

Pantheon Report

Generated at 2018-01-26 18:00:15 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

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

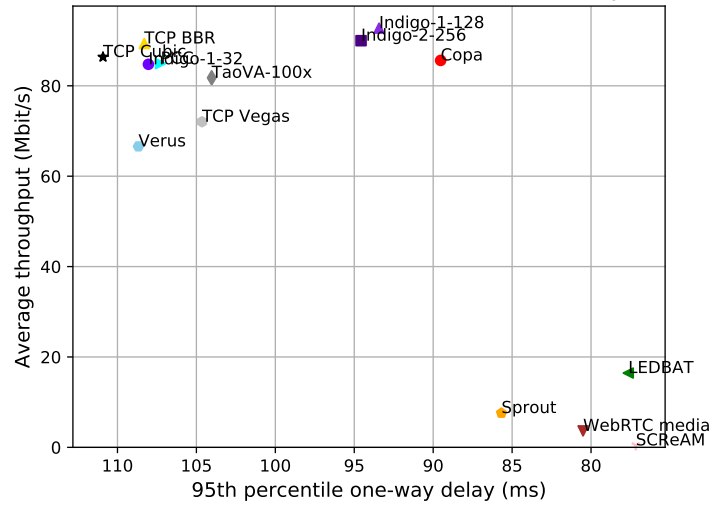
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

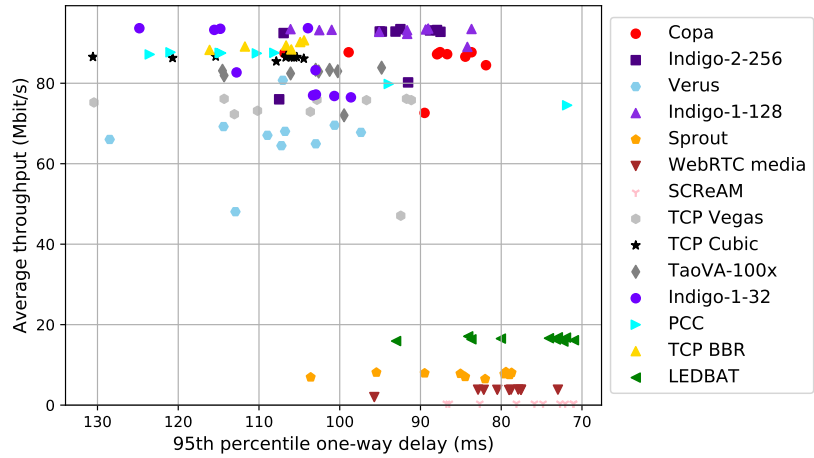
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	6	54.52	38.30	29.04	107.01	108.58	108.11	0.36	1.03	2.48
TCP Cubic	10	51.59	38.53	28.39	110.41	110.54	111.27	0.57	1.28	3.80
LEDBAT	10	10.78	6.92	3.36	77.18	77.08	77.37	1.22	1.86	3.77
PCC	8	59.53	25.29	26.47	106.18	107.02	108.71	3.54	4.45	6.91
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.21	0.22	0.22	76.25	76.22	76.80	0.63	1.05	1.56
WebRTC media	10	1.90	1.30	0.47	79.86	79.54	80.60	0.82	1.02	2.92
Sprout	10	3.95	3.85	3.26	85.58	85.51	85.05	0.70	1.19	2.50
TaoVA-100x	9	50.82	39.50	20.31	101.37	104.72	106.77	2.08	2.85	3.76
TCP Vegas	10	37.14	40.95	23.67	104.00	104.69	105.01	0.67	0.94	2.44
Verus	10	36.24	33.17	25.75	106.56	109.09	110.47	1.43	1.61	2.13
Copa	10	73.01	15.49	9.64	88.89	90.58	90.67	1.71	2.65	4.90
Indigo-2-256	10	66.33	23.46	25.31	92.17	97.87	100.15	2.13	2.76	3.60
Indigo-1-32	10	56.41	32.57	21.21	107.07	107.90	111.45	10.29	9.25	6.02
Indigo-1-128	10	74.29	19.01	18.33	91.93	98.15	100.42	0.49	0.91	2.24

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 10:37:51

End at: 2018-01-26 10:38:21

Local clock offset: -0.225 ms

Remote clock offset: 7.028 ms

Below is generated by plot.py at 2018-01-26 17:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.24 Mbit/s

95th percentile per-packet one-way delay: 104.896 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 55.59 Mbit/s

95th percentile per-packet one-way delay: 105.925 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 104.263 ms

Loss rate: 0.92%

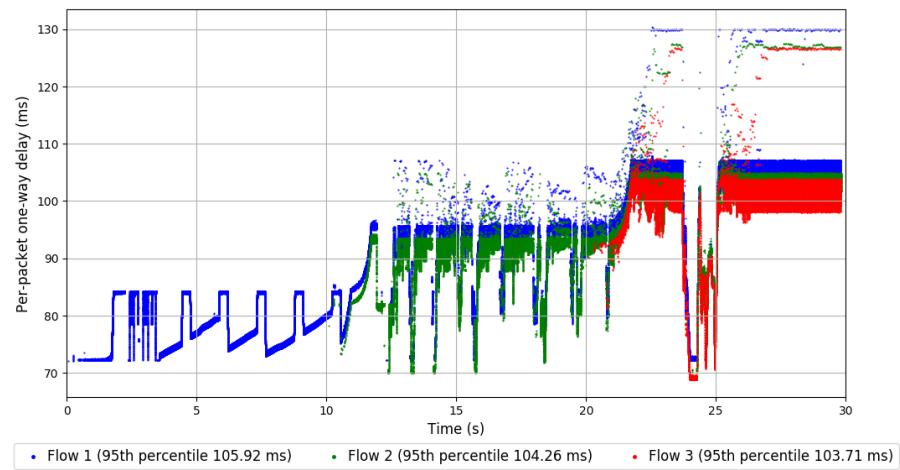
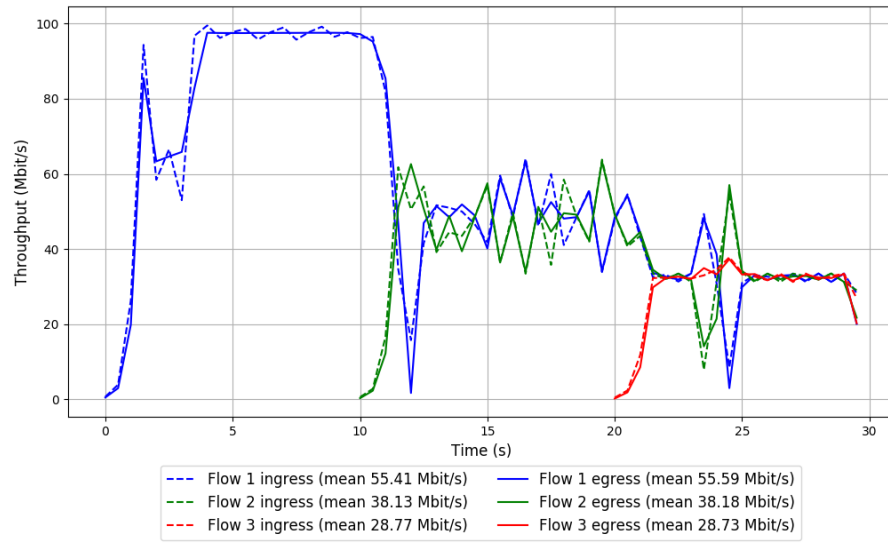
-- Flow 3:

Average throughput: 28.73 Mbit/s

95th percentile per-packet one-way delay: 103.708 ms

Loss rate: 2.35%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

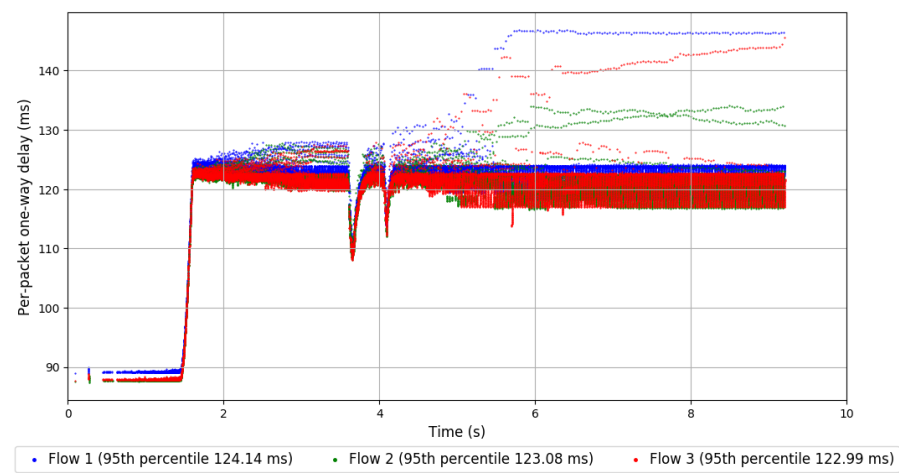
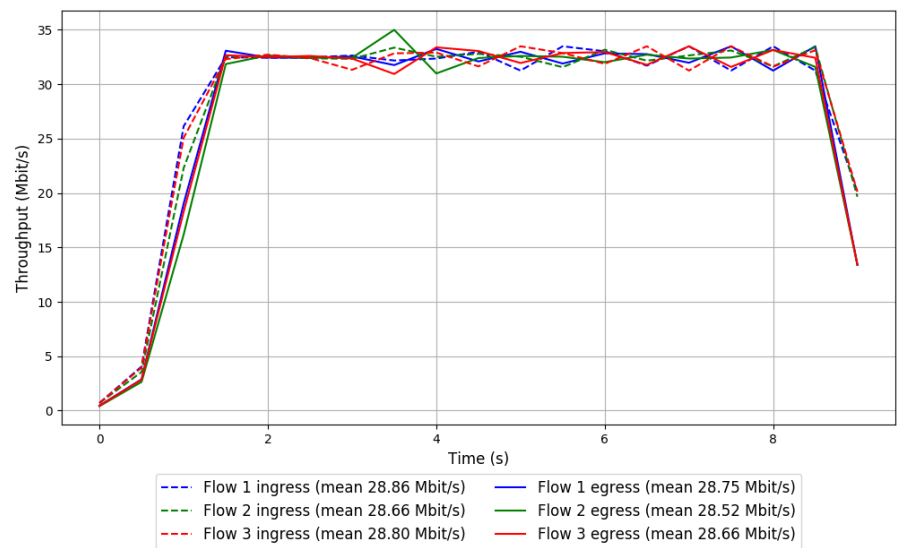
Start at: 2018-01-26 10:59:07

End at: 2018-01-26 10:59:37

Local clock offset: -0.144 ms

Remote clock offset: -11.259 ms

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

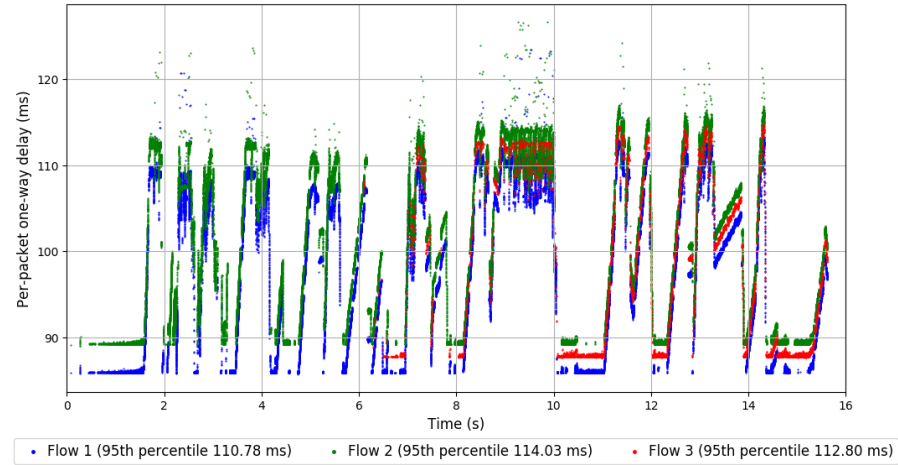
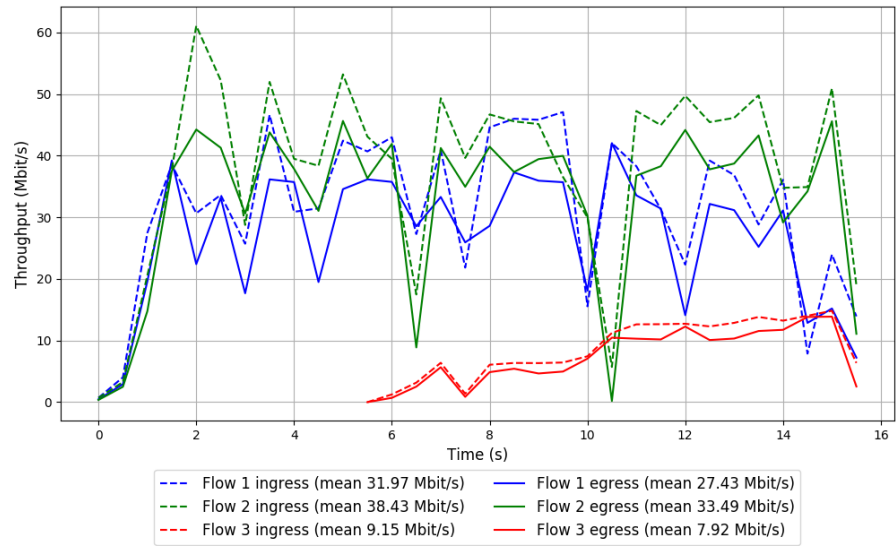
Start at: 2018-01-26 11:20:19

End at: 2018-01-26 11:20:49

Local clock offset: -0.229 ms

Remote clock offset: -8.885 ms

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 11:41:39

End at: 2018-01-26 11:42:09

Local clock offset: -0.275 ms

Remote clock offset: 7.083 ms

Below is generated by plot.py at 2018-01-26 17:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.40 Mbit/s

95th percentile per-packet one-way delay: 106.642 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 54.47 Mbit/s

95th percentile per-packet one-way delay: 106.226 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 105.225 ms

Loss rate: 0.91%

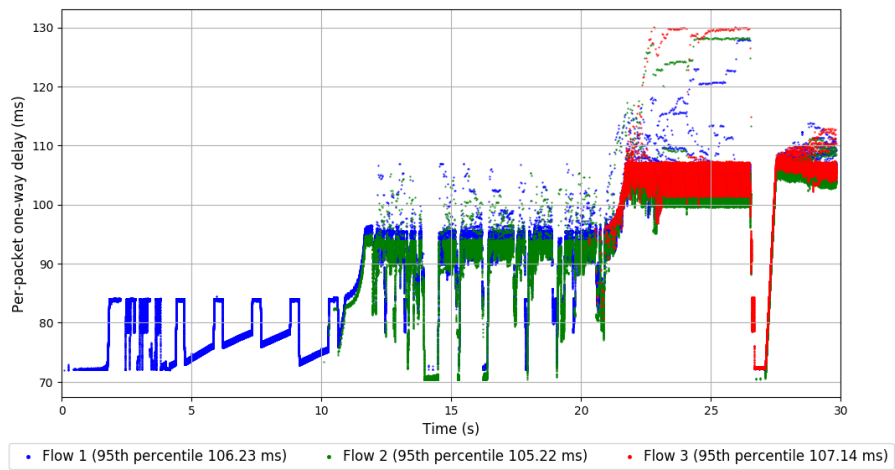
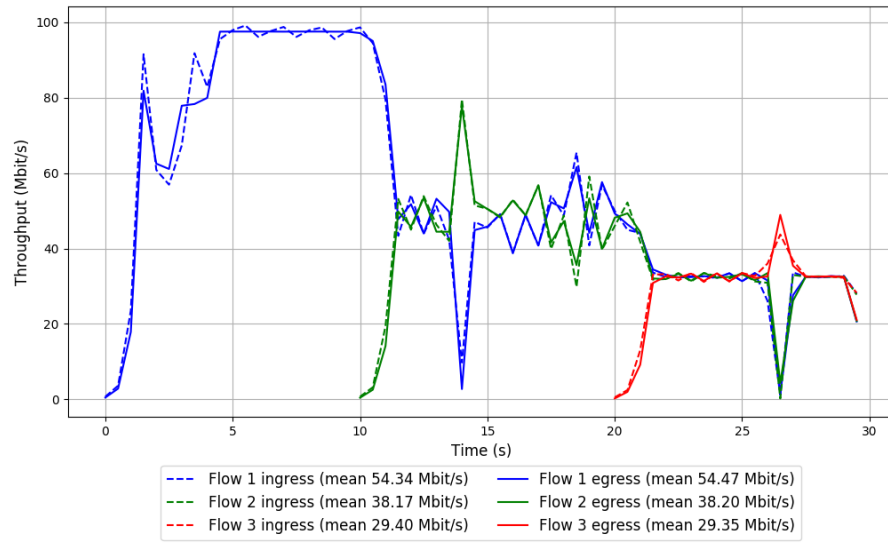
-- Flow 3:

Average throughput: 29.35 Mbit/s

95th percentile per-packet one-way delay: 107.137 ms

Loss rate: 2.38%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

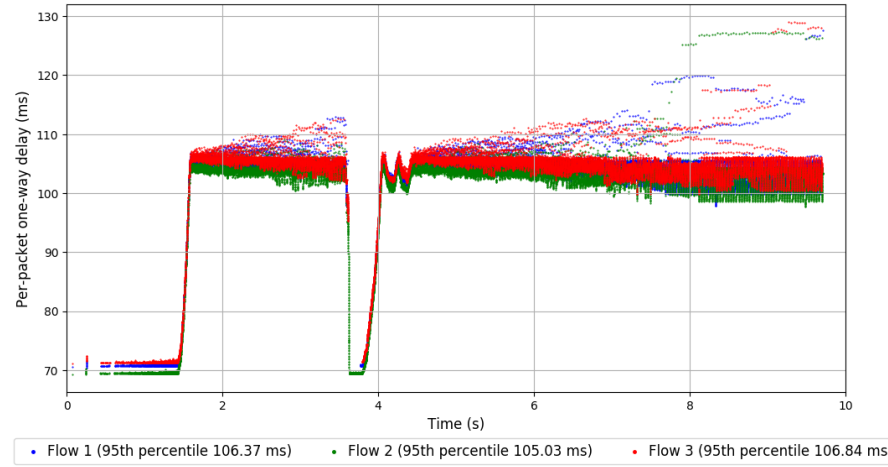
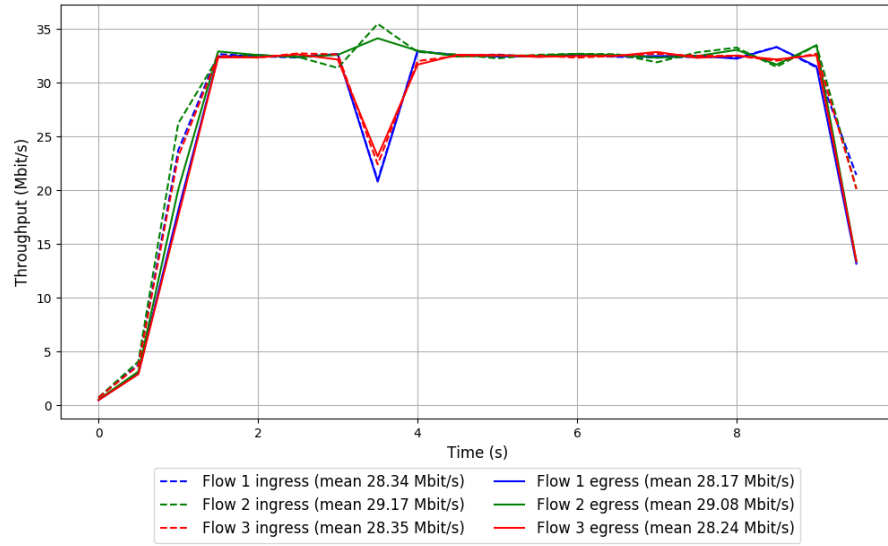
Start at: 2018-01-26 12:02:49

End at: 2018-01-26 12:03:19

Local clock offset: -0.421 ms

Remote clock offset: 7.906 ms

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 12:24:05

End at: 2018-01-26 12:24:35

Local clock offset: -0.278 ms

Remote clock offset: 1.975 ms

Below is generated by plot.py at 2018-01-26 17:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 111.741 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 109.720 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 37.89 Mbit/s

95th percentile per-packet one-way delay: 112.796 ms

Loss rate: 0.97%

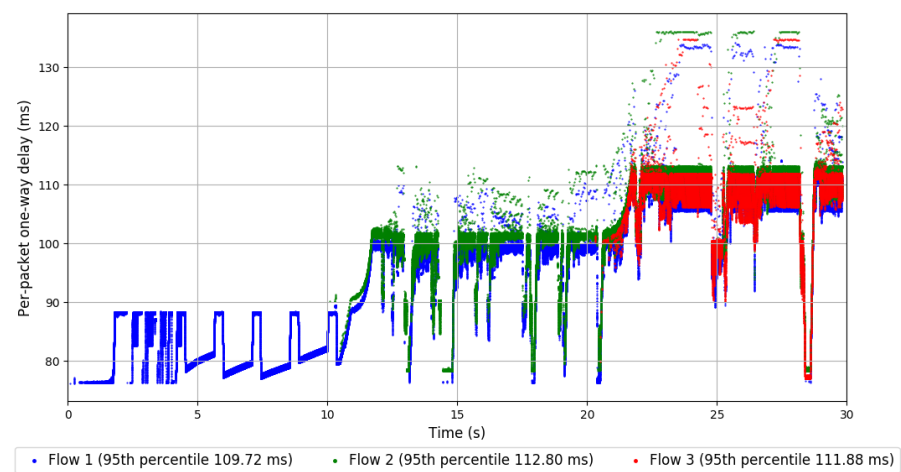
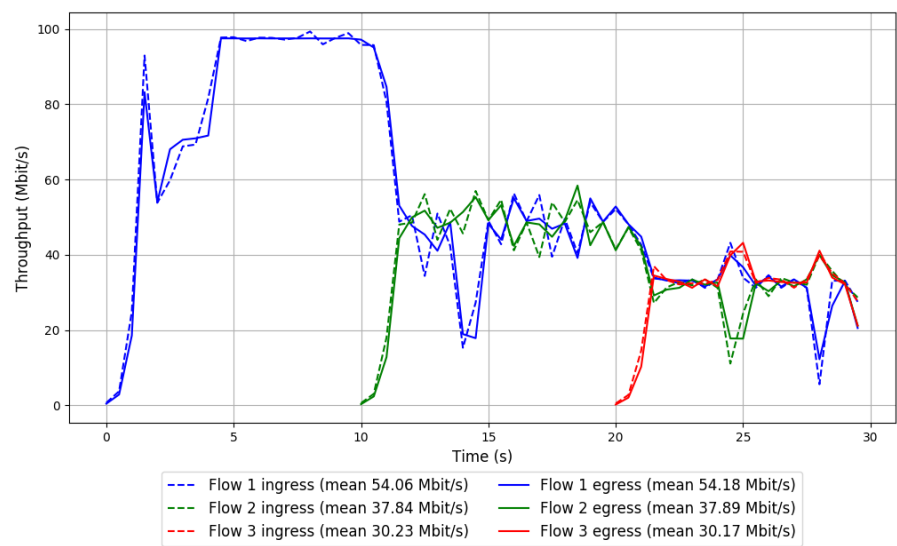
-- Flow 3:

Average throughput: 30.17 Mbit/s

95th percentile per-packet one-way delay: 111.882 ms

Loss rate: 2.35%

Run 6: Report of TCP BBR — Data Link

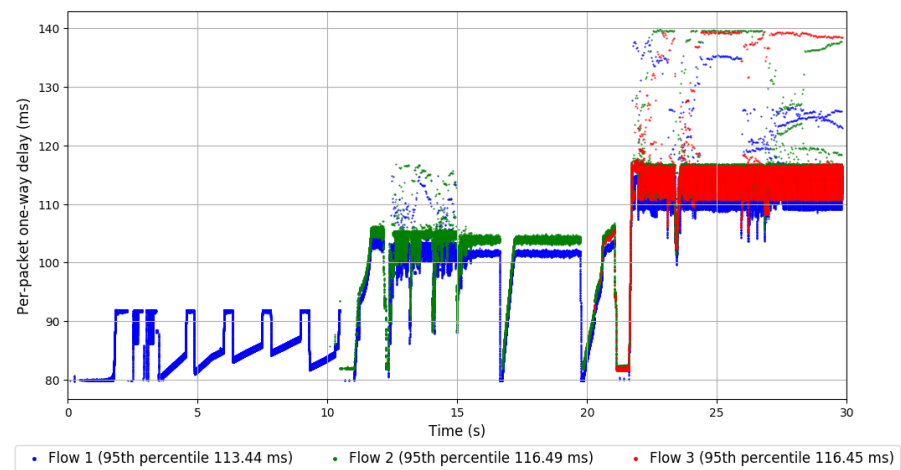
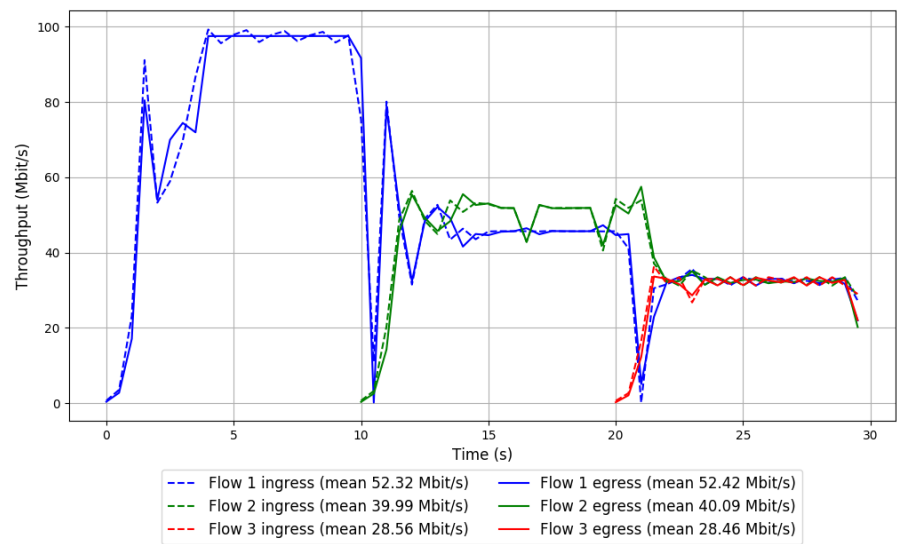


Run 7: Statistics of TCP BBR

Start at: 2018-01-26 12:45:26
End at: 2018-01-26 12:45:56
Local clock offset: -0.213 ms
Remote clock offset: -2.808 ms

Below is generated by plot.py at 2018-01-26 17:43:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.30 Mbit/s
95th percentile per-packet one-way delay: 116.120 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 52.42 Mbit/s
95th percentile per-packet one-way delay: 113.437 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 116.494 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 116.453 ms
Loss rate: 2.41%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 13:07:01

End at: 2018-01-26 13:07:31

Local clock offset: -0.213 ms

Remote clock offset: 8.323 ms

Below is generated by plot.py at 2018-01-26 17:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 104.419 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 56.36 Mbit/s

95th percentile per-packet one-way delay: 103.825 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 105.496 ms

Loss rate: 1.56%

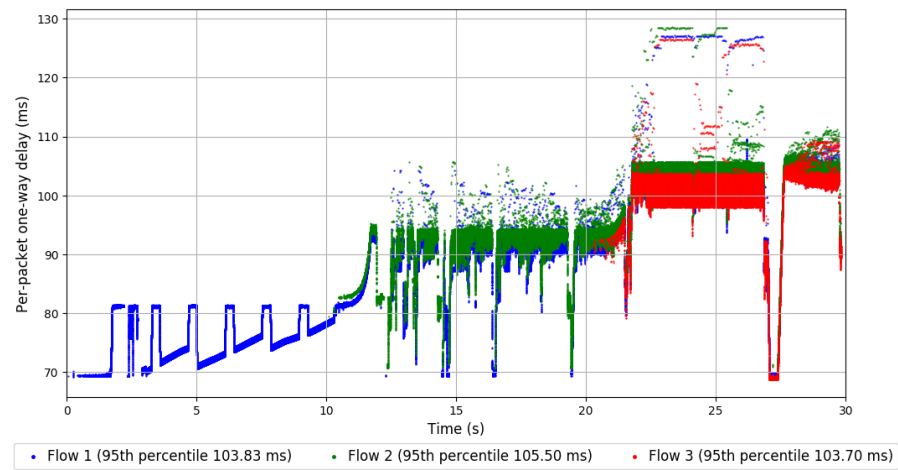
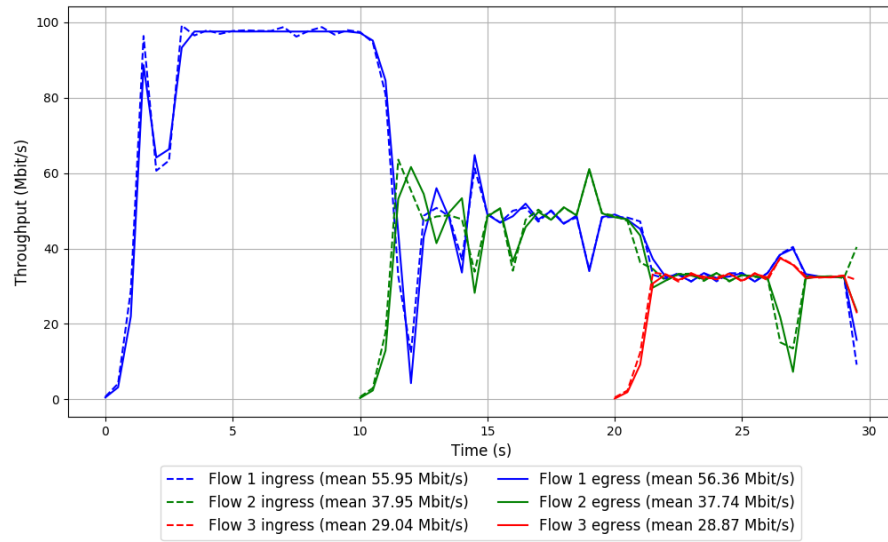
-- Flow 3:

Average throughput: 28.87 Mbit/s

95th percentile per-packet one-way delay: 103.696 ms

Loss rate: 2.65%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

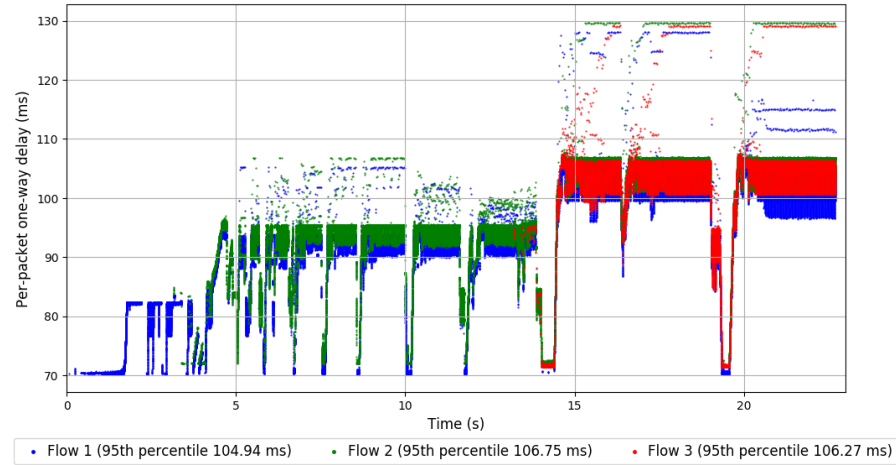
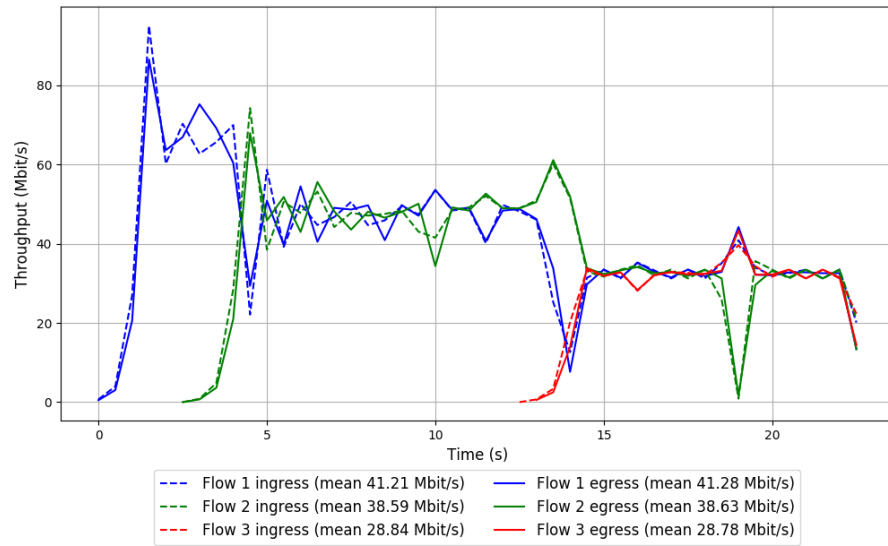
Start at: 2018-01-26 13:28:30

End at: 2018-01-26 13:29:00

Local clock offset: -0.309 ms

Remote clock offset: 6.279 ms

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 13:49:58

End at: 2018-01-26 13:50:28

Local clock offset: -0.247 ms

Remote clock offset: 6.74 ms

Below is generated by plot.py at 2018-01-26 17:43:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 105.998 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 102.908 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 107.235 ms

Loss rate: 0.90%

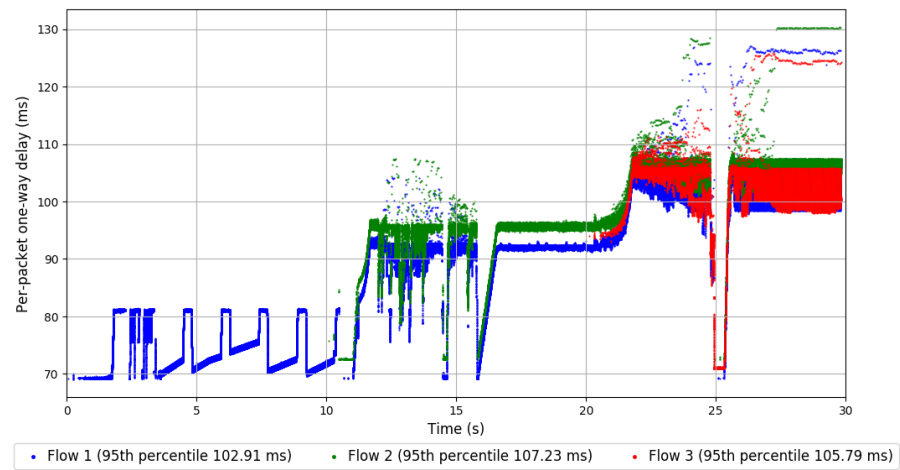
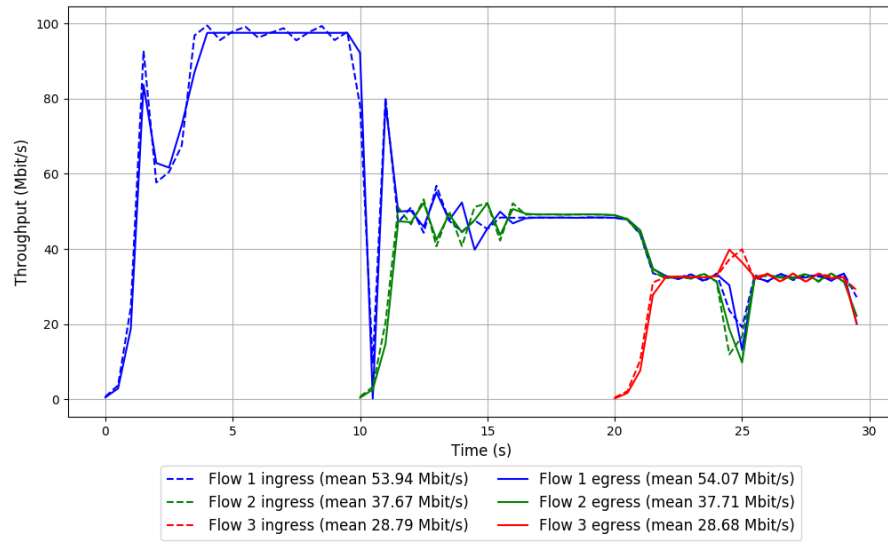
-- Flow 3:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 105.791 ms

Loss rate: 2.71%

Run 10: Report of TCP BBR — Data Link

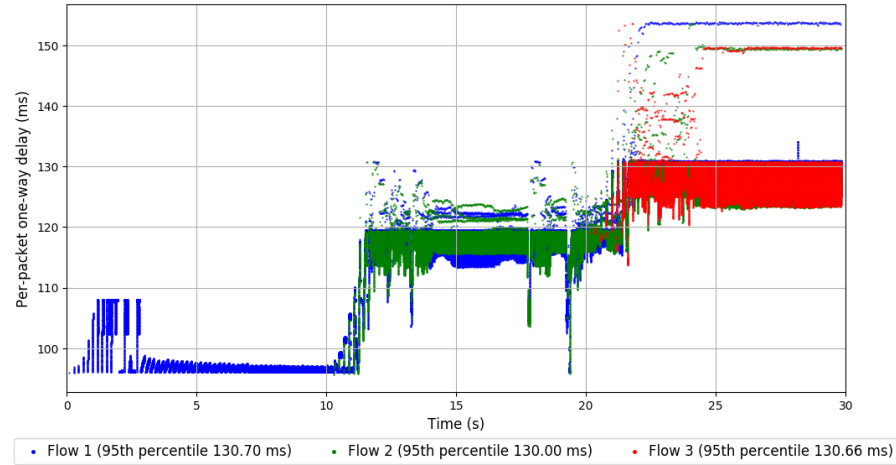
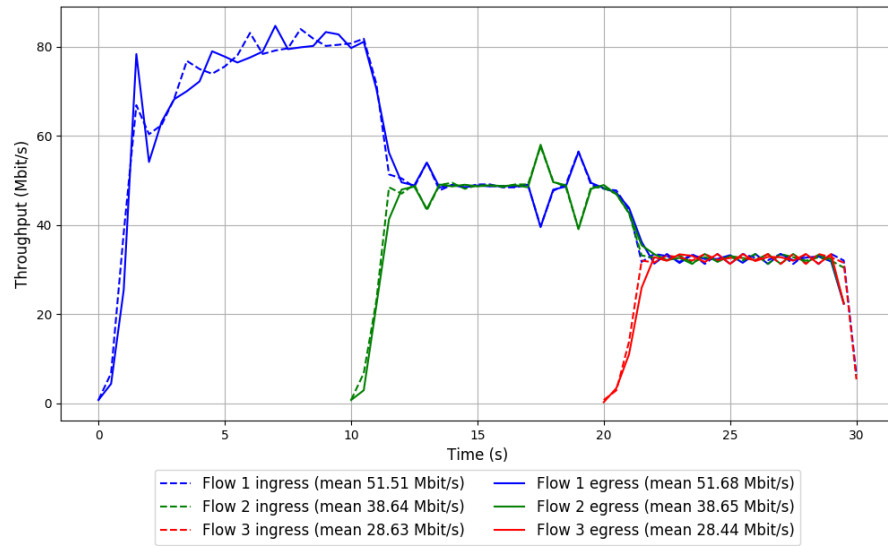


Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 10:41:49
End at: 2018-01-26 10:42:19
Local clock offset: -0.182 ms
Remote clock offset: -18.379 ms

Below is generated by plot.py at 2018-01-26 17:43:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.55 Mbit/s
95th percentile per-packet one-way delay: 130.562 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 51.68 Mbit/s
95th percentile per-packet one-way delay: 130.704 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 38.65 Mbit/s
95th percentile per-packet one-way delay: 130.005 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 130.664 ms
Loss rate: 3.96%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 11:03:02

End at: 2018-01-26 11:03:32

Local clock offset: -0.163 ms

Remote clock offset: -8.49 ms

Below is generated by plot.py at 2018-01-26 17:44:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 120.700 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 119.711 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 38.21 Mbit/s

95th percentile per-packet one-way delay: 121.864 ms

Loss rate: 1.40%

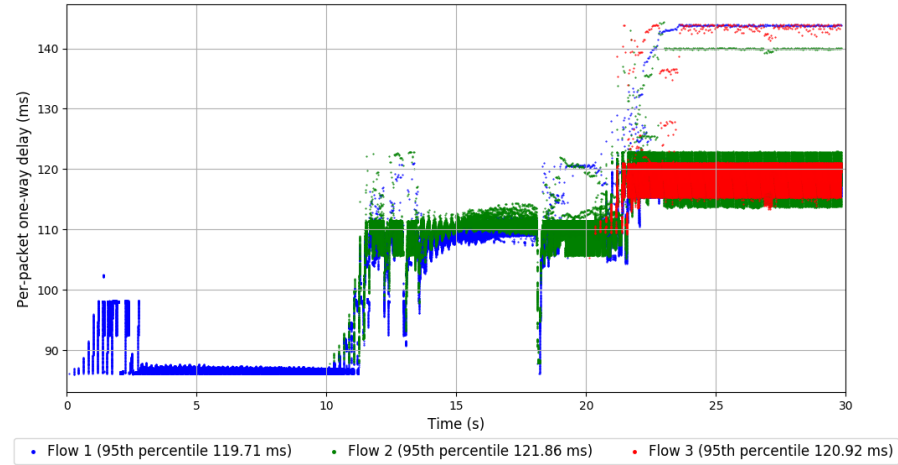
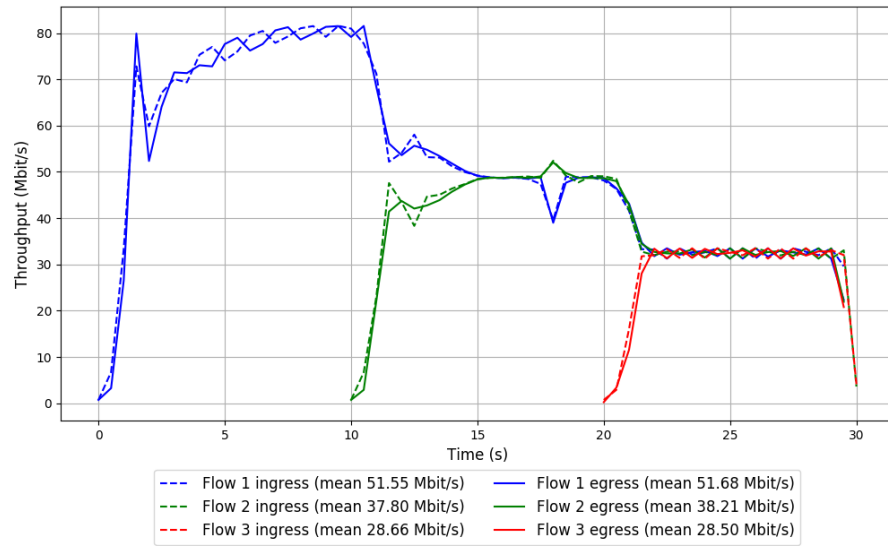
-- Flow 3:

Average throughput: 28.50 Mbit/s

95th percentile per-packet one-way delay: 120.918 ms

Loss rate: 3.96%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 11:24:17

End at: 2018-01-26 11:24:47

Local clock offset: -0.254 ms

Remote clock offset: 8.662 ms

Below is generated by plot.py at 2018-01-26 17:44:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 104.456 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 53.11 Mbit/s

95th percentile per-packet one-way delay: 103.604 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 105.646 ms

Loss rate: 0.98%

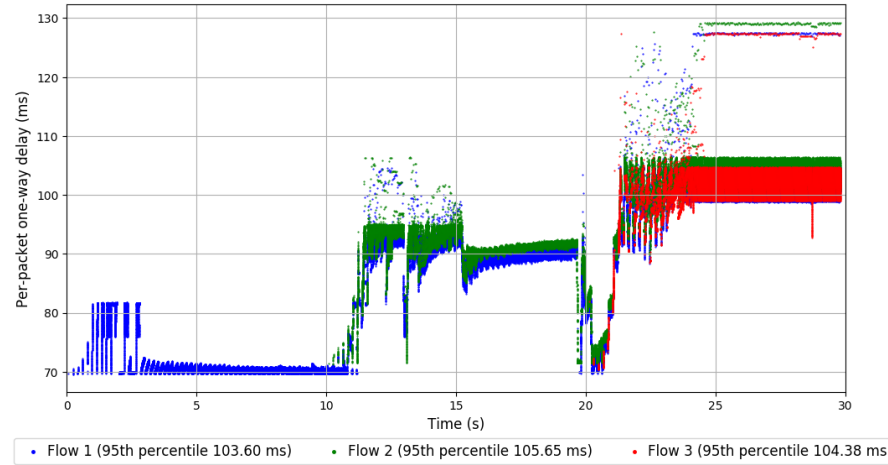
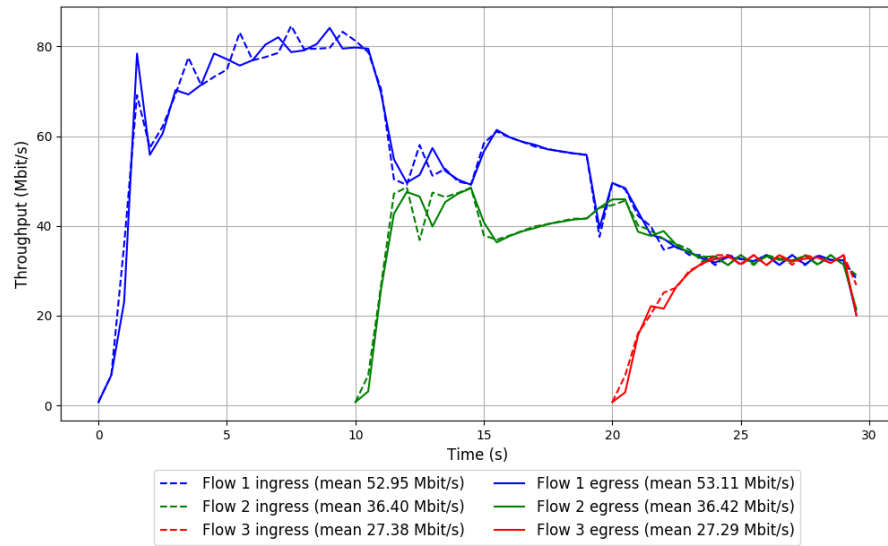
-- Flow 3:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 104.384 ms

Loss rate: 2.48%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 11:45:38

End at: 2018-01-26 11:46:08

Local clock offset: -0.332 ms

Remote clock offset: 7.193 ms

Below is generated by plot.py at 2018-01-26 17:44:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 107.852 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 50.68 Mbit/s

95th percentile per-packet one-way delay: 107.707 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 106.430 ms

Loss rate: 0.98%

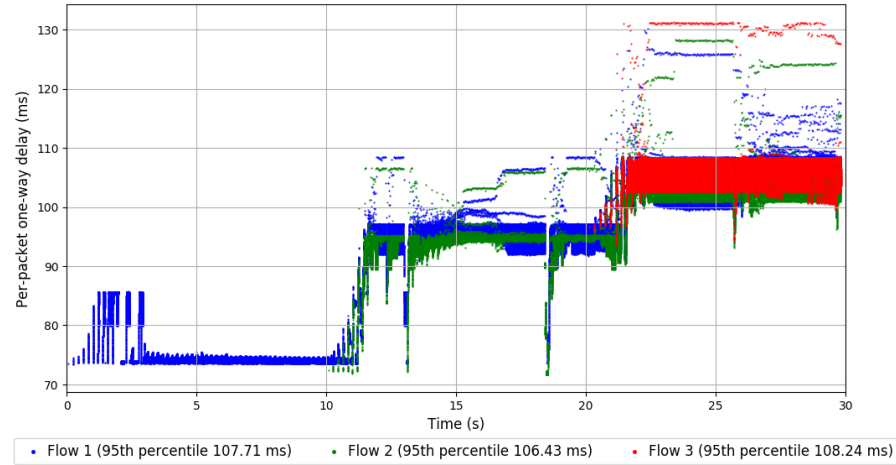
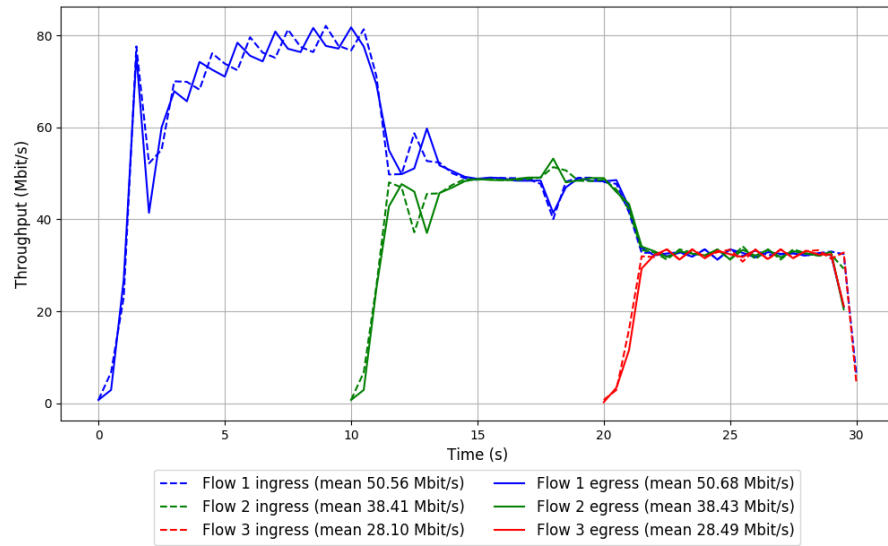
-- Flow 3:

Average throughput: 28.49 Mbit/s

95th percentile per-packet one-way delay: 108.243 ms

Loss rate: 3.94%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 12:06:44

End at: 2018-01-26 12:07:14

Local clock offset: -0.338 ms

Remote clock offset: 7.835 ms

Below is generated by plot.py at 2018-01-26 17:44:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 105.972 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 105.854 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 105.664 ms

Loss rate: 1.44%

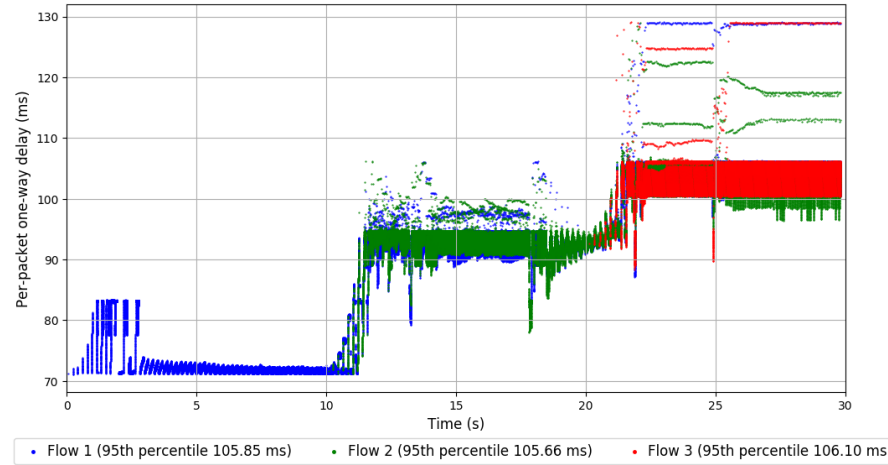
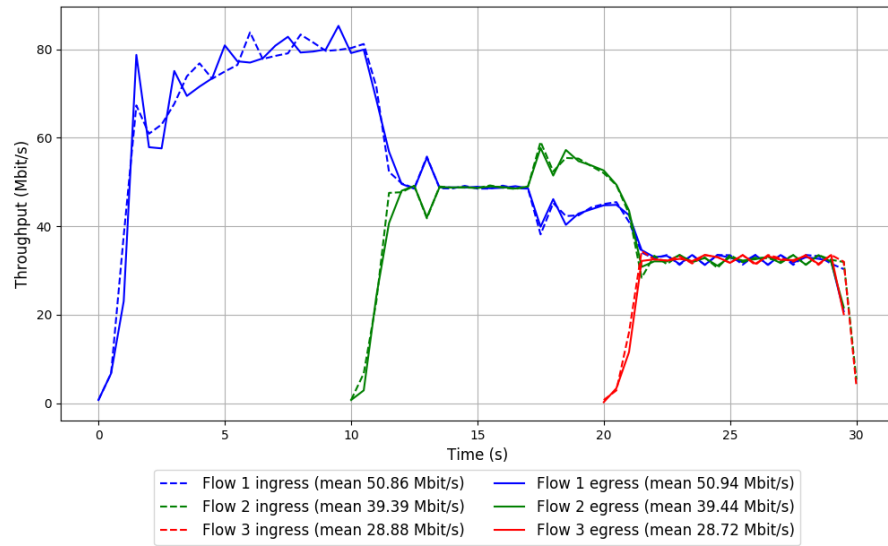
-- Flow 3:

Average throughput: 28.72 Mbit/s

95th percentile per-packet one-way delay: 106.102 ms

Loss rate: 3.88%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 12:28:03

End at: 2018-01-26 12:28:33

Local clock offset: -0.244 ms

Remote clock offset: 6.793 ms

Below is generated by plot.py at 2018-01-26 17:44:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 106.597 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 104.944 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 38.57 Mbit/s

95th percentile per-packet one-way delay: 106.978 ms

Loss rate: 1.46%

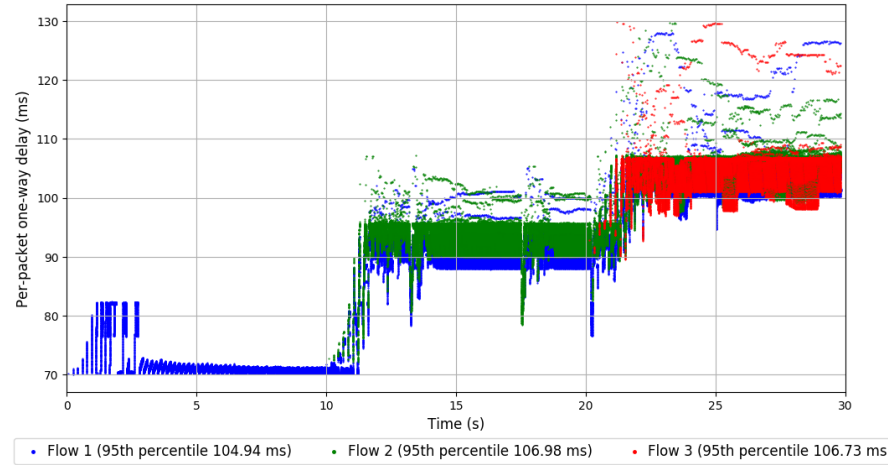
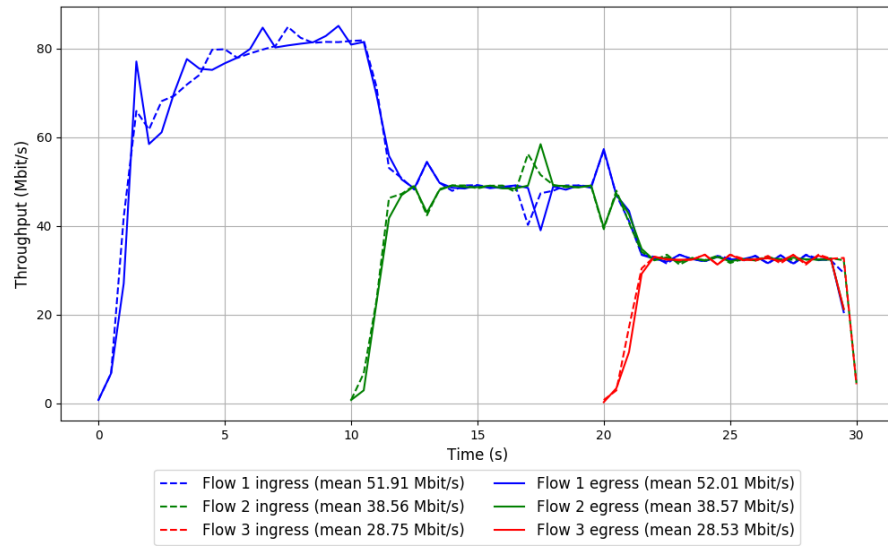
-- Flow 3:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 106.729 ms

Loss rate: 3.95%

Run 6: Report of TCP Cubic — Data Link

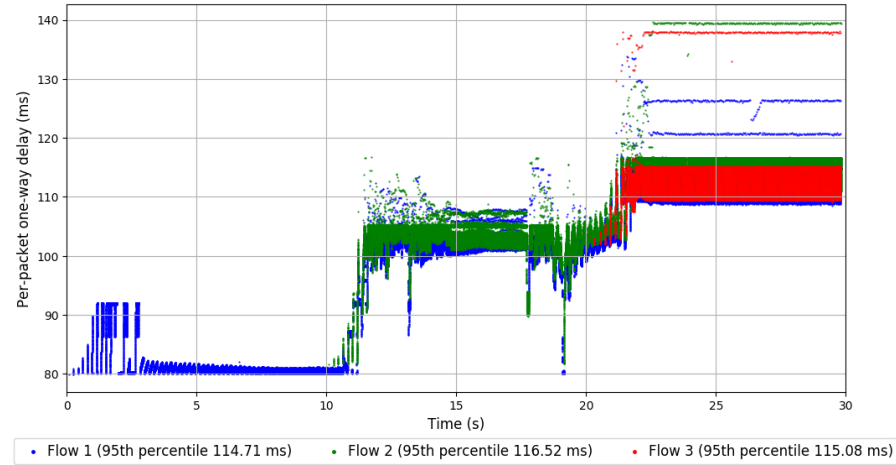
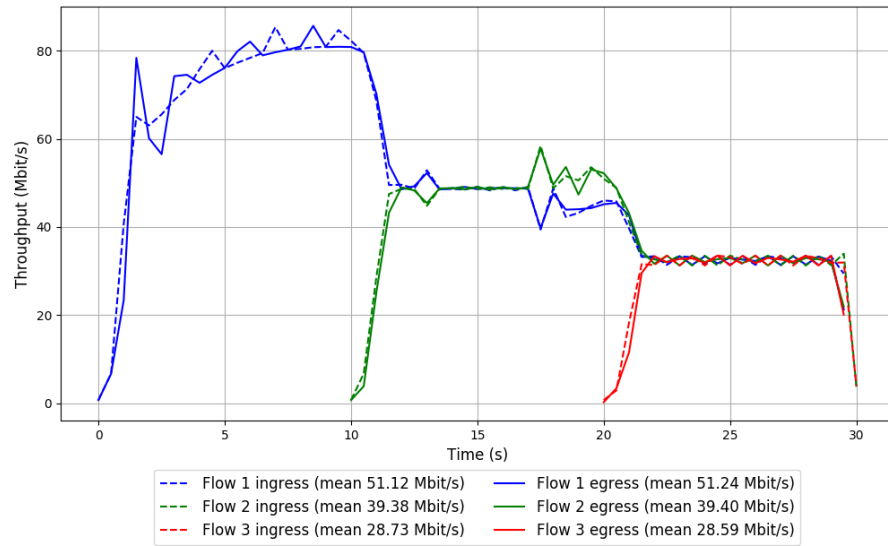


Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 12:49:26
End at: 2018-01-26 12:49:56
Local clock offset: -0.18 ms
Remote clock offset: -2.919 ms

Below is generated by plot.py at 2018-01-26 17:44:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.66 Mbit/s
95th percentile per-packet one-way delay: 115.360 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 51.24 Mbit/s
95th percentile per-packet one-way delay: 114.709 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 39.40 Mbit/s
95th percentile per-packet one-way delay: 116.519 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 115.085 ms
Loss rate: 3.90%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 13:11:01

End at: 2018-01-26 13:11:31

Local clock offset: -0.214 ms

Remote clock offset: 8.102 ms

Below is generated by plot.py at 2018-01-26 17:44:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.41 Mbit/s

95th percentile per-packet one-way delay: 105.651 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 51.35 Mbit/s

95th percentile per-packet one-way delay: 105.161 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 104.043 ms

Loss rate: 1.43%

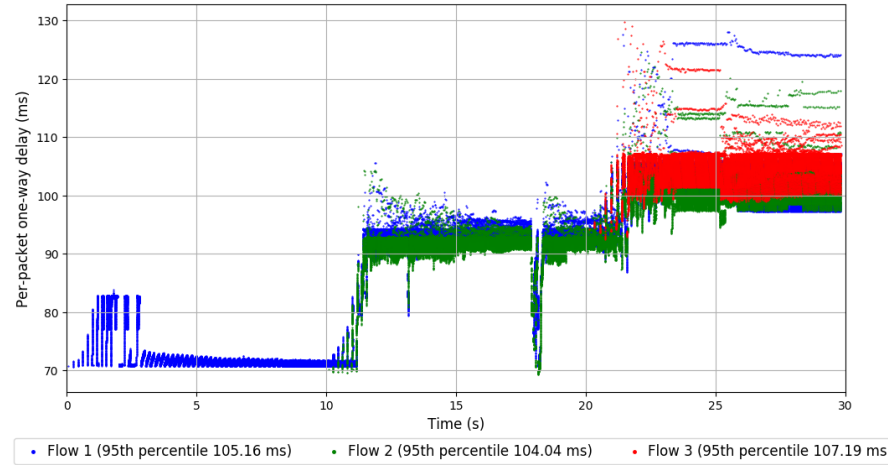
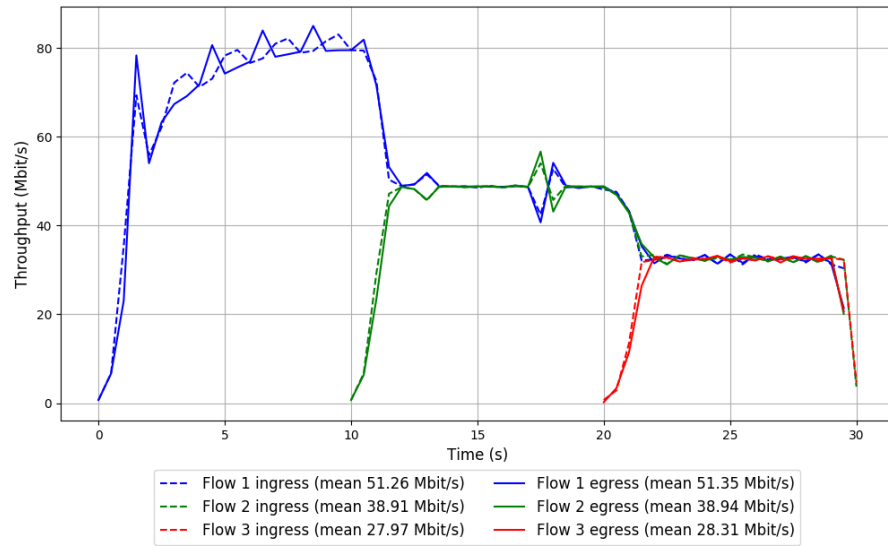
-- Flow 3:

Average throughput: 28.31 Mbit/s

95th percentile per-packet one-way delay: 107.189 ms

Loss rate: 4.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 13:32:28

End at: 2018-01-26 13:32:58

Local clock offset: -0.234 ms

Remote clock offset: 7.175 ms

Below is generated by plot.py at 2018-01-26 17:44:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 105.332 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 104.961 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 38.25 Mbit/s

95th percentile per-packet one-way delay: 103.106 ms

Loss rate: 1.26%

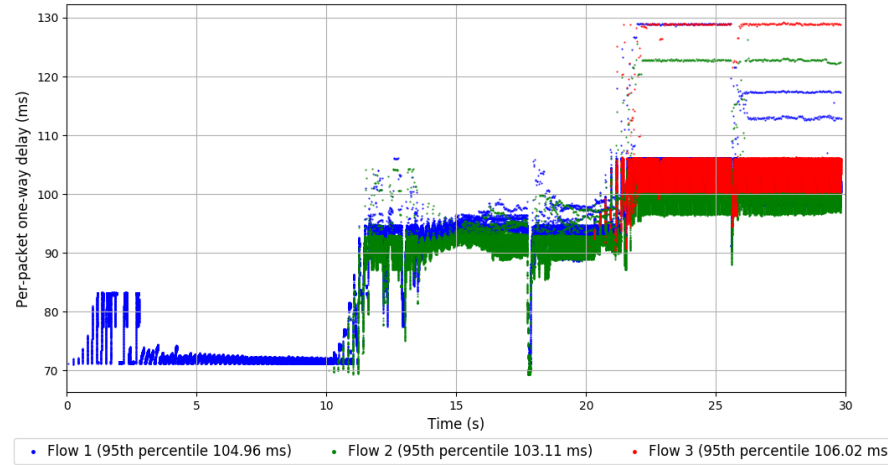
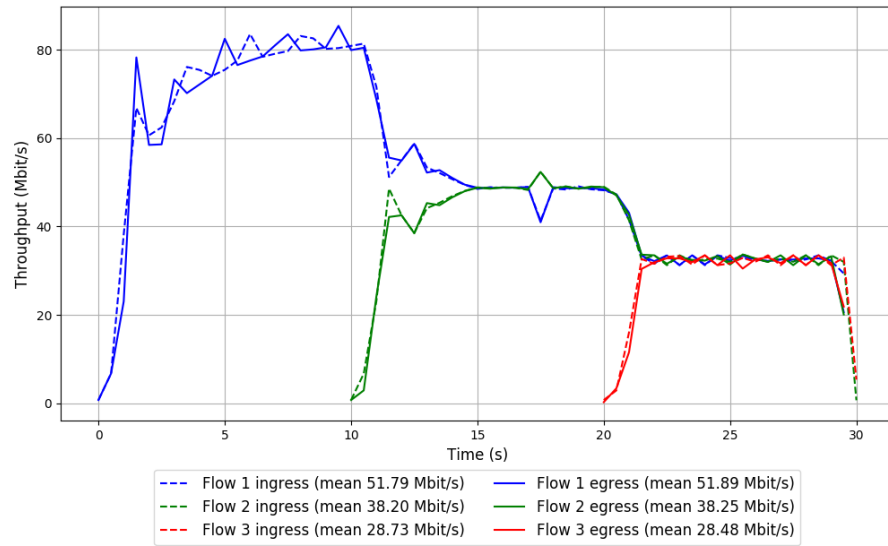
-- Flow 3:

Average throughput: 28.48 Mbit/s

95th percentile per-packet one-way delay: 106.020 ms

Loss rate: 3.95%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 13:53:58

End at: 2018-01-26 13:54:28

Local clock offset: -0.18 ms

Remote clock offset: 6.62 ms

Below is generated by plot.py at 2018-01-26 17:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 106.688 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 106.759 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 105.145 ms

Loss rate: 1.45%

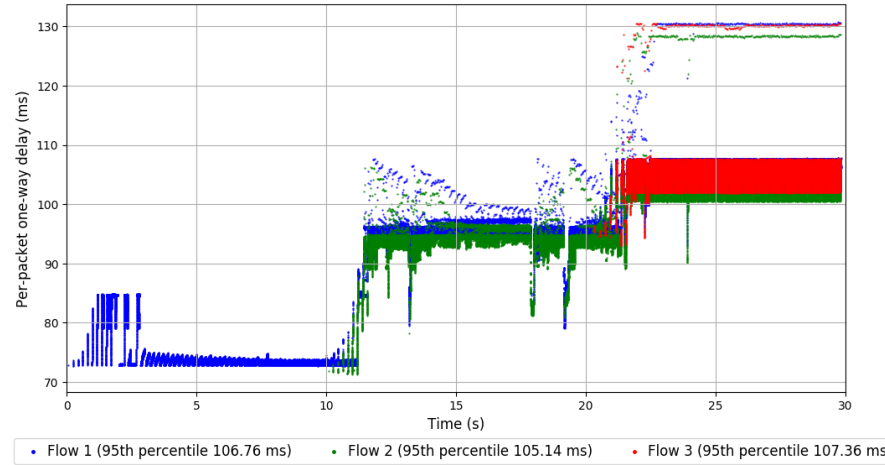
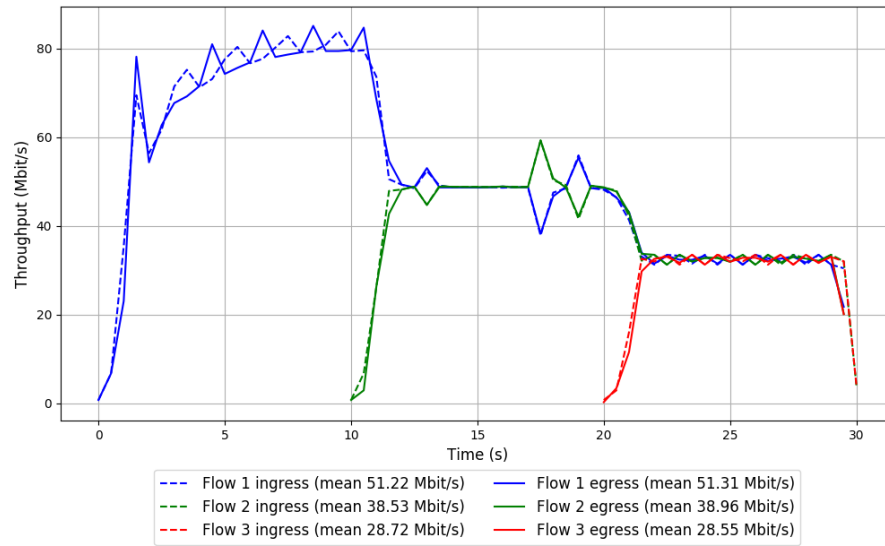
-- Flow 3:

Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 107.359 ms

Loss rate: 3.95%

Run 10: Report of TCP Cubic — Data Link

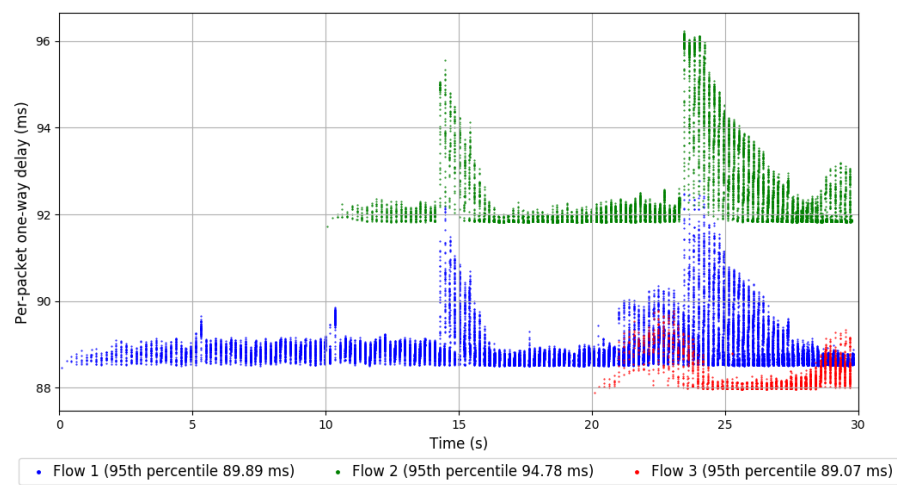
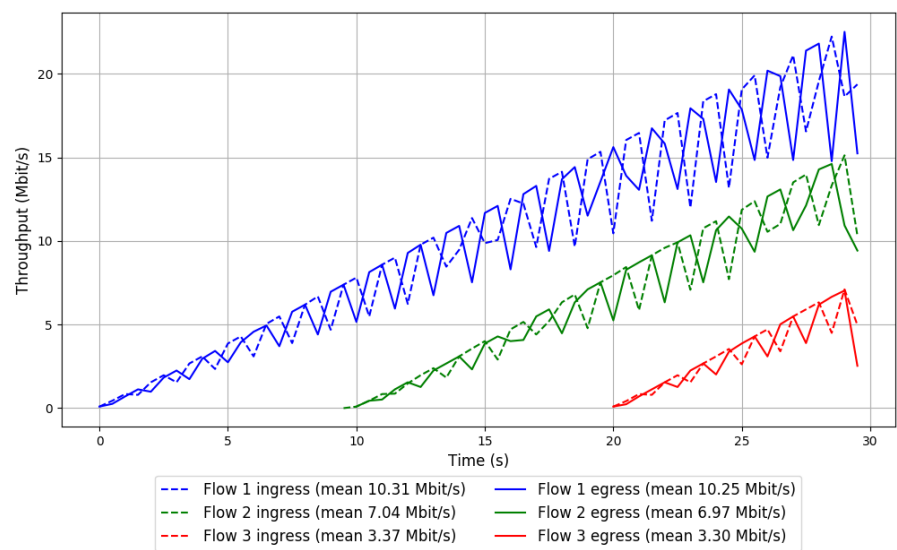


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 10:51:08
End at: 2018-01-26 10:51:38
Local clock offset: -0.209 ms
Remote clock offset: -12.337 ms

# Below is generated by plot.py at 2018-01-26 17:45:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 93.020 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 89.887 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 94.785 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 89.072 ms
Loss rate: 3.81%
```

Run 1: Report of LEDBAT — Data Link

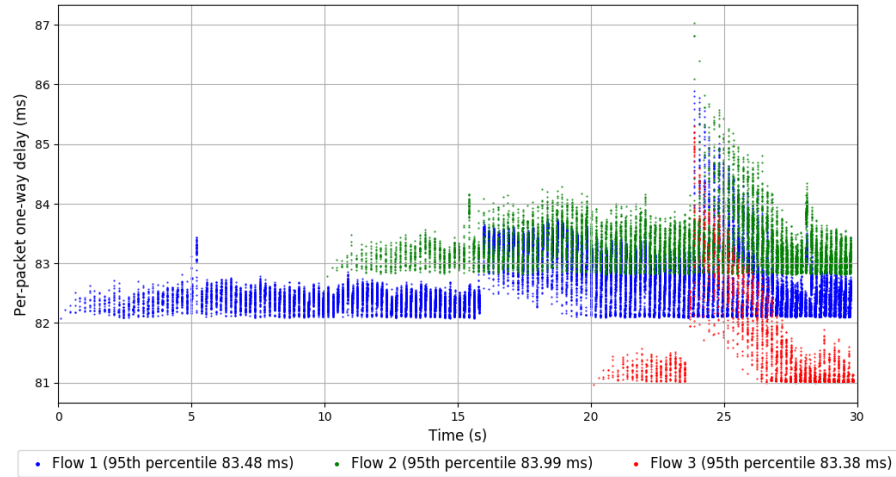
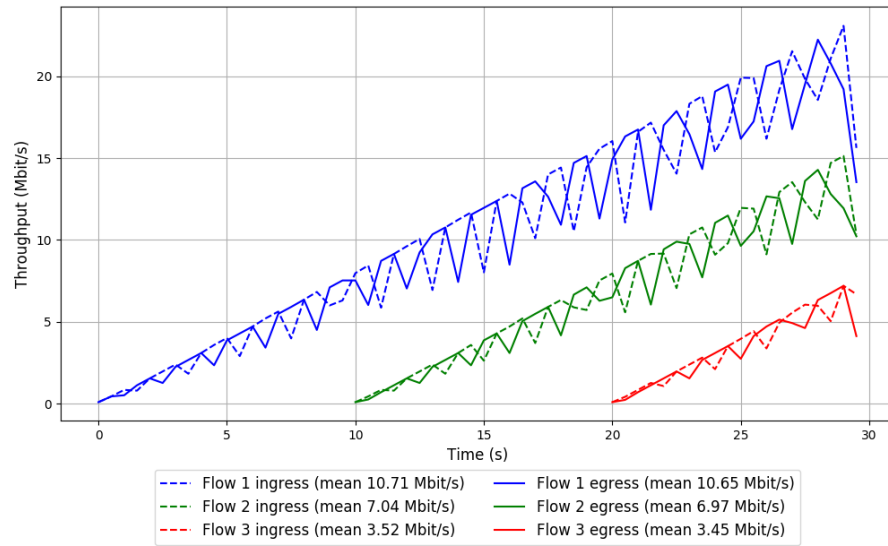


Run 2: Statistics of LEDBAT

Start at: 2018-01-26 11:12:18
End at: 2018-01-26 11:12:48
Local clock offset: -0.188 ms
Remote clock offset: -4.265 ms

Below is generated by plot.py at 2018-01-26 17:45:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.36 Mbit/s
95th percentile per-packet one-way delay: 83.694 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 83.480 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 83.988 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 83.376 ms
Loss rate: 3.67%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 11:33:36

End at: 2018-01-26 11:34:06

Local clock offset: -0.241 ms

Remote clock offset: 7.907 ms

Below is generated by plot.py at 2018-01-26 17:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.86 Mbit/s

95th percentile per-packet one-way delay: 72.989 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 73.190 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 71.508 ms

Loss rate: 1.83%

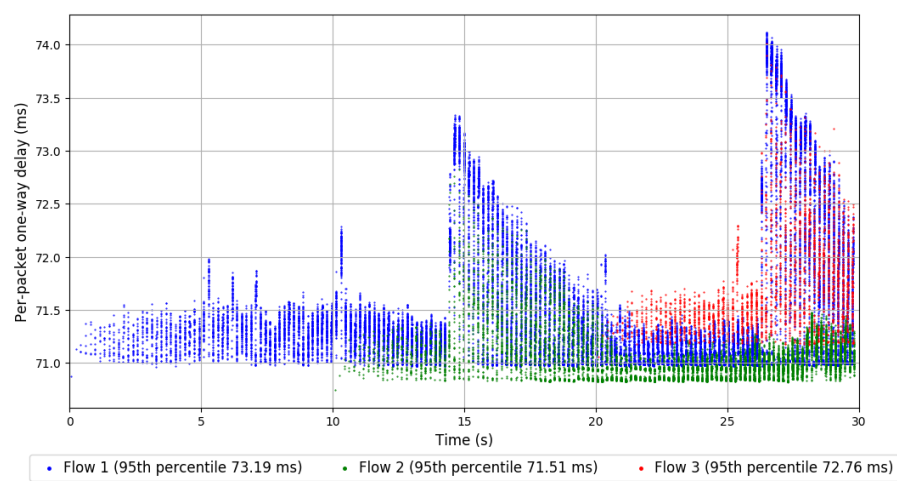
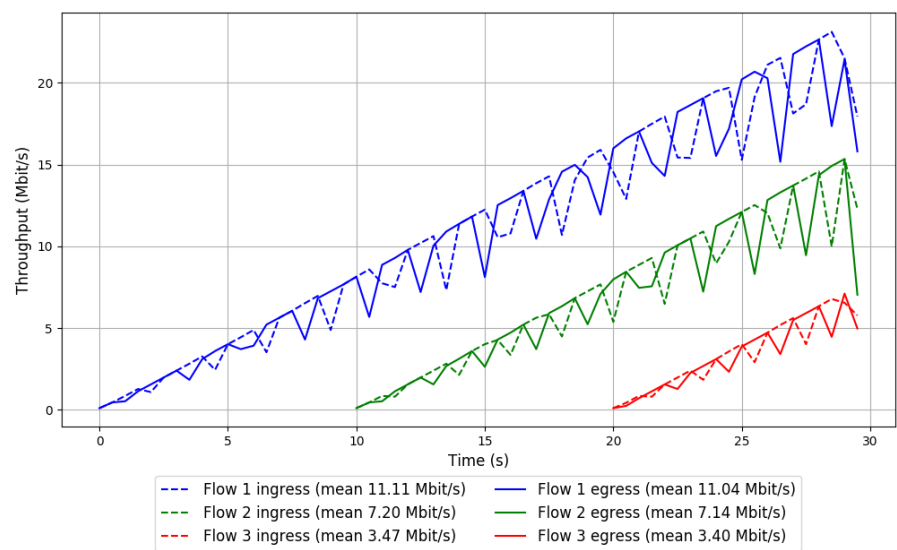
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 72.761 ms

Loss rate: 3.74%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 11:54:51

End at: 2018-01-26 11:55:21

Local clock offset: -0.36 ms

Remote clock offset: 7.16 ms

Below is generated by plot.py at 2018-01-26 17:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 73.232 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 10.79 Mbit/s

95th percentile per-packet one-way delay: 73.095 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 73.490 ms

Loss rate: 1.89%

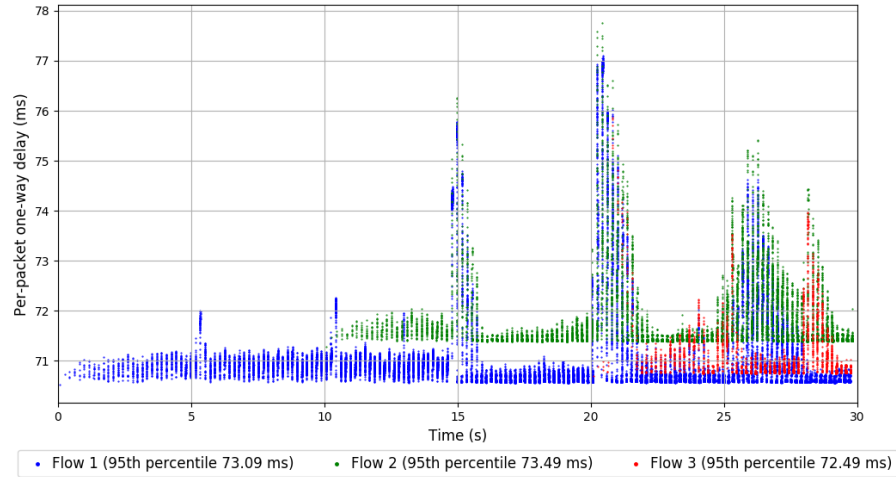
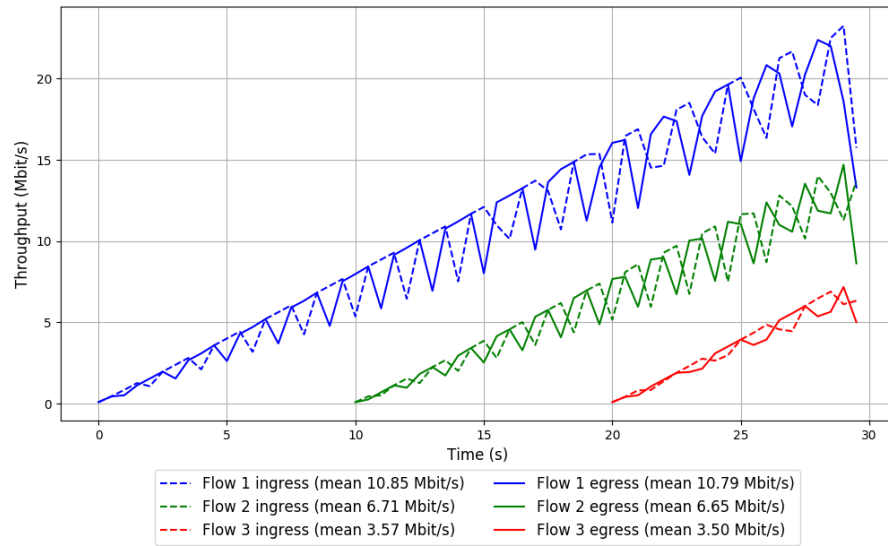
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 72.489 ms

Loss rate: 3.71%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 12:16:05

End at: 2018-01-26 12:16:35

Local clock offset: -0.321 ms

Remote clock offset: 7.604 ms

Below is generated by plot.py at 2018-01-26 17:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.78 Mbit/s

95th percentile per-packet one-way delay: 71.981 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 71.559 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 71.361 ms

Loss rate: 1.84%

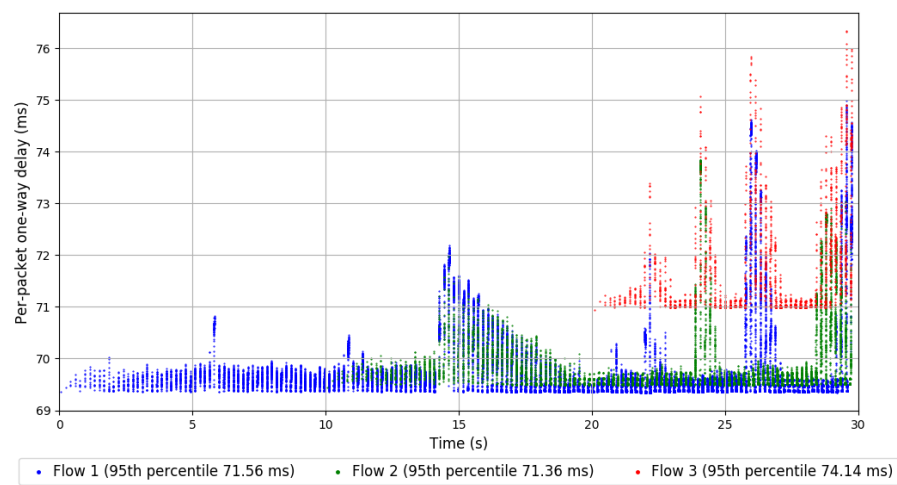
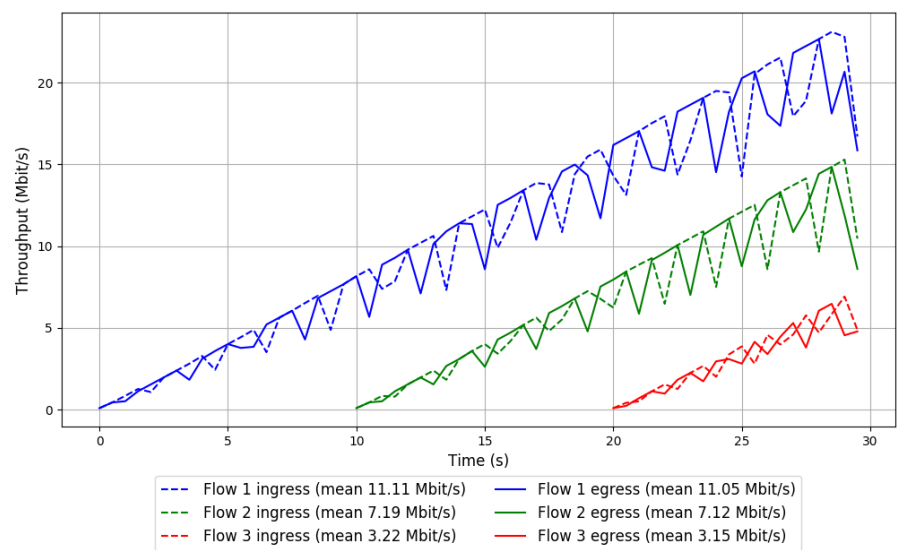
-- Flow 3:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 74.139 ms

Loss rate: 3.89%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-26 12:37:23

End at: 2018-01-26 12:37:53

Local clock offset: -0.212 ms

Remote clock offset: 2.026 ms

Below is generated by plot.py at 2018-01-26 17:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 80.044 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 80.499 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 77.710 ms

Loss rate: 1.87%

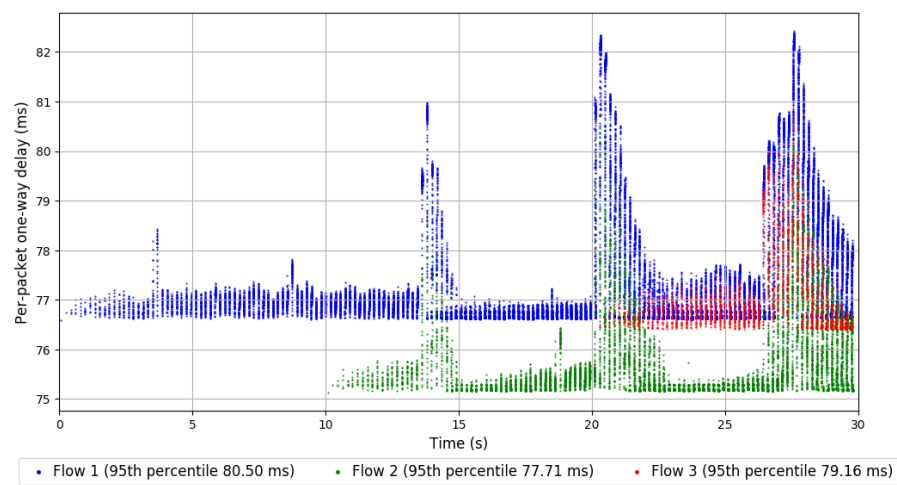
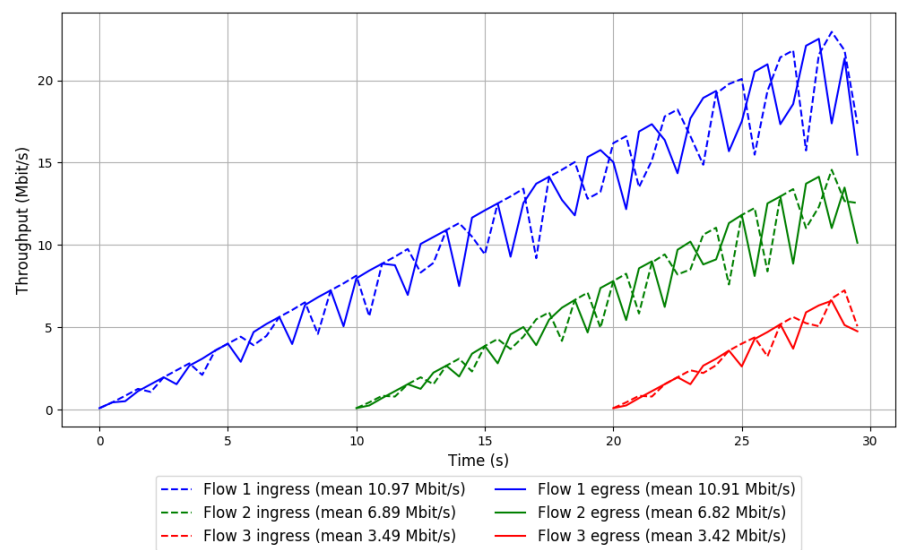
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 79.164 ms

Loss rate: 3.74%

Run 6: Report of LEDBAT — Data Link

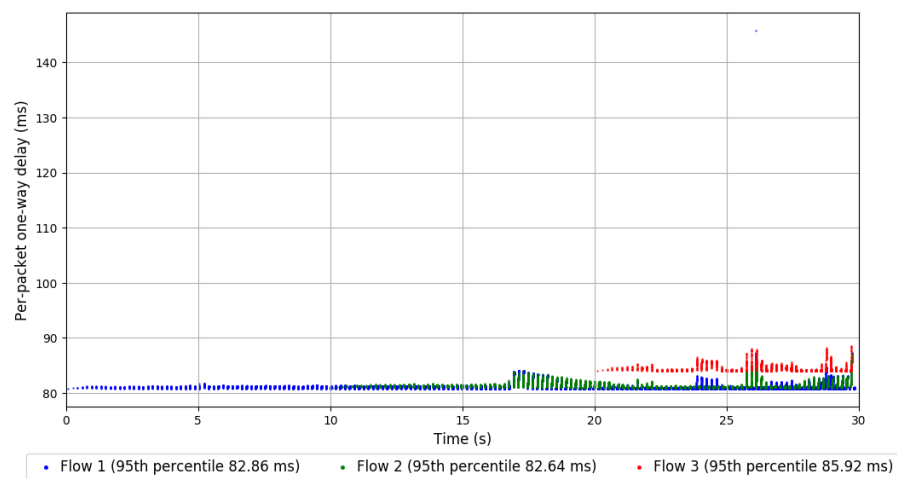
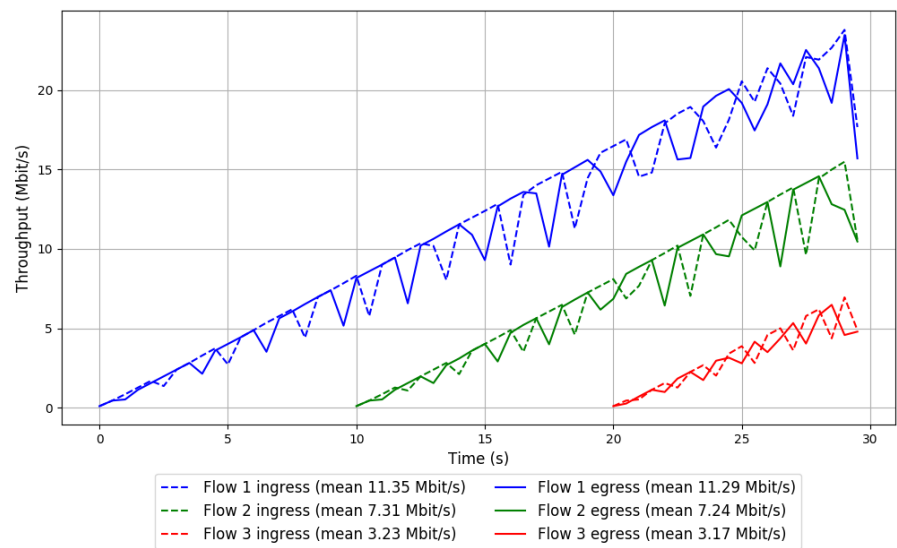


Run 7: Statistics of LEDBAT

Start at: 2018-01-26 12:58:58
End at: 2018-01-26 12:59:28
Local clock offset: -0.199 ms
Remote clock offset: -3.691 ms

Below is generated by plot.py at 2018-01-26 17:45:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.10 Mbit/s
95th percentile per-packet one-way delay: 84.089 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 82.865 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 82.643 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 85.919 ms
Loss rate: 3.89%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 13:20:19

End at: 2018-01-26 13:20:49

Local clock offset: -0.29 ms

Remote clock offset: 6.571 ms

Below is generated by plot.py at 2018-01-26 17:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.63 Mbit/s

95th percentile per-packet one-way delay: 74.090 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 11.06 Mbit/s

95th percentile per-packet one-way delay: 73.793 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 73.514 ms

Loss rate: 1.88%

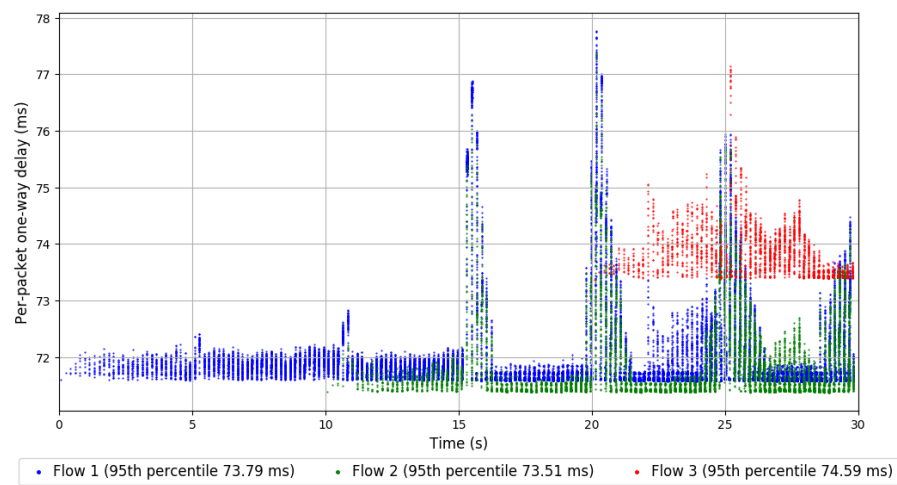
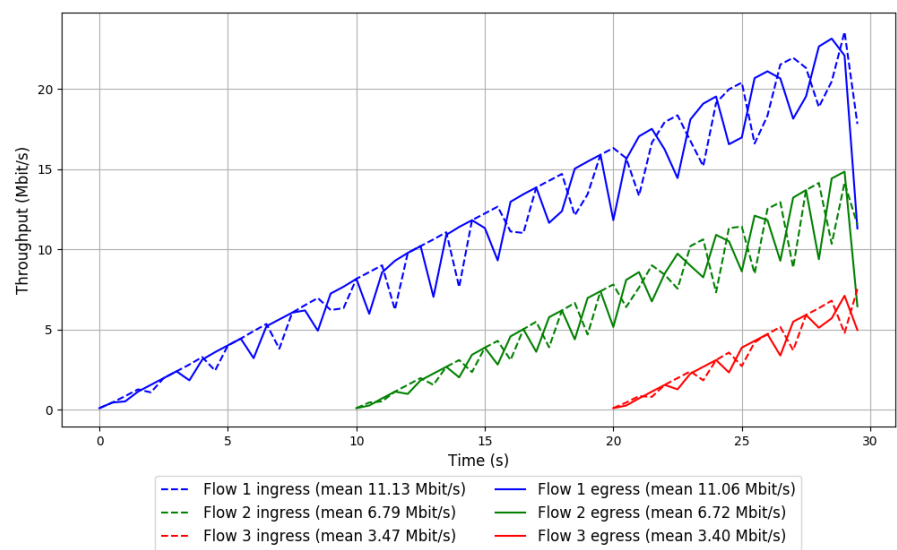
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 74.589 ms

Loss rate: 3.74%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 13:41:48

End at: 2018-01-26 13:42:18

Local clock offset: -0.318 ms

Remote clock offset: 6.794 ms

Below is generated by plot.py at 2018-01-26 17:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 72.302 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 72.388 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 6.74 Mbit/s

95th percentile per-packet one-way delay: 71.471 ms

Loss rate: 1.90%

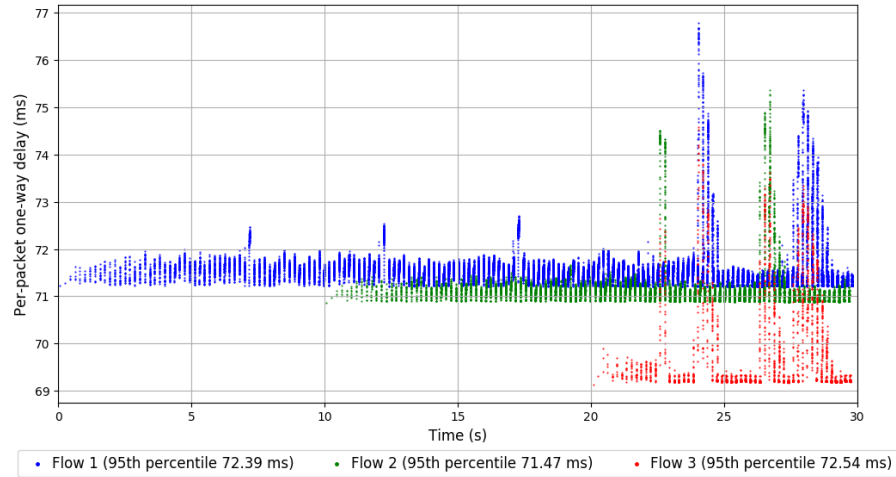
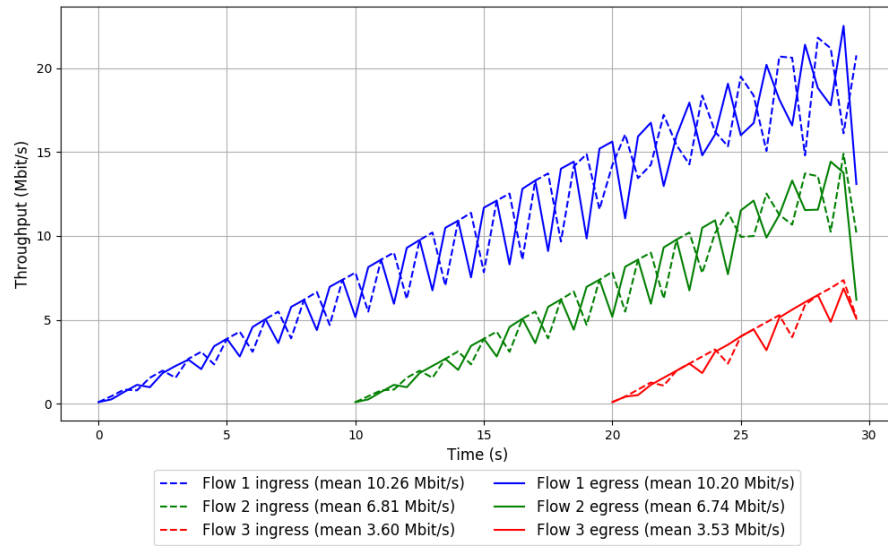
-- Flow 3:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 72.541 ms

Loss rate: 3.68%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-26 14:03:18

End at: 2018-01-26 14:03:48

Local clock offset: -0.159 ms

Remote clock offset: 6.38 ms

Below is generated by plot.py at 2018-01-26 17:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.13 Mbit/s

95th percentile per-packet one-way delay: 70.997 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 10.53 Mbit/s

95th percentile per-packet one-way delay: 71.063 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 70.374 ms

Loss rate: 1.87%

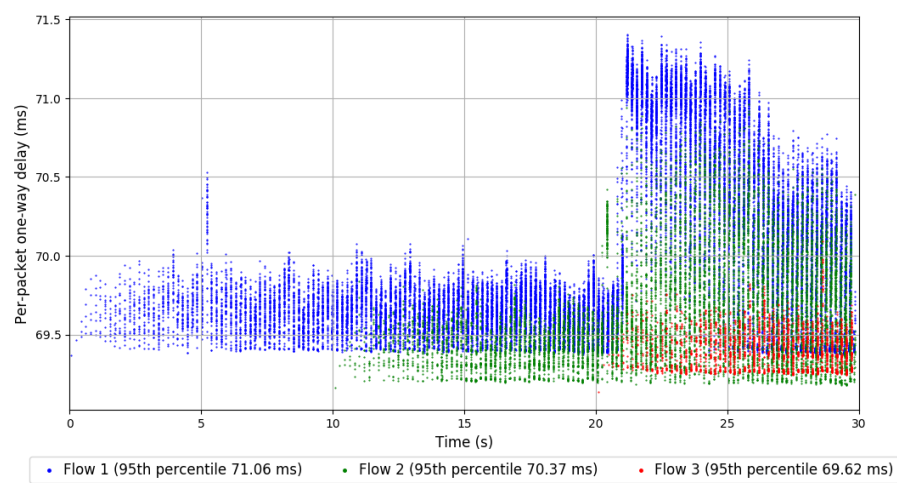
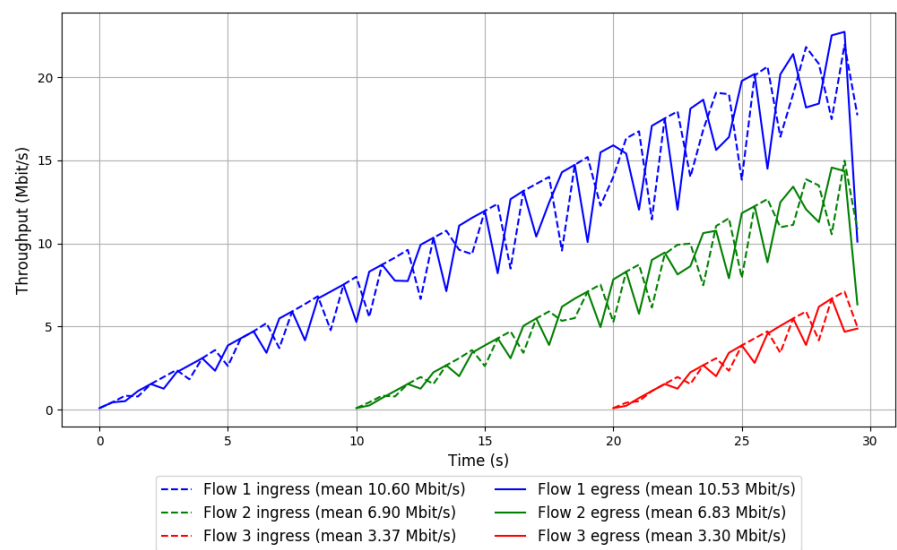
-- Flow 3:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 69.618 ms

Loss rate: 3.80%

Run 10: Report of LEDBAT — Data Link

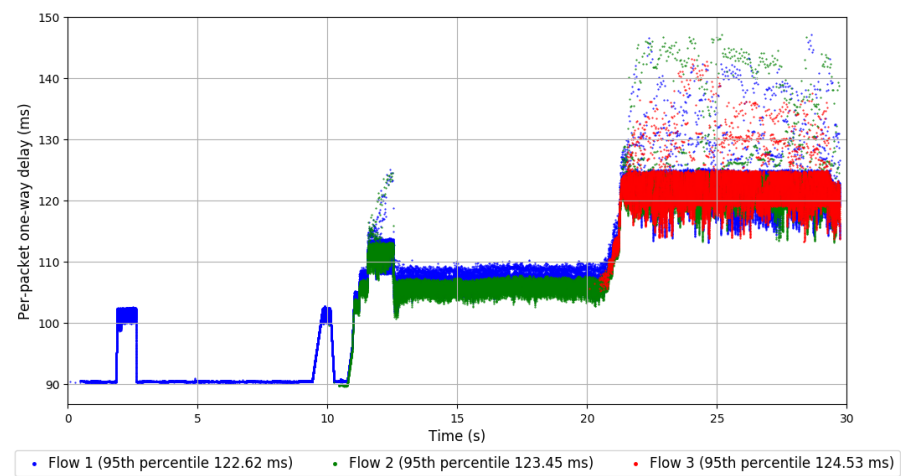
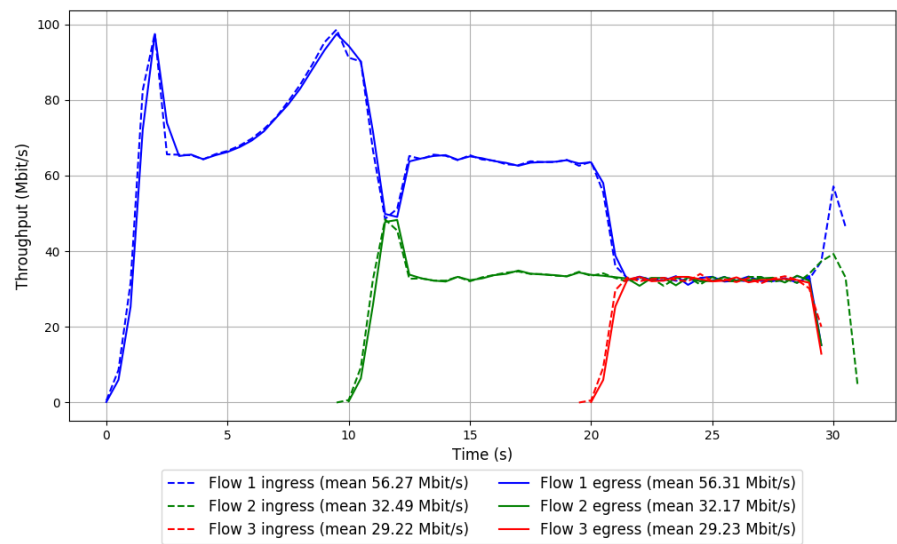


```
Run 1: Statistics of PCC

Start at: 2018-01-26 10:55:01
End at: 2018-01-26 10:55:31
Local clock offset: -0.15 ms
Remote clock offset: -12.265 ms

# Below is generated by plot.py at 2018-01-26 17:46:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 123.530 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 122.623 ms
Loss rate: 3.89%
-- Flow 2:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 123.454 ms
Loss rate: 7.83%
-- Flow 3:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 124.534 ms
Loss rate: 2.42%
```

Run 1: Report of PCC — Data Link

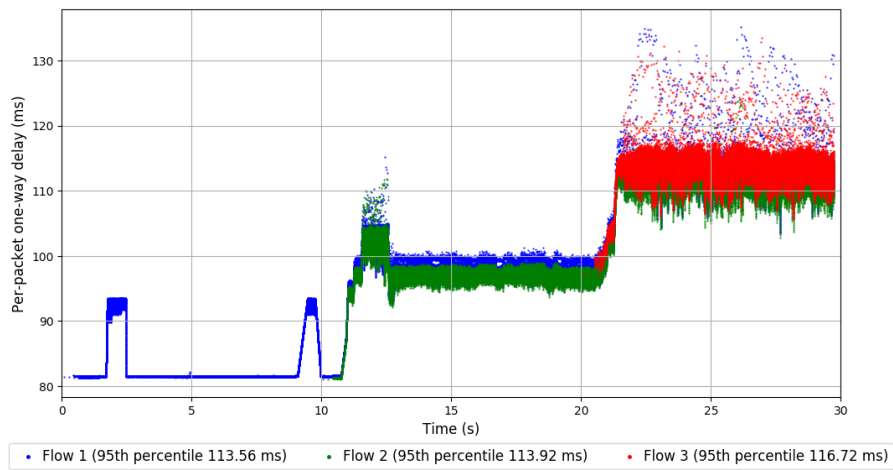
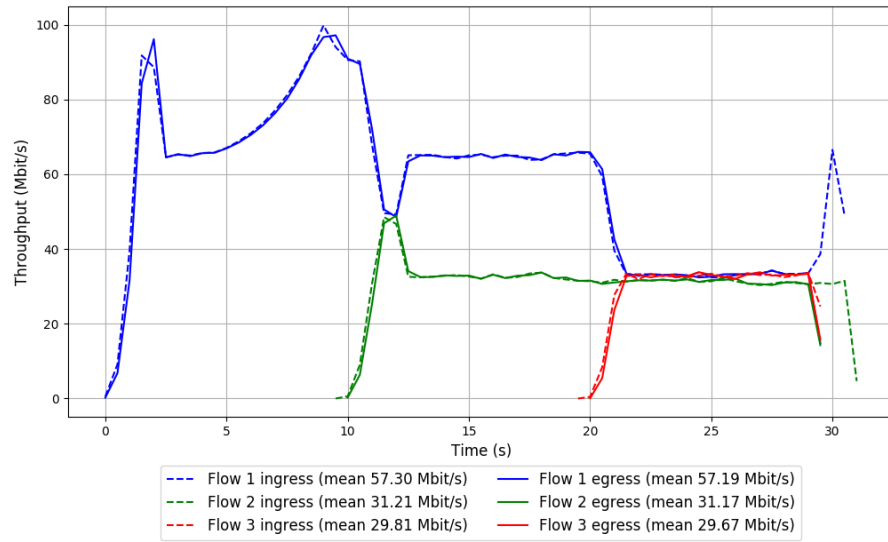


Run 2: Statistics of PCC

Start at: 2018-01-26 11:16:12
End at: 2018-01-26 11:16:42
Local clock offset: -0.187 ms
Remote clock offset: -3.201 ms

Below is generated by plot.py at 2018-01-26 17:46:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 114.686 ms
Loss rate: 4.65%
-- Flow 1:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 113.559 ms
Loss rate: 4.14%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 113.919 ms
Loss rate: 6.86%
-- Flow 3:
Average throughput: 29.67 Mbit/s
95th percentile per-packet one-way delay: 116.725 ms
Loss rate: 2.76%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 11:37:31

End at: 2018-01-26 11:38:01

Local clock offset: -0.26 ms

Remote clock offset: 3.099 ms

Below is generated by plot.py at 2018-01-26 17:46:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 93.929 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 93.594 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 94.411 ms

Loss rate: 1.79%

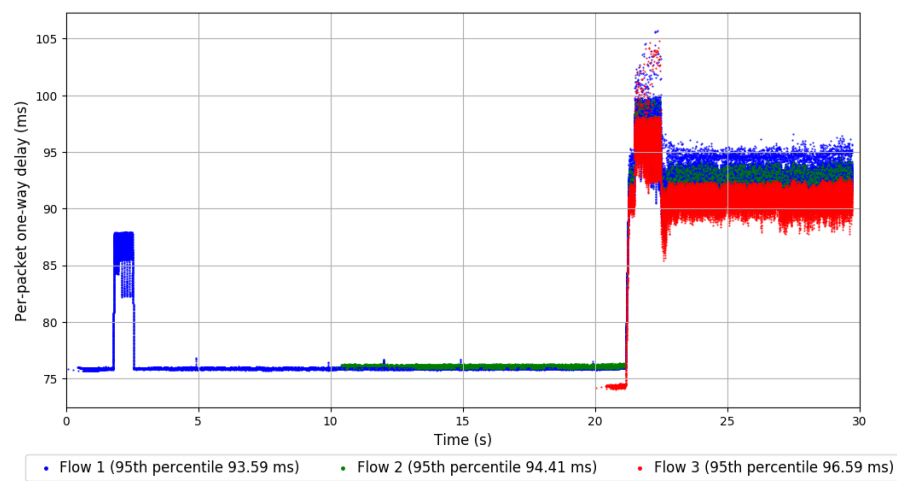
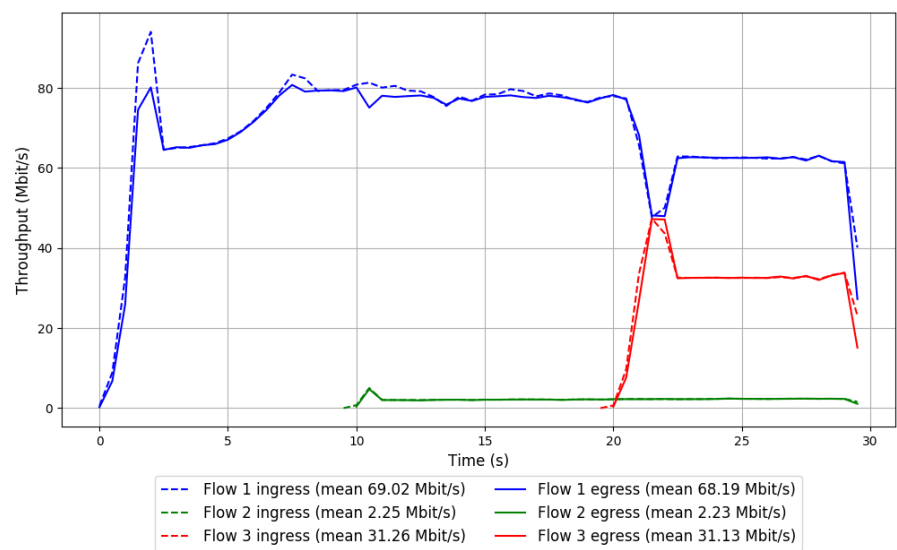
-- Flow 3:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 96.589 ms

Loss rate: 2.30%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 11:58:45

End at: 2018-01-26 11:59:15

Local clock offset: -0.426 ms

Remote clock offset: 8.945 ms

Below is generated by plot.py at 2018-01-26 17:46:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.52 Mbit/s

95th percentile per-packet one-way delay: 71.833 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 70.358 ms

Loss rate: 3.22%

-- Flow 2:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 71.897 ms

Loss rate: 3.86%

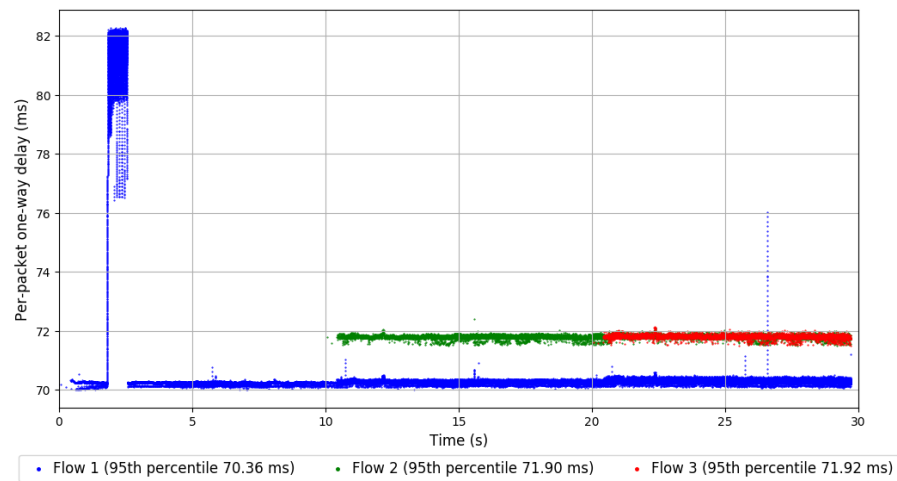
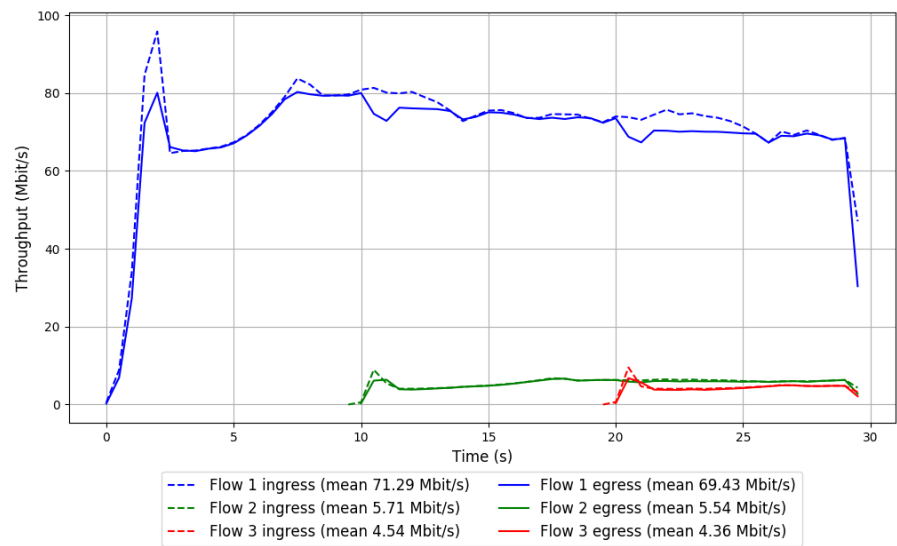
-- Flow 3:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 71.916 ms

Loss rate: 5.78%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 12:19:59

End at: 2018-01-26 12:20:29

Local clock offset: -0.296 ms

Remote clock offset: 1.969 ms

Below is generated by plot.py at 2018-01-26 17:46:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.43 Mbit/s

95th percentile per-packet one-way delay: 110.263 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 110.158 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 108.574 ms

Loss rate: 6.43%

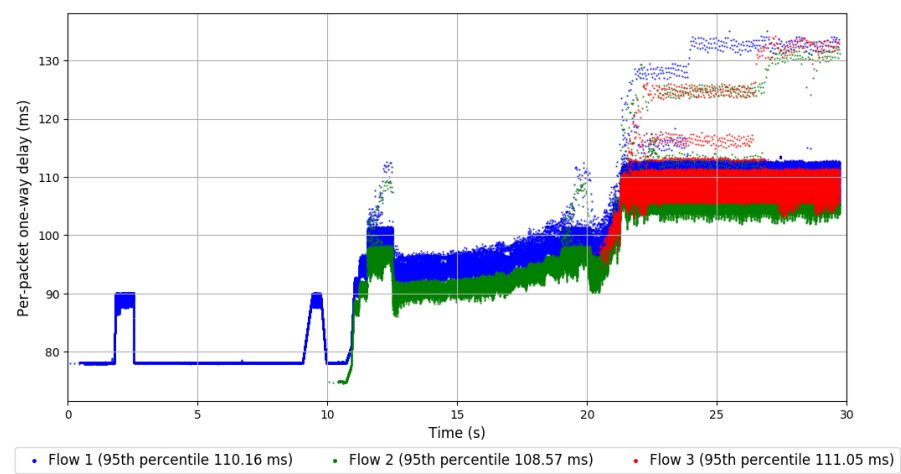
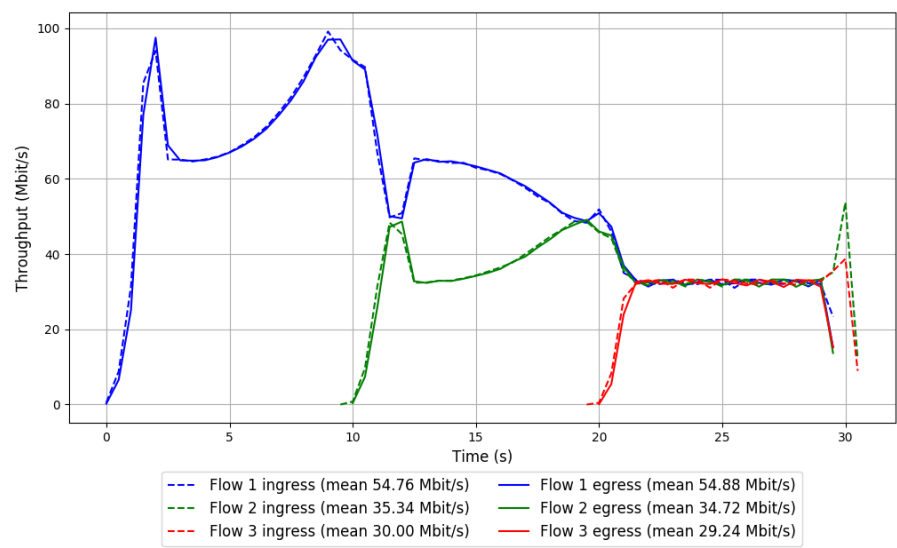
-- Flow 3:

Average throughput: 29.24 Mbit/s

95th percentile per-packet one-way delay: 111.050 ms

Loss rate: 11.89%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 12:41:18

End at: 2018-01-26 12:41:48

Local clock offset: -0.204 ms

Remote clock offset: 1.965 ms

Below is generated by plot.py at 2018-01-26 17:46:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 108.096 ms

Loss rate: 4.61%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 105.748 ms

Loss rate: 4.22%

-- Flow 2:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 107.145 ms

Loss rate: 6.63%

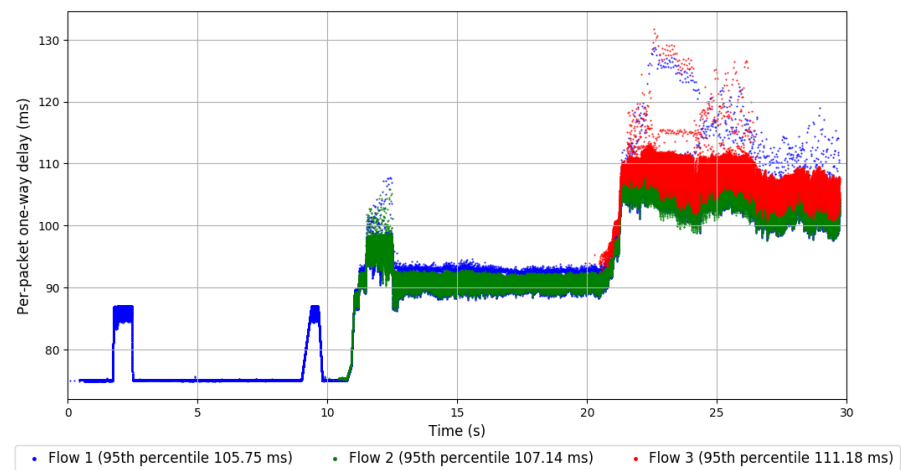
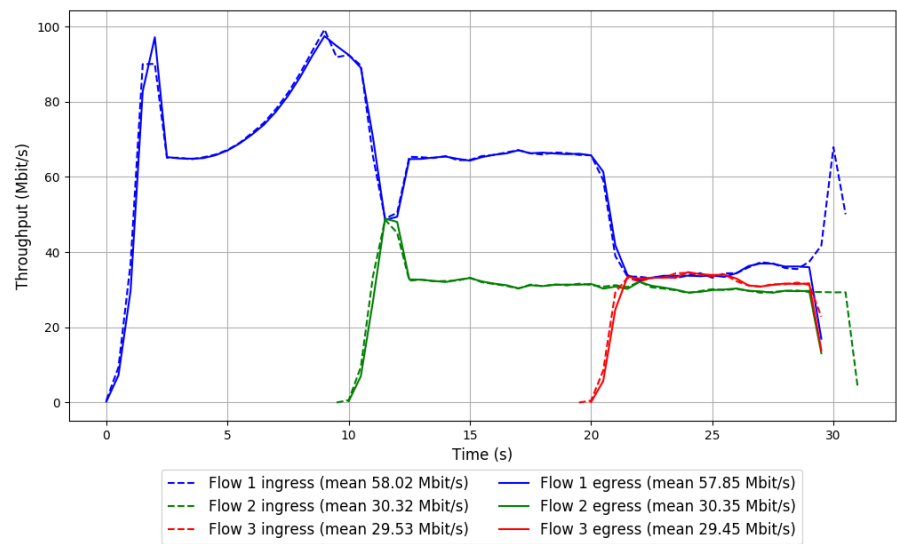
-- Flow 3:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 111.184 ms

Loss rate: 2.64%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-26 13:02:53

End at: 2018-01-26 13:03:23

Local clock offset: -0.199 ms

Remote clock offset: -3.4 ms

Below is generated by plot.py at 2018-01-26 17:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.55 Mbit/s

95th percentile per-packet one-way delay: 114.869 ms

Loss rate: 5.58%

-- Flow 1:

Average throughput: 56.04 Mbit/s

95th percentile per-packet one-way delay: 113.827 ms

Loss rate: 5.73%

-- Flow 2:

Average throughput: 33.24 Mbit/s

95th percentile per-packet one-way delay: 116.043 ms

Loss rate: 1.10%

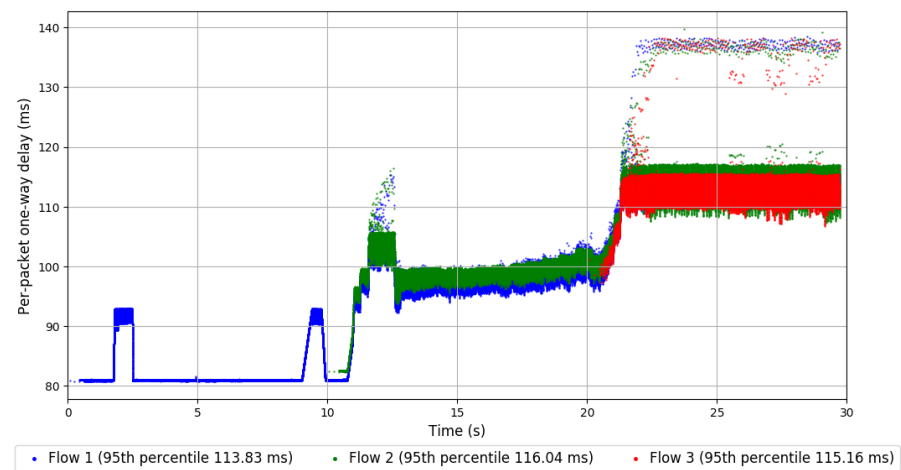
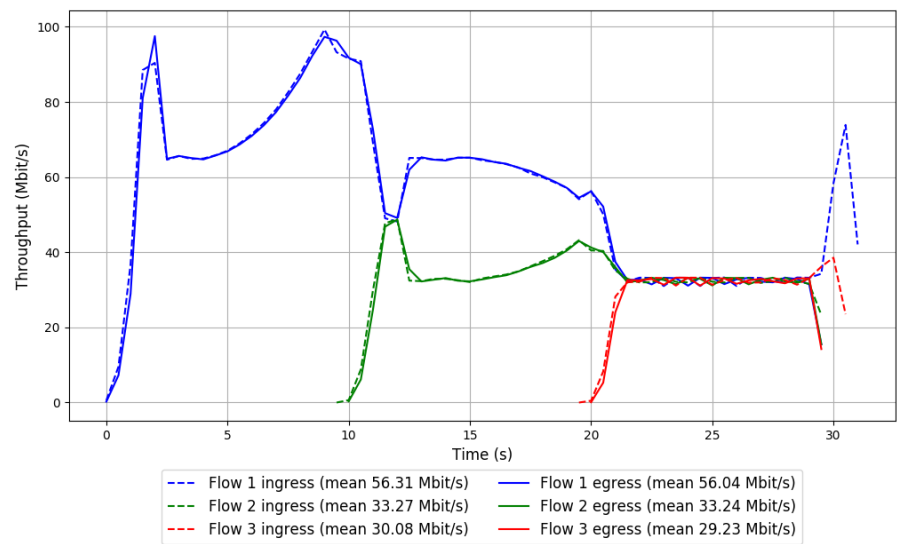
-- Flow 3:

Average throughput: 29.23 Mbit/s

95th percentile per-packet one-way delay: 115.160 ms

Loss rate: 13.85%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

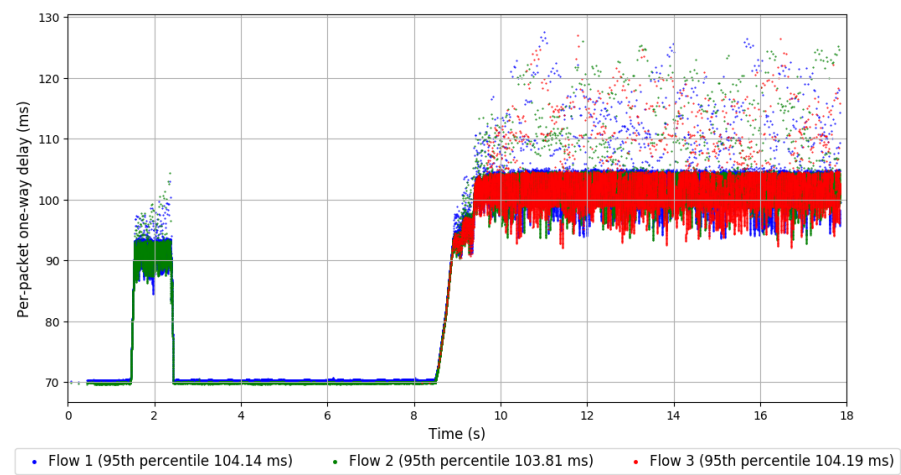
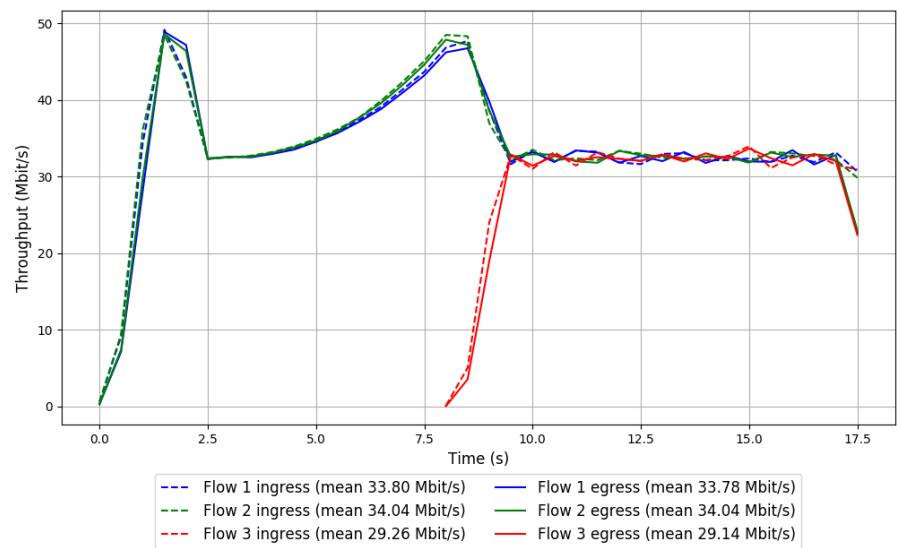
Start at: 2018-01-26 13:24:26

End at: 2018-01-26 13:24:56

Local clock offset: -0.257 ms

Remote clock offset: 8.289 ms

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

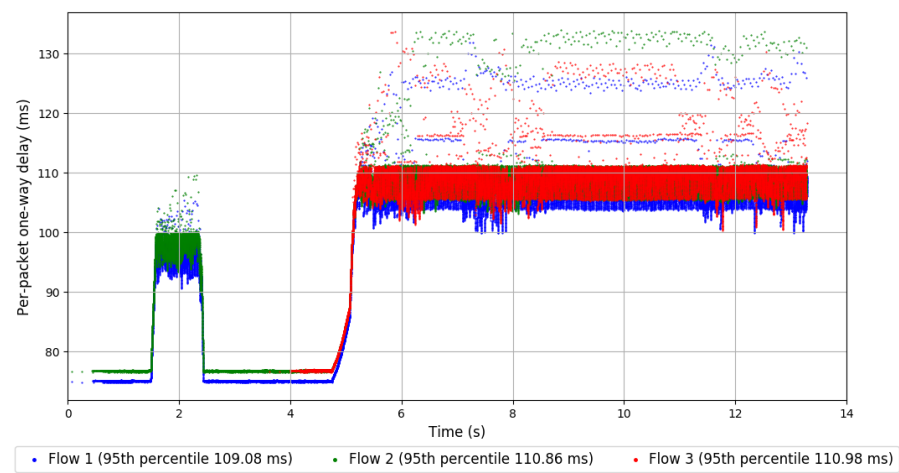
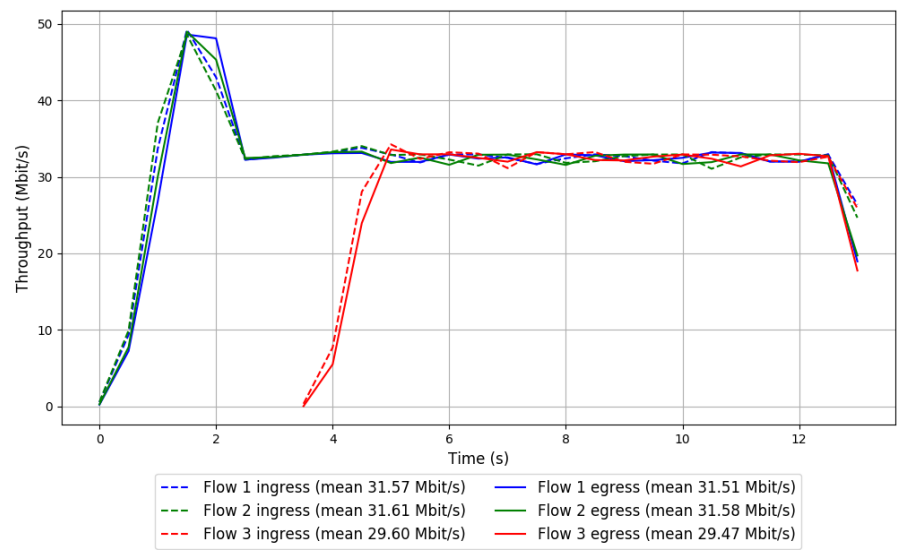
Start at: 2018-01-26 13:45:52

End at: 2018-01-26 13:46:22

Local clock offset: -0.243 ms

Remote clock offset: 0.95 ms

Run 9: Report of PCC — Data Link

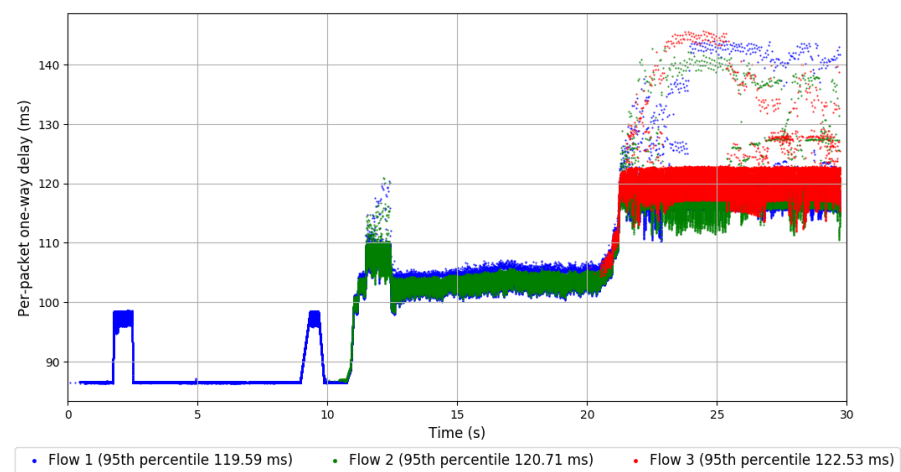
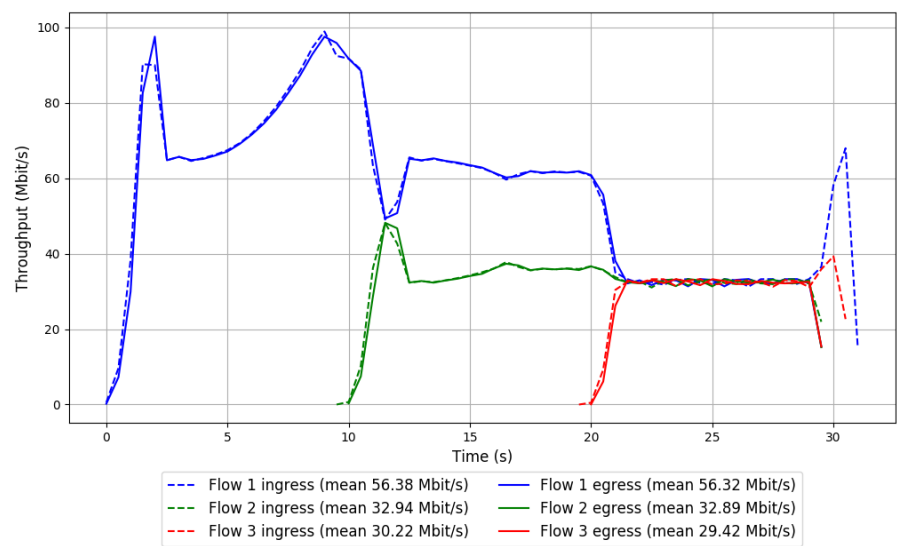


Run 10: Statistics of PCC

Start at: 2018-01-26 14:07:12
End at: 2018-01-26 14:07:42
Local clock offset: -0.081 ms
Remote clock offset: -9.285 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 120.957 ms
Loss rate: 5.01%
-- Flow 1:
Average throughput: 56.32 Mbit/s
95th percentile per-packet one-way delay: 119.594 ms
Loss rate: 4.86%
-- Flow 2:
Average throughput: 32.89 Mbit/s
95th percentile per-packet one-way delay: 120.710 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 122.529 ms
Loss rate: 13.62%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

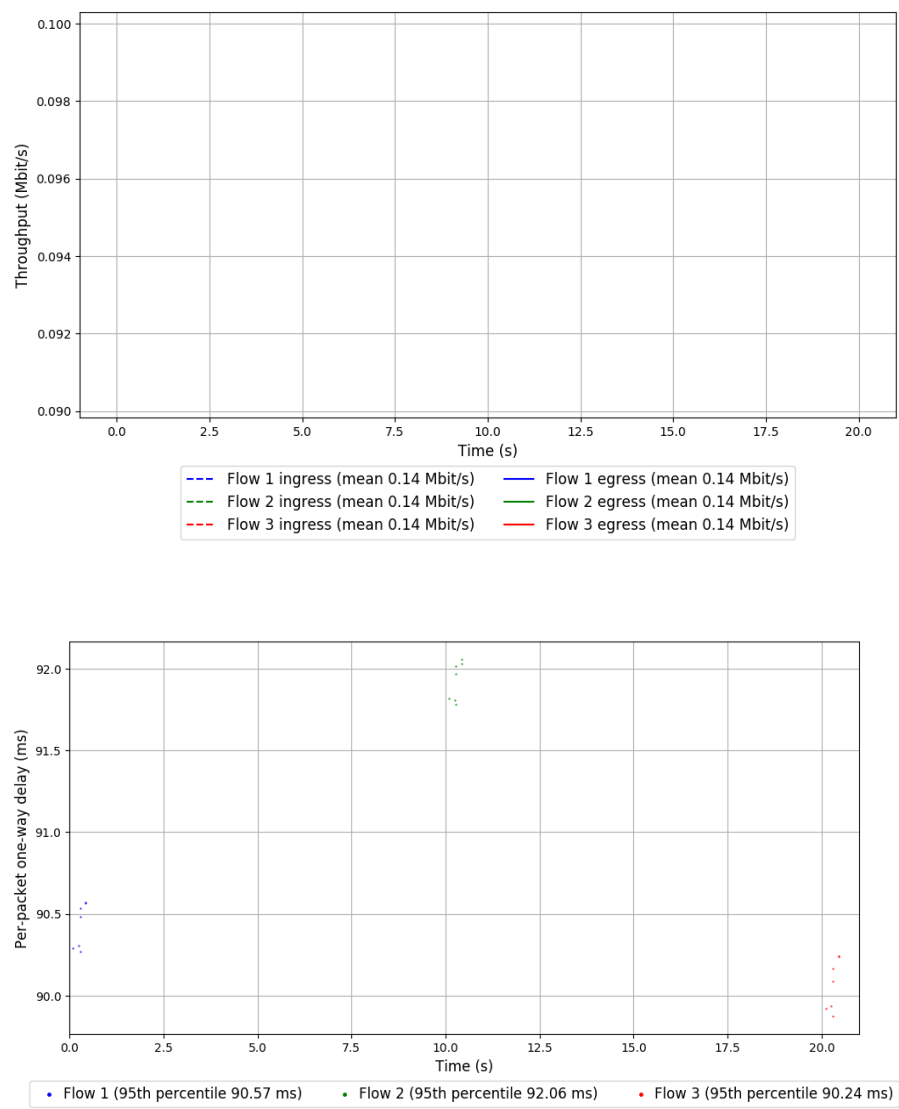
Start at: 2018-01-26 10:44:25

End at: 2018-01-26 10:44:55

Local clock offset: -0.149 ms

Remote clock offset: -12.546 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

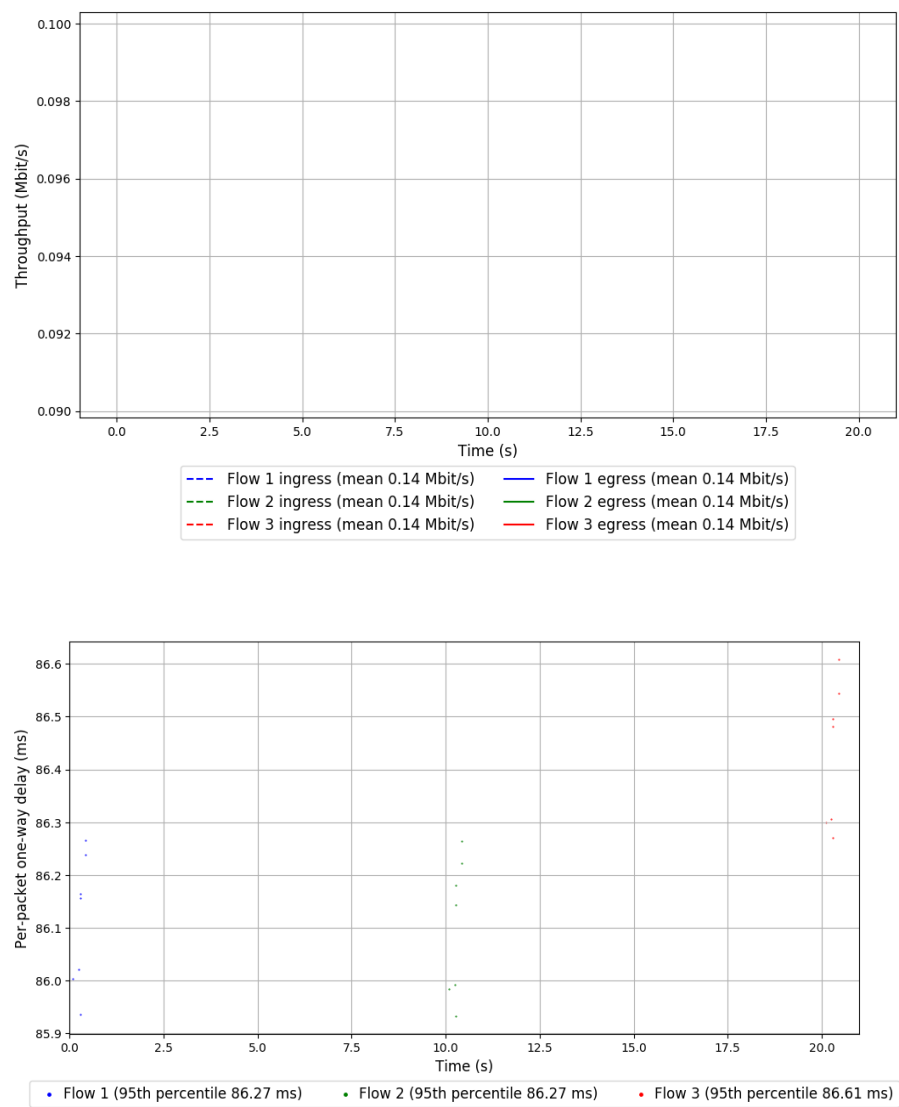
Start at: 2018-01-26 11:05:38

End at: 2018-01-26 11:06:08

Local clock offset: -0.155 ms

Remote clock offset: -8.238 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

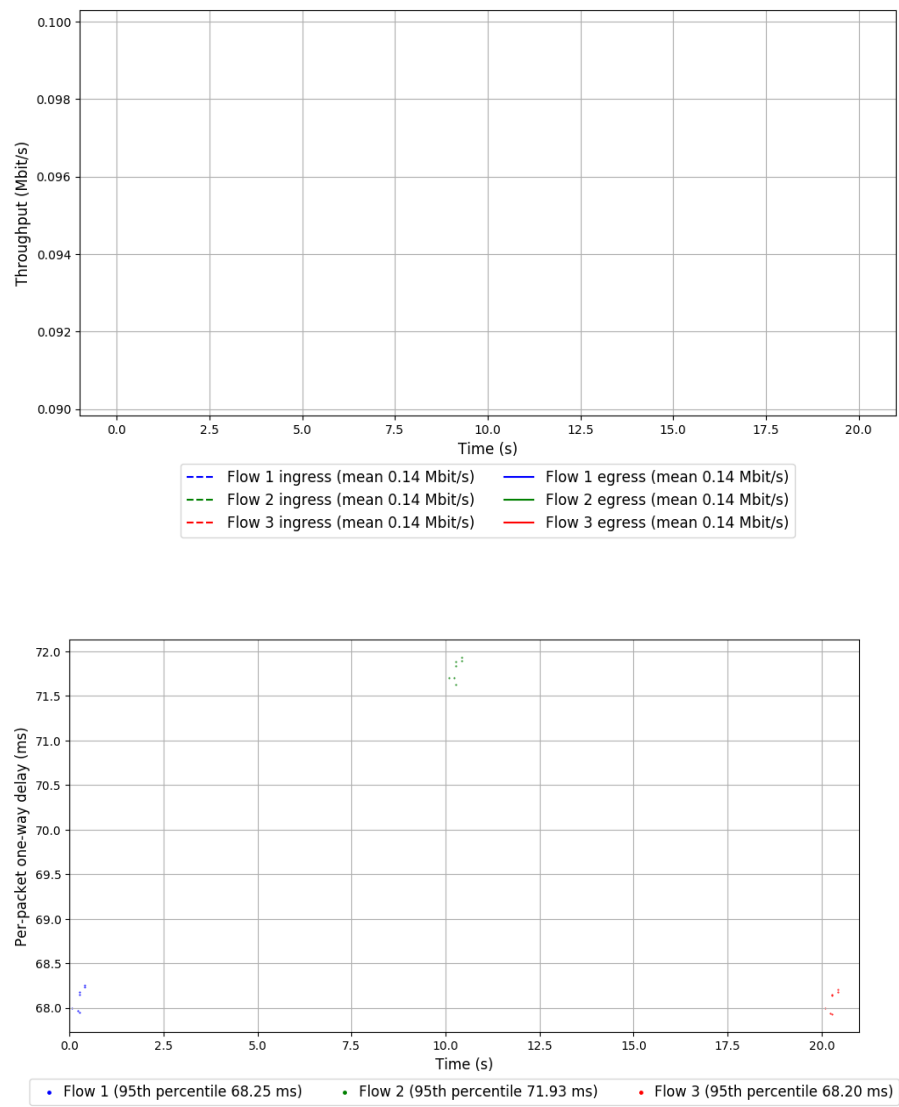
Start at: 2018-01-26 11:26:53

End at: 2018-01-26 11:27:23

Local clock offset: -0.199 ms

Remote clock offset: 8.625 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

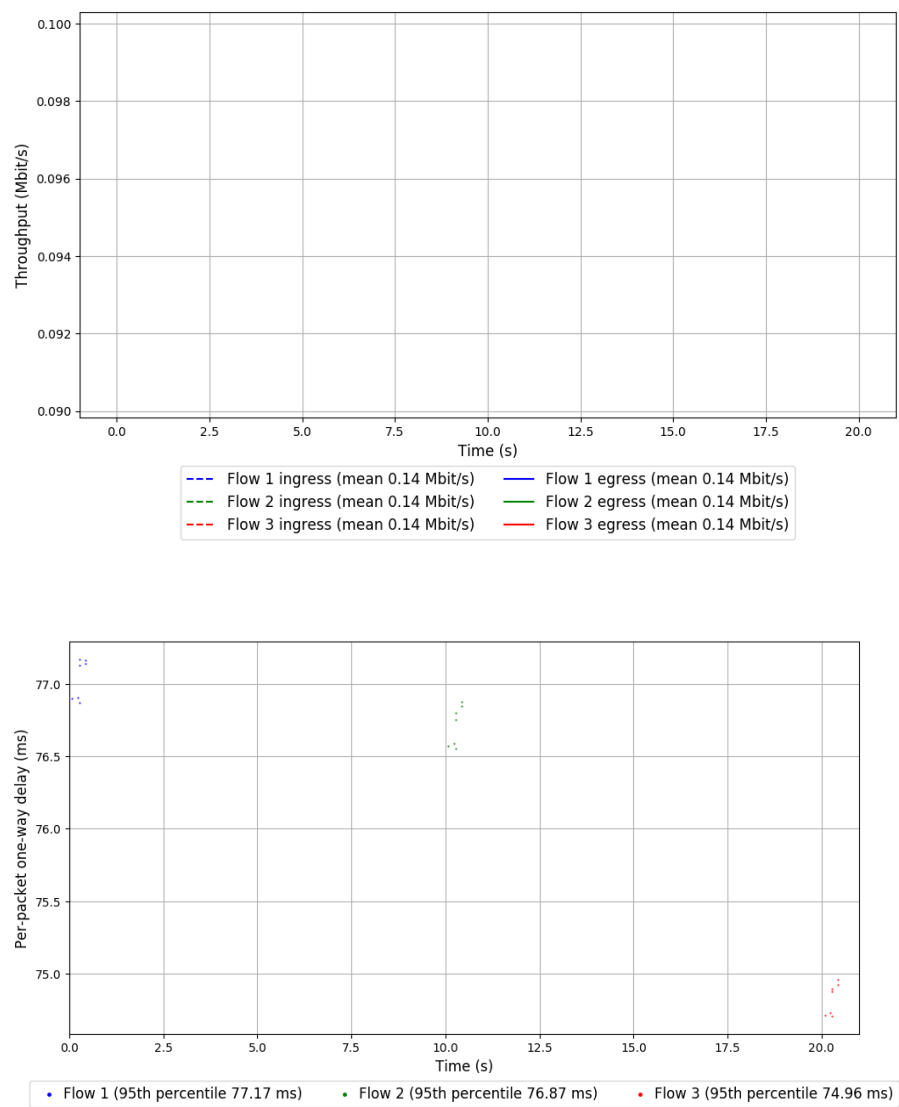
Start at: 2018-01-26 11:48:15

End at: 2018-01-26 11:48:45

Local clock offset: -0.331 ms

Remote clock offset: 2.228 ms

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

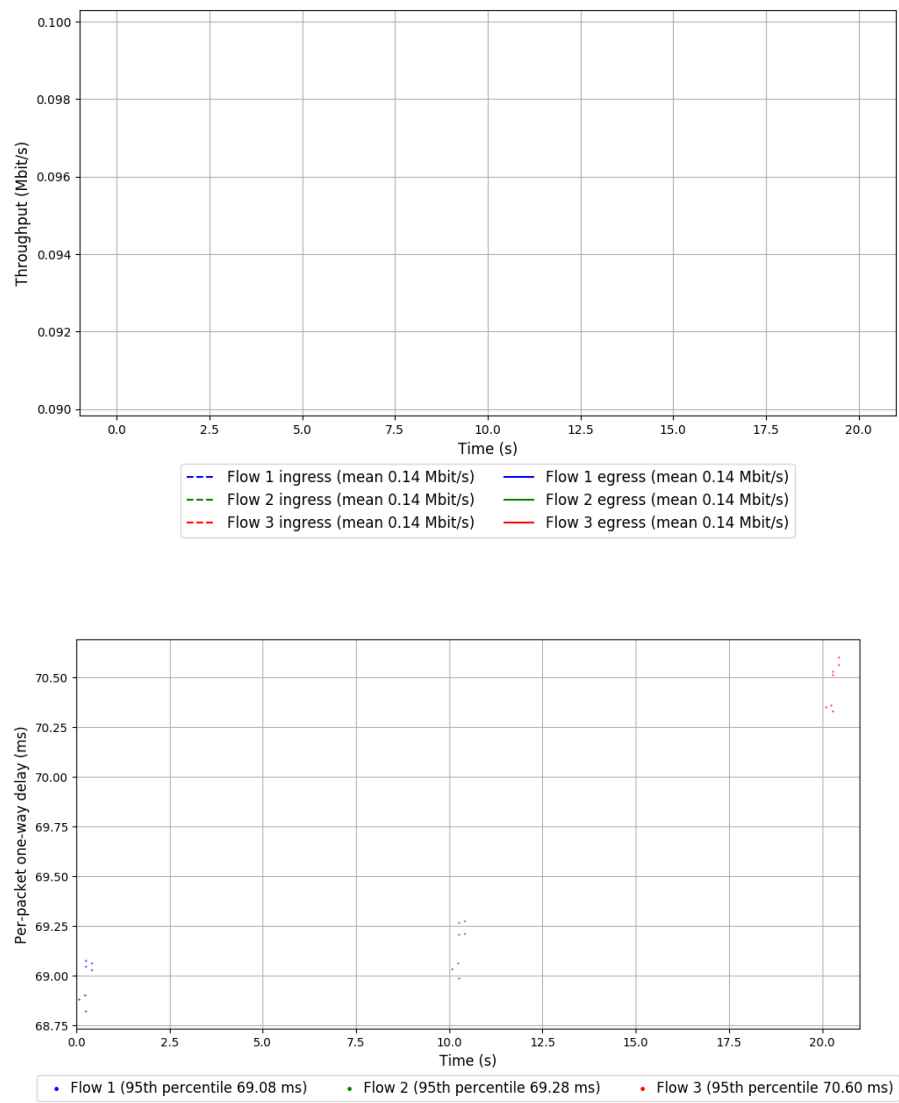
Start at: 2018-01-26 12:09:21

End at: 2018-01-26 12:09:51

Local clock offset: -0.346 ms

Remote clock offset: 7.812 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

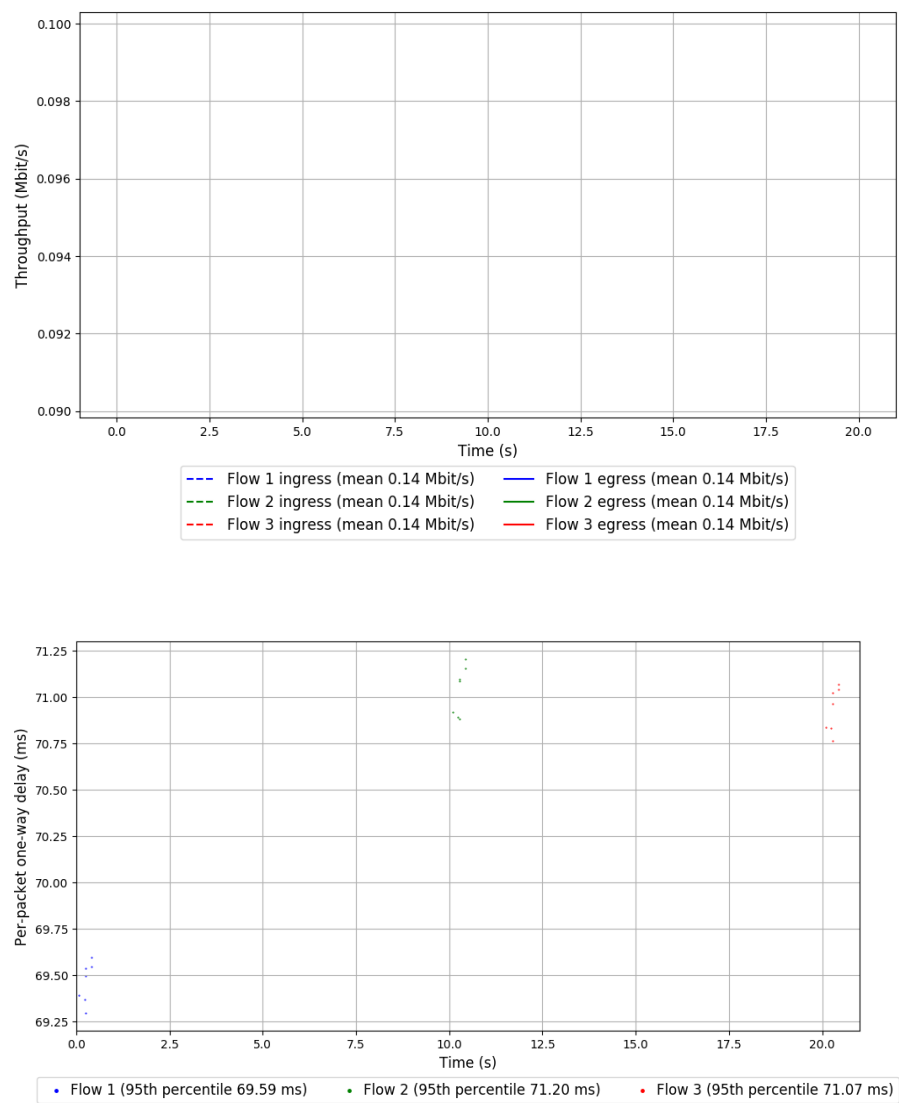
Start at: 2018-01-26 12:30:40

End at: 2018-01-26 12:31:10

Local clock offset: -0.239 ms

Remote clock offset: 7.706 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

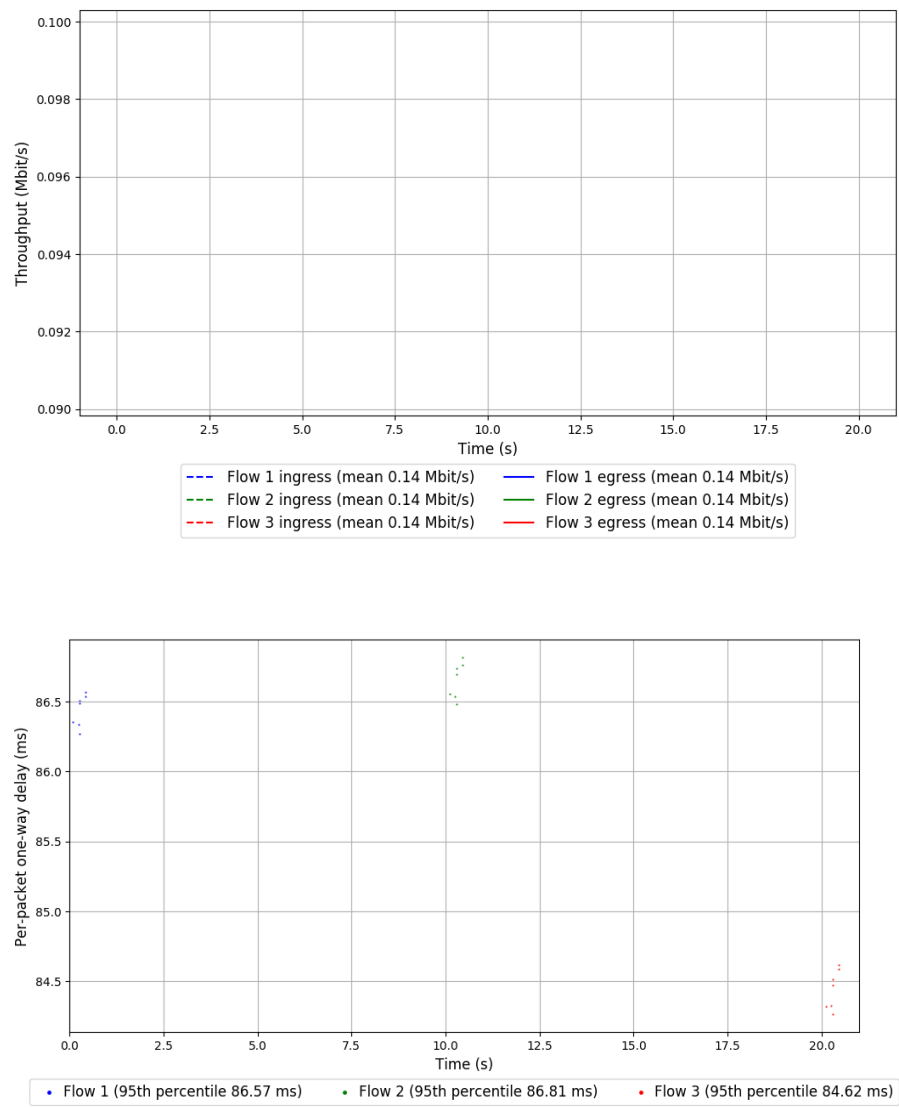
Start at: 2018-01-26 12:52:03

End at: 2018-01-26 12:52:33

Local clock offset: -0.206 ms

Remote clock offset: -7.546 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

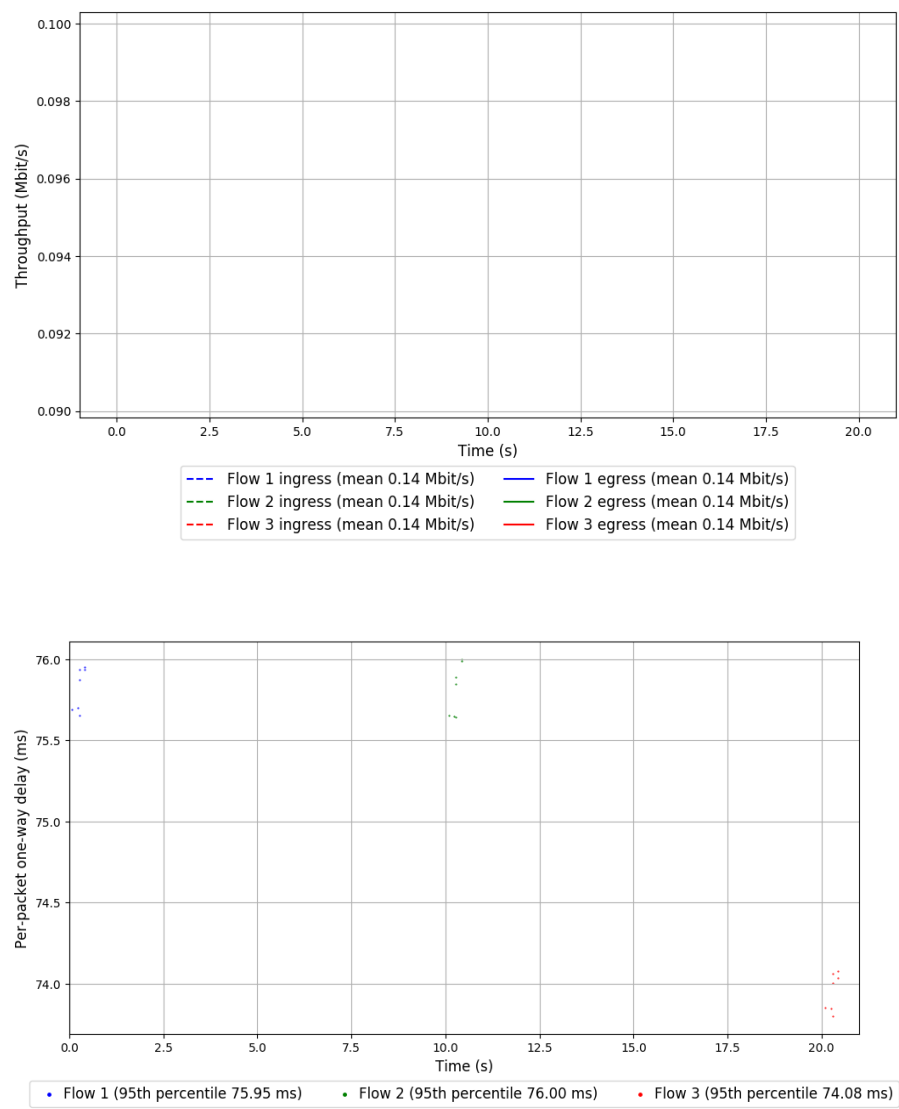
Start at: 2018-01-26 13:13:37

End at: 2018-01-26 13:14:07

Local clock offset: -0.246 ms

Remote clock offset: 3.254 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

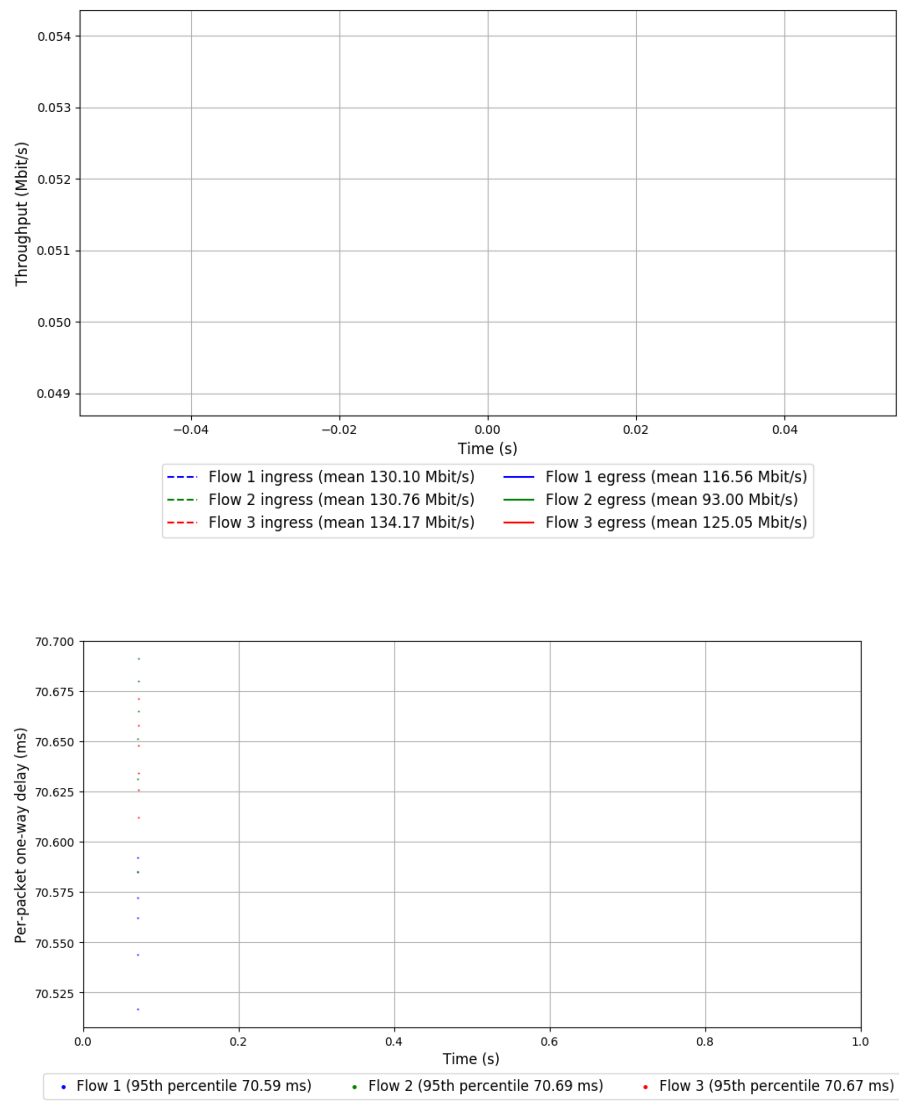
Start at: 2018-01-26 13:35:04

End at: 2018-01-26 13:35:34

Local clock offset: -0.285 ms

Remote clock offset: 7.074 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

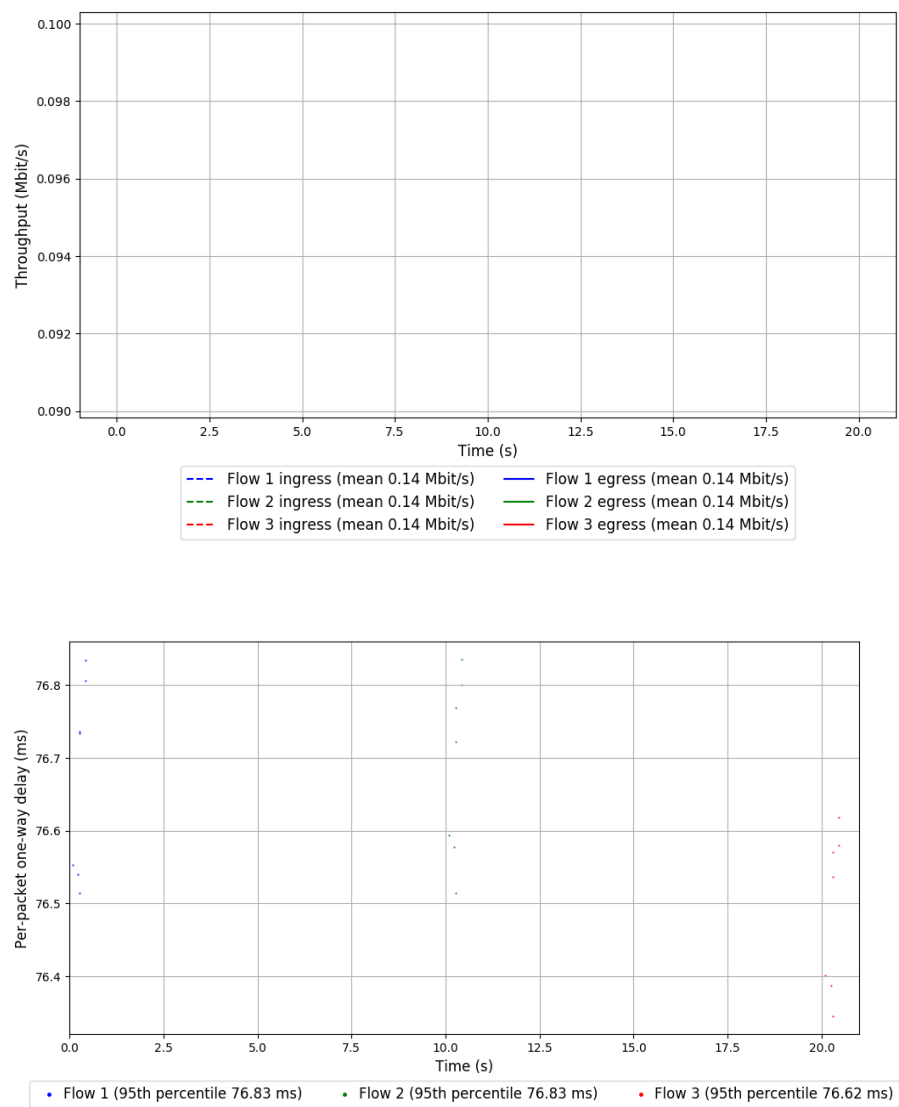
Start at: 2018-01-26 13:56:34

End at: 2018-01-26 13:57:04

Local clock offset: -0.238 ms

Remote clock offset: 0.829 ms

Run 10: Report of QUIC Cubic — Data Link

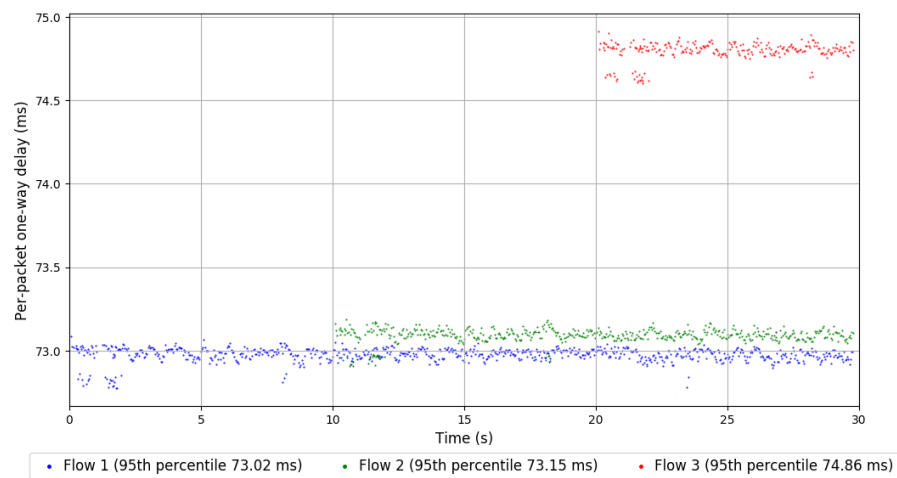
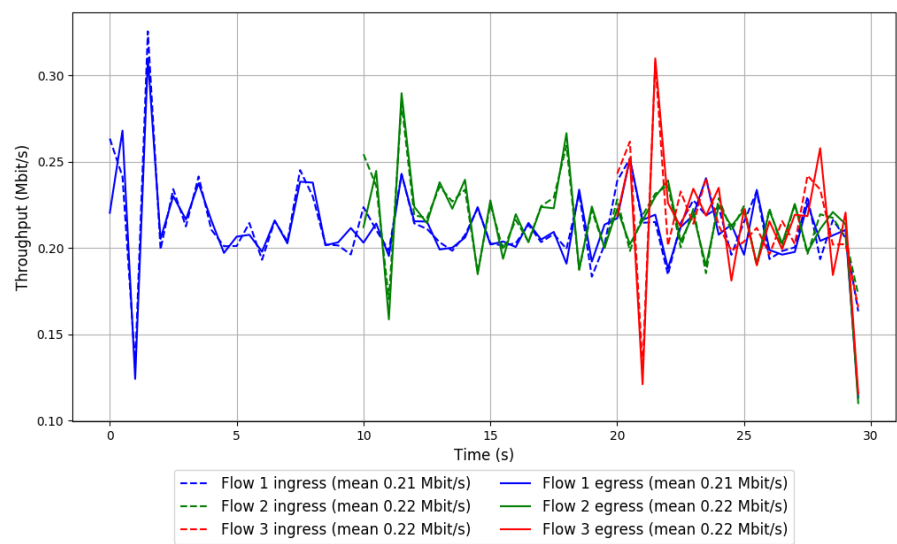


```
Run 1: Statistics of SReAM

Start at: 2018-01-26 10:39:12
End at: 2018-01-26 10:39:42
Local clock offset: -0.196 ms
Remote clock offset: 4.474 ms

# Below is generated by plot.py at 2018-01-26 17:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 74.825 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 73.024 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 73.148 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 74.857 ms
Loss rate: 1.52%
```

Run 1: Report of SReAM — Data Link

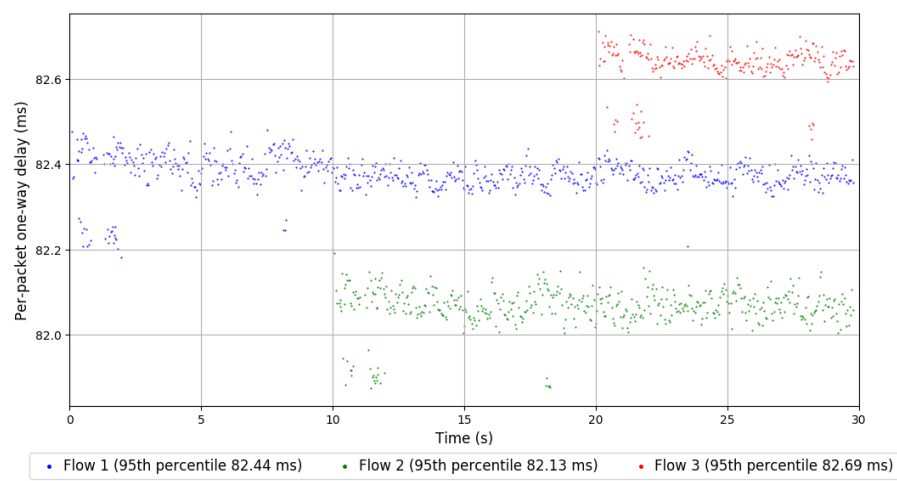
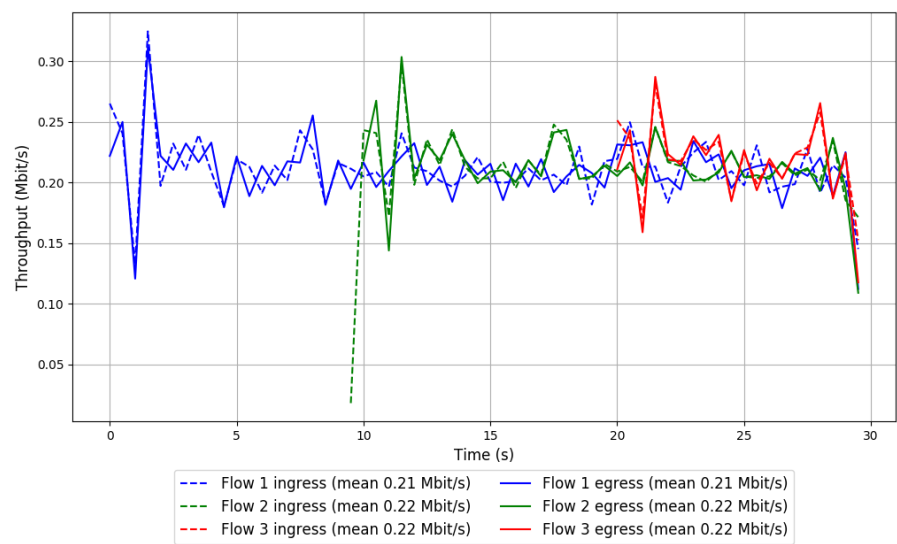


Run 2: Statistics of SReAM

Start at: 2018-01-26 11:00:24
End at: 2018-01-26 11:00:54
Local clock offset: -0.157 ms
Remote clock offset: -4.459 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 82.654 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 82.436 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.128 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.686 ms
Loss rate: 1.53%

Run 2: Report of SReAM — Data Link

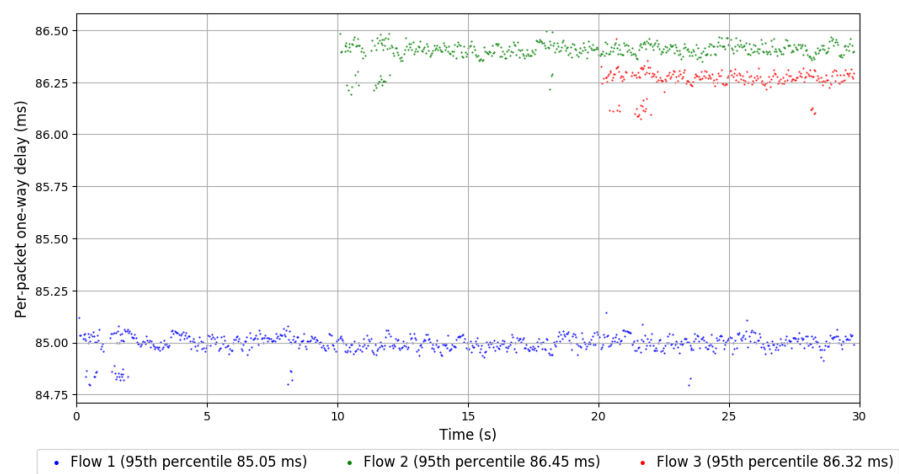
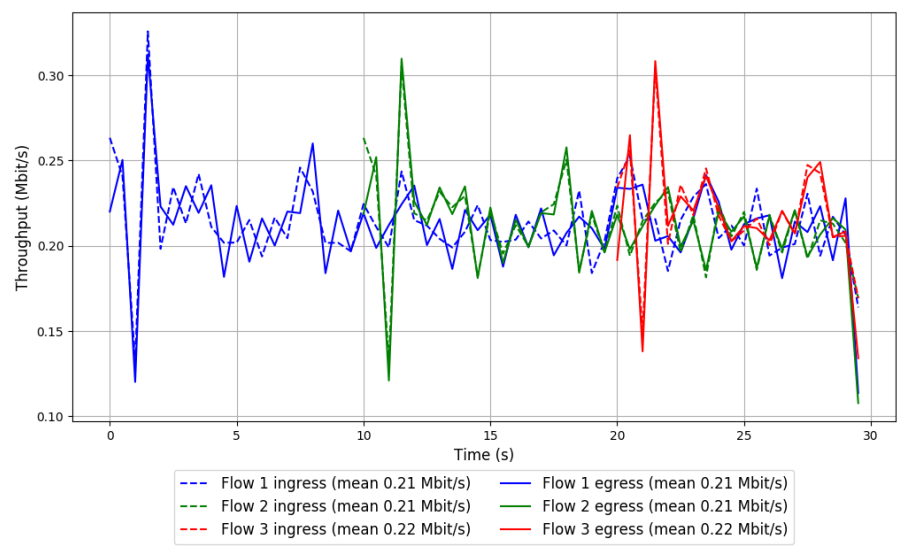


Run 3: Statistics of SCReAM

Start at: 2018-01-26 11:21:38
End at: 2018-01-26 11:22:08
Local clock offset: -0.177 ms
Remote clock offset: -7.937 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.436 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 85.049 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.454 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.317 ms
Loss rate: 1.53%

Run 3: Report of SReAM — Data Link

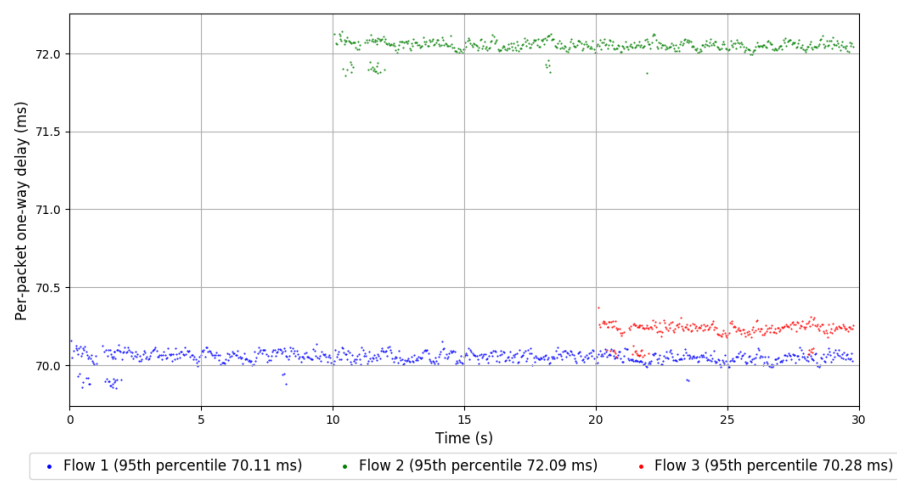
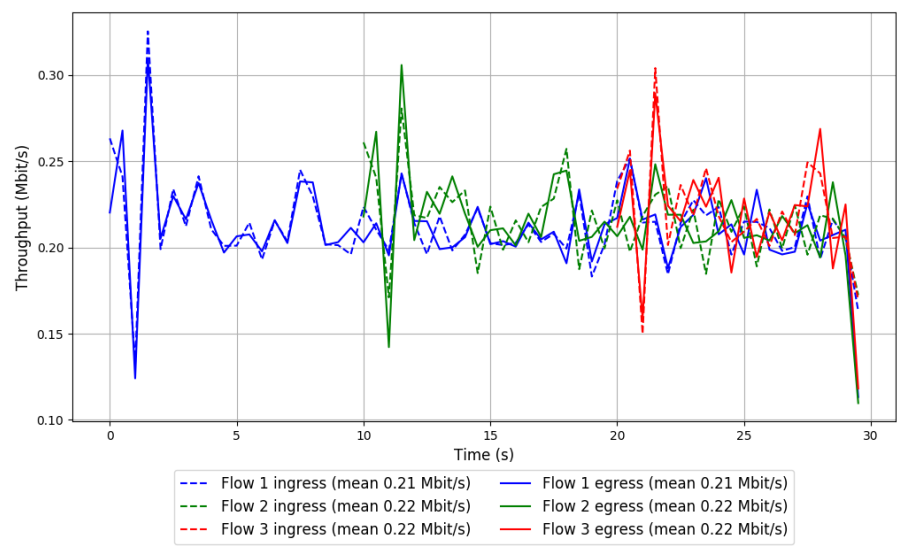


Run 4: Statistics of SReAM

Start at: 2018-01-26 11:43:01
End at: 2018-01-26 11:43:31
Local clock offset: -0.304 ms
Remote clock offset: 7.036 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 72.083 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 70.105 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.093 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.282 ms
Loss rate: 1.53%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-26 12:04:06

End at: 2018-01-26 12:04:36

Local clock offset: -0.446 ms

Remote clock offset: 7.886 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 72.718 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 72.729 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 70.677 ms

Loss rate: 1.06%

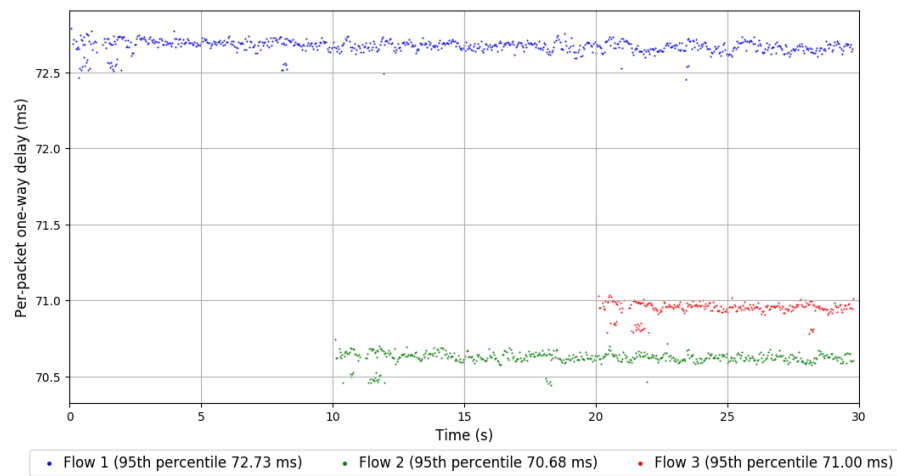
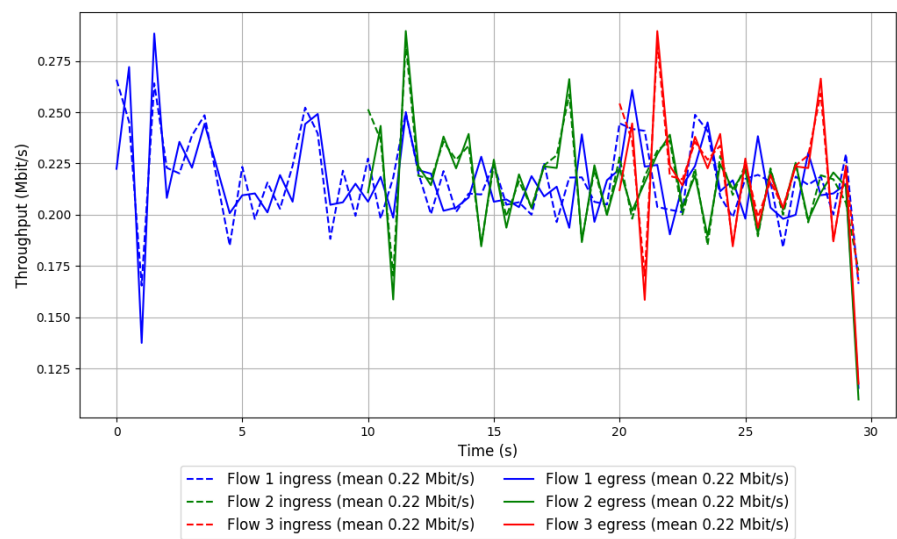
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 70.999 ms

Loss rate: 1.87%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-26 12:25:26

End at: 2018-01-26 12:25:56

Local clock offset: -0.271 ms

Remote clock offset: 7.81 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 71.039 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 71.050 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.208 ms

Loss rate: 1.05%

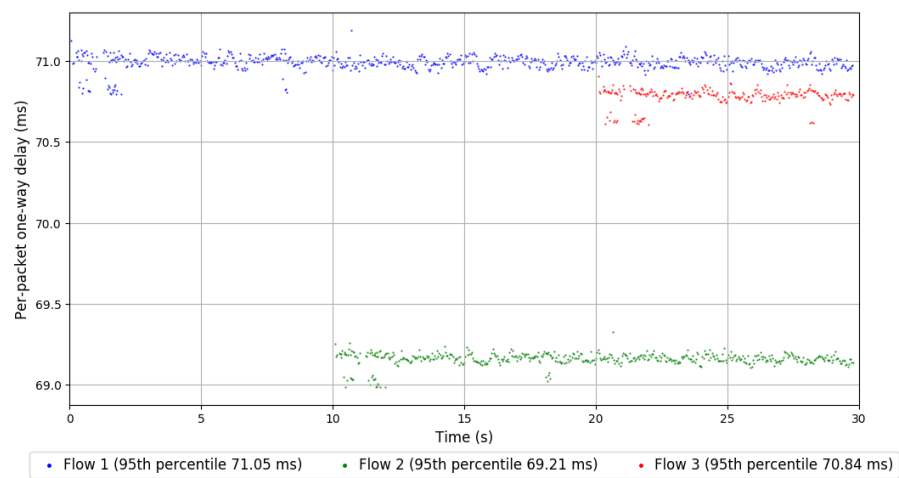
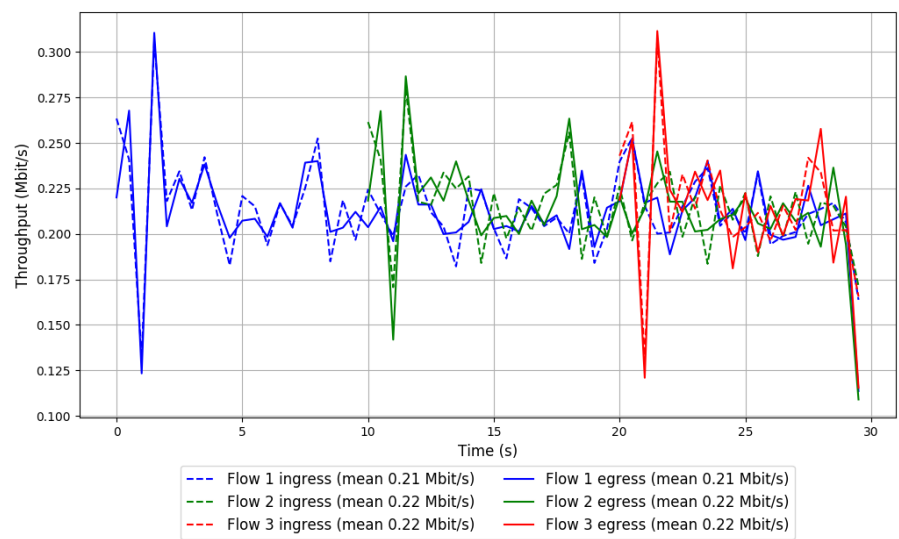
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 70.838 ms

Loss rate: 1.52%

Run 6: Report of SReAM — Data Link

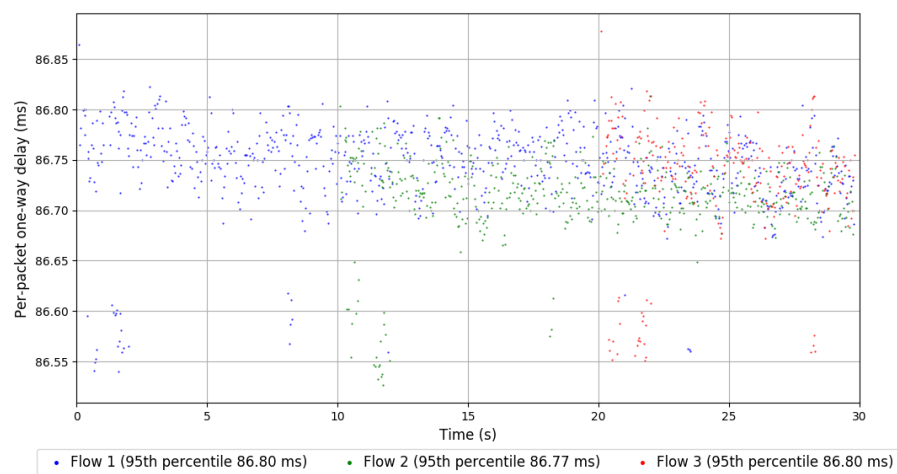
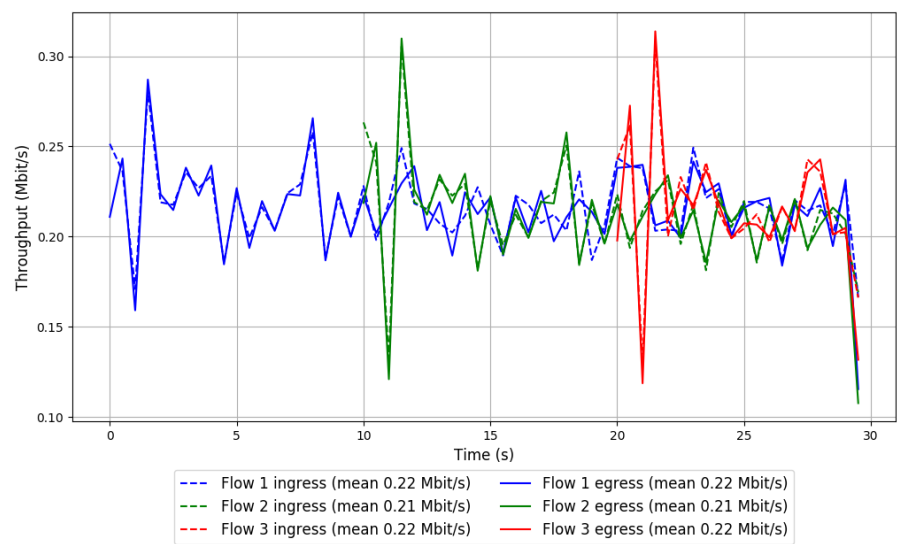


Run 7: Statistics of SReAM

Start at: 2018-01-26 12:46:47
End at: 2018-01-26 12:47:17
Local clock offset: -0.214 ms
Remote clock offset: -7.647 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.793 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.797 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.766 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.800 ms
Loss rate: 1.52%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-26 13:08:23

End at: 2018-01-26 13:08:53

Local clock offset: -0.272 ms

Remote clock offset: 2.508 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 78.117 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 76.496 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 76.875 ms

Loss rate: 1.05%

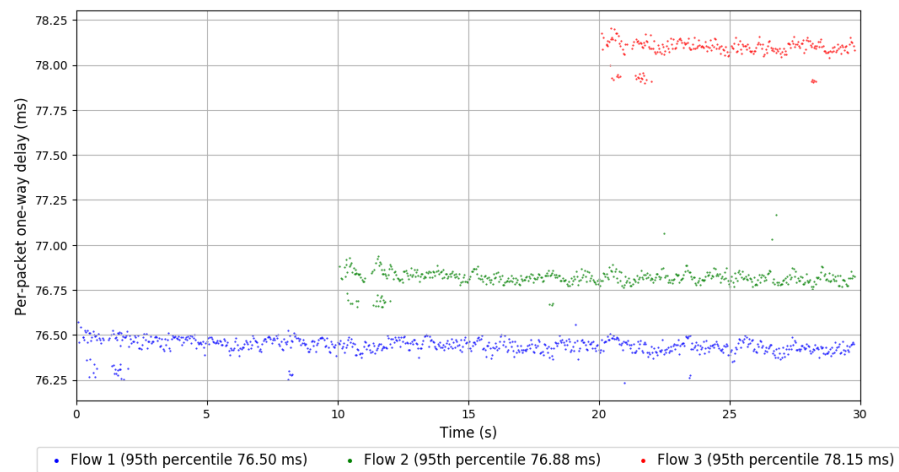
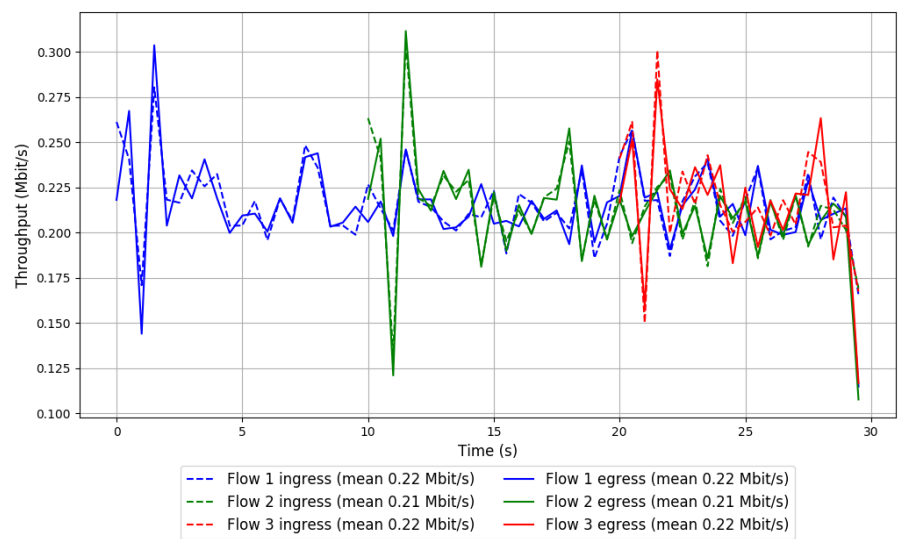
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.152 ms

Loss rate: 1.52%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-26 13:29:50

End at: 2018-01-26 13:30:20

Local clock offset: -0.23 ms

Remote clock offset: 2.361 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 75.891 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 75.431 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 75.741 ms

Loss rate: 1.05%

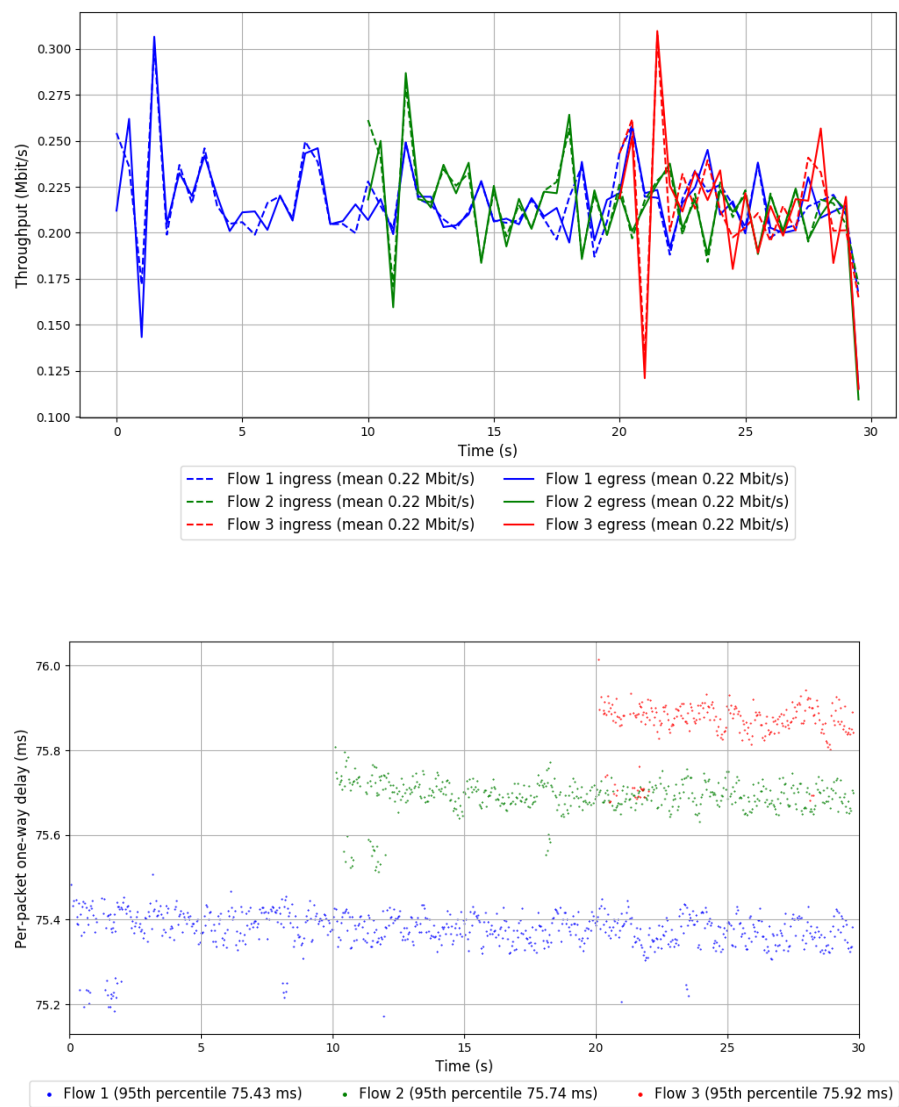
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 75.920 ms

Loss rate: 1.52%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-26 13:51:20

End at: 2018-01-26 13:51:50

Local clock offset: -0.216 ms

Remote clock offset: 6.678 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 71.077 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.345 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.126 ms

Loss rate: 1.05%

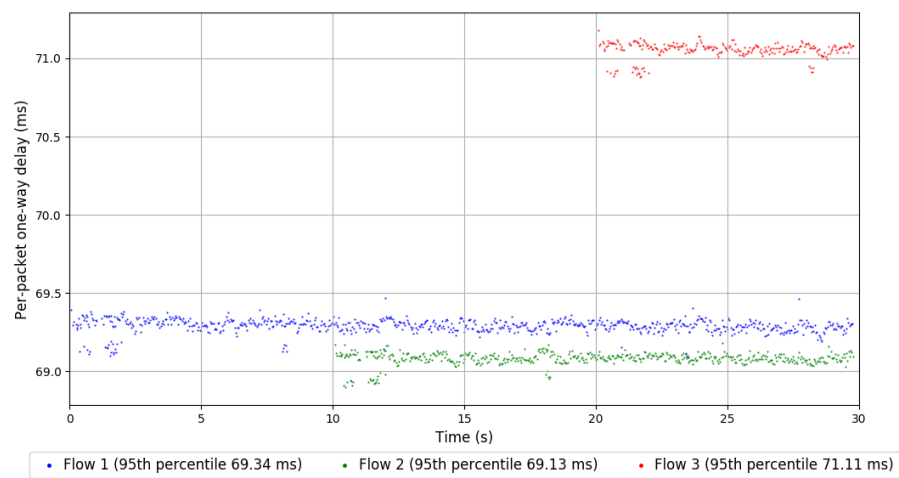
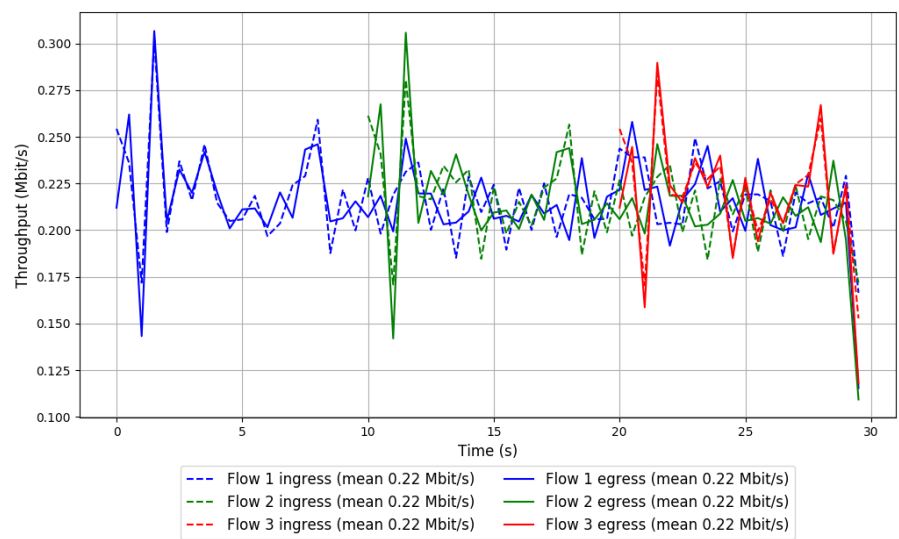
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.109 ms

Loss rate: 1.53%

Run 10: Report of SCReAM — Data Link

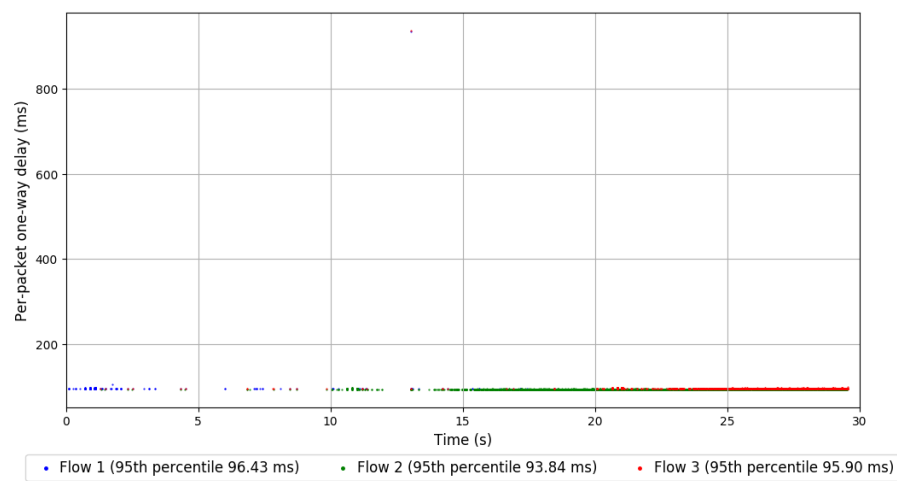
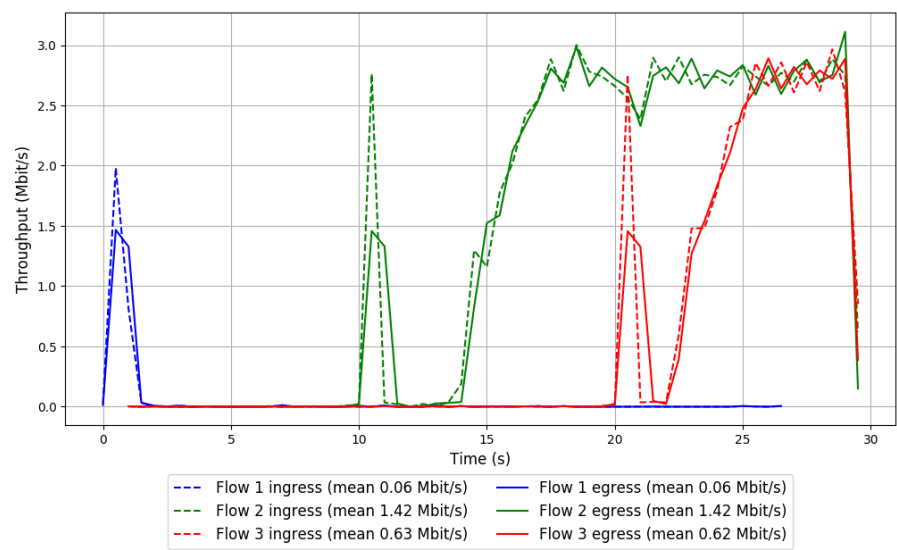


Run 1: Statistics of WebRTC media

Start at: 2018-01-26 10:52:24
End at: 2018-01-26 10:52:54
Local clock offset: -0.129 ms
Remote clock offset: -17.257 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 95.718 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 96.431 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 93.839 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 95.901 ms
Loss rate: 2.49%

Run 1: Report of WebRTC media — Data Link

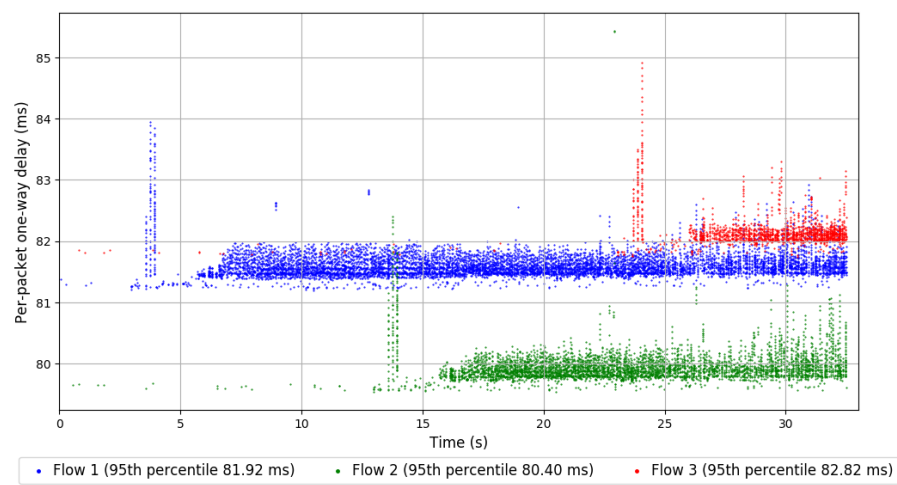
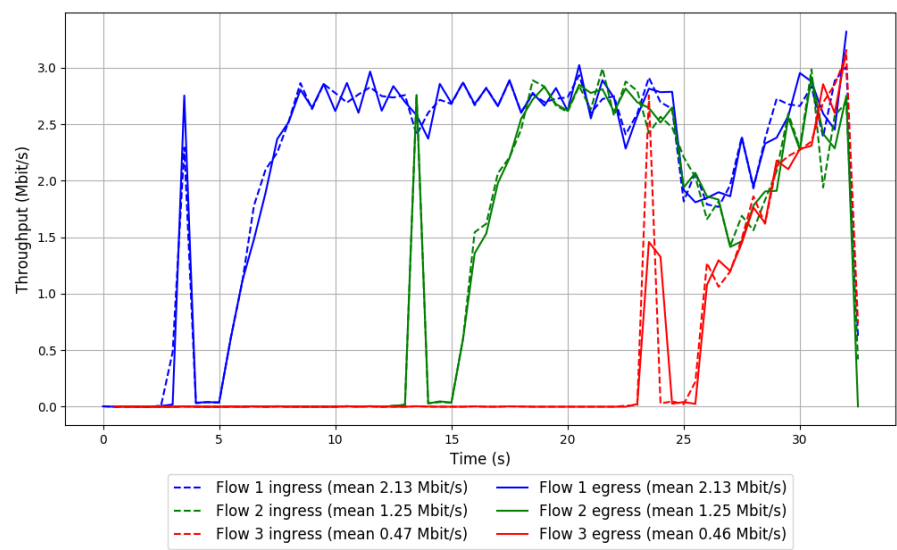


Run 2: Statistics of WebRTC media

Start at: 2018-01-26 11:13:34
End at: 2018-01-26 11:14:04
Local clock offset: -0.148 ms
Remote clock offset: -3.339 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 82.164 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 81.918 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 80.396 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 82.820 ms
Loss rate: 3.87%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 11:34:53

End at: 2018-01-26 11:35:23

Local clock offset: -0.234 ms

Remote clock offset: 2.105 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 79.022 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 79.017 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 79.155 ms

Loss rate: 0.44%

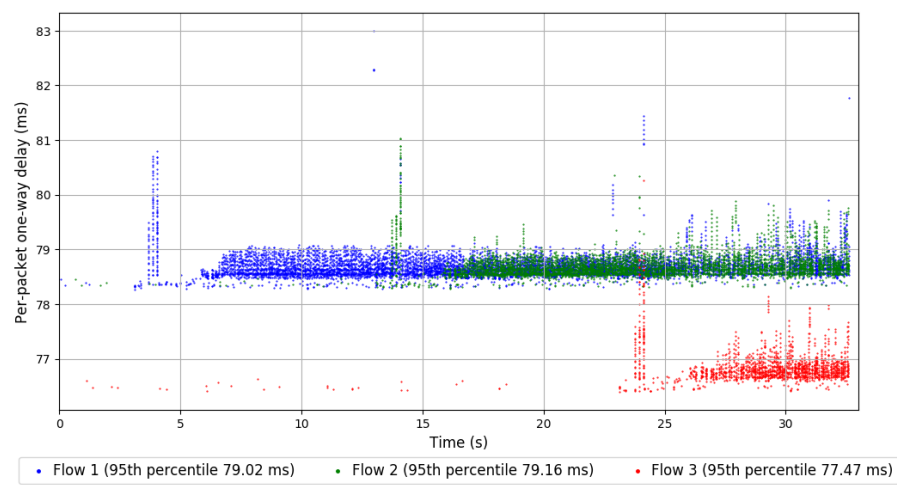
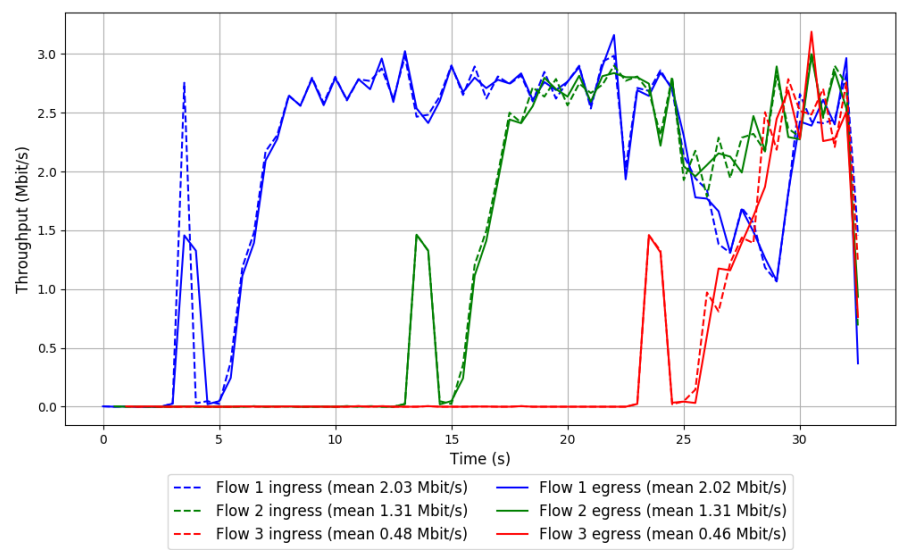
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 77.468 ms

Loss rate: 3.60%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 11:56:07

End at: 2018-01-26 11:56:37

Local clock offset: -0.335 ms

Remote clock offset: 2.247 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 78.791 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 77.552 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 78.707 ms

Loss rate: 1.27%

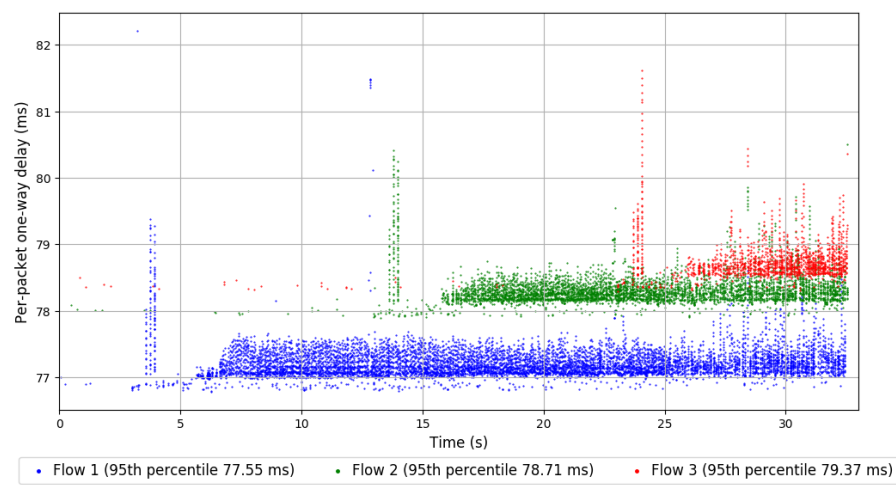
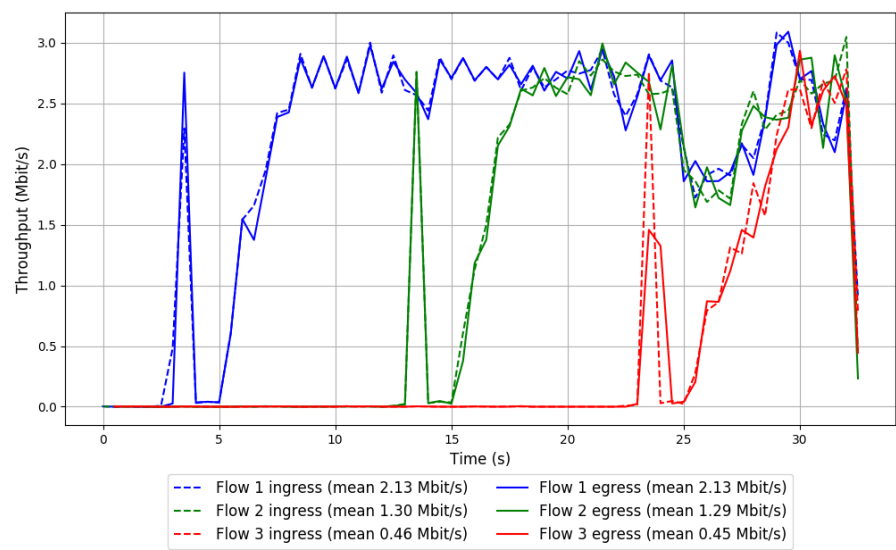
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 79.367 ms

Loss rate: 2.68%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 12:17:21

End at: 2018-01-26 12:17:51

Local clock offset: -0.291 ms

Remote clock offset: 2.774 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 77.890 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 74.534 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 76.864 ms

Loss rate: 1.04%

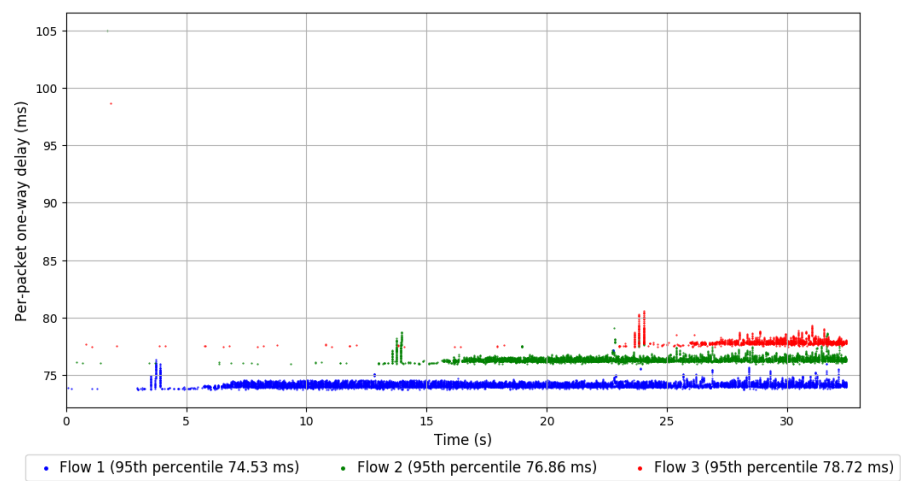
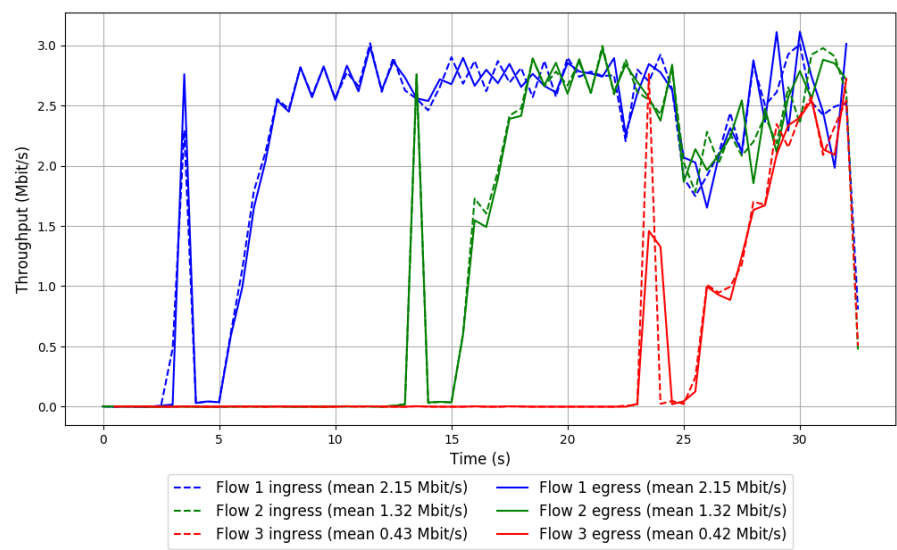
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 78.721 ms

Loss rate: 3.26%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 12:38:40

End at: 2018-01-26 12:39:10

Local clock offset: -0.225 ms

Remote clock offset: 7.778 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 72.980 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 71.534 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 72.843 ms

Loss rate: 1.41%

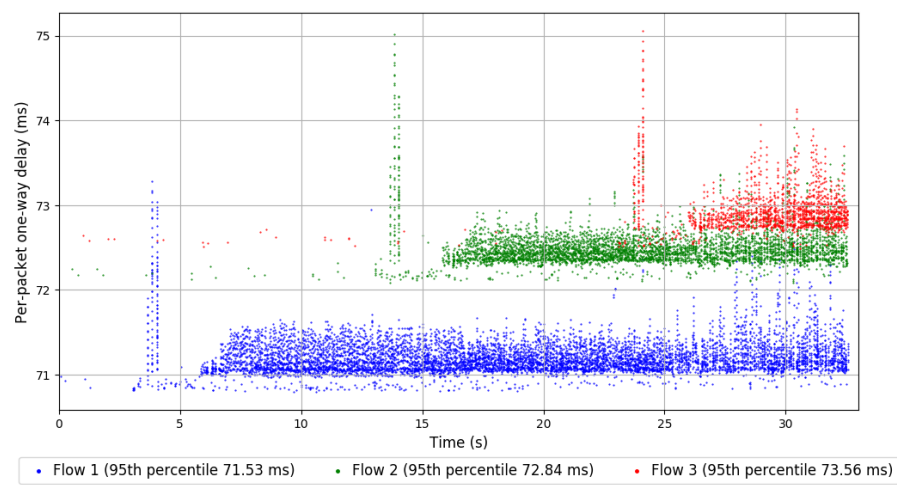
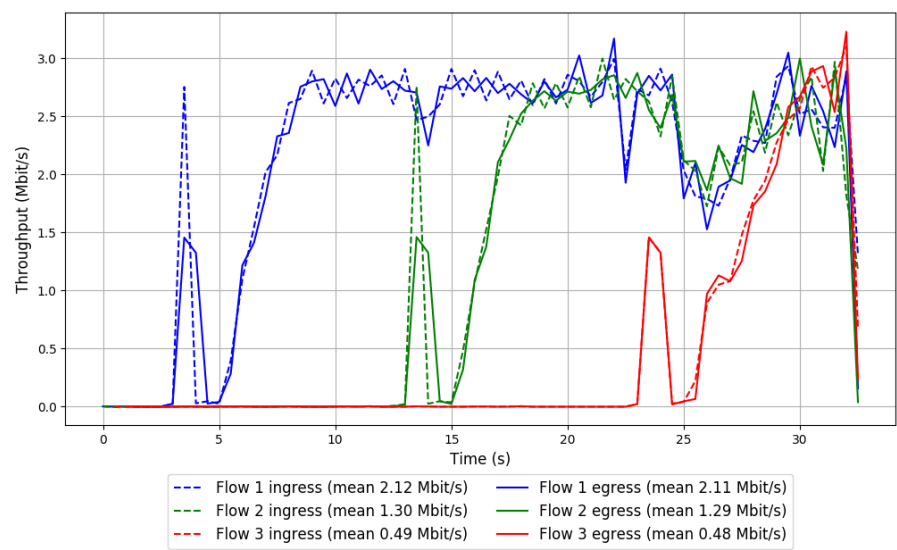
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 73.558 ms

Loss rate: 2.64%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 13:00:15

End at: 2018-01-26 13:00:45

Local clock offset: -0.211 ms

Remote clock offset: -1.64 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 82.871 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 82.960 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 81.188 ms

Loss rate: 0.67%

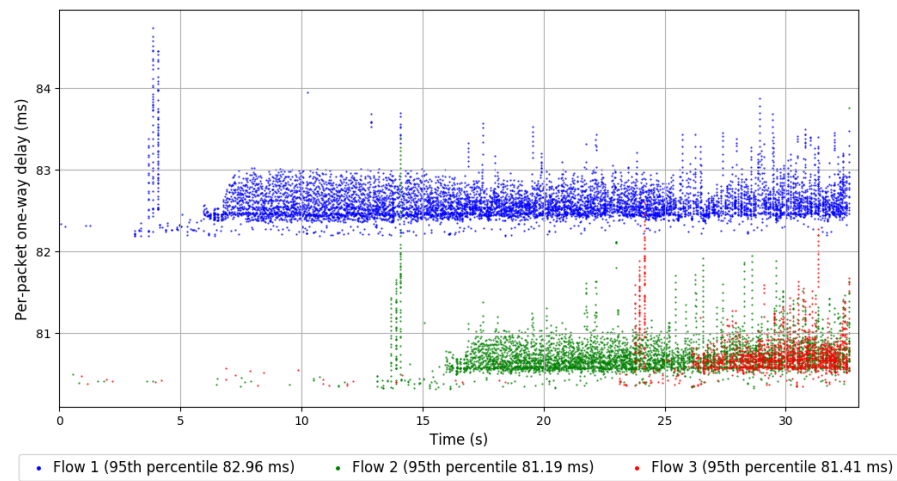
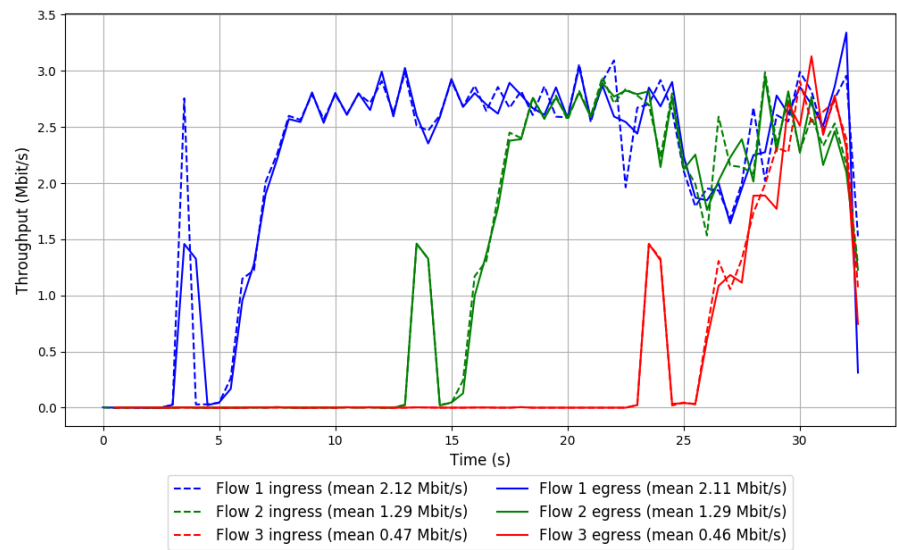
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 81.413 ms

Loss rate: 2.73%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 13:21:36

End at: 2018-01-26 13:22:06

Local clock offset: -0.32 ms

Remote clock offset: 2.602 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 77.586 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 76.586 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 74.741 ms

Loss rate: 1.56%

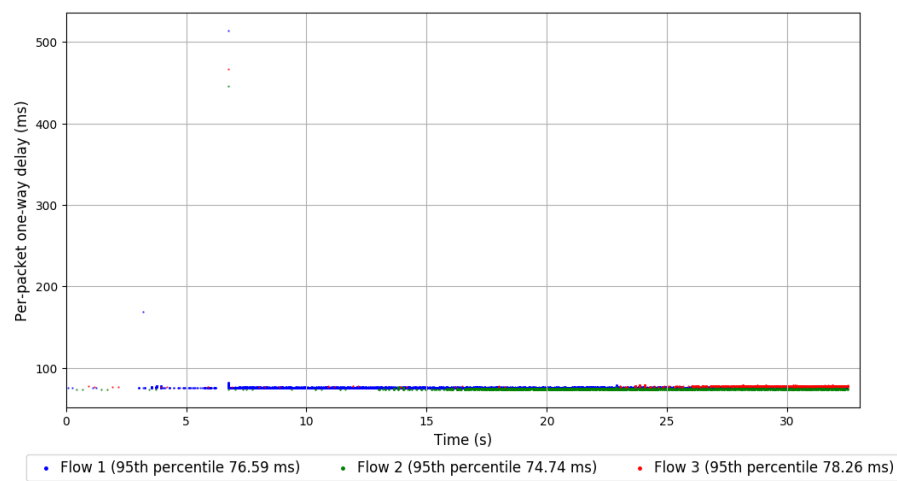
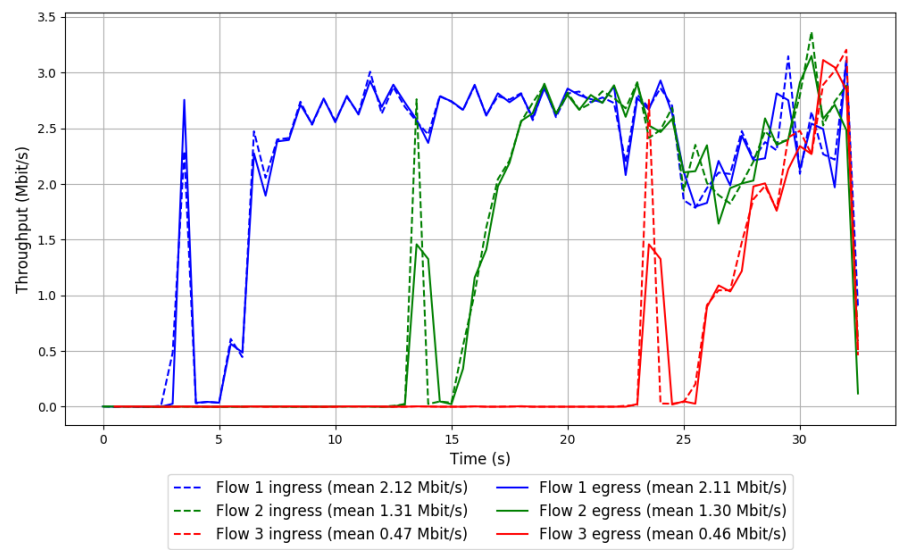
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 78.258 ms

Loss rate: 2.56%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 13:43:04

End at: 2018-01-26 13:43:34

Local clock offset: -0.245 ms

Remote clock offset: 1.042 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 77.544 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 77.555 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 77.397 ms

Loss rate: 0.65%

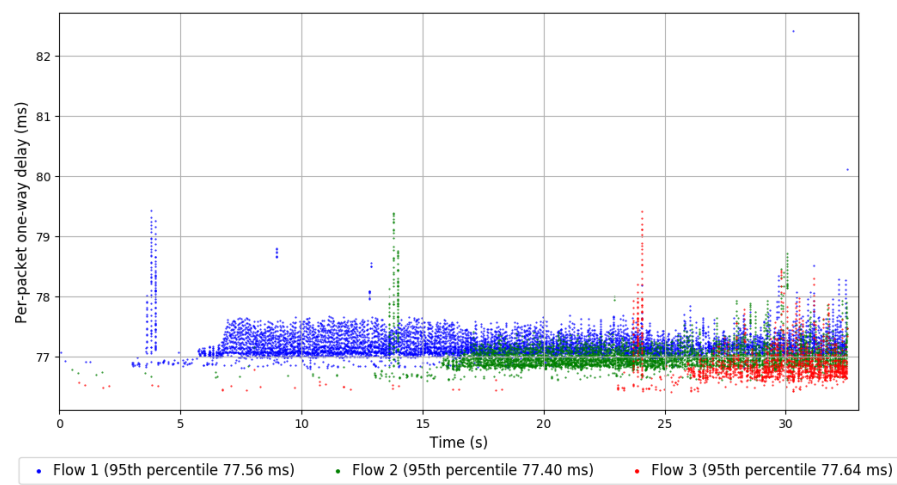
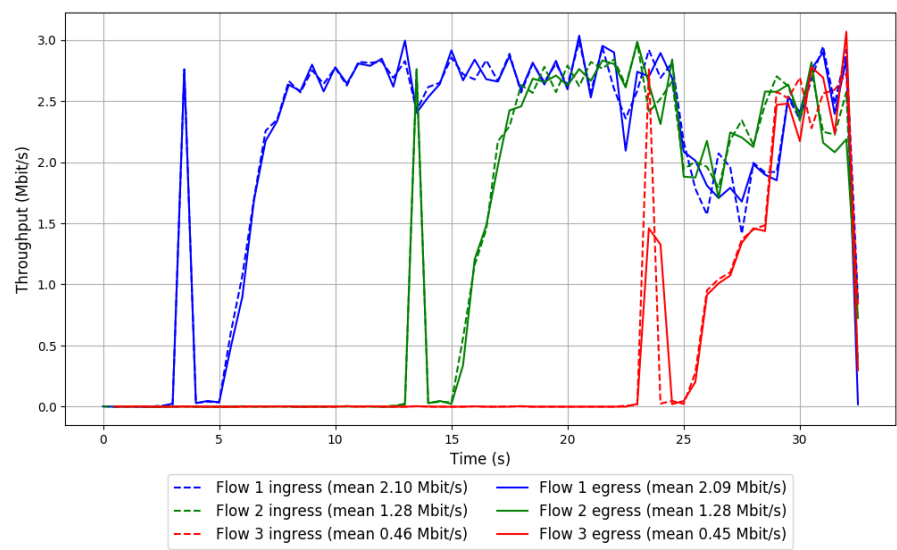
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 77.638 ms

Loss rate: 2.84%

Run 9: Report of WebRTC media — Data Link

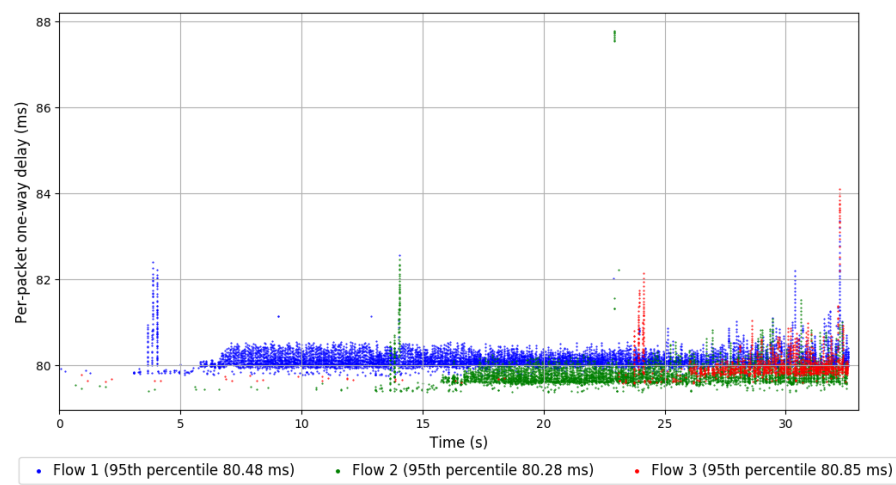
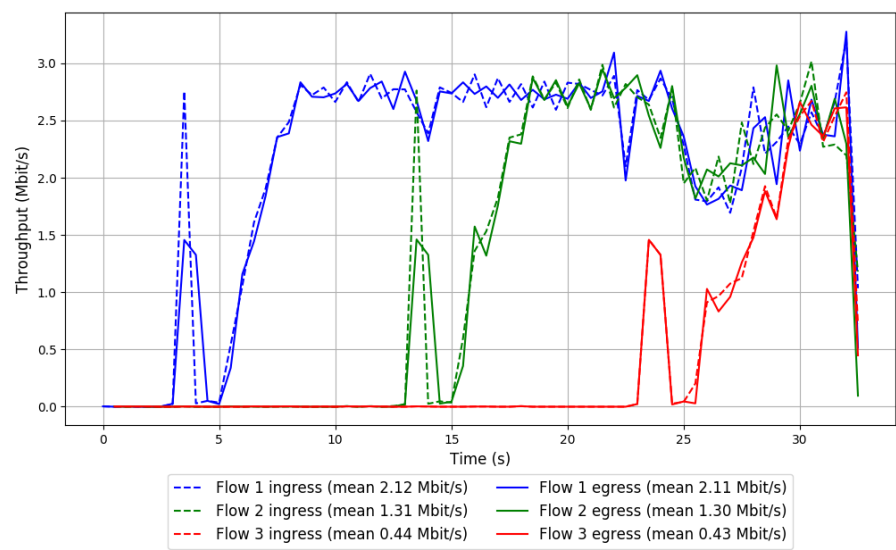


Run 10: Statistics of WebRTC media

Start at: 2018-01-26 14:04:35
End at: 2018-01-26 14:05:05
Local clock offset: -0.102 ms
Remote clock offset: -4.191 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 80.487 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 80.480 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 80.279 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.850 ms
Loss rate: 2.56%

Run 10: Report of WebRTC media — Data Link

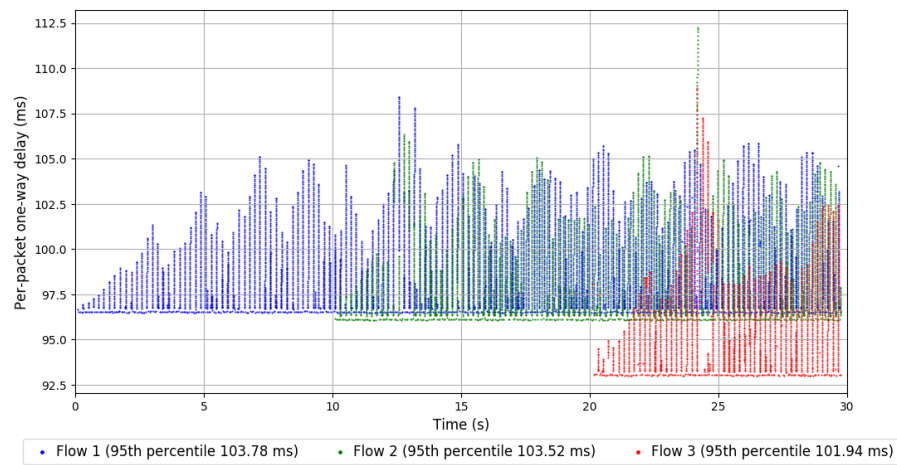
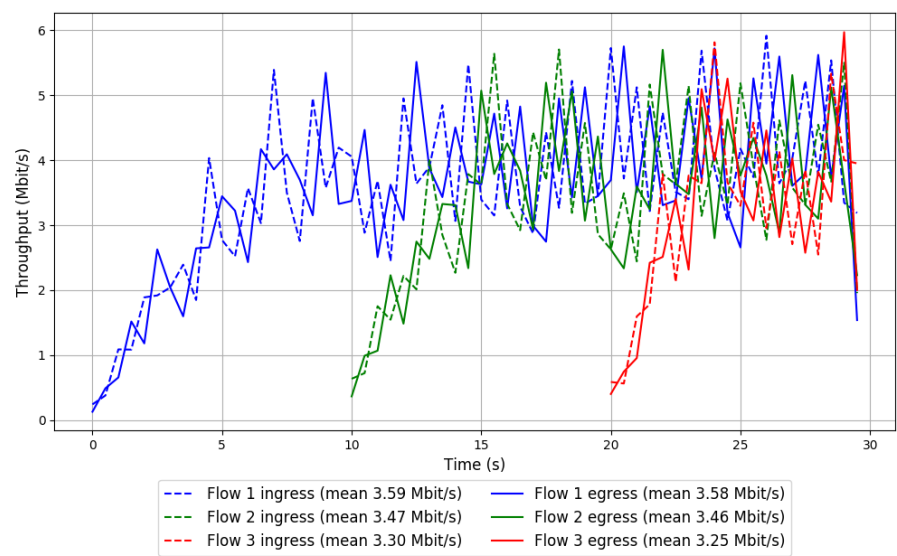


Run 1: Statistics of Sprout

Start at: 2018-01-26 10:43:10
End at: 2018-01-26 10:43:40
Local clock offset: -0.227 ms
Remote clock offset: -17.369 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 103.598 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 103.778 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 103.516 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 101.944 ms
Loss rate: 3.02%

Run 1: Report of Sprout — Data Link

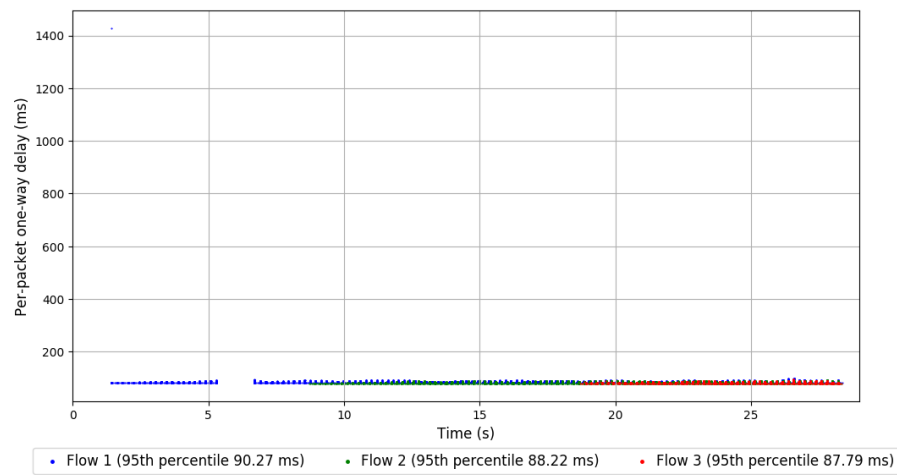
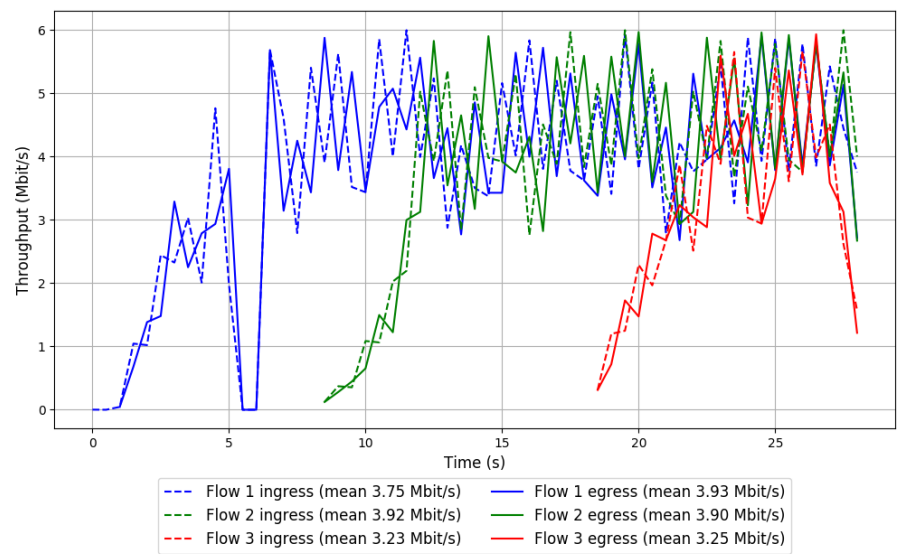


Run 2: Statistics of Sprout

Start at: 2018-01-26 11:04:22
End at: 2018-01-26 11:04:52
Local clock offset: -0.147 ms
Remote clock offset: -3.593 ms

```
# Below is generated by plot.py at 2018-01-26 17:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 89.486 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 90.269 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 88.225 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 87.792 ms
Loss rate: 1.23%
```


Run 2: Report of Sprout — Data Link

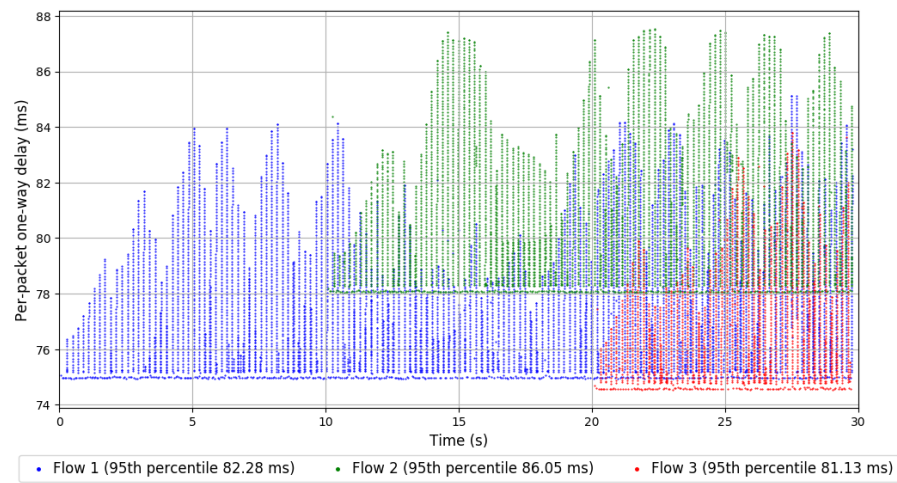
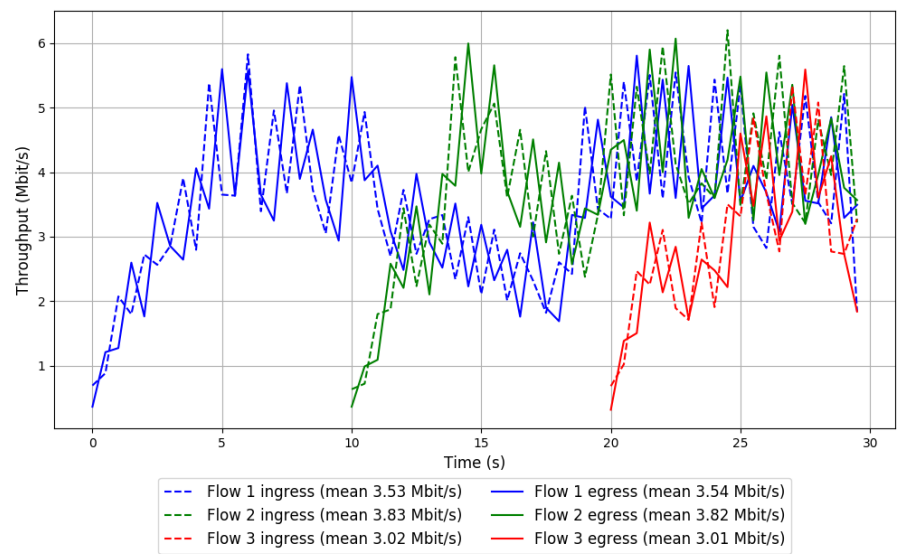


Run 3: Statistics of Sprout

Start at: 2018-01-26 11:25:38
End at: 2018-01-26 11:26:08
Local clock offset: -0.265 ms
Remote clock offset: 1.911 ms

```
# Below is generated by plot.py at 2018-01-26 17:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 84.465 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 82.279 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 86.046 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 81.128 ms
Loss rate: 2.43%
```

Run 3: Report of Sprout — Data Link

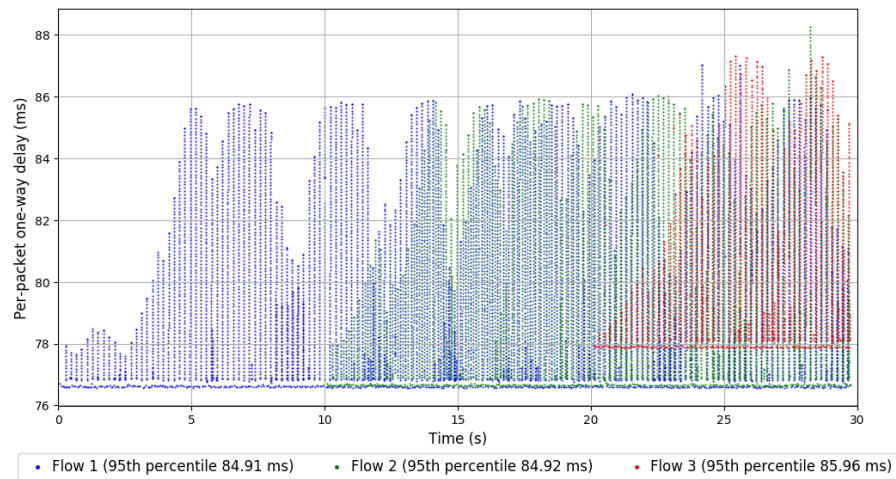
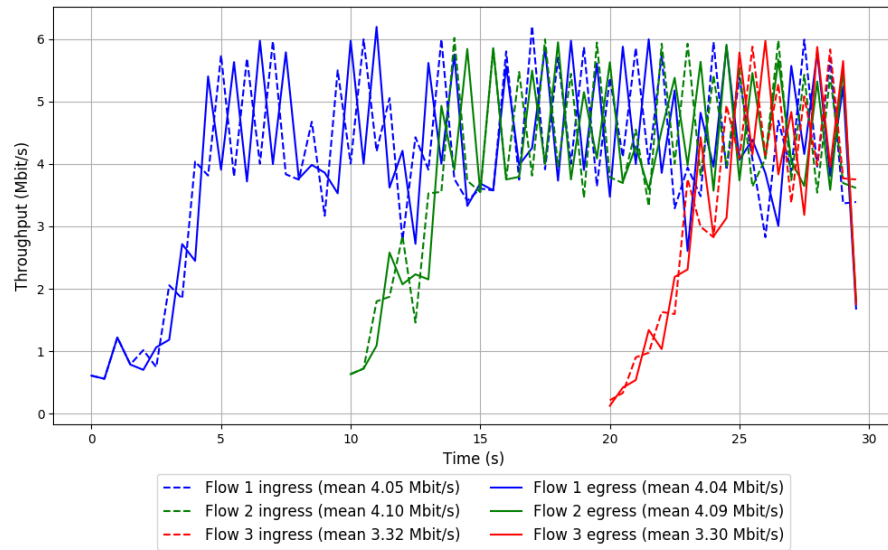


Run 4: Statistics of Sprout

Start at: 2018-01-26 11:46:59
End at: 2018-01-26 11:47:29
Local clock offset: -0.308 ms
Remote clock offset: 2.34 ms

```
# Below is generated by plot.py at 2018-01-26 17:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 85.048 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 84.905 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 84.925 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 85.964 ms
Loss rate: 3.06%
```

Run 4: Report of Sprout — Data Link

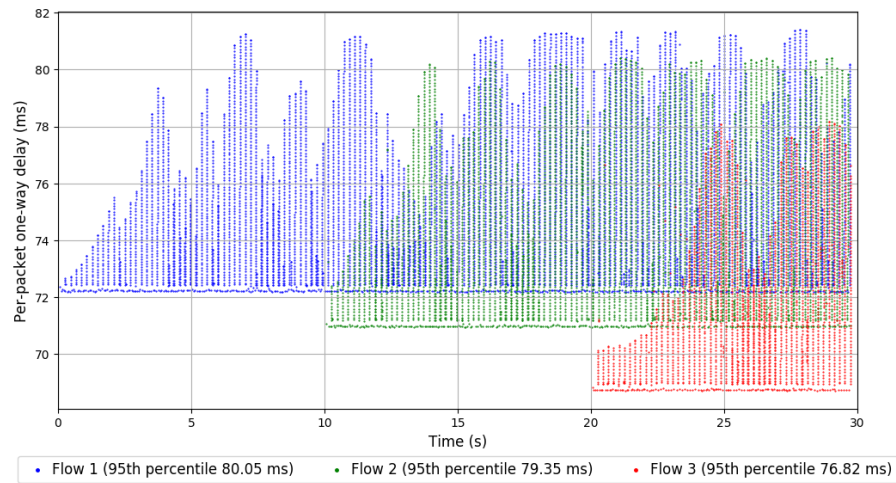
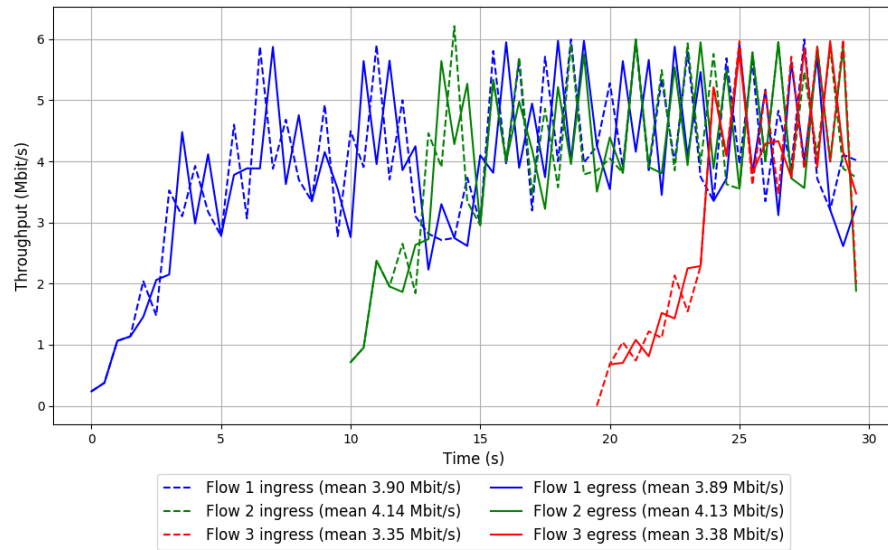


Run 5: Statistics of Sprout

Start at: 2018-01-26 12:08:05
End at: 2018-01-26 12:08:35
Local clock offset: -0.332 ms
Remote clock offset: 7.753 ms

```
# Below is generated by plot.py at 2018-01-26 17:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 79.615 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 80.052 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 79.352 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 76.822 ms
Loss rate: 0.55%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-26 12:29:24

End at: 2018-01-26 12:29:54

Local clock offset: -0.241 ms

Remote clock offset: 8.618 ms

Below is generated by plot.py at 2018-01-26 17:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 78.724 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 78.266 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 79.460 ms

Loss rate: 1.25%

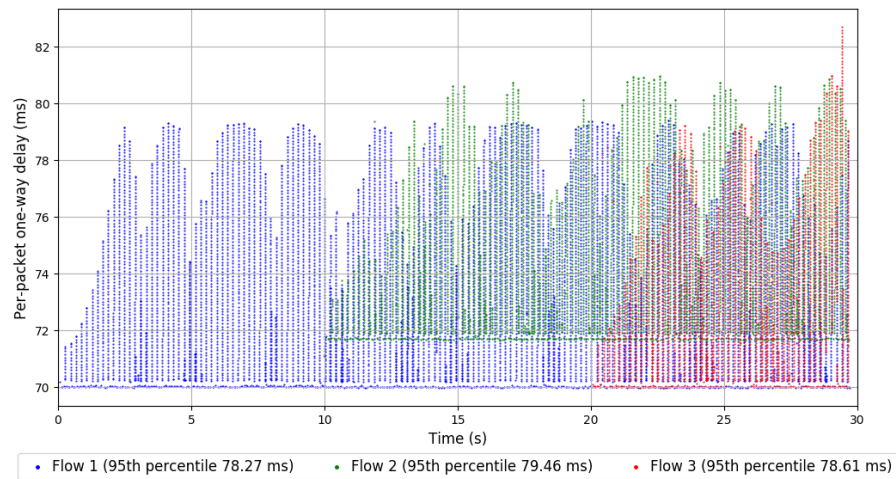
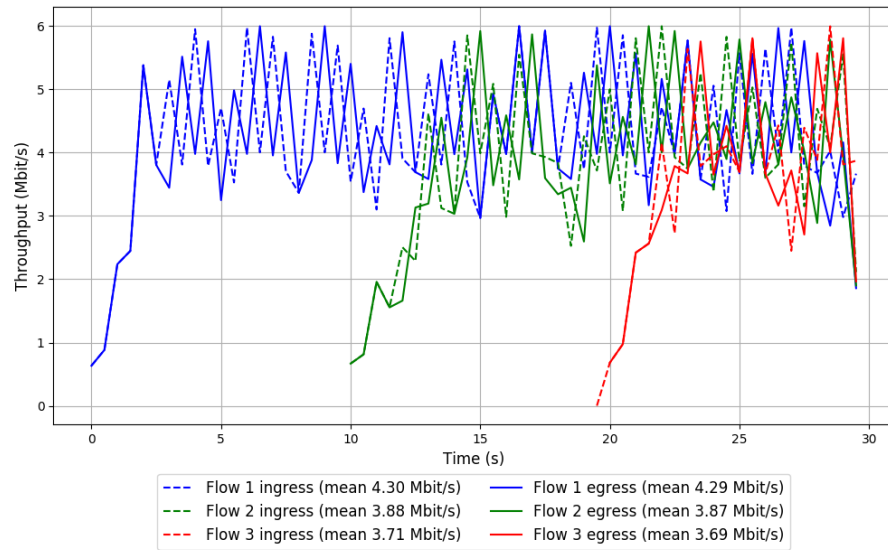
-- Flow 3:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 78.609 ms

Loss rate: 2.61%

Run 6: Report of Sprout — Data Link

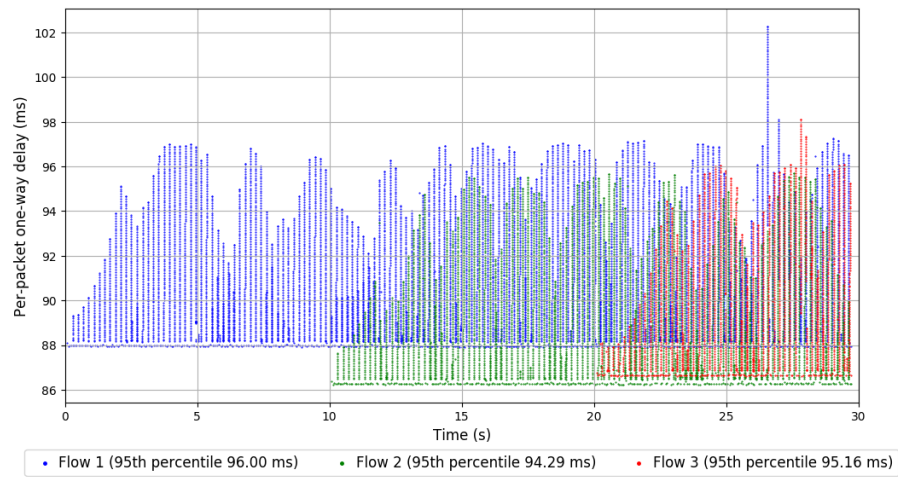
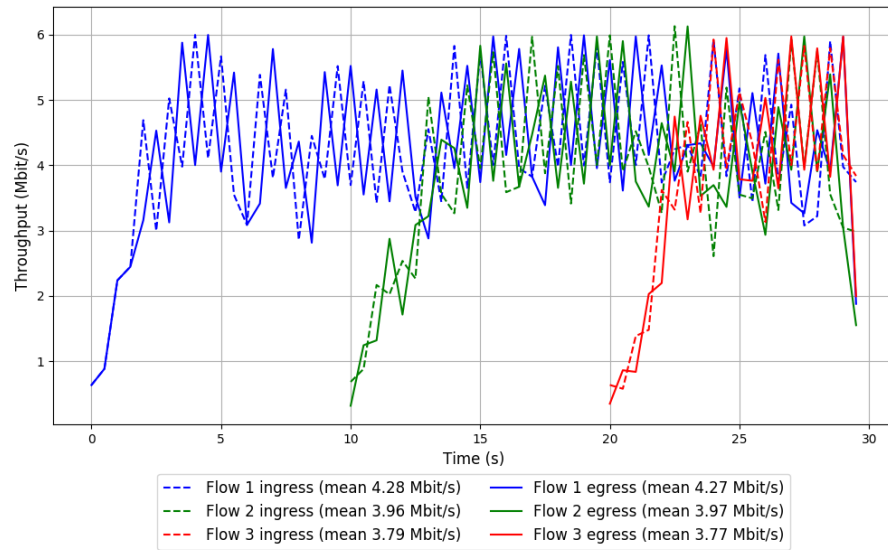


Run 7: Statistics of Sprout

Start at: 2018-01-26 12:50:47
End at: 2018-01-26 12:51:17
Local clock offset: -0.201 ms
Remote clock offset: -7.727 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 95.457 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 95.999 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 94.294 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 95.164 ms
Loss rate: 2.68%

Run 7: Report of Sprout — Data Link

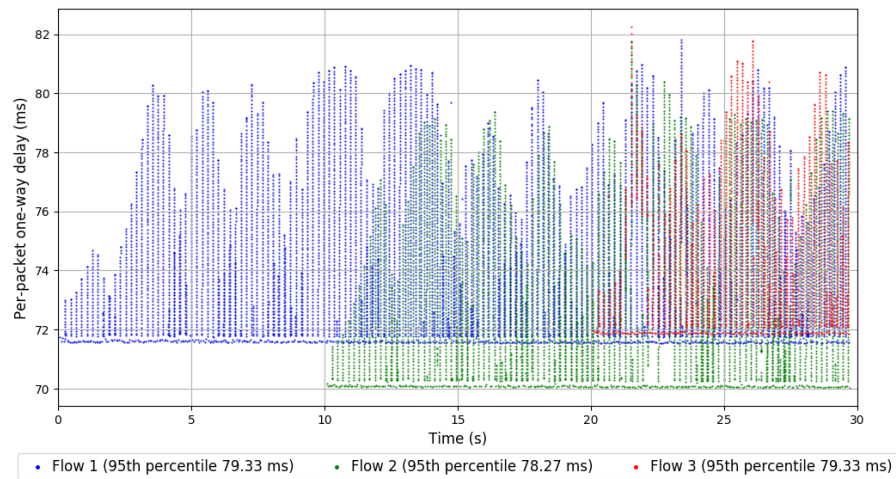
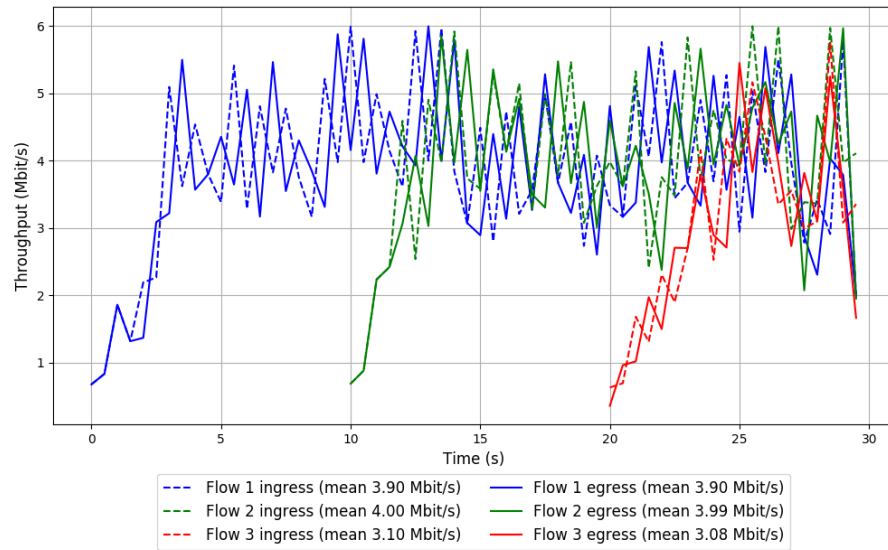


Run 8: Statistics of Sprout

Start at: 2018-01-26 13:12:21
End at: 2018-01-26 13:12:51
Local clock offset: -0.216 ms
Remote clock offset: 7.111 ms

Below is generated by plot.py at 2018-01-26 17:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 78.961 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 79.330 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 78.273 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 79.335 ms
Loss rate: 2.78%

Run 8: Report of Sprout — Data Link

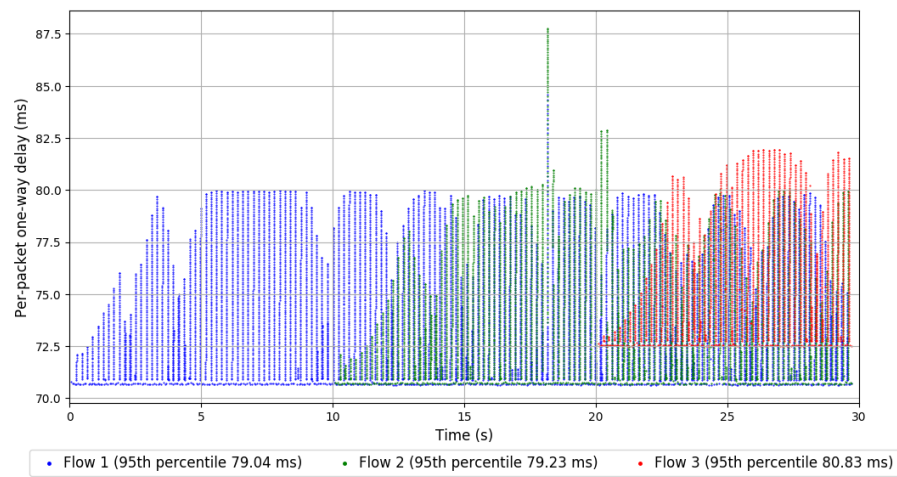
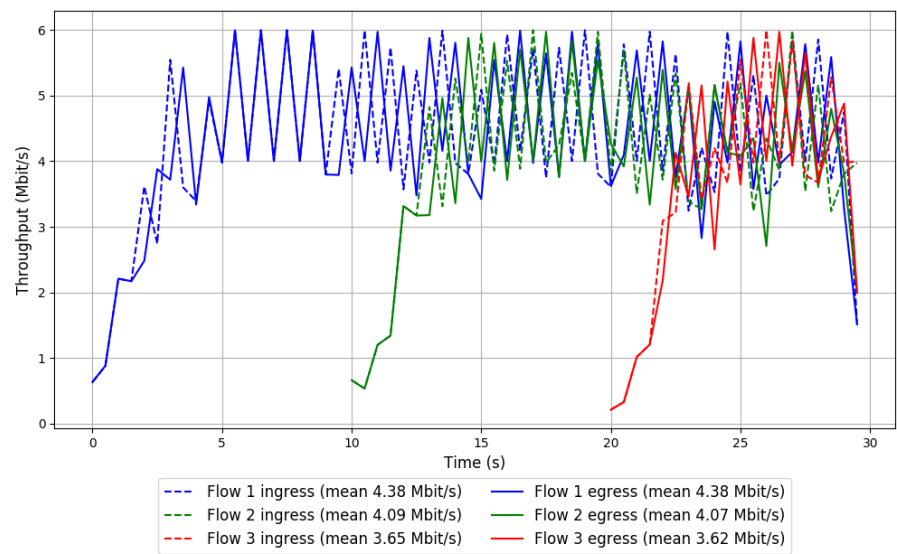


Run 9: Statistics of Sprout

Start at: 2018-01-26 13:33:49
End at: 2018-01-26 13:34:19
Local clock offset: -0.238 ms
Remote clock offset: 7.084 ms

```
# Below is generated by plot.py at 2018-01-26 17:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 79.420 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 79.036 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 79.232 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 80.825 ms
Loss rate: 2.79%
```

Run 9: Report of Sprout — Data Link

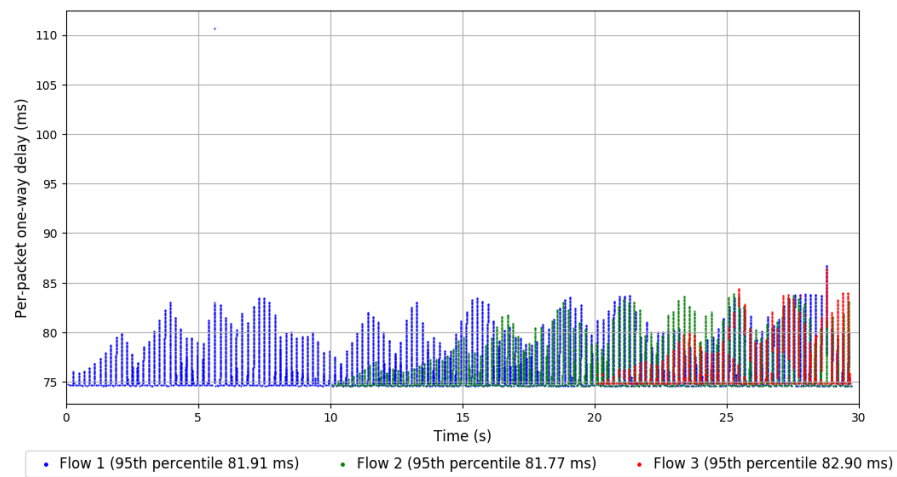
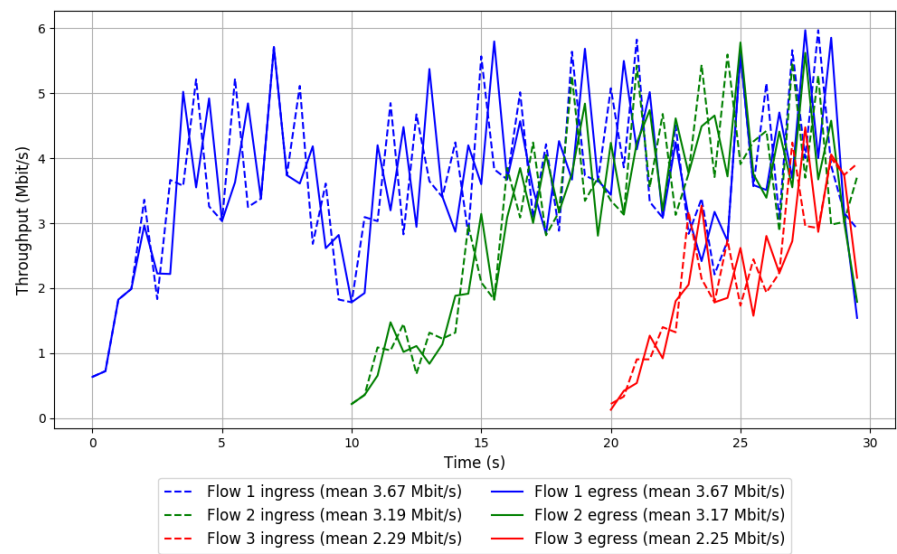


Run 10: Statistics of Sprout

Start at: 2018-01-26 13:55:18
End at: 2018-01-26 13:55:49
Local clock offset: -0.177 ms
Remote clock offset: 0.828 ms

```
# Below is generated by plot.py at 2018-01-26 17:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 81.993 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 81.911 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 81.772 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 82.904 ms
Loss rate: 3.90%
```


Run 10: Report of Sprout — Data Link

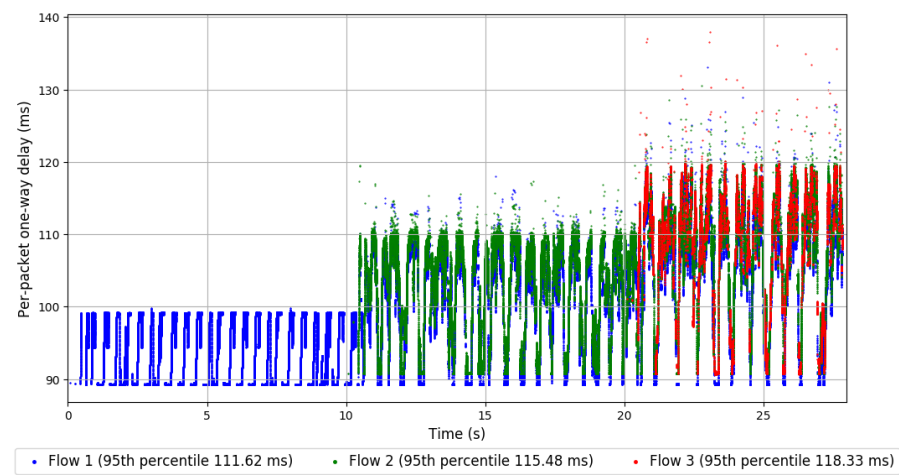
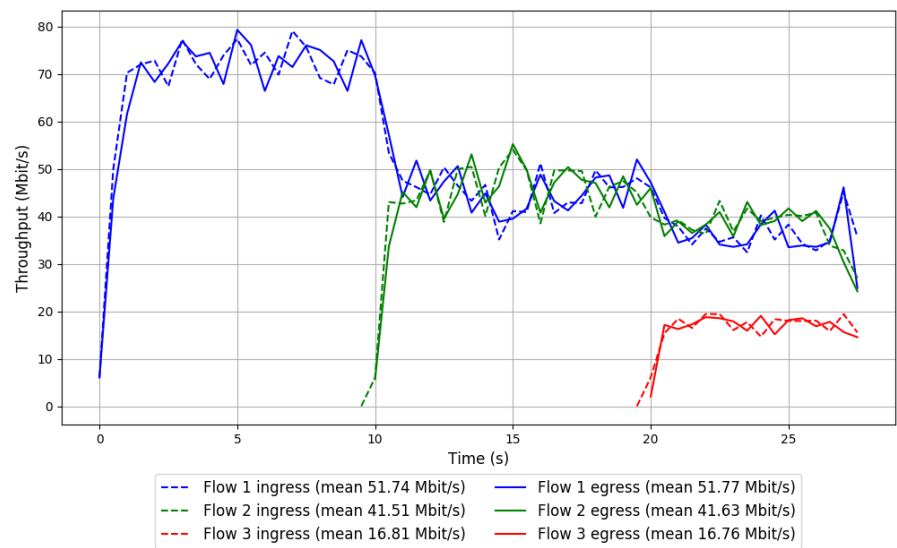


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 10:49:44
End at: 2018-01-26 10:50:14
Local clock offset: -0.156 ms
Remote clock offset: -11.627 ms

Below is generated by plot.py at 2018-01-26 17:49:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.10 Mbit/s
95th percentile per-packet one-way delay: 114.521 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 51.77 Mbit/s
95th percentile per-packet one-way delay: 111.616 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 41.63 Mbit/s
95th percentile per-packet one-way delay: 115.477 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 16.76 Mbit/s
95th percentile per-packet one-way delay: 118.334 ms
Loss rate: 2.75%

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

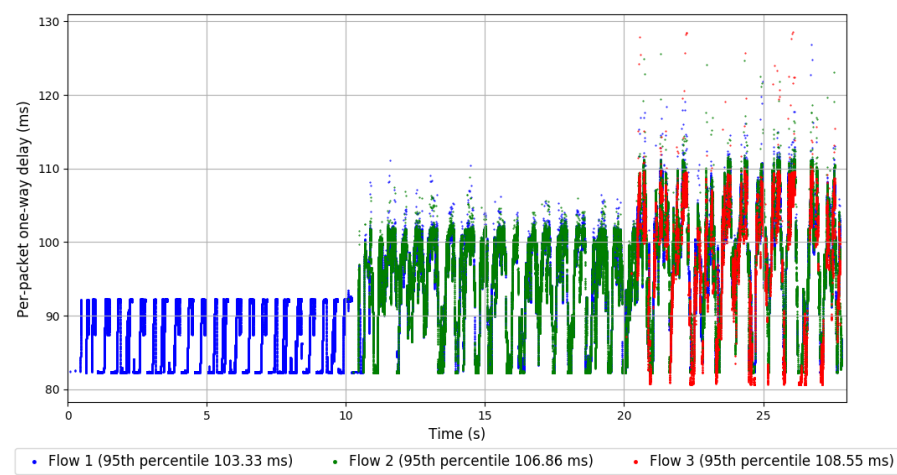
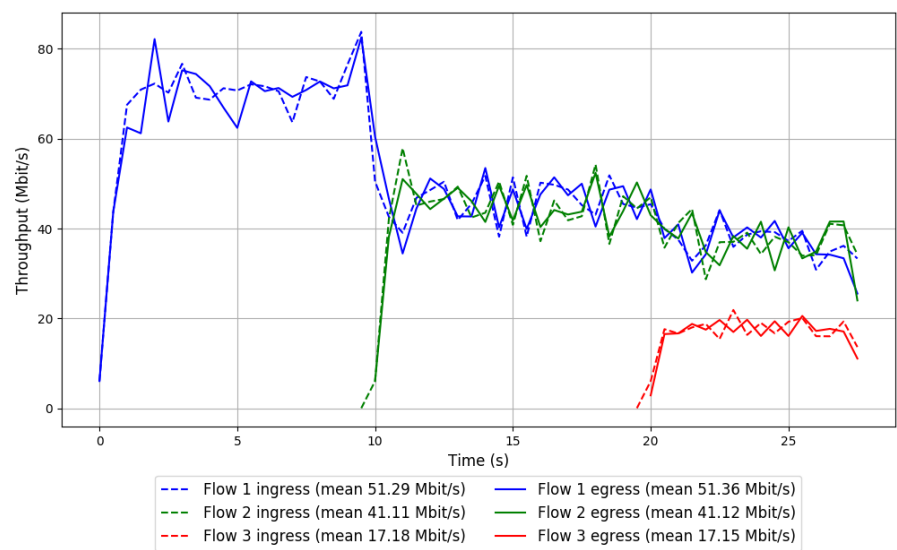


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 11:10:54
End at: 2018-01-26 11:11:24
Local clock offset: -0.15 ms
Remote clock offset: -2.453 ms

Below is generated by plot.py at 2018-01-26 17:49:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.43 Mbit/s
95th percentile per-packet one-way delay: 106.085 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 51.36 Mbit/s
95th percentile per-packet one-way delay: 103.329 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 106.865 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 17.15 Mbit/s
95th percentile per-packet one-way delay: 108.551 ms
Loss rate: 2.57%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 11:32:13

End at: 2018-01-26 11:32:43

Local clock offset: -0.228 ms

Remote clock offset: 2.899 ms

Below is generated by plot.py at 2018-01-26 17:49:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.35 Mbit/s

95th percentile per-packet one-way delay: 102.982 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 101.674 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 104.131 ms

Loss rate: 0.96%

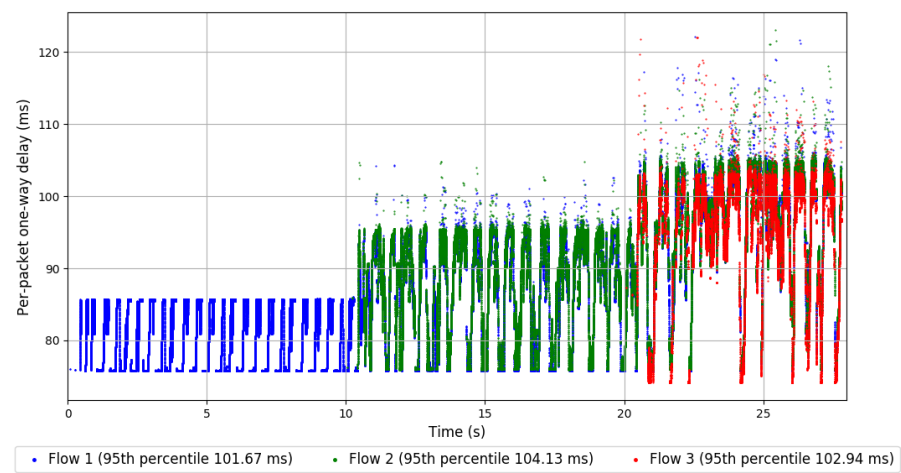
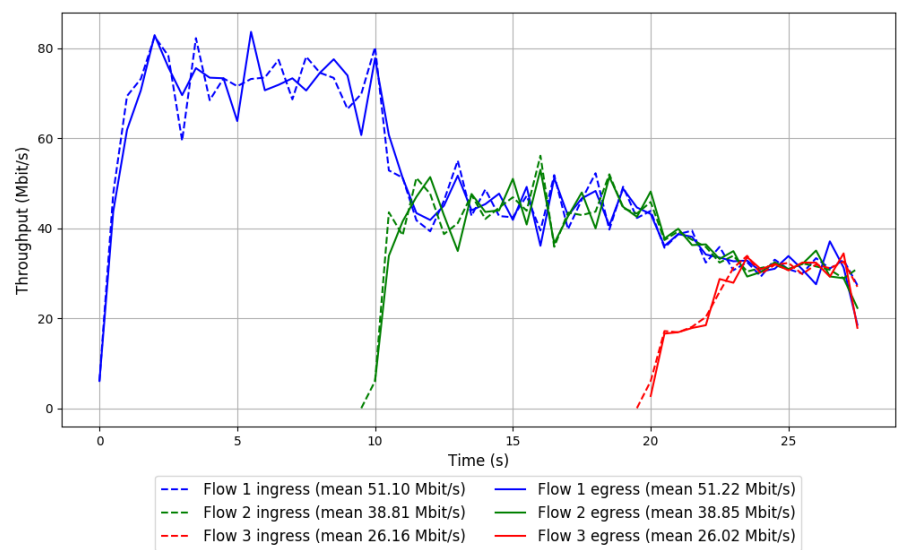
-- Flow 3:

Average throughput: 26.02 Mbit/s

95th percentile per-packet one-way delay: 102.943 ms

Loss rate: 3.21%

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



Run 4: Statistics of TaoVA-100x

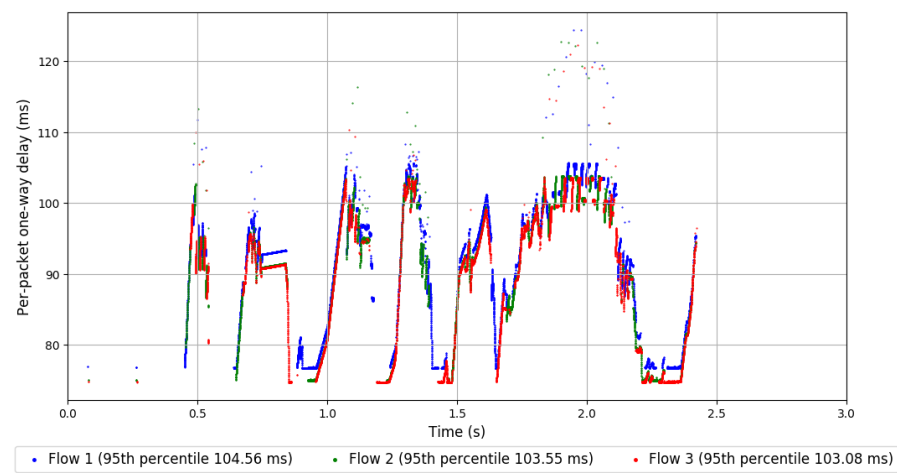
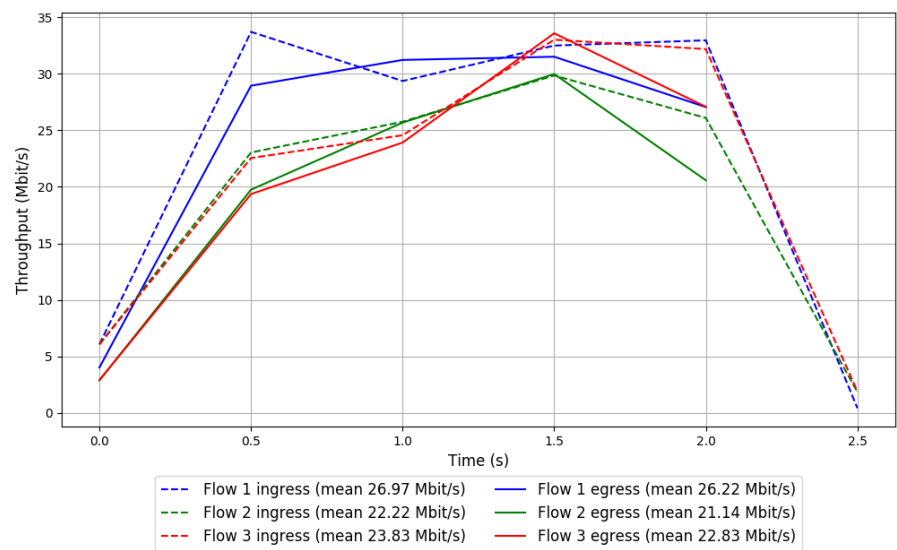
Start at: 2018-01-26 11:53:35

End at: 2018-01-26 11:54:05

Local clock offset: -0.39 ms

Remote clock offset: 2.288 ms

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 12:14:41

End at: 2018-01-26 12:15:11

Local clock offset: -0.314 ms

Remote clock offset: 1.916 ms

Below is generated by plot.py at 2018-01-26 17:49:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 102.612 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 99.055 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 103.590 ms

Loss rate: 1.01%

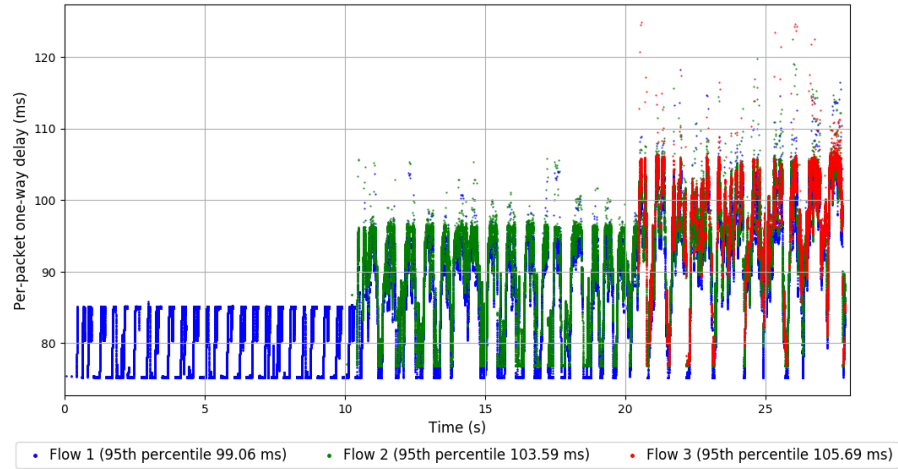
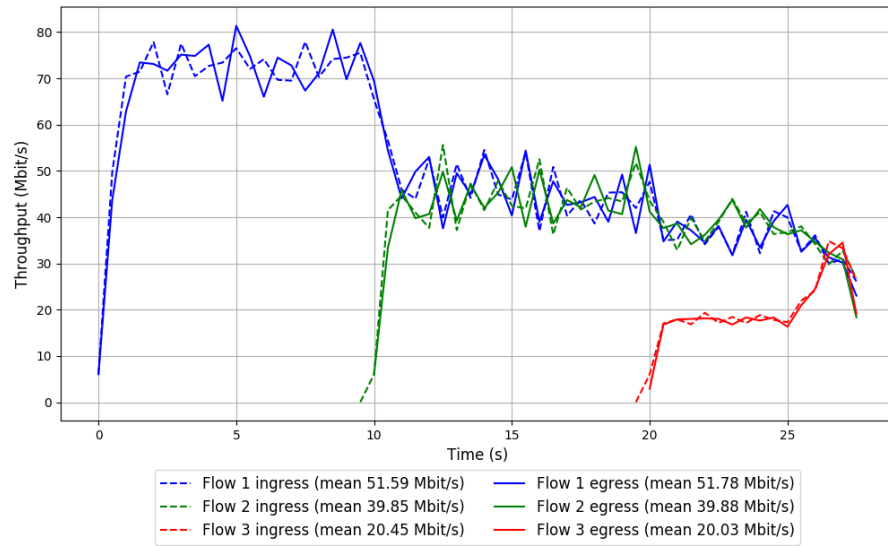
-- Flow 3:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 105.688 ms

Loss rate: 4.34%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 12:36:00

End at: 2018-01-26 12:36:30

Local clock offset: -0.236 ms

Remote clock offset: 1.997 ms

Below is generated by plot.py at 2018-01-26 17:49:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 99.459 ms

Loss rate: 13.96%

-- Flow 1:

Average throughput: 45.79 Mbit/s

95th percentile per-packet one-way delay: 96.647 ms

Loss rate: 12.22%

-- Flow 2:

Average throughput: 34.30 Mbit/s

95th percentile per-packet one-way delay: 99.129 ms

Loss rate: 18.37%

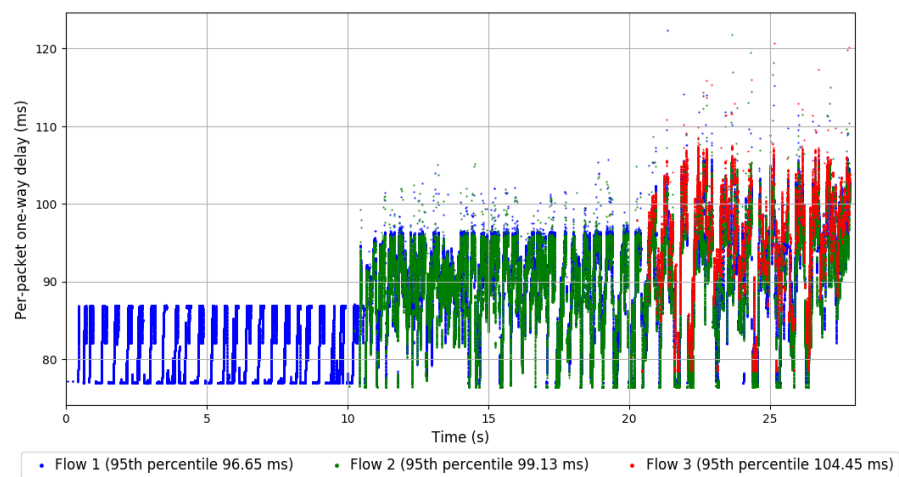
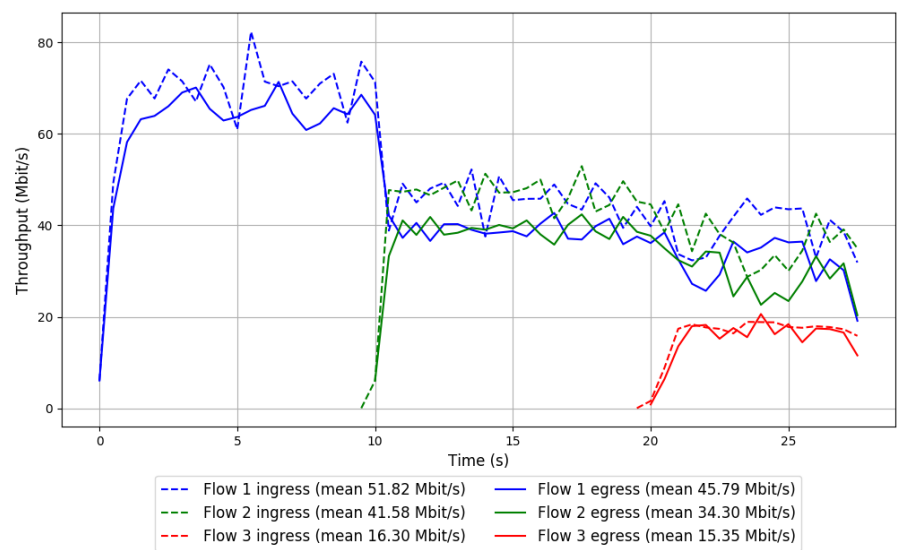
-- Flow 3:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 104.452 ms

Loss rate: 7.98%

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

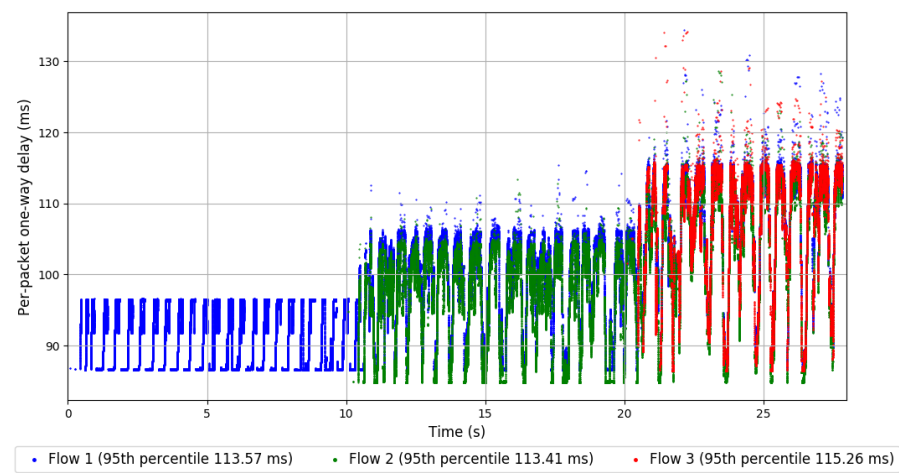
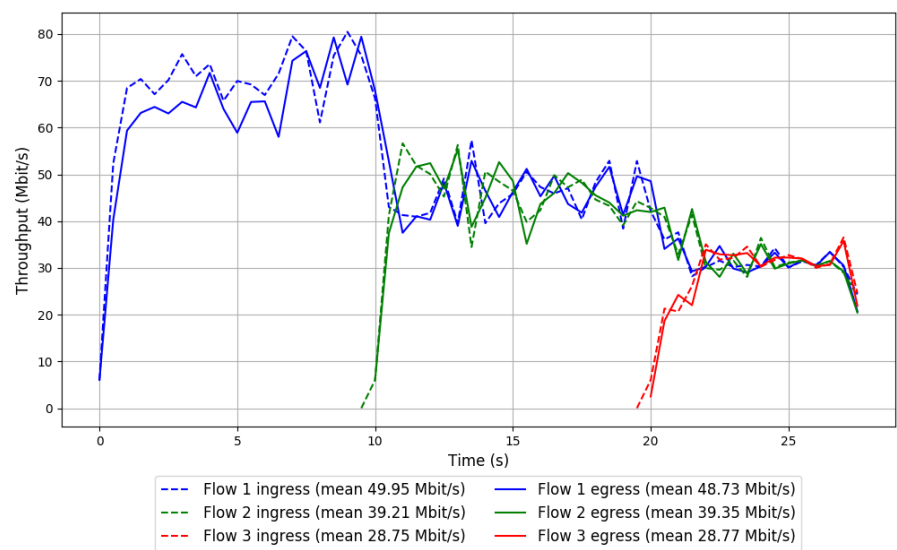


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 12:57:34
End at: 2018-01-26 12:58:04
Local clock offset: -0.272 ms
Remote clock offset: -7.661 ms

Below is generated by plot.py at 2018-01-26 17:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.94 Mbit/s
95th percentile per-packet one-way delay: 114.318 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 113.568 ms
Loss rate: 3.07%
-- Flow 2:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 113.411 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 28.77 Mbit/s
95th percentile per-packet one-way delay: 115.263 ms
Loss rate: 2.35%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 13:18:56

End at: 2018-01-26 13:19:26

Local clock offset: -0.253 ms

Remote clock offset: 2.9 ms

Below is generated by plot.py at 2018-01-26 17:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 100.243 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 96.739 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 101.861 ms

Loss rate: 0.86%

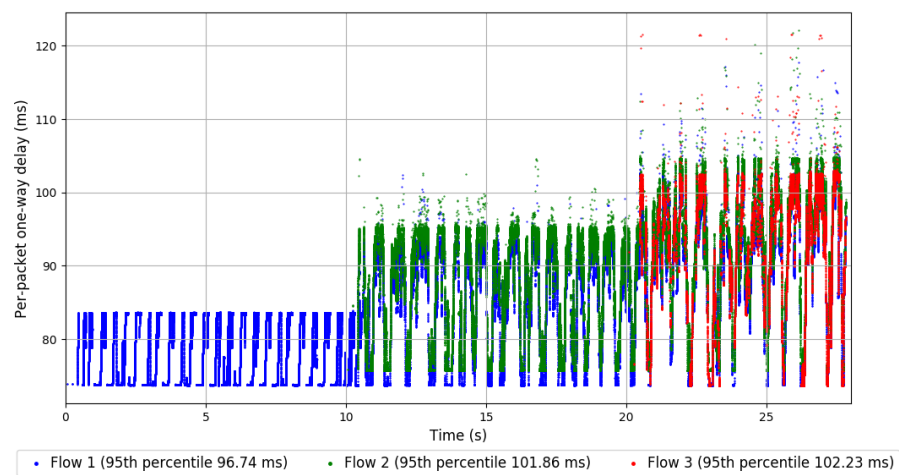
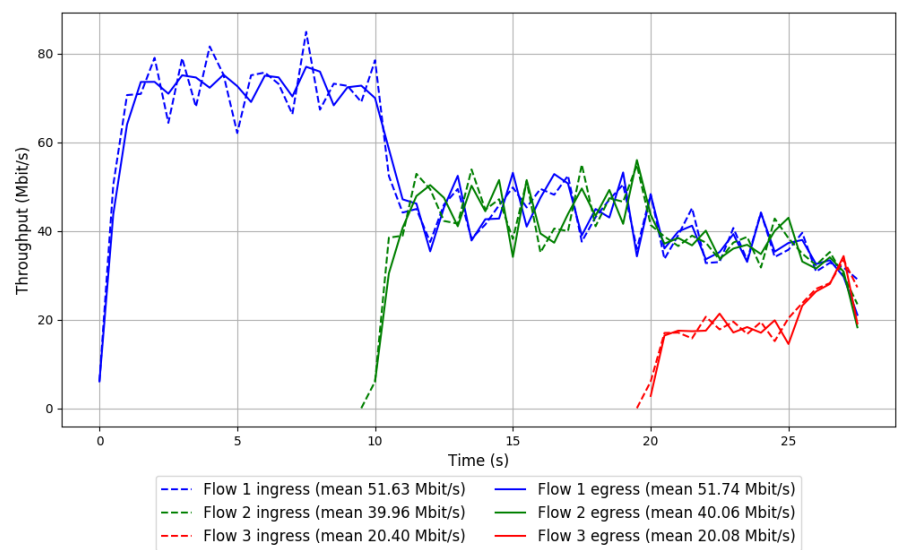
-- Flow 3:

Average throughput: 20.08 Mbit/s

95th percentile per-packet one-way delay: 102.226 ms

Loss rate: 4.46%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 13:40:24

End at: 2018-01-26 13:40:54

Local clock offset: -0.237 ms

Remote clock offset: 2.004 ms

Below is generated by plot.py at 2018-01-26 17:49:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.32 Mbit/s

95th percentile per-packet one-way delay: 101.255 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 52.43 Mbit/s

95th percentile per-packet one-way delay: 98.020 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 102.446 ms

Loss rate: 0.88%

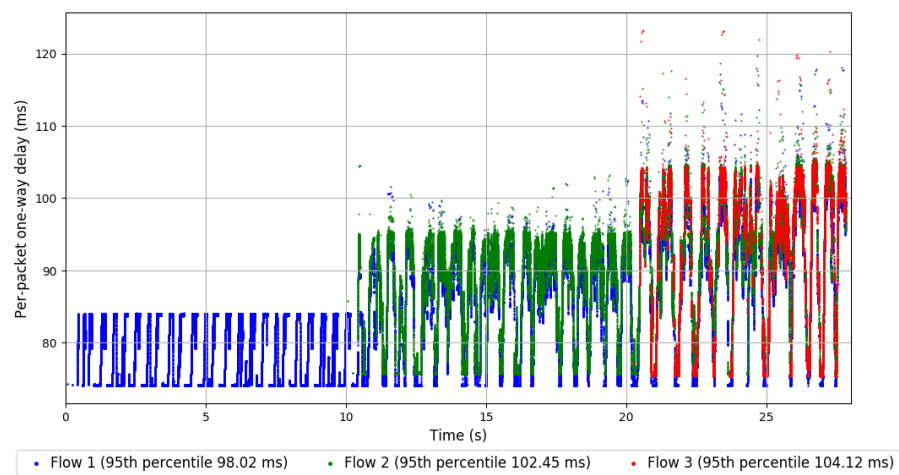
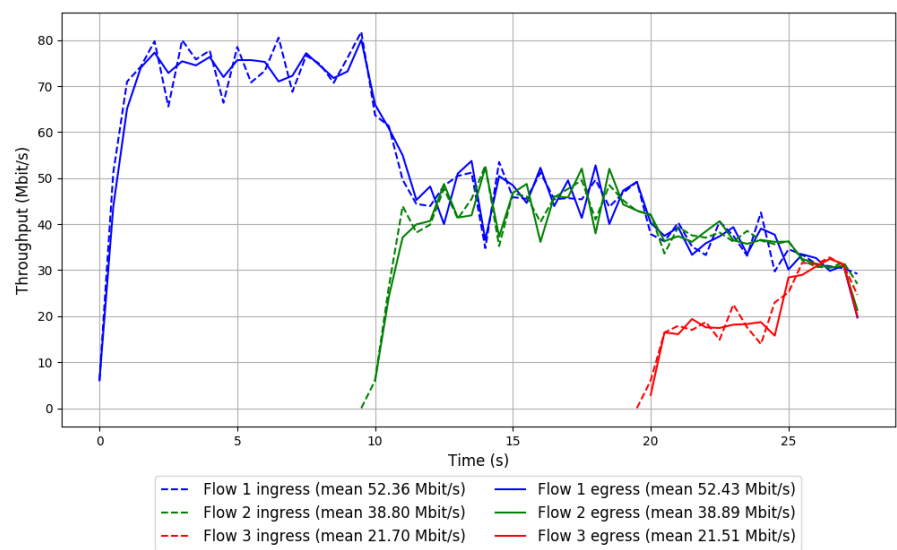
-- Flow 3:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 104.121 ms

Loss rate: 3.45%

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

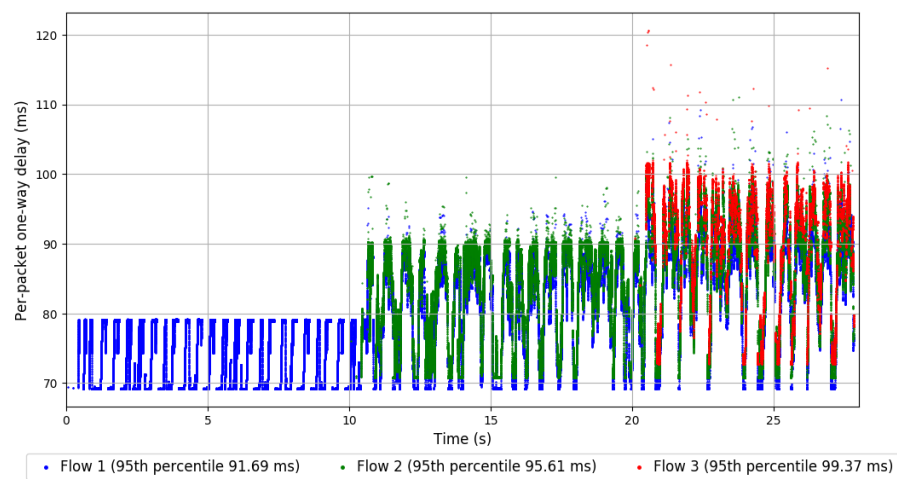
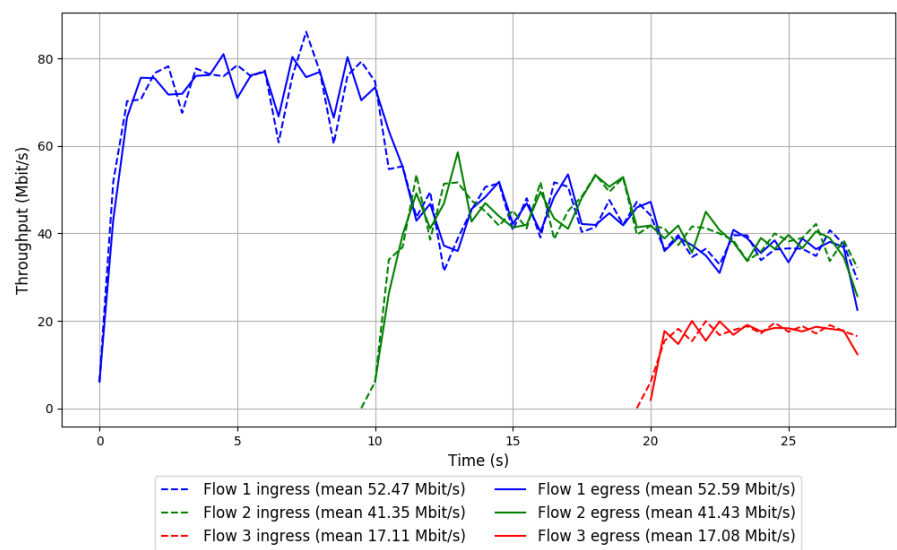


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 14:01:54
End at: 2018-01-26 14:02:24
Local clock offset: -0.125 ms
Remote clock offset: 6.456 ms

# Below is generated by plot.py at 2018-01-26 17:51:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 94.815 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 91.694 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 41.43 Mbit/s
95th percentile per-packet one-way delay: 95.614 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 17.08 Mbit/s
95th percentile per-packet one-way delay: 99.366 ms
Loss rate: 2.70%
```

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

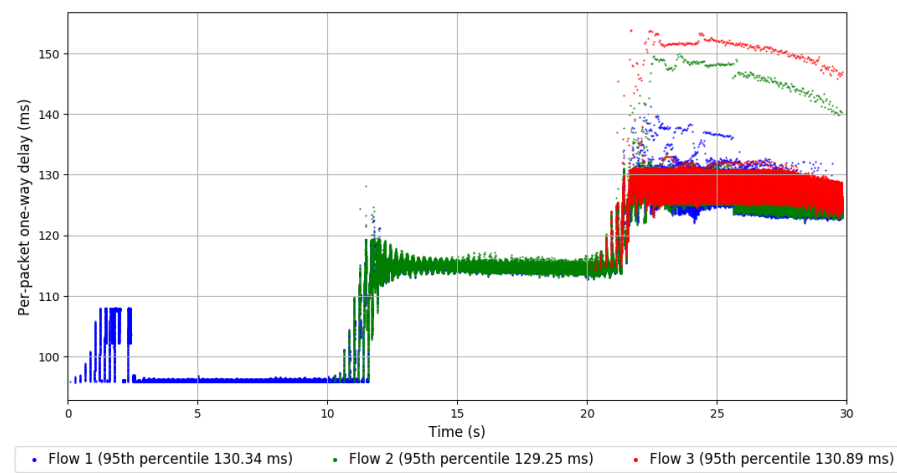
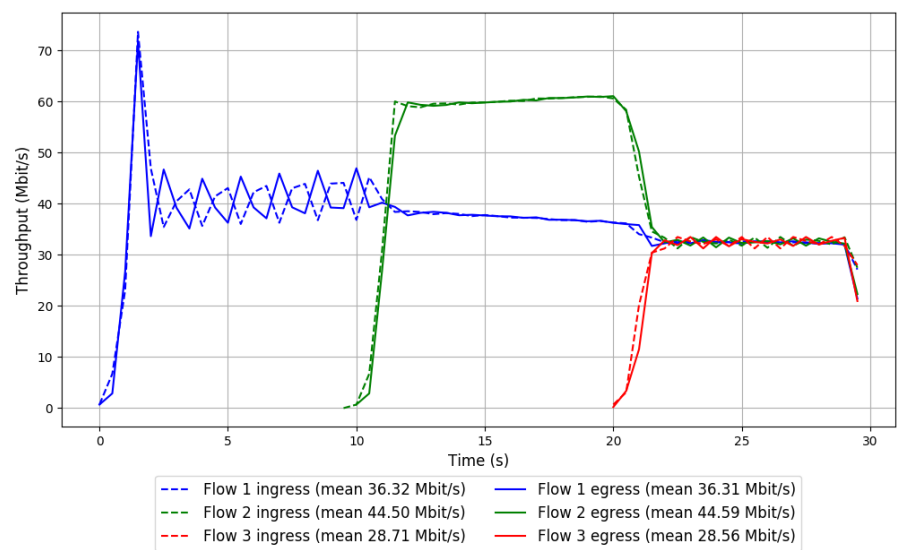


Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 10:45:40
End at: 2018-01-26 10:46:10
Local clock offset: -0.208 ms
Remote clock offset: -18.356 ms

Below is generated by plot.py at 2018-01-26 17:51:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.22 Mbit/s
95th percentile per-packet one-way delay: 130.437 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 130.345 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 44.59 Mbit/s
95th percentile per-packet one-way delay: 129.249 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 28.56 Mbit/s
95th percentile per-packet one-way delay: 130.891 ms
Loss rate: 2.53%

Run 1: Report of TCP Vegas — Data Link

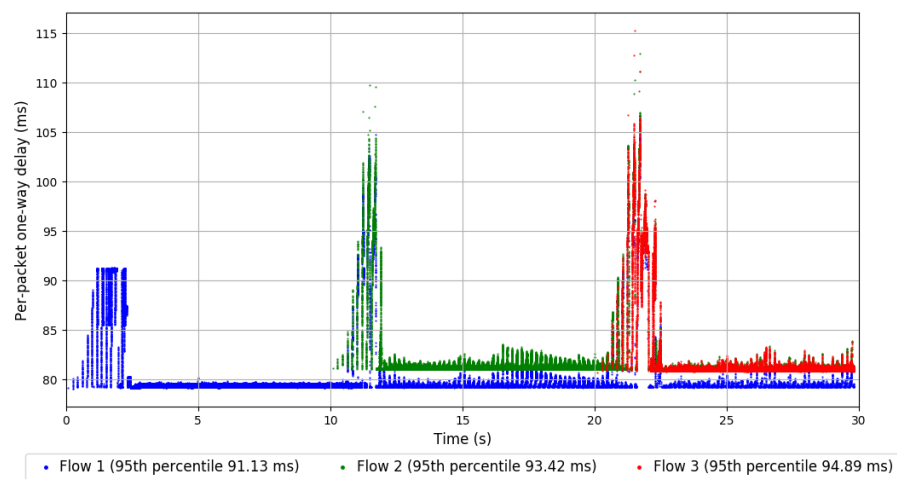
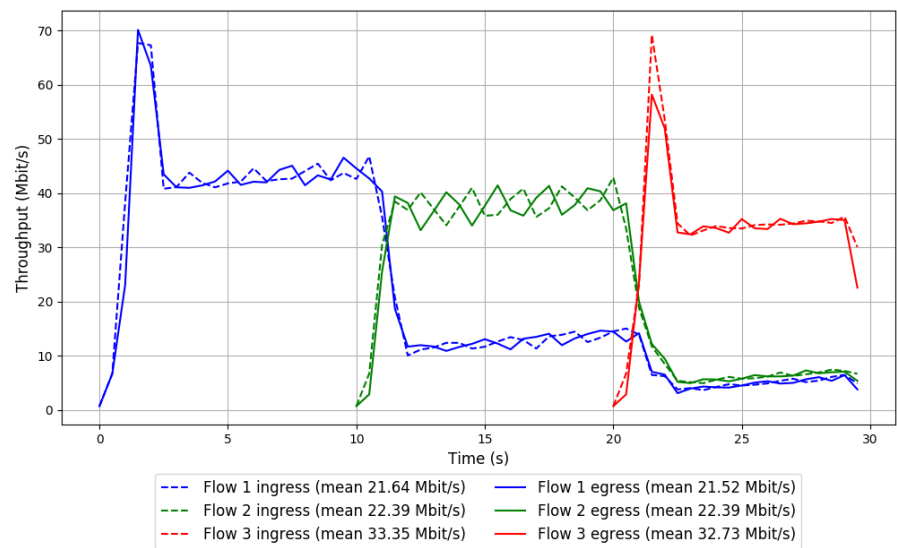


Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 11:06:53
End at: 2018-01-26 11:07:23
Local clock offset: -0.141 ms
Remote clock offset: -2.584 ms

Below is generated by plot.py at 2018-01-26 17:51:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.07 Mbit/s
95th percentile per-packet one-way delay: 92.442 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 21.52 Mbit/s
95th percentile per-packet one-way delay: 91.130 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 22.39 Mbit/s
95th percentile per-packet one-way delay: 93.421 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 32.73 Mbit/s
95th percentile per-packet one-way delay: 94.888 ms
Loss rate: 3.70%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 11:28:07

End at: 2018-01-26 11:28:37

Local clock offset: -0.213 ms

Remote clock offset: 2.855 ms

Below is generated by plot.py at 2018-01-26 17:51:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.16 Mbit/s

95th percentile per-packet one-way delay: 110.184 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 110.352 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 109.911 ms

Loss rate: 1.01%

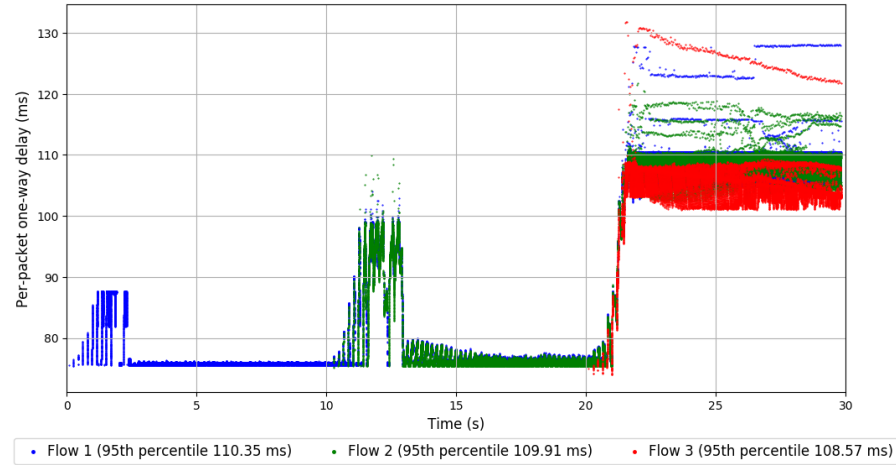
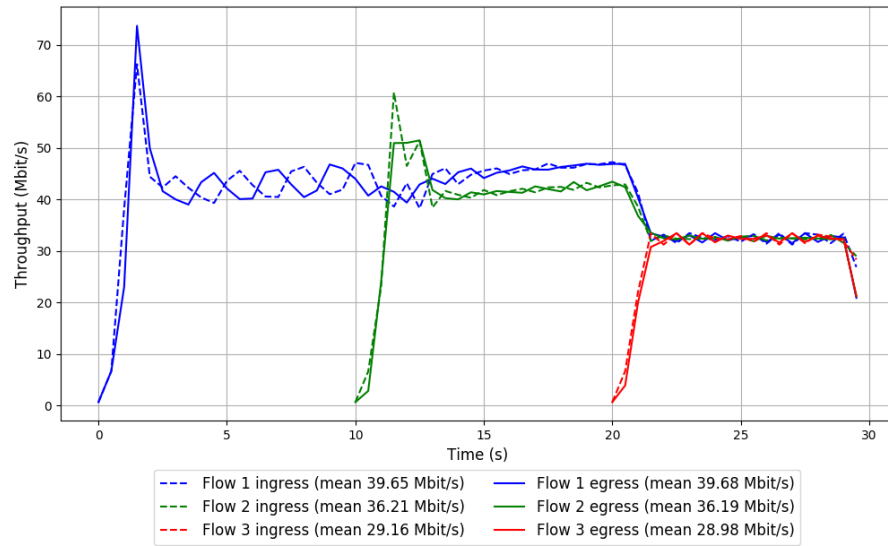
-- Flow 3:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 108.566 ms

Loss rate: 2.39%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 11:49:29

End at: 2018-01-26 11:49:59

Local clock offset: -0.317 ms

Remote clock offset: 7.922 ms

Below is generated by plot.py at 2018-01-26 17:51:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.13 Mbit/s

95th percentile per-packet one-way delay: 91.729 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 91.242 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 91.964 ms

Loss rate: 0.77%

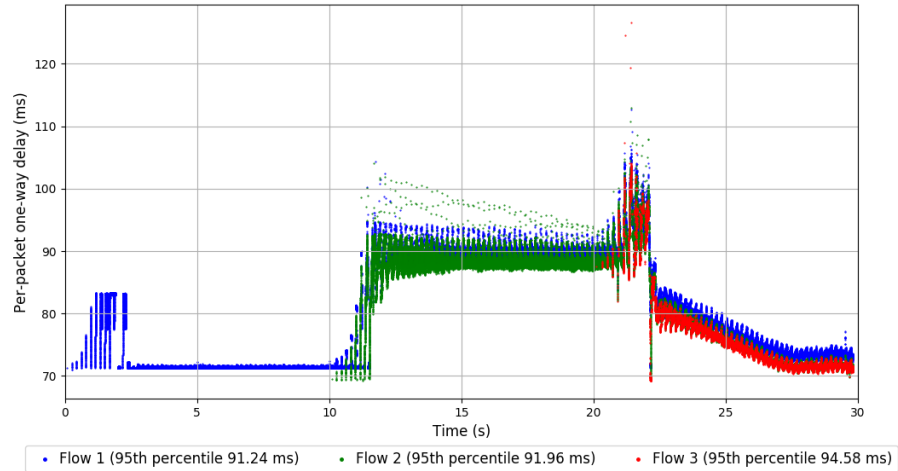
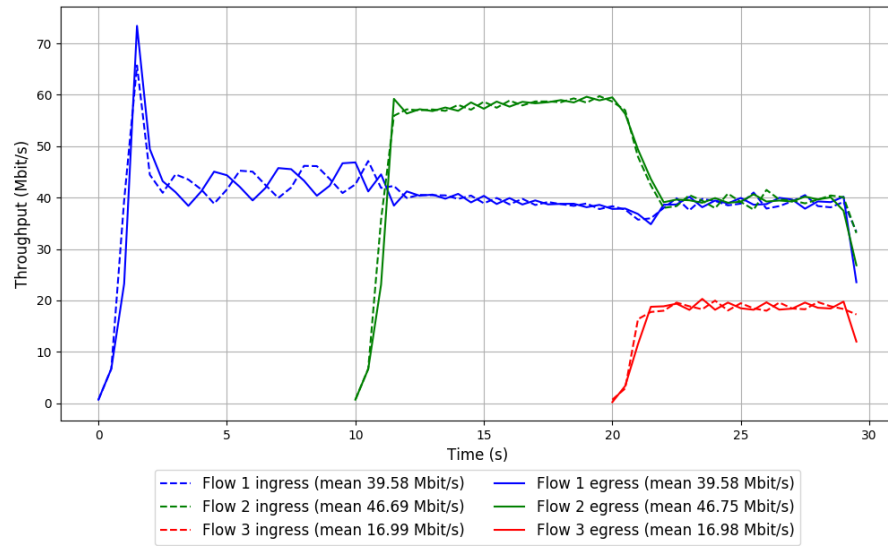
-- Flow 3:

Average throughput: 16.98 Mbit/s

95th percentile per-packet one-way delay: 94.582 ms

Loss rate: 2.14%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 12:10:35

End at: 2018-01-26 12:11:05

Local clock offset: -0.319 ms

Remote clock offset: 1.914 ms

Below is generated by plot.py at 2018-01-26 17:51:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 102.817 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 38.53 Mbit/s

95th percentile per-packet one-way delay: 100.804 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 103.973 ms

Loss rate: 1.46%

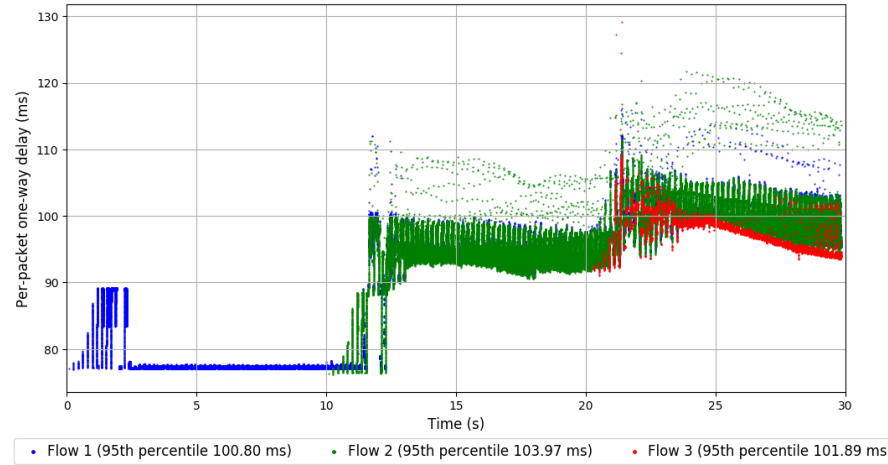
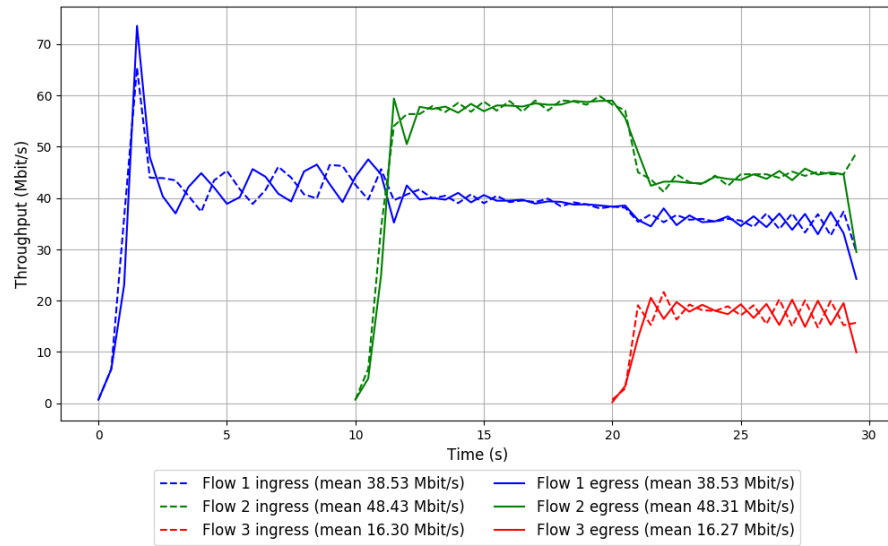
-- Flow 3:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 101.889 ms

Loss rate: 2.15%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 12:31:54

End at: 2018-01-26 12:32:24

Local clock offset: -0.239 ms

Remote clock offset: 2.012 ms

Below is generated by plot.py at 2018-01-26 17:51:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.30 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 111.363 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 113.306 ms

Loss rate: 0.92%

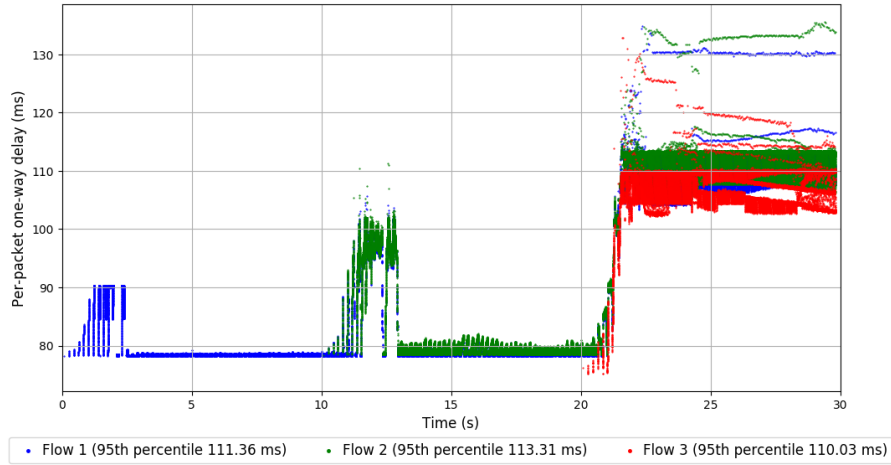
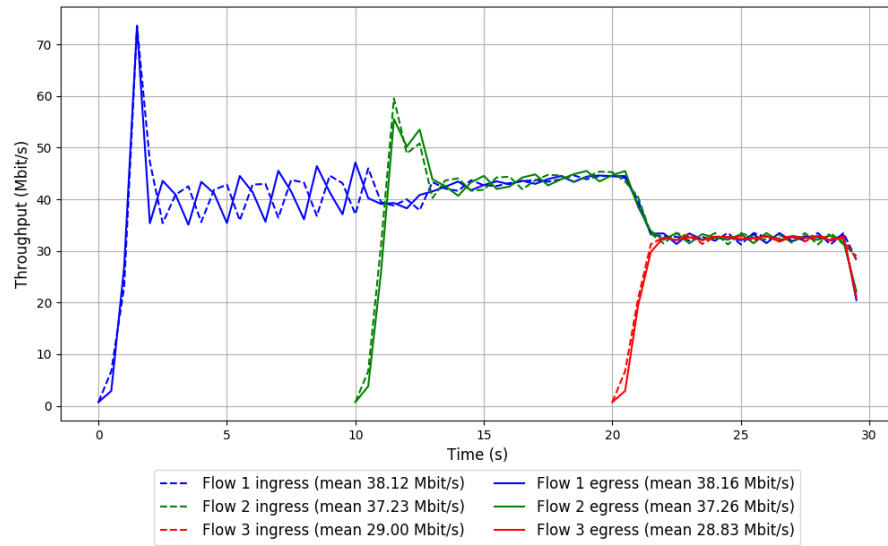
-- Flow 3:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 110.031 ms

Loss rate: 2.44%

Run 6: Report of TCP Vegas — Data Link

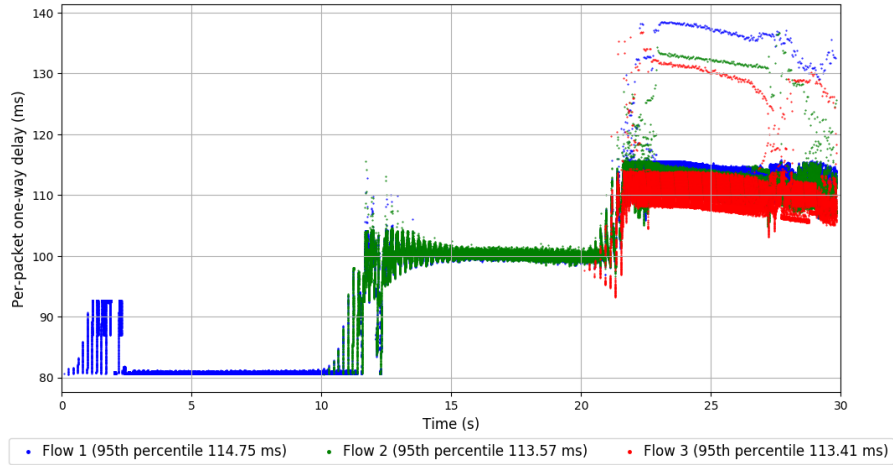
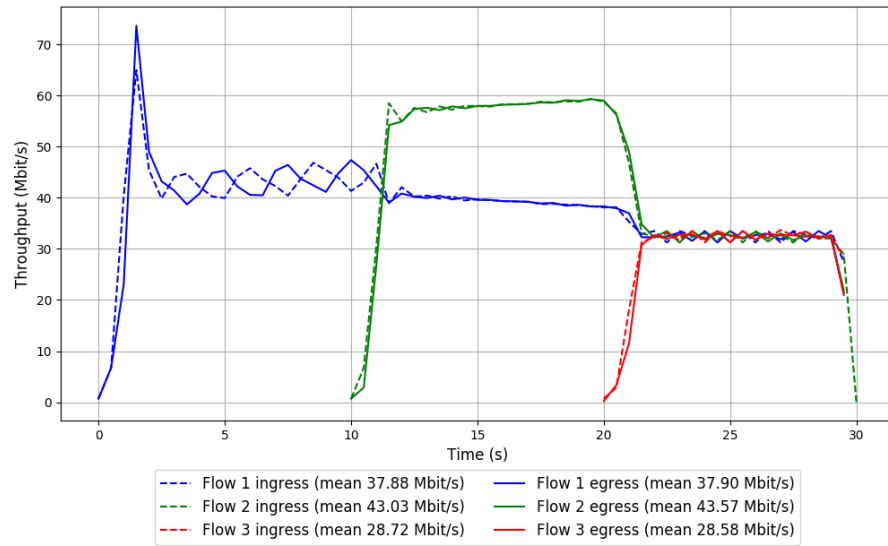


Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 12:53:18
End at: 2018-01-26 12:53:48
Local clock offset: -0.291 ms
Remote clock offset: -1.916 ms

Below is generated by plot.py at 2018-01-26 17:51:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.12 Mbit/s
95th percentile per-packet one-way delay: 114.314 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 37.90 Mbit/s
95th percentile per-packet one-way delay: 114.752 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: 113.572 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 113.409 ms
Loss rate: 2.49%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 13:14:51

End at: 2018-01-26 13:15:21

Local clock offset: -0.228 ms

Remote clock offset: 7.991 ms

Below is generated by plot.py at 2018-01-26 17:51:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.92 Mbit/s

95th percentile per-packet one-way delay: 103.639 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 38.54 Mbit/s

95th percentile per-packet one-way delay: 102.430 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 37.54 Mbit/s

95th percentile per-packet one-way delay: 103.699 ms

Loss rate: 0.98%

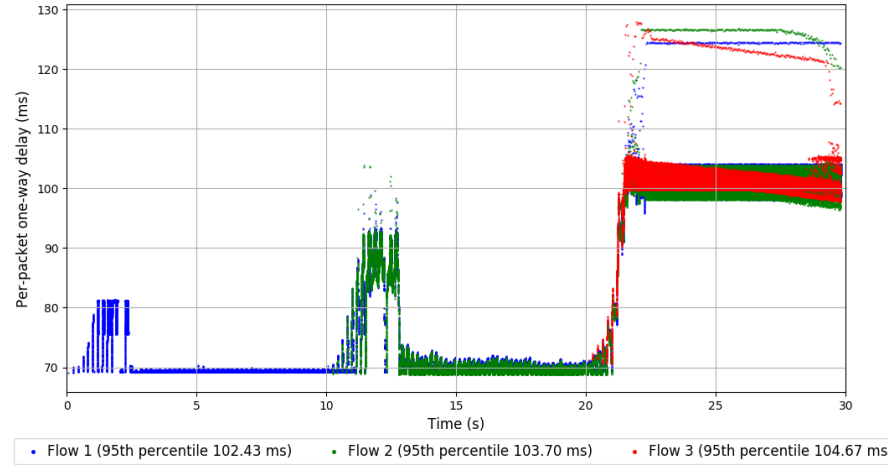
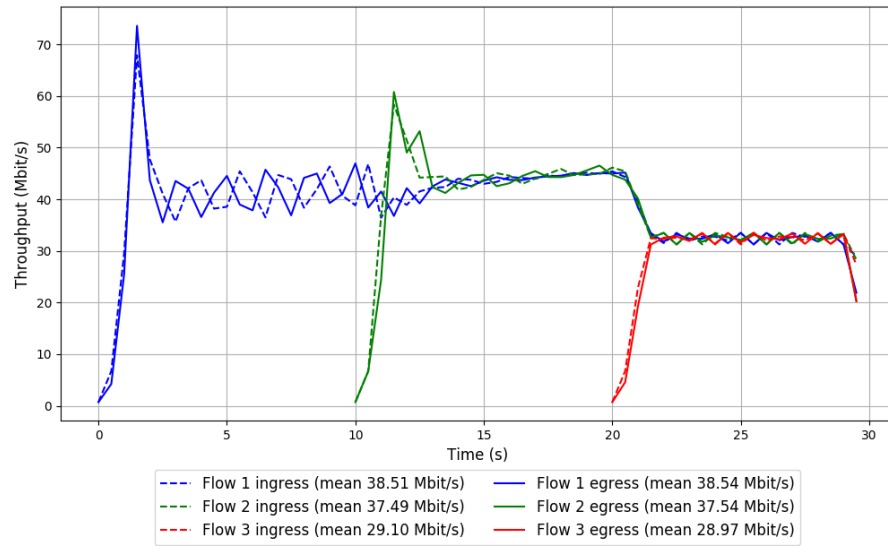
-- Flow 3:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 104.673 ms

Loss rate: 2.39%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 13:36:19

End at: 2018-01-26 13:36:49

Local clock offset: -0.242 ms

Remote clock offset: 2.113 ms

Below is generated by plot.py at 2018-01-26 17:51:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 96.686 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 42.31 Mbit/s

95th percentile per-packet one-way delay: 96.490 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 46.58 Mbit/s

95th percentile per-packet one-way delay: 97.087 ms

Loss rate: 0.96%

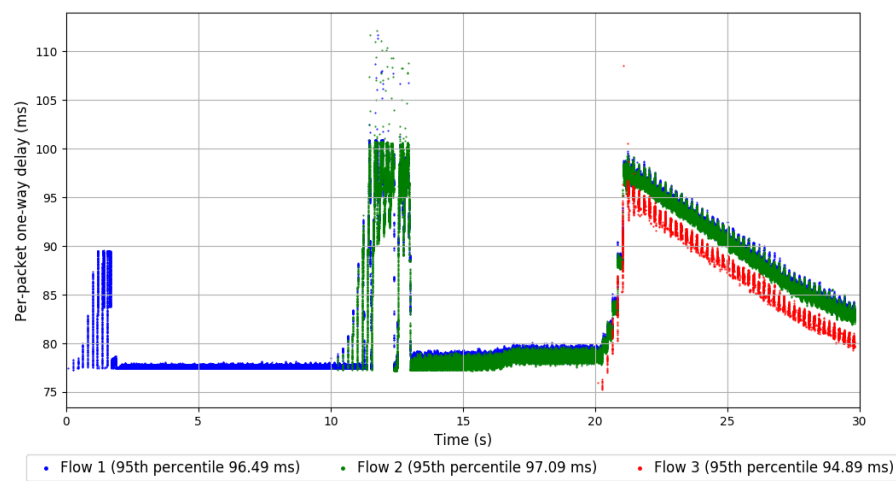
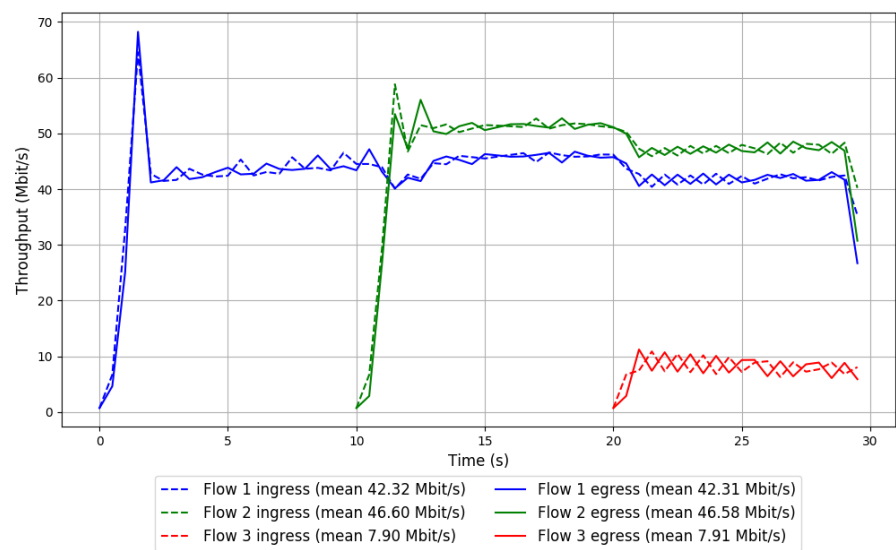
-- Flow 3:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 94.886 ms

Loss rate: 1.90%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 13:57:49

End at: 2018-01-26 13:58:19

Local clock offset: -0.162 ms

Remote clock offset: 7.479 ms

Below is generated by plot.py at 2018-01-26 17:51:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 91.138 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 38.88 Mbit/s

95th percentile per-packet one-way delay: 91.082 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 90.680 ms

Loss rate: 0.75%

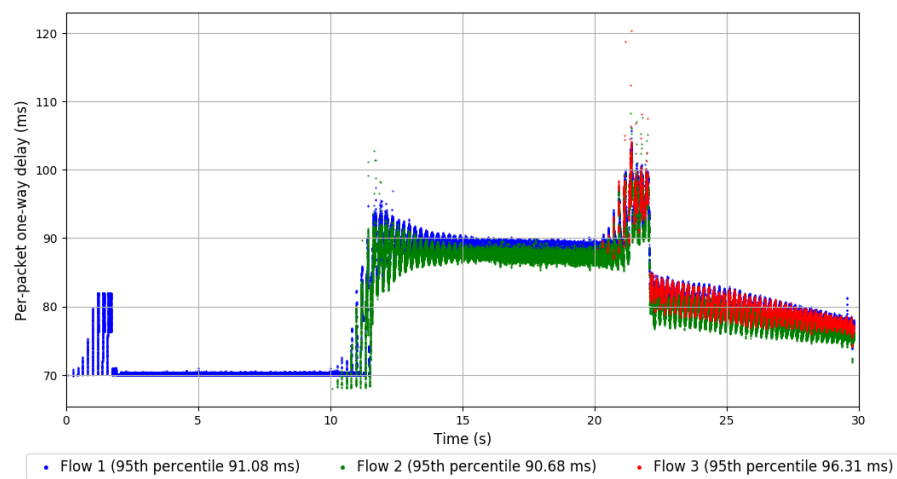
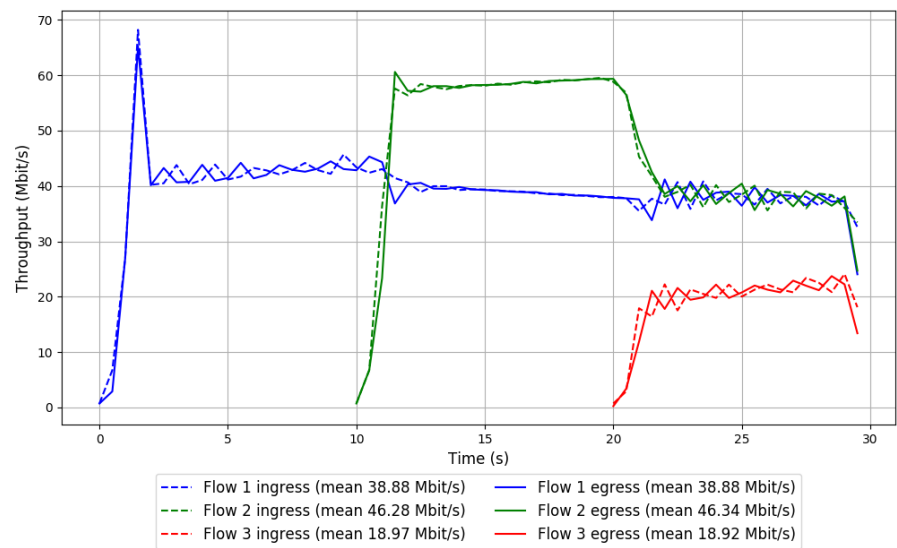
-- Flow 3:

Average throughput: 18.92 Mbit/s

95th percentile per-packet one-way delay: 96.311 ms

Loss rate: 2.27%

Run 10: Report of TCP Vegas — Data Link

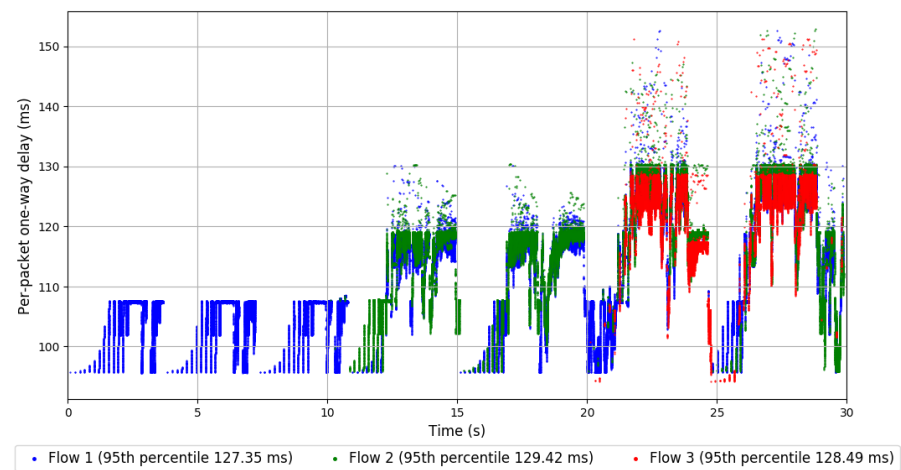
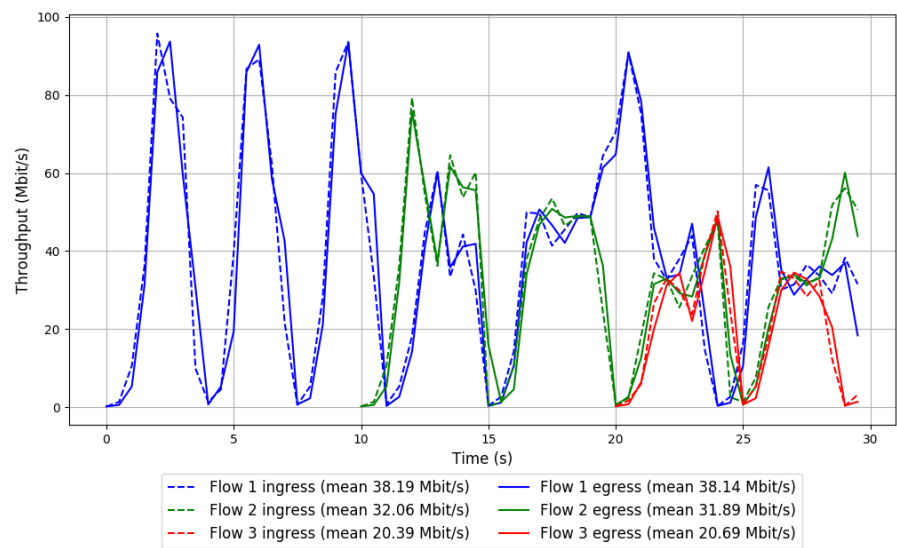


Run 1: Statistics of Verus

Start at: 2018-01-26 10:47:00
End at: 2018-01-26 10:47:30
Local clock offset: -0.228 ms
Remote clock offset: -18.324 ms

Below is generated by plot.py at 2018-01-26 17:51:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 128.488 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 127.348 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 129.421 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 20.69 Mbit/s
95th percentile per-packet one-way delay: 128.491 ms
Loss rate: 0.45%

Run 1: Report of Verus — Data Link

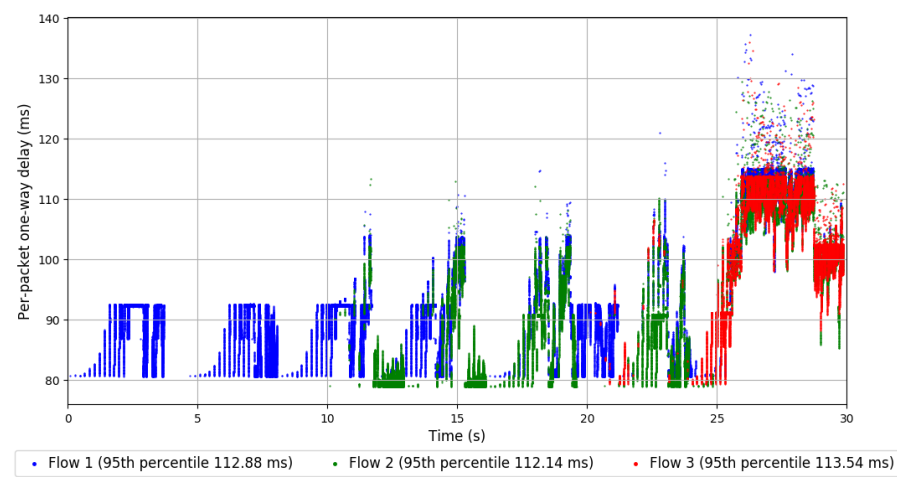
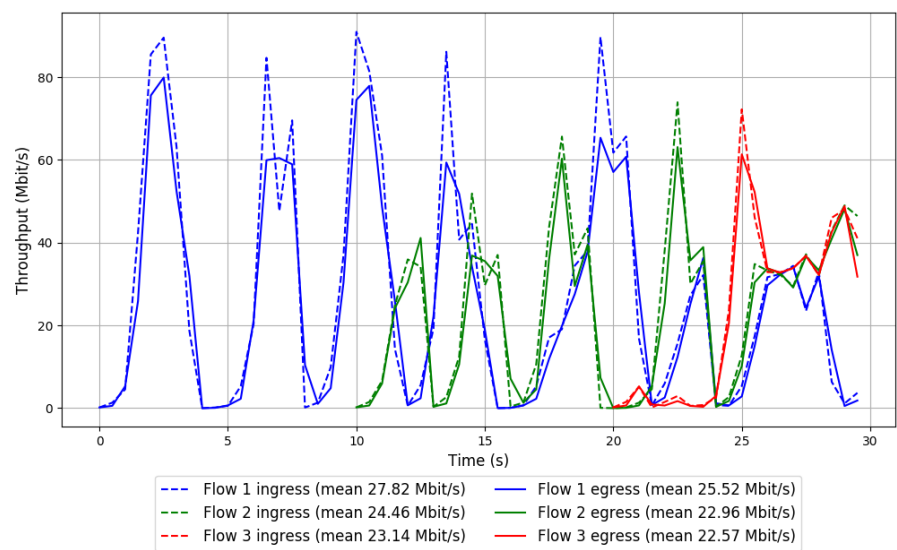


Run 2: Statistics of Verus

Start at: 2018-01-26 11:08:11
End at: 2018-01-26 11:08:41
Local clock offset: -0.132 ms
Remote clock offset: -2.606 ms

Below is generated by plot.py at 2018-01-26 17:51:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.07 Mbit/s
95th percentile per-packet one-way delay: 112.915 ms
Loss rate: 7.68%
-- Flow 1:
Average throughput: 25.52 Mbit/s
95th percentile per-packet one-way delay: 112.879 ms
Loss rate: 8.91%
-- Flow 2:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 112.144 ms
Loss rate: 7.04%
-- Flow 3:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 113.540 ms
Loss rate: 4.62%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 11:29:27

End at: 2018-01-26 11:29:57

Local clock offset: -0.235 ms

Remote clock offset: 1.937 ms

Below is generated by plot.py at 2018-01-26 17:51:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 108.953 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 106.770 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 30.52 Mbit/s

95th percentile per-packet one-way delay: 110.151 ms

Loss rate: 1.20%

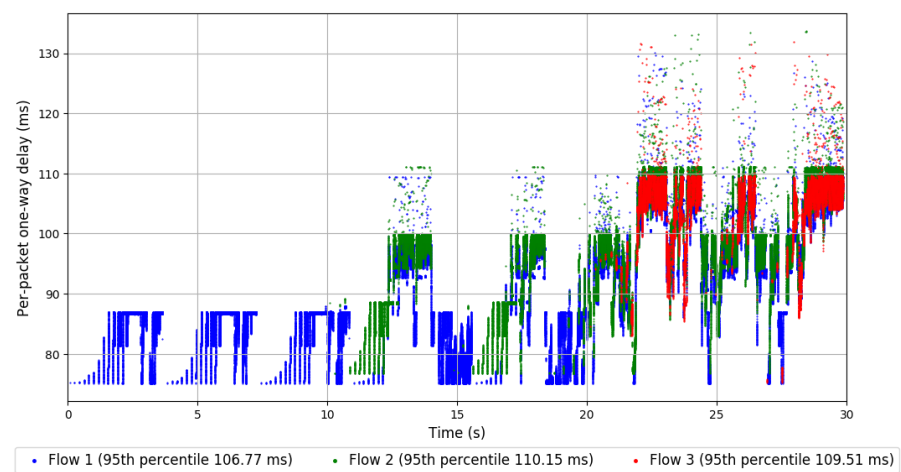
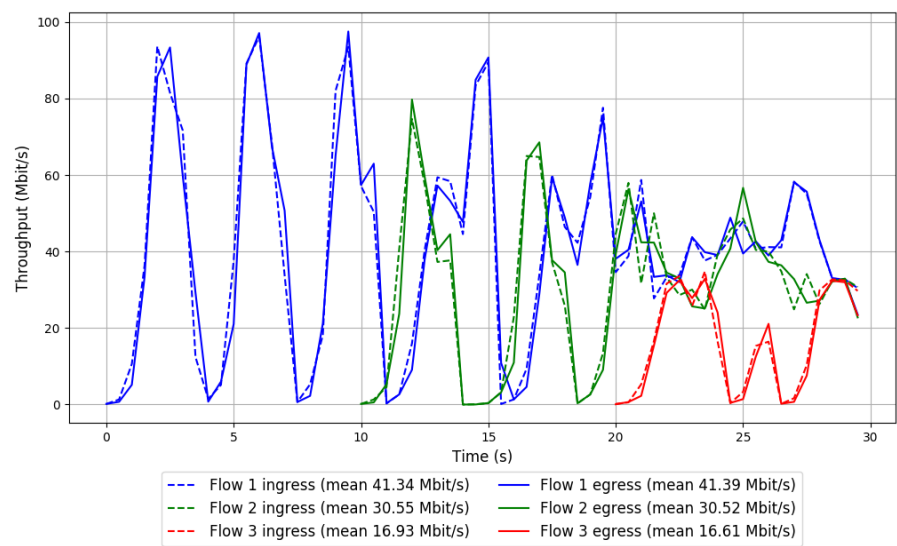
-- Flow 3:

Average throughput: 16.61 Mbit/s

95th percentile per-packet one-way delay: 109.512 ms

Loss rate: 4.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 11:50:49

End at: 2018-01-26 11:51:19

Local clock offset: -0.385 ms

Remote clock offset: 8.049 ms

Below is generated by plot.py at 2018-01-26 17:52:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.79 Mbit/s

95th percentile per-packet one-way delay: 97.365 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 93.370 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 100.324 ms

Loss rate: 0.28%

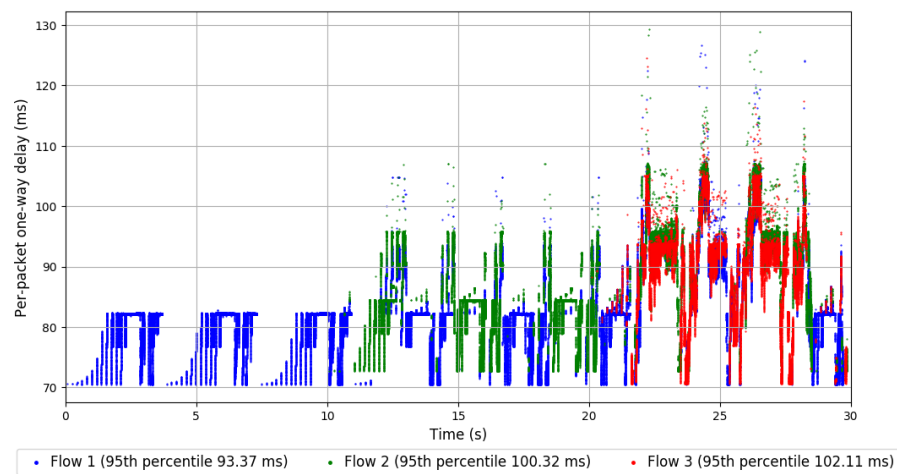
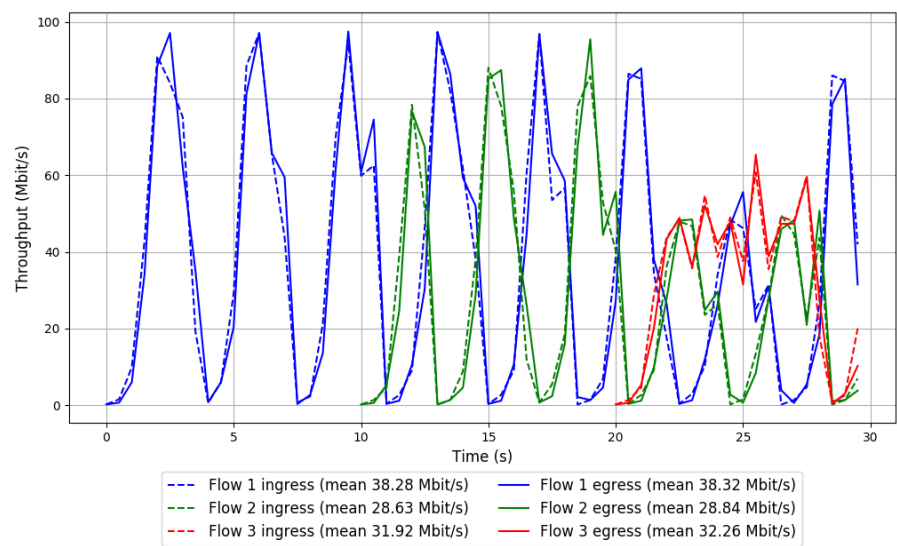
-- Flow 3:

Average throughput: 32.26 Mbit/s

95th percentile per-packet one-way delay: 102.109 ms

Loss rate: 1.54%

Run 4: Report of Verus — Data Link

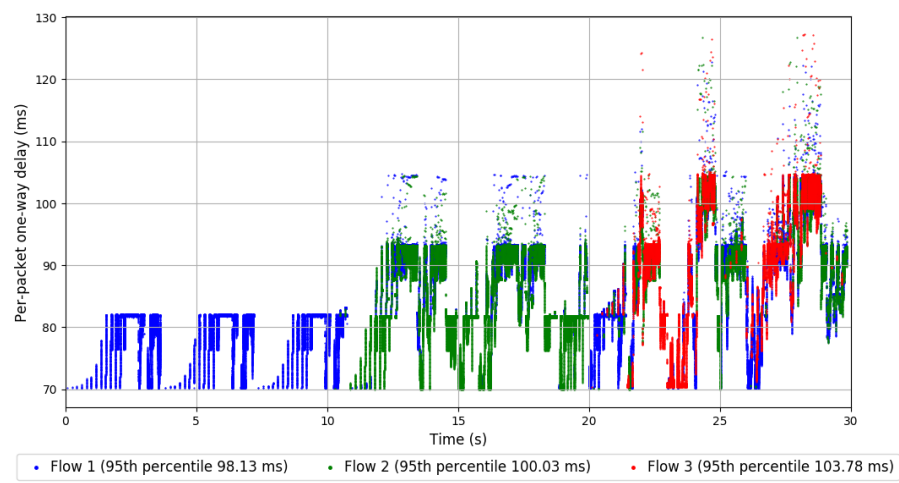
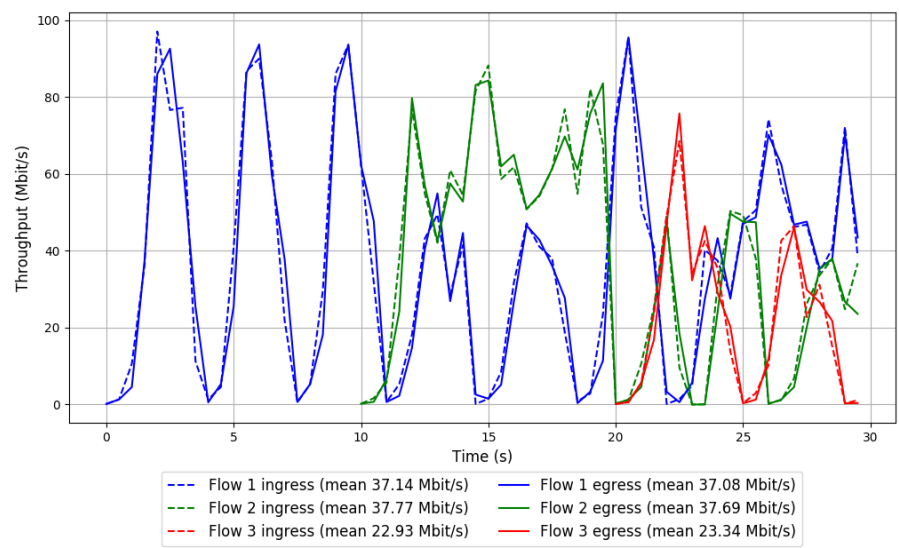


Run 5: Statistics of Verus

Start at: 2018-01-26 12:11:55
End at: 2018-01-26 12:12:25
Local clock offset: -0.394 ms
Remote clock offset: 8.605 ms

Below is generated by plot.py at 2018-01-26 17:52:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 100.633 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 37.08 Mbit/s
95th percentile per-packet one-way delay: 98.133 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 100.029 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 103.780 ms
Loss rate: 0.17%

Run 5: Report of Verus — Data Link

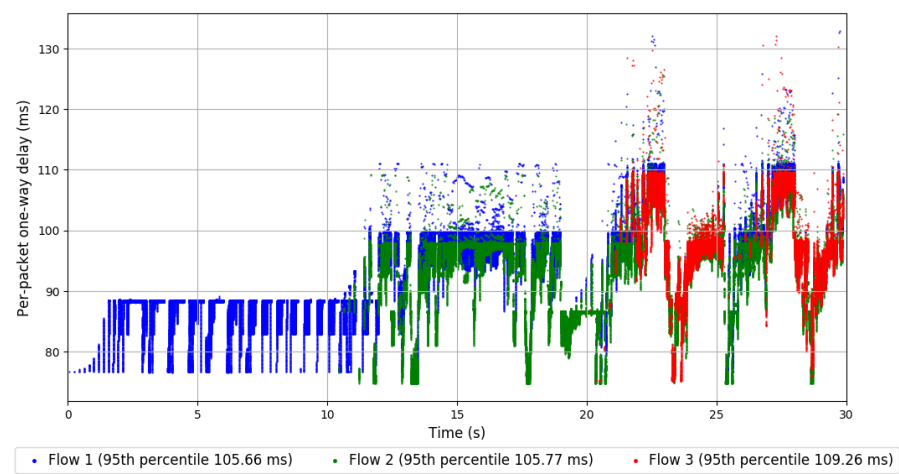
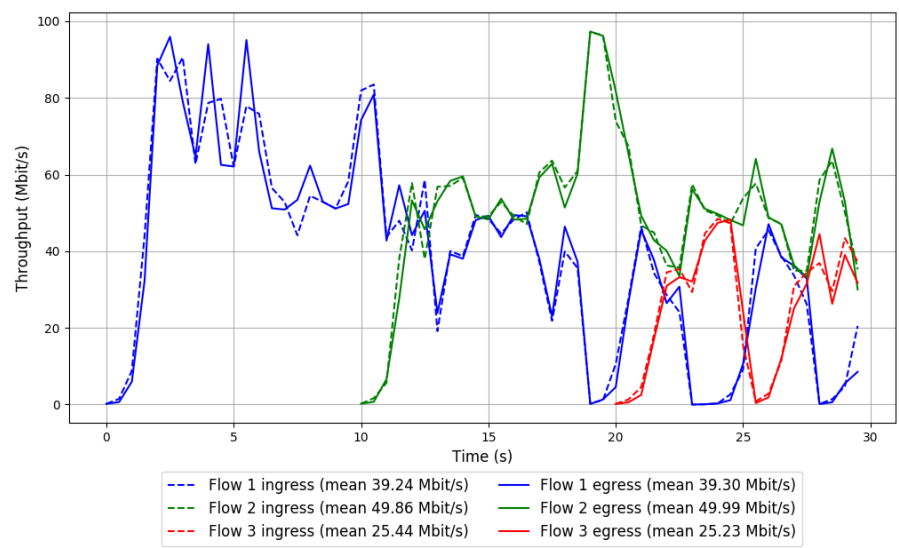


Run 6: Statistics of Verus

Start at: 2018-01-26 12:33:14
End at: 2018-01-26 12:33:44
Local clock offset: -0.243 ms
Remote clock offset: 1.968 ms

Below is generated by plot.py at 2018-01-26 17:52:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.73 Mbit/s
95th percentile per-packet one-way delay: 107.047 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 105.659 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 105.768 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 25.23 Mbit/s
95th percentile per-packet one-way delay: 109.259 ms
Loss rate: 2.99%

Run 6: Report of Verus — Data Link

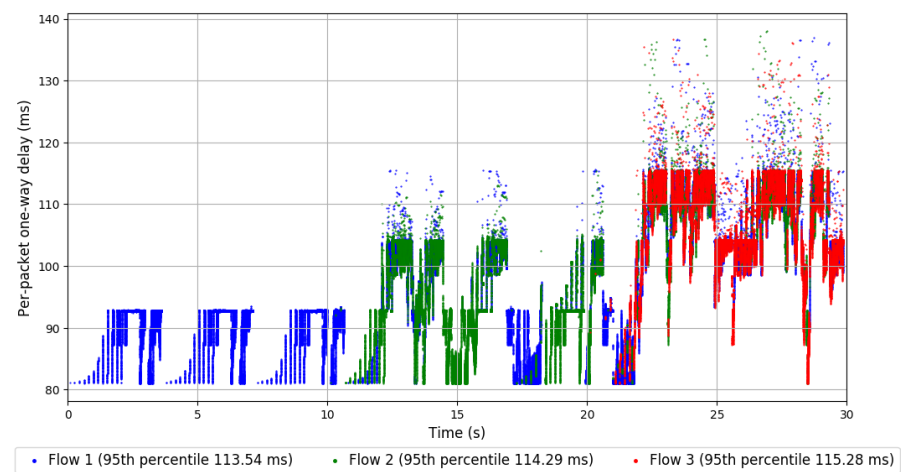
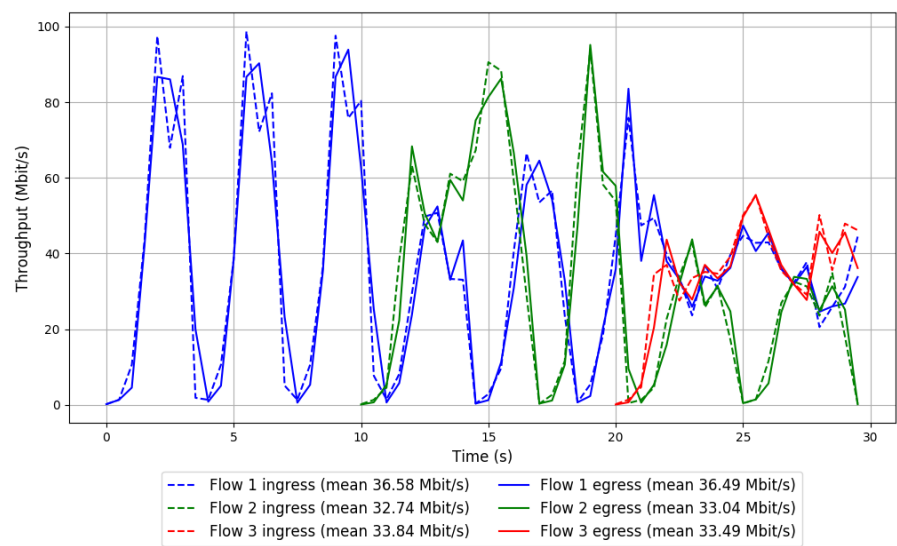


Run 7: Statistics of Verus

Start at: 2018-01-26 12:54:38
End at: 2018-01-26 12:55:08
Local clock offset: -0.183 ms
Remote clock offset: -3.688 ms

Below is generated by plot.py at 2018-01-26 17:52:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.23 Mbit/s
95th percentile per-packet one-way delay: 114.386 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 36.49 Mbit/s
95th percentile per-packet one-way delay: 113.544 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 114.294 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 115.277 ms
Loss rate: 3.13%

Run 7: Report of Verus — Data Link

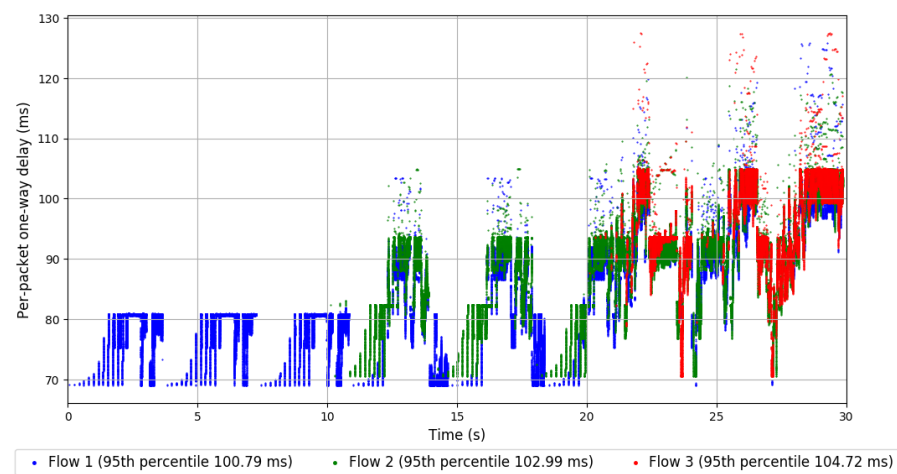
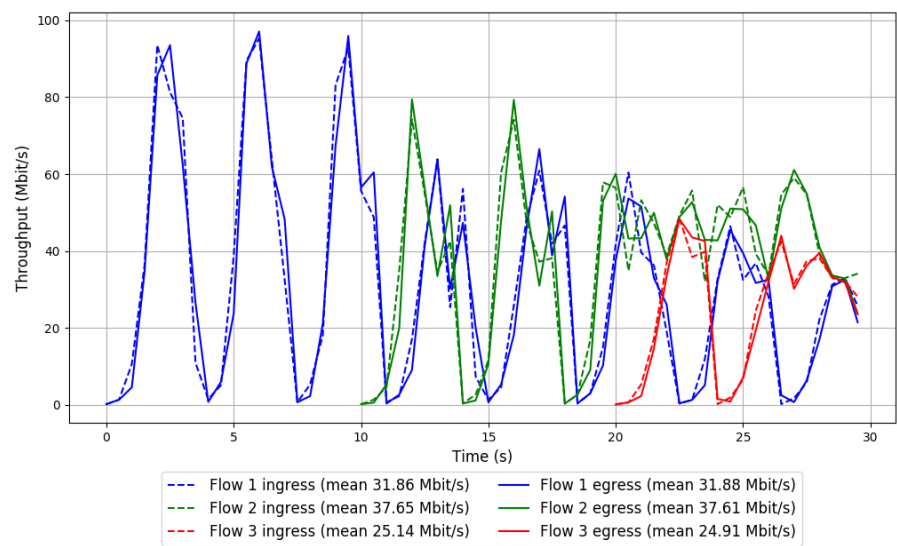


Run 8: Statistics of Verus

Start at: 2018-01-26 13:16:11
End at: 2018-01-26 13:16:41
Local clock offset: -0.308 ms
Remote clock offset: 7.866 ms

Below is generated by plot.py at 2018-01-26 17:52:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.95 Mbit/s
95th percentile per-packet one-way delay: 102.964 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 100.786 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 102.994 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 104.725 ms
Loss rate: 2.38%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-26 13:37:39

End at: 2018-01-26 13:38:09

Local clock offset: -0.212 ms

Remote clock offset: 1.181 ms

Below is generated by plot.py at 2018-01-26 17:52:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.04 Mbit/s

95th percentile per-packet one-way delay: 106.770 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 38.64 Mbit/s

95th percentile per-packet one-way delay: 102.222 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 108.233 ms

Loss rate: 1.35%

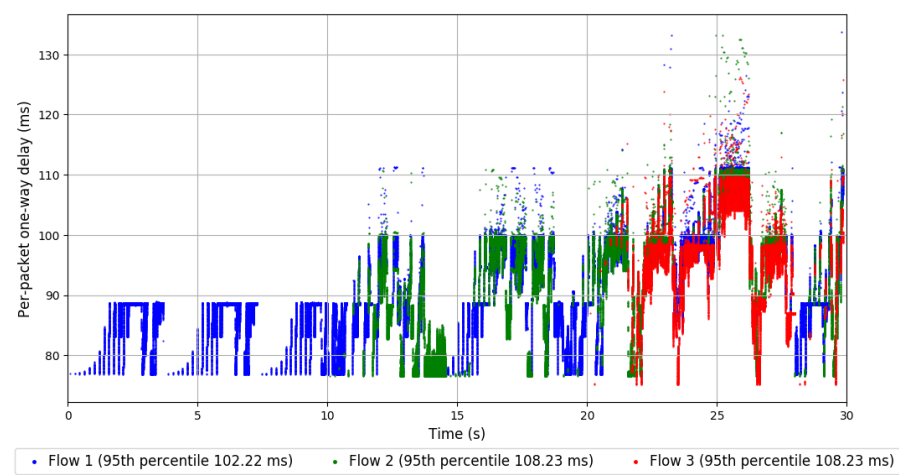
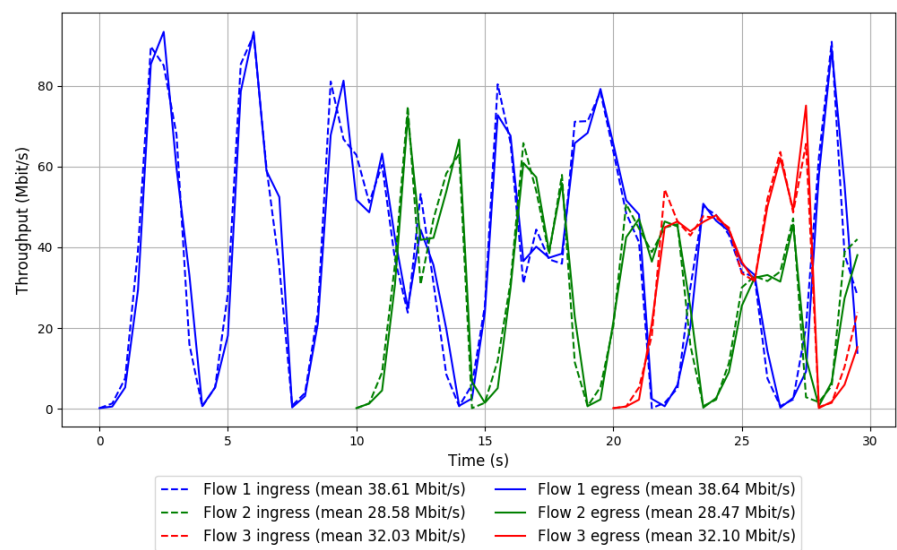
-- Flow 3:

Average throughput: 32.10 Mbit/s

95th percentile per-packet one-way delay: 108.231 ms

Loss rate: 2.03%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 13:59:09

End at: 2018-01-26 13:59:39

Local clock offset: -0.142 ms

Remote clock offset: 1.714 ms

Below is generated by plot.py at 2018-01-26 17:52:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.48 Mbit/s

95th percentile per-packet one-way delay: 107.220 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 35.67 Mbit/s

95th percentile per-packet one-way delay: 104.908 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 30.66 Mbit/s

95th percentile per-packet one-way delay: 107.513 ms

Loss rate: 1.65%

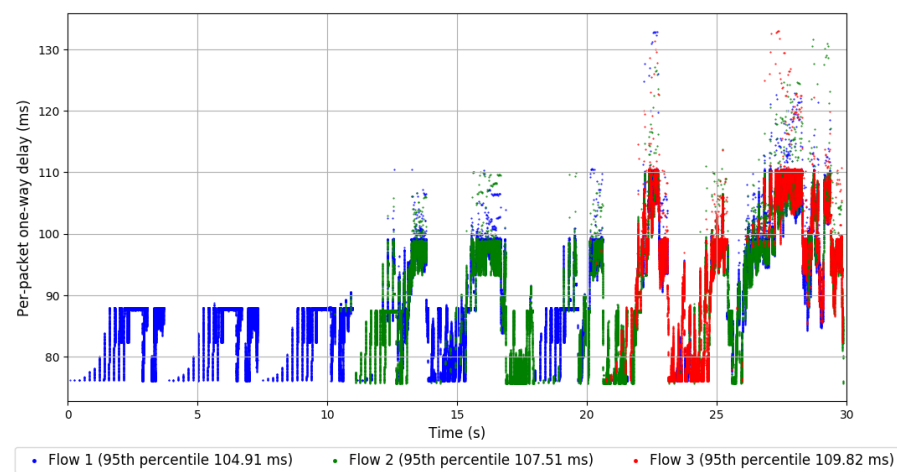
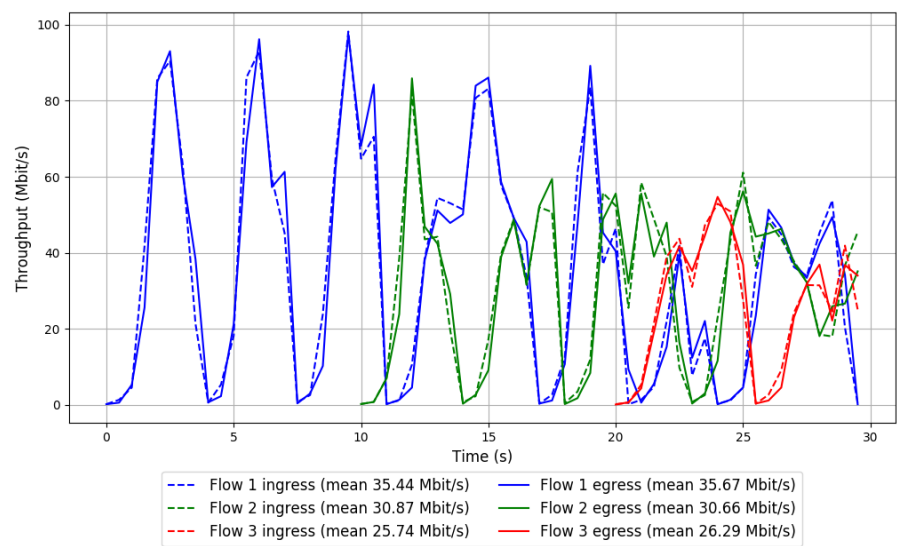
-- Flow 3:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 109.817 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link

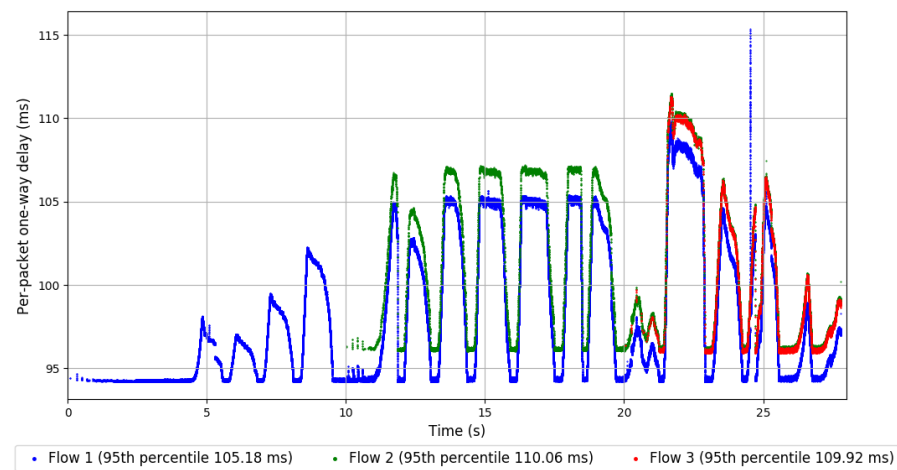
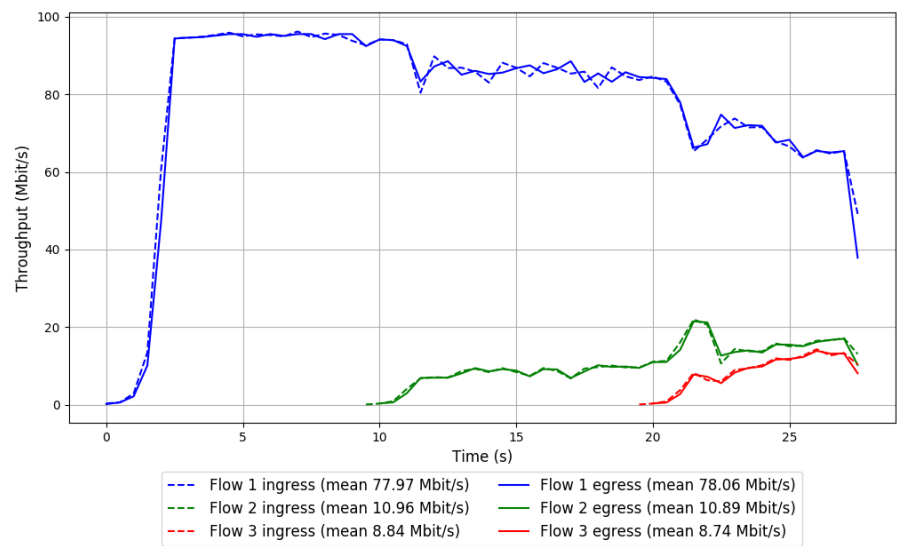


Run 1: Statistics of Copa

Start at: 2018-01-26 10:48:20
End at: 2018-01-26 10:48:50
Local clock offset: -0.164 ms
Remote clock offset: -18.257 ms

Below is generated by plot.py at 2018-01-26 17:53:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 106.845 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 78.06 Mbit/s
95th percentile per-packet one-way delay: 105.181 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 110.062 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 109.922 ms
Loss rate: 3.51%

Run 1: Report of Copa — Data Link

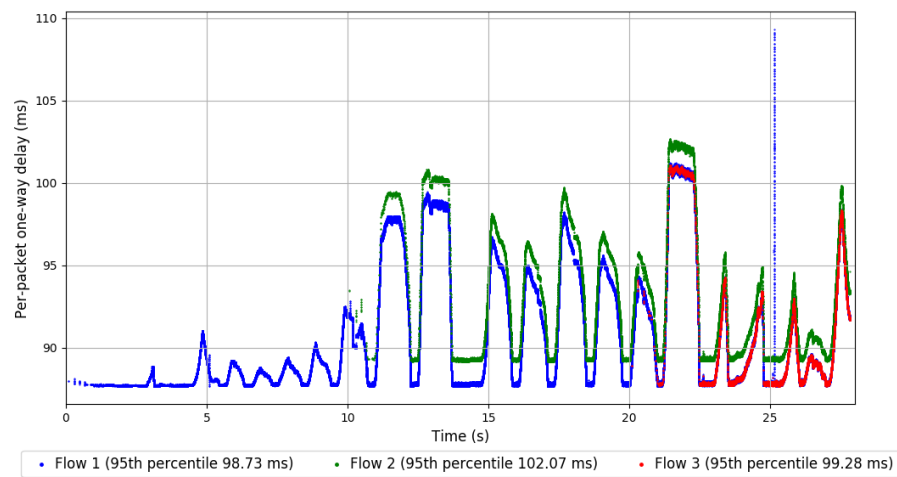
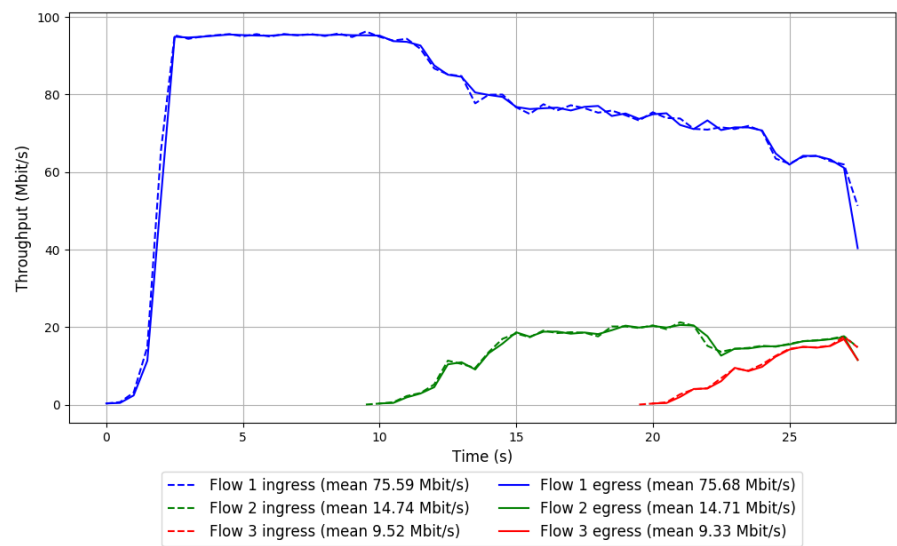


Run 2: Statistics of Copa

Start at: 2018-01-26 11:09:30
End at: 2018-01-26 11:10:00
Local clock offset: -0.133 ms
Remote clock offset: -9.157 ms

Below is generated by plot.py at 2018-01-26 17:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.70 Mbit/s
95th percentile per-packet one-way delay: 98.898 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 75.68 Mbit/s
95th percentile per-packet one-way delay: 98.728 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 14.71 Mbit/s
95th percentile per-packet one-way delay: 102.068 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 99.277 ms
Loss rate: 4.35%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 11:30:48

End at: 2018-01-26 11:31:18

Local clock offset: -0.241 ms

Remote clock offset: 2.831 ms

Below is generated by plot.py at 2018-01-26 17:54:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 87.574 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 87.450 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 88.393 ms

Loss rate: 1.20%

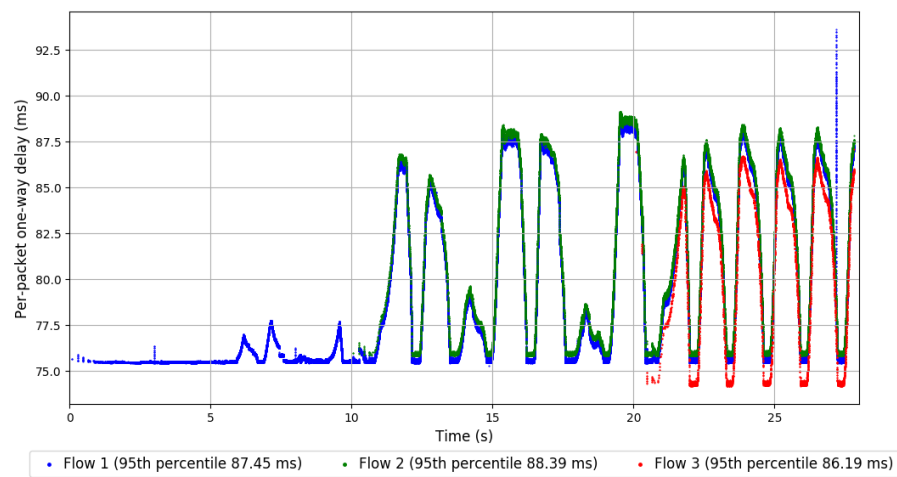
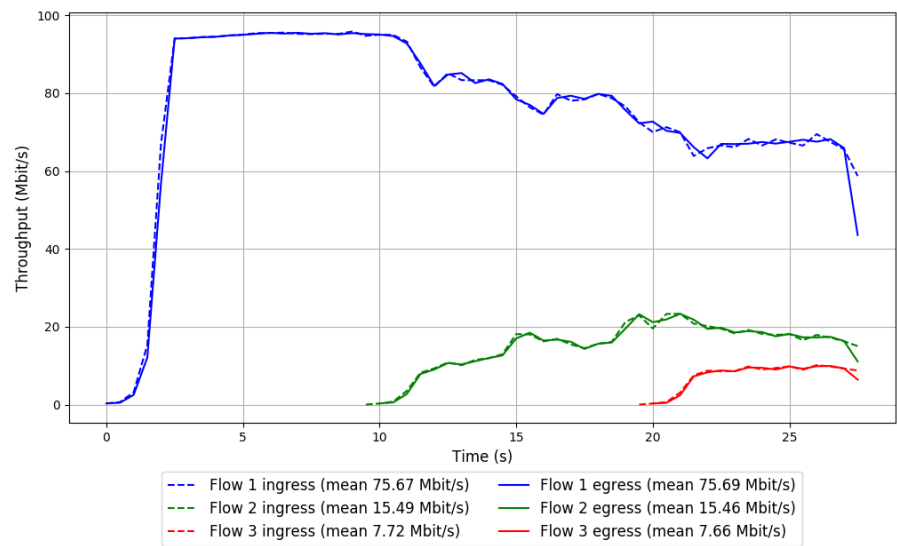
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 86.188 ms

Loss rate: 3.15%

Run 3: Report of Copa — Data Link

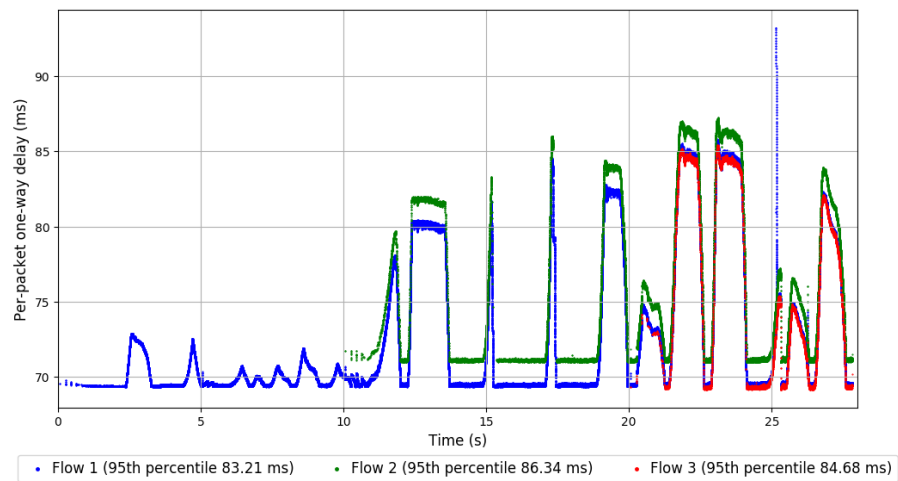
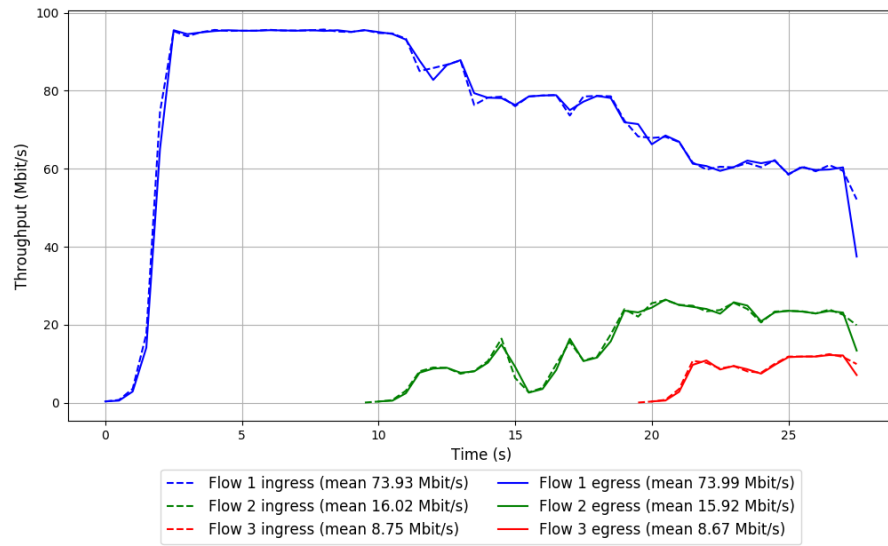


Run 4: Statistics of Copa

Start at: 2018-01-26 11:52:10
End at: 2018-01-26 11:52:40
Local clock offset: -0.316 ms
Remote clock offset: 8.071 ms

```
# Below is generated by plot.py at 2018-01-26 17:54:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 84.446 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 83.213 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 86.338 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 84.676 ms
Loss rate: 3.18%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 12:13:16

End at: 2018-01-26 12:13:46

Local clock offset: -0.315 ms

Remote clock offset: 1.959 ms

Below is generated by plot.py at 2018-01-26 17:54:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 86.697 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 85.773 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 9.53 Mbit/s

95th percentile per-packet one-way delay: 85.762 ms

Loss rate: 1.44%

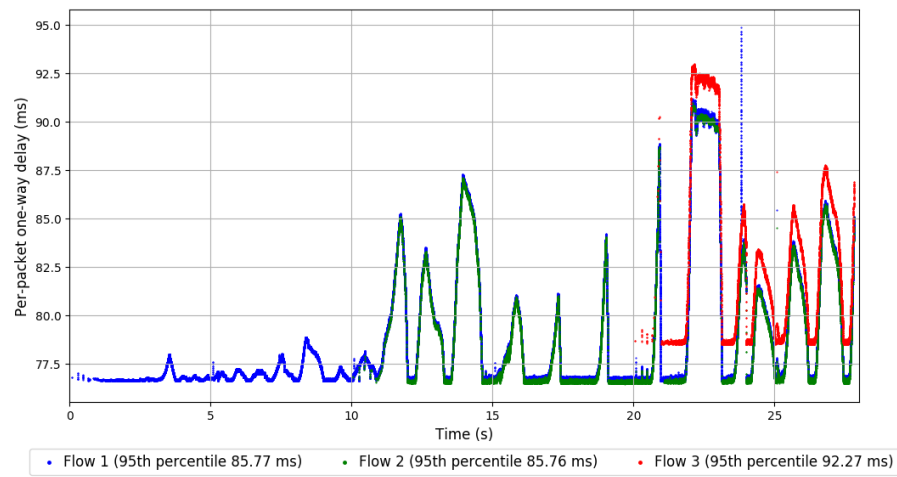
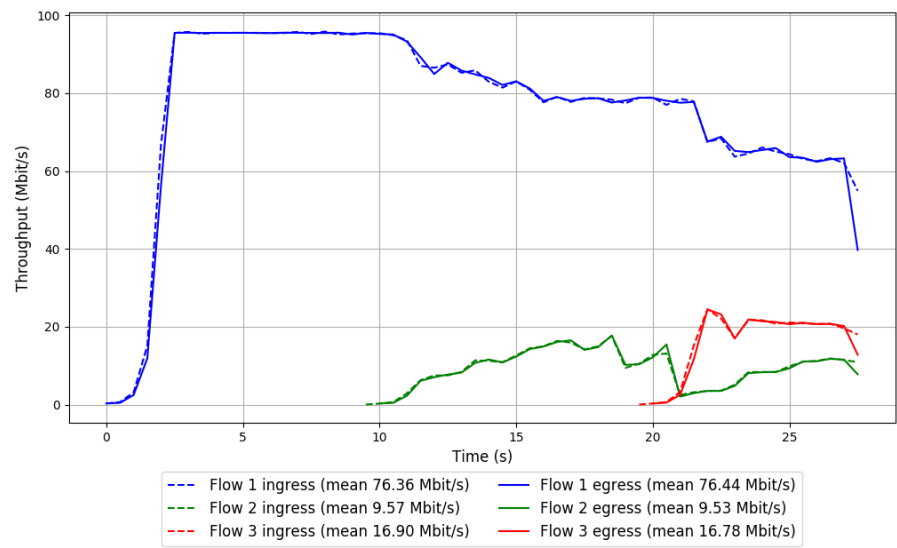
-- Flow 3:

Average throughput: 16.78 Mbit/s

95th percentile per-packet one-way delay: 92.269 ms

Loss rate: 3.01%

Run 5: Report of Copa — Data Link

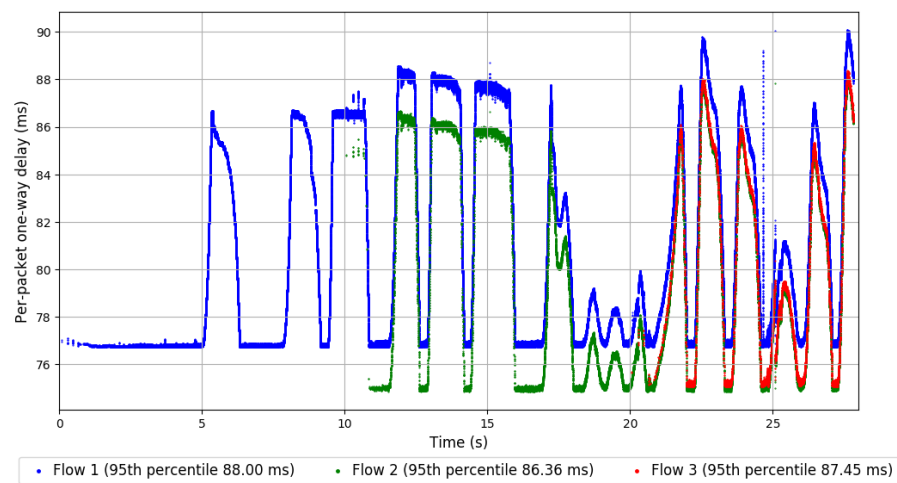
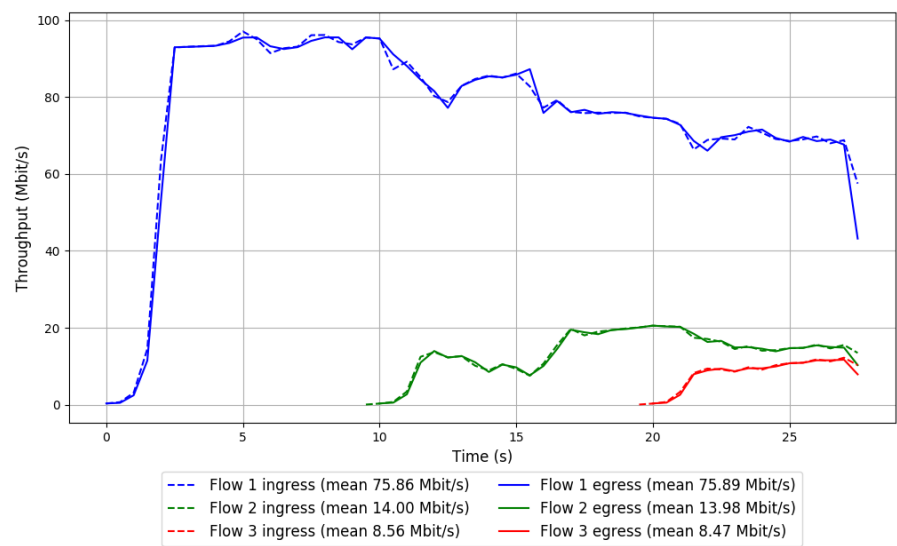


Run 6: Statistics of Copa

Start at: 2018-01-26 12:34:35
End at: 2018-01-26 12:35:05
Local clock offset: -0.225 ms
Remote clock offset: 1.888 ms

```
# Below is generated by plot.py at 2018-01-26 17:54:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.20 Mbit/s
95th percentile per-packet one-way delay: 87.947 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 75.89 Mbit/s
95th percentile per-packet one-way delay: 88.002 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 86.358 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 87.450 ms
Loss rate: 3.36%
```


Run 6: Report of Copa — Data Link

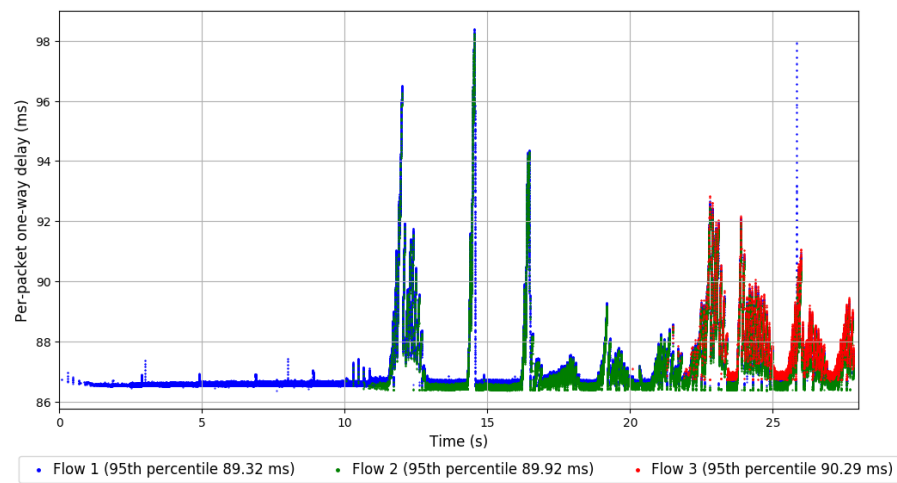
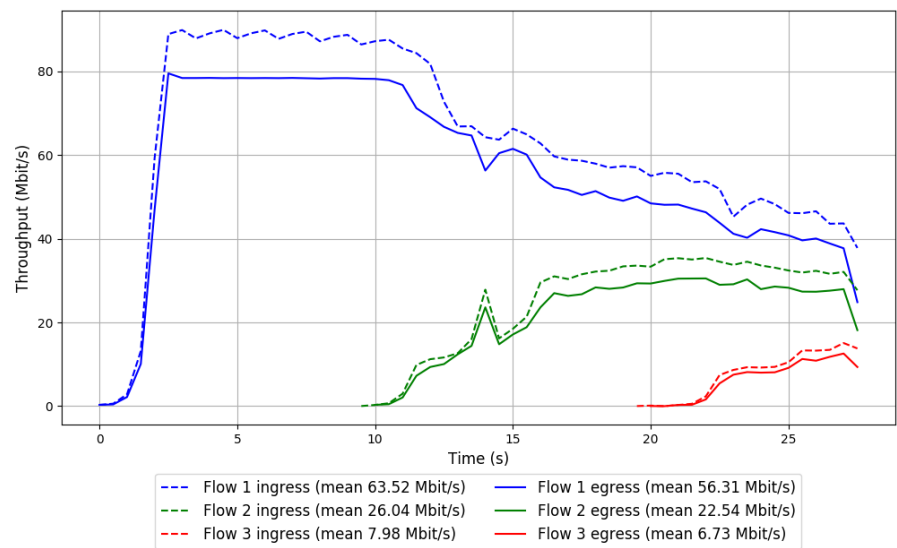


Run 7: Statistics of Copa

Start at: 2018-01-26 12:55:59
End at: 2018-01-26 12:56:29
Local clock offset: -0.223 ms
Remote clock offset: -7.581 ms

Below is generated by plot.py at 2018-01-26 17:54:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.63 Mbit/s
95th percentile per-packet one-way delay: 89.494 ms
Loss rate: 12.59%
-- Flow 1:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 89.319 ms
Loss rate: 11.94%
-- Flow 2:
Average throughput: 22.54 Mbit/s
95th percentile per-packet one-way delay: 89.919 ms
Loss rate: 14.34%
-- Flow 3:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 90.294 ms
Loss rate: 17.61%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 13:17:32

End at: 2018-01-26 13:18:02

Local clock offset: -0.228 ms

Remote clock offset: 8.665 ms

Below is generated by plot.py at 2018-01-26 17:54:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.48 Mbit/s

95th percentile per-packet one-way delay: 81.888 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 69.87 Mbit/s

95th percentile per-packet one-way delay: 80.447 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 84.219 ms

Loss rate: 1.16%

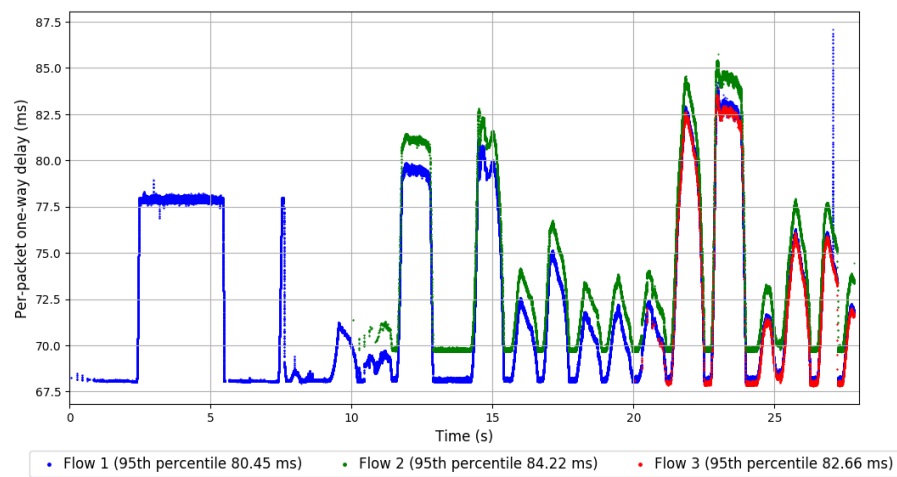
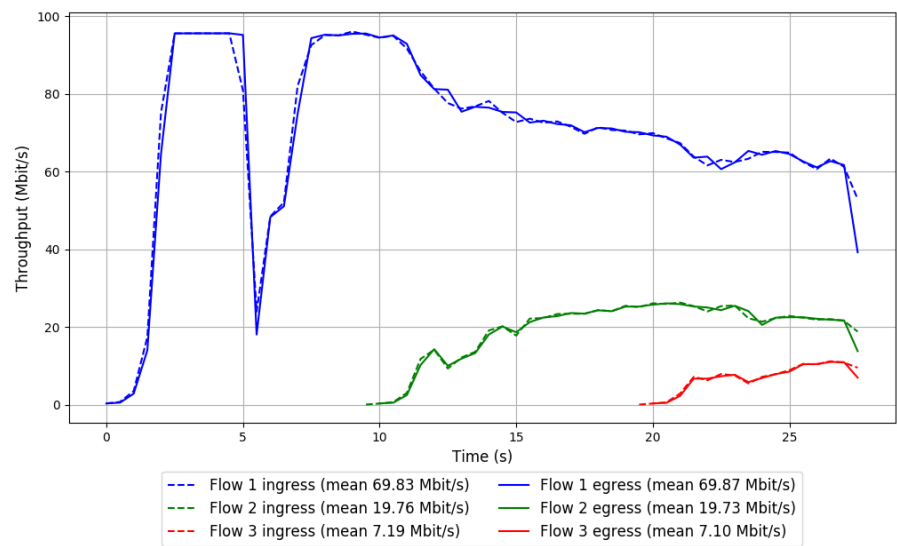
-- Flow 3:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 82.663 ms

Loss rate: 3.58%

Run 8: Report of Copa — Data Link

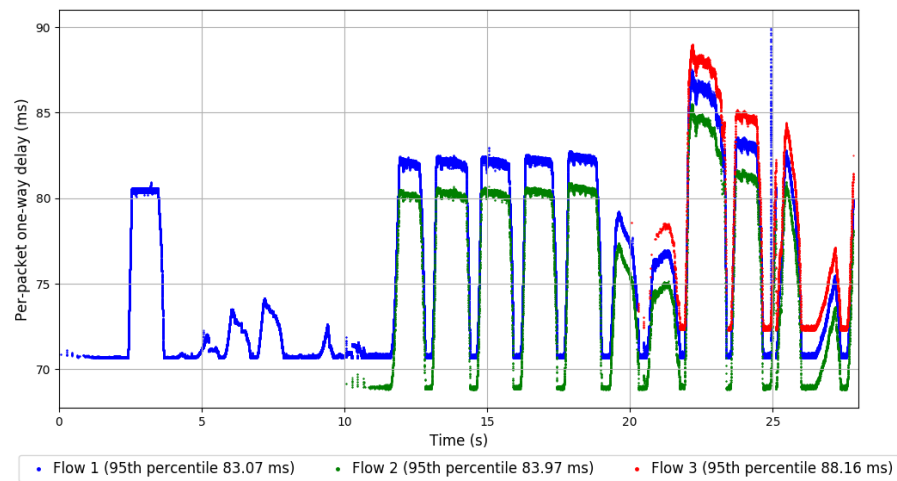
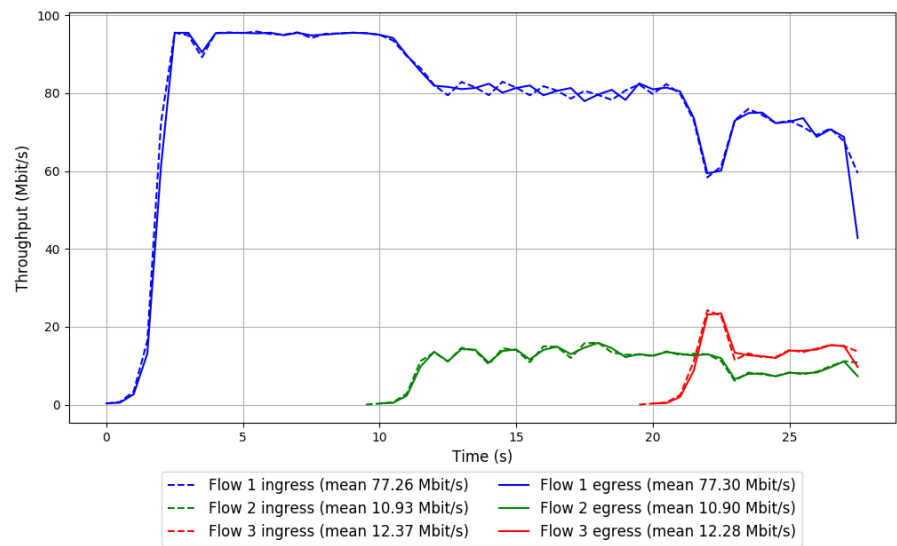


Run 9: Statistics of Copa

Start at: 2018-01-26 13:39:00
End at: 2018-01-26 13:39:30
Local clock offset: -0.215 ms
Remote clock offset: 6.968 ms

Below is generated by plot.py at 2018-01-26 17:56:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.70 Mbit/s
95th percentile per-packet one-way delay: 83.682 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 77.30 Mbit/s
95th percentile per-packet one-way delay: 83.069 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 83.974 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 88.160 ms
Loss rate: 3.17%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 14:00:30

End at: 2018-01-26 14:01:00

Local clock offset: -0.133 ms

Remote clock offset: 1.647 ms

Below is generated by plot.py at 2018-01-26 17:56:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.43 Mbit/s

95th percentile per-packet one-way delay: 87.804 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 87.673 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 21.26 Mbit/s

95th percentile per-packet one-way delay: 88.745 ms

Loss rate: 1.33%

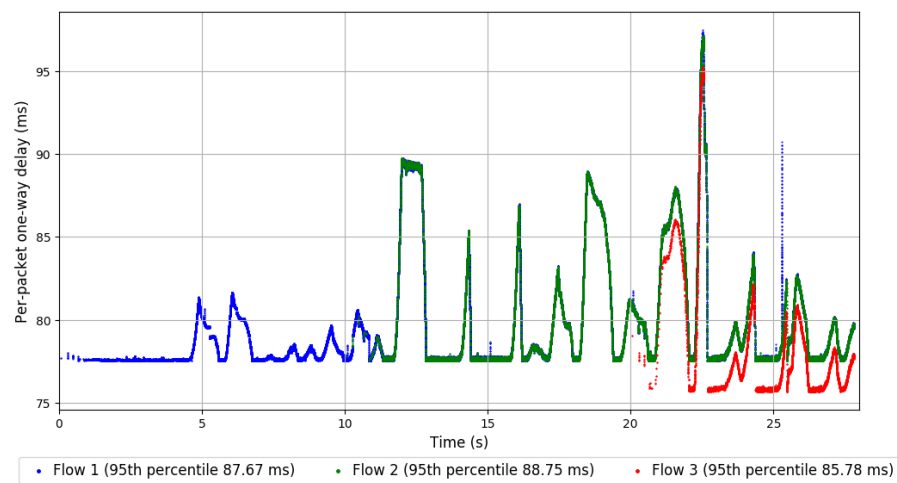
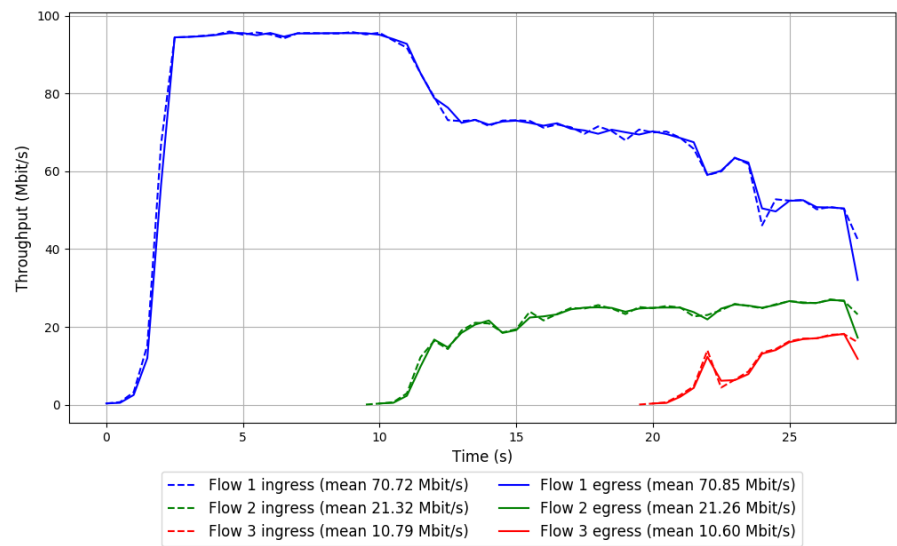
-- Flow 3:

Average throughput: 10.60 Mbit/s

95th percentile per-packet one-way delay: 85.784 ms

Loss rate: 4.11%

Run 10: Report of Copa — Data Link

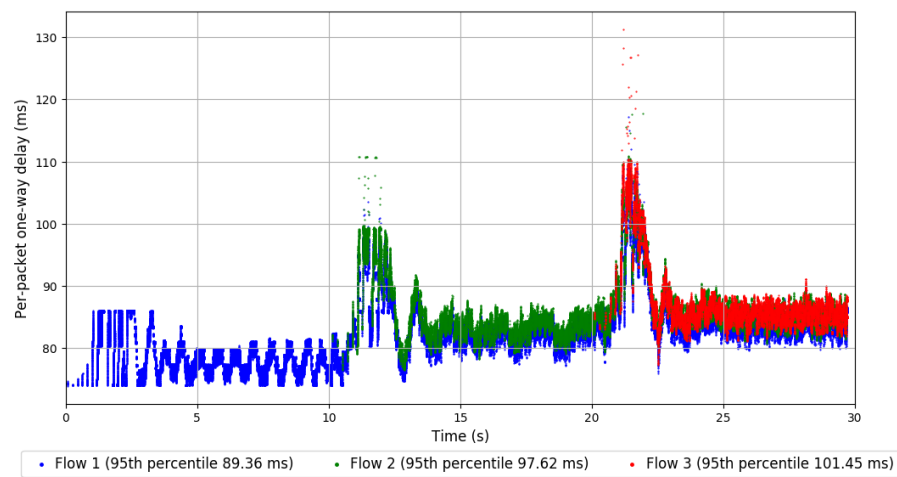
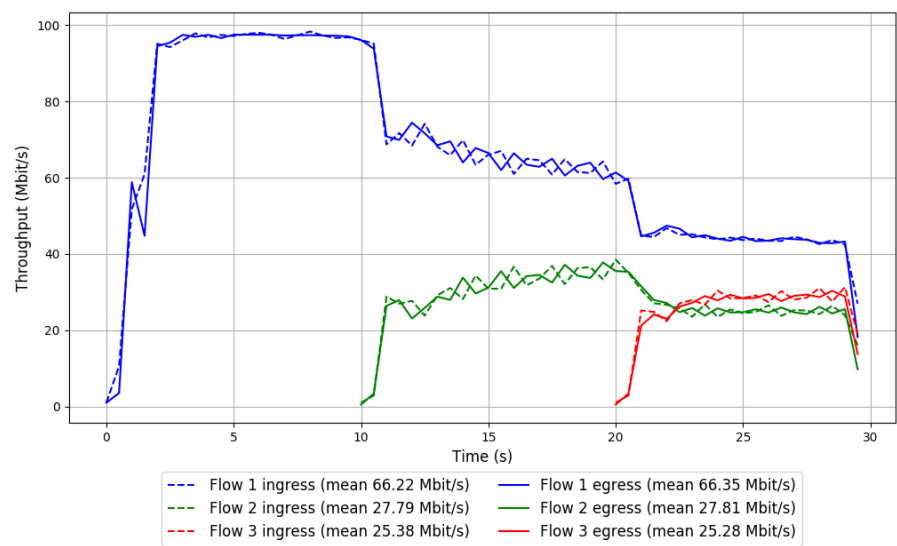


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 10:36:27
End at: 2018-01-26 10:36:57
Local clock offset: -0.142 ms
Remote clock offset: 3.302 ms

# Below is generated by plot.py at 2018-01-26 17:56:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 93.090 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 66.35 Mbit/s
95th percentile per-packet one-way delay: 89.355 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 27.81 Mbit/s
95th percentile per-packet one-way delay: 97.618 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 25.28 Mbit/s
95th percentile per-packet one-way delay: 101.446 ms
Loss rate: 2.34%
```

Run 1: Report of Indigo-2-256 — Data Link

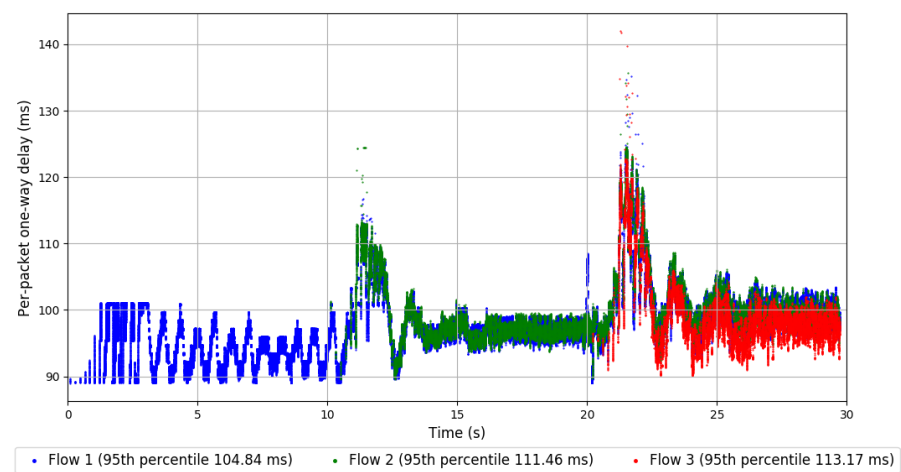
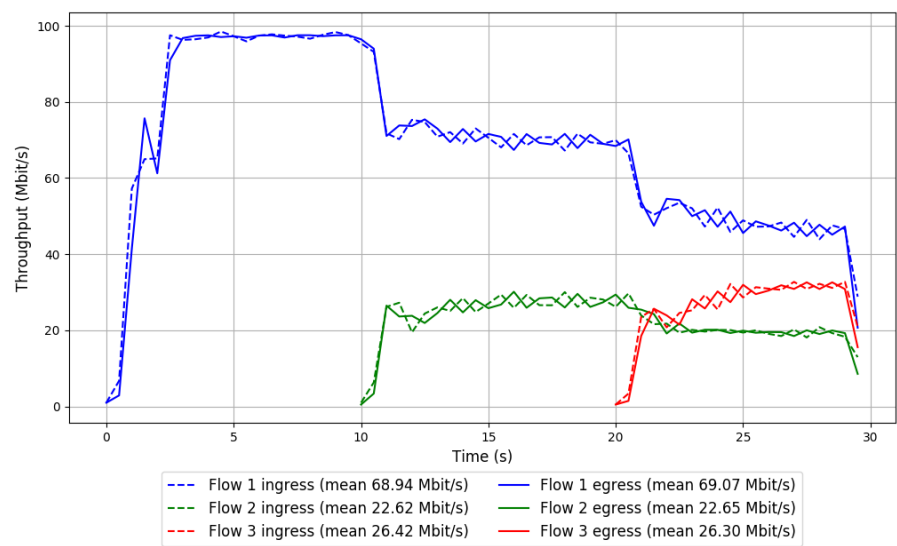


Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 10:57:44
End at: 2018-01-26 10:58:14
Local clock offset: -0.15 ms
Remote clock offset: -11.304 ms

Below is generated by plot.py at 2018-01-26 17:56:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 106.948 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 69.07 Mbit/s
95th percentile per-packet one-way delay: 104.838 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 111.457 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 113.167 ms
Loss rate: 2.46%

Run 2: Report of Indigo-2-256 — Data Link

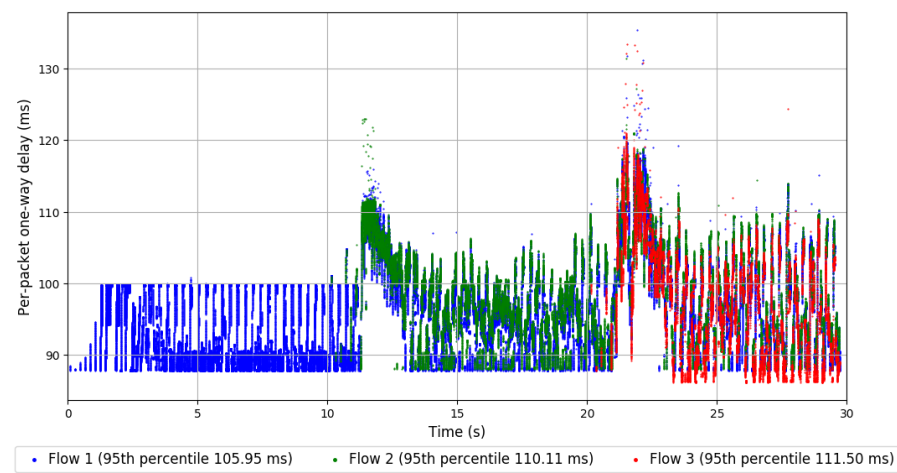
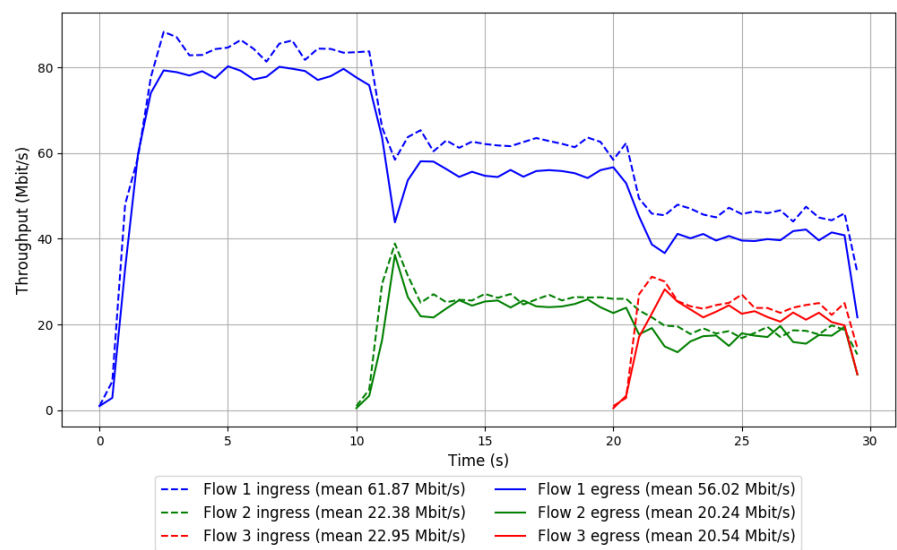


Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 11:18:56
End at: 2018-01-26 11:19:26
Local clock offset: -0.157 ms
Remote clock offset: -7.944 ms

Below is generated by plot.py at 2018-01-26 17:56:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.01 Mbit/s
95th percentile per-packet one-way delay: 107.499 ms
Loss rate: 10.29%
-- Flow 1:
Average throughput: 56.02 Mbit/s
95th percentile per-packet one-way delay: 105.952 ms
Loss rate: 10.02%
-- Flow 2:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 110.108 ms
Loss rate: 10.44%
-- Flow 3:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 111.495 ms
Loss rate: 12.21%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 11:40:15

End at: 2018-01-26 11:40:45

Local clock offset: -0.272 ms

Remote clock offset: 7.04 ms

Below is generated by plot.py at 2018-01-26 17:56:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.13 Mbit/s

95th percentile per-packet one-way delay: 88.830 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 69.92 Mbit/s

95th percentile per-packet one-way delay: 86.244 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 91.691 ms

Loss rate: 0.87%

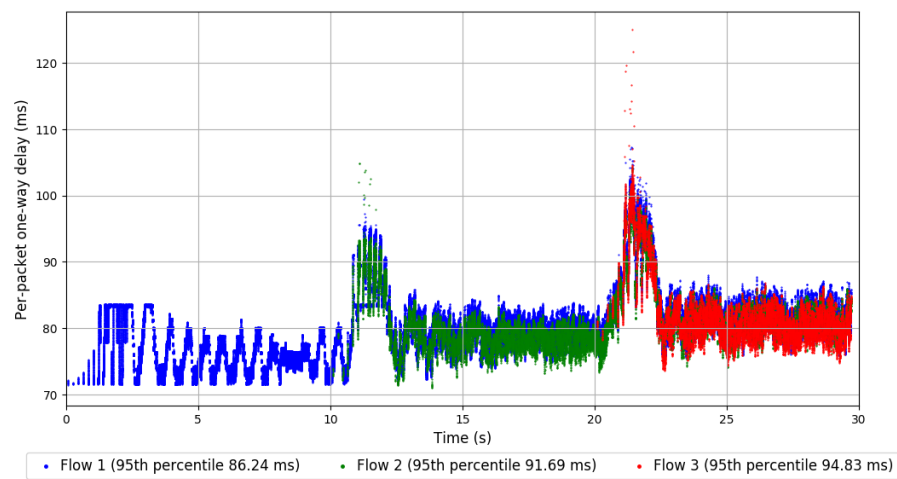
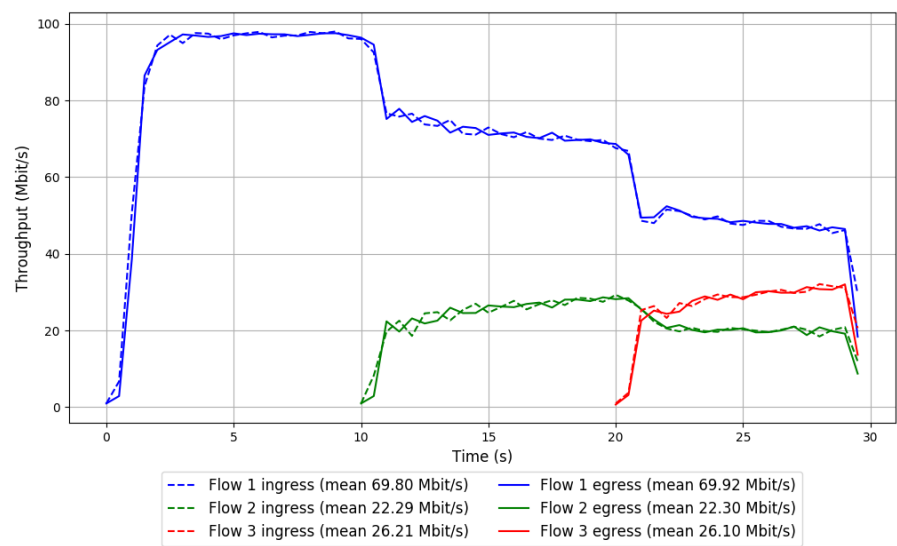
-- Flow 3:

Average throughput: 26.10 Mbit/s

95th percentile per-packet one-way delay: 94.829 ms

Loss rate: 2.36%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 12:01:26

End at: 2018-01-26 12:01:56

Local clock offset: -0.443 ms

Remote clock offset: 3.079 ms

Below is generated by plot.py at 2018-01-26 17:56:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.21 Mbit/s

95th percentile per-packet one-way delay: 91.533 ms

Loss rate: 8.11%

-- Flow 1:

Average throughput: 58.50 Mbit/s

95th percentile per-packet one-way delay: 89.552 ms

Loss rate: 8.03%

-- Flow 2:

Average throughput: 21.72 Mbit/s

95th percentile per-packet one-way delay: 92.965 ms

Loss rate: 10.24%

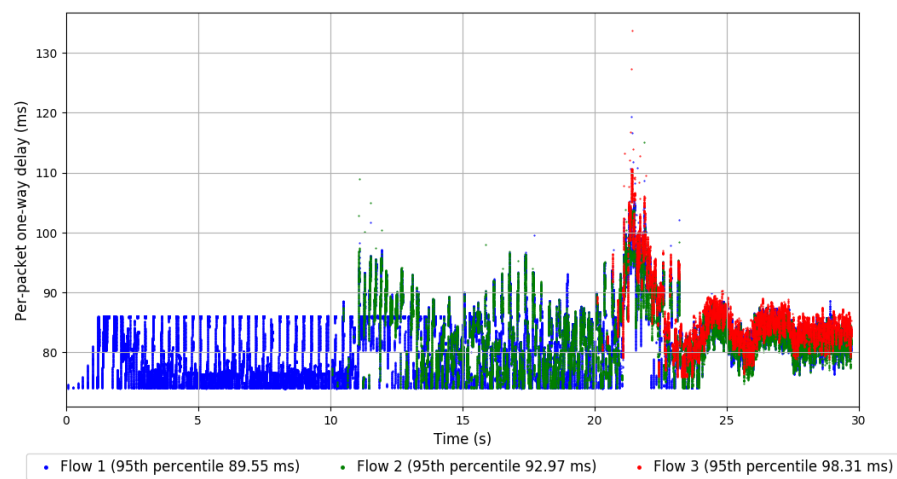
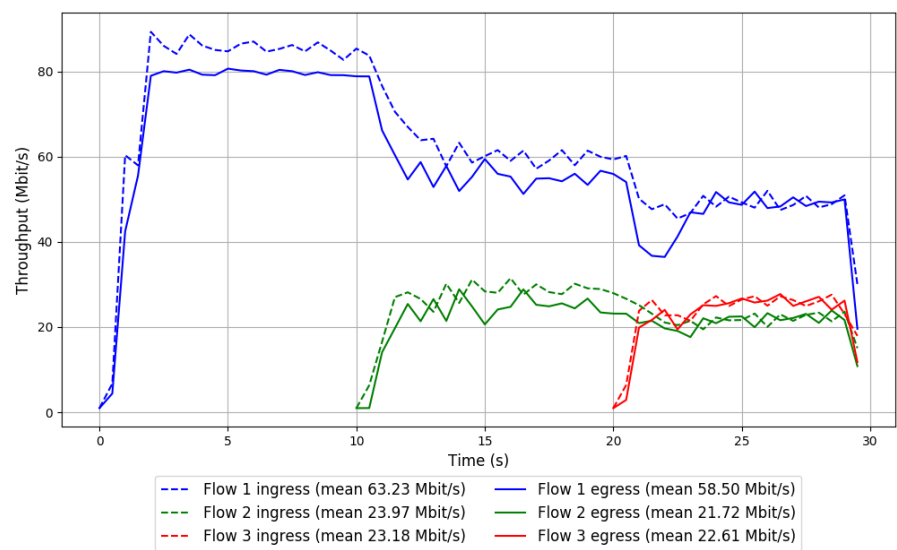
-- Flow 3:

Average throughput: 22.61 Mbit/s

95th percentile per-packet one-way delay: 98.306 ms

Loss rate: 4.35%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 12:22:42

End at: 2018-01-26 12:23:12

Local clock offset: -0.289 ms

Remote clock offset: 2.925 ms

Below is generated by plot.py at 2018-01-26 17:56:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 92.487 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 67.46 Mbit/s

95th percentile per-packet one-way delay: 91.190 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 94.853 ms

Loss rate: 0.84%

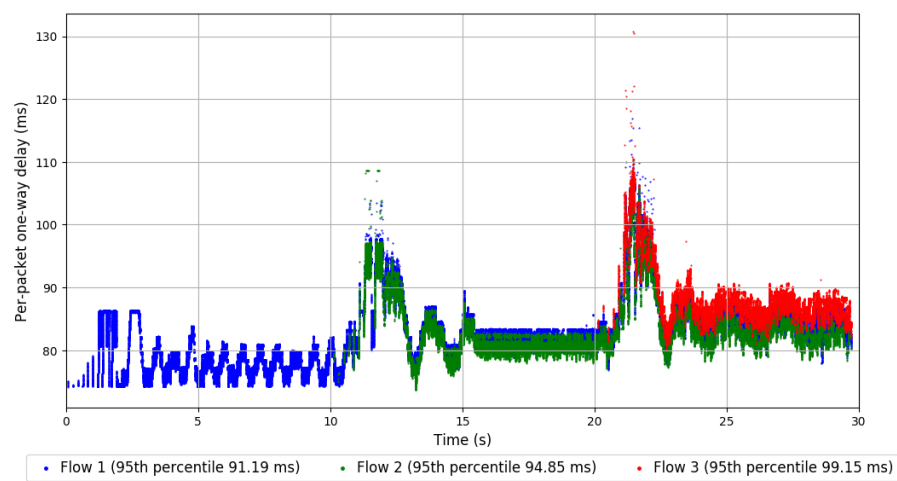
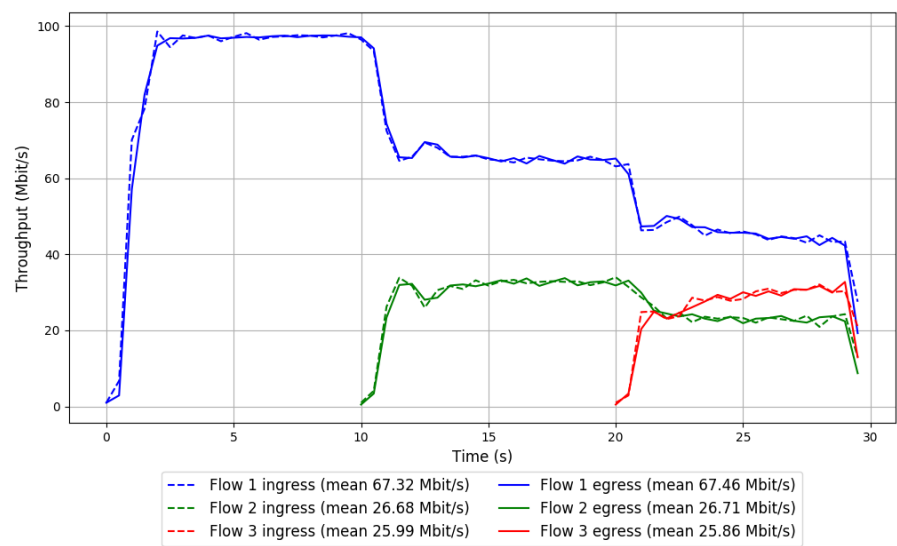
-- Flow 3:

Average throughput: 25.86 Mbit/s

95th percentile per-packet one-way delay: 99.154 ms

Loss rate: 2.36%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 12:44:02

End at: 2018-01-26 12:44:32

Local clock offset: -0.205 ms

Remote clock offset: 7.776 ms

Below is generated by plot.py at 2018-01-26 17:57:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 87.528 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 69.25 Mbit/s

95th percentile per-packet one-way delay: 85.451 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 21.94 Mbit/s

95th percentile per-packet one-way delay: 92.102 ms

Loss rate: 0.79%

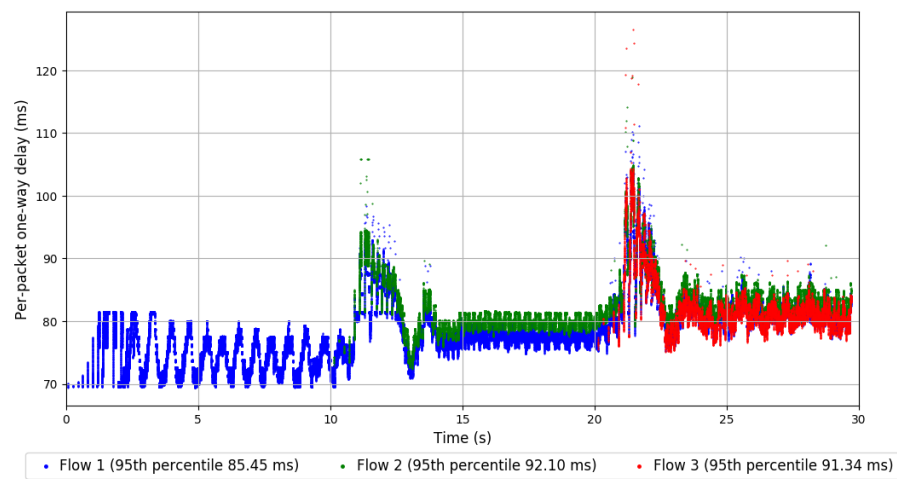
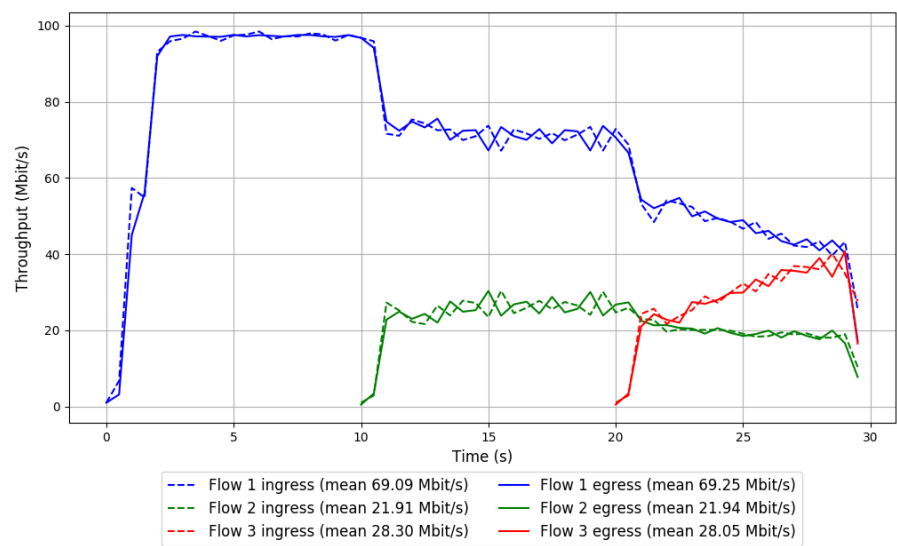
-- Flow 3:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 91.345 ms

Loss rate: 2.78%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 13:05:38

End at: 2018-01-26 13:06:08

Local clock offset: -0.213 ms

Remote clock offset: 2.59 ms

Below is generated by plot.py at 2018-01-26 17:57:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 94.783 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 91.866 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 97.068 ms

Loss rate: 0.87%

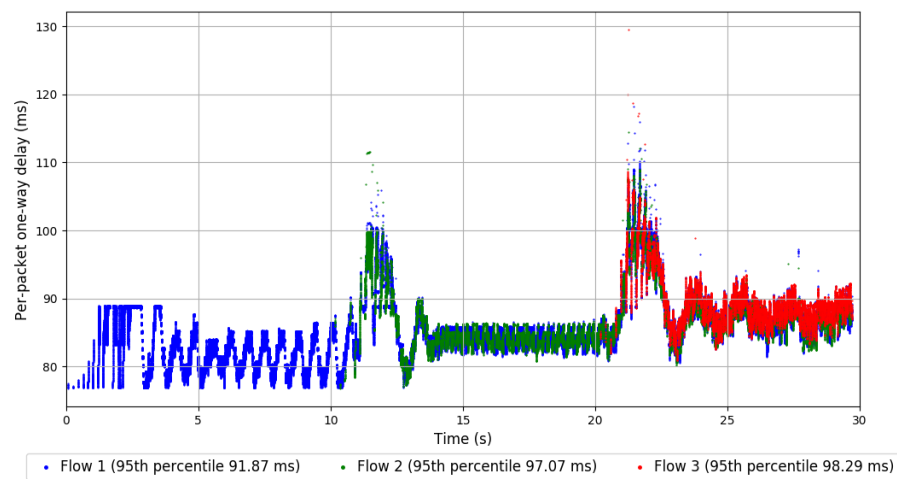
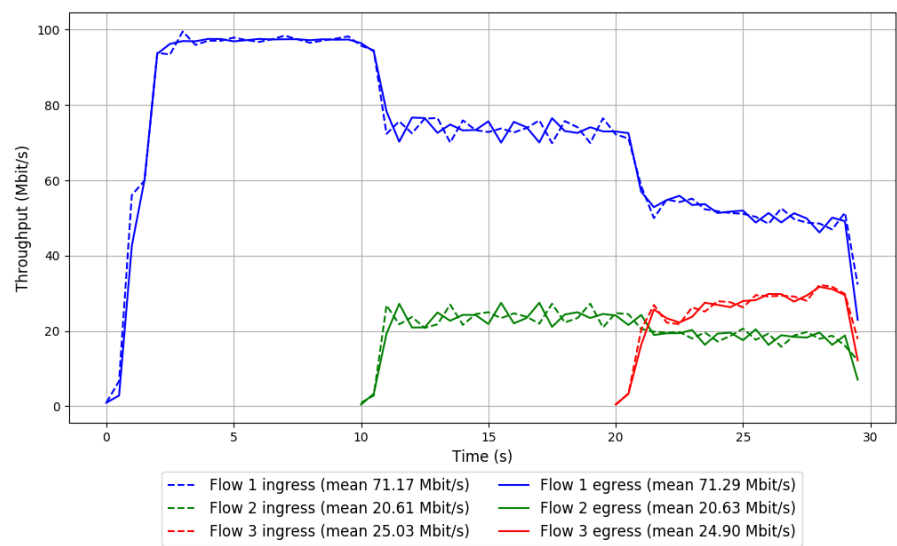
-- Flow 3:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 98.292 ms

Loss rate: 2.42%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 13:27:07

End at: 2018-01-26 13:27:37

Local clock offset: -0.245 ms

Remote clock offset: 2.437 ms

Below is generated by plot.py at 2018-01-26 17:57:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 95.044 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 93.585 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 27.21 Mbit/s

95th percentile per-packet one-way delay: 98.377 ms

Loss rate: 0.85%

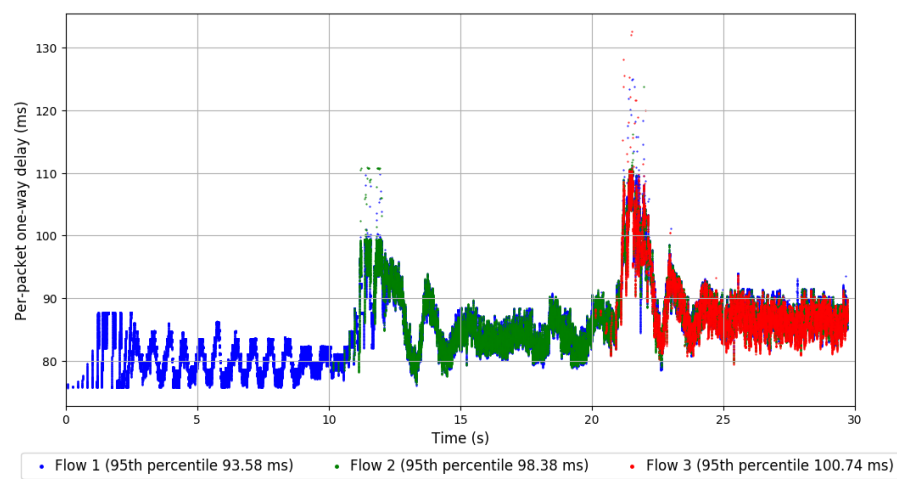
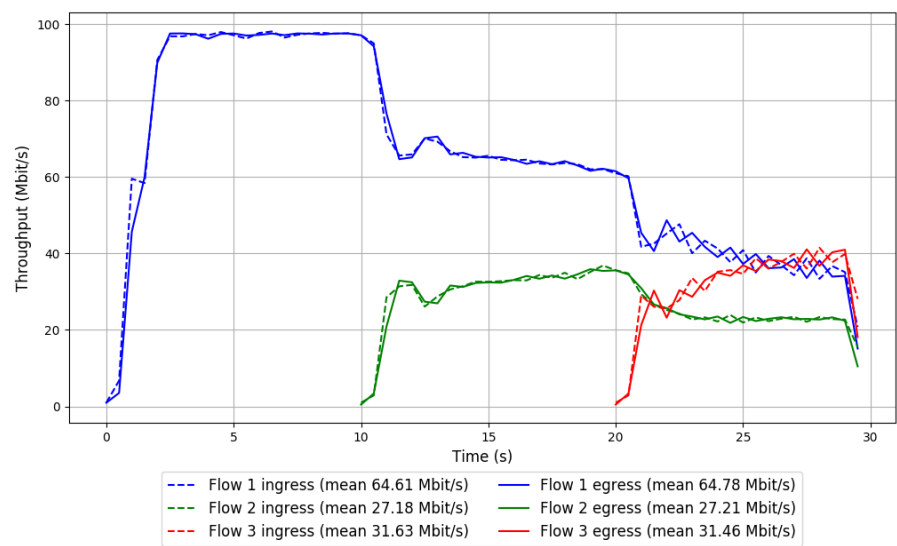
-- Flow 3:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 100.740 ms

Loss rate: 2.50%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 13:48:34

End at: 2018-01-26 13:49:04

Local clock offset: -0.24 ms

Remote clock offset: 6.786 ms

Below is generated by plot.py at 2018-01-26 17:57:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 87.955 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 83.665 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 92.485 ms

Loss rate: 0.98%

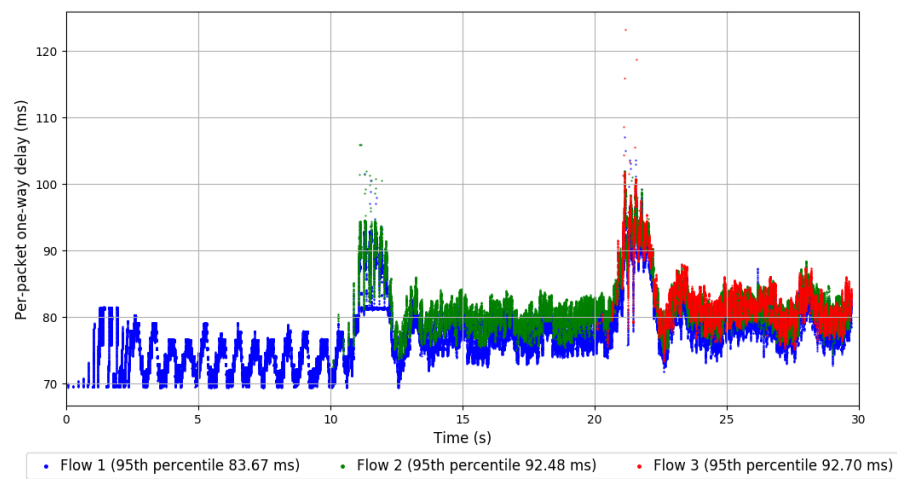
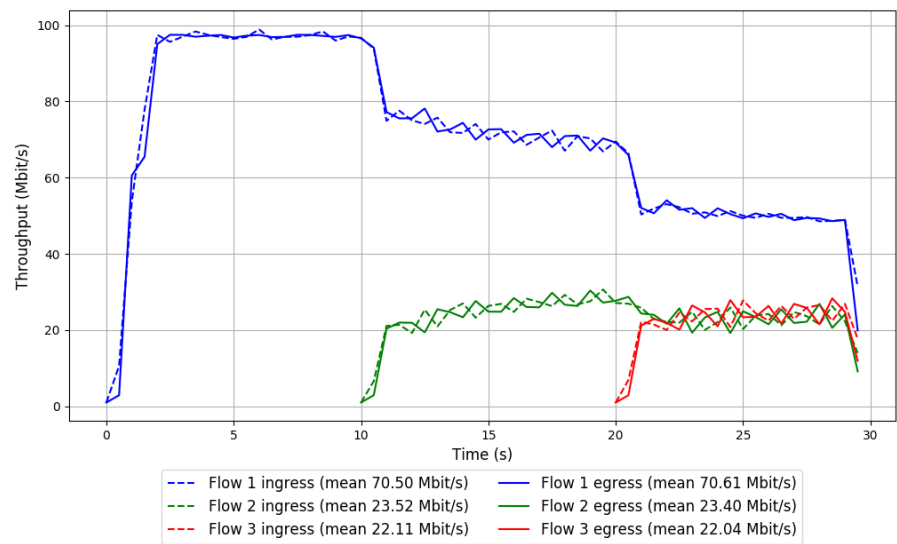
-- Flow 3:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 92.703 ms

Loss rate: 2.22%

Run 10: Report of Indigo-2-256 — Data Link

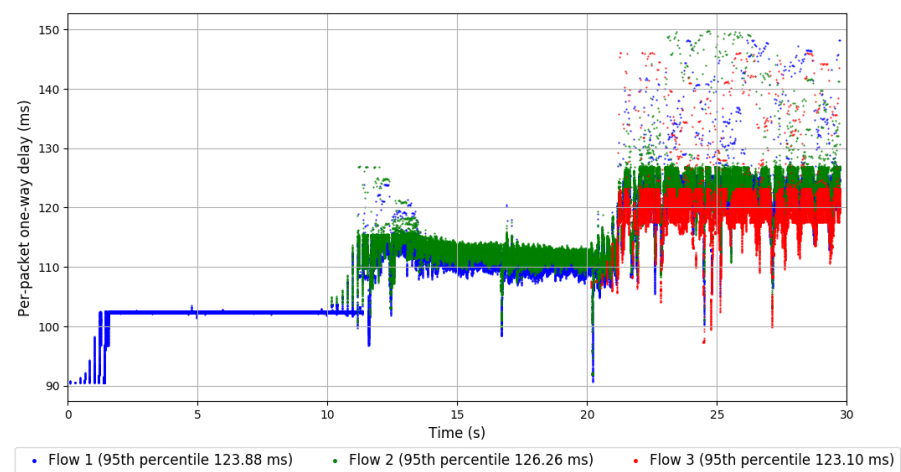
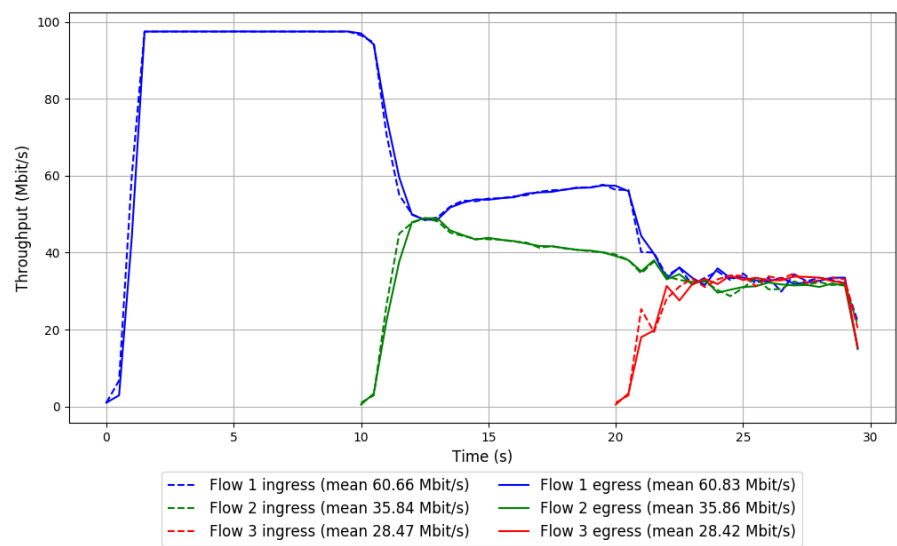


Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 10:53:39
End at: 2018-01-26 10:54:09
Local clock offset: -0.137 ms
Remote clock offset: -12.311 ms

Below is generated by plot.py at 2018-01-26 17:57:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 124.814 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 123.879 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 35.86 Mbit/s
95th percentile per-packet one-way delay: 126.261 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 123.101 ms
Loss rate: 2.41%

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

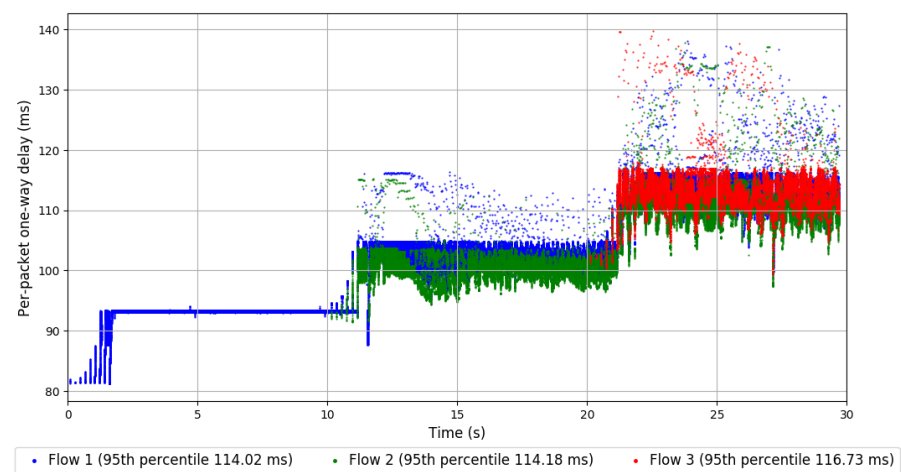
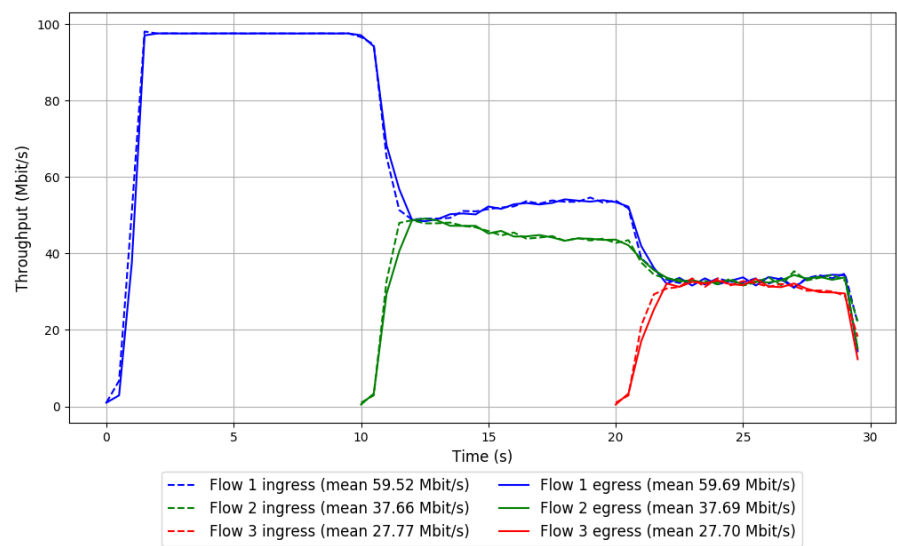


Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 11:14:50
End at: 2018-01-26 11:15:20
Local clock offset: -0.149 ms
Remote clock offset: -3.361 ms

Below is generated by plot.py at 2018-01-26 17:57:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 114.793 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 114.016 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 114.177 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 27.70 Mbit/s
95th percentile per-packet one-way delay: 116.732 ms
Loss rate: 2.27%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 11:36:08

End at: 2018-01-26 11:36:38

Local clock offset: -0.247 ms

Remote clock offset: 8.815 ms

Below is generated by plot.py at 2018-01-26 17:57:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 103.301 ms

Loss rate: 18.43%

-- Flow 1:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 103.410 ms

Loss rate: 19.93%

-- Flow 2:

Average throughput: 28.76 Mbit/s

95th percentile per-packet one-way delay: 101.941 ms

Loss rate: 14.93%

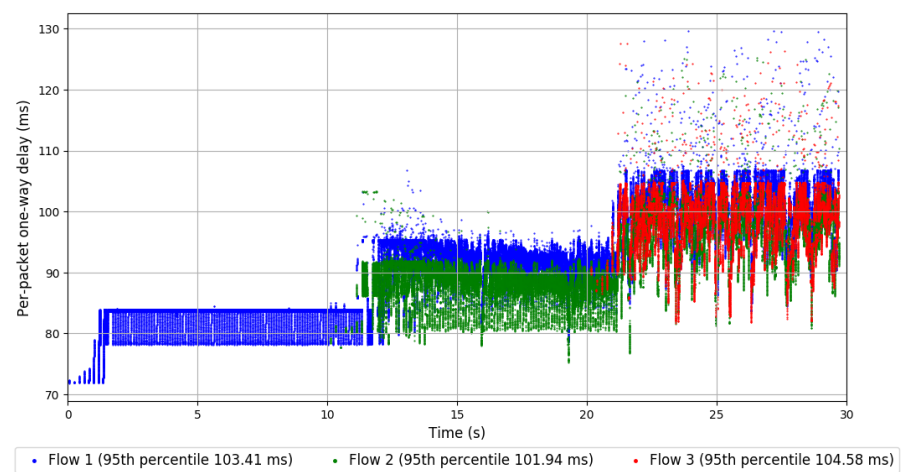
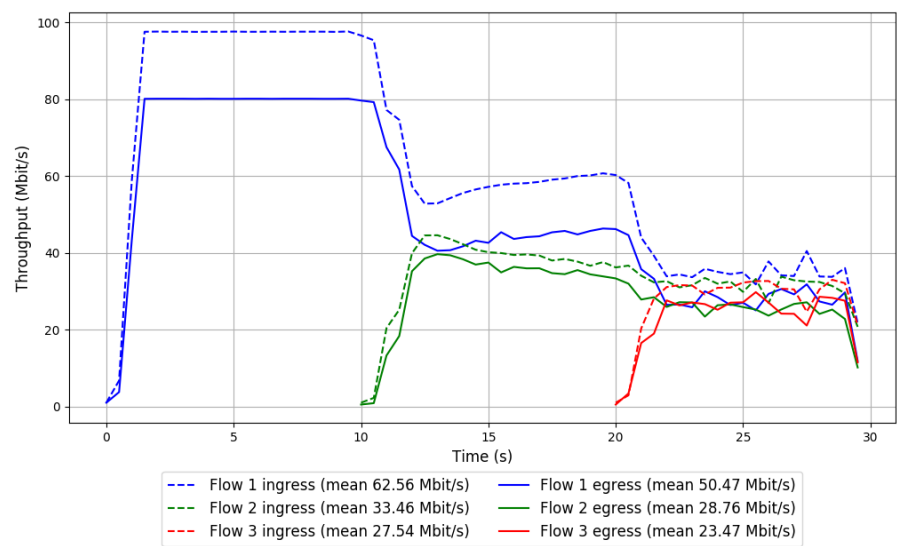
-- Flow 3:

Average throughput: 23.47 Mbit/s

95th percentile per-packet one-way delay: 104.584 ms

Loss rate: 16.60%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 11:57:22

End at: 2018-01-26 11:57:52

Local clock offset: -0.346 ms

Remote clock offset: 8.956 ms

Below is generated by plot.py at 2018-01-26 17:57:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.20 Mbit/s

95th percentile per-packet one-way delay: 102.952 ms

Loss rate: 18.10%

-- Flow 1:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 99.258 ms

Loss rate: 19.18%

-- Flow 2:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 104.752 ms

Loss rate: 15.56%

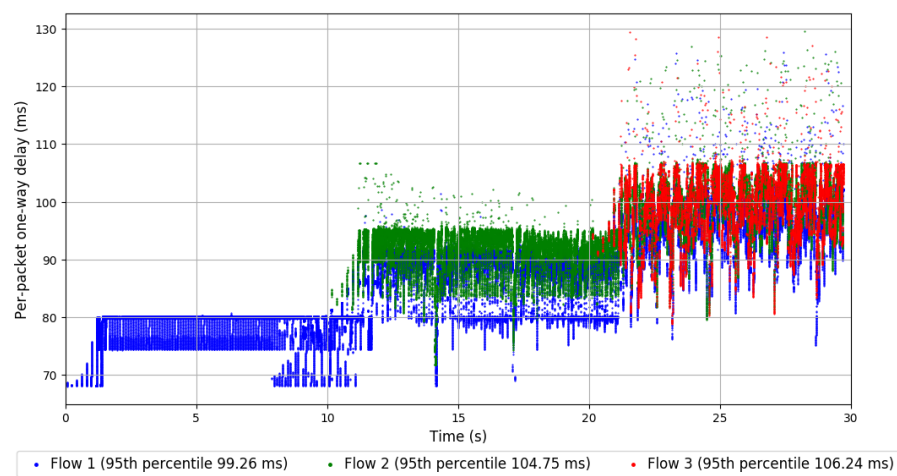
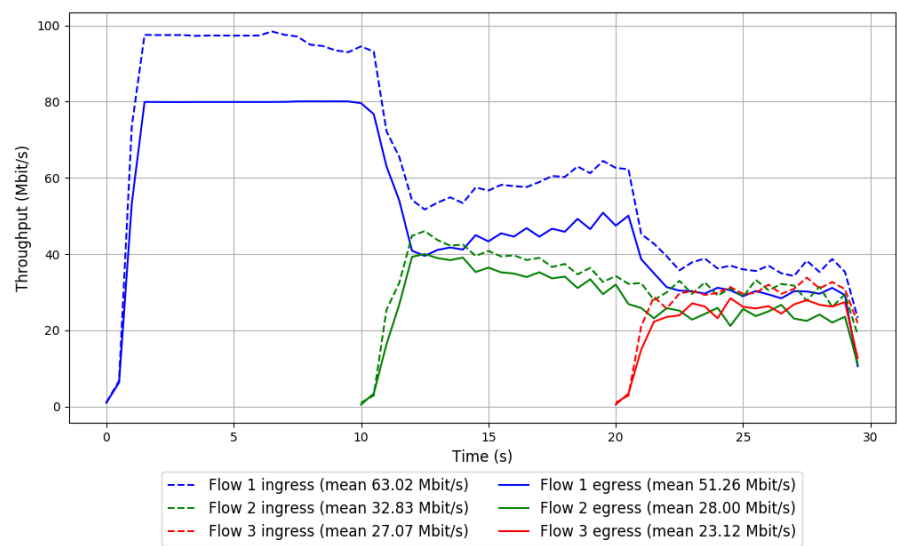
-- Flow 3:

Average throughput: 23.12 Mbit/s

95th percentile per-packet one-way delay: 106.237 ms

Loss rate: 16.59%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 12:18:37

End at: 2018-01-26 12:19:07

Local clock offset: -0.373 ms

Remote clock offset: 8.616 ms

Below is generated by plot.py at 2018-01-26 17:58:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 102.998 ms

Loss rate: 11.33%

-- Flow 1:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 103.100 ms

Loss rate: 13.16%

-- Flow 2:

Average throughput: 30.44 Mbit/s

95th percentile per-packet one-way delay: 102.539 ms

Loss rate: 9.75%

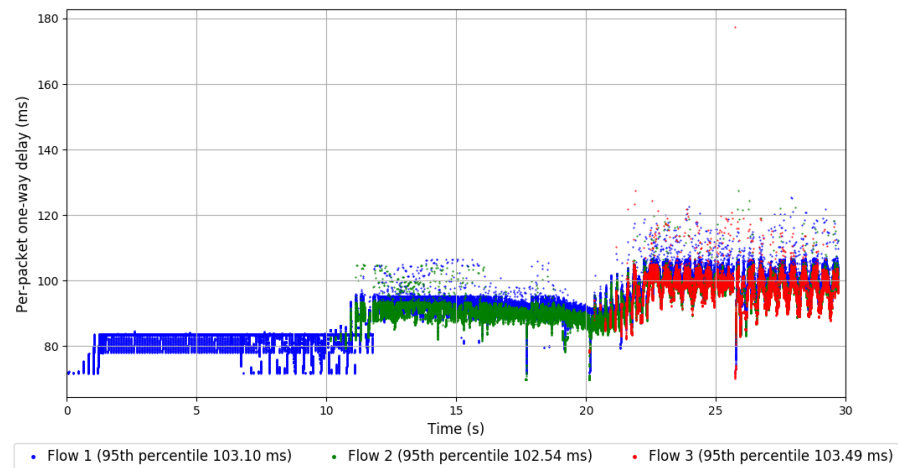
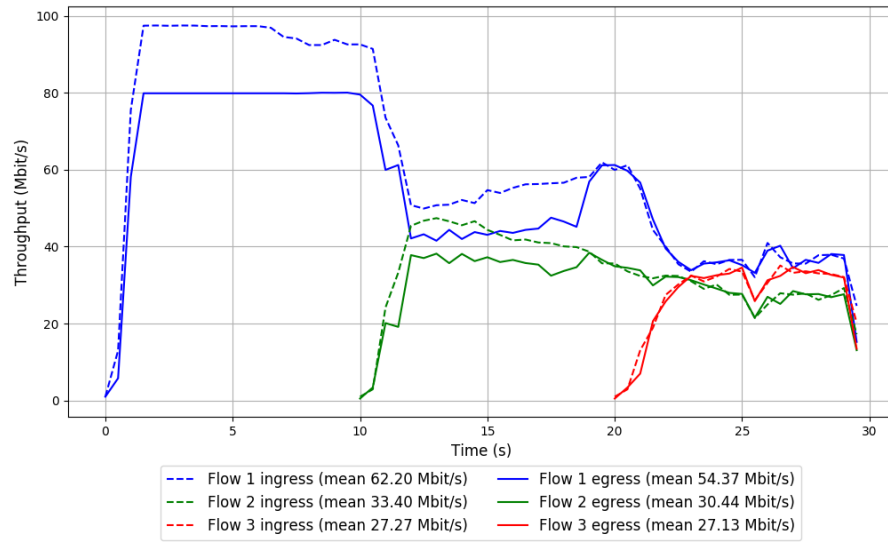
-- Flow 3:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 103.488 ms

Loss rate: 2.47%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 12:39:55

End at: 2018-01-26 12:40:25

Local clock offset: -0.282 ms

Remote clock offset: 7.667 ms

Below is generated by plot.py at 2018-01-26 17:58:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 103.936 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 60.70 Mbit/s

95th percentile per-packet one-way delay: 103.422 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 105.051 ms

Loss rate: 0.91%

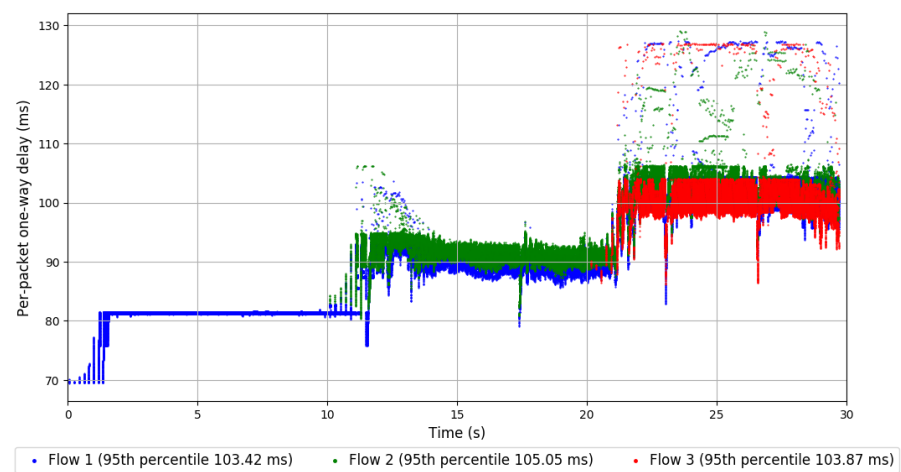
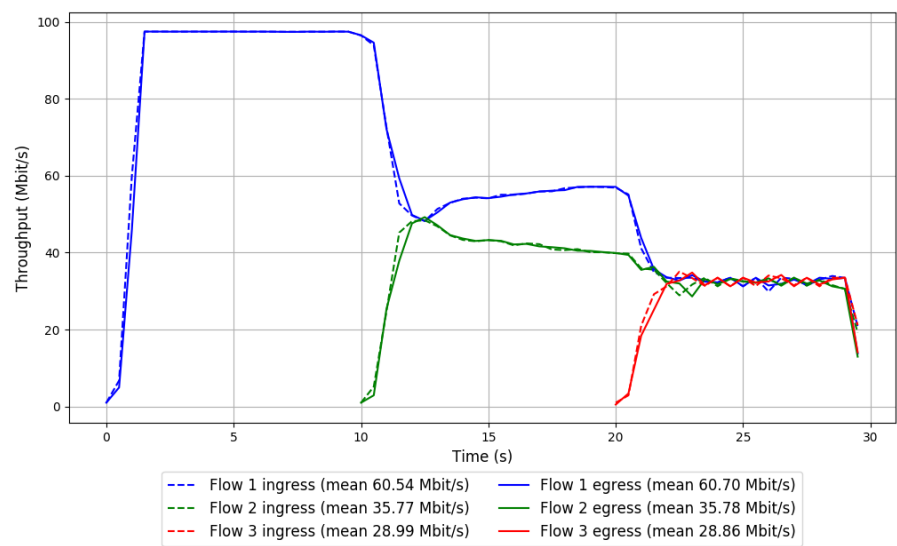
-- Flow 3:

Average throughput: 28.86 Mbit/s

95th percentile per-packet one-way delay: 103.870 ms

Loss rate: 2.43%

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

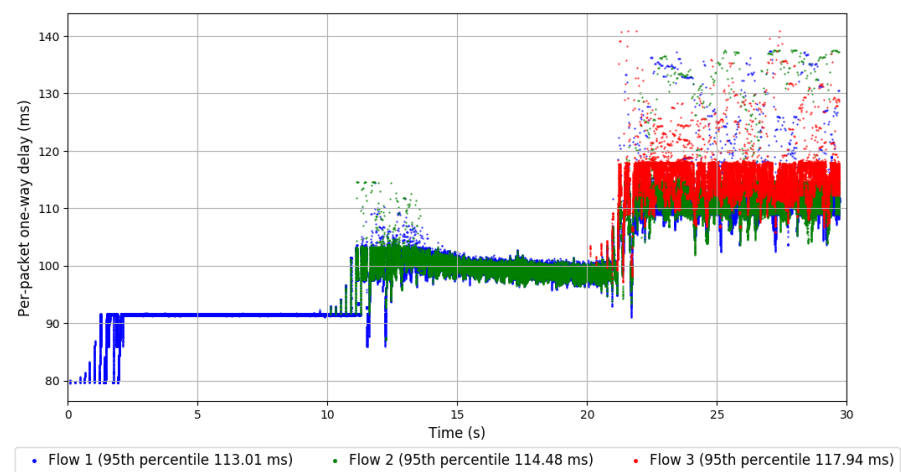
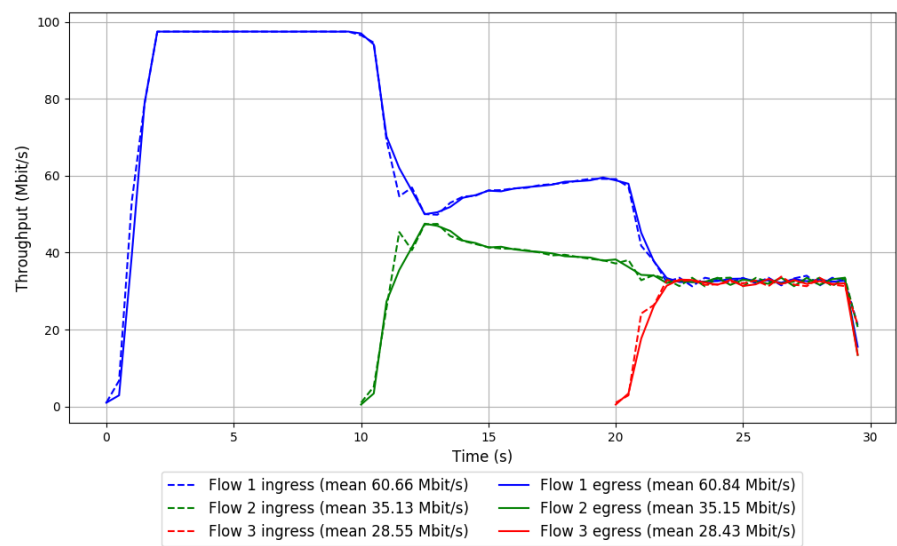


Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 13:01:30
End at: 2018-01-26 13:02:00
Local clock offset: -0.281 ms
Remote clock offset: -2.509 ms

Below is generated by plot.py at 2018-01-26 17:58:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 115.536 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 60.84 Mbit/s
95th percentile per-packet one-way delay: 113.008 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 114.478 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 28.43 Mbit/s
95th percentile per-packet one-way delay: 117.942 ms
Loss rate: 2.62%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 13:22:51

End at: 2018-01-26 13:23:21

Local clock offset: -0.238 ms

Remote clock offset: 2.585 ms

Below is generated by plot.py at 2018-01-26 17:58:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 100.667 ms

Loss rate: 18.30%

-- Flow 1:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 100.720 ms

Loss rate: 18.40%

-- Flow 2:

Average throughput: 34.10 Mbit/s

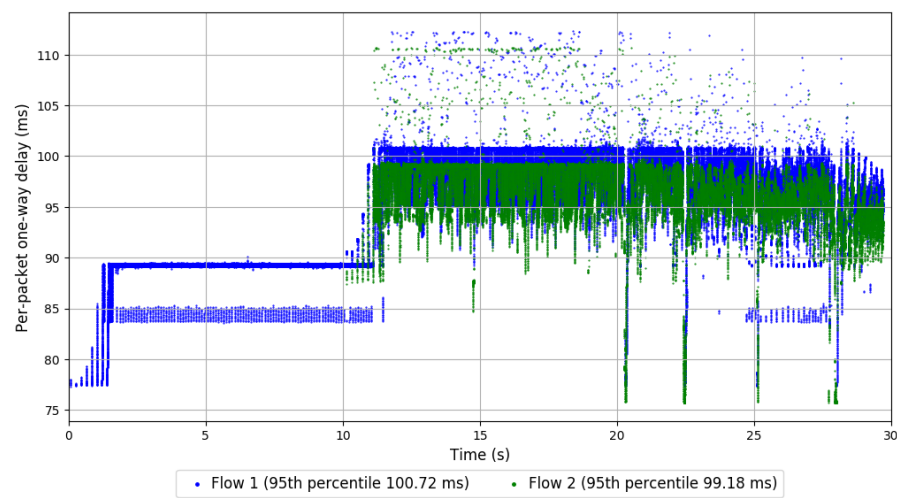
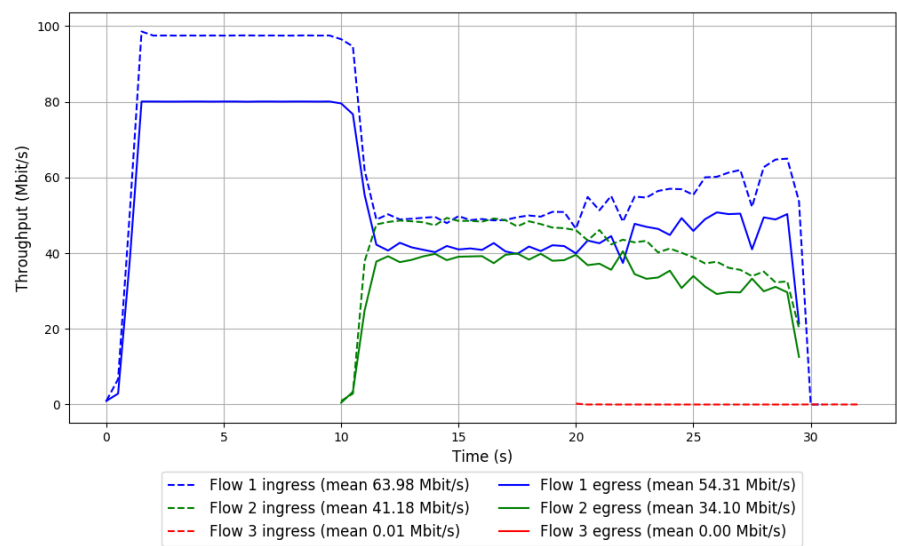
95th percentile per-packet one-way delay: 99.184 ms

Loss rate: 18.02%

-- Flow 3:

Average throughput: 0.00 Mbit/s

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 13:44:20

End at: 2018-01-26 13:44:50

Local clock offset: -0.237 ms

Remote clock offset: 1.926 ms

Below is generated by plot.py at 2018-01-26 17:58:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.49 Mbit/s

95th percentile per-packet one-way delay: 98.614 ms

Loss rate: 17.96%

-- Flow 1:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 98.919 ms

Loss rate: 17.21%

-- Flow 2:

Average throughput: 28.95 Mbit/s

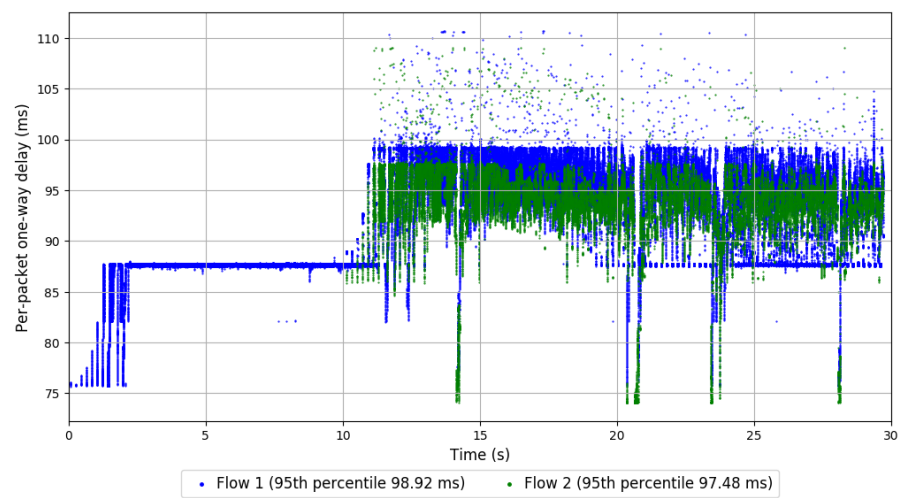
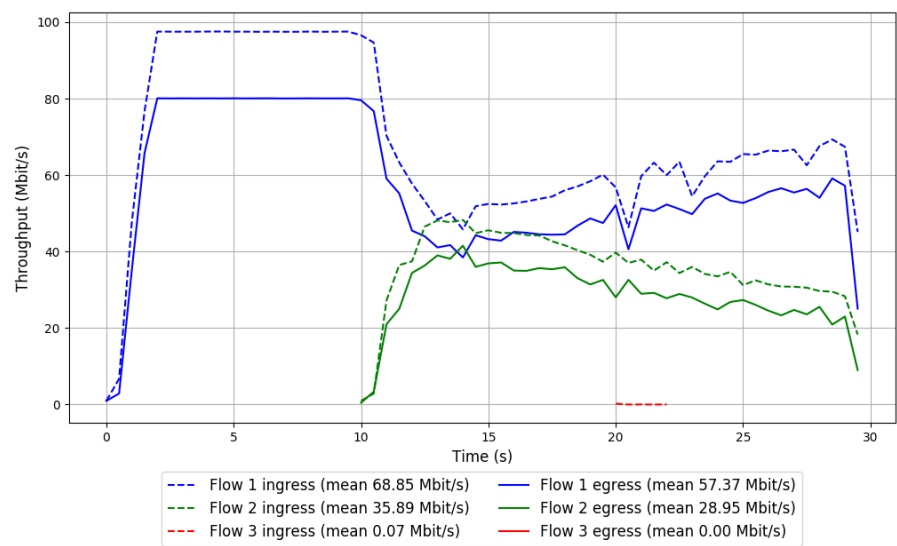
95th percentile per-packet one-way delay: 97.479 ms

Loss rate: 20.11%

-- Flow 3:

Average throughput: 0.00 Mbit/s

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

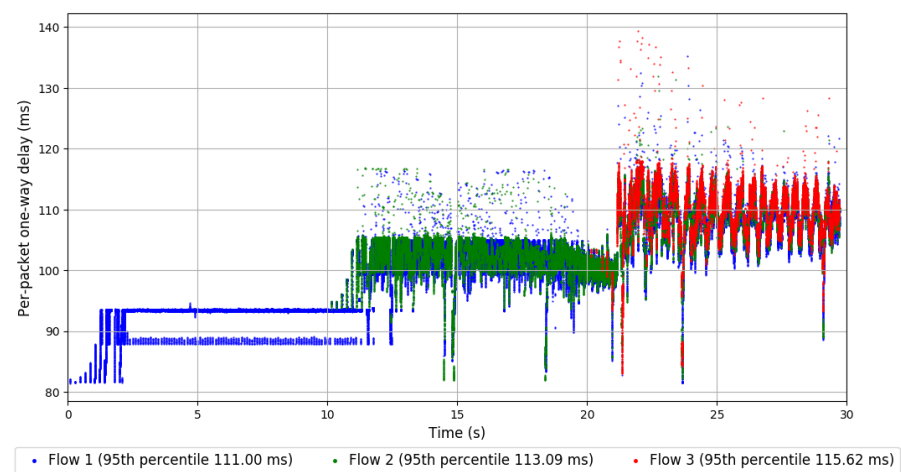
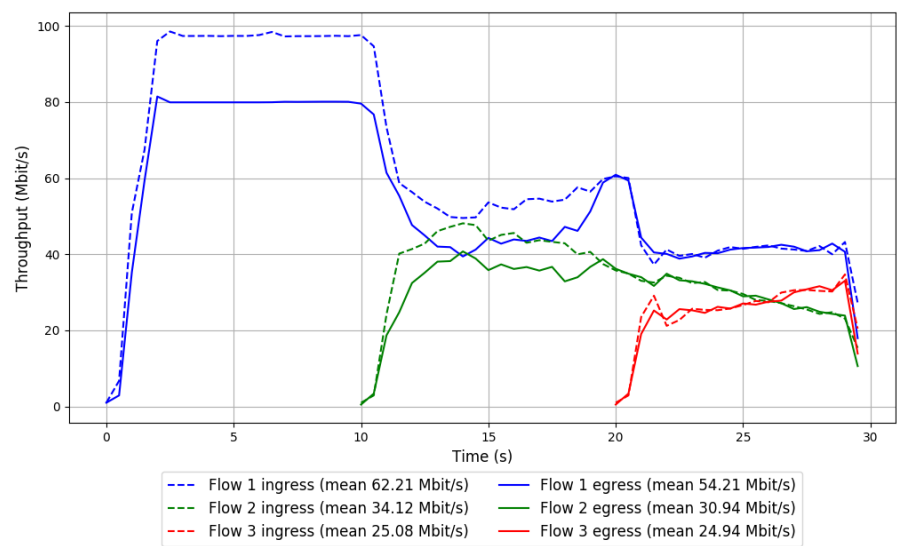


Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 14:05:50
End at: 2018-01-26 14:06:20
Local clock offset: -0.077 ms
Remote clock offset: -4.303 ms

Below is generated by plot.py at 2018-01-26 17:58:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.69 Mbit/s
95th percentile per-packet one-way delay: 112.780 ms
Loss rate: 11.73%
-- Flow 1:
Average throughput: 54.21 Mbit/s
95th percentile per-packet one-way delay: 110.999 ms
Loss rate: 13.47%
-- Flow 2:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 113.091 ms
Loss rate: 10.18%
-- Flow 3:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 115.624 ms
Loss rate: 2.81%

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

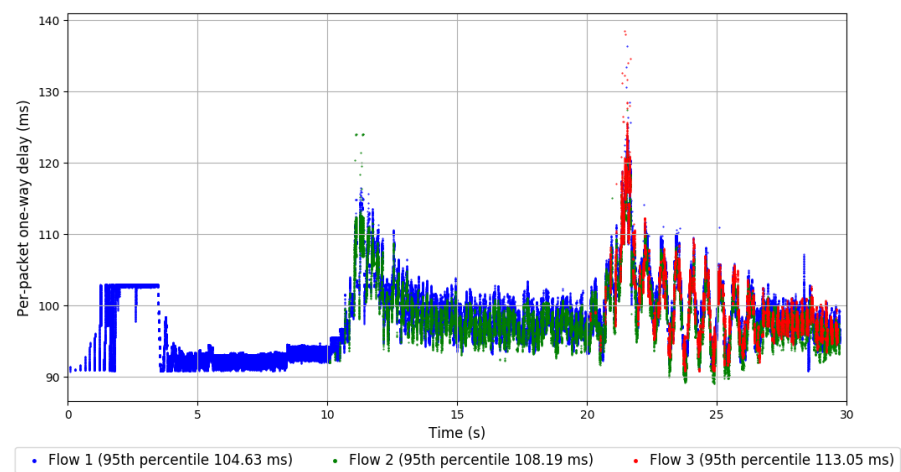
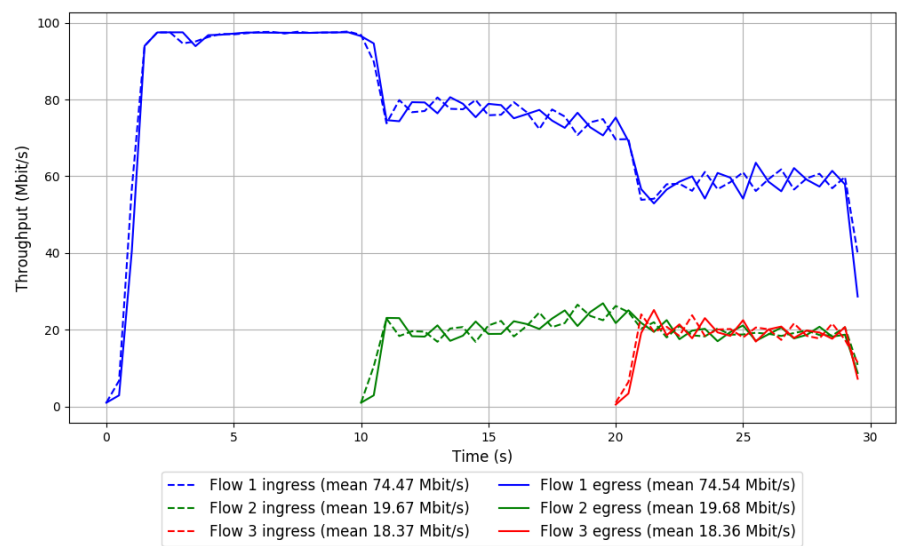


Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 10:40:27
End at: 2018-01-26 10:40:57
Local clock offset: -0.145 ms
Remote clock offset: -11.736 ms

Below is generated by plot.py at 2018-01-26 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 106.093 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 74.54 Mbit/s
95th percentile per-packet one-way delay: 104.627 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 108.187 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 113.046 ms
Loss rate: 2.02%

Run 1: Report of Indigo-1-128 — Data Link

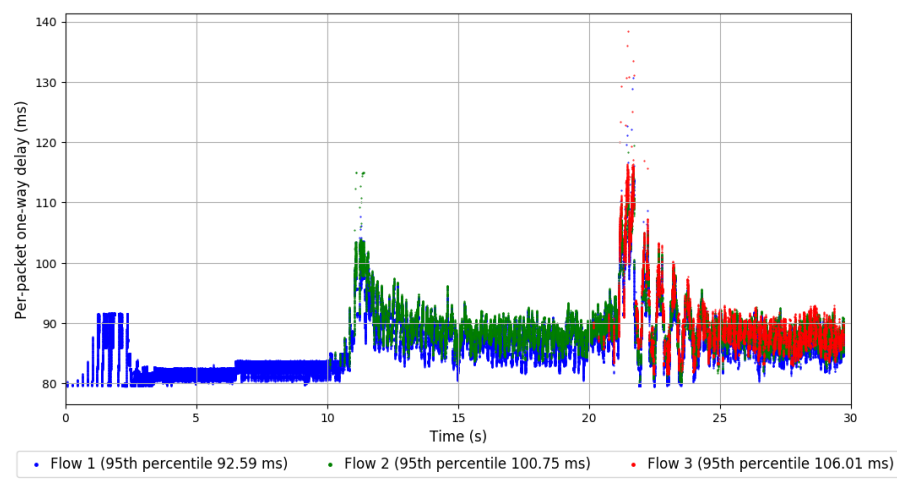
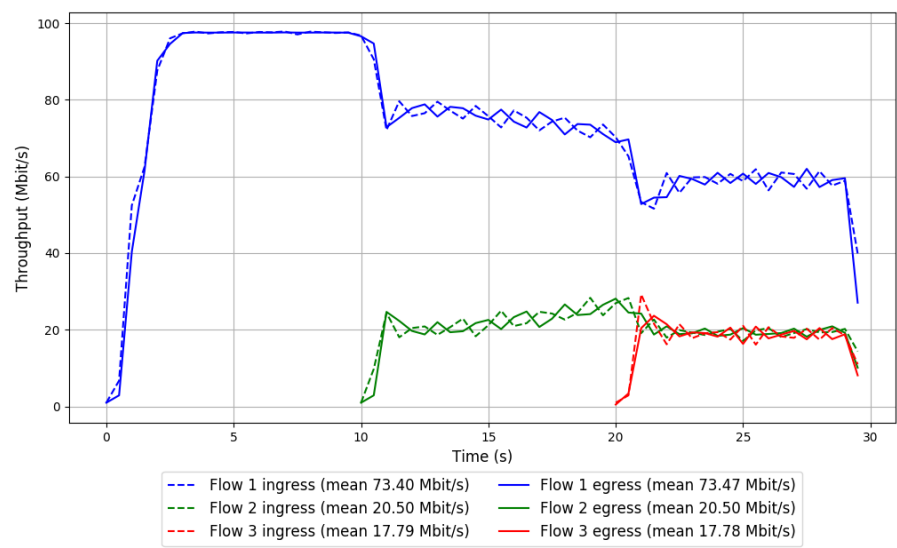


Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 11:01:39
End at: 2018-01-26 11:02:09
Local clock offset: -0.153 ms
Remote clock offset: -3.547 ms

Below is generated by plot.py at 2018-01-26 17:59:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 95.108 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 73.47 Mbit/s
95th percentile per-packet one-way delay: 92.591 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 100.749 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 17.78 Mbit/s
95th percentile per-packet one-way delay: 106.008 ms
Loss rate: 2.04%

Run 2: Report of Indigo-1-128 — Data Link

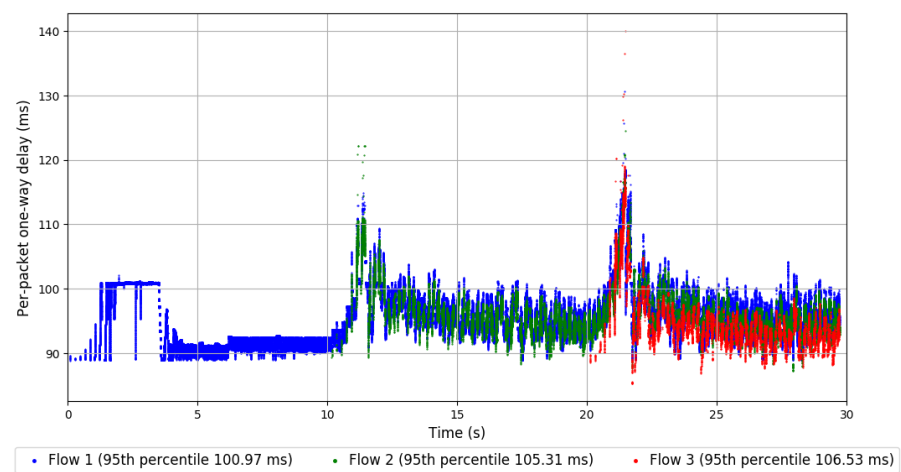
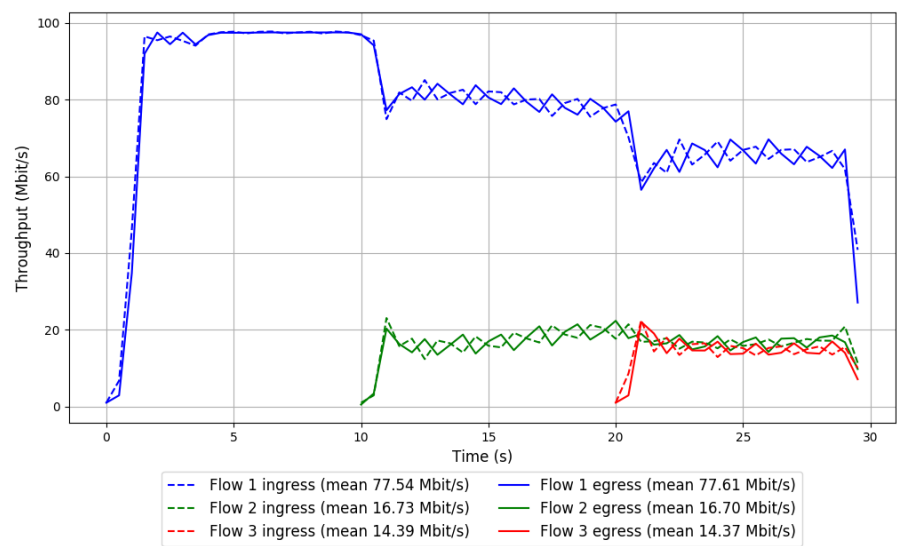


Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 11:22:53
End at: 2018-01-26 11:23:23
Local clock offset: -0.182 ms
Remote clock offset: -8.792 ms

Below is generated by plot.py at 2018-01-26 17:59:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.28 Mbit/s
95th percentile per-packet one-way delay: 101.000 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 77.61 Mbit/s
95th percentile per-packet one-way delay: 100.972 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 105.308 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 14.37 Mbit/s
95th percentile per-packet one-way delay: 106.531 ms
Loss rate: 2.00%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 11:44:15

End at: 2018-01-26 11:44:45

Local clock offset: -0.405 ms

Remote clock offset: 8.932 ms

Below is generated by plot.py at 2018-01-26 17:59:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 84.193 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 71.60 Mbit/s

95th percentile per-packet one-way delay: 82.221 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 91.389 ms

Loss rate: 0.94%

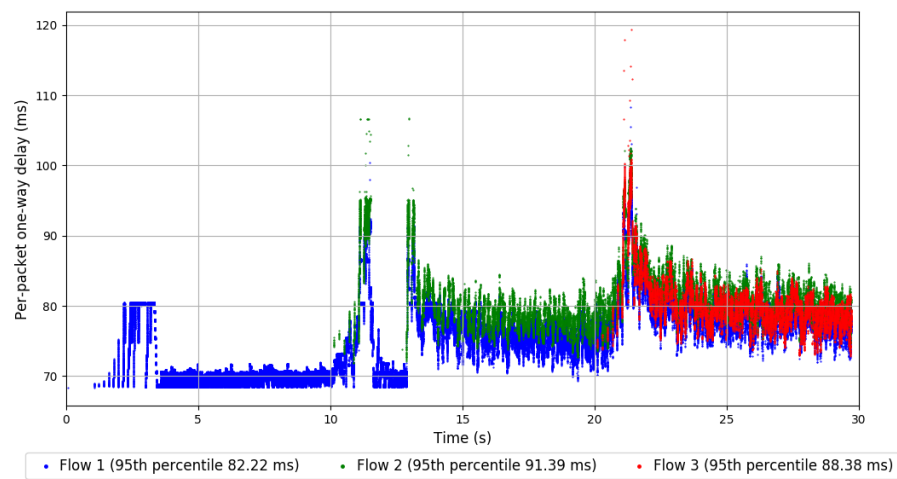
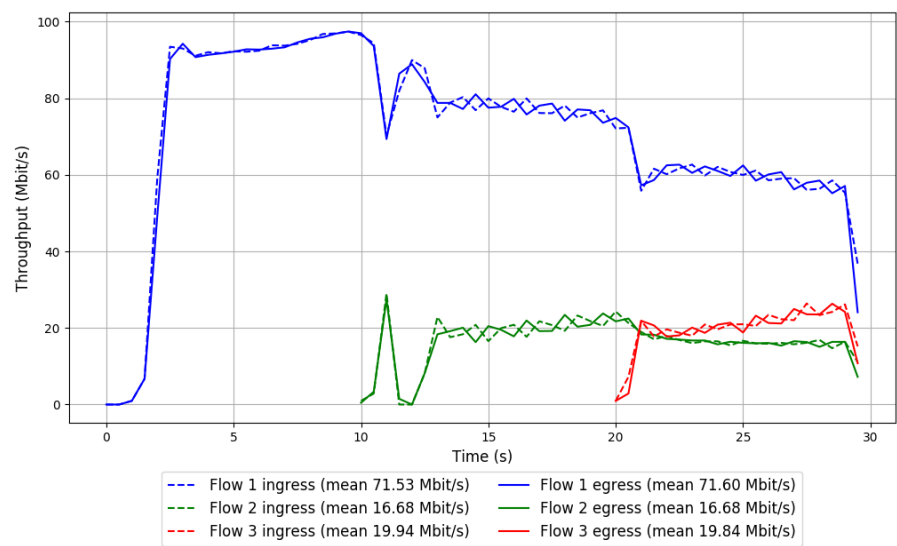
-- Flow 3:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 88.381 ms

Loss rate: 2.34%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 12:05:21

End at: 2018-01-26 12:05:51

Local clock offset: -0.347 ms

Remote clock offset: 7.931 ms

Below is generated by plot.py at 2018-01-26 18:00:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.49 Mbit/s

95th percentile per-packet one-way delay: 83.679 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 81.442 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 89.163 ms

Loss rate: 0.88%

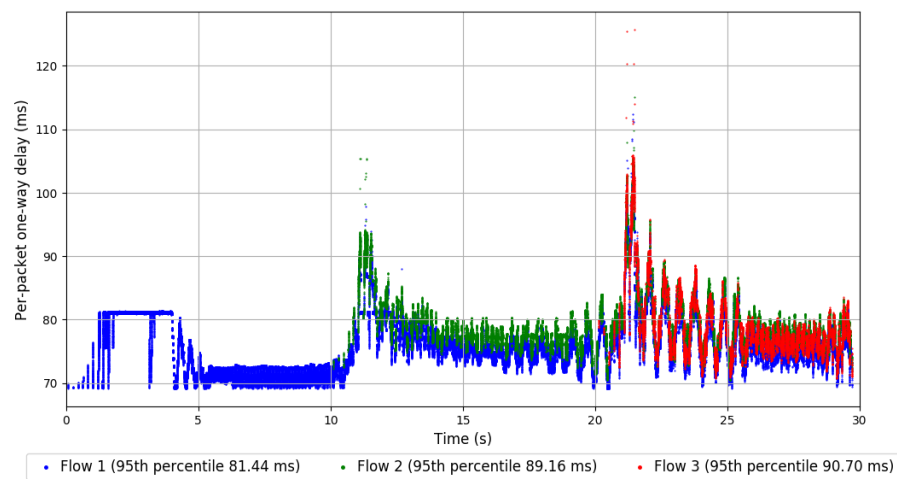
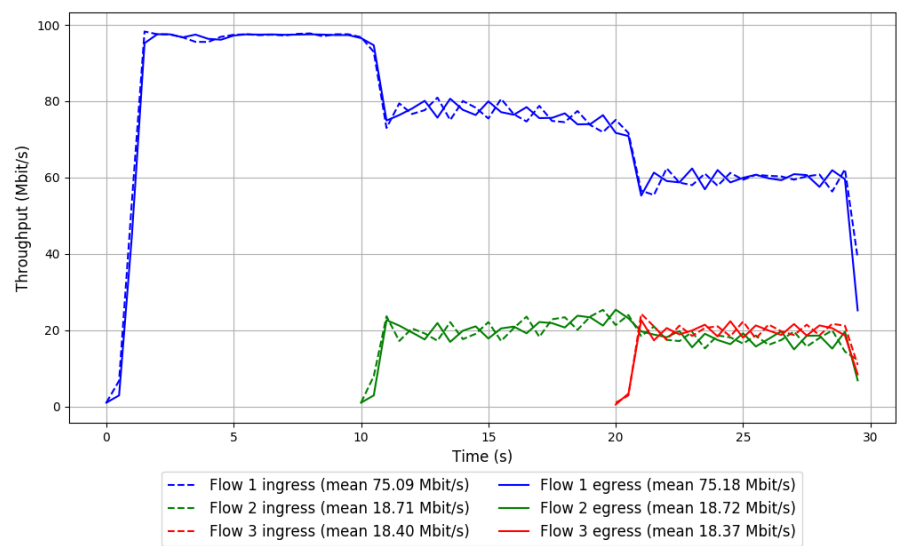
-- Flow 3:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 90.703 ms

Loss rate: 2.16%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 12:26:41

End at: 2018-01-26 12:27:11

Local clock offset: -0.281 ms

Remote clock offset: 1.978 ms

Below is generated by plot.py at 2018-01-26 18:00:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 91.644 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 73.20 Mbit/s

95th percentile per-packet one-way delay: 89.907 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 96.406 ms

Loss rate: 0.89%

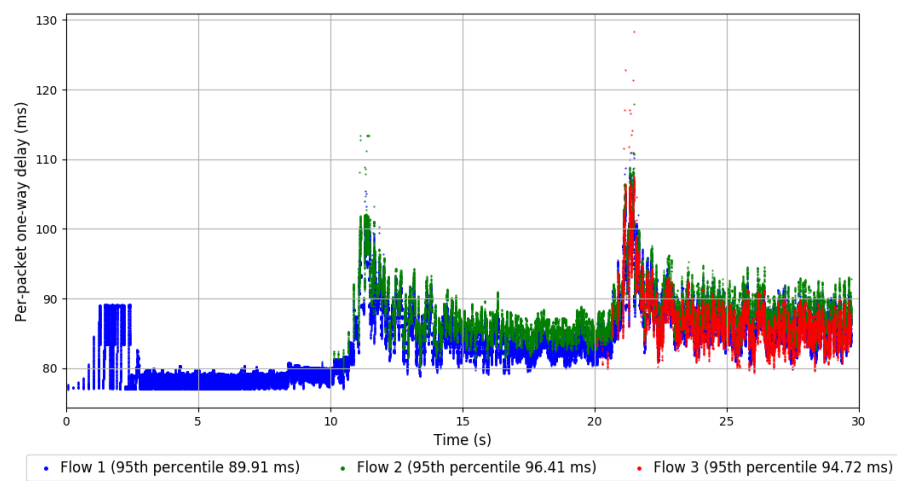
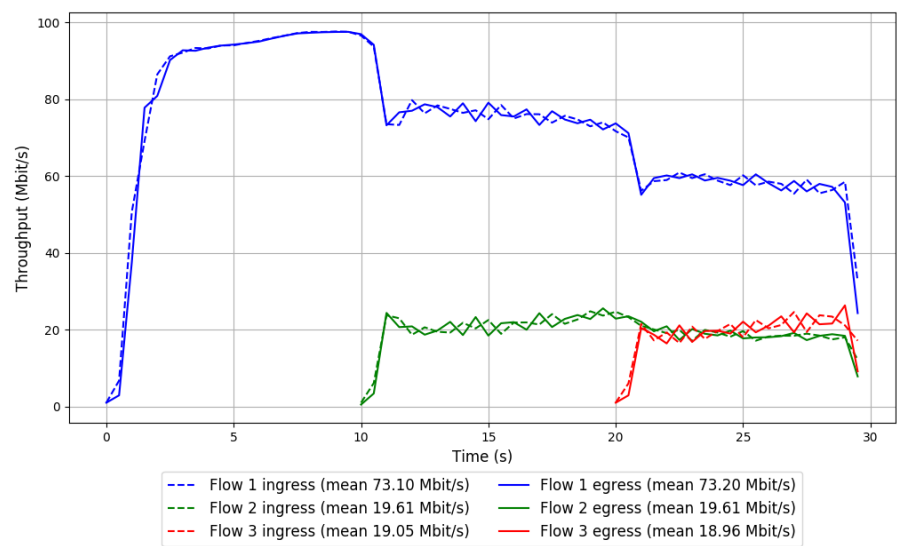
-- Flow 3:

Average throughput: 18.96 Mbit/s

95th percentile per-packet one-way delay: 94.725 ms

Loss rate: 2.39%

Run 6: Report of Indigo-1-128 — Data Link

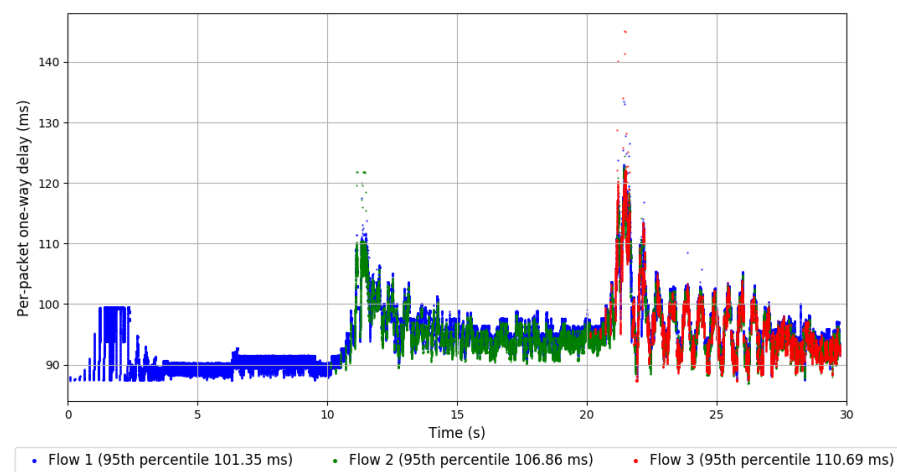
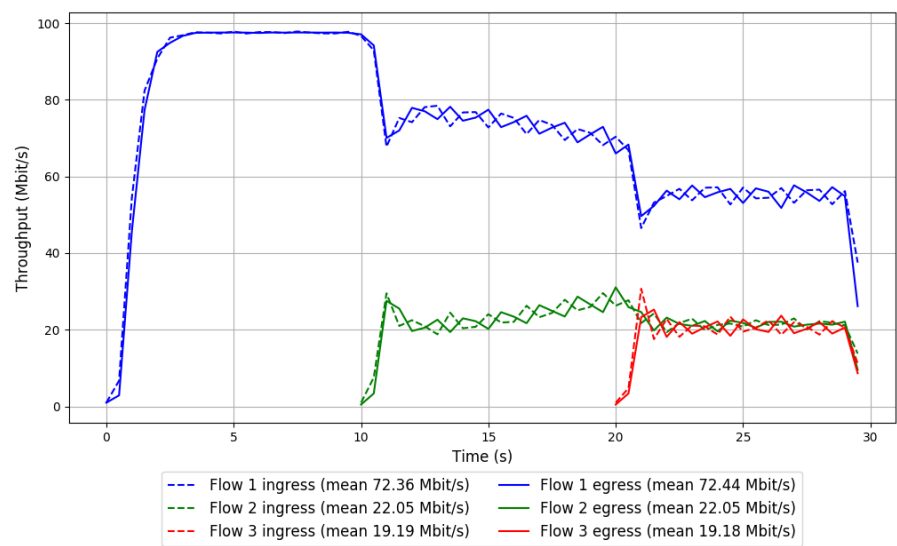


Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 12:48:03
End at: 2018-01-26 12:48:33
Local clock offset: -0.211 ms
Remote clock offset: -8.542 ms

Below is generated by plot.py at 2018-01-26 18:00:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 102.529 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 72.44 Mbit/s
95th percentile per-packet one-way delay: 101.346 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 22.05 Mbit/s
95th percentile per-packet one-way delay: 106.855 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 19.18 Mbit/s
95th percentile per-packet one-way delay: 110.694 ms
Loss rate: 2.01%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 13:09:38

End at: 2018-01-26 13:10:08

Local clock offset: -0.218 ms

Remote clock offset: 3.348 ms

Below is generated by plot.py at 2018-01-26 18:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.37 Mbit/s

95th percentile per-packet one-way delay: 89.354 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 88.113 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 92.857 ms

Loss rate: 0.82%

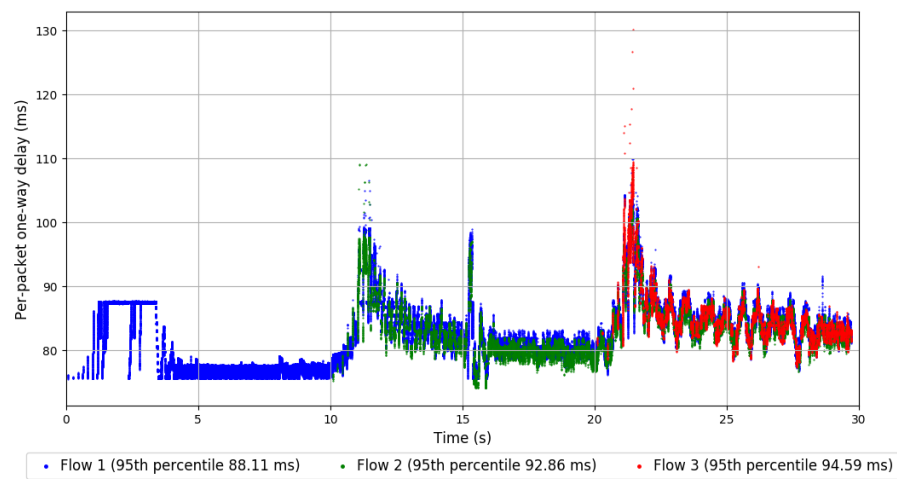
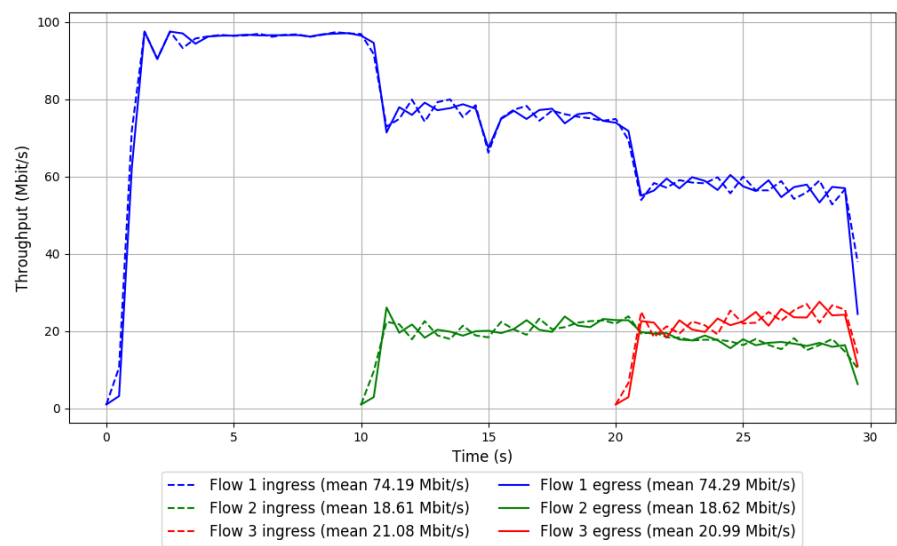
-- Flow 3:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 94.587 ms

Loss rate: 2.32%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 13:31:05

End at: 2018-01-26 13:31:35

Local clock offset: -0.241 ms

Remote clock offset: 2.308 ms

Below is generated by plot.py at 2018-01-26 18:00:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.19 Mbit/s

95th percentile per-packet one-way delay: 91.657 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 90.374 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 18.10 Mbit/s

95th percentile per-packet one-way delay: 95.203 ms

Loss rate: 0.85%

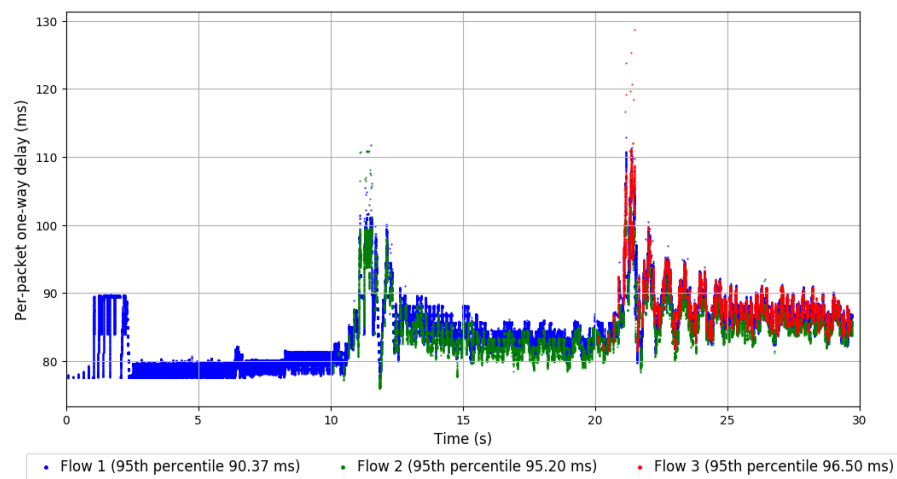
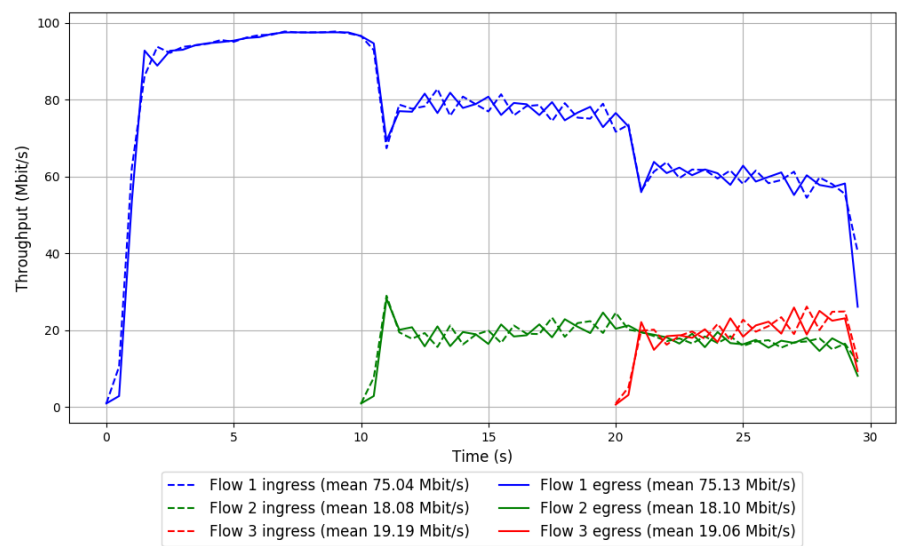
-- Flow 3:

Average throughput: 19.06 Mbit/s

95th percentile per-packet one-way delay: 96.499 ms

Loss rate: 2.58%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 13:52:34

End at: 2018-01-26 13:53:04

Local clock offset: -0.218 ms

Remote clock offset: 1.871 ms

Below is generated by plot.py at 2018-01-26 18:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 89.041 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 75.49 Mbit/s

95th percentile per-packet one-way delay: 87.731 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 19.39 Mbit/s

95th percentile per-packet one-way delay: 95.373 ms

Loss rate: 0.85%

-- Flow 3:

Average throughput: 16.40 Mbit/s

95th percentile per-packet one-way delay: 103.009 ms

Loss rate: 2.58%

Run 10: Report of Indigo-1-128 — Data Link

