

## Pantheon Report

Generated at 2018-02-16 20:10:31 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

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

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

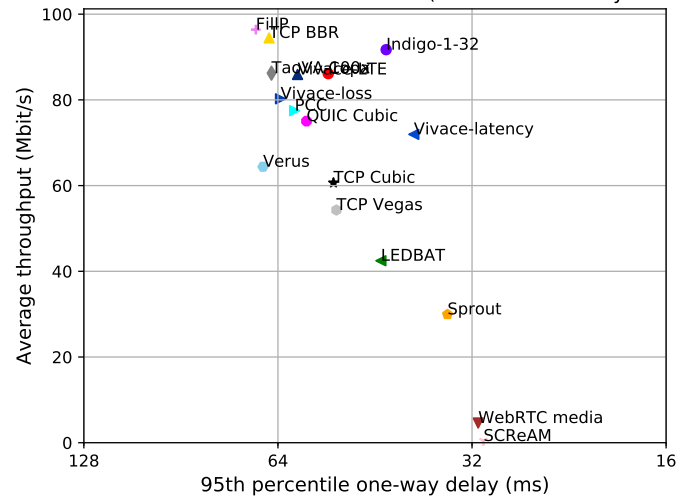
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

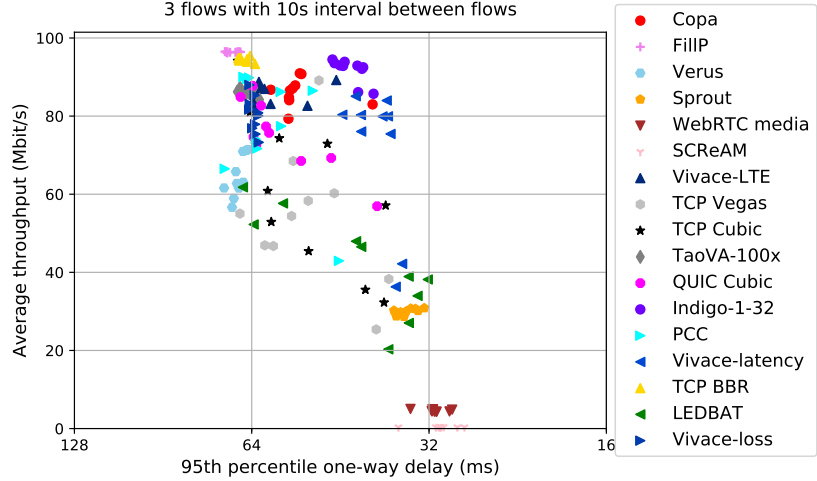
Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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 AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



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





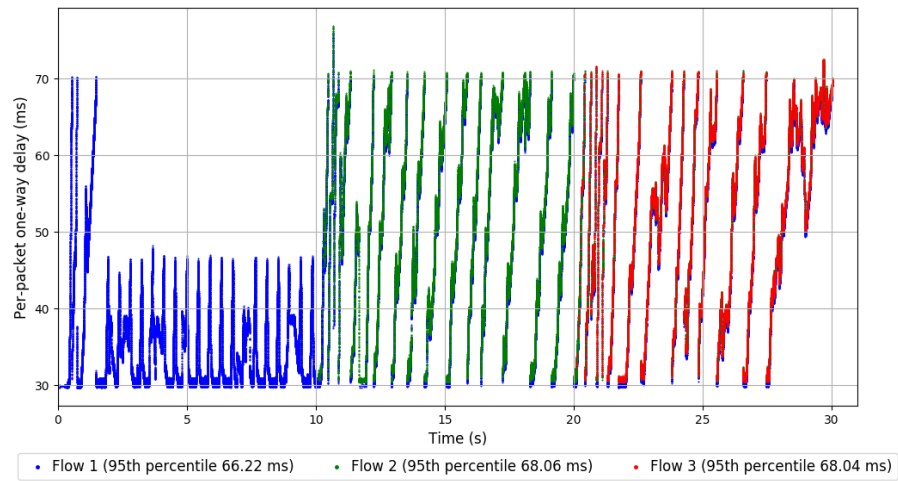
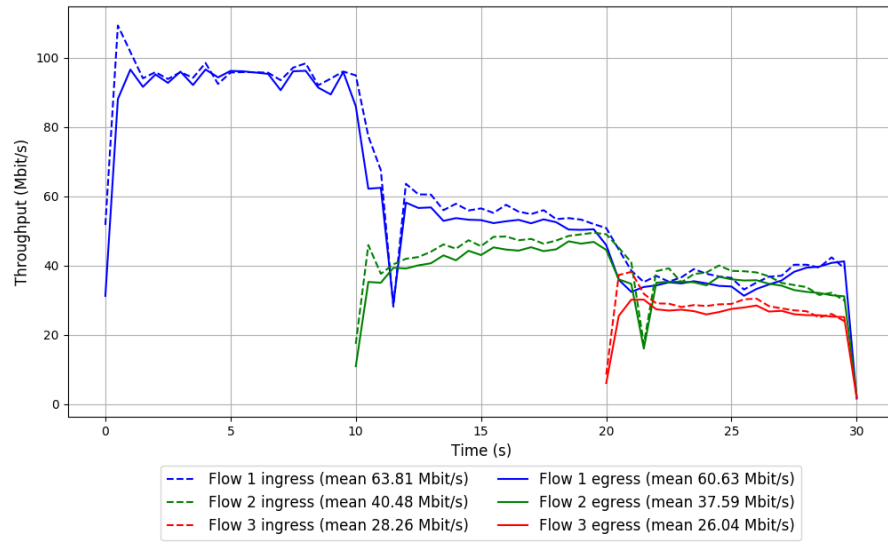
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	61.52	34.85	29.98	64.87	66.86	67.45	4.80	7.00	7.92
TCP Cubic	10	30.24	25.46	40.54	49.69	51.87	52.79	0.55	0.74	0.63
LEDBAT	10	24.32	19.38	15.82	43.04	44.96	41.33	0.35	0.37	0.54
PCC	10	59.79	20.69	11.90	59.44	60.87	57.77	4.14	5.45	4.76
QUIC Cubic	10	43.54	33.20	28.69	57.09	56.18	58.28	1.28	1.47	1.13
SCReAM	10	0.19	0.21	0.22	30.53	30.37	30.78	0.22	0.17	0.20
WebRTC media	10	2.47	1.52	0.63	30.90	31.10	31.85	0.14	0.12	0.15
Sprout	10	15.20	15.02	14.40	34.33	35.13	35.93	0.25	0.35	0.39
TaoVA-100x	10	51.27	38.71	28.39	63.23	66.17	66.64	14.54	25.16	18.31
TCP Vegas	10	24.89	26.51	35.44	47.76	53.02	48.31	0.73	0.82	1.20
Verus	10	42.52	24.20	19.65	67.83	66.65	64.42	45.89	40.97	36.22
Copa	10	73.00	22.22	2.59	50.46	50.32	49.57	64.27	72.99	71.74
FillP	10	53.66	40.72	47.36	69.16	69.31	69.64	26.76	33.77	38.05
Indigo-1-32	10	59.16	32.22	34.22	41.73	44.30	47.83	0.50	0.49	0.69
Vivace-latency	10	54.18	20.57	12.45	39.45	40.18	39.56	0.66	0.76	0.80
Vivace-loss	10	56.43	25.69	20.52	63.40	63.20	63.01	5.09	5.15	5.50
Vivace-LTE	10	61.07	27.29	20.43	58.90	60.67	61.84	2.25	2.22	2.68

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 15:07:39  
End at: 2018-02-16 15:08:09  
Local clock offset: 0.306 ms  
Remote clock offset: -4.807 ms

# Below is generated by plot.py at 2018-02-16 19:40:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.31 Mbit/s  
95th percentile per-packet one-way delay: 67.084 ms  
Loss rate: 5.71%  
-- Flow 1:  
Average throughput: 60.63 Mbit/s  
95th percentile per-packet one-way delay: 66.223 ms  
Loss rate: 4.92%  
-- Flow 2:  
Average throughput: 37.59 Mbit/s  
95th percentile per-packet one-way delay: 68.061 ms  
Loss rate: 6.95%  
-- Flow 3:  
Average throughput: 26.04 Mbit/s  
95th percentile per-packet one-way delay: 68.036 ms  
Loss rate: 7.51%

# Run 1: Report of TCP BBR — Data Link

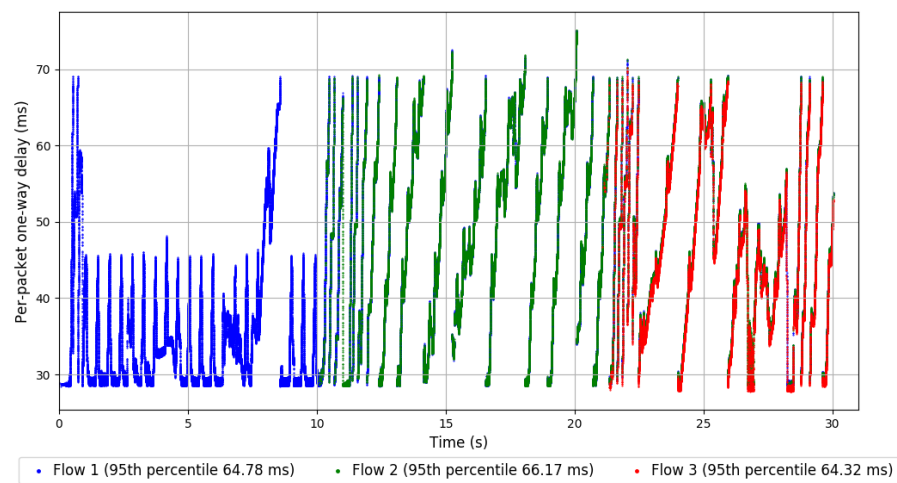
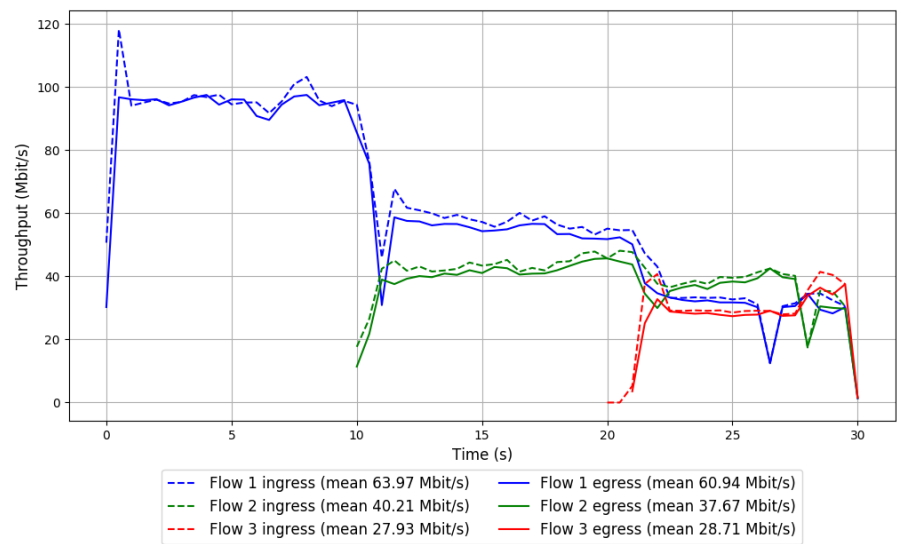


Run 2: Statistics of TCP BBR

Start at: 2018-02-16 15:33:52  
End at: 2018-02-16 15:34:22  
Local clock offset: -0.101 ms  
Remote clock offset: -7.627 ms

# Below is generated by plot.py at 2018-02-16 19:40:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.61 Mbit/s  
95th percentile per-packet one-way delay: 65.157 ms  
Loss rate: 5.35%  
-- Flow 1:  
Average throughput: 60.94 Mbit/s  
95th percentile per-packet one-way delay: 64.782 ms  
Loss rate: 4.66%  
-- Flow 2:  
Average throughput: 37.67 Mbit/s  
95th percentile per-packet one-way delay: 66.175 ms  
Loss rate: 6.21%  
-- Flow 3:  
Average throughput: 28.71 Mbit/s  
95th percentile per-packet one-way delay: 64.320 ms  
Loss rate: 7.59%

Run 2: Report of TCP BBR — Data Link

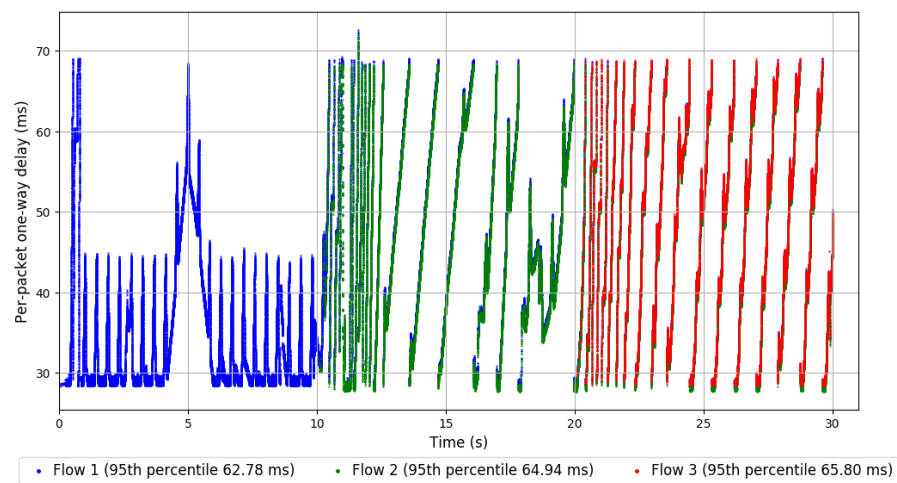
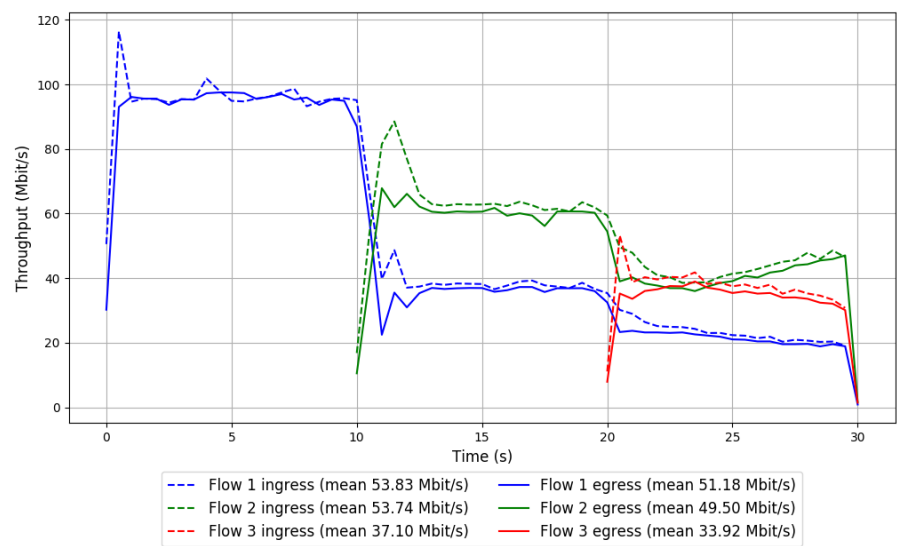


Run 3: Statistics of TCP BBR

Start at: 2018-02-16 15:59:01  
End at: 2018-02-16 15:59:31  
Local clock offset: -0.389 ms  
Remote clock offset: -6.037 ms

# Below is generated by plot.py at 2018-02-16 19:40:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.42 Mbit/s  
95th percentile per-packet one-way delay: 64.403 ms  
Loss rate: 6.32%  
-- Flow 1:  
Average throughput: 51.18 Mbit/s  
95th percentile per-packet one-way delay: 62.782 ms  
Loss rate: 4.85%  
-- Flow 2:  
Average throughput: 49.50 Mbit/s  
95th percentile per-packet one-way delay: 64.936 ms  
Loss rate: 7.82%  
-- Flow 3:  
Average throughput: 33.92 Mbit/s  
95th percentile per-packet one-way delay: 65.797 ms  
Loss rate: 8.38%

Run 3: Report of TCP BBR — Data Link



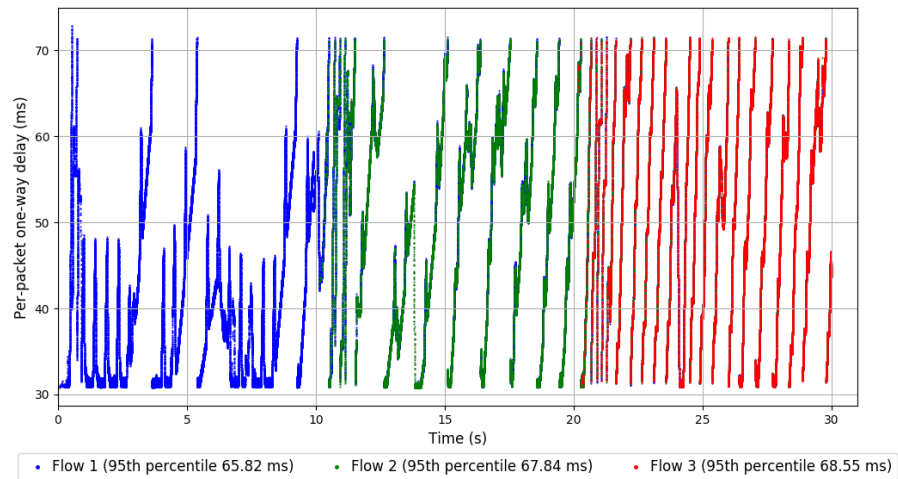
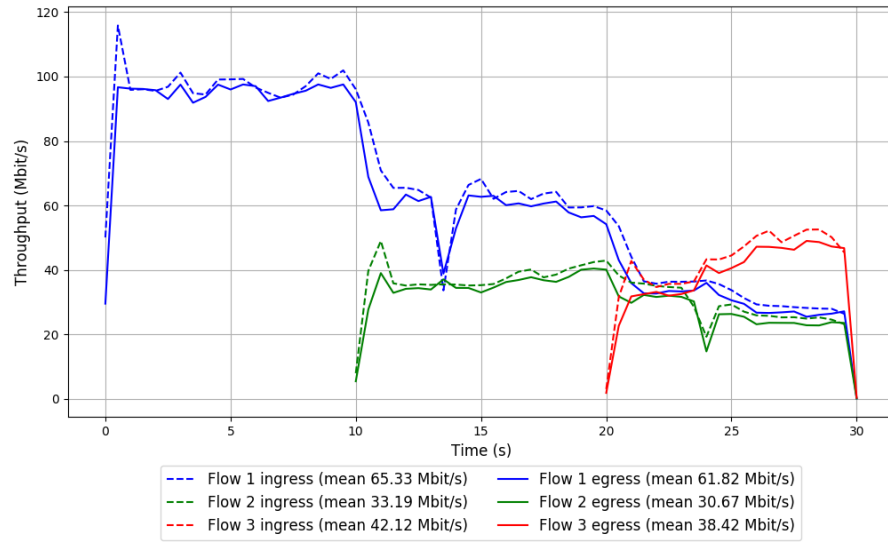
Run 4: Statistics of TCP BBR

Start at: 2018-02-16 16:25:02  
End at: 2018-02-16 16:25:32  
Local clock offset: -0.465 ms  
Remote clock offset: -3.512 ms

# Below is generated by plot.py at 2018-02-16 19:40:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.95 Mbit/s  
95th percentile per-packet one-way delay: 66.956 ms  
Loss rate: 6.33%  
-- Flow 1:  
Average throughput: 61.82 Mbit/s  
95th percentile per-packet one-way delay: 65.818 ms  
Loss rate: 5.34%  
-- Flow 2:  
Average throughput: 30.67 Mbit/s  
95th percentile per-packet one-way delay: 67.842 ms  
Loss rate: 7.63%  
-- Flow 3:  
Average throughput: 38.42 Mbit/s  
95th percentile per-packet one-way delay: 68.551 ms  
Loss rate: 8.90%



#### Run 4: Report of TCP BBR — Data Link

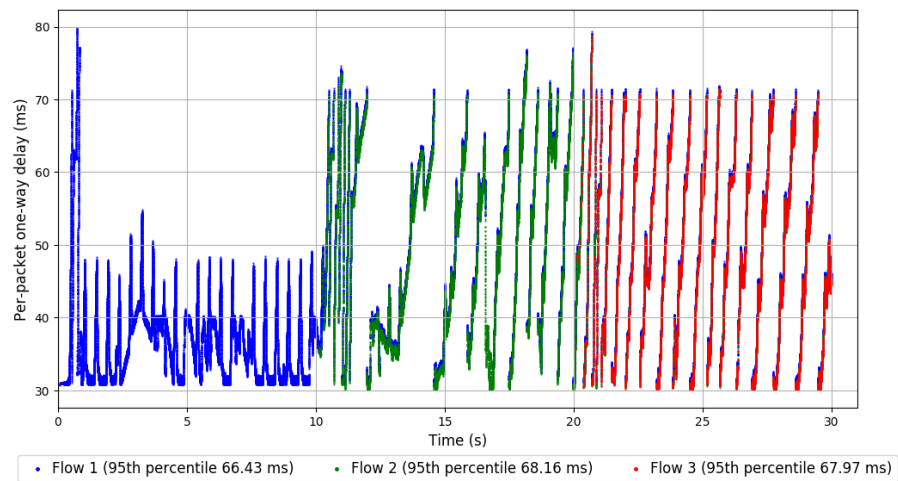
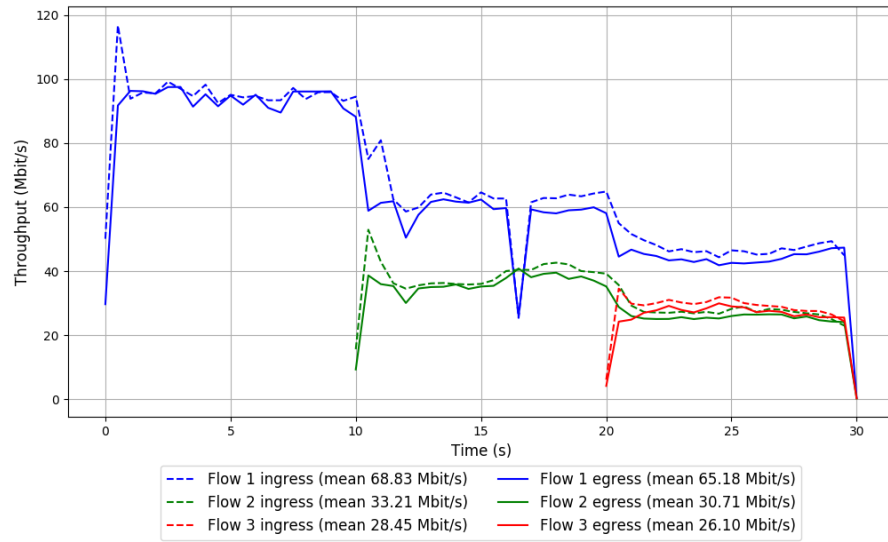


Run 5: Statistics of TCP BBR

Start at: 2018-02-16 16:50:51  
End at: 2018-02-16 16:51:21  
Local clock offset: 0.348 ms  
Remote clock offset: -4.149 ms

# Below is generated by plot.py at 2018-02-16 19:40:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.28 Mbit/s  
95th percentile per-packet one-way delay: 67.154 ms  
Loss rate: 6.03%  
-- Flow 1:  
Average throughput: 65.18 Mbit/s  
95th percentile per-packet one-way delay: 66.428 ms  
Loss rate: 5.26%  
-- Flow 2:  
Average throughput: 30.71 Mbit/s  
95th percentile per-packet one-way delay: 68.158 ms  
Loss rate: 7.49%  
-- Flow 3:  
Average throughput: 26.10 Mbit/s  
95th percentile per-packet one-way delay: 67.969 ms  
Loss rate: 8.18%

# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 17:18:53

End at: 2018-02-16 17:19:23

Local clock offset: 0.521 ms

Remote clock offset: -5.9 ms

# Below is generated by plot.py at 2018-02-16 19:40:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 67.447 ms

Loss rate: 5.72%

-- Flow 1:

Average throughput: 65.66 Mbit/s

95th percentile per-packet one-way delay: 66.965 ms

Loss rate: 5.07%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 67.744 ms

Loss rate: 7.01%

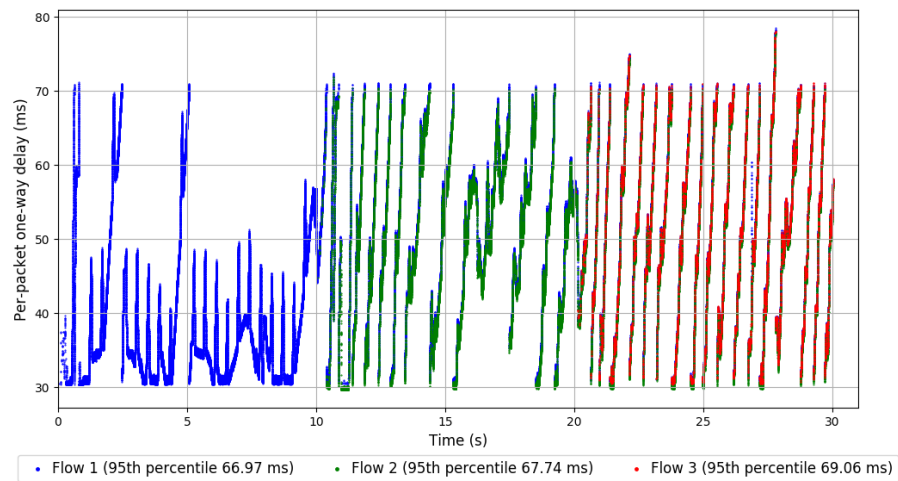
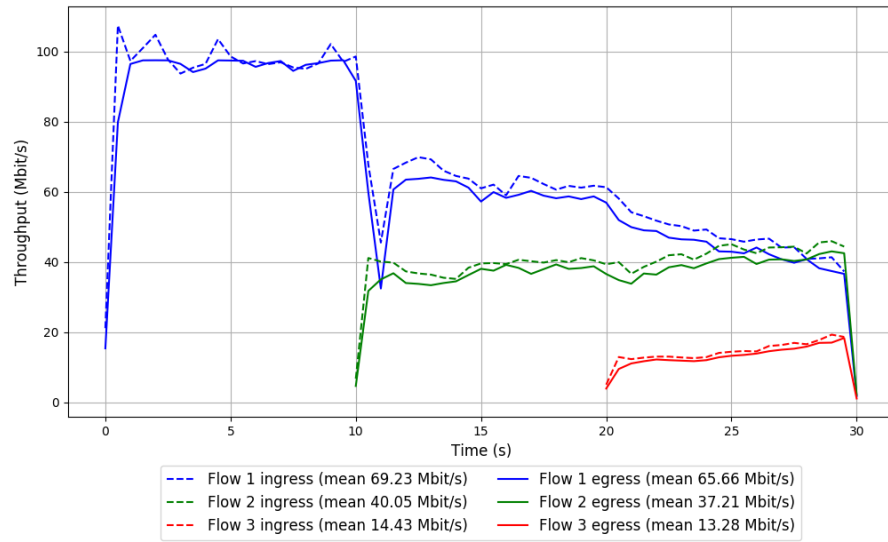
-- Flow 3:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 69.065 ms

Loss rate: 7.95%

## Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-16 17:47:28

End at: 2018-02-16 17:47:58

Local clock offset: 0.456 ms

Remote clock offset: -5.76 ms

# Below is generated by plot.py at 2018-02-16 19:40:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.93 Mbit/s

95th percentile per-packet one-way delay: 65.206 ms

Loss rate: 5.90%

-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 5.47%

-- Flow 2:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 65.737 ms

Loss rate: 6.41%

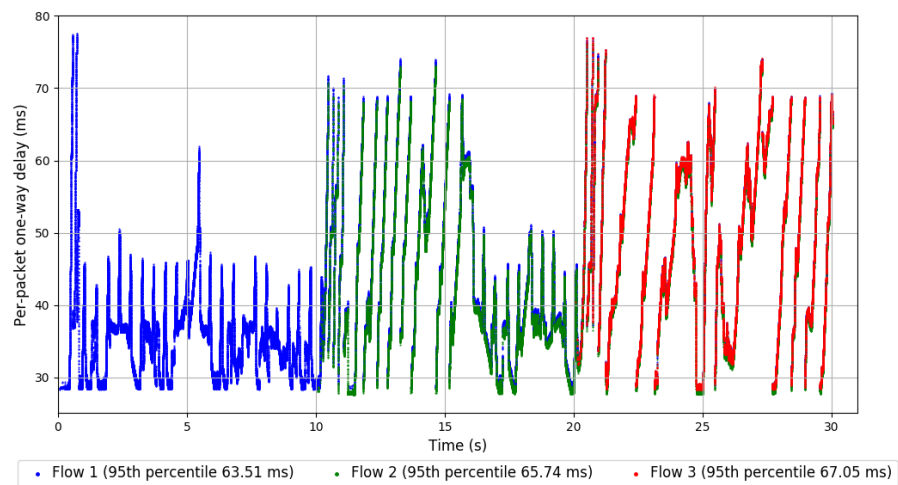
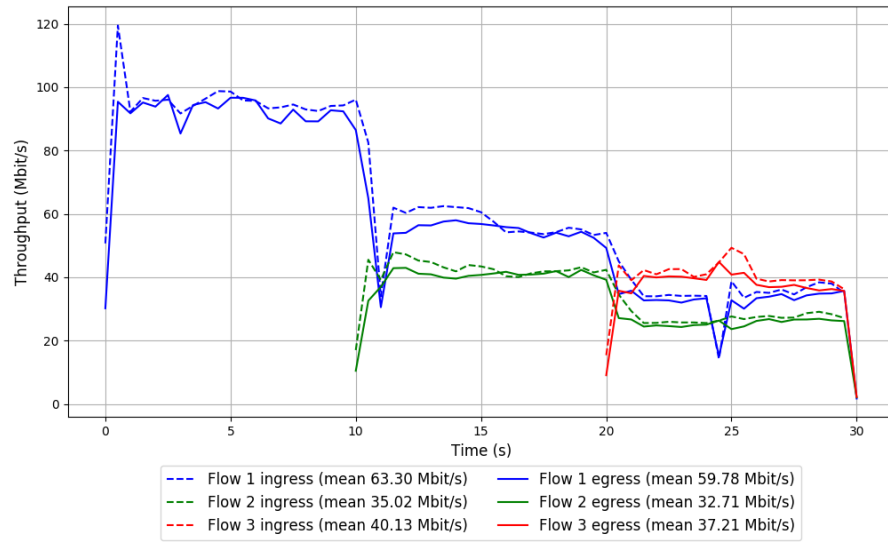
-- Flow 3:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 67.054 ms

Loss rate: 7.06%

## Run 7: Report of TCP BBR — Data Link



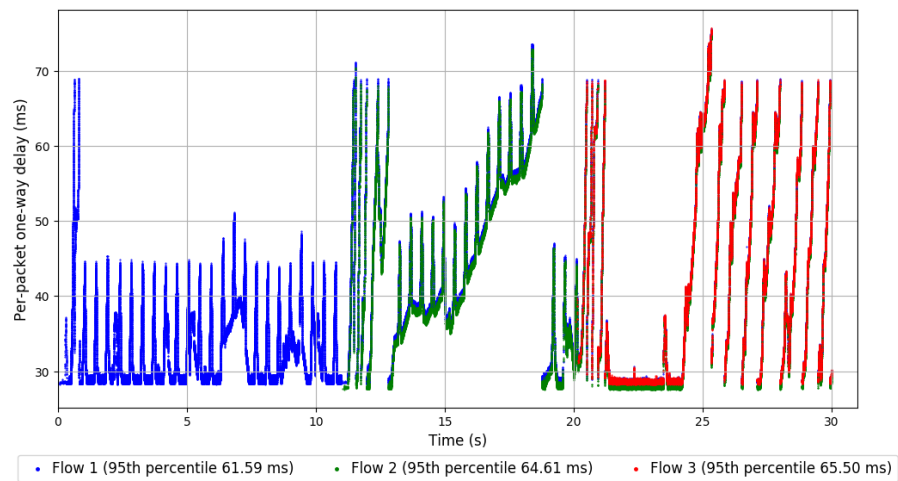
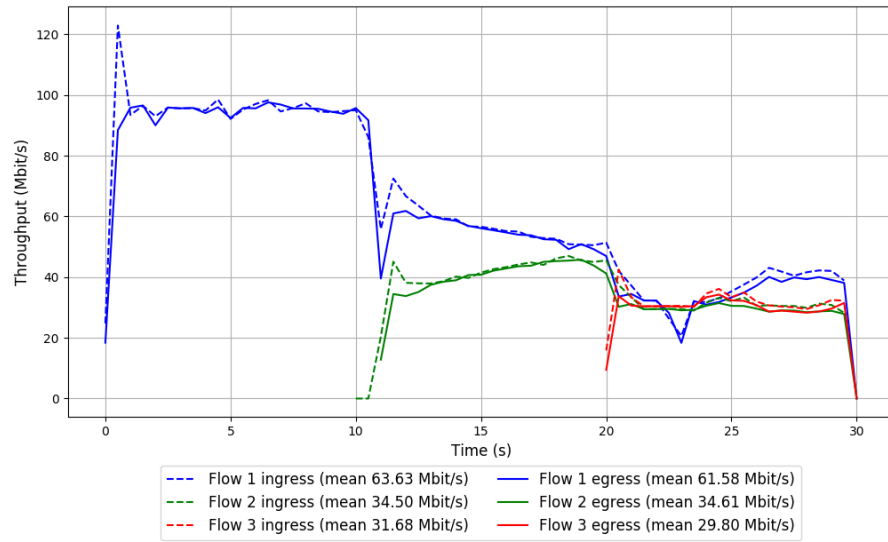
Run 8: Statistics of TCP BBR

Start at: 2018-02-16 18:14:16  
End at: 2018-02-16 18:14:46  
Local clock offset: 0.426 ms  
Remote clock offset: -4.262 ms

# Below is generated by plot.py at 2018-02-16 19:40:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.36 Mbit/s  
95th percentile per-packet one-way delay: 63.198 ms  
Loss rate: 3.87%  
-- Flow 1:  
Average throughput: 61.58 Mbit/s  
95th percentile per-packet one-way delay: 61.594 ms  
Loss rate: 3.21%  
-- Flow 2:  
Average throughput: 34.61 Mbit/s  
95th percentile per-packet one-way delay: 64.614 ms  
Loss rate: 4.73%  
-- Flow 3:  
Average throughput: 29.80 Mbit/s  
95th percentile per-packet one-way delay: 65.504 ms  
Loss rate: 5.98%



# Run 8: Report of TCP BBR — Data Link

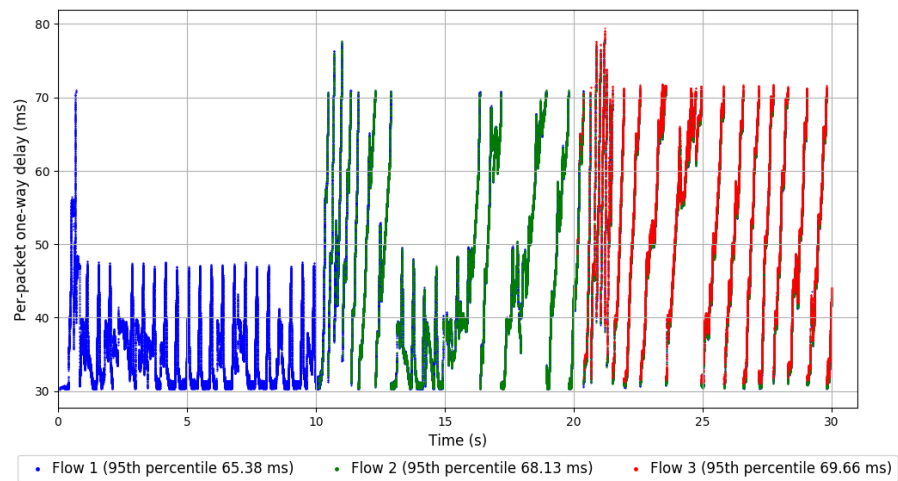
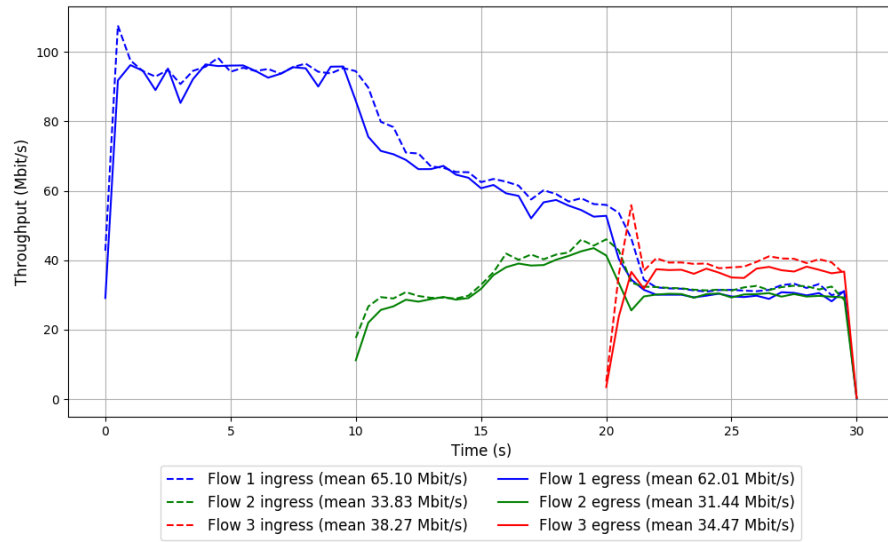


Run 9: Statistics of TCP BBR

Start at: 2018-02-16 18:39:36  
End at: 2018-02-16 18:40:06  
Local clock offset: -0.074 ms  
Remote clock offset: -2.799 ms

# Below is generated by plot.py at 2018-02-16 19:41:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.38 Mbit/s  
95th percentile per-packet one-way delay: 67.223 ms  
Loss rate: 5.88%  
-- Flow 1:  
Average throughput: 62.01 Mbit/s  
95th percentile per-packet one-way delay: 65.377 ms  
Loss rate: 4.70%  
-- Flow 2:  
Average throughput: 31.44 Mbit/s  
95th percentile per-packet one-way delay: 68.130 ms  
Loss rate: 7.01%  
-- Flow 3:  
Average throughput: 34.47 Mbit/s  
95th percentile per-packet one-way delay: 69.656 ms  
Loss rate: 9.93%

# Run 9: Report of TCP BBR — Data Link

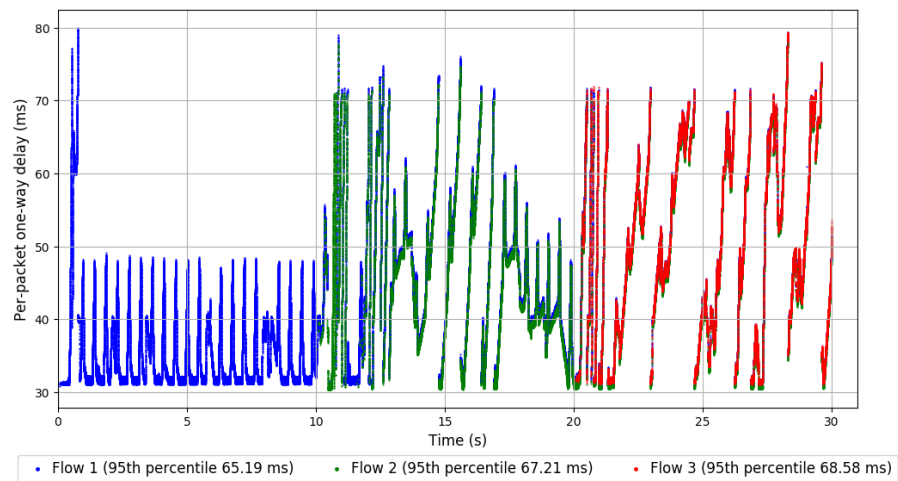
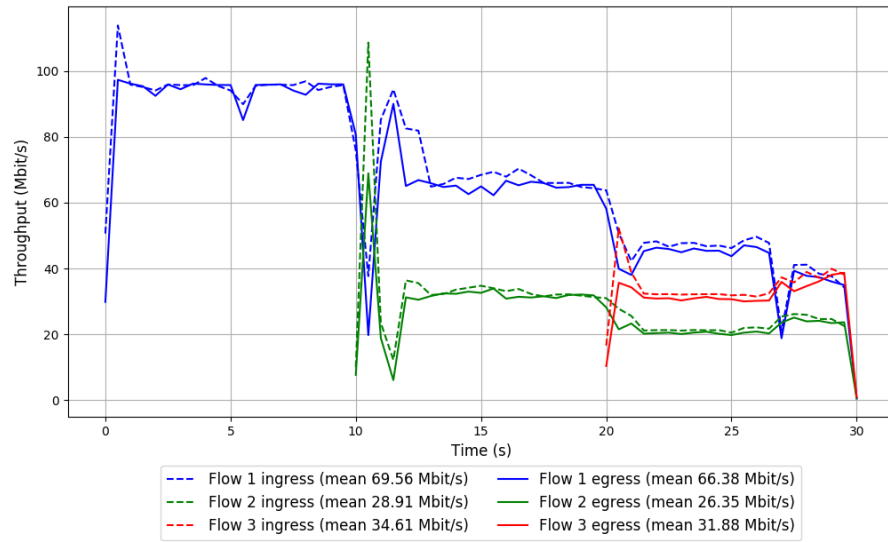


Run 10: Statistics of TCP BBR

Start at: 2018-02-16 19:04:36  
End at: 2018-02-16 19:05:06  
Local clock offset: 0.422 ms  
Remote clock offset: -6.163 ms

# Below is generated by plot.py at 2018-02-16 19:41:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.51 Mbit/s  
95th percentile per-packet one-way delay: 66.699 ms  
Loss rate: 5.69%  
-- Flow 1:  
Average throughput: 66.38 Mbit/s  
95th percentile per-packet one-way delay: 65.192 ms  
Loss rate: 4.52%  
-- Flow 2:  
Average throughput: 26.35 Mbit/s  
95th percentile per-packet one-way delay: 67.209 ms  
Loss rate: 8.76%  
-- Flow 3:  
Average throughput: 31.88 Mbit/s  
95th percentile per-packet one-way delay: 68.580 ms  
Loss rate: 7.69%

# Run 10: Report of TCP BBR — Data Link

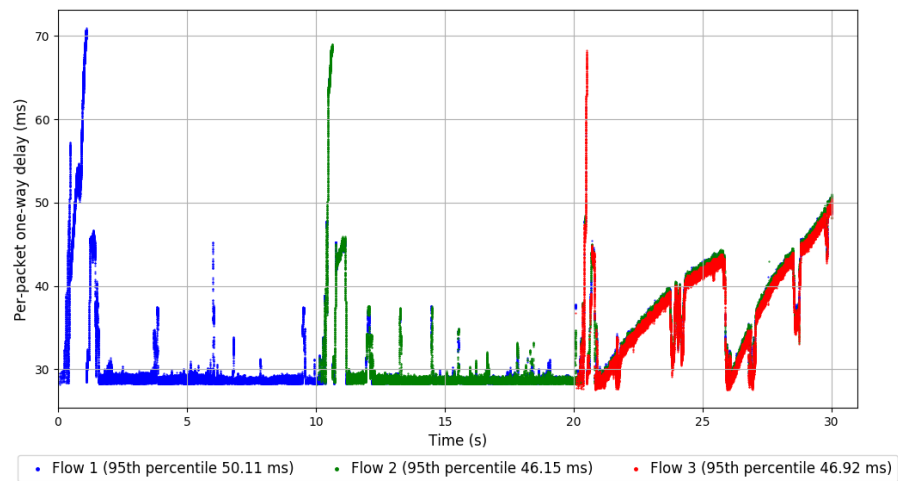
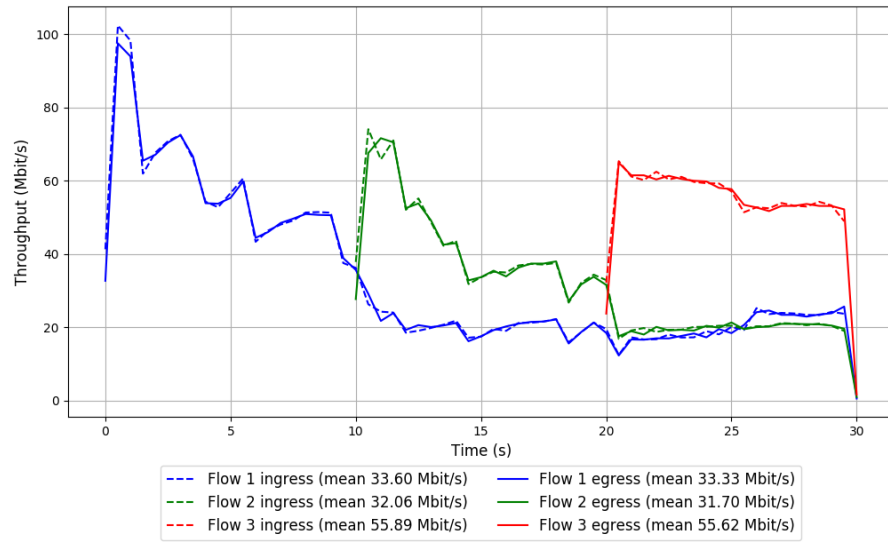


Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 14:45:14  
End at: 2018-02-16 14:45:44  
Local clock offset: 0.257 ms  
Remote clock offset: -6.818 ms

# Below is generated by plot.py at 2018-02-16 19:41:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.92 Mbit/s  
95th percentile per-packet one-way delay: 47.605 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 33.33 Mbit/s  
95th percentile per-packet one-way delay: 50.109 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 31.70 Mbit/s  
95th percentile per-packet one-way delay: 46.154 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 55.62 Mbit/s  
95th percentile per-packet one-way delay: 46.917 ms  
Loss rate: 0.37%

# Run 1: Report of TCP Cubic — Data Link



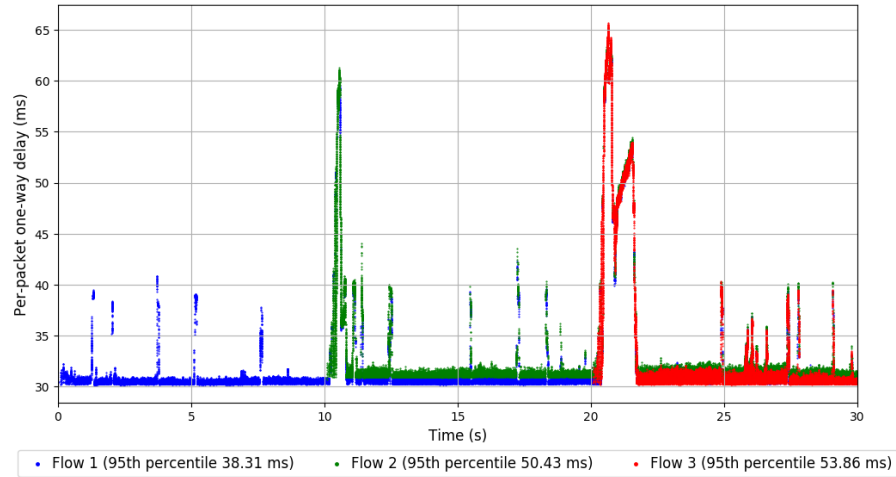
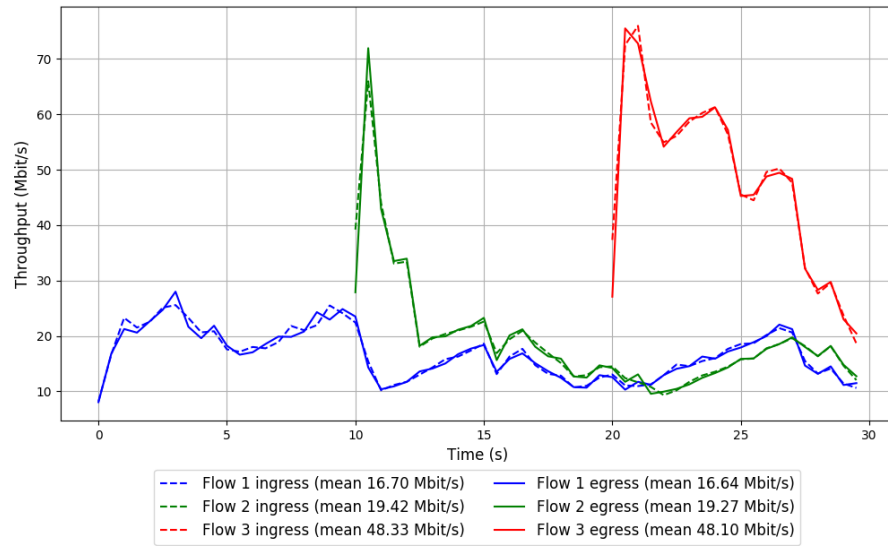
Run 2: Statistics of TCP Cubic

Start at: 2018-02-16 15:12:04  
End at: 2018-02-16 15:12:34  
Local clock offset: 0.226 ms  
Remote clock offset: -4.671 ms

# Below is generated by plot.py at 2018-02-16 19:41:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.44 Mbit/s  
95th percentile per-packet one-way delay: 51.239 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 16.64 Mbit/s  
95th percentile per-packet one-way delay: 38.308 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 19.27 Mbit/s  
95th percentile per-packet one-way delay: 50.432 ms  
Loss rate: 0.73%  
-- Flow 3:  
Average throughput: 48.10 Mbit/s  
95th percentile per-packet one-way delay: 53.858 ms  
Loss rate: 0.46%



## Run 2: Report of TCP Cubic — Data Link

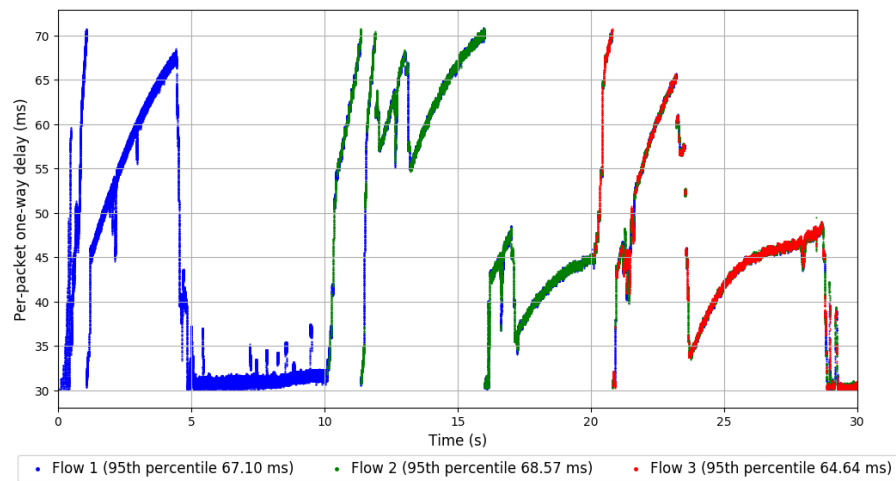
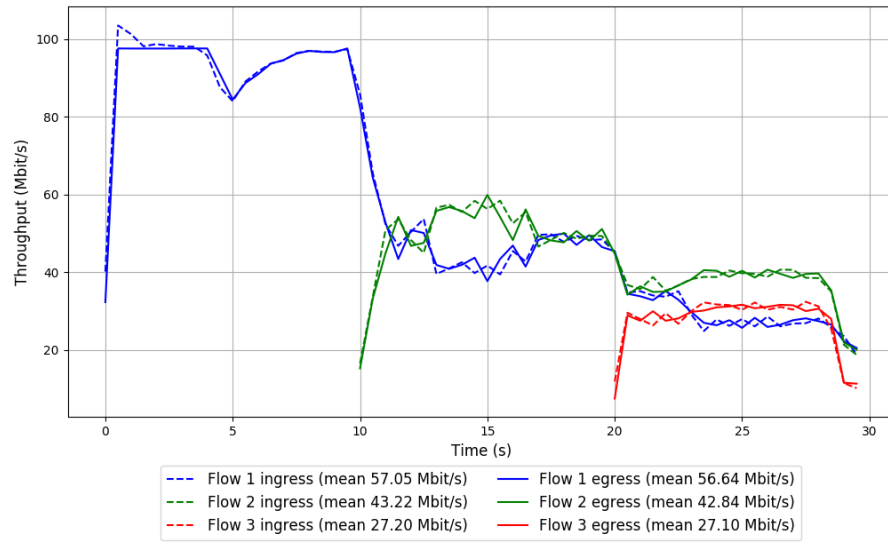


Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 15:38:11  
End at: 2018-02-16 15:38:41  
Local clock offset: -0.125 ms  
Remote clock offset: -5.072 ms

# Below is generated by plot.py at 2018-02-16 19:41:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.15 Mbit/s  
95th percentile per-packet one-way delay: 67.594 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 56.64 Mbit/s  
95th percentile per-packet one-way delay: 67.103 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 42.84 Mbit/s  
95th percentile per-packet one-way delay: 68.573 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 27.10 Mbit/s  
95th percentile per-packet one-way delay: 64.640 ms  
Loss rate: 0.49%

### Run 3: Report of TCP Cubic — Data Link

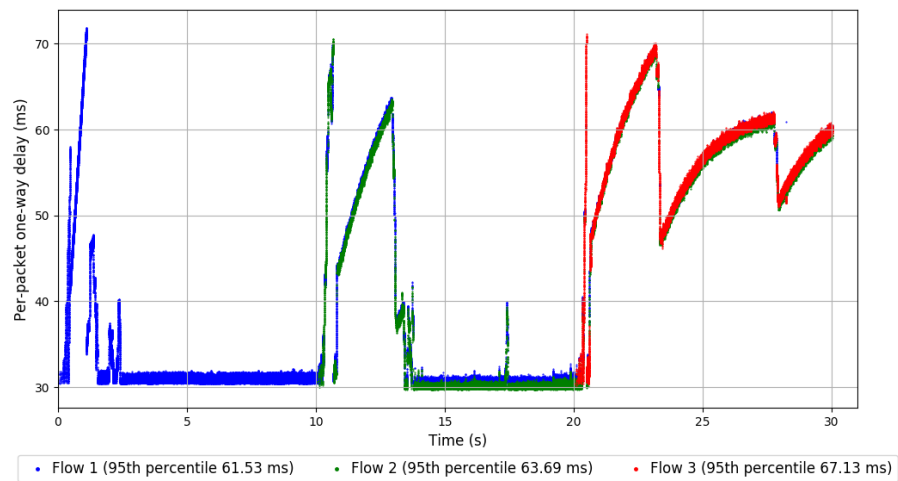
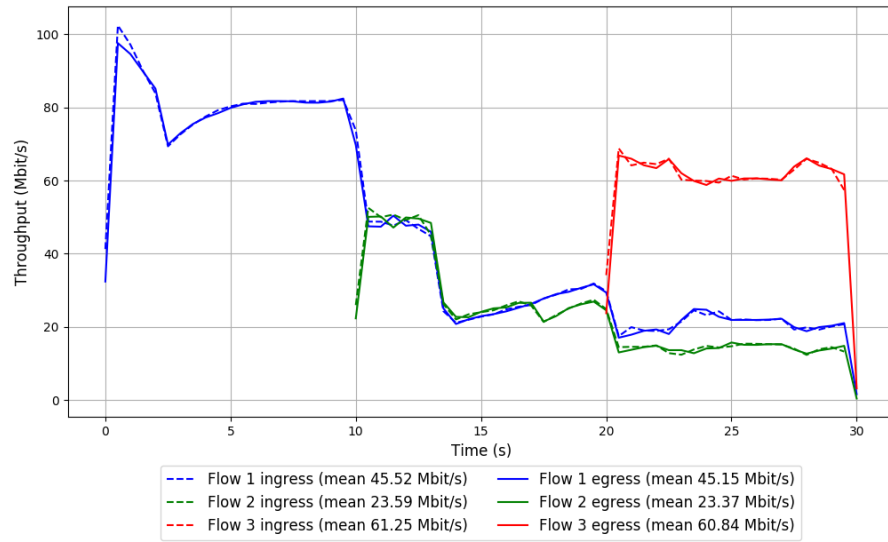


Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 16:03:09  
End at: 2018-02-16 16:03:39  
Local clock offset: -0.316 ms  
Remote clock offset: -3.728 ms

# Below is generated by plot.py at 2018-02-16 19:41:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.96 Mbit/s  
95th percentile per-packet one-way delay: 64.451 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 45.15 Mbit/s  
95th percentile per-packet one-way delay: 61.532 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 23.37 Mbit/s  
95th percentile per-packet one-way delay: 63.686 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 60.84 Mbit/s  
95th percentile per-packet one-way delay: 67.133 ms  
Loss rate: 0.37%

# Run 4: Report of TCP Cubic — Data Link

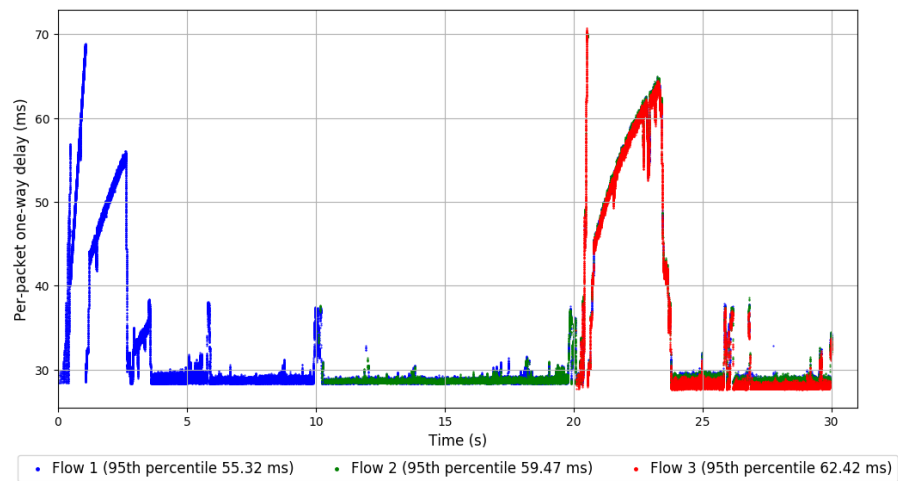
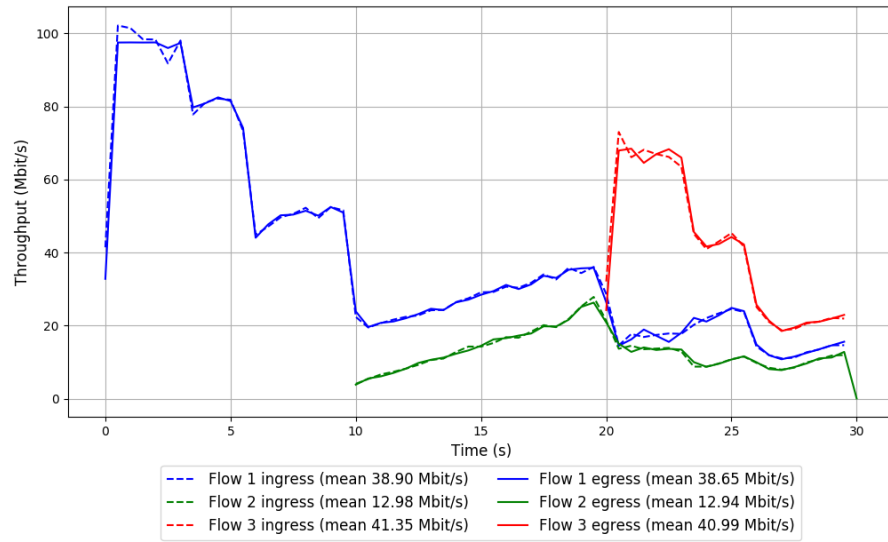


Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 16:29:25  
End at: 2018-02-16 16:29:55  
Local clock offset: -0.523 ms  
Remote clock offset: -6.109 ms

# Below is generated by plot.py at 2018-02-16 19:41:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.85 Mbit/s  
95th percentile per-packet one-way delay: 60.128 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 38.65 Mbit/s  
95th percentile per-packet one-way delay: 55.323 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 12.94 Mbit/s  
95th percentile per-packet one-way delay: 59.466 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 40.99 Mbit/s  
95th percentile per-packet one-way delay: 62.422 ms  
Loss rate: 0.90%

## Run 5: Report of TCP Cubic — Data Link



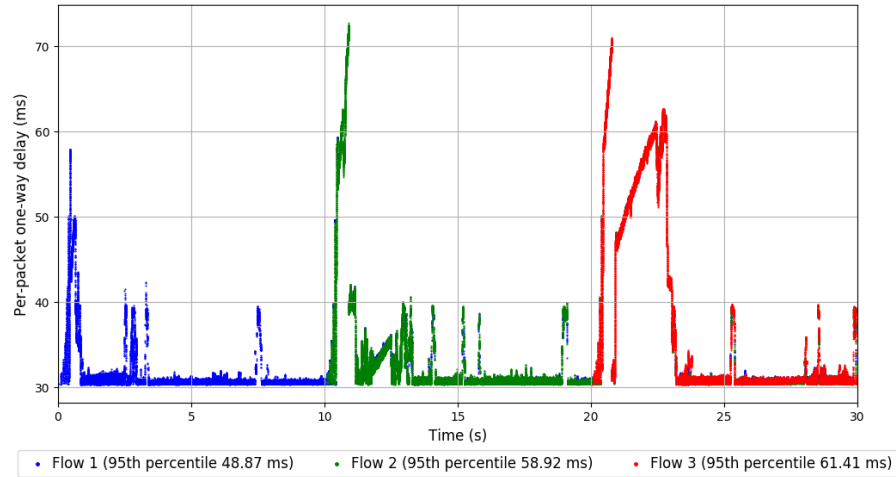
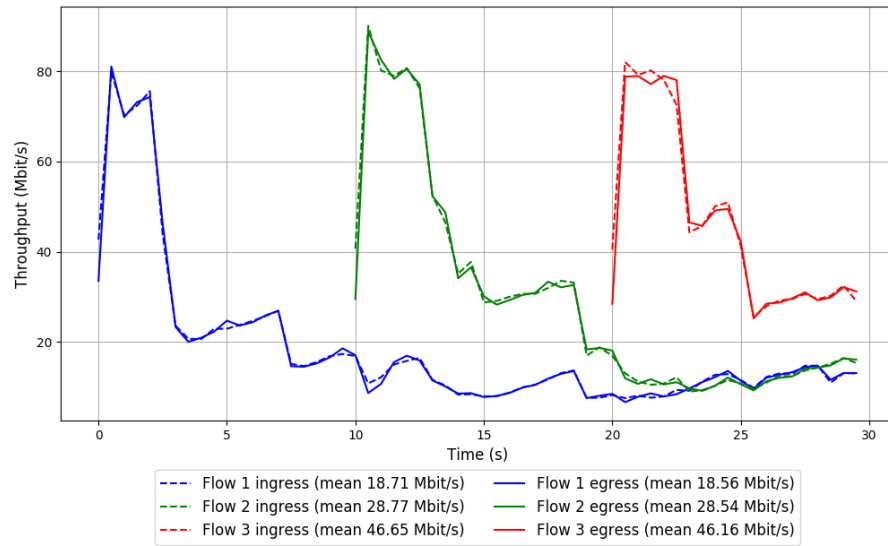
Run 6: Statistics of TCP Cubic

Start at: 2018-02-16 16:55:02  
End at: 2018-02-16 16:55:32  
Local clock offset: 0.348 ms  
Remote clock offset: -4.059 ms

# Below is generated by plot.py at 2018-02-16 19:41:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.91 Mbit/s  
95th percentile per-packet one-way delay: 59.290 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 18.56 Mbit/s  
95th percentile per-packet one-way delay: 48.868 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 28.54 Mbit/s  
95th percentile per-packet one-way delay: 58.919 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 46.16 Mbit/s  
95th percentile per-packet one-way delay: 61.411 ms  
Loss rate: 1.06%



## Run 6: Report of TCP Cubic — Data Link

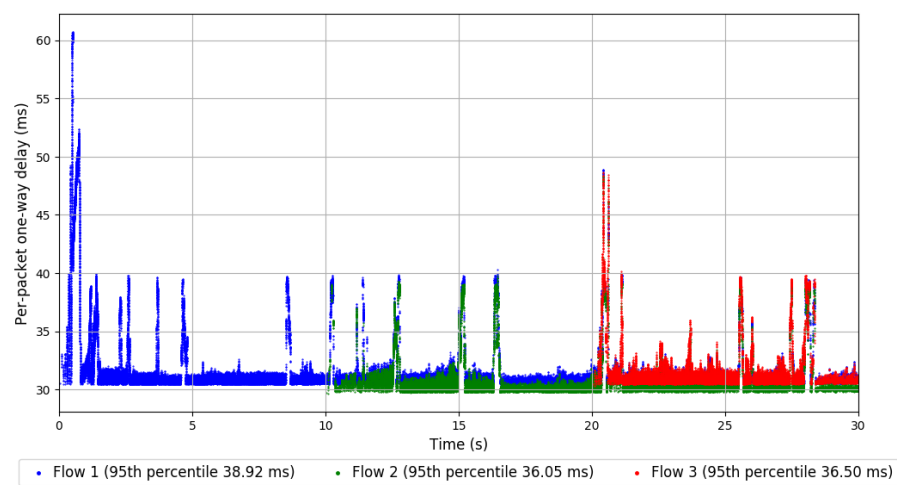
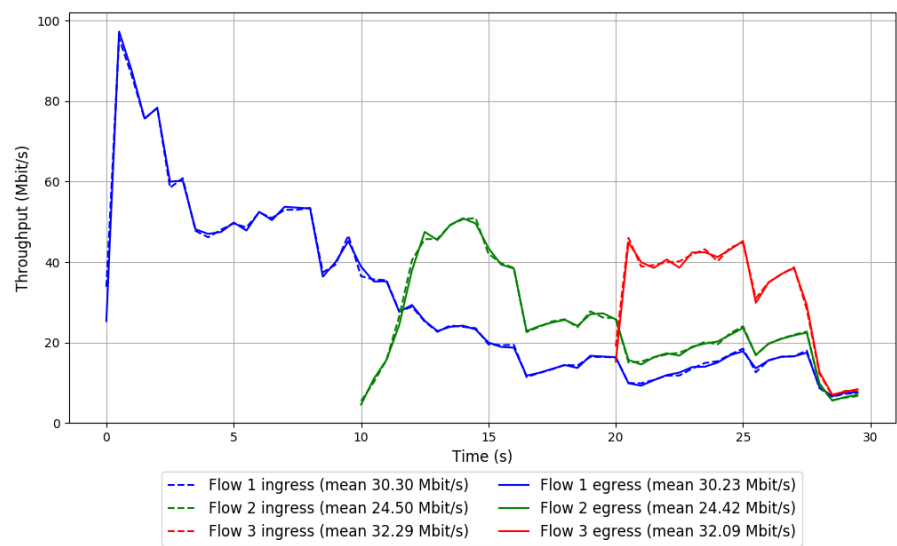


Run 7: Statistics of TCP Cubic

Start at: 2018-02-16 17:23:39  
End at: 2018-02-16 17:24:09  
Local clock offset: 0.496 ms  
Remote clock offset: -6.144 ms

# Below is generated by plot.py at 2018-02-16 19:41:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.12 Mbit/s  
95th percentile per-packet one-way delay: 37.917 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 30.23 Mbit/s  
95th percentile per-packet one-way delay: 38.925 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 24.42 Mbit/s  
95th percentile per-packet one-way delay: 36.050 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 32.09 Mbit/s  
95th percentile per-packet one-way delay: 36.499 ms  
Loss rate: 0.62%

Run 7: Report of TCP Cubic — Data Link

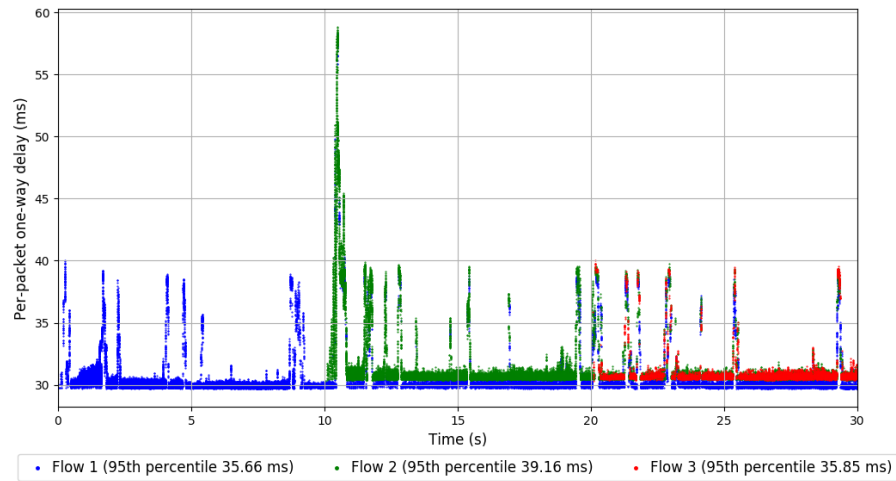
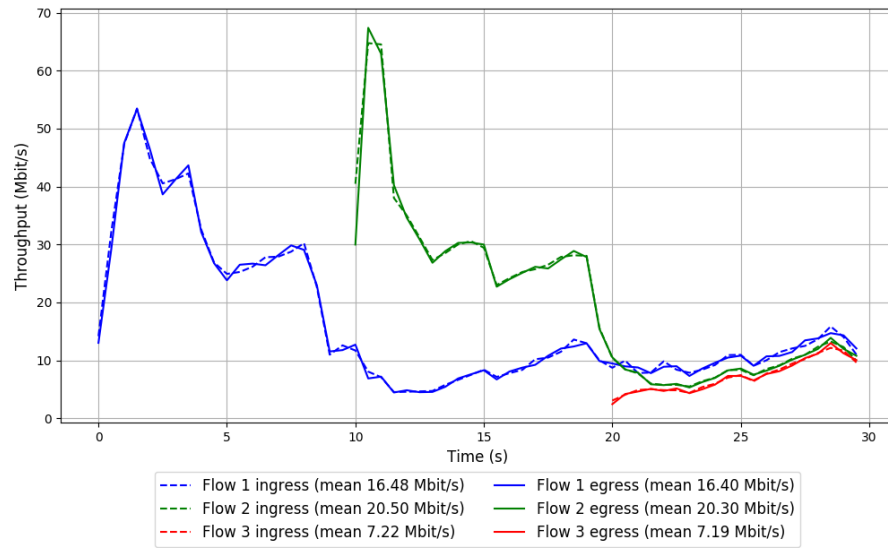


Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 17:51:53  
End at: 2018-02-16 17:52:23  
Local clock offset: 0.448 ms  
Remote clock offset: -3.471 ms

# Below is generated by plot.py at 2018-02-16 19:41:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 32.28 Mbit/s  
95th percentile per-packet one-way delay: 38.153 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 16.40 Mbit/s  
95th percentile per-packet one-way delay: 35.663 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 20.30 Mbit/s  
95th percentile per-packet one-way delay: 39.158 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 7.19 Mbit/s  
95th percentile per-packet one-way delay: 35.853 ms  
Loss rate: 0.50%

## Run 8: Report of TCP Cubic — Data Link

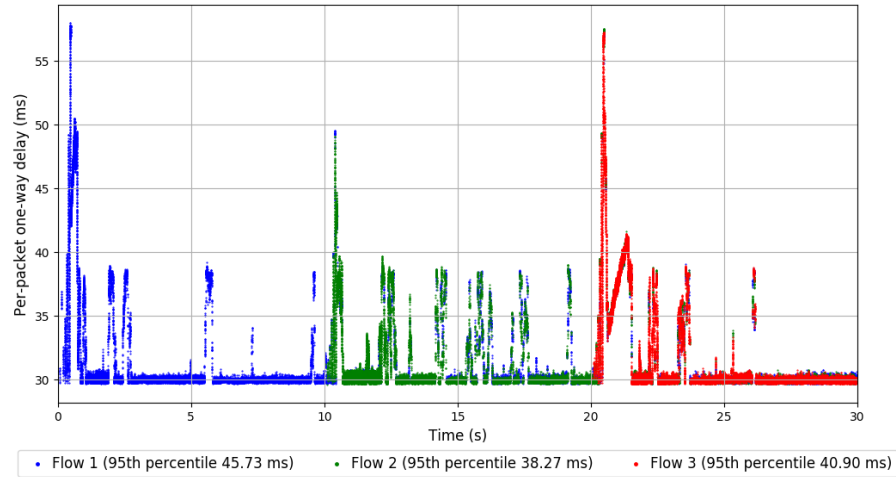
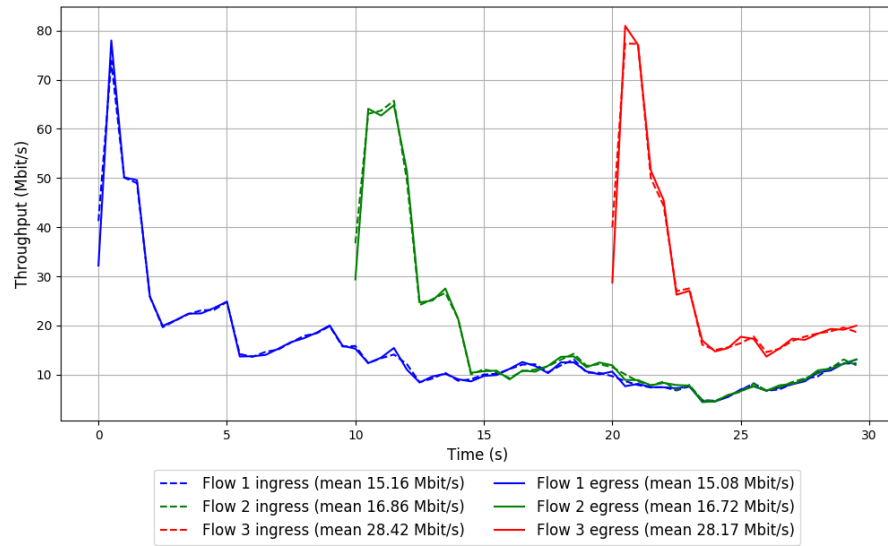


Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 18:18:28  
End at: 2018-02-16 18:18:58  
Local clock offset: 0.25 ms  
Remote clock offset: -1.921 ms

# Below is generated by plot.py at 2018-02-16 19:41:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.54 Mbit/s  
95th percentile per-packet one-way delay: 41.036 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 15.08 Mbit/s  
95th percentile per-packet one-way delay: 45.734 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 16.72 Mbit/s  
95th percentile per-packet one-way delay: 38.274 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 28.17 Mbit/s  
95th percentile per-packet one-way delay: 40.904 ms  
Loss rate: 0.87%

## Run 9: Report of TCP Cubic — Data Link



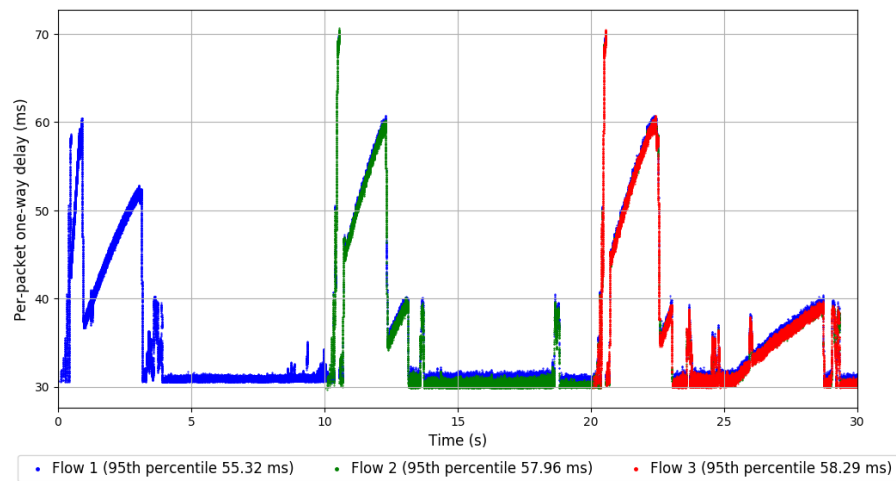
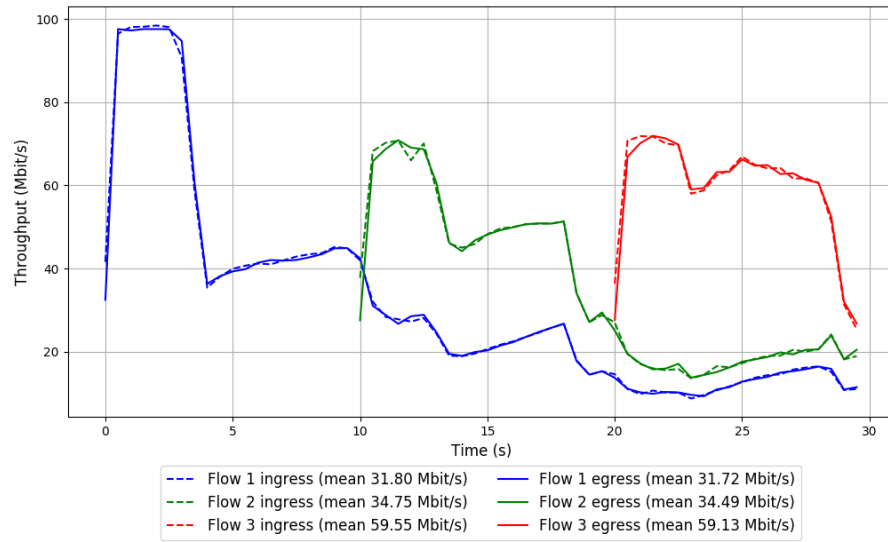
Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 18:43:43  
End at: 2018-02-16 18:44:13  
Local clock offset: -0.081 ms  
Remote clock offset: -4.036 ms

# Below is generated by plot.py at 2018-02-16 19:42:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.32 Mbit/s  
95th percentile per-packet one-way delay: 57.468 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 31.72 Mbit/s  
95th percentile per-packet one-way delay: 55.324 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 34.49 Mbit/s  
95th percentile per-packet one-way delay: 57.963 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 59.13 Mbit/s  
95th percentile per-packet one-way delay: 58.292 ms  
Loss rate: 0.70%



## Run 10: Report of TCP Cubic — Data Link

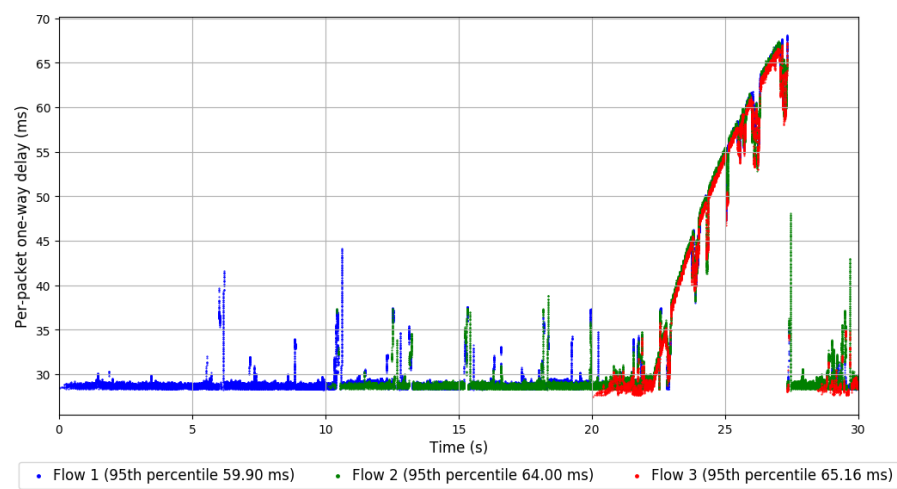
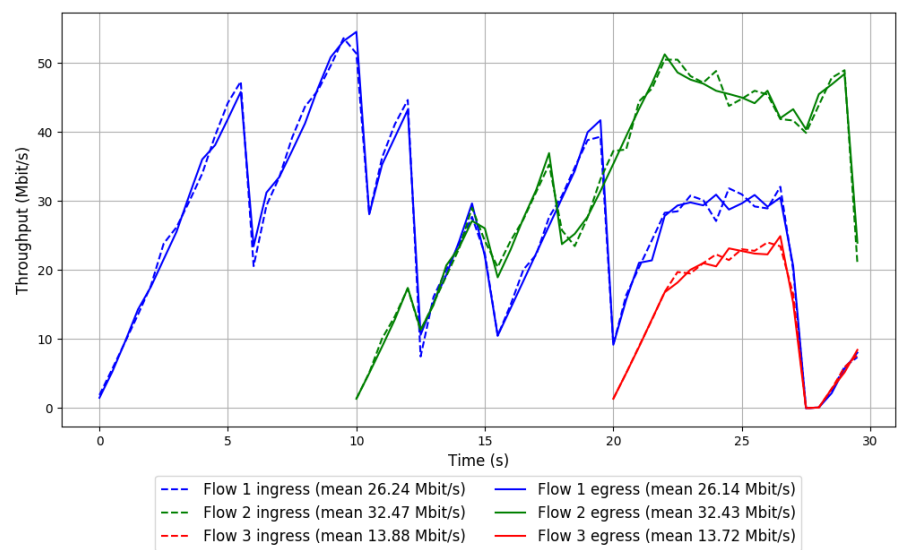


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 14:48:17
End at: 2018-02-16 14:48:47
Local clock offset: 0.176 ms
Remote clock offset: -6.691 ms

# Below is generated by plot.py at 2018-02-16 19:42:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.26 Mbit/s
95th percentile per-packet one-way delay: 63.531 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 59.899 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 63.998 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 13.72 Mbit/s
95th percentile per-packet one-way delay: 65.163 ms
Loss rate: 1.19%
```

Run 1: Report of LEDBAT — Data Link

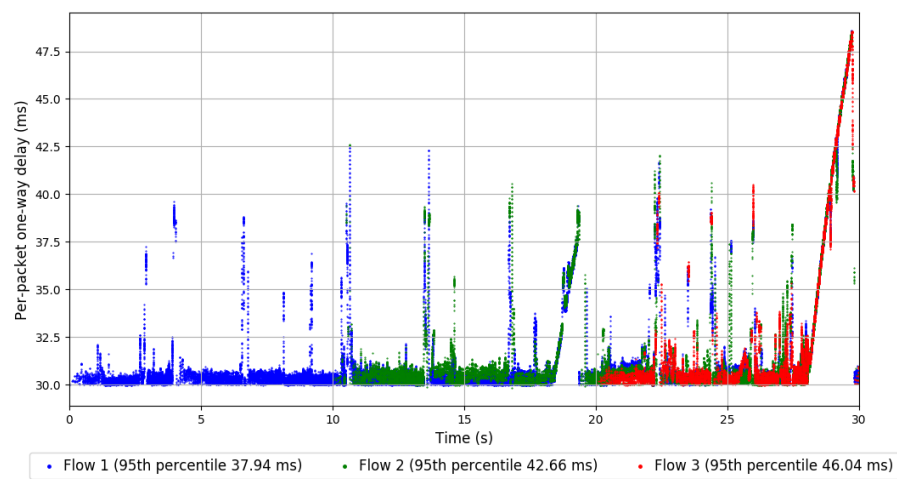
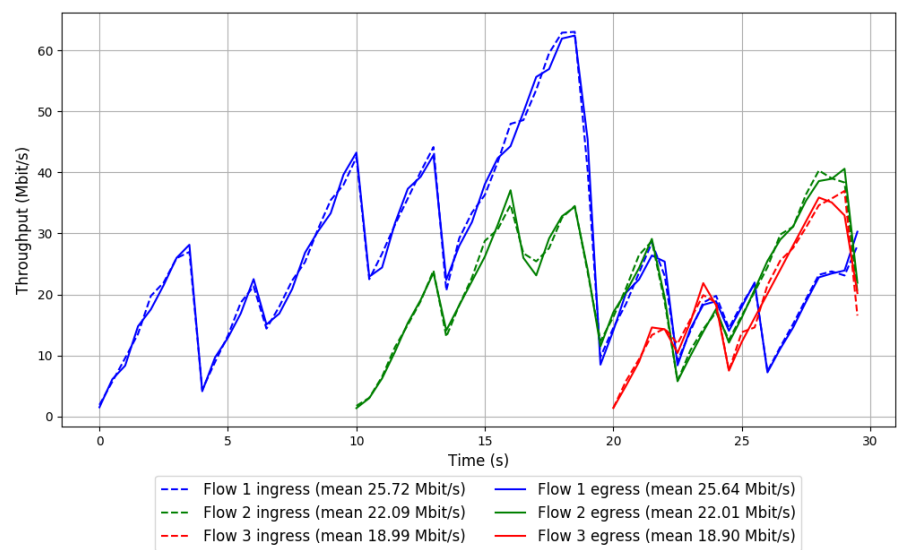


Run 2: Statistics of LEDBAT

Start at: 2018-02-16 15:14:56  
End at: 2018-02-16 15:15:26  
Local clock offset: 0.242 ms  
Remote clock offset: -5.068 ms

# Below is generated by plot.py at 2018-02-16 19:42:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.53 Mbit/s  
95th percentile per-packet one-way delay: 41.717 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 25.64 Mbit/s  
95th percentile per-packet one-way delay: 37.938 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 22.01 Mbit/s  
95th percentile per-packet one-way delay: 42.660 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 18.90 Mbit/s  
95th percentile per-packet one-way delay: 46.040 ms  
Loss rate: 0.47%

Run 2: Report of LEDBAT — Data Link

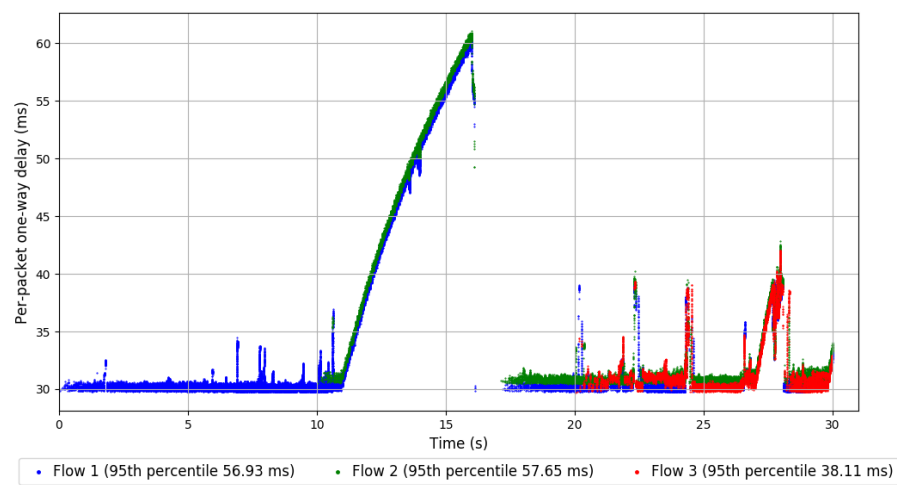
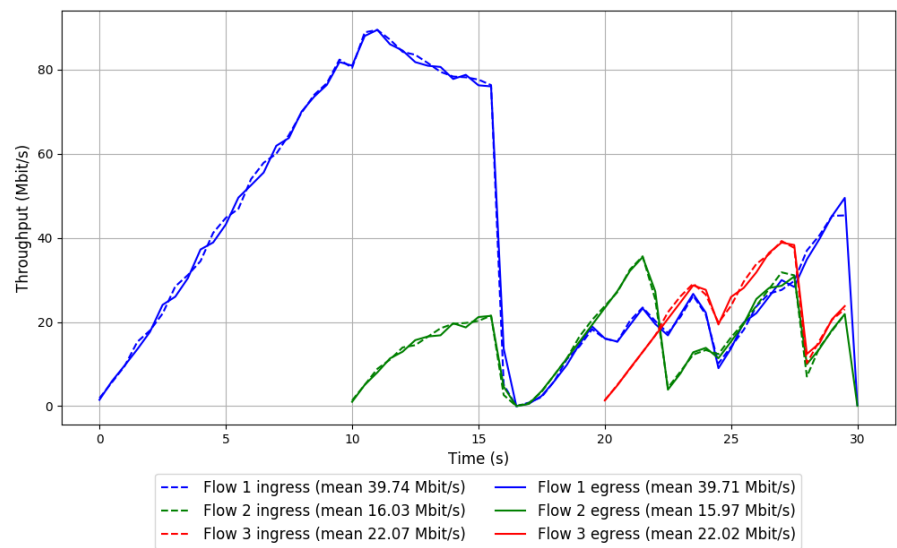


Run 3: Statistics of LEDBAT

Start at: 2018-02-16 15:41:06  
End at: 2018-02-16 15:41:36  
Local clock offset: -0.118 ms  
Remote clock offset: -5.352 ms

# Below is generated by plot.py at 2018-02-16 19:42:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.65 Mbit/s  
95th percentile per-packet one-way delay: 56.646 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 39.71 Mbit/s  
95th percentile per-packet one-way delay: 56.932 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 15.97 Mbit/s  
95th percentile per-packet one-way delay: 57.650 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 22.02 Mbit/s  
95th percentile per-packet one-way delay: 38.112 ms  
Loss rate: 0.22%

Run 3: Report of LEDBAT — Data Link



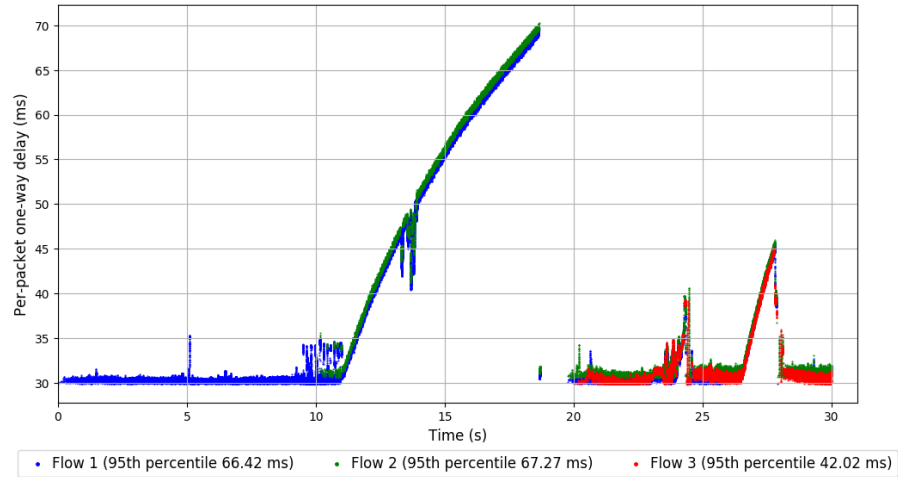
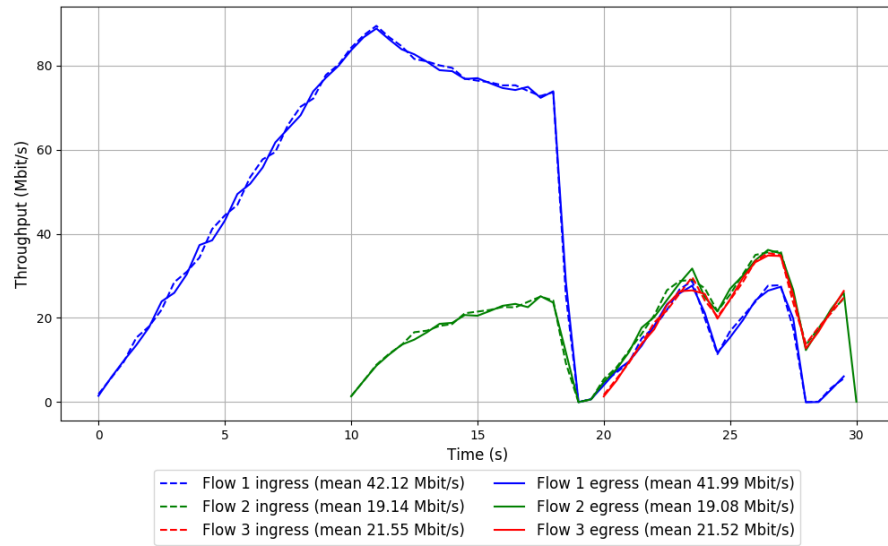
Run 4: Statistics of LEDBAT

Start at: 2018-02-16 16:05:59  
End at: 2018-02-16 16:06:29  
Local clock offset: -0.457 ms  
Remote clock offset: -3.615 ms

# Below is generated by plot.py at 2018-02-16 19:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.78 Mbit/s  
95th percentile per-packet one-way delay: 66.250 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 41.99 Mbit/s  
95th percentile per-packet one-way delay: 66.420 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 19.08 Mbit/s  
95th percentile per-packet one-way delay: 67.267 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 21.52 Mbit/s  
95th percentile per-packet one-way delay: 42.025 ms  
Loss rate: 0.10%



# Run 4: Report of LEDBAT — Data Link

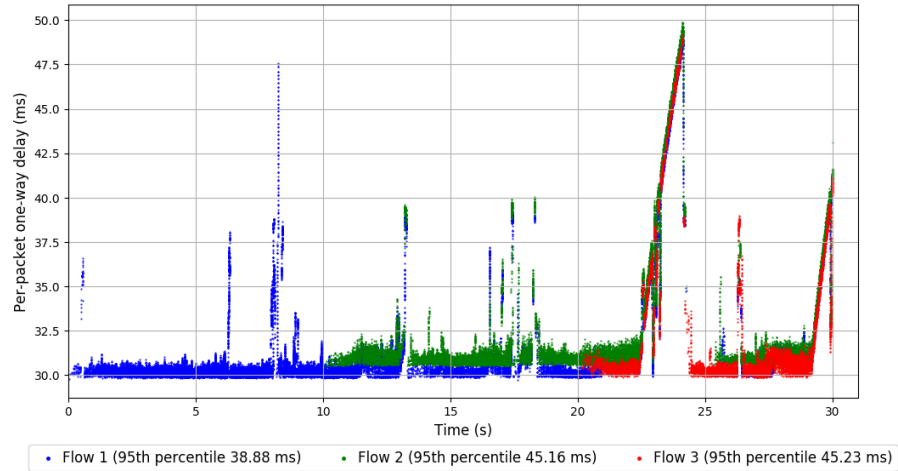
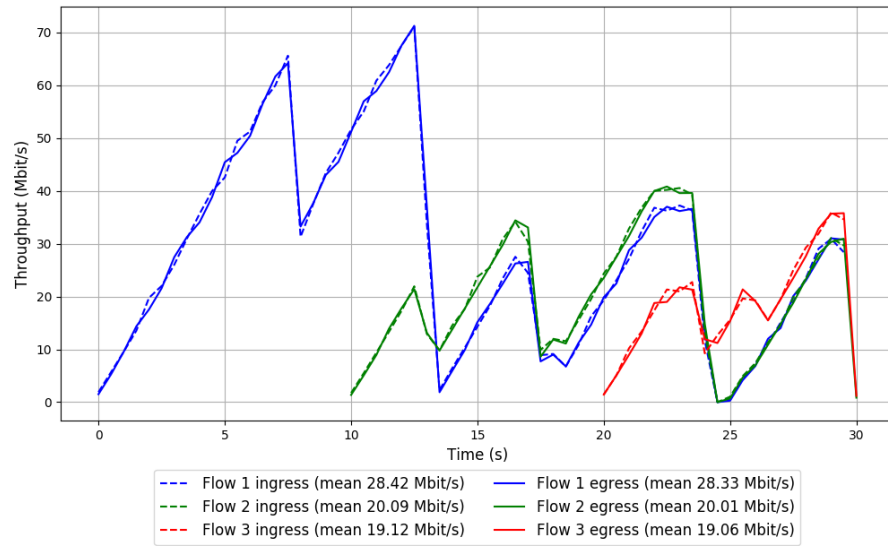


Run 5: Statistics of LEDBAT

Start at: 2018-02-16 16:32:18  
End at: 2018-02-16 16:32:48  
Local clock offset: -0.493 ms  
Remote clock offset: -4.032 ms

# Below is generated by plot.py at 2018-02-16 19:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.96 Mbit/s  
95th percentile per-packet one-way delay: 42.569 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 28.33 Mbit/s  
95th percentile per-packet one-way delay: 38.875 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 20.01 Mbit/s  
95th percentile per-packet one-way delay: 45.162 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 19.06 Mbit/s  
95th percentile per-packet one-way delay: 45.235 ms  
Loss rate: 0.18%

# Run 5: Report of LEDBAT — Data Link

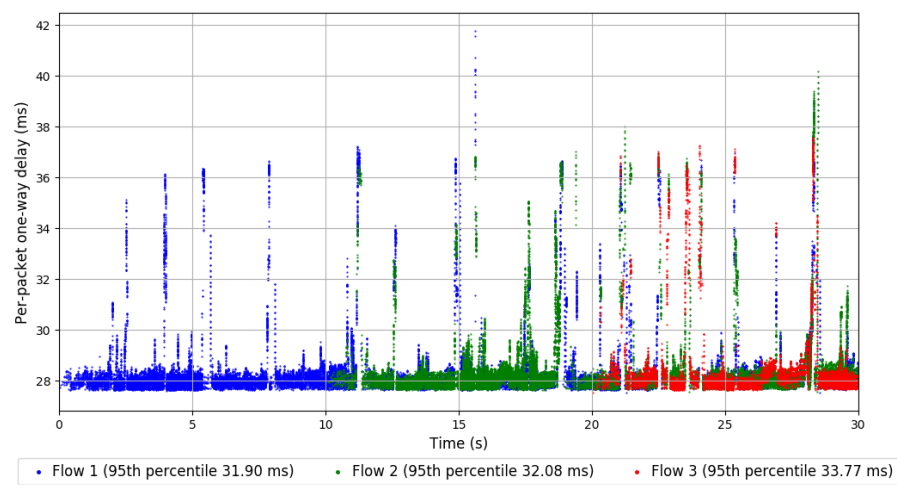
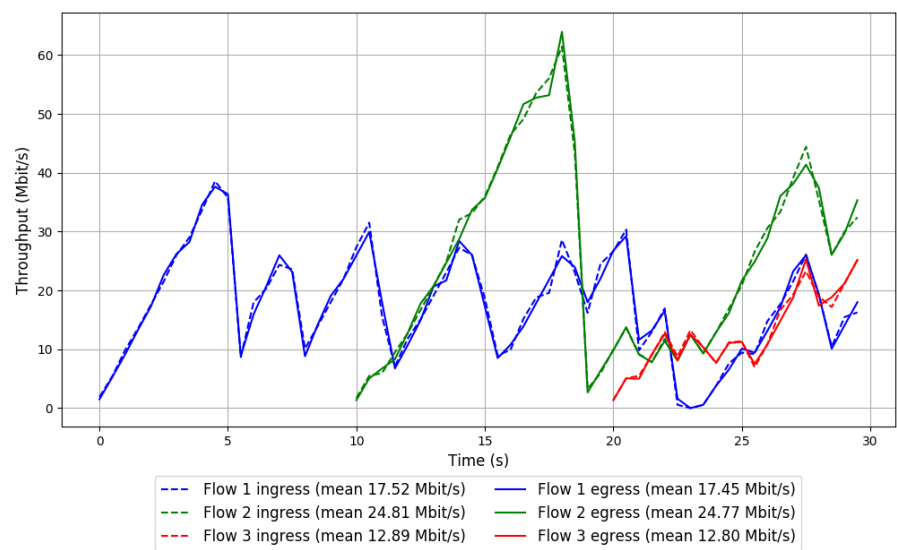


Run 6: Statistics of LEDBAT

Start at: 2018-02-16 16:58:04  
End at: 2018-02-16 16:58:34  
Local clock offset: 0.372 ms  
Remote clock offset: -6.826 ms

# Below is generated by plot.py at 2018-02-16 19:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.17 Mbit/s  
95th percentile per-packet one-way delay: 32.161 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 17.45 Mbit/s  
95th percentile per-packet one-way delay: 31.902 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 24.77 Mbit/s  
95th percentile per-packet one-way delay: 32.080 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 12.80 Mbit/s  
95th percentile per-packet one-way delay: 33.767 ms  
Loss rate: 0.70%

Run 6: Report of LEDBAT — Data Link

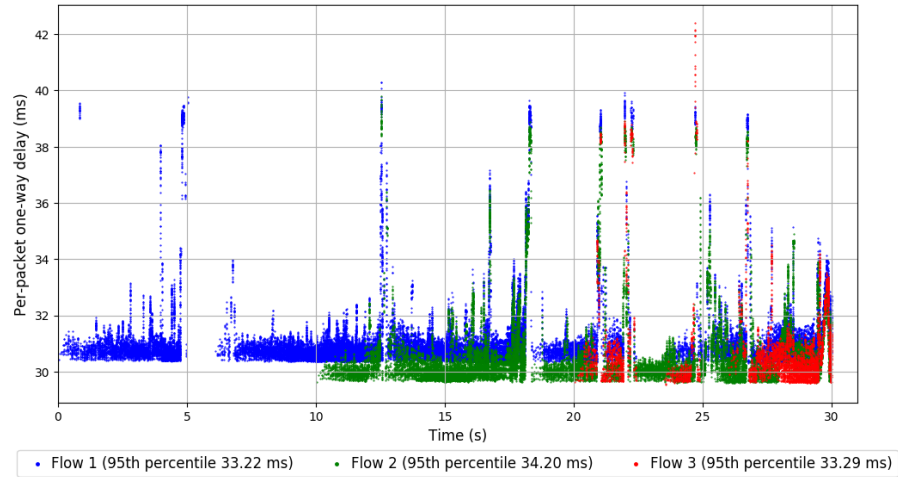
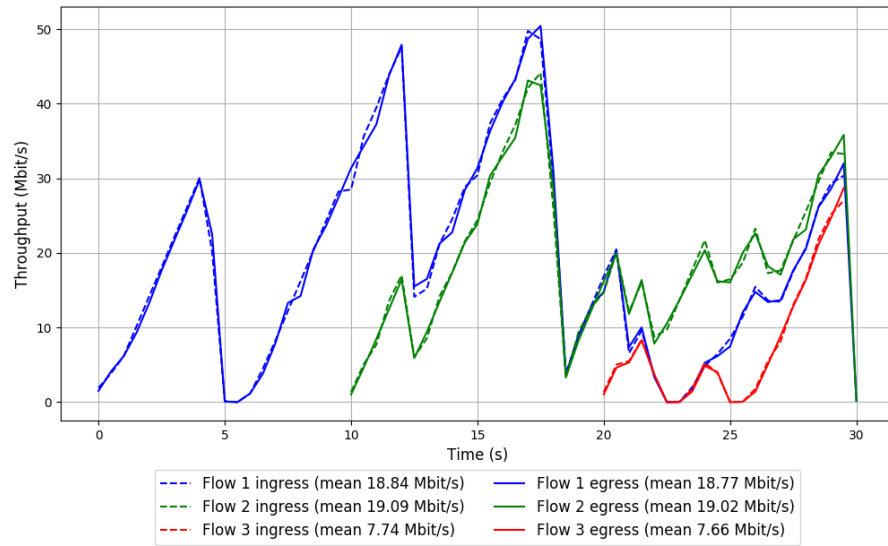


Run 7: Statistics of LEDBAT

Start at: 2018-02-16 17:26:55  
End at: 2018-02-16 17:27:25  
Local clock offset: 0.497 ms  
Remote clock offset: -5.756 ms

# Below is generated by plot.py at 2018-02-16 19:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 33.98 Mbit/s  
95th percentile per-packet one-way delay: 33.471 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 18.77 Mbit/s  
95th percentile per-packet one-way delay: 33.224 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 19.02 Mbit/s  
95th percentile per-packet one-way delay: 34.196 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 7.66 Mbit/s  
95th percentile per-packet one-way delay: 33.286 ms  
Loss rate: 0.99%

## Run 7: Report of LEDBAT — Data Link



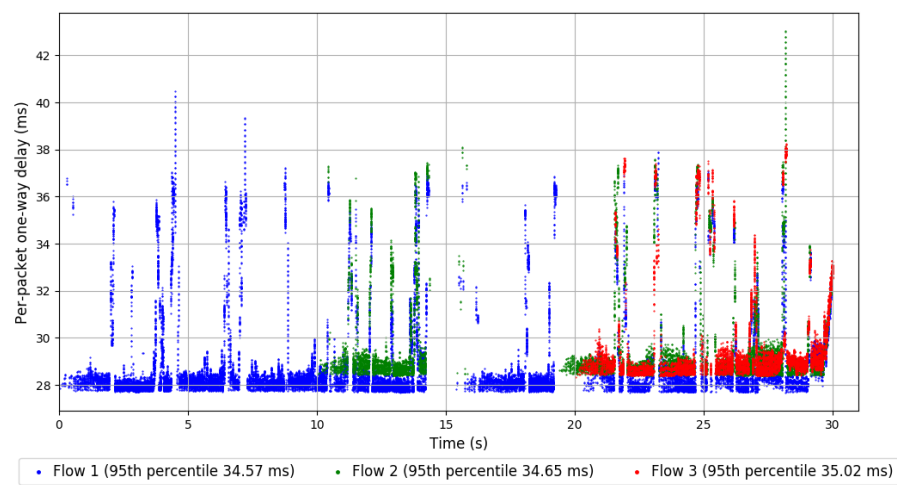
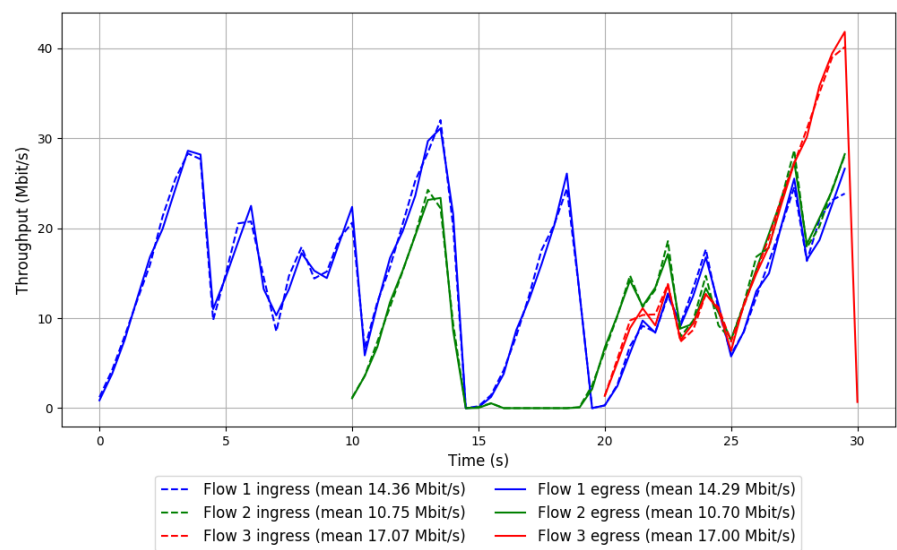
Run 8: Statistics of LEDBAT

Start at: 2018-02-16 17:54:47  
End at: 2018-02-16 17:55:17  
Local clock offset: 0.395 ms  
Remote clock offset: -5.338 ms

```
# Below is generated by plot.py at 2018-02-16 19:42:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.05 Mbit/s
95th percentile per-packet one-way delay: 34.634 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 34.571 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 10.70 Mbit/s
95th percentile per-packet one-way delay: 34.649 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 35.020 ms
Loss rate: 0.35%
```



Run 8: Report of LEDBAT — Data Link

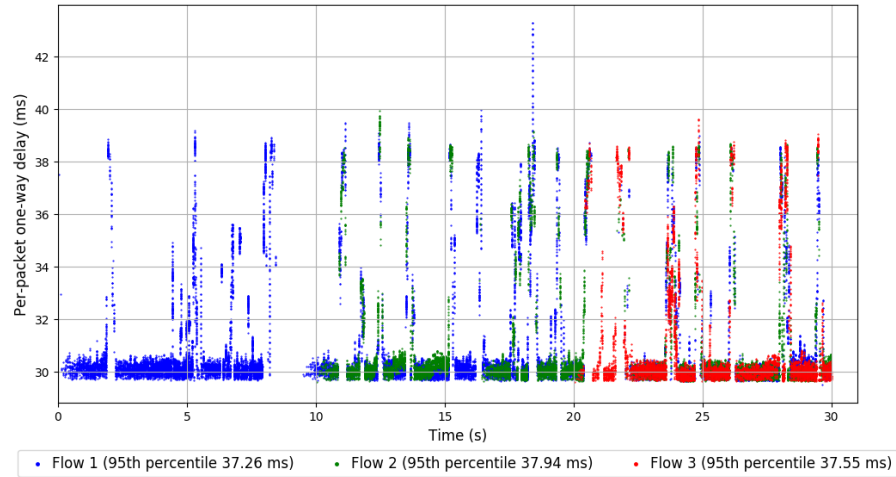
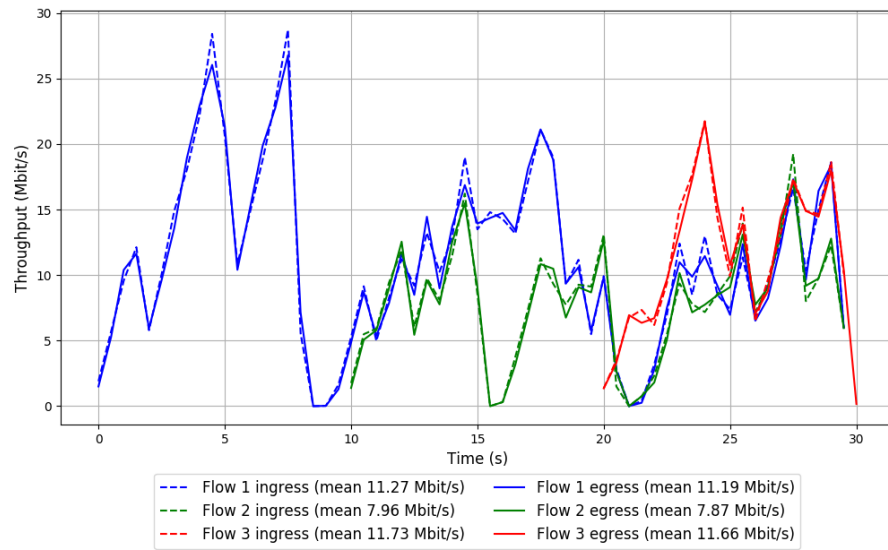


Run 9: Statistics of LEDBAT

Start at: 2018-02-16 18:21:13  
End at: 2018-02-16 18:21:43  
Local clock offset: 0.188 ms  
Remote clock offset: -1.721 ms

# Below is generated by plot.py at 2018-02-16 19:42:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.29 Mbit/s  
95th percentile per-packet one-way delay: 37.525 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 11.19 Mbit/s  
95th percentile per-packet one-way delay: 37.258 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 7.87 Mbit/s  
95th percentile per-packet one-way delay: 37.944 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 11.66 Mbit/s  
95th percentile per-packet one-way delay: 37.555 ms  
Loss rate: 0.65%

# Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 18:46:29

End at: 2018-02-16 18:46:59

Local clock offset: -0.199 ms

Remote clock offset: -4.54 ms

# Below is generated by plot.py at 2018-02-16 19:42:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 34.660 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 33.407 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 34.031 ms

Loss rate: 0.17%

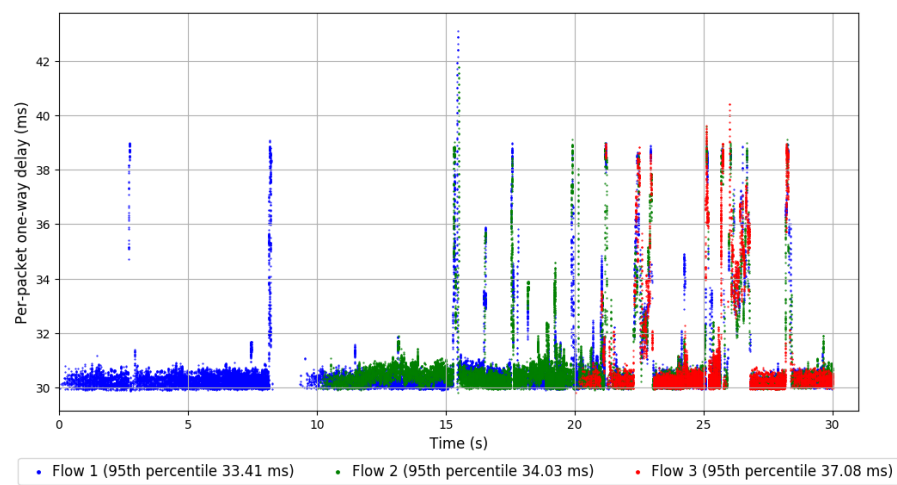
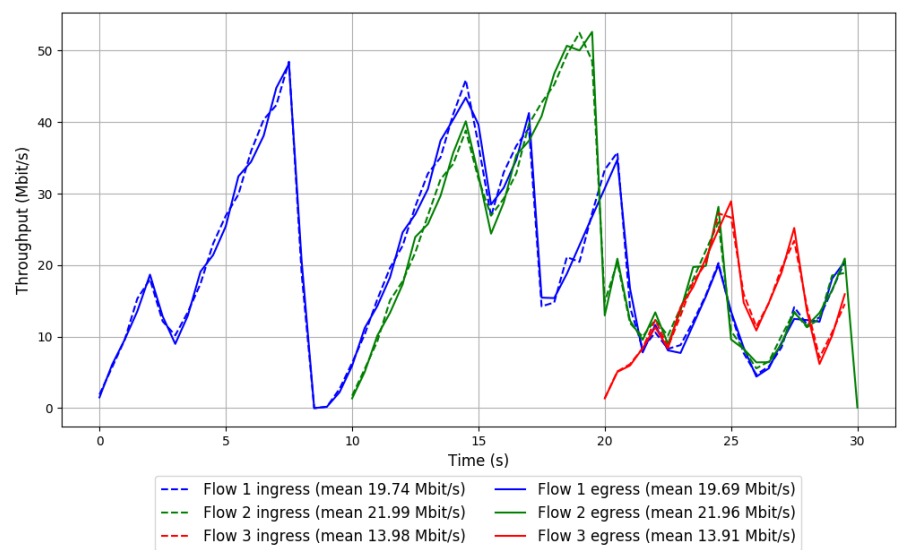
-- Flow 3:

Average throughput: 13.91 Mbit/s

95th percentile per-packet one-way delay: 37.077 ms

Loss rate: 0.52%

Run 10: Report of LEDBAT — Data Link

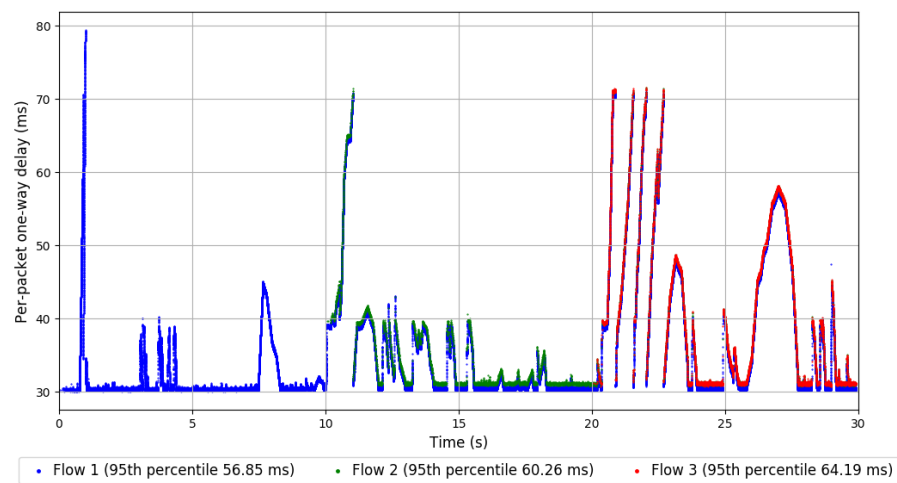
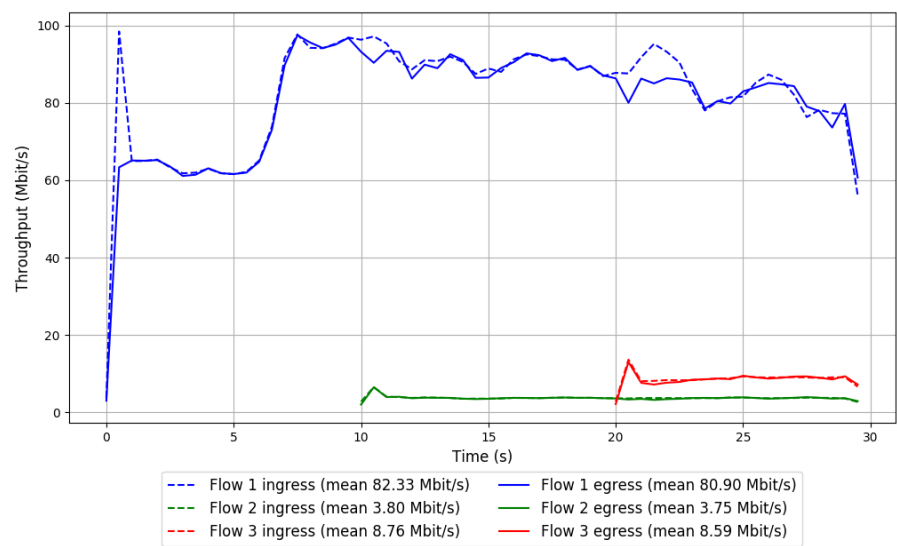


```
Run 1: Statistics of PCC

Start at: 2018-02-16 14:54:05
End at: 2018-02-16 14:54:35
Local clock offset: 0.281 ms
Remote clock offset: -4.048 ms

# Below is generated by plot.py at 2018-02-16 19:43:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 57.167 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 80.90 Mbit/s
95th percentile per-packet one-way delay: 56.851 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 60.261 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 64.191 ms
Loss rate: 1.98%
```

Run 1: Report of PCC — Data Link



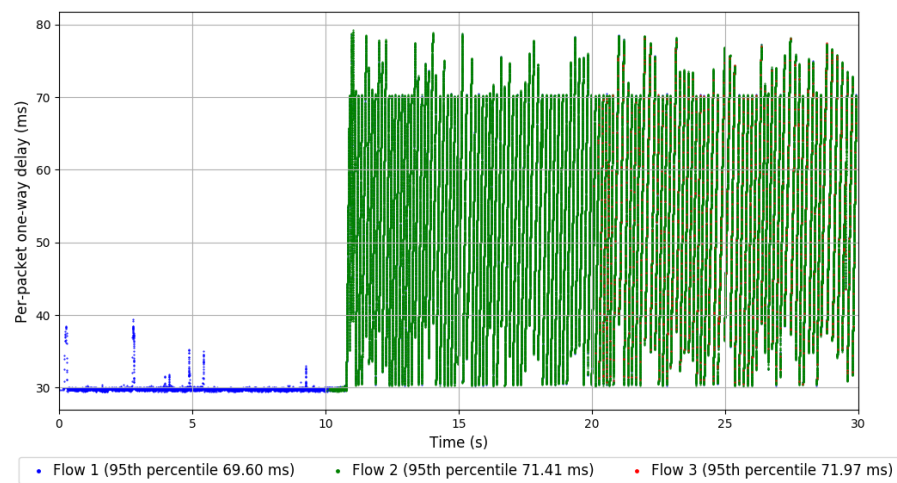
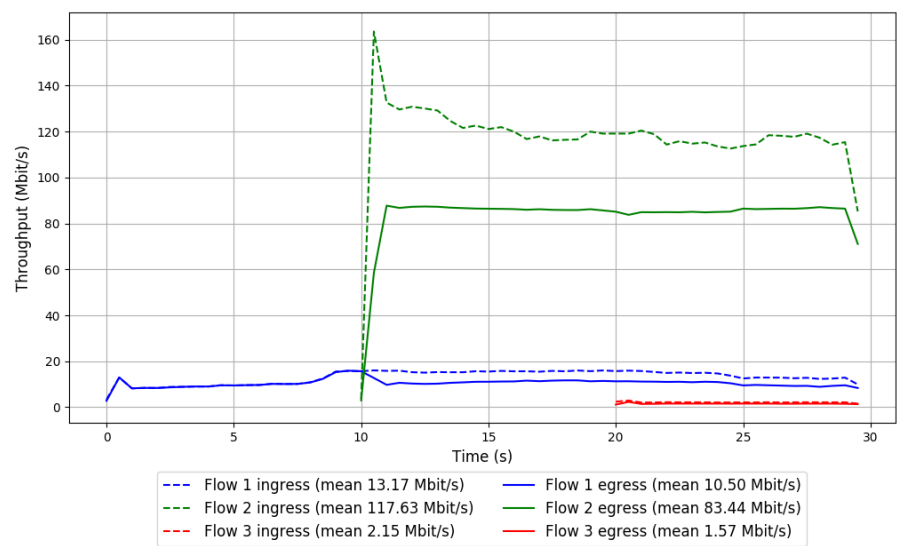
Run 2: Statistics of PCC

Start at: 2018-02-16 15:20:39  
End at: 2018-02-16 15:21:09  
Local clock offset: 0.354 ms  
Remote clock offset: -5.515 ms

# Below is generated by plot.py at 2018-02-16 19:43:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.51 Mbit/s  
95th percentile per-packet one-way delay: 71.133 ms  
Loss rate: 27.74%  
-- Flow 1:  
Average throughput: 10.50 Mbit/s  
95th percentile per-packet one-way delay: 69.600 ms  
Loss rate: 20.28%  
-- Flow 2:  
Average throughput: 83.44 Mbit/s  
95th percentile per-packet one-way delay: 71.409 ms  
Loss rate: 29.00%  
-- Flow 3:  
Average throughput: 1.57 Mbit/s  
95th percentile per-packet one-way delay: 71.970 ms  
Loss rate: 27.25%



Run 2: Report of PCC — Data Link

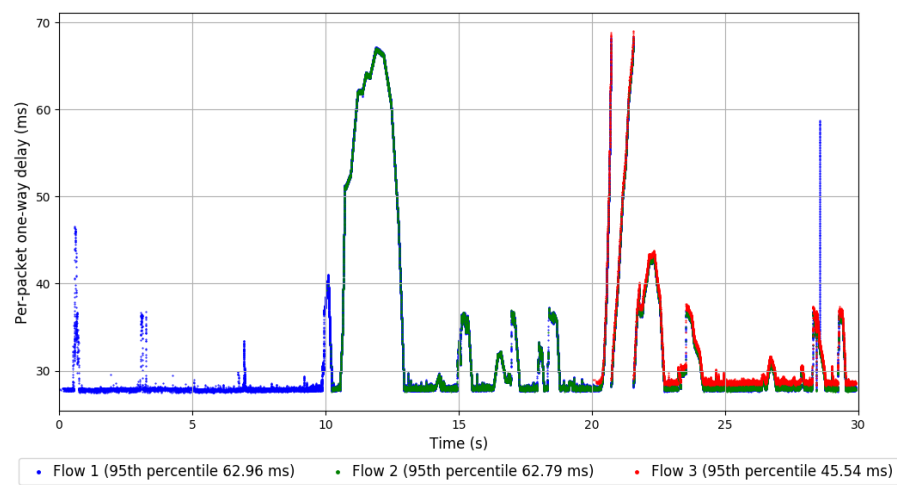
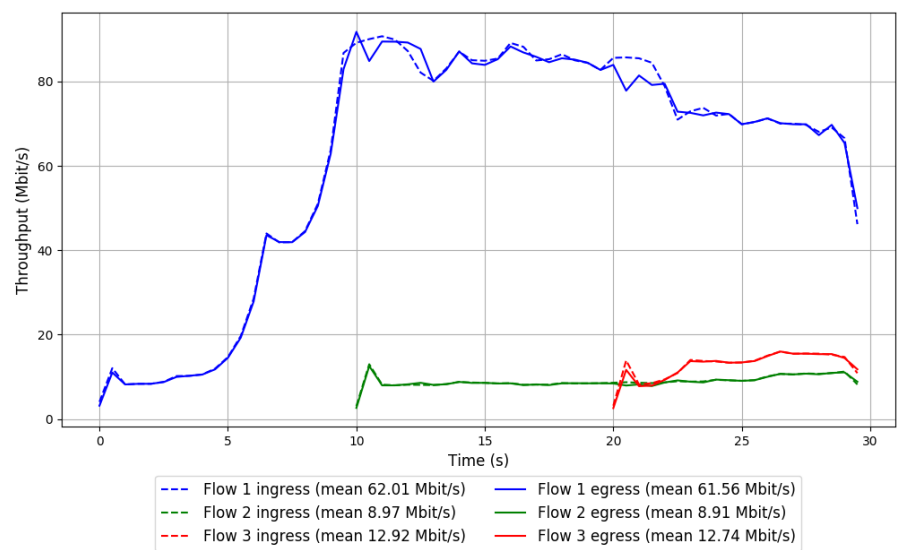


Run 3: Statistics of PCC

Start at: 2018-02-16 15:46:33  
End at: 2018-02-16 15:47:03  
Local clock offset: -0.259 ms  
Remote clock offset: -7.024 ms

# Below is generated by plot.py at 2018-02-16 19:43:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.69 Mbit/s  
95th percentile per-packet one-way delay: 62.646 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 61.56 Mbit/s  
95th percentile per-packet one-way delay: 62.958 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 8.91 Mbit/s  
95th percentile per-packet one-way delay: 62.787 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 12.74 Mbit/s  
95th percentile per-packet one-way delay: 45.540 ms  
Loss rate: 1.40%

Run 3: Report of PCC — Data Link

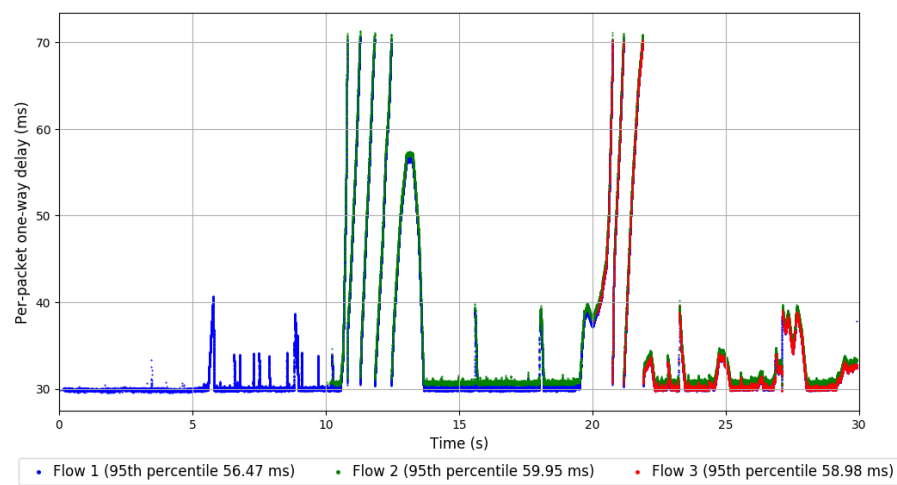
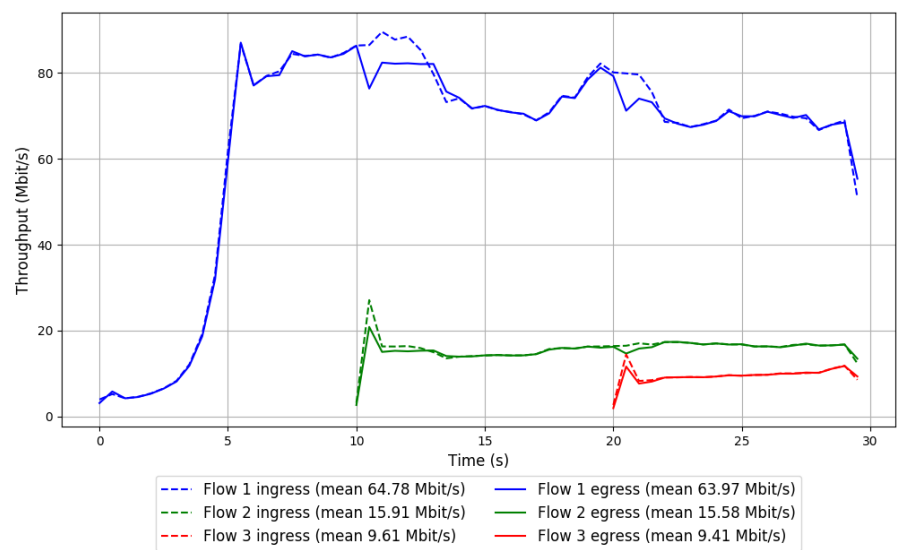


Run 4: Statistics of PCC

Start at: 2018-02-16 16:11:32  
End at: 2018-02-16 16:12:02  
Local clock offset: -0.4 ms  
Remote clock offset: -3.456 ms

# Below is generated by plot.py at 2018-02-16 19:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.43 Mbit/s  
95th percentile per-packet one-way delay: 57.048 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 63.97 Mbit/s  
95th percentile per-packet one-way delay: 56.472 ms  
Loss rate: 1.23%  
-- Flow 2:  
Average throughput: 15.58 Mbit/s  
95th percentile per-packet one-way delay: 59.947 ms  
Loss rate: 2.08%  
-- Flow 3:  
Average throughput: 9.41 Mbit/s  
95th percentile per-packet one-way delay: 58.983 ms  
Loss rate: 2.09%

Run 4: Report of PCC — Data Link

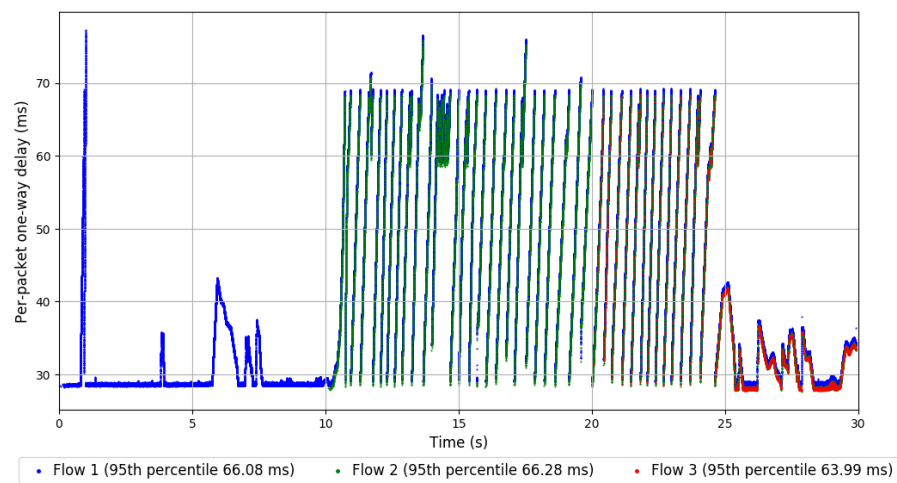
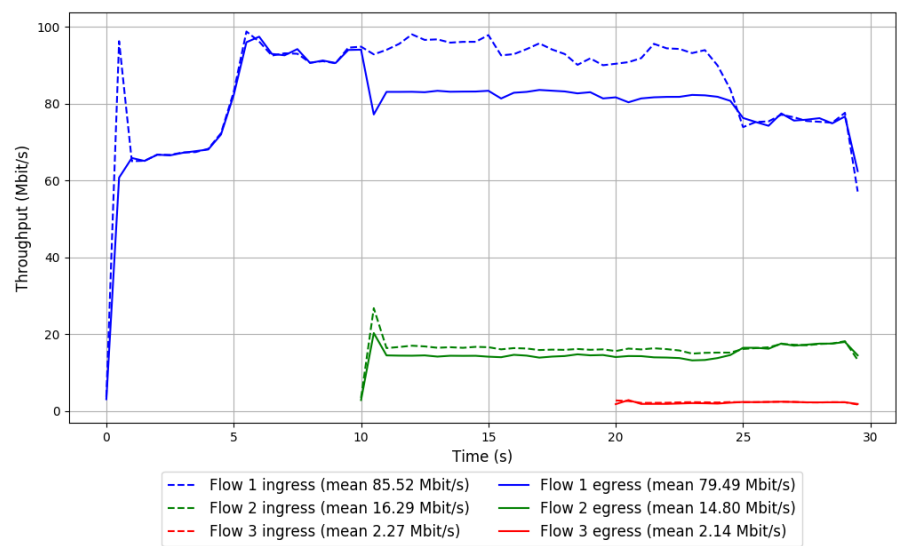


Run 5: Statistics of PCC

Start at: 2018-02-16 16:37:47  
End at: 2018-02-16 16:38:17  
Local clock offset: -0.144 ms  
Remote clock offset: -6.241 ms

# Below is generated by plot.py at 2018-02-16 19:43:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.04 Mbit/s  
95th percentile per-packet one-way delay: 66.098 ms  
Loss rate: 7.25%  
-- Flow 1:  
Average throughput: 79.49 Mbit/s  
95th percentile per-packet one-way delay: 66.083 ms  
Loss rate: 7.02%  
-- Flow 2:  
Average throughput: 14.80 Mbit/s  
95th percentile per-packet one-way delay: 66.283 ms  
Loss rate: 9.15%  
-- Flow 3:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 63.987 ms  
Loss rate: 5.78%

Run 5: Report of PCC — Data Link



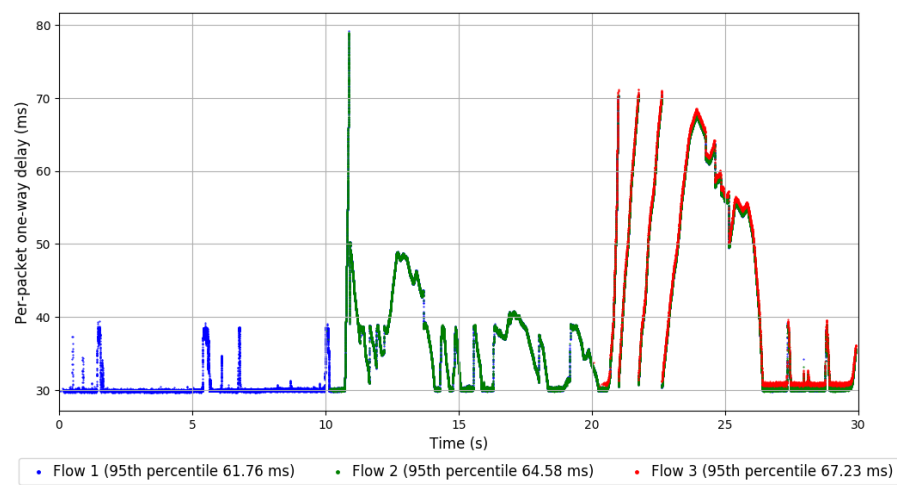
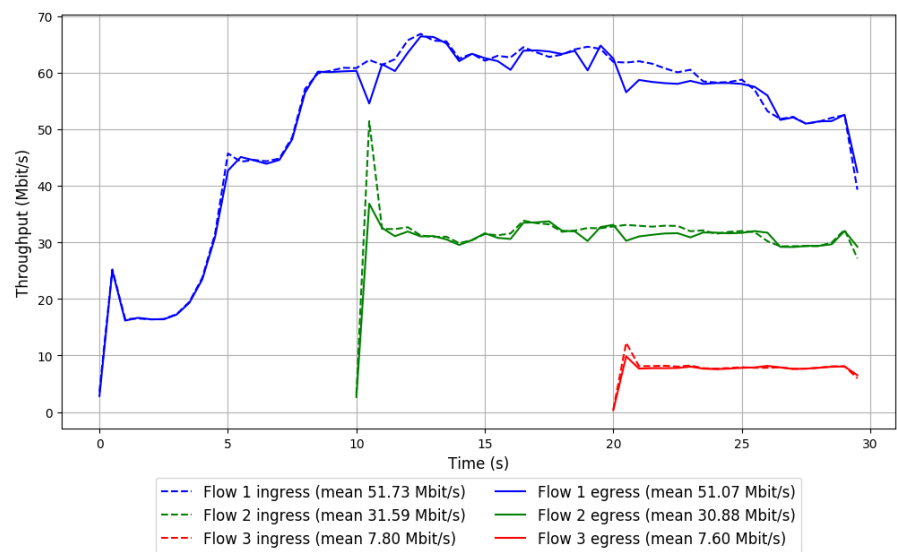
Run 6: Statistics of PCC

Start at: 2018-02-16 17:03:45  
End at: 2018-02-16 17:04:15  
Local clock offset: 0.533 ms  
Remote clock offset: -4.805 ms

# Below is generated by plot.py at 2018-02-16 19:43:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.10 Mbit/s  
95th percentile per-packet one-way delay: 63.021 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 51.07 Mbit/s  
95th percentile per-packet one-way delay: 61.761 ms  
Loss rate: 1.26%  
-- Flow 2:  
Average throughput: 30.88 Mbit/s  
95th percentile per-packet one-way delay: 64.578 ms  
Loss rate: 2.24%  
-- Flow 3:  
Average throughput: 7.60 Mbit/s  
95th percentile per-packet one-way delay: 67.232 ms  
Loss rate: 2.48%



Run 6: Report of PCC — Data Link

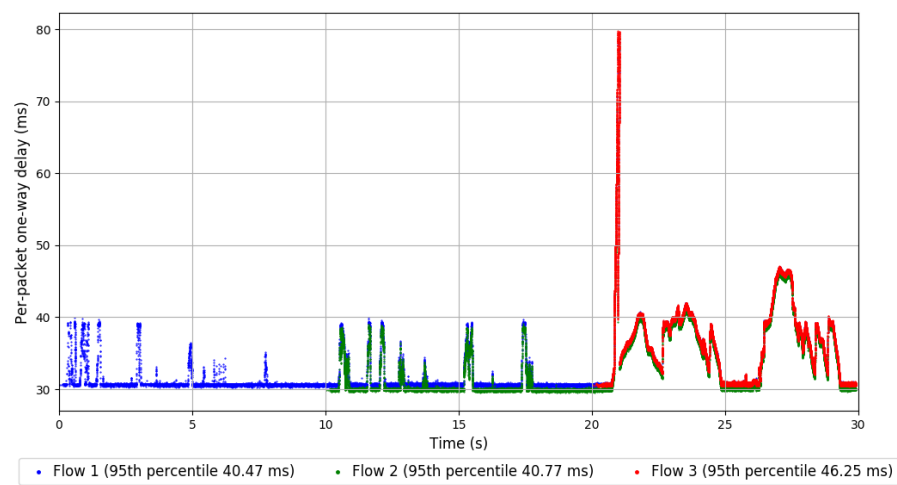
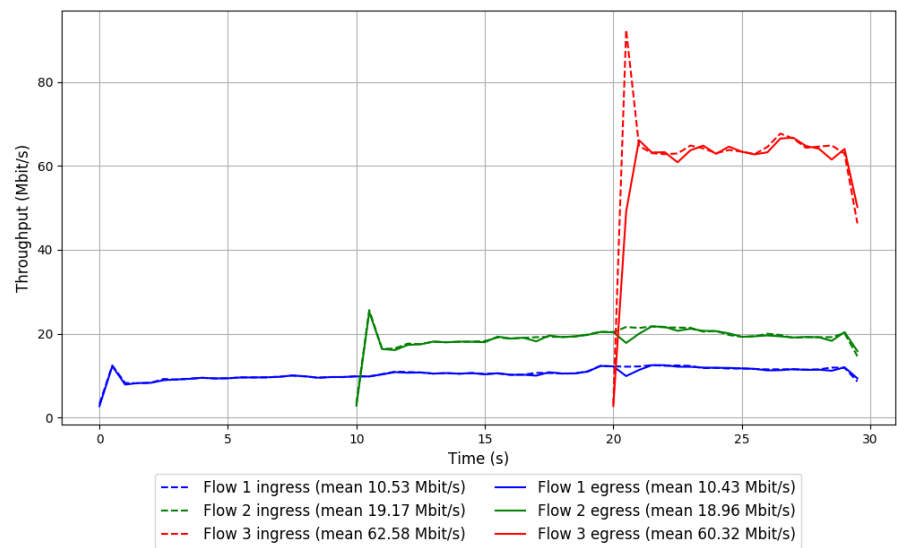


Run 7: Statistics of PCC

Start at: 2018-02-16 17:32:57  
End at: 2018-02-16 17:33:27  
Local clock offset: 0.436 ms  
Remote clock offset: -4.723 ms

# Below is generated by plot.py at 2018-02-16 19:43:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.94 Mbit/s  
95th percentile per-packet one-way delay: 45.514 ms  
Loss rate: 2.24%  
-- Flow 1:  
Average throughput: 10.43 Mbit/s  
95th percentile per-packet one-way delay: 40.465 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 18.96 Mbit/s  
95th percentile per-packet one-way delay: 40.766 ms  
Loss rate: 1.08%  
-- Flow 3:  
Average throughput: 60.32 Mbit/s  
95th percentile per-packet one-way delay: 46.246 ms  
Loss rate: 3.62%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-16 18:00:20

End at: 2018-02-16 18:00:50

Local clock offset: 0.42 ms

Remote clock offset: -2.55 ms

# Below is generated by plot.py at 2018-02-16 19:44:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 65.198 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 80.80 Mbit/s

95th percentile per-packet one-way delay: 64.919 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 67.144 ms

Loss rate: 1.48%

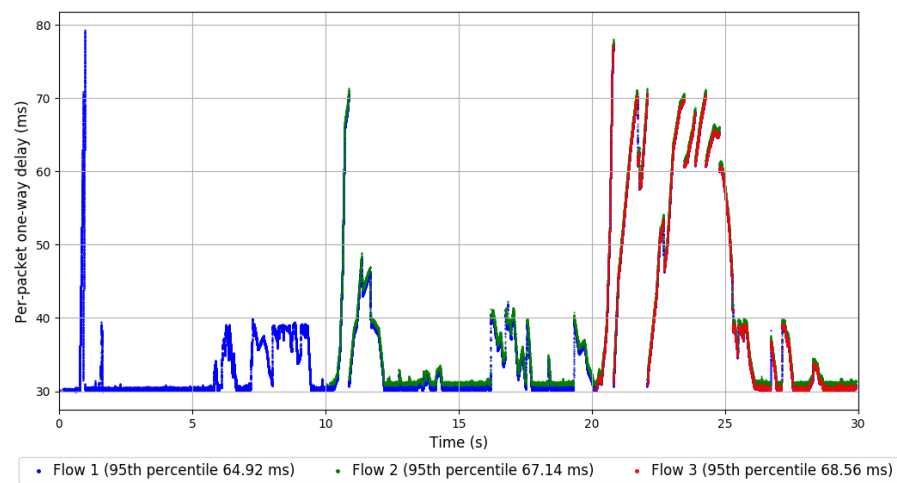
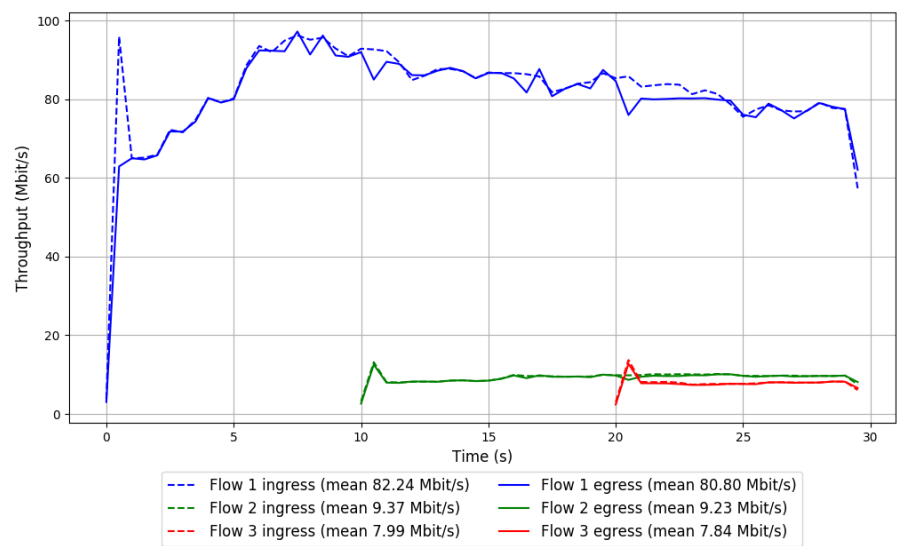
-- Flow 3:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 68.557 ms

Loss rate: 1.99%

Run 8: Report of PCC — Data Link

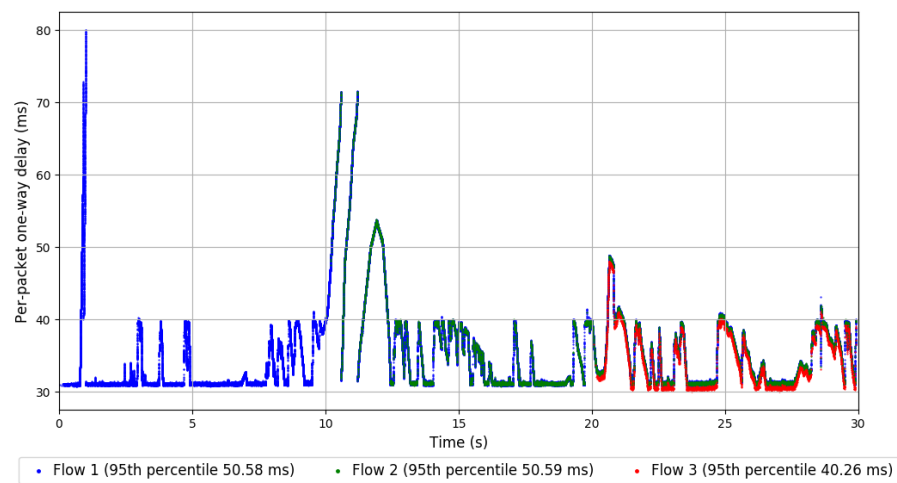
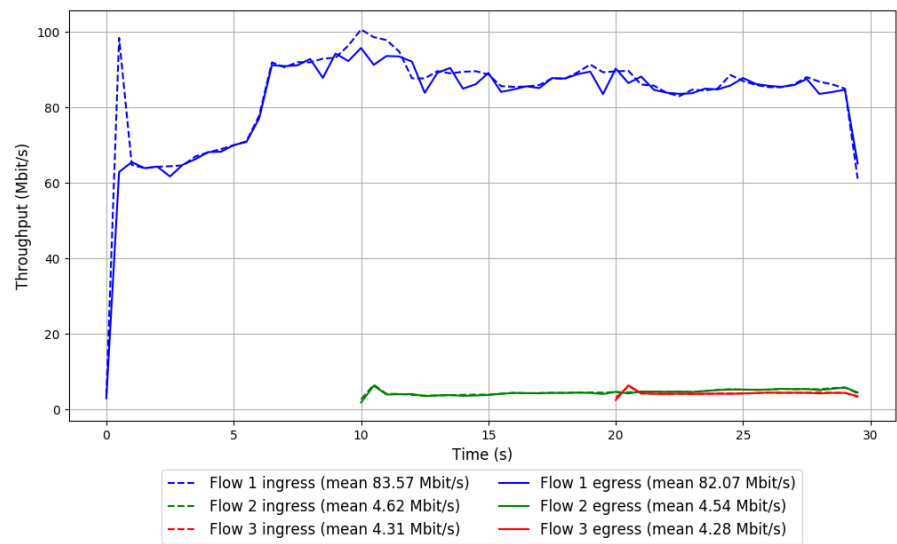


Run 9: Statistics of PCC

Start at: 2018-02-16 18:26:36  
End at: 2018-02-16 18:27:06  
Local clock offset: -0.022 ms  
Remote clock offset: -1.011 ms

# Below is generated by plot.py at 2018-02-16 19:44:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.49 Mbit/s  
95th percentile per-packet one-way delay: 50.413 ms  
Loss rate: 1.75%  
-- Flow 1:  
Average throughput: 82.07 Mbit/s  
95th percentile per-packet one-way delay: 50.578 ms  
Loss rate: 1.77%  
-- Flow 2:  
Average throughput: 4.54 Mbit/s  
95th percentile per-packet one-way delay: 50.586 ms  
Loss rate: 1.65%  
-- Flow 3:  
Average throughput: 4.28 Mbit/s  
95th percentile per-packet one-way delay: 40.260 ms  
Loss rate: 0.62%

Run 9: Report of PCC — Data Link



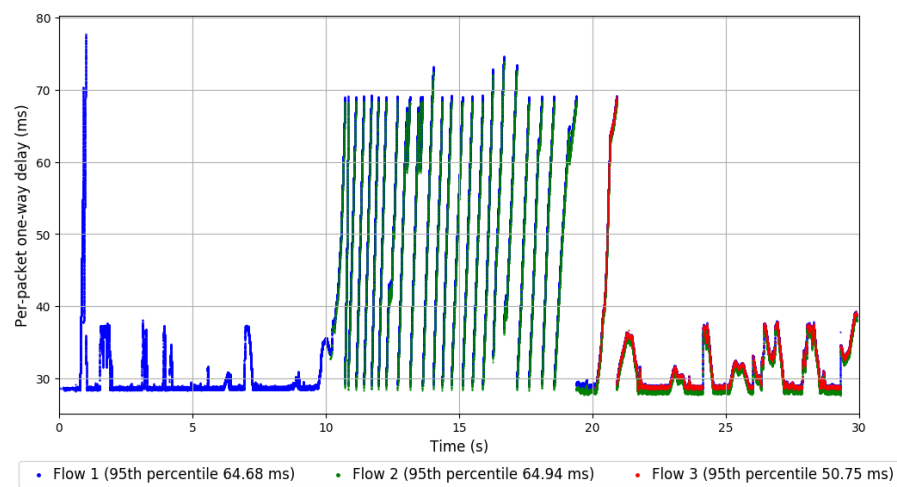
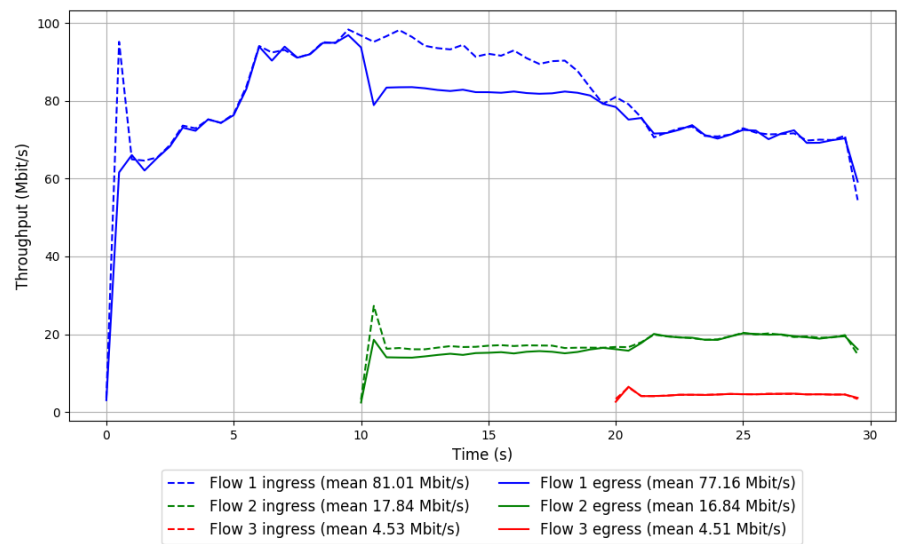
Run 10: Statistics of PCC

Start at: 2018-02-16 18:51:53  
End at: 2018-02-16 18:52:23  
Local clock offset: 0.088 ms  
Remote clock offset: -7.345 ms

# Below is generated by plot.py at 2018-02-16 19:44:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.85 Mbit/s  
95th percentile per-packet one-way delay: 64.667 ms  
Loss rate: 4.76%  
-- Flow 1:  
Average throughput: 77.16 Mbit/s  
95th percentile per-packet one-way delay: 64.682 ms  
Loss rate: 4.72%  
-- Flow 2:  
Average throughput: 16.84 Mbit/s  
95th percentile per-packet one-way delay: 64.938 ms  
Loss rate: 5.60%  
-- Flow 3:  
Average throughput: 4.51 Mbit/s  
95th percentile per-packet one-way delay: 50.746 ms  
Loss rate: 0.40%



Run 10: Report of PCC — Data Link

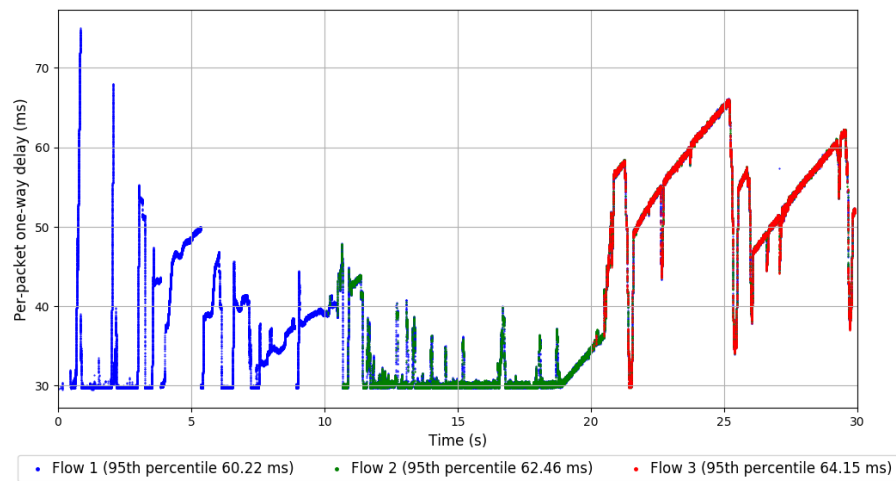
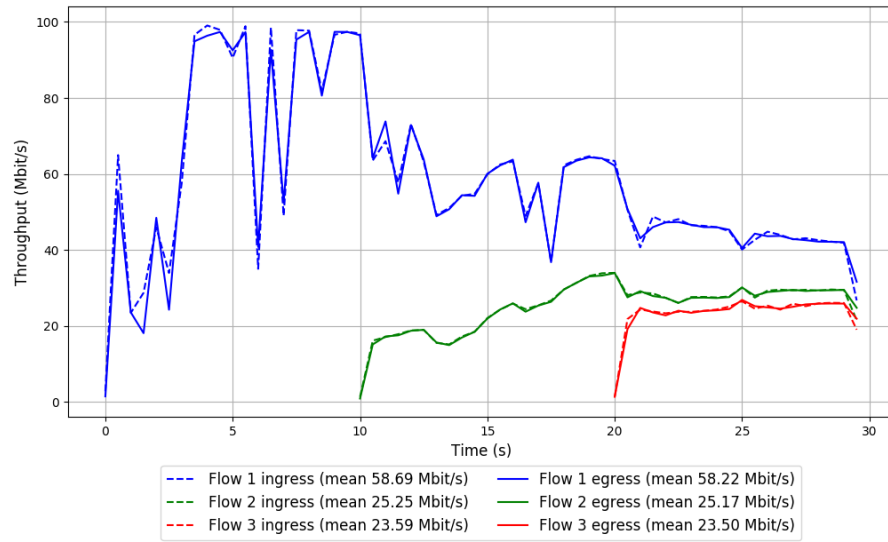


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 15:01:18  
End at: 2018-02-16 15:01:48  
Local clock offset: 0.316 ms  
Remote clock offset: -4.541 ms

# Below is generated by plot.py at 2018-02-16 19:44:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.68 Mbit/s  
95th percentile per-packet one-way delay: 61.708 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 58.22 Mbit/s  
95th percentile per-packet one-way delay: 60.215 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 25.17 Mbit/s  
95th percentile per-packet one-way delay: 62.458 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 23.50 Mbit/s  
95th percentile per-packet one-way delay: 64.147 ms  
Loss rate: 0.21%

## Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 15:27:54

End at: 2018-02-16 15:28:24

Local clock offset: 0.13 ms

Remote clock offset: -5.58 ms

# Below is generated by plot.py at 2018-02-16 19:44:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 59.801 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 35.58 Mbit/s

95th percentile per-packet one-way delay: 59.097 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 49.64 Mbit/s

95th percentile per-packet one-way delay: 61.315 ms

Loss rate: 1.04%

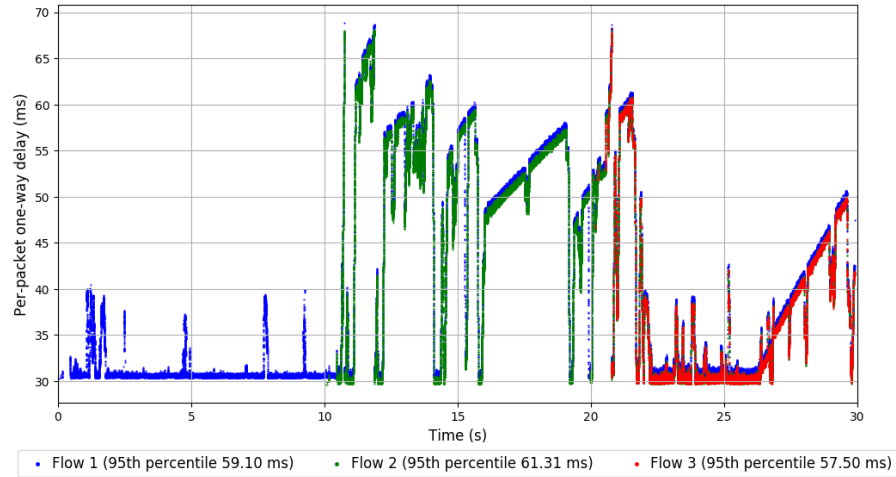
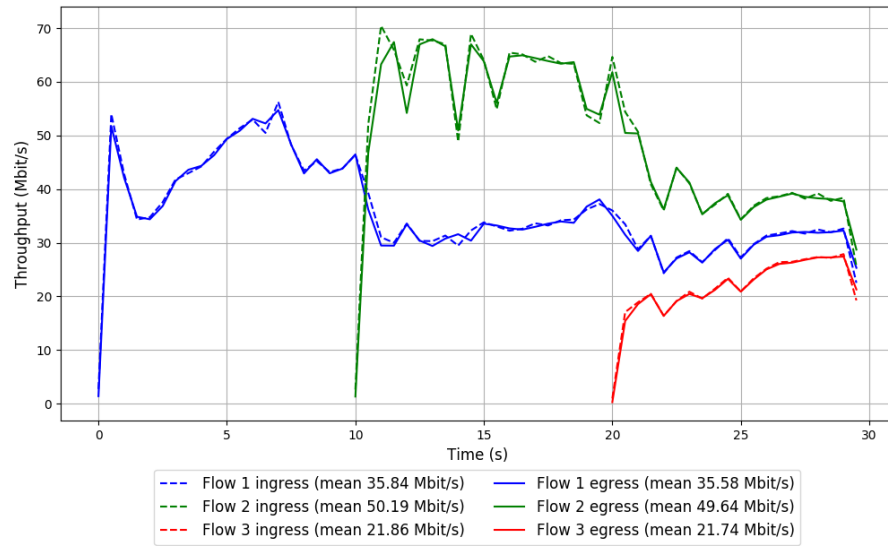
-- Flow 3:

Average throughput: 21.74 Mbit/s

95th percentile per-packet one-way delay: 57.499 ms

Loss rate: 0.69%

## Run 2: Report of QUIC Cubic — Data Link

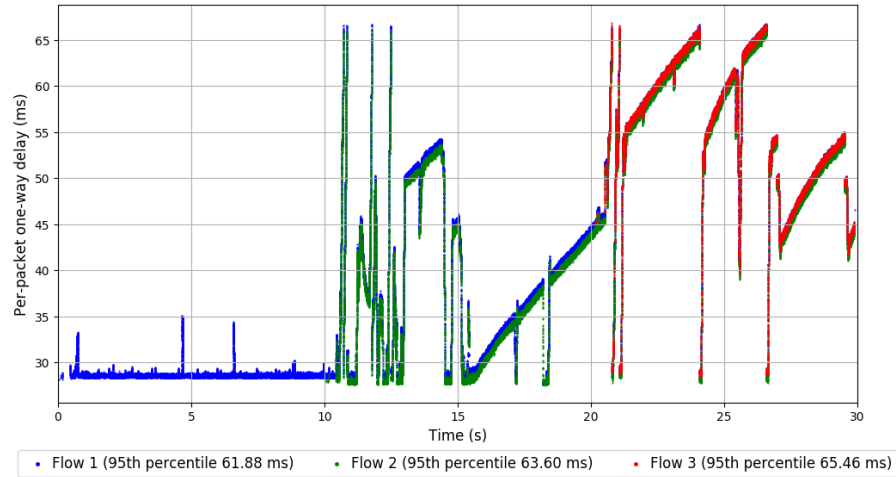
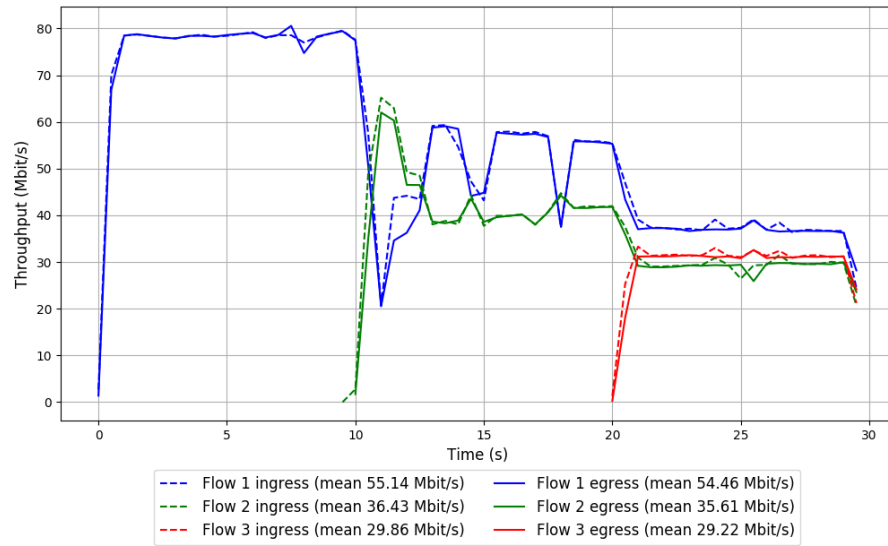


Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 15:53:21  
End at: 2018-02-16 15:53:51  
Local clock offset: -0.268 ms  
Remote clock offset: -6.358 ms

# Below is generated by plot.py at 2018-02-16 19:45:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.75 Mbit/s  
95th percentile per-packet one-way delay: 63.800 ms  
Loss rate: 1.55%  
-- Flow 1:  
Average throughput: 54.46 Mbit/s  
95th percentile per-packet one-way delay: 61.881 ms  
Loss rate: 1.18%  
-- Flow 2:  
Average throughput: 35.61 Mbit/s  
95th percentile per-packet one-way delay: 63.604 ms  
Loss rate: 2.17%  
-- Flow 3:  
Average throughput: 29.22 Mbit/s  
95th percentile per-packet one-way delay: 65.457 ms  
Loss rate: 2.15%

### Run 3: Report of QUIC Cubic — Data Link



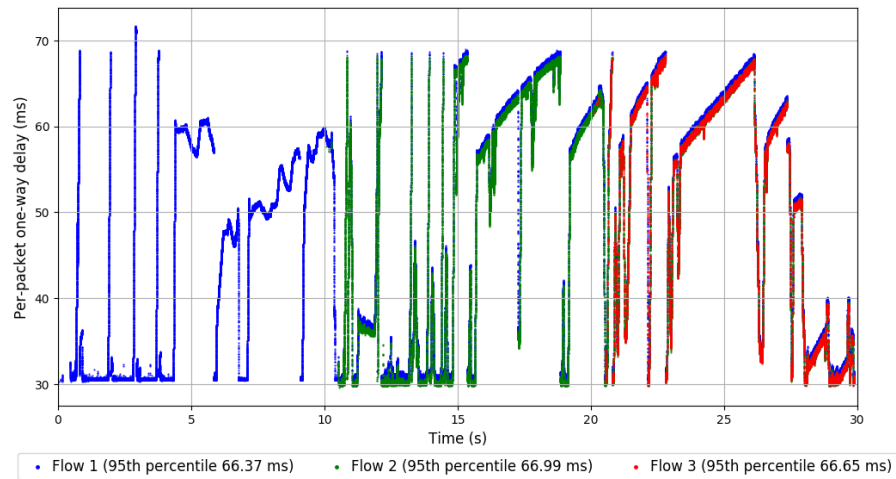
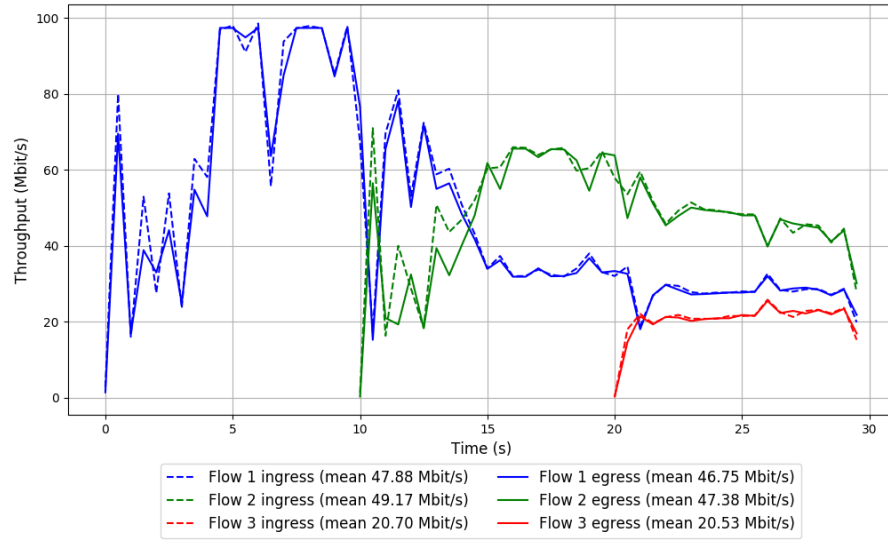
Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 16:18:26  
End at: 2018-02-16 16:18:56  
Local clock offset: -0.549 ms  
Remote clock offset: -3.601 ms

# Below is generated by plot.py at 2018-02-16 19:45:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.90 Mbit/s  
95th percentile per-packet one-way delay: 66.861 ms  
Loss rate: 2.79%  
-- Flow 1:  
Average throughput: 46.75 Mbit/s  
95th percentile per-packet one-way delay: 66.370 ms  
Loss rate: 2.34%  
-- Flow 2:  
Average throughput: 47.38 Mbit/s  
95th percentile per-packet one-way delay: 66.992 ms  
Loss rate: 3.79%  
-- Flow 3:  
Average throughput: 20.53 Mbit/s  
95th percentile per-packet one-way delay: 66.651 ms  
Loss rate: 1.10%



#### Run 4: Report of QUIC Cubic — Data Link

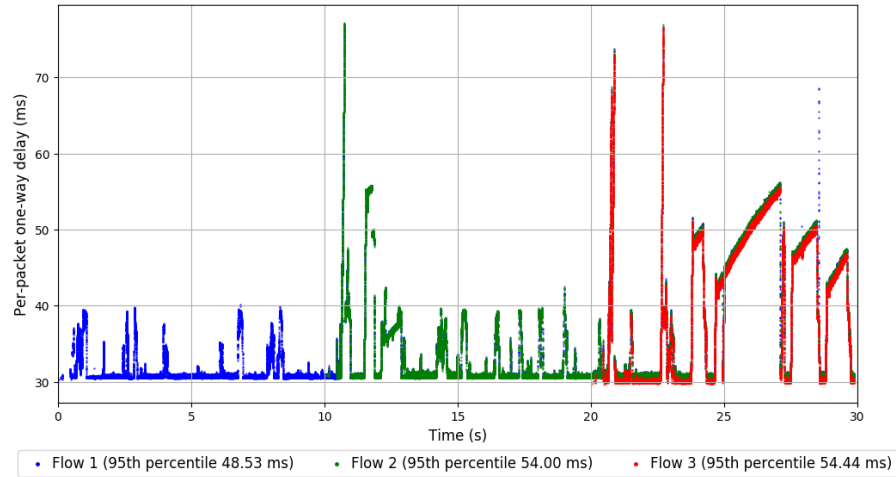
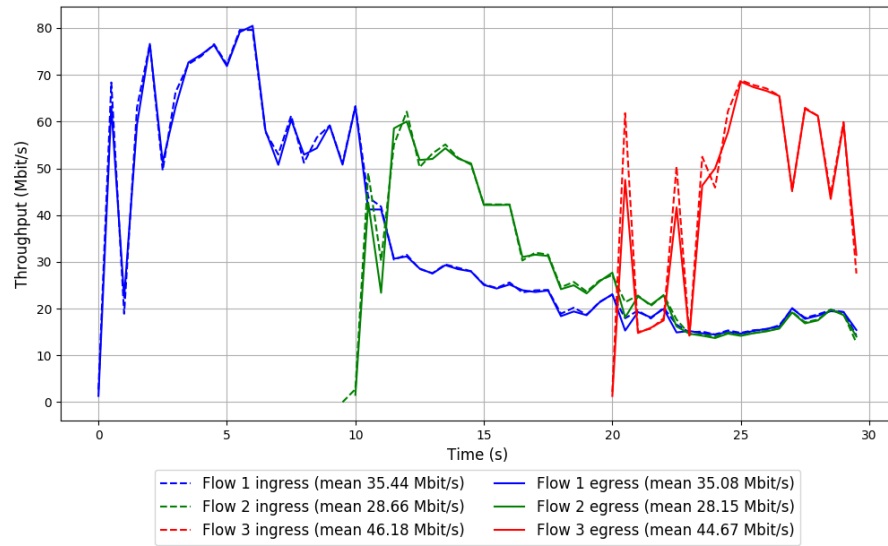


Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 16:44:42  
End at: 2018-02-16 16:45:12  
Local clock offset: 0.119 ms  
Remote clock offset: -4.364 ms

# Below is generated by plot.py at 2018-02-16 19:45:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.51 Mbit/s  
95th percentile per-packet one-way delay: 52.760 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 35.08 Mbit/s  
95th percentile per-packet one-way delay: 48.527 ms  
Loss rate: 1.04%  
-- Flow 2:  
Average throughput: 28.15 Mbit/s  
95th percentile per-packet one-way delay: 53.998 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 44.67 Mbit/s  
95th percentile per-packet one-way delay: 54.439 ms  
Loss rate: 3.26%

## Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-16 17:11:33

End at: 2018-02-16 17:12:03

Local clock offset: 0.516 ms

Remote clock offset: -4.96 ms

# Below is generated by plot.py at 2018-02-16 19:45:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.65 Mbit/s

95th percentile per-packet one-way delay: 63.549 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 48.63 Mbit/s

95th percentile per-packet one-way delay: 61.726 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 63.858 ms

Loss rate: 0.40%

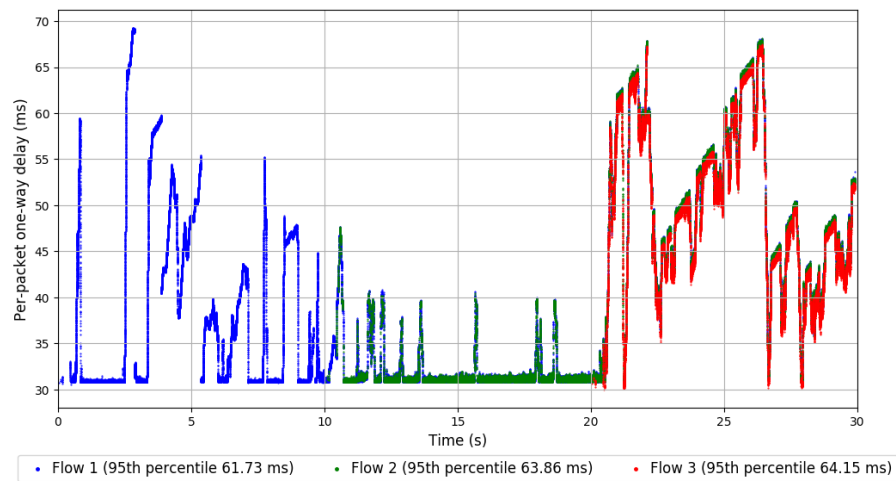
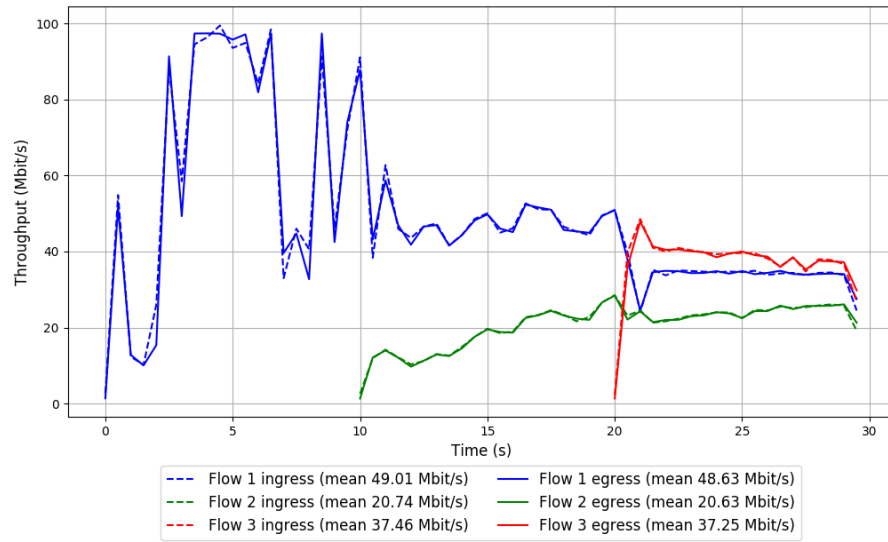
-- Flow 3:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 64.151 ms

Loss rate: 0.35%

## Run 6: Report of QUIC Cubic — Data Link

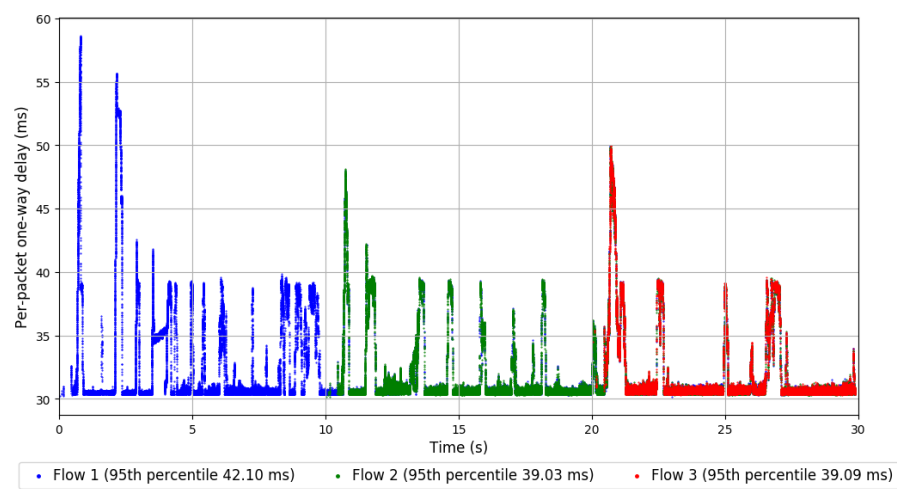
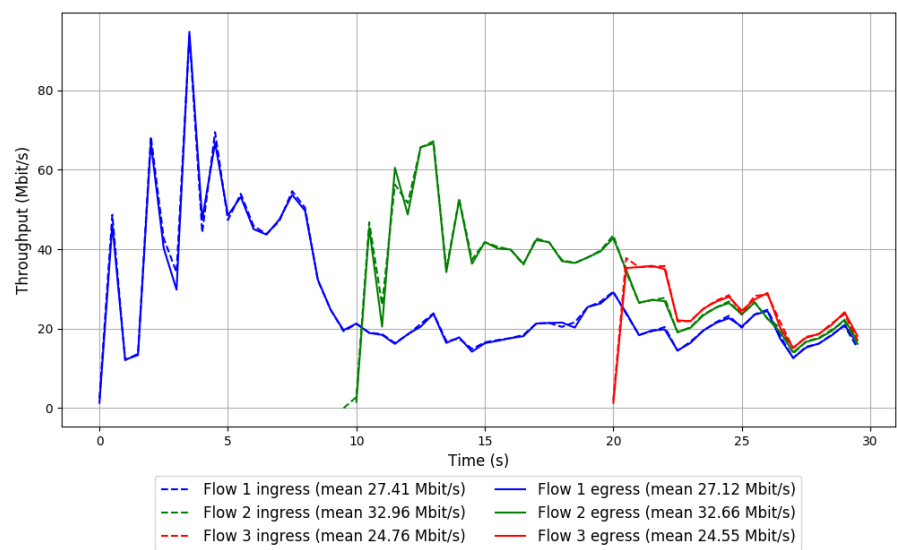


Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 17:40:44  
End at: 2018-02-16 17:41:14  
Local clock offset: 0.533 ms  
Remote clock offset: -4.115 ms

# Below is generated by plot.py at 2018-02-16 19:45:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.93 Mbit/s  
95th percentile per-packet one-way delay: 39.203 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 27.12 Mbit/s  
95th percentile per-packet one-way delay: 42.098 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 32.66 Mbit/s  
95th percentile per-packet one-way delay: 39.031 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 24.55 Mbit/s  
95th percentile per-packet one-way delay: 39.090 ms  
Loss rate: 0.88%

Run 7: Report of QUIC Cubic — Data Link



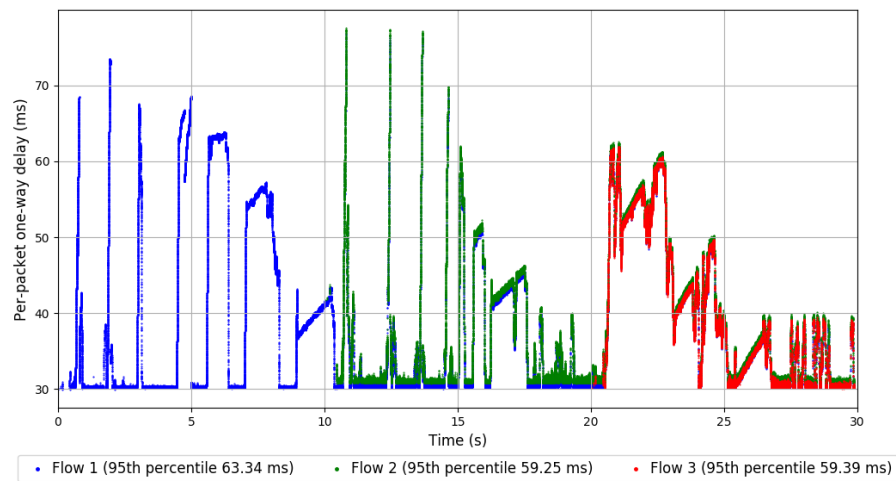
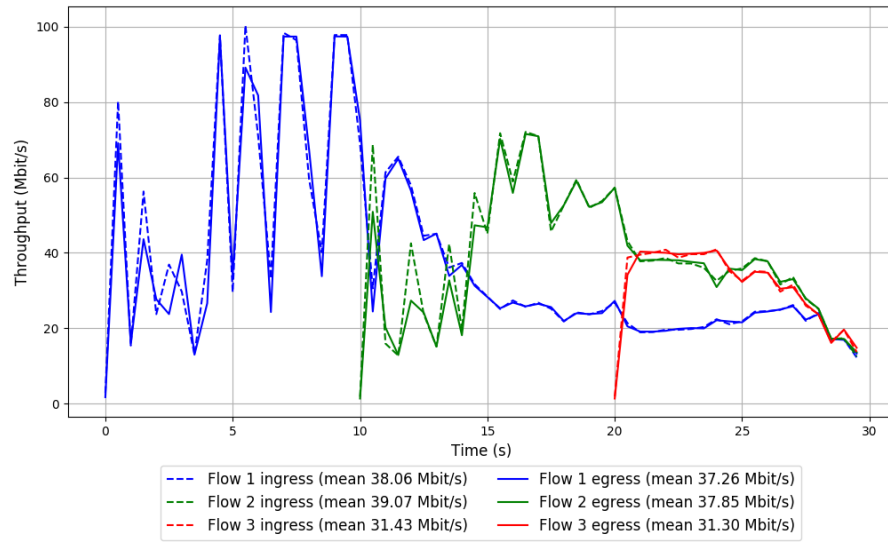
Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 18:07:36  
End at: 2018-02-16 18:08:06  
Local clock offset: 0.406 ms  
Remote clock offset: -2.189 ms

# Below is generated by plot.py at 2018-02-16 19:46:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.72 Mbit/s  
95th percentile per-packet one-way delay: 62.856 ms  
Loss rate: 2.24%  
-- Flow 1:  
Average throughput: 37.26 Mbit/s  
95th percentile per-packet one-way delay: 63.344 ms  
Loss rate: 2.11%  
-- Flow 2:  
Average throughput: 37.85 Mbit/s  
95th percentile per-packet one-way delay: 59.251 ms  
Loss rate: 3.17%  
-- Flow 3:  
Average throughput: 31.30 Mbit/s  
95th percentile per-packet one-way delay: 59.392 ms  
Loss rate: 0.42%



## Run 8: Report of QUIC Cubic — Data Link

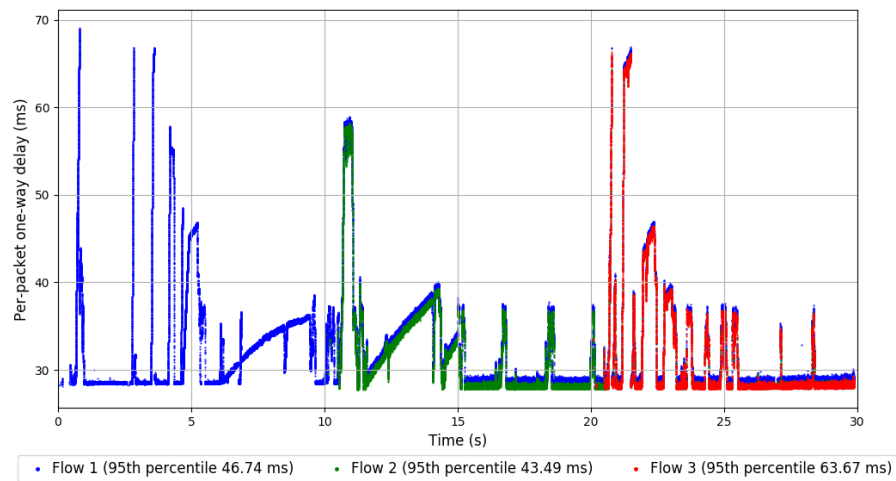
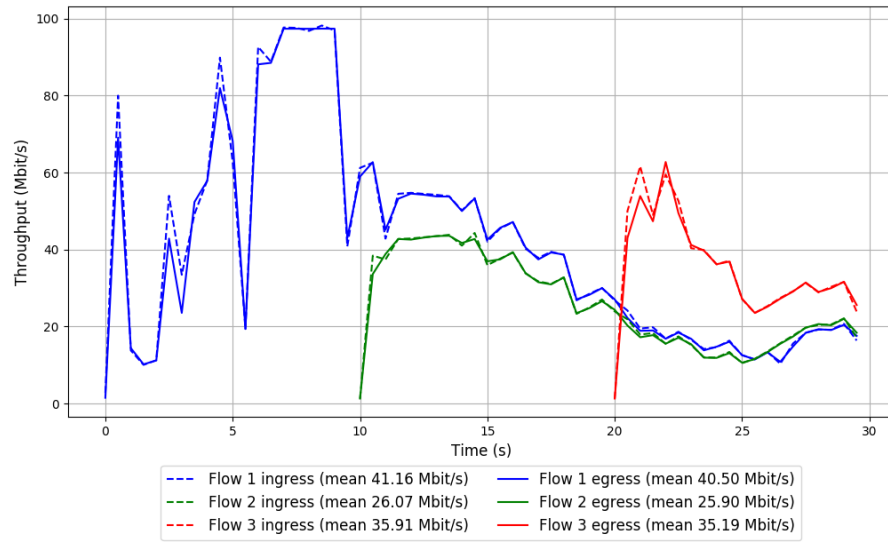


Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 18:33:26  
End at: 2018-02-16 18:33:56  
Local clock offset: -0.018 ms  
Remote clock offset: -3.356 ms

# Below is generated by plot.py at 2018-02-16 19:46:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.28 Mbit/s  
95th percentile per-packet one-way delay: 46.910 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 40.50 Mbit/s  
95th percentile per-packet one-way delay: 46.744 ms  
Loss rate: 1.61%  
-- Flow 2:  
Average throughput: 25.90 Mbit/s  
95th percentile per-packet one-way delay: 43.493 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 35.19 Mbit/s  
95th percentile per-packet one-way delay: 63.667 ms  
Loss rate: 2.05%

## Run 9: Report of QUIC Cubic — Data Link

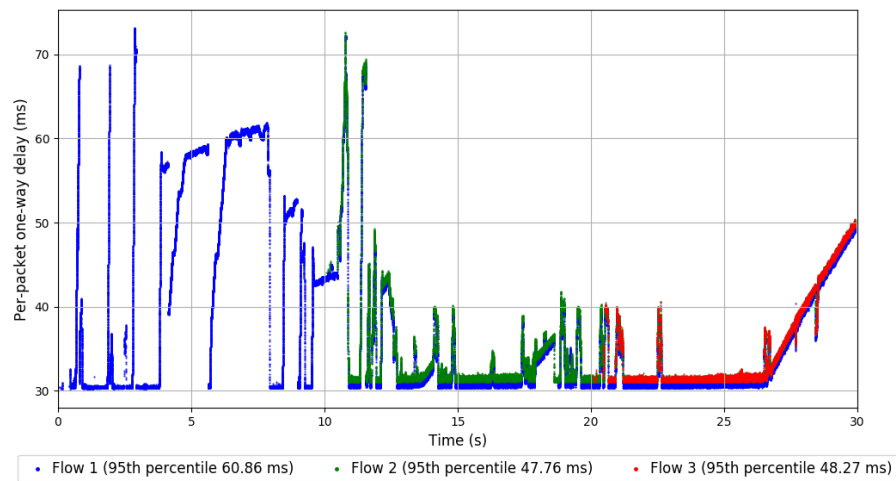
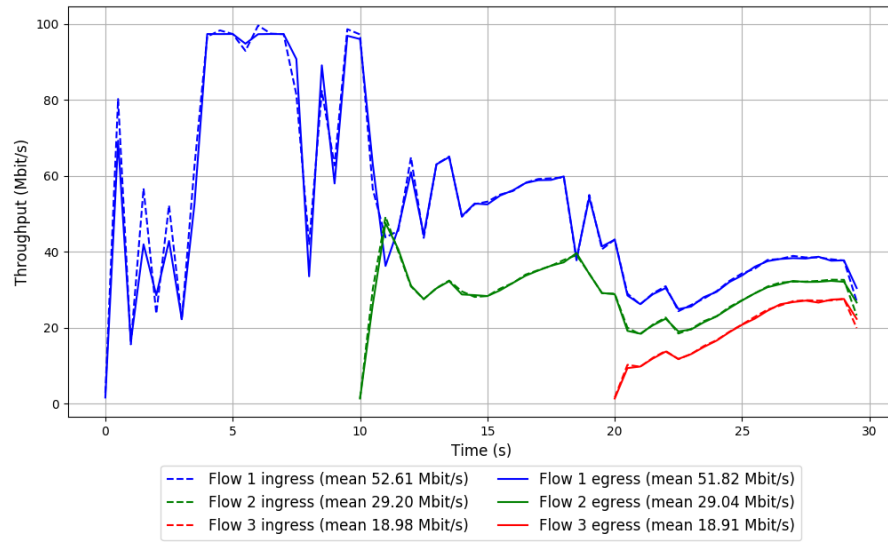


Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 18:58:45  
End at: 2018-02-16 18:59:15  
Local clock offset: 0.356 ms  
Remote clock offset: -5.556 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.35 Mbit/s  
95th percentile per-packet one-way delay: 60.523 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 51.82 Mbit/s  
95th percentile per-packet one-way delay: 60.859 ms  
Loss rate: 1.43%  
-- Flow 2:  
Average throughput: 29.04 Mbit/s  
95th percentile per-packet one-way delay: 47.758 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 18.91 Mbit/s  
95th percentile per-packet one-way delay: 48.271 ms  
Loss rate: 0.17%

# Run 10: Report of QUIC Cubic — Data Link

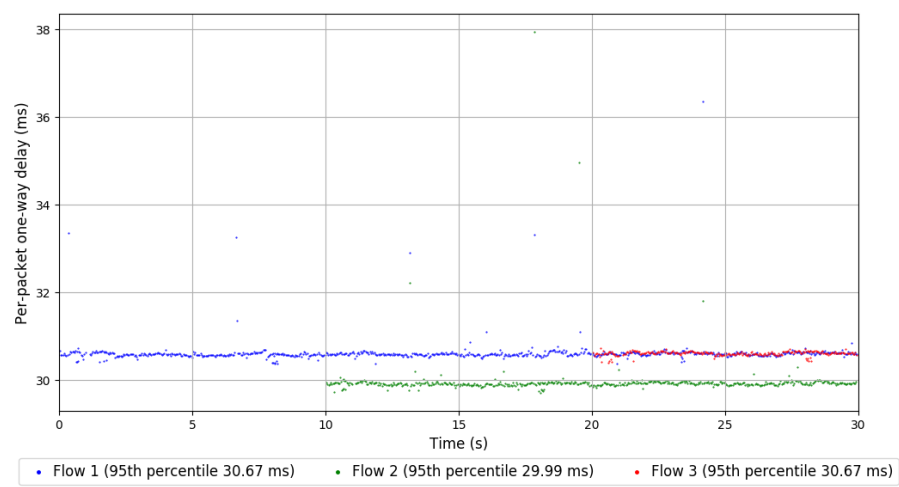
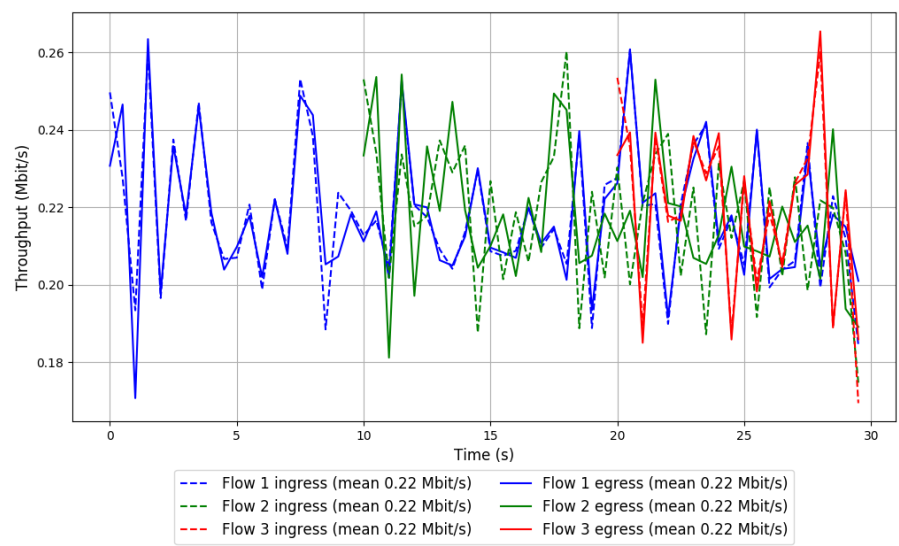


```
Run 1: Statistics of SReAM

Start at: 2018-02-16 14:52:47
End at: 2018-02-16 14:53:17
Local clock offset: 0.205 ms
Remote clock offset: -4.471 ms

# Below is generated by plot.py at 2018-02-16 19:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.659 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.669 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.988 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.667 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



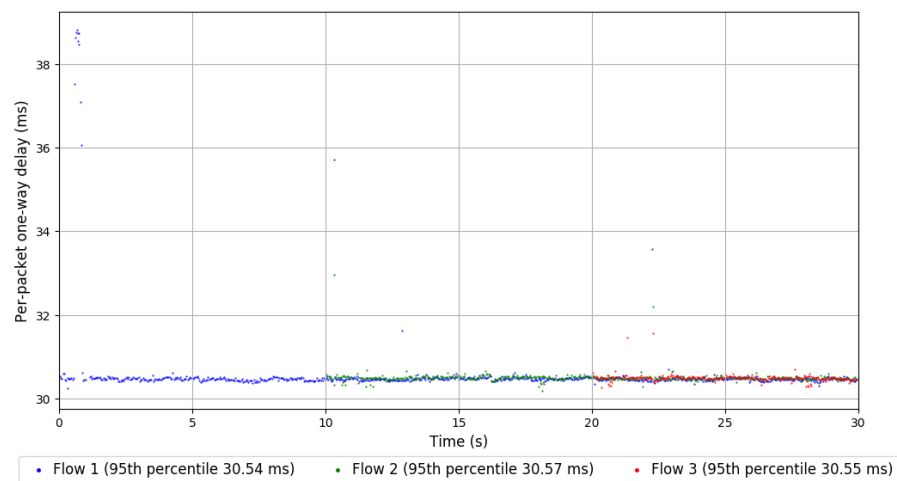
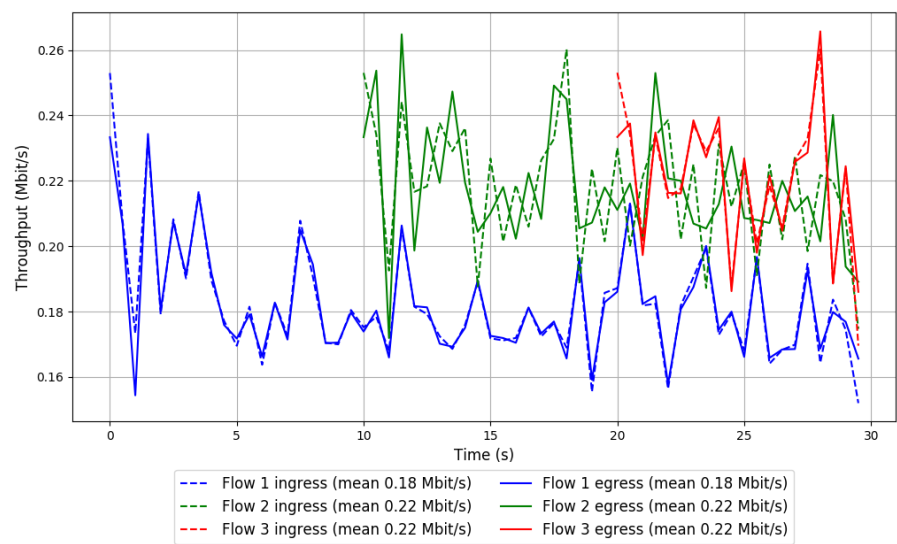
Run 2: Statistics of SReAM

Start at: 2018-02-16 15:19:22  
End at: 2018-02-16 15:19:52  
Local clock offset: 0.236 ms  
Remote clock offset: -4.914 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.40 Mbit/s  
95th percentile per-packet one-way delay: 30.558 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 30.540 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.566 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.553 ms  
Loss rate: 0.00%



Run 2: Report of SReAM — Data Link

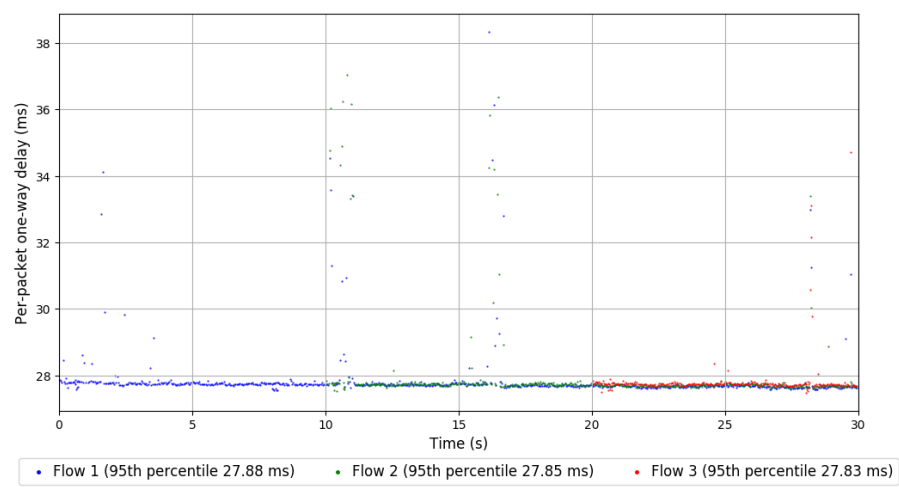
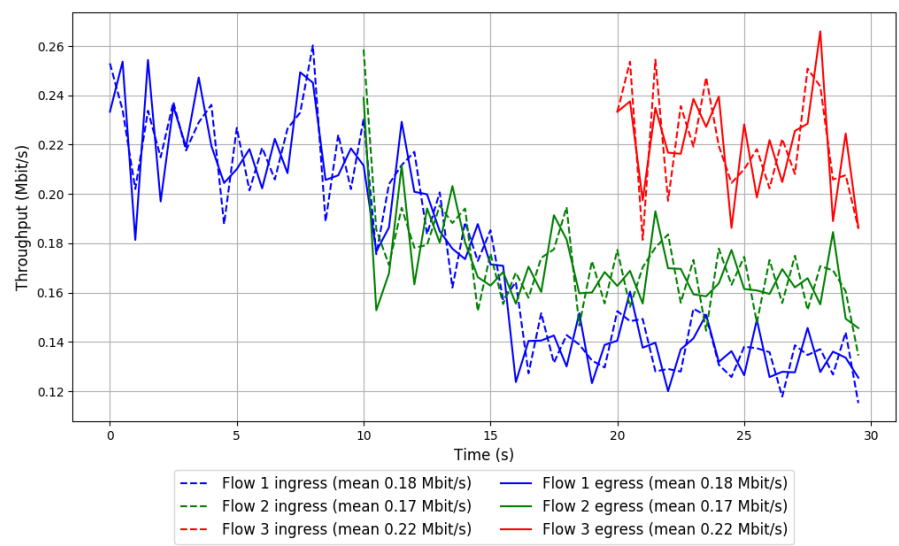


Run 3: Statistics of SReAM

Start at: 2018-02-16 15:45:16  
End at: 2018-02-16 15:45:46  
Local clock offset: -0.193 ms  
Remote clock offset: -7.194 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 27.859 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 27.876 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 27.850 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.829 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

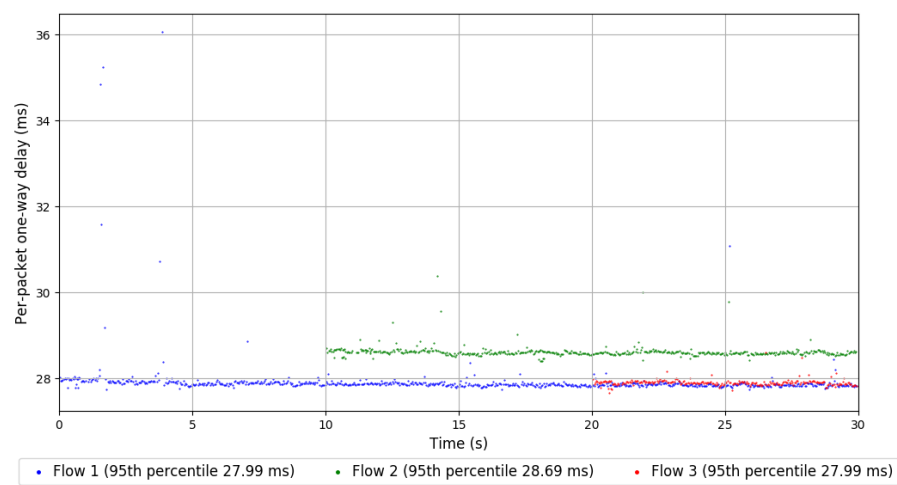
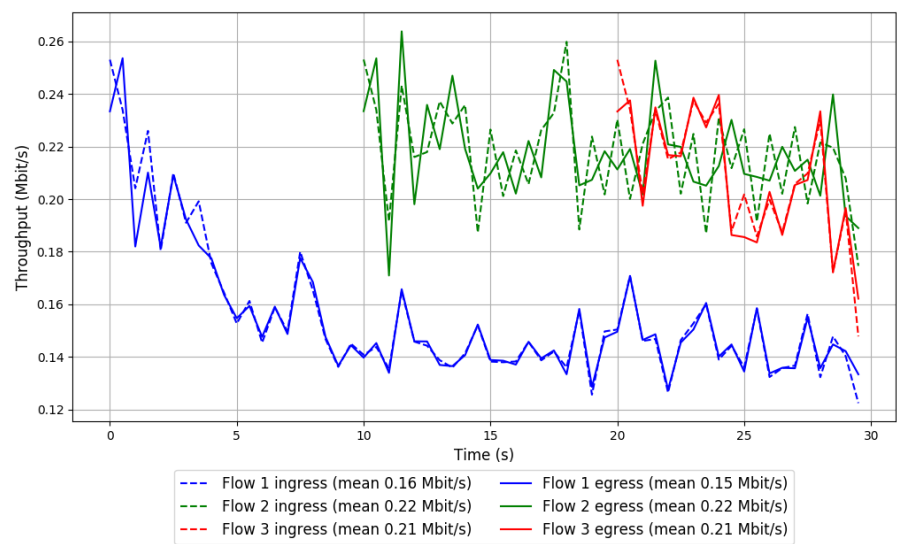


Run 4: Statistics of SCReAM

Start at: 2018-02-16 16:10:14  
End at: 2018-02-16 16:10:44  
Local clock offset: -0.477 ms  
Remote clock offset: -5.602 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 28.645 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 27.992 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 28.686 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 27.987 ms  
Loss rate: 0.45%

Run 4: Report of SReAM — Data Link

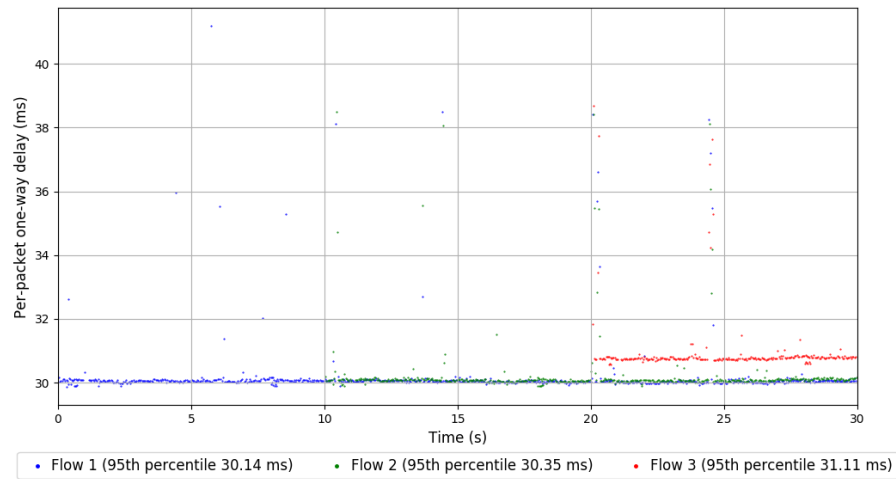
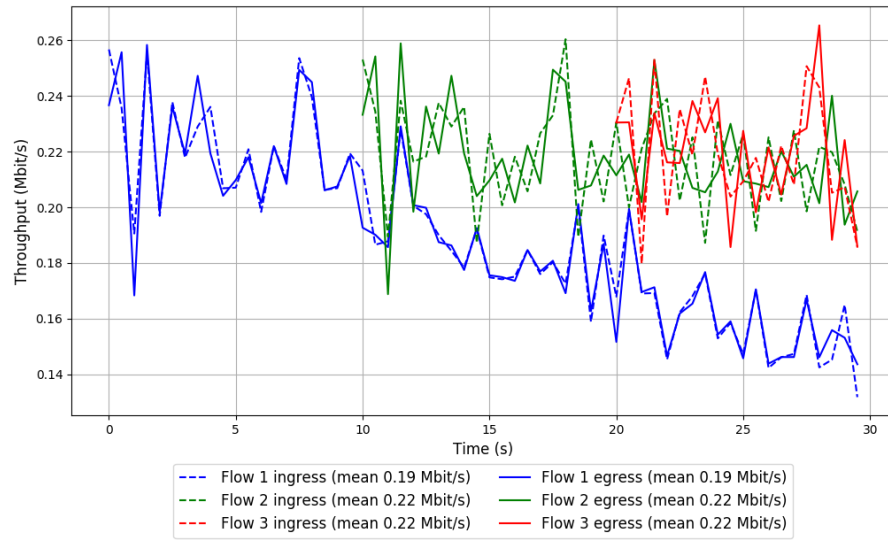


Run 5: Statistics of SReAM

Start at: 2018-02-16 16:36:30  
End at: 2018-02-16 16:37:00  
Local clock offset: -0.18 ms  
Remote clock offset: -4.059 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.41 Mbit/s  
95th percentile per-packet one-way delay: 30.810 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 30.144 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.351 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.107 ms  
Loss rate: 0.00%

## Run 5: Report of SReAM — Data Link



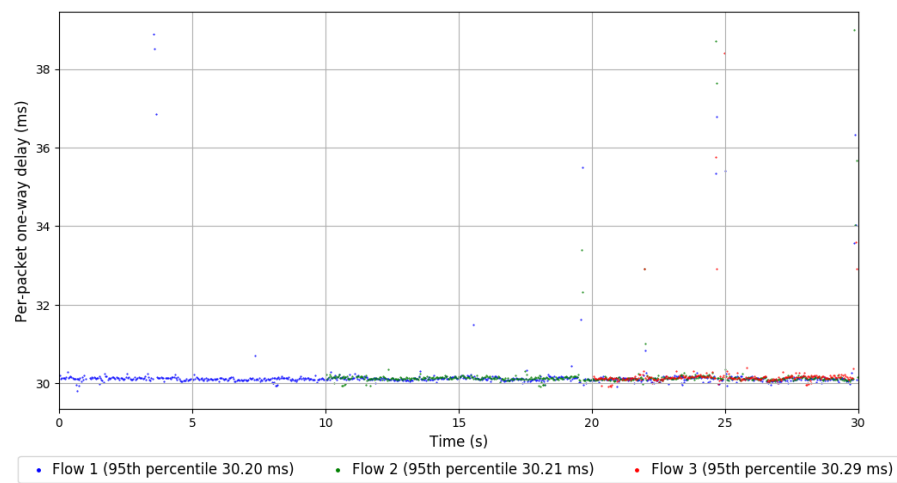
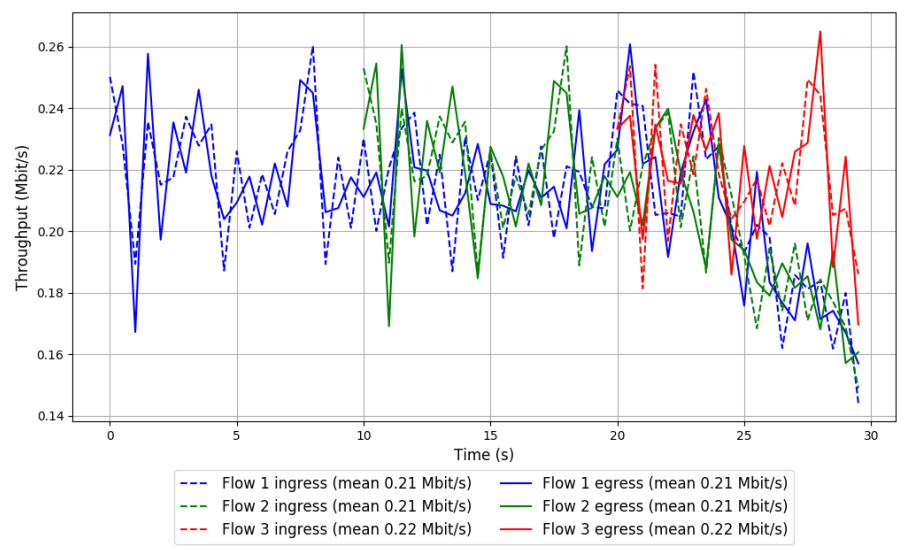
Run 6: Statistics of SCReAM

Start at: 2018-02-16 17:02:28  
End at: 2018-02-16 17:02:58  
Local clock offset: 0.398 ms  
Remote clock offset: -4.726 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 30.221 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.200 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.211 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.285 ms  
Loss rate: 0.37%



Run 6: Report of SReAM — Data Link

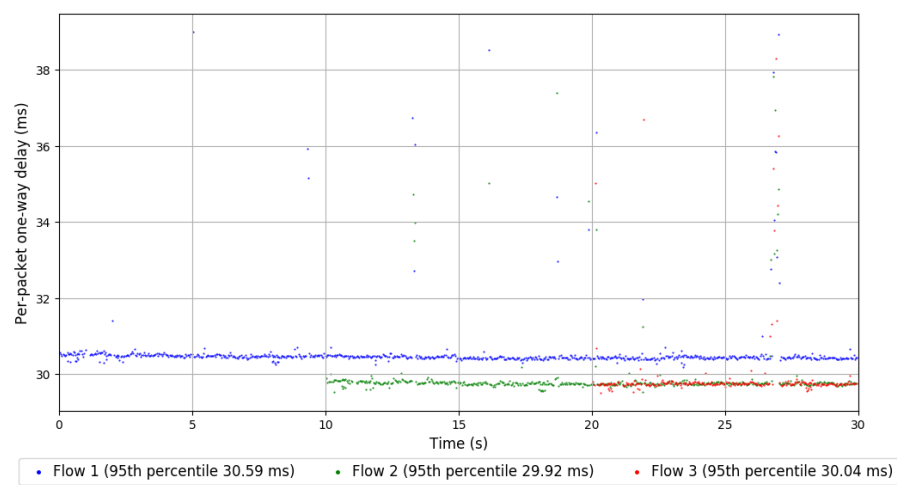
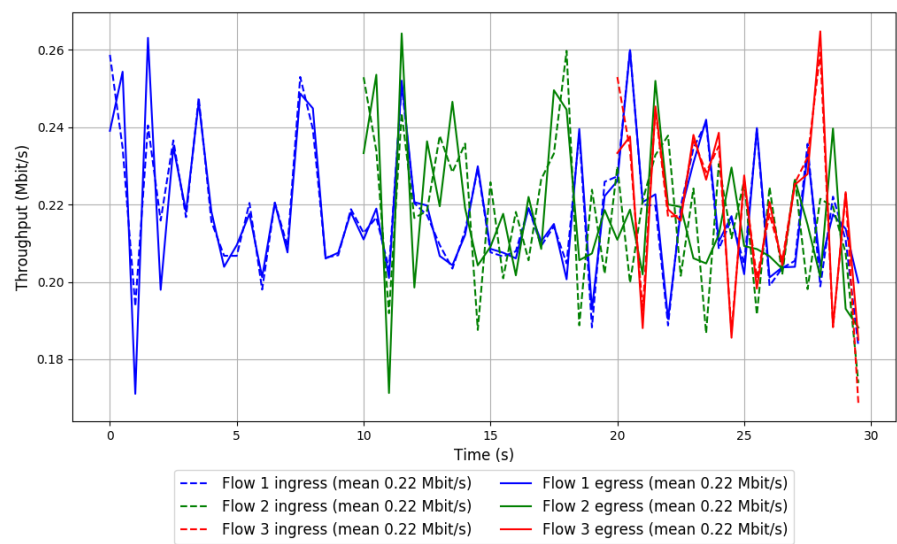


Run 7: Statistics of SReAM

Start at: 2018-02-16 17:31:39  
End at: 2018-02-16 17:32:09  
Local clock offset: 0.484 ms  
Remote clock offset: -4.951 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 30.563 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.594 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.923 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.042 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

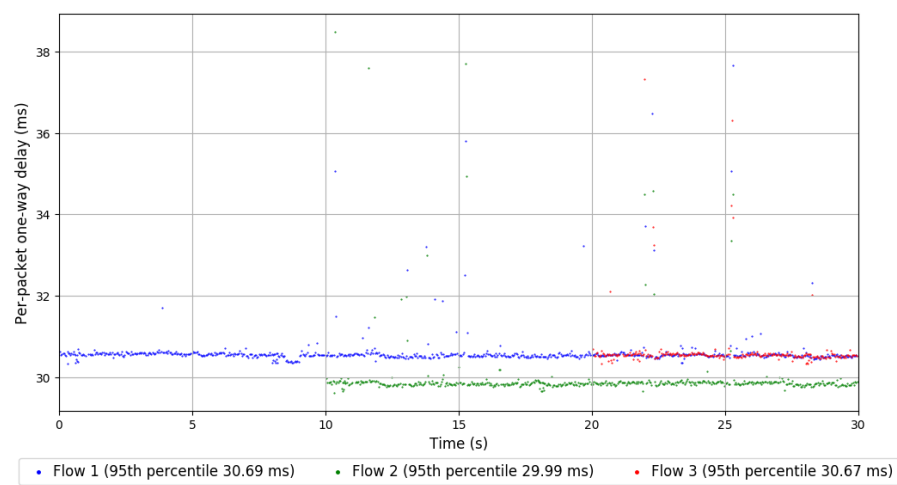
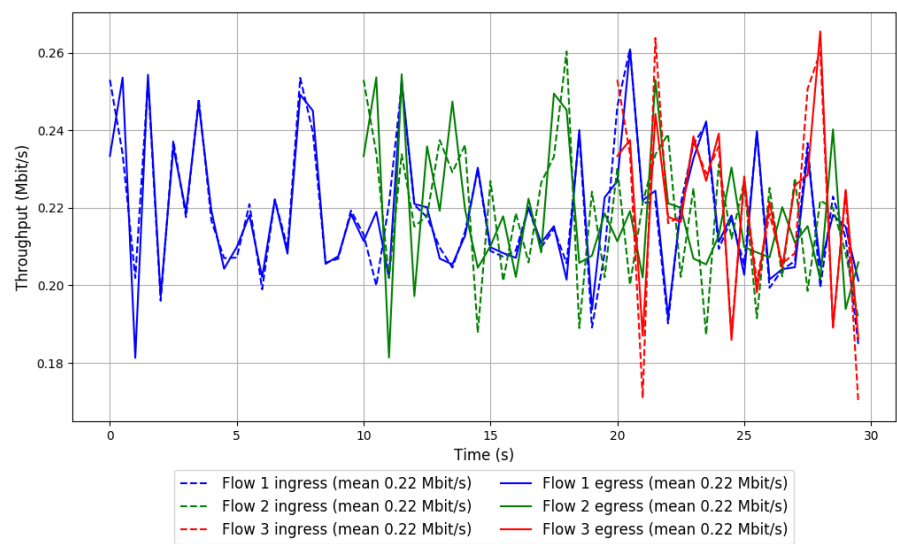


Run 8: Statistics of SReAM

Start at: 2018-02-16 17:59:03  
End at: 2018-02-16 17:59:33  
Local clock offset: 0.435 ms  
Remote clock offset: -3.026 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 30.656 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.691 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.994 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.673 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

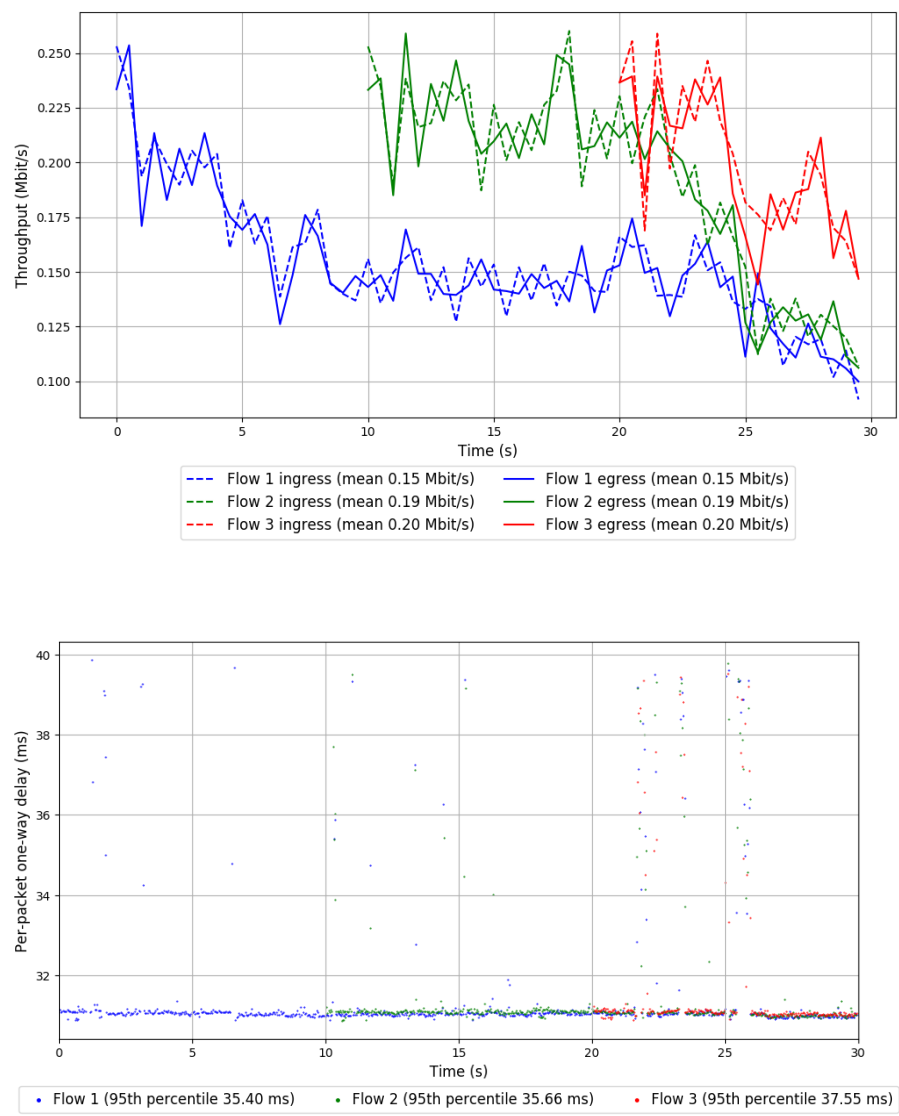


Run 9: Statistics of SReAM

Start at: 2018-02-16 18:25:19  
End at: 2018-02-16 18:25:49  
Local clock offset: -0.047 ms  
Remote clock offset: -1.065 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 36.066 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 35.404 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 35.659 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 37.545 ms  
Loss rate: 1.23%

Run 9: Report of SReAM — Data Link



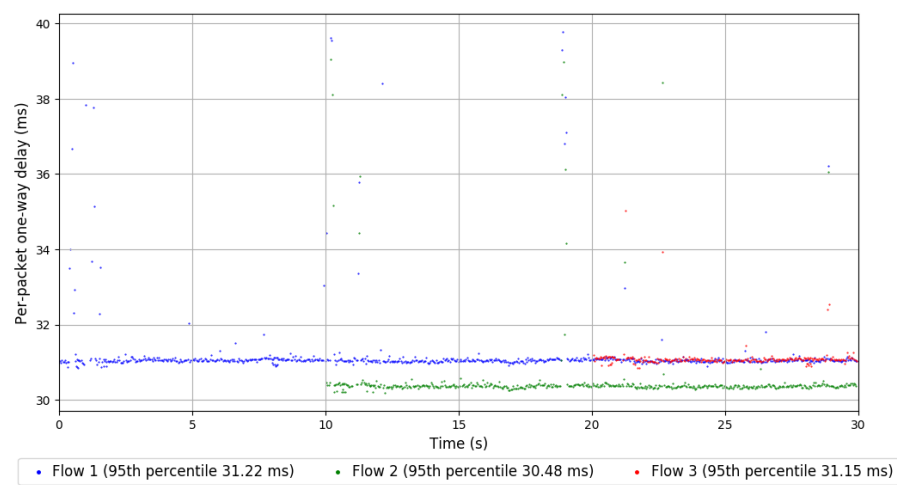
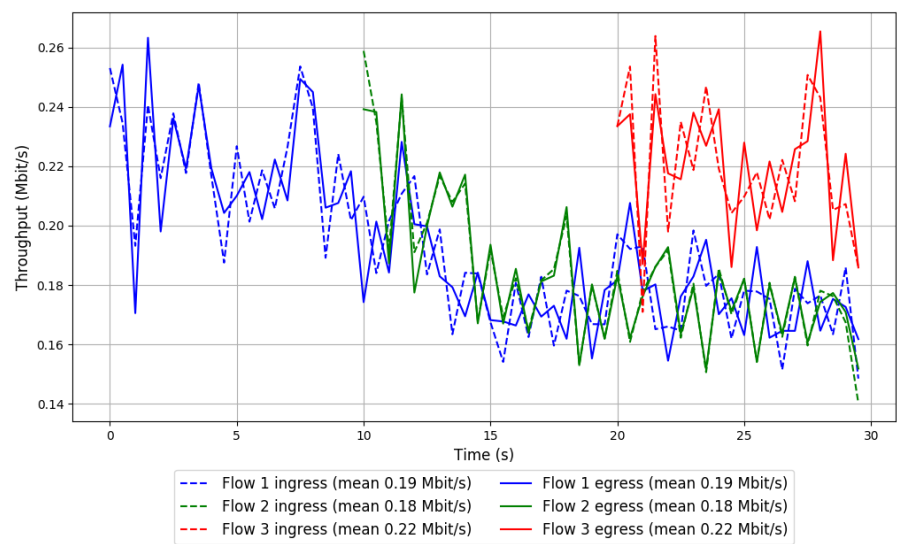
Run 10: Statistics of SReAM

Start at: 2018-02-16 18:50:36  
End at: 2018-02-16 18:51:06  
Local clock offset: 0.028 ms  
Remote clock offset: -4.764 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 31.155 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 31.223 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 30.480 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.152 ms  
Loss rate: 0.00%



Run 10: Report of SCReAM — Data Link

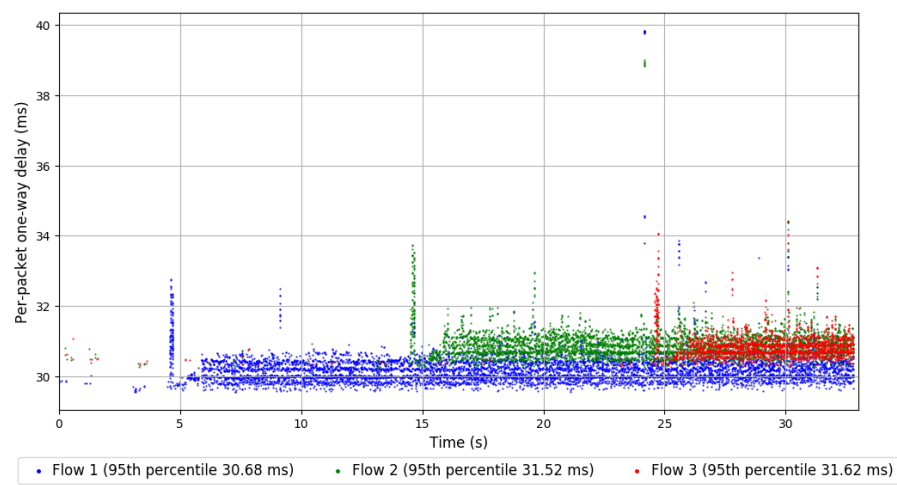
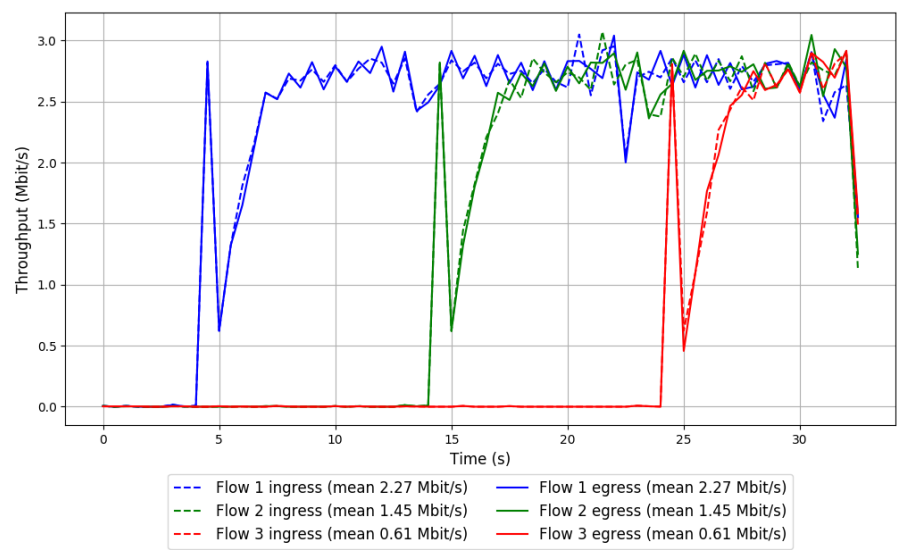


Run 1: Statistics of WebRTC media

Start at: 2018-02-16 14:57:07  
End at: 2018-02-16 14:57:37  
Local clock offset: 0.28 ms  
Remote clock offset: -4.416 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 31.320 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.27 Mbit/s  
95th percentile per-packet one-way delay: 30.680 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 31.517 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 31.617 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

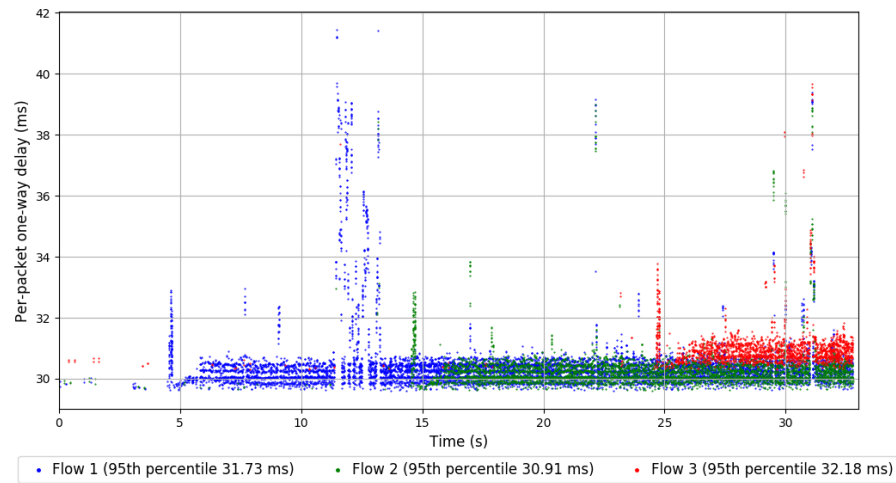
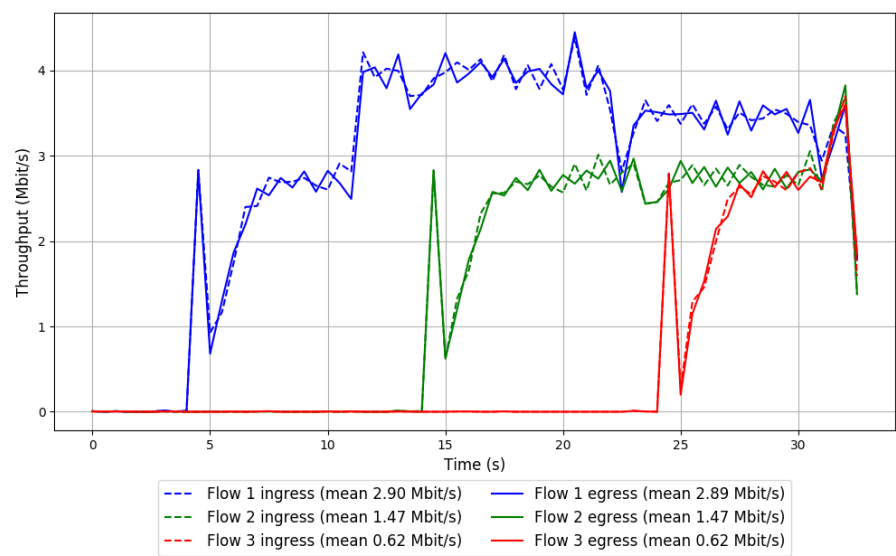


Run 2: Statistics of WebRTC media

Start at: 2018-02-16 15:23:43  
End at: 2018-02-16 15:24:13  
Local clock offset: 0.256 ms  
Remote clock offset: -5.527 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.96 Mbit/s  
95th percentile per-packet one-way delay: 31.580 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 2.89 Mbit/s  
95th percentile per-packet one-way delay: 31.733 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 30.914 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 32.180 ms  
Loss rate: 0.05%

Run 2: Report of WebRTC media — Data Link

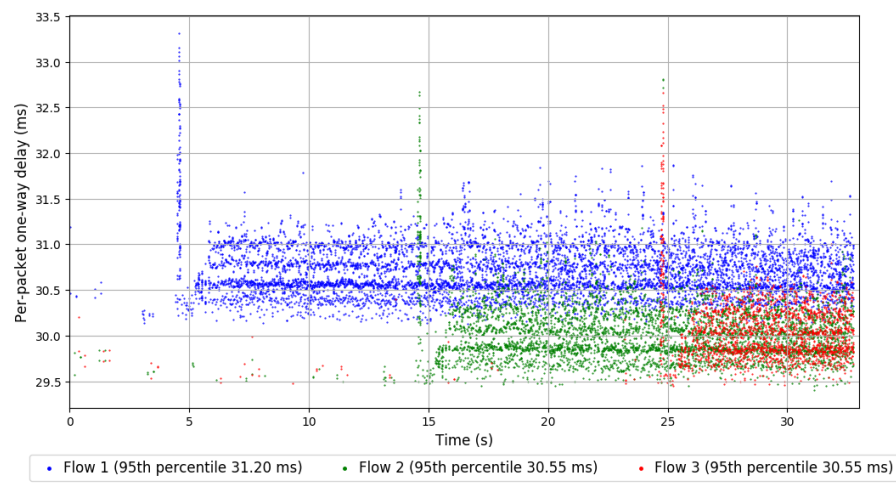
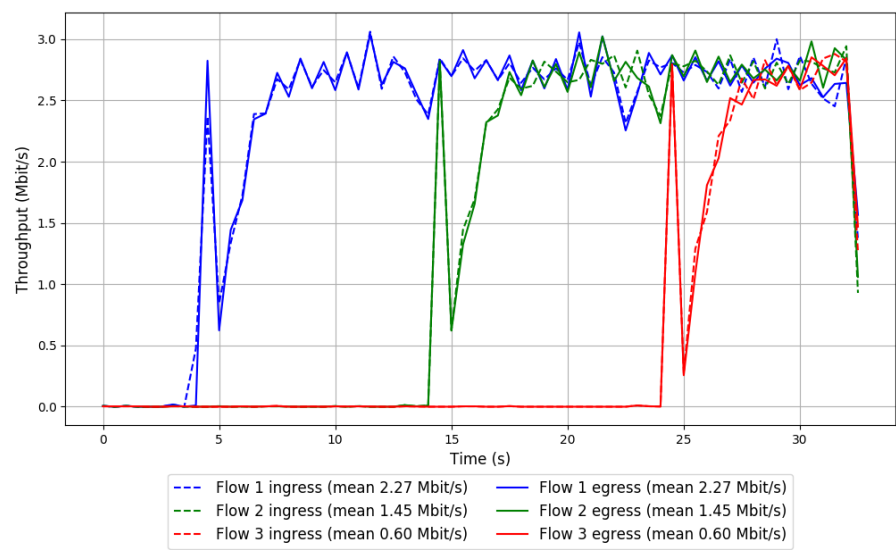


Run 3: Statistics of WebRTC media

Start at: 2018-02-16 15:49:18  
End at: 2018-02-16 15:49:48  
Local clock offset: -0.215 ms  
Remote clock offset: -4.713 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 31.101 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.27 Mbit/s  
95th percentile per-packet one-way delay: 31.203 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 30.553 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 30.550 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



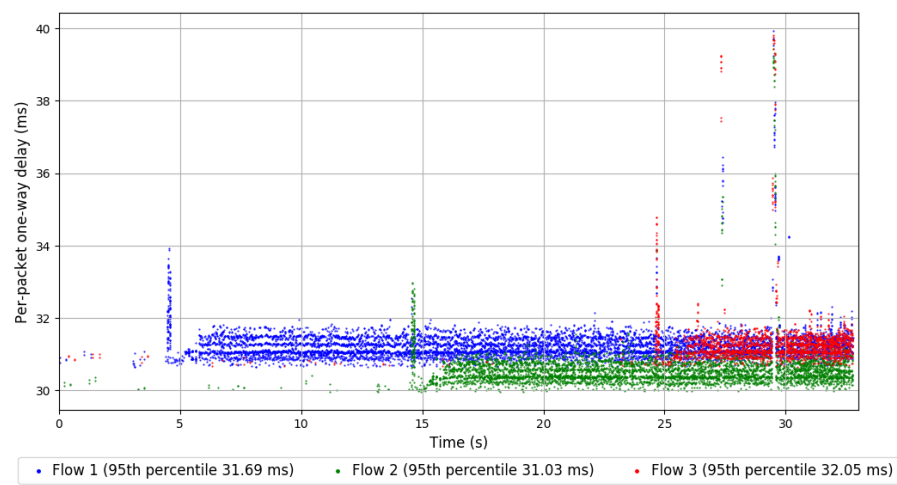
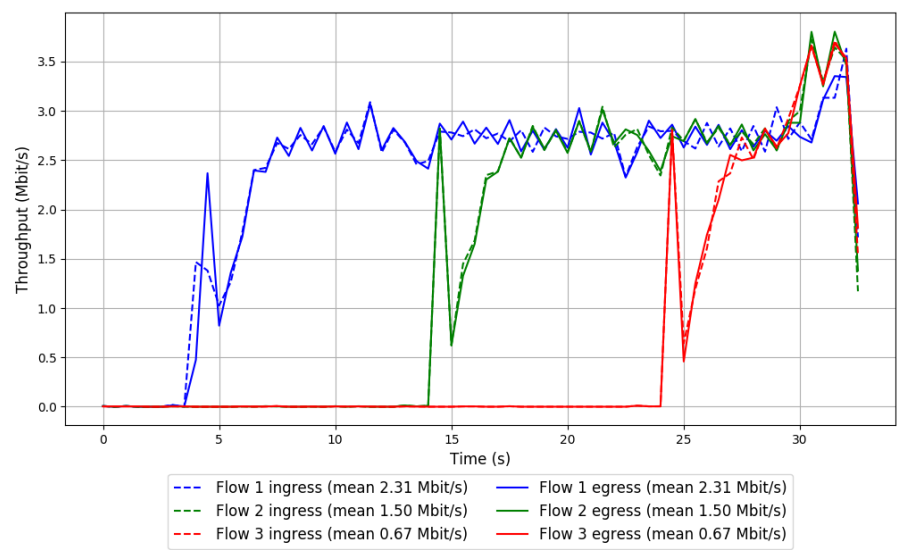
Run 4: Statistics of WebRTC media

Start at: 2018-02-16 16:14:22  
End at: 2018-02-16 16:14:52  
Local clock offset: -0.38 ms  
Remote clock offset: -2.942 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.47 Mbit/s  
95th percentile per-packet one-way delay: 31.666 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 31.691 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 31.026 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 0.67 Mbit/s  
95th percentile per-packet one-way delay: 32.051 ms  
Loss rate: 0.17%



Run 4: Report of WebRTC media — Data Link

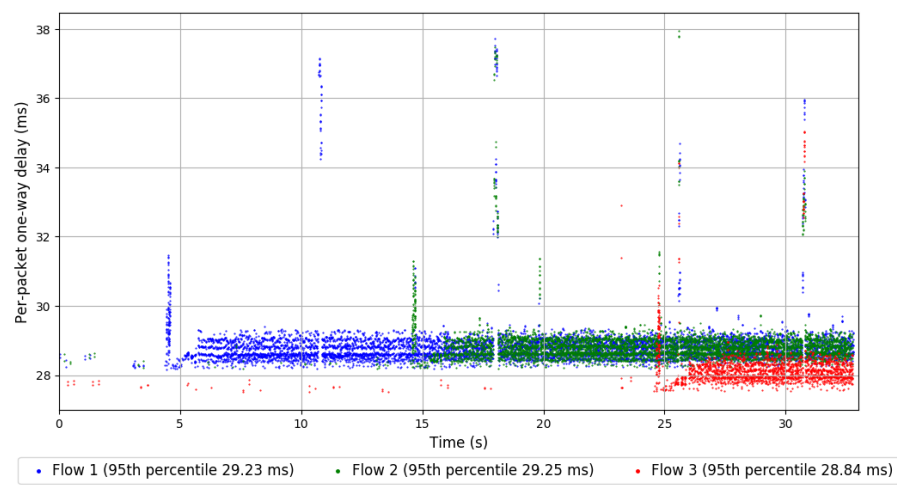
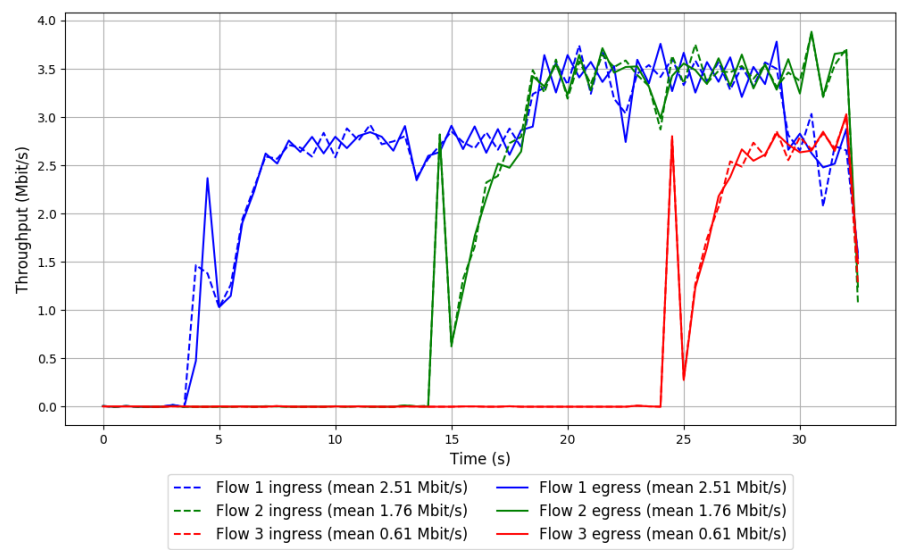


Run 5: Statistics of WebRTC media

Start at: 2018-02-16 16:40:37  
End at: 2018-02-16 16:41:07  
Local clock offset: 0.042 ms  
Remote clock offset: -6.313 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.86 Mbit/s  
95th percentile per-packet one-way delay: 29.233 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 29.230 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 1.76 Mbit/s  
95th percentile per-packet one-way delay: 29.255 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 28.842 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

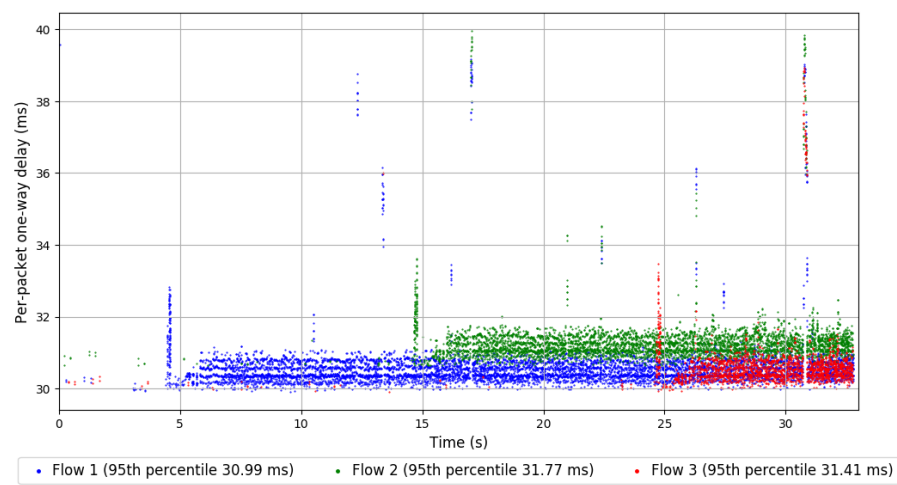
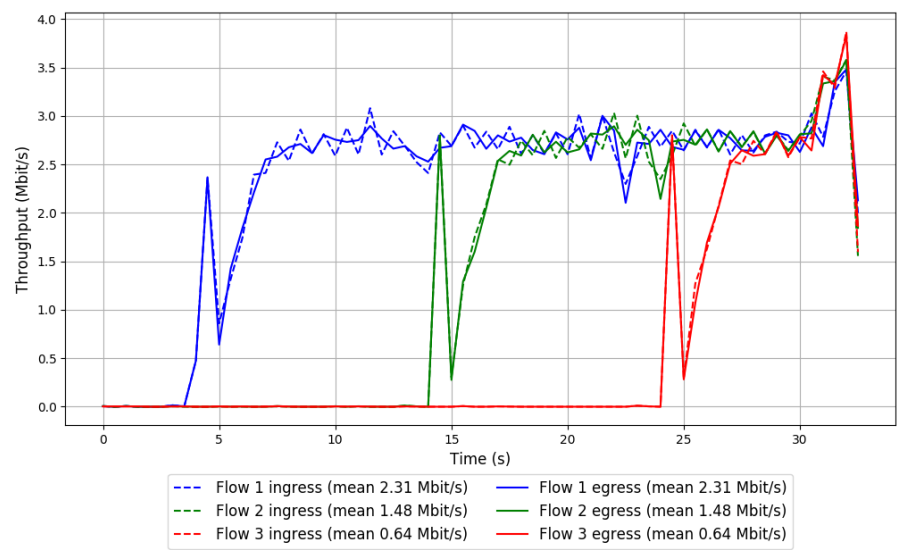


Run 6: Statistics of WebRTC media

Start at: 2018-02-16 17:06:57  
End at: 2018-02-16 17:07:27  
Local clock offset: 0.517 ms  
Remote clock offset: -4.667 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.41 Mbit/s  
95th percentile per-packet one-way delay: 31.617 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 30.993 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 31.773 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 31.406 ms  
Loss rate: 0.27%

Run 6: Report of WebRTC media — Data Link

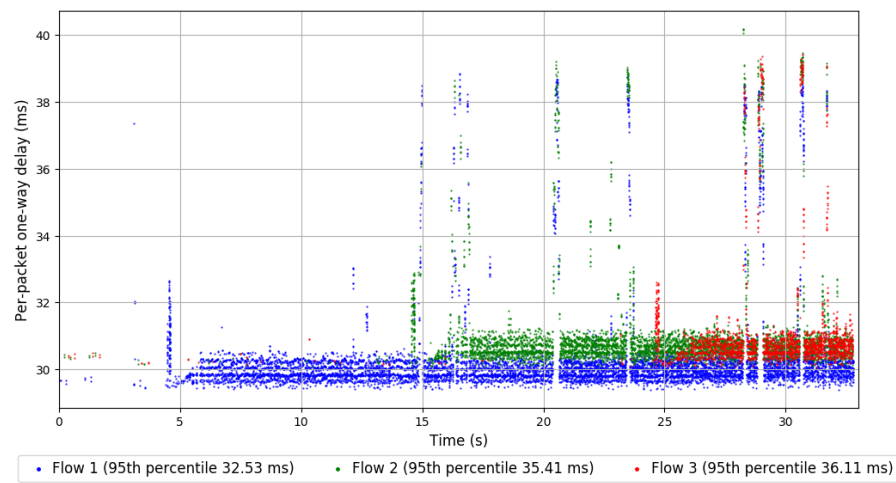
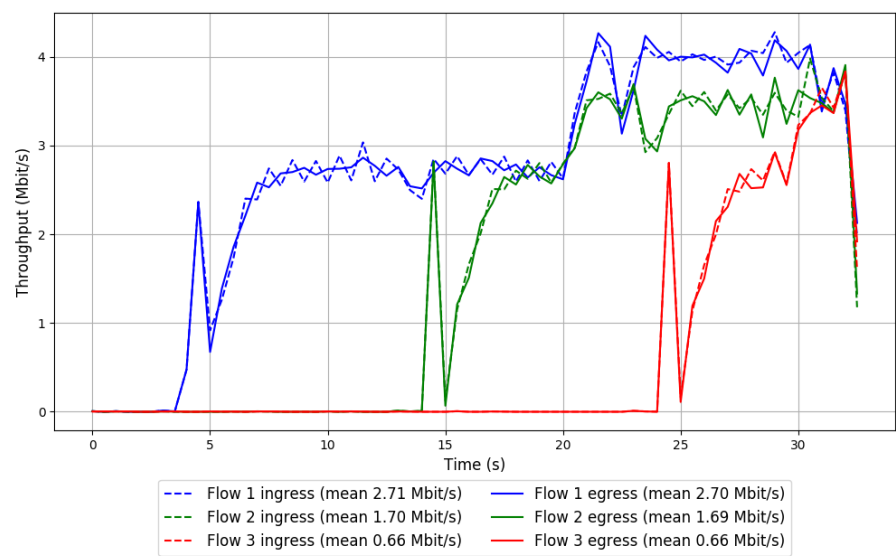


Run 7: Statistics of WebRTC media

Start at: 2018-02-16 17:36:25  
End at: 2018-02-16 17:36:55  
Local clock offset: 0.52 ms  
Remote clock offset: -4.452 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.03 Mbit/s  
95th percentile per-packet one-way delay: 34.406 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 2.70 Mbit/s  
95th percentile per-packet one-way delay: 32.528 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 1.69 Mbit/s  
95th percentile per-packet one-way delay: 35.407 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 36.108 ms  
Loss rate: 0.72%

Run 7: Report of WebRTC media — Data Link



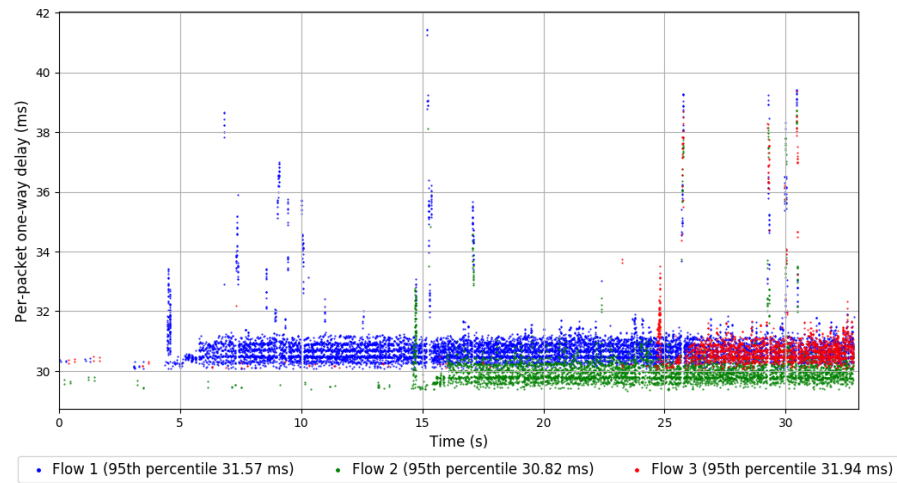
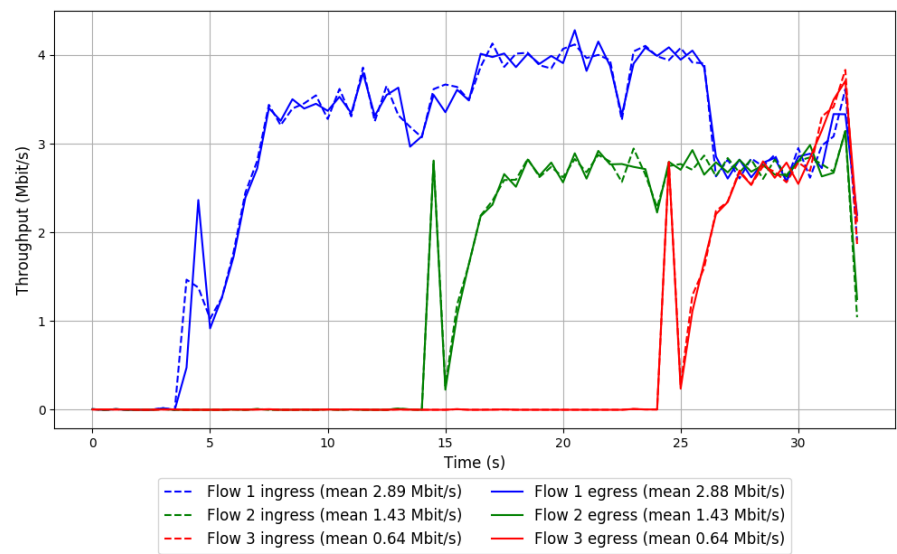
Run 8: Statistics of WebRTC media

Start at: 2018-02-16 18:03:18  
End at: 2018-02-16 18:03:48  
Local clock offset: 0.439 ms  
Remote clock offset: -2.887 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.94 Mbit/s  
95th percentile per-packet one-way delay: 31.498 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 2.88 Mbit/s  
95th percentile per-packet one-way delay: 31.573 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 30.817 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 31.938 ms  
Loss rate: 0.09%



Run 8: Report of WebRTC media — Data Link

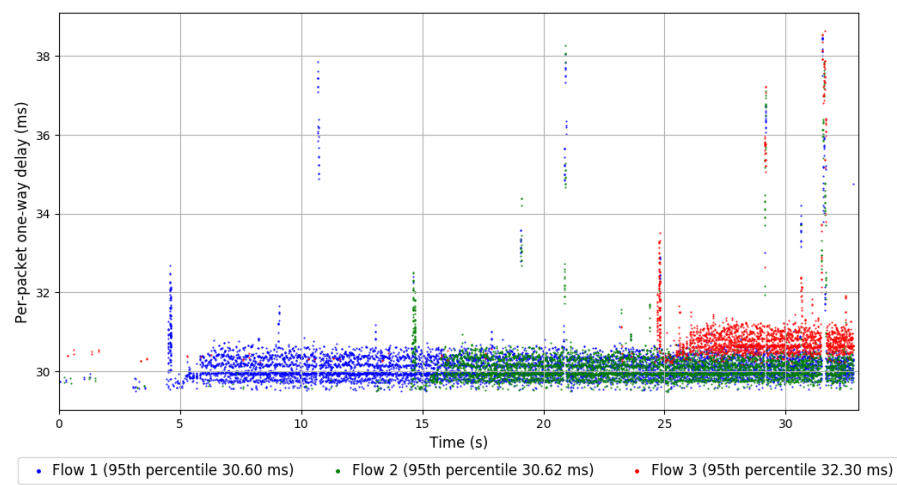
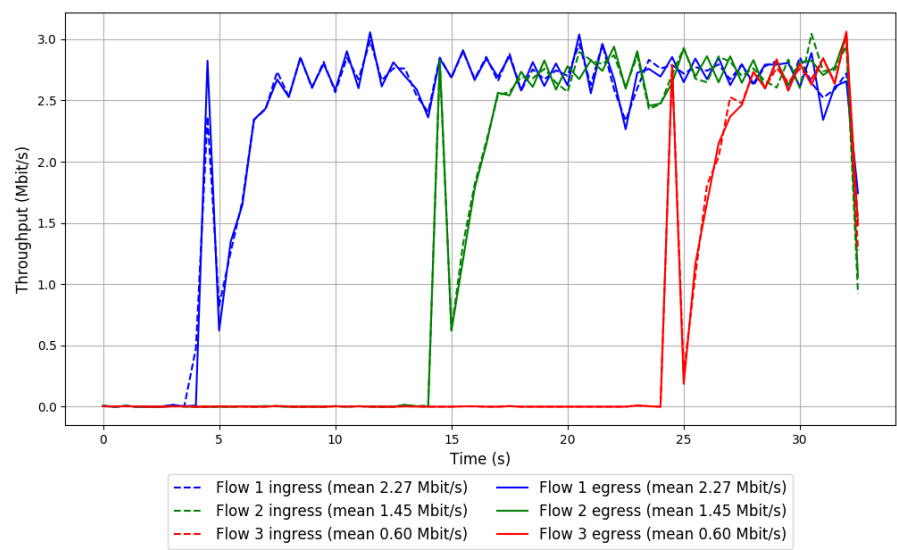


Run 9: Statistics of WebRTC media

Start at: 2018-02-16 18:29:24  
End at: 2018-02-16 18:29:54  
Local clock offset: -0.061 ms  
Remote clock offset: -1.363 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.30 Mbit/s  
95th percentile per-packet one-way delay: 31.070 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.27 Mbit/s  
95th percentile per-packet one-way delay: 30.601 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 30.624 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 32.302 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

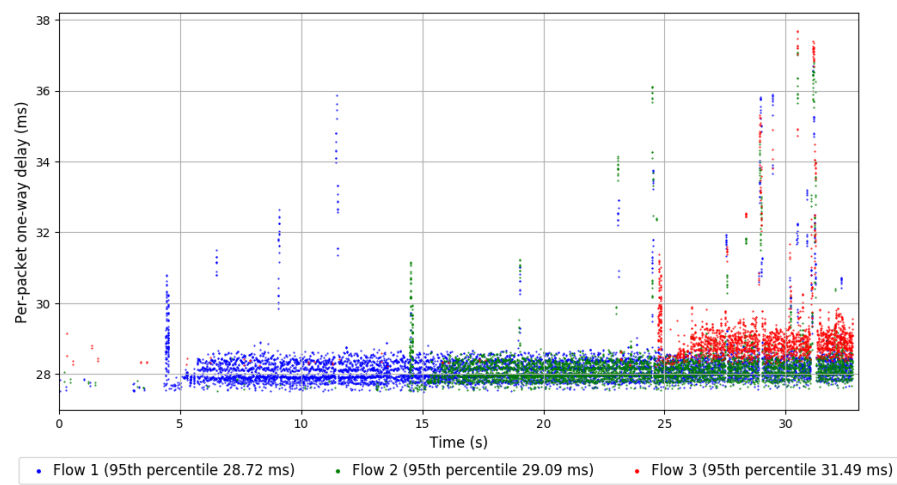
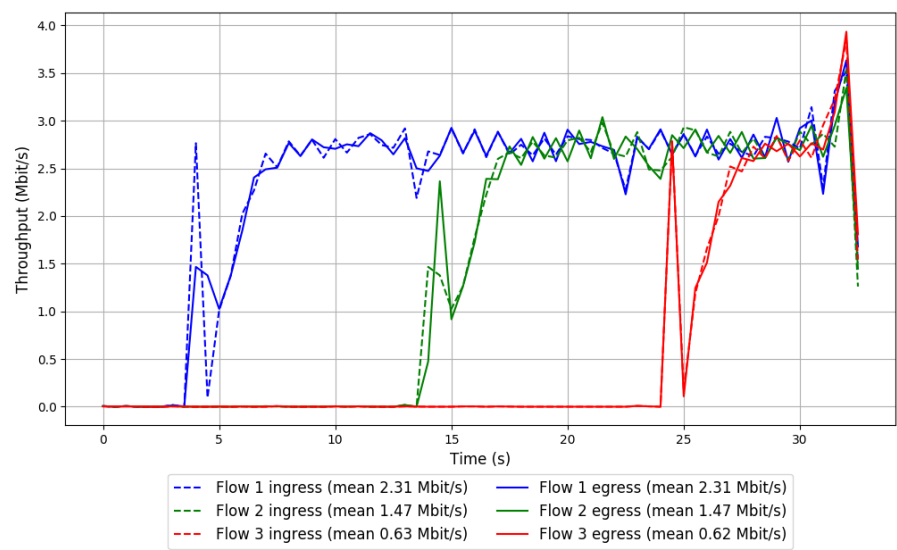


Run 10: Statistics of WebRTC media

Start at: 2018-02-16 18:54:41  
End at: 2018-02-16 18:55:11  
Local clock offset: 0.247 ms  
Remote clock offset: -7.683 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.39 Mbit/s  
95th percentile per-packet one-way delay: 29.538 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 28.720 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 29.089 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 31.486 ms  
Loss rate: 0.23%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-16 15:09:09

End at: 2018-02-16 15:09:39

Local clock offset: 0.308 ms

Remote clock offset: -4.9 ms

# Below is generated by plot.py at 2018-02-16 19:46:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 30.74 Mbit/s

95th percentile per-packet one-way delay: 34.368 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 33.985 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 34.651 ms

Loss rate: 0.13%

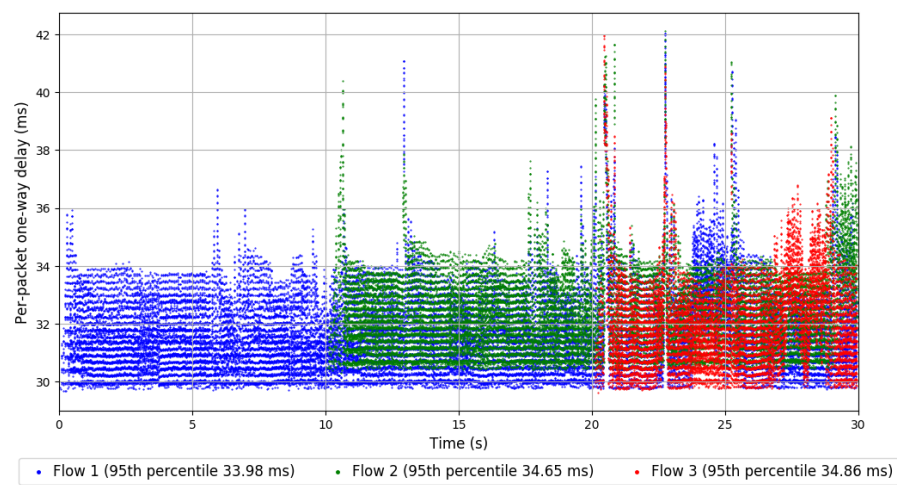
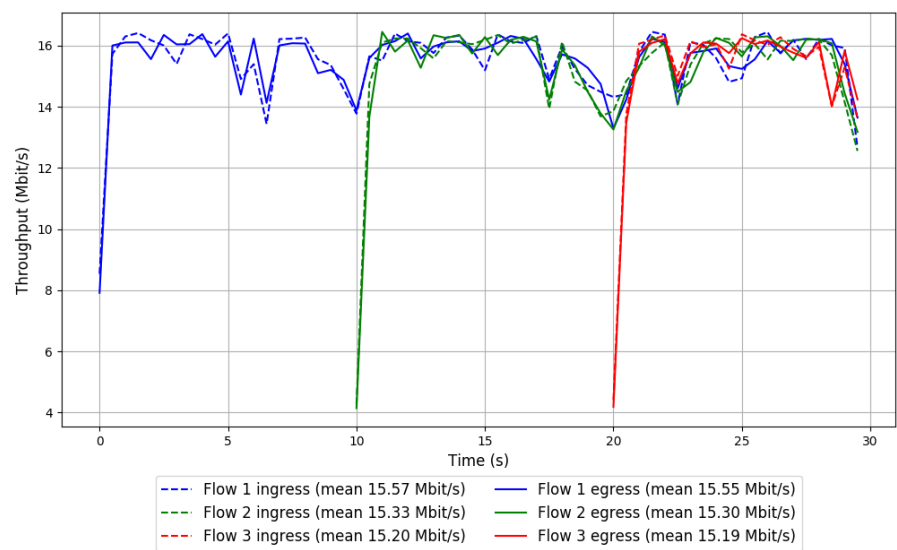
-- Flow 3:

Average throughput: 15.19 Mbit/s

95th percentile per-packet one-way delay: 34.858 ms

Loss rate: 0.08%

Run 1: Report of Sprout — Data Link



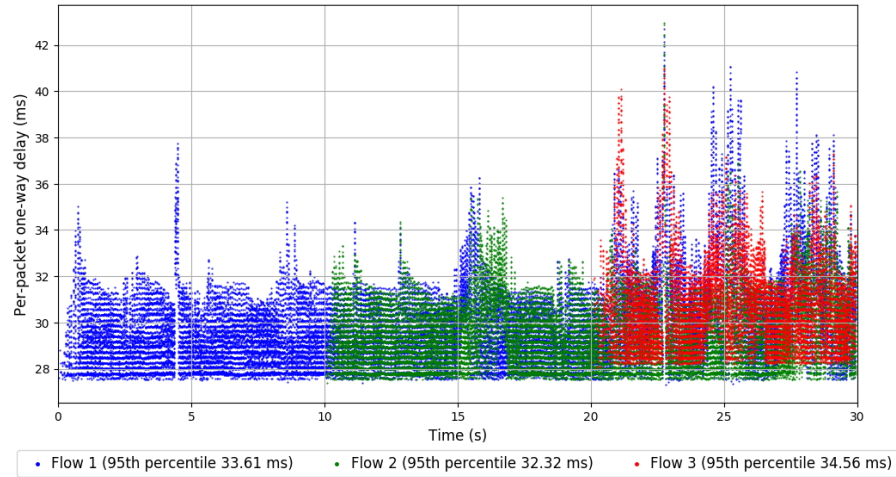
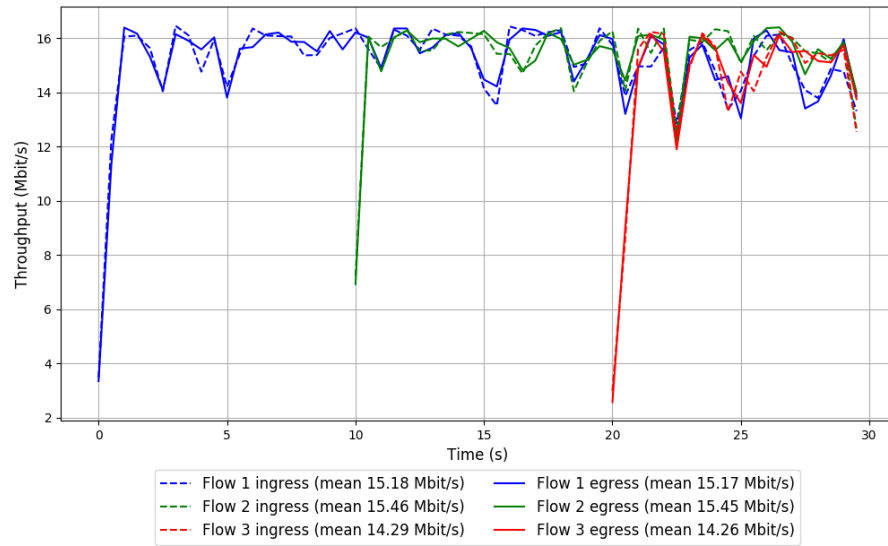
Run 2: Statistics of Sprout

Start at: 2018-02-16 15:35:19  
End at: 2018-02-16 15:35:49  
Local clock offset: -0.08 ms  
Remote clock offset: -7.781 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 30.16 Mbit/s  
95th percentile per-packet one-way delay: 33.397 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 15.17 Mbit/s  
95th percentile per-packet one-way delay: 33.612 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 15.45 Mbit/s  
95th percentile per-packet one-way delay: 32.318 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 14.26 Mbit/s  
95th percentile per-packet one-way delay: 34.564 ms  
Loss rate: 0.16%



## Run 2: Report of Sprout — Data Link

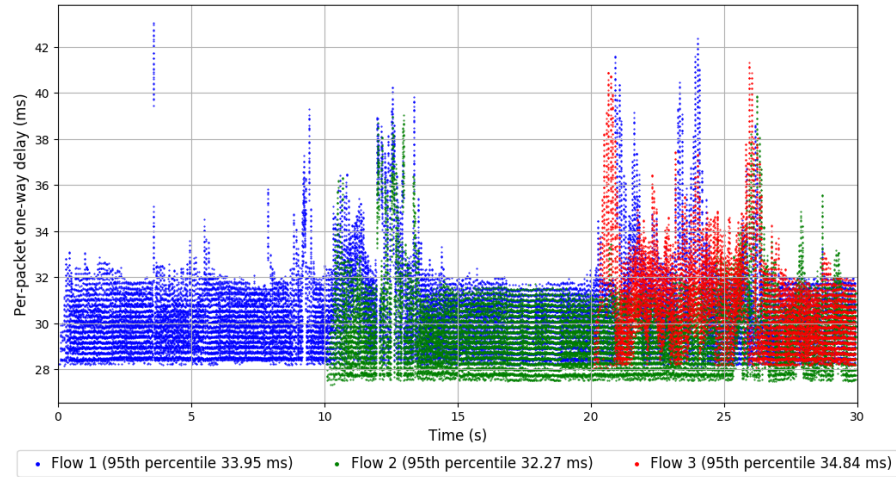
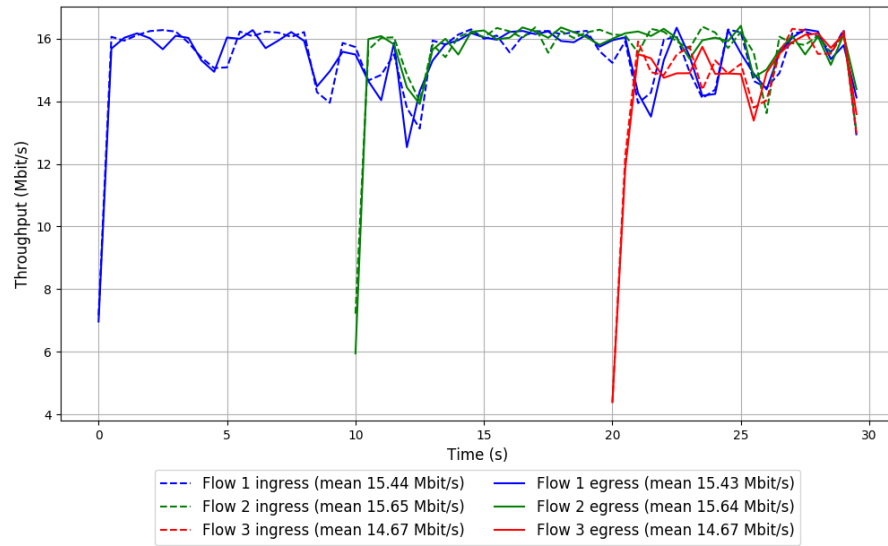


### Run 3: Statistics of Sprout

Start at: 2018-02-16 16:00:24  
End at: 2018-02-16 16:00:54  
Local clock offset: -0.281 ms  
Remote clock offset: -6.051 ms

```
# Below is generated by plot.py at 2018-02-16 19:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.67 Mbit/s
95th percentile per-packet one-way delay: 33.742 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 15.43 Mbit/s
95th percentile per-packet one-way delay: 33.951 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 32.269 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 34.837 ms
Loss rate: 0.00%
```

### Run 3: Report of Sprout — Data Link

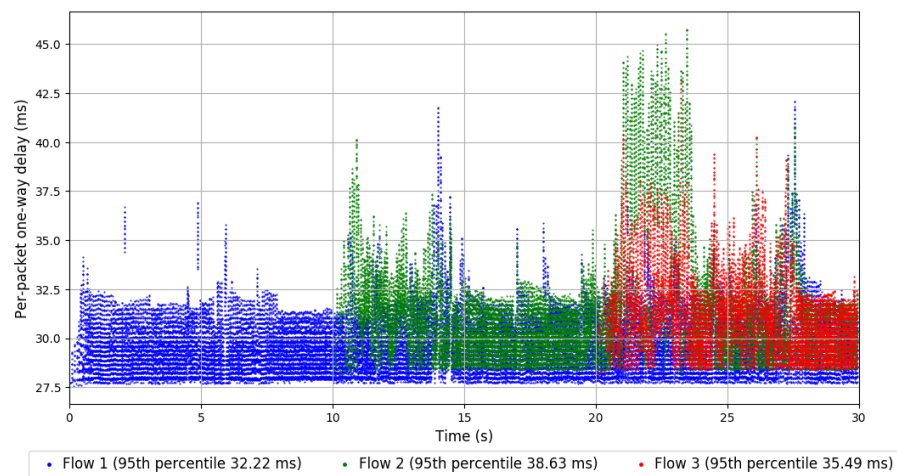
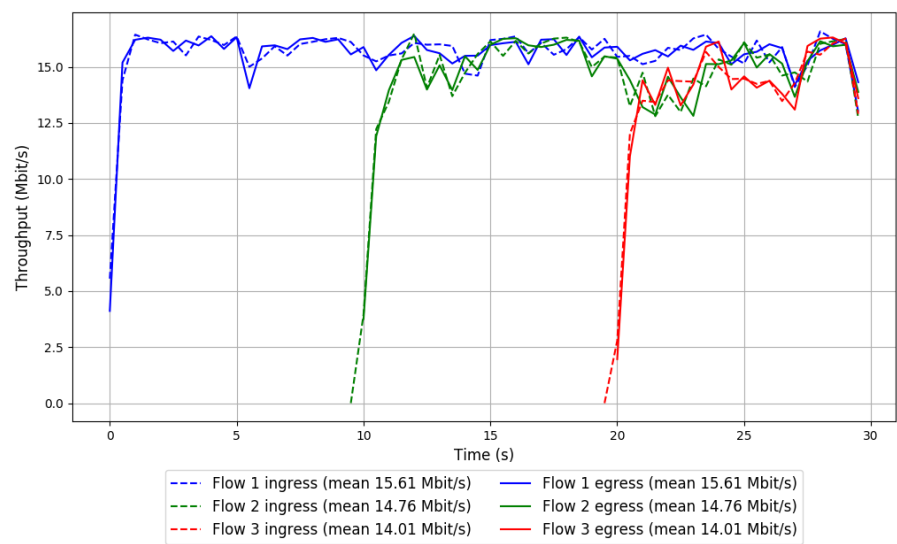


#### Run 4: Statistics of Sprout

Start at: 2018-02-16 16:26:30  
End at: 2018-02-16 16:27:00  
Local clock offset: -0.502 ms  
Remote clock offset: -6.027 ms

```
# Below is generated by plot.py at 2018-02-16 19:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.06 Mbit/s
95th percentile per-packet one-way delay: 34.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 32.215 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 38.630 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 35.493 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

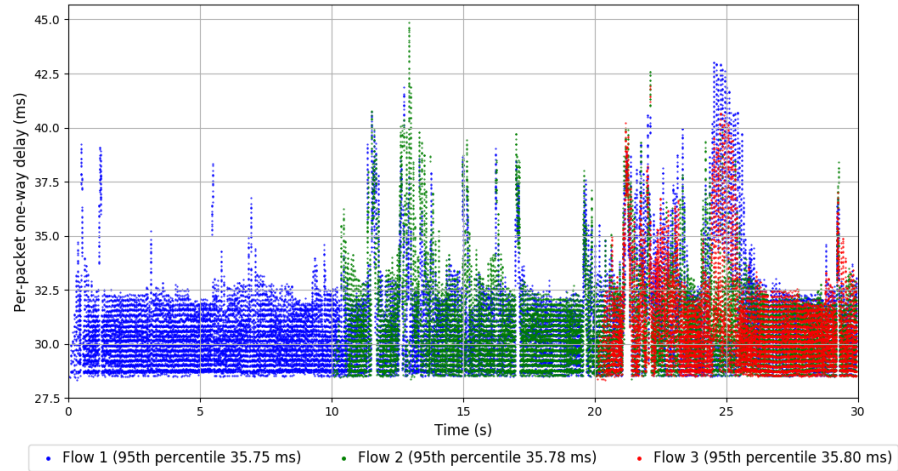
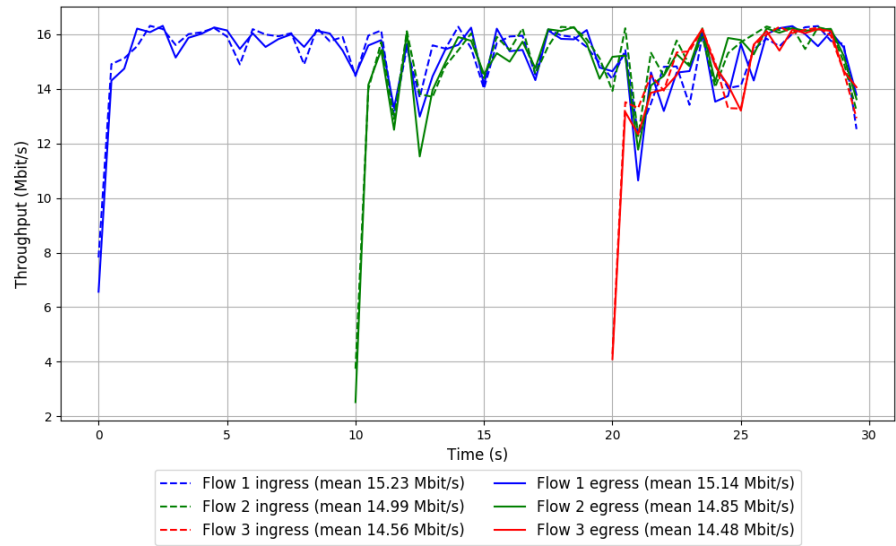


Run 5: Statistics of Sprout

Start at: 2018-02-16 16:52:15  
End at: 2018-02-16 16:52:45  
Local clock offset: 0.292 ms  
Remote clock offset: -6.561 ms

# Below is generated by plot.py at 2018-02-16 19:46:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 29.80 Mbit/s  
95th percentile per-packet one-way delay: 35.772 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 15.14 Mbit/s  
95th percentile per-packet one-way delay: 35.754 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 14.85 Mbit/s  
95th percentile per-packet one-way delay: 35.785 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 14.48 Mbit/s  
95th percentile per-packet one-way delay: 35.803 ms  
Loss rate: 0.56%

## Run 5: Report of Sprout — Data Link



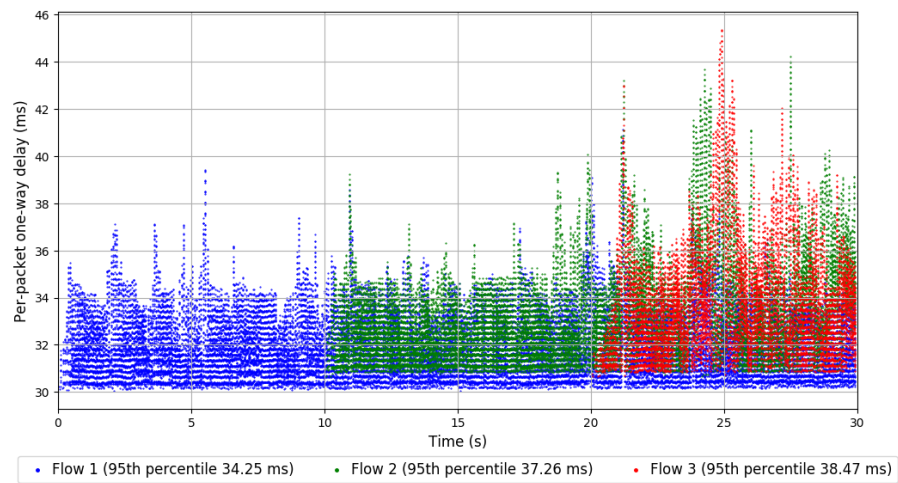
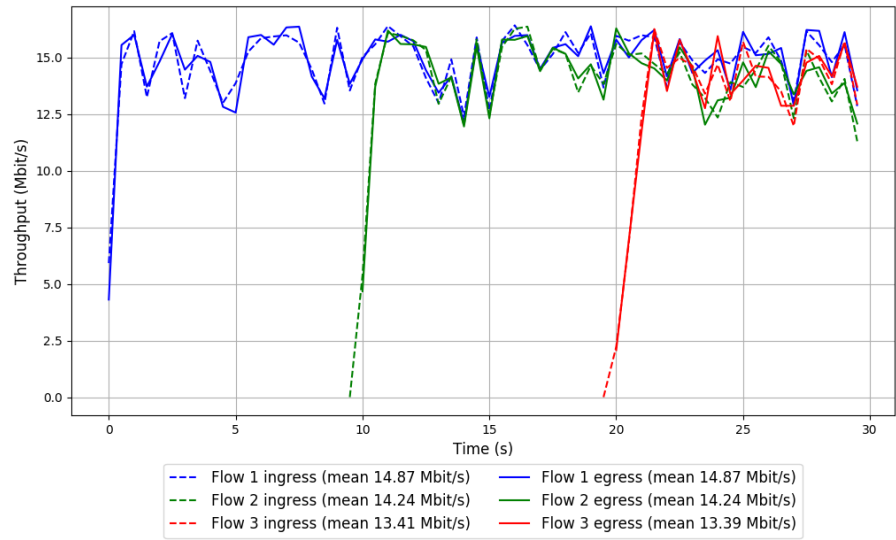
Run 6: Statistics of Sprout

Start at: 2018-02-16 17:20:30  
End at: 2018-02-16 17:21:00  
Local clock offset: 0.515 ms  
Remote clock offset: -5.539 ms

```
# Below is generated by plot.py at 2018-02-16 19:46:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.77 Mbit/s
95th percentile per-packet one-way delay: 36.365 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 14.87 Mbit/s
95th percentile per-packet one-way delay: 34.252 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.24 Mbit/s
95th percentile per-packet one-way delay: 37.260 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 38.465 ms
Loss rate: 0.09%
```



## Run 6: Report of Sprout — Data Link

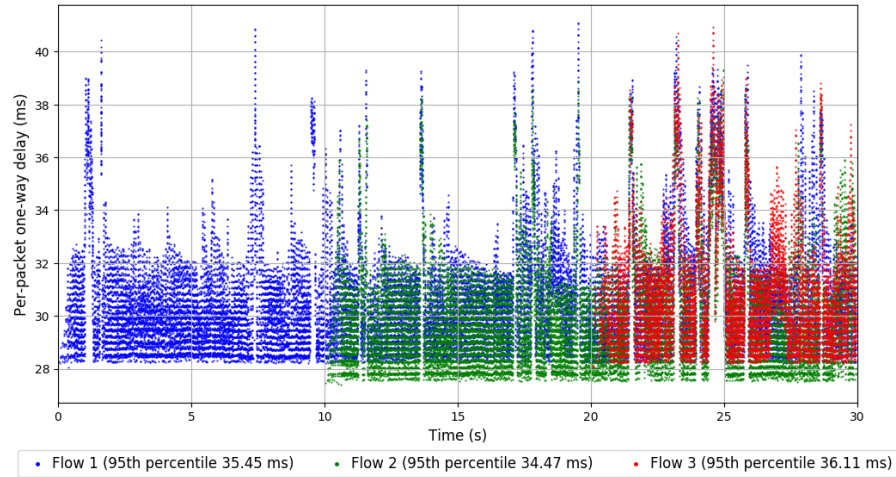
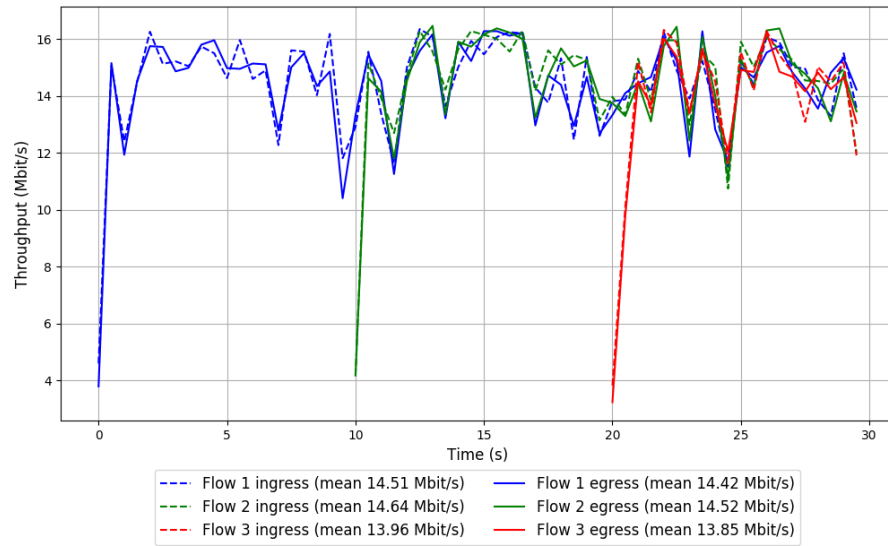


Run 7: Statistics of Sprout

Start at: 2018-02-16 17:49:01  
End at: 2018-02-16 17:49:31  
Local clock offset: 0.446 ms  
Remote clock offset: -5.804 ms

# Below is generated by plot.py at 2018-02-16 19:46:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.65 Mbit/s  
95th percentile per-packet one-way delay: 35.285 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 14.42 Mbit/s  
95th percentile per-packet one-way delay: 35.454 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 14.52 Mbit/s  
95th percentile per-packet one-way delay: 34.473 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 13.85 Mbit/s  
95th percentile per-packet one-way delay: 36.108 ms  
Loss rate: 0.73%

# Run 7: Report of Sprout — Data Link

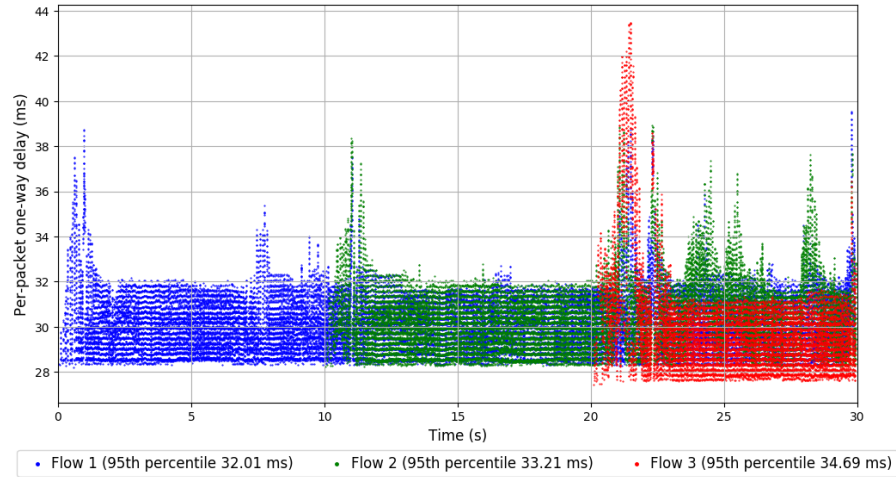
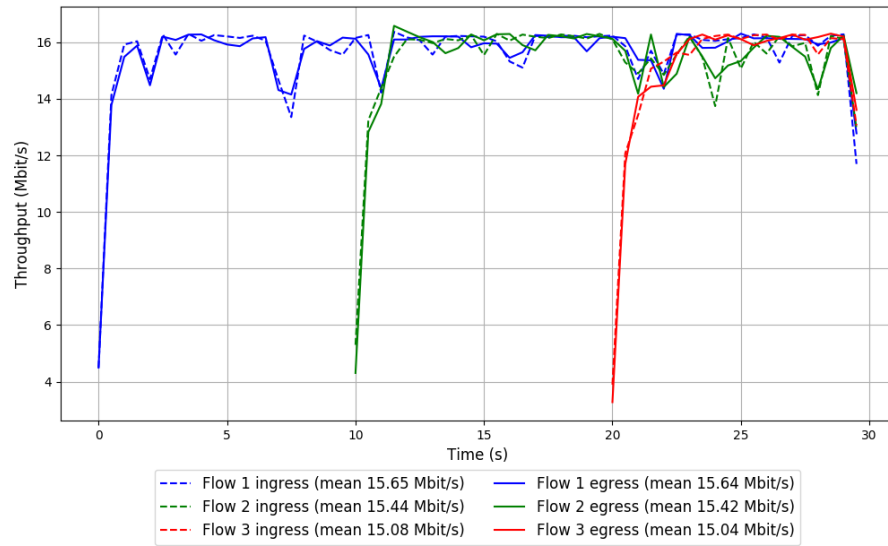


Run 8: Statistics of Sprout

Start at: 2018-02-16 18:15:40  
End at: 2018-02-16 18:16:10  
Local clock offset: 0.293 ms  
Remote clock offset: -4.233 ms

```
# Below is generated by plot.py at 2018-02-16 19:46:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 32.599 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 32.005 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 15.42 Mbit/s
95th percentile per-packet one-way delay: 33.214 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 15.04 Mbit/s
95th percentile per-packet one-way delay: 34.692 ms
Loss rate: 0.21%
```

## Run 8: Report of Sprout — Data Link

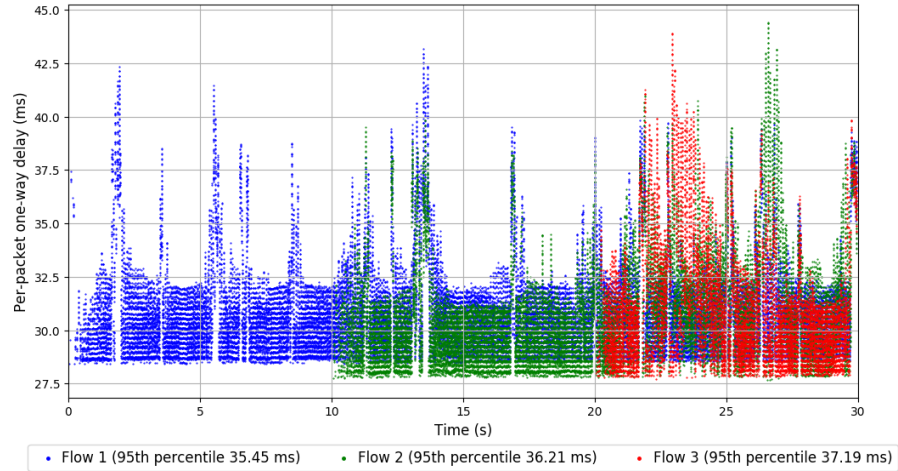
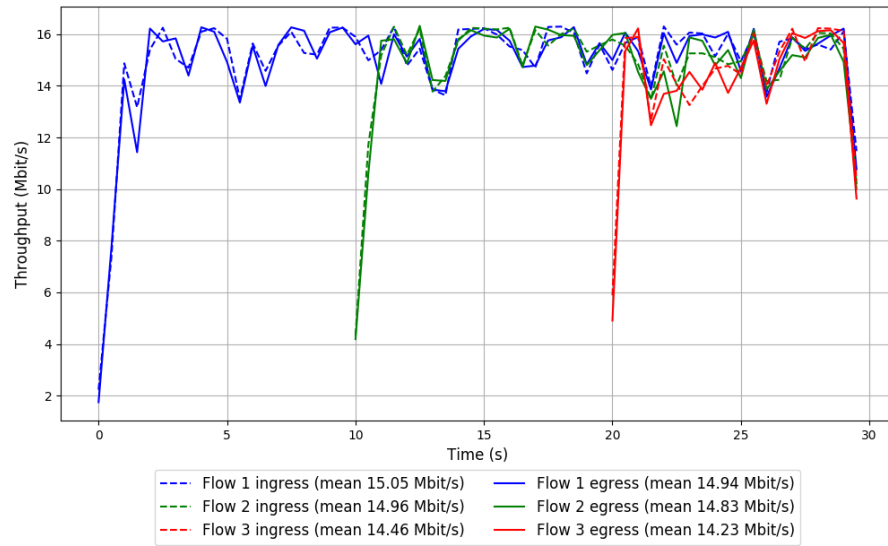


Run 9: Statistics of Sprout

Start at: 2018-02-16 18:41:00  
End at: 2018-02-16 18:41:30  
Local clock offset: -0.072 ms  
Remote clock offset: -5.598 ms

# Below is generated by plot.py at 2018-02-16 19:46:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 29.51 Mbit/s  
95th percentile per-packet one-way delay: 36.159 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 14.94 Mbit/s  
95th percentile per-packet one-way delay: 35.447 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 14.83 Mbit/s  
95th percentile per-packet one-way delay: 36.211 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 14.23 Mbit/s  
95th percentile per-packet one-way delay: 37.185 ms  
Loss rate: 1.49%

## Run 9: Report of Sprout — Data Link



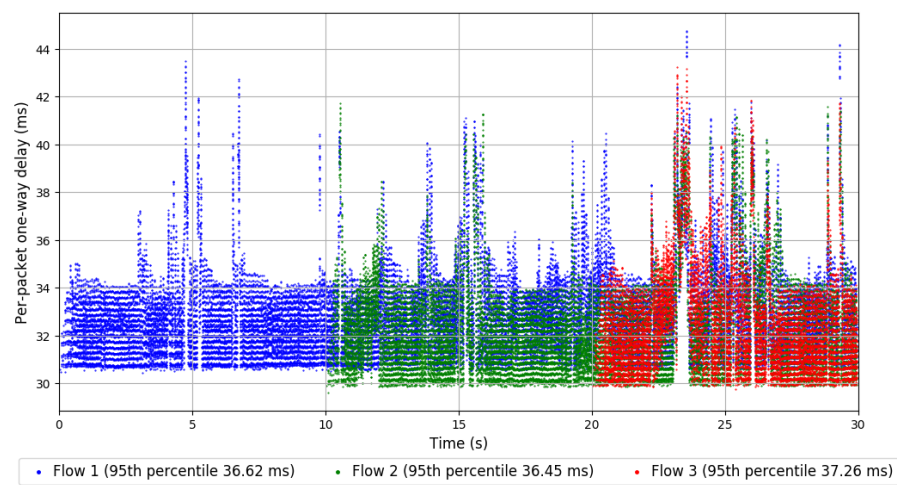
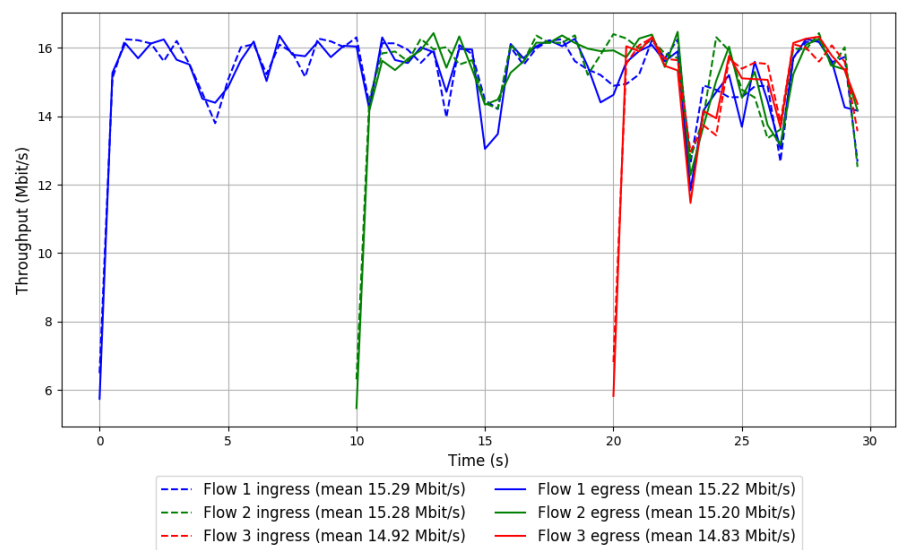
Run 10: Statistics of Sprout

Start at: 2018-02-16 19:05:59  
End at: 2018-02-16 19:06:29  
Local clock offset: 0.44 ms  
Remote clock offset: -6.863 ms

# Below is generated by plot.py at 2018-02-16 19:46:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 30.23 Mbit/s  
95th percentile per-packet one-way delay: 36.703 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 15.22 Mbit/s  
95th percentile per-packet one-way delay: 36.620 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 15.20 Mbit/s  
95th percentile per-packet one-way delay: 36.446 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 14.83 Mbit/s  
95th percentile per-packet one-way delay: 37.262 ms  
Loss rate: 0.59%



Run 10: Report of Sprout — Data Link

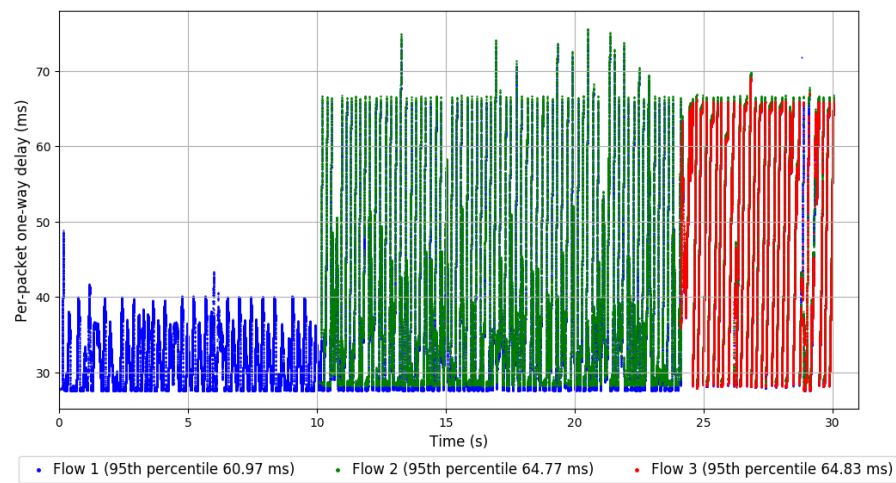
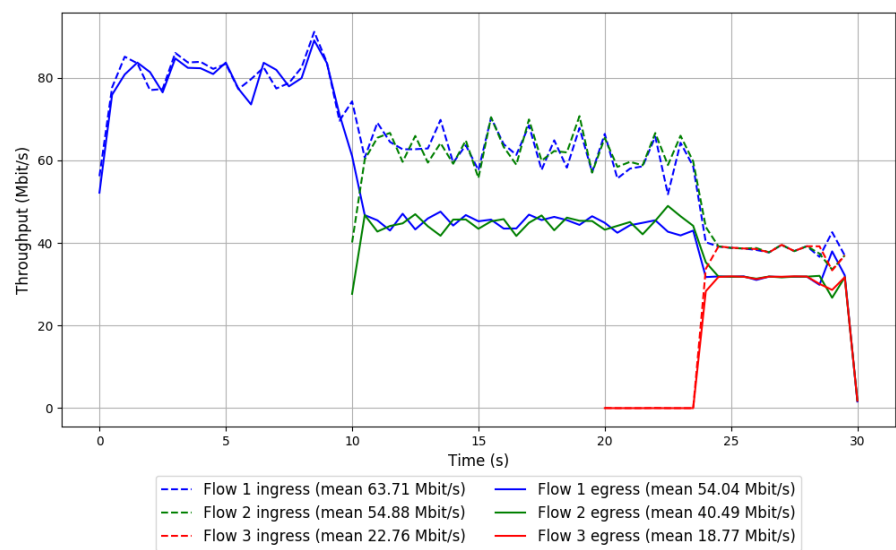


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 14:55:33
End at: 2018-02-16 14:56:03
Local clock offset: 0.268 ms
Remote clock offset: -6.6 ms

# Below is generated by plot.py at 2018-02-16 19:48:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.24 Mbit/s
95th percentile per-packet one-way delay: 63.509 ms
Loss rate: 18.98%
-- Flow 1:
Average throughput: 54.04 Mbit/s
95th percentile per-packet one-way delay: 60.966 ms
Loss rate: 15.10%
-- Flow 2:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 64.767 ms
Loss rate: 26.11%
-- Flow 3:
Average throughput: 18.77 Mbit/s
95th percentile per-packet one-way delay: 64.828 ms
Loss rate: 17.29%
```

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

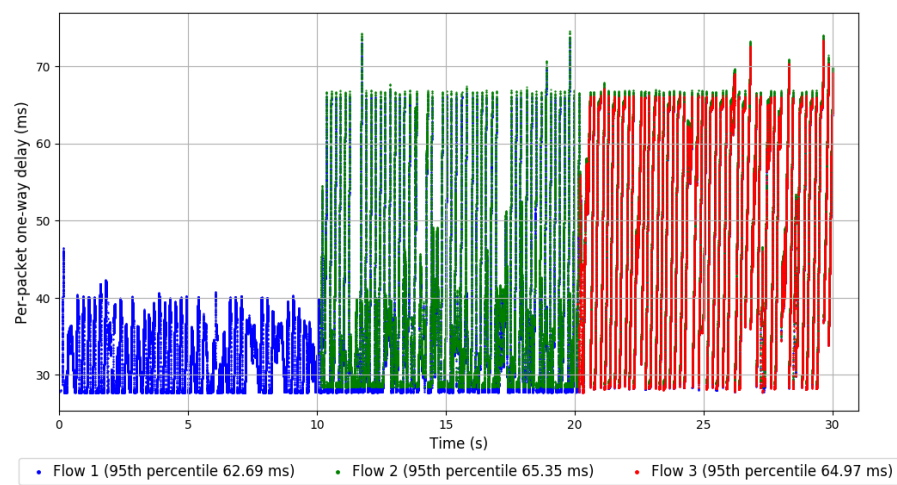
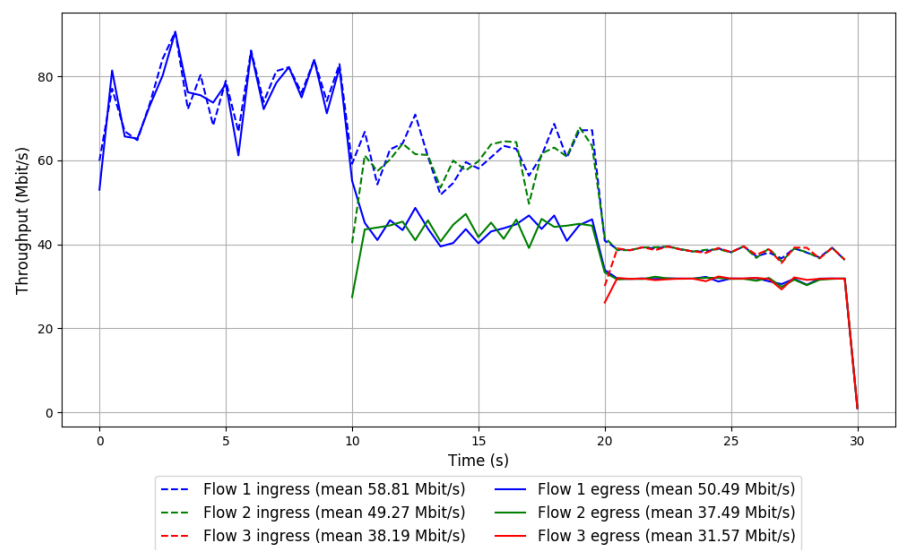


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 15:22:05  
End at: 2018-02-16 15:22:35  
Local clock offset: 0.254 ms  
Remote clock offset: -7.612 ms

# Below is generated by plot.py at 2018-02-16 19:48:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.94 Mbit/s  
95th percentile per-packet one-way delay: 64.640 ms  
Loss rate: 17.54%  
-- Flow 1:  
Average throughput: 50.49 Mbit/s  
95th percentile per-packet one-way delay: 62.687 ms  
Loss rate: 14.08%  
-- Flow 2:  
Average throughput: 37.49 Mbit/s  
95th percentile per-packet one-way delay: 65.354 ms  
Loss rate: 23.87%  
-- Flow 3:  
Average throughput: 31.57 Mbit/s  
95th percentile per-packet one-way delay: 64.973 ms  
Loss rate: 17.16%

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

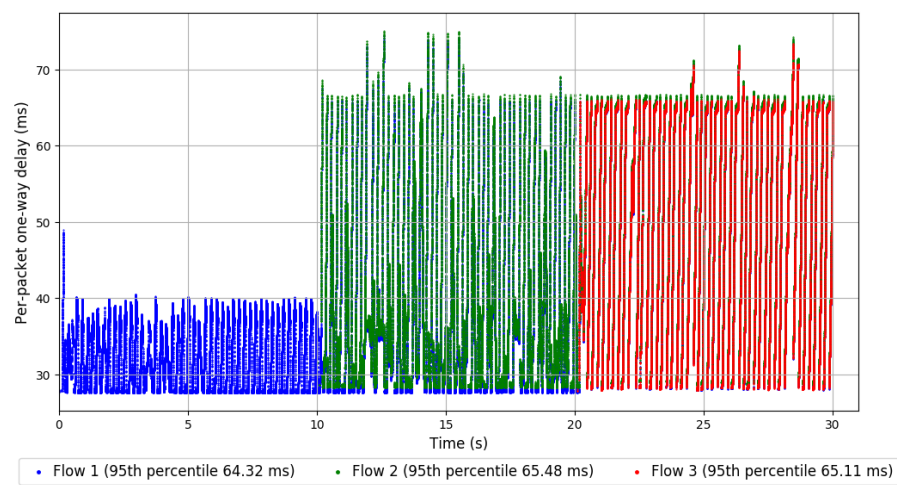
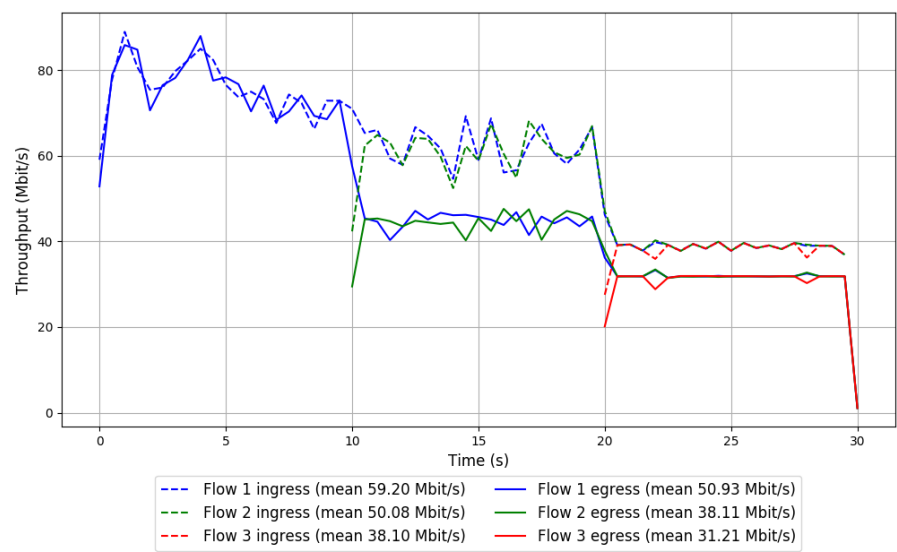


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 15:47:53  
End at: 2018-02-16 15:48:23  
Local clock offset: -0.22 ms  
Remote clock offset: -6.932 ms

# Below is generated by plot.py at 2018-02-16 19:48:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.68 Mbit/s  
95th percentile per-packet one-way delay: 64.919 ms  
Loss rate: 17.54%  
-- Flow 1:  
Average throughput: 50.93 Mbit/s  
95th percentile per-packet one-way delay: 64.317 ms  
Loss rate: 13.91%  
-- Flow 2:  
Average throughput: 38.11 Mbit/s  
95th percentile per-packet one-way delay: 65.485 ms  
Loss rate: 23.83%  
-- Flow 3:  
Average throughput: 31.21 Mbit/s  
95th percentile per-packet one-way delay: 65.105 ms  
Loss rate: 17.97%

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



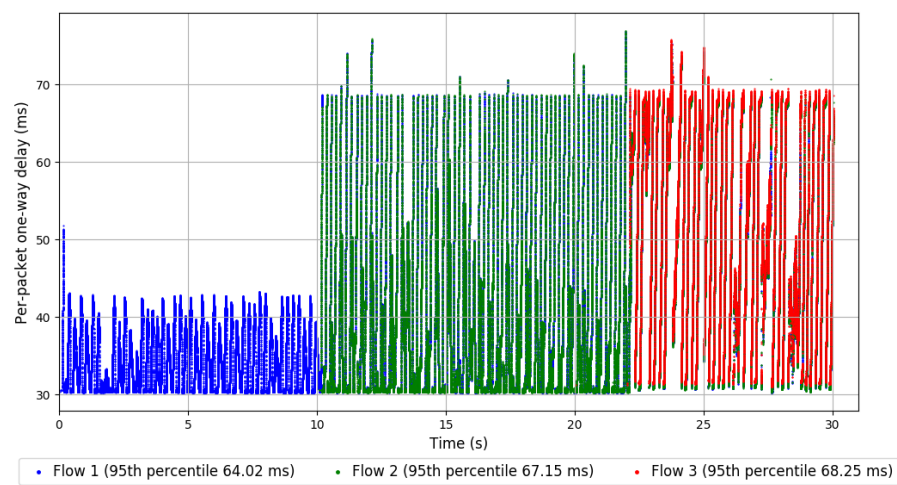
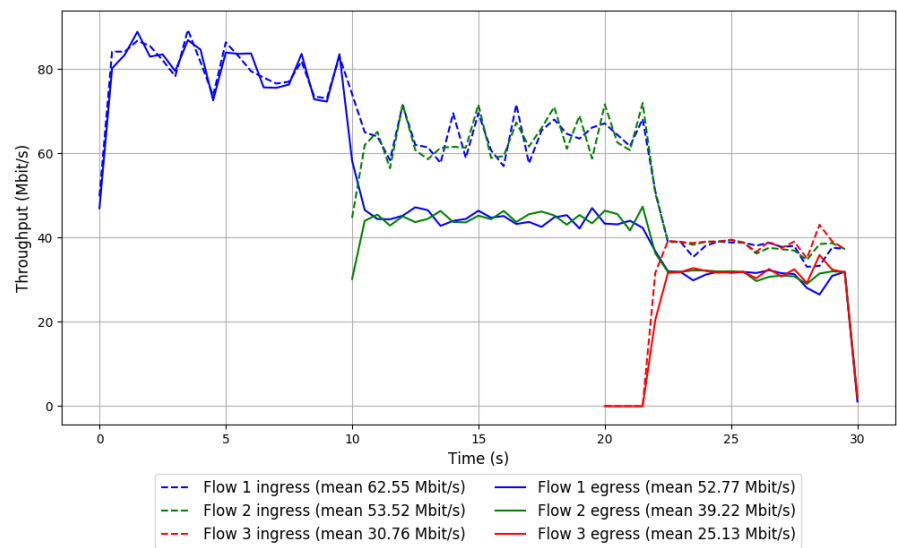
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 16:12:54  
End at: 2018-02-16 16:13:24  
Local clock offset: -0.46 ms  
Remote clock offset: -3.003 ms

# Below is generated by plot.py at 2018-02-16 19:49:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.22 Mbit/s  
95th percentile per-packet one-way delay: 67.041 ms  
Loss rate: 19.43%  
-- Flow 1:  
Average throughput: 52.77 Mbit/s  
95th percentile per-packet one-way delay: 64.015 ms  
Loss rate: 15.58%  
-- Flow 2:  
Average throughput: 39.22 Mbit/s  
95th percentile per-packet one-way delay: 67.148 ms  
Loss rate: 26.58%  
-- Flow 3:  
Average throughput: 25.13 Mbit/s  
95th percentile per-packet one-way delay: 68.252 ms  
Loss rate: 18.01%



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

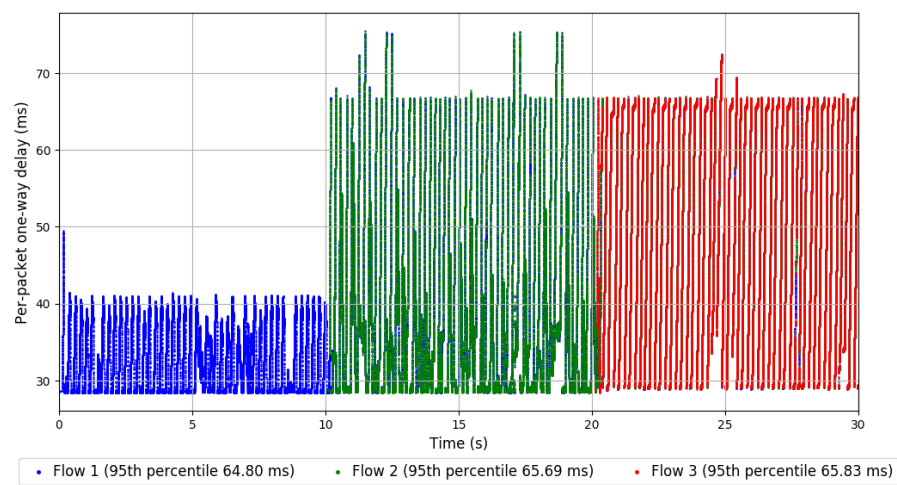
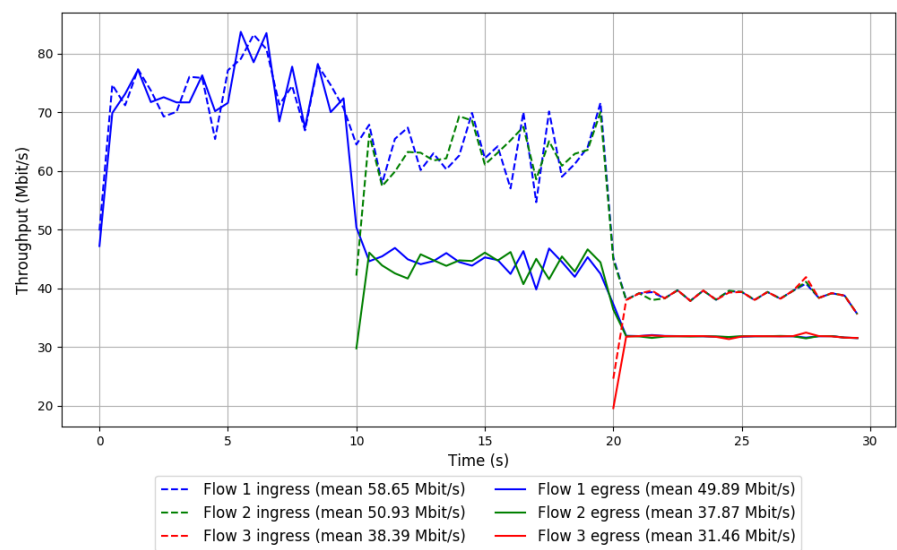


Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 16:39:09  
End at: 2018-02-16 16:39:39  
Local clock offset: -0.097 ms  
Remote clock offset: -6.326 ms

# Below is generated by plot.py at 2018-02-16 19:49:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.51 Mbit/s  
95th percentile per-packet one-way delay: 65.574 ms  
Loss rate: 18.79%  
-- Flow 1:  
Average throughput: 49.89 Mbit/s  
95th percentile per-packet one-way delay: 64.803 ms  
Loss rate: 14.95%  
-- Flow 2:  
Average throughput: 37.87 Mbit/s  
95th percentile per-packet one-way delay: 65.693 ms  
Loss rate: 25.66%  
-- Flow 3:  
Average throughput: 31.46 Mbit/s  
95th percentile per-packet one-way delay: 65.829 ms  
Loss rate: 18.16%

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

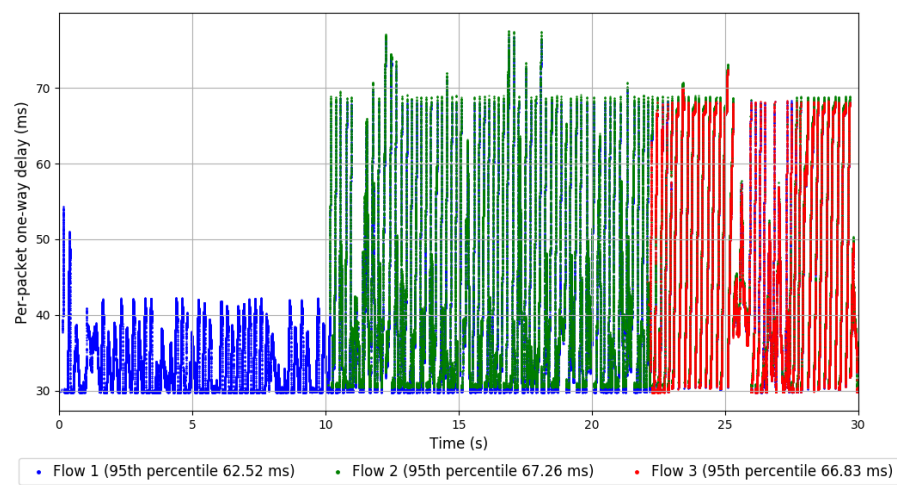
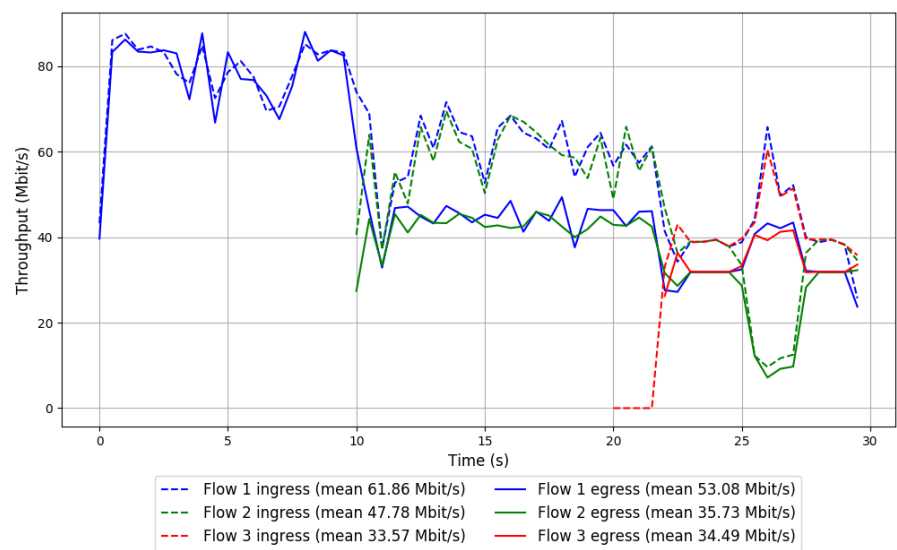


Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 17:05:13  
End at: 2018-02-16 17:05:43  
Local clock offset: 0.46 ms  
Remote clock offset: -5.039 ms

# Below is generated by plot.py at 2018-02-16 19:49:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.99 Mbit/s  
95th percentile per-packet one-way delay: 66.085 ms  
Loss rate: 17.95%  
-- Flow 1:  
Average throughput: 53.08 Mbit/s  
95th percentile per-packet one-way delay: 62.519 ms  
Loss rate: 14.19%  
-- Flow 2:  
Average throughput: 35.73 Mbit/s  
95th percentile per-packet one-way delay: 67.260 ms  
Loss rate: 25.22%  
-- Flow 3:  
Average throughput: 34.49 Mbit/s  
95th percentile per-packet one-way delay: 66.828 ms  
Loss rate: 18.10%

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

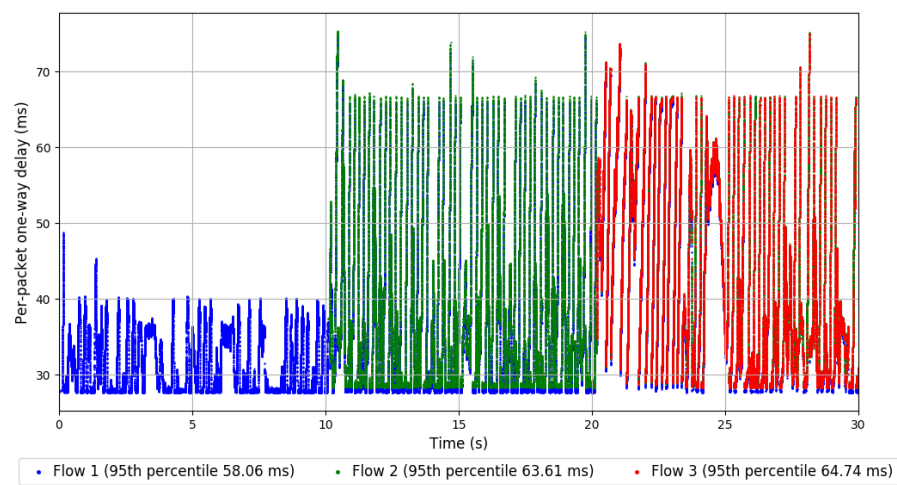
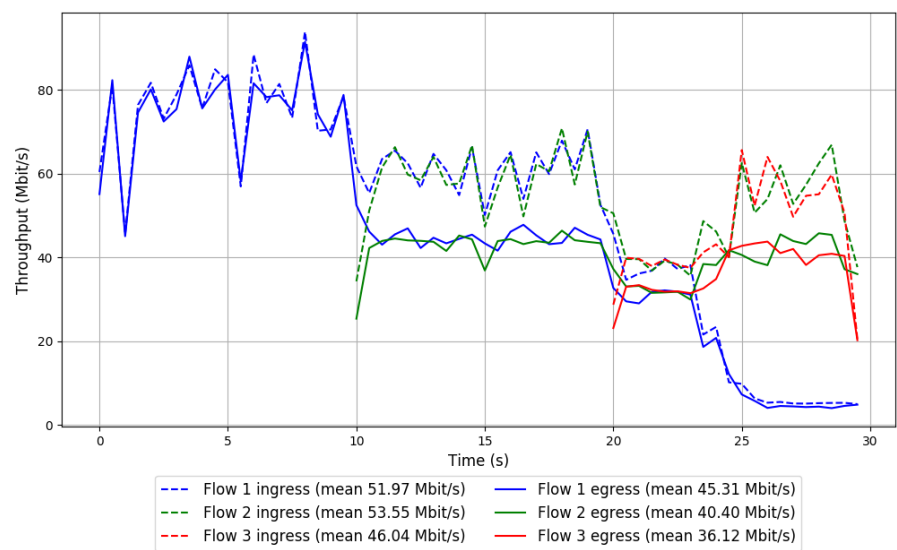


Run 7: Statistics of TaoVA-100x

Start at: 2018-02-16 17:34:21  
End at: 2018-02-16 17:34:51  
Local clock offset: 0.448 ms  
Remote clock offset: -6.686 ms

# Below is generated by plot.py at 2018-02-16 19:49:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.20 Mbit/s  
95th percentile per-packet one-way delay: 62.060 ms  
Loss rate: 18.17%  
-- Flow 1:  
Average throughput: 45.31 Mbit/s  
95th percentile per-packet one-way delay: 58.060 ms  
Loss rate: 12.80%  
-- Flow 2:  
Average throughput: 40.40 Mbit/s  
95th percentile per-packet one-way delay: 63.610 ms  
Loss rate: 24.55%  
-- Flow 3:  
Average throughput: 36.12 Mbit/s  
95th percentile per-packet one-way delay: 64.739 ms  
Loss rate: 21.54%

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



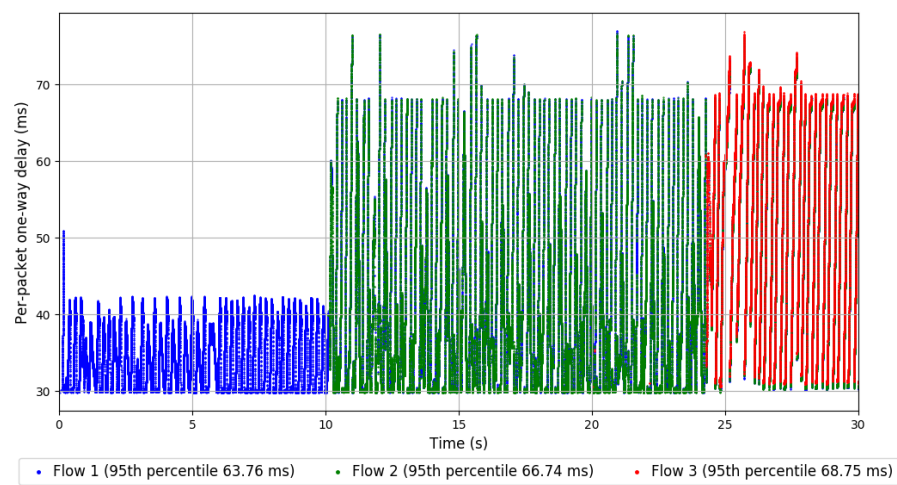
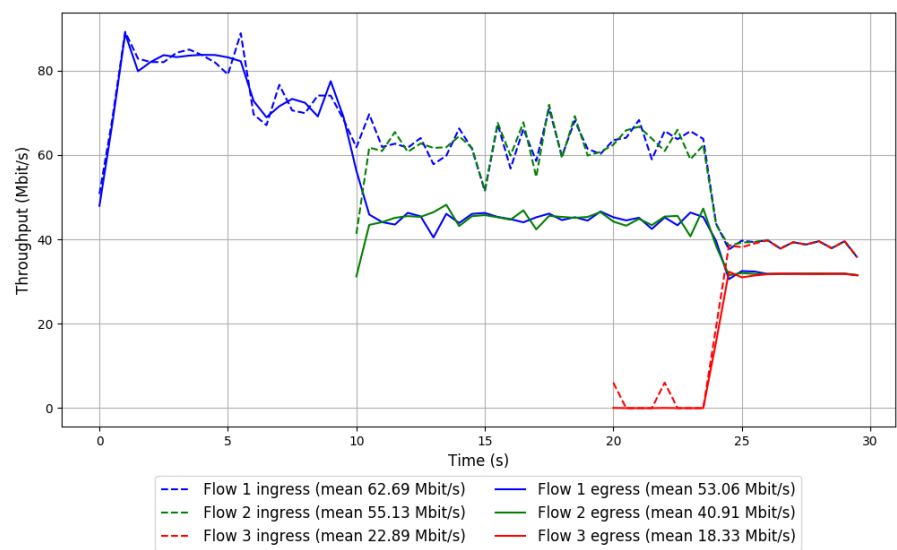
Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 18:01:48  
End at: 2018-02-16 18:02:18  
Local clock offset: 0.338 ms  
Remote clock offset: -2.845 ms

# Below is generated by plot.py at 2018-02-16 19:49:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.39 Mbit/s  
95th percentile per-packet one-way delay: 66.637 ms  
Loss rate: 19.26%  
-- Flow 1:  
Average throughput: 53.06 Mbit/s  
95th percentile per-packet one-way delay: 63.758 ms  
Loss rate: 15.36%  
-- Flow 2:  
Average throughput: 40.91 Mbit/s  
95th percentile per-packet one-way delay: 66.737 ms  
Loss rate: 25.79%  
-- Flow 3:  
Average throughput: 18.33 Mbit/s  
95th percentile per-packet one-way delay: 68.745 ms  
Loss rate: 19.91%



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

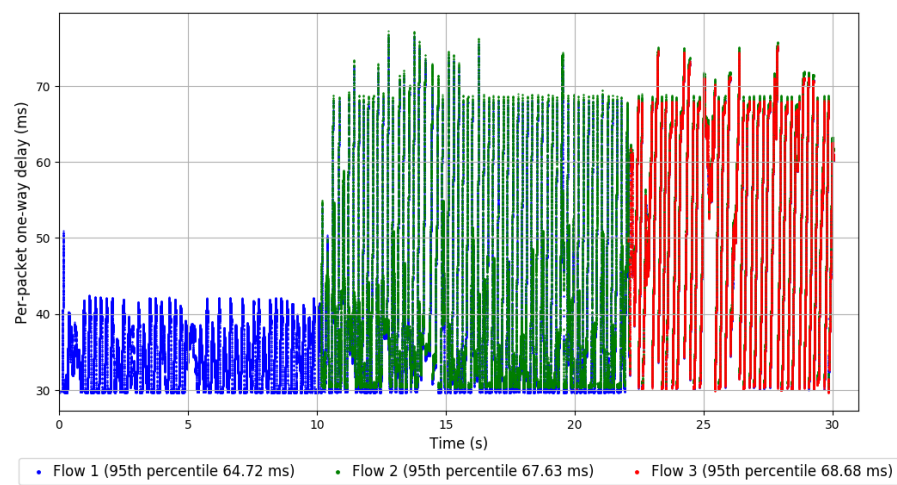
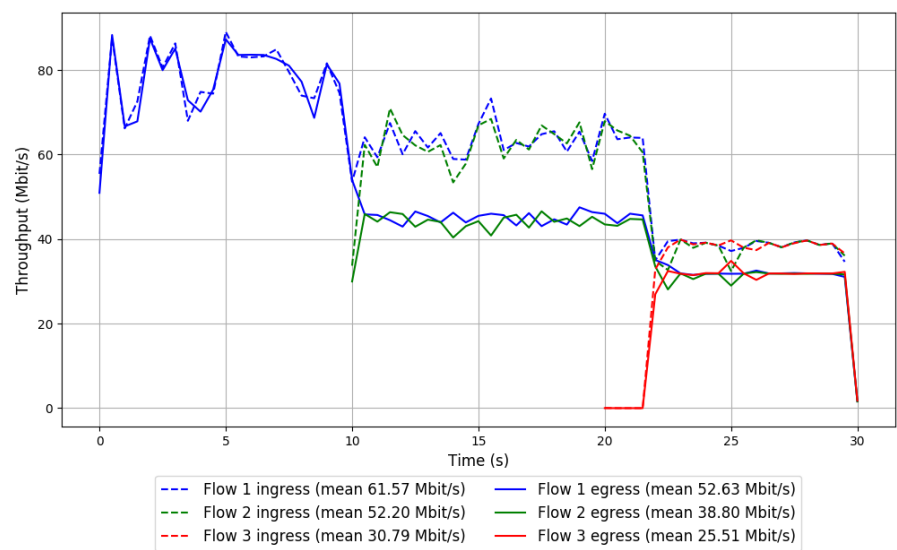


Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 18:27:57  
End at: 2018-02-16 18:28:27  
Local clock offset: 0.012 ms  
Remote clock offset: -1.432 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.95 Mbit/s  
95th percentile per-packet one-way delay: 66.793 ms  
Loss rate: 18.31%  
-- Flow 1:  
Average throughput: 52.63 Mbit/s  
95th percentile per-packet one-way delay: 64.720 ms  
Loss rate: 14.44%  
-- Flow 2:  
Average throughput: 38.80 Mbit/s  
95th percentile per-packet one-way delay: 67.630 ms  
Loss rate: 25.59%  
-- Flow 3:  
Average throughput: 25.51 Mbit/s  
95th percentile per-packet one-way delay: 68.678 ms  
Loss rate: 16.91%

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

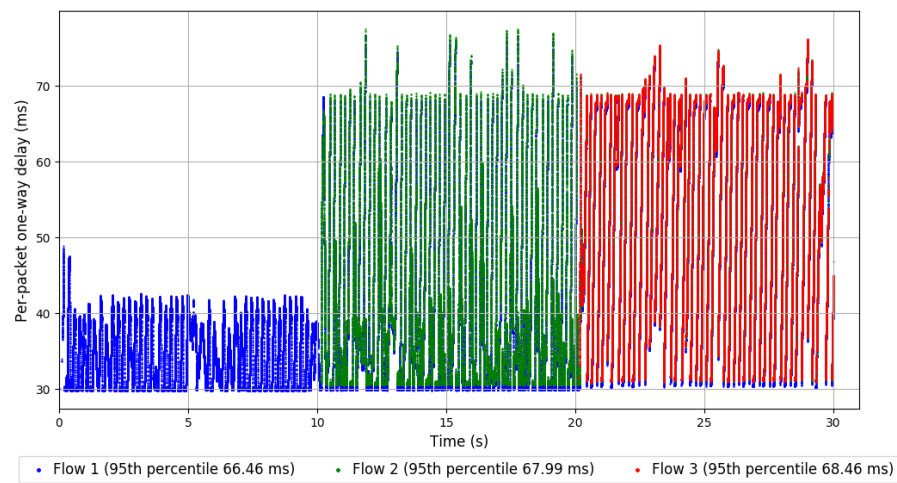
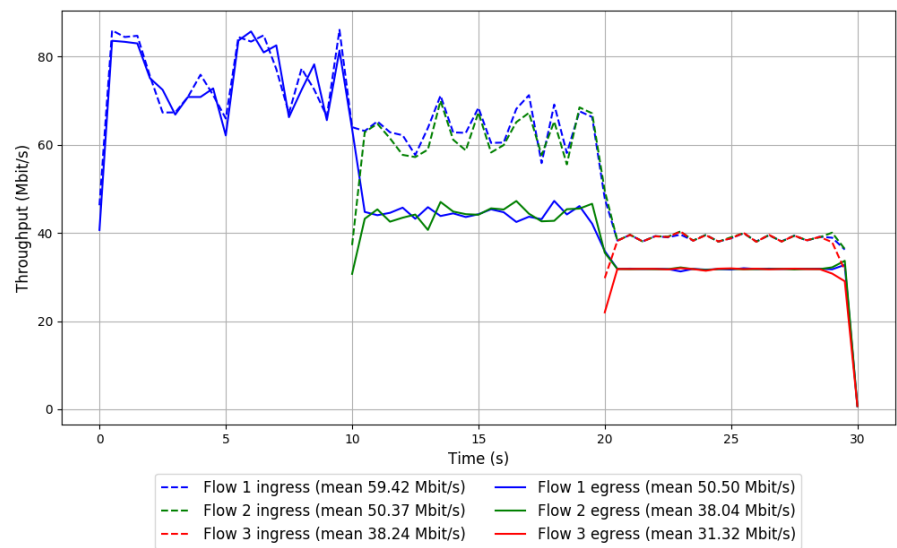


Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 18:53:14  
End at: 2018-02-16 18:53:44  
Local clock offset: 0.072 ms  
Remote clock offset: -5.526 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.23 Mbit/s  
95th percentile per-packet one-way delay: 67.721 ms  
Loss rate: 18.35%  
-- Flow 1:  
Average throughput: 50.50 Mbit/s  
95th percentile per-packet one-way delay: 66.456 ms  
Loss rate: 14.97%  
-- Flow 2:  
Average throughput: 38.04 Mbit/s  
95th percentile per-packet one-way delay: 67.993 ms  
Loss rate: 24.44%  
-- Flow 3:  
Average throughput: 31.32 Mbit/s  
95th percentile per-packet one-way delay: 68.463 ms  
Loss rate: 18.05%

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

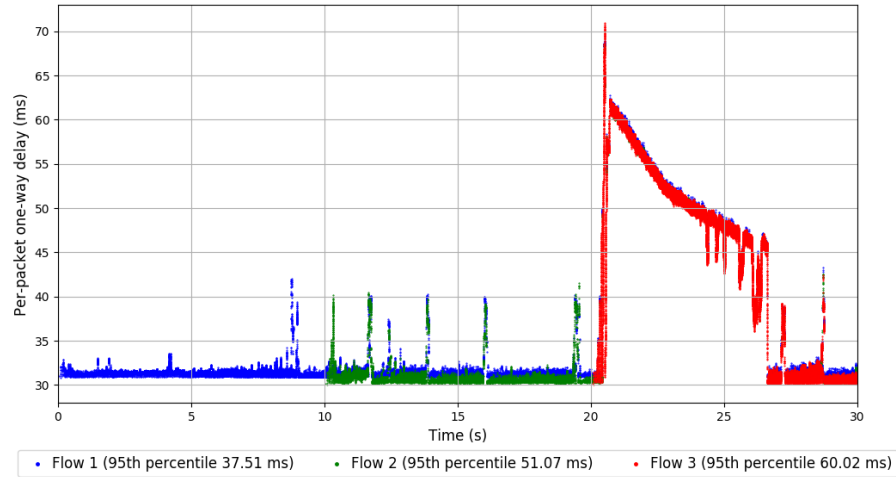
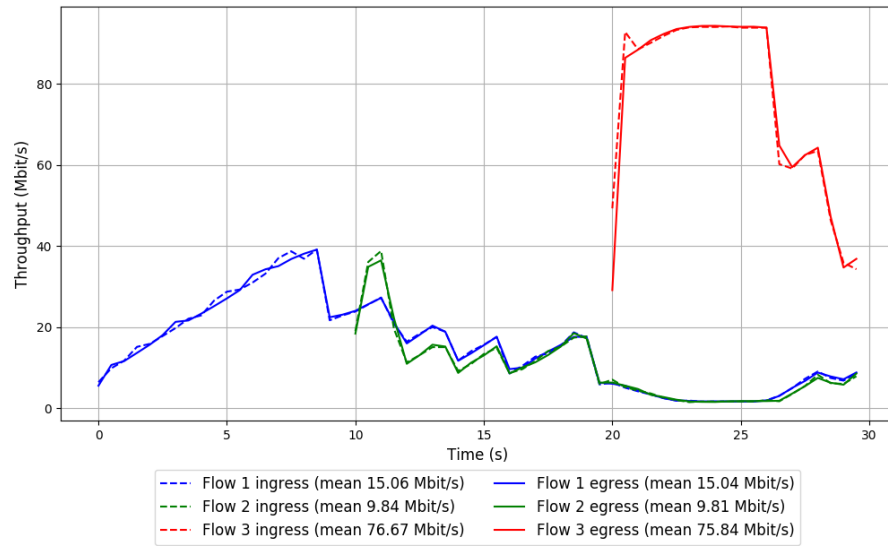


Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 14:59:52  
End at: 2018-02-16 15:00:22  
Local clock offset: 0.306 ms  
Remote clock offset: -4.031 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.74 Mbit/s  
95th percentile per-packet one-way delay: 58.814 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 15.04 Mbit/s  
95th percentile per-packet one-way delay: 37.512 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 9.81 Mbit/s  
95th percentile per-packet one-way delay: 51.066 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 75.84 Mbit/s  
95th percentile per-packet one-way delay: 60.021 ms  
Loss rate: 1.07%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 15:26:30

End at: 2018-02-16 15:27:00

Local clock offset: 0.224 ms

Remote clock offset: -5.22 ms

# Below is generated by plot.py at 2018-02-16 19:51:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 46.355 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 19.33 Mbit/s

95th percentile per-packet one-way delay: 45.961 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 53.41 Mbit/s

95th percentile per-packet one-way delay: 46.480 ms

Loss rate: 0.88%

-- Flow 3:

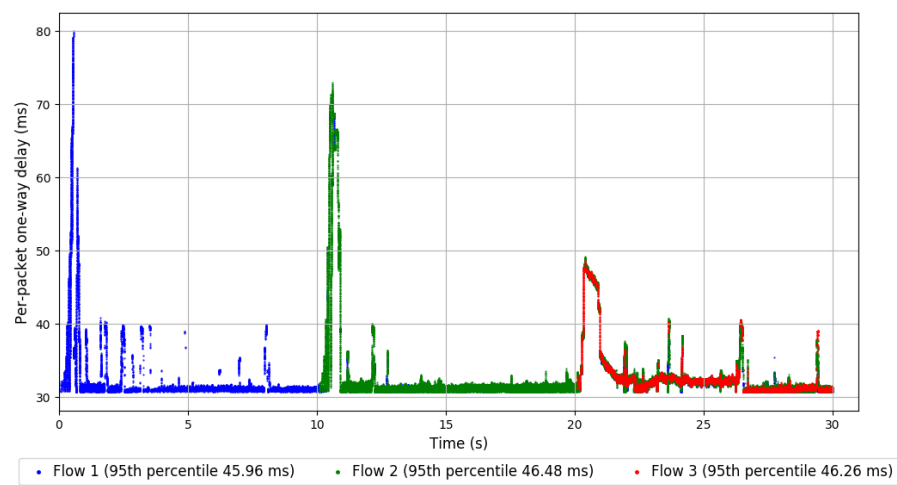
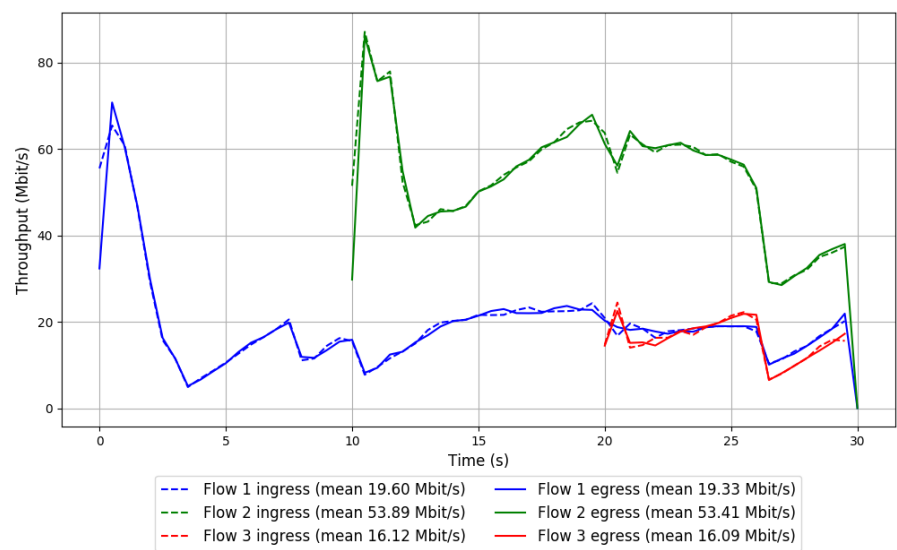
Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 46.262 ms

Loss rate: 0.19%



Run 2: Report of TCP Vegas — Data Link

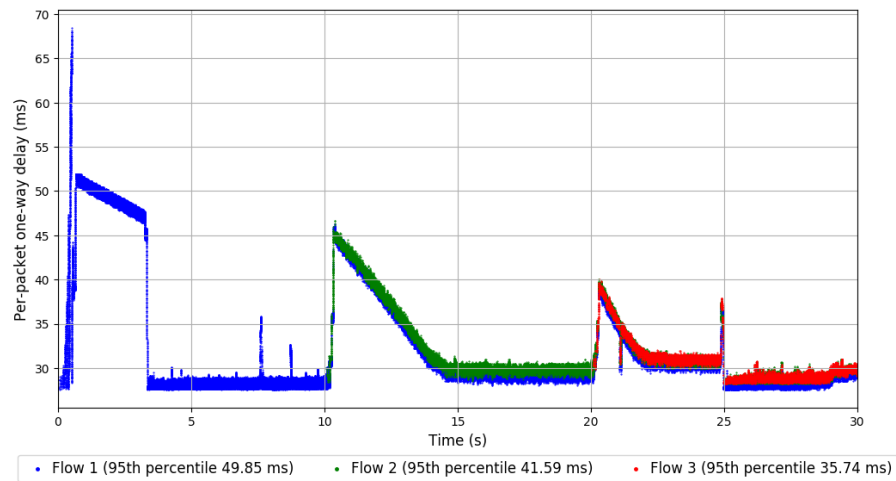
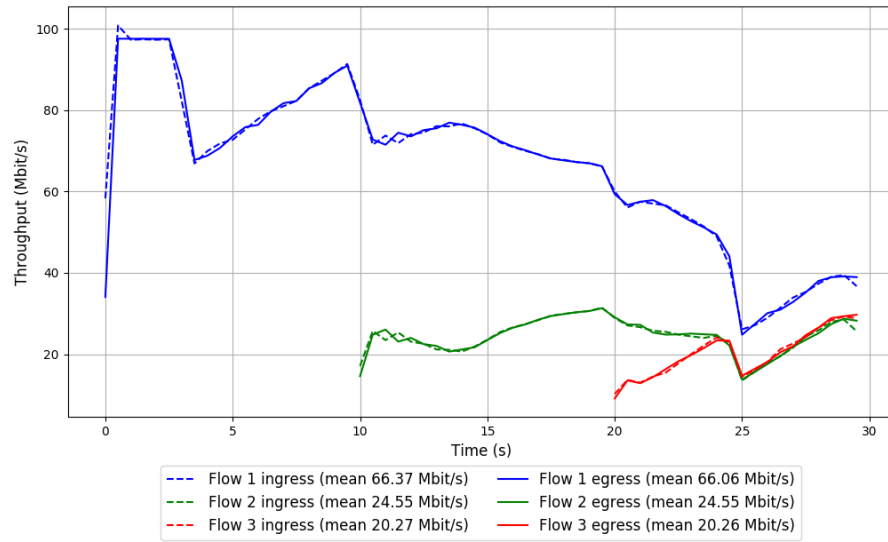


Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 15:51:59  
End at: 2018-02-16 15:52:29  
Local clock offset: -0.229 ms  
Remote clock offset: -6.521 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.13 Mbit/s  
95th percentile per-packet one-way delay: 49.208 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 66.06 Mbit/s  
95th percentile per-packet one-way delay: 49.849 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 24.55 Mbit/s  
95th percentile per-packet one-way delay: 41.585 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 20.26 Mbit/s  
95th percentile per-packet one-way delay: 35.739 ms  
Loss rate: 0.08%

### Run 3: Report of TCP Vegas — Data Link

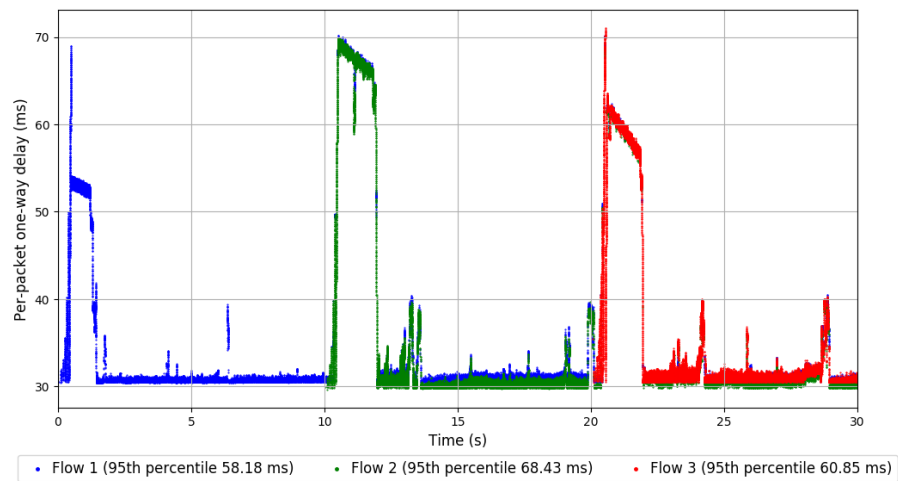
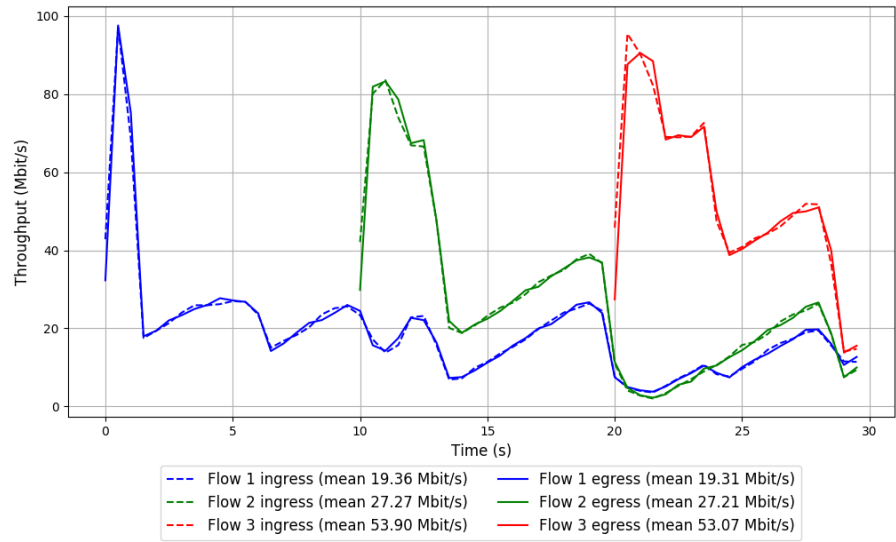


Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 16:17:05  
End at: 2018-02-16 16:17:35  
Local clock offset: -0.507 ms  
Remote clock offset: -3.442 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.03 Mbit/s  
95th percentile per-packet one-way delay: 67.022 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 19.31 Mbit/s  
95th percentile per-packet one-way delay: 58.182 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 27.21 Mbit/s  
95th percentile per-packet one-way delay: 68.434 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 53.07 Mbit/s  
95th percentile per-packet one-way delay: 60.854 ms  
Loss rate: 1.58%

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 16:43:20

End at: 2018-02-16 16:43:50

Local clock offset: 0.096 ms

Remote clock offset: -4.39 ms

# Below is generated by plot.py at 2018-02-16 19:51:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.50 Mbit/s

95th percentile per-packet one-way delay: 54.406 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 52.691 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 65.409 ms

Loss rate: 0.31%

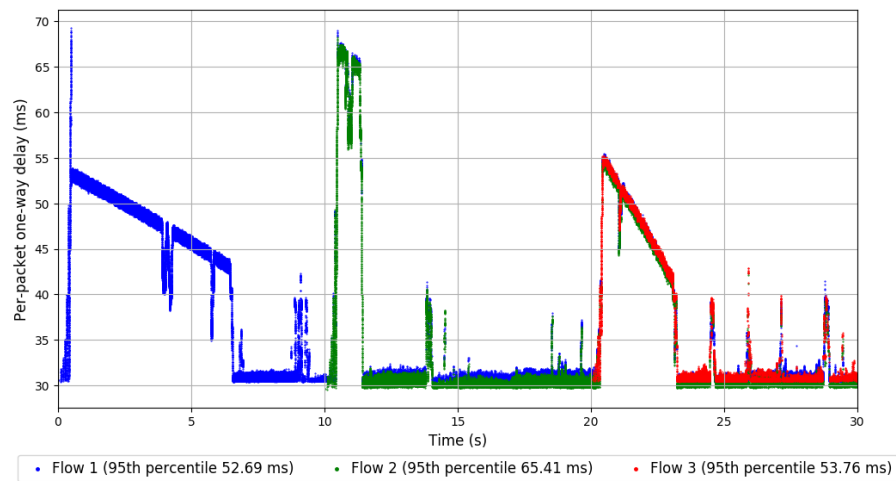
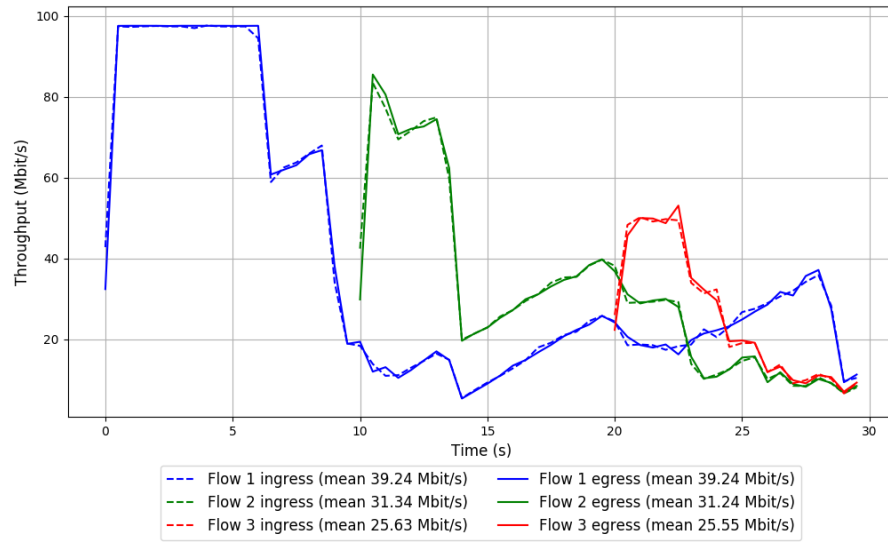
-- Flow 3:

Average throughput: 25.55 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.28%

### Run 5: Report of TCP Vegas — Data Link



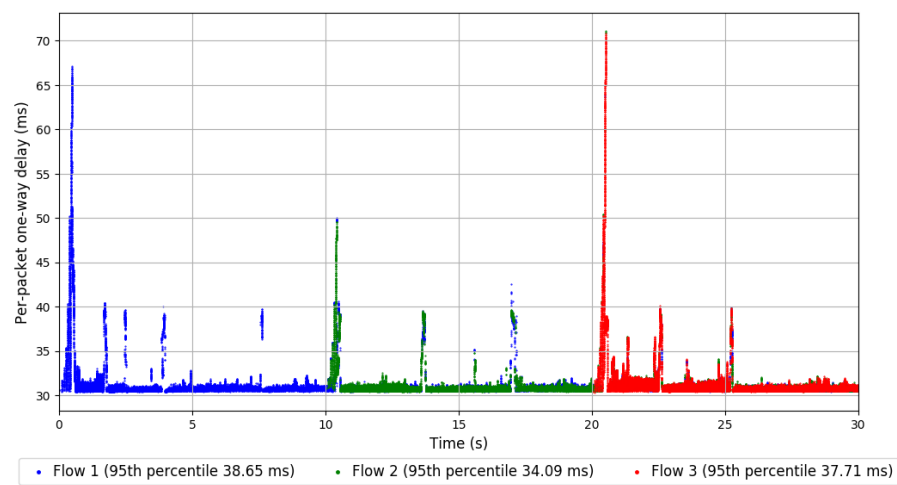
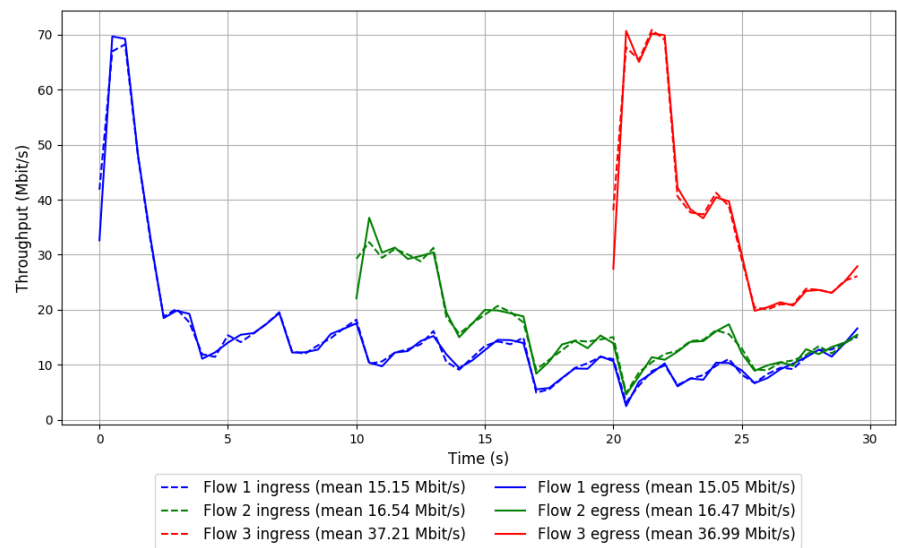
Run 6: Statistics of TCP Vegas

Start at: 2018-02-16 17:10:06  
End at: 2018-02-16 17:10:37  
Local clock offset: 0.508 ms  
Remote clock offset: -5.264 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.28 Mbit/s  
95th percentile per-packet one-way delay: 37.449 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 15.05 Mbit/s  
95th percentile per-packet one-way delay: 38.646 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 16.47 Mbit/s  
95th percentile per-packet one-way delay: 34.090 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 36.99 Mbit/s  
95th percentile per-packet one-way delay: 37.708 ms  
Loss rate: 0.59%



Run 6: Report of TCP Vegas — Data Link

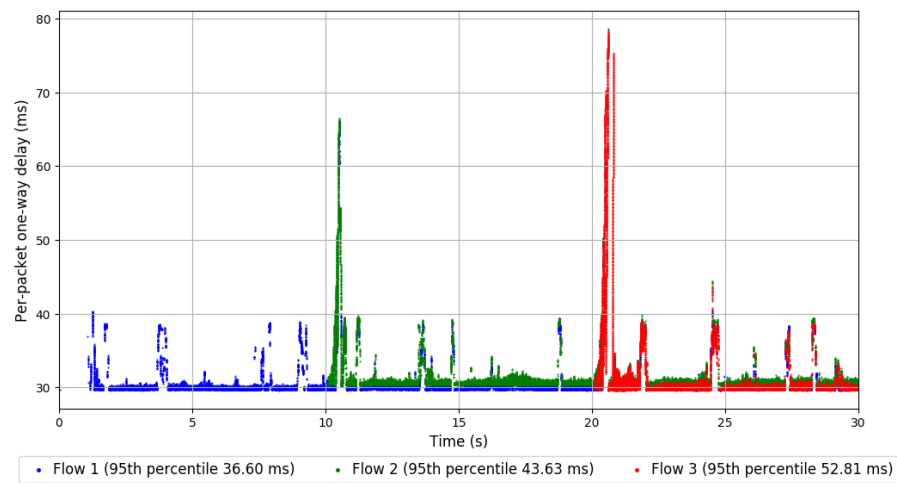
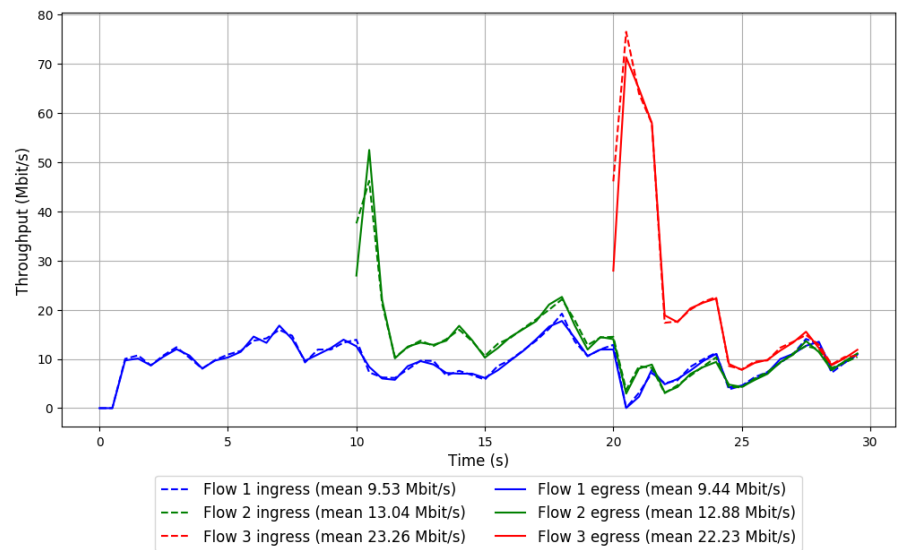


Run 7: Statistics of TCP Vegas

Start at: 2018-02-16 17:39:22  
End at: 2018-02-16 17:39:52  
Local clock offset: 0.521 ms  
Remote clock offset: -4.252 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 25.38 Mbit/s  
95th percentile per-packet one-way delay: 39.339 ms  
Loss rate: 2.07%  
-- Flow 1:  
Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 36.603 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 12.88 Mbit/s  
95th percentile per-packet one-way delay: 43.628 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 22.23 Mbit/s  
95th percentile per-packet one-way delay: 52.808 ms  
Loss rate: 4.50%

Run 7: Report of TCP Vegas — Data Link

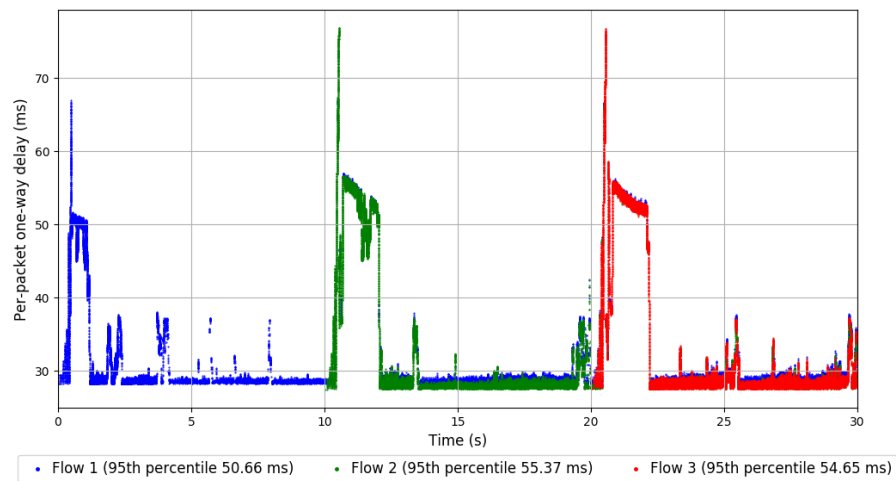
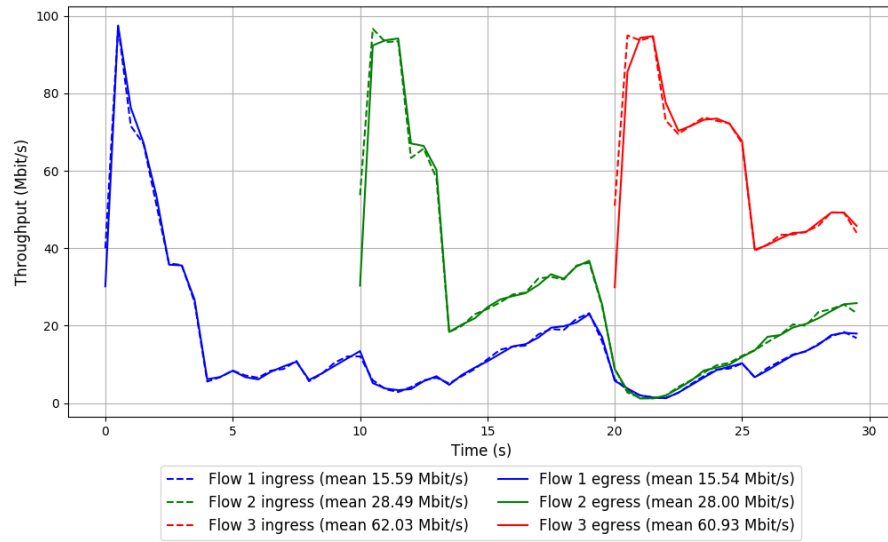


Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 18:06:11  
End at: 2018-02-16 18:06:41  
Local clock offset: 0.343 ms  
Remote clock offset: -4.788 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.41 Mbit/s  
95th percentile per-packet one-way delay: 54.769 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 15.54 Mbit/s  
95th percentile per-packet one-way delay: 50.663 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 28.00 Mbit/s  
95th percentile per-packet one-way delay: 55.367 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 60.93 Mbit/s  
95th percentile per-packet one-way delay: 54.650 ms  
Loss rate: 1.76%

# Run 8: Report of TCP Vegas — Data Link

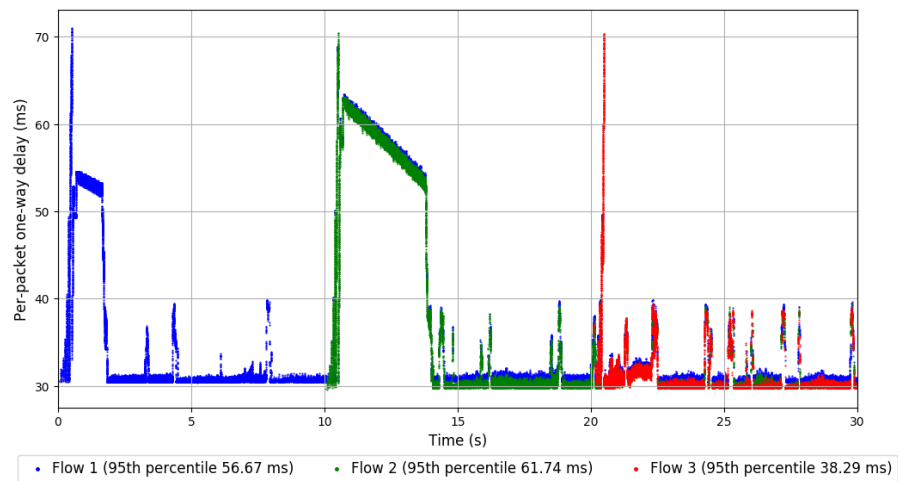
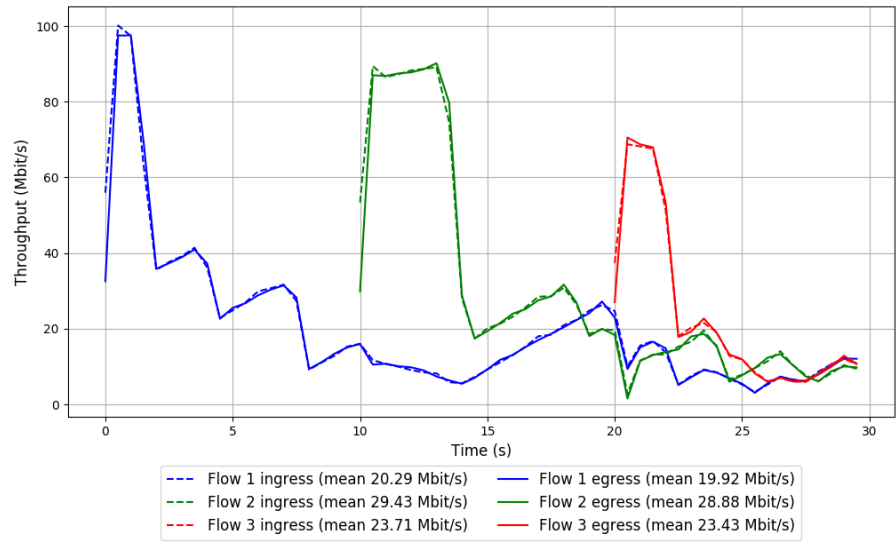


Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 18:32:06  
End at: 2018-02-16 18:32:36  
Local clock offset: -0.08 ms  
Remote clock offset: -1.248 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.91 Mbit/s  
95th percentile per-packet one-way delay: 60.804 ms  
Loss rate: 1.75%  
-- Flow 1:  
Average throughput: 19.92 Mbit/s  
95th percentile per-packet one-way delay: 56.666 ms  
Loss rate: 1.85%  
-- Flow 2:  
Average throughput: 28.88 Mbit/s  
95th percentile per-packet one-way delay: 61.739 ms  
Loss rate: 1.86%  
-- Flow 3:  
Average throughput: 23.43 Mbit/s  
95th percentile per-packet one-way delay: 38.286 ms  
Loss rate: 1.19%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 18:57:23

End at: 2018-02-16 18:57:53

Local clock offset: 0.343 ms

Remote clock offset: -8.11 ms

# Below is generated by plot.py at 2018-02-16 19:51:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 29.96 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 32.60 Mbit/s

95th percentile per-packet one-way delay: 62.377 ms

Loss rate: 1.21%

-- Flow 3:

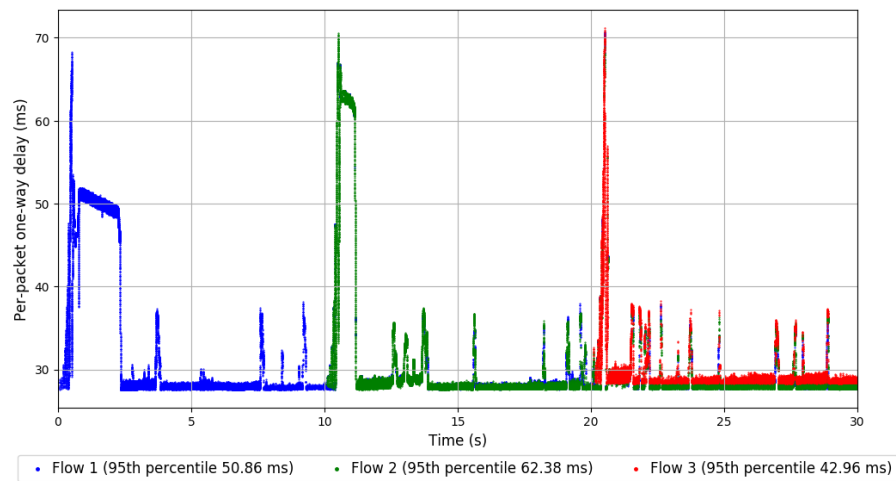
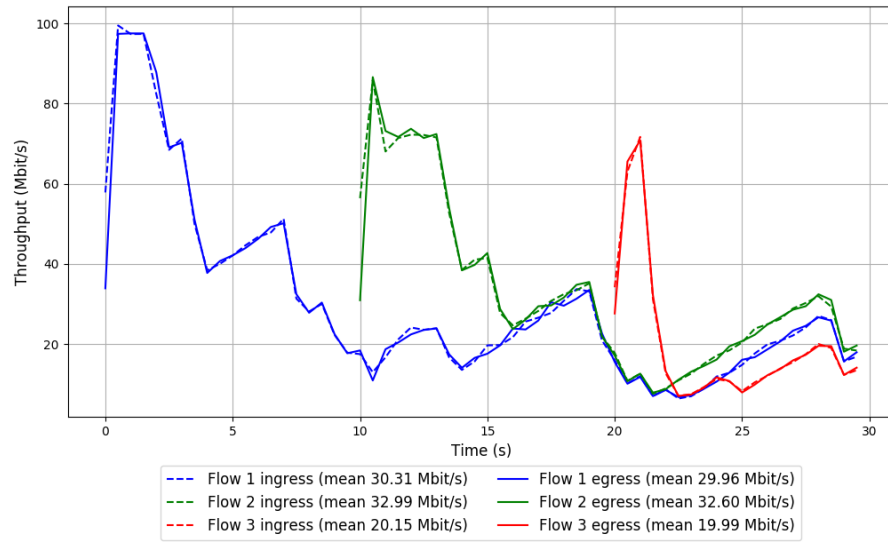
Average throughput: 19.99 Mbit/s

95th percentile per-packet one-way delay: 42.961 ms

Loss rate: 0.79%



# Run 10: Report of TCP Vegas — Data Link

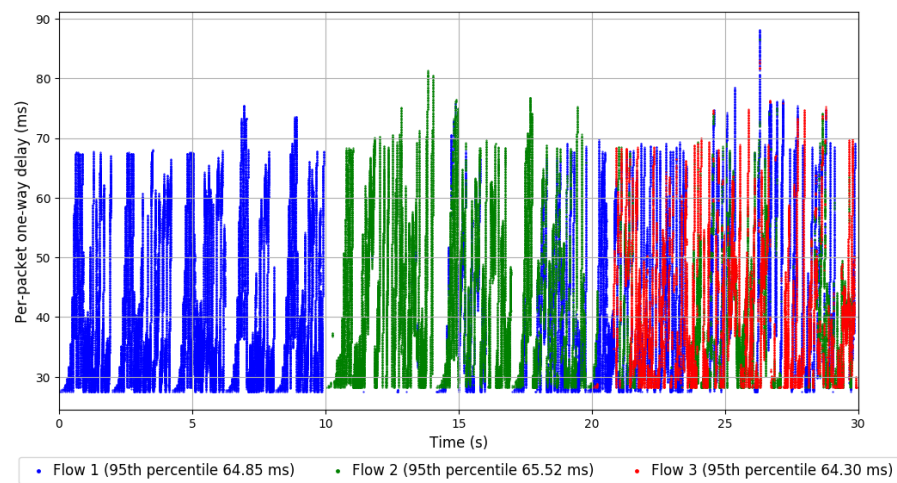
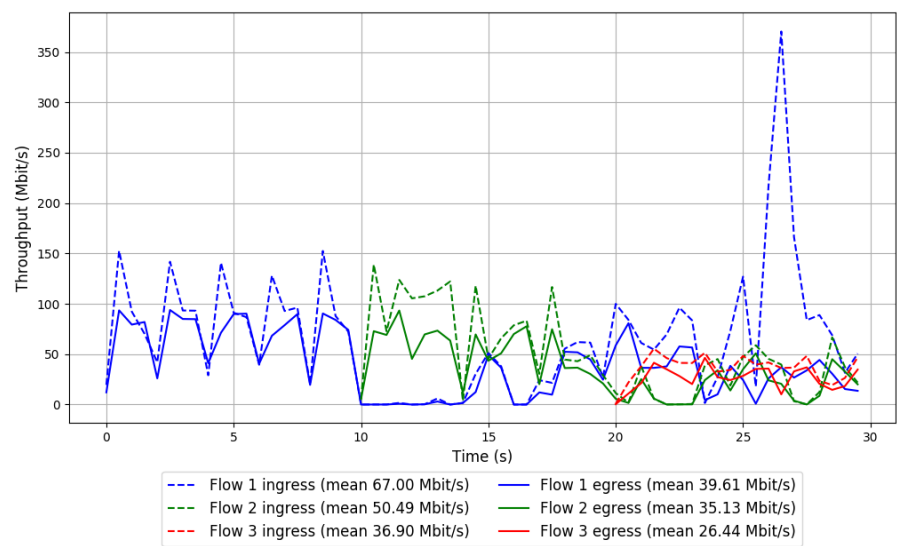


Run 1: Statistics of Verus

Start at: 2018-02-16 14:49:46  
End at: 2018-02-16 14:50:16  
Local clock offset: 0.296 ms  
Remote clock offset: -6.659 ms

# Below is generated by plot.py at 2018-02-16 19:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.45 Mbit/s  
95th percentile per-packet one-way delay: 64.956 ms  
Loss rate: 36.38%  
-- Flow 1:  
Average throughput: 39.61 Mbit/s  
95th percentile per-packet one-way delay: 64.851 ms  
Loss rate: 40.86%  
-- Flow 2:  
Average throughput: 35.13 Mbit/s  
95th percentile per-packet one-way delay: 65.516 ms  
Loss rate: 30.34%  
-- Flow 3:  
Average throughput: 26.44 Mbit/s  
95th percentile per-packet one-way delay: 64.304 ms  
Loss rate: 28.36%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 15:16:21

End at: 2018-02-16 15:16:51

Local clock offset: 0.361 ms

Remote clock offset: -7.3 ms

# Below is generated by plot.py at 2018-02-16 19:51:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.21 Mbit/s

95th percentile per-packet one-way delay: 65.397 ms

Loss rate: 25.93%

-- Flow 1:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 66.002 ms

Loss rate: 23.56%

-- Flow 2:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 64.541 ms

Loss rate: 31.20%

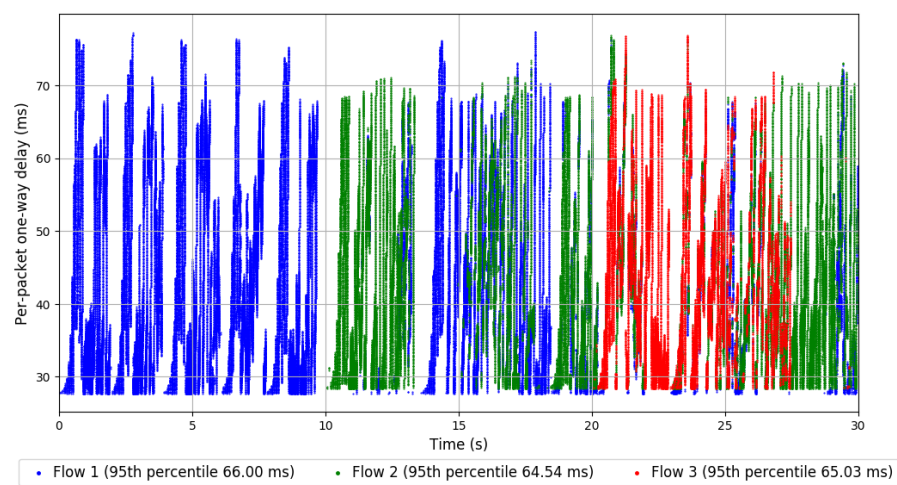
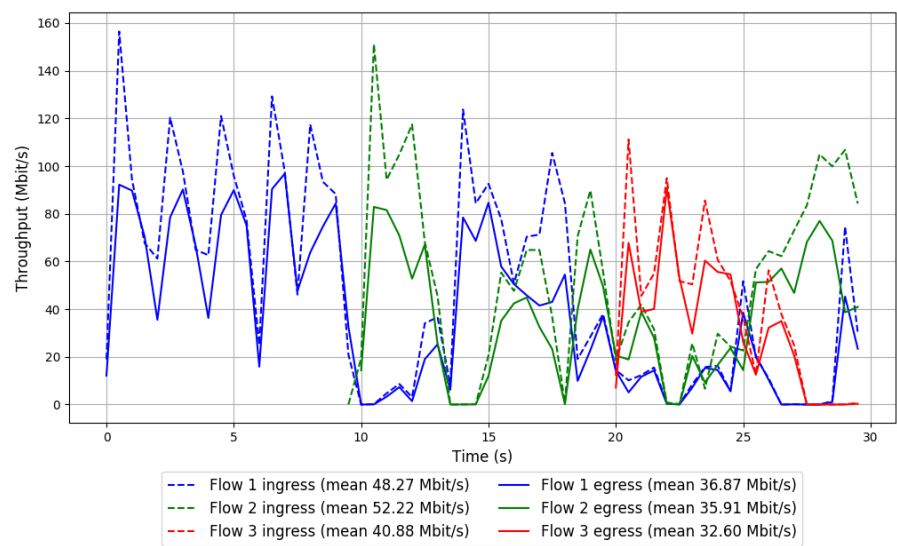
-- Flow 3:

Average throughput: 32.60 Mbit/s

95th percentile per-packet one-way delay: 65.033 ms

Loss rate: 20.70%

Run 2: Report of Verus — Data Link

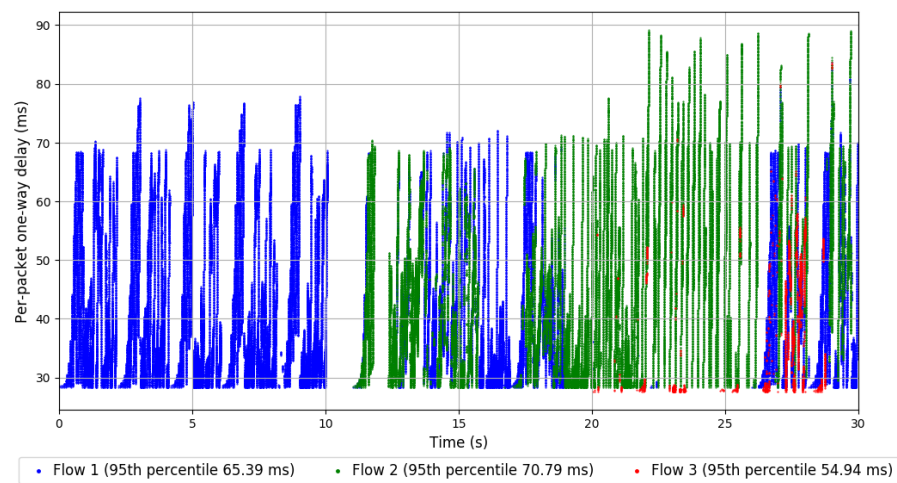
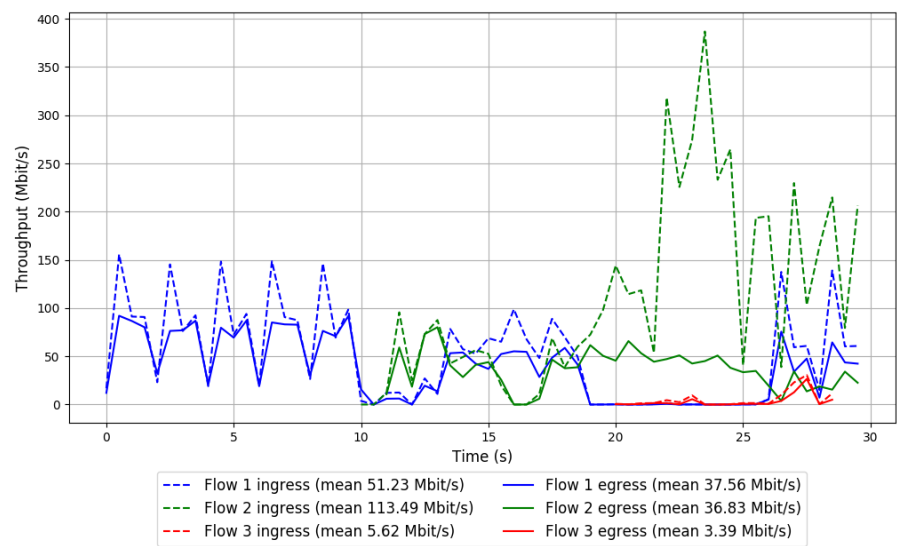


Run 3: Statistics of Verus

Start at: 2018-02-16 15:42:29  
End at: 2018-02-16 15:42:59  
Local clock offset: -0.255 ms  
Remote clock offset: -7.526 ms

# Below is generated by plot.py at 2018-02-16 19:51:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.56 Mbit/s  
95th percentile per-packet one-way delay: 67.308 ms  
Loss rate: 51.68%  
-- Flow 1:  
Average throughput: 37.56 Mbit/s  
95th percentile per-packet one-way delay: 65.394 ms  
Loss rate: 26.64%  
-- Flow 2:  
Average throughput: 36.83 Mbit/s  
95th percentile per-packet one-way delay: 70.794 ms  
Loss rate: 69.15%  
-- Flow 3:  
Average throughput: 3.39 Mbit/s  
95th percentile per-packet one-way delay: 54.940 ms  
Loss rate: 39.35%

Run 3: Report of Verus — Data Link



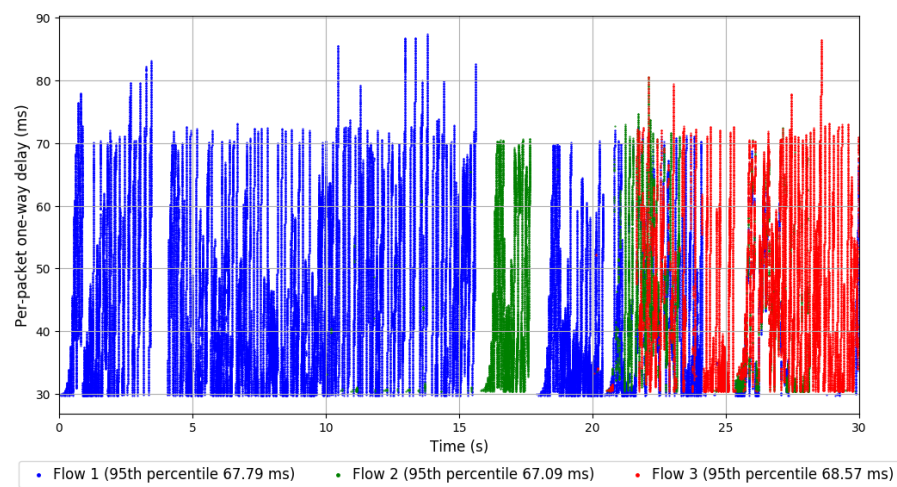
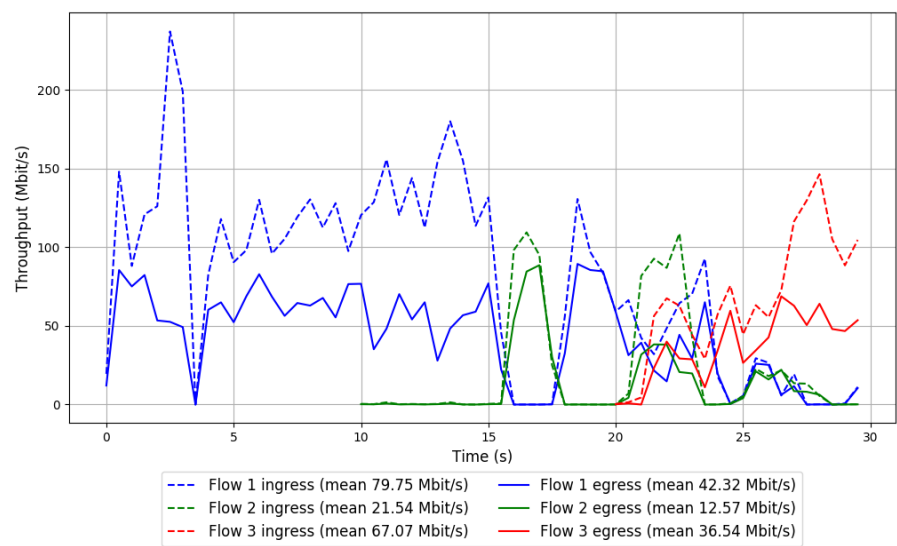
Run 4: Statistics of Verus

Start at: 2018-02-16 16:07:23  
End at: 2018-02-16 16:07:53  
Local clock offset: -0.355 ms  
Remote clock offset: -3.606 ms

# Below is generated by plot.py at 2018-02-16 19:51:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.76 Mbit/s  
95th percentile per-packet one-way delay: 67.835 ms  
Loss rate: 45.93%  
-- Flow 1:  
Average throughput: 42.32 Mbit/s  
95th percentile per-packet one-way delay: 67.792 ms  
Loss rate: 46.88%  
-- Flow 2:  
Average throughput: 12.57 Mbit/s  
95th percentile per-packet one-way delay: 67.090 ms  
Loss rate: 41.60%  
-- Flow 3:  
Average throughput: 36.54 Mbit/s  
95th percentile per-packet one-way delay: 68.568 ms  
Loss rate: 45.32%



Run 4: Report of Verus — Data Link

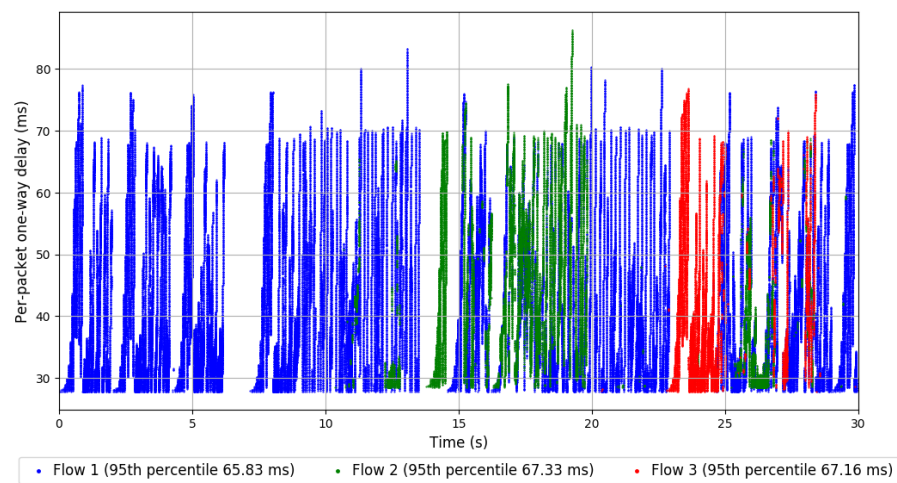
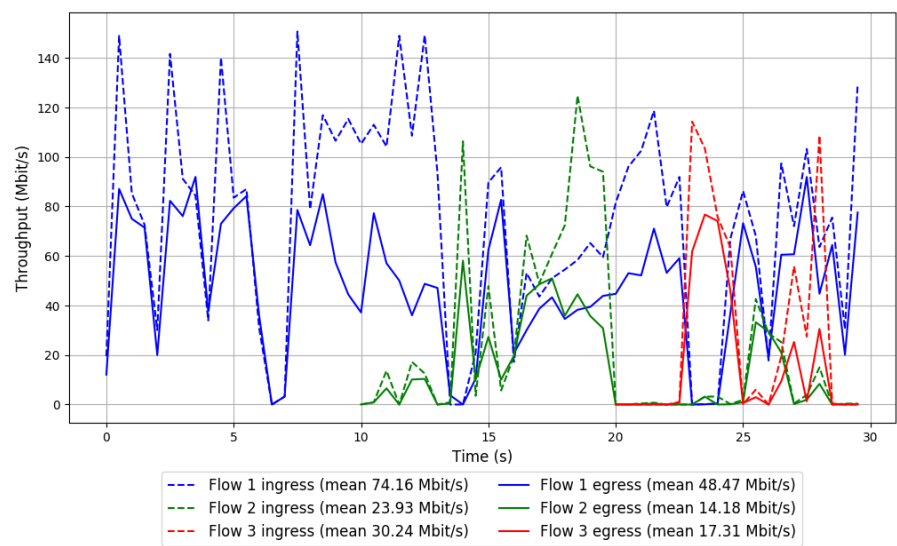


Run 5: Statistics of Verus

Start at: 2018-02-16 16:33:40  
End at: 2018-02-16 16:34:10  
Local clock offset: -0.475 ms  
Remote clock offset: -6.149 ms

# Below is generated by plot.py at 2018-02-16 19:51:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.08 Mbit/s  
95th percentile per-packet one-way delay: 66.163 ms  
Loss rate: 36.40%  
-- Flow 1:  
Average throughput: 48.47 Mbit/s  
95th percentile per-packet one-way delay: 65.826 ms  
Loss rate: 34.63%  
-- Flow 2:  
Average throughput: 14.18 Mbit/s  
95th percentile per-packet one-way delay: 67.329 ms  
Loss rate: 40.93%  
-- Flow 3:  
Average throughput: 17.31 Mbit/s  
95th percentile per-packet one-way delay: 67.160 ms  
Loss rate: 42.76%

Run 5: Report of Verus — Data Link

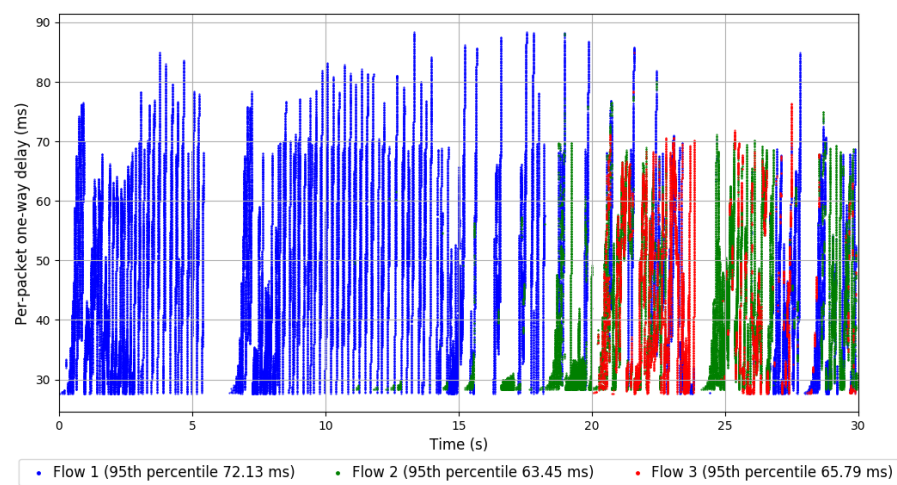
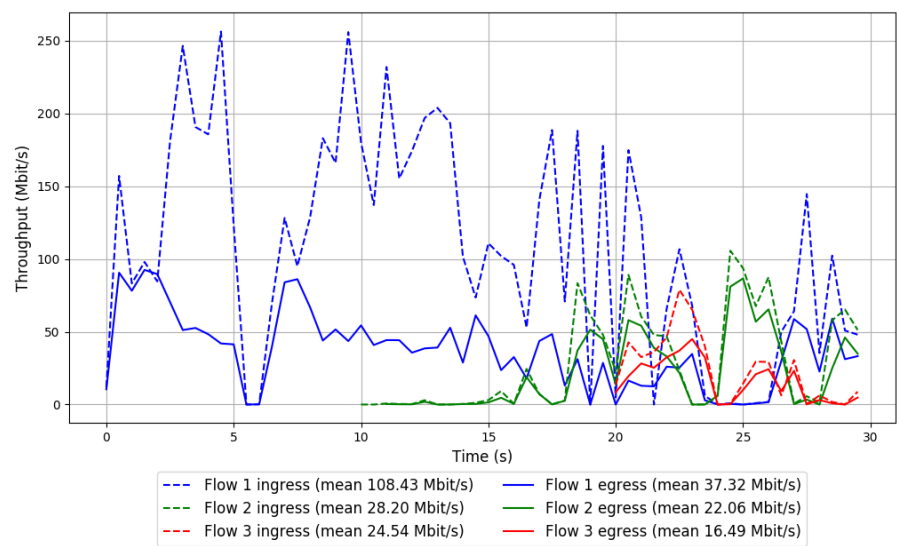


Run 6: Statistics of Verus

Start at: 2018-02-16 16:59:27  
End at: 2018-02-16 16:59:57  
Local clock offset: 0.479 ms  
Remote clock offset: -6.795 ms

# Below is generated by plot.py at 2018-02-16 19:52:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.65 Mbit/s  
95th percentile per-packet one-way delay: 69.117 ms  
Loss rate: 58.06%  
-- Flow 1:  
Average throughput: 37.32 Mbit/s  
95th percentile per-packet one-way delay: 72.133 ms  
Loss rate: 65.56%  
-- Flow 2:  
Average throughput: 22.06 Mbit/s  
95th percentile per-packet one-way delay: 63.445 ms  
Loss rate: 25.73%  
-- Flow 3:  
Average throughput: 16.49 Mbit/s  
95th percentile per-packet one-way delay: 65.792 ms  
Loss rate: 32.68%

Run 6: Report of Verus — Data Link

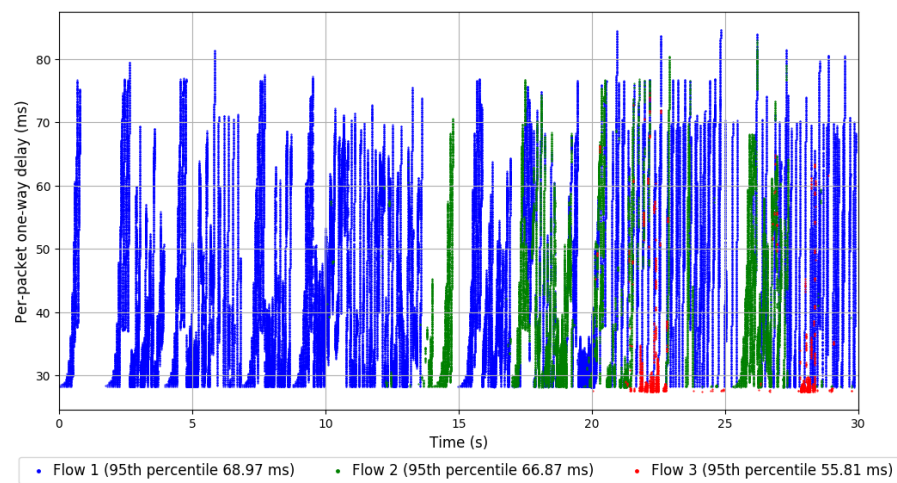
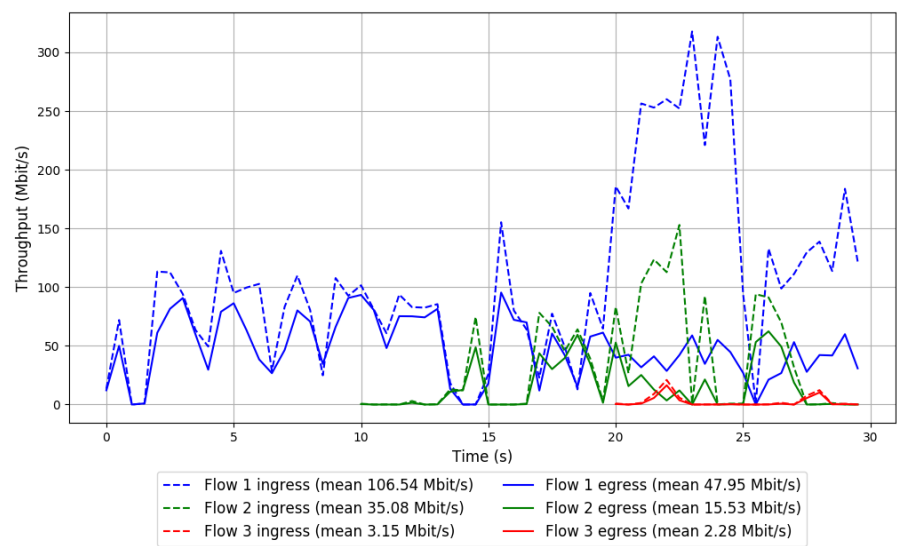


Run 7: Statistics of Verus

Start at: 2018-02-16 17:28:24  
End at: 2018-02-16 17:28:54  
Local clock offset: 0.513 ms  
Remote clock offset: -7.572 ms

# Below is generated by plot.py at 2018-02-16 19:52:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.93 Mbit/s  
95th percentile per-packet one-way delay: 68.642 ms  
Loss rate: 54.90%  
-- Flow 1:  
Average throughput: 47.95 Mbit/s  
95th percentile per-packet one-way delay: 68.972 ms  
Loss rate: 54.95%  
-- Flow 2:  
Average throughput: 15.53 Mbit/s  
95th percentile per-packet one-way delay: 66.869 ms  
Loss rate: 55.87%  
-- Flow 3:  
Average throughput: 2.28 Mbit/s  
95th percentile per-packet one-way delay: 55.807 ms  
Loss rate: 27.98%

Run 7: Report of Verus — Data Link



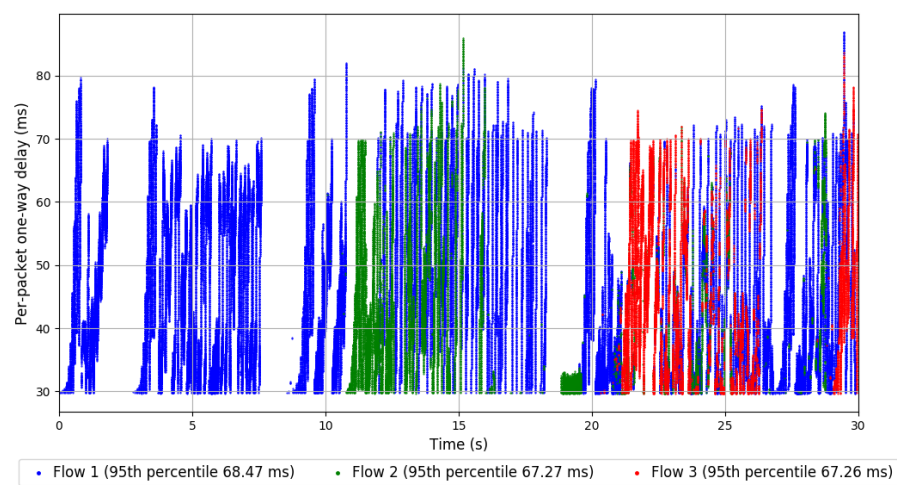
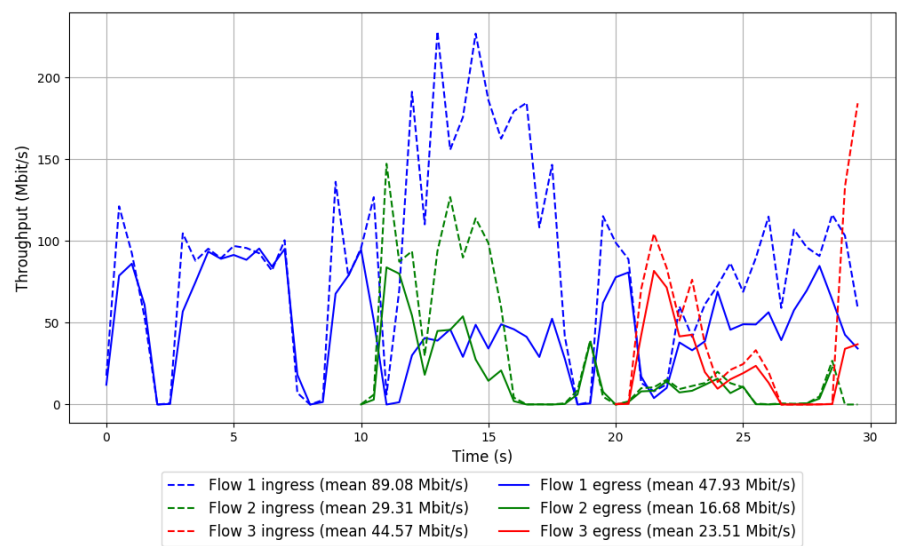
Run 8: Statistics of Verus

Start at: 2018-02-16 17:56:08  
End at: 2018-02-16 17:56:38  
Local clock offset: 0.441 ms  
Remote clock offset: -3.237 ms

# Below is generated by plot.py at 2018-02-16 19:52:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.78 Mbit/s  
95th percentile per-packet one-way delay: 68.098 ms  
Loss rate: 46.26%  
-- Flow 1:  
Average throughput: 47.93 Mbit/s  
95th percentile per-packet one-way delay: 68.471 ms  
Loss rate: 46.20%  
-- Flow 2:  
Average throughput: 16.68 Mbit/s  
95th percentile per-packet one-way delay: 67.267 ms  
Loss rate: 45.97%  
-- Flow 3:  
Average throughput: 23.51 Mbit/s  
95th percentile per-packet one-way delay: 67.258 ms  
Loss rate: 47.04%



Run 8: Report of Verus — Data Link

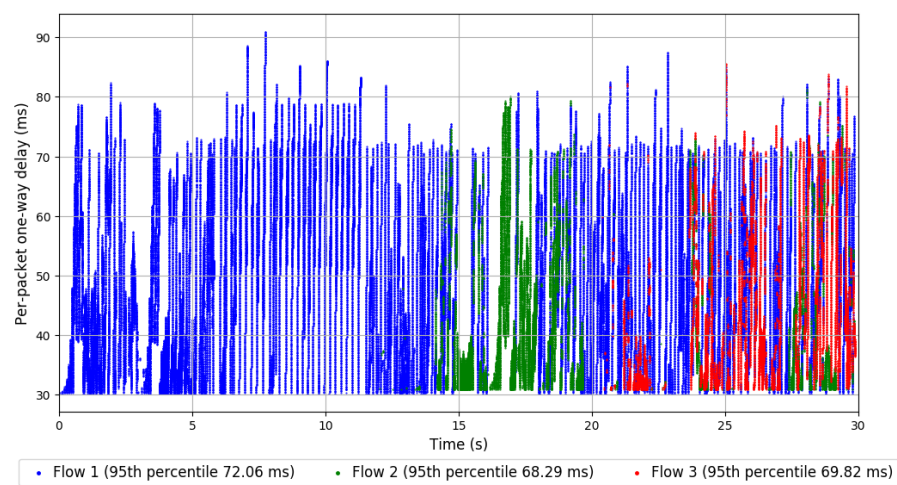
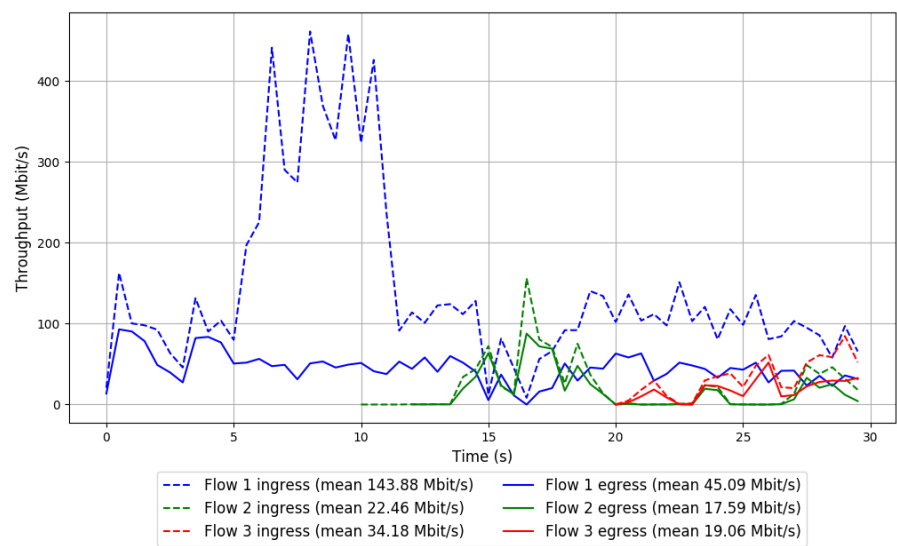


Run 9: Statistics of Verus

Start at: 2018-02-16 18:22:32  
End at: 2018-02-16 18:23:02  
Local clock offset: 0.156 ms  
Remote clock offset: -1.091 ms

# Below is generated by plot.py at 2018-02-16 19:52:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.60 Mbit/s  
95th percentile per-packet one-way delay: 71.302 ms  
Loss rate: 63.63%  
-- Flow 1:  
Average throughput: 45.09 Mbit/s  
95th percentile per-packet one-way delay: 72.058 ms  
Loss rate: 68.62%  
-- Flow 2:  
Average throughput: 17.59 Mbit/s  
95th percentile per-packet one-way delay: 68.288 ms  
Loss rate: 29.89%  
-- Flow 3:  
Average throughput: 19.06 Mbit/s  
95th percentile per-packet one-way delay: 69.820 ms  
Loss rate: 44.35%

Run 9: Report of Verus — Data Link

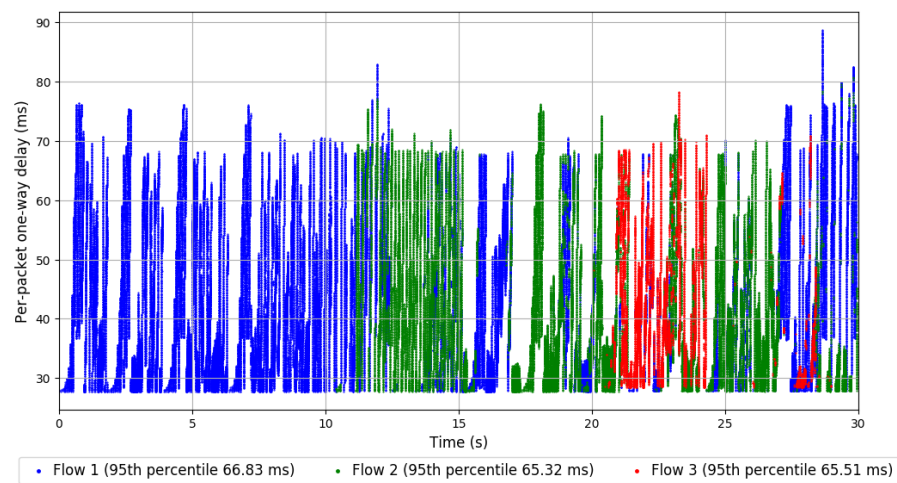
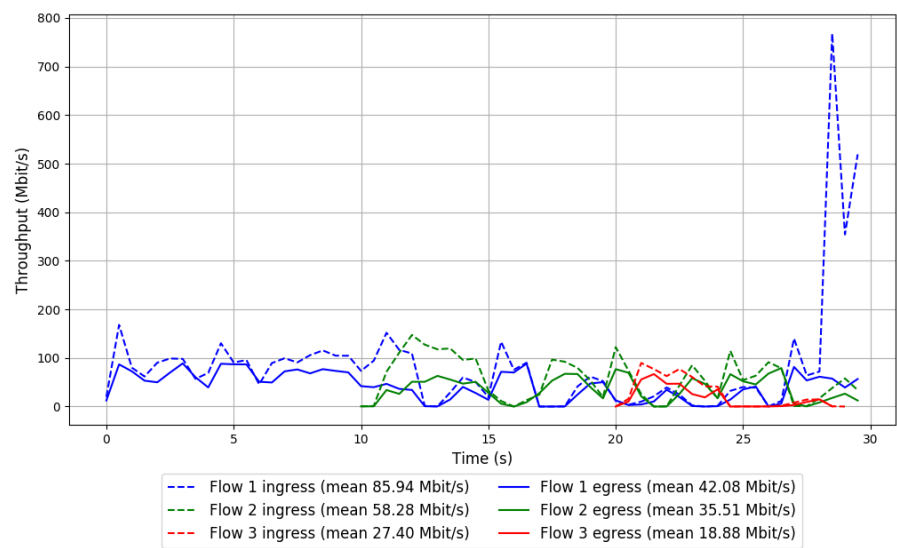


Run 10: Statistics of Verus

Start at: 2018-02-16 18:47:49  
End at: 2018-02-16 18:48:19  
Local clock offset: -0.188 ms  
Remote clock offset: -6.895 ms

# Below is generated by plot.py at 2018-02-16 19:52:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.95 Mbit/s  
95th percentile per-packet one-way delay: 66.237 ms  
Loss rate: 46.43%  
-- Flow 1:  
Average throughput: 42.08 Mbit/s  
95th percentile per-packet one-way delay: 66.828 ms  
Loss rate: 50.97%  
-- Flow 2:  
Average throughput: 35.51 Mbit/s  
95th percentile per-packet one-way delay: 65.321 ms  
Loss rate: 39.07%  
-- Flow 3:  
Average throughput: 18.88 Mbit/s  
95th percentile per-packet one-way delay: 65.513 ms  
Loss rate: 33.66%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-16 15:05:41

End at: 2018-02-16 15:06:11

Local clock offset: 0.293 ms

Remote clock offset: -4.17 ms

# Below is generated by plot.py at 2018-02-16 20:00:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.07 Mbit/s

95th percentile per-packet one-way delay: 55.281 ms

Loss rate: 90.68%

-- Flow 1:

Average throughput: 84.06 Mbit/s

95th percentile per-packet one-way delay: 55.281 ms

Loss rate: 90.68%

-- Flow 2:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 93.69%

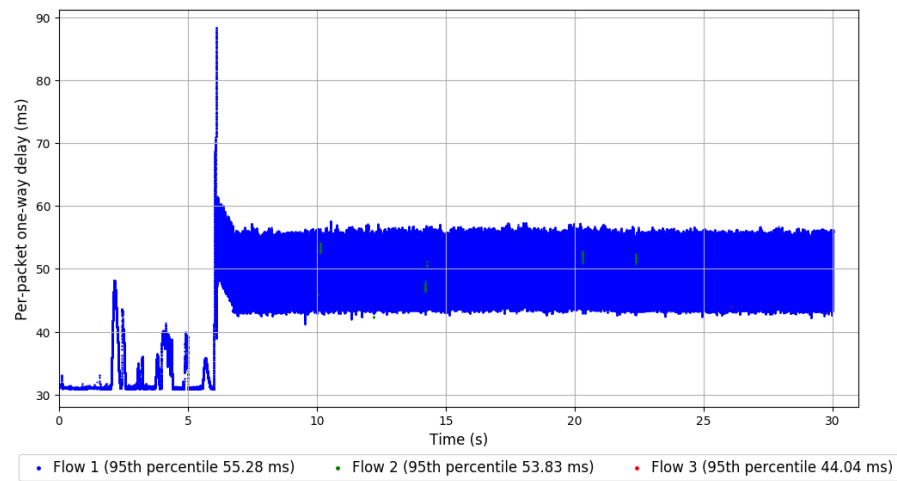
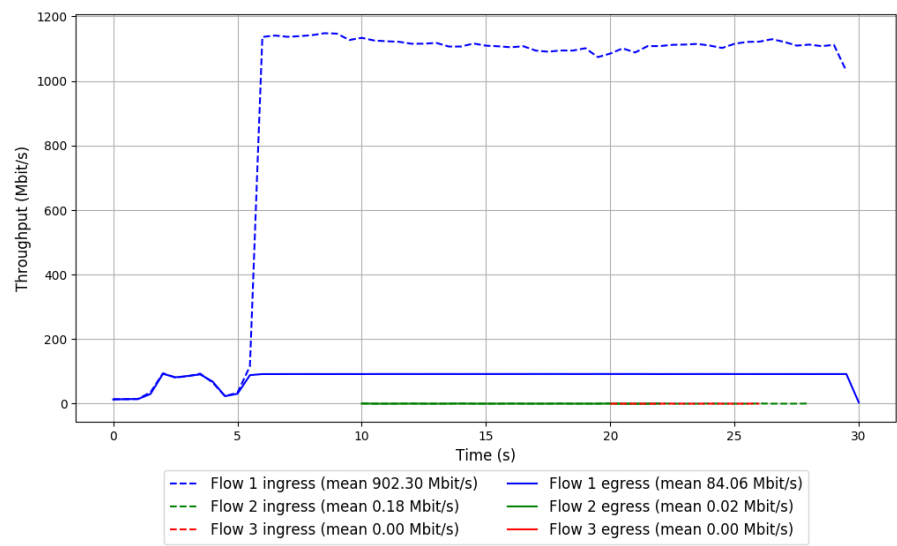
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 44.042 ms

Loss rate: 75.00%

Run 1: Report of Copa — Data Link



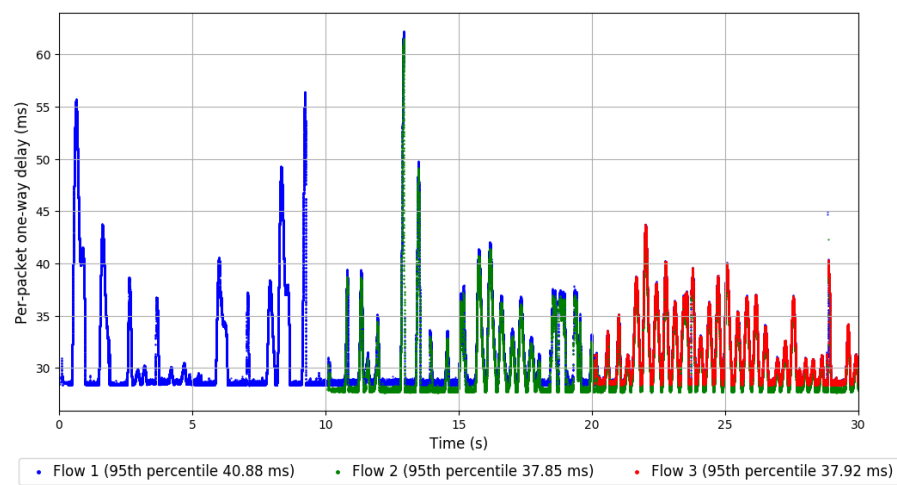
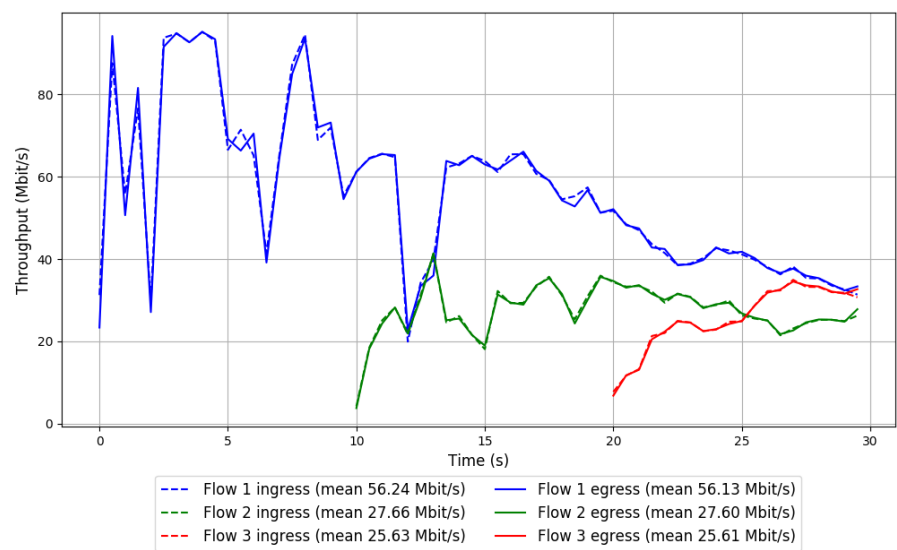
Run 2: Statistics of Copa

Start at: 2018-02-16 15:32:17  
End at: 2018-02-16 15:32:47  
Local clock offset: 0.003 ms  
Remote clock offset: -7.639 ms

# Below is generated by plot.py at 2018-02-16 20:00:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.00 Mbit/s  
95th percentile per-packet one-way delay: 39.900 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 56.13 Mbit/s  
95th percentile per-packet one-way delay: 40.875 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 27.60 Mbit/s  
95th percentile per-packet one-way delay: 37.848 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 25.61 Mbit/s  
95th percentile per-packet one-way delay: 37.920 ms  
Loss rate: 0.05%



Run 2: Report of Copa — Data Link

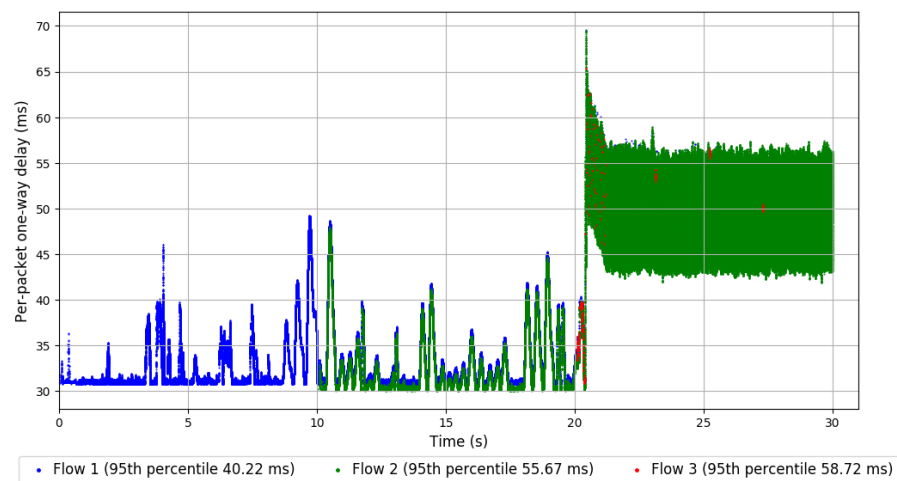
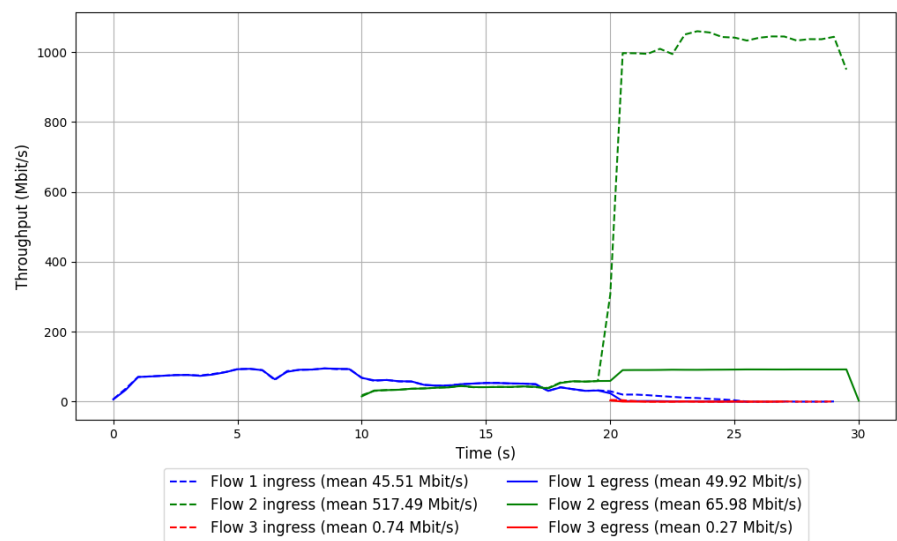


Run 3: Statistics of Copa

Start at: 2018-02-16 15:57:28  
End at: 2018-02-16 15:57:58  
Local clock offset: -0.279 ms  
Remote clock offset: -3.646 ms

# Below is generated by plot.py at 2018-02-16 20:00:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.55 Mbit/s  
95th percentile per-packet one-way delay: 55.132 ms  
Loss rate: 77.77%  
-- Flow 1:  
Average throughput: 49.92 Mbit/s  
95th percentile per-packet one-way delay: 40.222 ms  
Loss rate: 4.90%  
-- Flow 2:  
Average throughput: 65.98 Mbit/s  
95th percentile per-packet one-way delay: 55.675 ms  
Loss rate: 87.24%  
-- Flow 3:  
Average throughput: 0.27 Mbit/s  
95th percentile per-packet one-way delay: 58.717 ms  
Loss rate: 71.11%

Run 3: Report of Copa — Data Link

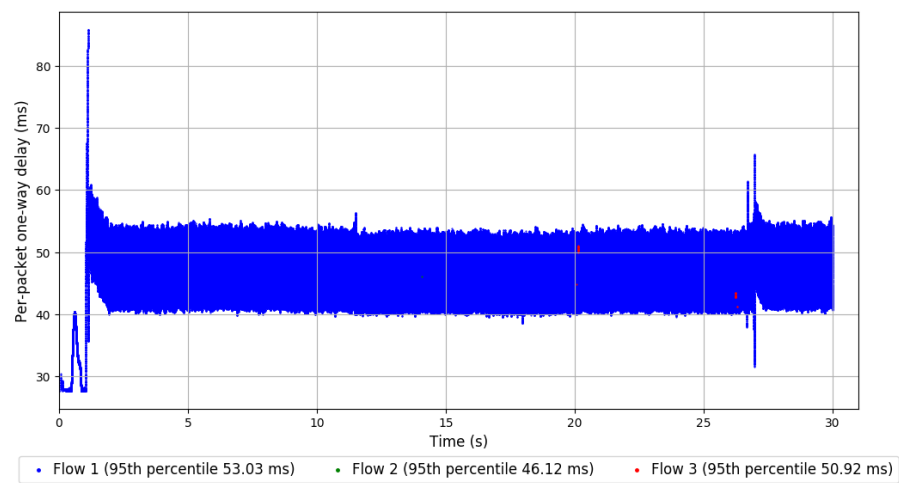
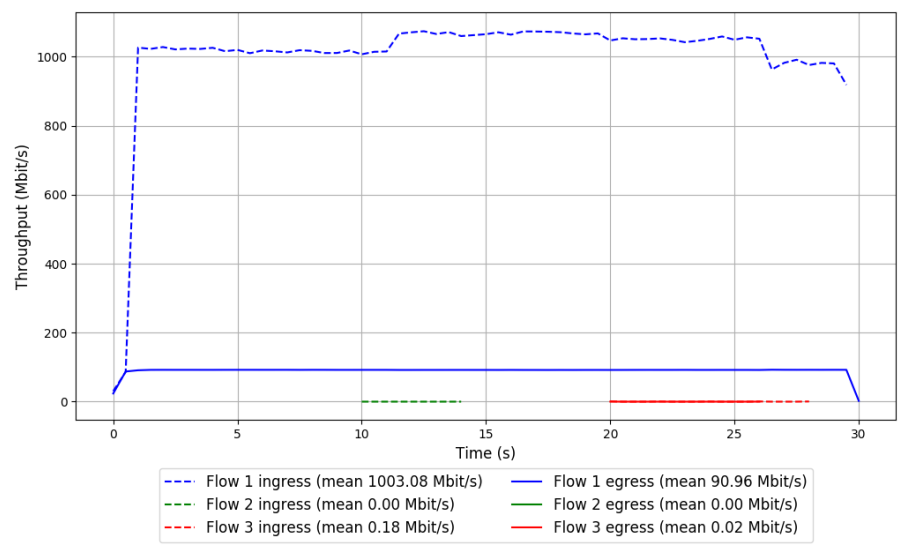


Run 4: Statistics of Copa

Start at: 2018-02-16 16:22:51  
End at: 2018-02-16 16:23:21  
Local clock offset: -0.446 ms  
Remote clock offset: -5.854 ms

# Below is generated by plot.py at 2018-02-16 20:01:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.96 Mbit/s  
95th percentile per-packet one-way delay: 53.035 ms  
Loss rate: 90.93%  
-- Flow 1:  
Average throughput: 90.96 Mbit/s  
95th percentile per-packet one-way delay: 53.035 ms  
Loss rate: 90.93%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 46.117 ms  
Loss rate: 66.67%  
-- Flow 3:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 50.917 ms  
Loss rate: 93.38%

Run 4: Report of Copa — Data Link

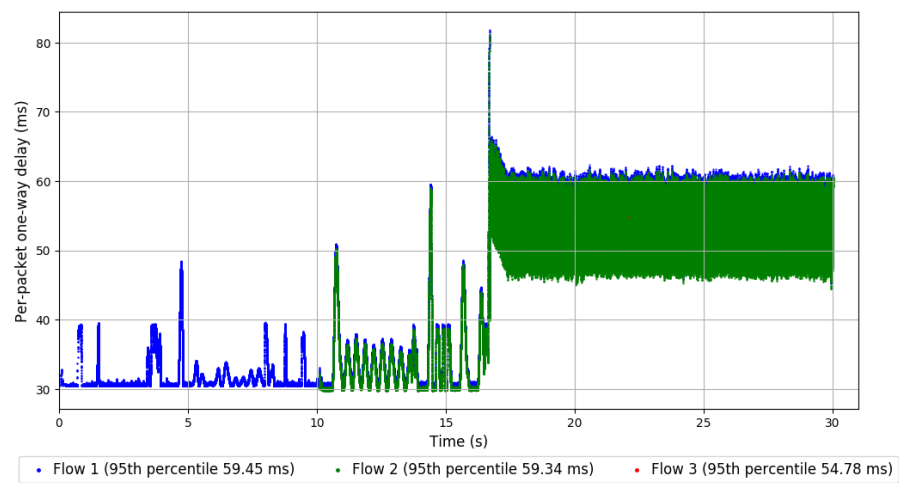
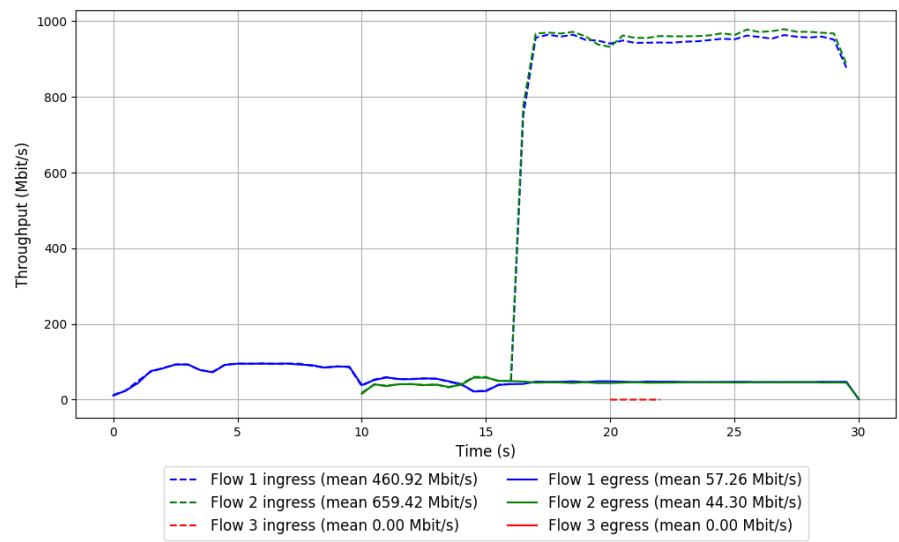


Run 5: Statistics of Copa

Start at: 2018-02-16 16:49:01  
End at: 2018-02-16 16:49:31  
Local clock offset: 0.343 ms  
Remote clock offset: -4.429 ms

# Below is generated by plot.py at 2018-02-16 20:01:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.74 Mbit/s  
95th percentile per-packet one-way delay: 59.396 ms  
Loss rate: 90.35%  
-- Flow 1:  
Average throughput: 57.26 Mbit/s  
95th percentile per-packet one-way delay: 59.452 ms  
Loss rate: 87.57%  
-- Flow 2:  
Average throughput: 44.30 Mbit/s  
95th percentile per-packet one-way delay: 59.339 ms  
Loss rate: 93.27%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 54.777 ms  
Loss rate: 50.00%

Run 5: Report of Copa — Data Link



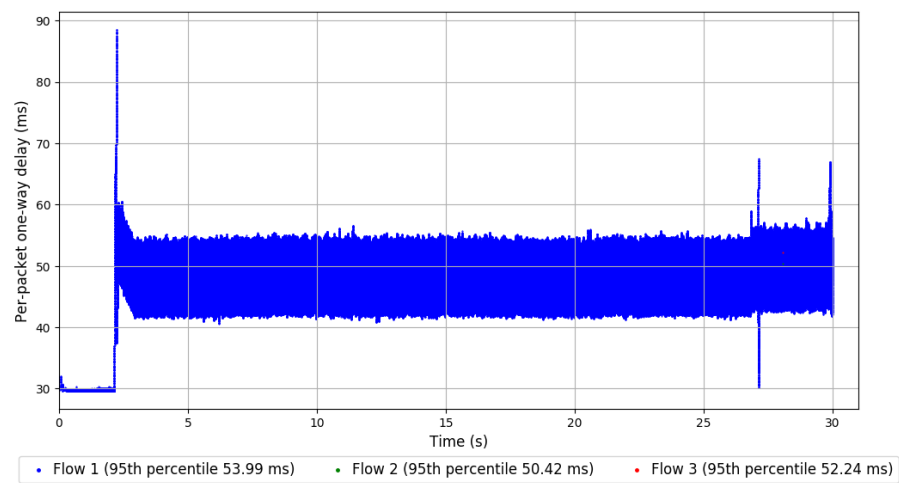
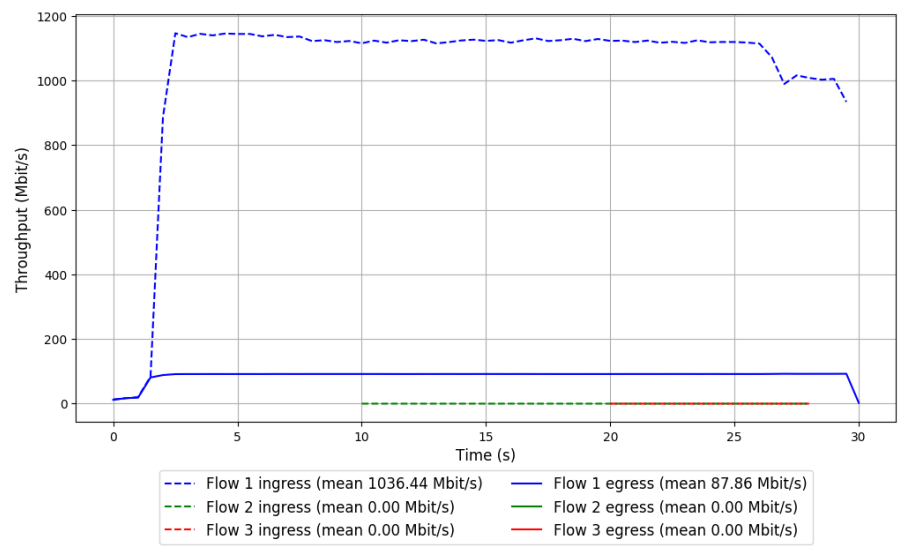
Run 6: Statistics of Copa

Start at: 2018-02-16 17:16:29  
End at: 2018-02-16 17:16:59  
Local clock offset: 0.523 ms  
Remote clock offset: -5.741 ms

# Below is generated by plot.py at 2018-02-16 20:02:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.86 Mbit/s  
95th percentile per-packet one-way delay: 53.991 ms  
Loss rate: 91.52%  
-- Flow 1:  
Average throughput: 87.86 Mbit/s  
95th percentile per-packet one-way delay: 53.991 ms  
Loss rate: 91.52%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.418 ms  
Loss rate: 90.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 52.244 ms  
Loss rate: 80.00%



Run 6: Report of Copa — Data Link

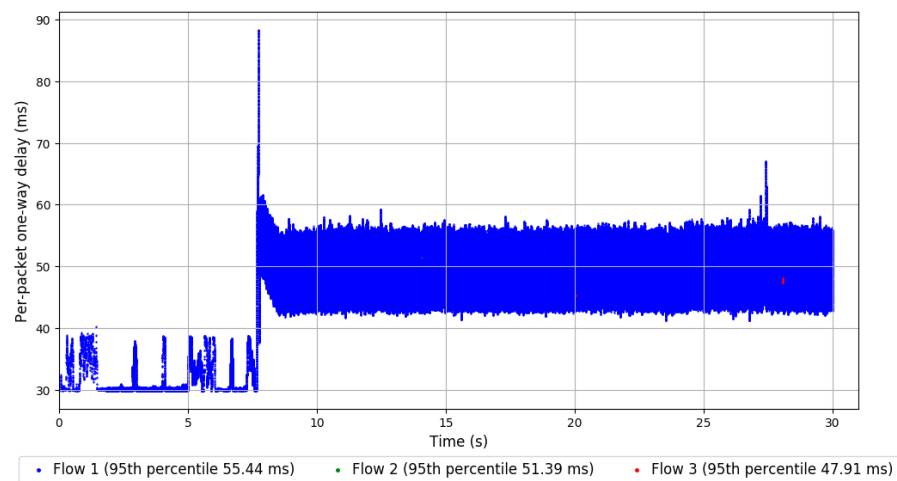
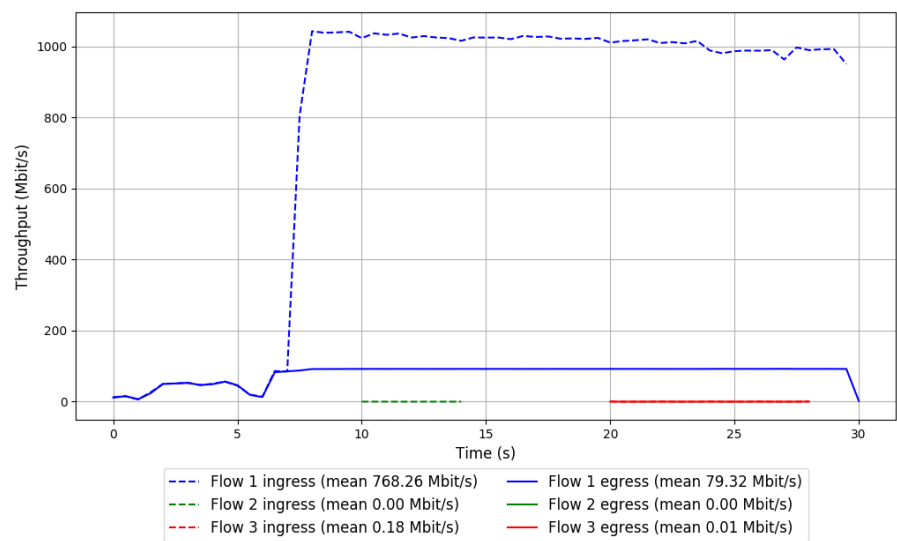


Run 7: Statistics of Copa

Start at: 2018-02-16 17:45:28  
End at: 2018-02-16 17:45:58  
Local clock offset: 0.378 ms  
Remote clock offset: -3.798 ms

# Below is generated by plot.py at 2018-02-16 20:02:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.32 Mbit/s  
95th percentile per-packet one-way delay: 55.440 ms  
Loss rate: 89.67%  
-- Flow 1:  
Average throughput: 79.32 Mbit/s  
95th percentile per-packet one-way delay: 55.440 ms  
Loss rate: 89.67%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.394 ms  
Loss rate: 66.67%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 47.909 ms  
Loss rate: 96.19%

Run 7: Report of Copa — Data Link

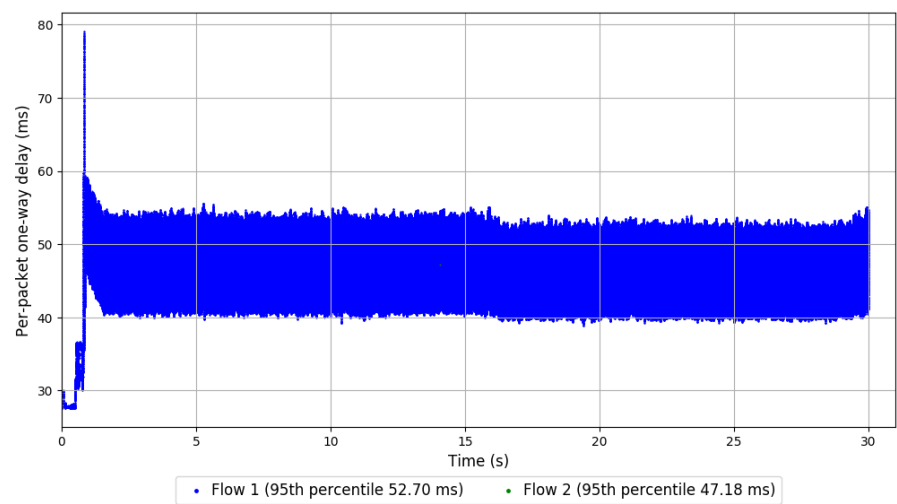
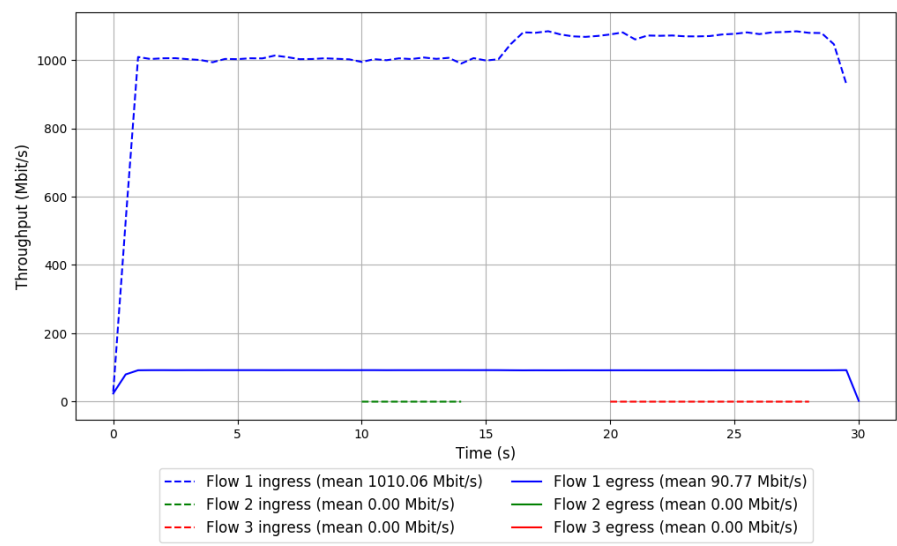


Run 8: Statistics of Copa

Start at: 2018-02-16 18:12:13  
End at: 2018-02-16 18:12:43  
Local clock offset: 0.418 ms  
Remote clock offset: -4.459 ms

# Below is generated by plot.py at 2018-02-16 20:02:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 52.705 ms  
Loss rate: 91.01%  
-- Flow 1:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 52.705 ms  
Loss rate: 91.01%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 47.184 ms  
Loss rate: 66.67%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s

Run 8: Report of Copa — Data Link

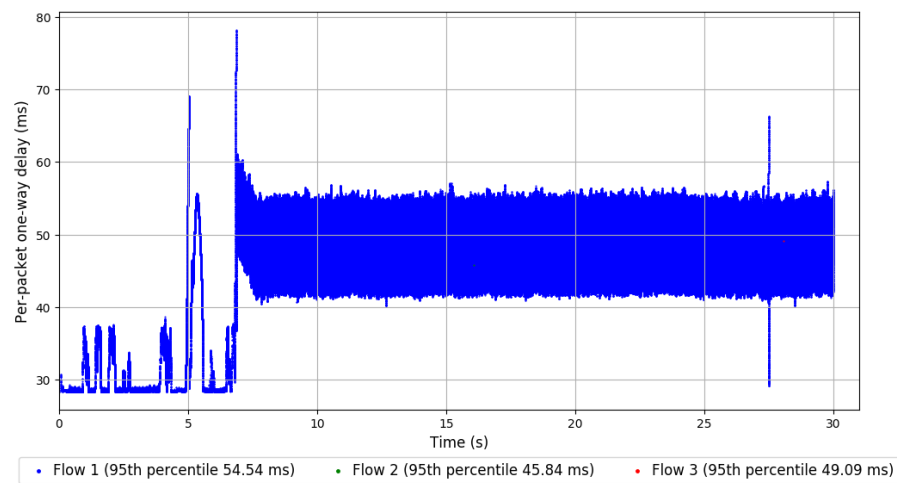
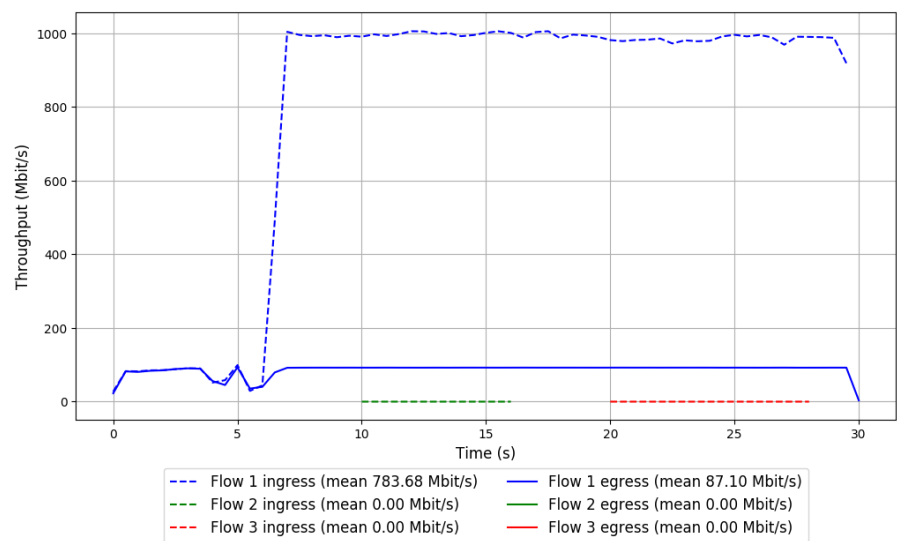


Run 9: Statistics of Copa

Start at: 2018-02-16 18:37:50  
End at: 2018-02-16 18:38:20  
Local clock offset: -0.044 ms  
Remote clock offset: -4.863 ms

# Below is generated by plot.py at 2018-02-16 20:02:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.10 Mbit/s  
95th percentile per-packet one-way delay: 54.540 ms  
Loss rate: 88.88%  
-- Flow 1:  
Average throughput: 87.10 Mbit/s  
95th percentile per-packet one-way delay: 54.540 ms  
Loss rate: 88.88%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 45.844 ms  
Loss rate: 75.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 49.088 ms  
Loss rate: 80.00%

Run 9: Report of Copa — Data Link



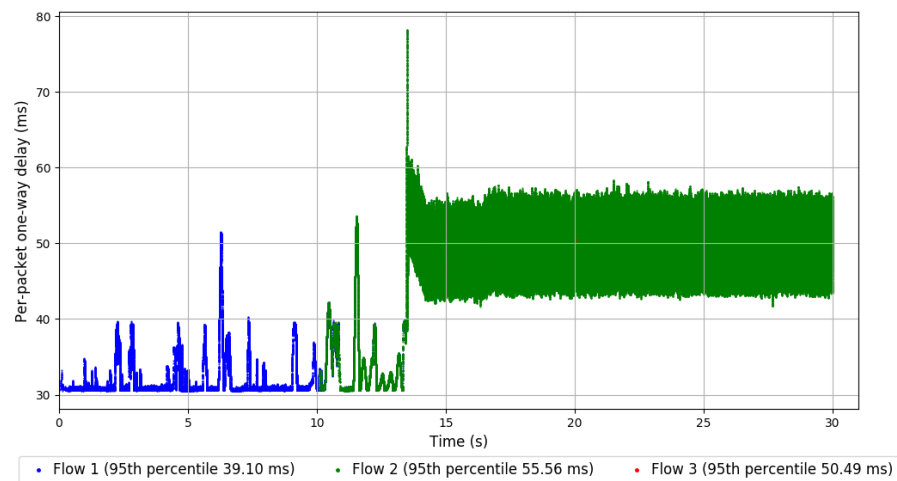
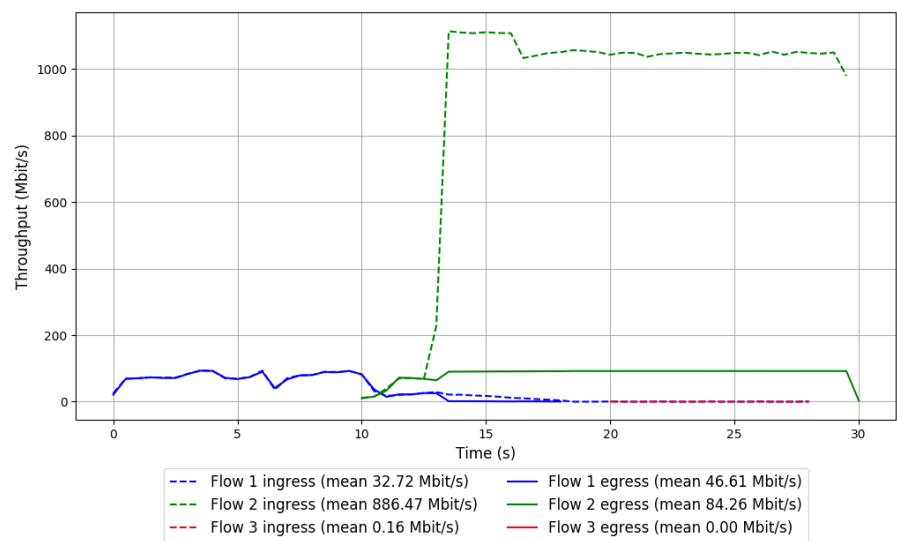
Run 10: Statistics of Copa

Start at: 2018-02-16 19:02:55  
End at: 2018-02-16 19:03:25  
Local clock offset: 0.484 ms  
Remote clock offset: -6.409 ms

# Below is generated by plot.py at 2018-02-16 20:02:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.80 Mbit/s  
95th percentile per-packet one-way delay: 55.330 ms  
Loss rate: 86.34%  
-- Flow 1:  
Average throughput: 46.61 Mbit/s  
95th percentile per-packet one-way delay: 39.096 ms  
Loss rate: 7.34%  
-- Flow 2:  
Average throughput: 84.26 Mbit/s  
95th percentile per-packet one-way delay: 55.560 ms  
Loss rate: 90.49%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.490 ms  
Loss rate: 99.92%



Run 10: Report of Copa — Data Link

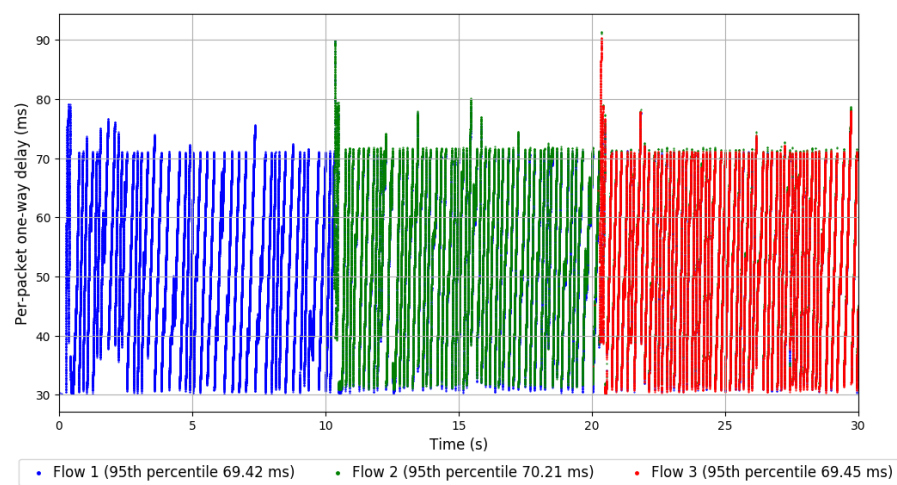
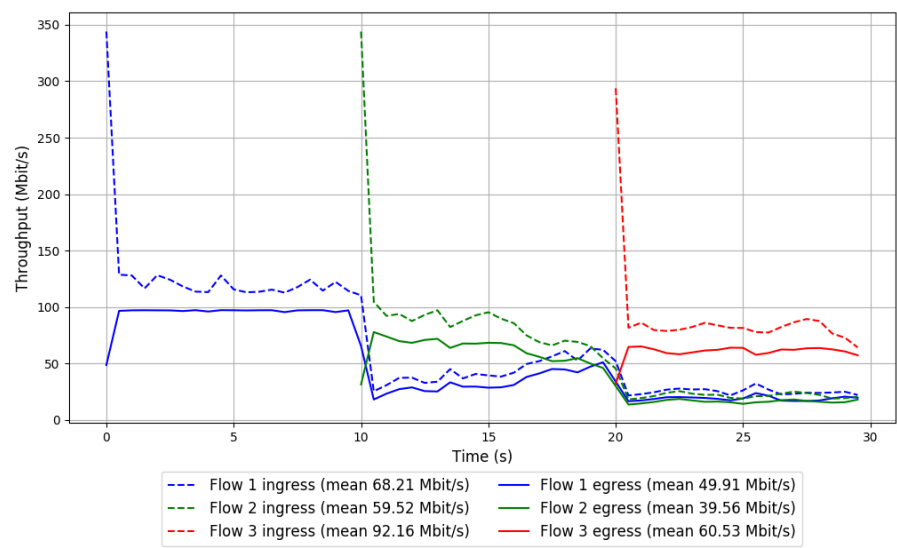


```
Run 1: Statistics of FillP

Start at: 2018-02-16 15:02:45
End at: 2018-02-16 15:03:15
Local clock offset: 0.329 ms
Remote clock offset: -4.08 ms

# Below is generated by plot.py at 2018-02-16 20:02:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 69.650 ms
Loss rate: 30.36%
-- Flow 1:
Average throughput: 49.91 Mbit/s
95th percentile per-packet one-way delay: 69.419 ms
Loss rate: 26.79%
-- Flow 2:
Average throughput: 39.56 Mbit/s
95th percentile per-packet one-way delay: 70.207 ms
Loss rate: 33.51%
-- Flow 3:
Average throughput: 60.53 Mbit/s
95th percentile per-packet one-way delay: 69.453 ms
Loss rate: 34.26%
```

Run 1: Report of FillP — Data Link

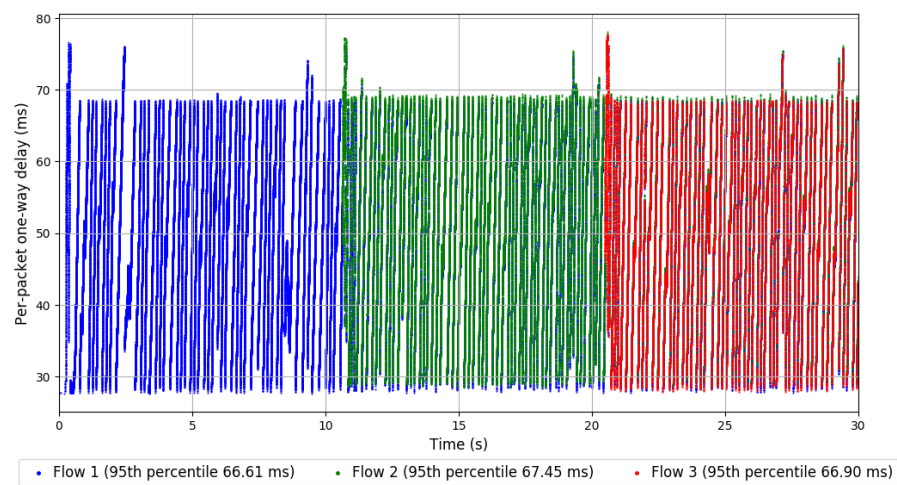
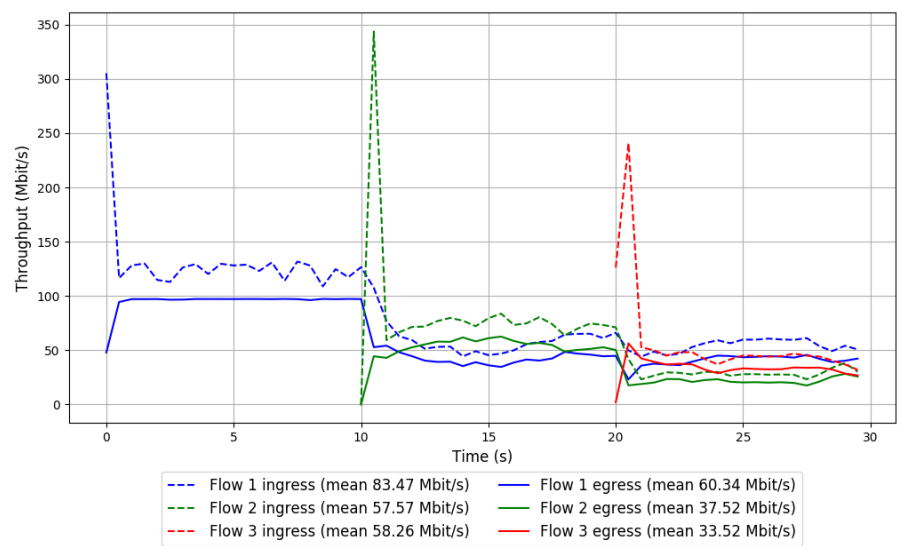


Run 2: Statistics of FillP

Start at: 2018-02-16 15:29:20  
End at: 2018-02-16 15:29:50  
Local clock offset: 0.1 ms  
Remote clock offset: -7.668 ms

# Below is generated by plot.py at 2018-02-16 20:02:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.40 Mbit/s  
95th percentile per-packet one-way delay: 66.876 ms  
Loss rate: 31.64%  
-- Flow 1:  
Average throughput: 60.34 Mbit/s  
95th percentile per-packet one-way delay: 66.612 ms  
Loss rate: 27.67%  
-- Flow 2:  
Average throughput: 37.52 Mbit/s  
95th percentile per-packet one-way delay: 67.451 ms  
Loss rate: 34.83%  
-- Flow 3:  
Average throughput: 33.52 Mbit/s  
95th percentile per-packet one-way delay: 66.896 ms  
Loss rate: 42.47%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 15:54:43

End at: 2018-02-16 15:55:13

Local clock offset: -0.323 ms

Remote clock offset: -6.33 ms

# Below is generated by plot.py at 2018-02-16 20:02:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 67.203 ms

Loss rate: 31.41%

-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 67.313 ms

Loss rate: 27.96%

-- Flow 2:

Average throughput: 41.43 Mbit/s

95th percentile per-packet one-way delay: 66.915 ms

Loss rate: 33.98%

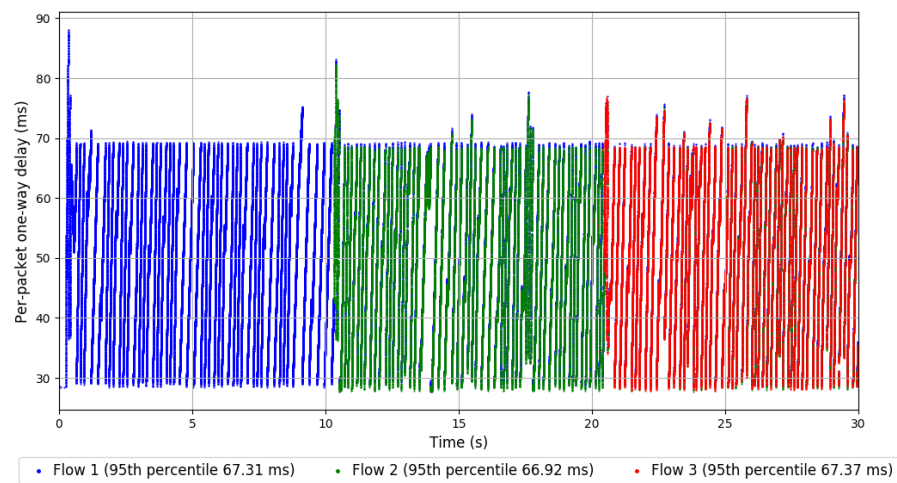
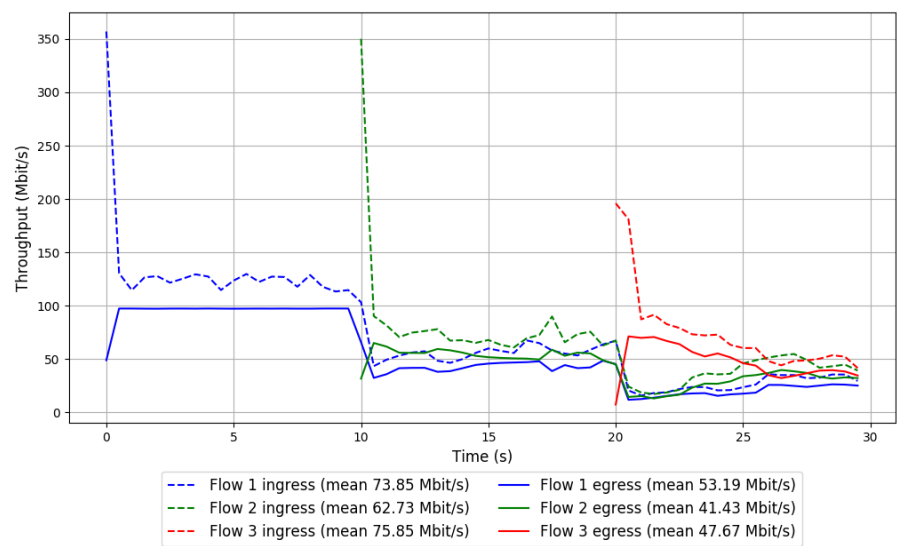
-- Flow 3:

Average throughput: 47.67 Mbit/s

95th percentile per-packet one-way delay: 67.367 ms

Loss rate: 37.29%

Run 3: Report of FillP — Data Link



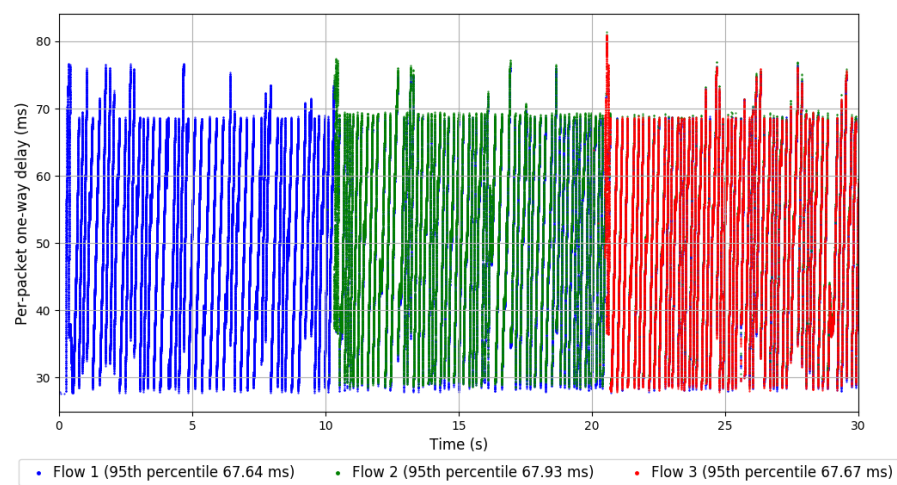
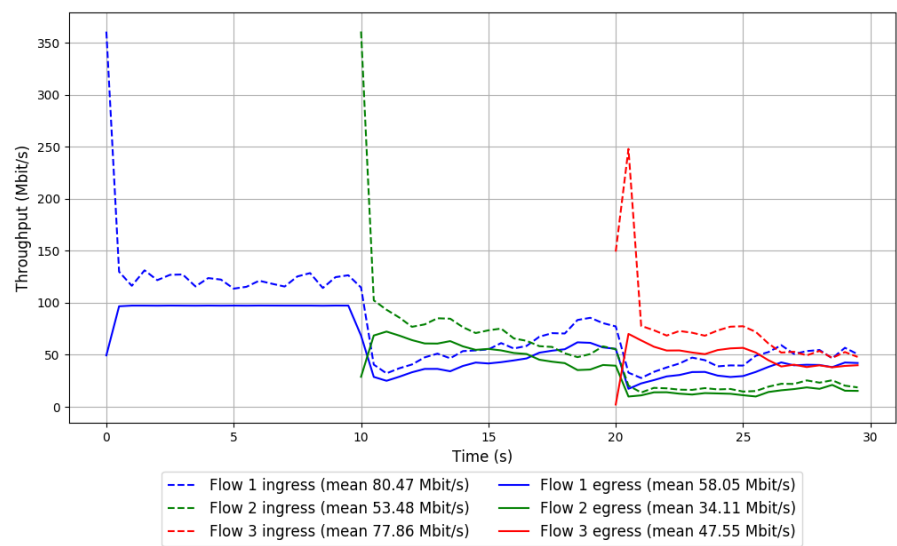
Run 4: Statistics of FillP

Start at: 2018-02-16 16:19:52  
End at: 2018-02-16 16:20:22  
Local clock offset: -0.46 ms  
Remote clock offset: -5.626 ms

# Below is generated by plot.py at 2018-02-16 20:03:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.47 Mbit/s  
95th percentile per-packet one-way delay: 67.708 ms  
Loss rate: 31.93%  
-- Flow 1:  
Average throughput: 58.05 Mbit/s  
95th percentile per-packet one-way delay: 67.637 ms  
Loss rate: 27.79%  
-- Flow 2:  
Average throughput: 34.11 Mbit/s  
95th percentile per-packet one-way delay: 67.932 ms  
Loss rate: 36.21%  
-- Flow 3:  
Average throughput: 47.55 Mbit/s  
95th percentile per-packet one-way delay: 67.665 ms  
Loss rate: 38.96%



Run 4: Report of FillP — Data Link

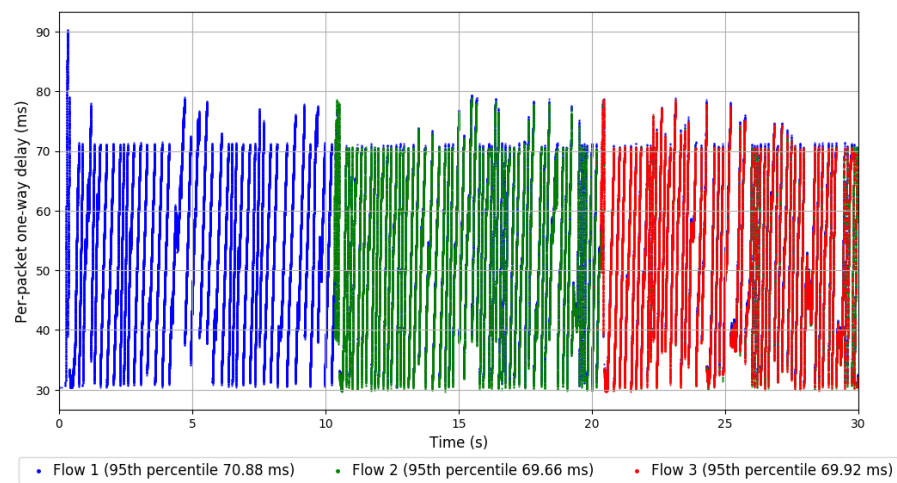
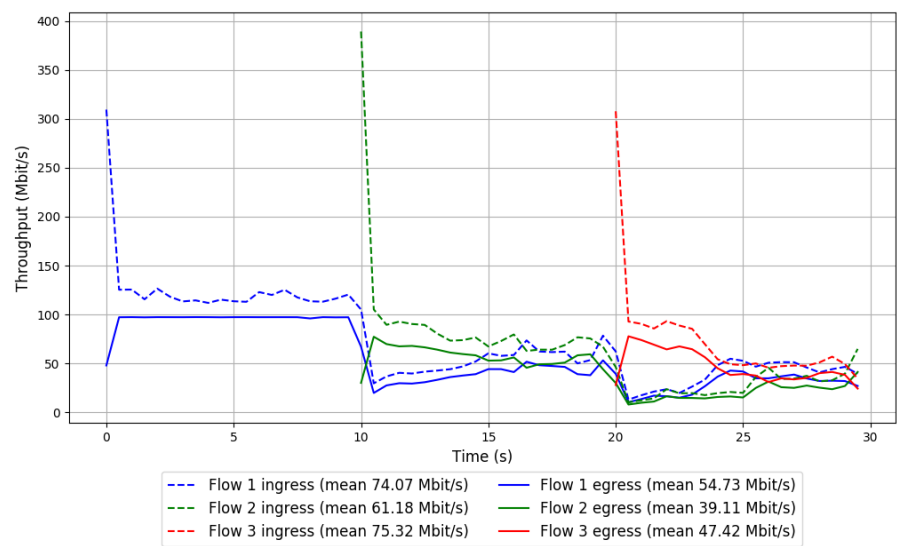


Run 5: Statistics of FillP

Start at: 2018-02-16 16:46:06  
End at: 2018-02-16 16:46:36  
Local clock offset: 0.266 ms  
Remote clock offset: -4.423 ms

# Below is generated by plot.py at 2018-02-16 20:03:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.43 Mbit/s  
95th percentile per-packet one-way delay: 70.373 ms  
Loss rate: 30.99%  
-- Flow 1:  
Average throughput: 54.73 Mbit/s  
95th percentile per-packet one-way delay: 70.879 ms  
Loss rate: 26.11%  
-- Flow 2:  
Average throughput: 39.11 Mbit/s  
95th percentile per-packet one-way delay: 69.655 ms  
Loss rate: 36.11%  
-- Flow 3:  
Average throughput: 47.42 Mbit/s  
95th percentile per-packet one-way delay: 69.925 ms  
Loss rate: 37.14%

Run 5: Report of FillP — Data Link

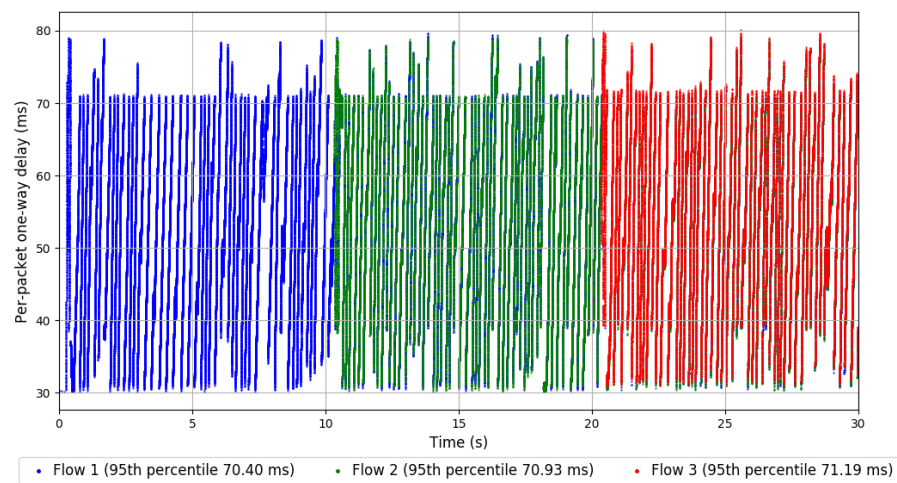
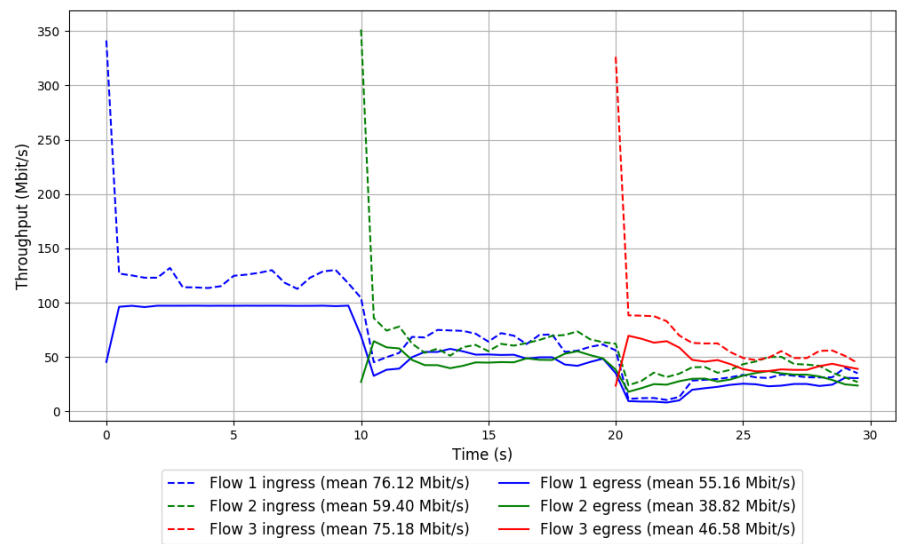


Run 6: Statistics of FillP

Start at: 2018-02-16 17:13:10  
End at: 2018-02-16 17:13:40  
Local clock offset: 0.491 ms  
Remote clock offset: -5.047 ms

# Below is generated by plot.py at 2018-02-16 20:03:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.38 Mbit/s  
95th percentile per-packet one-way delay: 70.681 ms  
Loss rate: 31.42%  
-- Flow 1:  
Average throughput: 55.16 Mbit/s  
95th percentile per-packet one-way delay: 70.402 ms  
Loss rate: 27.52%  
-- Flow 2:  
Average throughput: 38.82 Mbit/s  
95th percentile per-packet one-way delay: 70.932 ms  
Loss rate: 34.74%  
-- Flow 3:  
Average throughput: 46.58 Mbit/s  
95th percentile per-packet one-way delay: 71.191 ms  
Loss rate: 38.06%

Run 6: Report of FillP — Data Link

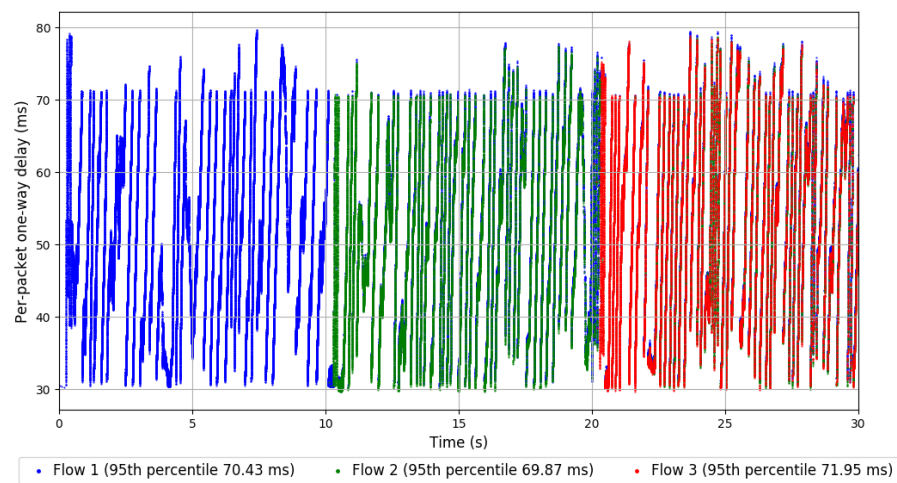
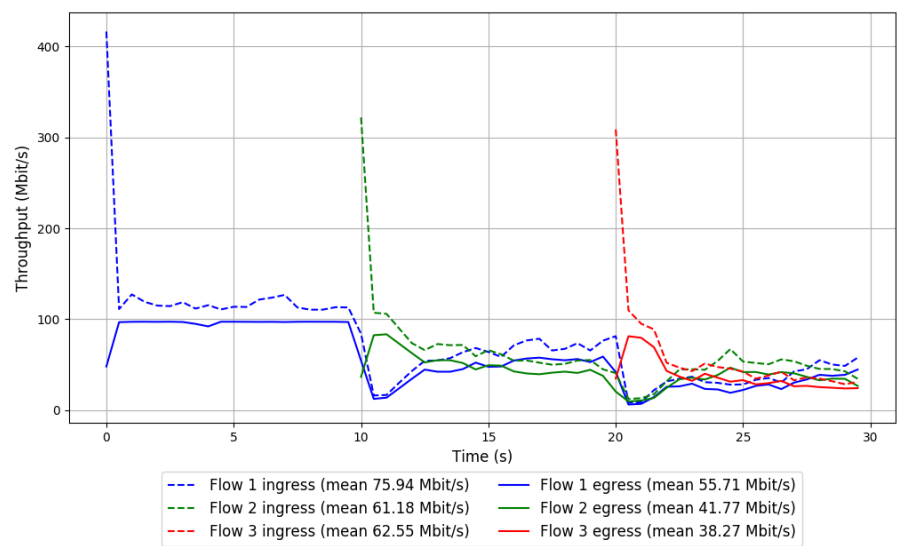


Run 7: Statistics of FillP

Start at: 2018-02-16 17:42:14  
End at: 2018-02-16 17:42:44  
Local clock offset: 0.484 ms  
Remote clock offset: -4.037 ms

# Below is generated by plot.py at 2018-02-16 20:03:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.15 Mbit/s  
95th percentile per-packet one-way delay: 70.407 ms  
Loss rate: 29.95%  
-- Flow 1:  
Average throughput: 55.71 Mbit/s  
95th percentile per-packet one-way delay: 70.434 ms  
Loss rate: 26.57%  
-- Flow 2:  
Average throughput: 41.77 Mbit/s  
95th percentile per-packet one-way delay: 69.870 ms  
Loss rate: 31.73%  
-- Flow 3:  
Average throughput: 38.27 Mbit/s  
95th percentile per-packet one-way delay: 71.949 ms  
Loss rate: 38.82%

Run 7: Report of FillP — Data Link



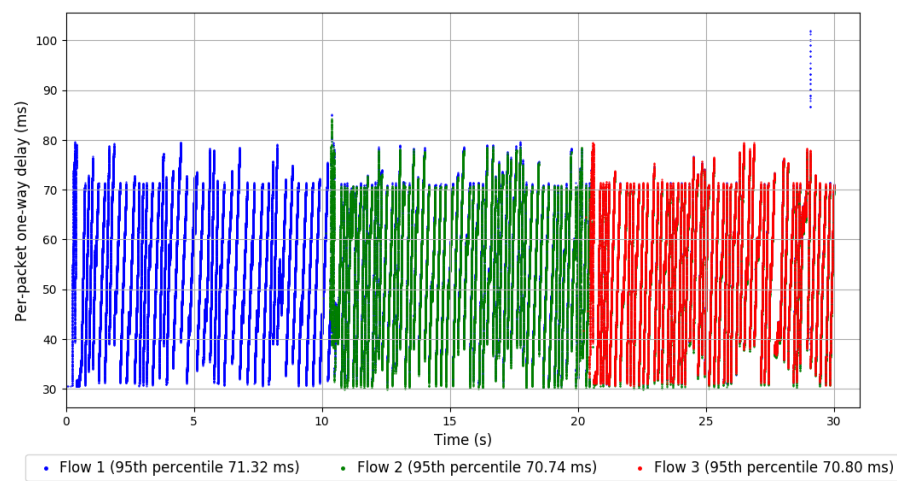
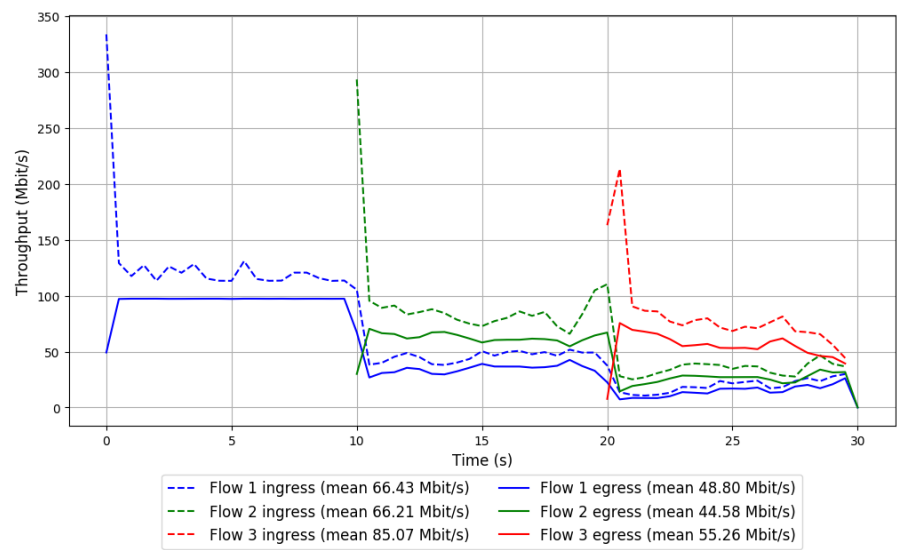
Run 8: Statistics of FillP

Start at: 2018-02-16 18:09:02  
End at: 2018-02-16 18:09:32  
Local clock offset: 0.323 ms  
Remote clock offset: -2.438 ms

# Below is generated by plot.py at 2018-02-16 20:03:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.52 Mbit/s  
95th percentile per-packet one-way delay: 71.070 ms  
Loss rate: 30.36%  
-- Flow 1:  
Average throughput: 48.80 Mbit/s  
95th percentile per-packet one-way delay: 71.318 ms  
Loss rate: 26.47%  
-- Flow 2:  
Average throughput: 44.58 Mbit/s  
95th percentile per-packet one-way delay: 70.742 ms  
Loss rate: 32.64%  
-- Flow 3:  
Average throughput: 55.26 Mbit/s  
95th percentile per-packet one-way delay: 70.800 ms  
Loss rate: 35.94%



Run 8: Report of FillP — Data Link

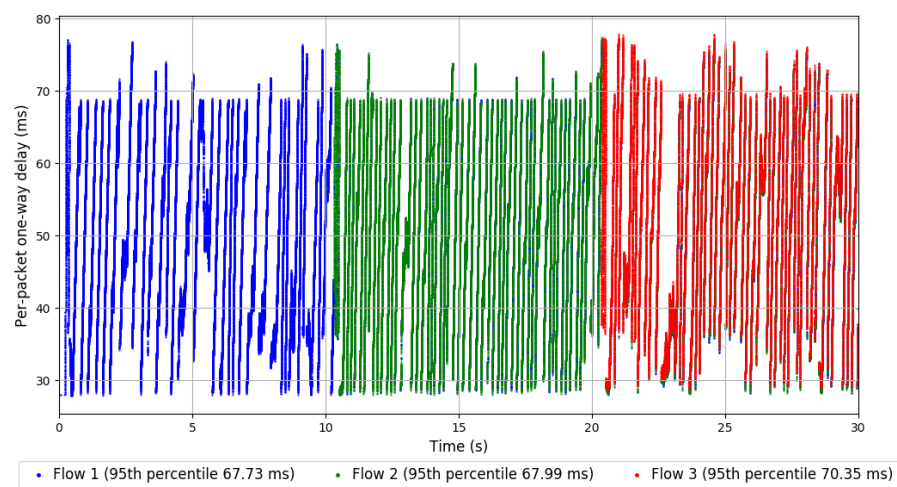
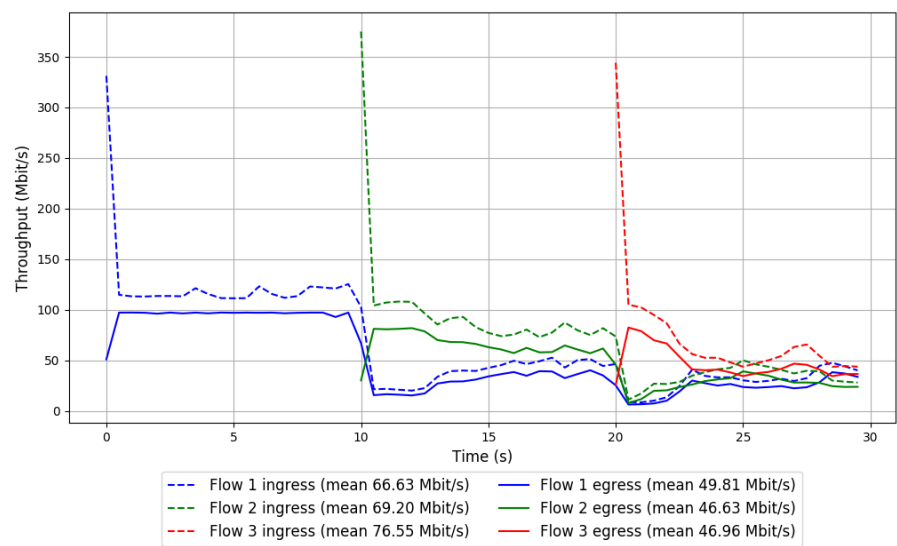


Run 9: Statistics of FillP

Start at: 2018-02-16 18:34:56  
End at: 2018-02-16 18:35:26  
Local clock offset: -0.107 ms  
Remote clock offset: -3.848 ms

# Below is generated by plot.py at 2018-02-16 20:04:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.33 Mbit/s  
95th percentile per-packet one-way delay: 68.206 ms  
Loss rate: 30.20%  
-- Flow 1:  
Average throughput: 49.81 Mbit/s  
95th percentile per-packet one-way delay: 67.730 ms  
Loss rate: 25.22%  
-- Flow 2:  
Average throughput: 46.63 Mbit/s  
95th percentile per-packet one-way delay: 67.994 ms  
Loss rate: 32.68%  
-- Flow 3:  
Average throughput: 46.96 Mbit/s  
95th percentile per-packet one-way delay: 70.353 ms  
Loss rate: 38.77%

Run 9: Report of FillP — Data Link

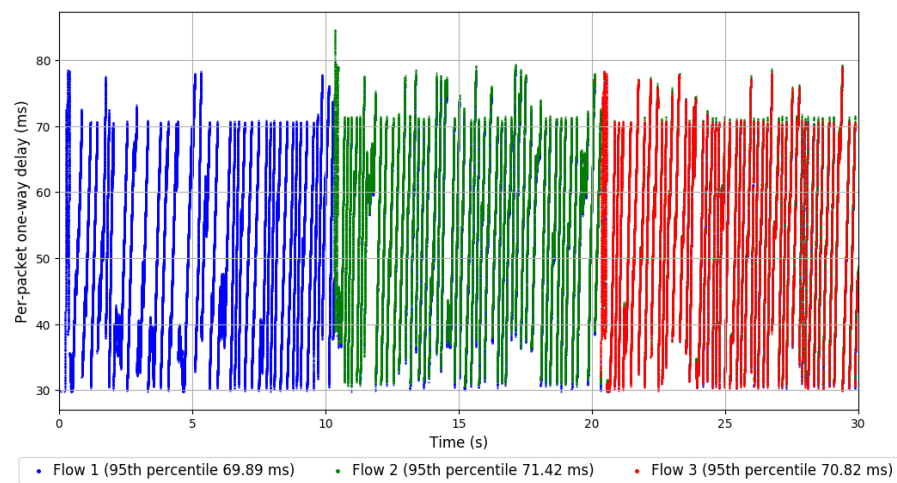
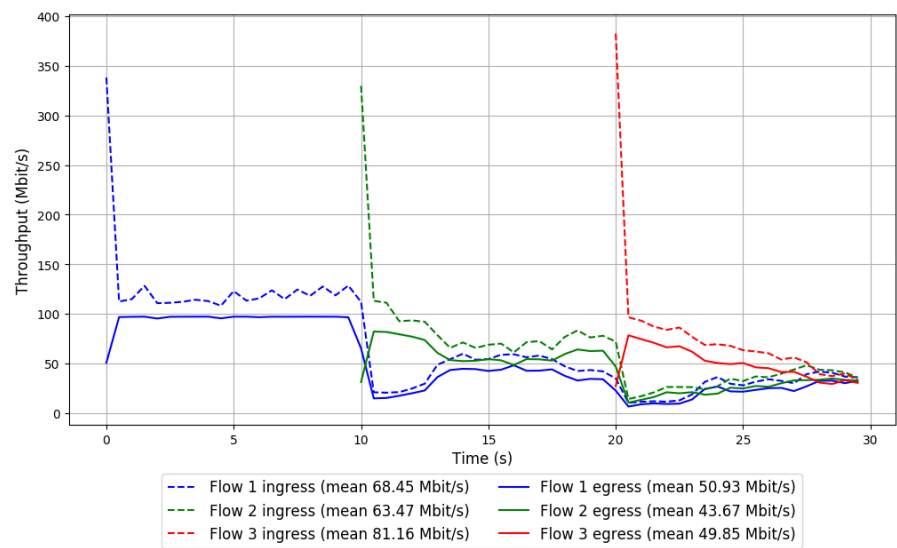


Run 10: Statistics of FillP

Start at: 2018-02-16 19:00:07  
End at: 2018-02-16 19:00:37  
Local clock offset: 0.405 ms  
Remote clock offset: -6.194 ms

# Below is generated by plot.py at 2018-02-16 20:04:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.41 Mbit/s  
95th percentile per-packet one-way delay: 70.536 ms  
Loss rate: 29.89%  
-- Flow 1:  
Average throughput: 50.93 Mbit/s  
95th percentile per-packet one-way delay: 69.887 ms  
Loss rate: 25.55%  
-- Flow 2:  
Average throughput: 43.67 Mbit/s  
95th percentile per-packet one-way delay: 71.415 ms  
Loss rate: 31.27%  
-- Flow 3:  
Average throughput: 49.85 Mbit/s  
95th percentile per-packet one-way delay: 70.823 ms  
Loss rate: 38.75%

Run 10: Report of FillP — Data Link

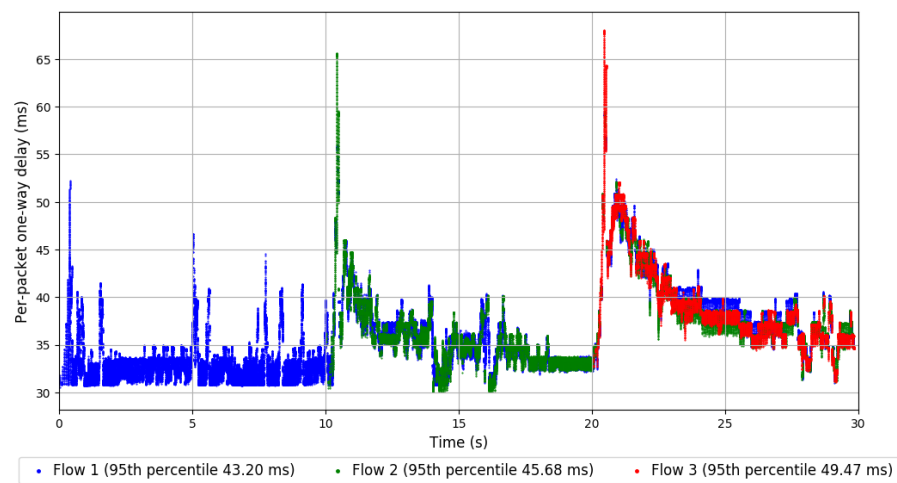
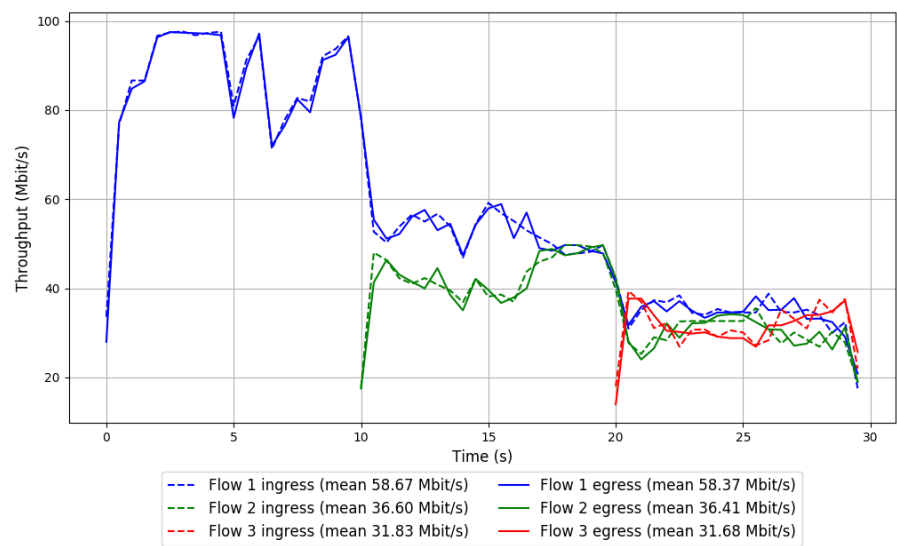


Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 15:10:29  
End at: 2018-02-16 15:10:59  
Local clock offset: 0.338 ms  
Remote clock offset: -4.599 ms

# Below is generated by plot.py at 2018-02-16 20:04:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.85 Mbit/s  
95th percentile per-packet one-way delay: 44.771 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 58.37 Mbit/s  
95th percentile per-packet one-way delay: 43.202 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 36.41 Mbit/s  
95th percentile per-packet one-way delay: 45.681 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 31.68 Mbit/s  
95th percentile per-packet one-way delay: 49.471 ms  
Loss rate: 0.46%

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



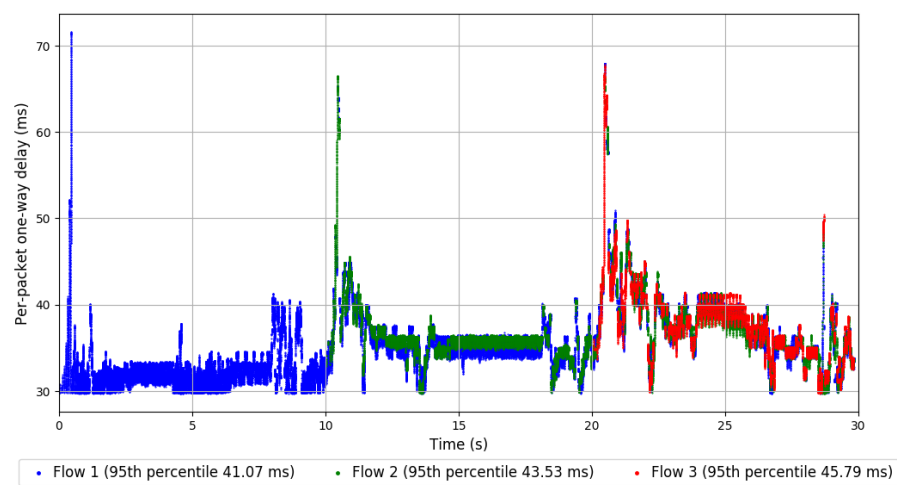
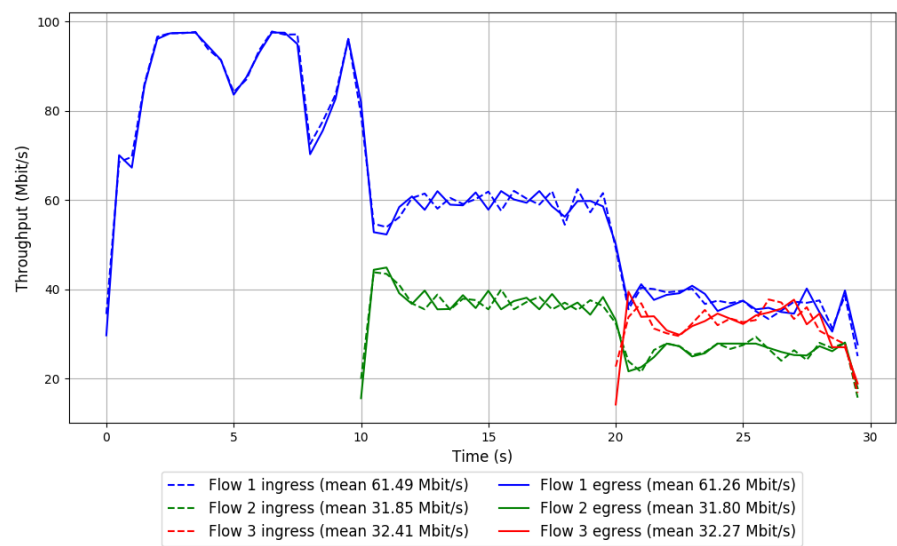
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 15:36:38  
End at: 2018-02-16 15:37:08  
Local clock offset: -0.067 ms  
Remote clock offset: -5.505 ms

# Below is generated by plot.py at 2018-02-16 20:04:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.92 Mbit/s  
95th percentile per-packet one-way delay: 42.344 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 61.26 Mbit/s  
95th percentile per-packet one-way delay: 41.066 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 31.80 Mbit/s  
95th percentile per-packet one-way delay: 43.529 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 32.27 Mbit/s  
95th percentile per-packet one-way delay: 45.786 ms  
Loss rate: 0.44%



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

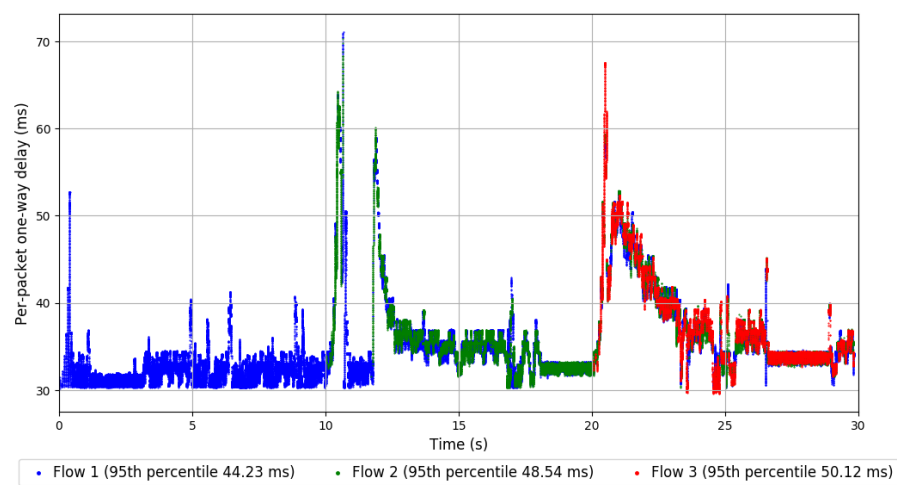
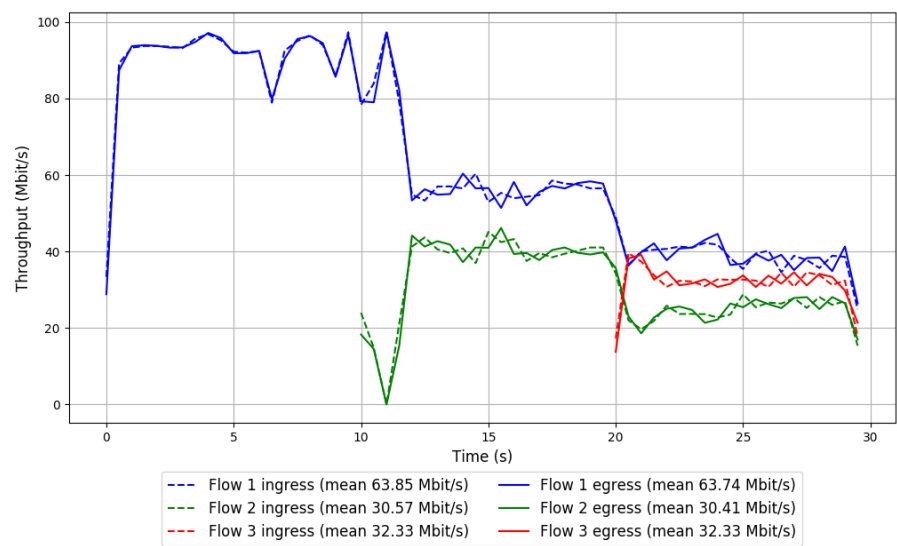


Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 16:01:43  
End at: 2018-02-16 16:02:13  
Local clock offset: -0.302 ms  
Remote clock offset: -3.874 ms

# Below is generated by plot.py at 2018-02-16 20:04:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.48 Mbit/s  
95th percentile per-packet one-way delay: 46.676 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 63.74 Mbit/s  
95th percentile per-packet one-way delay: 44.229 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 30.41 Mbit/s  
95th percentile per-packet one-way delay: 48.541 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 32.33 Mbit/s  
95th percentile per-packet one-way delay: 50.118 ms  
Loss rate: 0.00%

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

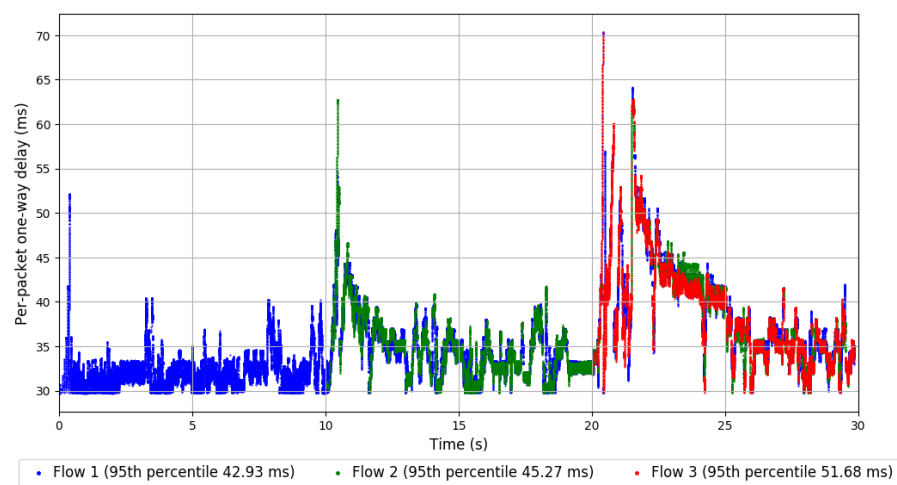
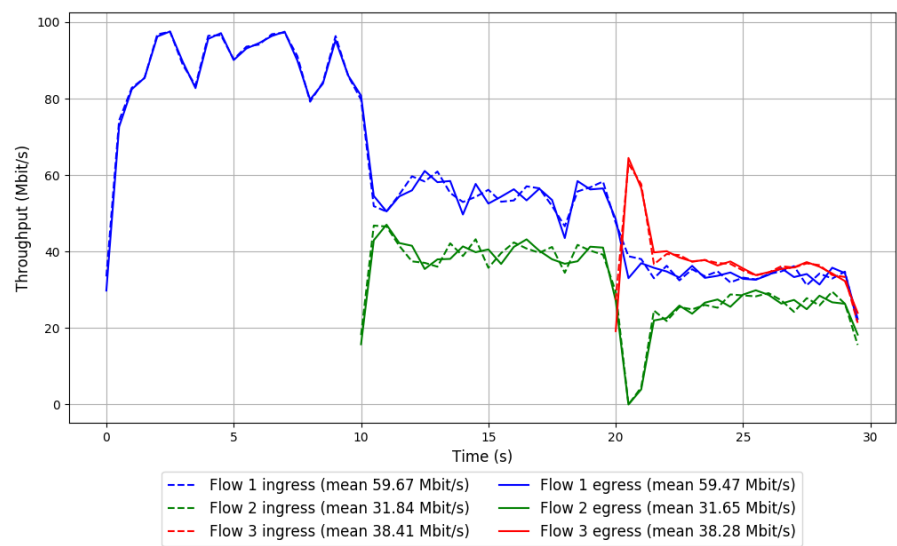


Run 4: Statistics of Indigo-1-32

Start at: 2018-02-16 16:27:51  
End at: 2018-02-16 16:28:21  
Local clock offset: -0.48 ms  
Remote clock offset: -3.973 ms

# Below is generated by plot.py at 2018-02-16 20:05:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.97 Mbit/s  
95th percentile per-packet one-way delay: 45.298 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 59.47 Mbit/s  
95th percentile per-packet one-way delay: 42.931 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 31.65 Mbit/s  
95th percentile per-packet one-way delay: 45.271 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 38.28 Mbit/s  
95th percentile per-packet one-way delay: 51.683 ms  
Loss rate: 0.33%

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

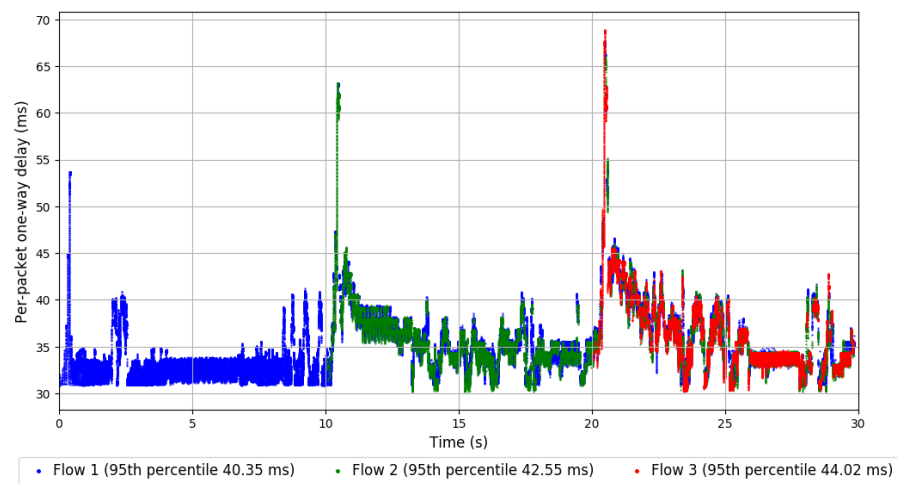
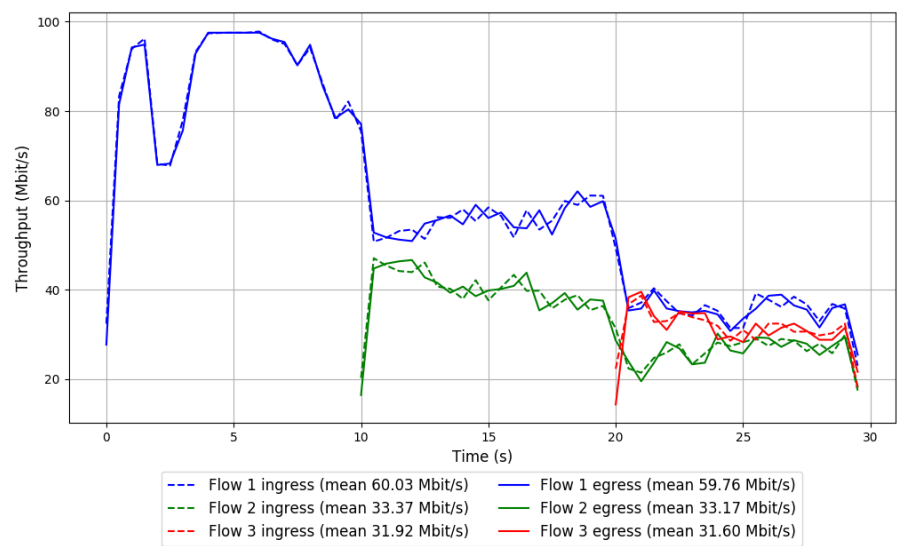


Run 5: Statistics of Indigo-1-32

Start at: 2018-02-16 16:53:34  
End at: 2018-02-16 16:54:04  
Local clock offset: 0.334 ms  
Remote clock offset: -4.144 ms

# Below is generated by plot.py at 2018-02-16 20:05:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.11 Mbit/s  
95th percentile per-packet one-way delay: 41.599 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 59.76 Mbit/s  
95th percentile per-packet one-way delay: 40.352 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 33.17 Mbit/s  
95th percentile per-packet one-way delay: 42.554 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 31.60 Mbit/s  
95th percentile per-packet one-way delay: 44.023 ms  
Loss rate: 0.99%

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



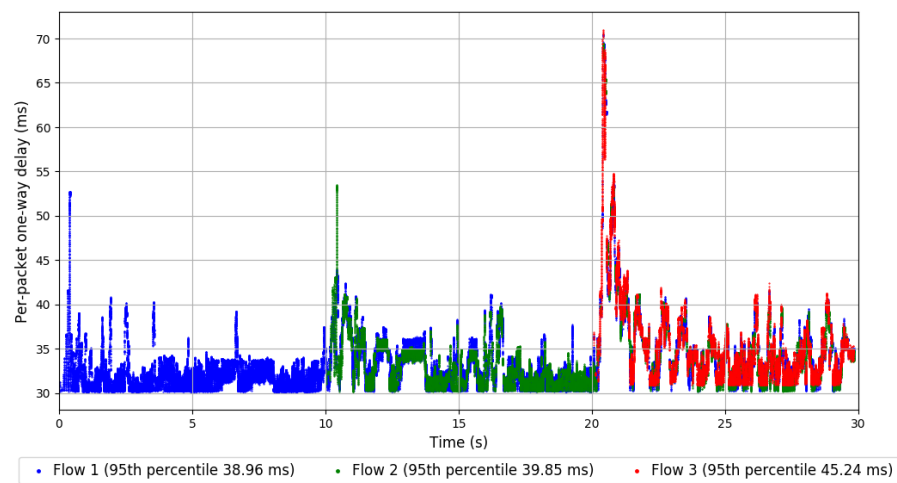
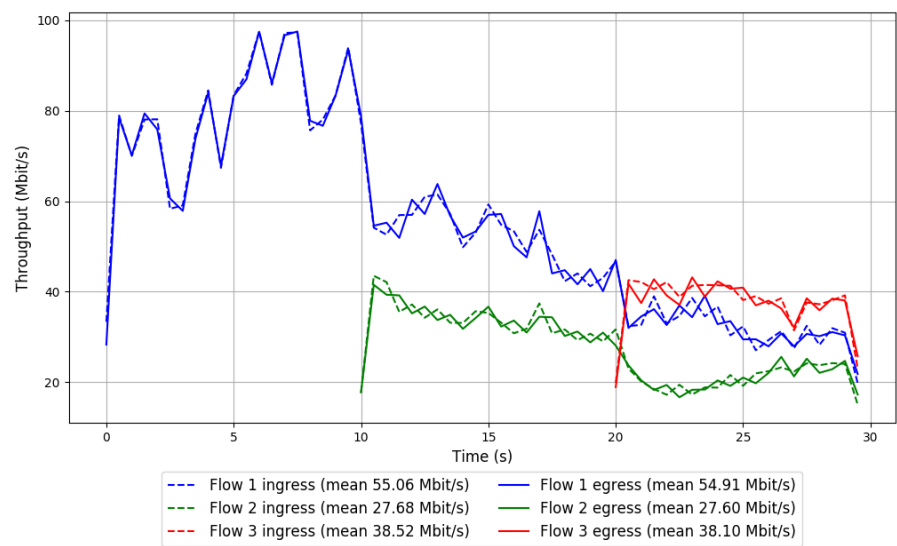
Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 17:21:56  
End at: 2018-02-16 17:22:26  
Local clock offset: 0.51 ms  
Remote clock offset: -5.602 ms

# Below is generated by plot.py at 2018-02-16 20:05:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.72 Mbit/s  
95th percentile per-packet one-way delay: 39.753 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 54.91 Mbit/s  
95th percentile per-packet one-way delay: 38.959 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 27.60 Mbit/s  
95th percentile per-packet one-way delay: 39.855 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 38.10 Mbit/s  
95th percentile per-packet one-way delay: 45.243 ms  
Loss rate: 1.08%



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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-16 17:50:21

End at: 2018-02-16 17:50:51

Local clock offset: 0.472 ms

Remote clock offset: -3.63 ms

# Below is generated by plot.py at 2018-02-16 20:05:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 42.224 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 40.439 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 30.41 Mbit/s

95th percentile per-packet one-way delay: 43.403 ms

Loss rate: 1.38%

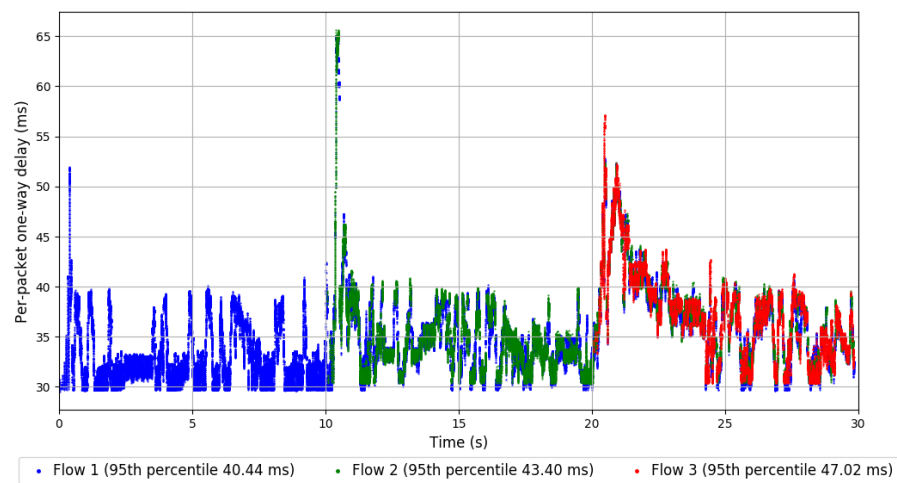
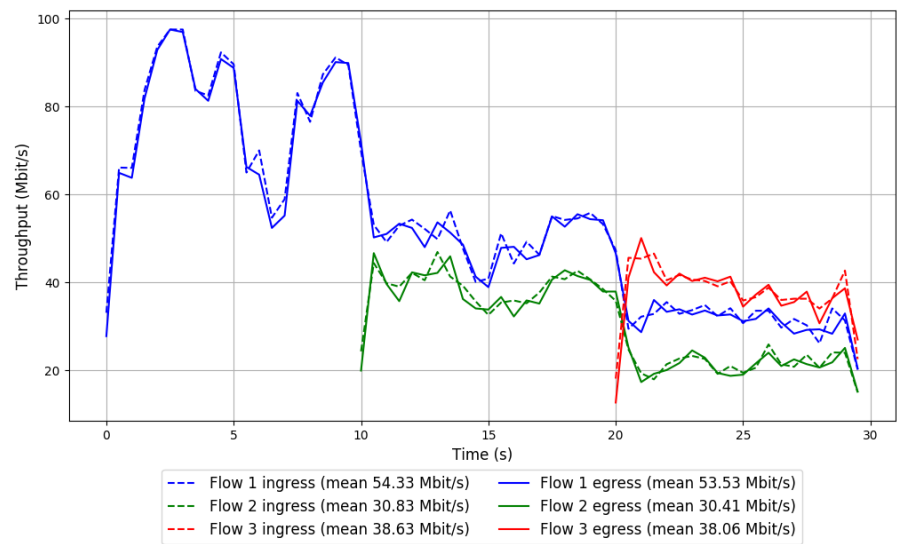
-- Flow 3:

Average throughput: 38.06 Mbit/s

95th percentile per-packet one-way delay: 47.024 ms

Loss rate: 1.49%

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

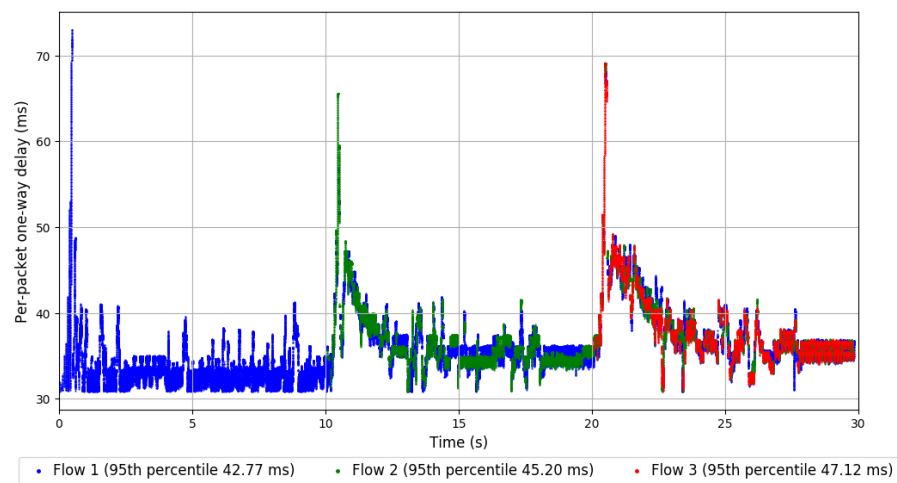
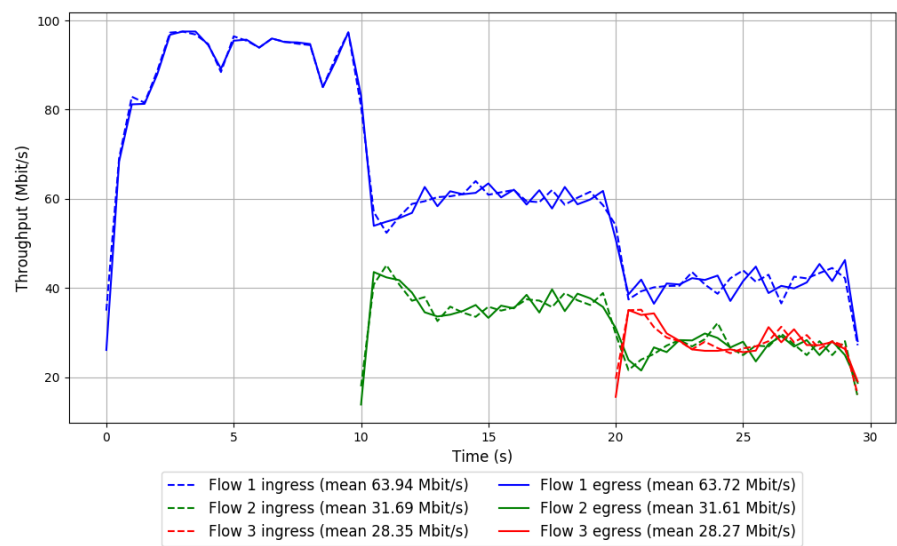


Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 18:16:58  
End at: 2018-02-16 18:17:28  
Local clock offset: 0.312 ms  
Remote clock offset: -1.497 ms

# Below is generated by plot.py at 2018-02-16 20:05:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.90 Mbit/s  
95th percentile per-packet one-way delay: 44.509 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 63.72 Mbit/s  
95th percentile per-packet one-way delay: 42.775 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 31.61 Mbit/s  
95th percentile per-packet one-way delay: 45.198 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 28.27 Mbit/s  
95th percentile per-packet one-way delay: 47.116 ms  
Loss rate: 0.28%

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

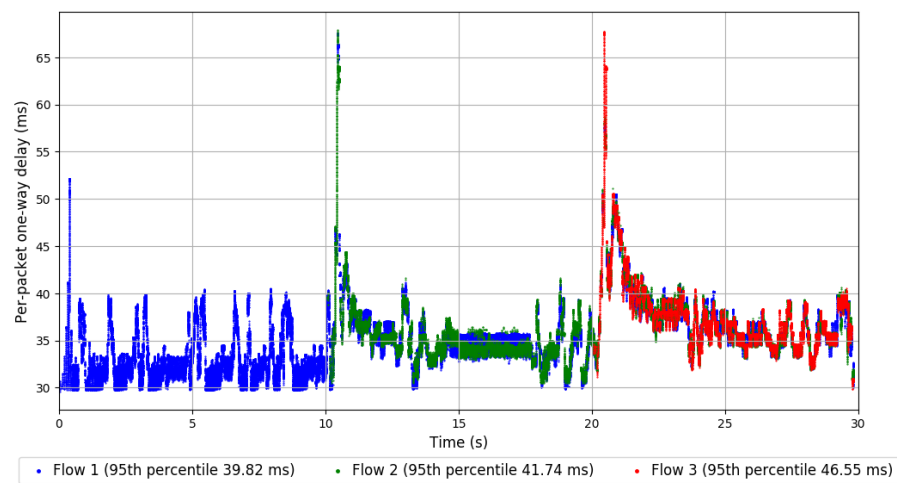
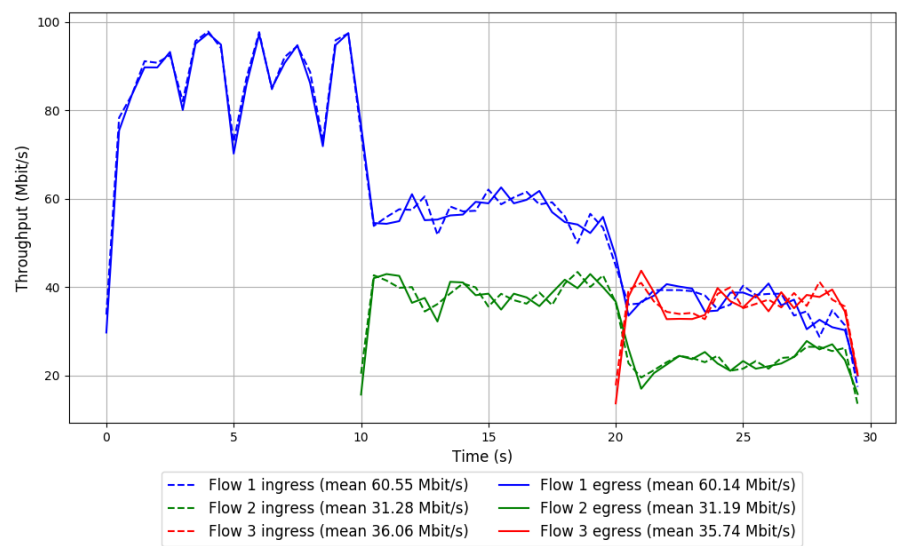


Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 18:42:19  
End at: 2018-02-16 18:42:49  
Local clock offset: -0.072 ms  
Remote clock offset: -3.865 ms

# Below is generated by plot.py at 2018-02-16 20:05:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.49 Mbit/s  
95th percentile per-packet one-way delay: 41.398 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 60.14 Mbit/s  
95th percentile per-packet one-way delay: 39.821 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 31.19 Mbit/s  
95th percentile per-packet one-way delay: 41.744 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 35.74 Mbit/s  
95th percentile per-packet one-way delay: 46.545 ms  
Loss rate: 0.91%

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



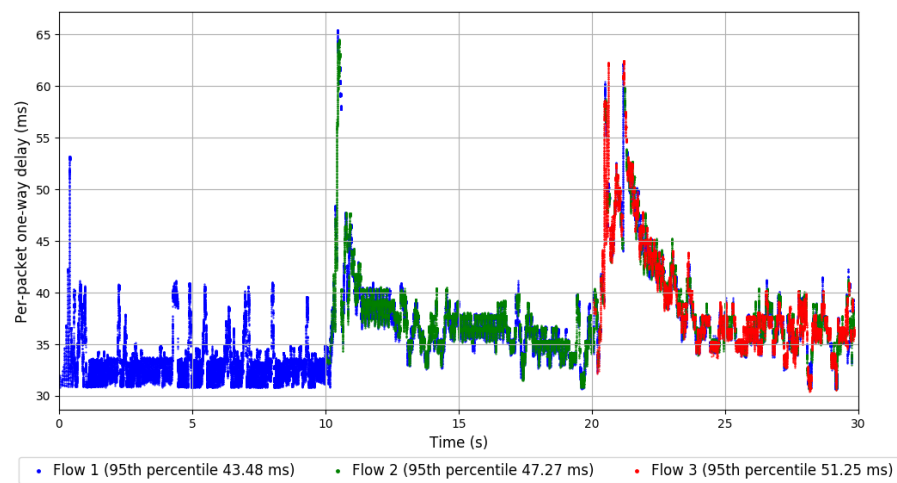
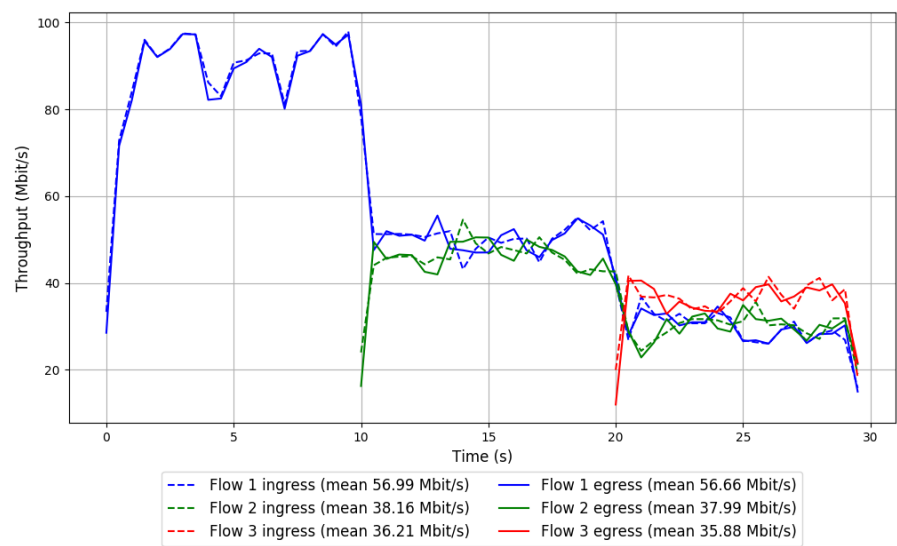
Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 19:07:17  
End at: 2018-02-16 19:07:47  
Local clock offset: 0.561 ms  
Remote clock offset: -6.538 ms

# Below is generated by plot.py at 2018-02-16 20:06:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.55 Mbit/s  
95th percentile per-packet one-way delay: 46.298 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 56.66 Mbit/s  
95th percentile per-packet one-way delay: 43.480 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 37.99 Mbit/s  
95th percentile per-packet one-way delay: 47.272 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 35.88 Mbit/s  
95th percentile per-packet one-way delay: 51.251 ms  
Loss rate: 0.91%



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

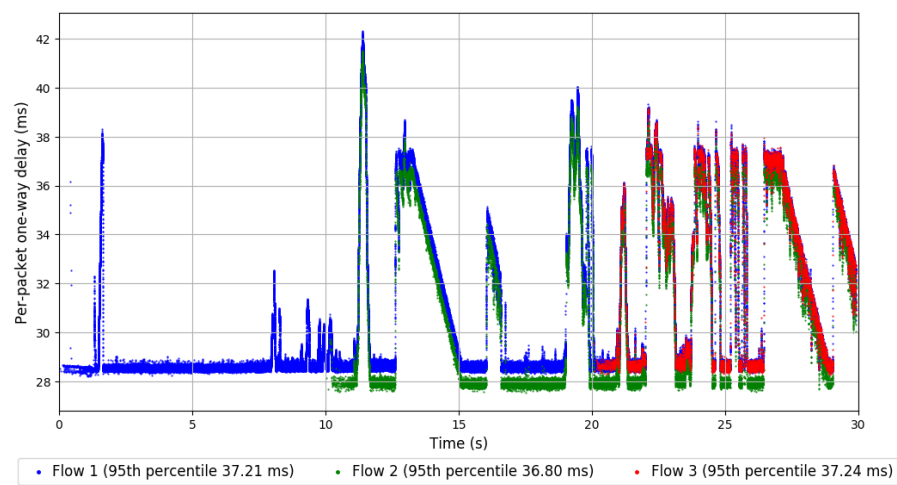
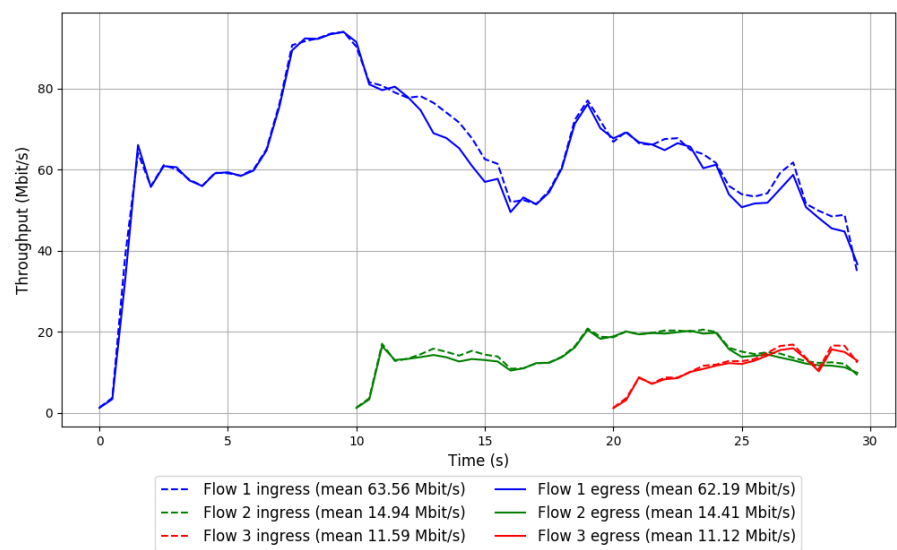


Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 14:51:18  
End at: 2018-02-16 14:51:48  
Local clock offset: 0.283 ms  
Remote clock offset: -6.446 ms

# Below is generated by plot.py at 2018-02-16 20:06:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.43 Mbit/s  
95th percentile per-packet one-way delay: 37.202 ms  
Loss rate: 2.42%  
-- Flow 1:  
Average throughput: 62.19 Mbit/s  
95th percentile per-packet one-way delay: 37.212 ms  
Loss rate: 2.15%  
-- Flow 2:  
Average throughput: 14.41 Mbit/s  
95th percentile per-packet one-way delay: 36.799 ms  
Loss rate: 3.52%  
-- Flow 3:  
Average throughput: 11.12 Mbit/s  
95th percentile per-packet one-way delay: 37.239 ms  
Loss rate: 4.05%

Run 1: Report of Vivace-latency — Data Link

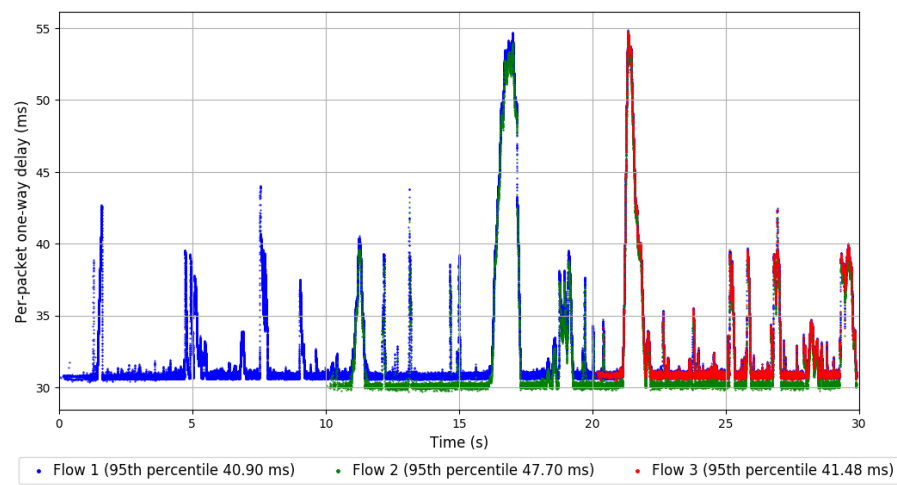
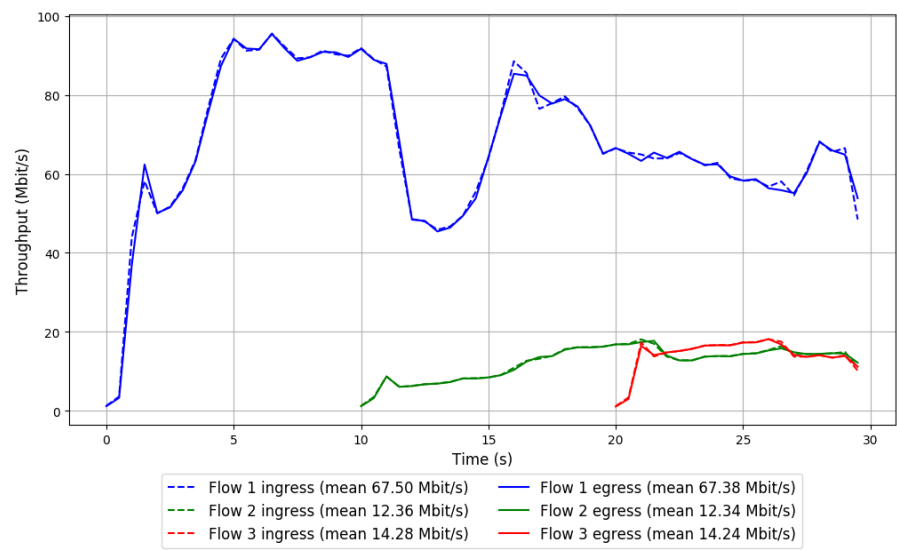


Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 15:17:53  
End at: 2018-02-16 15:18:23  
Local clock offset: 0.225 ms  
Remote clock offset: -5.284 ms

# Below is generated by plot.py at 2018-02-16 20:06:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.28 Mbit/s  
95th percentile per-packet one-way delay: 41.765 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 67.38 Mbit/s  
95th percentile per-packet one-way delay: 40.898 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 12.34 Mbit/s  
95th percentile per-packet one-way delay: 47.700 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 14.24 Mbit/s  
95th percentile per-packet one-way delay: 41.485 ms  
Loss rate: 0.26%

Run 2: Report of Vivace-latency — Data Link

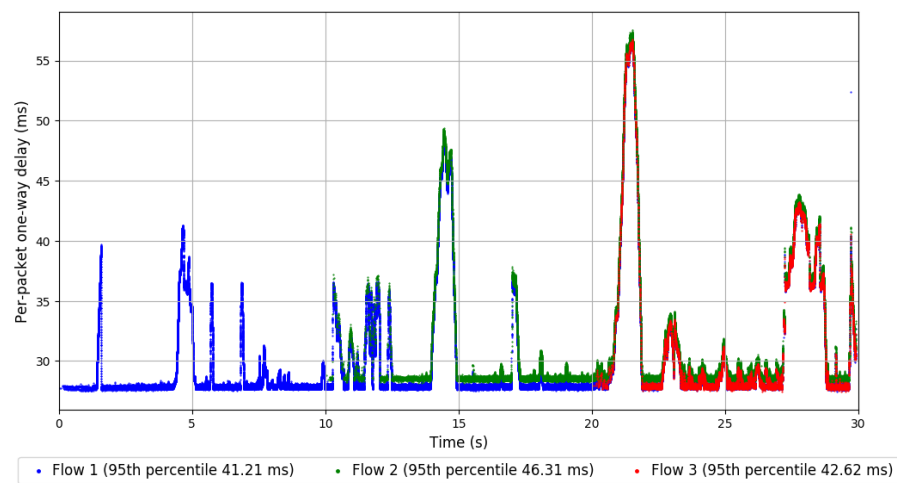
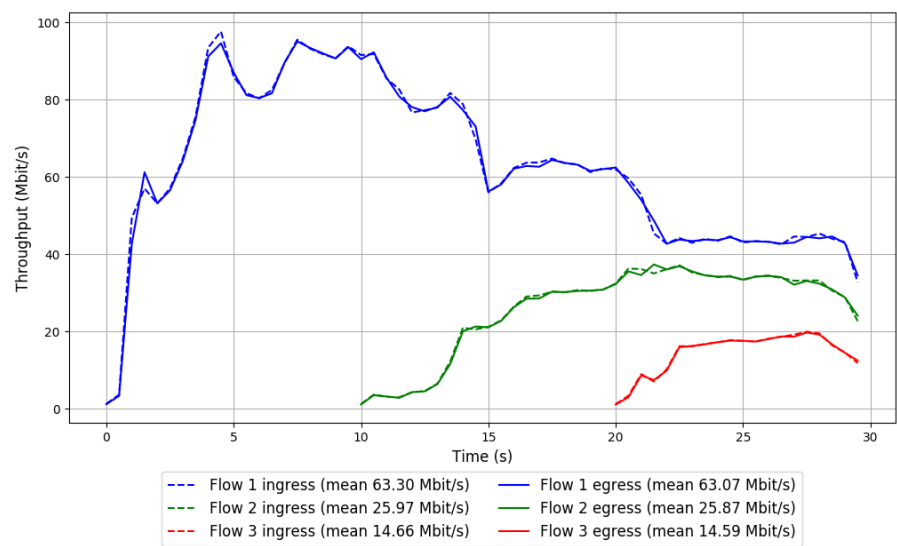


Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 15:43:53  
End at: 2018-02-16 15:44:23  
Local clock offset: -0.244 ms  
Remote clock offset: -7.365 ms

# Below is generated by plot.py at 2018-02-16 20:06:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.08 Mbit/s  
95th percentile per-packet one-way delay: 42.625 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 63.07 Mbit/s  
95th percentile per-packet one-way delay: 41.206 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 25.87 Mbit/s  
95th percentile per-packet one-way delay: 46.310 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 14.59 Mbit/s  
95th percentile per-packet one-way delay: 42.625 ms  
Loss rate: 0.43%

Run 3: Report of Vivace-latency — Data Link



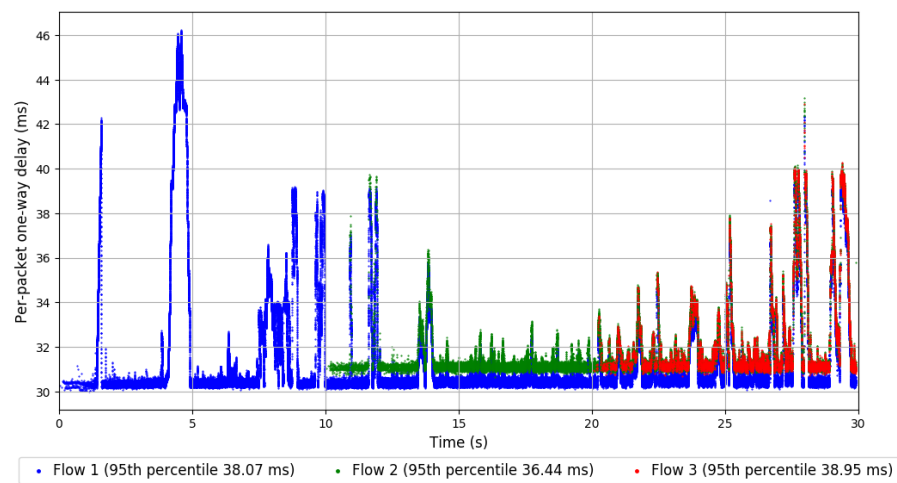
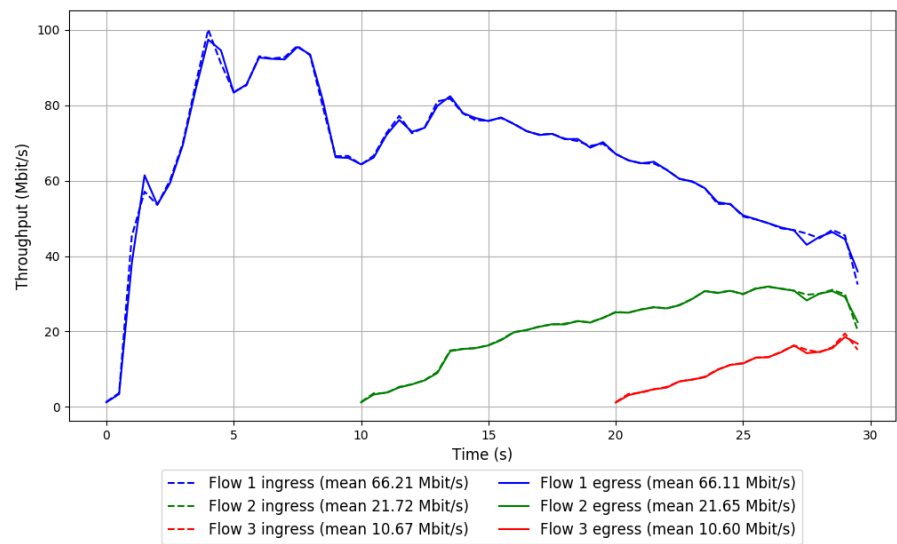
Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 16:08:48  
End at: 2018-02-16 16:09:18  
Local clock offset: -0.458 ms  
Remote clock offset: -3.216 ms

# Below is generated by plot.py at 2018-02-16 20:06:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.99 Mbit/s  
95th percentile per-packet one-way delay: 37.761 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 66.11 Mbit/s  
95th percentile per-packet one-way delay: 38.066 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 21.65 Mbit/s  
95th percentile per-packet one-way delay: 36.440 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 10.60 Mbit/s  
95th percentile per-packet one-way delay: 38.955 ms  
Loss rate: 0.63%



Run 4: Report of Vivace-latency — Data Link

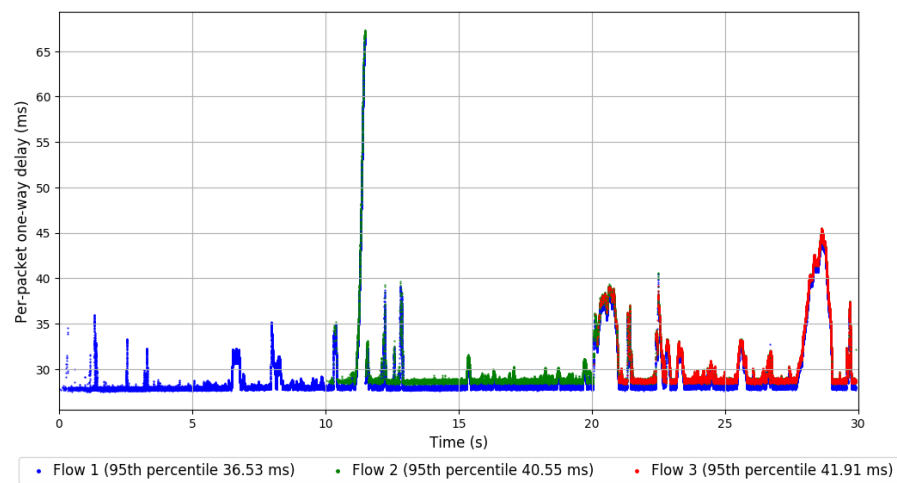
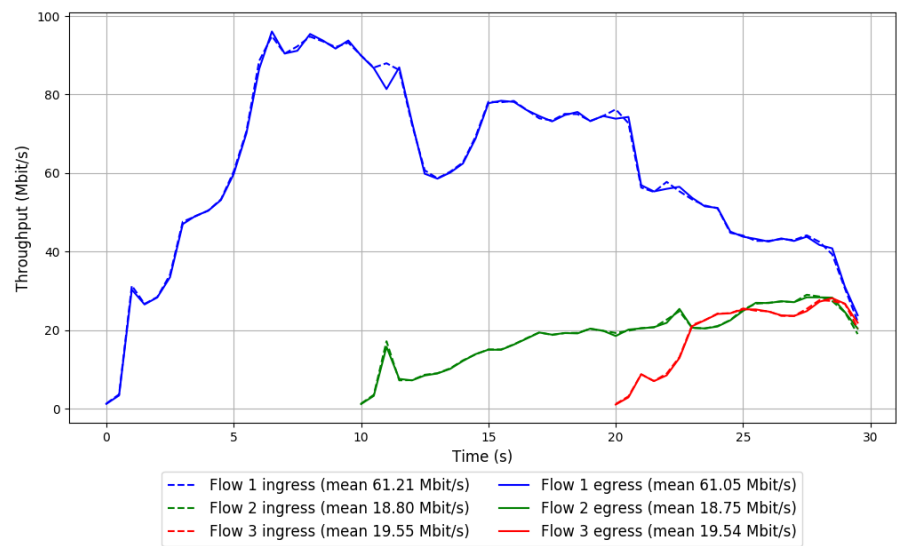


Run 5: Statistics of Vivace-latency

Start at: 2018-02-16 16:35:04  
End at: 2018-02-16 16:35:34  
Local clock offset: -0.345 ms  
Remote clock offset: -6.268 ms

# Below is generated by plot.py at 2018-02-16 20:07:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.94 Mbit/s  
95th percentile per-packet one-way delay: 37.581 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 61.05 Mbit/s  
95th percentile per-packet one-way delay: 36.532 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 18.75 Mbit/s  
95th percentile per-packet one-way delay: 40.548 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 19.54 Mbit/s  
95th percentile per-packet one-way delay: 41.912 ms  
Loss rate: 0.07%

Run 5: Report of Vivace-latency — Data Link

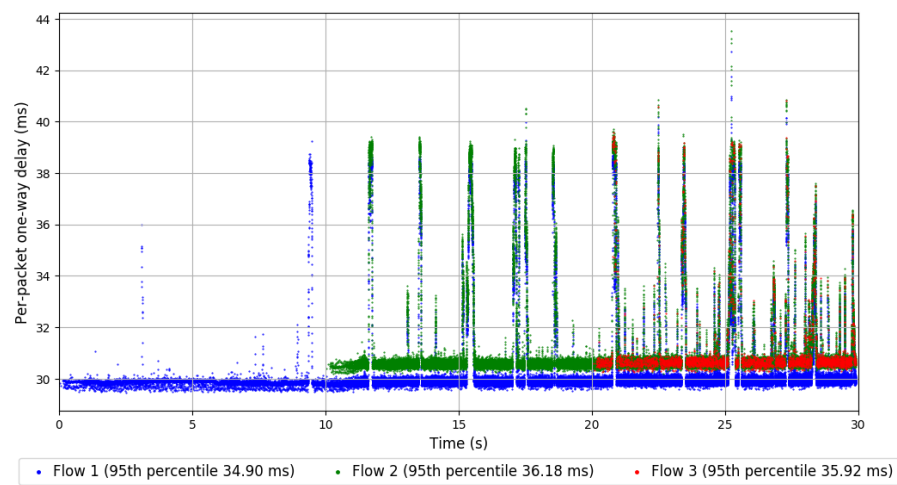
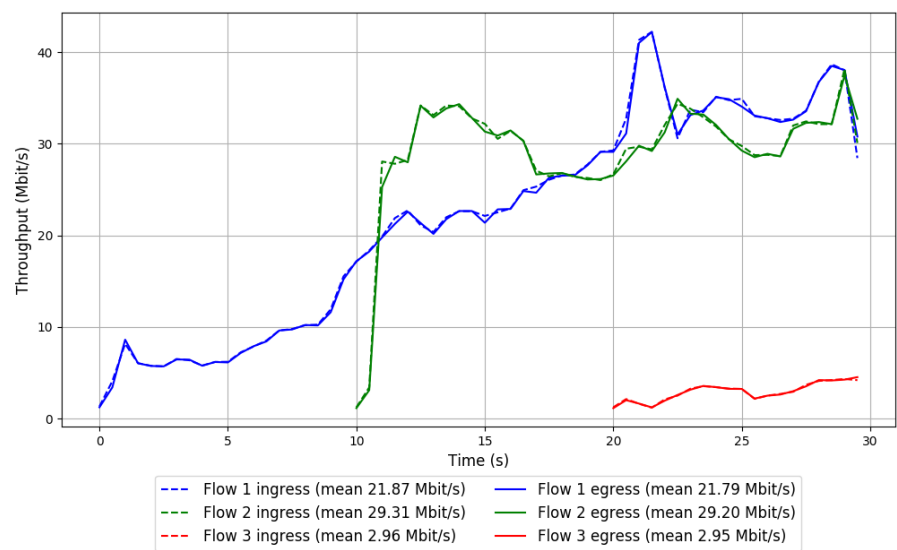


Run 6: Statistics of Vivace-latency

Start at: 2018-02-16 17:00:56  
End at: 2018-02-16 17:01:26  
Local clock offset: 0.479 ms  
Remote clock offset: -4.804 ms

# Below is generated by plot.py at 2018-02-16 20:07:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.18 Mbit/s  
95th percentile per-packet one-way delay: 35.553 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 21.79 Mbit/s  
95th percentile per-packet one-way delay: 34.904 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 29.20 Mbit/s  
95th percentile per-packet one-way delay: 36.177 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 2.95 Mbit/s  
95th percentile per-packet one-way delay: 35.923 ms  
Loss rate: 0.33%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-16 17:30:04

End at: 2018-02-16 17:30:34

Local clock offset: 0.512 ms

Remote clock offset: -5.18 ms

# Below is generated by plot.py at 2018-02-16 20:07:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 36.461 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 21.24 Mbit/s

95th percentile per-packet one-way delay: 36.177 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 18.32 Mbit/s

95th percentile per-packet one-way delay: 37.052 ms

Loss rate: 0.56%

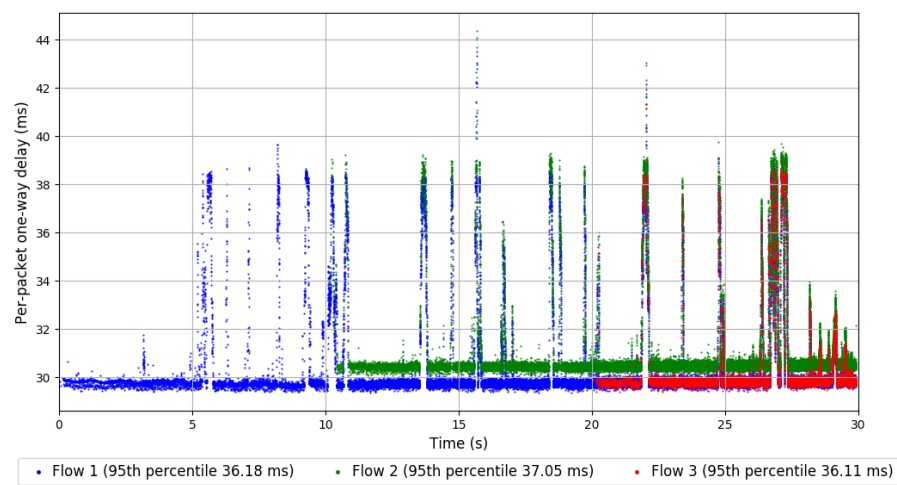
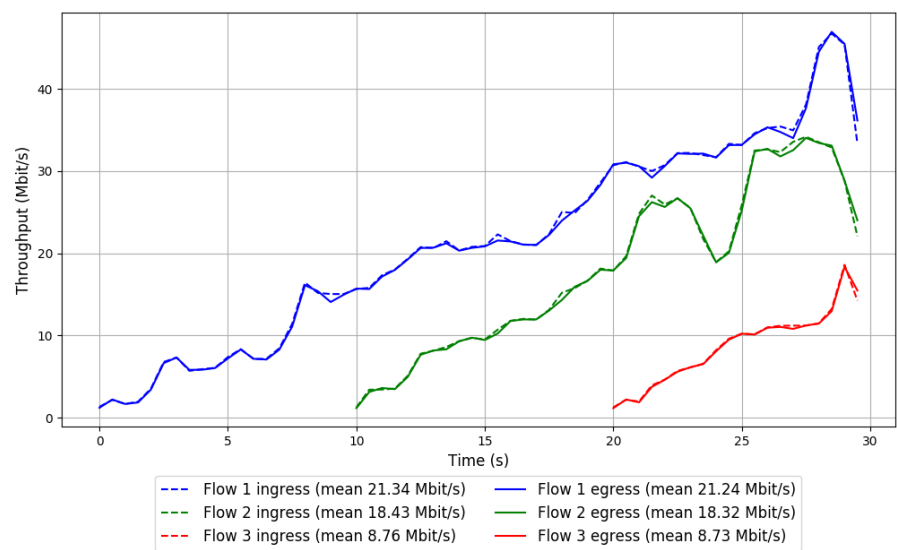
-- Flow 3:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 36.110 ms

Loss rate: 0.38%

Run 7: Report of Vivace-latency — Data Link



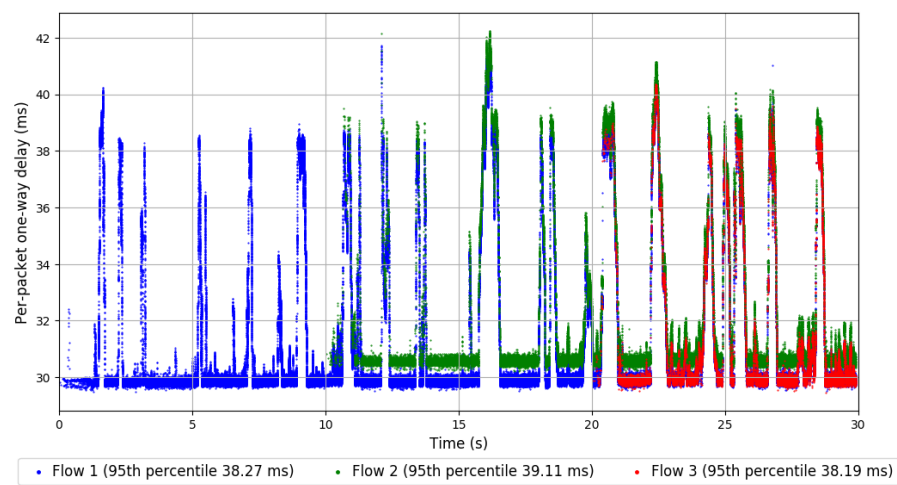
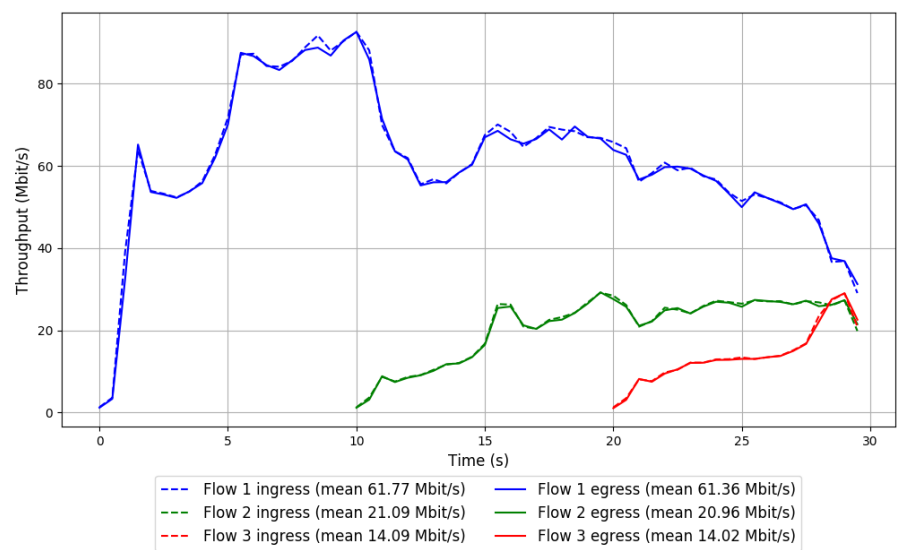
Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 17:57:36  
End at: 2018-02-16 17:58:06  
Local clock offset: 0.409 ms  
Remote clock offset: -3.189 ms

# Below is generated by plot.py at 2018-02-16 20:07:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.92 Mbit/s  
95th percentile per-packet one-way delay: 38.390 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 61.36 Mbit/s  
95th percentile per-packet one-way delay: 38.274 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 20.96 Mbit/s  
95th percentile per-packet one-way delay: 39.111 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 14.02 Mbit/s  
95th percentile per-packet one-way delay: 38.189 ms  
Loss rate: 0.50%



Run 8: Report of Vivace-latency — Data Link

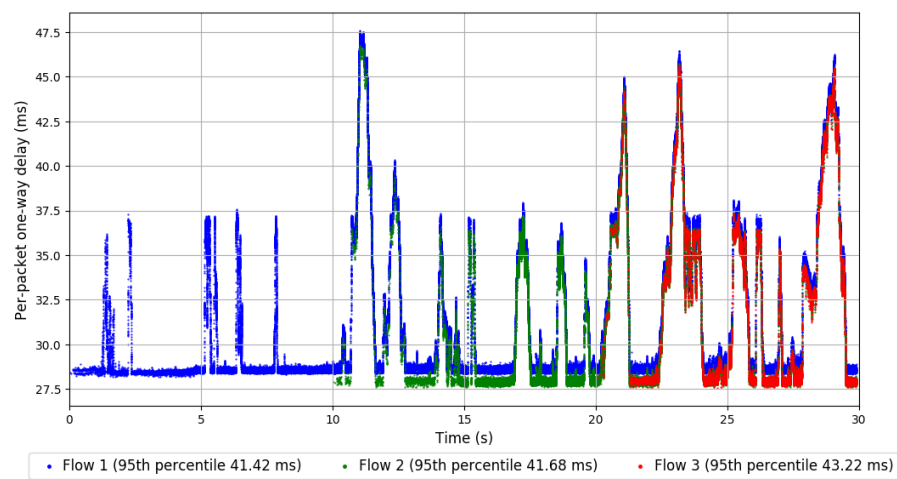
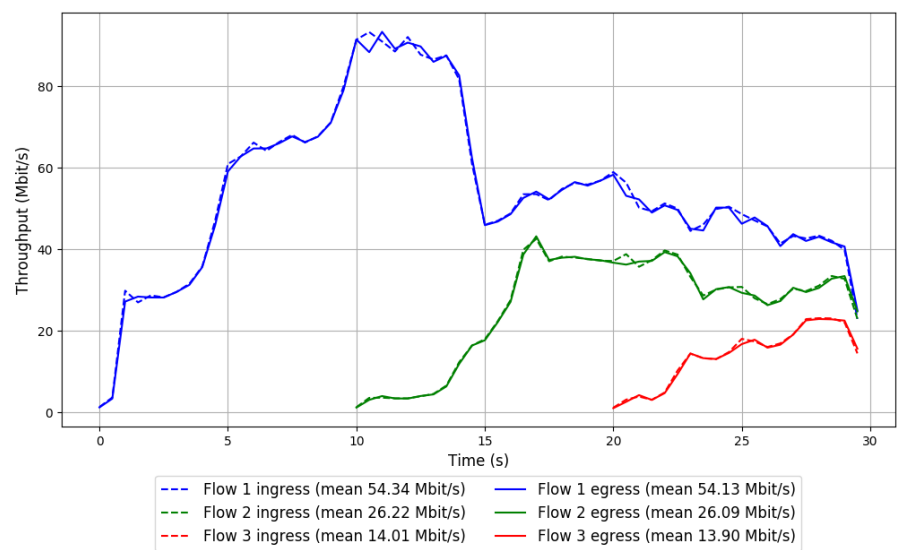


Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 18:23:55  
End at: 2018-02-16 18:24:25  
Local clock offset: 0.035 ms  
Remote clock offset: -3.623 ms

# Below is generated by plot.py at 2018-02-16 20:07:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.05 Mbit/s  
95th percentile per-packet one-way delay: 41.724 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 54.13 Mbit/s  
95th percentile per-packet one-way delay: 41.422 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 26.09 Mbit/s  
95th percentile per-packet one-way delay: 41.684 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 13.90 Mbit/s  
95th percentile per-packet one-way delay: 43.224 ms  
Loss rate: 0.74%

Run 9: Report of Vivace-latency — Data Link

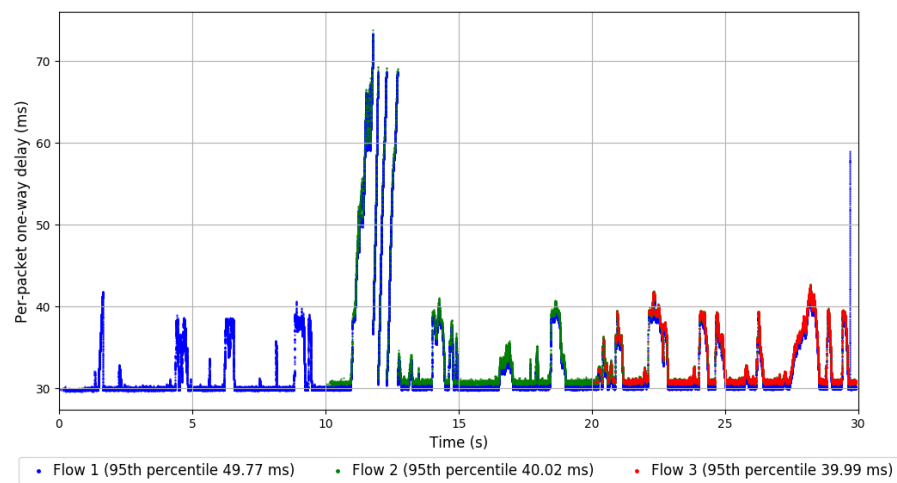
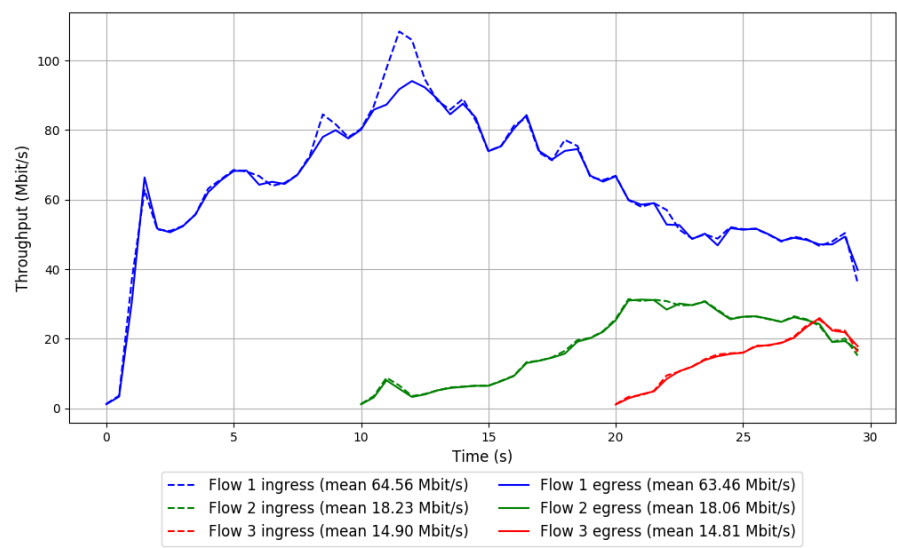


Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 18:49:12  
End at: 2018-02-16 18:49:42  
Local clock offset: -0.042 ms  
Remote clock offset: -5.028 ms

# Below is generated by plot.py at 2018-02-16 20:07:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.34 Mbit/s  
95th percentile per-packet one-way delay: 44.919 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 63.46 Mbit/s  
95th percentile per-packet one-way delay: 49.774 ms  
Loss rate: 1.69%  
-- Flow 2:  
Average throughput: 18.06 Mbit/s  
95th percentile per-packet one-way delay: 40.025 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 14.81 Mbit/s  
95th percentile per-packet one-way delay: 39.987 ms  
Loss rate: 0.63%

Run 10: Report of Vivace-latency — Data Link

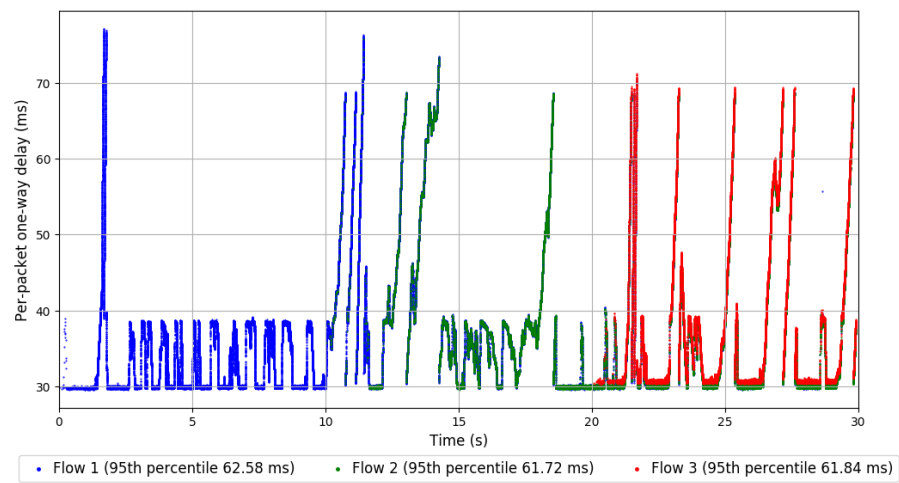
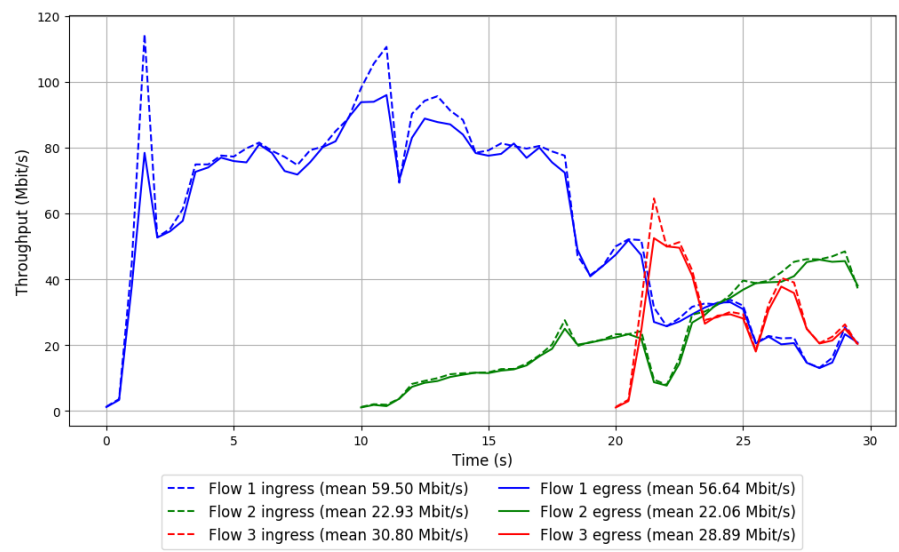


Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 15:04:11  
End at: 2018-02-16 15:04:41  
Local clock offset: 0.213 ms  
Remote clock offset: -4.734 ms

# Below is generated by plot.py at 2018-02-16 20:07:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.83 Mbit/s  
95th percentile per-packet one-way delay: 62.394 ms  
Loss rate: 4.77%  
-- Flow 1:  
Average throughput: 56.64 Mbit/s  
95th percentile per-packet one-way delay: 62.578 ms  
Loss rate: 4.79%  
-- Flow 2:  
Average throughput: 22.06 Mbit/s  
95th percentile per-packet one-way delay: 61.723 ms  
Loss rate: 3.81%  
-- Flow 3:  
Average throughput: 28.89 Mbit/s  
95th percentile per-packet one-way delay: 61.839 ms  
Loss rate: 6.12%

Run 1: Report of Vivace-loss — Data Link



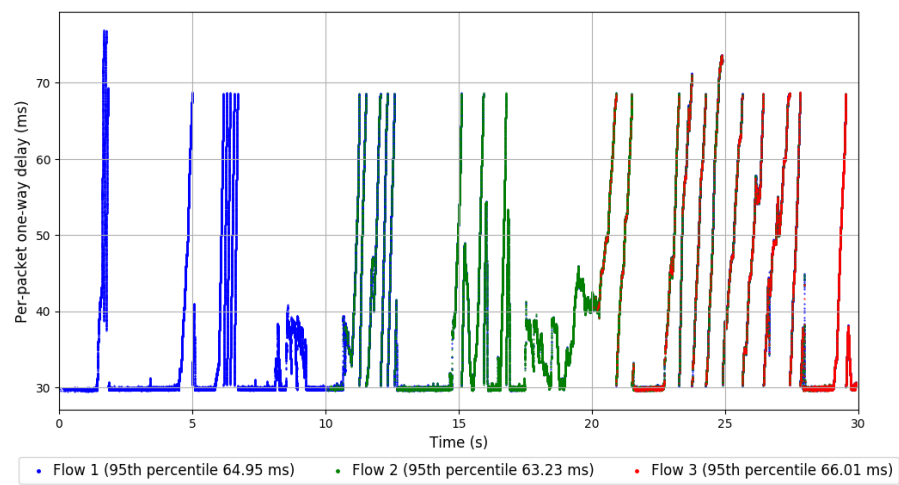
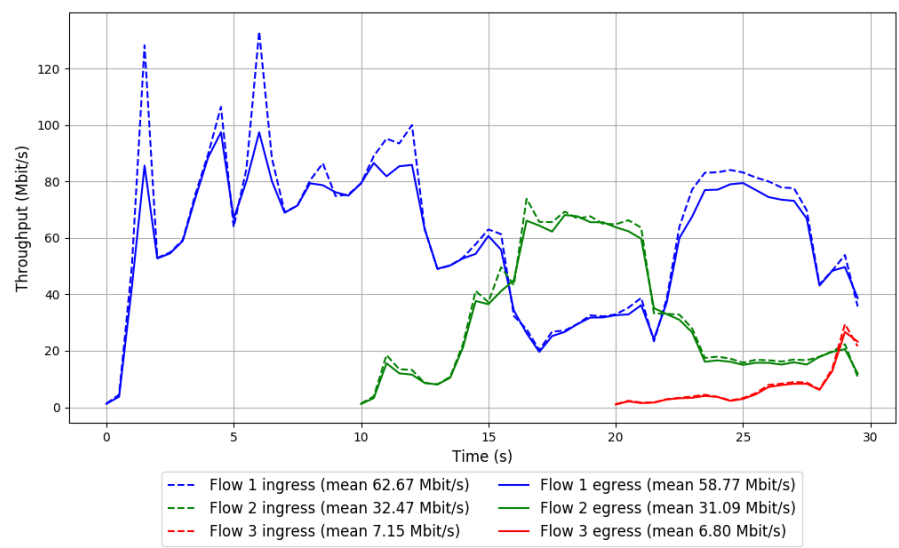
Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 15:30:47  
End at: 2018-02-16 15:31:17  
Local clock offset: 0.051 ms  
Remote clock offset: -5.671 ms

# Below is generated by plot.py at 2018-02-16 20:07:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.67 Mbit/s  
95th percentile per-packet one-way delay: 64.640 ms  
Loss rate: 5.70%  
-- Flow 1:  
Average throughput: 58.77 Mbit/s  
95th percentile per-packet one-way delay: 64.955 ms  
Loss rate: 6.22%  
-- Flow 2:  
Average throughput: 31.09 Mbit/s  
95th percentile per-packet one-way delay: 63.225 ms  
Loss rate: 4.25%  
-- Flow 3:  
Average throughput: 6.80 Mbit/s  
95th percentile per-packet one-way delay: 66.012 ms  
Loss rate: 5.03%



Run 2: Report of Vivace-loss — Data Link

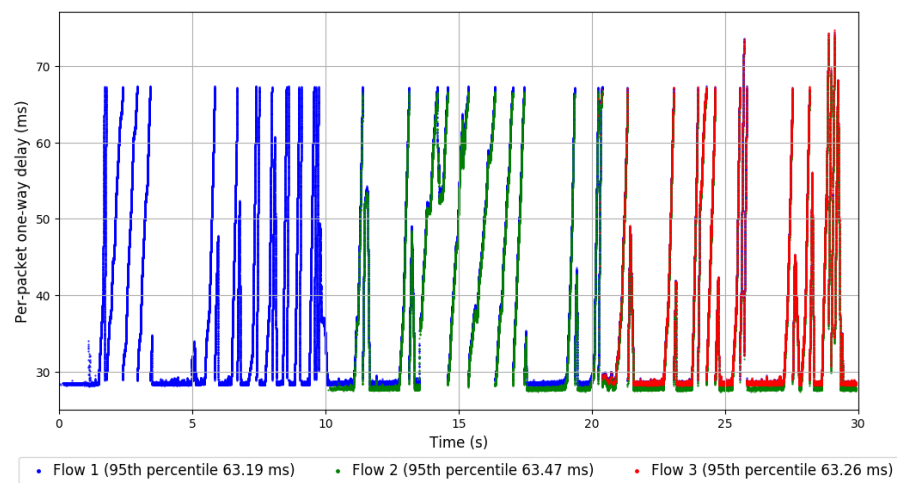
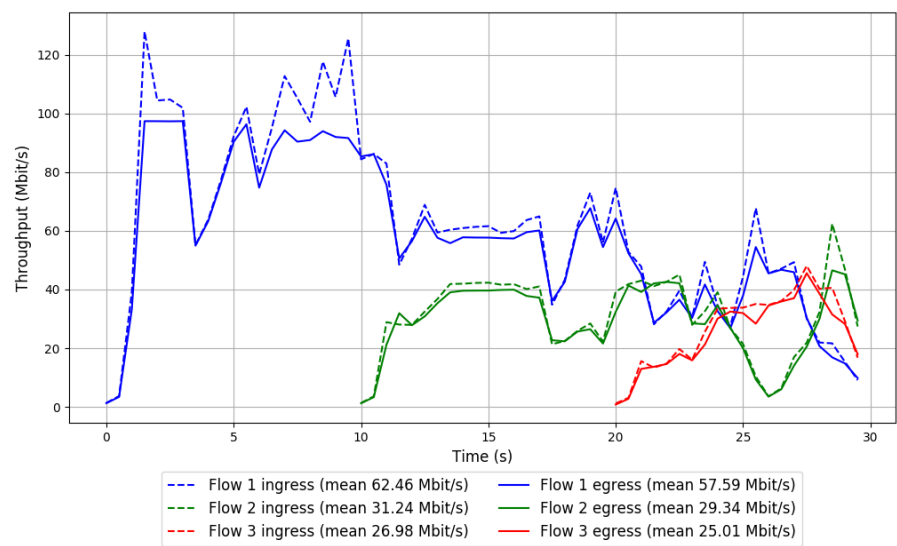


Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 15:56:04  
End at: 2018-02-16 15:56:34  
Local clock offset: -0.237 ms  
Remote clock offset: -6.168 ms

# Below is generated by plot.py at 2018-02-16 20:08:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.33 Mbit/s  
95th percentile per-packet one-way delay: 63.277 ms  
Loss rate: 7.37%  
-- Flow 1:  
Average throughput: 57.59 Mbit/s  
95th percentile per-packet one-way delay: 63.194 ms  
Loss rate: 7.80%  
-- Flow 2:  
Average throughput: 29.34 Mbit/s  
95th percentile per-packet one-way delay: 63.474 ms  
Loss rate: 6.10%  
-- Flow 3:  
Average throughput: 25.01 Mbit/s  
95th percentile per-packet one-way delay: 63.259 ms  
Loss rate: 7.31%

Run 3: Report of Vivace-loss — Data Link

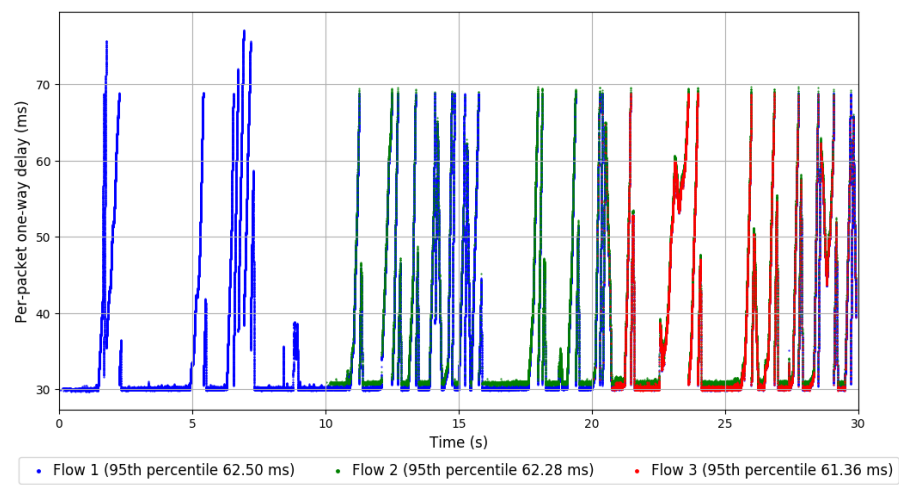
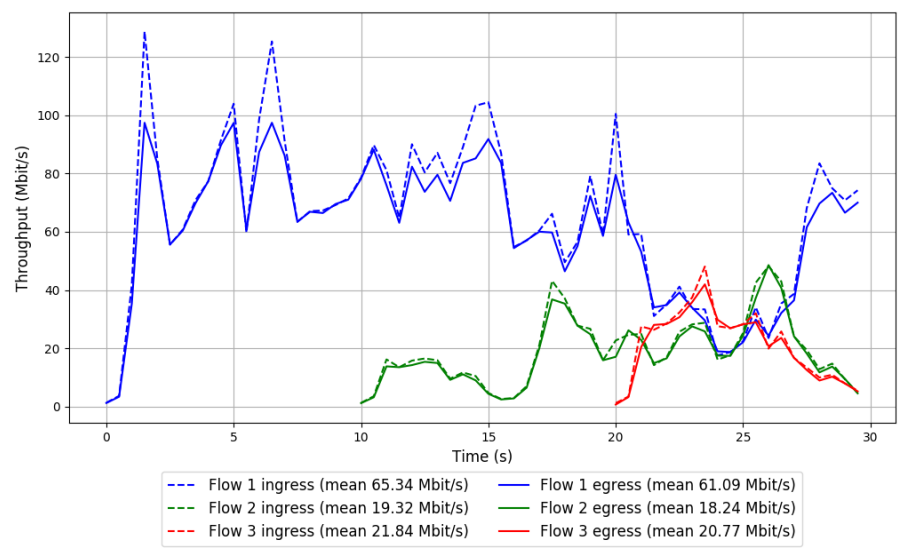


Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 16:21:18  
End at: 2018-02-16 16:21:48  
Local clock offset: -0.542 ms  
Remote clock offset: -3.642 ms

# Below is generated by plot.py at 2018-02-16 20:08:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.07 Mbit/s  
95th percentile per-packet one-way delay: 62.366 ms  
Loss rate: 6.20%  
-- Flow 1:  
Average throughput: 61.09 Mbit/s  
95th percentile per-packet one-way delay: 62.499 ms  
Loss rate: 6.48%  
-- Flow 2:  
Average throughput: 18.24 Mbit/s  
95th percentile per-packet one-way delay: 62.277 ms  
Loss rate: 5.54%  
-- Flow 3:  
Average throughput: 20.77 Mbit/s  
95th percentile per-packet one-way delay: 61.358 ms  
Loss rate: 4.81%

Run 4: Report of Vivace-loss — Data Link

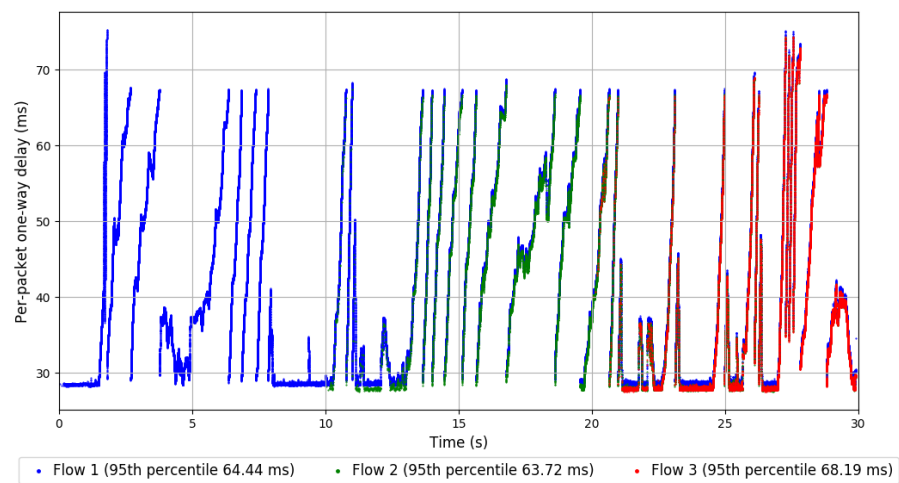
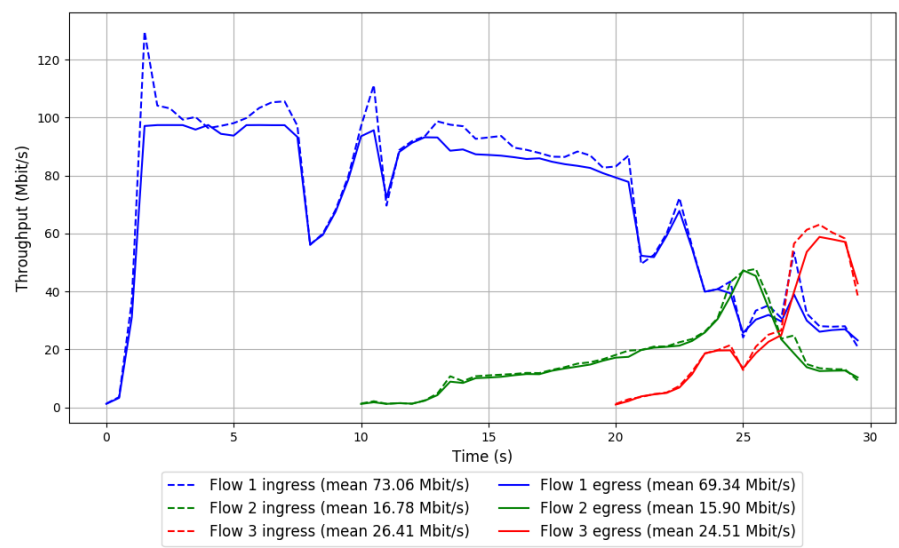


Run 5: Statistics of Vivace-loss

Start at: 2018-02-16 16:47:33  
End at: 2018-02-16 16:48:03  
Local clock offset: 0.292 ms  
Remote clock offset: -6.488 ms

# Below is generated by plot.py at 2018-02-16 20:08:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.97 Mbit/s  
95th percentile per-packet one-way delay: 64.579 ms  
Loss rate: 5.30%  
-- Flow 1:  
Average throughput: 69.34 Mbit/s  
95th percentile per-packet one-way delay: 64.440 ms  
Loss rate: 5.08%  
-- Flow 2:  
Average throughput: 15.90 Mbit/s  
95th percentile per-packet one-way delay: 63.722 ms  
Loss rate: 5.24%  
-- Flow 3:  
Average throughput: 24.51 Mbit/s  
95th percentile per-packet one-way delay: 68.188 ms  
Loss rate: 7.28%

Run 5: Report of Vivace-loss — Data Link



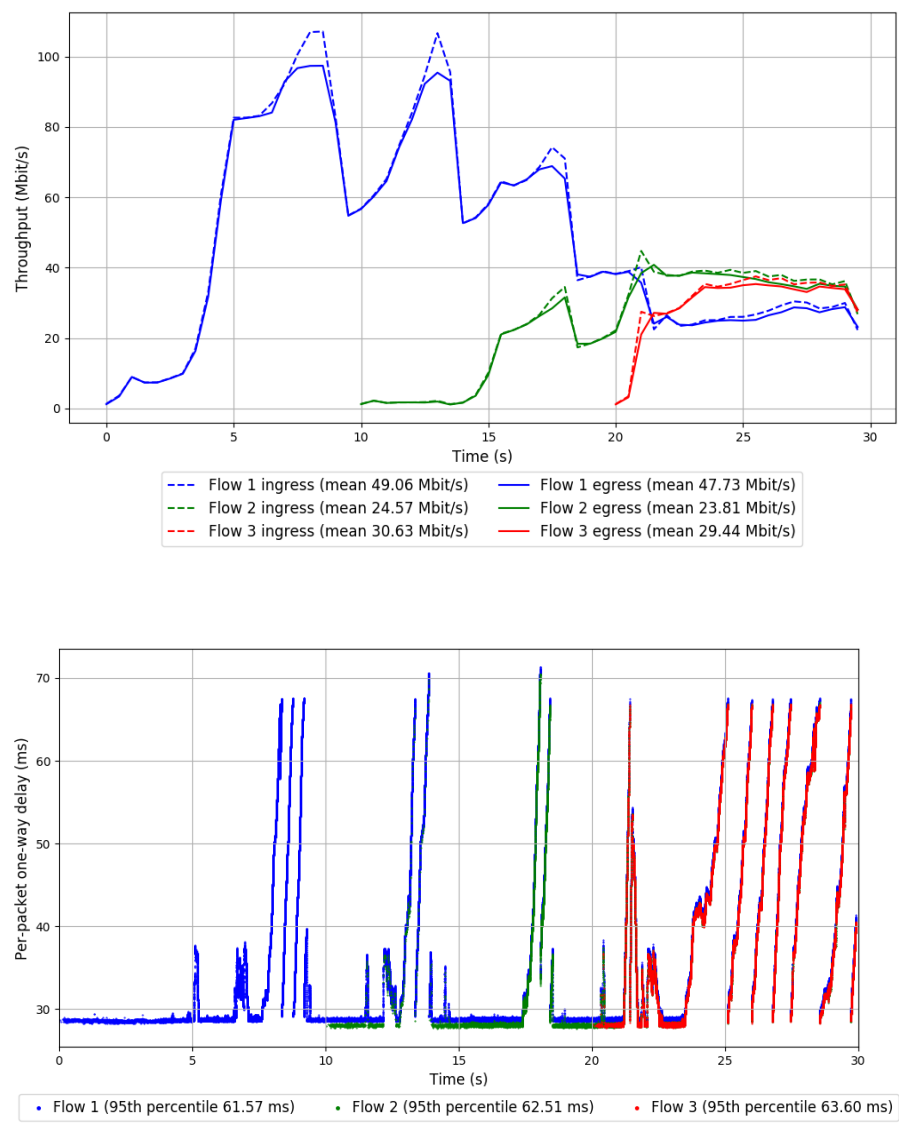
Run 6: Statistics of Vivace-loss

Start at: 2018-02-16 17:14:48  
End at: 2018-02-16 17:15:18  
Local clock offset: 0.421 ms  
Remote clock offset: -7.564 ms

# Below is generated by plot.py at 2018-02-16 20:08:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.28 Mbit/s  
95th percentile per-packet one-way delay: 62.261 ms  
Loss rate: 2.90%  
-- Flow 1:  
Average throughput: 47.73 Mbit/s  
95th percentile per-packet one-way delay: 61.567 ms  
Loss rate: 2.68%  
-- Flow 2:  
Average throughput: 23.81 Mbit/s  
95th percentile per-packet one-way delay: 62.513 ms  
Loss rate: 3.01%  
-- Flow 3:  
Average throughput: 29.44 Mbit/s  
95th percentile per-packet one-way delay: 63.604 ms  
Loss rate: 3.77%



Run 6: Report of Vivace-loss — Data Link

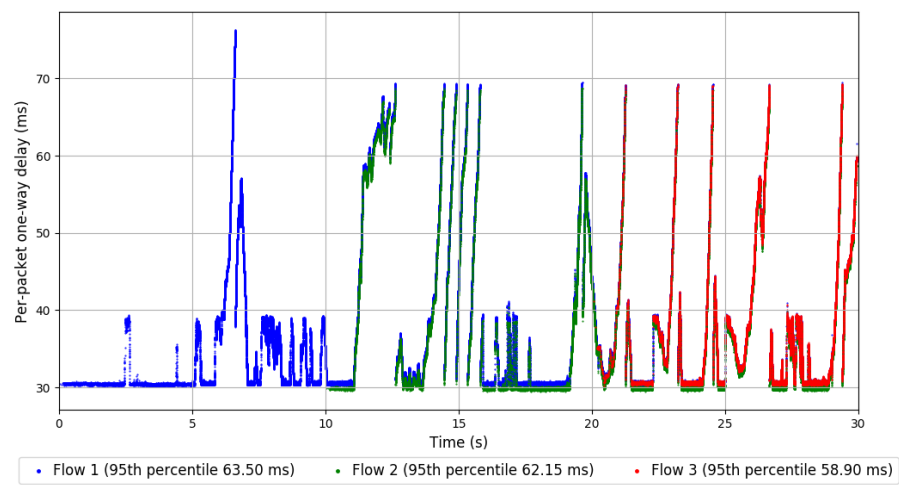
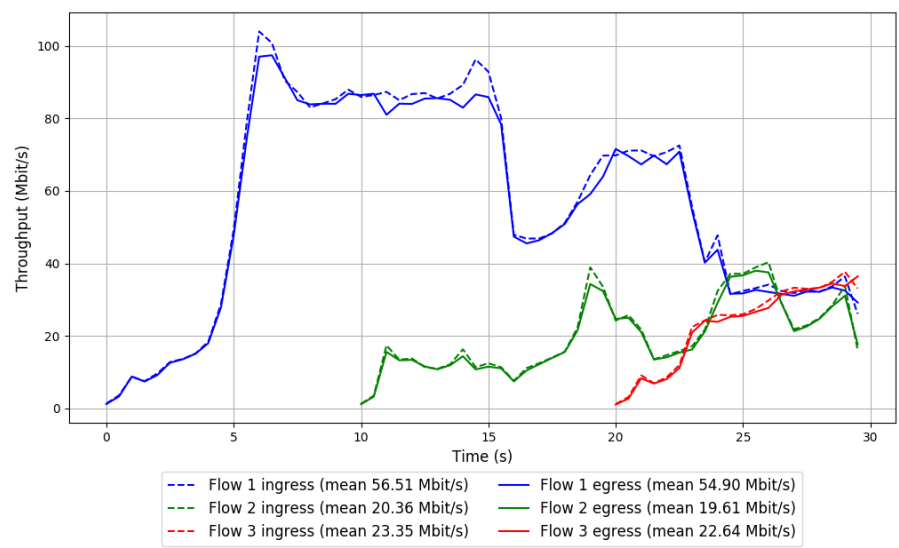


Run 7: Statistics of Vivace-loss

Start at: 2018-02-16 17:43:51  
End at: 2018-02-16 17:44:21  
Local clock offset: 0.497 ms  
Remote clock offset: -4.0 ms

# Below is generated by plot.py at 2018-02-16 20:08:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.41 Mbit/s  
95th percentile per-packet one-way delay: 63.049 ms  
Loss rate: 2.91%  
-- Flow 1:  
Average throughput: 54.90 Mbit/s  
95th percentile per-packet one-way delay: 63.498 ms  
Loss rate: 2.76%  
-- Flow 2:  
Average throughput: 19.61 Mbit/s  
95th percentile per-packet one-way delay: 62.152 ms  
Loss rate: 3.58%  
-- Flow 3:  
Average throughput: 22.64 Mbit/s  
95th percentile per-packet one-way delay: 58.895 ms  
Loss rate: 2.85%

Run 7: Report of Vivace-loss — Data Link

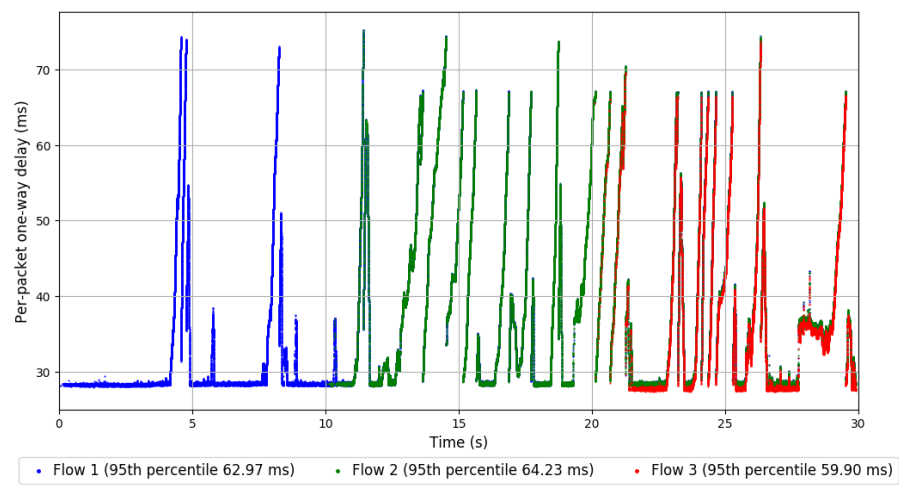
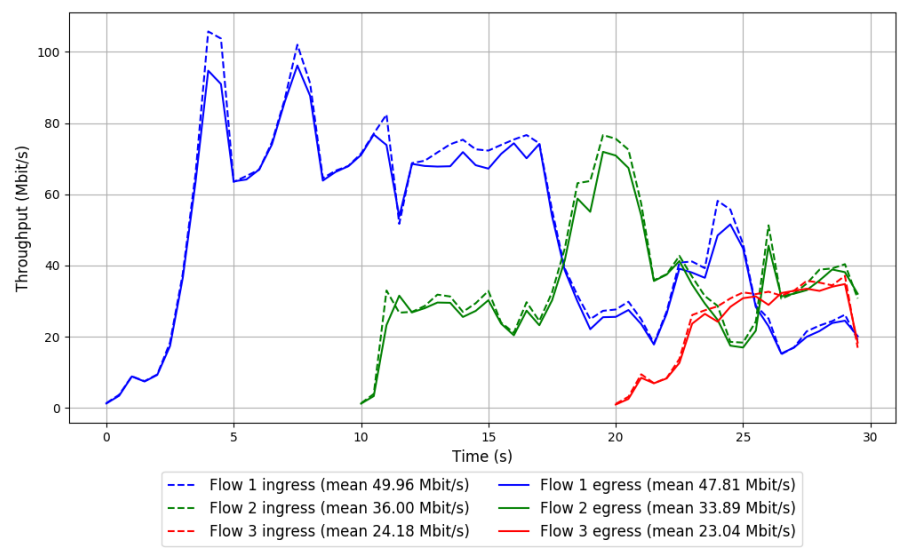


Run 8: Statistics of Vivace-loss

Start at: 2018-02-16 18:10:40  
End at: 2018-02-16 18:11:10  
Local clock offset: 0.433 ms  
Remote clock offset: -4.573 ms

# Below is generated by plot.py at 2018-02-16 20:09:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.90 Mbit/s  
95th percentile per-packet one-way delay: 63.167 ms  
Loss rate: 4.84%  
-- Flow 1:  
Average throughput: 47.81 Mbit/s  
95th percentile per-packet one-way delay: 62.974 ms  
Loss rate: 4.30%  
-- Flow 2:  
Average throughput: 33.89 Mbit/s  
95th percentile per-packet one-way delay: 64.232 ms  
Loss rate: 5.87%  
-- Flow 3:  
Average throughput: 23.04 Mbit/s  
95th percentile per-packet one-way delay: 59.898 ms  
Loss rate: 5.09%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 18:36:23

End at: 2018-02-16 18:36:53

Local clock offset: -0.025 ms

Remote clock offset: -4.44 ms

# Below is generated by plot.py at 2018-02-16 20:09:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.09 Mbit/s

95th percentile per-packet one-way delay: 64.494 ms

Loss rate: 6.00%

-- Flow 1:

Average throughput: 63.05 Mbit/s

95th percentile per-packet one-way delay: 64.484 ms

Loss rate: 5.89%

-- Flow 2:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 64.432 ms

Loss rate: 6.35%

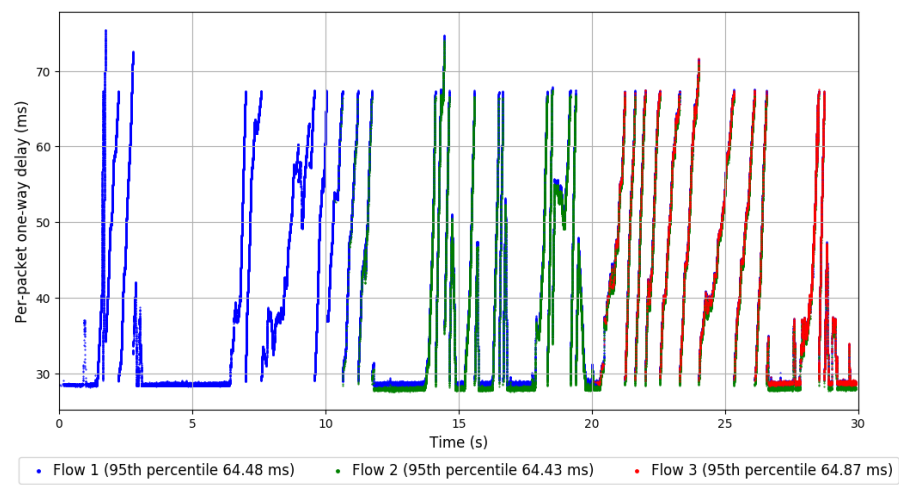
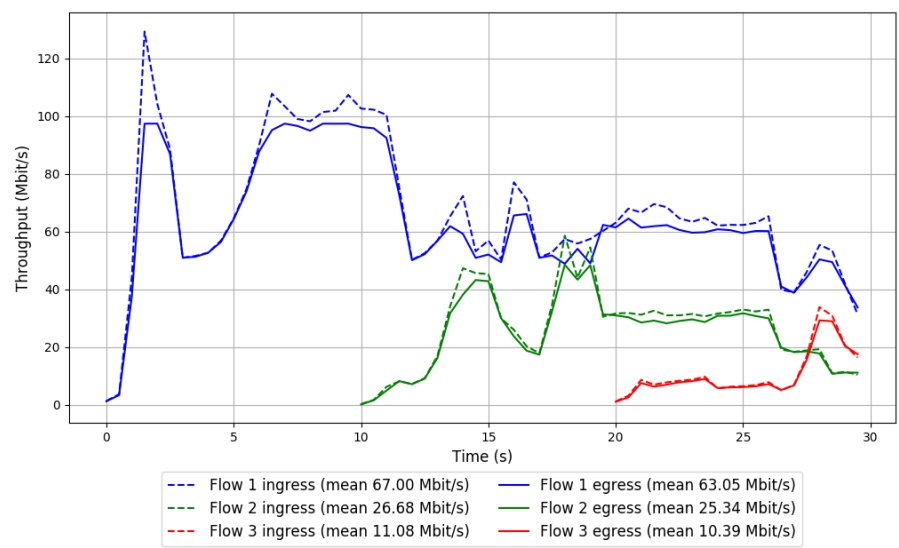
-- Flow 3:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 64.868 ms

Loss rate: 6.17%

Run 9: Report of Vivace-loss — Data Link



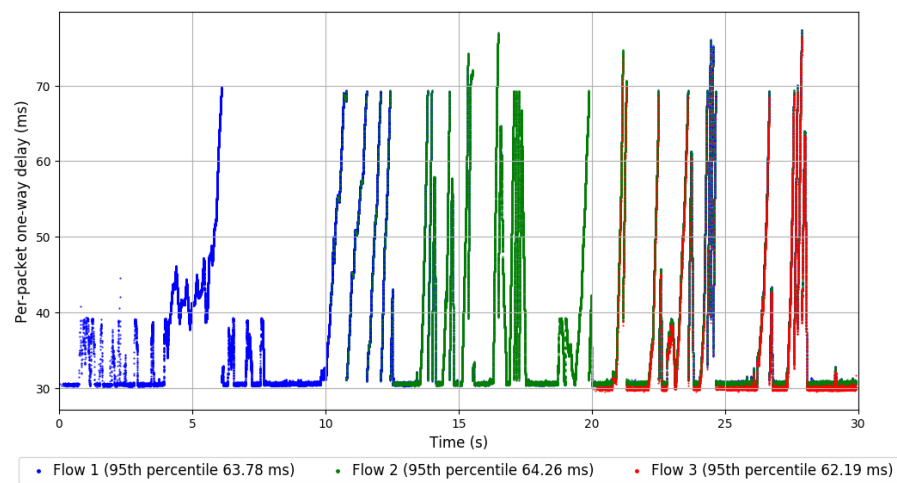
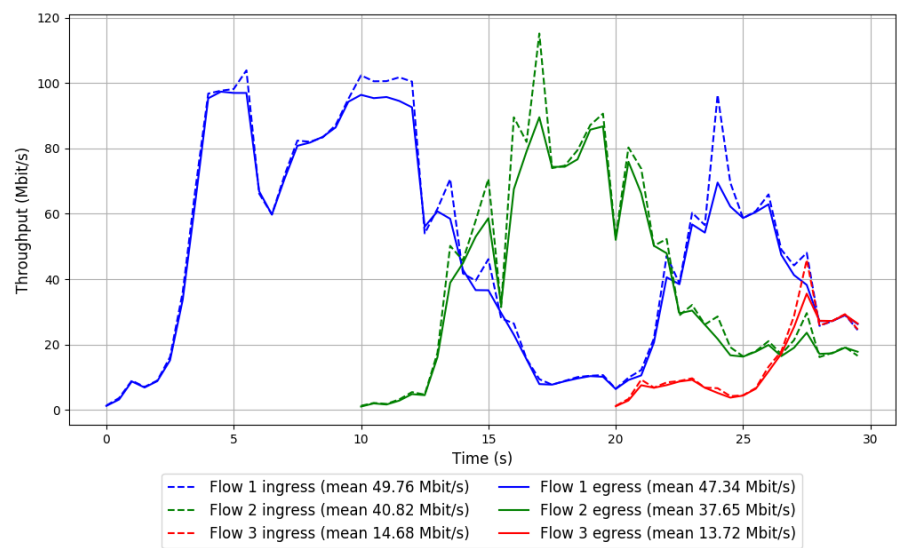
Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 19:01:31  
End at: 2018-02-16 19:02:01  
Local clock offset: 0.45 ms  
Remote clock offset: -6.454 ms

# Below is generated by plot.py at 2018-02-16 20:09:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.88 Mbit/s  
95th percentile per-packet one-way delay: 63.871 ms  
Loss rate: 5.93%  
-- Flow 1:  
Average throughput: 47.34 Mbit/s  
95th percentile per-packet one-way delay: 63.785 ms  
Loss rate: 4.86%  
-- Flow 2:  
Average throughput: 37.65 Mbit/s  
95th percentile per-packet one-way delay: 64.264 ms  
Loss rate: 7.76%  
-- Flow 3:  
Average throughput: 13.72 Mbit/s  
95th percentile per-packet one-way delay: 62.187 ms  
Loss rate: 6.53%



Run 10: Report of Vivace-loss — Data Link

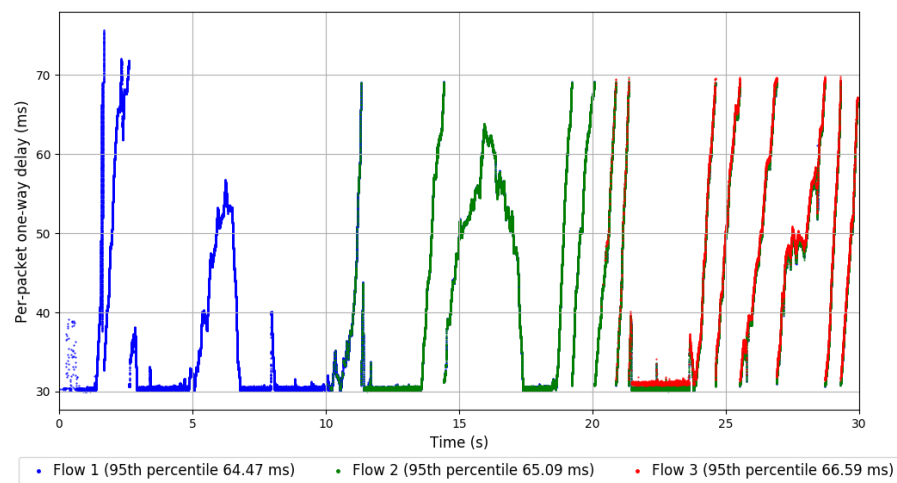
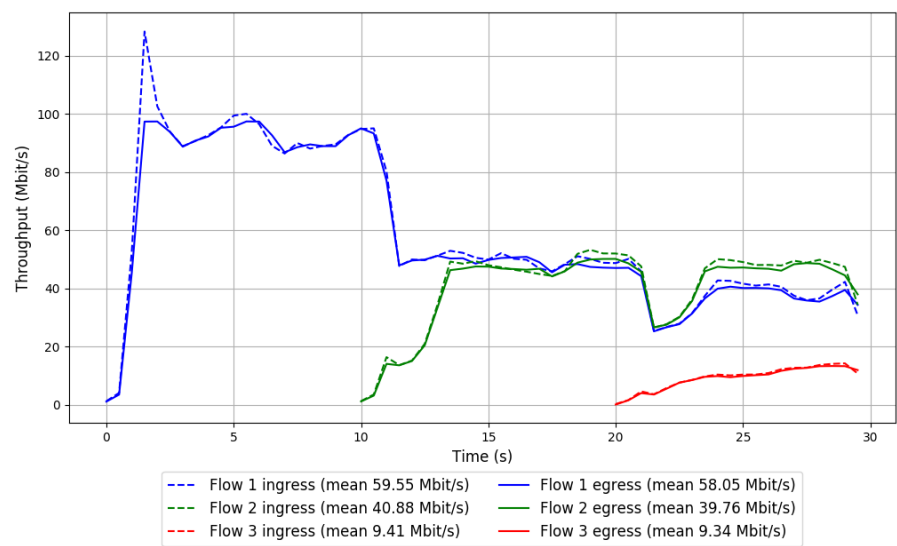


Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 14:46:45  
End at: 2018-02-16 14:47:15  
Local clock offset: 0.282 ms  
Remote clock offset: -4.146 ms

# Below is generated by plot.py at 2018-02-16 20:09:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.51 Mbit/s  
95th percentile per-packet one-way delay: 64.888 ms  
Loss rate: 2.47%  
-- Flow 1:  
Average throughput: 58.05 Mbit/s  
95th percentile per-packet one-way delay: 64.466 ms  
Loss rate: 2.40%  
-- Flow 2:  
Average throughput: 39.76 Mbit/s  
95th percentile per-packet one-way delay: 65.088 ms  
Loss rate: 2.55%  
-- Flow 3:  
Average throughput: 9.34 Mbit/s  
95th percentile per-packet one-way delay: 66.595 ms  
Loss rate: 3.02%

Run 1: Report of Vivace-LTE — Data Link

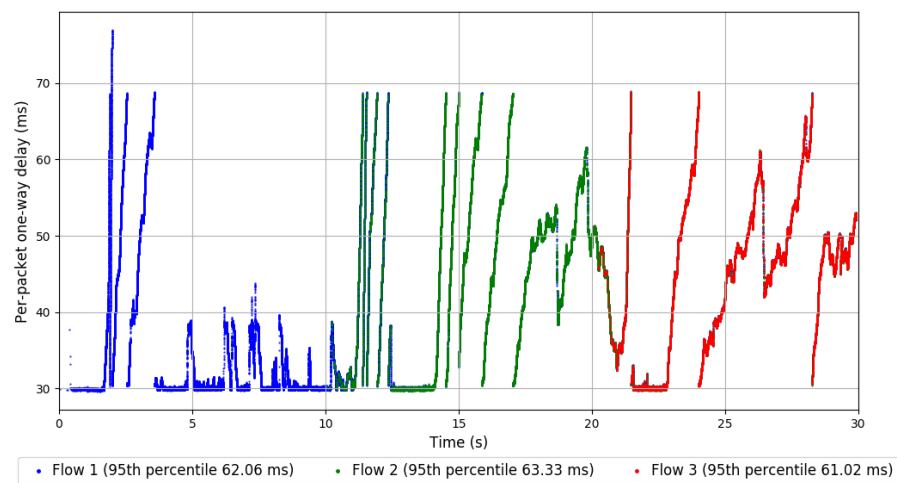
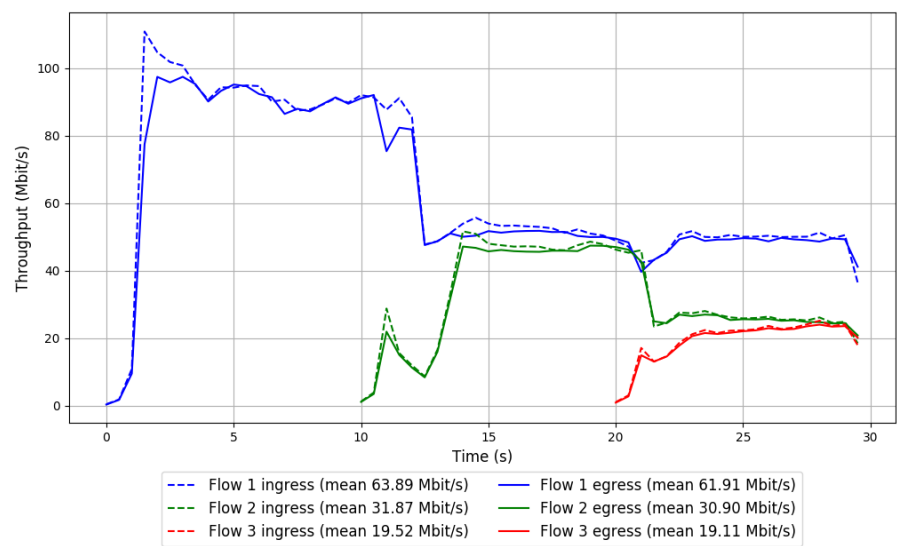


Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 15:13:28  
End at: 2018-02-16 15:13:58  
Local clock offset: 0.332 ms  
Remote clock offset: -5.103 ms

# Below is generated by plot.py at 2018-02-16 20:09:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.75 Mbit/s  
95th percentile per-packet one-way delay: 62.231 ms  
Loss rate: 2.94%  
-- Flow 1:  
Average throughput: 61.91 Mbit/s  
95th percentile per-packet one-way delay: 62.057 ms  
Loss rate: 3.03%  
-- Flow 2:  
Average throughput: 30.90 Mbit/s  
95th percentile per-packet one-way delay: 63.326 ms  
Loss rate: 2.94%  
-- Flow 3:  
Average throughput: 19.11 Mbit/s  
95th percentile per-packet one-way delay: 61.016 ms  
Loss rate: 2.06%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 15:39:36

End at: 2018-02-16 15:40:06

Local clock offset: -0.102 ms

Remote clock offset: -7.55 ms

# Below is generated by plot.py at 2018-02-16 20:09:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.37 Mbit/s

95th percentile per-packet one-way delay: 63.419 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 62.615 ms

Loss rate: 2.63%

-- Flow 2:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 63.801 ms

Loss rate: 2.33%

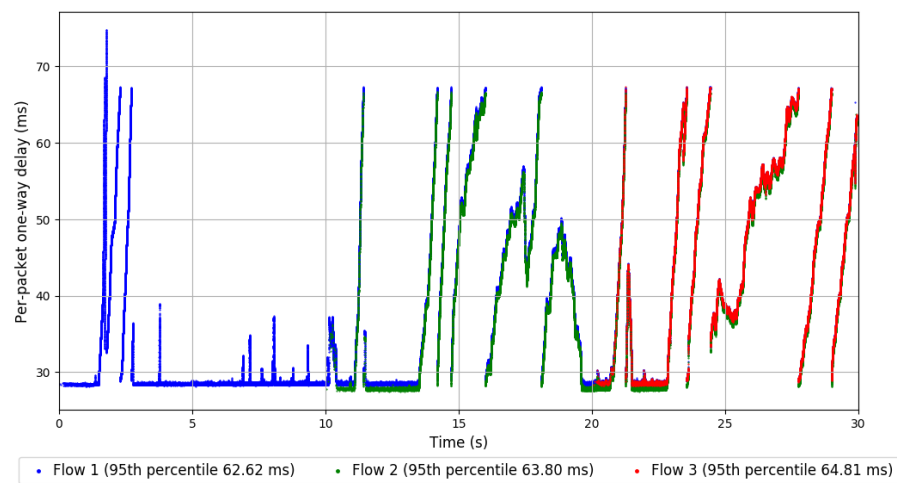
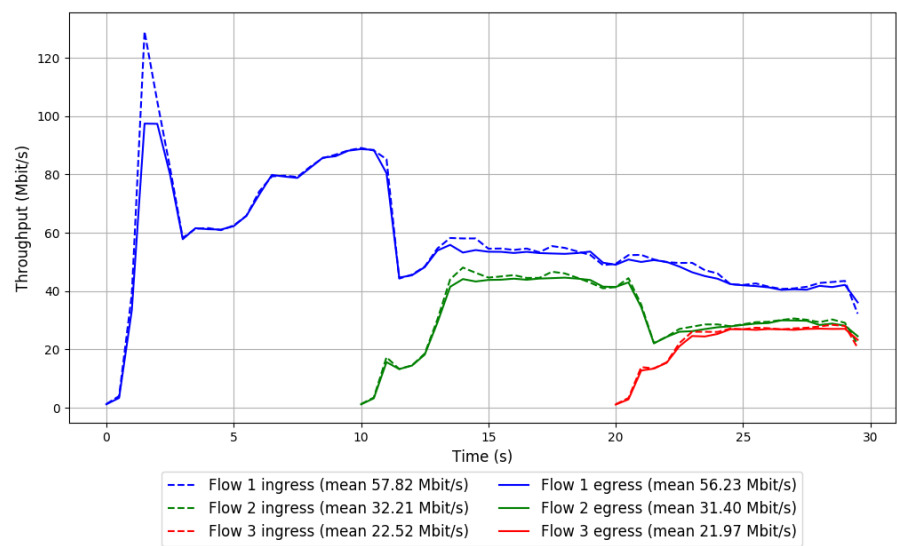
-- Flow 3:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 64.805 ms

Loss rate: 2.10%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 16:04:32

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

Local clock offset: -0.349 ms

Remote clock offset: -3.25 ms

# Below is generated by plot.py at 2018-02-16 20:09:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 61.859 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 61.075 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 29.31 Mbit/s

95th percentile per-packet one-way delay: 63.422 ms

Loss rate: 2.05%

-- Flow 3:

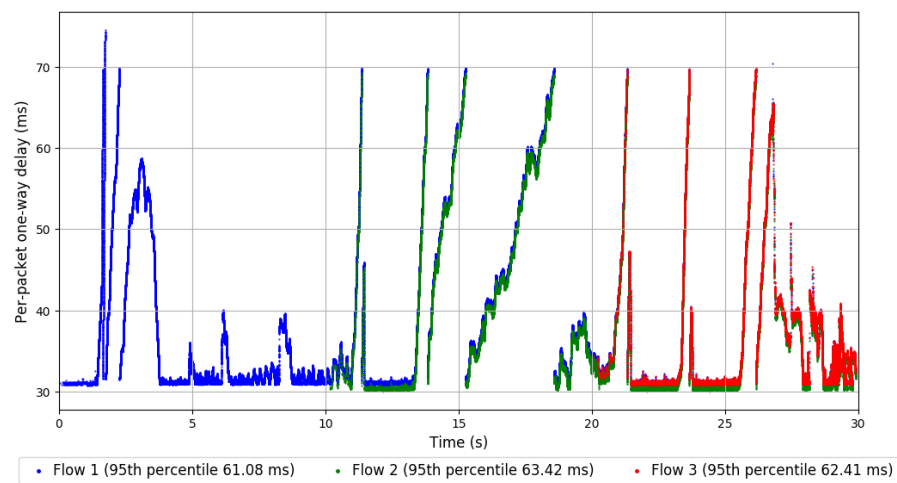
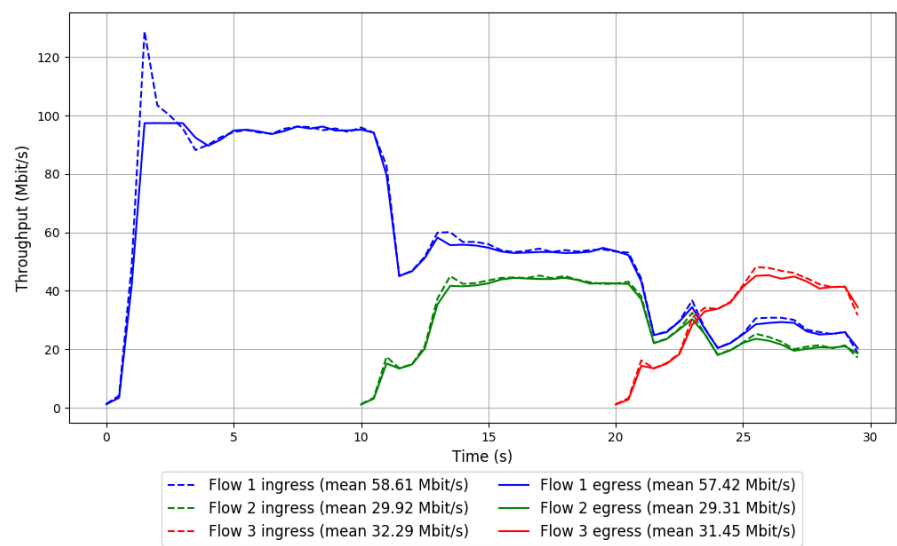
Average throughput: 31.45 Mbit/s

95th percentile per-packet one-way delay: 62.412 ms

Loss rate: 2.62%



Run 4: Report of Vivace-LTE — Data Link

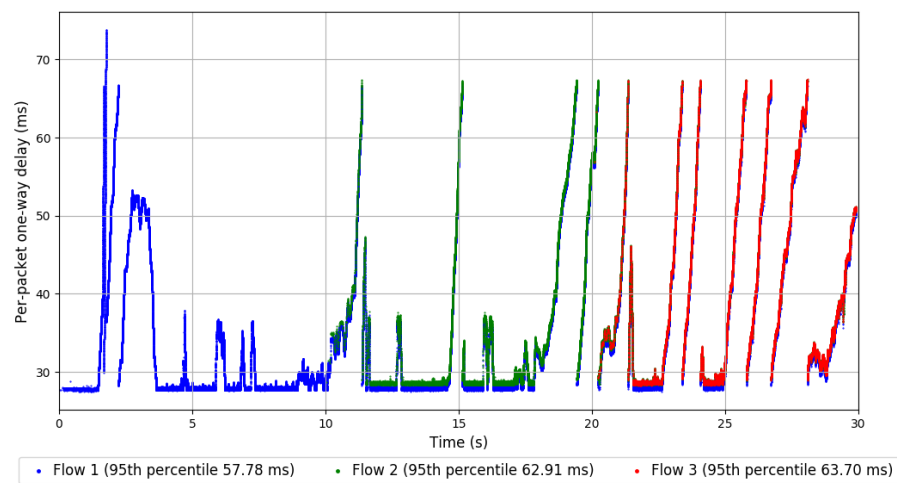
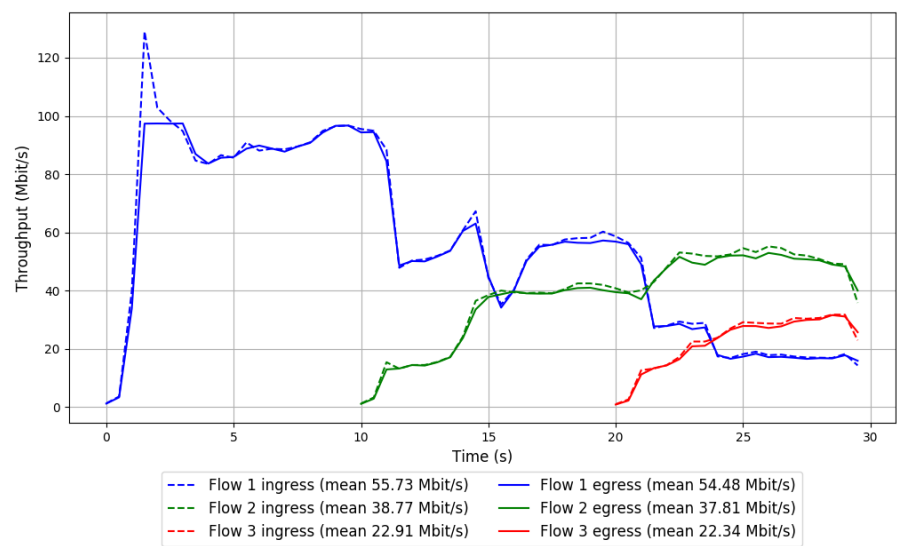


Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 16:30:49  
End at: 2018-02-16 16:31:19  
Local clock offset: -0.499 ms  
Remote clock offset: -6.084 ms

# Below is generated by plot.py at 2018-02-16 20:10:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.97 Mbit/s  
95th percentile per-packet one-way delay: 60.903 ms  
Loss rate: 2.26%  
-- Flow 1:  
Average throughput: 54.48 Mbit/s  
95th percentile per-packet one-way delay: 57.776 ms  
Loss rate: 2.17%  
-- Flow 2:  
Average throughput: 37.81 Mbit/s  
95th percentile per-packet one-way delay: 62.910 ms  
Loss rate: 2.38%  
-- Flow 3:  
Average throughput: 22.34 Mbit/s  
95th percentile per-packet one-way delay: 63.702 ms  
Loss rate: 2.52%

Run 5: Report of Vivace-LTE — Data Link

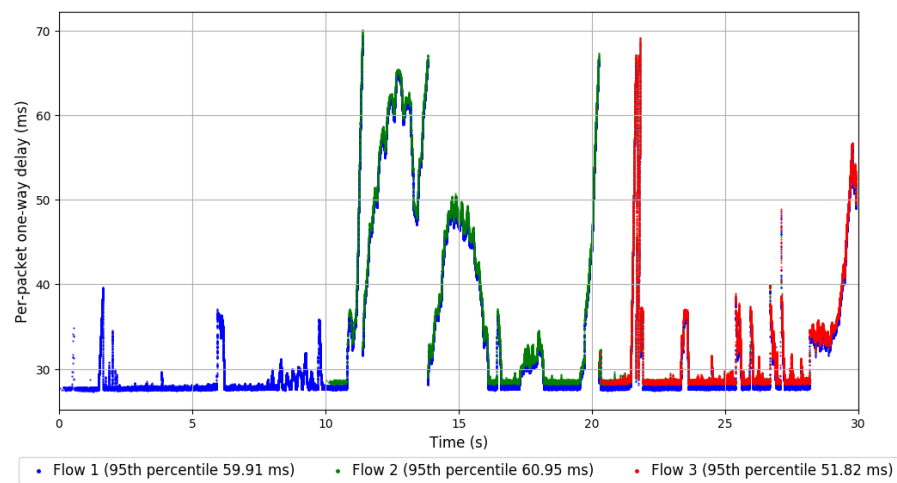
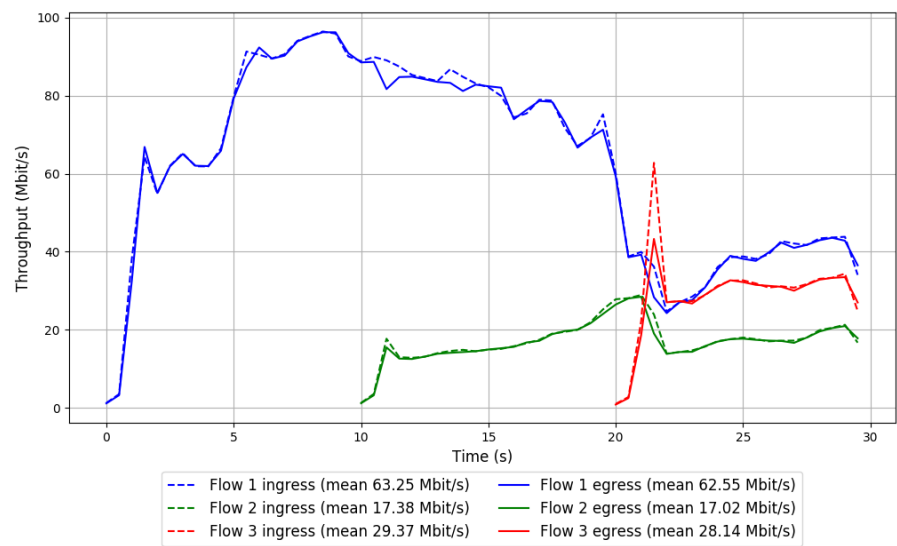


Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 16:56:25  
End at: 2018-02-16 16:56:55  
Local clock offset: 0.442 ms  
Remote clock offset: -6.774 ms

# Below is generated by plot.py at 2018-02-16 20:10:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.12 Mbit/s  
95th percentile per-packet one-way delay: 59.457 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 62.55 Mbit/s  
95th percentile per-packet one-way delay: 59.911 ms  
Loss rate: 1.04%  
-- Flow 2:  
Average throughput: 17.02 Mbit/s  
95th percentile per-packet one-way delay: 60.953 ms  
Loss rate: 1.96%  
-- Flow 3:  
Average throughput: 28.14 Mbit/s  
95th percentile per-packet one-way delay: 51.816 ms  
Loss rate: 4.26%

Run 6: Report of Vivace-LTE — Data Link

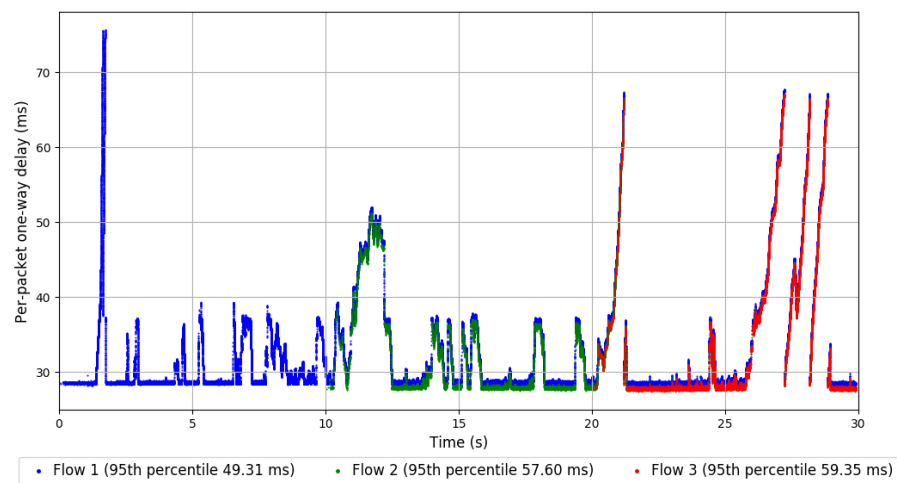
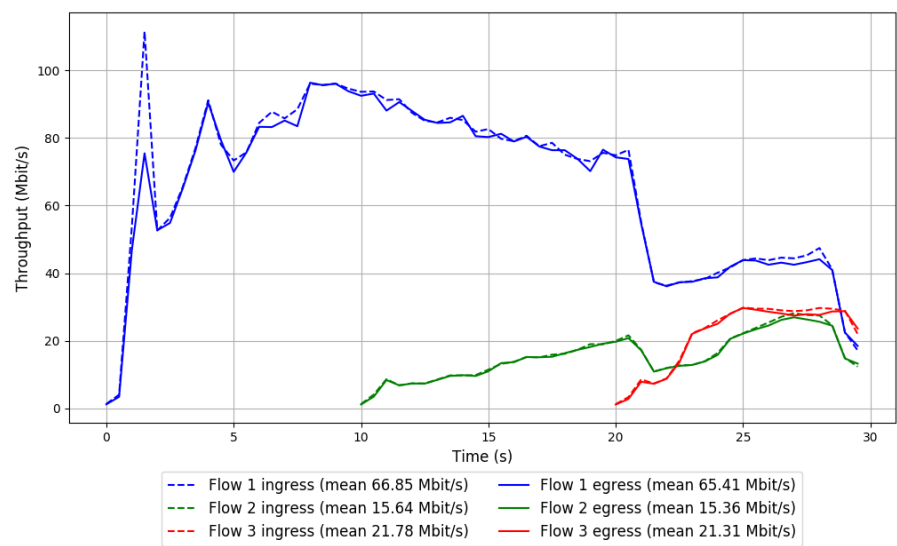


Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 17:25:08  
End at: 2018-02-16 17:25:38  
Local clock offset: 0.394 ms  
Remote clock offset: -8.373 ms

# Below is generated by plot.py at 2018-02-16 20:10:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.65 Mbit/s  
95th percentile per-packet one-way delay: 51.467 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 65.41 Mbit/s  
95th percentile per-packet one-way delay: 49.309 ms  
Loss rate: 2.15%  
-- Flow 2:  
Average throughput: 15.36 Mbit/s  
95th percentile per-packet one-way delay: 57.600 ms  
Loss rate: 1.79%  
-- Flow 3:  
Average throughput: 21.31 Mbit/s  
95th percentile per-packet one-way delay: 59.351 ms  
Loss rate: 2.16%

Run 7: Report of Vivace-LTE — Data Link



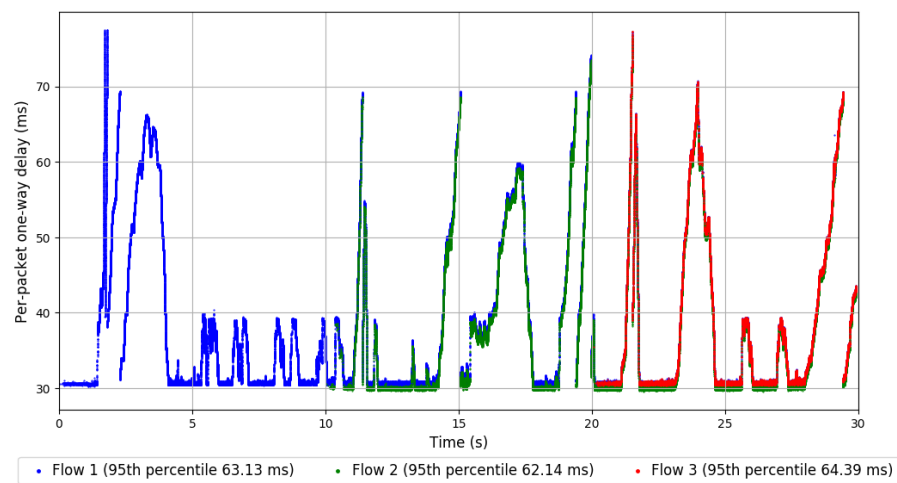
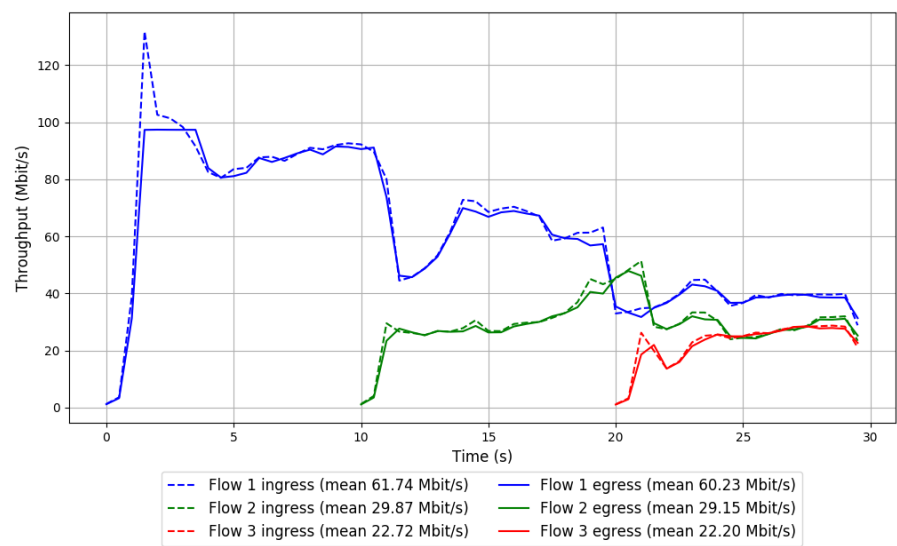
Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 17:53:13  
End at: 2018-02-16 17:53:43  
Local clock offset: 0.441 ms  
Remote clock offset: -3.405 ms

# Below is generated by plot.py at 2018-02-16 20:10:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.92 Mbit/s  
95th percentile per-packet one-way delay: 63.047 ms  
Loss rate: 2.37%  
-- Flow 1:  
Average throughput: 60.23 Mbit/s  
95th percentile per-packet one-way delay: 63.132 ms  
Loss rate: 2.40%  
-- Flow 2:  
Average throughput: 29.15 Mbit/s  
95th percentile per-packet one-way delay: 62.138 ms  
Loss rate: 2.37%  
-- Flow 3:  
Average throughput: 22.20 Mbit/s  
95th percentile per-packet one-way delay: 64.392 ms  
Loss rate: 2.20%



Run 8: Report of Vivace-LTE — Data Link

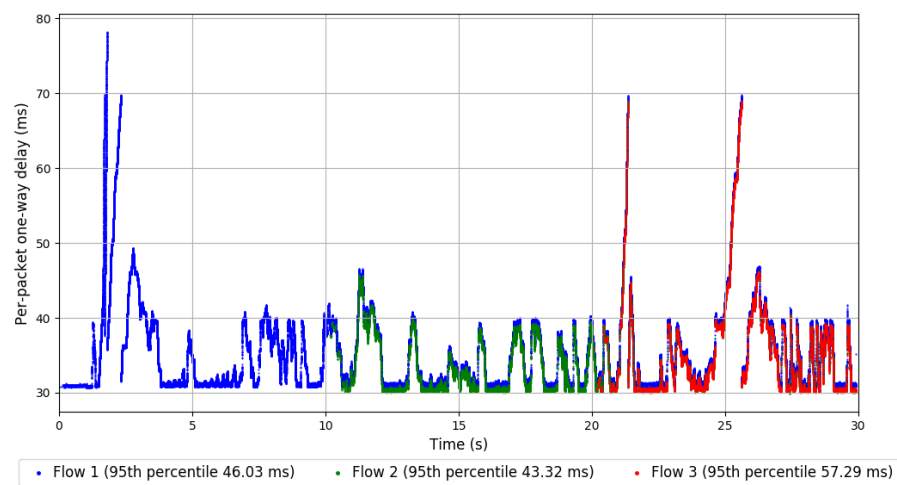
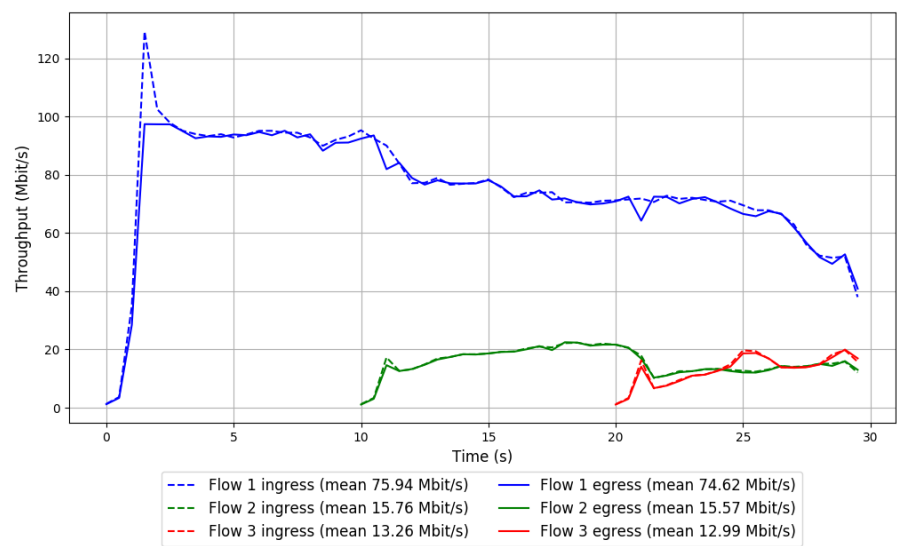


Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 18:19:48  
End at: 2018-02-16 18:20:18  
Local clock offset: 0.204 ms  
Remote clock offset: -1.433 ms

# Below is generated by plot.py at 2018-02-16 20:10:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.24 Mbit/s  
95th percentile per-packet one-way delay: 45.989 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 74.62 Mbit/s  
95th percentile per-packet one-way delay: 46.026 ms  
Loss rate: 1.72%  
-- Flow 2:  
Average throughput: 15.57 Mbit/s  
95th percentile per-packet one-way delay: 43.323 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 12.99 Mbit/s  
95th percentile per-packet one-way delay: 57.289 ms  
Loss rate: 2.10%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 18:45:05  
End at: 2018-02-16 18:45:35  
Local clock offset: -0.102 ms  
Remote clock offset: -4.422 ms

# Below is generated by plot.py at 2018-02-16 20:10:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.51 Mbit/s  
95th percentile per-packet one-way delay: 63.474 ms  
Loss rate: 2.92%  
-- Flow 1:  
Average throughput: 59.76 Mbit/s  
95th percentile per-packet one-way delay: 62.682 ms  
Loss rate: 2.93%  
-- Flow 2:  
Average throughput: 26.60 Mbit/s  
95th percentile per-packet one-way delay: 64.160 ms  
Loss rate: 2.62%  
-- Flow 3:  
Average throughput: 15.43 Mbit/s  
95th percentile per-packet one-way delay: 66.987 ms  
Loss rate: 3.79%

Run 10: Report of Vivace-LTE — Data Link

