

Pantheon Report

Generated at 2018-01-02 14:03:56 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

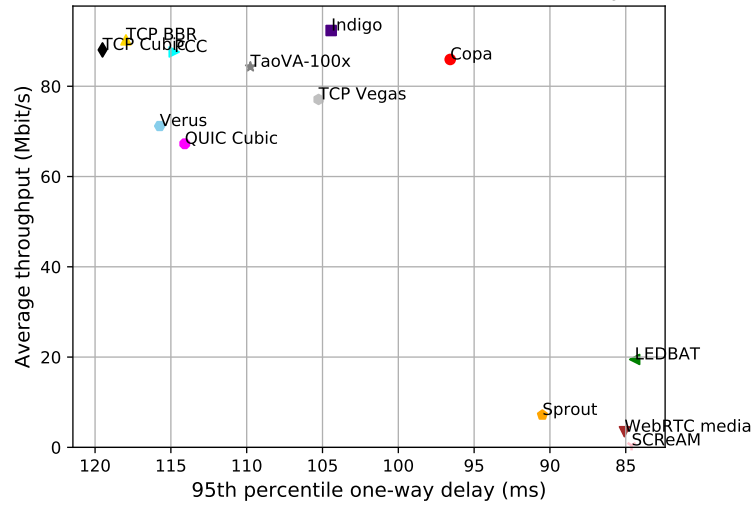
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

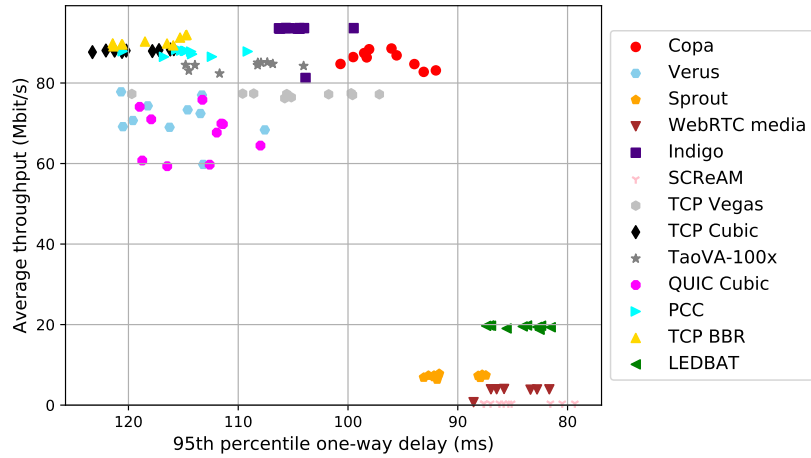
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/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	10	55.11	38.49	29.55	117.21	117.80	118.14	0.38	0.87	2.23
TCP Cubic	10	52.70	39.01	28.98	118.39	118.87	119.15	0.56	1.35	3.58
LEDBAT	10	12.71	8.24	4.03	83.92	84.30	83.81	1.12	1.58	3.44
PCC	10	58.32	32.73	25.80	112.68	115.26	116.99	1.55	3.30	6.12
QUIC Cubic	10	38.33	33.04	21.60	112.01	113.85	115.57	0.75	1.27	2.09
SCReAM	10	0.22	0.22	0.22	84.26	83.00	83.38	0.51	0.90	1.53
WebRTC media	7	1.85	1.13	0.54	84.13	85.37	84.38	0.64	0.65	2.36
Sprout	10	3.88	3.60	2.81	90.09	90.93	89.40	0.55	1.01	2.35
TaoVA-100x	10	52.42	38.80	25.19	107.52	110.47	111.59	0.41	0.87	2.69
TCP Vegas	10	44.01	43.65	12.54	104.63	105.41	105.82	0.57	0.84	1.93
Verus	10	37.73	37.31	26.83	113.17	116.08	117.94	0.51	1.26	3.40
Copa	10	73.55	15.23	9.41	96.26	97.21	98.52	0.52	1.14	3.08
FillP	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo	10	65.14	27.20	28.56	102.27	107.50	108.86	0.35	0.76	2.24

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 07:26:23

End at: 2018-01-02 07:26:53

Local clock offset: 0.515 ms

Remote clock offset: 1.958 ms

Below is generated by plot.py at 2018-01-02 13:48:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 114.770 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 114.605 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 113.217 ms

Loss rate: 0.83%

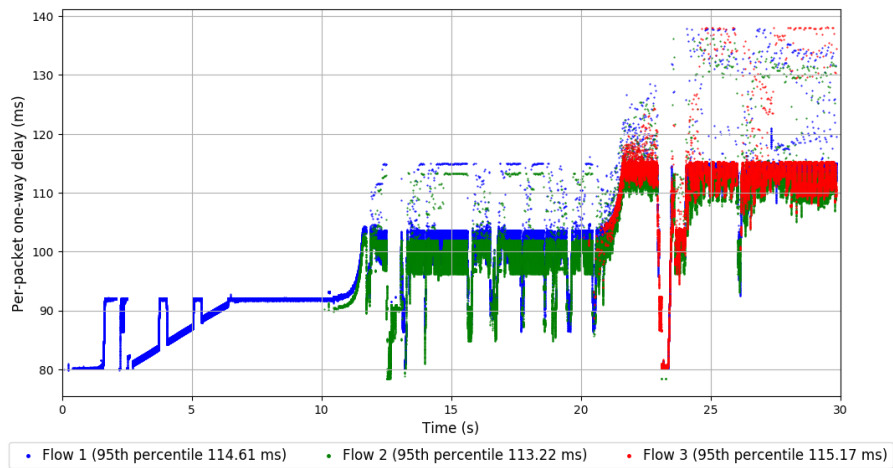
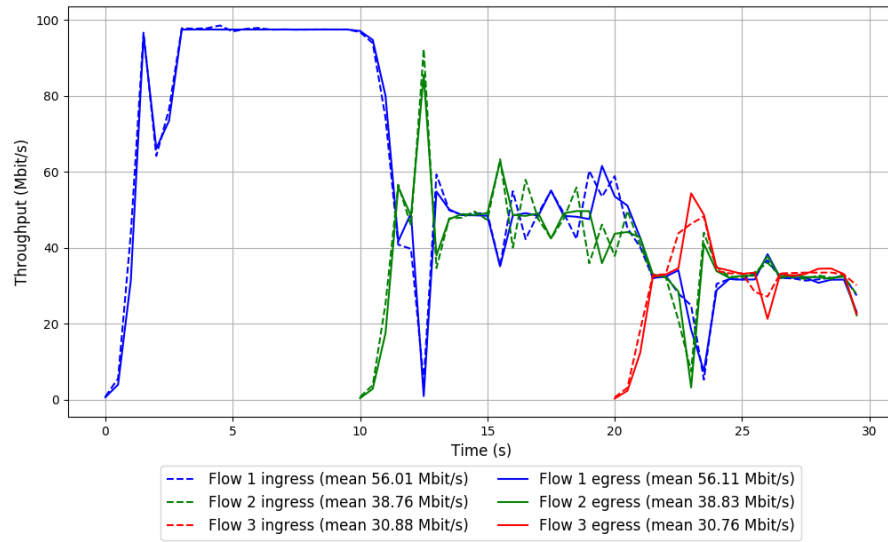
-- Flow 3:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 115.174 ms

Loss rate: 2.31%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 07:45:58

End at: 2018-01-02 07:46:28

Local clock offset: 0.449 ms

Remote clock offset: 1.089 ms

Below is generated by plot.py at 2018-01-02 13:48:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.82 Mbit/s

95th percentile per-packet one-way delay: 116.485 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 54.98 Mbit/s

95th percentile per-packet one-way delay: 116.228 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 37.32 Mbit/s

95th percentile per-packet one-way delay: 116.587 ms

Loss rate: 0.96%

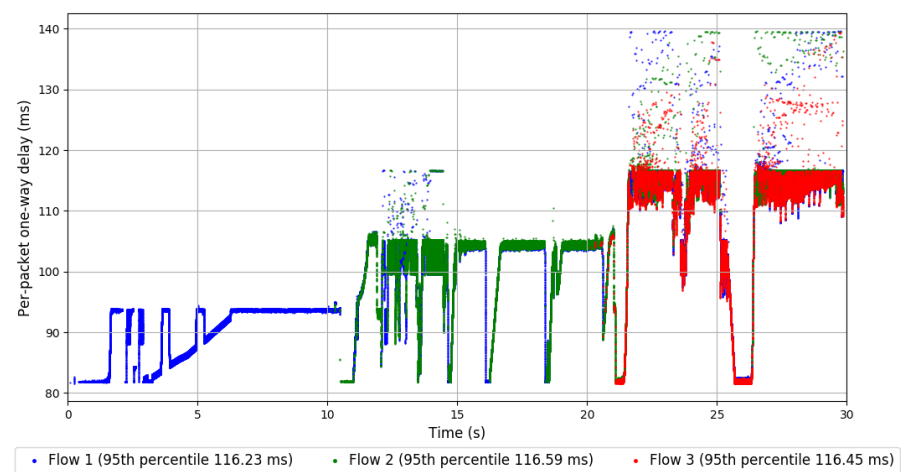
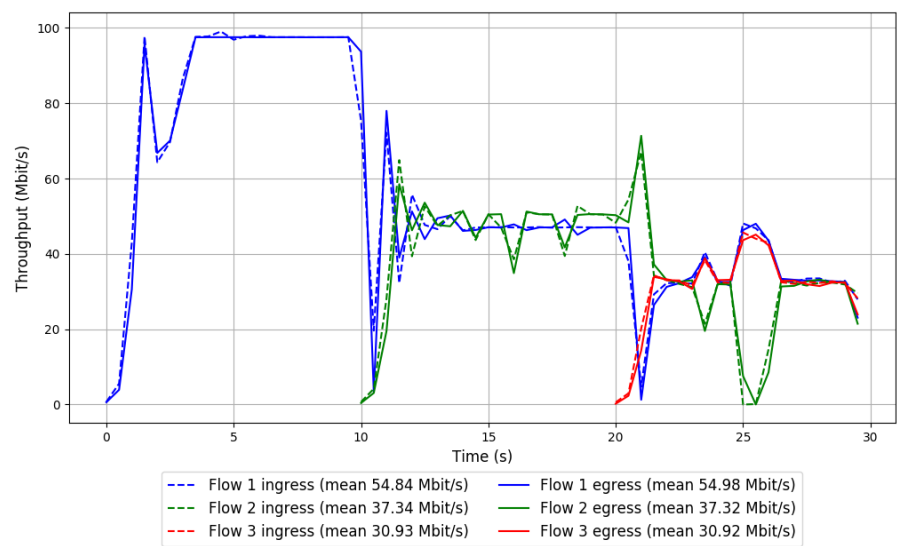
-- Flow 3:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 116.448 ms

Loss rate: 2.05%

Run 2: Report of TCP BBR — Data Link

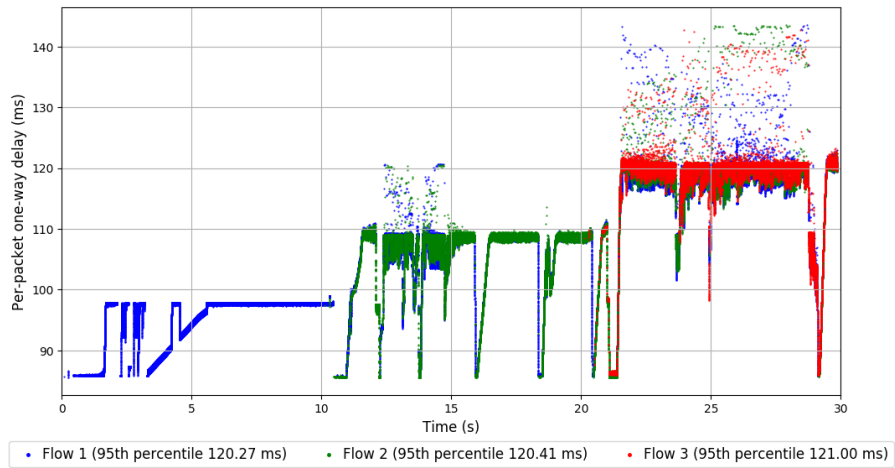
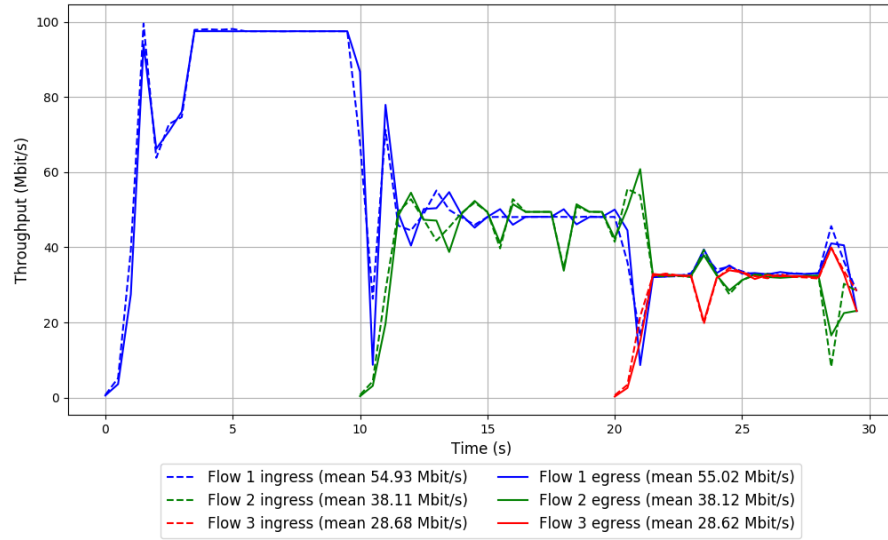


Run 3: Statistics of TCP BBR

Start at: 2018-01-02 08:05:29
End at: 2018-01-02 08:05:59
Local clock offset: 0.308 ms
Remote clock offset: -2.353 ms

Below is generated by plot.py at 2018-01-02 13:48:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 120.605 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 120.273 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 120.410 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 120.995 ms
Loss rate: 2.31%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 08:25:03

End at: 2018-01-02 08:25:33

Local clock offset: 0.158 ms

Remote clock offset: 3.784 ms

Below is generated by plot.py at 2018-01-02 13:48:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 114.705 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 112.430 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 114.744 ms

Loss rate: 0.84%

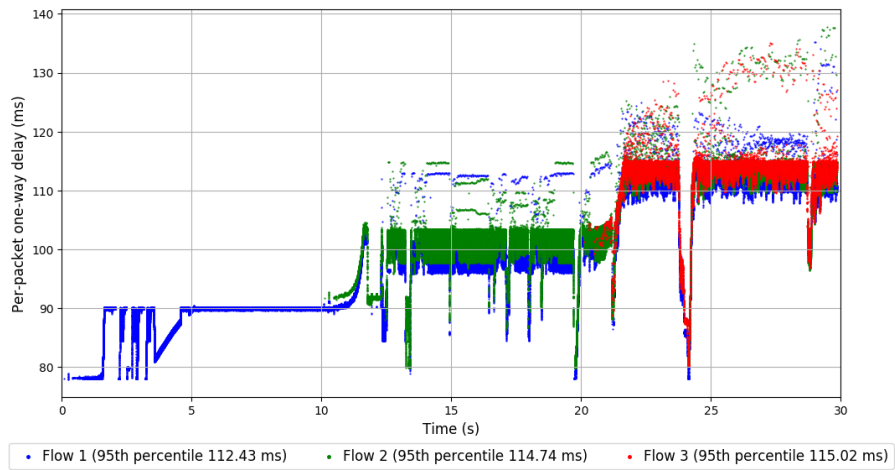
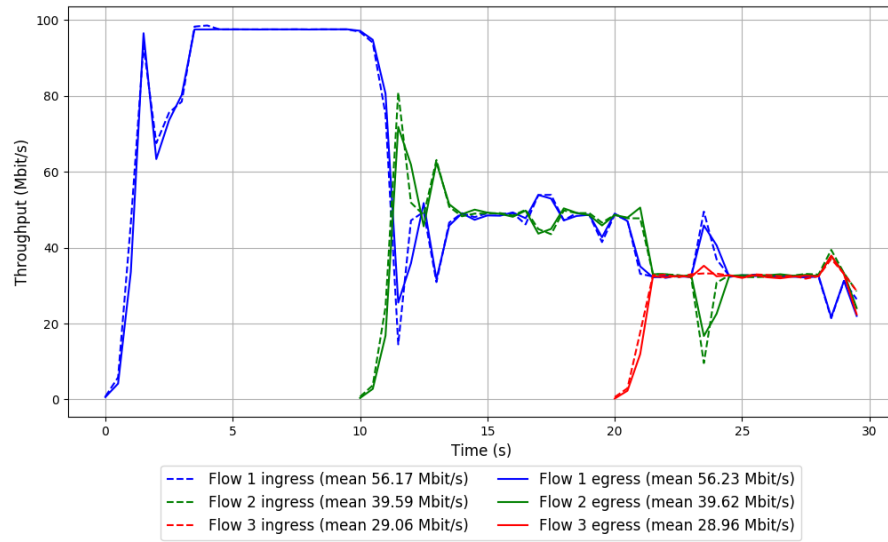
-- Flow 3:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 115.024 ms

Loss rate: 2.27%

Run 4: Report of TCP BBR — Data Link

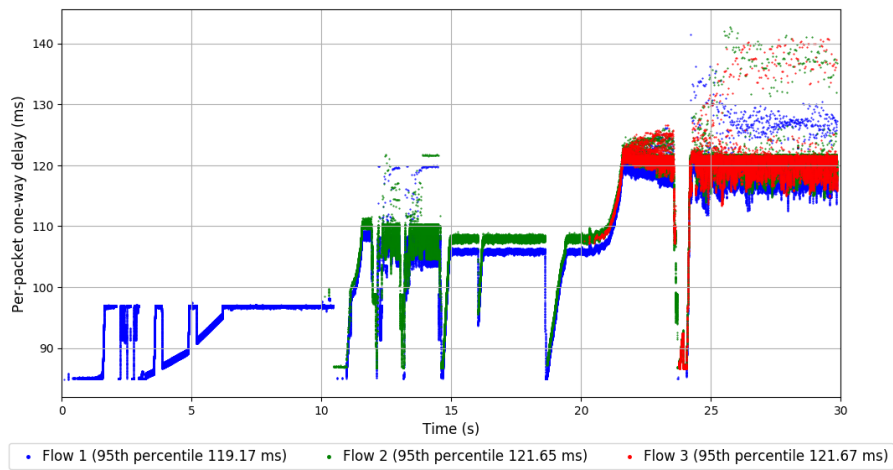
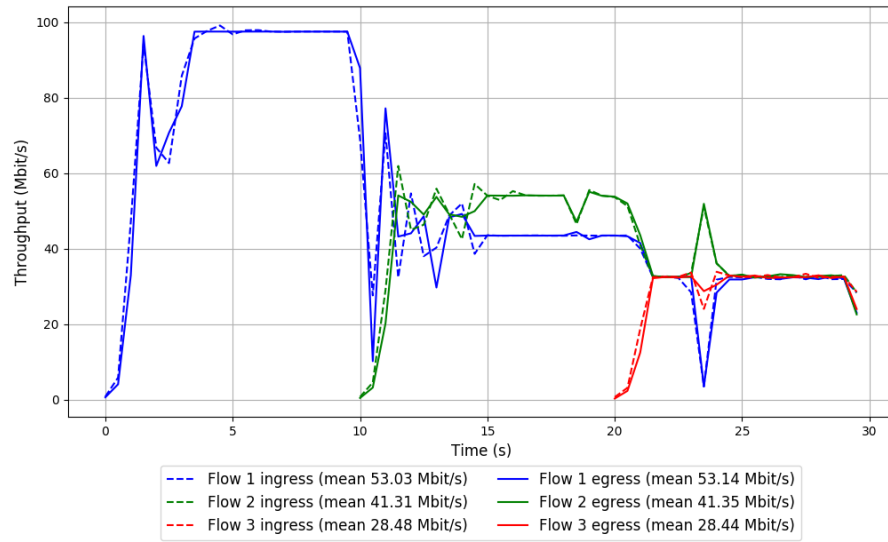


Run 5: Statistics of TCP BBR

Start at: 2018-01-02 08:44:38
End at: 2018-01-02 08:45:08
Local clock offset: 0.056 ms
Remote clock offset: -3.027 ms

Below is generated by plot.py at 2018-01-02 13:48:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.85 Mbit/s
95th percentile per-packet one-way delay: 121.435 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 119.171 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 41.35 Mbit/s
95th percentile per-packet one-way delay: 121.646 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 121.670 ms
Loss rate: 2.31%

Run 5: Report of TCP BBR — Data Link

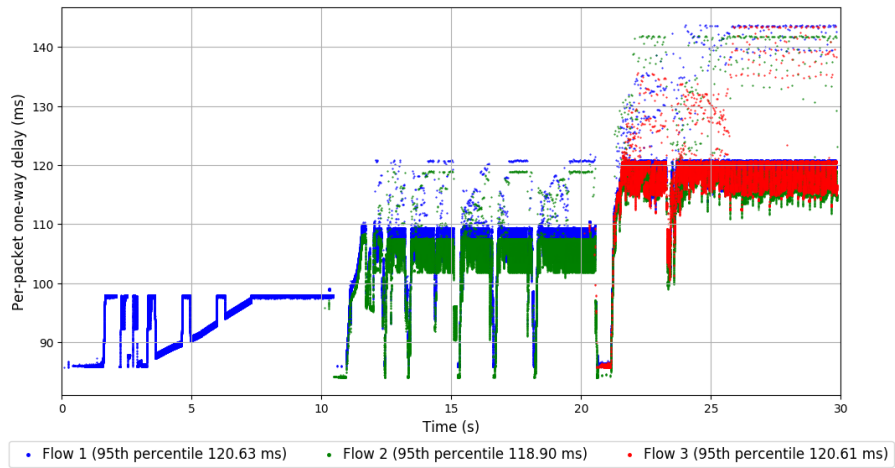
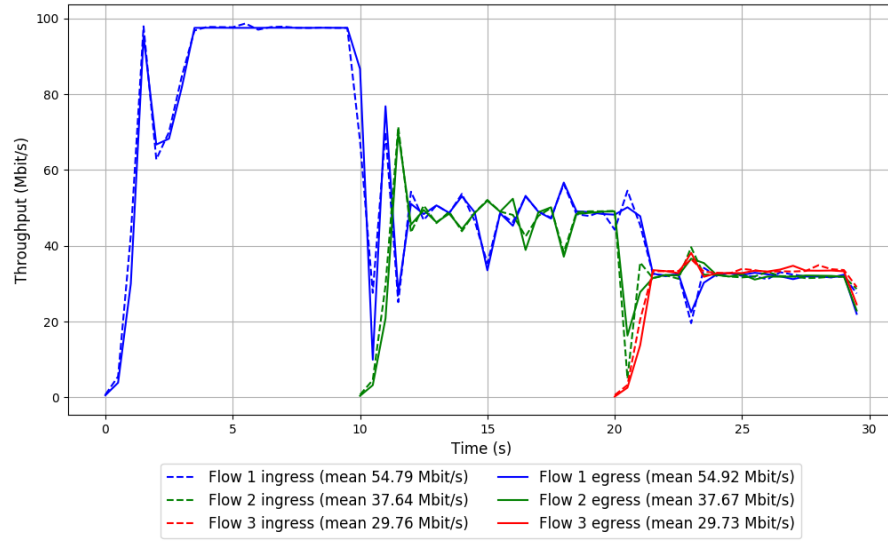


Run 6: Statistics of TCP BBR

Start at: 2018-01-02 09:04:12
End at: 2018-01-02 09:04:42
Local clock offset: -0.056 ms
Remote clock offset: -1.821 ms

Below is generated by plot.py at 2018-01-02 13:48:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 120.549 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 54.92 Mbit/s
95th percentile per-packet one-way delay: 120.631 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 118.902 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 120.612 ms
Loss rate: 2.27%

Run 6: Report of TCP BBR — Data Link

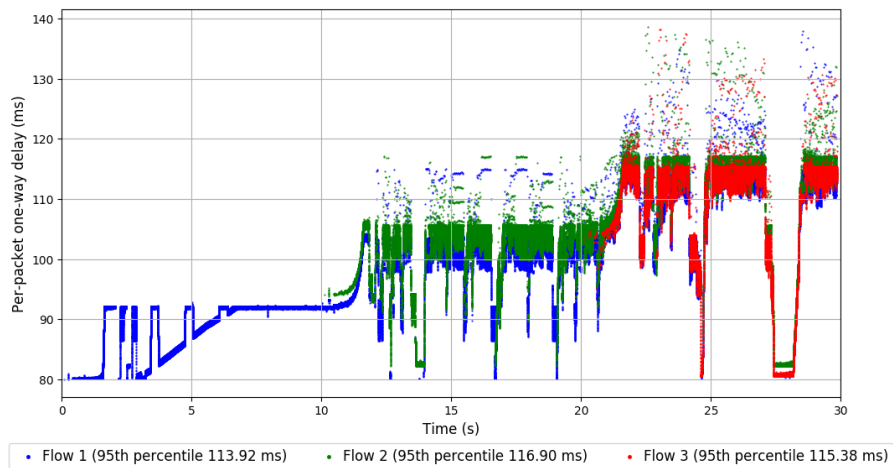
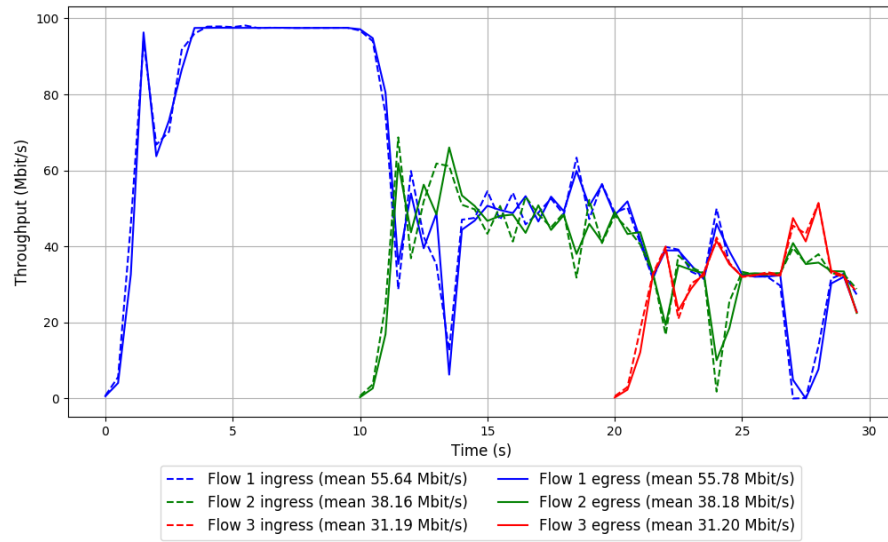


Run 7: Statistics of TCP BBR

Start at: 2018-01-02 09:23:44
End at: 2018-01-02 09:24:14
Local clock offset: -0.125 ms
Remote clock offset: 1.432 ms

Below is generated by plot.py at 2018-01-02 13:48:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 115.298 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 55.78 Mbit/s
95th percentile per-packet one-way delay: 113.916 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 38.18 Mbit/s
95th percentile per-packet one-way delay: 116.899 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 115.381 ms
Loss rate: 2.06%

Run 7: Report of TCP BBR — Data Link

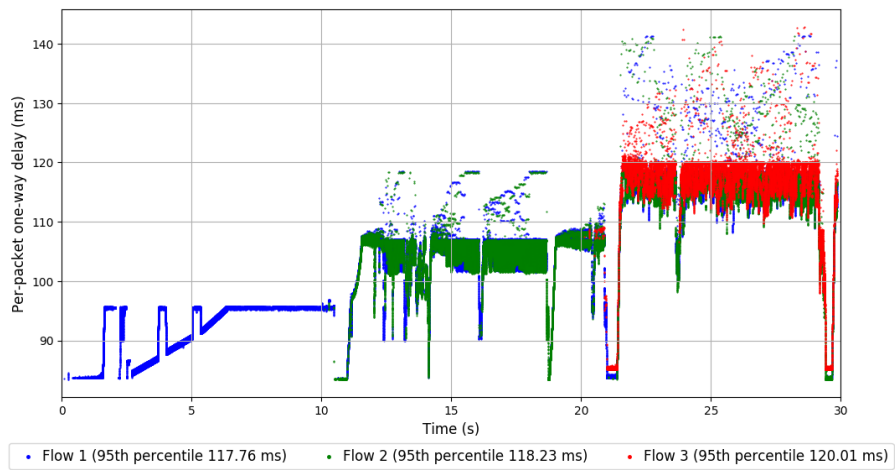
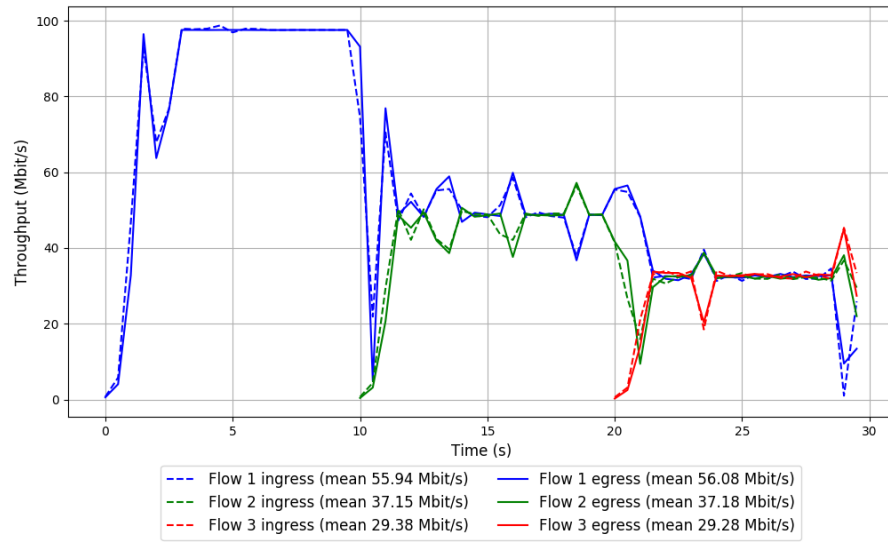


Run 8: Statistics of TCP BBR

Start at: 2018-01-02 09:43:18
End at: 2018-01-02 09:43:48
Local clock offset: -0.169 ms
Remote clock offset: -1.679 ms

Below is generated by plot.py at 2018-01-02 13:48:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 118.493 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 56.08 Mbit/s
95th percentile per-packet one-way delay: 117.757 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 37.18 Mbit/s
95th percentile per-packet one-way delay: 118.235 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 29.28 Mbit/s
95th percentile per-packet one-way delay: 120.007 ms
Loss rate: 2.30%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 10:02:55

End at: 2018-01-02 10:03:26

Local clock offset: -0.265 ms

Remote clock offset: 2.561 ms

Below is generated by plot.py at 2018-01-02 13:49:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 115.918 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 54.10 Mbit/s

95th percentile per-packet one-way delay: 116.017 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 39.15 Mbit/s

95th percentile per-packet one-way delay: 115.667 ms

Loss rate: 0.91%

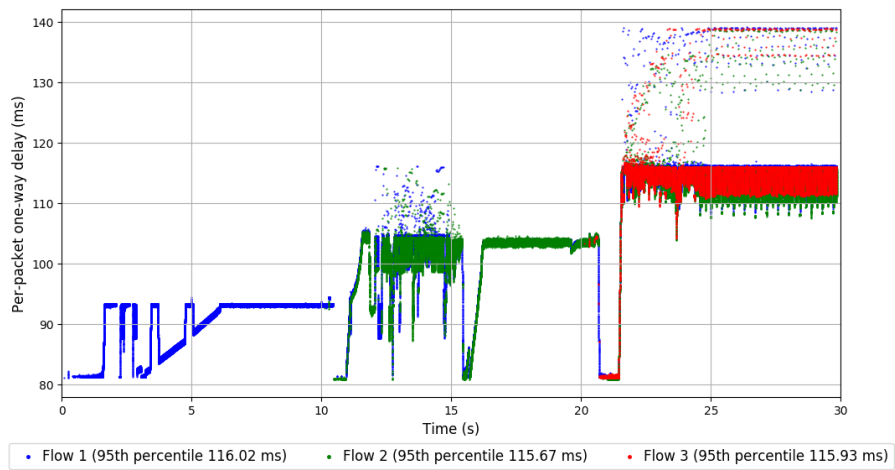
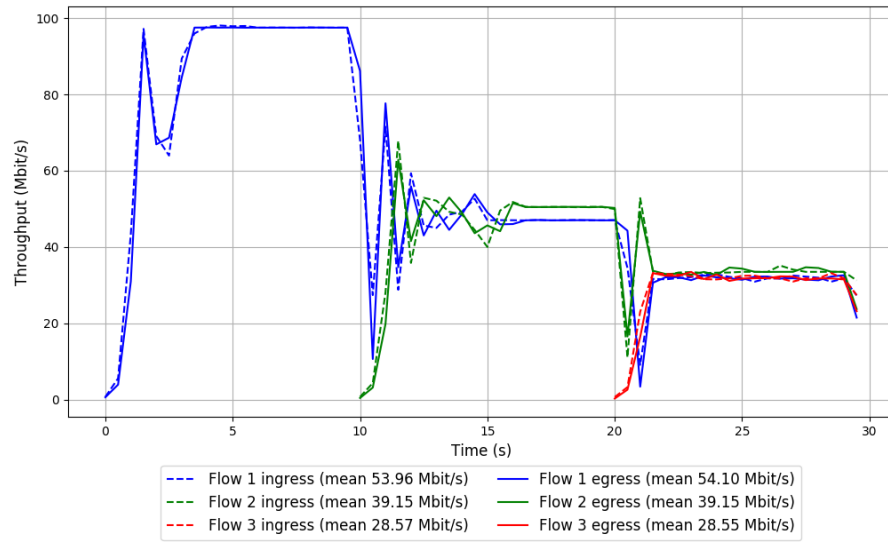
-- Flow 3:

Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 115.933 ms

Loss rate: 2.22%

Run 9: Report of TCP BBR — Data Link

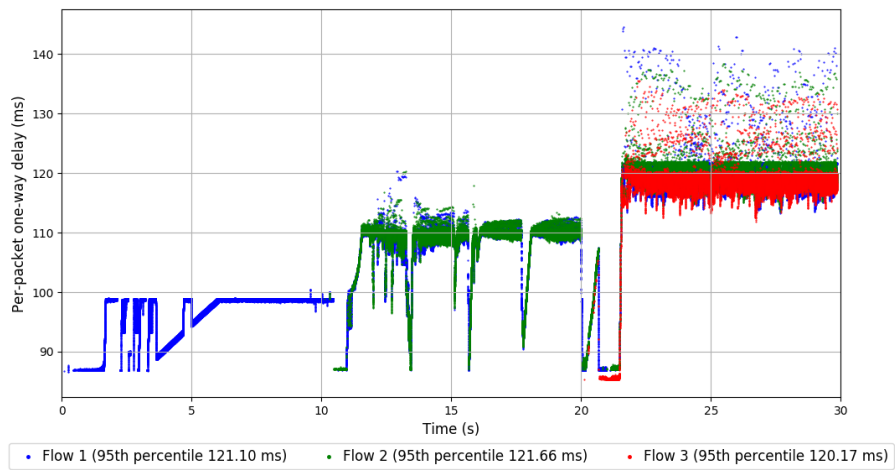
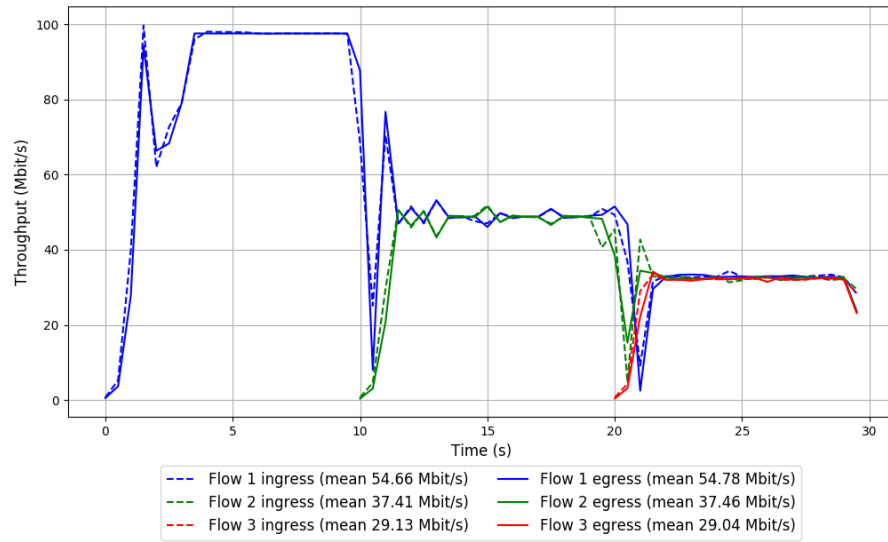


Run 10: Statistics of TCP BBR

Start at: 2018-01-02 10:22:27
End at: 2018-01-02 10:22:57
Local clock offset: -0.357 ms
Remote clock offset: -3.267 ms

Below is generated by plot.py at 2018-01-02 13:49:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.11 Mbit/s
95th percentile per-packet one-way delay: 121.370 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 54.78 Mbit/s
95th percentile per-packet one-way delay: 121.100 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 121.662 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 29.04 Mbit/s
95th percentile per-packet one-way delay: 120.172 ms
Loss rate: 2.21%

Run 10: Report of TCP BBR — Data Link

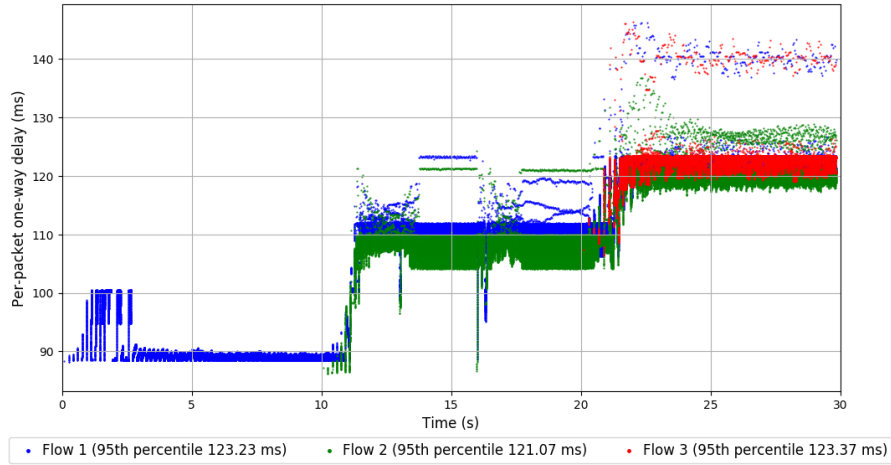
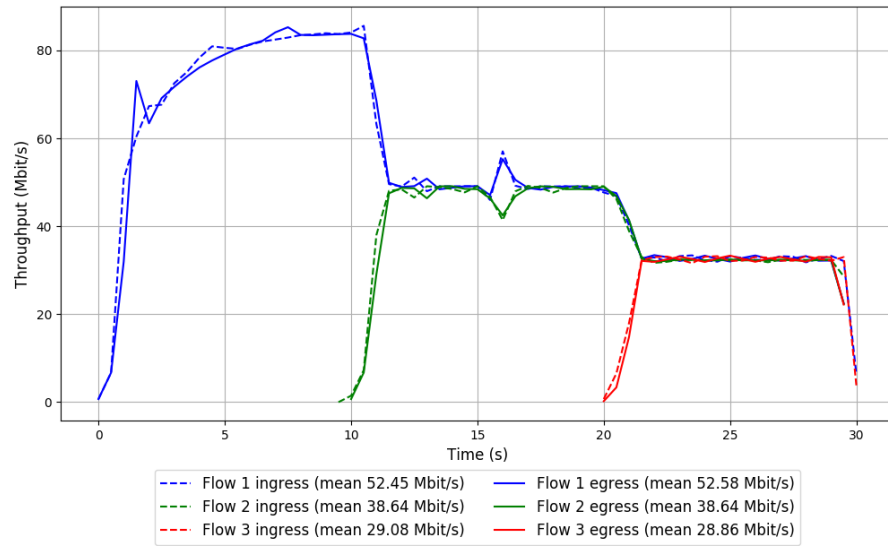


Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 07:25:03
End at: 2018-01-02 07:25:33
Local clock offset: 0.517 ms
Remote clock offset: -4.599 ms

Below is generated by plot.py at 2018-01-02 13:49:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 123.279 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 52.58 Mbit/s
95th percentile per-packet one-way delay: 123.235 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 121.074 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 123.367 ms
Loss rate: 3.76%

Run 1: Report of TCP Cubic — Data Link

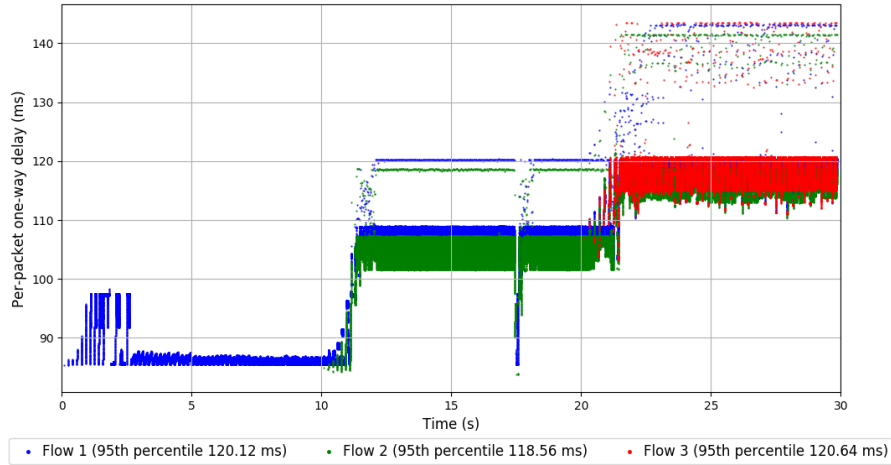
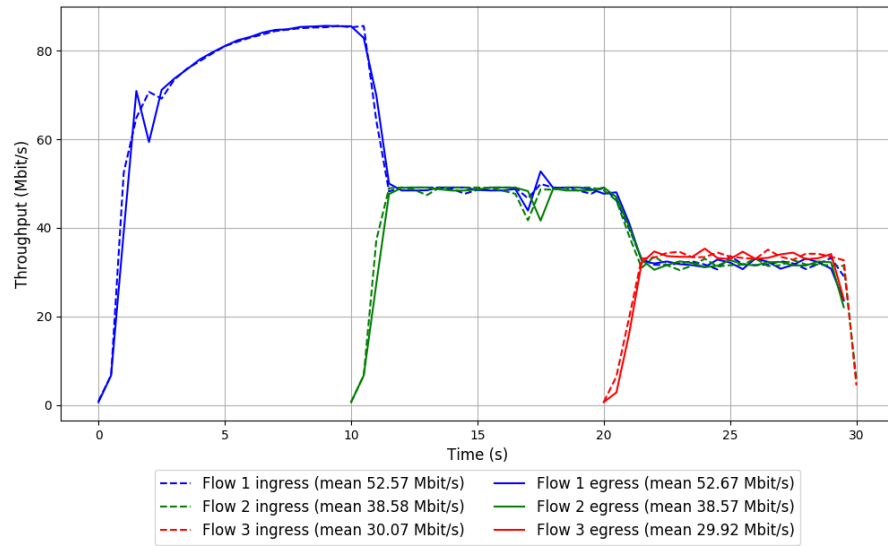


Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 07:44:38
End at: 2018-01-02 07:45:08
Local clock offset: 0.485 ms
Remote clock offset: -2.942 ms

Below is generated by plot.py at 2018-01-02 13:49:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.04 Mbit/s
95th percentile per-packet one-way delay: 120.203 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 52.67 Mbit/s
95th percentile per-packet one-way delay: 120.116 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 38.57 Mbit/s
95th percentile per-packet one-way delay: 118.563 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 29.92 Mbit/s
95th percentile per-packet one-way delay: 120.636 ms
Loss rate: 3.58%

Run 2: Report of TCP Cubic — Data Link

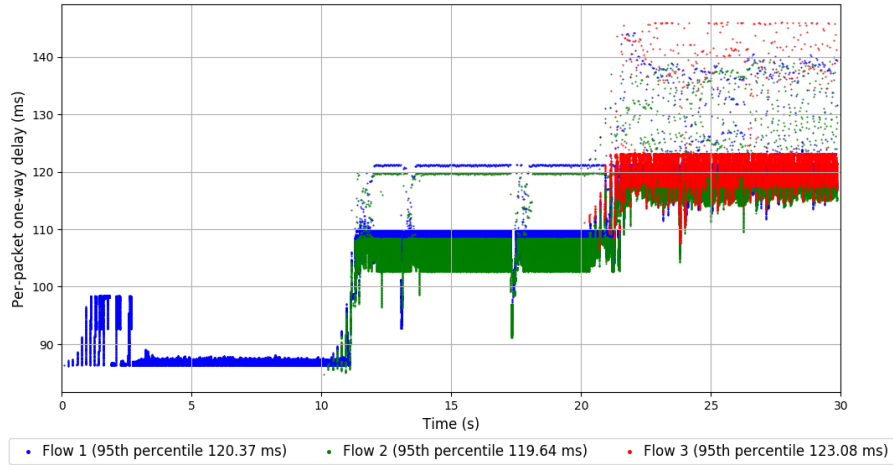
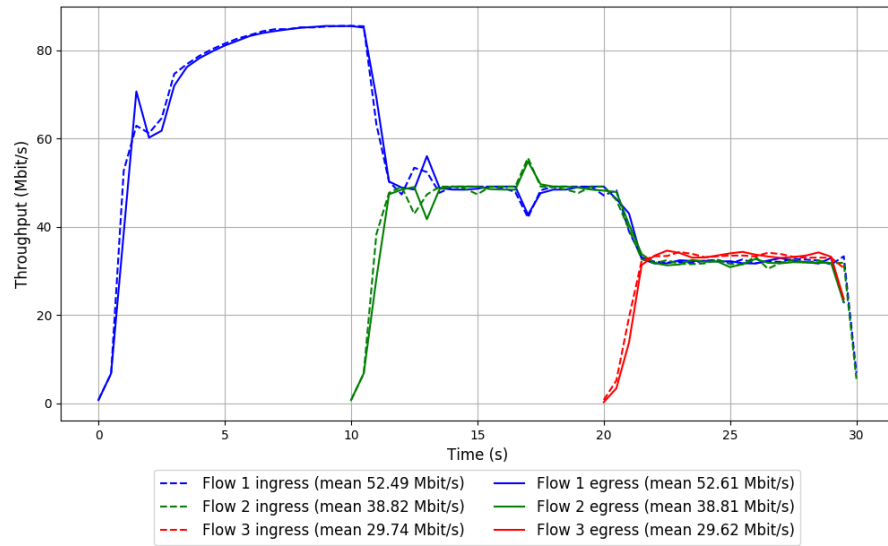


Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 08:04:10
End at: 2018-01-02 08:04:40
Local clock offset: 0.312 ms
Remote clock offset: -3.152 ms

Below is generated by plot.py at 2018-01-02 13:49:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.04 Mbit/s
95th percentile per-packet one-way delay: 121.263 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 52.61 Mbit/s
95th percentile per-packet one-way delay: 120.374 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 119.635 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 123.084 ms
Loss rate: 2.33%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 08:23:43

End at: 2018-01-02 08:24:13

Local clock offset: 0.181 ms

Remote clock offset: 2.583 ms

Below is generated by plot.py at 2018-01-02 13:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 117.822 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 117.886 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 39.04 Mbit/s

95th percentile per-packet one-way delay: 117.807 ms

Loss rate: 1.41%

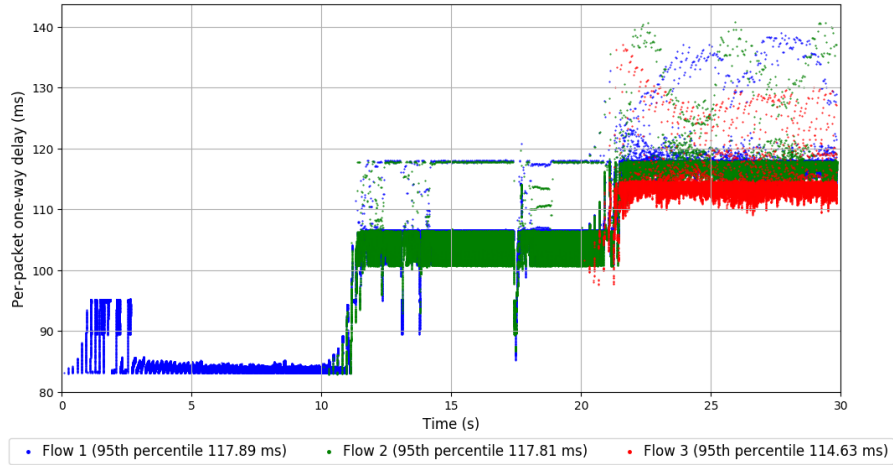
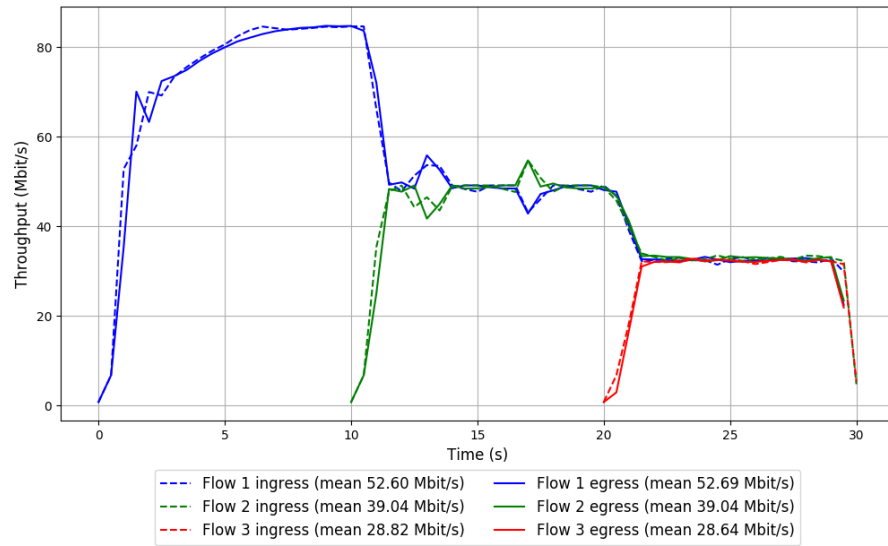
-- Flow 3:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 114.629 ms

Loss rate: 3.77%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 08:43:19

End at: 2018-01-02 08:43:49

Local clock offset: 0.049 ms

Remote clock offset: -1.74 ms

Below is generated by plot.py at 2018-01-02 13:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 120.584 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 52.76 Mbit/s

95th percentile per-packet one-way delay: 121.931 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 38.81 Mbit/s

95th percentile per-packet one-way delay: 120.375 ms

Loss rate: 1.44%

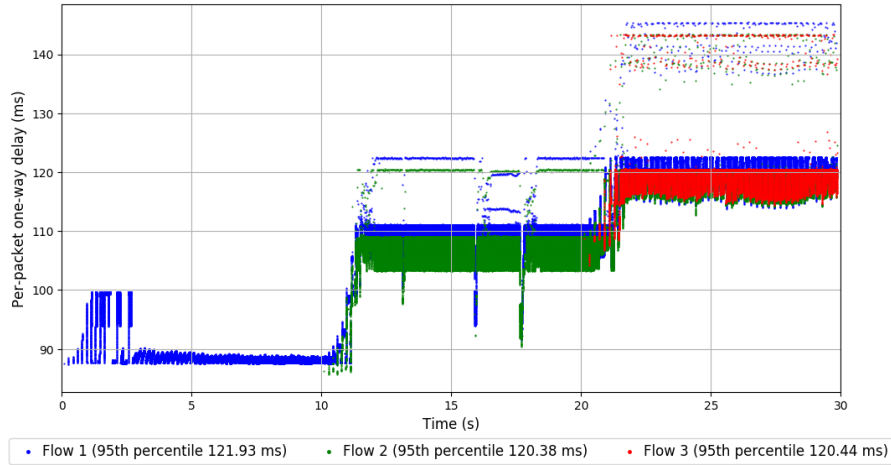
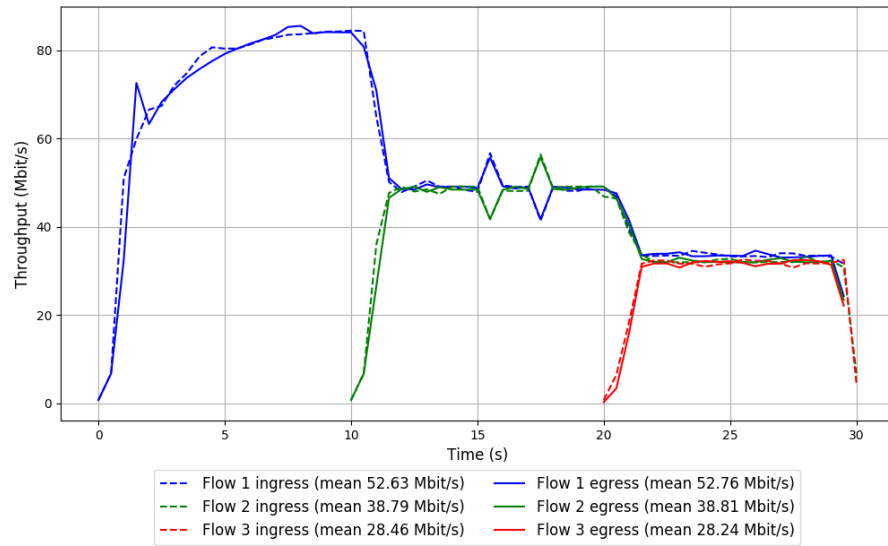
-- Flow 3:

Average throughput: 28.24 Mbit/s

95th percentile per-packet one-way delay: 120.436 ms

Loss rate: 3.76%

Run 5: Report of TCP Cubic — Data Link

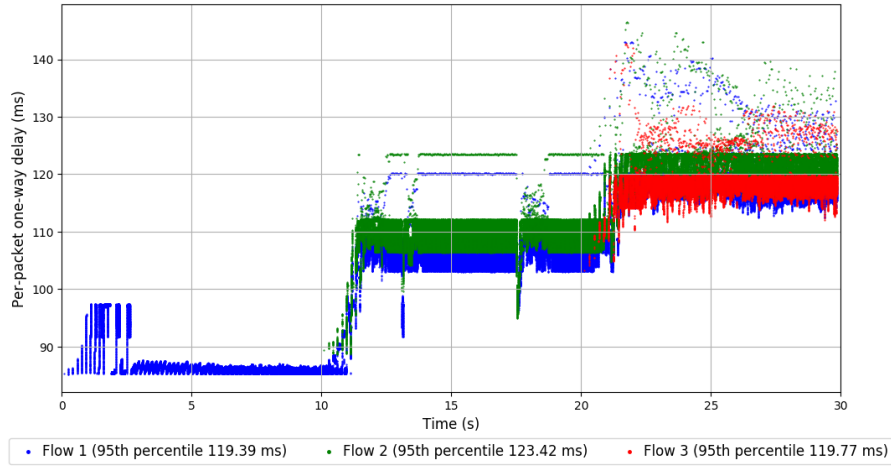
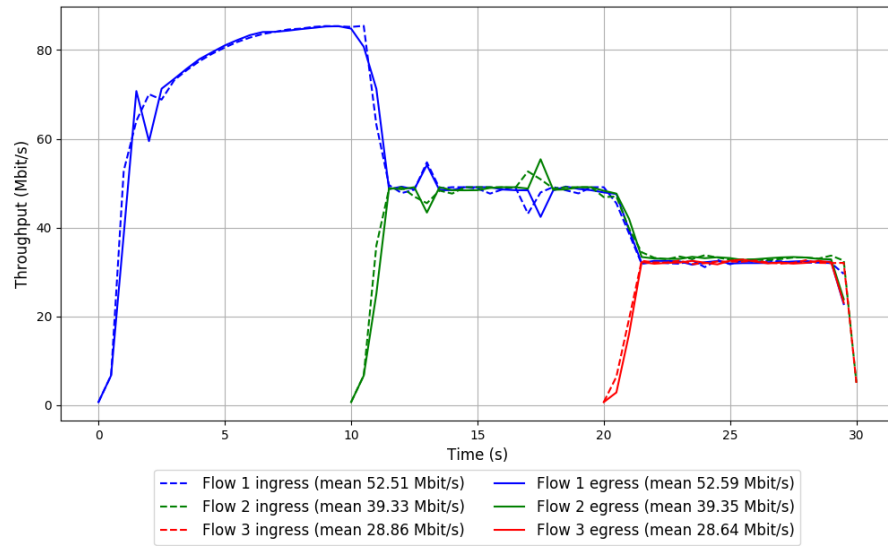


Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 09:02:53
End at: 2018-01-02 09:03:23
Local clock offset: -0.067 ms
Remote clock offset: -3.036 ms

Below is generated by plot.py at 2018-01-02 13:49:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.07 Mbit/s
95th percentile per-packet one-way delay: 122.055 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 119.388 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 123.424 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 119.771 ms
Loss rate: 3.72%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 09:22:25

End at: 2018-01-02 09:22:55

Local clock offset: -0.122 ms

Remote clock offset: 2.738 ms

Below is generated by plot.py at 2018-01-02 13:50:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 117.216 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 52.78 Mbit/s

95th percentile per-packet one-way delay: 115.478 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 115.924 ms

Loss rate: 1.44%

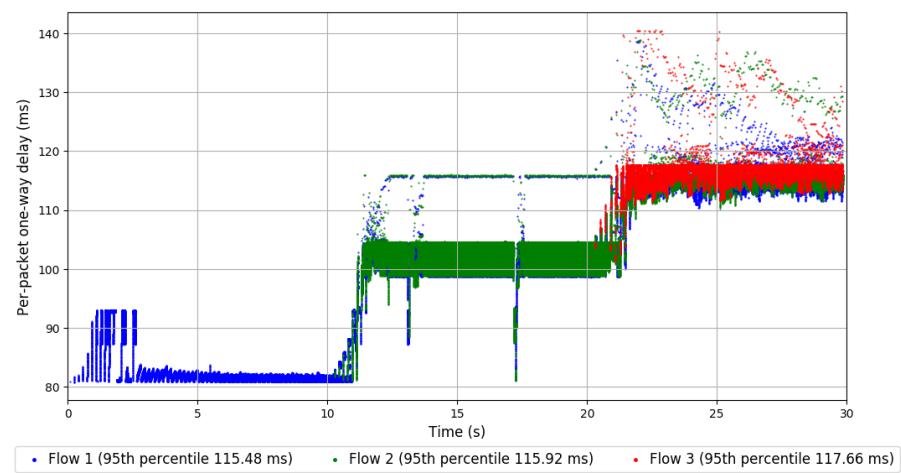
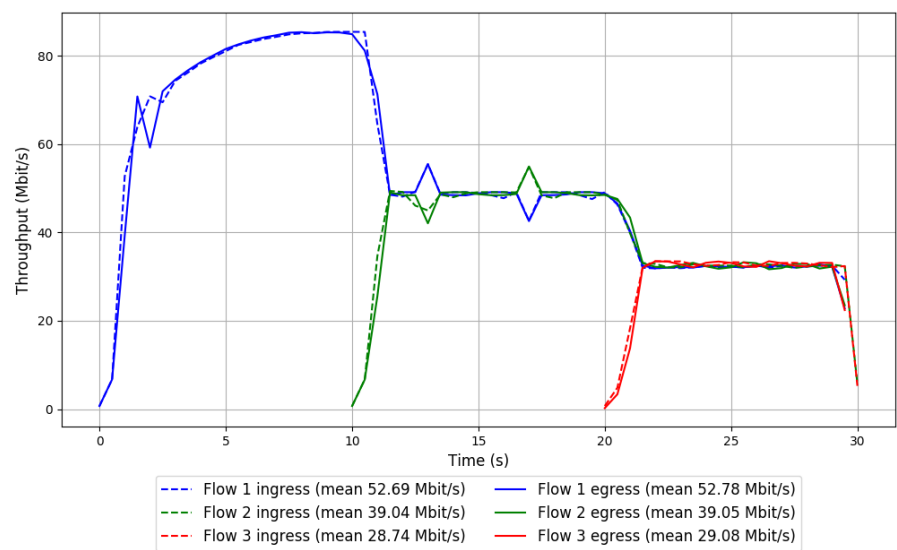
-- Flow 3:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 117.656 ms

Loss rate: 3.76%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 09:41:58

End at: 2018-01-02 09:42:28

Local clock offset: -0.17 ms

Remote clock offset: 3.602 ms

Below is generated by plot.py at 2018-01-02 13:50:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 115.870 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 52.93 Mbit/s

95th percentile per-packet one-way delay: 112.552 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 39.11 Mbit/s

95th percentile per-packet one-way delay: 112.988 ms

Loss rate: 1.57%

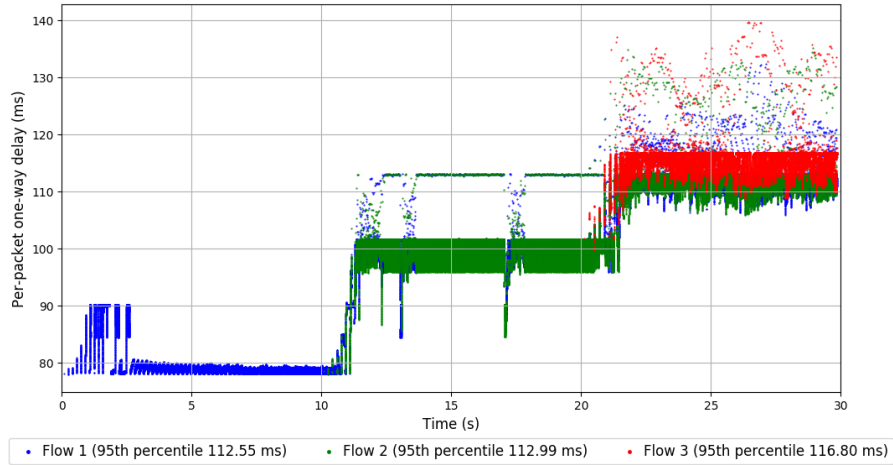
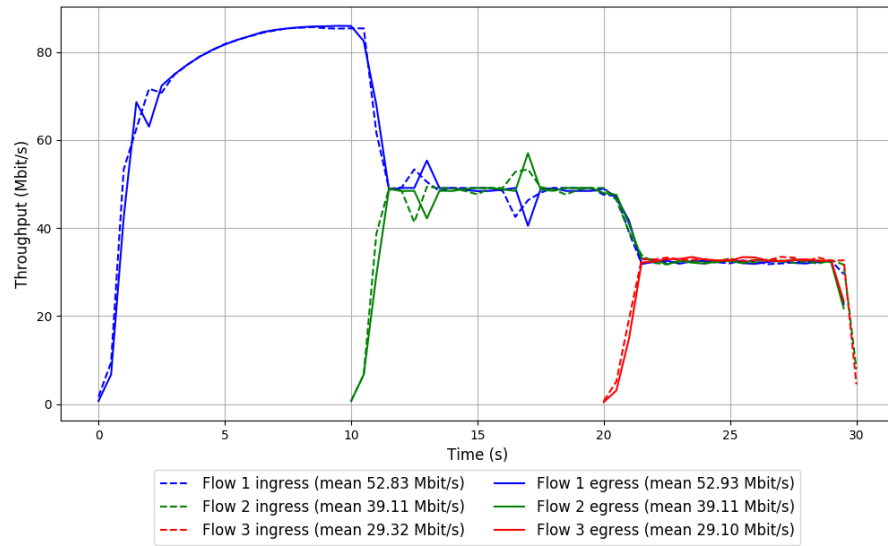
-- Flow 3:

Average throughput: 29.10 Mbit/s

95th percentile per-packet one-way delay: 116.799 ms

Loss rate: 3.73%

Run 8: Report of TCP Cubic — Data Link

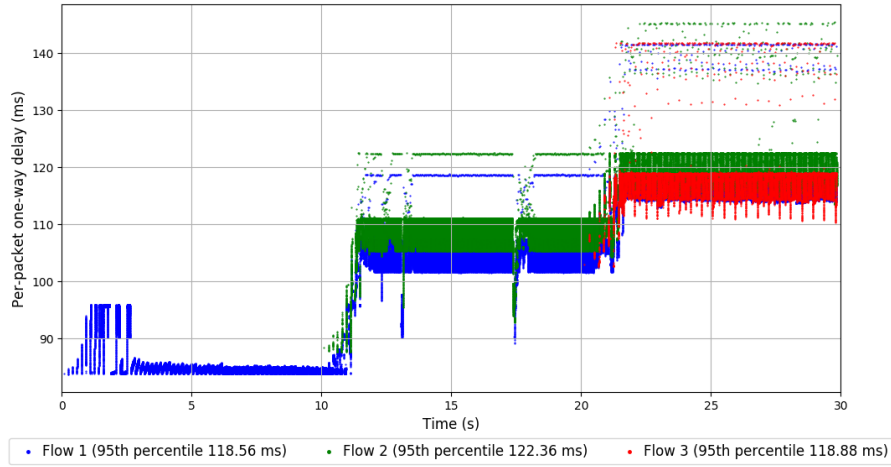
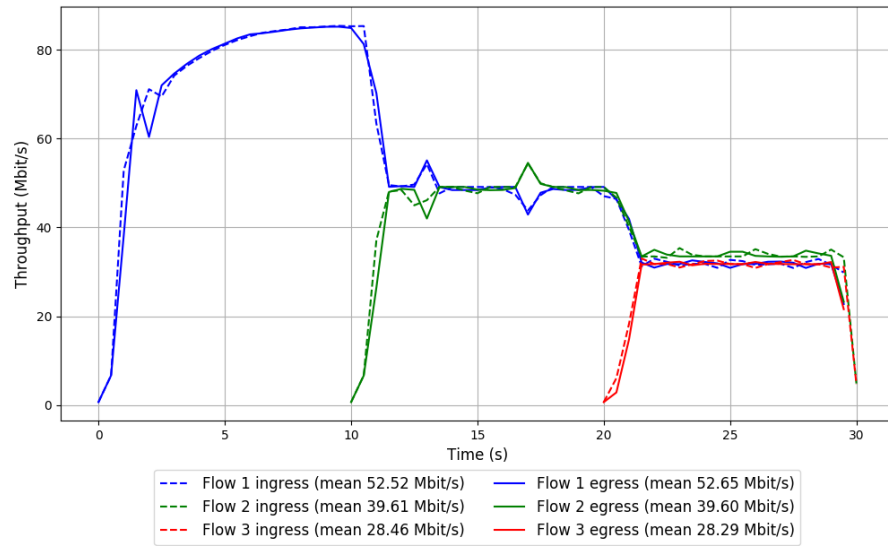


Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 10:01:36
End at: 2018-01-02 10:02:06
Local clock offset: -0.315 ms
Remote clock offset: -1.927 ms

Below is generated by plot.py at 2018-01-02 13:50:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 120.616 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 52.65 Mbit/s
95th percentile per-packet one-way delay: 118.561 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 39.60 Mbit/s
95th percentile per-packet one-way delay: 122.364 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 118.883 ms
Loss rate: 3.71%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 10:21:08

End at: 2018-01-02 10:21:38

Local clock offset: -0.333 ms

Remote clock offset: 1.979 ms

Below is generated by plot.py at 2018-01-02 13:50:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 116.187 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 114.421 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 39.16 Mbit/s

95th percentile per-packet one-way delay: 116.568 ms

Loss rate: 0.98%

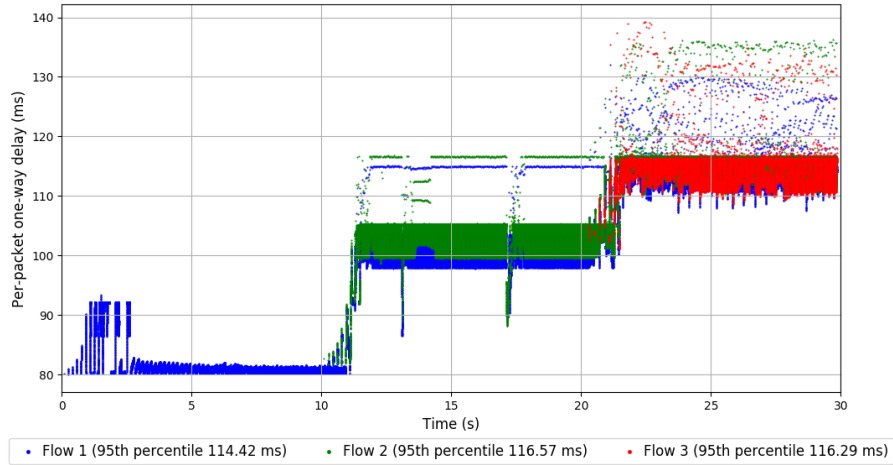
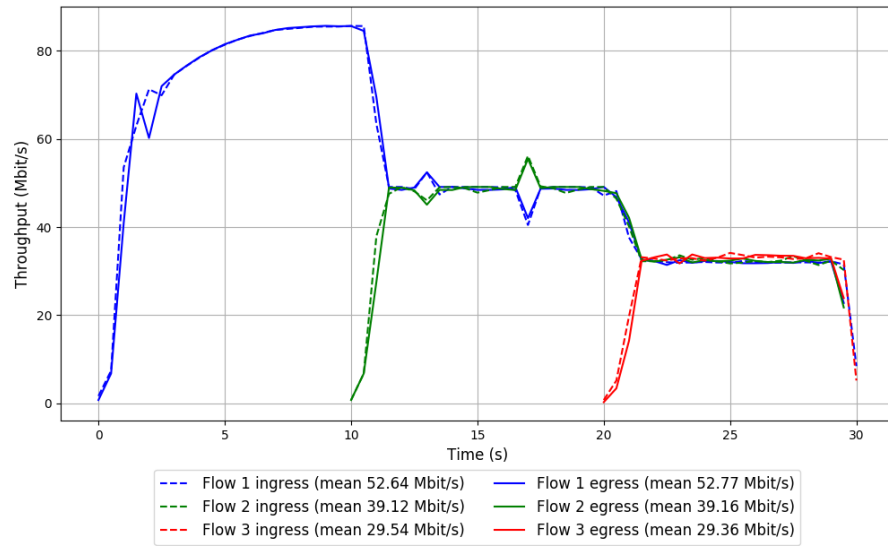
-- Flow 3:

Average throughput: 29.36 Mbit/s

95th percentile per-packet one-way delay: 116.288 ms

Loss rate: 3.71%

Run 10: Report of TCP Cubic — Data Link

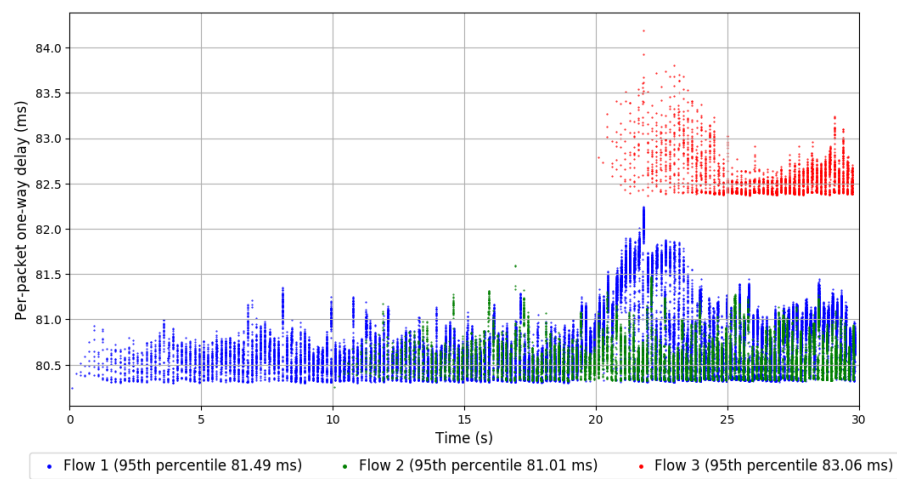
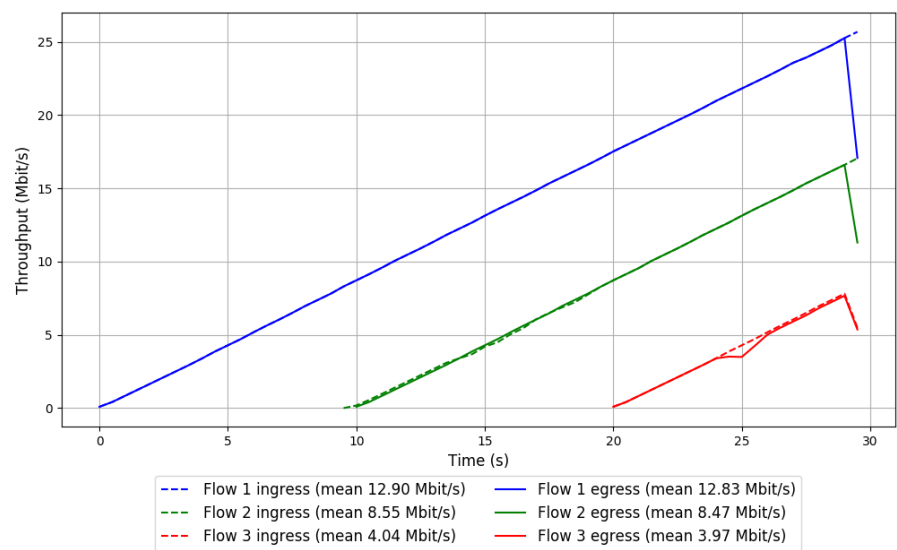


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 07:21:10
End at: 2018-01-02 07:21:40
Local clock offset: 0.54 ms
Remote clock offset: 1.33 ms

# Below is generated by plot.py at 2018-01-02 13:50:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.73 Mbit/s
95th percentile per-packet one-way delay: 82.414 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.83 Mbit/s
95th percentile per-packet one-way delay: 81.487 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 81.009 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 83.058 ms
Loss rate: 3.49%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-02 07:40:45

End at: 2018-01-02 07:41:15

Local clock offset: 0.409 ms

Remote clock offset: 0.971 ms

Below is generated by plot.py at 2018-01-02 13:50:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.41 Mbit/s

95th percentile per-packet one-way delay: 82.764 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 83.012 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 82.472 ms

Loss rate: 1.71%

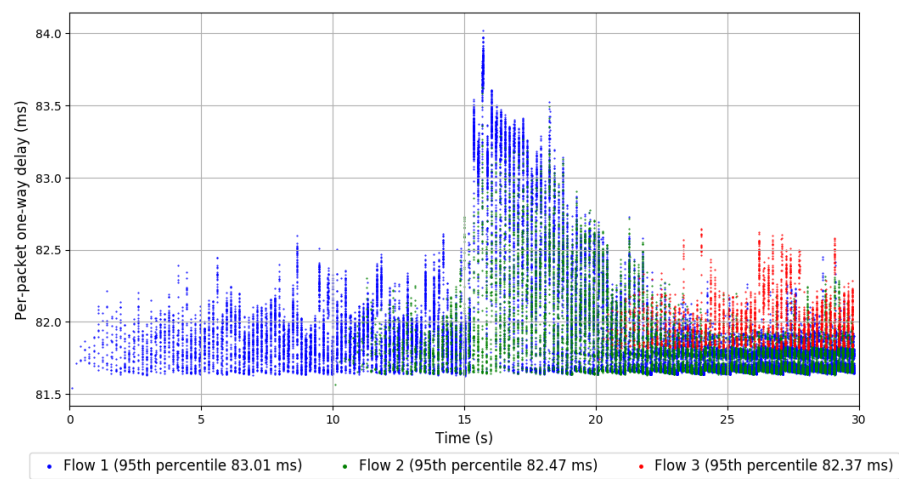
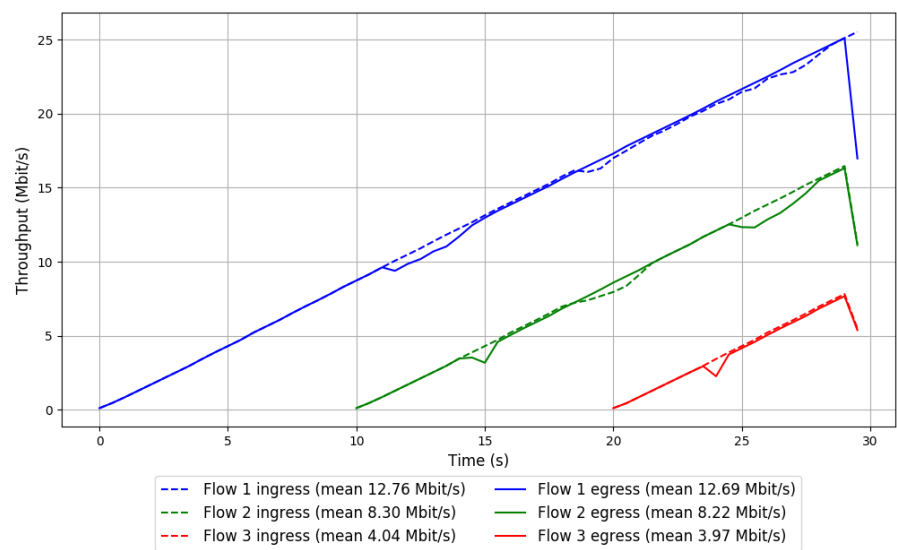
-- Flow 3:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 82.370 ms

Loss rate: 3.49%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 08:00:16

End at: 2018-01-02 08:00:46

Local clock offset: 0.348 ms

Remote clock offset: 2.307 ms

Below is generated by plot.py at 2018-01-02 13:50:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.77 Mbit/s

95th percentile per-packet one-way delay: 83.693 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 80.955 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 84.629 ms

Loss rate: 1.73%

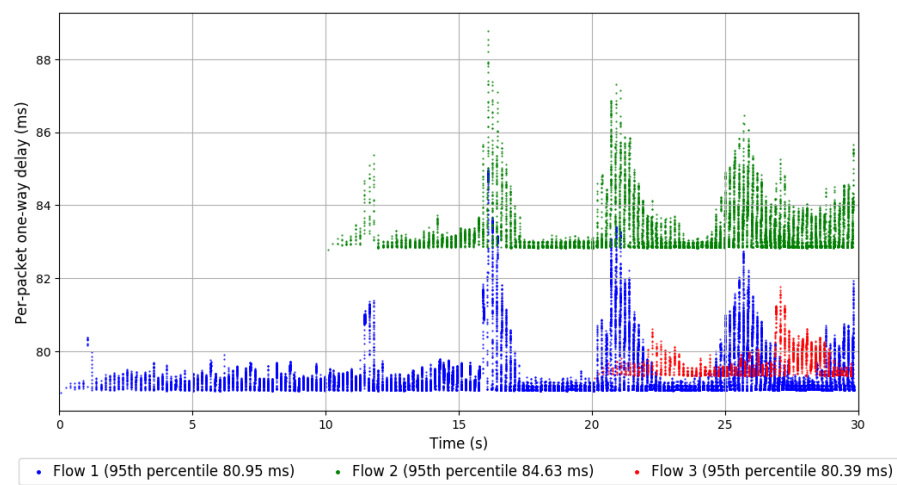
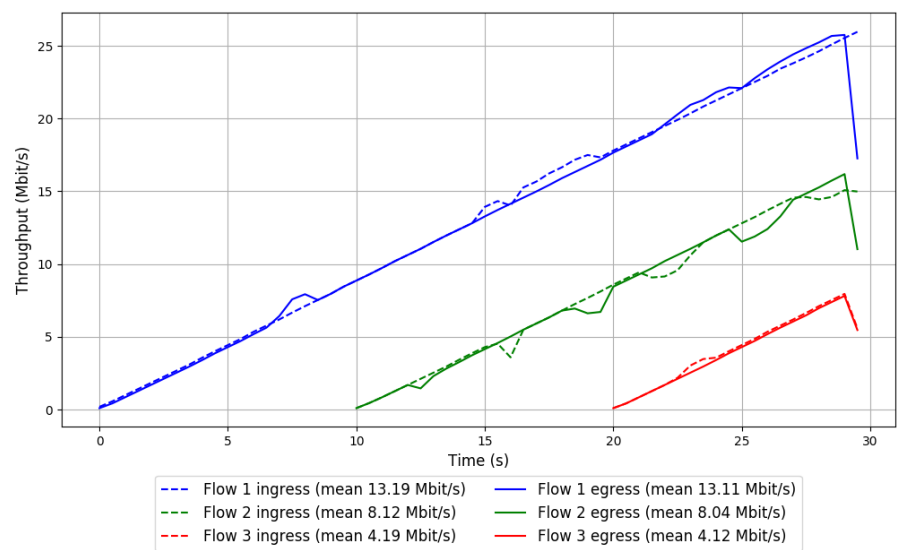
-- Flow 3:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 80.387 ms

Loss rate: 3.43%

Run 3: Report of LEDBAT — Data Link

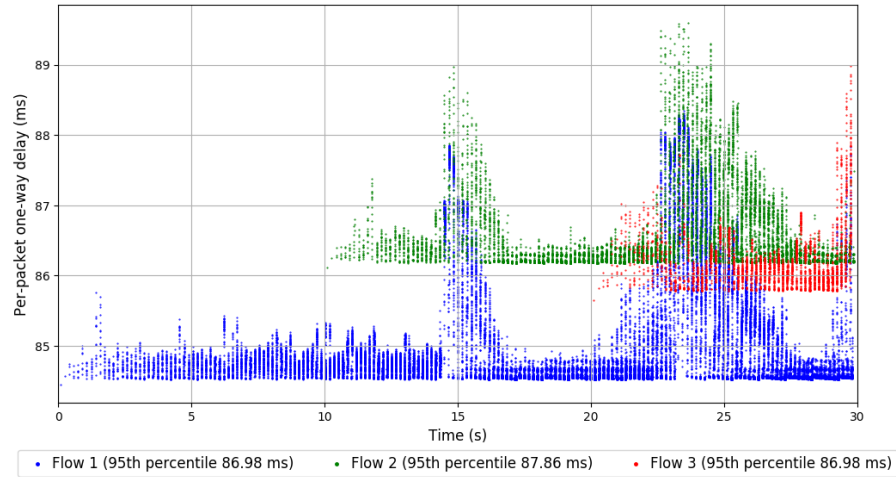
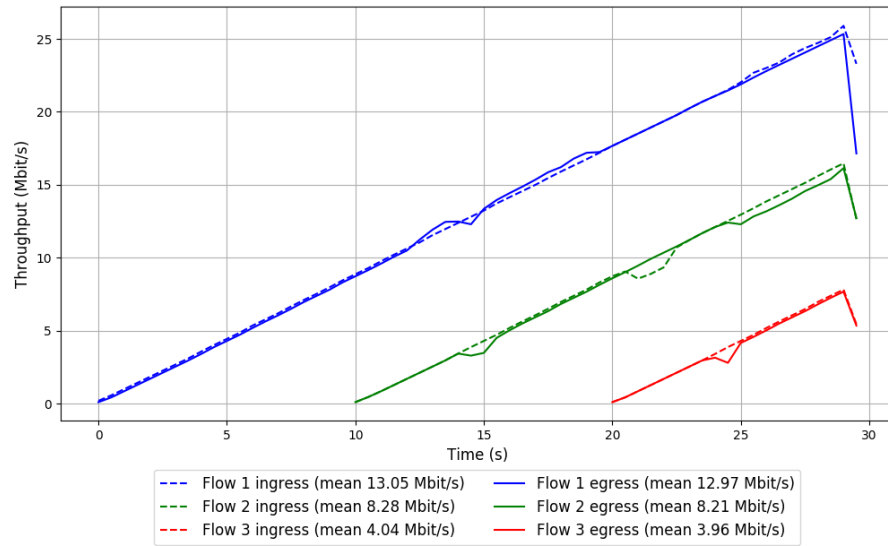


Run 4: Statistics of LEDBAT

Start at: 2018-01-02 08:19:49
End at: 2018-01-02 08:20:19
Local clock offset: 0.188 ms
Remote clock offset: -2.415 ms

Below is generated by plot.py at 2018-01-02 13:50:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 87.419 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 86.978 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 87.859 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 86.985 ms
Loss rate: 3.47%

Run 4: Report of LEDBAT — Data Link

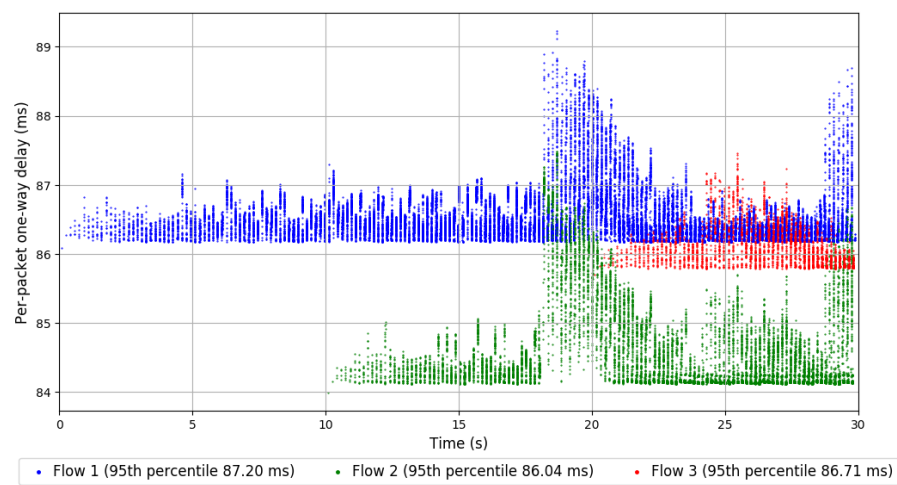
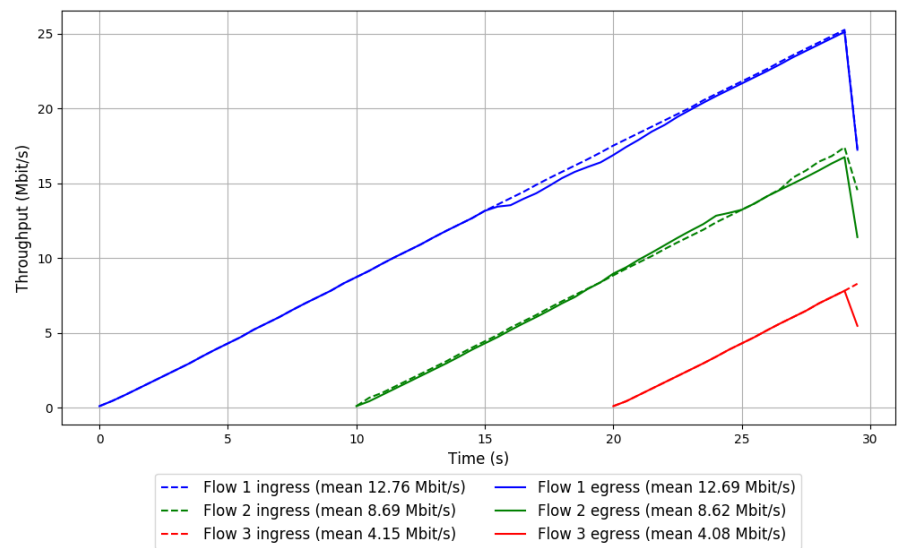


Run 5: Statistics of LEDBAT

Start at: 2018-01-02 08:39:24
End at: 2018-01-02 08:39:54
Local clock offset: 0.092 ms
Remote clock offset: -2.178 ms

Below is generated by plot.py at 2018-01-02 13:50:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 86.975 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 87.204 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 86.037 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 3.43%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 08:58:59

End at: 2018-01-02 08:59:29

Local clock offset: -0.026 ms

Remote clock offset: 1.841 ms

Below is generated by plot.py at 2018-01-02 13:50:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 85.556 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 85.800 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 85.041 ms

Loss rate: 1.70%

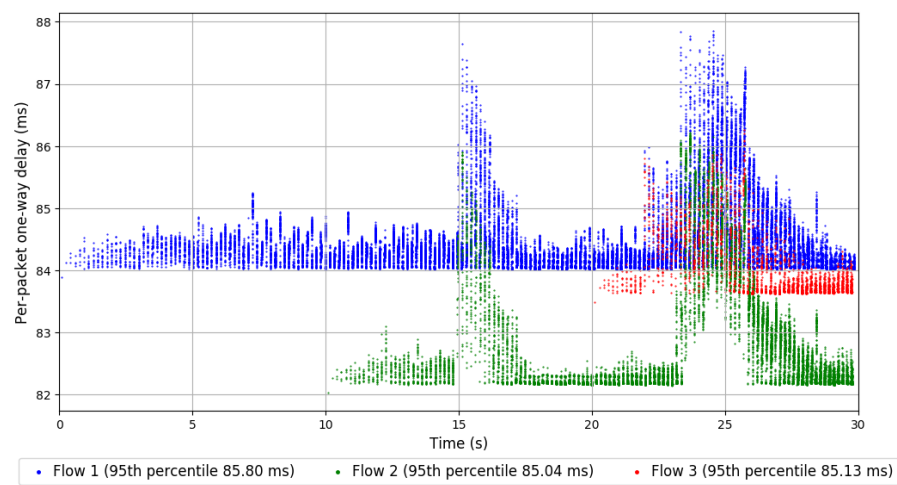
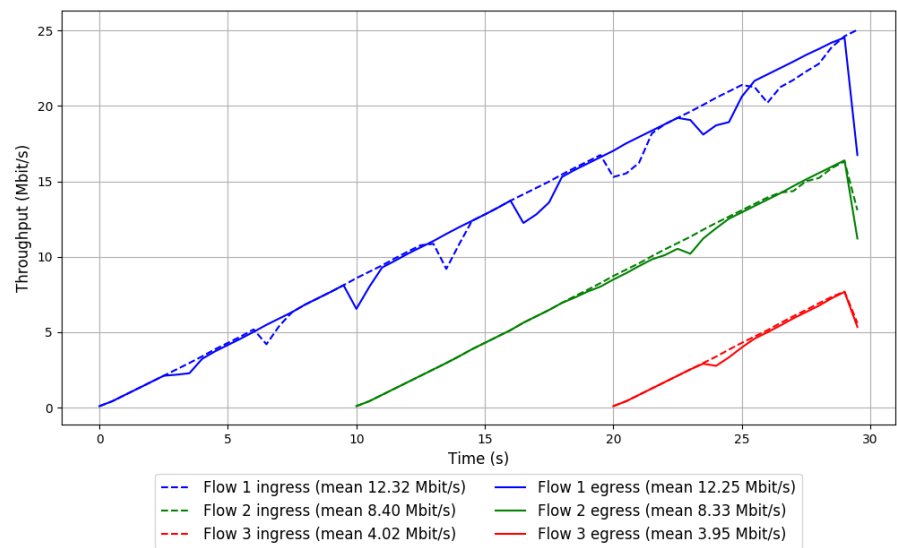
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 85.129 ms

Loss rate: 3.47%

Run 6: Report of LEDBAT — Data Link

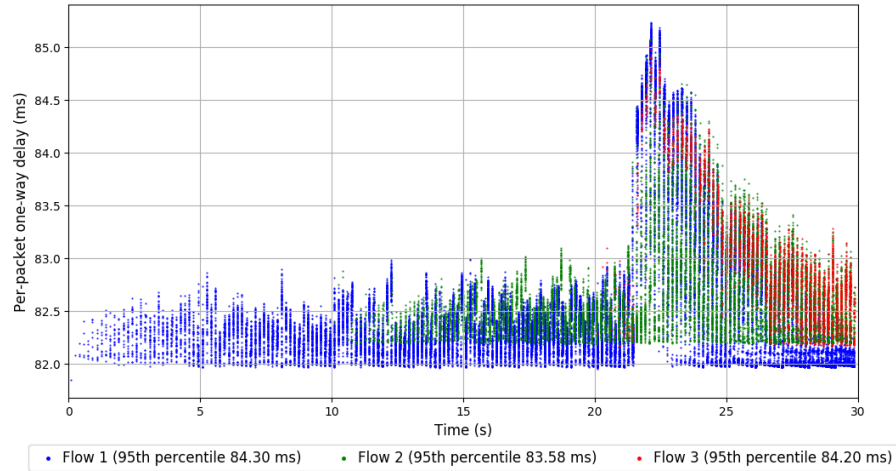
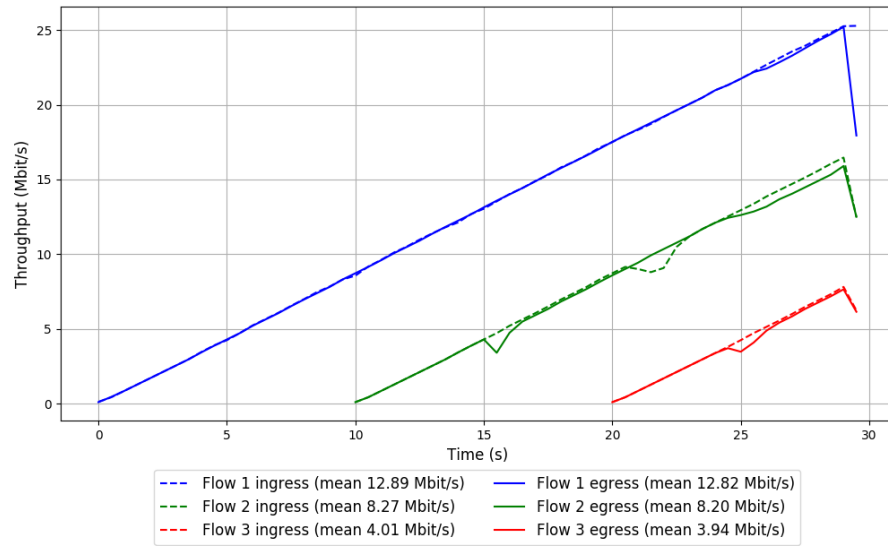


Run 7: Statistics of LEDBAT

Start at: 2018-01-02 09:18:31
End at: 2018-01-02 09:19:01
Local clock offset: -0.104 ms
Remote clock offset: 1.453 ms

Below is generated by plot.py at 2018-01-02 13:50:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.54 Mbit/s
95th percentile per-packet one-way delay: 84.089 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 84.297 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 83.580 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 84.196 ms
Loss rate: 3.45%

Run 7: Report of LEDBAT — Data Link

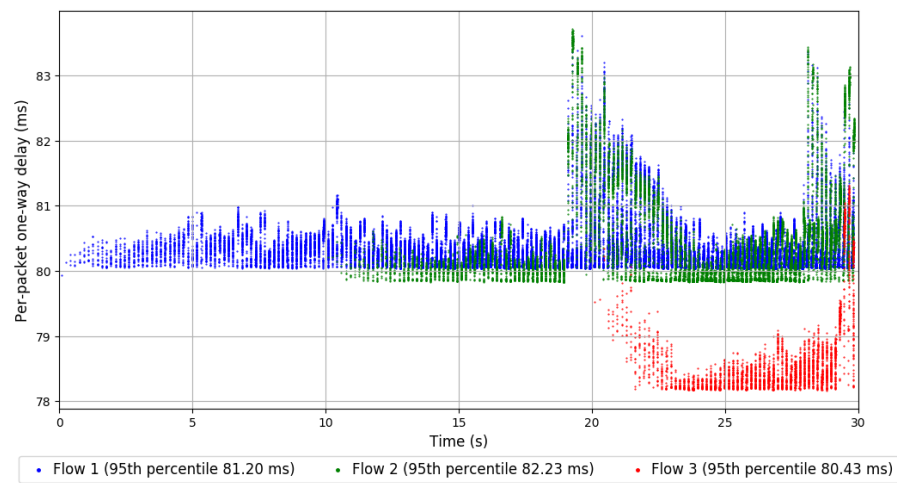
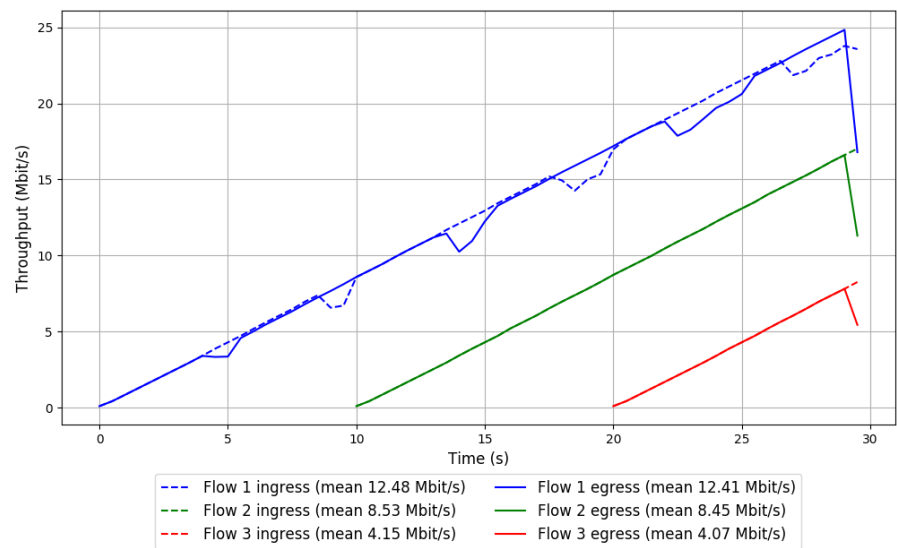


Run 8: Statistics of LEDBAT

Start at: 2018-01-02 09:38:05
End at: 2018-01-02 09:38:35
Local clock offset: -0.211 ms
Remote clock offset: 3.535 ms

Below is generated by plot.py at 2018-01-02 13:50:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.34 Mbit/s
95th percentile per-packet one-way delay: 81.538 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 81.196 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 82.226 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 80.427 ms
Loss rate: 3.43%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 09:57:42

End at: 2018-01-02 09:58:12

Local clock offset: -0.252 ms

Remote clock offset: 1.932 ms

Below is generated by plot.py at 2018-01-02 13:50:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 82.551 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 82.523 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 82.819 ms

Loss rate: 0.58%

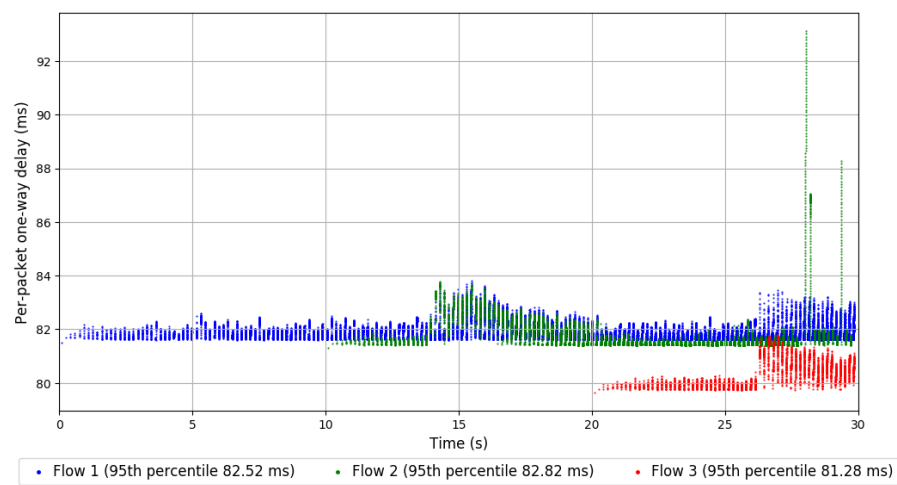
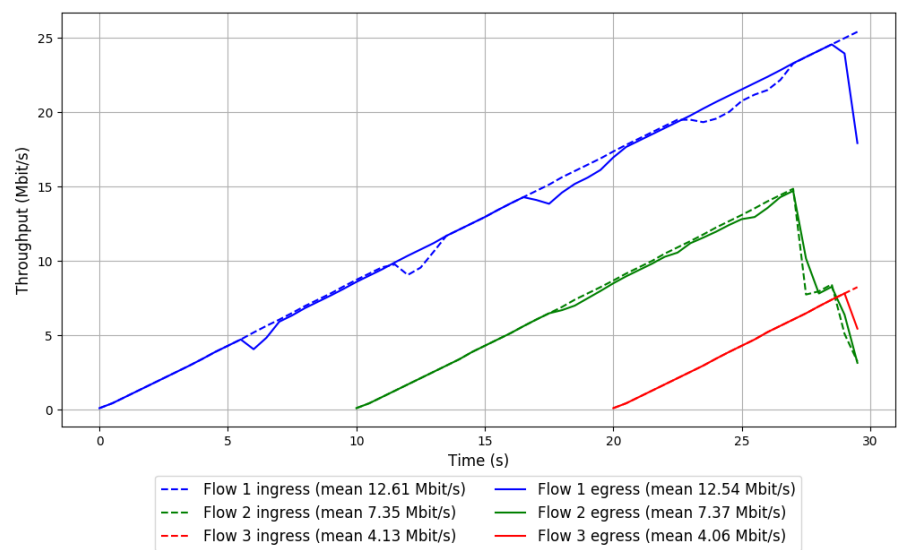
-- Flow 3:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 81.276 ms

Loss rate: 3.41%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 10:17:14

End at: 2018-01-02 10:17:44

Local clock offset: -0.401 ms

Remote clock offset: -3.12 ms

Below is generated by plot.py at 2018-01-02 13:50:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 87.135 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 12.81 Mbit/s

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

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 87.303 ms

Loss rate: 1.69%

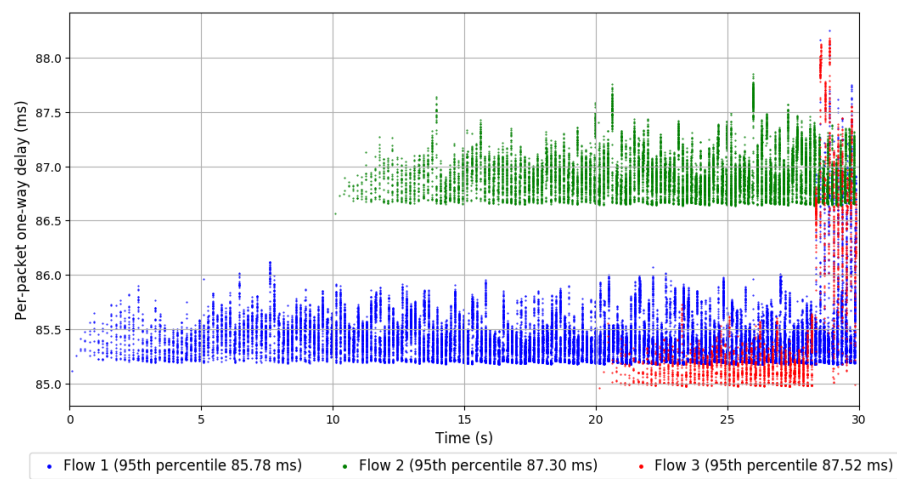
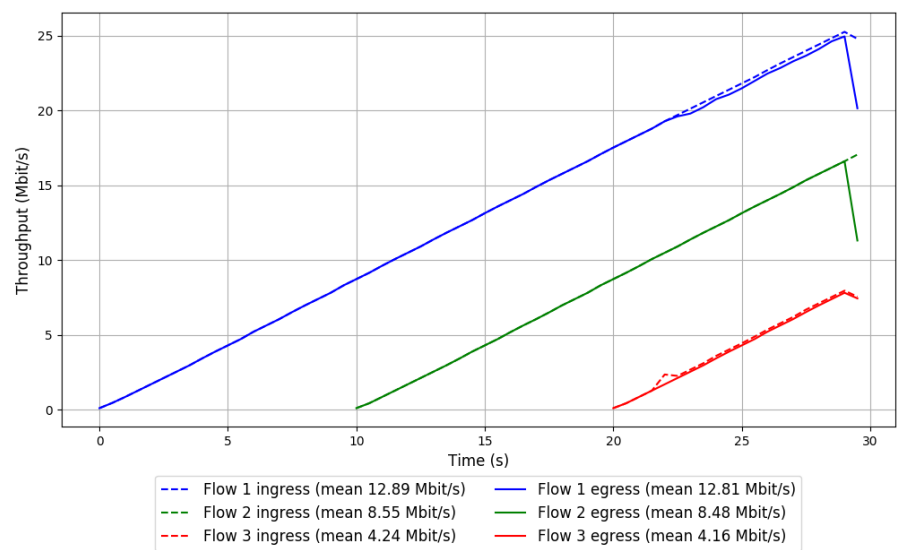
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 87.515 ms

Loss rate: 3.35%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-01-02 07:23:45

End at: 2018-01-02 07:24:15

Local clock offset: 0.535 ms

Remote clock offset: 0.599 ms

Below is generated by plot.py at 2018-01-02 13:51:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 114.754 ms

Loss rate: 5.02%

-- Flow 1:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 113.009 ms

Loss rate: 4.80%

-- Flow 2:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 115.488 ms

Loss rate: 1.20%

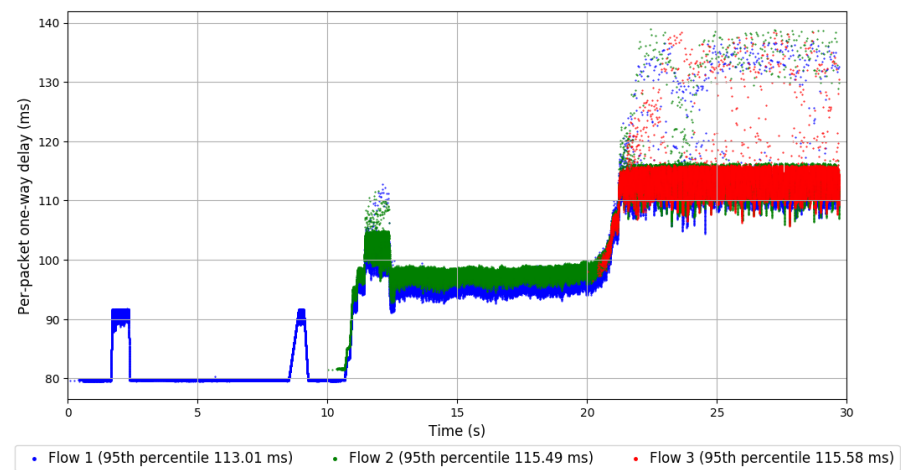
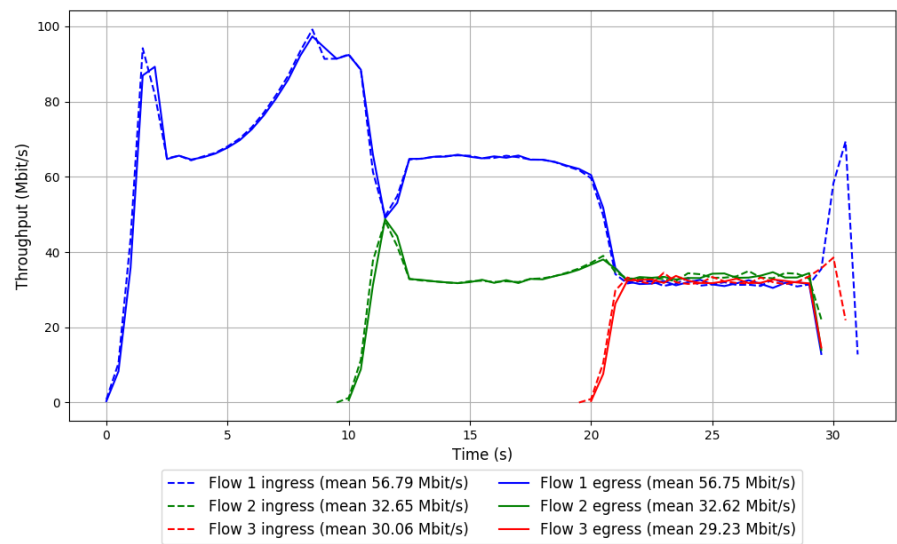
-- Flow 3:

Average throughput: 29.23 Mbit/s

95th percentile per-packet one-way delay: 115.581 ms

Loss rate: 13.73%

Run 1: Report of PCC — Data Link

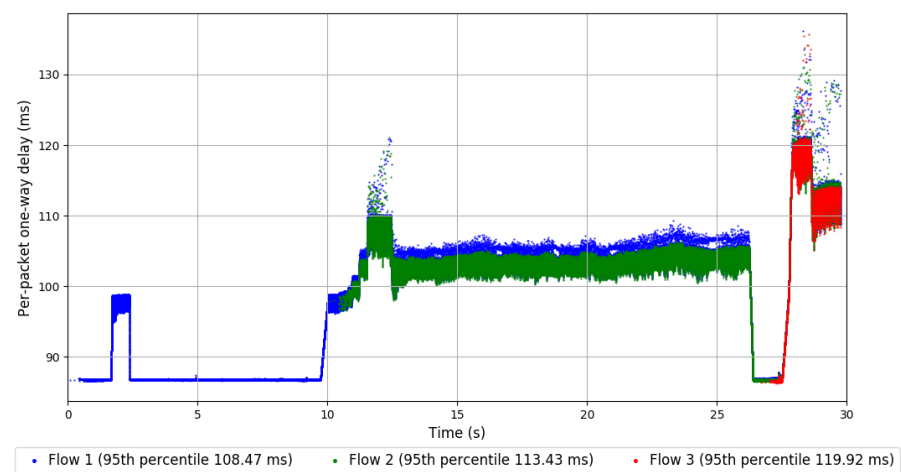
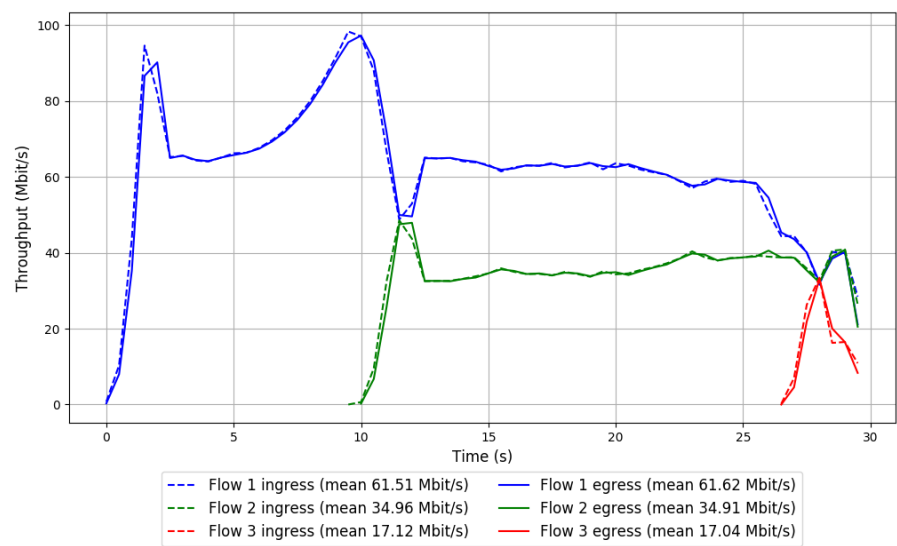


Run 2: Statistics of PCC

Start at: 2018-01-02 07:43:21
End at: 2018-01-02 07:43:51
Local clock offset: 0.471 ms
Remote clock offset: -3.866 ms

Below is generated by plot.py at 2018-01-02 13:51:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 112.399 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 61.62 Mbit/s
95th percentile per-packet one-way delay: 108.471 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 113.428 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 119.925 ms
Loss rate: 5.62%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 08:02:52

End at: 2018-01-02 08:03:22

Local clock offset: 0.269 ms

Remote clock offset: -3.73 ms

Below is generated by plot.py at 2018-01-02 13:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 109.135 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 61.94 Mbit/s

95th percentile per-packet one-way delay: 106.572 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 110.121 ms

Loss rate: 1.06%

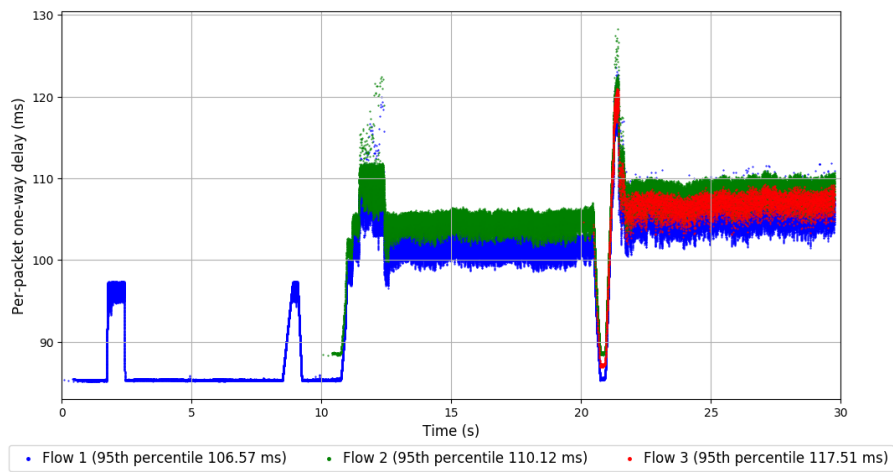
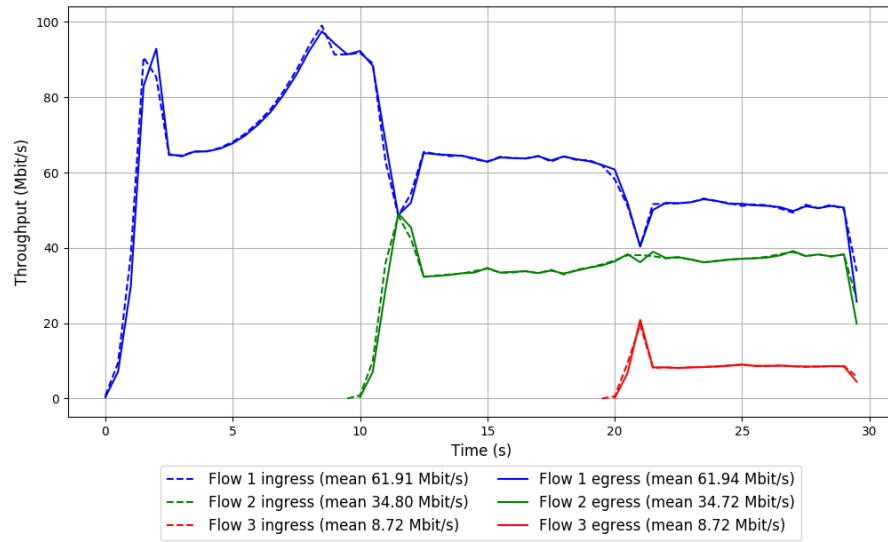
-- Flow 3:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 117.513 ms

Loss rate: 1.90%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 08:22:25

End at: 2018-01-02 08:22:55

Local clock offset: 0.11 ms

Remote clock offset: 2.486 ms

Below is generated by plot.py at 2018-01-02 13:51:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 114.204 ms

Loss rate: 4.54%

-- Flow 1:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 111.691 ms

Loss rate: 4.15%

-- Flow 2:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 115.453 ms

Loss rate: 6.55%

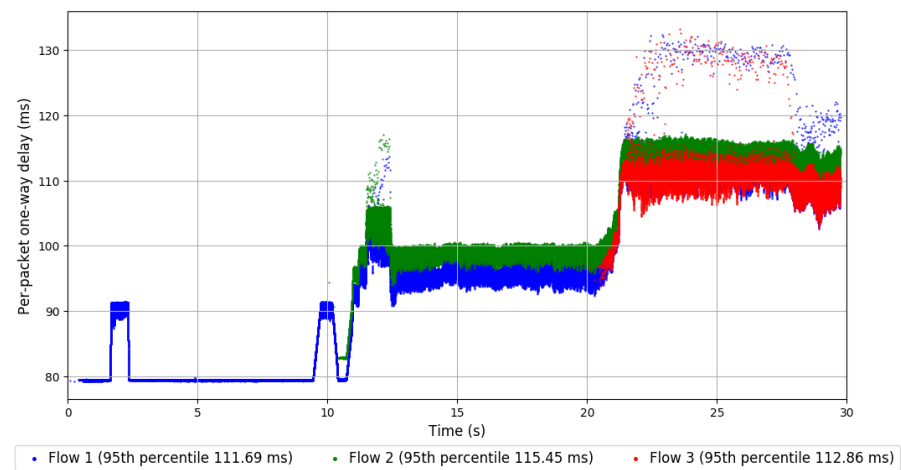
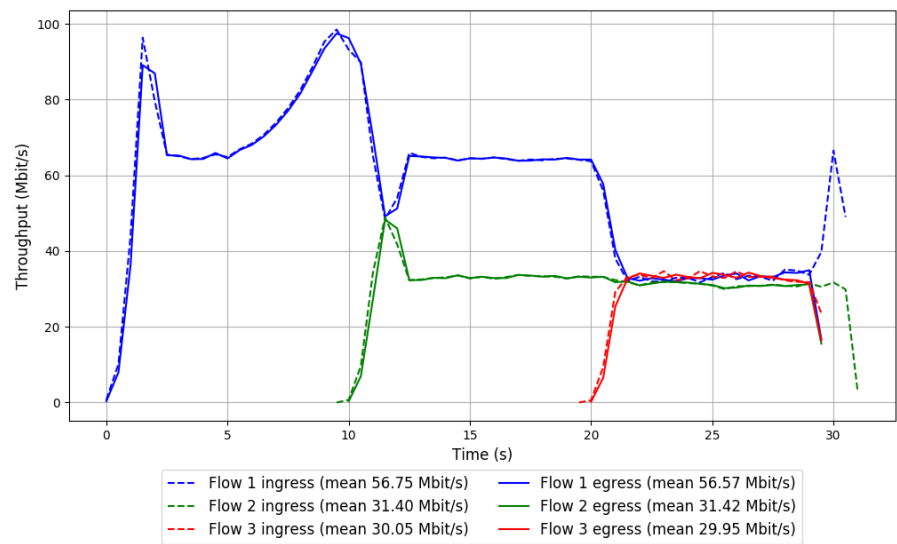
-- Flow 3:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 112.858 ms

Loss rate: 2.41%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 08:42:00

End at: 2018-01-02 08:42:30

Local clock offset: 0.073 ms

Remote clock offset: 1.857 ms

Below is generated by plot.py at 2018-01-02 13:52:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.26 Mbit/s

95th percentile per-packet one-way delay: 115.651 ms

Loss rate: 4.56%

-- Flow 1:

Average throughput: 57.57 Mbit/s

95th percentile per-packet one-way delay: 113.515 ms

Loss rate: 3.62%

-- Flow 2:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 116.172 ms

Loss rate: 7.82%

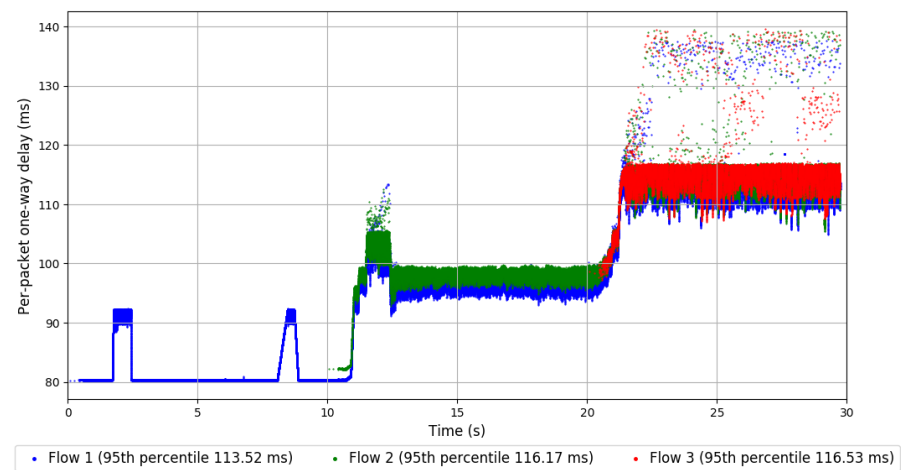
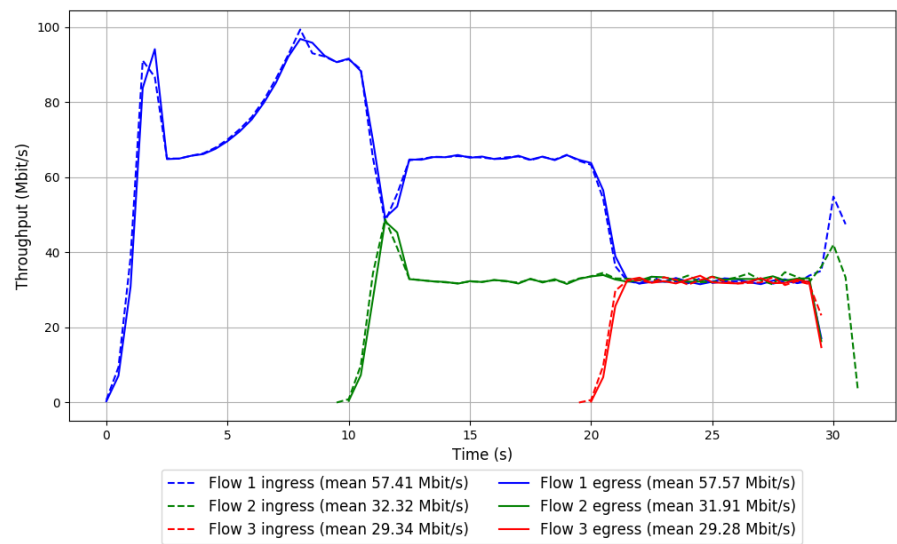
-- Flow 3:

Average throughput: 29.28 Mbit/s

95th percentile per-packet one-way delay: 116.534 ms

Loss rate: 2.61%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 09:01:35

End at: 2018-01-02 09:02:05

Local clock offset: -0.047 ms

Remote clock offset: -3.05 ms

Below is generated by plot.py at 2018-01-02 13:52:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 120.527 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 57.57 Mbit/s

95th percentile per-packet one-way delay: 119.443 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 119.815 ms

Loss rate: 2.19%

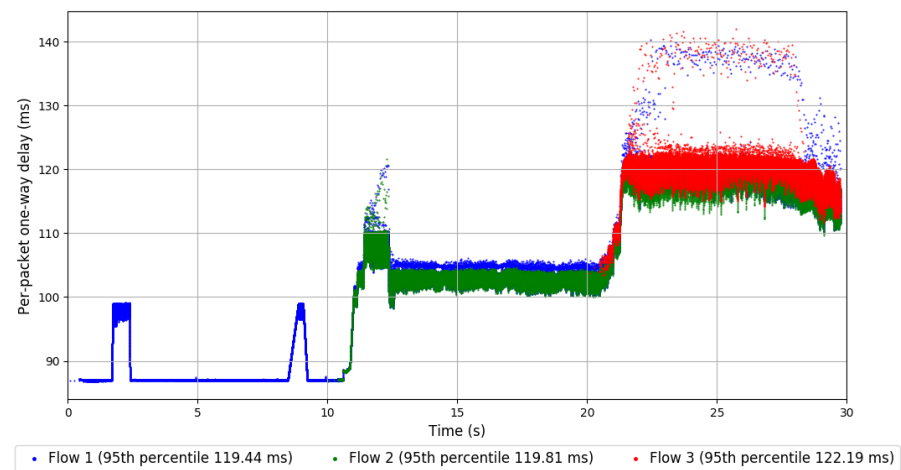
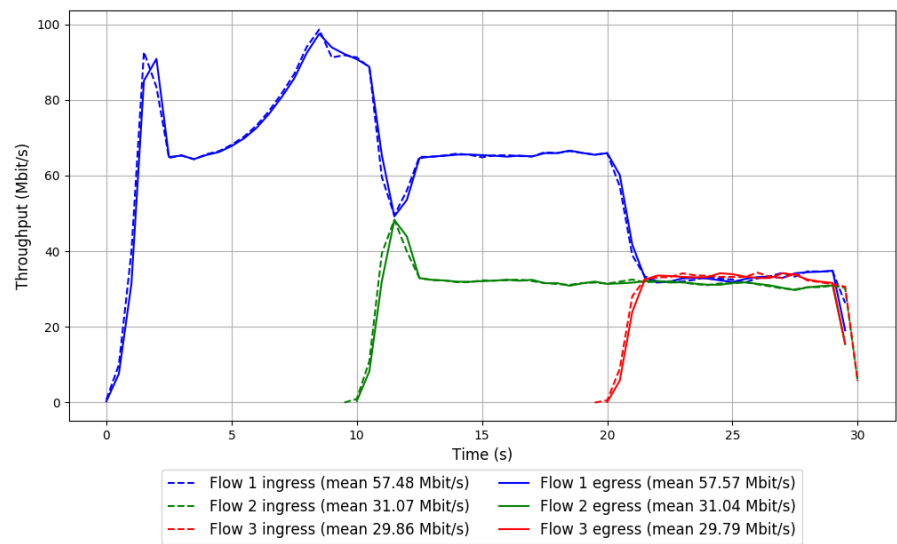
-- Flow 3:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 122.186 ms

Loss rate: 4.60%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 09:21:07

End at: 2018-01-02 09:21:37

Local clock offset: -0.175 ms

Remote clock offset: 2.76 ms

Below is generated by plot.py at 2018-01-02 13:52:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 114.866 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 112.391 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 33.55 Mbit/s

95th percentile per-packet one-way delay: 114.712 ms

Loss rate: 3.93%

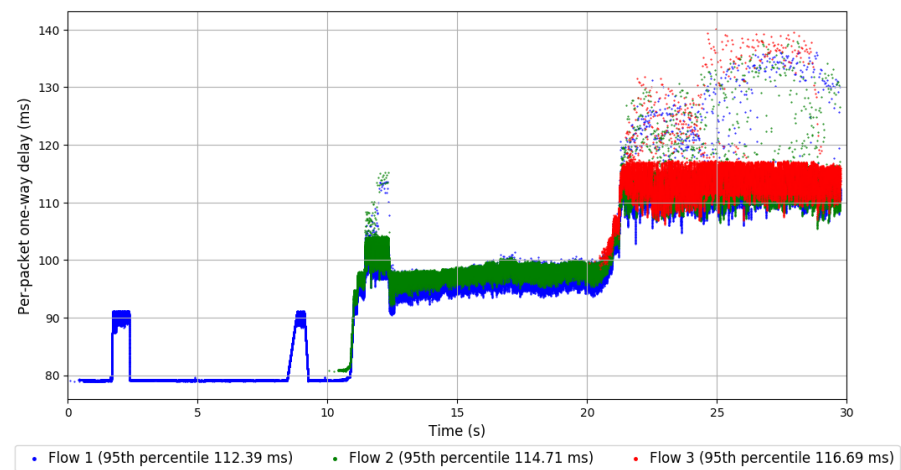
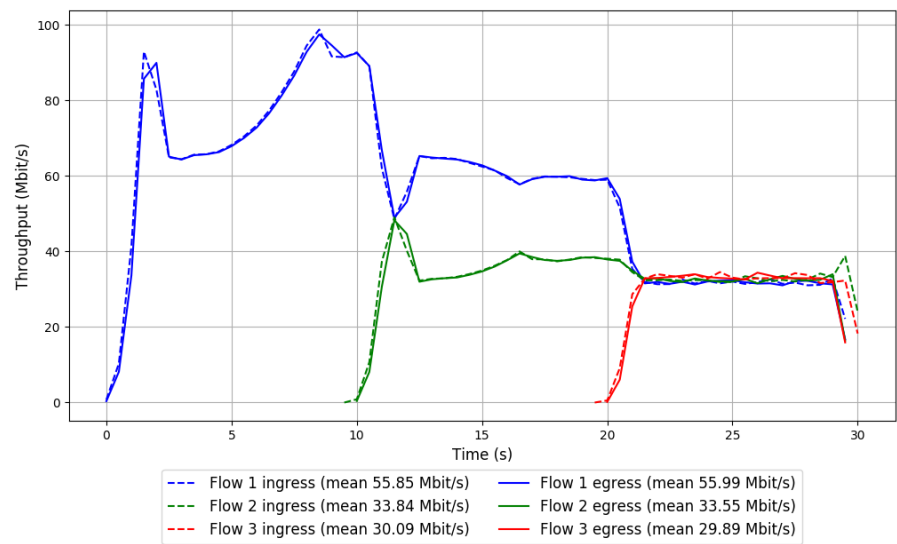
-- Flow 3:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 116.689 ms

Loss rate: 6.75%

Run 7: Report of PCC — Data Link

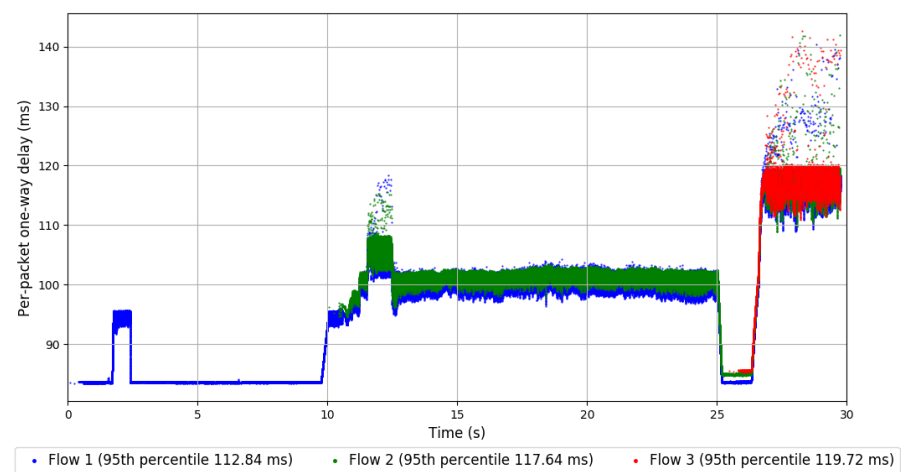
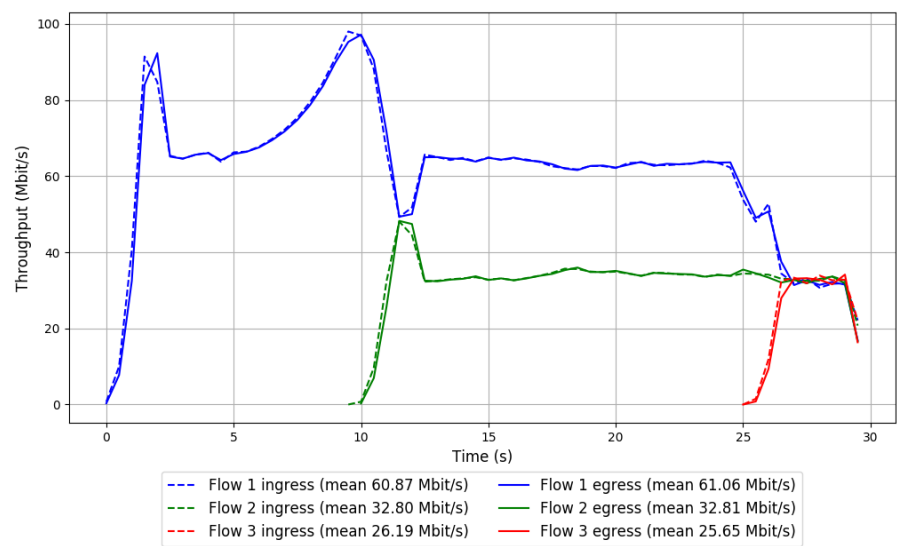


Run 8: Statistics of PCC

Start at: 2018-01-02 09:40:41
End at: 2018-01-02 09:41:11
Local clock offset: -0.157 ms
Remote clock offset: -1.673 ms

Below is generated by plot.py at 2018-01-02 13:52:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 116.766 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 61.06 Mbit/s
95th percentile per-packet one-way delay: 112.844 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 32.81 Mbit/s
95th percentile per-packet one-way delay: 117.638 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 25.65 Mbit/s
95th percentile per-packet one-way delay: 119.722 ms
Loss rate: 5.72%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 10:00:18

End at: 2018-01-02 10:00:48

Local clock offset: -0.254 ms

Remote clock offset: 3.68 ms

Below is generated by plot.py at 2018-01-02 13:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 114.290 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 56.88 Mbit/s

95th percentile per-packet one-way delay: 114.525 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 32.40 Mbit/s

95th percentile per-packet one-way delay: 114.234 ms

Loss rate: 5.35%

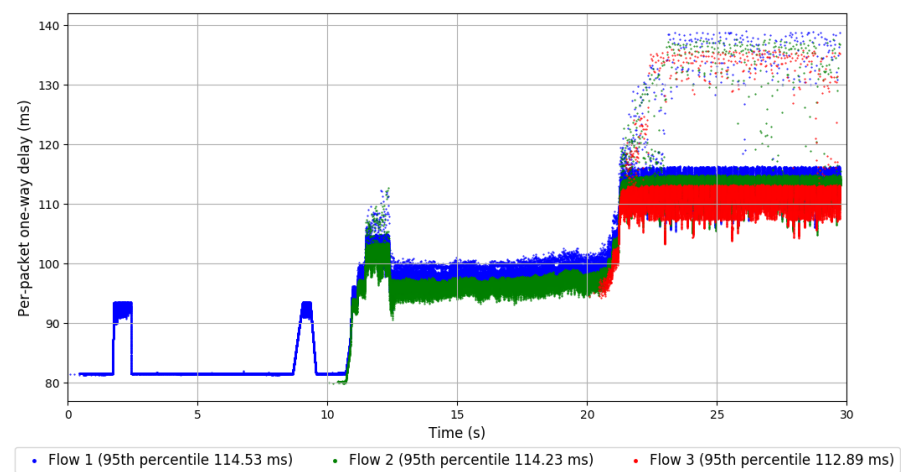
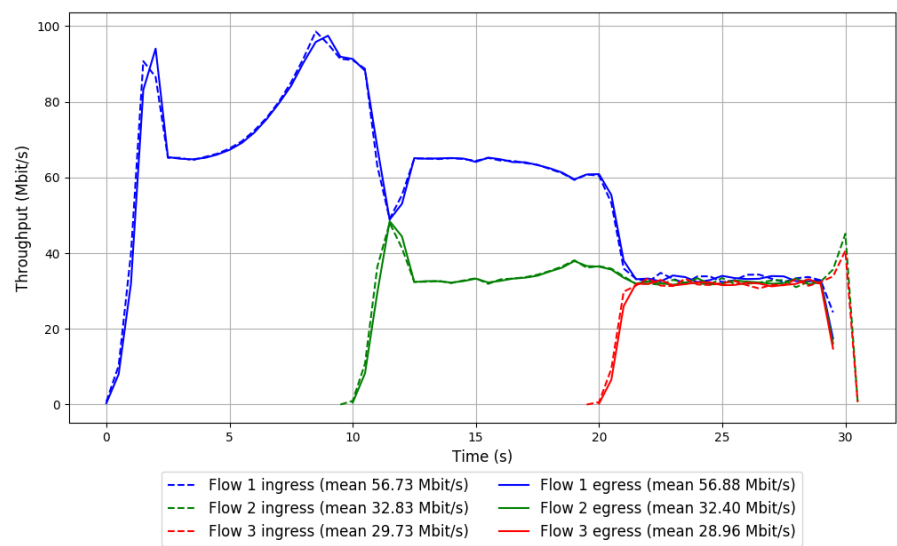
-- Flow 3:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 112.892 ms

Loss rate: 10.71%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-02 10:19:50

End at: 2018-01-02 10:20:20

Local clock offset: -0.343 ms

Remote clock offset: 2.051 ms

Below is generated by plot.py at 2018-01-02 13:52:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 115.196 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 114.324 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 115.530 ms

Loss rate: 2.84%

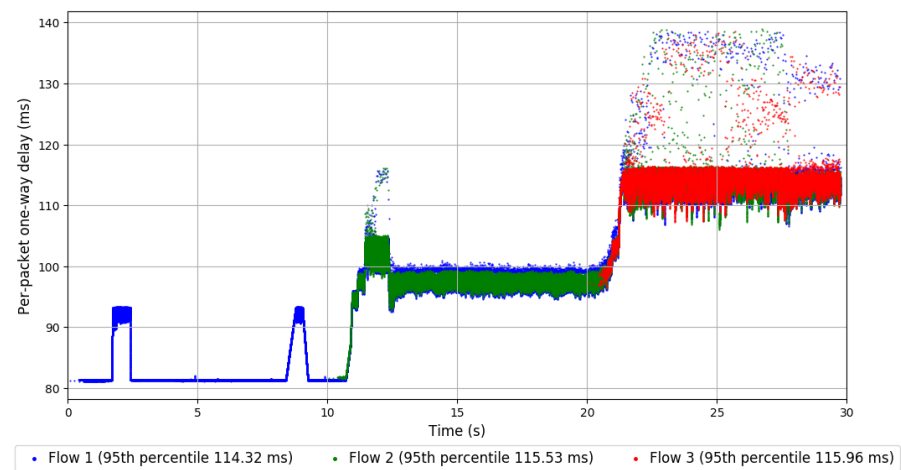
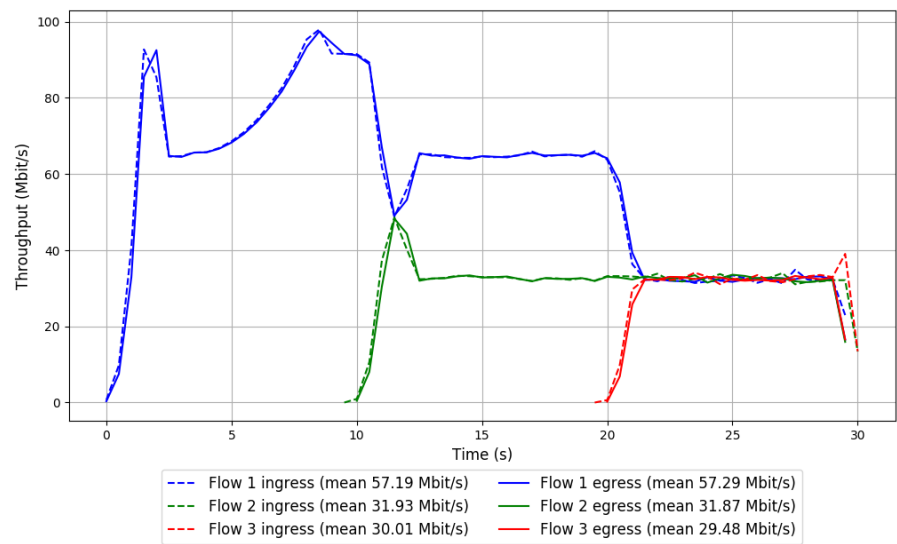
-- Flow 3:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 115.961 ms

Loss rate: 7.19%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 07:17:24

End at: 2018-01-02 07:17:54

Local clock offset: 0.547 ms

Remote clock offset: 1.172 ms

Below is generated by plot.py at 2018-01-02 13:52:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.72 Mbit/s

95th percentile per-packet one-way delay: 112.602 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 112.494 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 111.081 ms

Loss rate: 1.84%

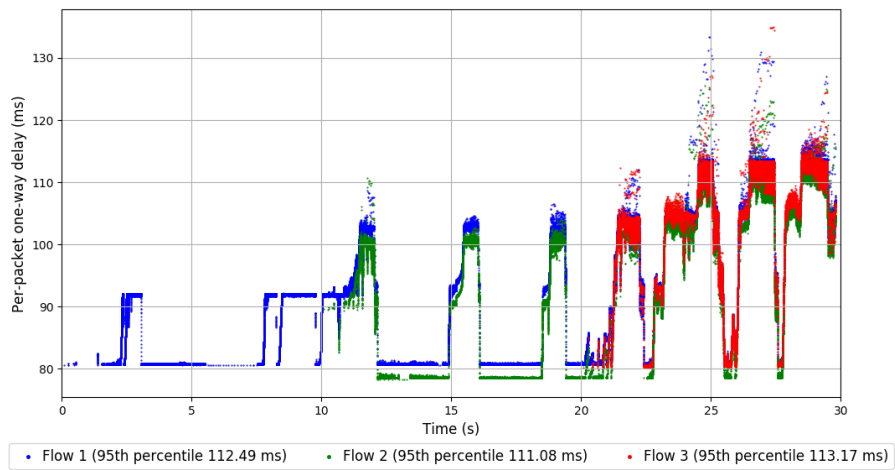
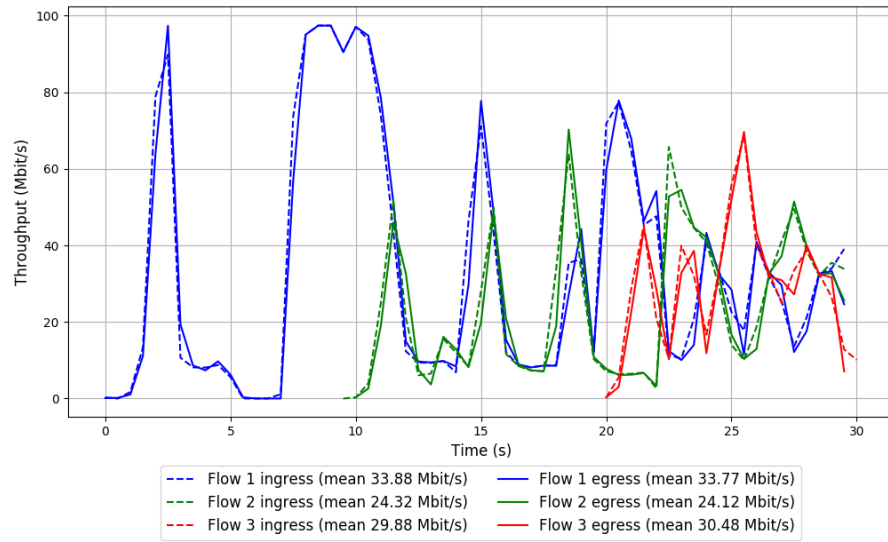
-- Flow 3:

Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 113.170 ms

Loss rate: 2.98%

Run 1: Report of QUIC Cubic — Data Link

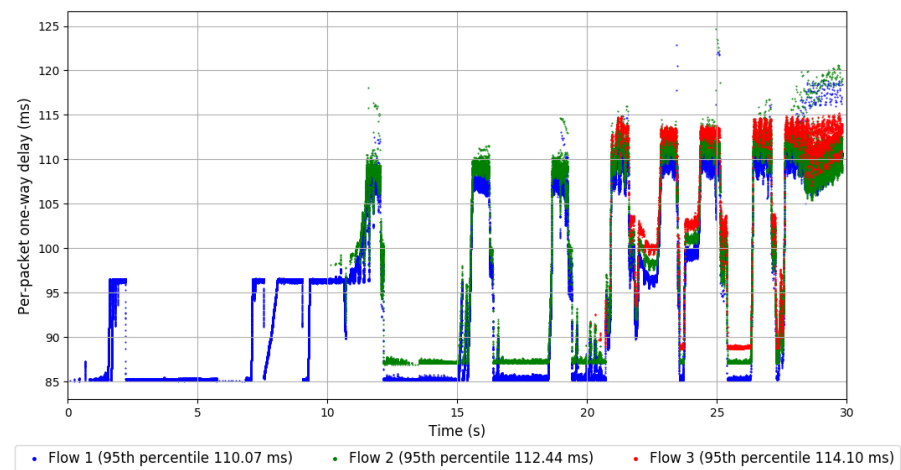
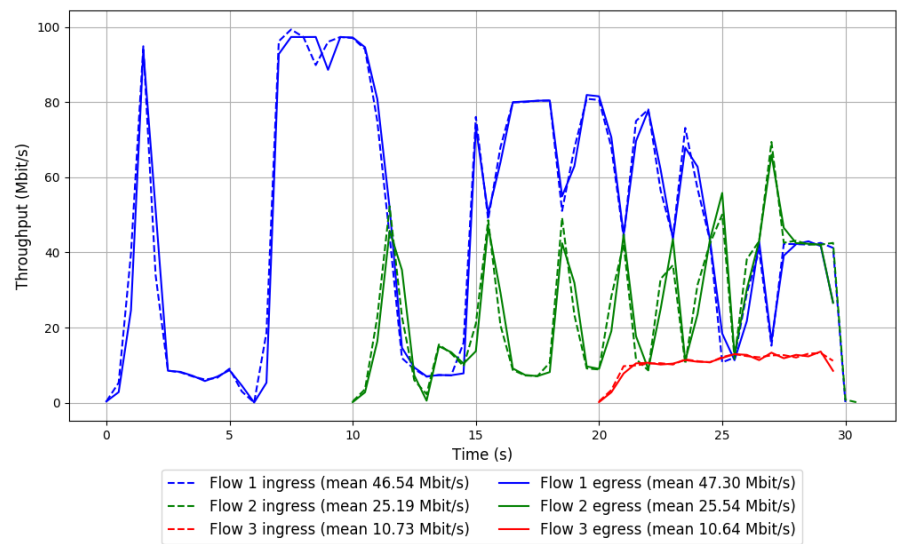


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 07:36:58
End at: 2018-01-02 07:37:28
Local clock offset: 0.498 ms
Remote clock offset: -4.523 ms

Below is generated by plot.py at 2018-01-02 13:52:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 111.956 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 47.30 Mbit/s
95th percentile per-packet one-way delay: 110.072 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 25.54 Mbit/s
95th percentile per-packet one-way delay: 112.441 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 10.64 Mbit/s
95th percentile per-packet one-way delay: 114.101 ms
Loss rate: 2.57%

Run 2: Report of QUIC Cubic — Data Link

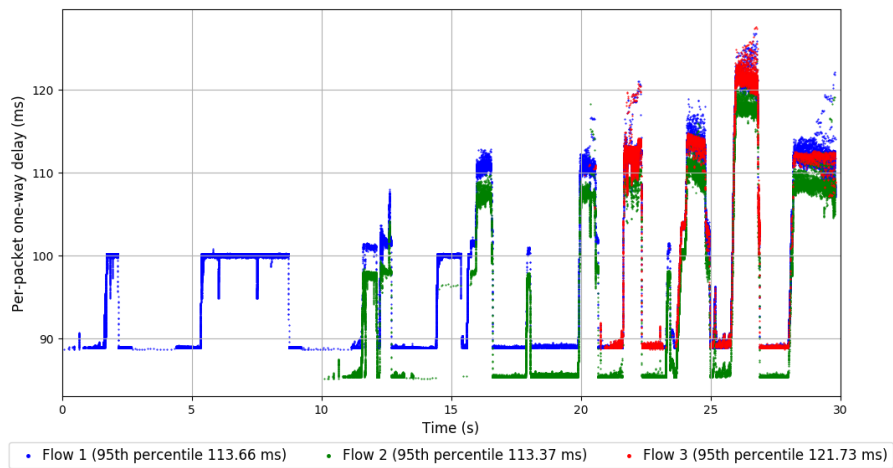
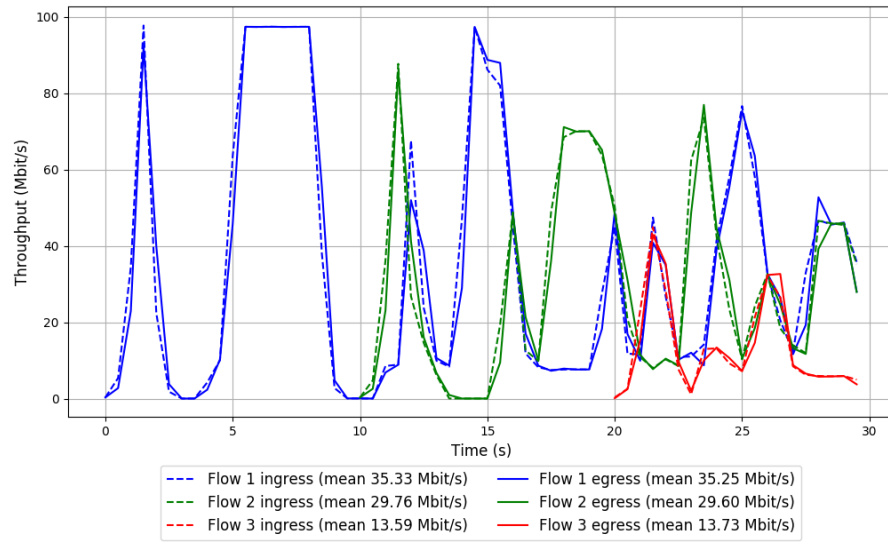


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 07:56:31
End at: 2018-01-02 07:57:01
Local clock offset: 0.362 ms
Remote clock offset: -3.888 ms

Below is generated by plot.py at 2018-01-02 13:53:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 116.468 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 35.25 Mbit/s
95th percentile per-packet one-way delay: 113.661 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 113.367 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 13.73 Mbit/s
95th percentile per-packet one-way delay: 121.730 ms
Loss rate: 0.96%

Run 3: Report of QUIC Cubic — Data Link

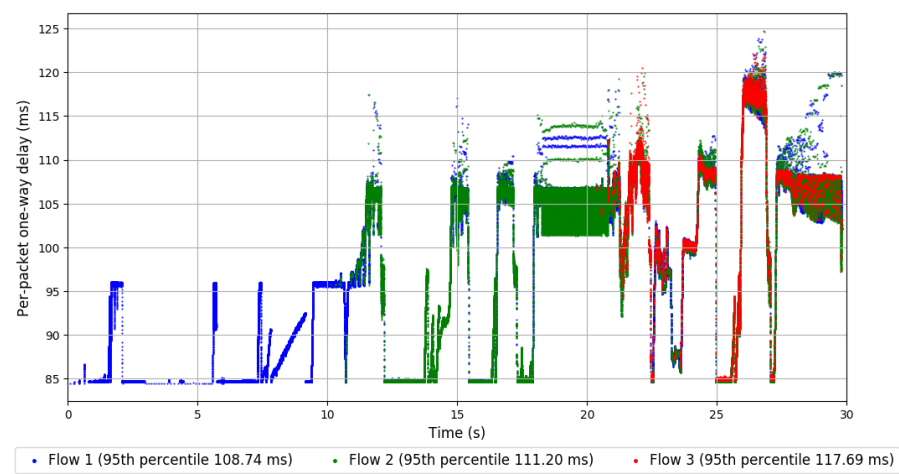
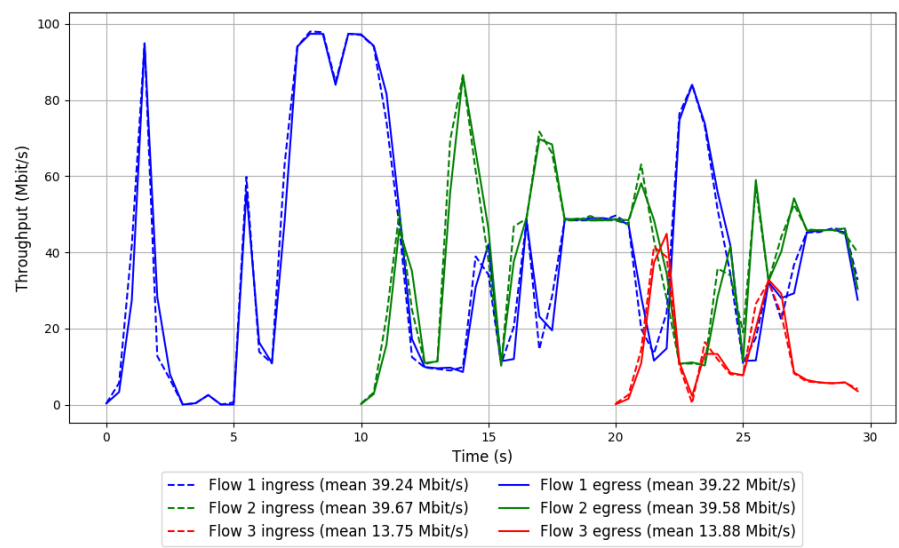


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 08:16:04
End at: 2018-01-02 08:16:34
Local clock offset: 0.206 ms
Remote clock offset: -2.821 ms

Below is generated by plot.py at 2018-01-02 13:53:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.93 Mbit/s
95th percentile per-packet one-way delay: 111.531 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 39.22 Mbit/s
95th percentile per-packet one-way delay: 108.740 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 39.58 Mbit/s
95th percentile per-packet one-way delay: 111.202 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 13.88 Mbit/s
95th percentile per-packet one-way delay: 117.695 ms
Loss rate: 0.65%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 08:35:38

End at: 2018-01-02 08:36:08

Local clock offset: 0.08 ms

Remote clock offset: 2.619 ms

Below is generated by plot.py at 2018-01-02 13:53:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.83 Mbit/s

95th percentile per-packet one-way delay: 113.263 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 113.216 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 113.470 ms

Loss rate: 0.82%

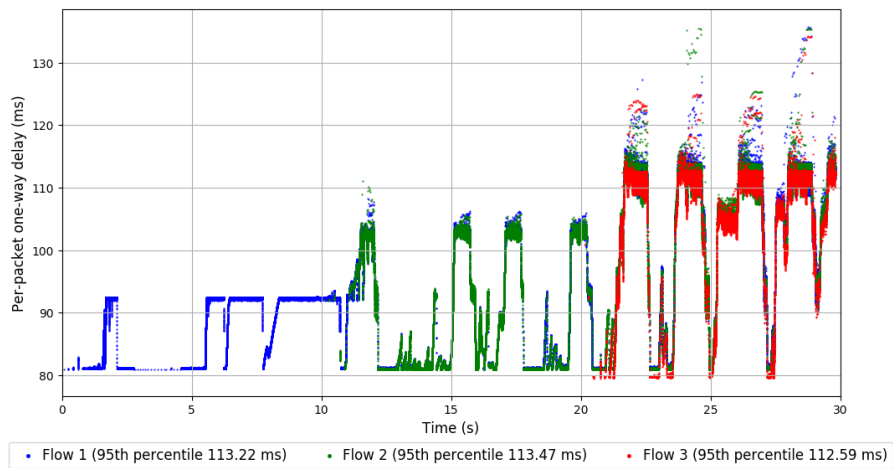
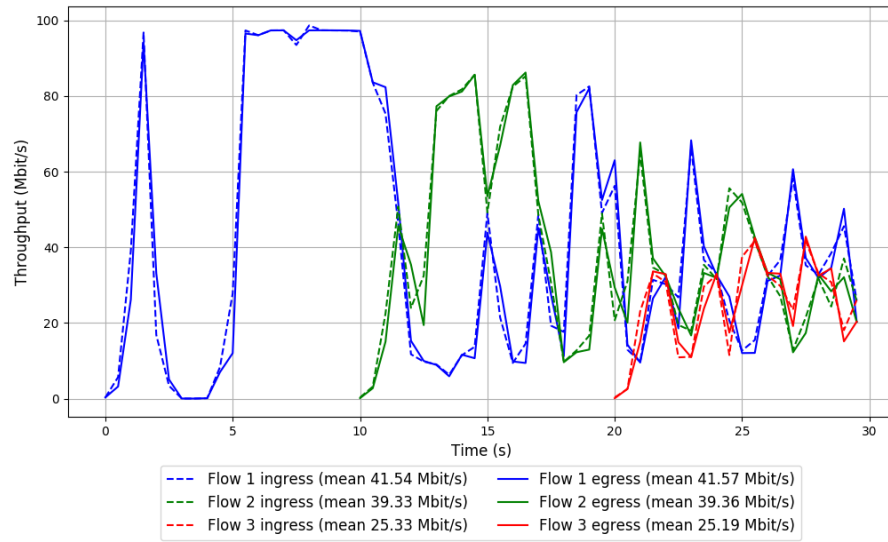
-- Flow 3:

Average throughput: 25.19 Mbit/s

95th percentile per-packet one-way delay: 112.593 ms

Loss rate: 2.59%

Run 5: Report of QUIC Cubic — Data Link

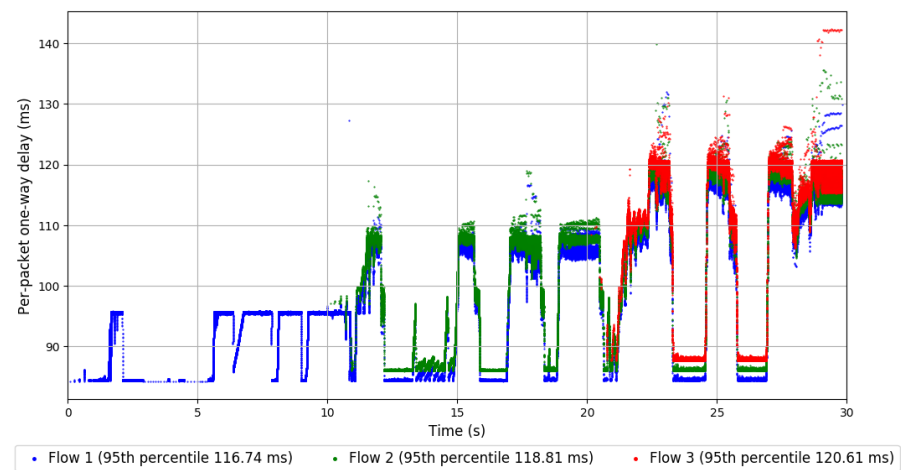
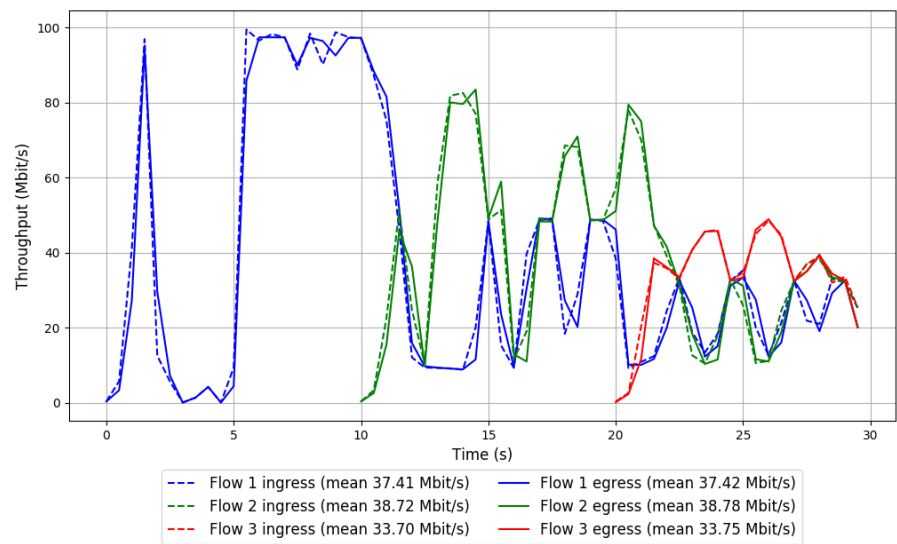


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 08:55:13
End at: 2018-01-02 08:55:43
Local clock offset: -0.062 ms
Remote clock offset: -2.116 ms

Below is generated by plot.py at 2018-01-02 13:53:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 118.978 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 116.736 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 38.78 Mbit/s
95th percentile per-packet one-way delay: 118.806 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 120.608 ms
Loss rate: 2.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 09:14:46

End at: 2018-01-02 09:15:16

Local clock offset: -0.111 ms

Remote clock offset: 2.375 ms

Below is generated by plot.py at 2018-01-02 13:54:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 107.975 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 35.52 Mbit/s

95th percentile per-packet one-way delay: 106.780 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 38.28 Mbit/s

95th percentile per-packet one-way delay: 108.645 ms

Loss rate: 0.30%

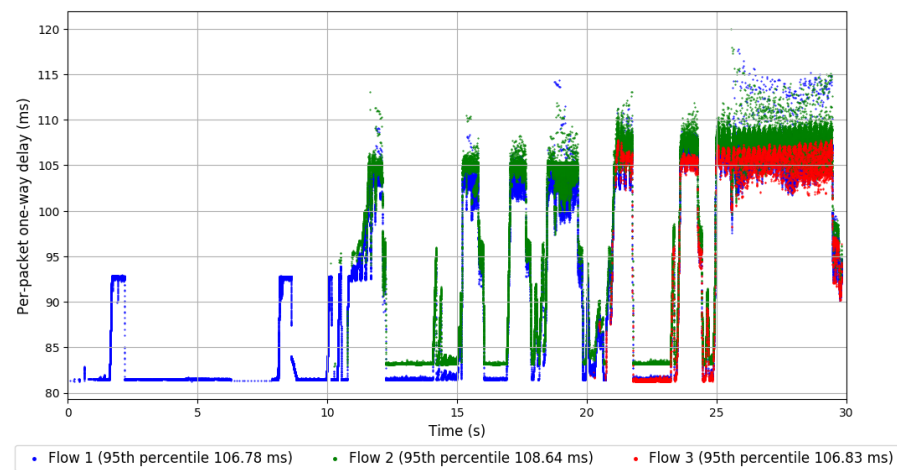
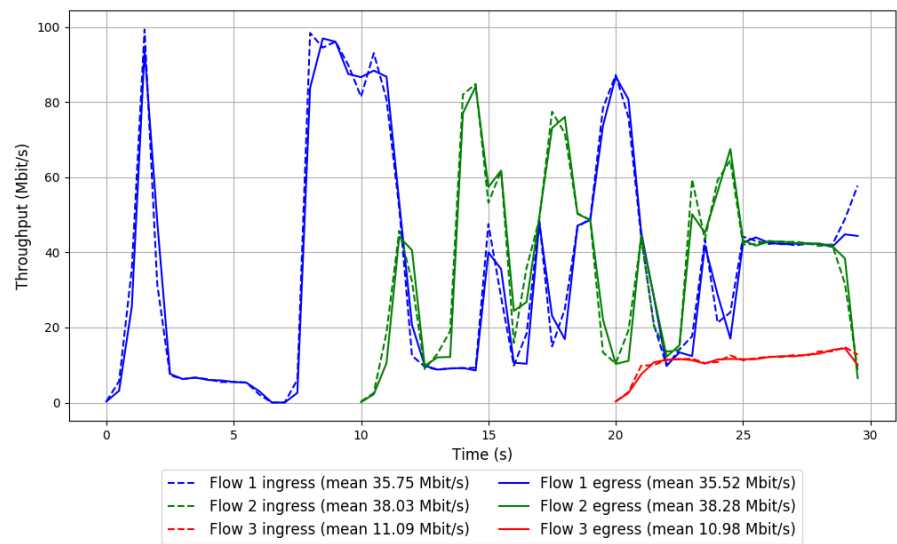
-- Flow 3:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 106.828 ms

Loss rate: 2.66%

Run 7: Report of QUIC Cubic — Data Link

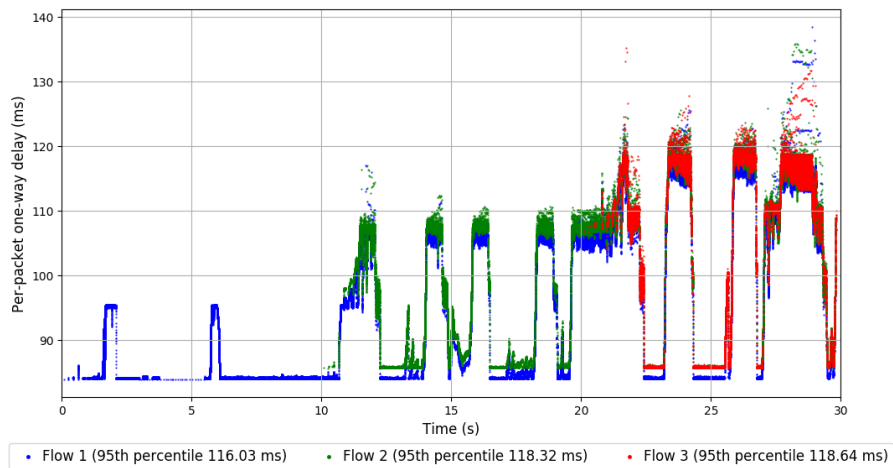
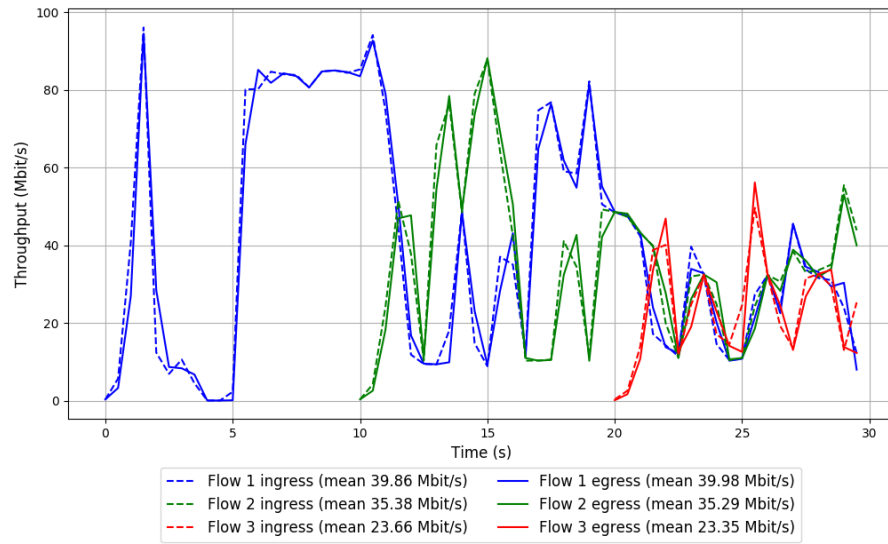


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 09:34:18
End at: 2018-01-02 09:34:48
Local clock offset: -0.144 ms
Remote clock offset: -2.106 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.98 Mbit/s
95th percentile per-packet one-way delay: 117.926 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 39.98 Mbit/s
95th percentile per-packet one-way delay: 116.031 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 118.320 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 118.640 ms
Loss rate: 3.32%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 09:53:53

End at: 2018-01-02 09:54:23

Local clock offset: -0.232 ms

Remote clock offset: 3.414 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.79 Mbit/s

95th percentile per-packet one-way delay: 111.398 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 105.306 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 112.426 ms

Loss rate: 1.80%

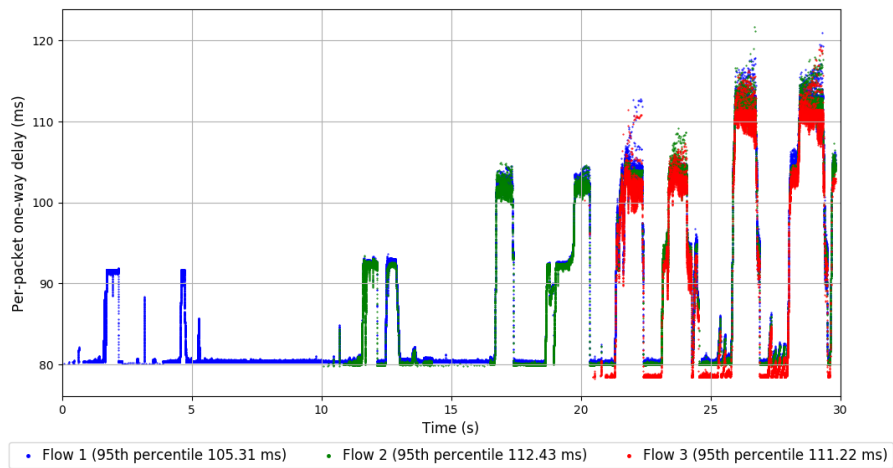
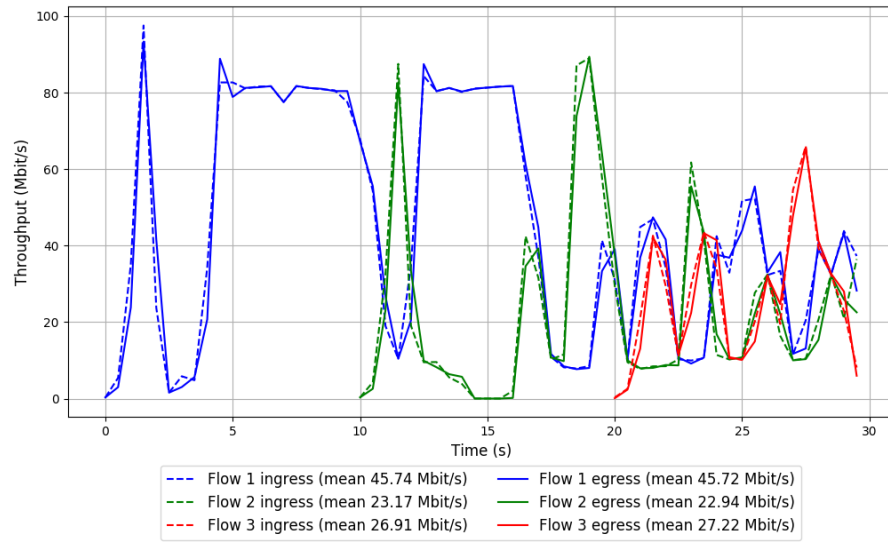
-- Flow 3:

Average throughput: 27.22 Mbit/s

95th percentile per-packet one-way delay: 111.218 ms

Loss rate: 0.75%

Run 9: Report of QUIC Cubic — Data Link

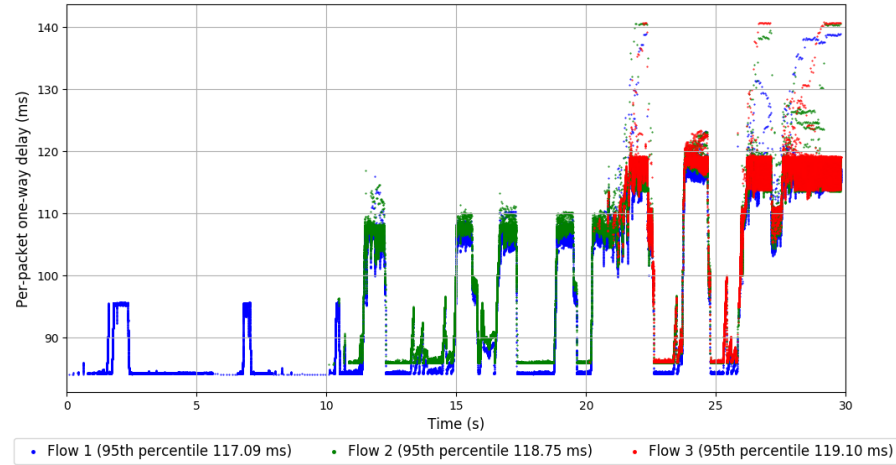
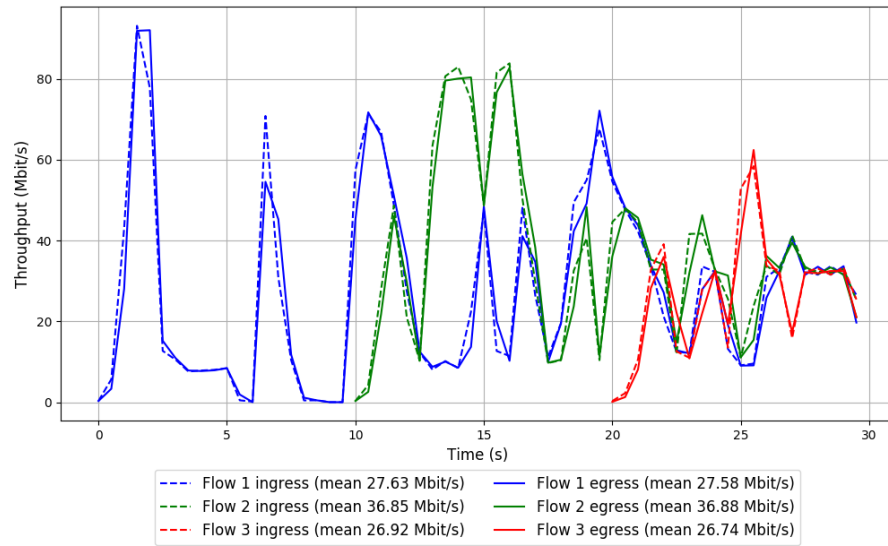


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 10:13:30
End at: 2018-01-02 10:14:00
Local clock offset: -0.304 ms
Remote clock offset: -2.259 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.75 Mbit/s
95th percentile per-packet one-way delay: 118.742 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 117.092 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 36.88 Mbit/s
95th percentile per-packet one-way delay: 118.753 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 119.097 ms
Loss rate: 2.36%

Run 10: Report of QUIC Cubic — Data Link

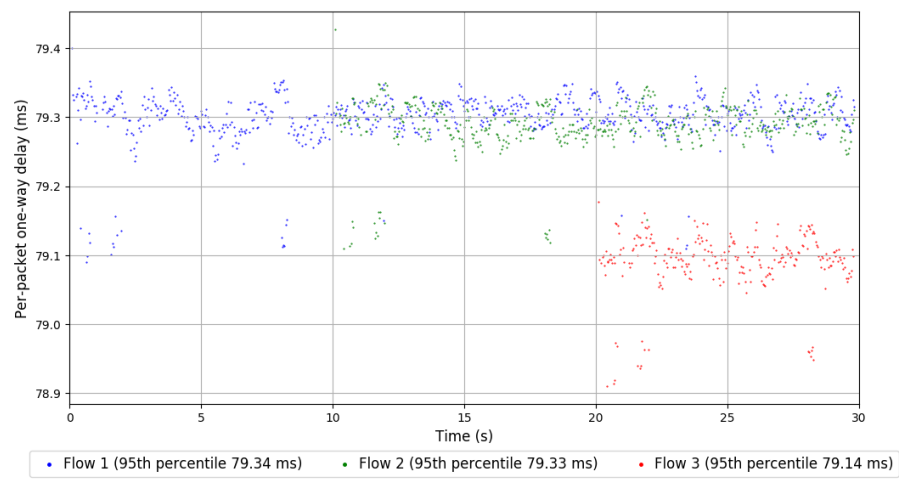
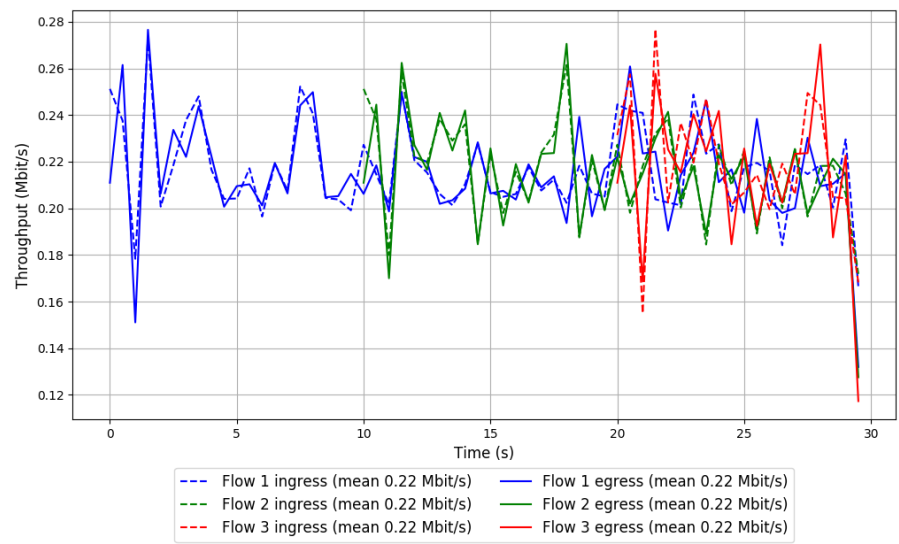


```
Run 1: Statistics of SReAM

Start at: 2018-01-02 07:16:10
End at: 2018-01-02 07:16:40
Local clock offset: 0.573 ms
Remote clock offset: 0.722 ms

# Below is generated by plot.py at 2018-01-02 13:54:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.334 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.339 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.330 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.143 ms
Loss rate: 1.53%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-01-02 07:35:45

End at: 2018-01-02 07:36:15

Local clock offset: 0.47 ms

Remote clock offset: 2.022 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 80.486 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.495 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.108 ms

Loss rate: 1.05%

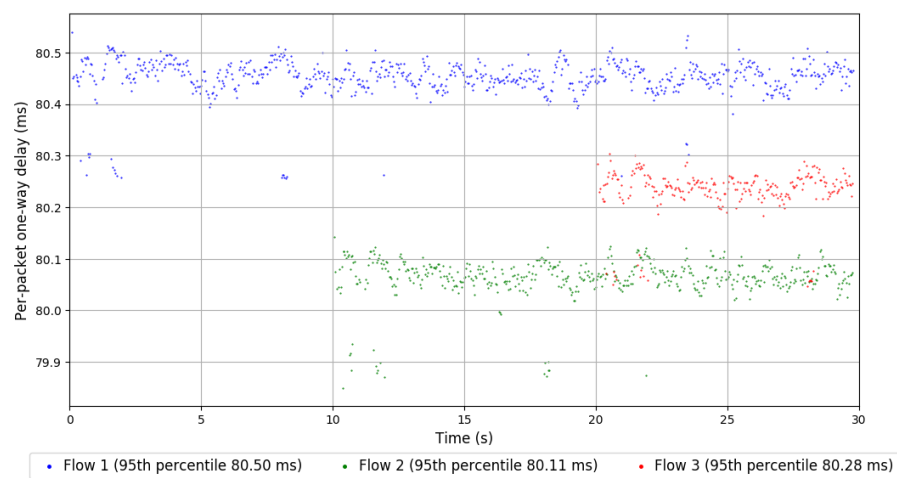
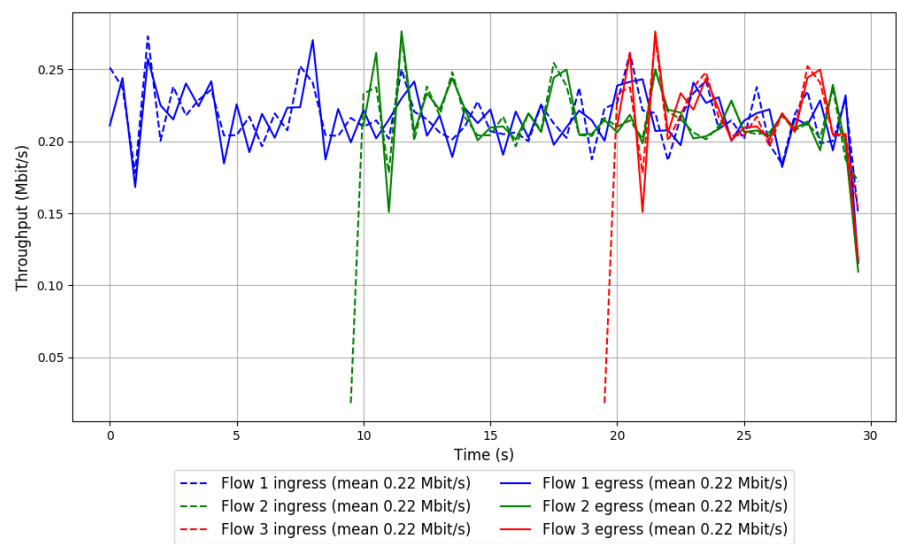
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.279 ms

Loss rate: 1.53%

Run 2: Report of SReAM — Data Link

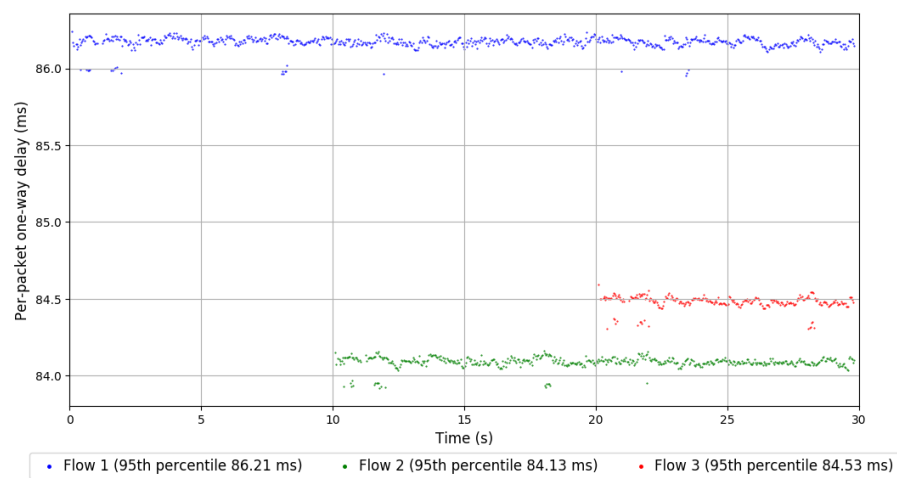
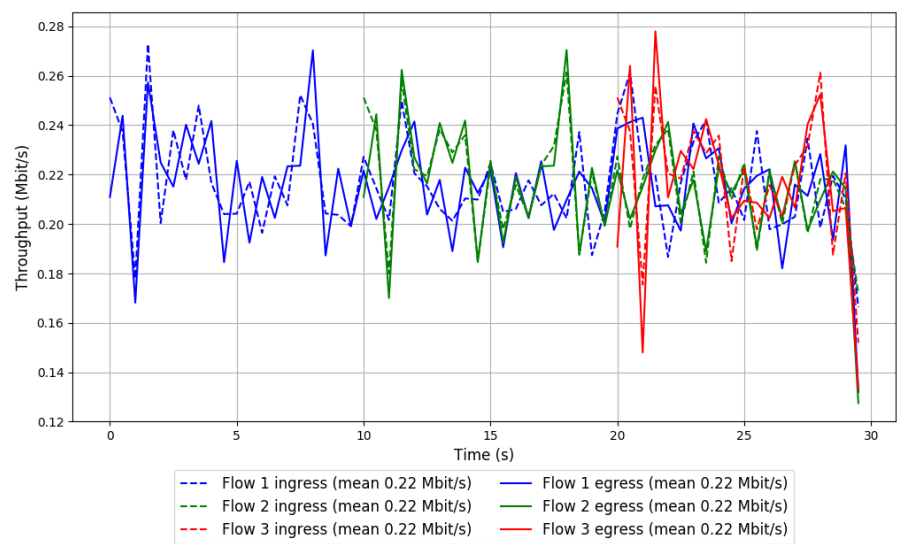


Run 3: Statistics of SReAM

Start at: 2018-01-02 07:55:17
End at: 2018-01-02 07:55:47
Local clock offset: 0.368 ms
Remote clock offset: -3.013 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.205 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.212 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.133 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.528 ms
Loss rate: 1.53%

Run 3: Report of SReAM — Data Link

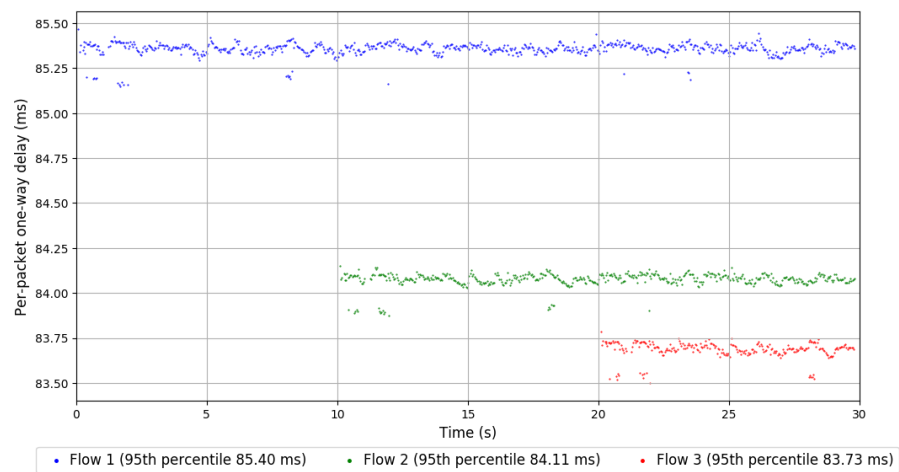
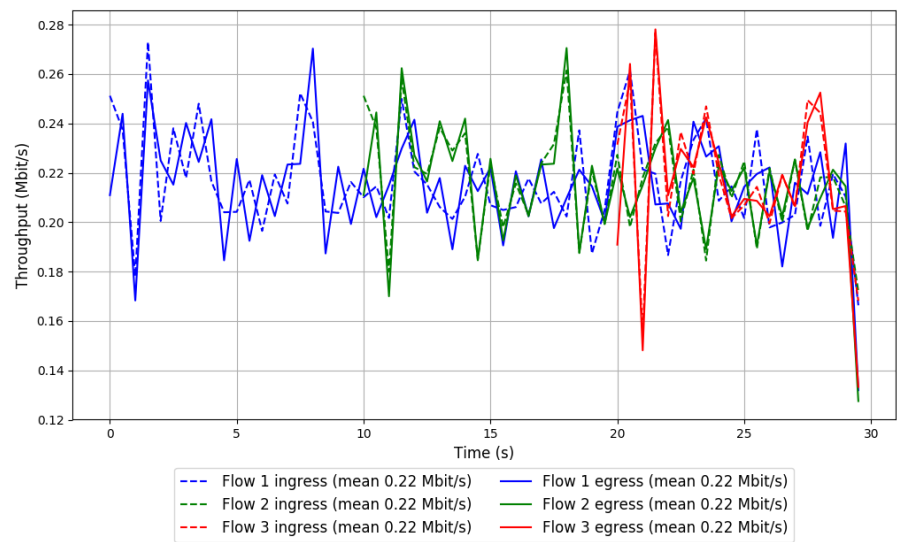


Run 4: Statistics of SReAM

Start at: 2018-01-02 08:14:50
End at: 2018-01-02 08:15:20
Local clock offset: 0.239 ms
Remote clock offset: -2.076 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.392 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.399 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.113 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.732 ms
Loss rate: 1.53%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-02 08:34:24

End at: 2018-01-02 08:34:54

Local clock offset: 0.126 ms

Remote clock offset: 2.64 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 81.565 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.572 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.477 ms

Loss rate: 0.84%

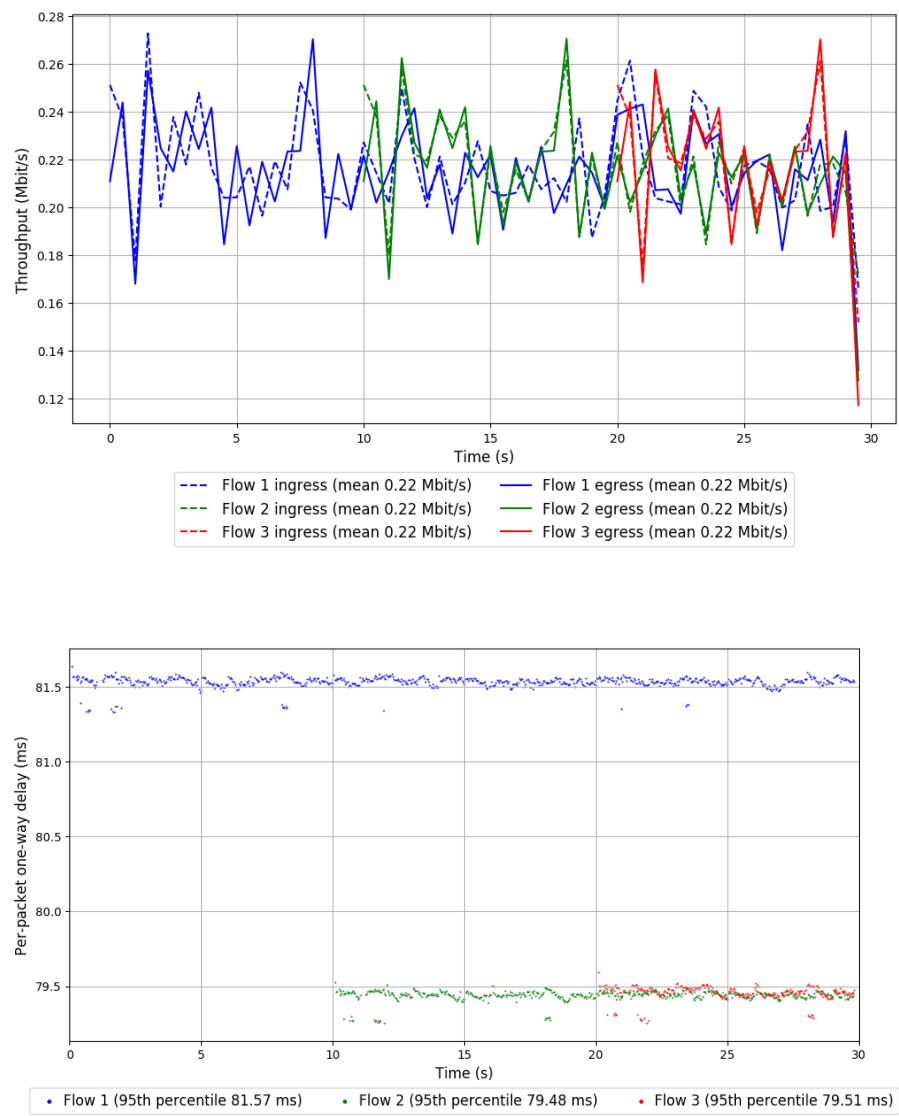
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.507 ms

Loss rate: 1.53%

Run 5: Report of SReAM — Data Link

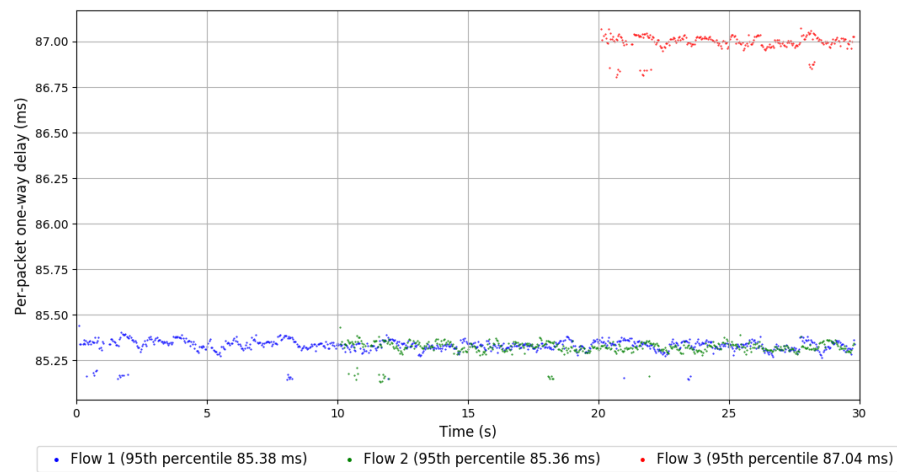
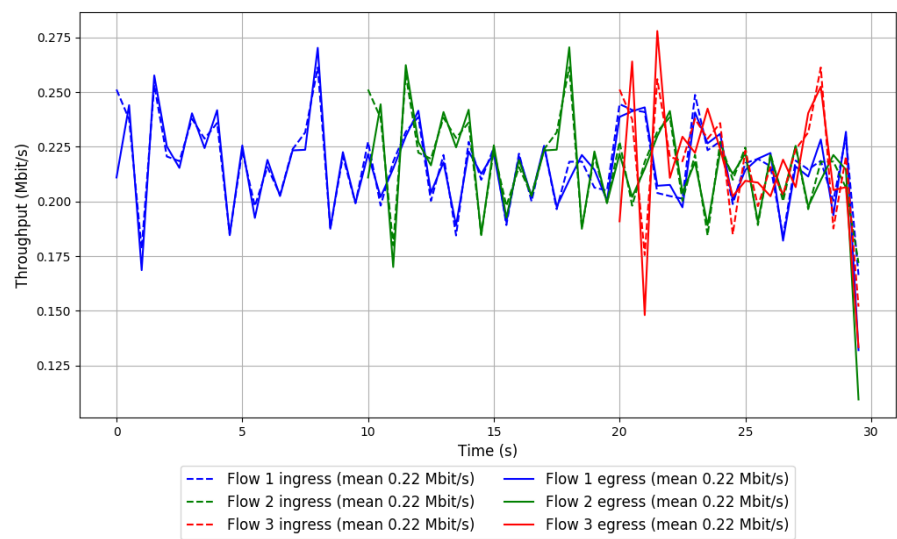


Run 6: Statistics of SCReAM

Start at: 2018-01-02 08:54:00
End at: 2018-01-02 08:54:30
Local clock offset: -0.013 ms
Remote clock offset: -3.005 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.015 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.376 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.361 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.039 ms
Loss rate: 1.53%

Run 6: Report of SReAM — Data Link

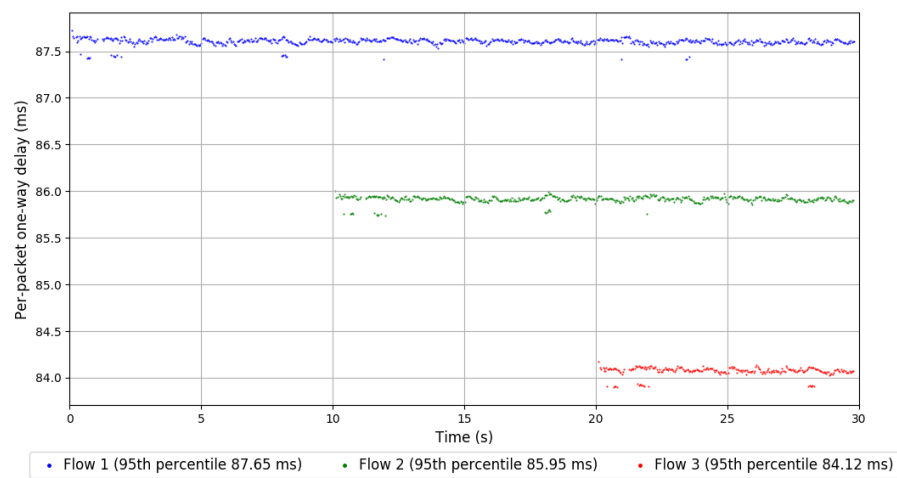
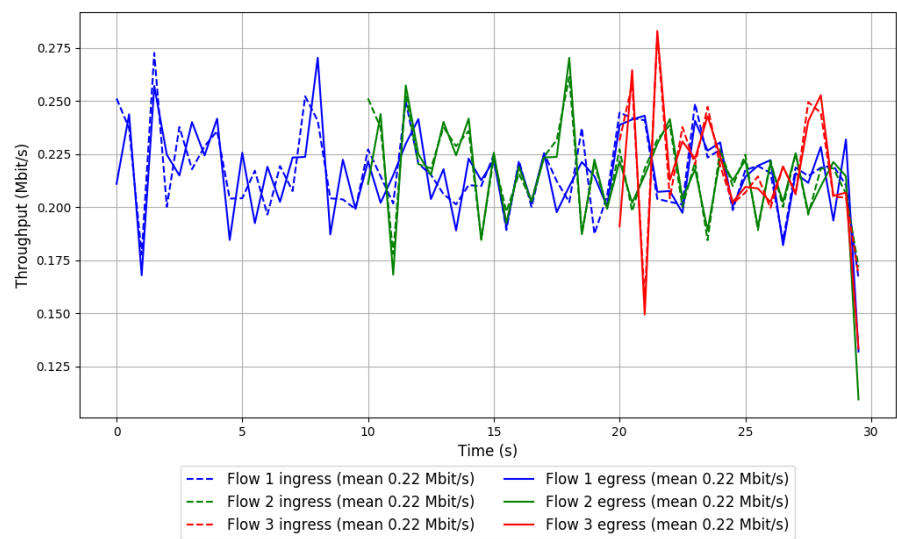


Run 7: Statistics of SReAM

Start at: 2018-01-02 09:13:32
End at: 2018-01-02 09:14:02
Local clock offset: -0.081 ms
Remote clock offset: -2.018 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.639 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.647 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.949 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.116 ms
Loss rate: 1.52%

Run 7: Report of SCRaM — Data Link

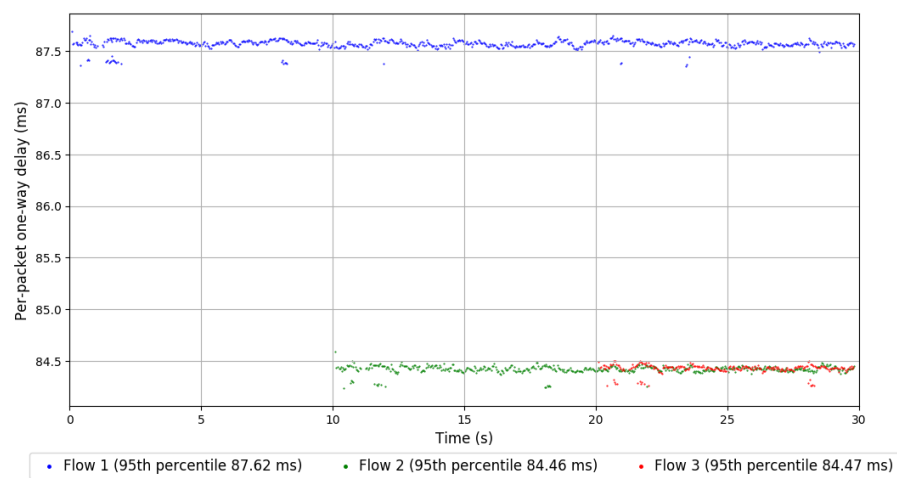
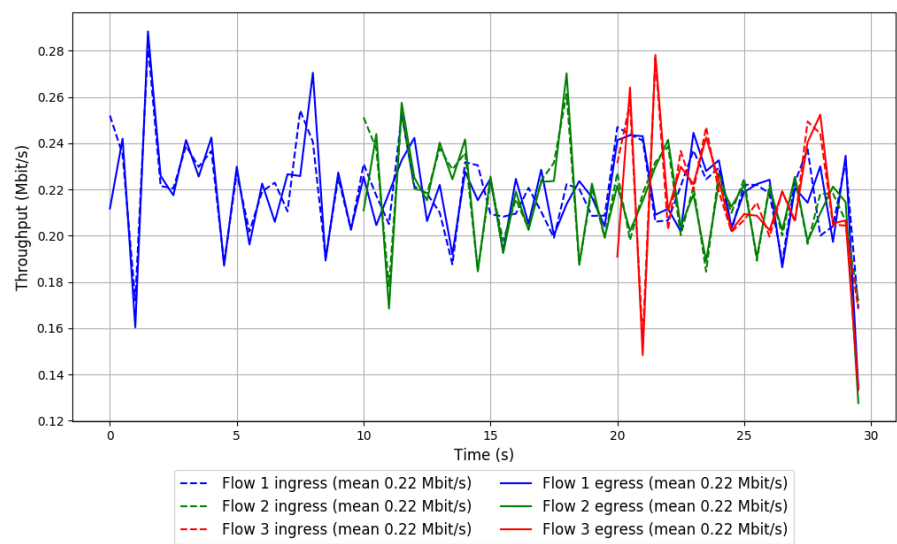


Run 8: Statistics of SReAM

Start at: 2018-01-02 09:33:05
End at: 2018-01-02 09:33:35
Local clock offset: -0.149 ms
Remote clock offset: -2.51 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.611 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.621 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.462 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.474 ms
Loss rate: 1.53%

Run 8: Report of SReAM — Data Link

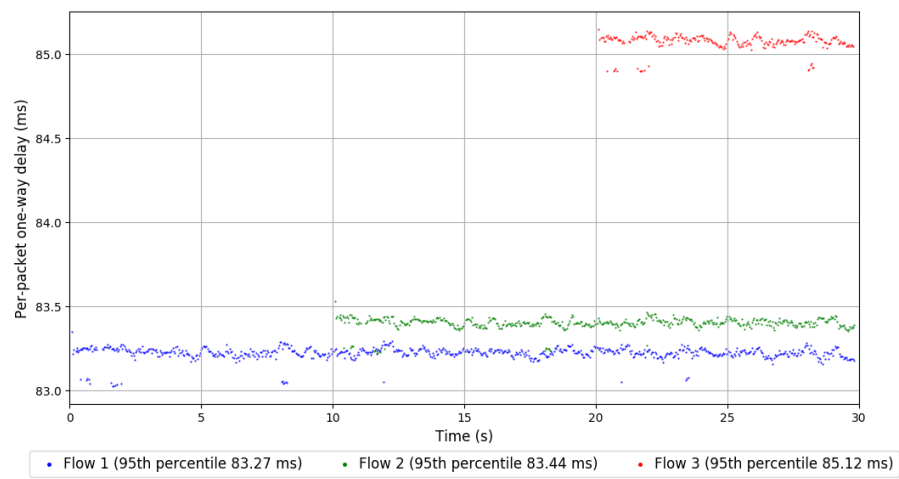
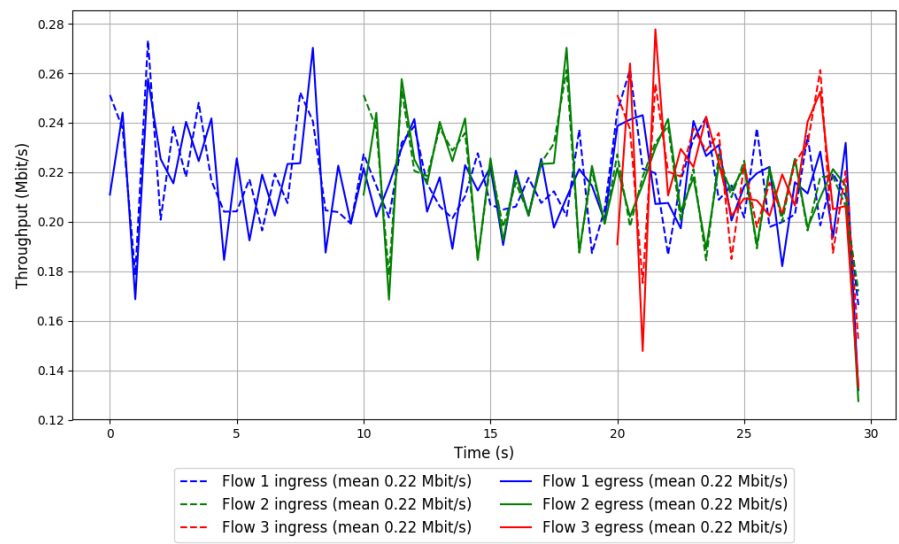


Run 9: Statistics of SReAM

Start at: 2018-01-02 09:52:40
End at: 2018-01-02 09:53:10
Local clock offset: -0.277 ms
Remote clock offset: -1.634 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.095 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.266 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.442 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.123 ms
Loss rate: 1.53%

Run 9: Report of SReAM — Data Link

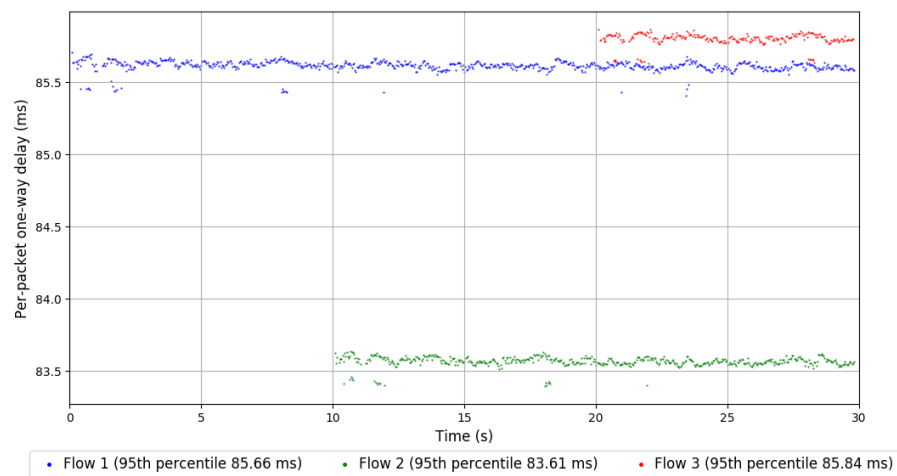
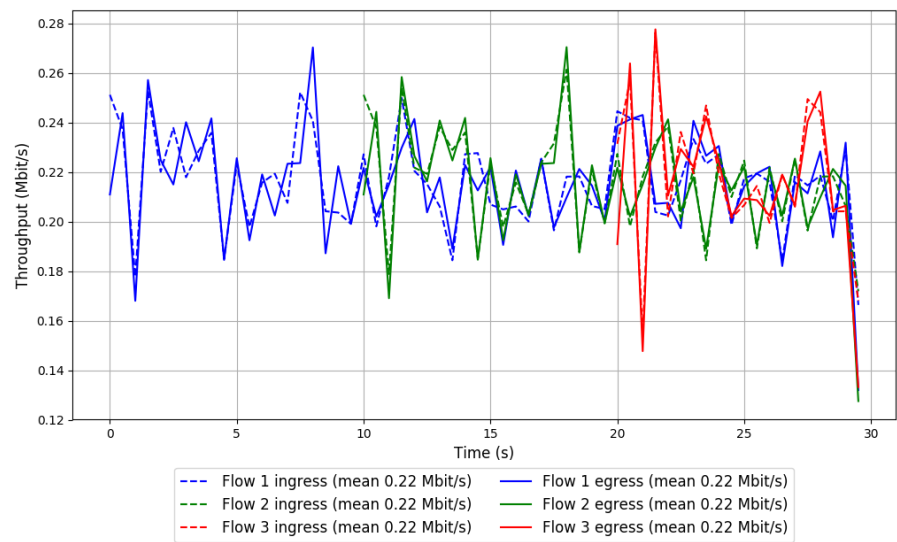


Run 10: Statistics of SReAM

Start at: 2018-01-02 10:12:16
End at: 2018-01-02 10:12:46
Local clock offset: -0.31 ms
Remote clock offset: -1.736 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.820 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.659 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.611 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.845 ms
Loss rate: 1.53%

Run 10: Report of SCReAM — Data Link

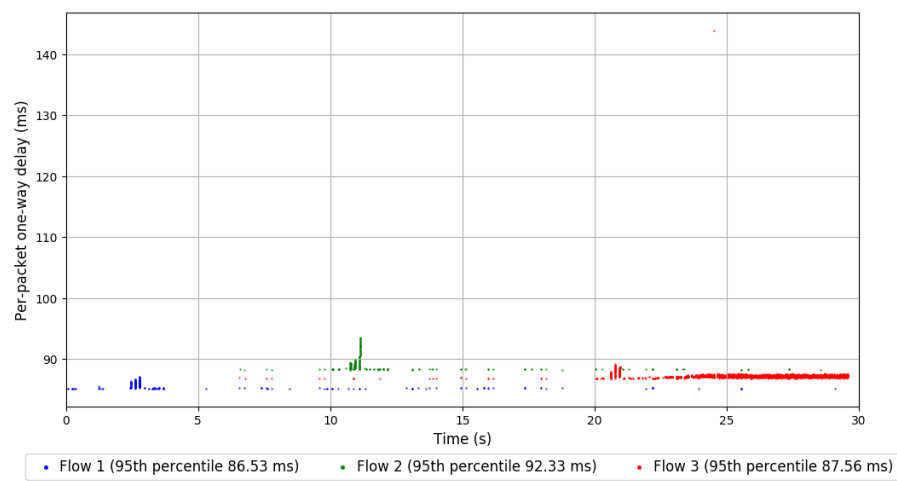
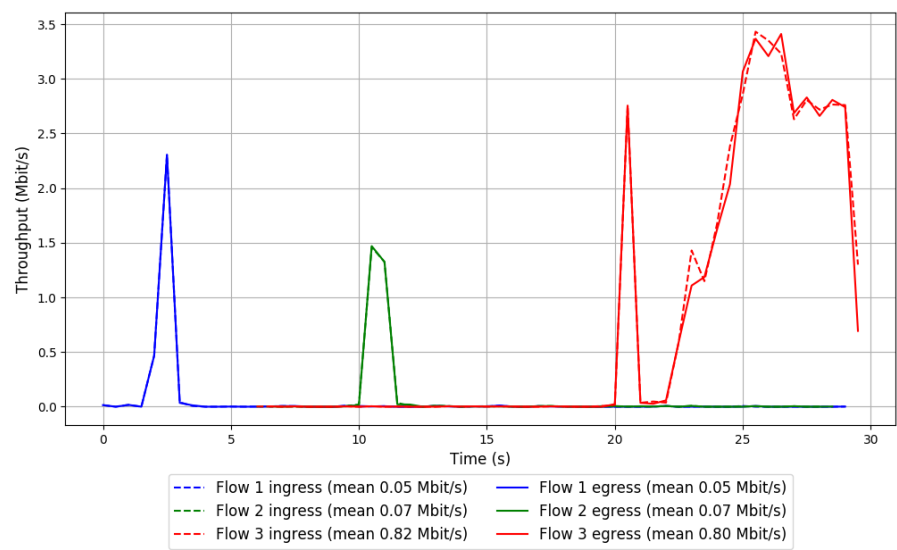


Run 1: Statistics of WebRTC media

Start at: 2018-01-02 07:18:42
End at: 2018-01-02 07:19:12
Local clock offset: 0.558 ms
Remote clock offset: -5.252 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 88.562 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.525 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 92.329 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 87.561 ms
Loss rate: 2.80%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-02 07:38:17

End at: 2018-01-02 07:38:47

Local clock offset: 0.495 ms

Remote clock offset: 1.699 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 81.660 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 81.646 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 81.564 ms

Loss rate: 0.88%

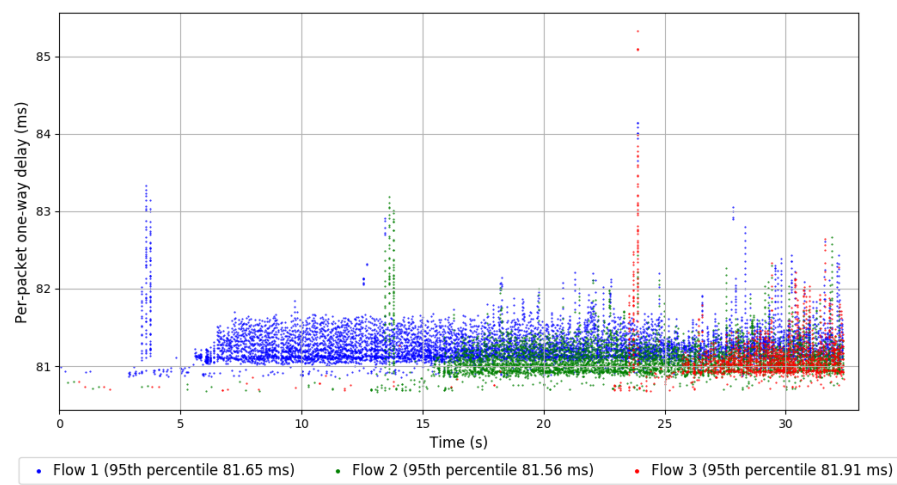
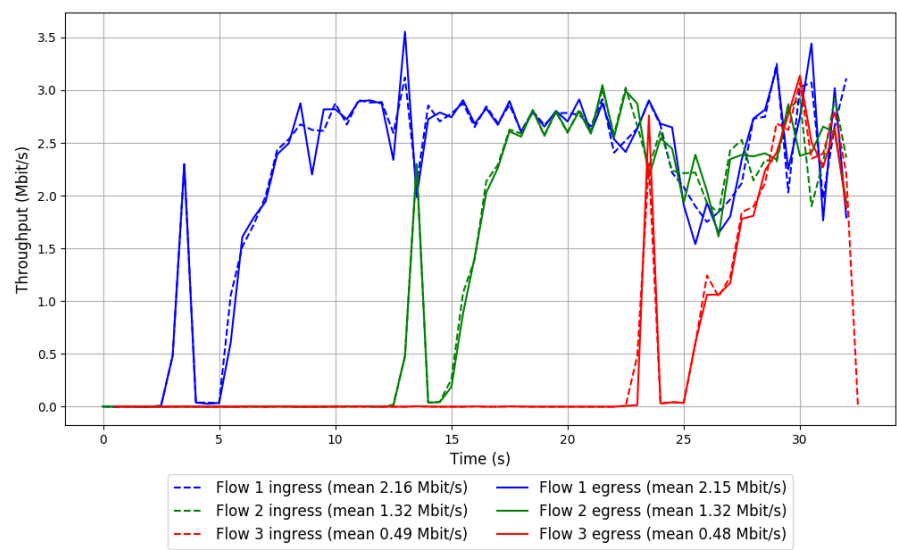
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 81.905 ms

Loss rate: 2.50%

Run 2: Report of WebRTC media — Data Link

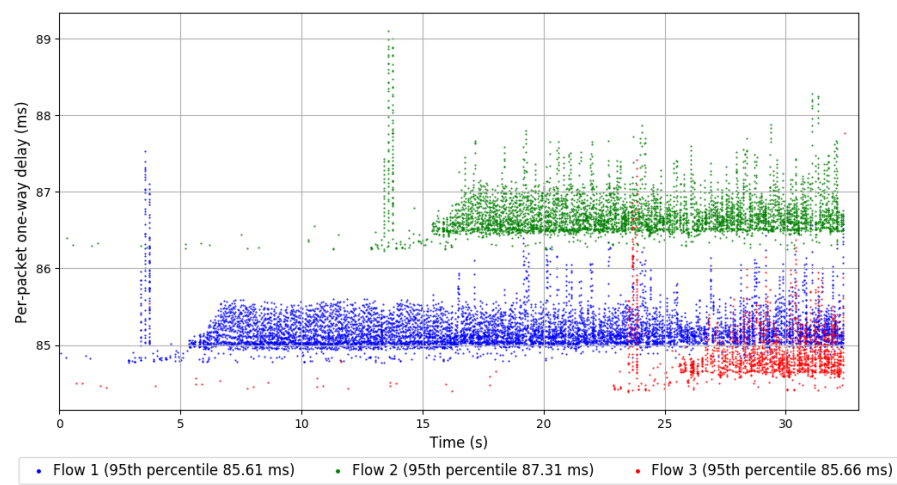
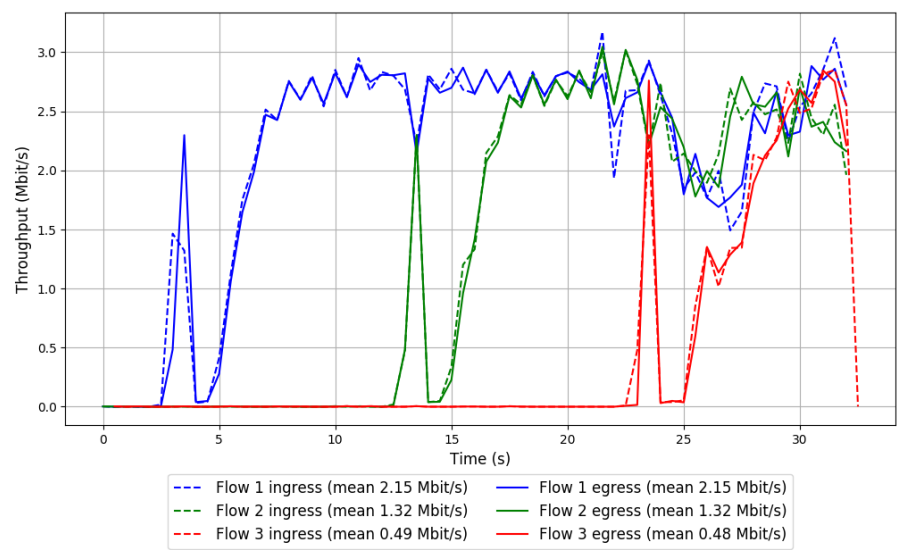


Run 3: Statistics of WebRTC media

Start at: 2018-01-02 07:57:48
End at: 2018-01-02 07:58:18
Local clock offset: 0.373 ms
Remote clock offset: -3.431 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 86.981 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 85.612 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 87.313 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 85.659 ms
Loss rate: 2.50%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

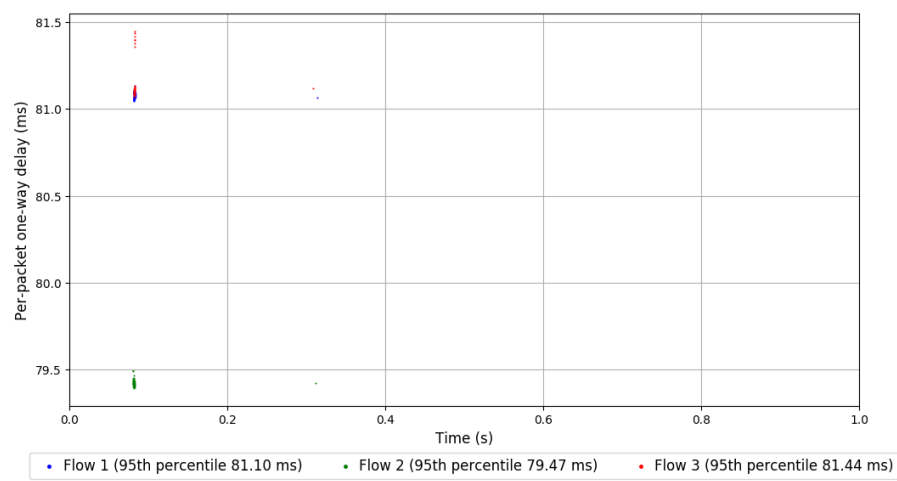
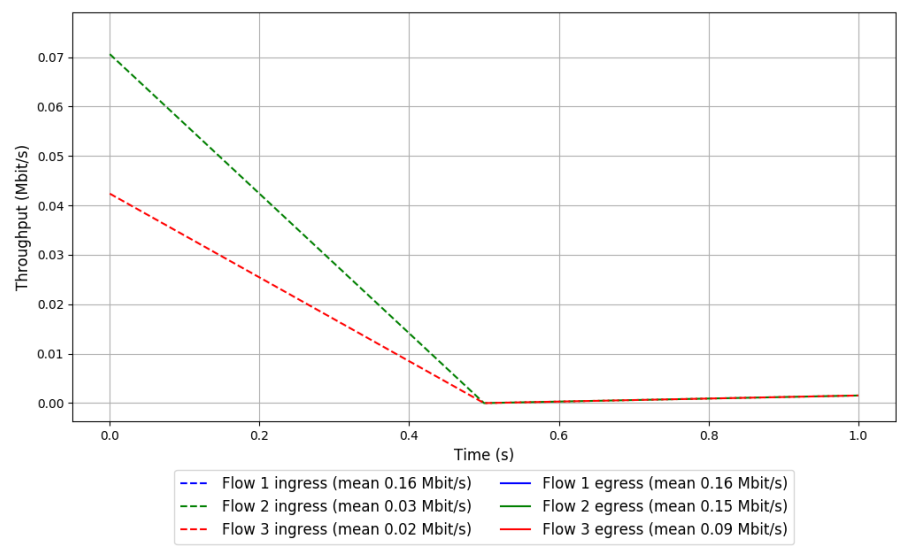
Start at: 2018-01-02 08:17:22

End at: 2018-01-02 08:17:52

Local clock offset: 0.202 ms

Remote clock offset: 2.444 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 08:36:56

End at: 2018-01-02 08:37:26

Local clock offset: 0.032 ms

Remote clock offset: 3.061 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 82.777 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 82.853 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 81.728 ms

Loss rate: 0.70%

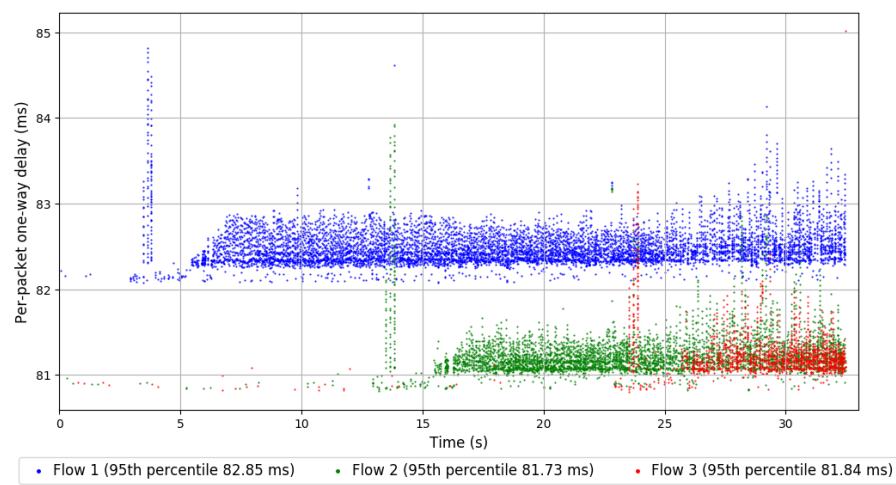
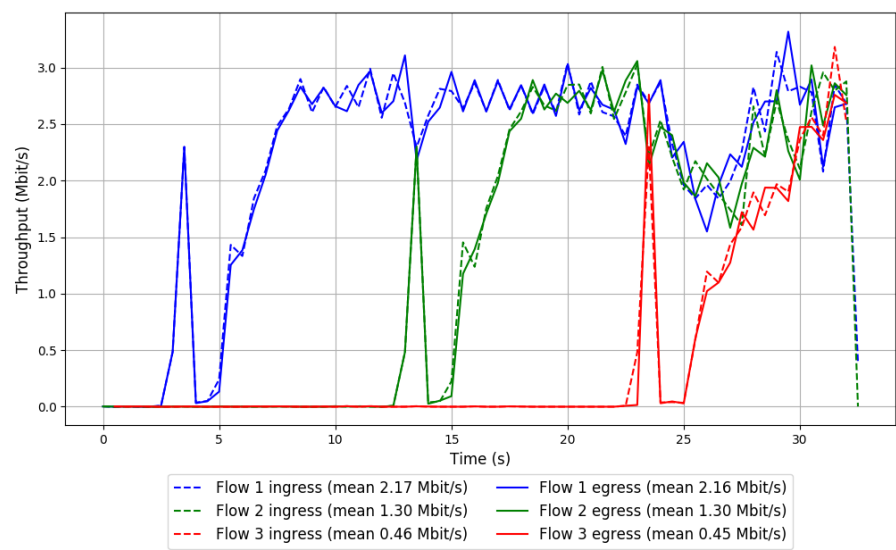
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 81.843 ms

Loss rate: 2.31%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 08:56:31

End at: 2018-01-02 08:57:01

Local clock offset: -0.005 ms

Remote clock offset: 2.652 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 83.375 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 79.967 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 83.592 ms

Loss rate: 0.89%

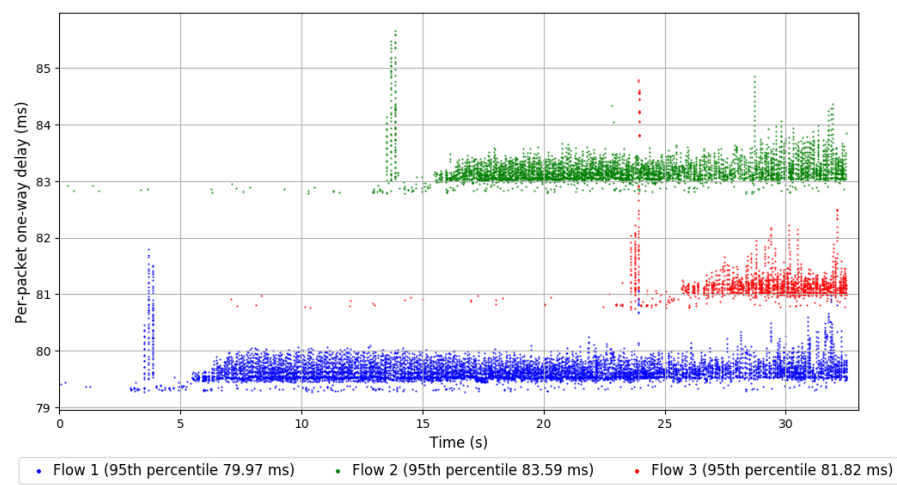
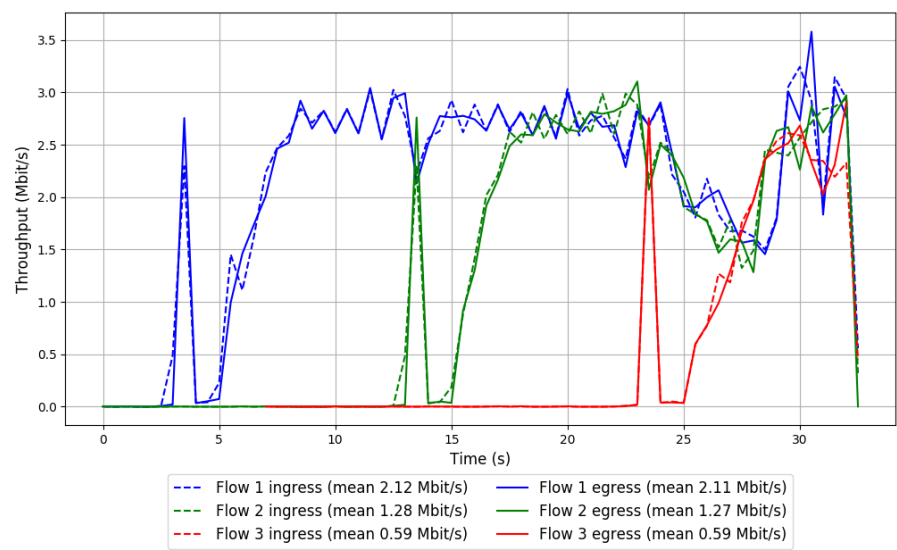
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 81.824 ms

Loss rate: 1.48%

Run 6: Report of WebRTC media — Data Link

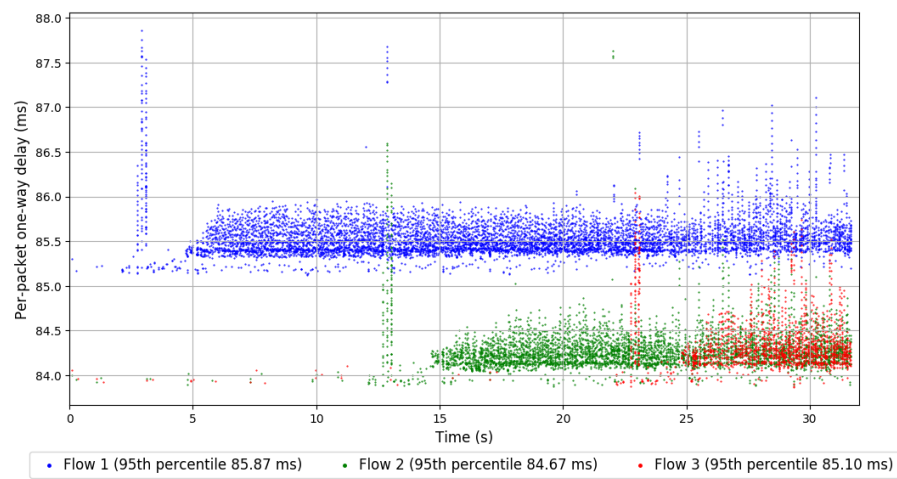
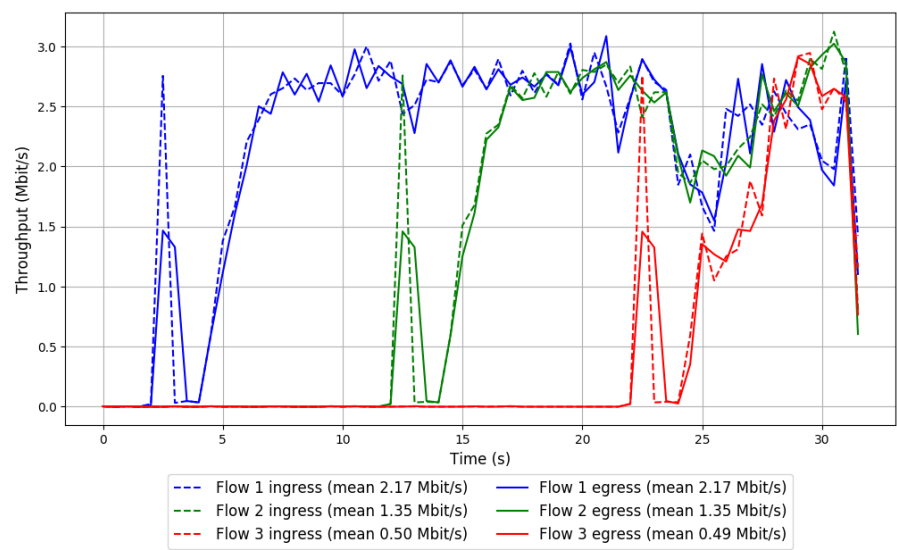


Run 7: Statistics of WebRTC media

Start at: 2018-01-02 09:16:03
End at: 2018-01-02 09:16:34
Local clock offset: -0.09 ms
Remote clock offset: -2.077 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 85.784 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 85.873 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 84.672 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 85.102 ms
Loss rate: 2.45%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 09:35:37

End at: 2018-01-02 09:36:07

Local clock offset: -0.134 ms

Remote clock offset: -2.09 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 86.460 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 86.439 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 86.375 ms

Loss rate: 0.67%

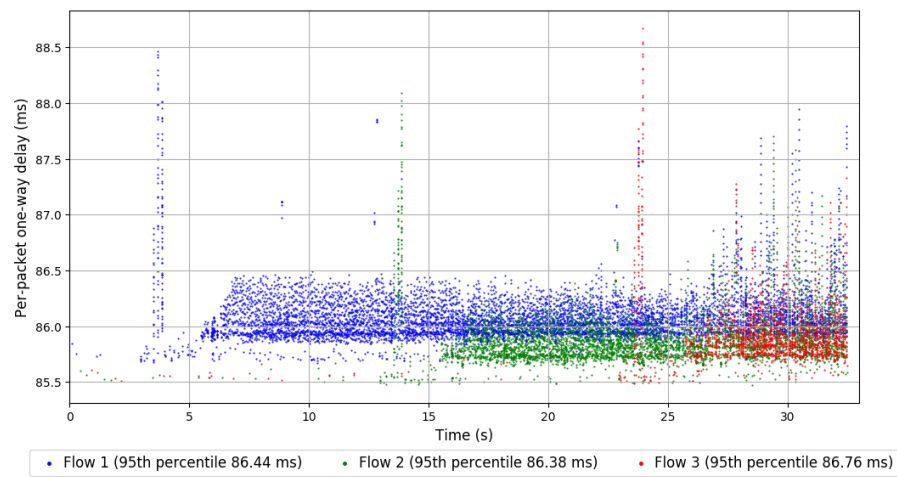
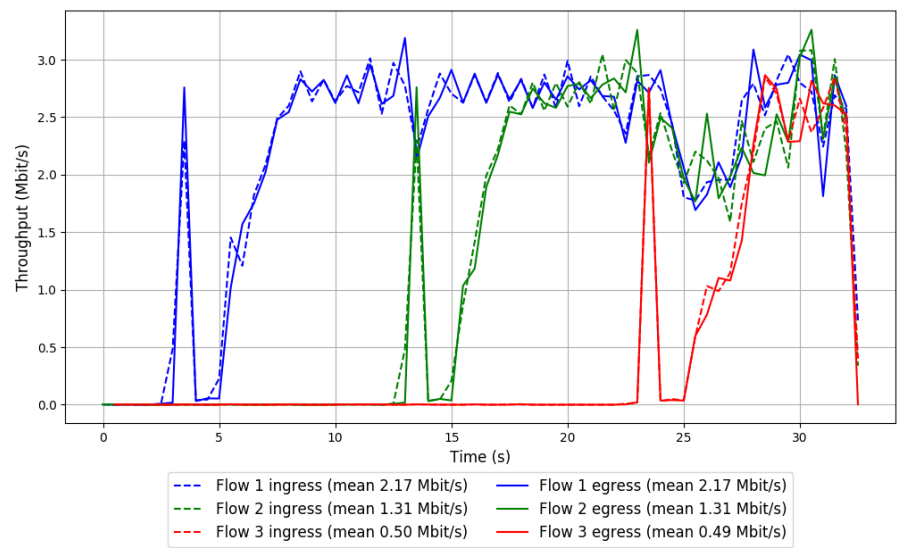
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 86.761 ms

Loss rate: 2.47%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 09:55:11

End at: 2018-01-02 09:55:41

Local clock offset: -0.23 ms

Remote clock offset: 4.098 ms

Run 9: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of WebRTC media

Start at: 2018-01-02 10:14:47

End at: 2018-01-02 10:15:17

Local clock offset: -0.401 ms

Remote clock offset: 3.288 ms

Run 10: Report of WebRTC media — Data Link

Figure is missing

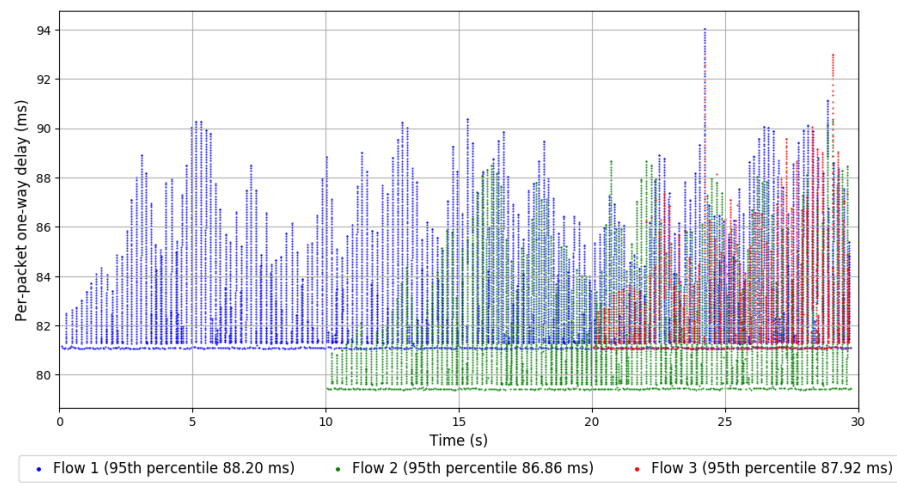
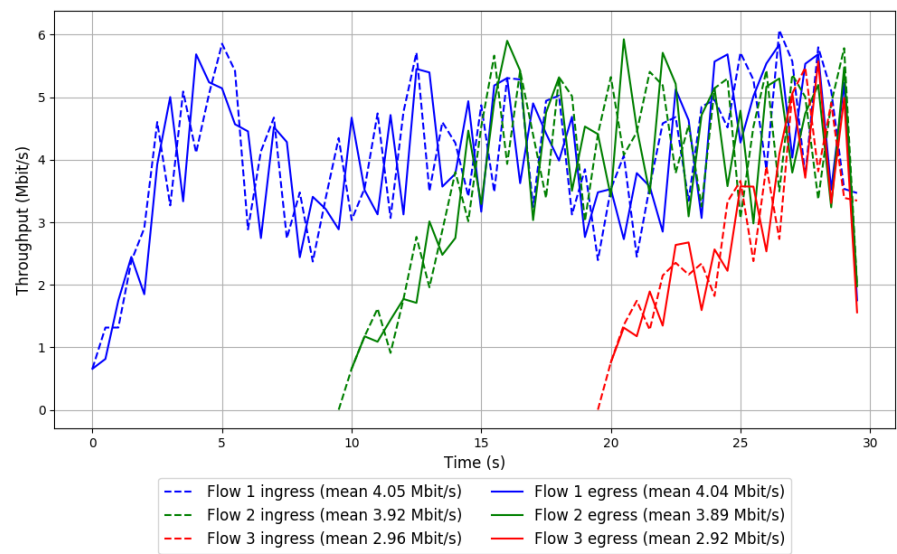
Figure is missing

Run 1: Statistics of Sprout

Start at: 2018-01-02 07:19:56
End at: 2018-01-02 07:20:26
Local clock offset: 0.552 ms
Remote clock offset: 0.546 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 87.777 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 88.203 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 86.858 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 87.925 ms
Loss rate: 3.09%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 07:39:31

End at: 2018-01-02 07:40:01

Local clock offset: 0.489 ms

Remote clock offset: 1.223 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 88.137 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 88.586 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 87.908 ms

Loss rate: 0.64%

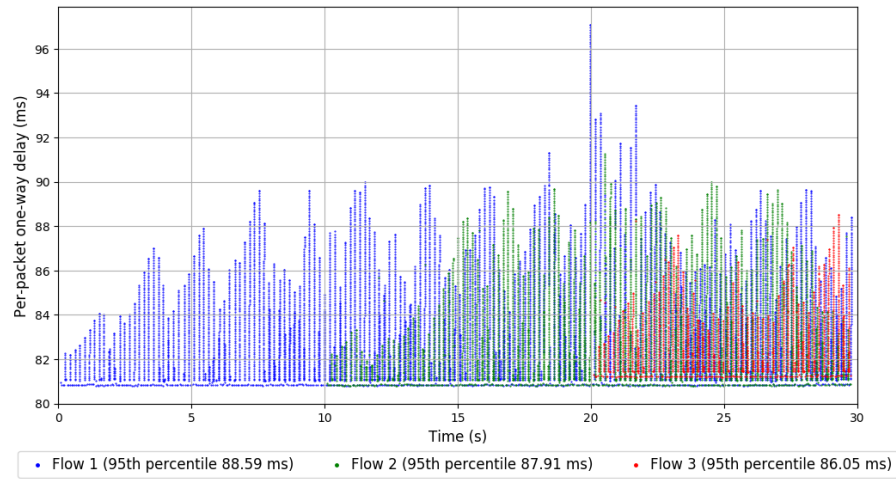
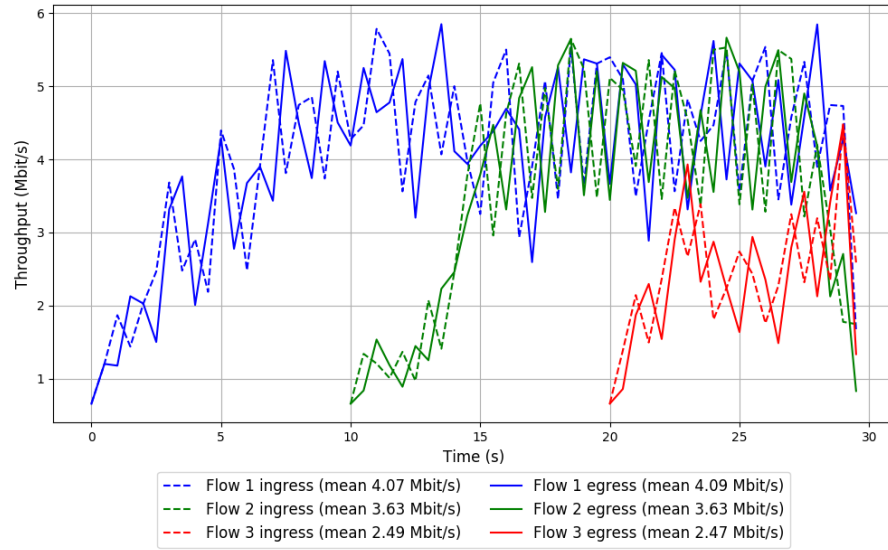
-- Flow 3:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 86.049 ms

Loss rate: 2.60%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 07:59:02

End at: 2018-01-02 07:59:32

Local clock offset: 0.282 ms

Remote clock offset: 1.912 ms

Below is generated by plot.py at 2018-01-02 13:54:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 87.449 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 86.602 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 88.515 ms

Loss rate: 0.85%

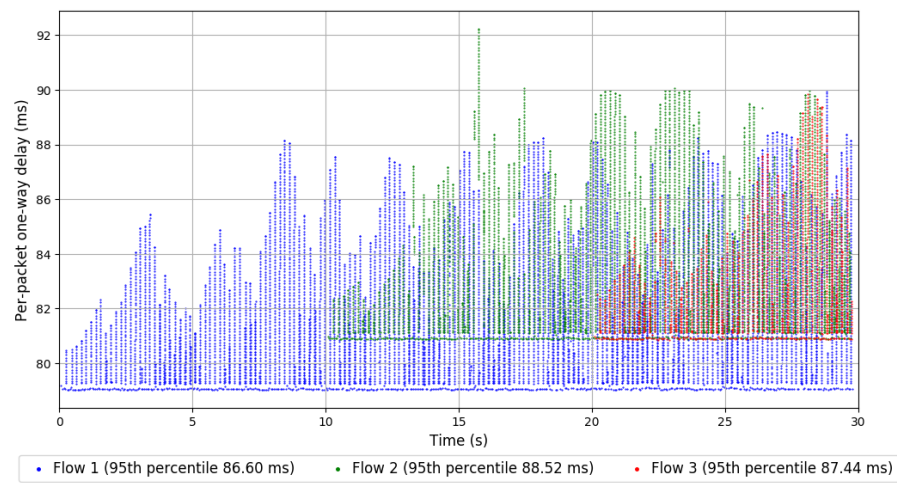
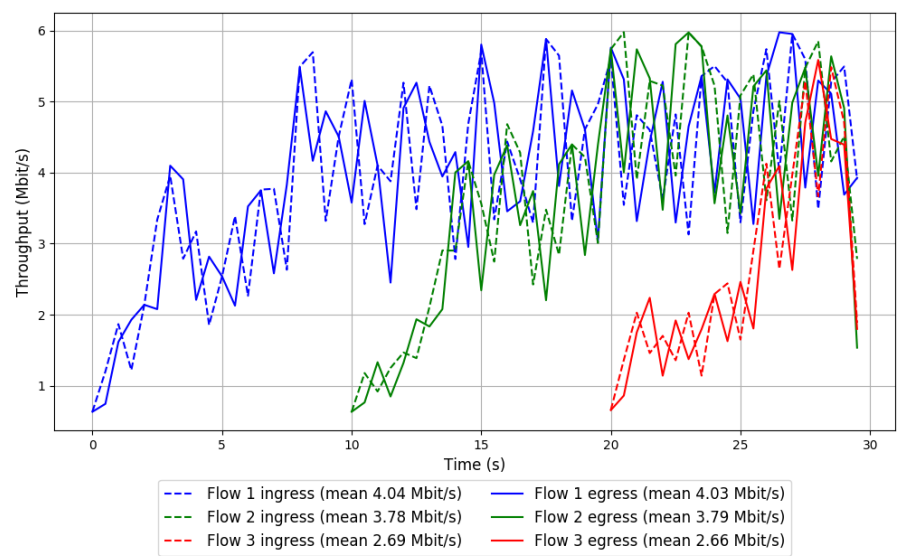
-- Flow 3:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 87.437 ms

Loss rate: 2.67%

Run 3: Report of Sprout — Data Link

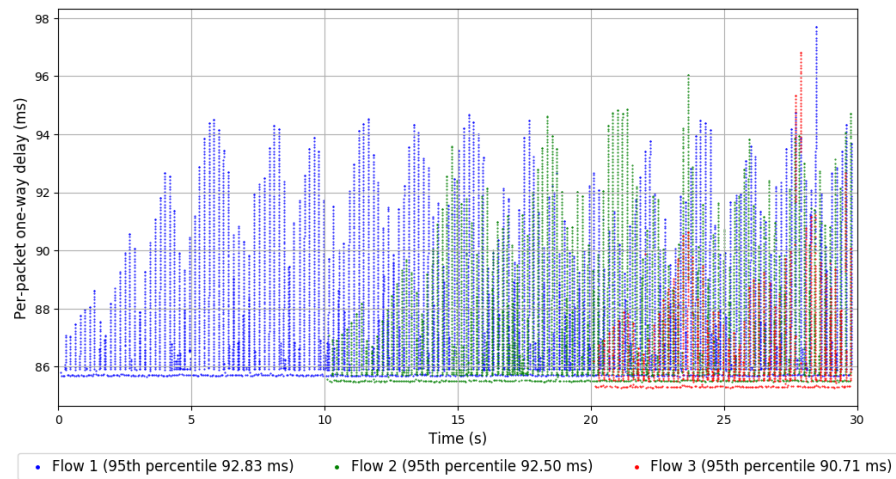
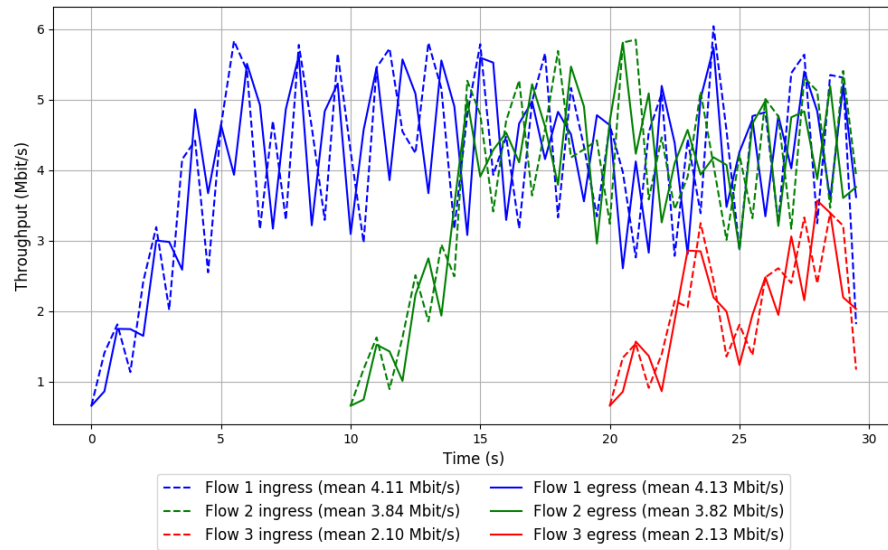


Run 4: Statistics of Sprout

Start at: 2018-01-02 08:18:35
End at: 2018-01-02 08:19:05
Local clock offset: 0.196 ms
Remote clock offset: -1.95 ms

```
# Below is generated by plot.py at 2018-01-02 13:54:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 92.673 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 92.833 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 92.495 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 90.713 ms
Loss rate: 0.38%
```

Run 4: Report of Sprout — Data Link

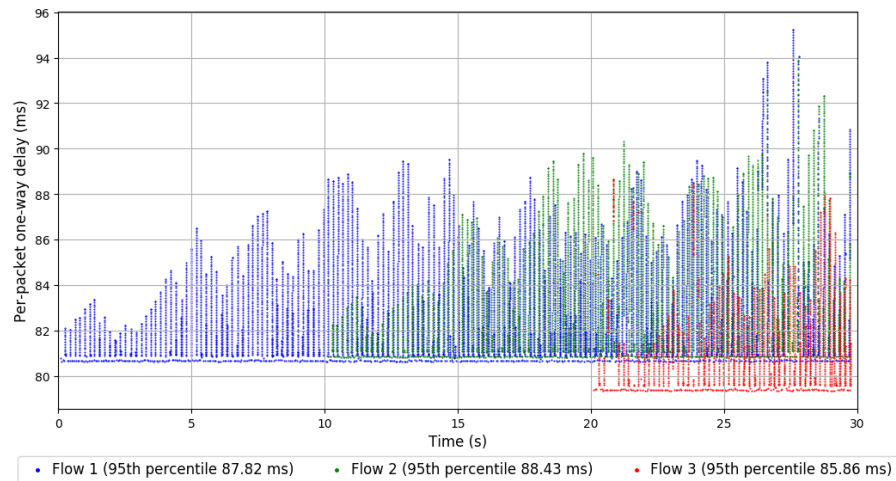
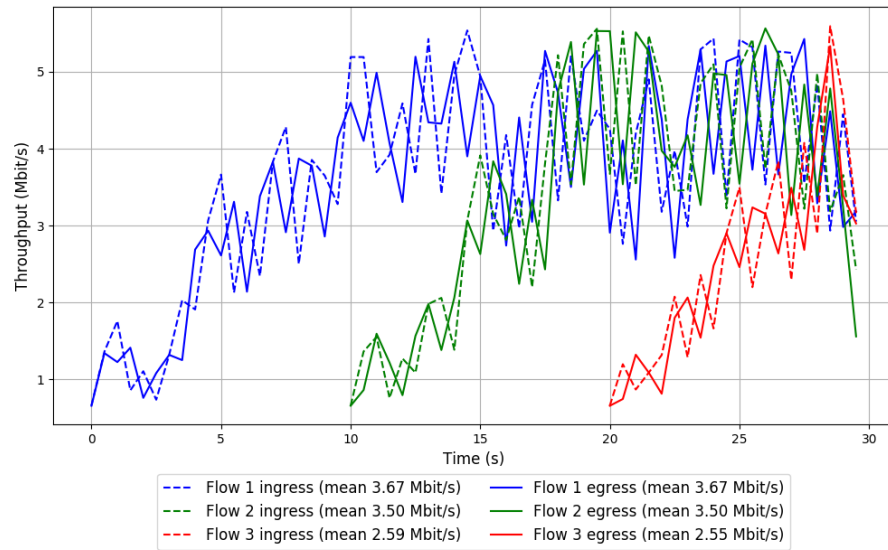


Run 5: Statistics of Sprout

Start at: 2018-01-02 08:38:10
End at: 2018-01-02 08:38:40
Local clock offset: 0.027 ms
Remote clock offset: 2.694 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 87.950 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 87.817 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 88.428 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 85.858 ms
Loss rate: 3.25%

Run 5: Report of Sprout — Data Link

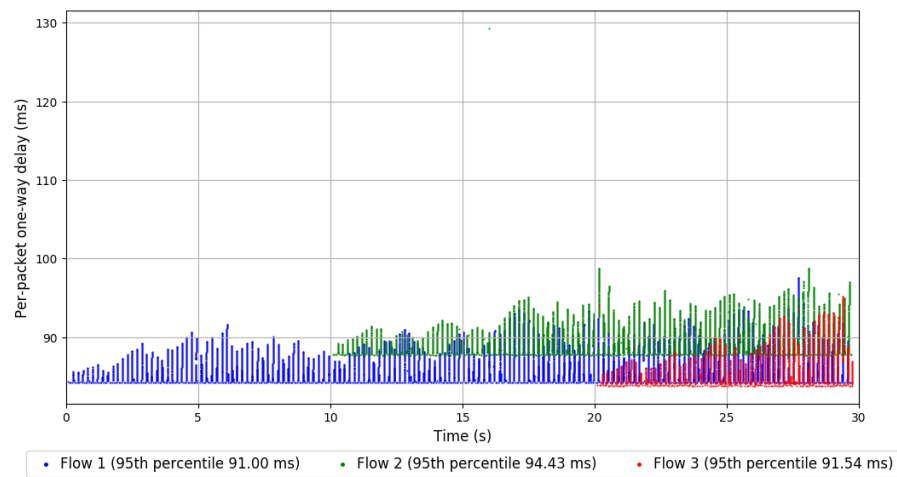
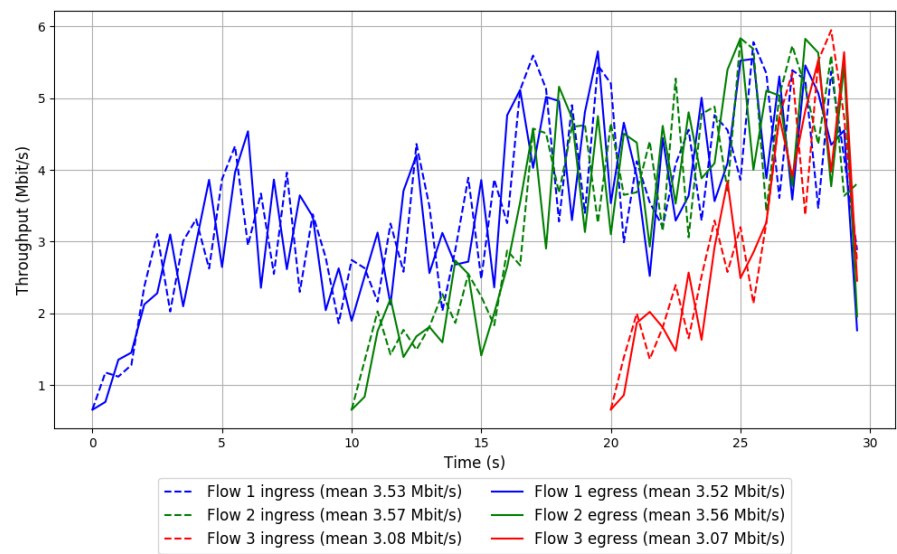


Run 6: Statistics of Sprout

Start at: 2018-01-02 08:57:45
End at: 2018-01-02 08:58:15
Local clock offset: -0.024 ms
Remote clock offset: -2.093 ms

```
# Below is generated by plot.py at 2018-01-02 13:54:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 93.101 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 91.005 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 94.431 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 91.539 ms
Loss rate: 2.21%
```

Run 6: Report of Sprout — Data Link

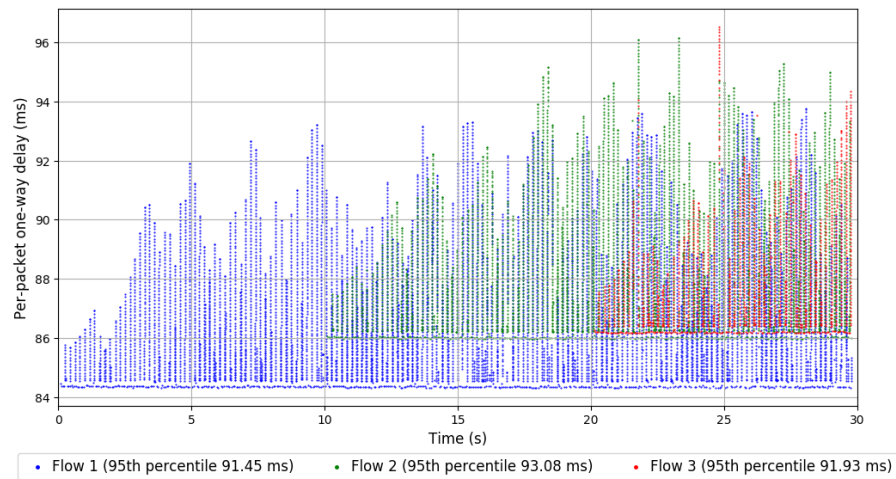
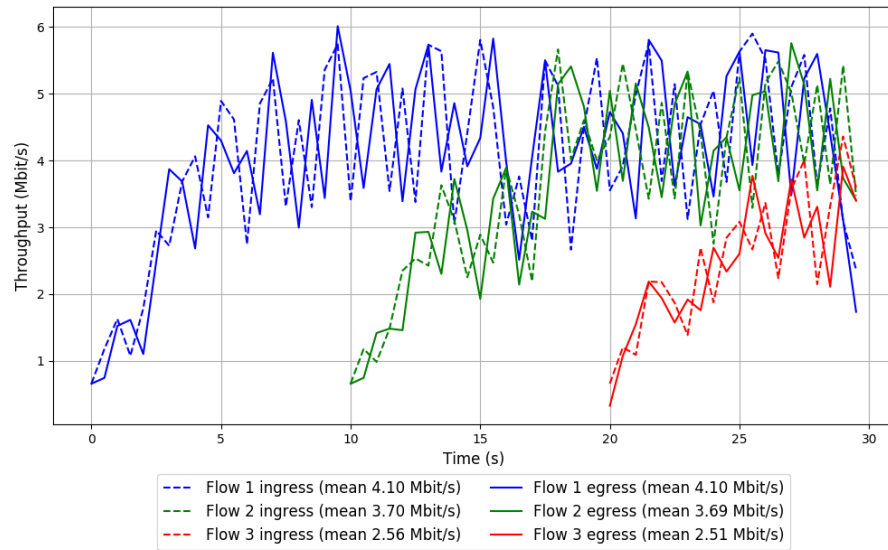


Run 7: Statistics of Sprout

Start at: 2018-01-02 09:17:17
End at: 2018-01-02 09:17:47
Local clock offset: -0.121 ms
Remote clock offset: -2.543 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 92.166 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 91.447 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 93.075 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 91.928 ms
Loss rate: 3.69%

Run 7: Report of Sprout — Data Link

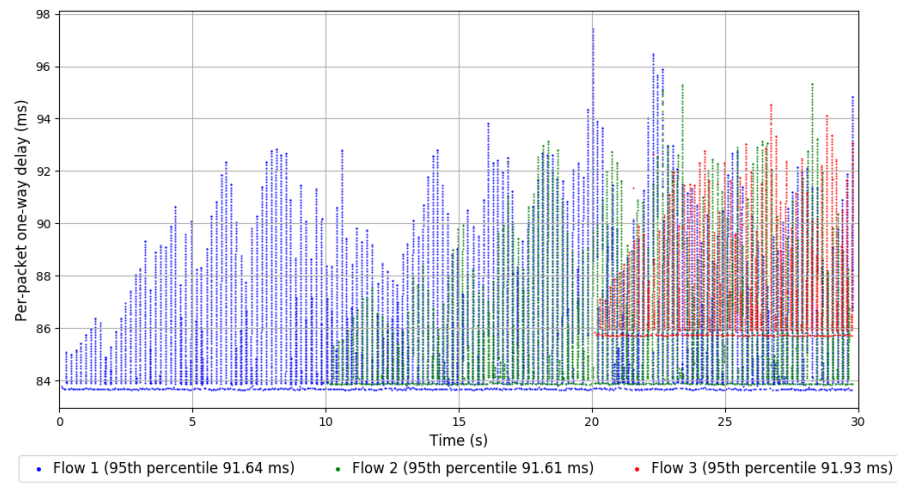
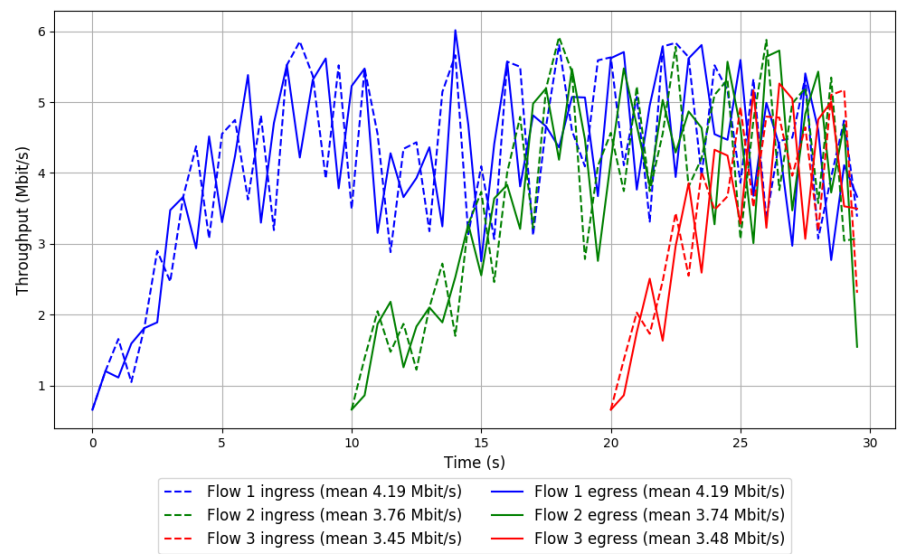


Run 8: Statistics of Sprout

Start at: 2018-01-02 09:36:51
End at: 2018-01-02 09:37:21
Local clock offset: -0.143 ms
Remote clock offset: -2.099 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 91.690 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 91.643 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 91.606 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 91.926 ms
Loss rate: 0.82%

Run 8: Report of Sprout — Data Link

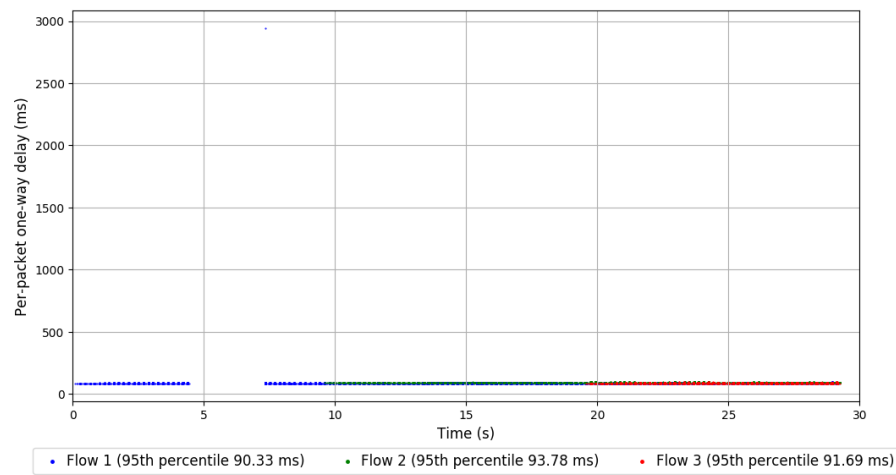
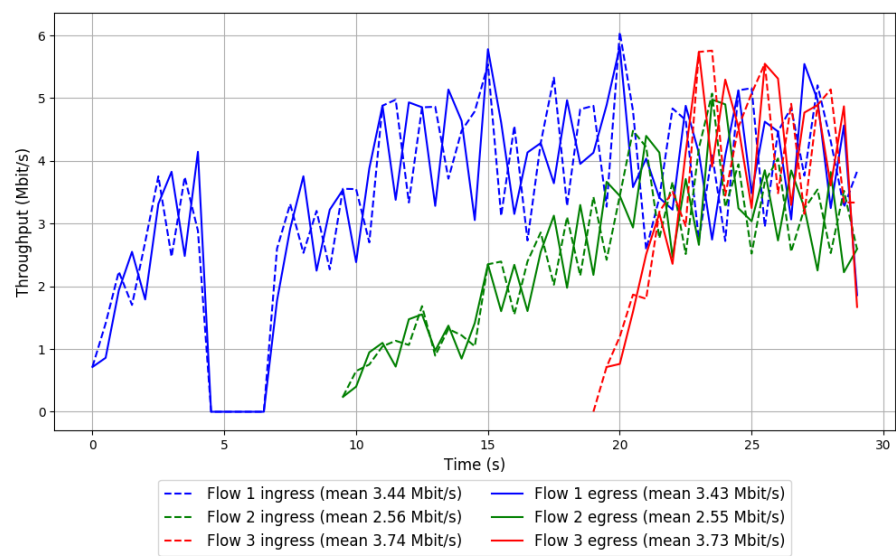


Run 9: Statistics of Sprout

Start at: 2018-01-02 09:56:28
End at: 2018-01-02 09:56:58
Local clock offset: -0.226 ms
Remote clock offset: -1.989 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 91.879 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 90.330 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 93.778 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 91.694 ms
Loss rate: 2.27%

Run 9: Report of Sprout — Data Link

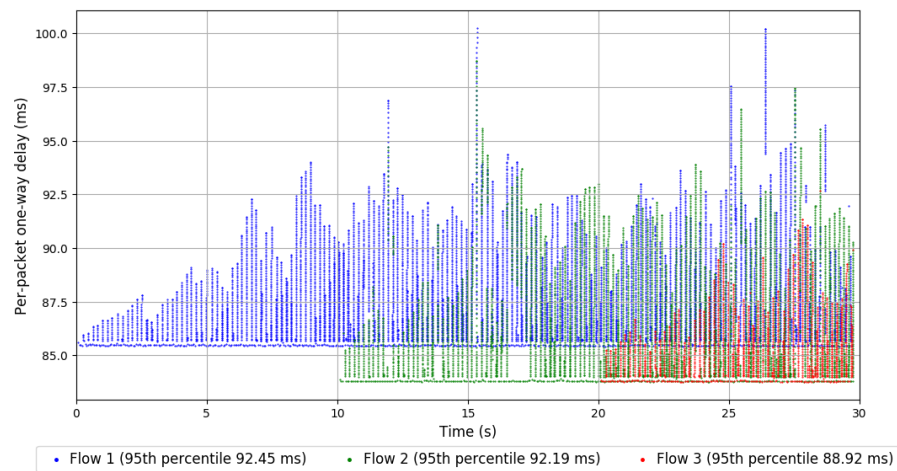
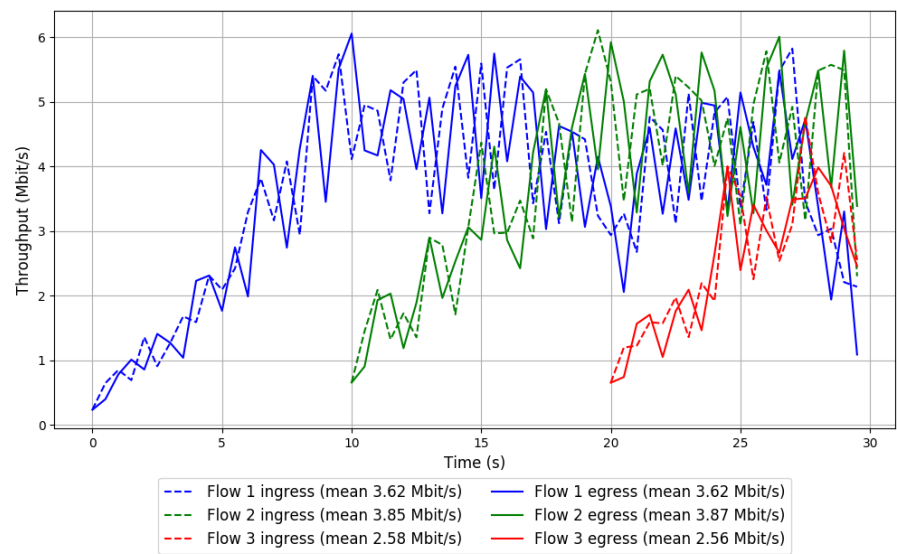


Run 10: Statistics of Sprout

Start at: 2018-01-02 10:16:00
End at: 2018-01-02 10:16:30
Local clock offset: -0.396 ms
Remote clock offset: -1.876 ms

Below is generated by plot.py at 2018-01-02 13:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 92.161 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 92.449 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 92.194 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 88.916 ms
Loss rate: 2.51%

Run 10: Report of Sprout — Data Link

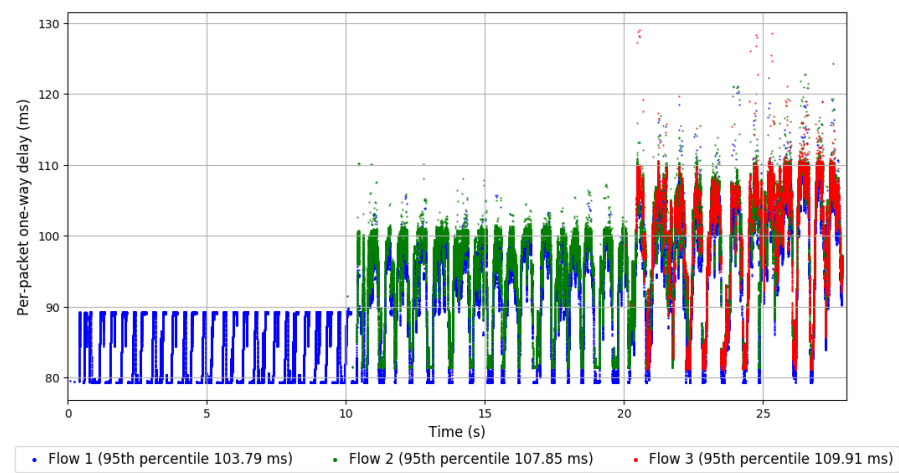
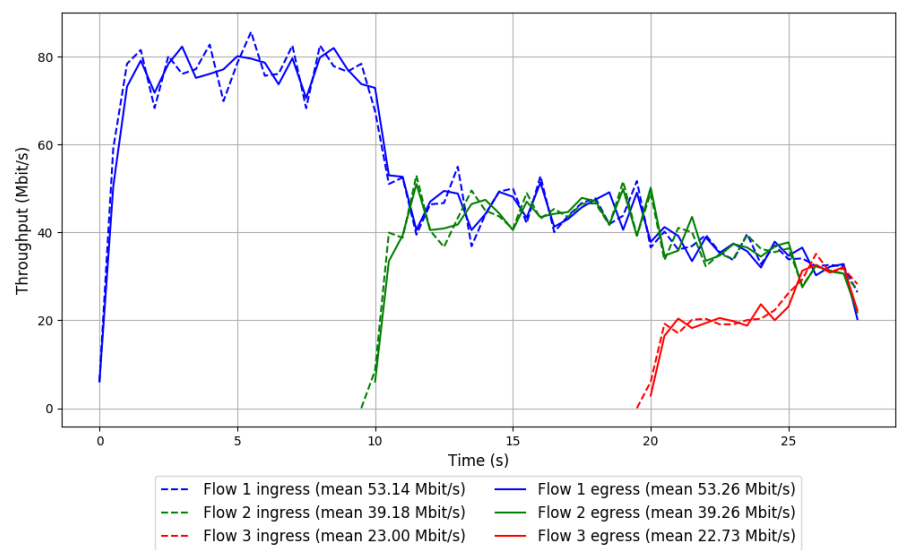


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 07:27:42
End at: 2018-01-02 07:28:12
Local clock offset: 0.534 ms
Remote clock offset: 0.736 ms

# Below is generated by plot.py at 2018-01-02 13:56:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 106.855 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 53.26 Mbit/s
95th percentile per-packet one-way delay: 103.791 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 107.850 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 109.905 ms
Loss rate: 3.53%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 07:47:17

End at: 2018-01-02 07:47:47

Local clock offset: 0.448 ms

Remote clock offset: 2.369 ms

Below is generated by plot.py at 2018-01-02 13:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.14 Mbit/s

95th percentile per-packet one-way delay: 107.349 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 51.91 Mbit/s

95th percentile per-packet one-way delay: 105.905 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 109.160 ms

Loss rate: 0.81%

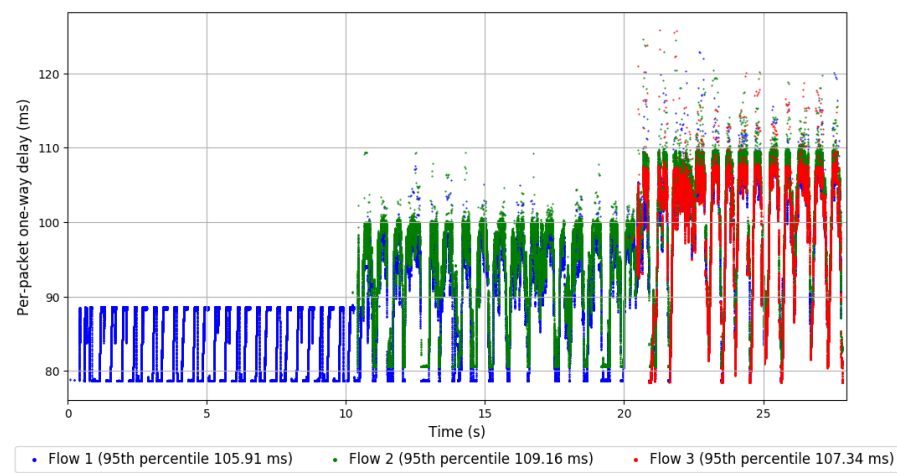
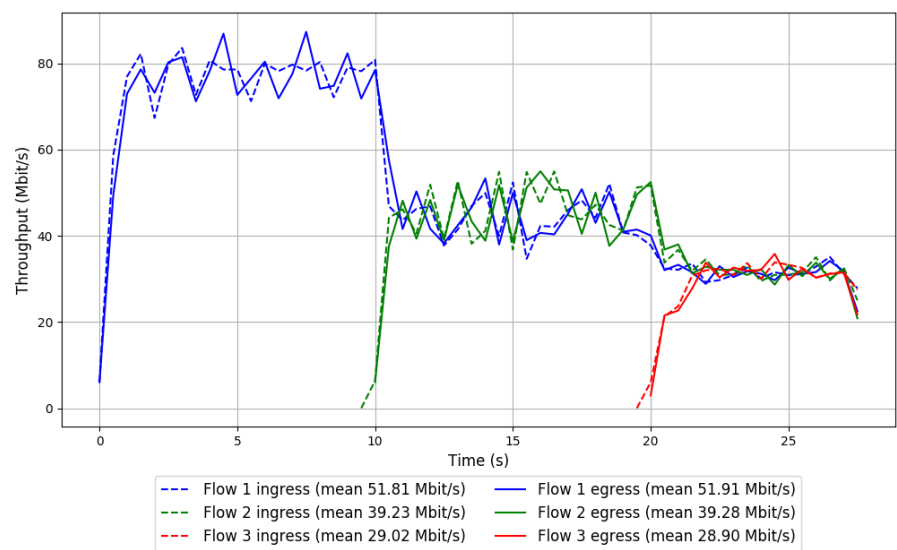
-- Flow 3:

Average throughput: 28.90 Mbit/s

95th percentile per-packet one-way delay: 107.340 ms

Loss rate: 2.74%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 08:06:48

End at: 2018-01-02 08:07:18

Local clock offset: 0.287 ms

Remote clock offset: 2.879 ms

Below is generated by plot.py at 2018-01-02 13:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 104.046 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 101.620 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 105.024 ms

Loss rate: 0.71%

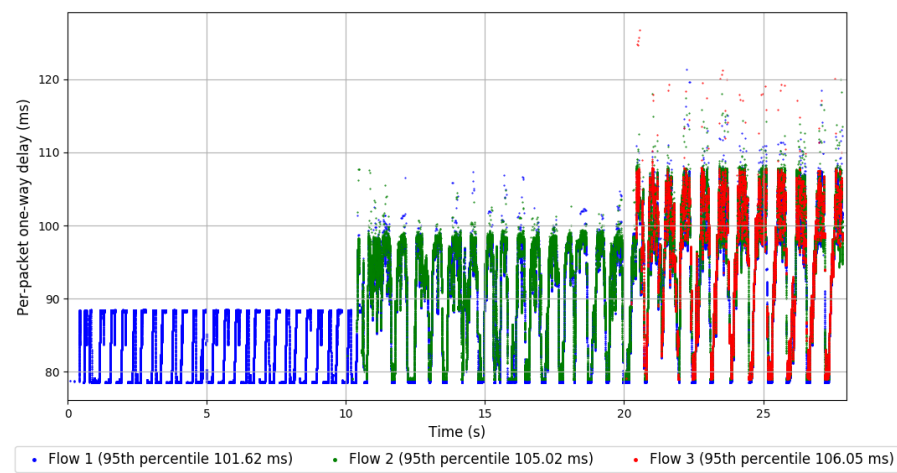
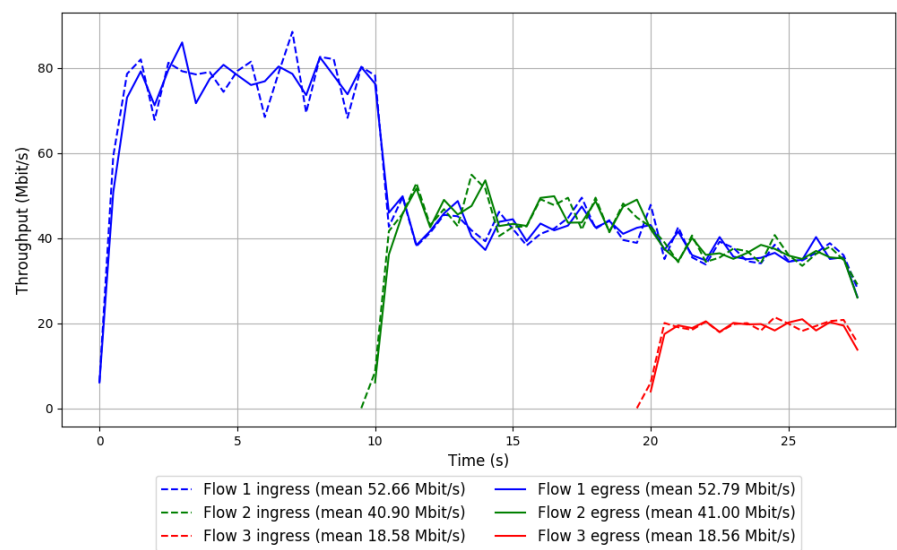
-- Flow 3:

Average throughput: 18.56 Mbit/s

95th percentile per-packet one-way delay: 106.050 ms

Loss rate: 2.25%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 08:26:22

End at: 2018-01-02 08:26:52

Local clock offset: 0.11 ms

Remote clock offset: 2.558 ms

Below is generated by plot.py at 2018-01-02 13:56:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 108.236 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 52.00 Mbit/s

95th percentile per-packet one-way delay: 108.551 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 107.865 ms

Loss rate: 0.96%

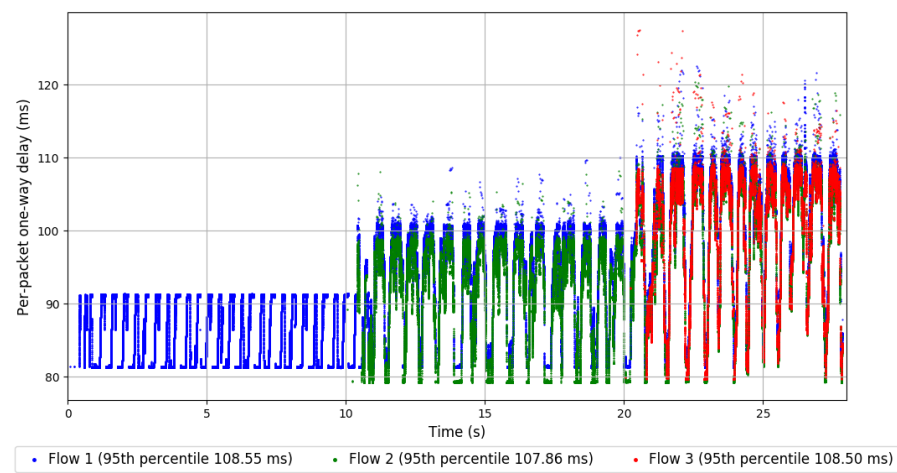
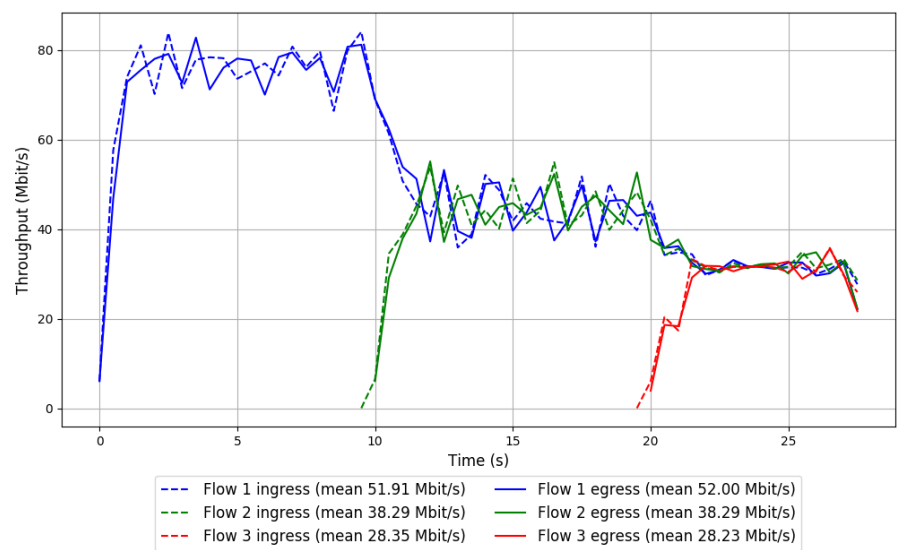
-- Flow 3:

Average throughput: 28.23 Mbit/s

95th percentile per-packet one-way delay: 108.503 ms

Loss rate: 2.50%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 08:45:57

End at: 2018-01-02 08:46:27

Local clock offset: -0.008 ms

Remote clock offset: 2.576 ms

Below is generated by plot.py at 2018-01-02 13:56:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 108.219 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 106.957 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 38.21 Mbit/s

95th percentile per-packet one-way delay: 108.006 ms

Loss rate: 0.93%

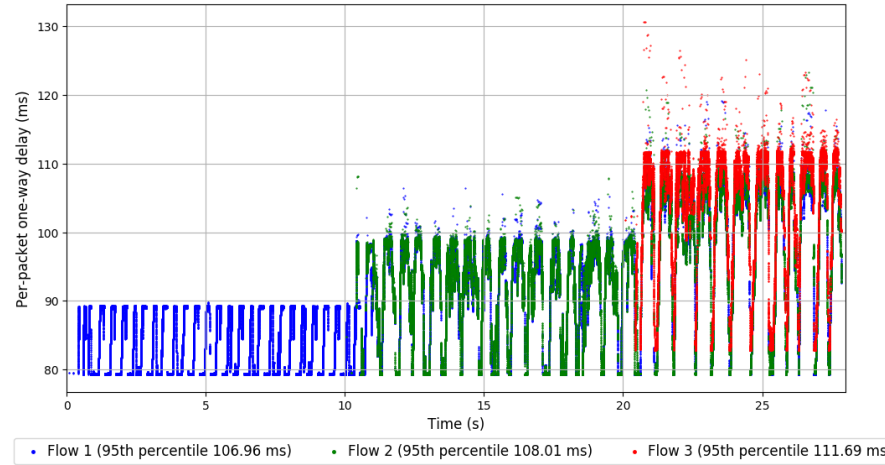
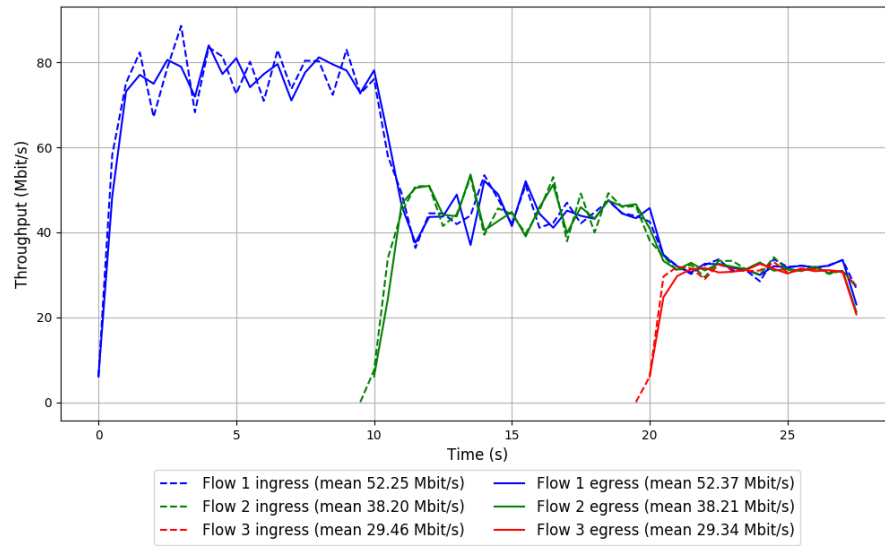
-- Flow 3:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 111.691 ms

Loss rate: 2.94%

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

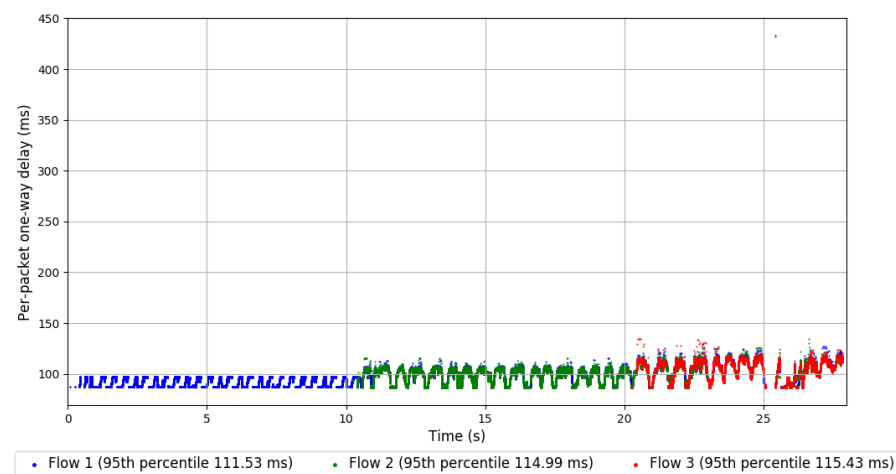
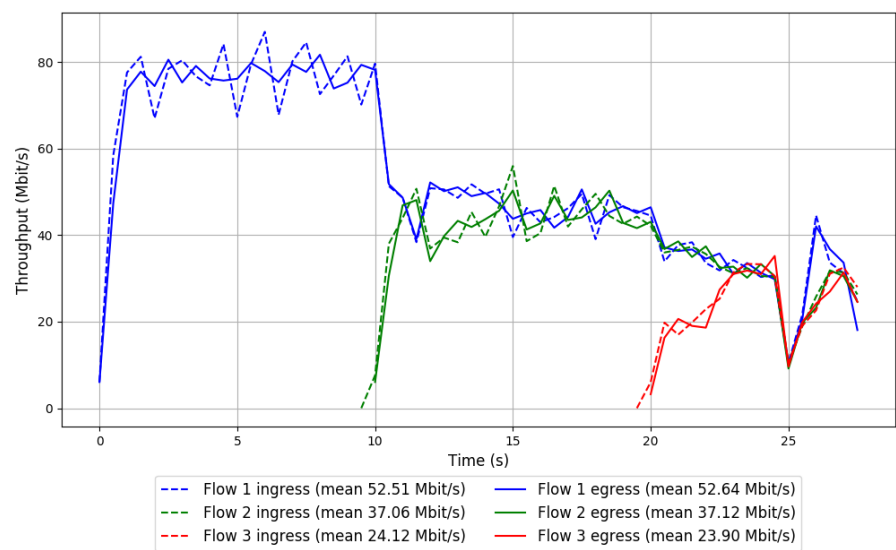


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 09:05:31
End at: 2018-01-02 09:06:01
Local clock offset: -0.057 ms
Remote clock offset: -3.142 ms

Below is generated by plot.py at 2018-01-02 13:56:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.09 Mbit/s
95th percentile per-packet one-way delay: 114.501 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 111.525 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 114.992 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 115.434 ms
Loss rate: 3.21%

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

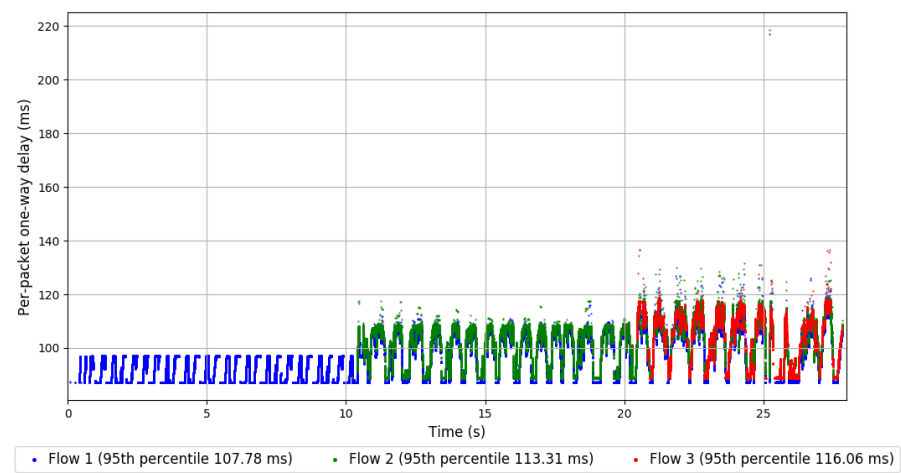
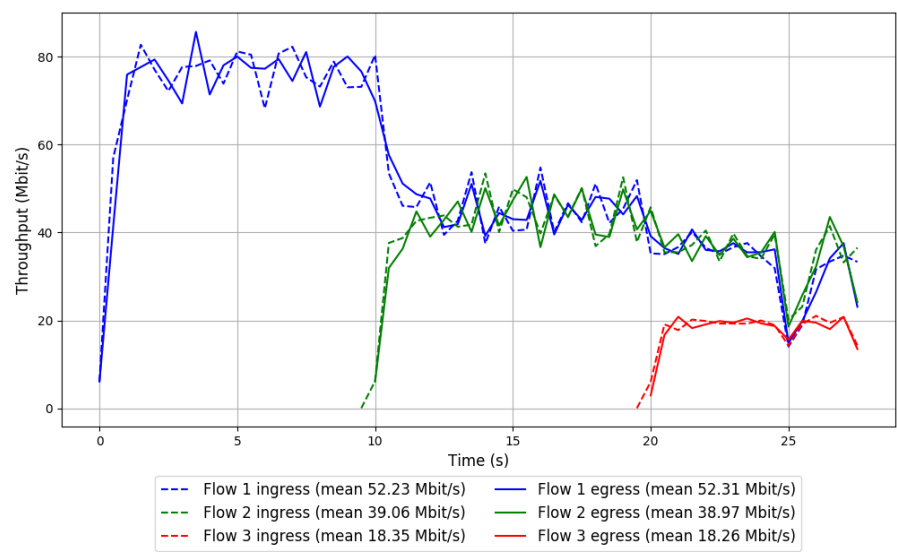


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 09:25:04
End at: 2018-01-02 09:25:34
Local clock offset: -0.171 ms
Remote clock offset: -3.445 ms

Below is generated by plot.py at 2018-01-02 13:56:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.37 Mbit/s
95th percentile per-packet one-way delay: 111.699 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 52.31 Mbit/s
95th percentile per-packet one-way delay: 107.779 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 113.312 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 18.26 Mbit/s
95th percentile per-packet one-way delay: 116.055 ms
Loss rate: 1.98%

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

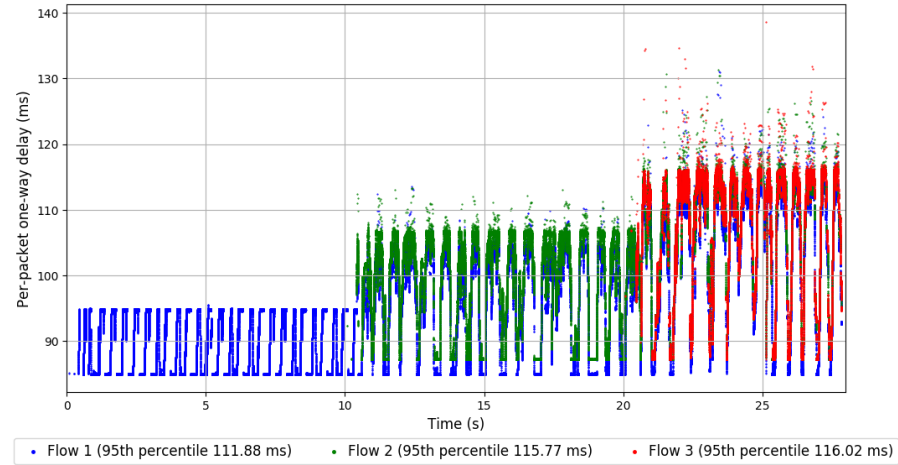
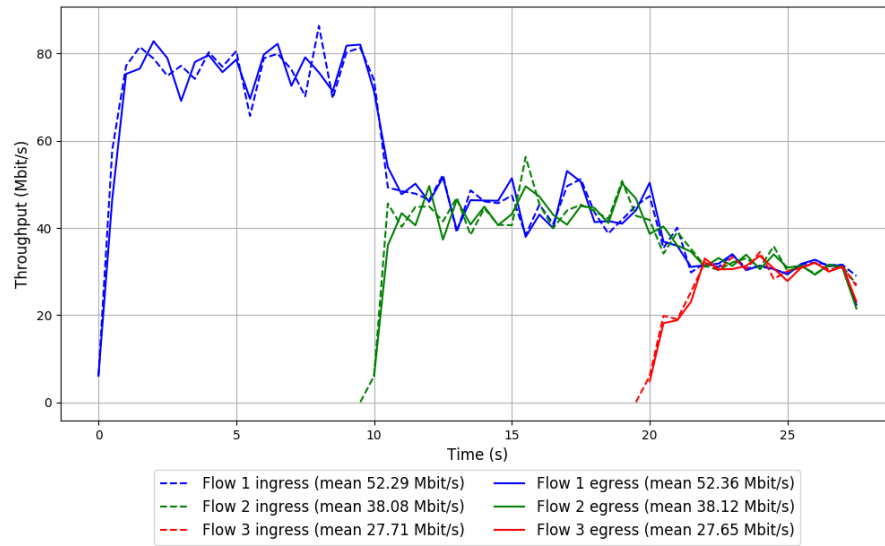


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 09:44:37
End at: 2018-01-02 09:45:07
Local clock offset: -0.199 ms
Remote clock offset: -1.712 ms

Below is generated by plot.py at 2018-01-02 13:56:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.50 Mbit/s
95th percentile per-packet one-way delay: 114.794 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 52.36 Mbit/s
95th percentile per-packet one-way delay: 111.876 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 115.767 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 27.65 Mbit/s
95th percentile per-packet one-way delay: 116.018 ms
Loss rate: 2.49%

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

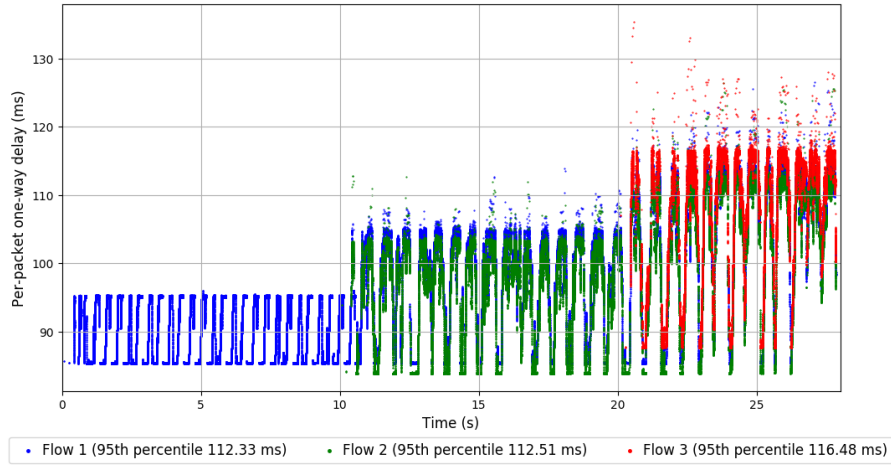
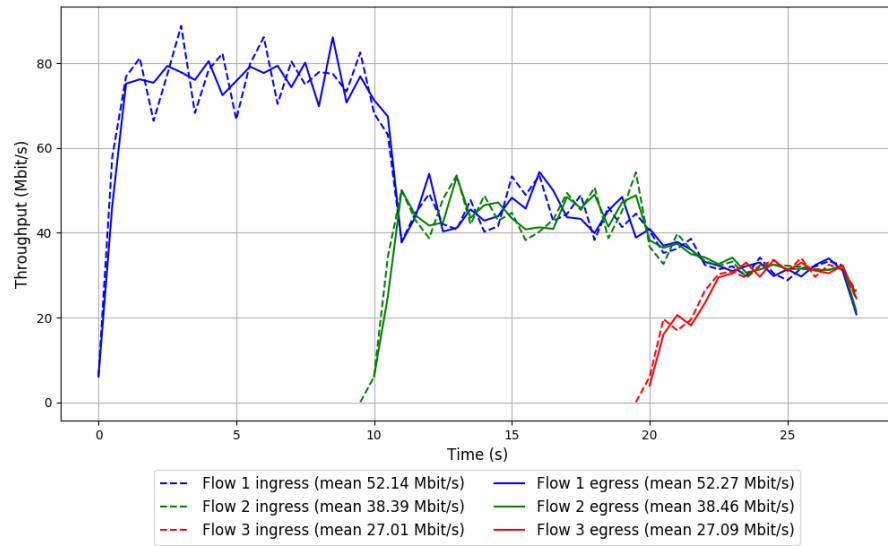


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 10:04:15
End at: 2018-01-02 10:04:45
Local clock offset: -0.26 ms
Remote clock offset: -1.969 ms

Below is generated by plot.py at 2018-01-02 13:58:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 113.942 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 52.27 Mbit/s
95th percentile per-packet one-way delay: 112.326 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 112.510 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 27.09 Mbit/s
95th percentile per-packet one-way delay: 116.479 ms
Loss rate: 2.08%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 10:23:47

End at: 2018-01-02 10:24:17

Local clock offset: -0.348 ms

Remote clock offset: 3.665 ms

Below is generated by plot.py at 2018-01-02 13:58:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 107.926 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 52.29 Mbit/s

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

Loss rate: 0.43%

-- Flow 2:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 110.207 ms

Loss rate: 0.78%

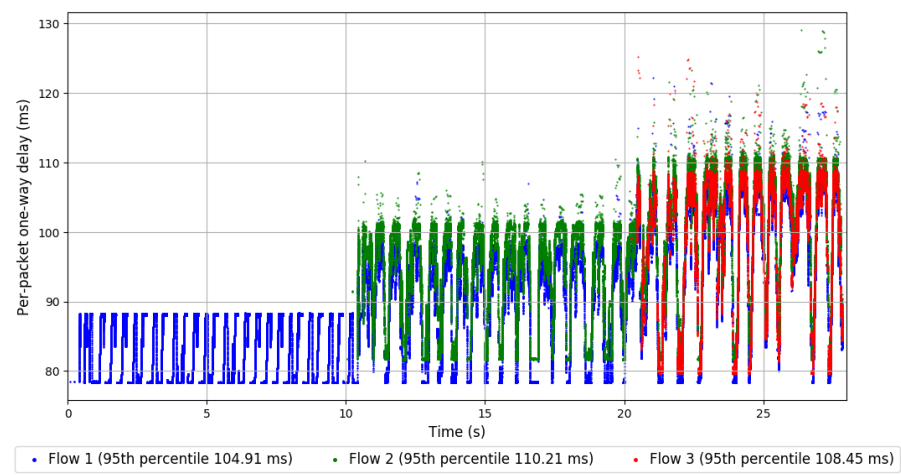
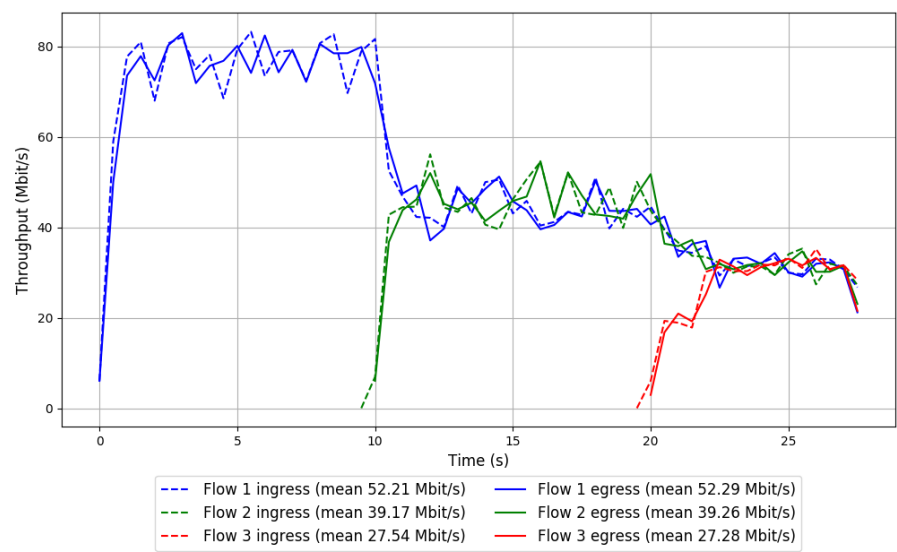
-- Flow 3:

Average throughput: 27.28 Mbit/s

95th percentile per-packet one-way delay: 108.454 ms

Loss rate: 3.15%

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

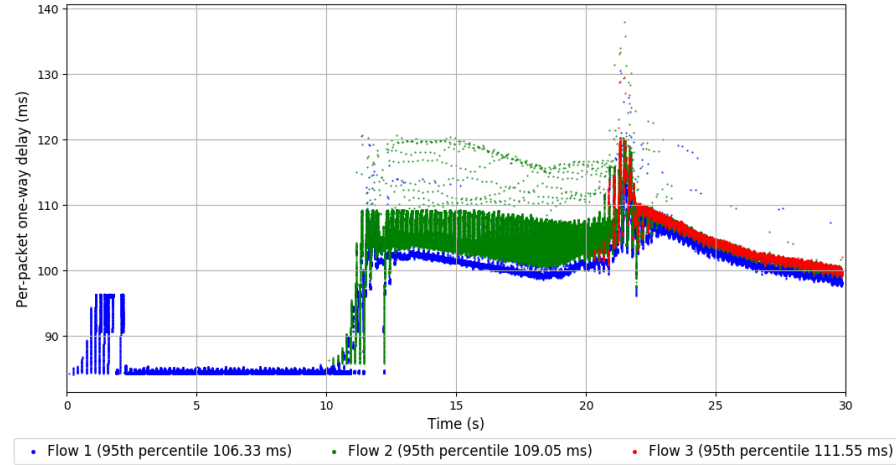
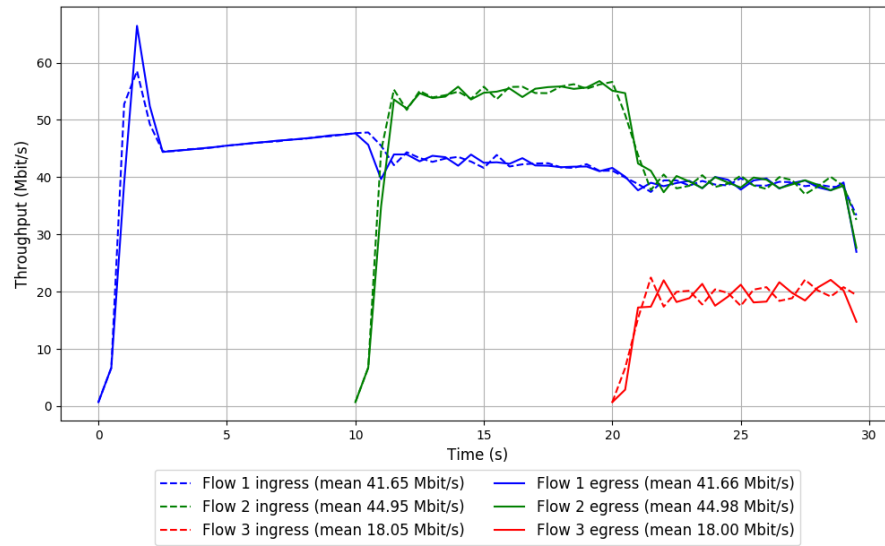


Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 07:34:26
End at: 2018-01-02 07:34:56
Local clock offset: 0.439 ms
Remote clock offset: -3.756 ms

Below is generated by plot.py at 2018-01-02 13:58:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.39 Mbit/s
95th percentile per-packet one-way delay: 108.591 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 41.66 Mbit/s
95th percentile per-packet one-way delay: 106.327 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 109.053 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 111.549 ms
Loss rate: 2.13%

Run 1: Report of TCP Vegas — Data Link

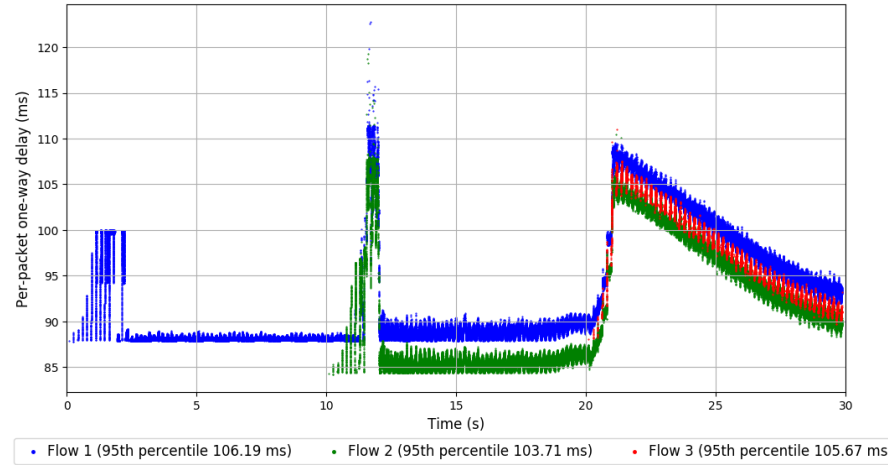
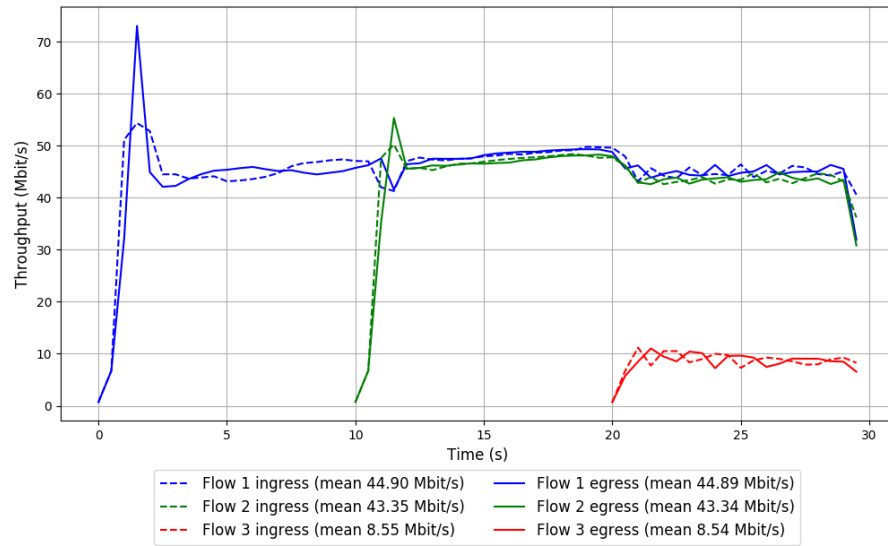


Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 07:53:59
End at: 2018-01-02 07:54:29
Local clock offset: 0.312 ms
Remote clock offset: -3.008 ms

Below is generated by plot.py at 2018-01-02 13:58:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.45 Mbit/s
95th percentile per-packet one-way delay: 105.166 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 44.89 Mbit/s
95th percentile per-packet one-way delay: 106.195 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 43.34 Mbit/s
95th percentile per-packet one-way delay: 103.708 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 105.667 ms
Loss rate: 1.83%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 08:13:31

End at: 2018-01-02 08:14:01

Local clock offset: 0.161 ms

Remote clock offset: 3.04 ms

Below is generated by plot.py at 2018-01-02 13:58:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 99.588 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 45.80 Mbit/s

95th percentile per-packet one-way delay: 98.314 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 42.79 Mbit/s

95th percentile per-packet one-way delay: 100.760 ms

Loss rate: 0.86%

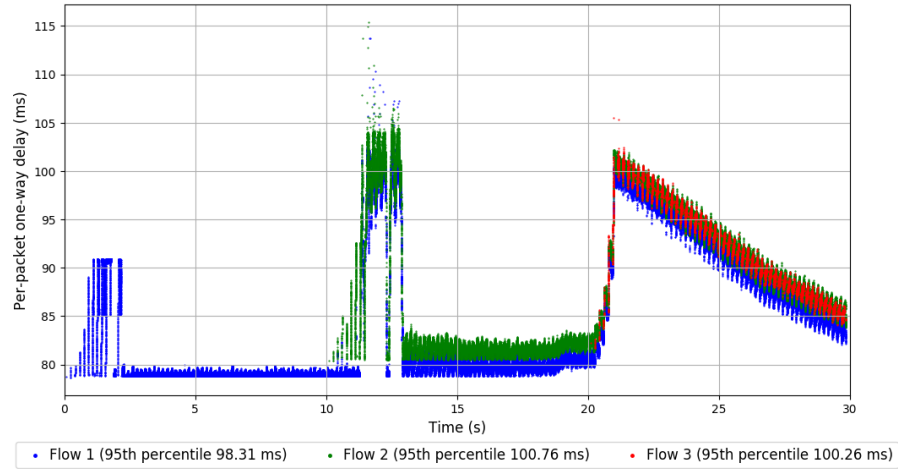
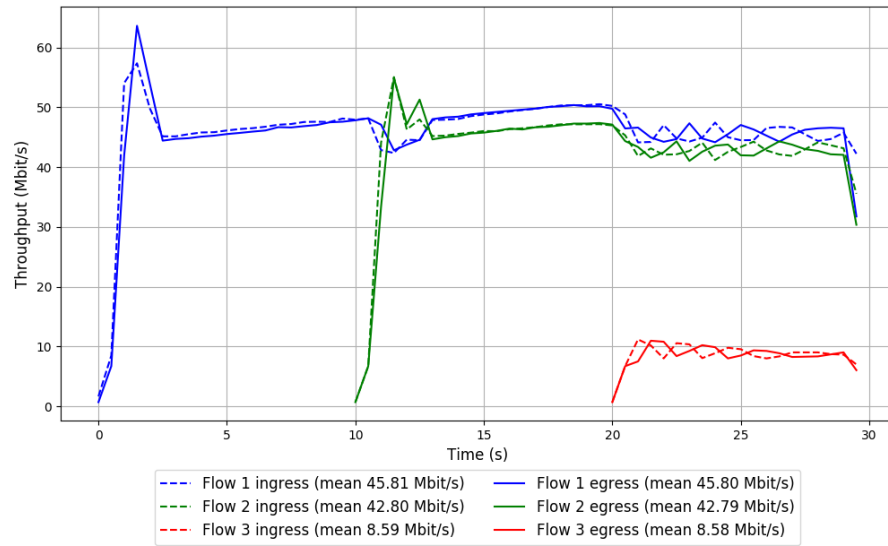
-- Flow 3:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 100.258 ms

Loss rate: 1.80%

Run 3: Report of TCP Vegas — Data Link

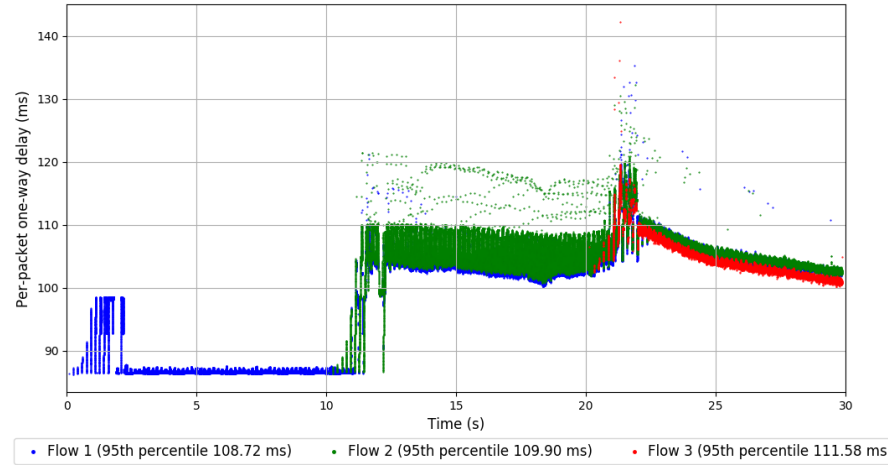
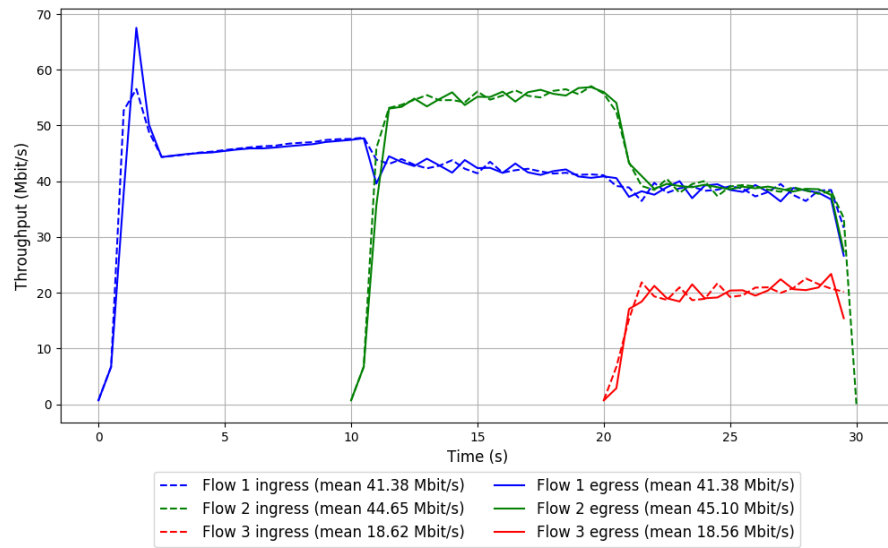


Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 08:33:06
End at: 2018-01-02 08:33:36
Local clock offset: 0.116 ms
Remote clock offset: -2.629 ms

Below is generated by plot.py at 2018-01-02 13:58:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 109.597 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 108.716 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 45.10 Mbit/s
95th percentile per-packet one-way delay: 109.898 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 18.56 Mbit/s
95th percentile per-packet one-way delay: 111.581 ms
Loss rate: 2.16%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 08:52:41

End at: 2018-01-02 08:53:11

Local clock offset: -0.071 ms

Remote clock offset: 3.142 ms

Below is generated by plot.py at 2018-01-02 13:58:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.46 Mbit/s

95th percentile per-packet one-way delay: 99.711 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 98.663 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 100.873 ms

Loss rate: 0.87%

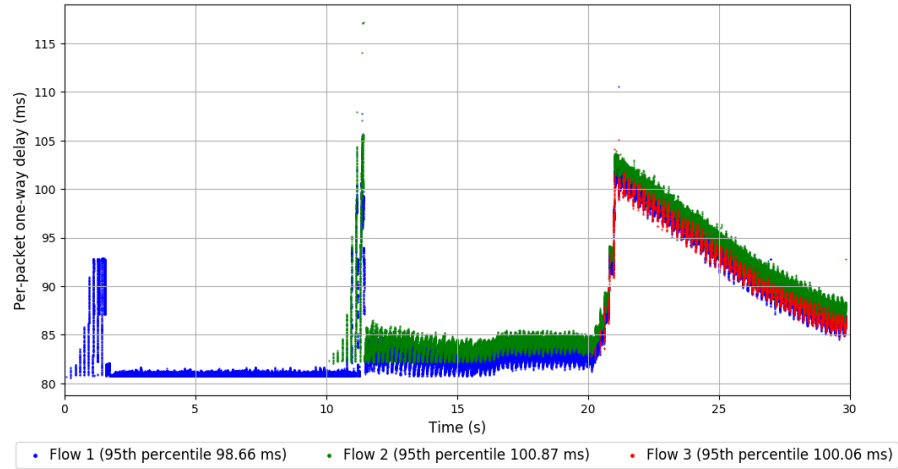
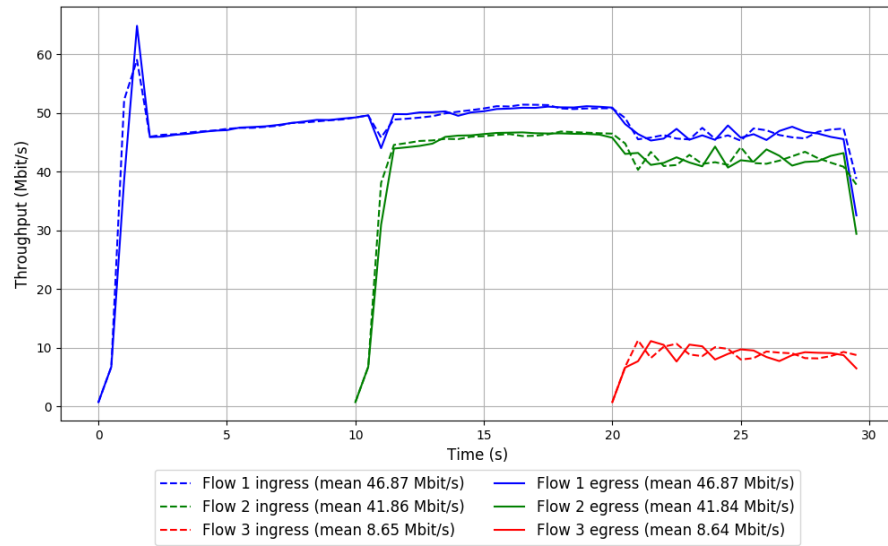
-- Flow 3:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 100.055 ms

Loss rate: 1.82%

Run 5: Report of TCP Vegas — Data Link

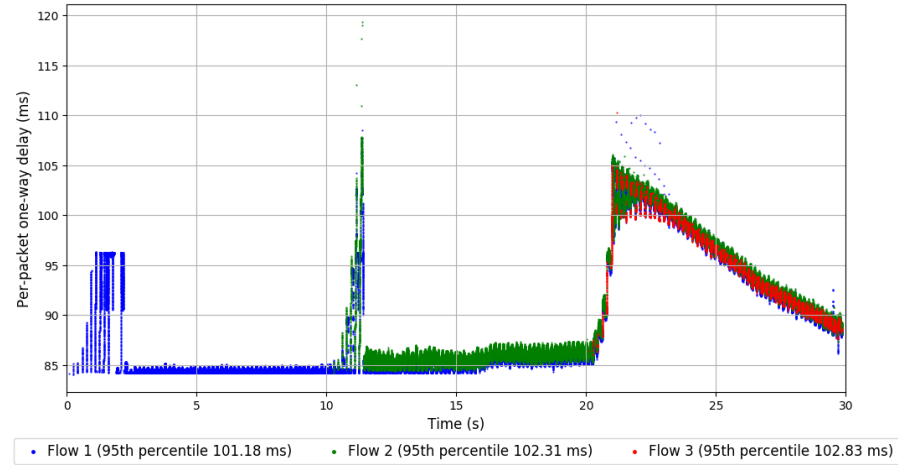
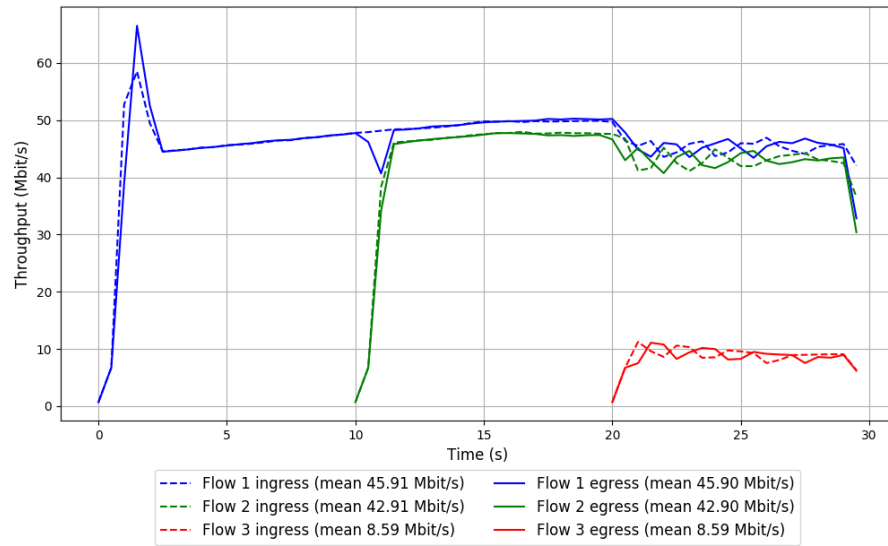


Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 09:12:14
End at: 2018-01-02 09:12:44
Local clock offset: -0.092 ms
Remote clock offset: -2.379 ms

Below is generated by plot.py at 2018-01-02 13:58:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.19 Mbit/s
95th percentile per-packet one-way delay: 101.765 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 101.181 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 42.90 Mbit/s
95th percentile per-packet one-way delay: 102.311 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 102.835 ms
Loss rate: 1.76%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 09:31:46

End at: 2018-01-02 09:32:16

Local clock offset: -0.201 ms

Remote clock offset: -2.15 ms

Below is generated by plot.py at 2018-01-02 13:58:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 119.695 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 39.47 Mbit/s

95th percentile per-packet one-way delay: 120.508 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 42.77 Mbit/s

95th percentile per-packet one-way delay: 118.535 ms

Loss rate: 0.82%

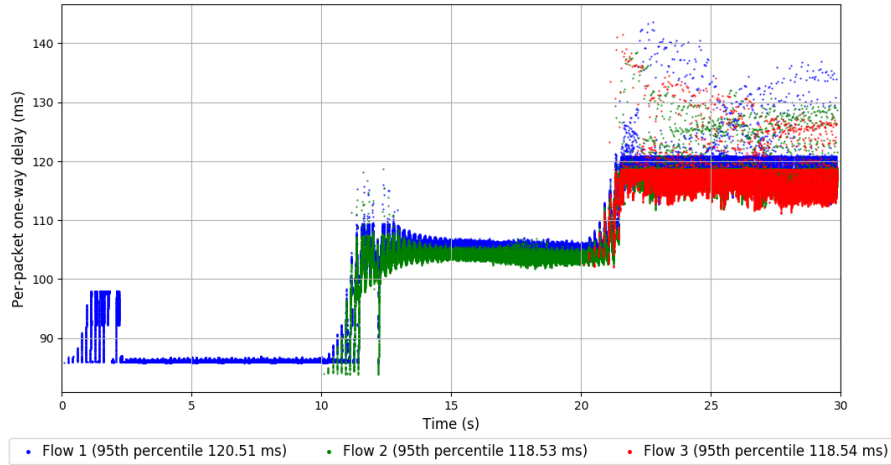
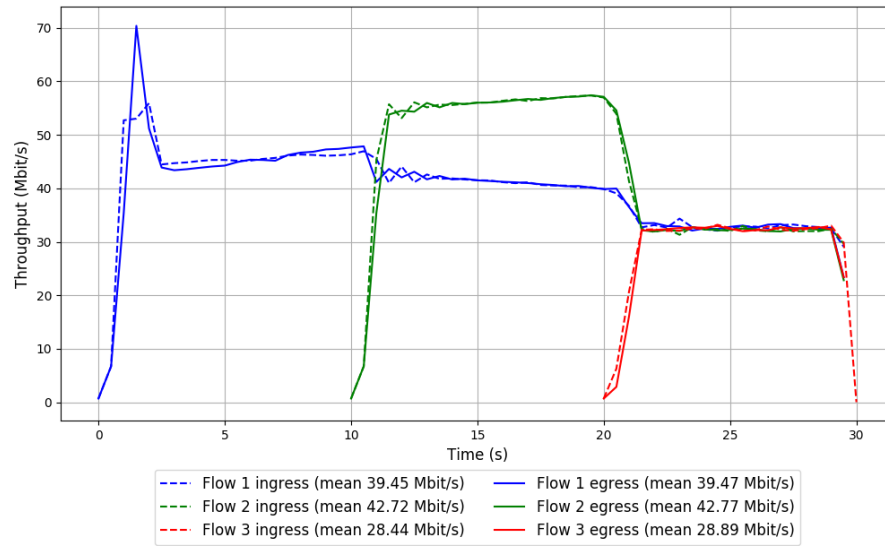
-- Flow 3:

Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 118.538 ms

Loss rate: 2.45%

Run 7: Report of TCP Vegas — Data Link

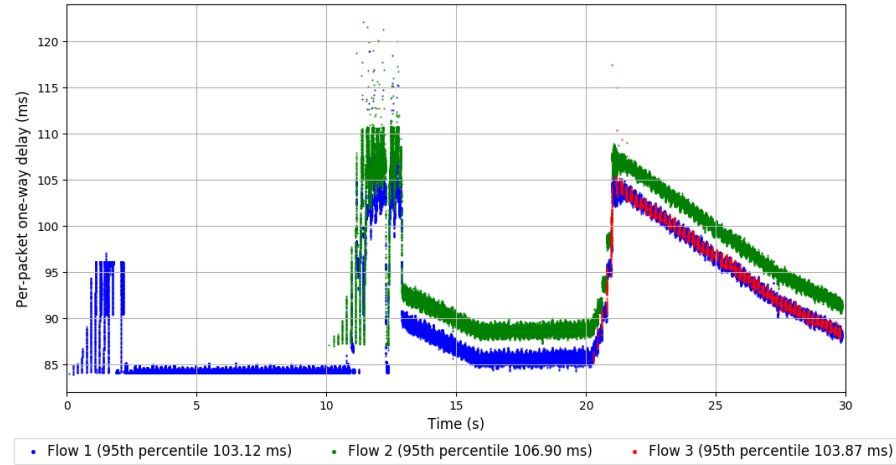
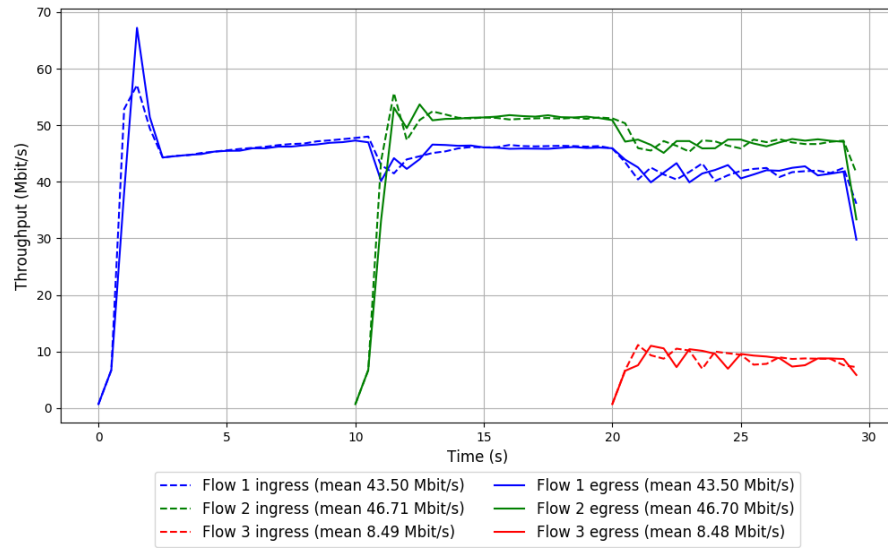


Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 09:51:21
End at: 2018-01-02 09:51:51
Local clock offset: -0.227 ms
Remote clock offset: -2.057 ms

Below is generated by plot.py at 2018-01-02 13:58:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.25 Mbit/s
95th percentile per-packet one-way delay: 105.580 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 43.50 Mbit/s
95th percentile per-packet one-way delay: 103.121 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 46.70 Mbit/s
95th percentile per-packet one-way delay: 106.899 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 103.873 ms
Loss rate: 1.78%

Run 8: Report of TCP Vegas — Data Link

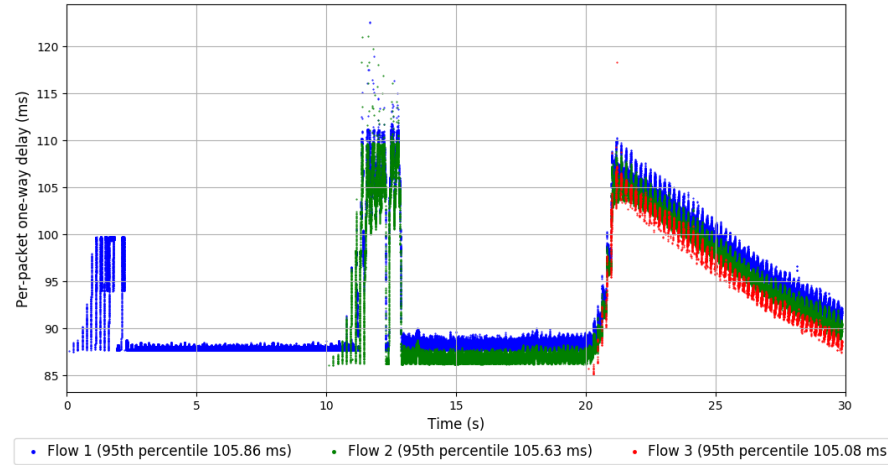
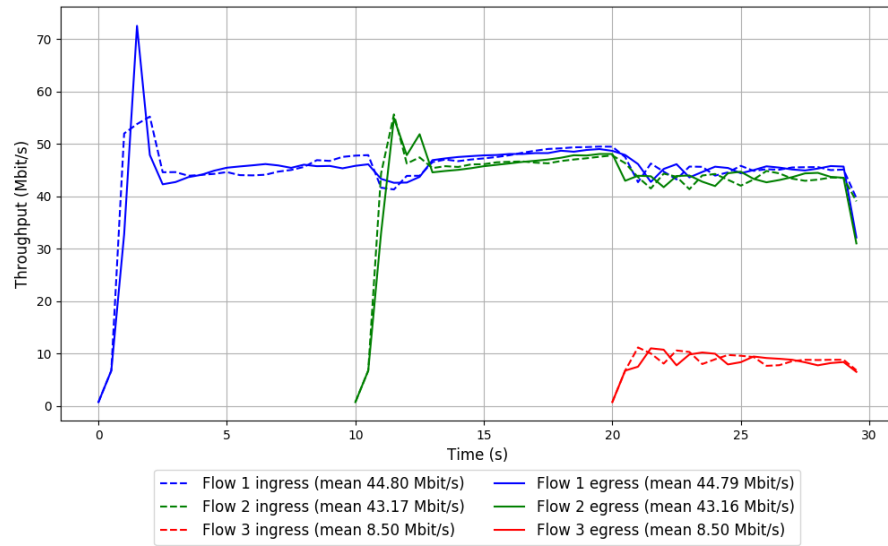


Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 10:10:58
End at: 2018-01-02 10:11:28
Local clock offset: -0.292 ms
Remote clock offset: -2.305 ms

Below is generated by plot.py at 2018-01-02 13:58:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.22 Mbit/s
95th percentile per-packet one-way delay: 105.761 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 44.79 Mbit/s
95th percentile per-packet one-way delay: 105.861 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 105.631 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 105.083 ms
Loss rate: 1.72%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 10:30:29

End at: 2018-01-02 10:30:59

Local clock offset: -0.348 ms

Remote clock offset: 3.576 ms

Below is generated by plot.py at 2018-01-02 13:58:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 97.142 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 97.457 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 42.95 Mbit/s

95th percentile per-packet one-way delay: 96.468 ms

Loss rate: 0.85%

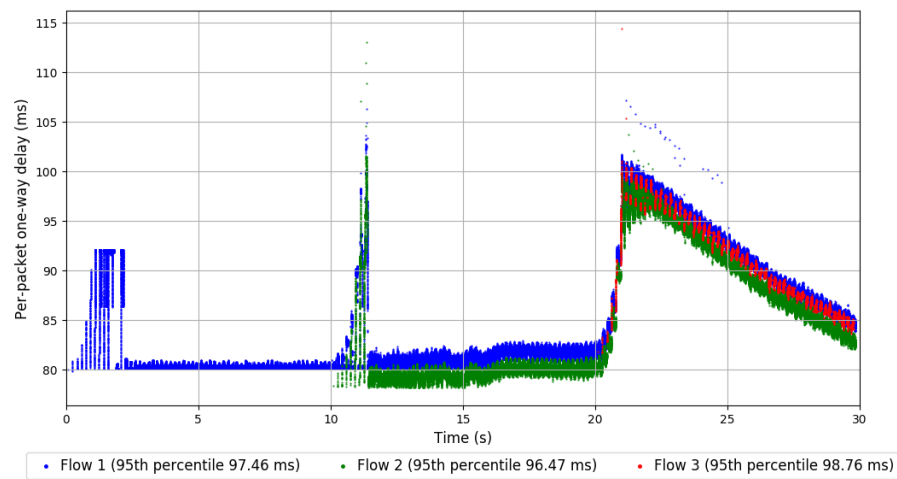
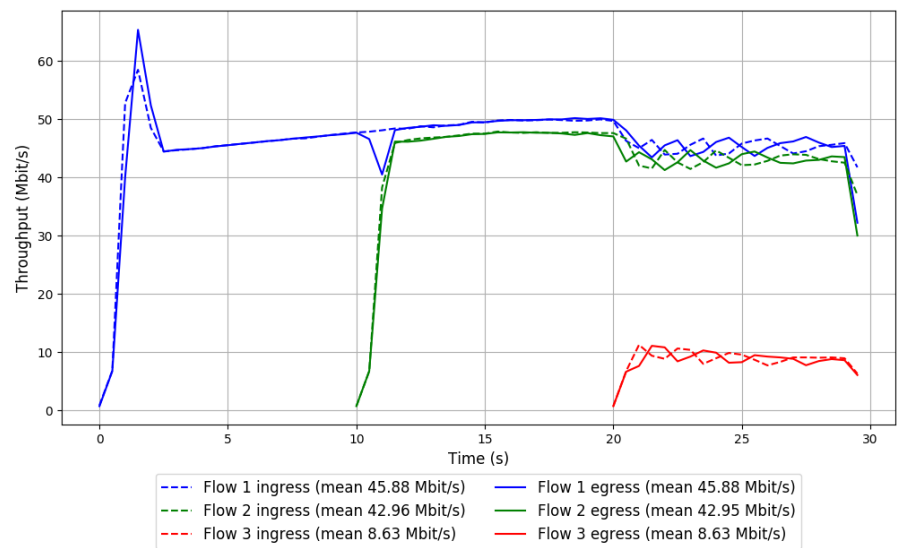
-- Flow 3:

Average throughput: 8.63 Mbit/s

95th percentile per-packet one-way delay: 98.762 ms

Loss rate: 1.80%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-02 07:31:45

End at: 2018-01-02 07:32:15

Local clock offset: 0.498 ms

Remote clock offset: 0.952 ms

Below is generated by plot.py at 2018-01-02 13:58:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.42 Mbit/s

95th percentile per-packet one-way delay: 113.440 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 39.76 Mbit/s

95th percentile per-packet one-way delay: 111.648 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 114.396 ms

Loss rate: 0.93%

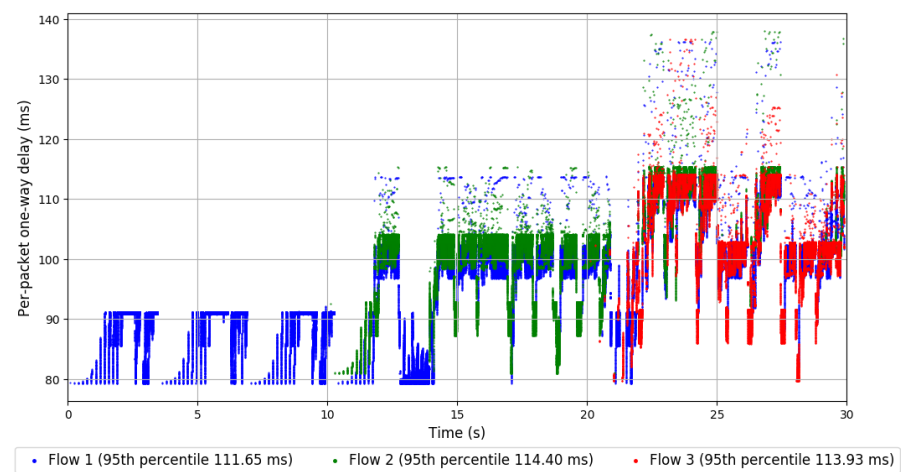
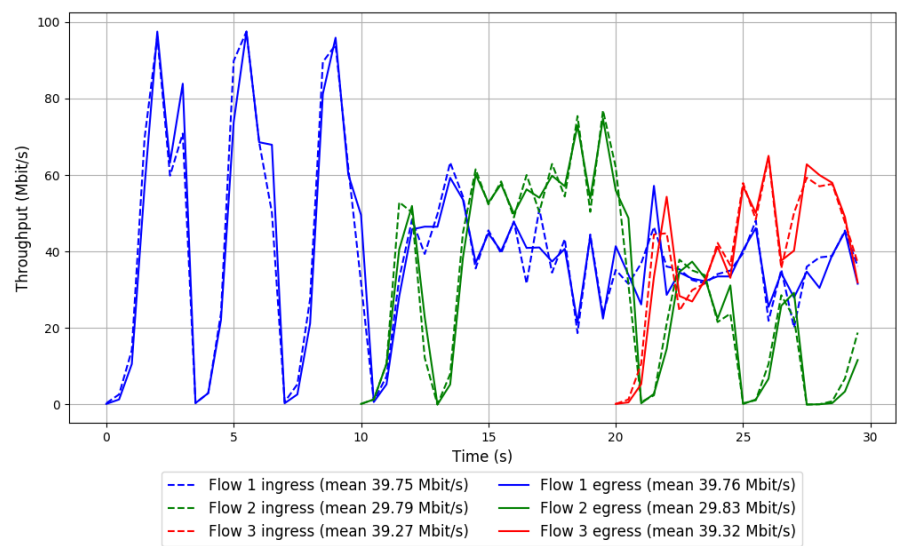
-- Flow 3:

Average throughput: 39.32 Mbit/s

95th percentile per-packet one-way delay: 113.930 ms

Loss rate: 1.79%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 07:51:18

End at: 2018-01-02 07:51:48

Local clock offset: 0.425 ms

Remote clock offset: 1.586 ms

Below is generated by plot.py at 2018-01-02 13:58:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 113.189 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 33.78 Mbit/s

95th percentile per-packet one-way delay: 109.709 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 113.217 ms

Loss rate: 1.11%

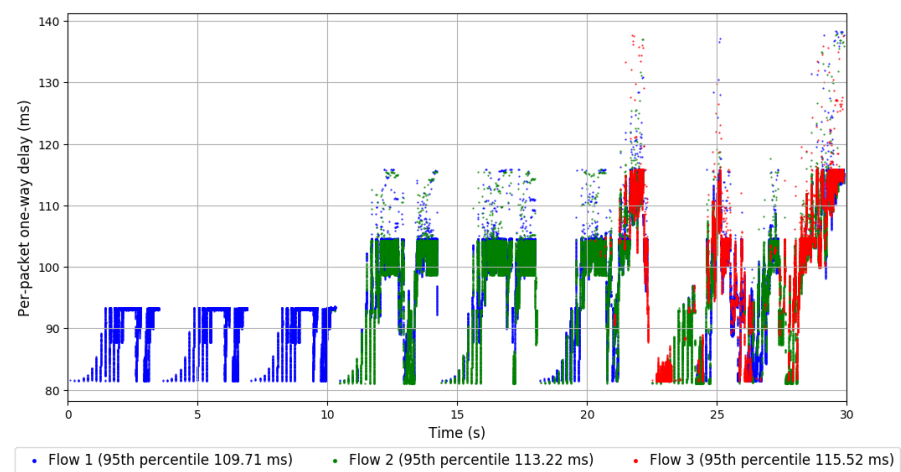
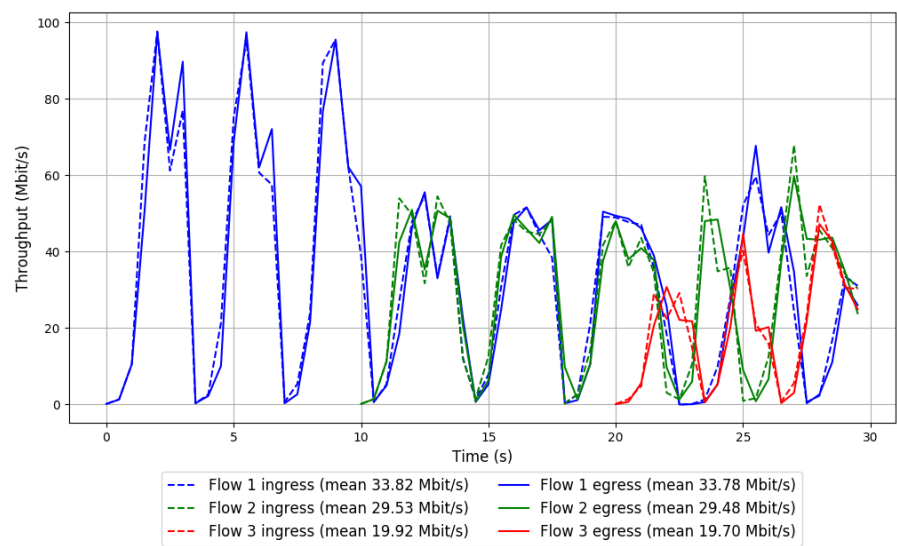
-- Flow 3:

Average throughput: 19.70 Mbit/s

95th percentile per-packet one-way delay: 115.515 ms

Loss rate: 3.27%

Run 2: Report of Verus — Data Link

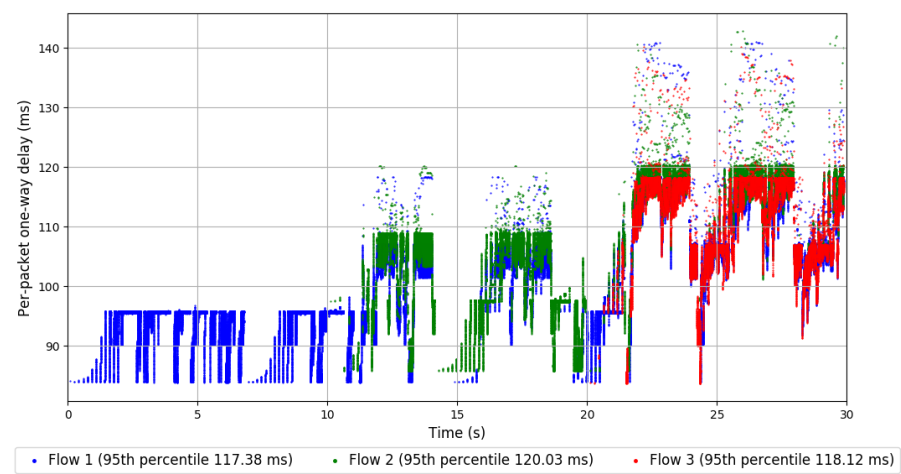
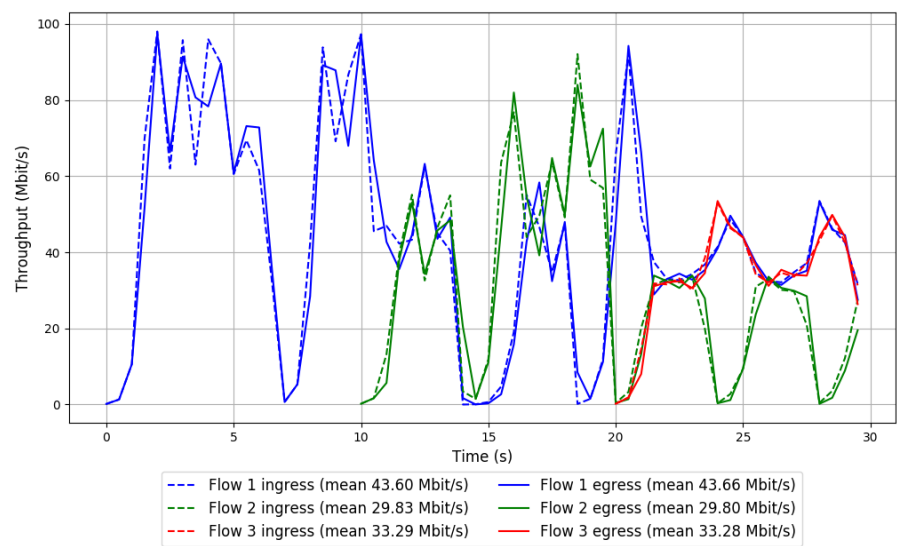


Run 3: Statistics of Verus

Start at: 2018-01-02 08:10:50
End at: 2018-01-02 08:11:20
Local clock offset: 0.187 ms
Remote clock offset: -2.129 ms

Below is generated by plot.py at 2018-01-02 13:59:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.32 Mbit/s
95th percentile per-packet one-way delay: 118.240 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 43.66 Mbit/s
95th percentile per-packet one-way delay: 117.382 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 29.80 Mbit/s
95th percentile per-packet one-way delay: 120.035 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 118.122 ms
Loss rate: 1.93%

Run 3: Report of Verus — Data Link

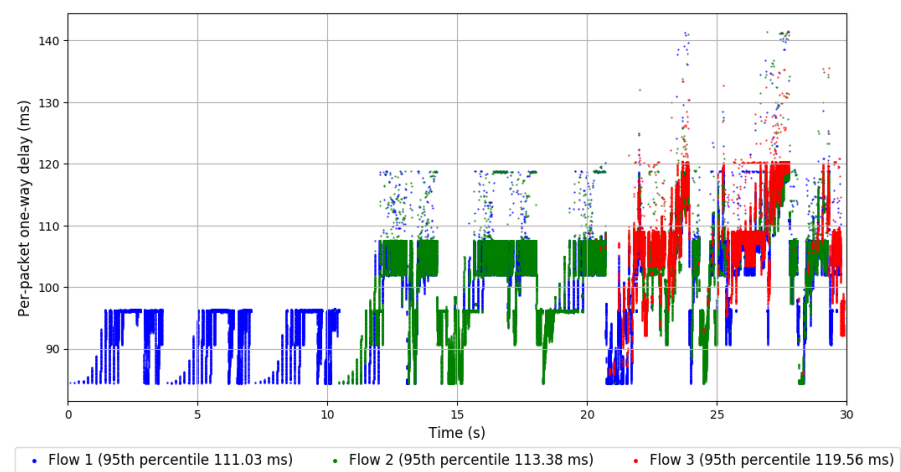
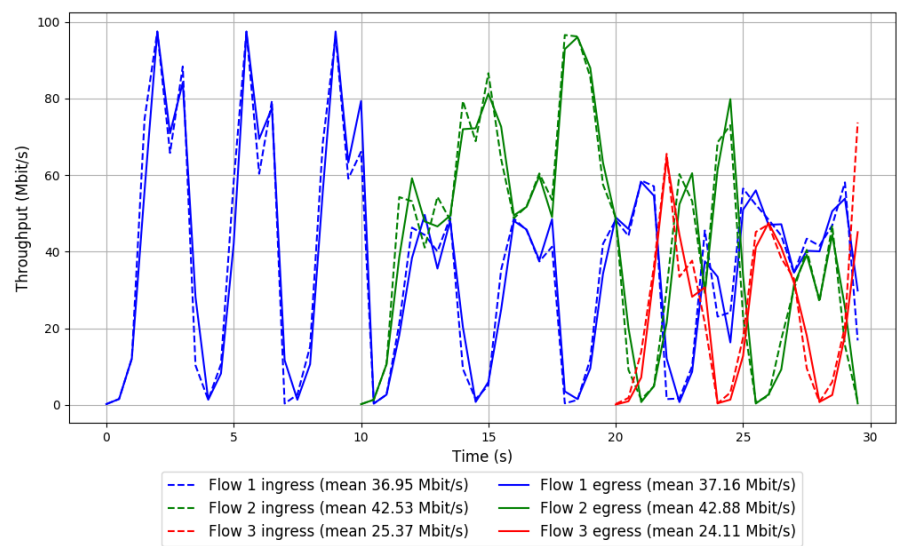


Run 4: Statistics of Verus

Start at: 2018-01-02 08:30:24
End at: 2018-01-02 08:30:54
Local clock offset: 0.056 ms
Remote clock offset: -2.216 ms

```
# Below is generated by plot.py at 2018-01-02 13:59:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.34 Mbit/s
95th percentile per-packet one-way delay: 114.605 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 37.16 Mbit/s
95th percentile per-packet one-way delay: 111.032 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.88 Mbit/s
95th percentile per-packet one-way delay: 113.380 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 119.557 ms
Loss rate: 6.80%
```

Run 4: Report of Verus — Data Link

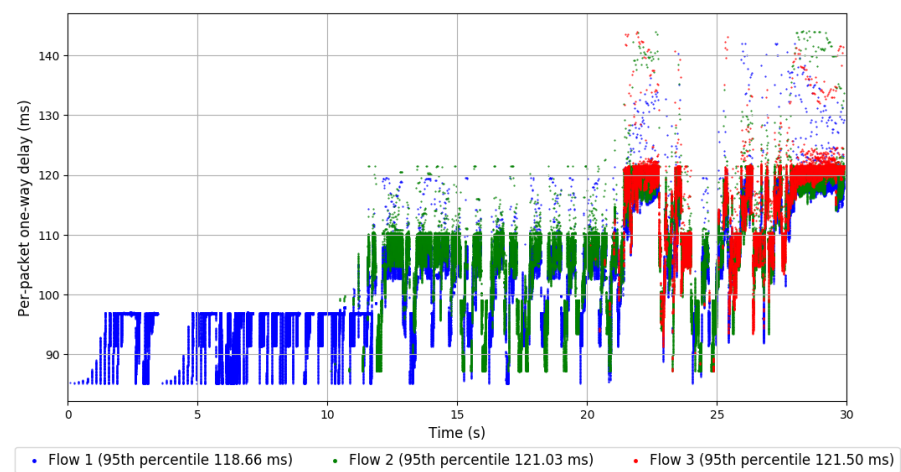
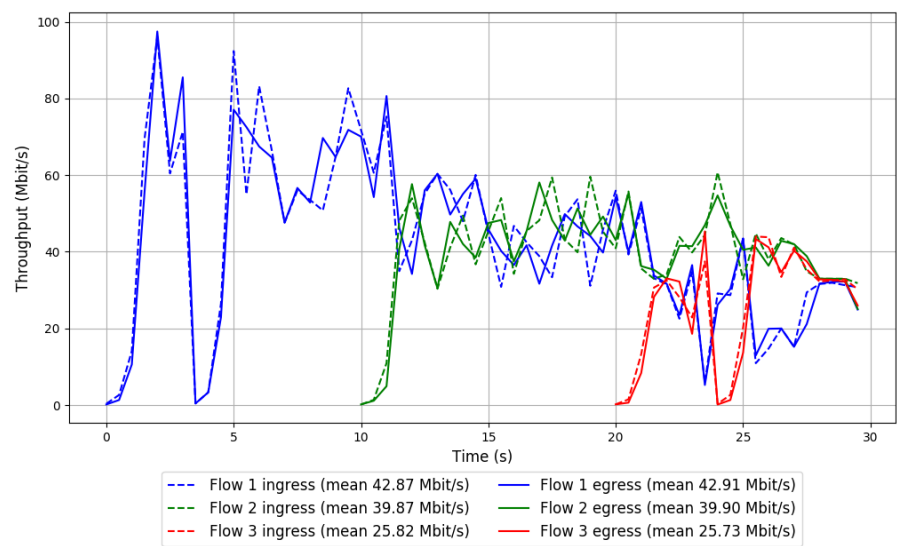


Run 5: Statistics of Verus

Start at: 2018-01-02 08:49:59
End at: 2018-01-02 08:50:29
Local clock offset: 0.021 ms
Remote clock offset: -2.957 ms

Below is generated by plot.py at 2018-01-02 13:59:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.81 Mbit/s
95th percentile per-packet one-way delay: 120.668 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 42.91 Mbit/s
95th percentile per-packet one-way delay: 118.660 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 121.026 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 25.73 Mbit/s
95th percentile per-packet one-way delay: 121.500 ms
Loss rate: 2.51%

Run 5: Report of Verus — Data Link

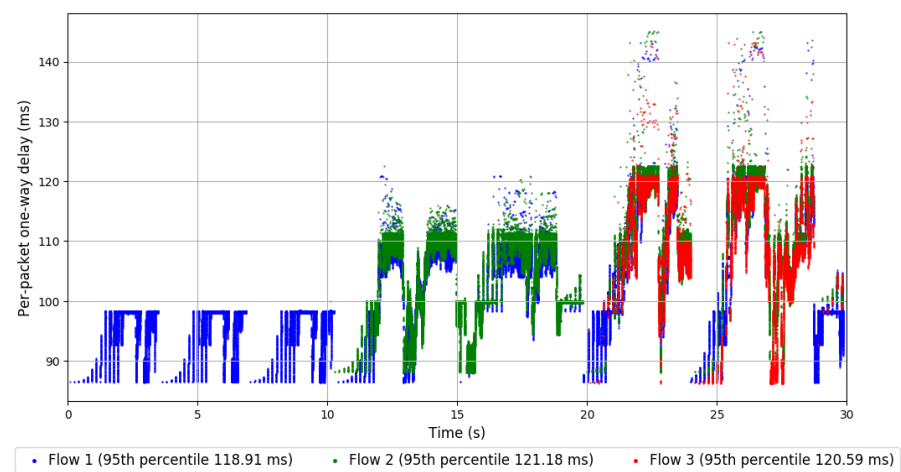
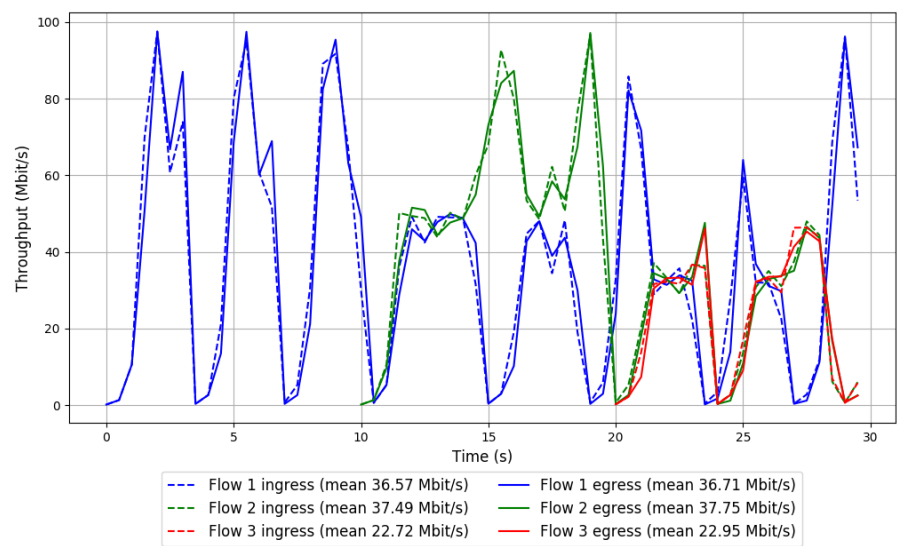


Run 6: Statistics of Verus

Start at: 2018-01-02 09:09:33
End at: 2018-01-02 09:10:03
Local clock offset: -0.08 ms
Remote clock offset: -2.481 ms

Below is generated by plot.py at 2018-01-02 13:59:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.16 Mbit/s
95th percentile per-packet one-way delay: 120.505 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 36.71 Mbit/s
95th percentile per-packet one-way delay: 118.913 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 37.75 Mbit/s
95th percentile per-packet one-way delay: 121.183 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 120.595 ms
Loss rate: 0.74%

Run 6: Report of Verus — Data Link

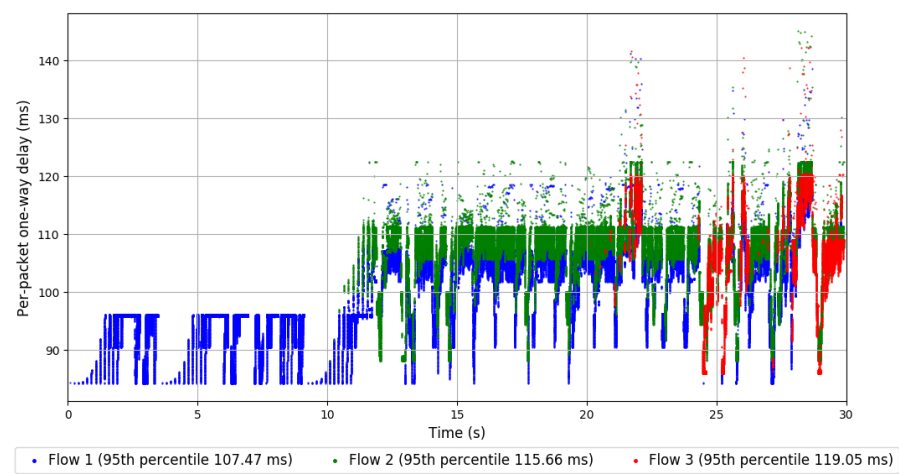
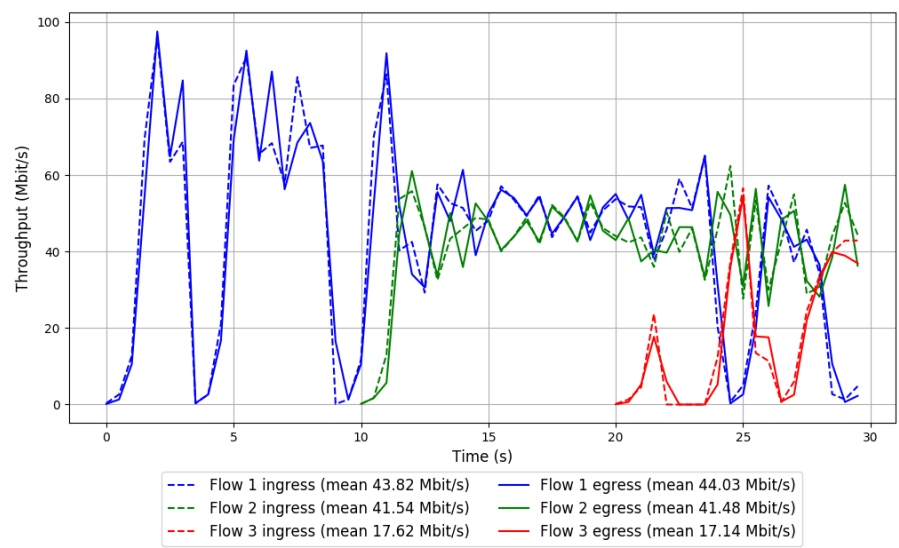


Run 7: Statistics of Verus

Start at: 2018-01-02 09:29:05
End at: 2018-01-02 09:29:35
Local clock offset: -0.116 ms
Remote clock offset: -2.594 ms

Below is generated by plot.py at 2018-01-02 13:59:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.01 Mbit/s
95th percentile per-packet one-way delay: 113.305 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 44.03 Mbit/s
95th percentile per-packet one-way delay: 107.467 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 41.48 Mbit/s
95th percentile per-packet one-way delay: 115.662 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 17.14 Mbit/s
95th percentile per-packet one-way delay: 119.045 ms
Loss rate: 4.71%

Run 7: Report of Verus — Data Link

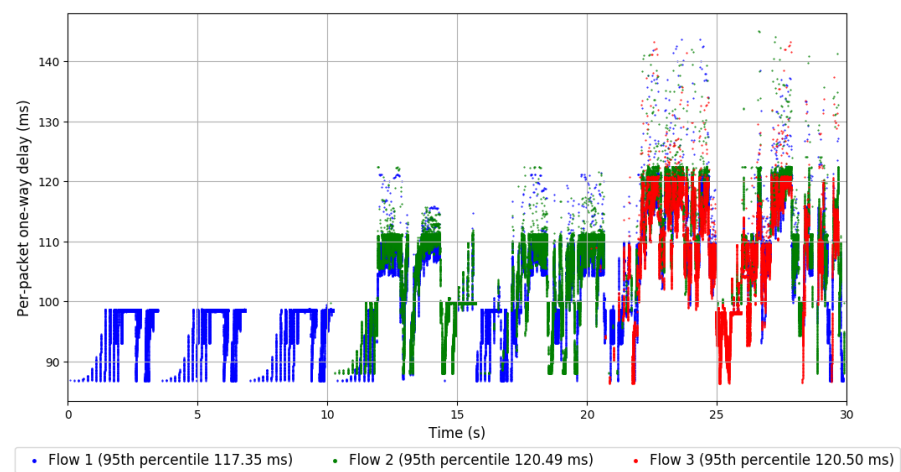
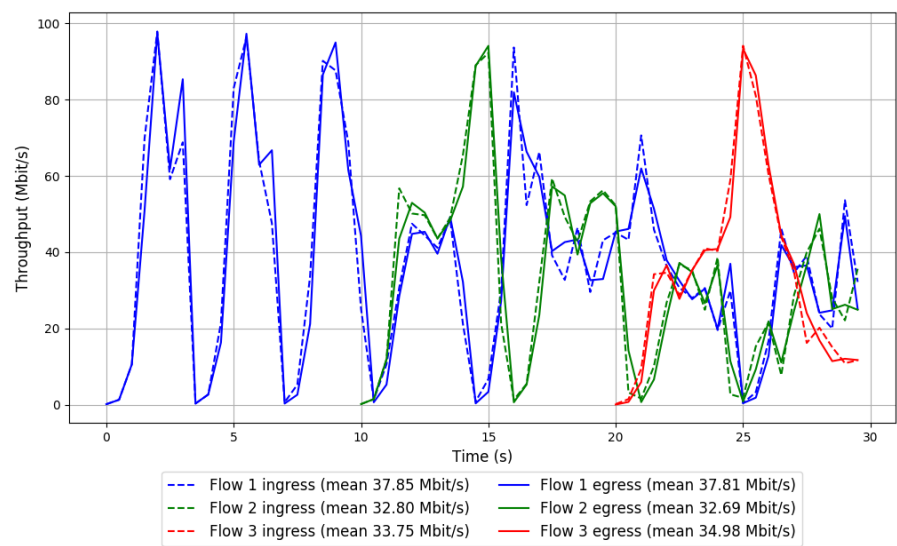


Run 8: Statistics of Verus

Start at: 2018-01-02 09:48:39
End at: 2018-01-02 09:49:09
Local clock offset: -0.205 ms
Remote clock offset: -2.919 ms

Below is generated by plot.py at 2018-01-02 13:59:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 119.596 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 117.349 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 120.492 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 120.497 ms
Loss rate: 0.86%

Run 8: Report of Verus — Data Link

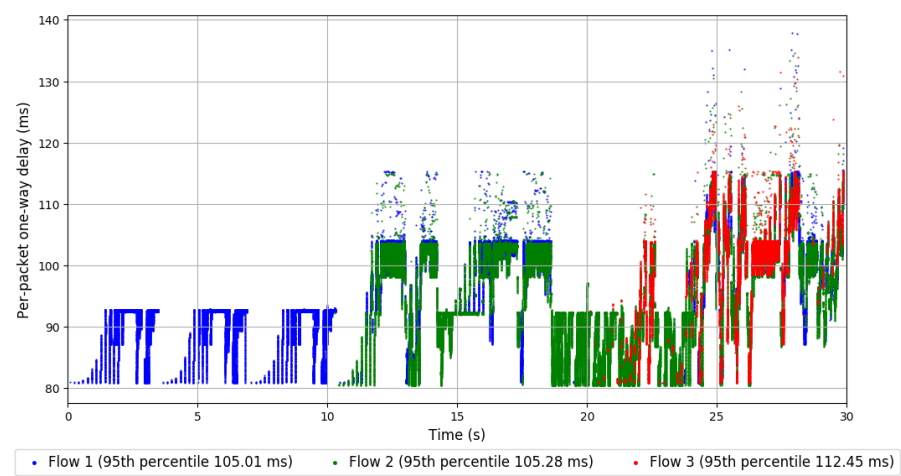
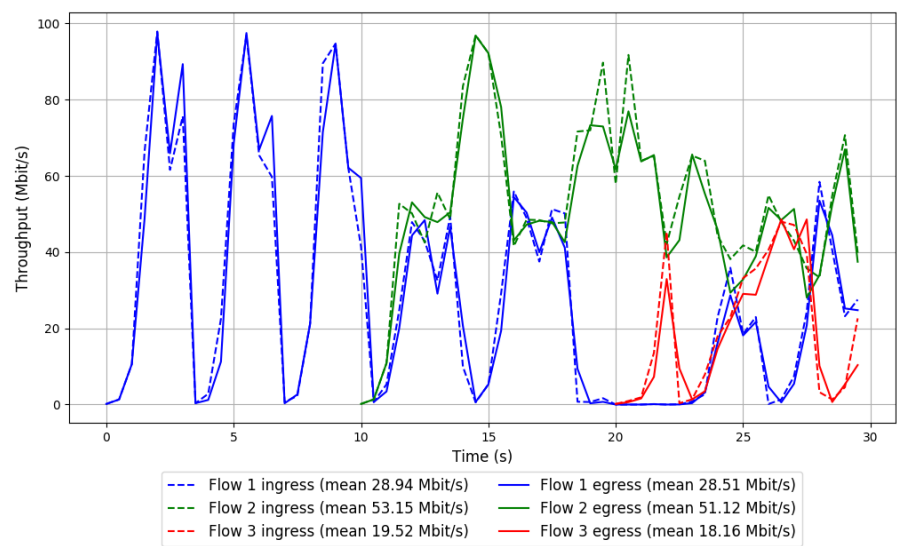


Run 9: Statistics of Verus

Start at: 2018-01-02 10:08:16
End at: 2018-01-02 10:08:46
Local clock offset: -0.288 ms
Remote clock offset: 2.984 ms

Below is generated by plot.py at 2018-01-02 13:59:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.36 Mbit/s
95th percentile per-packet one-way delay: 107.577 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 105.009 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 105.281 ms
Loss rate: 4.78%
-- Flow 3:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 112.449 ms
Loss rate: 8.64%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 10:27:48

End at: 2018-01-02 10:28:18

Local clock offset: -0.409 ms

Remote clock offset: 1.413 ms

Below is generated by plot.py at 2018-01-02 13:59:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.00 Mbit/s

95th percentile per-packet one-way delay: 116.252 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 114.481 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 116.174 ms

Loss rate: 1.19%

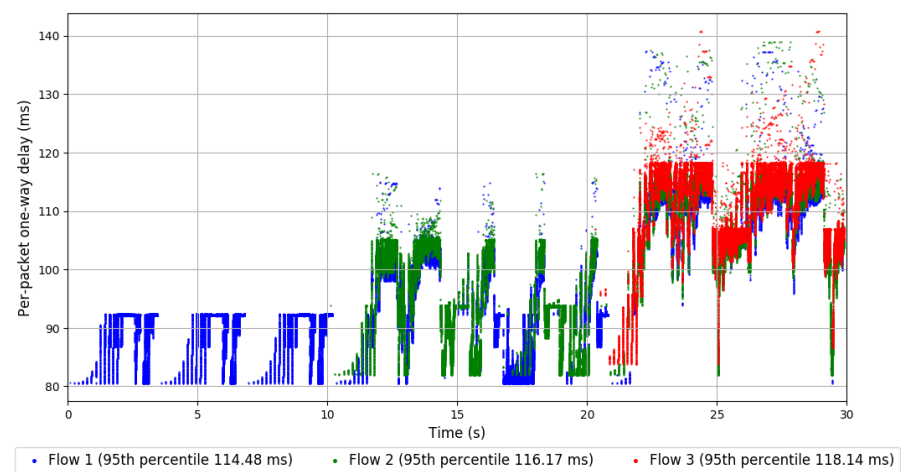
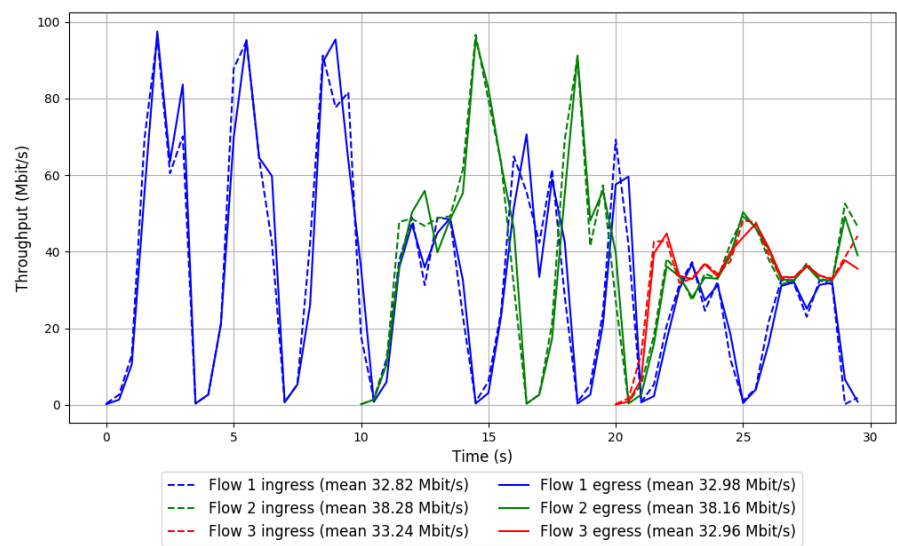
-- Flow 3:

Average throughput: 32.96 Mbit/s

95th percentile per-packet one-way delay: 118.144 ms

Loss rate: 2.71%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-02 07:33:04

End at: 2018-01-02 07:33:34

Local clock offset: 0.502 ms

Remote clock offset: 0.641 ms

Below is generated by plot.py at 2018-01-02 14:01:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 93.953 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 93.578 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 95.427 ms

Loss rate: 1.15%

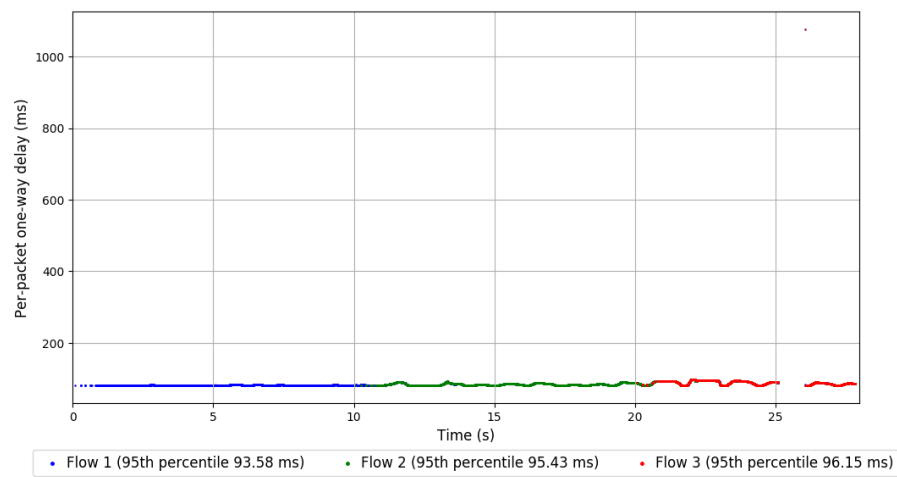
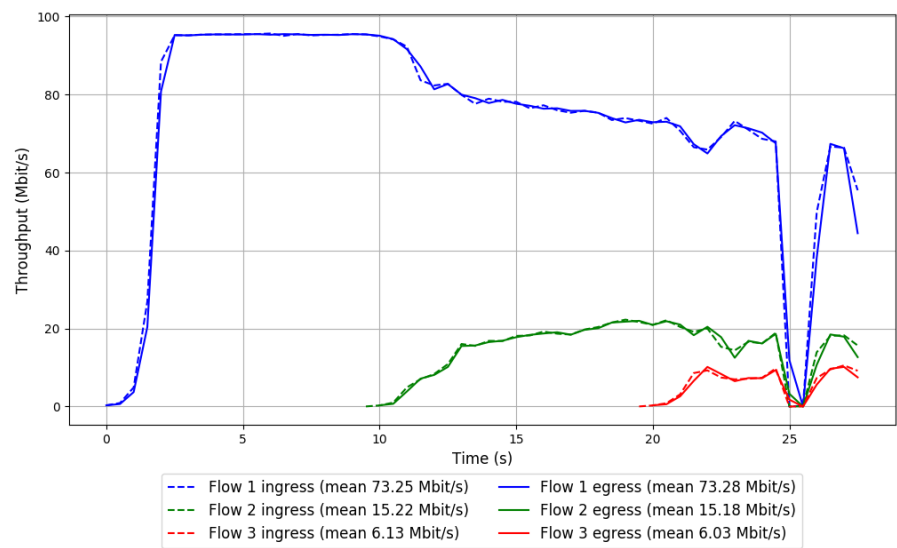
-- Flow 3:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 96.154 ms

Loss rate: 3.75%

Run 1: Report of Copa — Data Link

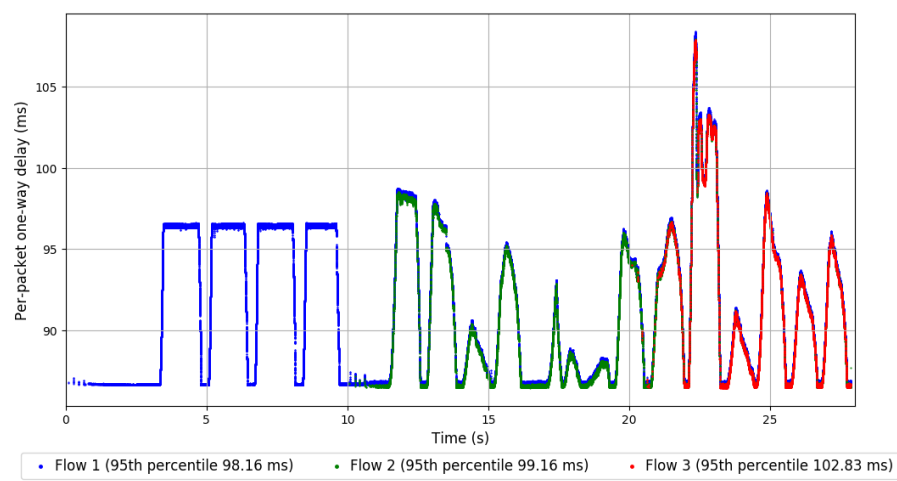
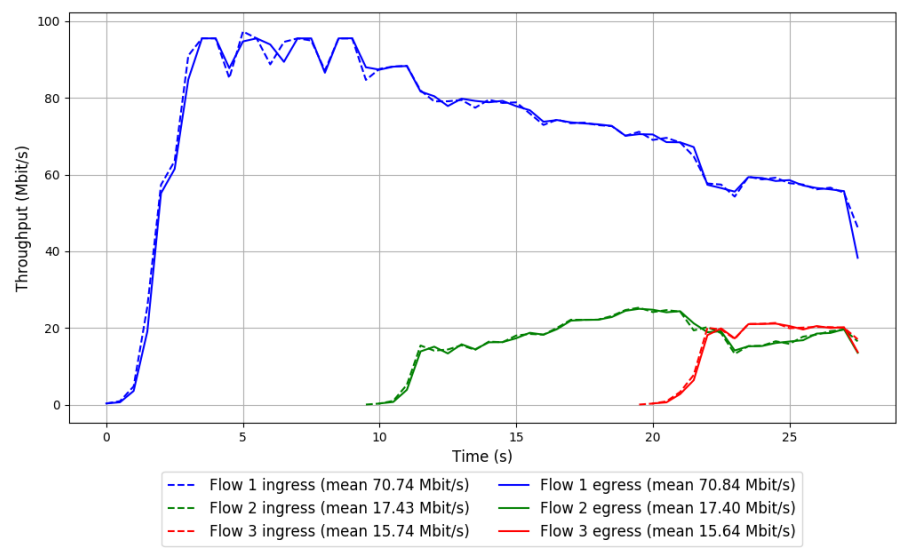


Run 2: Statistics of Copa

Start at: 2018-01-02 07:52:37
End at: 2018-01-02 07:53:07
Local clock offset: 0.317 ms
Remote clock offset: -3.488 ms

Below is generated by plot.py at 2018-01-02 14:01:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.36 Mbit/s
95th percentile per-packet one-way delay: 98.297 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 70.84 Mbit/s
95th percentile per-packet one-way delay: 98.162 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 17.40 Mbit/s
95th percentile per-packet one-way delay: 99.155 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 102.830 ms
Loss rate: 2.81%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 08:12:09

End at: 2018-01-02 08:12:39

Local clock offset: 0.226 ms

Remote clock offset: 1.411 ms

Below is generated by plot.py at 2018-01-02 14:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.77 Mbit/s

95th percentile per-packet one-way delay: 93.103 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 93.031 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 13.82 Mbit/s

95th percentile per-packet one-way delay: 95.448 ms

Loss rate: 1.68%

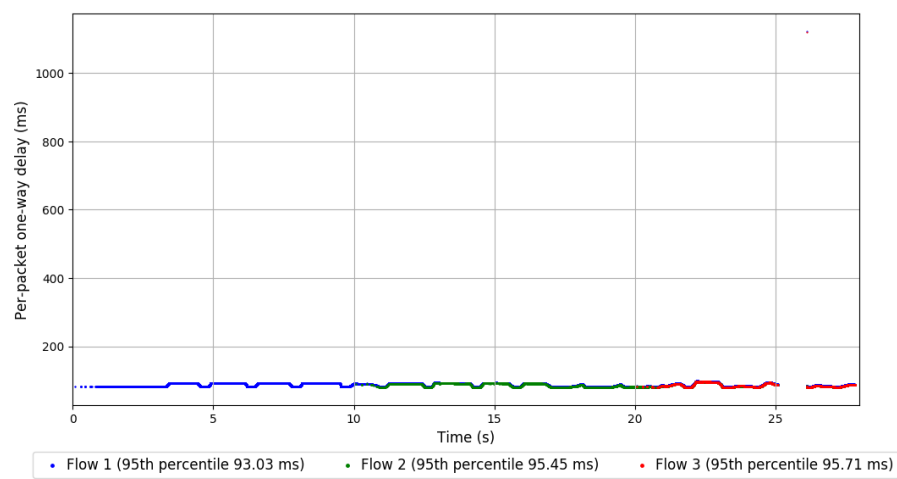
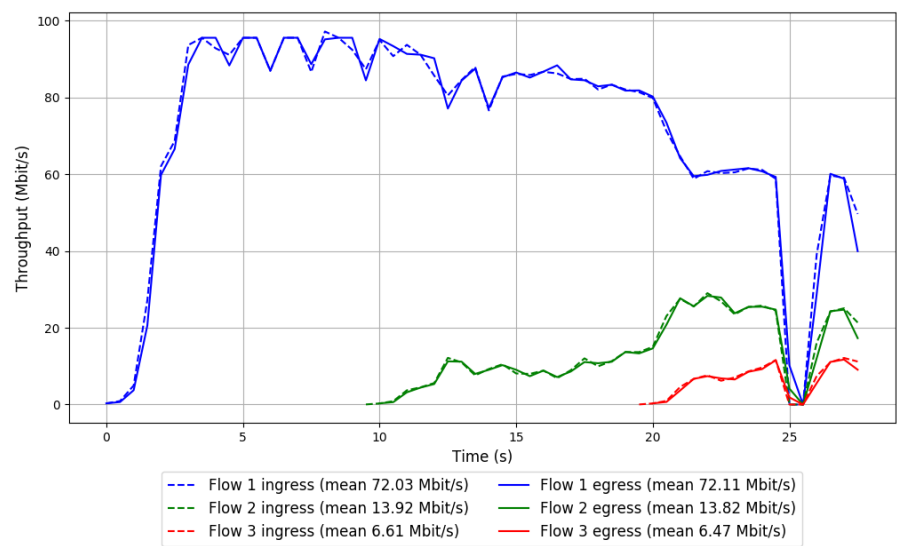
-- Flow 3:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 95.710 ms

Loss rate: 4.15%

Run 3: Report of Copa — Data Link

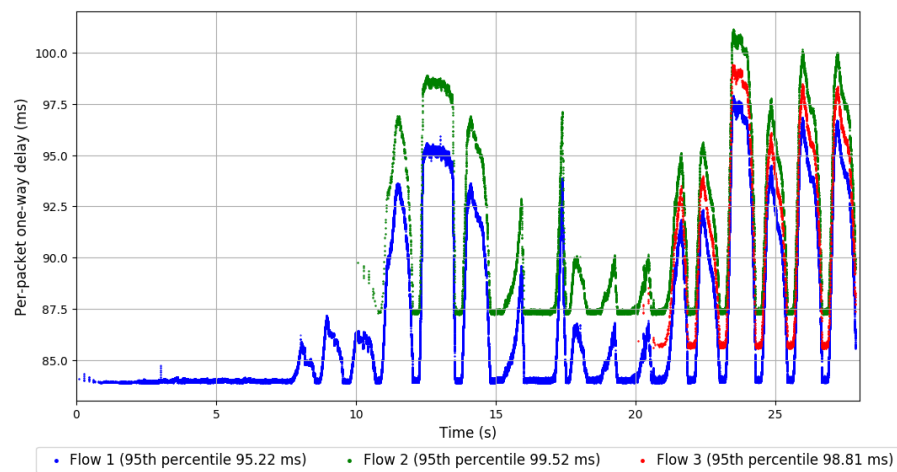
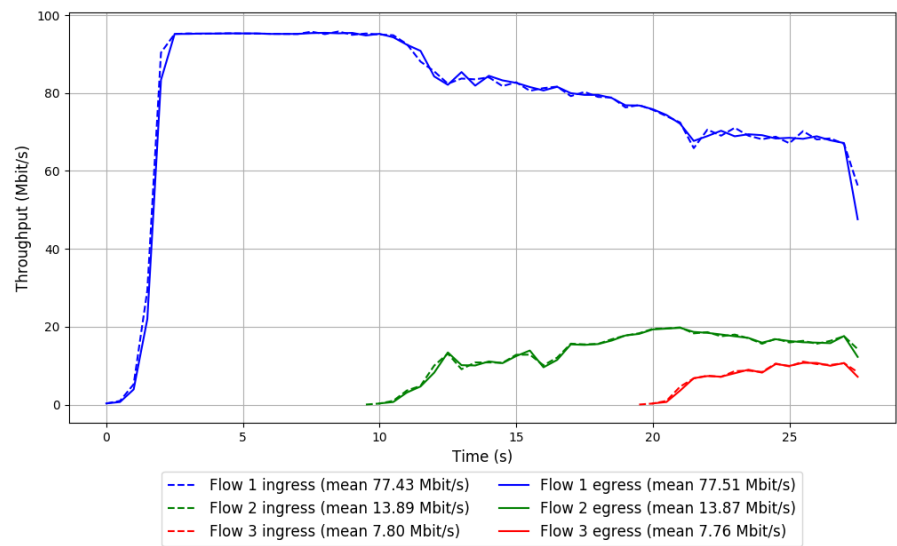


Run 4: Statistics of Copa

Start at: 2018-01-02 08:31:43
End at: 2018-01-02 08:32:13
Local clock offset: 0.137 ms
Remote clock offset: -1.814 ms

Below is generated by plot.py at 2018-01-02 14:01:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.57 Mbit/s
95th percentile per-packet one-way delay: 96.039 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 77.51 Mbit/s
95th percentile per-packet one-way delay: 95.223 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 13.87 Mbit/s
95th percentile per-packet one-way delay: 99.522 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 98.811 ms
Loss rate: 2.57%

Run 4: Report of Copa — Data Link

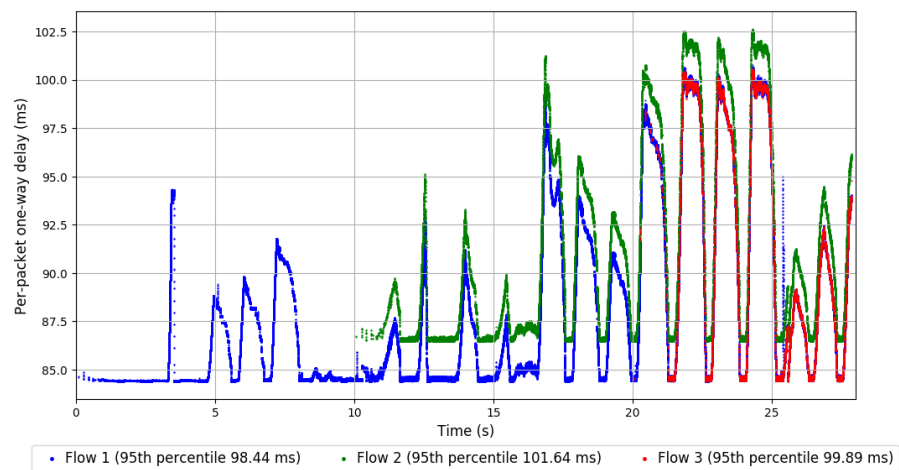
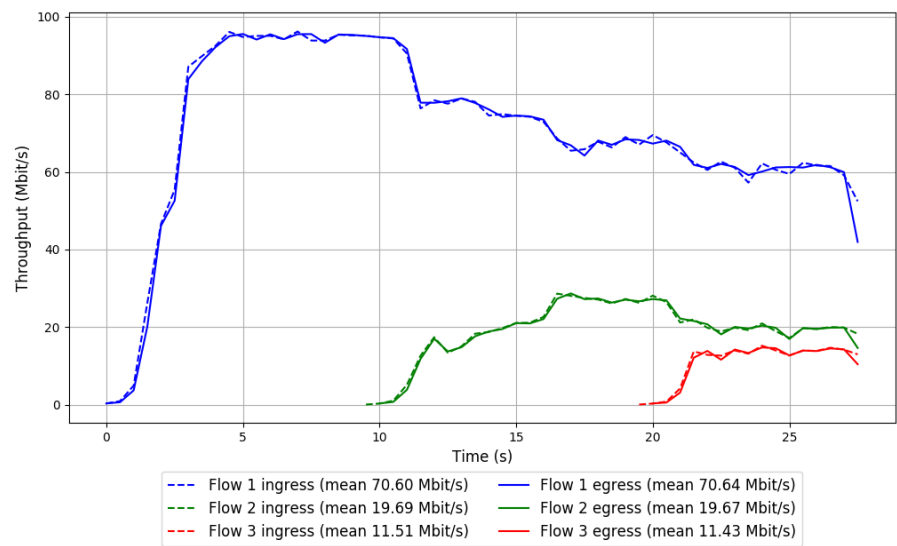


Run 5: Statistics of Copa

Start at: 2018-01-02 08:51:19
End at: 2018-01-02 08:51:49
Local clock offset: -0.06 ms
Remote clock offset: -2.555 ms

Below is generated by plot.py at 2018-01-02 14:01:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 99.529 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 70.64 Mbit/s
95th percentile per-packet one-way delay: 98.441 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 101.637 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 99.885 ms
Loss rate: 2.78%

Run 5: Report of Copa — Data Link

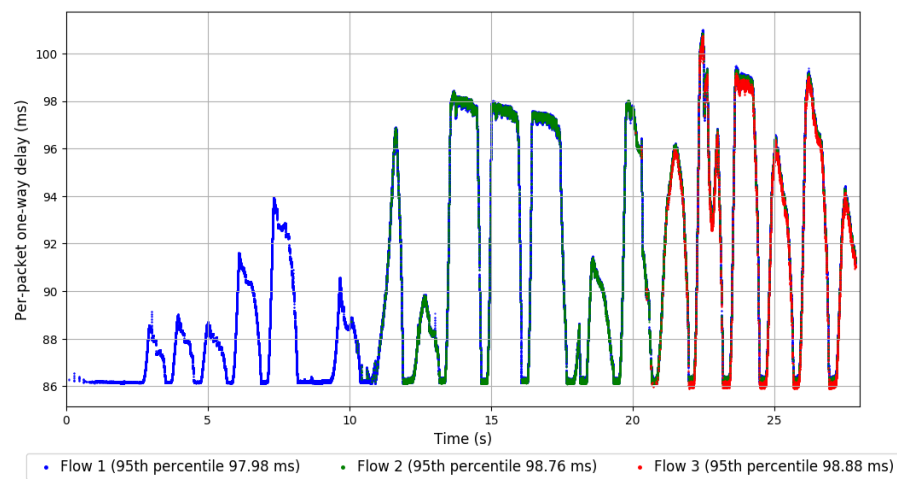
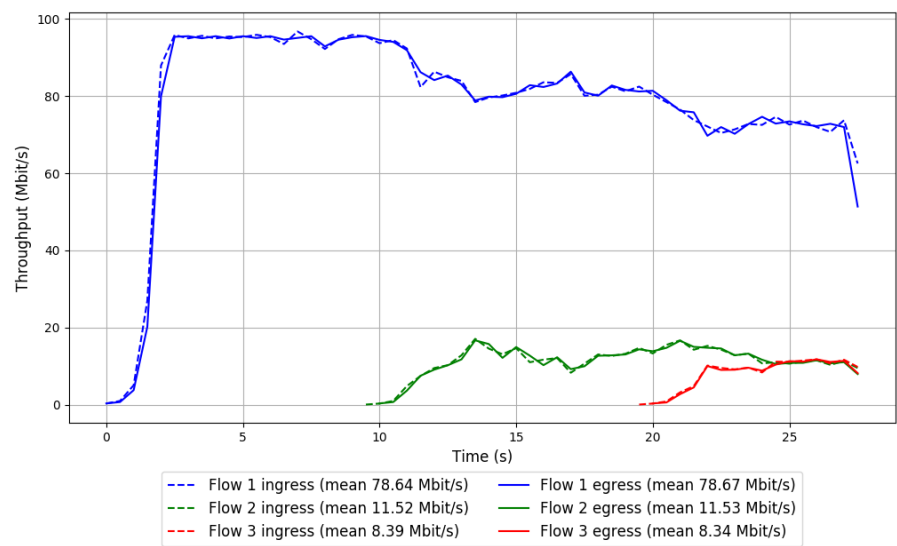


Run 6: Statistics of Copa

Start at: 2018-01-02 09:10:51
End at: 2018-01-02 09:11:21
Local clock offset: -0.148 ms
Remote clock offset: -2.424 ms

Below is generated by plot.py at 2018-01-02 14:01:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 98.076 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 78.67 Mbit/s
95th percentile per-packet one-way delay: 97.985 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 98.764 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 98.883 ms
Loss rate: 2.82%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 09:30:24

End at: 2018-01-02 09:30:54

Local clock offset: -0.2 ms

Remote clock offset: 3.97 ms

Below is generated by plot.py at 2018-01-02 14:01:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 91.996 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 73.53 Mbit/s

95th percentile per-packet one-way delay: 91.971 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 90.860 ms

Loss rate: 1.17%

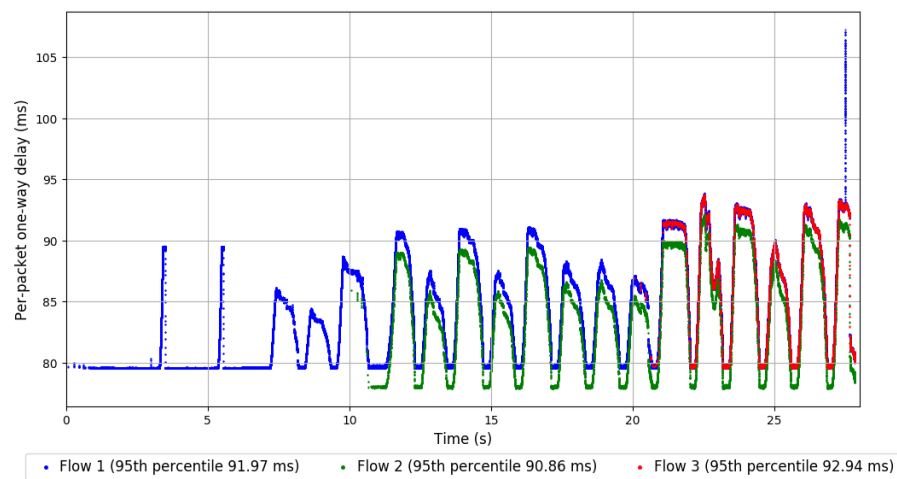
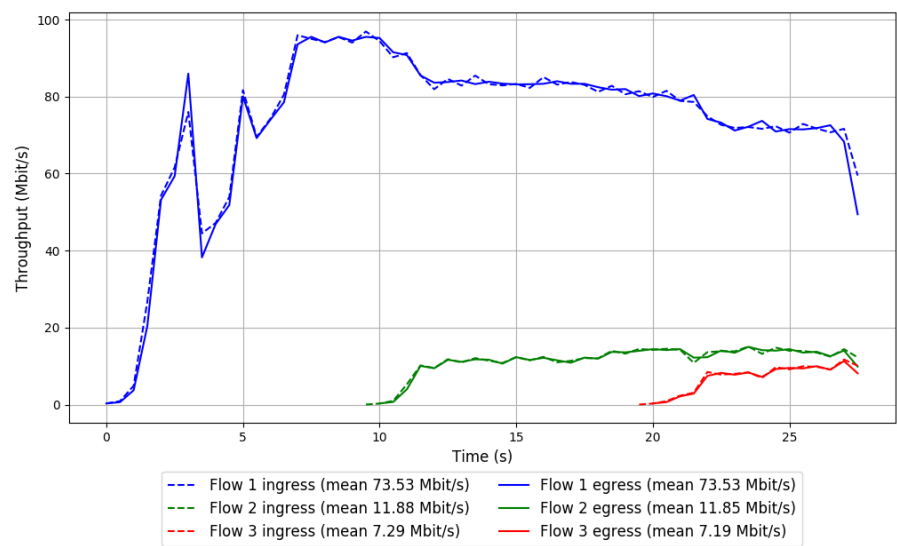
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 92.944 ms

Loss rate: 3.58%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 09:49:59

End at: 2018-01-02 09:50:29

Local clock offset: -0.265 ms

Remote clock offset: 3.3 ms

Below is generated by plot.py at 2018-01-02 14:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.87 Mbit/s

95th percentile per-packet one-way delay: 95.573 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 95.588 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 16.49 Mbit/s

95th percentile per-packet one-way delay: 93.208 ms

Loss rate: 0.95%

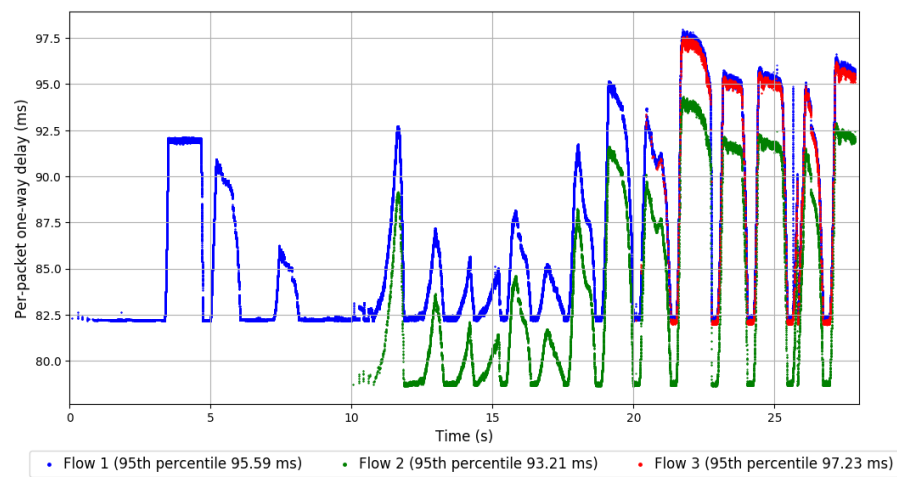
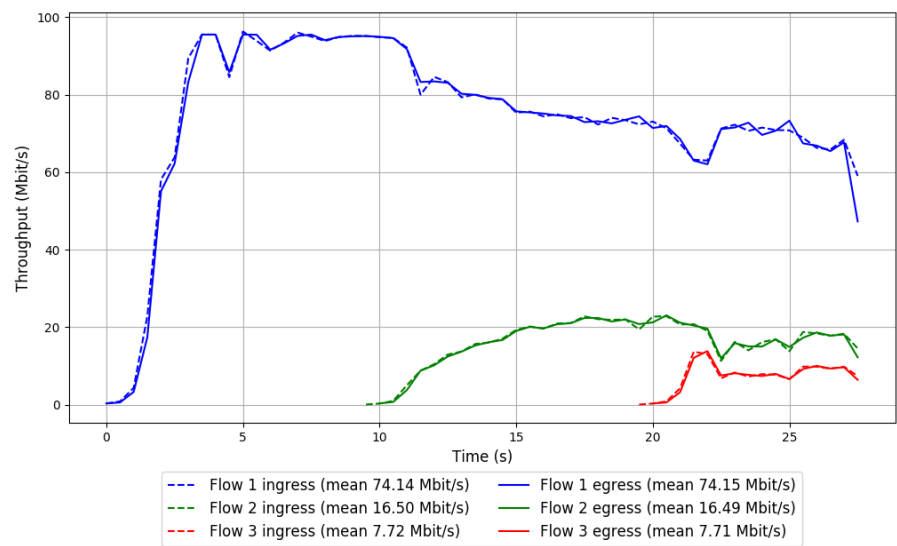
-- Flow 3:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 97.230 ms

Loss rate: 2.28%

Run 8: Report of Copa — Data Link

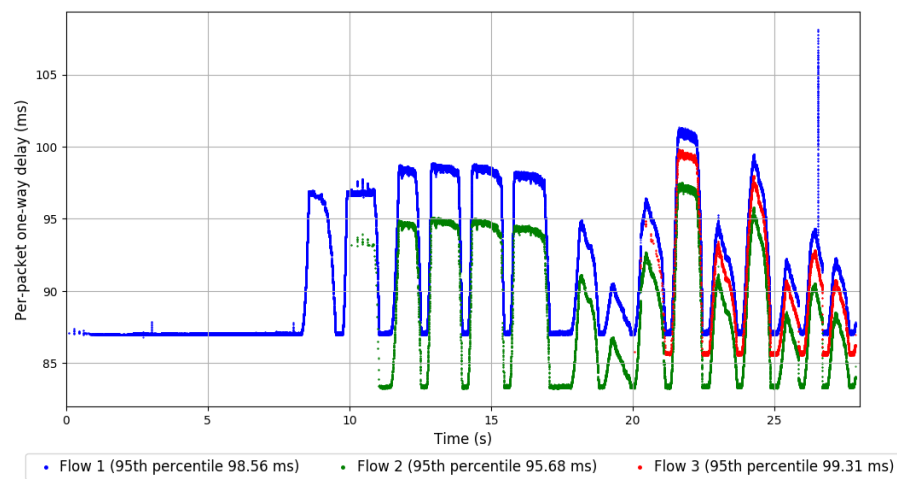
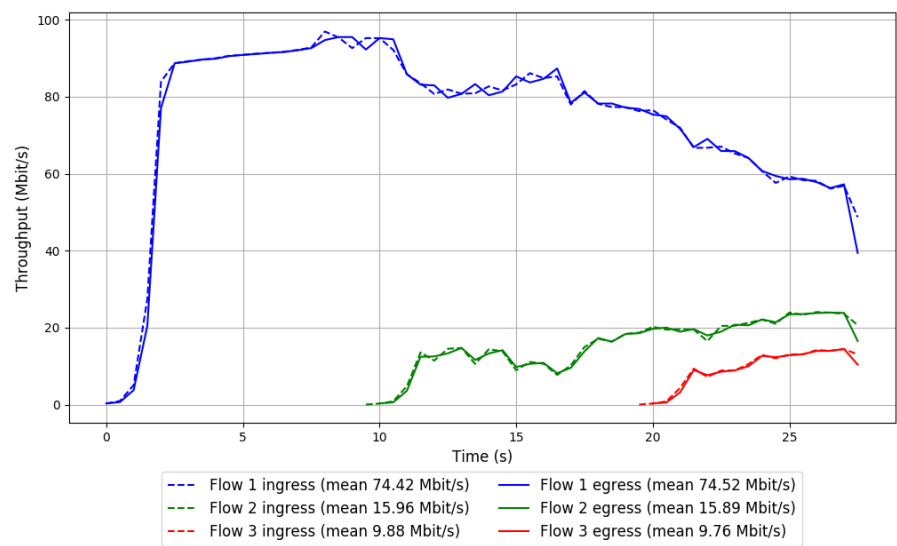


Run 9: Statistics of Copa

Start at: 2018-01-02 10:09:35
End at: 2018-01-02 10:10:05
Local clock offset: -0.288 ms
Remote clock offset: -1.436 ms

Below is generated by plot.py at 2018-01-02 14:03:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.43 Mbit/s
95th percentile per-packet one-way delay: 98.530 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 74.52 Mbit/s
95th percentile per-packet one-way delay: 98.556 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 15.89 Mbit/s
95th percentile per-packet one-way delay: 95.677 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 99.309 ms
Loss rate: 3.32%

Run 9: Report of Copa — Data Link

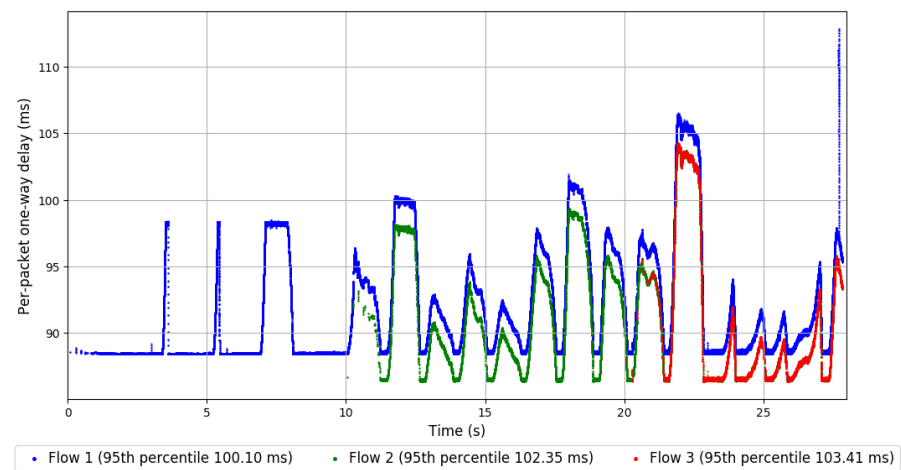
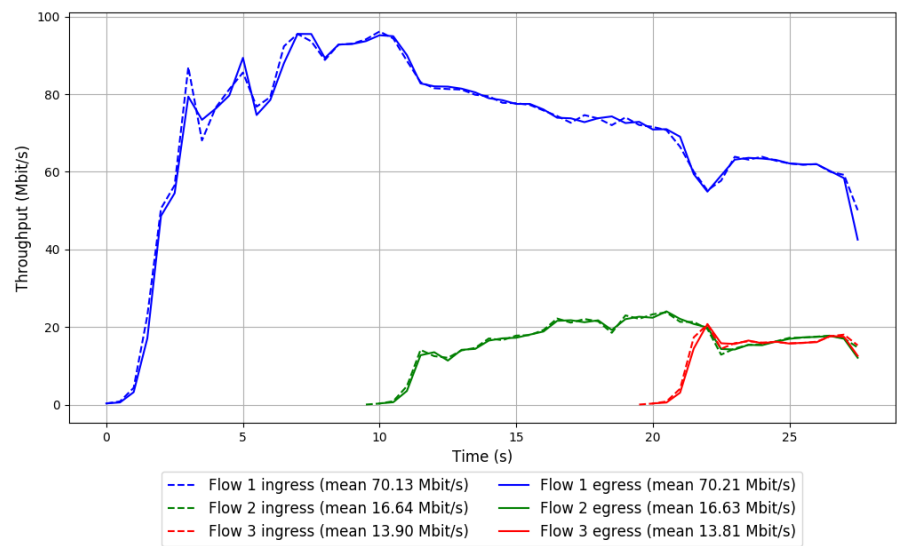


Run 10: Statistics of Copa

Start at: 2018-01-02 10:29:07
End at: 2018-01-02 10:29:37
Local clock offset: -0.348 ms
Remote clock offset: -2.987 ms

Below is generated by plot.py at 2018-01-02 14:03:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 100.683 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 70.21 Mbit/s
95th percentile per-packet one-way delay: 100.102 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 16.63 Mbit/s
95th percentile per-packet one-way delay: 102.353 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 13.81 Mbit/s
95th percentile per-packet one-way delay: 103.405 ms
Loss rate: 2.77%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-02 07:29:05

End at: 2018-01-02 07:29:35

Local clock offset: 0.52 ms

Remote clock offset: 0.831 ms

Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of FillP

Start at: 2018-01-02 07:48:40

End at: 2018-01-02 07:49:10

Local clock offset: 0.429 ms

Remote clock offset: 1.596 ms

Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP

Start at: 2018-01-02 08:08:11

End at: 2018-01-02 08:08:41

Local clock offset: 0.217 ms

Remote clock offset: 1.769 ms

Run 3: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of FillP

Start at: 2018-01-02 08:27:45

End at: 2018-01-02 08:28:15

Local clock offset: 0.144 ms

Remote clock offset: 2.246 ms

Run 4: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of FillP

Start at: 2018-01-02 08:47:20

End at: 2018-01-02 08:47:50

Local clock offset: 0.035 ms

Remote clock offset: -2.603 ms

Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP

Start at: 2018-01-02 09:06:54

End at: 2018-01-02 09:07:24

Local clock offset: -0.079 ms

Remote clock offset: -3.171 ms

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

Start at: 2018-01-02 09:26:26

End at: 2018-01-02 09:26:57

Local clock offset: -0.189 ms

Remote clock offset: -2.941 ms

Run 7: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP

Start at: 2018-01-02 09:46:00

End at: 2018-01-02 09:46:30

Local clock offset: -0.177 ms

Remote clock offset: 3.16 ms

Run 8: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP

Start at: 2018-01-02 10:05:38

End at: 2018-01-02 10:06:08

Local clock offset: -0.258 ms

Remote clock offset: 2.055 ms

Run 9: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP

Start at: 2018-01-02 10:25:09

End at: 2018-01-02 10:25:39

Local clock offset: -0.359 ms

Remote clock offset: -2.95 ms

Run 10: Report of FillP — Data Link

Figure is missing

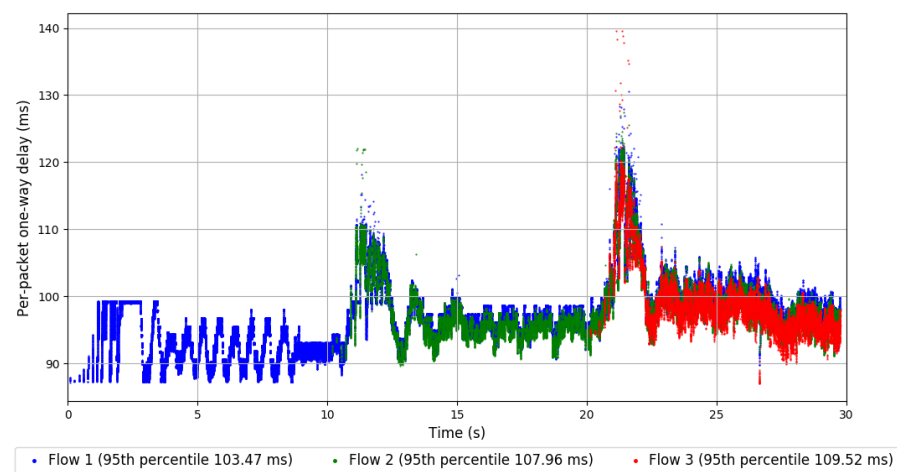
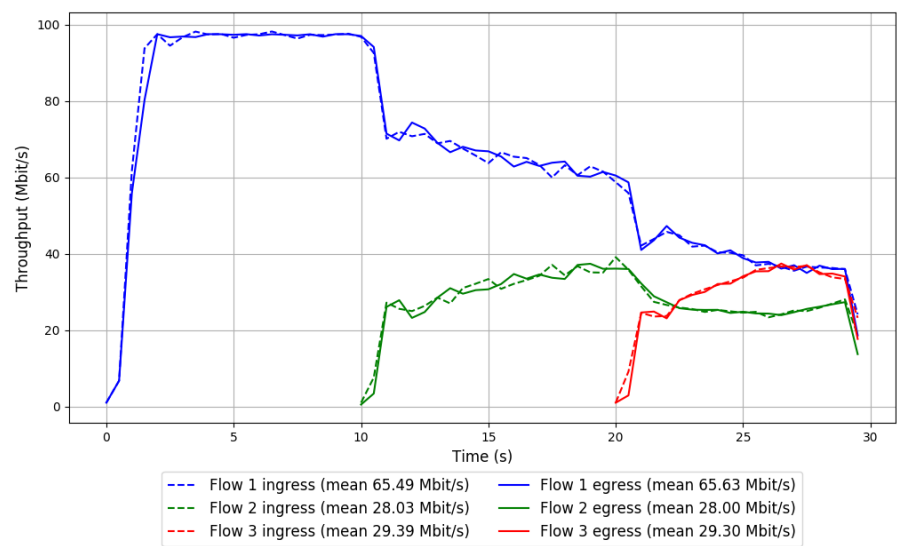
Figure is missing

Run 1: Statistics of Indigo

Start at: 2018-01-02 07:30:24
End at: 2018-01-02 07:30:54
Local clock offset: 0.513 ms
Remote clock offset: -4.816 ms

Below is generated by plot.py at 2018-01-02 14:03:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 105.366 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 65.63 Mbit/s
95th percentile per-packet one-way delay: 103.475 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 28.00 Mbit/s
95th percentile per-packet one-way delay: 107.963 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 29.30 Mbit/s
95th percentile per-packet one-way delay: 109.515 ms
Loss rate: 2.04%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-02 07:49:57

End at: 2018-01-02 07:50:27

Local clock offset: 0.408 ms

Remote clock offset: -3.15 ms

Below is generated by plot.py at 2018-01-02 14:03:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.64 Mbit/s

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

Loss rate: 0.62%

-- Flow 1:

Average throughput: 65.46 Mbit/s

95th percentile per-packet one-way delay: 102.225 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 26.61 Mbit/s

95th percentile per-packet one-way delay: 107.583 ms

Loss rate: 0.66%

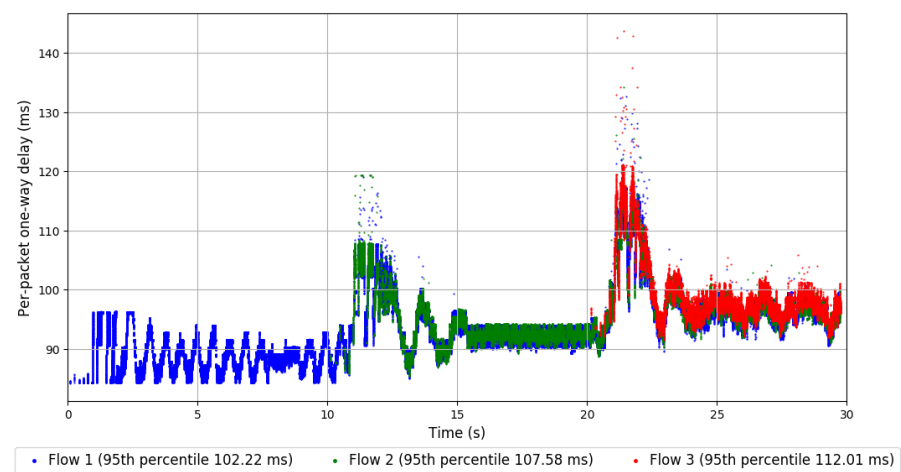
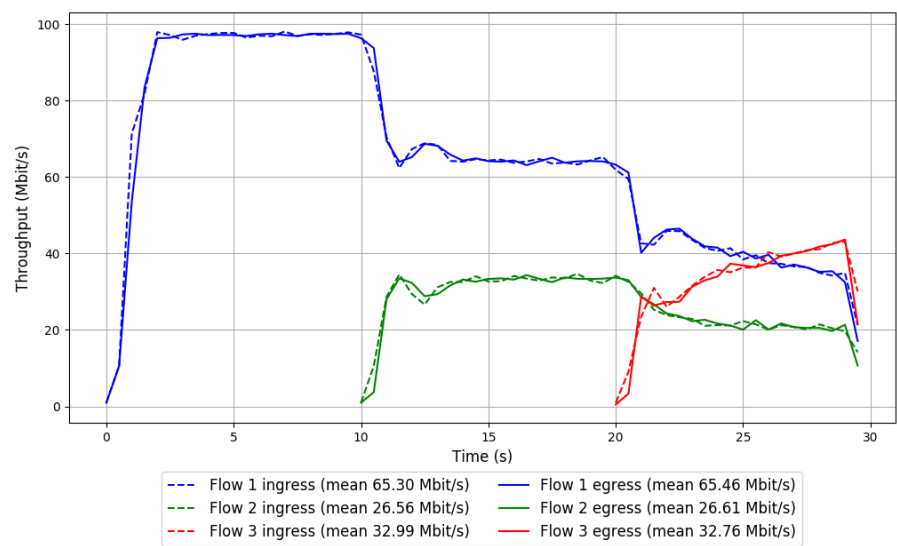
-- Flow 3:

Average throughput: 32.76 Mbit/s

95th percentile per-packet one-way delay: 112.007 ms

Loss rate: 2.46%

Run 2: Report of Indigo — Data Link

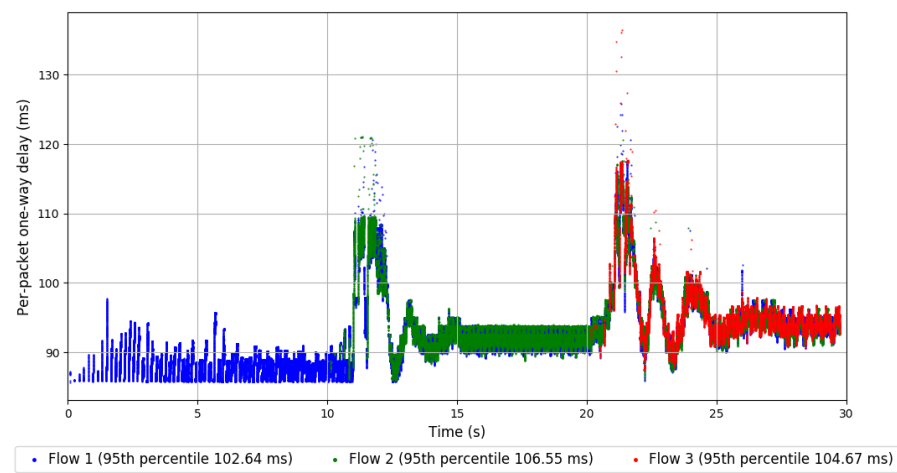
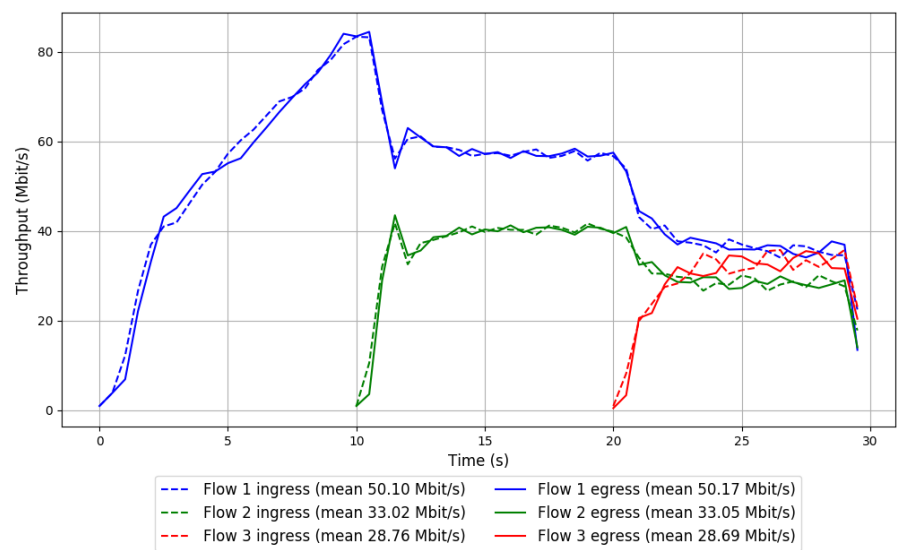


Run 3: Statistics of Indigo

Start at: 2018-01-02 08:09:30
End at: 2018-01-02 08:10:00
Local clock offset: 0.261 ms
Remote clock offset: -2.716 ms

Below is generated by plot.py at 2018-01-02 14:03:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.25 Mbit/s
95th percentile per-packet one-way delay: 103.870 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 102.639 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 33.05 Mbit/s
95th percentile per-packet one-way delay: 106.550 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 28.69 Mbit/s
95th percentile per-packet one-way delay: 104.670 ms
Loss rate: 2.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 08:29:03

End at: 2018-01-02 08:29:33

Local clock offset: 0.144 ms

Remote clock offset: 1.796 ms

Below is generated by plot.py at 2018-01-02 14:03:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 99.493 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 66.86 Mbit/s

95th percentile per-packet one-way delay: 96.080 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 105.118 ms

Loss rate: 0.79%

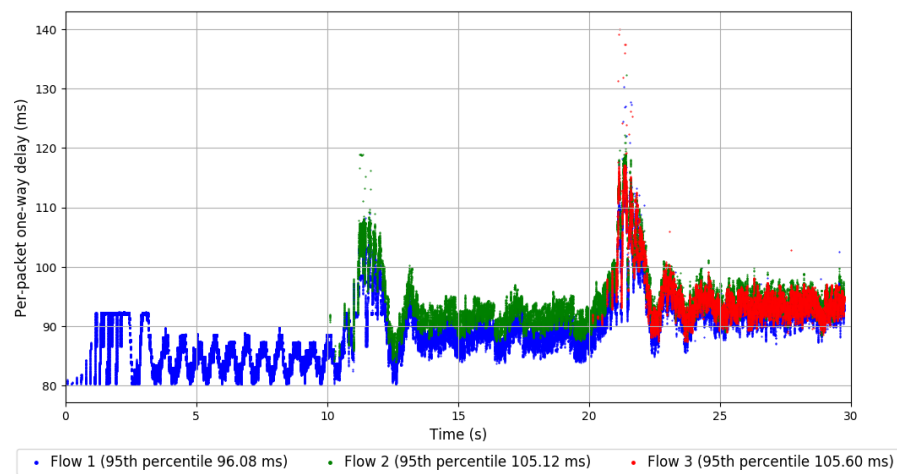
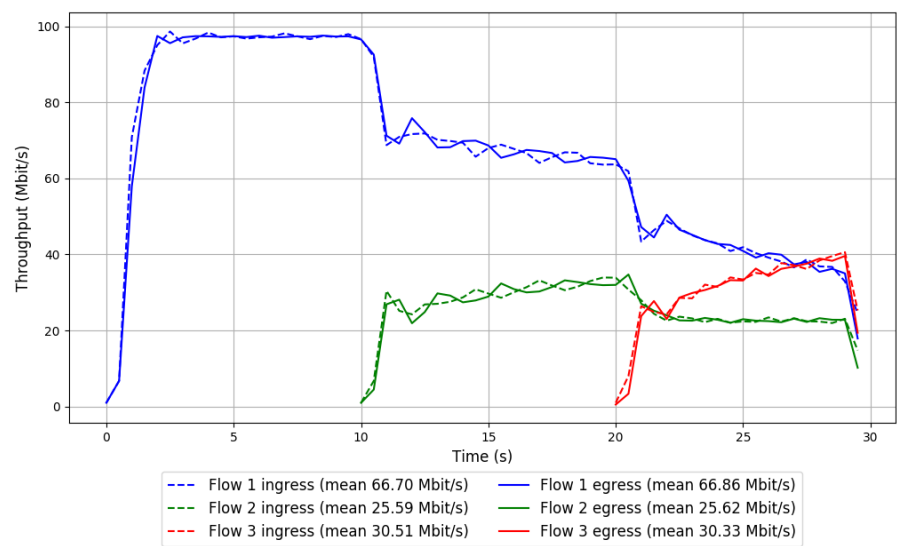
-- Flow 3:

Average throughput: 30.33 Mbit/s

95th percentile per-packet one-way delay: 105.601 ms

Loss rate: 2.37%

Run 4: Report of Indigo — Data Link

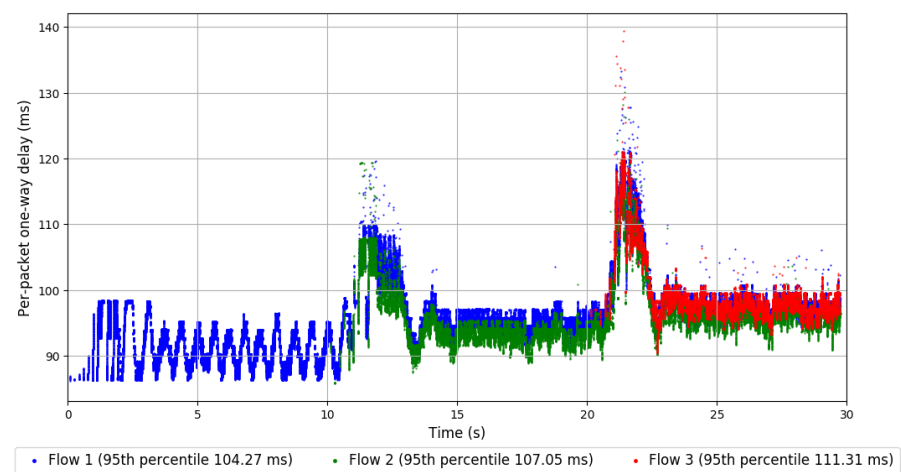
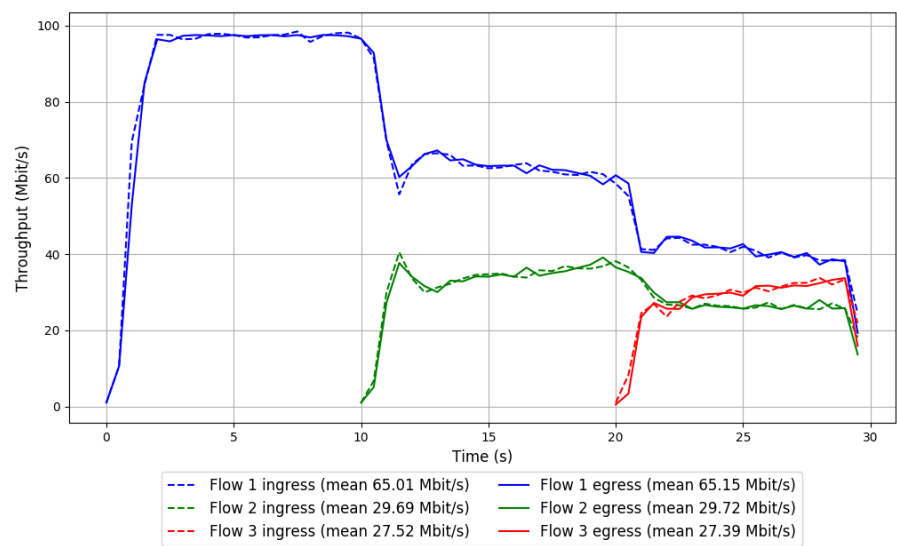


Run 5: Statistics of Indigo

Start at: 2018-01-02 08:48:38
End at: 2018-01-02 08:49:08
Local clock offset: 0.032 ms
Remote clock offset: -2.122 ms

Below is generated by plot.py at 2018-01-02 14:03:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 105.659 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 65.15 Mbit/s
95th percentile per-packet one-way delay: 104.270 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 29.72 Mbit/s
95th percentile per-packet one-way delay: 107.047 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 27.39 Mbit/s
95th percentile per-packet one-way delay: 111.312 ms
Loss rate: 2.28%

Run 5: Report of Indigo — Data Link

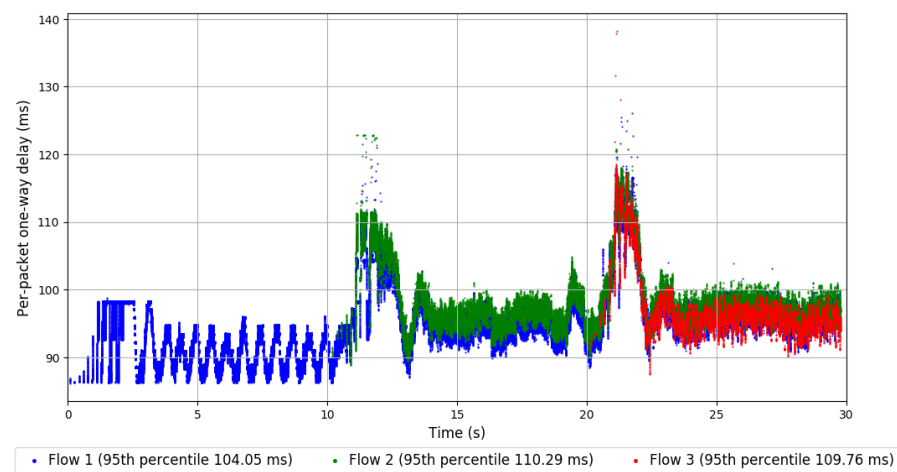
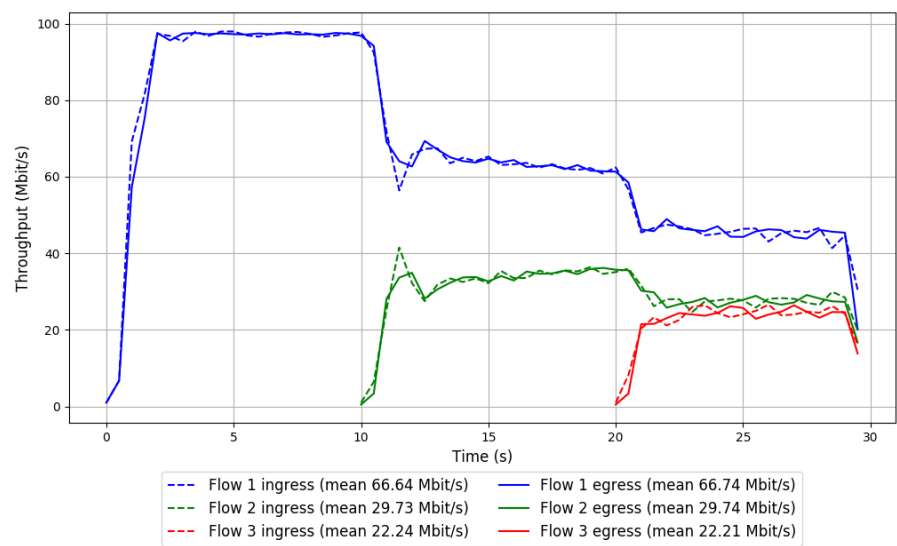


Run 6: Statistics of Indigo

Start at: 2018-01-02 09:08:12
End at: 2018-01-02 09:08:42
Local clock offset: -0.055 ms
Remote clock offset: -2.254 ms

Below is generated by plot.py at 2018-01-02 14:03:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 106.198 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 104.053 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 29.74 Mbit/s
95th percentile per-packet one-way delay: 110.290 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 22.21 Mbit/s
95th percentile per-packet one-way delay: 109.764 ms
Loss rate: 1.94%

Run 6: Report of Indigo — Data Link

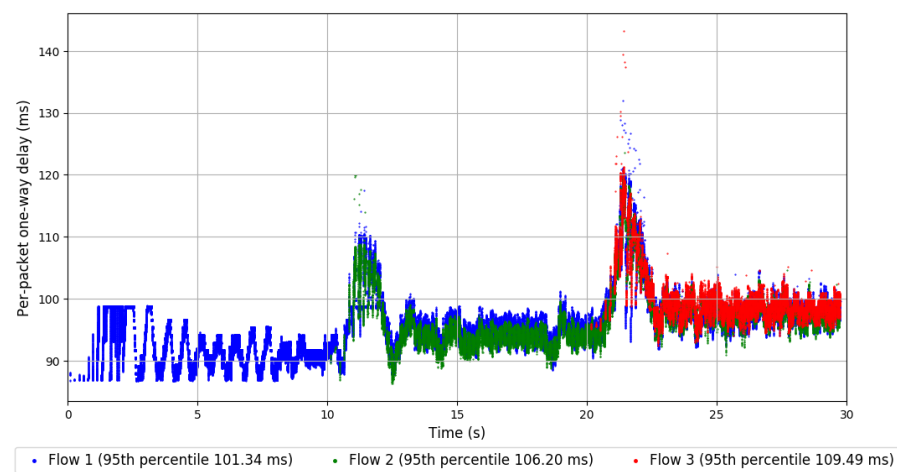
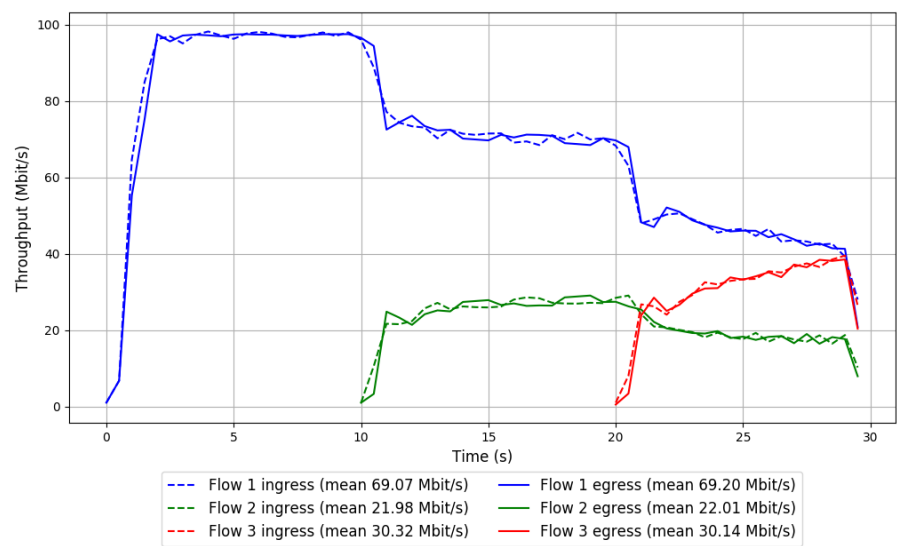


Run 7: Statistics of Indigo

Start at: 2018-01-02 09:27:44
End at: 2018-01-02 09:28:14
Local clock offset: -0.127 ms
Remote clock offset: -3.378 ms

Below is generated by plot.py at 2018-01-02 14:03:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.48 Mbit/s
95th percentile per-packet one-way delay: 104.418 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 69.20 Mbit/s
95th percentile per-packet one-way delay: 101.341 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 22.01 Mbit/s
95th percentile per-packet one-way delay: 106.204 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 30.14 Mbit/s
95th percentile per-packet one-way delay: 109.490 ms
Loss rate: 2.35%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 09:47:19

End at: 2018-01-02 09:47:49

Local clock offset: -0.19 ms

Remote clock offset: -2.95 ms

Below is generated by plot.py at 2018-01-02 14:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 106.286 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 105.185 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 26.88 Mbit/s

95th percentile per-packet one-way delay: 107.611 ms

Loss rate: 0.74%

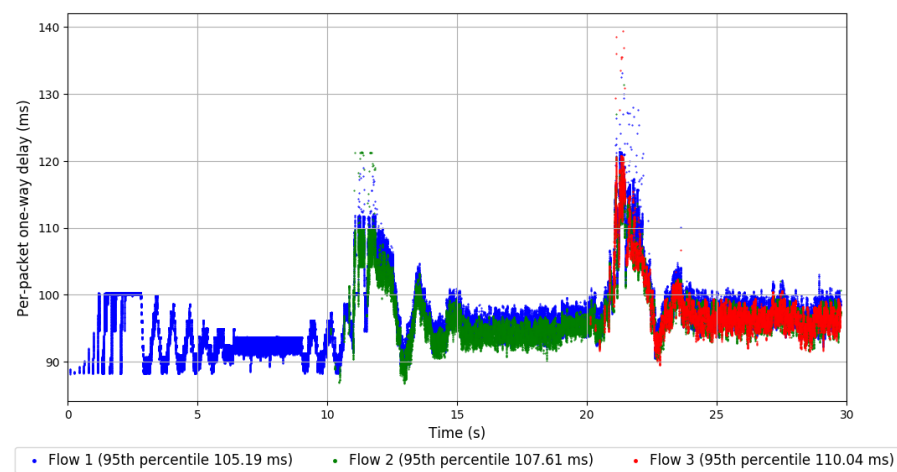
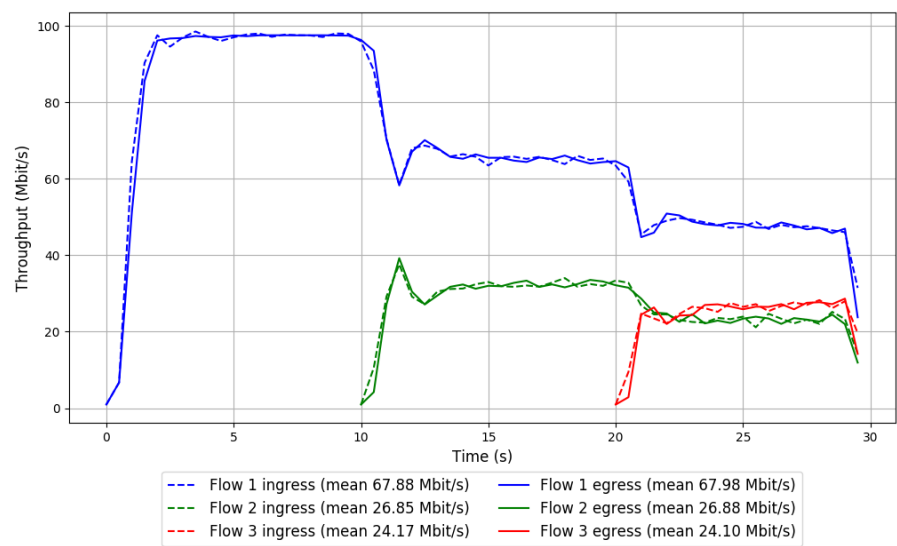
-- Flow 3:

Average throughput: 24.10 Mbit/s

95th percentile per-packet one-way delay: 110.039 ms

Loss rate: 2.13%

Run 8: Report of Indigo — Data Link

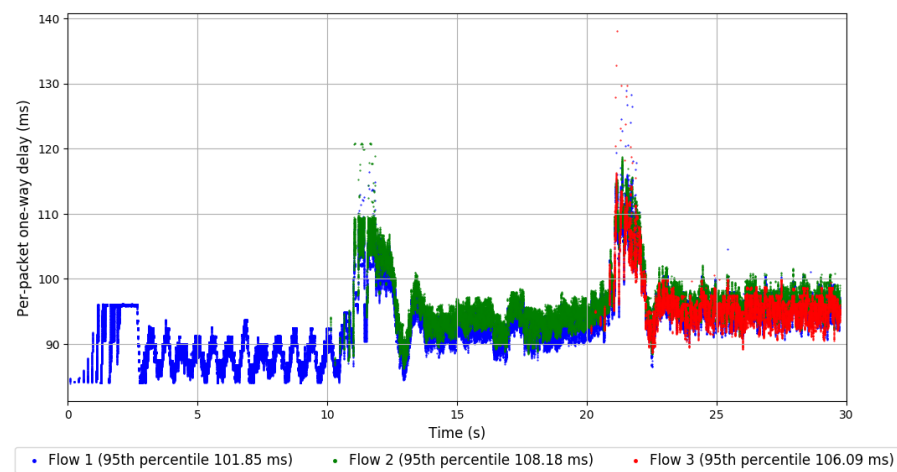
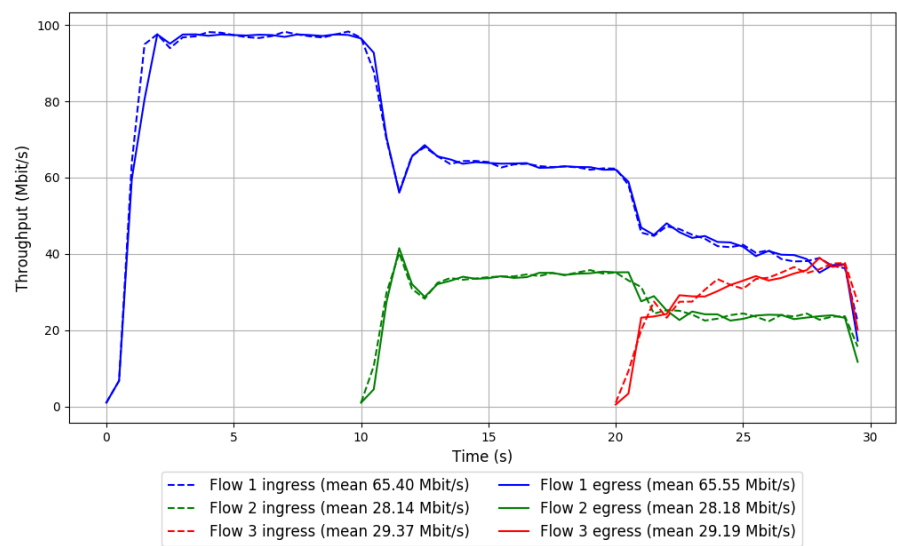


Run 9: Statistics of Indigo

Start at: 2018-01-02 10:06:56
End at: 2018-01-02 10:07:26
Local clock offset: -0.288 ms
Remote clock offset: -1.871 ms

Below is generated by plot.py at 2018-01-02 14:03:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 104.007 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 65.55 Mbit/s
95th percentile per-packet one-way delay: 101.847 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 28.18 Mbit/s
95th percentile per-packet one-way delay: 108.177 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 106.088 ms
Loss rate: 2.38%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 10:26:27
End at: 2018-01-02 10:26:57
Local clock offset: -0.37 ms
Remote clock offset: -3.351 ms

Below is generated by plot.py at 2018-01-02 14:03:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 104.568 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 68.65 Mbit/s
95th percentile per-packet one-way delay: 101.552 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 22.18 Mbit/s
95th percentile per-packet one-way delay: 108.472 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 110.147 ms
Loss rate: 2.44%

Run 10: Report of Indigo — Data Link

