

Pantheon Report

Generated at 2018-02-13 13:15:20 (UTC).

Data path: Colombia ppp0 (*remote*) → AWS Brazil 2 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 3 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).

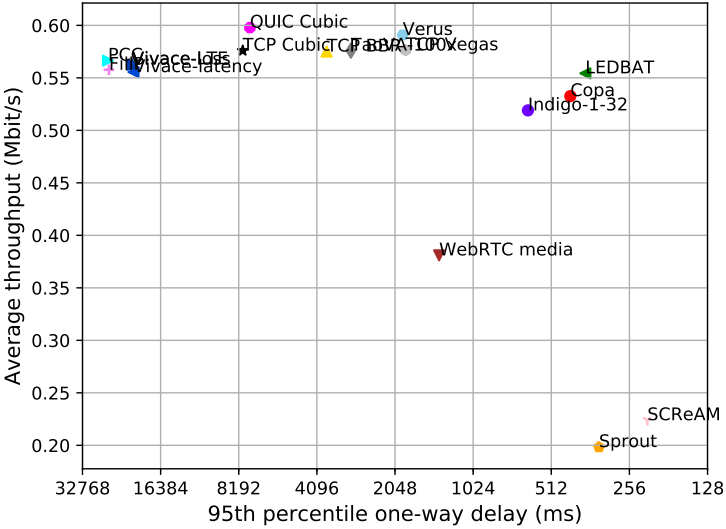
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

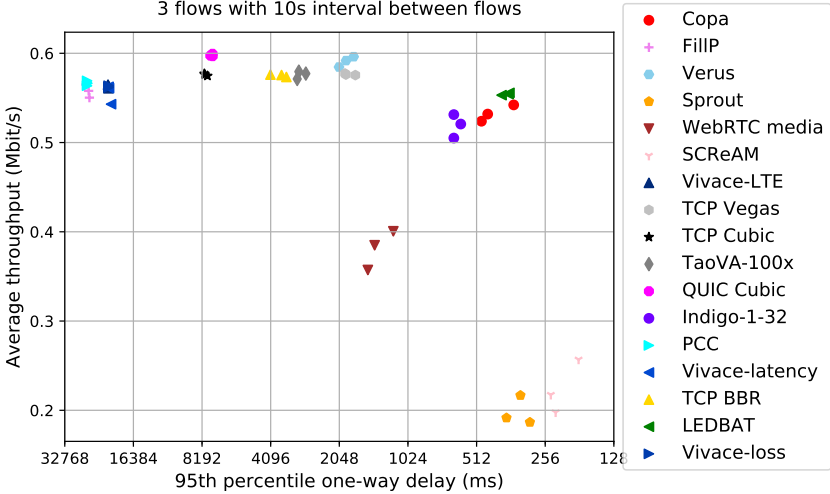
Git summary:

```
branch: master @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Colombia ppp0 to AWS Brazil 2 Ethernet, 3 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia ppp0 to AWS Brazil 2 Ethernet, 3 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	3	0.36	0.33	0.02	3734.56	3760.70	3777.16	3.54	7.59	58.33
TCP Cubic	3	0.56	0.04	0.00	7939.63	6745.55	8110.27	30.99	49.94	91.06
LEDBAT	3	0.25	0.35	0.22	331.62	388.82	405.32	0.05	1.27	6.36
PCC	3	0.57	0.00	N/A	26131.71	N/A	N/A	98.53	N/A	N/A
QUIC Cubic	3	0.56	0.06	0.00	7375.84	7668.61	7479.11	28.67	32.00	33.33
SCReAM	3	0.08	0.15	0.13	201.04	207.67	362.40	0.85	0.85	1.79
WebRTC media	3	0.19	0.13	0.06	1316.60	1482.76	1322.71	0.81	3.21	10.51
Sprout	3	0.09	0.10	0.10	685.98	222.15	268.07	1.27	3.16	2.56
TaoVA-100x	3	0.35	0.28	0.21	2574.33	3144.93	3031.93	4.31	12.54	23.02
TCP Vegas	3	0.39	0.22	0.17	1787.03	1937.68	1894.17	3.39	6.80	22.41
Verus	3	0.58	0.01	0.01	1912.97	1882.96	1811.94	5.93	6.23	12.73
Copa	3	0.30	0.24	0.23	386.87	464.95	458.96	4.75	6.26	12.80
FillP	3	0.56	0.00	N/A	25911.19	N/A	N/A	98.29	N/A	N/A
Indigo-1-32	3	0.30	0.21	0.24	544.91	659.66	697.03	0.94	1.91	5.90
Vivace-latency	3	0.55	0.00	N/A	20846.01	N/A	N/A	72.35	N/A	N/A
Vivace-loss	3	0.56	0.00	N/A	21073.12	N/A	N/A	89.10	N/A	N/A
Vivace-LTE	3	0.56	0.00	N/A	21107.40	N/A	N/A	71.62	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 11:11:04

End at: 2018-02-13 11:11:34

Local clock offset: -8.186 ms

Remote clock offset: 0.698 ms

Below is generated by plot.py at 2018-02-13 13:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 3495.176 ms

Loss rate: 4.72%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 3485.370 ms

Loss rate: 3.44%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 3495.176 ms

Loss rate: 5.13%

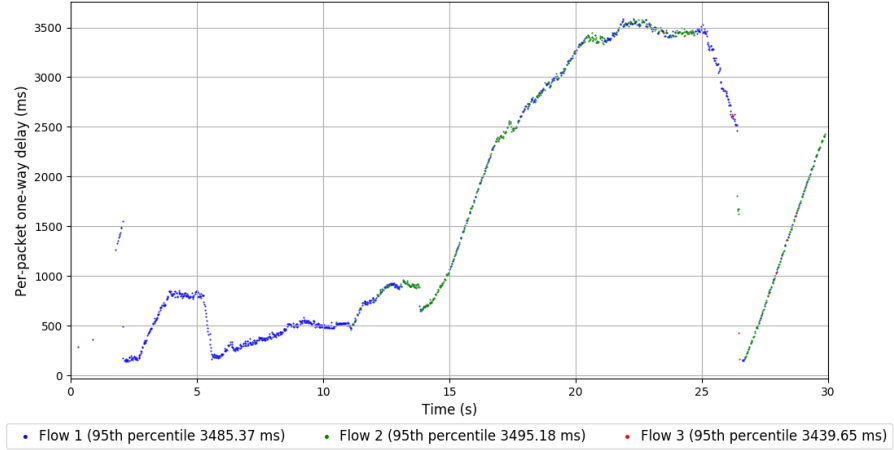
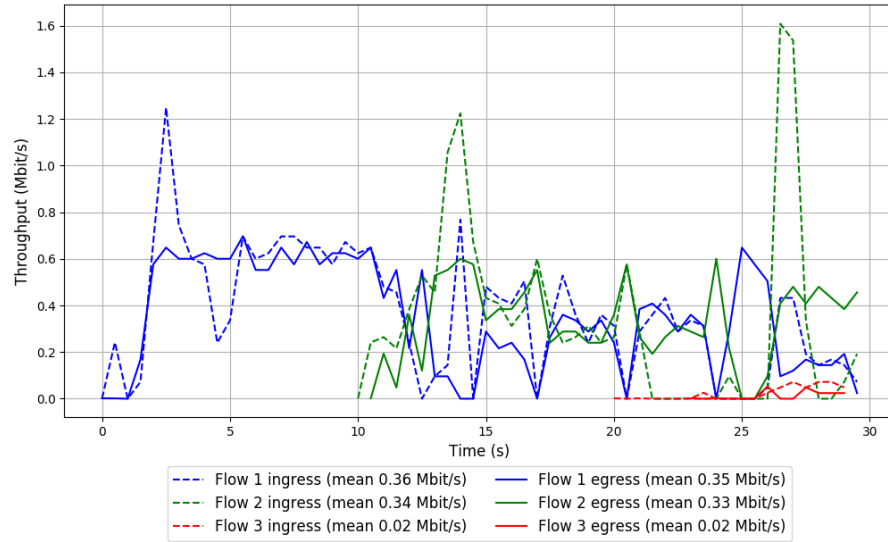
-- Flow 3:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 3439.652 ms

Loss rate: 57.58%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 11:33:35

End at: 2018-02-13 11:34:05

Local clock offset: -8.626 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-02-13 13:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 3670.154 ms

Loss rate: 5.28%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 3622.454 ms

Loss rate: 3.61%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 3729.538 ms

Loss rate: 6.35%

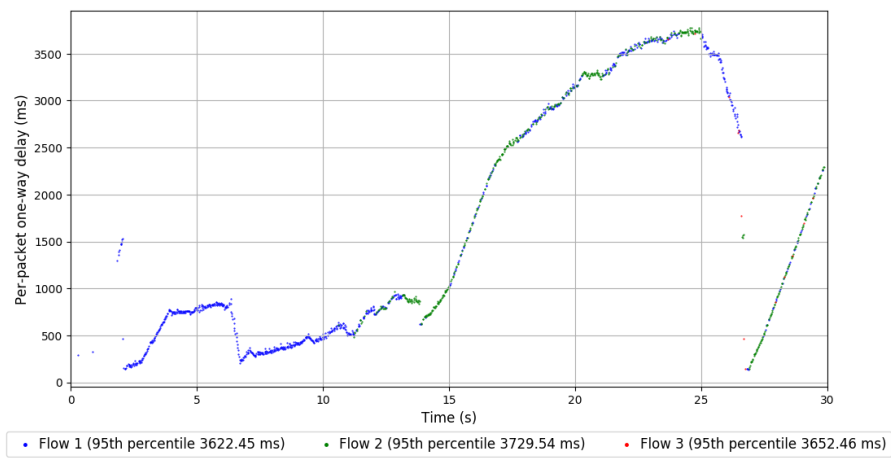
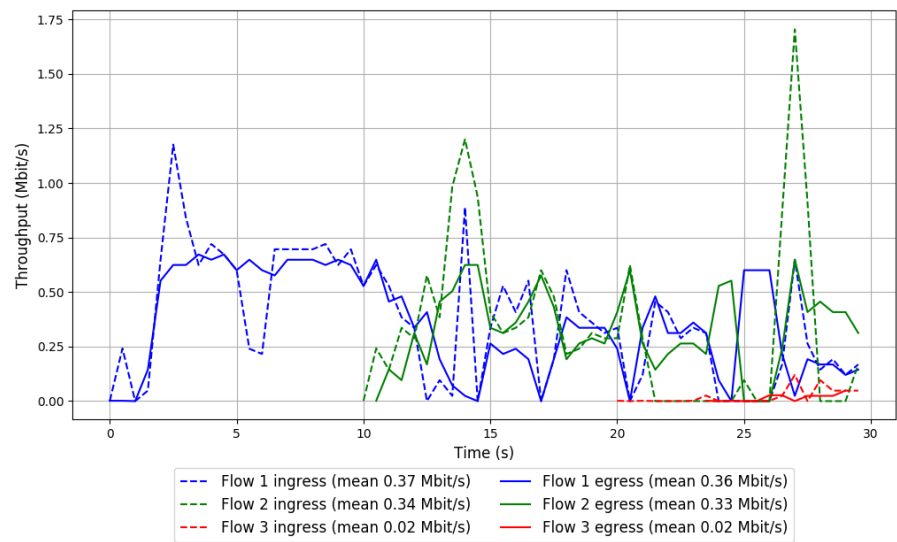
-- Flow 3:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 3652.460 ms

Loss rate: 57.58%

Run 2: Report of TCP BBR — Data Link

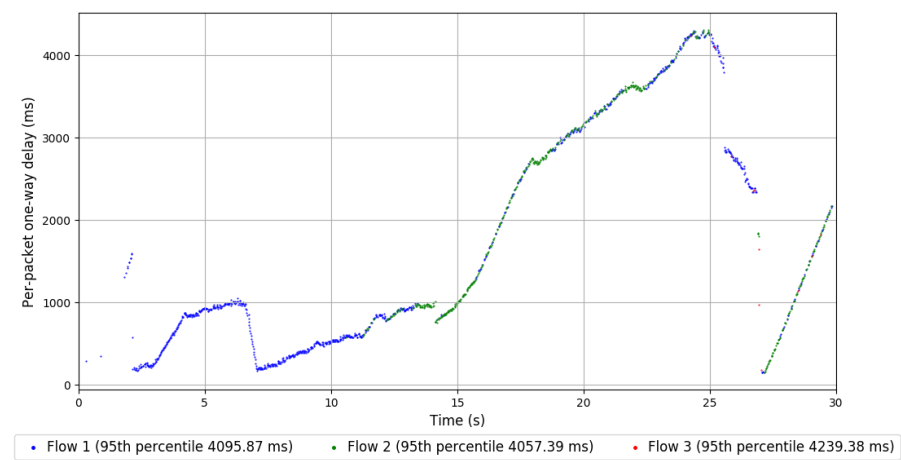
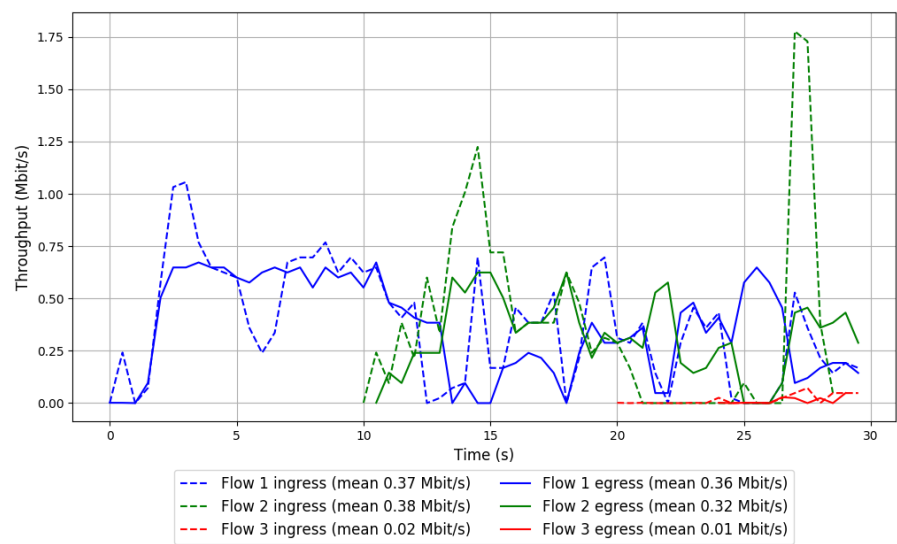


Run 3: Statistics of TCP BBR

Start at: 2018-02-13 11:56:07
End at: 2018-02-13 11:56:37
Local clock offset: -2.805 ms
Remote clock offset: -4.448 ms

Below is generated by plot.py at 2018-02-13 13:14:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 4106.066 ms
Loss rate: 7.01%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 4095.868 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 4057.389 ms
Loss rate: 11.30%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 4239.380 ms
Loss rate: 59.84%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 11:12:19

End at: 2018-02-13 11:12:49

Local clock offset: -8.152 ms

Remote clock offset: 1.49 ms

Below is generated by plot.py at 2018-02-13 13:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7757.525 ms

Loss rate: 31.68%

-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 7807.440 ms

Loss rate: 30.88%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 7726.113 ms

Loss rate: 44.15%

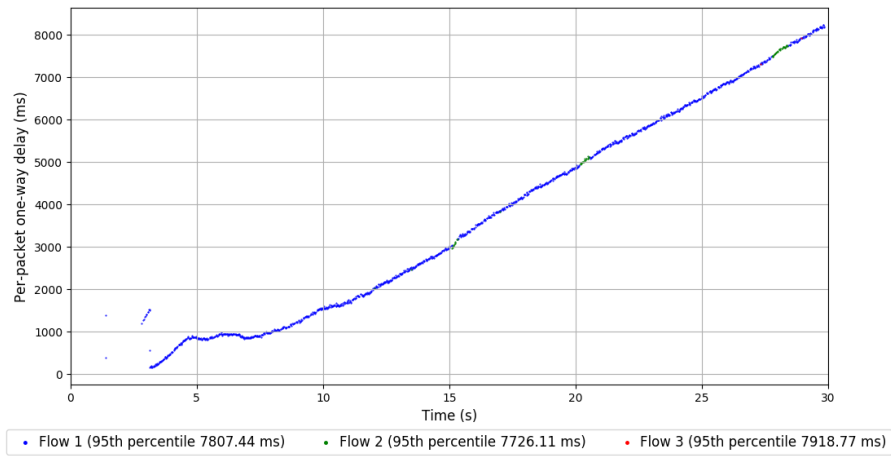
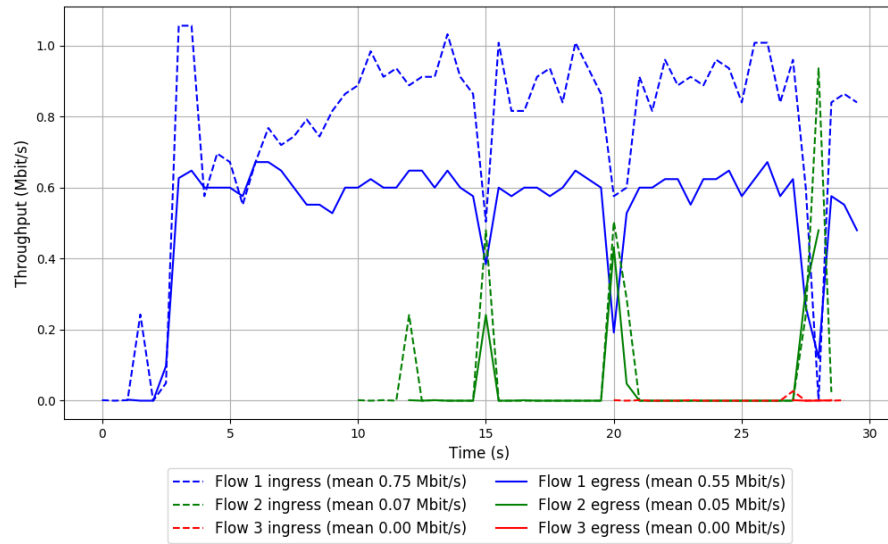
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 7918.771 ms

Loss rate: 91.06%

Run 1: Report of TCP Cubic — Data Link

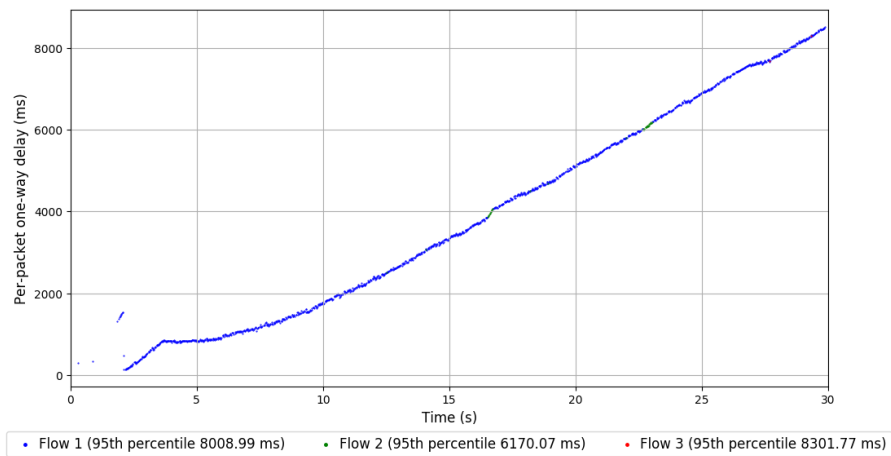
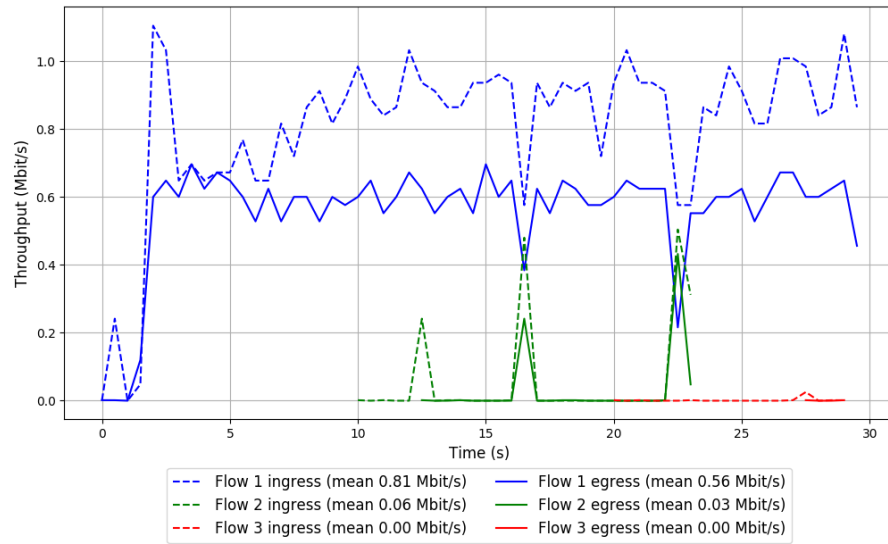


Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 11:34:50
End at: 2018-02-13 11:35:20
Local clock offset: -8.594 ms
Remote clock offset: -3.463 ms

Below is generated by plot.py at 2018-02-13 13:14:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 7999.437 ms
Loss rate: 31.77%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 8008.991 ms
Loss rate: 31.05%
-- Flow 2:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 6170.071 ms
Loss rate: 52.83%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8301.769 ms
Loss rate: 91.06%

Run 2: Report of TCP Cubic — Data Link

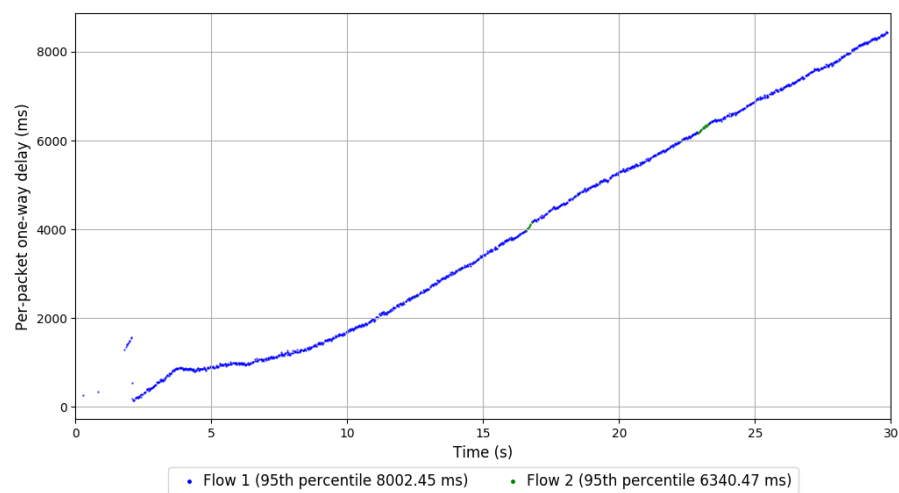
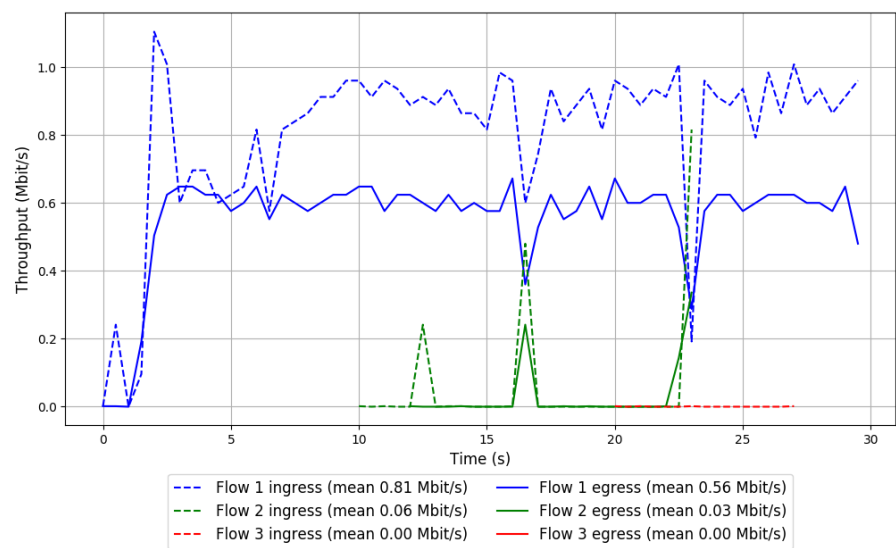


Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 11:57:21
End at: 2018-02-13 11:57:51
Local clock offset: -2.72 ms
Remote clock offset: -3.654 ms

Below is generated by plot.py at 2018-02-13 13:14:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 7972.344 ms
Loss rate: 31.73%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 8002.450 ms
Loss rate: 31.05%
-- Flow 2:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 6340.468 ms
Loss rate: 52.83%
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 3: Report of TCP Cubic — Data Link

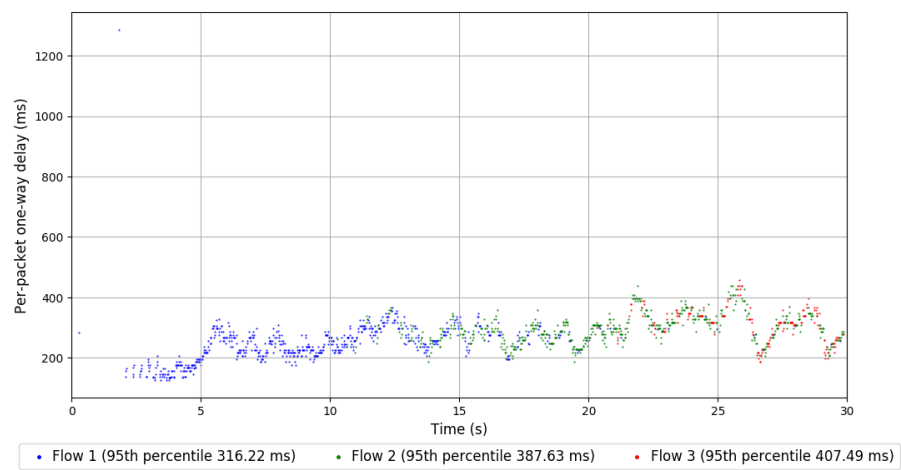
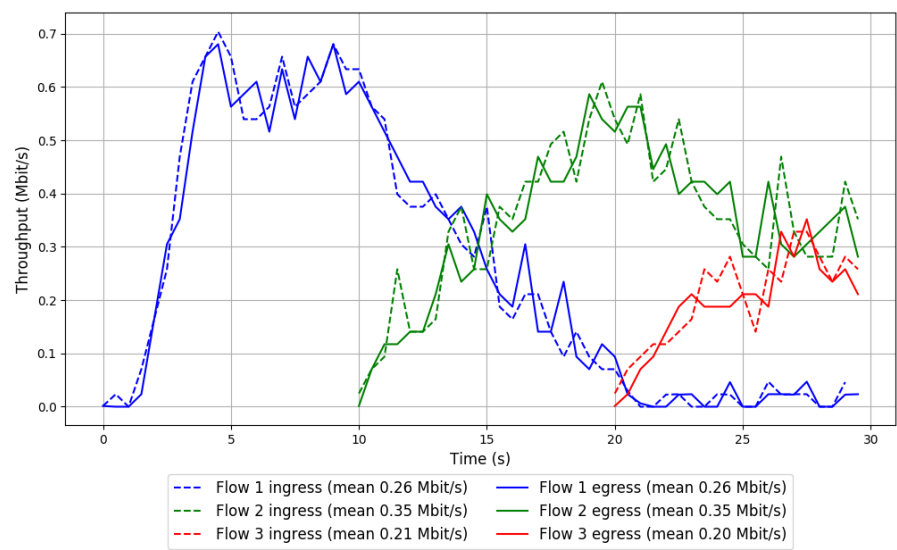


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-13 11:18:34
End at: 2018-02-13 11:19:04
Local clock offset: -8.18 ms
Remote clock offset: 1.506 ms

# Below is generated by plot.py at 2018-02-13 13:14:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 367.502 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 316.217 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 387.627 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 407.490 ms
Loss rate: 5.78%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-13 11:41:06

End at: 2018-02-13 11:41:36

Local clock offset: -5.609 ms

Remote clock offset: 1.343 ms

Below is generated by plot.py at 2018-02-13 13:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 370.566 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 340.570 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 380.708 ms

Loss rate: 1.77%

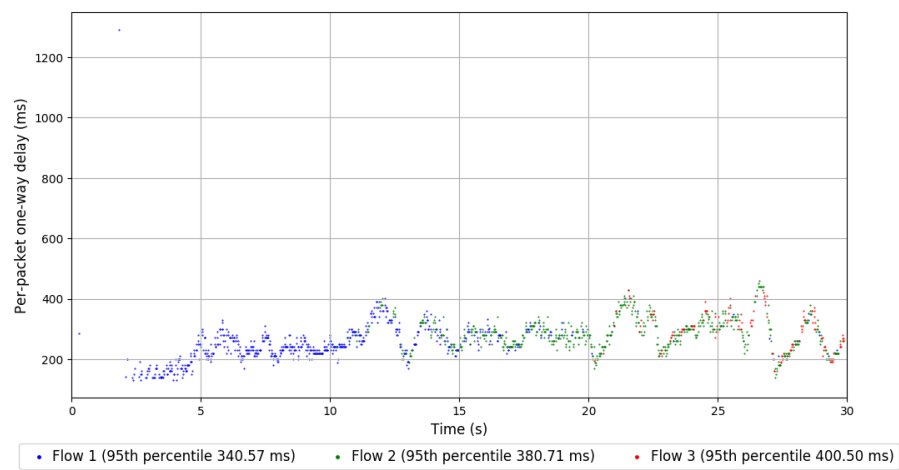
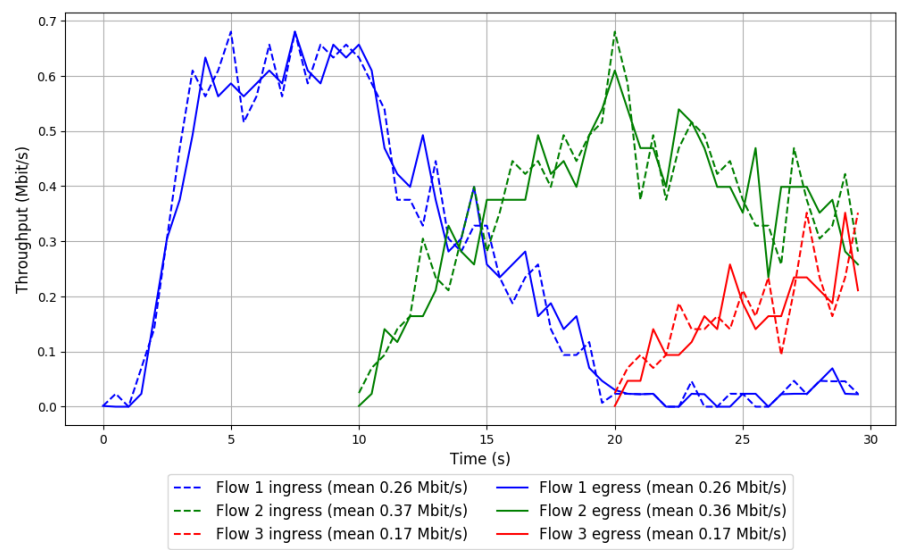
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 400.504 ms

Loss rate: 5.55%

Run 2: Report of LEDBAT — Data Link

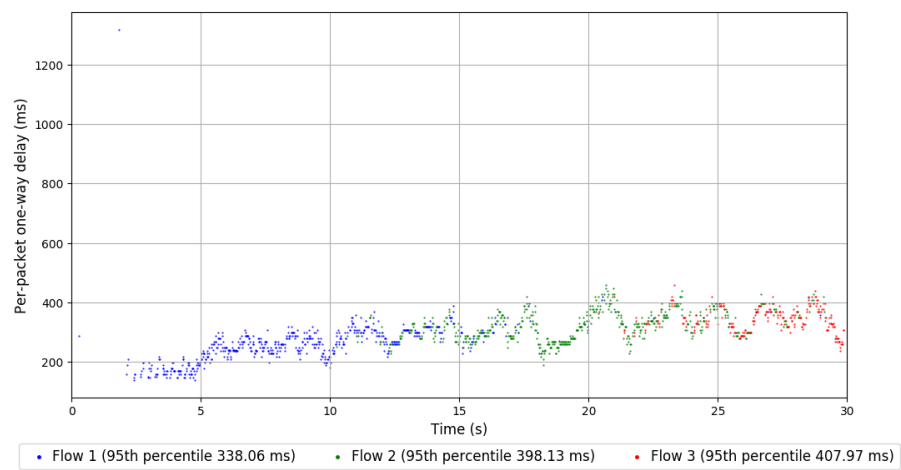
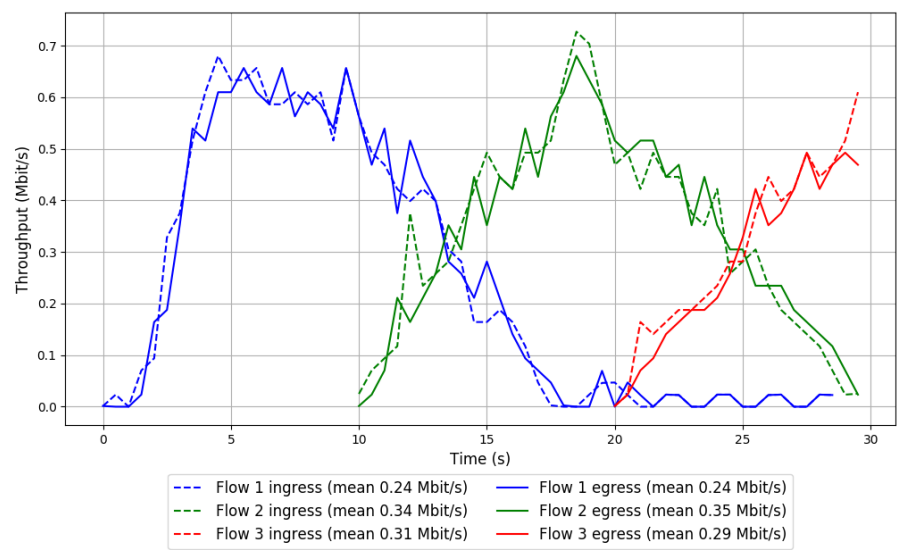


Run 3: Statistics of LEDBAT

Start at: 2018-02-13 12:03:36
End at: 2018-02-13 12:04:06
Local clock offset: -2.285 ms
Remote clock offset: -3.622 ms

Below is generated by plot.py at 2018-02-13 13:14:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 397.947 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 338.063 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 398.131 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 407.972 ms
Loss rate: 7.75%

Run 3: Report of LEDBAT — Data Link

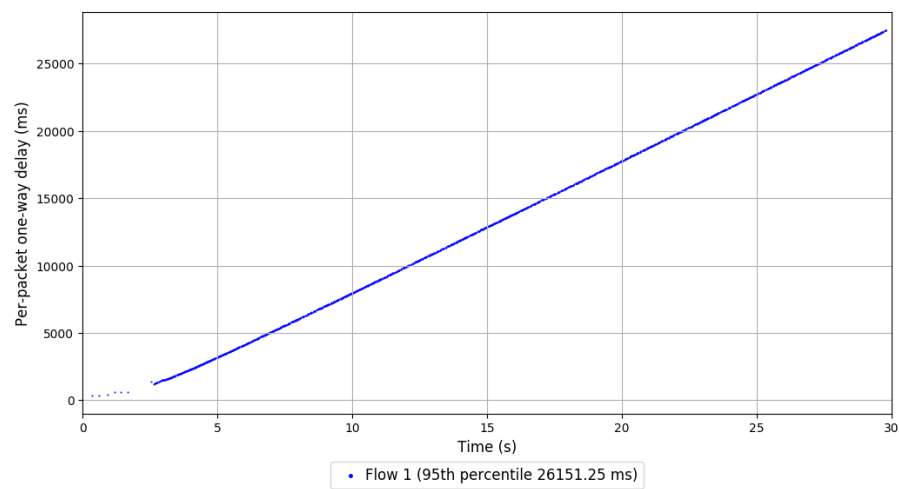
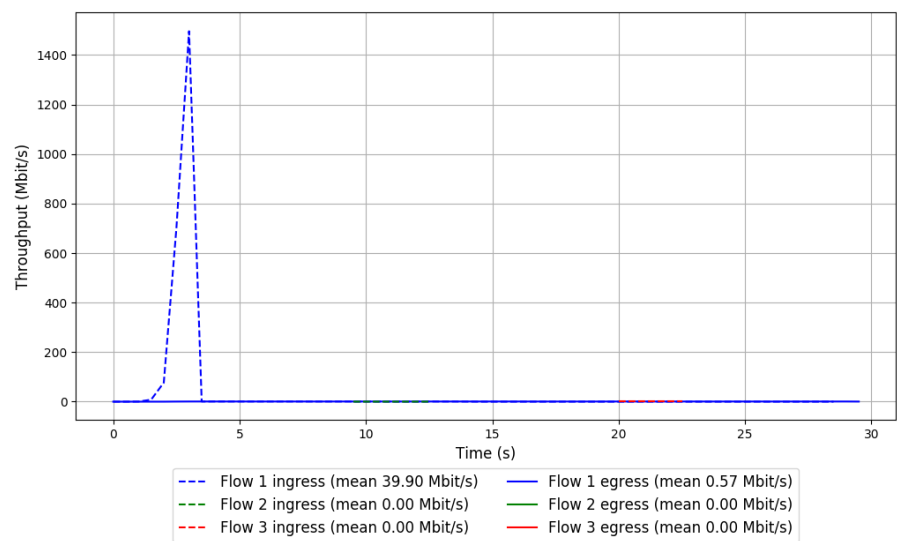


Run 1: Statistics of PCC

Start at: 2018-02-13 11:07:17
End at: 2018-02-13 11:07:47
Local clock offset: -8.398 ms
Remote clock offset: -4.242 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 26151.249 ms
Loss rate: 98.54%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 26151.249 ms
Loss rate: 98.54%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-13 11:29:48

End at: 2018-02-13 11:30:18

Local clock offset: -8.502 ms

Remote clock offset: 1.48 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 26168.646 ms

Loss rate: 98.52%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 26168.646 ms

Loss rate: 98.52%

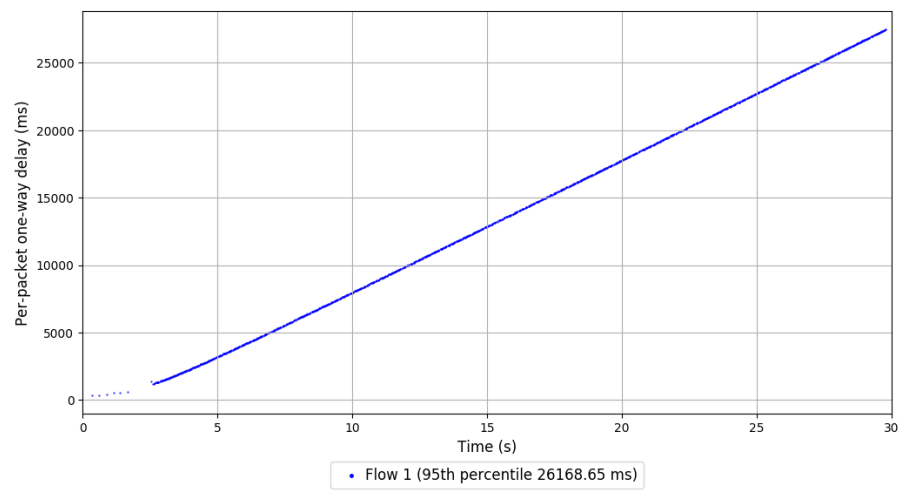
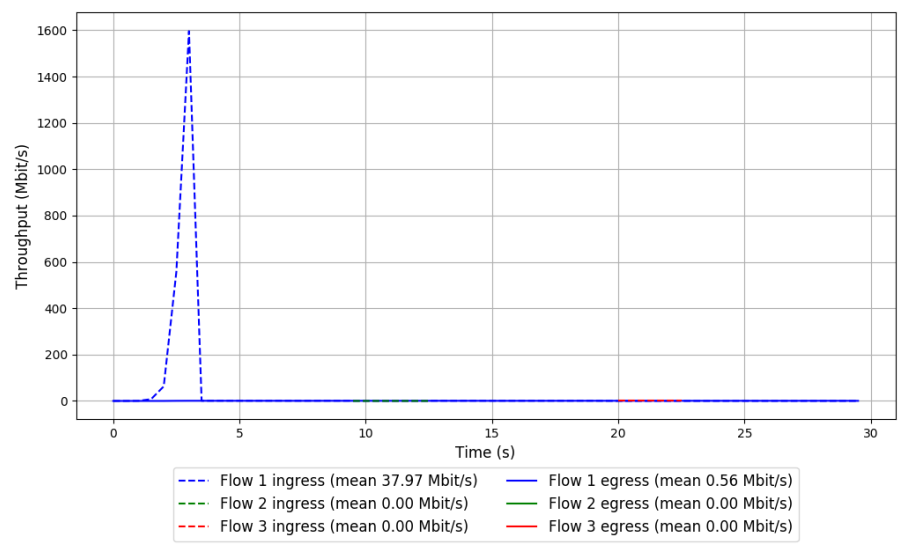
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 11:52:19

End at: 2018-02-13 11:52:49

Local clock offset: -3.197 ms

Remote clock offset: 1.226 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 26075.235 ms

Loss rate: 98.54%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 26075.235 ms

Loss rate: 98.54%

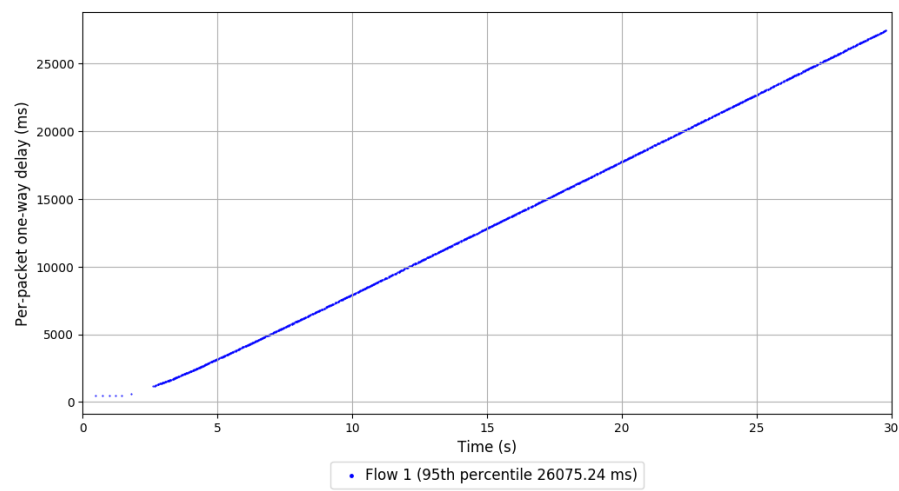
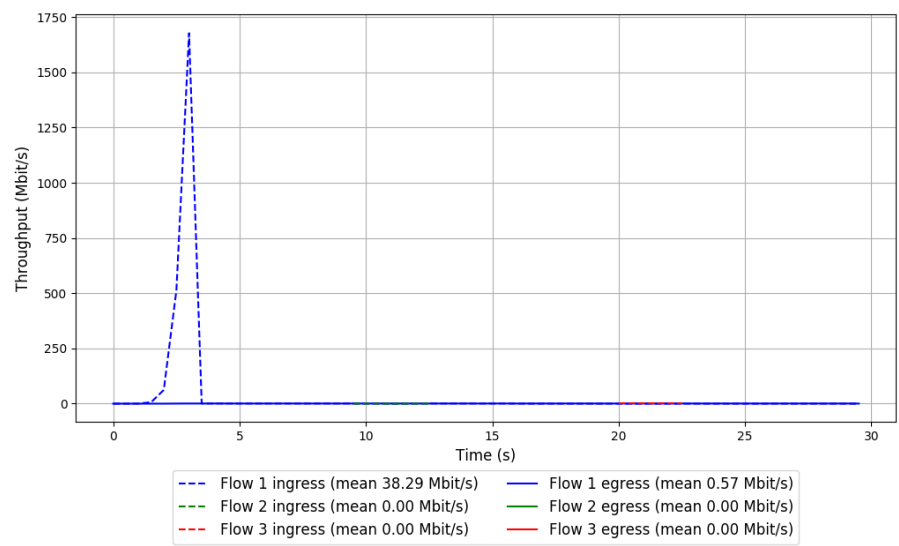
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 3: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 11:03:33

End at: 2018-02-13 11:04:03

Local clock offset: -8.742 ms

Remote clock offset: 1.373 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 7535.040 ms

Loss rate: 29.39%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 7476.632 ms

Loss rate: 29.19%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 7700.739 ms

Loss rate: 32.49%

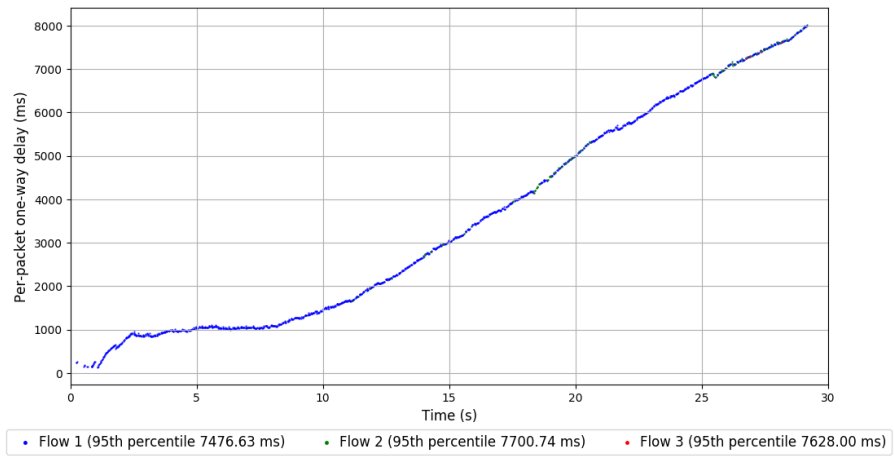
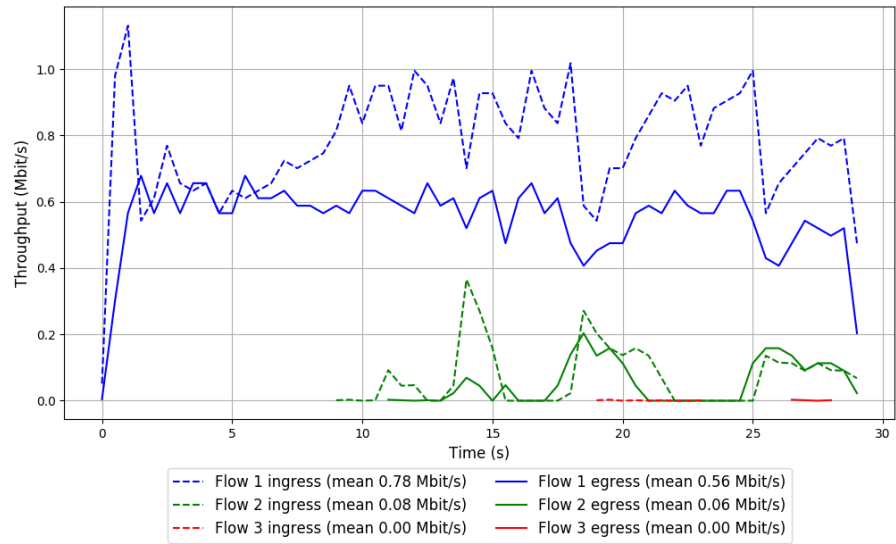
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 7628.000 ms

Loss rate: 33.33%

Run 1: Report of QUIC Cubic — Data Link

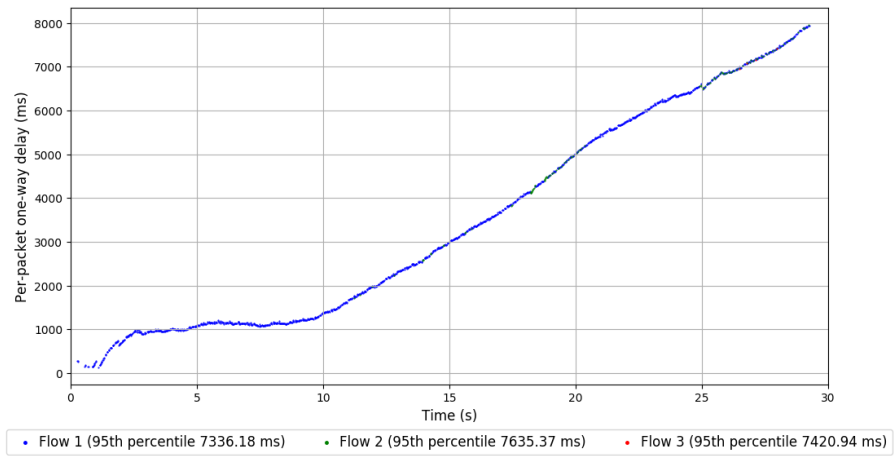
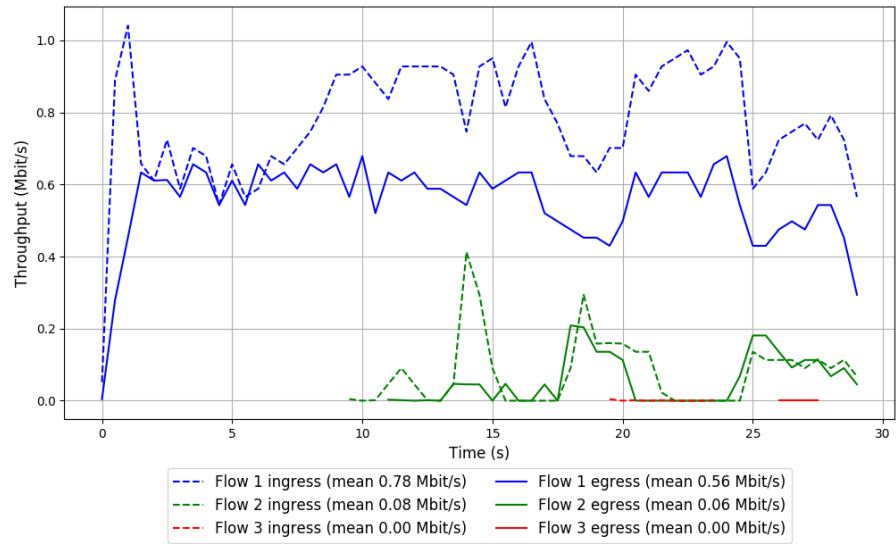


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 11:26:03
End at: 2018-02-13 11:26:33
Local clock offset: -8.343 ms
Remote clock offset: -4.049 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 7367.406 ms
Loss rate: 29.29%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 7336.182 ms
Loss rate: 29.08%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 7635.371 ms
Loss rate: 32.48%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 7420.943 ms
Loss rate: 33.33%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 11:48:35

End at: 2018-02-13 11:49:05

Local clock offset: -3.776 ms

Remote clock offset: -3.67 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 7359.759 ms

Loss rate: 27.96%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 7314.708 ms

Loss rate: 27.75%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 7669.710 ms

Loss rate: 31.04%

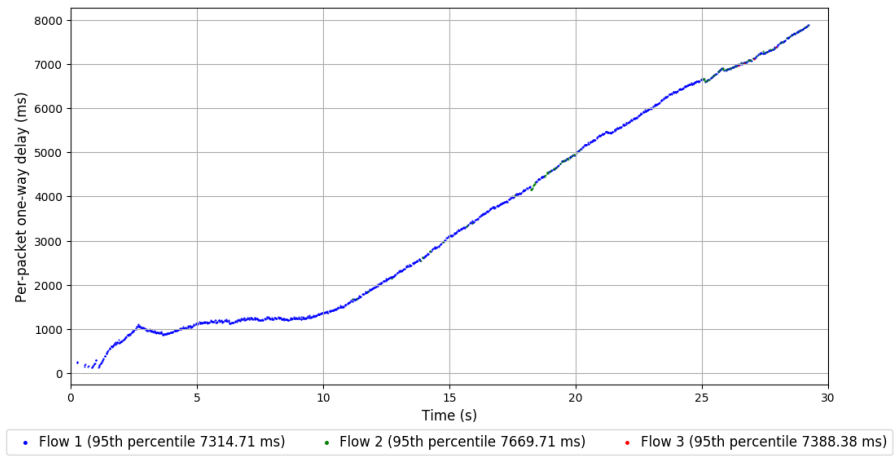
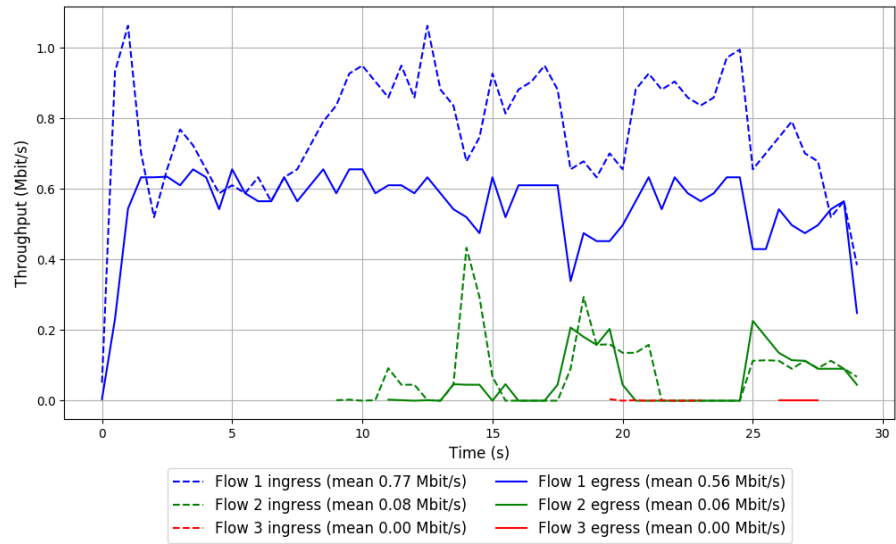
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 7388.377 ms

Loss rate: 33.33%

Run 3: Report of QUIC Cubic — Data Link

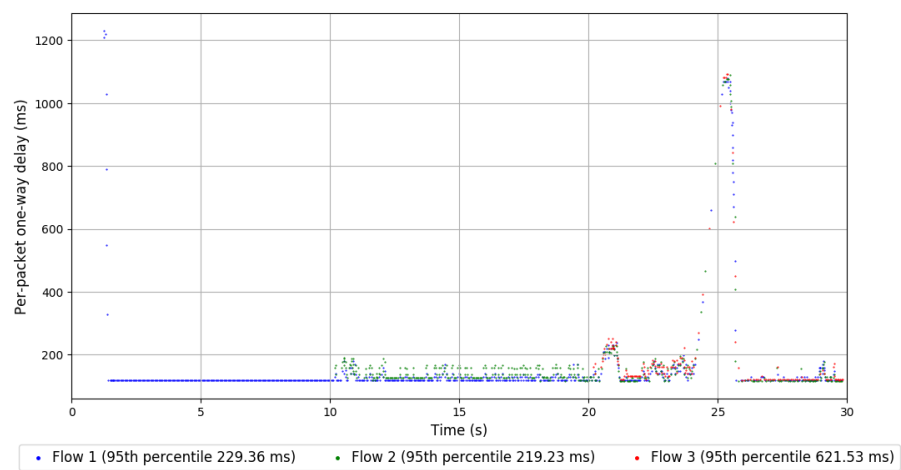
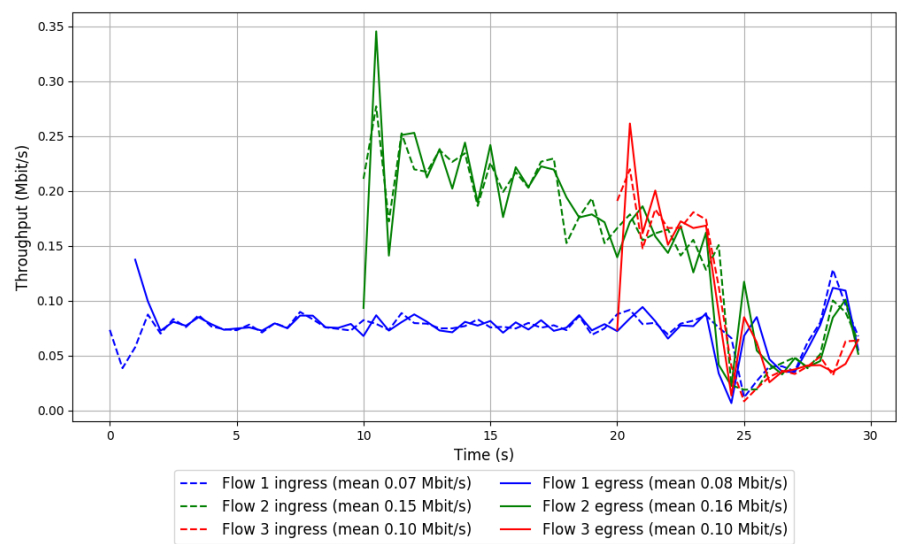


```
Run 1: Statistics of SCReAM

Start at: 2018-02-13 11:13:34
End at: 2018-02-13 11:14:04
Local clock offset: -8.208 ms
Remote clock offset: 1.447 ms

# Below is generated by plot.py at 2018-02-13 13:15:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 241.878 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 229.362 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 219.234 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 621.532 ms
Loss rate: 1.60%
```

Run 1: Report of SReAM — Data Link

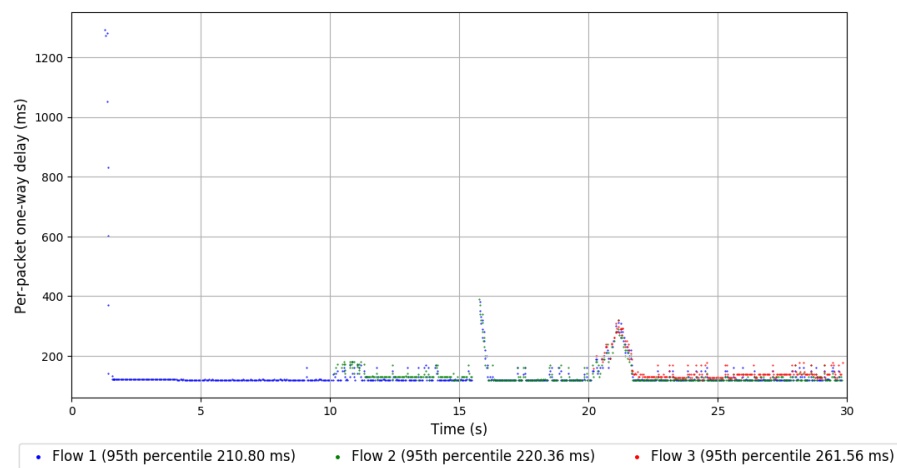
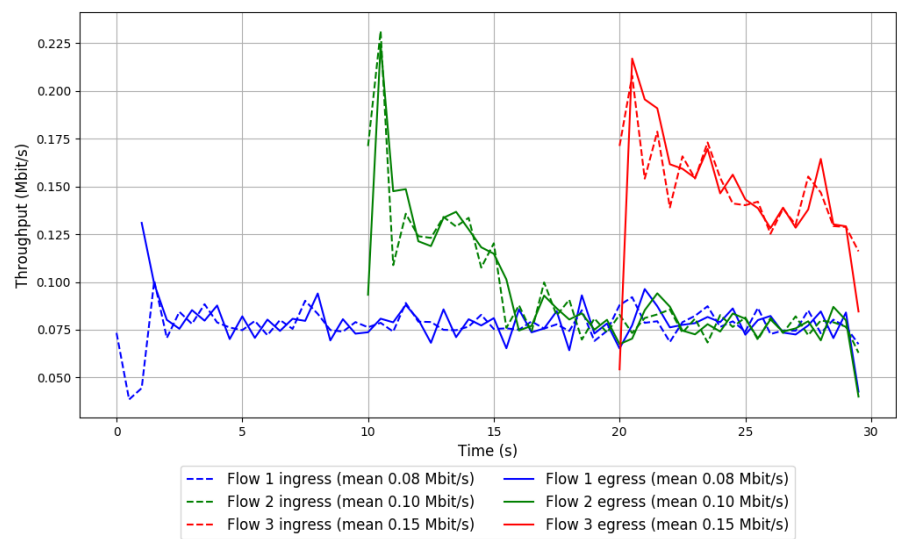


Run 2: Statistics of SCReAM

Start at: 2018-02-13 11:36:05
End at: 2018-02-13 11:36:35
Local clock offset: -7.843 ms
Remote clock offset: -3.511 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 230.435 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 210.803 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 220.356 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 261.563 ms
Loss rate: 2.10%

Run 2: Report of SReAM — Data Link

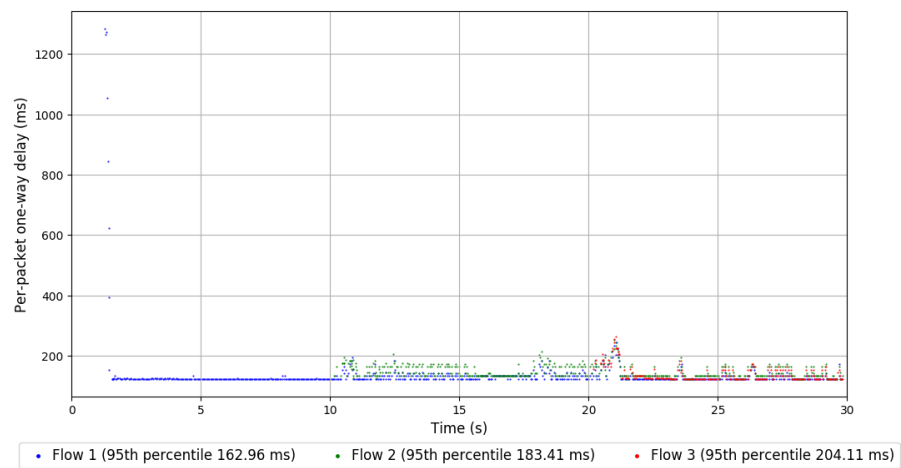
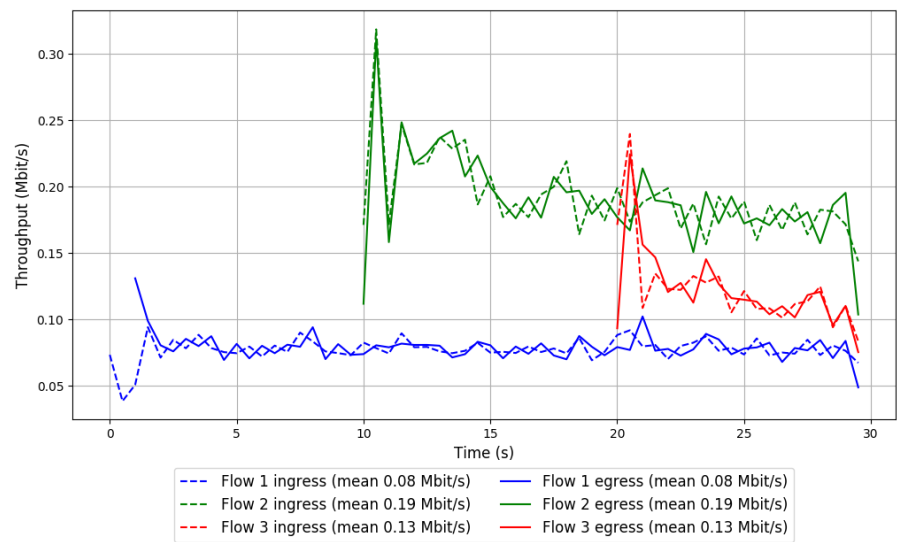


Run 3: Statistics of SCReAM

Start at: 2018-02-13 11:58:36
End at: 2018-02-13 11:59:06
Local clock offset: -2.596 ms
Remote clock offset: 1.172 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 182.766 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 162.957 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 183.406 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 204.110 ms
Loss rate: 1.66%

Run 3: Report of SCReAM — Data Link

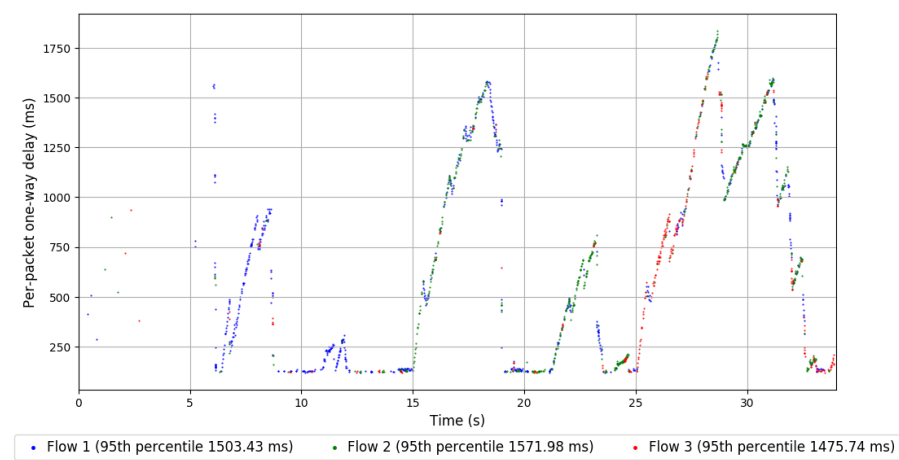
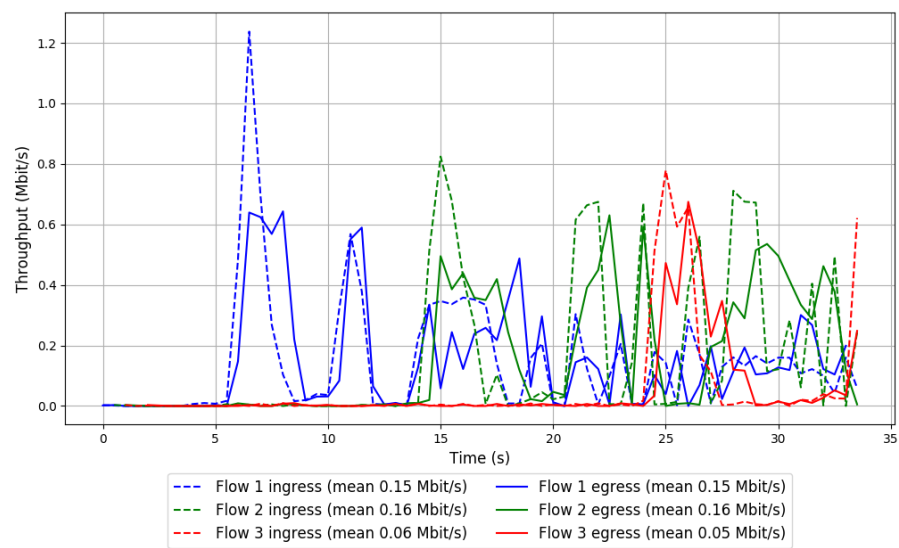


Run 1: Statistics of WebRTC media

Start at: 2018-02-13 11:08:33
End at: 2018-02-13 11:09:03
Local clock offset: -8.269 ms
Remote clock offset: -4.206 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 1535.150 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1503.433 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 1571.984 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1475.736 ms
Loss rate: 10.02%

Run 1: Report of WebRTC media — Data Link

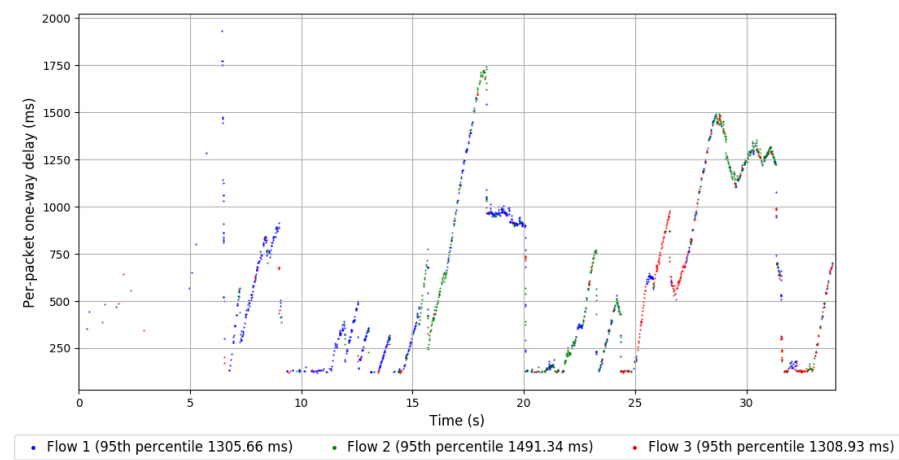
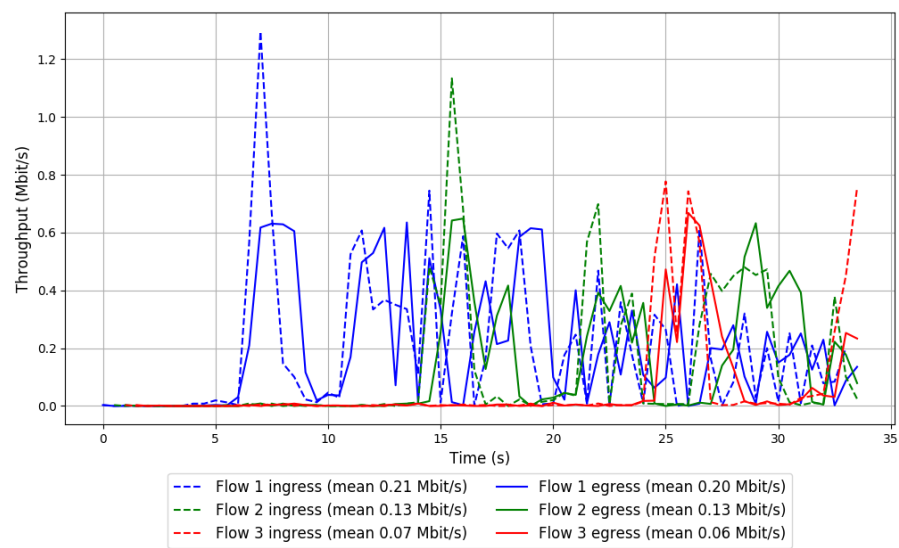


Run 2: Statistics of WebRTC media

Start at: 2018-02-13 11:31:04
End at: 2018-02-13 11:31:34
Local clock offset: -8.53 ms
Remote clock offset: -4.194 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 1433.583 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 1305.663 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 1491.336 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 1308.935 ms
Loss rate: 21.31%

Run 2: Report of WebRTC media — Data Link

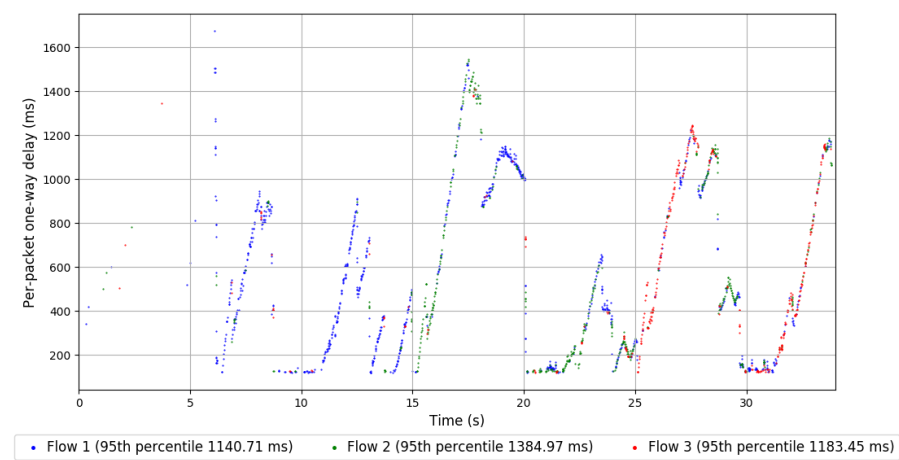
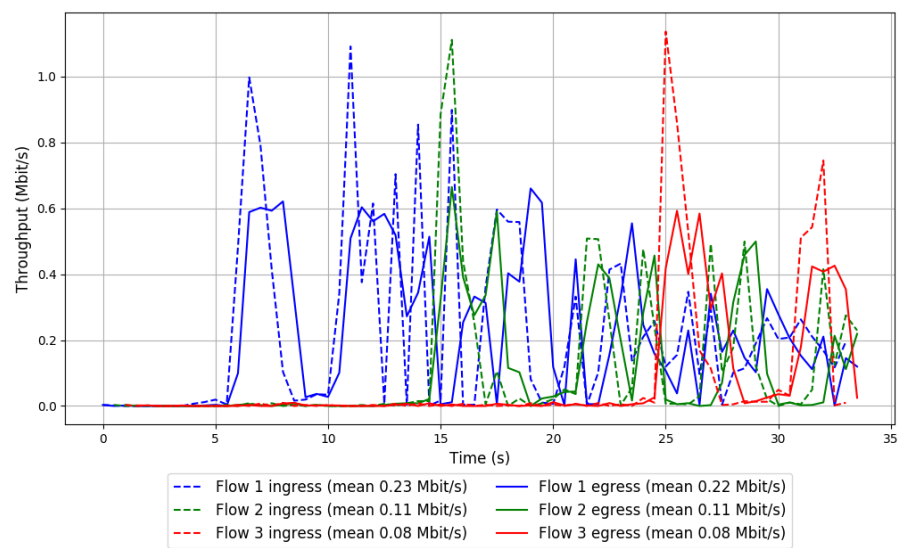


Run 3: Statistics of WebRTC media

Start at: 2018-02-13 11:53:36
End at: 2018-02-13 11:54:06
Local clock offset: -3.138 ms
Remote clock offset: -3.626 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 1186.635 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1140.715 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 1384.973 ms
Loss rate: 7.06%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 1183.449 ms
Loss rate: 0.20%

Run 3: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-13 11:19:48

End at: 2018-02-13 11:20:18

Local clock offset: -8.198 ms

Remote clock offset: -3.25 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 378.535 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 668.518 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 226.352 ms

Loss rate: 2.92%

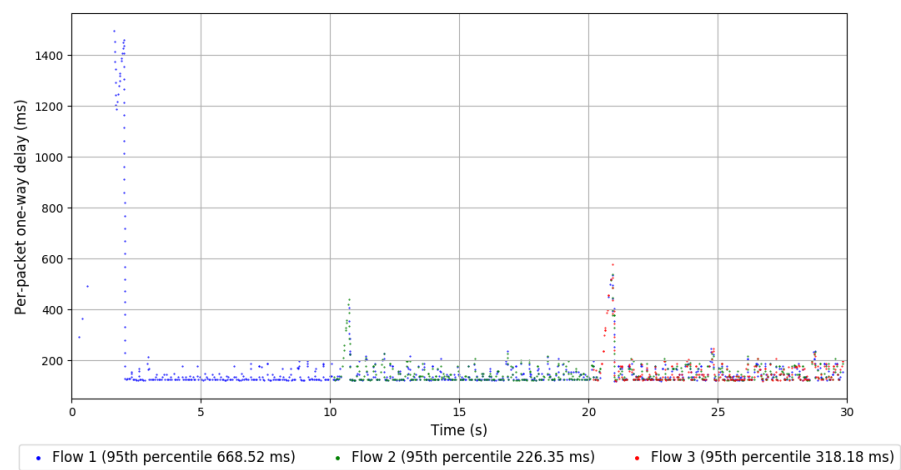
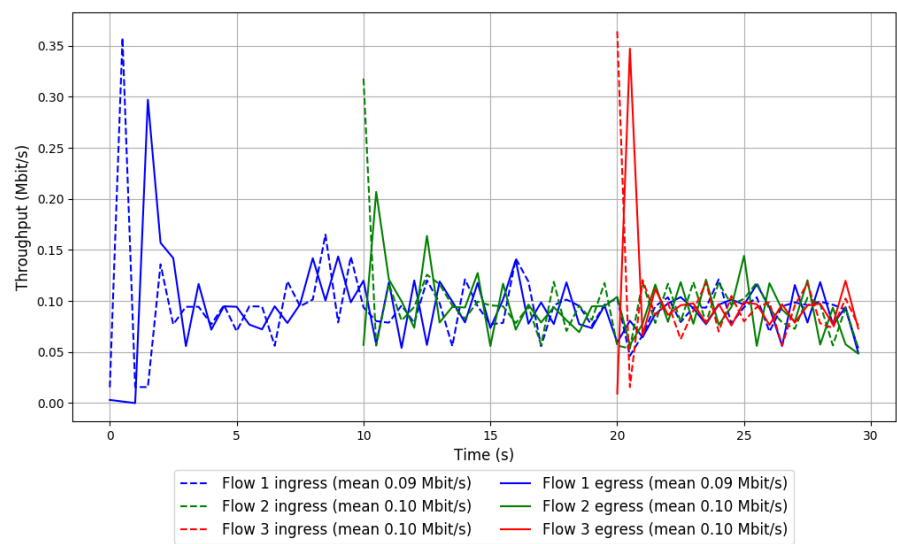
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 318.184 ms

Loss rate: 1.32%

Run 1: Report of Sprout — Data Link

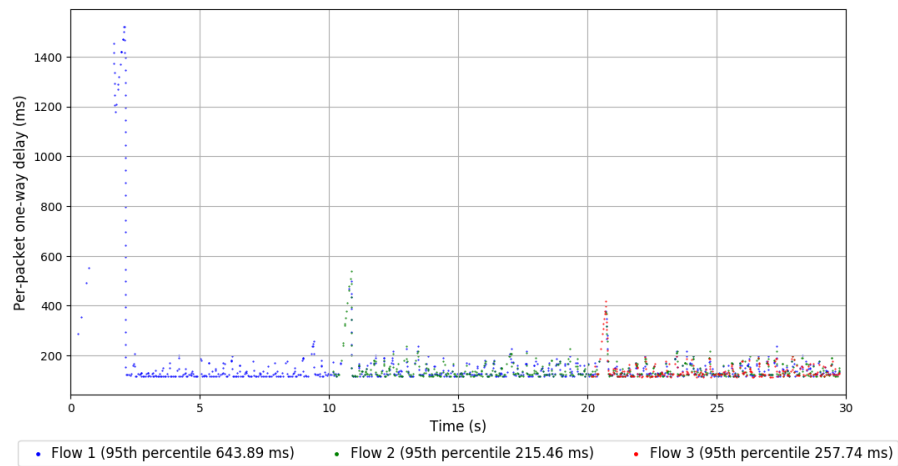
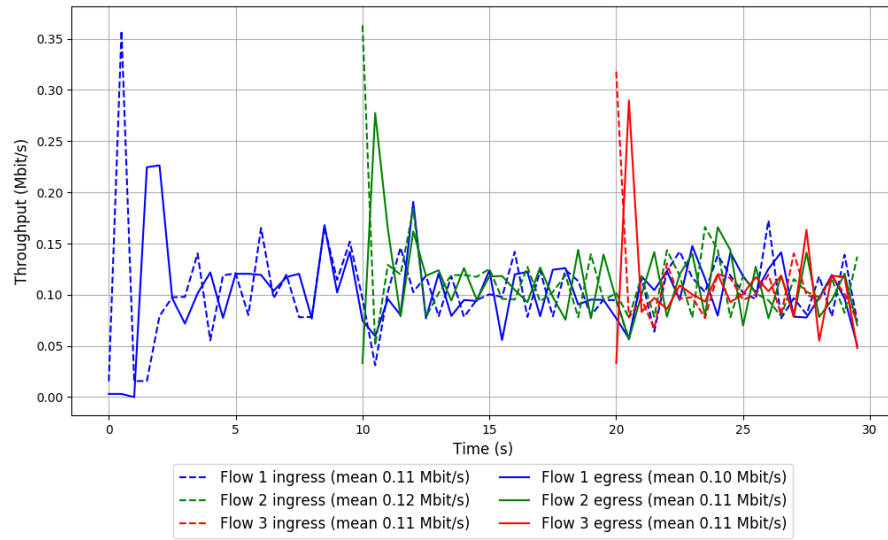


Run 2: Statistics of Sprout

Start at: 2018-02-13 11:42:20
End at: 2018-02-13 11:42:50
Local clock offset: -5.125 ms
Remote clock offset: 1.17 ms

```
# Below is generated by plot.py at 2018-02-13 13:15:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 328.801 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 643.895 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 215.455 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 257.735 ms
Loss rate: 4.28%
```


Run 2: Report of Sprout — Data Link

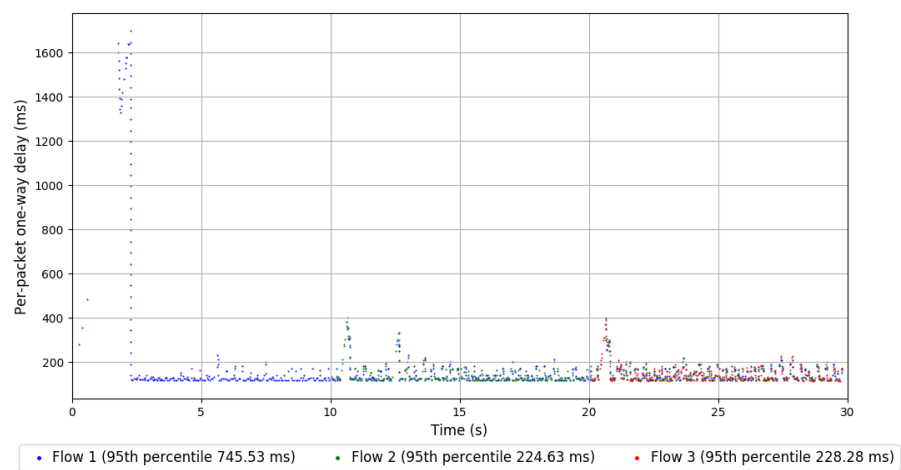
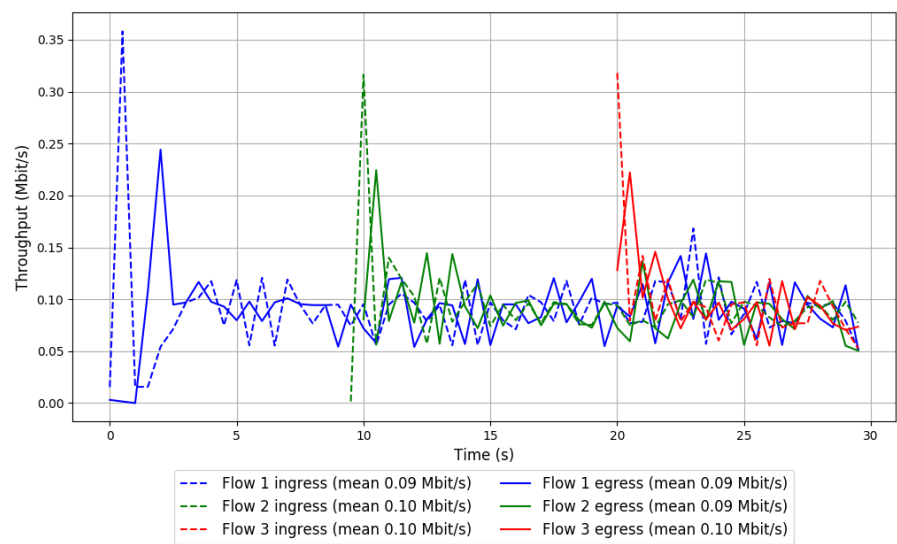


Run 3: Statistics of Sprout

Start at: 2018-02-13 12:04:51
End at: 2018-02-13 12:05:21
Local clock offset: -2.188 ms
Remote clock offset: 0.264 ms

```
# Below is generated by plot.py at 2018-02-13 13:15:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 298.840 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 745.533 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 224.630 ms
Loss rate: 3.58%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 228.278 ms
Loss rate: 2.08%
```

Run 3: Report of Sprout — Data Link

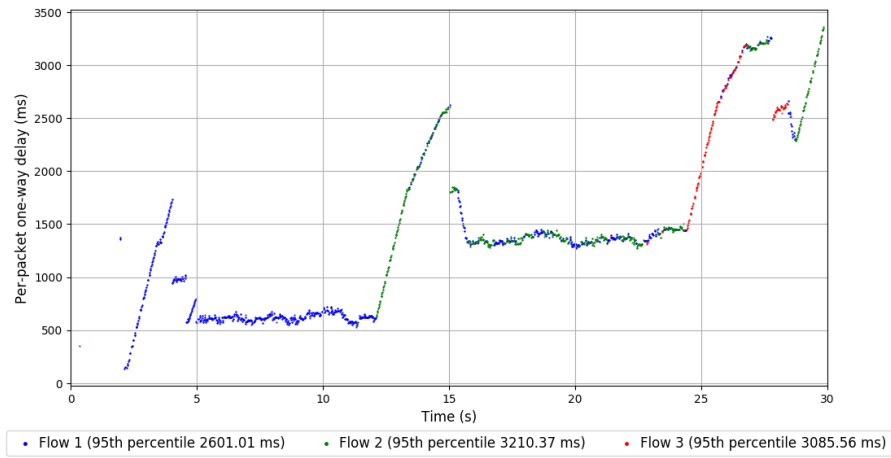
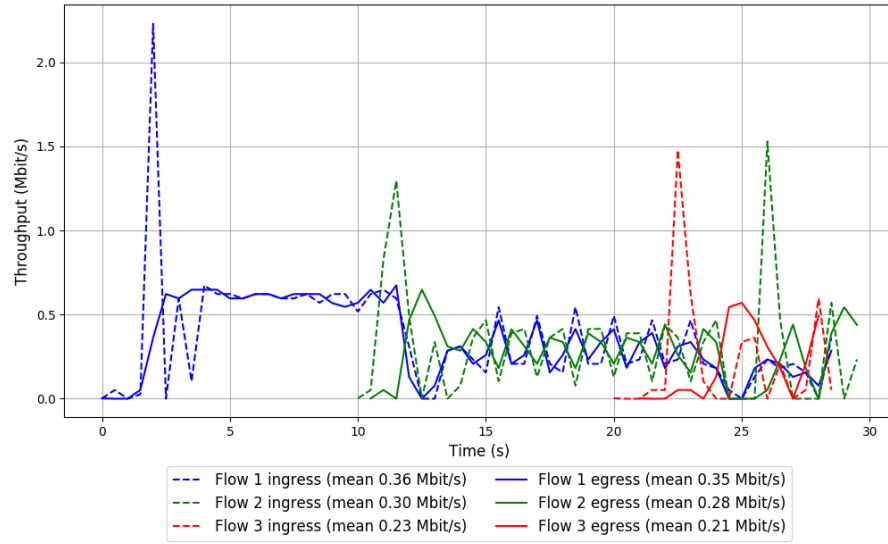


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 11:01:03
End at: 2018-02-13 11:01:33
Local clock offset: -9.04 ms
Remote clock offset: 2.064 ms

# Below is generated by plot.py at 2018-02-13 13:15:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 3132.647 ms
Loss rate: 8.78%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 2601.014 ms
Loss rate: 4.35%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 3210.373 ms
Loss rate: 11.74%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 3085.556 ms
Loss rate: 23.17%
```

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

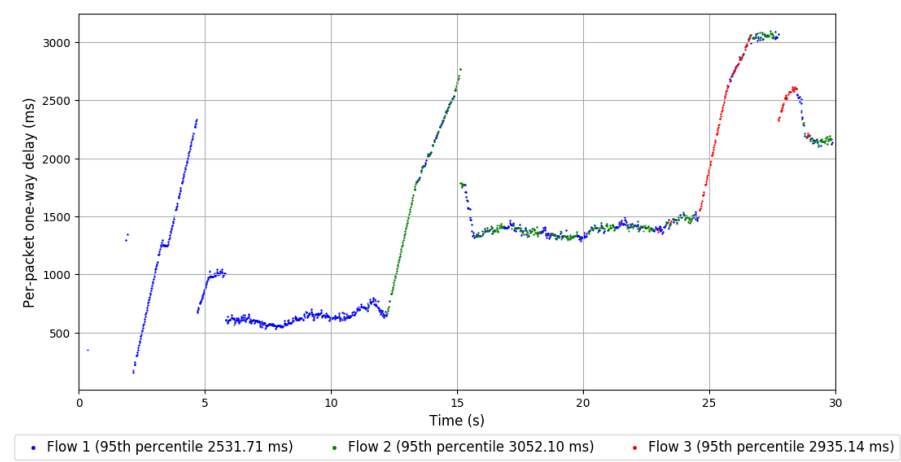
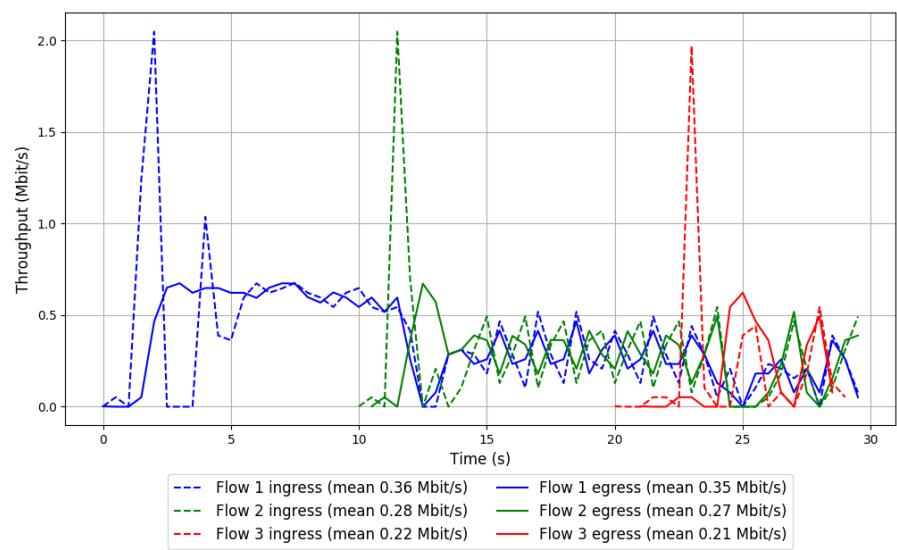


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 11:23:33
End at: 2018-02-13 11:24:03
Local clock offset: -8.276 ms
Remote clock offset: -3.193 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 2871.929 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 2531.708 ms
Loss rate: 4.08%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 3052.098 ms
Loss rate: 8.12%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 2935.138 ms
Loss rate: 22.72%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 11:46:06

End at: 2018-02-13 11:46:36

Local clock offset: -4.164 ms

Remote clock offset: 1.205 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 3082.311 ms

Loss rate: 10.99%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 2590.281 ms

Loss rate: 4.51%

-- Flow 2:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 3172.320 ms

Loss rate: 17.77%

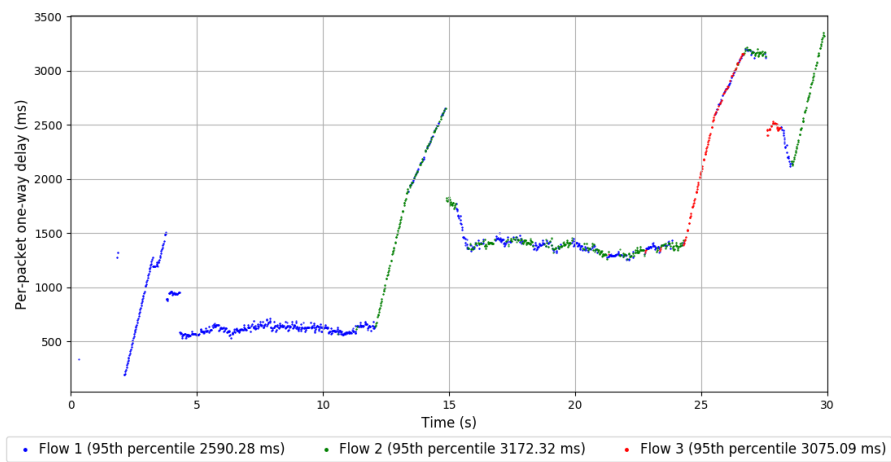
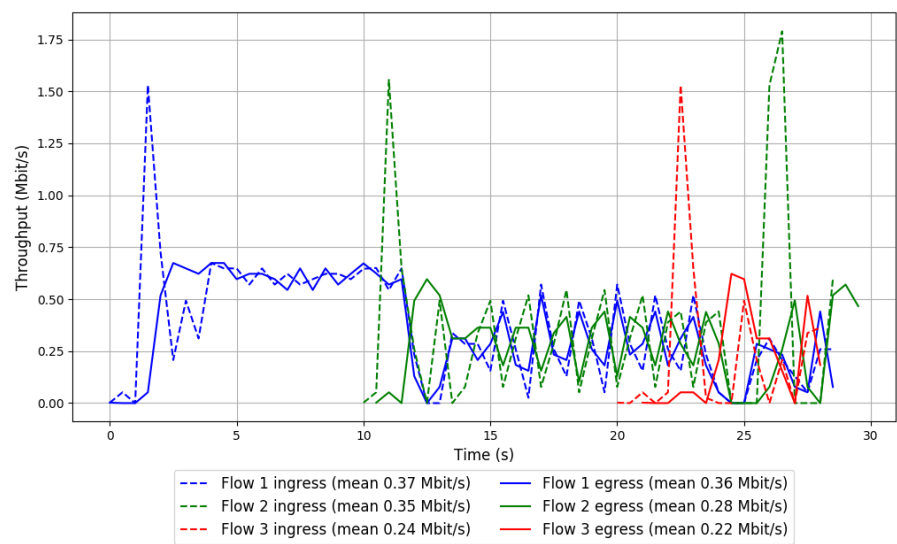
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3075.091 ms

Loss rate: 23.17%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-13 11:02:18

End at: 2018-02-13 11:02:48

Local clock offset: -8.817 ms

Remote clock offset: -3.52 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 1741.720 ms

Loss rate: 5.59%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 1661.323 ms

Loss rate: 3.27%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1821.504 ms

Loss rate: 6.57%

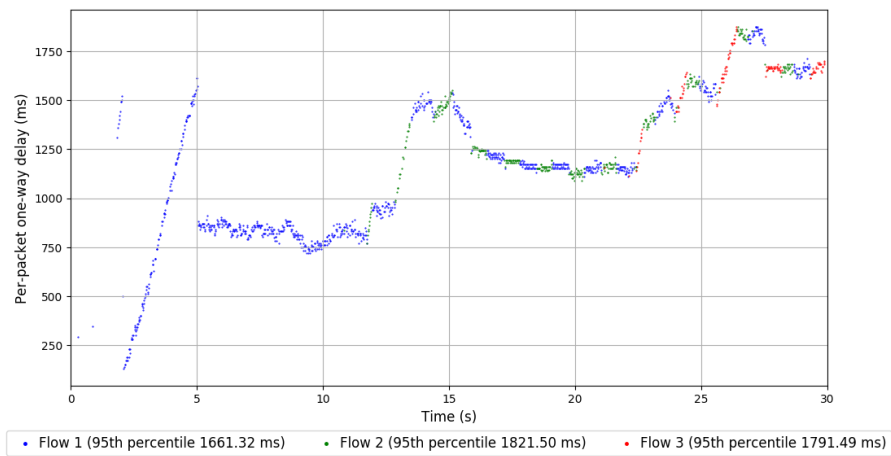
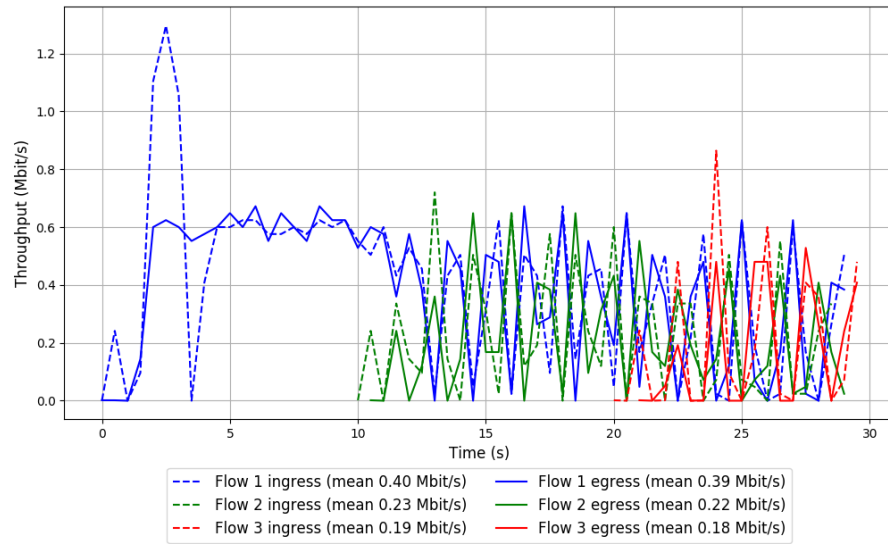
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 1791.493 ms

Loss rate: 17.69%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 11:24:48

End at: 2018-02-13 11:25:18

Local clock offset: -8.326 ms

Remote clock offset: 0.741 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 1916.391 ms

Loss rate: 6.08%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 1826.317 ms

Loss rate: 3.28%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1996.504 ms

Loss rate: 6.85%

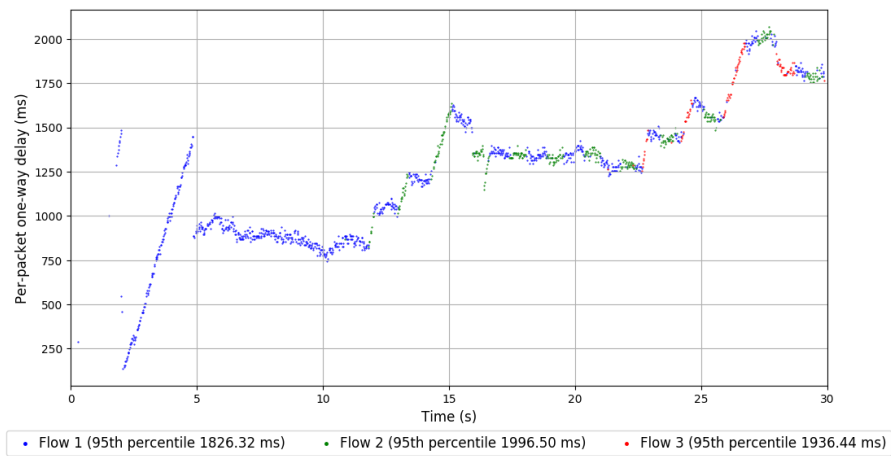
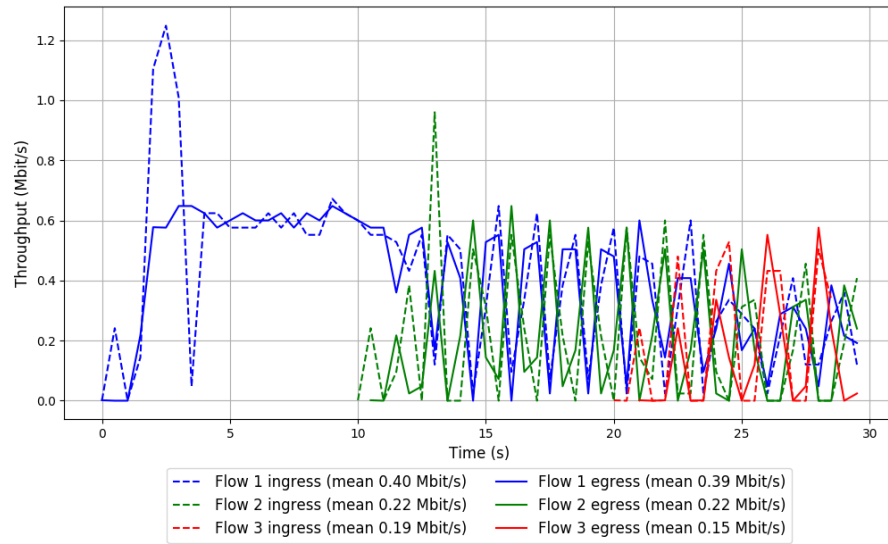
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1936.442 ms

Loss rate: 24.07%

Run 2: Report of TCP Vegas — Data Link

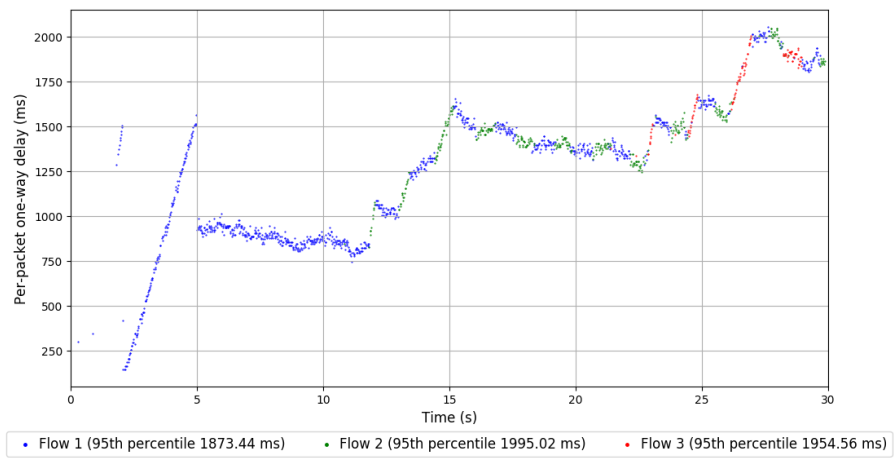
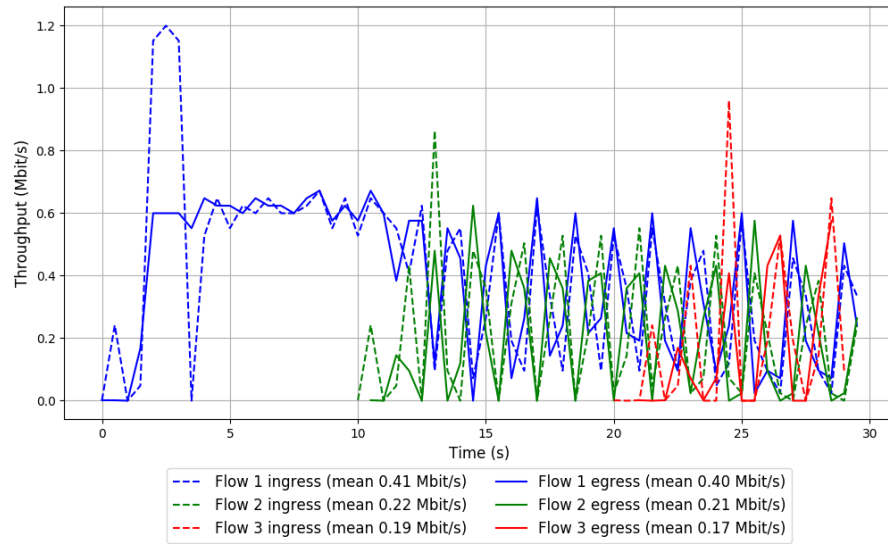


Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 11:47:20
End at: 2018-02-13 11:47:50
Local clock offset: -4.042 ms
Remote clock offset: -3.591 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 1933.760 ms
Loss rate: 6.51%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 1873.438 ms
Loss rate: 3.63%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 1995.020 ms
Loss rate: 6.98%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 1954.563 ms
Loss rate: 25.47%

Run 3: Report of TCP Vegas — Data Link

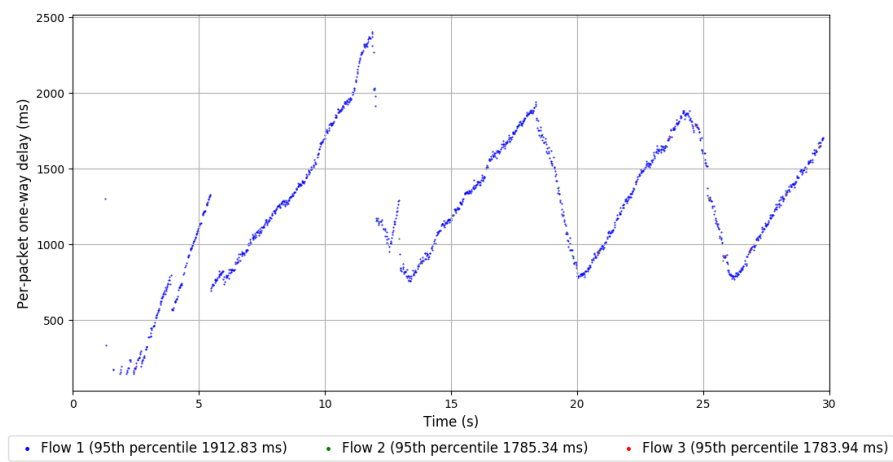
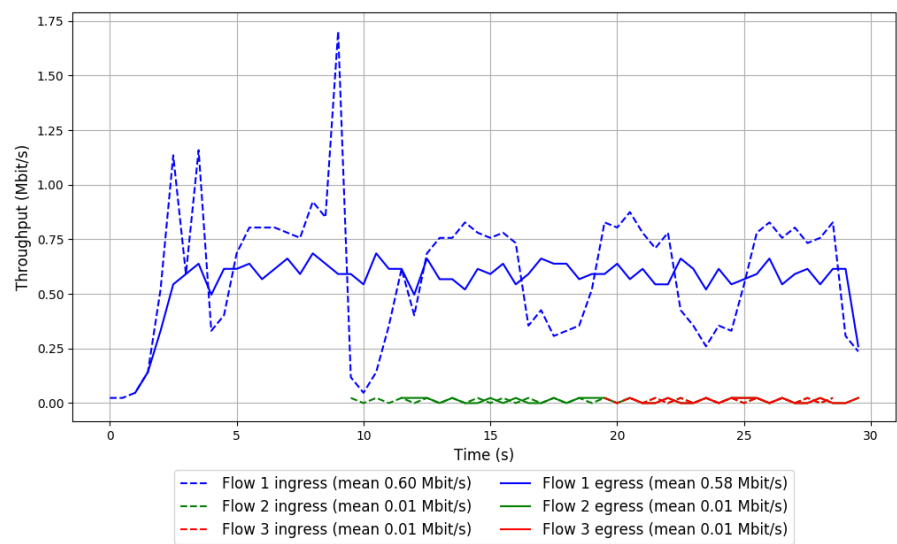


Run 1: Statistics of Verus

Start at: 2018-02-13 11:06:02
End at: 2018-02-13 11:06:32
Local clock offset: -8.411 ms
Remote clock offset: -4.35 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 1912.830 ms
Loss rate: 7.29%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 1912.830 ms
Loss rate: 7.30%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1785.343 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1783.936 ms
Loss rate: 10.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-13 11:28:33

End at: 2018-02-13 11:29:03

Local clock offset: -8.507 ms

Remote clock offset: 2.352 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 2054.494 ms

Loss rate: 6.77%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 2049.833 ms

Loss rate: 6.65%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 2161.132 ms

Loss rate: 8.70%

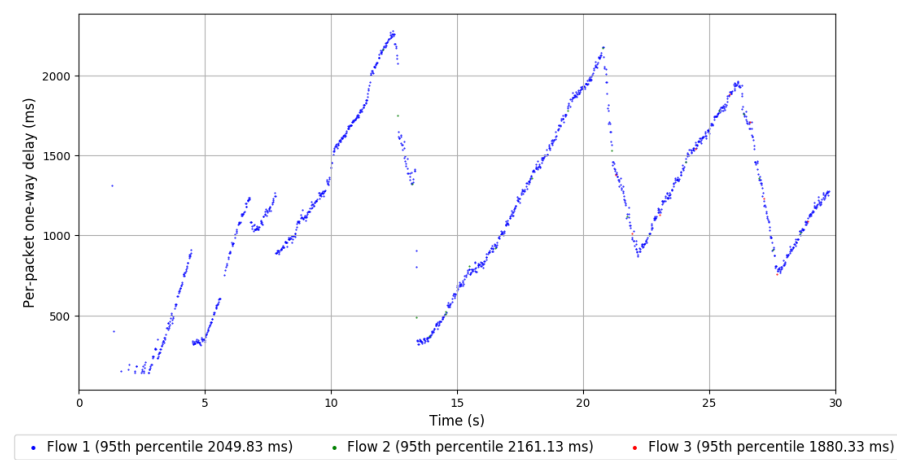
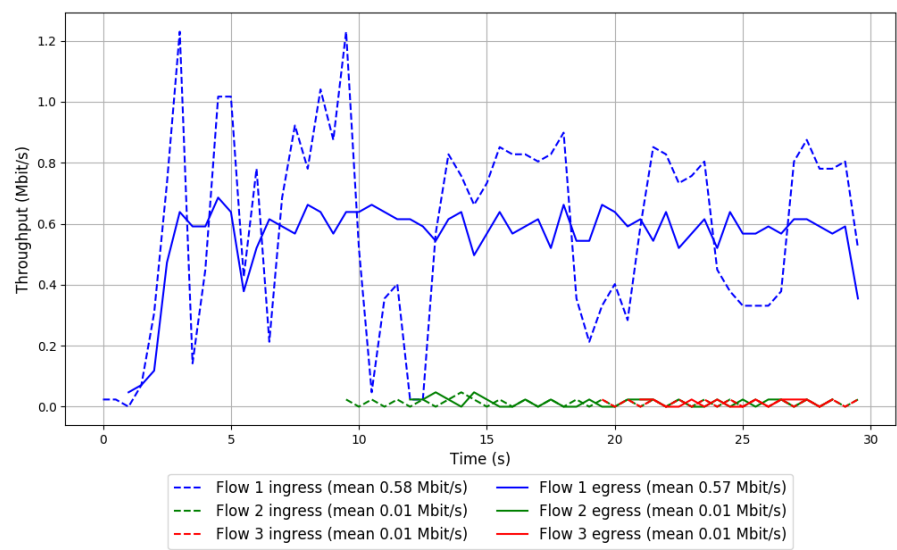
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 1880.332 ms

Loss rate: 18.18%

Run 2: Report of Verus — Data Link

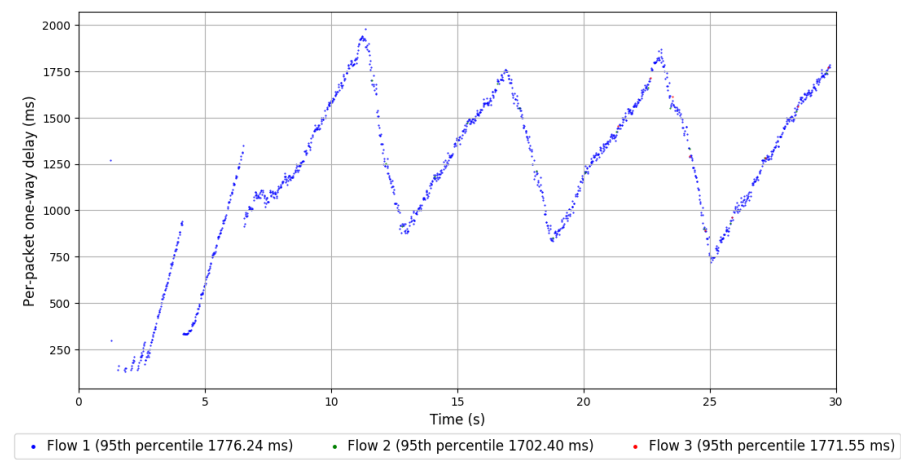
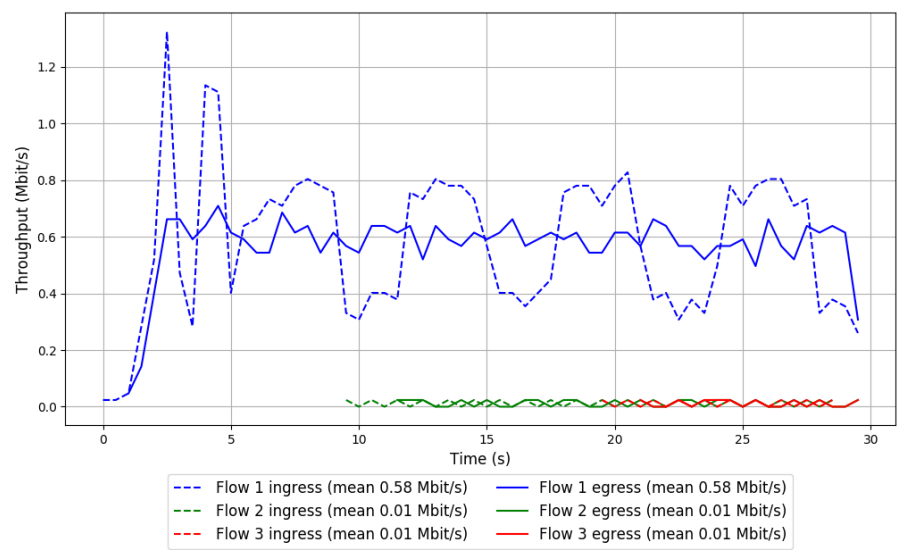


Run 3: Statistics of Verus

Start at: 2018-02-13 11:51:04
End at: 2018-02-13 11:51:34
Local clock offset: -3.346 ms
Remote clock offset: 0.359 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 1771.547 ms
Loss rate: 3.88%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 1776.245 ms
Loss rate: 3.83%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1702.404 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1771.547 ms
Loss rate: 10.00%

Run 3: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-13 11:21:03

End at: 2018-02-13 11:21:33

Local clock offset: -8.208 ms

Remote clock offset: 1.567 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 457.653 ms

Loss rate: 6.07%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 393.778 ms

Loss rate: 4.24%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 469.820 ms

Loss rate: 6.08%

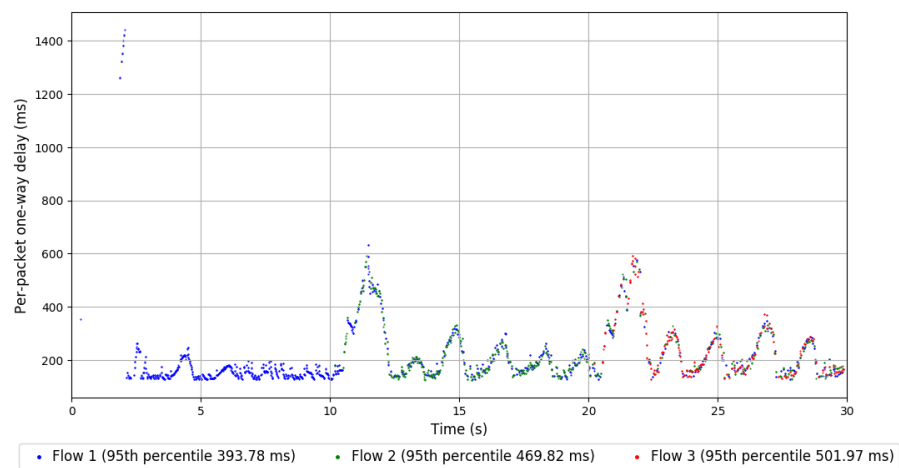
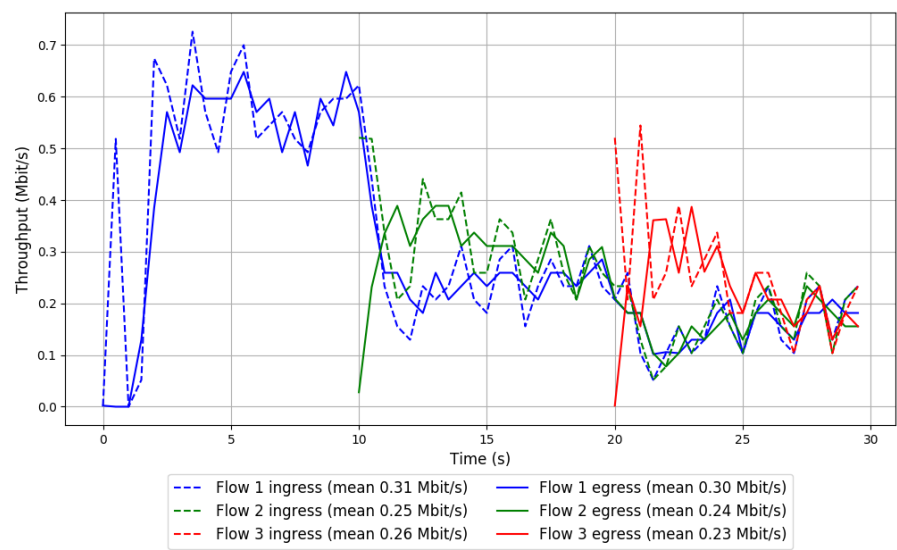
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 501.970 ms

Loss rate: 12.69%

Run 1: Report of Copa — Data Link

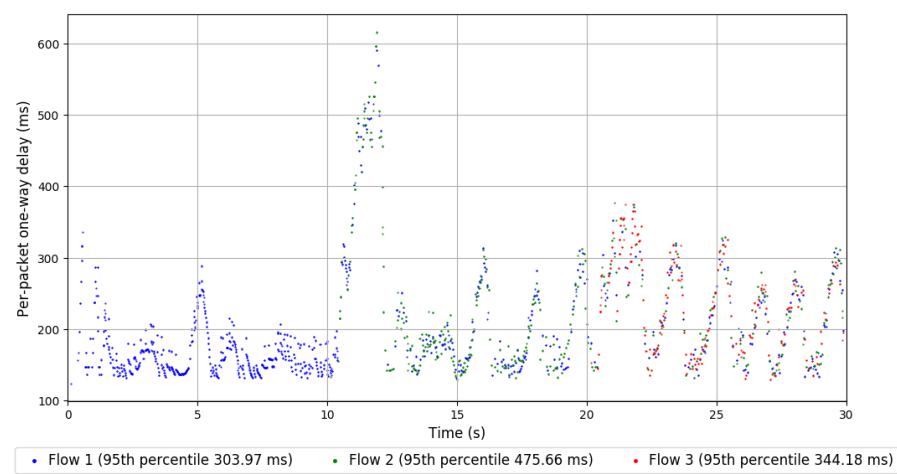
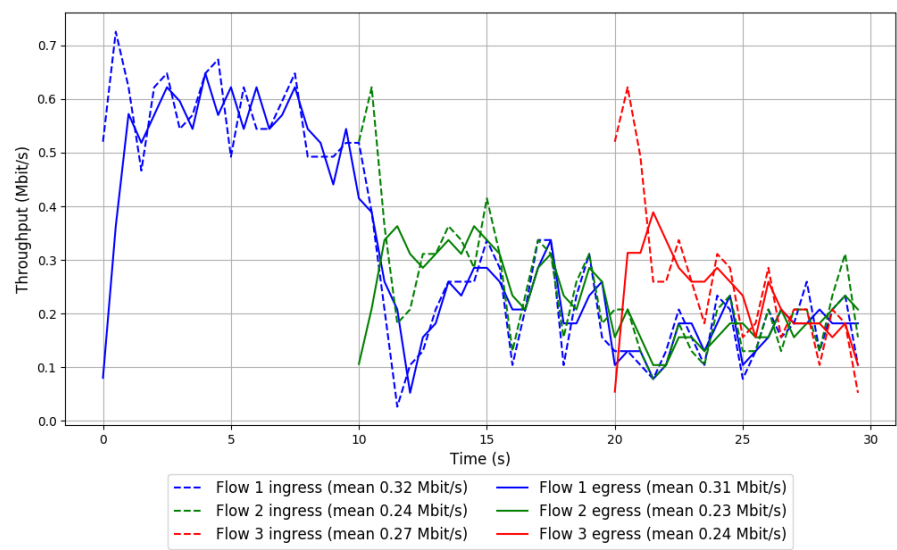


Run 2: Statistics of Copa

Start at: 2018-02-13 11:43:35
End at: 2018-02-13 11:44:05
Local clock offset: -4.759 ms
Remote clock offset: -4.395 ms

Below is generated by plot.py at 2018-02-13 13:15:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 351.961 ms
Loss rate: 5.80%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 303.973 ms
Loss rate: 3.73%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 475.659 ms
Loss rate: 6.21%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 344.177 ms
Loss rate: 12.73%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-13 12:06:06

End at: 2018-02-13 12:06:36

Local clock offset: -2.152 ms

Remote clock offset: 1.165 ms

Below is generated by plot.py at 2018-02-13 13:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 487.522 ms

Loss rate: 7.43%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 462.860 ms

Loss rate: 6.29%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 449.370 ms

Loss rate: 6.48%

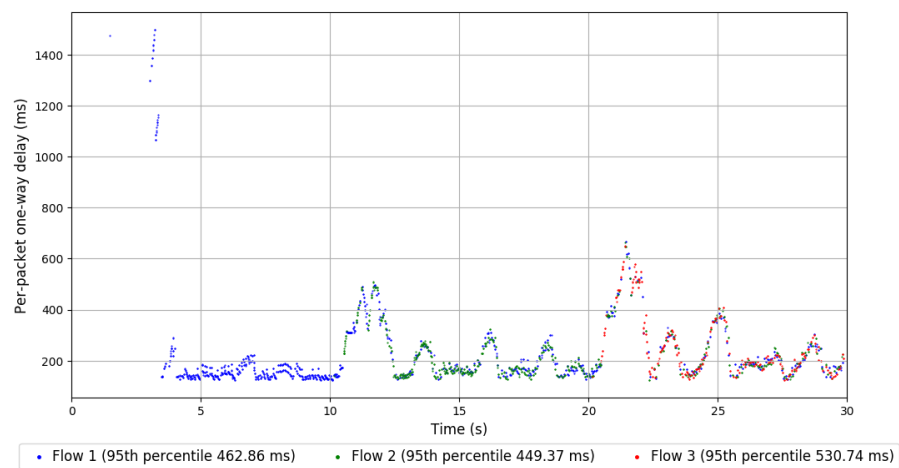
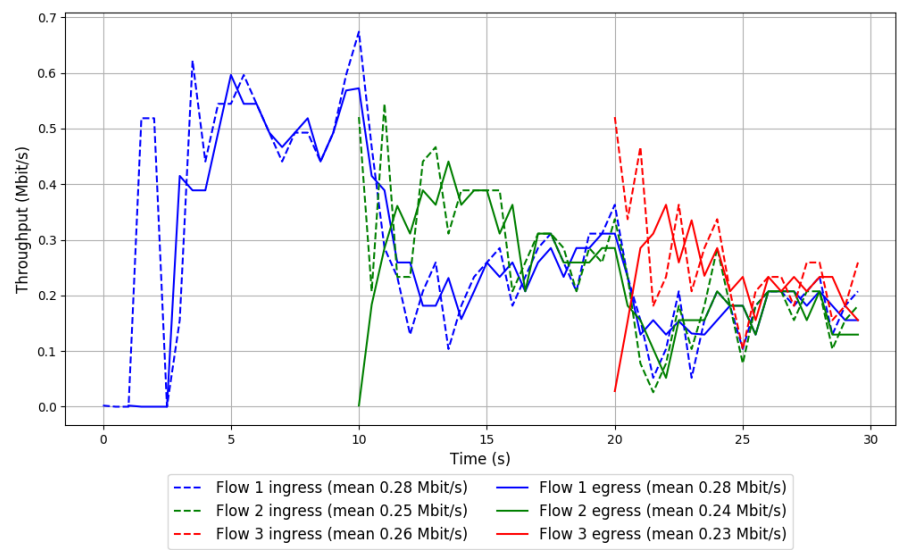
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 530.736 ms

Loss rate: 12.97%

Run 3: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-13 11:09:48

End at: 2018-02-13 11:10:18

Local clock offset: -8.223 ms

Remote clock offset: 2.227 ms

Below is generated by plot.py at 2018-02-13 13:15:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 26440.985 ms

Loss rate: 98.30%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 26440.985 ms

Loss rate: 98.30%

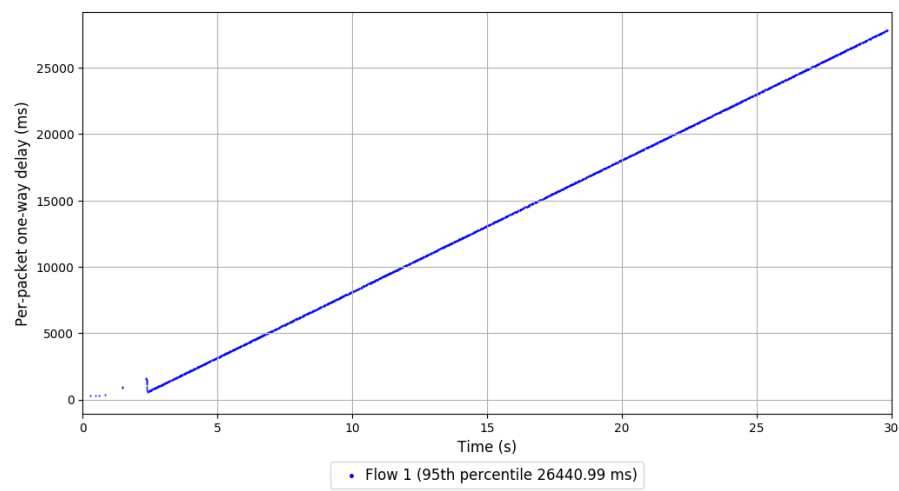
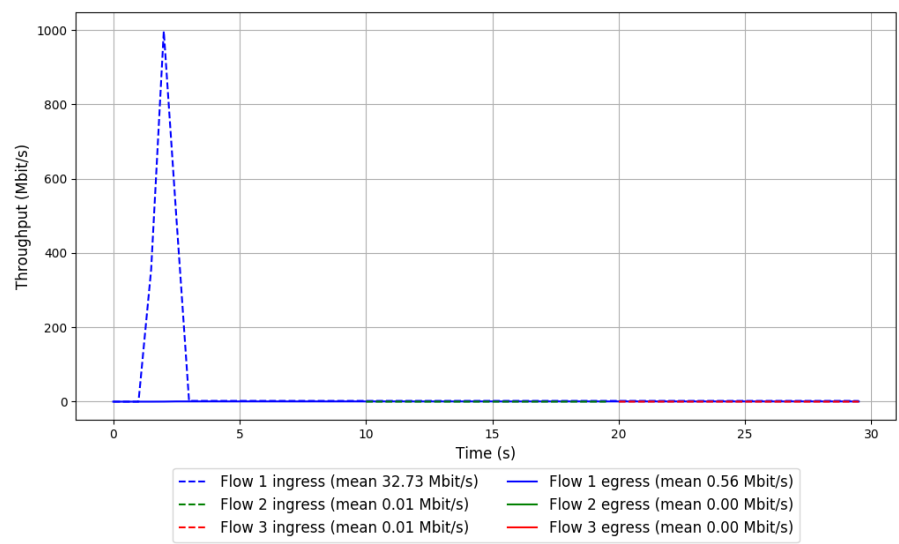
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-13 11:32:19

End at: 2018-02-13 11:32:49

Local clock offset: -8.647 ms

Remote clock offset: -4.22 ms

Below is generated by plot.py at 2018-02-13 13:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 25748.219 ms

Loss rate: 98.31%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 25748.219 ms

Loss rate: 98.31%

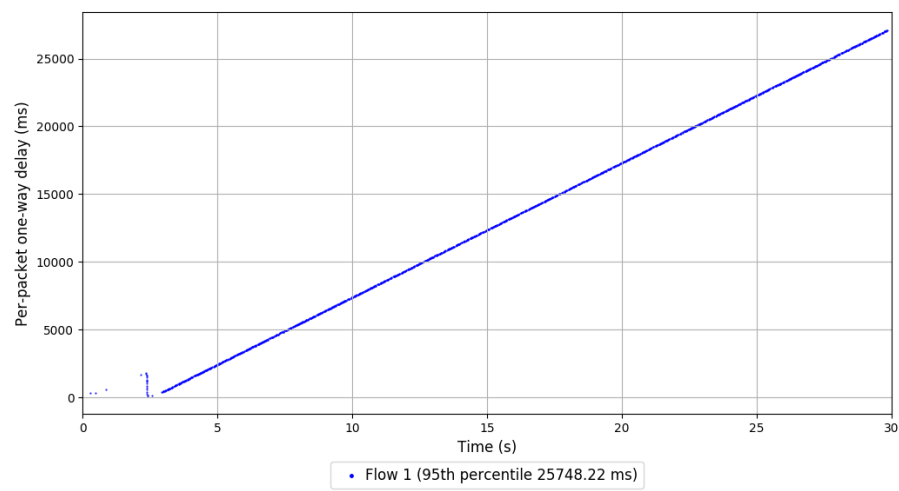
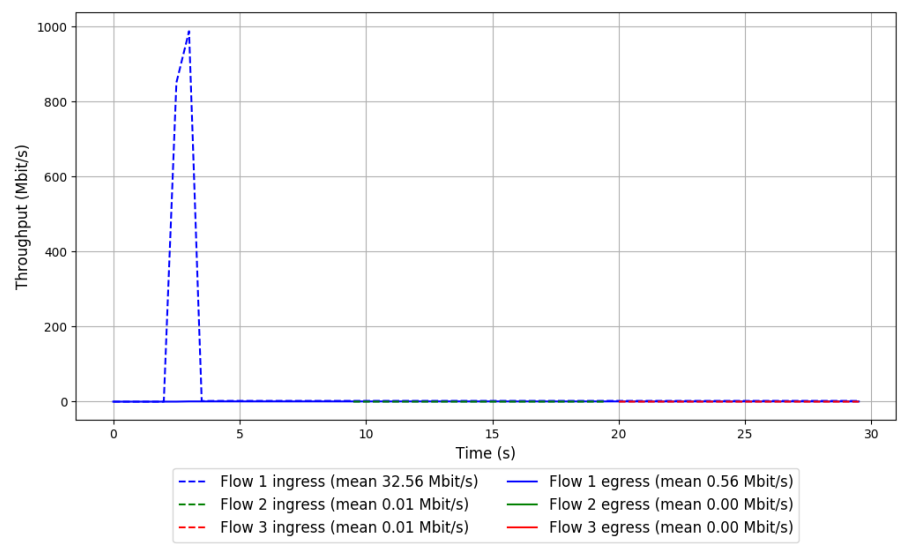
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-13 11:54:50

End at: 2018-02-13 11:55:20

Local clock offset: -3.015 ms

Remote clock offset: 1.254 ms

Below is generated by plot.py at 2018-02-13 13:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 25544.353 ms

Loss rate: 98.26%

-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 25544.353 ms

Loss rate: 98.26%

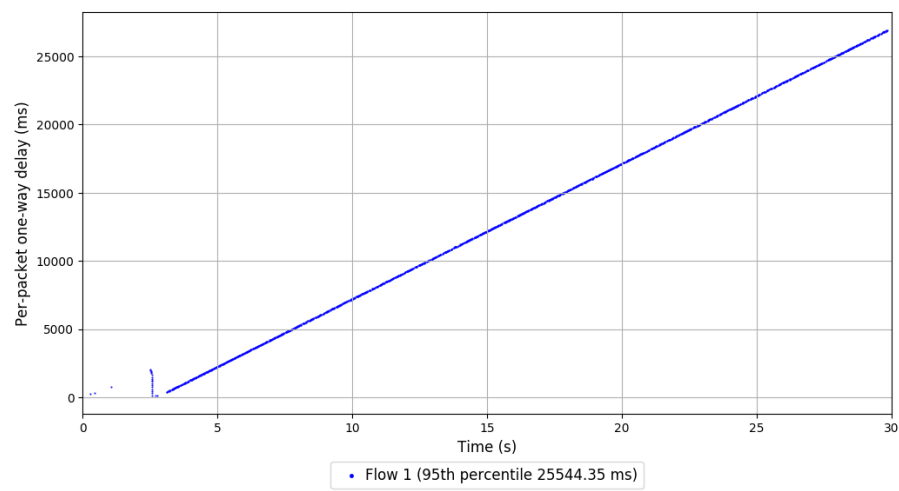
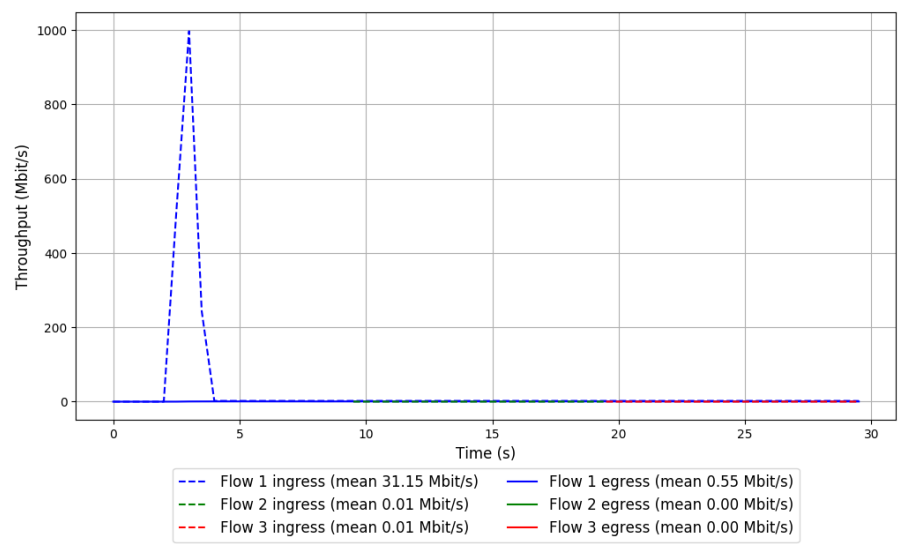
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 3: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 11:14:48

End at: 2018-02-13 11:15:18

Local clock offset: -8.128 ms

Remote clock offset: 1.48 ms

Below is generated by plot.py at 2018-02-13 13:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 644.345 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 622.062 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 524.213 ms

Loss rate: 1.71%

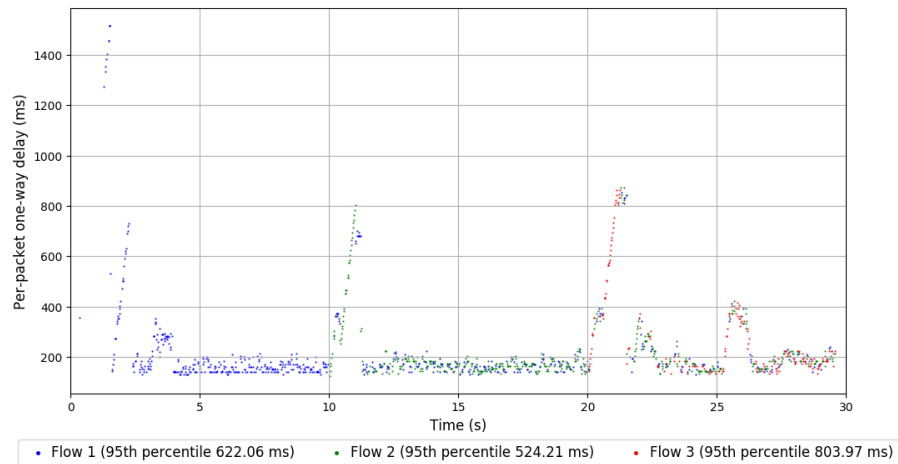
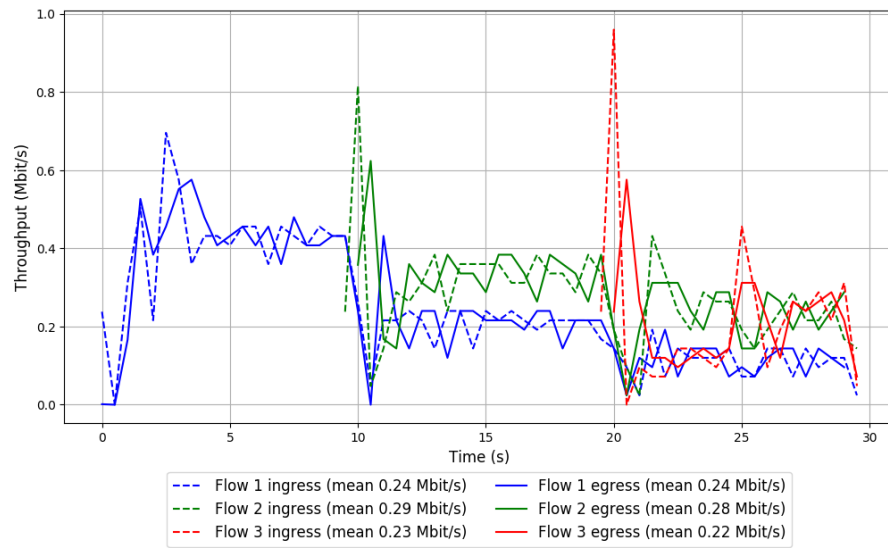
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 803.974 ms

Loss rate: 5.35%

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

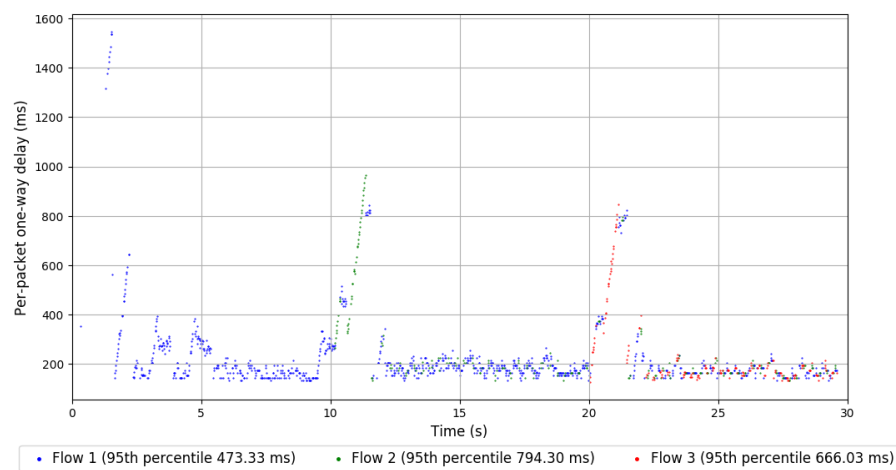
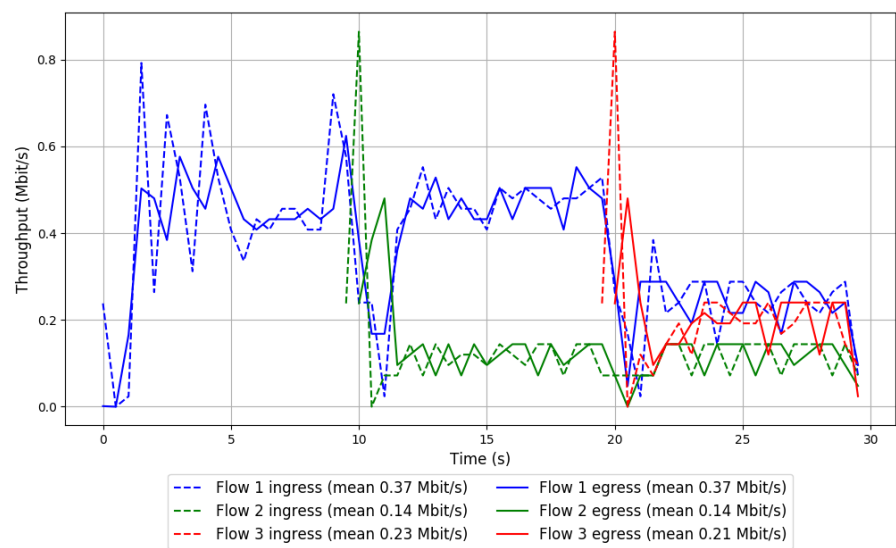


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 11:37:19
End at: 2018-02-13 11:37:49
Local clock offset: -7.132 ms
Remote clock offset: -4.323 ms

Below is generated by plot.py at 2018-02-13 13:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 644.287 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 473.330 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 794.300 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 666.029 ms
Loss rate: 7.11%

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

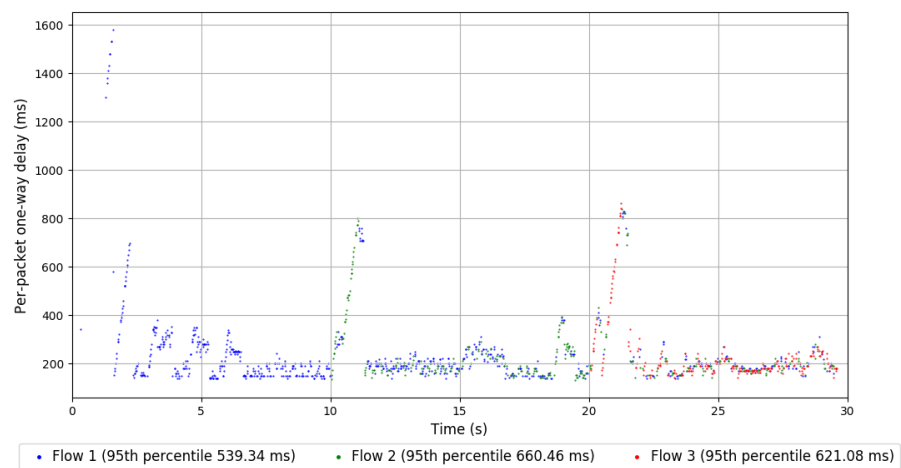
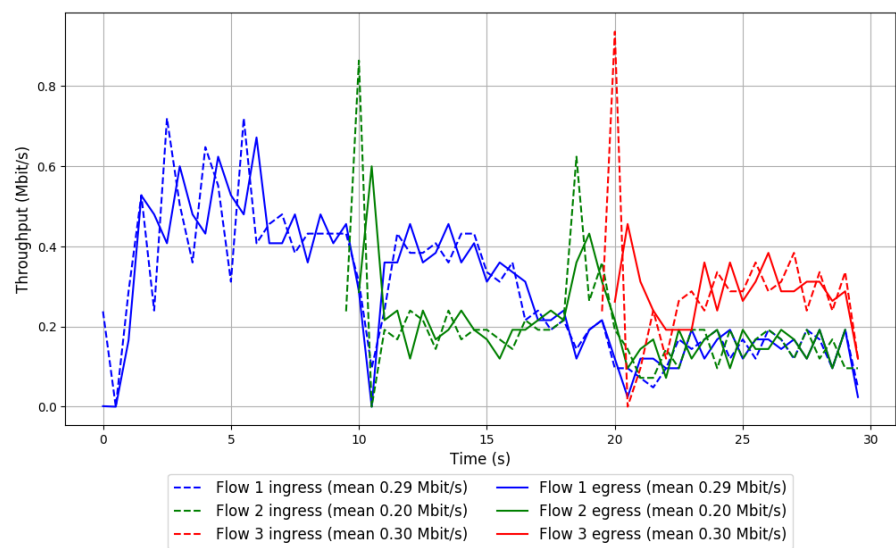


Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 11:59:51
End at: 2018-02-13 12:00:21
Local clock offset: -2.52 ms
Remote clock offset: -3.722 ms

Below is generated by plot.py at 2018-02-13 13:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 600.704 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 539.339 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 660.463 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 621.076 ms
Loss rate: 5.24%

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

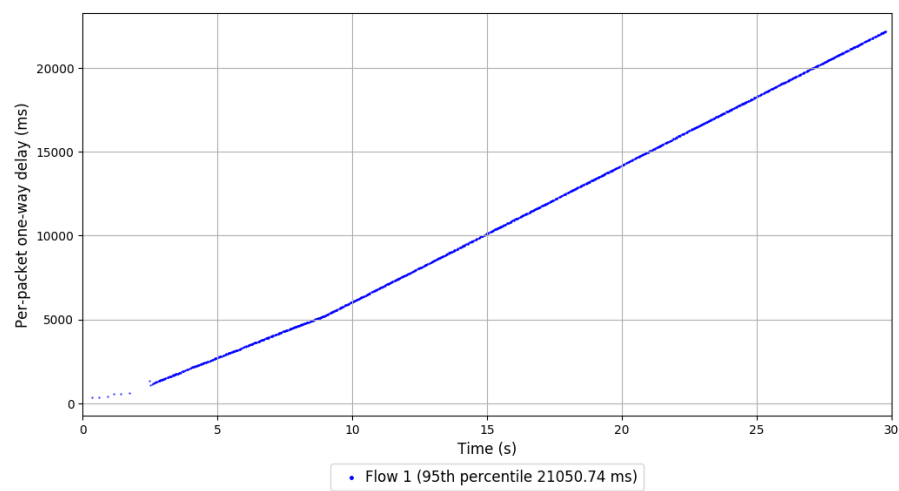
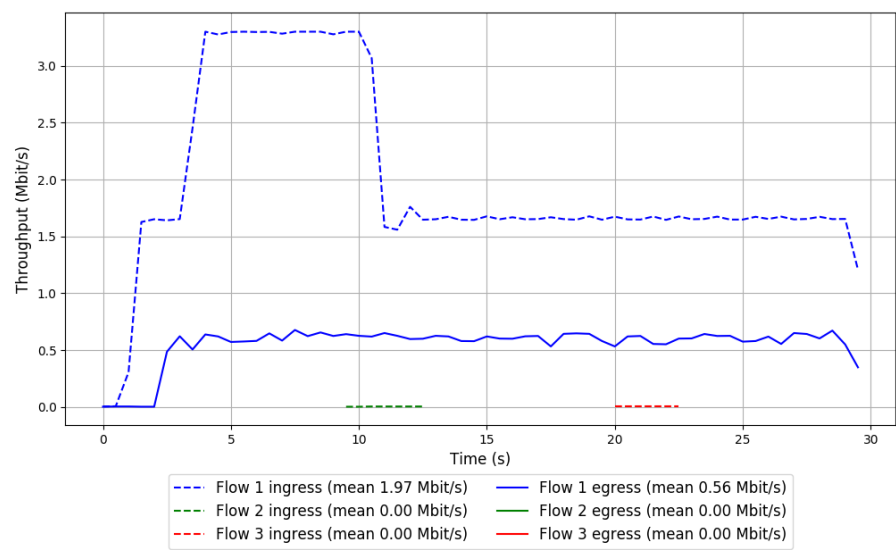


Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 11:17:18
End at: 2018-02-13 11:17:48
Local clock offset: -8.155 ms
Remote clock offset: -4.181 ms

Below is generated by plot.py at 2018-02-13 13:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 21050.742 ms
Loss rate: 71.93%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 21050.742 ms
Loss rate: 71.92%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 11:39:49

End at: 2018-02-13 11:40:19

Local clock offset: -5.972 ms

Remote clock offset: -3.5 ms

Below is generated by plot.py at 2018-02-13 13:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 20954.844 ms

Loss rate: 71.97%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 20954.844 ms

Loss rate: 71.96%

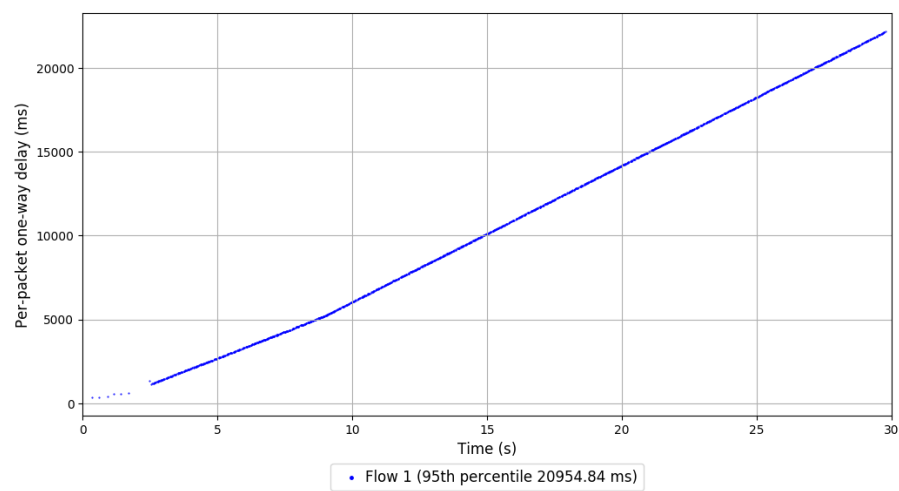
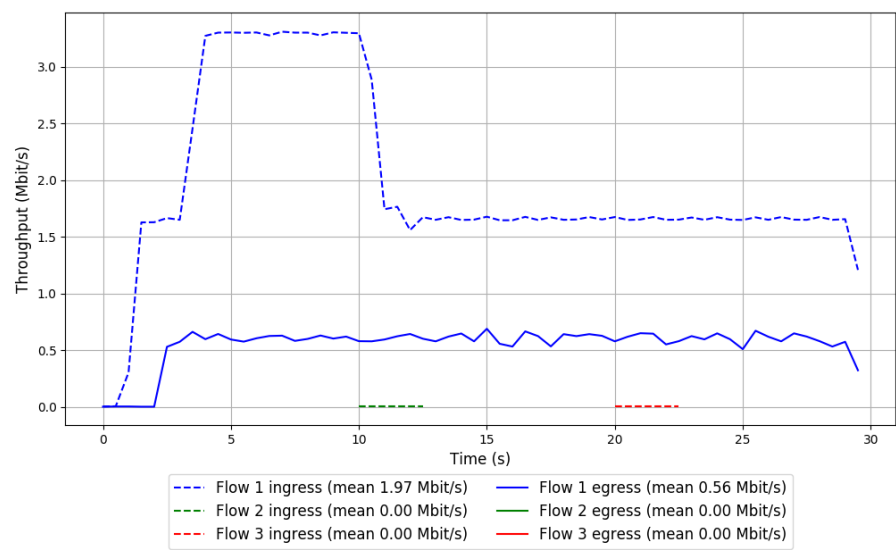
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 2: Report of Vivace-latency — Data Link

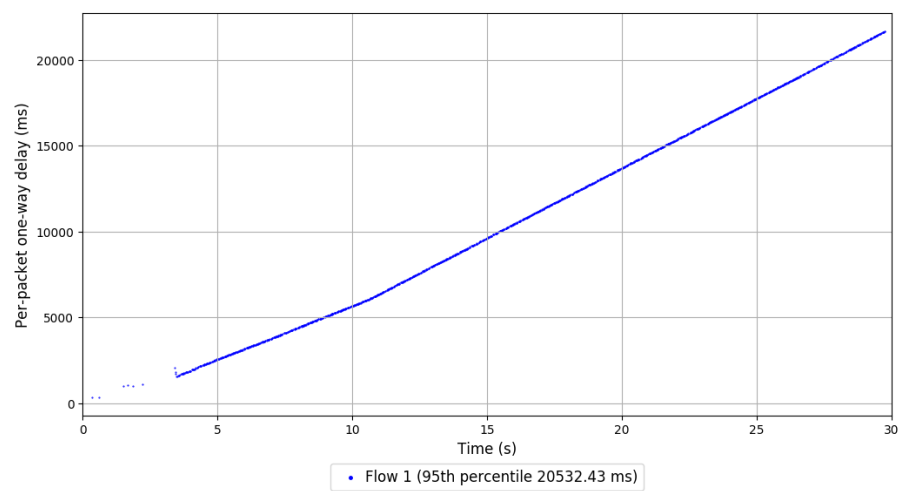
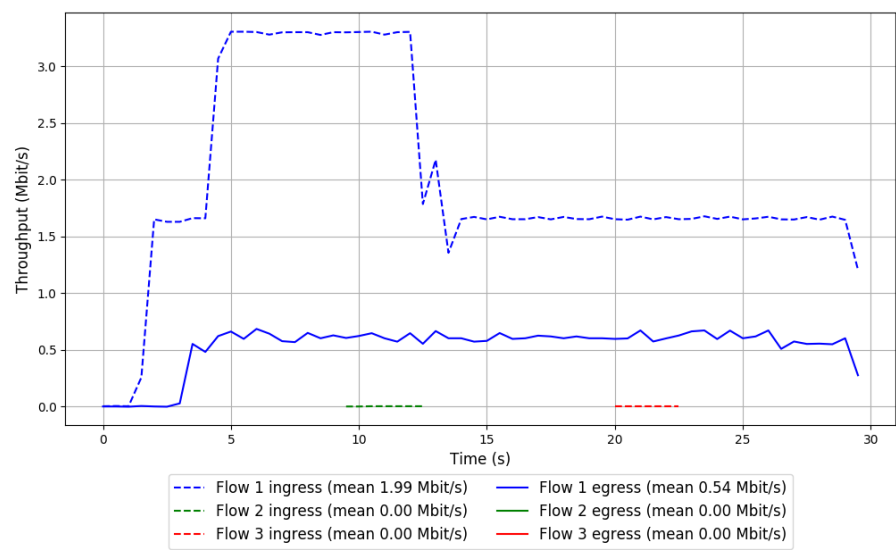


Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 12:02:21
End at: 2018-02-13 12:02:51
Local clock offset: -2.352 ms
Remote clock offset: -3.683 ms

Below is generated by plot.py at 2018-02-13 13:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 20532.430 ms
Loss rate: 73.19%
-- Flow 1:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 20532.430 ms
Loss rate: 73.18%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 3: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 11:16:03

End at: 2018-02-13 11:16:33

Local clock offset: -8.132 ms

Remote clock offset: 1.461 ms

Below is generated by plot.py at 2018-02-13 13:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21092.517 ms

Loss rate: 89.11%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21092.517 ms

Loss rate: 89.11%

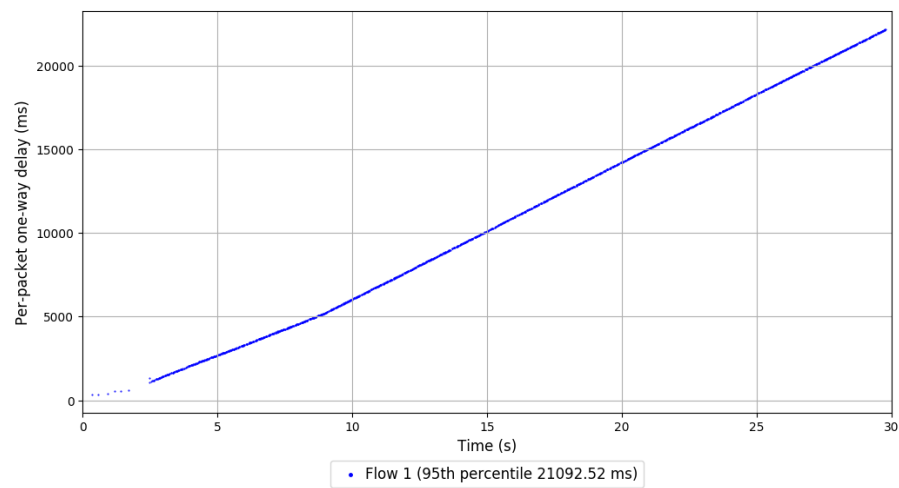
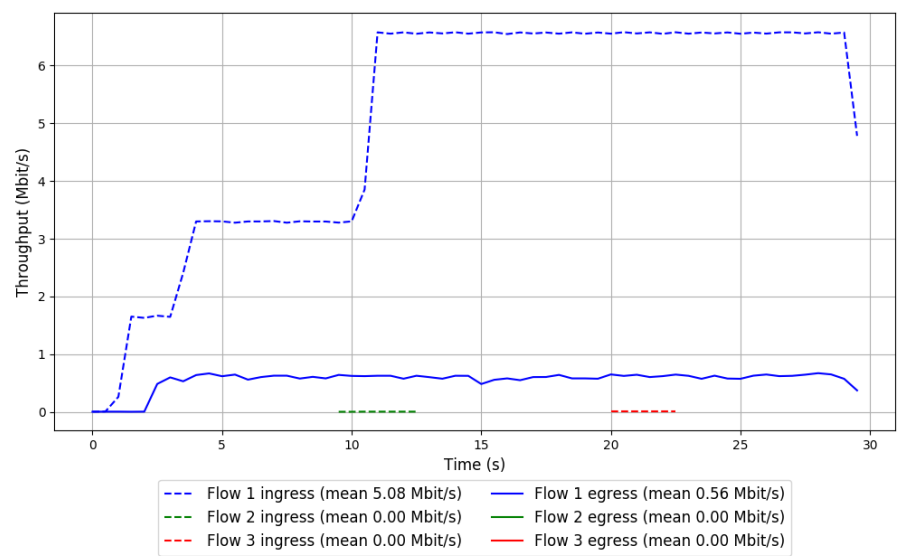
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 1: Report of Vivace-loss — Data Link

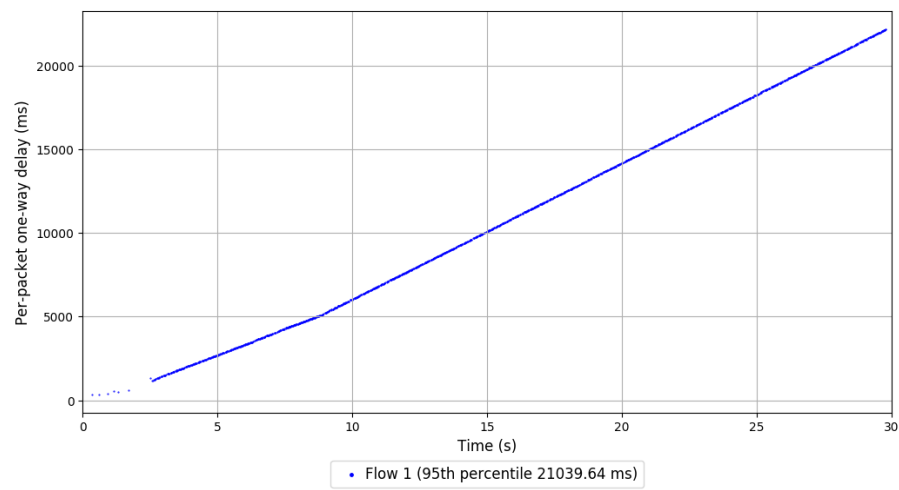
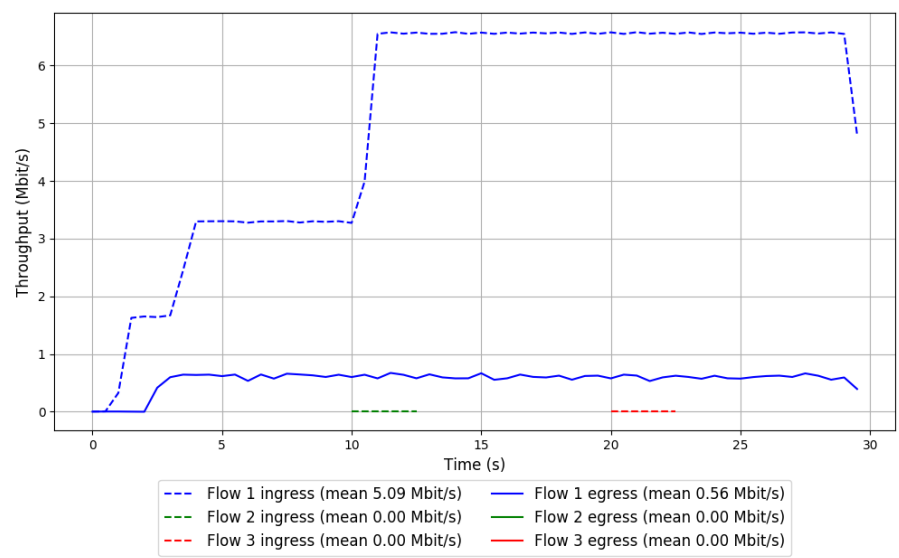


Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 11:38:34
End at: 2018-02-13 11:39:04
Local clock offset: -6.503 ms
Remote clock offset: -3.482 ms

Below is generated by plot.py at 2018-02-13 13:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 21039.643 ms
Loss rate: 89.08%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 21039.643 ms
Loss rate: 89.08%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 2: Report of Vivace-loss — Data Link

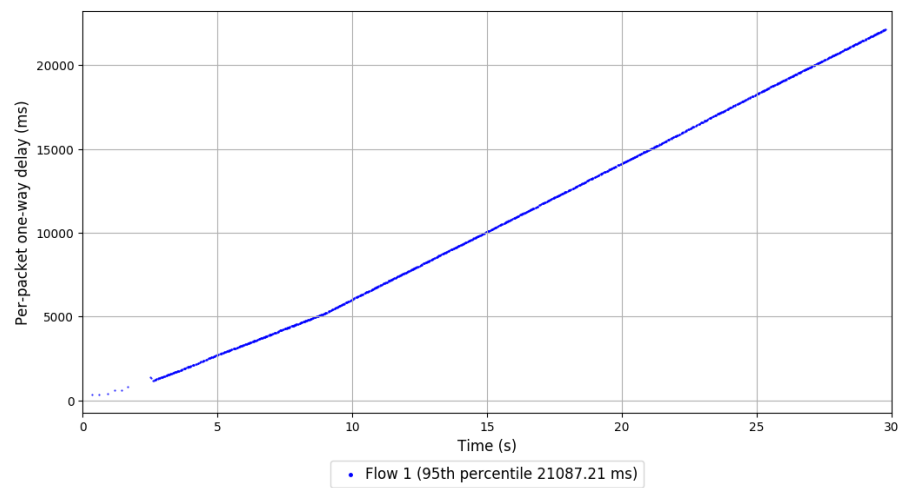
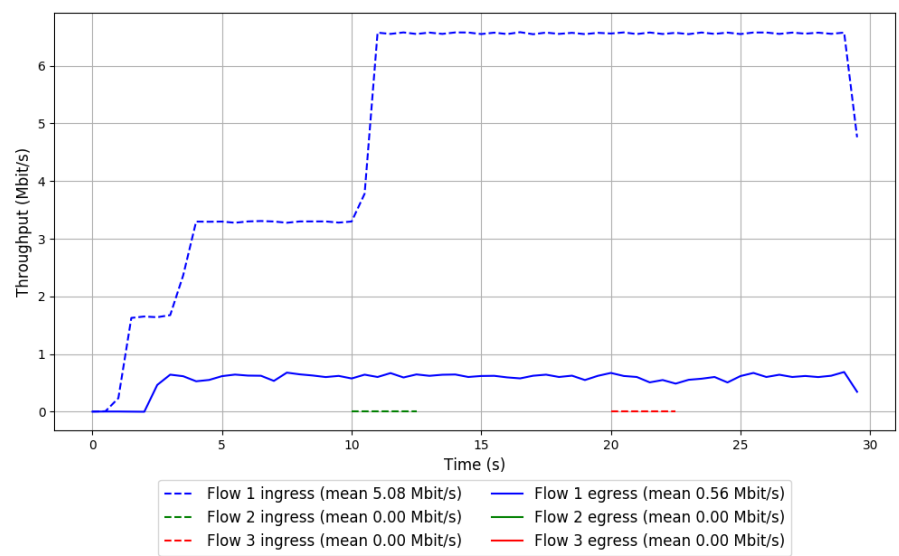


Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 12:01:05
End at: 2018-02-13 12:01:35
Local clock offset: -2.412 ms
Remote clock offset: -3.742 ms

Below is generated by plot.py at 2018-02-13 13:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 21087.213 ms
Loss rate: 89.10%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 21087.213 ms
Loss rate: 89.10%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 3: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 10:59:48

End at: 2018-02-13 11:00:18

Local clock offset: -9.096 ms

Remote clock offset: 1.258 ms

Below is generated by plot.py at 2018-02-13 13:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21049.373 ms

Loss rate: 71.63%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21049.373 ms

Loss rate: 71.61%

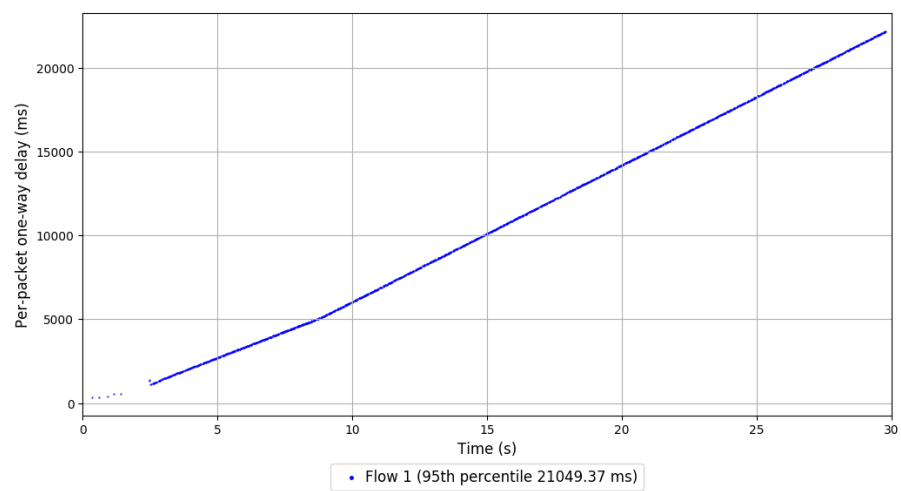
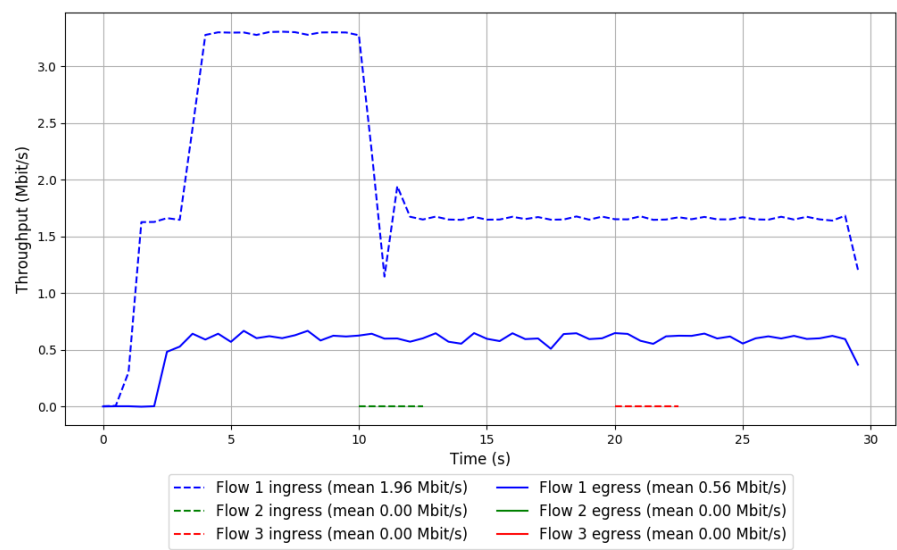
-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 1: Report of Vivace-LTE — Data Link

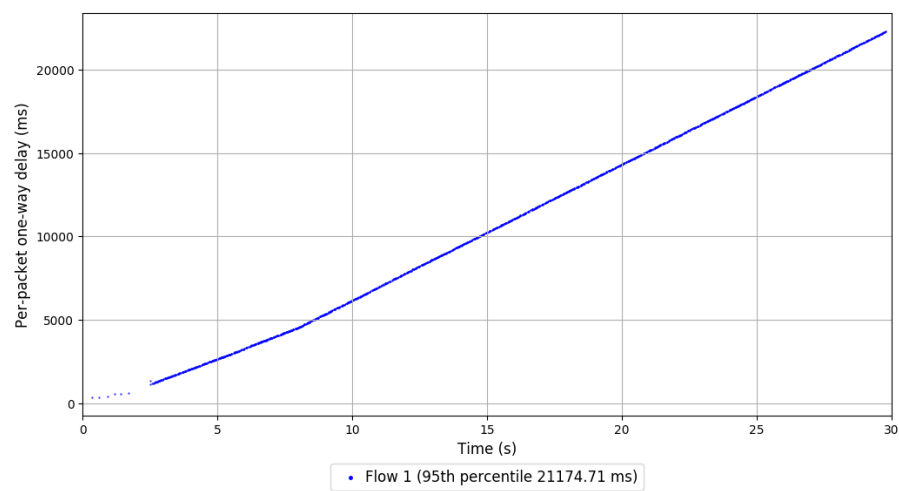
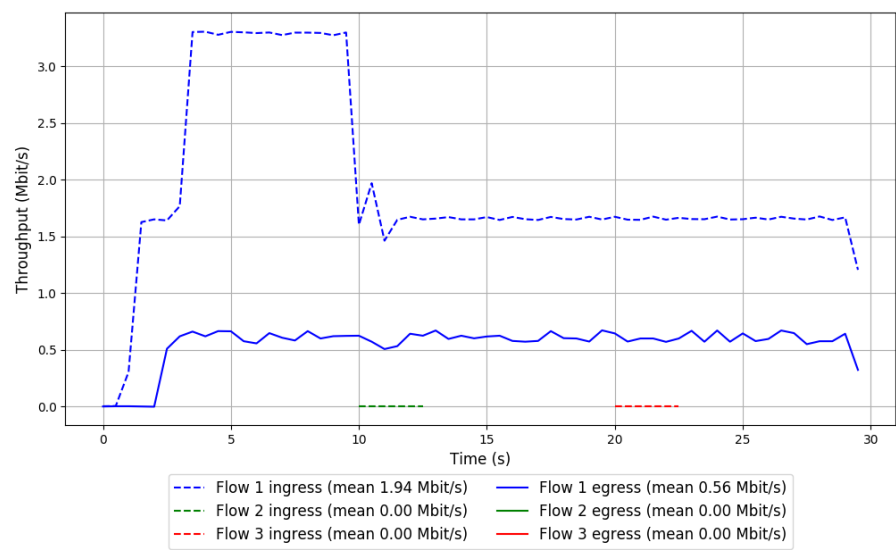


Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 11:22:18
End at: 2018-02-13 11:22:48
Local clock offset: -8.245 ms
Remote clock offset: -3.287 ms

Below is generated by plot.py at 2018-02-13 13:15:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 21174.705 ms
Loss rate: 71.30%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 21174.705 ms
Loss rate: 71.29%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 11:44:50

End at: 2018-02-13 11:45:20

Local clock offset: -4.489 ms

Remote clock offset: 1.169 ms

Below is generated by plot.py at 2018-02-13 13:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21098.108 ms

Loss rate: 71.98%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21098.108 ms

Loss rate: 71.97%

-- Flow 2:

Average throughput: 0.00 Mbit/s

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 3: Report of Vivace-LTE — Data Link

