

Pantheon Report

Generated at 2018-02-16 06:55:14 (UTC).

Tested in mahimahi: mm-delay 28 mm-loss uplink 0.0477 mm-link 0.57mbps-poisson.trace
0.57mbps-poisson.trace --uplink-queue=droptail --uplink-queue-args=packets=14

Repeated the test of 17 congestion control schemes 10 times.

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

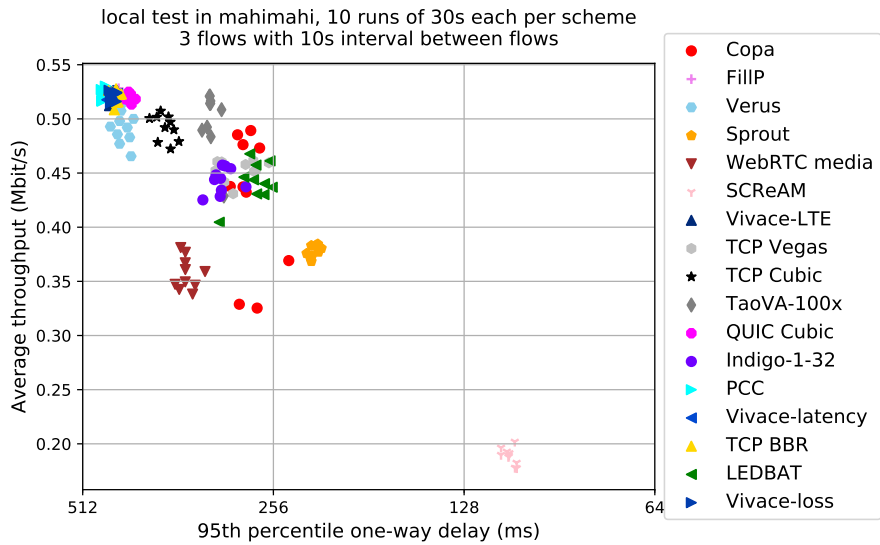
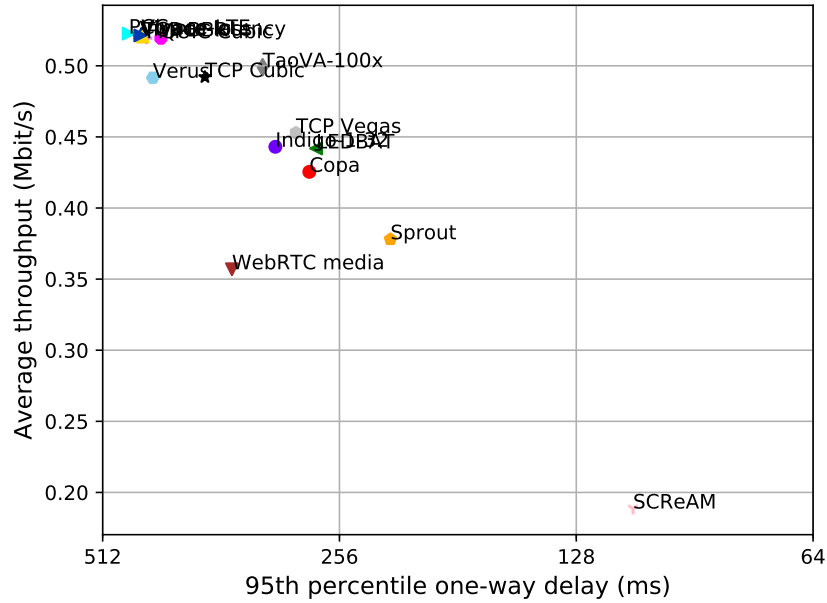
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

local test in mahimahi, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	0.31	0.22	0.21	436.59	469.35	475.14	17.71	28.69	34.38
TCP Cubic	10	0.27	0.22	0.23	367.84	385.58	395.25	6.75	8.57	13.00
LEDBAT	10	0.26	0.20	0.16	250.31	284.24	306.16	5.16	5.96	7.73
PCC	10	0.37	0.15	0.19	471.33	439.72	478.26	89.08	93.16	95.17
QUIC Cubic	10	0.30	0.23	0.23	410.33	450.88	448.58	22.31	33.27	42.52
SCReAM	10	0.09	0.10	0.11	103.18	110.64	112.72	5.25	5.17	5.22
WebRTC media	10	0.16	0.12	0.08	341.15	348.61	363.73	26.27	31.30	34.66
Sprout	10	0.20	0.18	0.17	208.22	225.67	232.89	6.15	7.10	10.80
TaoVA-100x	10	0.38	0.20	0.09	318.08	323.85	287.47	71.06	89.64	86.99
TCP Vegas	10	0.25	0.20	0.21	273.76	291.54	310.88	5.21	6.84	8.02
Verus	10	0.36	0.14	0.15	440.43	442.05	429.65	37.77	47.67	52.22
Copa	10	0.20	0.22	0.23	216.14	267.15	306.44	28.02	29.65	41.21
FillP	10	0.35	0.25	0.03	446.75	462.28	398.96	98.31	99.42	93.14
Indigo-1-32	10	0.24	0.19	0.24	275.70	321.19	355.03	8.65	12.51	19.28
Vivace-latency	10	0.34	0.23	0.14	450.89	463.87	462.85	75.02	82.66	87.99
Vivace-loss	10	0.34	0.22	0.11	453.52	462.32	467.24	74.49	82.72	87.56
Vivace-LTE	10	0.35	0.20	0.16	451.77	469.09	457.42	73.99	84.21	87.01

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 05:10:46

End at: 2018-02-16 05:11:16

Below is generated by plot.py at 2018-02-16 06:51:45

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.53 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 466.236 ms

Loss rate: 25.56%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 440.906 ms

Loss rate: 21.83%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 484.534 ms

Loss rate: 30.62%

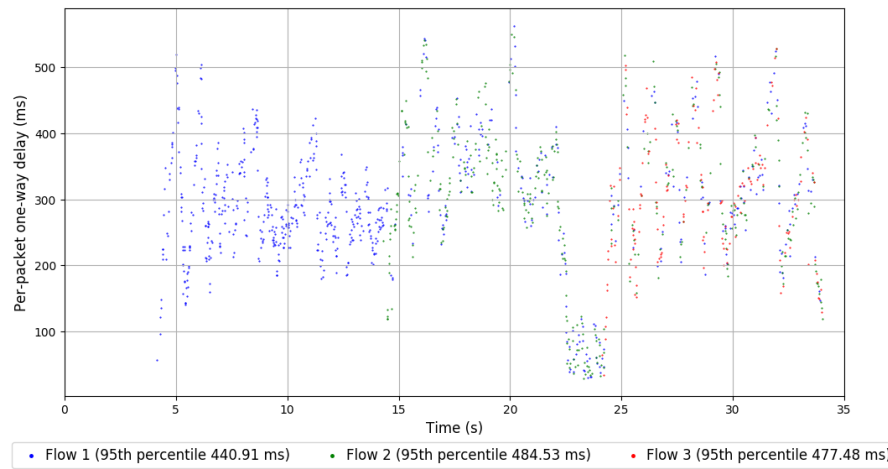
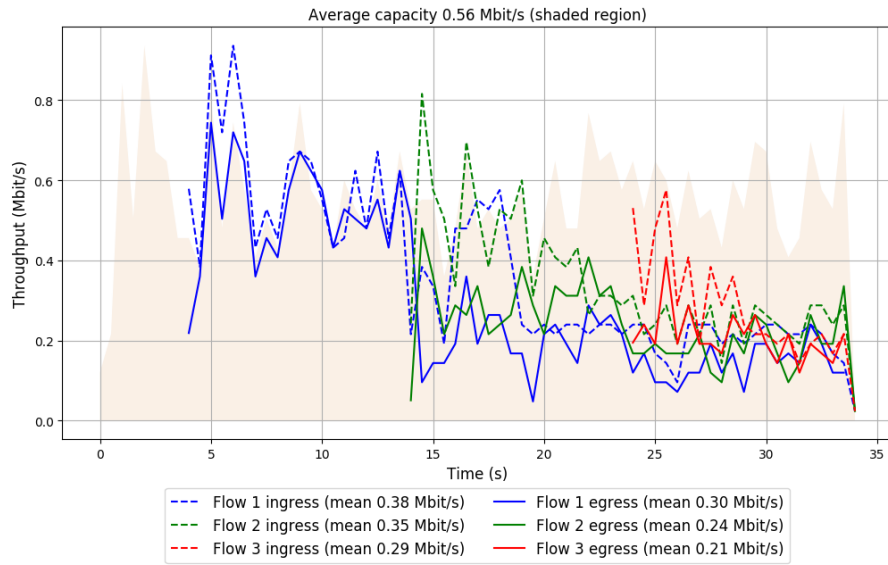
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 477.480 ms

Loss rate: 27.97%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-16 05:21:06

End at: 2018-02-16 05:21:36

Below is generated by plot.py at 2018-02-16 06:51:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.9% utilization)

95th percentile per-packet one-way delay: 461.107 ms

Loss rate: 27.09%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 449.937 ms

Loss rate: 19.54%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 481.072 ms

Loss rate: 37.24%

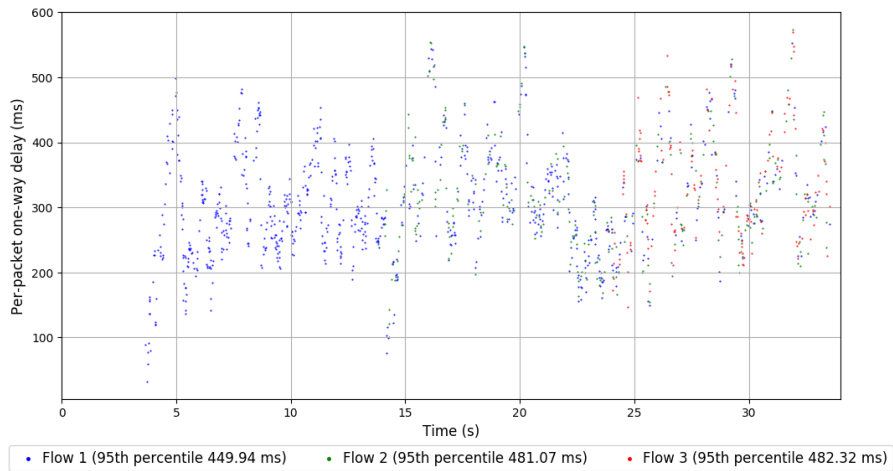
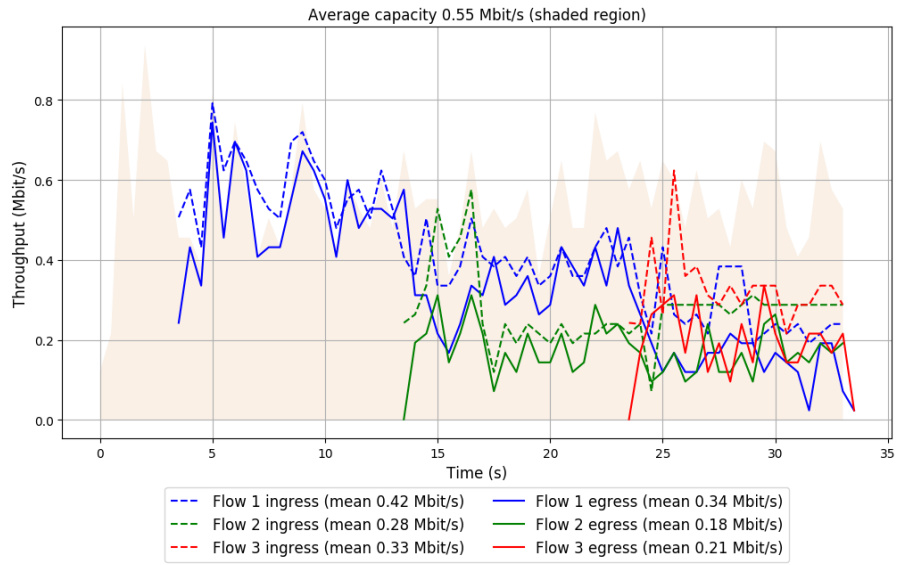
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 482.316 ms

Loss rate: 39.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-16 05:31:28

End at: 2018-02-16 05:31:58

Below is generated by plot.py at 2018-02-16 06:51:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (95.2% utilization)

95th percentile per-packet one-way delay: 459.619 ms

Loss rate: 22.85%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 433.881 ms

Loss rate: 16.19%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 465.971 ms

Loss rate: 28.87%

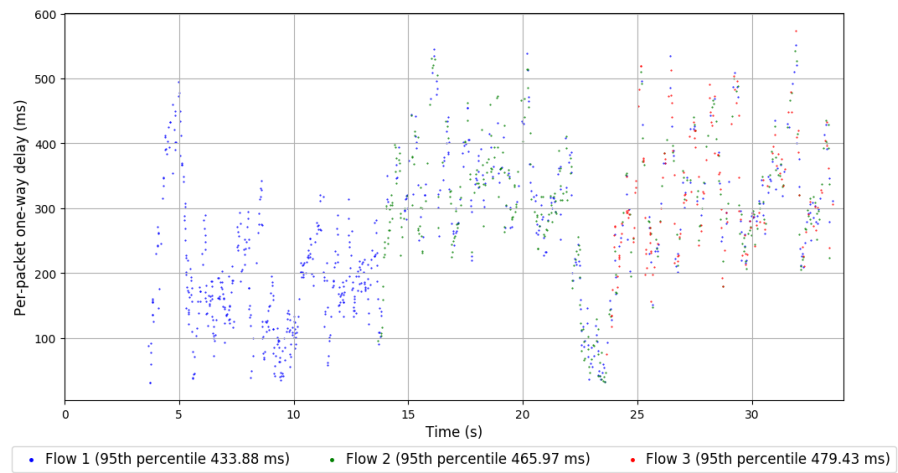
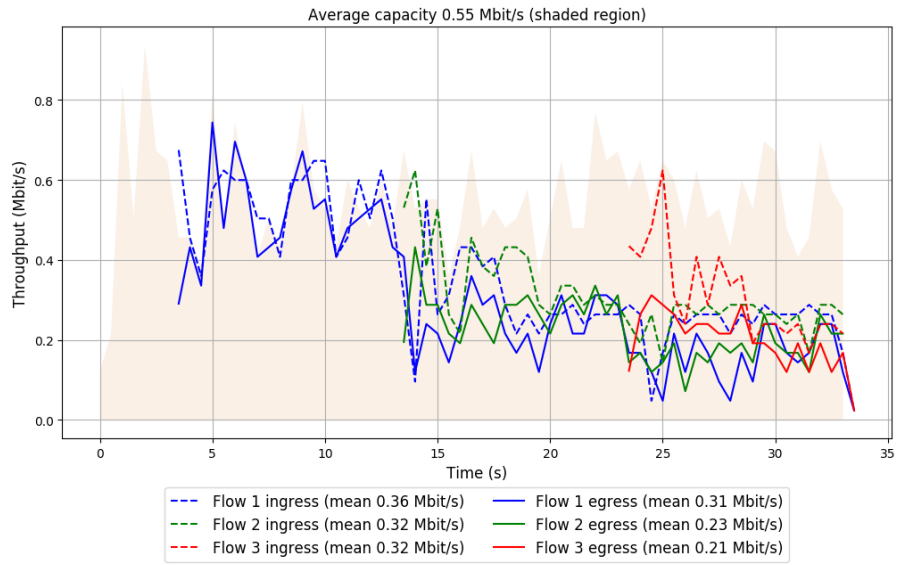
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 479.432 ms

Loss rate: 33.95%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-16 05:41:50

End at: 2018-02-16 05:42:20

Below is generated by plot.py at 2018-02-16 06:51:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.51 Mbit/s (91.6% utilization)

95th percentile per-packet one-way delay: 456.454 ms

Loss rate: 22.14%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 449.316 ms

Loss rate: 20.36%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 458.653 ms

Loss rate: 23.75%

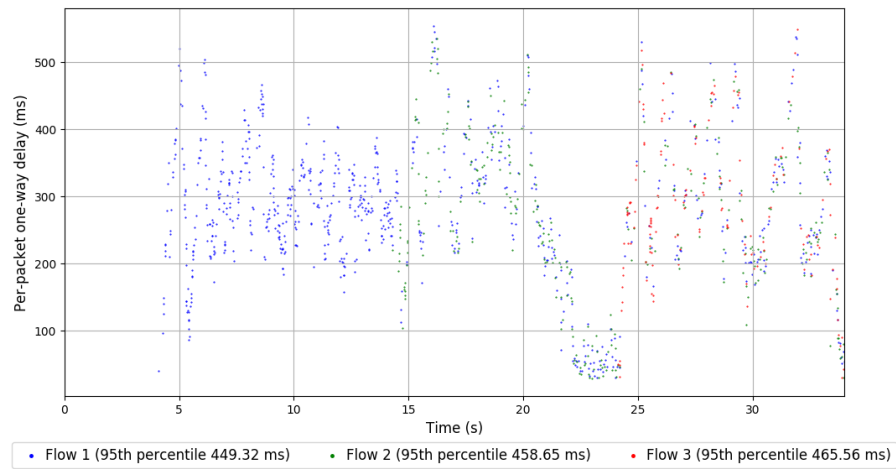
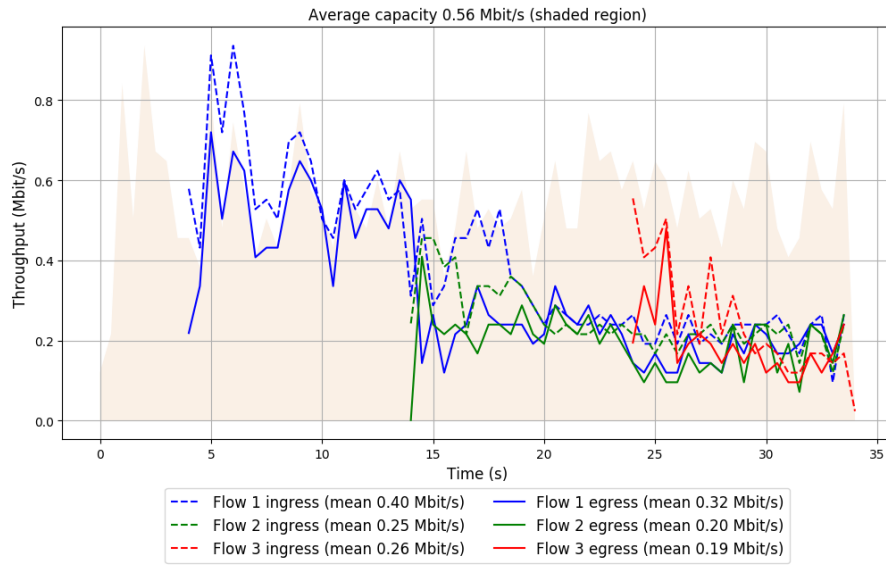
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 465.560 ms

Loss rate: 27.05%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-16 05:52:12

End at: 2018-02-16 05:52:42

Below is generated by plot.py at 2018-02-16 06:51:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.1% utilization)

95th percentile per-packet one-way delay: 460.033 ms

Loss rate: 26.93%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 436.568 ms

Loss rate: 17.48%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 463.428 ms

Loss rate: 31.61%

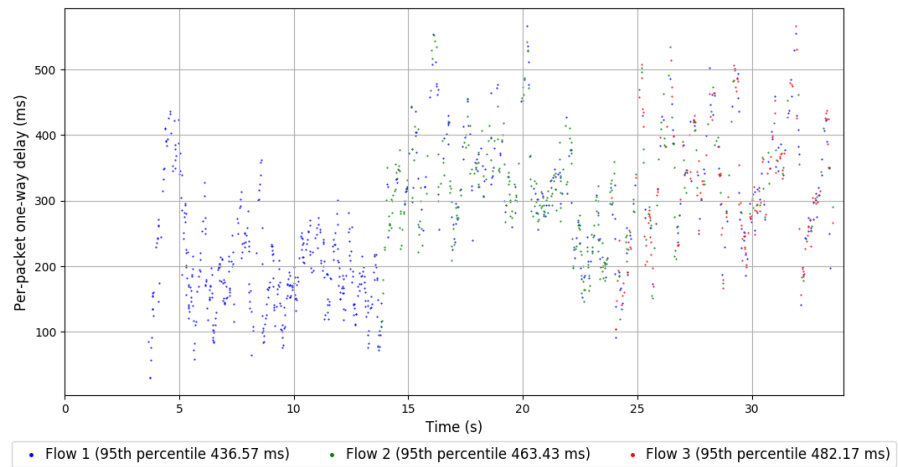
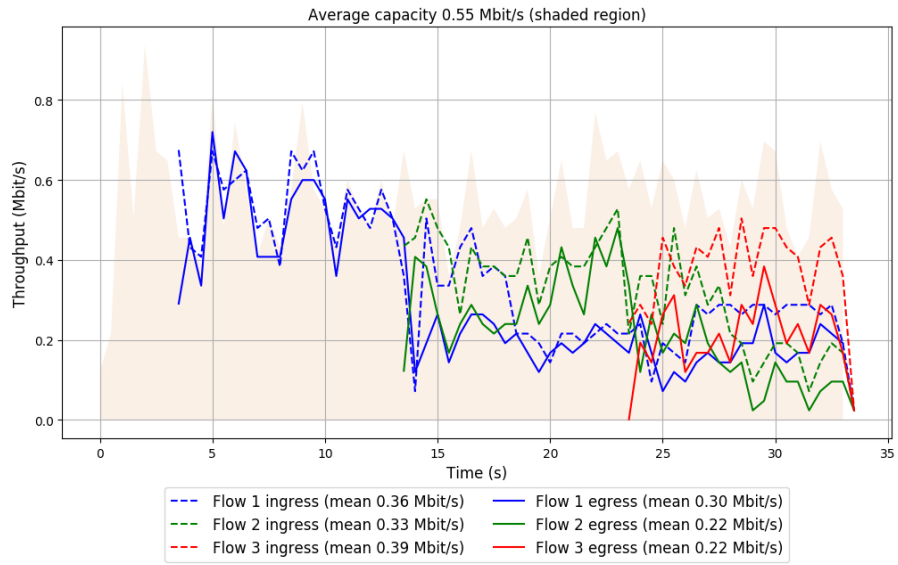
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 482.166 ms

Loss rate: 45.21%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 06:02:35

End at: 2018-02-16 06:03:05

Below is generated by plot.py at 2018-02-16 06:51:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 447.455 ms

Loss rate: 22.52%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 421.919 ms

Loss rate: 15.49%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 470.747 ms

Loss rate: 27.85%

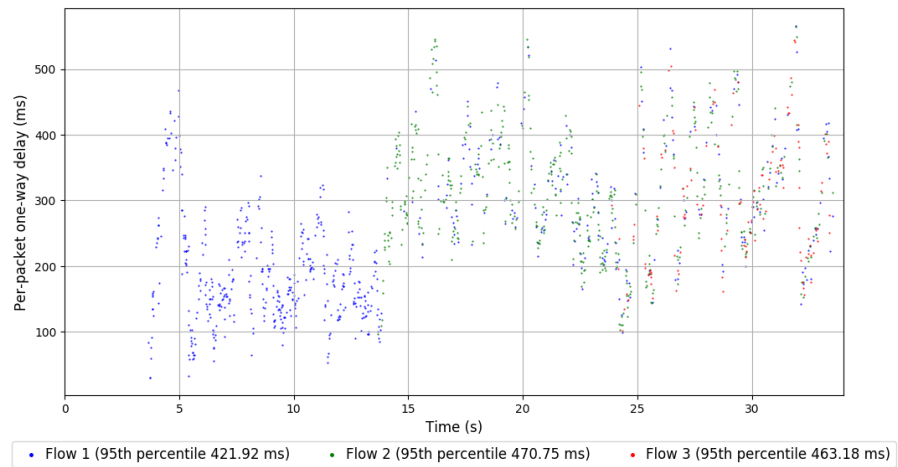
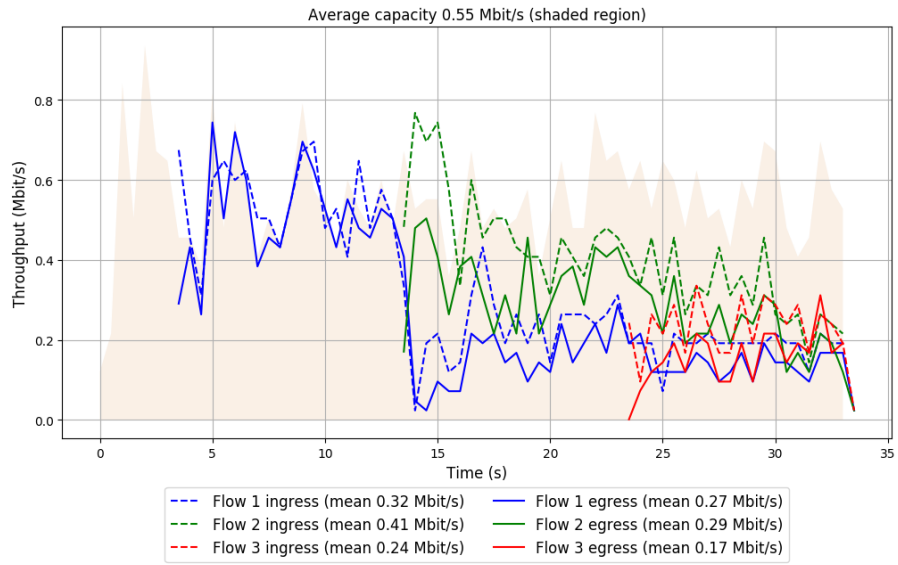
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 463.184 ms

Loss rate: 33.14%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-16 06:12:57

End at: 2018-02-16 06:13:27

Below is generated by plot.py at 2018-02-16 06:51:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 444.777 ms

Loss rate: 18.99%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 421.956 ms

Loss rate: 12.26%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 465.169 ms

Loss rate: 21.43%

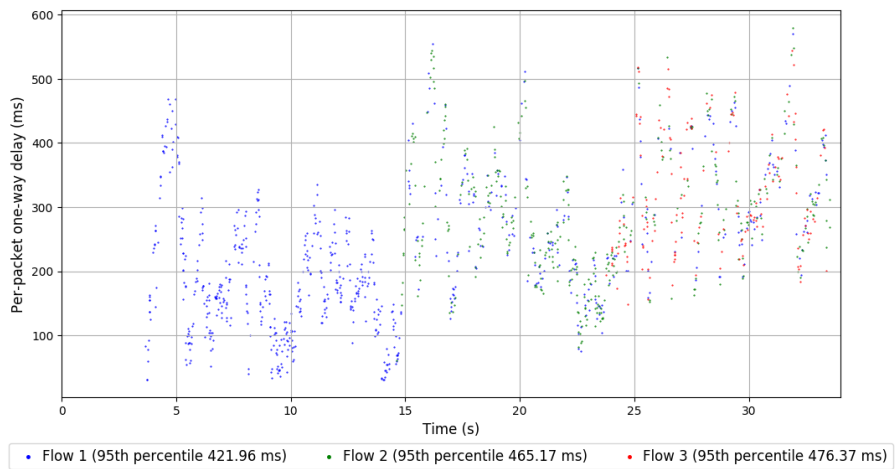
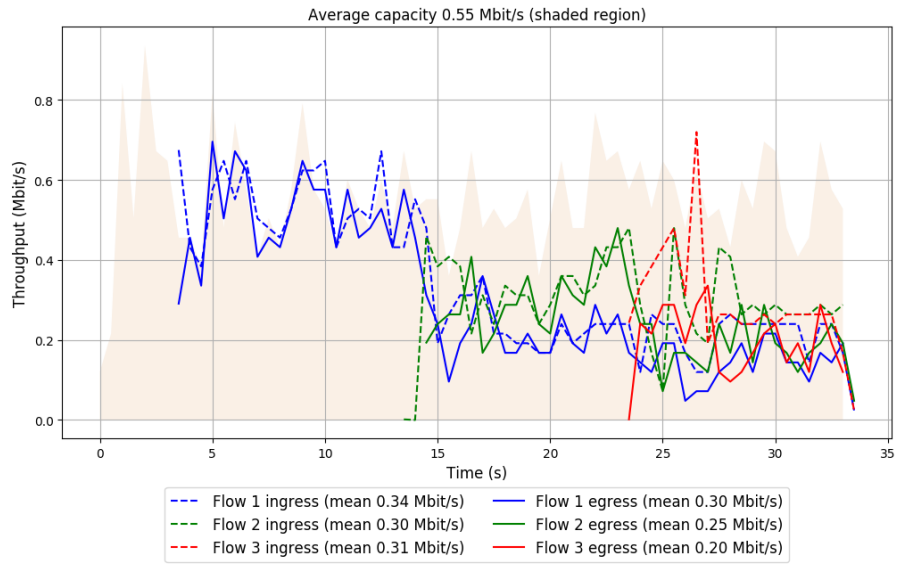
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 476.370 ms

Loss rate: 36.85%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 06:23:20

End at: 2018-02-16 06:23:50

Below is generated by plot.py at 2018-02-16 06:51:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.7% utilization)

95th percentile per-packet one-way delay: 453.526 ms

Loss rate: 23.08%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 434.451 ms

Loss rate: 17.92%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 467.059 ms

Loss rate: 26.93%

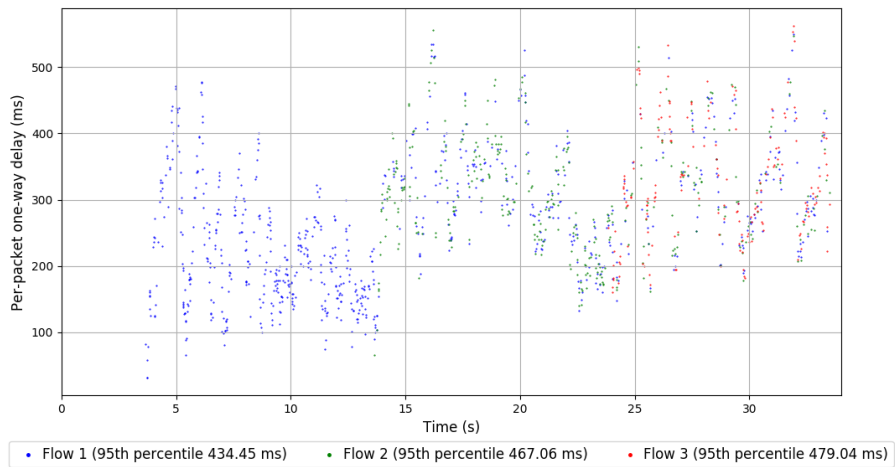
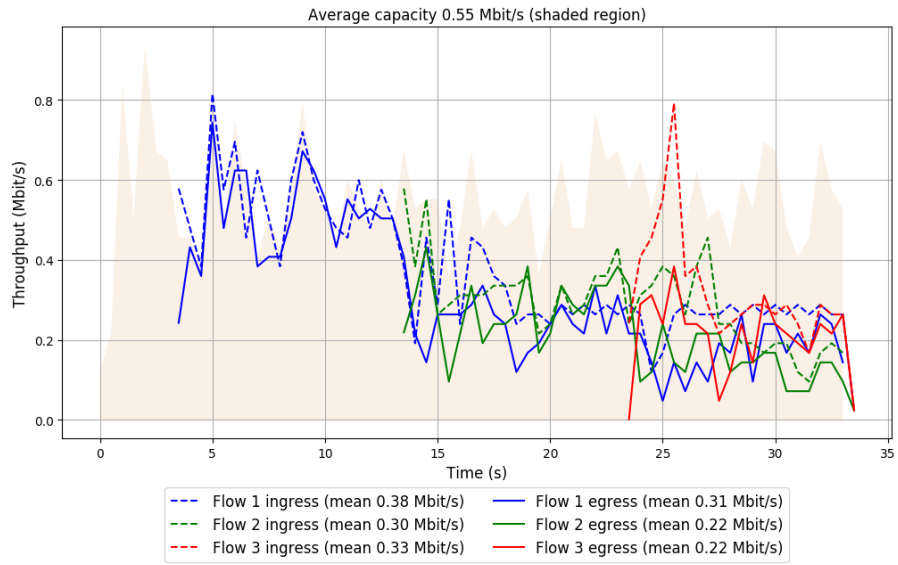
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 479.042 ms

Loss rate: 33.93%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 06:33:45

End at: 2018-02-16 06:34:15

Below is generated by plot.py at 2018-02-16 06:51:51

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.52 Mbit/s (92.8% utilization)

95th percentile per-packet one-way delay: 452.652 ms

Loss rate: 24.08%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 437.418 ms

Loss rate: 20.95%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 475.573 ms

Loss rate: 27.33%

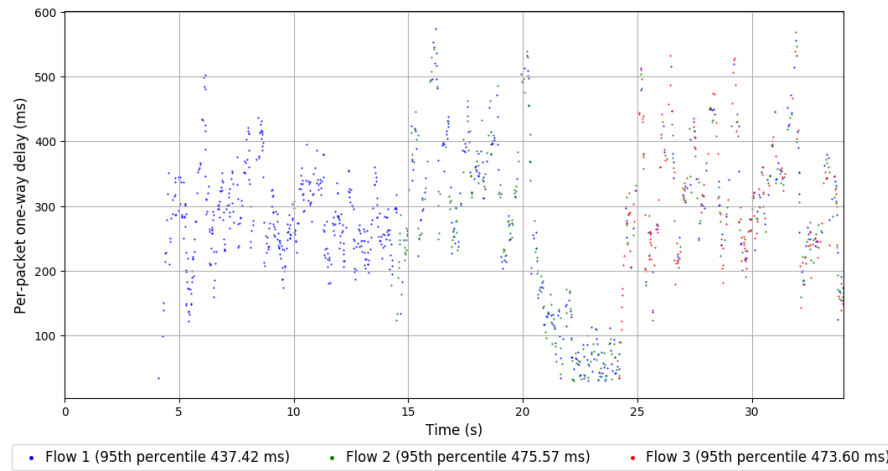
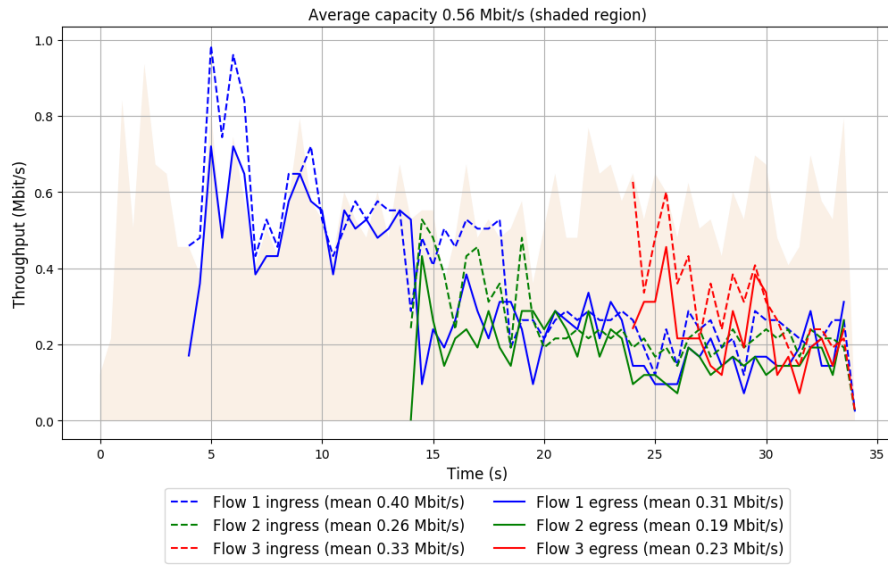
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 473.595 ms

Loss rate: 30.28%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 06:44:07

End at: 2018-02-16 06:44:37

Below is generated by plot.py at 2018-02-16 06:51:52

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.5% utilization)

95th percentile per-packet one-way delay: 450.120 ms

Loss rate: 21.62%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 439.565 ms

Loss rate: 15.04%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 461.261 ms

Loss rate: 31.27%

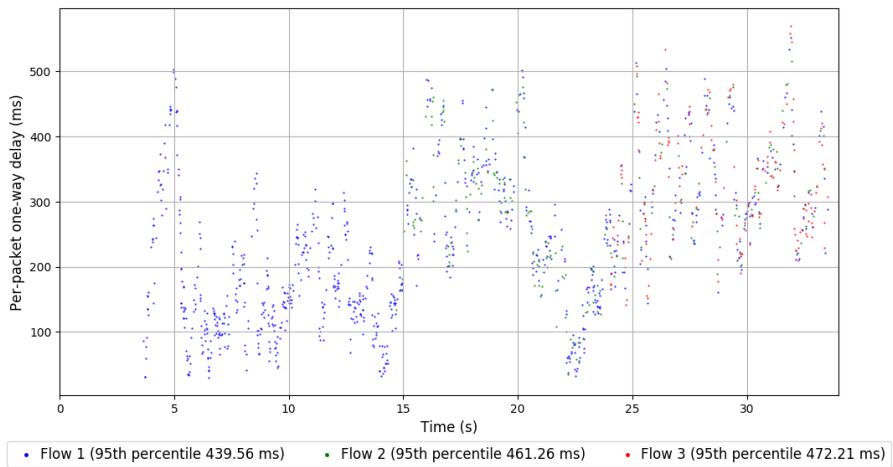
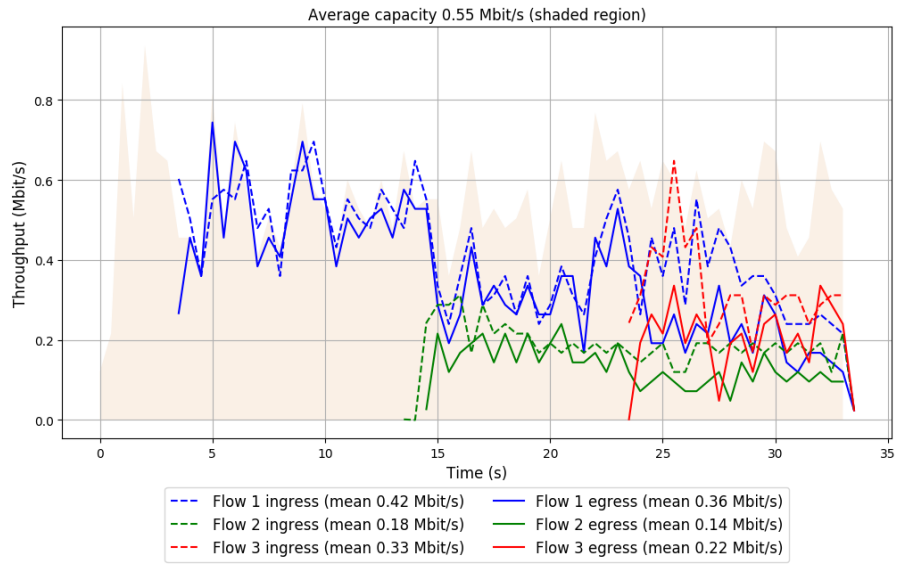
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 472.214 ms

Loss rate: 36.25%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 05:15:56

End at: 2018-02-16 05:16:26

Below is generated by plot.py at 2018-02-16 06:51:52

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.50 Mbit/s (90.9% utilization)

95th percentile per-packet one-way delay: 391.222 ms

Loss rate: 7.76%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 387.167 ms

Loss rate: 6.95%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 384.517 ms

Loss rate: 6.52%

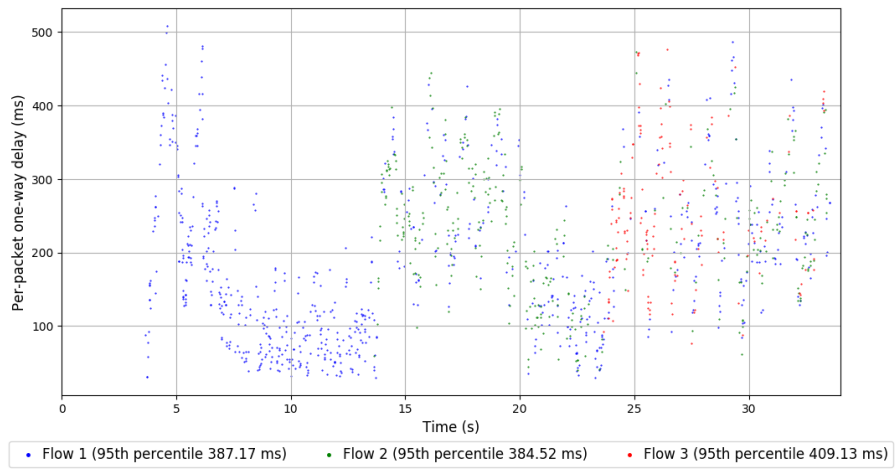
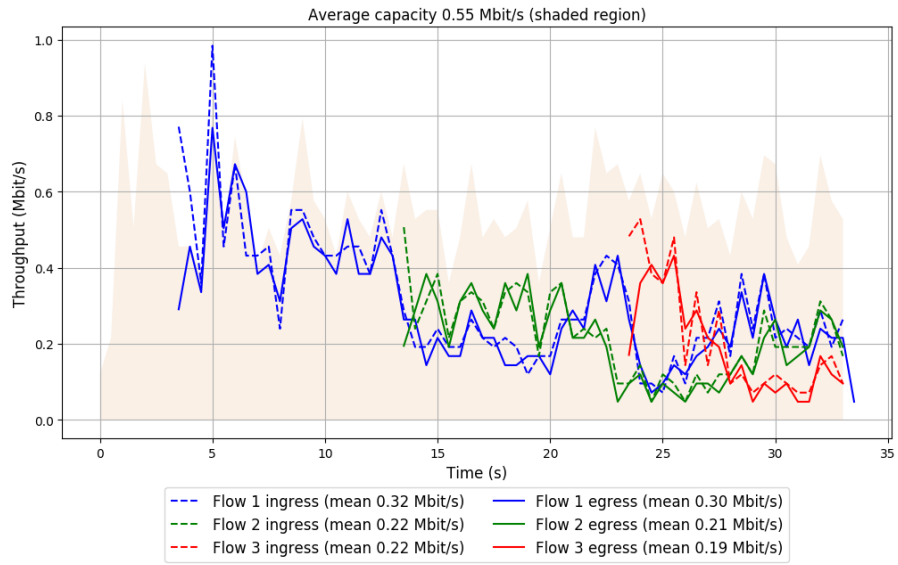
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 409.132 ms

Loss rate: 13.96%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-16 05:26:18

End at: 2018-02-16 05:26:48

Below is generated by plot.py at 2018-02-16 06:51:53

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.50 Mbit/s (90.1% utilization)

95th percentile per-packet one-way delay: 372.349 ms

Loss rate: 6.92%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 359.827 ms

Loss rate: 5.38%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 394.640 ms

Loss rate: 6.52%

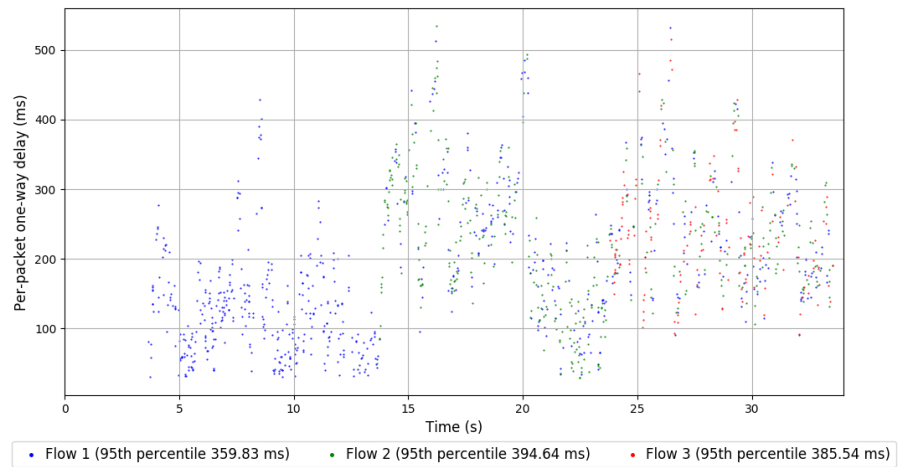
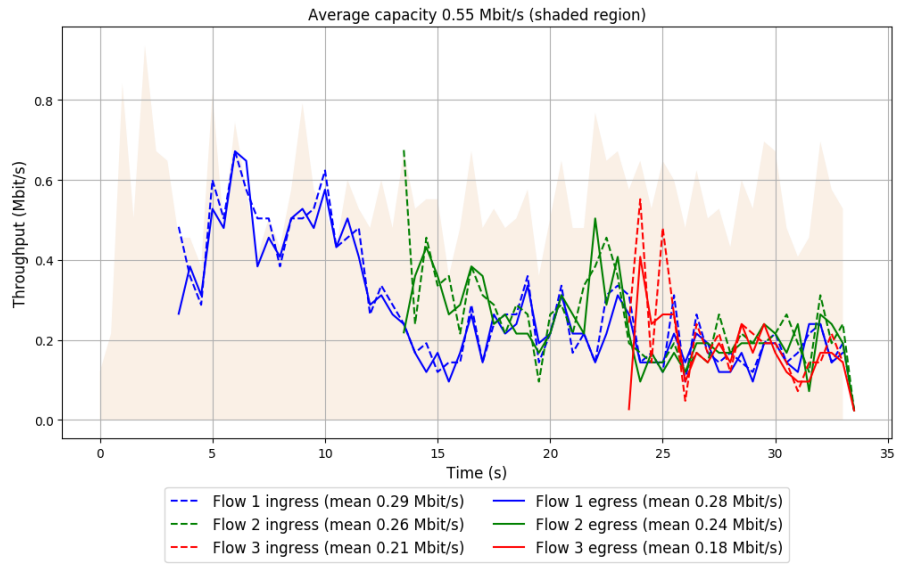
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 385.538 ms

Loss rate: 14.36%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 05:36:39

End at: 2018-02-16 05:37:09

Below is generated by plot.py at 2018-02-16 06:51:53

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (88.8% utilization)

95th percentile per-packet one-way delay: 367.582 ms

Loss rate: 9.97%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 333.726 ms

Loss rate: 6.94%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 367.582 ms

Loss rate: 9.52%

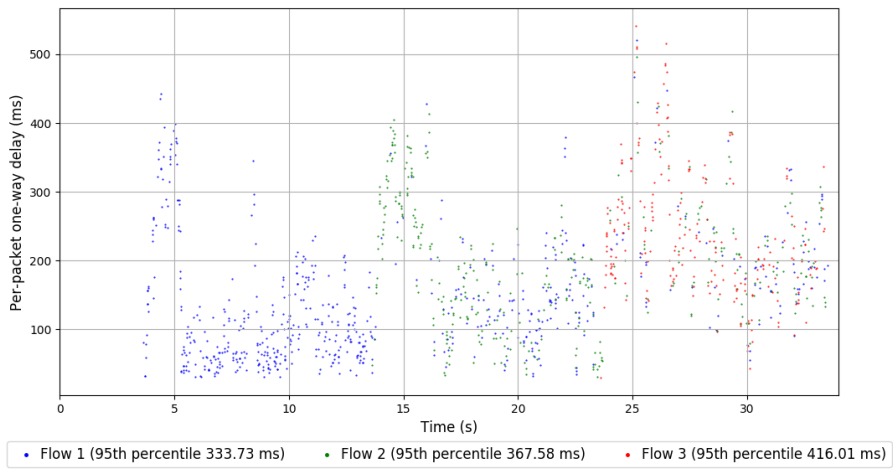
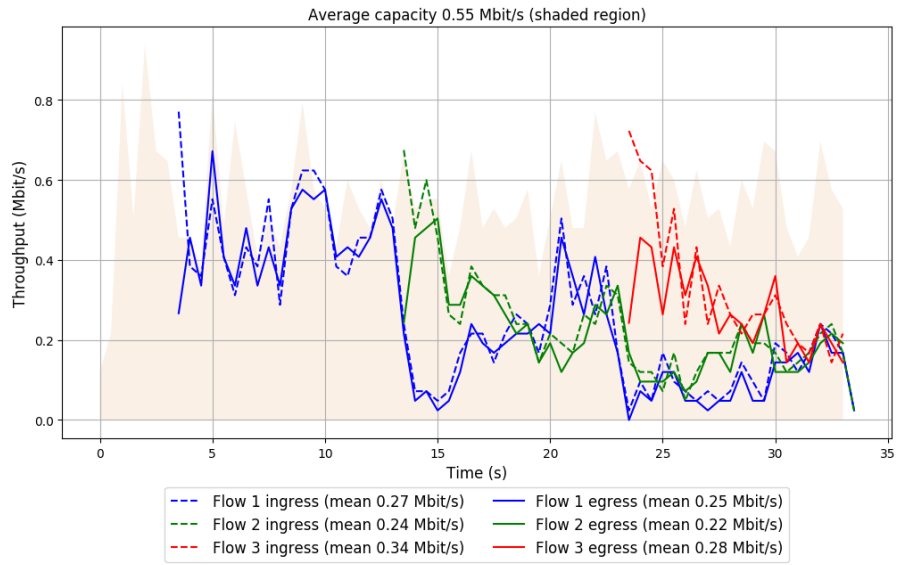
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 416.013 ms

Loss rate: 17.98%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 05:47:02

End at: 2018-02-16 05:47:32

Below is generated by plot.py at 2018-02-16 06:51:53

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.50 Mbit/s (91.0% utilization)

95th percentile per-packet one-way delay: 374.843 ms

Loss rate: 8.08%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 349.758 ms

Loss rate: 6.44%

-- Flow 2:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 395.613 ms

Loss rate: 7.86%

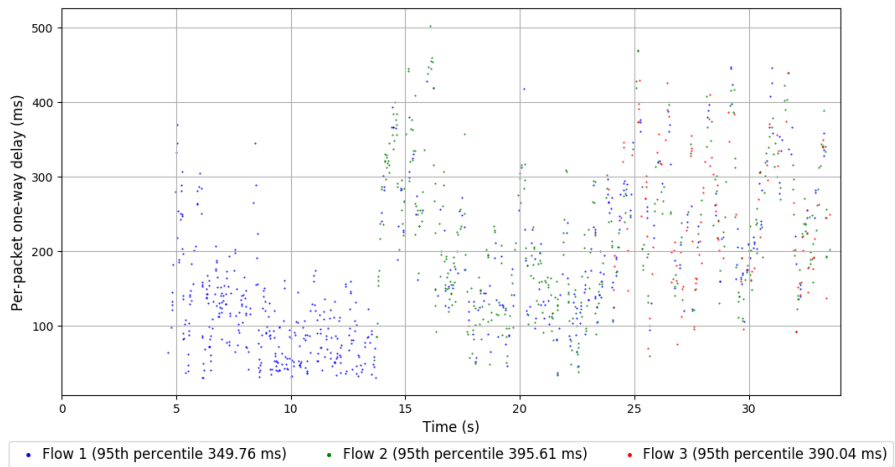
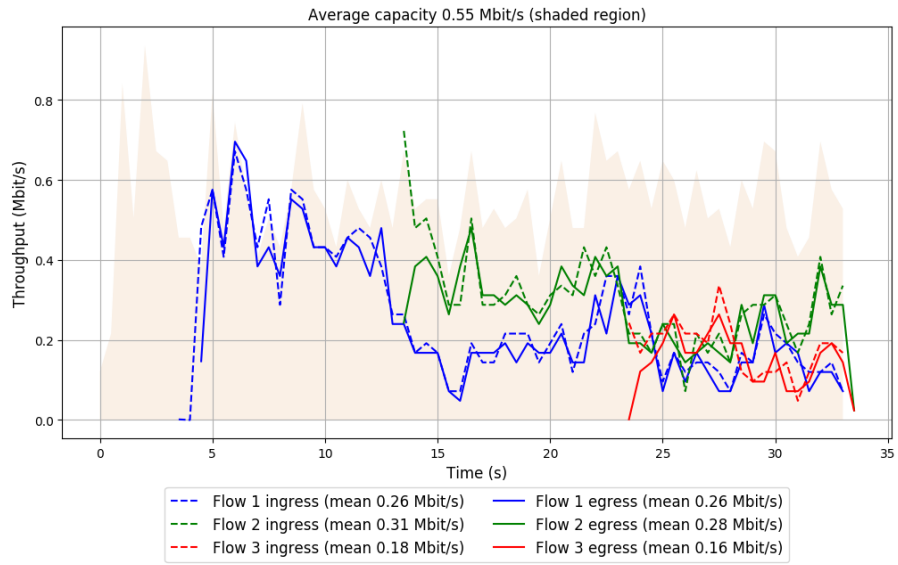
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 390.044 ms

Loss rate: 15.88%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 05:57:23

End at: 2018-02-16 05:57:53

Below is generated by plot.py at 2018-02-16 06:51:54

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.50 Mbit/s (90.7% utilization)

95th percentile per-packet one-way delay: 401.647 ms

Loss rate: 9.12%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 386.801 ms

Loss rate: 7.97%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 418.366 ms

Loss rate: 10.70%

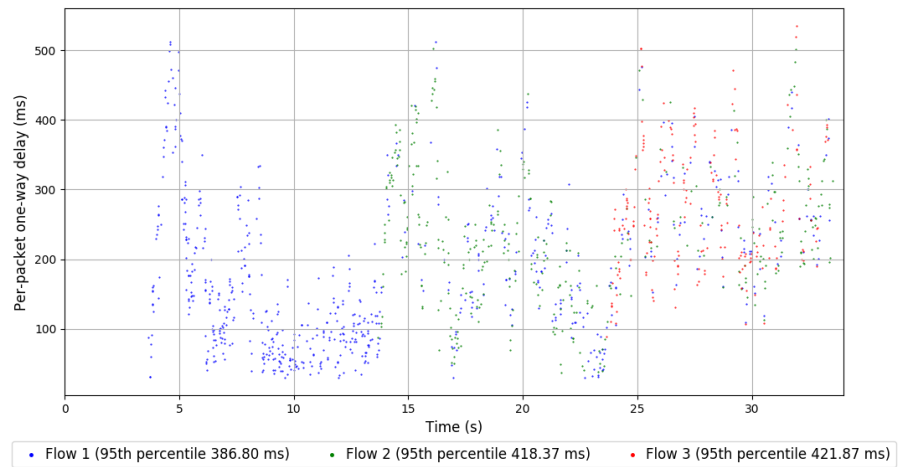
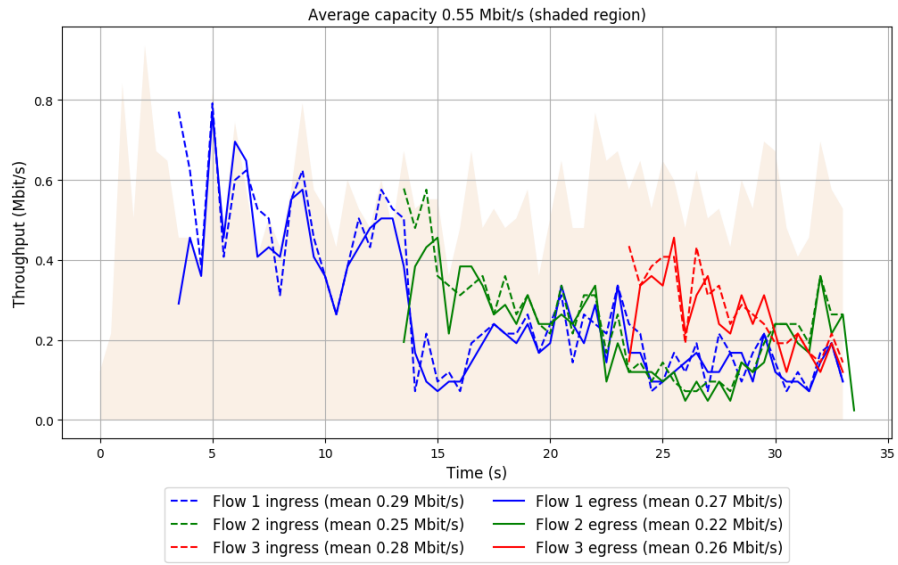
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 421.874 ms

Loss rate: 9.95%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-16 06:07:47

End at: 2018-02-16 06:08:17

Below is generated by plot.py at 2018-02-16 06:51:54

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.48 Mbit/s (86.7% utilization)

95th percentile per-packet one-way delay: 389.728 ms

Loss rate: 8.25%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 384.074 ms

Loss rate: 7.06%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 404.689 ms

Loss rate: 10.00%

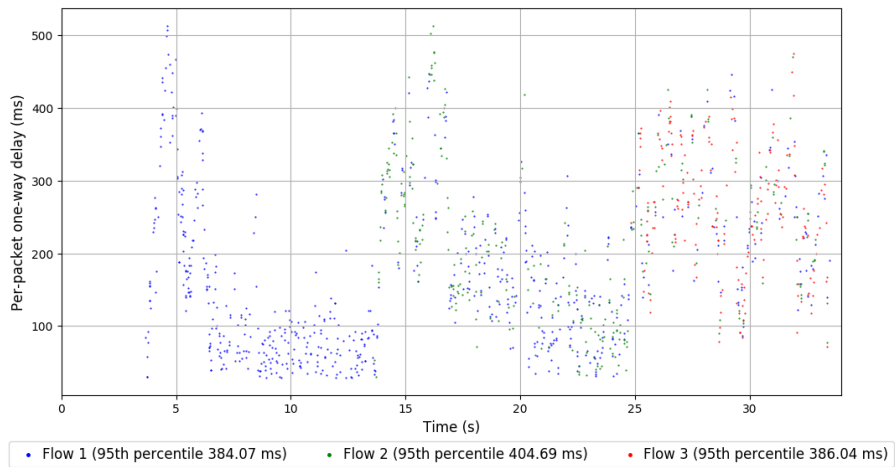
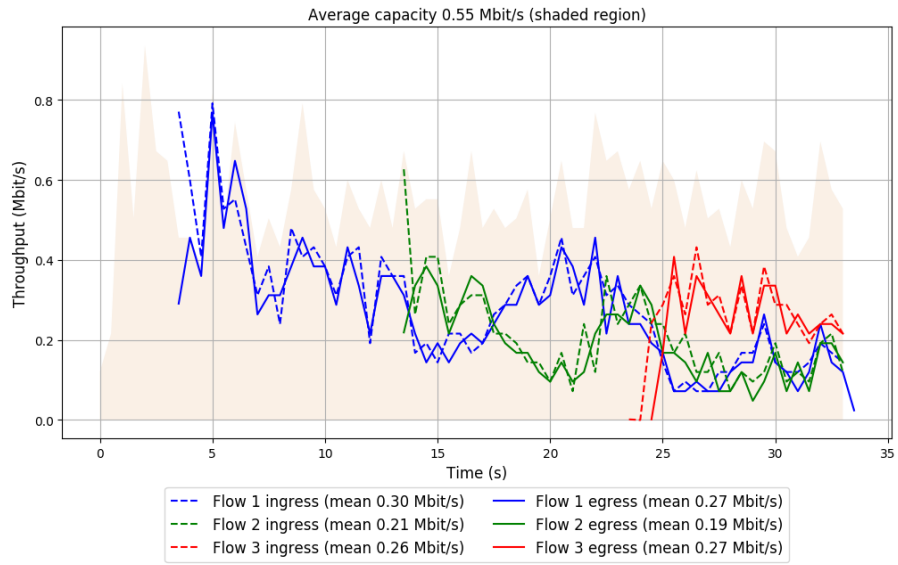
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 386.042 ms

Loss rate: 9.50%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-16 06:18:08

End at: 2018-02-16 06:18:38

Below is generated by plot.py at 2018-02-16 06:51:59

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (92.0% utilization)

95th percentile per-packet one-way delay: 385.722 ms

Loss rate: 7.88%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 387.444 ms

Loss rate: 6.15%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 383.457 ms

Loss rate: 8.50%

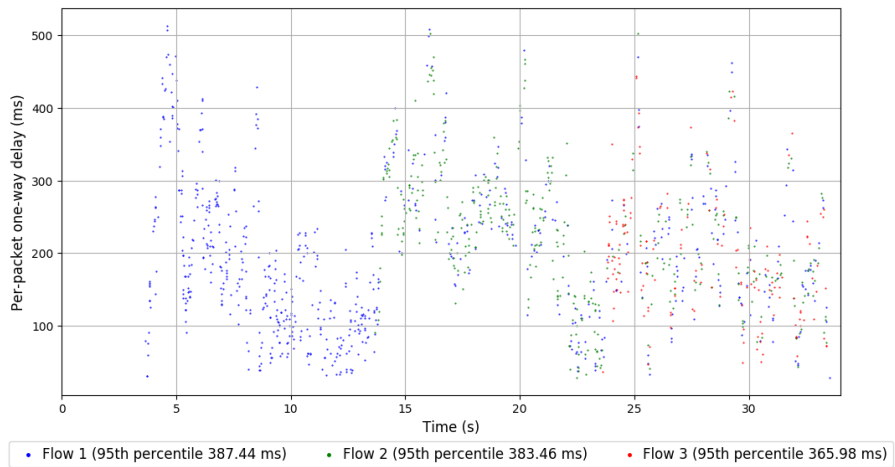
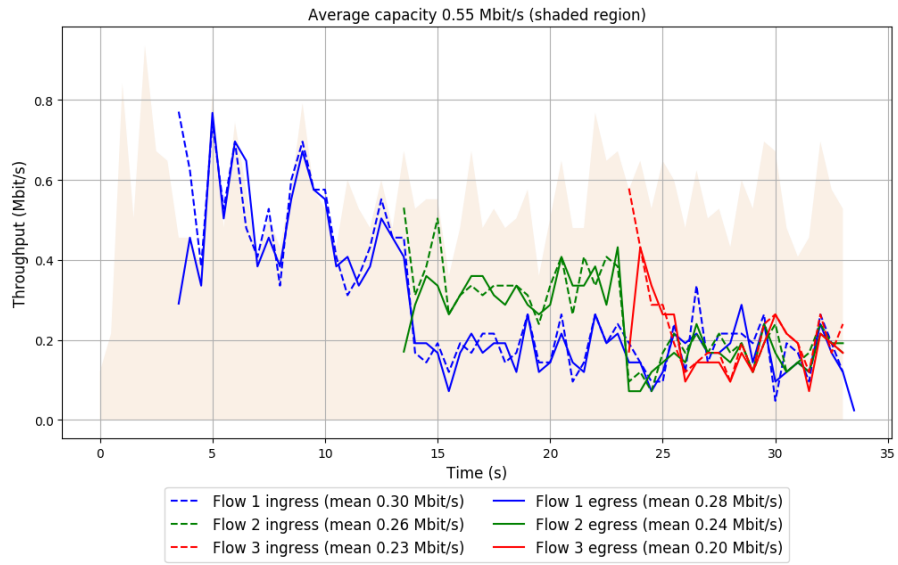
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 365.979 ms

Loss rate: 13.36%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 06:28:33

End at: 2018-02-16 06:29:03

Below is generated by plot.py at 2018-02-16 06:52:00

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.48 Mbit/s (86.9% utilization)

95th percentile per-packet one-way delay: 360.924 ms

Loss rate: 7.46%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 349.493 ms

Loss rate: 6.96%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 356.657 ms

Loss rate: 6.97%

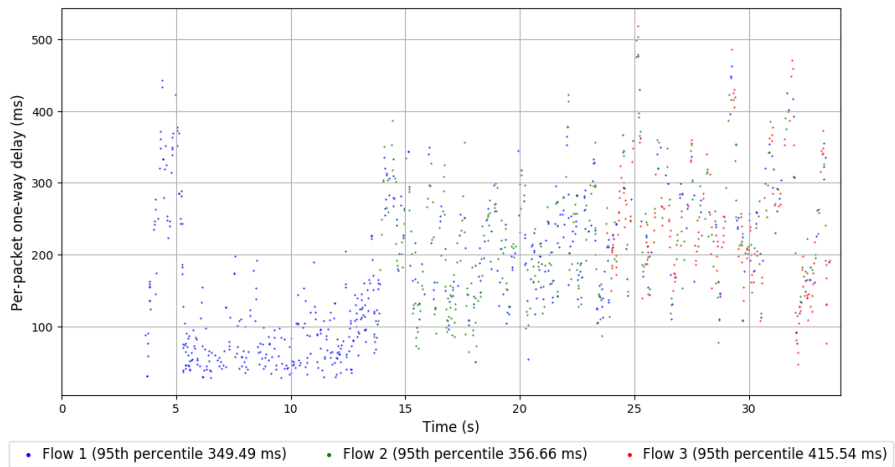
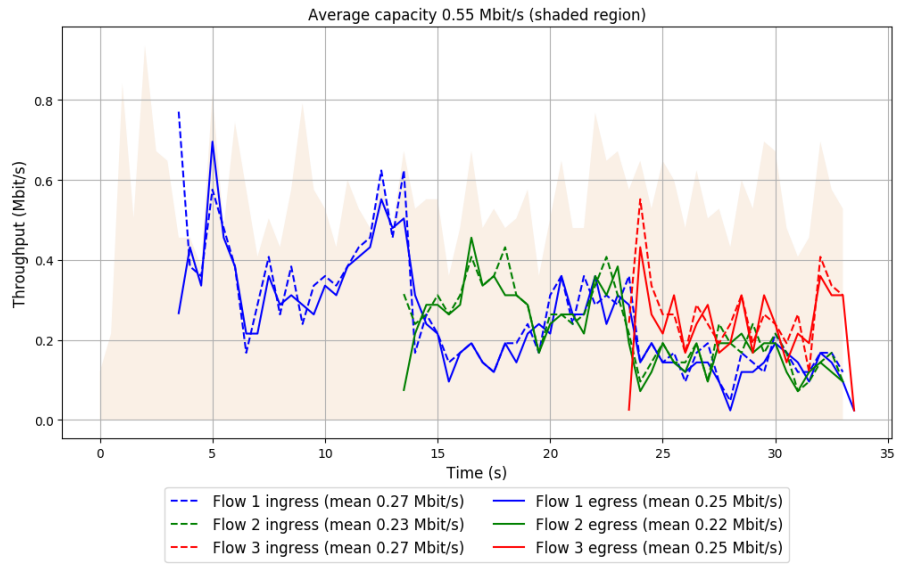
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 415.542 ms

Loss rate: 9.76%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 06:38:57

End at: 2018-02-16 06:39:27

Below is generated by plot.py at 2018-02-16 06:52:00

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.47 Mbit/s (85.6% utilization)

95th percentile per-packet one-way delay: 372.016 ms

Loss rate: 8.28%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 370.823 ms

Loss rate: 7.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 379.388 ms

Loss rate: 10.04%

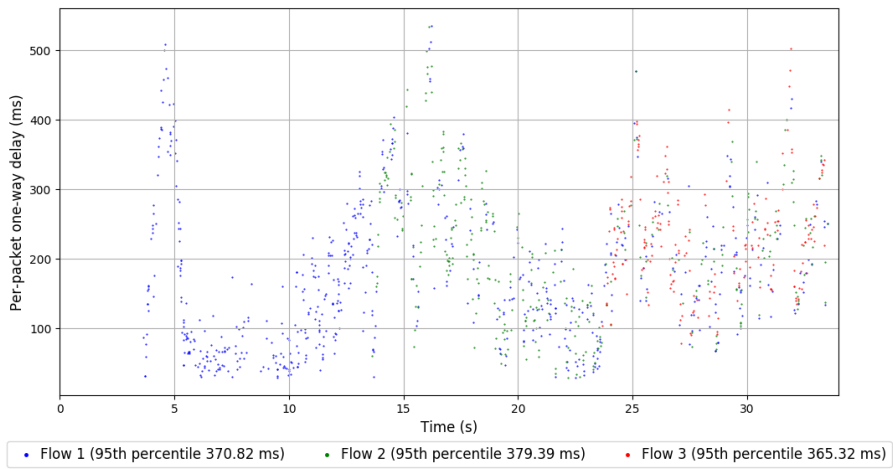
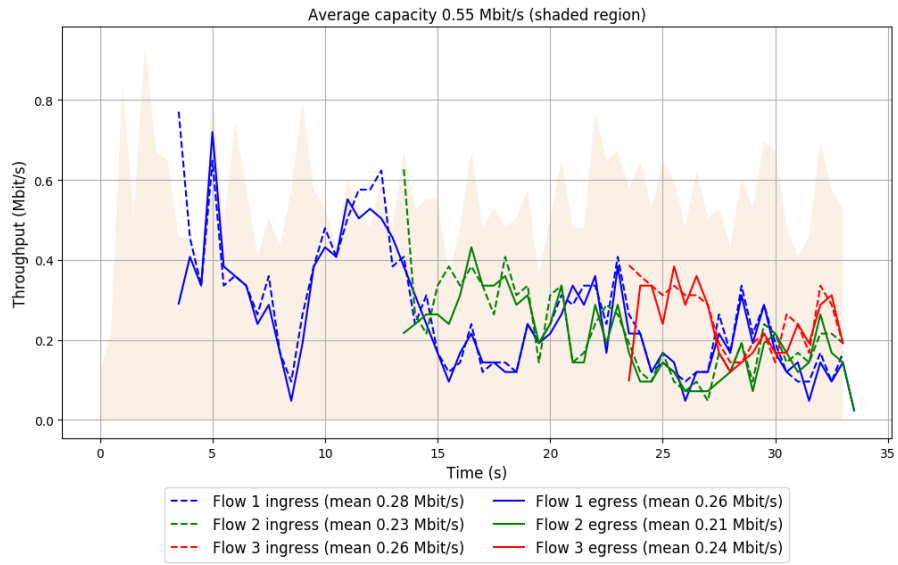
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 365.324 ms

Loss rate: 8.83%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 06:49:17

End at: 2018-02-16 06:49:47

Below is generated by plot.py at 2018-02-16 06:52:01

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (89.2% utilization)

95th percentile per-packet one-way delay: 379.677 ms

Loss rate: 8.93%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 369.334 ms

Loss rate: 6.51%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 370.861 ms

Loss rate: 9.04%

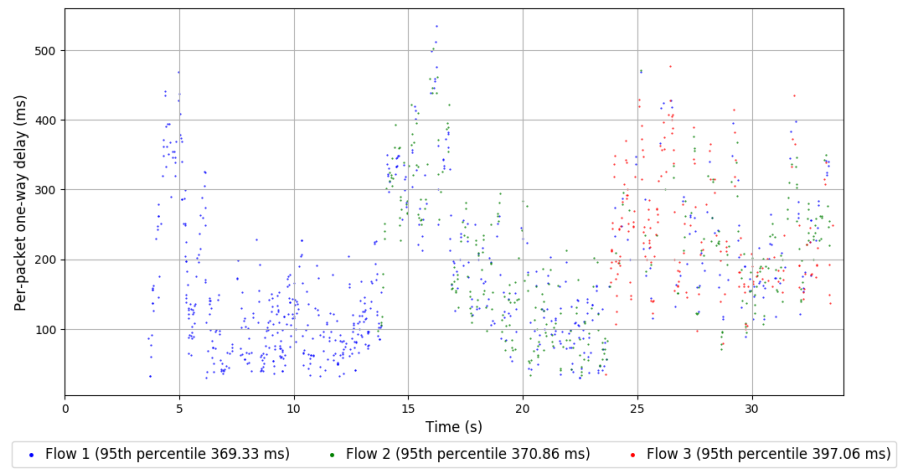
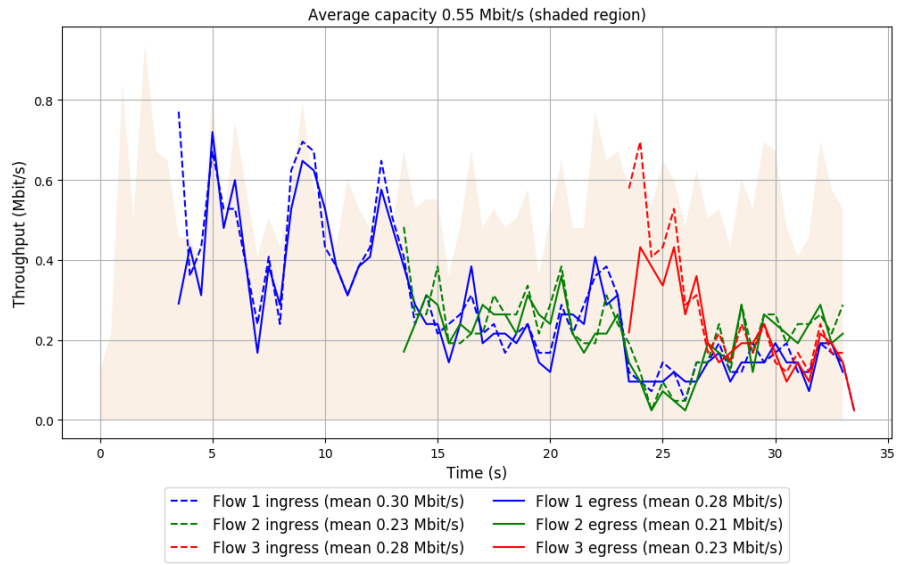
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 397.059 ms

Loss rate: 16.44%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-02-16 05:11:54

End at: 2018-02-16 05:12:24

Below is generated by plot.py at 2018-02-16 06:52:01

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (83.6% utilization)

95th percentile per-packet one-way delay: 259.180 ms

Loss rate: 5.93%

-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 246.572 ms

Loss rate: 4.61%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 275.071 ms

Loss rate: 6.42%

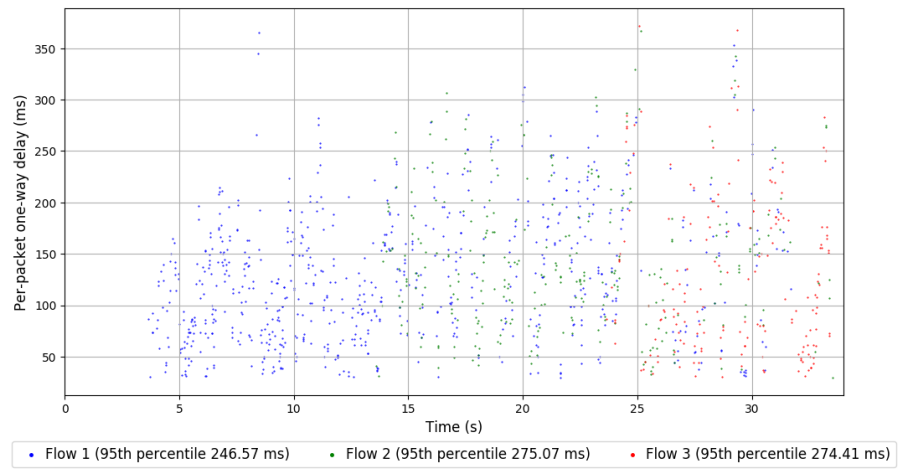
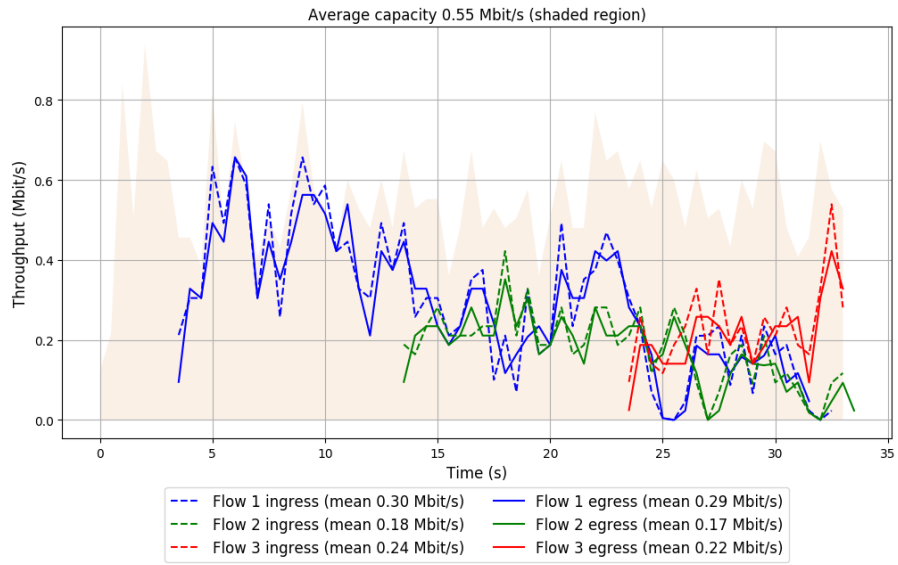
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 274.410 ms

Loss rate: 10.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-16 05:22:15

End at: 2018-02-16 05:22:45

Below is generated by plot.py at 2018-02-16 06:52:01

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.47 Mbit/s (84.8% utilization)

95th percentile per-packet one-way delay: 279.025 ms

Loss rate: 4.57%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 247.285 ms

Loss rate: 4.54%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 296.037 ms

Loss rate: 4.70%

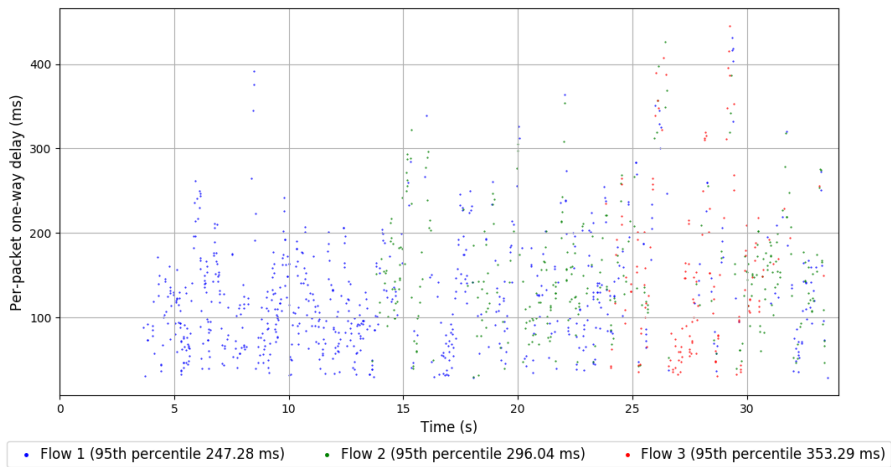
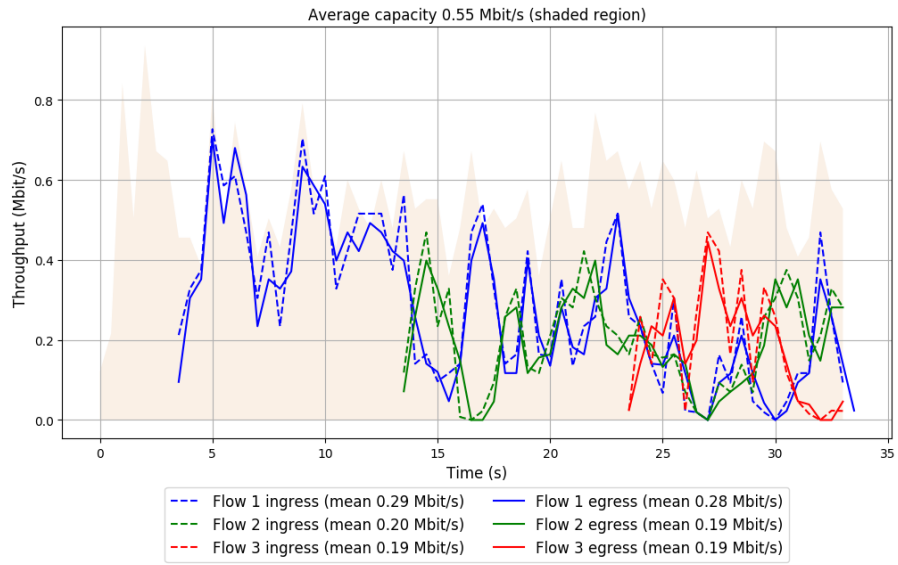
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 353.288 ms

Loss rate: 4.42%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-16 05:32:37

End at: 2018-02-16 05:33:07

Below is generated by plot.py at 2018-02-16 06:52:02

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.44 Mbit/s (79.2% utilization)

95th percentile per-packet one-way delay: 257.116 ms

Loss rate: 6.89%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 225.286 ms

Loss rate: 5.79%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 253.988 ms

Loss rate: 10.78%

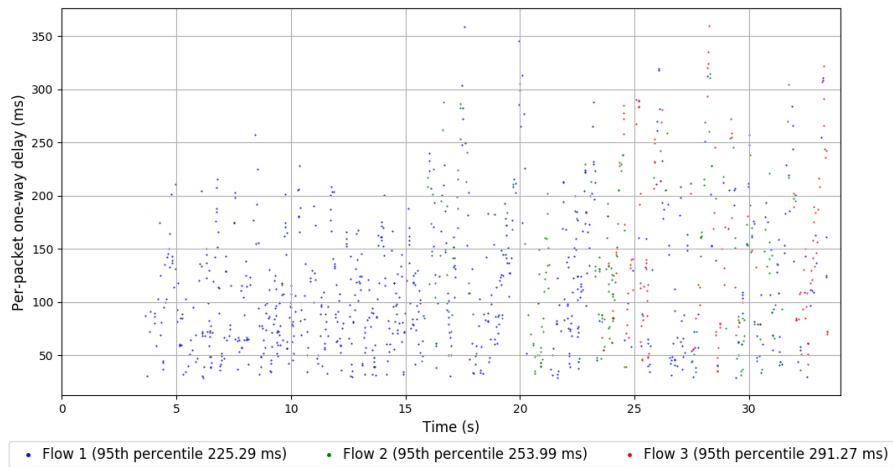
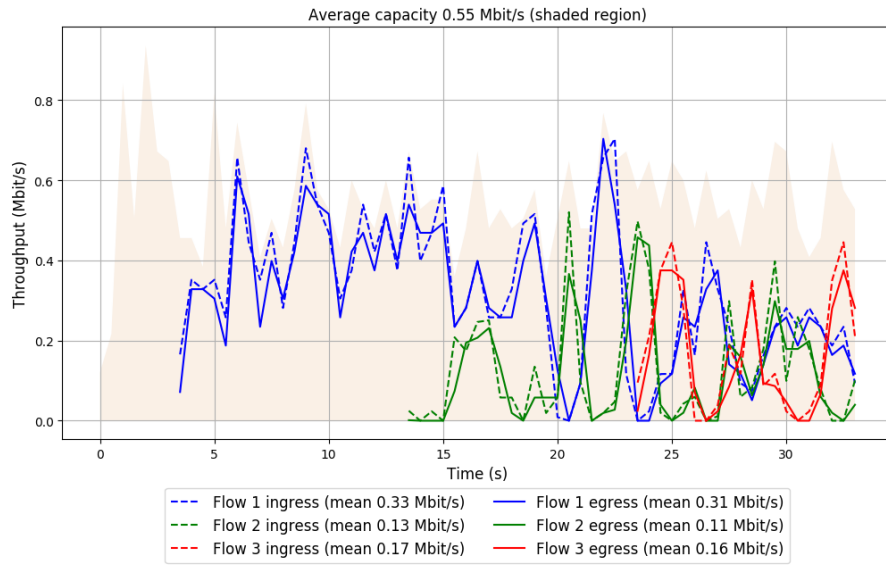
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 291.271 ms

Loss rate: 7.47%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-16 05:42:59

End at: 2018-02-16 05:43:29

Below is generated by plot.py at 2018-02-16 06:52:02

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.40 Mbit/s (72.9% utilization)

95th percentile per-packet one-way delay: 311.728 ms

Loss rate: 6.74%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 270.581 ms

Loss rate: 5.32%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 343.766 ms

Loss rate: 7.70%

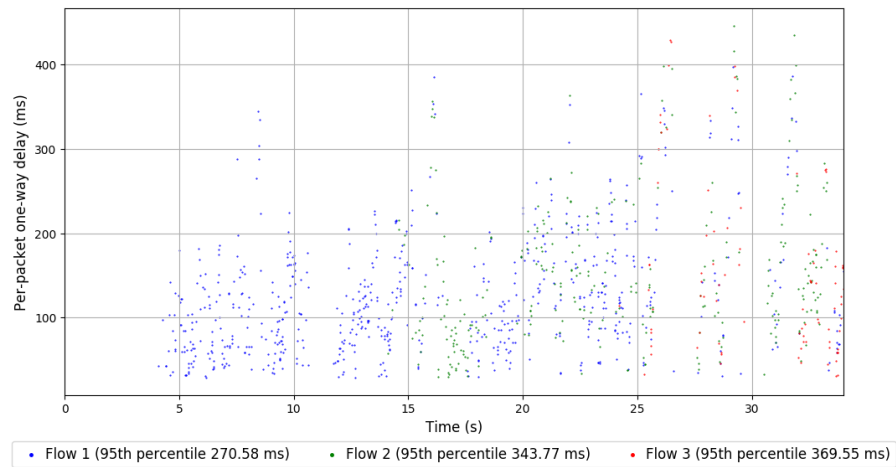
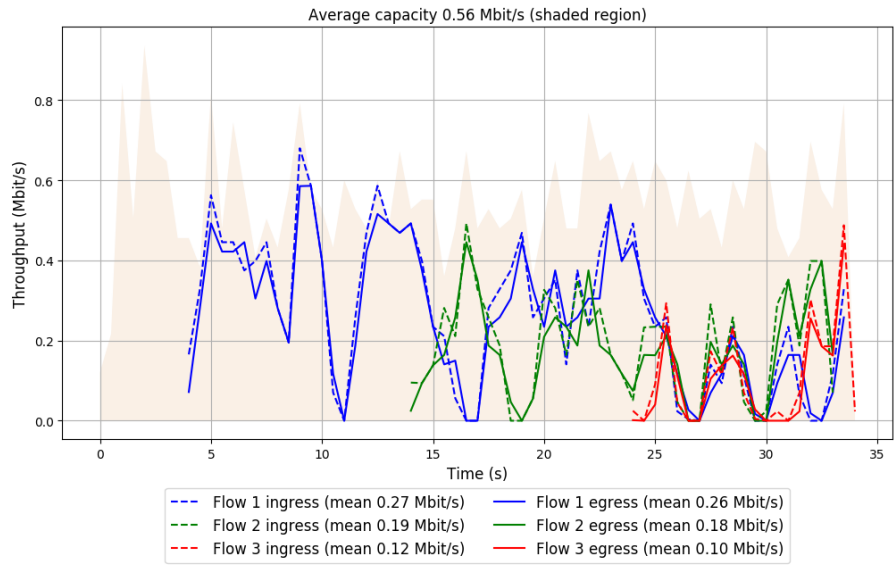
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 369.554 ms

Loss rate: 13.68%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-16 05:53:21

End at: 2018-02-16 05:53:51

Below is generated by plot.py at 2018-02-16 06:52:06

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (78.1% utilization)

95th percentile per-packet one-way delay: 272.067 ms

Loss rate: 5.56%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 254.269 ms

Loss rate: 5.55%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 283.021 ms

Loss rate: 5.18%

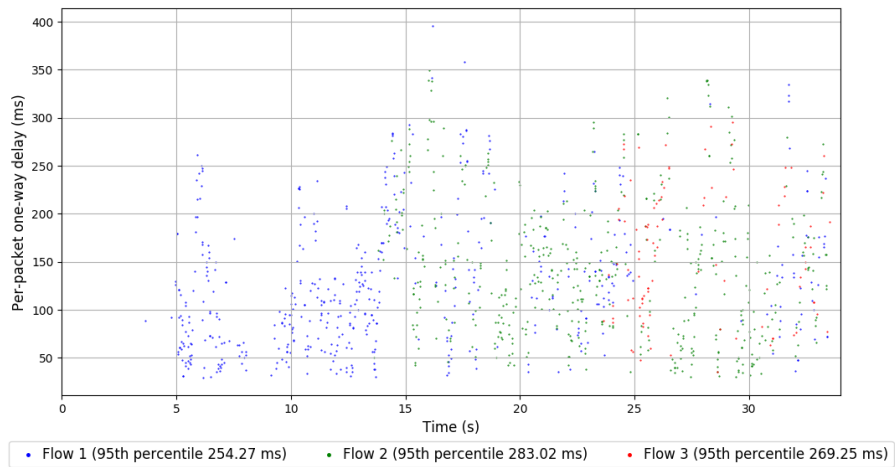
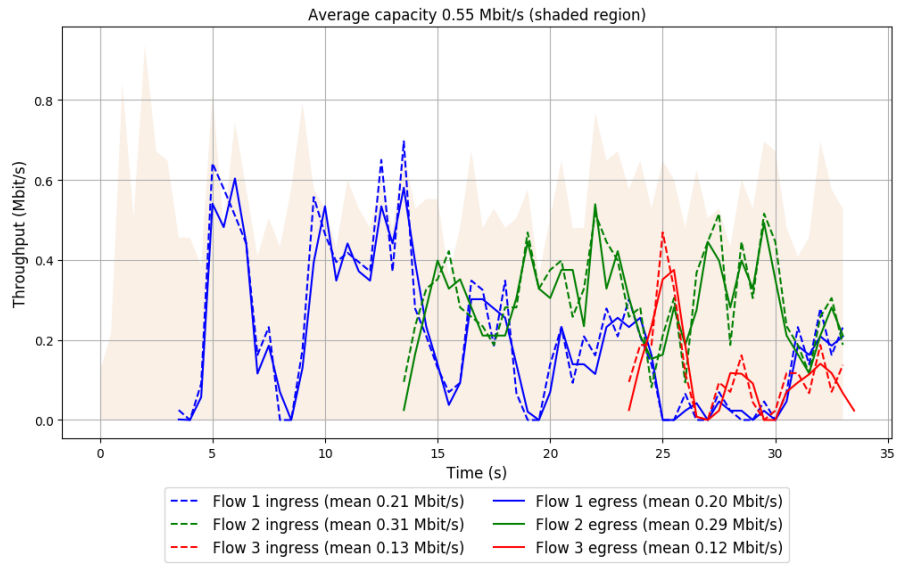
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 269.249 ms

Loss rate: 7.52%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-16 06:03:44

End at: 2018-02-16 06:04:14

Below is generated by plot.py at 2018-02-16 06:52:07

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.44 Mbit/s (79.8% utilization)

95th percentile per-packet one-way delay: 264.429 ms

Loss rate: 5.93%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 243.426 ms

Loss rate: 5.60%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 265.339 ms

Loss rate: 6.52%

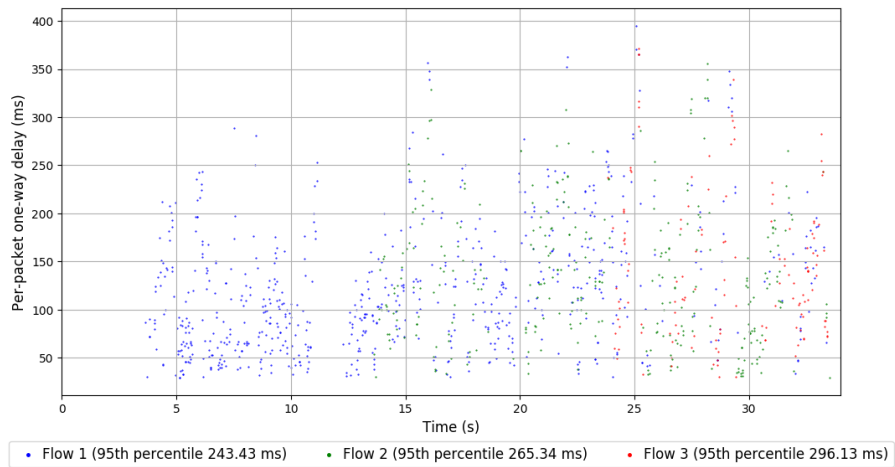
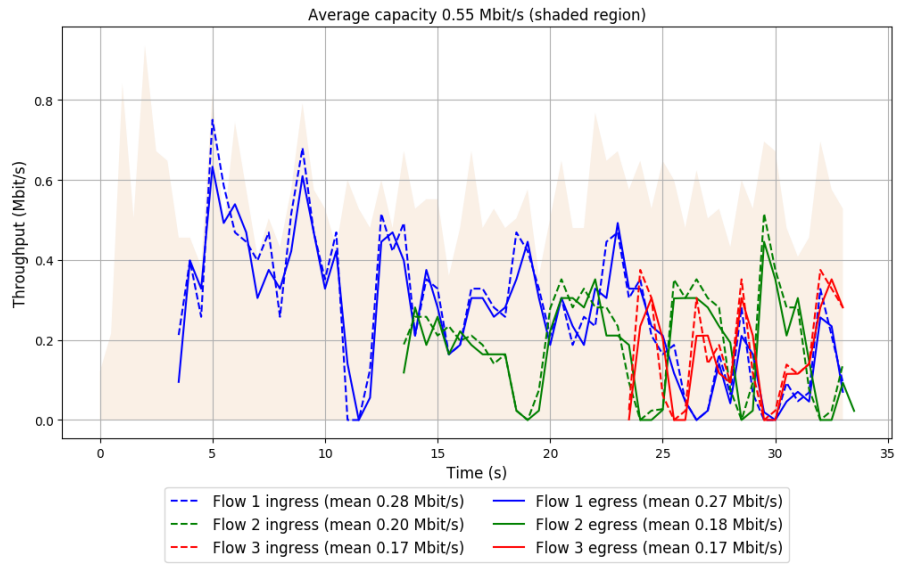
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 296.130 ms

Loss rate: 6.23%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-16 06:14:06

End at: 2018-02-16 06:14:36

Below is generated by plot.py at 2018-02-16 06:52:07

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (78.0% utilization)

95th percentile per-packet one-way delay: 264.920 ms

Loss rate: 5.04%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 250.564 ms

Loss rate: 5.36%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 265.250 ms

Loss rate: 4.06%

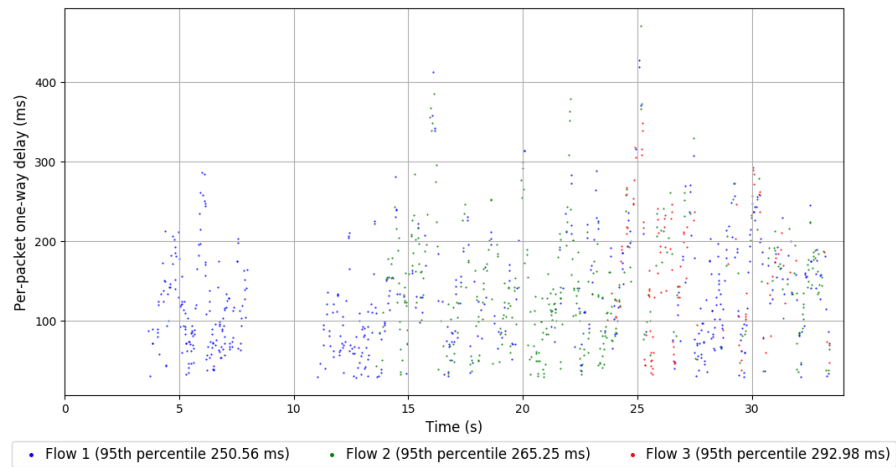
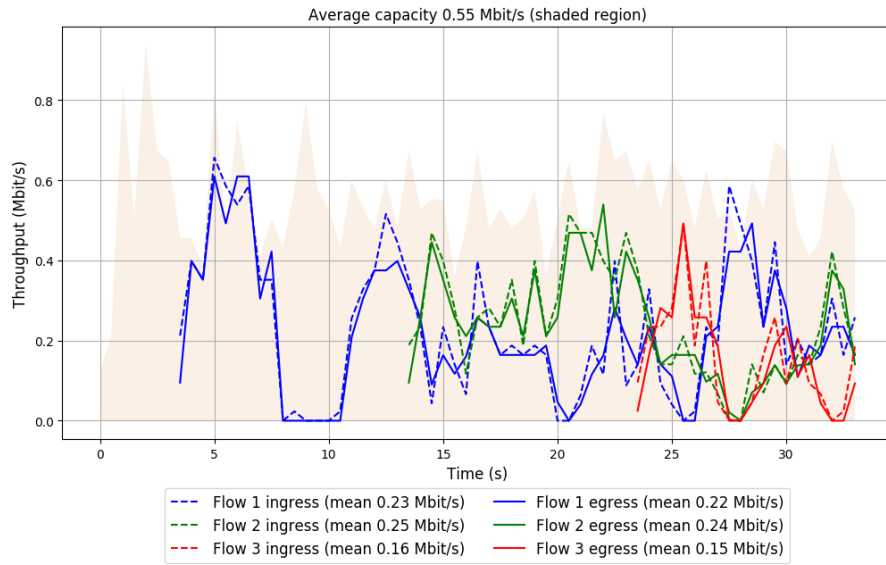
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 292.980 ms

Loss rate: 6.74%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-16 06:24:30

End at: 2018-02-16 06:25:00

Below is generated by plot.py at 2018-02-16 06:52:08

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.44 Mbit/s (79.9% utilization)

95th percentile per-packet one-way delay: 275.203 ms

Loss rate: 5.63%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 257.721 ms

Loss rate: 5.62%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 279.074 ms

Loss rate: 4.14%

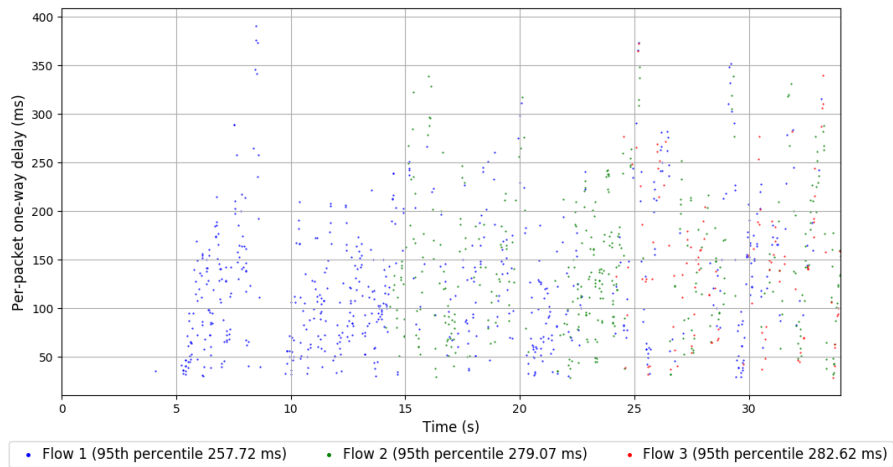
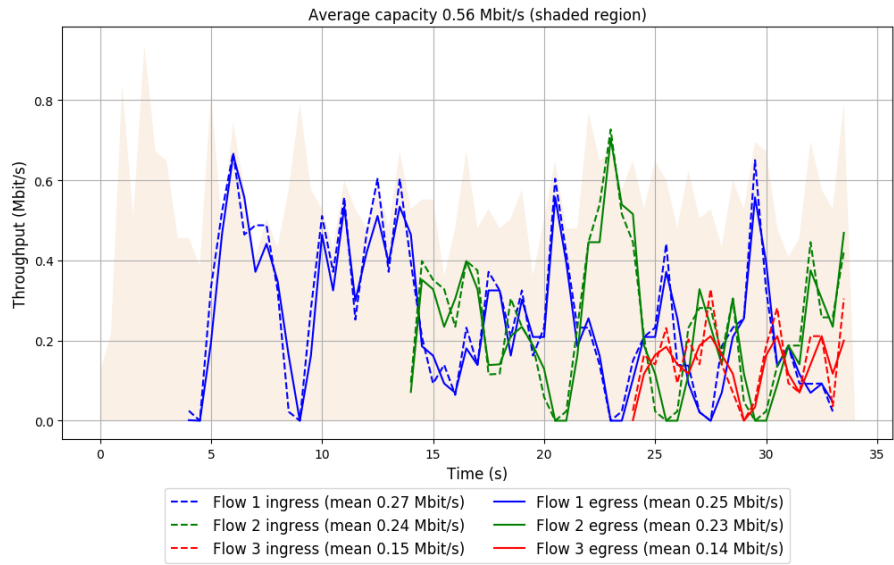
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 282.625 ms

Loss rate: 10.45%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 06:34:53

End at: 2018-02-16 06:35:23

Below is generated by plot.py at 2018-02-16 06:52:08

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.45 Mbit/s (80.9% utilization)

95th percentile per-packet one-way delay: 285.071 ms

Loss rate: 4.54%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 250.127 ms

Loss rate: 4.56%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 308.806 ms

Loss rate: 4.47%

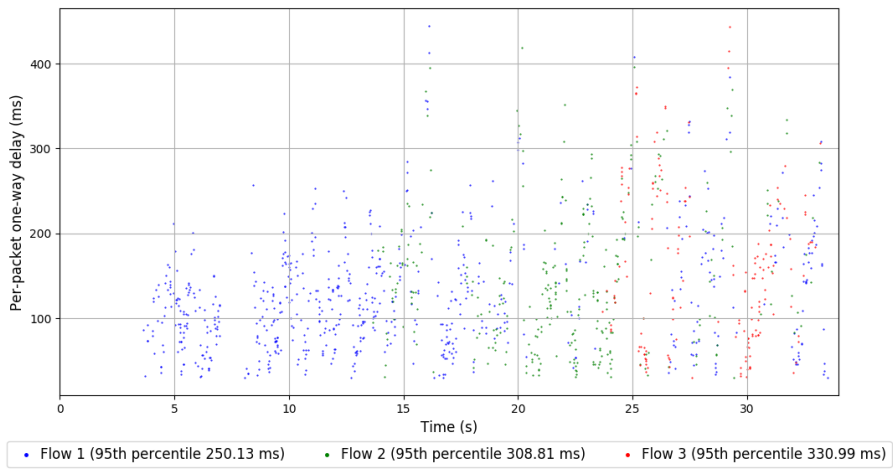
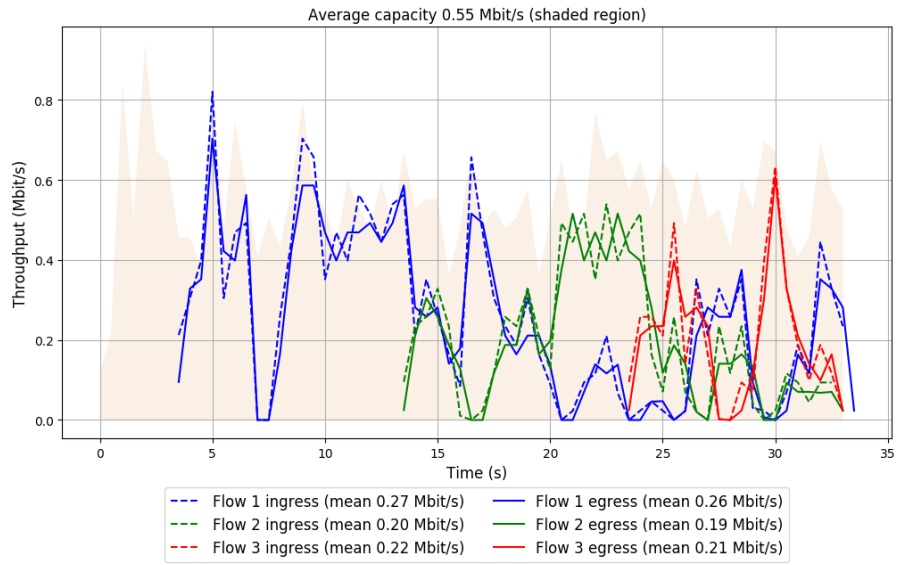
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 330.994 ms

Loss rate: 4.59%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 06:45:16

End at: 2018-02-16 06:45:46

Below is generated by plot.py at 2018-02-16 06:52:08

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (82.9% utilization)

95th percentile per-packet one-way delay: 272.751 ms

Loss rate: 5.11%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 257.264 ms

Loss rate: 4.60%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 272.020 ms

Loss rate: 5.62%

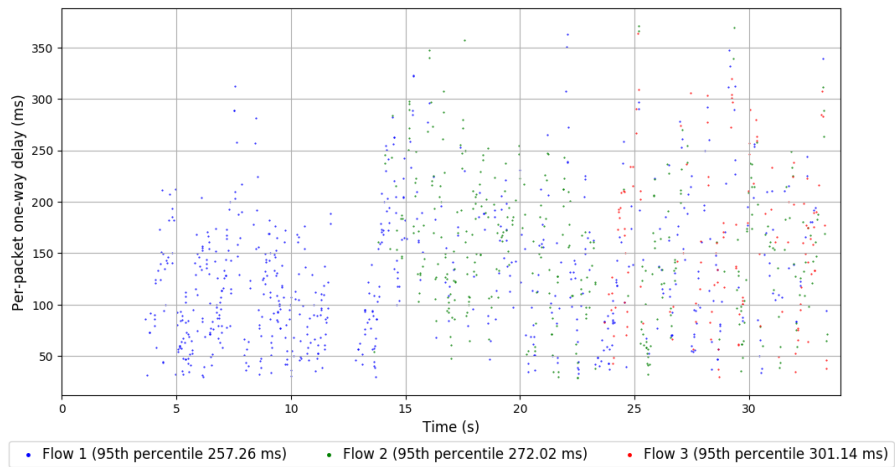
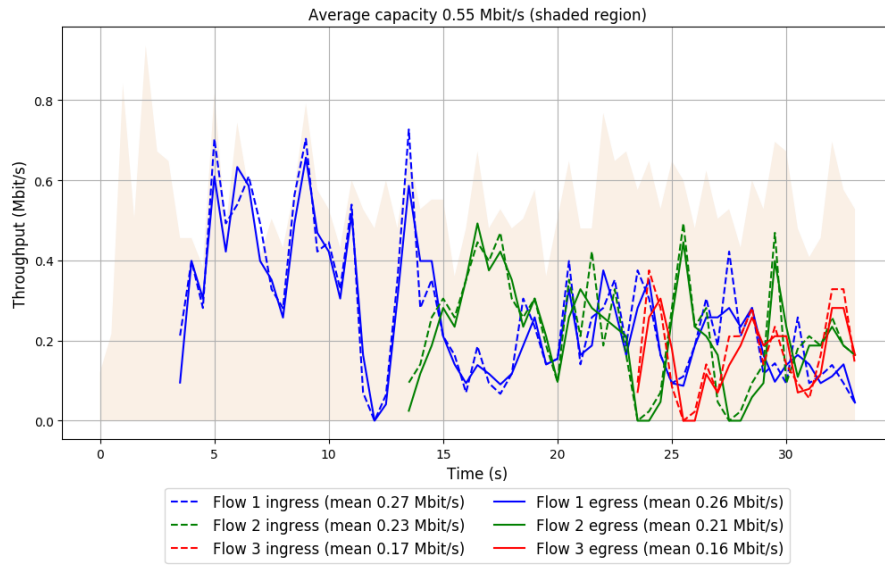
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 301.143 ms

Loss rate: 6.21%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-16 05:11:20

End at: 2018-02-16 05:11:50

Below is generated by plot.py at 2018-02-16 06:52:14

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.3% utilization)

95th percentile per-packet one-way delay: 475.761 ms

Loss rate: 94.31%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 473.140 ms

Loss rate: 91.77%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 497.578 ms

Loss rate: 93.66%

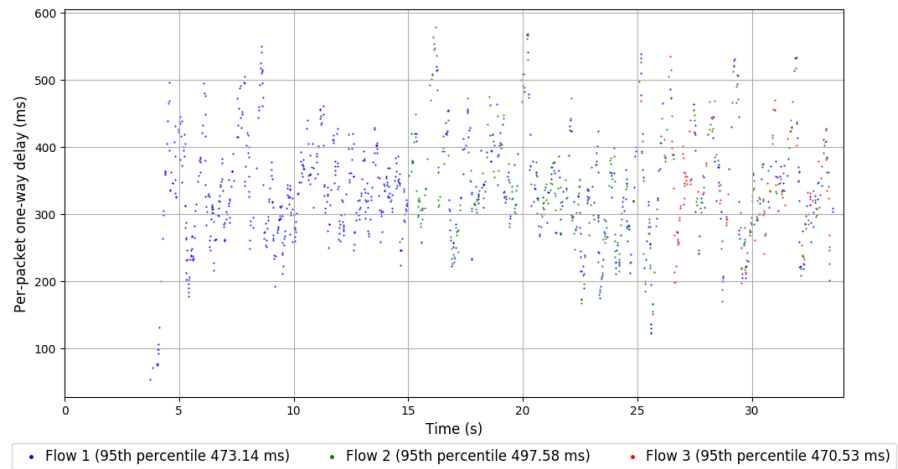
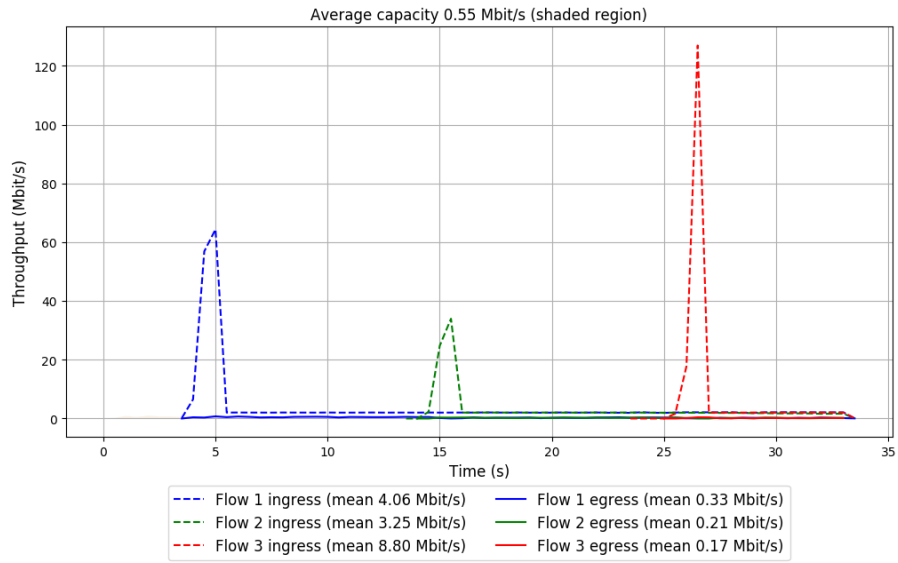
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 470.532 ms

Loss rate: 98.34%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-16 05:21:41

End at: 2018-02-16 05:22:11

Below is generated by plot.py at 2018-02-16 06:52:14

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.53 Mbit/s (95.5% utilization)

95th percentile per-packet one-way delay: 471.588 ms

Loss rate: 87.95%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 470.952 ms

Loss rate: 83.47%

-- Flow 2:

Average throughput: 0.26 Mbit/s

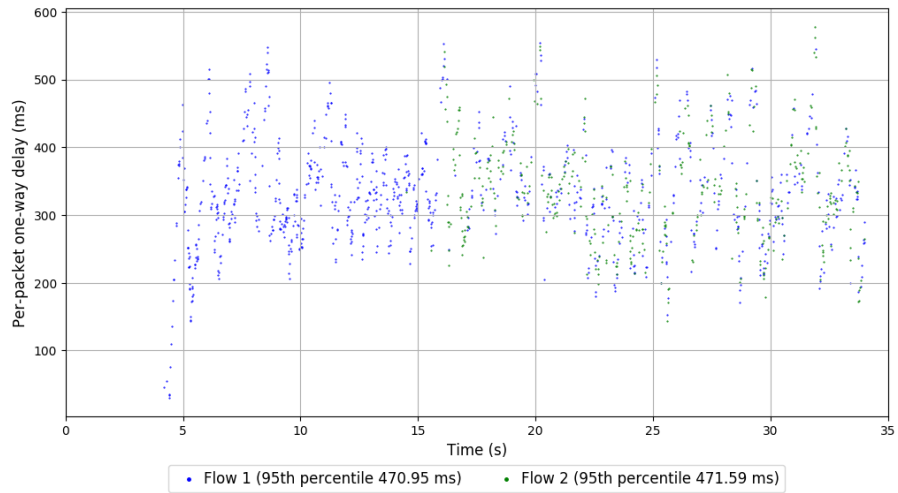
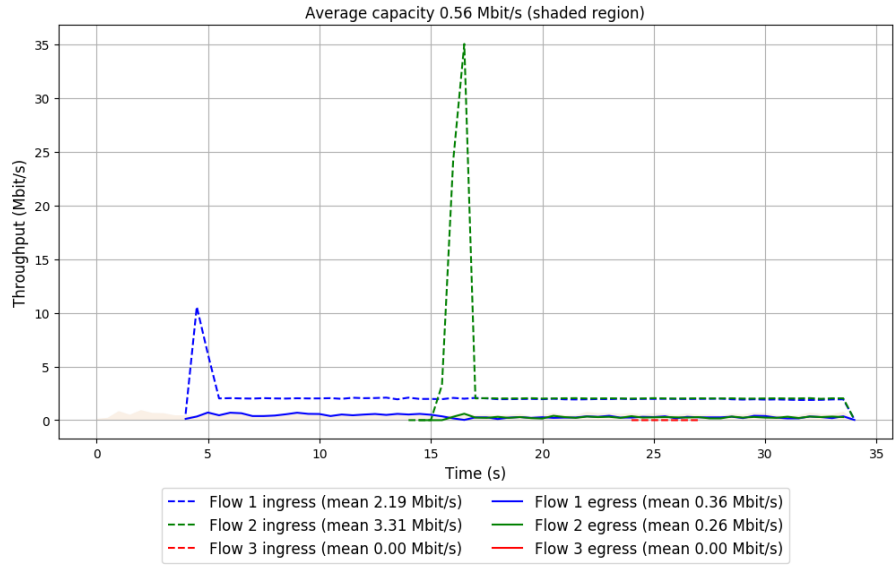
95th percentile per-packet one-way delay: 471.588 ms

Loss rate: 92.38%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-16 05:32:02

End at: 2018-02-16 05:32:32

Below is generated by plot.py at 2018-02-16 06:52:16

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 477.297 ms

Loss rate: 93.00%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 469.557 ms

Loss rate: 92.32%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 502.308 ms

Loss rate: 93.34%

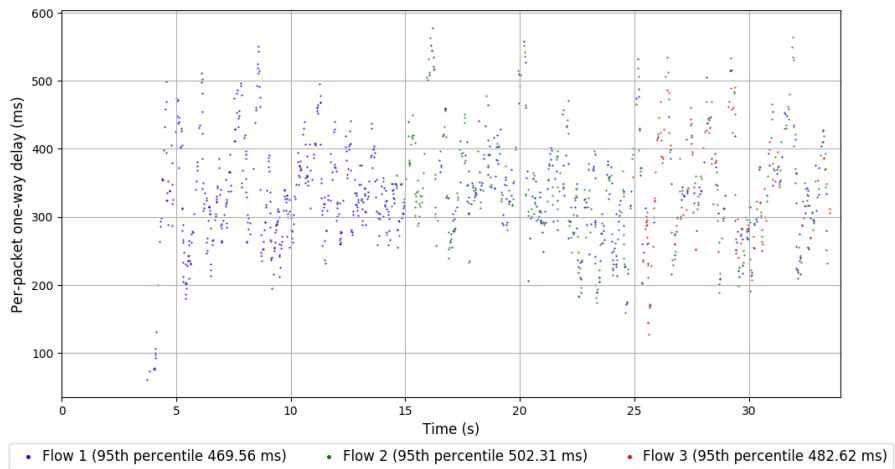
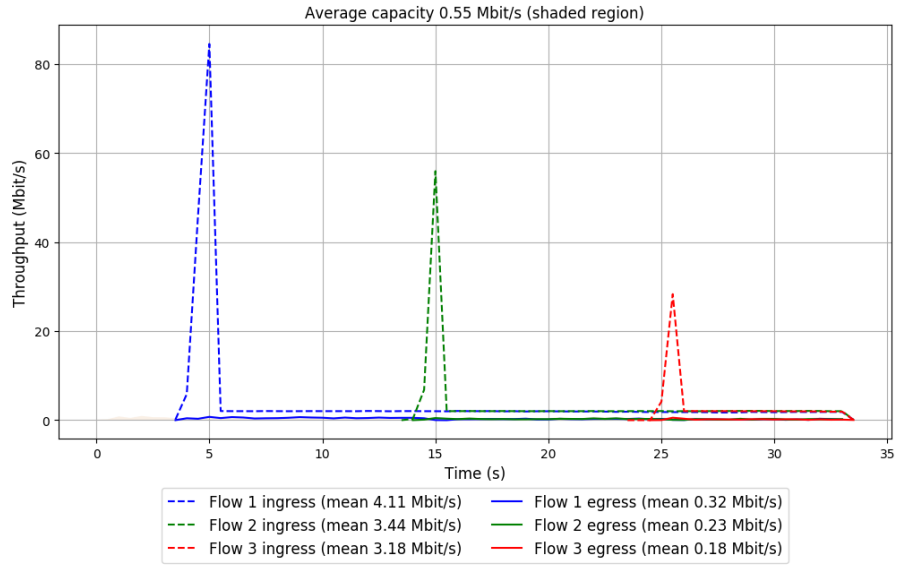
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 482.625 ms

Loss rate: 94.90%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-16 05:42:24

End at: 2018-02-16 05:42:54

Below is generated by plot.py at 2018-02-16 06:52:16

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.53 Mbit/s (95.4% utilization)

95th percentile per-packet one-way delay: 468.250 ms

Loss rate: 84.77%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 469.905 ms

Loss rate: 82.47%

-- Flow 2:

Average throughput: 0.00 Mbit/s

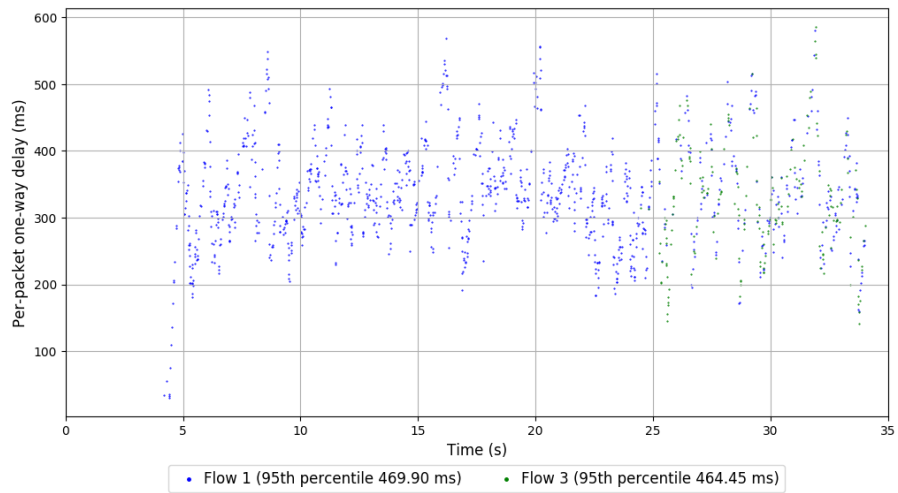
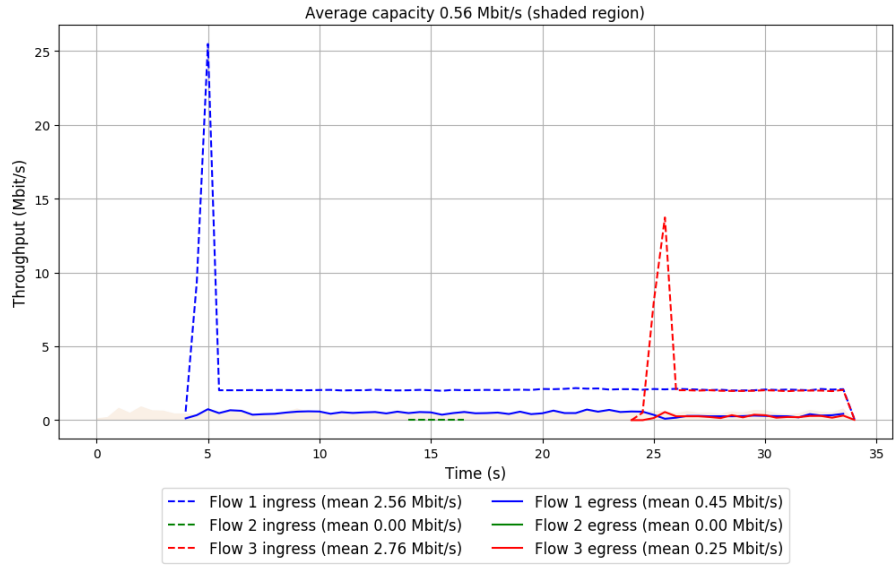
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 464.450 ms

Loss rate: 91.24%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-16 05:52:47

End at: 2018-02-16 05:53:17

Below is generated by plot.py at 2018-02-16 06:52:19

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (95.0% utilization)

95th percentile per-packet one-way delay: 474.299 ms

Loss rate: 93.00%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 480.395 ms

Loss rate: 92.17%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 459.867 ms

Loss rate: 92.11%

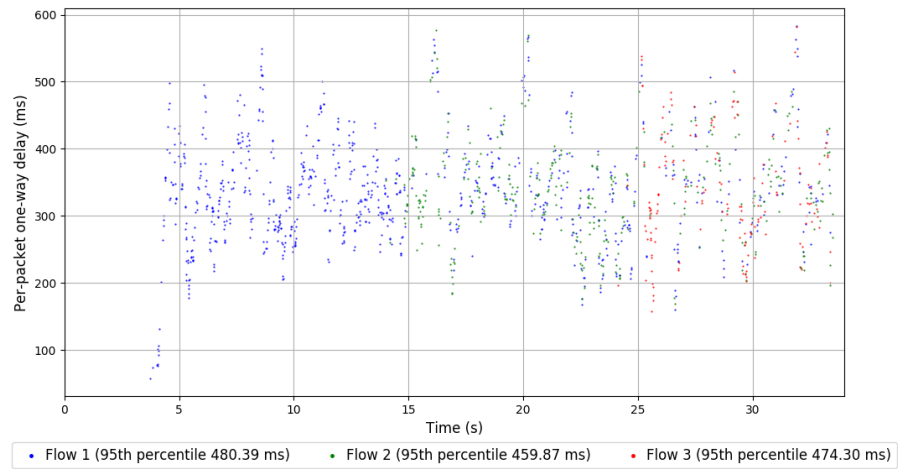
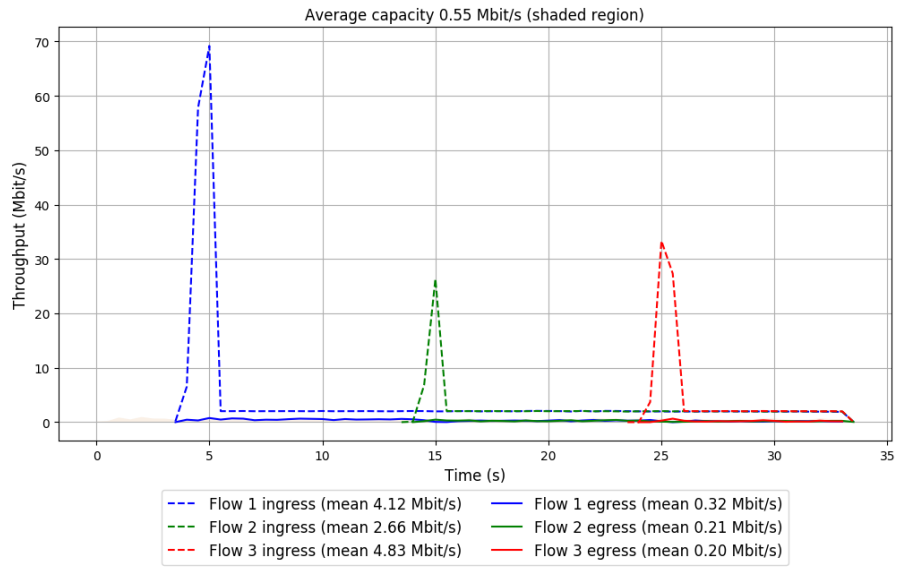
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 474.299 ms

Loss rate: 96.15%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-16 06:03:10

End at: 2018-02-16 06:03:40

Below is generated by plot.py at 2018-02-16 06:52:19

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.53 Mbit/s (95.0% utilization)

95th percentile per-packet one-way delay: 478.604 ms

Loss rate: 86.75%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 473.586 ms

Loss rate: 79.75%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 244.720 ms

Loss rate: 92.31%

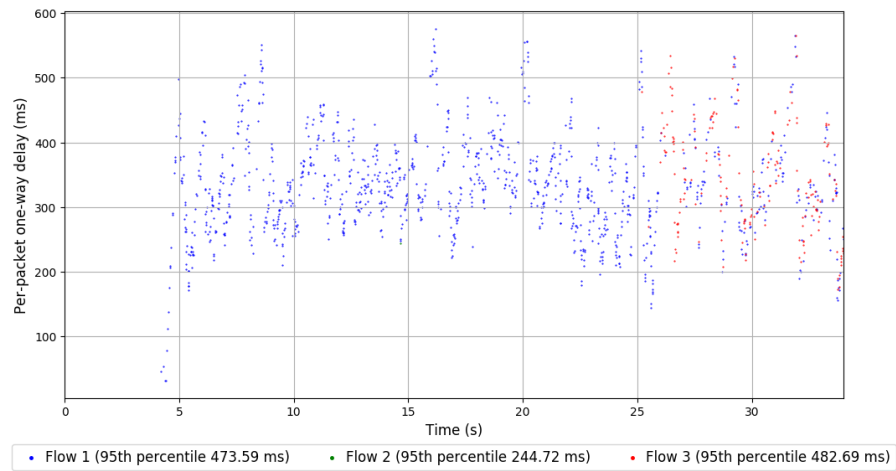
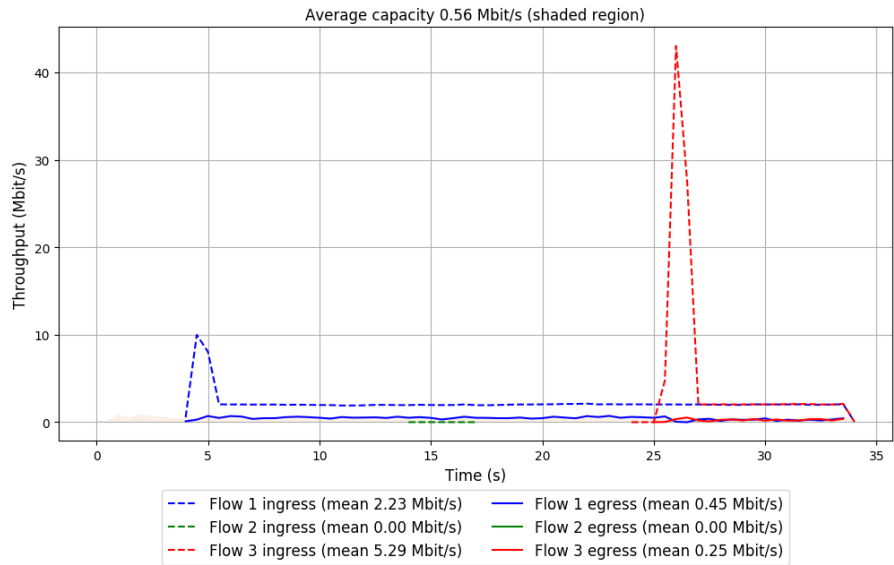
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 482.692 ms

Loss rate: 95.72%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-16 06:13:32

End at: 2018-02-16 06:14:02

Below is generated by plot.py at 2018-02-16 06:52:22

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.7% utilization)

95th percentile per-packet one-way delay: 477.899 ms

Loss rate: 94.23%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 474.599 ms

Loss rate: 91.15%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 507.389 ms

Loss rate: 95.13%

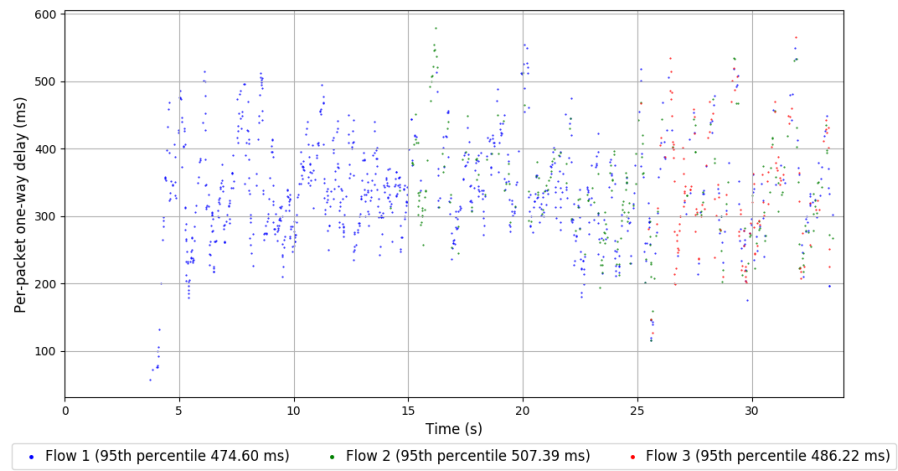
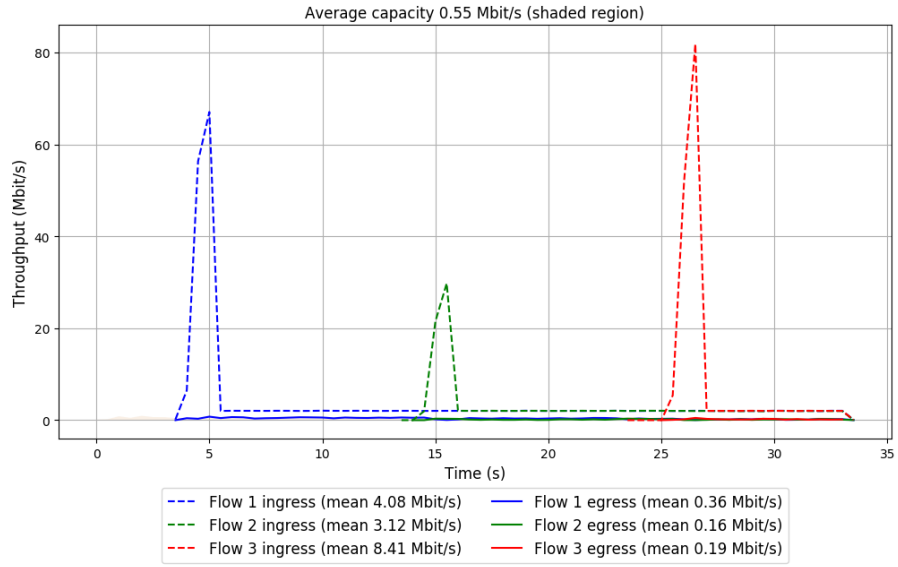
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 486.222 ms

Loss rate: 98.08%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-16 06:23:55

End at: 2018-02-16 06:24:25

Below is generated by plot.py at 2018-02-16 06:52:23

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.0% utilization)

95th percentile per-packet one-way delay: 470.002 ms

Loss rate: 93.91%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 459.667 ms

Loss rate: 92.47%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 509.089 ms

Loss rate: 94.58%

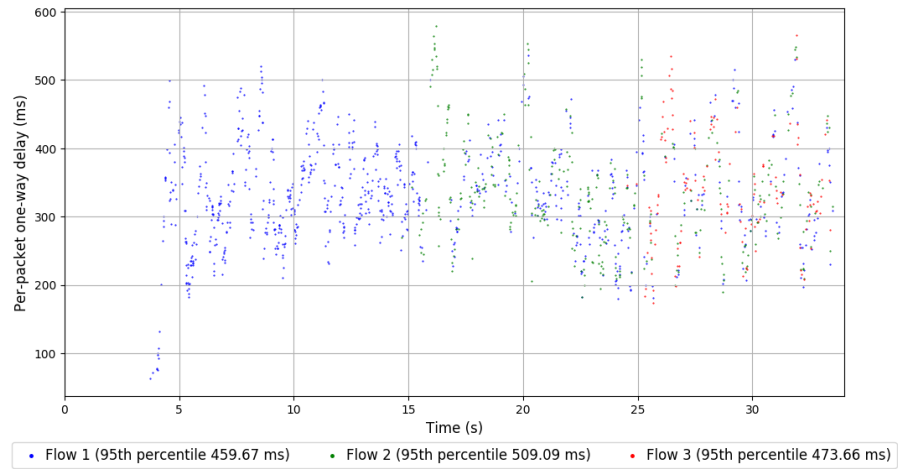
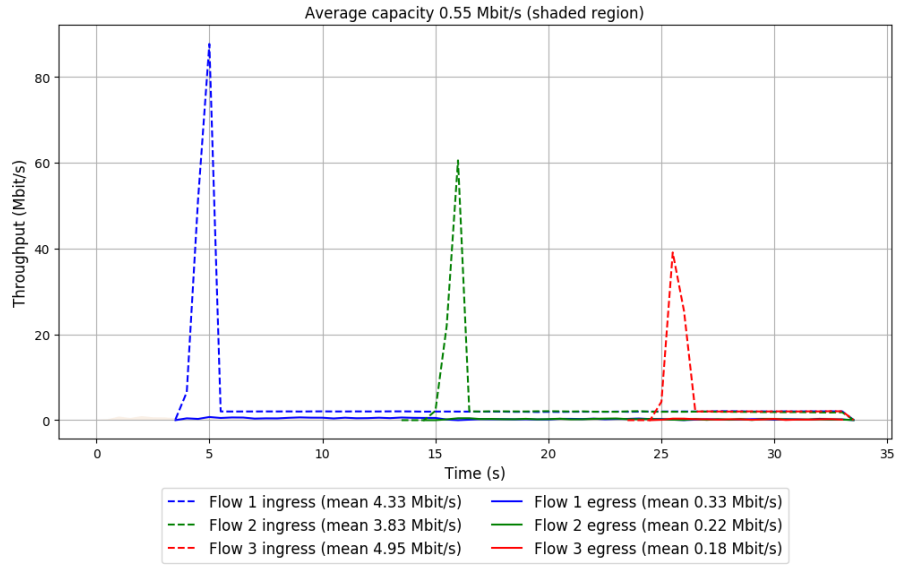
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 473.662 ms

Loss rate: 96.70%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 06:34:19

End at: 2018-02-16 06:34:49

Below is generated by plot.py at 2018-02-16 06:52:25

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.6% utilization)

95th percentile per-packet one-way delay: 477.170 ms

Loss rate: 93.37%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 468.369 ms

Loss rate: 93.86%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 501.161 ms

Loss rate: 92.58%

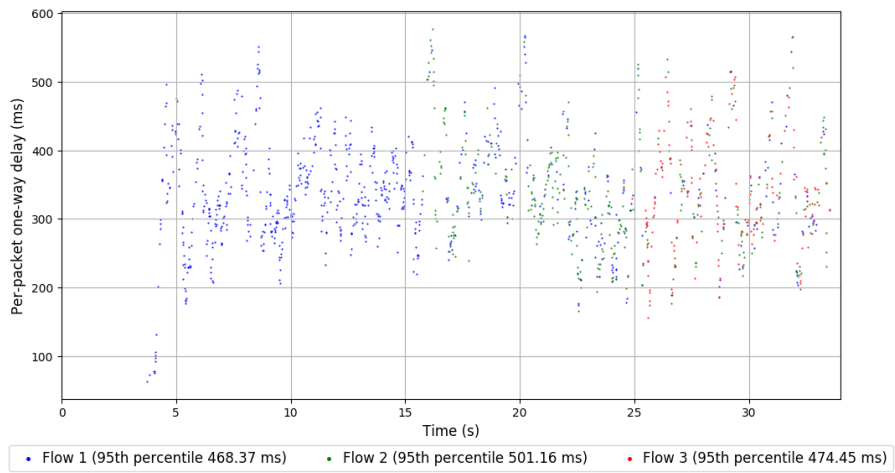
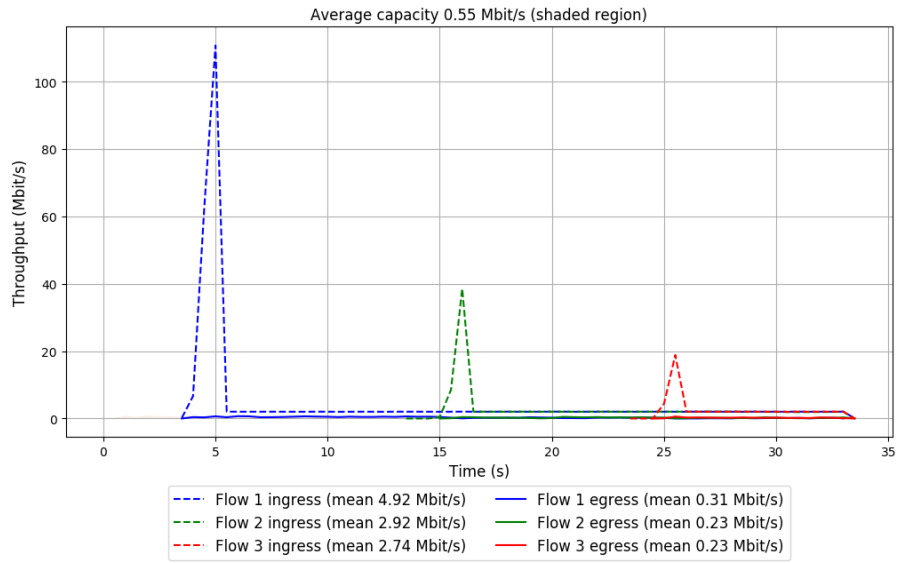
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 474.454 ms

Loss rate: 92.38%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 06:44:41

End at: 2018-02-16 06:45:11

Below is generated by plot.py at 2018-02-16 06:52:28

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.4% utilization)

95th percentile per-packet one-way delay: 473.148 ms

Loss rate: 91.10%

-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 473.083 ms

Loss rate: 91.39%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 263.775 ms

Loss rate: 92.31%

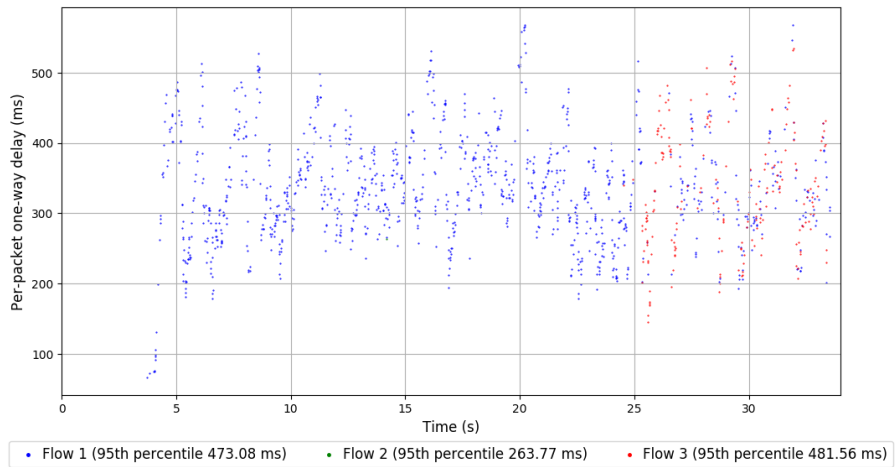
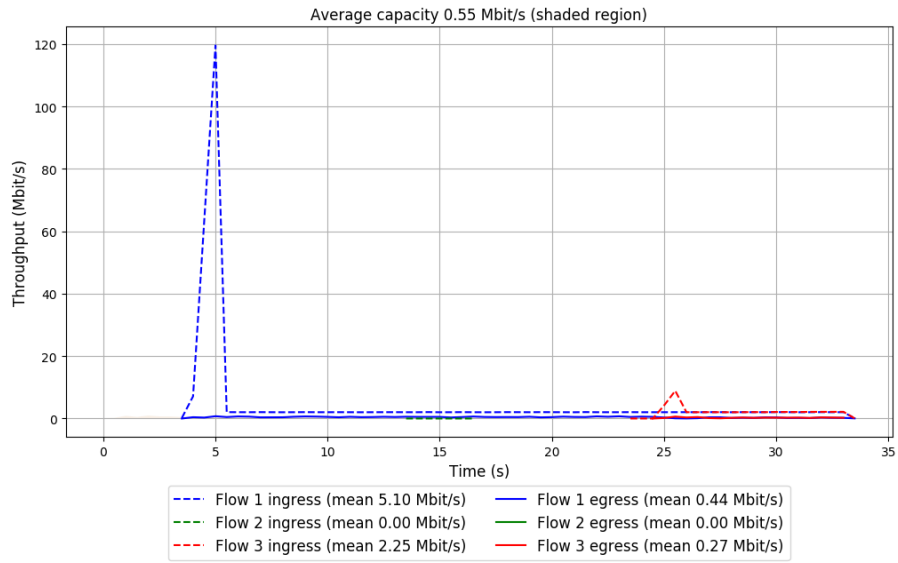
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 481.561 ms

Loss rate: 89.11%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 05:07:52

End at: 2018-02-16 05:08:22

Below is generated by plot.py at 2018-02-16 06:52:28

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.4% utilization)

95th percentile per-packet one-way delay: 435.753 ms

Loss rate: 29.44%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 412.643 ms

Loss rate: 26.39%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 452.750 ms

Loss rate: 29.07%

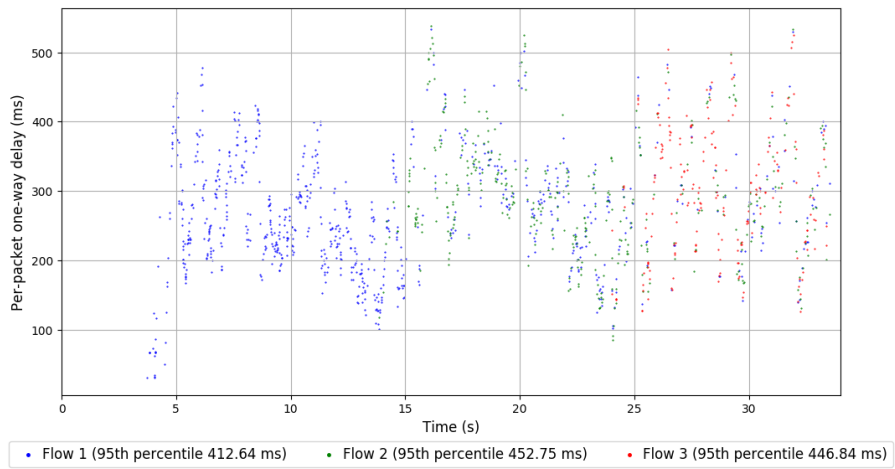
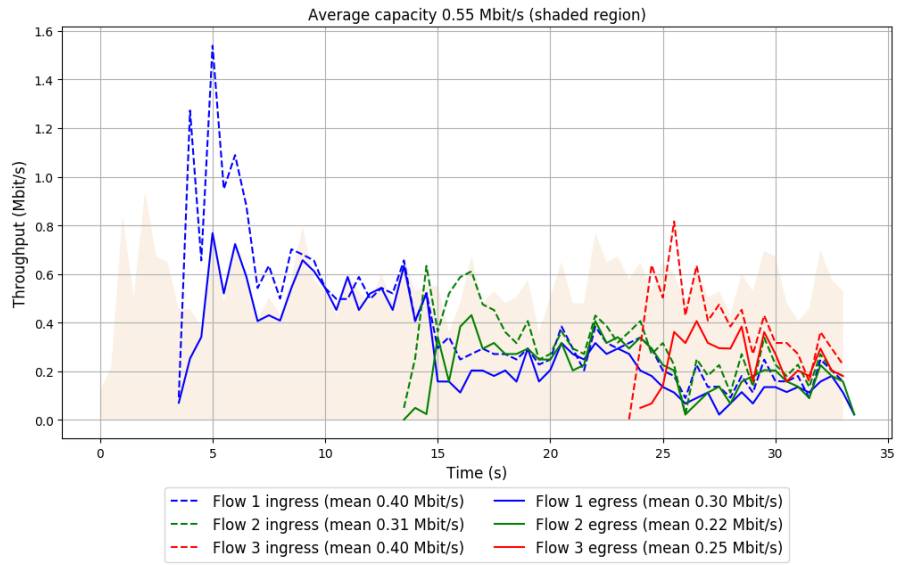
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 446.842 ms

Loss rate: 39.61%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 05:18:14

End at: 2018-02-16 05:18:44

Below is generated by plot.py at 2018-02-16 06:52:28

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.6% utilization)

95th percentile per-packet one-way delay: 432.547 ms

Loss rate: 31.00%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 413.765 ms

Loss rate: 25.87%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 446.361 ms

Loss rate: 35.00%

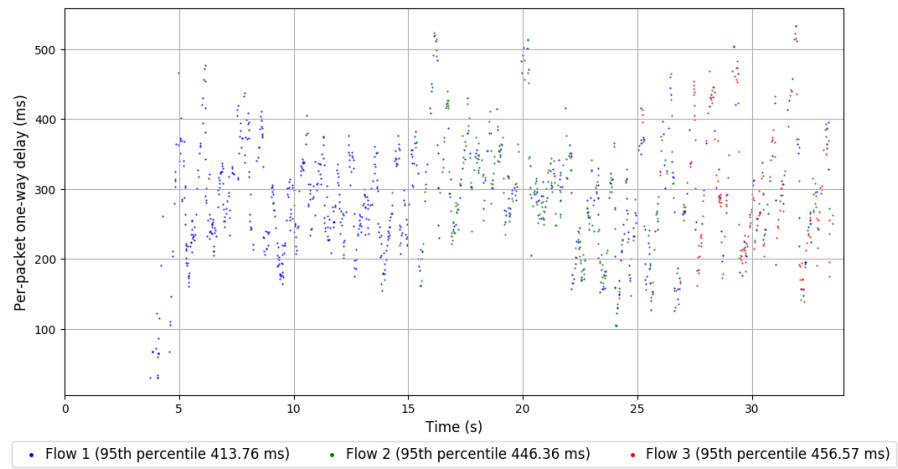
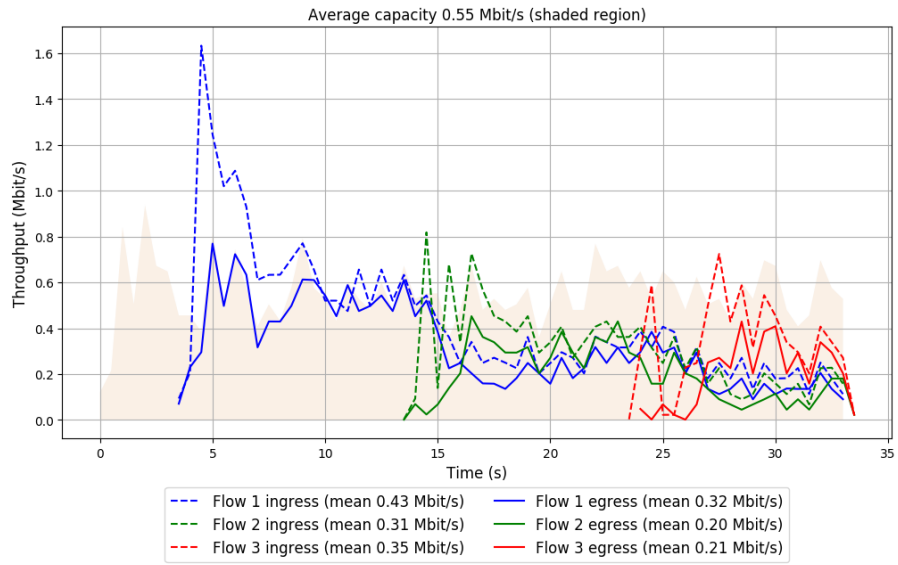
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 456.571 ms

Loss rate: 43.03%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 05:28:36

End at: 2018-02-16 05:29:06

Below is generated by plot.py at 2018-02-16 06:52:28

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.9% utilization)

95th percentile per-packet one-way delay: 440.811 ms

Loss rate: 29.37%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 415.497 ms

Loss rate: 23.27%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 455.806 ms

Loss rate: 32.45%

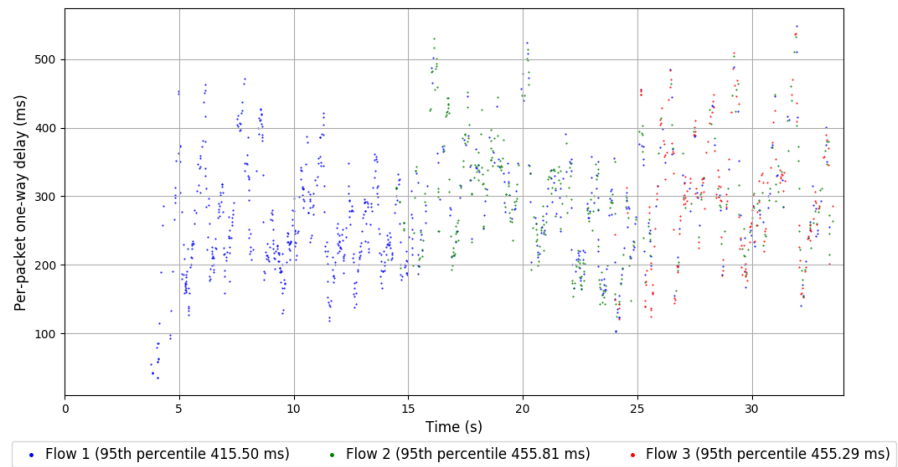
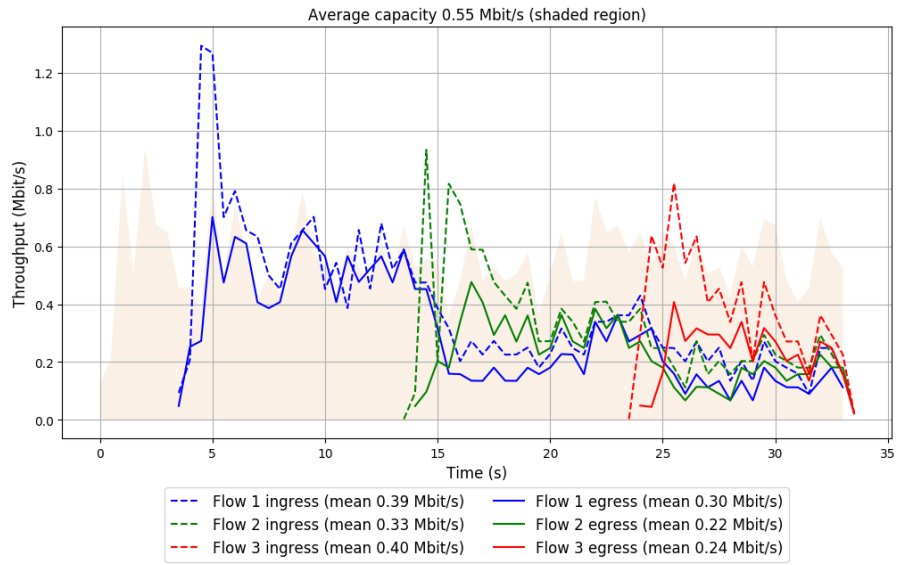
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 455.293 ms

Loss rate: 42.28%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 05:38:56

End at: 2018-02-16 05:39:26

Below is generated by plot.py at 2018-02-16 06:52:28

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 429.893 ms

Loss rate: 31.83%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 413.618 ms

Loss rate: 25.79%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 445.496 ms

Loss rate: 33.76%

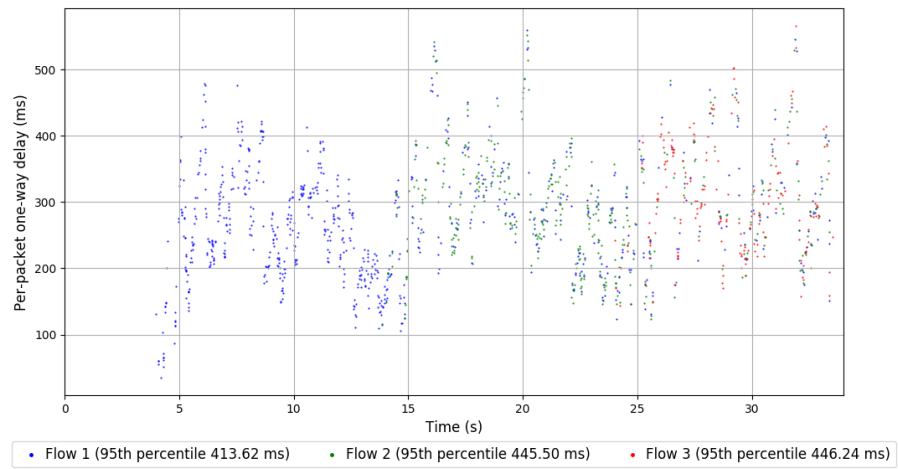
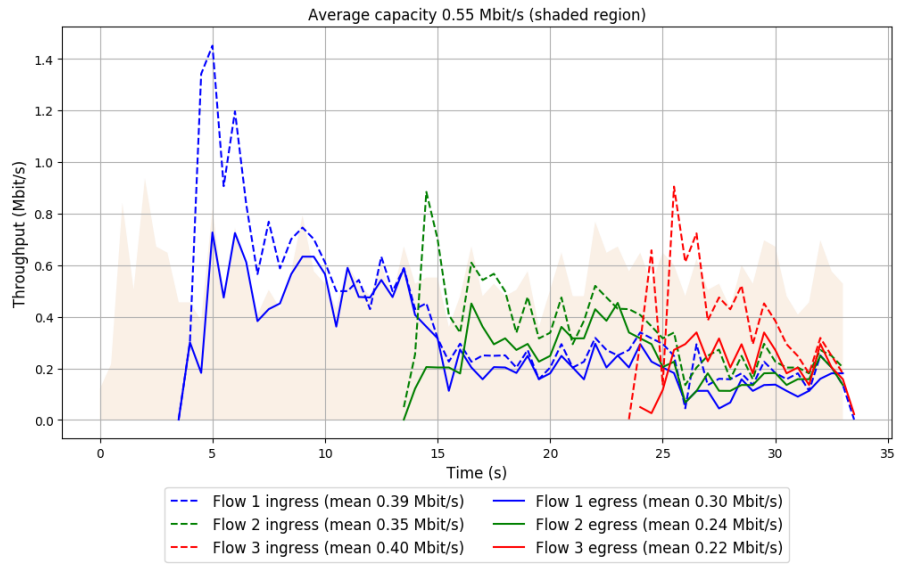
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 446.235 ms

Loss rate: 46.71%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 05:49:20

End at: 2018-02-16 05:49:50

Below is generated by plot.py at 2018-02-16 06:52:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (95.2% utilization)

95th percentile per-packet one-way delay: 433.160 ms

Loss rate: 27.93%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 410.019 ms

Loss rate: 18.84%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 445.549 ms

Loss rate: 36.16%

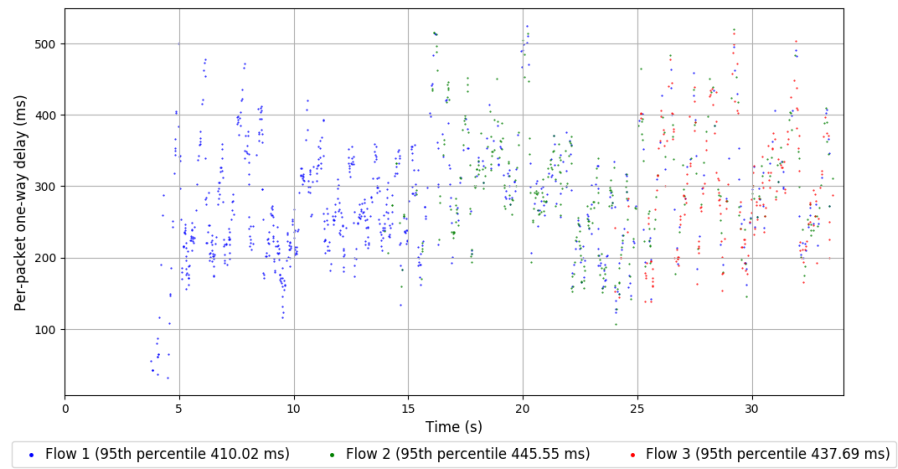
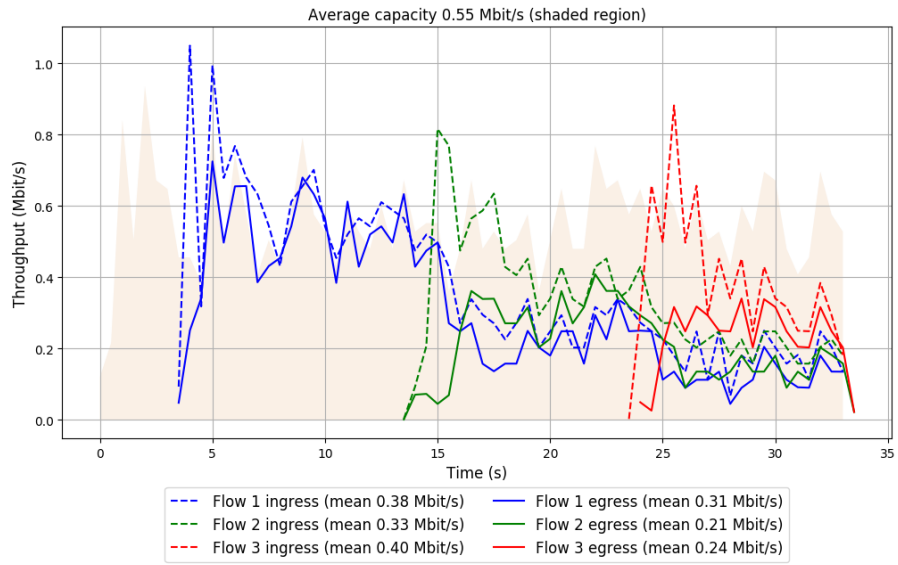
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 437.693 ms

Loss rate: 40.41%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-16 05:59:42

End at: 2018-02-16 06:00:12

Below is generated by plot.py at 2018-02-16 06:52:30

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.0% utilization)

95th percentile per-packet one-way delay: 422.520 ms

Loss rate: 29.08%

-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 394.875 ms

Loss rate: 19.39%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 443.822 ms

Loss rate: 35.43%

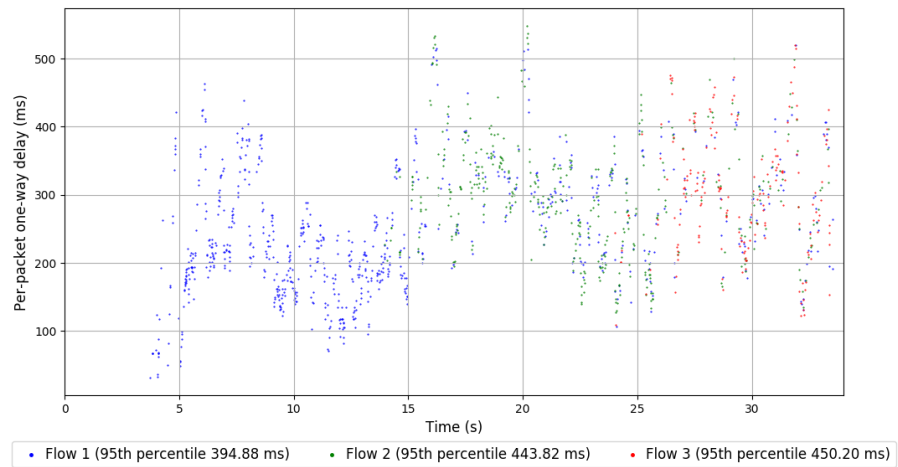
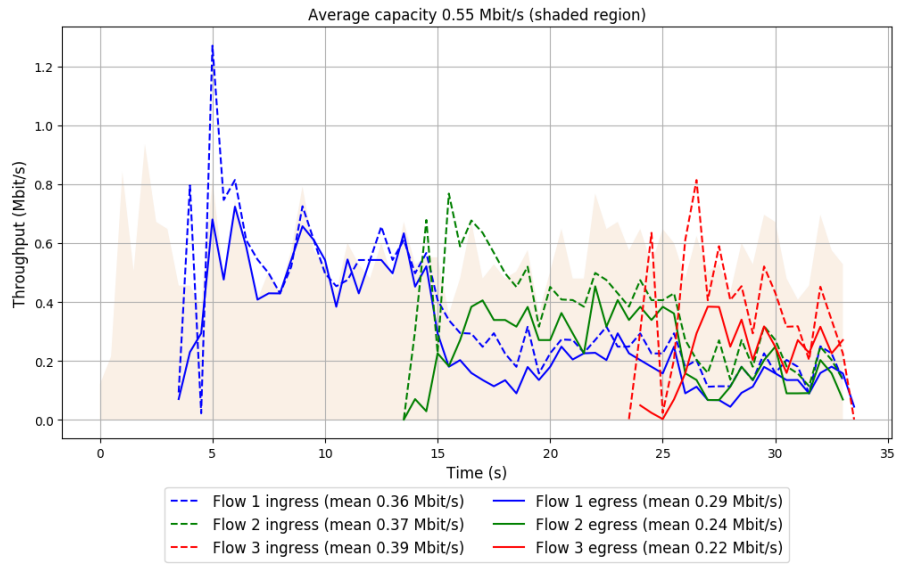
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 450.202 ms

Loss rate: 44.41%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 06:10:05

End at: 2018-02-16 06:10:35

Below is generated by plot.py at 2018-02-16 06:52:31

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.4% utilization)

95th percentile per-packet one-way delay: 434.152 ms

Loss rate: 29.12%

-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 409.111 ms

Loss rate: 20.74%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 468.508 ms

Loss rate: 33.97%

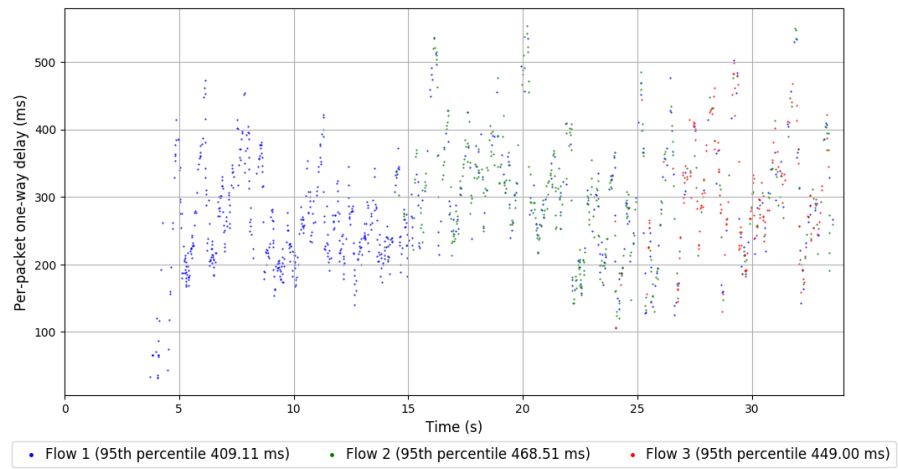
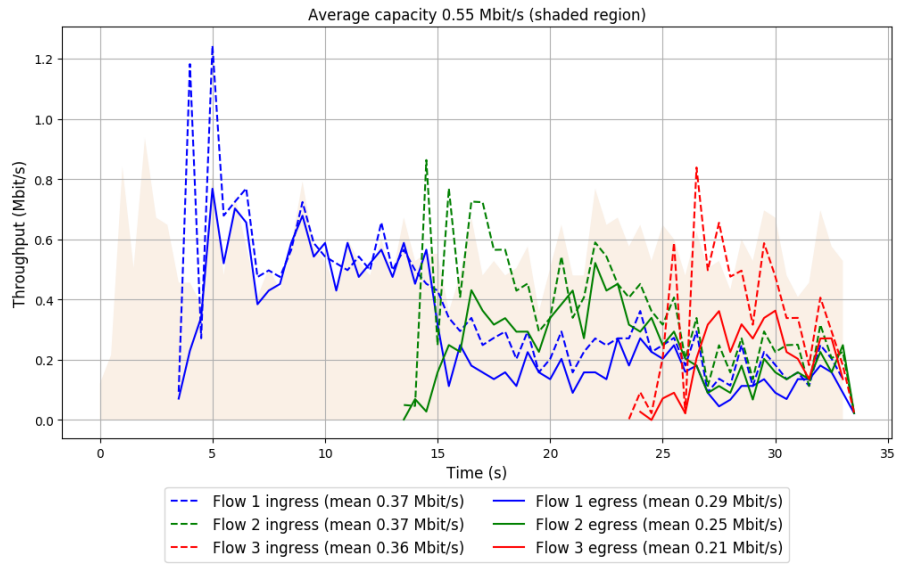
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 448.998 ms

Loss rate: 45.28%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 06:20:26

End at: 2018-02-16 06:20:56

Below is generated by plot.py at 2018-02-16 06:52:32

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.1% utilization)

95th percentile per-packet one-way delay: 428.818 ms

Loss rate: 29.16%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 410.950 ms

Loss rate: 22.28%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 445.463 ms

Loss rate: 31.96%

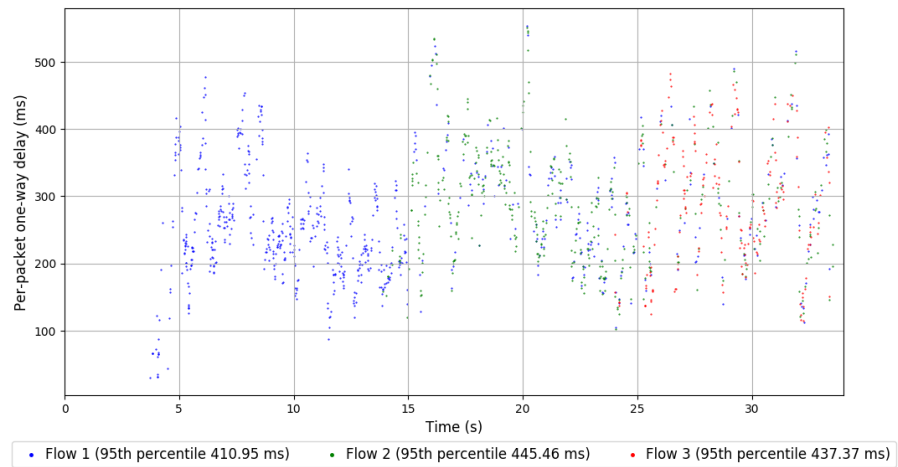
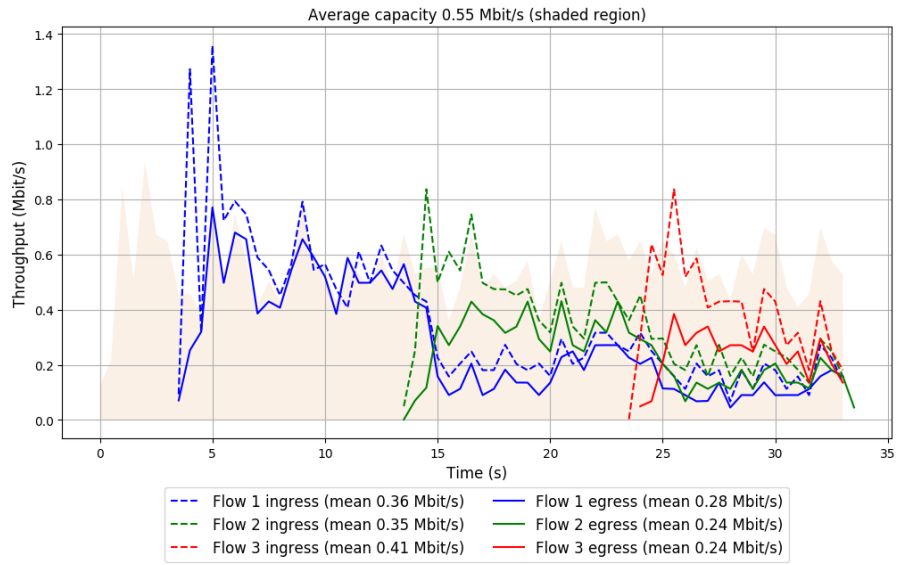
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 437.365 ms

Loss rate: 42.82%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 06:30:51

End at: 2018-02-16 06:31:21

Below is generated by plot.py at 2018-02-16 06:52:34

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.3% utilization)

95th percentile per-packet one-way delay: 430.857 ms

Loss rate: 27.52%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 411.972 ms

Loss rate: 20.31%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 445.034 ms

Loss rate: 33.27%

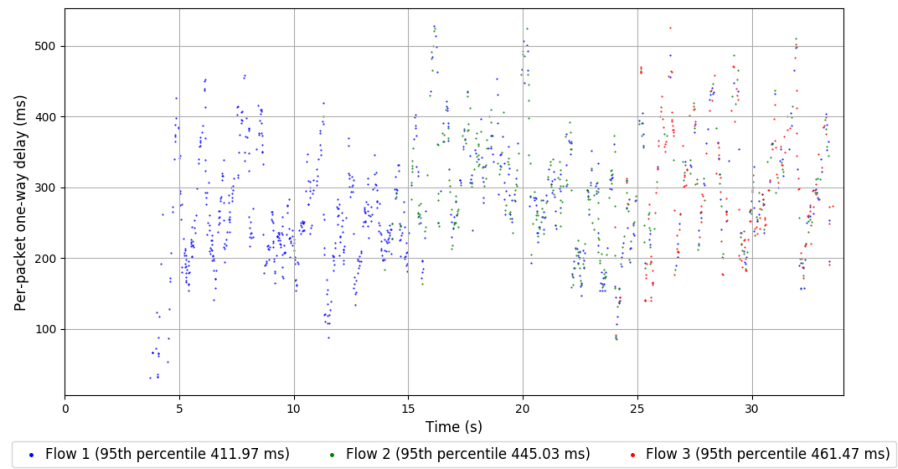
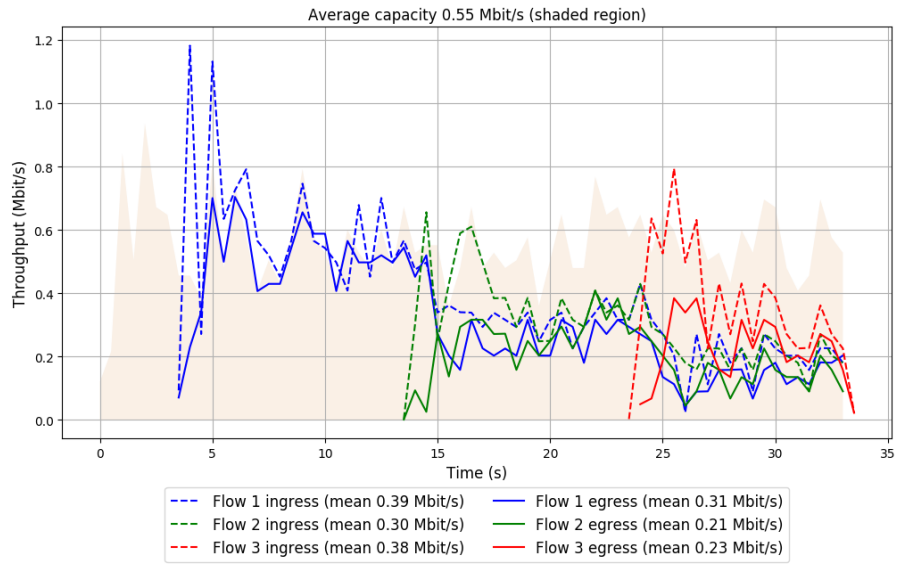
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 461.474 ms

Loss rate: 41.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 06:41:15

End at: 2018-02-16 06:41:45

Below is generated by plot.py at 2018-02-16 06:52:34

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.9% utilization)

95th percentile per-packet one-way delay: 429.120 ms

Loss rate: 27.40%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 410.859 ms

Loss rate: 20.18%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 459.964 ms

Loss rate: 31.68%

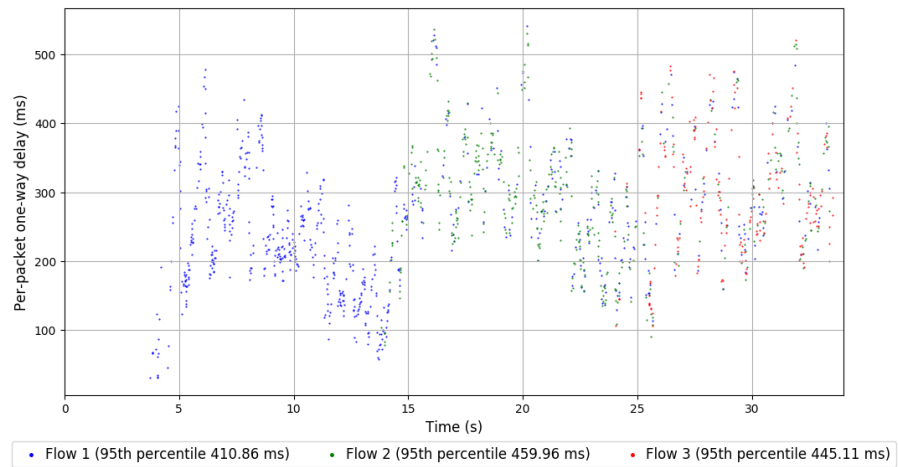
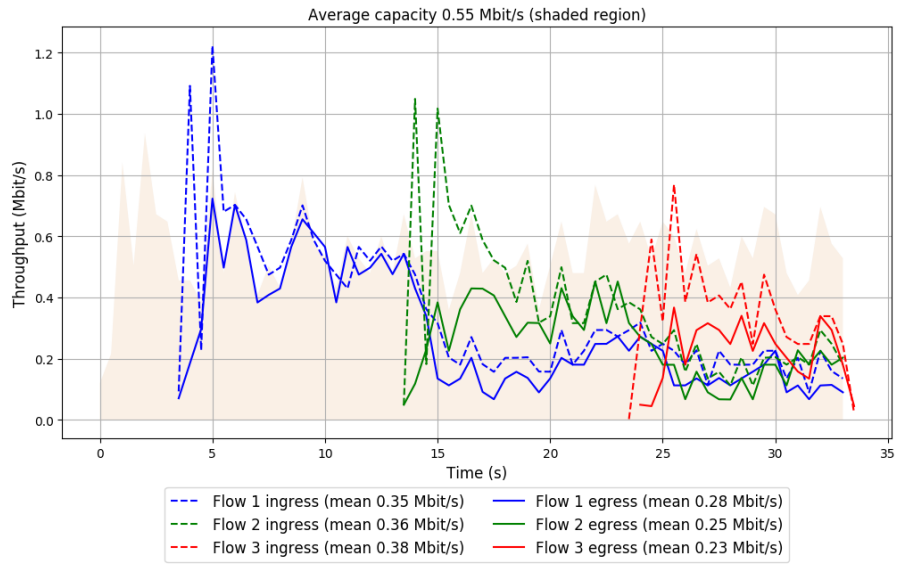
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 445.109 ms

Loss rate: 39.63%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-02-16 05:15:22

End at: 2018-02-16 05:15:52

Below is generated by plot.py at 2018-02-16 06:52:36

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.20 Mbit/s (35.6% utilization)

95th percentile per-packet one-way delay: 111.914 ms

Loss rate: 5.05%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 106.605 ms

Loss rate: 5.33%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 112.896 ms

Loss rate: 5.16%

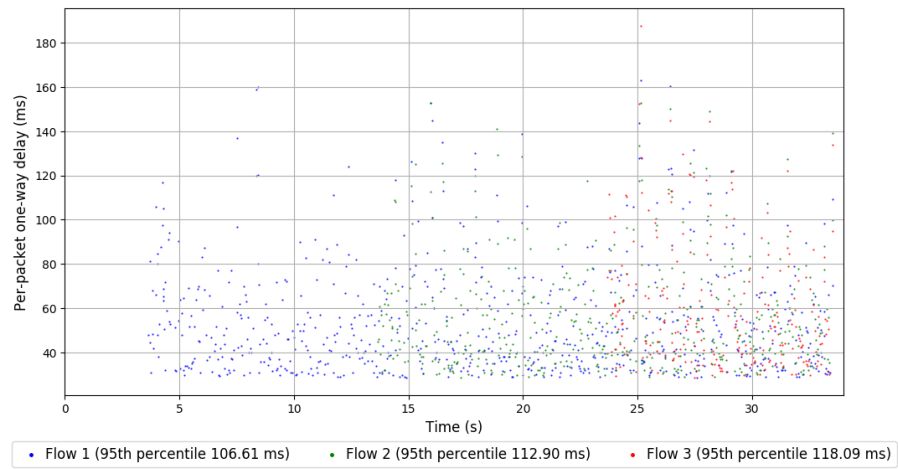
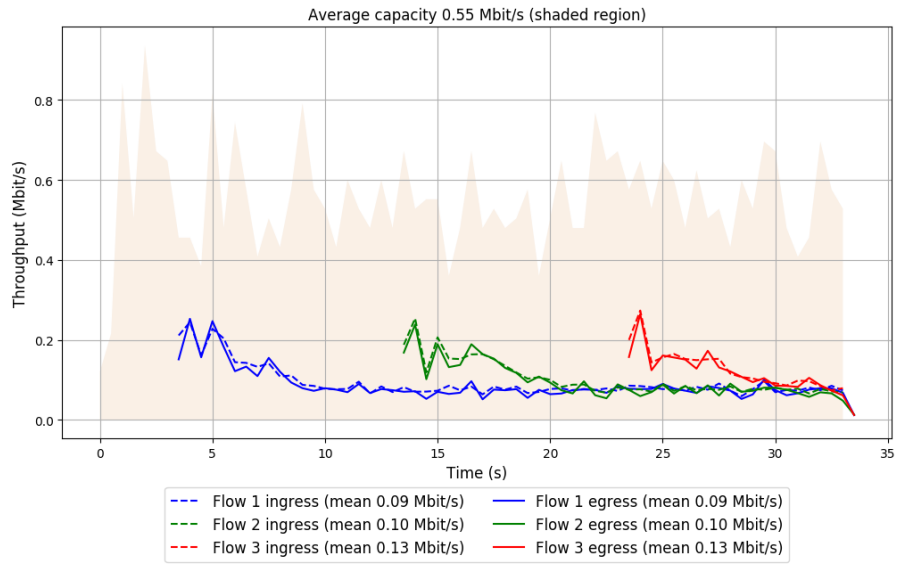
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 118.090 ms

Loss rate: 4.28%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-16 05:25:44

End at: 2018-02-16 05:26:14

Below is generated by plot.py at 2018-02-16 06:52:37

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.20 Mbit/s (36.6% utilization)

95th percentile per-packet one-way delay: 106.468 ms

Loss rate: 4.73%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 103.757 ms

Loss rate: 2.93%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 106.468 ms

Loss rate: 7.48%

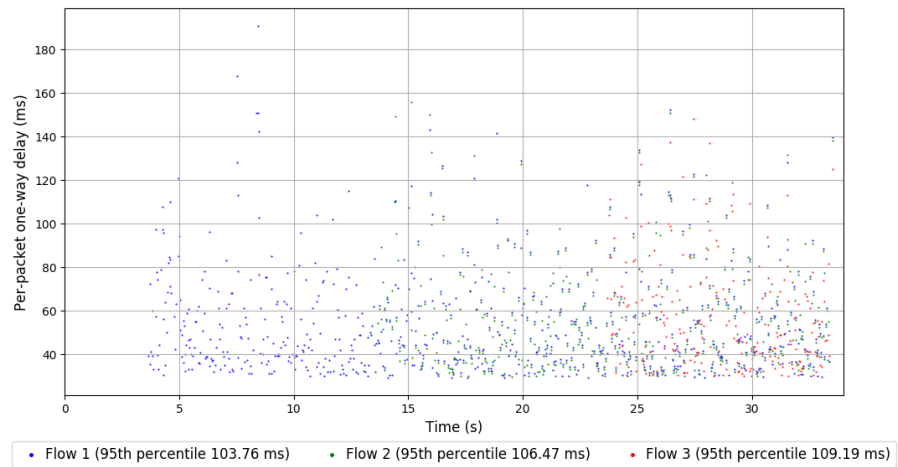
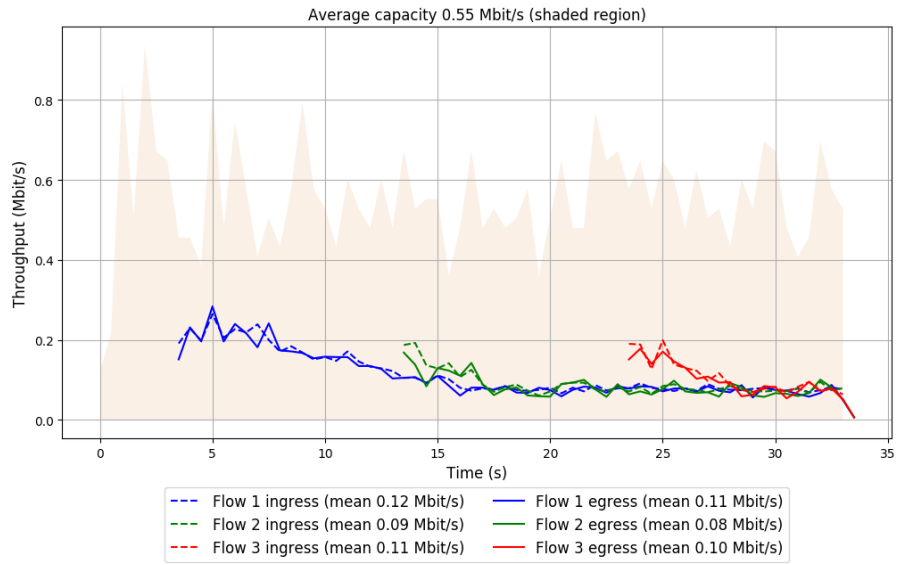
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 109.189 ms

Loss rate: 5.89%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-16 05:36:04

End at: 2018-02-16 05:36:34

Below is generated by plot.py at 2018-02-16 06:52:38

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.19 Mbit/s (34.7% utilization)

95th percentile per-packet one-way delay: 108.598 ms

Loss rate: 4.52%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 101.883 ms

Loss rate: 5.88%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 111.025 ms

Loss rate: 2.72%

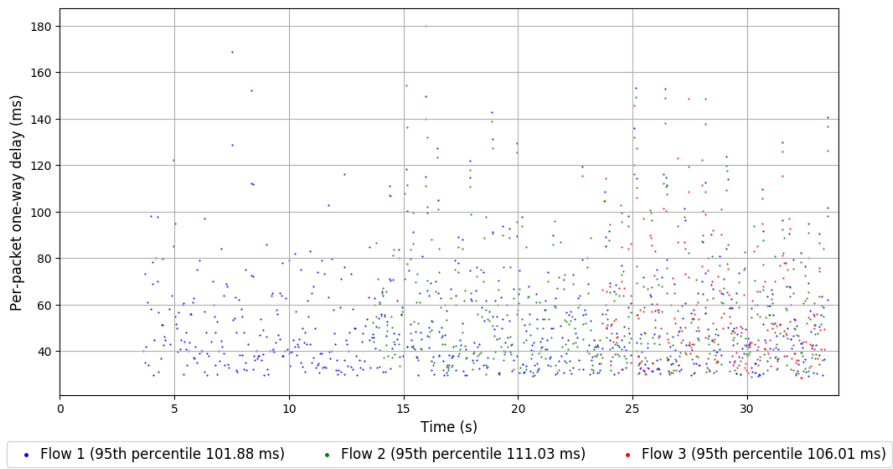
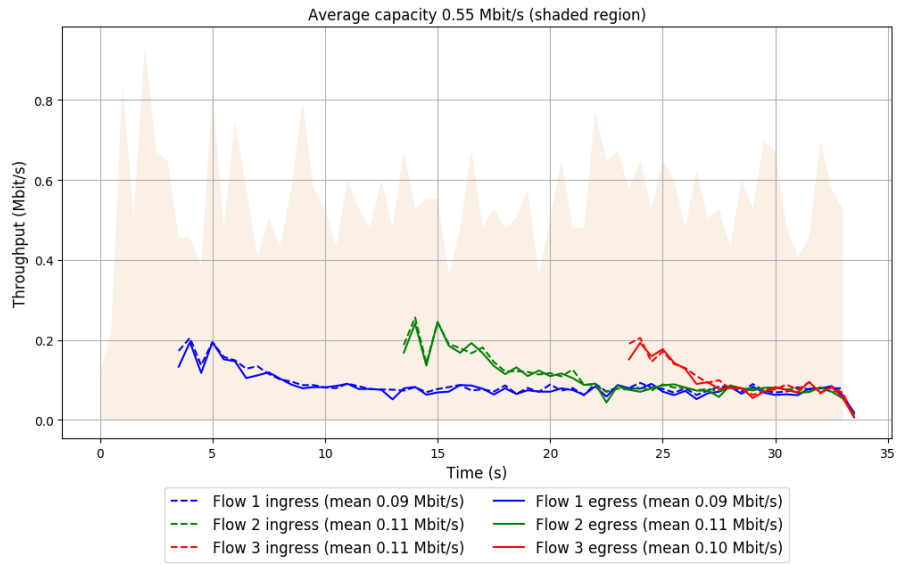
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 106.014 ms

Loss rate: 4.75%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-16 05:46:27

End at: 2018-02-16 05:46:57

Below is generated by plot.py at 2018-02-16 06:52:39

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.18 Mbit/s (32.2% utilization)

95th percentile per-packet one-way delay: 105.694 ms

Loss rate: 4.95%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 98.494 ms

Loss rate: 5.32%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 108.344 ms

Loss rate: 4.18%

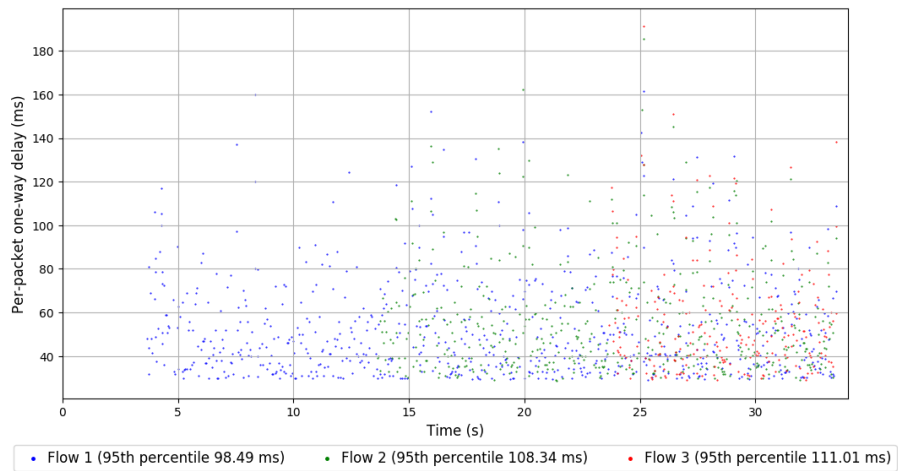
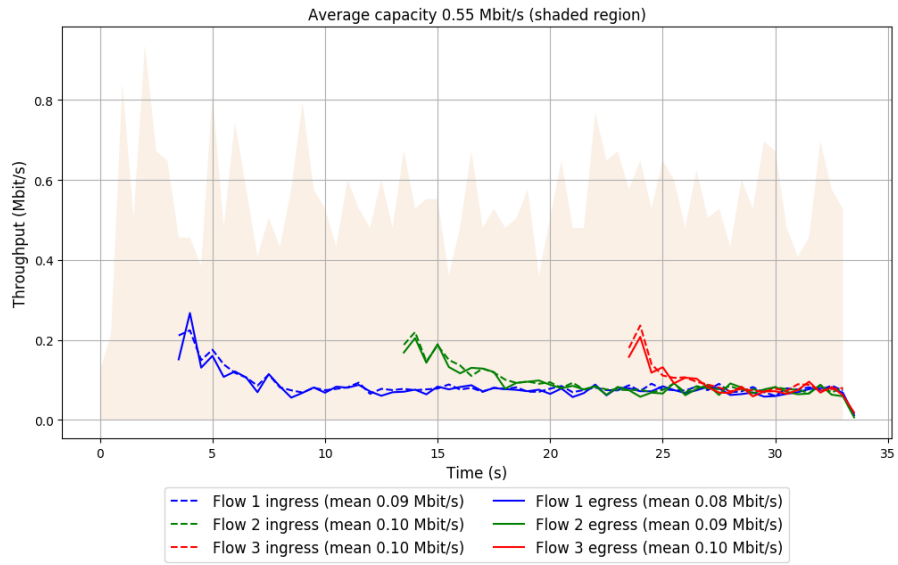
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 111.006 ms

Loss rate: 5.48%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-16 05:56:48

End at: 2018-02-16 05:57:18

Below is generated by plot.py at 2018-02-16 06:52:40

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.18 Mbit/s (32.2% utilization)

95th percentile per-packet one-way delay: 106.398 ms

Loss rate: 5.98%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 104.338 ms

Loss rate: 6.10%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 106.665 ms

Loss rate: 6.36%

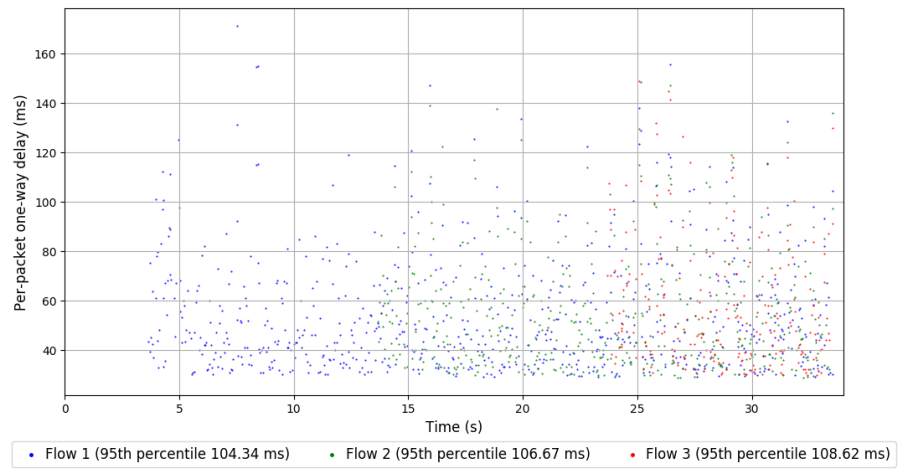
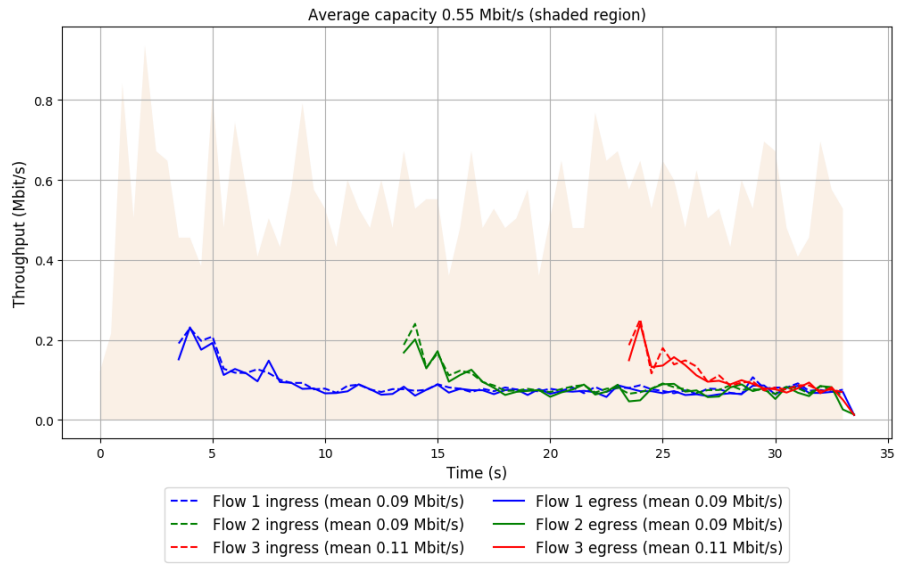
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 108.623 ms

Loss rate: 5.11%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-16 06:07:12

End at: 2018-02-16 06:07:42

Below is generated by plot.py at 2018-02-16 06:52:40

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.19 Mbit/s (34.4% utilization)

95th percentile per-packet one-way delay: 111.931 ms

Loss rate: 4.96%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 103.856 ms

Loss rate: 5.66%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 115.314 ms

Loss rate: 4.26%

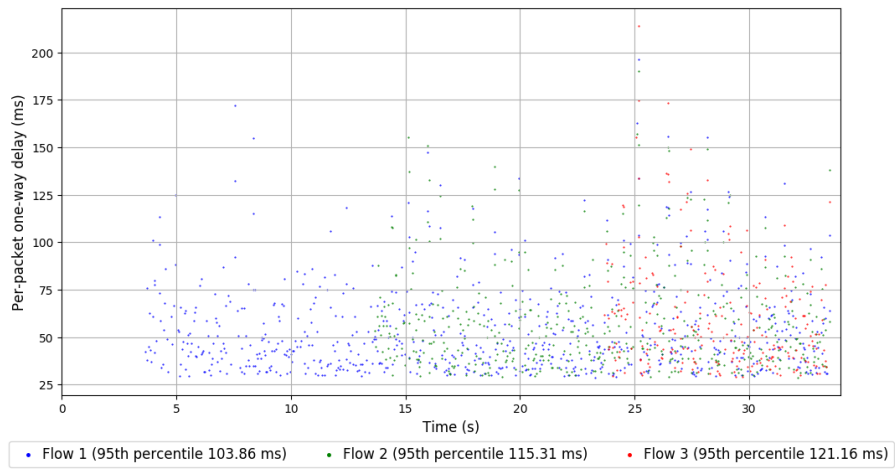
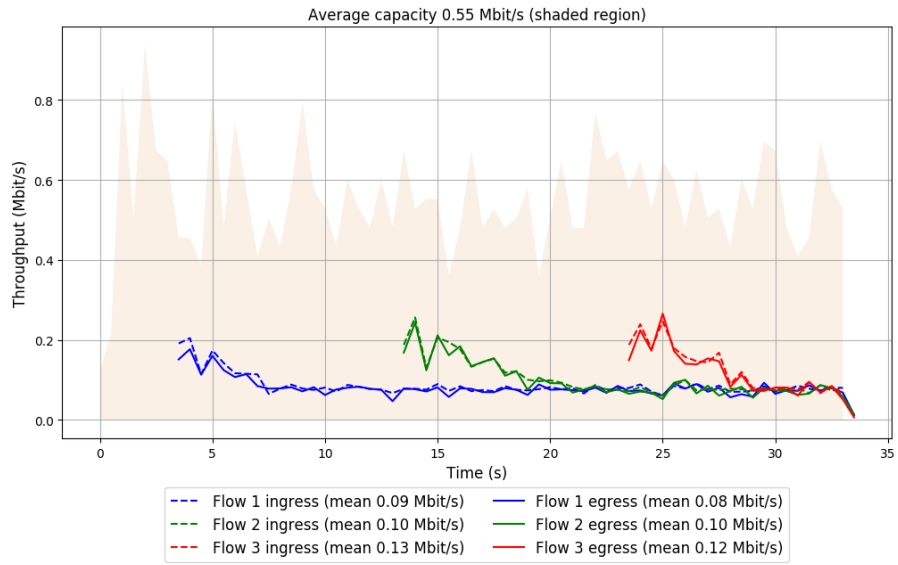
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 121.159 ms

Loss rate: 4.70%

Run 6: Report of SCReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-16 06:17:34

End at: 2018-02-16 06:18:04

Below is generated by plot.py at 2018-02-16 06:52:42

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.19 Mbit/s (34.9% utilization)

95th percentile per-packet one-way delay: 109.577 ms

Loss rate: 5.48%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 104.421 ms

Loss rate: 6.55%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 115.193 ms

Loss rate: 4.59%

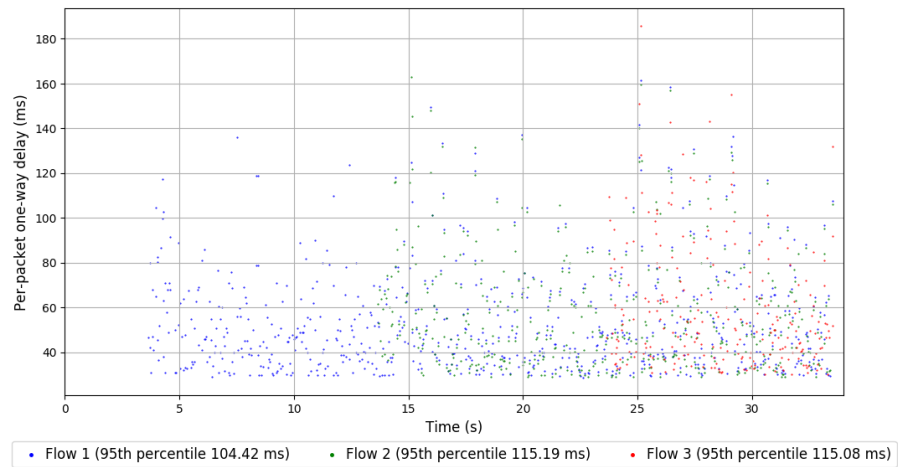
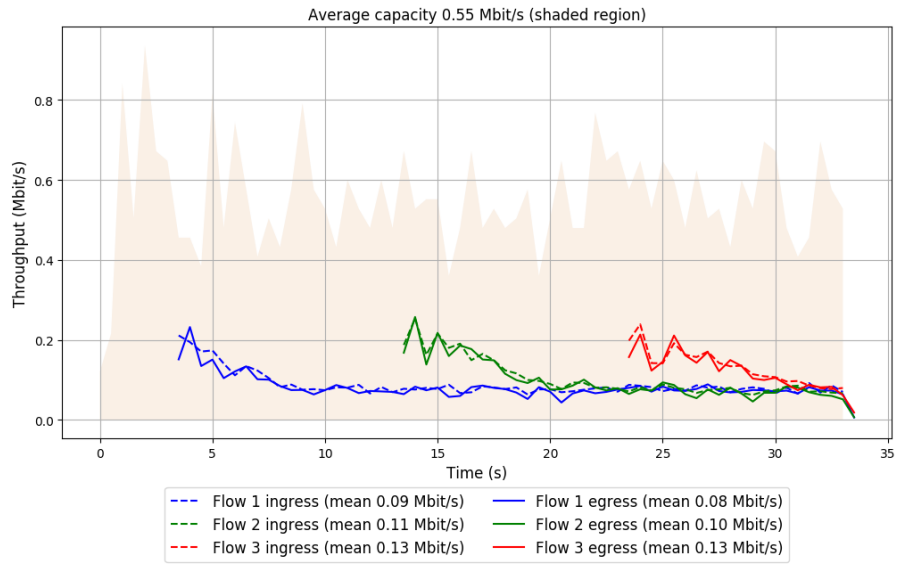
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 115.080 ms

Loss rate: 4.75%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-16 06:27:58

End at: 2018-02-16 06:28:28

Below is generated by plot.py at 2018-02-16 06:52:43

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.19 Mbit/s (34.3% utilization)

95th percentile per-packet one-way delay: 108.778 ms

Loss rate: 5.07%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 102.627 ms

Loss rate: 4.93%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 111.714 ms

Loss rate: 5.74%

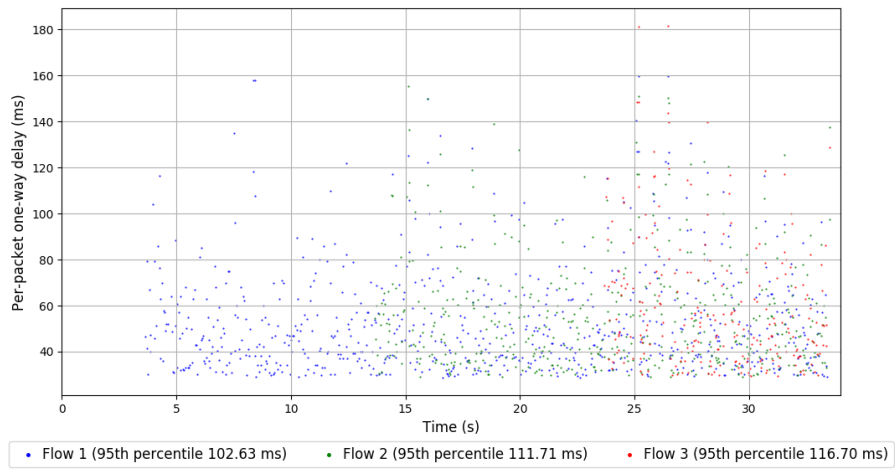
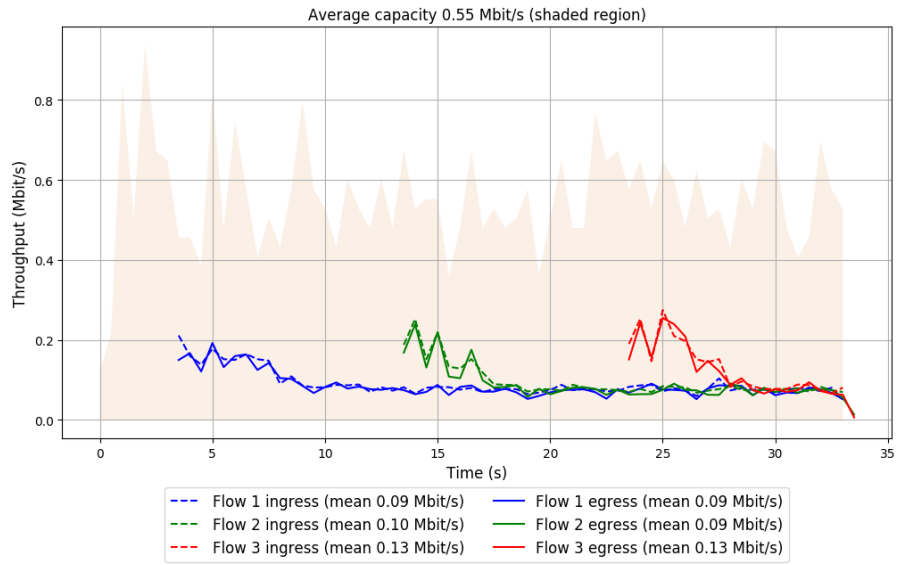
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 116.702 ms

Loss rate: 4.37%

Run 8: Report of SCReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 06:38:23

End at: 2018-02-16 06:38:53

Below is generated by plot.py at 2018-02-16 06:52:44

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.19 Mbit/s (34.0% utilization)

95th percentile per-packet one-way delay: 108.946 ms

Loss rate: 4.56%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 105.155 ms

Loss rate: 3.87%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 111.572 ms

Loss rate: 4.68%

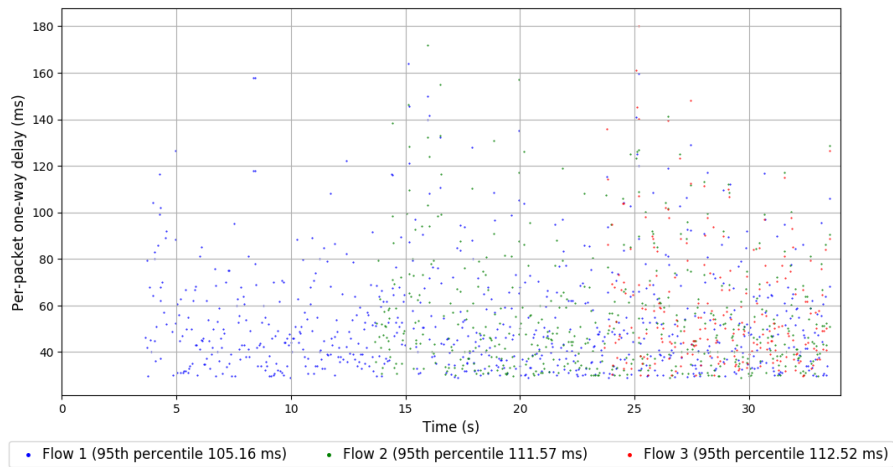
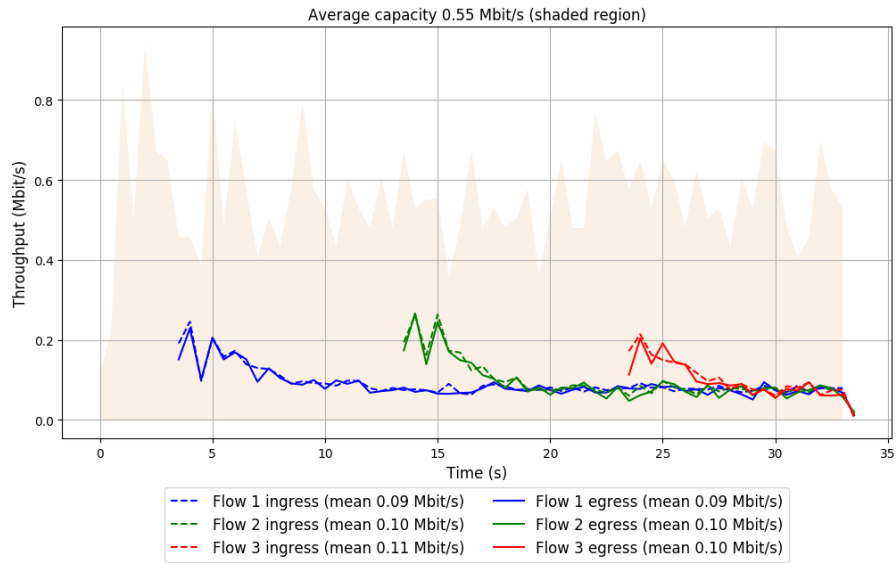
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 112.520 ms

Loss rate: 6.12%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 06:48:43

End at: 2018-02-16 06:49:13

Below is generated by plot.py at 2018-02-16 06:52:45

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.18 Mbit/s (33.1% utilization)

95th percentile per-packet one-way delay: 105.764 ms

Loss rate: 6.29%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 100.694 ms

Loss rate: 5.89%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 107.255 ms

Loss rate: 6.55%

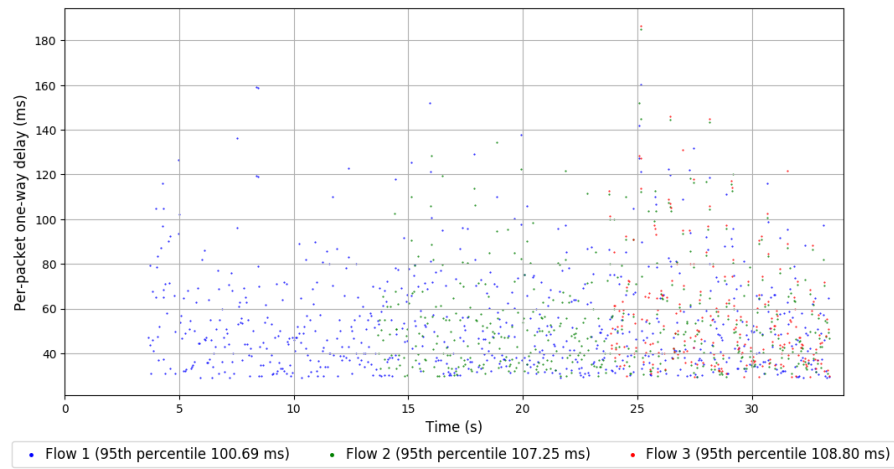
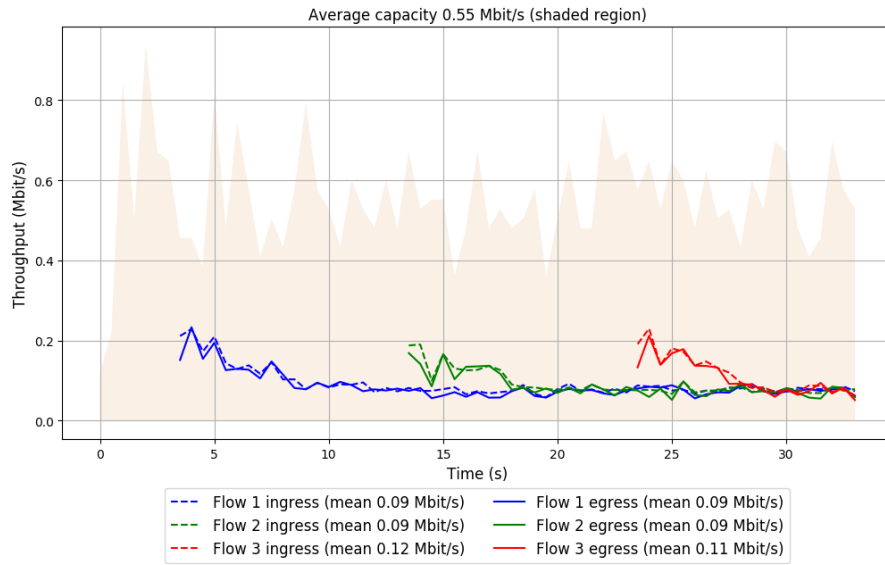
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 108.803 ms

Loss rate: 6.79%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-16 05:09:36

End at: 2018-02-16 05:10:06

Below is generated by plot.py at 2018-02-16 06:52:47

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.37 Mbit/s (66.6% utilization)

95th percentile per-packet one-way delay: 352.698 ms

Loss rate: 40.41%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 345.852 ms

Loss rate: 27.19%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 342.546 ms

Loss rate: 50.62%

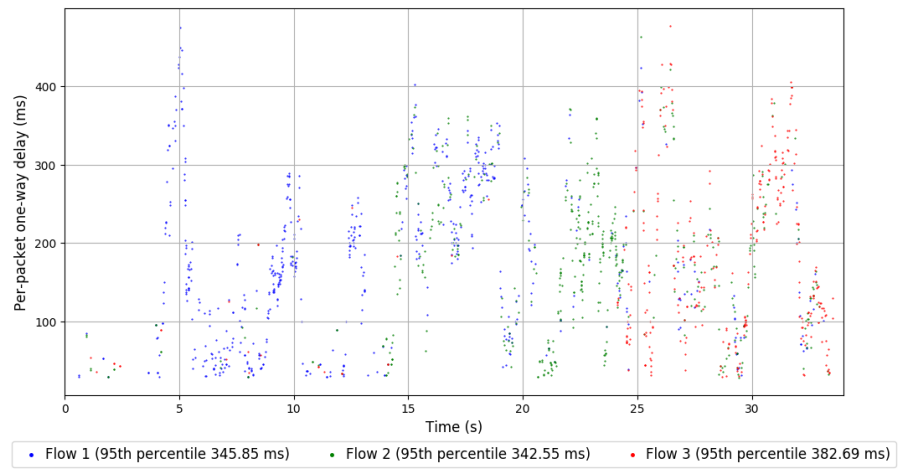
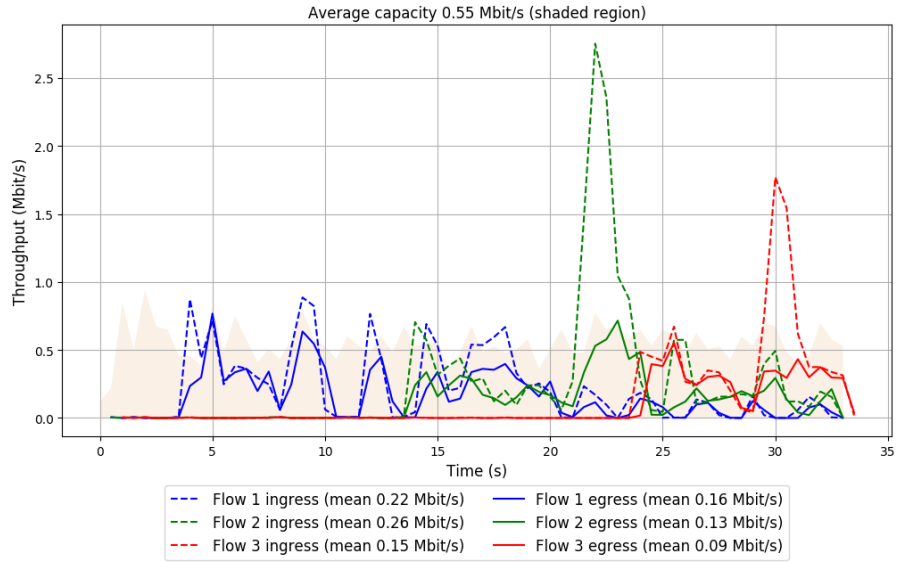
-- Flow 3:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 382.685 ms

Loss rate: 41.66%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-16 05:19:57

End at: 2018-02-16 05:20:27

Below is generated by plot.py at 2018-02-16 06:52:48

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.35 Mbit/s (62.8% utilization)

95th percentile per-packet one-way delay: 340.202 ms

Loss rate: 30.78%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 346.861 ms

Loss rate: 25.43%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 332.469 ms

Loss rate: 30.26%

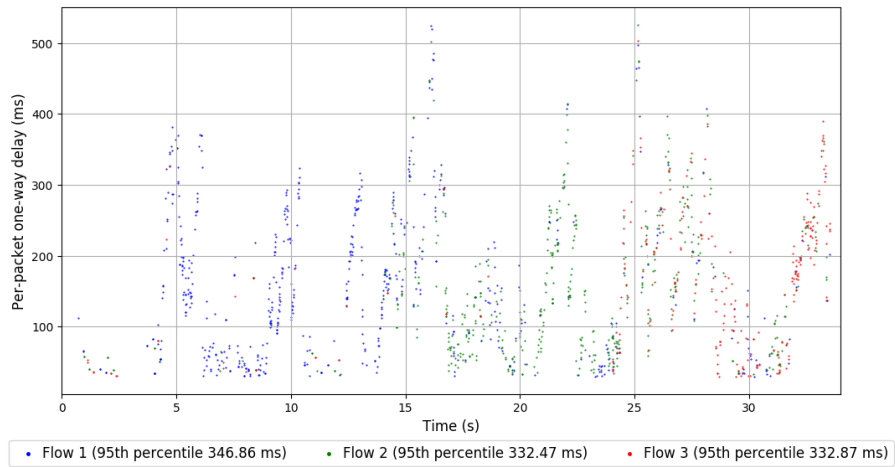
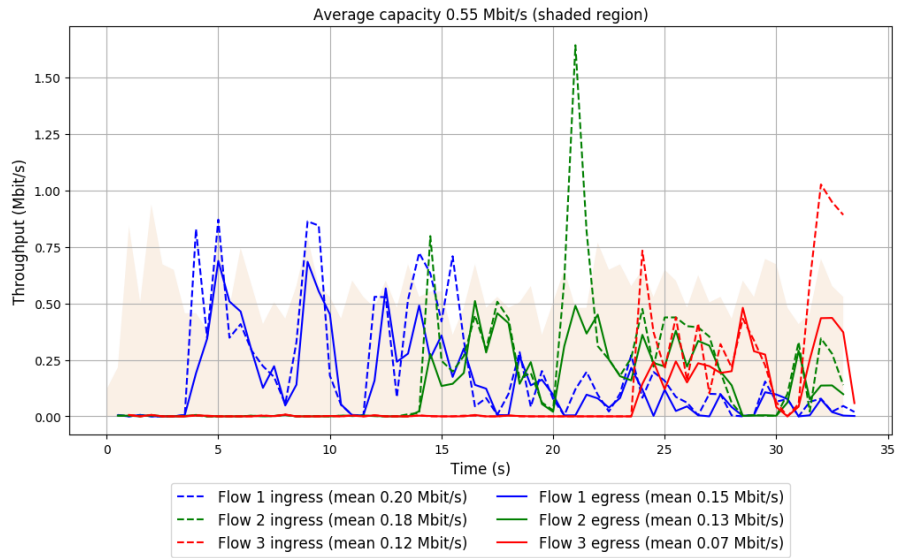
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 332.867 ms

Loss rate: 40.98%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-16 05:30:19

End at: 2018-02-16 05:30:49

Below is generated by plot.py at 2018-02-16 06:52:49

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (69.1% utilization)

95th percentile per-packet one-way delay: 358.524 ms

Loss rate: 29.28%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 332.000 ms

Loss rate: 26.19%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 361.826 ms

Loss rate: 29.74%

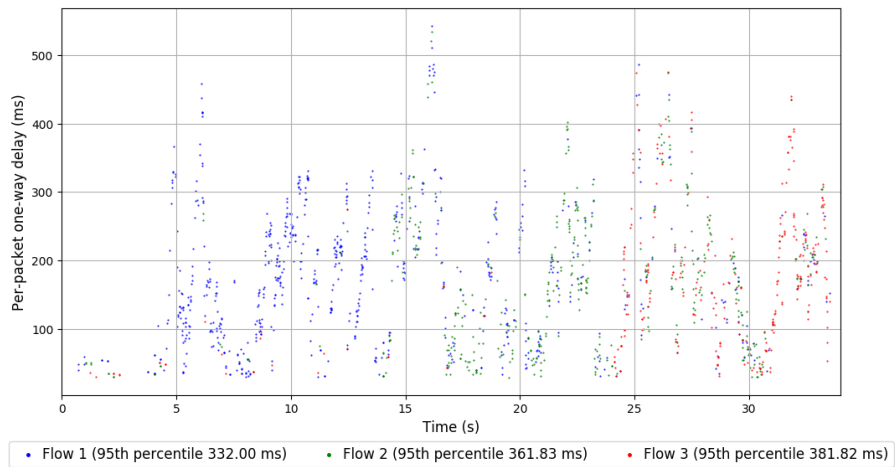
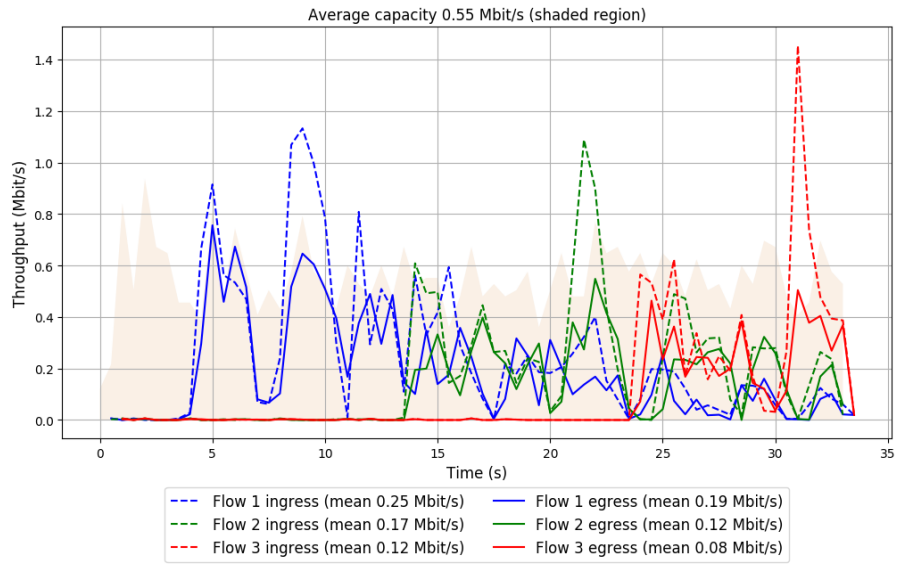
-- Flow 3:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 381.821 ms

Loss rate: 35.34%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-16 05:40:40

End at: 2018-02-16 05:41:10

Below is generated by plot.py at 2018-02-16 06:52:49

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (68.3% utilization)

95th percentile per-packet one-way delay: 352.543 ms

Loss rate: 32.54%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 352.363 ms

Loss rate: 41.68%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 342.949 ms

Loss rate: 17.68%

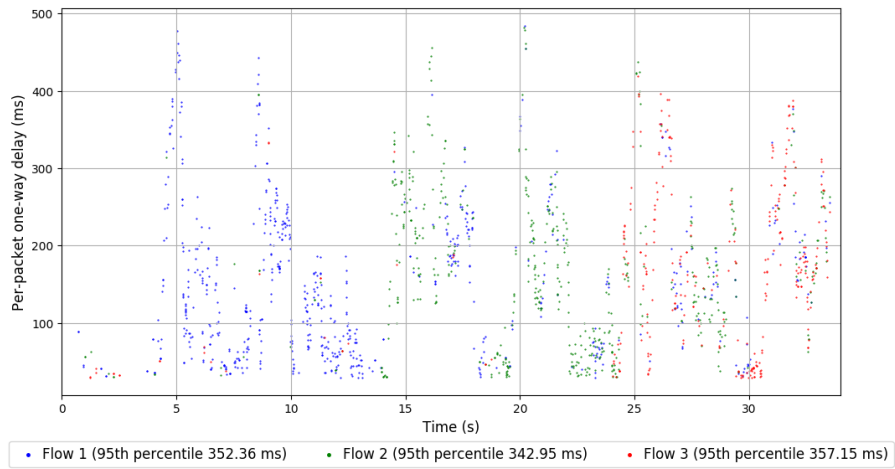
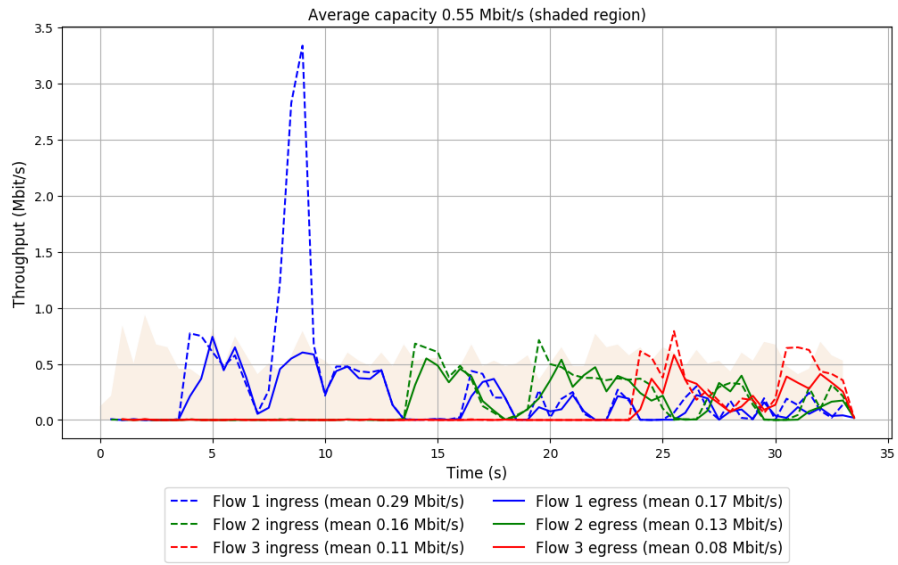
-- Flow 3:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 357.151 ms

Loss rate: 30.25%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-16 05:51:03

End at: 2018-02-16 05:51:33

Below is generated by plot.py at 2018-02-16 06:52:50

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.36 Mbit/s (65.1% utilization)

95th percentile per-packet one-way delay: 328.194 ms

Loss rate: 28.79%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 336.639 ms

Loss rate: 20.15%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 318.790 ms

Loss rate: 34.78%

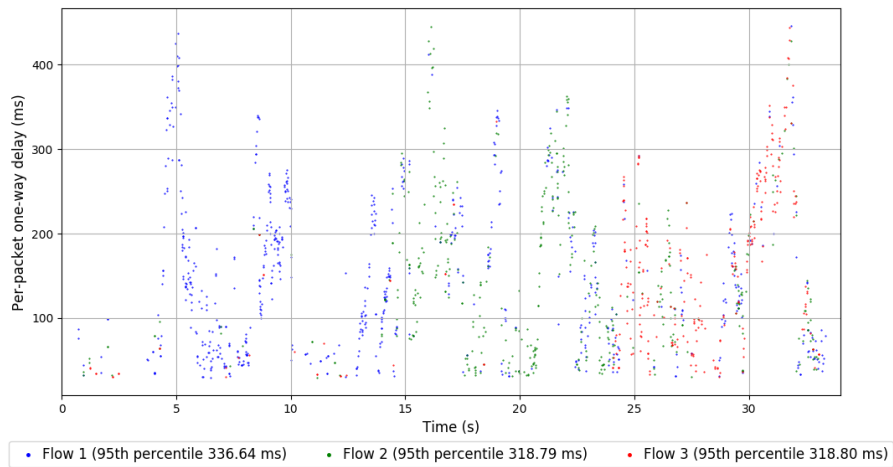
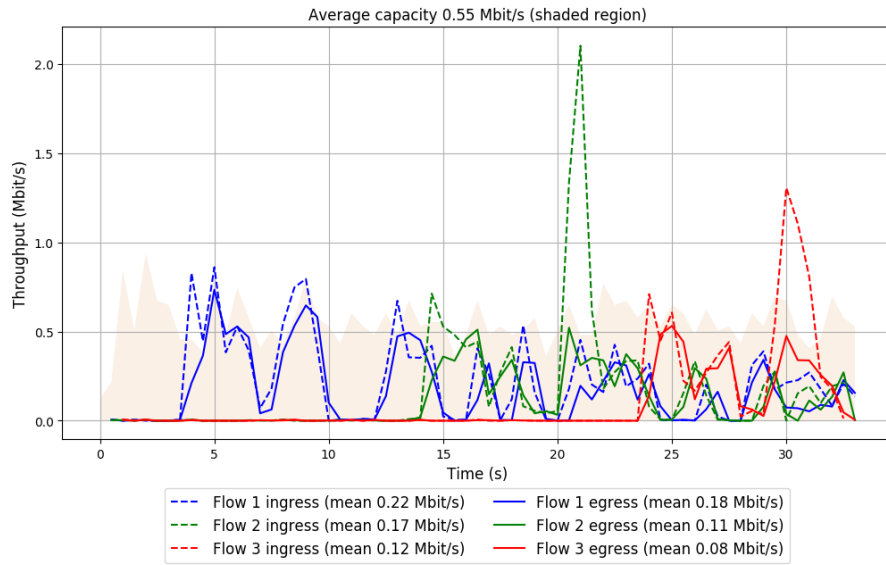
-- Flow 3:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 318.797 ms

Loss rate: 36.65%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-16 06:01:26

End at: 2018-02-16 06:01:56

Below is generated by plot.py at 2018-02-16 06:52:51

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.36 Mbit/s (65.5% utilization)

95th percentile per-packet one-way delay: 352.575 ms

Loss rate: 30.28%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 351.191 ms

Loss rate: 35.83%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 351.711 ms

Loss rate: 19.54%

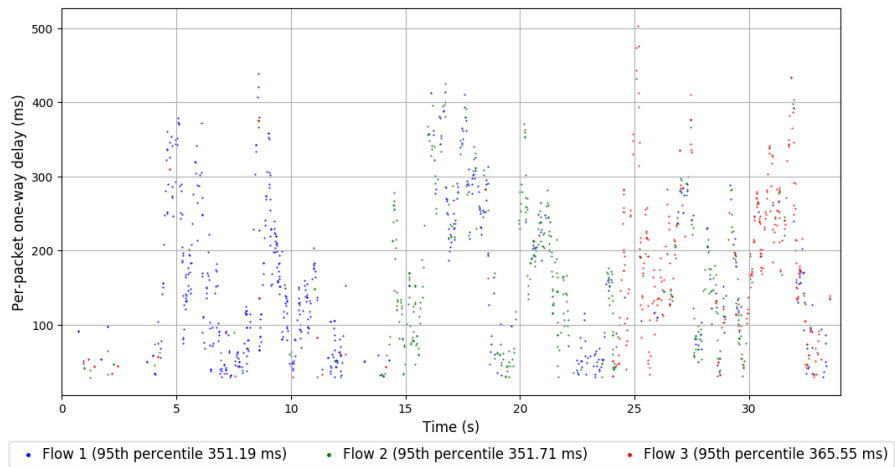
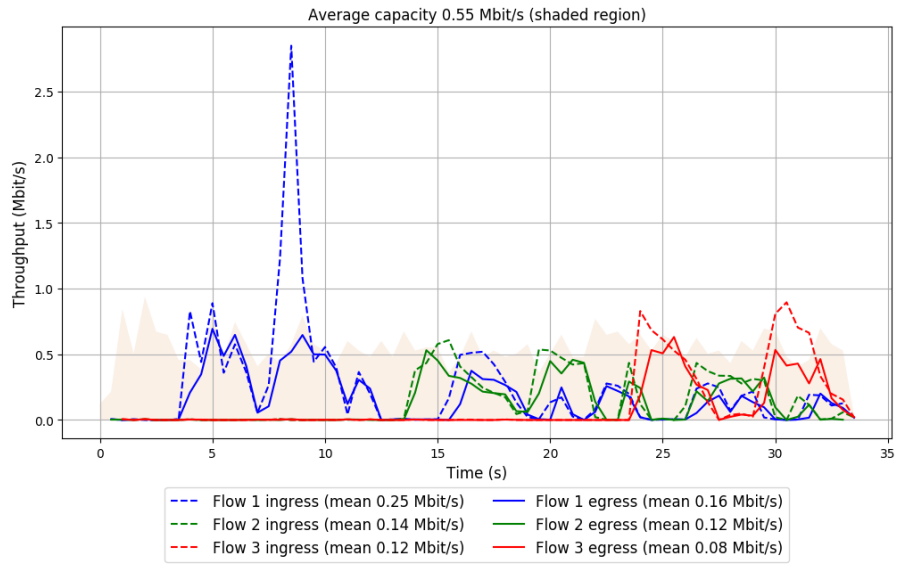
-- Flow 3:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 365.553 ms

Loss rate: 31.36%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-16 06:11:49

End at: 2018-02-16 06:12:19

Below is generated by plot.py at 2018-02-16 06:52:52

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.34 Mbit/s (61.3% utilization)

95th percentile per-packet one-way delay: 343.387 ms

Loss rate: 21.75%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 340.724 ms

Loss rate: 15.83%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 325.697 ms

Loss rate: 23.02%

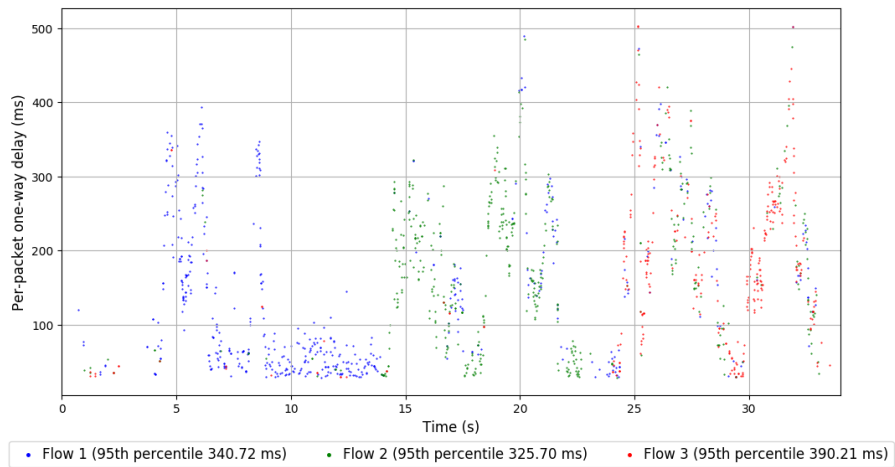
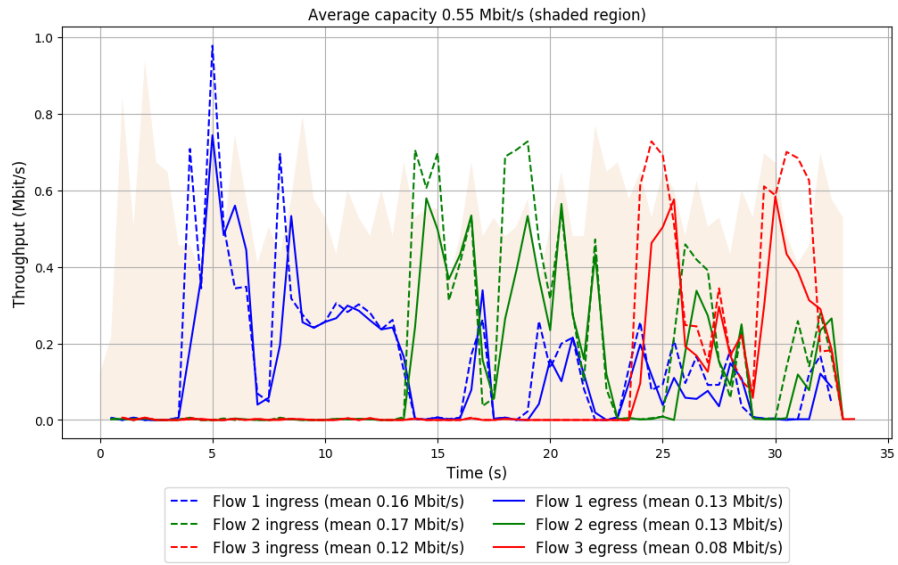
-- Flow 3:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 390.214 ms

Loss rate: 27.90%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-16 06:22:11

End at: 2018-02-16 06:22:41

Below is generated by plot.py at 2018-02-16 06:52:53

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.34 Mbit/s (61.7% utilization)

95th percentile per-packet one-way delay: 360.489 ms

Loss rate: 28.54%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 326.770 ms

Loss rate: 22.52%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 376.967 ms

Loss rate: 28.44%

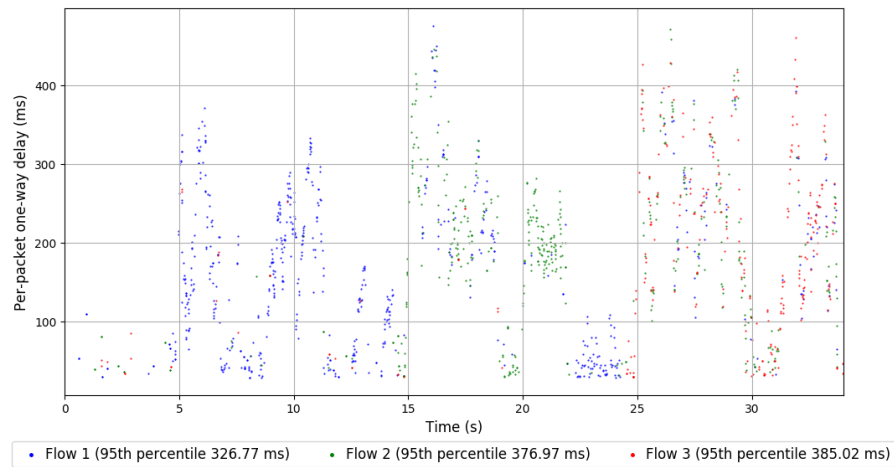
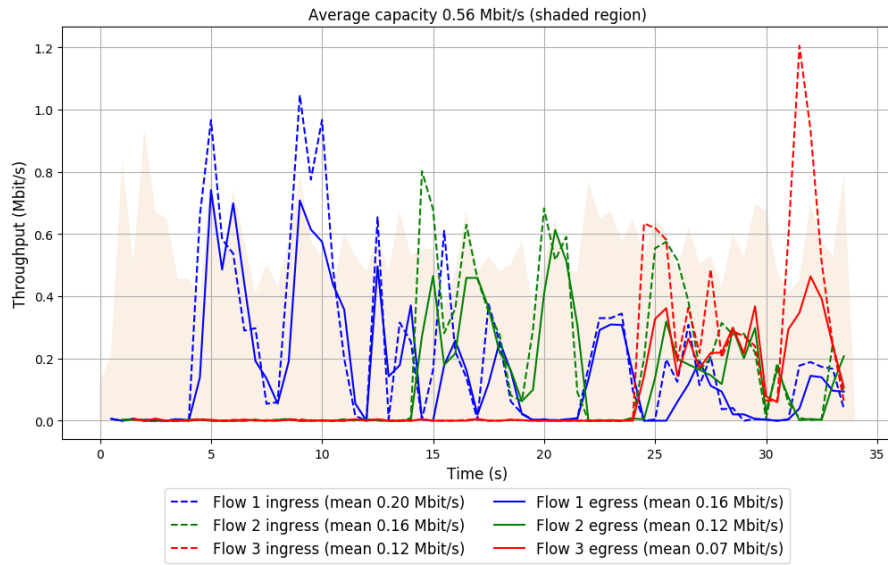
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 385.022 ms

Loss rate: 39.14%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 06:32:35

End at: 2018-02-16 06:33:05

Below is generated by plot.py at 2018-02-16 06:52:55

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.35 Mbit/s (63.0% utilization)

95th percentile per-packet one-way delay: 352.689 ms

Loss rate: 35.28%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 315.925 ms

Loss rate: 24.89%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 361.159 ms

Loss rate: 45.68%

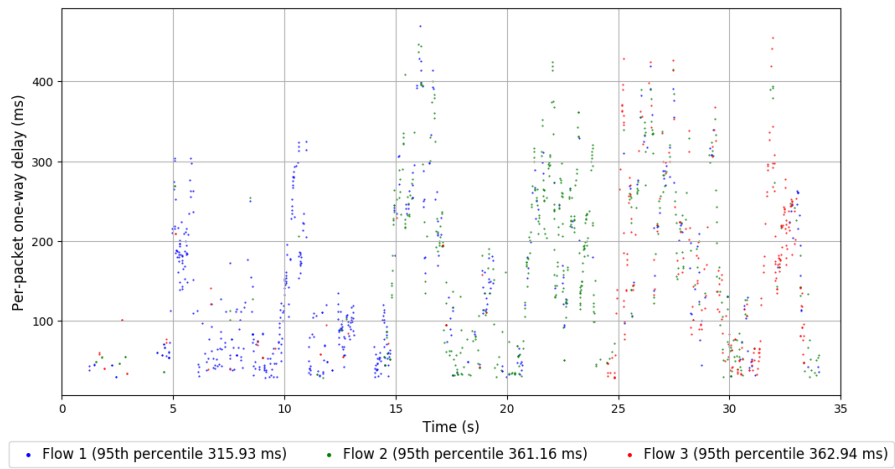
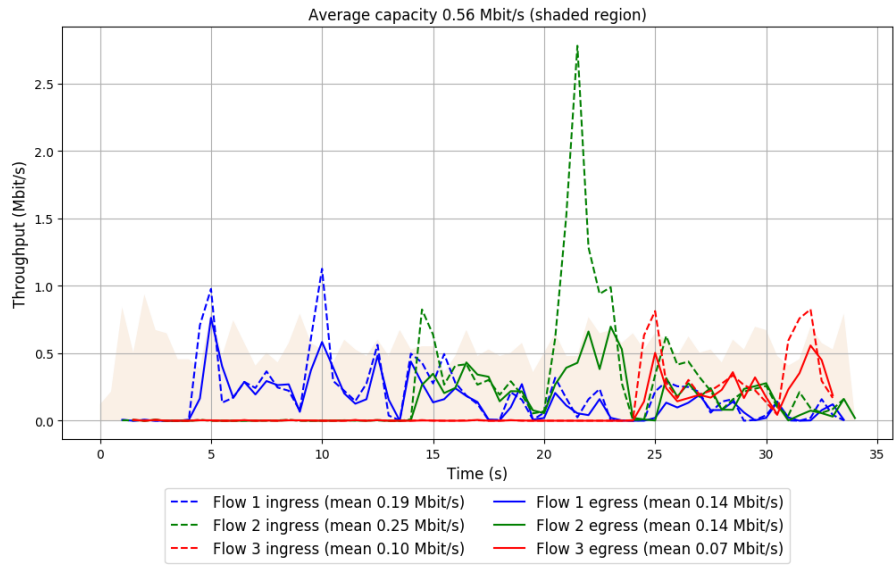
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 362.944 ms

Loss rate: 28.84%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 06:42:58

End at: 2018-02-16 06:43:28

Below is generated by plot.py at 2018-02-16 06:52:55

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.35 Mbit/s (63.0% utilization)

95th percentile per-packet one-way delay: 365.912 ms

Loss rate: 29.40%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 363.216 ms

Loss rate: 23.04%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 371.960 ms

Loss rate: 33.29%

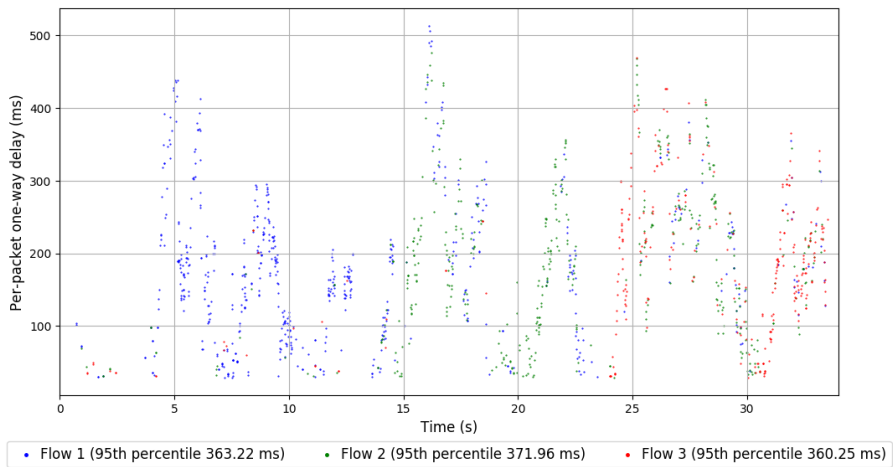
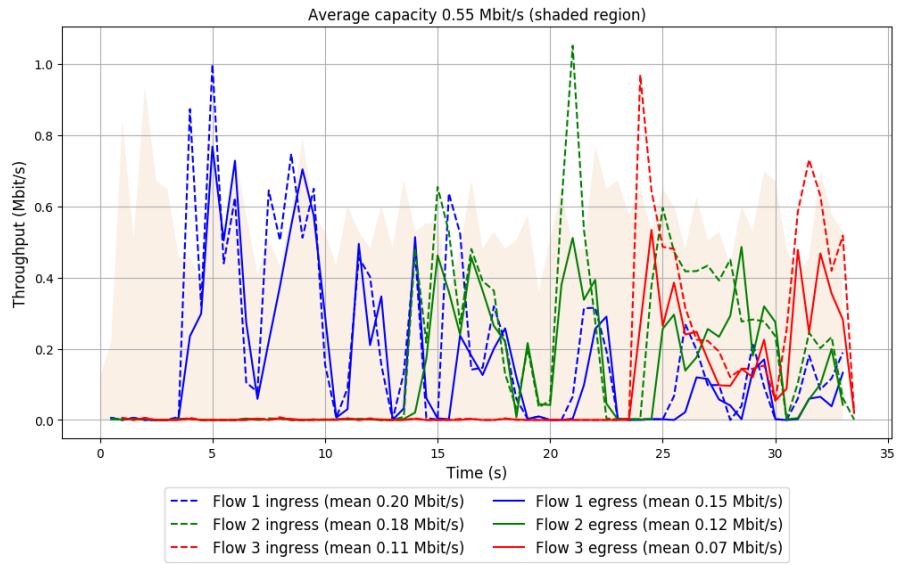
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 360.245 ms

Loss rate: 34.46%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-16 05:09:01

End at: 2018-02-16 05:09:31

Below is generated by plot.py at 2018-02-16 06:52:57

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (68.4% utilization)

95th percentile per-packet one-way delay: 217.313 ms

Loss rate: 6.56%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 210.526 ms

Loss rate: 4.94%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 224.394 ms

Loss rate: 7.23%

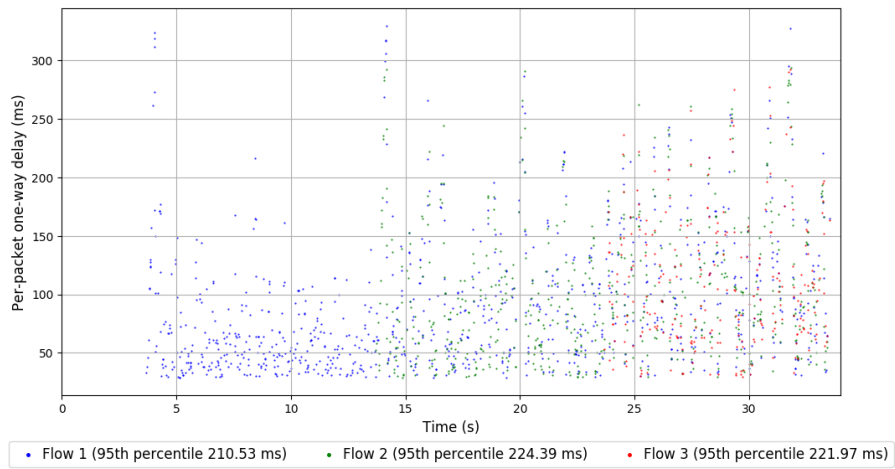
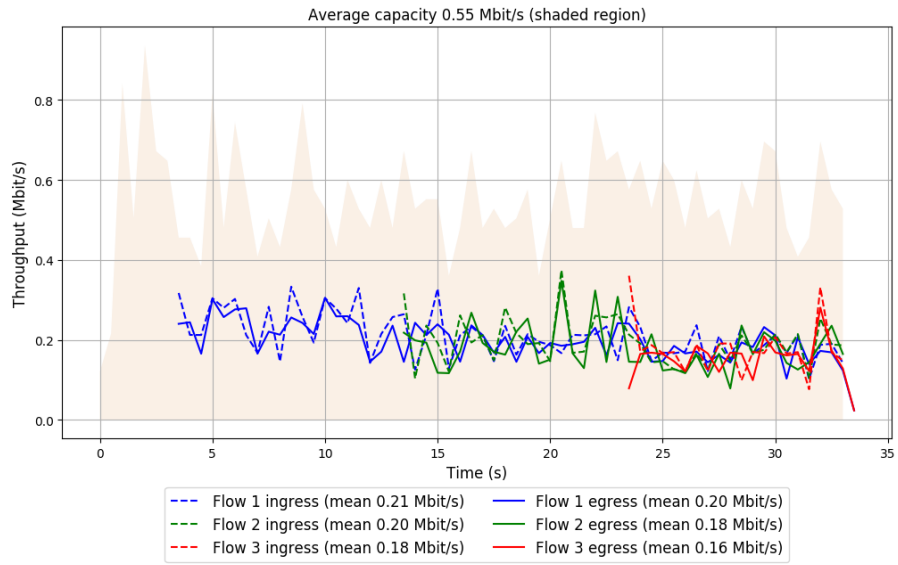
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 221.975 ms

Loss rate: 10.87%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-16 05:19:23

End at: 2018-02-16 05:19:53

Below is generated by plot.py at 2018-02-16 06:52:59

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (69.0% utilization)

95th percentile per-packet one-way delay: 215.009 ms

Loss rate: 7.05%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 200.376 ms

Loss rate: 6.77%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 215.490 ms

Loss rate: 4.91%

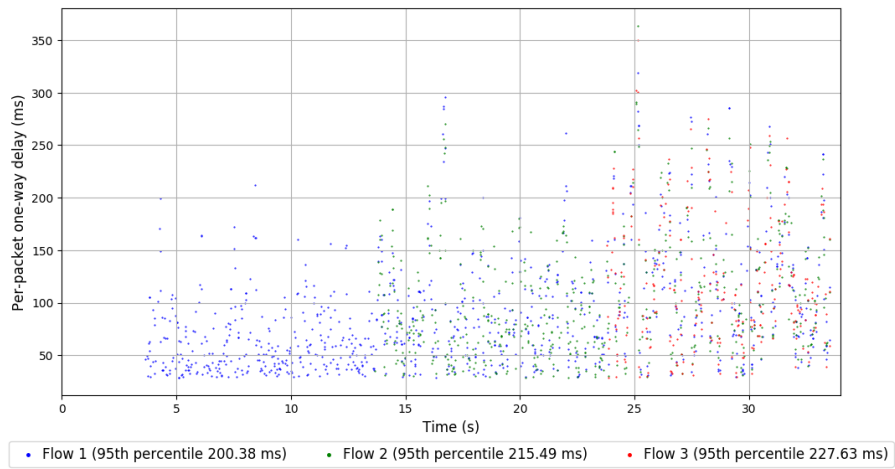
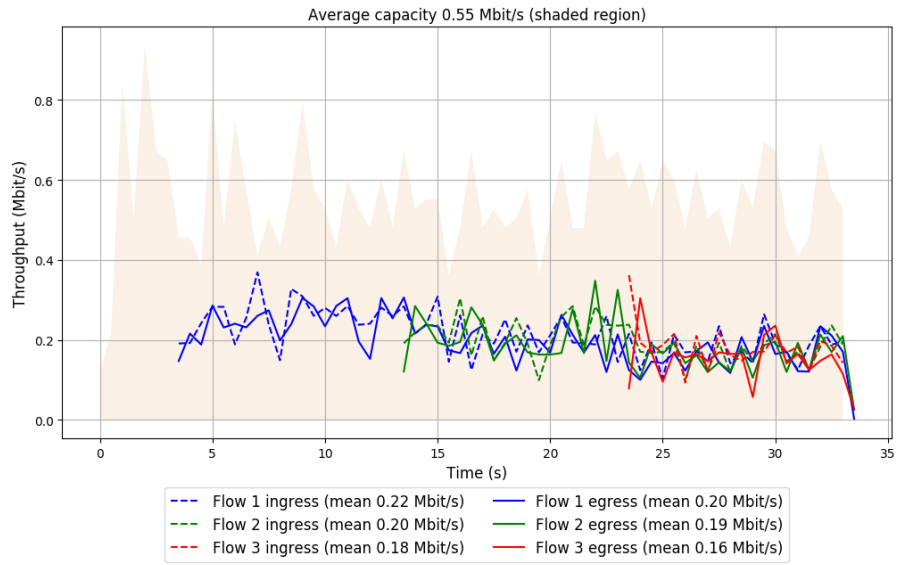
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 227.634 ms

Loss rate: 12.65%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-16 05:29:45

End at: 2018-02-16 05:30:15

Below is generated by plot.py at 2018-02-16 06:52:59

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (69.1% utilization)

95th percentile per-packet one-way delay: 216.239 ms

Loss rate: 6.22%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 209.015 ms

Loss rate: 5.42%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 218.399 ms

Loss rate: 6.84%

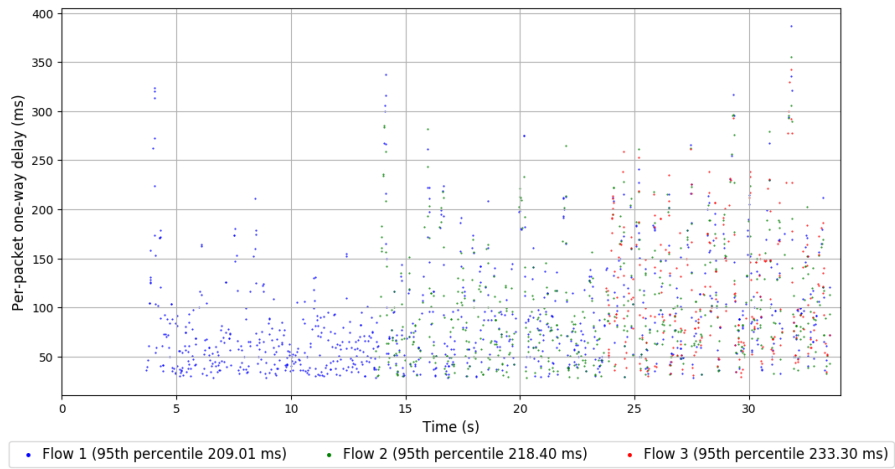
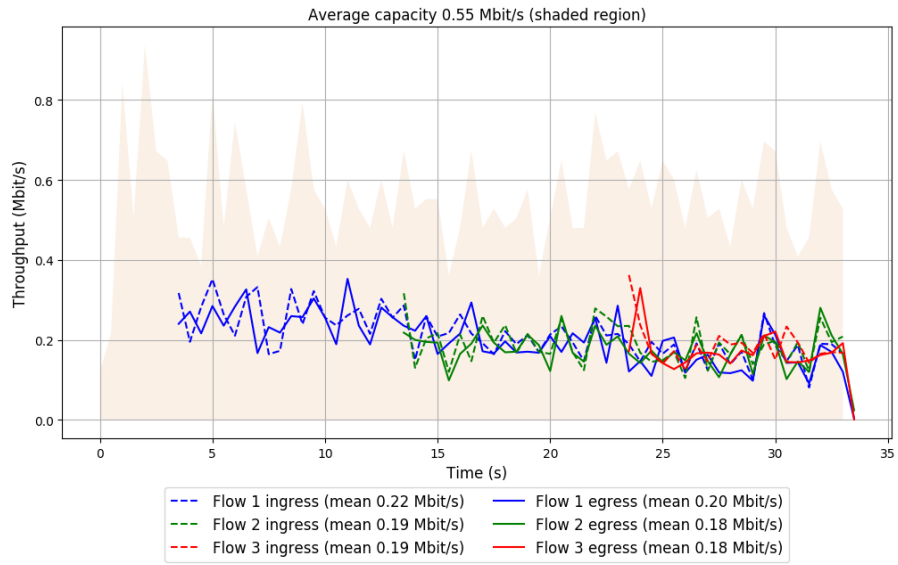
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 233.299 ms

Loss rate: 7.68%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-16 05:40:06

End at: 2018-02-16 05:40:36

Below is generated by plot.py at 2018-02-16 06:53:00

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (68.1% utilization)

95th percentile per-packet one-way delay: 226.804 ms

Loss rate: 7.51%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 217.141 ms

Loss rate: 5.67%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 231.792 ms

Loss rate: 7.90%

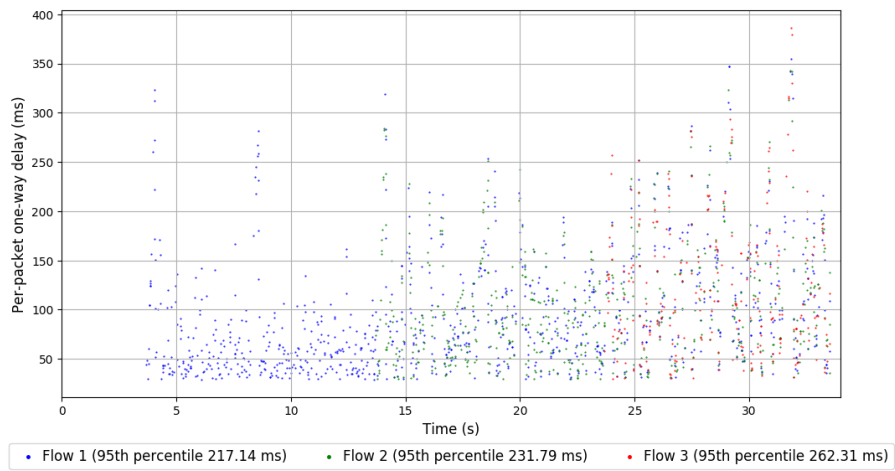
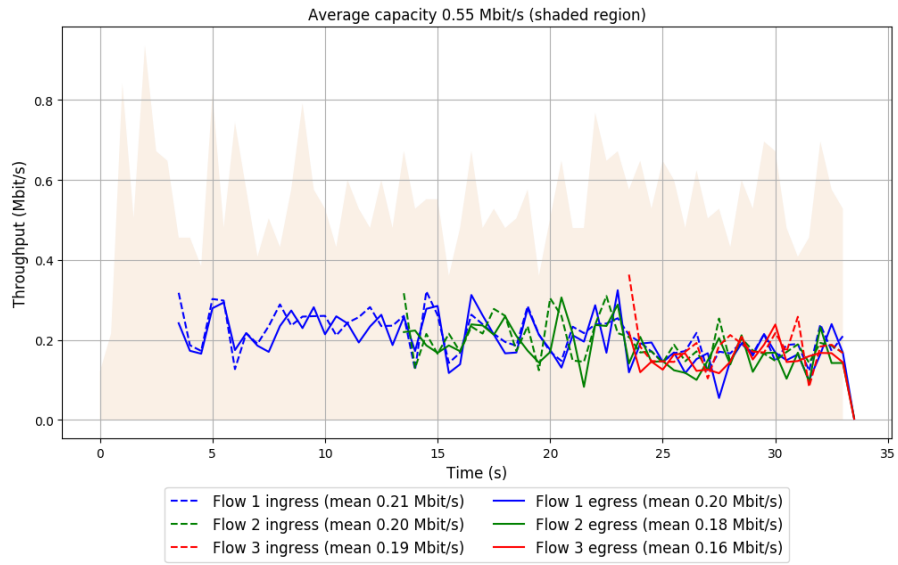
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 262.309 ms

Loss rate: 13.08%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-16 05:50:29

End at: 2018-02-16 05:50:59

Below is generated by plot.py at 2018-02-16 06:53:01

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.37 Mbit/s (67.5% utilization)

95th percentile per-packet one-way delay: 224.195 ms

Loss rate: 7.70%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 215.985 ms

Loss rate: 7.74%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 229.539 ms

Loss rate: 7.53%

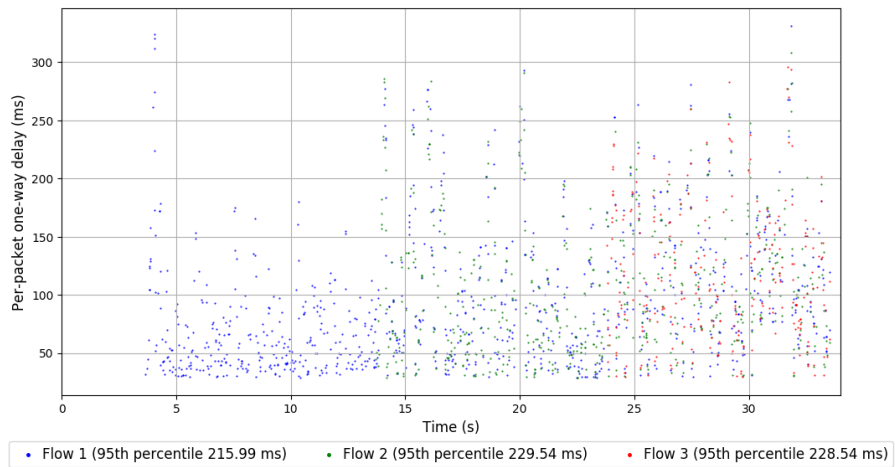
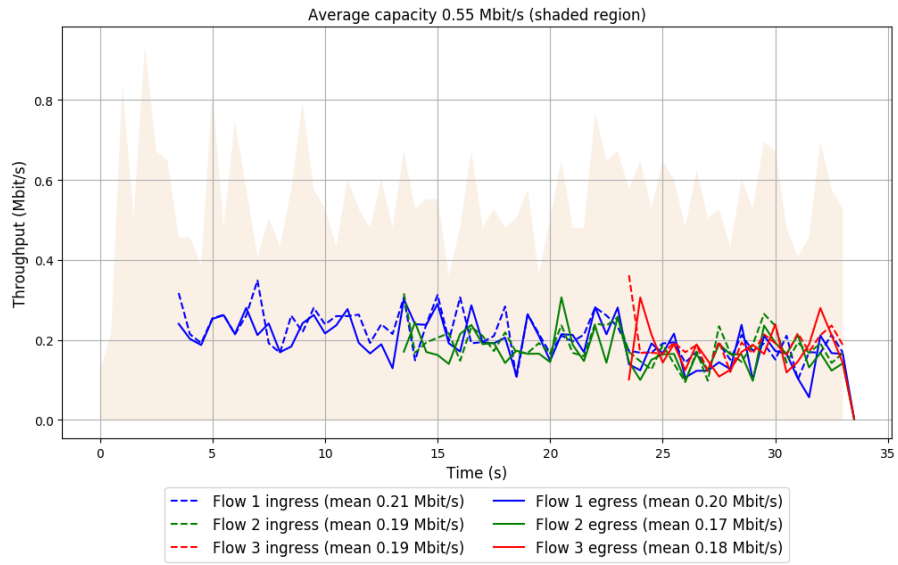
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 228.541 ms

Loss rate: 7.90%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-16 06:00:51

End at: 2018-02-16 06:01:21

Below is generated by plot.py at 2018-02-16 06:53:02

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.37 Mbit/s (66.8% utilization)

95th percentile per-packet one-way delay: 223.012 ms

Loss rate: 7.82%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 206.165 ms

Loss rate: 7.49%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 229.855 ms

Loss rate: 7.23%

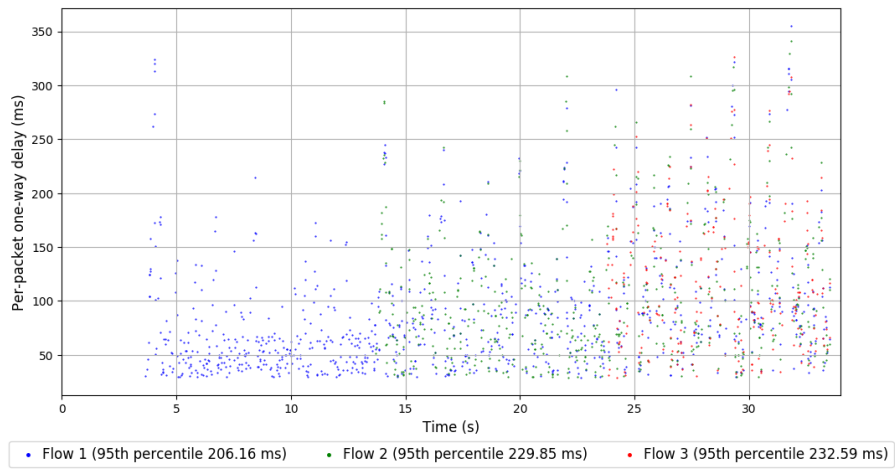
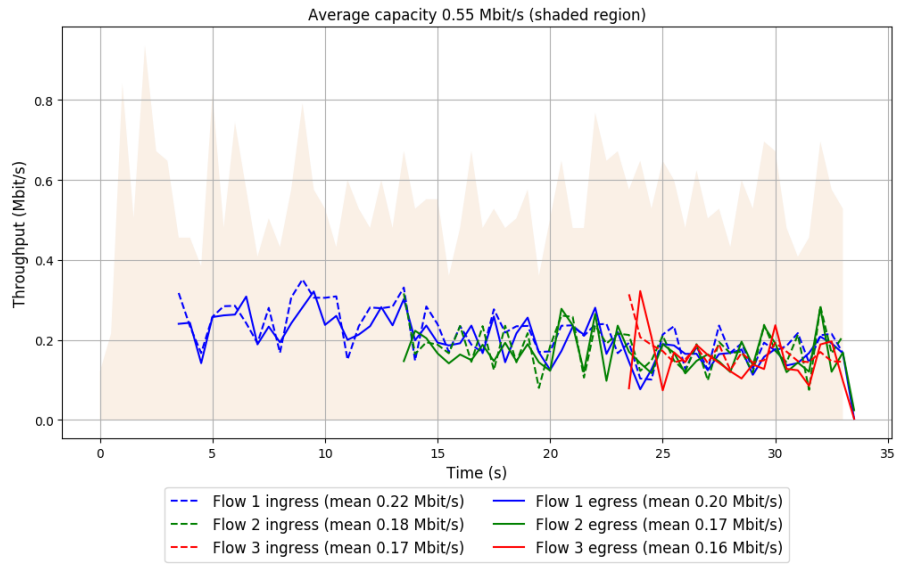
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 232.595 ms

Loss rate: 10.35%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-16 06:11:14

End at: 2018-02-16 06:11:44

Below is generated by plot.py at 2018-02-16 06:53:03

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.37 Mbit/s (67.8% utilization)

95th percentile per-packet one-way delay: 222.551 ms

Loss rate: 7.81%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 205.936 ms

Loss rate: 6.15%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 228.832 ms

Loss rate: 8.65%

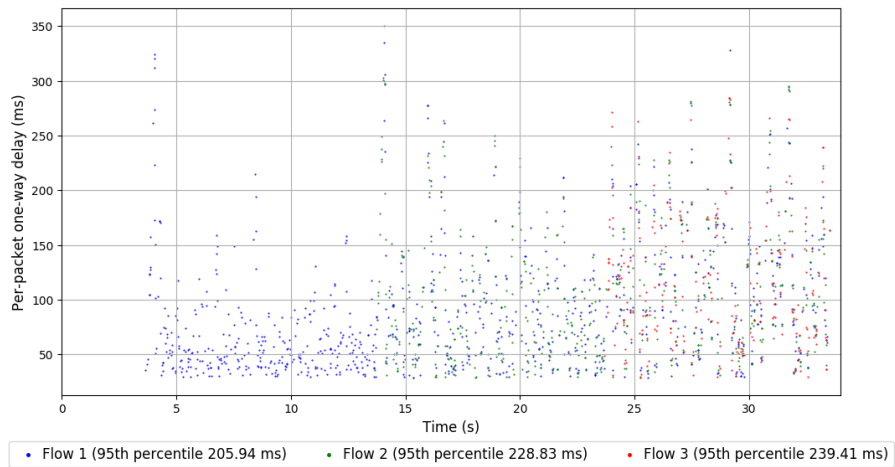
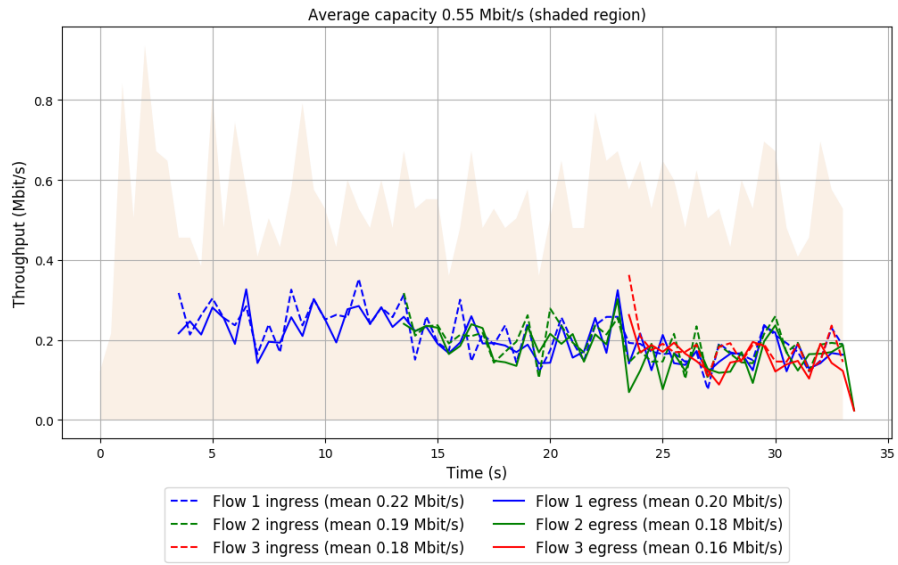
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 239.410 ms

Loss rate: 11.94%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-16 06:21:36

End at: 2018-02-16 06:22:06

Below is generated by plot.py at 2018-02-16 06:53:04

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (69.4% utilization)

95th percentile per-packet one-way delay: 223.027 ms

Loss rate: 7.40%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 208.170 ms

Loss rate: 5.28%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 229.916 ms

Loss rate: 7.97%

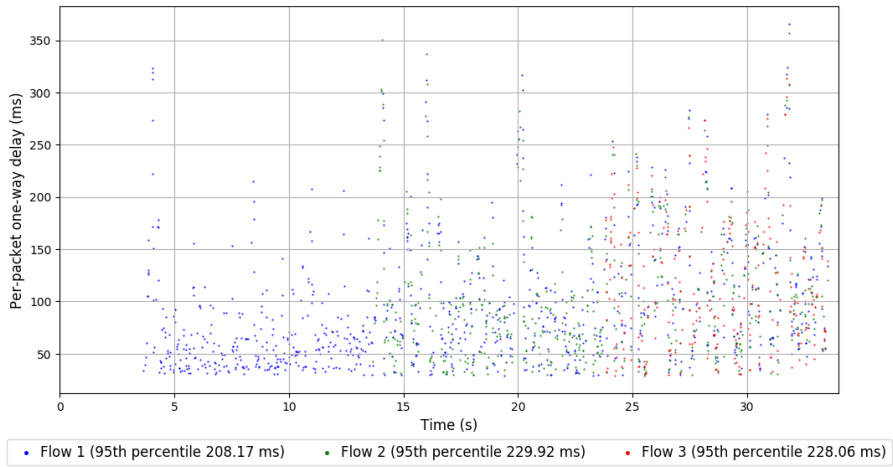
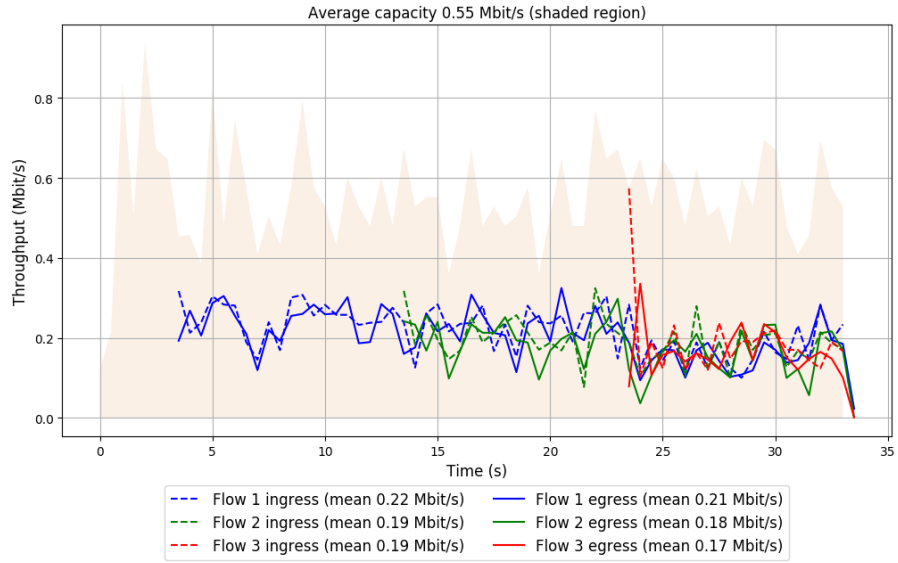
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 228.059 ms

Loss rate: 13.63%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 06:32:00

End at: 2018-02-16 06:32:30

Below is generated by plot.py at 2018-02-16 06:53:04

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (69.5% utilization)

95th percentile per-packet one-way delay: 219.383 ms

Loss rate: 6.67%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 205.629 ms

Loss rate: 6.87%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 223.864 ms

Loss rate: 5.70%

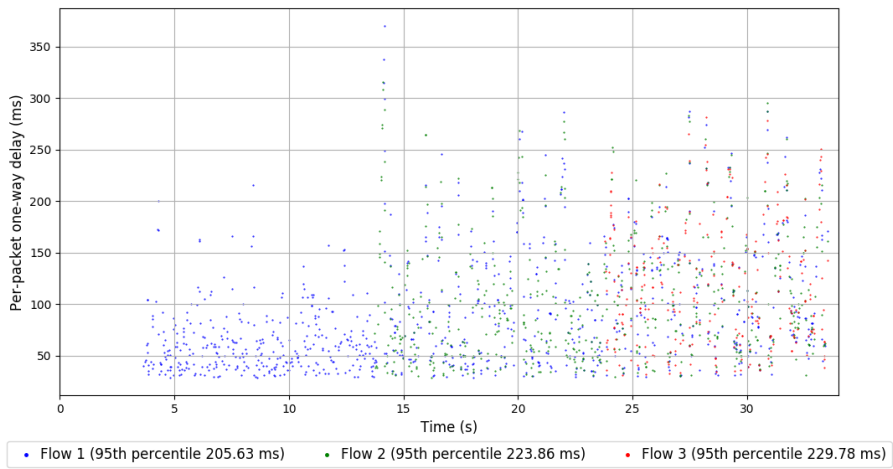
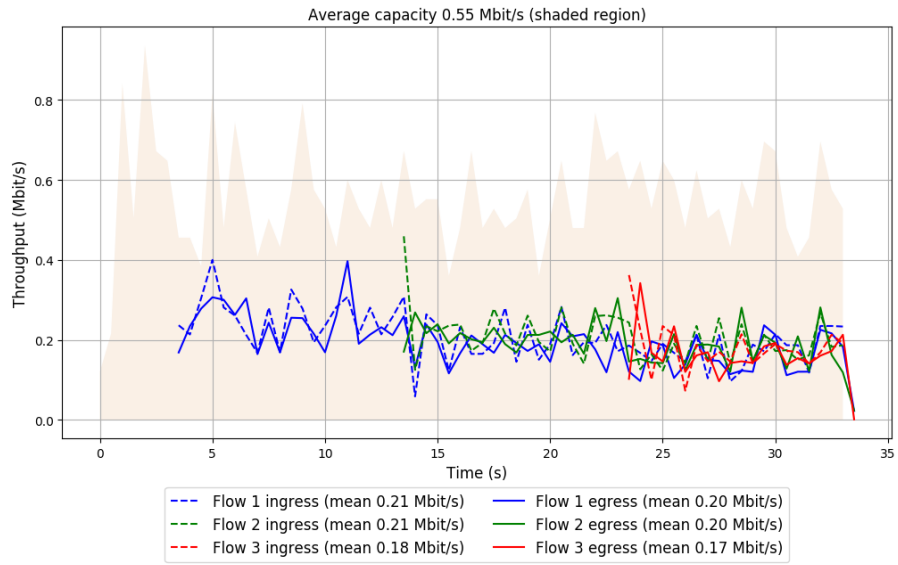
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 229.775 ms

Loss rate: 8.22%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 06:42:24

End at: 2018-02-16 06:42:54

Below is generated by plot.py at 2018-02-16 06:53:05

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.38 Mbit/s (69.7% utilization)

95th percentile per-packet one-way delay: 217.853 ms

Loss rate: 6.85%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 203.244 ms

Loss rate: 5.21%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 224.617 ms

Loss rate: 7.06%

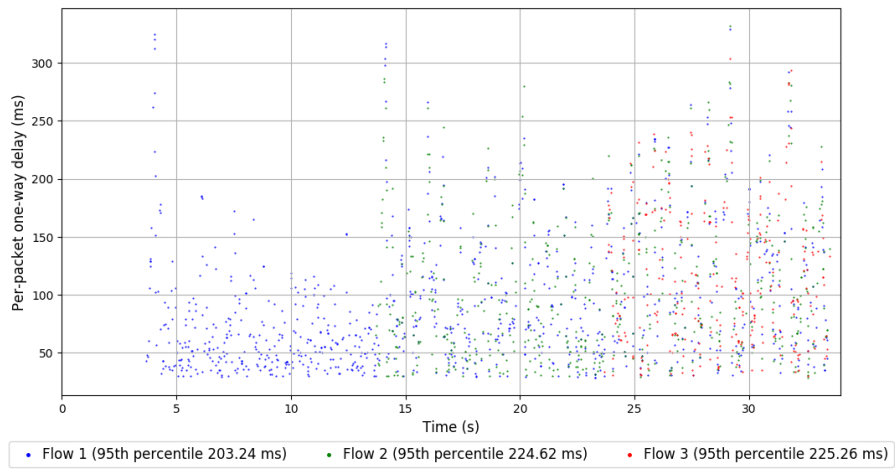
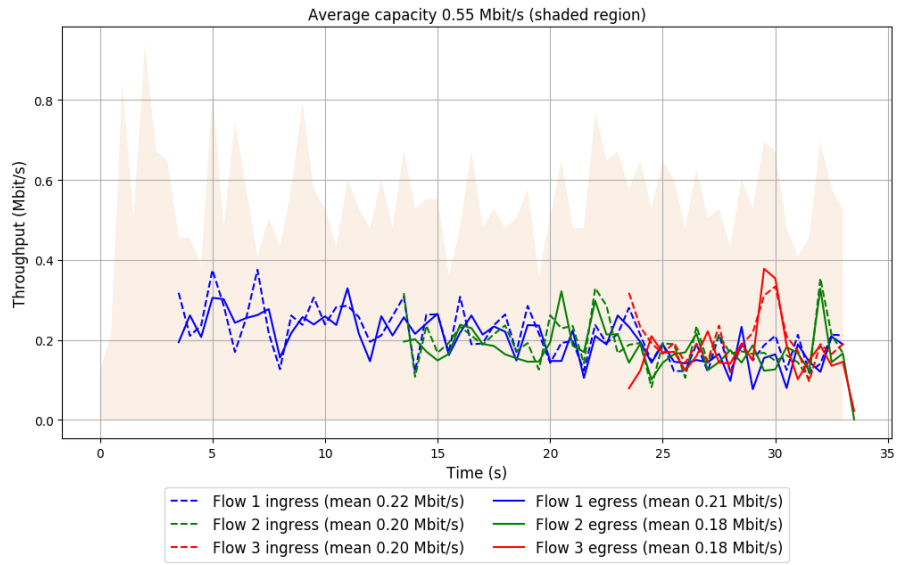
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 225.262 ms

Loss rate: 11.69%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 05:08:27

End at: 2018-02-16 05:08:57

Below is generated by plot.py at 2018-02-16 06:53:10

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 322.358 ms

Loss rate: 82.03%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 323.764 ms

Loss rate: 72.20%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 304.107 ms

Loss rate: 85.67%

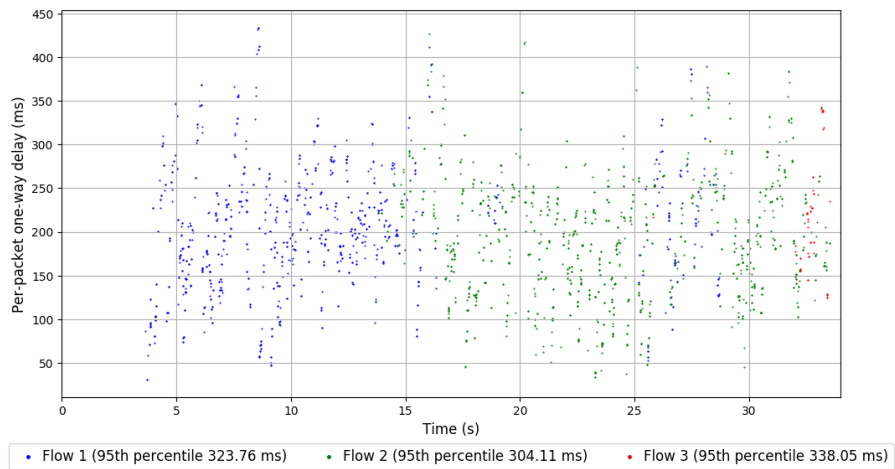
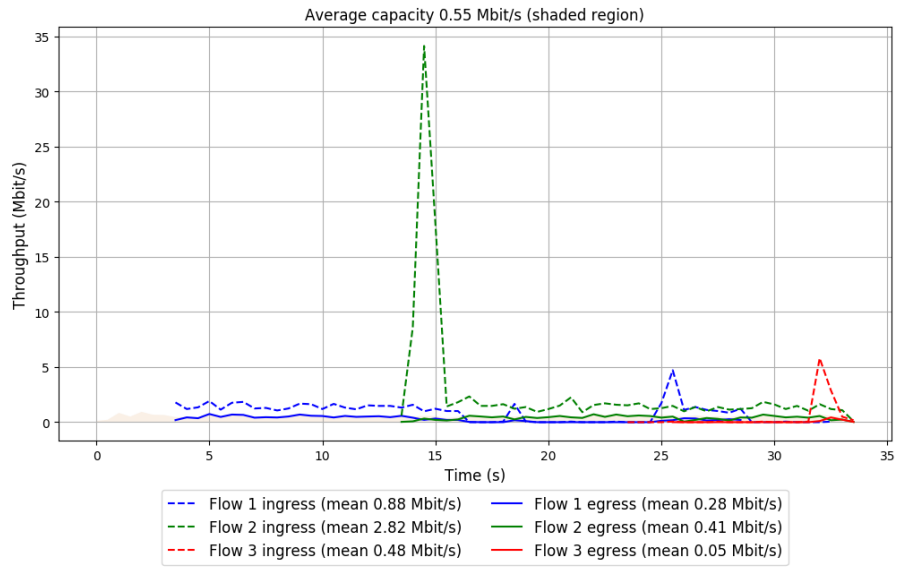
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 338.046 ms

Loss rate: 91.81%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 05:18:48

End at: 2018-02-16 05:19:18

Below is generated by plot.py at 2018-02-16 06:53:10

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.2% utilization)

95th percentile per-packet one-way delay: 322.524 ms

Loss rate: 73.32%

-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 314.687 ms

Loss rate: 67.80%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 345.176 ms

Loss rate: 87.08%

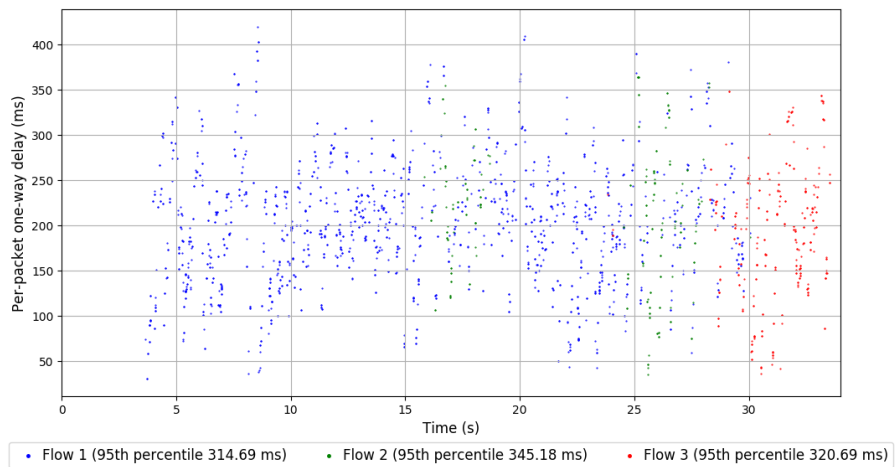
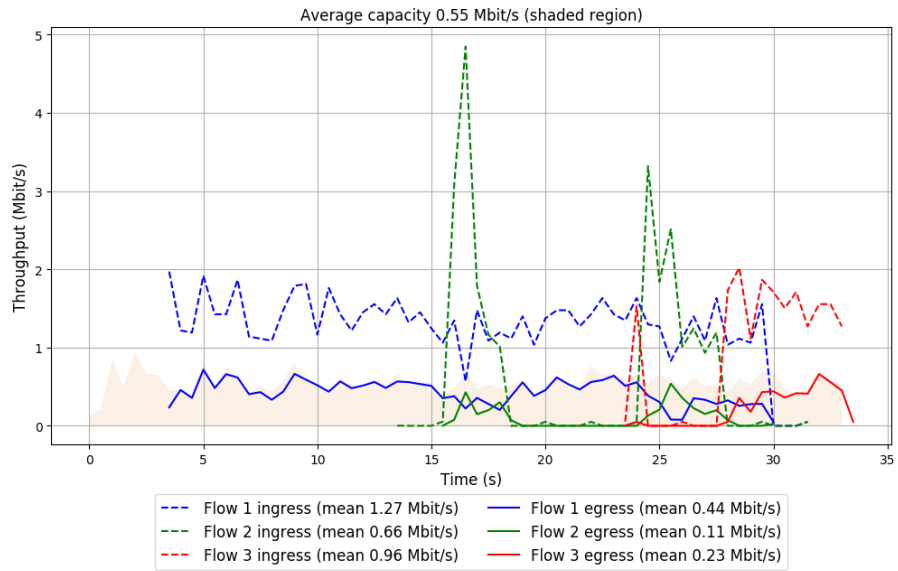
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 320.691 ms

Loss rate: 76.67%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 05:29:10

End at: 2018-02-16 05:29:40

Below is generated by plot.py at 2018-02-16 06:53:13

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.48 Mbit/s (87.7% utilization)

95th percentile per-packet one-way delay: 321.365 ms

Loss rate: 82.47%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 308.191 ms

Loss rate: 70.74%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 327.806 ms

Loss rate: 91.37%

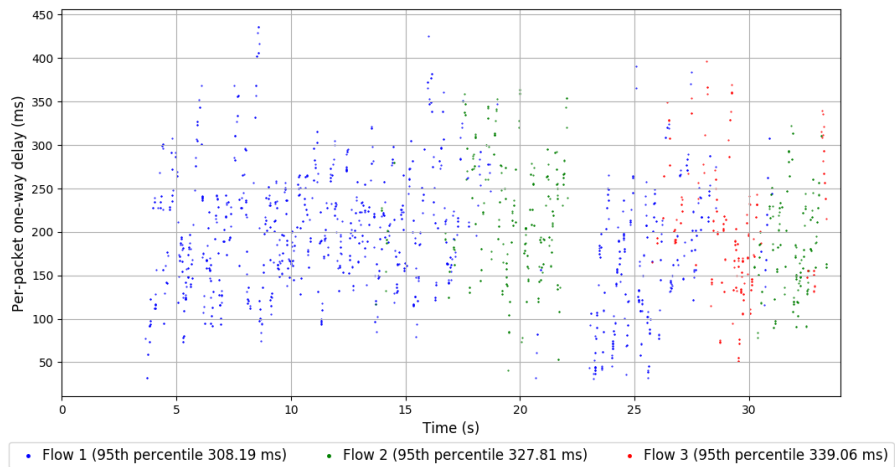
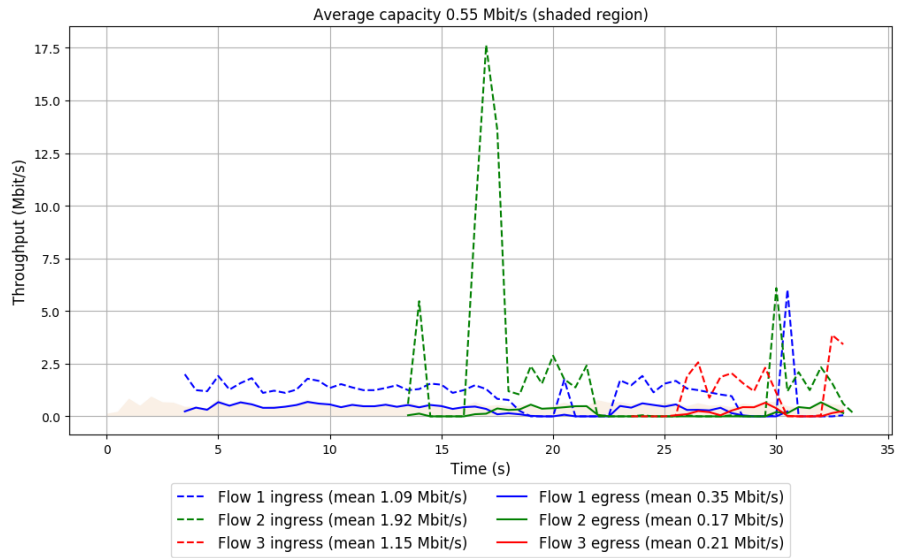
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 339.061 ms

Loss rate: 85.72%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 05:39:32

End at: 2018-02-16 05:40:02

Below is generated by plot.py at 2018-02-16 06:53:13

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.2% utilization)

95th percentile per-packet one-way delay: 321.777 ms

Loss rate: 81.37%

-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 320.822 ms

Loss rate: 64.52%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 395.275 ms

Loss rate: 98.28%

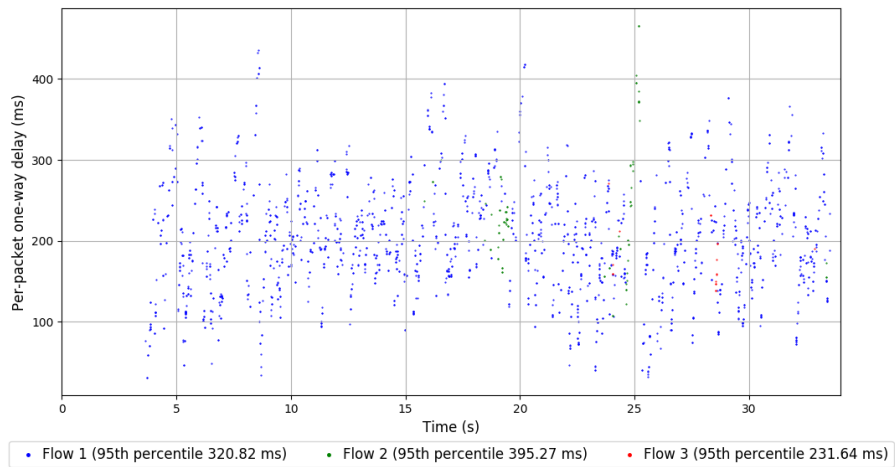
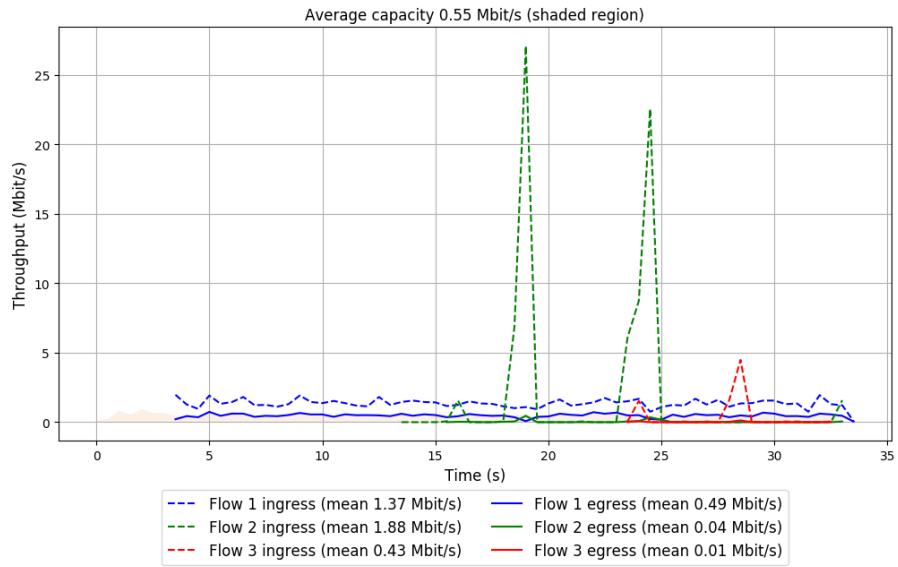
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 231.644 ms

Loss rate: 96.73%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 05:49:54

End at: 2018-02-16 05:50:24

Below is generated by plot.py at 2018-02-16 06:53:18

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (77.7% utilization)

95th percentile per-packet one-way delay: 306.497 ms

Loss rate: 89.25%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 300.119 ms

Loss rate: 73.51%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 322.006 ms

Loss rate: 95.97%

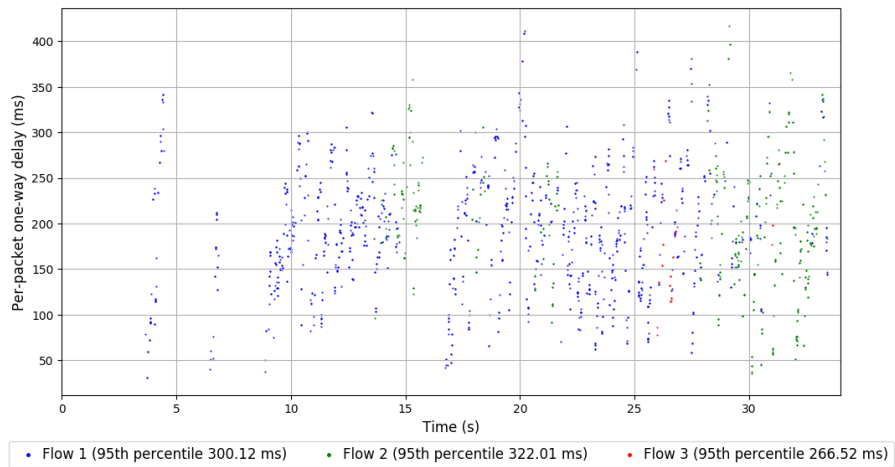
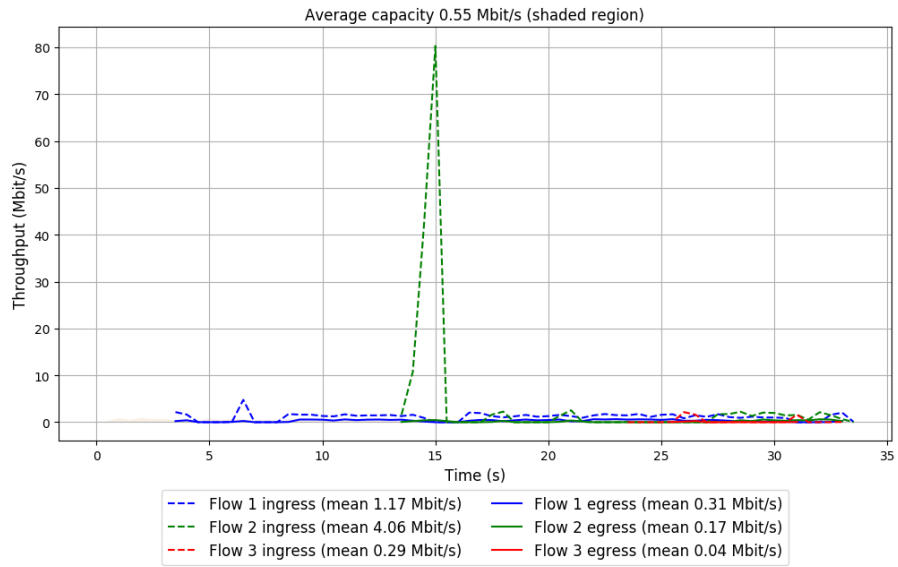
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 266.523 ms

Loss rate: 91.63%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 06:00:17

End at: 2018-02-16 06:00:47

Below is generated by plot.py at 2018-02-16 06:53:18

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.6% utilization)

95th percentile per-packet one-way delay: 321.639 ms

Loss rate: 69.49%

-- Flow 1:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 321.489 ms

Loss rate: 65.39%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 287.366 ms

Loss rate: 92.42%

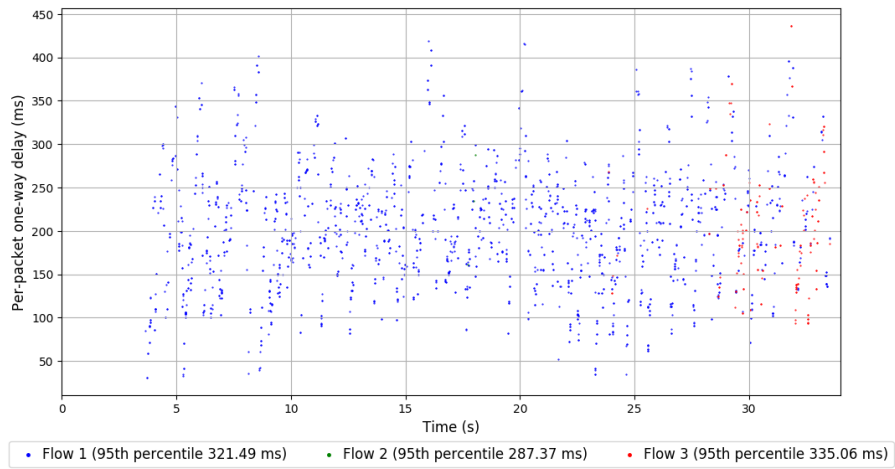
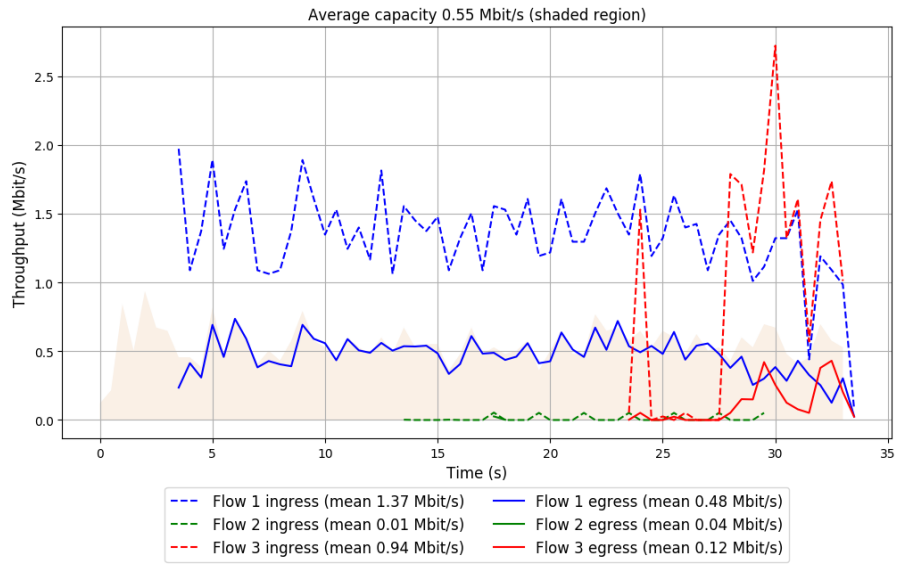
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 335.059 ms

Loss rate: 87.11%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-16 06:10:40

End at: 2018-02-16 06:11:10

Below is generated by plot.py at 2018-02-16 06:53:18

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (92.2% utilization)

95th percentile per-packet one-way delay: 309.072 ms

Loss rate: 75.42%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 305.986 ms

Loss rate: 74.41%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 312.028 ms

Loss rate: 76.42%

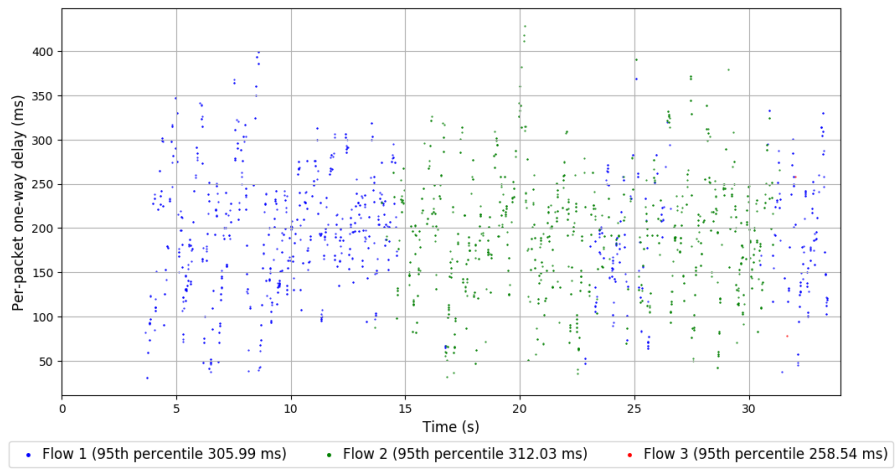
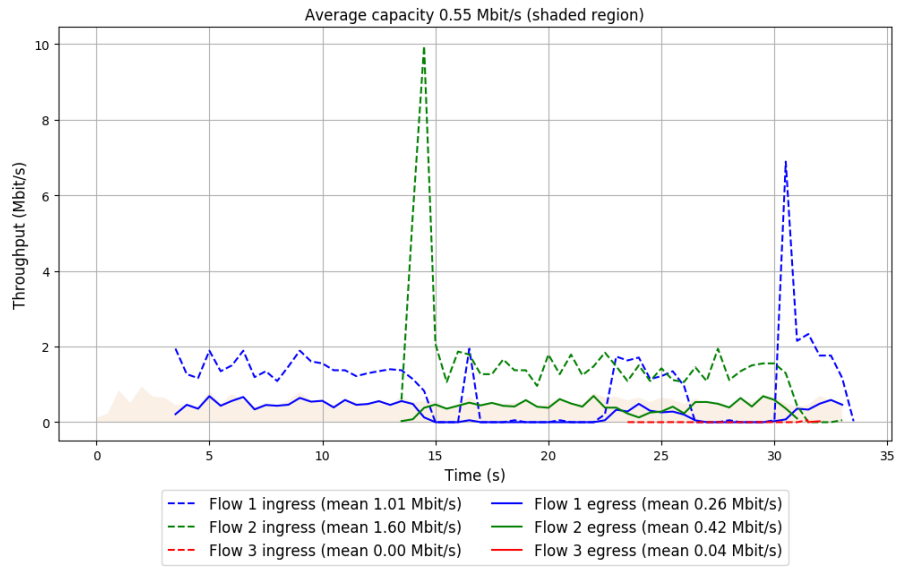
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 258.543 ms

Loss rate: 58.14%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 06:21:01

End at: 2018-02-16 06:21:31

Below is generated by plot.py at 2018-02-16 06:53:18

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.49 Mbit/s (88.7% utilization)

95th percentile per-packet one-way delay: 325.690 ms

Loss rate: 73.35%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 323.051 ms

Loss rate: 70.20%

-- Flow 2:

Average throughput: 0.37 Mbit/s

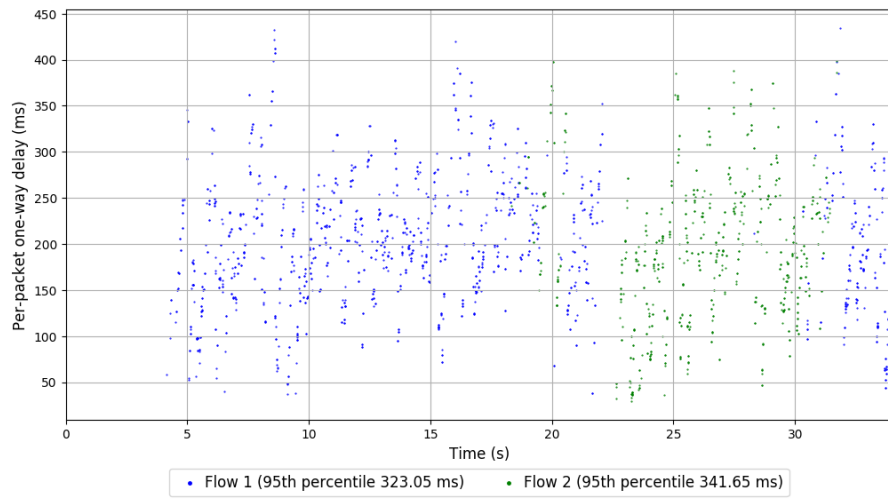
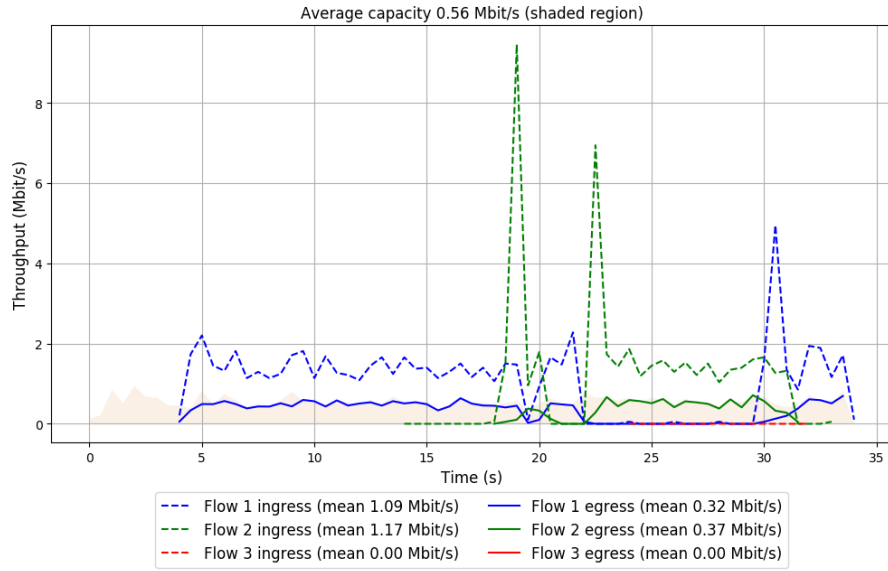
95th percentile per-packet one-way delay: 341.654 ms

Loss rate: 77.87%

-- Flow 3:

Average throughput: 0.00 Mbit/s

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 06:31:26

End at: 2018-02-16 06:31:56

Below is generated by plot.py at 2018-02-16 06:53:21

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.4% utilization)

95th percentile per-packet one-way delay: 323.004 ms

Loss rate: 81.08%

-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 325.535 ms

Loss rate: 64.60%

-- Flow 2:

Average throughput: 0.03 Mbit/s

95th percentile per-packet one-way delay: 282.508 ms

Loss rate: 98.48%

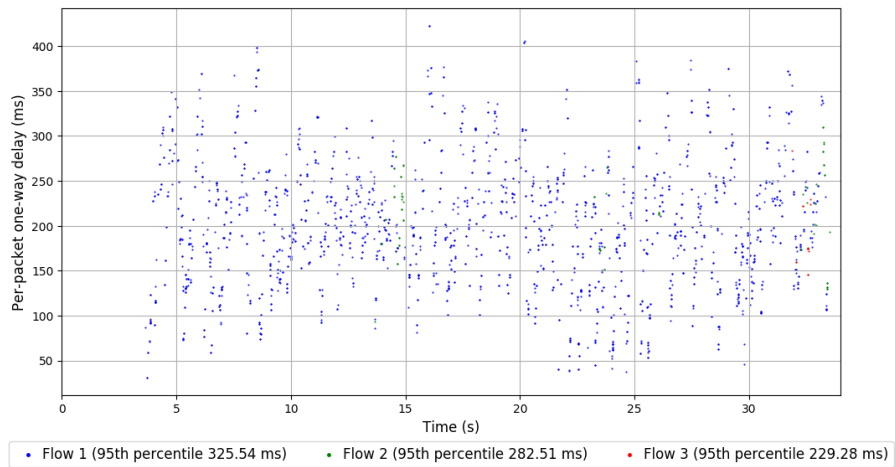
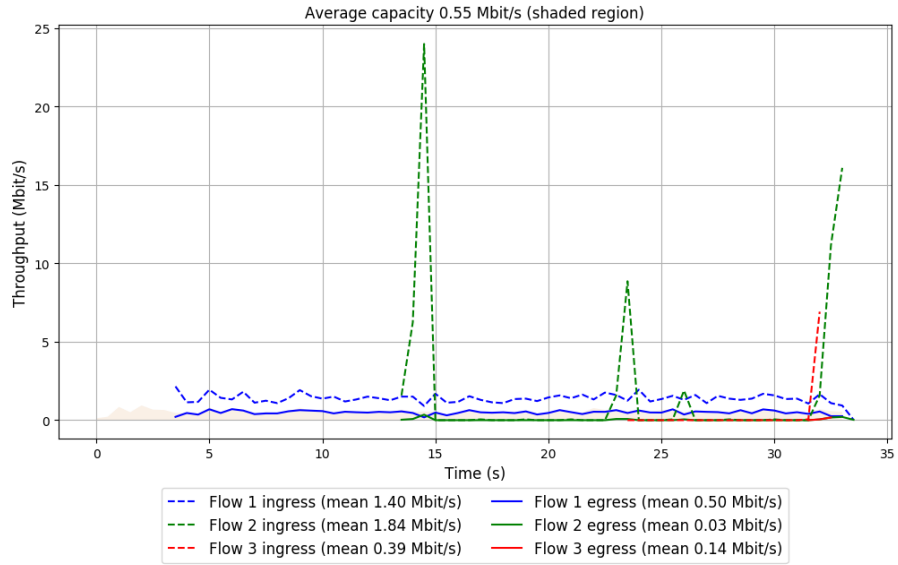
-- Flow 3:

Average throughput: 0.14 Mbit/s

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

Loss rate: 96.74%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 06:41:49

End at: 2018-02-16 06:42:19

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (88.7% utilization)

95th percentile per-packet one-way delay: 331.828 ms

Loss rate: 90.14%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 337.131 ms

Loss rate: 87.21%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 320.566 ms

Loss rate: 92.84%

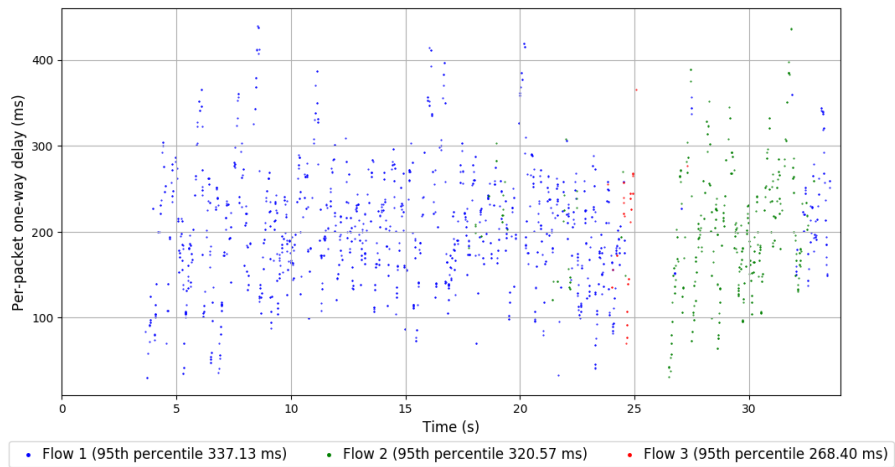
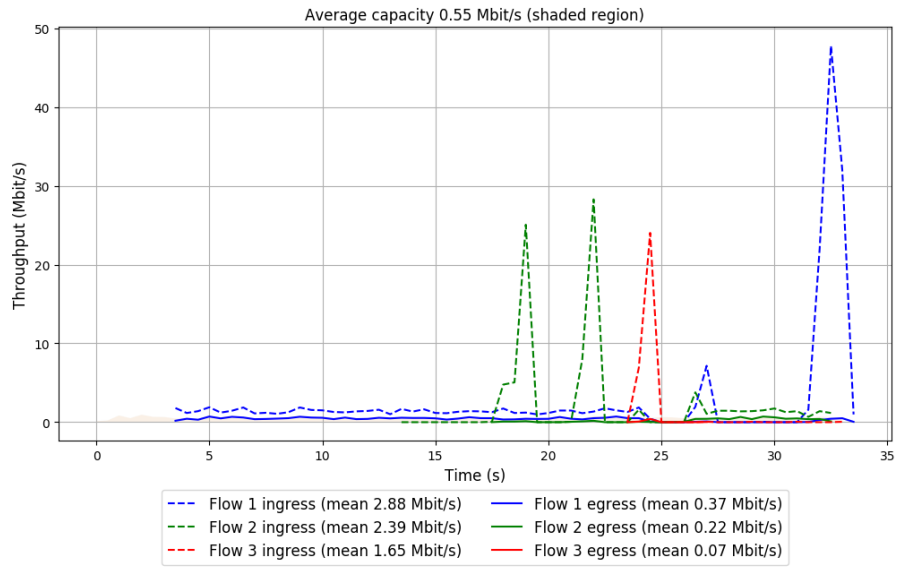
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 268.397 ms

Loss rate: 98.35%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 05:14:13

End at: 2018-02-16 05:14:43

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (83.0% utilization)

95th percentile per-packet one-way delay: 283.279 ms

Loss rate: 5.48%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 262.282 ms

Loss rate: 4.61%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 295.716 ms

Loss rate: 5.70%

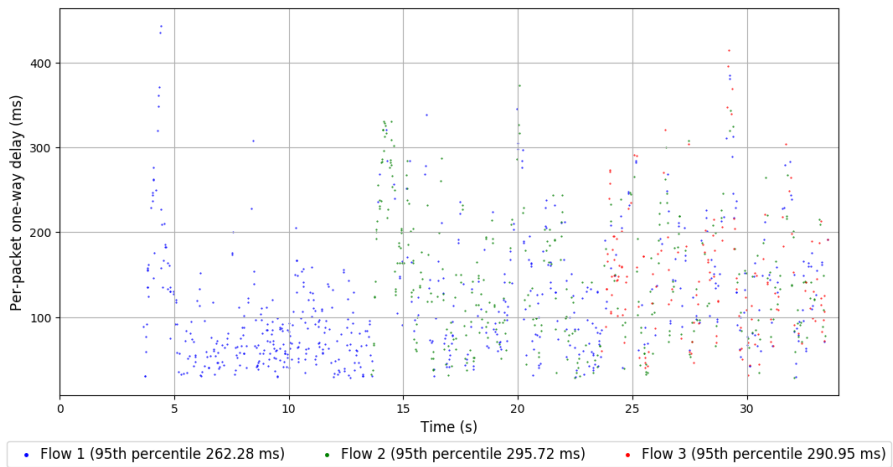
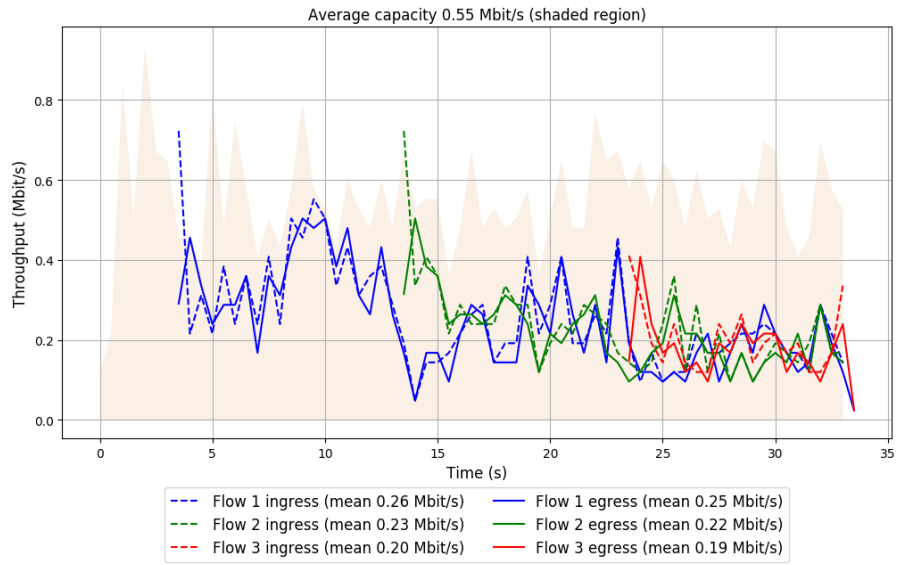
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 290.948 ms

Loss rate: 8.33%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 05:24:35

End at: 2018-02-16 05:25:05

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.45 Mbit/s (81.5% utilization)

95th percentile per-packet one-way delay: 316.020 ms

Loss rate: 7.02%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 316.998 ms

Loss rate: 6.10%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 320.636 ms

Loss rate: 8.66%

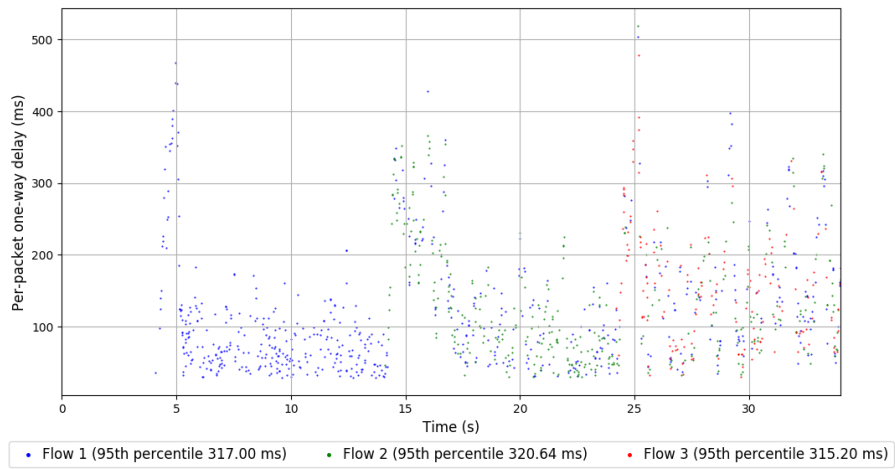
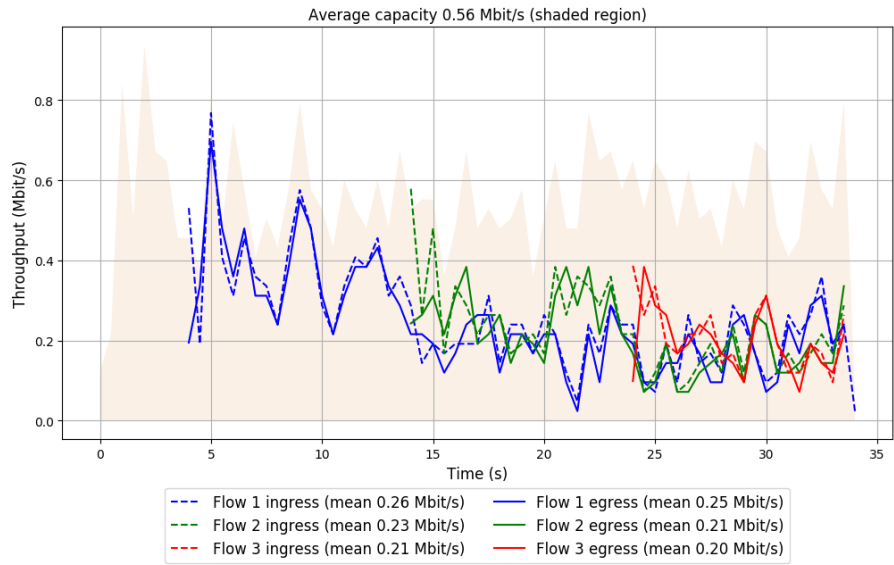
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 315.201 ms

Loss rate: 6.89%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 05:34:55

End at: 2018-02-16 05:35:25

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (78.1% utilization)

95th percentile per-packet one-way delay: 296.343 ms

Loss rate: 7.10%

-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 277.647 ms

Loss rate: 6.84%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 295.344 ms

Loss rate: 5.25%

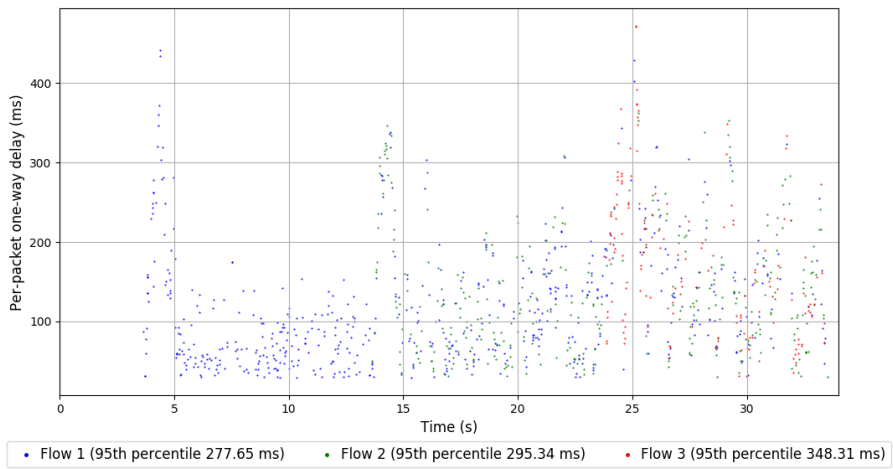
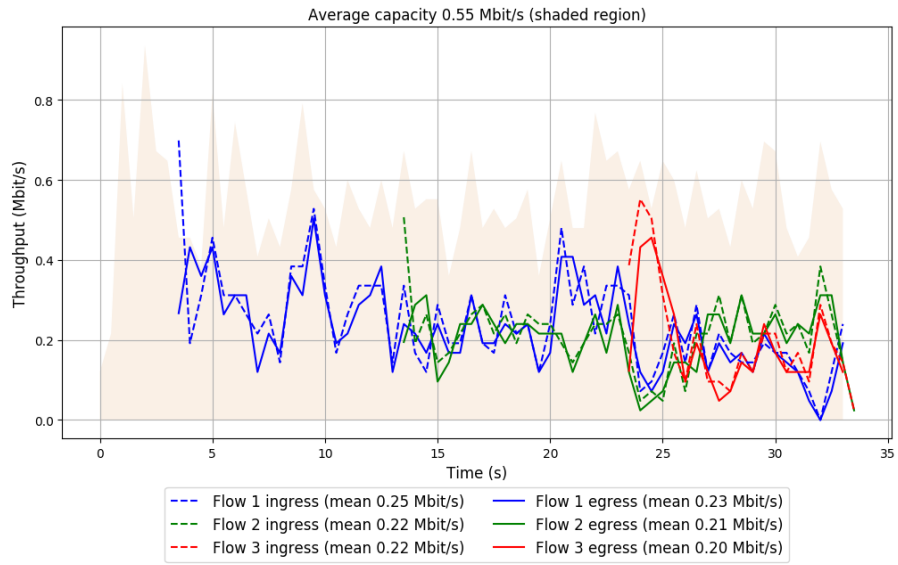
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 348.313 ms

Loss rate: 11.79%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 05:45:18

End at: 2018-02-16 05:45:48

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (83.5% utilization)

95th percentile per-packet one-way delay: 313.844 ms

Loss rate: 5.90%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 333.254 ms

Loss rate: 4.68%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 290.010 ms

Loss rate: 7.65%

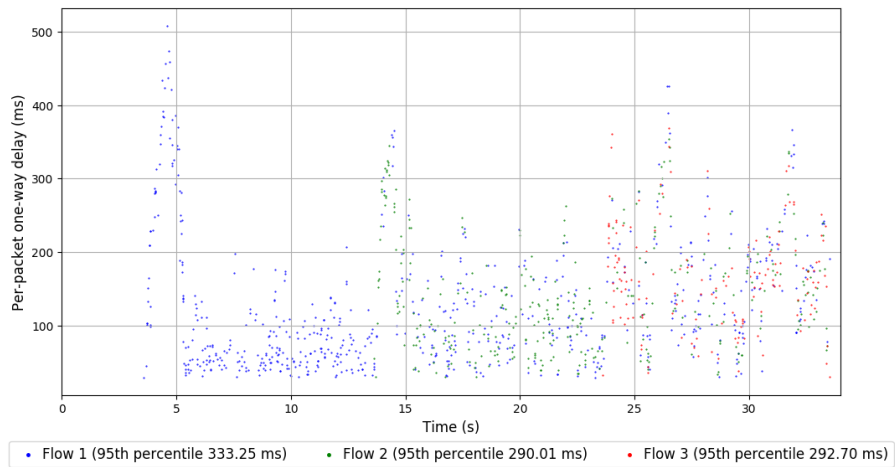
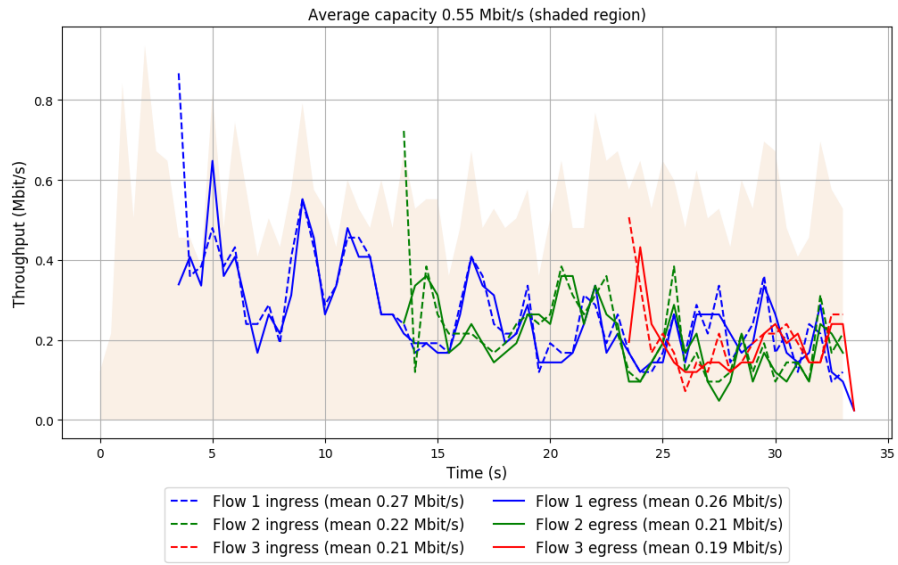
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 292.703 ms

Loss rate: 7.05%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 05:55:40

End at: 2018-02-16 05:56:10

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (83.3% utilization)

95th percentile per-packet one-way delay: 260.244 ms

Loss rate: 5.54%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 224.666 ms

Loss rate: 4.29%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 283.477 ms

Loss rate: 6.54%

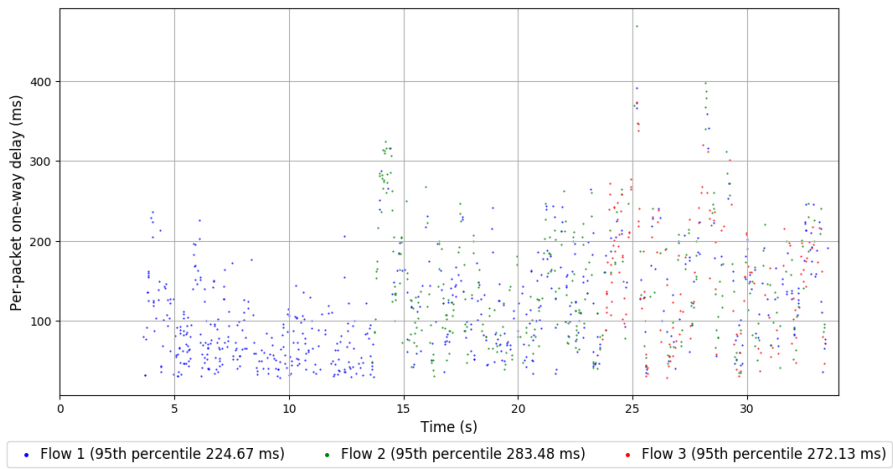
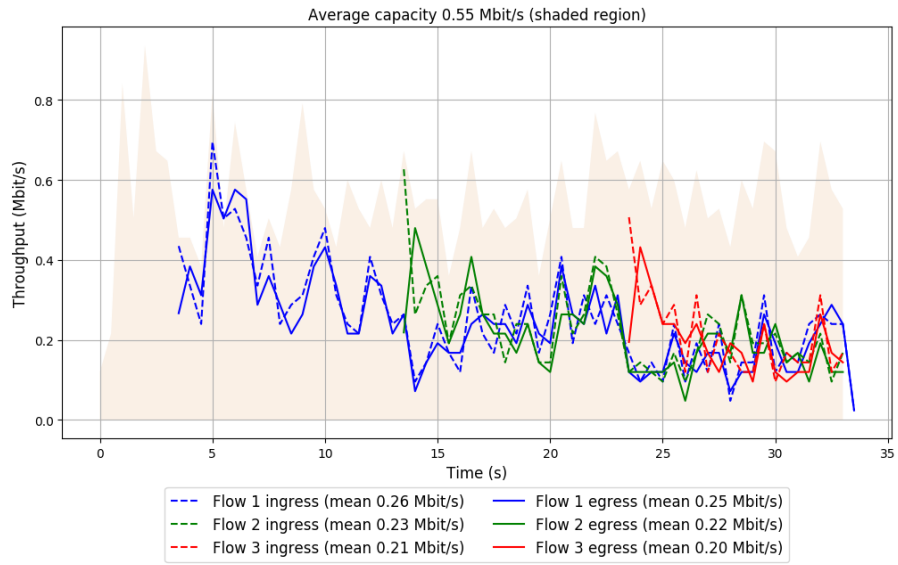
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 272.135 ms

Loss rate: 7.95%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-16 06:06:03

End at: 2018-02-16 06:06:33

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (83.6% utilization)

95th percentile per-packet one-way delay: 275.412 ms

Loss rate: 4.97%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 260.886 ms

Loss rate: 4.34%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 291.149 ms

Loss rate: 4.97%

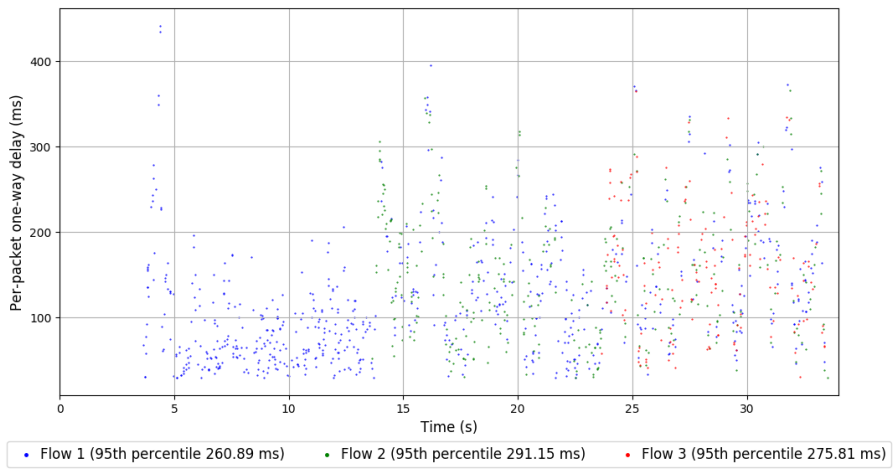
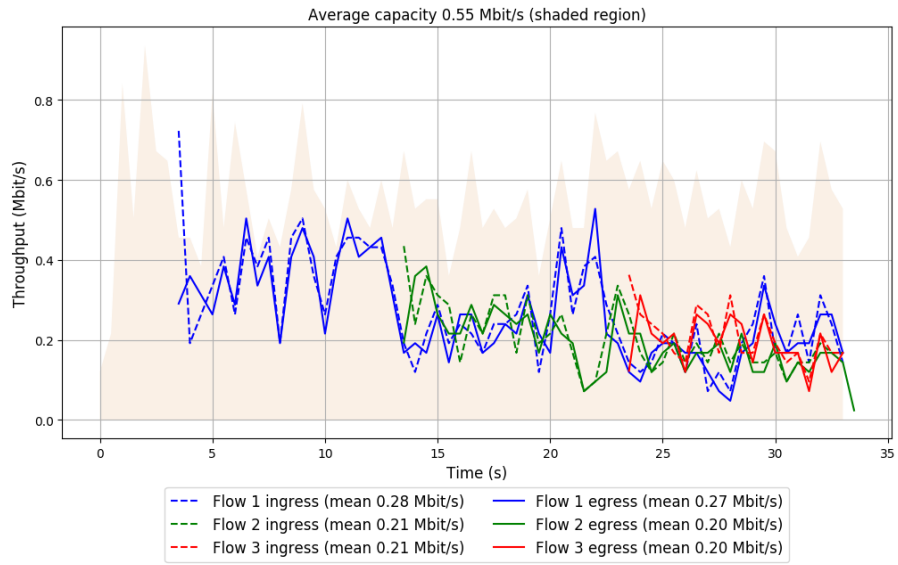
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 275.812 ms

Loss rate: 7.47%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-16 06:16:25

End at: 2018-02-16 06:16:55

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (83.4% utilization)

95th percentile per-packet one-way delay: 308.932 ms

Loss rate: 7.08%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 287.060 ms

Loss rate: 5.89%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 295.806 ms

Loss rate: 9.97%

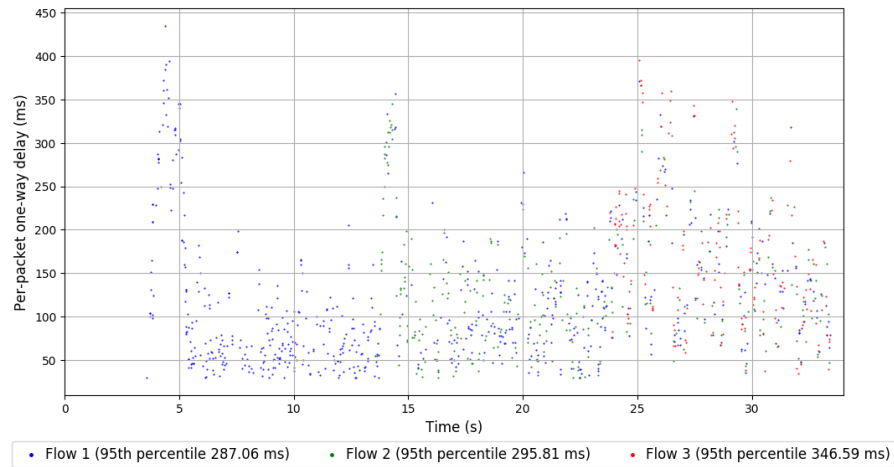
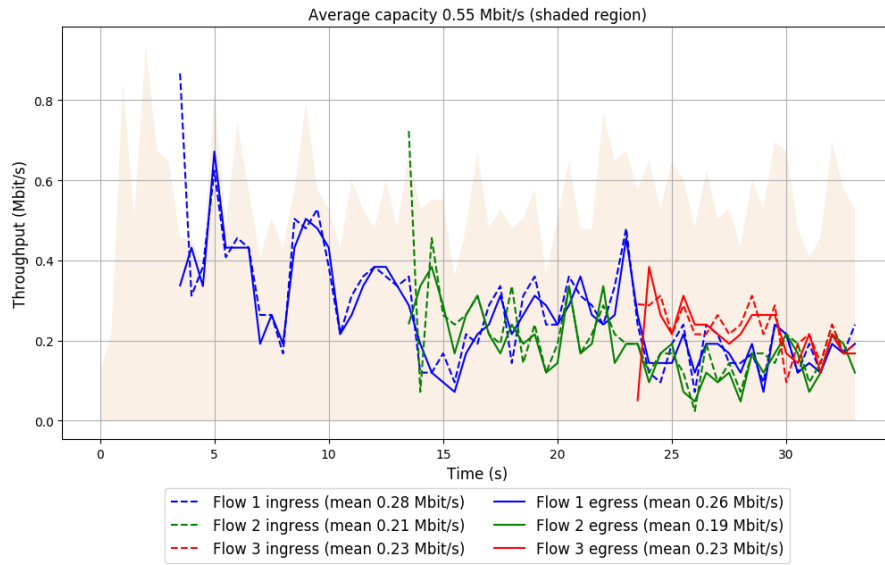
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 346.591 ms

Loss rate: 6.25%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 06:26:49

End at: 2018-02-16 06:27:19

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.44 Mbit/s (80.1% utilization)

95th percentile per-packet one-way delay: 305.993 ms

Loss rate: 6.78%

-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 272.911 ms

Loss rate: 5.72%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 291.511 ms

Loss rate: 7.42%

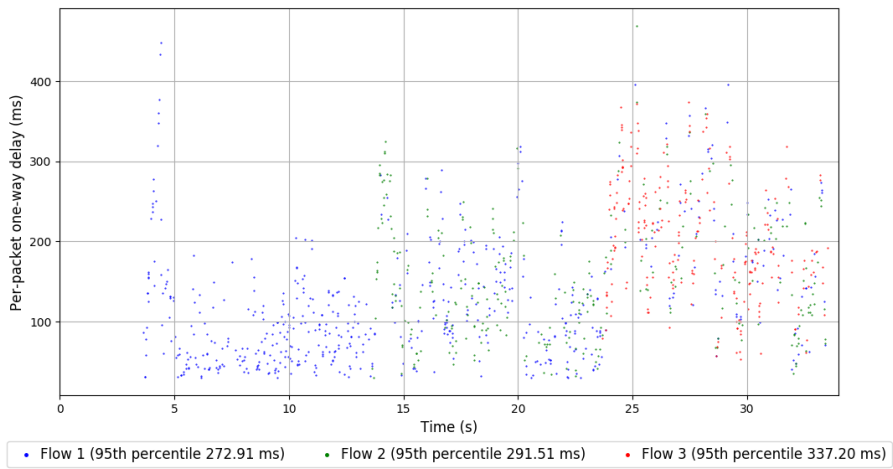
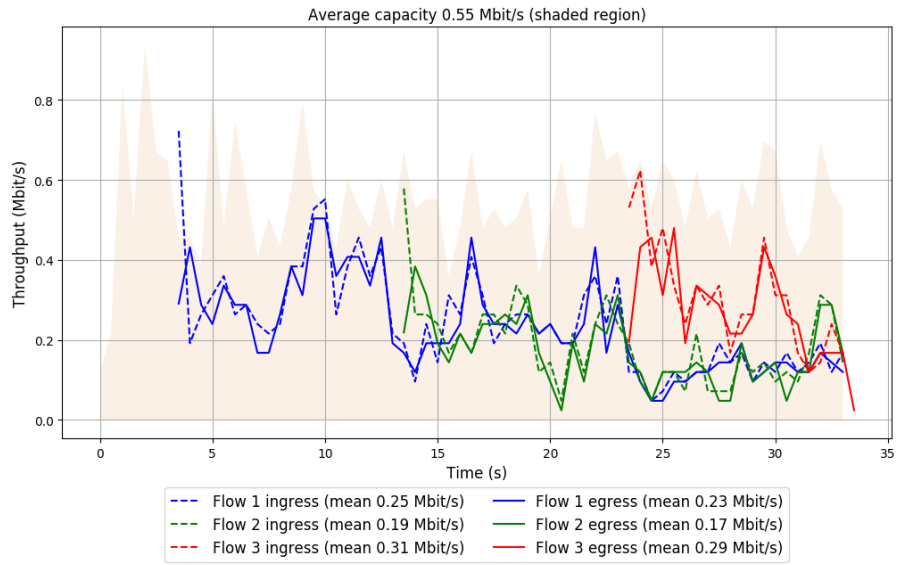
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 337.201 ms

Loss rate: 8.56%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 06:37:14

End at: 2018-02-16 06:37:44

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.45 Mbit/s (82.0% utilization)

95th percentile per-packet one-way delay: 272.942 ms

Loss rate: 6.48%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 254.180 ms

Loss rate: 5.30%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 286.360 ms

Loss rate: 6.84%

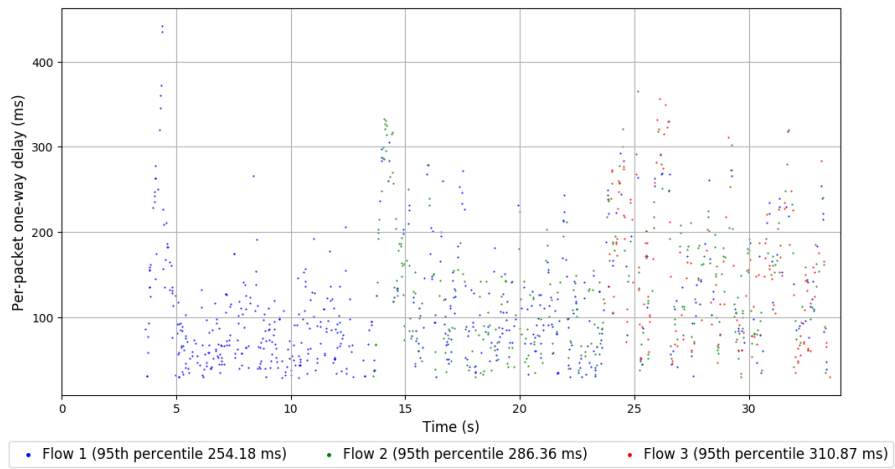
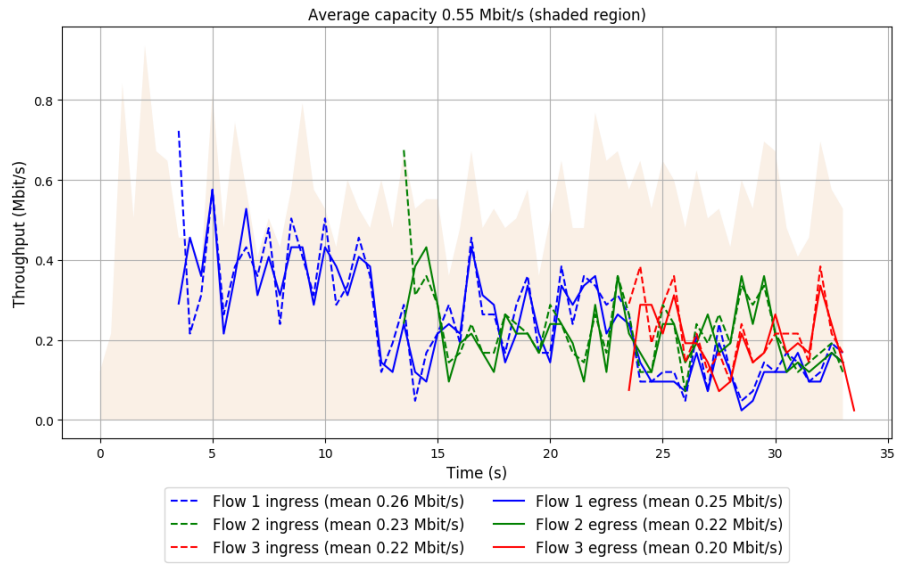
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 310.866 ms

Loss rate: 9.88%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 06:47:35

End at: 2018-02-16 06:48:05

Below is generated by plot.py at 2018-02-16 06:53:29

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.45 Mbit/s (81.8% utilization)

95th percentile per-packet one-way delay: 274.704 ms

Loss rate: 4.92%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 247.701 ms

Loss rate: 4.33%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 265.410 ms

Loss rate: 5.37%

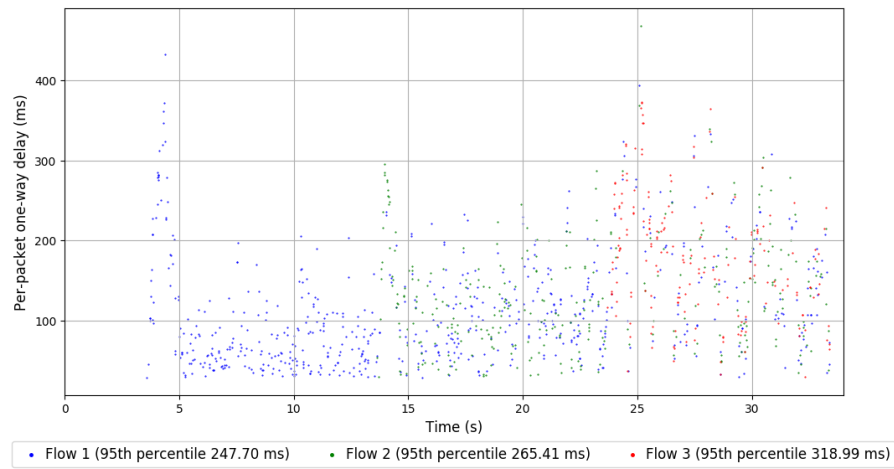
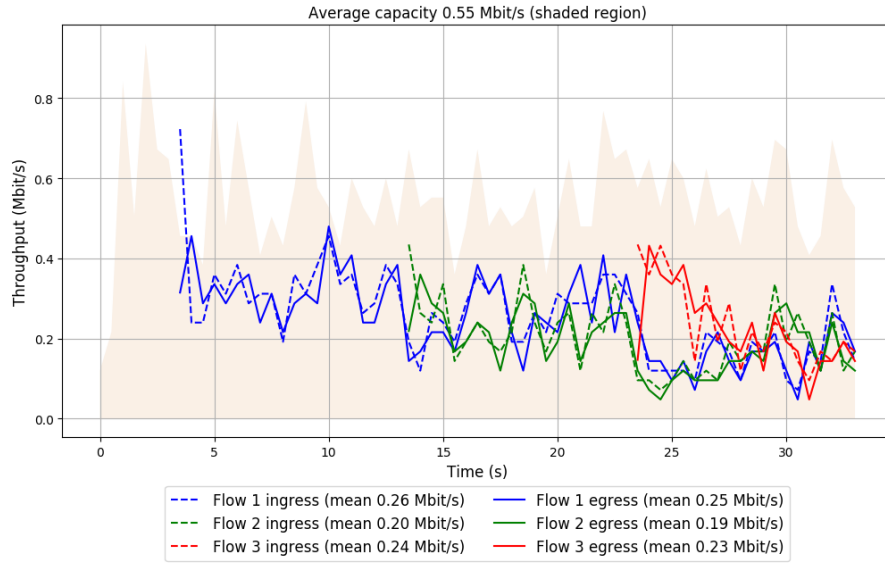
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 318.992 ms

Loss rate: 6.06%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-16 05:13:39

End at: 2018-02-16 05:14:09

Below is generated by plot.py at 2018-02-16 06:53:34

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (89.2% utilization)

95th percentile per-packet one-way delay: 435.372 ms

Loss rate: 87.69%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 437.855 ms

Loss rate: 37.20%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 427.555 ms

Loss rate: 45.92%

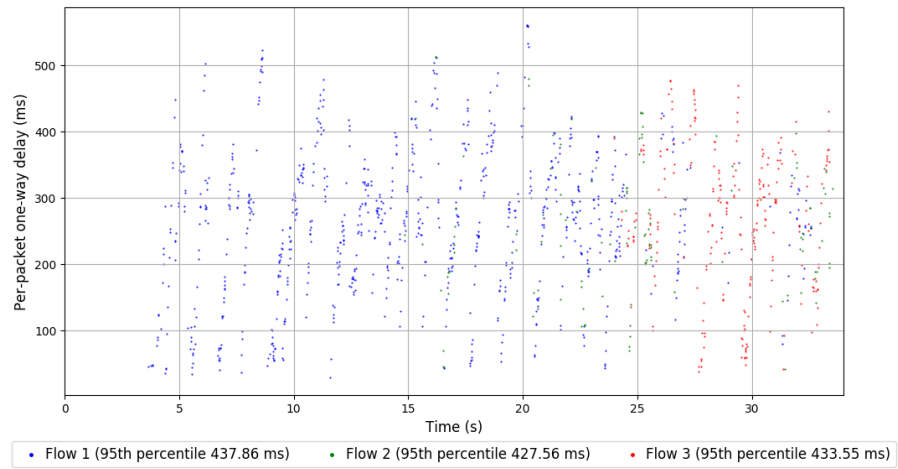
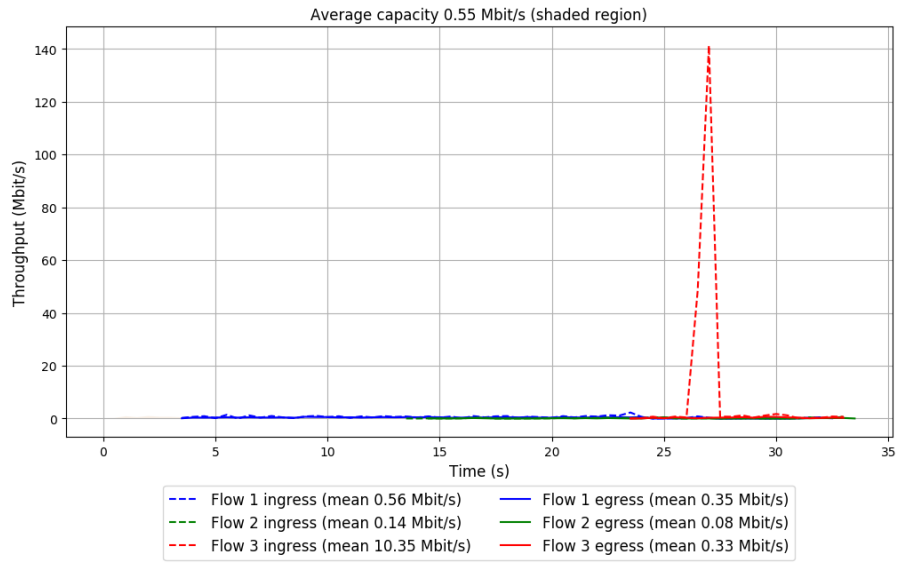
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 433.547 ms

Loss rate: 96.88%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 05:24:00

End at: 2018-02-16 05:24:30

Below is generated by plot.py at 2018-02-16 06:53:34

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (89.3% utilization)

95th percentile per-packet one-way delay: 463.039 ms

Loss rate: 47.75%

-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 463.442 ms

Loss rate: 47.56%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 451.048 ms

Loss rate: 49.84%

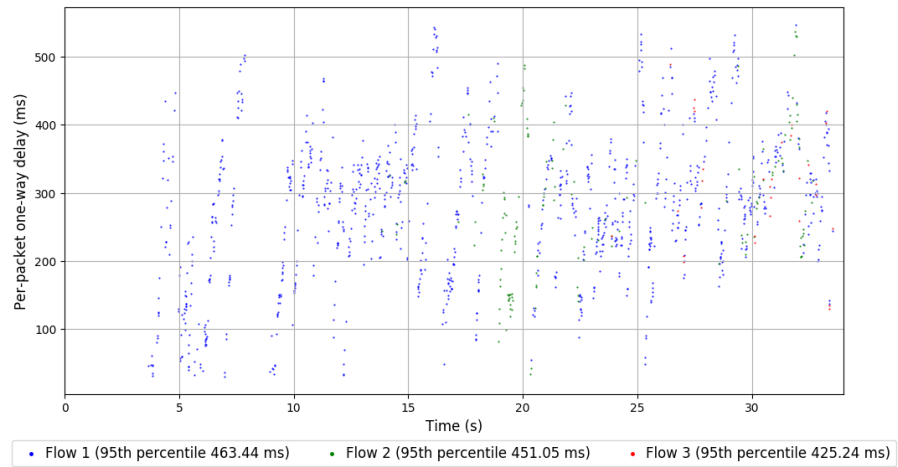
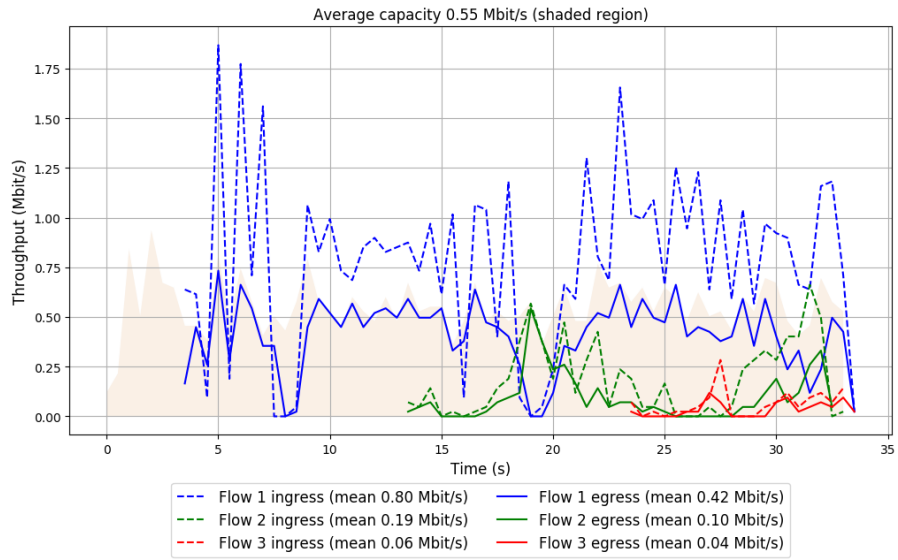
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 425.238 ms

Loss rate: 42.59%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-16 05:34:21

End at: 2018-02-16 05:34:51

Below is generated by plot.py at 2018-02-16 06:53:34

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.50 Mbit/s (90.6% utilization)

95th percentile per-packet one-way delay: 425.576 ms

Loss rate: 34.24%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 421.654 ms

Loss rate: 31.81%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 444.201 ms

Loss rate: 45.86%

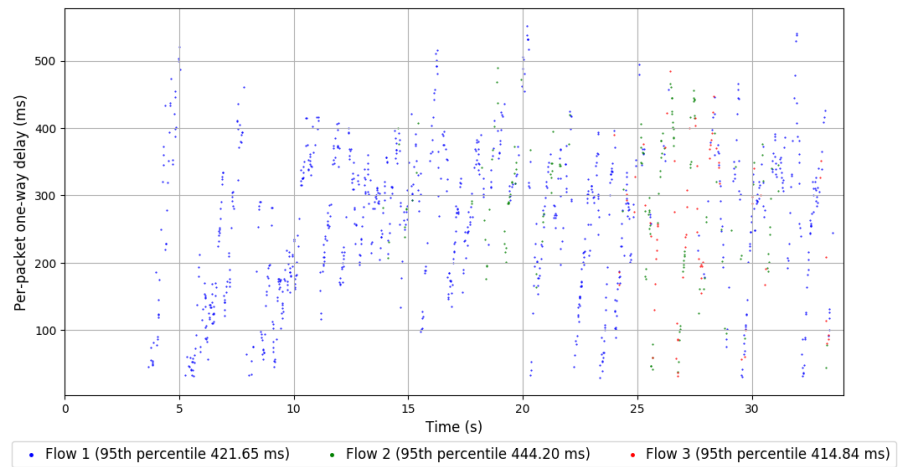
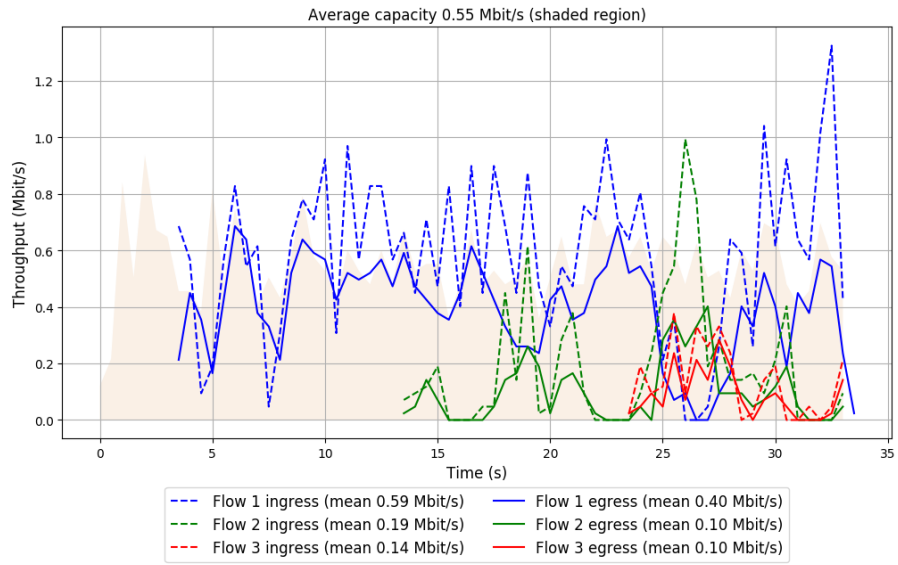
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 414.840 ms

Loss rate: 33.91%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-16 05:44:43

End at: 2018-02-16 05:45:13

Below is generated by plot.py at 2018-02-16 06:53:36

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (92.0% utilization)

95th percentile per-packet one-way delay: 445.413 ms

Loss rate: 43.62%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 447.190 ms

Loss rate: 31.66%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 424.187 ms

Loss rate: 53.73%

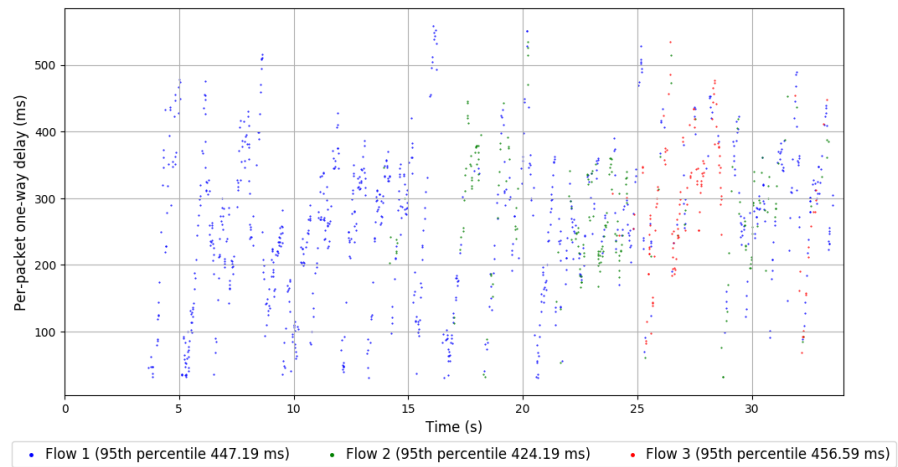
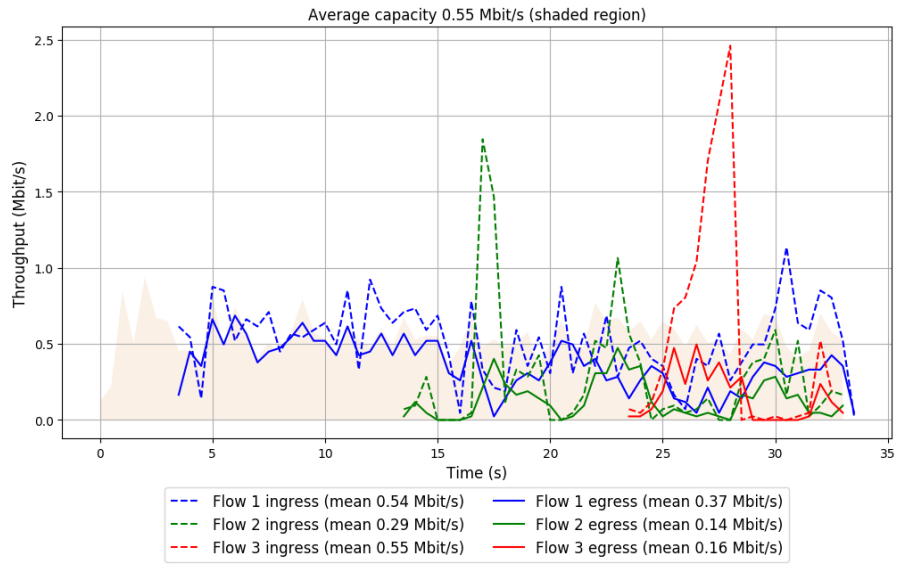
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 456.587 ms

Loss rate: 69.91%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-16 05:55:05

End at: 2018-02-16 05:55:35

Below is generated by plot.py at 2018-02-16 06:53:36

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.2% utilization)

95th percentile per-packet one-way delay: 444.018 ms

Loss rate: 36.15%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 444.952 ms

Loss rate: 34.51%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 431.212 ms

Loss rate: 42.86%

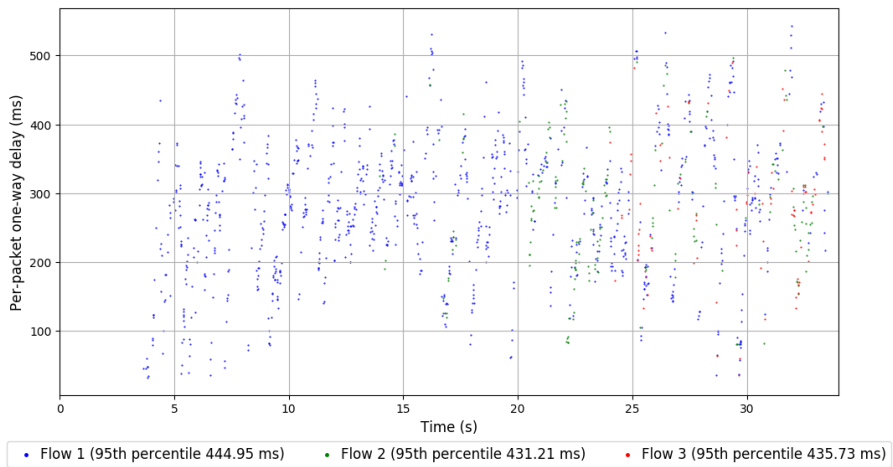
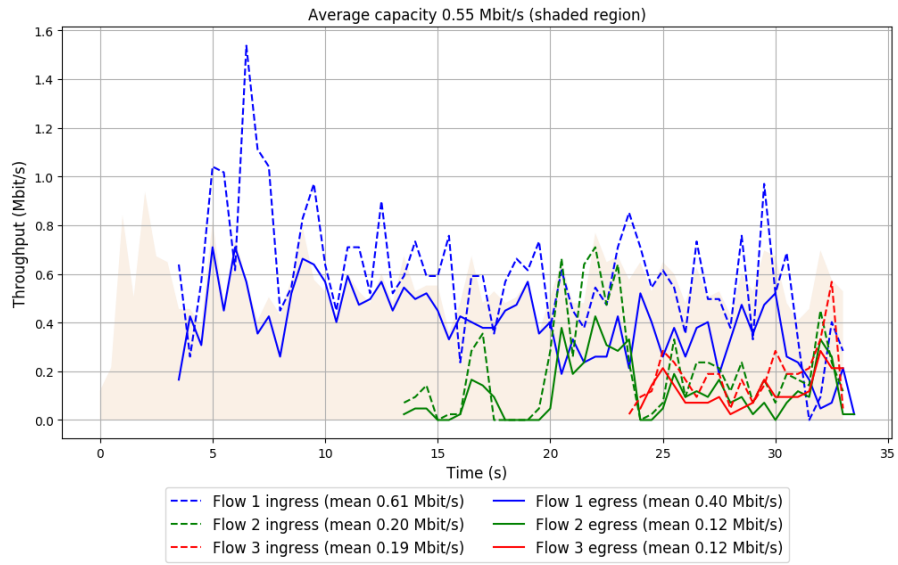
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 435.725 ms

Loss rate: 37.66%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-16 06:05:29

End at: 2018-02-16 06:05:59

Below is generated by plot.py at 2018-02-16 06:53:37

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.50 Mbit/s (90.3% utilization)

95th percentile per-packet one-way delay: 447.639 ms

Loss rate: 44.01%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 435.015 ms

Loss rate: 45.84%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 467.179 ms

Loss rate: 41.30%

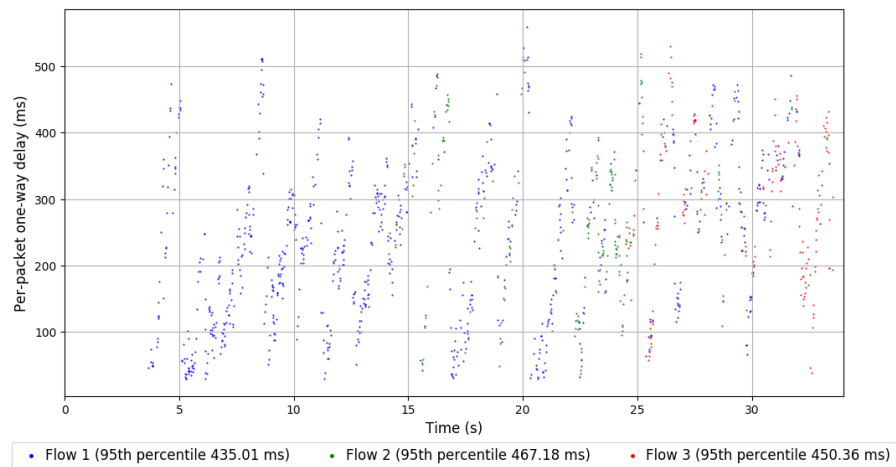
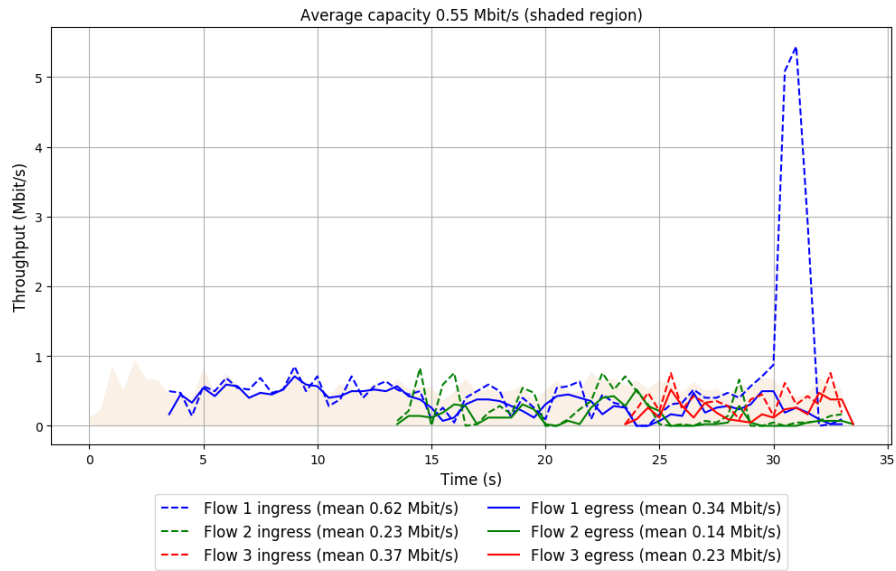
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 450.363 ms

Loss rate: 37.84%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-16 06:15:51

End at: 2018-02-16 06:16:21

Below is generated by plot.py at 2018-02-16 06:53:37

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.47 Mbit/s (84.4% utilization)

95th percentile per-packet one-way delay: 429.474 ms

Loss rate: 35.44%

-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 434.434 ms

Loss rate: 23.77%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 407.602 ms

Loss rate: 54.99%

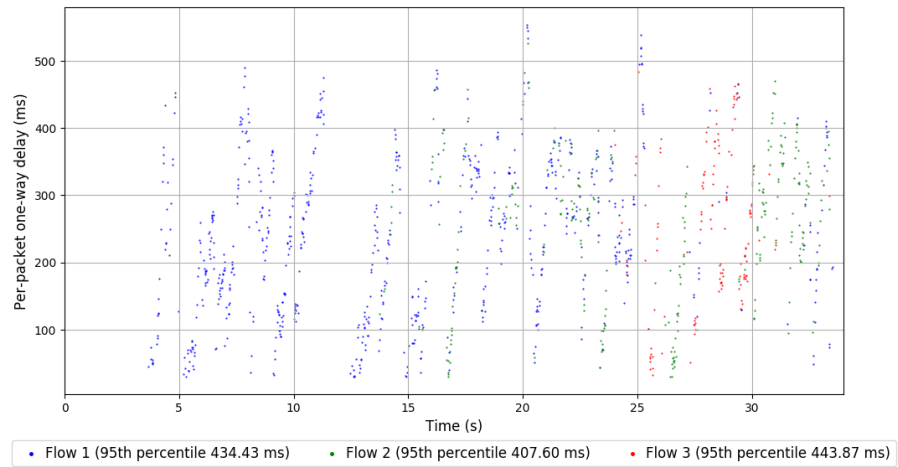
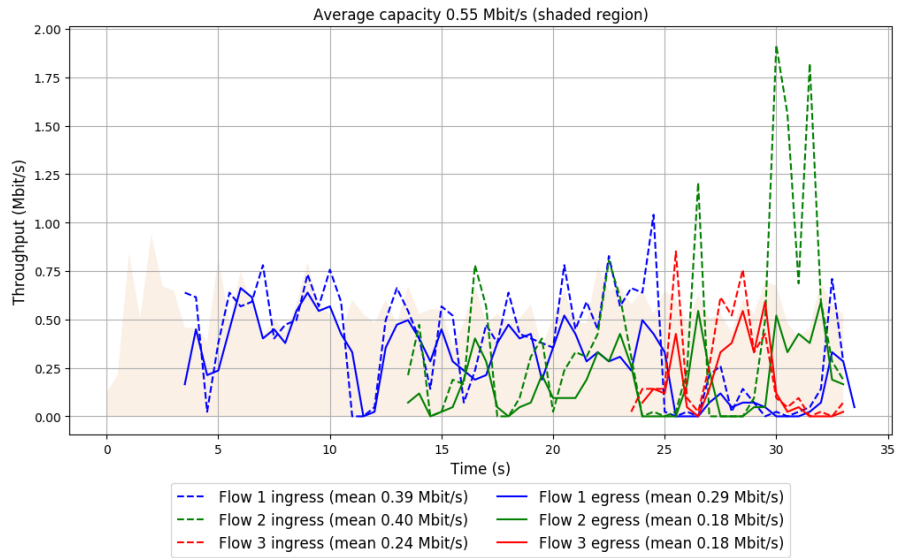
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 443.867 ms

Loss rate: 28.43%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 06:26:14

End at: 2018-02-16 06:26:44

Below is generated by plot.py at 2018-02-16 06:53:38

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.48 Mbit/s (87.6% utilization)

95th percentile per-packet one-way delay: 431.589 ms

Loss rate: 49.46%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 430.991 ms

Loss rate: 50.98%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 434.924 ms

Loss rate: 42.97%

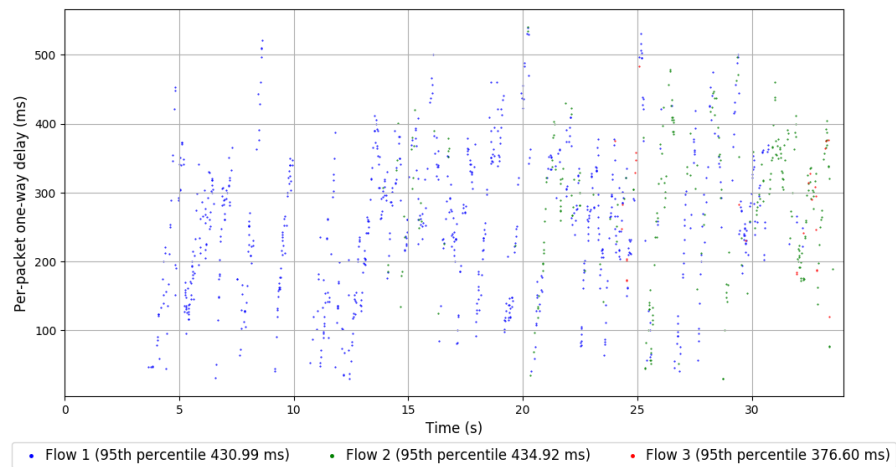
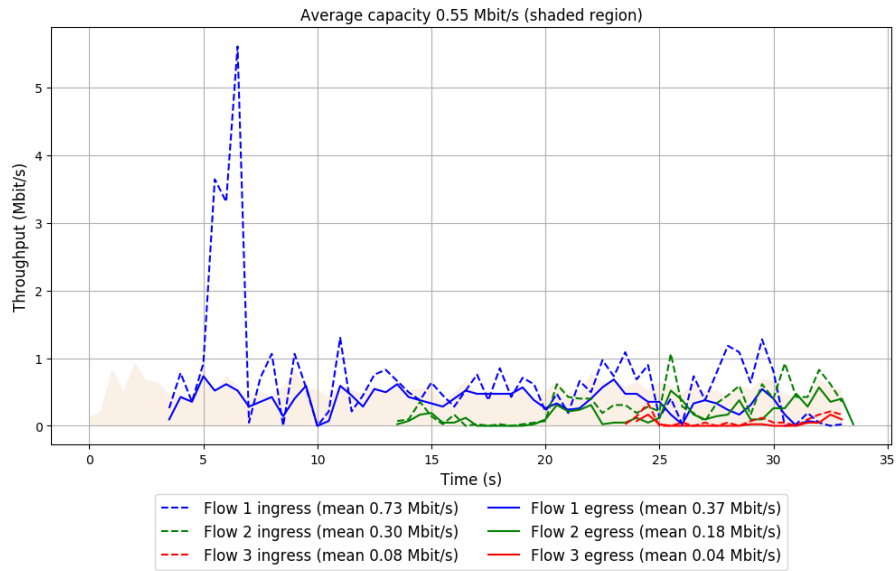
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 376.601 ms

Loss rate: 57.58%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 06:36:38

End at: 2018-02-16 06:37:08

Below is generated by plot.py at 2018-02-16 06:53:38

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (88.1% utilization)

95th percentile per-packet one-way delay: 451.307 ms

Loss rate: 47.87%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 451.307 ms

Loss rate: 40.70%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 466.825 ms

Loss rate: 69.90%

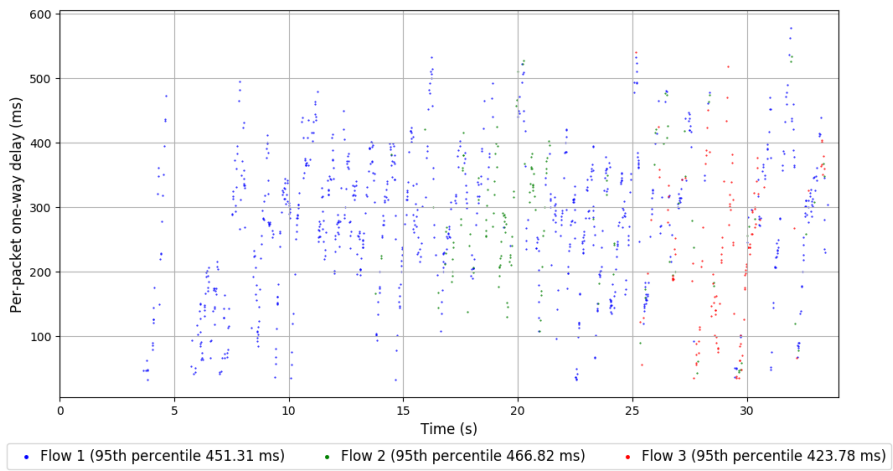
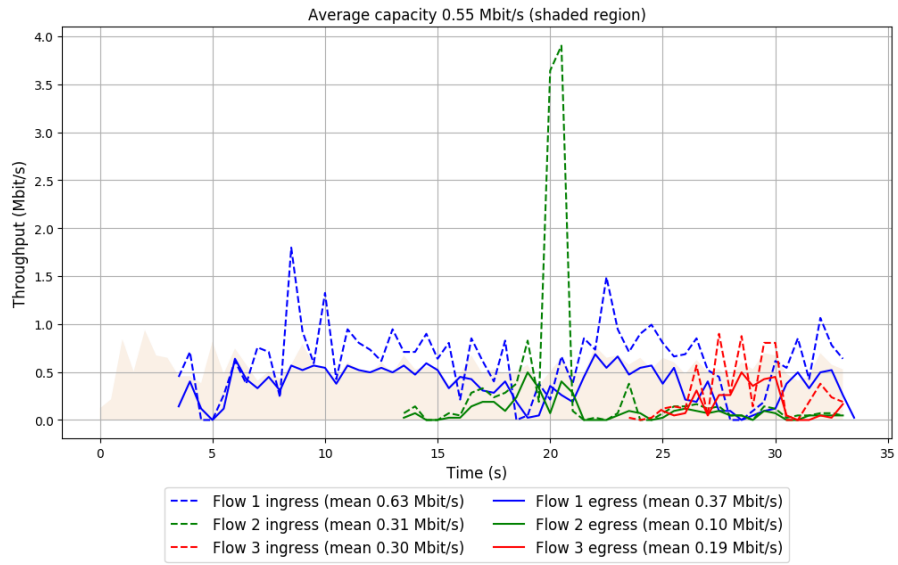
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 423.776 ms

Loss rate: 46.96%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 06:46:59

End at: 2018-02-16 06:47:29

Below is generated by plot.py at 2018-02-16 06:53:41

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.48 Mbit/s (86.5% utilization)

95th percentile per-packet one-way delay: 447.688 ms

Loss rate: 36.06%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 437.422 ms

Loss rate: 33.67%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 465.773 ms

Loss rate: 29.34%

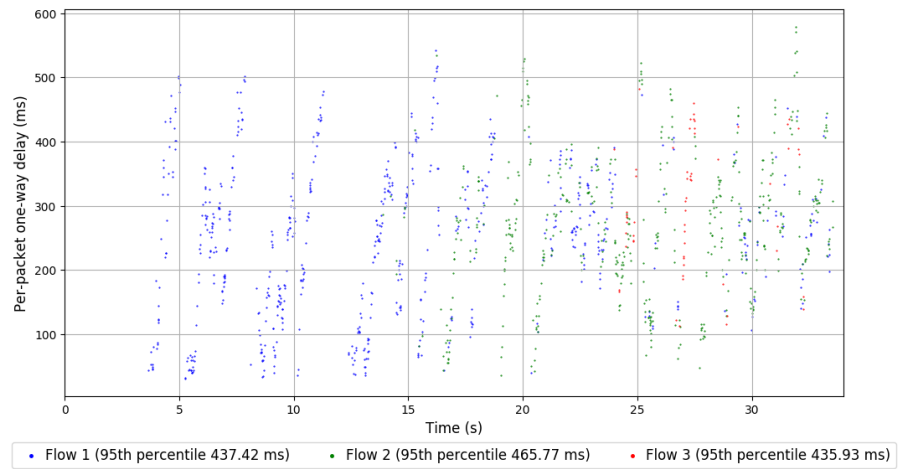
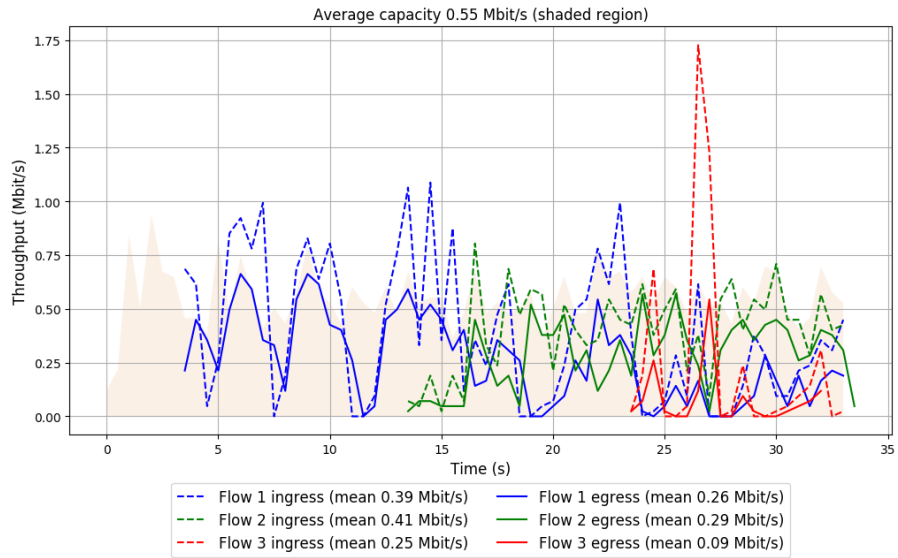
-- Flow 3:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 435.932 ms

Loss rate: 70.44%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-16 05:16:31

End at: 2018-02-16 05:17:01

Below is generated by plot.py at 2018-02-16 06:53:43

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.48 Mbit/s (86.3% utilization)

95th percentile per-packet one-way delay: 285.903 ms

Loss rate: 34.03%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 267.877 ms

Loss rate: 29.84%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 301.451 ms

Loss rate: 32.51%

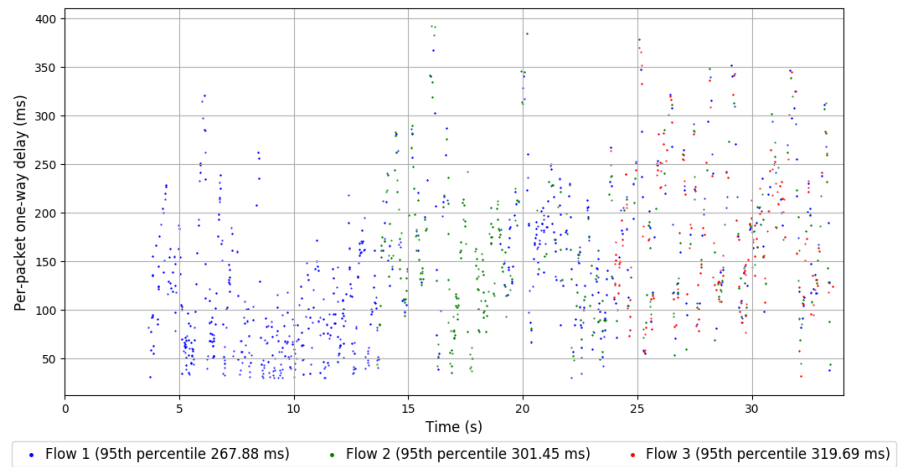
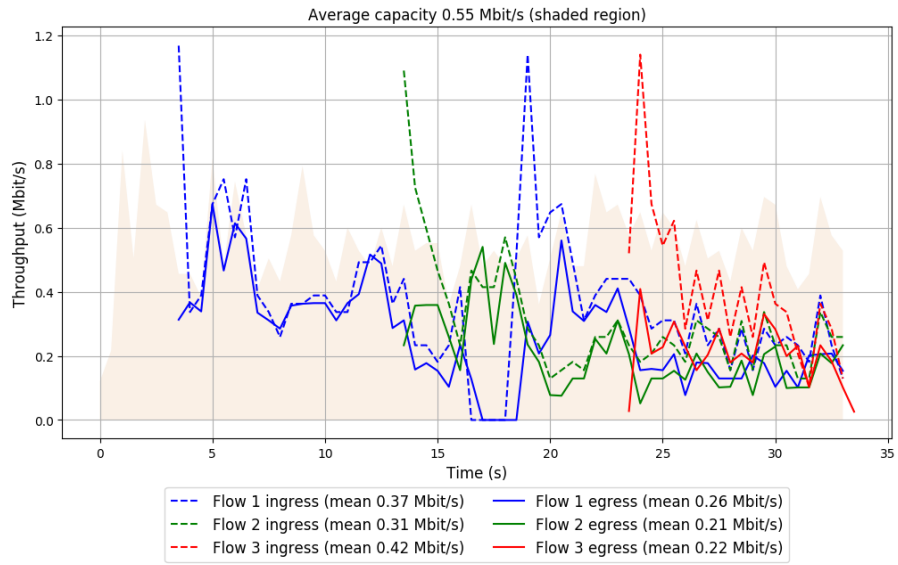
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 319.687 ms

Loss rate: 47.71%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-16 05:26:52

End at: 2018-02-16 05:27:22

Below is generated by plot.py at 2018-02-16 06:53:45

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (88.0% utilization)

95th percentile per-packet one-way delay: 291.638 ms

Loss rate: 29.59%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 282.049 ms

Loss rate: 23.63%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 305.563 ms

Loss rate: 27.75%

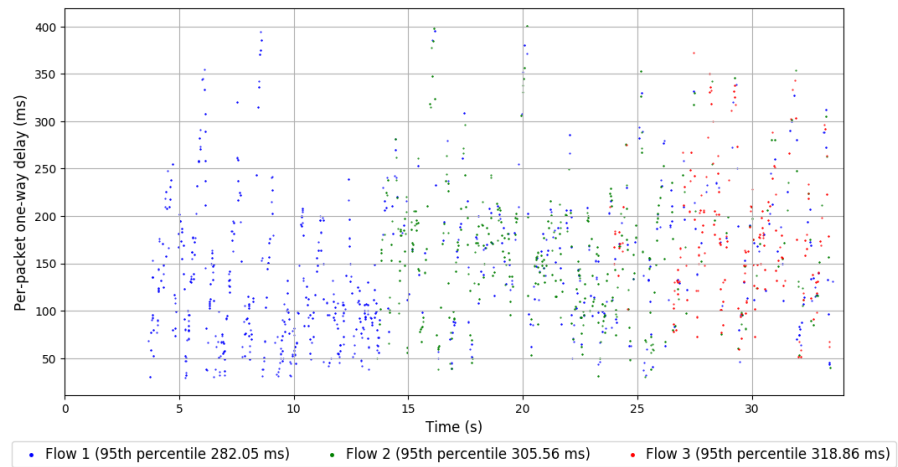
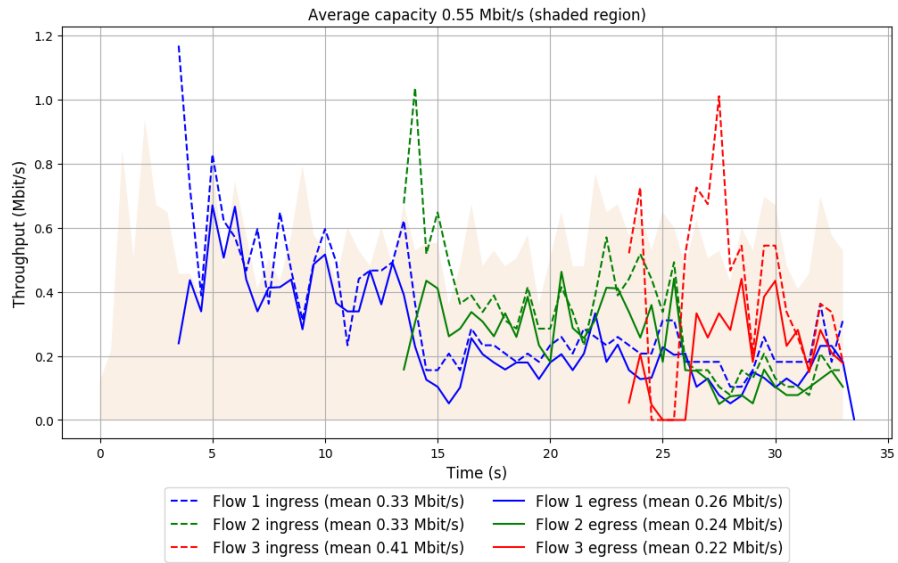
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 318.861 ms

Loss rate: 47.22%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-16 05:37:13

End at: 2018-02-16 05:37:43

Below is generated by plot.py at 2018-02-16 06:53:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.44 Mbit/s (79.3% utilization)

95th percentile per-packet one-way delay: 299.454 ms

Loss rate: 28.25%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 258.689 ms

Loss rate: 21.33%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 309.912 ms

Loss rate: 27.26%

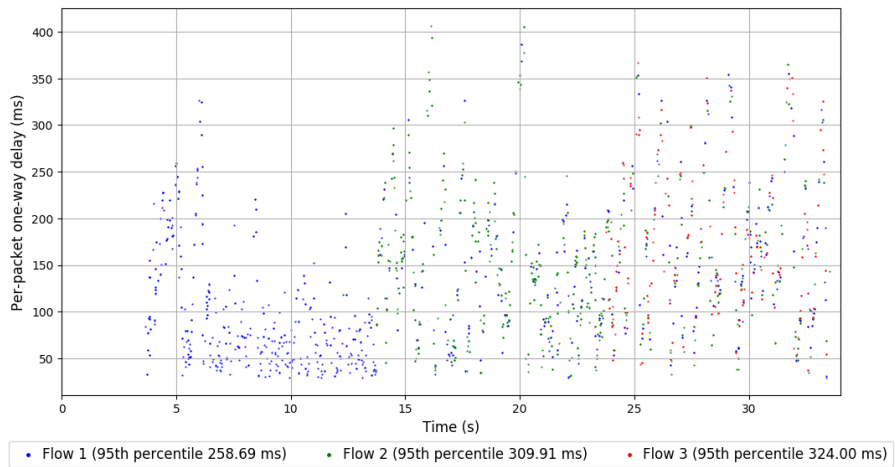
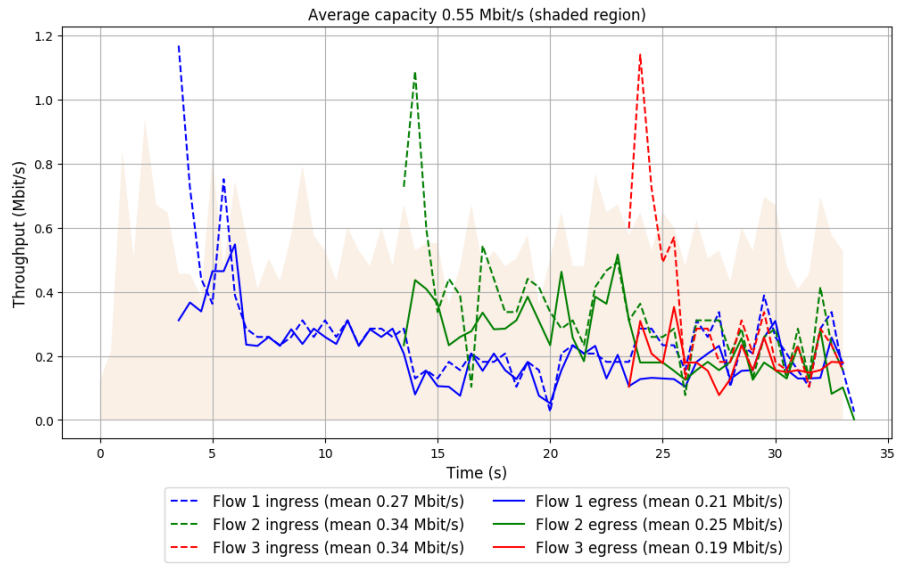
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 324.002 ms

Loss rate: 46.43%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-16 05:47:36

End at: 2018-02-16 05:48:06

Below is generated by plot.py at 2018-02-16 06:53:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.49 Mbit/s (88.7% utilization)

95th percentile per-packet one-way delay: 277.967 ms

Loss rate: 28.62%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 256.115 ms

Loss rate: 20.46%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 296.483 ms

Loss rate: 34.32%

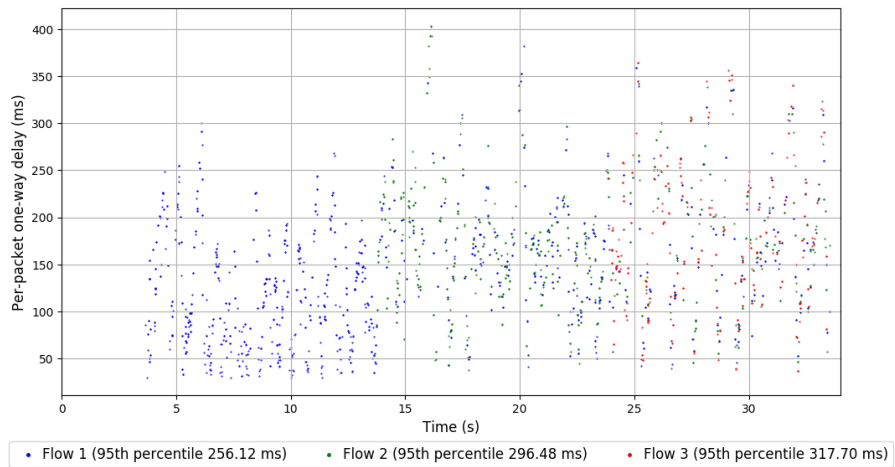
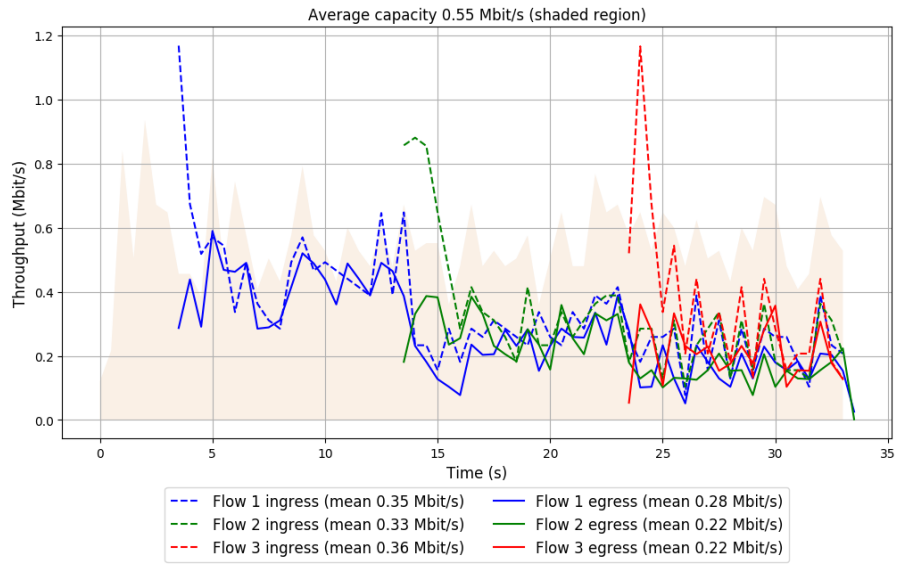
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 317.699 ms

Loss rate: 41.71%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-16 05:57:57

End at: 2018-02-16 05:58:27

Below is generated by plot.py at 2018-02-16 06:53:46

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.33 Mbit/s (59.2% utilization)

95th percentile per-packet one-way delay: 289.760 ms

Loss rate: 24.93%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 36.865 ms

Loss rate: 50.00%

-- Flow 2:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 272.906 ms

Loss rate: 18.44%

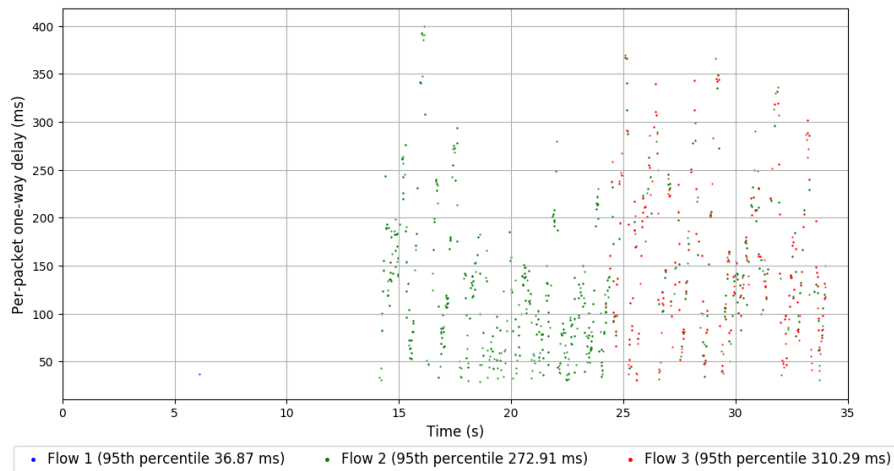
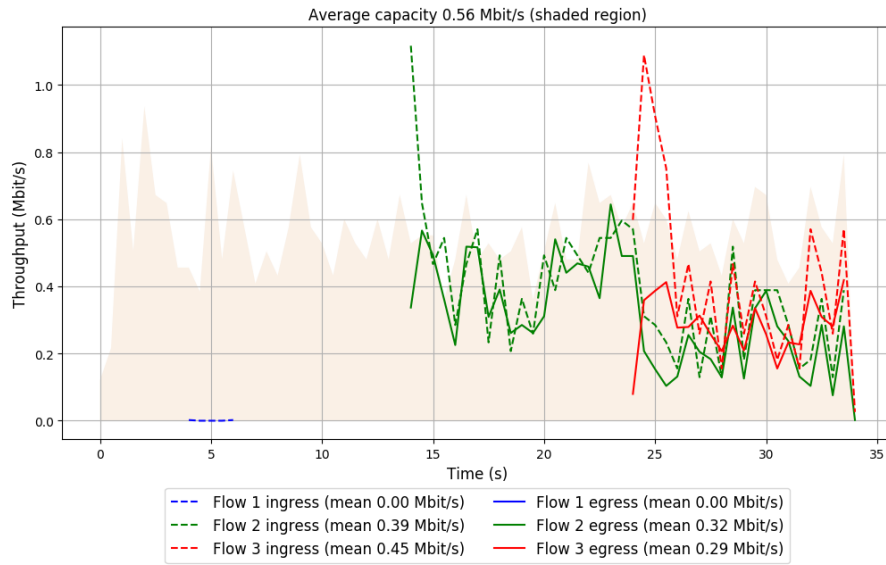
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 310.287 ms

Loss rate: 36.25%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-16 06:08:21

End at: 2018-02-16 06:08:51

Below is generated by plot.py at 2018-02-16 06:53:47

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.44 Mbit/s (79.3% utilization)

95th percentile per-packet one-way delay: 285.891 ms

Loss rate: 27.44%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 260.932 ms

Loss rate: 21.41%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 286.879 ms

Loss rate: 26.84%

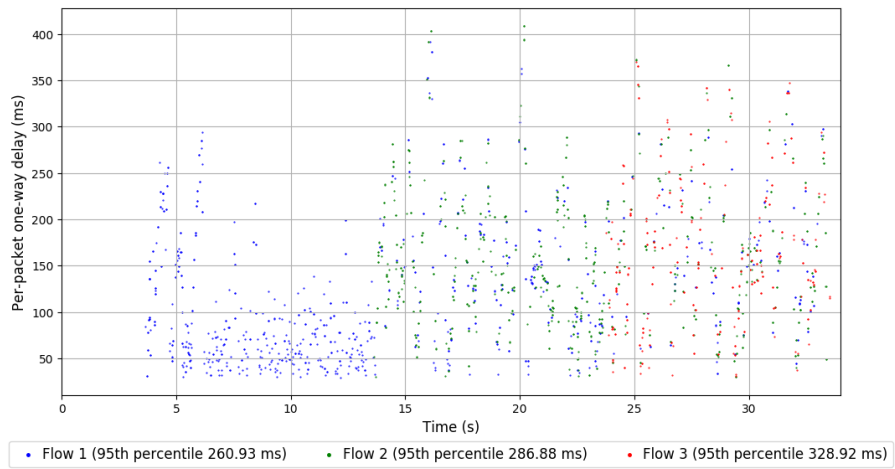
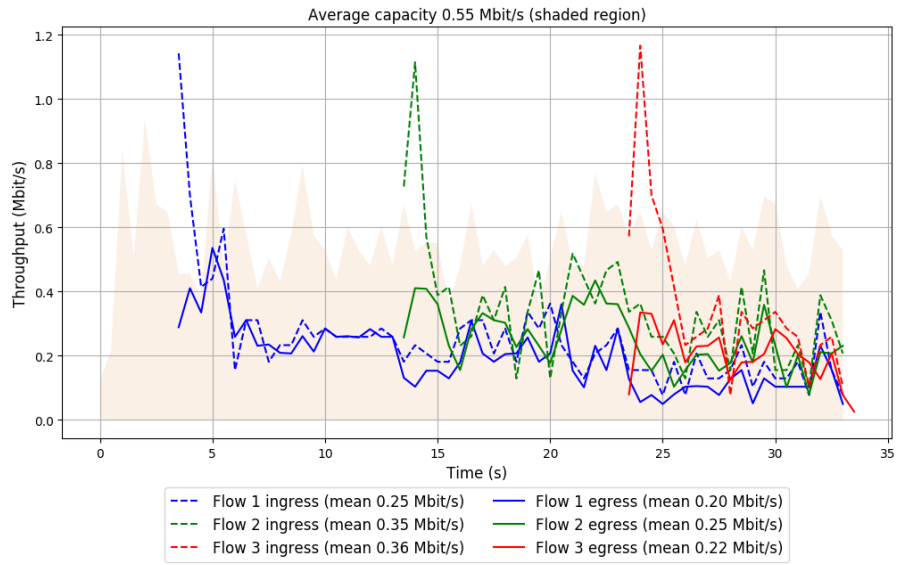
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 328.917 ms

Loss rate: 41.13%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-16 06:18:43

End at: 2018-02-16 06:19:13

Below is generated by plot.py at 2018-02-16 06:53:48

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (78.4% utilization)

95th percentile per-packet one-way delay: 282.582 ms

Loss rate: 33.24%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 266.448 ms

Loss rate: 30.50%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 286.781 ms

Loss rate: 28.36%

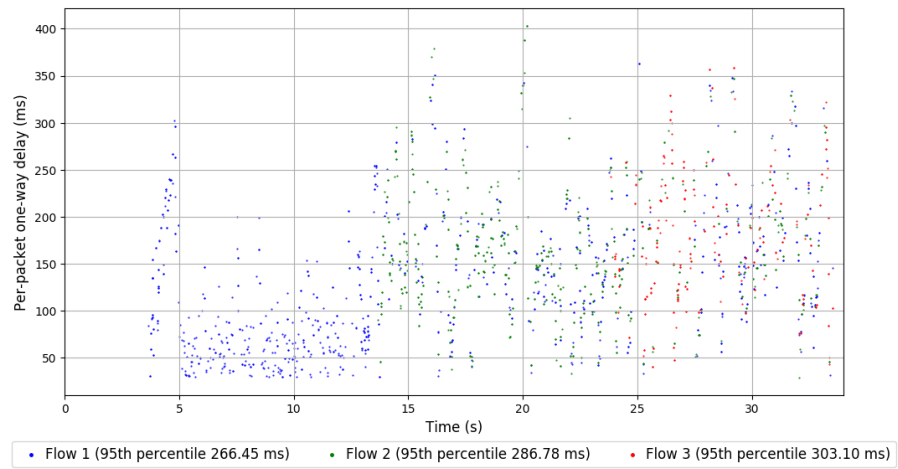
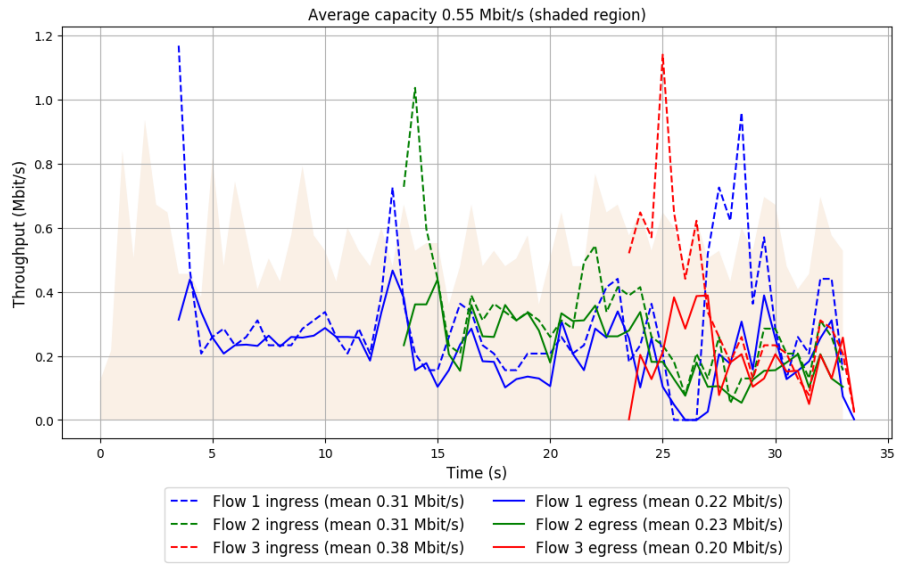
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 303.099 ms

Loss rate: 48.30%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-16 06:29:07

End at: 2018-02-16 06:29:37

Below is generated by plot.py at 2018-02-16 06:53:49

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.37 Mbit/s (66.5% utilization)

95th percentile per-packet one-way delay: 242.111 ms

Loss rate: 15.99%

-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 239.409 ms

Loss rate: 13.12%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 57.326 ms

Loss rate: 50.00%

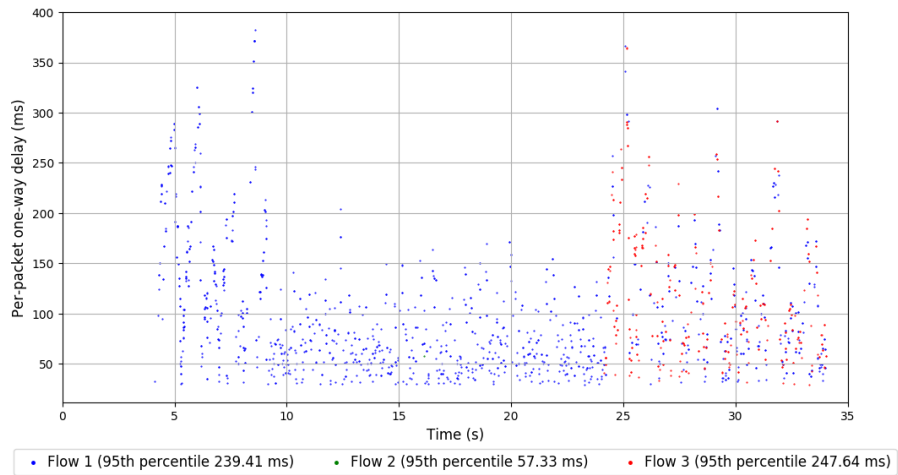
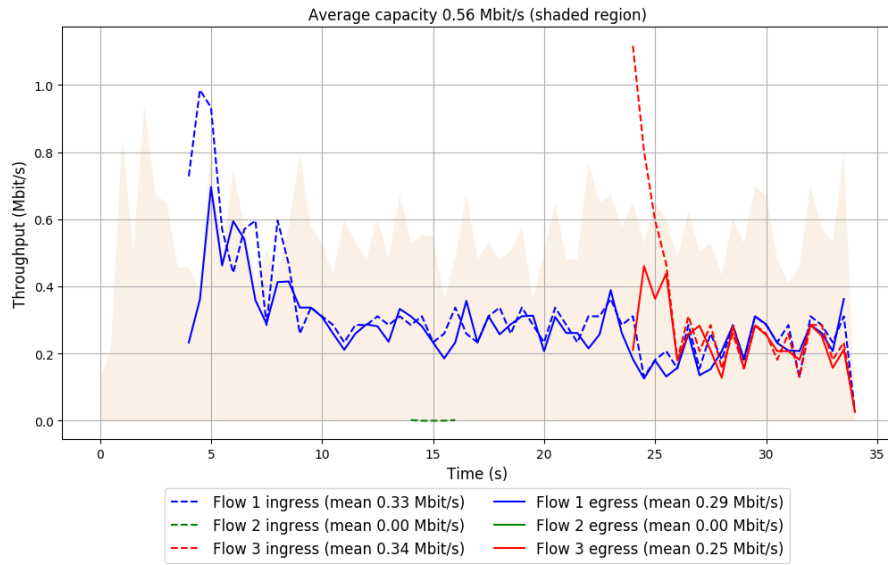
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 247.642 ms

Loss rate: 24.41%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 06:39:32

End at: 2018-02-16 06:40:02

Below is generated by plot.py at 2018-02-16 06:53:50

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.47 Mbit/s (85.8% utilization)

95th percentile per-packet one-way delay: 269.139 ms

Loss rate: 28.62%

-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 255.982 ms

Loss rate: 19.96%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 285.282 ms

Loss rate: 32.55%

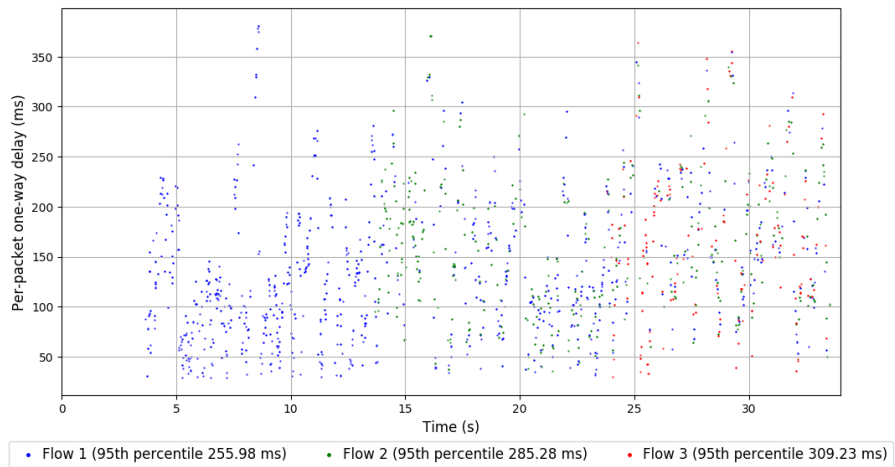
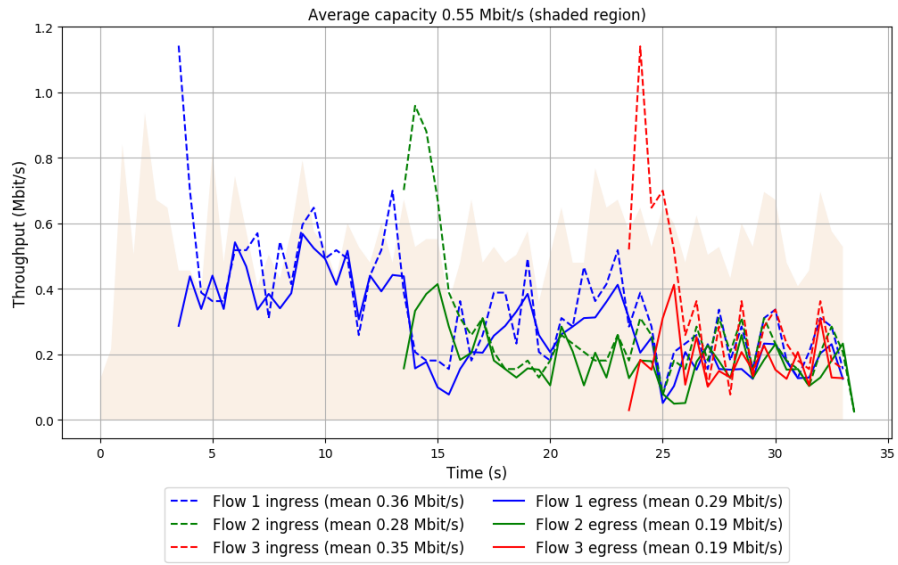
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 309.227 ms

Loss rate: 48.90%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 06:49:52

End at: 2018-02-16 06:50:22

Below is generated by plot.py at 2018-02-16 06:53:50

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.33 Mbit/s (59.0% utilization)

95th percentile per-packet one-way delay: 271.601 ms

Loss rate: 22.20%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 37.011 ms

Loss rate: 50.00%

-- Flow 2:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 268.894 ms

Loss rate: 18.46%

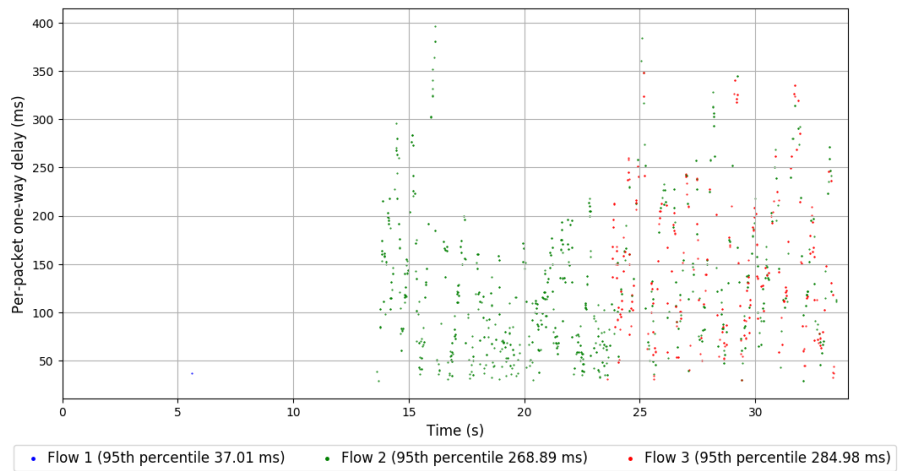
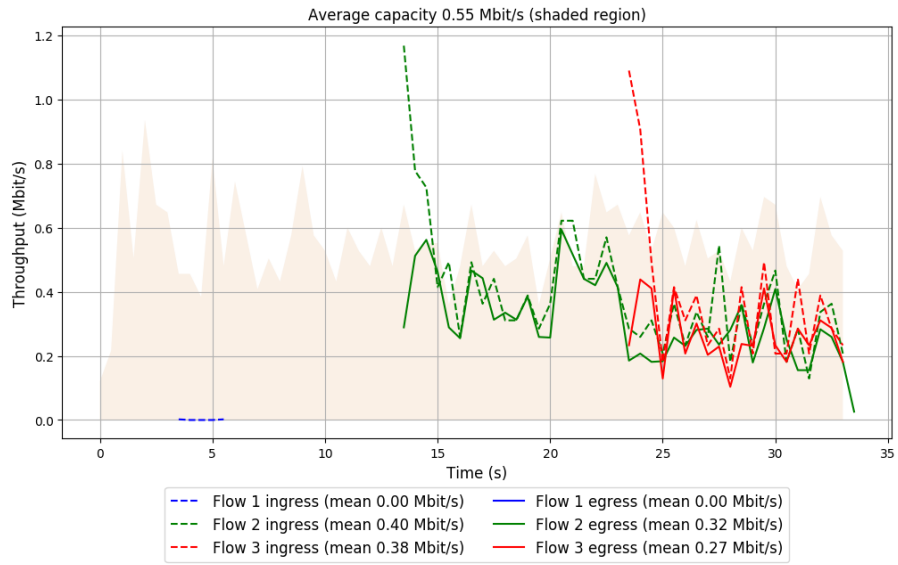
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 284.981 ms

Loss rate: 30.07%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-16 05:12:29

End at: 2018-02-16 05:12:59

Below is generated by plot.py at 2018-02-16 06:54:39

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.2% utilization)

95th percentile per-packet one-way delay: 454.160 ms

Loss rate: 99.42%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 455.205 ms

Loss rate: 98.27%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 457.003 ms

Loss rate: 99.62%

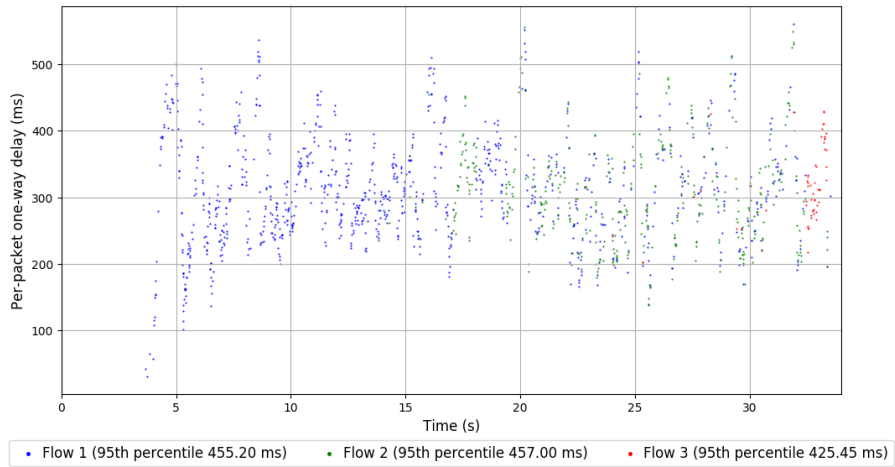
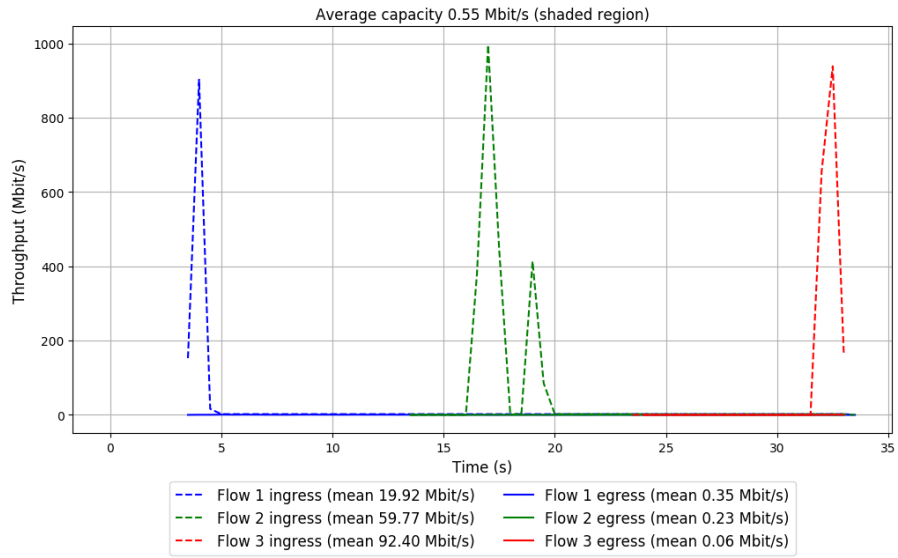
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 425.450 ms

Loss rate: 99.94%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-16 05:22:50

End at: 2018-02-16 05:23:20

Below is generated by plot.py at 2018-02-16 06:54:39

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.4% utilization)

95th percentile per-packet one-way delay: 459.648 ms

Loss rate: 99.39%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 454.816 ms

Loss rate: 98.25%

-- Flow 2:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 467.006 ms

Loss rate: 99.53%

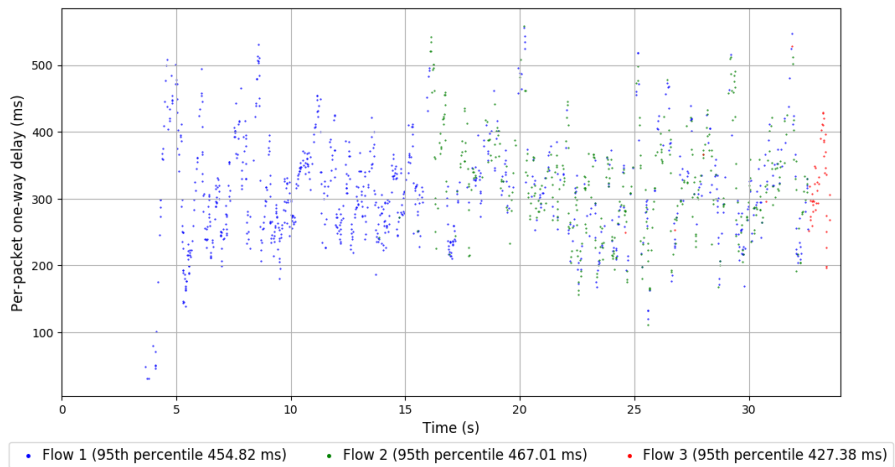
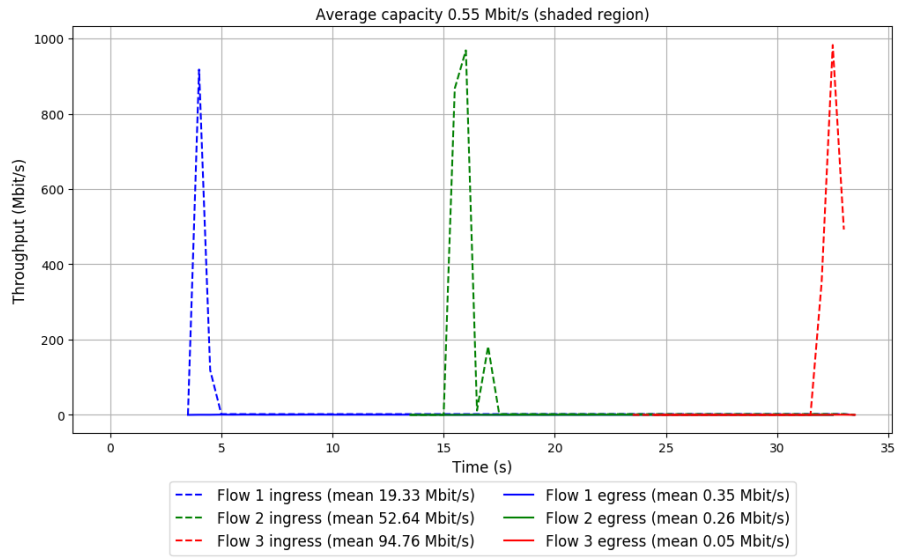
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 427.377 ms

Loss rate: 99.95%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 05:33:11

End at: 2018-02-16 05:33:41

Below is generated by plot.py at 2018-02-16 06:54:39

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.1% utilization)

95th percentile per-packet one-way delay: 449.514 ms

Loss rate: 98.79%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 449.665 ms

Loss rate: 98.39%

-- Flow 2:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 448.860 ms

Loss rate: 99.19%

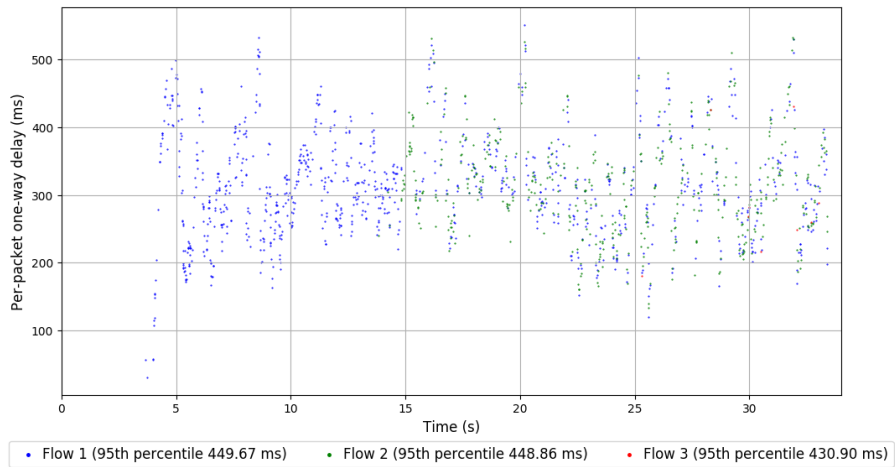
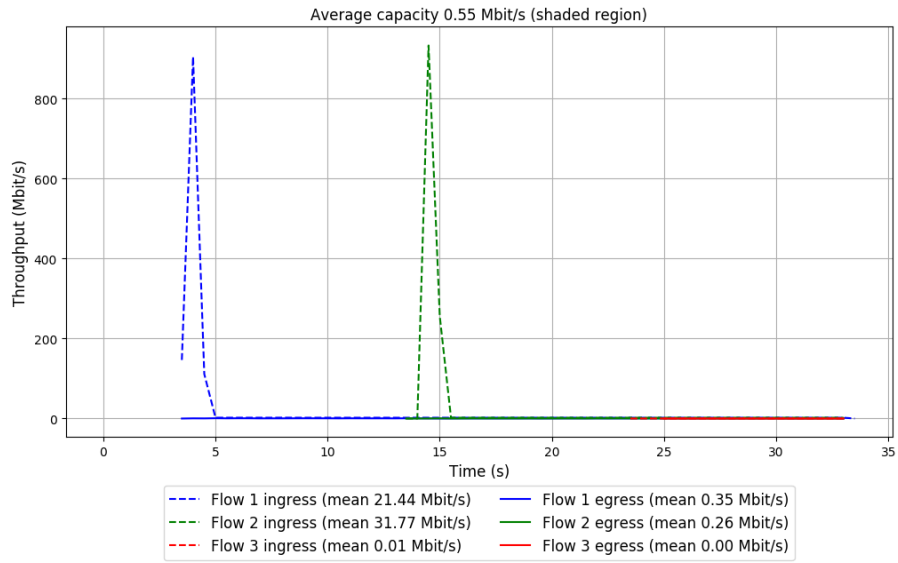
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 430.902 ms

Loss rate: 85.19%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-16 05:43:34

End at: 2018-02-16 05:44:04

Below is generated by plot.py at 2018-02-16 06:54:39

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.8% utilization)

95th percentile per-packet one-way delay: 445.376 ms

Loss rate: 98.94%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 439.911 ms

Loss rate: 98.39%

-- Flow 2:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 465.873 ms

Loss rate: 99.37%

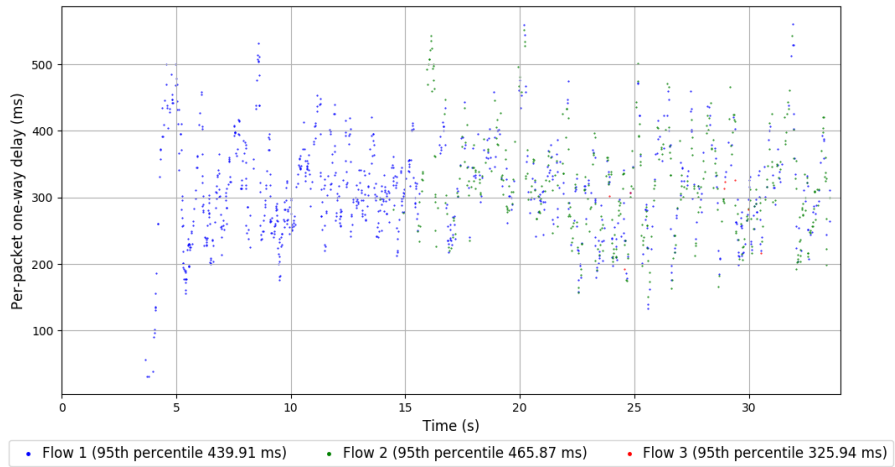
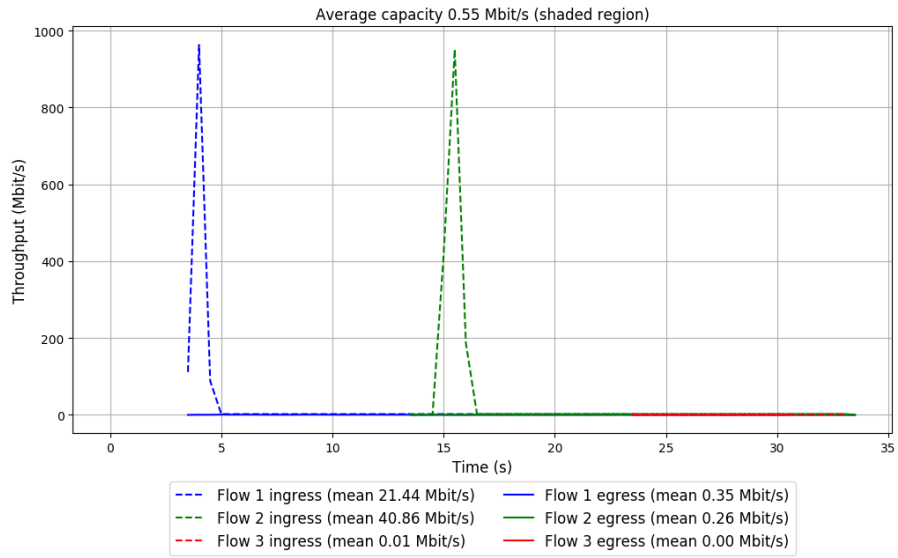
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 325.937 ms

Loss rate: 85.93%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-16 05:53:55

End at: 2018-02-16 05:54:25

Below is generated by plot.py at 2018-02-16 06:54:39

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 447.765 ms

Loss rate: 99.07%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 436.516 ms

Loss rate: 98.48%

-- Flow 2:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 467.608 ms

Loss rate: 99.45%

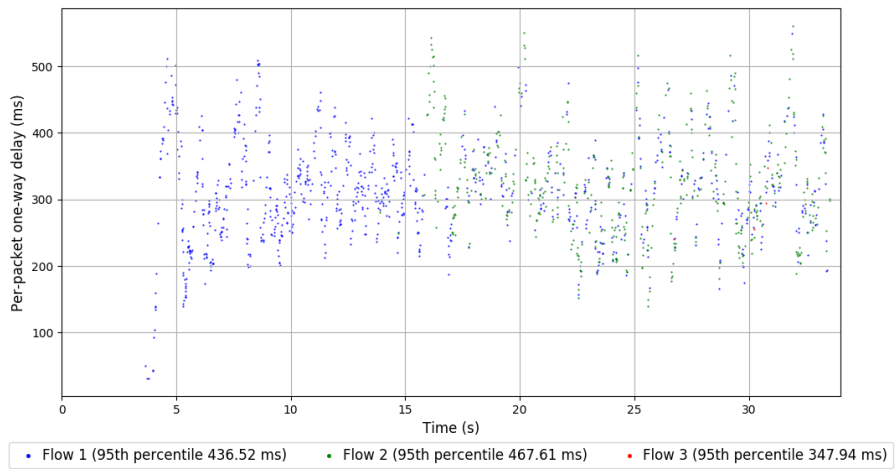
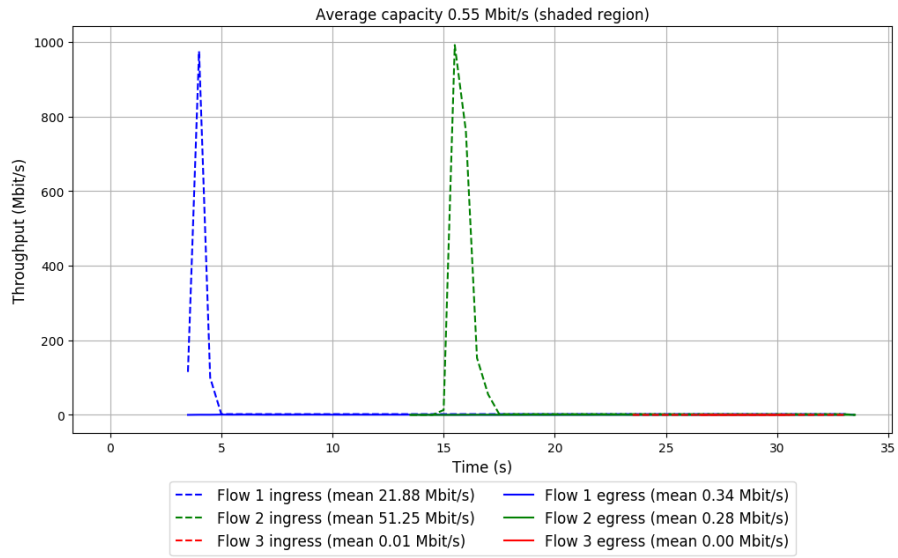
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 347.939 ms

Loss rate: 92.53%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-16 06:04:19

End at: 2018-02-16 06:04:49

Below is generated by plot.py at 2018-02-16 06:54:39

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.3% utilization)

95th percentile per-packet one-way delay: 449.079 ms

Loss rate: 98.95%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 446.998 ms

Loss rate: 98.45%

-- Flow 2:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 458.695 ms

Loss rate: 99.37%

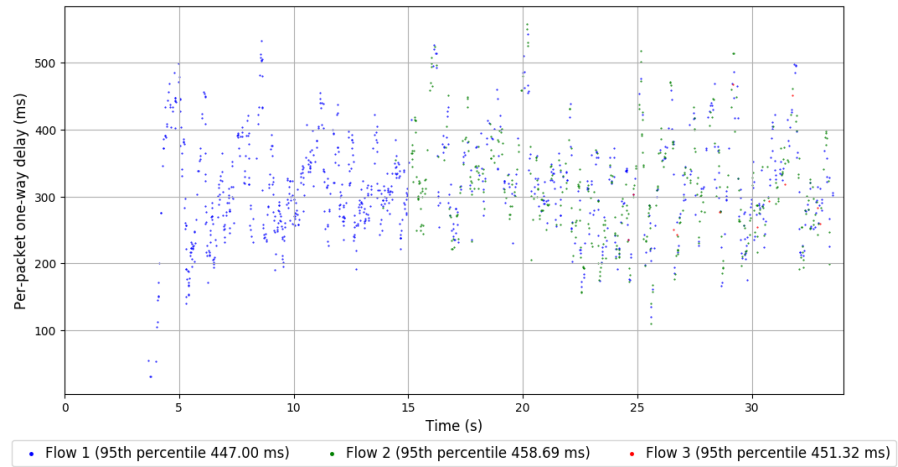
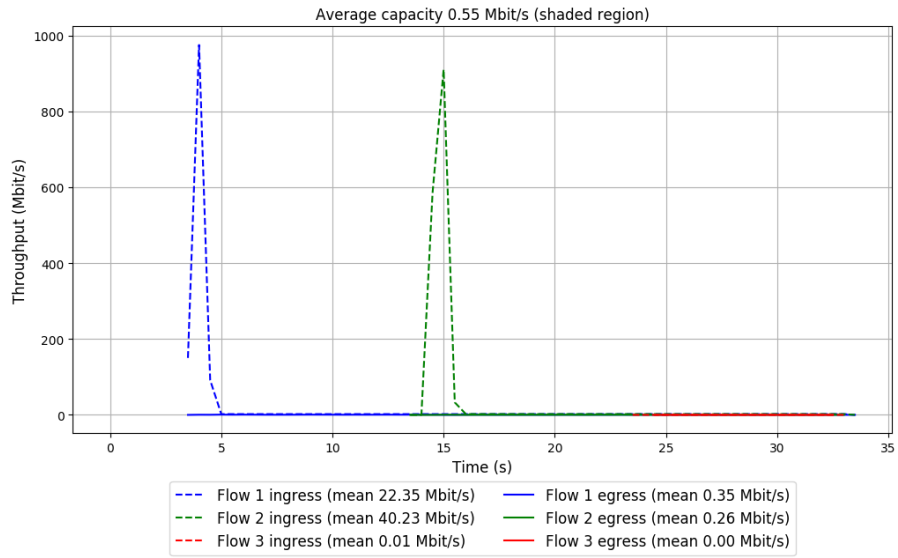
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 451.323 ms

Loss rate: 79.48%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-16 06:14:41

End at: 2018-02-16 06:15:11

Below is generated by plot.py at 2018-02-16 06:54:39

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.53 Mbit/s (95.2% utilization)

95th percentile per-packet one-way delay: 449.322 ms

Loss rate: 99.24%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 437.191 ms

Loss rate: 98.31%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 495.482 ms

Loss rate: 99.11%

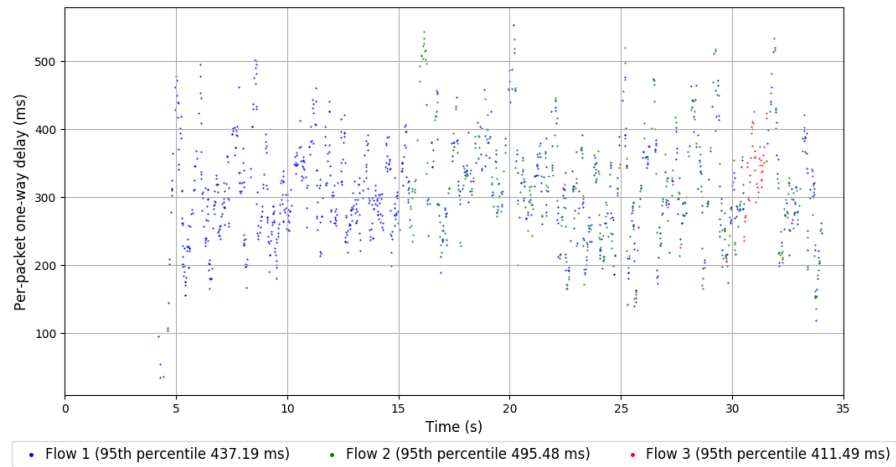
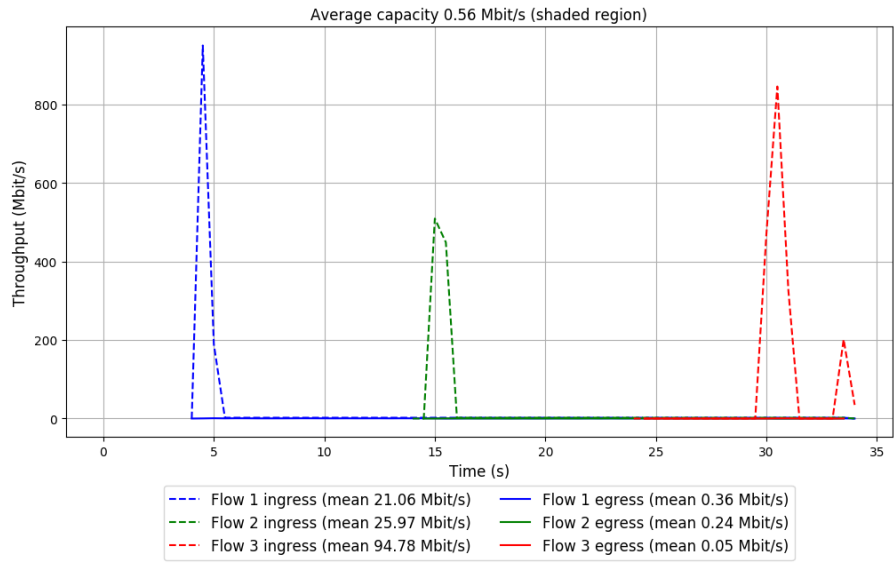
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 411.485 ms

Loss rate: 99.95%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 06:25:04

End at: 2018-02-16 06:25:34

Below is generated by plot.py at 2018-02-16 06:54:53

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.6% utilization)

95th percentile per-packet one-way delay: 448.216 ms

Loss rate: 99.46%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 453.573 ms

Loss rate: 98.19%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 440.638 ms

Loss rate: 99.68%

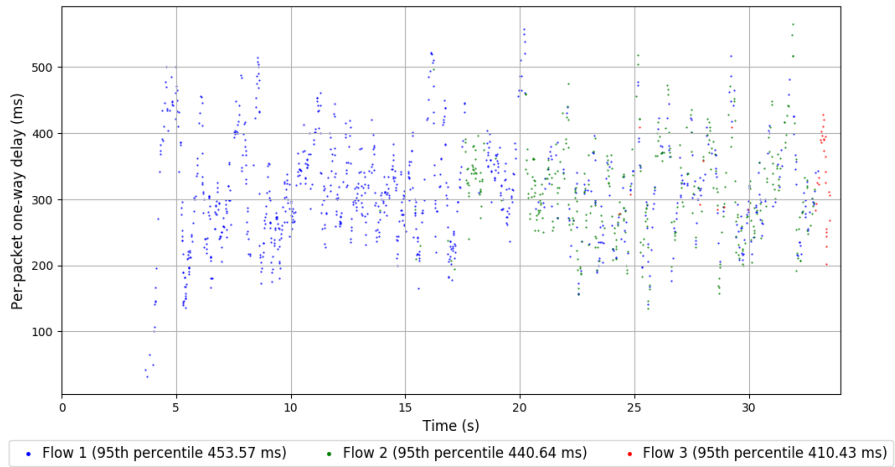
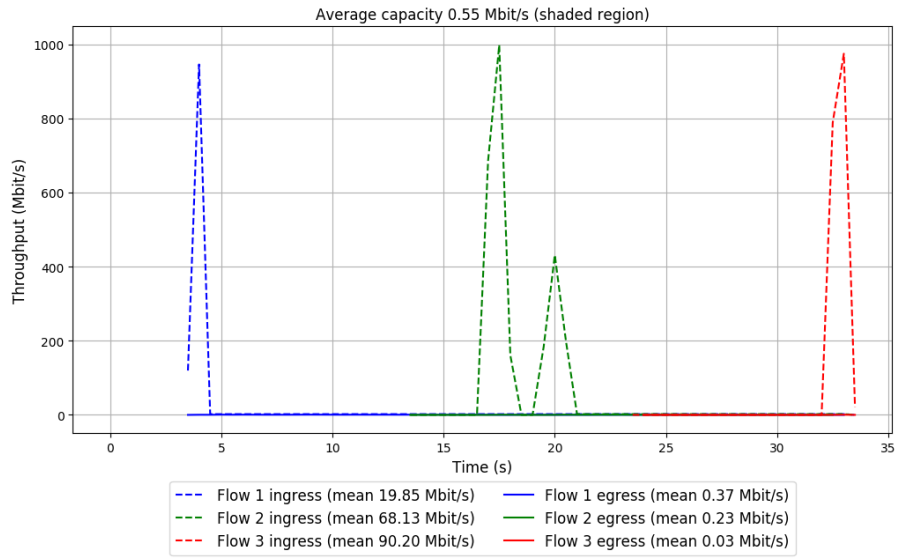
-- Flow 3:

Average throughput: 0.03 Mbit/s

95th percentile per-packet one-way delay: 410.427 ms

Loss rate: 99.97%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 06:35:28

End at: 2018-02-16 06:35:58

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 448.245 ms

Loss rate: 99.45%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 443.447 ms

Loss rate: 98.22%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 466.363 ms

Loss rate: 99.64%

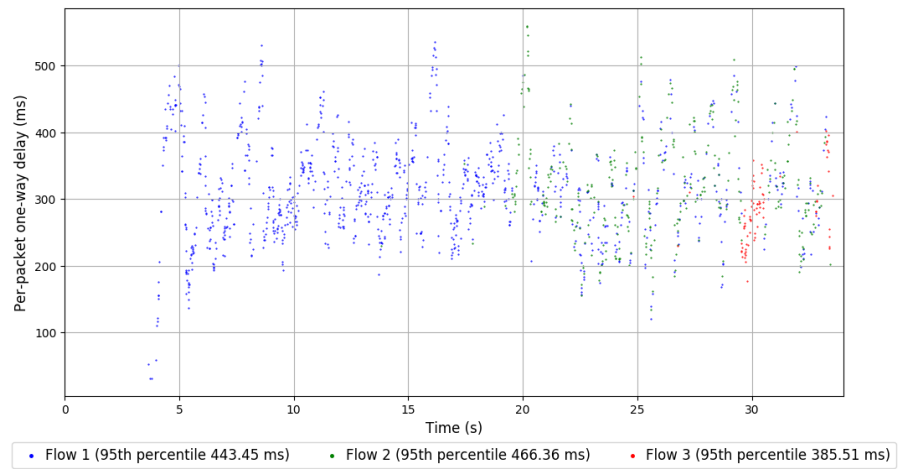
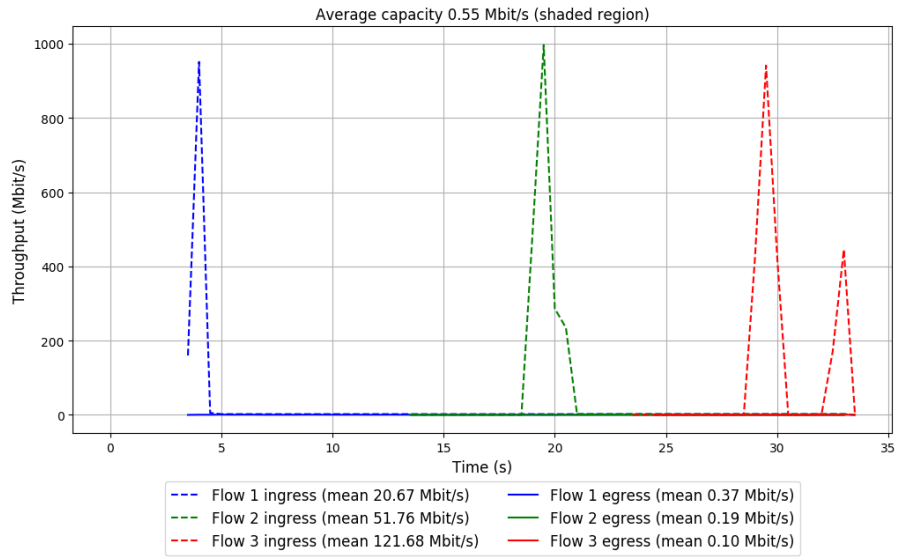
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 385.513 ms

Loss rate: 99.93%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 06:45:50

End at: 2018-02-16 06:46:20

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 454.302 ms

Loss rate: 98.70%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 450.169 ms

Loss rate: 98.17%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 455.301 ms

Loss rate: 99.20%

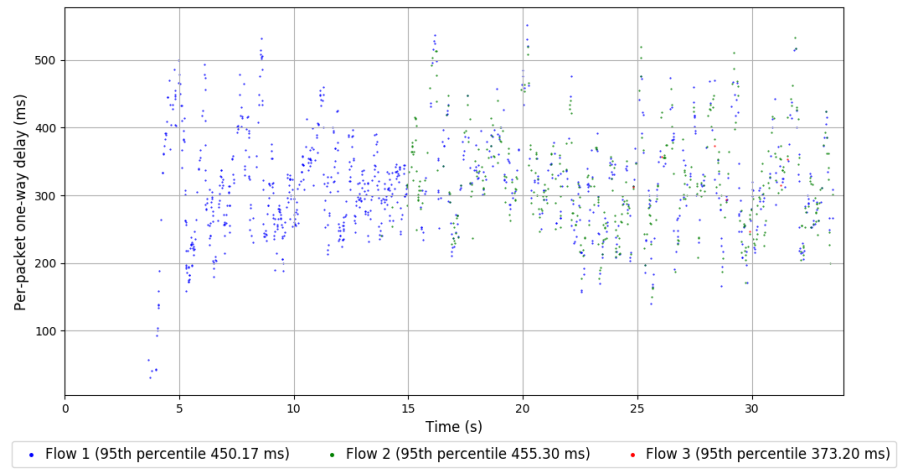
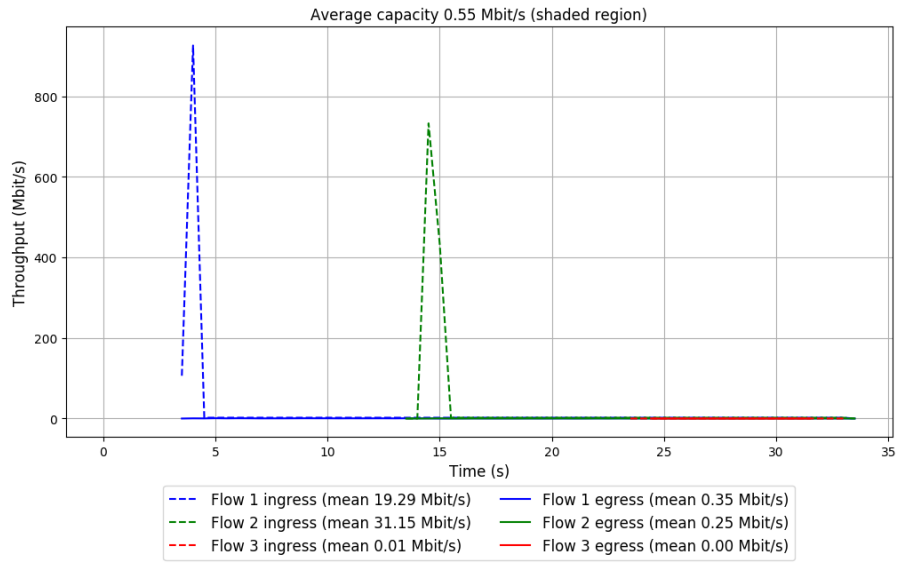
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 373.197 ms

Loss rate: 88.48%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 05:10:11

End at: 2018-02-16 05:10:41

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.45 Mbit/s (81.8% utilization)

95th percentile per-packet one-way delay: 298.987 ms

Loss rate: 11.08%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 251.883 ms

Loss rate: 8.37%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 306.347 ms

Loss rate: 13.22%

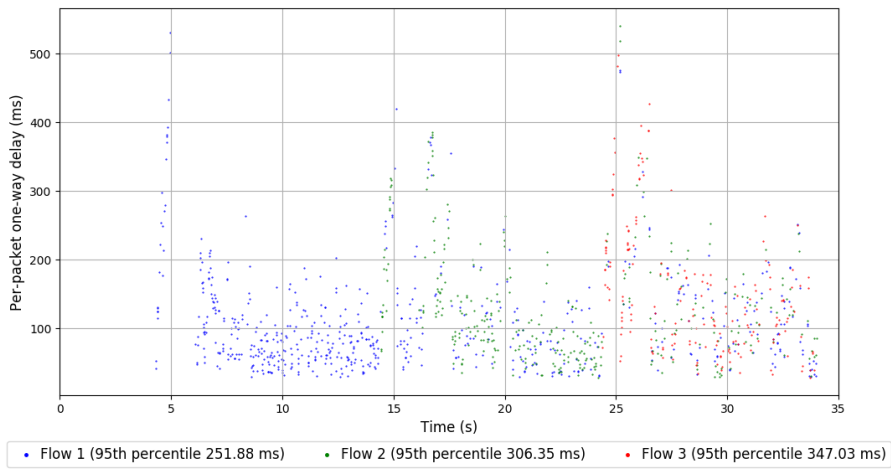
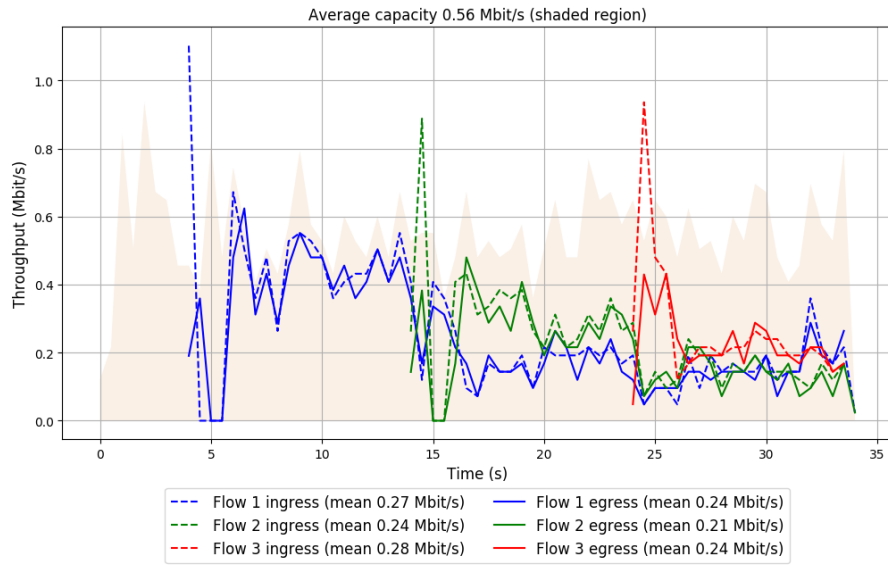
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 347.029 ms

Loss rate: 15.38%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 05:20:32

End at: 2018-02-16 05:21:02

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (82.9% utilization)

95th percentile per-packet one-way delay: 308.143 ms

Loss rate: 11.20%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 277.410 ms

Loss rate: 8.83%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 345.097 ms

Loss rate: 14.70%

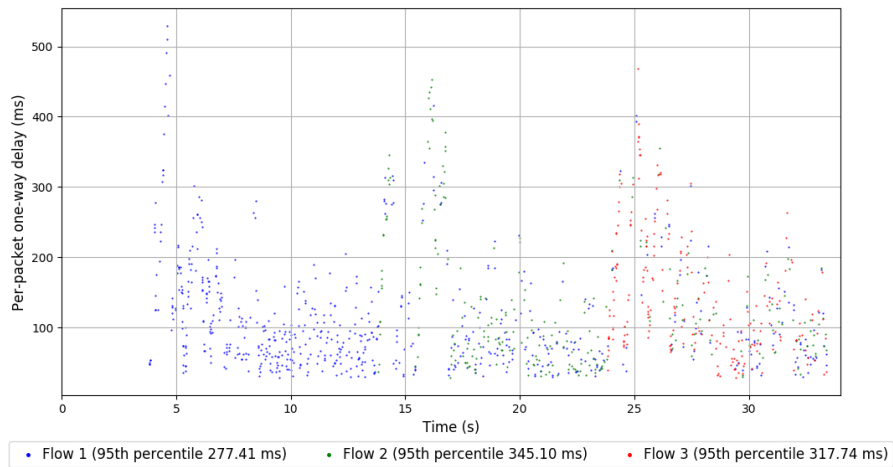
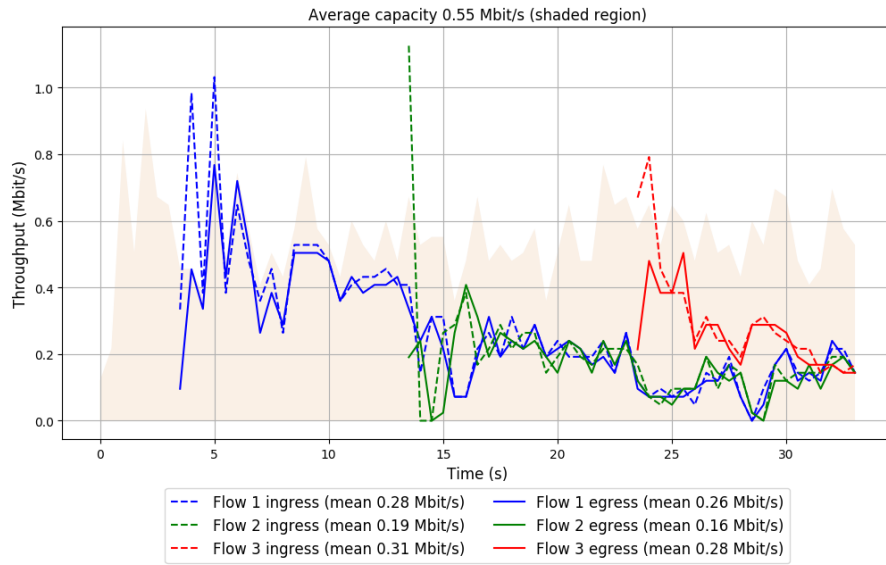
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 317.743 ms

Loss rate: 13.44%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 05:30:54

End at: 2018-02-16 05:31:24

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (77.1% utilization)

95th percentile per-packet one-way delay: 330.815 ms

Loss rate: 13.47%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 302.598 ms

Loss rate: 8.51%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 350.672 ms

Loss rate: 13.33%

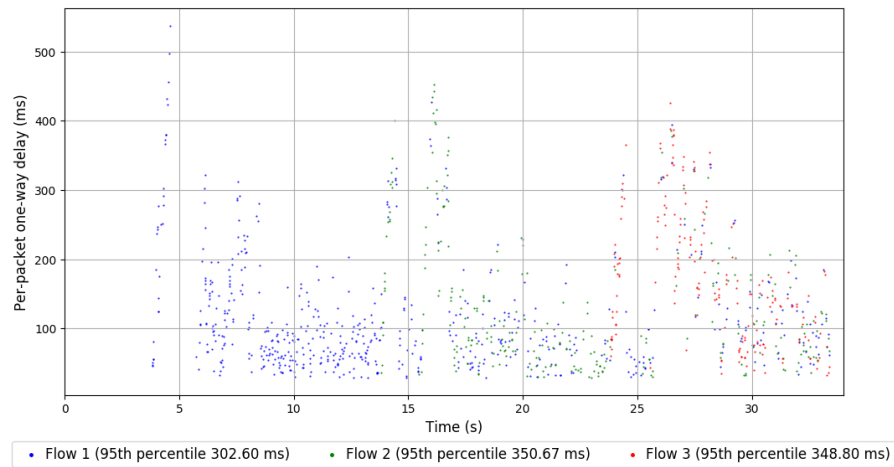
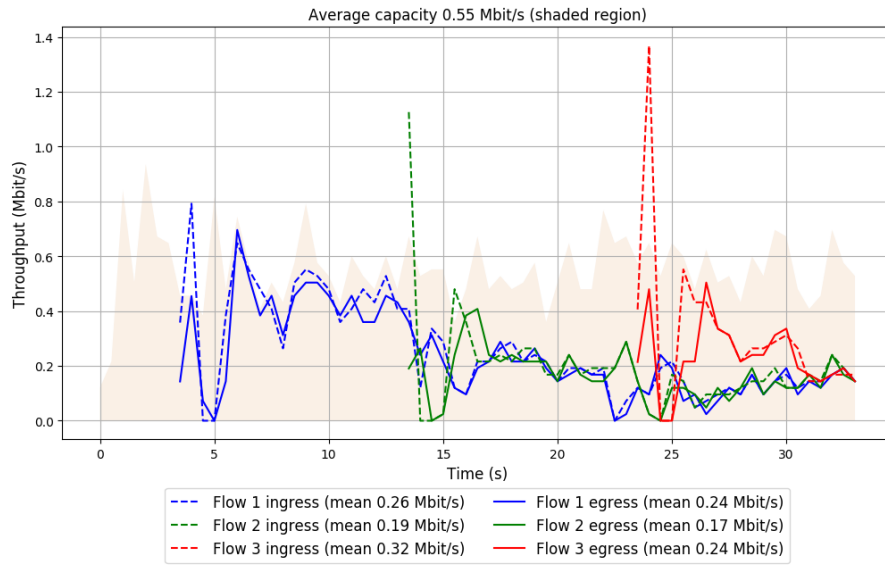
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 348.796 ms

Loss rate: 25.78%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-16 05:41:15

End at: 2018-02-16 05:41:45

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.45 Mbit/s (80.7% utilization)

95th percentile per-packet one-way delay: 310.216 ms

Loss rate: 12.11%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 276.829 ms

Loss rate: 9.10%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 331.574 ms

Loss rate: 13.57%

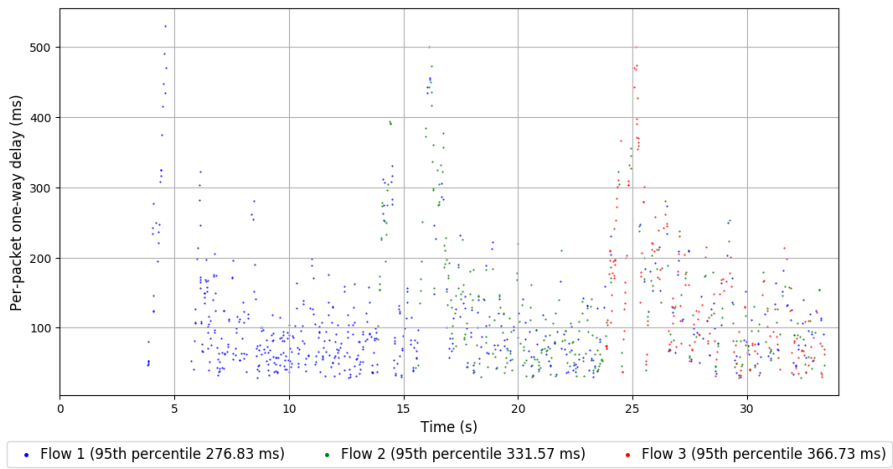
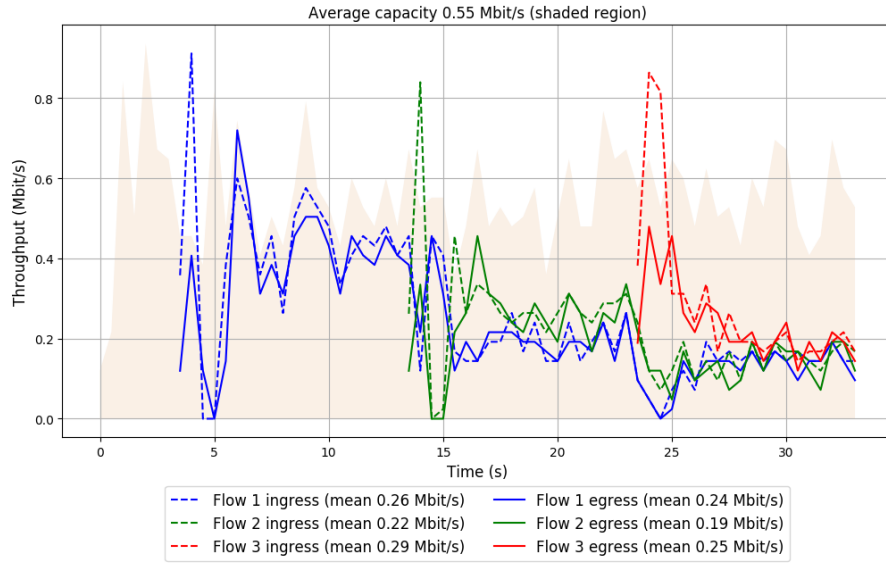
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 366.725 ms

Loss rate: 18.10%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-16 05:51:38

End at: 2018-02-16 05:52:08

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.45 Mbit/s (80.8% utilization)

95th percentile per-packet one-way delay: 315.387 ms

Loss rate: 9.34%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 261.737 ms

Loss rate: 7.93%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 313.906 ms

Loss rate: 8.79%

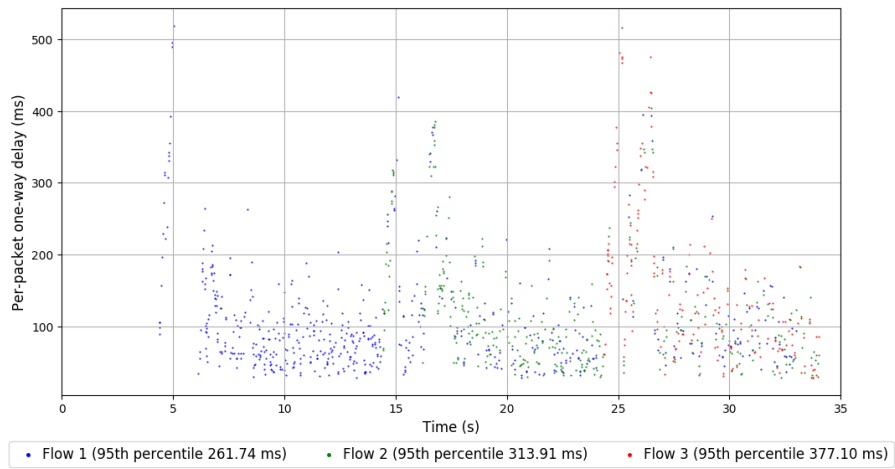
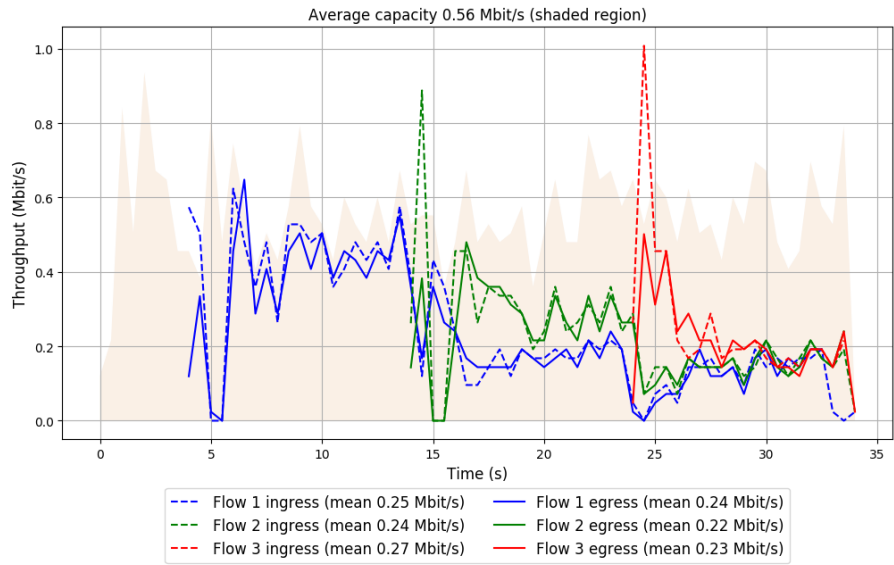
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 377.099 ms

Loss rate: 14.36%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 06:02:01

End at: 2018-02-16 06:02:31

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (78.7% utilization)

95th percentile per-packet one-way delay: 309.276 ms

Loss rate: 11.59%

-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 279.466 ms

Loss rate: 8.10%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 313.003 ms

Loss rate: 12.48%

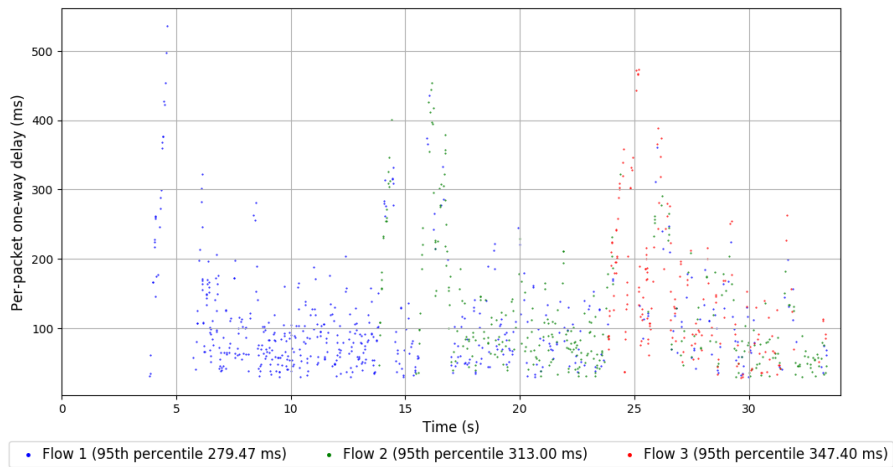
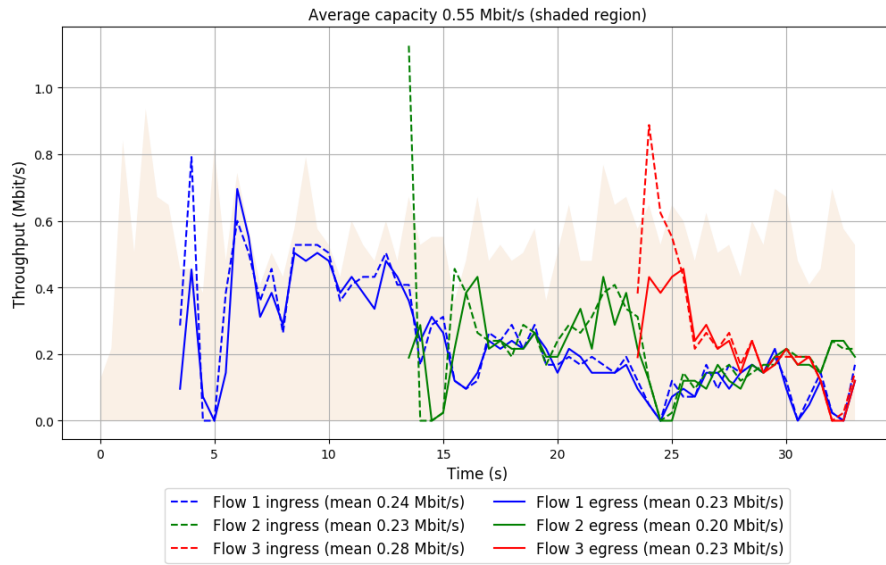
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 347.398 ms

Loss rate: 19.39%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-16 06:12:23

End at: 2018-02-16 06:12:53

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.44 Mbit/s (79.3% utilization)

95th percentile per-packet one-way delay: 282.864 ms

Loss rate: 12.37%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 262.379 ms

Loss rate: 9.93%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 270.140 ms

Loss rate: 12.71%

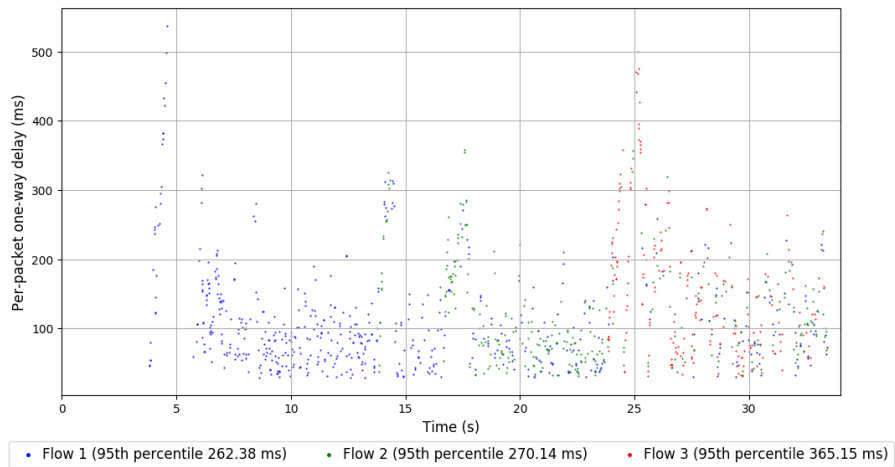
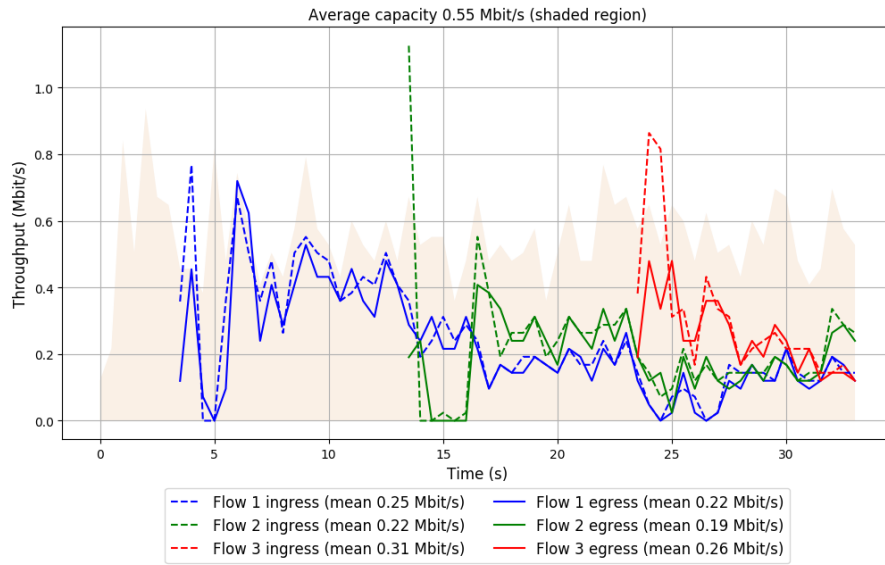
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 365.153 ms

Loss rate: 17.79%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 06:22:46

End at: 2018-02-16 06:23:16

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.43 Mbit/s (77.7% utilization)

95th percentile per-packet one-way delay: 310.626 ms

Loss rate: 11.94%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 286.510 ms

Loss rate: 9.15%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 326.421 ms

Loss rate: 11.33%

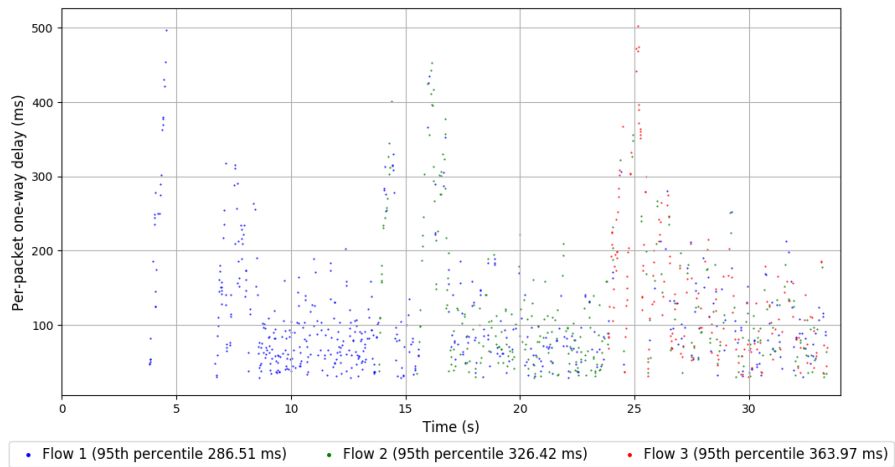
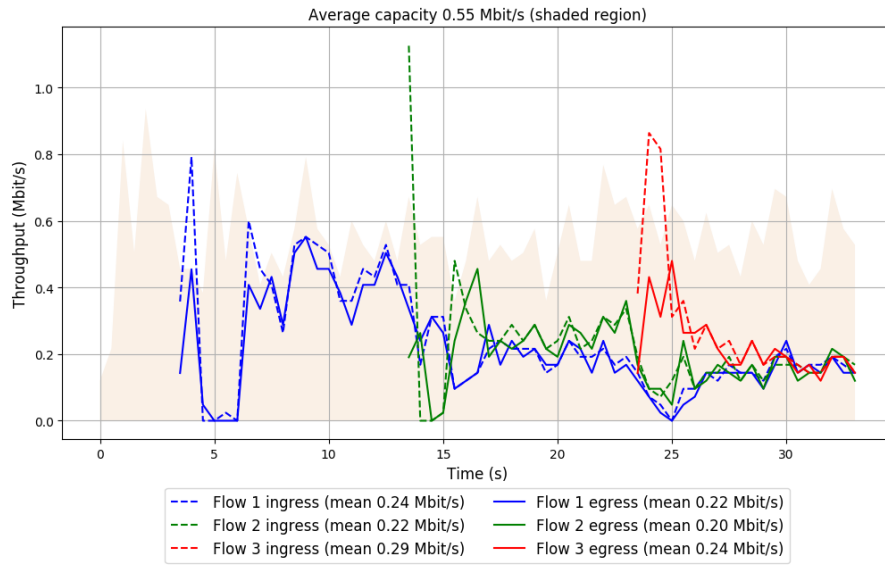
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 363.968 ms

Loss rate: 20.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 06:33:10

End at: 2018-02-16 06:33:40

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.46 Mbit/s (82.8% utilization)

95th percentile per-packet one-way delay: 304.998 ms

Loss rate: 11.29%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 275.184 ms

Loss rate: 8.36%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 309.902 ms

Loss rate: 11.65%

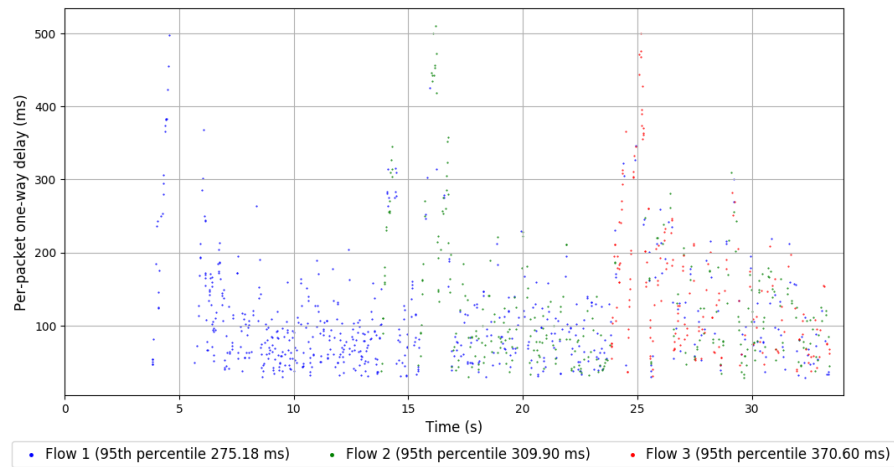
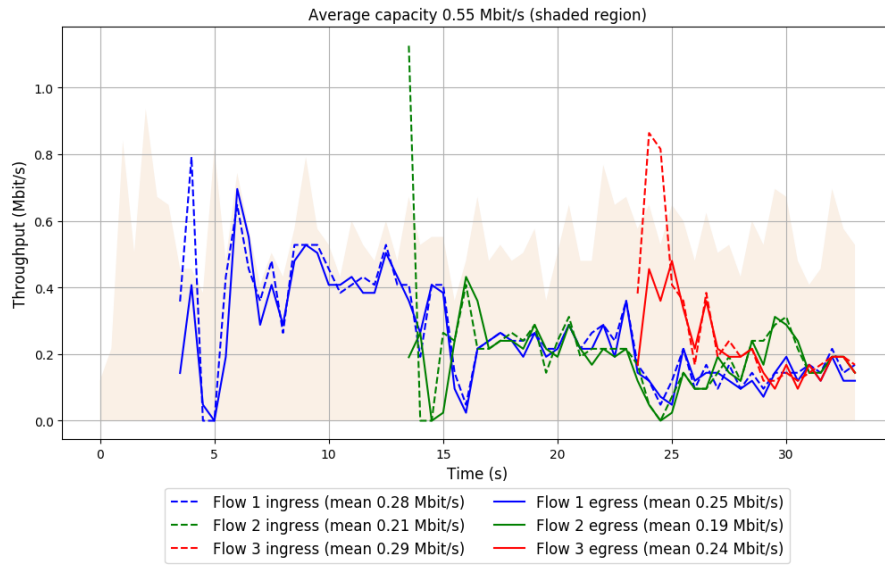
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 370.595 ms

Loss rate: 19.31%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 06:43:33

End at: 2018-02-16 06:44:03

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.44 Mbit/s (80.5% utilization)

95th percentile per-packet one-way delay: 317.077 ms

Loss rate: 14.00%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 283.050 ms

Loss rate: 8.18%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 344.794 ms

Loss rate: 13.34%

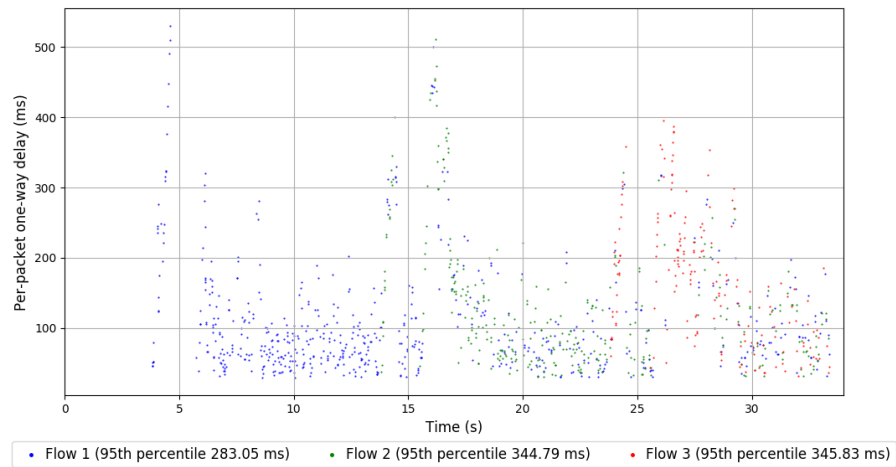
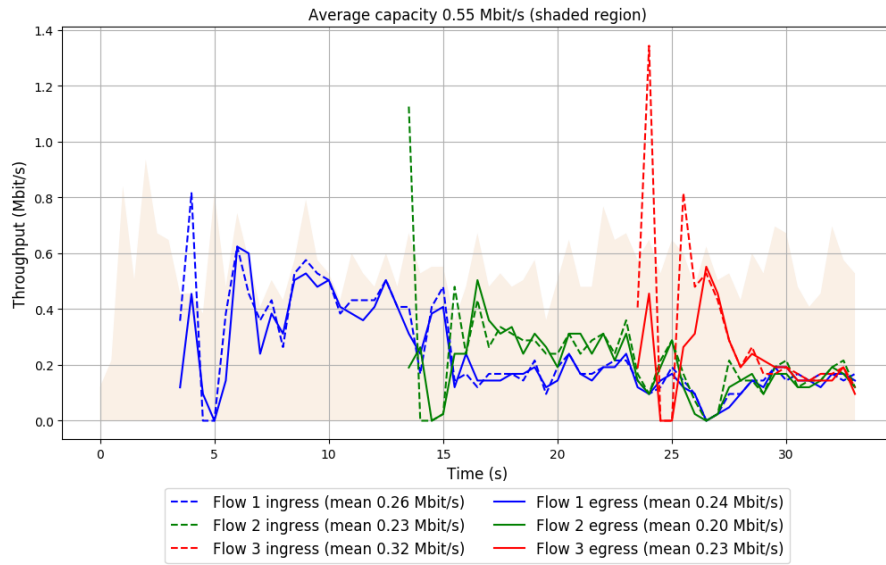
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 345.827 ms

Loss rate: 29.23%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 05:13:04

End at: 2018-02-16 05:13:34

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.0% utilization)

95th percentile per-packet one-way delay: 460.093 ms

Loss rate: 79.62%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 439.366 ms

Loss rate: 75.94%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 472.539 ms

Loss rate: 83.31%

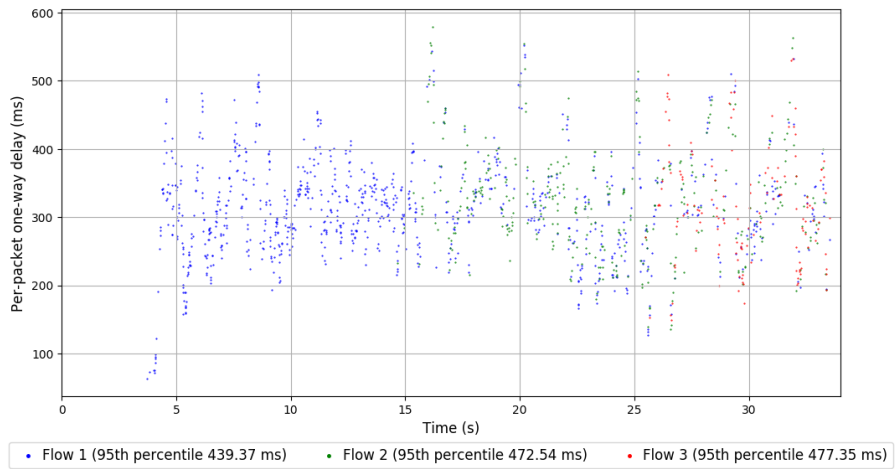
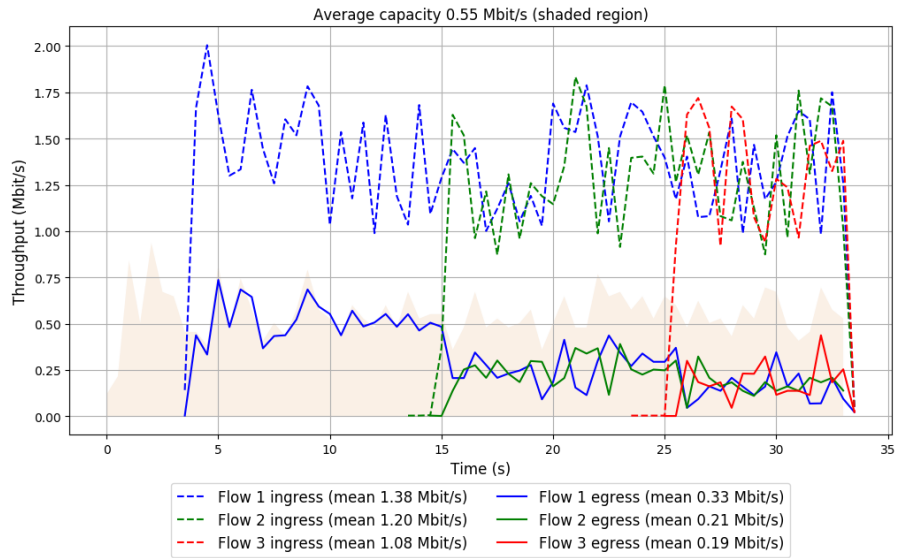
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 477.345 ms

Loss rate: 85.60%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 05:23:26

End at: 2018-02-16 05:23:56

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.9% utilization)

95th percentile per-packet one-way delay: 459.620 ms

Loss rate: 79.55%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 448.923 ms

Loss rate: 75.63%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 467.604 ms

Loss rate: 82.60%

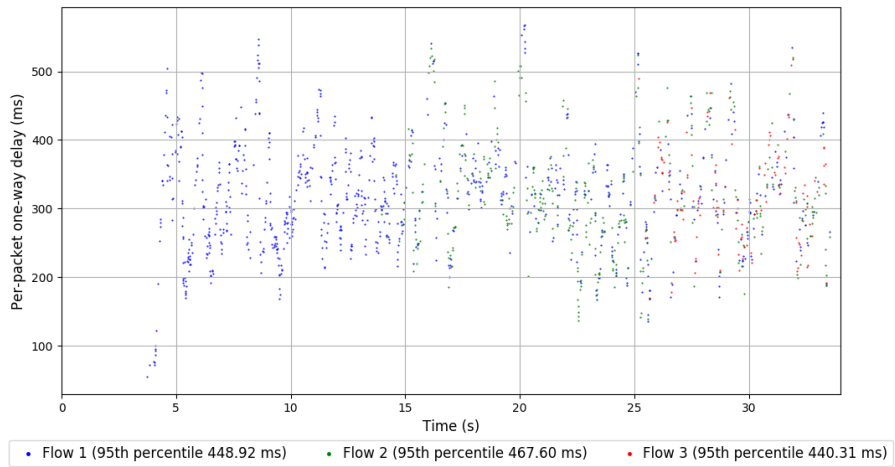
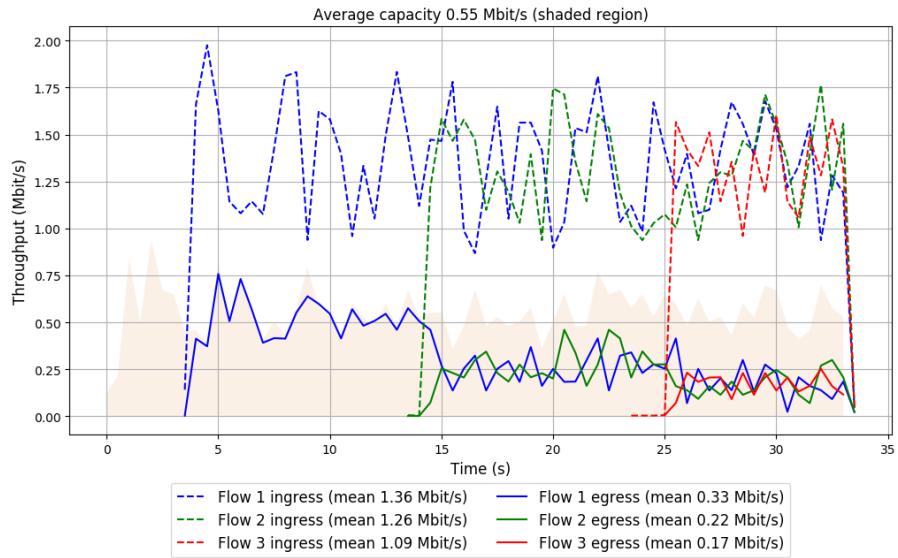
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 440.314 ms

Loss rate: 87.20%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 05:33:46

End at: 2018-02-16 05:34:16

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.8% utilization)

95th percentile per-packet one-way delay: 469.173 ms

Loss rate: 79.88%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 469.861 ms

Loss rate: 76.12%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 452.885 ms

Loss rate: 83.16%

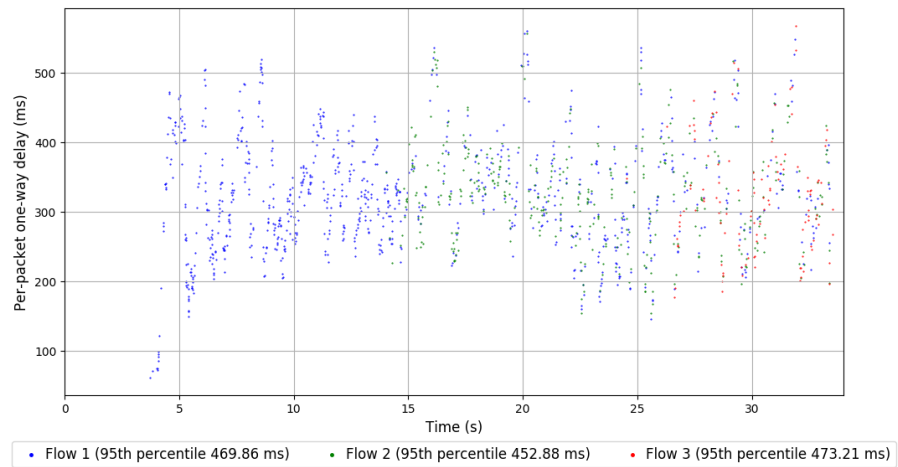
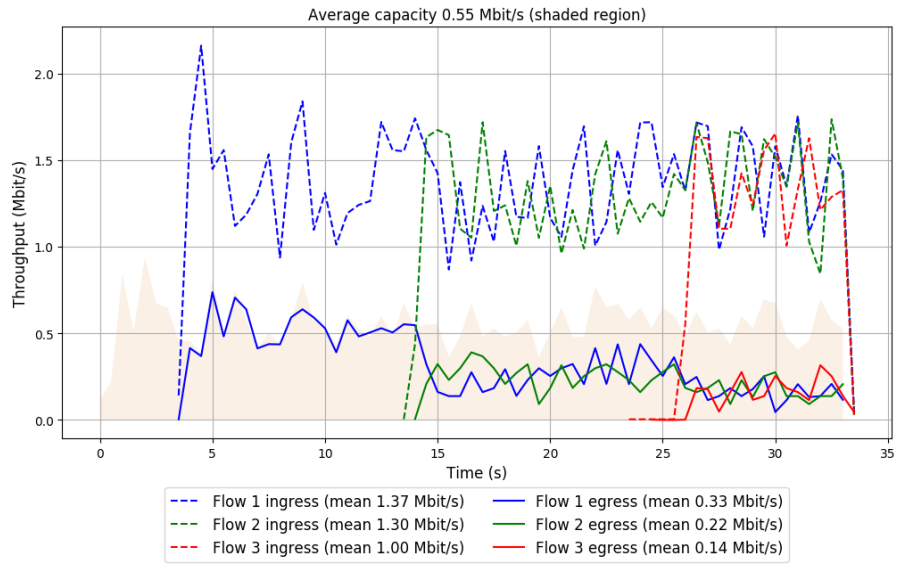
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 473.208 ms

Loss rate: 86.96%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 05:44:09

End at: 2018-02-16 05:44:39

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.4% utilization)

95th percentile per-packet one-way delay: 463.929 ms

Loss rate: 79.40%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 444.575 ms

Loss rate: 74.97%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 471.369 ms

Loss rate: 82.44%

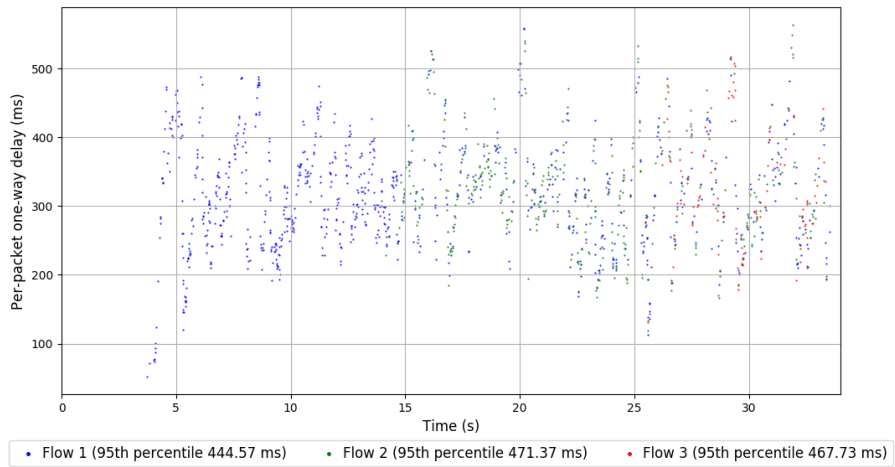
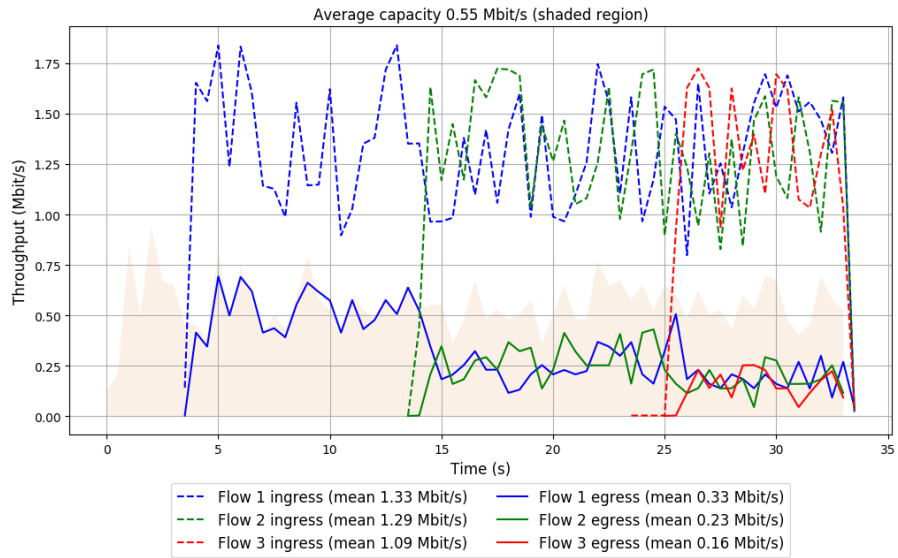
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 467.728 ms

Loss rate: 88.53%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-16 05:54:31

End at: 2018-02-16 05:55:01

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (95.1% utilization)

95th percentile per-packet one-way delay: 457.994 ms

Loss rate: 79.53%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 448.628 ms

Loss rate: 74.70%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 473.579 ms

Loss rate: 83.44%

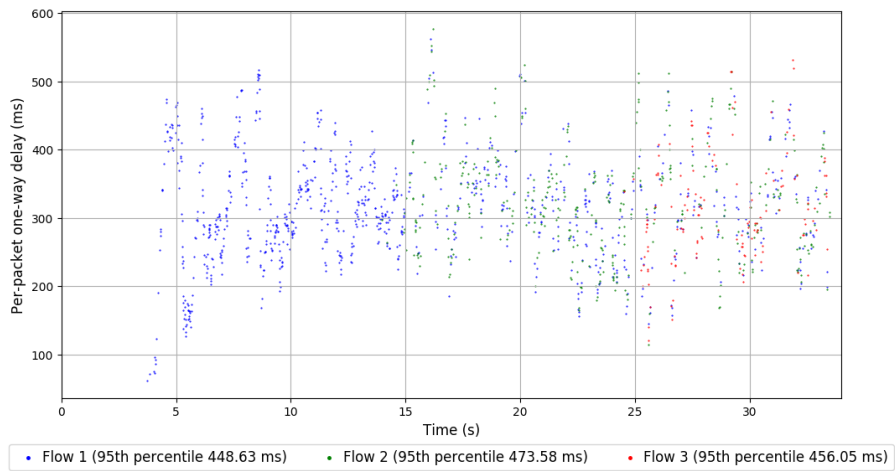
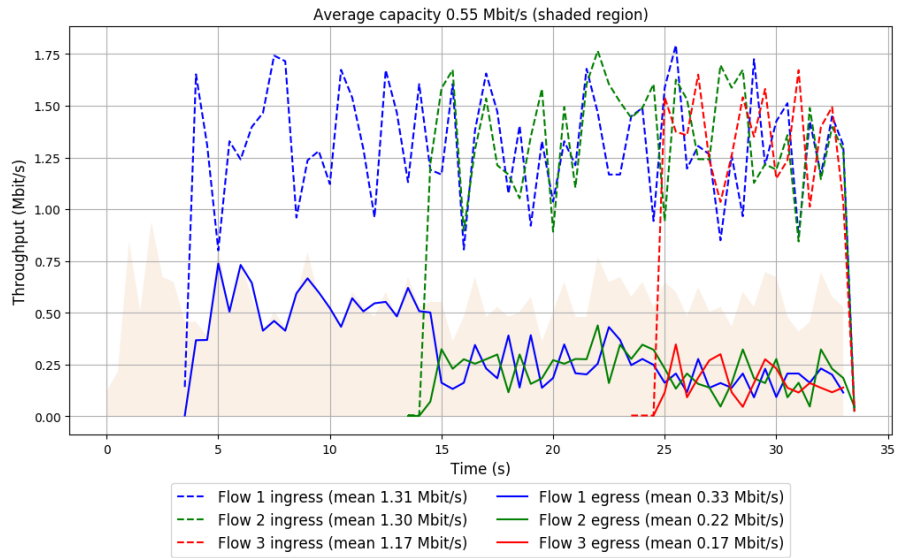
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 456.049 ms

Loss rate: 87.14%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-16 06:04:54

End at: 2018-02-16 06:05:24

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.9% utilization)

95th percentile per-packet one-way delay: 451.080 ms

Loss rate: 80.24%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 439.442 ms

Loss rate: 76.93%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 475.044 ms

Loss rate: 82.68%

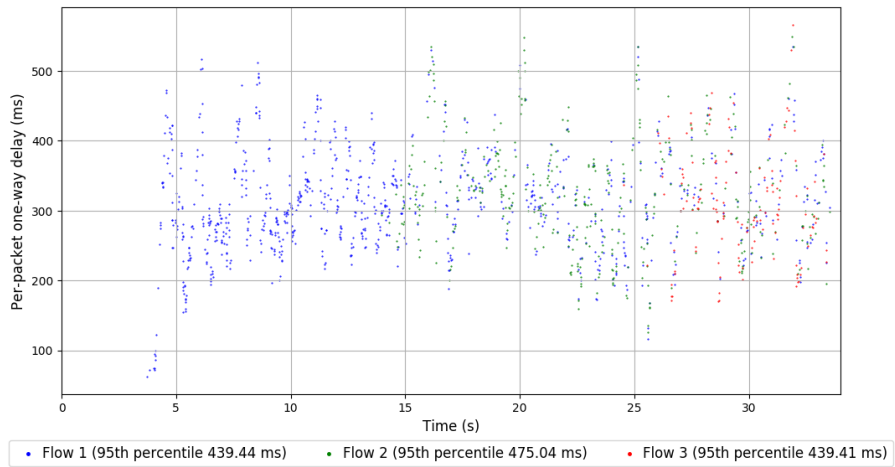
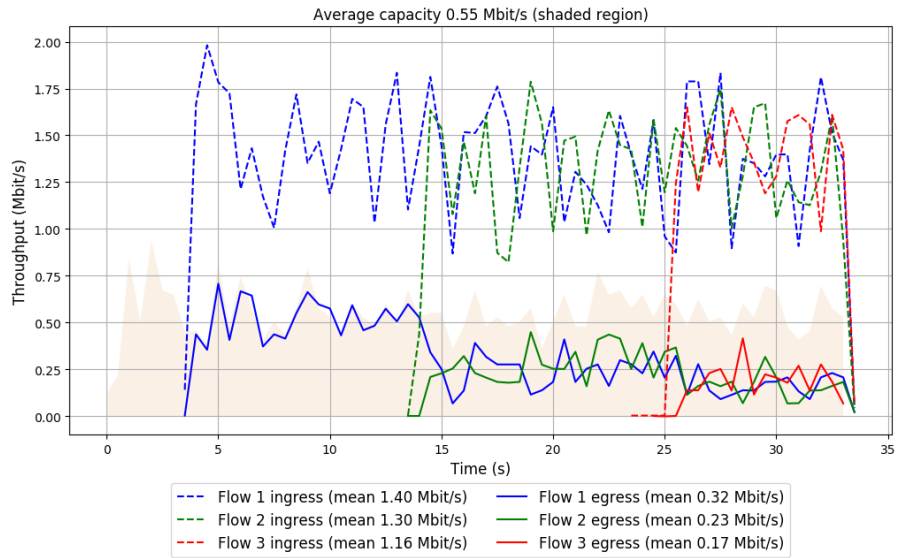
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 439.414 ms

Loss rate: 86.87%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-16 06:15:16

End at: 2018-02-16 06:15:46

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 452.203 ms

Loss rate: 79.15%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 442.850 ms

Loss rate: 73.84%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 458.533 ms

Loss rate: 84.07%

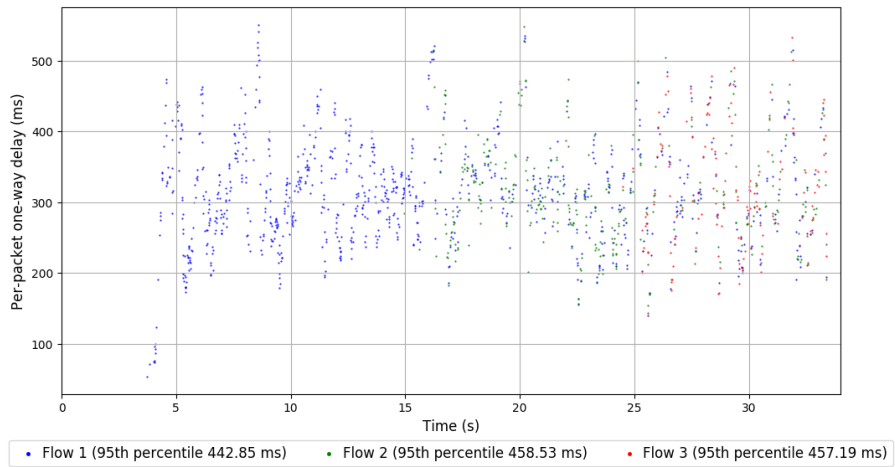
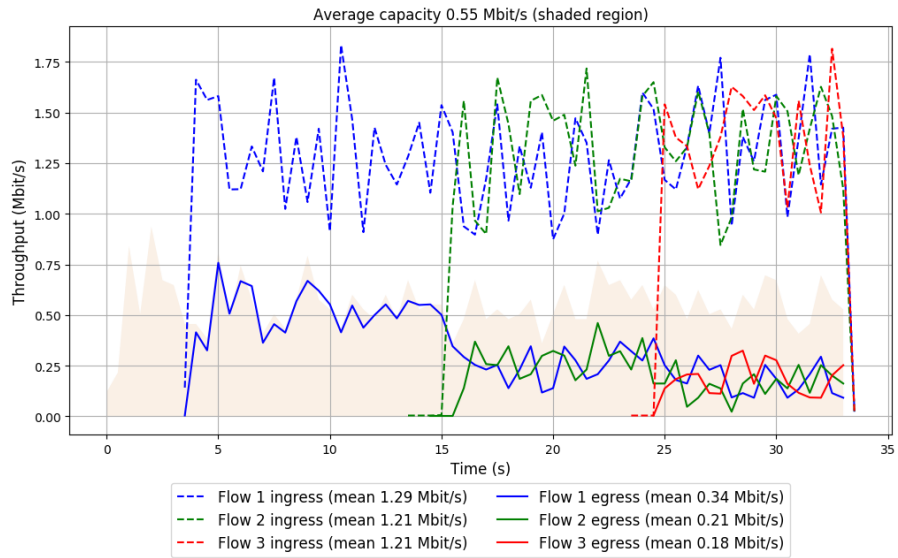
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 457.193 ms

Loss rate: 86.37%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 06:25:40

End at: 2018-02-16 06:26:10

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.1% utilization)

95th percentile per-packet one-way delay: 461.957 ms

Loss rate: 76.40%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 463.668 ms

Loss rate: 73.87%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 439.979 ms

Loss rate: 80.53%

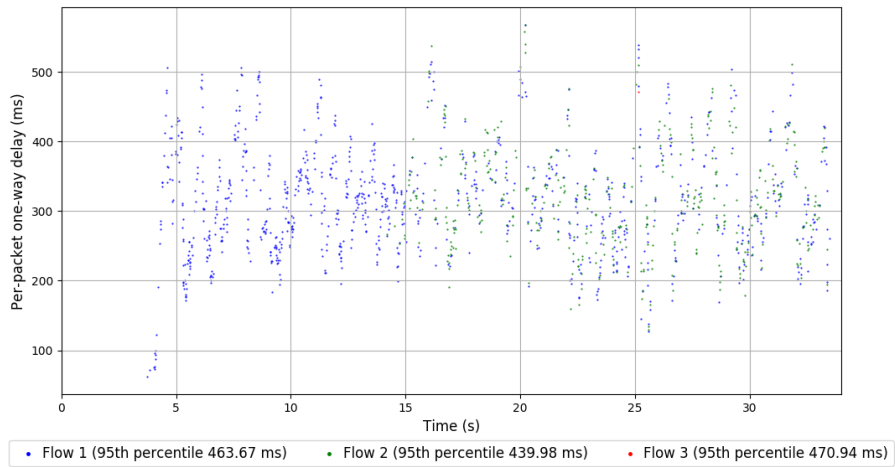
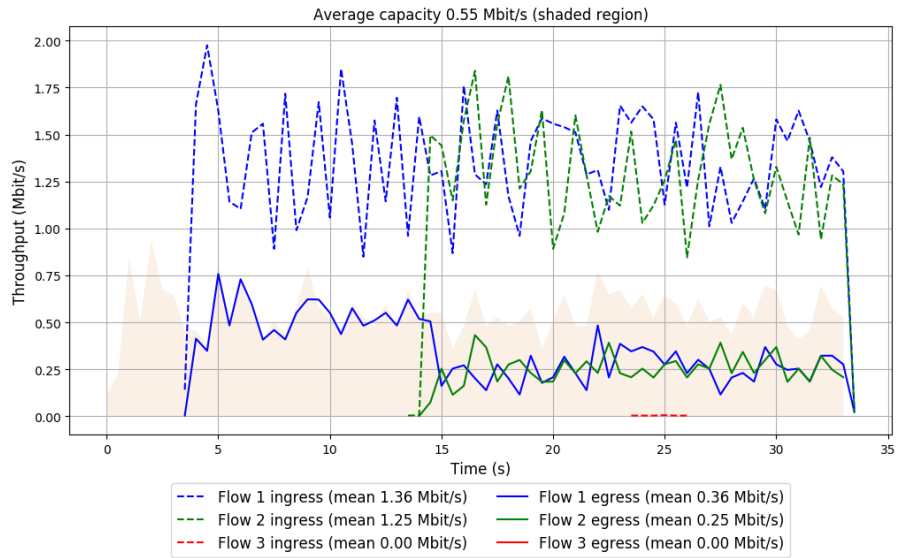
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 470.936 ms

Loss rate: 92.31%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 06:36:04

End at: 2018-02-16 06:36:34

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.2% utilization)

95th percentile per-packet one-way delay: 457.523 ms

Loss rate: 76.33%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 449.393 ms

Loss rate: 73.49%

-- Flow 2:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 466.751 ms

Loss rate: 80.58%

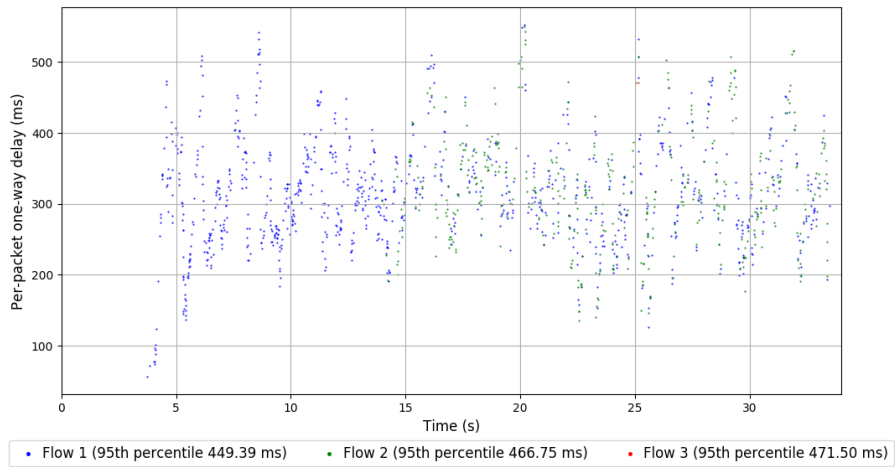
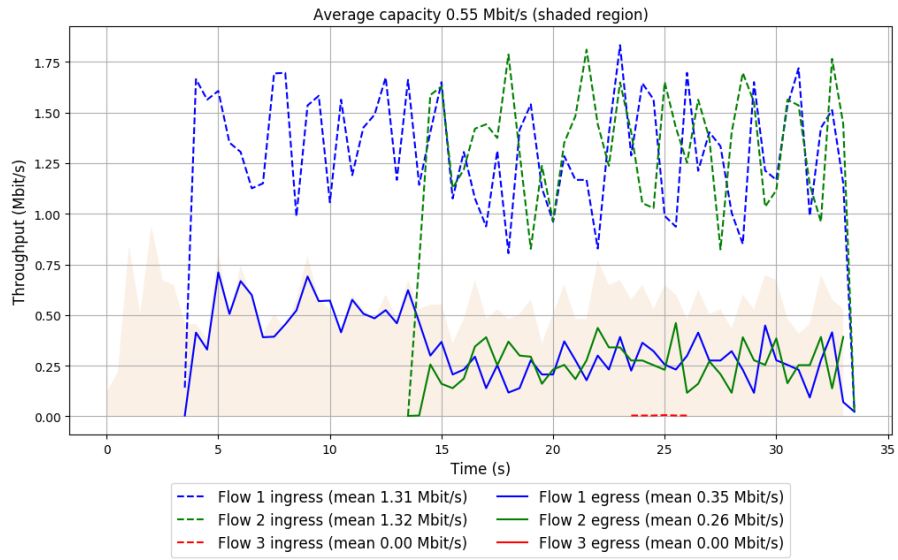
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 471.497 ms

Loss rate: 92.31%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 06:46:25

End at: 2018-02-16 06:46:55

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.0% utilization)

95th percentile per-packet one-way delay: 462.161 ms

Loss rate: 79.38%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 462.161 ms

Loss rate: 74.74%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 460.377 ms

Loss rate: 83.74%

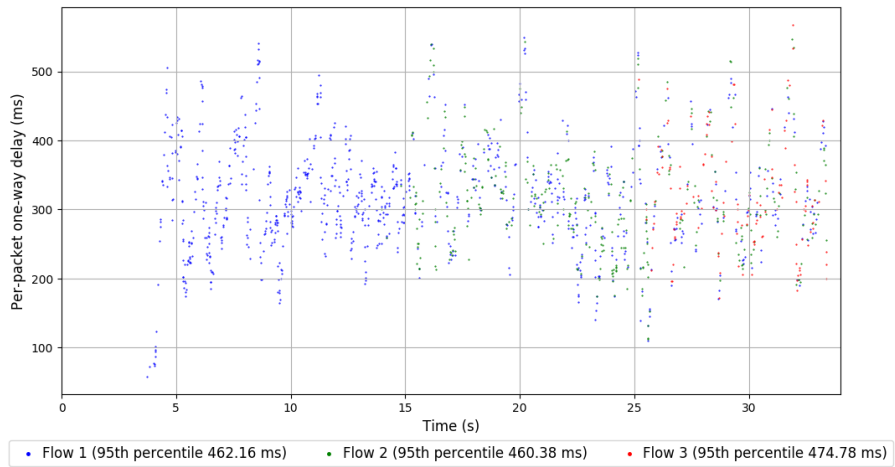
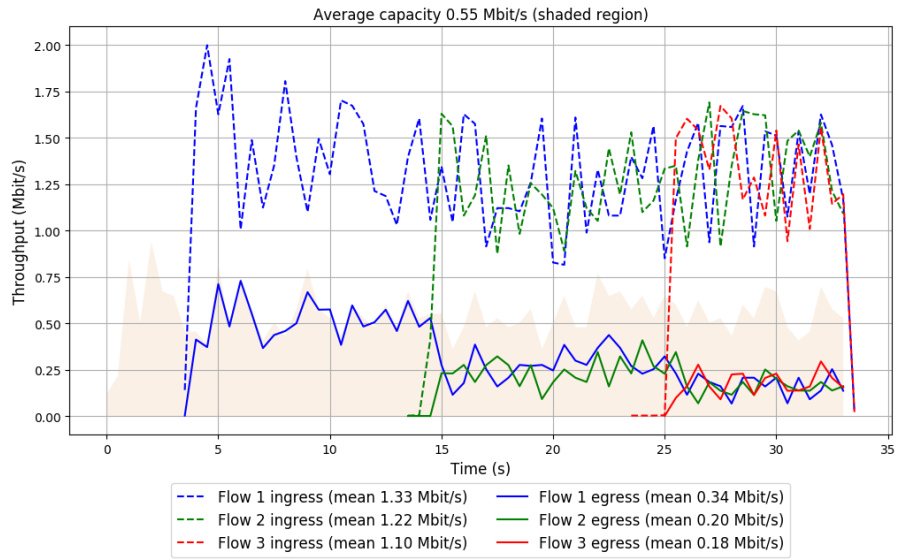
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 474.778 ms

Loss rate: 86.64%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 05:17:05

End at: 2018-02-16 05:17:35

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 459.279 ms

Loss rate: 79.94%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 453.668 ms

Loss rate: 76.00%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 452.789 ms

Loss rate: 82.69%

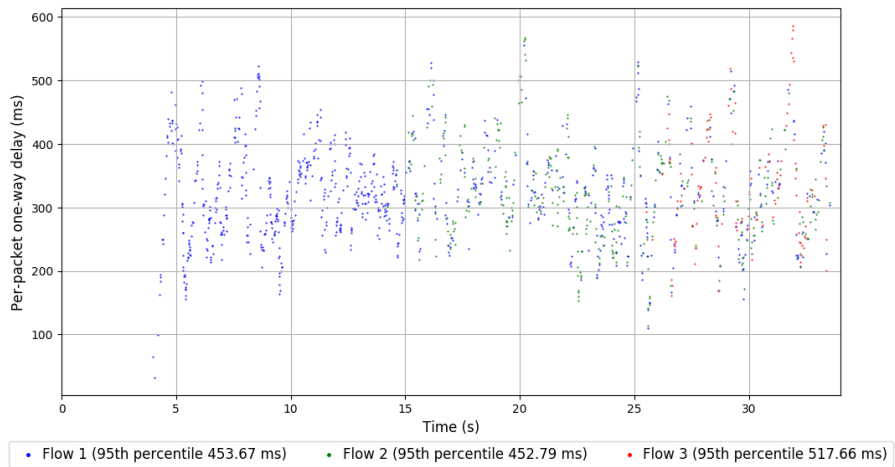
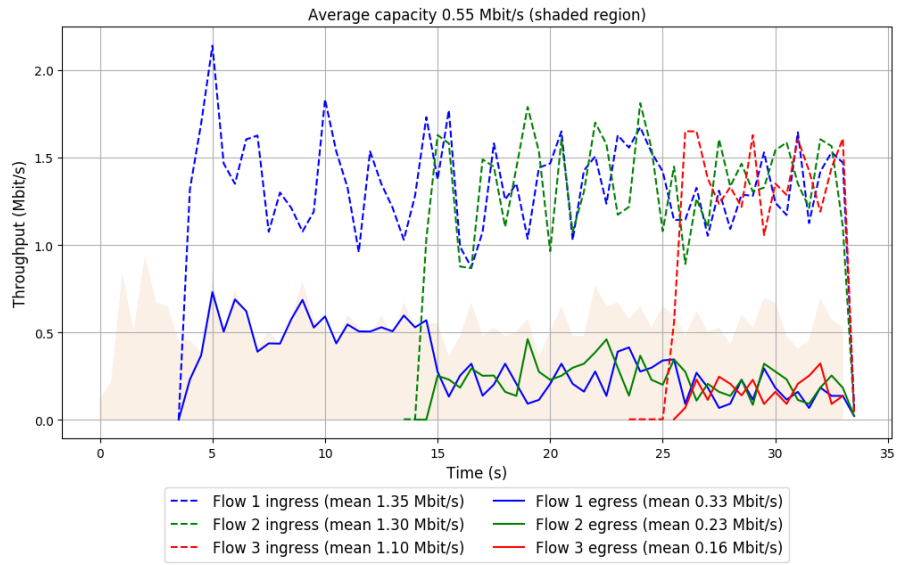
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 517.665 ms

Loss rate: 88.00%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 05:27:27

End at: 2018-02-16 05:27:57

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.1% utilization)

95th percentile per-packet one-way delay: 459.920 ms

Loss rate: 76.45%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 444.611 ms

Loss rate: 73.56%

-- Flow 2:

Average throughput: 0.25 Mbit/s

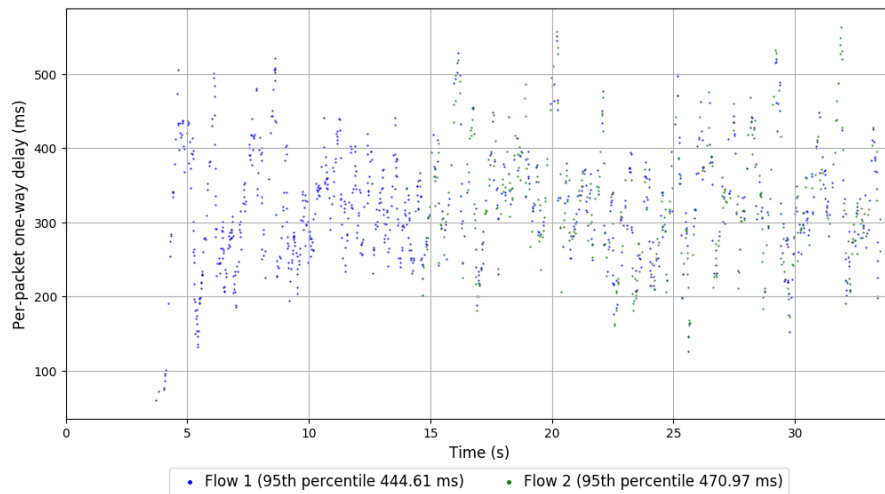
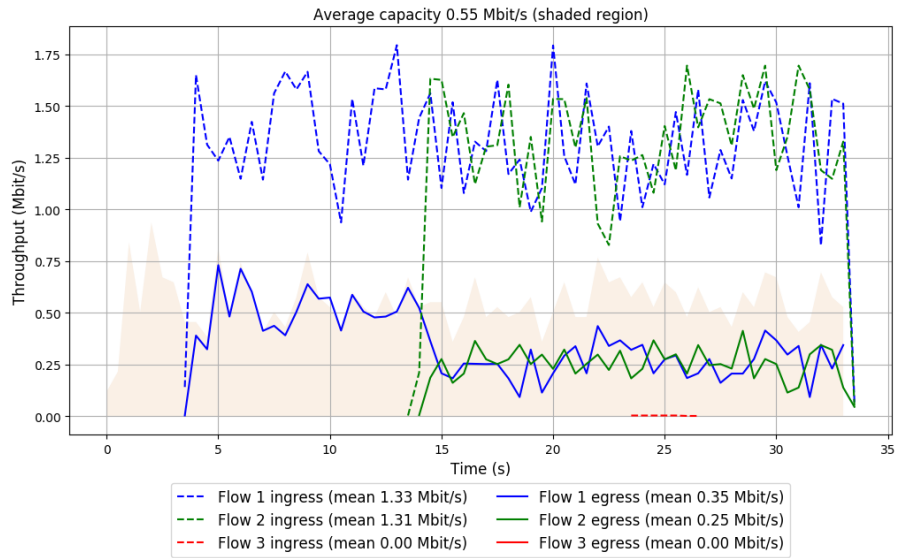
95th percentile per-packet one-way delay: 470.974 ms

Loss rate: 80.85%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 05:37:48

End at: 2018-02-16 05:38:18

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.3% utilization)

95th percentile per-packet one-way delay: 462.782 ms

Loss rate: 79.46%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 468.147 ms

Loss rate: 74.59%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 458.294 ms

Loss rate: 84.68%

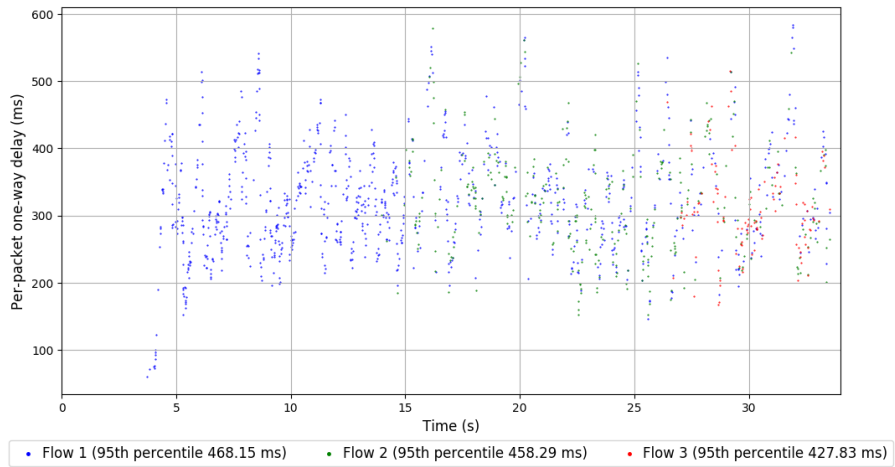
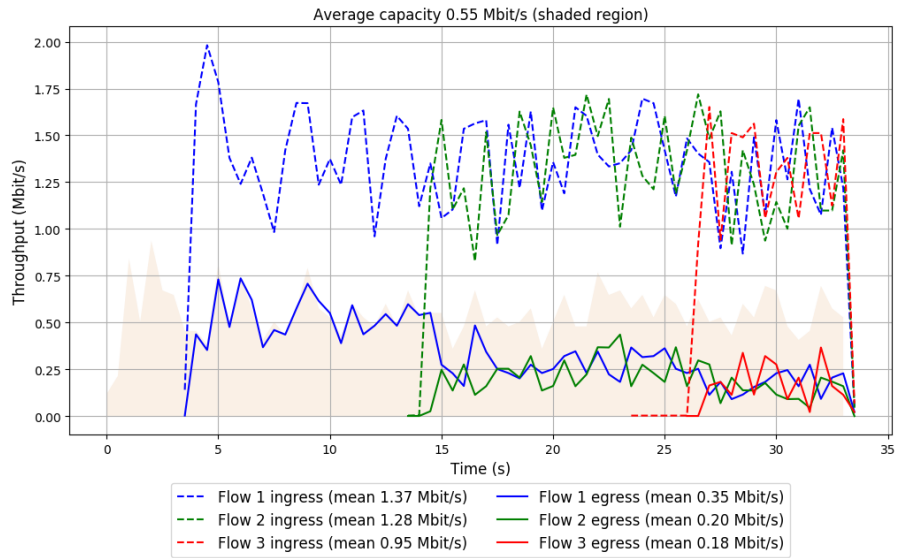
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 427.830 ms

Loss rate: 86.58%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 05:48:11

End at: 2018-02-16 05:48:41

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.52 Mbit/s (94.5% utilization)

95th percentile per-packet one-way delay: 452.117 ms

Loss rate: 79.17%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 445.912 ms

Loss rate: 74.06%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 466.180 ms

Loss rate: 83.83%

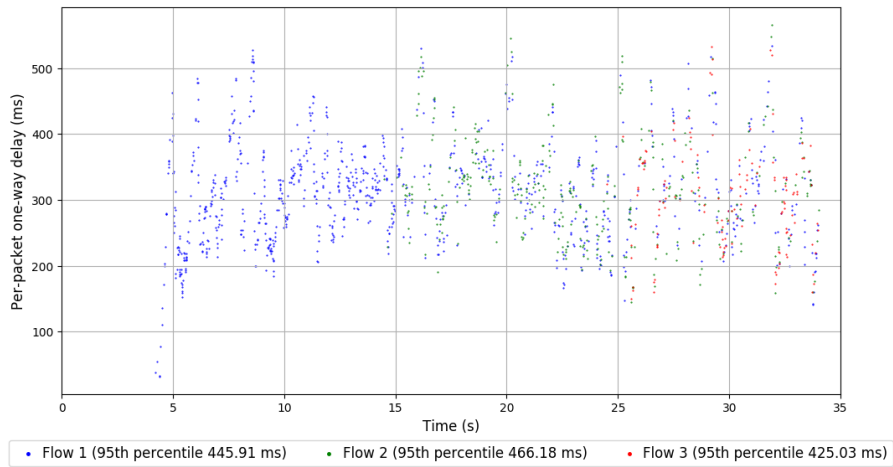
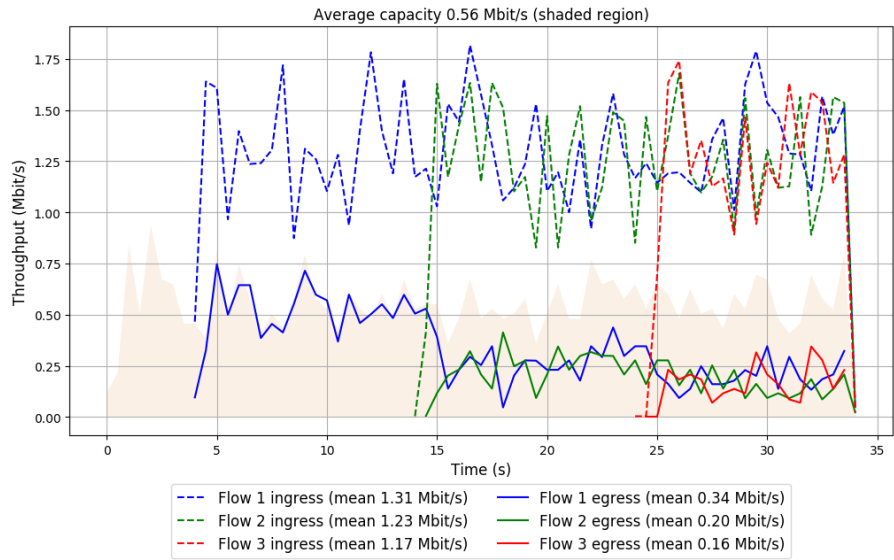
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 425.029 ms

Loss rate: 86.63%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-16 05:58:32

End at: 2018-02-16 05:59:02

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (93.5% utilization)

95th percentile per-packet one-way delay: 453.159 ms

Loss rate: 77.04%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 440.695 ms

Loss rate: 74.25%

-- Flow 2:

Average throughput: 0.24 Mbit/s

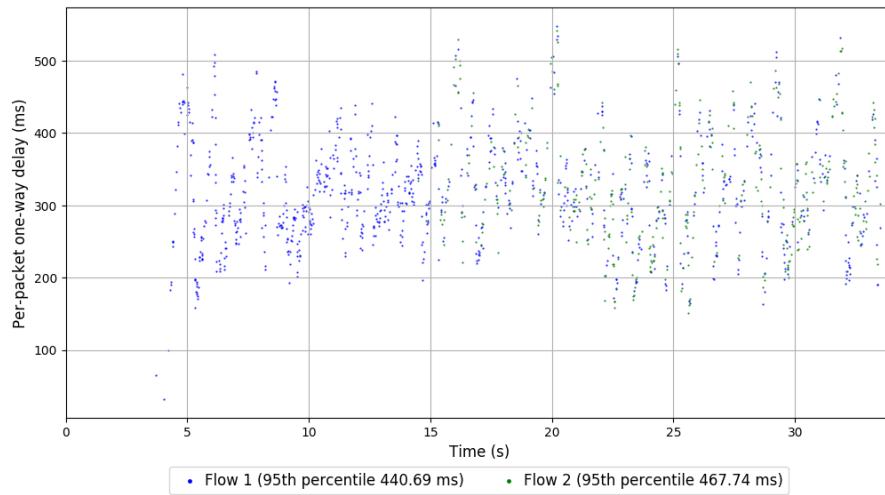
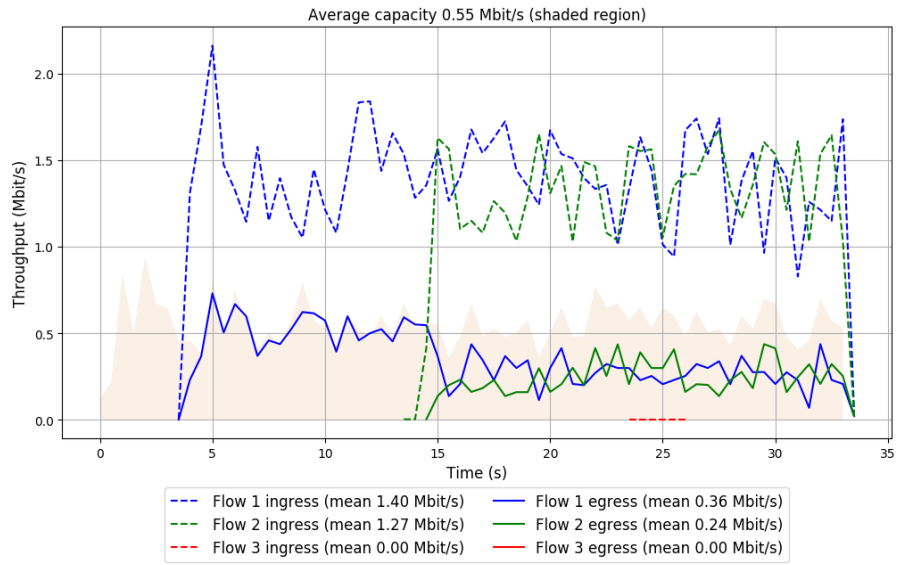
95th percentile per-packet one-way delay: 467.737 ms

Loss rate: 81.63%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-16 06:08:56

End at: 2018-02-16 06:09:26

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (93.3% utilization)

95th percentile per-packet one-way delay: 462.816 ms

Loss rate: 80.37%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 462.816 ms

Loss rate: 75.68%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 459.361 ms

Loss rate: 84.57%

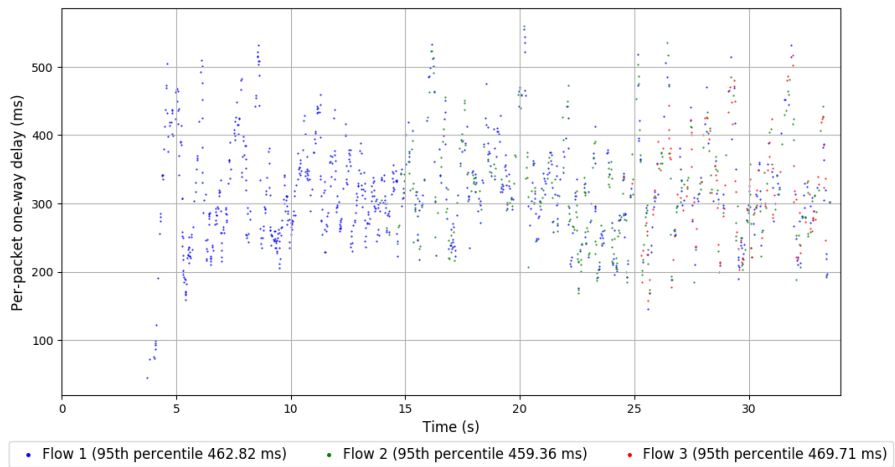
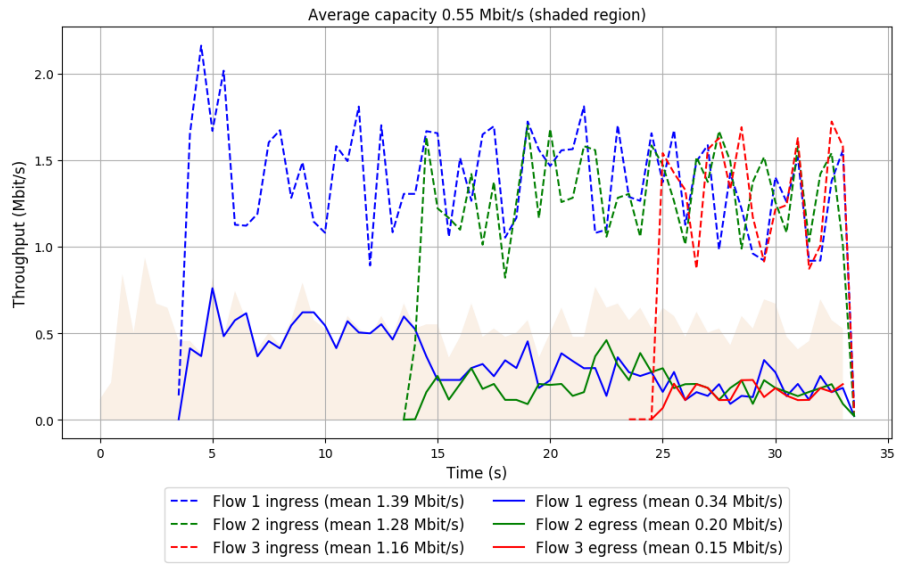
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 469.710 ms

Loss rate: 88.06%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-16 06:19:18

End at: 2018-02-16 06:19:48

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.56 Mbit/s

Average throughput: 0.52 Mbit/s (94.4% utilization)

95th percentile per-packet one-way delay: 452.378 ms

Loss rate: 78.90%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 448.047 ms

Loss rate: 73.23%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 462.626 ms

Loss rate: 83.47%

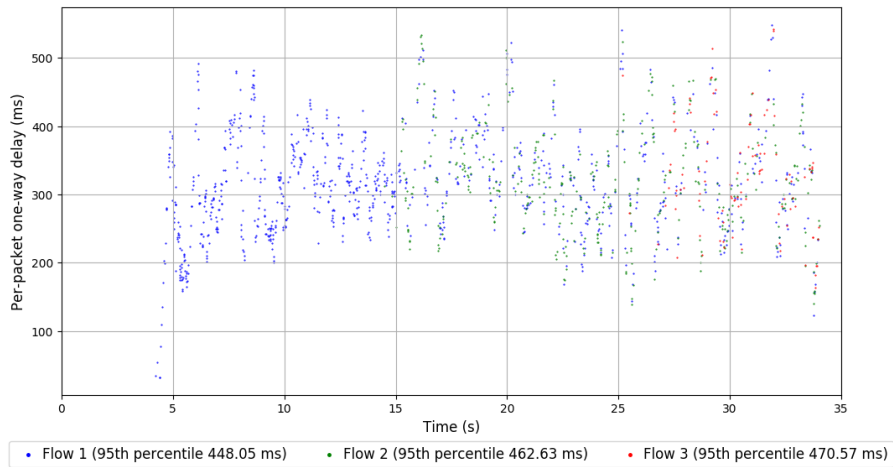
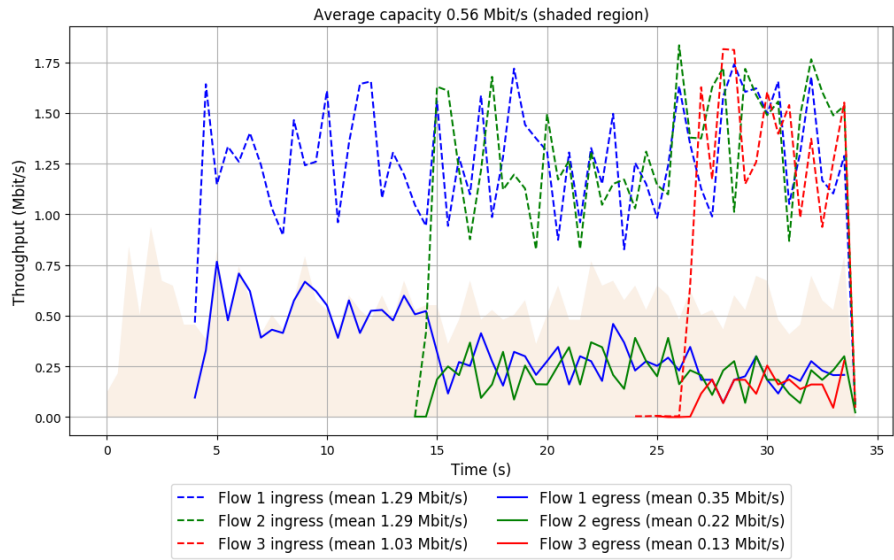
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 470.572 ms

Loss rate: 88.90%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-16 06:29:42

End at: 2018-02-16 06:30:12

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.6% utilization)

95th percentile per-packet one-way delay: 458.663 ms

Loss rate: 76.57%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 458.557 ms

Loss rate: 73.97%

-- Flow 2:

Average throughput: 0.25 Mbit/s

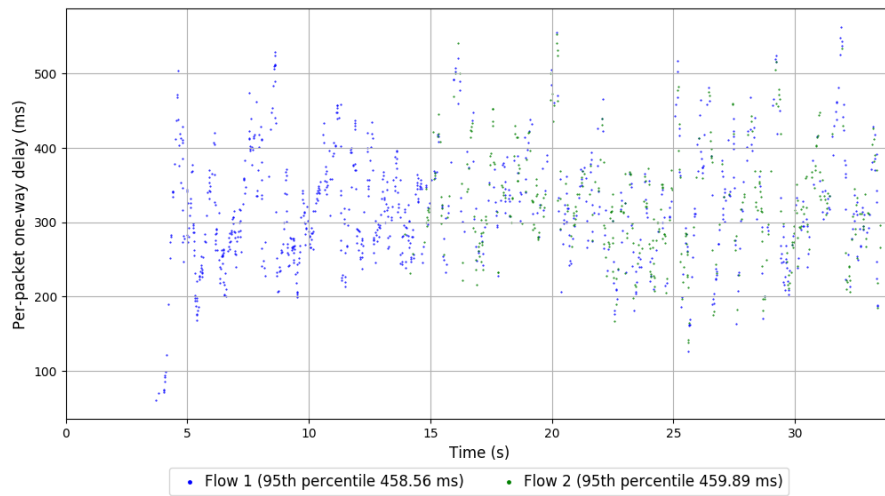
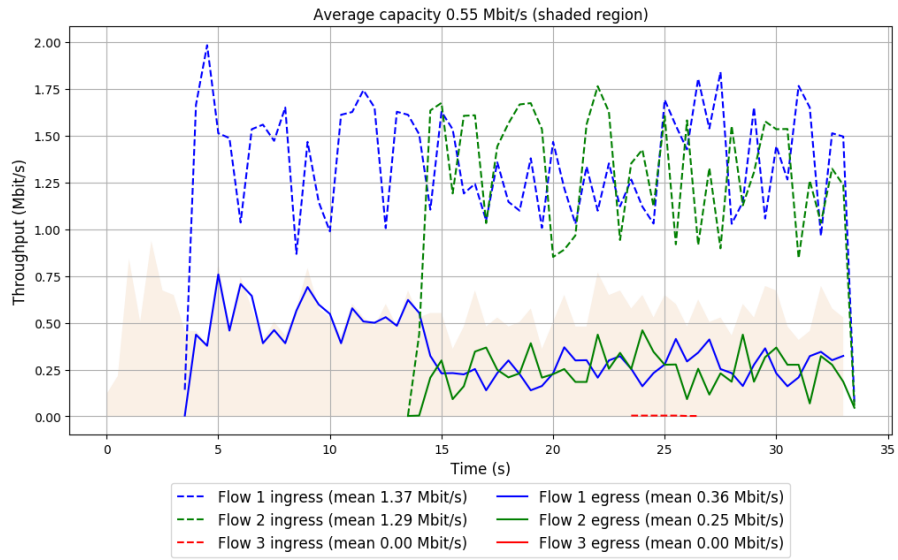
95th percentile per-packet one-way delay: 459.887 ms

Loss rate: 80.70%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 06:40:06

End at: 2018-02-16 06:40:36

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (95.0% utilization)

95th percentile per-packet one-way delay: 459.532 ms

Loss rate: 79.18%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 454.702 ms

Loss rate: 74.95%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 458.825 ms

Loss rate: 82.54%

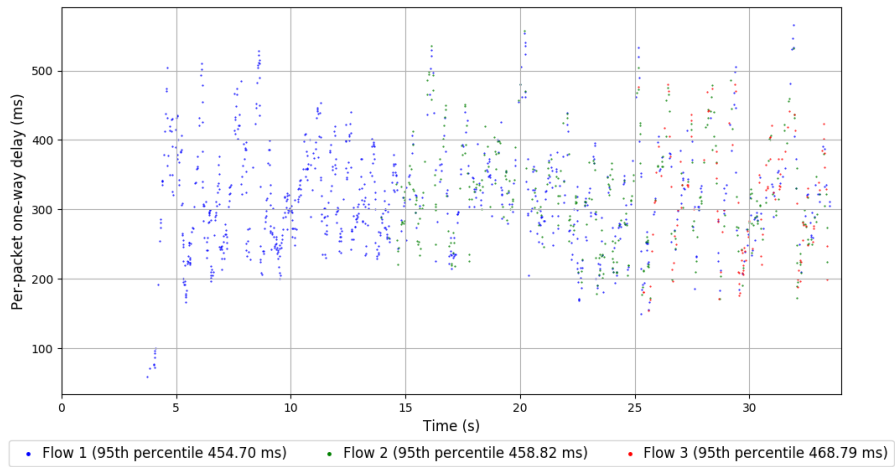
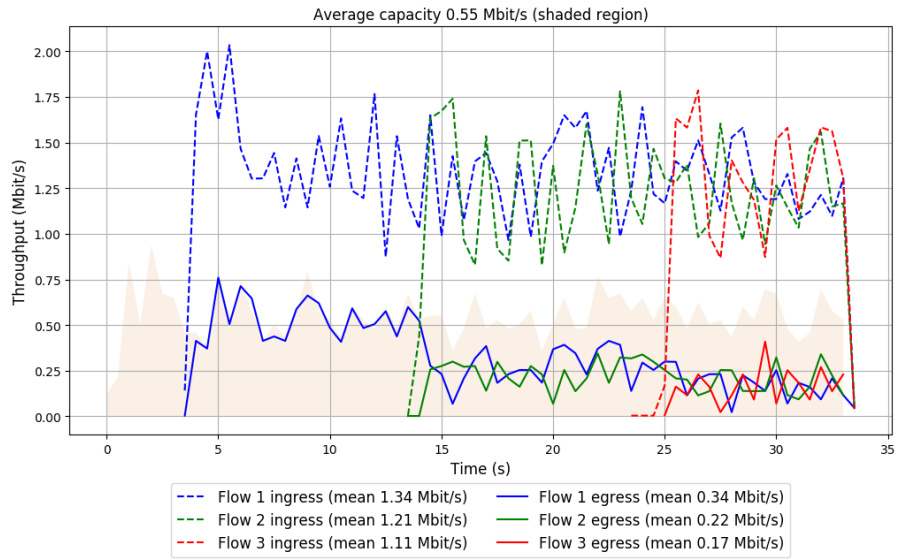
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 468.790 ms

Loss rate: 87.26%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 06:50:26

End at: 2018-02-16 06:50:56

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.4% utilization)

95th percentile per-packet one-way delay: 465.175 ms

Loss rate: 79.00%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 458.032 ms

Loss rate: 74.56%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 466.574 ms

Loss rate: 82.25%

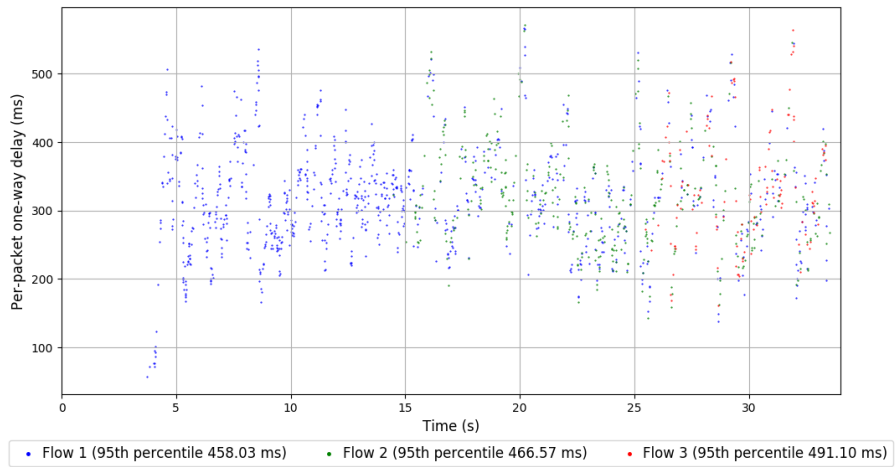
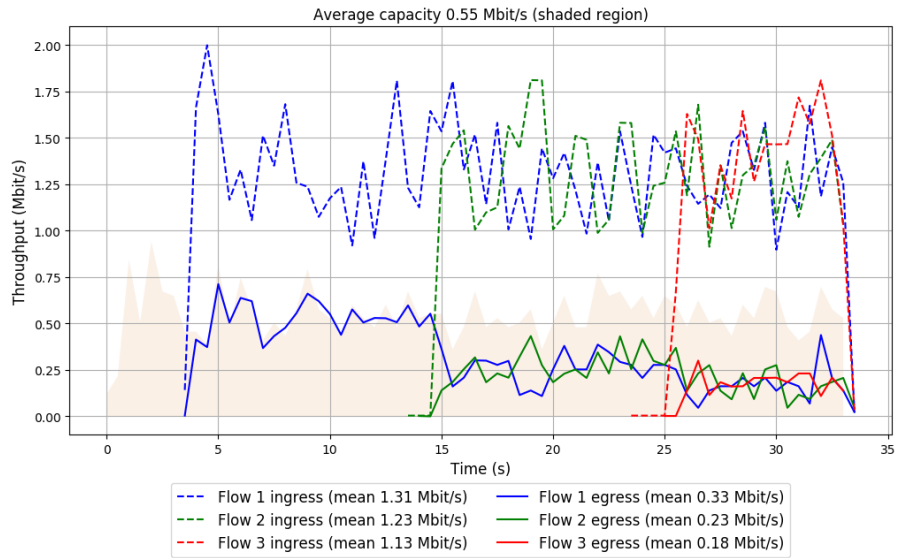
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 491.102 ms

Loss rate: 87.51%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 05:17:39

End at: 2018-02-16 05:18:09

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.2% utilization)

95th percentile per-packet one-way delay: 458.971 ms

Loss rate: 79.82%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 448.275 ms

Loss rate: 75.37%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 466.328 ms

Loss rate: 83.74%

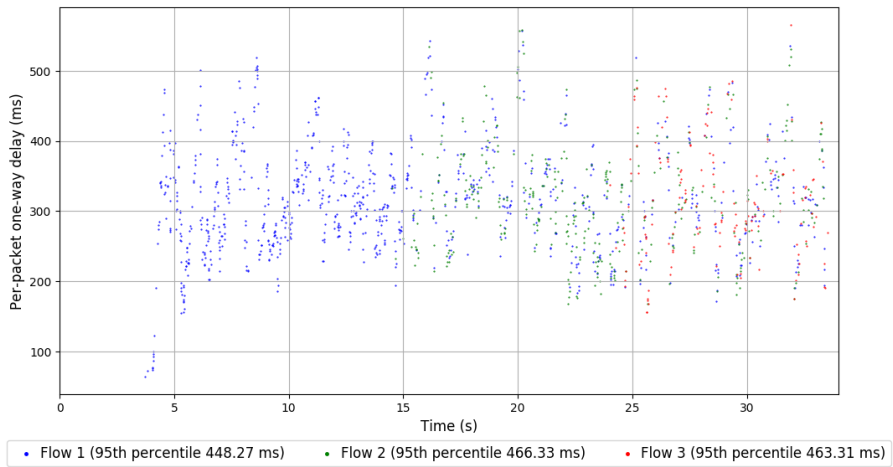
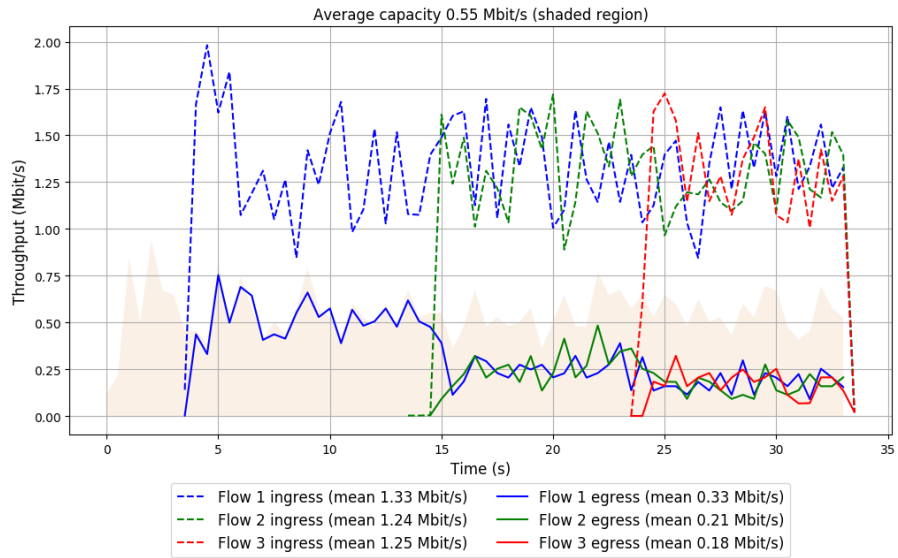
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 463.315 ms

Loss rate: 86.39%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 05:28:01

End at: 2018-02-16 05:28:31

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.4% utilization)

95th percentile per-packet one-way delay: 452.789 ms

Loss rate: 78.81%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 450.046 ms

Loss rate: 73.98%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 471.283 ms

Loss rate: 82.61%

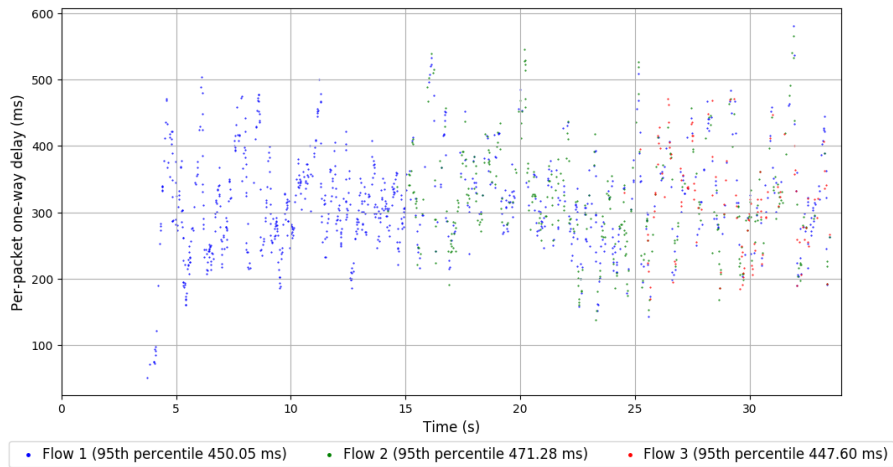
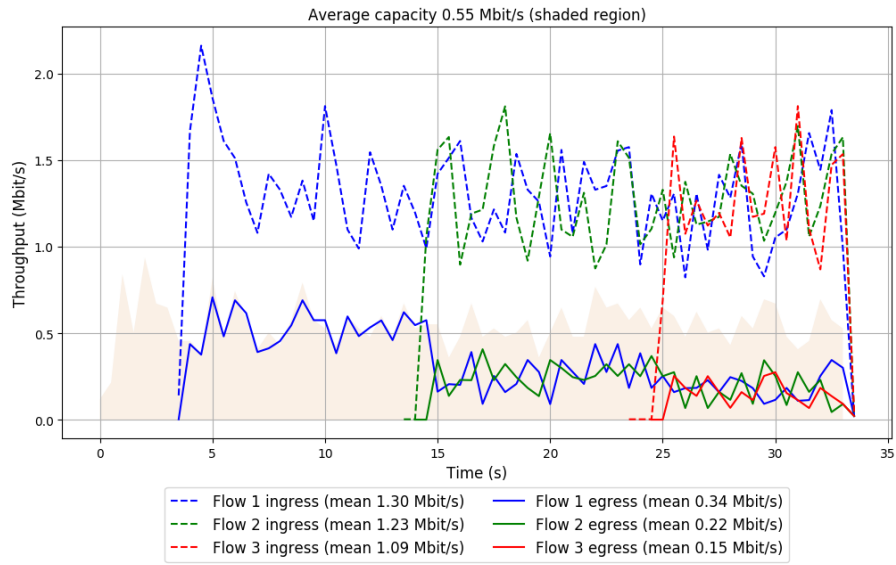
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 447.600 ms

Loss rate: 87.66%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 05:38:22

End at: 2018-02-16 05:38:52

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.4% utilization)

95th percentile per-packet one-way delay: 458.271 ms

Loss rate: 79.44%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 446.090 ms

Loss rate: 74.66%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 476.762 ms

Loss rate: 83.78%

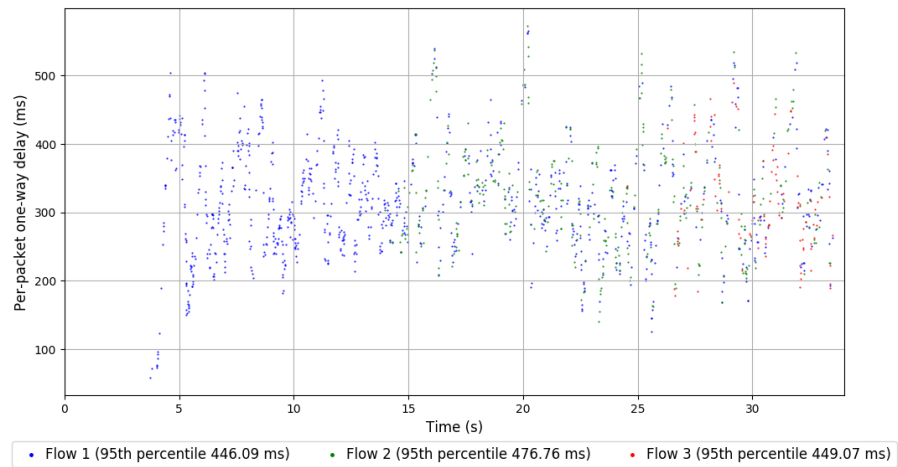
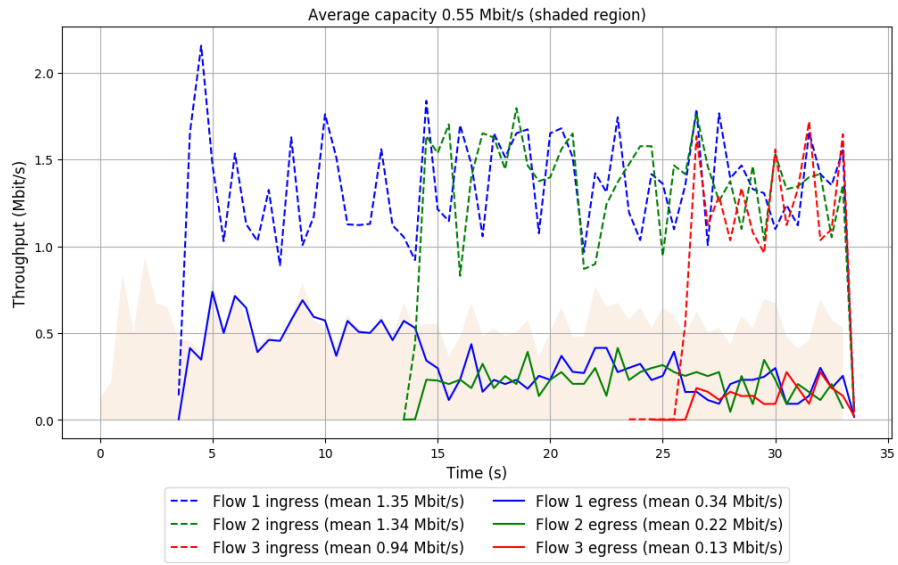
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 449.066 ms

Loss rate: 87.79%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 05:48:45

End at: 2018-02-16 05:49:15

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.53 Mbit/s (95.4% utilization)

95th percentile per-packet one-way delay: 451.996 ms

Loss rate: 79.12%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 450.263 ms

Loss rate: 74.40%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 462.080 ms

Loss rate: 82.87%

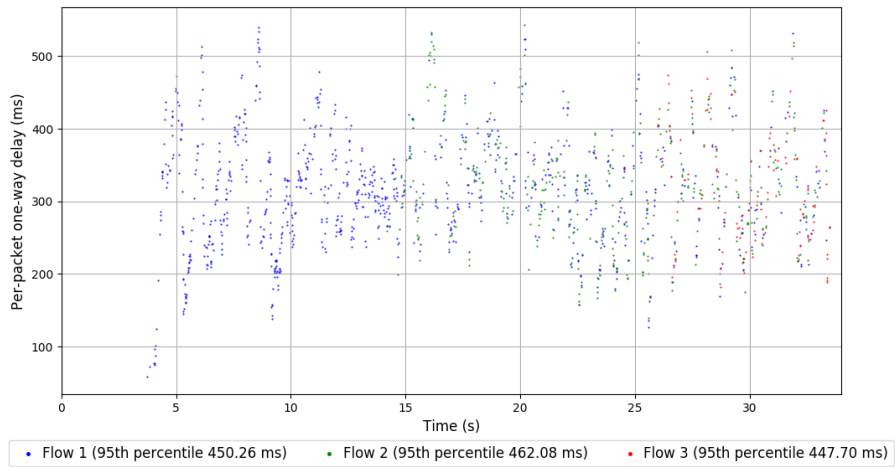
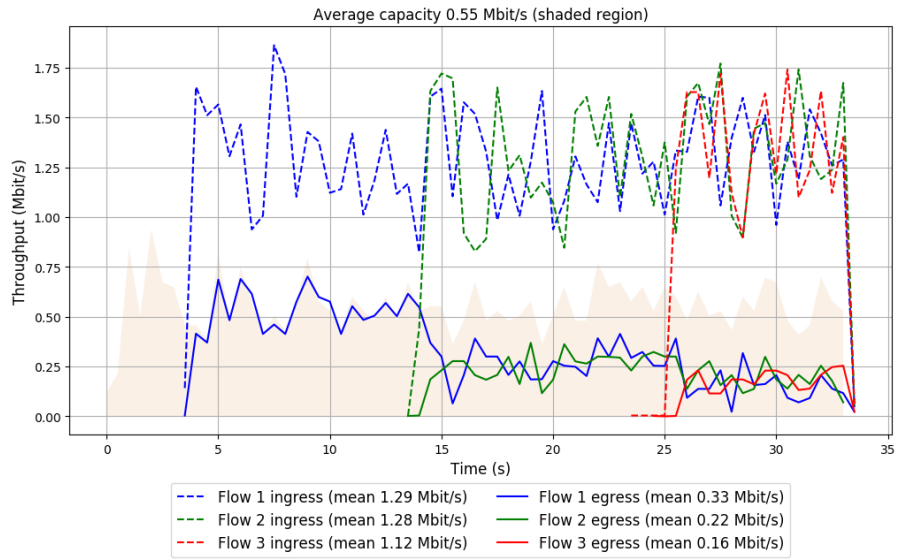
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 447.697 ms

Loss rate: 87.03%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 05:59:07

End at: 2018-02-16 05:59:37

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.3% utilization)

95th percentile per-packet one-way delay: 453.395 ms

Loss rate: 80.12%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 443.349 ms

Loss rate: 74.74%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 460.249 ms

Loss rate: 84.08%

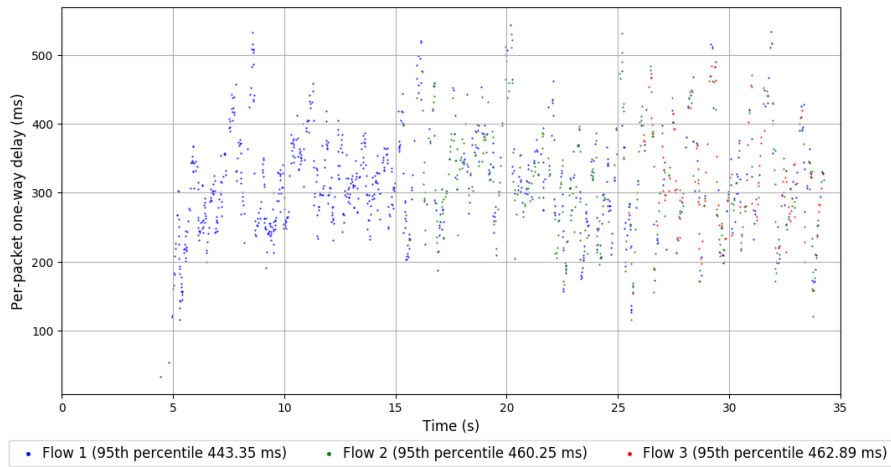
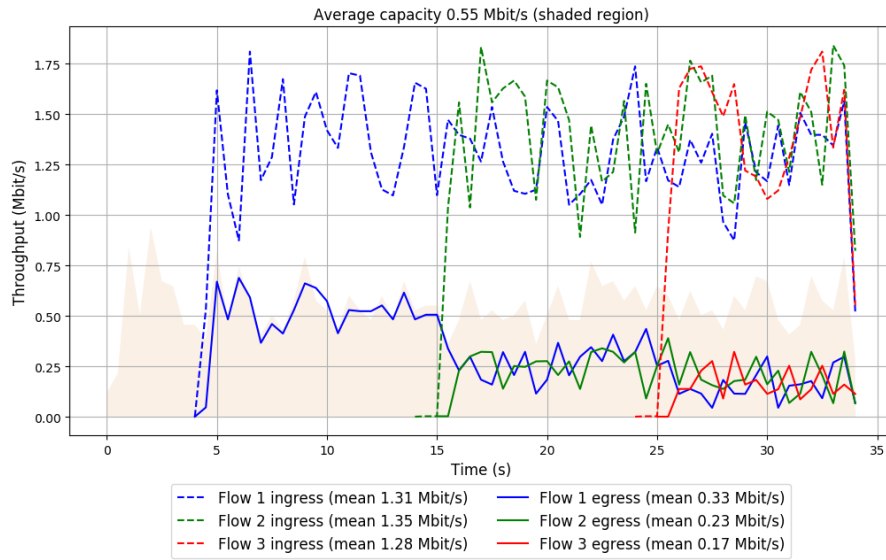
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 462.892 ms

Loss rate: 88.38%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 06:09:30

End at: 2018-02-16 06:10:00

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.6% utilization)

95th percentile per-packet one-way delay: 458.467 ms

Loss rate: 70.41%

-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 460.596 ms

Loss rate: 67.55%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 511.139 ms

Loss rate: 92.31%

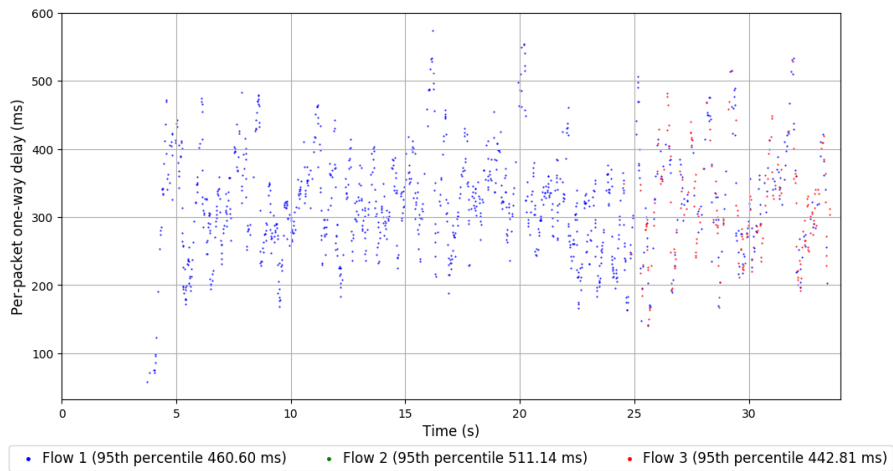
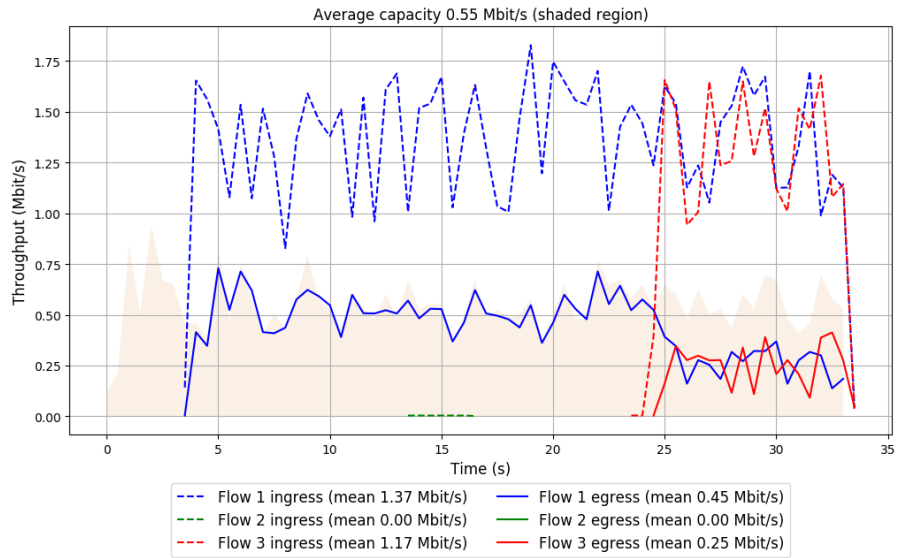
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 442.809 ms

Loss rate: 80.51%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 06:19:52

End at: 2018-02-16 06:20:22

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.51 Mbit/s (92.9% utilization)

95th percentile per-packet one-way delay: 464.489 ms

Loss rate: 79.80%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 465.533 ms

Loss rate: 75.57%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 459.820 ms

Loss rate: 83.49%

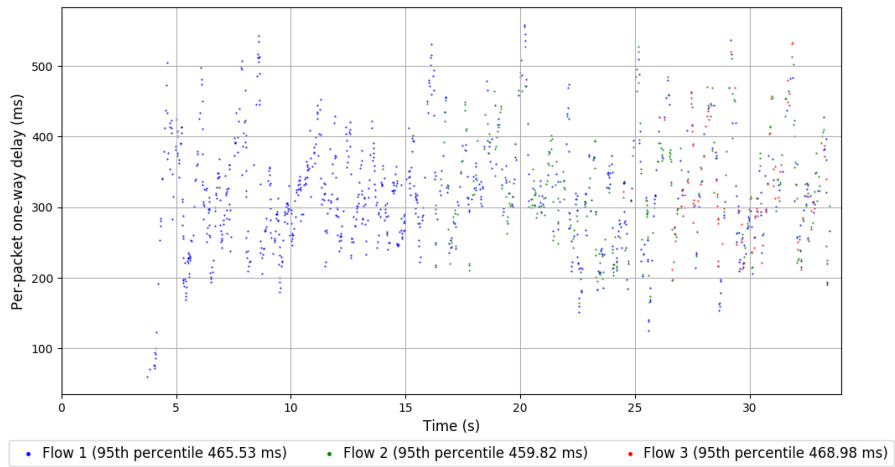
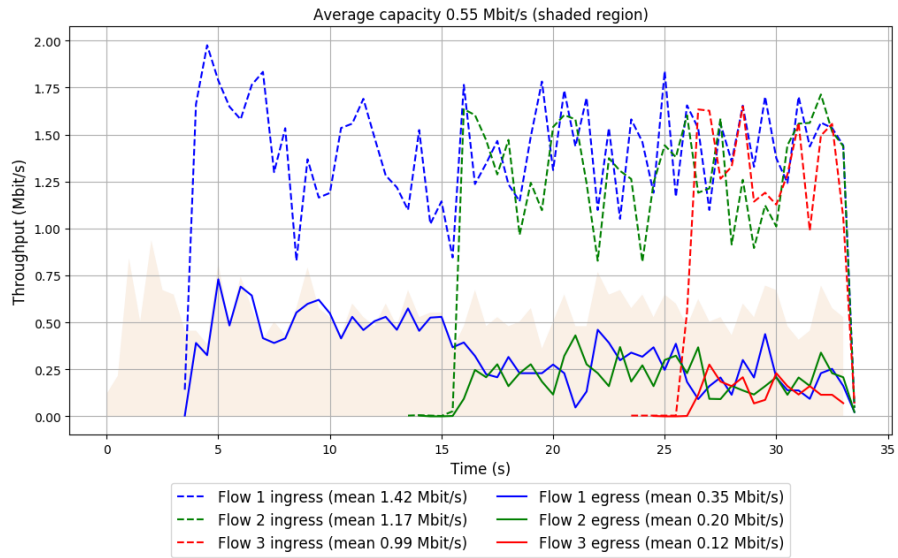
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 468.978 ms

Loss rate: 89.40%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 06:30:17

End at: 2018-02-16 06:30:47

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.9% utilization)

95th percentile per-packet one-way delay: 449.522 ms

Loss rate: 78.73%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 451.704 ms

Loss rate: 74.33%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 448.544 ms

Loss rate: 81.84%

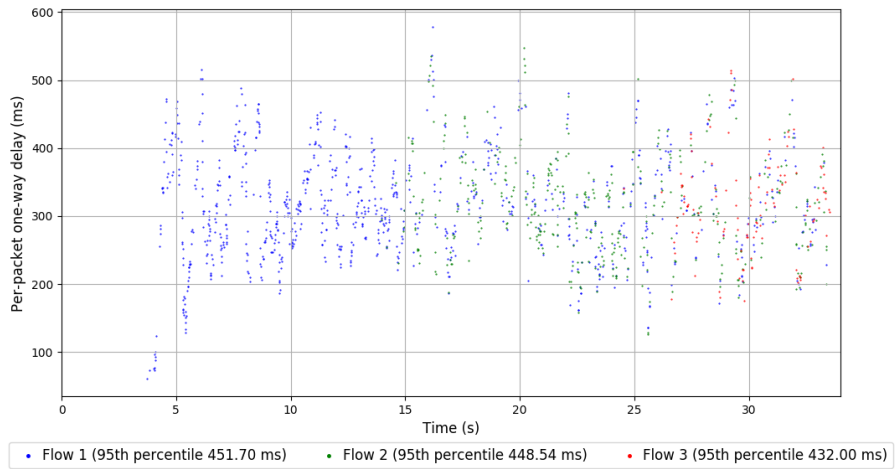
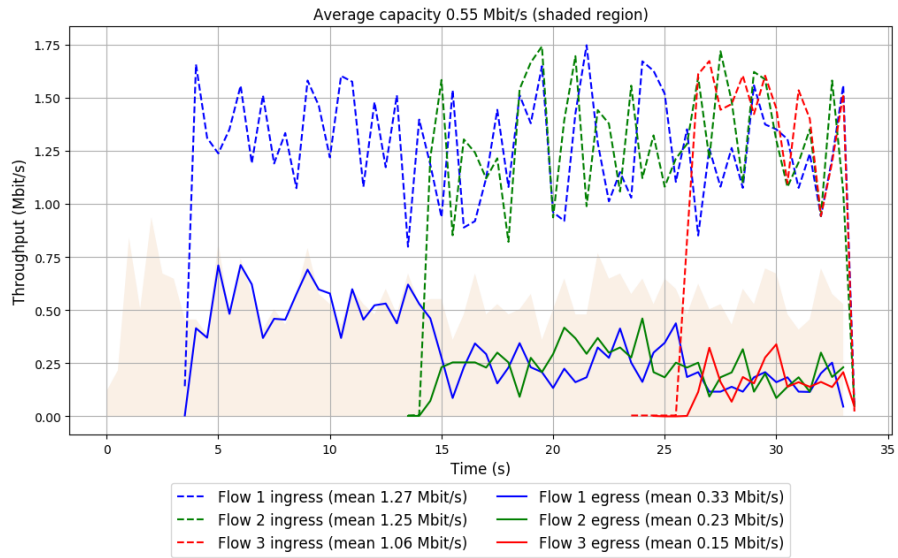
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 432.003 ms

Loss rate: 87.41%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 06:40:40

End at: 2018-02-16 06:41:10

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 460.829 ms

Loss rate: 79.53%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 450.968 ms

Loss rate: 74.61%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 466.478 ms

Loss rate: 84.10%

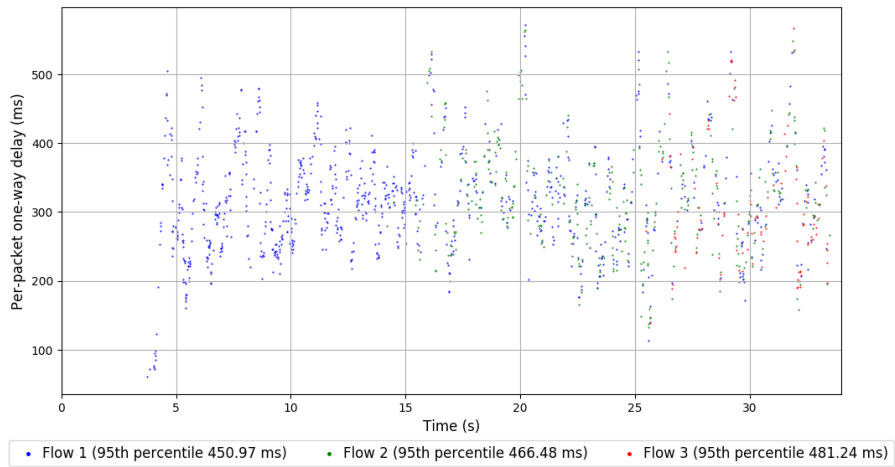
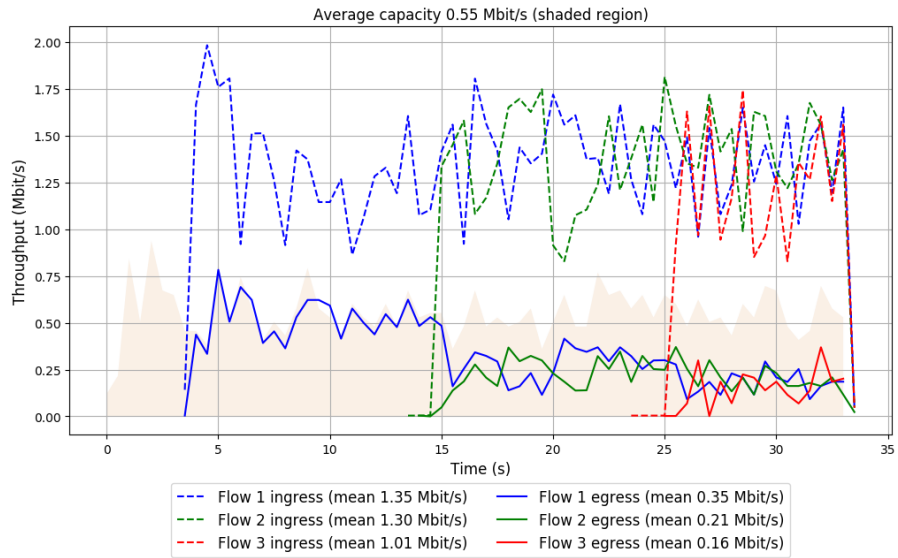
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 481.237 ms

Loss rate: 87.67%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 06:51:01

End at: 2018-02-16 06:51:31

Below is generated by plot.py at 2018-02-16 06:55:11

Datalink statistics

-- Total of 3 flows:

Average capacity: 0.55 Mbit/s

Average throughput: 0.52 Mbit/s (94.7% utilization)

95th percentile per-packet one-way delay: 462.266 ms

Loss rate: 79.28%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 450.875 ms

Loss rate: 74.66%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 468.204 ms

Loss rate: 83.24%

-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 478.634 ms

Loss rate: 87.82%

Run 10: Report of Vivace-LTE — Data Link

