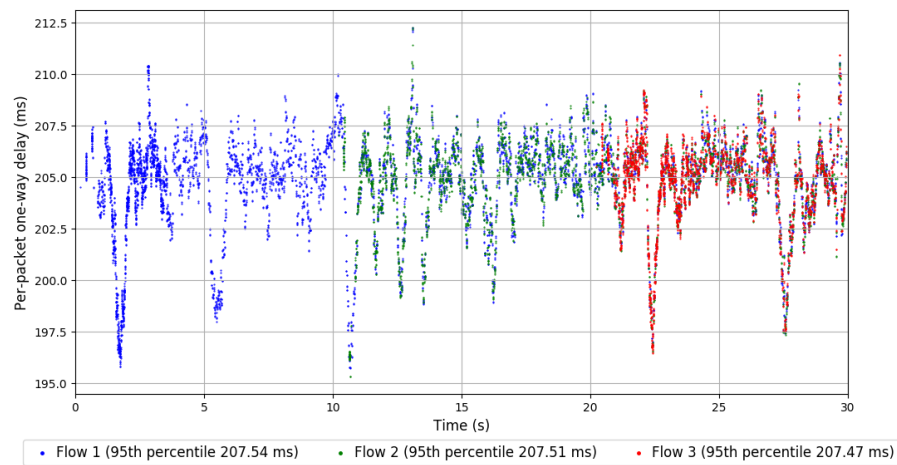
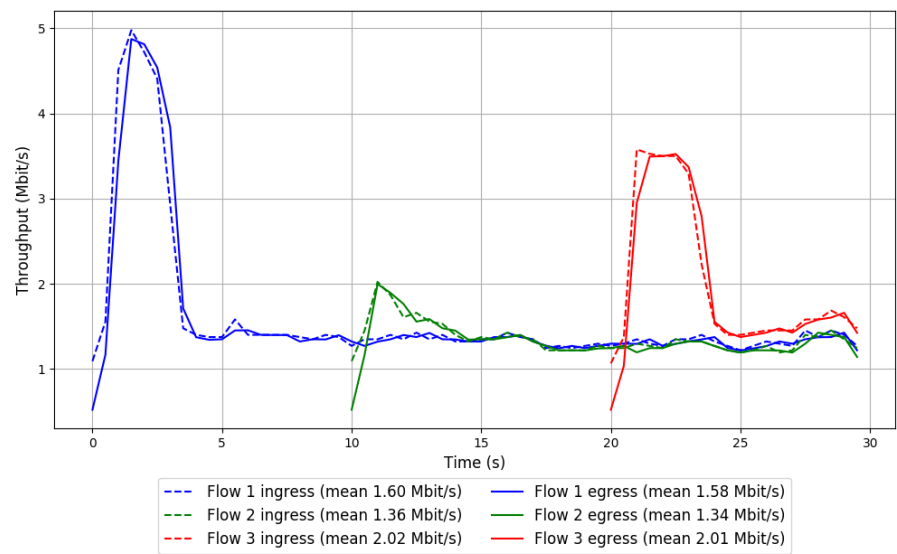


Run 2: Statistics of Copa

Start at: 2018-02-04 18:20:47
End at: 2018-02-04 18:21:17
Local clock offset: 3.46 ms
Remote clock offset: 23.803 ms

Below is generated by plot.py at 2018-02-05 03:11:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 207.509 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 207.542 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 207.511 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 207.471 ms
Loss rate: 2.60%

Run 2: Report of Copa — Data Link

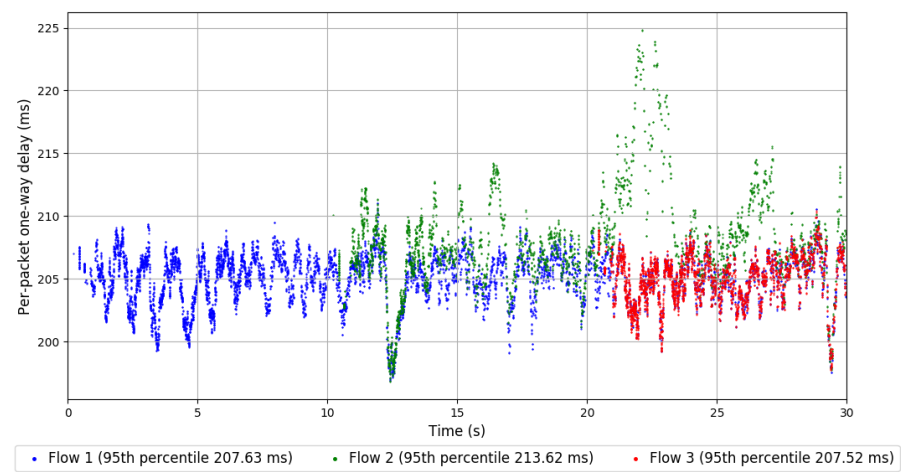
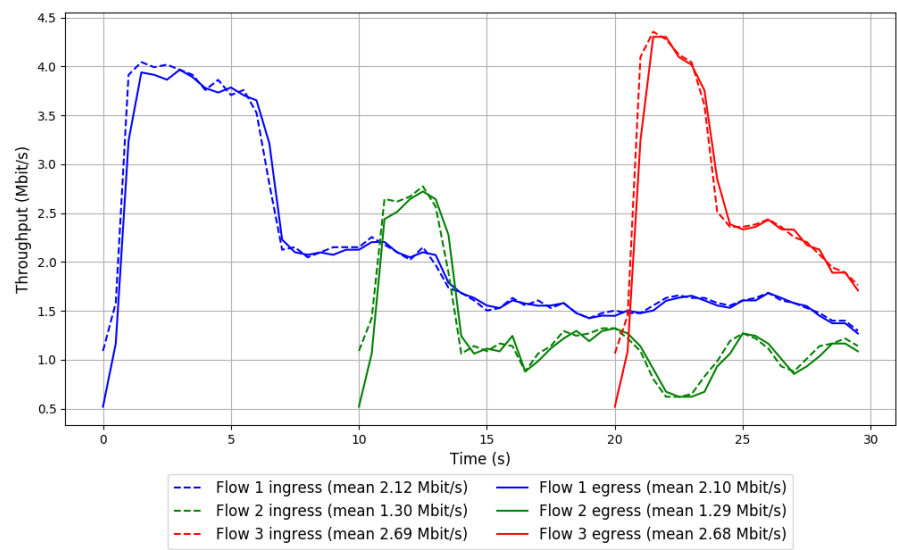


Run 3: Statistics of Copa

Start at: 2018-02-04 19:01:19
End at: 2018-02-04 19:01:49
Local clock offset: 1.356 ms
Remote clock offset: 20.493 ms

Below is generated by plot.py at 2018-02-05 03:11:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 209.337 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 207.632 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 213.624 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 207.518 ms
Loss rate: 2.65%

Run 3: Report of Copa — Data Link

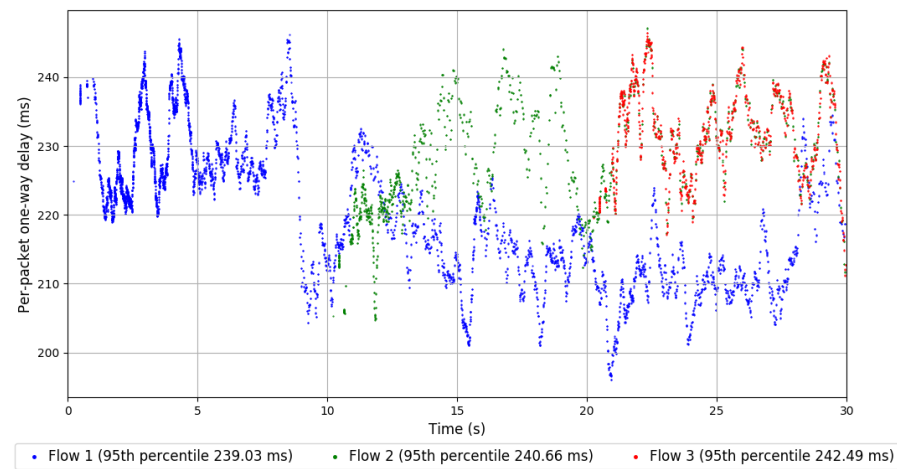
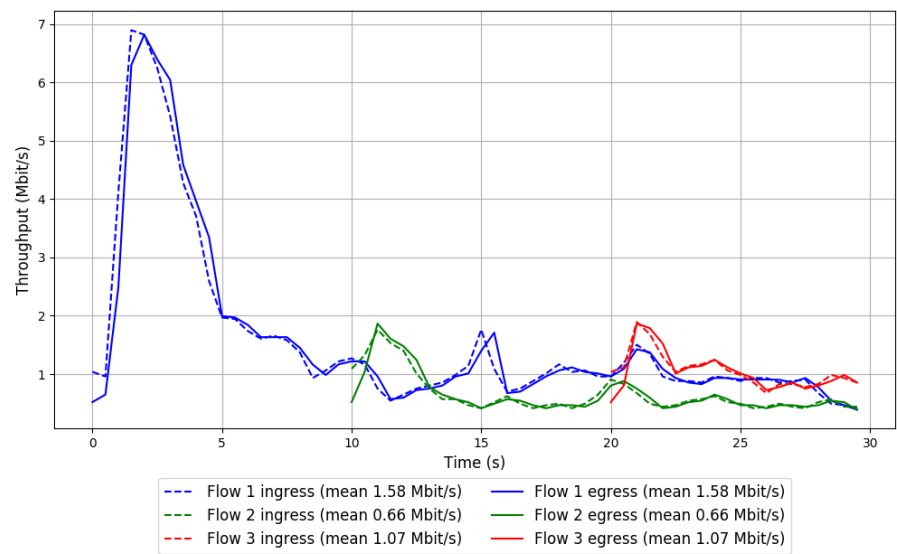


Run 4: Statistics of Copa

Start at: 2018-02-04 19:39:14
End at: 2018-02-04 19:39:44
Local clock offset: 3.4 ms
Remote clock offset: 19.557 ms

Below is generated by plot.py at 2018-02-05 03:11:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 239.948 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 239.030 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 240.662 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 242.492 ms
Loss rate: 2.47%

Run 4: Report of Copa — Data Link

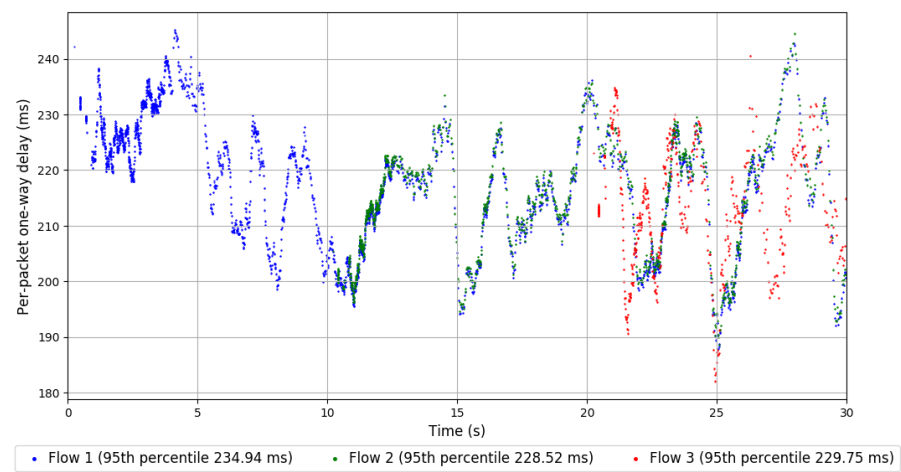
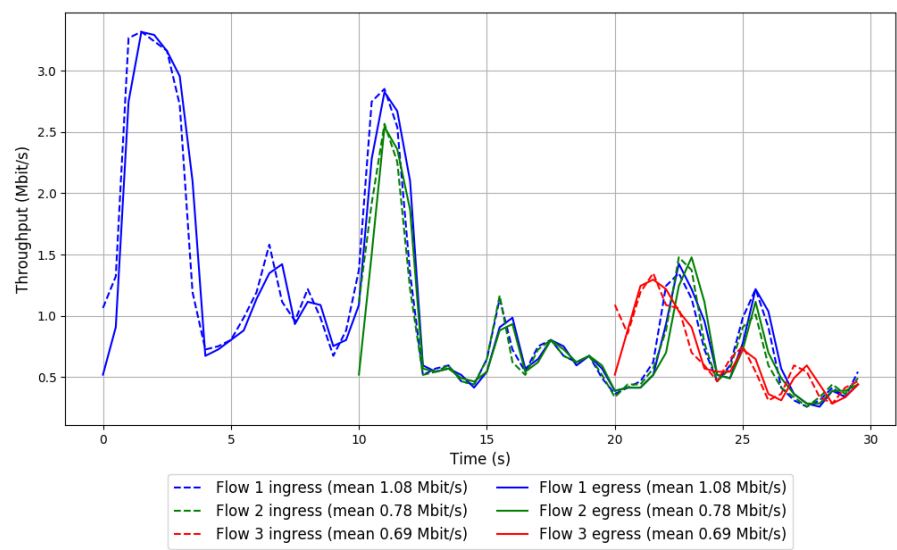


Run 5: Statistics of Copa

Start at: 2018-02-04 20:08:09
End at: 2018-02-04 20:08:39
Local clock offset: 0.007 ms
Remote clock offset: 4.289 ms

```
# Below is generated by plot.py at 2018-02-05 03:11:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 233.772 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 234.945 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 228.518 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 229.751 ms
Loss rate: 1.90%
```

Run 5: Report of Copa — Data Link

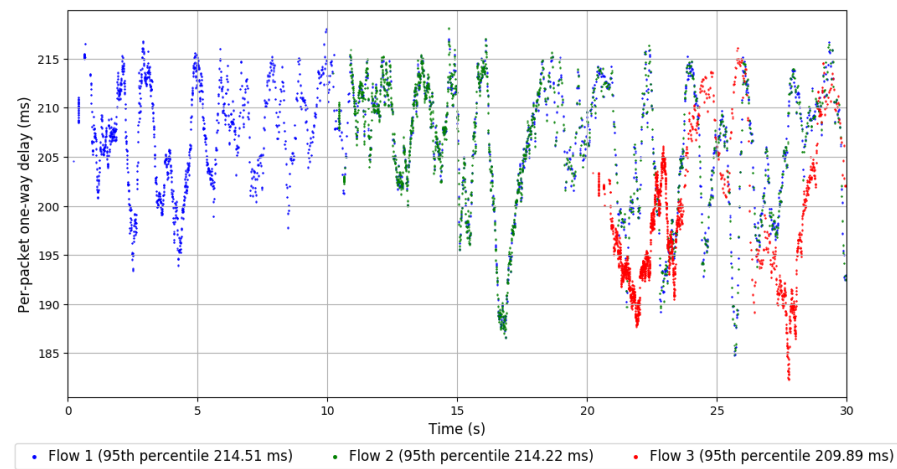
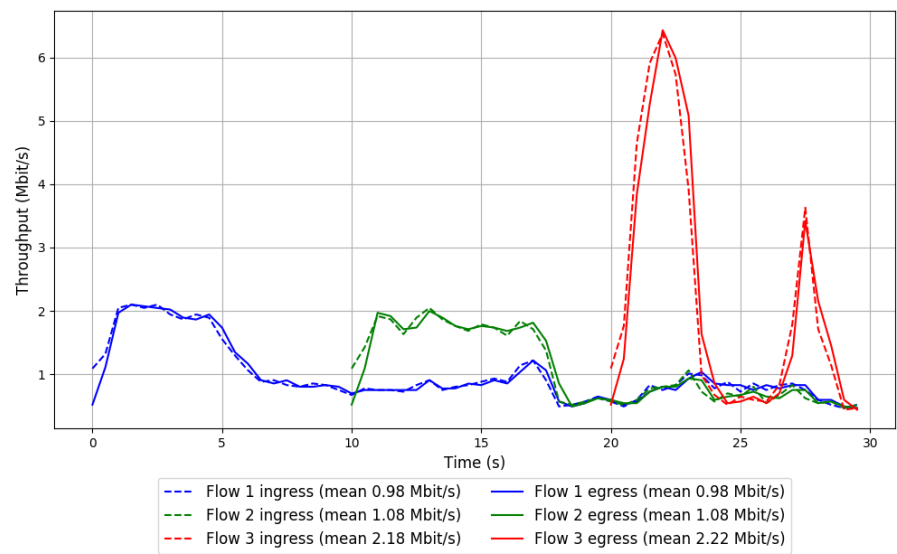


Run 6: Statistics of Copa

Start at: 2018-02-04 20:39:13
End at: 2018-02-04 20:39:43
Local clock offset: 4.045 ms
Remote clock offset: 15.833 ms

```
# Below is generated by plot.py at 2018-02-05 03:11:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 214.041 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 214.507 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 214.220 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 209.889 ms
Loss rate: 0.48%
```

Run 6: Report of Copa — Data Link

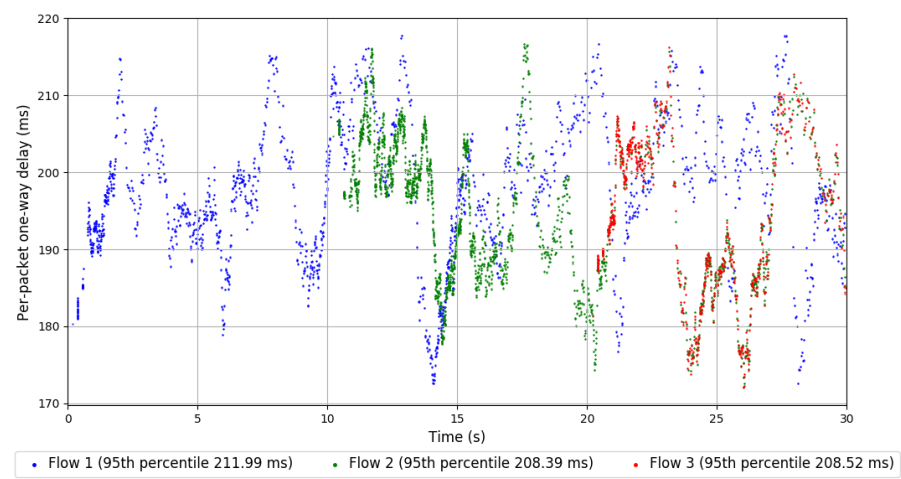
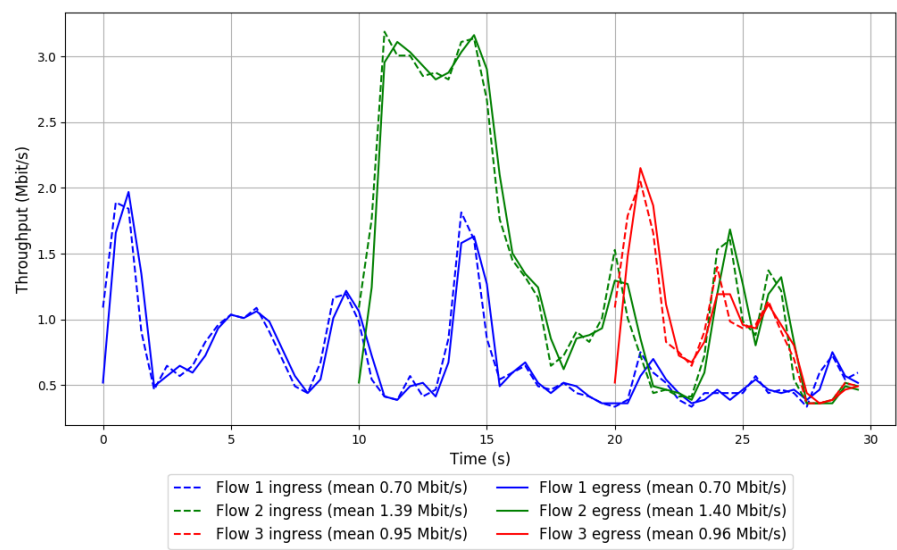


Run 7: Statistics of Copa

Start at: 2018-02-04 21:11:01
End at: 2018-02-04 21:11:31
Local clock offset: 1.737 ms
Remote clock offset: 14.96 ms

Below is generated by plot.py at 2018-02-05 03:11:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 209.790 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 211.991 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 208.386 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 208.522 ms
Loss rate: 1.10%

Run 7: Report of Copa — Data Link

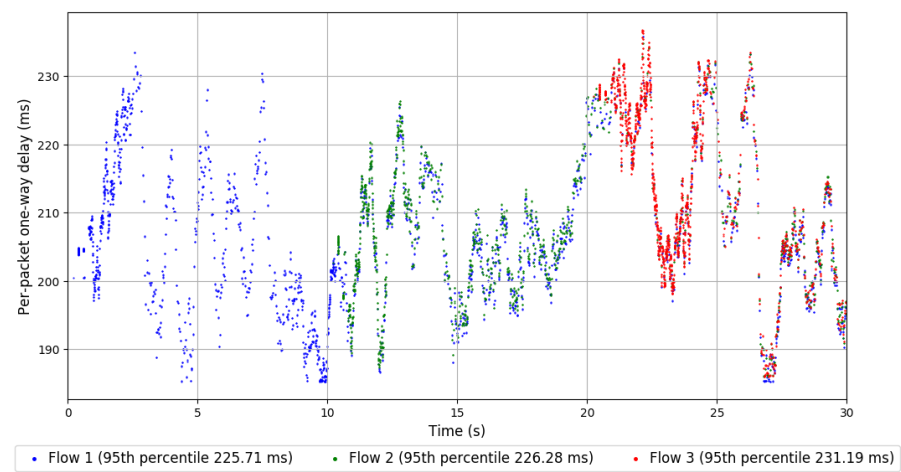
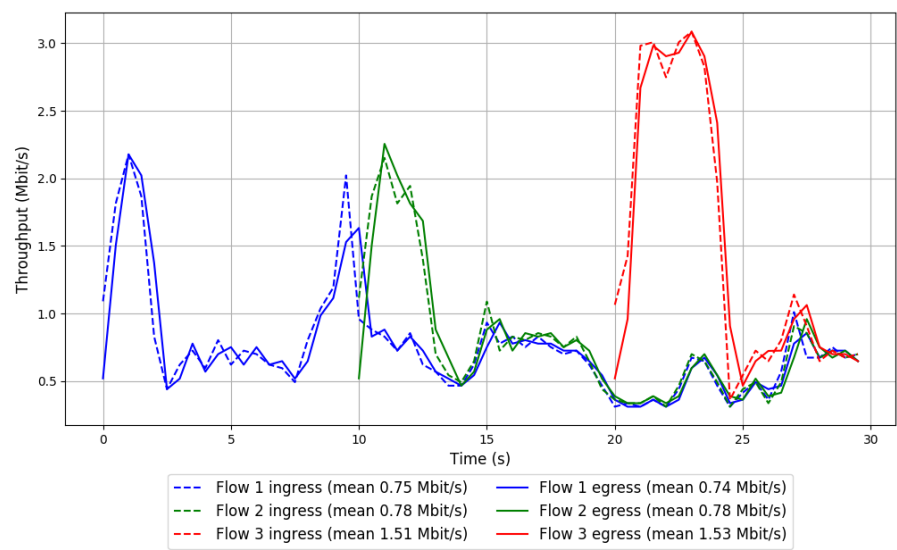


Run 8: Statistics of Copa

Start at: 2018-02-04 21:41:00
End at: 2018-02-04 21:41:30
Local clock offset: 2.224 ms
Remote clock offset: 2.761 ms

Below is generated by plot.py at 2018-02-05 03:11:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 228.641 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 225.705 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 226.281 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 231.193 ms
Loss rate: 1.13%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-04 22:08:33

End at: 2018-02-04 22:09:03

Local clock offset: 2.828 ms

Remote clock offset: 4.242 ms

Below is generated by plot.py at 2018-02-05 03:11:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 201.333 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 197.295 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 208.342 ms

Loss rate: 0.28%

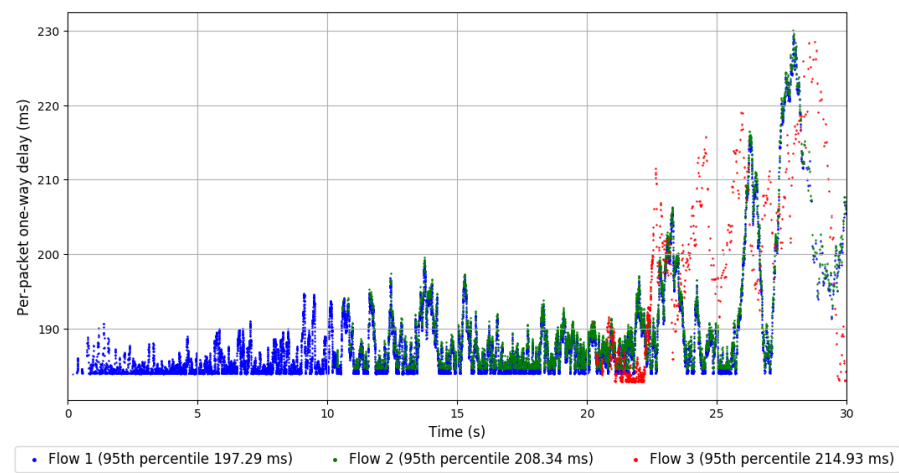
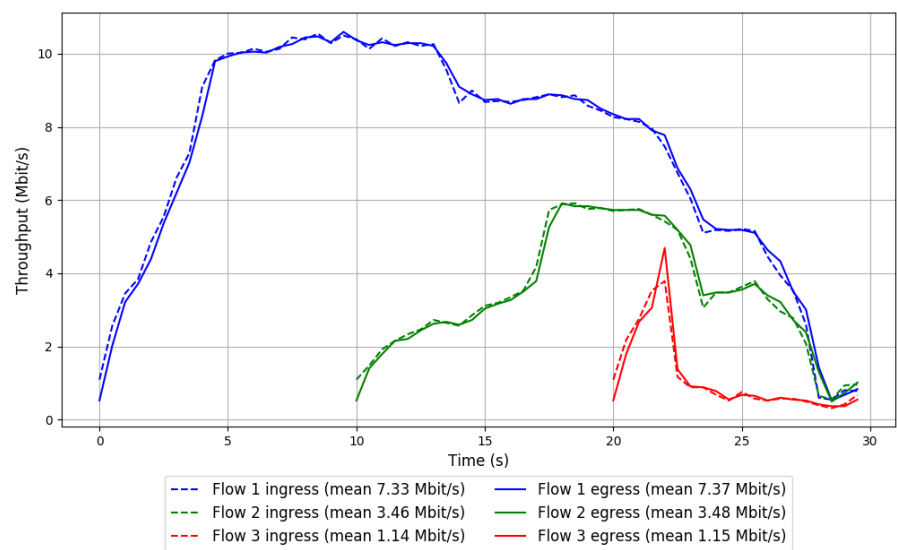
-- Flow 3:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 214.933 ms

Loss rate: 1.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-04 22:33:53

End at: 2018-02-04 22:34:23

Local clock offset: 2.749 ms

Remote clock offset: 6.998 ms

Below is generated by plot.py at 2018-02-05 03:11:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.74 Mbit/s

95th percentile per-packet one-way delay: 190.183 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 190.778 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 190.122 ms

Loss rate: 1.36%

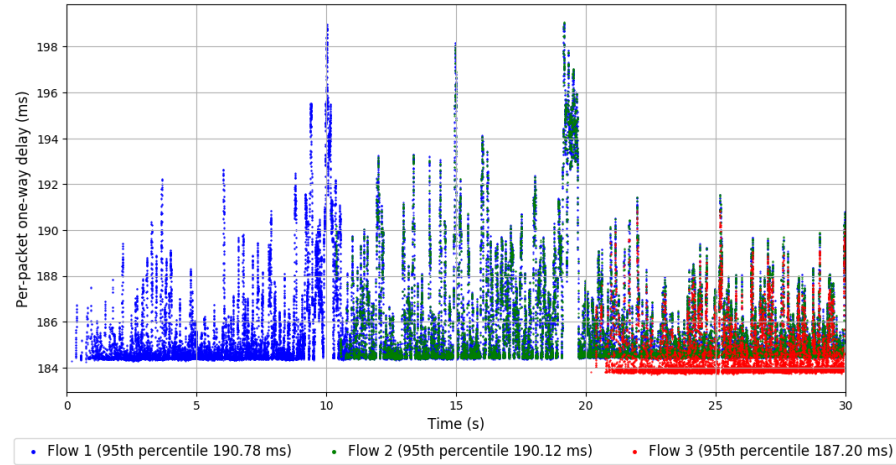
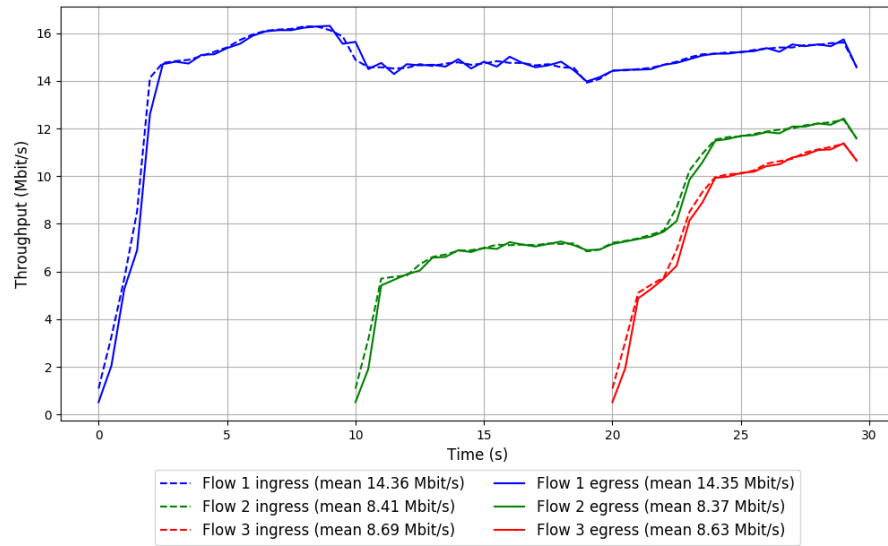
-- Flow 3:

Average throughput: 8.63 Mbit/s

95th percentile per-packet one-way delay: 187.203 ms

Loss rate: 2.43%

Run 10: Report of Copa — Data Link

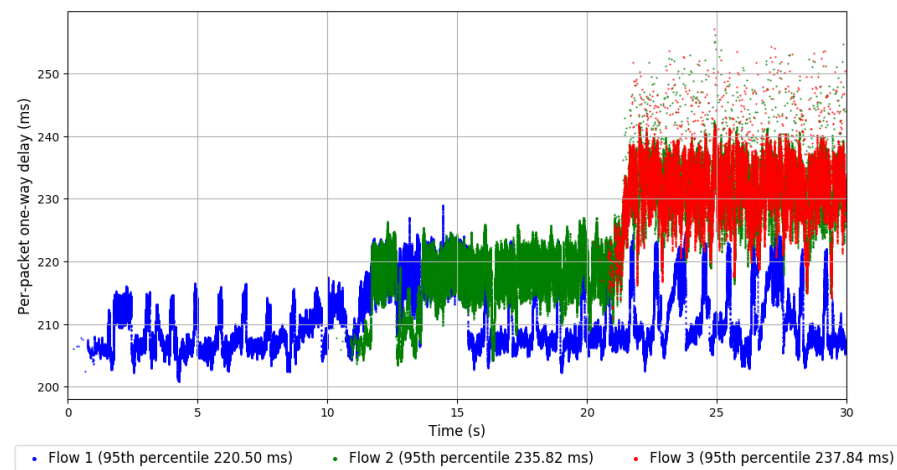
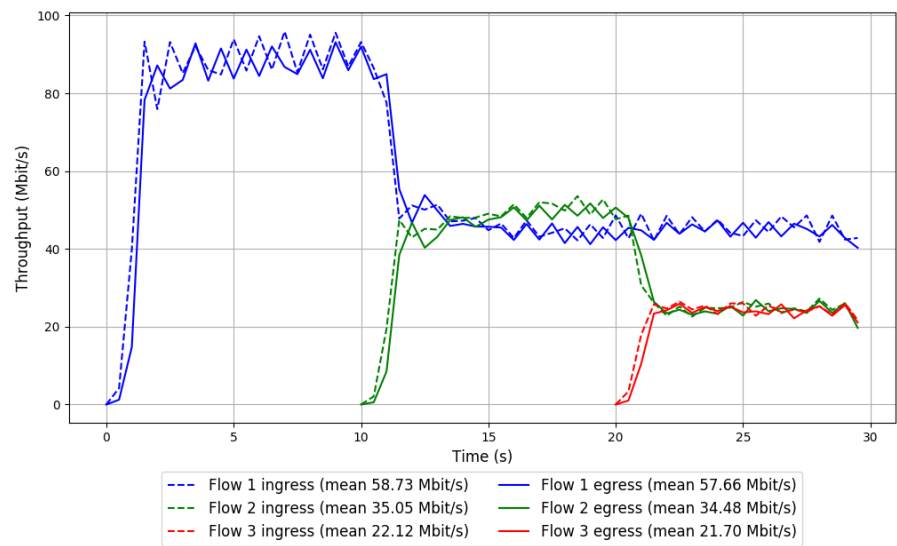


Run 1: Statistics of FillP

Start at: 2018-02-04 18:02:05
End at: 2018-02-04 18:02:35
Local clock offset: 3.035 ms
Remote clock offset: 27.197 ms

Below is generated by plot.py at 2018-02-05 03:13:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 233.849 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 57.66 Mbit/s
95th percentile per-packet one-way delay: 220.495 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 235.819 ms
Loss rate: 2.76%
-- Flow 3:
Average throughput: 21.70 Mbit/s
95th percentile per-packet one-way delay: 237.844 ms
Loss rate: 4.35%

Run 1: Report of FillP — Data Link

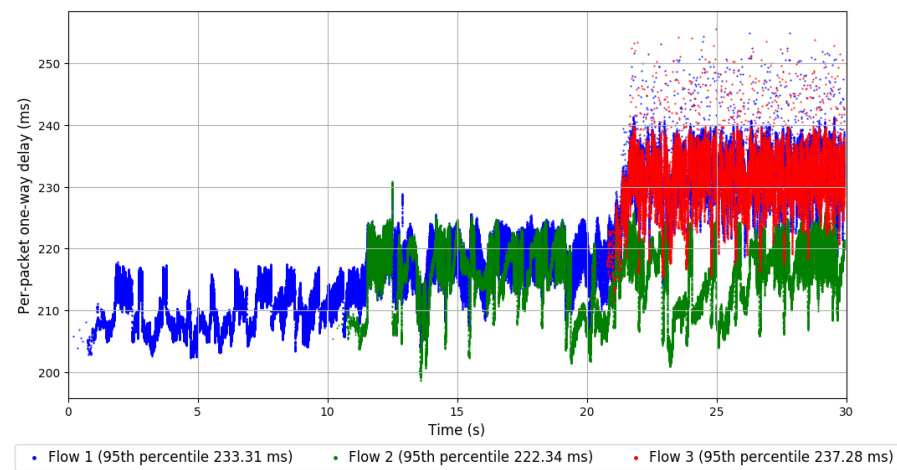
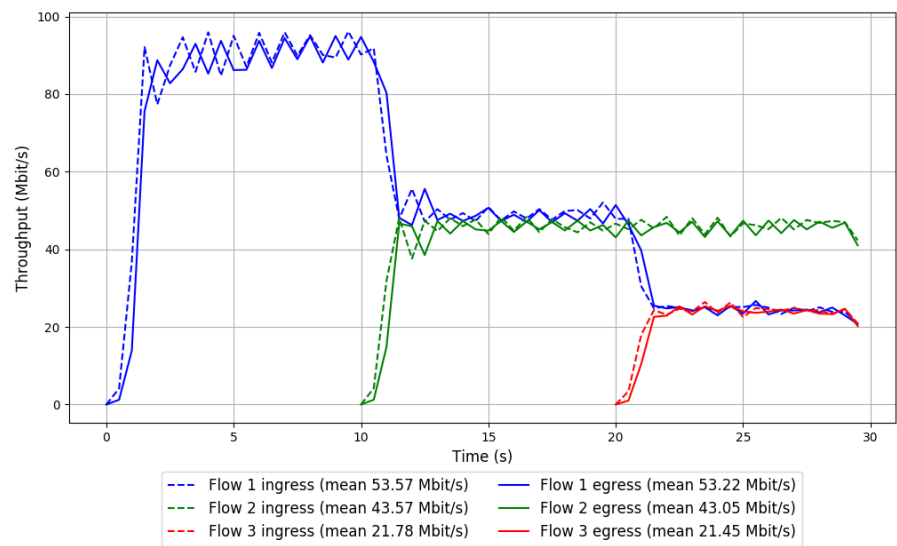


Run 2: Statistics of FillP

Start at: 2018-02-04 18:44:39
End at: 2018-02-04 18:45:09
Local clock offset: 4.85 ms
Remote clock offset: 20.543 ms

Below is generated by plot.py at 2018-02-05 03:13:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.77 Mbit/s
95th percentile per-packet one-way delay: 233.654 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 53.22 Mbit/s
95th percentile per-packet one-way delay: 233.313 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 43.05 Mbit/s
95th percentile per-packet one-way delay: 222.345 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 21.45 Mbit/s
95th percentile per-packet one-way delay: 237.275 ms
Loss rate: 3.80%

Run 2: Report of FillP — Data Link

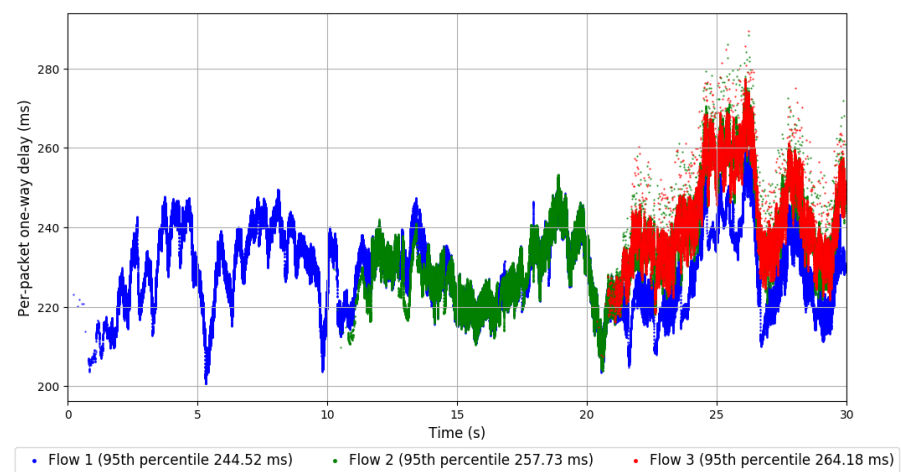
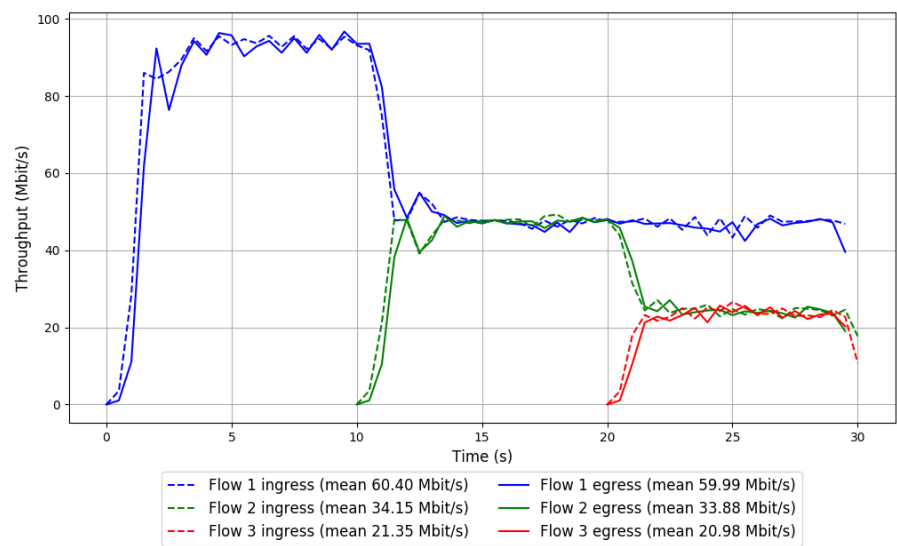


Run 3: Statistics of FillP

Start at: 2018-02-04 19:24:32
End at: 2018-02-04 19:25:02
Local clock offset: 0.269 ms
Remote clock offset: 20.624 ms

Below is generated by plot.py at 2018-02-05 03:13:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 250.914 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 59.99 Mbit/s
95th percentile per-packet one-way delay: 244.521 ms
Loss rate: 1.62%
-- Flow 2:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 257.729 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 20.98 Mbit/s
95th percentile per-packet one-way delay: 264.179 ms
Loss rate: 6.69%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-04 19:57:27

End at: 2018-02-04 19:57:57

Local clock offset: 3.255 ms

Remote clock offset: 7.407 ms

Below is generated by plot.py at 2018-02-05 03:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 260.834 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 53.38 Mbit/s

95th percentile per-packet one-way delay: 260.148 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 264.768 ms

Loss rate: 1.21%

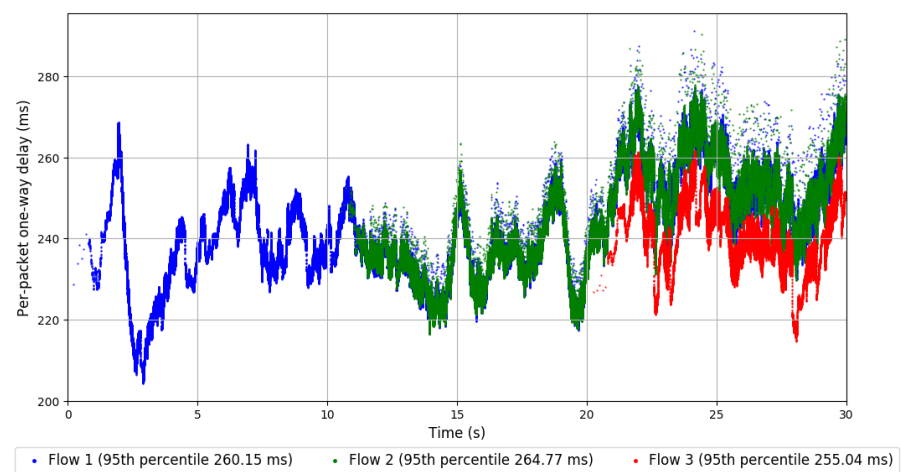
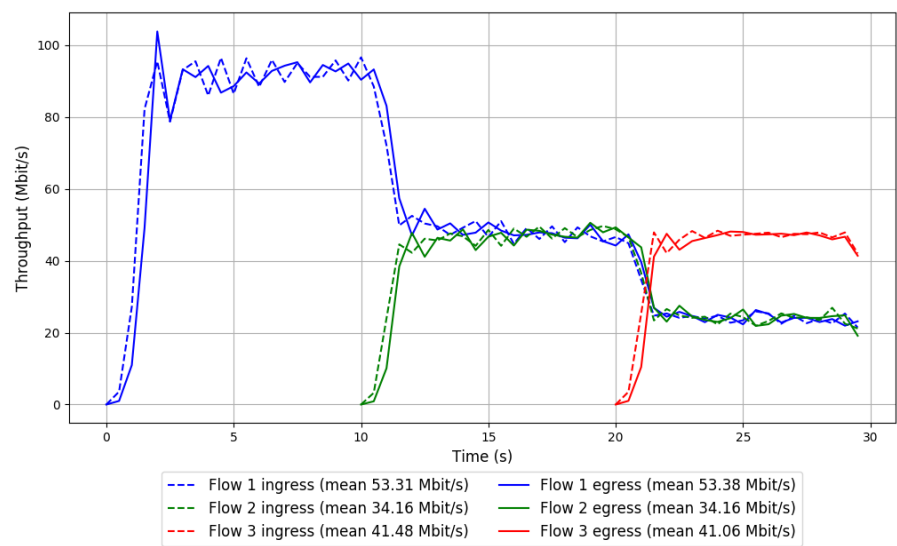
-- Flow 3:

Average throughput: 41.06 Mbit/s

95th percentile per-packet one-way delay: 255.044 ms

Loss rate: 3.23%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-04 20:26:27

End at: 2018-02-04 20:26:57

Local clock offset: 1.161 ms

Remote clock offset: 3.153 ms

Below is generated by plot.py at 2018-02-05 03:13:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 241.315 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 240.289 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 44.78 Mbit/s

95th percentile per-packet one-way delay: 236.348 ms

Loss rate: 1.28%

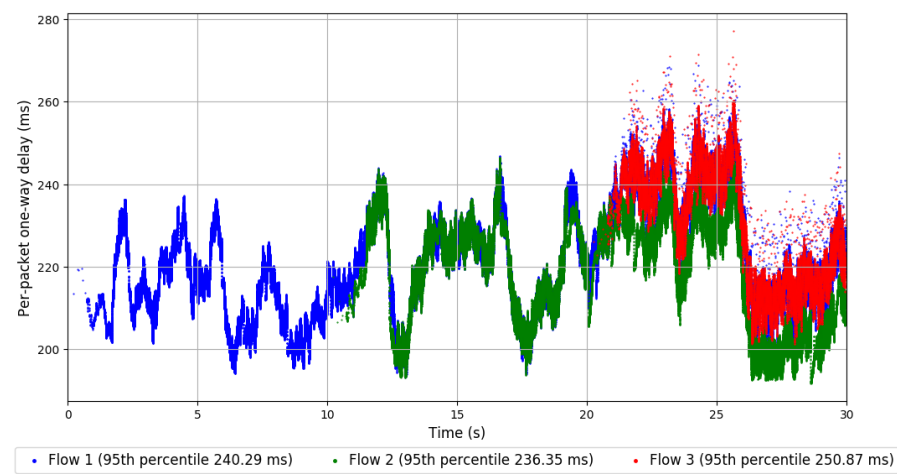
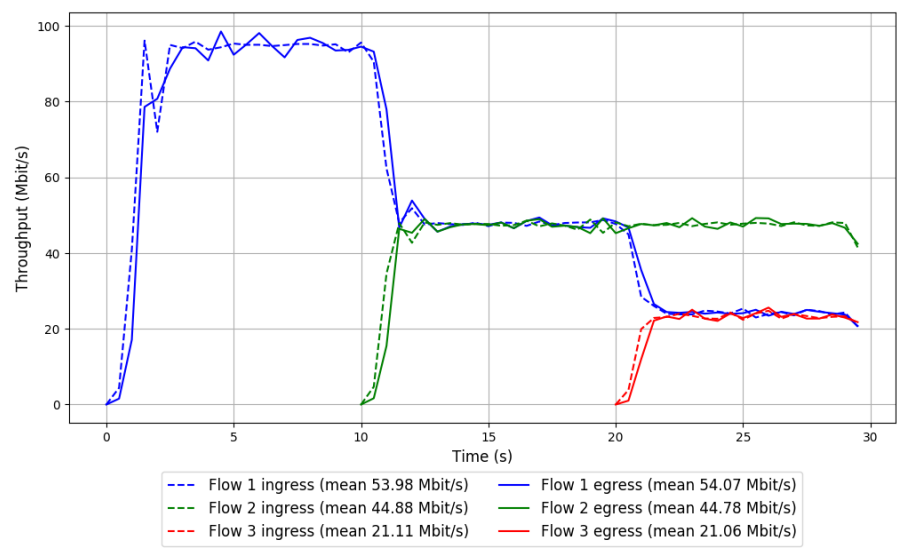
-- Flow 3:

Average throughput: 21.06 Mbit/s

95th percentile per-packet one-way delay: 250.870 ms

Loss rate: 2.51%

Run 5: Report of FillP — Data Link

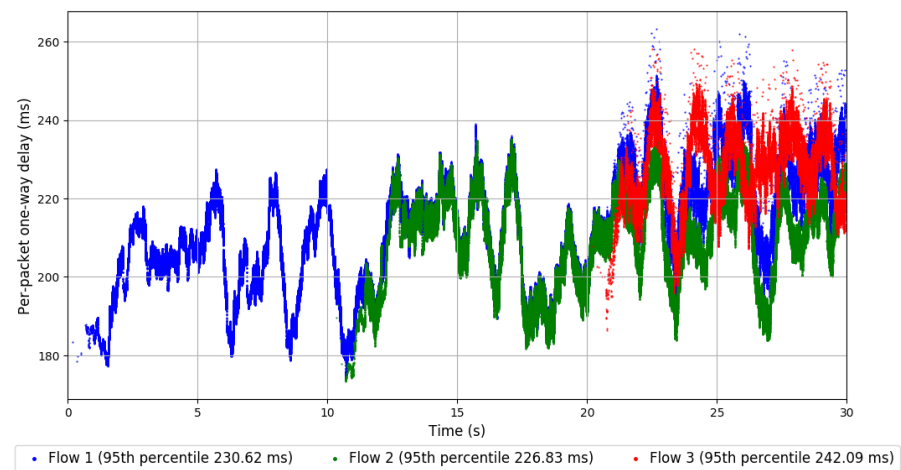
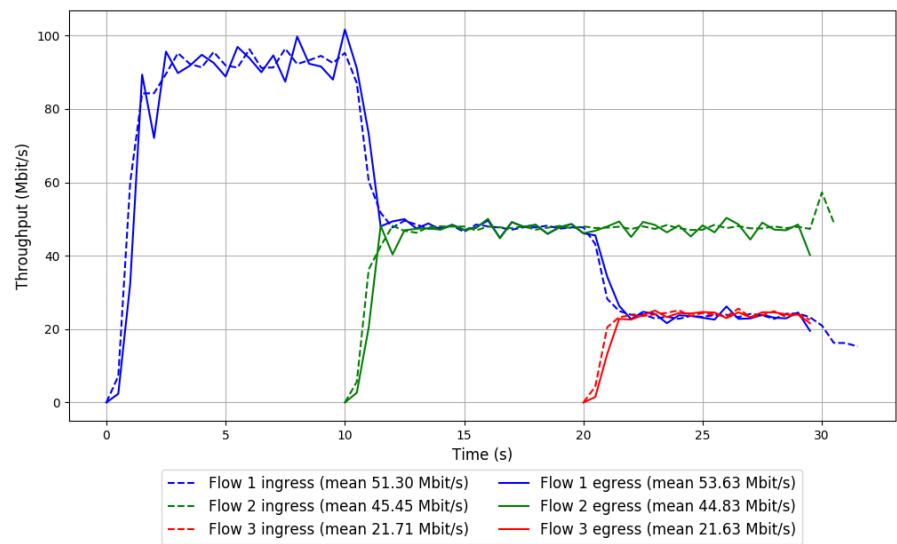


Run 6: Statistics of FillP

Start at: 2018-02-04 20:57:46
End at: 2018-02-04 20:58:16
Local clock offset: 4.958 ms
Remote clock offset: 16.338 ms

Below is generated by plot.py at 2018-02-05 03:13:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.40 Mbit/s
95th percentile per-packet one-way delay: 232.828 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 53.63 Mbit/s
95th percentile per-packet one-way delay: 230.624 ms
Loss rate: 2.74%
-- Flow 2:
Average throughput: 44.83 Mbit/s
95th percentile per-packet one-way delay: 226.829 ms
Loss rate: 7.18%
-- Flow 3:
Average throughput: 21.63 Mbit/s
95th percentile per-packet one-way delay: 242.086 ms
Loss rate: 2.84%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-04 21:28:56

End at: 2018-02-04 21:29:26

Local clock offset: -0.399 ms

Remote clock offset: -1.03 ms

Below is generated by plot.py at 2018-02-05 03:13:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 242.679 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 239.200 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 244.779 ms

Loss rate: 3.13%

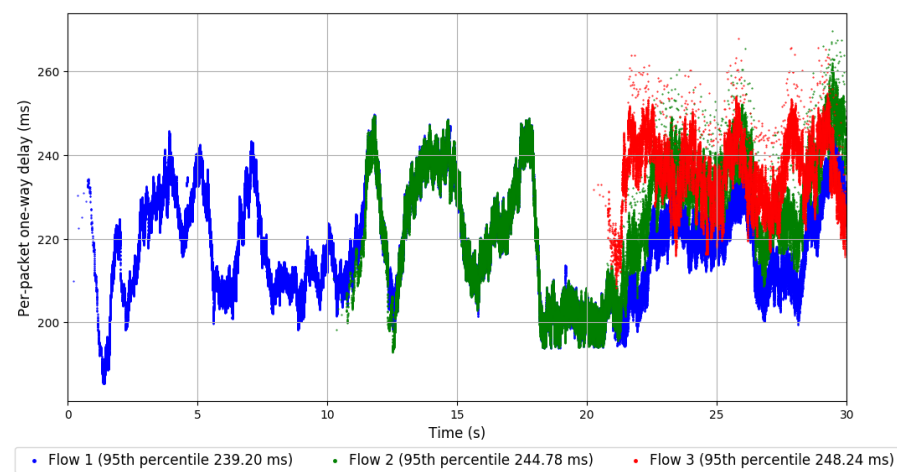
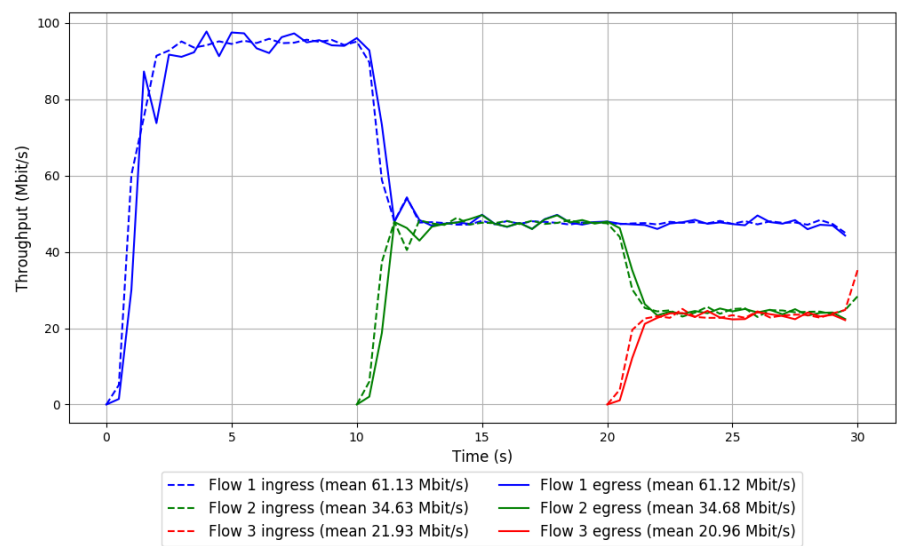
-- Flow 3:

Average throughput: 20.96 Mbit/s

95th percentile per-packet one-way delay: 248.238 ms

Loss rate: 10.83%

Run 7: Report of FillP — Data Link

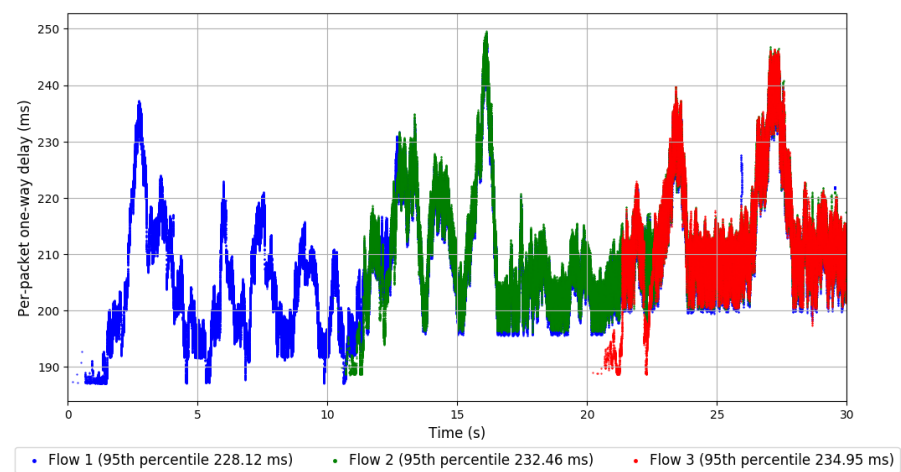
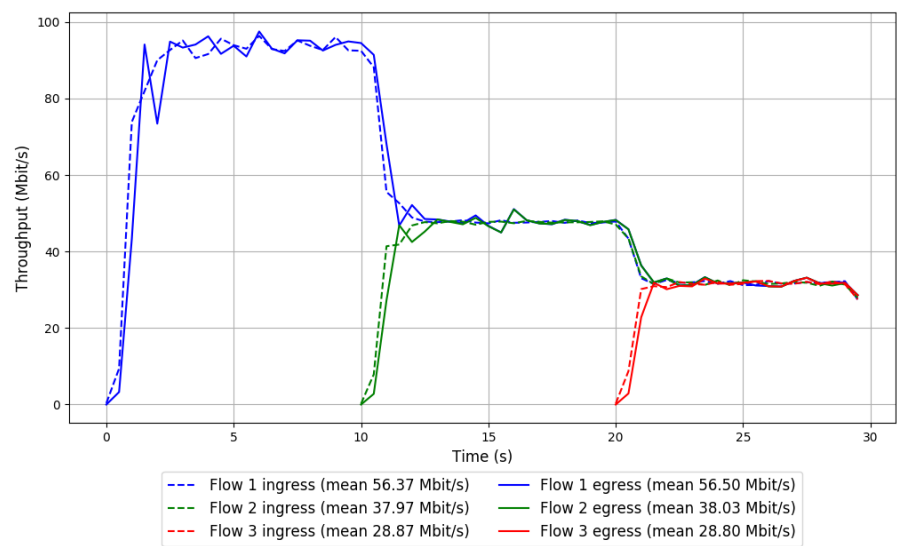


Run 8: Statistics of FillP

Start at: 2018-02-04 21:59:04
End at: 2018-02-04 21:59:34
Local clock offset: 4.037 ms
Remote clock offset: 2.238 ms

Below is generated by plot.py at 2018-02-05 03:14:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 230.565 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 228.116 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 232.458 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 234.949 ms
Loss rate: 2.16%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-04 22:24:36

End at: 2018-02-04 22:25:06

Local clock offset: 3.408 ms

Remote clock offset: 4.733 ms

Below is generated by plot.py at 2018-02-05 03:16:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 209.052 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 56.89 Mbit/s

95th percentile per-packet one-way delay: 208.329 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 37.97 Mbit/s

95th percentile per-packet one-way delay: 207.933 ms

Loss rate: 0.80%

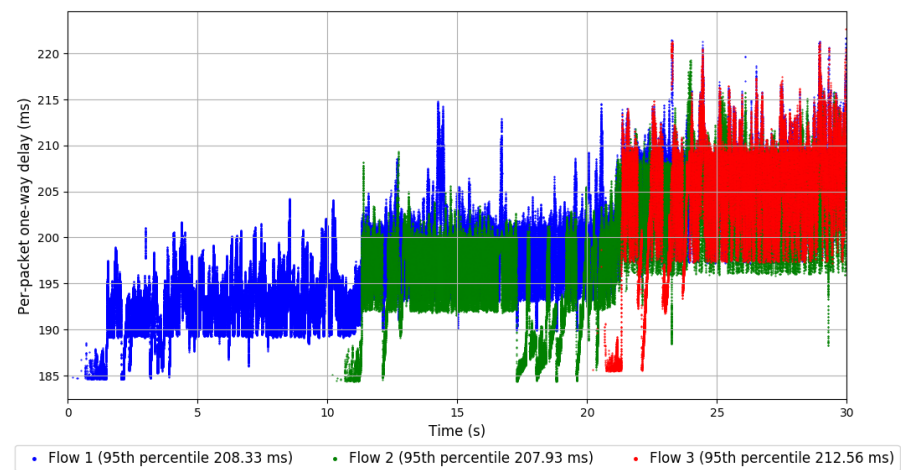
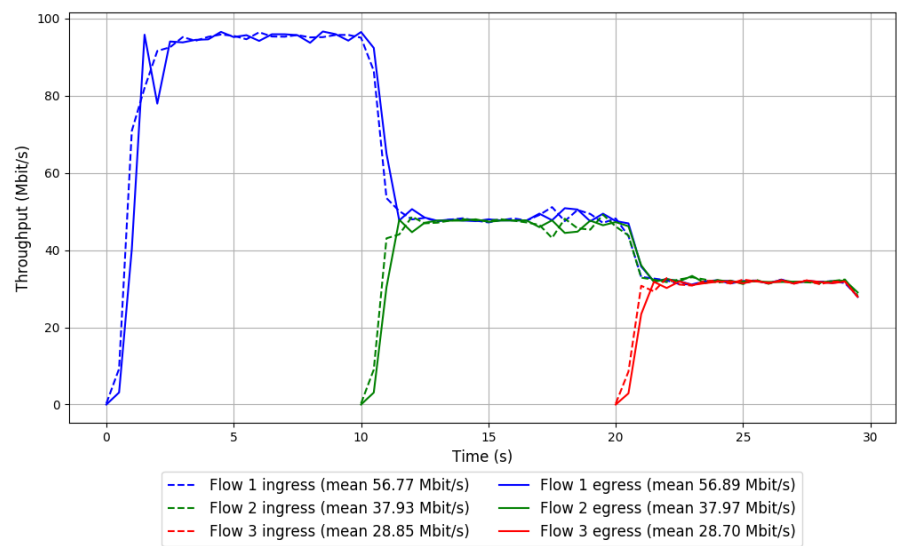
-- Flow 3:

Average throughput: 28.70 Mbit/s

95th percentile per-packet one-way delay: 212.556 ms

Loss rate: 2.30%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-04 22:49:37

End at: 2018-02-04 22:50:07

Local clock offset: 2.985 ms

Remote clock offset: 7.714 ms

Below is generated by plot.py at 2018-02-05 03:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 242.590 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 234.881 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 246.337 ms

Loss rate: 0.77%

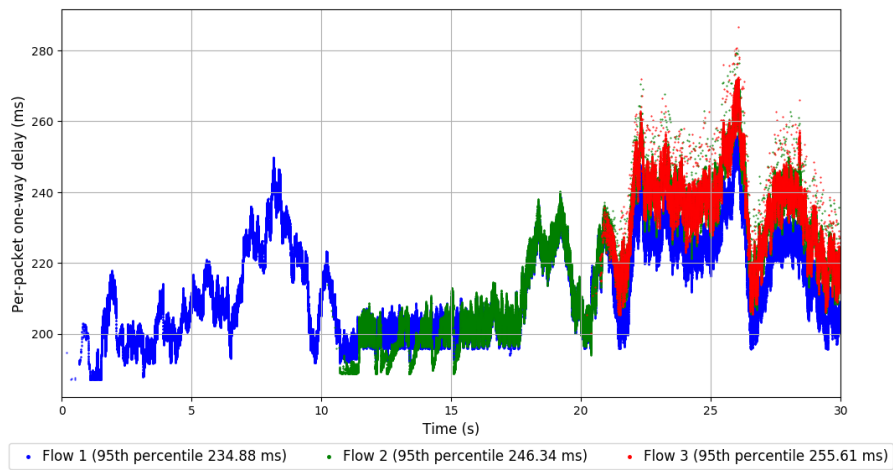
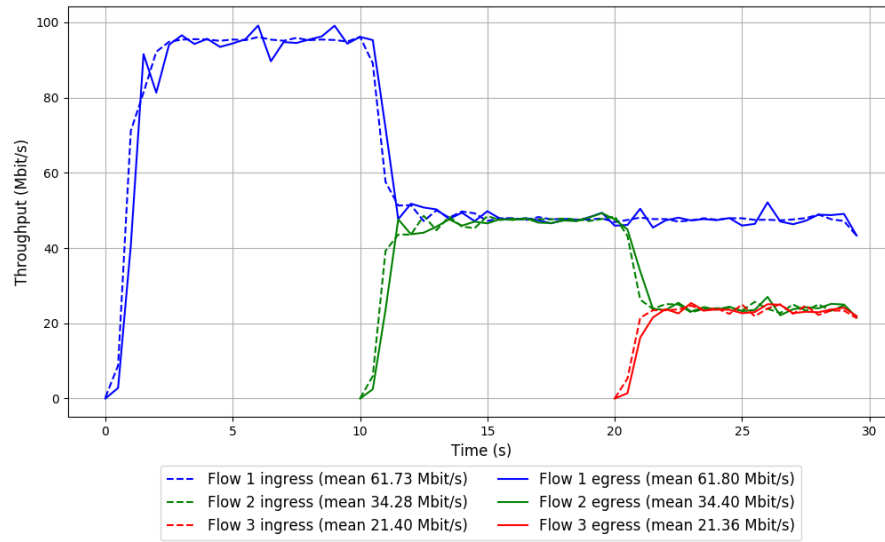
-- Flow 3:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 255.612 ms

Loss rate: 2.29%

Run 10: Report of FillP — Data Link

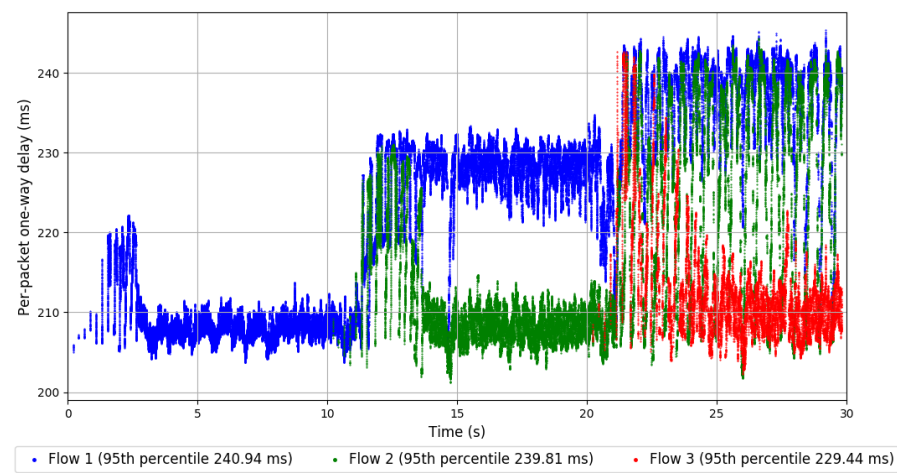
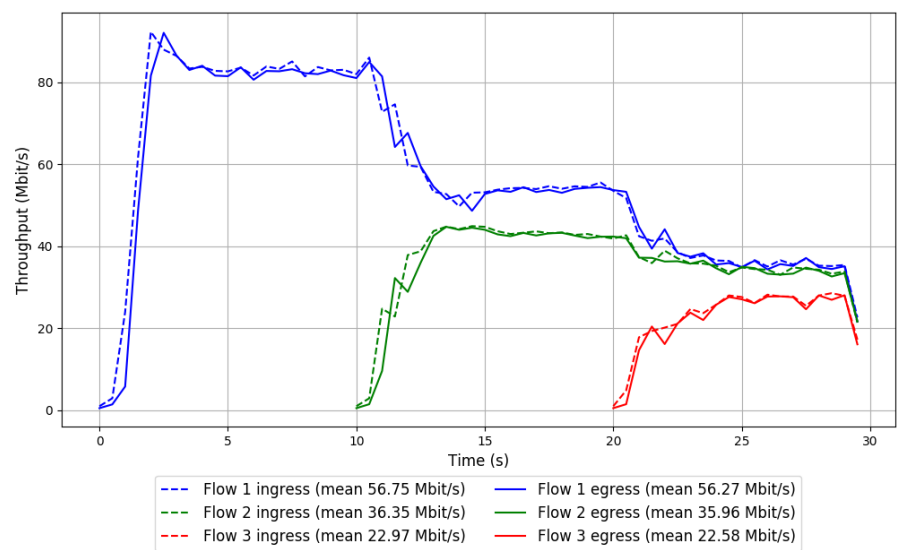


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-04 17:29:48
End at: 2018-02-04 17:30:18
Local clock offset: 3.697 ms
Remote clock offset: 37.819 ms

# Below is generated by plot.py at 2018-02-05 03:16:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.39 Mbit/s
95th percentile per-packet one-way delay: 240.305 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 56.27 Mbit/s
95th percentile per-packet one-way delay: 240.936 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 239.814 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 229.442 ms
Loss rate: 3.87%
```

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

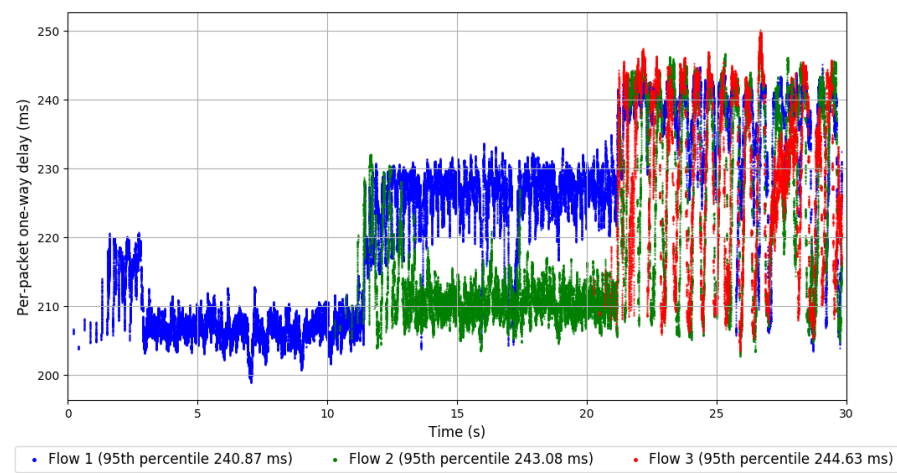
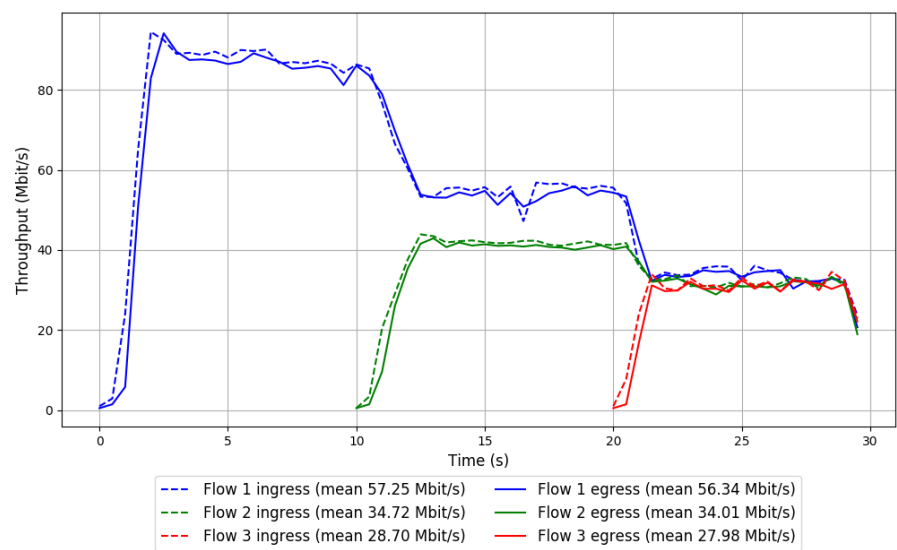


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-04 18:13:38
End at: 2018-02-04 18:14:08
Local clock offset: 0.787 ms
Remote clock offset: 20.809 ms

Below is generated by plot.py at 2018-02-05 03:16:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.83 Mbit/s
95th percentile per-packet one-way delay: 242.068 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 56.34 Mbit/s
95th percentile per-packet one-way delay: 240.872 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 34.01 Mbit/s
95th percentile per-packet one-way delay: 243.082 ms
Loss rate: 3.12%
-- Flow 3:
Average throughput: 27.98 Mbit/s
95th percentile per-packet one-way delay: 244.633 ms
Loss rate: 4.69%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-04 18:55:08

End at: 2018-02-04 18:55:38

Local clock offset: 4.897 ms

Remote clock offset: 21.1 ms

Below is generated by plot.py at 2018-02-05 03:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.82 Mbit/s

95th percentile per-packet one-way delay: 240.991 ms

Loss rate: 2.13%

-- Flow 1:

Average throughput: 52.62 Mbit/s

95th percentile per-packet one-way delay: 238.610 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 37.72 Mbit/s

95th percentile per-packet one-way delay: 245.809 ms

Loss rate: 2.47%

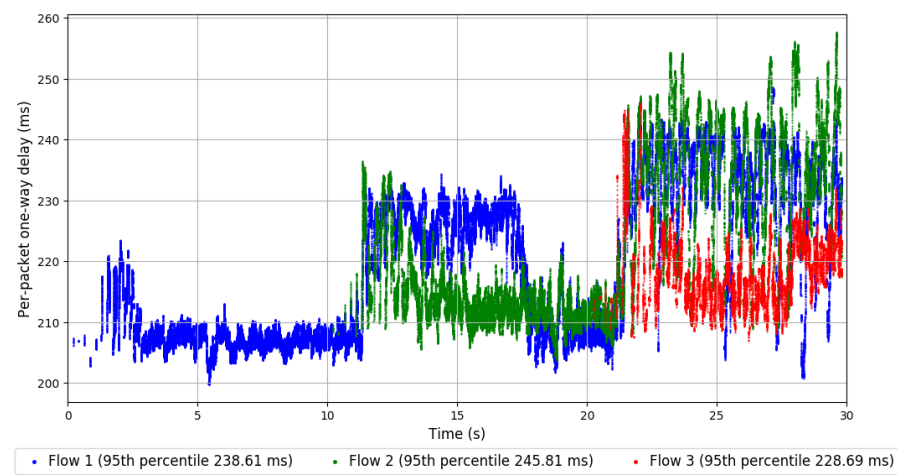
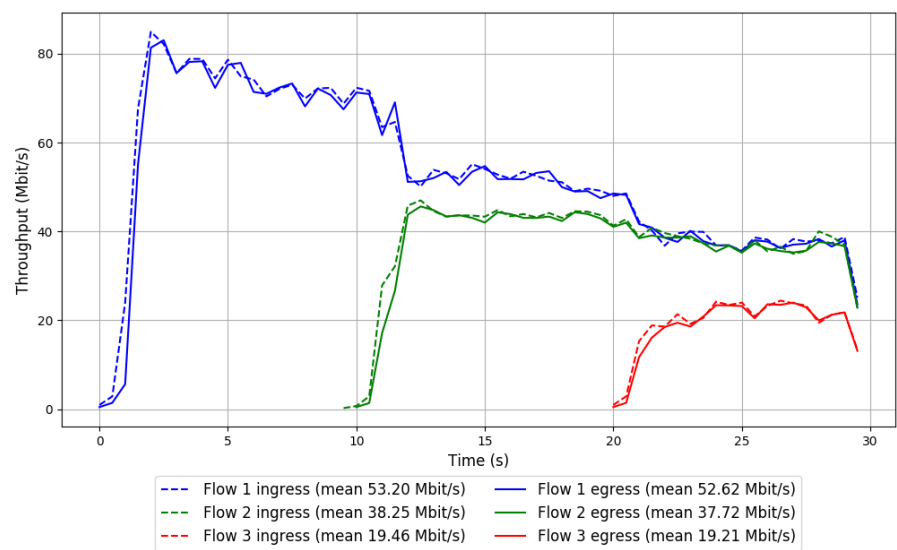
-- Flow 3:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 228.693 ms

Loss rate: 3.48%

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

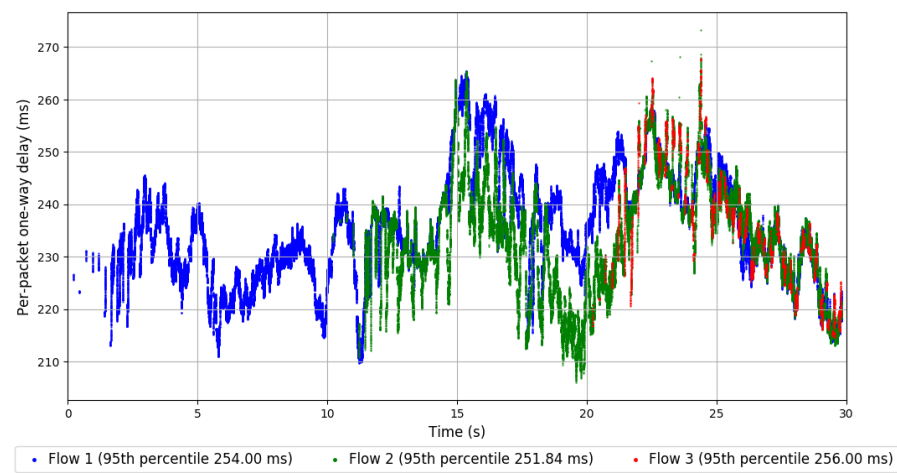
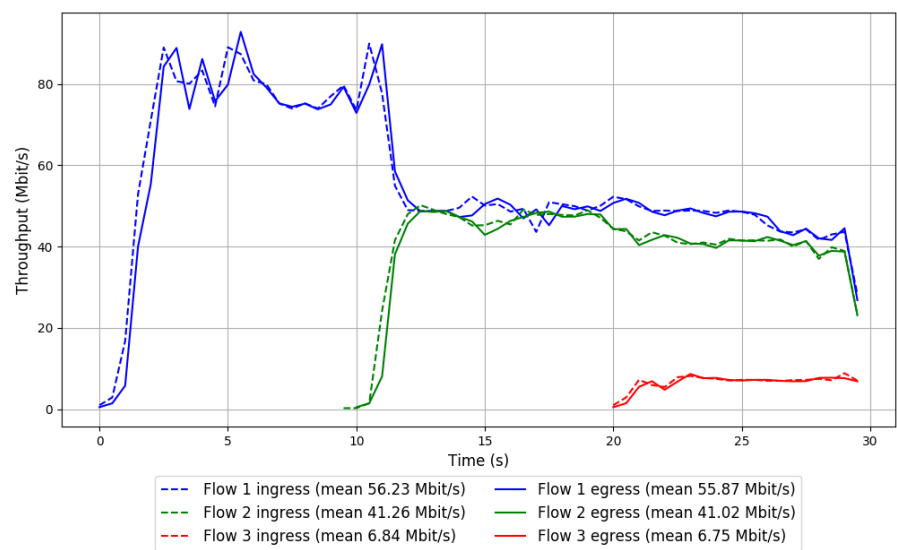


Run 4: Statistics of Indigo-1-32

Start at: 2018-02-04 19:34:46
End at: 2018-02-04 19:35:16
Local clock offset: 1.361 ms
Remote clock offset: 20.433 ms

Below is generated by plot.py at 2018-02-05 03:16:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.20 Mbit/s
95th percentile per-packet one-way delay: 253.565 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 55.87 Mbit/s
95th percentile per-packet one-way delay: 253.997 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 41.02 Mbit/s
95th percentile per-packet one-way delay: 251.842 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 256.003 ms
Loss rate: 3.52%

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



Run 5: Statistics of Indigo-1-32

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

End at: 2018-02-04 20:05:09

Local clock offset: 2.967 ms

Remote clock offset: 7.059 ms

Below is generated by plot.py at 2018-02-05 03:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 222.444 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 222.885 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 44.38 Mbit/s

95th percentile per-packet one-way delay: 222.208 ms

Loss rate: 1.14%

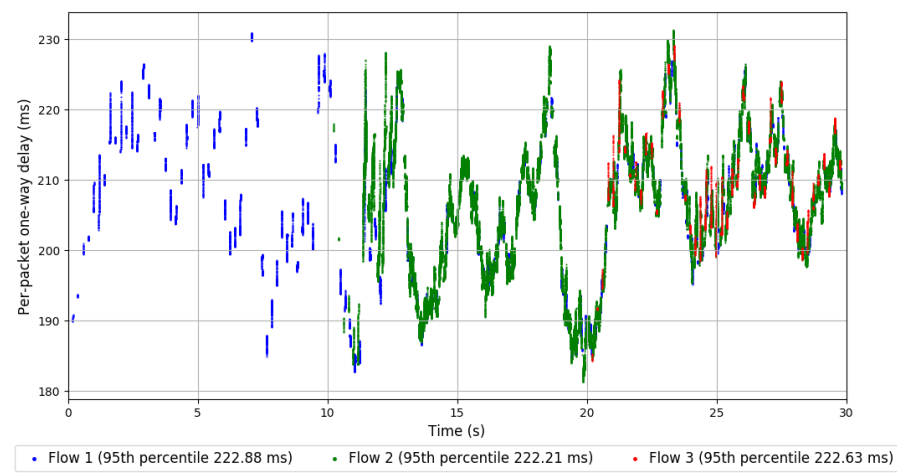
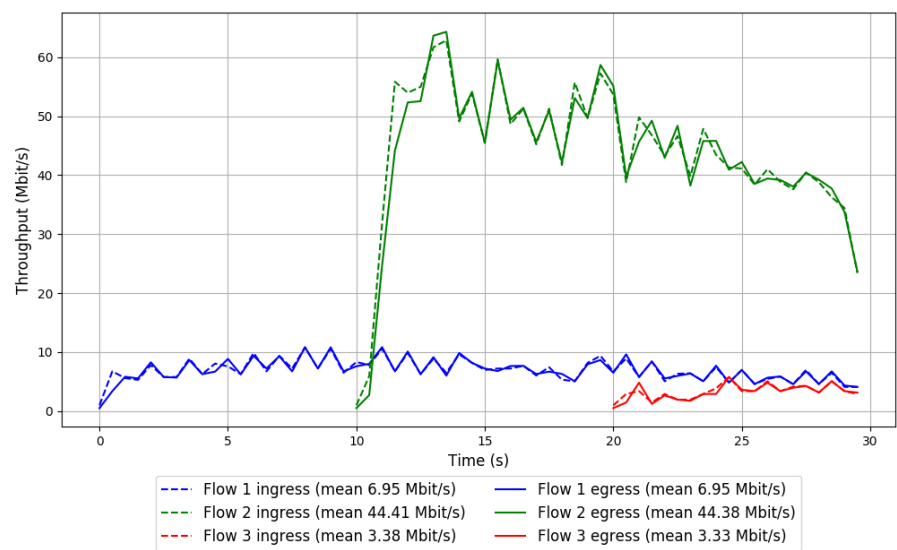
-- Flow 3:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 222.635 ms

Loss rate: 3.18%

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

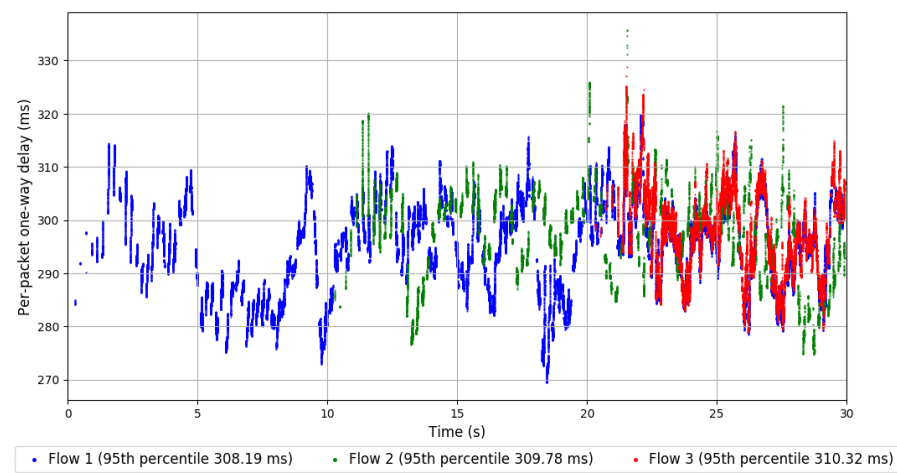
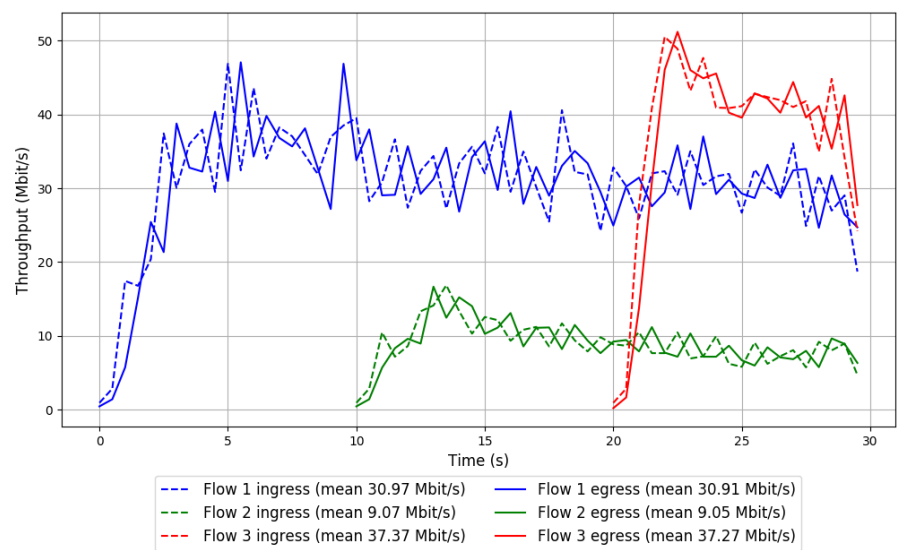


Run 6: Statistics of Indigo-1-32

Start at: 2018-02-04 20:35:01
End at: 2018-02-04 20:35:32
Local clock offset: 3.859 ms
Remote clock offset: -75.714 ms

Below is generated by plot.py at 2018-02-05 03:16:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.95 Mbit/s
95th percentile per-packet one-way delay: 309.037 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 30.91 Mbit/s
95th percentile per-packet one-way delay: 308.193 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 309.780 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 310.319 ms
Loss rate: 2.40%

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

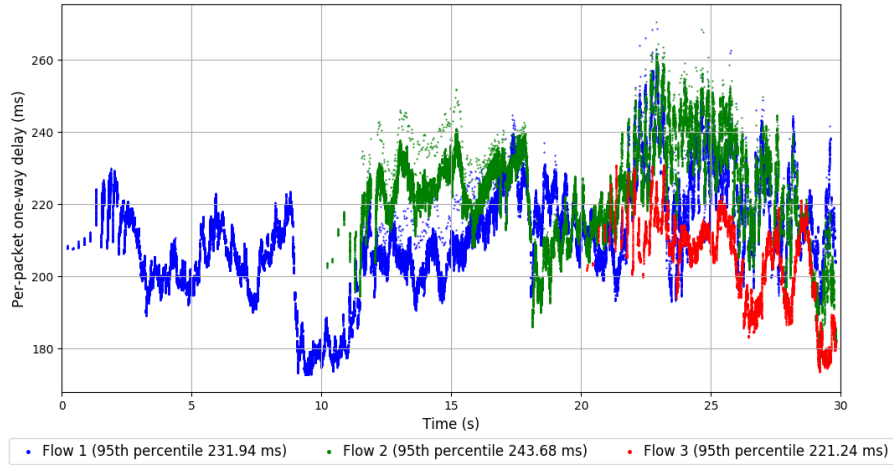
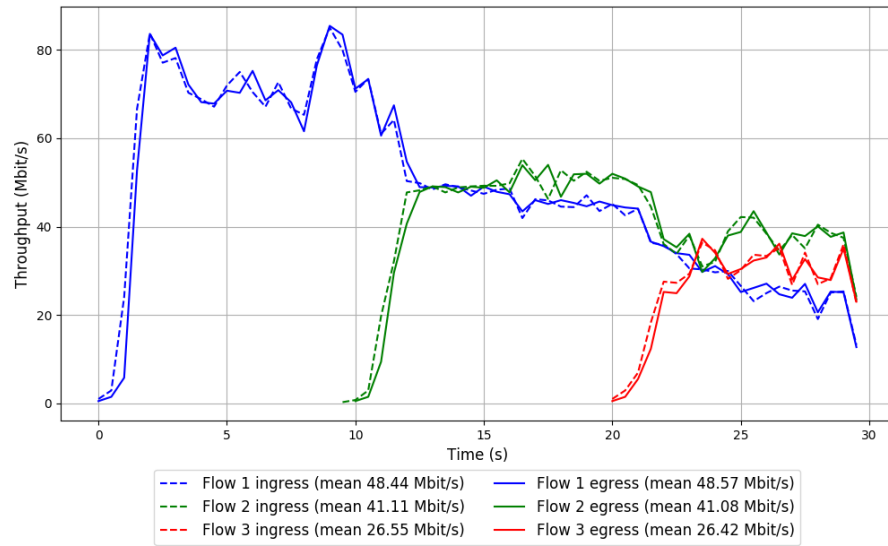


Run 7: Statistics of Indigo-1-32

Start at: 2018-02-04 21:06:18
End at: 2018-02-04 21:06:48
Local clock offset: 2.766 ms
Remote clock offset: 16.087 ms

Below is generated by plot.py at 2018-02-05 03:16:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.30 Mbit/s
95th percentile per-packet one-way delay: 237.332 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 48.57 Mbit/s
95th percentile per-packet one-way delay: 231.938 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 41.08 Mbit/s
95th percentile per-packet one-way delay: 243.680 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 221.243 ms
Loss rate: 2.58%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-04 21:36:58

End at: 2018-02-04 21:37:28

Local clock offset: 3.566 ms

Remote clock offset: 1.594 ms

Below is generated by plot.py at 2018-02-05 03:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 243.644 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 57.06 Mbit/s

95th percentile per-packet one-way delay: 245.641 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 237.623 ms

Loss rate: 1.00%

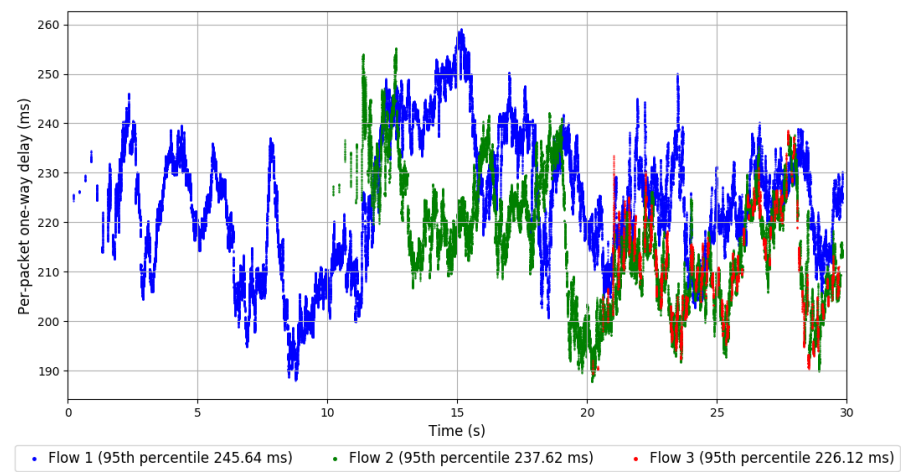
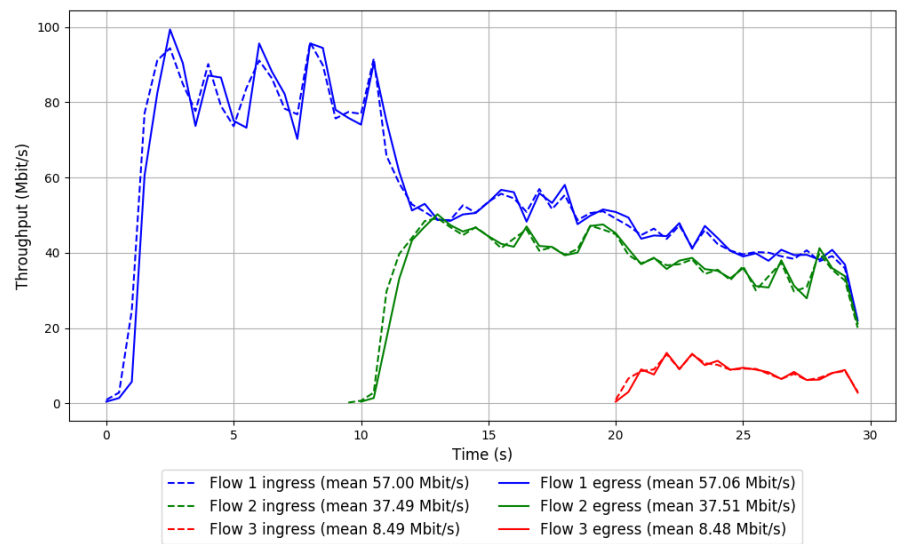
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 226.125 ms

Loss rate: 2.05%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-04 22:05:43

End at: 2018-02-04 22:06:13

Local clock offset: 3.334 ms

Remote clock offset: 3.022 ms

Below is generated by plot.py at 2018-02-05 03:16:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 222.146 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 57.20 Mbit/s

95th percentile per-packet one-way delay: 223.848 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 36.03 Mbit/s

95th percentile per-packet one-way delay: 219.733 ms

Loss rate: 0.91%

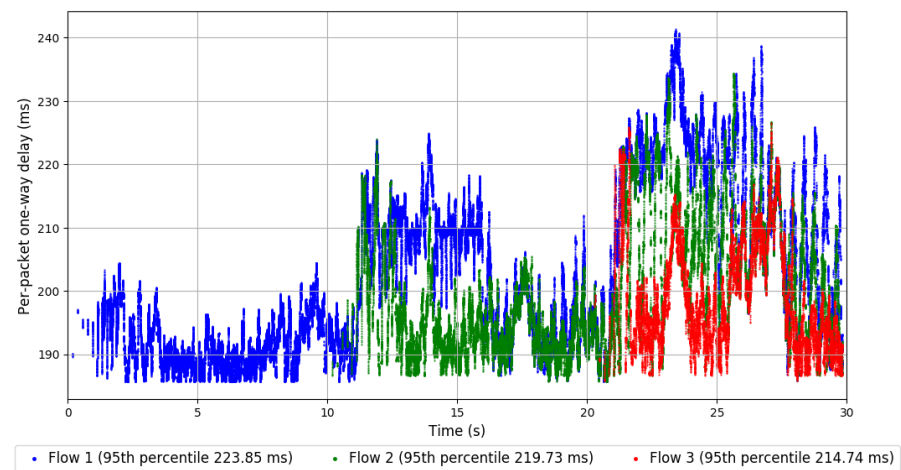
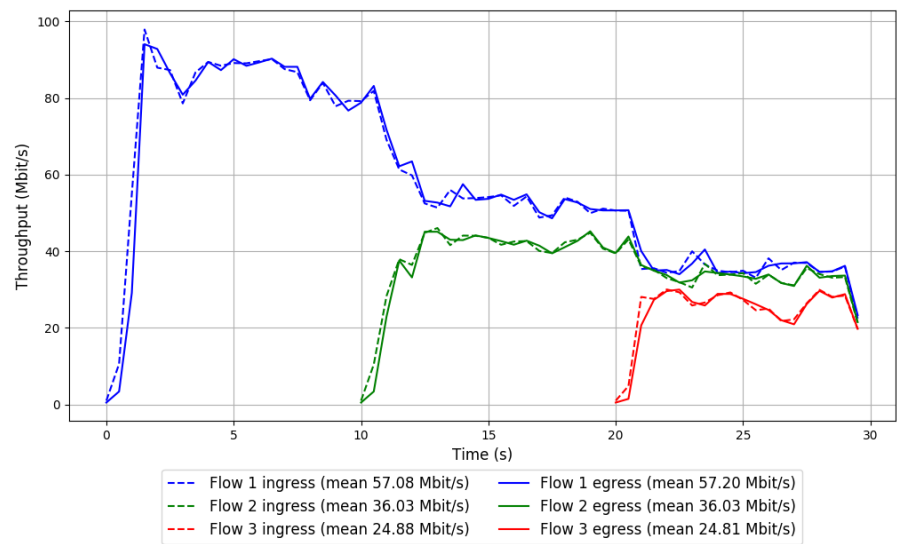
-- Flow 3:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 214.735 ms

Loss rate: 2.25%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-04 22:31:09

End at: 2018-02-04 22:31:39

Local clock offset: 2.277 ms

Remote clock offset: 5.506 ms

Below is generated by plot.py at 2018-02-05 03:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.59 Mbit/s

95th percentile per-packet one-way delay: 219.954 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 56.56 Mbit/s

95th percentile per-packet one-way delay: 218.327 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 219.430 ms

Loss rate: 0.76%

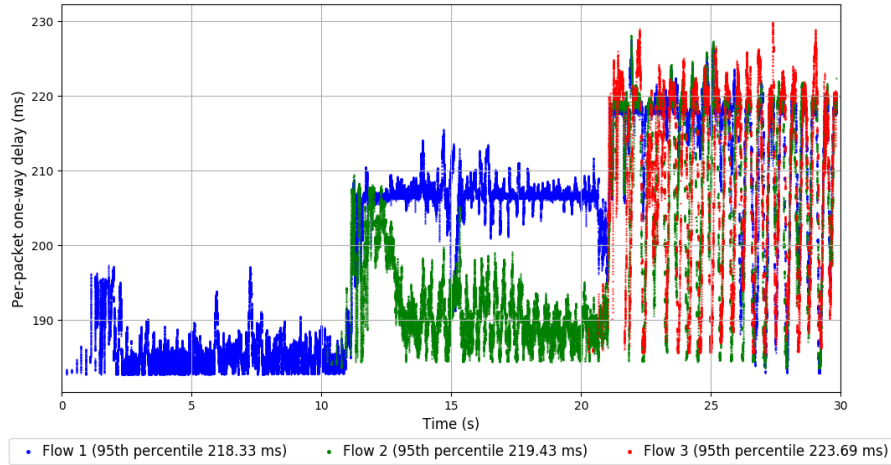
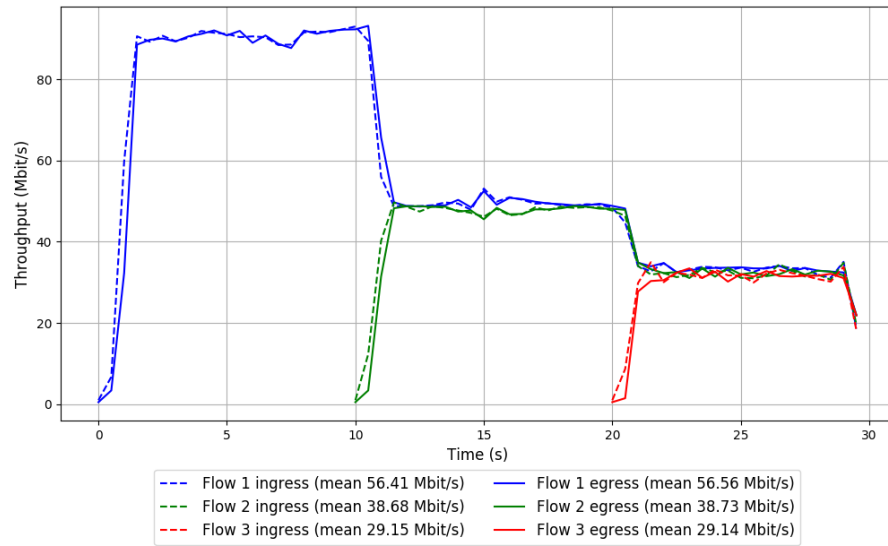
-- Flow 3:

Average throughput: 29.14 Mbit/s

95th percentile per-packet one-way delay: 223.686 ms

Loss rate: 1.88%

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

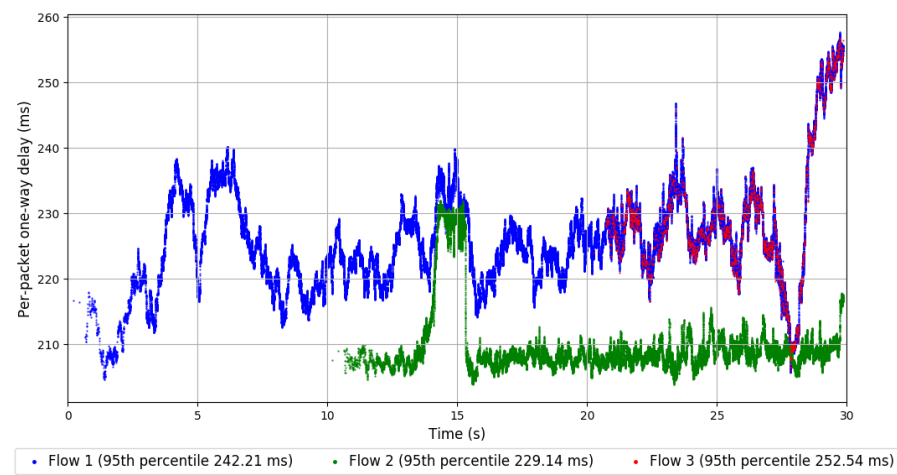
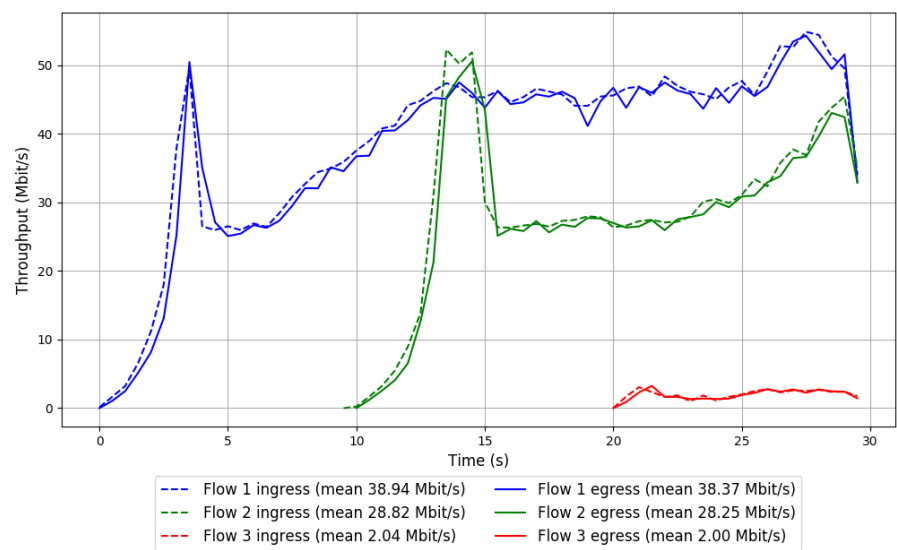


Run 1: Statistics of Vivace-latency

Start at: 2018-02-04 17:48:42
End at: 2018-02-04 17:49:12
Local clock offset: 3.349 ms
Remote clock offset: 31.417 ms

Below is generated by plot.py at 2018-02-05 03:16:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.74 Mbit/s
95th percentile per-packet one-way delay: 237.059 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 38.37 Mbit/s
95th percentile per-packet one-way delay: 242.209 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 28.25 Mbit/s
95th percentile per-packet one-way delay: 229.141 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 252.540 ms
Loss rate: 3.98%

Run 1: Report of Vivace-latency — Data Link

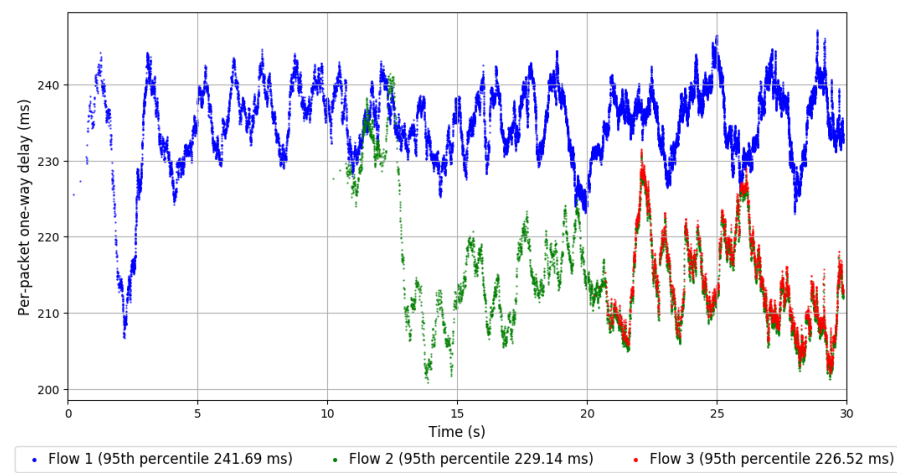
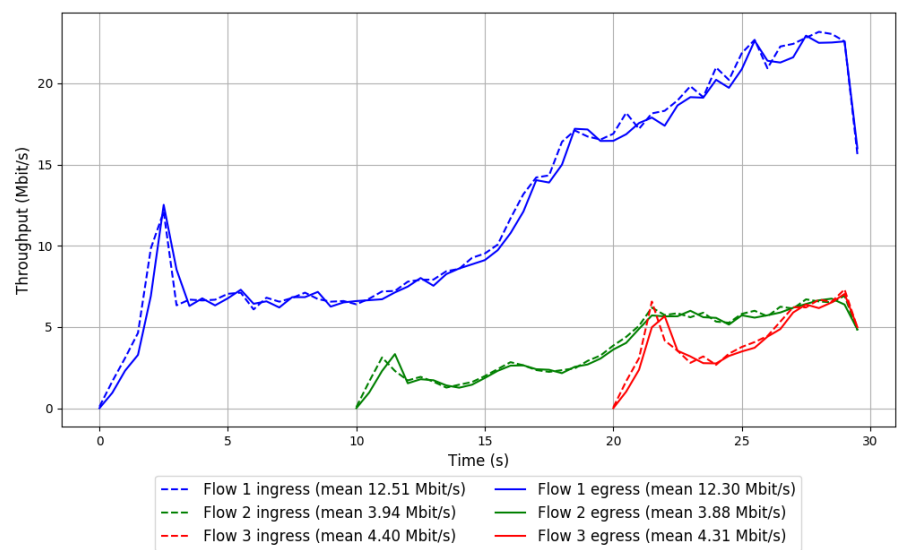


Run 2: Statistics of Vivace-latency

Start at: 2018-02-04 18:32:37
End at: 2018-02-04 18:33:07
Local clock offset: 6.312 ms
Remote clock offset: 21.613 ms

Below is generated by plot.py at 2018-02-05 03:16:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 241.202 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 241.692 ms
Loss rate: 2.43%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 229.144 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 226.523 ms
Loss rate: 4.20%

Run 2: Report of Vivace-latency — Data Link

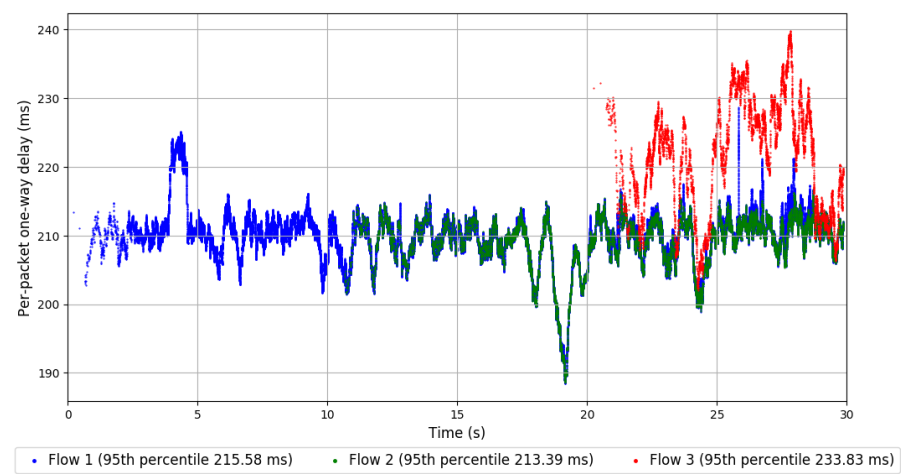
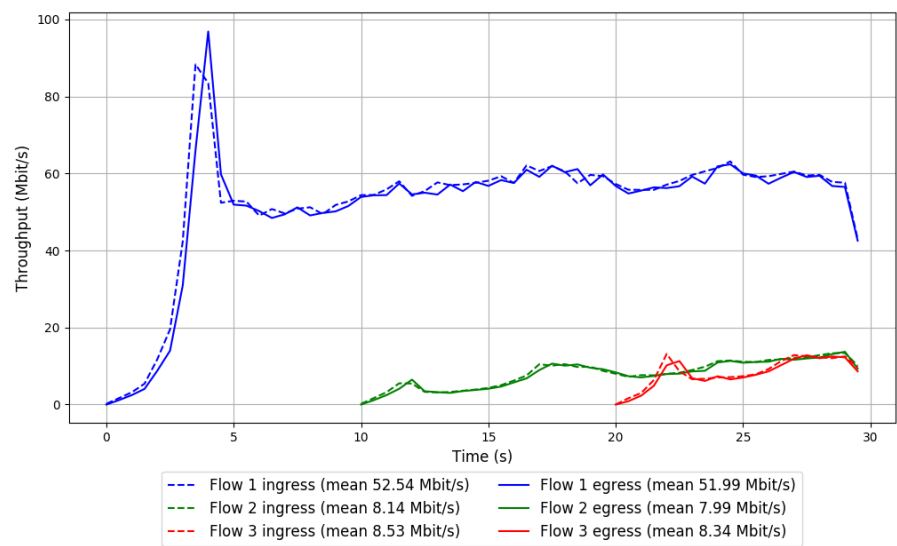


Run 3: Statistics of Vivace-latency

Start at: 2018-02-04 19:11:57
End at: 2018-02-04 19:12:27
Local clock offset: 2.408 ms
Remote clock offset: 16.268 ms

Below is generated by plot.py at 2018-02-05 03:16:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.99 Mbit/s
95th percentile per-packet one-way delay: 221.300 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 215.576 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 213.386 ms
Loss rate: 2.95%
-- Flow 3:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 233.827 ms
Loss rate: 4.62%

Run 3: Report of Vivace-latency — Data Link

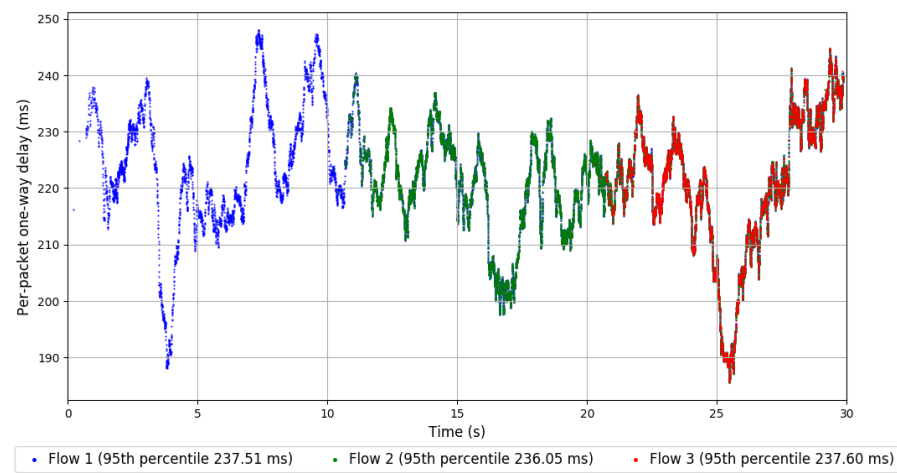
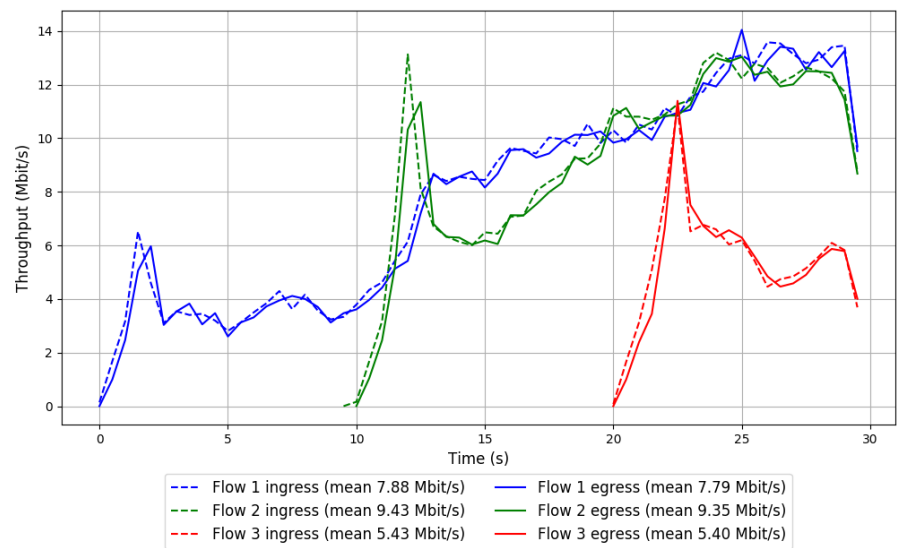


Run 4: Statistics of Vivace-latency

Start at: 2018-02-04 19:49:00
End at: 2018-02-04 19:49:30
Local clock offset: 2.439 ms
Remote clock offset: 12.713 ms

Below is generated by plot.py at 2018-02-05 03:16:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.74 Mbit/s
95th percentile per-packet one-way delay: 237.014 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 237.508 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 236.048 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 237.601 ms
Loss rate: 2.81%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-04 20:17:30

End at: 2018-02-04 20:18:00

Local clock offset: 2.65 ms

Remote clock offset: 17.29 ms

Below is generated by plot.py at 2018-02-05 03:16:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.05 Mbit/s

95th percentile per-packet one-way delay: 216.735 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 214.796 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 221.153 ms

Loss rate: 1.88%

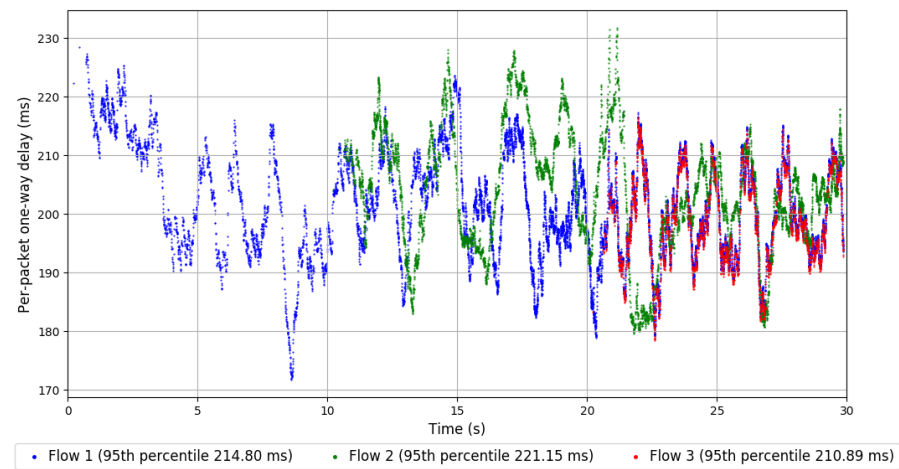
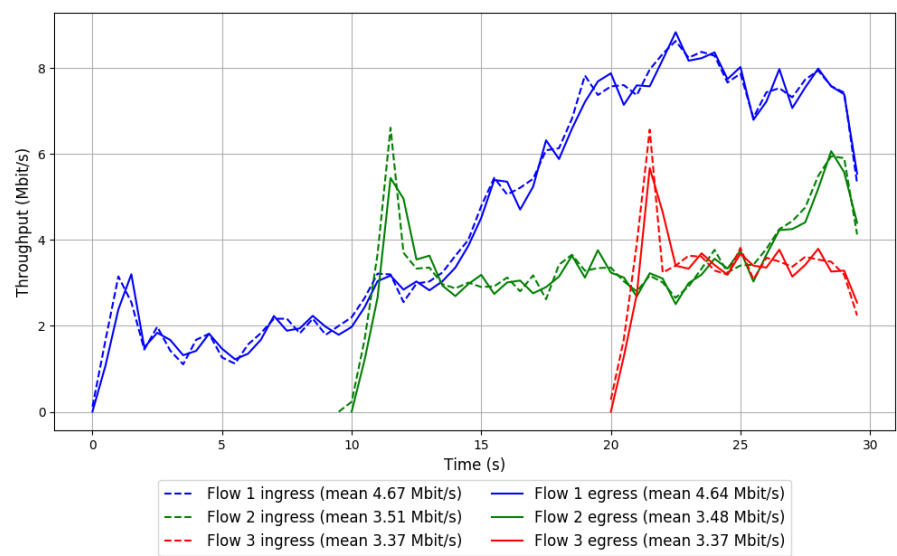
-- Flow 3:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 210.890 ms

Loss rate: 1.83%

Run 5: Report of Vivace-latency — Data Link

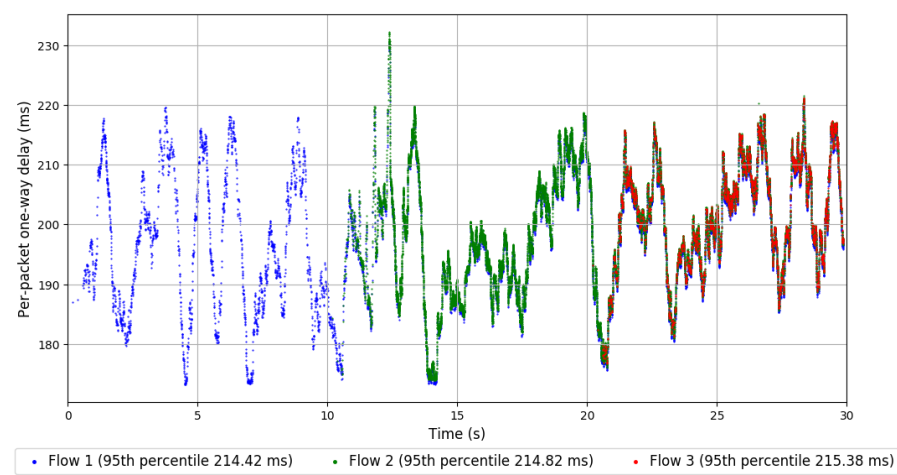
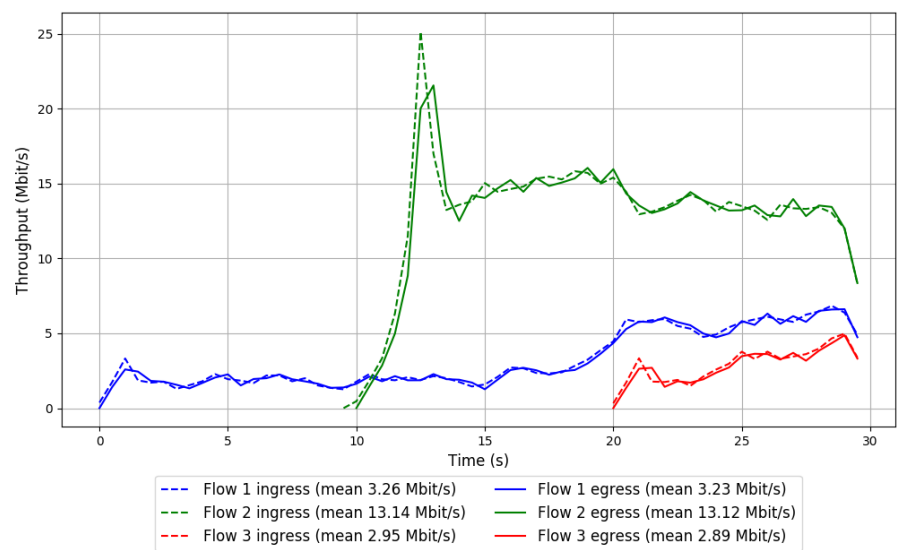


Run 6: Statistics of Vivace-latency

Start at: 2018-02-04 20:48:34
End at: 2018-02-04 20:49:04
Local clock offset: 4.032 ms
Remote clock offset: 15.629 ms

Below is generated by plot.py at 2018-02-05 03:16:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 214.785 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 214.422 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 214.817 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 215.381 ms
Loss rate: 3.98%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-04 21:20:05

End at: 2018-02-04 21:20:35

Local clock offset: 2.483 ms

Remote clock offset: 4.621 ms

Below is generated by plot.py at 2018-02-05 03:16:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 223.740 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 9.33 Mbit/s

95th percentile per-packet one-way delay: 223.185 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 224.244 ms

Loss rate: 1.19%

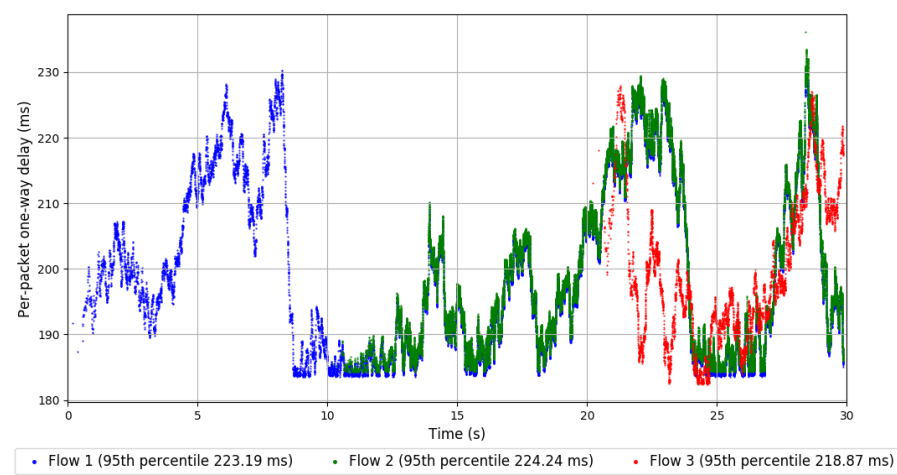
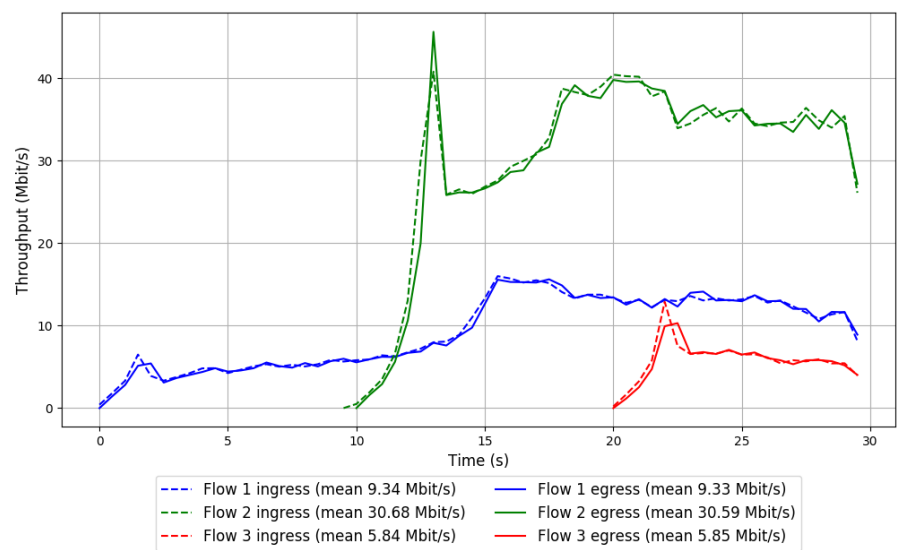
-- Flow 3:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 218.865 ms

Loss rate: 2.05%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-04 21:51:08

End at: 2018-02-04 21:51:38

Local clock offset: 2.626 ms

Remote clock offset: 4.693 ms

Below is generated by plot.py at 2018-02-05 03:16:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 213.741 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 216.950 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 213.427 ms

Loss rate: 1.31%

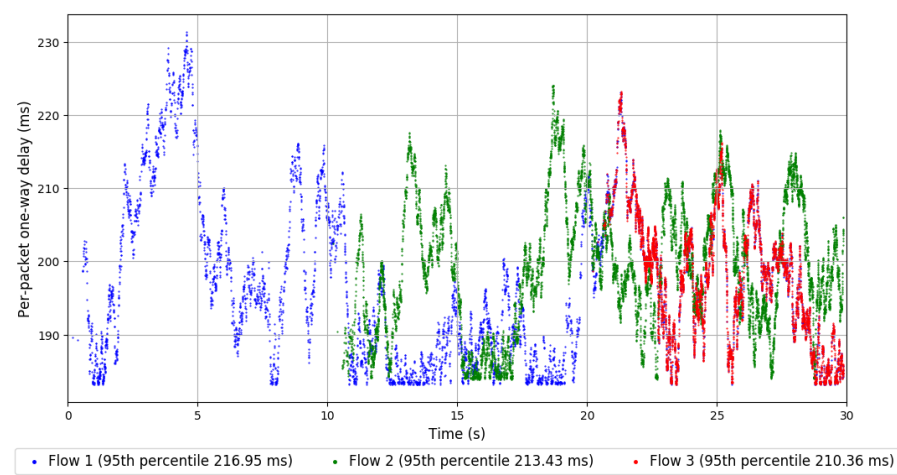
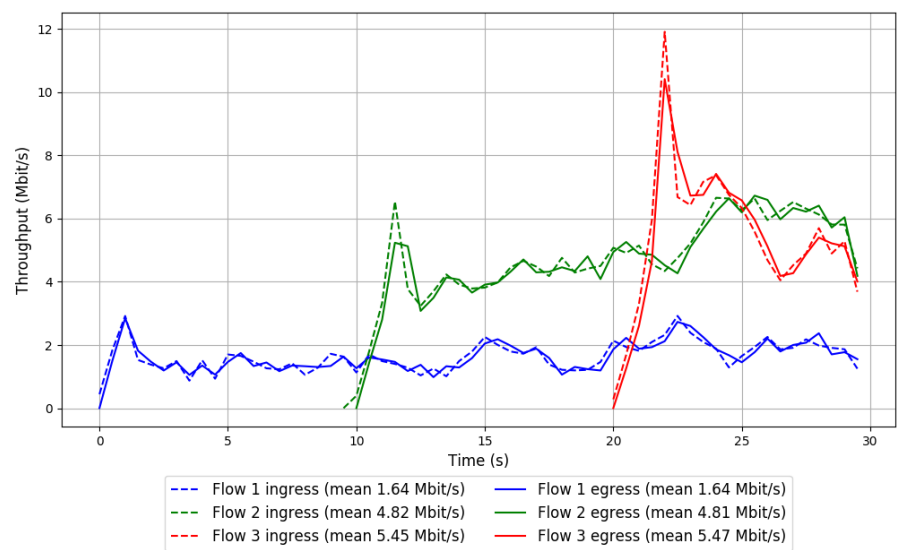
-- Flow 3:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 210.364 ms

Loss rate: 1.56%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-04 22:17:03

End at: 2018-02-04 22:17:33

Local clock offset: 4.143 ms

Remote clock offset: 3.828 ms

Below is generated by plot.py at 2018-02-05 03:17:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: 196.348 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 50.57 Mbit/s

95th percentile per-packet one-way delay: 197.138 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 17.71 Mbit/s

95th percentile per-packet one-way delay: 193.318 ms

Loss rate: 1.89%

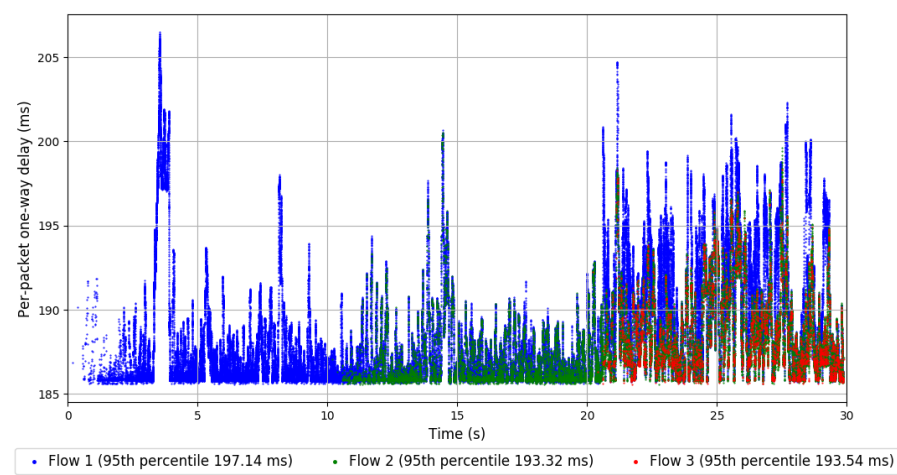
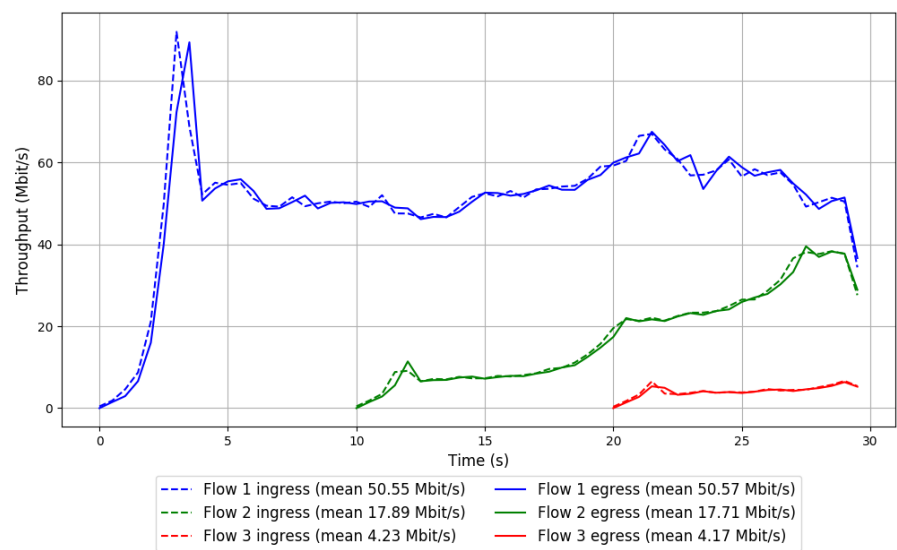
-- Flow 3:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 193.545 ms

Loss rate: 3.22%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-04 22:42:14

End at: 2018-02-04 22:42:44

Local clock offset: 4.213 ms

Remote clock offset: 7.332 ms

Below is generated by plot.py at 2018-02-05 03:17:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 211.739 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 212.512 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 209.840 ms

Loss rate: 1.05%

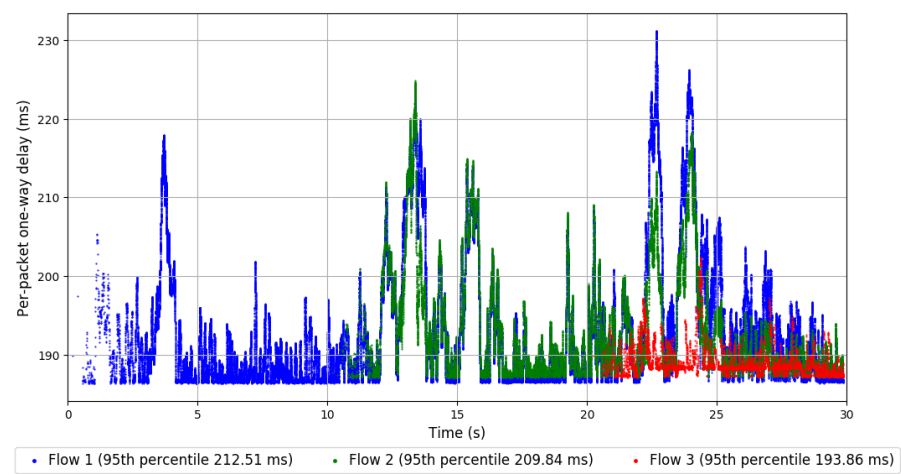
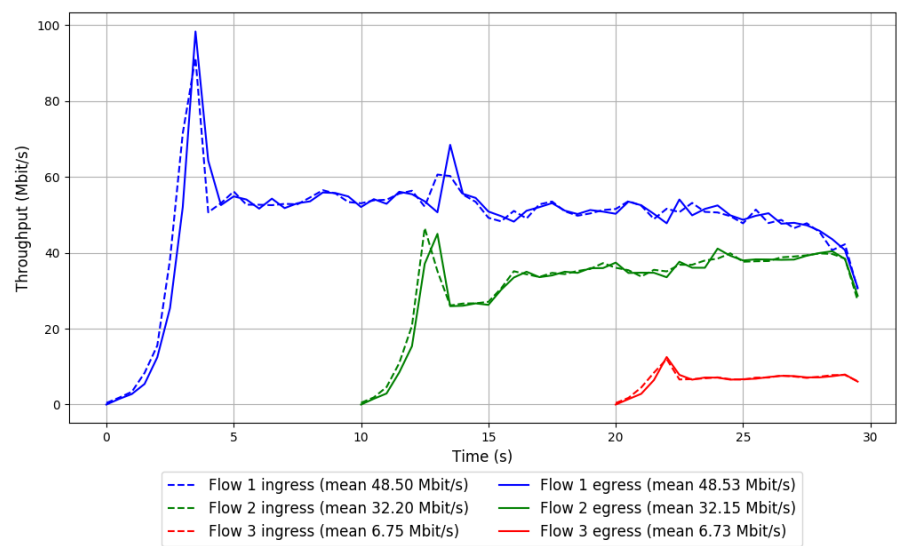
-- Flow 3:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 193.864 ms

Loss rate: 2.26%

Run 10: Report of Vivace-latency — Data Link

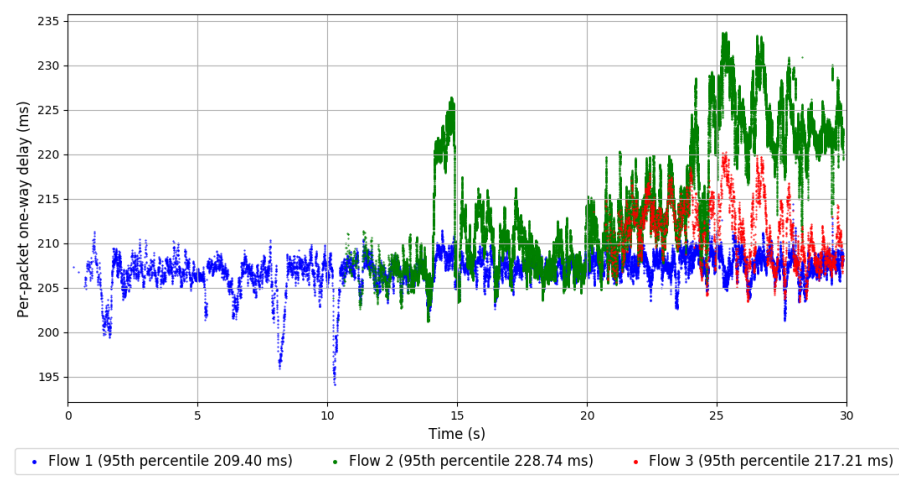
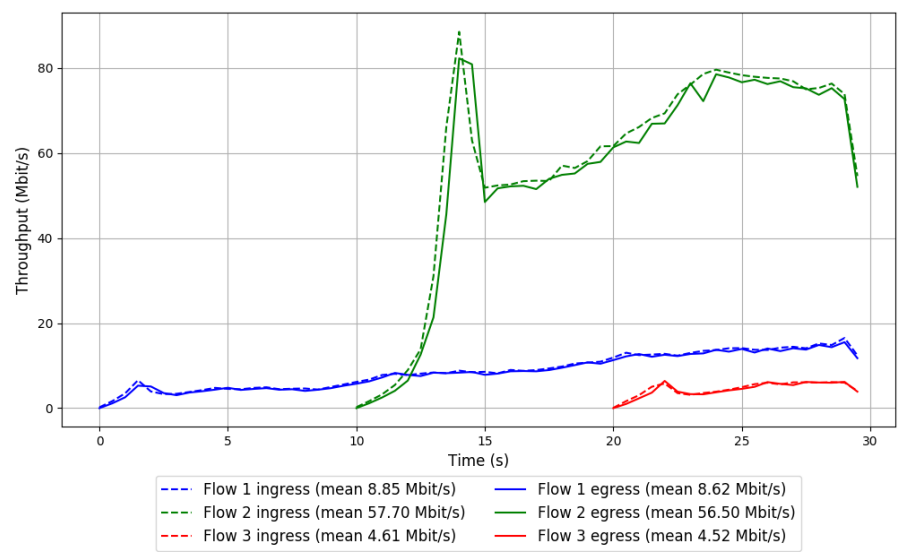


Run 1: Statistics of Vivace-loss

Start at: 2018-02-04 17:59:05
End at: 2018-02-04 17:59:35
Local clock offset: 2.574 ms
Remote clock offset: 27.459 ms

Below is generated by plot.py at 2018-02-05 03:17:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.53 Mbit/s
95th percentile per-packet one-way delay: 228.186 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 209.396 ms
Loss rate: 3.33%
-- Flow 2:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 228.743 ms
Loss rate: 3.16%
-- Flow 3:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 217.205 ms
Loss rate: 4.19%

Run 1: Report of Vivace-loss — Data Link

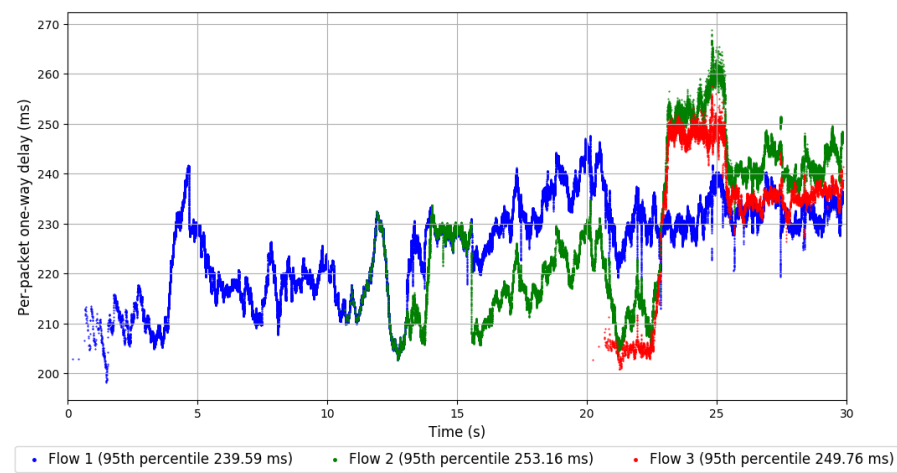
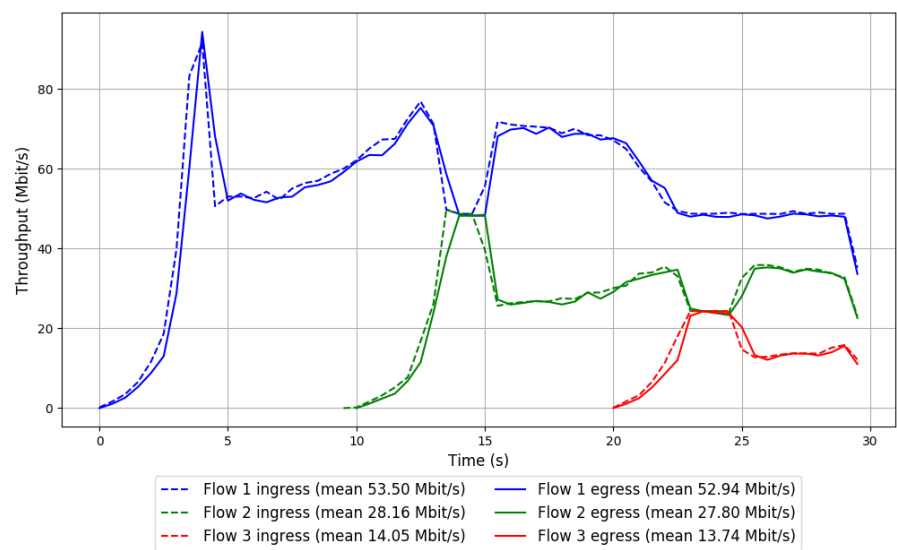


Run 2: Statistics of Vivace-loss

Start at: 2018-02-04 18:41:36
End at: 2018-02-04 18:42:06
Local clock offset: 2.76 ms
Remote clock offset: 21.231 ms

Below is generated by plot.py at 2018-02-05 03:17:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 246.371 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 52.94 Mbit/s
95th percentile per-packet one-way delay: 239.591 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 27.80 Mbit/s
95th percentile per-packet one-way delay: 253.162 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 13.74 Mbit/s
95th percentile per-packet one-way delay: 249.757 ms
Loss rate: 4.29%

Run 2: Report of Vivace-loss — Data Link

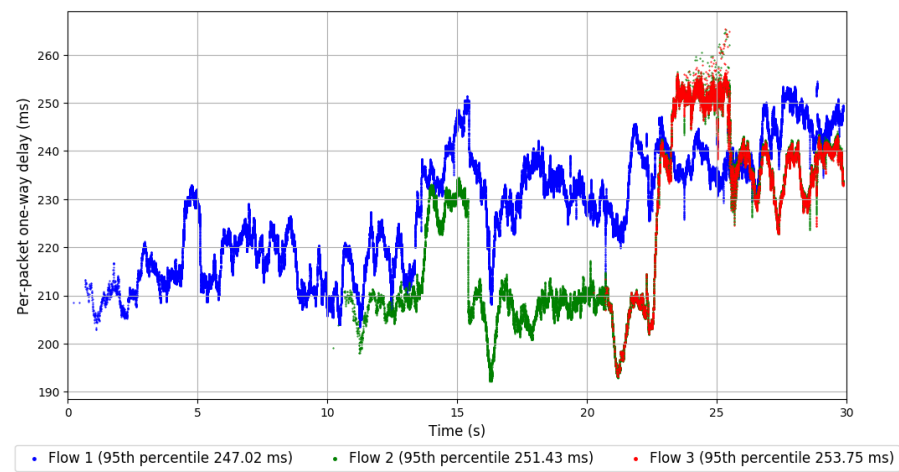
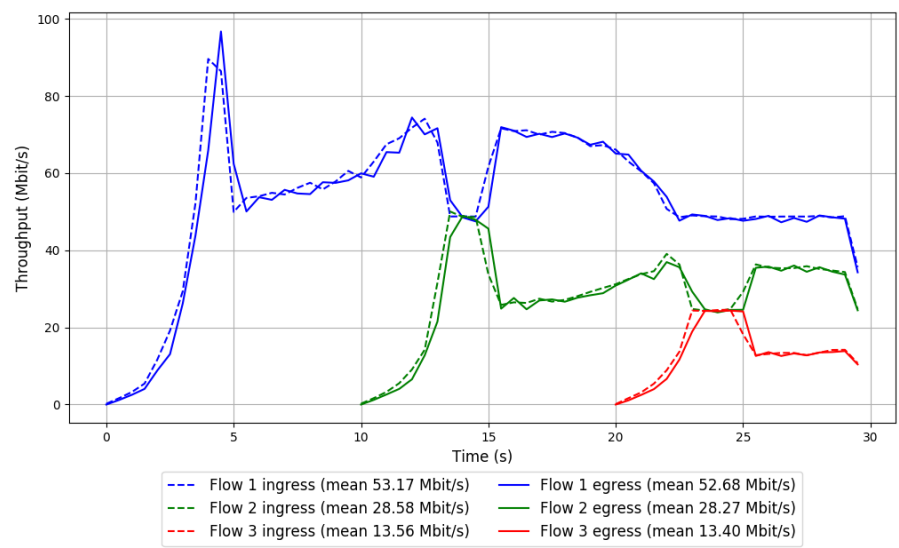


Run 3: Statistics of Vivace-loss

Start at: 2018-02-04 19:21:35
End at: 2018-02-04 19:22:05
Local clock offset: 2.905 ms
Remote clock offset: 19.292 ms

Below is generated by plot.py at 2018-02-05 03:17:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.77 Mbit/s
95th percentile per-packet one-way delay: 249.718 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 52.68 Mbit/s
95th percentile per-packet one-way delay: 247.021 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 28.27 Mbit/s
95th percentile per-packet one-way delay: 251.432 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 253.753 ms
Loss rate: 3.37%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-04 19:55:53

End at: 2018-02-04 19:56:23

Local clock offset: 3.512 ms

Remote clock offset: 2.922 ms

Below is generated by plot.py at 2018-02-05 03:17:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 278.638 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 274.230 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 279.930 ms

Loss rate: 2.01%

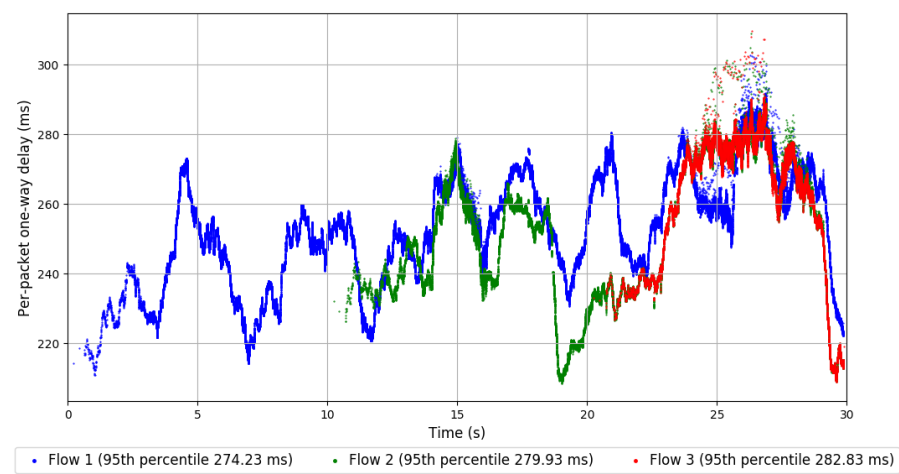
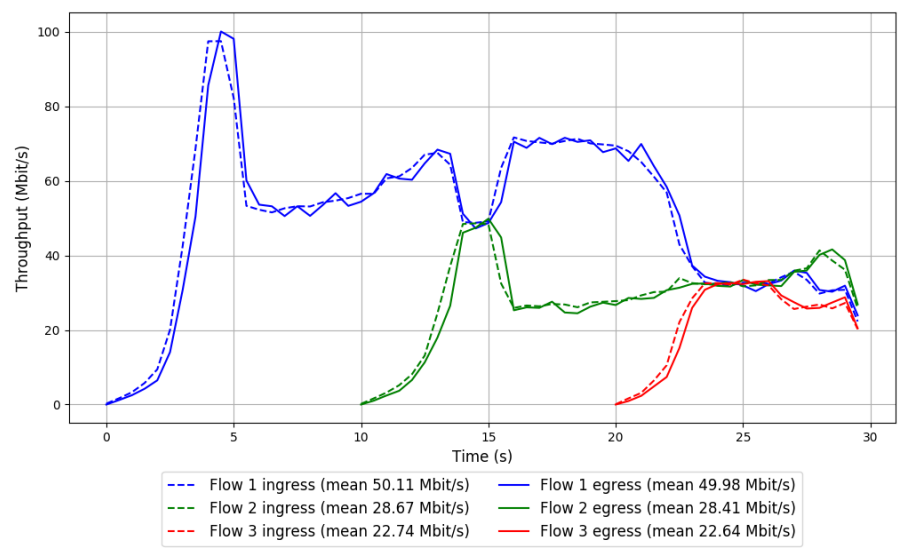
-- Flow 3:

Average throughput: 22.64 Mbit/s

95th percentile per-packet one-way delay: 282.827 ms

Loss rate: 2.75%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-04 20:24:24

End at: 2018-02-04 20:24:54

Local clock offset: 1.417 ms

Remote clock offset: 4.673 ms

Below is generated by plot.py at 2018-02-05 03:17:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 248.380 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 242.344 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 253.620 ms

Loss rate: 1.63%

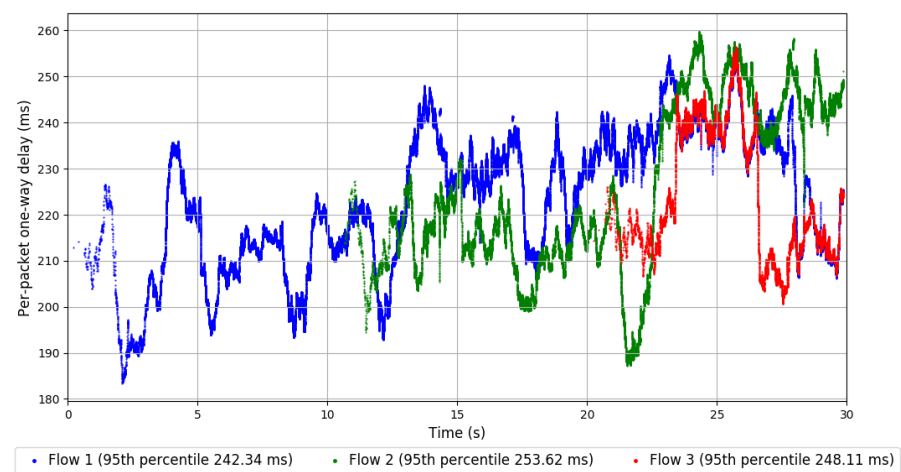
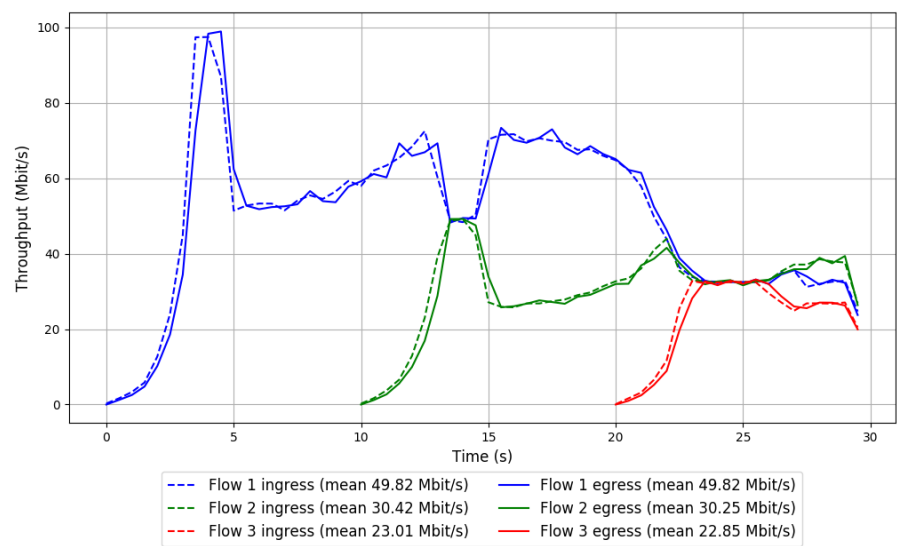
-- Flow 3:

Average throughput: 22.85 Mbit/s

95th percentile per-packet one-way delay: 248.109 ms

Loss rate: 2.78%

Run 5: Report of Vivace-loss — Data Link

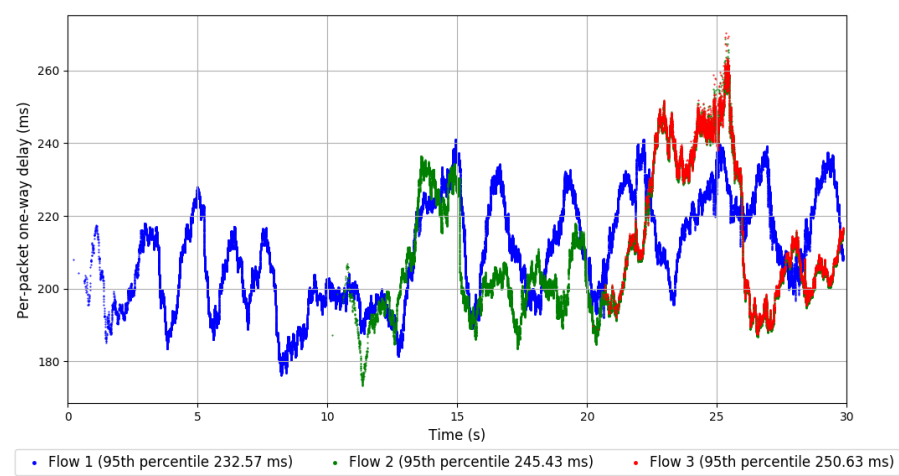
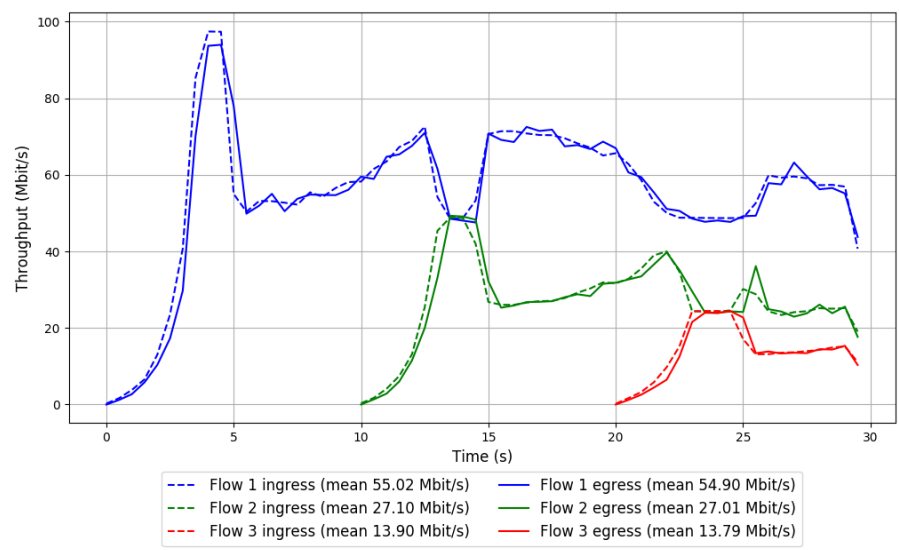


Run 6: Statistics of Vivace-loss

Start at: 2018-02-04 20:55:39
End at: 2018-02-04 20:56:09
Local clock offset: 3.908 ms
Remote clock offset: 15.908 ms

Below is generated by plot.py at 2018-02-05 03:17:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.30 Mbit/s
95th percentile per-packet one-way delay: 238.454 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 54.90 Mbit/s
95th percentile per-packet one-way delay: 232.573 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 245.426 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 13.79 Mbit/s
95th percentile per-packet one-way delay: 250.634 ms
Loss rate: 2.76%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-04 21:26:57

End at: 2018-02-04 21:27:27

Local clock offset: 2.127 ms

Remote clock offset: 1.479 ms

Below is generated by plot.py at 2018-02-05 03:18:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 251.036 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 51.09 Mbit/s

95th percentile per-packet one-way delay: 243.221 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 29.15 Mbit/s

95th percentile per-packet one-way delay: 255.727 ms

Loss rate: 1.40%

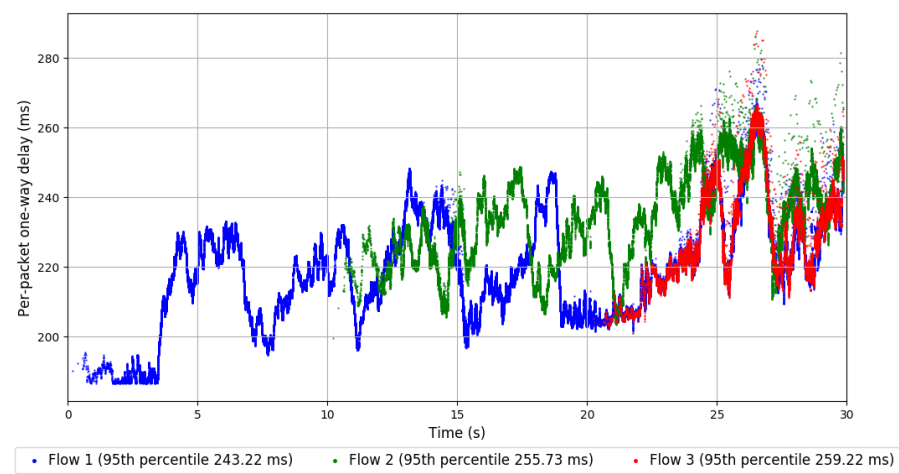
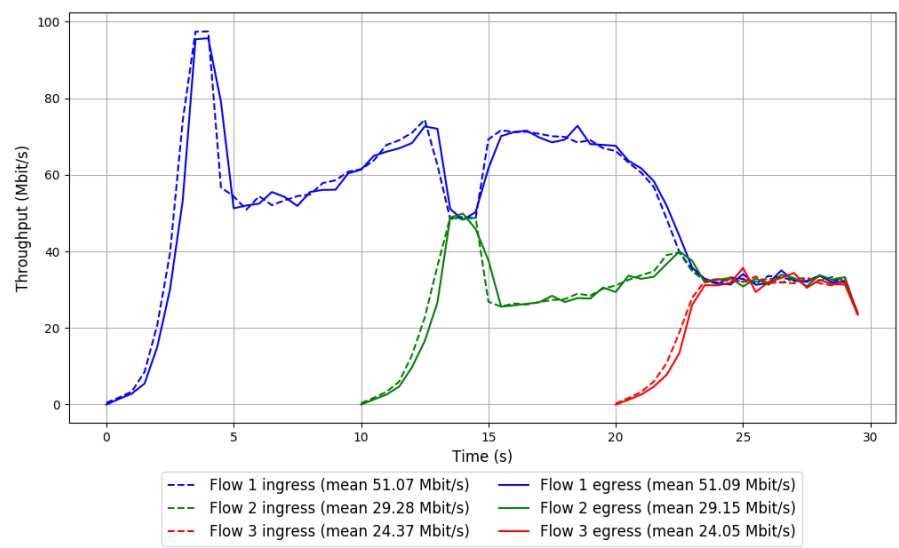
-- Flow 3:

Average throughput: 24.05 Mbit/s

95th percentile per-packet one-way delay: 259.221 ms

Loss rate: 3.27%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-04 21:57:31

End at: 2018-02-04 21:58:01

Local clock offset: 4.072 ms

Remote clock offset: 2.955 ms

Below is generated by plot.py at 2018-02-05 03:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 253.337 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 244.430 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 29.74 Mbit/s

95th percentile per-packet one-way delay: 260.784 ms

Loss rate: 1.41%

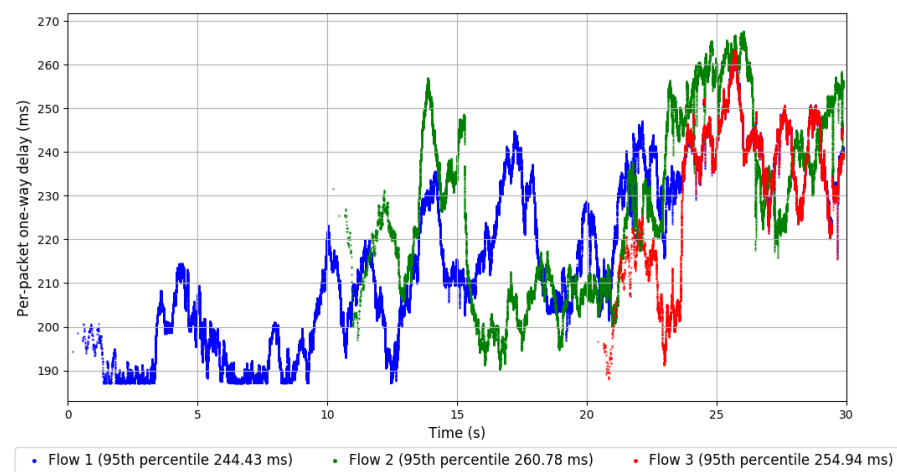
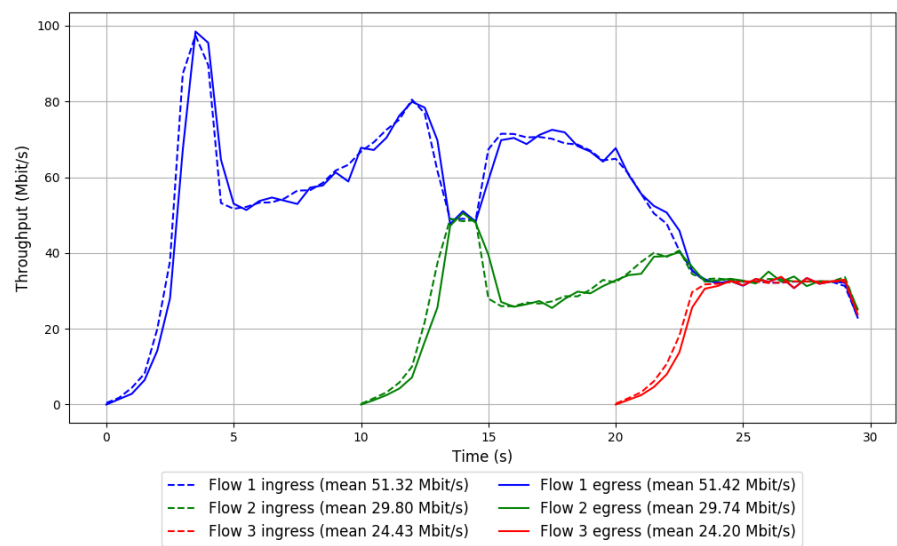
-- Flow 3:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 254.938 ms

Loss rate: 3.14%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-04 22:23:04

End at: 2018-02-04 22:23:34

Local clock offset: 1.59 ms

Remote clock offset: 3.13 ms

Below is generated by plot.py at 2018-02-05 03:18:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 217.289 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 50.86 Mbit/s

95th percentile per-packet one-way delay: 215.426 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 227.587 ms

Loss rate: 1.25%

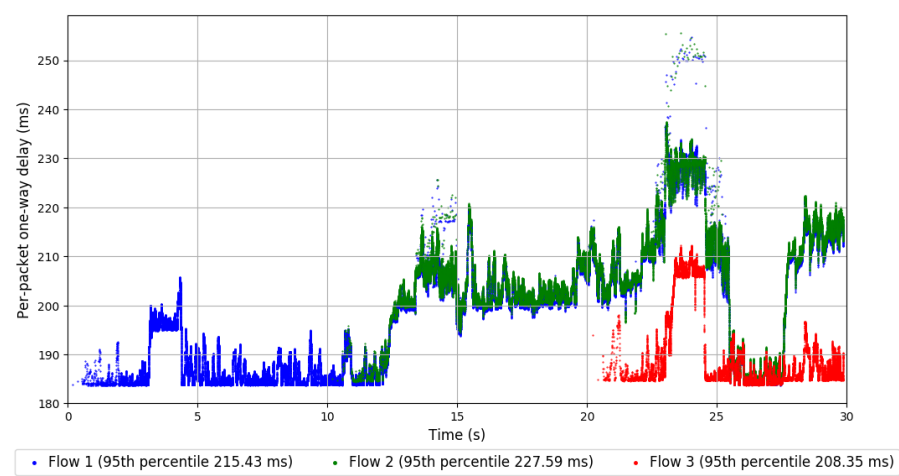
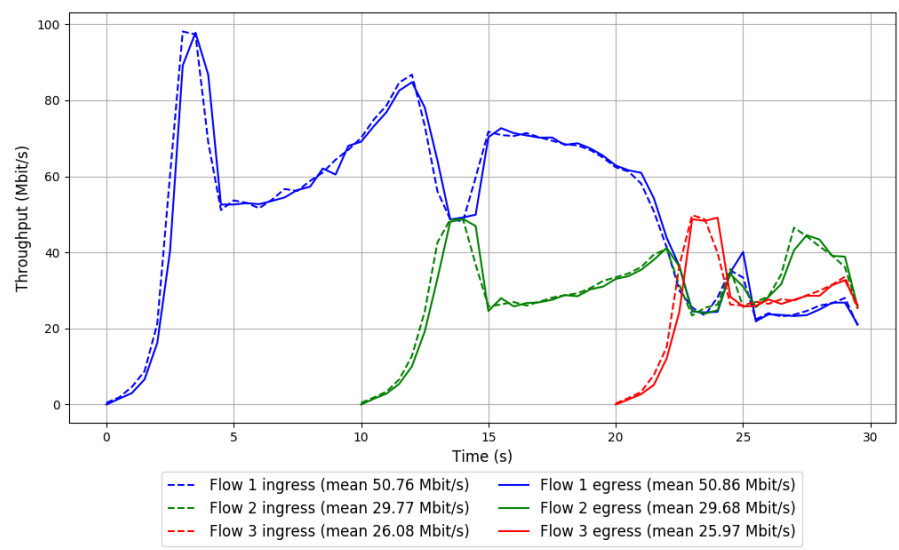
-- Flow 3:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 208.350 ms

Loss rate: 2.33%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-04 22:47:56

End at: 2018-02-04 22:48:26

Local clock offset: 3.488 ms

Remote clock offset: 9.057 ms

Below is generated by plot.py at 2018-02-05 03:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 246.456 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 49.55 Mbit/s

95th percentile per-packet one-way delay: 245.564 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 228.568 ms

Loss rate: 1.13%

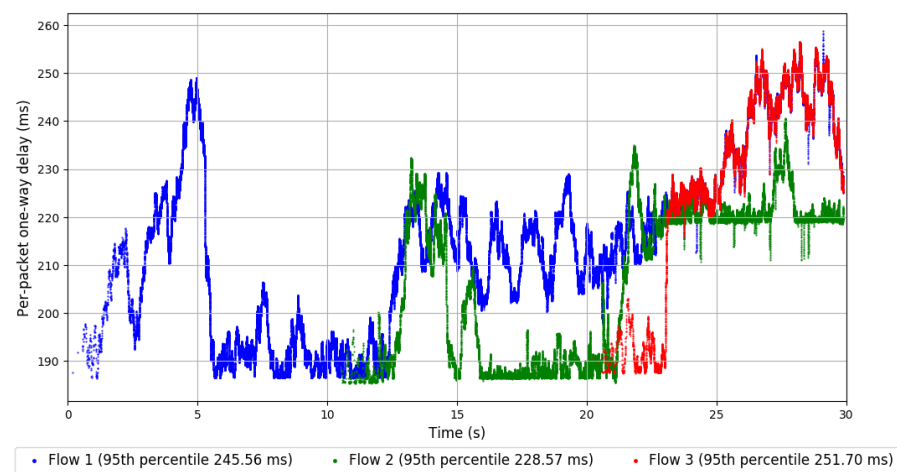
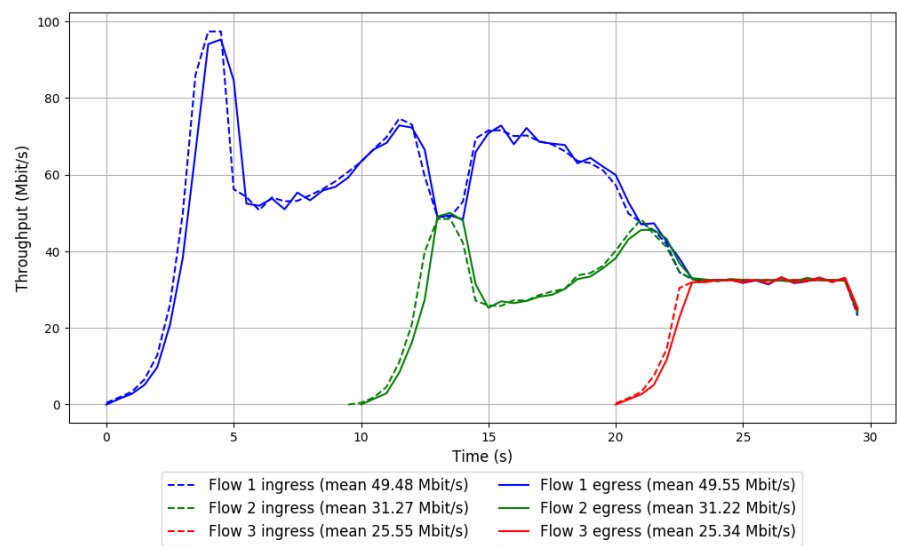
-- Flow 3:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 251.701 ms

Loss rate: 2.81%

Run 10: Report of Vivace-loss — Data Link

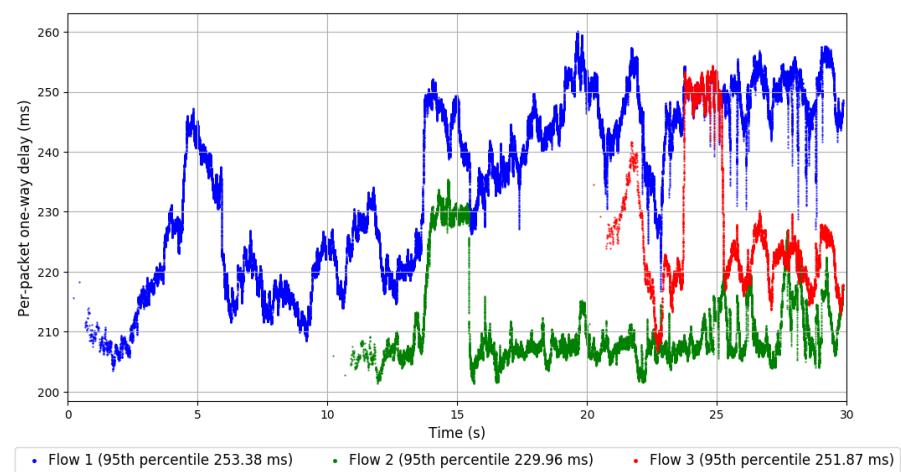
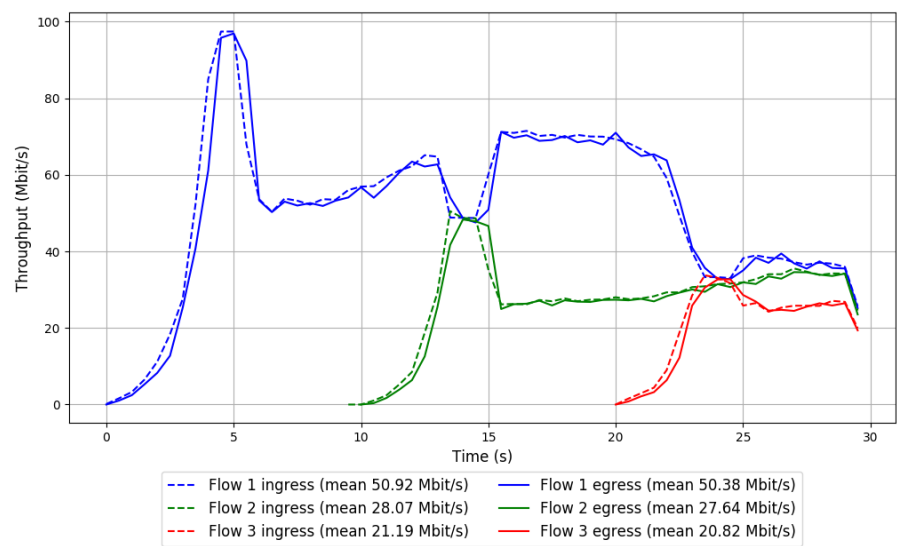


Run 1: Statistics of Vivace-LTE

Start at: 2018-02-04 17:55:41
End at: 2018-02-04 17:56:11
Local clock offset: 3.668 ms
Remote clock offset: 31.721 ms

Below is generated by plot.py at 2018-02-05 03:18:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.44 Mbit/s
95th percentile per-packet one-way delay: 252.529 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 50.38 Mbit/s
95th percentile per-packet one-way delay: 253.382 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 27.64 Mbit/s
95th percentile per-packet one-way delay: 229.959 ms
Loss rate: 2.62%
-- Flow 3:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 251.872 ms
Loss rate: 4.17%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-04 18:38:26

End at: 2018-02-04 18:38:56

Local clock offset: 5.008 ms

Remote clock offset: 21.36 ms

Below is generated by plot.py at 2018-02-05 03:18:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.42 Mbit/s

95th percentile per-packet one-way delay: 238.134 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 48.16 Mbit/s

95th percentile per-packet one-way delay: 237.192 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 29.14 Mbit/s

95th percentile per-packet one-way delay: 238.583 ms

Loss rate: 2.59%

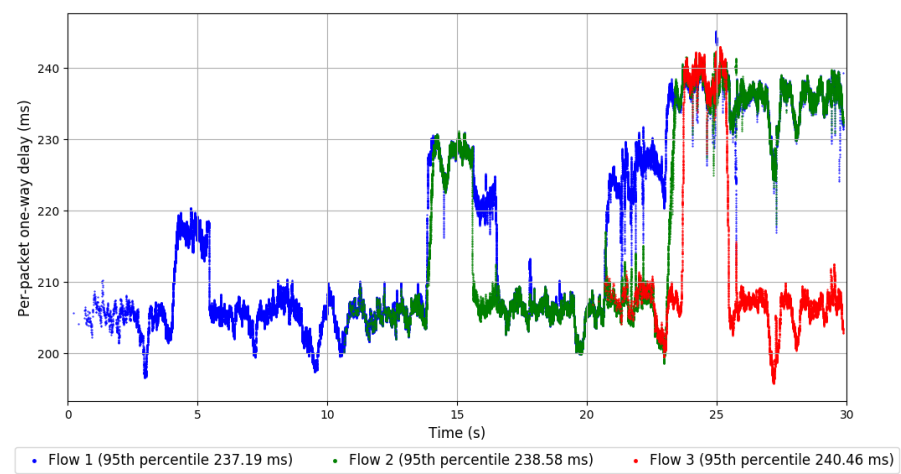
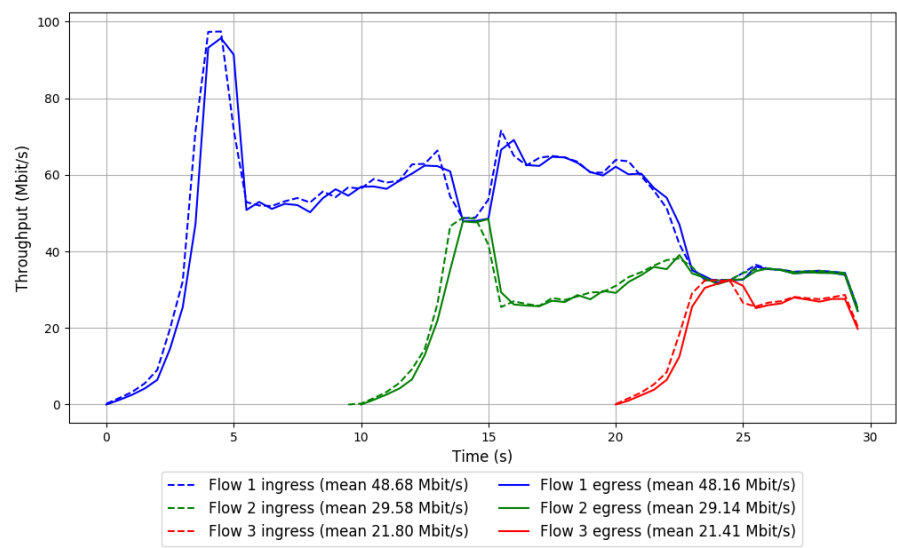
-- Flow 3:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 240.463 ms

Loss rate: 3.99%

Run 2: Report of Vivace-LTE — Data Link

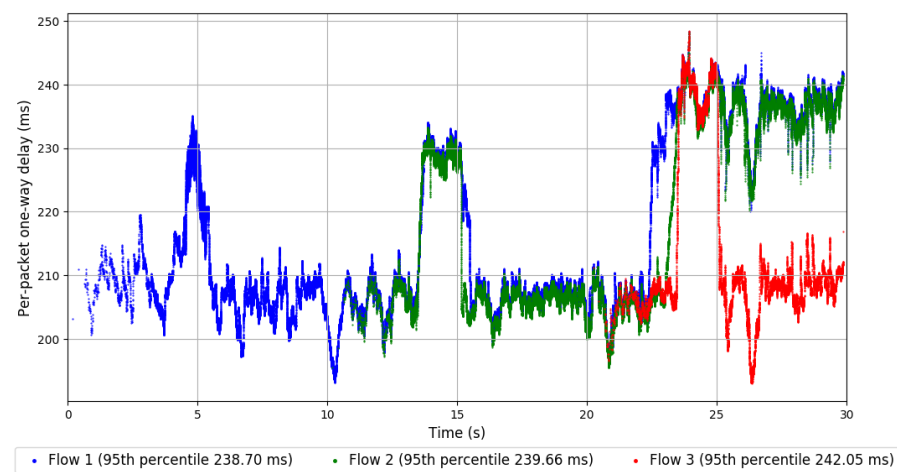
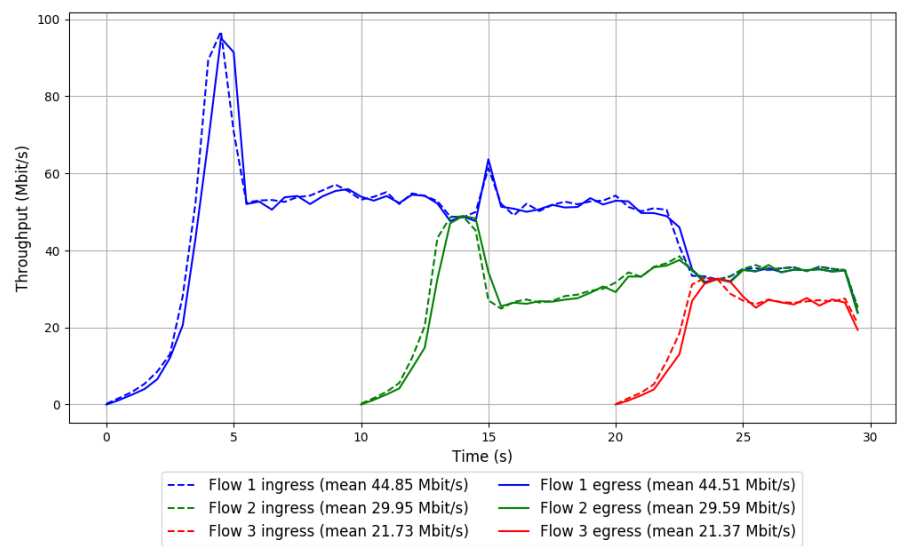


Run 3: Statistics of Vivace-LTE

Start at: 2018-02-04 19:18:36
End at: 2018-02-04 19:19:06
Local clock offset: 0.881 ms
Remote clock offset: 19.401 ms

Below is generated by plot.py at 2018-02-05 03:18:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.05 Mbit/s
95th percentile per-packet one-way delay: 239.392 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 44.51 Mbit/s
95th percentile per-packet one-way delay: 238.700 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 239.661 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 242.047 ms
Loss rate: 3.84%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-04 19:54:21

End at: 2018-02-04 19:54:51

Local clock offset: 3.179 ms

Remote clock offset: 3.0 ms

Below is generated by plot.py at 2018-02-05 03:18:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.66 Mbit/s

95th percentile per-packet one-way delay: 250.935 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 251.363 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 253.840 ms

Loss rate: 1.77%

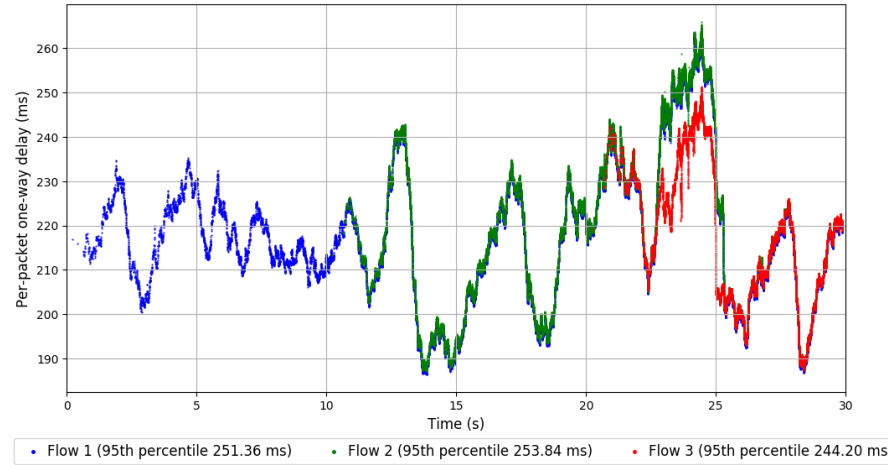
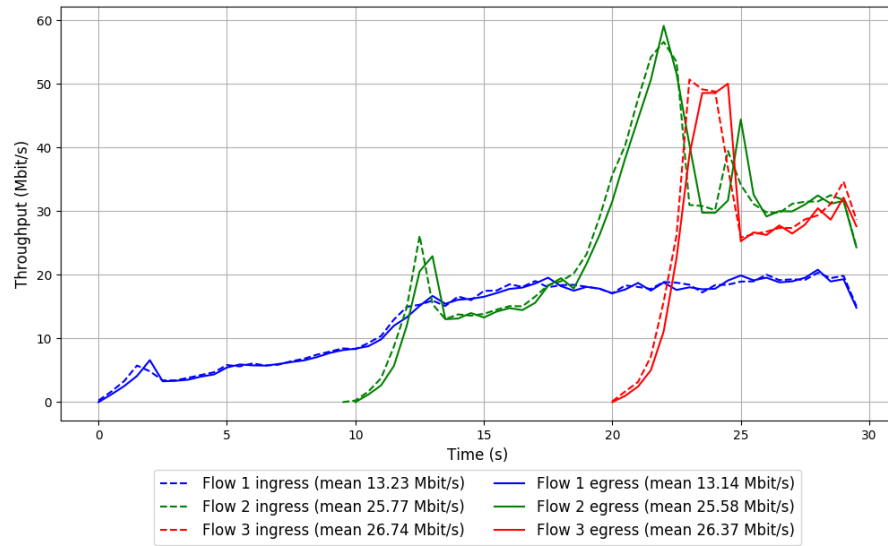
-- Flow 3:

Average throughput: 26.37 Mbit/s

95th percentile per-packet one-way delay: 244.196 ms

Loss rate: 3.50%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-04 20:22:38

End at: 2018-02-04 20:23:08

Local clock offset: 2.43 ms

Remote clock offset: 3.096 ms

Below is generated by plot.py at 2018-02-05 03:19:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 246.108 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 242.753 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 28.71 Mbit/s

95th percentile per-packet one-way delay: 248.465 ms

Loss rate: 1.47%

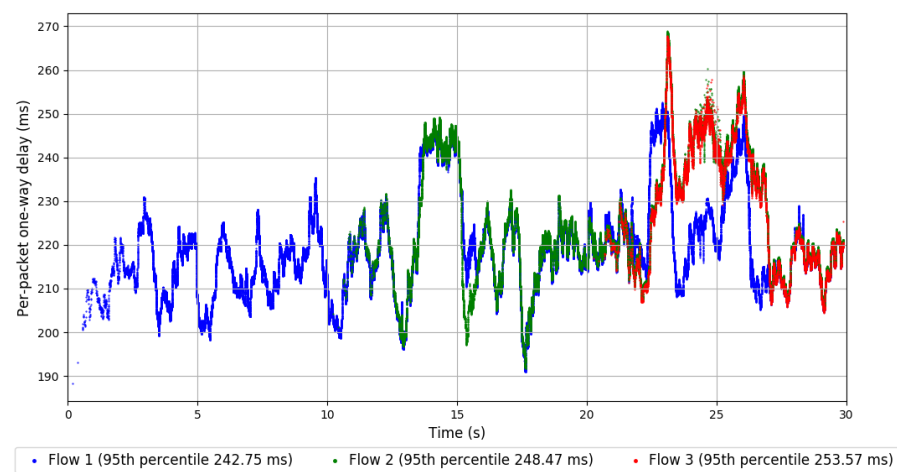
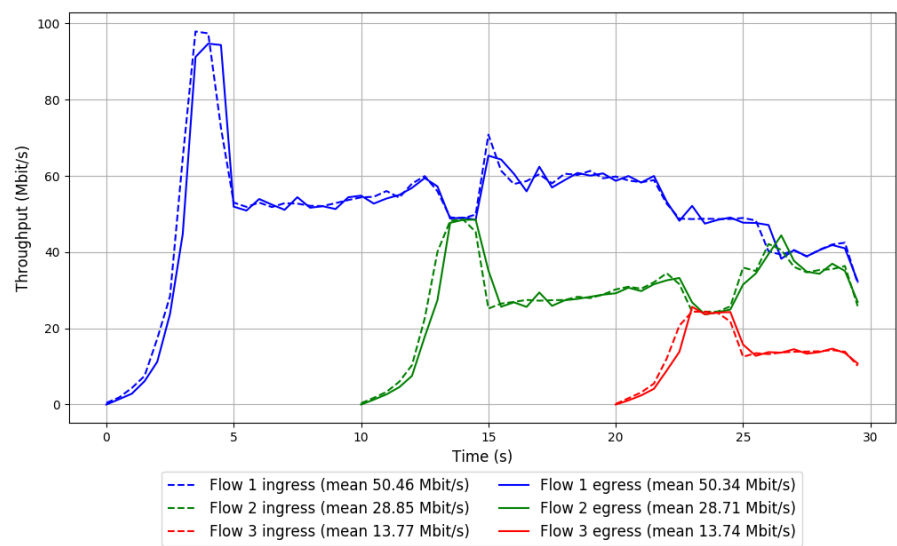
-- Flow 3:

Average throughput: 13.74 Mbit/s

95th percentile per-packet one-way delay: 253.569 ms

Loss rate: 2.30%

Run 5: Report of Vivace-LTE — Data Link

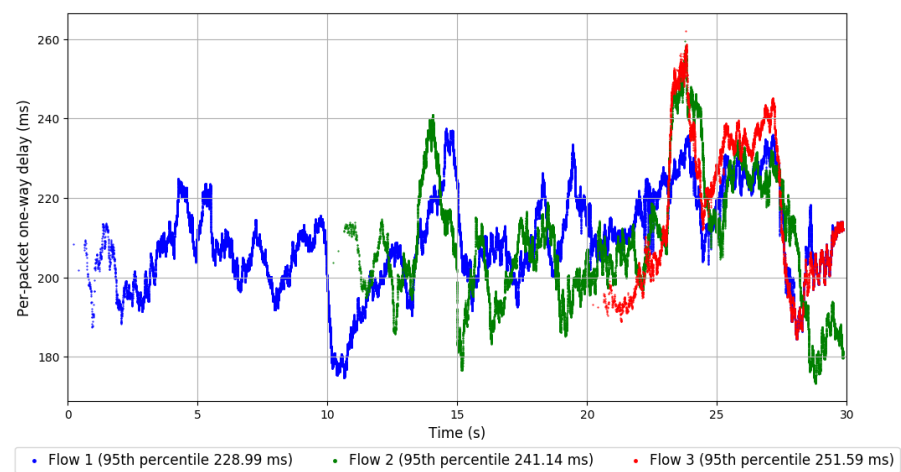
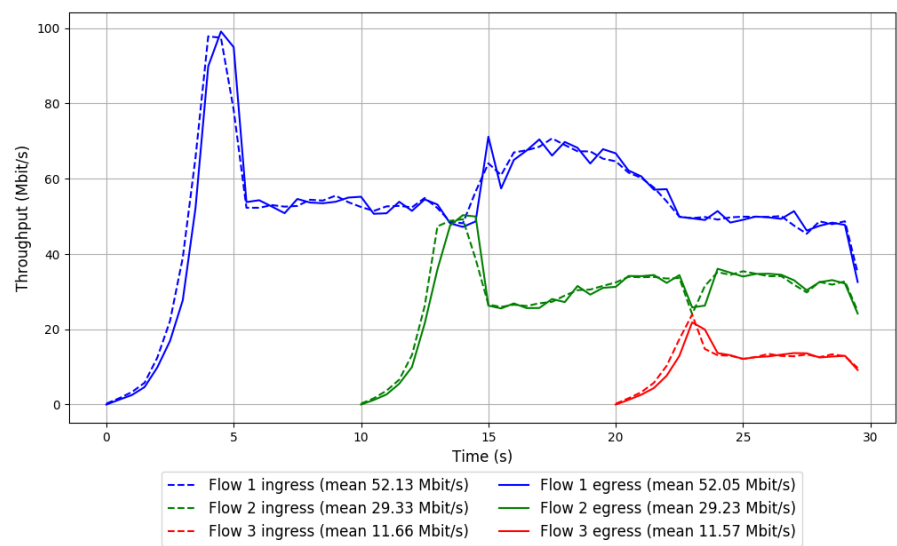


Run 6: Statistics of Vivace-LTE

Start at: 2018-02-04 20:53:27
End at: 2018-02-04 20:53:57
Local clock offset: 2.69 ms
Remote clock offset: 16.041 ms

Below is generated by plot.py at 2018-02-05 03:19:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.18 Mbit/s
95th percentile per-packet one-way delay: 233.741 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 52.05 Mbit/s
95th percentile per-packet one-way delay: 228.989 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 241.136 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 251.590 ms
Loss rate: 2.76%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-04 21:24:57

End at: 2018-02-04 21:25:27

Local clock offset: 3.28 ms

Remote clock offset: 4.469 ms

Below is generated by plot.py at 2018-02-05 03:19:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.29 Mbit/s

95th percentile per-packet one-way delay: 244.899 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 244.634 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 233.345 ms

Loss rate: 1.20%

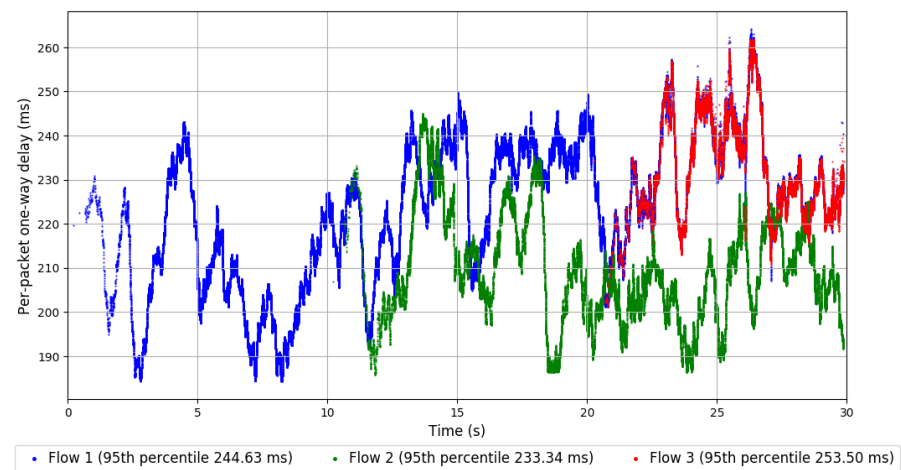
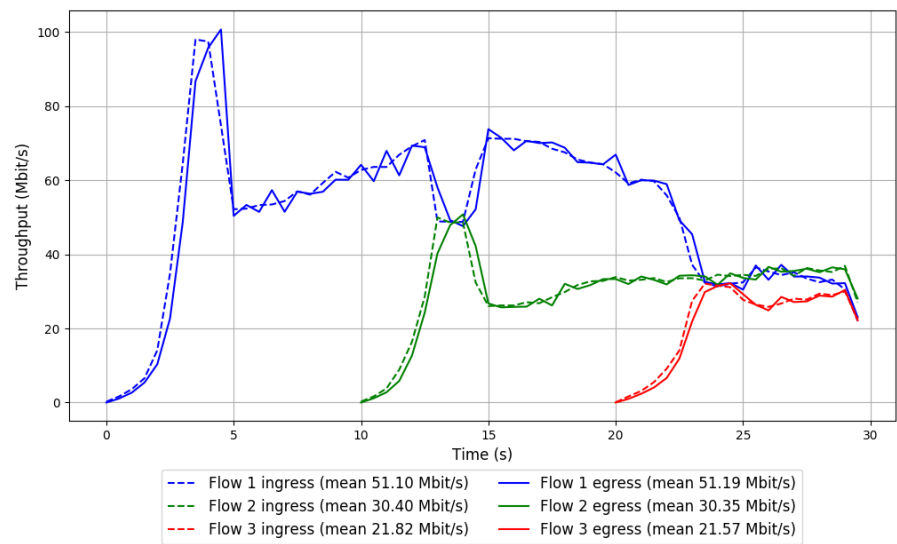
-- Flow 3:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 253.505 ms

Loss rate: 3.38%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

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

End at: 2018-02-04 21:56:33

Local clock offset: 2.536 ms

Remote clock offset: 3.121 ms

Below is generated by plot.py at 2018-02-05 03:19:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.93 Mbit/s

95th percentile per-packet one-way delay: 250.405 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 248.311 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 33.81 Mbit/s

95th percentile per-packet one-way delay: 235.050 ms

Loss rate: 1.30%

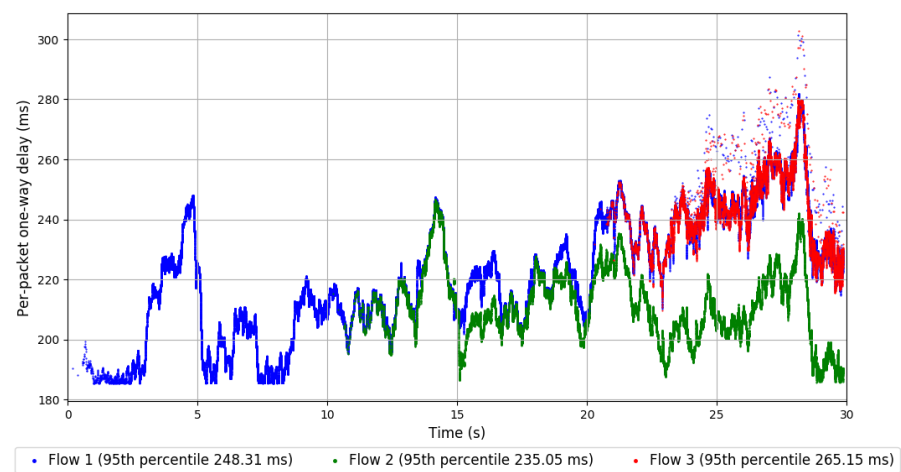
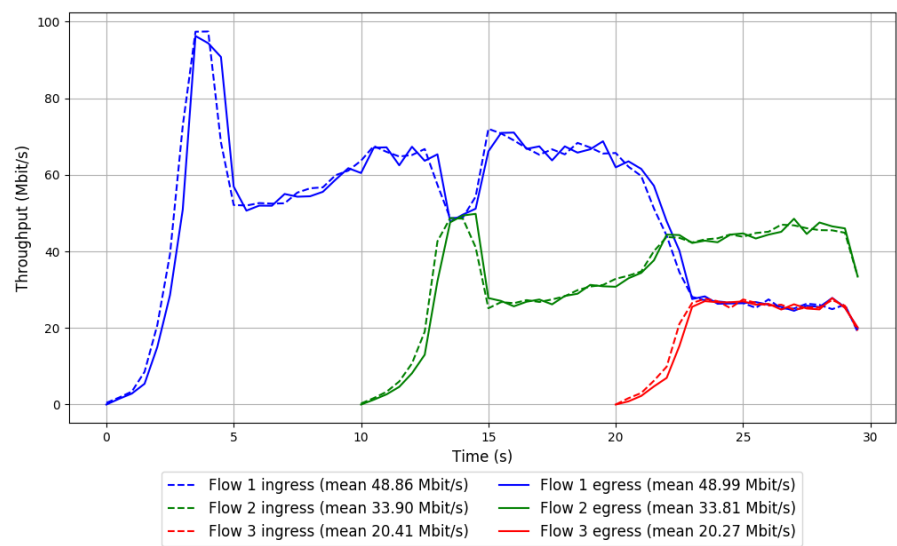
-- Flow 3:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 265.154 ms

Loss rate: 3.12%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-04 22:21:29

End at: 2018-02-04 22:21:59

Local clock offset: 3.098 ms

Remote clock offset: 1.8 ms

Below is generated by plot.py at 2018-02-05 03:19:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 222.450 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 222.346 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 30.30 Mbit/s

95th percentile per-packet one-way delay: 229.726 ms

Loss rate: 1.21%

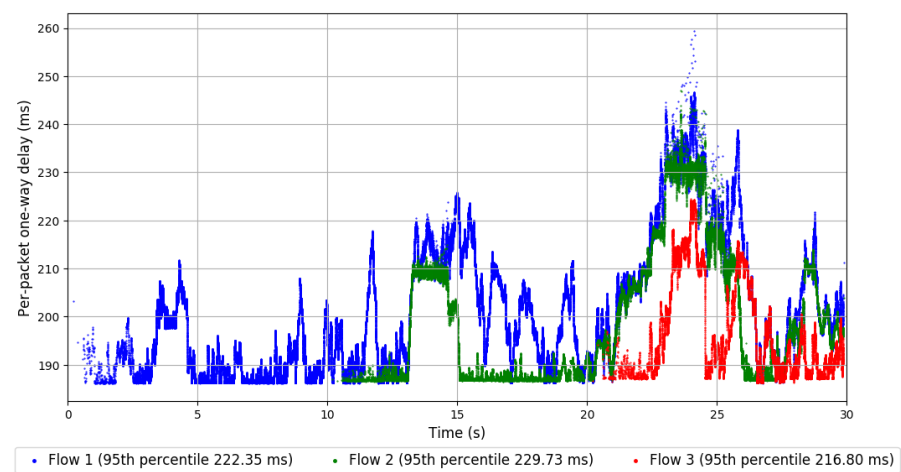
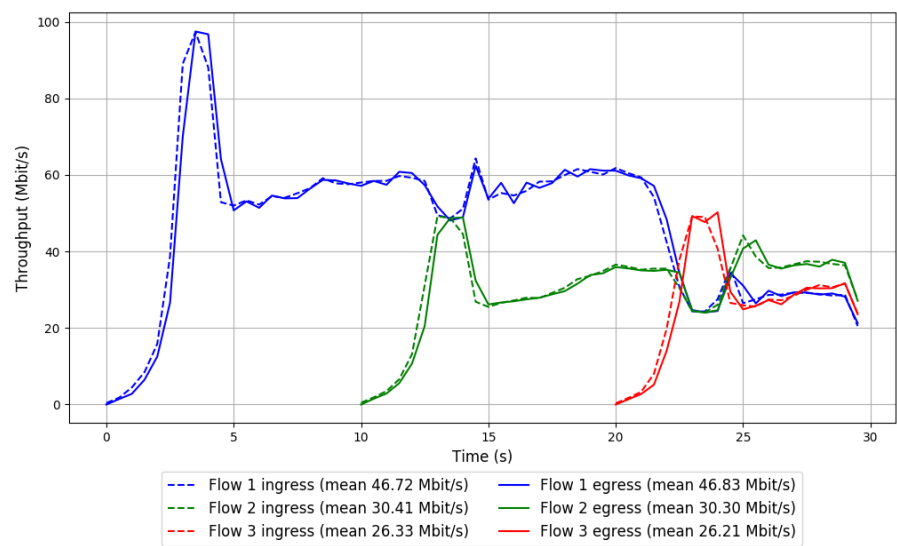
-- Flow 3:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 216.802 ms

Loss rate: 2.32%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-04 22:46:26

End at: 2018-02-04 22:46:56

Local clock offset: 1.247 ms

Remote clock offset: 7.206 ms

Below is generated by plot.py at 2018-02-05 03:19:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.31 Mbit/s

95th percentile per-packet one-way delay: 218.761 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 217.417 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 219.009 ms

Loss rate: 1.15%

-- Flow 3:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 220.152 ms

Loss rate: 2.40%

Run 10: Report of Vivace-LTE — Data Link

