

Pantheon Report

Generated at 2017-12-01 13:37:59 (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).

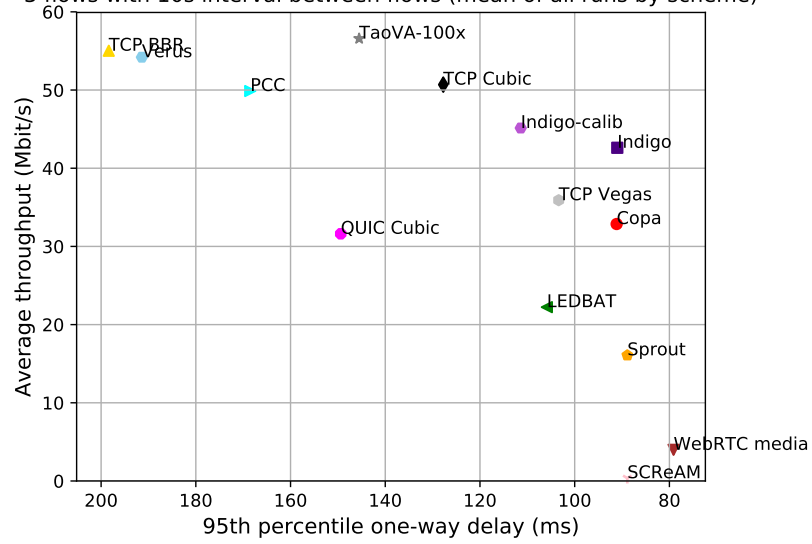
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

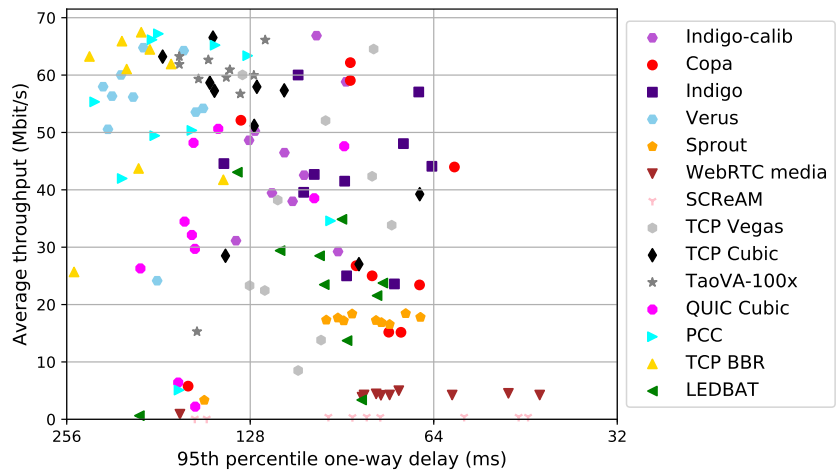
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
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



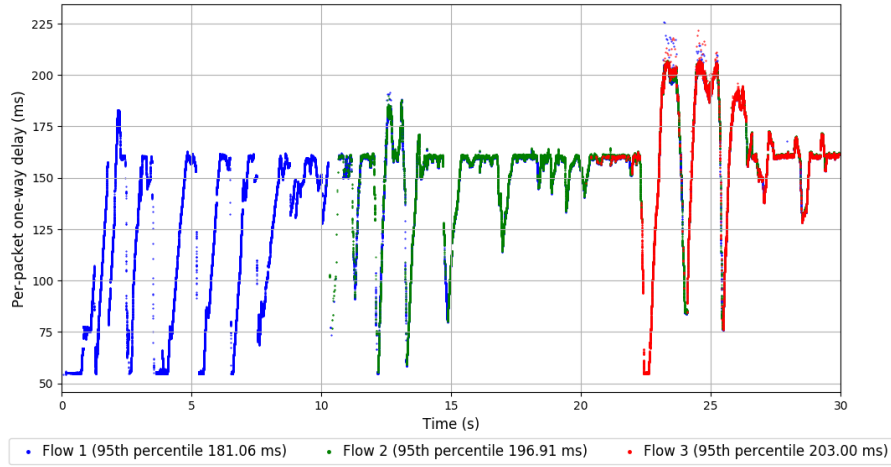
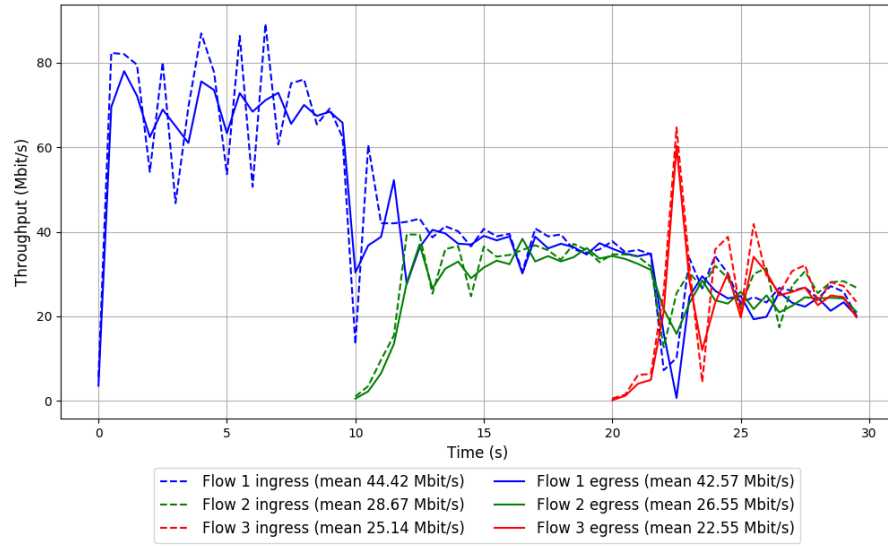
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	9	30.60	28.23	19.26	534.76	201.15	201.79	3.59	8.75	11.80
TCP Cubic	10	30.89	21.29	17.30	124.18	125.41	125.97	0.42	0.75	1.61
LEDBAT	10	12.32	12.33	8.53	546.46	106.14	121.77	0.60	1.39	5.42
PCC	10	38.38	11.50	11.87	167.51	169.12	171.20	5.15	9.15	9.16
QUIC Cubic	10	11.04	23.73	15.08	96.08	150.46	152.74	0.77	4.69	4.69
SCReAM	9	0.18	0.18	0.18	88.72	89.29	88.49	4.49	3.66	8.10
WebRTC media	10	2.22	1.27	0.49	79.07	78.64	79.87	1.68	2.30	3.96
Sprout	10	8.10	8.07	8.00	92.14	89.10	87.17	0.96	0.76	1.42
TaoVA-100x	10	32.71	22.98	32.81	144.13	151.26	142.73	2.49	3.81	4.22
TCP Vegas	10	19.56	17.35	14.89	99.84	100.55	110.09	0.48	0.63	2.35
Verus	10	32.36	26.19	14.07	186.12	190.08	200.49	3.37	5.40	6.80
Copa	10	20.85	14.29	10.19	89.65	94.30	91.76	1.82	2.15	4.89
Indigo	10	27.86	15.25	14.31	88.36	92.94	95.16	0.39	0.59	1.31
Indigo-calib	10	26.82	17.52	20.49	110.84	110.18	112.29	0.72	0.59	1.00

Run 1: Statistics of TCP BBR

Start at: 2017-12-01 07:26:46
End at: 2017-12-01 07:27:16
Local clock offset: 3.361 ms
Remote clock offset: -16.162 ms

Below is generated by plot.py at 2017-12-01 13:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.47 Mbit/s
95th percentile per-packet one-way delay: 193.199 ms
Loss rate: 6.31%
-- Flow 1:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 181.061 ms
Loss rate: 4.45%
-- Flow 2:
Average throughput: 26.55 Mbit/s
95th percentile per-packet one-way delay: 196.911 ms
Loss rate: 8.22%
-- Flow 3:
Average throughput: 22.55 Mbit/s
95th percentile per-packet one-way delay: 203.002 ms
Loss rate: 11.91%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-01 07:44:51

End at: 2017-12-01 07:45:21

Local clock offset: 4.032 ms

Remote clock offset: 0.353 ms

Below is generated by plot.py at 2017-12-01 13:27:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.69 Mbit/s

95th percentile per-packet one-way delay: 248.997 ms

Loss rate: 12.58%

-- Flow 1:

Average throughput: 24.98 Mbit/s

95th percentile per-packet one-way delay: 248.930 ms

Loss rate: 11.62%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 249.088 ms

Loss rate: 36.78%

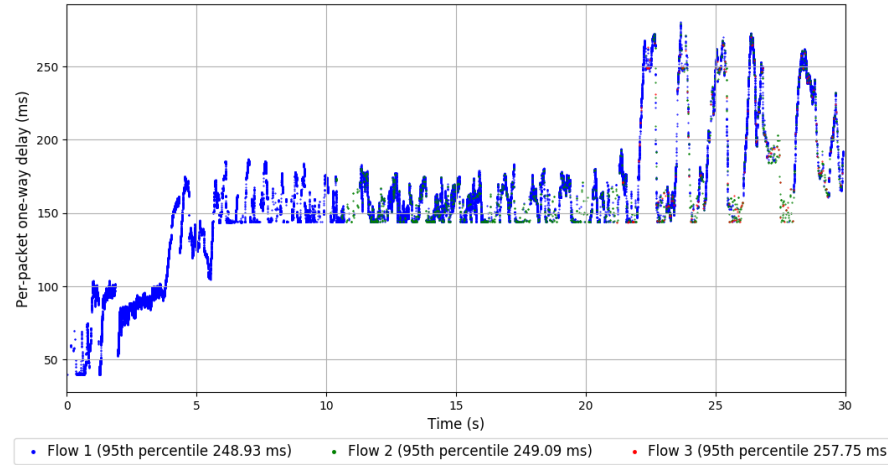
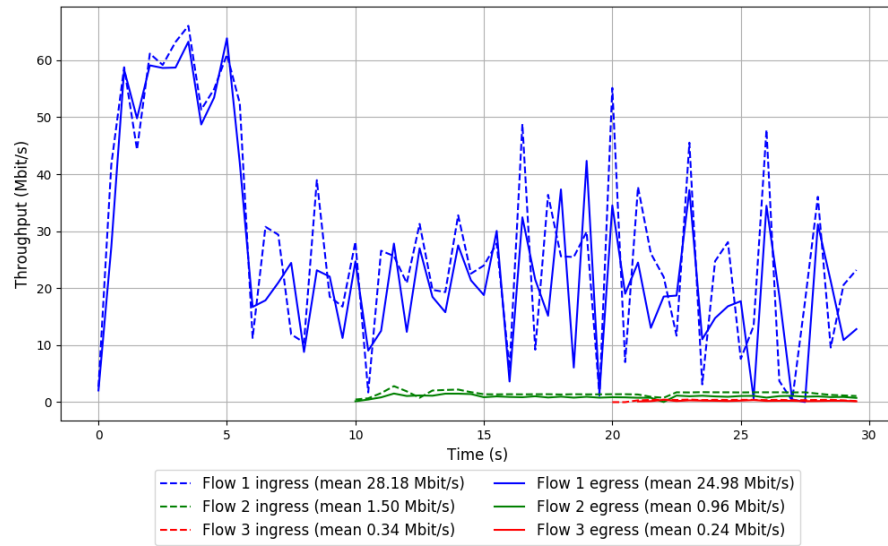
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 257.745 ms

Loss rate: 37.30%

Run 2: Report of TCP BBR — Data Link

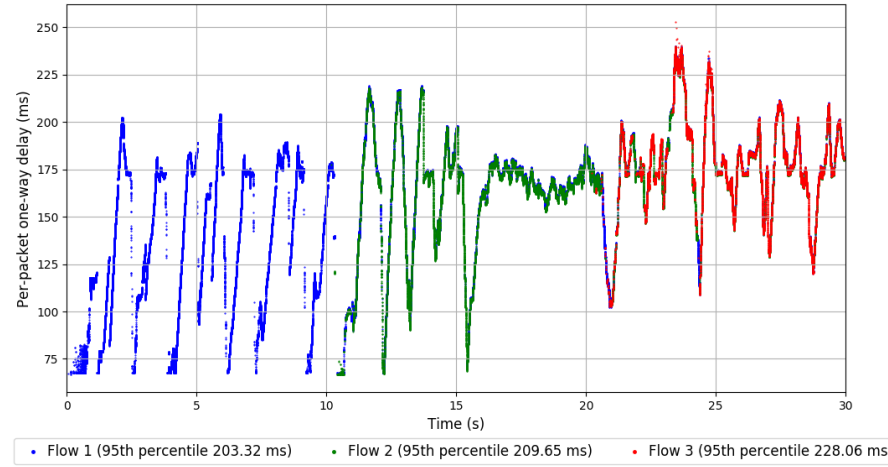
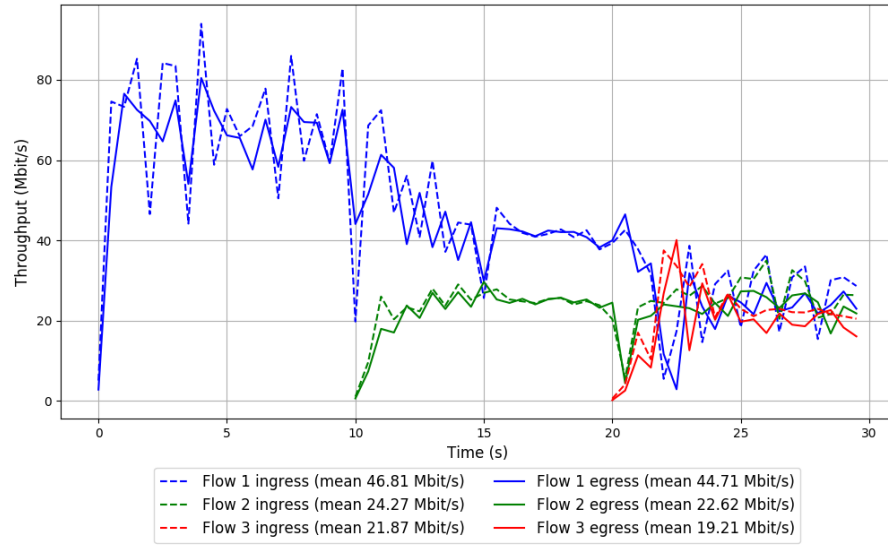


Run 3: Statistics of TCP BBR

Start at: 2017-12-01 08:07:34
End at: 2017-12-01 08:08:04
Local clock offset: 4.601 ms
Remote clock offset: -26.618 ms

Below is generated by plot.py at 2017-12-01 13:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.92 Mbit/s
95th percentile per-packet one-way delay: 207.822 ms
Loss rate: 6.39%
-- Flow 1:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 203.321 ms
Loss rate: 4.77%
-- Flow 2:
Average throughput: 22.62 Mbit/s
95th percentile per-packet one-way delay: 209.651 ms
Loss rate: 7.71%
-- Flow 3:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 228.057 ms
Loss rate: 13.88%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

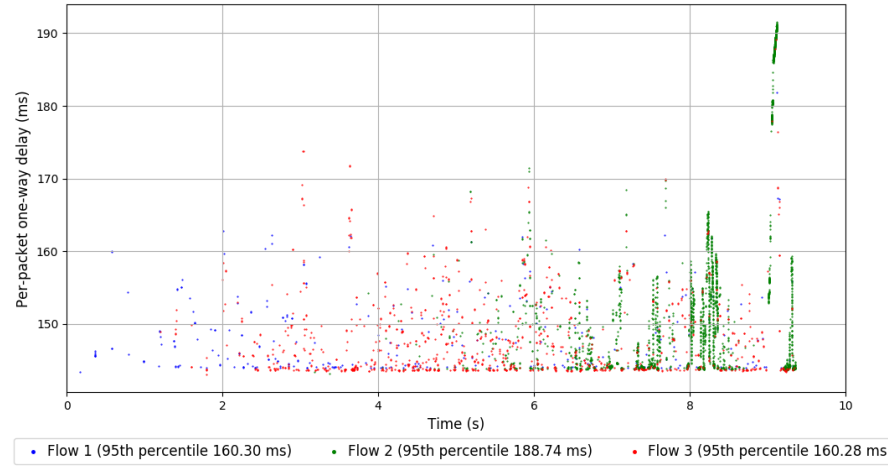
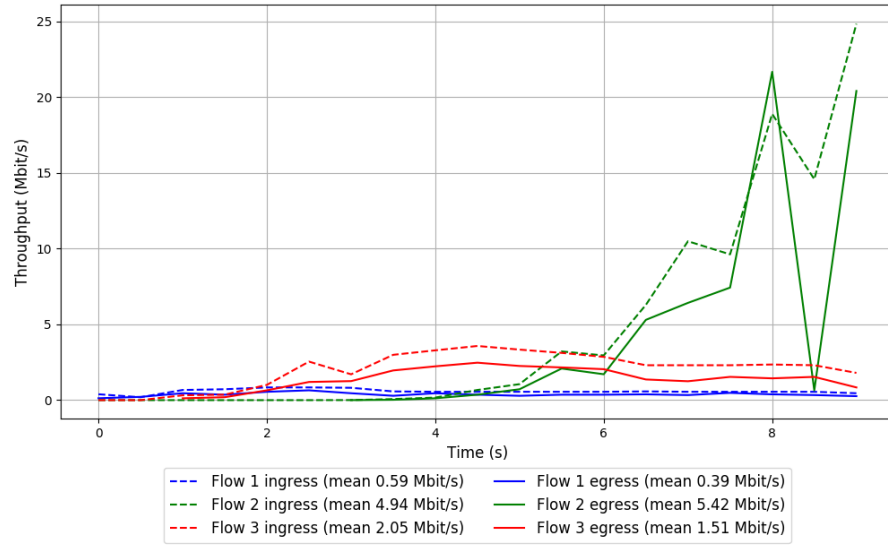
Start at: 2017-12-01 08:25:59

End at: 2017-12-01 08:26:29

Local clock offset: 4.001 ms

Remote clock offset: 1.319 ms

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-01 08:43:30

End at: 2017-12-01 08:44:00

Local clock offset: 3.546 ms

Remote clock offset: 0.825 ms

Below is generated by plot.py at 2017-12-01 13:27:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.48 Mbit/s

95th percentile per-packet one-way delay: 187.019 ms

Loss rate: 7.08%

-- Flow 1:

Average throughput: 37.69 Mbit/s

95th percentile per-packet one-way delay: 174.779 ms

Loss rate: 4.55%

-- Flow 2:

Average throughput: 28.31 Mbit/s

95th percentile per-packet one-way delay: 189.561 ms

Loss rate: 8.74%

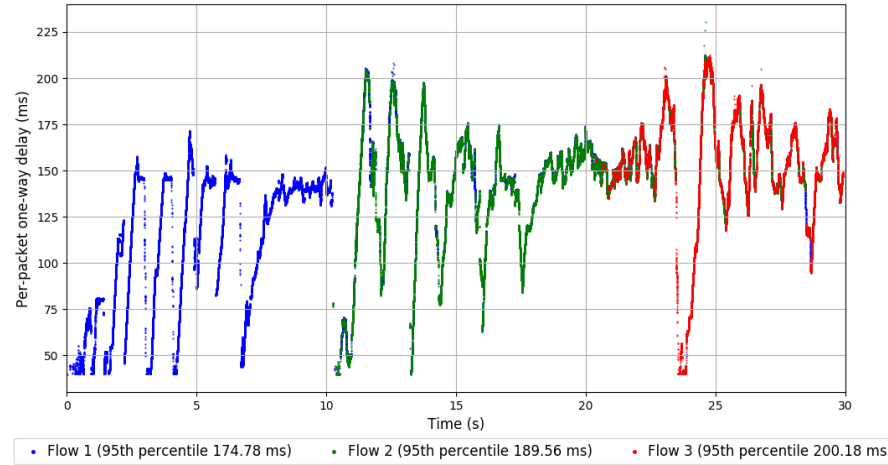
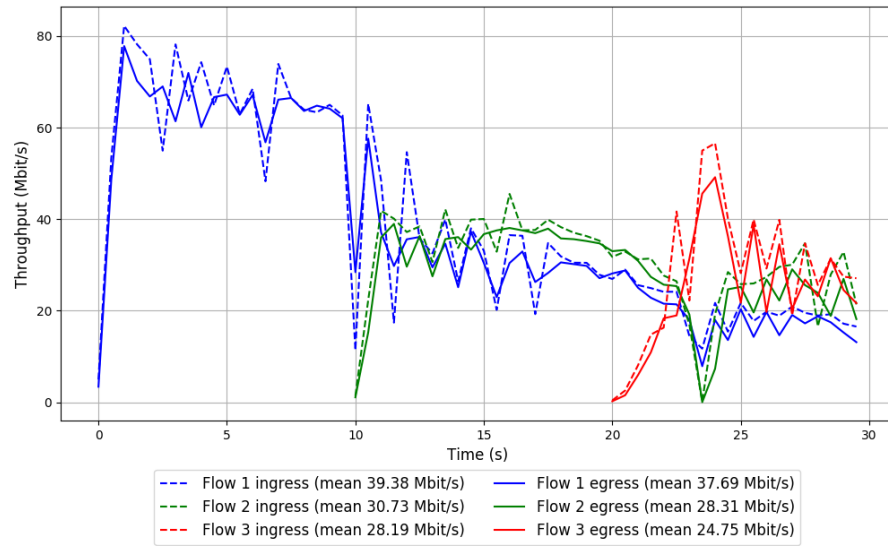
-- Flow 3:

Average throughput: 24.75 Mbit/s

95th percentile per-packet one-way delay: 200.183 ms

Loss rate: 14.11%

Run 5: Report of TCP BBR — Data Link

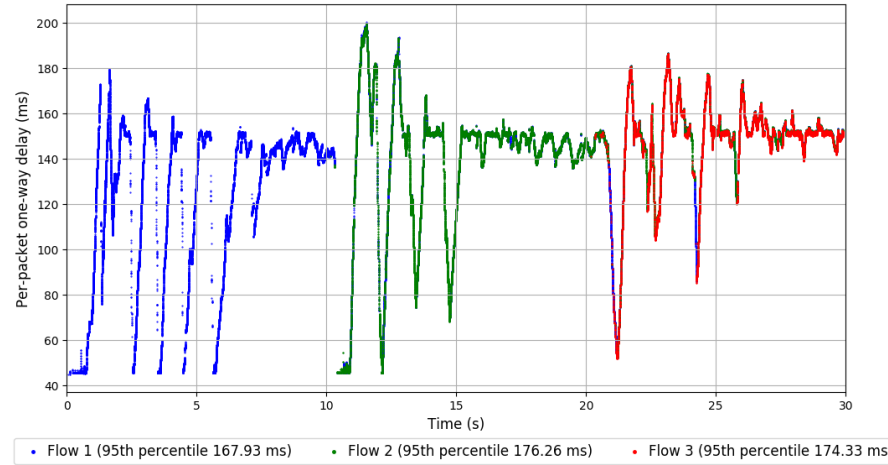
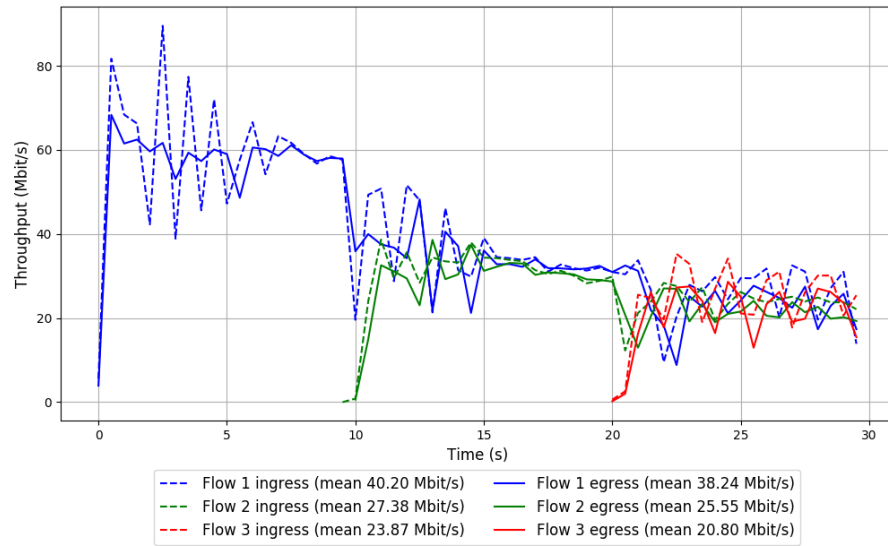


Run 6: Statistics of TCP BBR

Start at: 2017-12-01 09:00:55
End at: 2017-12-01 09:01:25
Local clock offset: 3.509 ms
Remote clock offset: -5.274 ms

Below is generated by plot.py at 2017-12-01 13:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.93 Mbit/s
95th percentile per-packet one-way delay: 172.556 ms
Loss rate: 6.93%
-- Flow 1:
Average throughput: 38.24 Mbit/s
95th percentile per-packet one-way delay: 167.927 ms
Loss rate: 5.18%
-- Flow 2:
Average throughput: 25.55 Mbit/s
95th percentile per-packet one-way delay: 176.257 ms
Loss rate: 7.52%
-- Flow 3:
Average throughput: 20.80 Mbit/s
95th percentile per-packet one-way delay: 174.327 ms
Loss rate: 14.45%

Run 6: Report of TCP BBR — Data Link

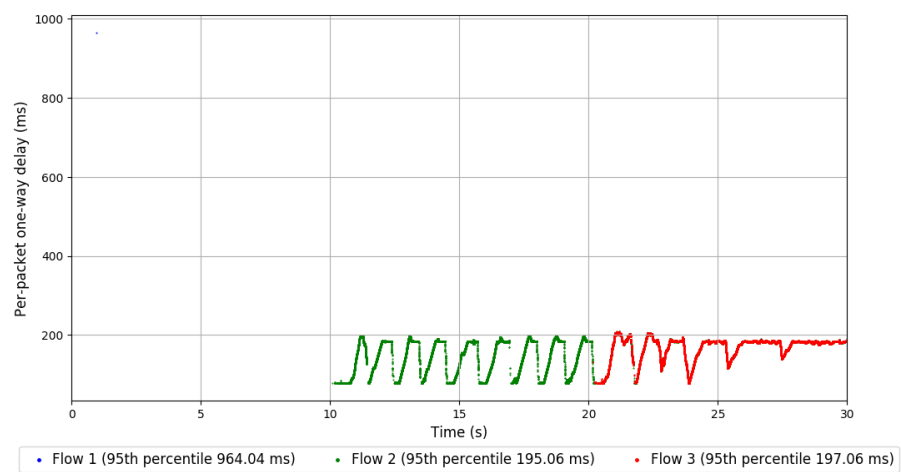
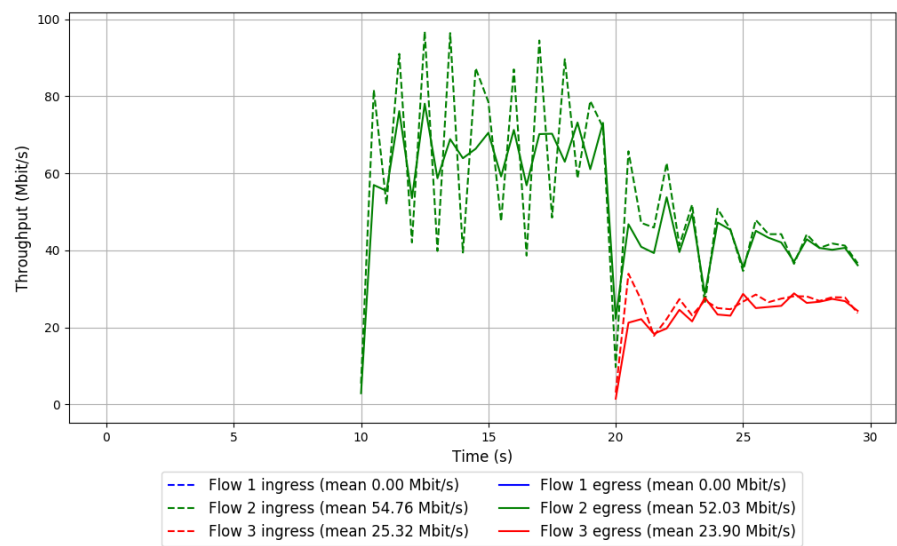


Run 7: Statistics of TCP BBR

Start at: 2017-12-01 09:18:29
End at: 2017-12-01 09:18:59
Local clock offset: 3.197 ms
Remote clock offset: -39.987 ms

Below is generated by plot.py at 2017-12-01 13:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 195.146 ms
Loss rate: 5.68%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 964.042 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 195.056 ms
Loss rate: 5.39%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 197.057 ms
Loss rate: 6.91%

Run 7: Report of TCP BBR — Data Link

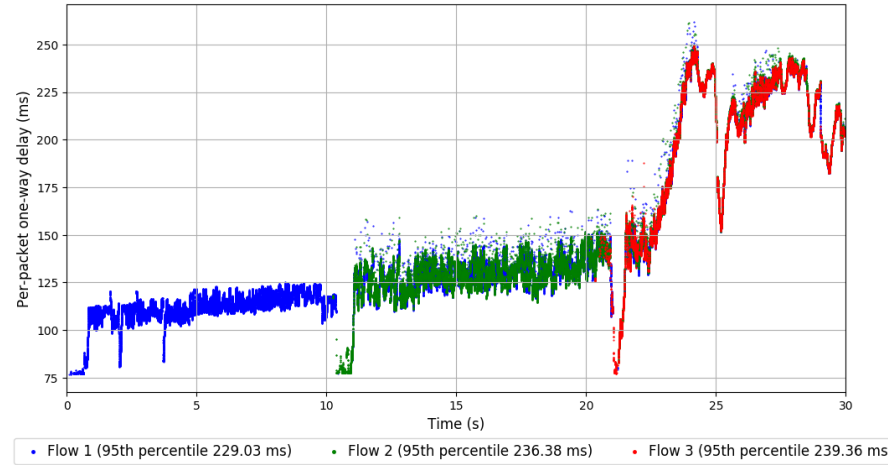
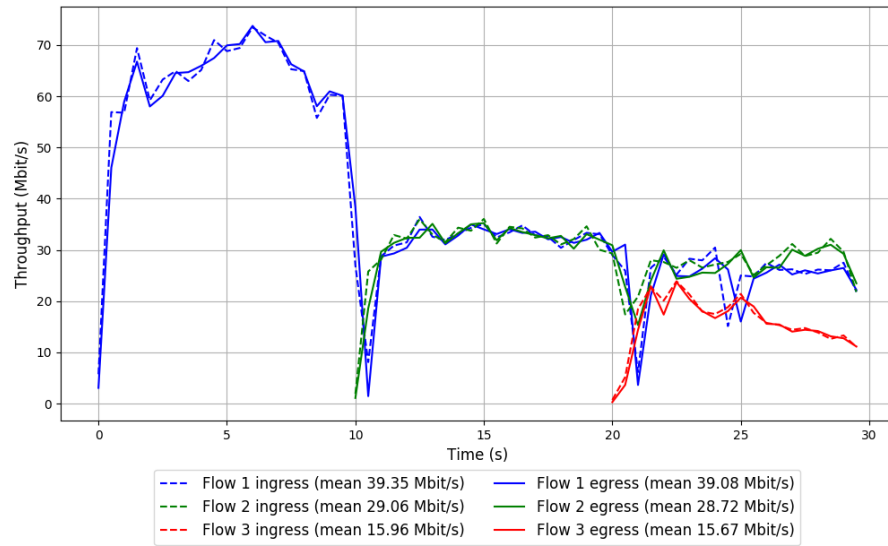


Run 8: Statistics of TCP BBR

Start at: 2017-12-01 09:38:49
End at: 2017-12-01 09:39:19
Local clock offset: 2.809 ms
Remote clock offset: -39.259 ms

Below is generated by plot.py at 2017-12-01 13:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 234.908 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 39.08 Mbit/s
95th percentile per-packet one-way delay: 229.027 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 236.384 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 239.362 ms
Loss rate: 3.48%

Run 8: Report of TCP BBR — Data Link

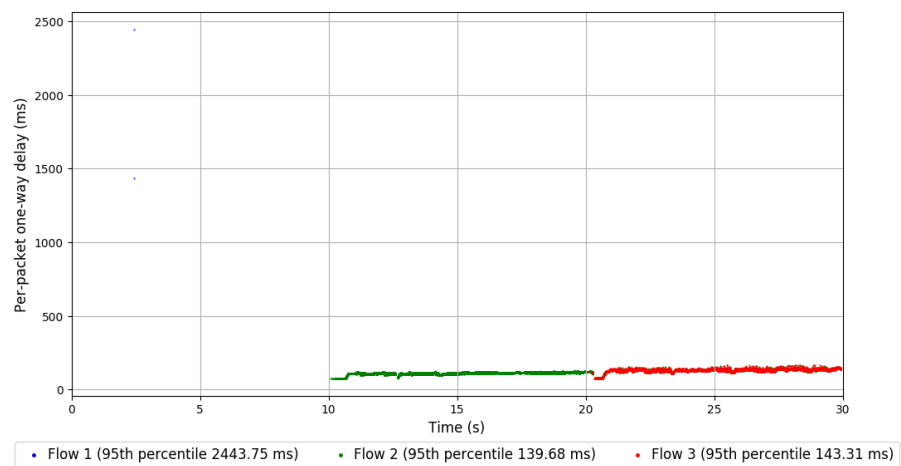
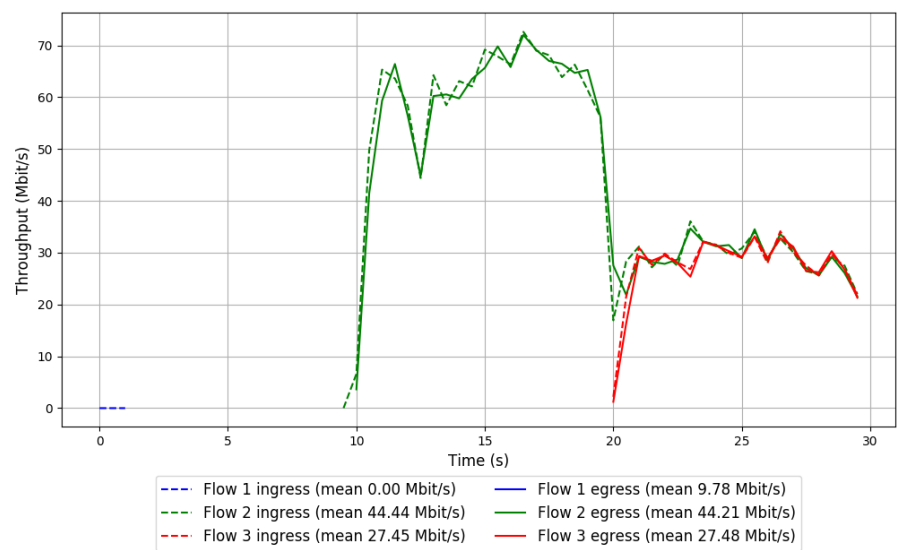


Run 9: Statistics of TCP BBR

Start at: 2017-12-01 09:56:00
End at: 2017-12-01 09:56:30
Local clock offset: 3.023 ms
Remote clock offset: -36.573 ms

Below is generated by plot.py at 2017-12-01 13:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.76 Mbit/s
95th percentile per-packet one-way delay: 141.667 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 2443.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.21 Mbit/s
95th percentile per-packet one-way delay: 139.680 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 27.48 Mbit/s
95th percentile per-packet one-way delay: 143.312 ms
Loss rate: 1.49%

Run 9: Report of TCP BBR — Data Link

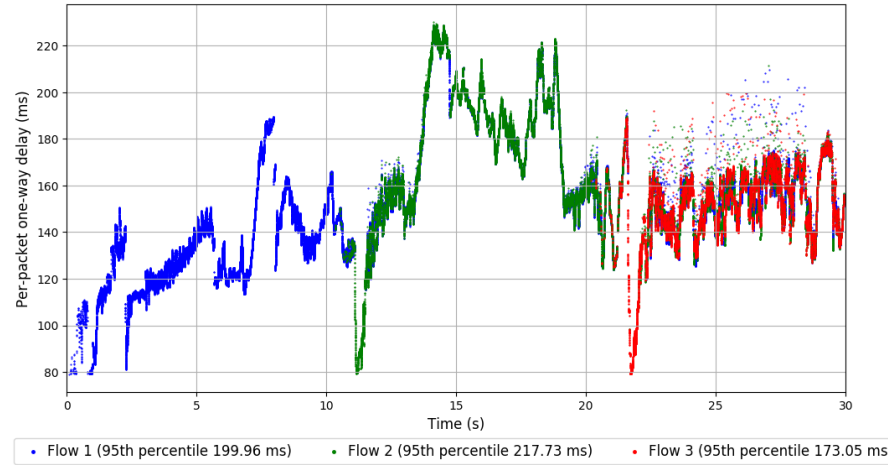
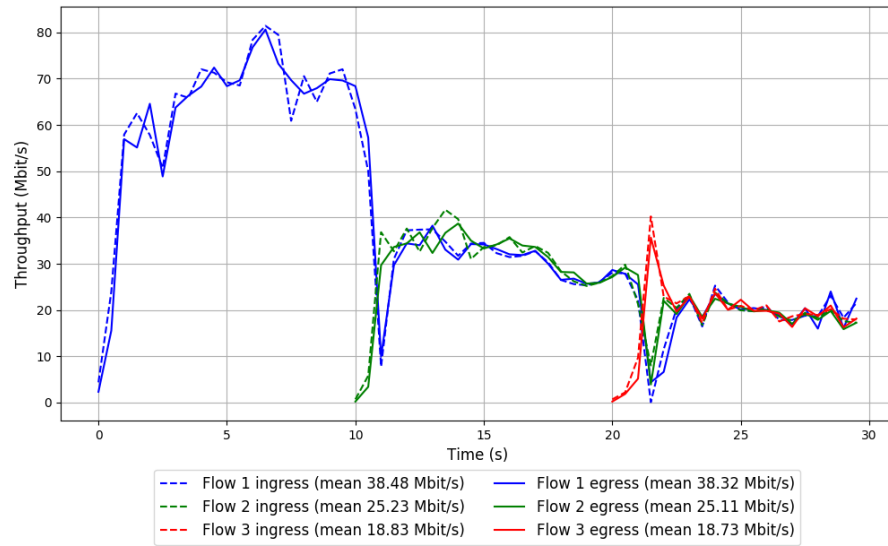


Run 10: Statistics of TCP BBR

Start at: 2017-12-01 10:13:20
End at: 2017-12-01 10:13:50
Local clock offset: 3.03 ms
Remote clock offset: -39.161 ms

Below is generated by plot.py at 2017-12-01 13:27:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.04 Mbit/s
95th percentile per-packet one-way delay: 204.140 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 38.32 Mbit/s
95th percentile per-packet one-way delay: 199.962 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 217.730 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 173.052 ms
Loss rate: 2.66%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-01 07:24:10

End at: 2017-12-01 07:24:40

Local clock offset: 3.115 ms

Remote clock offset: -9.55 ms

Below is generated by plot.py at 2017-12-01 13:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 147.336 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 43.84 Mbit/s

95th percentile per-packet one-way delay: 144.939 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 20.41 Mbit/s

95th percentile per-packet one-way delay: 149.984 ms

Loss rate: 0.86%

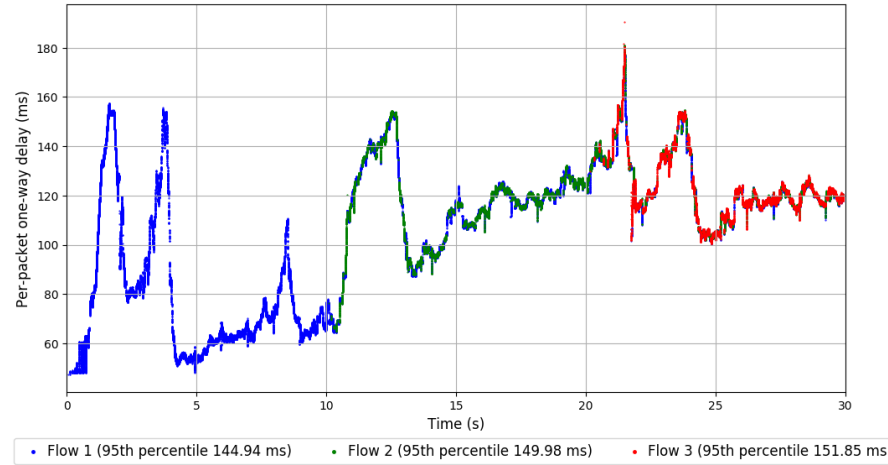
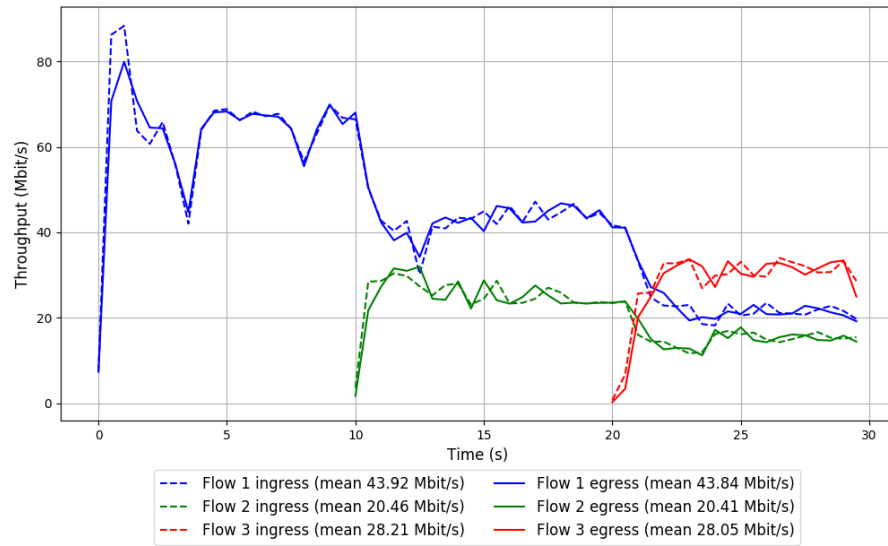
-- Flow 3:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 151.851 ms

Loss rate: 2.24%

Run 1: Report of TCP Cubic — Data Link

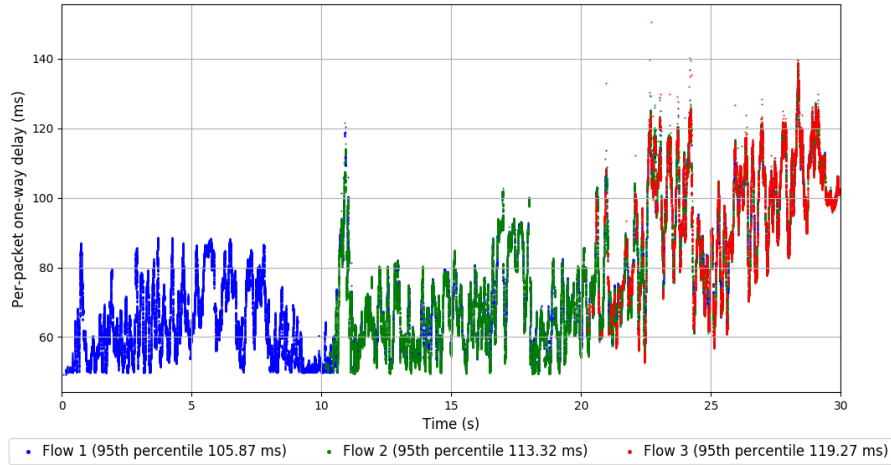
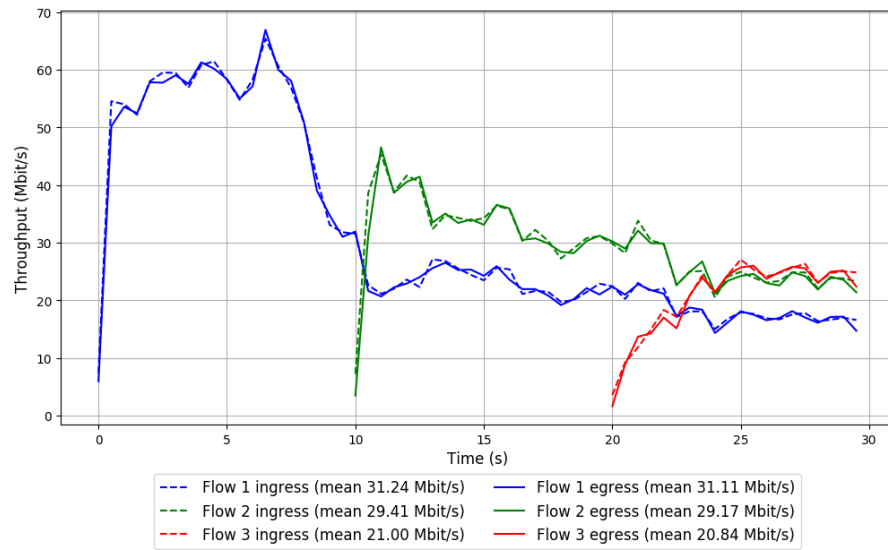


Run 2: Statistics of TCP Cubic

Start at: 2017-12-01 07:41:55
End at: 2017-12-01 07:42:25
Local clock offset: 3.902 ms
Remote clock offset: -9.772 ms

Below is generated by plot.py at 2017-12-01 13:27:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.34 Mbit/s
95th percentile per-packet one-way delay: 112.561 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 105.874 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 113.318 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 20.84 Mbit/s
95th percentile per-packet one-way delay: 119.268 ms
Loss rate: 2.01%

Run 2: Report of TCP Cubic — Data Link

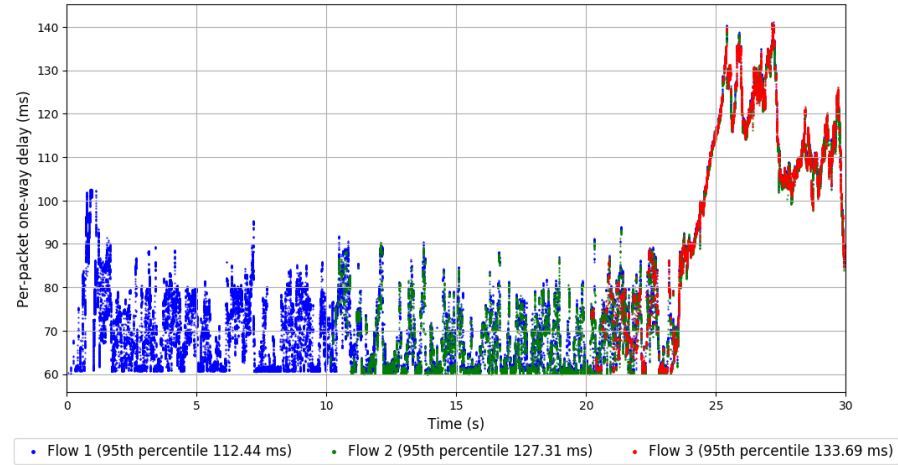
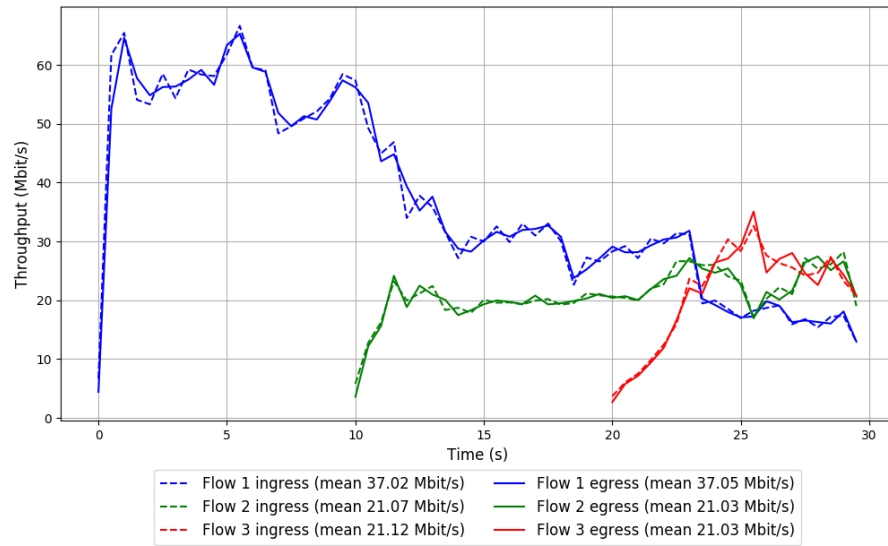


Run 3: Statistics of TCP Cubic

Start at: 2017-12-01 08:05:04
End at: 2017-12-01 08:05:34
Local clock offset: 4.589 ms
Remote clock offset: -19.861 ms

Below is generated by plot.py at 2017-12-01 13:28:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 124.830 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 112.443 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 127.310 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 133.687 ms
Loss rate: 1.30%

Run 3: Report of TCP Cubic — Data Link

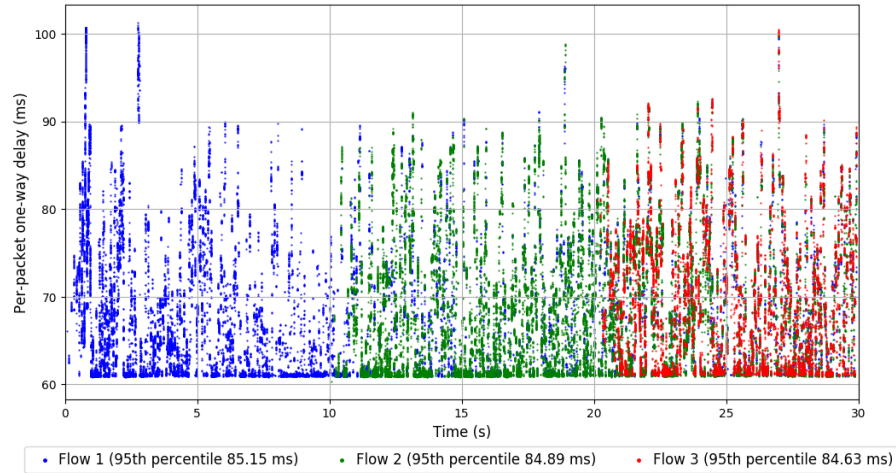
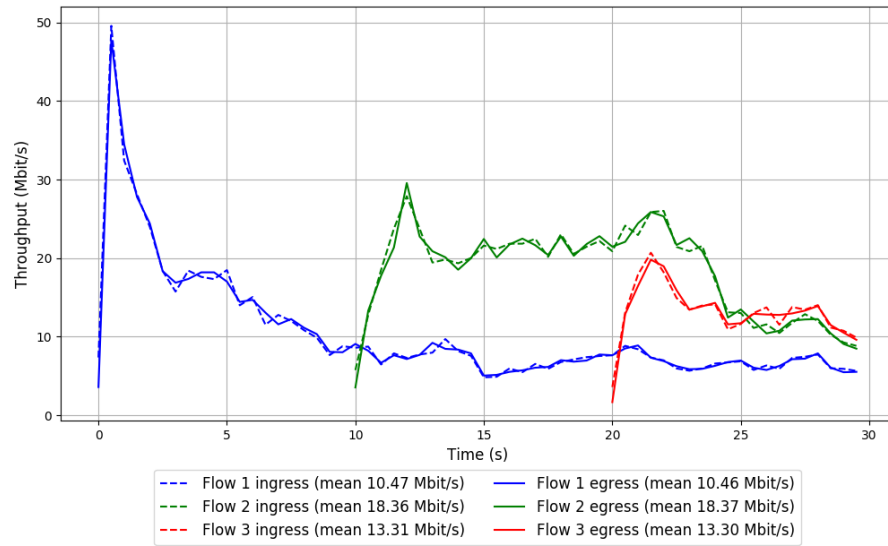


Run 4: Statistics of TCP Cubic

Start at: 2017-12-01 08:22:39
End at: 2017-12-01 08:23:09
Local clock offset: 4.2 ms
Remote clock offset: -20.083 ms

Below is generated by plot.py at 2017-12-01 13:28:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 84.893 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 85.151 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 18.37 Mbit/s
95th percentile per-packet one-way delay: 84.895 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 13.30 Mbit/s
95th percentile per-packet one-way delay: 84.630 ms
Loss rate: 1.10%

Run 4: Report of TCP Cubic — Data Link

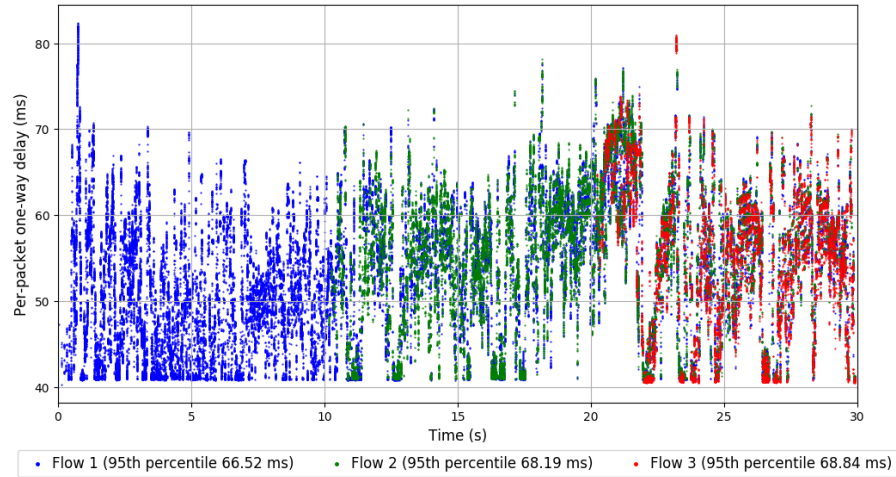
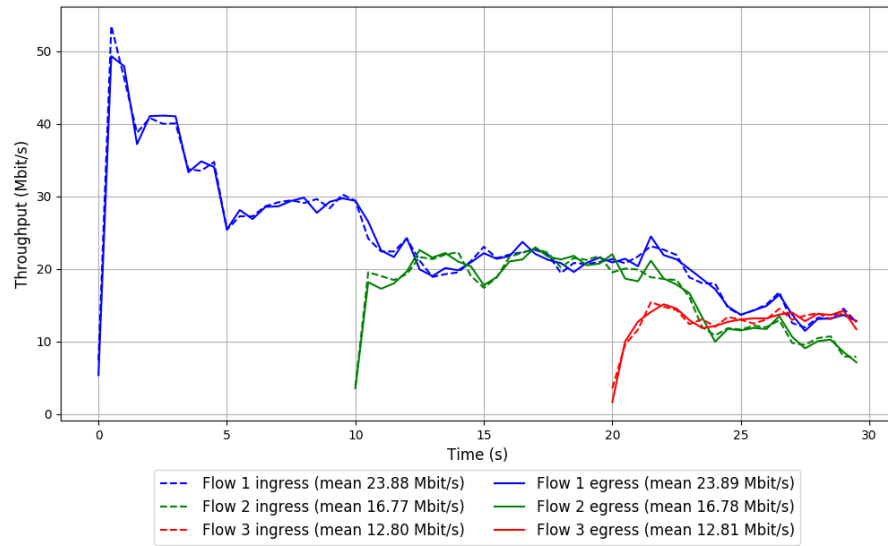


Run 5: Statistics of TCP Cubic

Start at: 2017-12-01 08:41:00
End at: 2017-12-01 08:41:30
Local clock offset: 3.623 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2017-12-01 13:28:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 67.482 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 66.521 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 16.78 Mbit/s
95th percentile per-packet one-way delay: 68.194 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 68.842 ms
Loss rate: 0.95%

Run 5: Report of TCP Cubic — Data Link

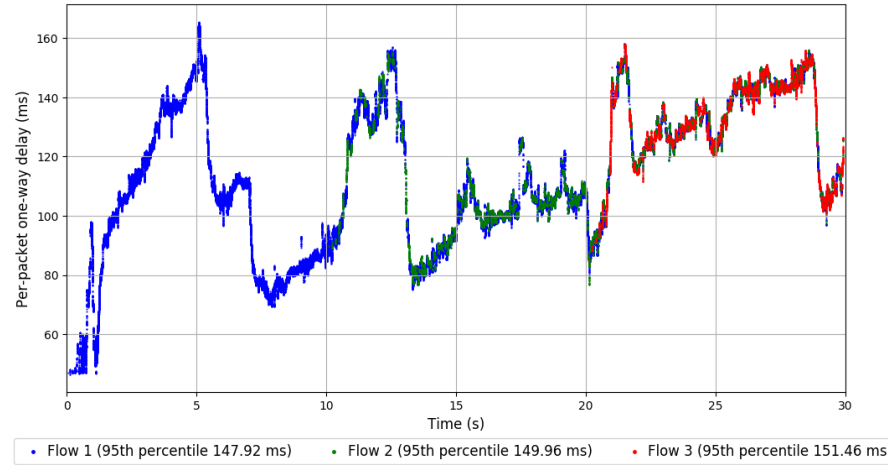
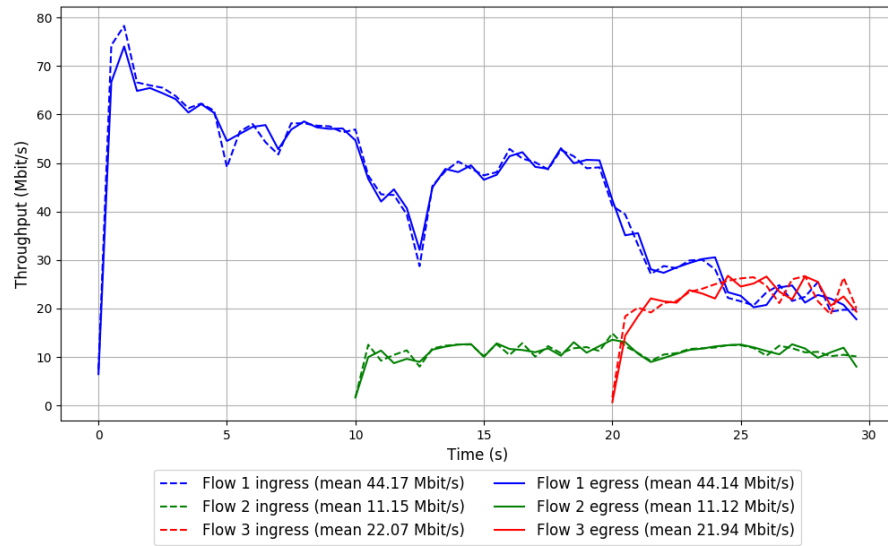


Run 6: Statistics of TCP Cubic

Start at: 2017-12-01 08:58:26
End at: 2017-12-01 08:58:56
Local clock offset: 3.554 ms
Remote clock offset: -6.446 ms

Below is generated by plot.py at 2017-12-01 13:28:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.67 Mbit/s
95th percentile per-packet one-way delay: 149.103 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 44.14 Mbit/s
95th percentile per-packet one-way delay: 147.921 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 149.958 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 151.455 ms
Loss rate: 1.85%

Run 6: Report of TCP Cubic — Data Link

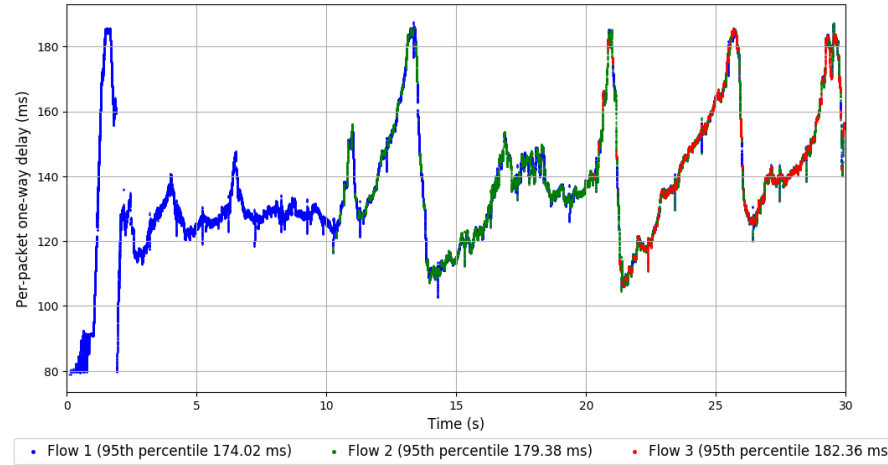
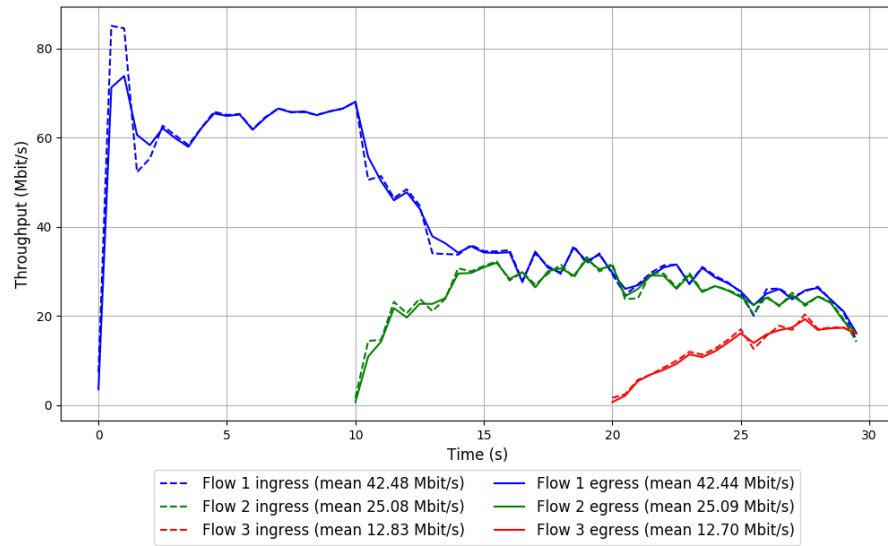


Run 7: Statistics of TCP Cubic

Start at: 2017-12-01 09:16:00
End at: 2017-12-01 09:16:30
Local clock offset: 2.983 ms
Remote clock offset: -40.385 ms

Below is generated by plot.py at 2017-12-01 13:28:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.22 Mbit/s
95th percentile per-packet one-way delay: 178.194 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 174.018 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 179.384 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 182.362 ms
Loss rate: 2.45%

Run 7: Report of TCP Cubic — Data Link

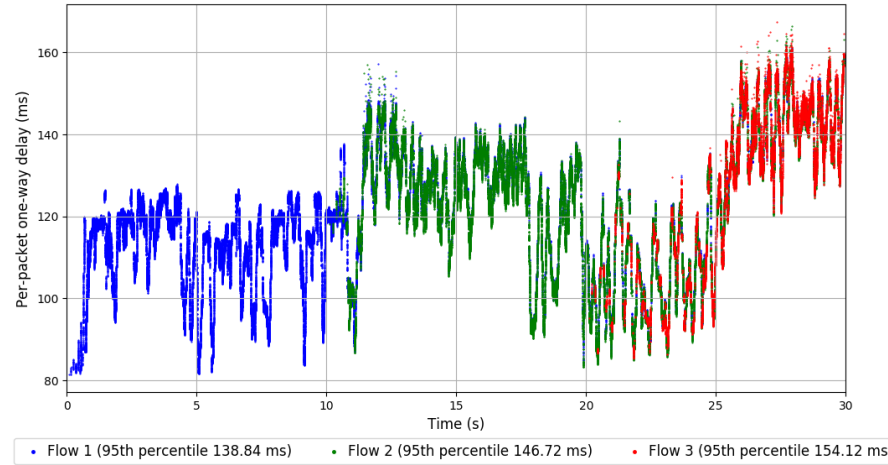
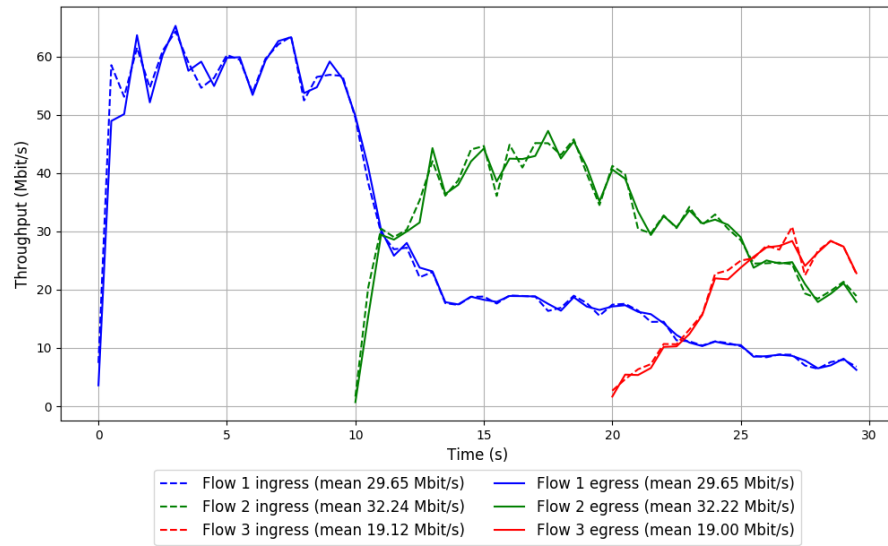


Run 8: Statistics of TCP Cubic

Start at: 2017-12-01 09:36:20
End at: 2017-12-01 09:36:50
Local clock offset: 2.84 ms
Remote clock offset: -43.011 ms

Below is generated by plot.py at 2017-12-01 13:28:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.27 Mbit/s
95th percentile per-packet one-way delay: 146.503 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: 138.839 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 32.22 Mbit/s
95th percentile per-packet one-way delay: 146.717 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 19.00 Mbit/s
95th percentile per-packet one-way delay: 154.123 ms
Loss rate: 1.98%

Run 8: Report of TCP Cubic — Data Link

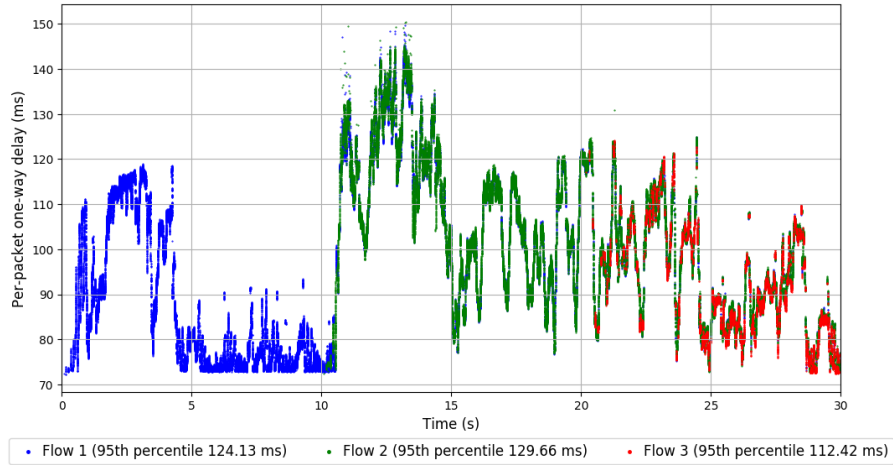
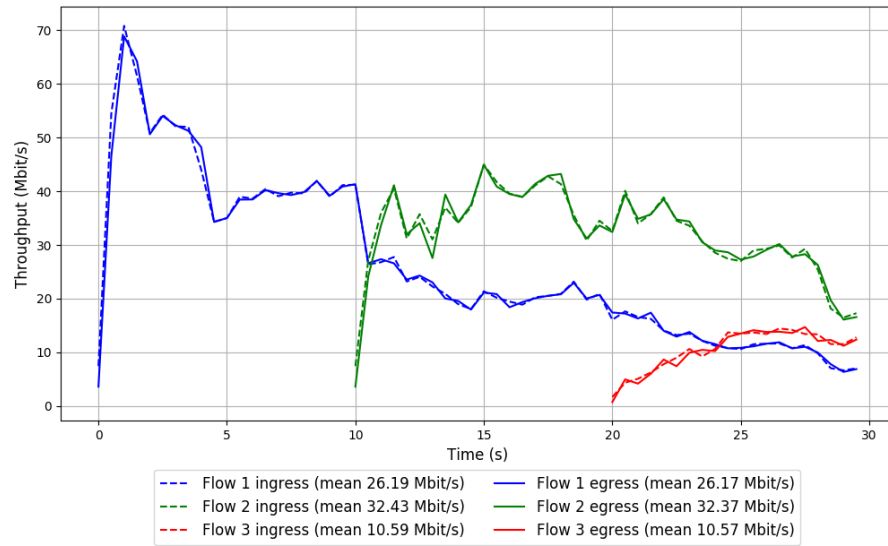


Run 9: Statistics of TCP Cubic

Start at: 2017-12-01 09:53:33
End at: 2017-12-01 09:54:03
Local clock offset: 2.927 ms
Remote clock offset: -33.532 ms

Below is generated by plot.py at 2017-12-01 13:28:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.15 Mbit/s
95th percentile per-packet one-way delay: 126.078 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 26.17 Mbit/s
95th percentile per-packet one-way delay: 124.134 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 32.37 Mbit/s
95th percentile per-packet one-way delay: 129.663 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 10.57 Mbit/s
95th percentile per-packet one-way delay: 112.424 ms
Loss rate: 1.50%

Run 9: Report of TCP Cubic — Data Link

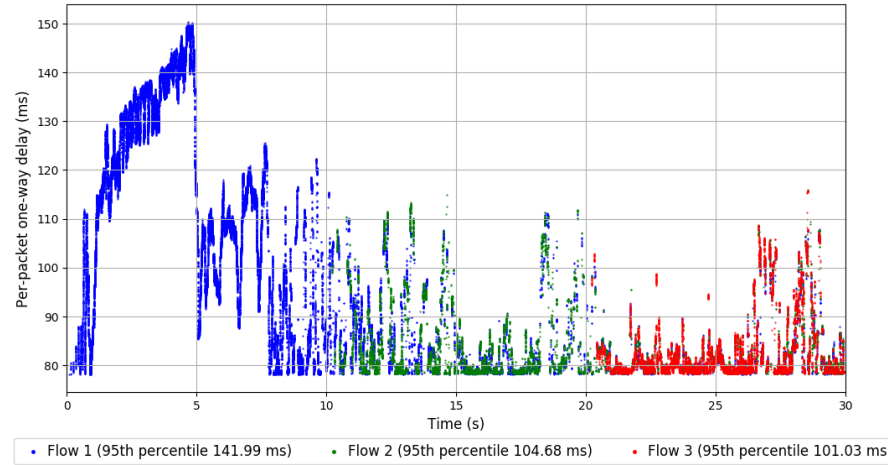
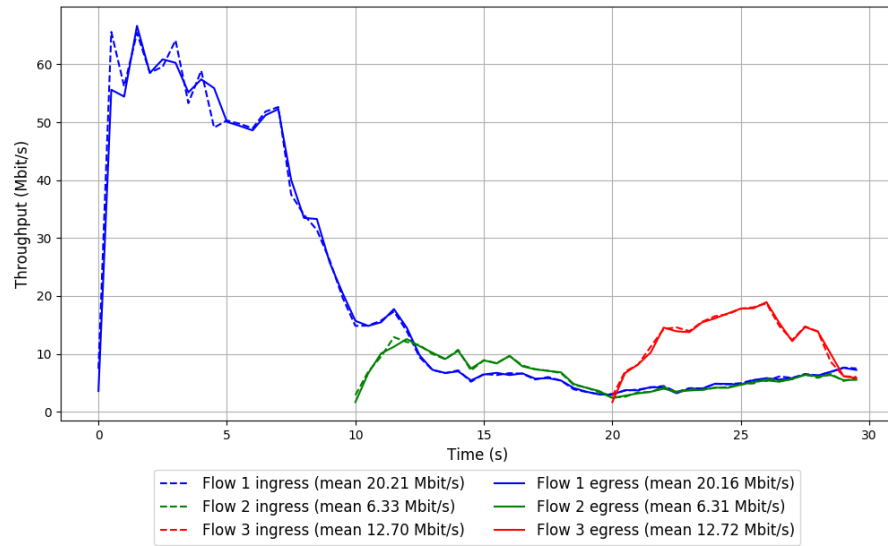


Run 10: Statistics of TCP Cubic

Start at: 2017-12-01 10:10:53
End at: 2017-12-01 10:11:23
Local clock offset: 2.998 ms
Remote clock offset: -38.13 ms

Below is generated by plot.py at 2017-12-01 13:28:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 140.537 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 141.994 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 104.680 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 101.032 ms
Loss rate: 0.70%

Run 10: Report of TCP Cubic — Data Link

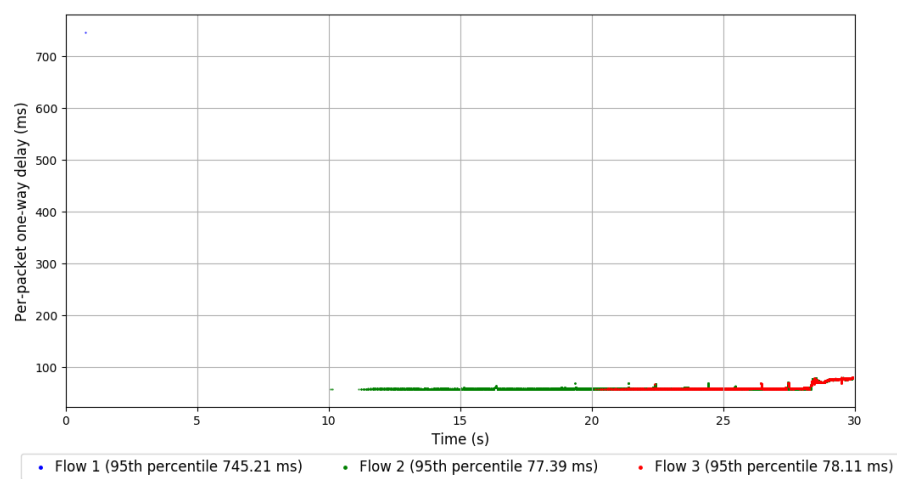
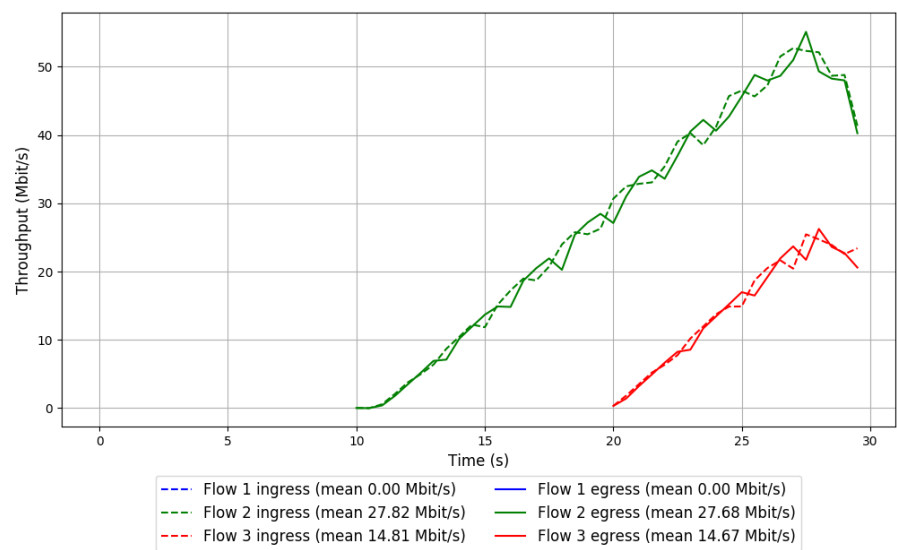


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-01 07:29:21
End at: 2017-12-01 07:29:51
Local clock offset: 3.53 ms
Remote clock offset: -19.002 ms

# Below is generated by plot.py at 2017-12-01 13:28:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 77.562 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 745.212 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.68 Mbit/s
95th percentile per-packet one-way delay: 77.395 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 78.107 ms
Loss rate: 1.77%
```


Run 1: Report of LEDBAT — Data Link

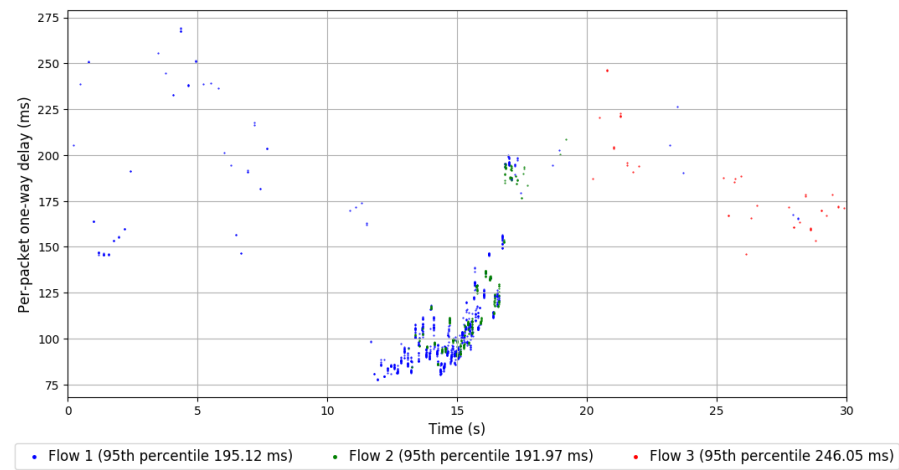
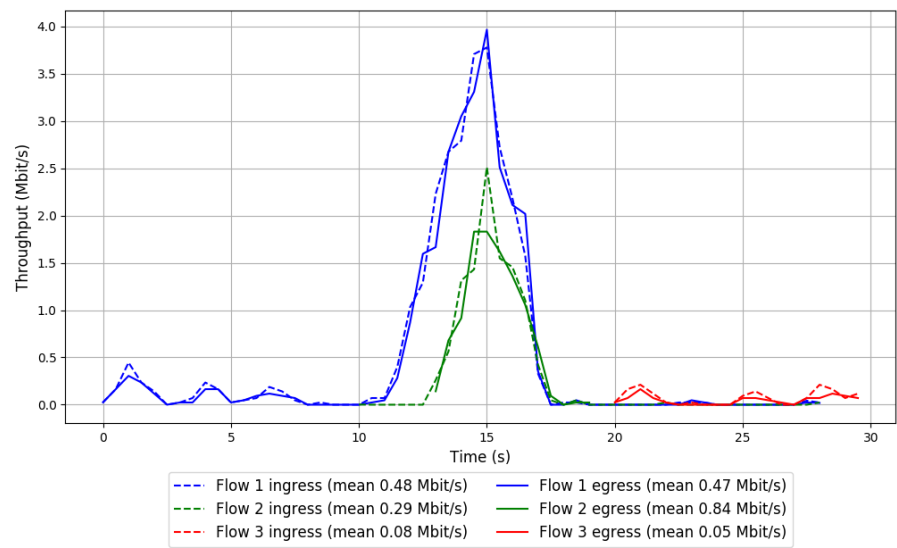


Run 2: Statistics of LEDBAT

Start at: 2017-12-01 07:48:14
End at: 2017-12-01 07:48:44
Local clock offset: 4.088 ms
Remote clock offset: -1.272 ms

Below is generated by plot.py at 2017-12-01 13:28:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 194.570 ms
Loss rate: 4.72%
-- Flow 1:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 195.120 ms
Loss rate: 2.86%
-- Flow 2:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 191.968 ms
Loss rate: 5.25%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 246.050 ms
Loss rate: 34.34%

Run 2: Report of LEDBAT — Data Link

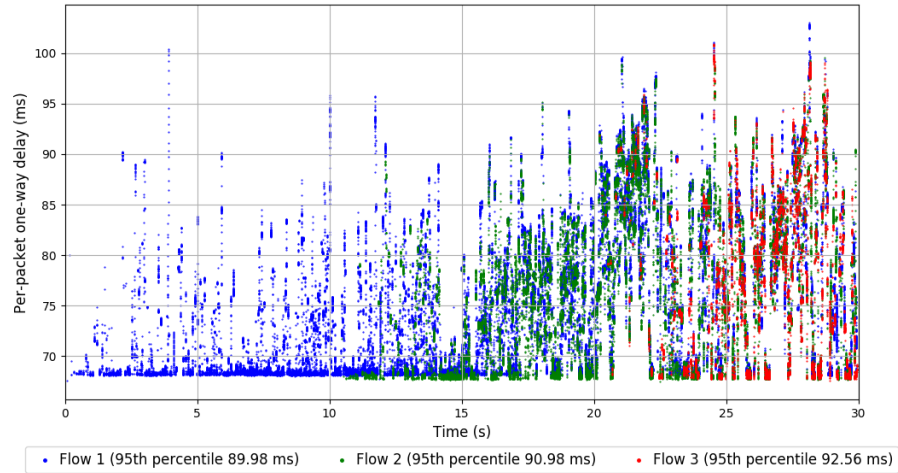
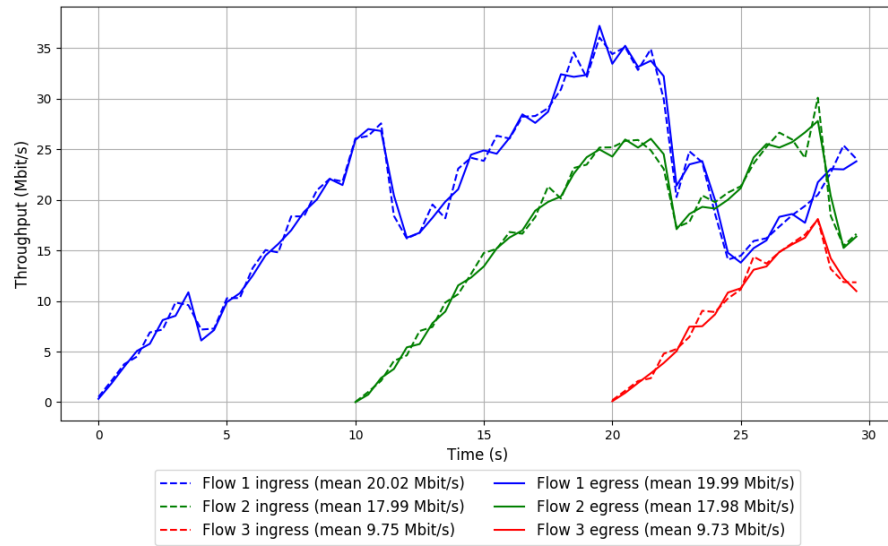


Run 3: Statistics of LEDBAT

Start at: 2017-12-01 08:10:06
End at: 2017-12-01 08:10:36
Local clock offset: 4.533 ms
Remote clock offset: -27.119 ms

Below is generated by plot.py at 2017-12-01 13:28:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 90.532 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 89.978 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 17.98 Mbit/s
95th percentile per-packet one-way delay: 90.979 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 92.560 ms
Loss rate: 1.31%

Run 3: Report of LEDBAT — Data Link

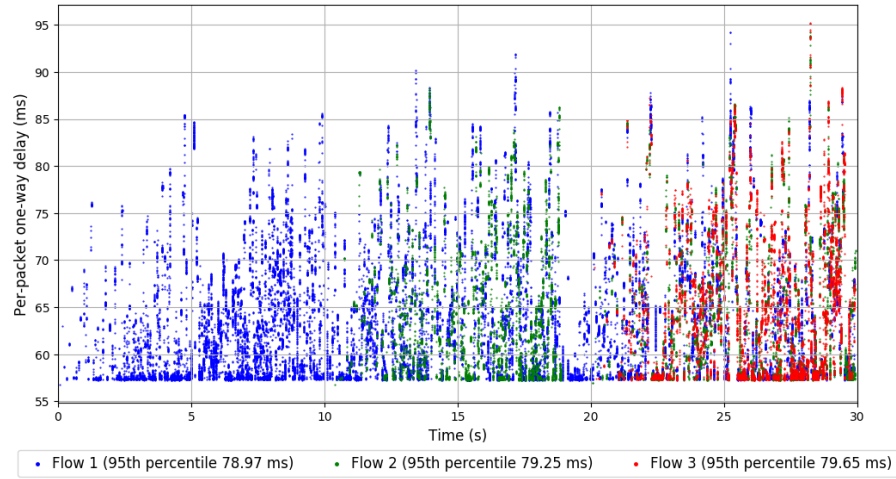
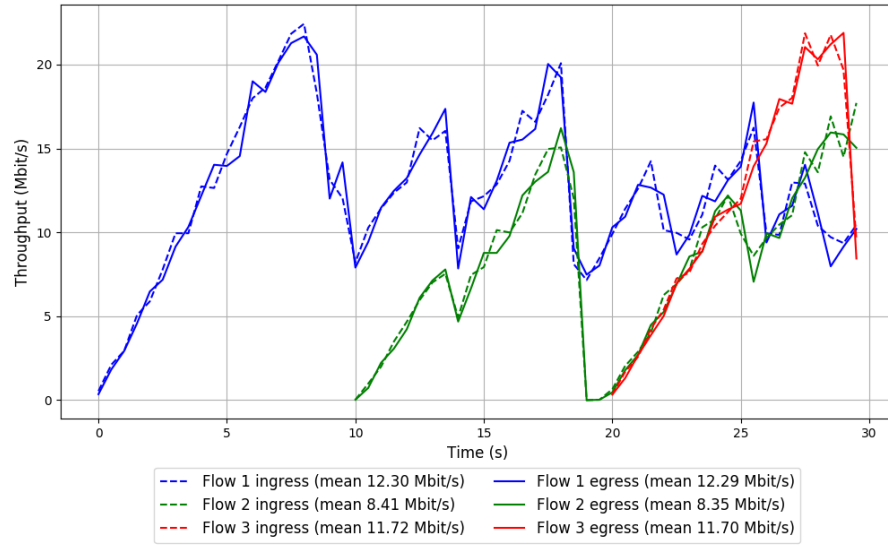


Run 4: Statistics of LEDBAT

Start at: 2017-12-01 08:28:30
End at: 2017-12-01 08:29:00
Local clock offset: 3.972 ms
Remote clock offset: -16.852 ms

Below is generated by plot.py at 2017-12-01 13:28:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.56 Mbit/s
95th percentile per-packet one-way delay: 79.284 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 12.29 Mbit/s
95th percentile per-packet one-way delay: 78.975 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 79.253 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 79.652 ms
Loss rate: 1.15%

Run 4: Report of LEDBAT — Data Link

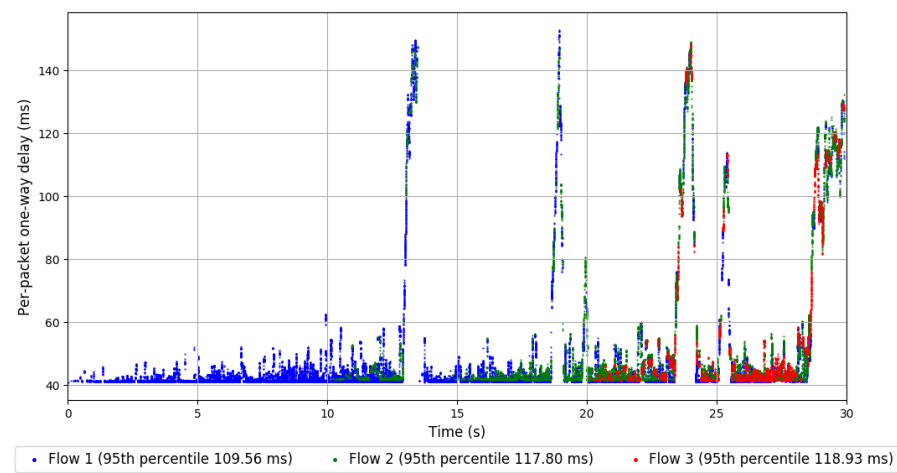
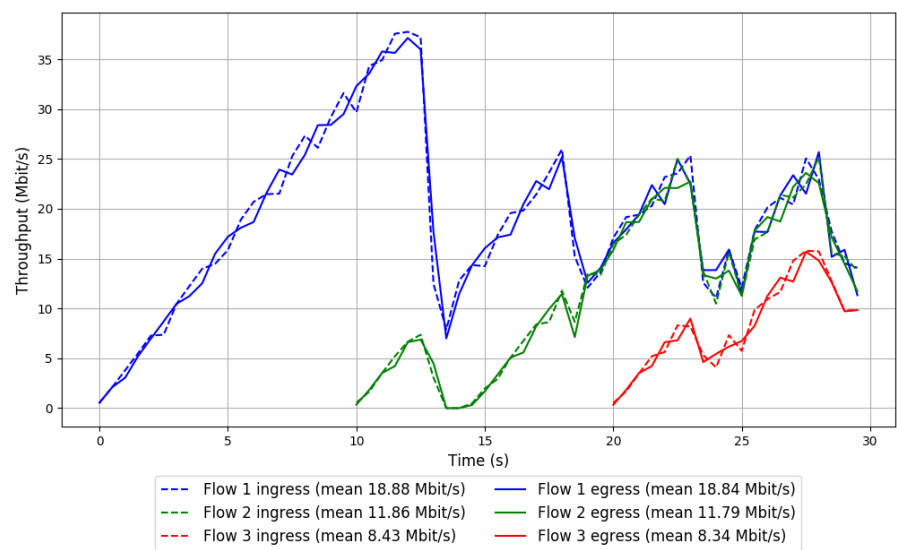


Run 5: Statistics of LEDBAT

Start at: 2017-12-01 08:46:07
End at: 2017-12-01 08:46:37
Local clock offset: 3.744 ms
Remote clock offset: -0.681 ms

Below is generated by plot.py at 2017-12-01 13:28:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.40 Mbit/s
95th percentile per-packet one-way delay: 114.347 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 18.84 Mbit/s
95th percentile per-packet one-way delay: 109.556 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 117.795 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 118.929 ms
Loss rate: 2.01%

Run 5: Report of LEDBAT — Data Link

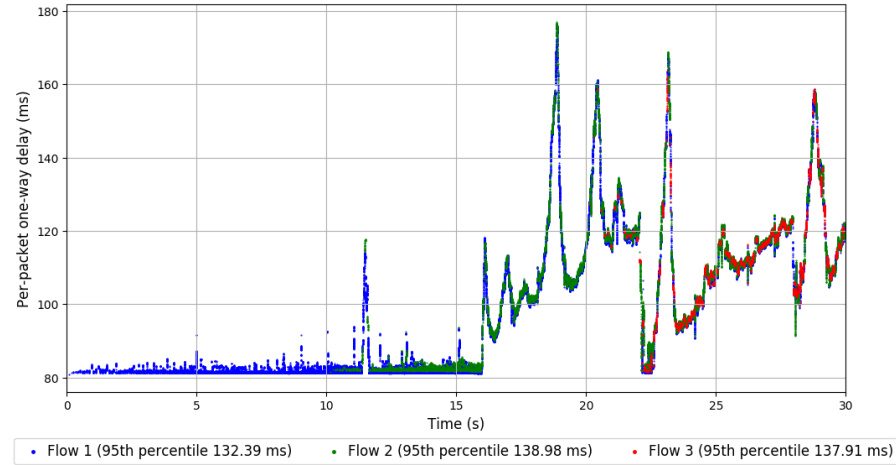
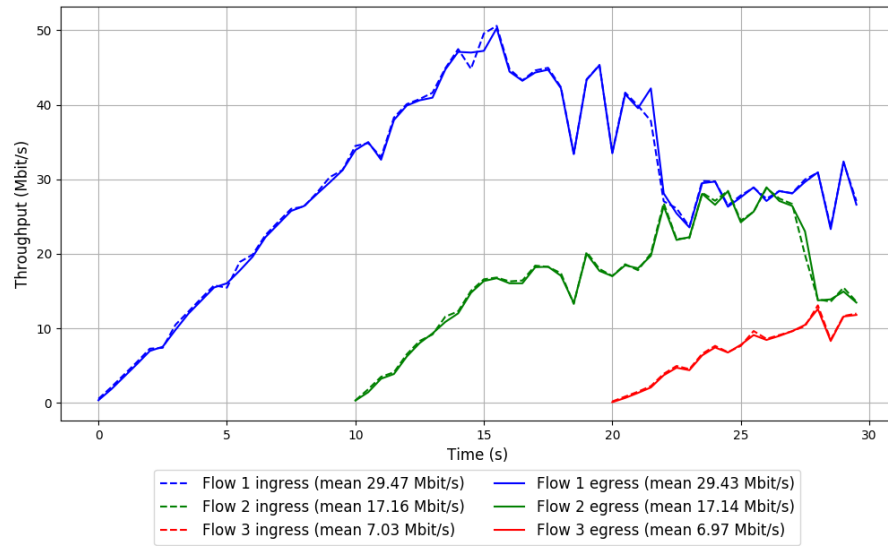


Run 6: Statistics of LEDBAT

Start at: 2017-12-01 09:03:33
End at: 2017-12-01 09:04:03
Local clock offset: 3.454 ms
Remote clock offset: -42.066 ms

Below is generated by plot.py at 2017-12-01 13:28:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.07 Mbit/s
95th percentile per-packet one-way delay: 134.383 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 29.43 Mbit/s
95th percentile per-packet one-way delay: 132.392 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 17.14 Mbit/s
95th percentile per-packet one-way delay: 138.981 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 137.912 ms
Loss rate: 2.21%

Run 6: Report of LEDBAT — Data Link

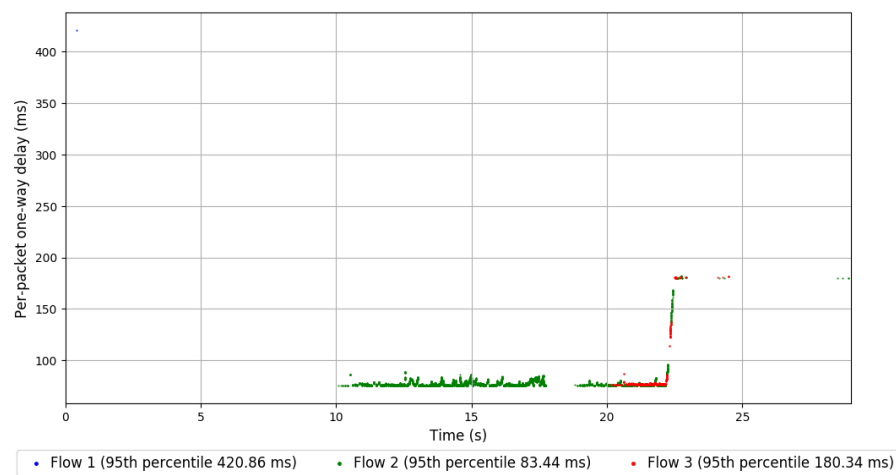
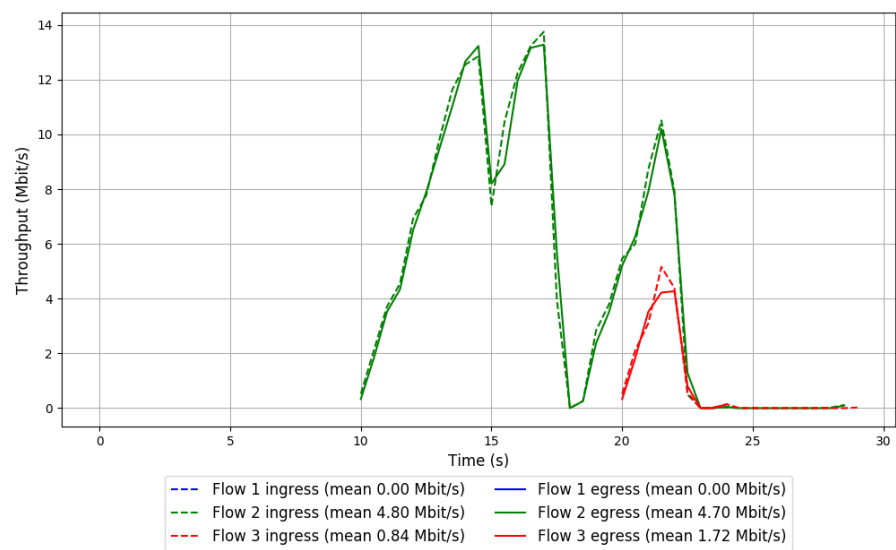


Run 7: Statistics of LEDBAT

Start at: 2017-12-01 09:20:58
End at: 2017-12-01 09:21:28
Local clock offset: 3.184 ms
Remote clock offset: -37.01 ms

Below is generated by plot.py at 2017-12-01 13:28:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 84.034 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 420.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 83.436 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 180.344 ms
Loss rate: 5.71%

Run 7: Report of LEDBAT — Data Link

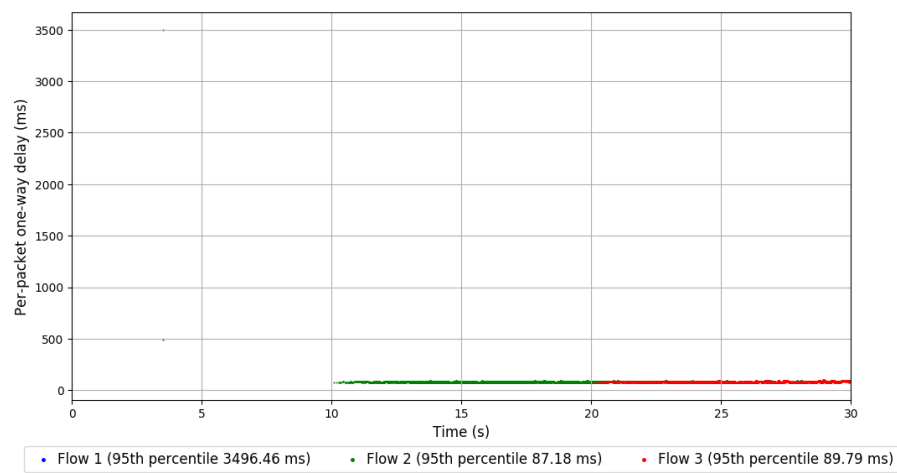
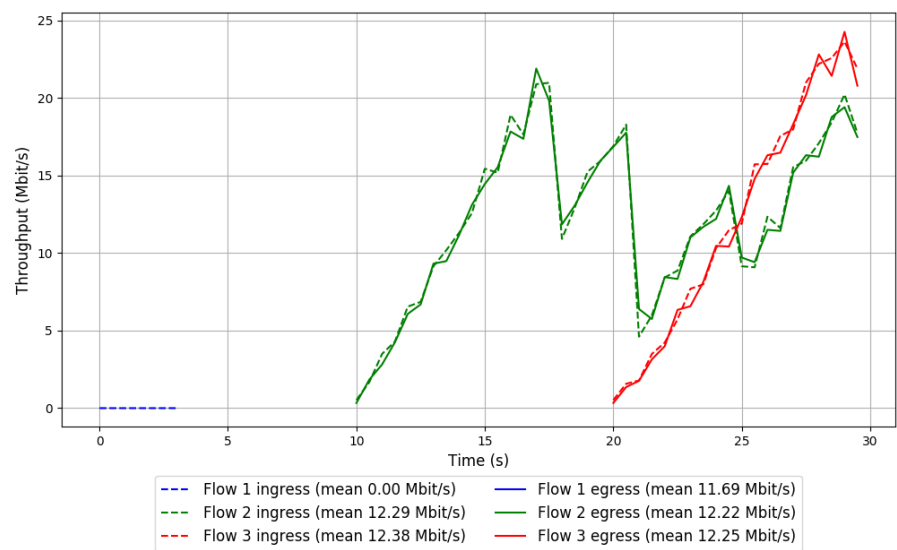


Run 8: Statistics of LEDBAT

Start at: 2017-12-01 09:41:21
End at: 2017-12-01 09:41:51
Local clock offset: 2.947 ms
Remote clock offset: -39.585 ms

Below is generated by plot.py at 2017-12-01 13:28:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.71 Mbit/s
95th percentile per-packet one-way delay: 88.797 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 3496.459 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 87.184 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 12.25 Mbit/s
95th percentile per-packet one-way delay: 89.791 ms
Loss rate: 1.97%

Run 8: Report of LEDBAT — Data Link

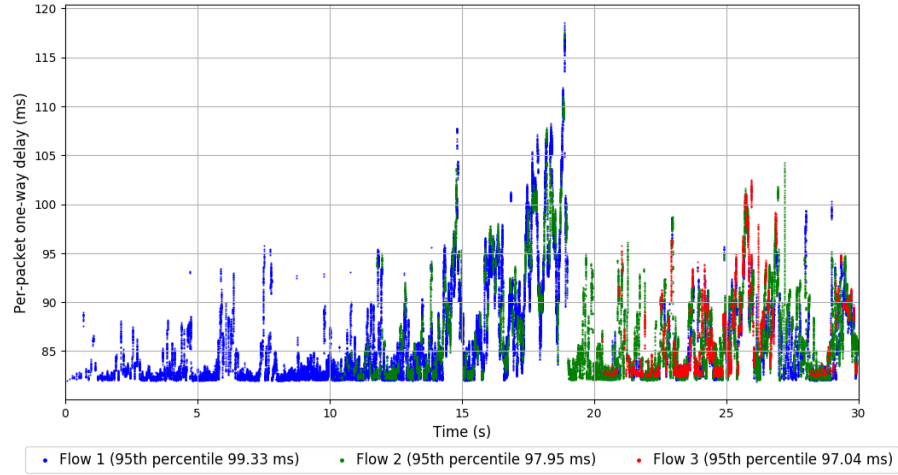
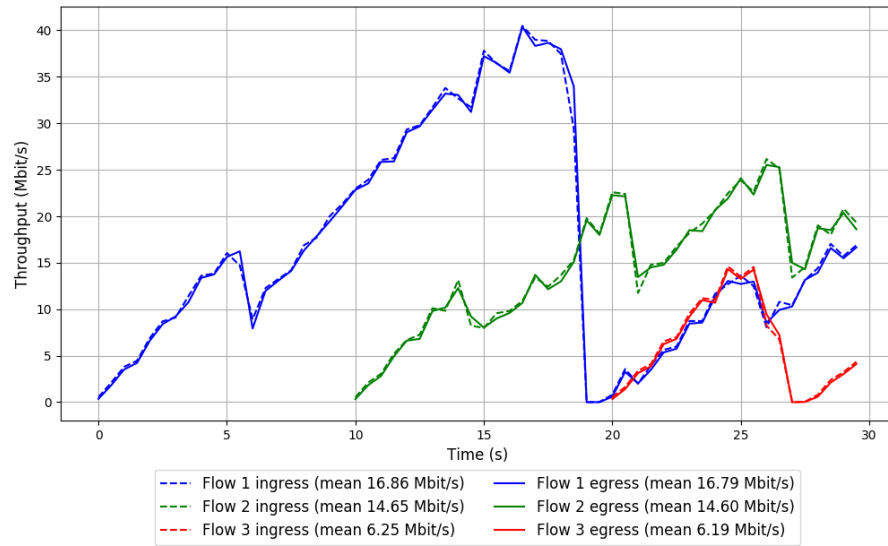


Run 9: Statistics of LEDBAT

Start at: 2017-12-01 09:58:29
End at: 2017-12-01 09:58:59
Local clock offset: 2.973 ms
Remote clock offset: -42.875 ms

Below is generated by plot.py at 2017-12-01 13:28:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.50 Mbit/s
95th percentile per-packet one-way delay: 98.516 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 16.79 Mbit/s
95th percentile per-packet one-way delay: 99.328 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 97.949 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 97.042 ms
Loss rate: 1.90%

Run 9: Report of LEDBAT — Data Link

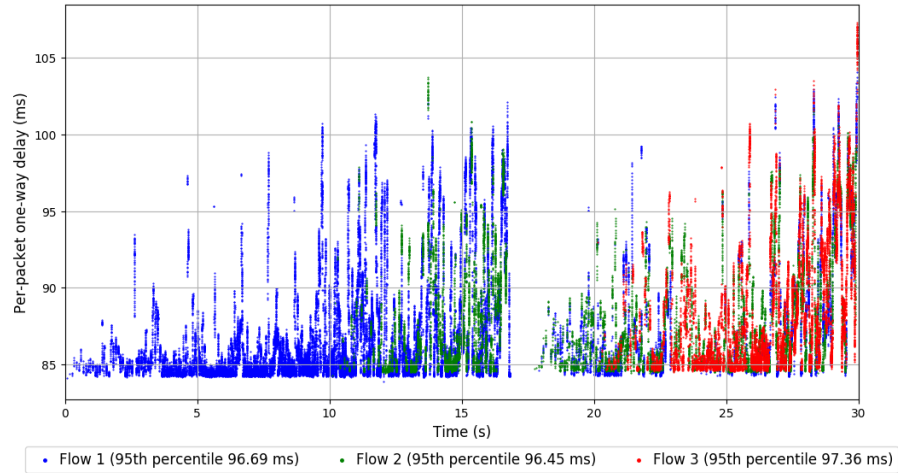
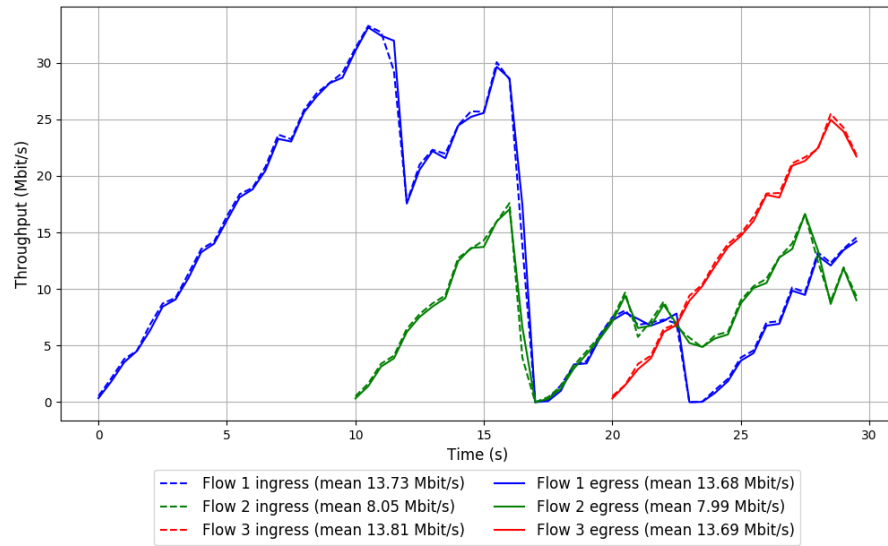


Run 10: Statistics of LEDBAT

Start at: 2017-12-01 10:15:52
End at: 2017-12-01 10:16:22
Local clock offset: 3.178 ms
Remote clock offset: -44.265 ms

Below is generated by plot.py at 2017-12-01 13:28:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 96.783 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 96.691 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 96.451 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 97.360 ms
Loss rate: 1.83%

Run 10: Report of LEDBAT — Data Link

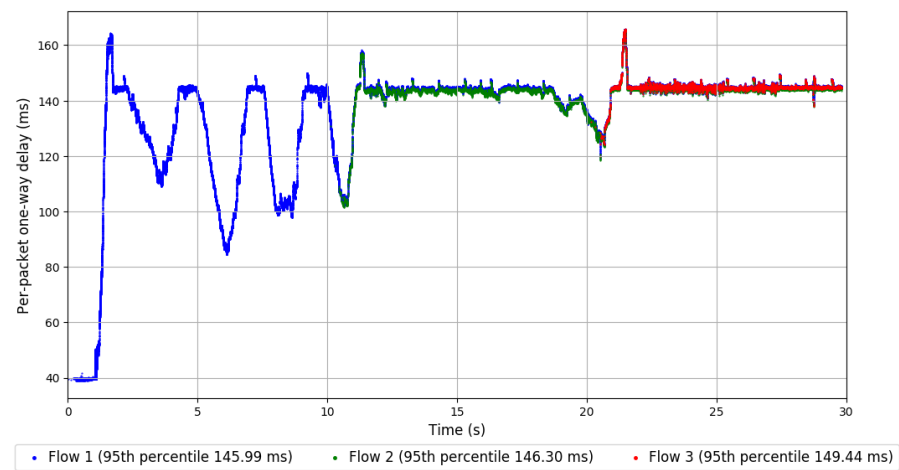
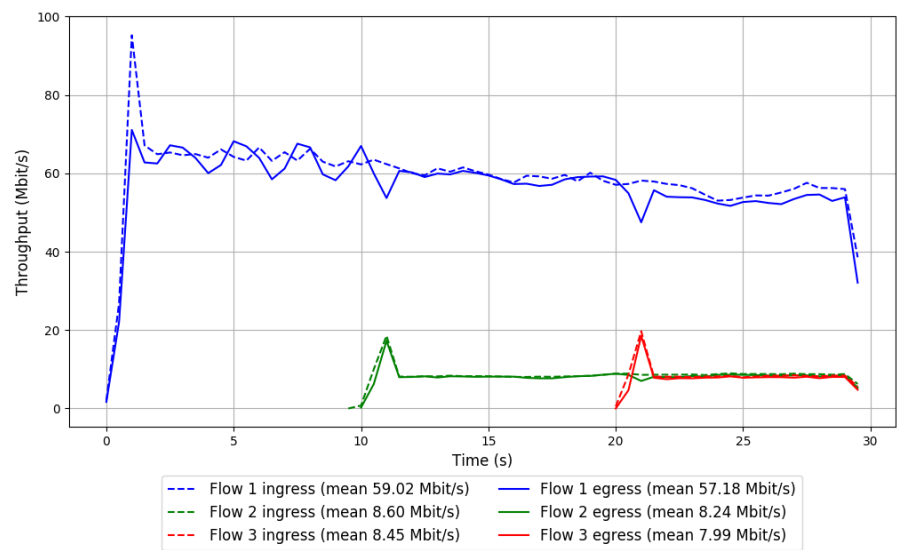


Run 1: Statistics of PCC

Start at: 2017-12-01 07:20:05
End at: 2017-12-01 07:20:35
Local clock offset: 2.981 ms
Remote clock offset: -0.777 ms

Below is generated by plot.py at 2017-12-01 13:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 146.159 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 57.18 Mbit/s
95th percentile per-packet one-way delay: 145.989 ms
Loss rate: 3.40%
-- Flow 2:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 146.298 ms
Loss rate: 5.04%
-- Flow 3:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 149.442 ms
Loss rate: 7.16%

Run 1: Report of PCC — Data Link

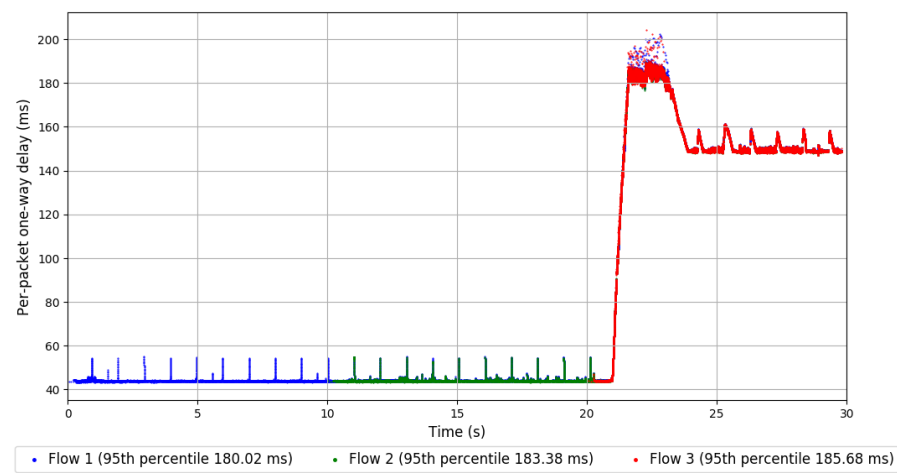
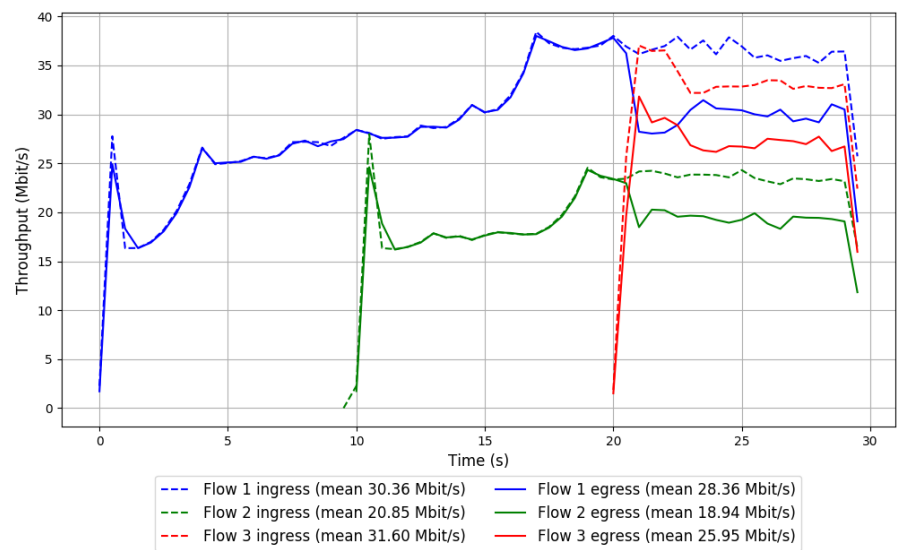


Run 2: Statistics of PCC

Start at: 2017-12-01 07:38:10
End at: 2017-12-01 07:38:40
Local clock offset: 3.883 ms
Remote clock offset: -4.061 ms

Below is generated by plot.py at 2017-12-01 13:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.44 Mbit/s
95th percentile per-packet one-way delay: 183.581 ms
Loss rate: 9.77%
-- Flow 1:
Average throughput: 28.36 Mbit/s
95th percentile per-packet one-way delay: 180.019 ms
Loss rate: 6.83%
-- Flow 2:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 183.379 ms
Loss rate: 9.59%
-- Flow 3:
Average throughput: 25.95 Mbit/s
95th percentile per-packet one-way delay: 185.680 ms
Loss rate: 18.57%

Run 2: Report of PCC — Data Link

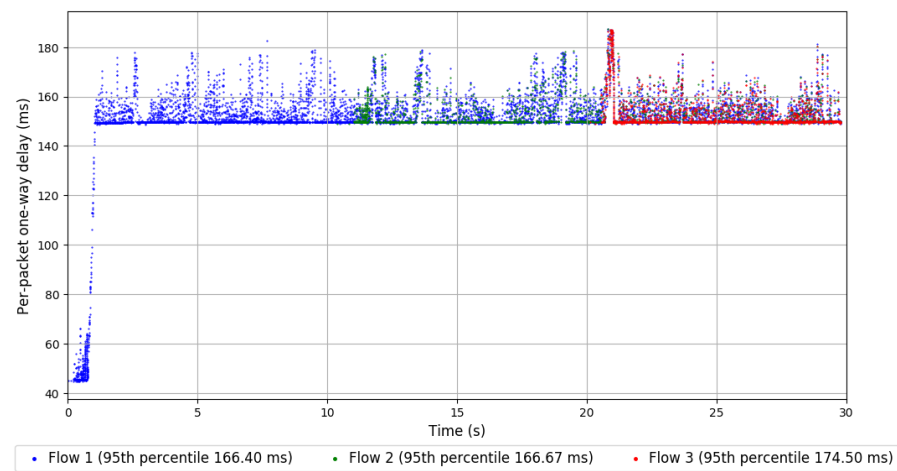
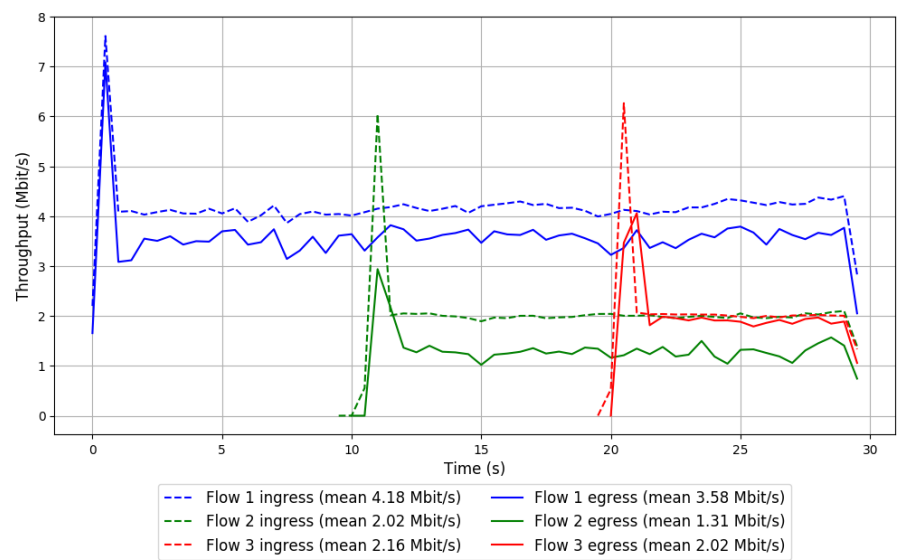


Run 3: Statistics of PCC

Start at: 2017-12-01 07:59:36
End at: 2017-12-01 08:00:06
Local clock offset: 4.383 ms
Remote clock offset: -4.976 ms

Below is generated by plot.py at 2017-12-01 13:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 167.503 ms
Loss rate: 18.51%
-- Flow 1:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 166.402 ms
Loss rate: 14.47%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 166.673 ms
Loss rate: 36.66%
-- Flow 3:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 174.497 ms
Loss rate: 7.98%

Run 3: Report of PCC — Data Link

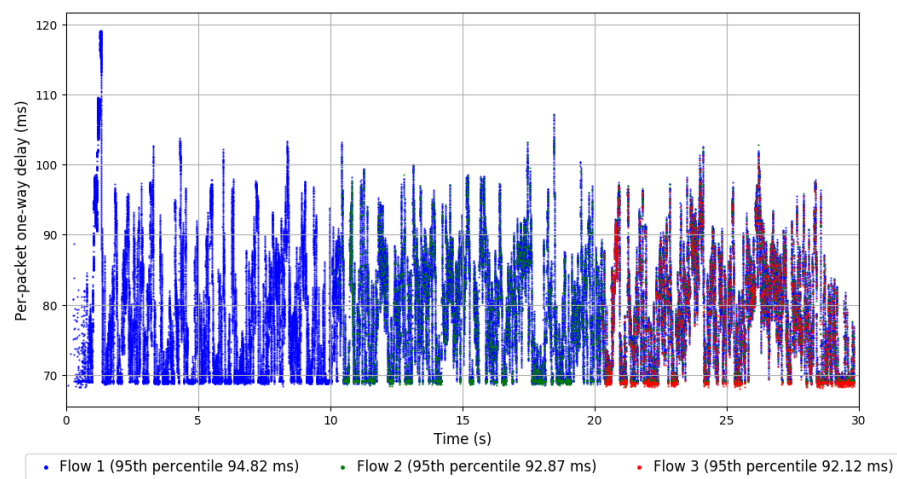
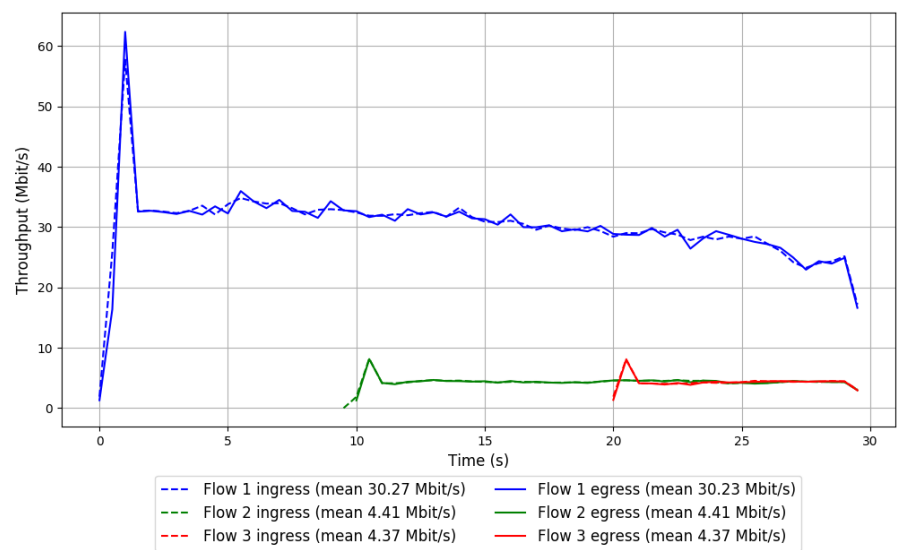


Run 4: Statistics of PCC

Start at: 2017-12-01 08:18:50
End at: 2017-12-01 08:19:20
Local clock offset: 4.238 ms
Remote clock offset: -28.01 ms

Below is generated by plot.py at 2017-12-01 13:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.59 Mbit/s
95th percentile per-packet one-way delay: 94.494 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 94.821 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 92.874 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 92.123 ms
Loss rate: 1.03%

Run 4: Report of PCC — Data Link

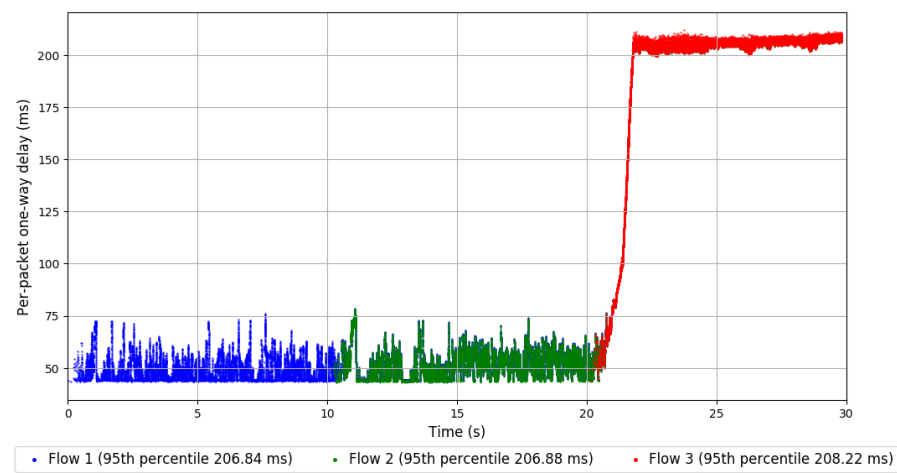
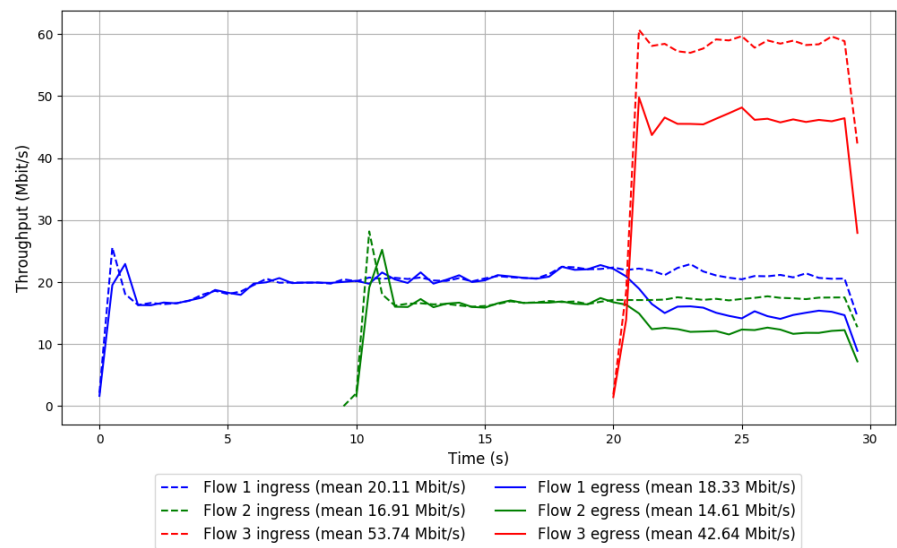


Run 5: Statistics of PCC

Start at: 2017-12-01 08:37:06
End at: 2017-12-01 08:37:36
Local clock offset: 3.73 ms
Remote clock offset: -3.334 ms

Below is generated by plot.py at 2017-12-01 13:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.98 Mbit/s
95th percentile per-packet one-way delay: 207.590 ms
Loss rate: 14.76%
-- Flow 1:
Average throughput: 18.33 Mbit/s
95th percentile per-packet one-way delay: 206.835 ms
Loss rate: 9.13%
-- Flow 2:
Average throughput: 14.61 Mbit/s
95th percentile per-packet one-way delay: 206.877 ms
Loss rate: 14.09%
-- Flow 3:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 208.216 ms
Loss rate: 21.56%

Run 5: Report of PCC — Data Link

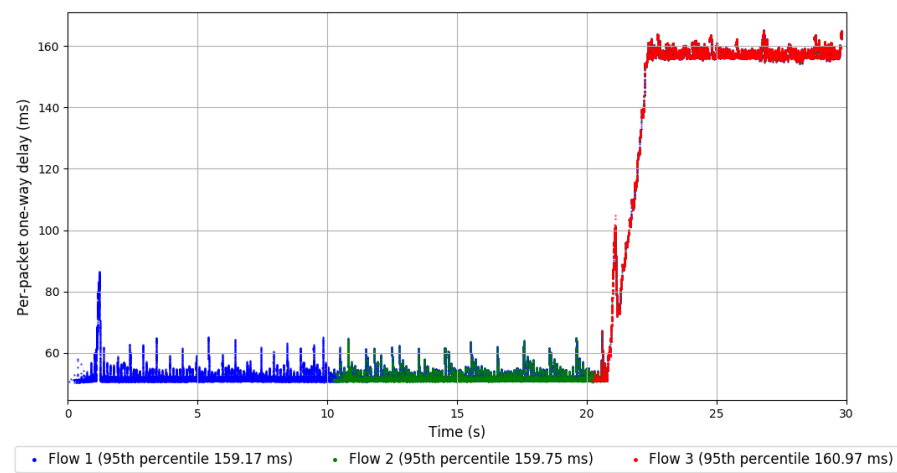
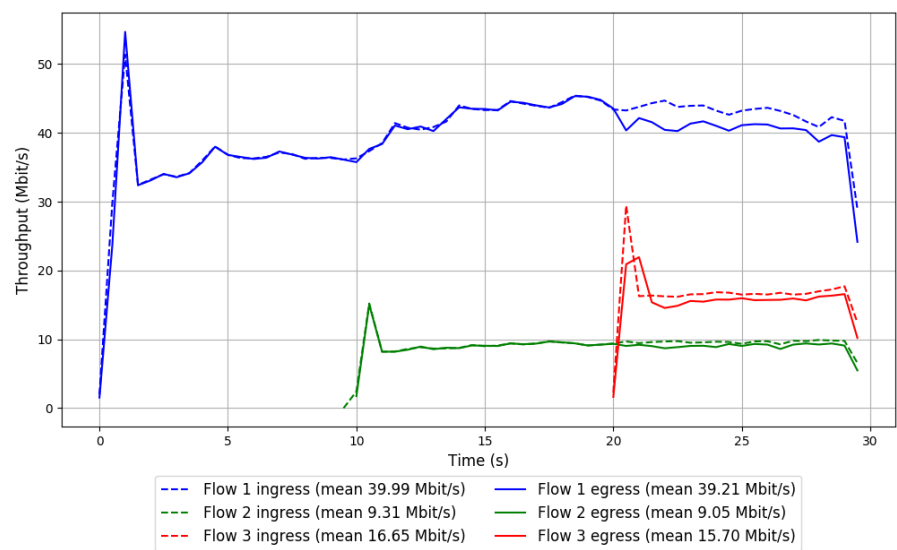


Run 6: Statistics of PCC

Start at: 2017-12-01 08:54:42
End at: 2017-12-01 08:55:12
Local clock offset: 3.778 ms
Remote clock offset: -10.176 ms

Below is generated by plot.py at 2017-12-01 13:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 159.546 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 39.21 Mbit/s
95th percentile per-packet one-way delay: 159.170 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 159.750 ms
Loss rate: 3.24%
-- Flow 3:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 160.975 ms
Loss rate: 6.55%

Run 6: Report of PCC — Data Link

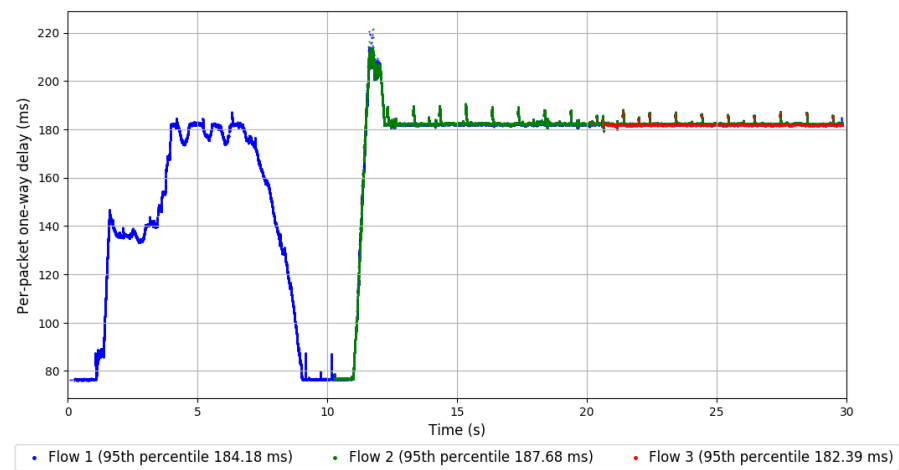
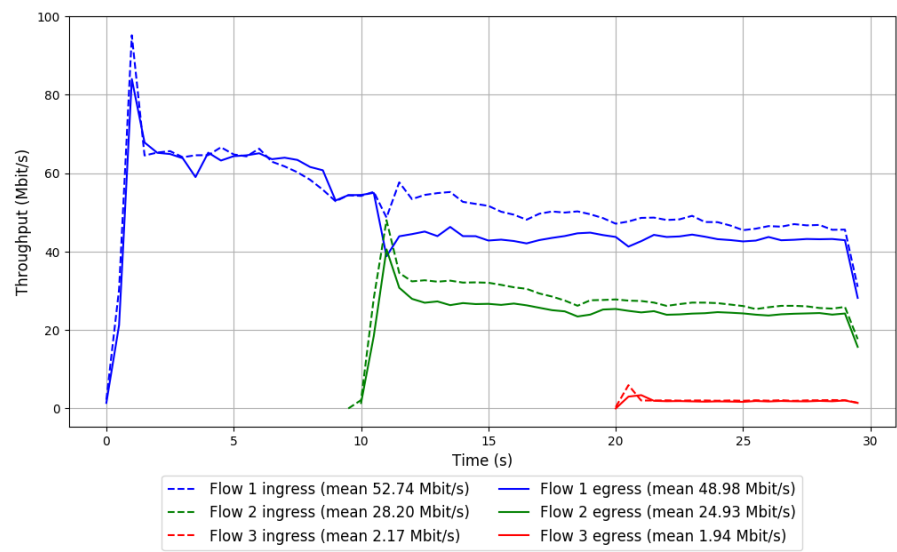


Run 7: Statistics of PCC

Start at: 2017-12-01 09:12:06
End at: 2017-12-01 09:12:36
Local clock offset: 3.143 ms
Remote clock offset: -37.799 ms

Below is generated by plot.py at 2017-12-01 13:29:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.17 Mbit/s
95th percentile per-packet one-way delay: 185.490 ms
Loss rate: 8.62%
-- Flow 1:
Average throughput: 48.98 Mbit/s
95th percentile per-packet one-way delay: 184.180 ms
Loss rate: 7.38%
-- Flow 2:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 187.677 ms
Loss rate: 11.98%
-- Flow 3:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 182.388 ms
Loss rate: 12.26%

Run 7: Report of PCC — Data Link

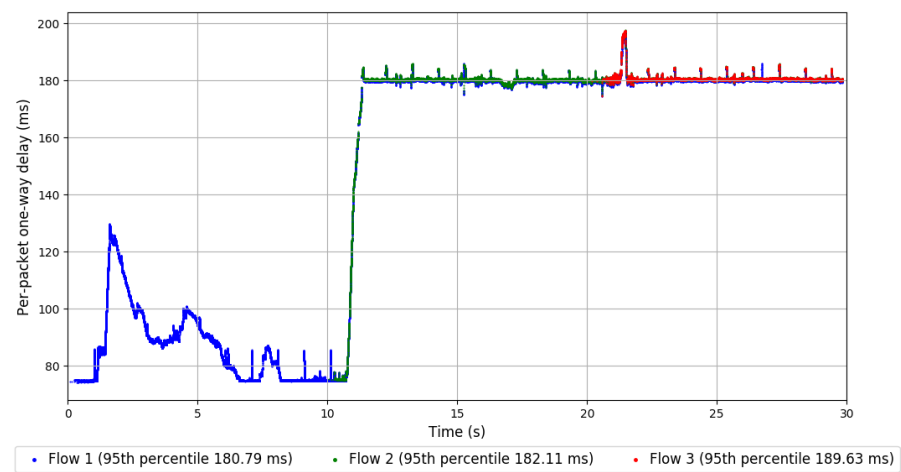
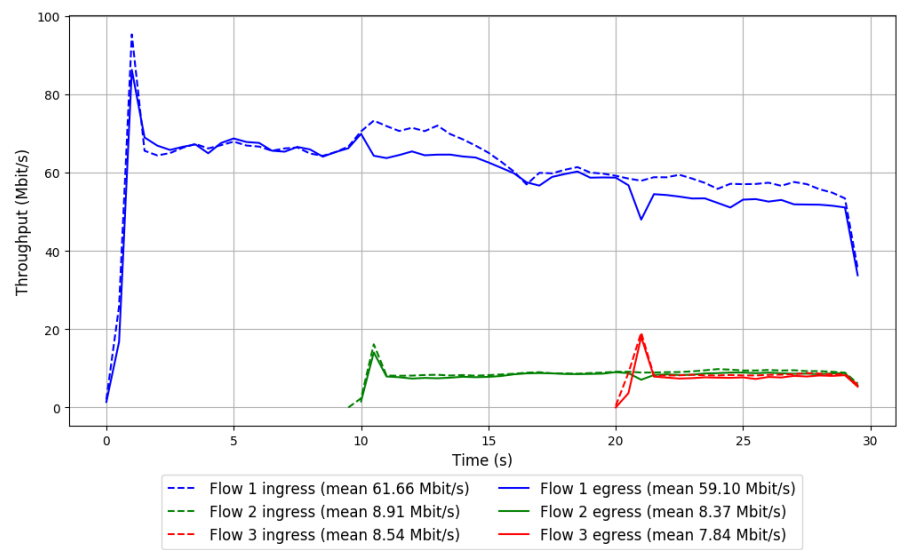


Run 8: Statistics of PCC

Start at: 2017-12-01 09:32:34
End at: 2017-12-01 09:33:04
Local clock offset: 2.818 ms
Remote clock offset: -36.477 ms

Below is generated by plot.py at 2017-12-01 13:30:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.20 Mbit/s
95th percentile per-packet one-way delay: 181.089 ms
Loss rate: 4.82%
-- Flow 1:
Average throughput: 59.10 Mbit/s
95th percentile per-packet one-way delay: 180.787 ms
Loss rate: 4.42%
-- Flow 2:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 182.109 ms
Loss rate: 6.52%
-- Flow 3:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 189.630 ms
Loss rate: 9.90%

Run 8: Report of PCC — Data Link

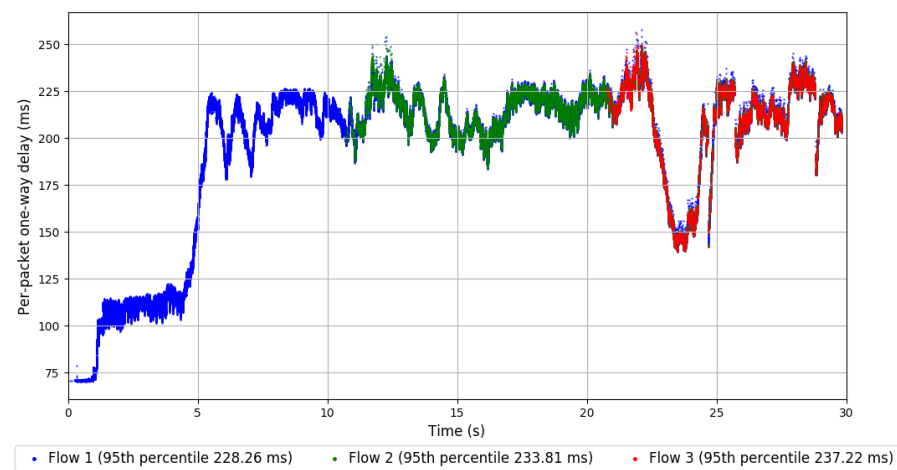
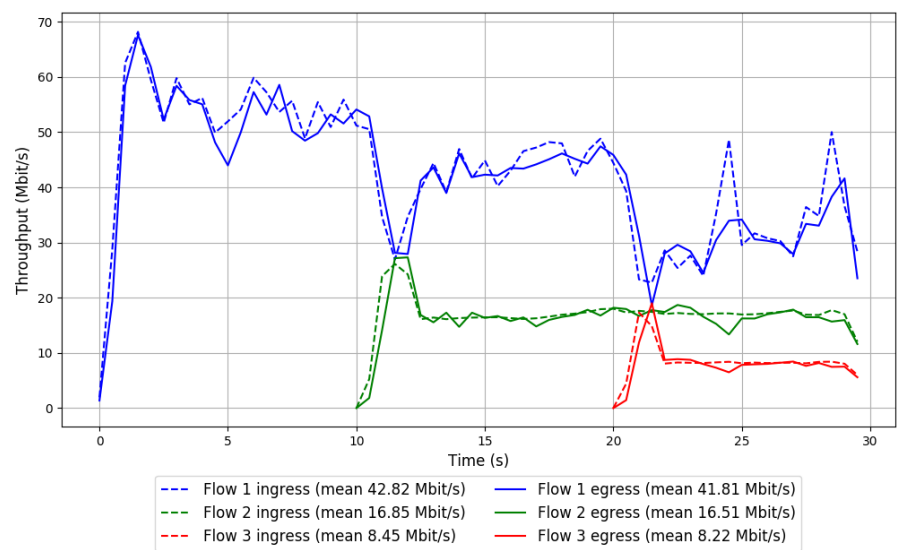


Run 9: Statistics of PCC

Start at: 2017-12-01 09:49:51
End at: 2017-12-01 09:50:21
Local clock offset: 2.75 ms
Remote clock offset: -32.093 ms

Below is generated by plot.py at 2017-12-01 13:30:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.33 Mbit/s
95th percentile per-packet one-way delay: 230.343 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 41.81 Mbit/s
95th percentile per-packet one-way delay: 228.260 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 233.810 ms
Loss rate: 3.18%
-- Flow 3:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 237.222 ms
Loss rate: 5.18%

Run 9: Report of PCC — Data Link

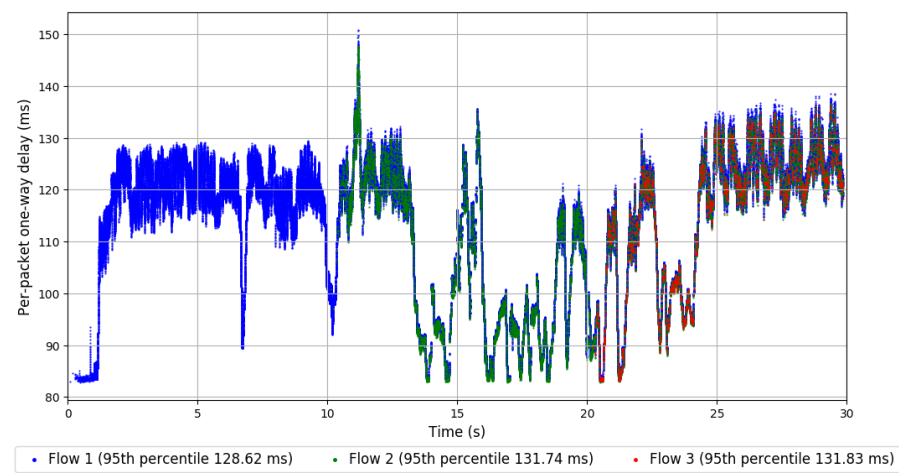
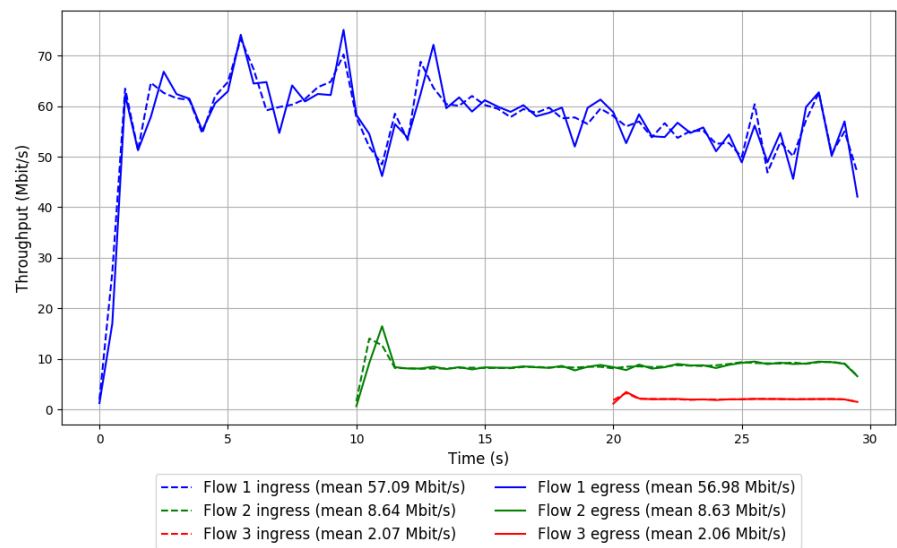


Run 10: Statistics of PCC

Start at: 2017-12-01 10:07:02
End at: 2017-12-01 10:07:32
Local clock offset: 2.983 ms
Remote clock offset: -43.419 ms

Below is generated by plot.py at 2017-12-01 13:30:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.38 Mbit/s
95th percentile per-packet one-way delay: 129.230 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 56.98 Mbit/s
95th percentile per-packet one-way delay: 128.621 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 131.743 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 131.829 ms
Loss rate: 1.39%

Run 10: Report of PCC — Data Link

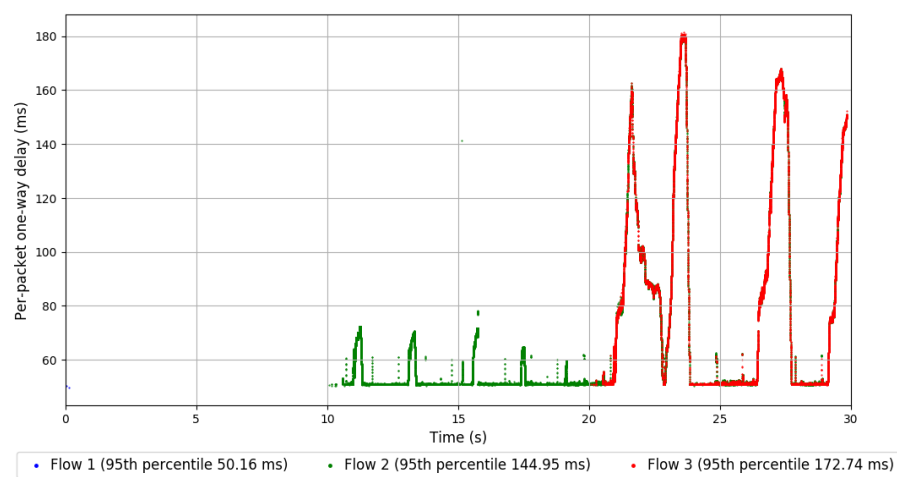
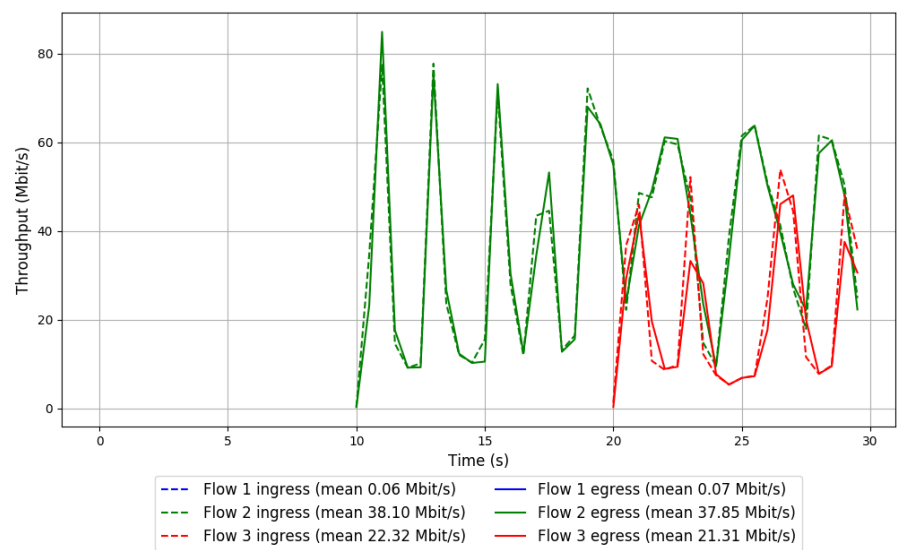


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-01 07:16:16
End at: 2017-12-01 07:16:46
Local clock offset: 3.089 ms
Remote clock offset: -11.986 ms

Below is generated by plot.py at 2017-12-01 13:30:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.13 Mbit/s
95th percentile per-packet one-way delay: 159.566 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 50.165 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.85 Mbit/s
95th percentile per-packet one-way delay: 144.948 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 172.741 ms
Loss rate: 5.34%

Run 1: Report of QUIC Cubic — Data Link

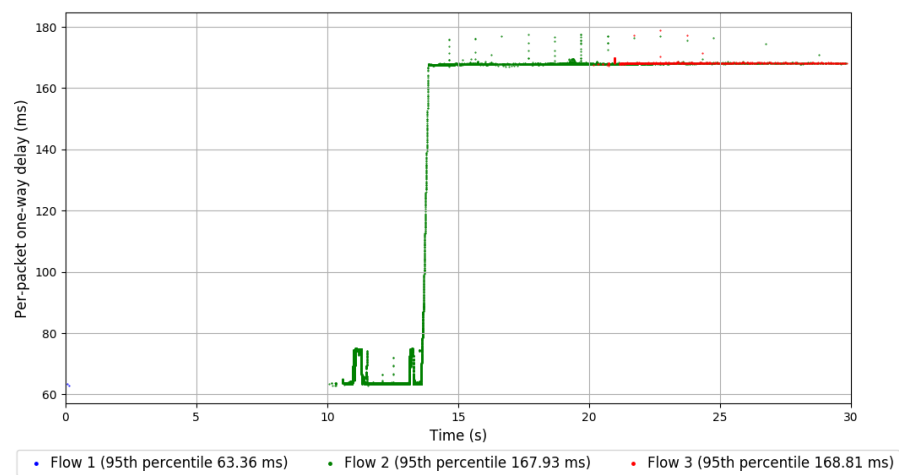
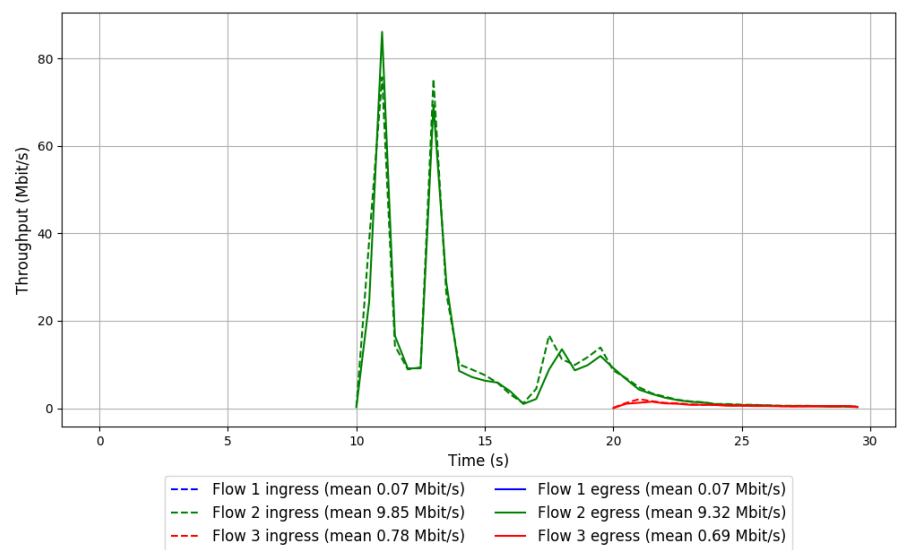


Run 2: Statistics of QUIC Cubic

Start at: 2017-12-01 07:34:13
End at: 2017-12-01 07:34:43
Local clock offset: 3.631 ms
Remote clock offset: -24.242 ms

Below is generated by plot.py at 2017-12-01 13:30:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 168.015 ms
Loss rate: 6.19%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 63.356 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 167.929 ms
Loss rate: 5.88%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 168.808 ms
Loss rate: 14.11%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-01 07:54:16

End at: 2017-12-01 07:54:46

Local clock offset: 4.362 ms

Remote clock offset: 0.698 ms

Below is generated by plot.py at 2017-12-01 13:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 157.566 ms

Loss rate: 8.59%

-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 155.540 ms

Loss rate: 5.07%

-- Flow 2:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 165.204 ms

Loss rate: 31.51%

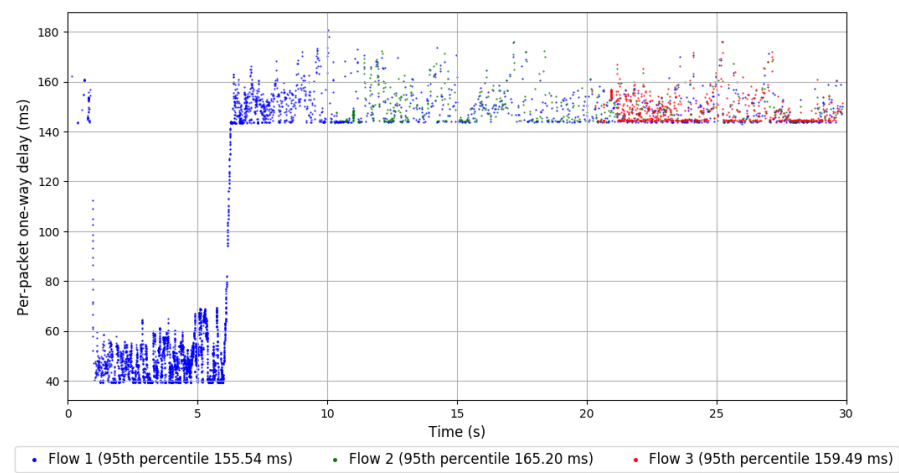
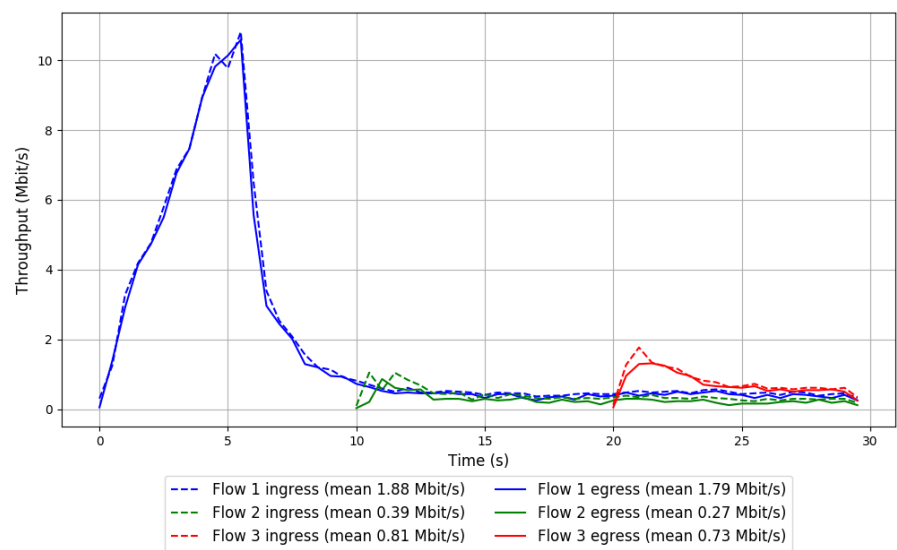
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 159.489 ms

Loss rate: 11.40%

Run 3: Report of QUIC Cubic — Data Link

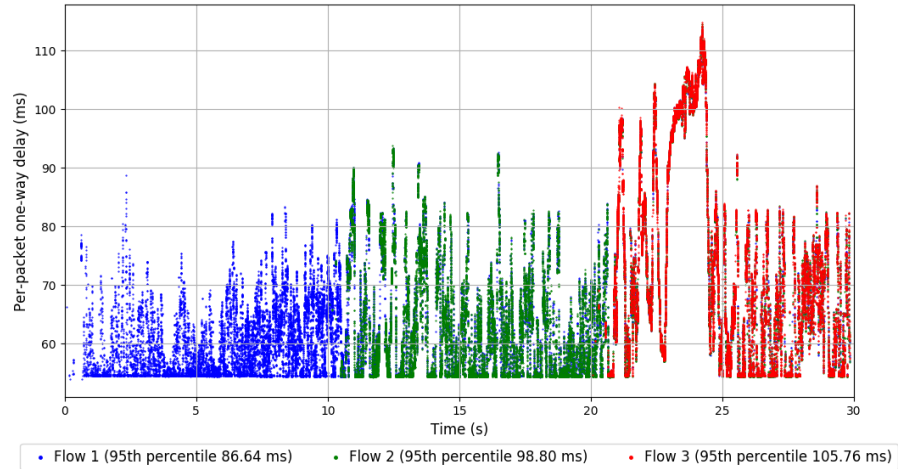
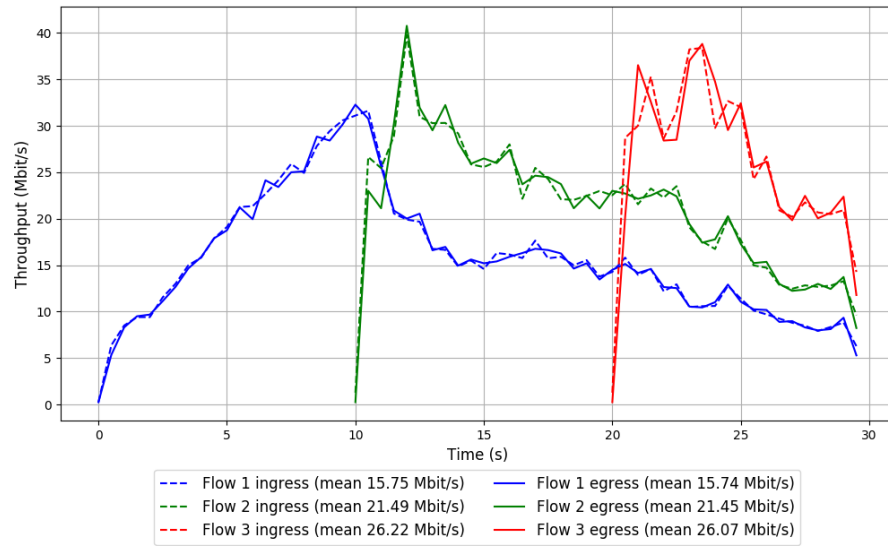


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-01 08:14:58
End at: 2017-12-01 08:15:28
Local clock offset: 4.42 ms
Remote clock offset: -13.679 ms

Below is generated by plot.py at 2017-12-01 13:30:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 100.509 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 15.74 Mbit/s
95th percentile per-packet one-way delay: 86.644 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 21.45 Mbit/s
95th percentile per-packet one-way delay: 98.797 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 26.07 Mbit/s
95th percentile per-packet one-way delay: 105.761 ms
Loss rate: 1.47%

Run 4: Report of QUIC Cubic — Data Link

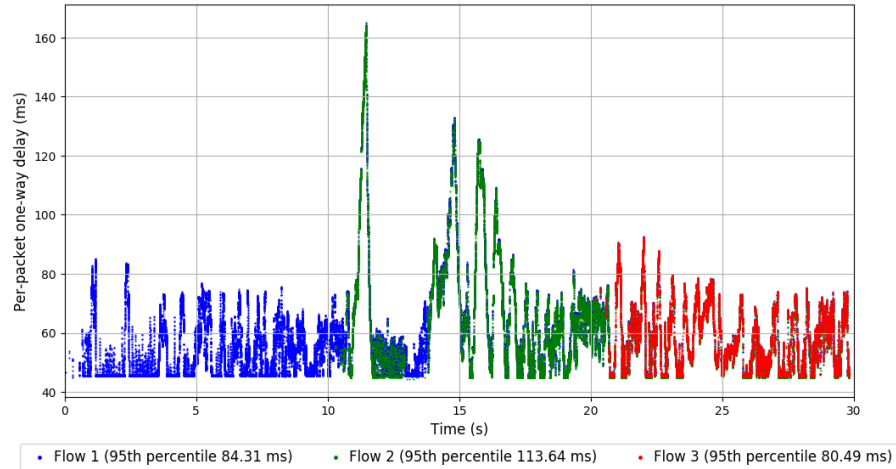
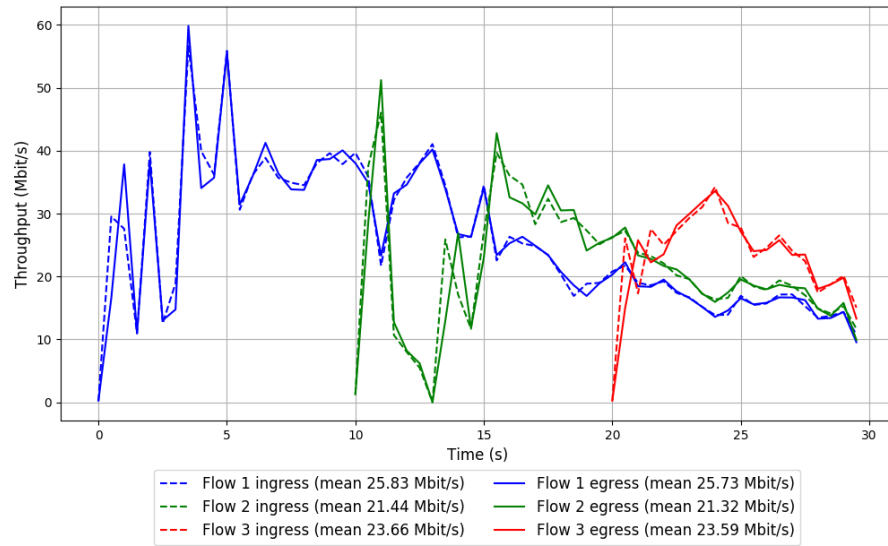


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-01 08:33:20
End at: 2017-12-01 08:33:51
Local clock offset: 3.828 ms
Remote clock offset: -4.502 ms

Below is generated by plot.py at 2017-12-01 13:30:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.60 Mbit/s
95th percentile per-packet one-way delay: 89.752 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 25.73 Mbit/s
95th percentile per-packet one-way delay: 84.310 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 113.641 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 80.494 ms
Loss rate: 1.49%

Run 5: Report of QUIC Cubic — Data Link

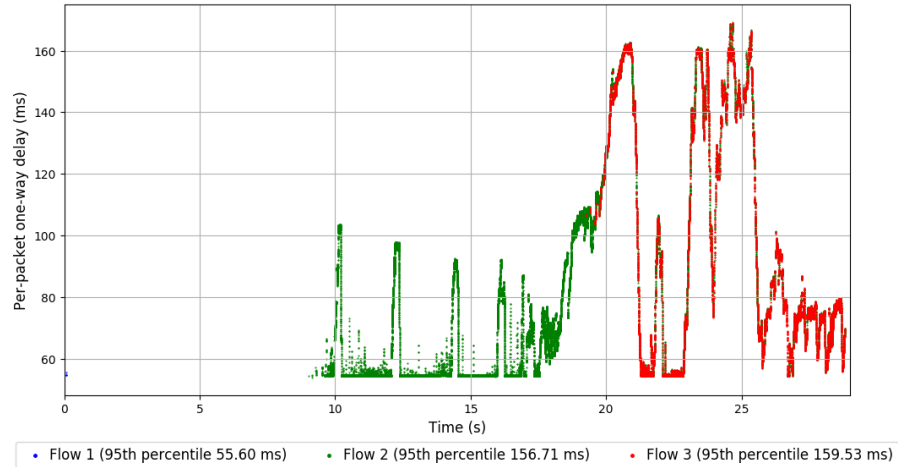
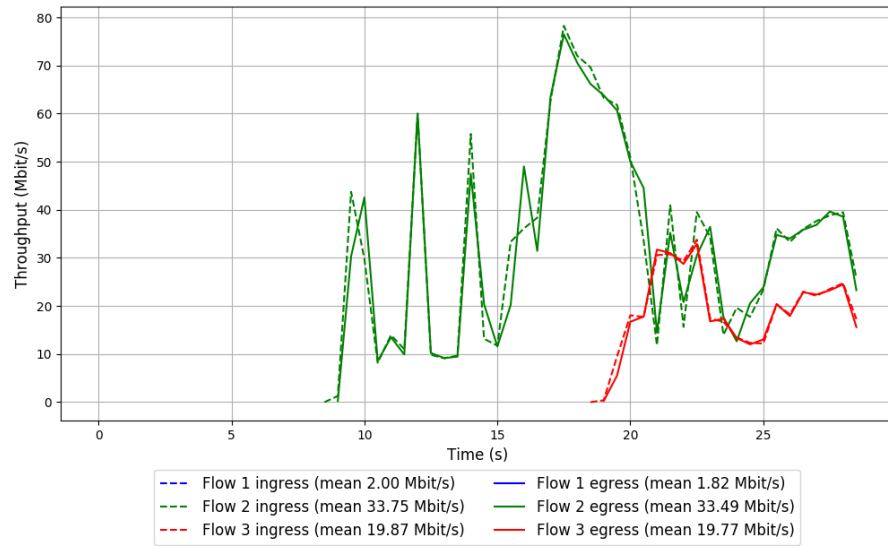


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-01 08:51:01
End at: 2017-12-01 08:51:31
Local clock offset: 3.734 ms
Remote clock offset: -13.826 ms

Below is generated by plot.py at 2017-12-01 13:30:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.71 Mbit/s
95th percentile per-packet one-way delay: 157.748 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 55.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 156.710 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 159.526 ms
Loss rate: 1.90%

Run 6: Report of QUIC Cubic — Data Link

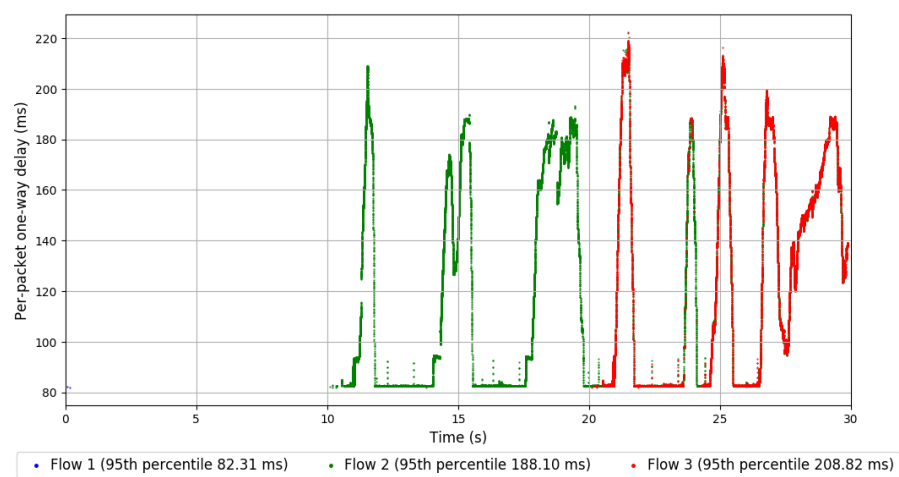
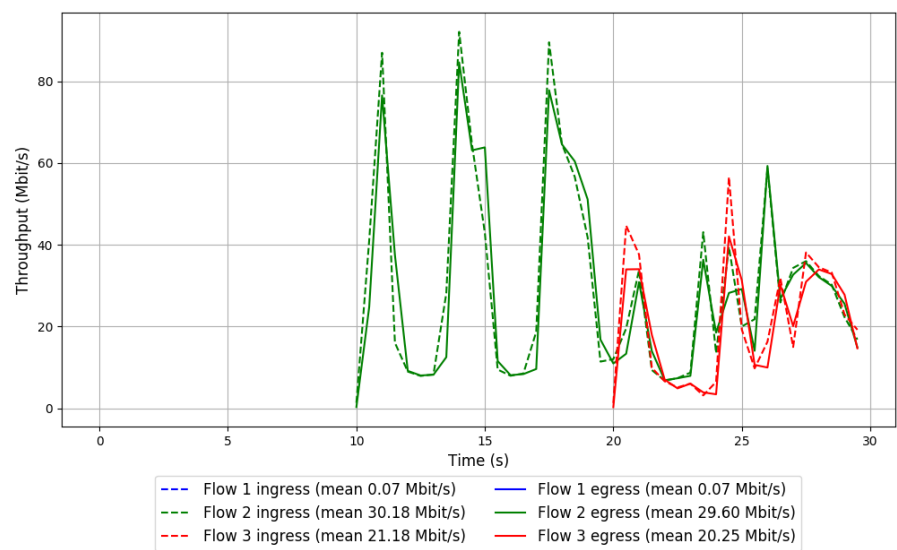


Run 7: Statistics of QUIC Cubic

Start at: 2017-12-01 09:08:25
End at: 2017-12-01 09:08:55
Local clock offset: 3.081 ms
Remote clock offset: -43.573 ms

Below is generated by plot.py at 2017-12-01 13:30:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 193.813 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 82.309 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 188.103 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 20.25 Mbit/s
95th percentile per-packet one-way delay: 208.819 ms
Loss rate: 5.18%

Run 7: Report of QUIC Cubic — Data Link

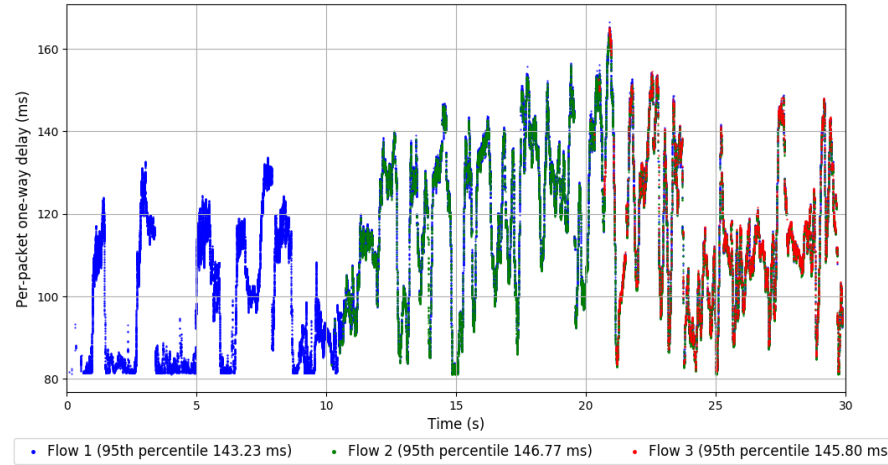
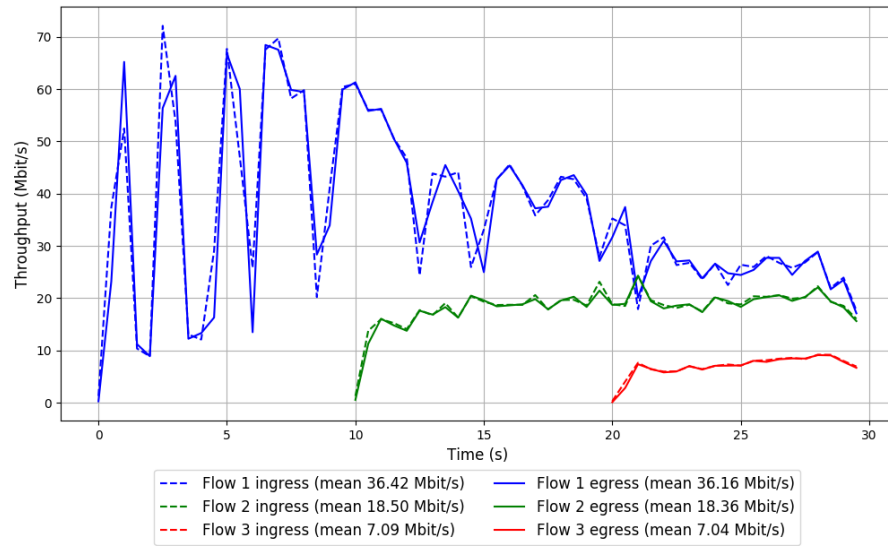


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-01 09:26:11
End at: 2017-12-01 09:26:41
Local clock offset: 2.883 ms
Remote clock offset: -43.08 ms

Below is generated by plot.py at 2017-12-01 13:31:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.63 Mbit/s
95th percentile per-packet one-way delay: 144.440 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 143.233 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 146.769 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 145.797 ms
Loss rate: 2.18%

Run 8: Report of QUIC Cubic — Data Link

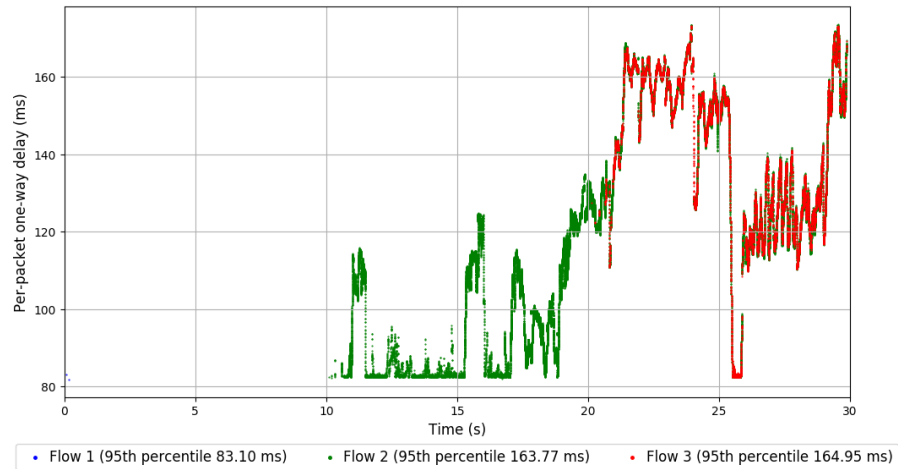
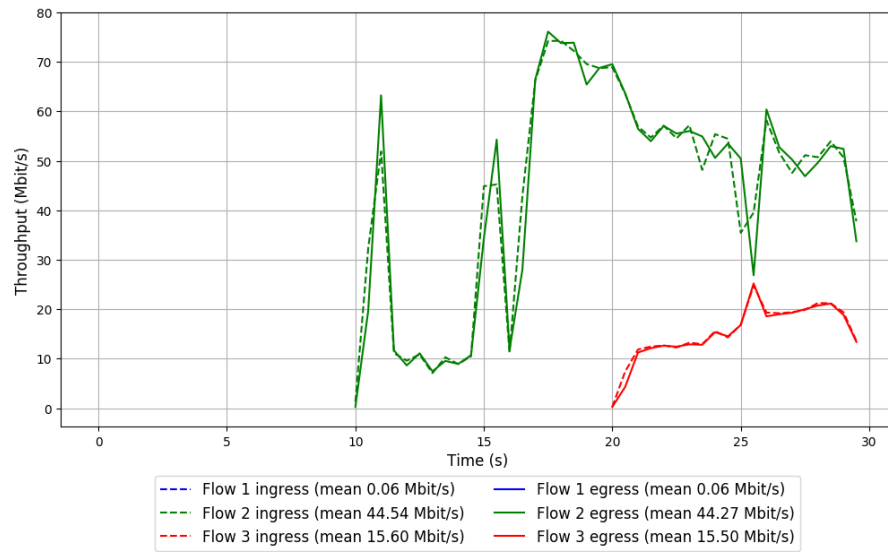


Run 9: Statistics of QUIC Cubic

Start at: 2017-12-01 09:46:09
End at: 2017-12-01 09:46:39
Local clock offset: 2.719 ms
Remote clock offset: -43.926 ms

Below is generated by plot.py at 2017-12-01 13:31:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 164.028 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 83.096 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.27 Mbit/s
95th percentile per-packet one-way delay: 163.771 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 164.951 ms
Loss rate: 2.04%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-01 10:03:19

End at: 2017-12-01 10:03:49

Local clock offset: 3.015 ms

Remote clock offset: -37.618 ms

Below is generated by plot.py at 2017-12-01 13:31:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 158.569 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 156.502 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 21.34 Mbit/s

95th percentile per-packet one-way delay: 158.762 ms

Loss rate: 0.78%

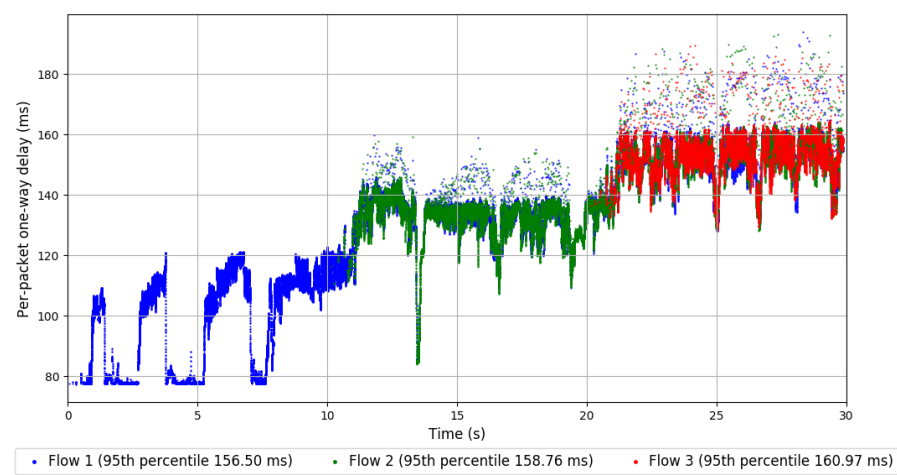
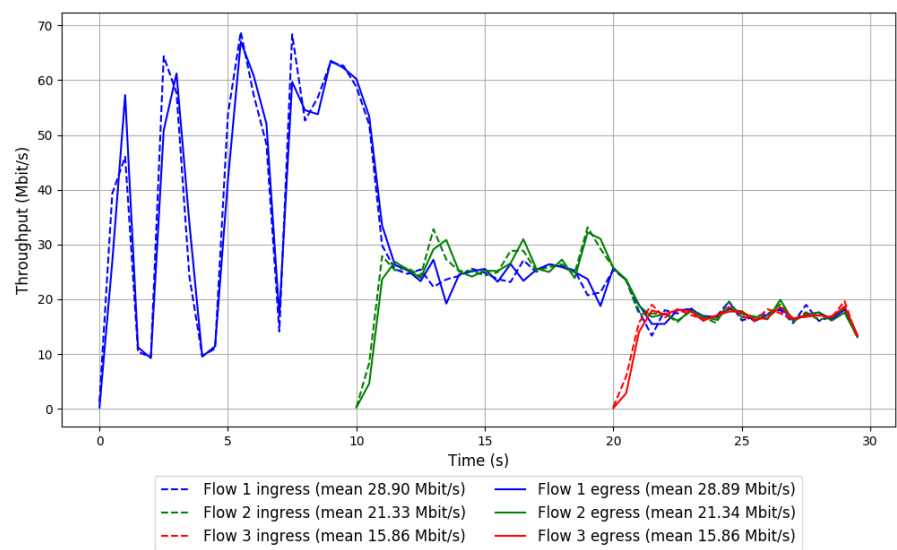
-- Flow 3:

Average throughput: 15.86 Mbit/s

95th percentile per-packet one-way delay: 160.972 ms

Loss rate: 1.80%

Run 10: Report of QUIC Cubic — Data Link

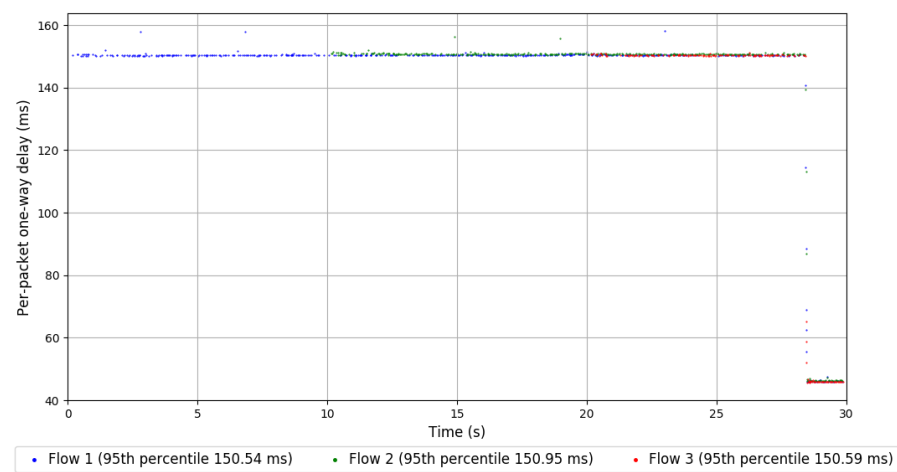
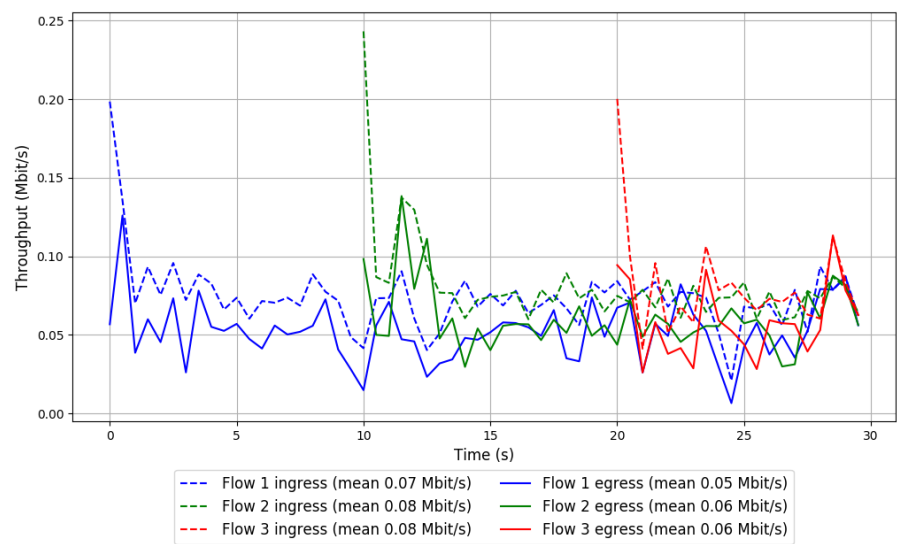


Run 1: Statistics of SCReAM

Start at: 2017-12-01 07:18:48
End at: 2017-12-01 07:19:18
Local clock offset: 3.012 ms
Remote clock offset: -7.752 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 150.859 ms
Loss rate: 28.04%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 150.543 ms
Loss rate: 29.44%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 150.946 ms
Loss rate: 26.07%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 150.593 ms
Loss rate: 28.17%

Run 1: Report of SReAM — Data Link

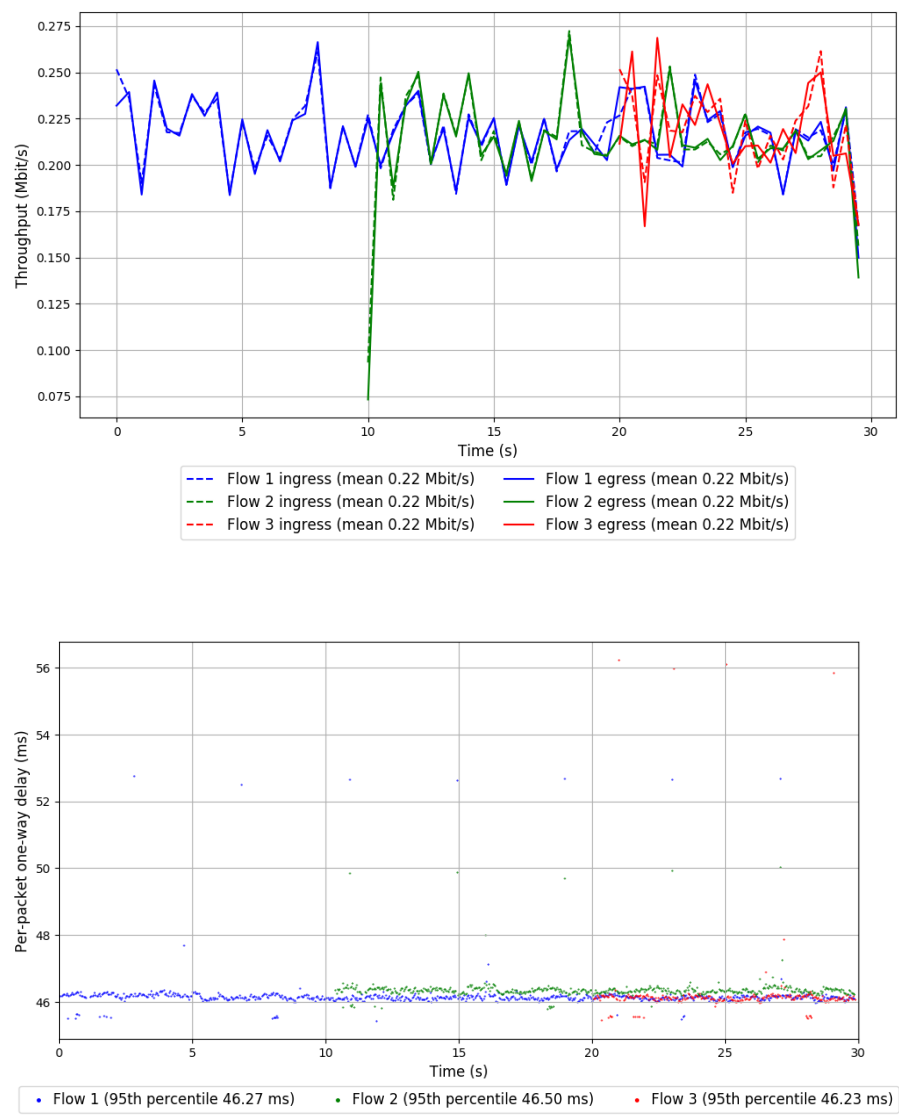


Run 2: Statistics of SReAM

Start at: 2017-12-01 07:36:59
End at: 2017-12-01 07:37:29
Local clock offset: 3.607 ms
Remote clock offset: -7.057 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 46.437 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.274 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.497 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.233 ms
Loss rate: 0.73%

Run 2: Report of SReAM — Data Link

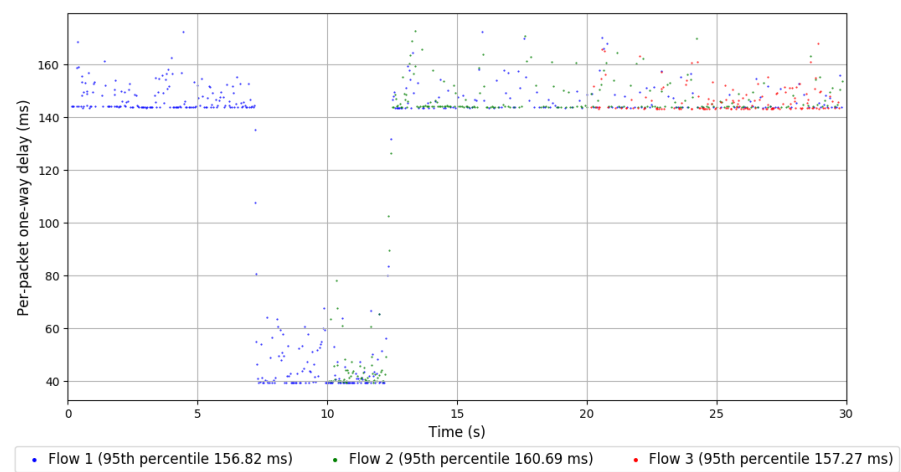
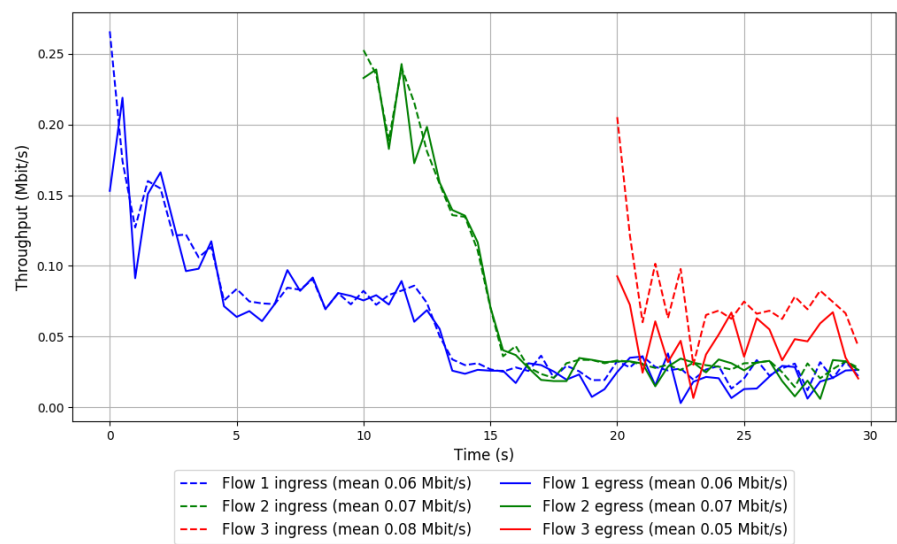


Run 3: Statistics of SReAM

Start at: 2017-12-01 07:58:15
End at: 2017-12-01 07:58:45
Local clock offset: 4.487 ms
Remote clock offset: 0.735 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 157.810 ms
Loss rate: 12.92%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 156.825 ms
Loss rate: 9.07%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 160.693 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 157.272 ms
Loss rate: 38.77%

Run 3: Report of SReAM — Data Link

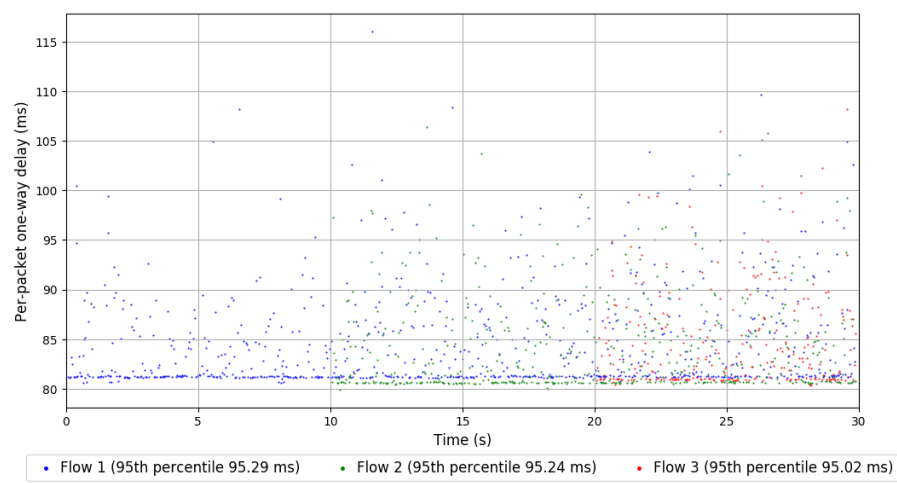
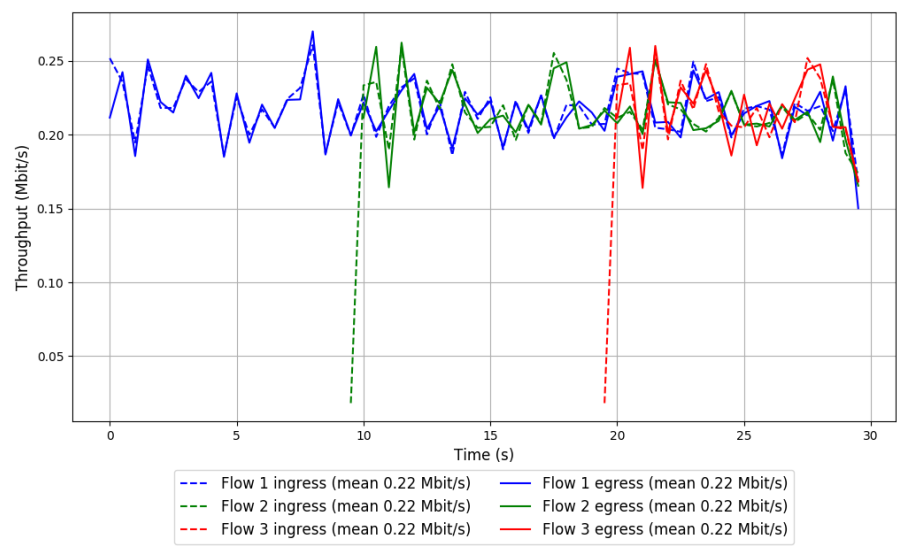


Run 4: Statistics of SReAM

Start at: 2017-12-01 08:17:38
End at: 2017-12-01 08:18:08
Local clock offset: 4.303 ms
Remote clock offset: -40.129 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 95.288 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.288 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.244 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.016 ms
Loss rate: 0.74%

Run 4: Report of SReAM — Data Link

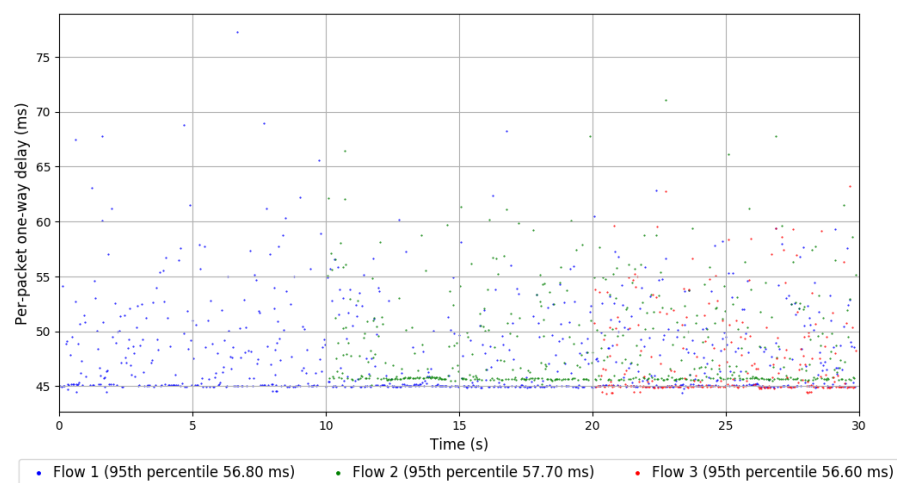
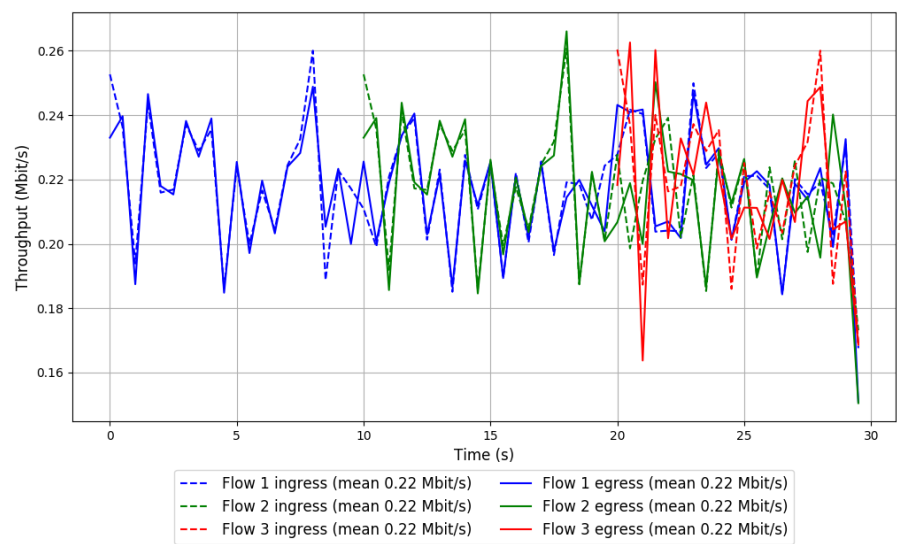


Run 5: Statistics of SReAM

Start at: 2017-12-01 08:35:56
End at: 2017-12-01 08:36:26
Local clock offset: 3.876 ms
Remote clock offset: -4.428 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 57.057 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.798 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.701 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.600 ms
Loss rate: 0.74%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-12-01 08:53:31

End at: 2017-12-01 08:54:01

Local clock offset: 3.448 ms

Remote clock offset: -2.15 ms

Below is generated by plot.py at 2017-12-01 13:31:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 44.819 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 45.064 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 44.938 ms

Loss rate: 0.42%

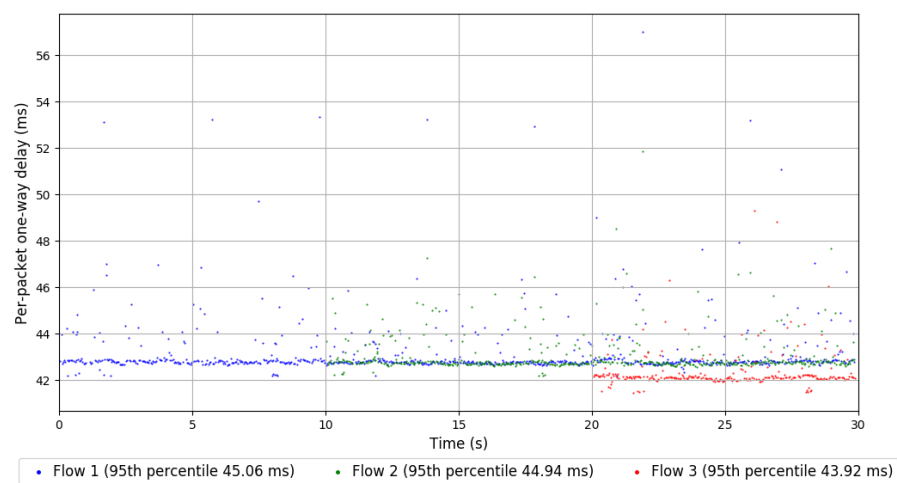
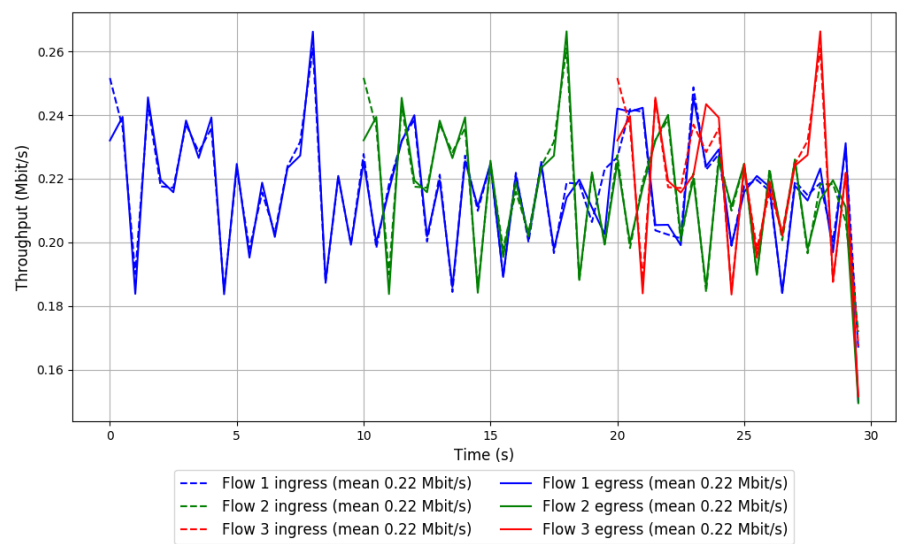
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 43.925 ms

Loss rate: 0.74%

Run 6: Report of SReAM — Data Link

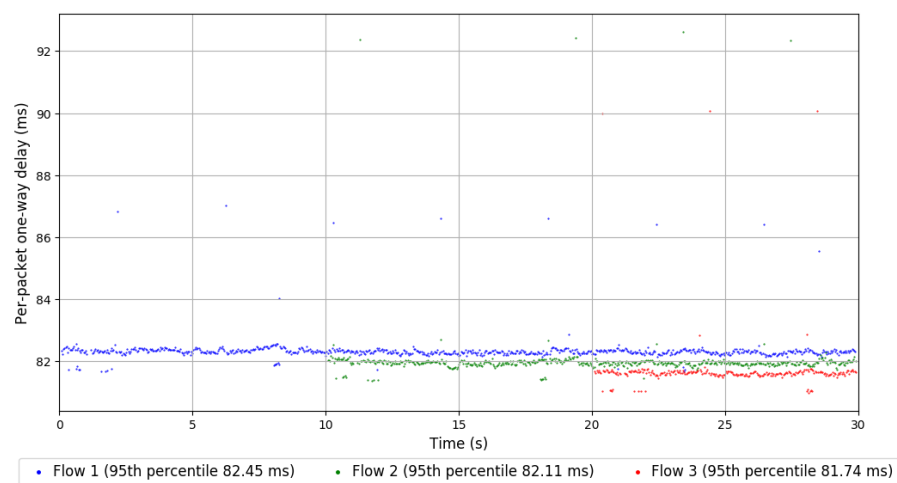
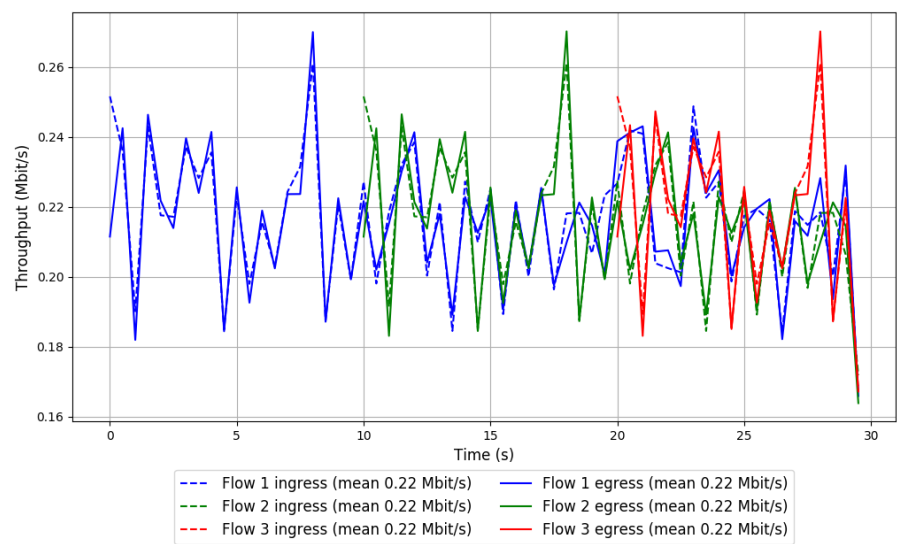


Run 7: Statistics of SReAM

Start at: 2017-12-01 09:10:55
End at: 2017-12-01 09:11:25
Local clock offset: 3.084 ms
Remote clock offset: -43.03 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 82.428 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.455 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.108 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.744 ms
Loss rate: 0.73%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

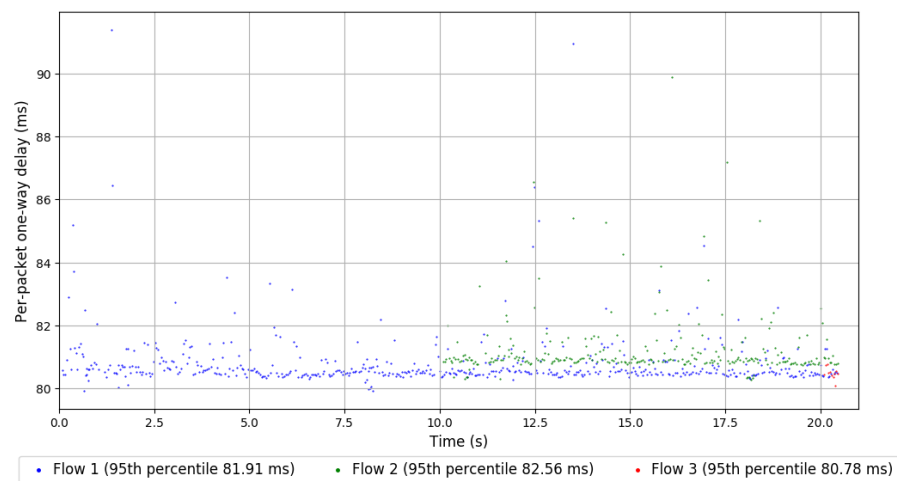
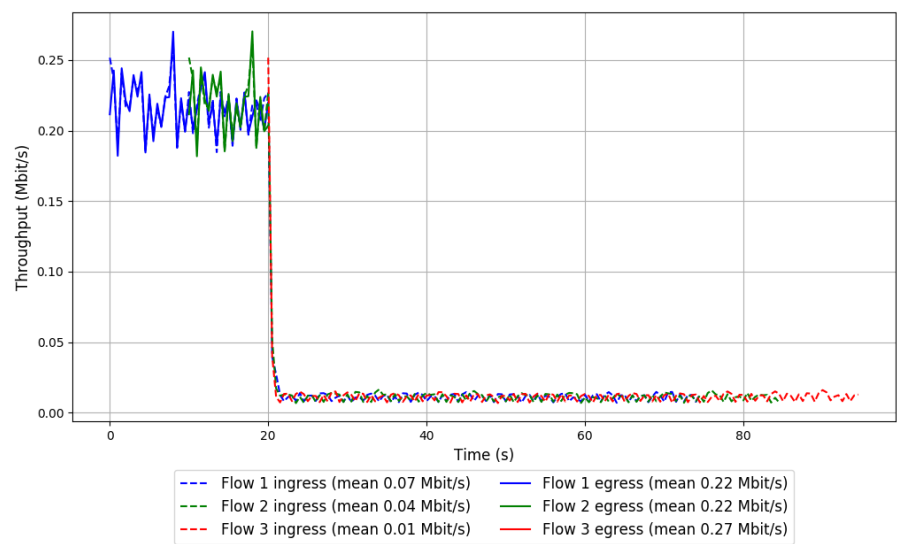
Start at: 2017-12-01 09:28:49

End at: 2017-12-01 09:29:19

Local clock offset: 3.017 ms

Remote clock offset: -41.9 ms

Run 8: Report of SReAM — Data Link

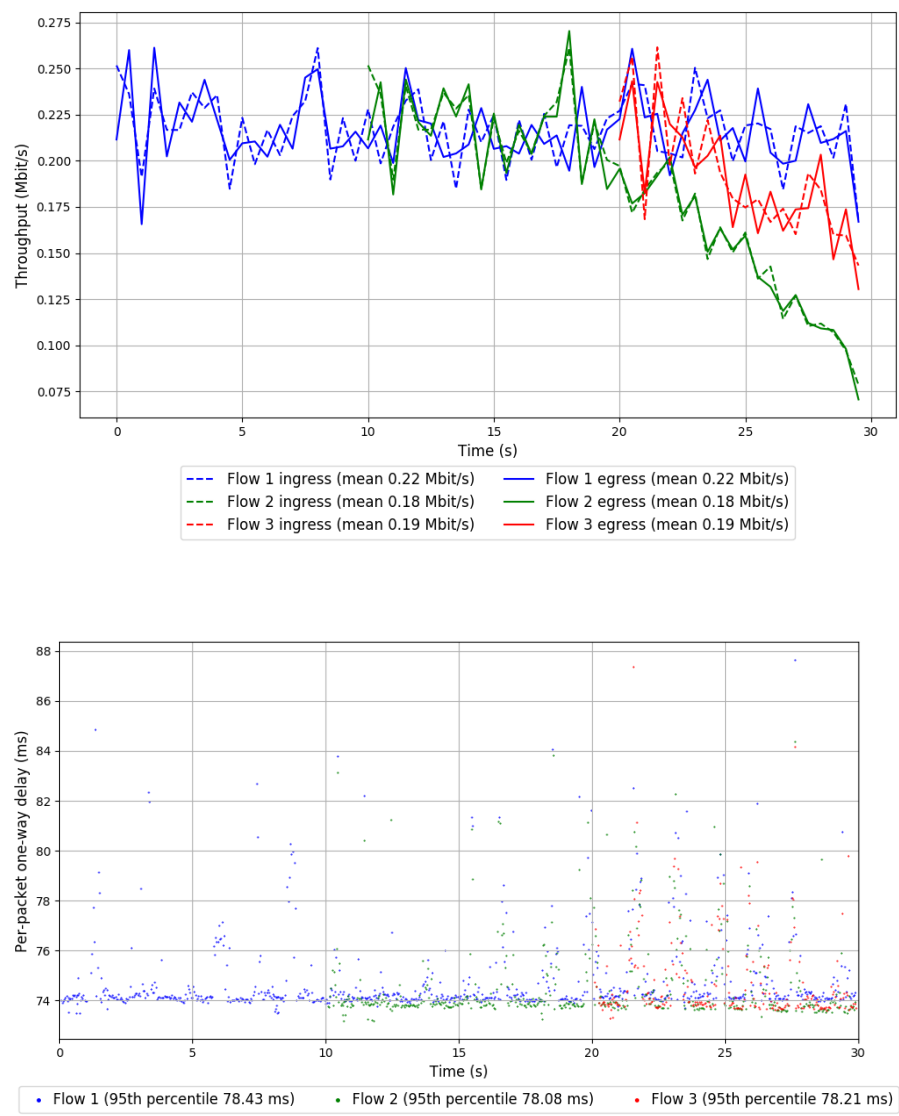


Run 9: Statistics of SCReAM

Start at: 2017-12-01 09:48:40
End at: 2017-12-01 09:49:10
Local clock offset: 2.864 ms
Remote clock offset: -35.074 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 78.317 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.431 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 78.084 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 78.212 ms
Loss rate: 1.14%

Run 9: Report of SReAM — Data Link

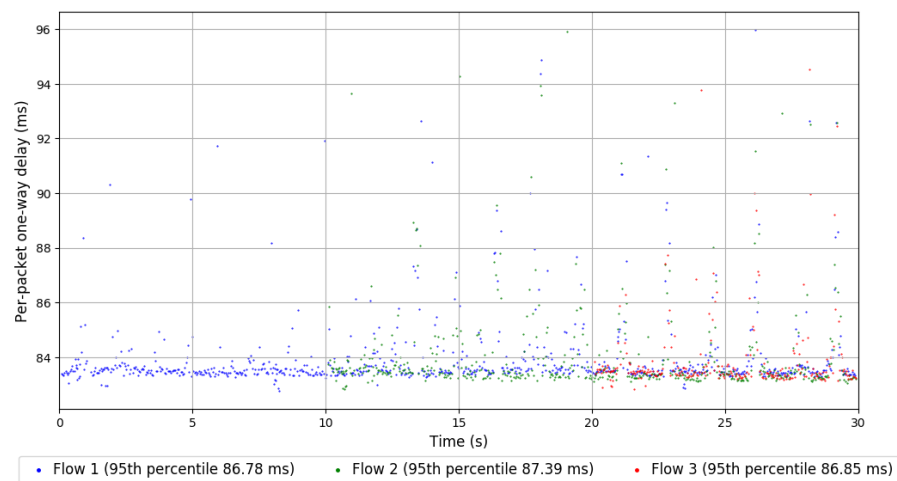
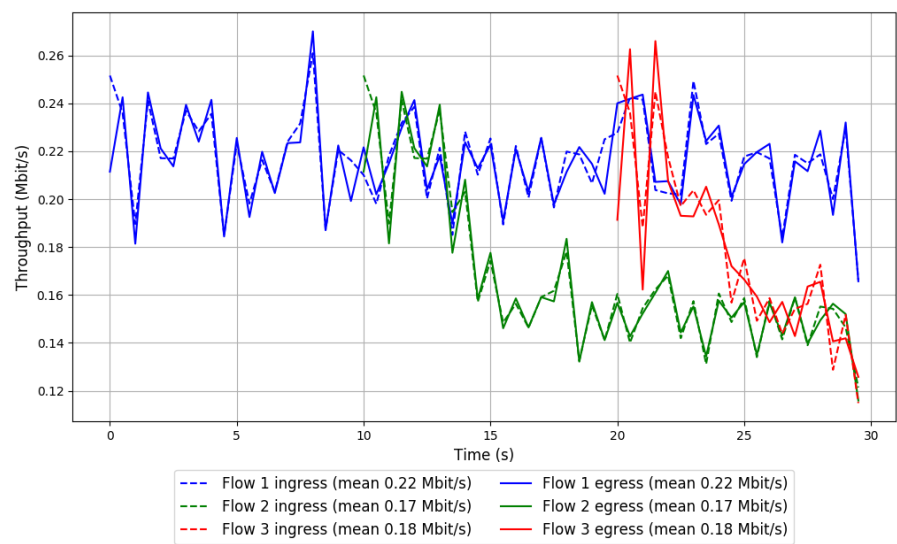


Run 10: Statistics of SReAM

Start at: 2017-12-01 10:05:51
End at: 2017-12-01 10:06:21
Local clock offset: 3.053 ms
Remote clock offset: -43.541 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 87.011 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.785 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 87.392 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 86.849 ms
Loss rate: 1.13%

Run 10: Report of SCRaM — Data Link

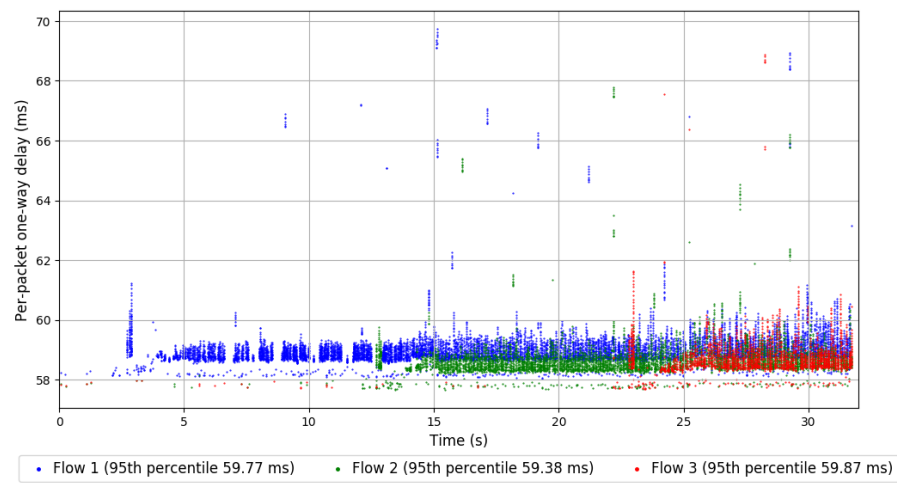
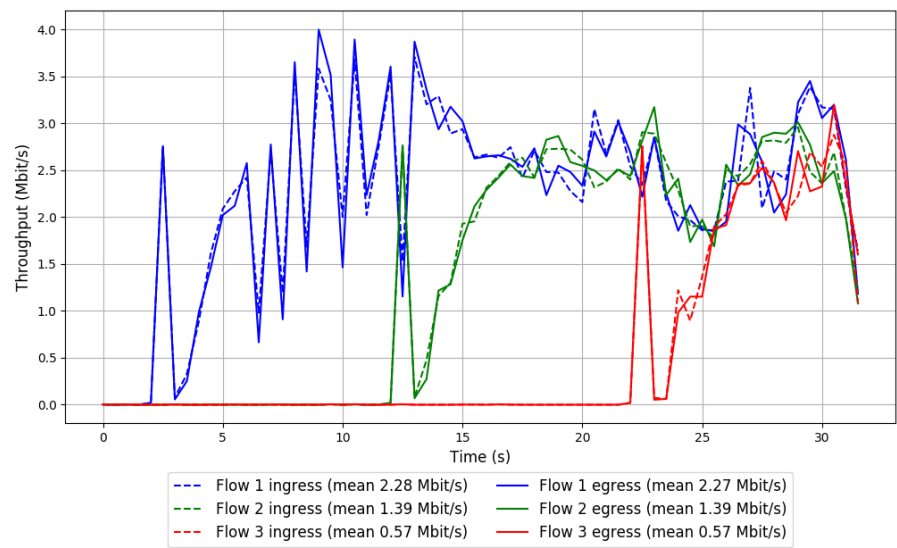


Run 1: Statistics of WebRTC media

Start at: 2017-12-01 07:30:33
End at: 2017-12-01 07:31:03
Local clock offset: 3.477 ms
Remote clock offset: -19.584 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 59.694 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 59.768 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 59.381 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 59.871 ms
Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-01 07:49:40

End at: 2017-12-01 07:50:10

Local clock offset: 4.078 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2017-12-01 13:31:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 166.928 ms

Loss rate: 15.12%

-- Flow 1:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 167.847 ms

Loss rate: 13.20%

-- Flow 2:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 165.819 ms

Loss rate: 17.06%

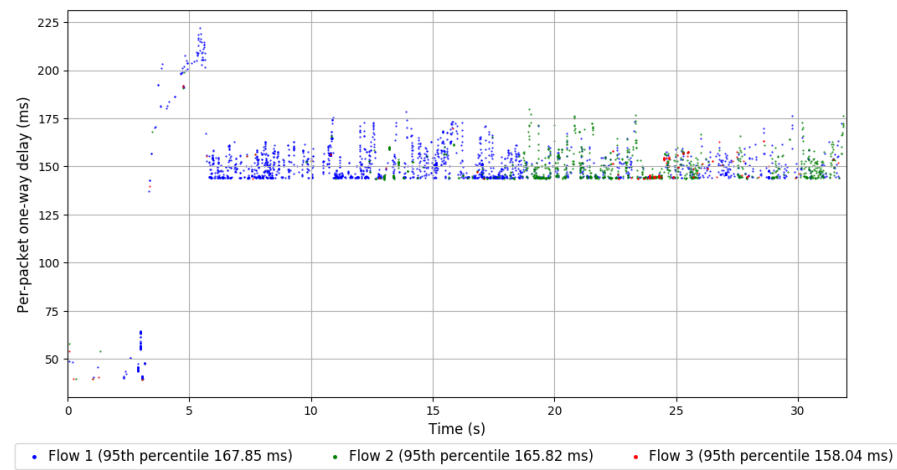
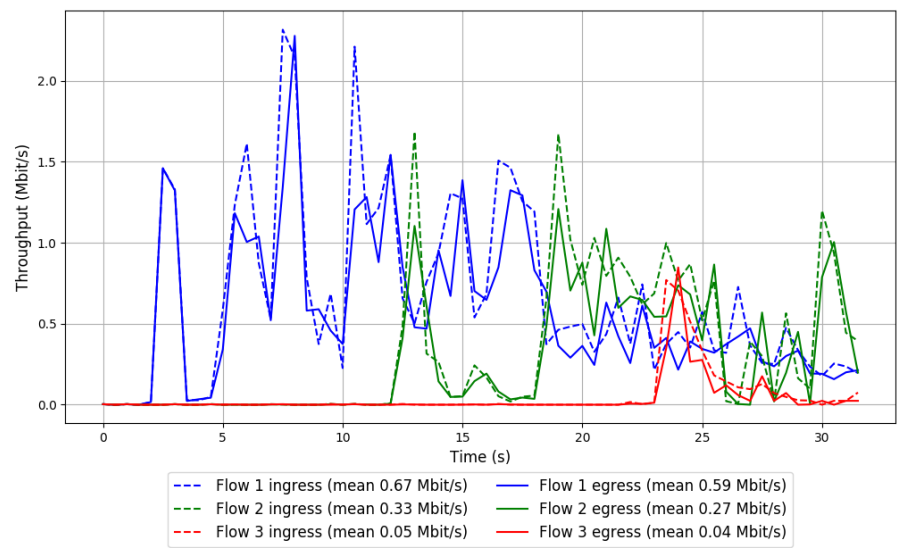
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 158.045 ms

Loss rate: 27.80%

Run 2: Report of WebRTC media — Data Link

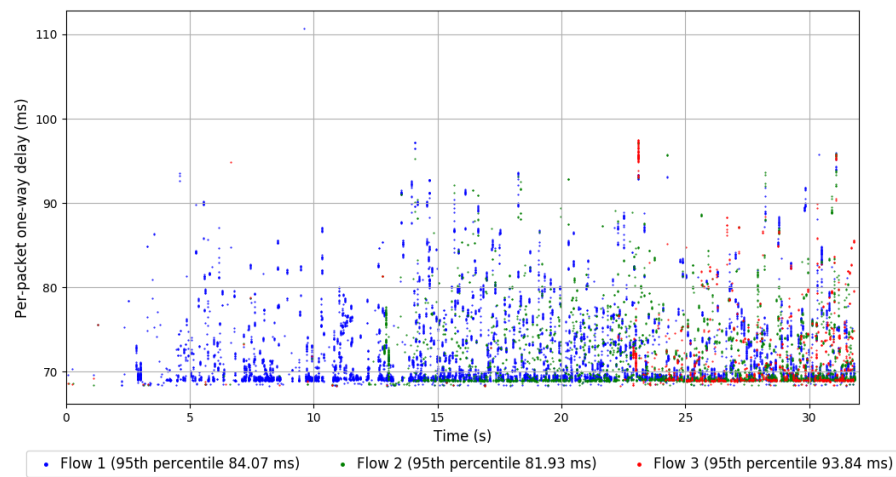
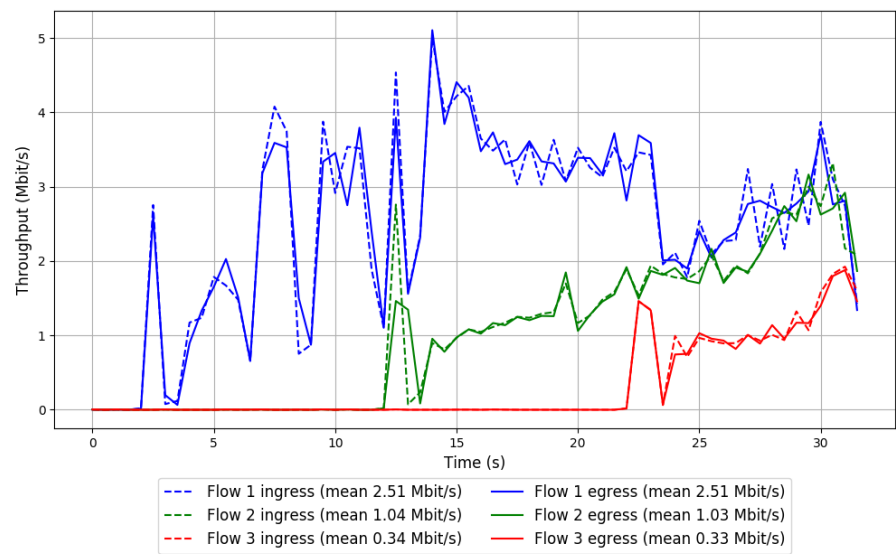


Run 3: Statistics of WebRTC media

Start at: 2017-12-01 08:11:20
End at: 2017-12-01 08:11:50
Local clock offset: 4.491 ms
Remote clock offset: -28.043 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 83.895 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 84.066 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 81.931 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 93.841 ms
Loss rate: 2.30%

Run 3: Report of WebRTC media — Data Link

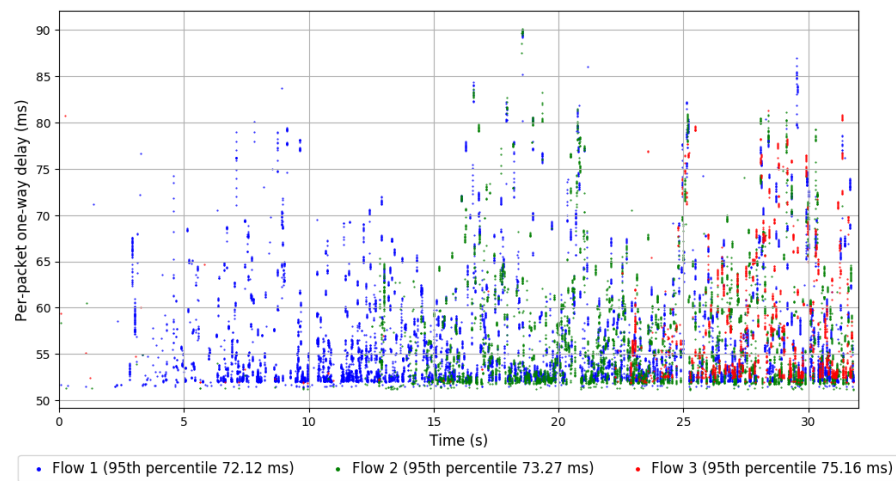
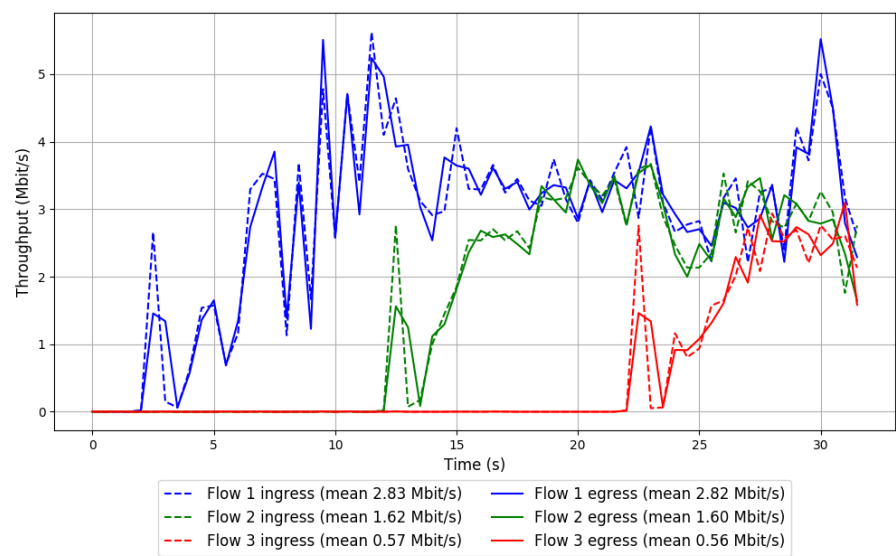


Run 4: Statistics of WebRTC media

Start at: 2017-12-01 08:29:43
End at: 2017-12-01 08:30:13
Local clock offset: 3.82 ms
Remote clock offset: -11.543 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 73.027 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 72.122 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 73.271 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 75.158 ms
Loss rate: 1.52%

Run 4: Report of WebRTC media — Data Link

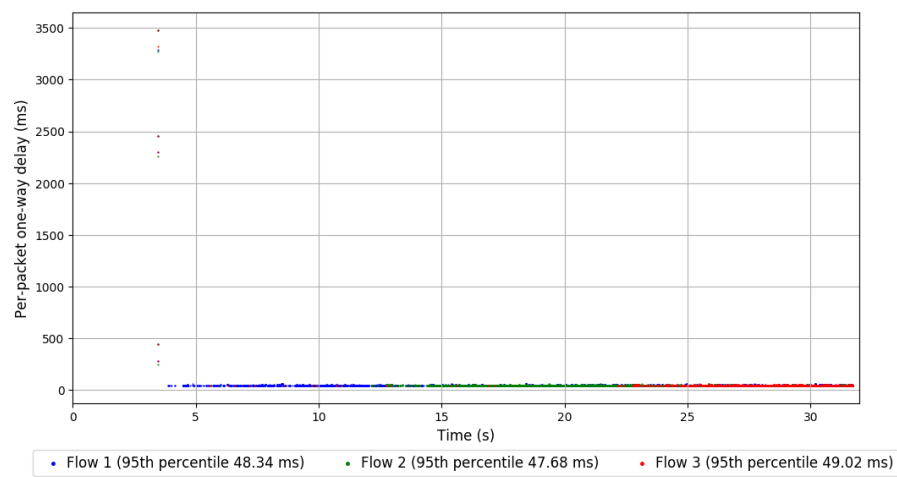
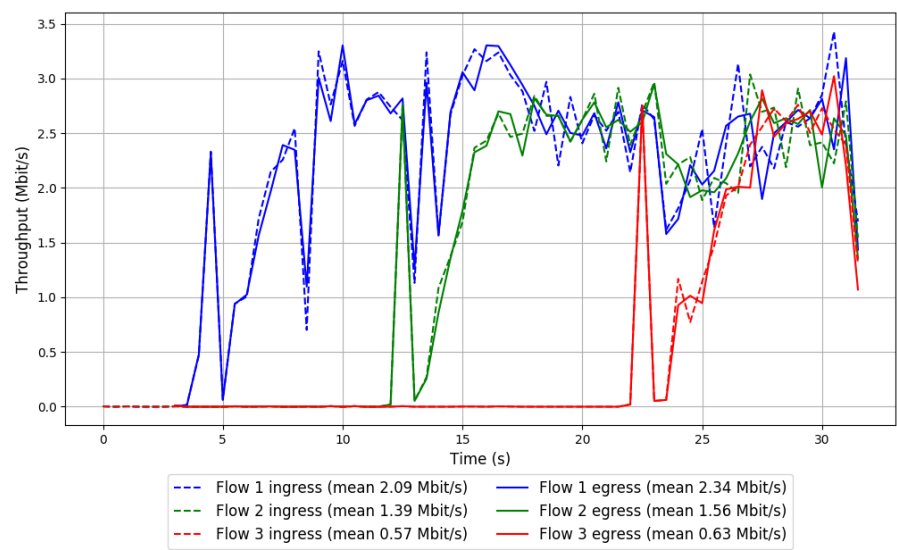


Run 5: Statistics of WebRTC media

Start at: 2017-12-01 08:47:22
End at: 2017-12-01 08:47:52
Local clock offset: 3.557 ms
Remote clock offset: -4.473 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 48.269 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 48.338 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 47.683 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 49.021 ms
Loss rate: 1.24%

Run 5: Report of WebRTC media — Data Link

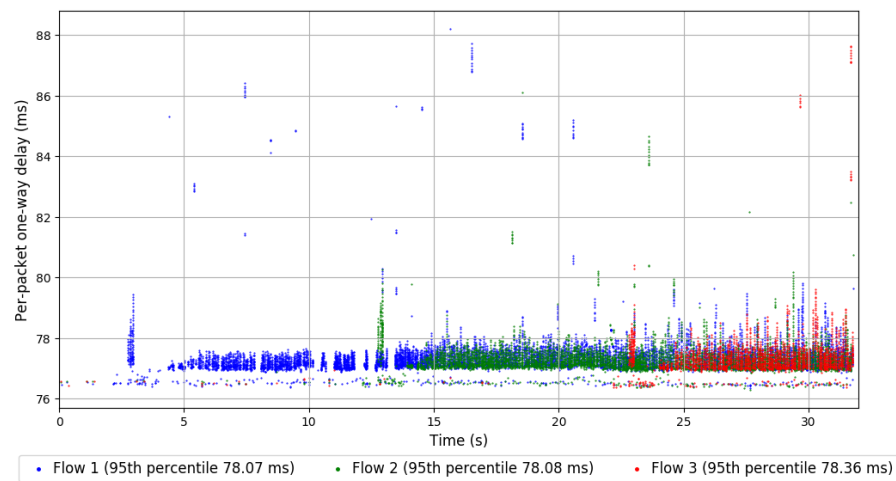
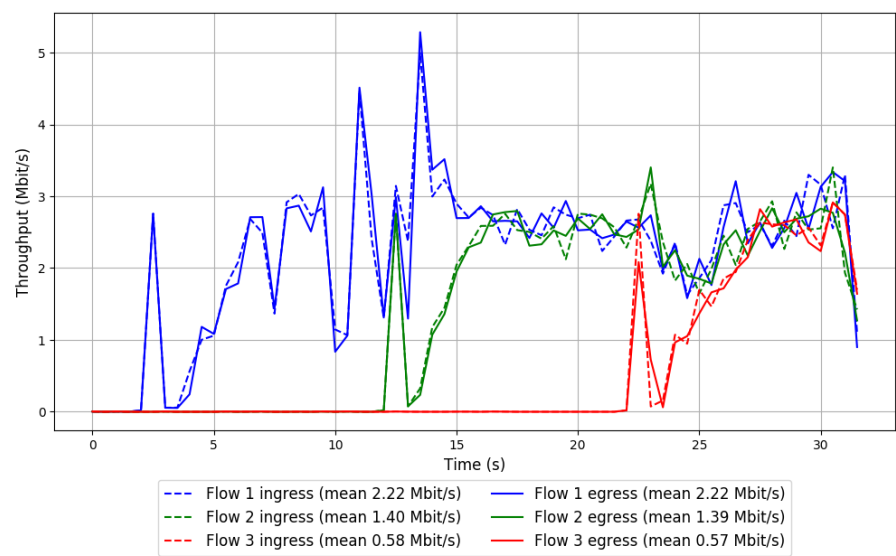


Run 6: Statistics of WebRTC media

Start at: 2017-12-01 09:04:47
End at: 2017-12-01 09:05:17
Local clock offset: 3.314 ms
Remote clock offset: -37.417 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 78.128 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 78.072 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 78.076 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 78.364 ms
Loss rate: 1.40%

Run 6: Report of WebRTC media — Data Link

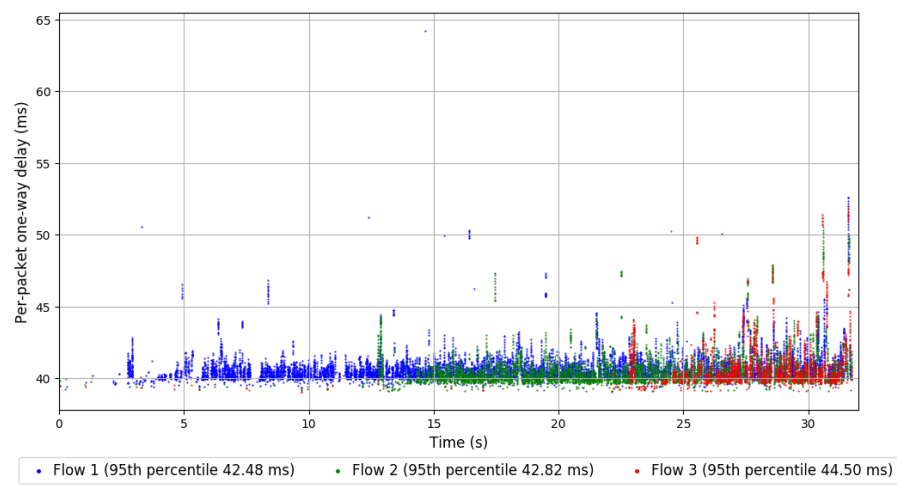
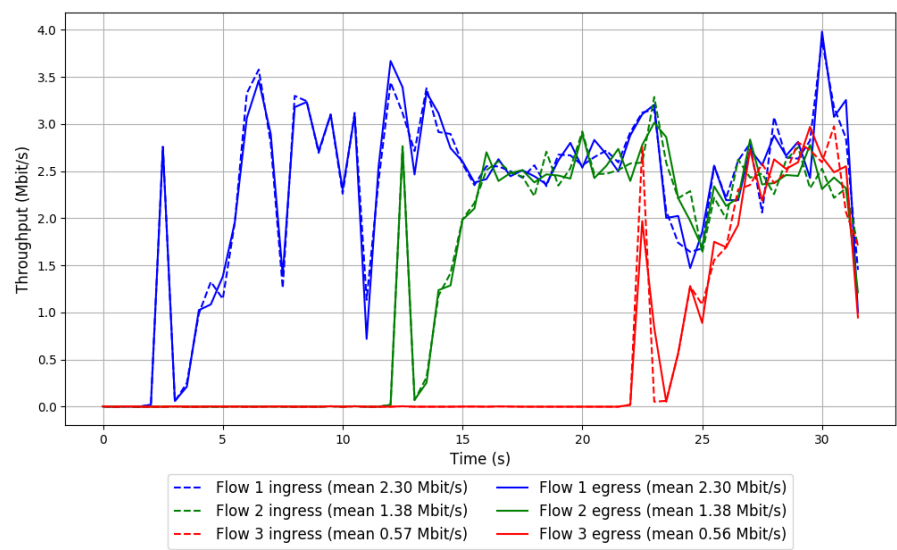


Run 7: Statistics of WebRTC media

Start at: 2017-12-01 09:22:30
End at: 2017-12-01 09:23:00
Local clock offset: 3.047 ms
Remote clock offset: -1.095 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 42.893 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 42.484 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 42.823 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 44.497 ms
Loss rate: 2.13%

Run 7: Report of WebRTC media — Data Link

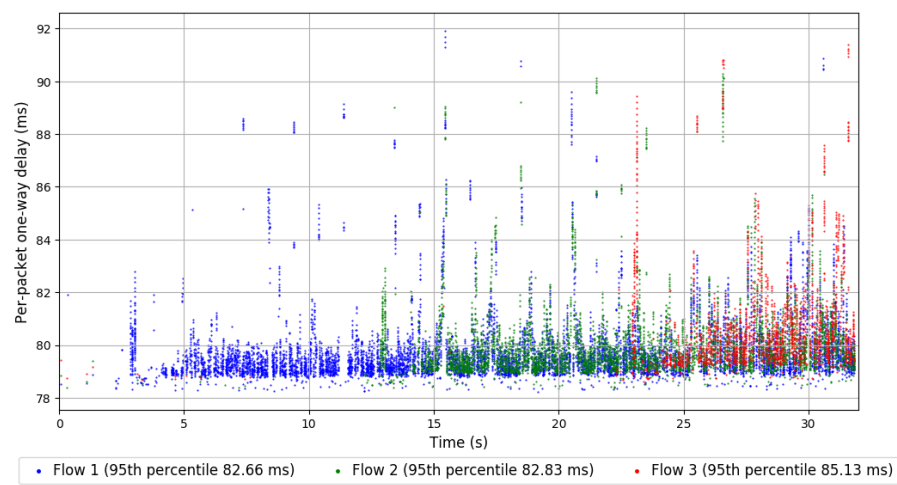
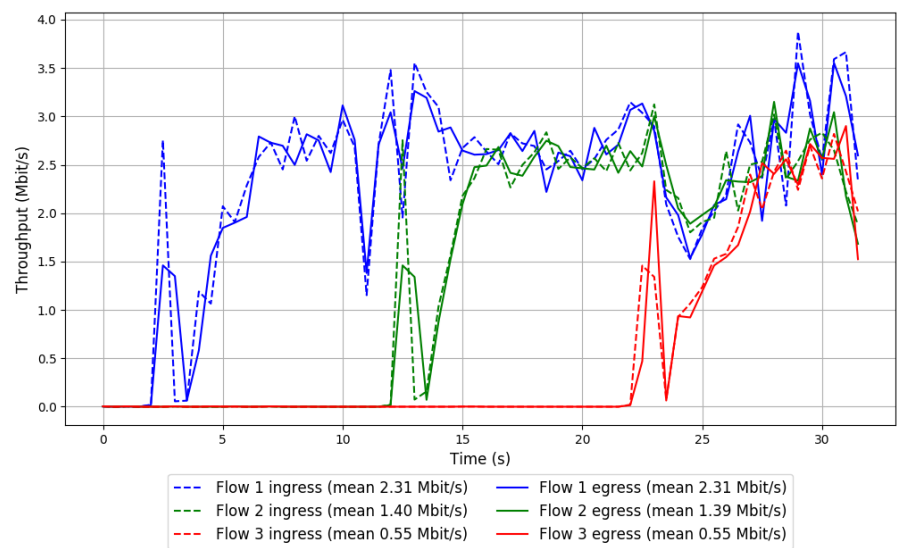


Run 8: Statistics of WebRTC media

Start at: 2017-12-01 09:42:33
End at: 2017-12-01 09:43:03
Local clock offset: 2.834 ms
Remote clock offset: -40.84 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 83.270 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 82.656 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 82.831 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 85.133 ms
Loss rate: 1.42%

Run 8: Report of WebRTC media — Data Link

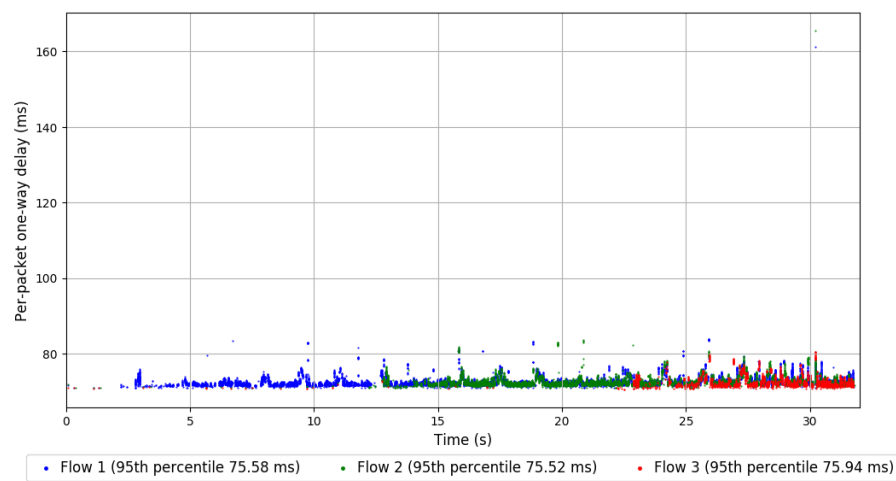
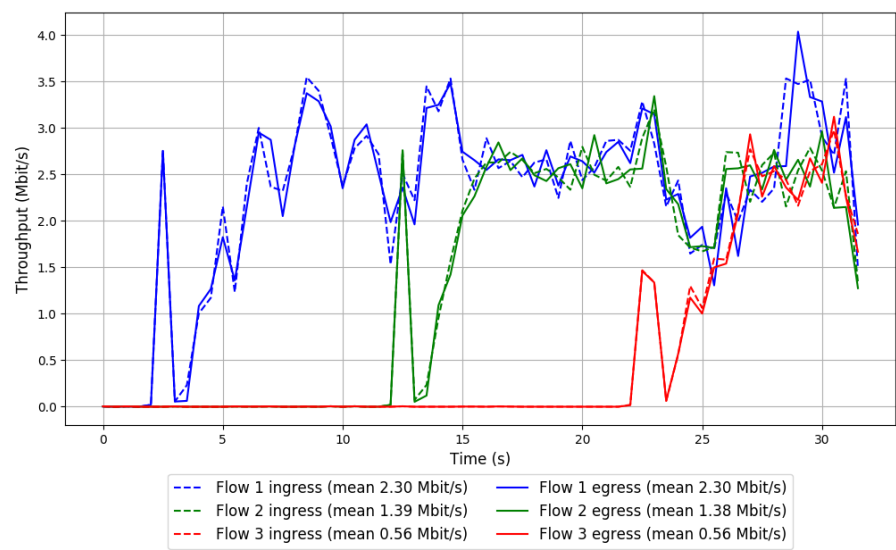


Run 9: Statistics of WebRTC media

Start at: 2017-12-01 09:59:42
End at: 2017-12-01 10:00:12
Local clock offset: 2.989 ms
Remote clock offset: -32.207 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 75.615 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 75.580 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 75.520 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 75.940 ms
Loss rate: 1.47%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-01 10:17:05

End at: 2017-12-01 10:17:35

Local clock offset: 3.091 ms

Remote clock offset: -34.7 ms

Below is generated by plot.py at 2017-12-01 13:31:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 79.544 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 79.798 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 79.081 ms

Loss rate: 0.51%

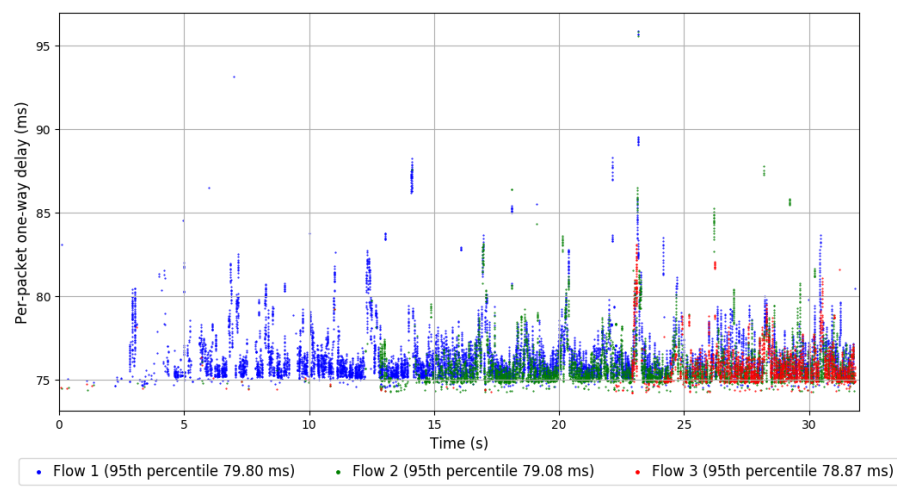
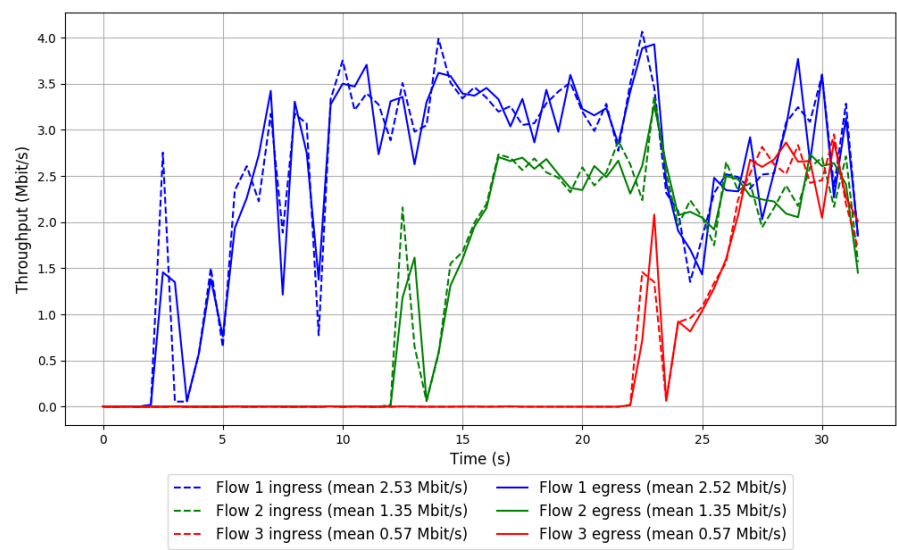
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 78.871 ms

Loss rate: 0.32%

Run 10: Report of WebRTC media — Data Link

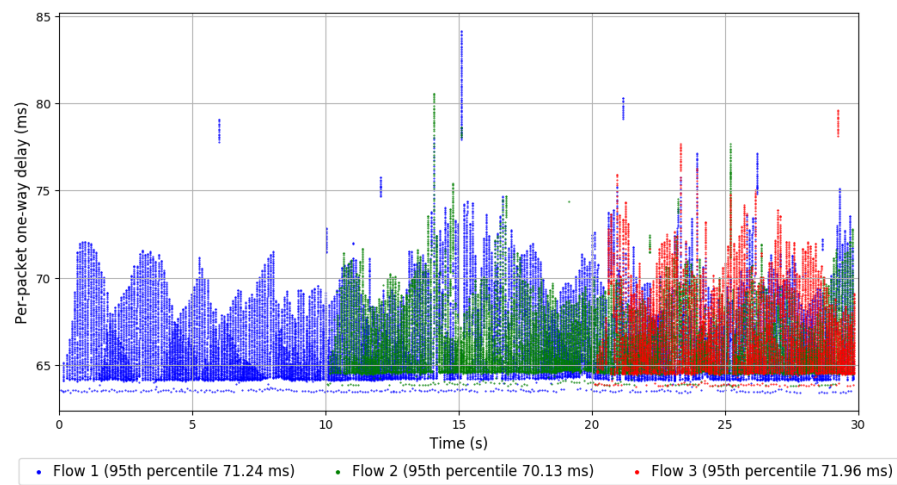
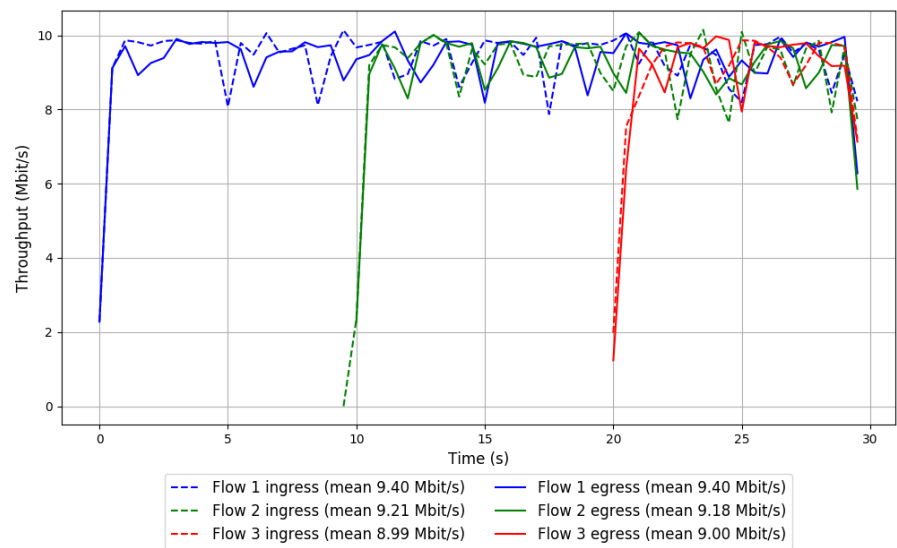


Run 1: Statistics of Sprout

Start at: 2017-12-01 07:31:44
End at: 2017-12-01 07:32:14
Local clock offset: 3.418 ms
Remote clock offset: -25.289 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.44 Mbit/s
95th percentile per-packet one-way delay: 71.148 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 71.236 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 70.128 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 71.963 ms
Loss rate: 0.90%

Run 1: Report of Sprout — Data Link

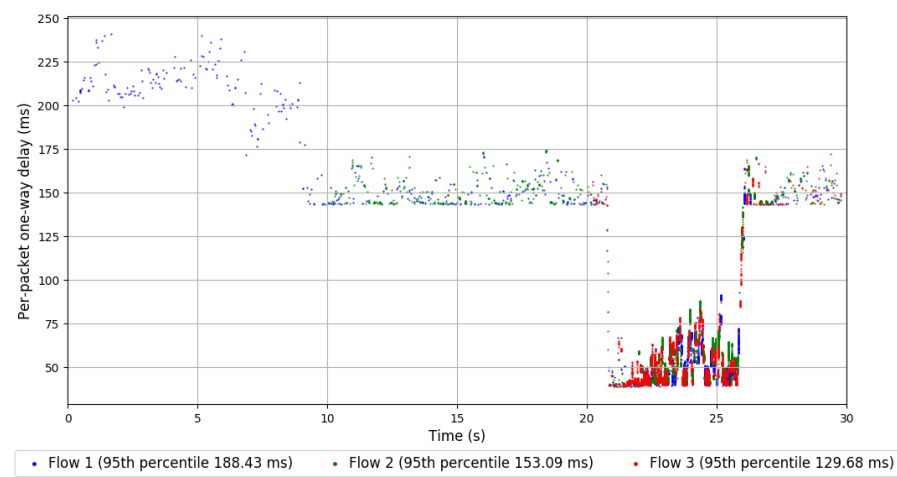
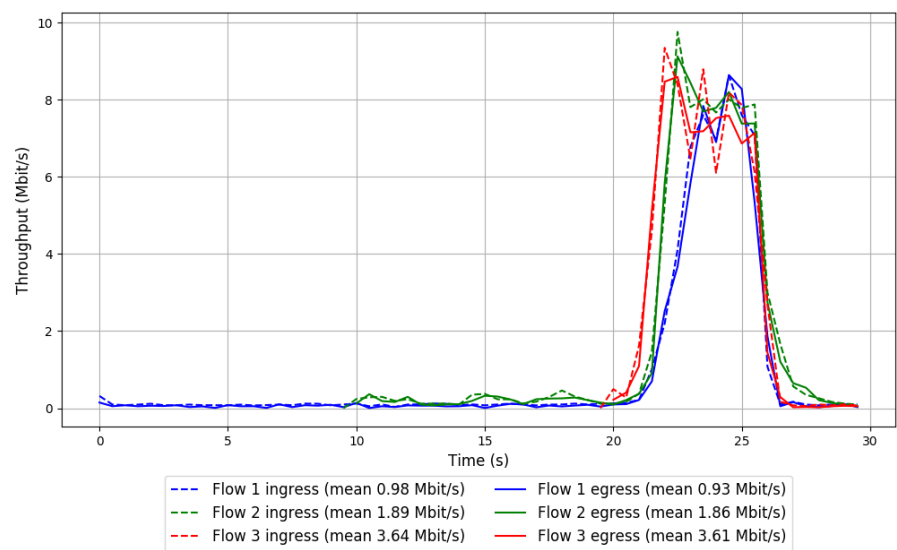


Run 2: Statistics of Sprout

Start at: 2017-12-01 07:51:01
End at: 2017-12-01 07:51:31
Local clock offset: 4.191 ms
Remote clock offset: 0.76 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 152.254 ms
Loss rate: 3.71%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 188.432 ms
Loss rate: 5.66%
-- Flow 2:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 153.088 ms
Loss rate: 2.69%
-- Flow 3:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 129.675 ms
Loss rate: 3.19%

Run 2: Report of Sprout — Data Link

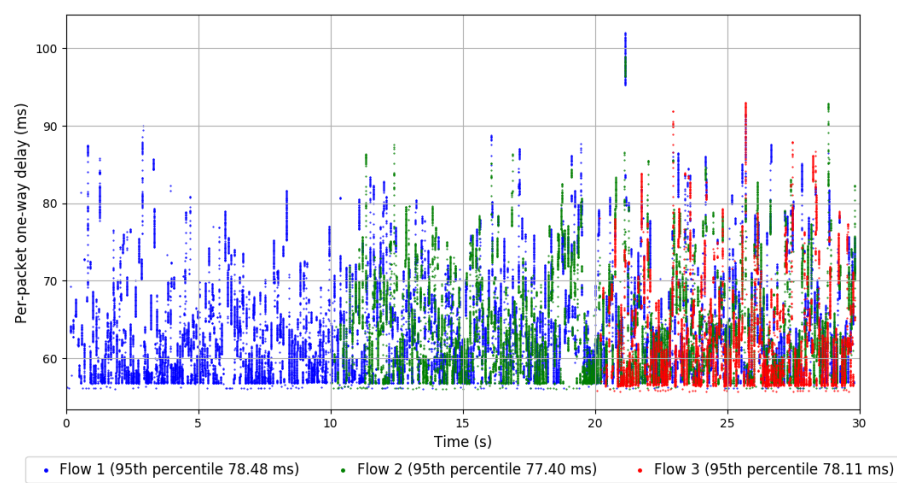
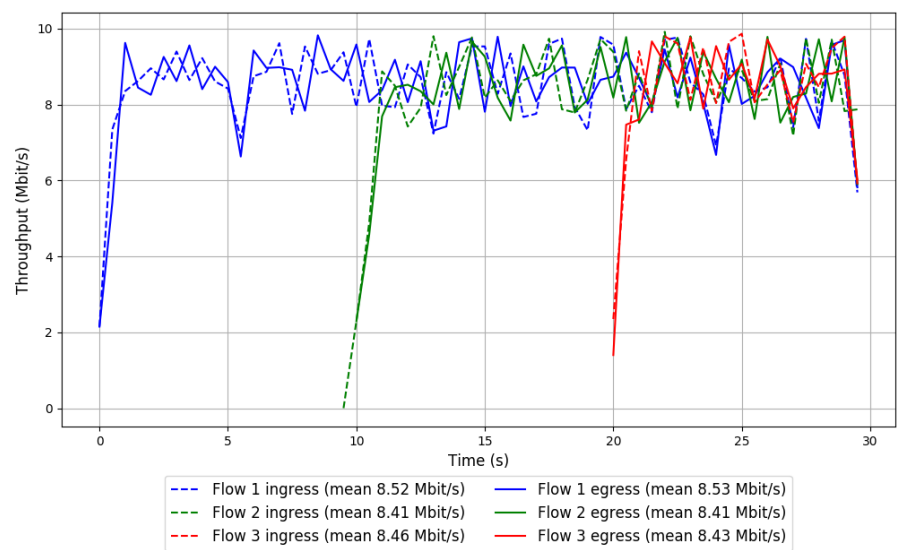


Run 3: Statistics of Sprout

Start at: 2017-12-01 08:12:31
End at: 2017-12-01 08:13:01
Local clock offset: 4.329 ms
Remote clock offset: -16.074 ms

```
# Below is generated by plot.py at 2017-12-01 13:31:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.87 Mbit/s
95th percentile per-packet one-way delay: 77.984 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 78.481 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 77.398 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 78.106 ms
Loss rate: 1.15%
```


Run 3: Report of Sprout — Data Link

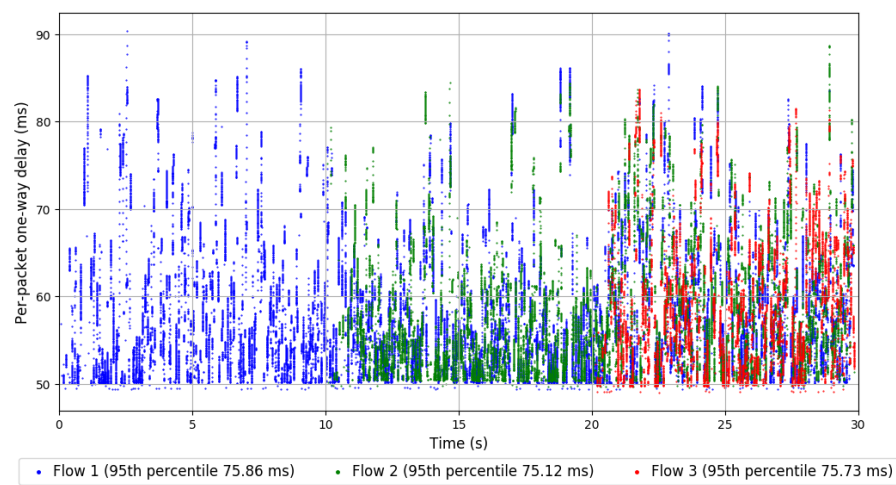
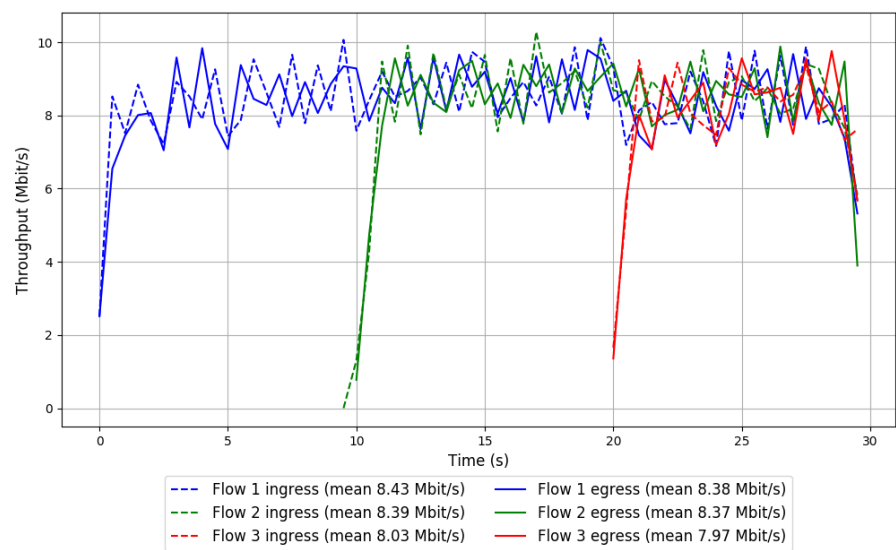


Run 4: Statistics of Sprout

Start at: 2017-12-01 08:30:55
End at: 2017-12-01 08:31:25
Local clock offset: 3.806 ms
Remote clock offset: -9.306 ms

```
# Below is generated by plot.py at 2017-12-01 13:31:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.54 Mbit/s
95th percentile per-packet one-way delay: 75.616 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 75.864 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 75.117 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 75.735 ms
Loss rate: 1.79%
```

Run 4: Report of Sprout — Data Link

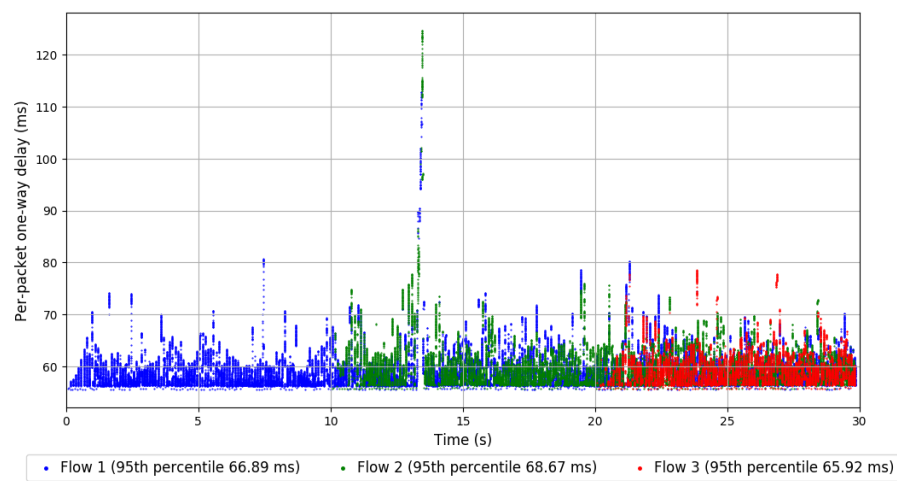
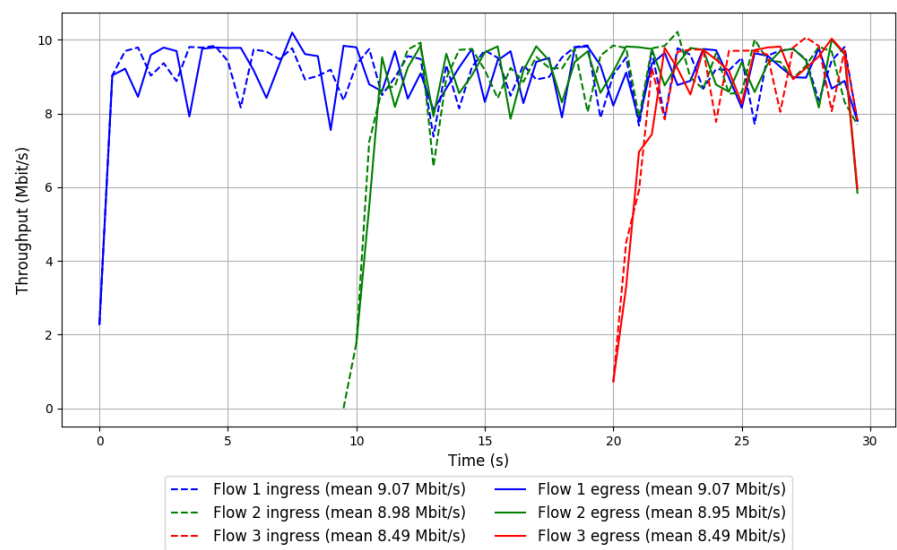


Run 5: Statistics of Sprout

Start at: 2017-12-01 08:48:33
End at: 2017-12-01 08:49:03
Local clock offset: 3.6 ms
Remote clock offset: -15.549 ms

Below is generated by plot.py at 2017-12-01 13:31:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 67.295 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 66.885 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 68.667 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 65.923 ms
Loss rate: 1.16%

Run 5: Report of Sprout — Data Link

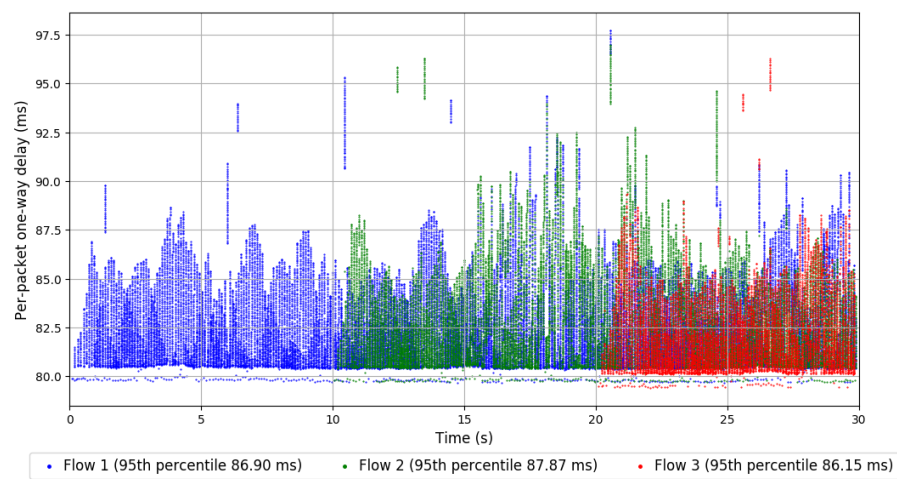
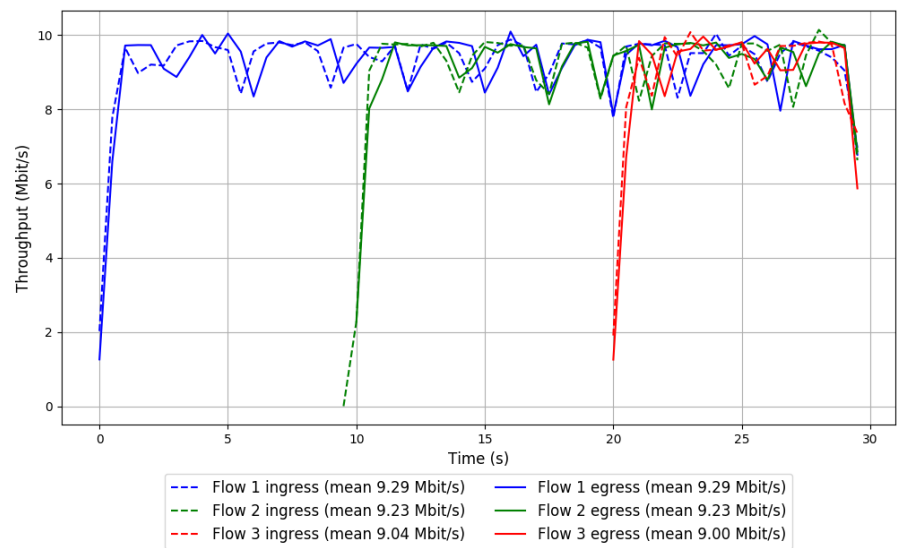


Run 6: Statistics of Sprout

Start at: 2017-12-01 09:05:58
End at: 2017-12-01 09:06:28
Local clock offset: 3.379 ms
Remote clock offset: -41.075 ms

```
# Below is generated by plot.py at 2017-12-01 13:31:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.37 Mbit/s
95th percentile per-packet one-way delay: 87.103 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 86.902 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 87.869 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 86.146 ms
Loss rate: 1.11%
```

Run 6: Report of Sprout — Data Link

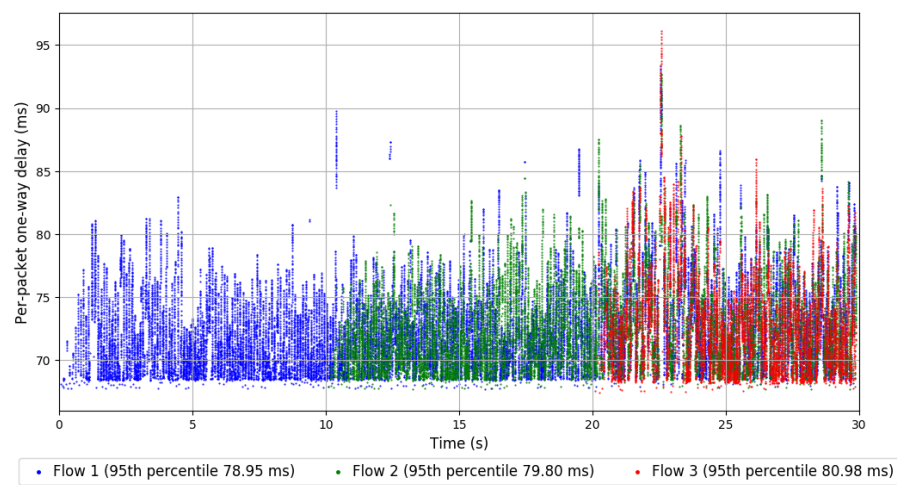
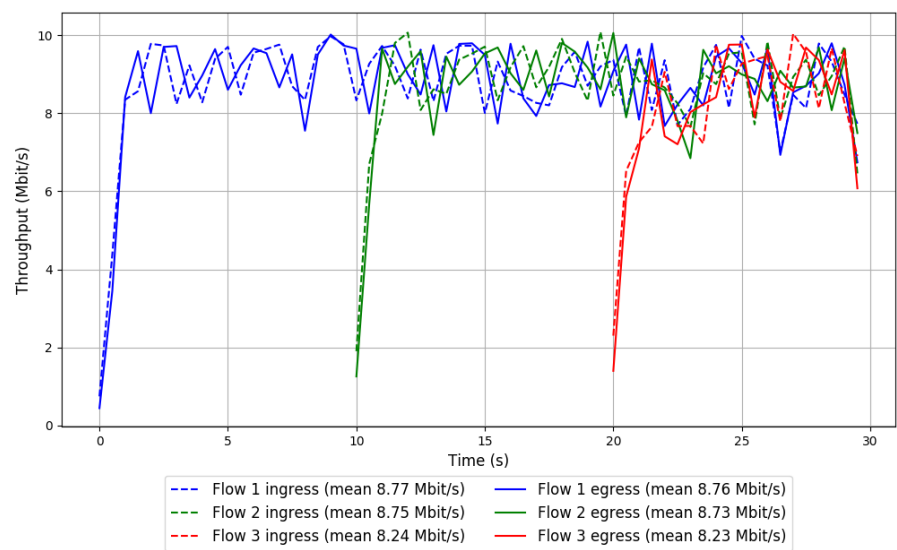


Run 7: Statistics of Sprout

Start at: 2017-12-01 09:23:43
End at: 2017-12-01 09:24:13
Local clock offset: 3.102 ms
Remote clock offset: -29.729 ms

Below is generated by plot.py at 2017-12-01 13:31:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.24 Mbit/s
95th percentile per-packet one-way delay: 79.585 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 78.951 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 79.796 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 80.983 ms
Loss rate: 0.95%

Run 7: Report of Sprout — Data Link

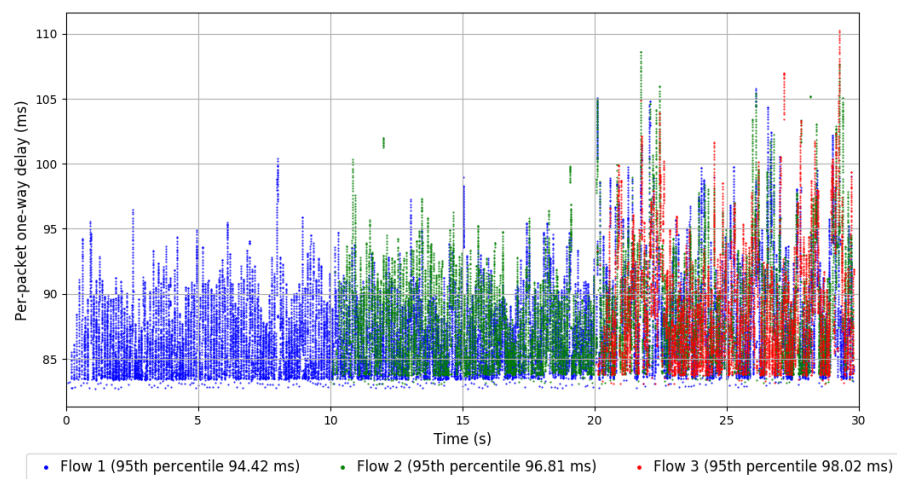
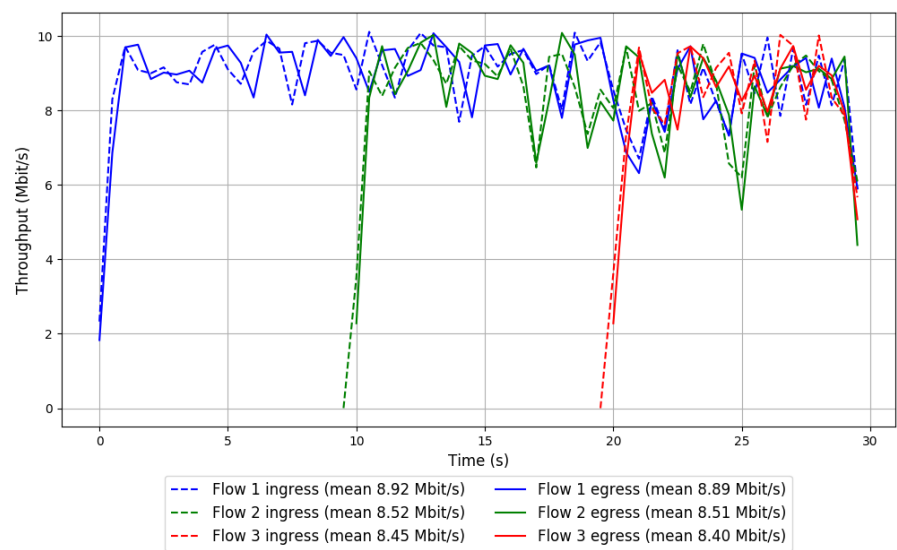


Run 8: Statistics of Sprout

Start at: 2017-12-01 09:43:44
End at: 2017-12-01 09:44:14
Local clock offset: 2.781 ms
Remote clock offset: -45.488 ms

```
# Below is generated by plot.py at 2017-12-01 13:31:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.31 Mbit/s
95th percentile per-packet one-way delay: 96.040 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 8.89 Mbit/s
95th percentile per-packet one-way delay: 94.424 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 96.807 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 98.019 ms
Loss rate: 1.56%
```

Run 8: Report of Sprout — Data Link

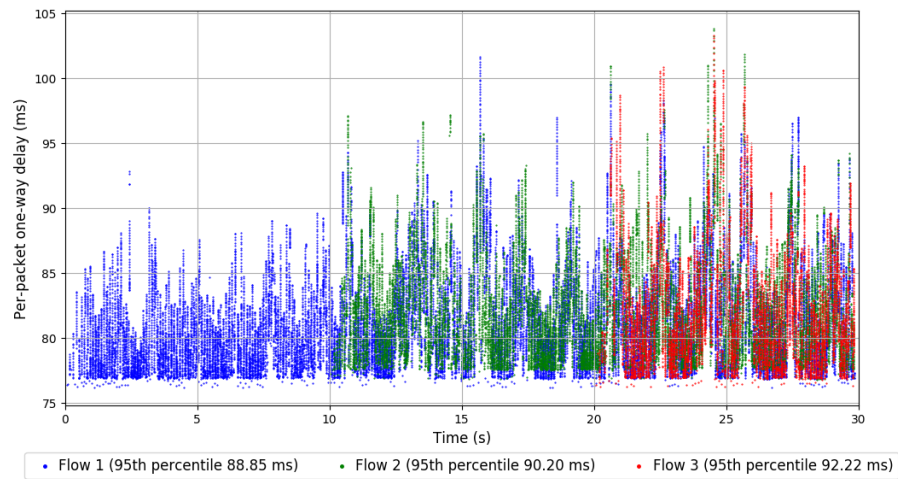
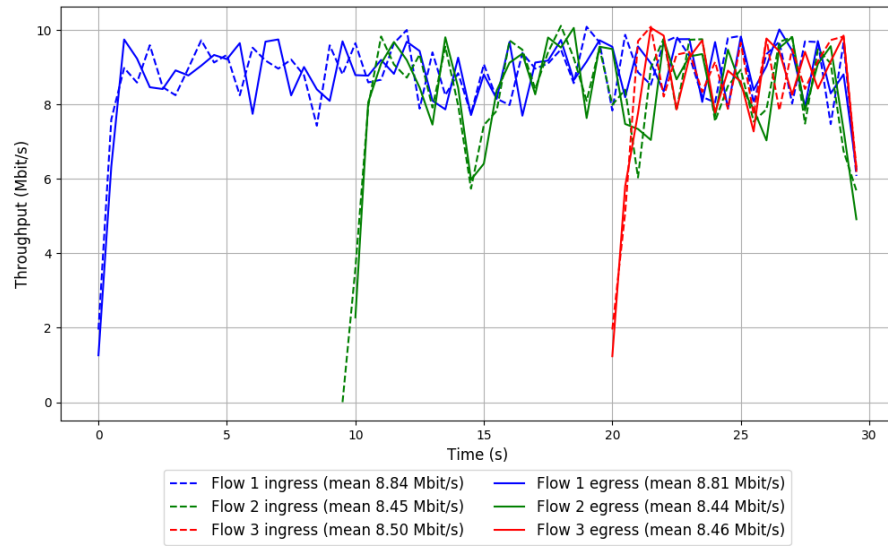


Run 9: Statistics of Sprout

Start at: 2017-12-01 10:00:53
End at: 2017-12-01 10:01:23
Local clock offset: 3.131 ms
Remote clock offset: -37.582 ms

Below is generated by plot.py at 2017-12-01 13:31:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.19 Mbit/s
95th percentile per-packet one-way delay: 89.920 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 88.849 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 90.200 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 92.217 ms
Loss rate: 1.44%

Run 9: Report of Sprout — Data Link

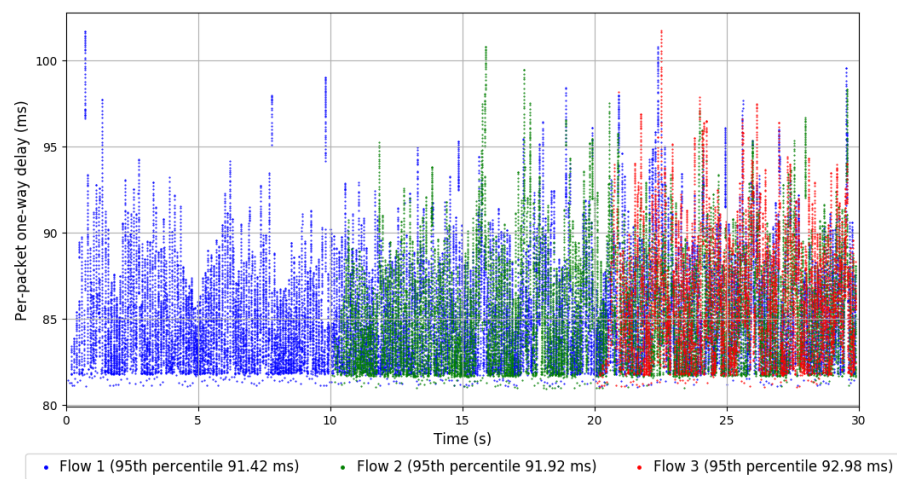
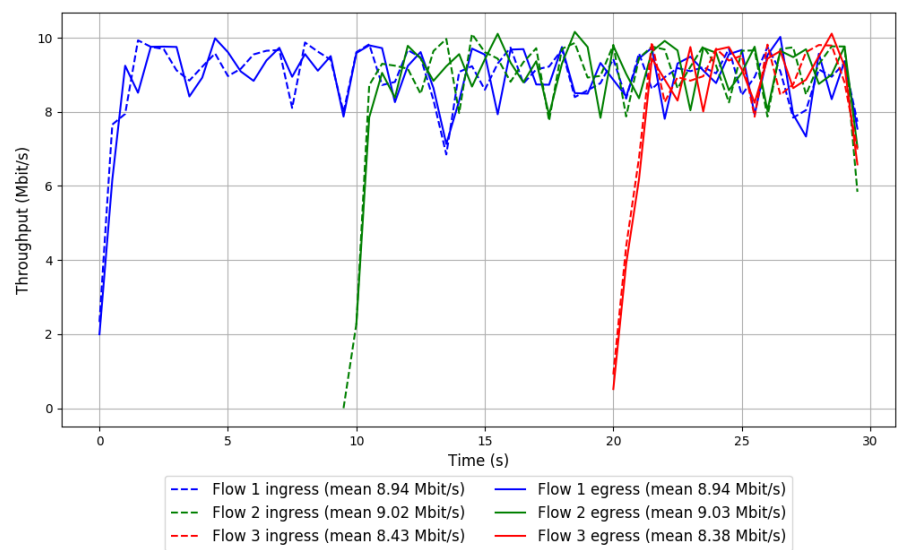


Run 10: Statistics of Sprout

Start at: 2017-12-01 10:18:16
End at: 2017-12-01 10:18:46
Local clock offset: 3.11 ms
Remote clock offset: -41.467 ms

Below is generated by plot.py at 2017-12-01 13:31:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.68 Mbit/s
95th percentile per-packet one-way delay: 91.924 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 91.417 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 91.922 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 92.979 ms
Loss rate: 0.96%

Run 10: Report of Sprout — Data Link

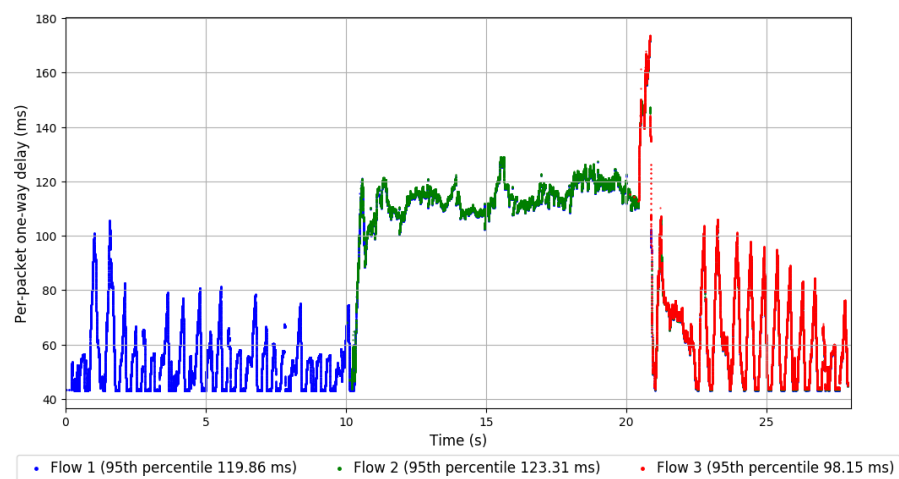
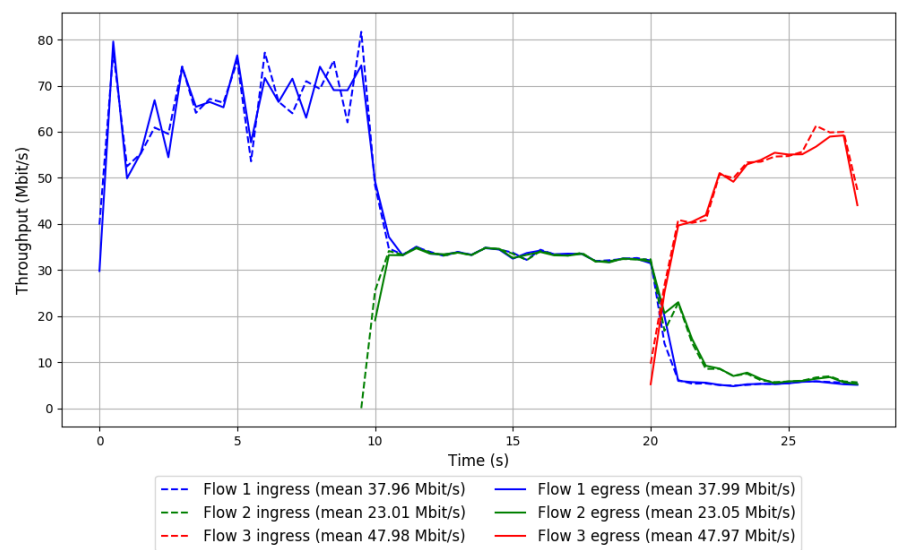


Run 1: Statistics of TaoVA-100x

Start at: 2017-12-01 07:17:30
End at: 2017-12-01 07:18:00
Local clock offset: 3.026 ms
Remote clock offset: -4.998 ms

Below is generated by plot.py at 2017-12-01 13:32:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.12 Mbit/s
95th percentile per-packet one-way delay: 120.953 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 119.858 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 123.306 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 47.97 Mbit/s
95th percentile per-packet one-way delay: 98.147 ms
Loss rate: 2.02%

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

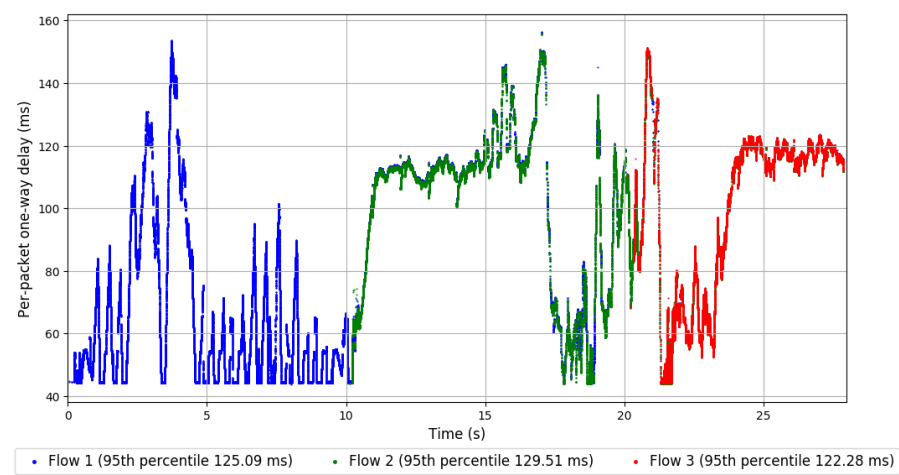
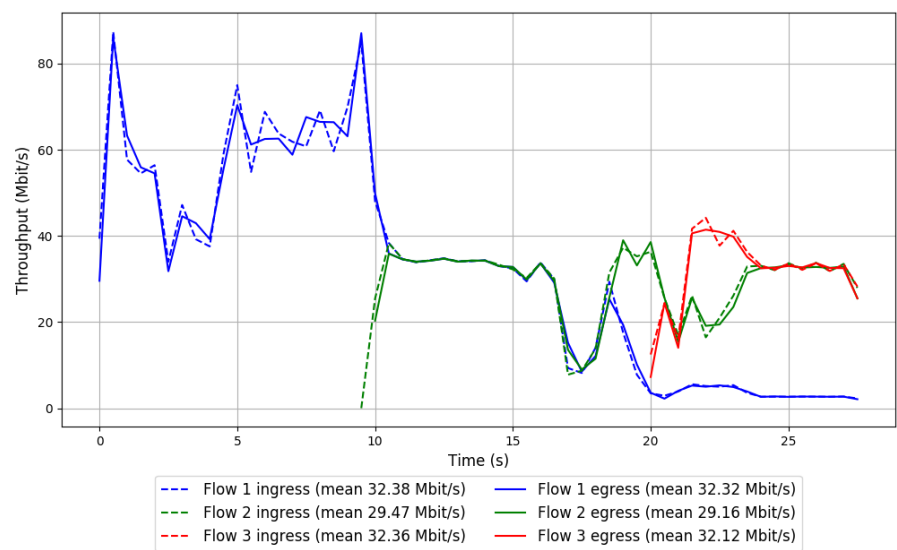


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-01 07:35:38
End at: 2017-12-01 07:36:08
Local clock offset: 3.577 ms
Remote clock offset: -5.075 ms

Below is generated by plot.py at 2017-12-01 13:32:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.96 Mbit/s
95th percentile per-packet one-way delay: 126.264 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 125.093 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 129.510 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 122.281 ms
Loss rate: 2.63%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-01 07:55:40

End at: 2017-12-01 07:56:10

Local clock offset: 4.445 ms

Remote clock offset: 0.623 ms

Below is generated by plot.py at 2017-12-01 13:32:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 156.512 ms

Loss rate: 13.34%

-- Flow 1:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 159.361 ms

Loss rate: 11.40%

-- Flow 2:

Average throughput: 6.05 Mbit/s

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

Loss rate: 20.41%

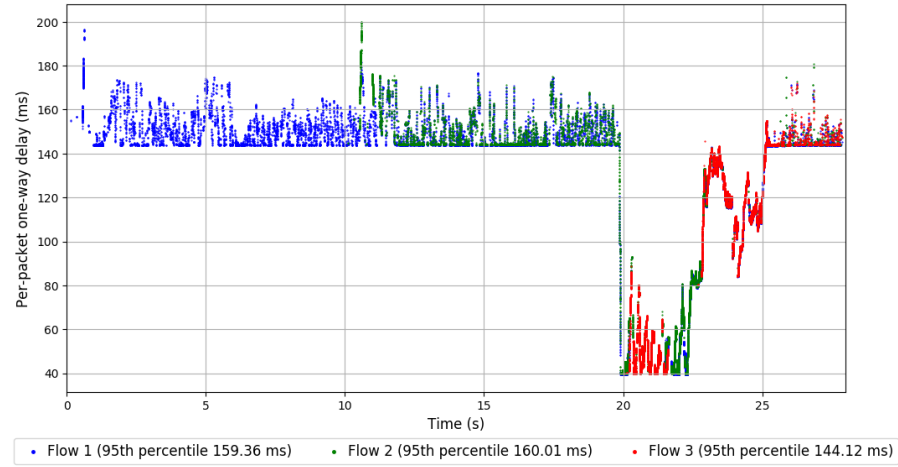
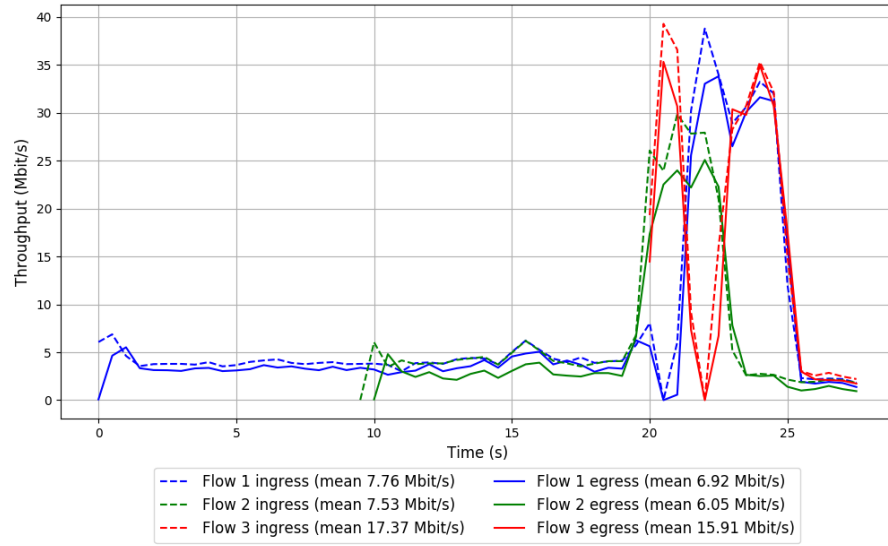
-- Flow 3:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 144.120 ms

Loss rate: 9.44%

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

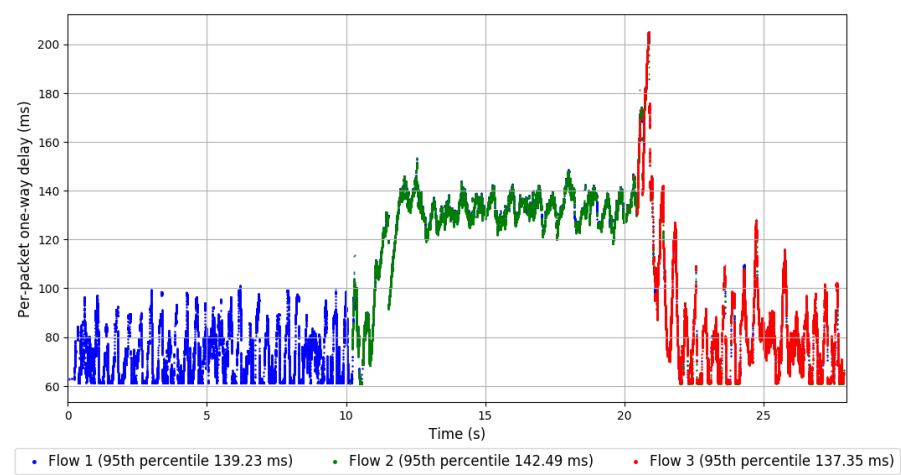
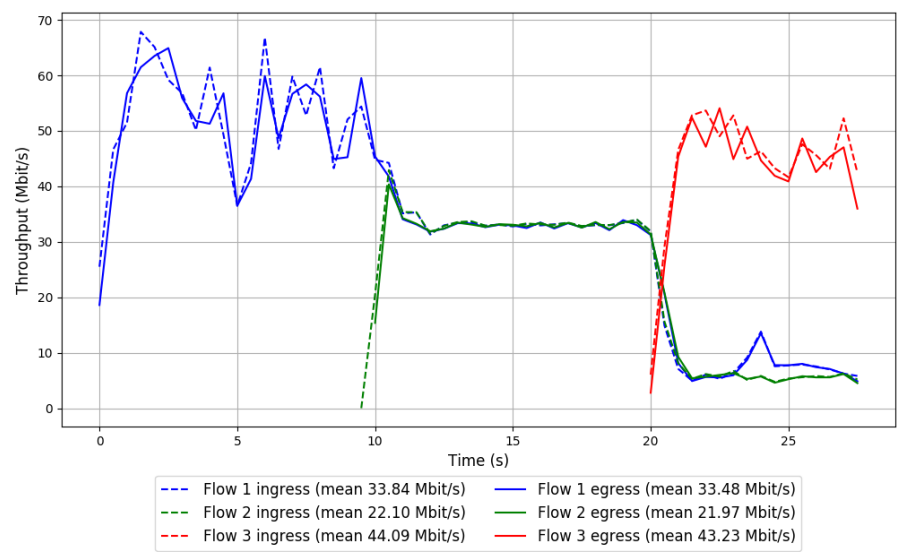


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-01 08:16:14
End at: 2017-12-01 08:16:44
Local clock offset: 4.367 ms
Remote clock offset: -20.645 ms

Below is generated by plot.py at 2017-12-01 13:32:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 140.115 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 139.232 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 21.97 Mbit/s
95th percentile per-packet one-way delay: 142.485 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 137.348 ms
Loss rate: 3.92%

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

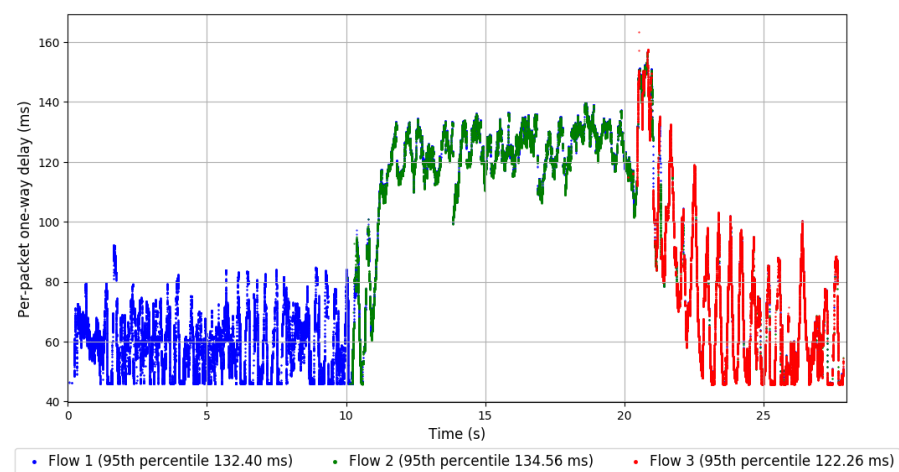
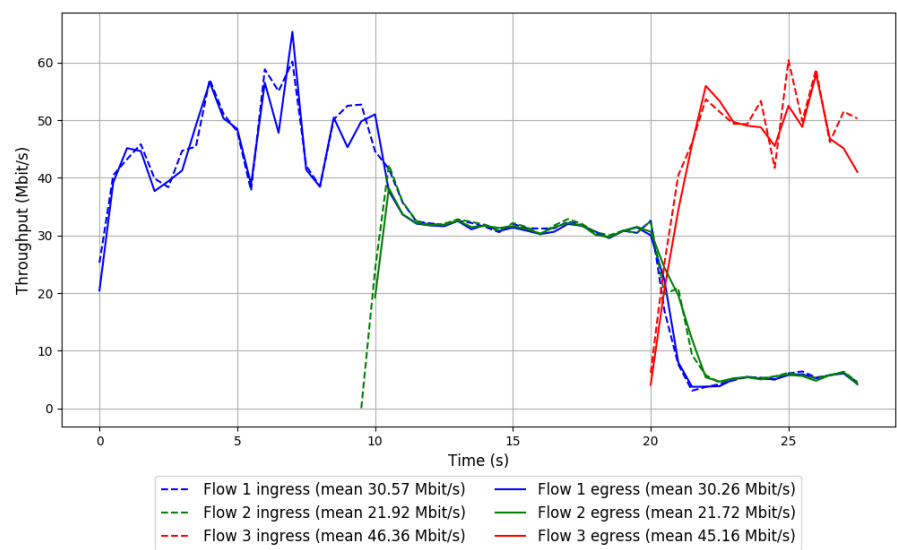


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-01 08:34:36
End at: 2017-12-01 08:35:06
Local clock offset: 3.804 ms
Remote clock offset: -5.053 ms

Below is generated by plot.py at 2017-12-01 13:32:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.73 Mbit/s
95th percentile per-packet one-way delay: 132.856 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 132.398 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 134.557 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 45.16 Mbit/s
95th percentile per-packet one-way delay: 122.256 ms
Loss rate: 4.67%

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

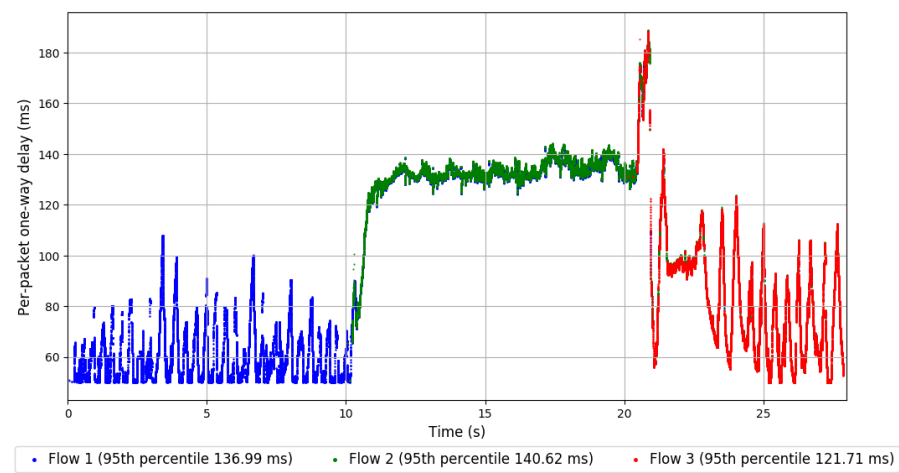
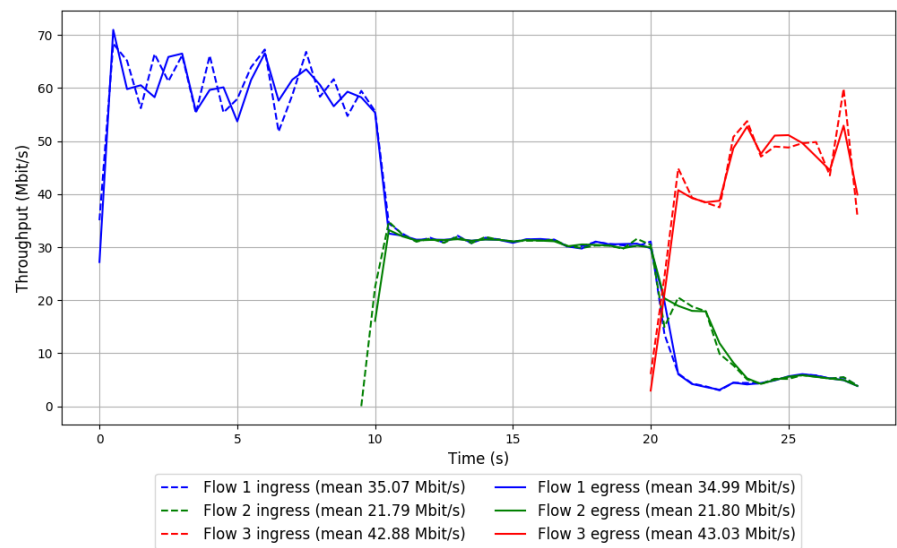


Run 6: Statistics of TaoVA-100x

Start at: 2017-12-01 08:52:14
End at: 2017-12-01 08:52:44
Local clock offset: 3.661 ms
Remote clock offset: -9.924 ms

Below is generated by plot.py at 2017-12-01 13:32:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 138.252 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: 136.987 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 21.80 Mbit/s
95th percentile per-packet one-way delay: 140.616 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 43.03 Mbit/s
95th percentile per-packet one-way delay: 121.706 ms
Loss rate: 1.77%

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

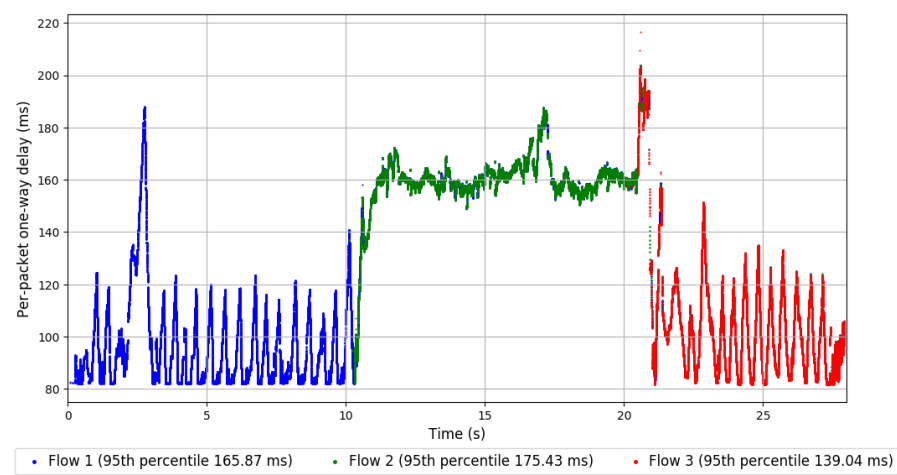
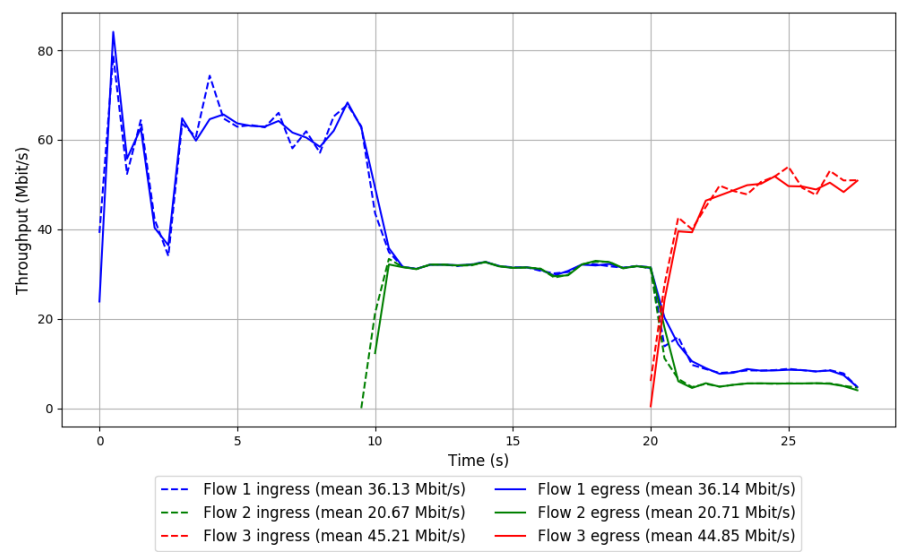


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-01 09:09:38
End at: 2017-12-01 09:10:08
Local clock offset: 3.107 ms
Remote clock offset: -43.216 ms

Below is generated by plot.py at 2017-12-01 13:33:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.88 Mbit/s
95th percentile per-packet one-way delay: 167.317 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 165.873 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 175.429 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 44.85 Mbit/s
95th percentile per-packet one-way delay: 139.044 ms
Loss rate: 2.80%

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

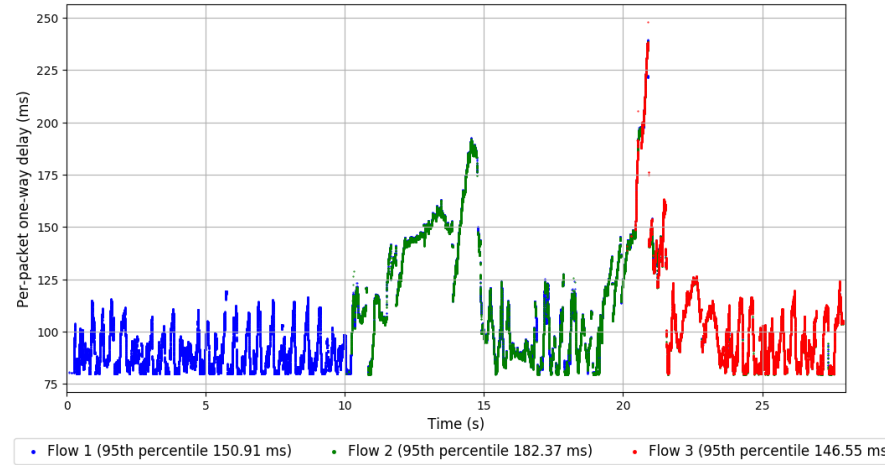
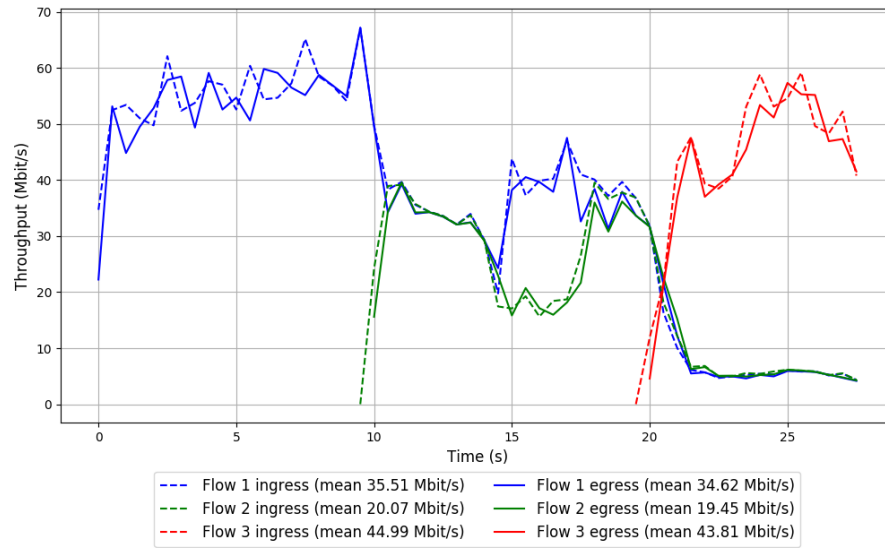


Run 8: Statistics of TaoVA-100x

Start at: 2017-12-01 09:27:25
End at: 2017-12-01 09:27:55
Local clock offset: 3.062 ms
Remote clock offset: -41.42 ms

Below is generated by plot.py at 2017-12-01 13:33:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.33 Mbit/s
95th percentile per-packet one-way delay: 155.613 ms
Loss rate: 3.31%
-- Flow 1:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 150.909 ms
Loss rate: 2.81%
-- Flow 2:
Average throughput: 19.45 Mbit/s
95th percentile per-packet one-way delay: 182.374 ms
Loss rate: 3.59%
-- Flow 3:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 146.553 ms
Loss rate: 4.43%

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

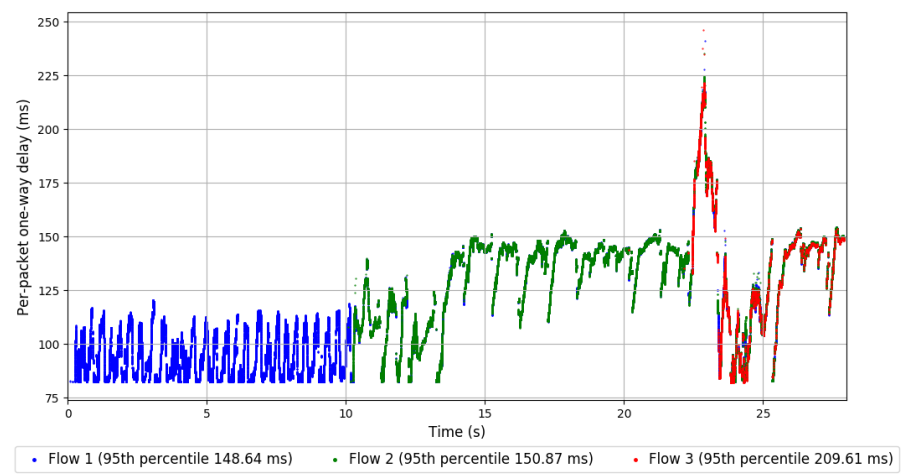
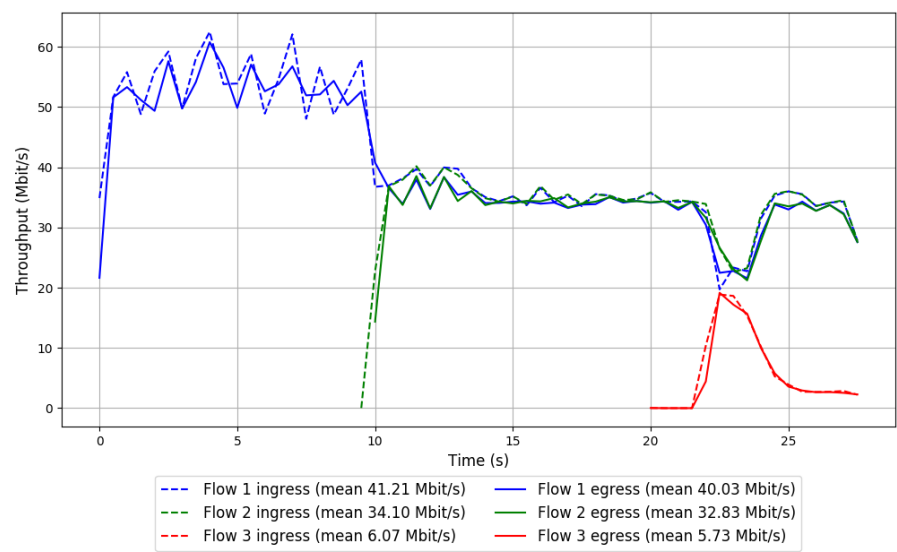


Run 9: Statistics of TaoVA-100x

Start at: 2017-12-01 09:47:23
End at: 2017-12-01 09:47:53
Local clock offset: 2.848 ms
Remote clock offset: -43.558 ms

Below is generated by plot.py at 2017-12-01 13:33:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.66 Mbit/s
95th percentile per-packet one-way delay: 149.936 ms
Loss rate: 3.67%
-- Flow 1:
Average throughput: 40.03 Mbit/s
95th percentile per-packet one-way delay: 148.642 ms
Loss rate: 3.18%
-- Flow 2:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 150.872 ms
Loss rate: 4.31%
-- Flow 3:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 209.611 ms
Loss rate: 7.27%

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

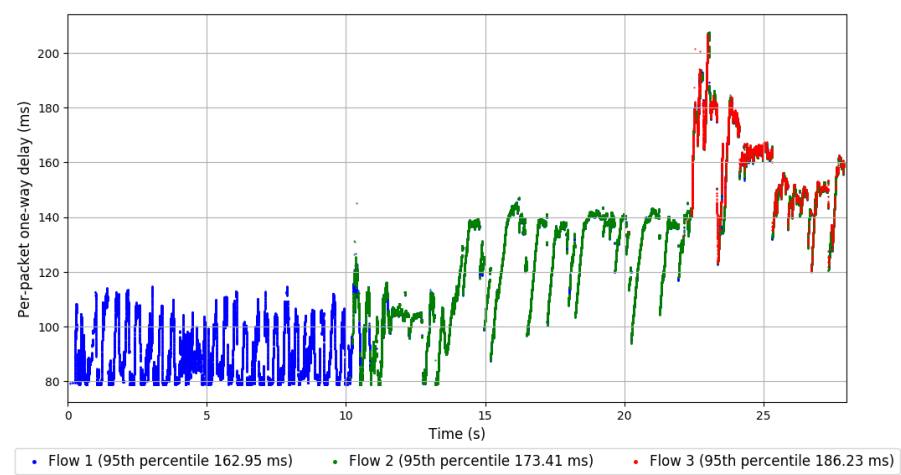
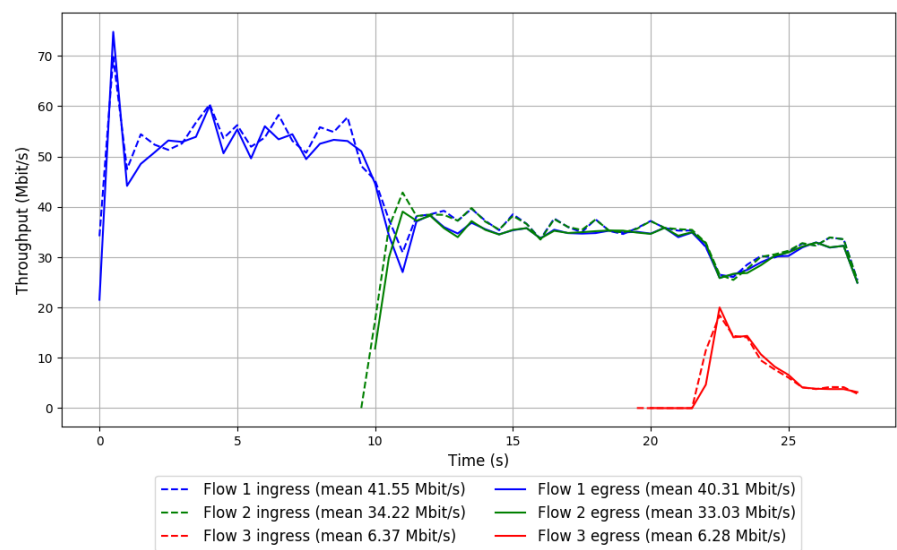


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-01 10:04:33
End at: 2017-12-01 10:05:03
Local clock offset: 2.874 ms
Remote clock offset: -39.799 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 167.323 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 162.952 ms
Loss rate: 3.29%
-- Flow 2:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 173.406 ms
Loss rate: 3.95%
-- Flow 3:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 186.231 ms
Loss rate: 3.29%

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

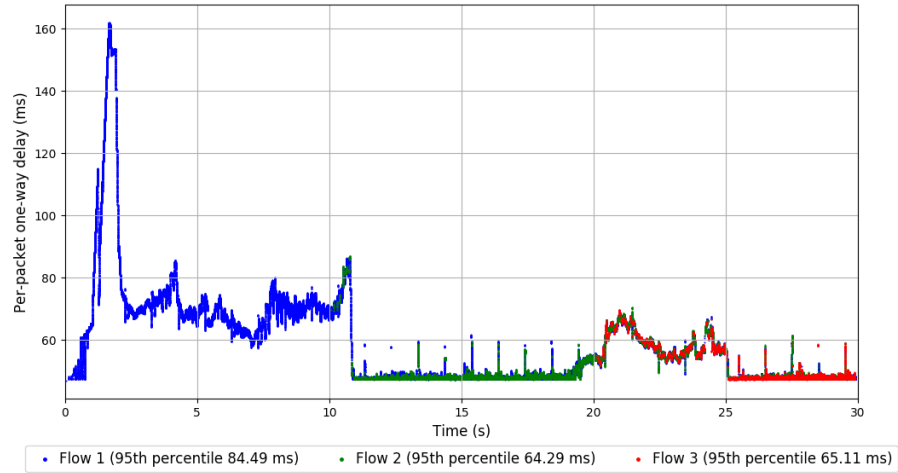
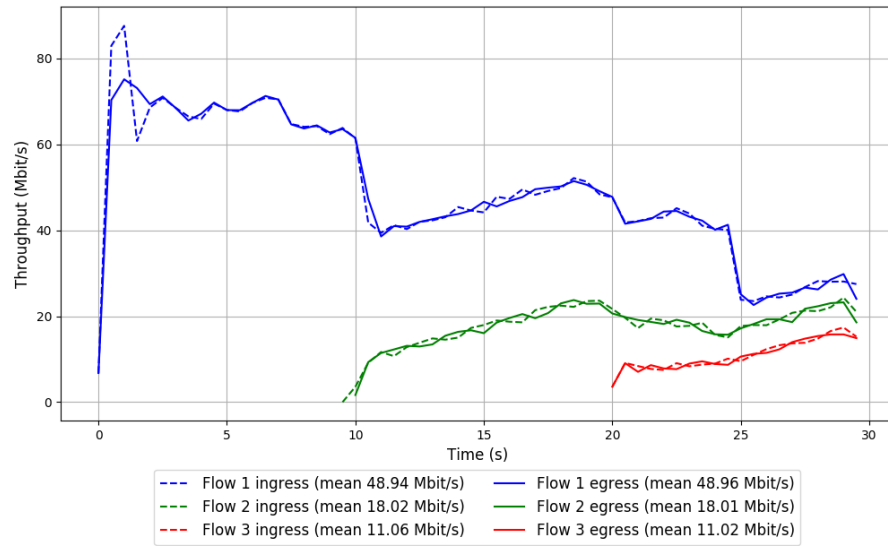


Run 1: Statistics of TCP Vegas

Start at: 2017-12-01 07:25:30
End at: 2017-12-01 07:26:00
Local clock offset: 3.298 ms
Remote clock offset: -8.333 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.53 Mbit/s
95th percentile per-packet one-way delay: 80.310 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 48.96 Mbit/s
95th percentile per-packet one-way delay: 84.489 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 18.01 Mbit/s
95th percentile per-packet one-way delay: 64.289 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 65.105 ms
Loss rate: 1.41%

Run 1: Report of TCP Vegas — Data Link

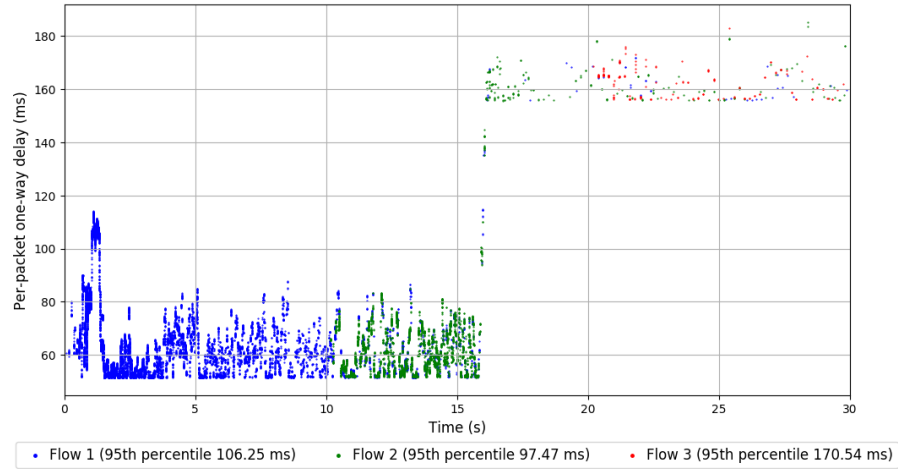
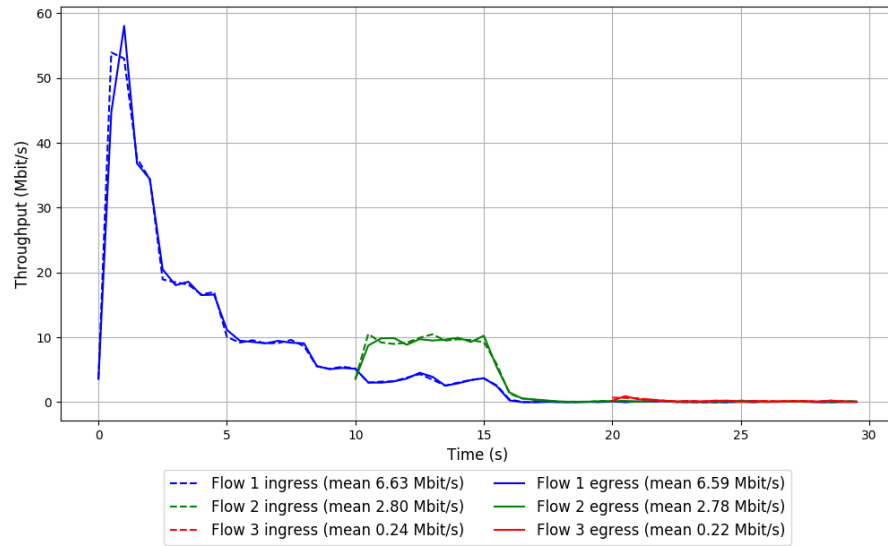


Run 2: Statistics of TCP Vegas

Start at: 2017-12-01 07:43:10
End at: 2017-12-01 07:43:40
Local clock offset: 3.816 ms
Remote clock offset: -11.859 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 106.808 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 106.252 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 97.474 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 170.537 ms
Loss rate: 12.20%

Run 2: Report of TCP Vegas — Data Link

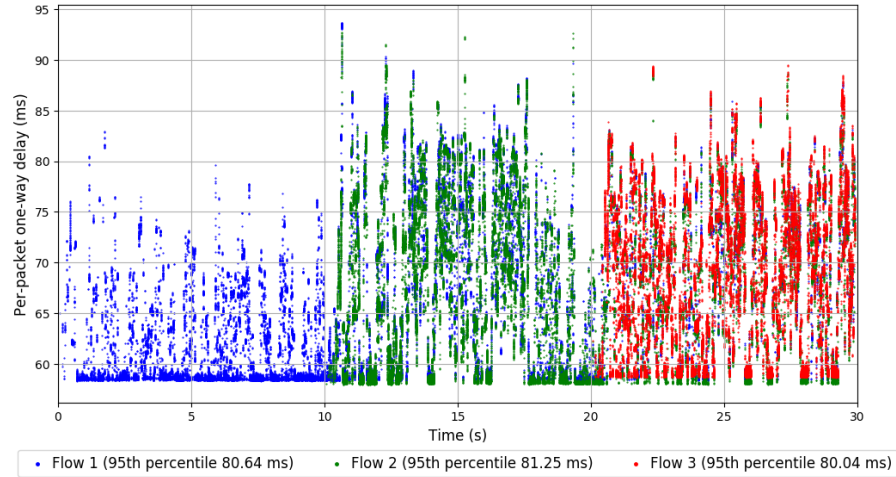
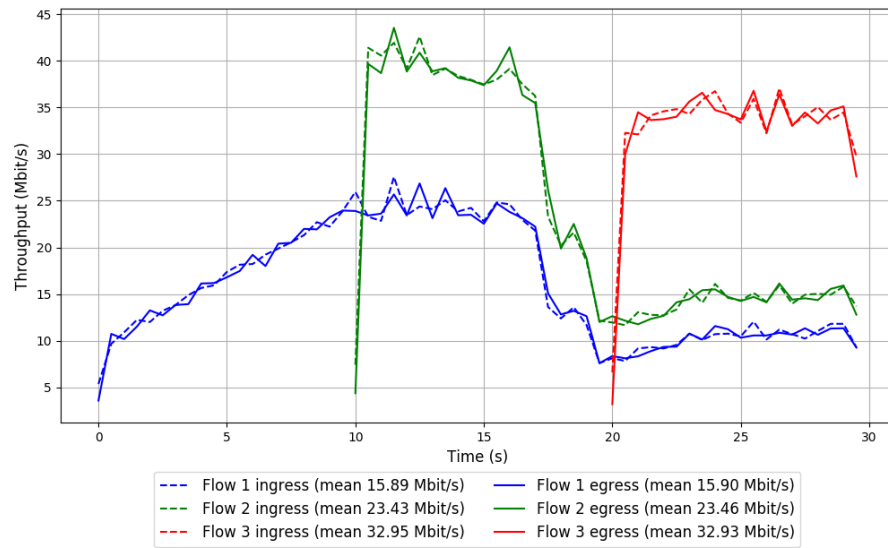


Run 3: Statistics of TCP Vegas

Start at: 2017-12-01 08:06:19
End at: 2017-12-01 08:06:49
Local clock offset: 4.52 ms
Remote clock offset: -17.939 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.36 Mbit/s
95th percentile per-packet one-way delay: 80.769 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 80.644 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 23.46 Mbit/s
95th percentile per-packet one-way delay: 81.250 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 80.036 ms
Loss rate: 1.02%

Run 3: Report of TCP Vegas — Data Link

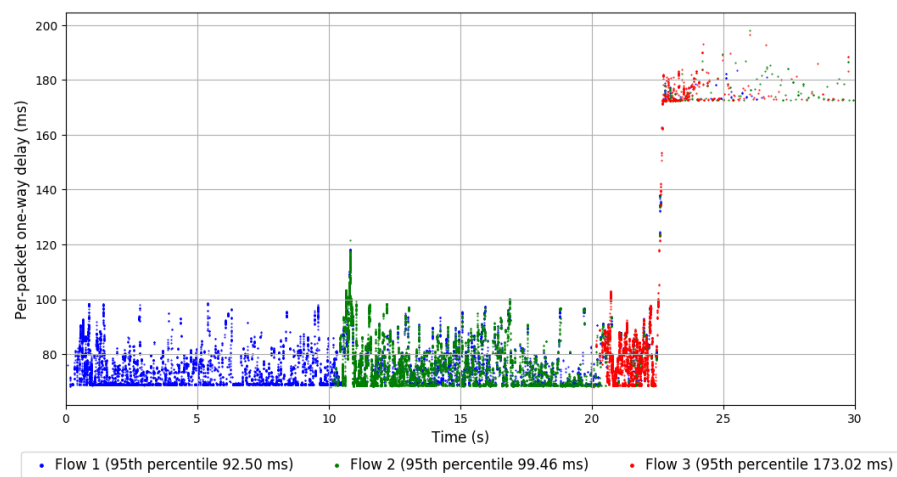
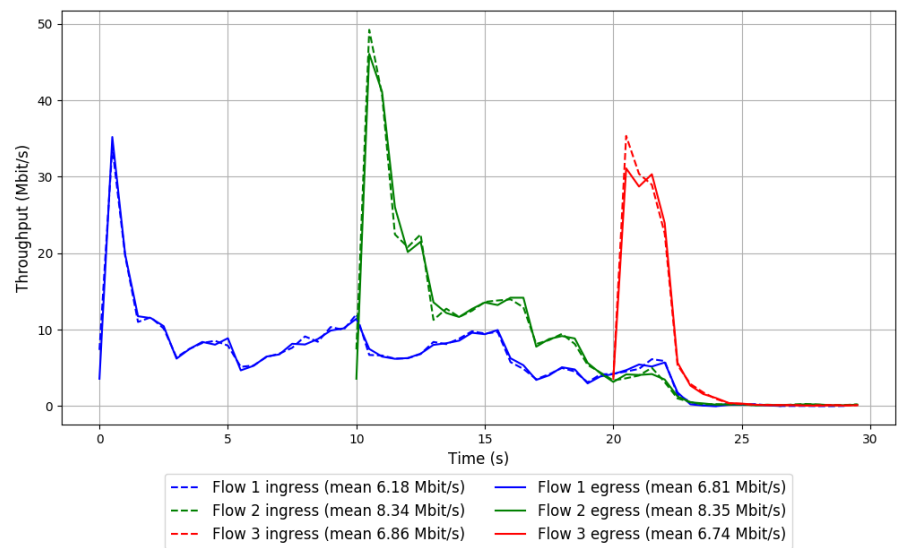


Run 4: Statistics of TCP Vegas

Start at: 2017-12-01 08:23:52
End at: 2017-12-01 08:24:22
Local clock offset: 4.355 ms
Remote clock offset: -27.383 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 97.956 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 92.502 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 99.458 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 173.023 ms
Loss rate: 2.55%

Run 4: Report of TCP Vegas — Data Link

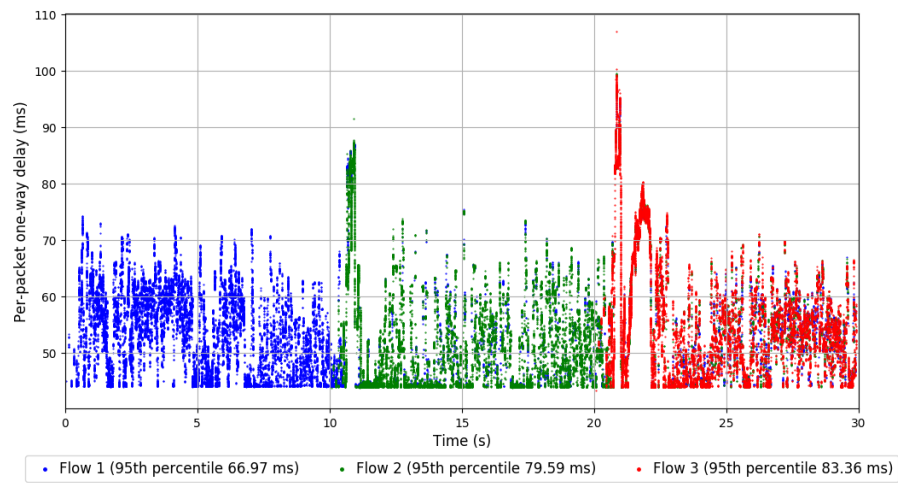
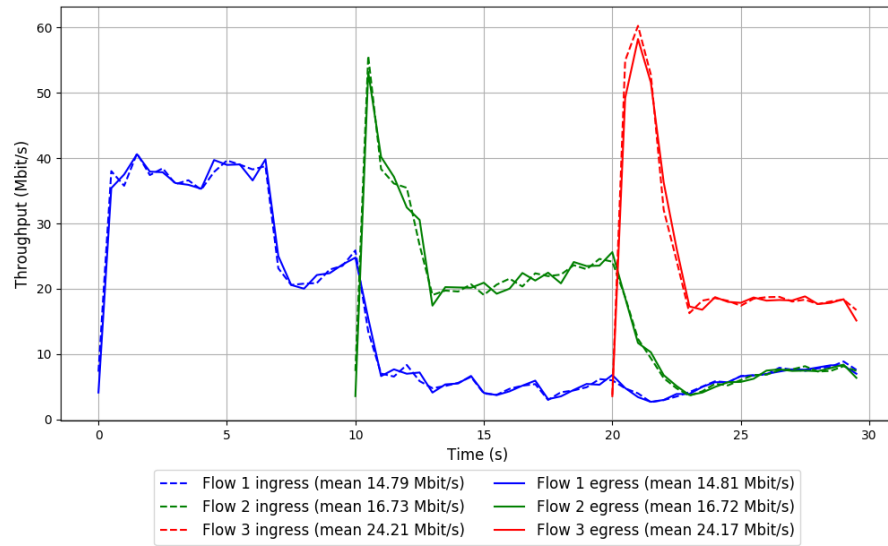


Run 5: Statistics of TCP Vegas

Start at: 2017-12-01 08:42:15
End at: 2017-12-01 08:42:45
Local clock offset: 3.5 ms
Remote clock offset: -3.395 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 75.019 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 14.81 Mbit/s
95th percentile per-packet one-way delay: 66.975 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 79.591 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 83.356 ms
Loss rate: 1.02%

Run 5: Report of TCP Vegas — Data Link

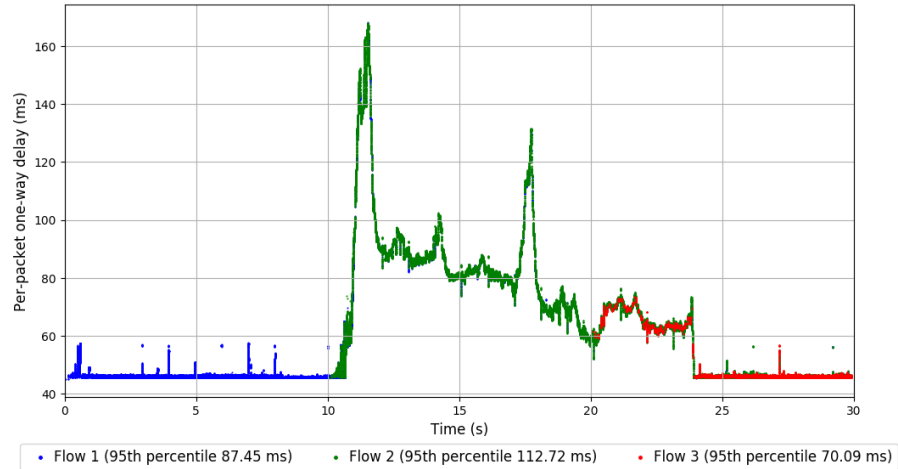
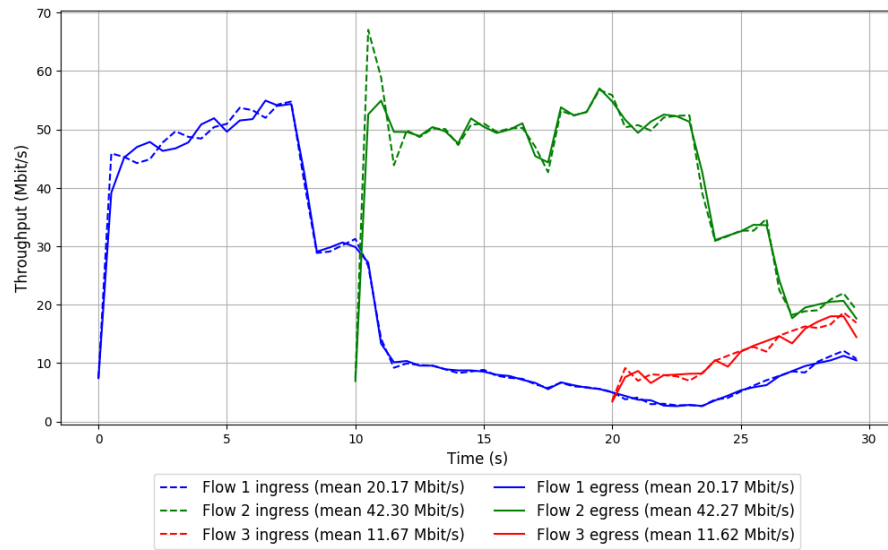


Run 6: Statistics of TCP Vegas

Start at: 2017-12-01 08:59:40
End at: 2017-12-01 09:00:10
Local clock offset: 3.429 ms
Remote clock offset: -5.805 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.07 Mbit/s
95th percentile per-packet one-way delay: 96.297 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 20.17 Mbit/s
95th percentile per-packet one-way delay: 87.451 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 112.718 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 70.089 ms
Loss rate: 1.43%

Run 6: Report of TCP Vegas — Data Link

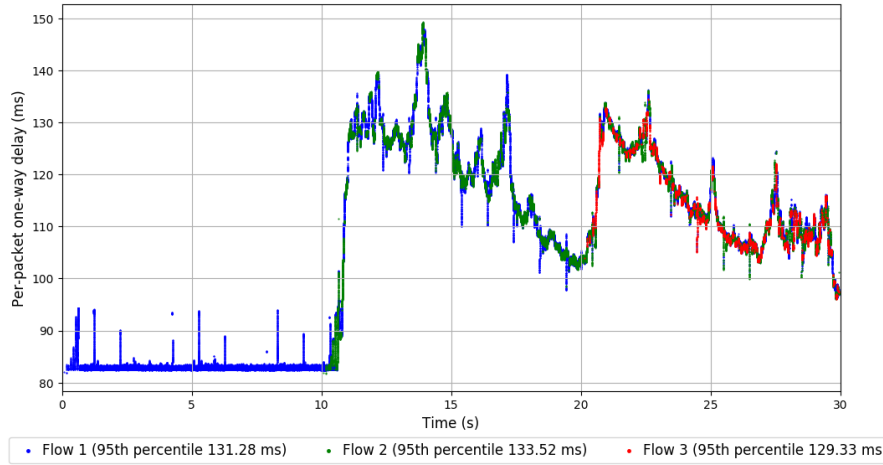
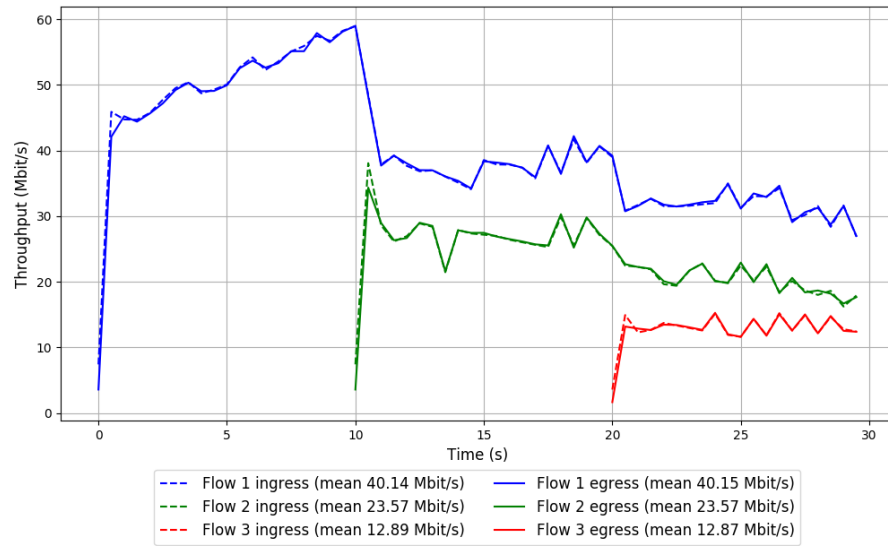


Run 7: Statistics of TCP Vegas

Start at: 2017-12-01 09:17:15
End at: 2017-12-01 09:17:45
Local clock offset: 3.039 ms
Remote clock offset: -43.647 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 131.800 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 40.15 Mbit/s
95th percentile per-packet one-way delay: 131.281 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 133.516 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 129.330 ms
Loss rate: 1.22%

Run 7: Report of TCP Vegas — Data Link

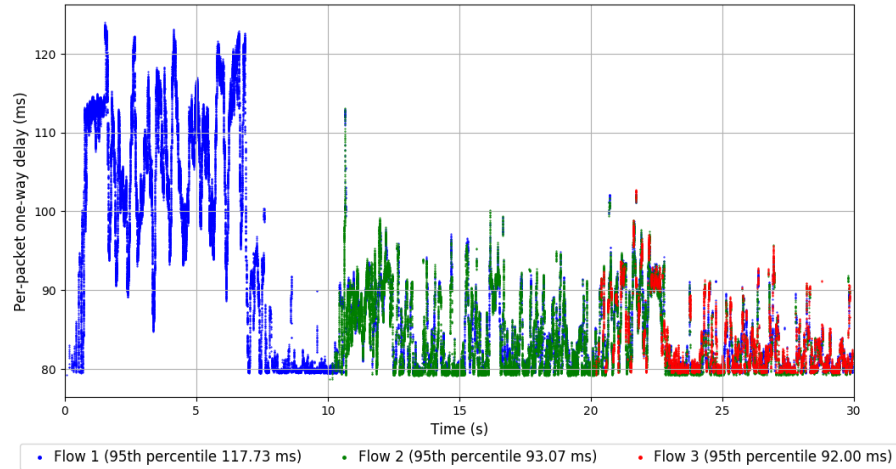
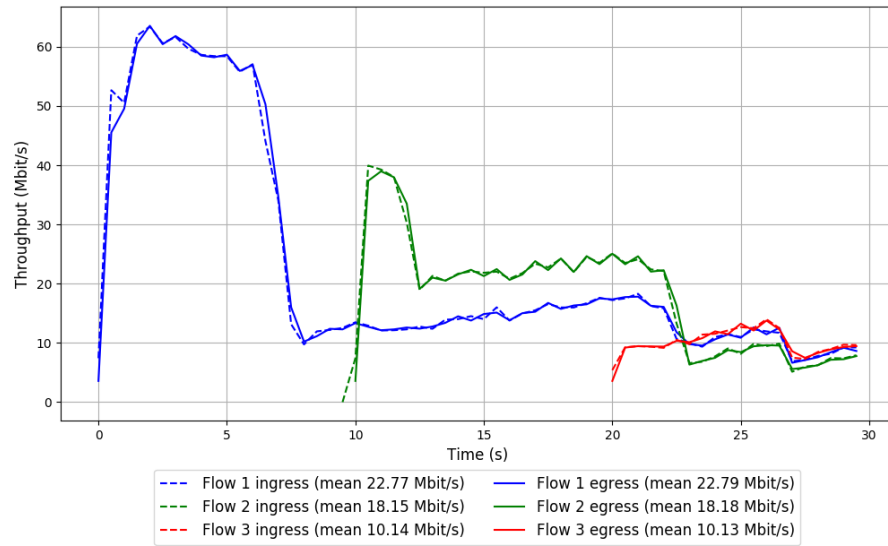


Run 8: Statistics of TCP Vegas

Start at: 2017-12-01 09:37:36
End at: 2017-12-01 09:38:06
Local clock offset: 2.761 ms
Remote clock offset: -40.957 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.21 Mbit/s
95th percentile per-packet one-way delay: 115.373 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 22.79 Mbit/s
95th percentile per-packet one-way delay: 117.729 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 93.073 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 10.13 Mbit/s
95th percentile per-packet one-way delay: 92.005 ms
Loss rate: 1.01%

Run 8: Report of TCP Vegas — Data Link

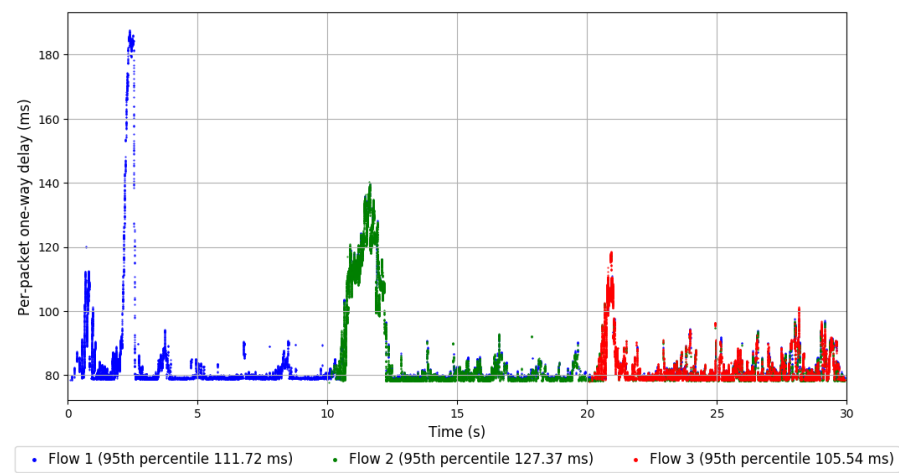
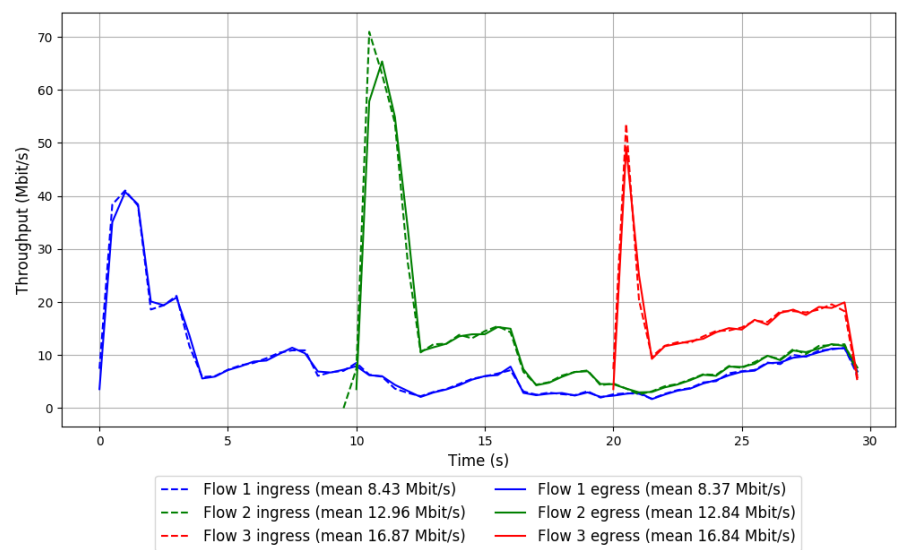


Run 9: Statistics of TCP Vegas

Start at: 2017-12-01 09:54:48
End at: 2017-12-01 09:55:18
Local clock offset: 3.055 ms
Remote clock offset: -39.352 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 121.158 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 111.724 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 12.84 Mbit/s
95th percentile per-packet one-way delay: 127.371 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 105.537 ms
Loss rate: 1.00%

Run 9: Report of TCP Vegas — Data Link

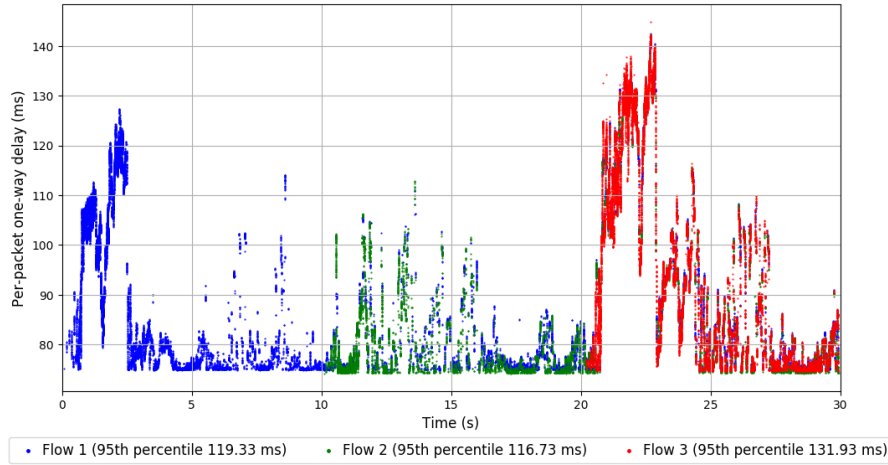
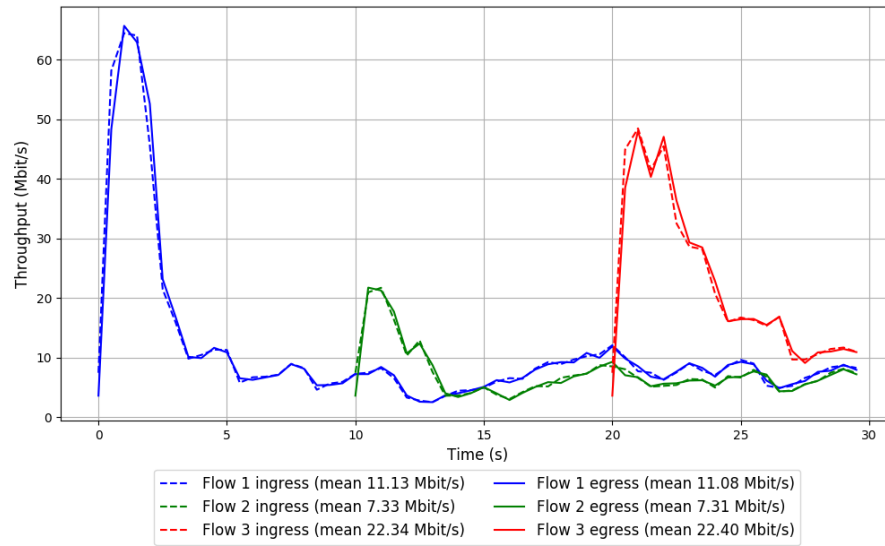


Run 10: Statistics of TCP Vegas

Start at: 2017-12-01 10:12:07
End at: 2017-12-01 10:12:37
Local clock offset: 2.896 ms
Remote clock offset: -34.643 ms

Below is generated by plot.py at 2017-12-01 13:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.30 Mbit/s
95th percentile per-packet one-way delay: 128.313 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 119.335 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 116.733 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 22.40 Mbit/s
95th percentile per-packet one-way delay: 131.928 ms
Loss rate: 0.66%

Run 10: Report of TCP Vegas — Data Link

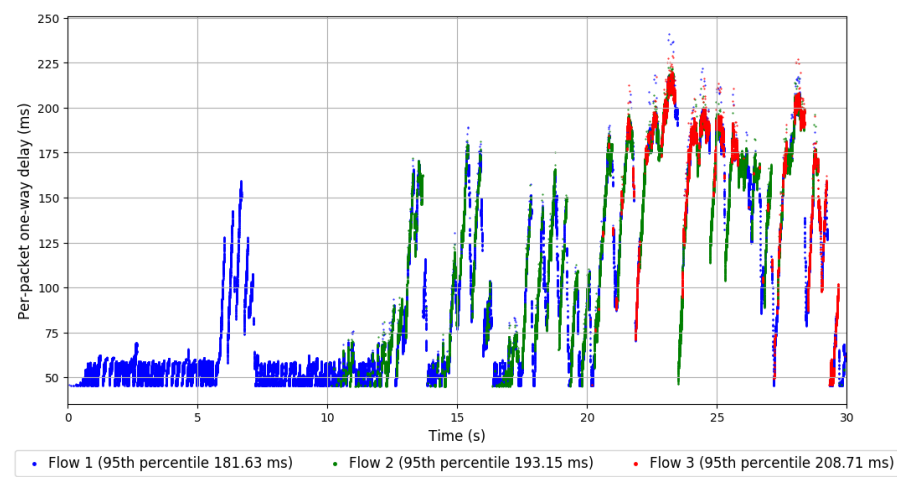
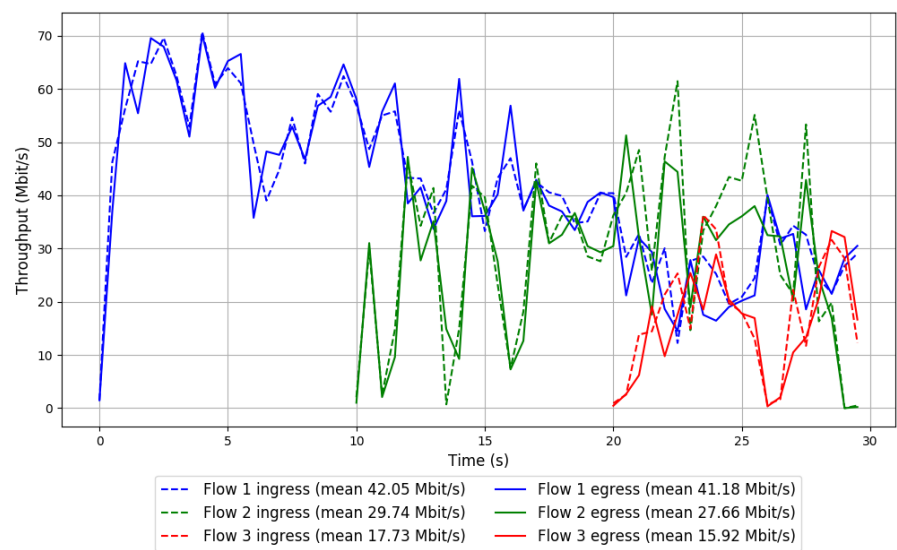


Run 1: Statistics of Verus

Start at: 2017-12-01 07:21:24
End at: 2017-12-01 07:21:54
Local clock offset: 3.286 ms
Remote clock offset: -6.555 ms

Below is generated by plot.py at 2017-12-01 13:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.77 Mbit/s
95th percentile per-packet one-way delay: 191.657 ms
Loss rate: 4.45%
-- Flow 1:
Average throughput: 41.18 Mbit/s
95th percentile per-packet one-way delay: 181.628 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 27.66 Mbit/s
95th percentile per-packet one-way delay: 193.150 ms
Loss rate: 7.45%
-- Flow 3:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 208.706 ms
Loss rate: 10.45%

Run 1: Report of Verus — Data Link

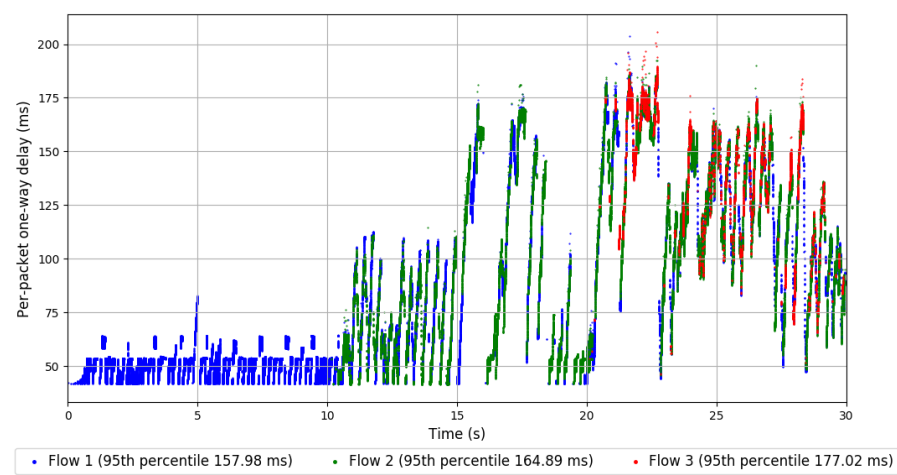
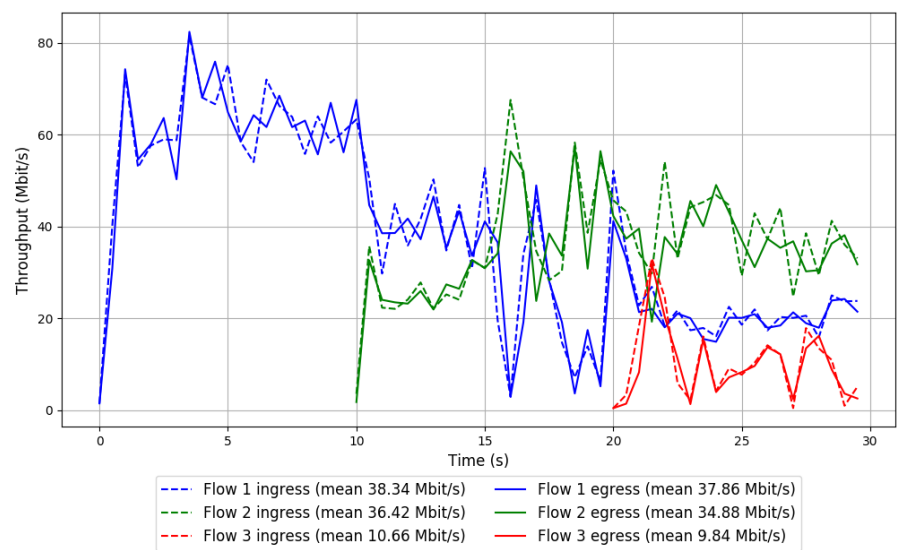


Run 2: Statistics of Verus

Start at: 2017-12-01 07:39:23
End at: 2017-12-01 07:39:53
Local clock offset: 3.821 ms
Remote clock offset: -2.048 ms

Below is generated by plot.py at 2017-12-01 13:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.26 Mbit/s
95th percentile per-packet one-way delay: 164.548 ms
Loss rate: 3.05%
-- Flow 1:
Average throughput: 37.86 Mbit/s
95th percentile per-packet one-way delay: 157.976 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 164.891 ms
Loss rate: 4.65%
-- Flow 3:
Average throughput: 9.84 Mbit/s
95th percentile per-packet one-way delay: 177.021 ms
Loss rate: 8.57%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-01 08:01:00

End at: 2017-12-01 08:01:30

Local clock offset: 4.278 ms

Remote clock offset: 0.942 ms

Below is generated by plot.py at 2017-12-01 13:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 181.925 ms

Loss rate: 12.47%

-- Flow 1:

Average throughput: 17.76 Mbit/s

95th percentile per-packet one-way delay: 182.582 ms

Loss rate: 10.86%

-- Flow 2:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 165.668 ms

Loss rate: 18.16%

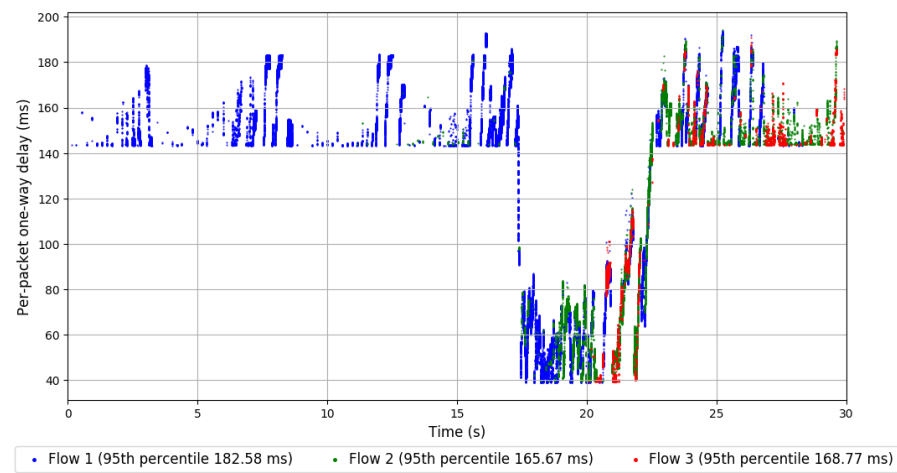
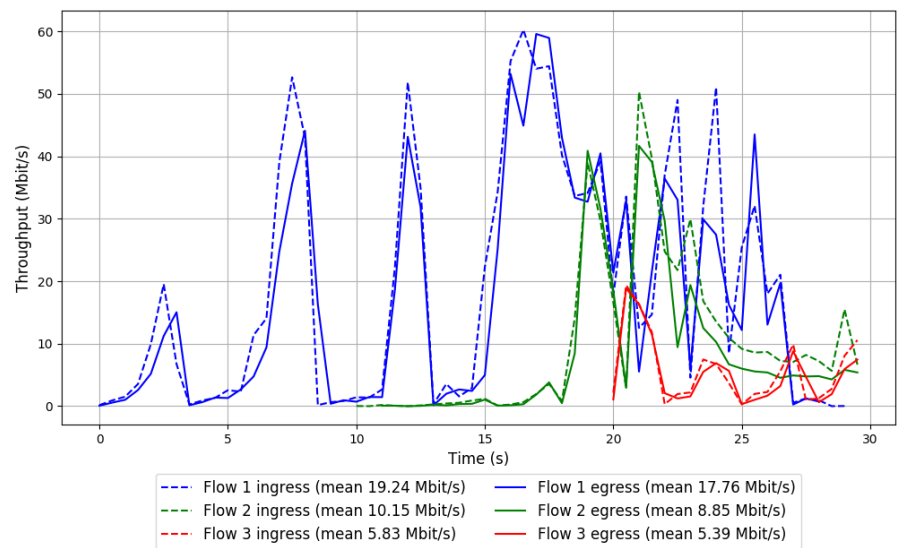
-- Flow 3:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 168.770 ms

Loss rate: 8.12%

Run 3: Report of Verus — Data Link

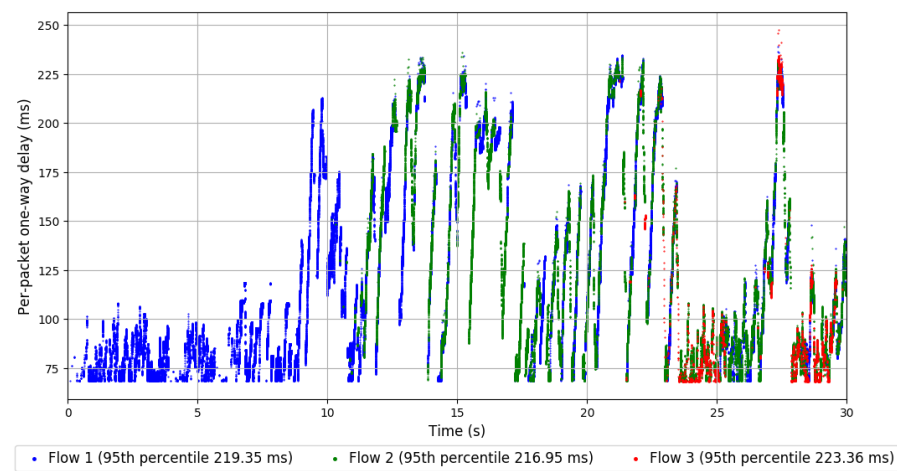
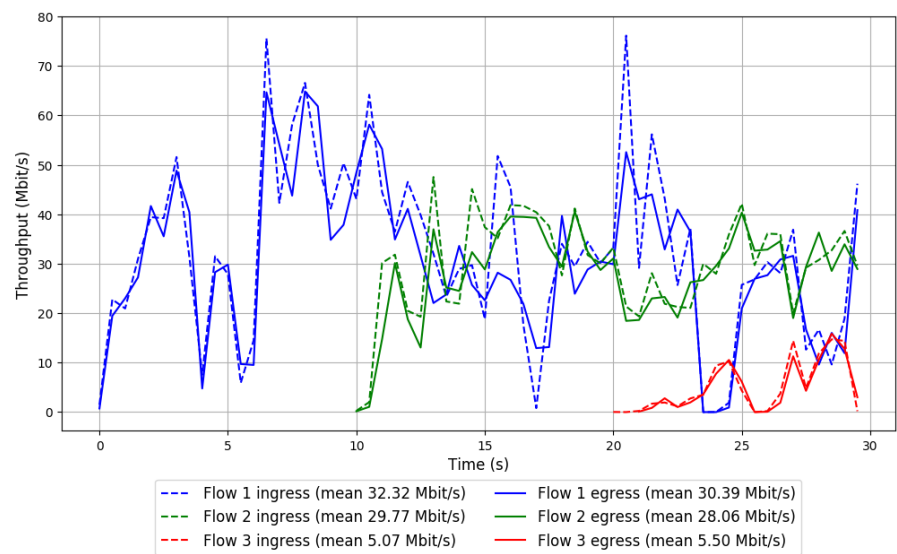


Run 4: Statistics of Verus

Start at: 2017-12-01 08:20:07
End at: 2017-12-01 08:20:37
Local clock offset: 4.199 ms
Remote clock offset: -27.833 ms

Below is generated by plot.py at 2017-12-01 13:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.55 Mbit/s
95th percentile per-packet one-way delay: 219.079 ms
Loss rate: 6.35%
-- Flow 1:
Average throughput: 30.39 Mbit/s
95th percentile per-packet one-way delay: 219.351 ms
Loss rate: 6.28%
-- Flow 2:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 216.951 ms
Loss rate: 6.57%
-- Flow 3:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 223.362 ms
Loss rate: 5.17%

Run 4: Report of Verus — Data Link

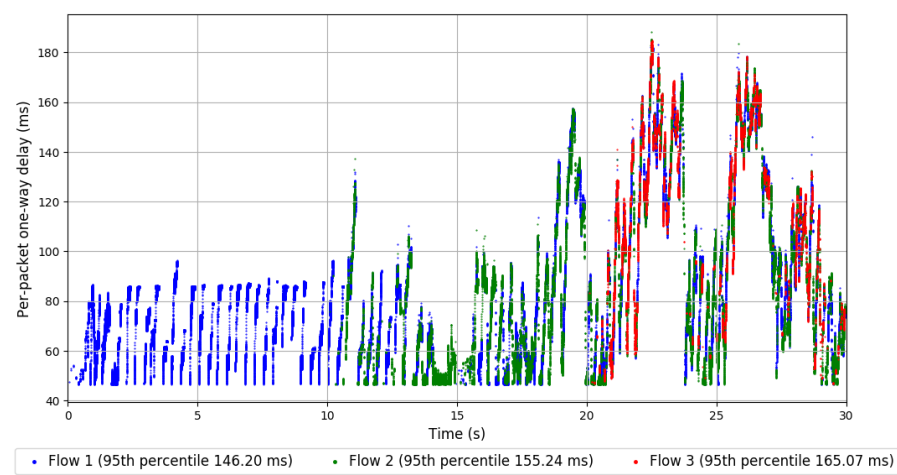
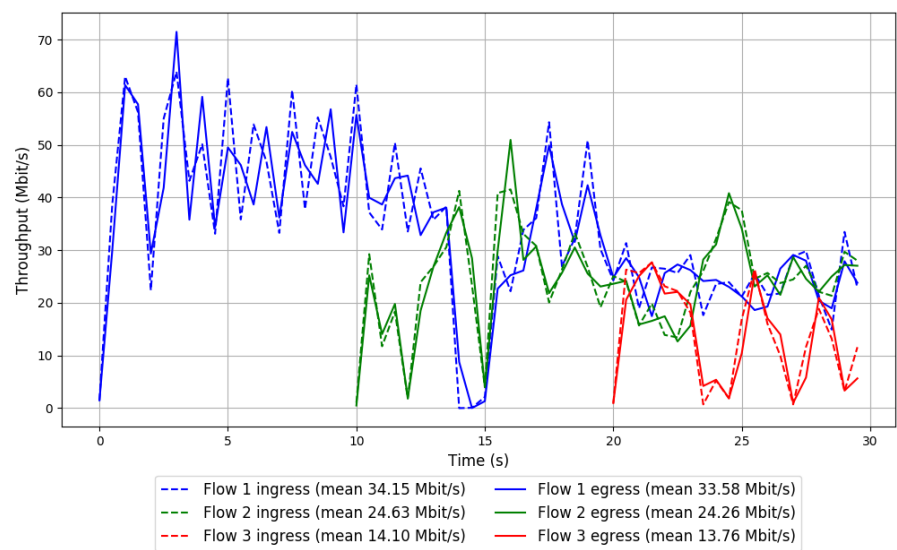


Run 5: Statistics of Verus

Start at: 2017-12-01 08:38:28
End at: 2017-12-01 08:38:58
Local clock offset: 3.592 ms
Remote clock offset: -5.916 ms

Below is generated by plot.py at 2017-12-01 13:34:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.20 Mbit/s
95th percentile per-packet one-way delay: 152.951 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 146.203 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 155.239 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 13.76 Mbit/s
95th percentile per-packet one-way delay: 165.066 ms
Loss rate: 3.65%

Run 5: Report of Verus — Data Link

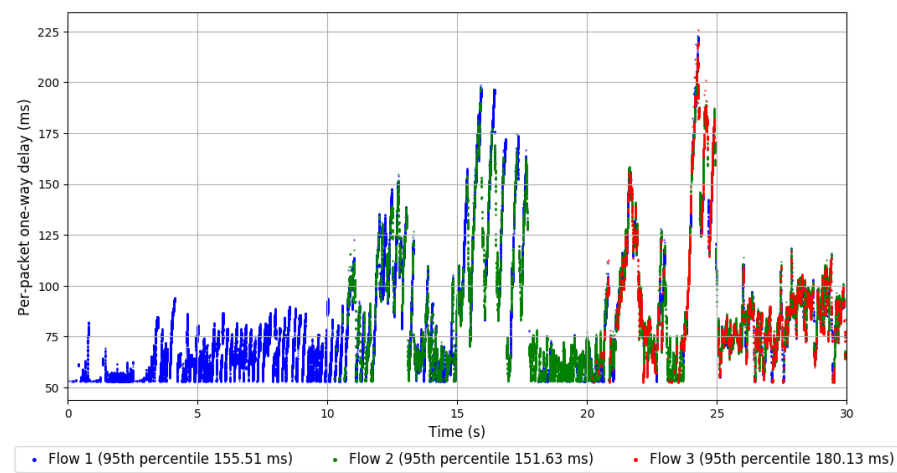
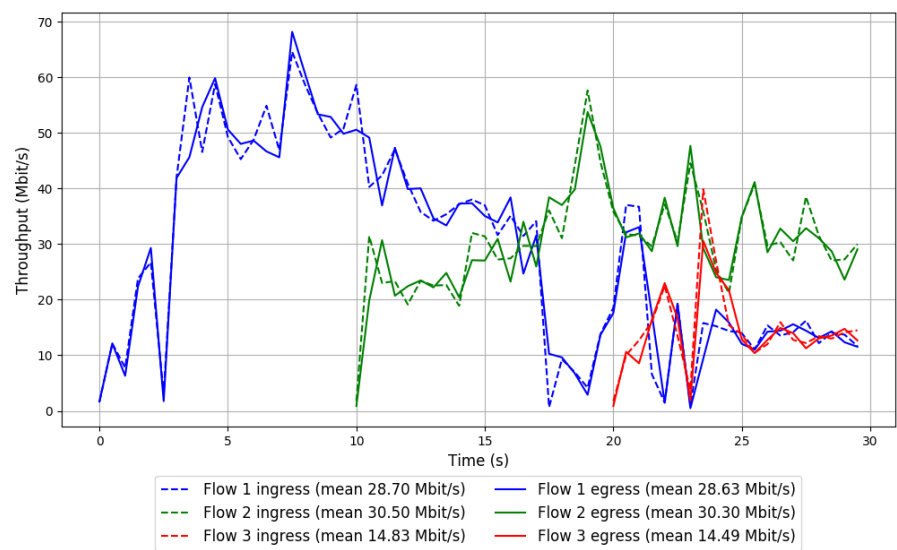


Run 6: Statistics of Verus

Start at: 2017-12-01 08:55:55
End at: 2017-12-01 08:56:25
Local clock offset: 3.398 ms
Remote clock offset: -12.812 ms

Below is generated by plot.py at 2017-12-01 13:34:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 157.233 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 28.63 Mbit/s
95th percentile per-packet one-way delay: 155.514 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 30.30 Mbit/s
95th percentile per-packet one-way delay: 151.628 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 14.49 Mbit/s
95th percentile per-packet one-way delay: 180.135 ms
Loss rate: 3.21%

Run 6: Report of Verus — Data Link

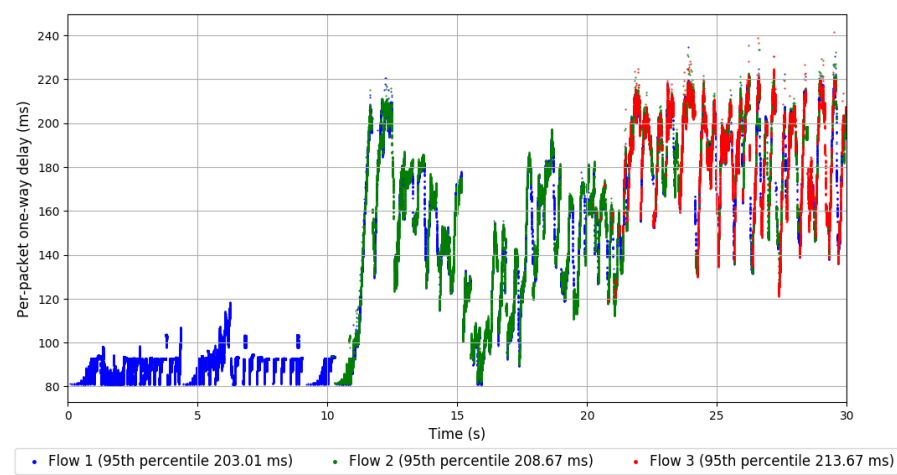
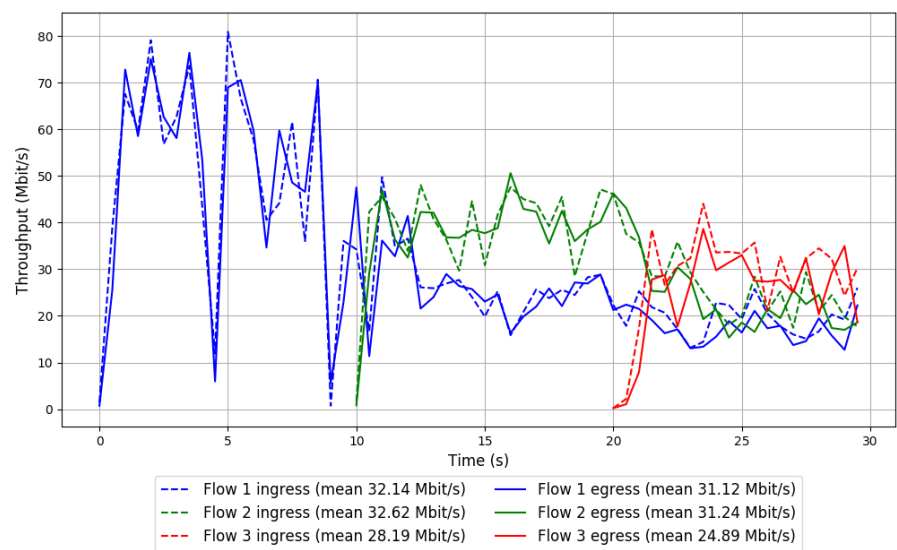


Run 7: Statistics of Verus

Start at: 2017-12-01 09:13:27
End at: 2017-12-01 09:13:57
Local clock offset: 3.02 ms
Remote clock offset: -42.172 ms

Below is generated by plot.py at 2017-12-01 13:34:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: 208.537 ms
Loss rate: 5.35%
-- Flow 1:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 203.010 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 31.24 Mbit/s
95th percentile per-packet one-way delay: 208.673 ms
Loss rate: 4.75%
-- Flow 3:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 213.674 ms
Loss rate: 13.22%

Run 7: Report of Verus — Data Link

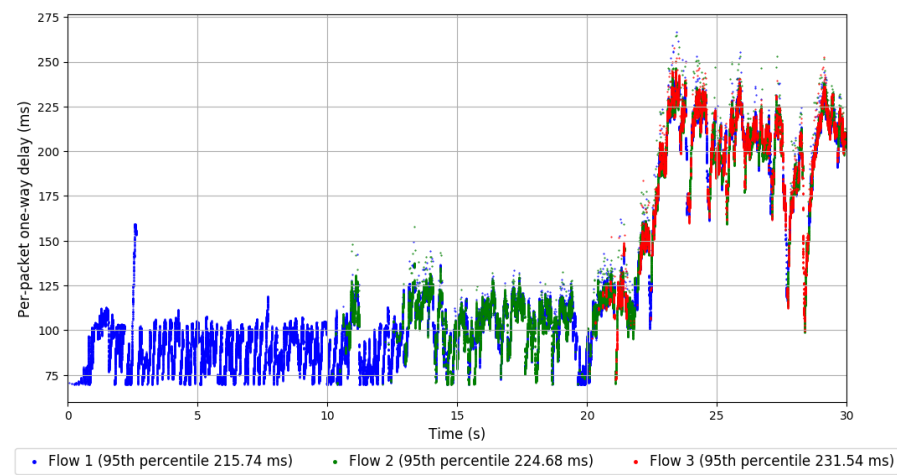
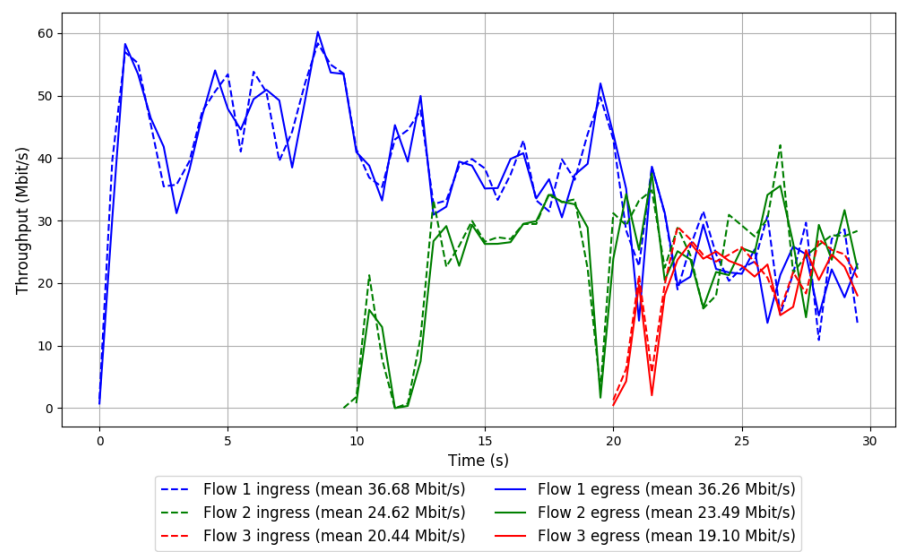


Run 8: Statistics of Verus

Start at: 2017-12-01 09:33:49
End at: 2017-12-01 09:34:19
Local clock offset: 2.768 ms
Remote clock offset: -31.471 ms

Below is generated by plot.py at 2017-12-01 13:35:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.98 Mbit/s
95th percentile per-packet one-way delay: 223.119 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 215.738 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 224.677 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 19.10 Mbit/s
95th percentile per-packet one-way delay: 231.544 ms
Loss rate: 7.43%

Run 8: Report of Verus — Data Link

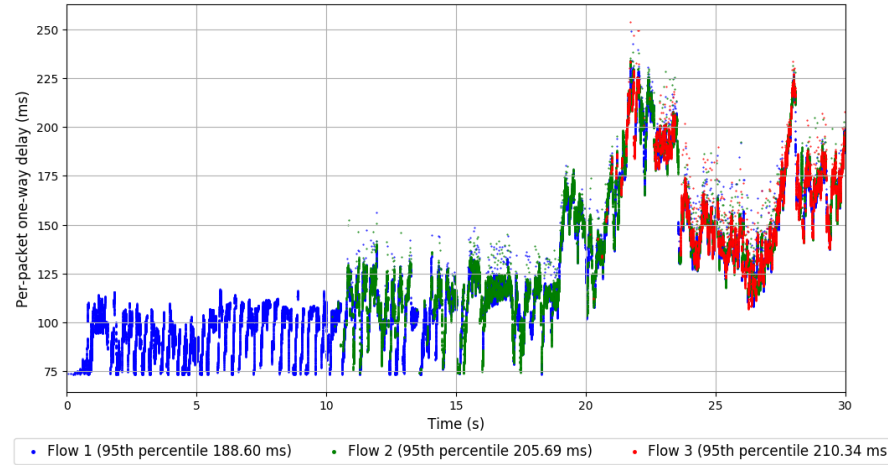
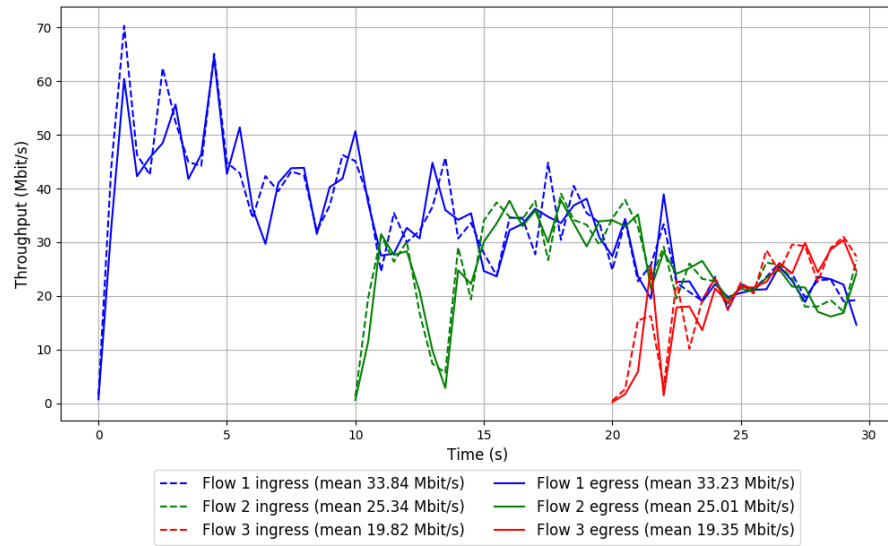


Run 9: Statistics of Verus

Start at: 2017-12-01 09:51:04
End at: 2017-12-01 09:51:34
Local clock offset: 2.785 ms
Remote clock offset: -35.128 ms

Below is generated by plot.py at 2017-12-01 13:35:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 199.183 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 188.605 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 205.693 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 210.345 ms
Loss rate: 4.21%

Run 9: Report of Verus — Data Link

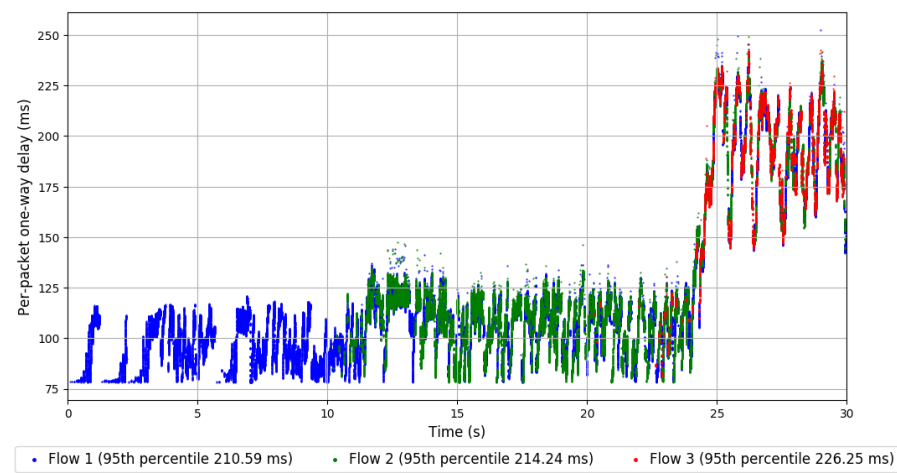
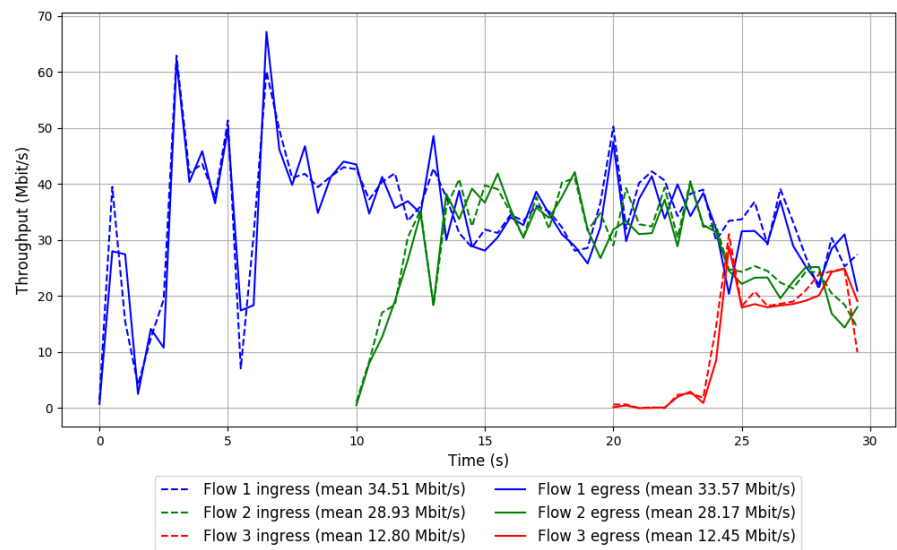


Run 10: Statistics of Verus

Start at: 2017-12-01 10:08:17
End at: 2017-12-01 10:08:47
Local clock offset: 3.069 ms
Remote clock offset: -38.258 ms

Below is generated by plot.py at 2017-12-01 13:35:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.33 Mbit/s
95th percentile per-packet one-way delay: 215.707 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 210.586 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 28.17 Mbit/s
95th percentile per-packet one-way delay: 214.237 ms
Loss rate: 3.17%
-- Flow 3:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 226.246 ms
Loss rate: 3.94%

Run 10: Report of Verus — Data Link

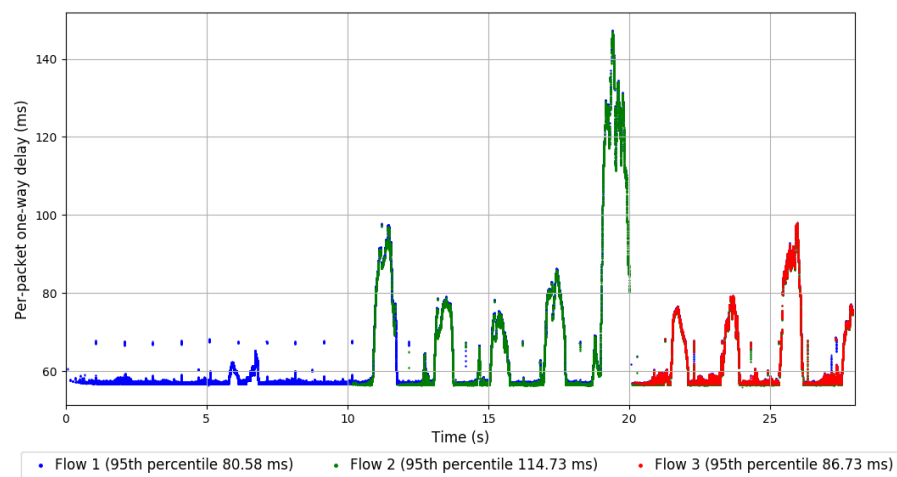
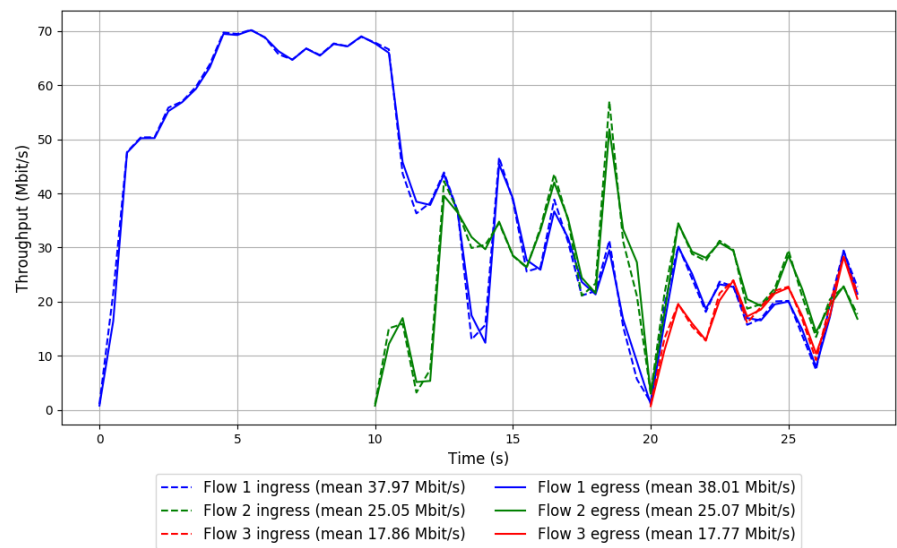


Run 1: Statistics of Copa

Start at: 2017-12-01 07:14:59
End at: 2017-12-01 07:15:29
Local clock offset: 2.881 ms
Remote clock offset: -18.44 ms

Below is generated by plot.py at 2017-12-01 13:36:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.06 Mbit/s
95th percentile per-packet one-way delay: 87.708 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 80.583 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 114.730 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 17.77 Mbit/s
95th percentile per-packet one-way delay: 86.730 ms
Loss rate: 1.57%

Run 1: Report of Copa — Data Link

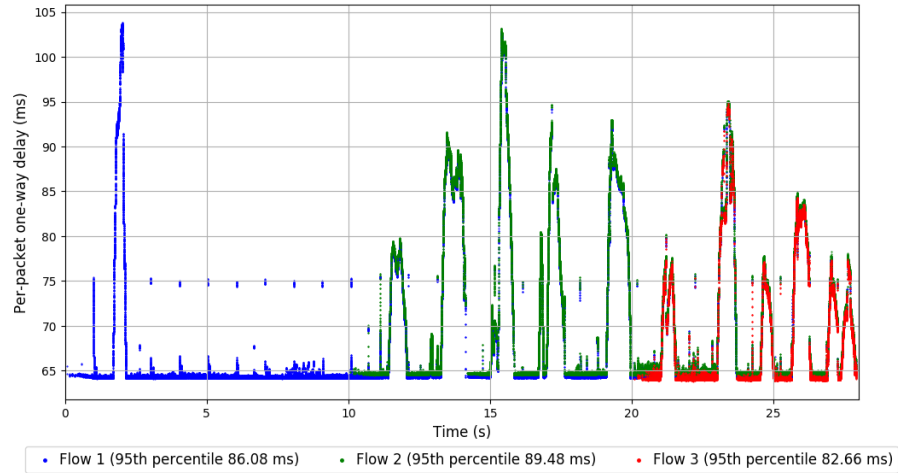
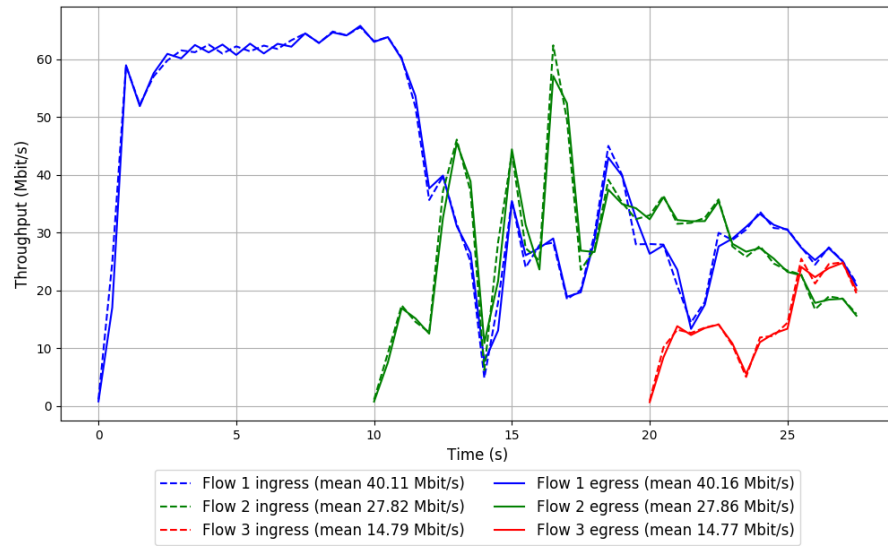


Run 2: Statistics of Copa

Start at: 2017-12-01 07:32:56
End at: 2017-12-01 07:33:26
Local clock offset: 3.567 ms
Remote clock offset: -25.075 ms

Below is generated by plot.py at 2017-12-01 13:36:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.17 Mbit/s
95th percentile per-packet one-way delay: 87.692 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 86.075 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 27.86 Mbit/s
95th percentile per-packet one-way delay: 89.478 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 14.77 Mbit/s
95th percentile per-packet one-way delay: 82.662 ms
Loss rate: 1.27%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-01 07:52:36

End at: 2017-12-01 07:53:06

Local clock offset: 4.219 ms

Remote clock offset: 0.842 ms

Below is generated by plot.py at 2017-12-01 13:36:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 161.854 ms

Loss rate: 14.45%

-- Flow 1:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 161.937 ms

Loss rate: 14.11%

-- Flow 2:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 161.710 ms

Loss rate: 15.04%

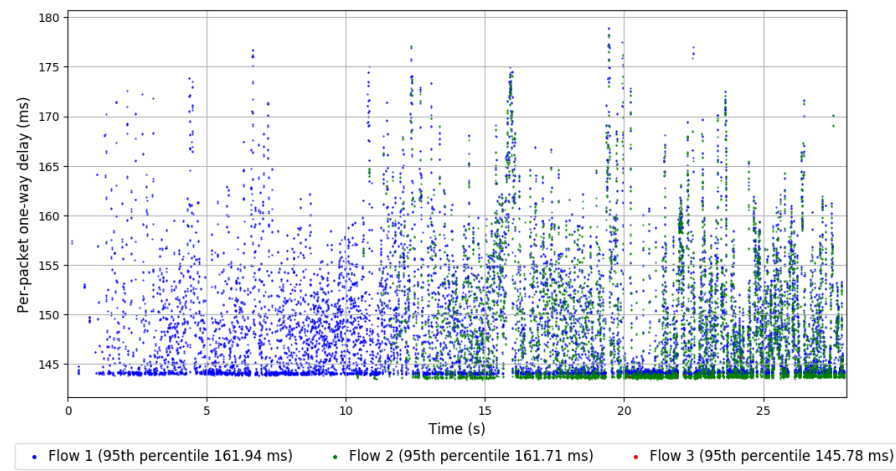
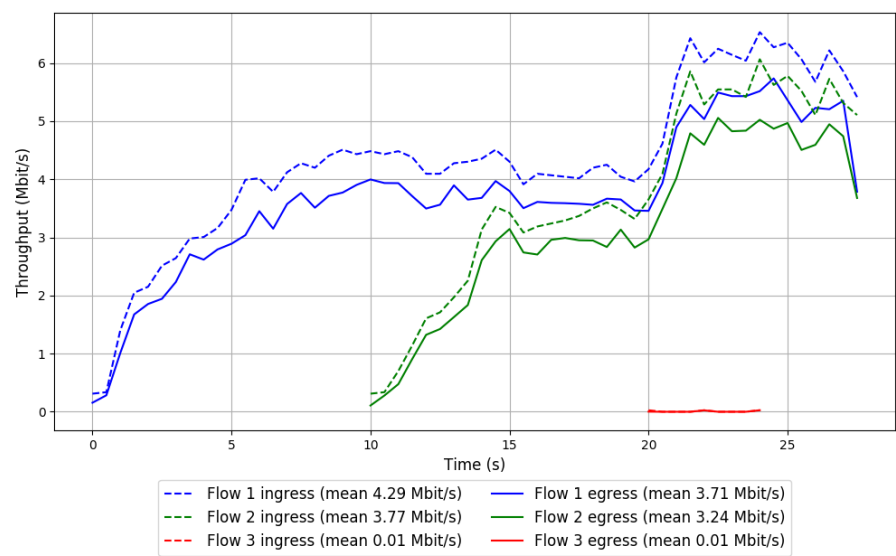
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 145.783 ms

Loss rate: 33.33%

Run 3: Report of Copa — Data Link

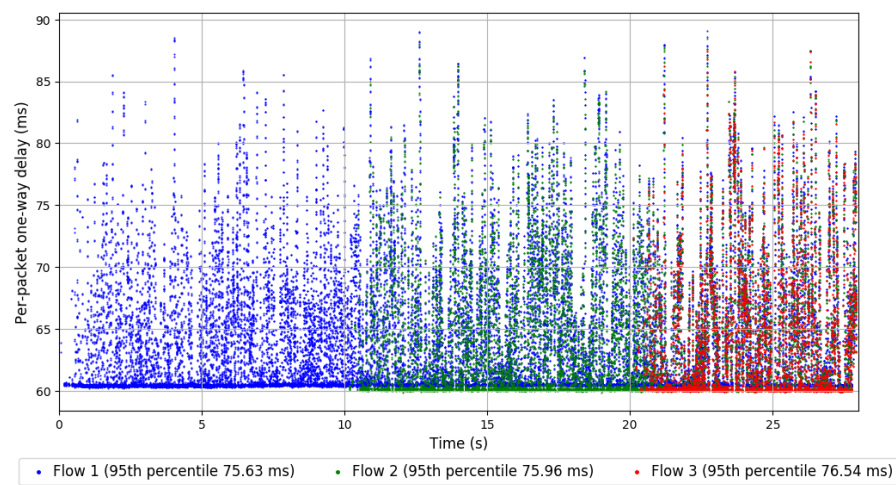
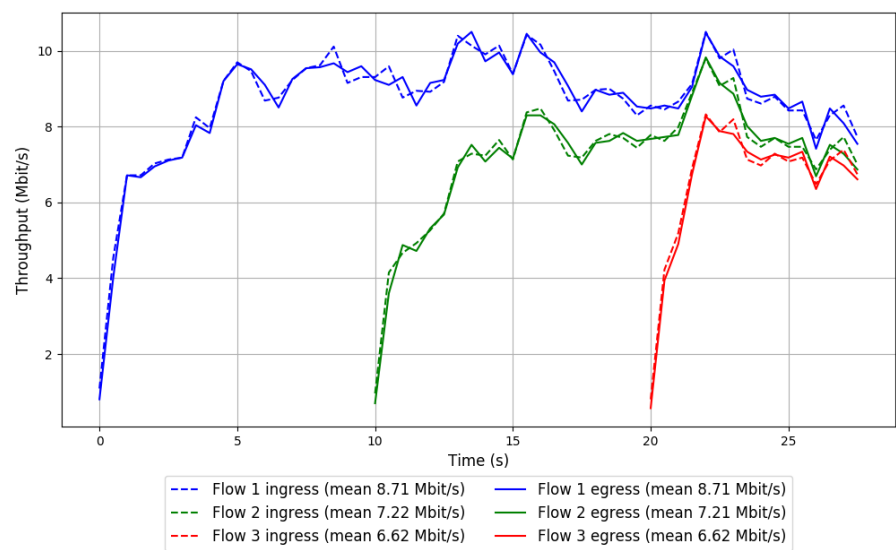


Run 4: Statistics of Copa

Start at: 2017-12-01 08:13:45
End at: 2017-12-01 08:14:15
Local clock offset: 4.429 ms
Remote clock offset: -19.334 ms

Below is generated by plot.py at 2017-12-01 13:36:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.18 Mbit/s
95th percentile per-packet one-way delay: 75.850 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 75.628 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 75.959 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 76.539 ms
Loss rate: 1.29%

Run 4: Report of Copa — Data Link

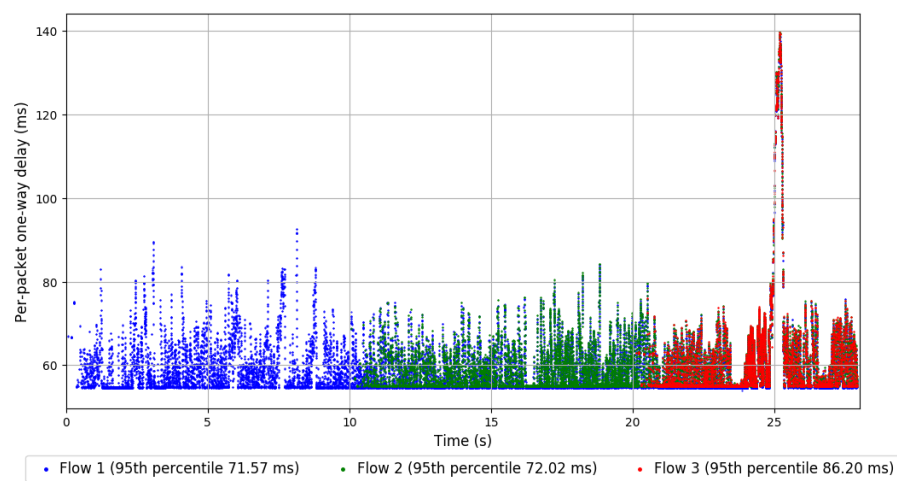
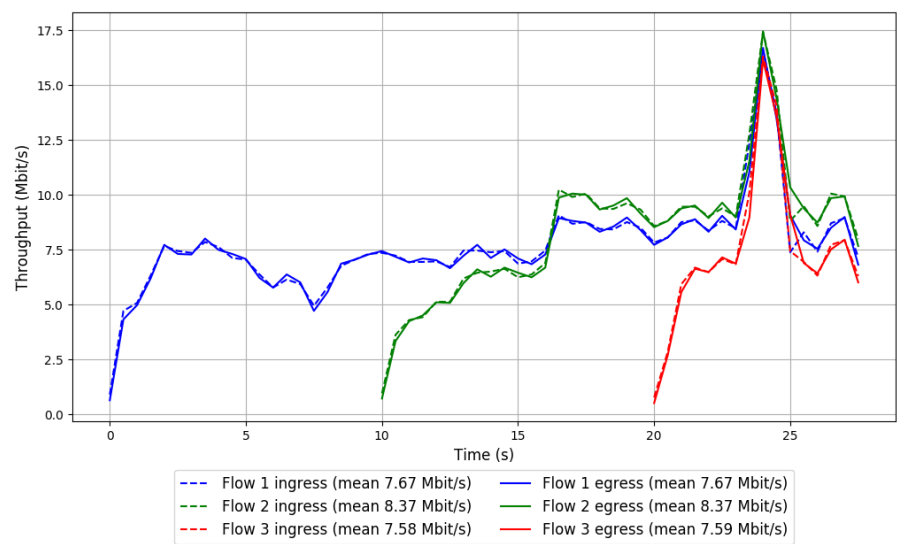


Run 5: Statistics of Copa

Start at: 2017-12-01 08:32:07
End at: 2017-12-01 08:32:37
Local clock offset: 3.871 ms
Remote clock offset: -14.204 ms

Below is generated by plot.py at 2017-12-01 13:36:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.16 Mbit/s
95th percentile per-packet one-way delay: 72.434 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 71.567 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 72.024 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 86.201 ms
Loss rate: 1.06%

Run 5: Report of Copa — Data Link

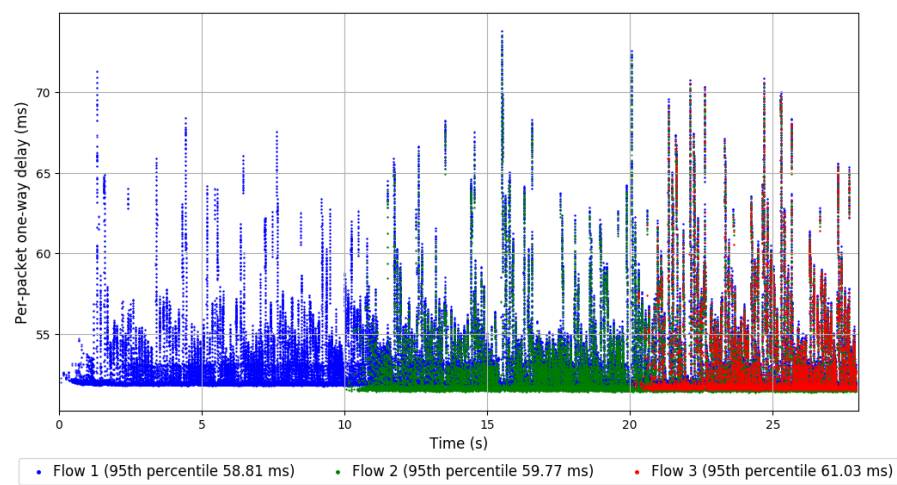
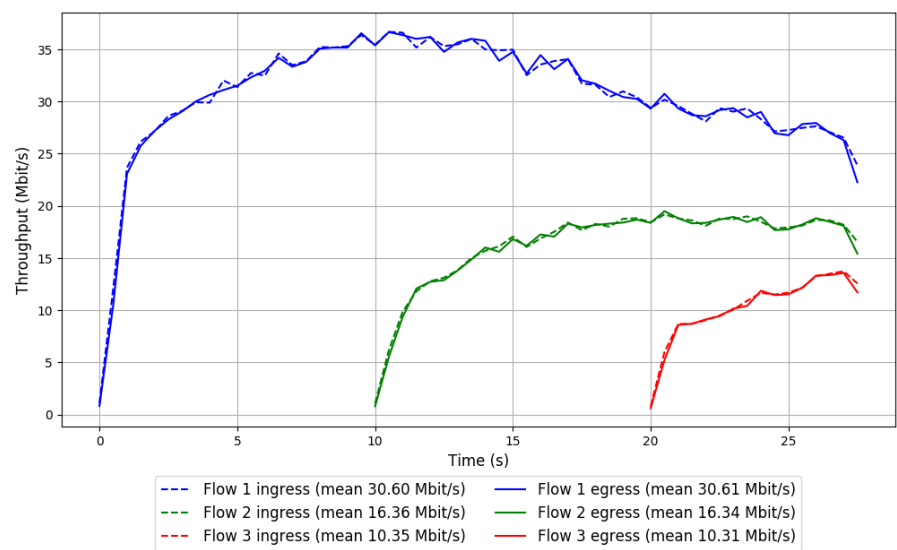


Run 6: Statistics of Copa

Start at: 2017-12-01 08:49:45
End at: 2017-12-01 08:50:15
Local clock offset: 3.612 ms
Remote clock offset: -10.925 ms

Below is generated by plot.py at 2017-12-01 13:36:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 59.190 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 58.811 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 16.34 Mbit/s
95th percentile per-packet one-way delay: 59.770 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 61.029 ms
Loss rate: 1.52%

Run 6: Report of Copa — Data Link

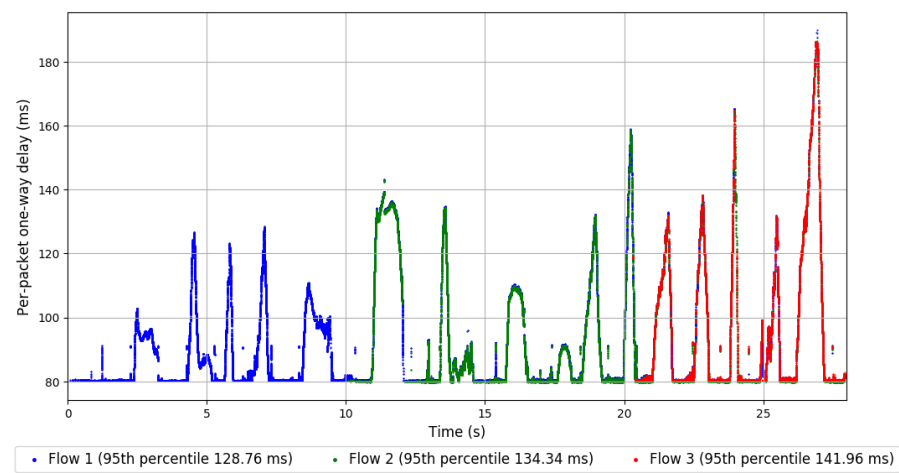
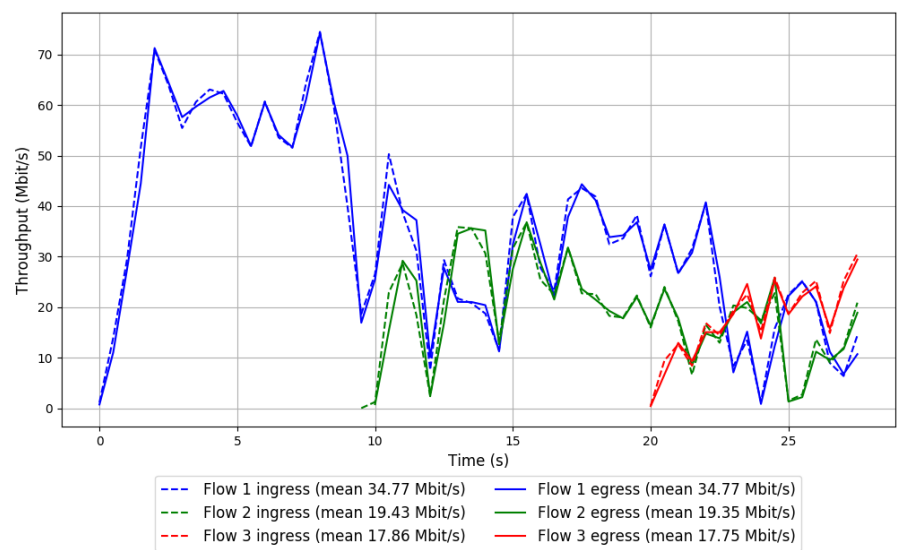


Run 7: Statistics of Copa

Start at: 2017-12-01 09:07:10
End at: 2017-12-01 09:07:40
Local clock offset: 3.232 ms
Remote clock offset: -41.074 ms

Below is generated by plot.py at 2017-12-01 13:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.12 Mbit/s
95th percentile per-packet one-way delay: 132.589 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 34.77 Mbit/s
95th percentile per-packet one-way delay: 128.761 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 134.340 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 17.75 Mbit/s
95th percentile per-packet one-way delay: 141.963 ms
Loss rate: 2.49%

Run 7: Report of Copa — Data Link

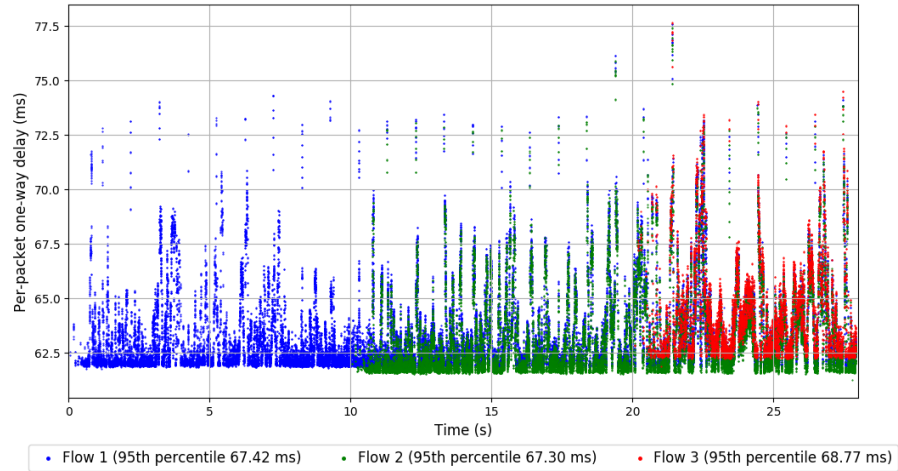
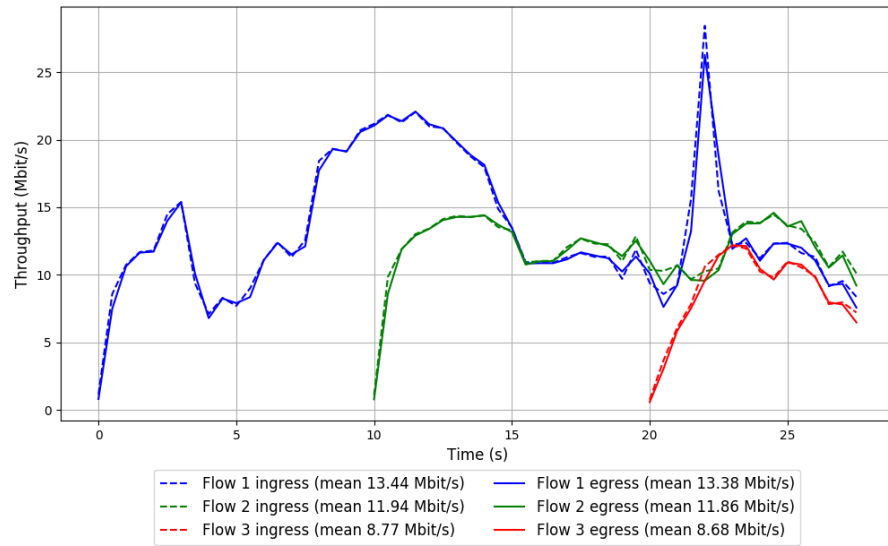


Run 8: Statistics of Copa

Start at: 2017-12-01 09:24:56
End at: 2017-12-01 09:25:26
Local clock offset: 2.964 ms
Remote clock offset: -23.453 ms

Below is generated by plot.py at 2017-12-01 13:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 67.524 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 67.422 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 67.299 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 68.765 ms
Loss rate: 2.11%

Run 8: Report of Copa — Data Link

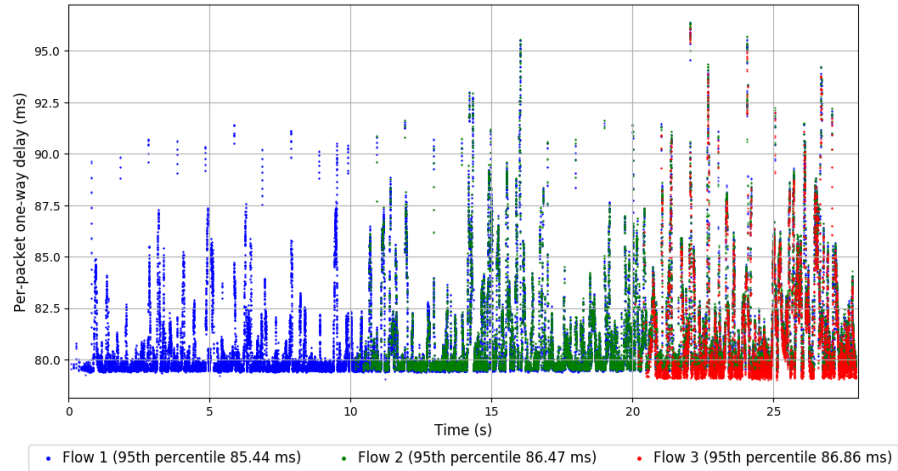
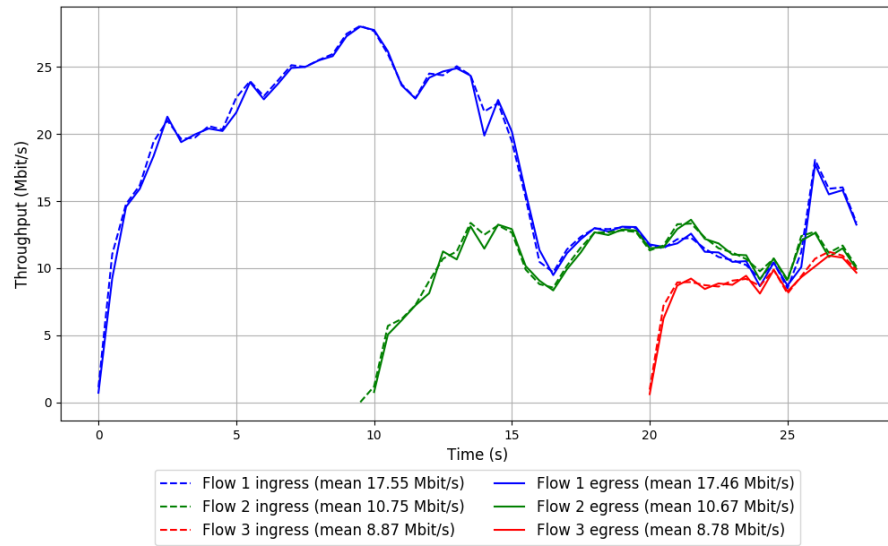


Run 9: Statistics of Copa

Start at: 2017-12-01 09:44:56
End at: 2017-12-01 09:45:26
Local clock offset: 2.961 ms
Remote clock offset: -40.741 ms

Below is generated by plot.py at 2017-12-01 13:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.77 Mbit/s
95th percentile per-packet one-way delay: 85.813 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 17.46 Mbit/s
95th percentile per-packet one-way delay: 85.443 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 86.474 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 86.857 ms
Loss rate: 2.21%

Run 9: Report of Copa — Data Link

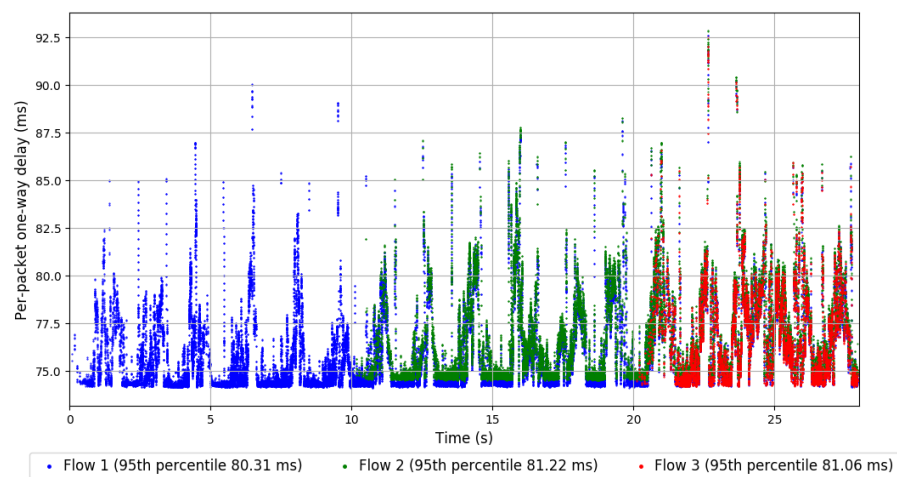
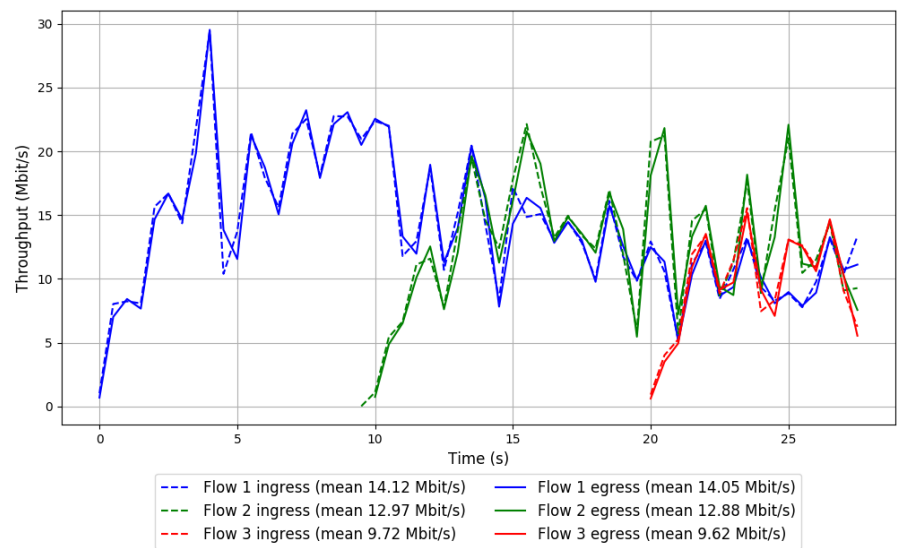


Run 10: Statistics of Copa

Start at: 2017-12-01 10:02:05
End at: 2017-12-01 10:02:35
Local clock offset: 3.134 ms
Remote clock offset: -34.658 ms

Below is generated by plot.py at 2017-12-01 13:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 80.766 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 80.312 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 81.221 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 81.055 ms
Loss rate: 2.04%

Run 10: Report of Copa — Data Link

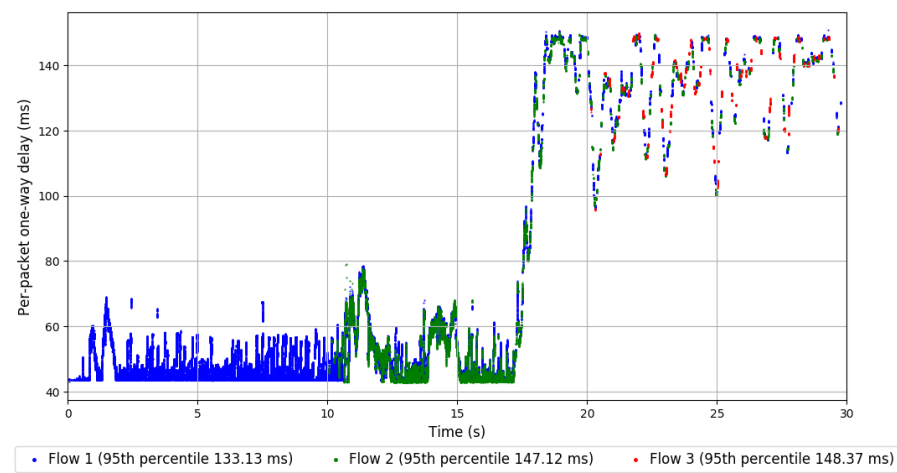
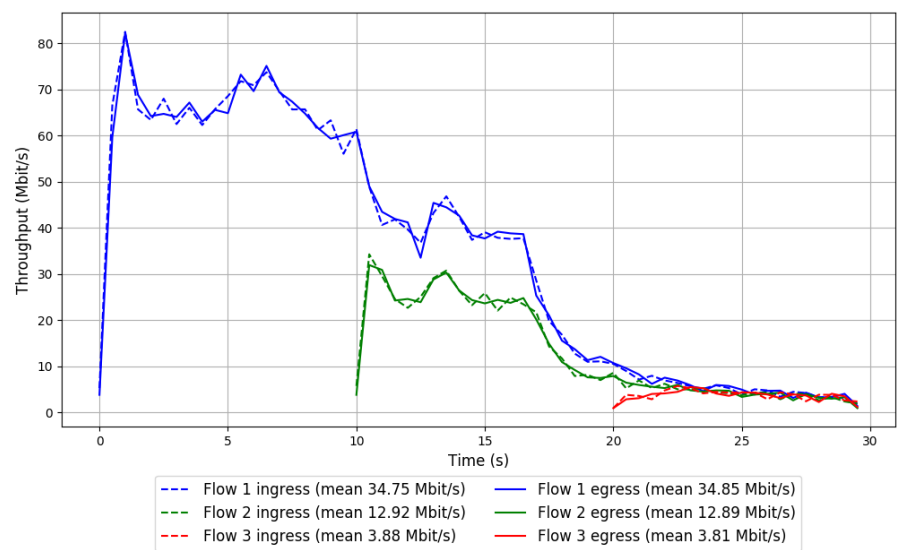


Run 1: Statistics of Indigo

Start at: 2017-12-01 07:22:41
End at: 2017-12-01 07:23:11
Local clock offset: 3.161 ms
Remote clock offset: -4.403 ms

Below is generated by plot.py at 2017-12-01 13:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.57 Mbit/s
95th percentile per-packet one-way delay: 141.384 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 34.85 Mbit/s
95th percentile per-packet one-way delay: 133.133 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 12.89 Mbit/s
95th percentile per-packet one-way delay: 147.119 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 148.369 ms
Loss rate: 3.45%

Run 1: Report of Indigo — Data Link

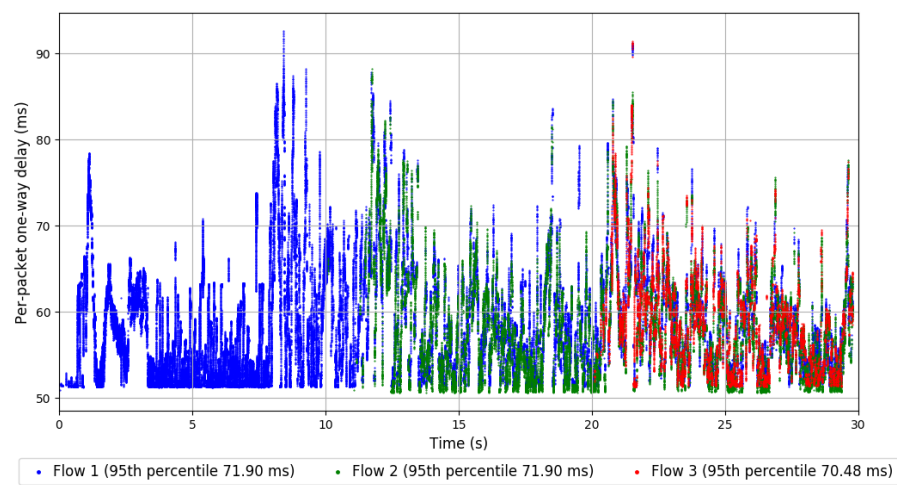
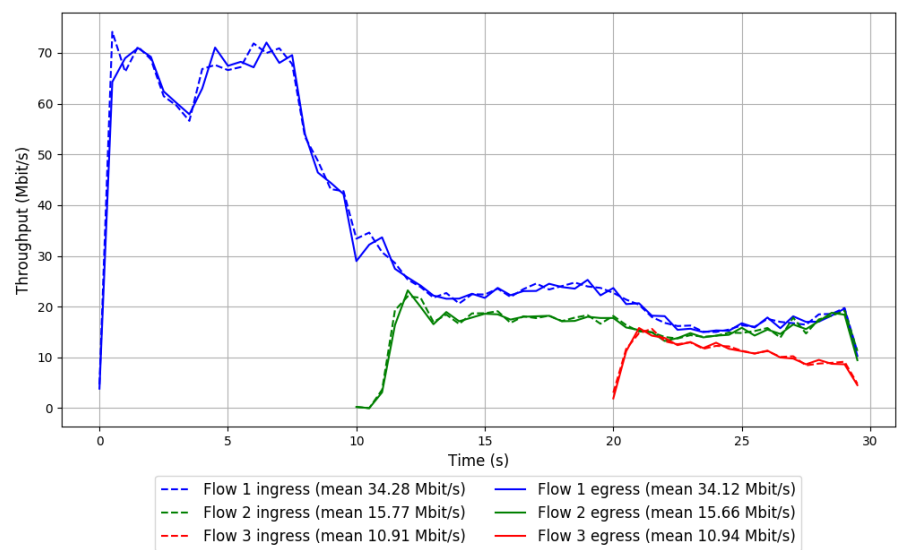


Run 2: Statistics of Indigo

Start at: 2017-12-01 07:40:40
End at: 2017-12-01 07:41:10
Local clock offset: 3.953 ms
Remote clock offset: -11.246 ms

Below is generated by plot.py at 2017-12-01 13:36:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.05 Mbit/s
95th percentile per-packet one-way delay: 71.769 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 71.902 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 71.902 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 70.484 ms
Loss rate: 0.81%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-01 08:03:42

End at: 2017-12-01 08:04:12

Local clock offset: 4.501 ms

Remote clock offset: 0.762 ms

Below is generated by plot.py at 2017-12-01 13:36:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 64.449 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 63.210 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 69.858 ms

Loss rate: 0.25%

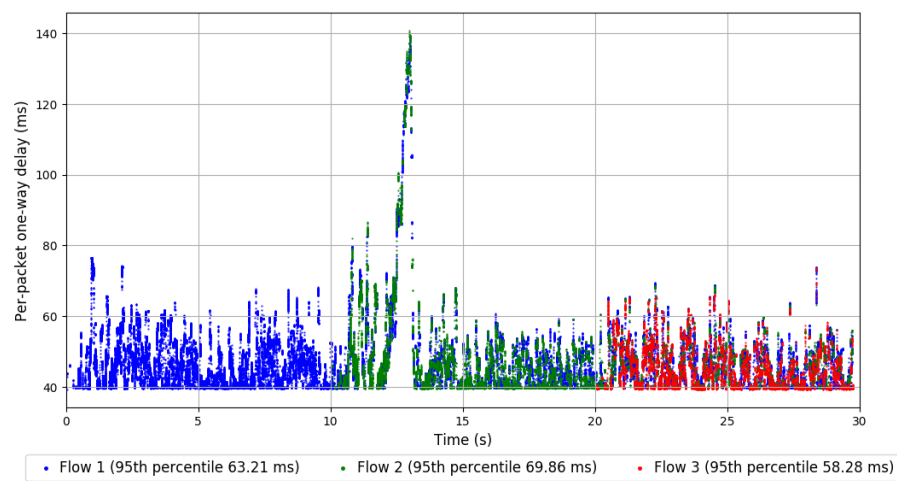
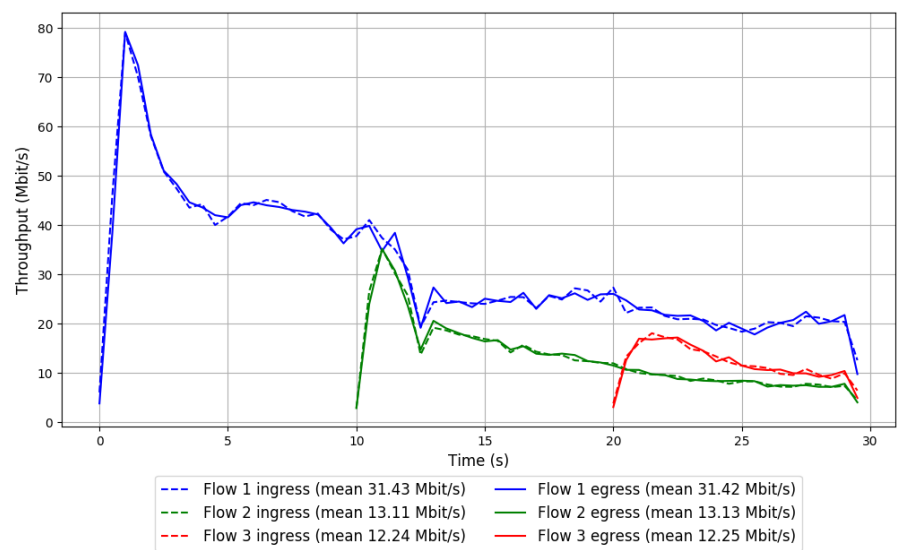
-- Flow 3:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 58.282 ms

Loss rate: 0.82%

Run 3: Report of Indigo — Data Link

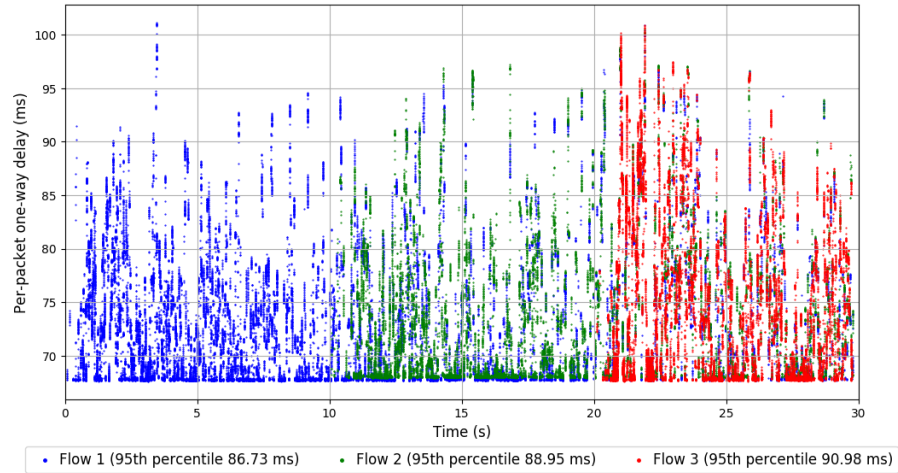
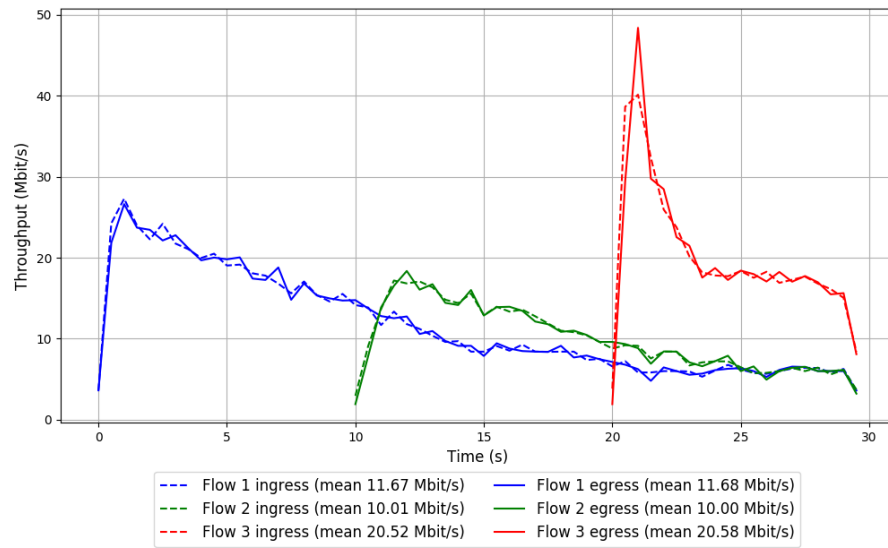


Run 4: Statistics of Indigo

Start at: 2017-12-01 08:21:25
End at: 2017-12-01 08:21:55
Local clock offset: 4.204 ms
Remote clock offset: -26.804 ms

Below is generated by plot.py at 2017-12-01 13:36:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.00 Mbit/s
95th percentile per-packet one-way delay: 88.947 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 86.735 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 88.951 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 90.978 ms
Loss rate: 0.70%

Run 4: Report of Indigo — Data Link

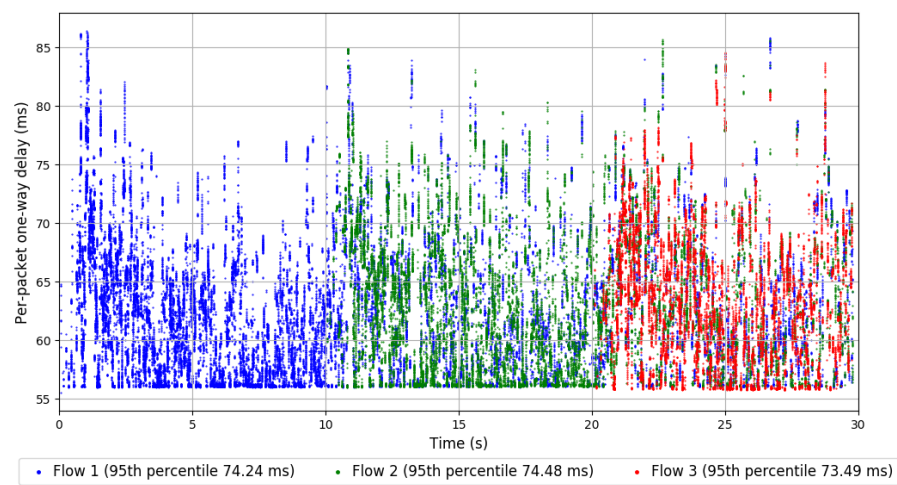
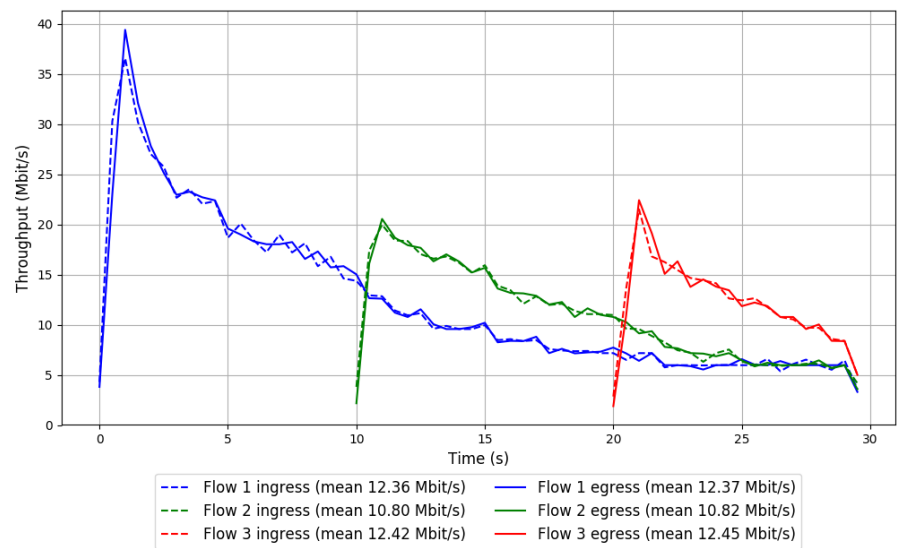


Run 5: Statistics of Indigo

Start at: 2017-12-01 08:39:46
End at: 2017-12-01 08:40:16
Local clock offset: 3.563 ms
Remote clock offset: -15.49 ms

Below is generated by plot.py at 2017-12-01 13:36:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.60 Mbit/s
95th percentile per-packet one-way delay: 74.244 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 12.37 Mbit/s
95th percentile per-packet one-way delay: 74.244 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 10.82 Mbit/s
95th percentile per-packet one-way delay: 74.476 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 73.493 ms
Loss rate: 0.71%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-01 08:57:10

End at: 2017-12-01 08:57:40

Local clock offset: 3.58 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2017-12-01 13:37:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 67.729 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 37.63 Mbit/s

95th percentile per-packet one-way delay: 62.853 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 69.217 ms

Loss rate: 0.33%

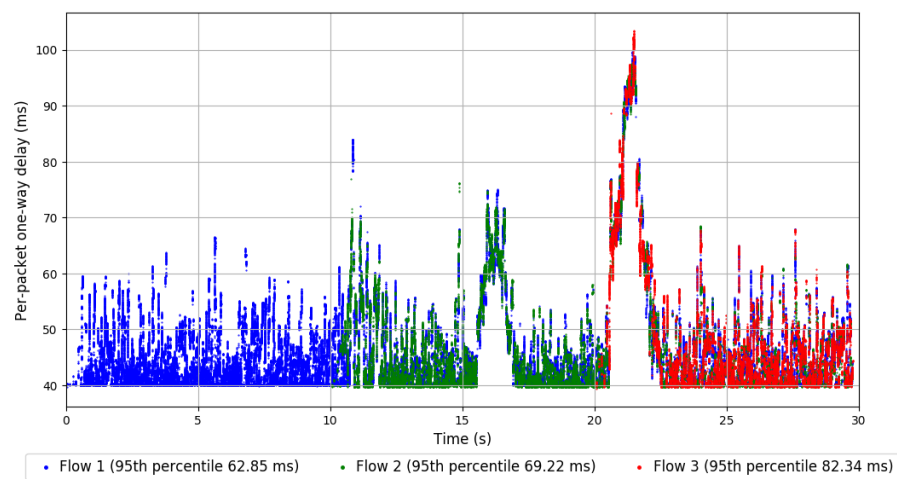
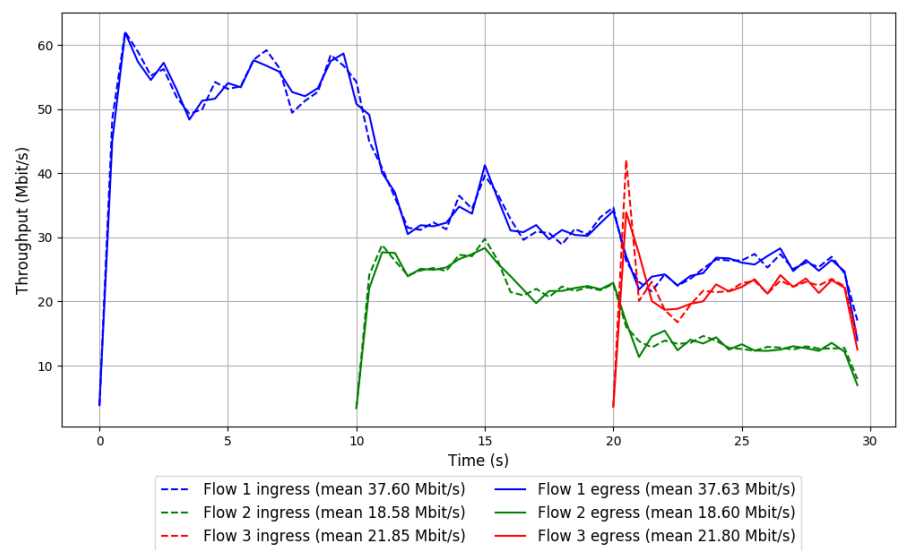
-- Flow 3:

Average throughput: 21.80 Mbit/s

95th percentile per-packet one-way delay: 82.336 ms

Loss rate: 1.09%

Run 6: Report of Indigo — Data Link

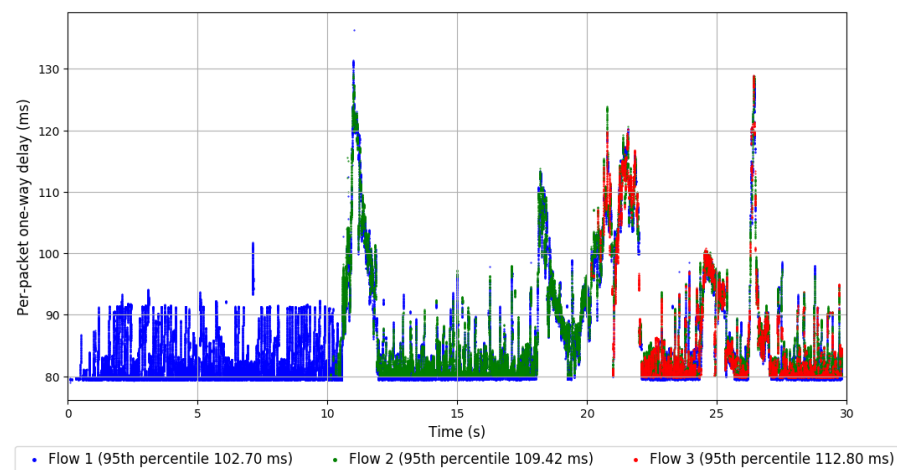
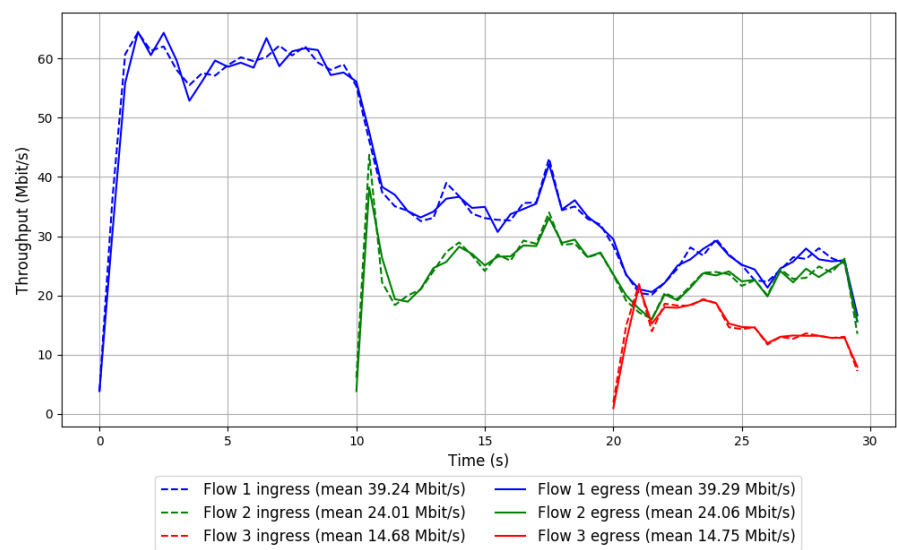


Run 7: Statistics of Indigo

Start at: 2017-12-01 09:14:44
End at: 2017-12-01 09:15:14
Local clock offset: 3.293 ms
Remote clock offset: -40.767 ms

Below is generated by plot.py at 2017-12-01 13:37:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.01 Mbit/s
95th percentile per-packet one-way delay: 106.816 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 39.29 Mbit/s
95th percentile per-packet one-way delay: 102.705 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 24.06 Mbit/s
95th percentile per-packet one-way delay: 109.419 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 112.800 ms
Loss rate: 0.59%

Run 7: Report of Indigo — Data Link

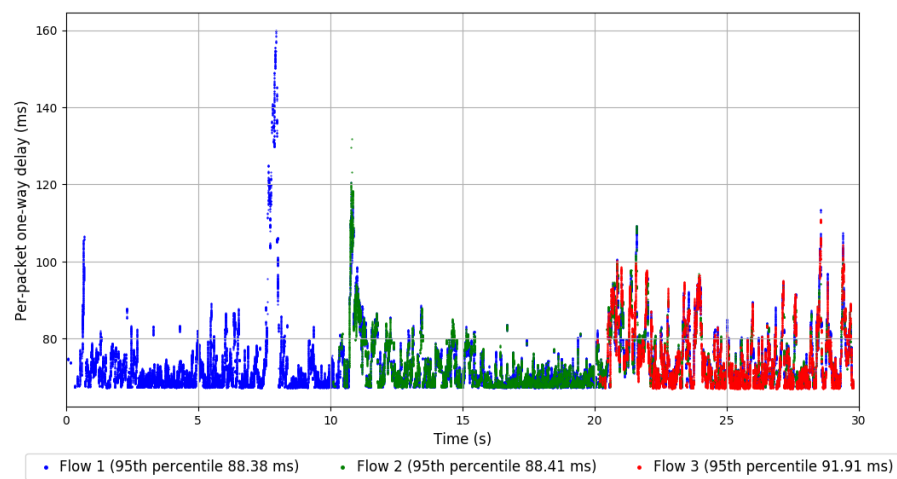
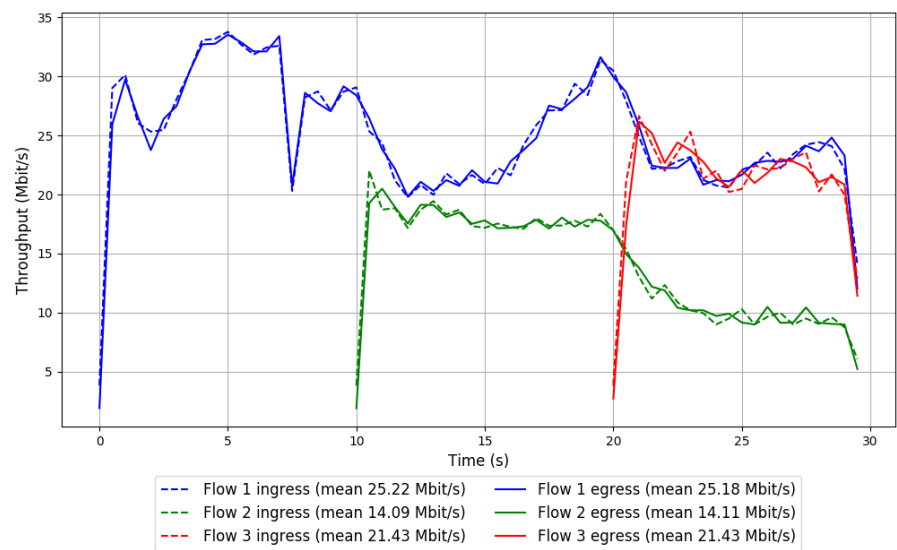


Run 8: Statistics of Indigo

Start at: 2017-12-01 09:35:05
End at: 2017-12-01 09:35:35
Local clock offset: 2.789 ms
Remote clock offset: -29.166 ms

Below is generated by plot.py at 2017-12-01 13:37:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.51 Mbit/s
95th percentile per-packet one-way delay: 89.599 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 25.18 Mbit/s
95th percentile per-packet one-way delay: 88.383 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 14.11 Mbit/s
95th percentile per-packet one-way delay: 88.406 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 21.43 Mbit/s
95th percentile per-packet one-way delay: 91.907 ms
Loss rate: 0.97%

Run 8: Report of Indigo — Data Link

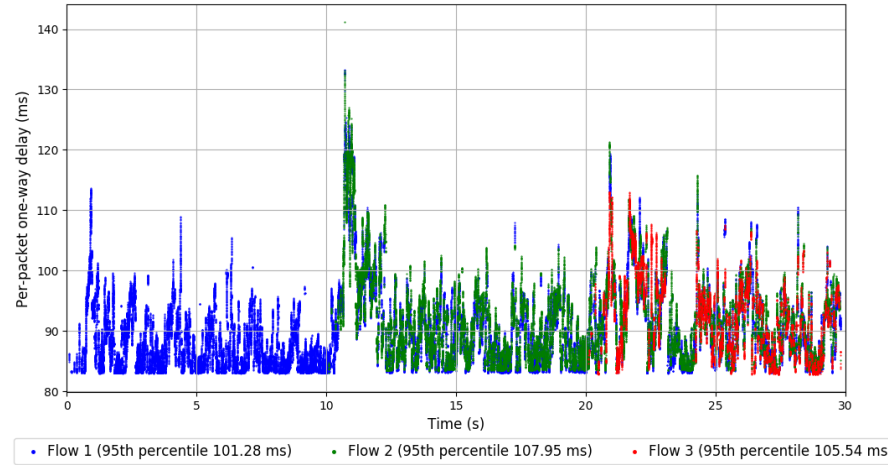
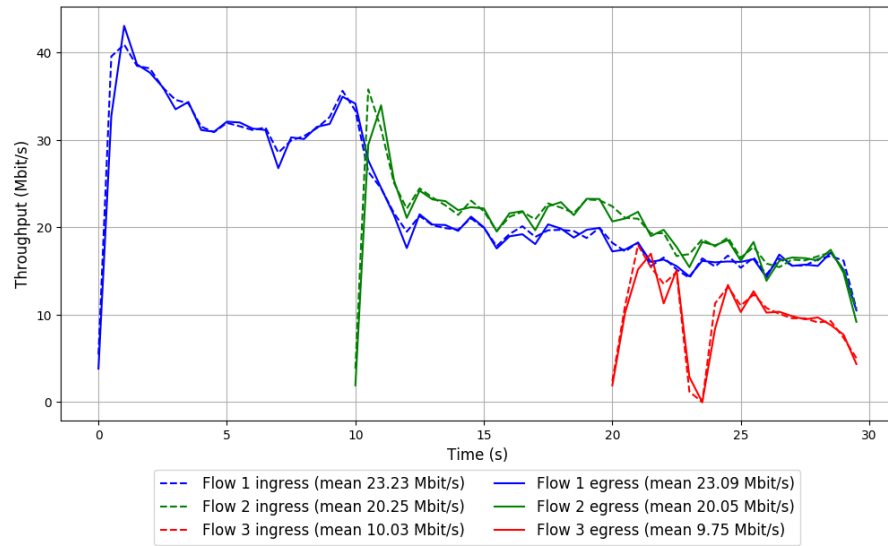


Run 9: Statistics of Indigo

Start at: 2017-12-01 09:52:20
End at: 2017-12-01 09:52:50
Local clock offset: 2.916 ms
Remote clock offset: -44.191 ms

Below is generated by plot.py at 2017-12-01 13:37:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.57 Mbit/s
95th percentile per-packet one-way delay: 104.601 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 101.278 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 107.950 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 105.544 ms
Loss rate: 3.19%

Run 9: Report of Indigo — Data Link

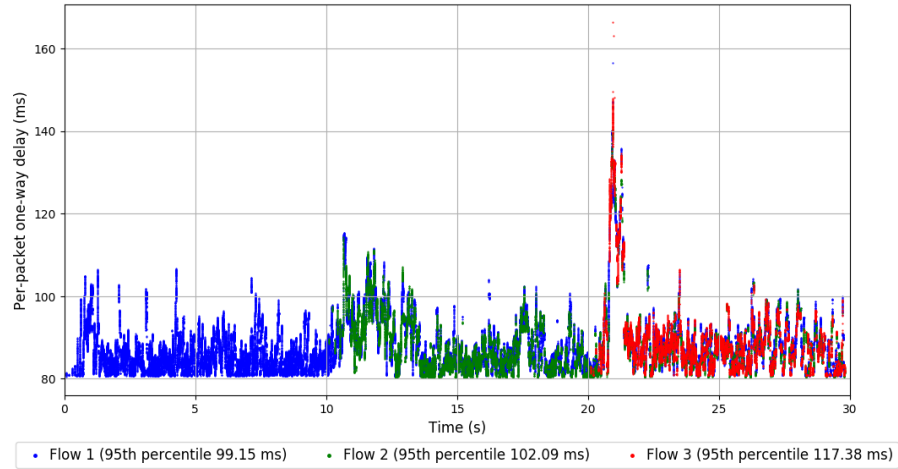
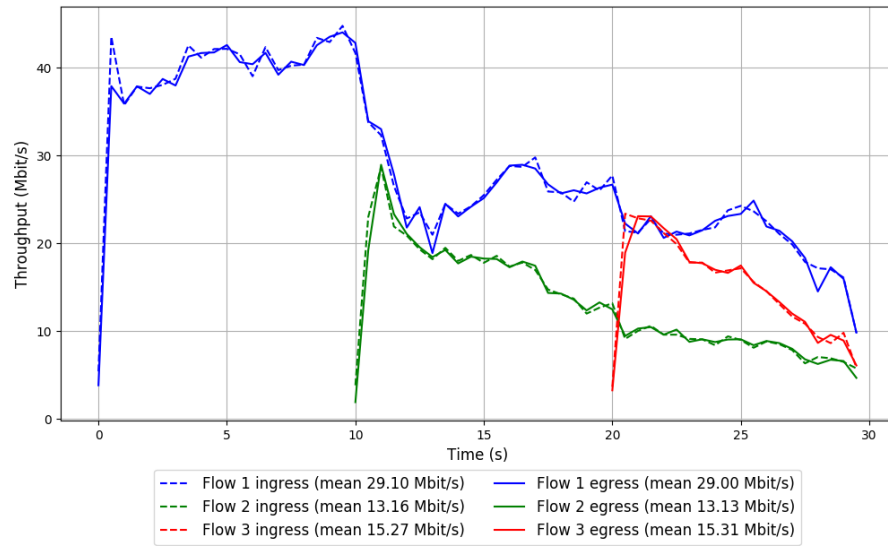


Run 10: Statistics of Indigo

Start at: 2017-12-01 10:09:35
End at: 2017-12-01 10:10:05
Local clock offset: 2.878 ms
Remote clock offset: -40.857 ms

Below is generated by plot.py at 2017-12-01 13:37:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.68 Mbit/s
95th percentile per-packet one-way delay: 100.507 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 29.00 Mbit/s
95th percentile per-packet one-way delay: 99.150 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 102.088 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 15.31 Mbit/s
95th percentile per-packet one-way delay: 117.382 ms
Loss rate: 0.79%

Run 10: Report of Indigo — Data Link

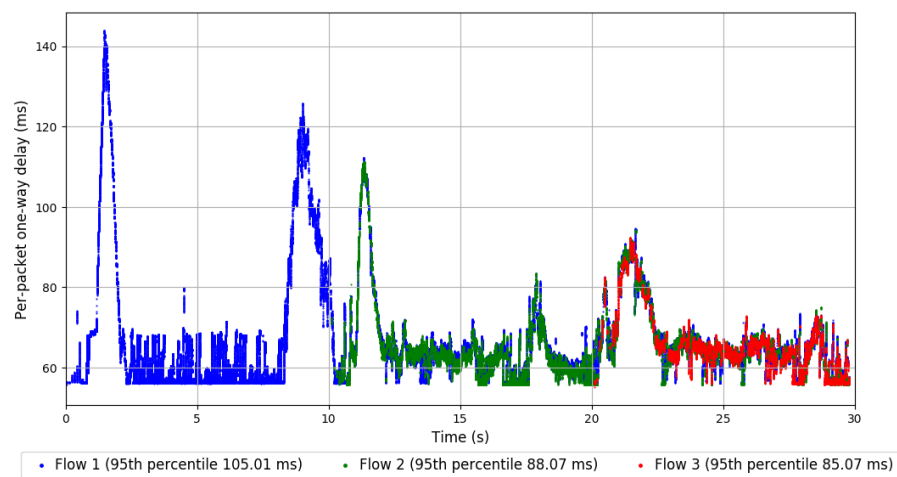
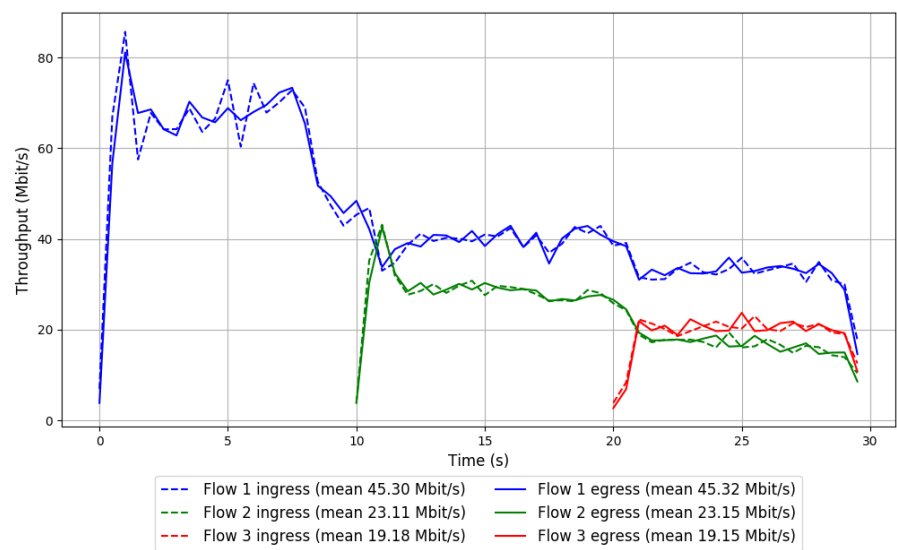


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-01 07:28:03
End at: 2017-12-01 07:28:33
Local clock offset: 3.212 ms
Remote clock offset: -16.926 ms

# Below is generated by plot.py at 2017-12-01 13:37:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.87 Mbit/s
95th percentile per-packet one-way delay: 99.652 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 105.006 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 23.15 Mbit/s
95th percentile per-packet one-way delay: 88.068 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 85.074 ms
Loss rate: 1.00%
```

Run 1: Report of Indigo-calib — Data Link

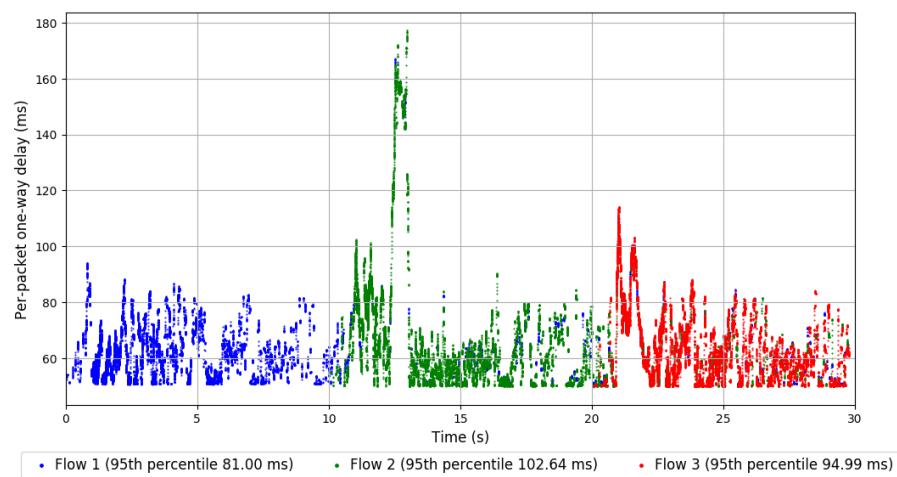
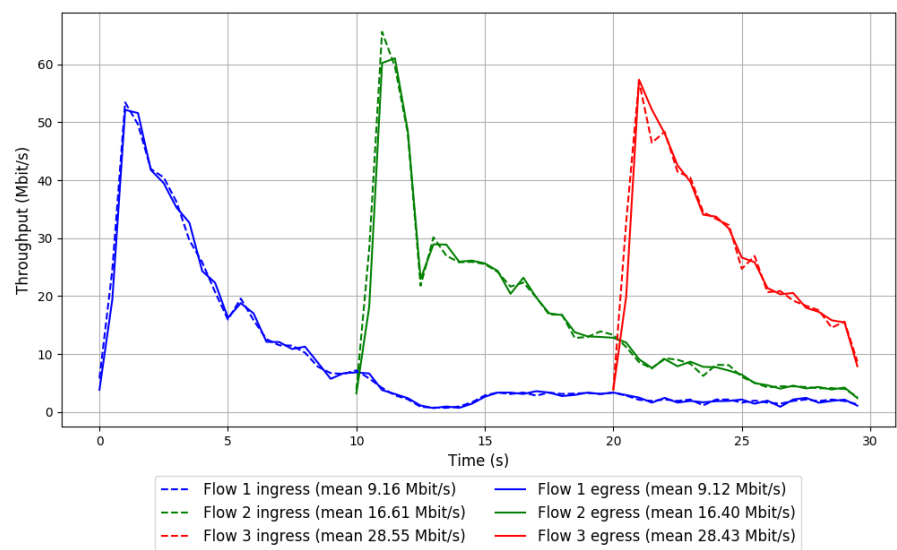


Run 2: Statistics of Indigo-calib

Start at: 2017-12-01 07:46:54
End at: 2017-12-01 07:47:24
Local clock offset: 4.138 ms
Remote clock offset: -10.383 ms

Below is generated by plot.py at 2017-12-01 13:37:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.24 Mbit/s
95th percentile per-packet one-way delay: 91.874 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 81.002 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 102.638 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 28.43 Mbit/s
95th percentile per-packet one-way delay: 94.990 ms
Loss rate: 0.96%

Run 2: Report of Indigo-calib — Data Link

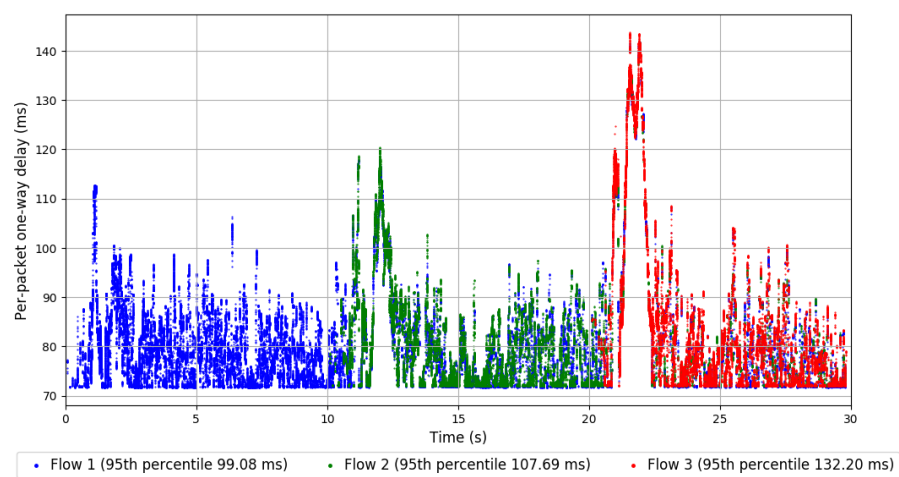
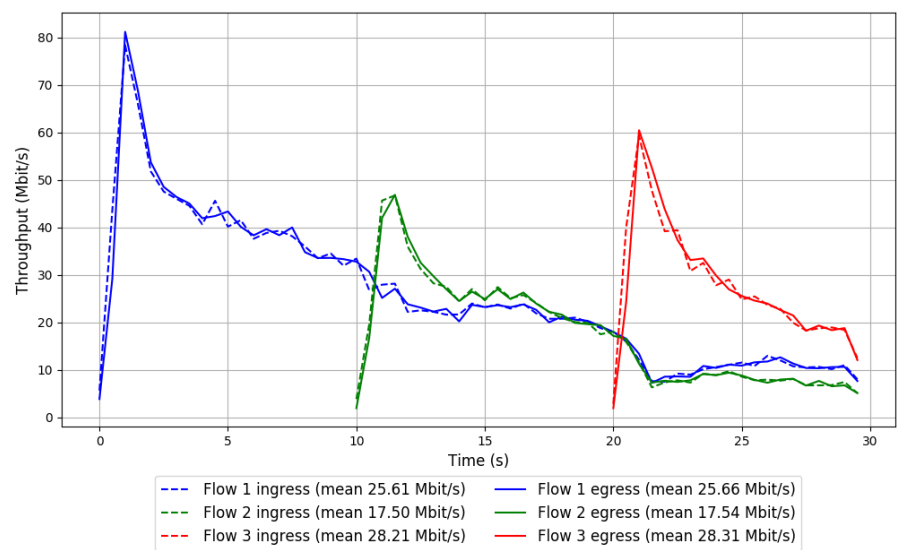


Run 3: Statistics of Indigo-calib

Start at: 2017-12-01 08:08:51
End at: 2017-12-01 08:09:21
Local clock offset: 4.66 ms
Remote clock offset: -30.975 ms

Below is generated by plot.py at 2017-12-01 13:37:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.48 Mbit/s
95th percentile per-packet one-way delay: 112.484 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 25.66 Mbit/s
95th percentile per-packet one-way delay: 99.078 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 17.54 Mbit/s
95th percentile per-packet one-way delay: 107.692 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 28.31 Mbit/s
95th percentile per-packet one-way delay: 132.196 ms
Loss rate: 0.64%

Run 3: Report of Indigo-calib — Data Link

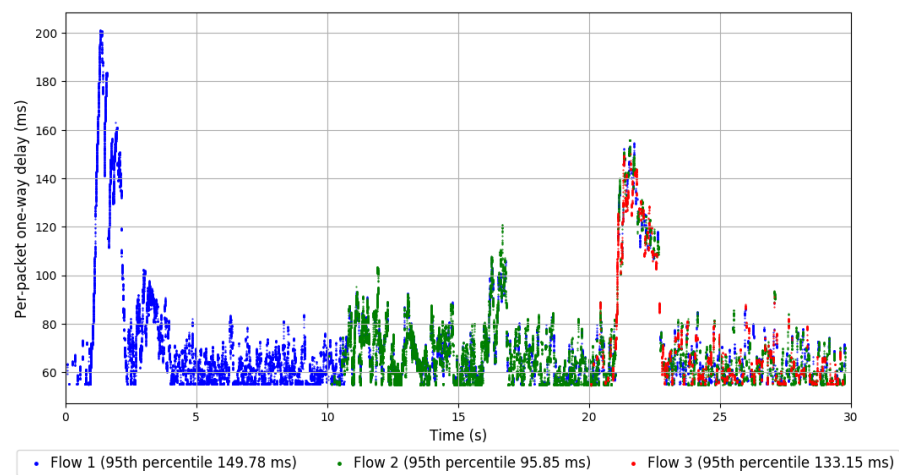
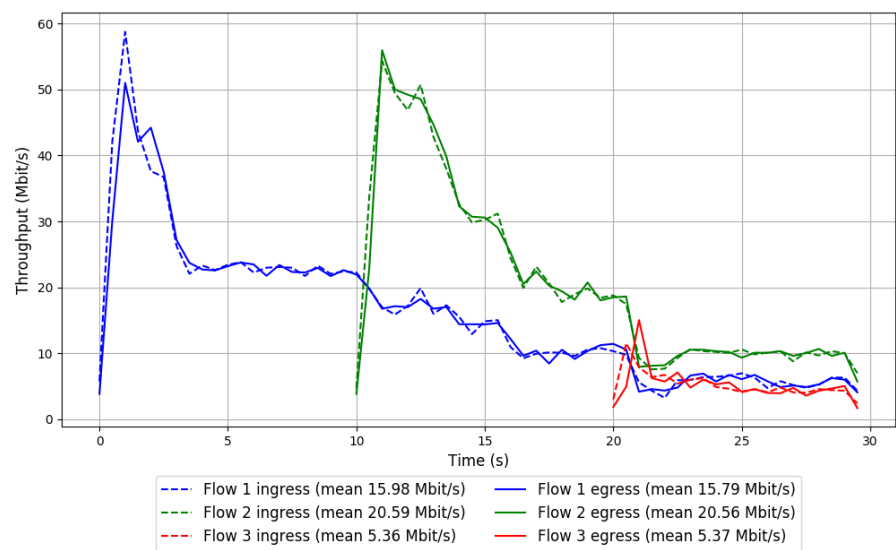


Run 4: Statistics of Indigo-calib

Start at: 2017-12-01 08:27:13
End at: 2017-12-01 08:27:43
Local clock offset: 4.168 ms
Remote clock offset: -13.852 ms

Below is generated by plot.py at 2017-12-01 13:37:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 135.070 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 149.784 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 95.850 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 133.150 ms
Loss rate: 0.74%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-01 08:44:49

End at: 2017-12-01 08:45:19

Local clock offset: 3.526 ms

Remote clock offset: 1.212 ms

Below is generated by plot.py at 2017-12-01 13:37:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 89.126 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 43.13 Mbit/s

95th percentile per-packet one-way delay: 88.888 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 14.75 Mbit/s

95th percentile per-packet one-way delay: 98.194 ms

Loss rate: 0.32%

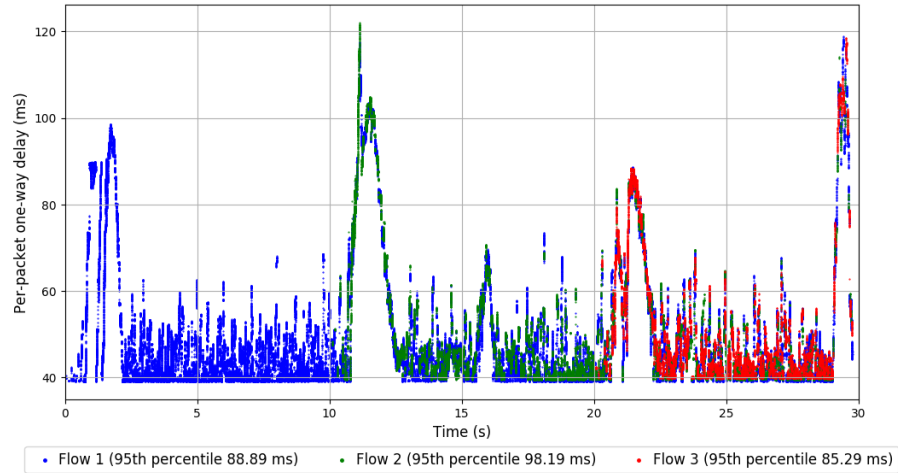
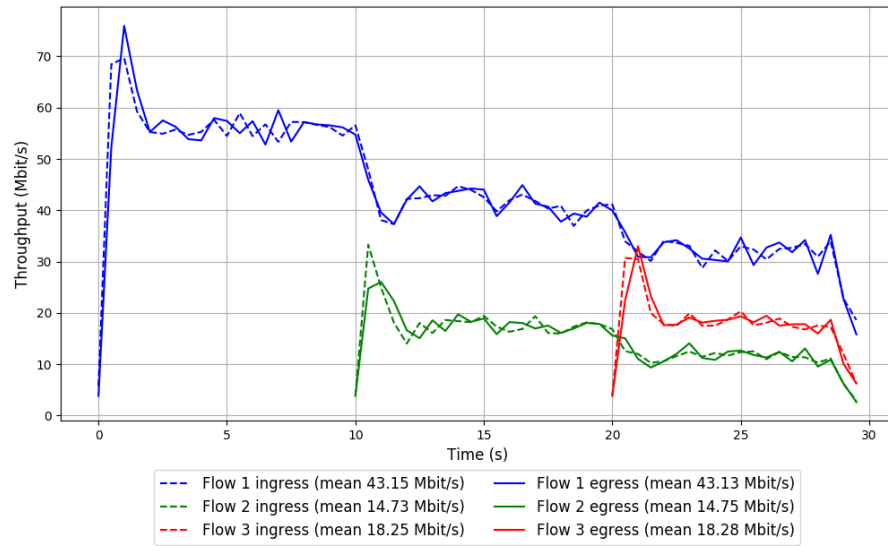
-- Flow 3:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 85.286 ms

Loss rate: 0.76%

Run 5: Report of Indigo-calib — Data Link

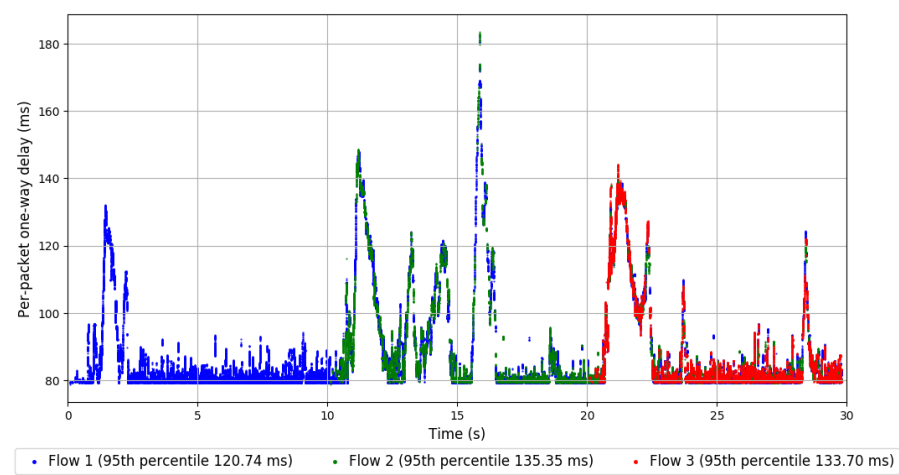
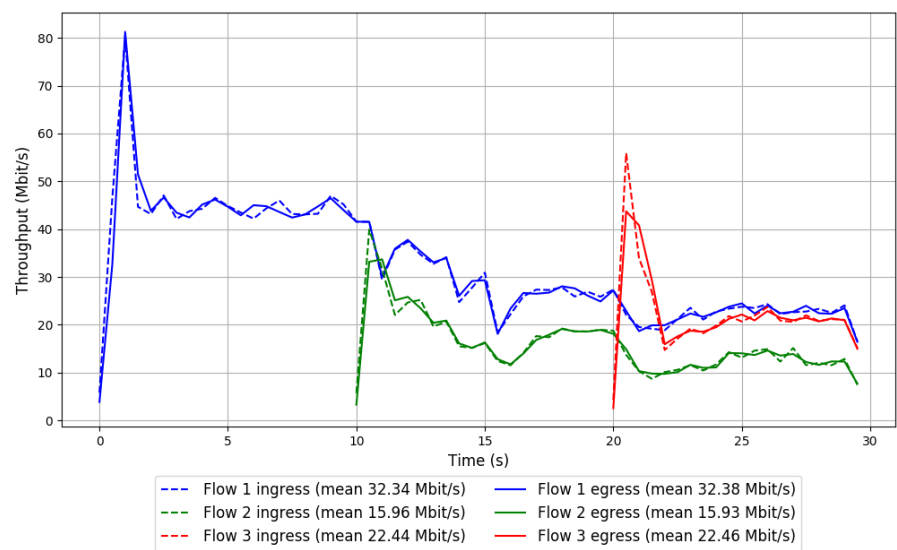


Run 6: Statistics of Indigo-calib

Start at: 2017-12-01 09:02:17
End at: 2017-12-01 09:02:47
Local clock offset: 3.248 ms
Remote clock offset: -39.89 ms

Below is generated by plot.py at 2017-12-01 13:37:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 125.751 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 120.743 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 135.349 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 22.46 Mbit/s
95th percentile per-packet one-way delay: 133.699 ms
Loss rate: 0.93%

Run 6: Report of Indigo-calib — Data Link

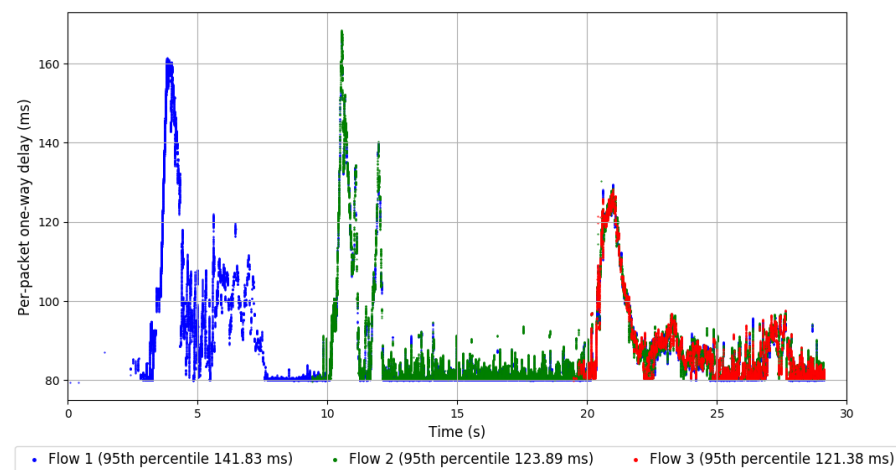
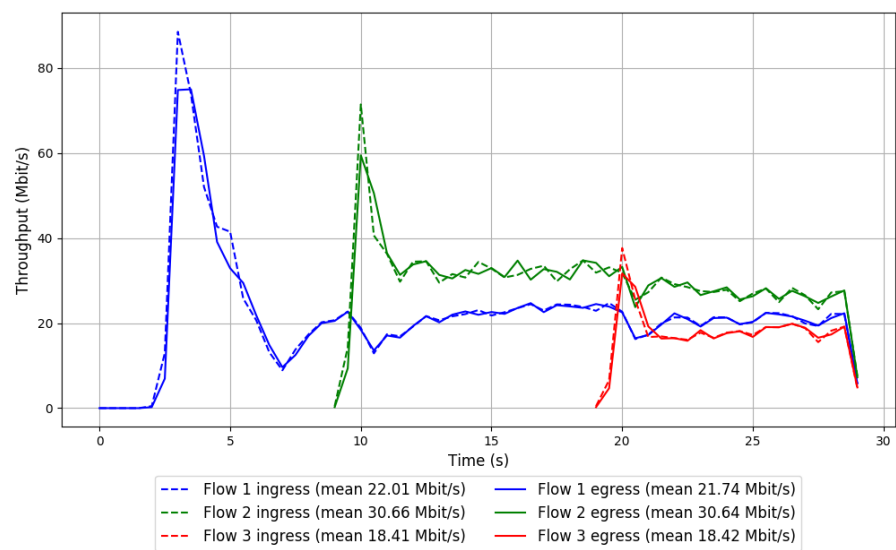


Run 7: Statistics of Indigo-calib

Start at: 2017-12-01 09:19:43
End at: 2017-12-01 09:20:13
Local clock offset: 3.073 ms
Remote clock offset: -41.568 ms

Below is generated by plot.py at 2017-12-01 13:37:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.63 Mbit/s
95th percentile per-packet one-way delay: 128.565 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 141.826 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 30.64 Mbit/s
95th percentile per-packet one-way delay: 123.885 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 121.382 ms
Loss rate: 0.88%

Run 7: Report of Indigo-calib — Data Link

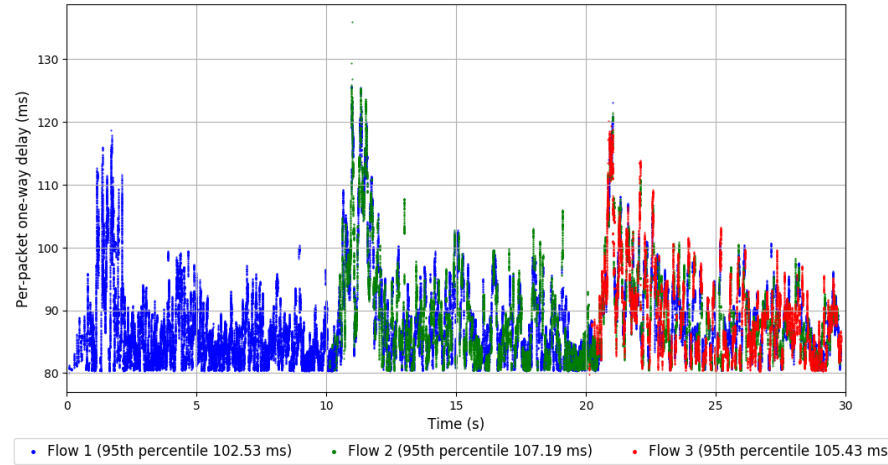
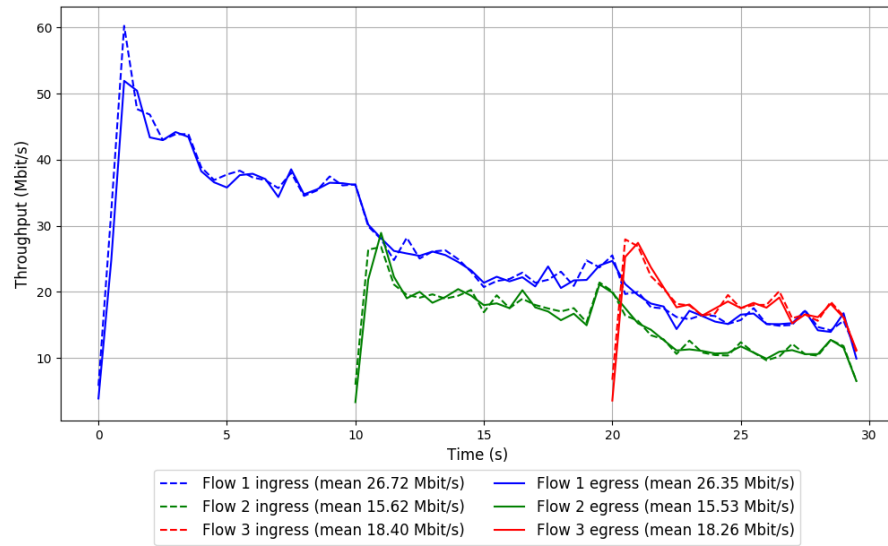


Run 8: Statistics of Indigo-calib

Start at: 2017-12-01 09:40:06
End at: 2017-12-01 09:40:36
Local clock offset: 2.699 ms
Remote clock offset: -42.358 ms

Below is generated by plot.py at 2017-12-01 13:37:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 104.424 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 26.35 Mbit/s
95th percentile per-packet one-way delay: 102.529 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 107.185 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 18.26 Mbit/s
95th percentile per-packet one-way delay: 105.428 ms
Loss rate: 1.64%

Run 8: Report of Indigo-calib — Data Link

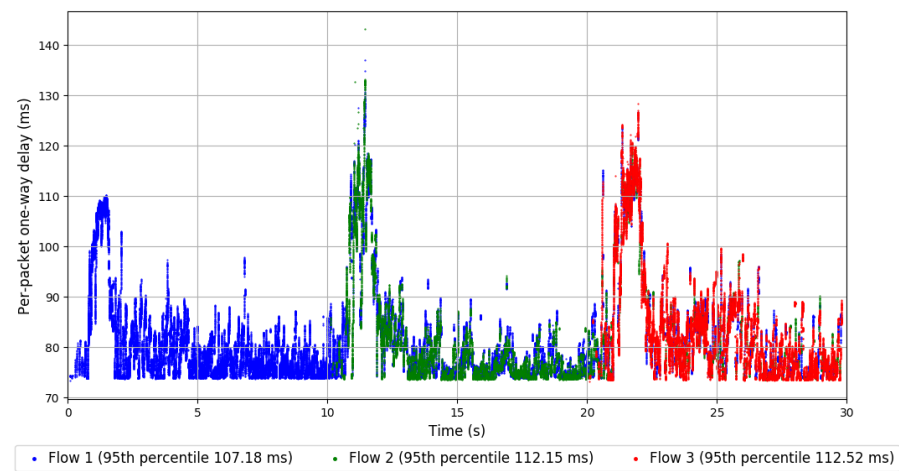
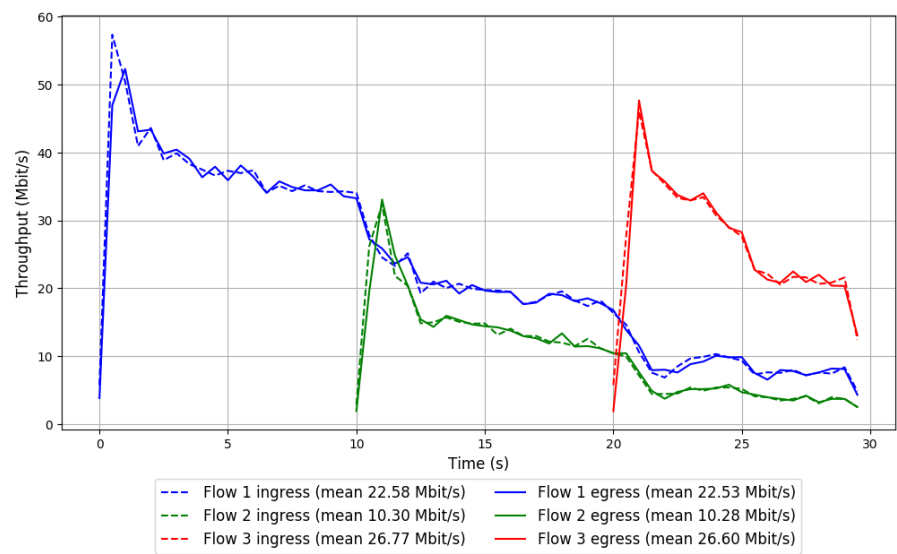


Run 9: Statistics of Indigo-calib

Start at: 2017-12-01 09:57:15
End at: 2017-12-01 09:57:45
Local clock offset: 2.924 ms
Remote clock offset: -34.313 ms

Below is generated by plot.py at 2017-12-01 13:37:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 109.066 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 107.176 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 112.151 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 26.60 Mbit/s
95th percentile per-packet one-way delay: 112.520 ms
Loss rate: 1.41%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-01 10:14:36
End at: 2017-12-01 10:15:06
Local clock offset: 3.136 ms
Remote clock offset: -43.784 ms

Below is generated by plot.py at 2017-12-01 13:37:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.46 Mbit/s
95th percentile per-packet one-way delay: 117.913 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 112.378 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 10.41 Mbit/s
95th percentile per-packet one-way delay: 130.822 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 19.61 Mbit/s
95th percentile per-packet one-way delay: 119.127 ms
Loss rate: 1.09%

Run 10: Report of Indigo-calib — Data Link

