

Pantheon Report

Generated at 2017-11-16 13:59:45 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

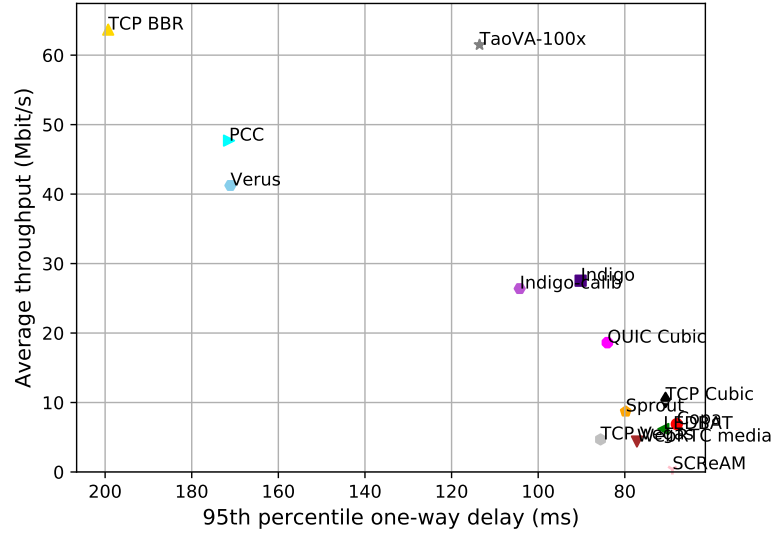
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

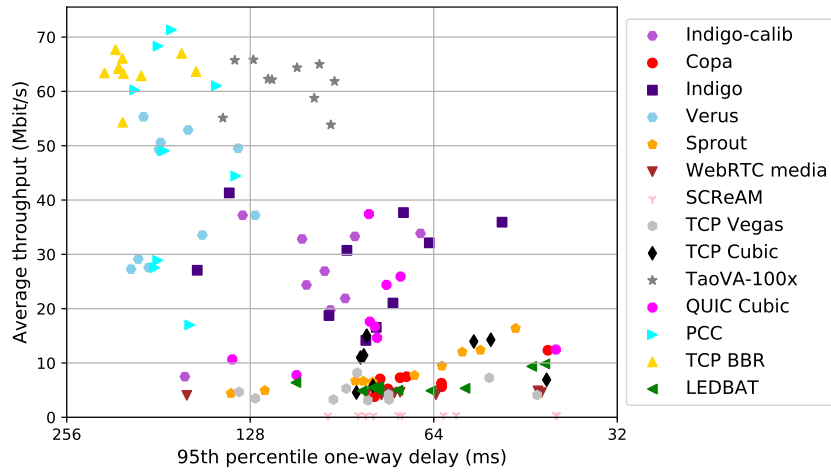
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



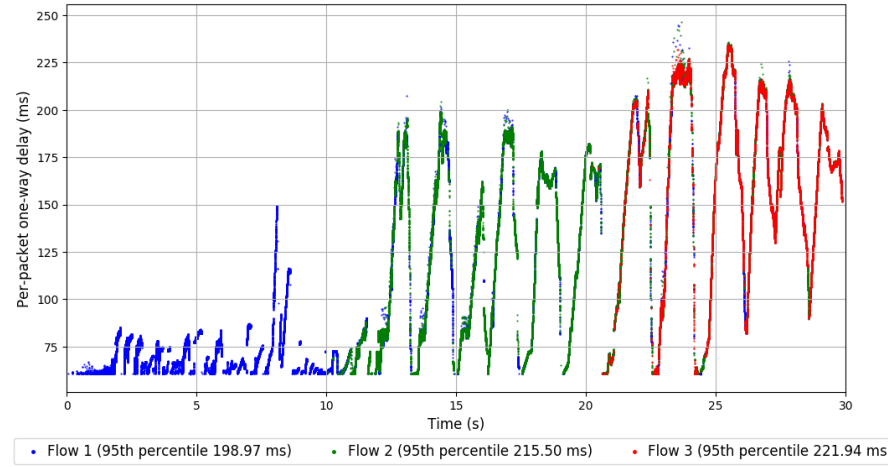
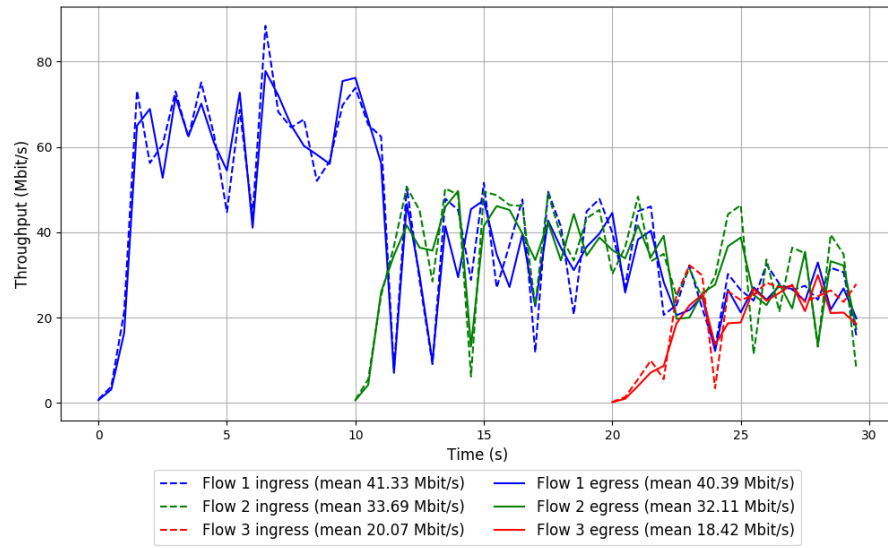
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	39.20	27.81	18.49	191.64	201.53	209.06	4.10	7.18	11.62
TCP Cubic	8	4.25	6.03	5.97	67.25	71.81	67.81	0.71	0.70	1.06
LEDBAT	10	3.28	3.13	2.60	69.81	72.21	71.98	0.66	1.13	2.13
PCC	10	24.37	28.22	14.16	167.95	171.74	166.70	4.10	6.29	8.11
QUIC Cubic	9	21.95	12.17	14.50	74.08	90.24	80.86	3.16	0.75	1.53
SCReAM	10	0.20	0.19	0.22	71.22	64.07	68.82	0.50	0.96	1.50
WebRTC media	10	2.46	1.45	0.48	77.04	77.29	77.49	0.92	0.86	2.69
Sprout	10	4.46	4.50	3.89	78.95	80.49	78.81	0.96	1.26	2.18
TaoVA-100x	10	33.64	27.96	36.84	105.99	118.62	116.90	0.47	1.01	2.85
TCP Vegas	10	2.21	2.45	2.62	84.62	76.88	84.34	0.59	0.67	1.35
Verus	10	23.97	19.07	14.25	162.85	176.87	178.17	2.66	3.25	4.27
Copa	8	3.22	3.92	4.33	68.02	67.76	67.68	0.52	0.99	1.96
Indigo	10	14.63	11.33	16.71	83.94	78.43	80.05	0.53	0.68	1.37
Indigo-calib	9	9.89	13.86	22.26	89.87	100.59	103.52	0.25	0.63	0.85

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 07:27:05
End at: 2017-11-16 07:27:35
Local clock offset: -0.106 ms
Remote clock offset: -19.396 ms

Below is generated by plot.py at 2017-11-16 13:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.67 Mbit/s
95th percentile per-packet one-way delay: 212.967 ms
Loss rate: 4.32%
-- Flow 1:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 198.972 ms
Loss rate: 2.85%
-- Flow 2:
Average throughput: 32.11 Mbit/s
95th percentile per-packet one-way delay: 215.495 ms
Loss rate: 5.10%
-- Flow 3:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 221.936 ms
Loss rate: 10.80%

Run 1: Report of TCP BBR — Data Link

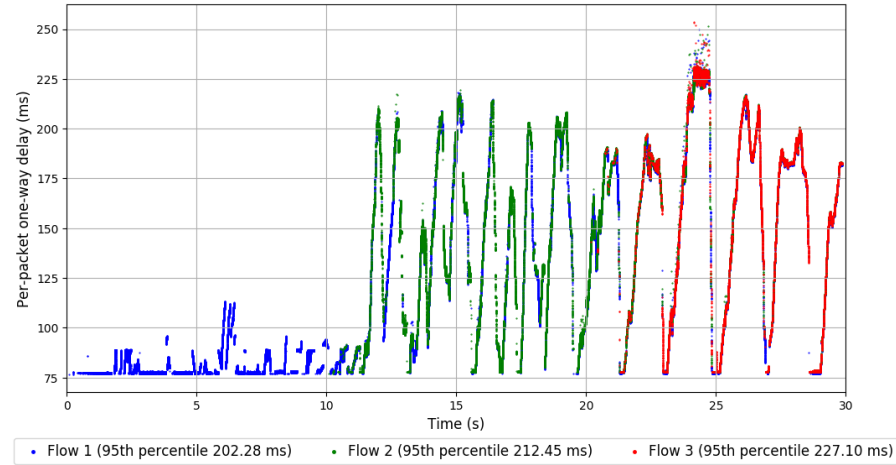
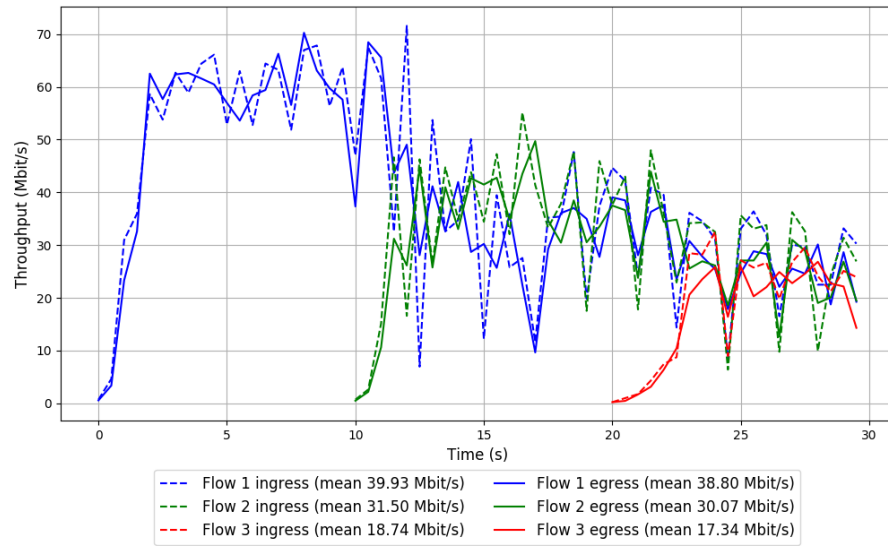


Run 2: Statistics of TCP BBR

Start at: 2017-11-16 07:47:08
End at: 2017-11-16 07:47:38
Local clock offset: 0.193 ms
Remote clock offset: -35.203 ms

Below is generated by plot.py at 2017-11-16 13:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.38 Mbit/s
95th percentile per-packet one-way delay: 210.302 ms
Loss rate: 4.64%
-- Flow 1:
Average throughput: 38.80 Mbit/s
95th percentile per-packet one-way delay: 202.275 ms
Loss rate: 3.43%
-- Flow 2:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 212.452 ms
Loss rate: 5.42%
-- Flow 3:
Average throughput: 17.34 Mbit/s
95th percentile per-packet one-way delay: 227.102 ms
Loss rate: 9.82%

Run 2: Report of TCP BBR — Data Link

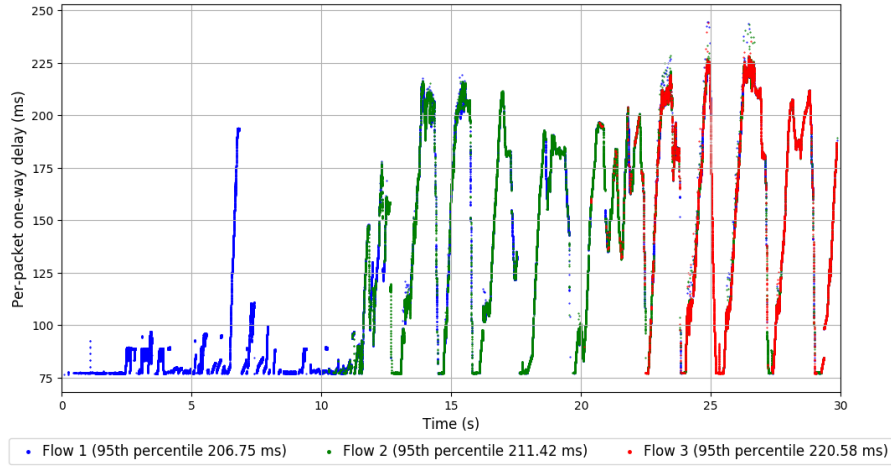
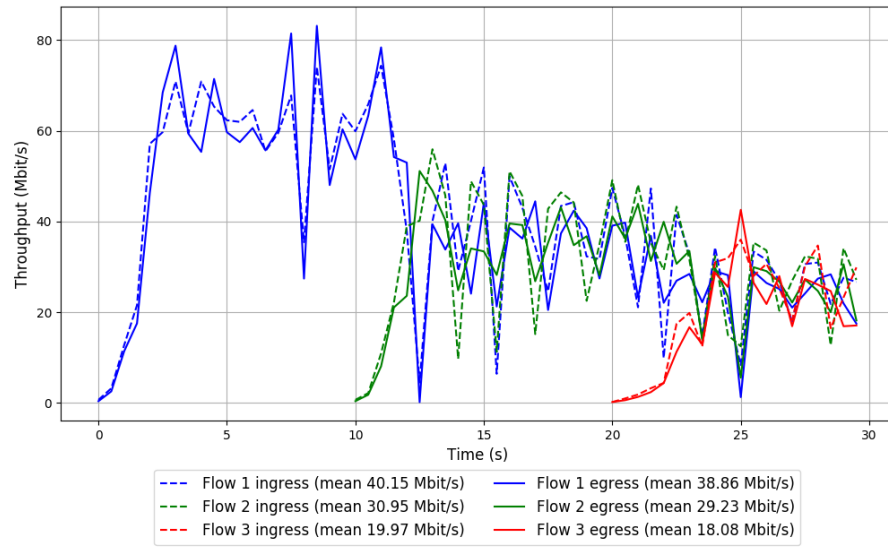


Run 3: Statistics of TCP BBR

Start at: 2017-11-16 08:06:47
End at: 2017-11-16 08:07:17
Local clock offset: 0.29 ms
Remote clock offset: -33.862 ms

Below is generated by plot.py at 2017-11-16 13:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.18 Mbit/s
95th percentile per-packet one-way delay: 210.383 ms
Loss rate: 5.27%
-- Flow 1:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 206.750 ms
Loss rate: 3.75%
-- Flow 2:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 211.423 ms
Loss rate: 6.35%
-- Flow 3:
Average throughput: 18.08 Mbit/s
95th percentile per-packet one-way delay: 220.576 ms
Loss rate: 11.16%

Run 3: Report of TCP BBR — Data Link

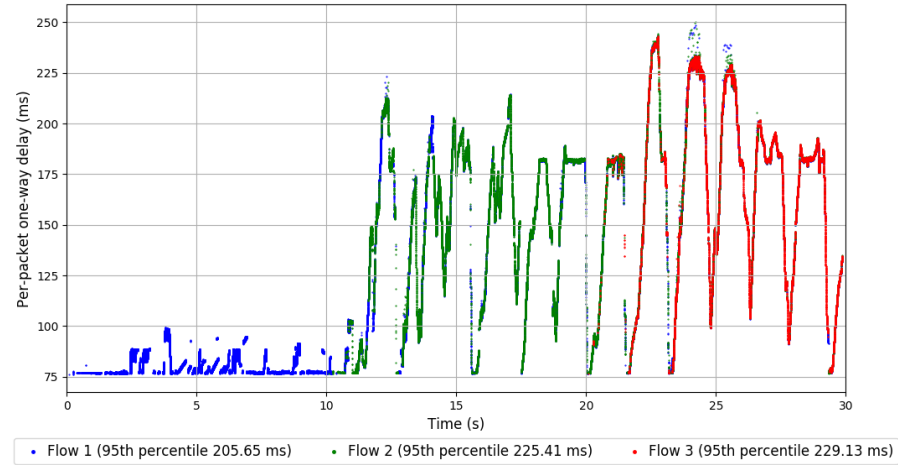
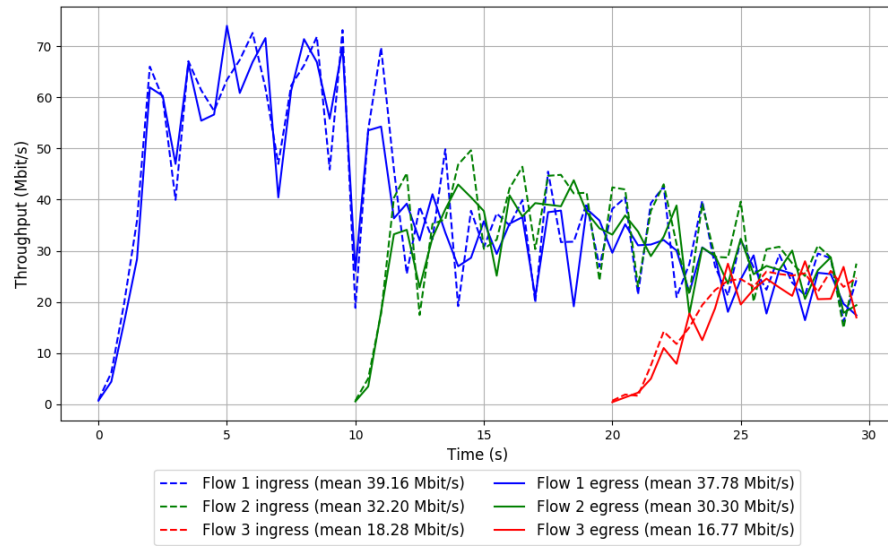


Run 4: Statistics of TCP BBR

Start at: 2017-11-16 08:26:45
End at: 2017-11-16 08:27:15
Local clock offset: 0.268 ms
Remote clock offset: -33.364 ms

Below is generated by plot.py at 2017-11-16 13:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.40 Mbit/s
95th percentile per-packet one-way delay: 221.870 ms
Loss rate: 5.48%
-- Flow 1:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 205.651 ms
Loss rate: 4.10%
-- Flow 2:
Average throughput: 30.30 Mbit/s
95th percentile per-packet one-way delay: 225.415 ms
Loss rate: 6.74%
-- Flow 3:
Average throughput: 16.77 Mbit/s
95th percentile per-packet one-way delay: 229.129 ms
Loss rate: 9.93%

Run 4: Report of TCP BBR — Data Link

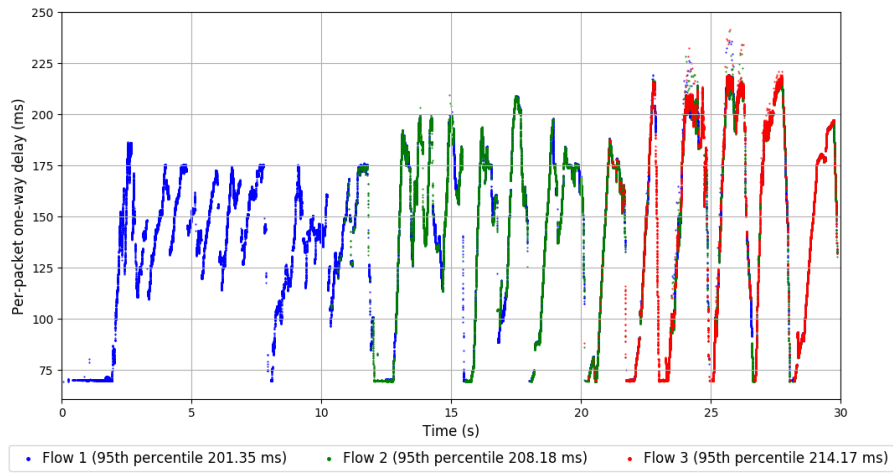
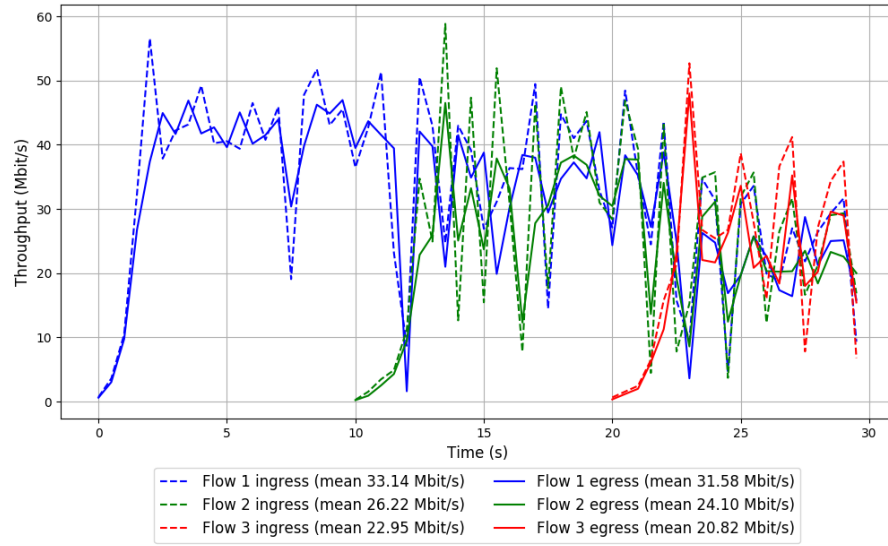


Run 5: Statistics of TCP BBR

Start at: 2017-11-16 08:47:16
End at: 2017-11-16 08:47:46
Local clock offset: 0.535 ms
Remote clock offset: -25.238 ms

Below is generated by plot.py at 2017-11-16 13:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.31 Mbit/s
95th percentile per-packet one-way delay: 207.258 ms
Loss rate: 6.98%
-- Flow 1:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 201.355 ms
Loss rate: 5.01%
-- Flow 2:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 208.182 ms
Loss rate: 9.09%
-- Flow 3:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 214.166 ms
Loss rate: 10.73%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 09:07:37

End at: 2017-11-16 09:08:07

Local clock offset: 0.736 ms

Remote clock offset: 4.329 ms

Below is generated by plot.py at 2017-11-16 13:52:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 157.035 ms

Loss rate: 4.68%

-- Flow 1:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 151.294 ms

Loss rate: 3.61%

-- Flow 2:

Average throughput: 26.81 Mbit/s

95th percentile per-packet one-way delay: 162.010 ms

Loss rate: 5.46%

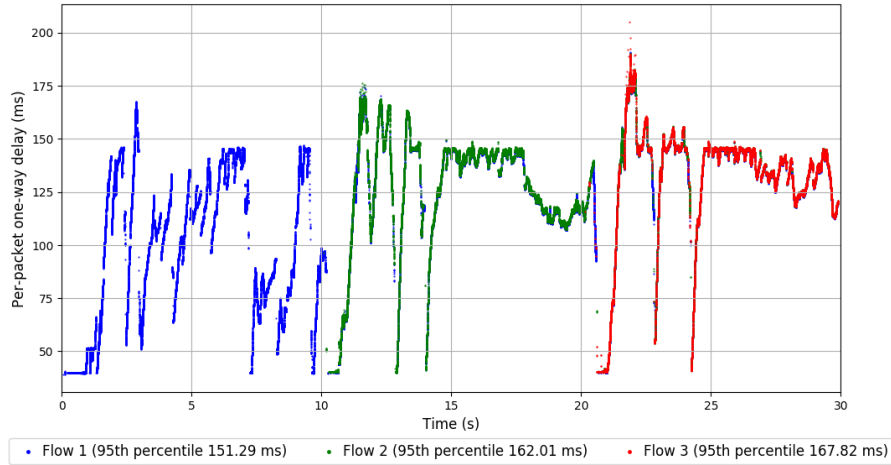
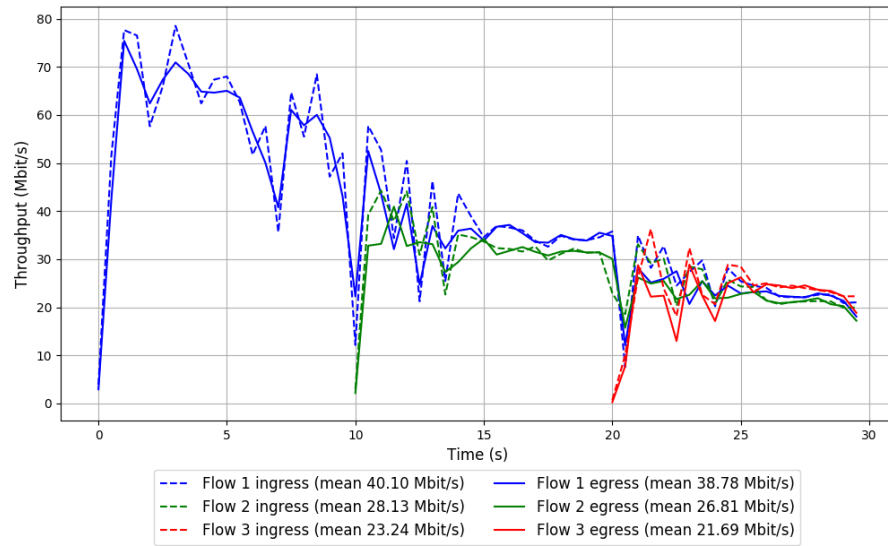
-- Flow 3:

Average throughput: 21.69 Mbit/s

95th percentile per-packet one-way delay: 167.819 ms

Loss rate: 8.32%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-16 09:26:29

End at: 2017-11-16 09:26:59

Local clock offset: 1.133 ms

Remote clock offset: 4.893 ms

Below is generated by plot.py at 2017-11-16 13:52:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 165.887 ms

Loss rate: 6.99%

-- Flow 1:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 163.504 ms

Loss rate: 5.52%

-- Flow 2:

Average throughput: 28.31 Mbit/s

95th percentile per-packet one-way delay: 167.609 ms

Loss rate: 8.53%

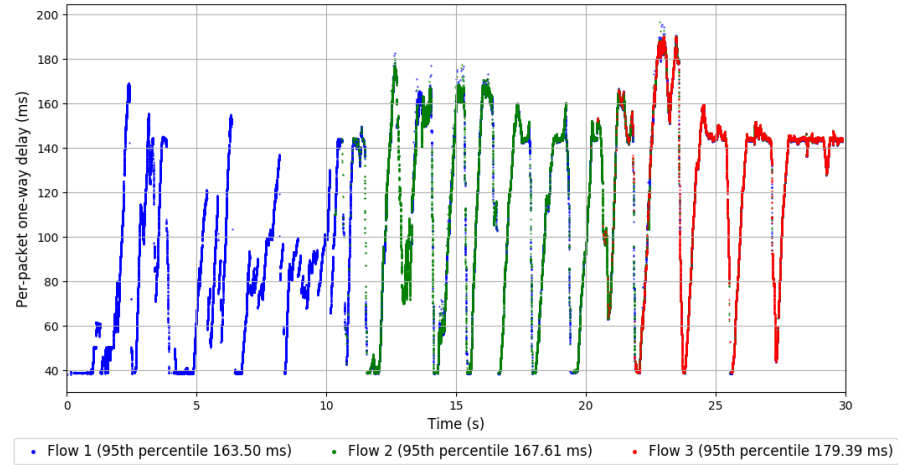
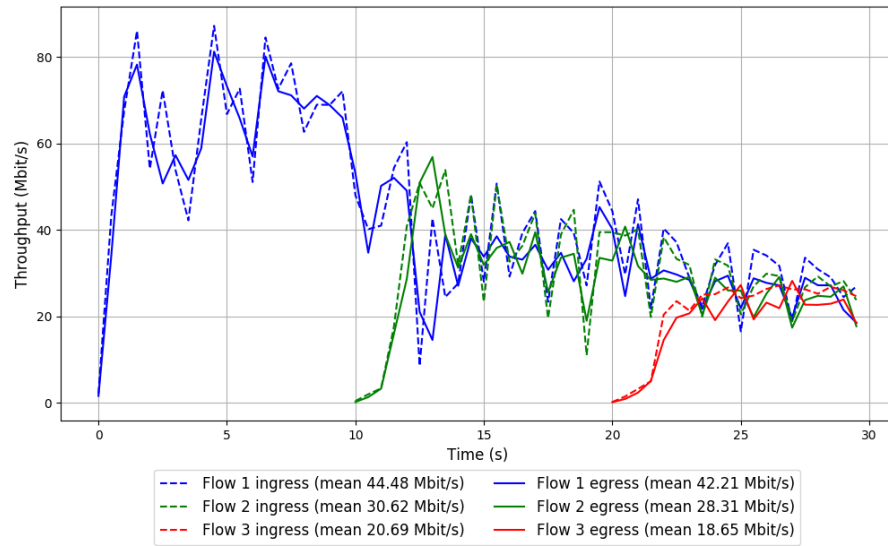
-- Flow 3:

Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 179.392 ms

Loss rate: 11.96%

Run 7: Report of TCP BBR — Data Link

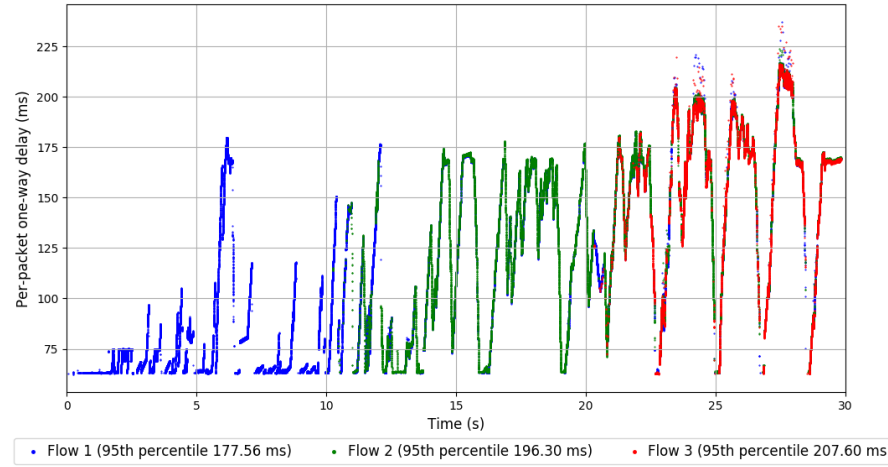
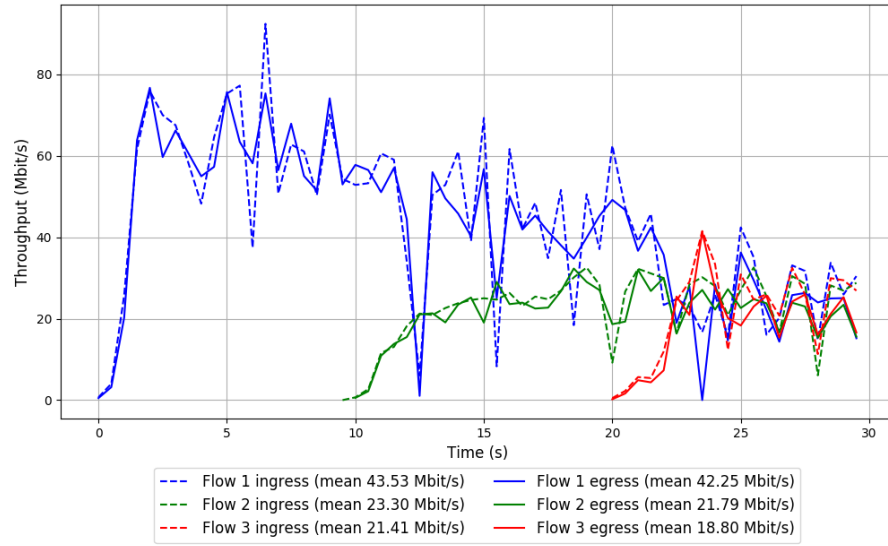


Run 8: Statistics of TCP BBR

Start at: 2017-11-16 09:45:56
End at: 2017-11-16 09:46:26
Local clock offset: 1.457 ms
Remote clock offset: -19.923 ms

Below is generated by plot.py at 2017-11-16 13:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 193.190 ms
Loss rate: 5.54%
-- Flow 1:
Average throughput: 42.25 Mbit/s
95th percentile per-packet one-way delay: 177.564 ms
Loss rate: 3.51%
-- Flow 2:
Average throughput: 21.79 Mbit/s
95th percentile per-packet one-way delay: 196.304 ms
Loss rate: 7.33%
-- Flow 3:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 207.603 ms
Loss rate: 14.06%

Run 8: Report of TCP BBR — Data Link

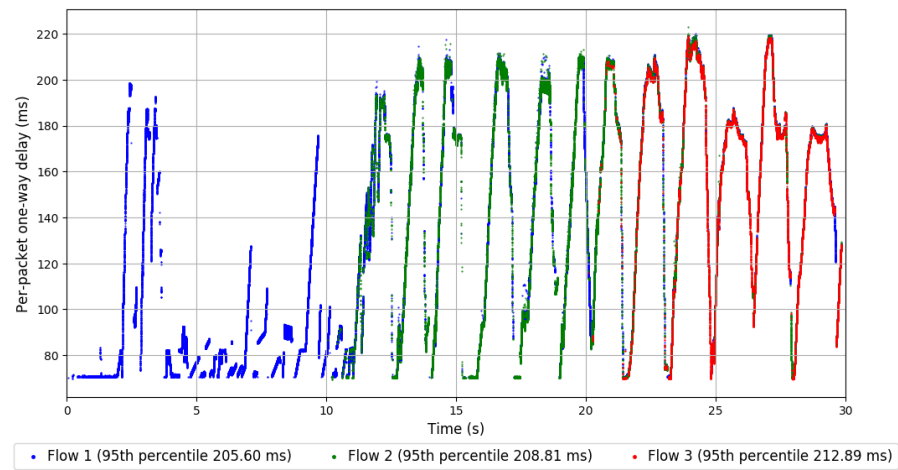
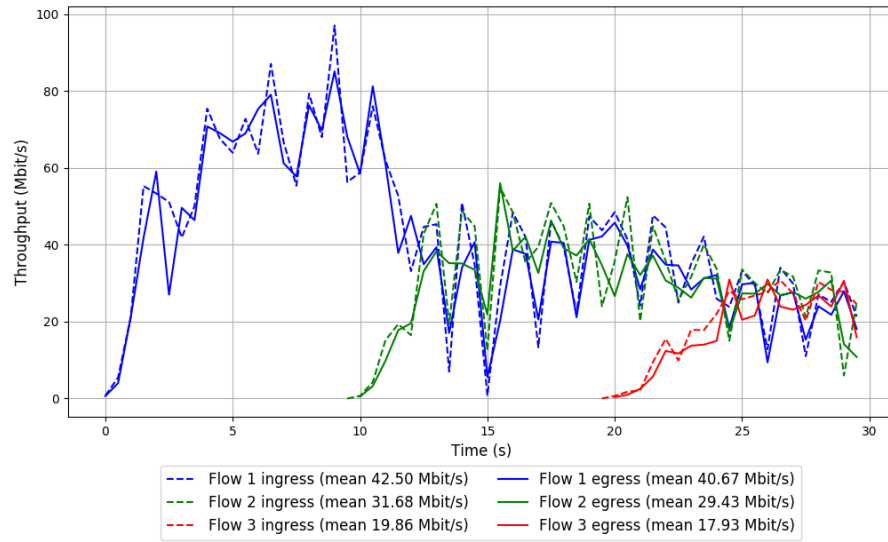


Run 9: Statistics of TCP BBR

Start at: 2017-11-16 10:05:27
End at: 2017-11-16 10:05:57
Local clock offset: 1.353 ms
Remote clock offset: -29.127 ms

Below is generated by plot.py at 2017-11-16 13:53:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.08 Mbit/s
95th percentile per-packet one-way delay: 207.425 ms
Loss rate: 6.35%
-- Flow 1:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 205.596 ms
Loss rate: 4.77%
-- Flow 2:
Average throughput: 29.43 Mbit/s
95th percentile per-packet one-way delay: 208.811 ms
Loss rate: 7.88%
-- Flow 3:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 212.889 ms
Loss rate: 11.58%

Run 9: Report of TCP BBR — Data Link

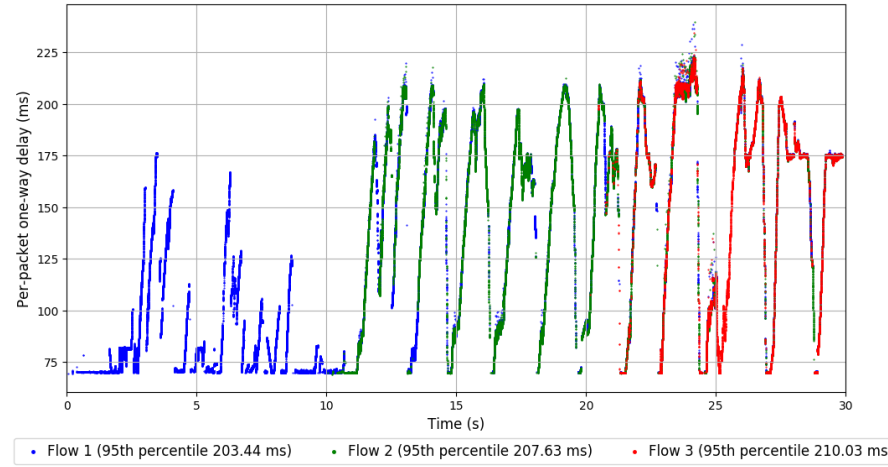
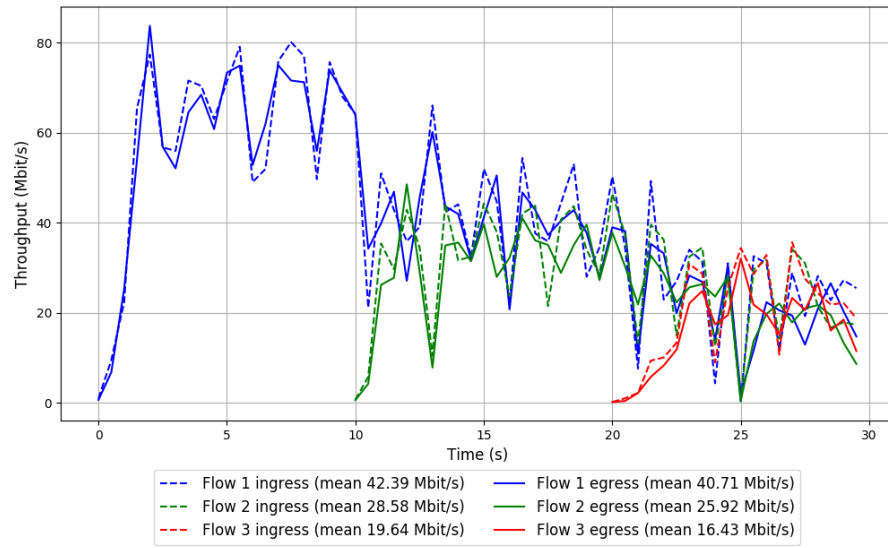


Run 10: Statistics of TCP BBR

Start at: 2017-11-16 10:24:42
End at: 2017-11-16 10:25:12
Local clock offset: 1.677 ms
Remote clock offset: -30.814 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.27 Mbit/s
95th percentile per-packet one-way delay: 206.571 ms
Loss rate: 7.26%
-- Flow 1:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 203.439 ms
Loss rate: 4.43%
-- Flow 2:
Average throughput: 25.92 Mbit/s
95th percentile per-packet one-way delay: 207.630 ms
Loss rate: 9.95%
-- Flow 3:
Average throughput: 16.43 Mbit/s
95th percentile per-packet one-way delay: 210.026 ms
Loss rate: 17.88%

Run 10: Report of TCP BBR — Data Link

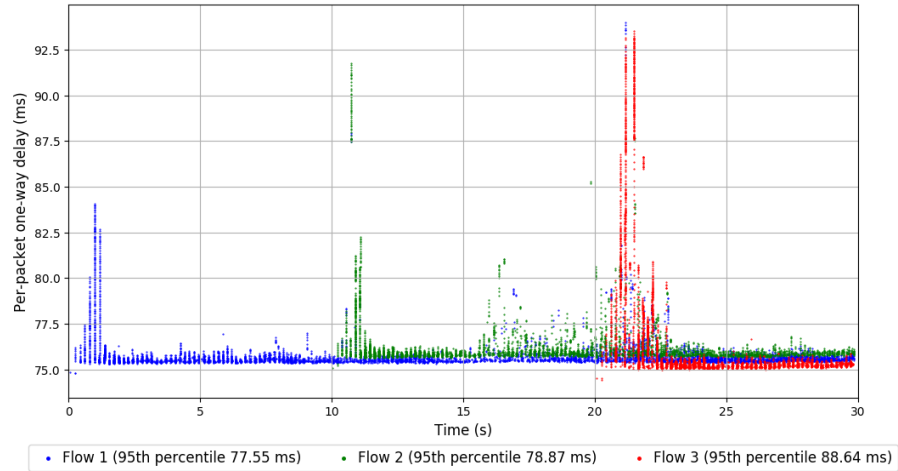
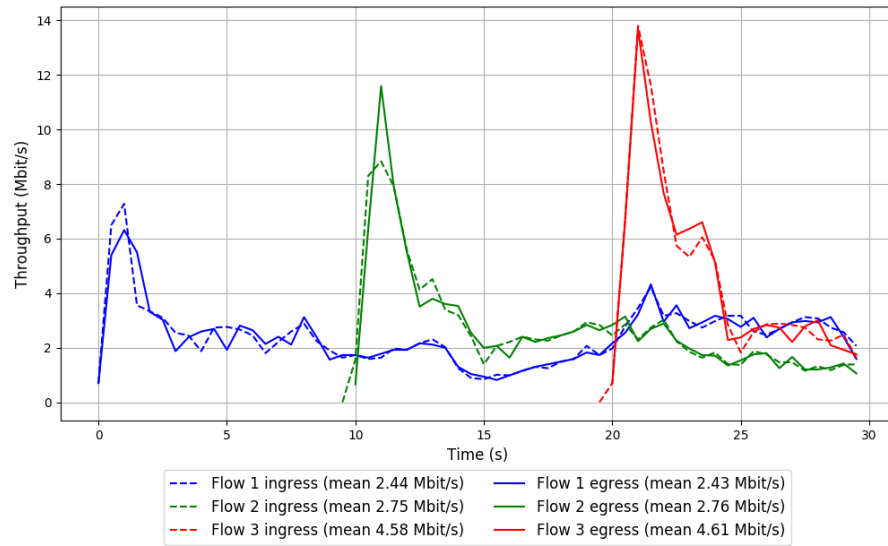


Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 07:28:40
End at: 2017-11-16 07:29:10
Local clock offset: -0.079 ms
Remote clock offset: -34.068 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 80.518 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 77.553 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 78.872 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 88.635 ms
Loss rate: 1.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

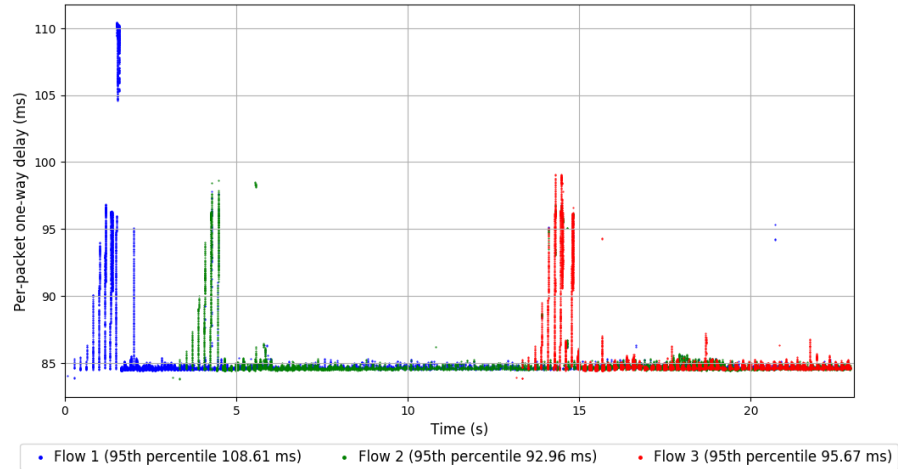
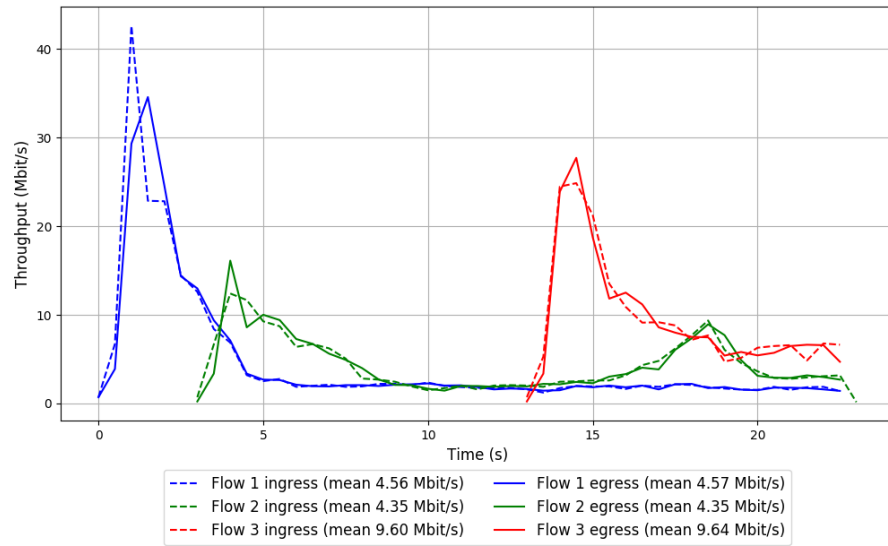
Start at: 2017-11-16 07:48:36

End at: 2017-11-16 07:49:06

Local clock offset: 0.073 ms

Remote clock offset: -42.012 ms

Run 2: Report of TCP Cubic — Data Link

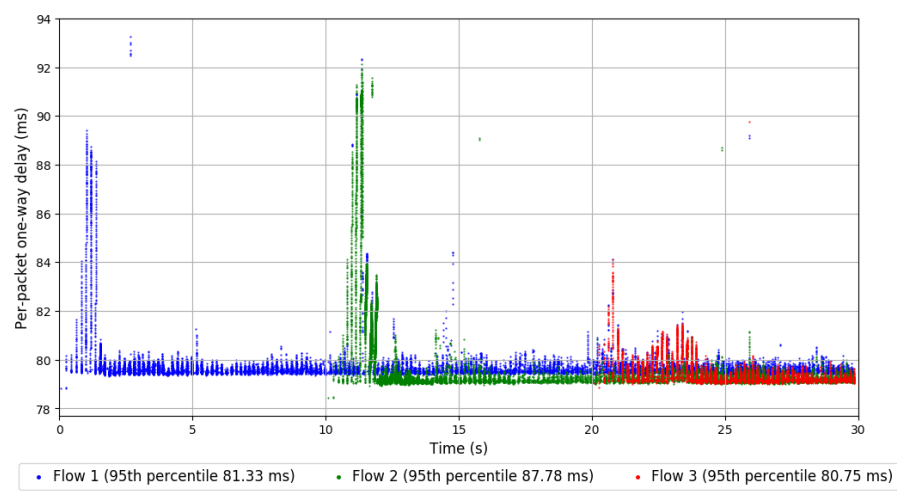
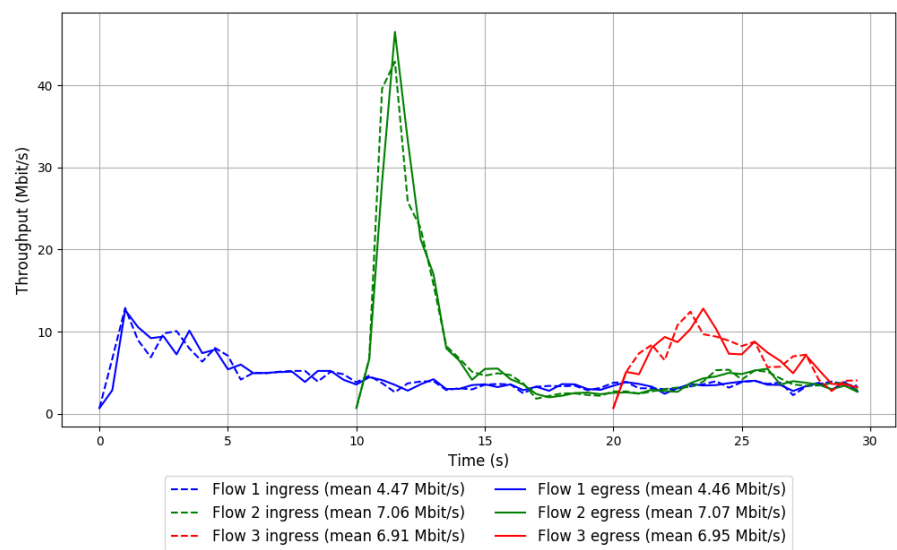


Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 08:08:30
End at: 2017-11-16 08:09:00
Local clock offset: 0.431 ms
Remote clock offset: -35.975 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 83.358 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 81.332 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 87.784 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 80.745 ms
Loss rate: 1.17%

Run 3: Report of TCP Cubic — Data Link

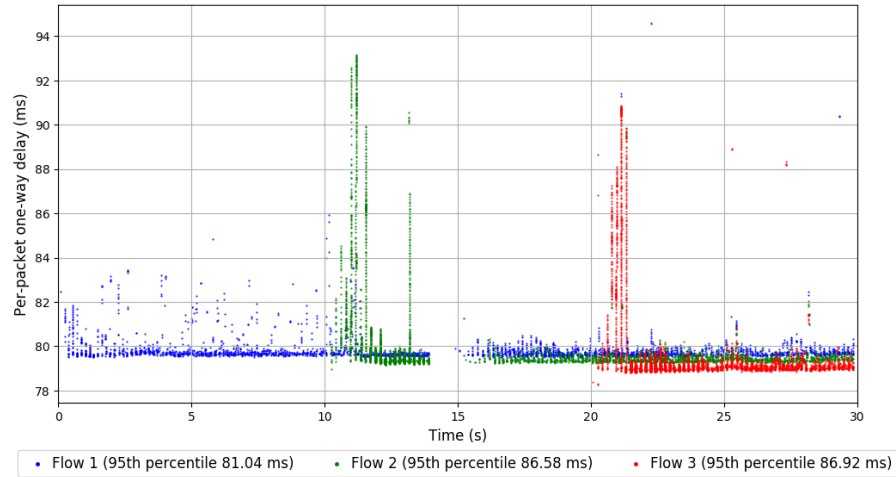
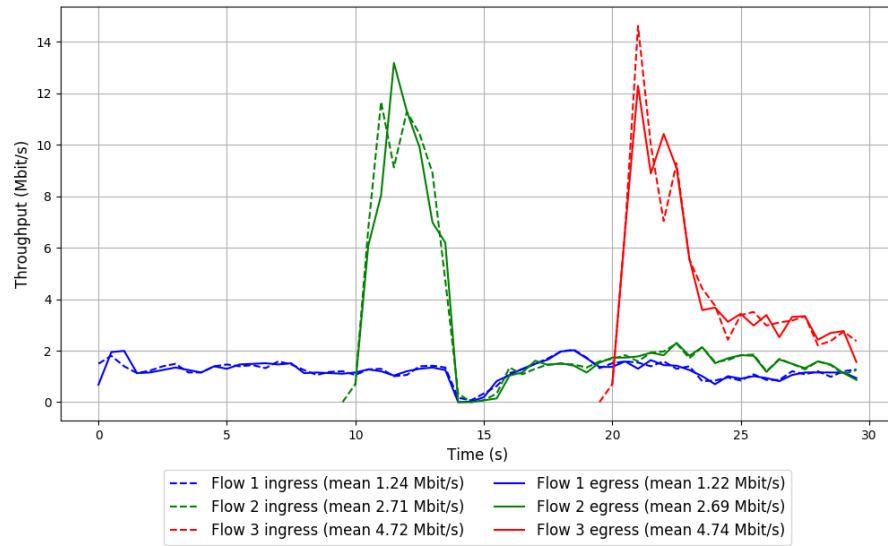


Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 08:28:39
End at: 2017-11-16 08:29:09
Local clock offset: 0.241 ms
Remote clock offset: -35.473 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 85.697 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 81.036 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 2.69 Mbit/s
95th percentile per-packet one-way delay: 86.579 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 86.917 ms
Loss rate: 1.31%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

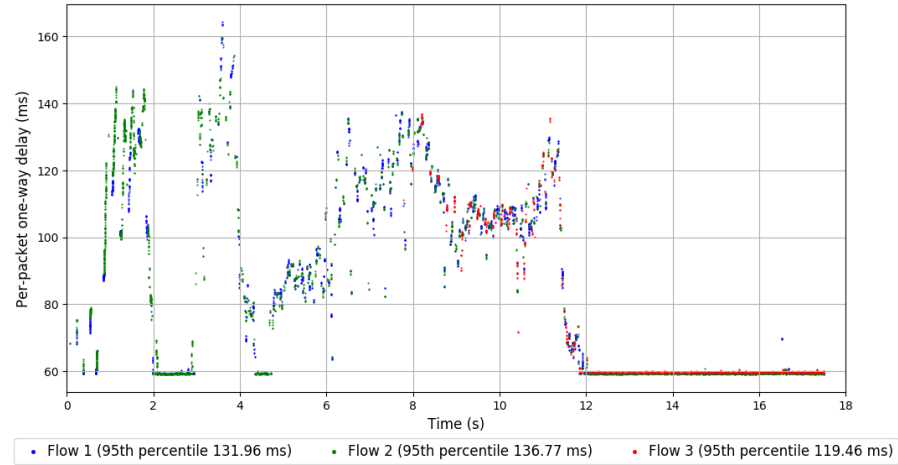
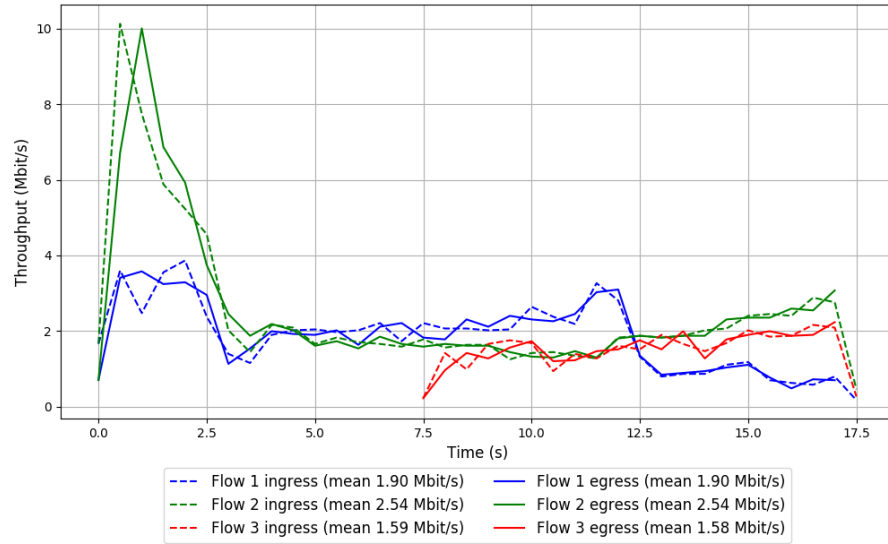
Start at: 2017-11-16 08:49:02

End at: 2017-11-16 08:49:32

Local clock offset: 0.635 ms

Remote clock offset: -14.988 ms

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 09:09:10

End at: 2017-11-16 09:09:40

Local clock offset: 0.903 ms

Remote clock offset: 3.849 ms

Below is generated by plot.py at 2017-11-16 13:53:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 41.781 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 41.922 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 41.615 ms

Loss rate: 0.56%

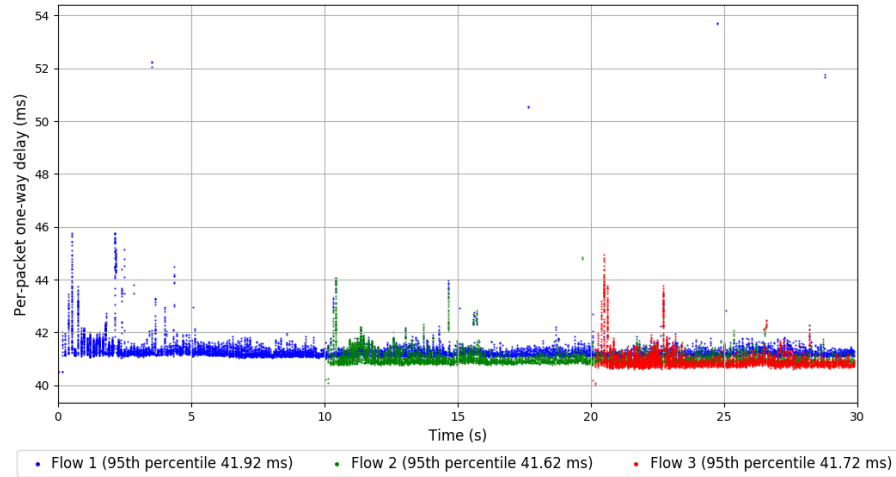
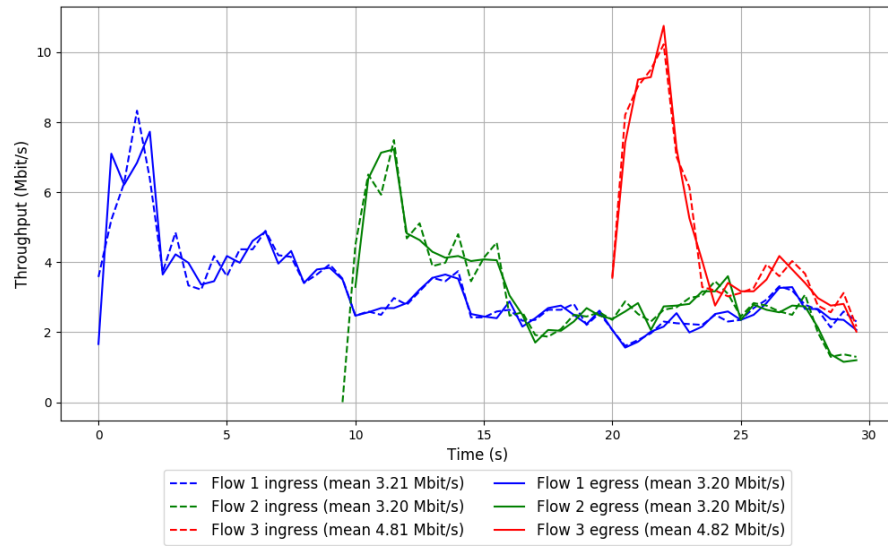
-- Flow 3:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 41.720 ms

Loss rate: 0.75%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 09:28:10

End at: 2017-11-16 09:28:40

Local clock offset: 1.046 ms

Remote clock offset: 1.621 ms

Below is generated by plot.py at 2017-11-16 13:53:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.28 Mbit/s

95th percentile per-packet one-way delay: 51.589 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 53.417 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 43.558 ms

Loss rate: 0.47%

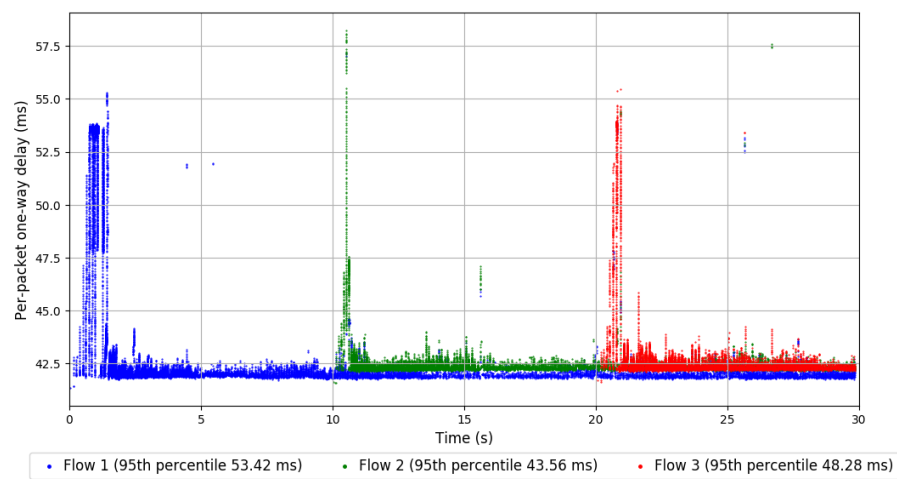
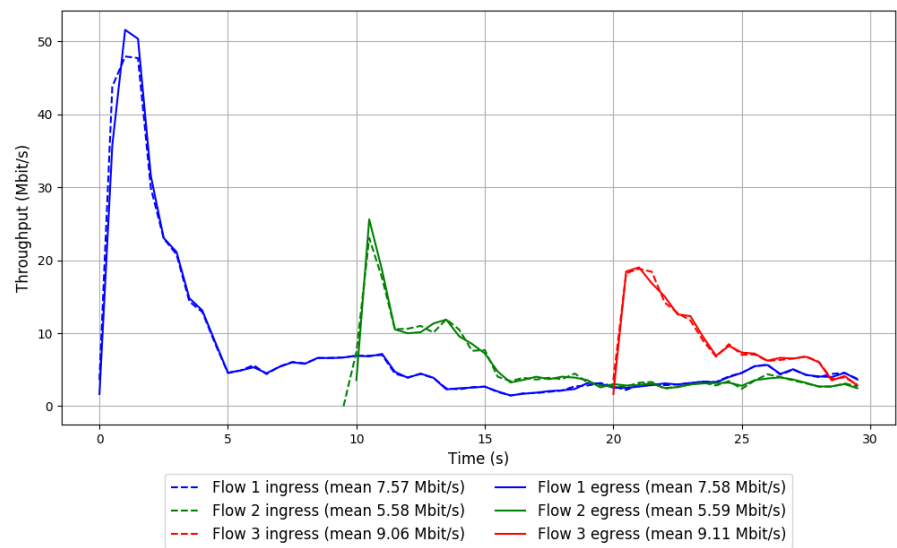
-- Flow 3:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 48.283 ms

Loss rate: 0.50%

Run 7: Report of TCP Cubic — Data Link

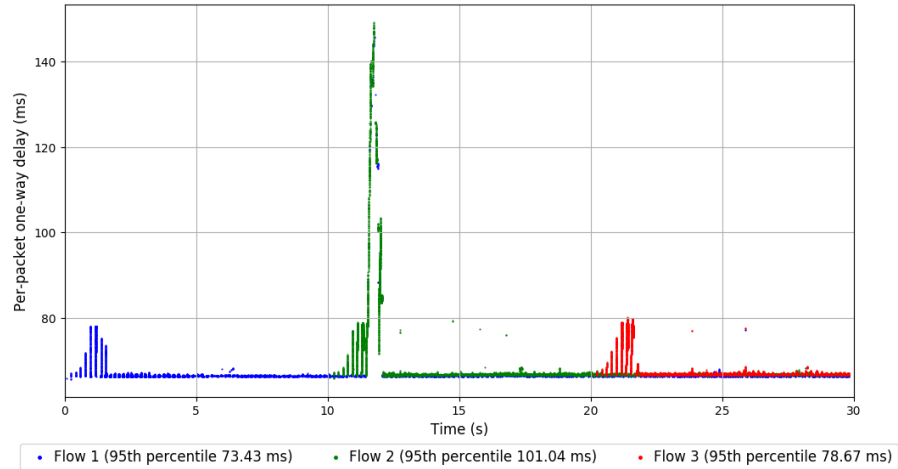
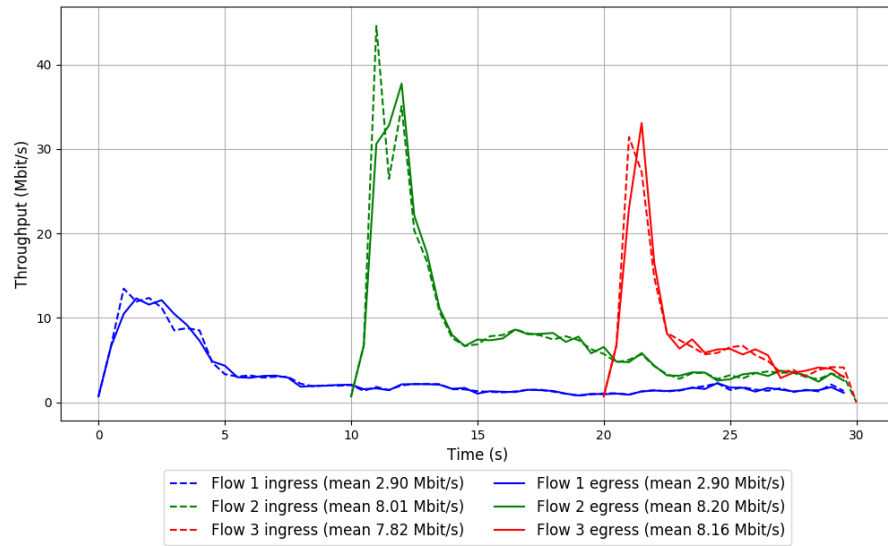


Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 09:47:29
End at: 2017-11-16 09:47:59
Local clock offset: 1.443 ms
Remote clock offset: -23.637 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 84.383 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 73.428 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 101.043 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 78.667 ms
Loss rate: 1.07%

Run 8: Report of TCP Cubic — Data Link

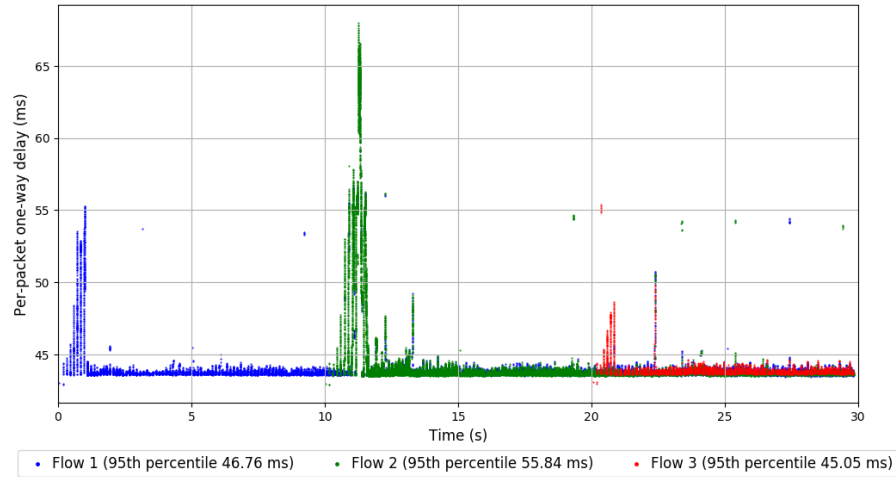
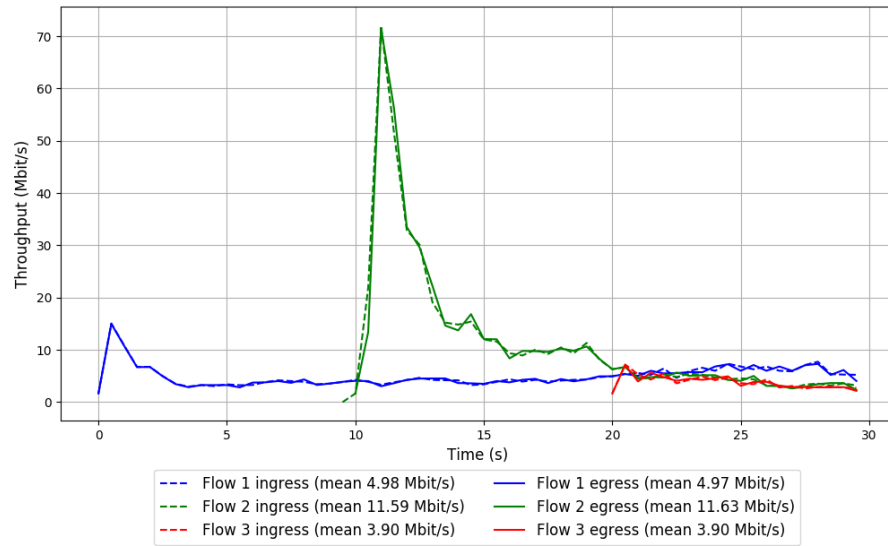


Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 10:07:17
End at: 2017-11-16 10:07:47
Local clock offset: 1.482 ms
Remote clock offset: -2.665 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 55.010 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 46.757 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 55.839 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 45.053 ms
Loss rate: 1.31%

Run 9: Report of TCP Cubic — Data Link

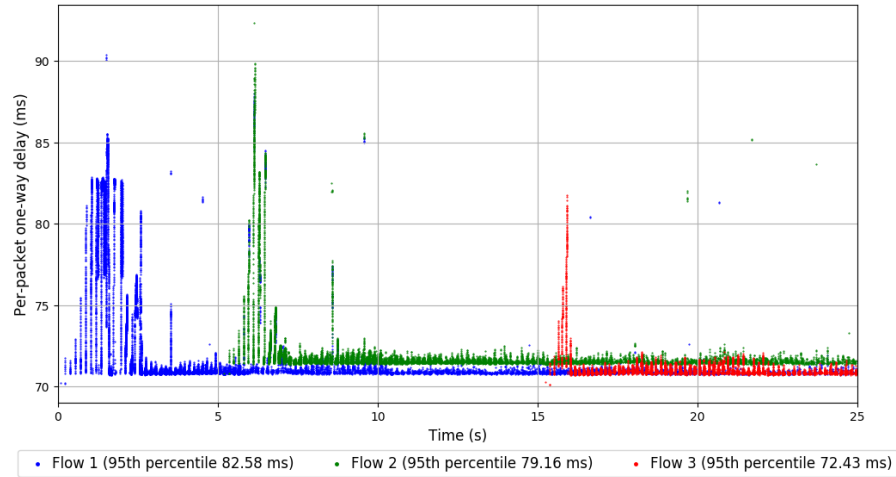
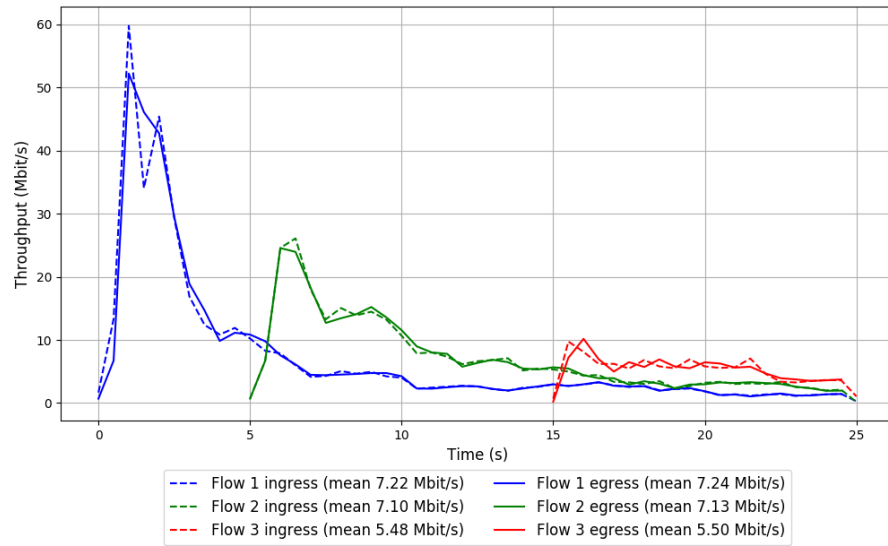


Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 10:26:12
End at: 2017-11-16 10:26:42
Local clock offset: 1.592 ms
Remote clock offset: -32.294 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 82.442 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 82.579 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 79.161 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 72.426 ms
Loss rate: 1.30%

Run 10: Report of TCP Cubic — Data Link

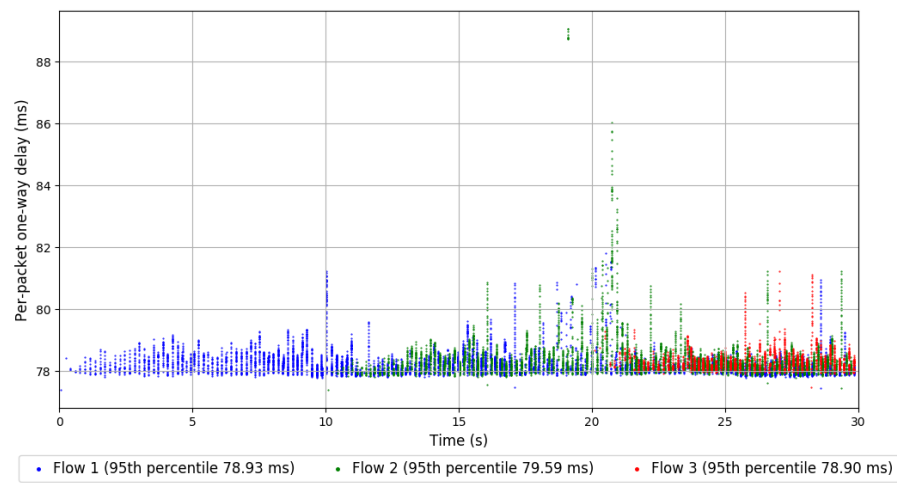
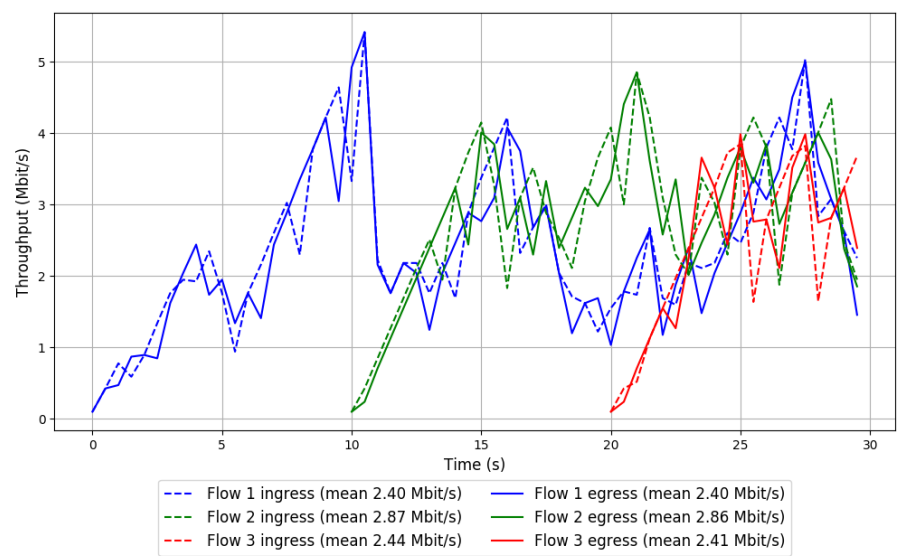


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 07:33:50
End at: 2017-11-16 07:34:20
Local clock offset: -0.191 ms
Remote clock offset: -36.631 ms

# Below is generated by plot.py at 2017-11-16 13:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 79.147 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 78.934 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 79.595 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 78.899 ms
Loss rate: 2.77%
```


Run 1: Report of LEDBAT — Data Link

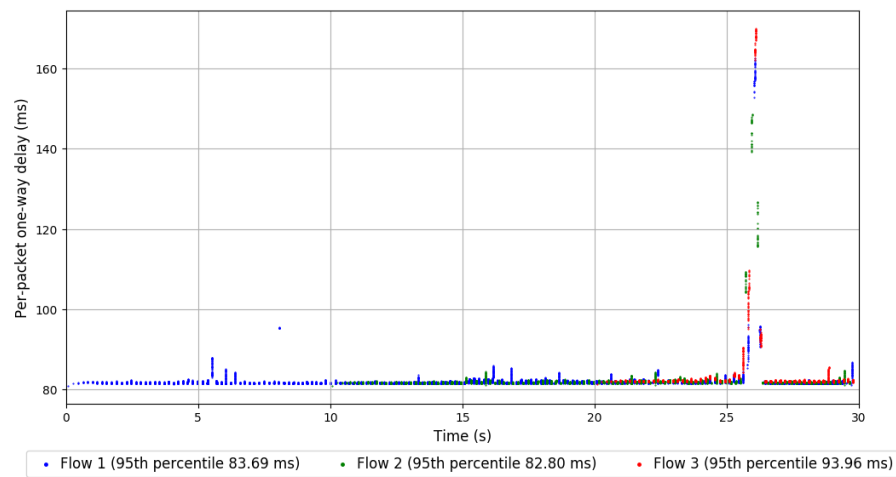
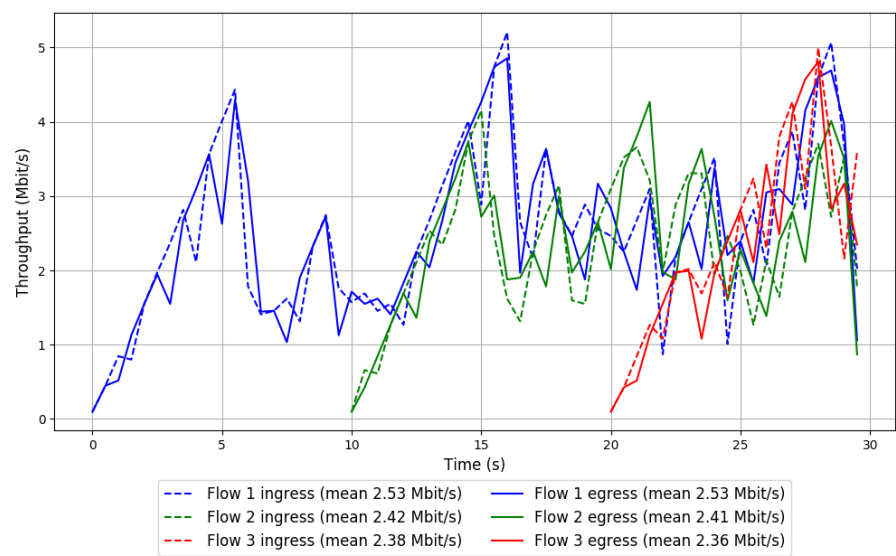


Run 2: Statistics of LEDBAT

Start at: 2017-11-16 07:53:48
End at: 2017-11-16 07:54:18
Local clock offset: 0.034 ms
Remote clock offset: -39.51 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 83.846 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 83.690 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 82.803 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 93.956 ms
Loss rate: 2.74%

Run 2: Report of LEDBAT — Data Link

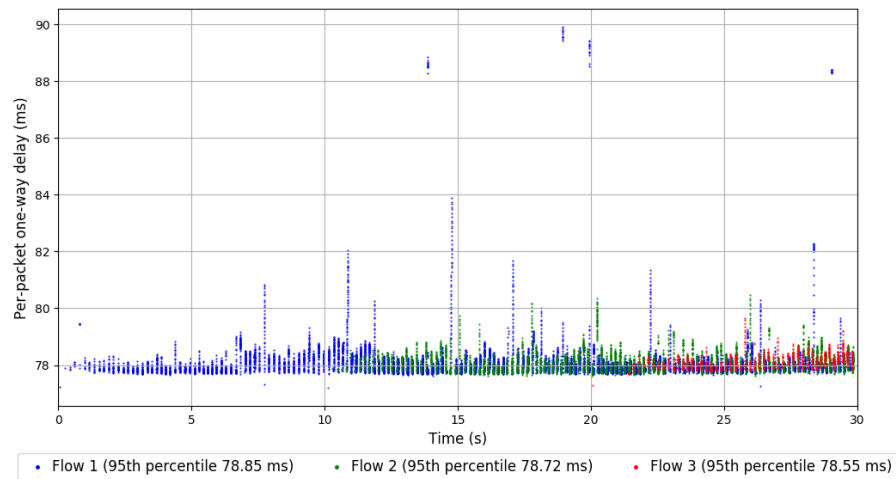
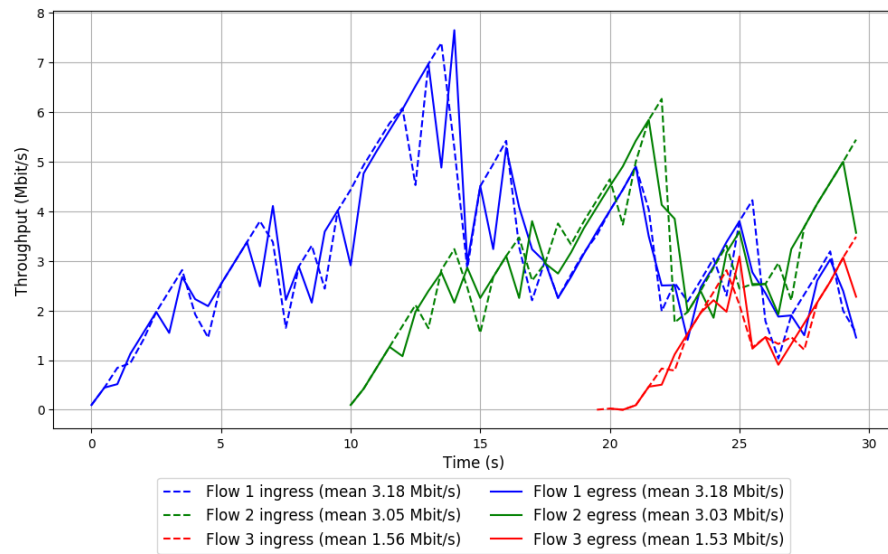


Run 3: Statistics of LEDBAT

Start at: 2017-11-16 08:13:41
End at: 2017-11-16 08:14:11
Local clock offset: 0.206 ms
Remote clock offset: -34.573 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 78.749 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 78.853 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 78.715 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 78.551 ms
Loss rate: 4.12%

Run 3: Report of LEDBAT — Data Link

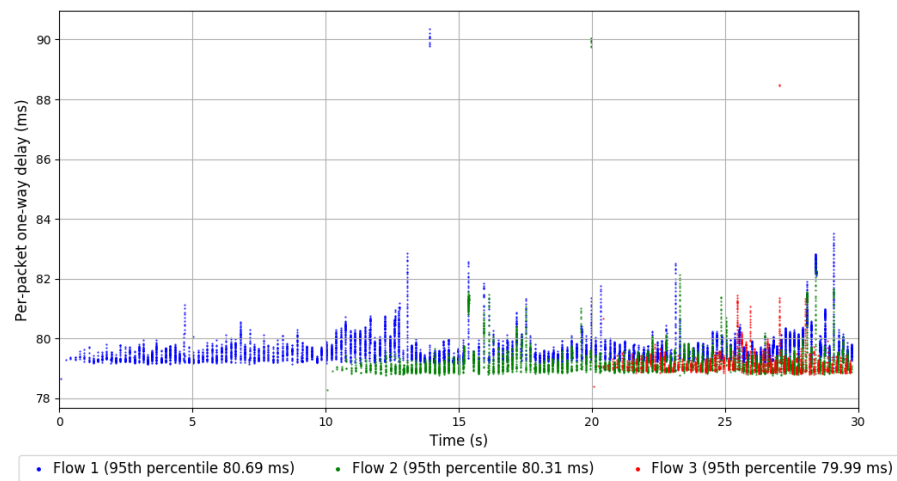
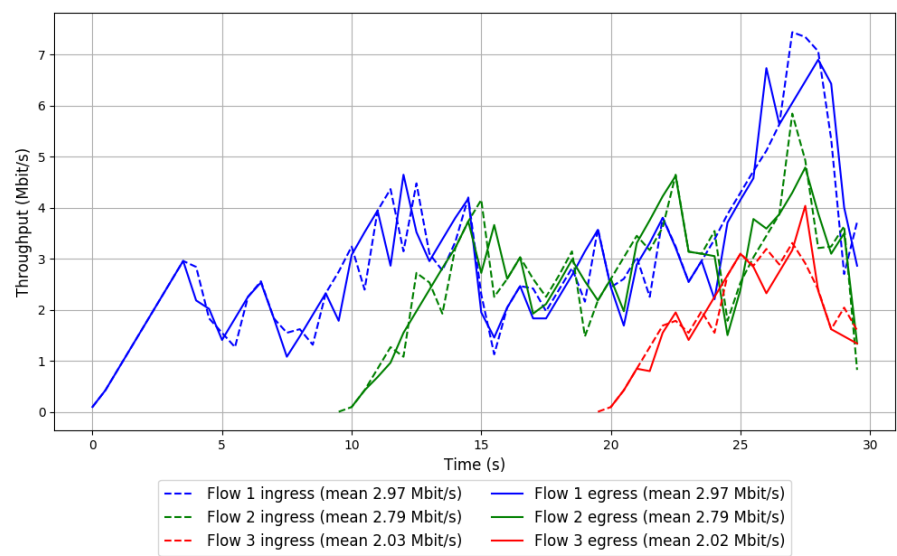


Run 4: Statistics of LEDBAT

Start at: 2017-11-16 08:33:51
End at: 2017-11-16 08:34:21
Local clock offset: 0.548 ms
Remote clock offset: -34.972 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 80.557 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 80.688 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 80.310 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 79.994 ms
Loss rate: 2.30%

Run 4: Report of LEDBAT — Data Link

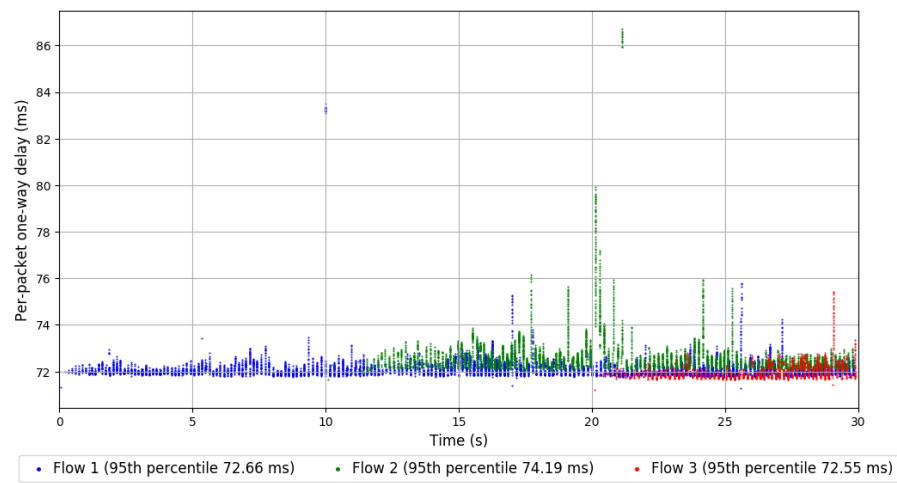
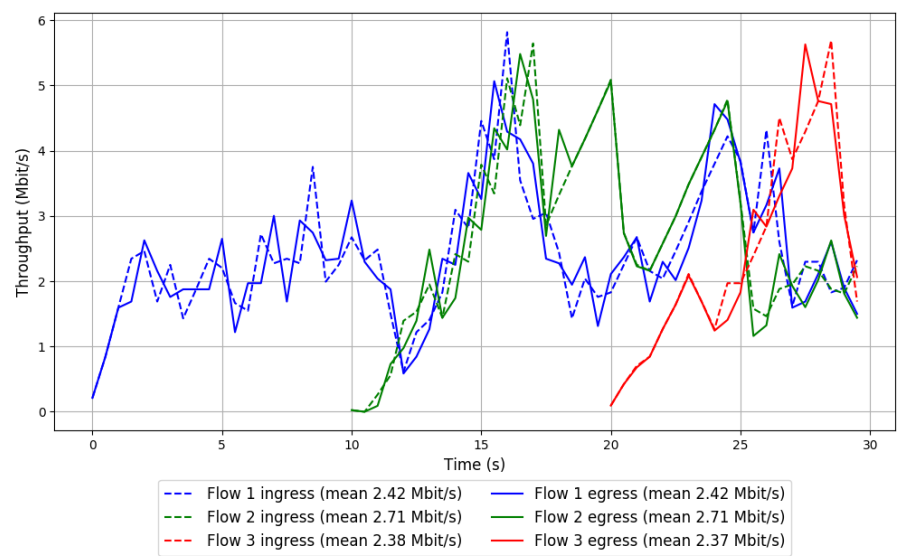


Run 5: Statistics of LEDBAT

Start at: 2017-11-16 08:54:11
End at: 2017-11-16 08:54:41
Local clock offset: 0.608 ms
Remote clock offset: -27.467 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 73.255 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 72.659 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 74.187 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 72.552 ms
Loss rate: 1.74%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-16 09:14:06

End at: 2017-11-16 09:14:36

Local clock offset: 1.023 ms

Remote clock offset: 2.216 ms

Below is generated by plot.py at 2017-11-16 13:53:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 44.204 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 44.002 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 44.451 ms

Loss rate: 1.01%

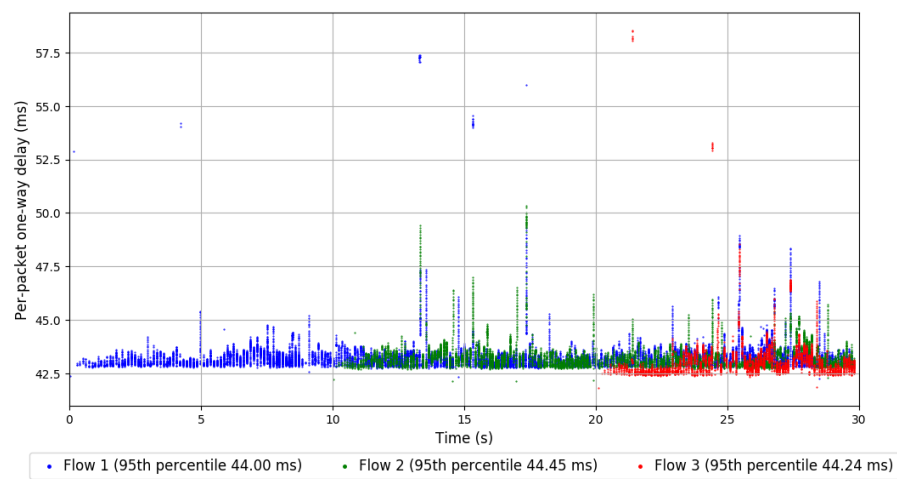
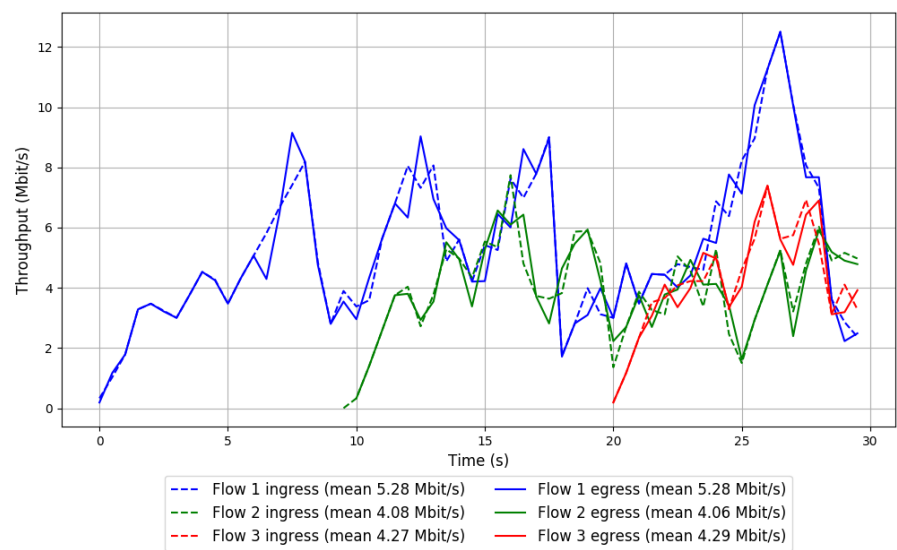
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 44.238 ms

Loss rate: 0.48%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-16 09:33:08

End at: 2017-11-16 09:33:38

Local clock offset: 1.334 ms

Remote clock offset: 3.064 ms

Below is generated by plot.py at 2017-11-16 13:53:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.83 Mbit/s

95th percentile per-packet one-way delay: 42.064 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 42.025 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 5.87 Mbit/s

95th percentile per-packet one-way delay: 42.100 ms

Loss rate: 0.39%

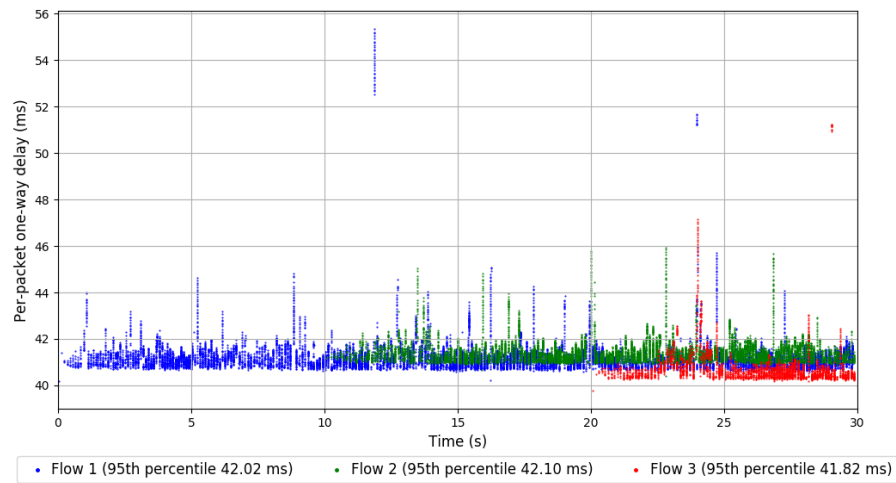
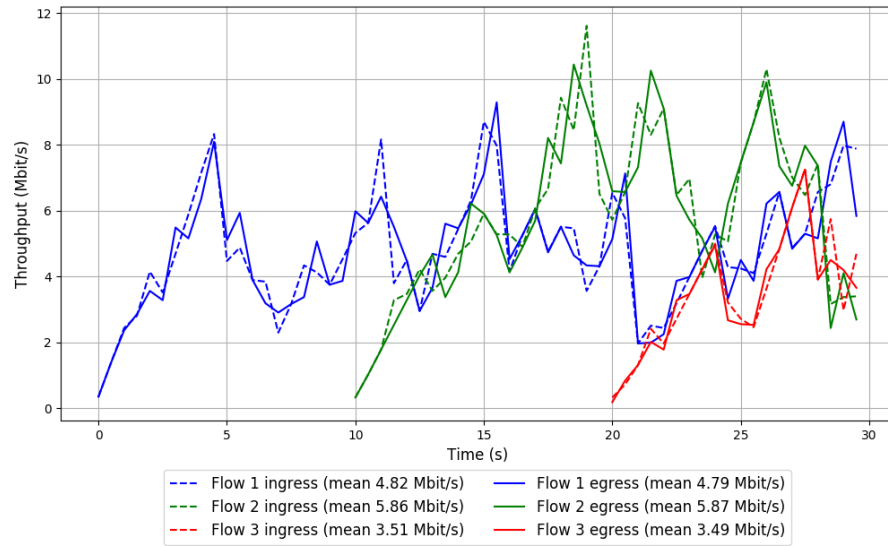
-- Flow 3:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 41.824 ms

Loss rate: 1.75%

Run 7: Report of LEDBAT — Data Link

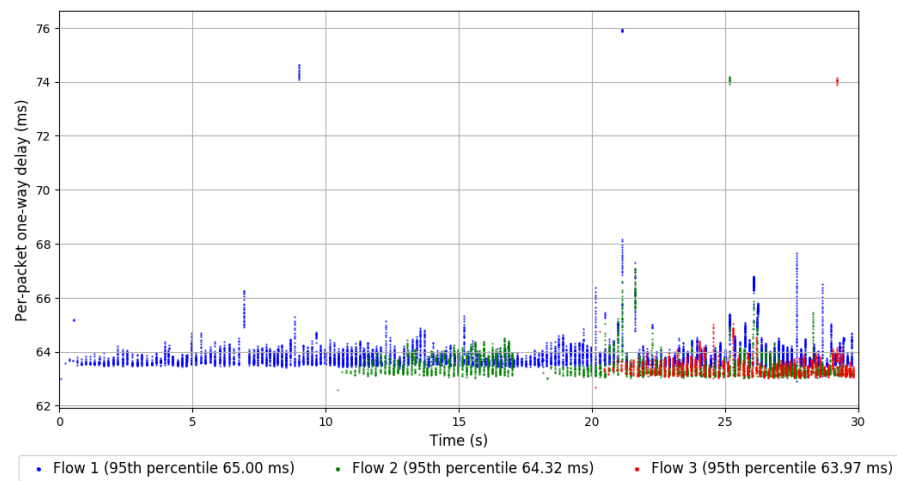
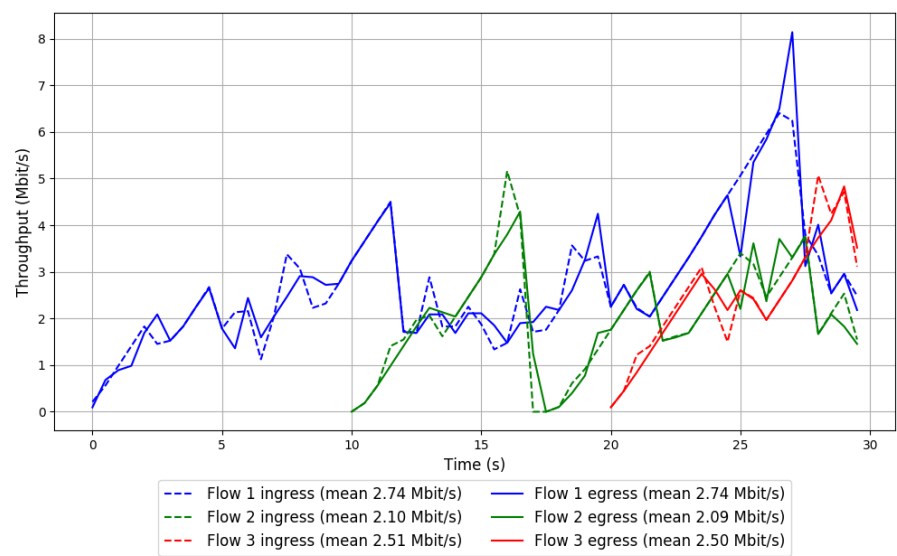


Run 8: Statistics of LEDBAT

Start at: 2017-11-16 09:52:40
End at: 2017-11-16 09:53:10
Local clock offset: 1.409 ms
Remote clock offset: -20.918 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 64.692 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 65.005 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 64.318 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 63.967 ms
Loss rate: 2.03%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-16 10:12:22

End at: 2017-11-16 10:12:52

Local clock offset: 1.591 ms

Remote clock offset: -3.51 ms

Below is generated by plot.py at 2017-11-16 13:53:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 107.734 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 95.181 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 118.764 ms

Loss rate: 1.89%

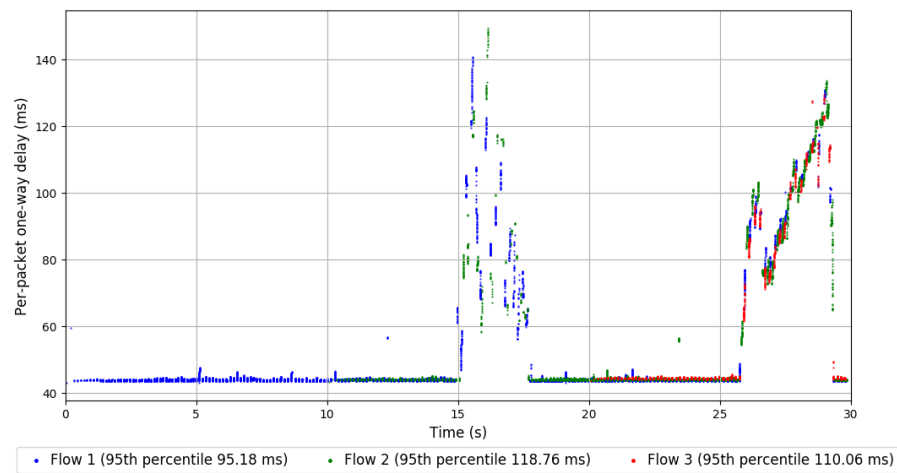
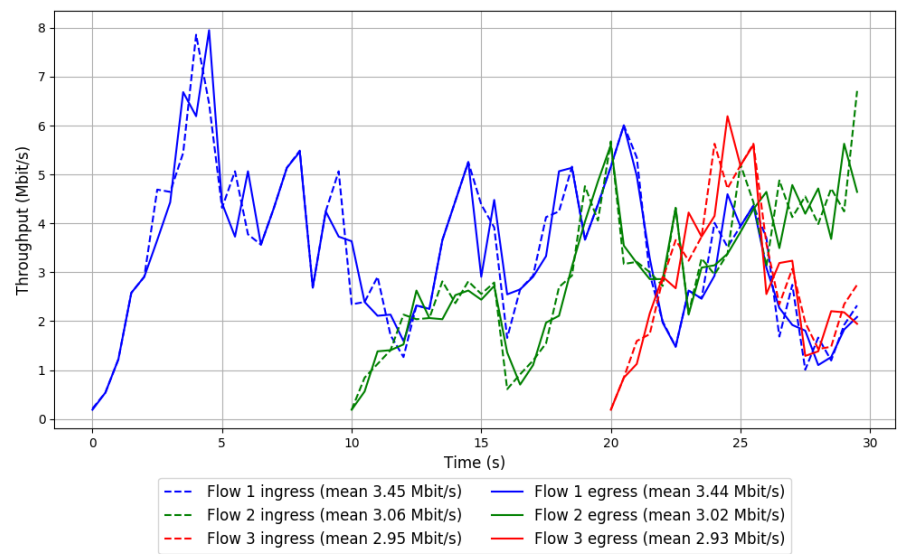
-- Flow 3:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 110.058 ms

Loss rate: 1.74%

Run 9: Report of LEDBAT — Data Link

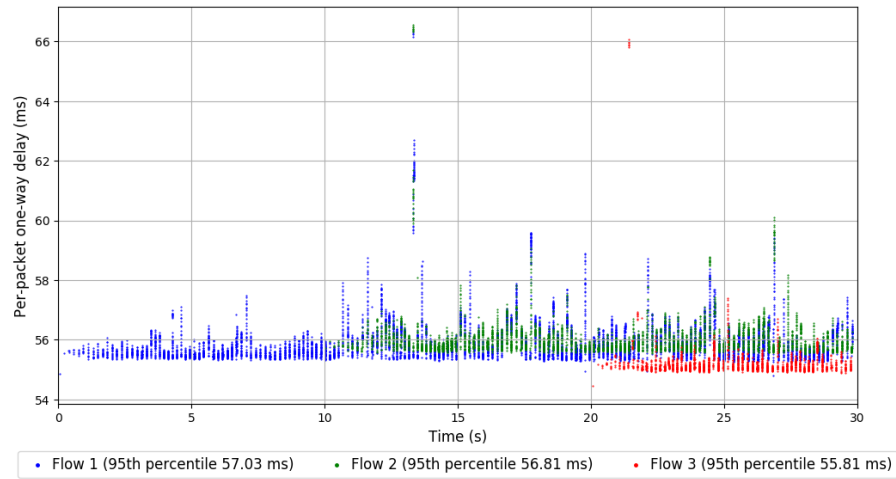
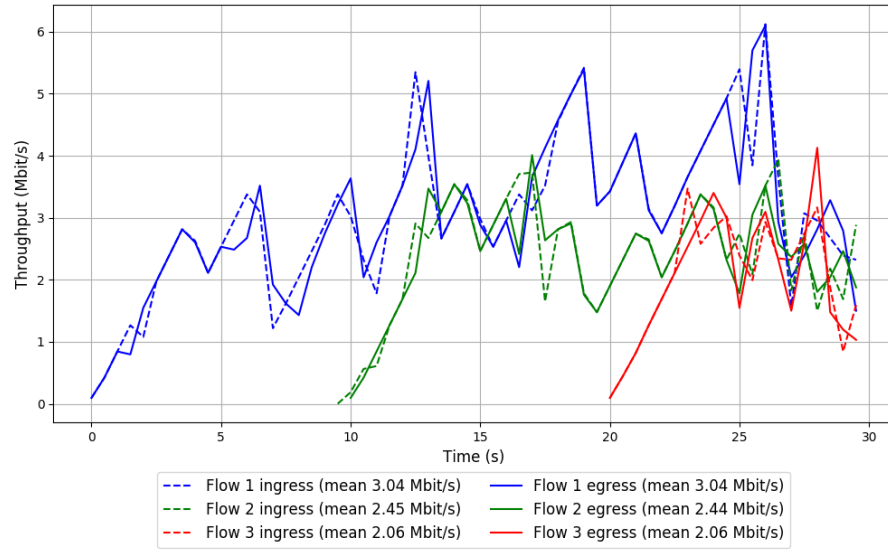


Run 10: Statistics of LEDBAT

Start at: 2017-11-16 10:31:21
End at: 2017-11-16 10:31:51
Local clock offset: 1.77 ms
Remote clock offset: -17.253 ms

Below is generated by plot.py at 2017-11-16 13:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 56.866 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 57.026 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 56.808 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 55.811 ms
Loss rate: 1.62%

Run 10: Report of LEDBAT — Data Link

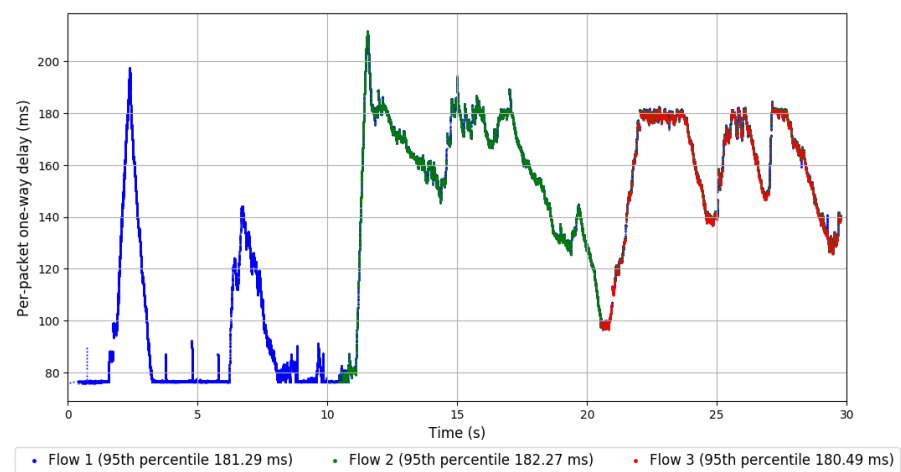
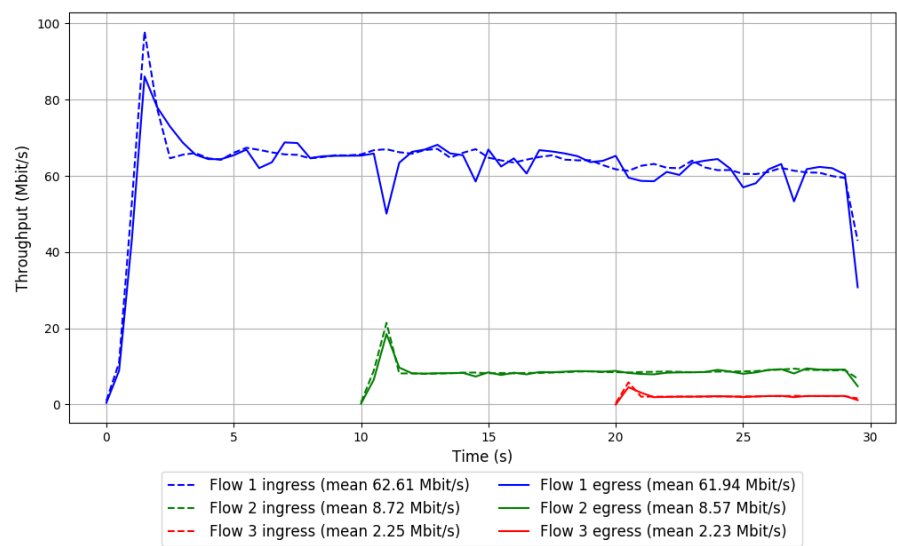


Run 1: Statistics of PCC

Start at: 2017-11-16 07:24:18
End at: 2017-11-16 07:24:48
Local clock offset: -0.262 ms
Remote clock offset: -35.448 ms

Below is generated by plot.py at 2017-11-16 13:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.33 Mbit/s
95th percentile per-packet one-way delay: 181.342 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 61.94 Mbit/s
95th percentile per-packet one-way delay: 181.294 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 182.273 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 180.486 ms
Loss rate: 3.08%

Run 1: Report of PCC — Data Link

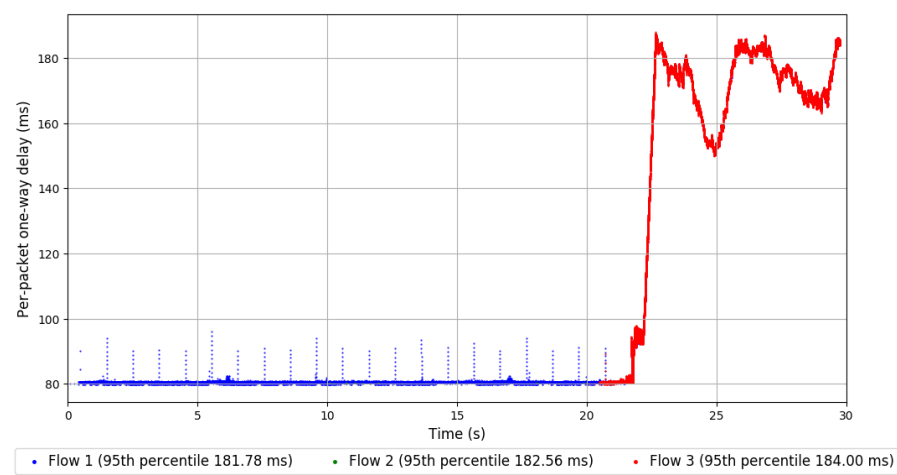
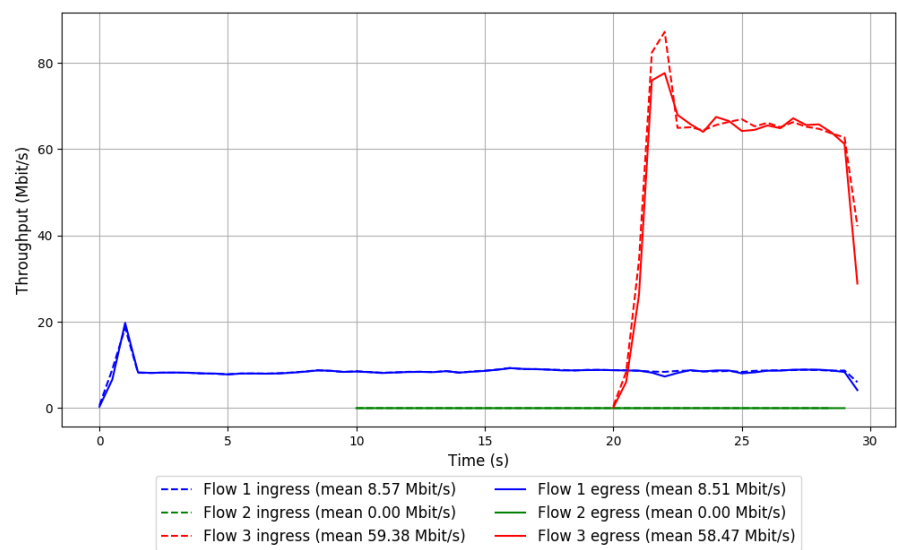


Run 2: Statistics of PCC

Start at: 2017-11-16 07:44:29
End at: 2017-11-16 07:44:59
Local clock offset: -0.071 ms
Remote clock offset: -39.121 ms

Below is generated by plot.py at 2017-11-16 13:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.54 Mbit/s
95th percentile per-packet one-way delay: 183.658 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 181.780 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 182.556 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.47 Mbit/s
95th percentile per-packet one-way delay: 184.005 ms
Loss rate: 3.25%

Run 2: Report of PCC — Data Link

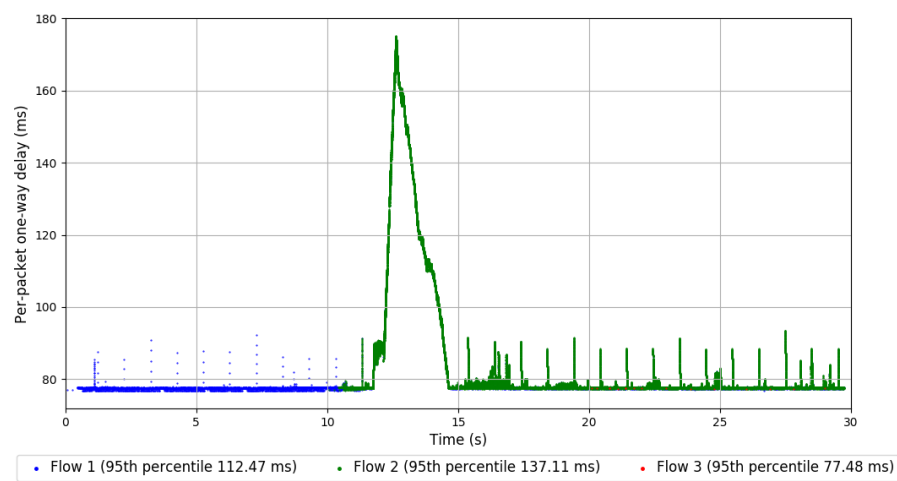
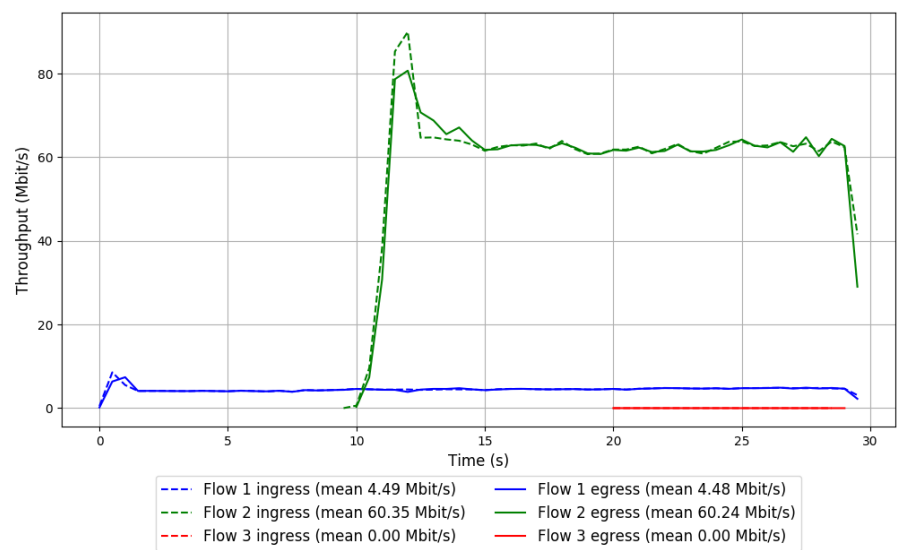


Run 3: Statistics of PCC

Start at: 2017-11-16 08:03:59
End at: 2017-11-16 08:04:29
Local clock offset: 0.261 ms
Remote clock offset: -34.083 ms

Below is generated by plot.py at 2017-11-16 13:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.43 Mbit/s
95th percentile per-packet one-way delay: 135.208 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 112.470 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 60.24 Mbit/s
95th percentile per-packet one-way delay: 137.114 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 77.481 ms
Loss rate: 0.00%

Run 3: Report of PCC — Data Link

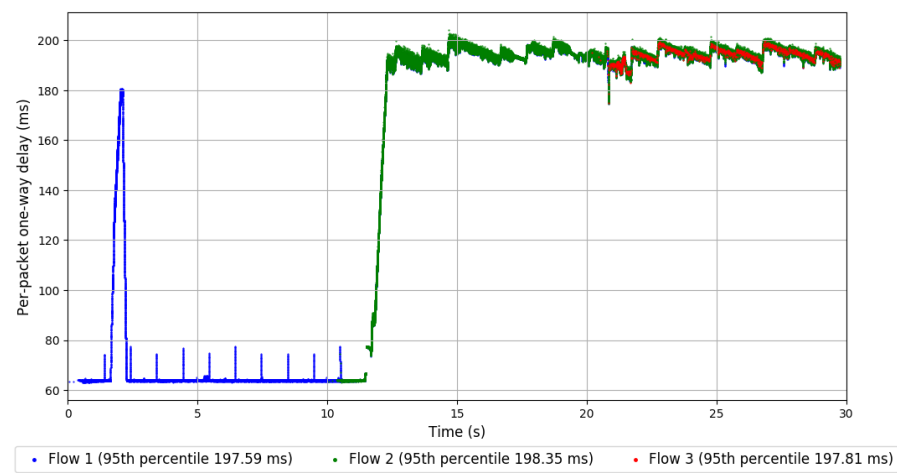
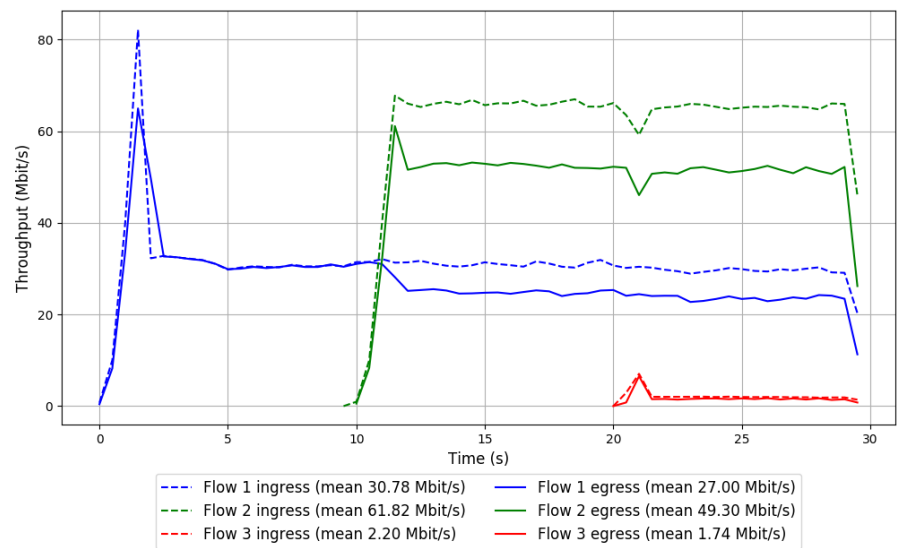


Run 4: Statistics of PCC

Start at: 2017-11-16 08:23:43
End at: 2017-11-16 08:24:13
Local clock offset: 0.522 ms
Remote clock offset: -20.417 ms

Below is generated by plot.py at 2017-11-16 13:53:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.28 Mbit/s
95th percentile per-packet one-way delay: 198.095 ms
Loss rate: 17.51%
-- Flow 1:
Average throughput: 27.00 Mbit/s
95th percentile per-packet one-way delay: 197.595 ms
Loss rate: 12.80%
-- Flow 2:
Average throughput: 49.30 Mbit/s
95th percentile per-packet one-way delay: 198.355 ms
Loss rate: 20.93%
-- Flow 3:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 197.813 ms
Loss rate: 23.20%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 08:44:27

End at: 2017-11-16 08:44:57

Local clock offset: 0.502 ms

Remote clock offset: -14.4 ms

Below is generated by plot.py at 2017-11-16 13:53:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.01 Mbit/s

95th percentile per-packet one-way delay: 160.885 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 157.112 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 163.194 ms

Loss rate: 2.13%

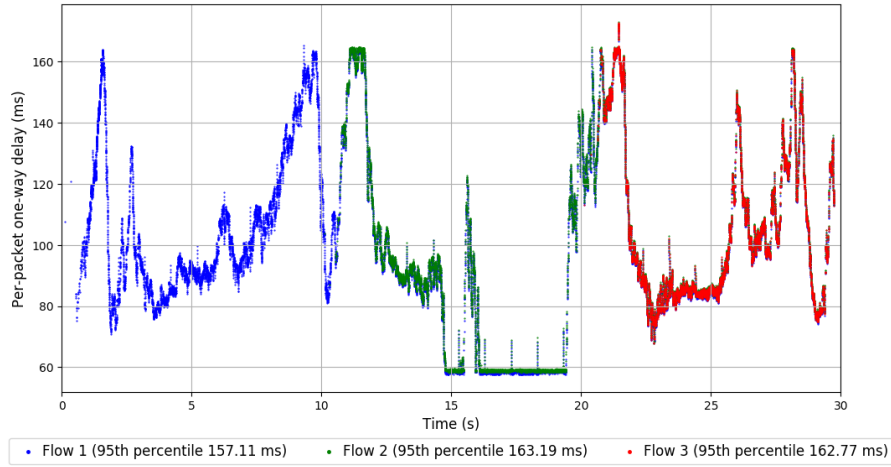
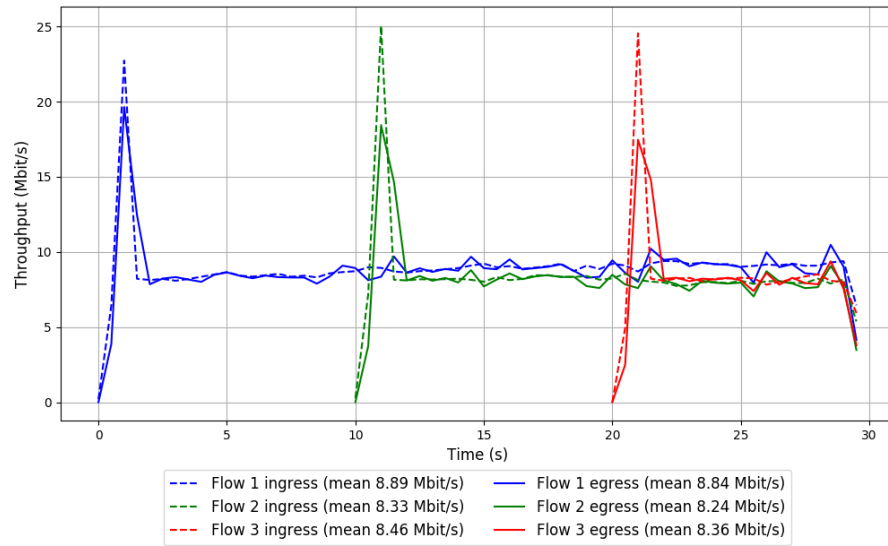
-- Flow 3:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 162.769 ms

Loss rate: 3.34%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-16 09:04:54

End at: 2017-11-16 09:05:24

Local clock offset: 0.883 ms

Remote clock offset: 3.562 ms

Below is generated by plot.py at 2017-11-16 13:53:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.03 Mbit/s

95th percentile per-packet one-way delay: 145.424 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 53.12 Mbit/s

95th percentile per-packet one-way delay: 145.331 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 146.272 ms

Loss rate: 3.12%

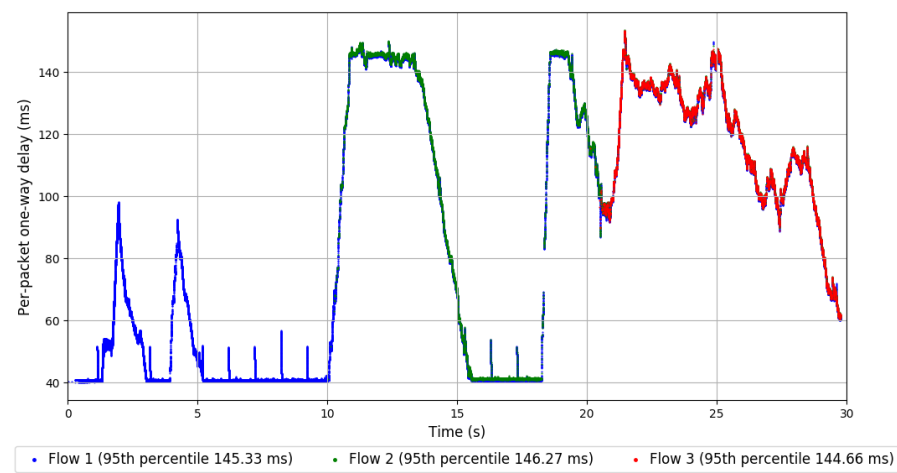
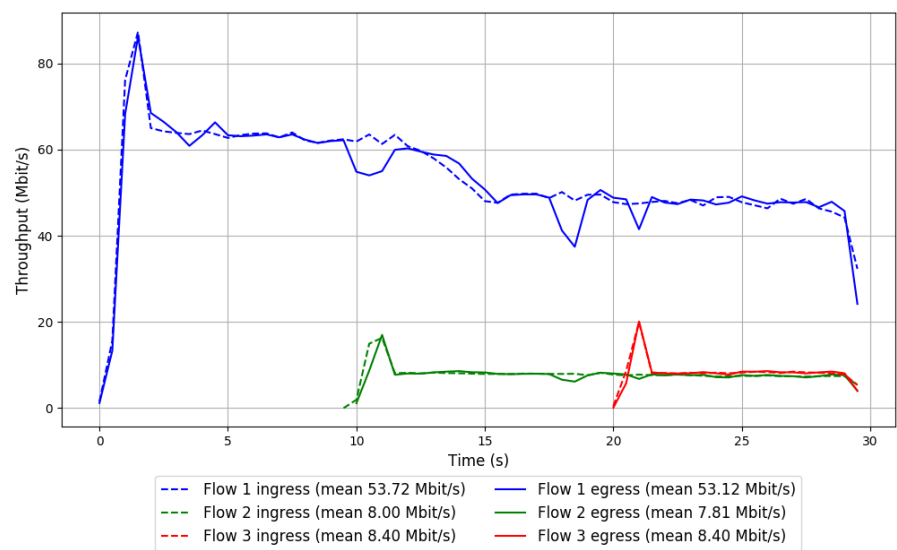
-- Flow 3:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 144.658 ms

Loss rate: 2.23%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-16 09:23:50

End at: 2017-11-16 09:24:20

Local clock offset: 1.127 ms

Remote clock offset: 3.976 ms

Below is generated by plot.py at 2017-11-16 13:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.33 Mbit/s

95th percentile per-packet one-way delay: 172.408 ms

Loss rate: 14.06%

-- Flow 1:

Average throughput: 55.03 Mbit/s

95th percentile per-packet one-way delay: 172.140 ms

Loss rate: 12.43%

-- Flow 2:

Average throughput: 23.71 Mbit/s

95th percentile per-packet one-way delay: 173.288 ms

Loss rate: 19.09%

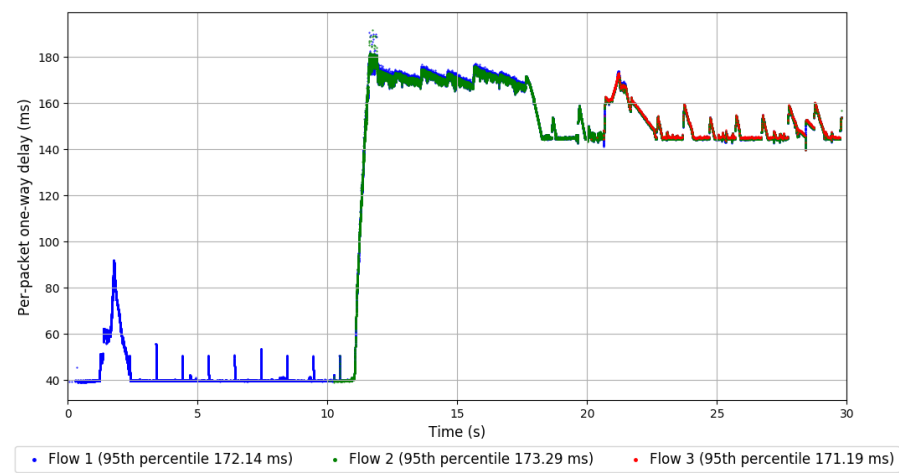
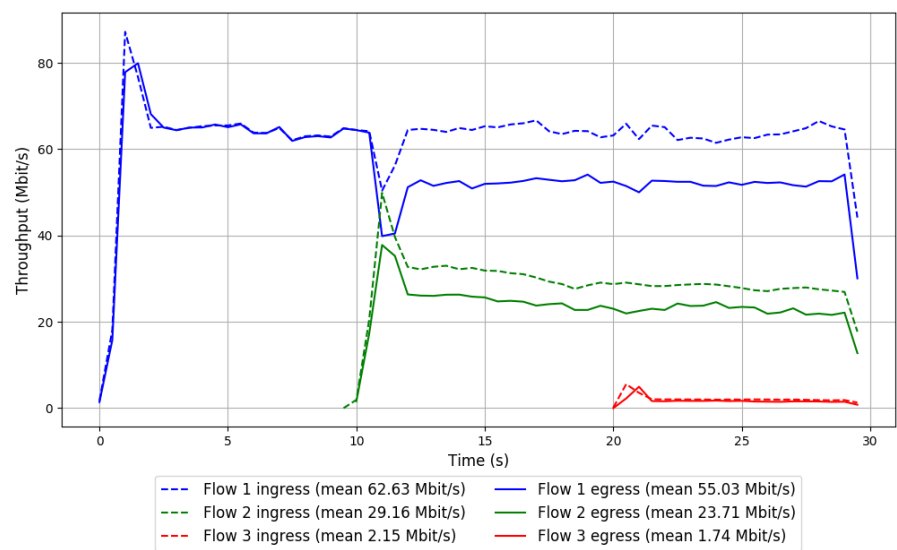
-- Flow 3:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 171.189 ms

Loss rate: 20.34%

Run 7: Report of PCC — Data Link

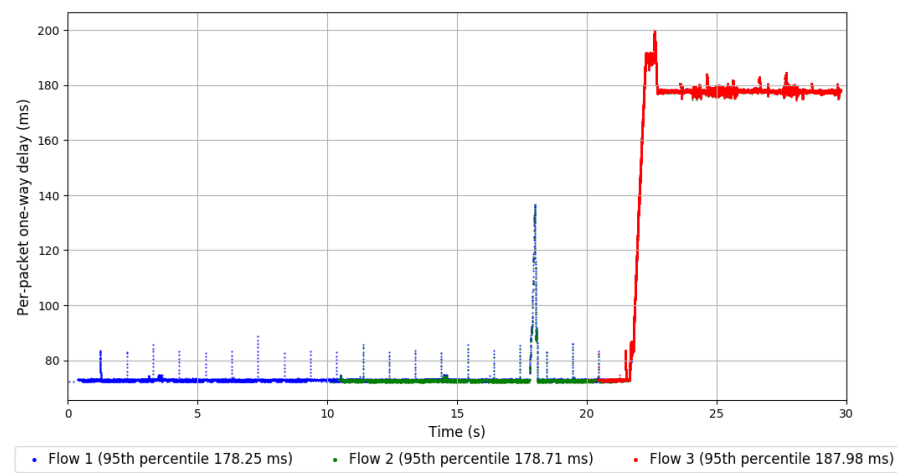
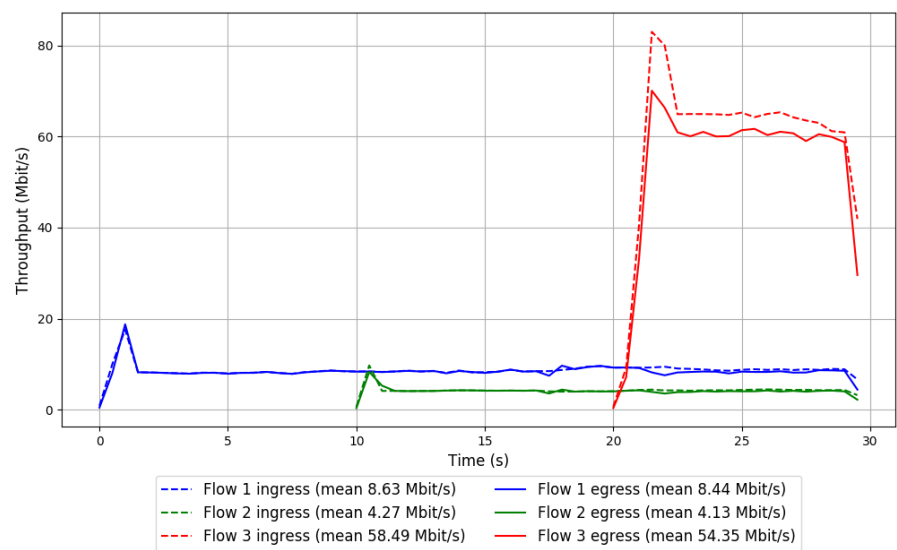


Run 8: Statistics of PCC

Start at: 2017-11-16 09:43:18
End at: 2017-11-16 09:43:48
Local clock offset: 1.33 ms
Remote clock offset: -29.743 ms

Below is generated by plot.py at 2017-11-16 13:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.89 Mbit/s
95th percentile per-packet one-way delay: 181.538 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 178.253 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 178.712 ms
Loss rate: 4.05%
-- Flow 3:
Average throughput: 54.35 Mbit/s
95th percentile per-packet one-way delay: 187.981 ms
Loss rate: 8.71%

Run 8: Report of PCC — Data Link

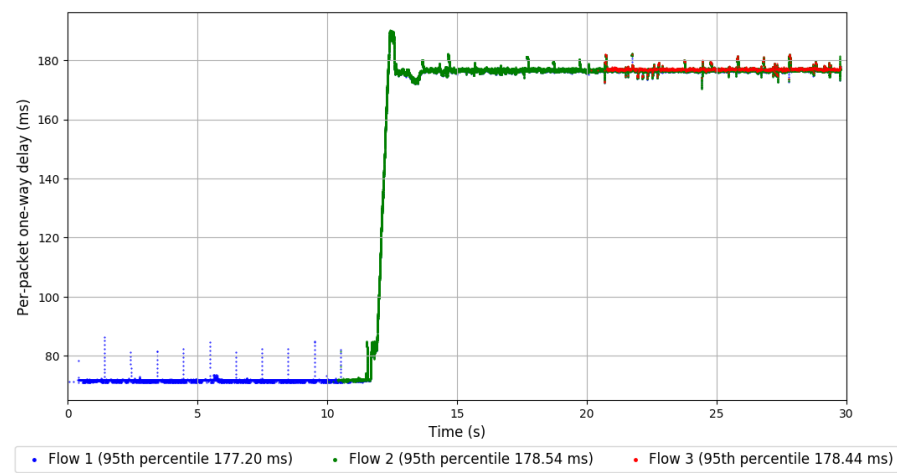
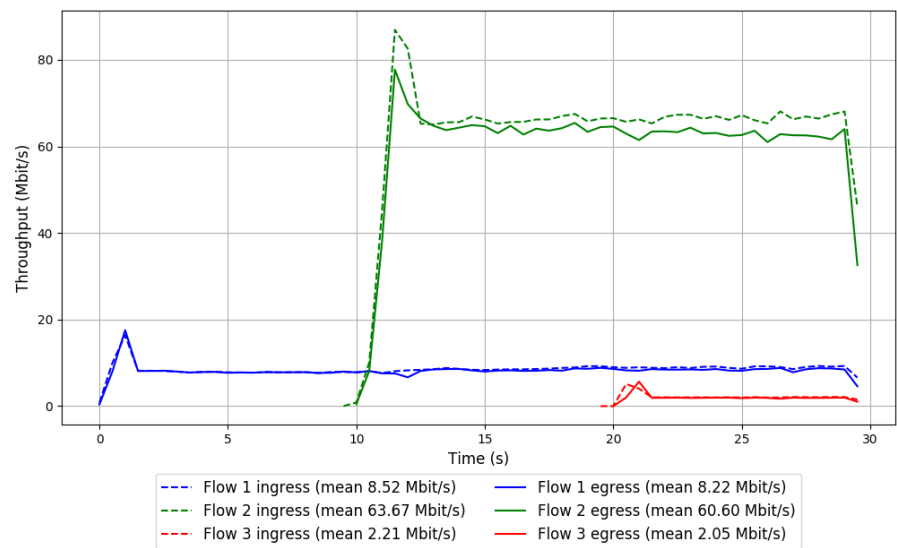


Run 9: Statistics of PCC

Start at: 2017-11-16 10:02:35
End at: 2017-11-16 10:03:05
Local clock offset: 1.304 ms
Remote clock offset: -30.577 ms

Below is generated by plot.py at 2017-11-16 13:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 178.296 ms
Loss rate: 5.40%
-- Flow 1:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 177.203 ms
Loss rate: 4.01%
-- Flow 2:
Average throughput: 60.60 Mbit/s
95th percentile per-packet one-way delay: 178.537 ms
Loss rate: 5.61%
-- Flow 3:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 178.441 ms
Loss rate: 9.55%

Run 9: Report of PCC — Data Link

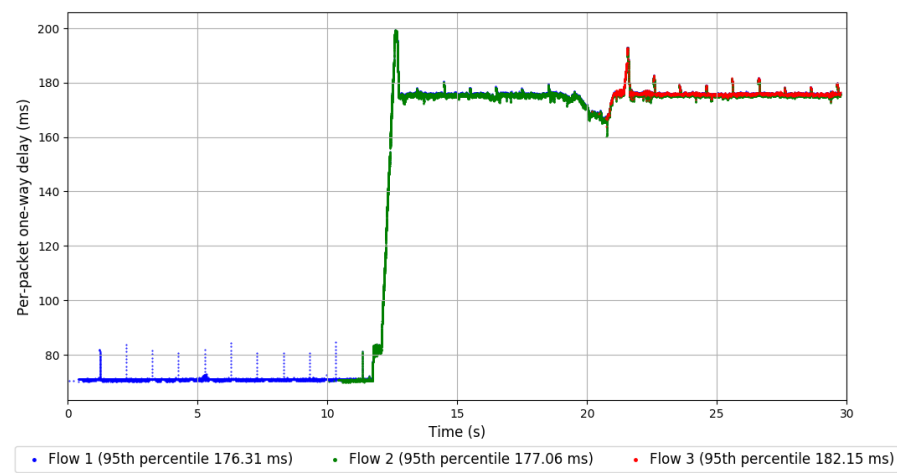
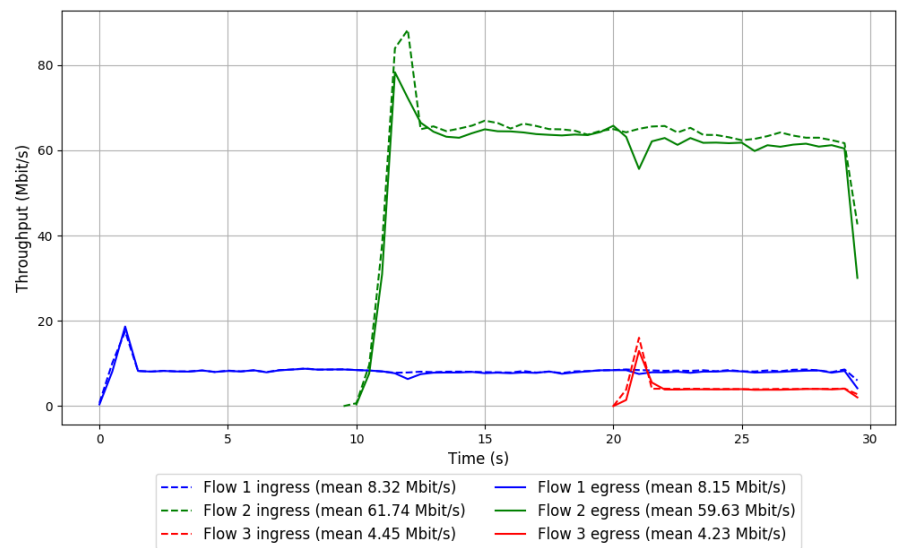


Run 10: Statistics of PCC

Start at: 2017-11-16 10:22:02
End at: 2017-11-16 10:22:32
Local clock offset: 1.518 ms
Remote clock offset: -31.661 ms

Below is generated by plot.py at 2017-11-16 13:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 177.013 ms
Loss rate: 4.06%
-- Flow 1:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 176.308 ms
Loss rate: 2.55%
-- Flow 2:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 177.059 ms
Loss rate: 4.25%
-- Flow 3:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 182.152 ms
Loss rate: 7.42%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

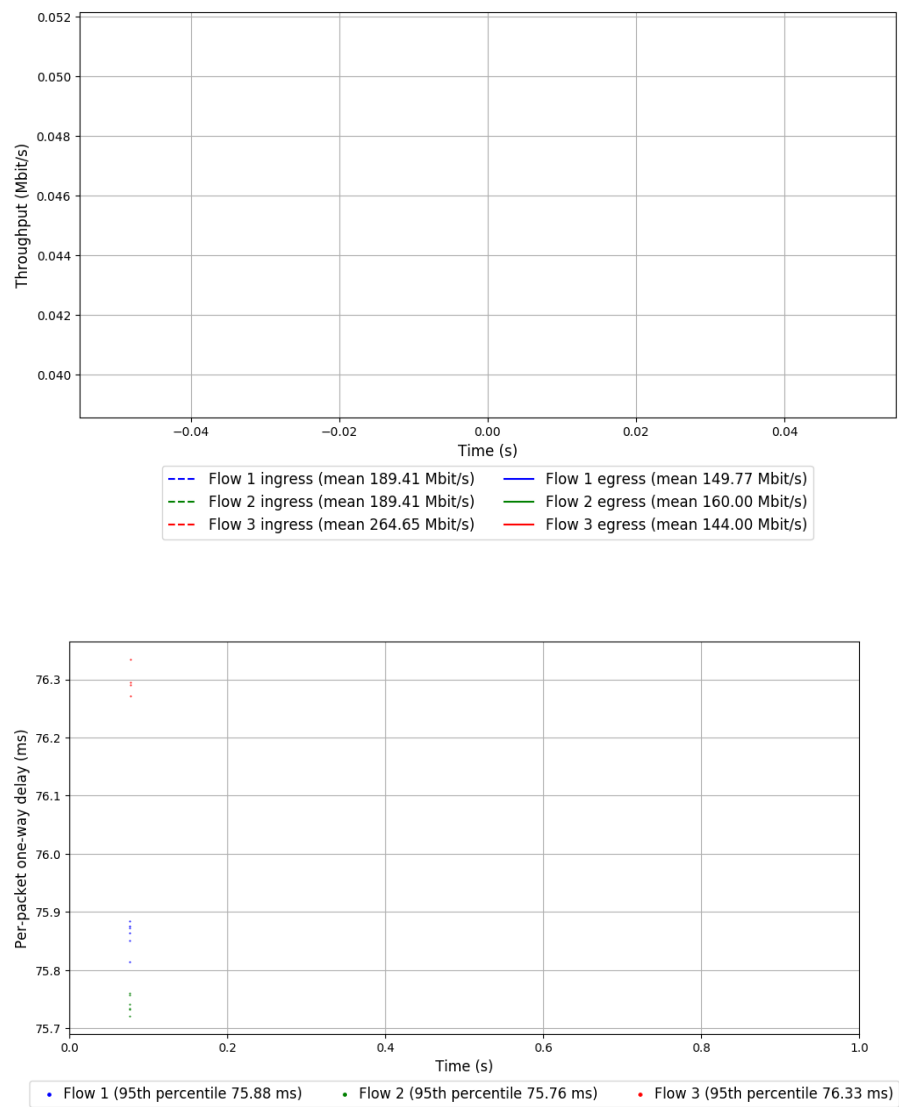
Start at: 2017-11-16 07:32:34

End at: 2017-11-16 07:33:04

Local clock offset: -0.215 ms

Remote clock offset: -35.154 ms

Run 1: Report of QUIC Cubic — Data Link

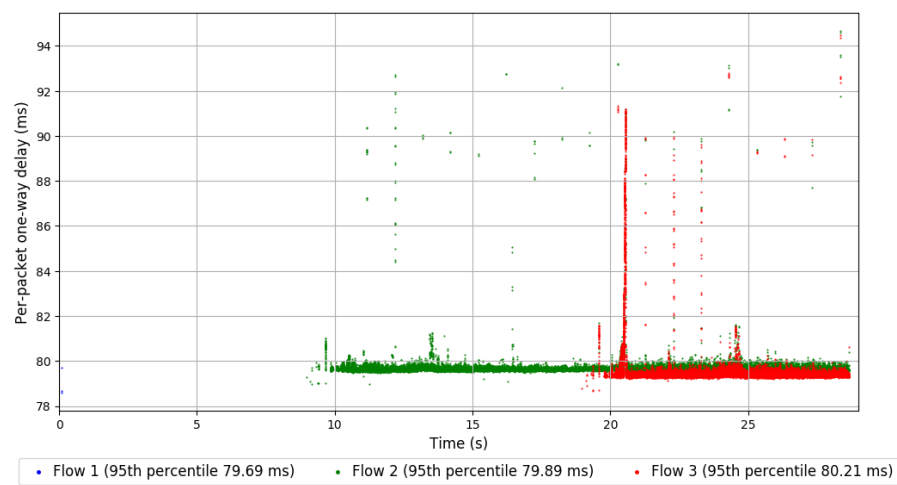
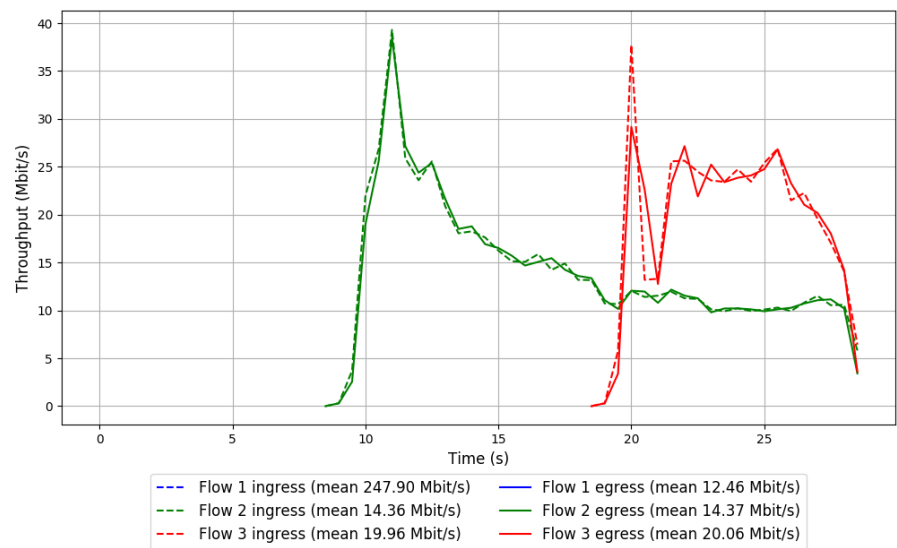


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 07:52:30
End at: 2017-11-16 07:53:00
Local clock offset: 0.062 ms
Remote clock offset: -36.928 ms

Below is generated by plot.py at 2017-11-16 13:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 79.921 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 12.46 Mbit/s
95th percentile per-packet one-way delay: 79.693 ms
Loss rate: 25.00%
-- Flow 2:
Average throughput: 14.37 Mbit/s
95th percentile per-packet one-way delay: 79.893 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 20.06 Mbit/s
95th percentile per-packet one-way delay: 80.212 ms
Loss rate: 1.33%

Run 2: Report of QUIC Cubic — Data Link

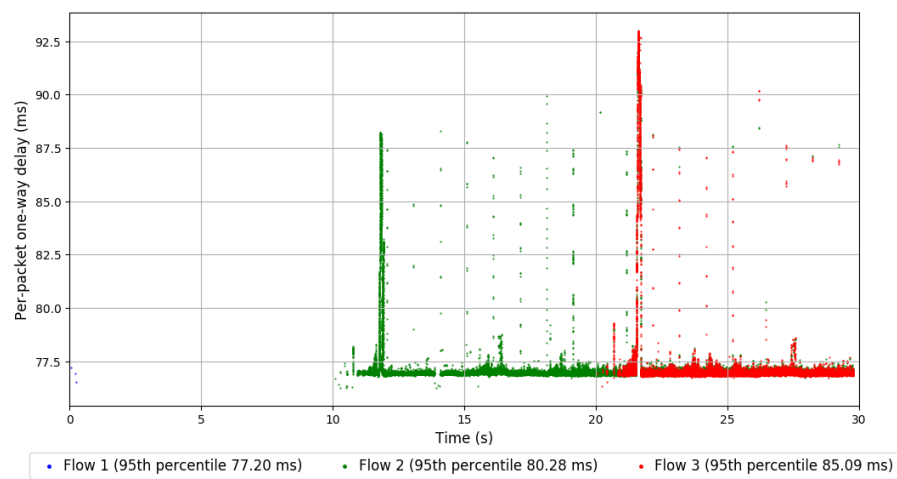
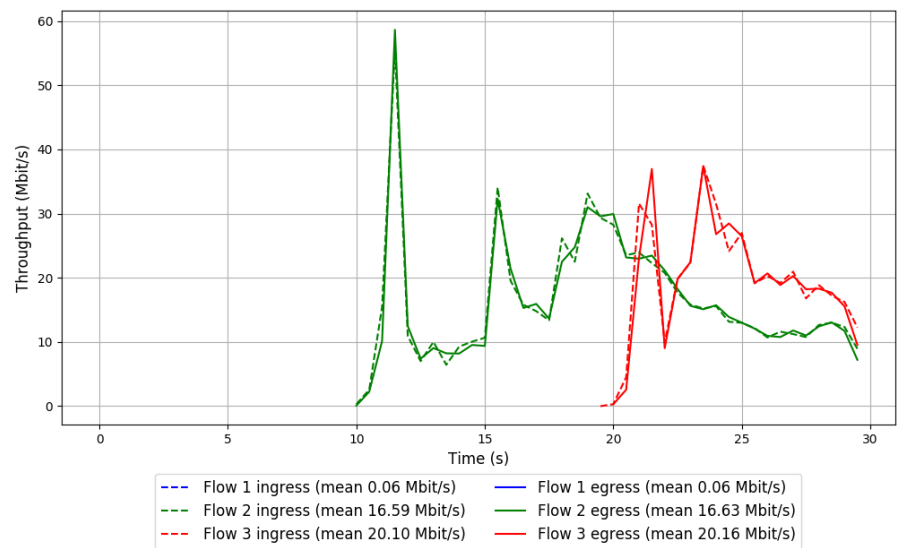


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 08:12:21
End at: 2017-11-16 08:12:51
Local clock offset: 0.473 ms
Remote clock offset: -33.779 ms

Below is generated by plot.py at 2017-11-16 13:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.62 Mbit/s
95th percentile per-packet one-way delay: 81.465 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 77.199 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.63 Mbit/s
95th percentile per-packet one-way delay: 80.283 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 85.086 ms
Loss rate: 1.55%

Run 3: Report of QUIC Cubic — Data Link

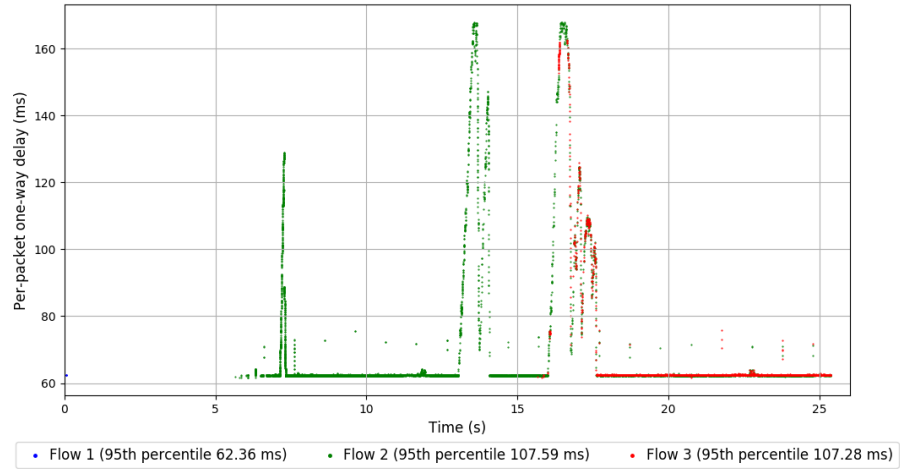
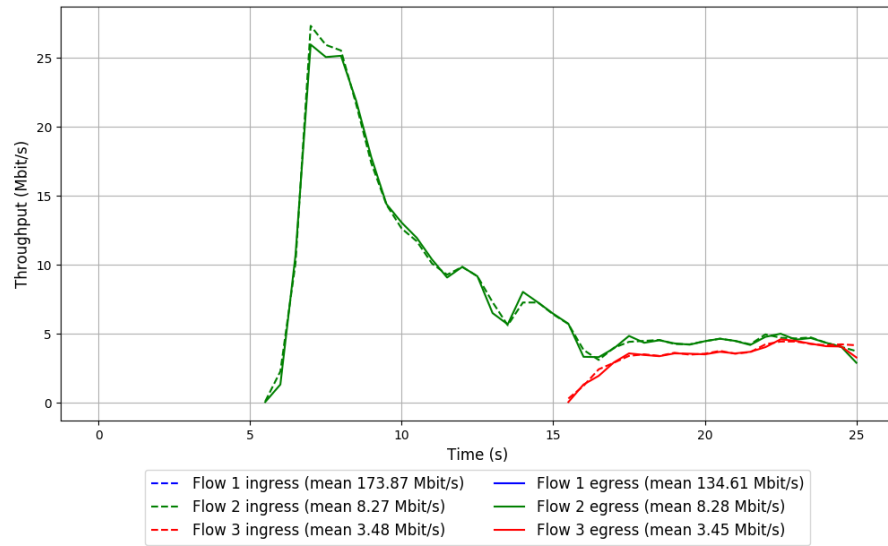


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 08:32:33
End at: 2017-11-16 08:33:03
Local clock offset: 0.278 ms
Remote clock offset: -18.373 ms

Below is generated by plot.py at 2017-11-16 13:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 107.475 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 134.61 Mbit/s
95th percentile per-packet one-way delay: 62.356 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 107.590 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 107.281 ms
Loss rate: 2.37%

Run 4: Report of QUIC Cubic — Data Link

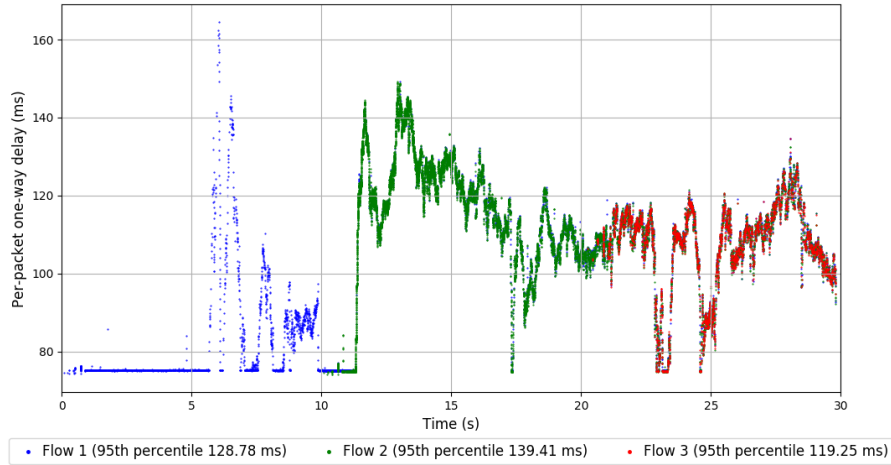
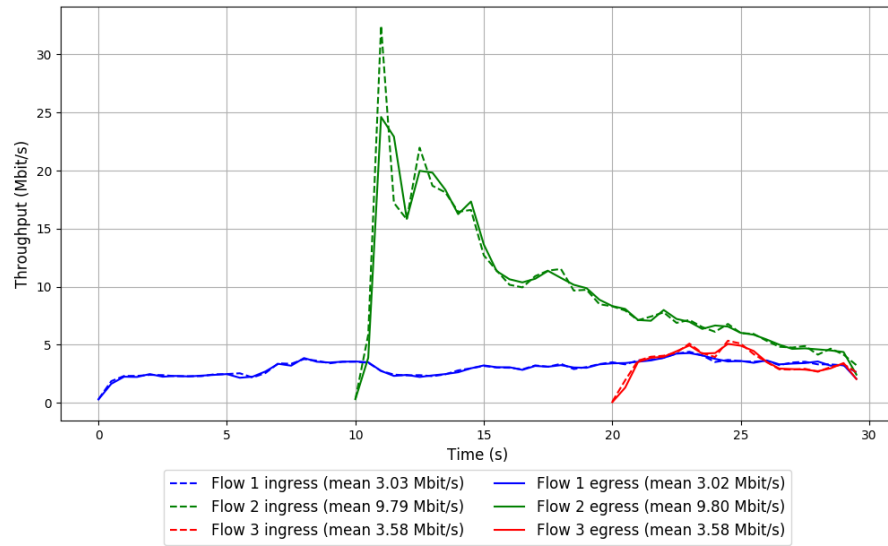


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 08:52:49
End at: 2017-11-16 08:53:19
Local clock offset: 0.707 ms
Remote clock offset: -30.649 ms

Below is generated by plot.py at 2017-11-16 13:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 136.963 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 128.781 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 139.413 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 119.249 ms
Loss rate: 2.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 09:12:50

End at: 2017-11-16 09:13:20

Local clock offset: 0.928 ms

Remote clock offset: 4.401 ms

Below is generated by plot.py at 2017-11-16 13:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 40.352 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 40.346 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 40.083 ms

Loss rate: 0.86%

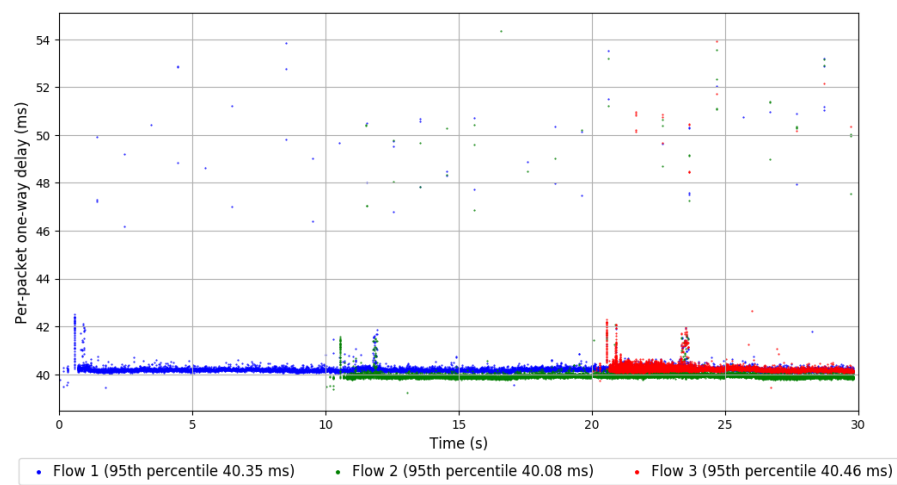
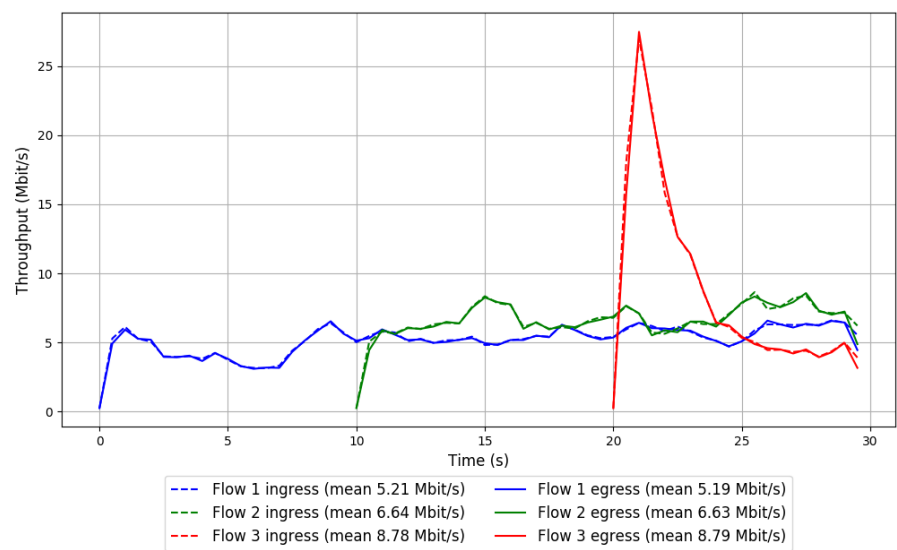
-- Flow 3:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 40.456 ms

Loss rate: 1.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 09:31:53

End at: 2017-11-16 09:32:23

Local clock offset: 1.184 ms

Remote clock offset: 3.436 ms

Below is generated by plot.py at 2017-11-16 13:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.42 Mbit/s

95th percentile per-packet one-way delay: 81.754 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 15.98 Mbit/s

95th percentile per-packet one-way delay: 51.710 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 138.246 ms

Loss rate: 0.94%

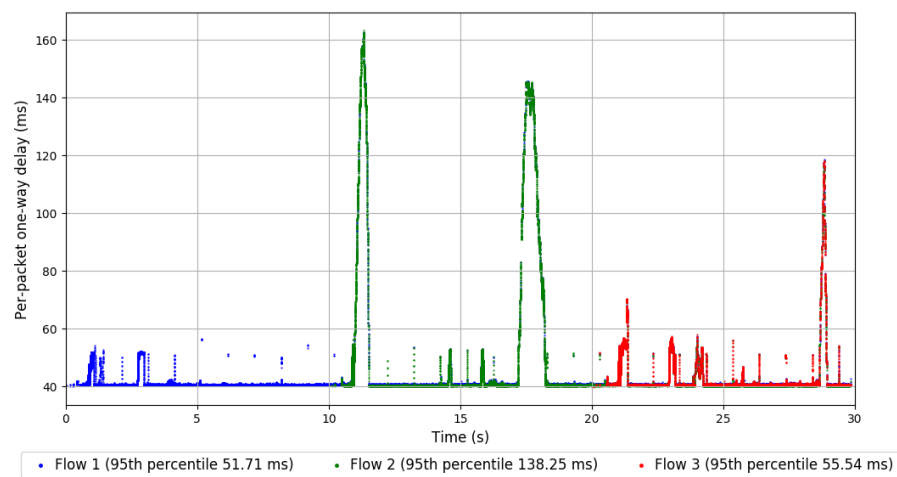
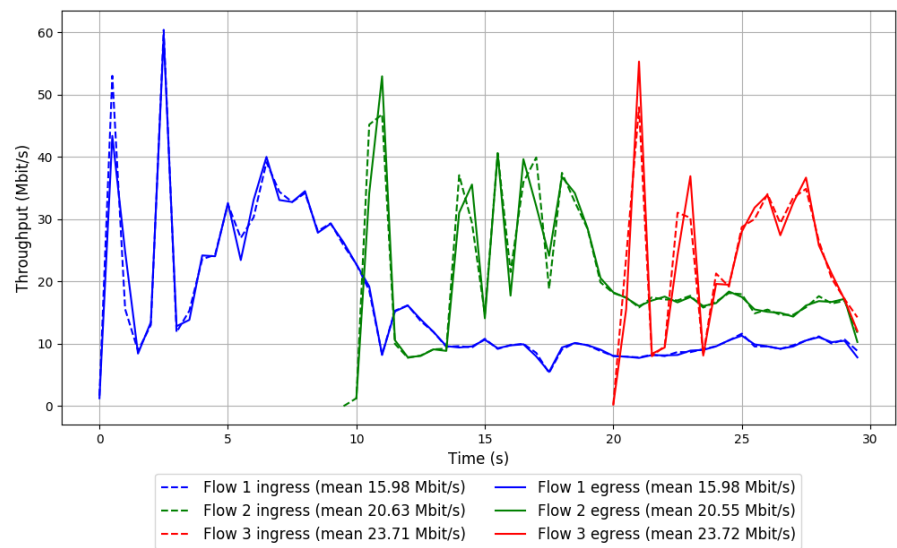
-- Flow 3:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 55.543 ms

Loss rate: 0.98%

Run 7: Report of QUIC Cubic — Data Link

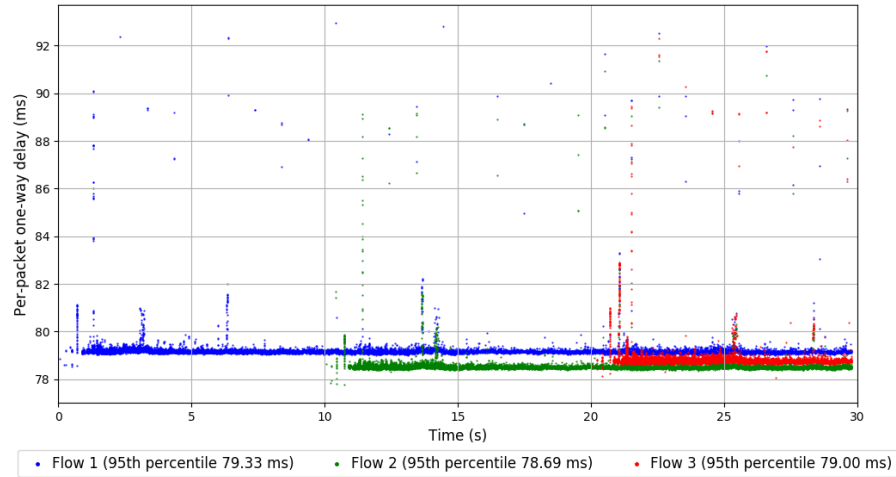
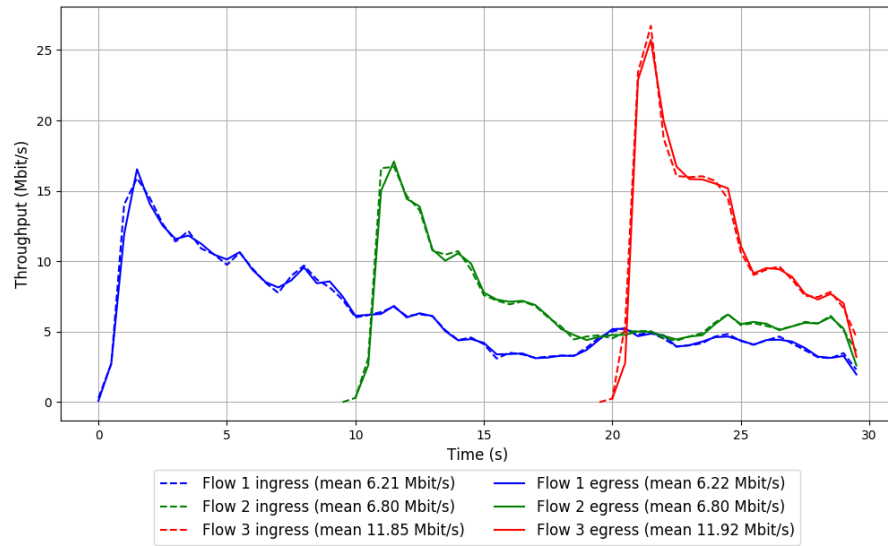


Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 09:51:19
End at: 2017-11-16 09:51:49
Local clock offset: 1.328 ms
Remote clock offset: -36.194 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 79.272 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 79.329 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 78.689 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 78.999 ms
Loss rate: 1.16%

Run 8: Report of QUIC Cubic — Data Link

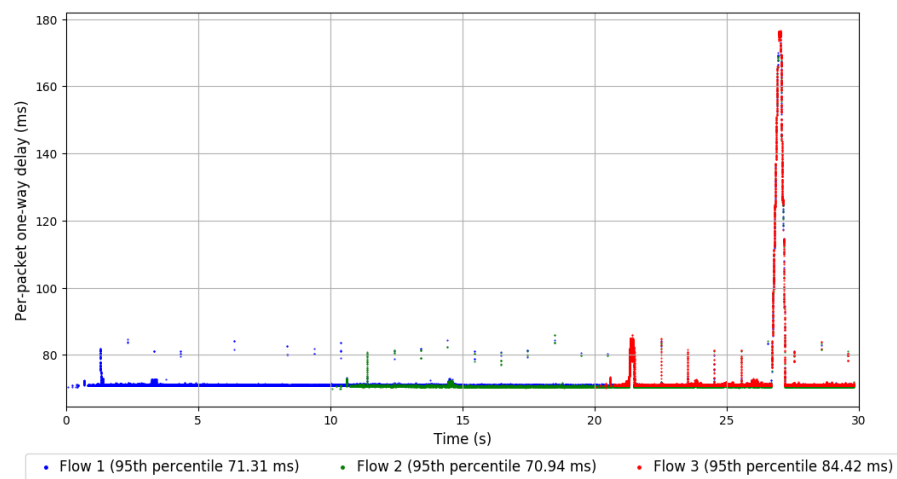
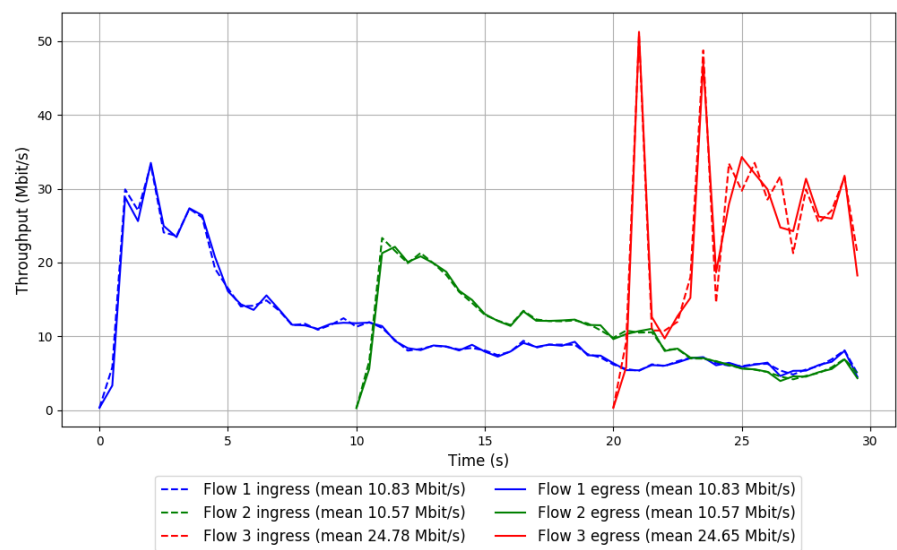


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 10:11:03
End at: 2017-11-16 10:11:33
Local clock offset: 1.513 ms
Remote clock offset: -30.151 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 72.538 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 71.307 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 10.57 Mbit/s
95th percentile per-packet one-way delay: 70.941 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 84.417 ms
Loss rate: 1.75%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 10:30:01

End at: 2017-11-16 10:30:31

Local clock offset: 1.763 ms

Remote clock offset: -37.719 ms

Below is generated by plot.py at 2017-11-16 13:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 76.499 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 75.962 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 77.030 ms

Loss rate: 0.68%

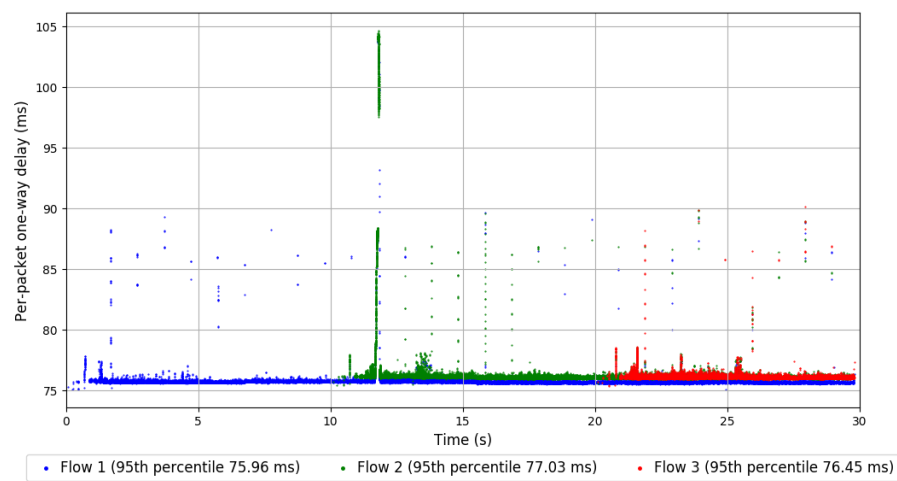
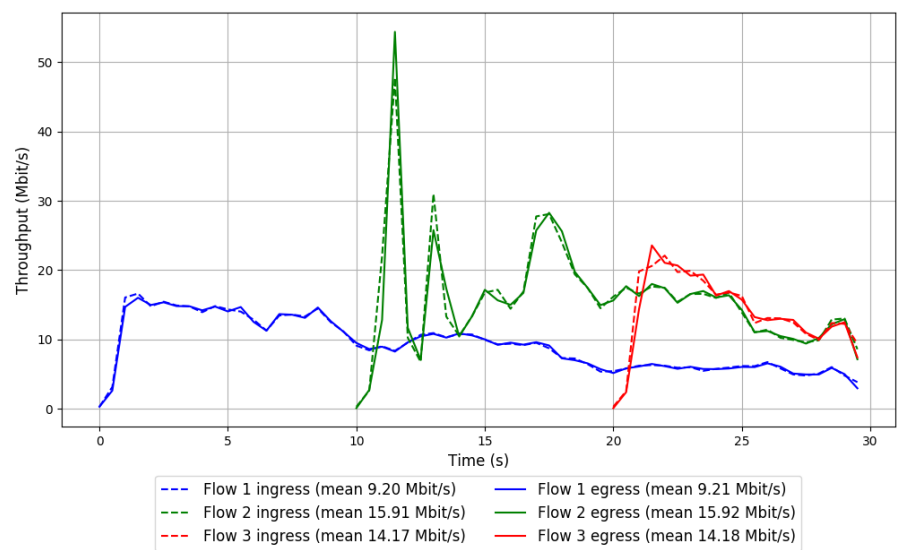
-- Flow 3:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 76.453 ms

Loss rate: 1.55%

Run 10: Report of QUIC Cubic — Data Link

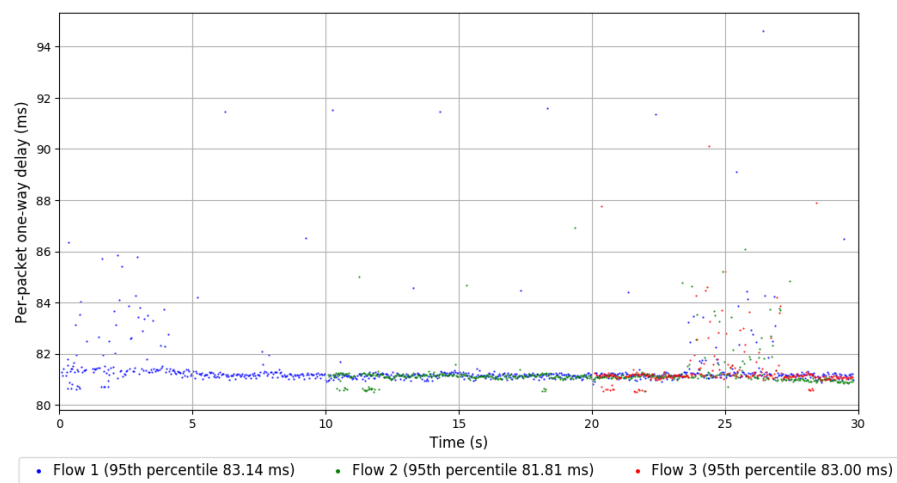
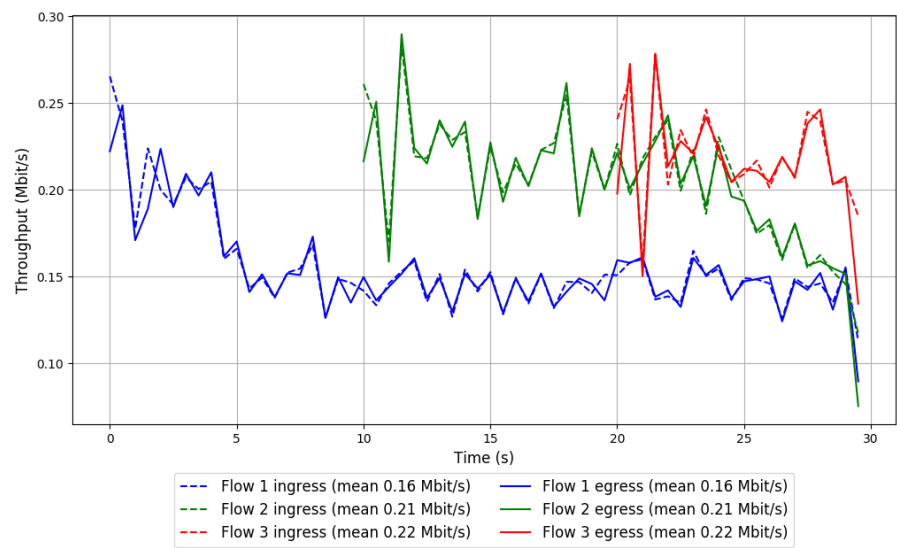


```
Run 1: Statistics of SReAM

Start at: 2017-11-16 07:31:17
End at: 2017-11-16 07:31:47
Local clock offset: -0.062 ms
Remote clock offset: -39.819 ms

# Below is generated by plot.py at 2017-11-16 13:54:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 82.763 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 83.143 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 81.810 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.996 ms
Loss rate: 1.88%
```

Run 1: Report of SReAM — Data Link

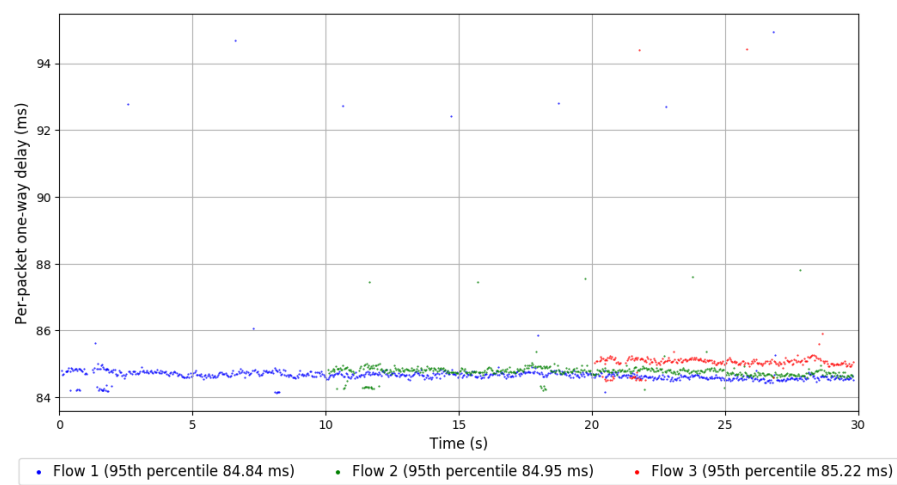
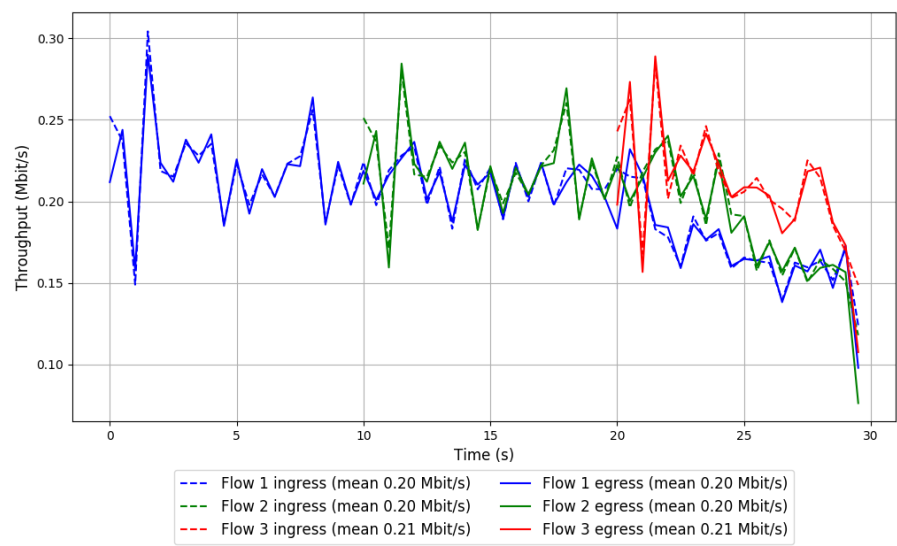


Run 2: Statistics of SReAM

Start at: 2017-11-16 07:51:12
End at: 2017-11-16 07:51:42
Local clock offset: 0.01 ms
Remote clock offset: -42.538 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 85.136 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 84.836 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 84.950 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 85.220 ms
Loss rate: 2.00%

Run 2: Report of SReAM — Data Link

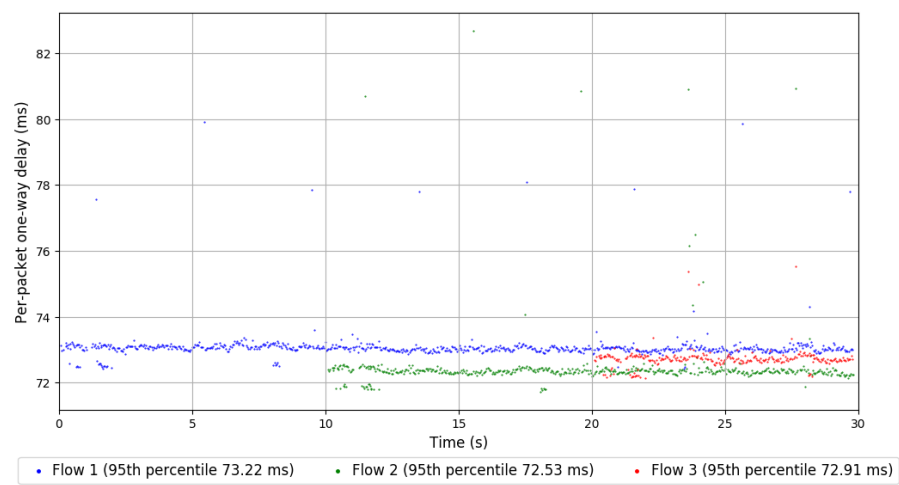
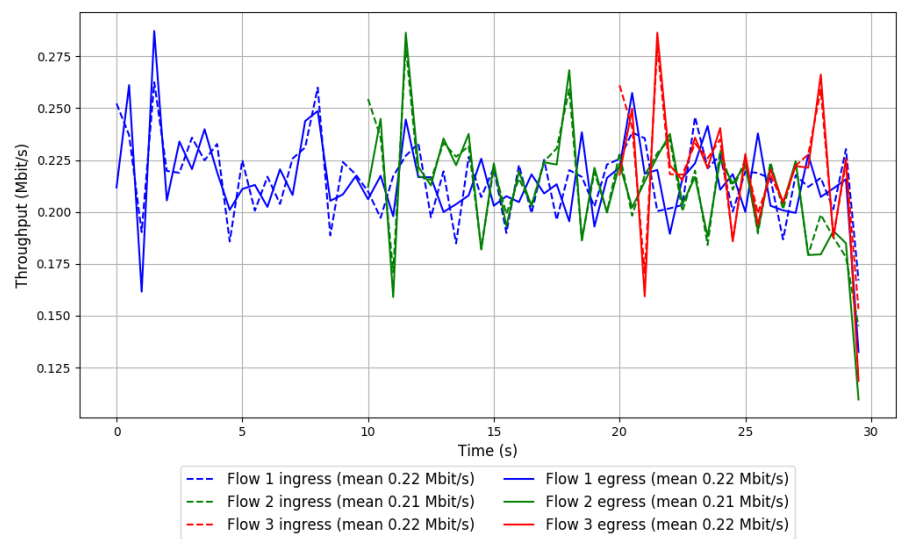


Run 3: Statistics of SReAM

Start at: 2017-11-16 08:11:05
End at: 2017-11-16 08:11:35
Local clock offset: 0.332 ms
Remote clock offset: -29.392 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 73.187 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 73.219 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 72.535 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.913 ms
Loss rate: 1.53%

Run 3: Report of SCRaM — Data Link

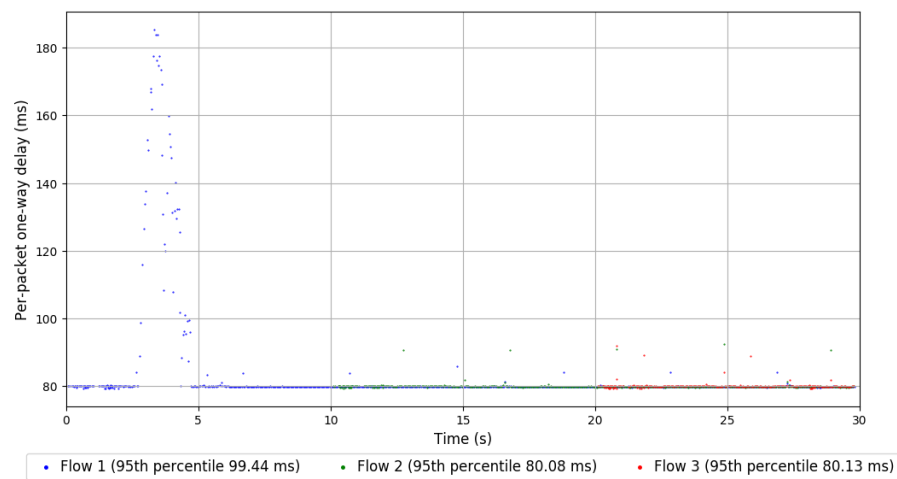
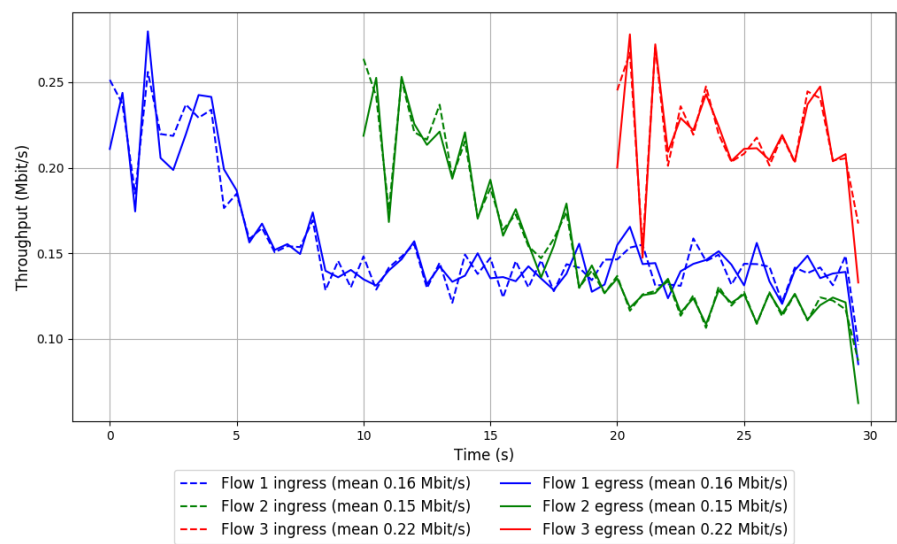


Run 4: Statistics of SReAM

Start at: 2017-11-16 08:31:17
End at: 2017-11-16 08:31:47
Local clock offset: 0.53 ms
Remote clock offset: -36.155 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 80.387 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 99.445 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 80.077 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.128 ms
Loss rate: 1.52%

Run 4: Report of SReAM — Data Link

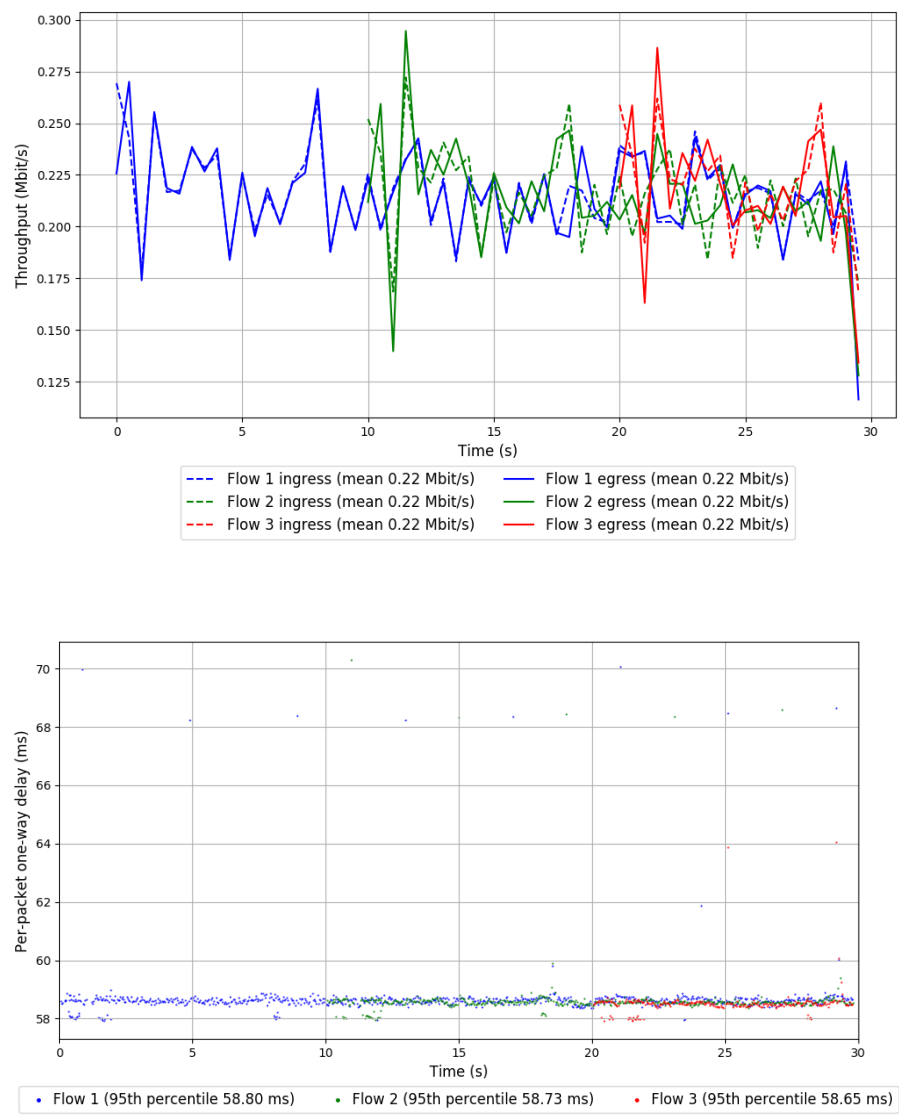


Run 5: Statistics of SReAM

Start at: 2017-11-16 08:51:33
End at: 2017-11-16 08:52:03
Local clock offset: 0.472 ms
Remote clock offset: -14.388 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 58.772 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.796 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.732 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.651 ms
Loss rate: 1.50%

Run 5: Report of SReAM — Data Link

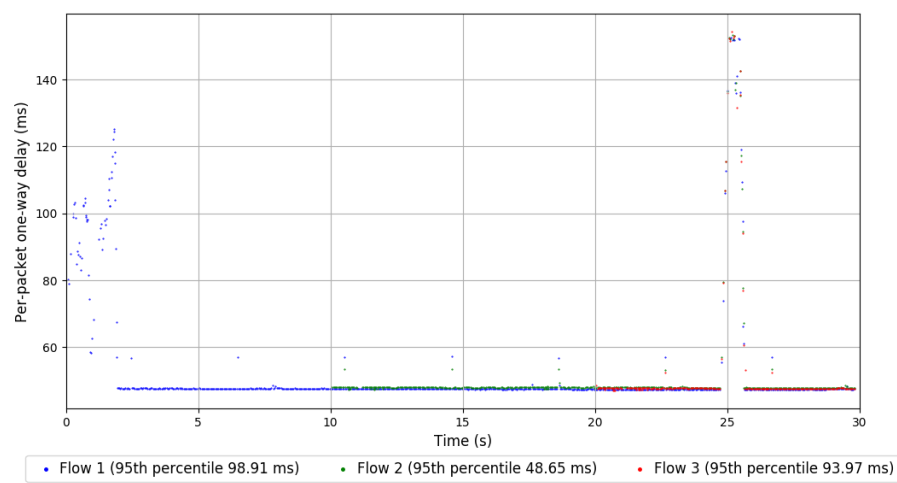
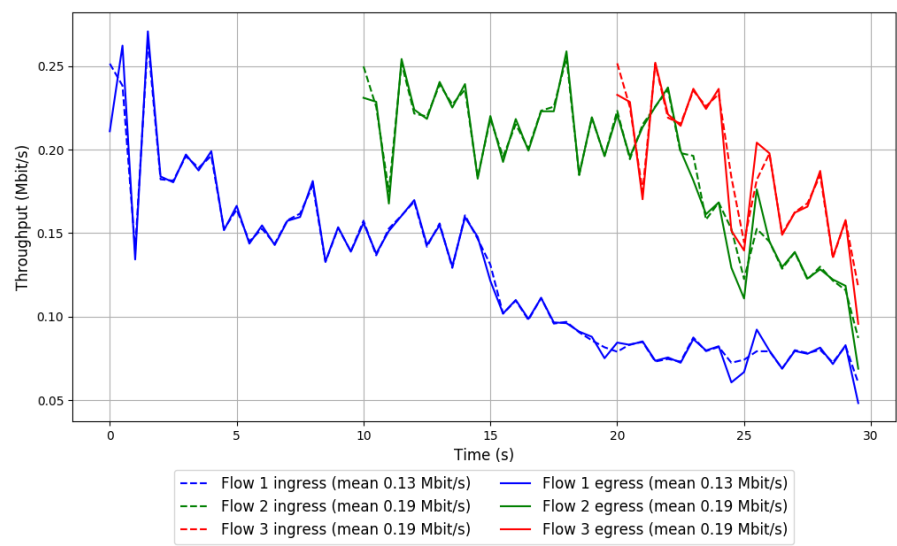


Run 6: Statistics of SCReAM

Start at: 2017-11-16 09:11:39
End at: 2017-11-16 09:12:09
Local clock offset: 0.954 ms
Remote clock offset: -3.528 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 95.452 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 98.905 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 48.649 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 93.971 ms
Loss rate: 1.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-11-16 09:30:38

End at: 2017-11-16 09:31:08

Local clock offset: 1.059 ms

Remote clock offset: 3.51 ms

Below is generated by plot.py at 2017-11-16 13:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 40.180 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.925 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 39.860 ms

Loss rate: 0.78%

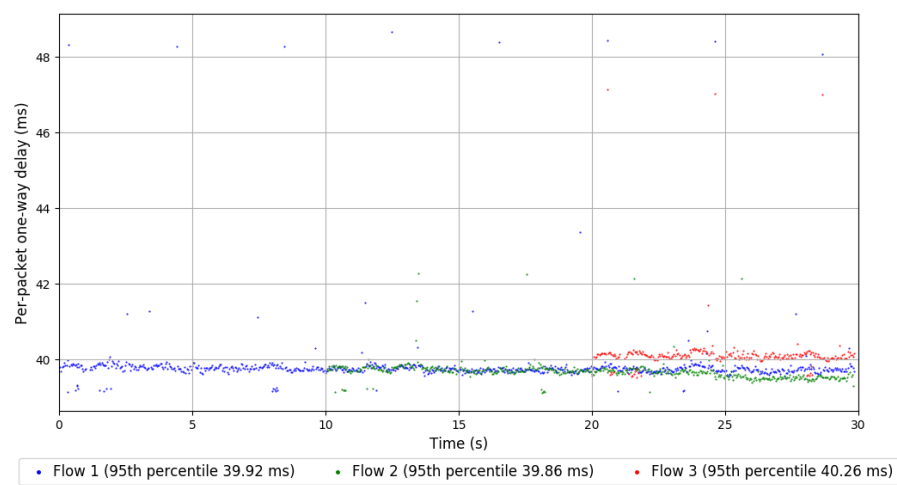
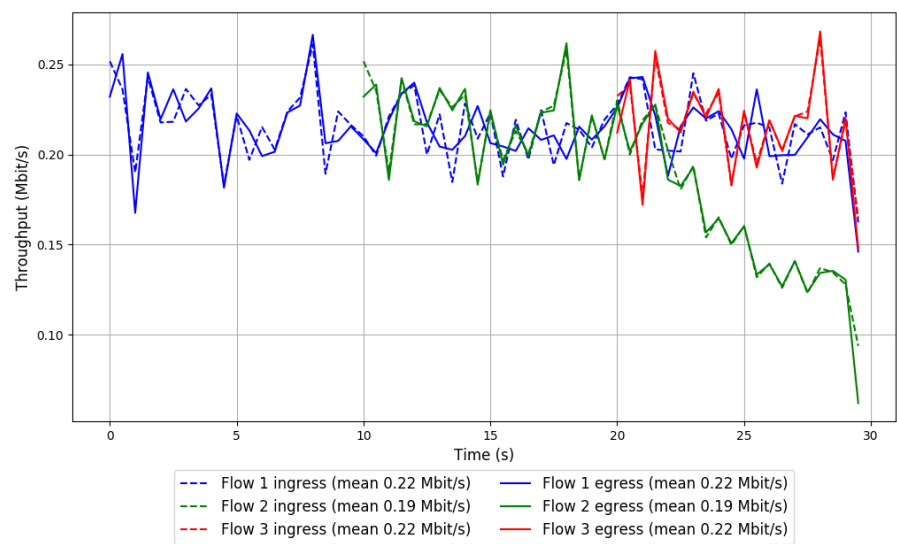
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 40.260 ms

Loss rate: 0.75%

Run 7: Report of SReAM — Data Link

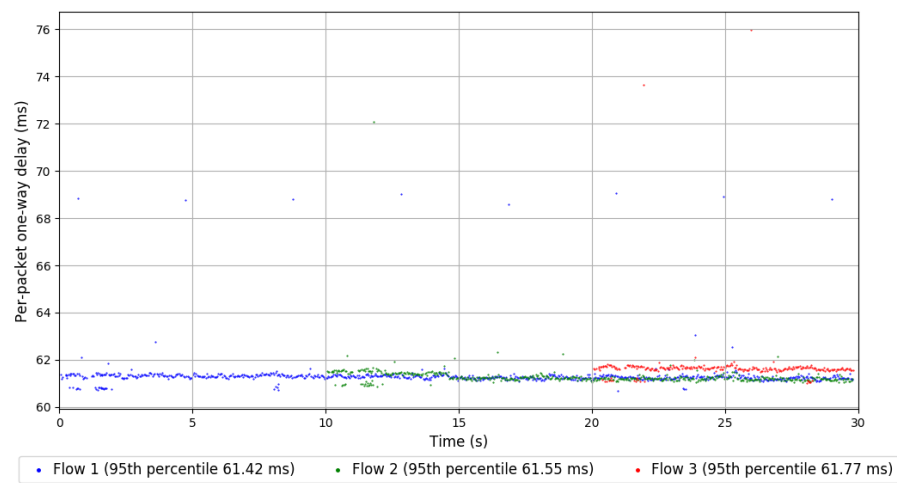
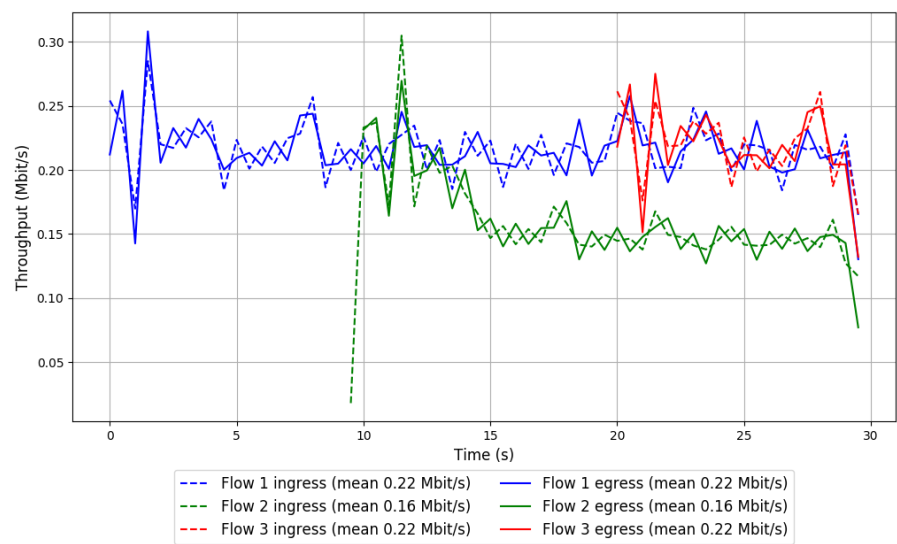


Run 8: Statistics of SReAM

Start at: 2017-11-16 09:50:03
End at: 2017-11-16 09:50:33
Local clock offset: 1.338 ms
Remote clock offset: -18.569 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 61.691 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.424 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 61.549 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.765 ms
Loss rate: 1.48%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-16 10:09:48

End at: 2017-11-16 10:10:18

Local clock offset: 1.406 ms

Remote clock offset: 0.396 ms

Below is generated by plot.py at 2017-11-16 13:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 40.353 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 40.271 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 40.389 ms

Loss rate: 0.83%

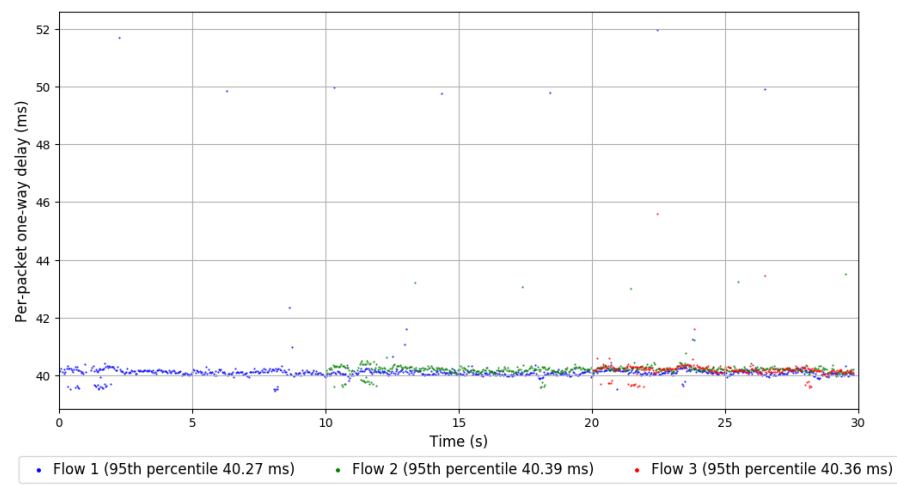
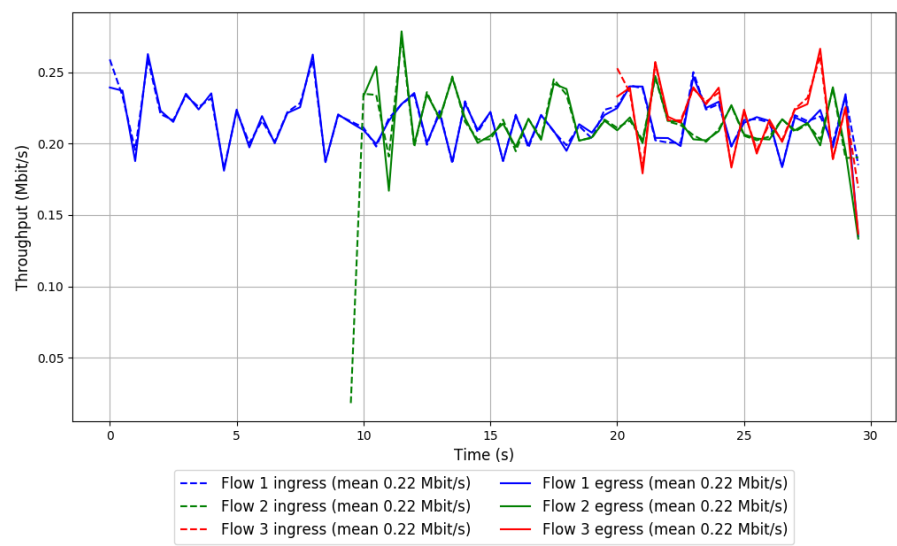
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 40.362 ms

Loss rate: 1.11%

Run 9: Report of SReAM — Data Link

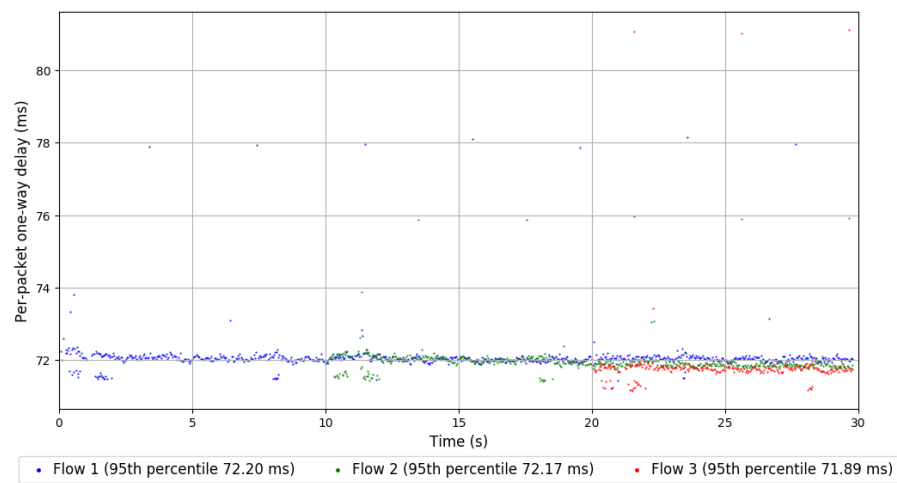
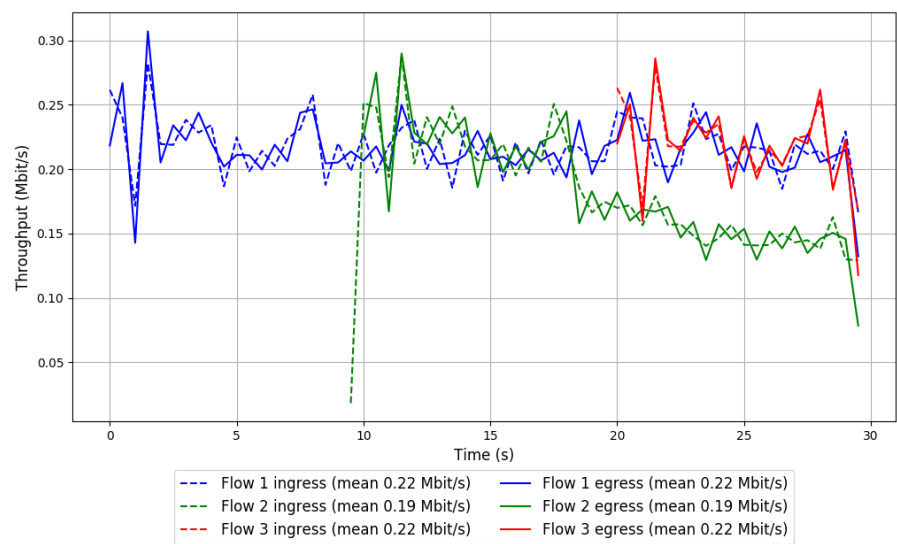


Run 10: Statistics of SReAM

Start at: 2017-11-16 10:28:46
End at: 2017-11-16 10:29:16
Local clock offset: 1.731 ms
Remote clock offset: -33.245 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 72.182 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.197 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 72.174 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.889 ms
Loss rate: 1.86%

Run 10: Report of SReAM — Data Link

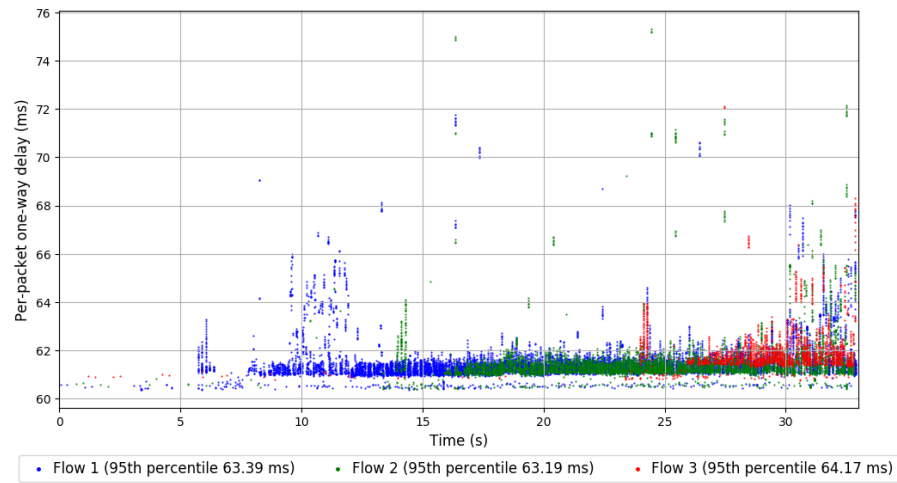
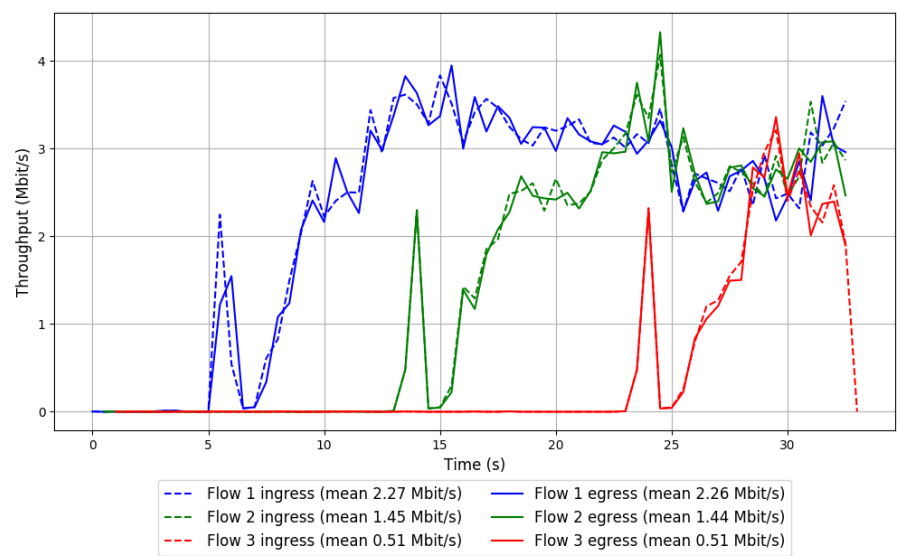


Run 1: Statistics of WebRTC media

Start at: 2017-11-16 07:25:50
End at: 2017-11-16 07:26:20
Local clock offset: -0.14 ms
Remote clock offset: -20.283 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.392 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 63.192 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 64.171 ms
Loss rate: 1.44%

Run 1: Report of WebRTC media — Data Link

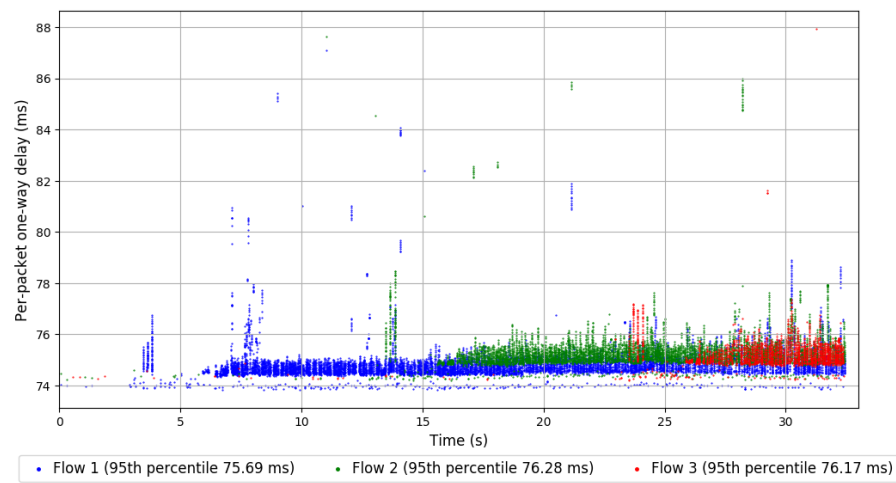
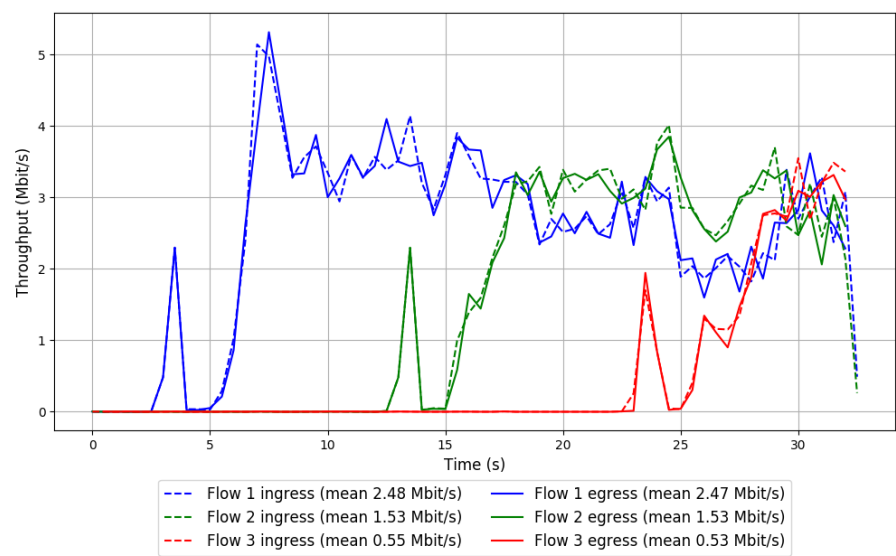


Run 2: Statistics of WebRTC media

Start at: 2017-11-16 07:45:51
End at: 2017-11-16 07:46:21
Local clock offset: 0.086 ms
Remote clock offset: -32.85 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 76.027 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 75.685 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 76.276 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 76.173 ms
Loss rate: 3.22%

Run 2: Report of WebRTC media — Data Link

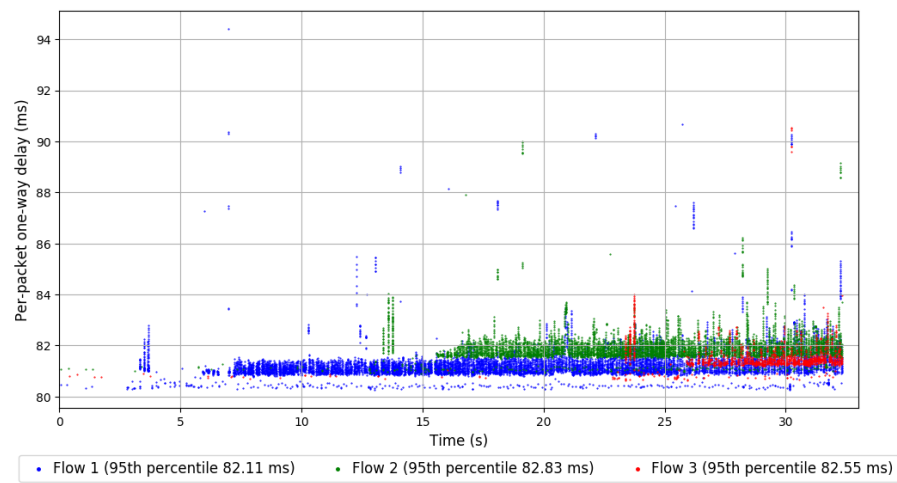
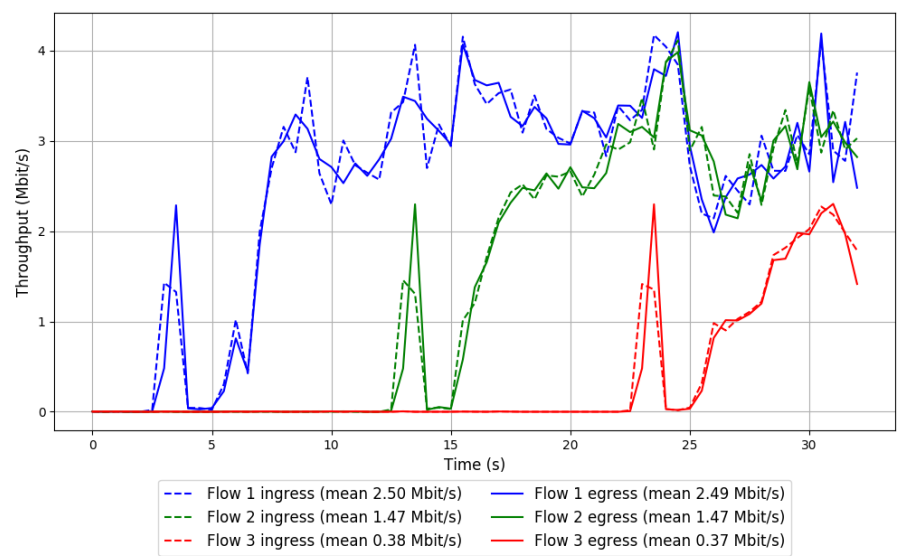


Run 3: Statistics of WebRTC media

Start at: 2017-11-16 08:05:28
End at: 2017-11-16 08:05:58
Local clock offset: 0.275 ms
Remote clock offset: -38.157 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 82.533 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 82.114 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 82.825 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 82.551 ms
Loss rate: 3.01%

Run 3: Report of WebRTC media — Data Link

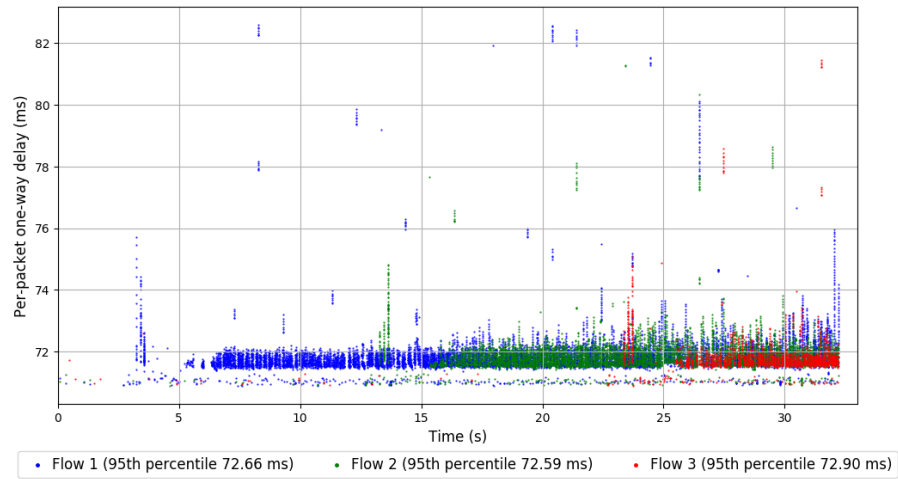
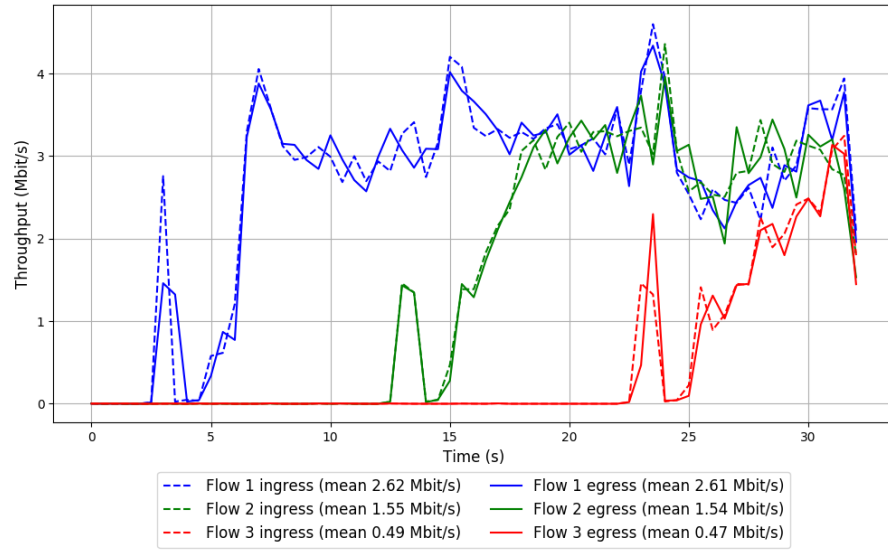


Run 4: Statistics of WebRTC media

Start at: 2017-11-16 08:25:27
End at: 2017-11-16 08:25:57
Local clock offset: 0.396 ms
Remote clock offset: -28.229 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 72.662 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 72.662 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 72.595 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 72.897 ms
Loss rate: 3.41%

Run 4: Report of WebRTC media — Data Link

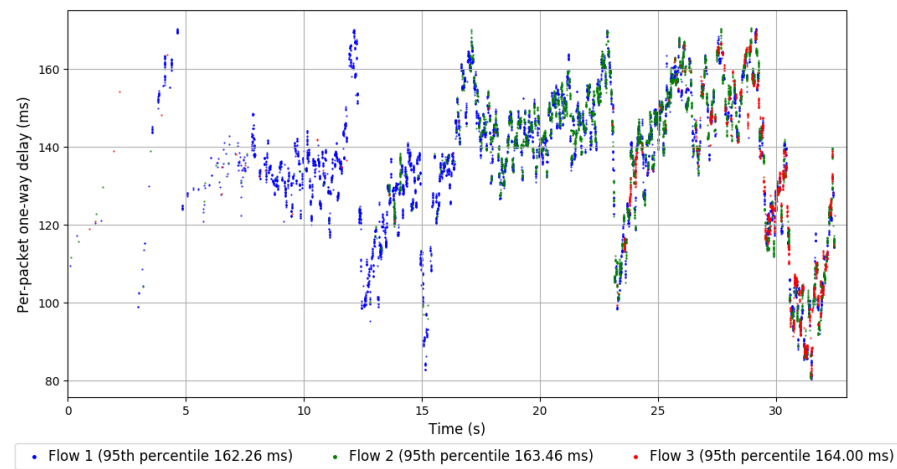
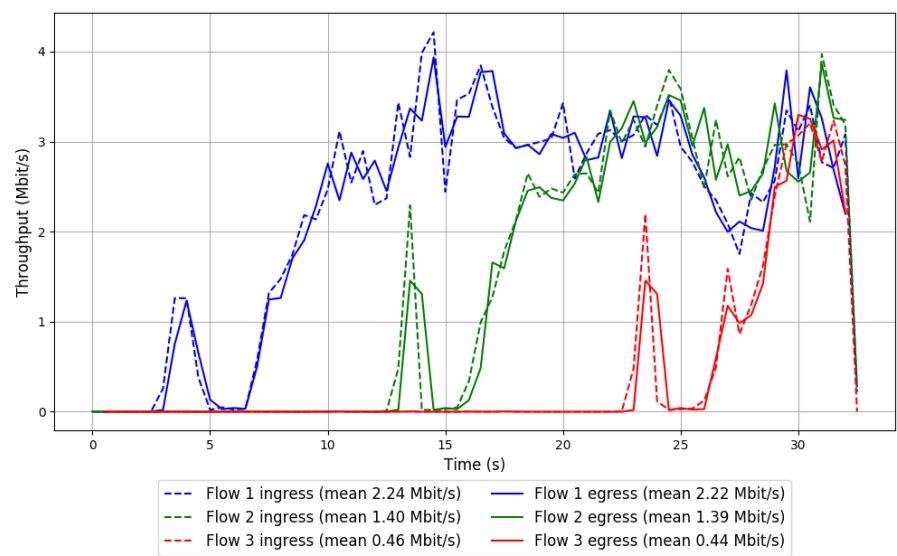


Run 5: Statistics of WebRTC media

Start at: 2017-11-16 08:45:54
End at: 2017-11-16 08:46:24
Local clock offset: 0.512 ms
Remote clock offset: -20.037 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 162.651 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 162.256 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 163.456 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 163.998 ms
Loss rate: 4.29%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-16 09:06:23

End at: 2017-11-16 09:06:53

Local clock offset: 0.717 ms

Remote clock offset: 2.924 ms

Below is generated by plot.py at 2017-11-16 13:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 42.603 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 42.588 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 42.712 ms

Loss rate: 0.43%

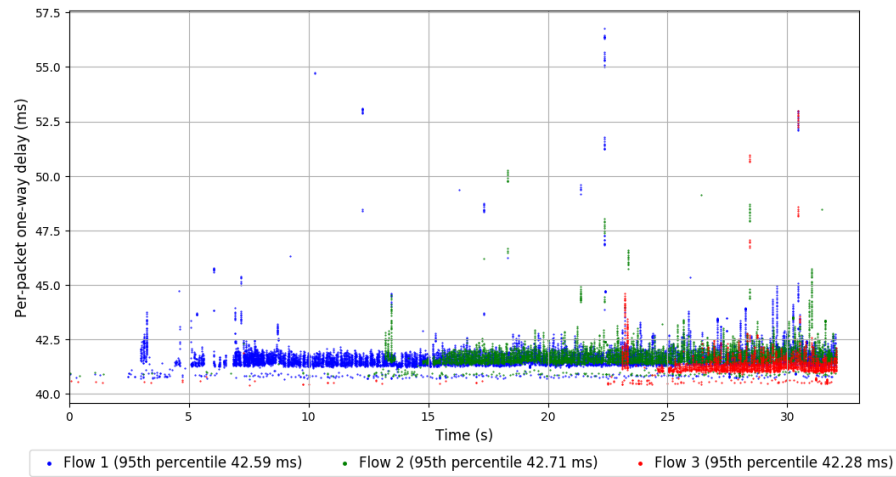
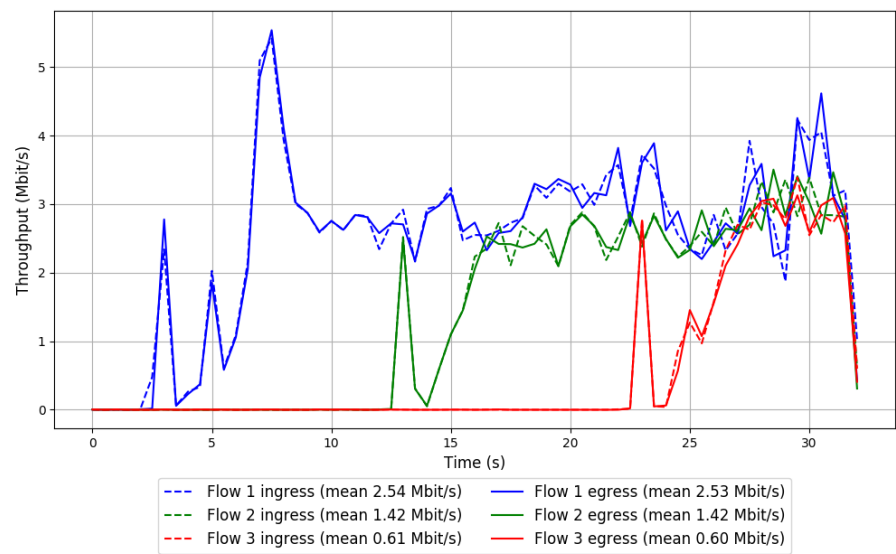
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 42.277 ms

Loss rate: 1.63%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-16 09:25:16

End at: 2017-11-16 09:25:46

Local clock offset: 0.995 ms

Remote clock offset: 1.756 ms

Below is generated by plot.py at 2017-11-16 13:54:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 43.166 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 43.171 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 42.819 ms

Loss rate: 0.84%

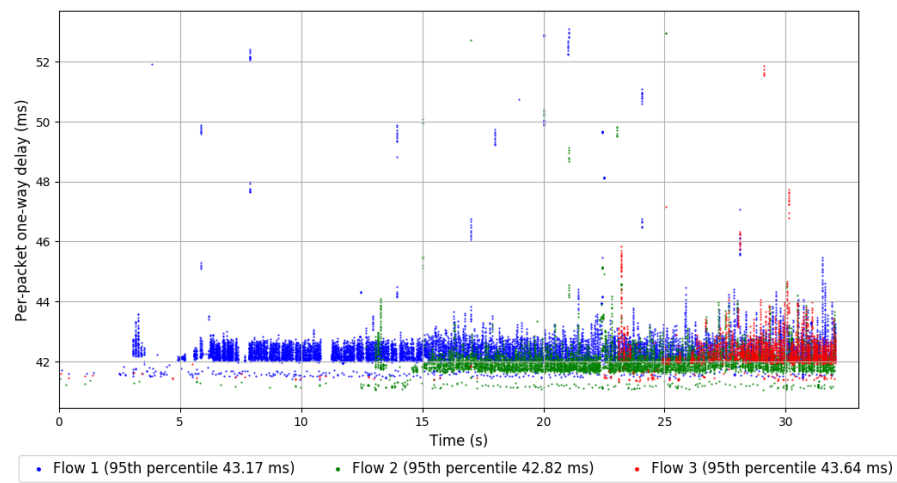
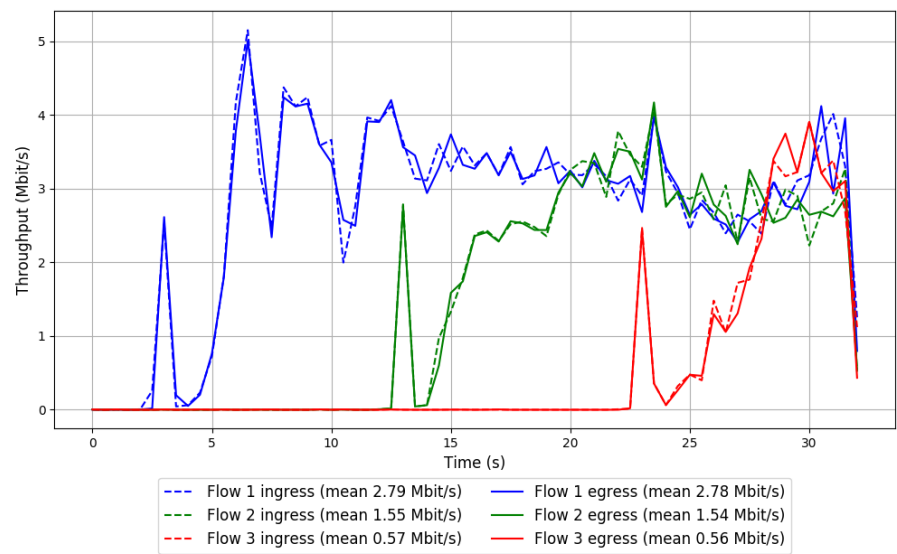
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 43.637 ms

Loss rate: 2.09%

Run 7: Report of WebRTC media — Data Link

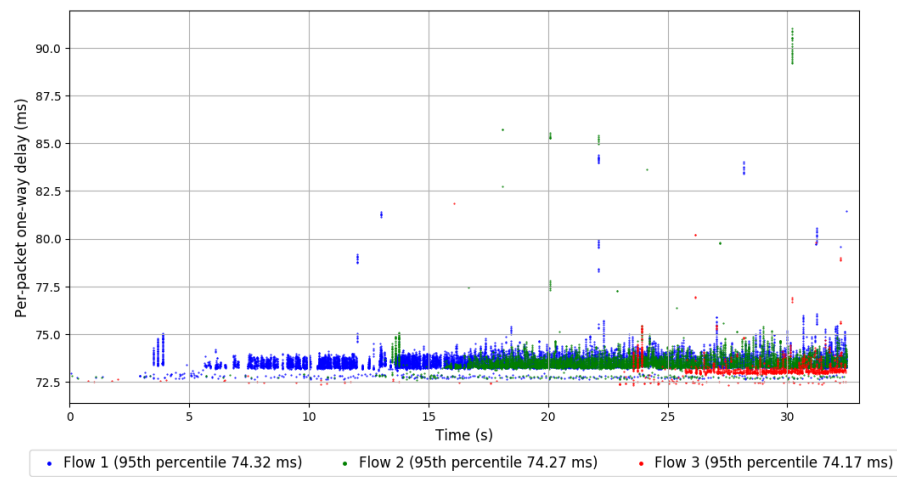
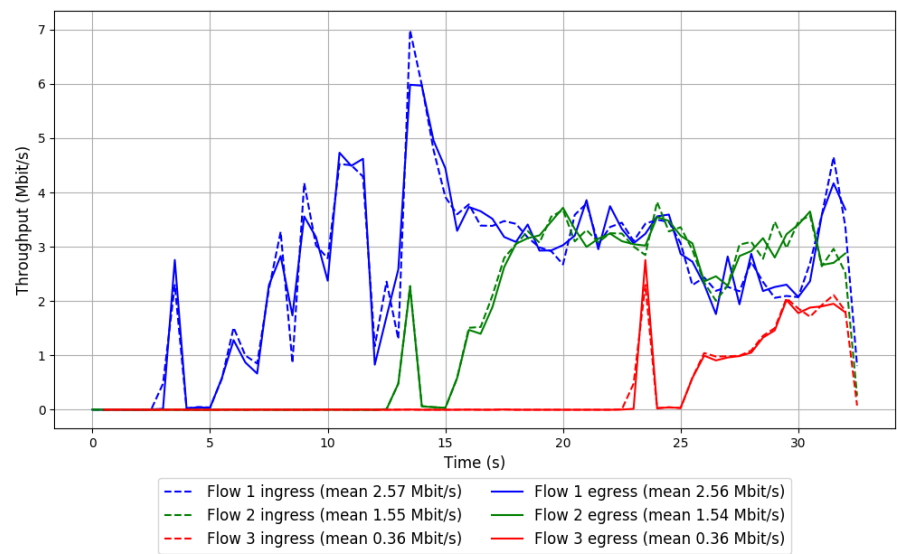


Run 8: Statistics of WebRTC media

Start at: 2017-11-16 09:44:38
End at: 2017-11-16 09:45:08
Local clock offset: 1.333 ms
Remote clock offset: -30.339 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 74.297 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 74.324 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 74.274 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 74.175 ms
Loss rate: 2.16%

Run 8: Report of WebRTC media — Data Link

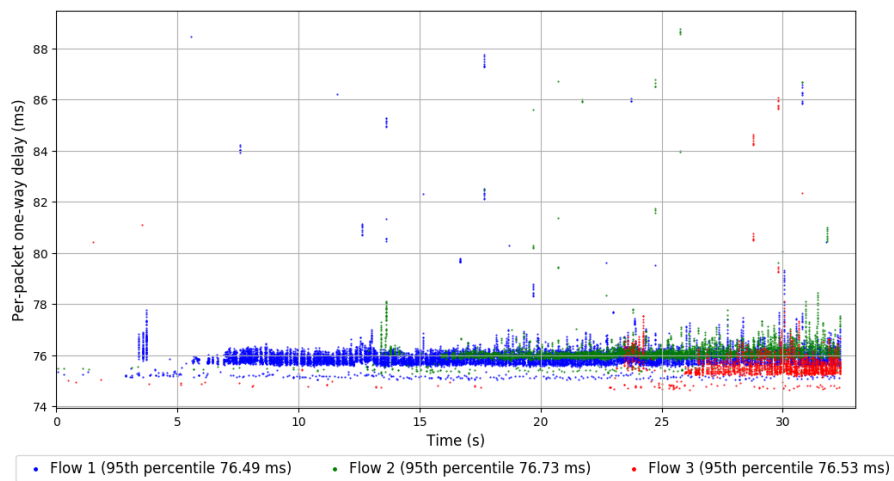
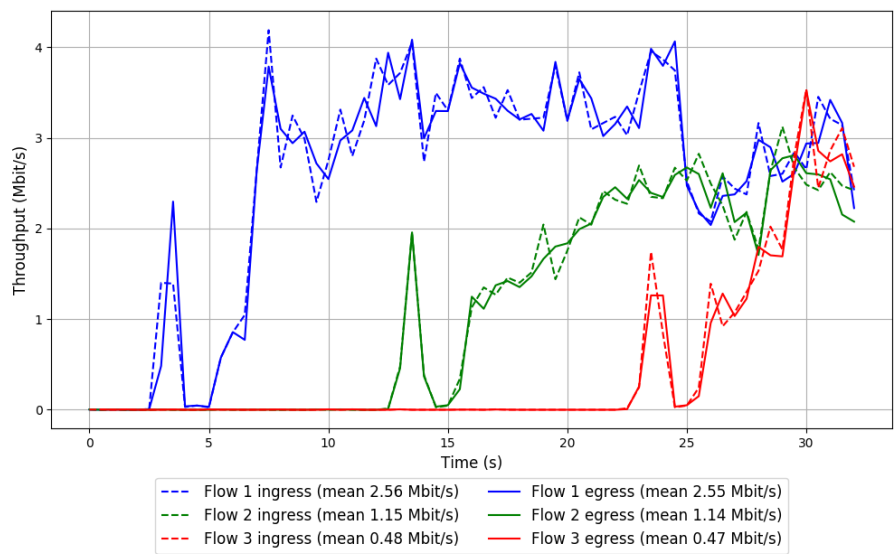


Run 9: Statistics of WebRTC media

Start at: 2017-11-16 10:04:10
End at: 2017-11-16 10:04:40
Local clock offset: 1.195 ms
Remote clock offset: -34.732 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 76.584 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 76.490 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 76.727 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 76.534 ms
Loss rate: 2.71%

Run 9: Report of WebRTC media — Data Link

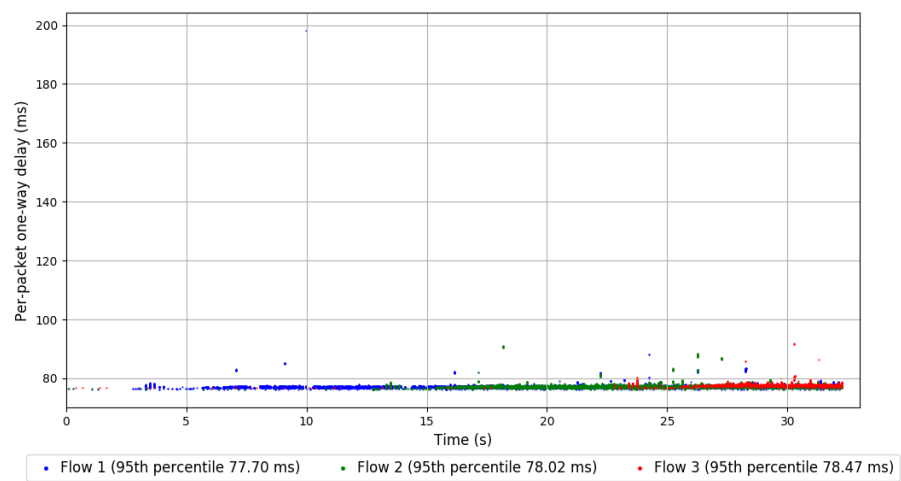
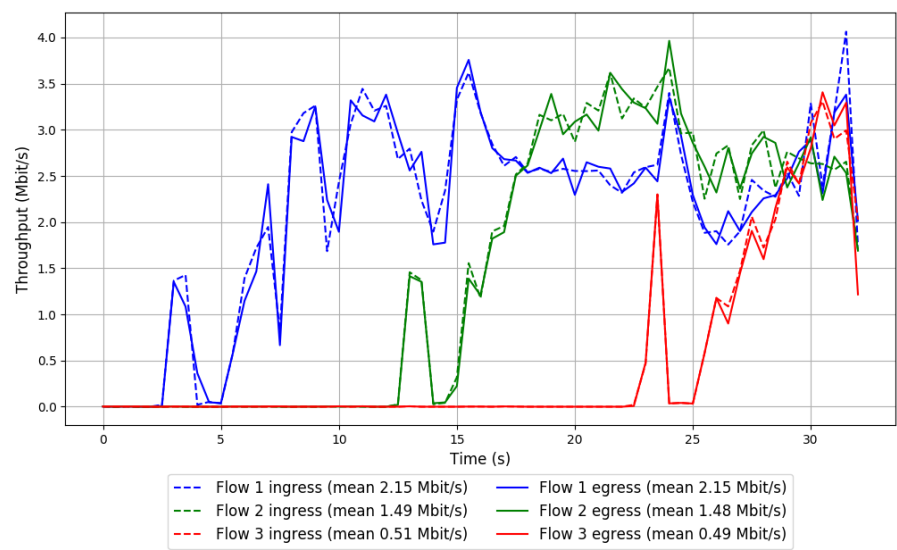


Run 10: Statistics of WebRTC media

Start at: 2017-11-16 10:23:25
End at: 2017-11-16 10:23:55
Local clock offset: 1.522 ms
Remote clock offset: -37.793 ms

Below is generated by plot.py at 2017-11-16 13:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 77.974 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 77.699 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 78.022 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 78.472 ms
Loss rate: 2.97%

Run 10: Report of WebRTC media — Data Link

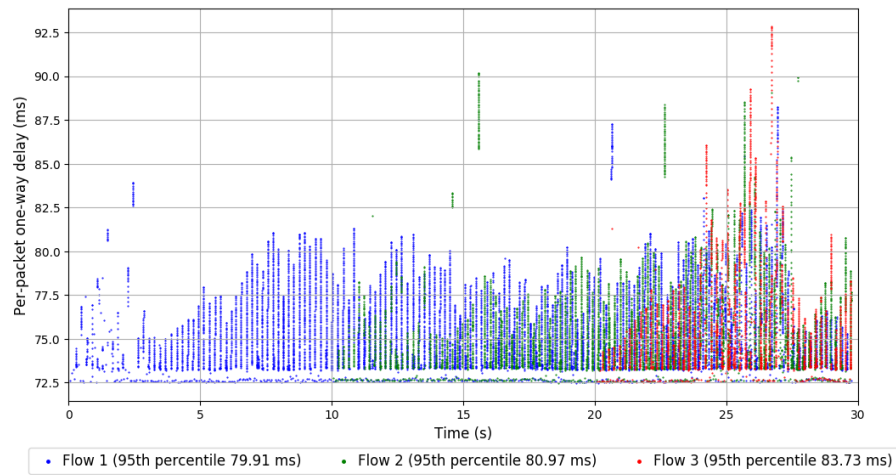
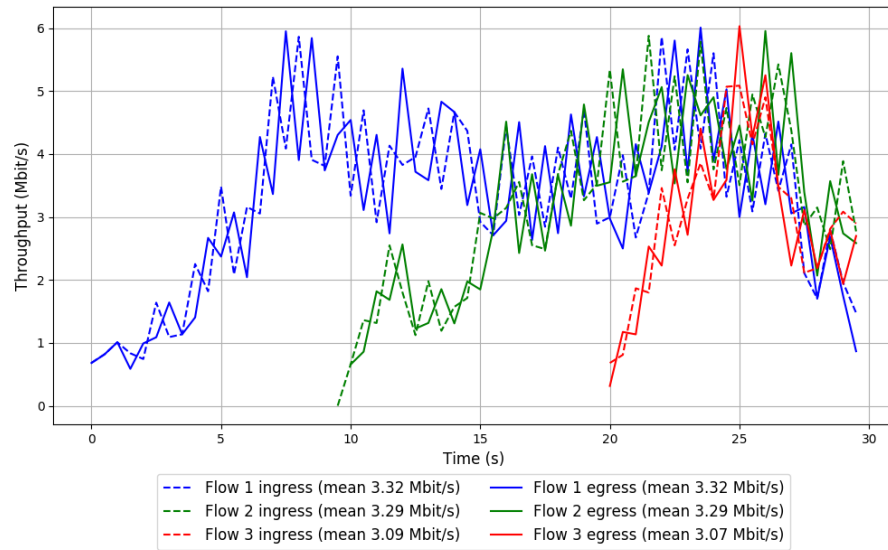


Run 1: Statistics of Sprout

Start at: 2017-11-16 07:29:58
End at: 2017-11-16 07:30:28
Local clock offset: -0.201 ms
Remote clock offset: -32.309 ms

Below is generated by plot.py at 2017-11-16 13:54:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 80.657 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 79.912 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 80.968 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 83.735 ms
Loss rate: 2.58%

Run 1: Report of Sprout — Data Link

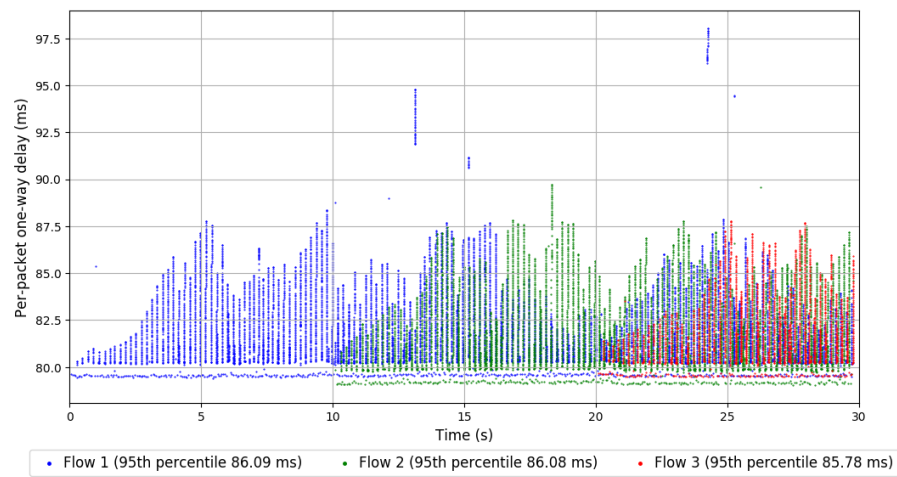
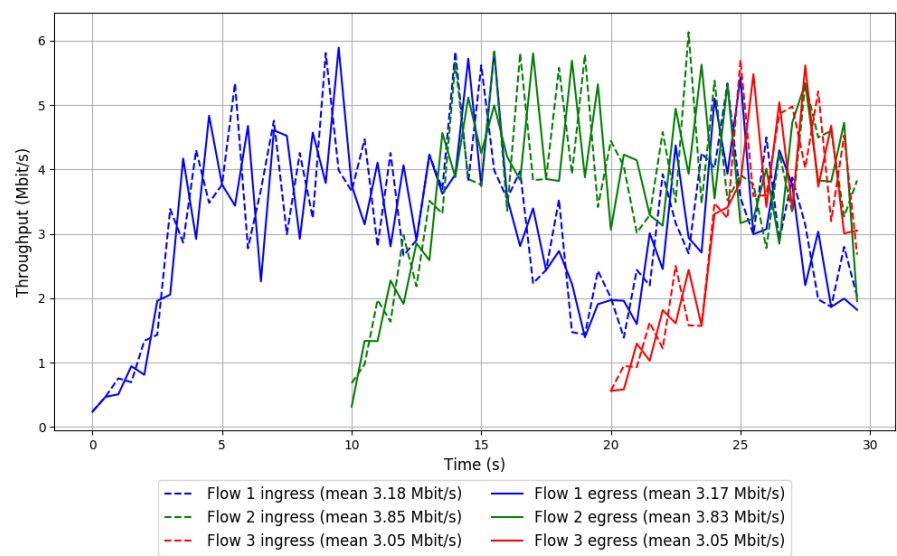


Run 2: Statistics of Sprout

Start at: 2017-11-16 07:49:54
End at: 2017-11-16 07:50:24
Local clock offset: 0.126 ms
Remote clock offset: -37.507 ms

```
# Below is generated by plot.py at 2017-11-16 13:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 86.035 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 86.090 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 86.078 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 3.05 Mbit/s
95th percentile per-packet one-way delay: 85.781 ms
Loss rate: 1.95%
```

Run 2: Report of Sprout — Data Link

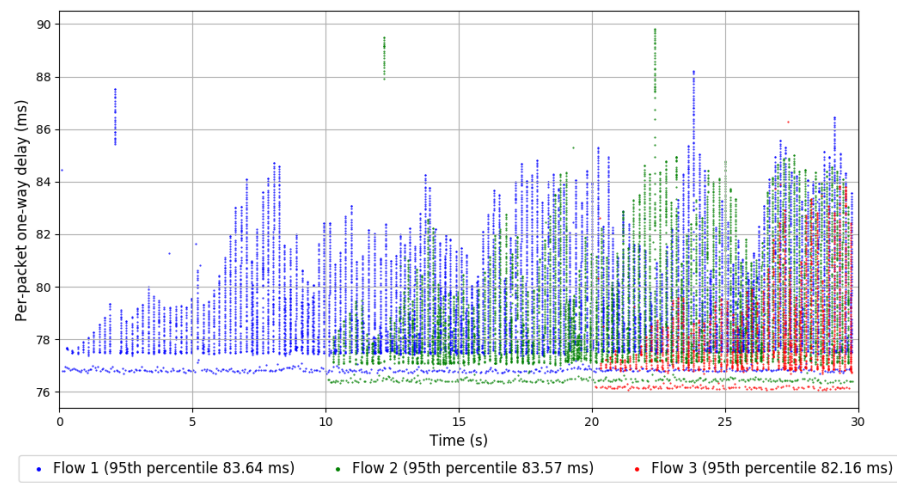
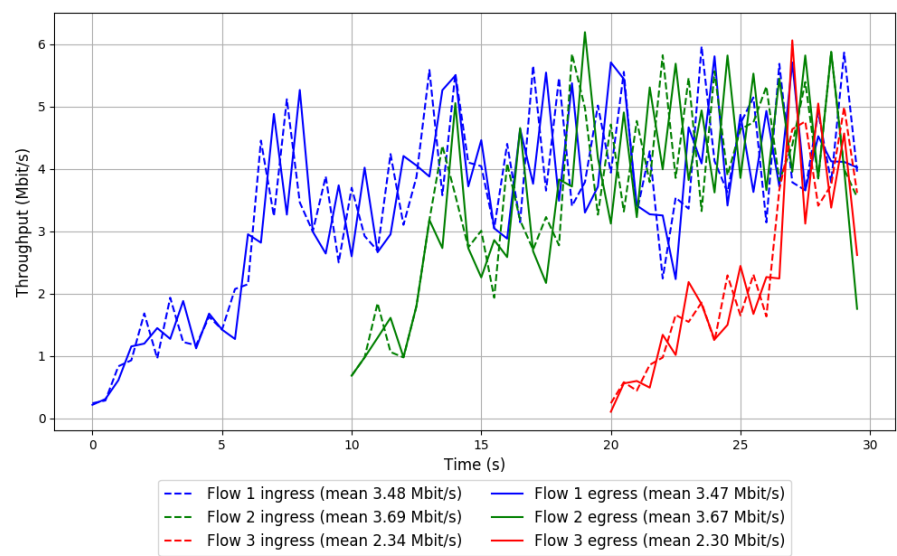


Run 3: Statistics of Sprout

Start at: 2017-11-16 08:09:48
End at: 2017-11-16 08:10:18
Local clock offset: 0.329 ms
Remote clock offset: -33.736 ms

```
# Below is generated by plot.py at 2017-11-16 13:54:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 83.482 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 83.636 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 83.567 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 82.160 ms
Loss rate: 3.87%
```


Run 3: Report of Sprout — Data Link

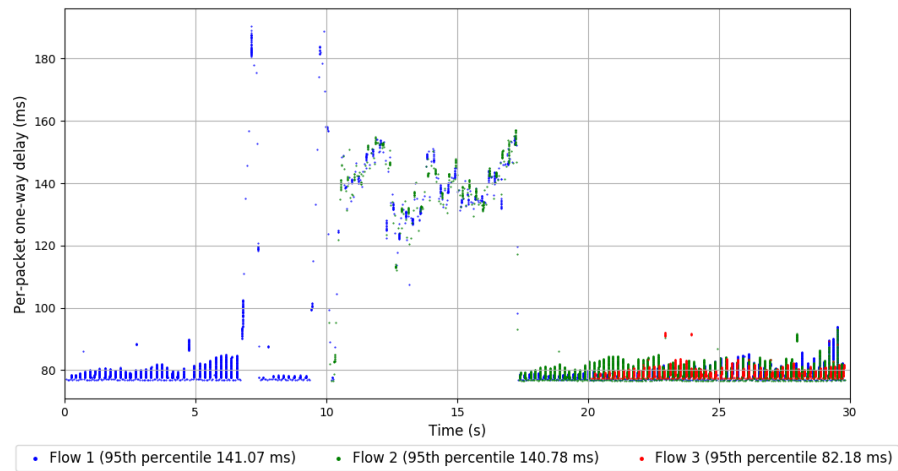
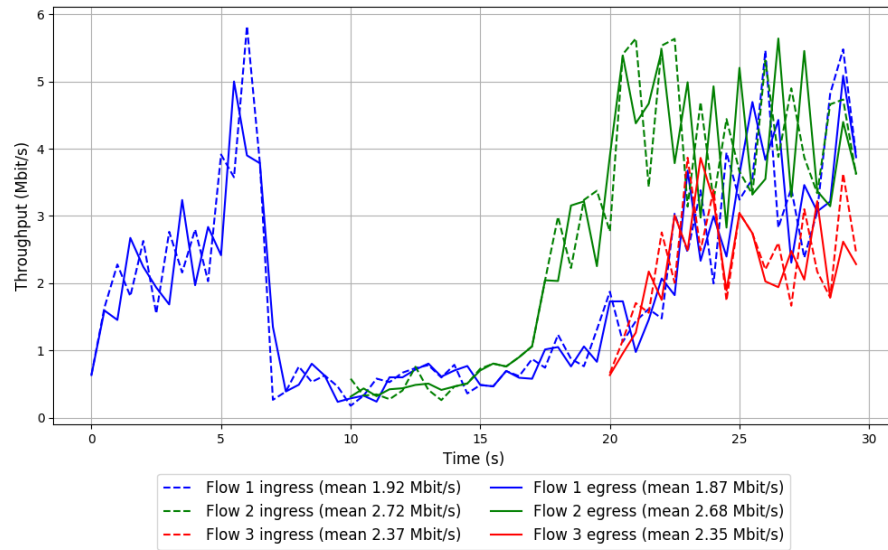


Run 4: Statistics of Sprout

Start at: 2017-11-16 08:29:56
End at: 2017-11-16 08:30:26
Local clock offset: 0.529 ms
Remote clock offset: -33.544 ms

```
# Below is generated by plot.py at 2017-11-16 13:54:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 137.636 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 141.074 ms
Loss rate: 2.86%
-- Flow 2:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 140.780 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 82.180 ms
Loss rate: 2.69%
```

Run 4: Report of Sprout — Data Link

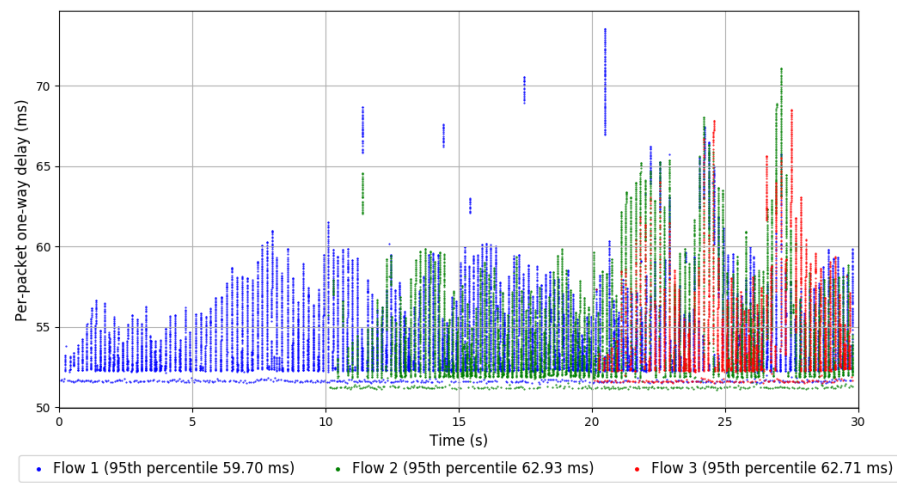
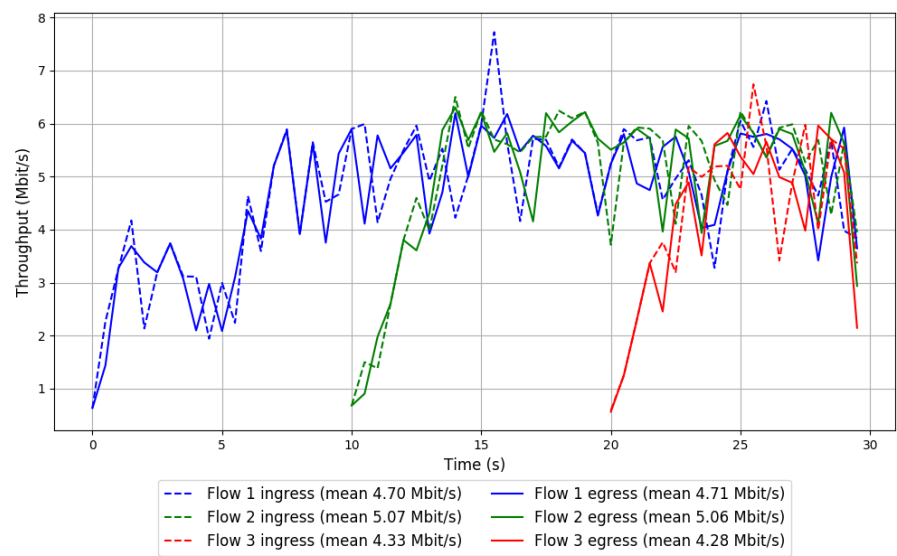


Run 5: Statistics of Sprout

Start at: 2017-11-16 08:50:17
End at: 2017-11-16 08:50:47
Local clock offset: 0.612 ms
Remote clock offset: -7.462 ms

Below is generated by plot.py at 2017-11-16 13:55:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 62.051 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 59.697 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 62.929 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 62.712 ms
Loss rate: 2.24%

Run 5: Report of Sprout — Data Link

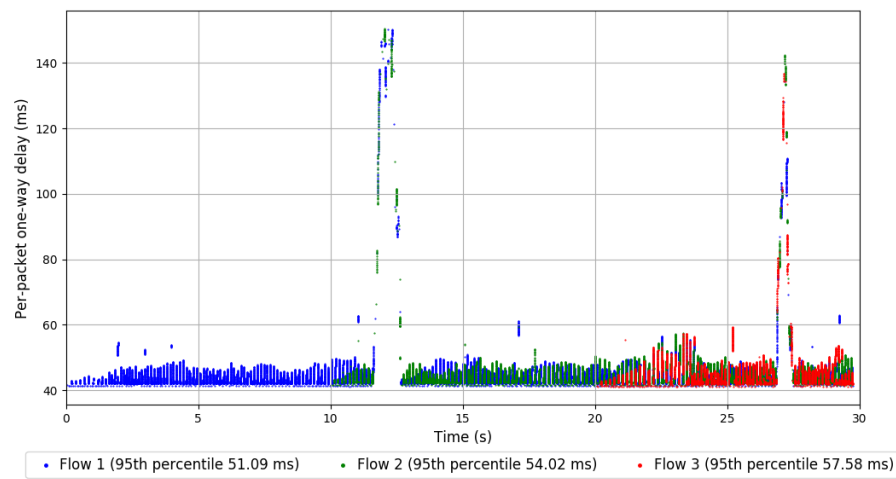
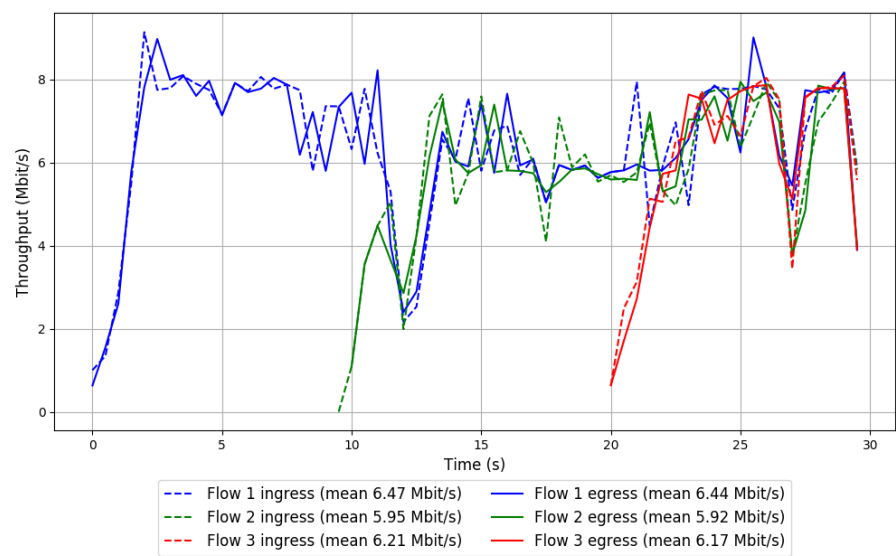


Run 6: Statistics of Sprout

Start at: 2017-11-16 09:10:24
End at: 2017-11-16 09:10:54
Local clock offset: 0.919 ms
Remote clock offset: 2.7 ms

```
# Below is generated by plot.py at 2017-11-16 13:55:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.37 Mbit/s
95th percentile per-packet one-way delay: 53.658 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 5.92 Mbit/s
95th percentile per-packet one-way delay: 54.019 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 57.575 ms
Loss rate: 1.74%
```

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 09:29:25

End at: 2017-11-16 09:29:55

Local clock offset: 1.009 ms

Remote clock offset: 3.262 ms

Below is generated by plot.py at 2017-11-16 13:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 46.984 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 46.681 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 47.494 ms

Loss rate: 0.76%

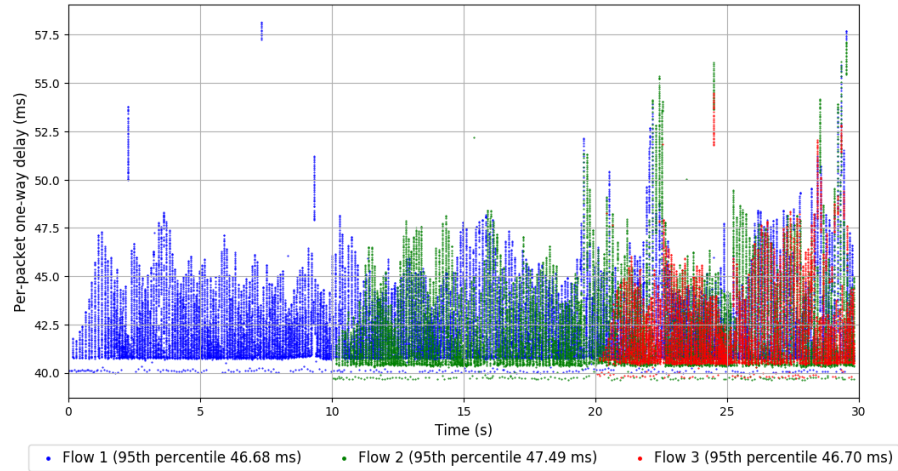
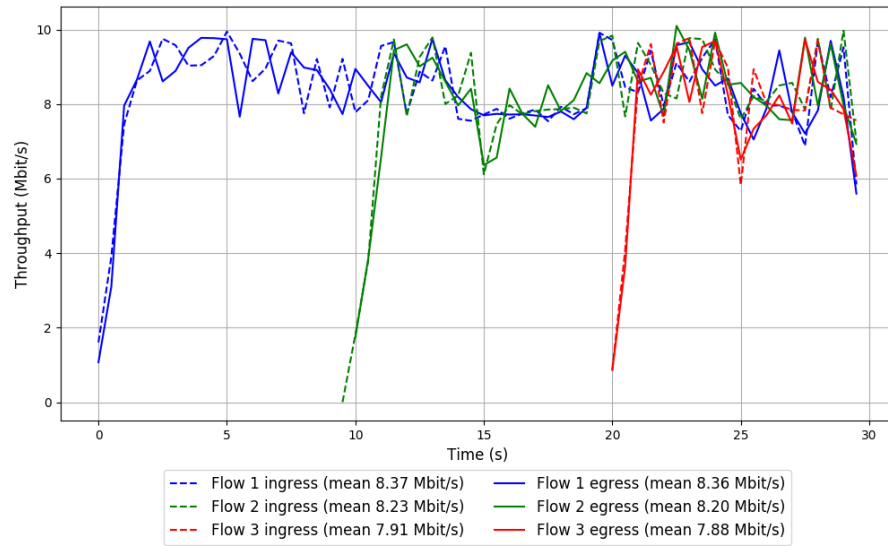
-- Flow 3:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 46.697 ms

Loss rate: 1.37%

Run 7: Report of Sprout — Data Link

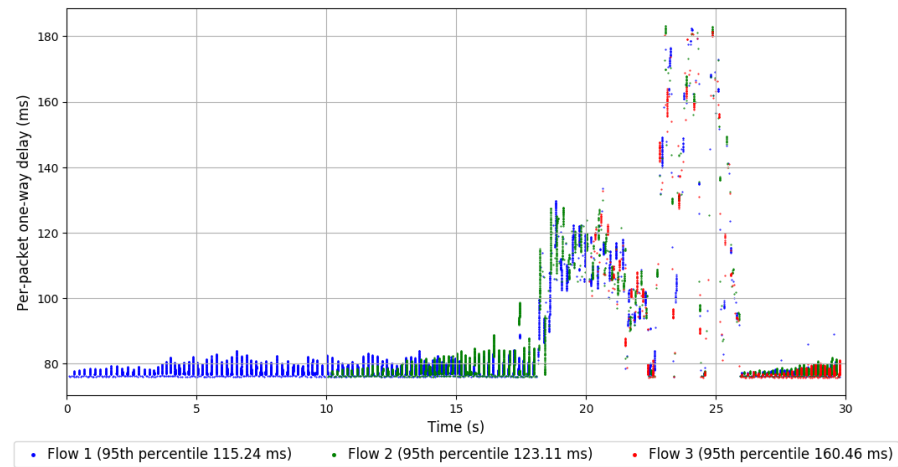
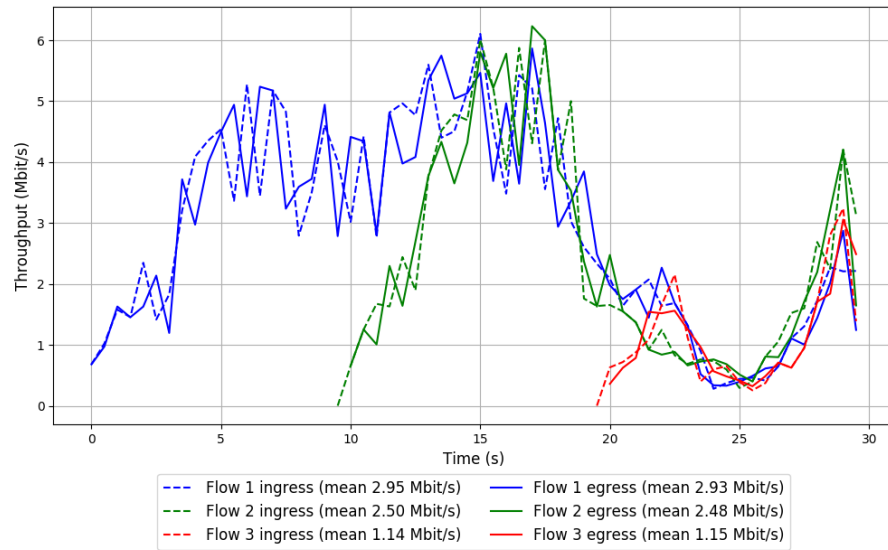


Run 8: Statistics of Sprout

Start at: 2017-11-16 09:48:47
End at: 2017-11-16 09:49:17
Local clock offset: 1.372 ms
Remote clock offset: -33.849 ms

Below is generated by plot.py at 2017-11-16 13:55:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.95 Mbit/s
95th percentile per-packet one-way delay: 121.127 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 115.237 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 123.107 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 160.456 ms
Loss rate: 0.34%

Run 8: Report of Sprout — Data Link

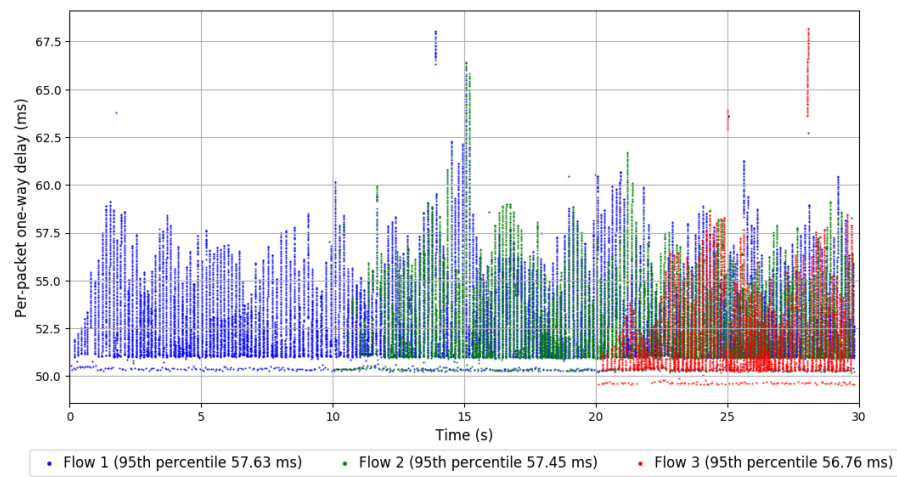
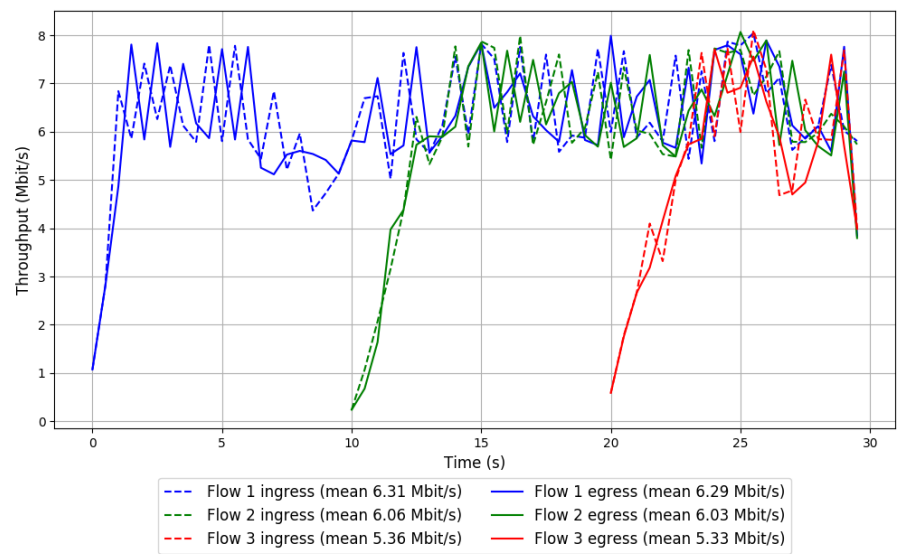


Run 9: Statistics of Sprout

Start at: 2017-11-16 10:08:34
End at: 2017-11-16 10:09:04
Local clock offset: 1.286 ms
Remote clock offset: -9.992 ms

Below is generated by plot.py at 2017-11-16 13:55:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 57.468 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 57.634 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 6.03 Mbit/s
95th percentile per-packet one-way delay: 57.446 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 56.758 ms
Loss rate: 2.05%

Run 9: Report of Sprout — Data Link

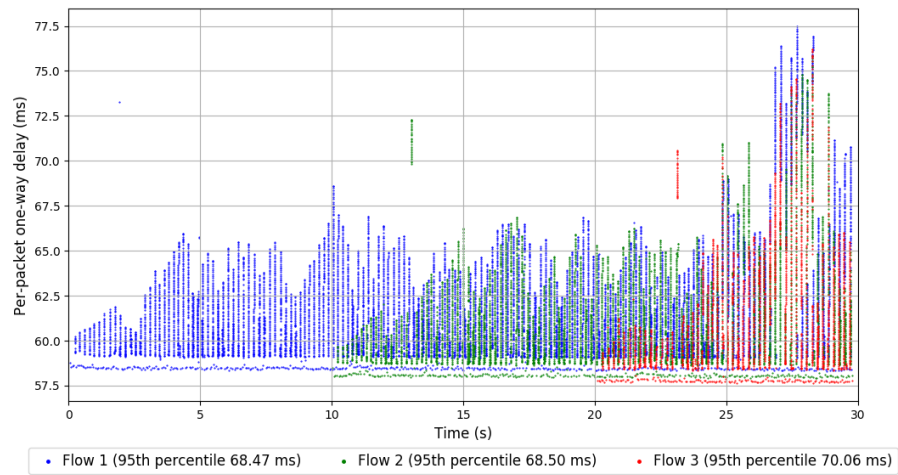
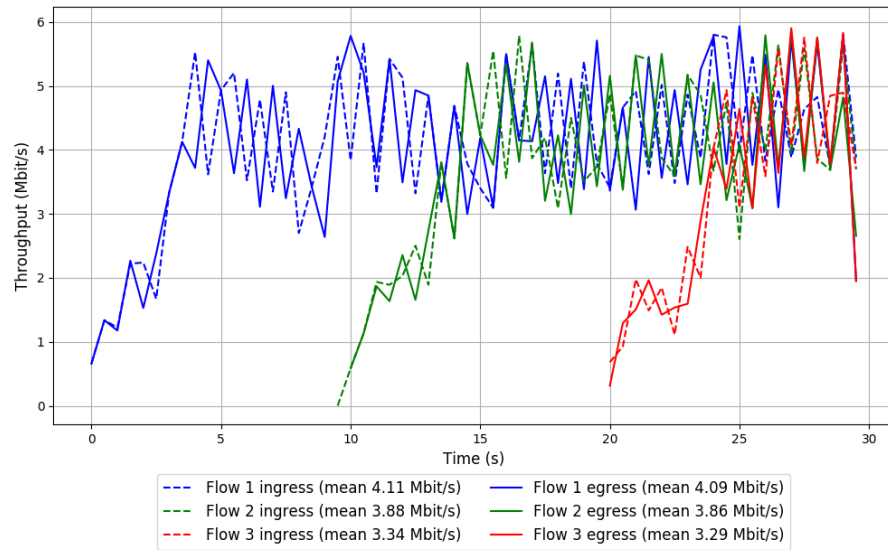


Run 10: Statistics of Sprout

Start at: 2017-11-16 10:27:29
End at: 2017-11-16 10:27:59
Local clock offset: 1.59 ms
Remote clock offset: -20.123 ms

Below is generated by plot.py at 2017-11-16 13:55:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 68.835 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 68.470 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 68.500 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 70.065 ms
Loss rate: 2.94%

Run 10: Report of Sprout — Data Link

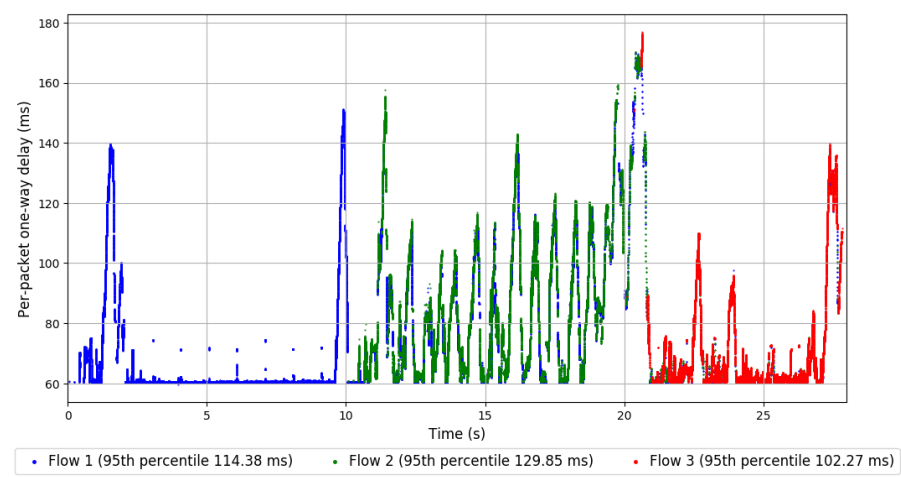
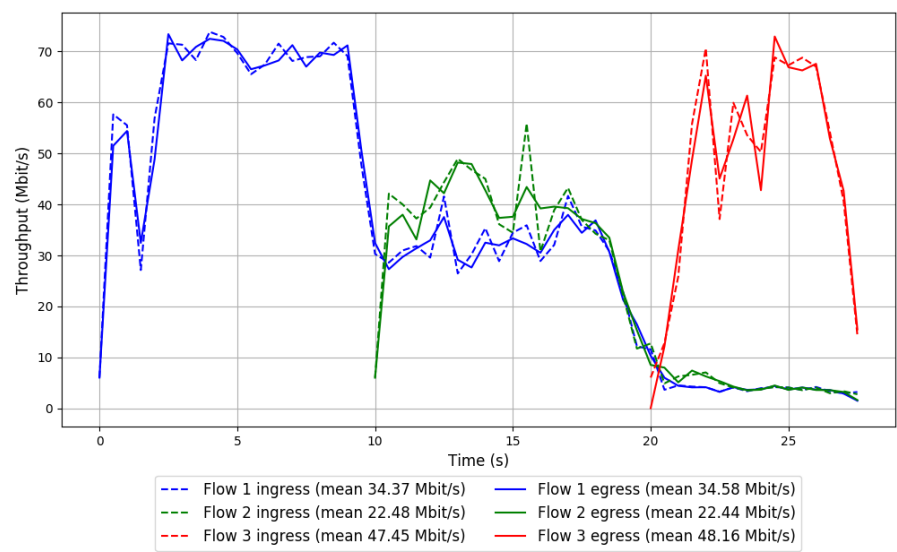


Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 07:21:11
End at: 2017-11-16 07:21:41
Local clock offset: -0.269 ms
Remote clock offset: -19.72 ms

Below is generated by plot.py at 2017-11-16 13:56:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.15 Mbit/s
95th percentile per-packet one-way delay: 117.926 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 114.376 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 129.847 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 48.16 Mbit/s
95th percentile per-packet one-way delay: 102.266 ms
Loss rate: 1.20%

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

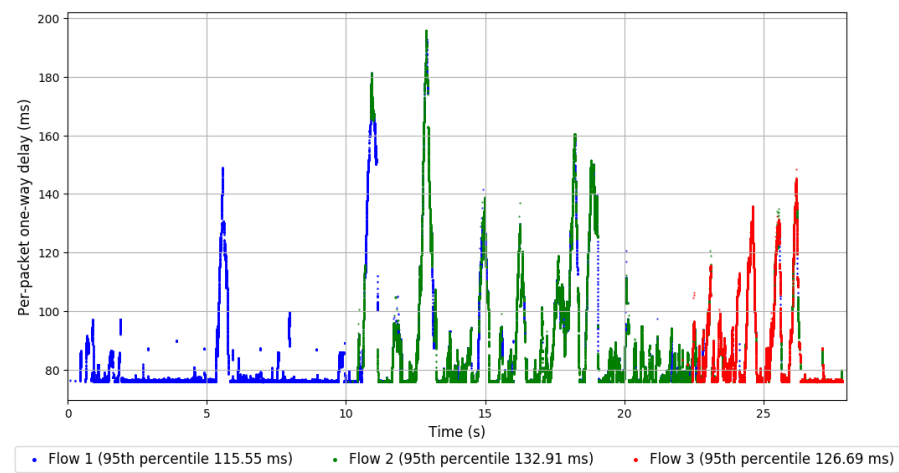
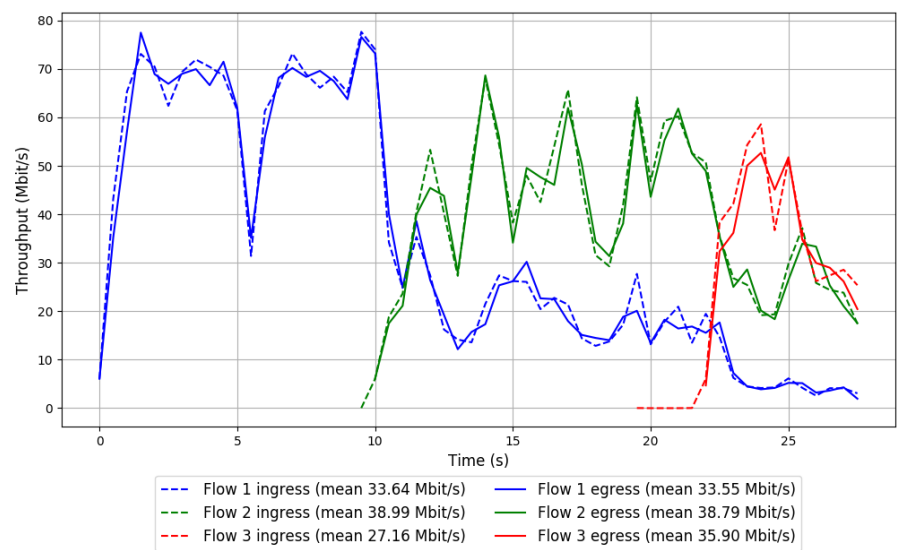


Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 07:40:50
End at: 2017-11-16 07:41:20
Local clock offset: 0.022 ms
Remote clock offset: -34.246 ms

Below is generated by plot.py at 2017-11-16 13:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.81 Mbit/s
95th percentile per-packet one-way delay: 126.488 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 33.55 Mbit/s
95th percentile per-packet one-way delay: 115.551 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 132.909 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 35.90 Mbit/s
95th percentile per-packet one-way delay: 126.685 ms
Loss rate: 4.23%

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

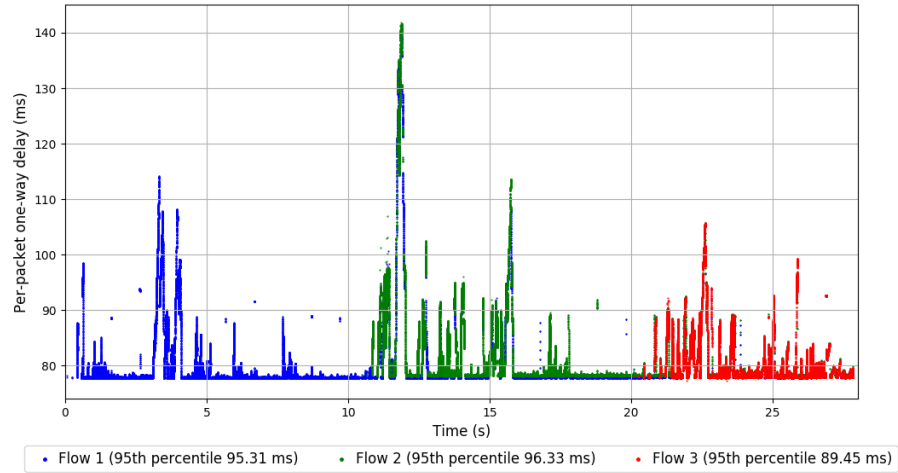
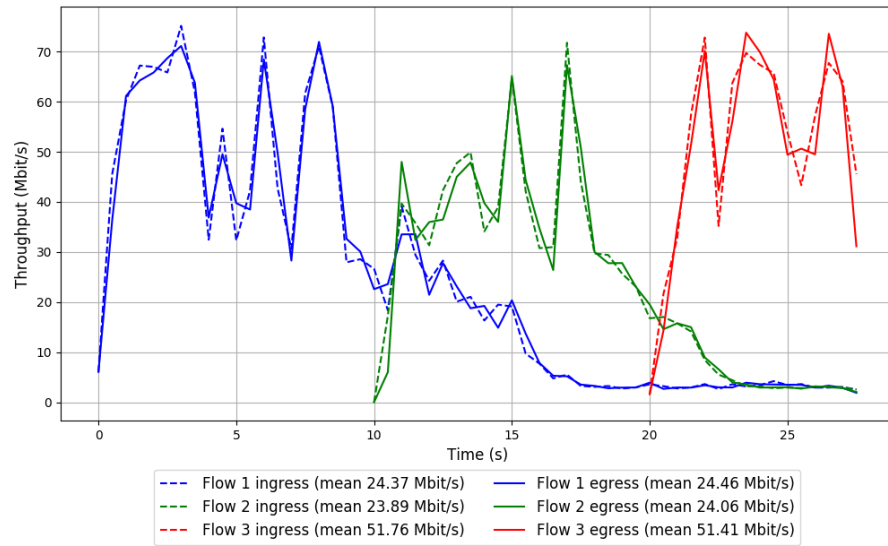


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 08:00:39
End at: 2017-11-16 08:01:09
Local clock offset: 0.304 ms
Remote clock offset: -34.836 ms

Below is generated by plot.py at 2017-11-16 13:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.84 Mbit/s
95th percentile per-packet one-way delay: 94.404 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 95.314 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 24.06 Mbit/s
95th percentile per-packet one-way delay: 96.333 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 51.41 Mbit/s
95th percentile per-packet one-way delay: 89.450 ms
Loss rate: 2.86%

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

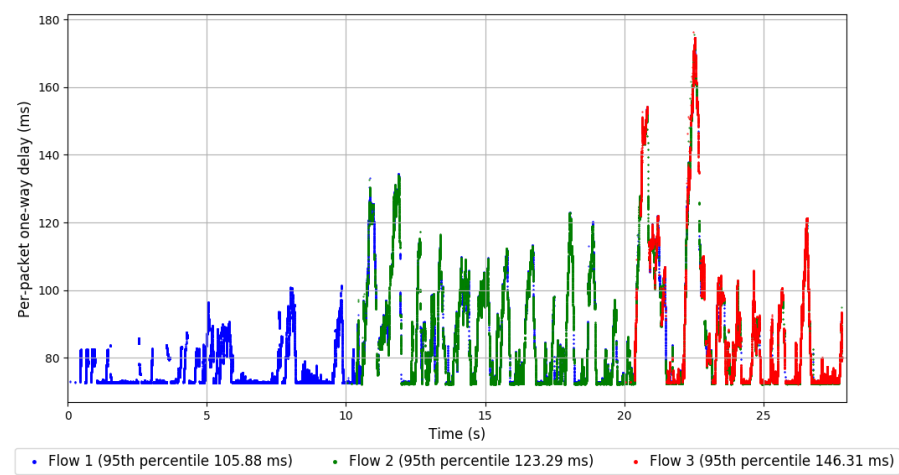
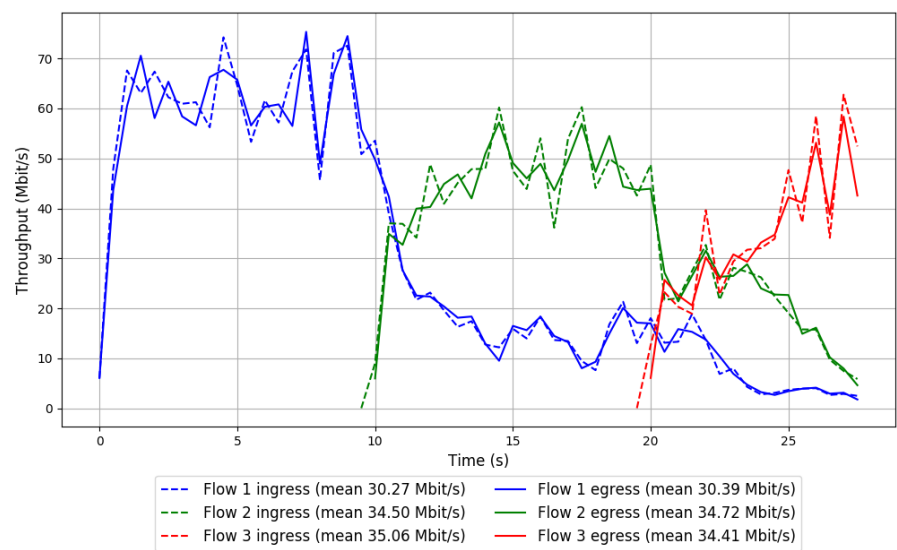


Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 08:20:21
End at: 2017-11-16 08:20:51
Local clock offset: 0.533 ms
Remote clock offset: -28.706 ms

Below is generated by plot.py at 2017-11-16 13:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.28 Mbit/s
95th percentile per-packet one-way delay: 119.655 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 30.39 Mbit/s
95th percentile per-packet one-way delay: 105.875 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 34.72 Mbit/s
95th percentile per-packet one-way delay: 123.294 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 34.41 Mbit/s
95th percentile per-packet one-way delay: 146.308 ms
Loss rate: 3.96%

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

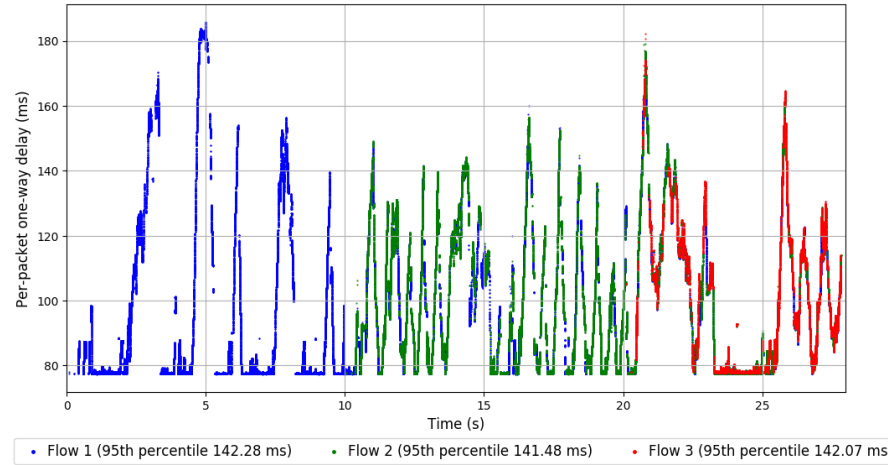
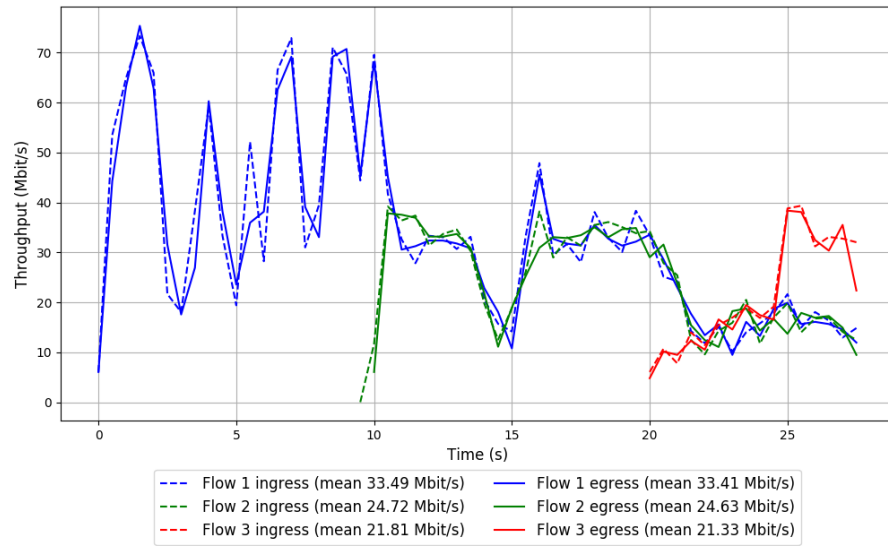


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 08:40:50
End at: 2017-11-16 08:41:20
Local clock offset: 0.542 ms
Remote clock offset: -33.16 ms

Below is generated by plot.py at 2017-11-16 13:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.11 Mbit/s
95th percentile per-packet one-way delay: 141.923 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 33.41 Mbit/s
95th percentile per-packet one-way delay: 142.282 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 141.483 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 142.066 ms
Loss rate: 4.49%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 09:01:14

End at: 2017-11-16 09:01:44

Local clock offset: 0.75 ms

Remote clock offset: 4.102 ms

Below is generated by plot.py at 2017-11-16 13:56:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.00 Mbit/s

95th percentile per-packet one-way delay: 98.550 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 80.221 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 100.759 ms

Loss rate: 1.26%

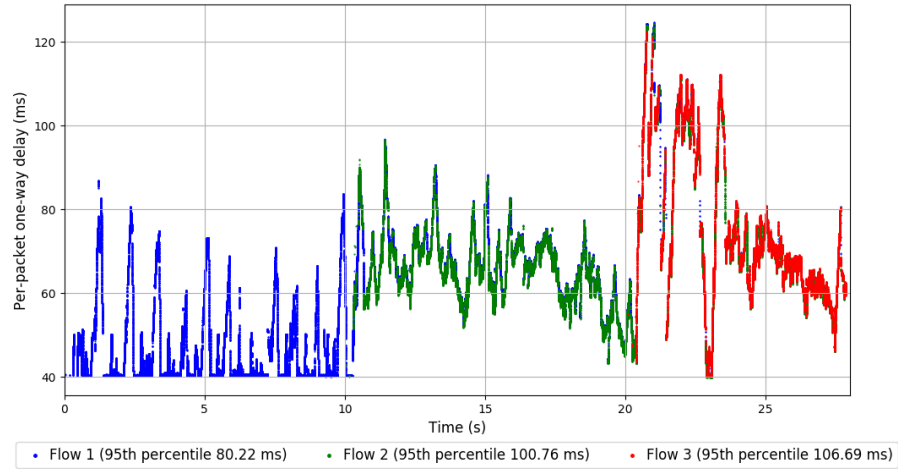
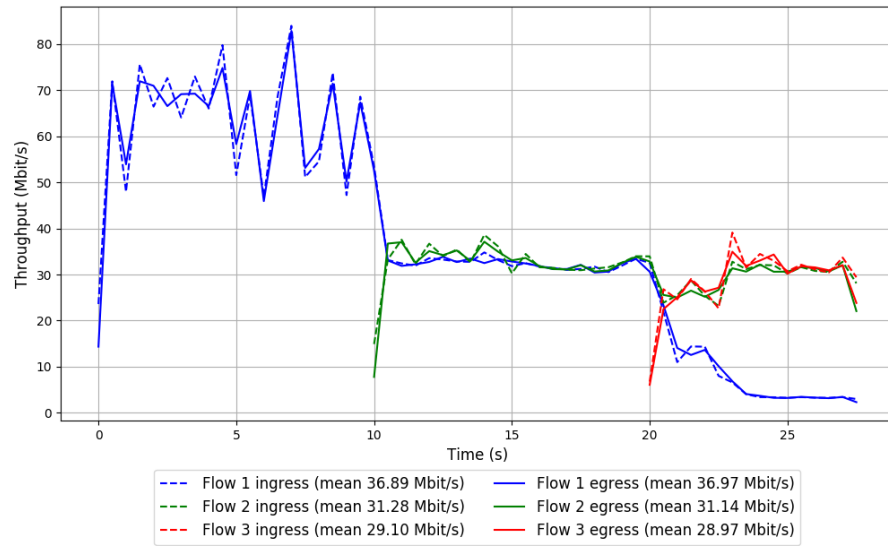
-- Flow 3:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 106.694 ms

Loss rate: 2.49%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 09:20:43

End at: 2017-11-16 09:21:13

Local clock offset: 1.217 ms

Remote clock offset: 3.455 ms

Below is generated by plot.py at 2017-11-16 13:56:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 107.226 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 102.102 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 25.96 Mbit/s

95th percentile per-packet one-way delay: 111.780 ms

Loss rate: 0.57%

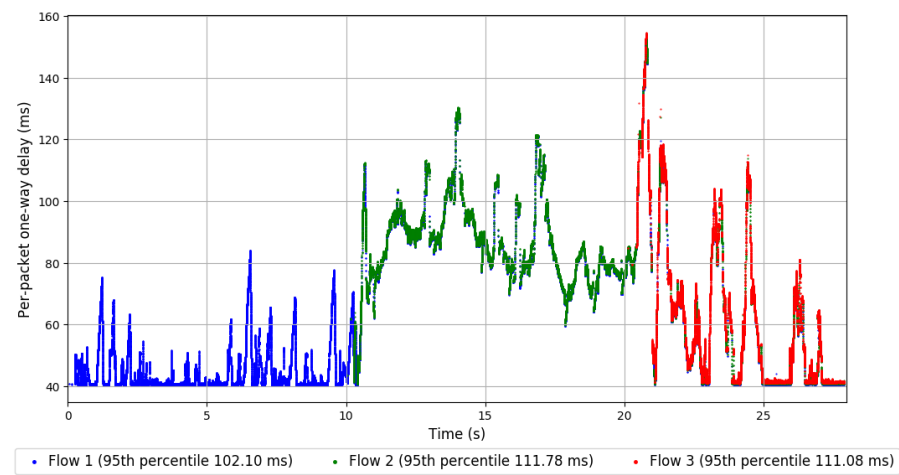
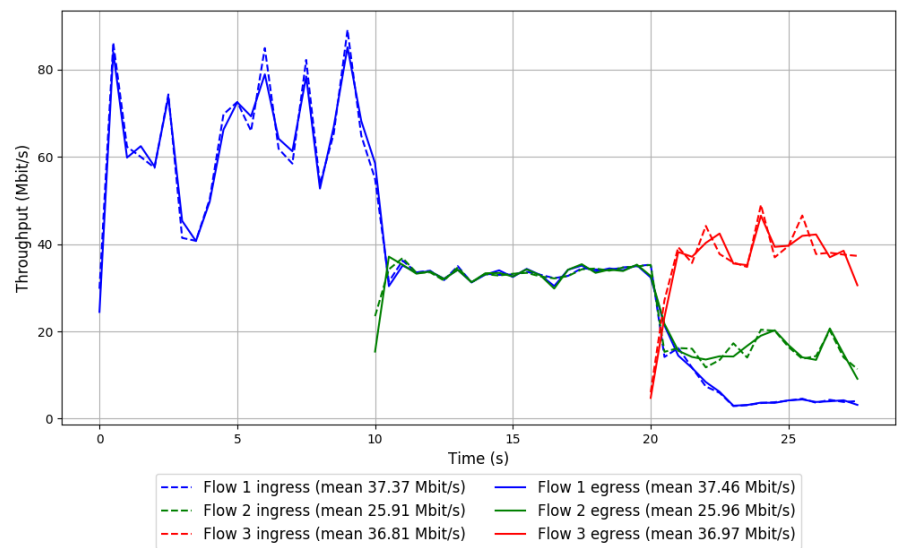
-- Flow 3:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 111.080 ms

Loss rate: 1.87%

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

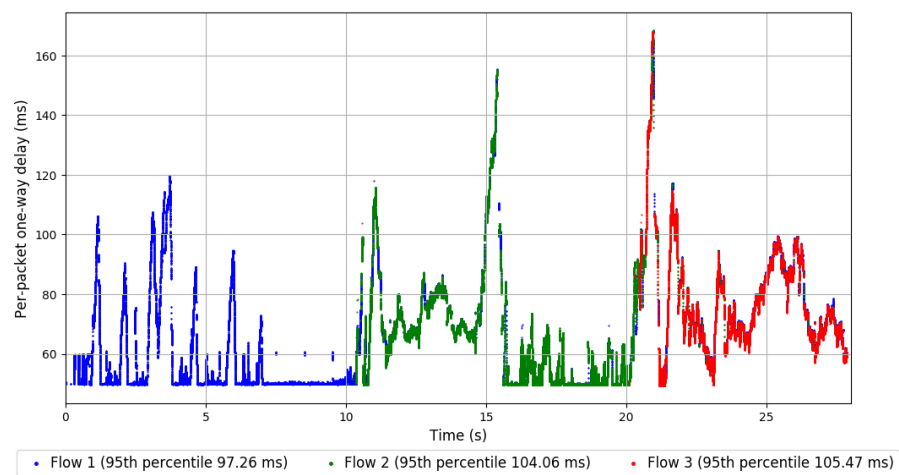
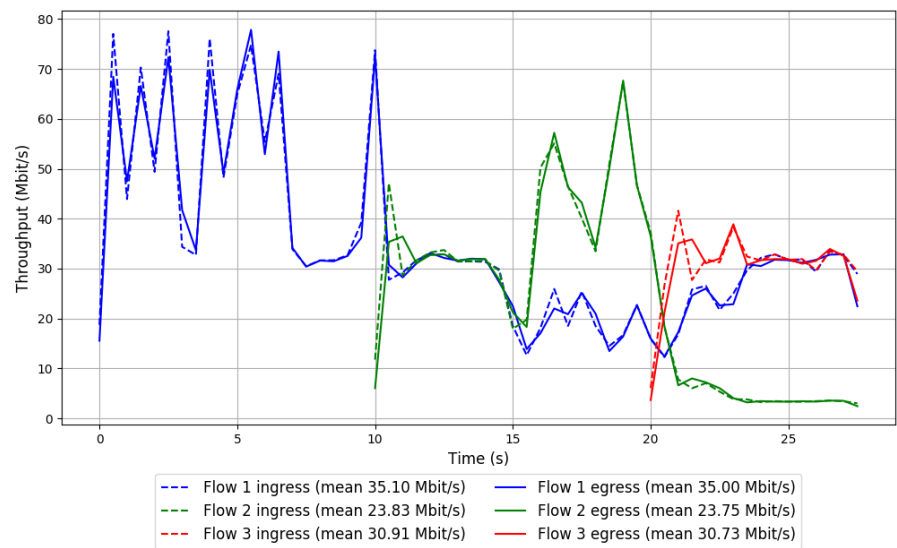


Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 09:39:59
End at: 2017-11-16 09:40:29
Local clock offset: 1.247 ms
Remote clock offset: -6.625 ms

Below is generated by plot.py at 2017-11-16 13:56:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 100.498 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 97.264 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 104.058 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 30.73 Mbit/s
95th percentile per-packet one-way delay: 105.474 ms
Loss rate: 2.58%

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

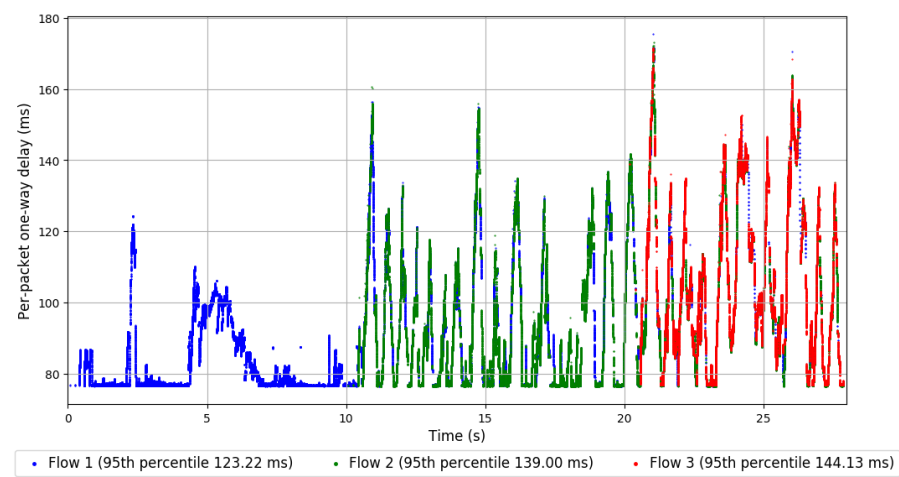
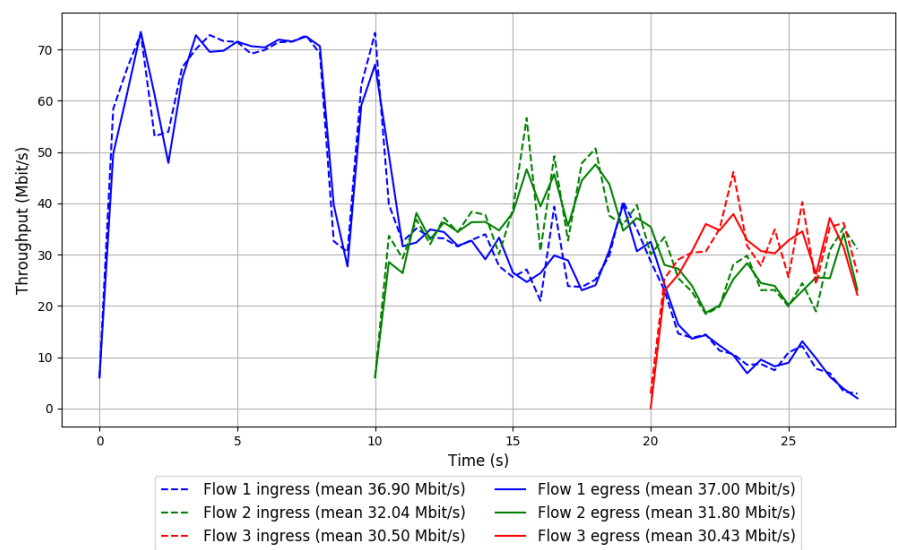


Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 09:59:31
End at: 2017-11-16 10:00:01
Local clock offset: 1.372 ms
Remote clock offset: -35.254 ms

Below is generated by plot.py at 2017-11-16 13:58:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.74 Mbit/s
95th percentile per-packet one-way delay: 135.679 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 123.220 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 139.004 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 30.43 Mbit/s
95th percentile per-packet one-way delay: 144.126 ms
Loss rate: 3.24%

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

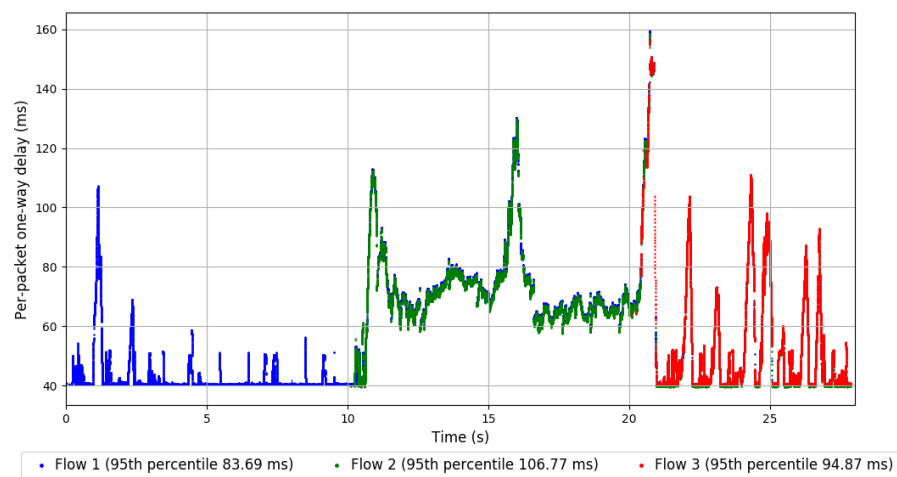
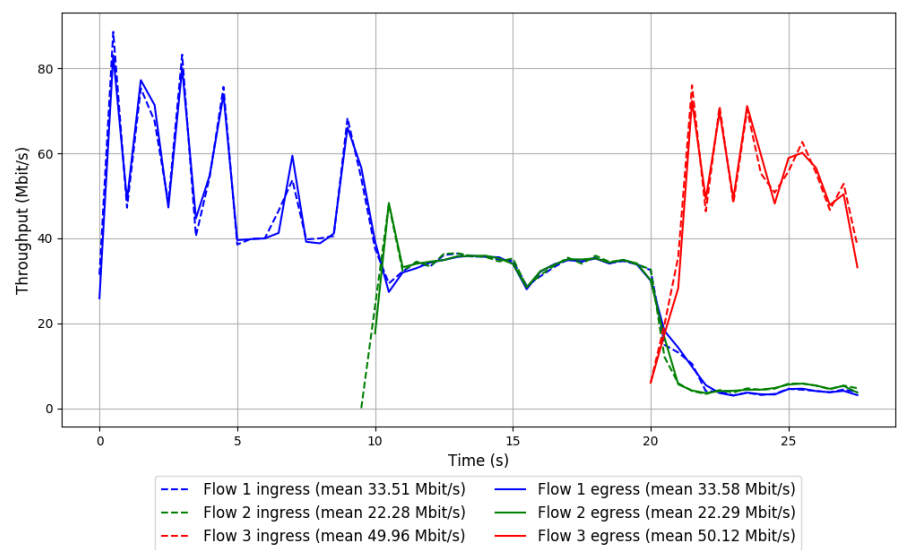


Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 10:19:16
End at: 2017-11-16 10:19:46
Local clock offset: 1.497 ms
Remote clock offset: -0.527 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.85 Mbit/s
95th percentile per-packet one-way delay: 93.093 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 83.693 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 22.29 Mbit/s
95th percentile per-packet one-way delay: 106.772 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 94.874 ms
Loss rate: 1.59%

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

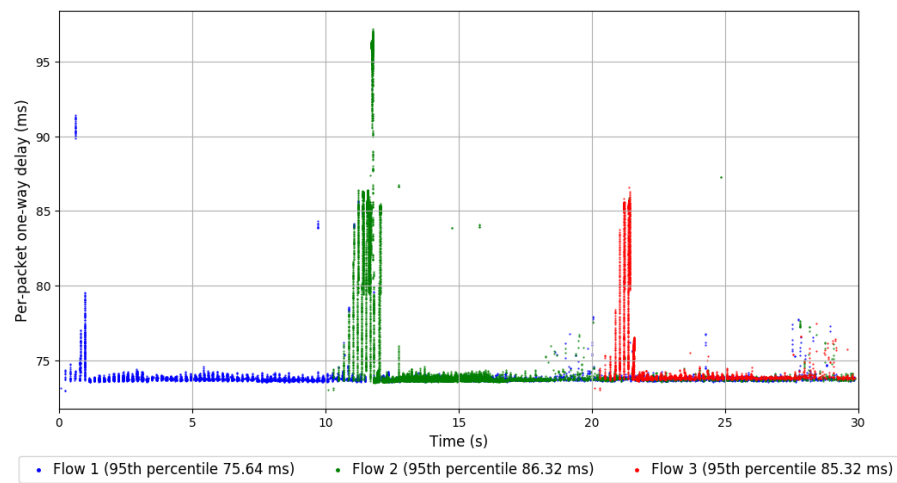
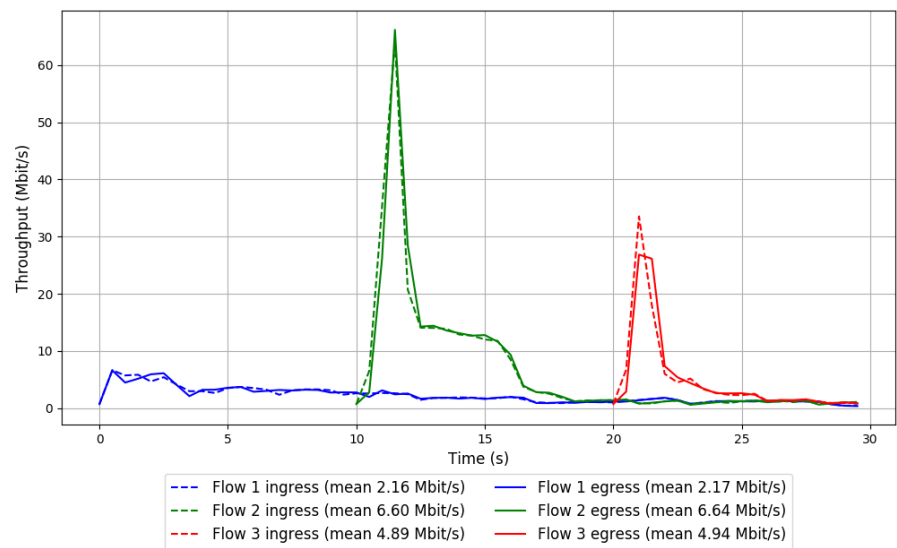


Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 07:35:08
End at: 2017-11-16 07:35:38
Local clock offset: 0.072 ms
Remote clock offset: -32.057 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 85.479 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 75.636 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 86.318 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 85.324 ms
Loss rate: 0.50%

Run 1: Report of TCP Vegas — Data Link

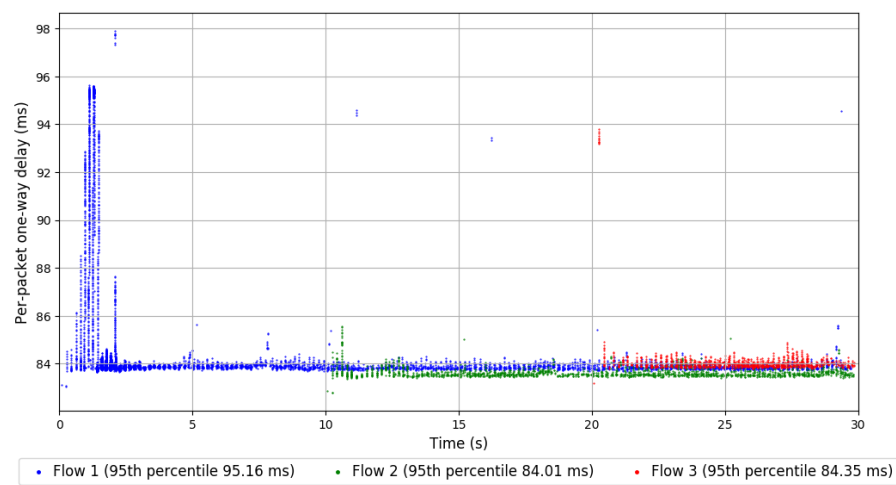
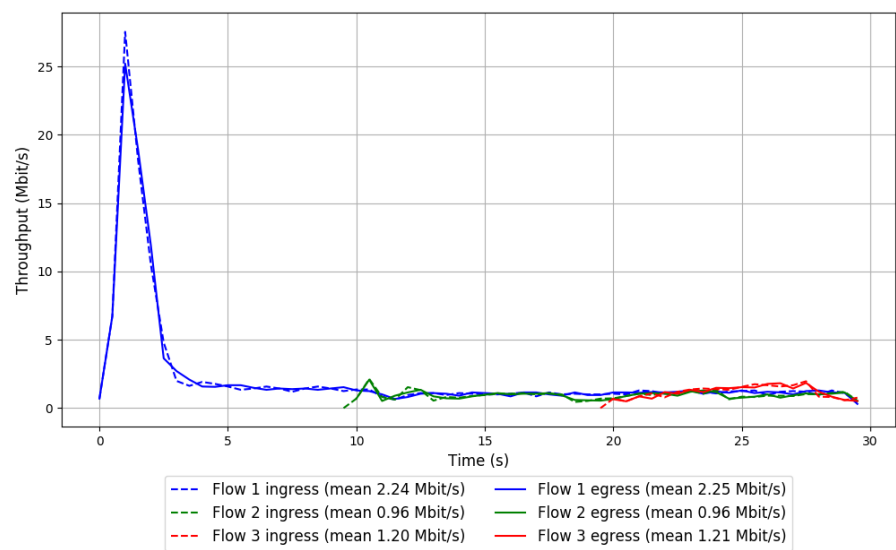


Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 07:55:07
End at: 2017-11-16 07:55:37
Local clock offset: 0.045 ms
Remote clock offset: -41.292 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 93.507 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 95.162 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 84.008 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 84.349 ms
Loss rate: 1.61%

Run 2: Report of TCP Vegas — Data Link

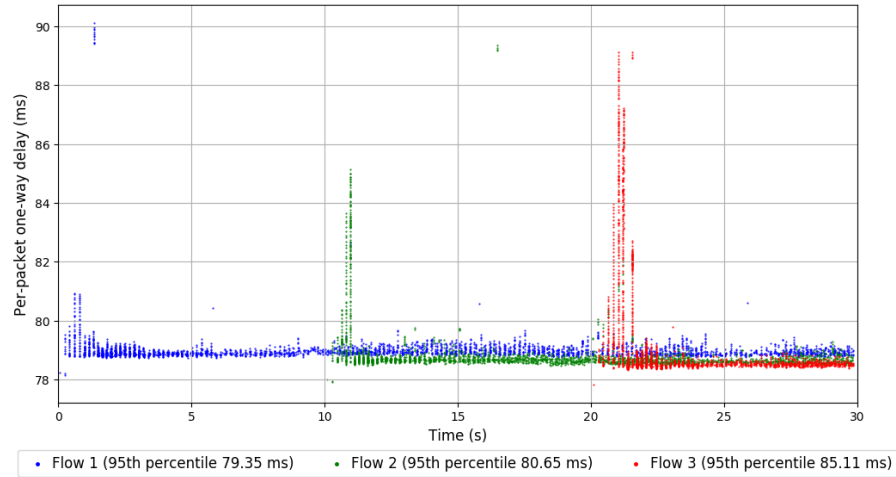
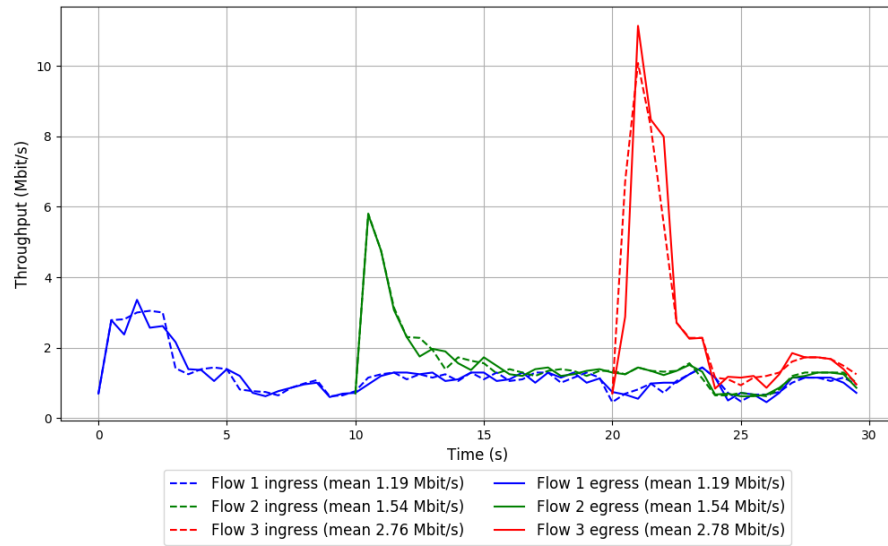


Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 08:14:58
End at: 2017-11-16 08:15:28
Local clock offset: 0.412 ms
Remote clock offset: -35.035 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 82.071 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 79.352 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 80.653 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 85.105 ms
Loss rate: 1.14%

Run 3: Report of TCP Vegas — Data Link

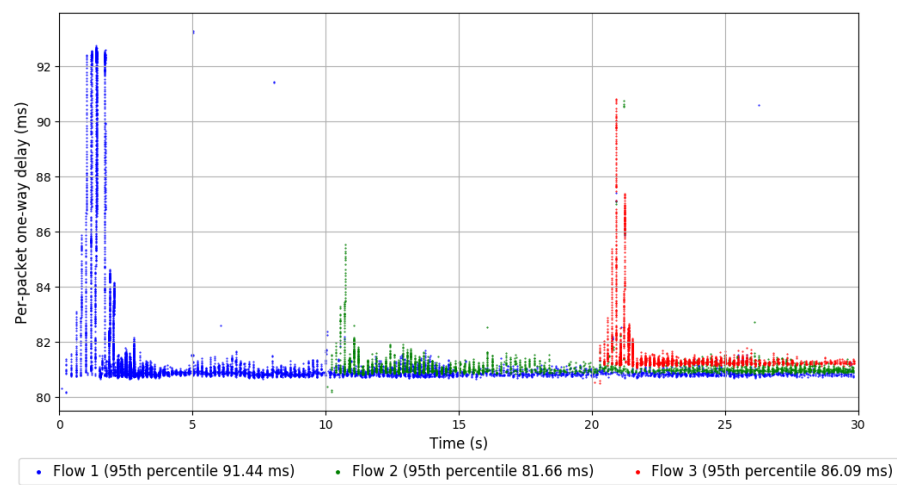
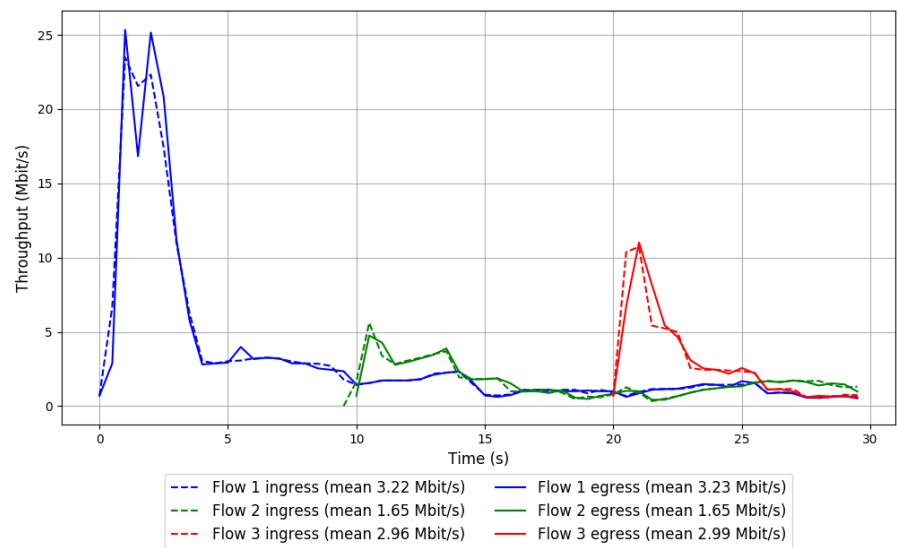


Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 08:35:09
End at: 2017-11-16 08:35:39
Local clock offset: 0.292 ms
Remote clock offset: -36.795 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 89.065 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 91.436 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 81.660 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 86.092 ms
Loss rate: 0.74%

Run 4: Report of TCP Vegas — Data Link

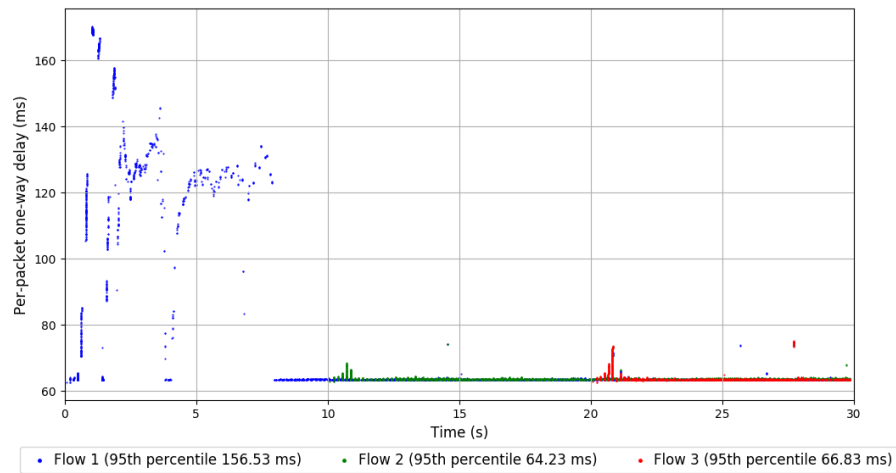
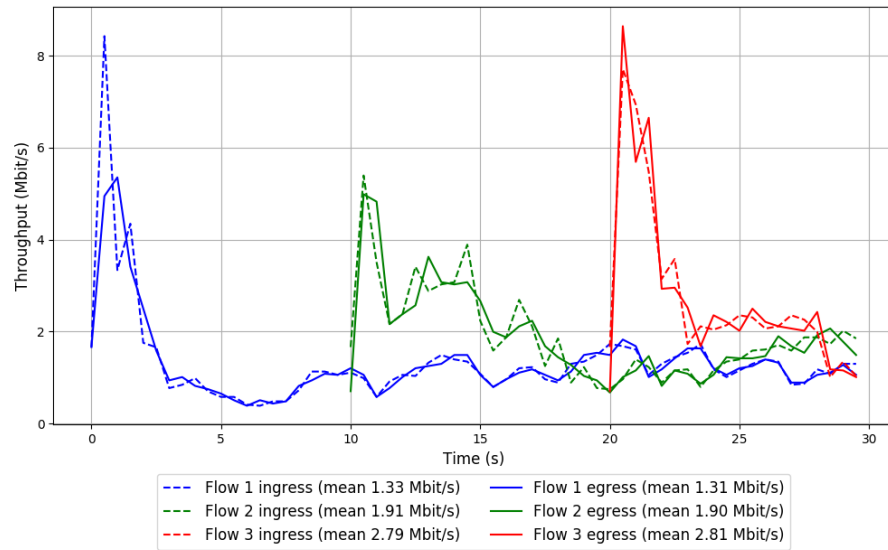


Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 08:55:29
End at: 2017-11-16 08:55:59
Local clock offset: 0.632 ms
Remote clock offset: -19.082 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 125.550 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 156.534 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 64.232 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 66.835 ms
Loss rate: 0.61%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 09:15:23

End at: 2017-11-16 09:15:53

Local clock offset: 0.878 ms

Remote clock offset: 4.491 ms

Below is generated by plot.py at 2017-11-16 13:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 43.298 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 40.896 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 47.995 ms

Loss rate: 0.48%

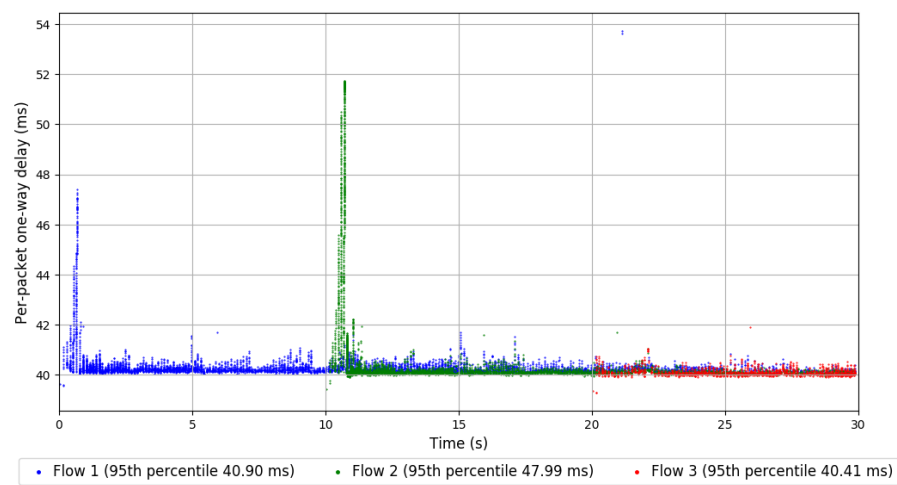
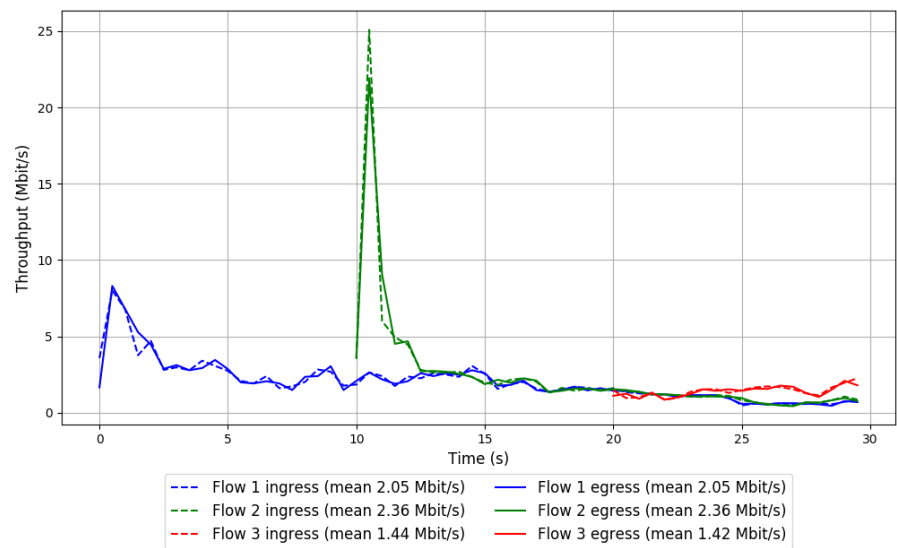
-- Flow 3:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 40.415 ms

Loss rate: 2.51%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 09:34:21

End at: 2017-11-16 09:34:51

Local clock offset: 1.21 ms

Remote clock offset: 2.991 ms

Below is generated by plot.py at 2017-11-16 13:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 51.896 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 51.970 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 41.551 ms

Loss rate: 0.38%

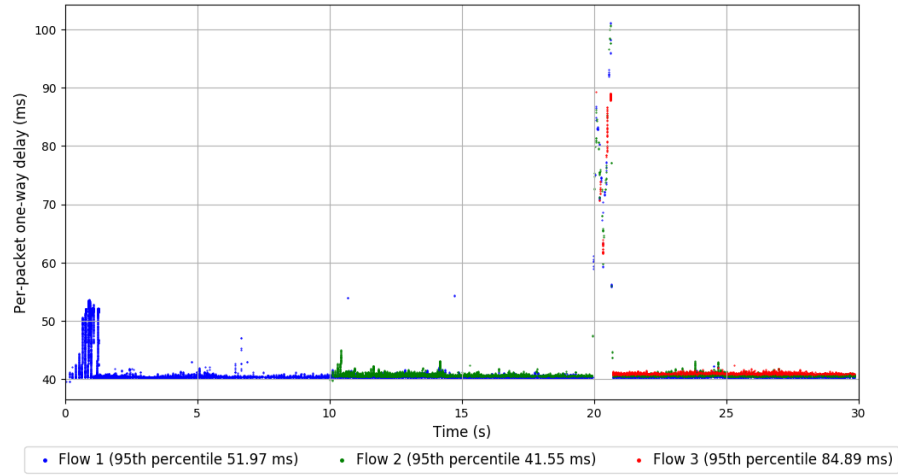
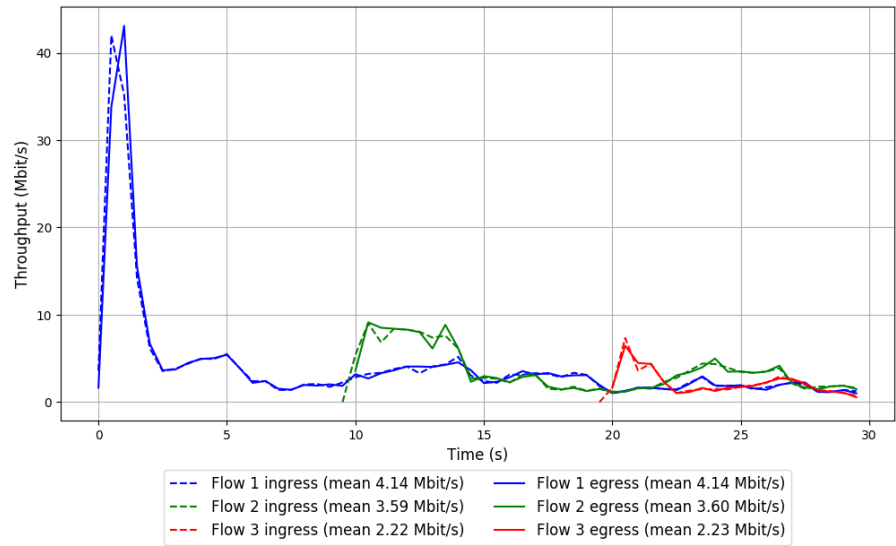
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 84.885 ms

Loss rate: 0.93%

Run 7: Report of TCP Vegas — Data Link

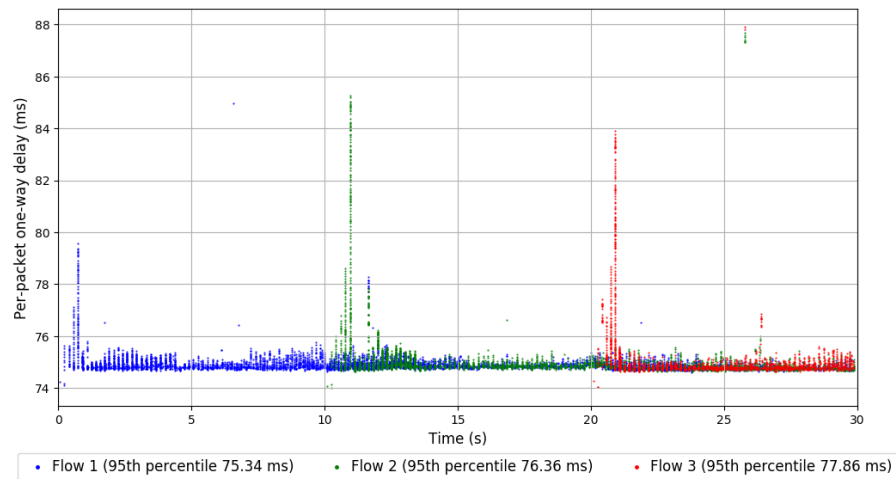
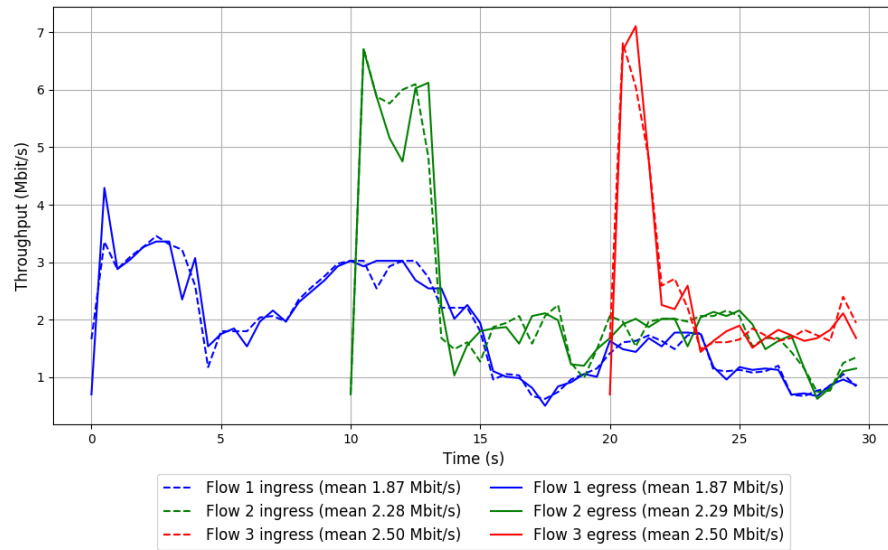


Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 09:53:56
End at: 2017-11-16 09:54:26
Local clock offset: 1.263 ms
Remote clock offset: -32.433 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 75.894 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 75.343 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 76.361 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 77.857 ms
Loss rate: 1.74%

Run 8: Report of TCP Vegas — Data Link

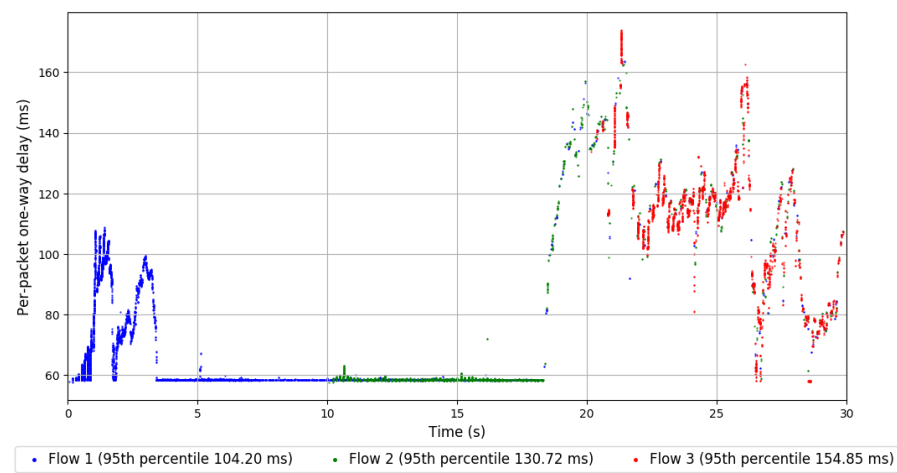
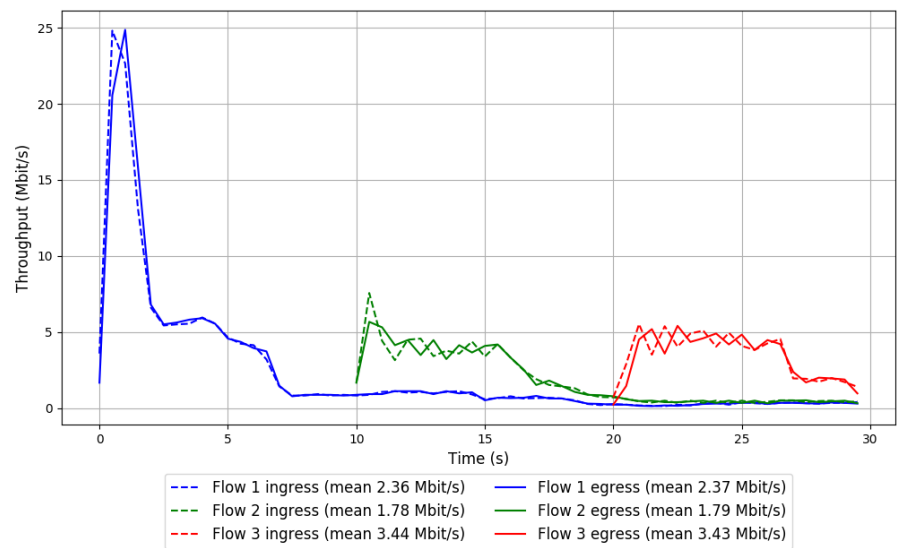


Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 10:13:39
End at: 2017-11-16 10:14:09
Local clock offset: 1.503 ms
Remote clock offset: -17.69 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 133.531 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 104.200 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 130.725 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 154.847 ms
Loss rate: 2.71%

Run 9: Report of TCP Vegas — Data Link

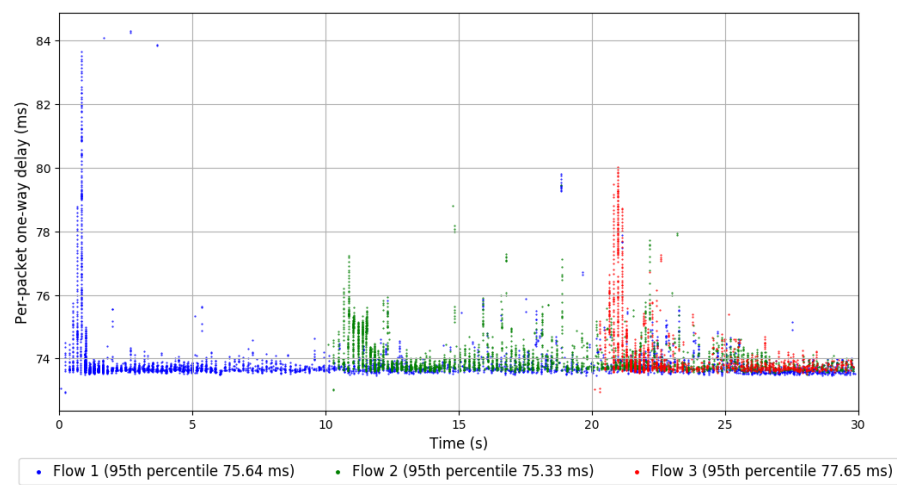
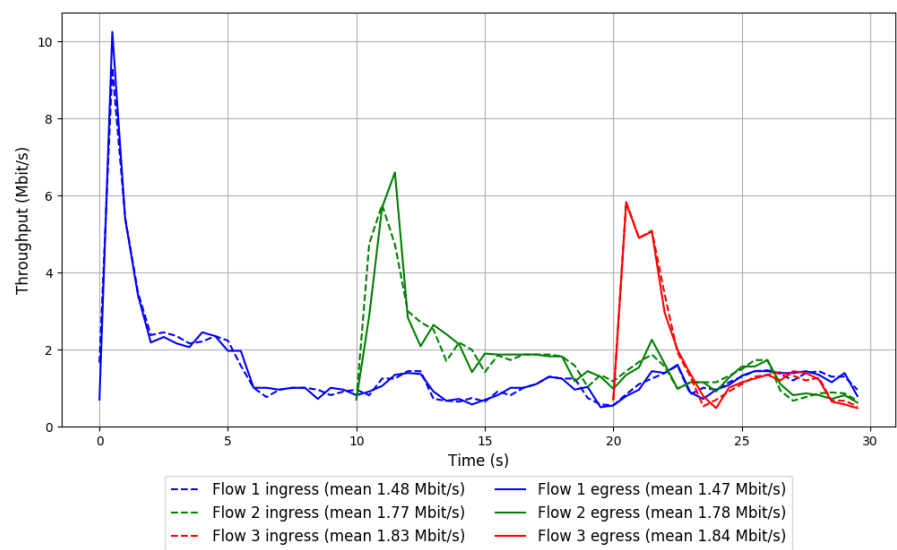


Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 10:32:38
End at: 2017-11-16 10:33:08
Local clock offset: 1.775 ms
Remote clock offset: -35.702 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 75.766 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 75.638 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 75.335 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 77.650 ms
Loss rate: 1.00%

Run 10: Report of TCP Vegas — Data Link

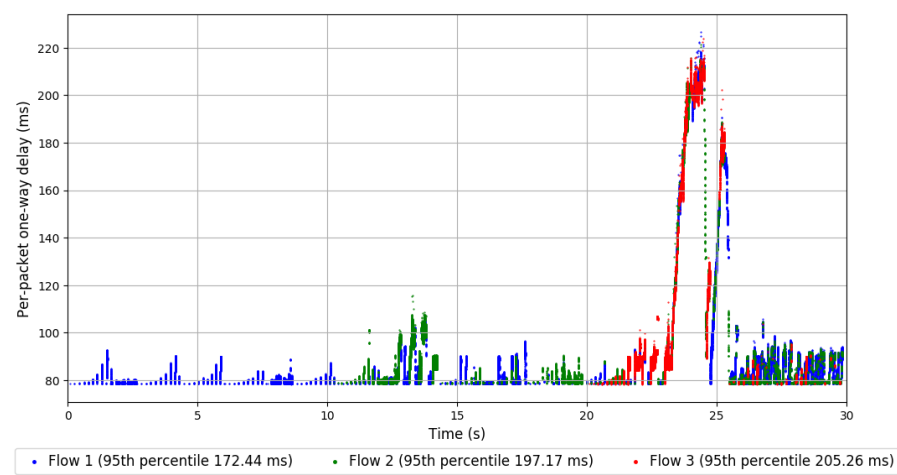
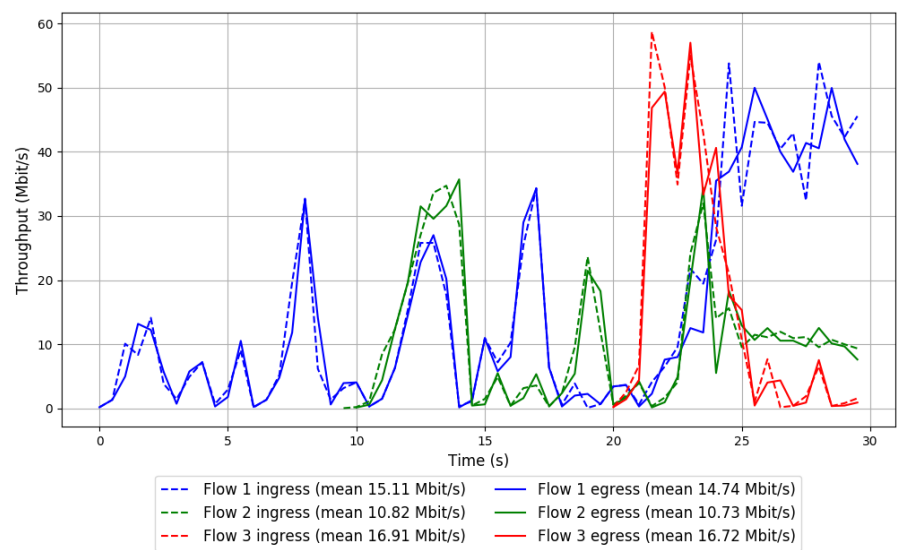


Run 1: Statistics of Verus

Start at: 2017-11-16 07:36:27
End at: 2017-11-16 07:36:57
Local clock offset: -0.027 ms
Remote clock offset: -36.862 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.27 Mbit/s
95th percentile per-packet one-way delay: 200.753 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 172.438 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 10.73 Mbit/s
95th percentile per-packet one-way delay: 197.168 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 205.257 ms
Loss rate: 2.83%

Run 1: Report of Verus — Data Link

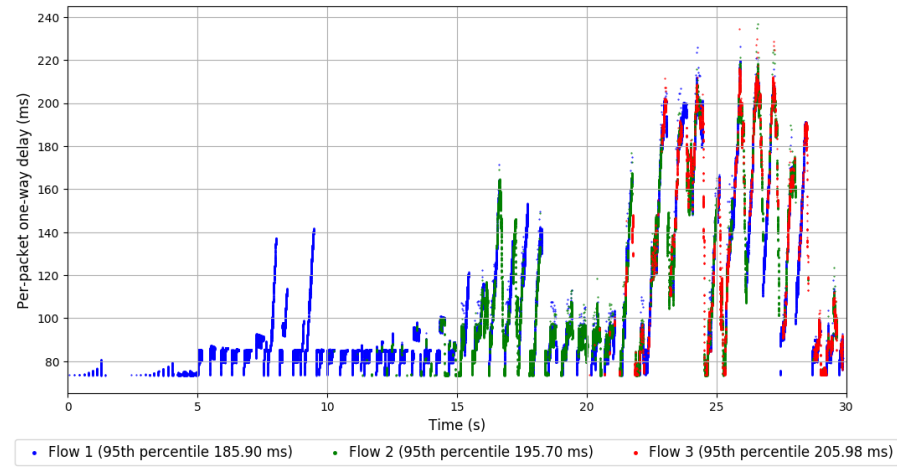
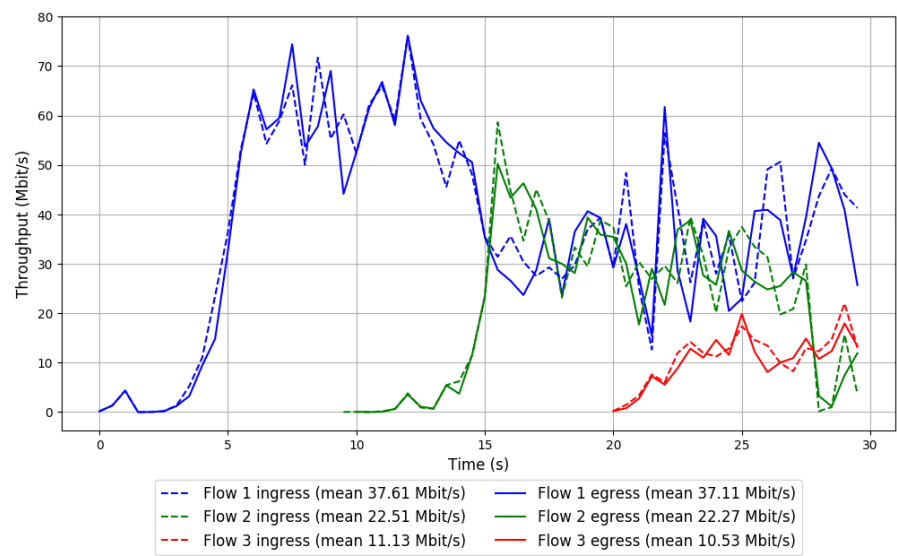


Run 2: Statistics of Verus

Start at: 2017-11-16 07:56:23
End at: 2017-11-16 07:56:53
Local clock offset: 0.048 ms
Remote clock offset: -31.323 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.32 Mbit/s
95th percentile per-packet one-way delay: 191.528 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 185.895 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 22.27 Mbit/s
95th percentile per-packet one-way delay: 195.697 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 205.982 ms
Loss rate: 6.24%

Run 2: Report of Verus — Data Link

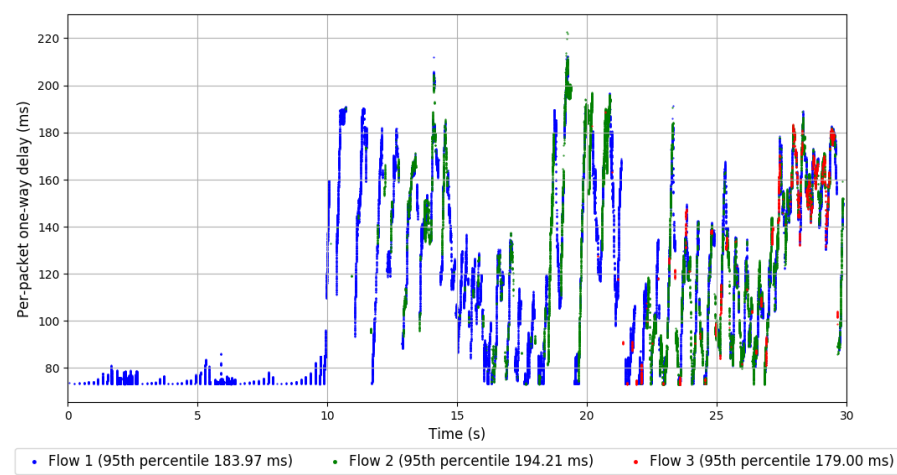
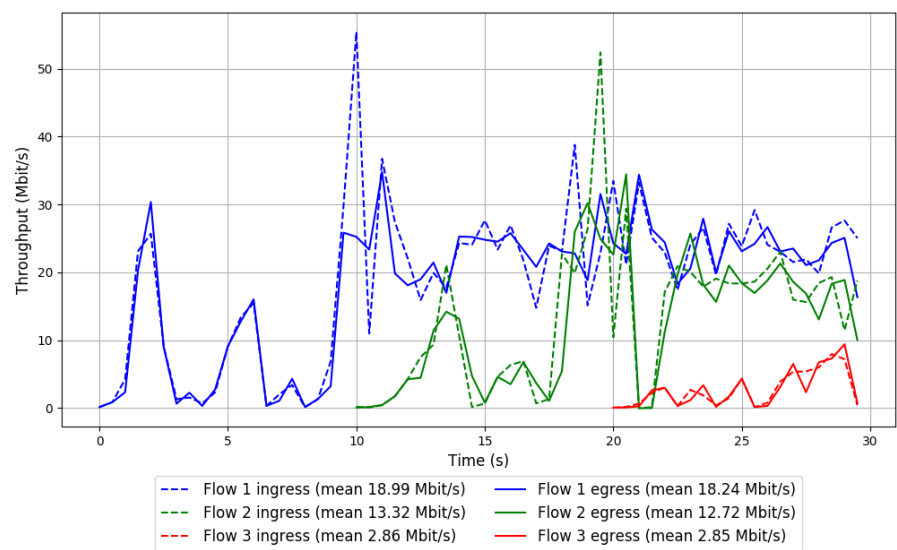


Run 3: Statistics of Verus

Start at: 2017-11-16 08:16:15
End at: 2017-11-16 08:16:45
Local clock offset: 0.391 ms
Remote clock offset: -29.628 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 187.874 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 18.24 Mbit/s
95th percentile per-packet one-way delay: 183.975 ms
Loss rate: 4.49%
-- Flow 2:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 194.209 ms
Loss rate: 5.61%
-- Flow 3:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 179.004 ms
Loss rate: 1.30%

Run 3: Report of Verus — Data Link

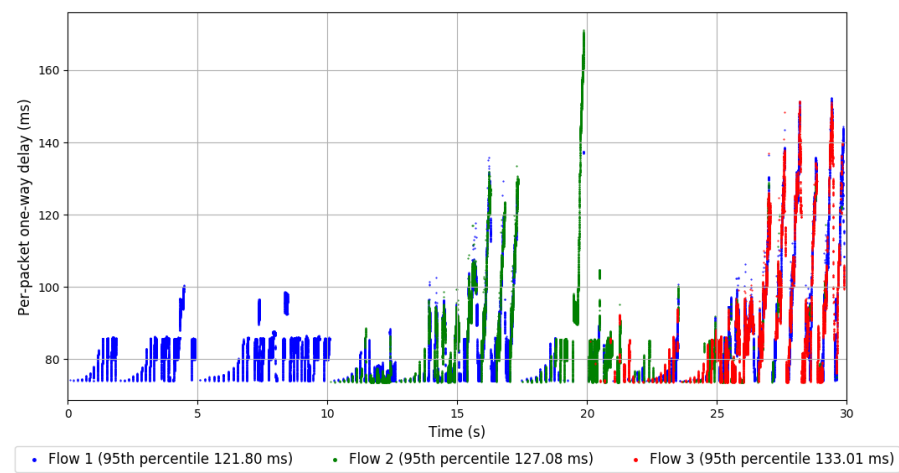
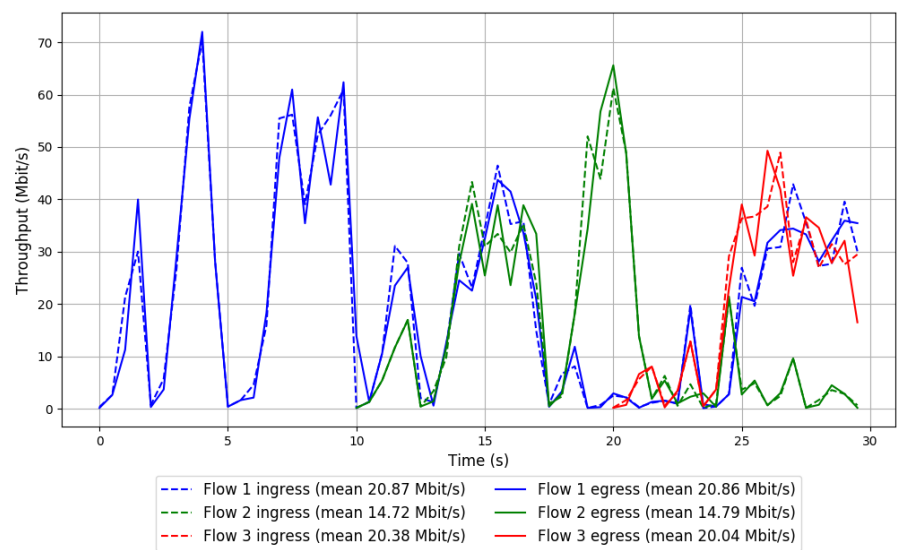


Run 4: Statistics of Verus

Start at: 2017-11-16 08:36:27
End at: 2017-11-16 08:36:57
Local clock offset: 0.308 ms
Remote clock offset: -29.936 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.20 Mbit/s
95th percentile per-packet one-way delay: 125.676 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 121.801 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 127.076 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 20.04 Mbit/s
95th percentile per-packet one-way delay: 133.015 ms
Loss rate: 3.44%

Run 4: Report of Verus — Data Link

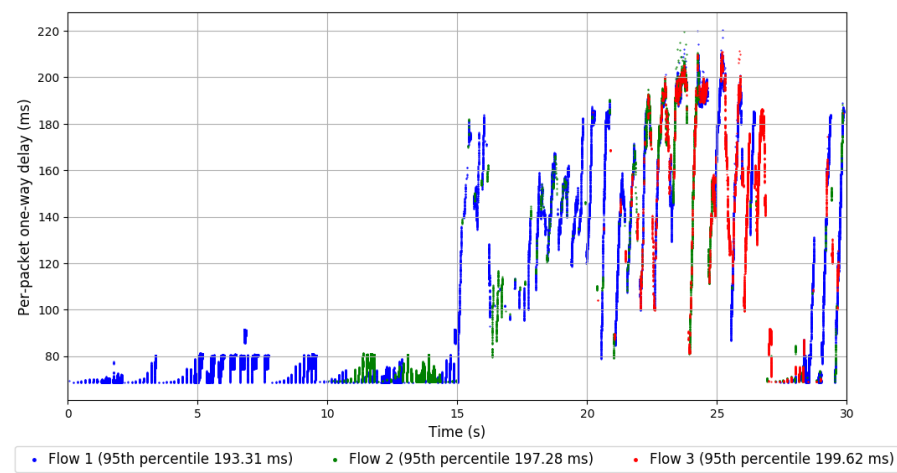
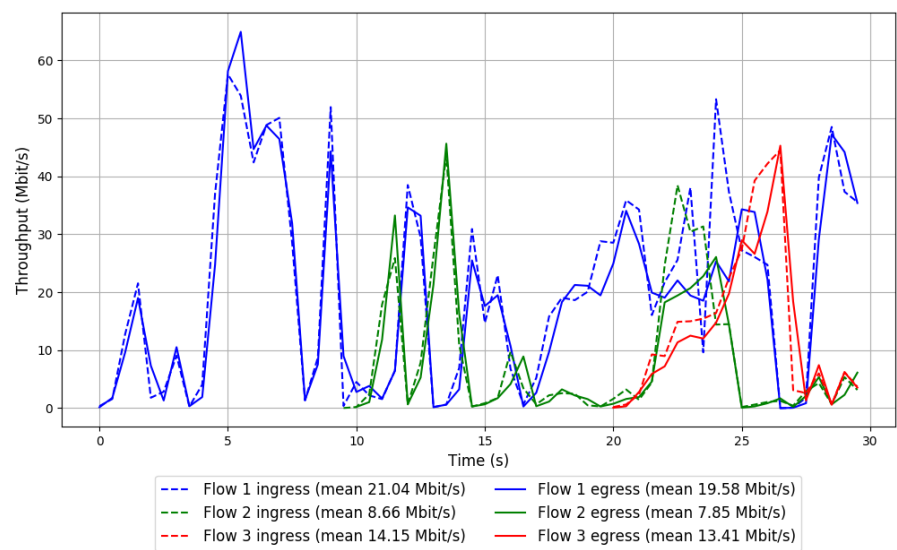


Run 5: Statistics of Verus

Start at: 2017-11-16 08:56:45
End at: 2017-11-16 08:57:15
Local clock offset: 0.784 ms
Remote clock offset: -24.547 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 195.367 ms
Loss rate: 7.48%
-- Flow 1:
Average throughput: 19.58 Mbit/s
95th percentile per-packet one-way delay: 193.307 ms
Loss rate: 6.66%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 197.277 ms
Loss rate: 10.09%
-- Flow 3:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 199.617 ms
Loss rate: 7.91%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-16 09:16:37

End at: 2017-11-16 09:17:07

Local clock offset: 1.146 ms

Remote clock offset: 4.42 ms

Below is generated by plot.py at 2017-11-16 13:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.54 Mbit/s

95th percentile per-packet one-way delay: 134.020 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 129.289 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 136.005 ms

Loss rate: 1.83%

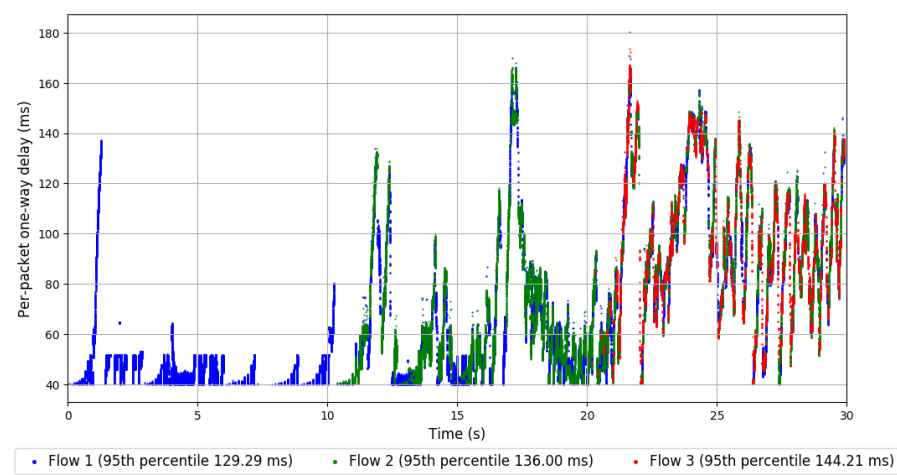
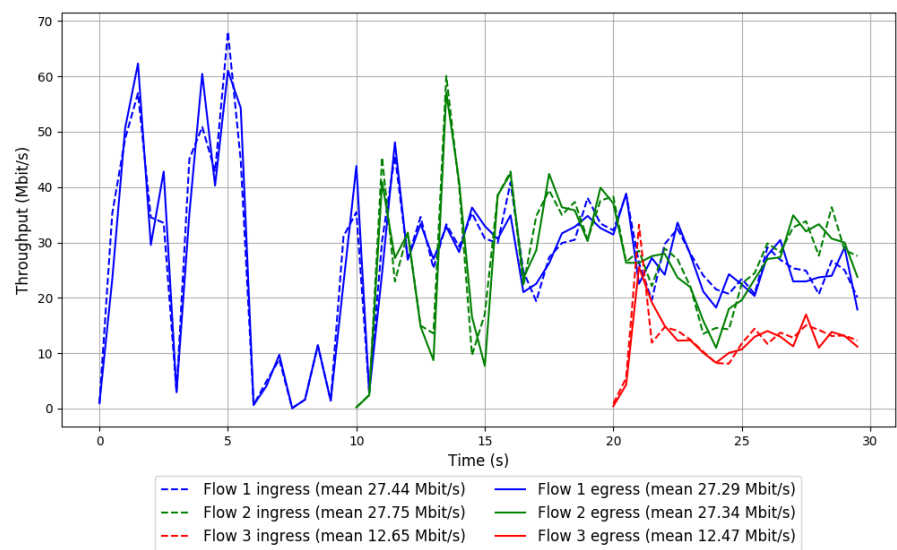
-- Flow 3:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 144.210 ms

Loss rate: 2.44%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 09:35:35

End at: 2017-11-16 09:36:05

Local clock offset: 1.247 ms

Remote clock offset: 3.337 ms

Below is generated by plot.py at 2017-11-16 13:58:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 161.826 ms

Loss rate: 4.49%

-- Flow 1:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 160.753 ms

Loss rate: 4.15%

-- Flow 2:

Average throughput: 29.47 Mbit/s

95th percentile per-packet one-way delay: 161.978 ms

Loss rate: 4.61%

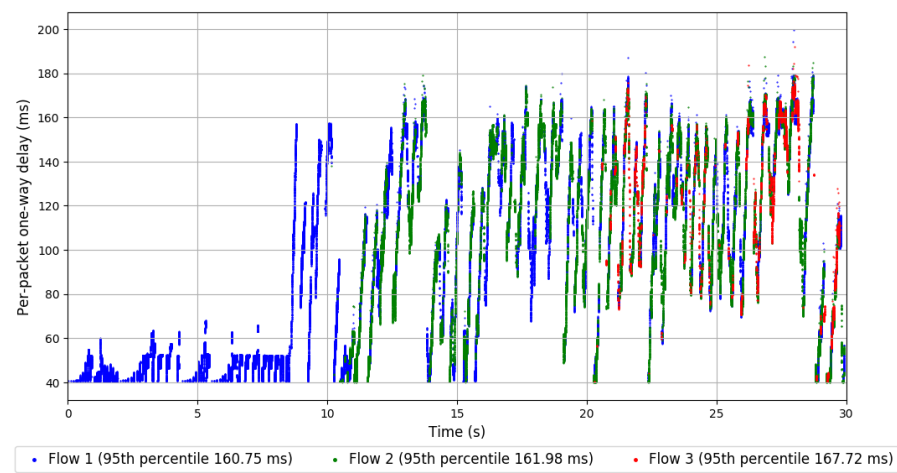
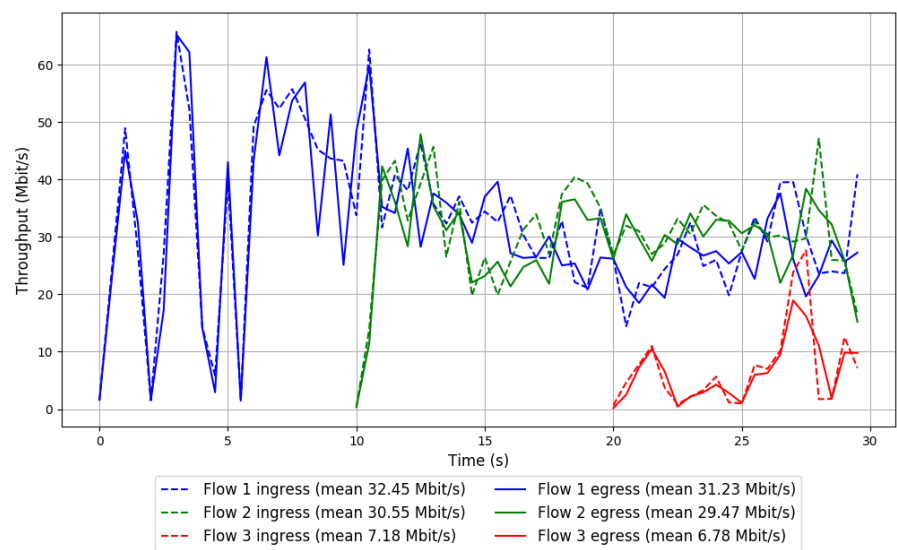
-- Flow 3:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 167.722 ms

Loss rate: 7.99%

Run 7: Report of Verus — Data Link

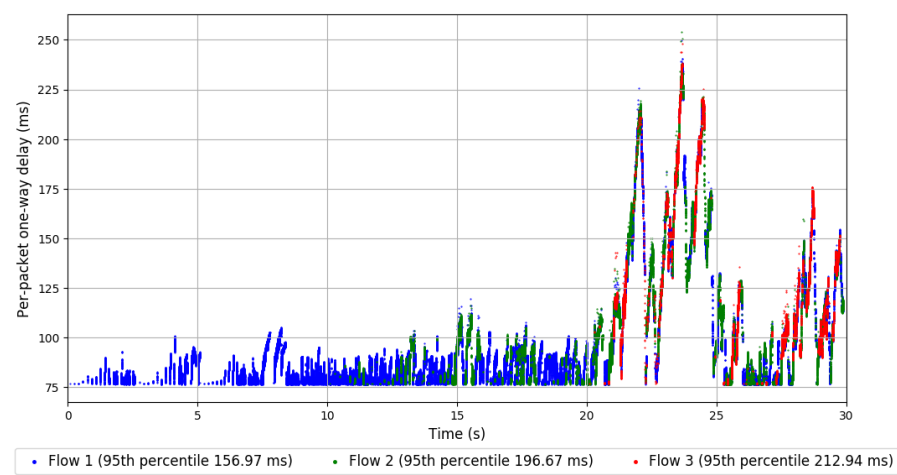
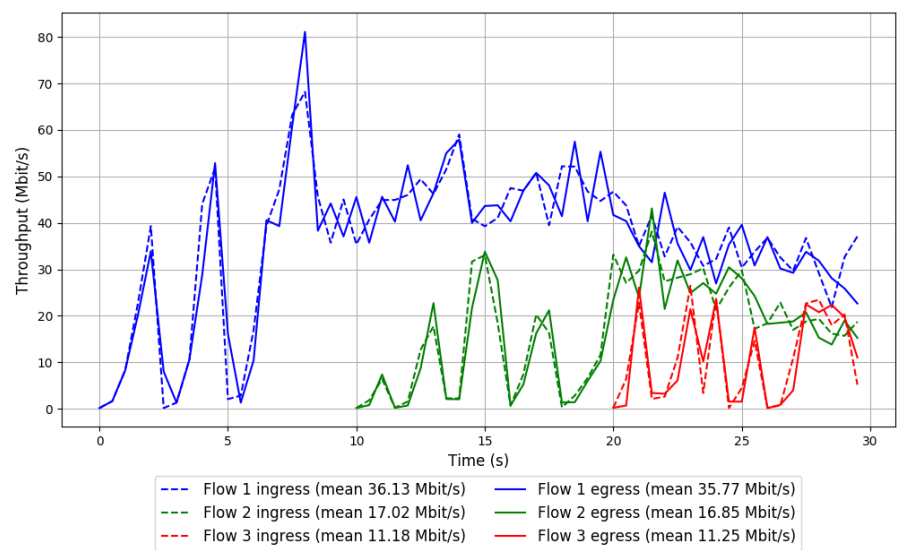


Run 8: Statistics of Verus

Start at: 2017-11-16 09:55:12
End at: 2017-11-16 09:55:42
Local clock offset: 1.506 ms
Remote clock offset: -34.645 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.58 Mbit/s
95th percentile per-packet one-way delay: 179.495 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 35.77 Mbit/s
95th percentile per-packet one-way delay: 156.970 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 16.85 Mbit/s
95th percentile per-packet one-way delay: 196.673 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 212.945 ms
Loss rate: 1.19%

Run 8: Report of Verus — Data Link

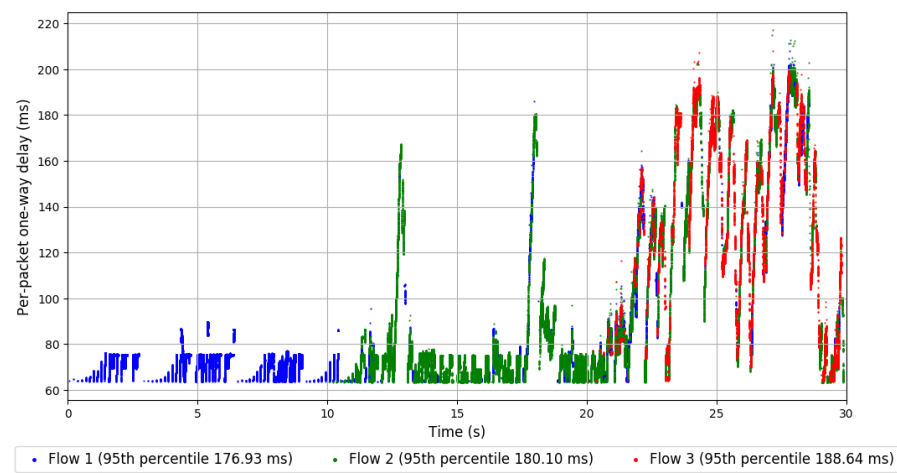
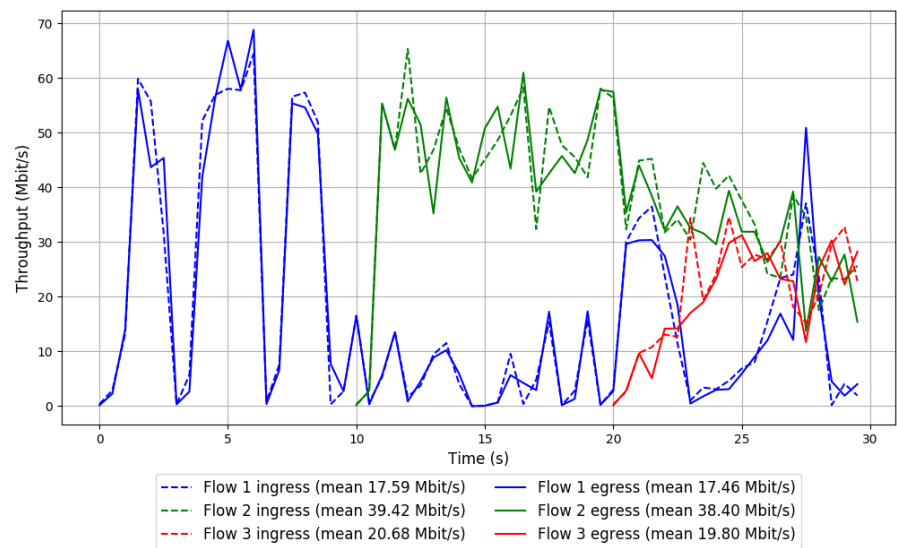


Run 9: Statistics of Verus

Start at: 2017-11-16 10:14:54
End at: 2017-11-16 10:15:24
Local clock offset: 1.406 ms
Remote clock offset: -23.757 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 180.807 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 17.46 Mbit/s
95th percentile per-packet one-way delay: 176.933 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 38.40 Mbit/s
95th percentile per-packet one-way delay: 180.103 ms
Loss rate: 3.20%
-- Flow 3:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 188.639 ms
Loss rate: 6.28%

Run 9: Report of Verus — Data Link

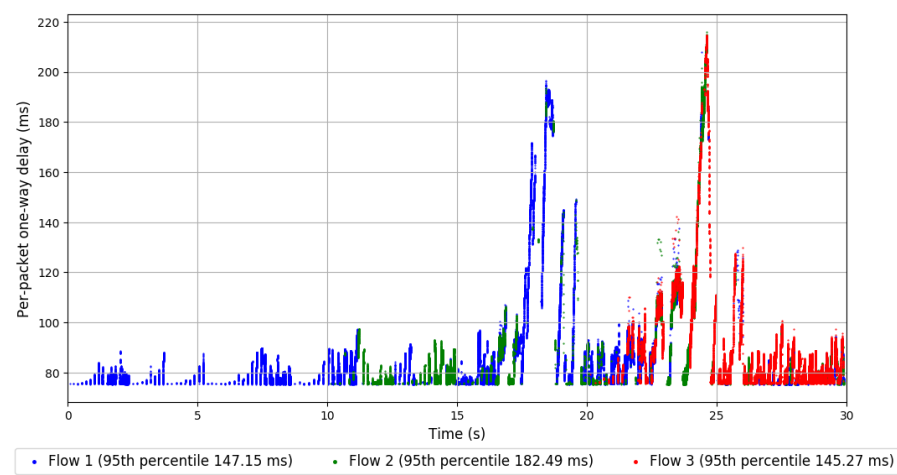
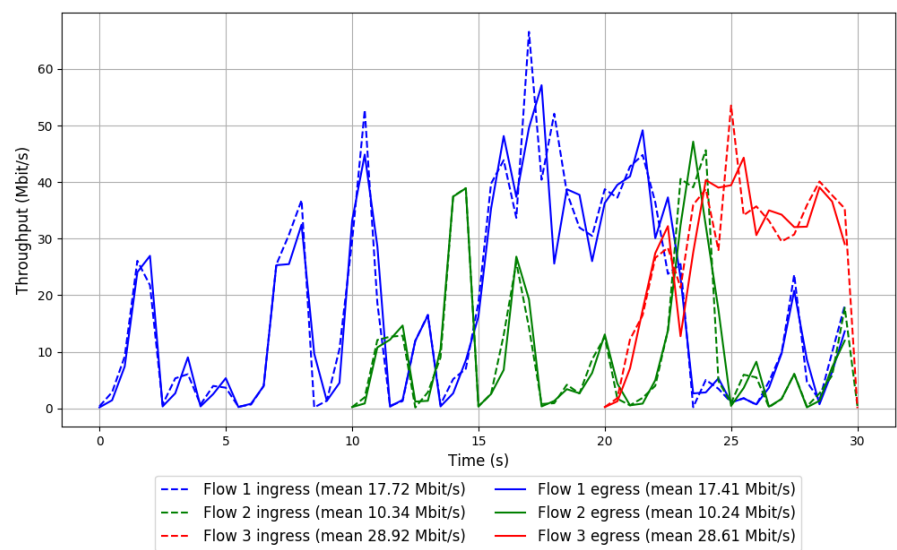


Run 10: Statistics of Verus

Start at: 2017-11-16 10:33:54
End at: 2017-11-16 10:34:24
Local clock offset: 1.669 ms
Remote clock offset: -38.211 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.55 Mbit/s
95th percentile per-packet one-way delay: 153.382 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 17.41 Mbit/s
95th percentile per-packet one-way delay: 147.152 ms
Loss rate: 2.38%
-- Flow 2:
Average throughput: 10.24 Mbit/s
95th percentile per-packet one-way delay: 182.492 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 145.266 ms
Loss rate: 3.09%

Run 10: Report of Verus — Data Link

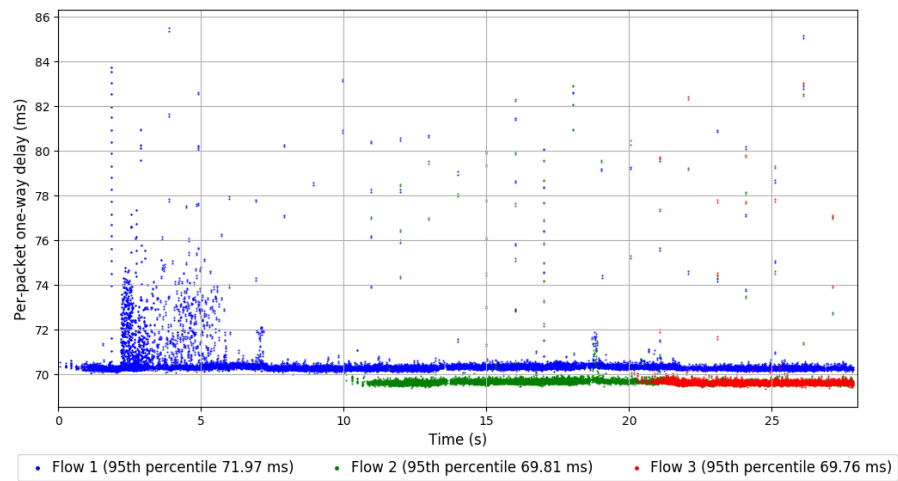
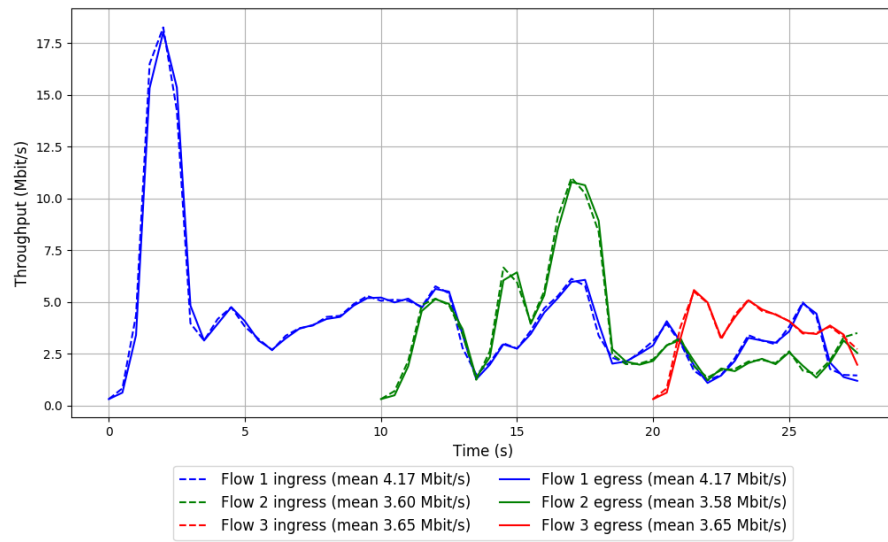


Run 1: Statistics of Copa

Start at: 2017-11-16 07:19:52
End at: 2017-11-16 07:20:22
Local clock offset: -0.246 ms
Remote clock offset: -28.918 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 70.935 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 71.975 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 69.807 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 69.764 ms
Loss rate: 2.21%

Run 1: Report of Copa — Data Link

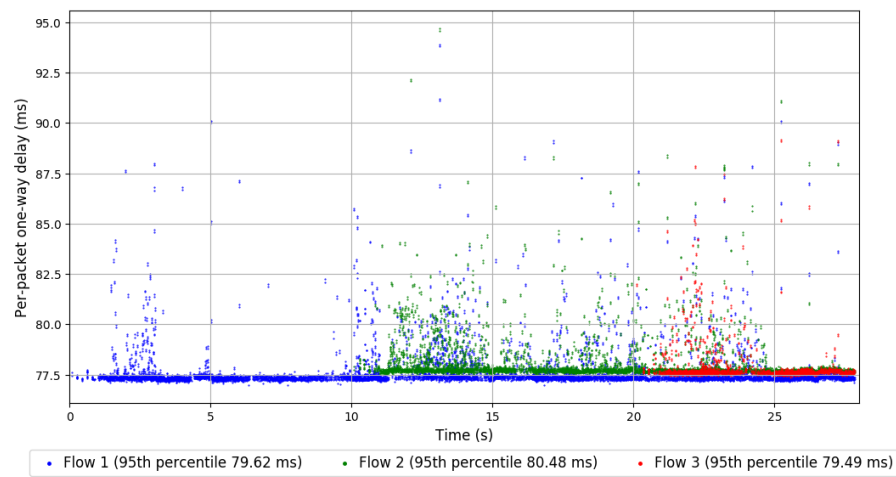
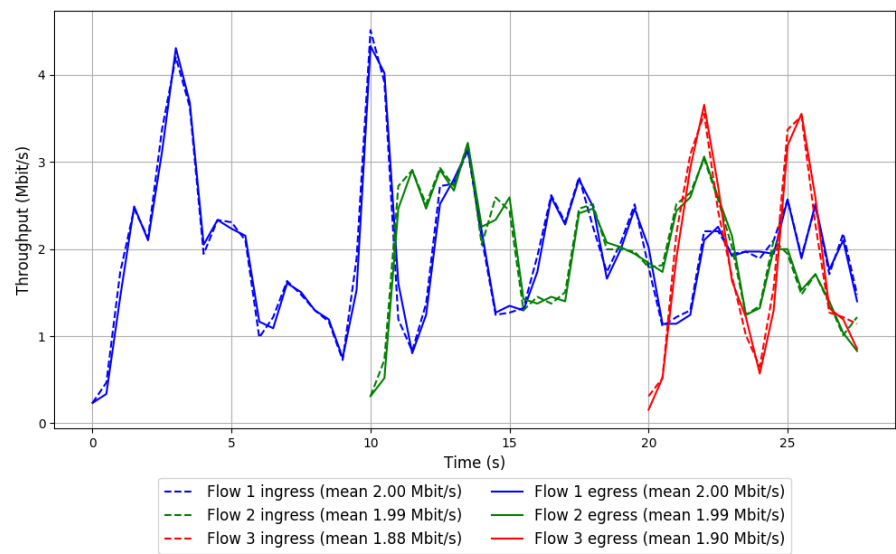


Run 2: Statistics of Copa

Start at: 2017-11-16 07:39:32
End at: 2017-11-16 07:40:02
Local clock offset: 0.006 ms
Remote clock offset: -35.884 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 80.044 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 79.618 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 80.477 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 79.493 ms
Loss rate: 1.65%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

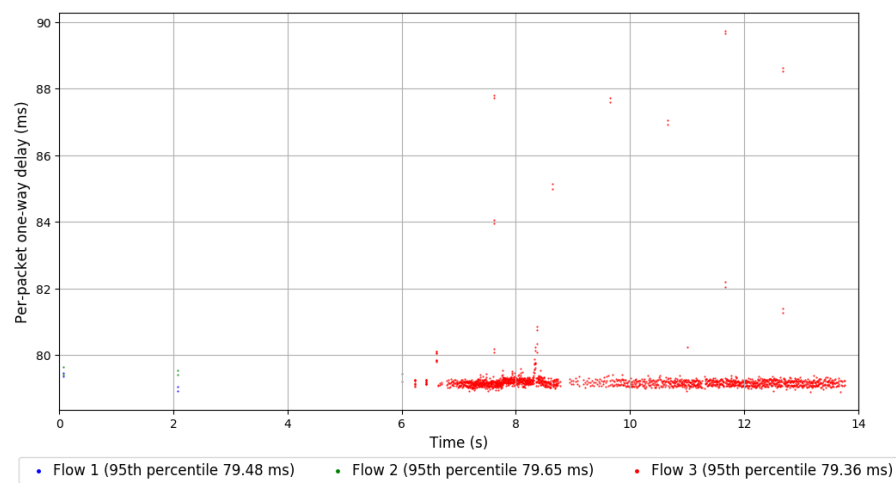
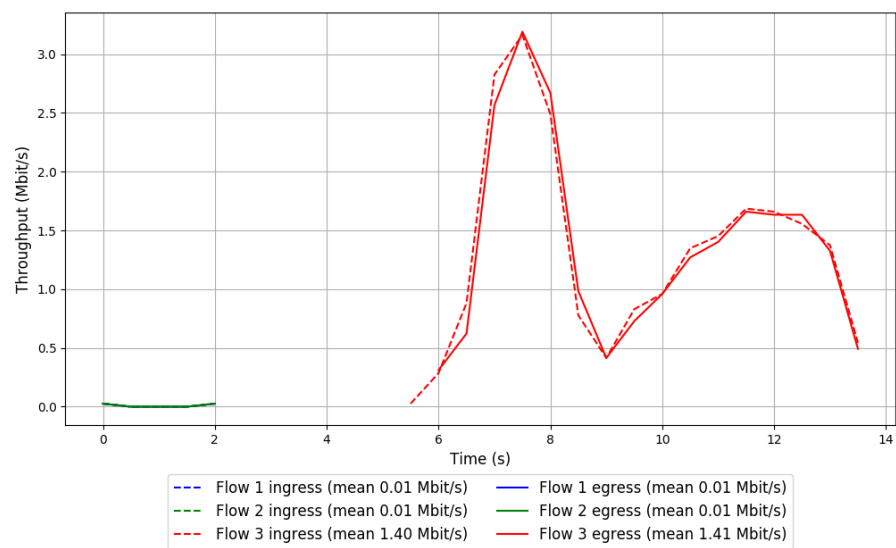
Start at: 2017-11-16 07:59:23

End at: 2017-11-16 07:59:53

Local clock offset: 0.082 ms

Remote clock offset: -36.258 ms

Run 3: Report of Copa — Data Link

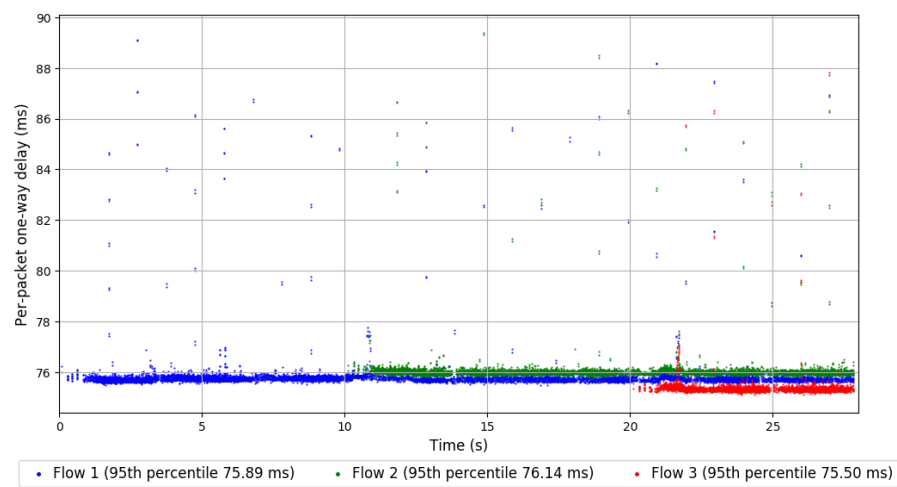
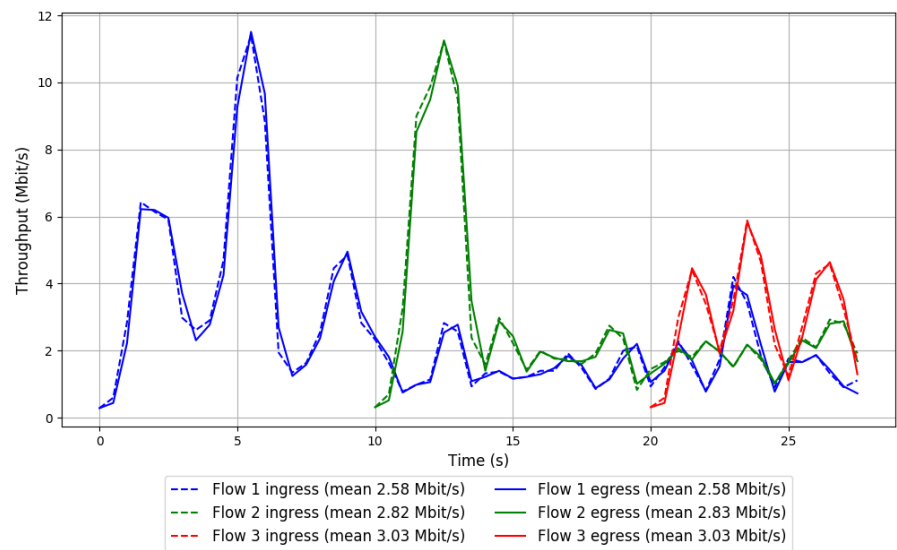


Run 4: Statistics of Copa

Start at: 2017-11-16 08:19:02
End at: 2017-11-16 08:19:32
Local clock offset: 0.406 ms
Remote clock offset: -32.09 ms

Below is generated by plot.py at 2017-11-16 13:58:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 76.086 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 75.885 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 76.144 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 75.500 ms
Loss rate: 1.84%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

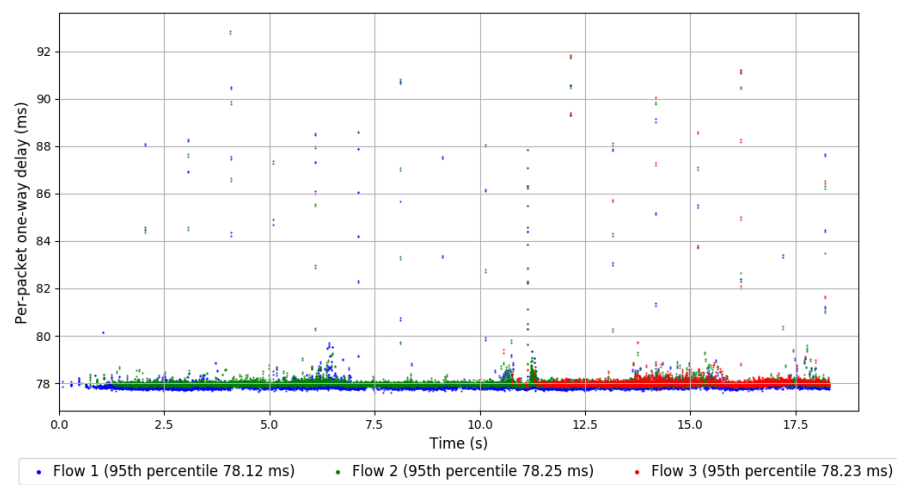
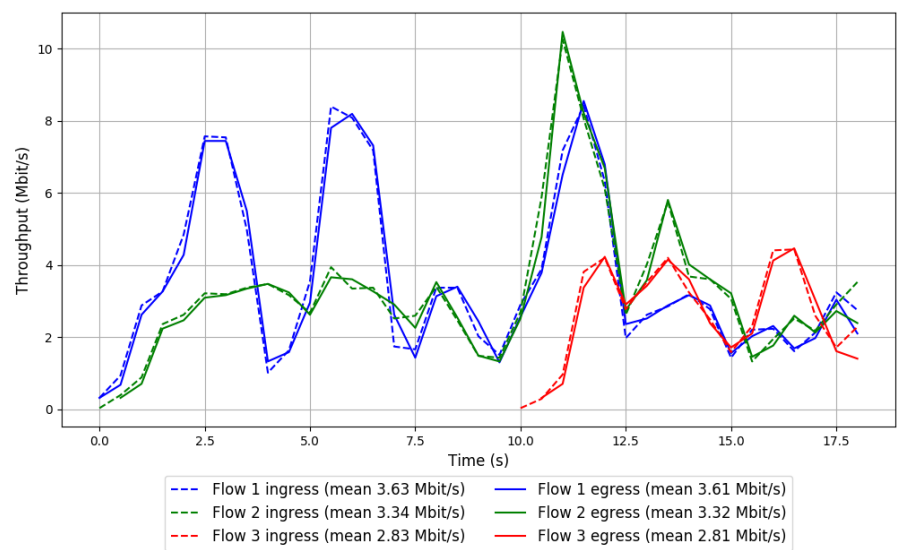
Start at: 2017-11-16 08:39:32

End at: 2017-11-16 08:40:02

Local clock offset: 0.559 ms

Remote clock offset: -33.403 ms

Run 5: Report of Copa — Data Link

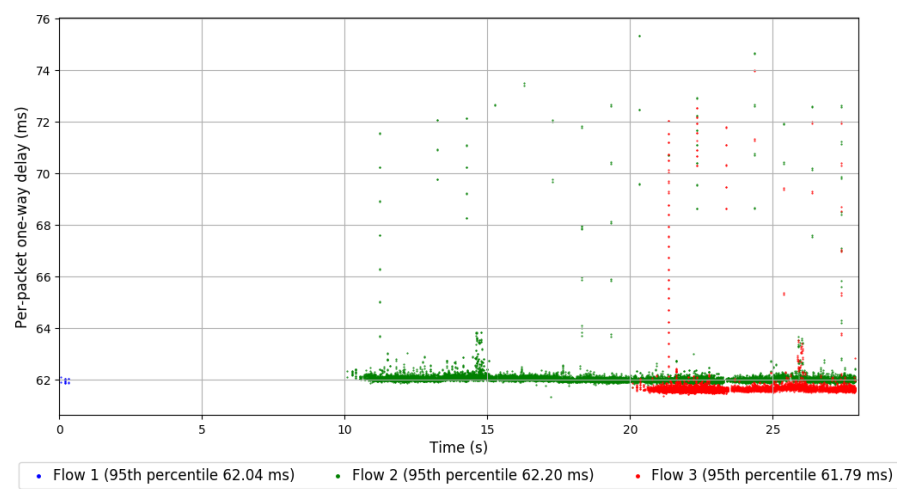
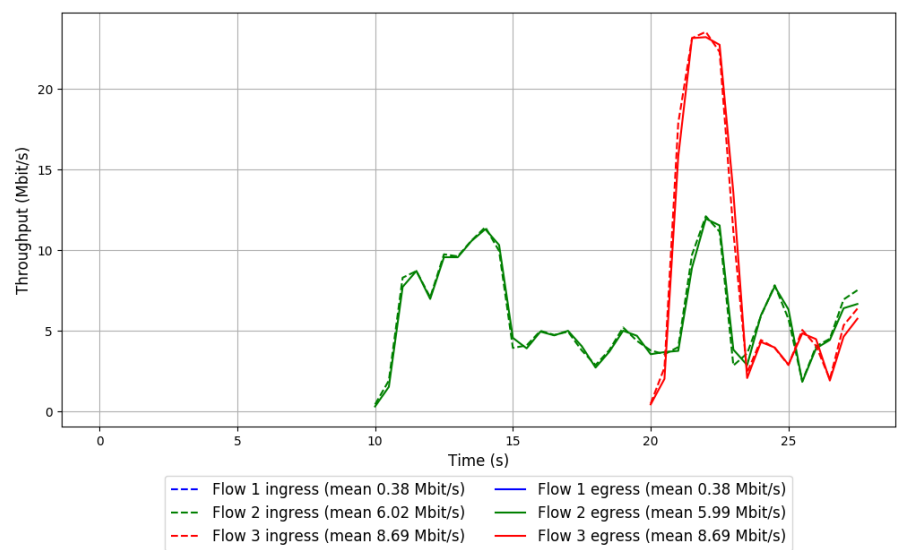


Run 6: Statistics of Copa

Start at: 2017-11-16 08:59:57
End at: 2017-11-16 09:00:27
Local clock offset: 0.605 ms
Remote clock offset: -17.614 ms

Below is generated by plot.py at 2017-11-16 13:58:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 62.166 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 62.036 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 62.198 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 61.793 ms
Loss rate: 1.38%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 09:19:28

End at: 2017-11-16 09:19:58

Local clock offset: 1.073 ms

Remote clock offset: 3.294 ms

Below is generated by plot.py at 2017-11-16 13:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 41.585 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 41.641 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 41.314 ms

Loss rate: 1.05%

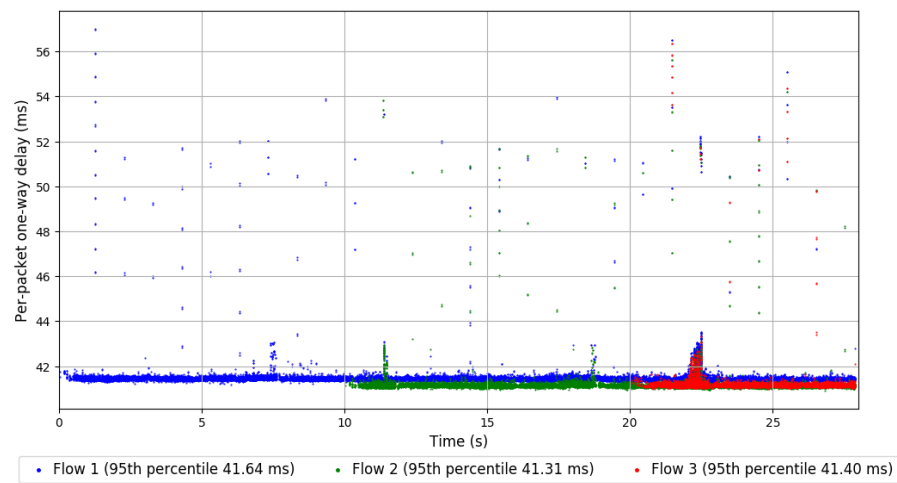
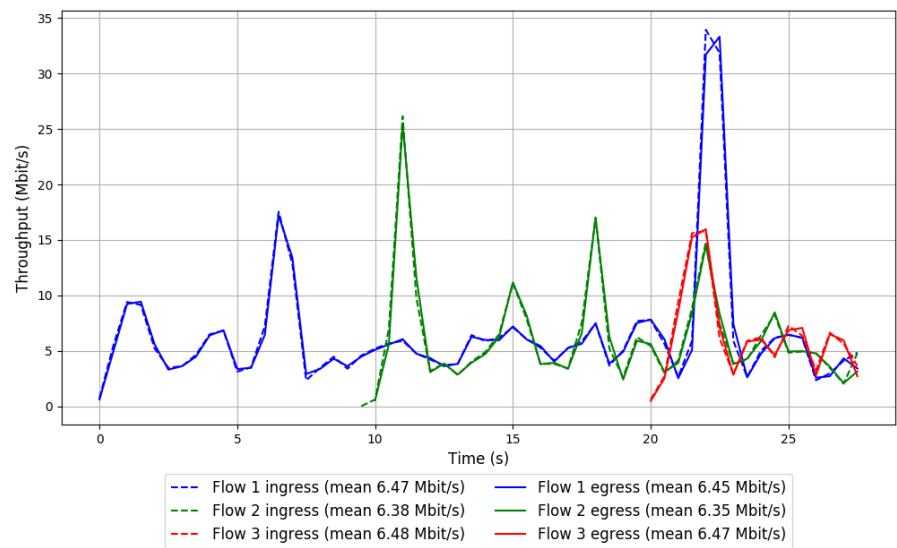
-- Flow 3:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 41.397 ms

Loss rate: 1.33%

Run 7: Report of Copa — Data Link

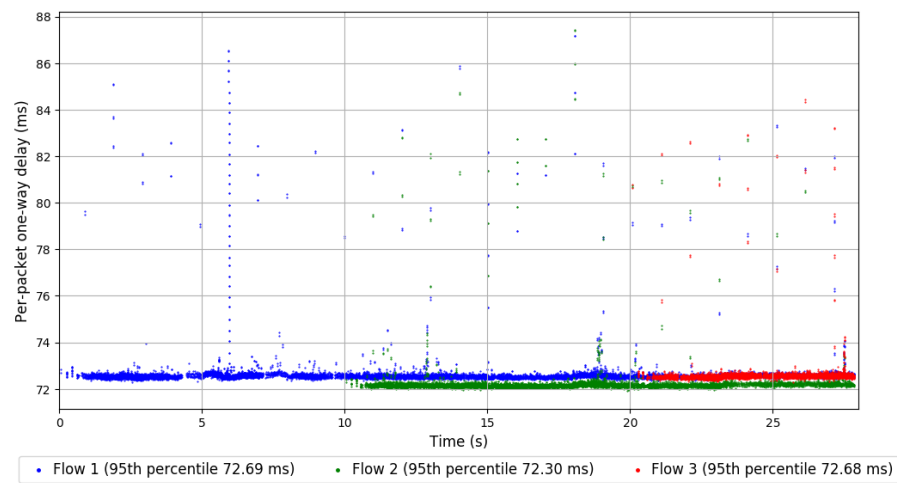
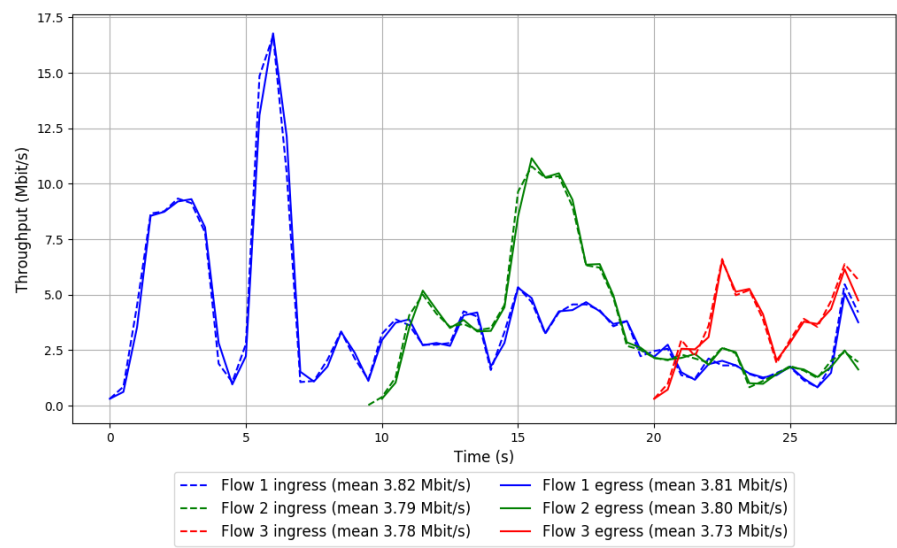


Run 8: Statistics of Copa

Start at: 2017-11-16 09:38:42
End at: 2017-11-16 09:39:12
Local clock offset: 1.263 ms
Remote clock offset: -28.842 ms

Below is generated by plot.py at 2017-11-16 13:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 72.665 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 72.691 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 72.297 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 72.682 ms
Loss rate: 3.37%

Run 8: Report of Copa — Data Link

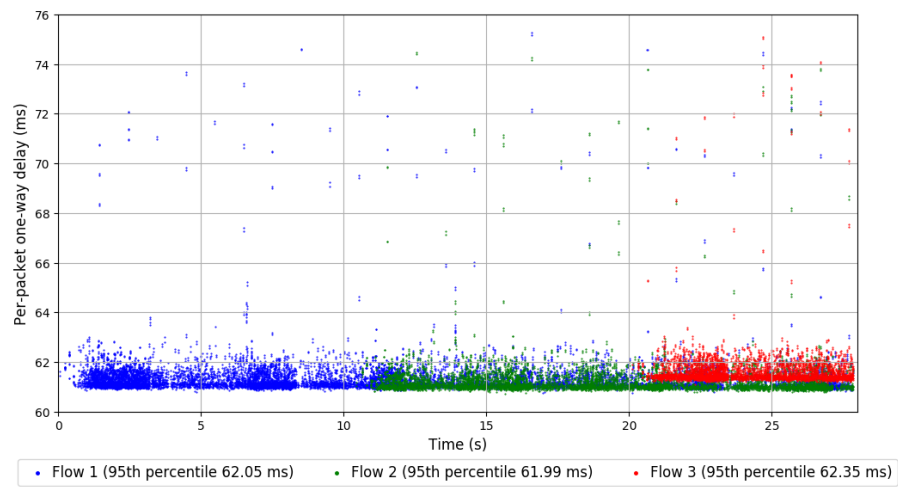
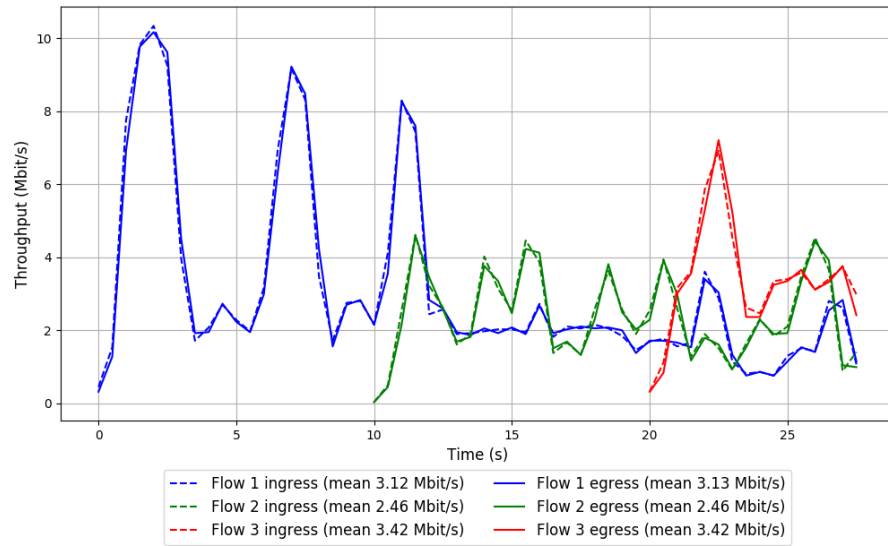


Run 9: Statistics of Copa

Start at: 2017-11-16 09:58:15
End at: 2017-11-16 09:58:45
Local clock offset: 1.375 ms
Remote clock offset: -19.152 ms

Below is generated by plot.py at 2017-11-16 13:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 62.118 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 62.048 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 61.993 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 62.354 ms
Loss rate: 2.09%

Run 9: Report of Copa — Data Link

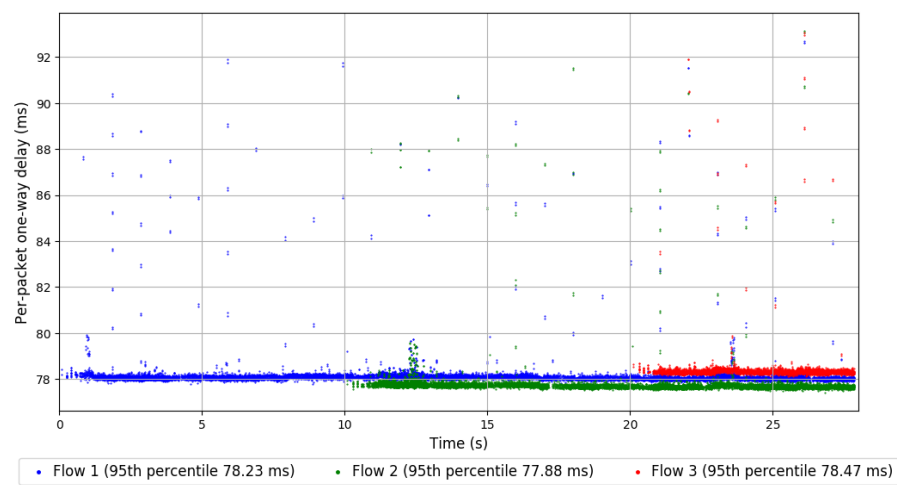
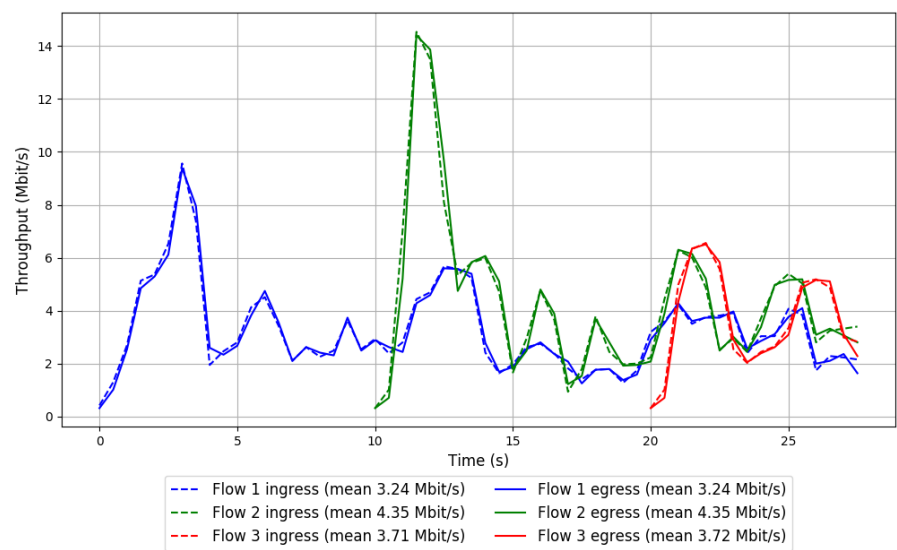


Run 10: Statistics of Copa

Start at: 2017-11-16 10:17:58
End at: 2017-11-16 10:18:28
Local clock offset: 1.406 ms
Remote clock offset: -38.344 ms

Below is generated by plot.py at 2017-11-16 13:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 78.363 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 78.228 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 77.875 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 78.465 ms
Loss rate: 1.81%

Run 10: Report of Copa — Data Link

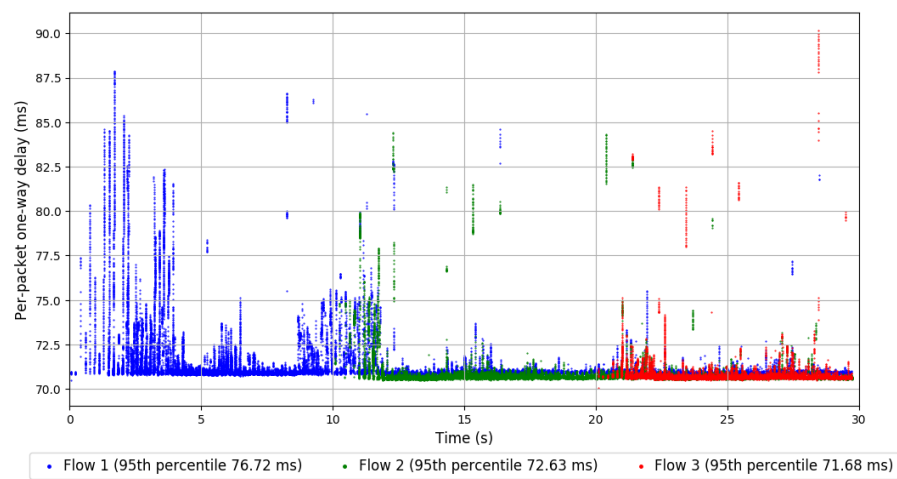
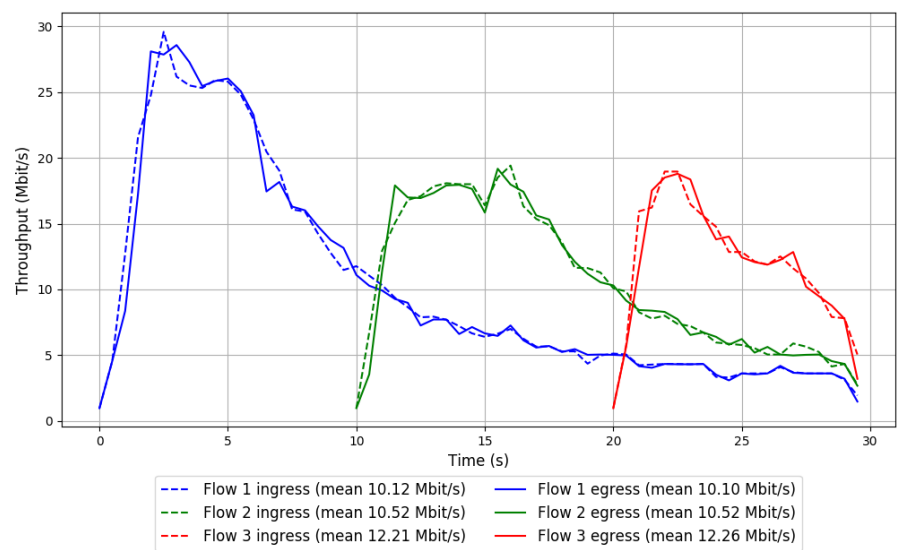


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 07:22:53
End at: 2017-11-16 07:23:23
Local clock offset: -0.16 ms
Remote clock offset: -29.455 ms

# Below is generated by plot.py at 2017-11-16 13:58:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 74.654 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 76.717 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 72.632 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 12.26 Mbit/s
95th percentile per-packet one-way delay: 71.681 ms
Loss rate: 1.23%
```


Run 1: Report of Indigo — Data Link

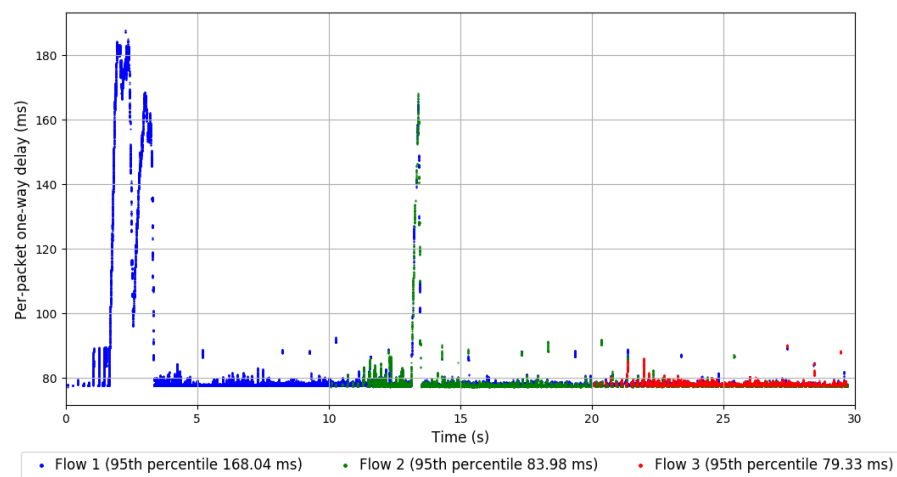
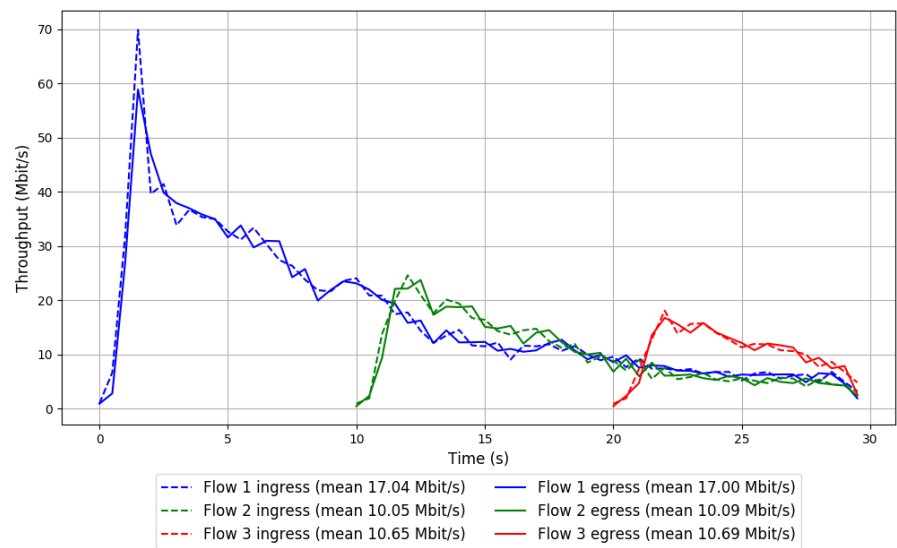


Run 2: Statistics of Indigo

Start at: 2017-11-16 07:43:03
End at: 2017-11-16 07:43:33
Local clock offset: 0.156 ms
Remote clock offset: -35.713 ms

Below is generated by plot.py at 2017-11-16 13:58:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.07 Mbit/s
95th percentile per-packet one-way delay: 156.356 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 168.041 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 10.09 Mbit/s
95th percentile per-packet one-way delay: 83.983 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 10.69 Mbit/s
95th percentile per-packet one-way delay: 79.330 ms
Loss rate: 1.56%

Run 2: Report of Indigo — Data Link

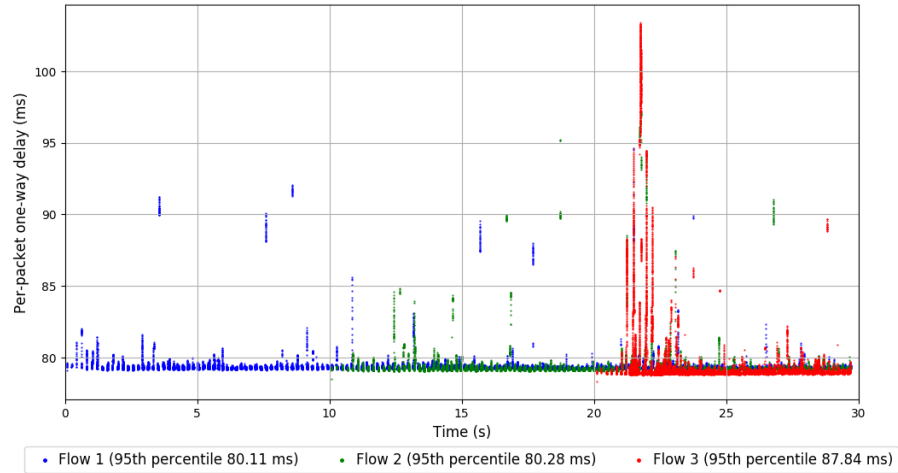
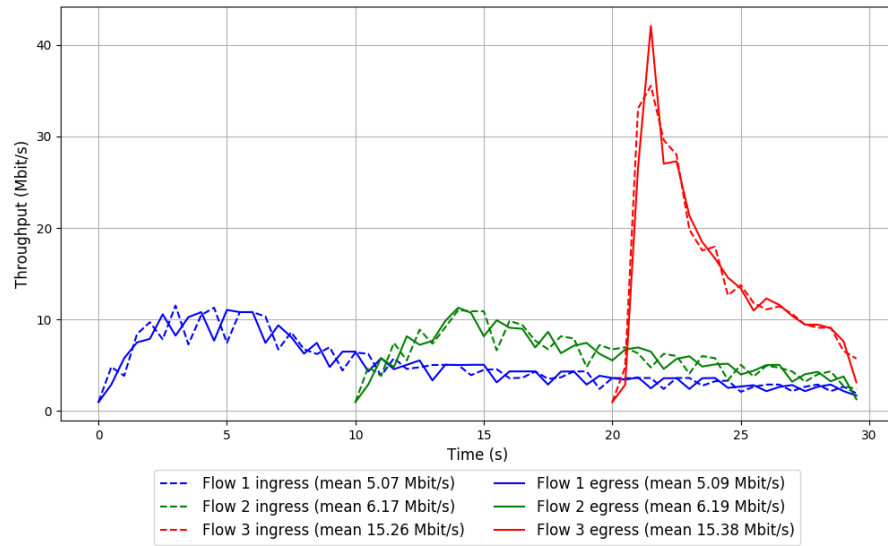


Run 3: Statistics of Indigo

Start at: 2017-11-16 08:02:26
End at: 2017-11-16 08:02:56
Local clock offset: 0.354 ms
Remote clock offset: -36.022 ms

Below is generated by plot.py at 2017-11-16 13:58:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.16 Mbit/s
95th percentile per-packet one-way delay: 82.703 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 80.113 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 80.275 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 15.38 Mbit/s
95th percentile per-packet one-way delay: 87.840 ms
Loss rate: 1.17%

Run 3: Report of Indigo — Data Link

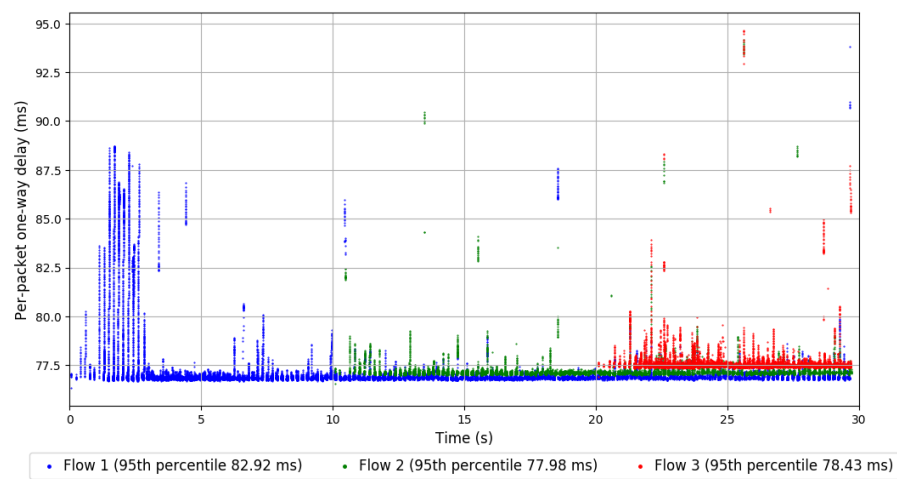
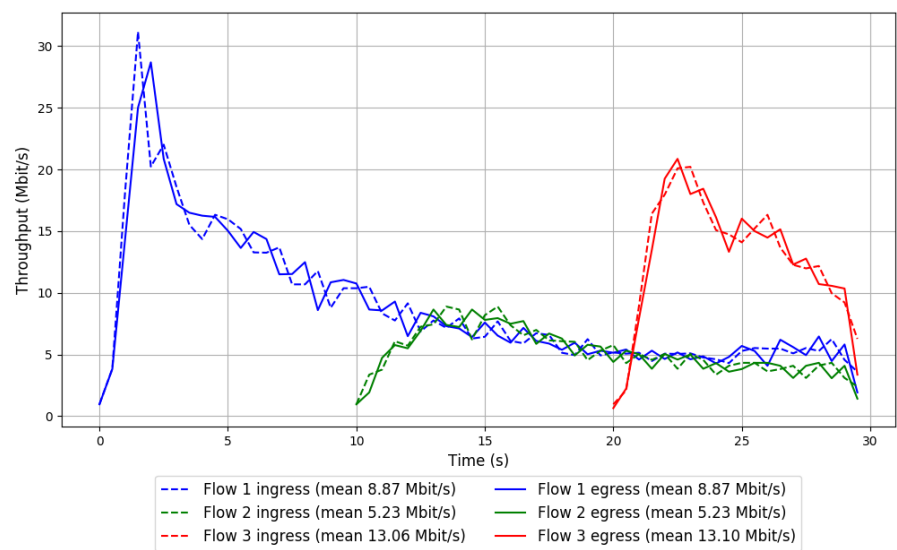


Run 4: Statistics of Indigo

Start at: 2017-11-16 08:22:19
End at: 2017-11-16 08:22:49
Local clock offset: 0.317 ms
Remote clock offset: -33.59 ms

Below is generated by plot.py at 2017-11-16 13:58:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.56 Mbit/s
95th percentile per-packet one-way delay: 79.524 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 82.922 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 77.979 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 78.431 ms
Loss rate: 1.58%

Run 4: Report of Indigo — Data Link

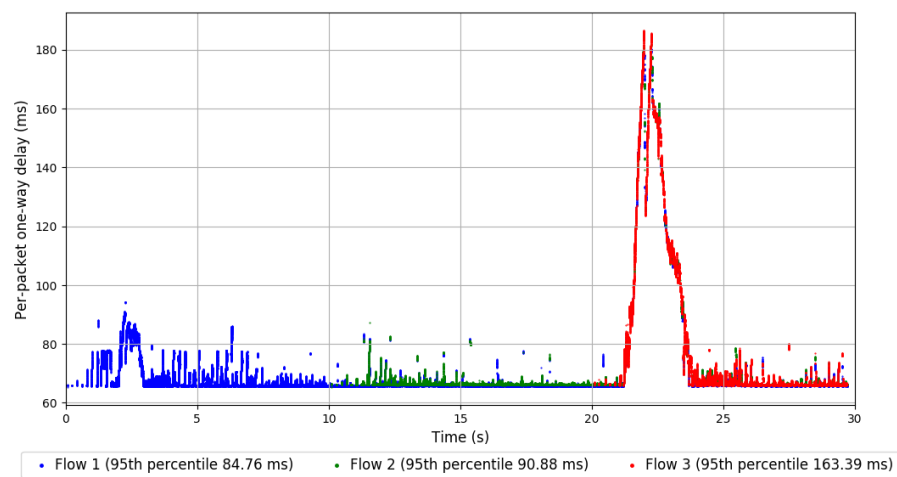
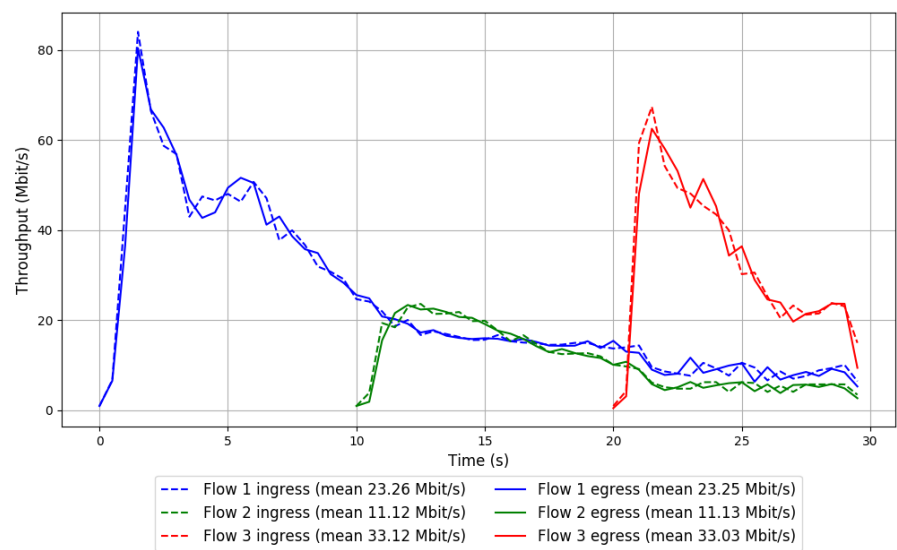


Run 5: Statistics of Indigo

Start at: 2017-11-16 08:42:33
End at: 2017-11-16 08:43:03
Local clock offset: 0.601 ms
Remote clock offset: -21.653 ms

Below is generated by plot.py at 2017-11-16 13:59:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.32 Mbit/s
95th percentile per-packet one-way delay: 138.547 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 84.759 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 90.880 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 163.388 ms
Loss rate: 1.81%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-16 09:03:23

End at: 2017-11-16 09:03:53

Local clock offset: 0.644 ms

Remote clock offset: 1.388 ms

Below is generated by plot.py at 2017-11-16 13:59:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.69 Mbit/s

95th percentile per-packet one-way delay: 71.757 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 26.54 Mbit/s

95th percentile per-packet one-way delay: 82.470 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 9.88 Mbit/s

95th percentile per-packet one-way delay: 47.445 ms

Loss rate: 0.63%

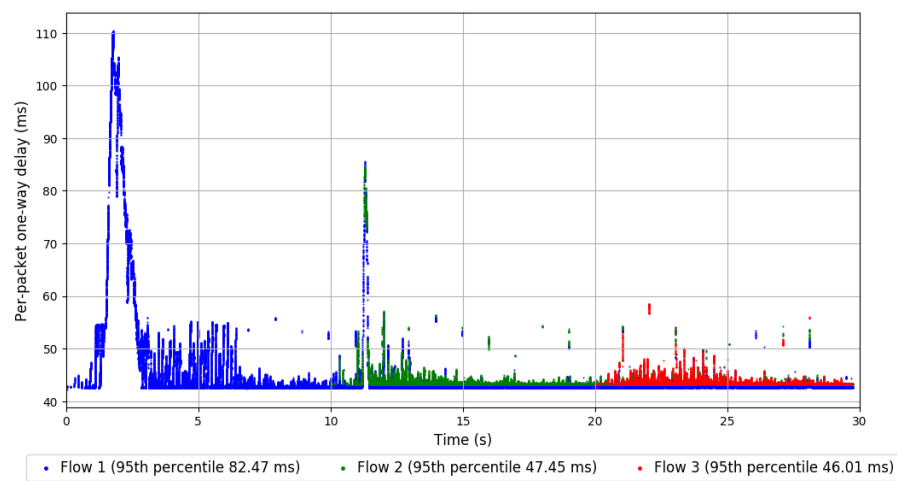
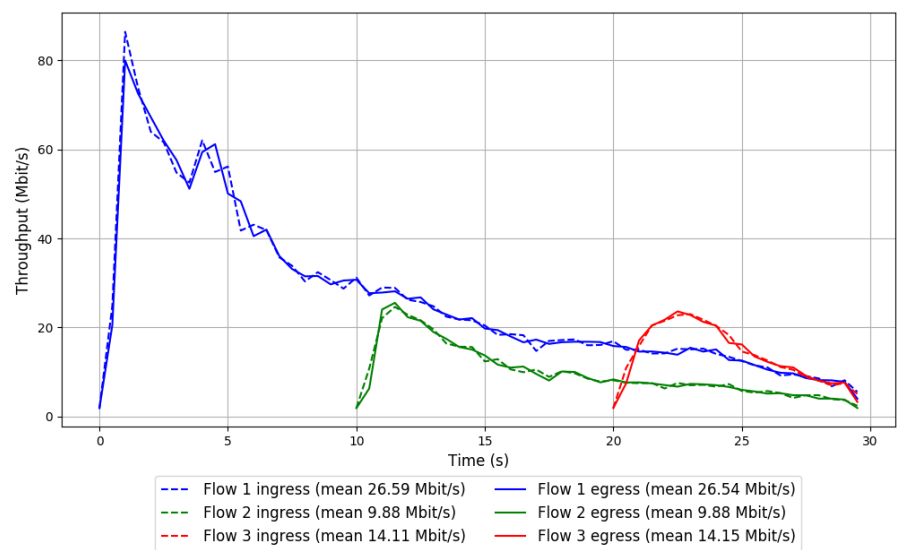
-- Flow 3:

Average throughput: 14.15 Mbit/s

95th percentile per-packet one-way delay: 46.011 ms

Loss rate: 1.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 09:22:26

End at: 2017-11-16 09:22:56

Local clock offset: 1.104 ms

Remote clock offset: 2.612 ms

Below is generated by plot.py at 2017-11-16 13:59:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.92 Mbit/s

95th percentile per-packet one-way delay: 49.448 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 22.75 Mbit/s

95th percentile per-packet one-way delay: 50.295 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 44.737 ms

Loss rate: 0.41%

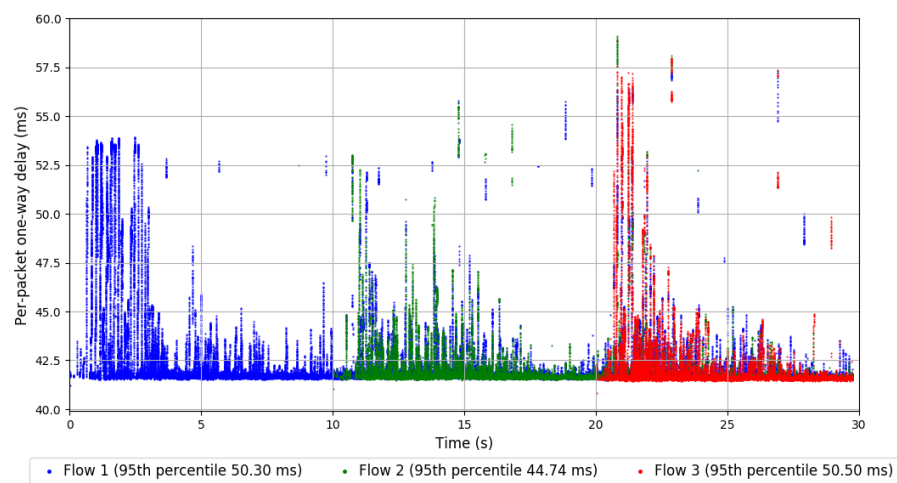
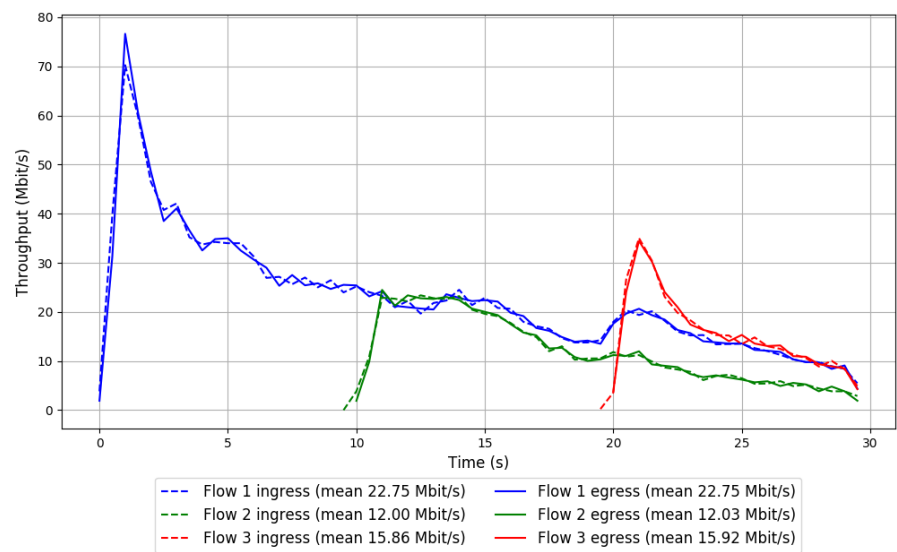
-- Flow 3:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 50.499 ms

Loss rate: 0.89%

Run 7: Report of Indigo — Data Link

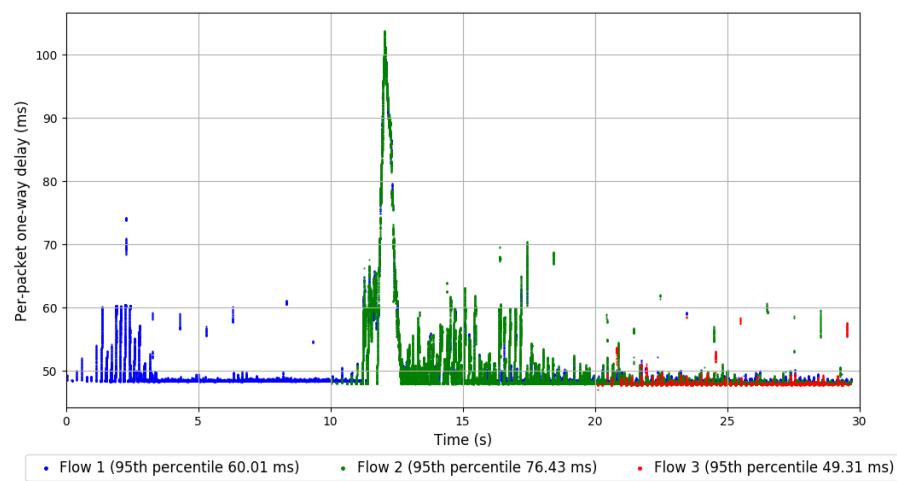
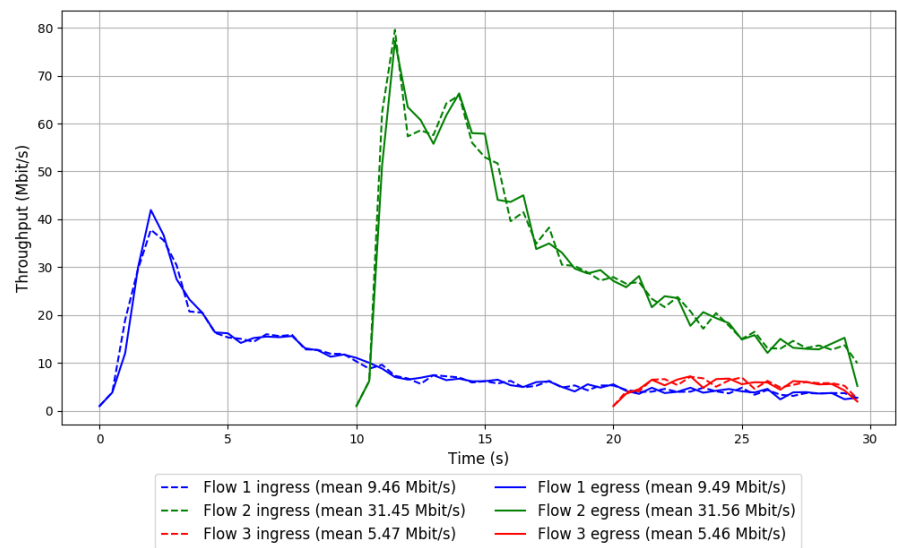


Run 8: Statistics of Indigo

Start at: 2017-11-16 09:41:46
End at: 2017-11-16 09:42:16
Local clock offset: 1.275 ms
Remote clock offset: -4.892 ms

```
# Below is generated by plot.py at 2017-11-16 13:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 65.078 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 60.013 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 76.433 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 49.315 ms
Loss rate: 1.97%
```

Run 8: Report of Indigo — Data Link

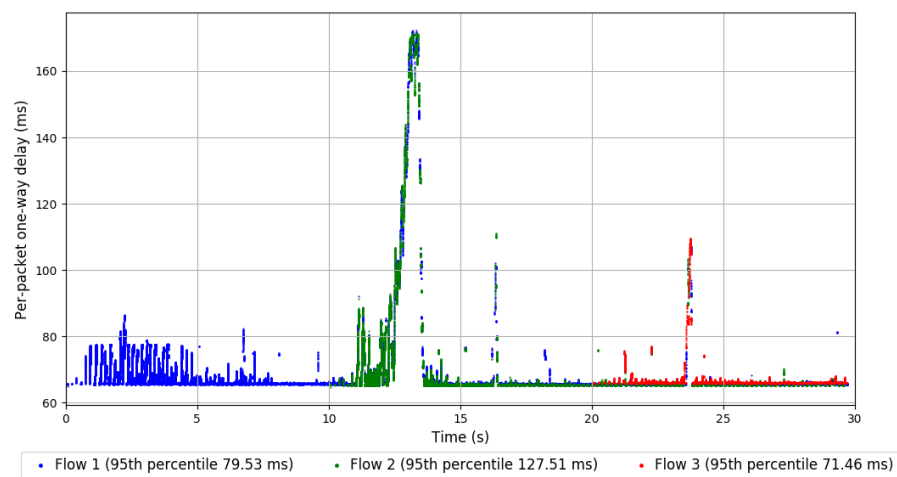
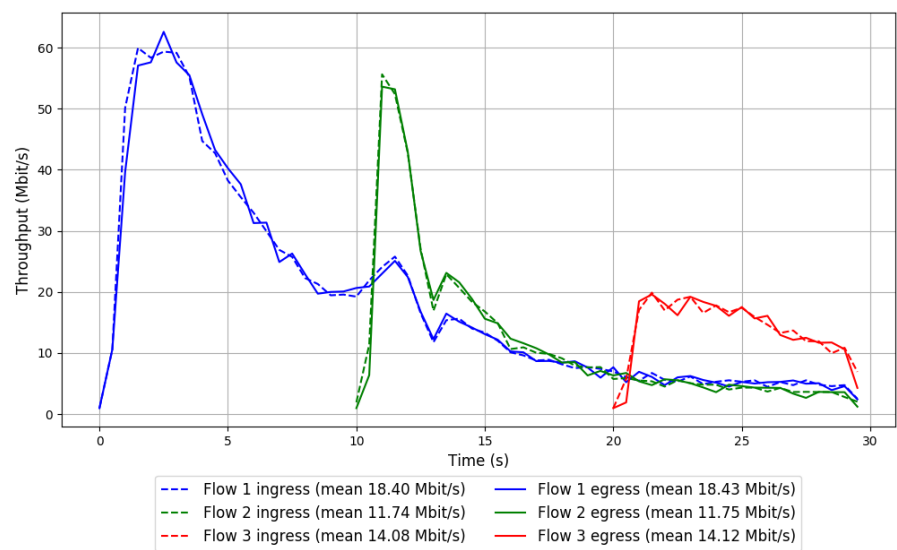


Run 9: Statistics of Indigo

Start at: 2017-11-16 10:01:06
End at: 2017-11-16 10:01:36
Local clock offset: 1.258 ms
Remote clock offset: -24.264 ms

Below is generated by plot.py at 2017-11-16 13:59:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.74 Mbit/s
95th percentile per-packet one-way delay: 88.844 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 18.43 Mbit/s
95th percentile per-packet one-way delay: 79.533 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 127.506 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 71.463 ms
Loss rate: 1.60%

Run 9: Report of Indigo — Data Link

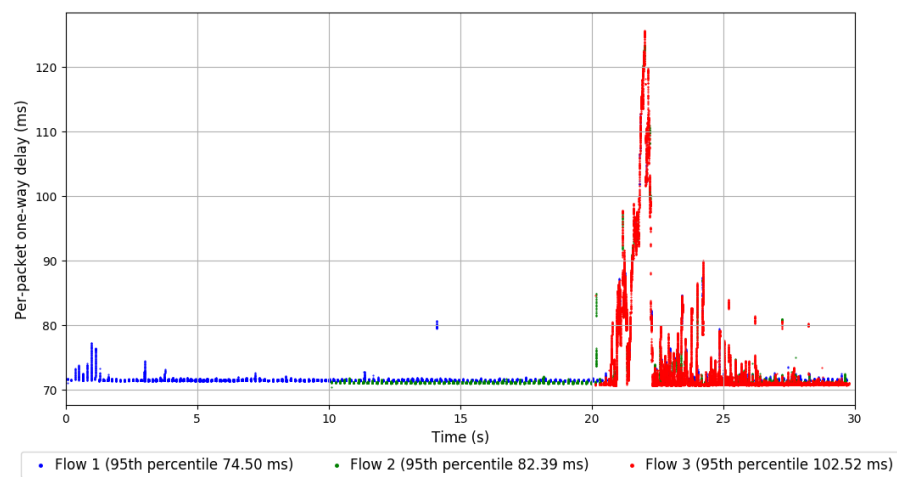
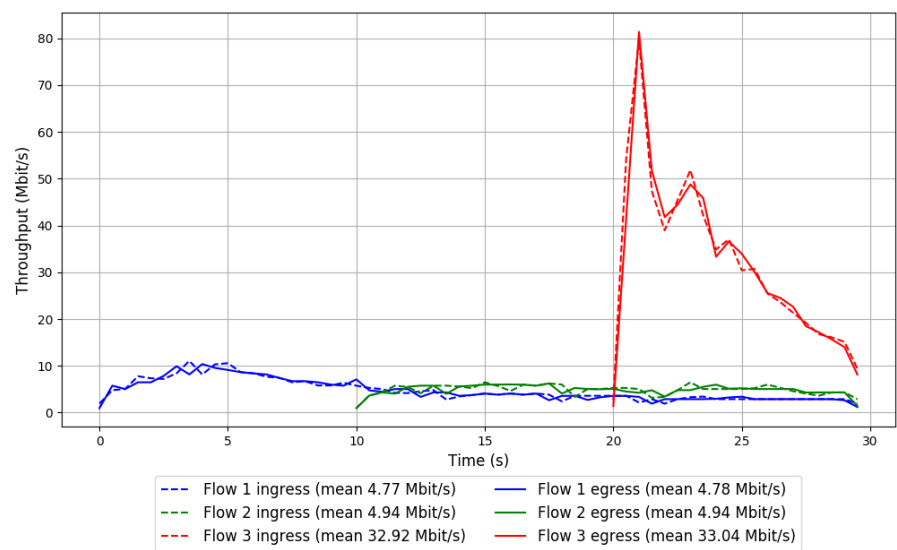


Run 10: Statistics of Indigo

Start at: 2017-11-16 10:20:43
End at: 2017-11-16 10:21:13
Local clock offset: 1.554 ms
Remote clock offset: -31.598 ms

Below is generated by plot.py at 2017-11-16 13:59:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 95.068 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 74.495 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 82.390 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 102.517 ms
Loss rate: 0.86%

Run 10: Report of Indigo — Data Link

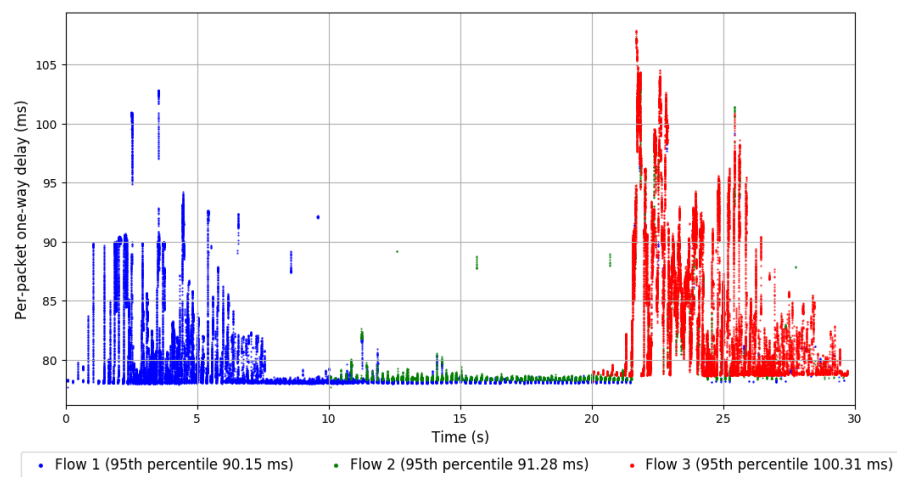
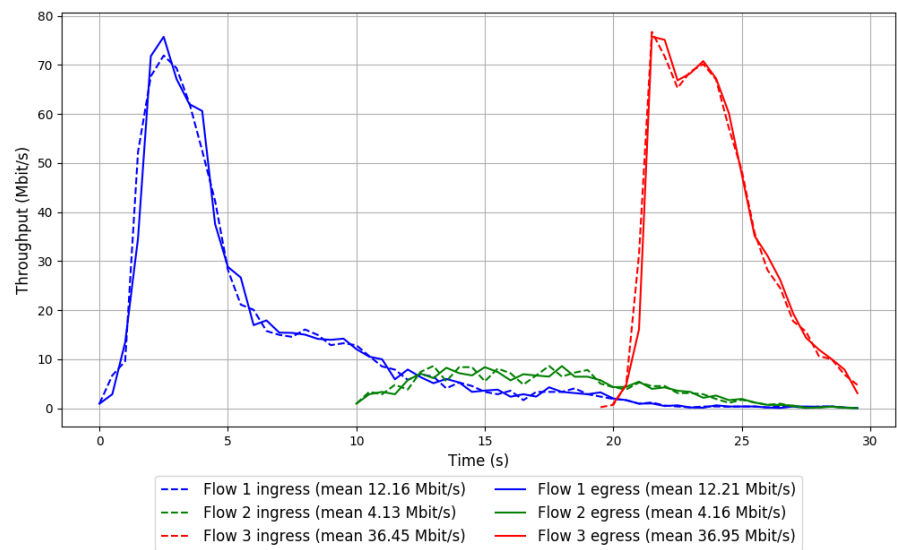


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 07:18:25
End at: 2017-11-16 07:18:55
Local clock offset: -0.146 ms
Remote clock offset: -37.34 ms

# Below is generated by plot.py at 2017-11-16 13:59:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.91 Mbit/s
95th percentile per-packet one-way delay: 96.630 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 90.148 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 91.275 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 100.312 ms
Loss rate: 0.52%
```

Run 1: Report of Indigo-calib — Data Link

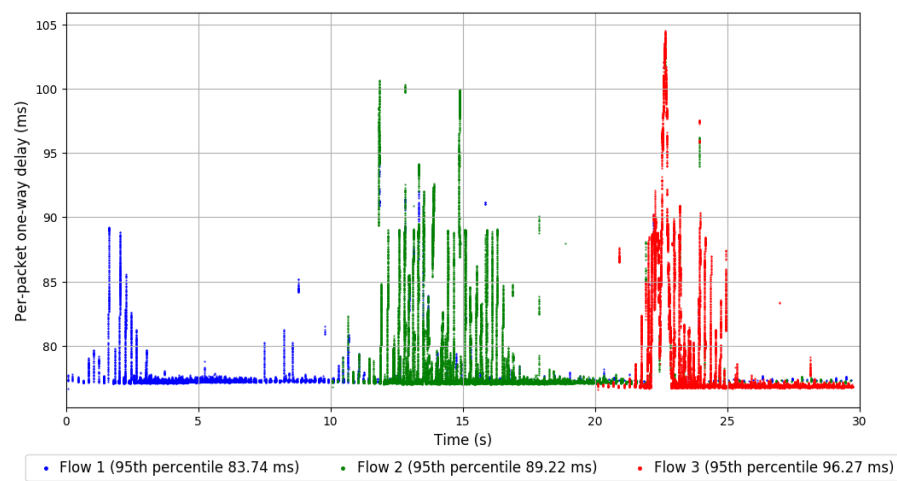
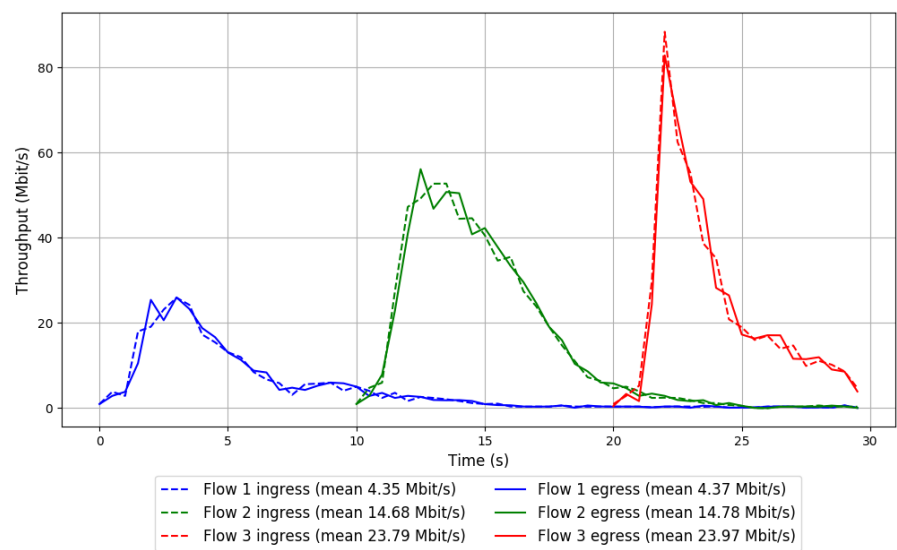


Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 07:38:03
End at: 2017-11-16 07:38:33
Local clock offset: -0.068 ms
Remote clock offset: -35.593 ms

Below is generated by plot.py at 2017-11-16 13:59:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.89 Mbit/s
95th percentile per-packet one-way delay: 89.438 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 83.741 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 14.78 Mbit/s
95th percentile per-packet one-way delay: 89.223 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 96.274 ms
Loss rate: 0.70%

Run 2: Report of Indigo-calib — Data Link

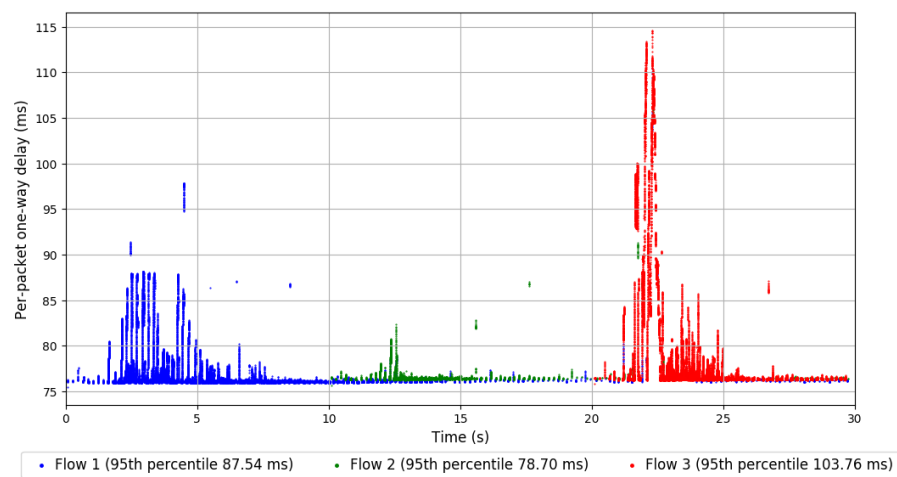
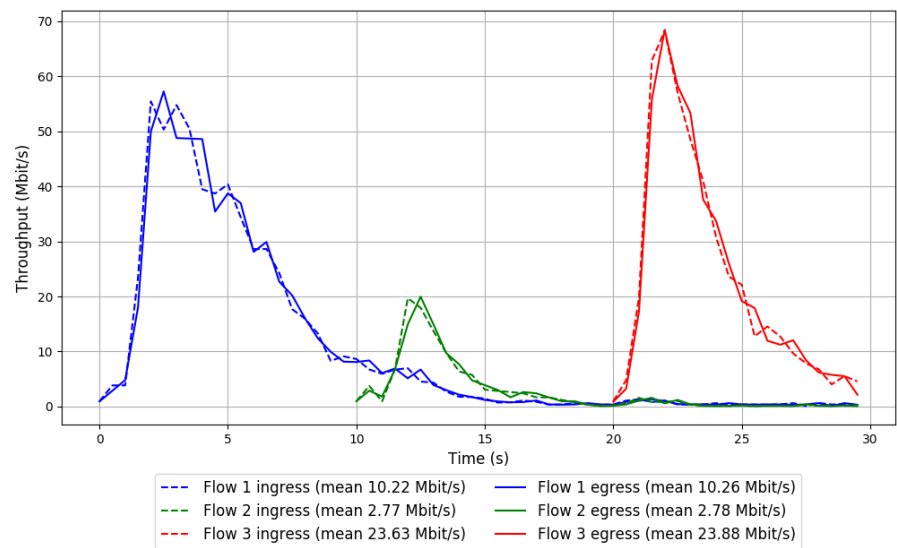


Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 07:57:56
End at: 2017-11-16 07:58:26
Local clock offset: 0.054 ms
Remote clock offset: -33.352 ms

Below is generated by plot.py at 2017-11-16 13:59:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 94.548 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 10.26 Mbit/s
95th percentile per-packet one-way delay: 87.537 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 78.698 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 103.760 ms
Loss rate: 0.73%

Run 3: Report of Indigo-calib — Data Link

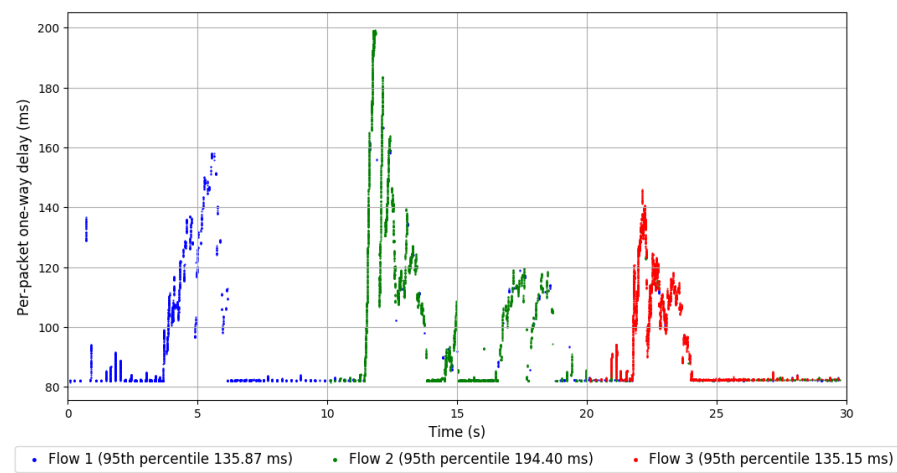
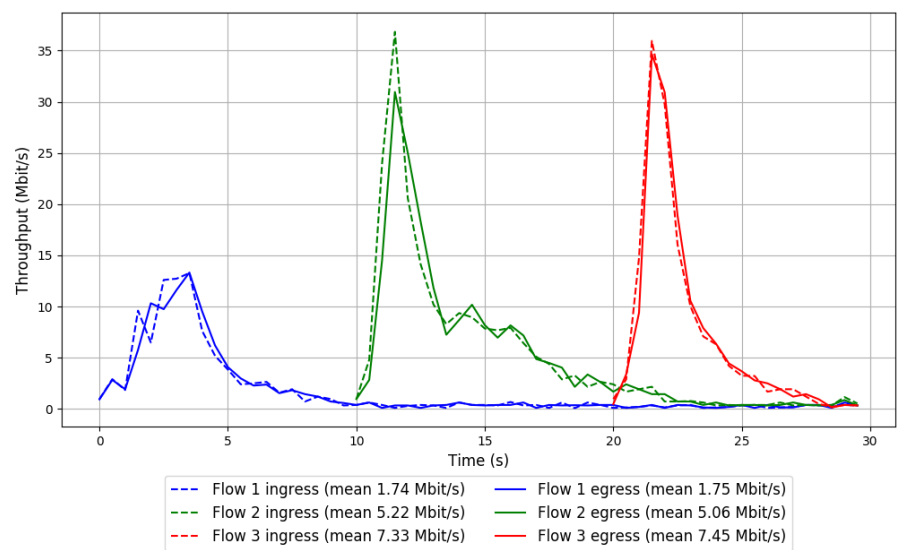


Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 08:17:42
End at: 2017-11-16 08:18:12
Local clock offset: 0.277 ms
Remote clock offset: -38.664 ms

Below is generated by plot.py at 2017-11-16 13:59:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 163.860 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 135.870 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 194.399 ms
Loss rate: 3.09%
-- Flow 3:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 135.154 ms
Loss rate: 0.19%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

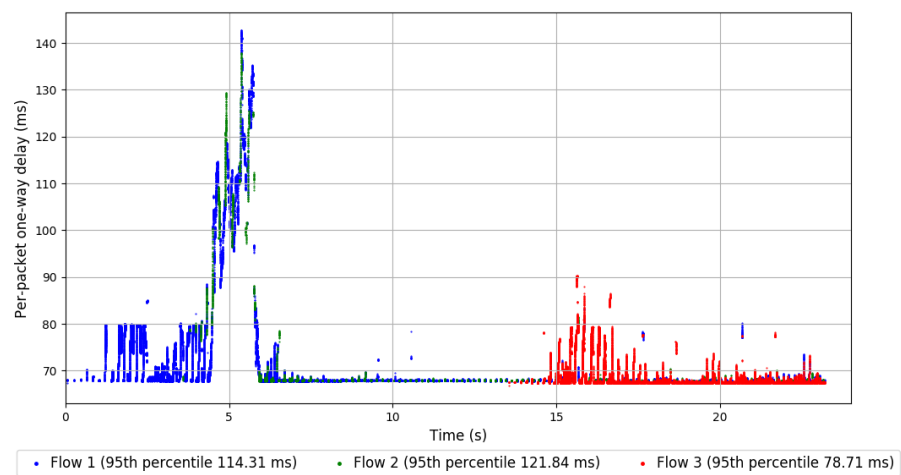
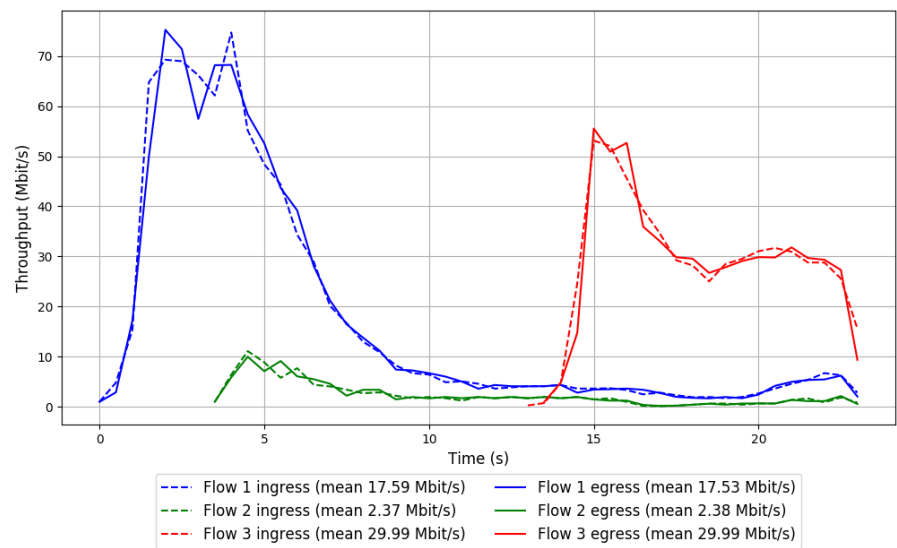
Start at: 2017-11-16 08:38:07

End at: 2017-11-16 08:38:37

Local clock offset: 0.46 ms

Remote clock offset: -23.173 ms

Run 5: Report of Indigo-calib — Data Link

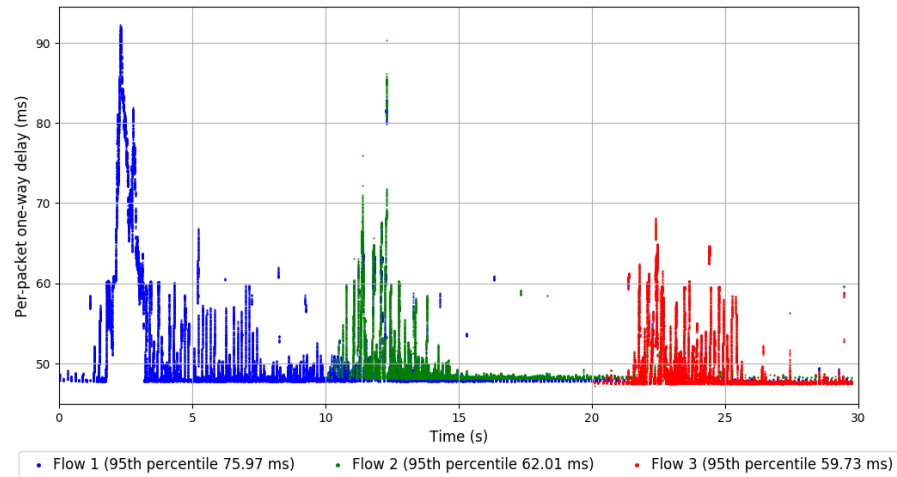
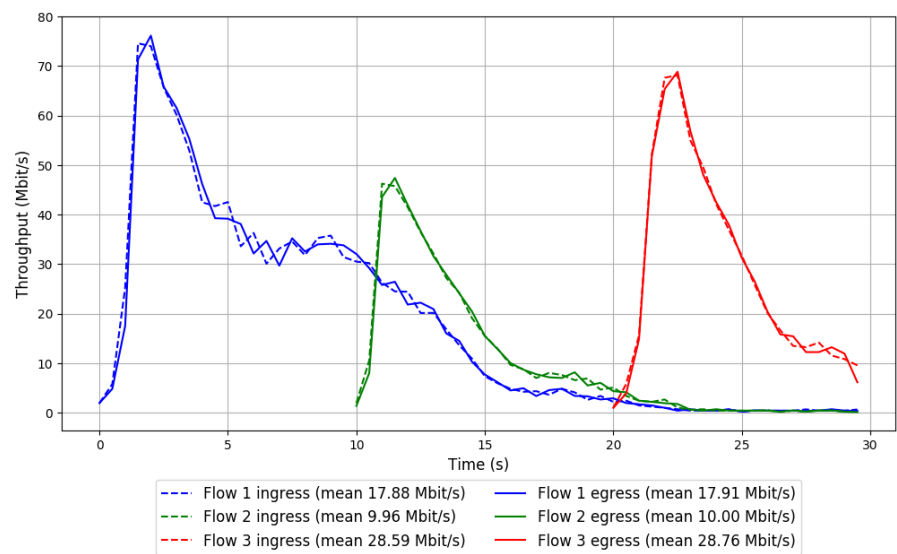


Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 08:58:22
End at: 2017-11-16 08:58:52
Local clock offset: 0.588 ms
Remote clock offset: -3.565 ms

Below is generated by plot.py at 2017-11-16 13:59:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.86 Mbit/s
95th percentile per-packet one-way delay: 67.280 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 75.971 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 62.008 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 59.734 ms
Loss rate: 0.87%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 09:18:08

End at: 2017-11-16 09:18:38

Local clock offset: 0.933 ms

Remote clock offset: 4.23 ms

Below is generated by plot.py at 2017-11-16 13:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 103.505 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 78.024 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 93.945 ms

Loss rate: 0.23%

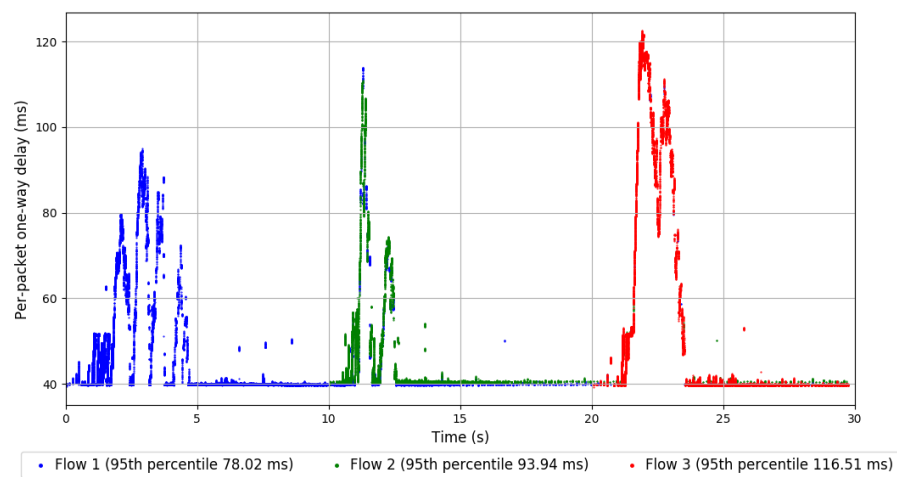
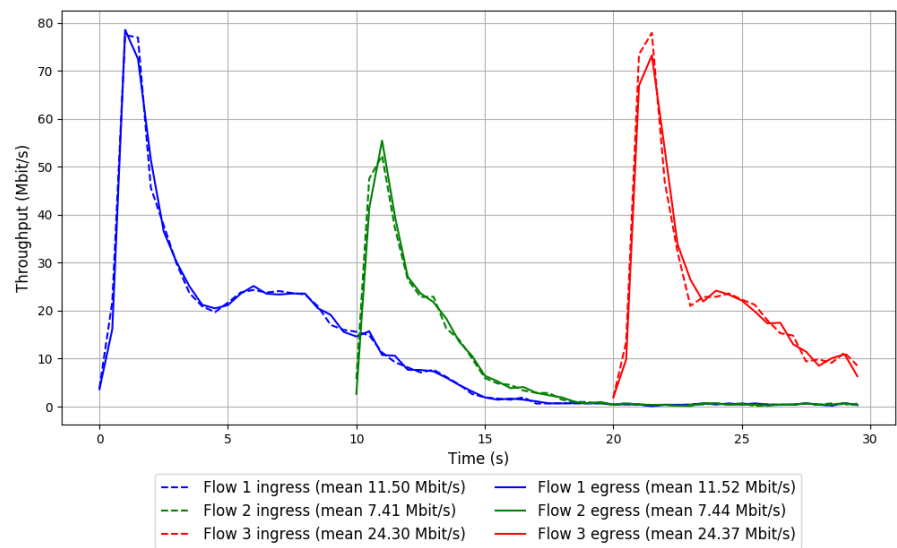
-- Flow 3:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 116.508 ms

Loss rate: 0.75%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 09:37:16

End at: 2017-11-16 09:37:46

Local clock offset: 1.166 ms

Remote clock offset: 2.852 ms

Below is generated by plot.py at 2017-11-16 13:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 86.211 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 60.736 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 89.173 ms

Loss rate: 0.46%

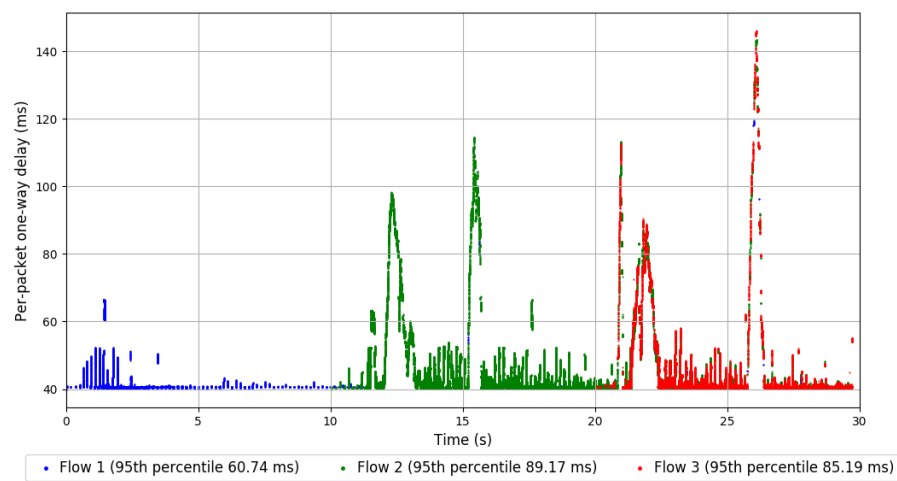
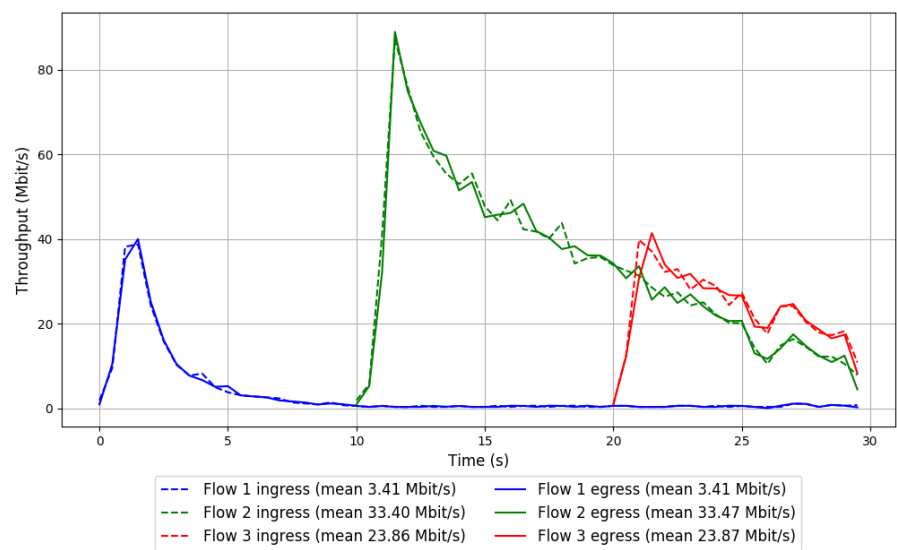
-- Flow 3:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 85.193 ms

Loss rate: 1.23%

Run 8: Report of Indigo-calib — Data Link

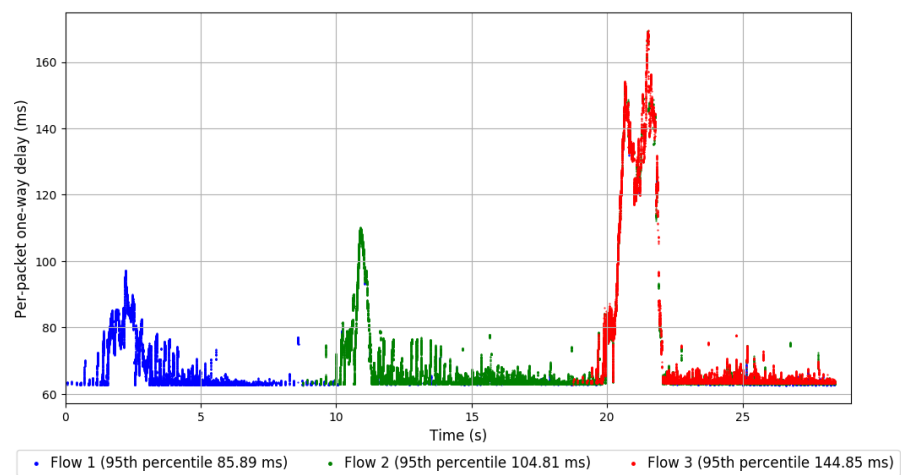
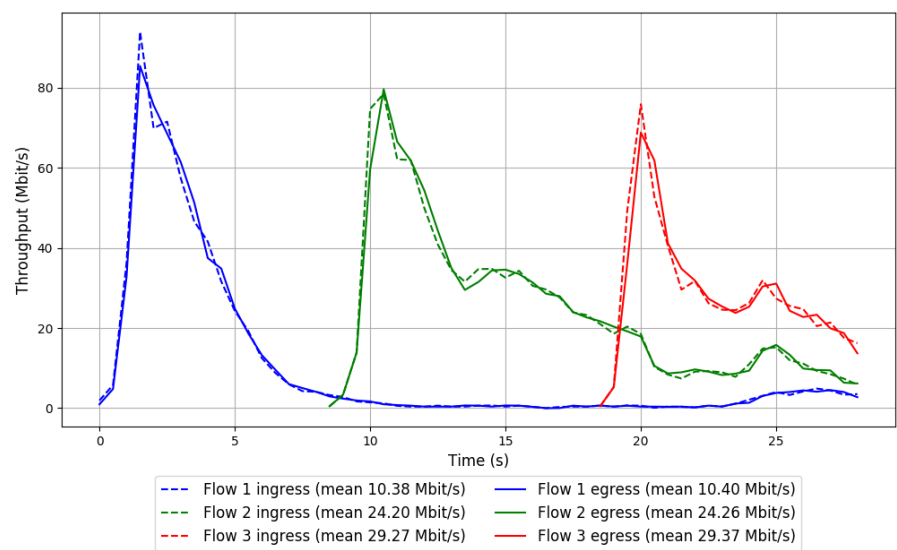


Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 09:56:55
End at: 2017-11-16 09:57:25
Local clock offset: 1.23 ms
Remote clock offset: -21.181 ms

Below is generated by plot.py at 2017-11-16 13:59:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.20 Mbit/s
95th percentile per-packet one-way delay: 131.716 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 85.886 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 104.815 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 144.853 ms
Loss rate: 1.03%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 10:16:24
End at: 2017-11-16 10:16:54
Local clock offset: 1.422 ms
Remote clock offset: -14.519 ms

Below is generated by plot.py at 2017-11-16 13:59:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 105.232 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 17.19 Mbit/s
95th percentile per-packet one-way delay: 110.953 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 101.801 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 89.888 ms
Loss rate: 1.62%

Run 10: Report of Indigo-calib — Data Link

