

Pantheon Report

Generated at 2018-04-03 04:23:07 (UTC).

Data path: Stanford ppp0 (*remote*) → AWS California 1 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 3 times.

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

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

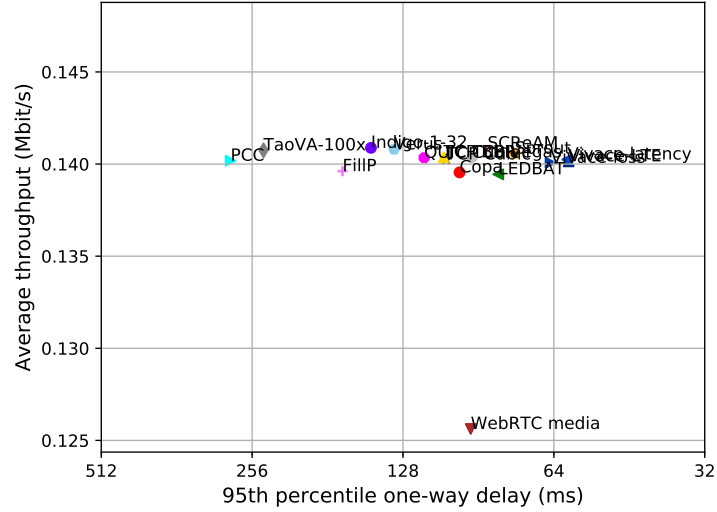
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

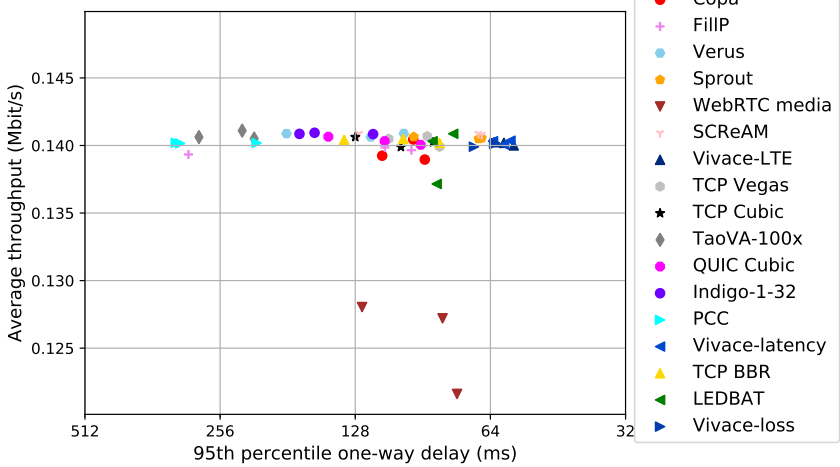
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
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 @ f271183af822eee5d0031620f4bebf38aedc5581
```

test from Stanford ppp0 to AWS California 1 Ethernet, 3 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Stanford ppp0 to AWS California 1 Ethernet, 3 runs of 30s each per scheme
 3 flows with 10s interval between flows



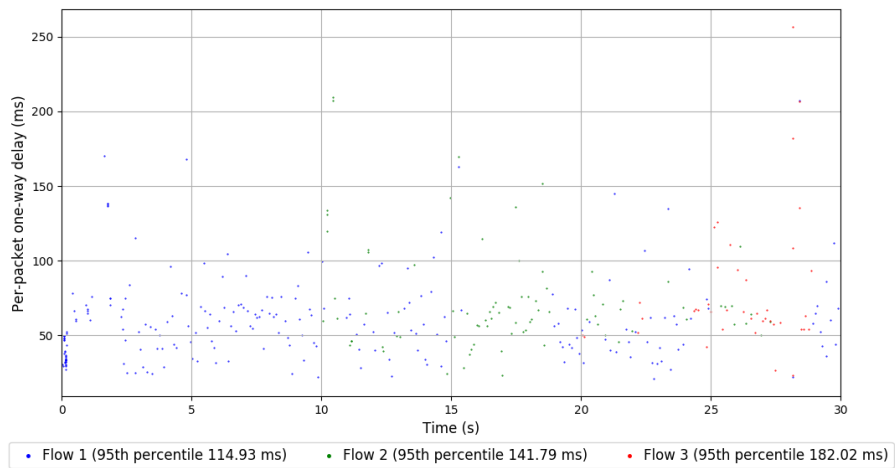
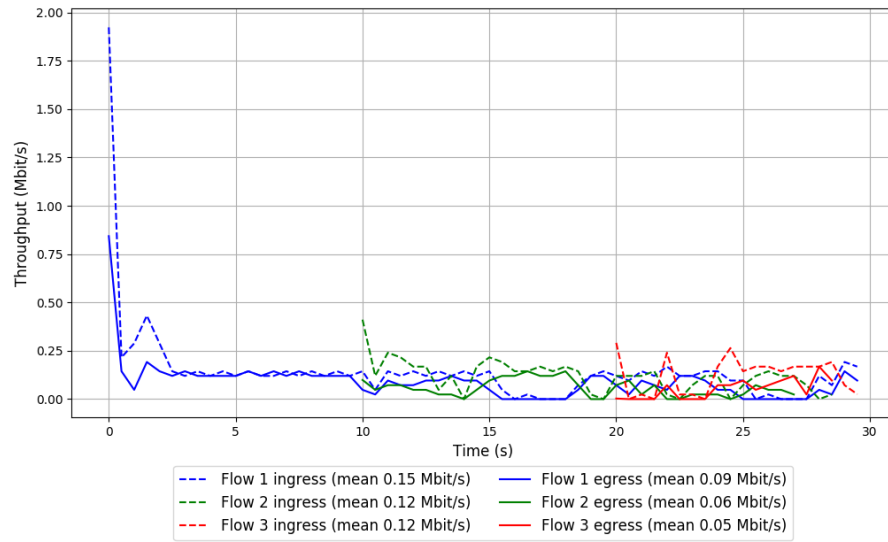
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	3	0.10	0.03	0.06	100.05	99.12	149.68	34.11	68.93	55.12
TCP Cubic	3	0.09	0.07	0.04	101.51	110.59	78.55	42.63	51.75	56.88
LEDBAT	3	0.09	0.06	0.04	83.34	83.07	83.54	35.73	44.58	48.47
PCC	3	0.09	0.05	0.06	65.44	329.37	410.48	96.92	99.76	99.91
QUIC Cubic	3	0.10	0.05	0.03	111.27	114.55	99.49	68.25	74.19	82.64
SCReAM	3	0.09	0.06	0.03	85.41	87.99	85.21	9.69	28.62	53.42
WebRTC media	3	0.05	0.05	0.04	93.09	80.59	94.70	45.03	45.51	47.36
Sprout	3	0.09	0.05	0.04	79.88	71.66	72.07	58.67	74.48	79.19
TaoVA-100x	3	0.09	0.07	0.04	228.99	256.34	309.23	94.50	95.07	97.26
TCP Vegas	3	0.11	0.04	0.06	93.19	98.26	109.88	40.48	62.18	50.13
Verus	3	0.11	0.03	0.05	139.61	88.03	95.55	85.60	64.08	76.91
Copa	3	0.07	0.07	0.08	98.19	94.89	99.67	67.67	71.34	71.74
FillP	3	0.07	0.08	0.07	251.01	91.35	81.28	92.68	89.49	92.13
Indigo-1-32	3	0.10	0.08	0.06	113.24	146.15	116.44	85.60	93.74	94.76
Vivace-latency	3	0.09	0.05	0.04	67.69	38.43	35.99	92.64	95.73	96.69
Vivace-loss	3	0.09	0.05	0.04	89.73	38.40	34.65	92.49	95.90	96.76
Vivace-LTE	3	0.09	0.05	0.04	65.84	38.74	36.17	92.59	95.76	96.77

Run 1: Statistics of TCP BBR

Start at: 2018-04-03 02:04:58
End at: 2018-04-03 02:05:28
Local clock offset: -0.079 ms
Remote clock offset: -5.852 ms

Below is generated by plot.py at 2018-04-03 04:22:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 135.504 ms
Loss rate: 47.02%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 114.932 ms
Loss rate: 38.20%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 141.795 ms
Loss rate: 56.35%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 182.024 ms
Loss rate: 61.71%

Run 1: Report of TCP BBR — Data Link

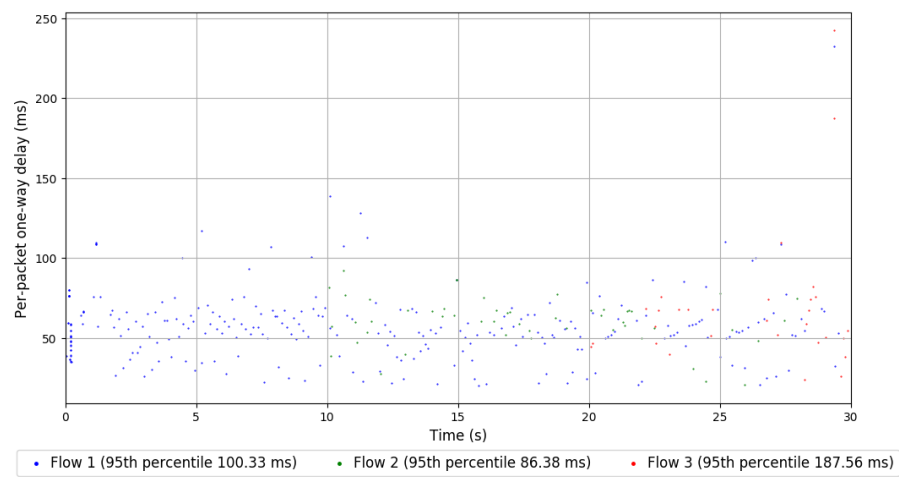
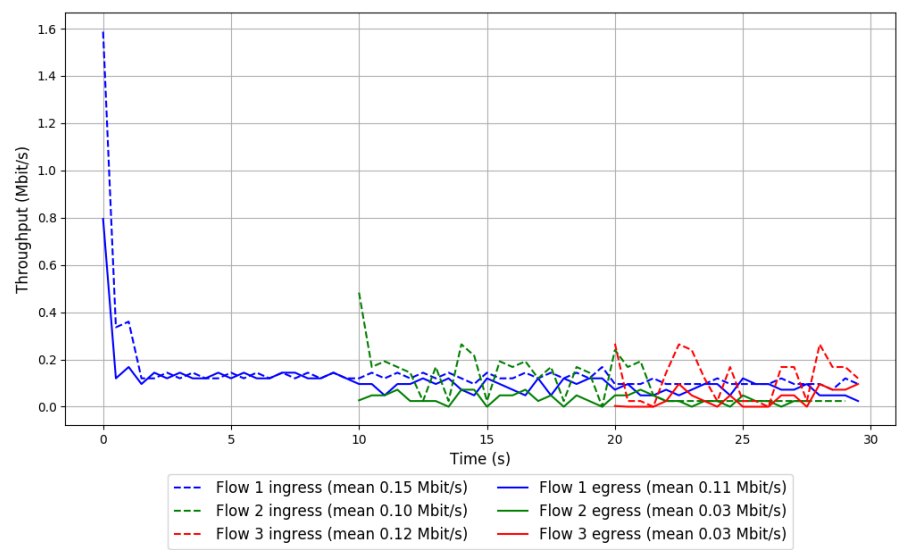


Run 2: Statistics of TCP BBR

Start at: 2018-04-03 02:28:39
End at: 2018-04-03 02:29:09
Local clock offset: -0.097 ms
Remote clock offset: -5.016 ms

Below is generated by plot.py at 2018-04-03 04:22:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 100.087 ms
Loss rate: 46.12%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 100.328 ms
Loss rate: 28.22%
-- Flow 2:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 86.380 ms
Loss rate: 70.95%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 187.560 ms
Loss rate: 71.91%

Run 2: Report of TCP BBR — Data Link

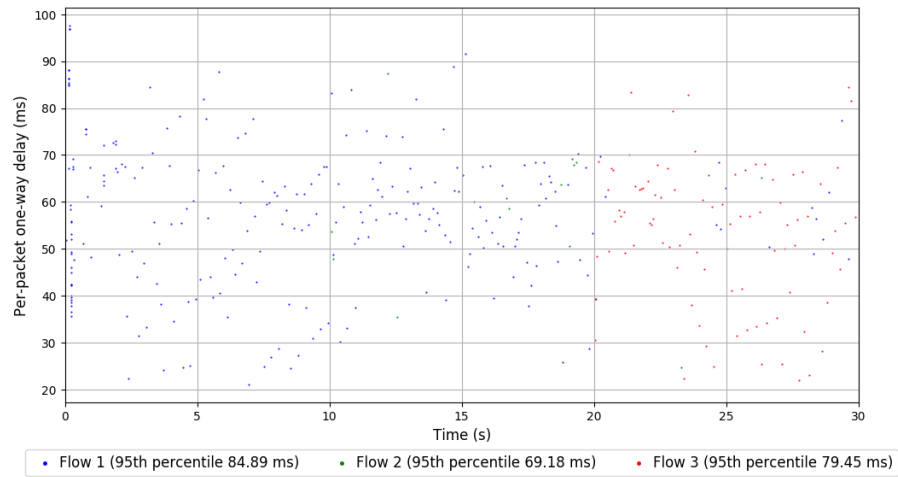
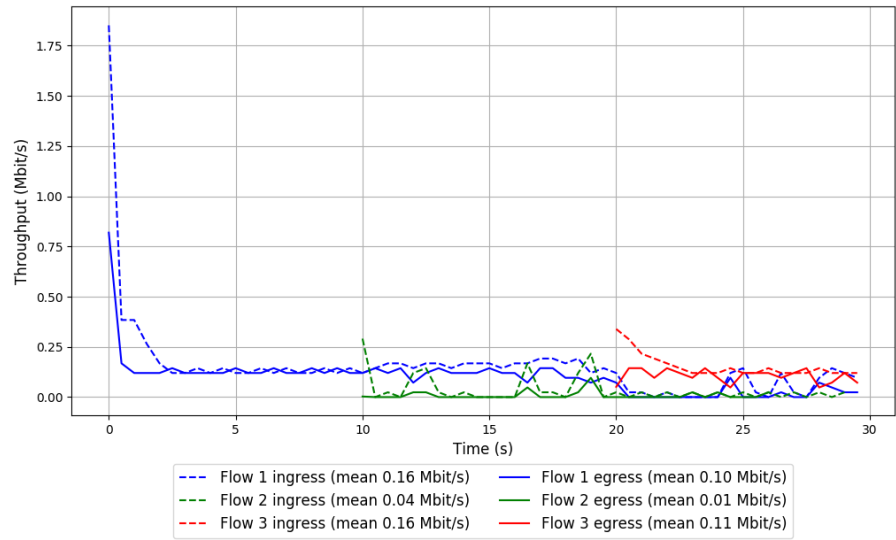


Run 3: Statistics of TCP BBR

Start at: 2018-04-03 02:52:19
End at: 2018-04-03 02:52:49
Local clock offset: 0.031 ms
Remote clock offset: -5.177 ms

Below is generated by plot.py at 2018-04-03 04:22:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 83.110 ms
Loss rate: 39.45%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 84.889 ms
Loss rate: 35.91%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 69.177 ms
Loss rate: 79.50%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 79.448 ms
Loss rate: 31.75%

Run 3: Report of TCP BBR — Data Link

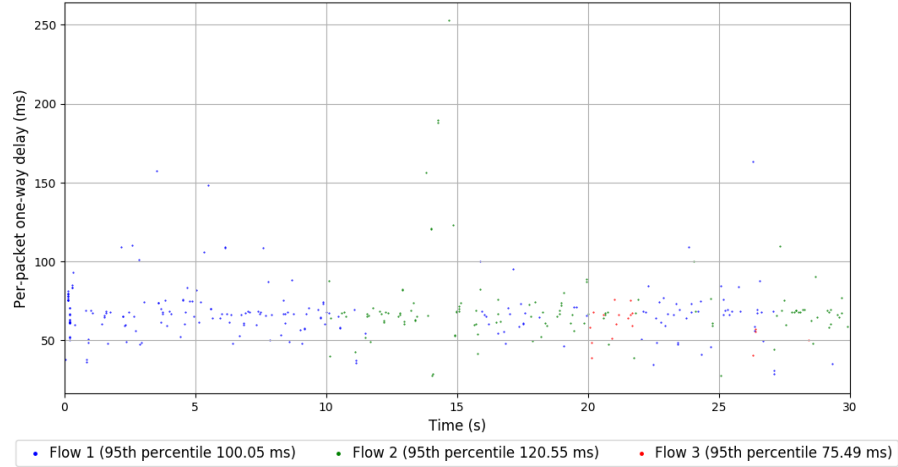
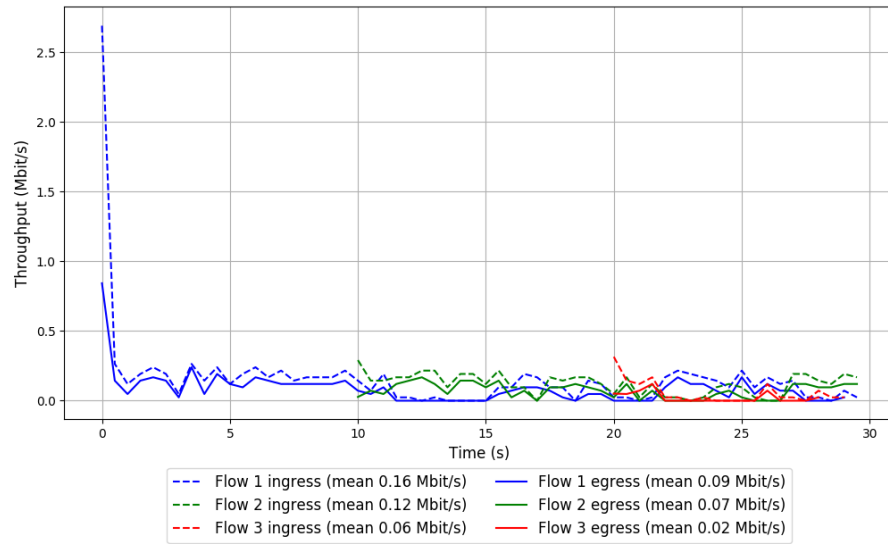


Run 1: Statistics of TCP Cubic

Start at: 2018-04-03 02:02:19
End at: 2018-04-03 02:02:49
Local clock offset: -0.139 ms
Remote clock offset: -6.207 ms

Below is generated by plot.py at 2018-04-03 04:22:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 101.279 ms
Loss rate: 46.52%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 100.046 ms
Loss rate: 47.12%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 120.547 ms
Loss rate: 41.15%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 75.494 ms
Loss rate: 65.04%

Run 1: Report of TCP Cubic — Data Link

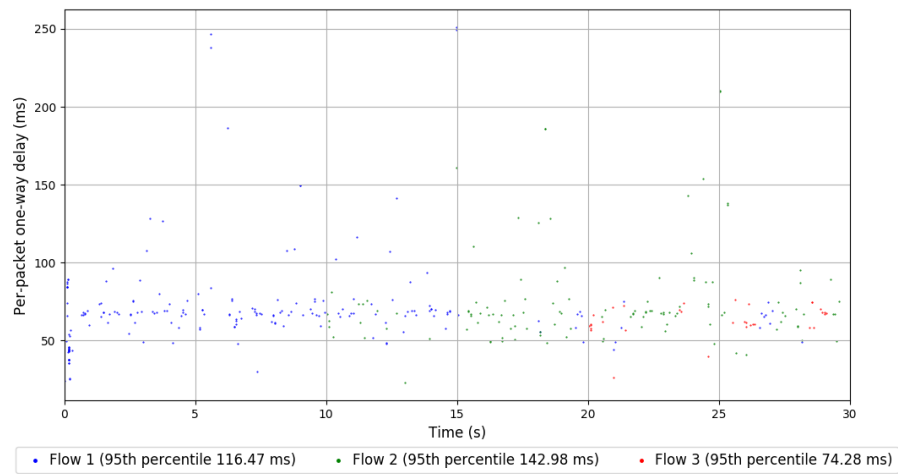
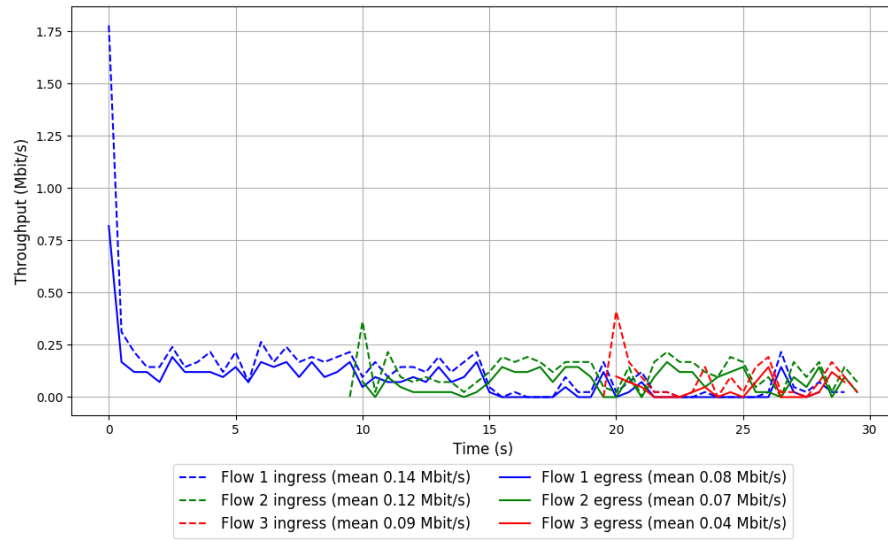


Run 2: Statistics of TCP Cubic

Start at: 2018-04-03 02:26:01
End at: 2018-04-03 02:26:31
Local clock offset: -0.228 ms
Remote clock offset: -5.143 ms

Below is generated by plot.py at 2018-04-03 04:22:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 127.995 ms
Loss rate: 43.07%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 116.472 ms
Loss rate: 40.77%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 142.976 ms
Loss rate: 41.64%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 74.282 ms
Loss rate: 57.44%

Run 2: Report of TCP Cubic — Data Link

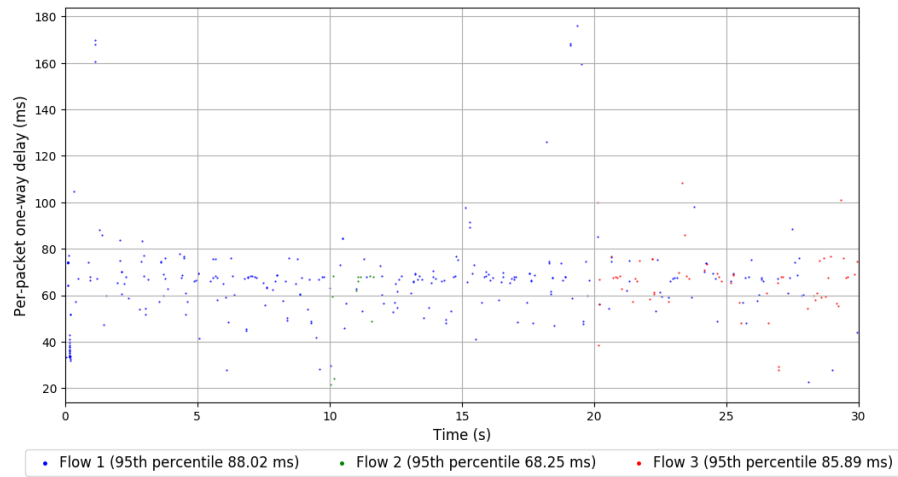
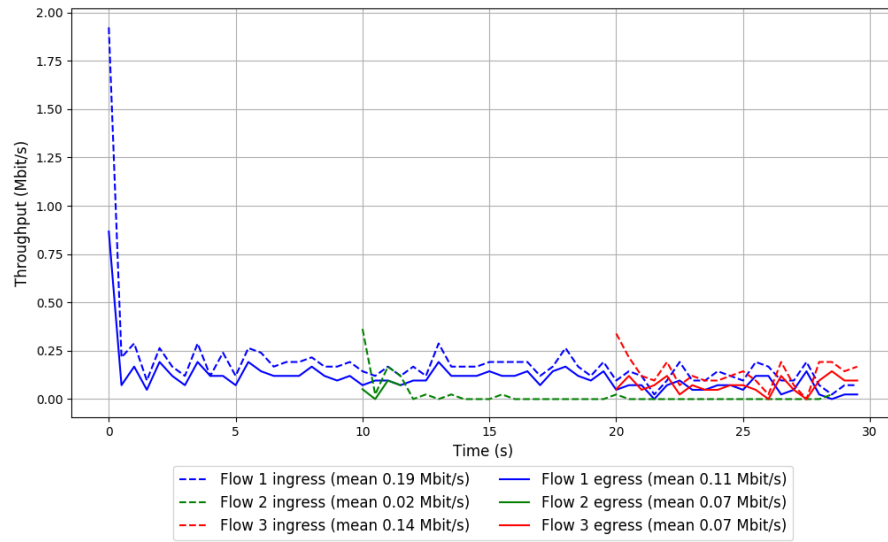


Run 3: Statistics of TCP Cubic

Start at: 2018-04-03 02:49:41
End at: 2018-04-03 02:50:11
Local clock offset: -0.064 ms
Remote clock offset: -5.082 ms

Below is generated by plot.py at 2018-04-03 04:22:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 85.886 ms
Loss rate: 43.23%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 88.021 ms
Loss rate: 39.99%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 68.251 ms
Loss rate: 72.46%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 85.886 ms
Loss rate: 48.16%

Run 3: Report of TCP Cubic — Data Link

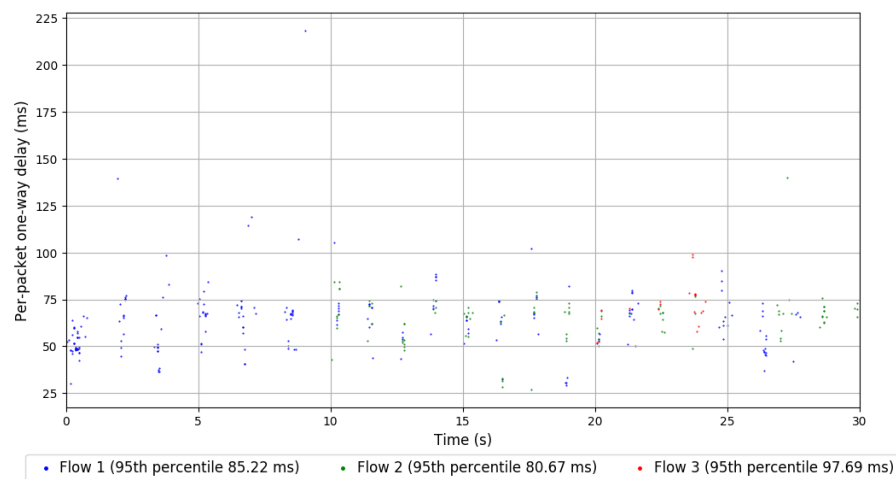
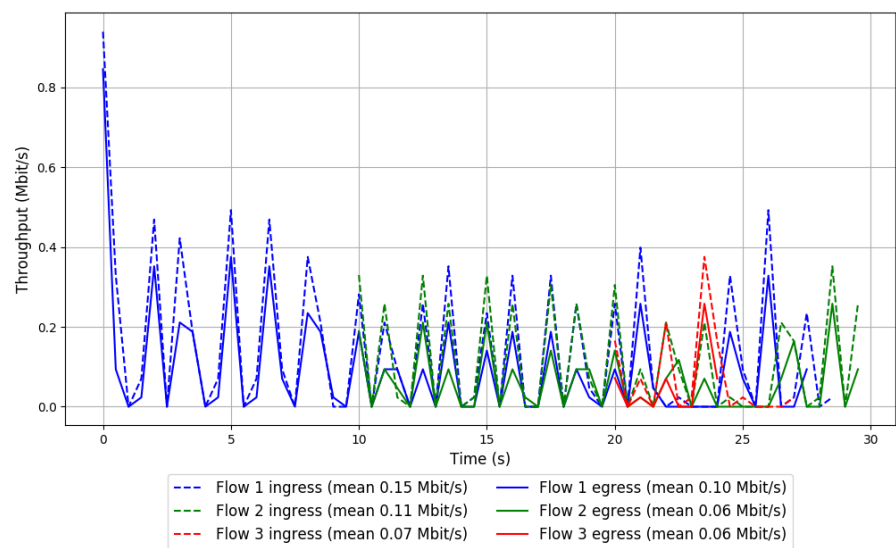


Run 1: Statistics of LEDBAT

Start at: 2018-04-03 02:10:14
End at: 2018-04-03 02:10:44
Local clock offset: -0.11 ms
Remote clock offset: -5.574 ms

Below is generated by plot.py at 2018-04-03 04:22:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 84.310 ms
Loss rate: 41.43%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 85.224 ms
Loss rate: 36.81%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 80.669 ms
Loss rate: 47.58%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 97.692 ms
Loss rate: 53.27%

Run 1: Report of LEDBAT — Data Link

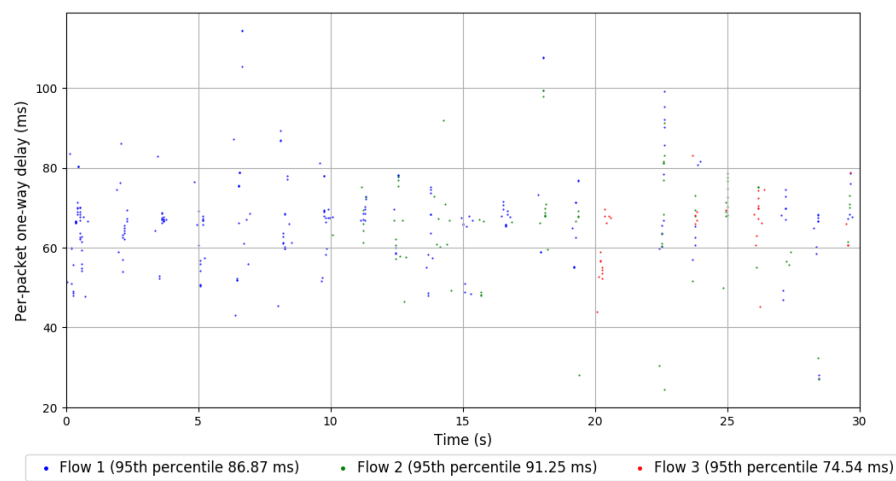
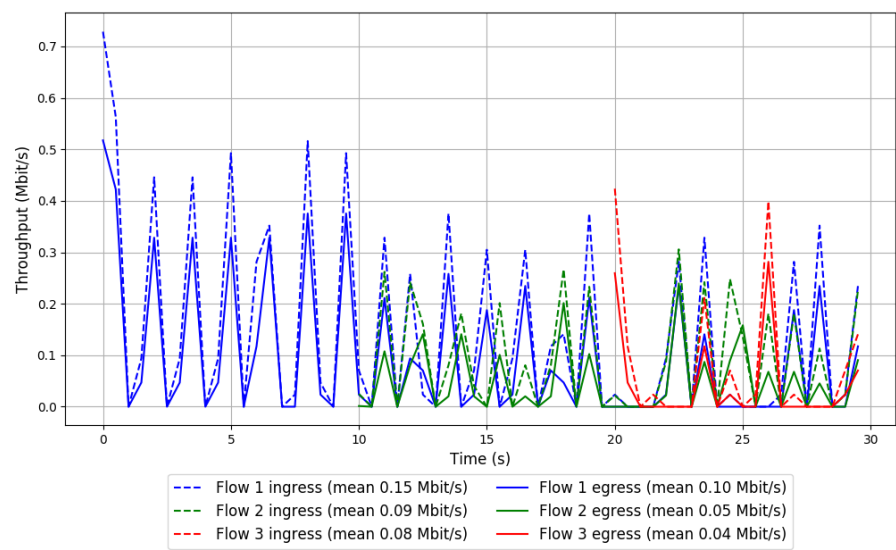


Run 2: Statistics of LEDBAT

Start at: 2018-04-03 02:33:54
End at: 2018-04-03 02:34:24
Local clock offset: -0.078 ms
Remote clock offset: -5.034 ms

Below is generated by plot.py at 2018-04-03 04:22:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.114 ms
Loss rate: 40.19%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 86.867 ms
Loss rate: 35.46%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.249 ms
Loss rate: 49.58%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 74.541 ms
Loss rate: 45.27%

Run 2: Report of LEDBAT — Data Link

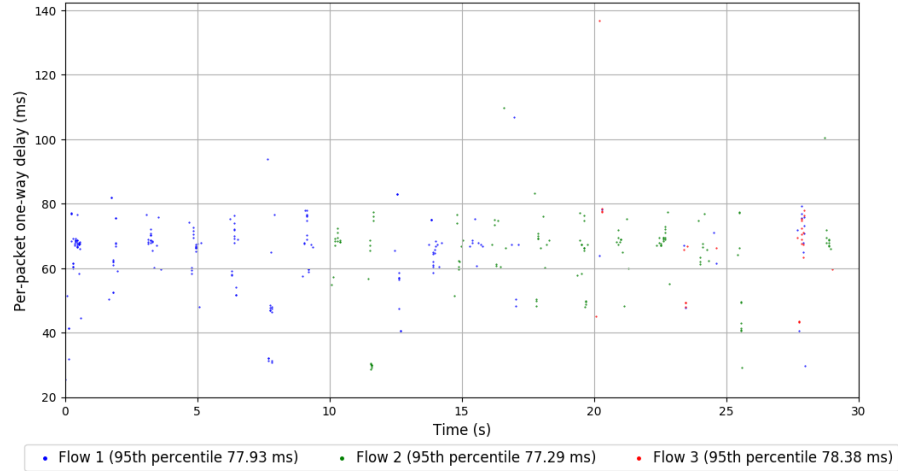
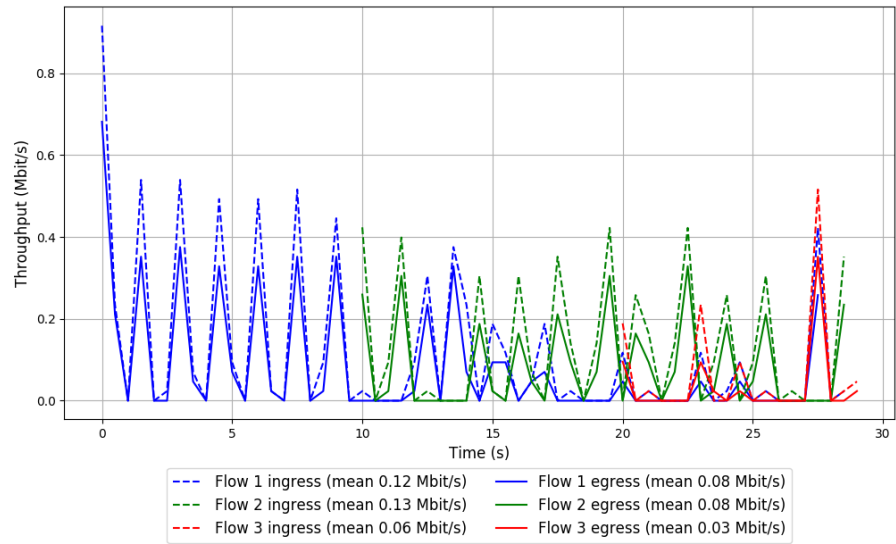


Run 3: Statistics of LEDBAT

Start at: 2018-04-03 02:57:36
End at: 2018-04-03 02:58:06
Local clock offset: -0.147 ms
Remote clock offset: -5.138 ms

Below is generated by plot.py at 2018-04-03 04:22:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 77.444 ms
Loss rate: 36.60%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 77.929 ms
Loss rate: 34.91%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 77.287 ms
Loss rate: 36.58%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 78.384 ms
Loss rate: 46.88%

Run 3: Report of LEDBAT — Data Link

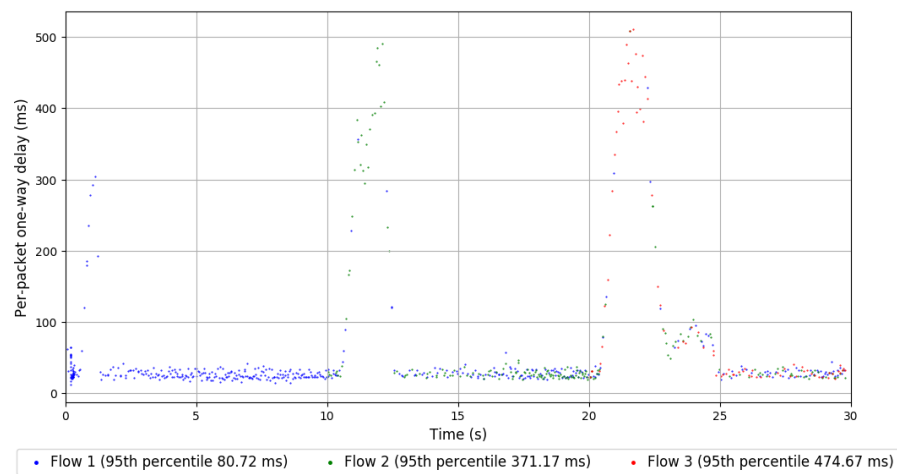
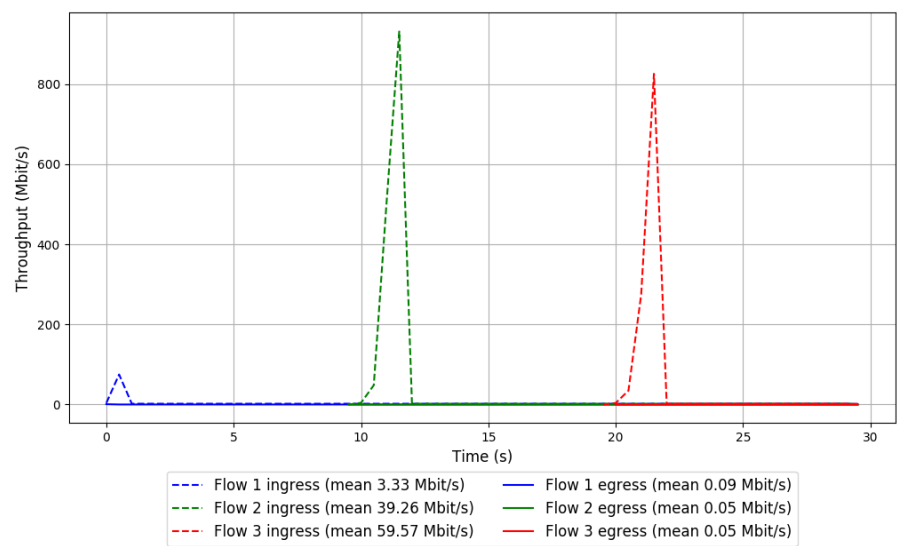


Run 1: Statistics of PCC

Start at: 2018-04-03 02:03:38
End at: 2018-04-03 02:04:08
Local clock offset: -0.105 ms
Remote clock offset: -6.105 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 321.376 ms
Loss rate: 99.72%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 80.722 ms
Loss rate: 97.43%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 371.165 ms
Loss rate: 99.86%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 474.674 ms
Loss rate: 99.91%

Run 1: Report of PCC — Data Link

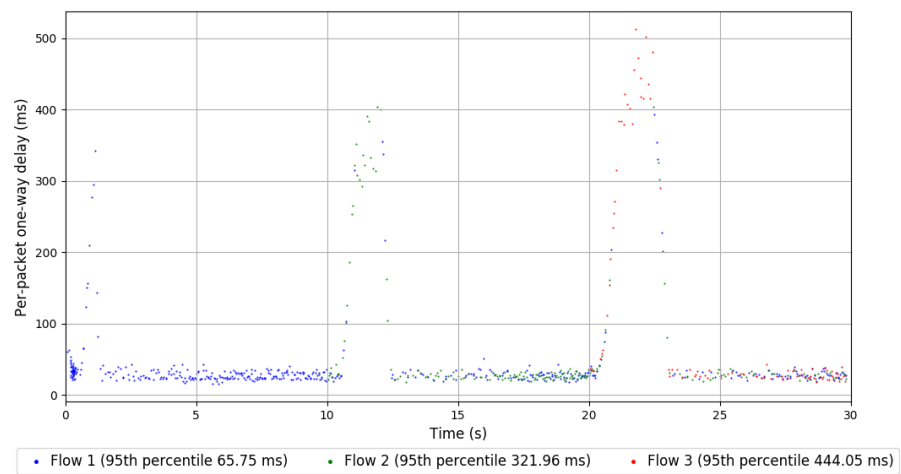
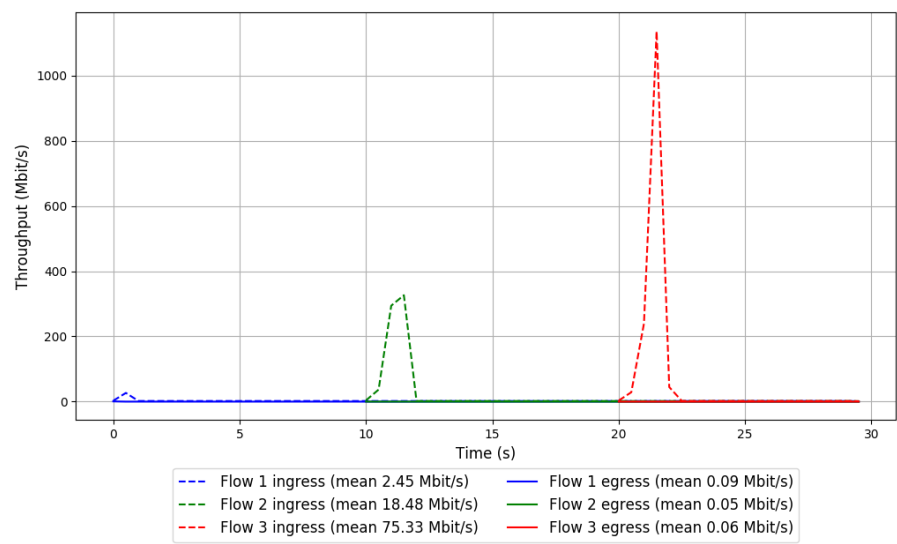


Run 2: Statistics of PCC

Start at: 2018-04-03 02:27:19
End at: 2018-04-03 02:27:49
Local clock offset: -0.252 ms
Remote clock offset: -5.111 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 314.392 ms
Loss rate: 99.65%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 65.748 ms
Loss rate: 96.52%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 321.960 ms
Loss rate: 99.72%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 444.051 ms
Loss rate: 99.92%

Run 2: Report of PCC — Data Link

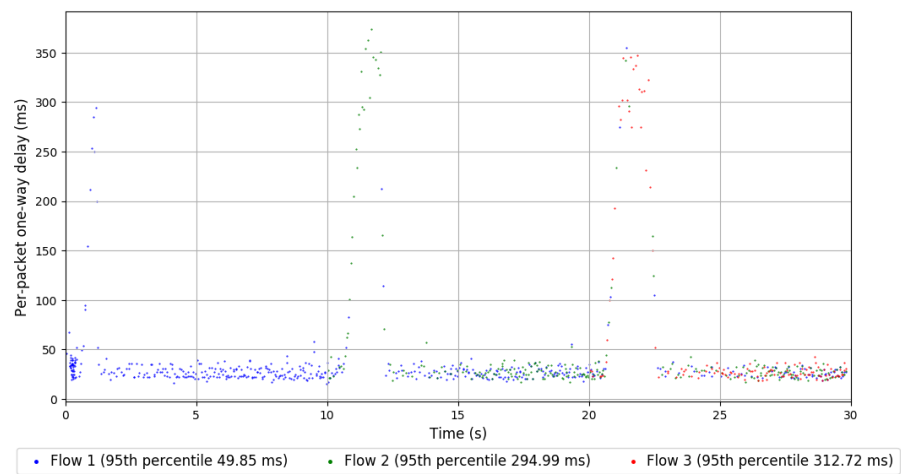
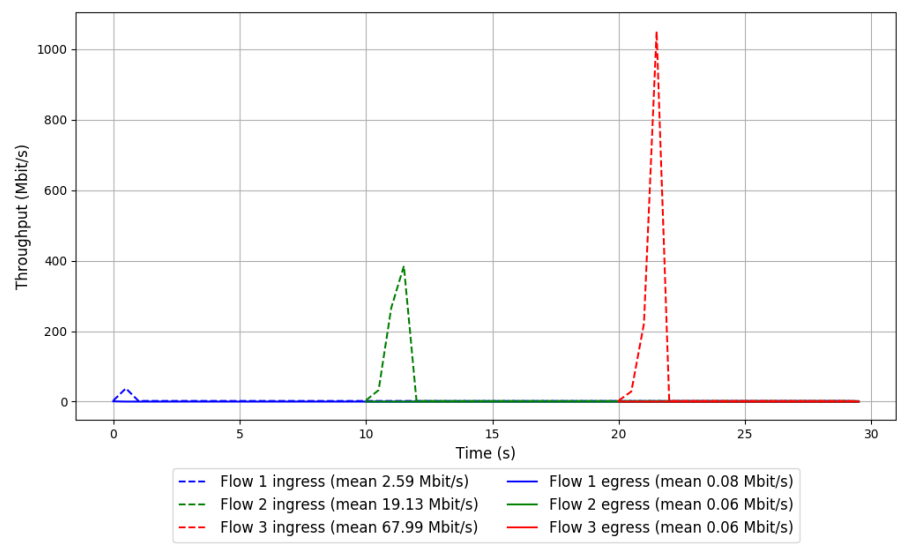


Run 3: Statistics of PCC

Start at: 2018-04-03 02:51:00
End at: 2018-04-03 02:51:30
Local clock offset: 0.011 ms
Remote clock offset: -5.149 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 212.246 ms
Loss rate: 99.63%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 49.847 ms
Loss rate: 96.80%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 294.994 ms
Loss rate: 99.71%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 312.721 ms
Loss rate: 99.91%

Run 3: Report of PCC — Data Link

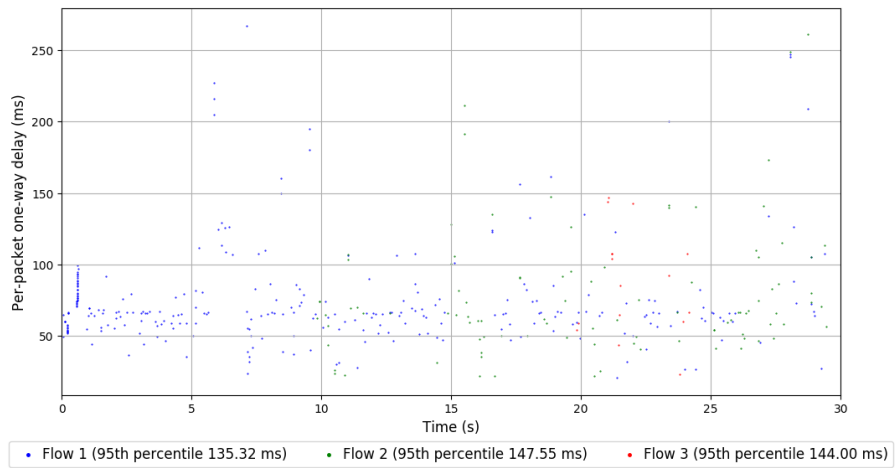
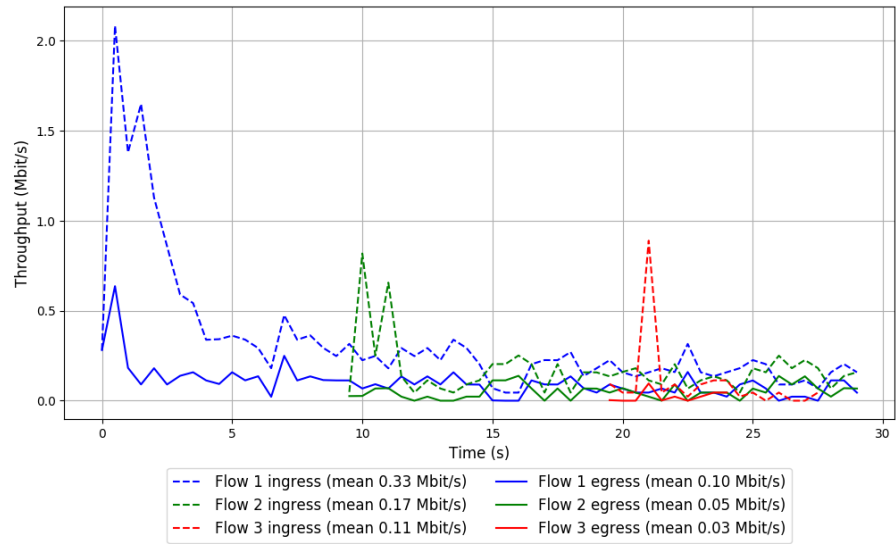


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-03 02:01:00
End at: 2018-04-03 02:01:31
Local clock offset: -0.205 ms
Remote clock offset: -6.397 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 146.949 ms
Loss rate: 70.55%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 135.320 ms
Loss rate: 69.38%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 147.546 ms
Loss rate: 69.99%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 144.003 ms
Loss rate: 86.15%

Run 1: Report of QUIC Cubic — Data Link

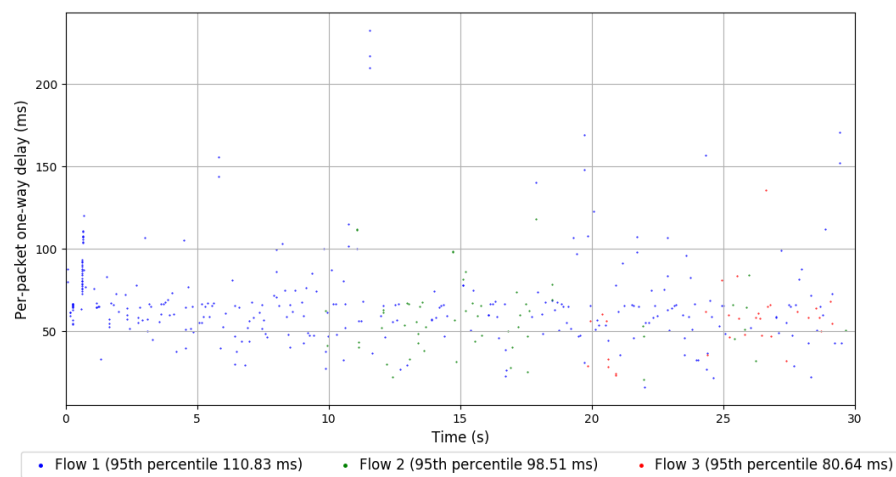
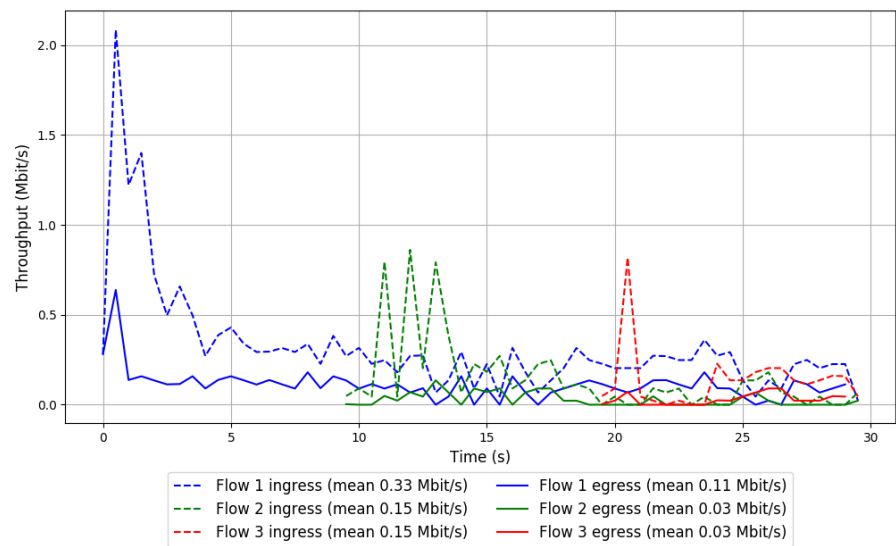


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-03 02:24:42
End at: 2018-04-03 02:25:12
Local clock offset: -0.331 ms
Remote clock offset: -5.077 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 110.087 ms
Loss rate: 70.69%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 110.827 ms
Loss rate: 66.21%
-- Flow 2:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 98.512 ms
Loss rate: 81.04%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 80.643 ms
Loss rate: 79.23%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-03 02:48:22

End at: 2018-04-03 02:48:52

Local clock offset: 0.042 ms

Remote clock offset: -5.06 ms

Below is generated by plot.py at 2018-04-03 04:23:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 91.504 ms

Loss rate: 71.76%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 87.663 ms

Loss rate: 69.17%

-- Flow 2:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 97.597 ms

Loss rate: 71.53%

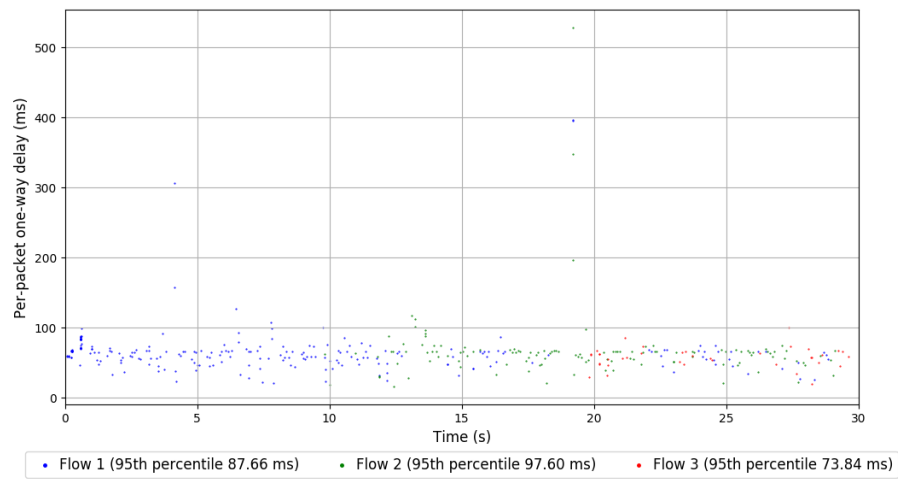
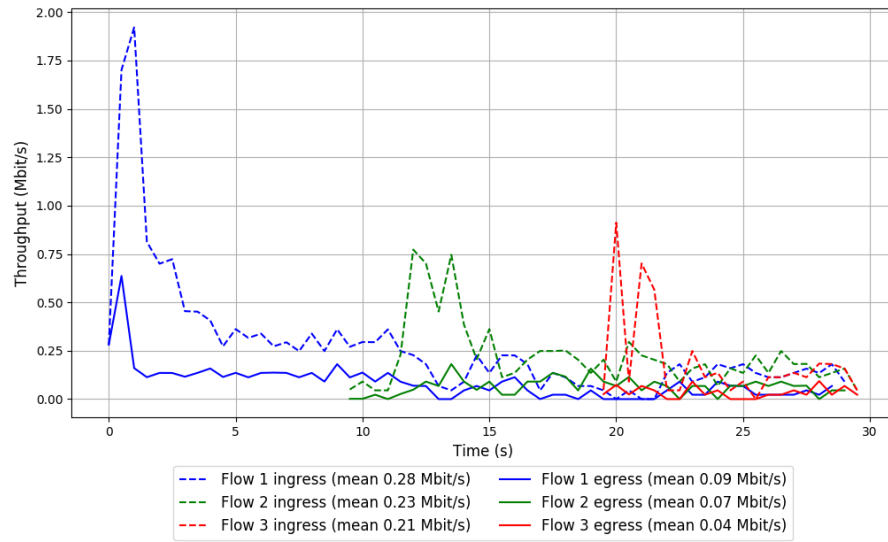
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 73.838 ms

Loss rate: 82.53%

Run 3: Report of QUIC Cubic — Data Link

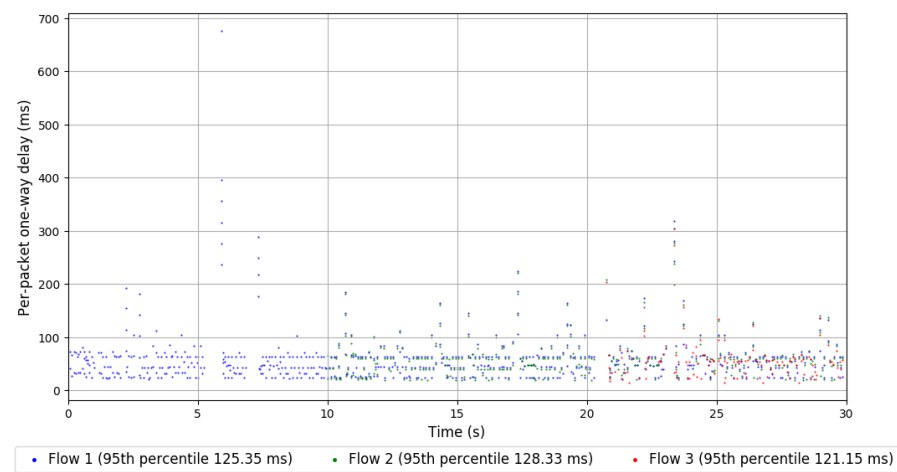
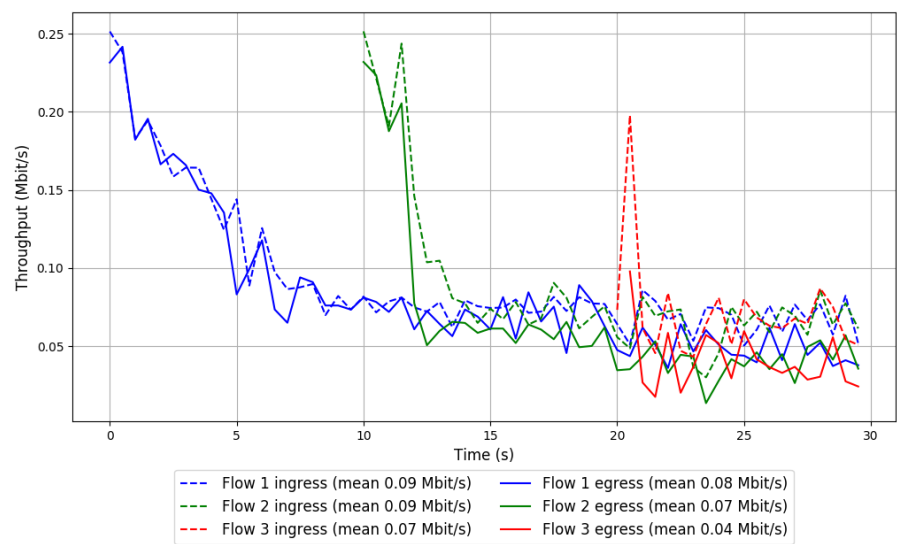


```
Run 1: Statistics of SCReAM

Start at: 2018-04-03 02:20:45
End at: 2018-04-03 02:21:15
Local clock offset: -0.238 ms
Remote clock offset: -5.238 ms

# Below is generated by plot.py at 2018-04-03 04:23:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 125.511 ms
Loss rate: 20.23%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 125.349 ms
Loss rate: 10.60%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 128.326 ms
Loss rate: 25.31%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 121.148 ms
Loss rate: 45.78%
```

Run 1: Report of SReAM — Data Link

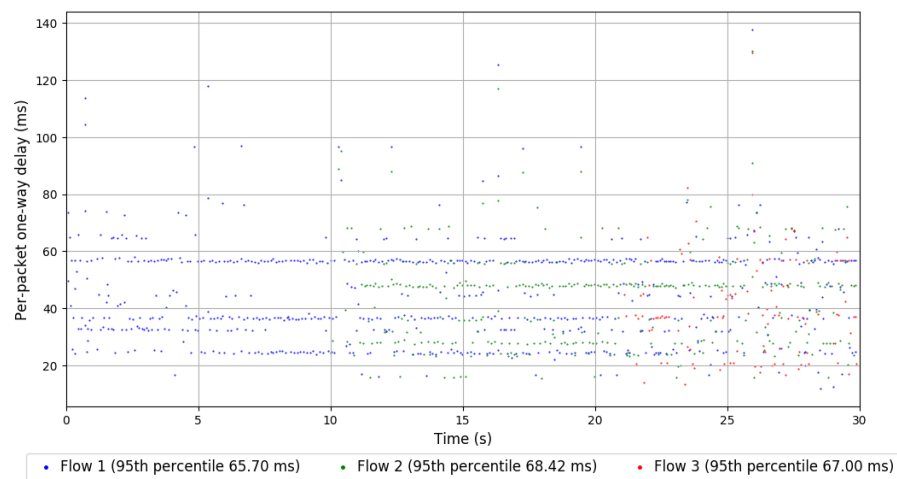
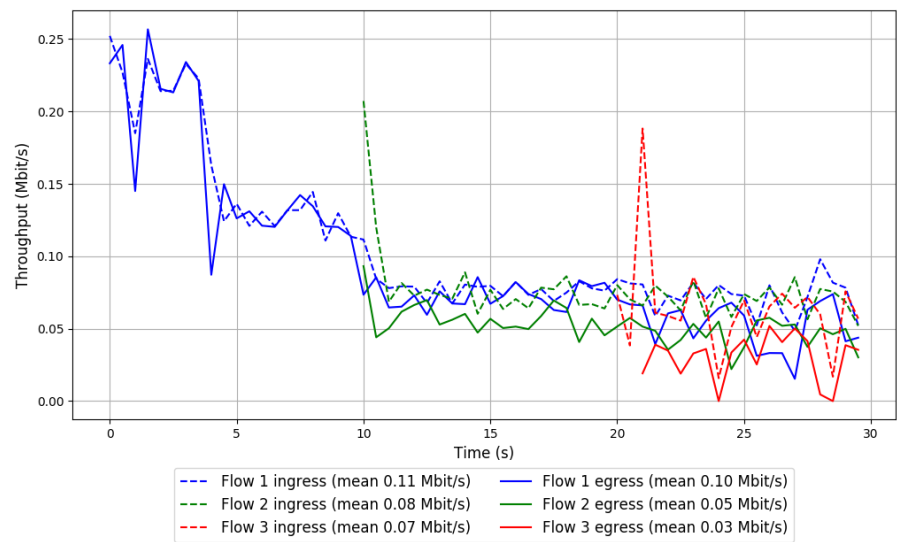


Run 2: Statistics of SCReAM

Start at: 2018-04-03 02:44:25
End at: 2018-04-03 02:44:55
Local clock offset: 0.056 ms
Remote clock offset: -5.161 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 68.082 ms
Loss rate: 21.58%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 65.699 ms
Loss rate: 9.31%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.420 ms
Loss rate: 31.82%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 66.995 ms
Loss rate: 57.89%

Run 2: Report of SReAM — Data Link

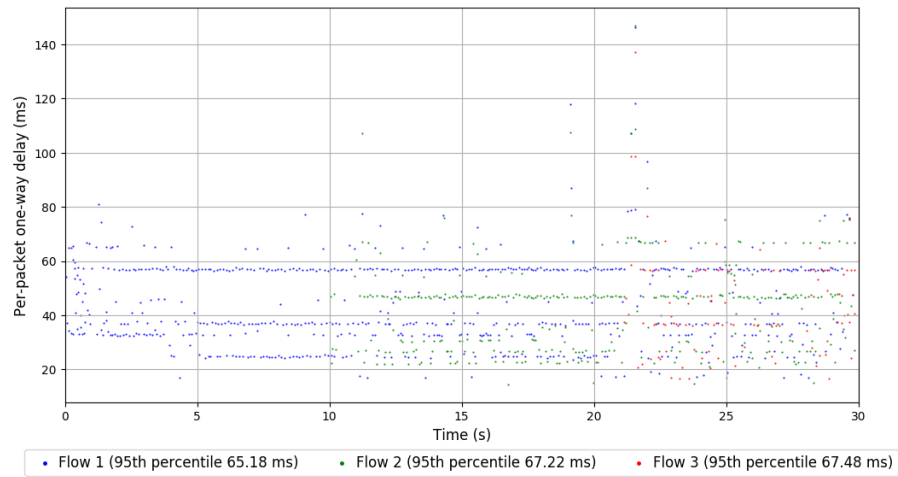
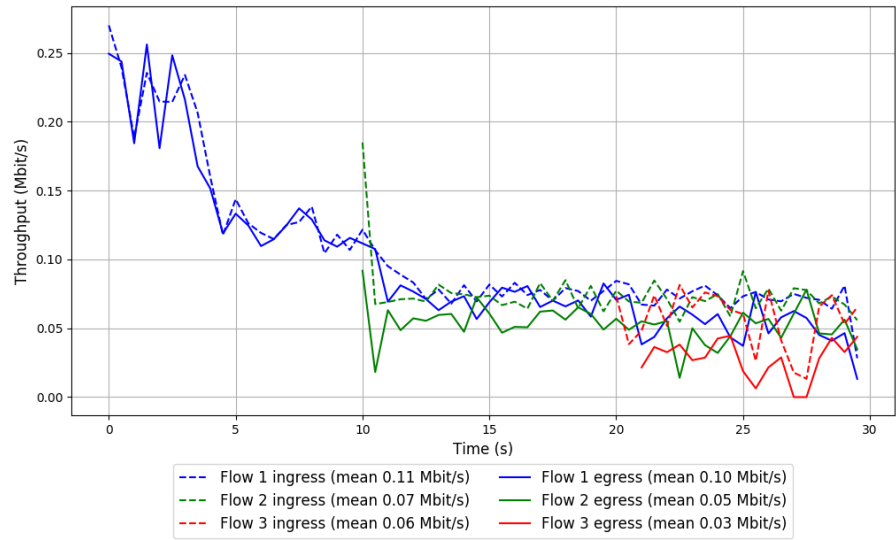


Run 3: Statistics of SCReAM

Start at: 2018-04-03 03:08:07
End at: 2018-04-03 03:08:37
Local clock offset: 0.221 ms
Remote clock offset: -5.085 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 66.866 ms
Loss rate: 19.88%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 65.179 ms
Loss rate: 9.15%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.218 ms
Loss rate: 28.72%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 67.476 ms
Loss rate: 56.60%

Run 3: Report of SReAM — Data Link

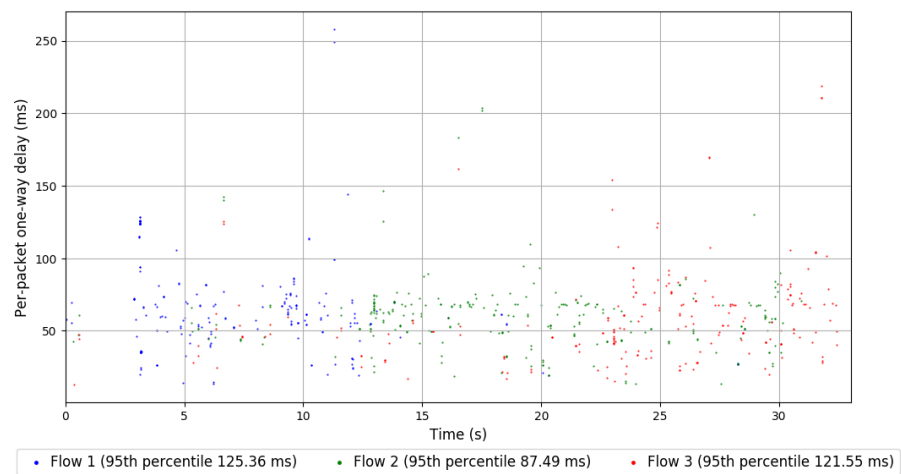
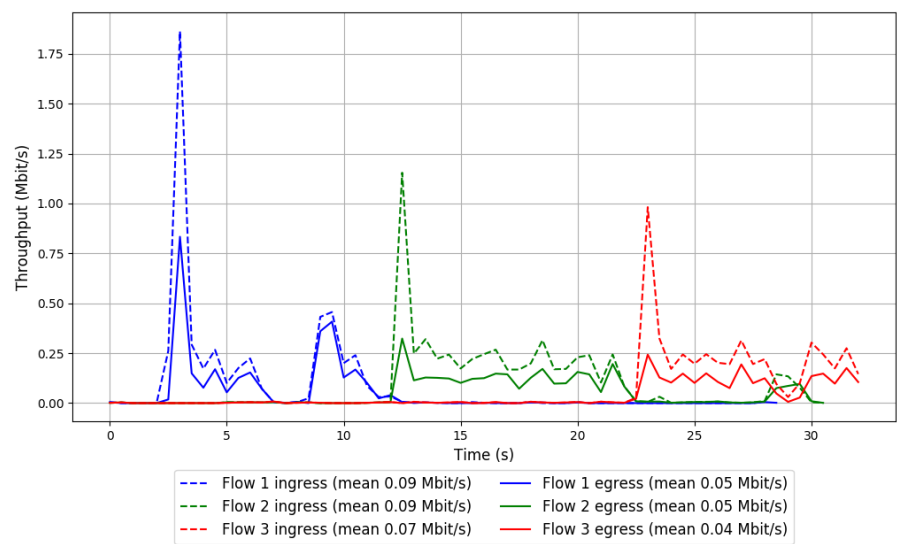


Run 1: Statistics of WebRTC media

Start at: 2018-04-03 02:18:06
End at: 2018-04-03 02:18:36
Local clock offset: -0.098 ms
Remote clock offset: -5.319 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 123.613 ms
Loss rate: 46.34%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 125.356 ms
Loss rate: 41.28%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.494 ms
Loss rate: 46.66%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 121.547 ms
Loss rate: 51.21%

Run 1: Report of WebRTC media — Data Link

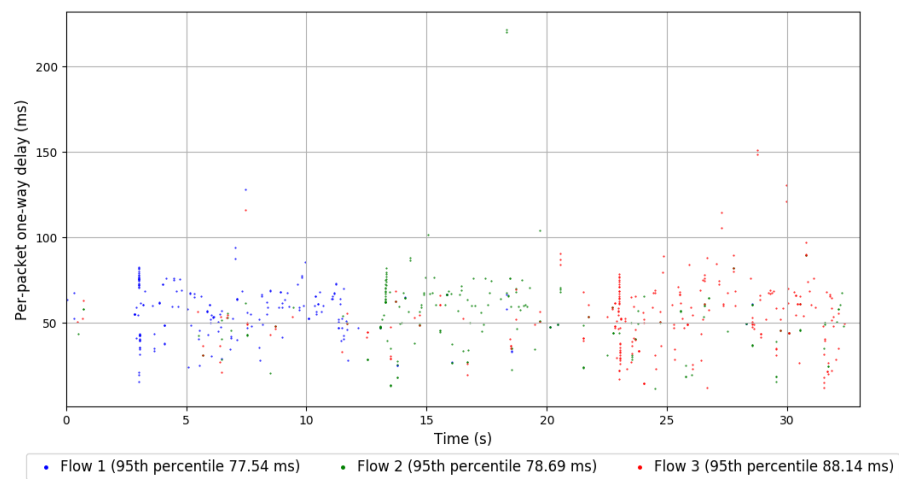
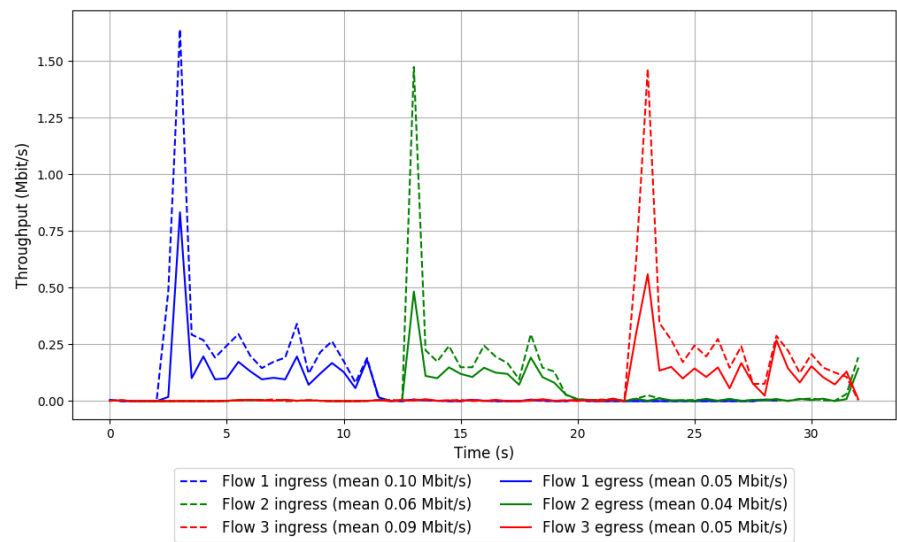


Run 2: Statistics of WebRTC media

Start at: 2018-04-03 02:41:47
End at: 2018-04-03 02:42:17
Local clock offset: -0.033 ms
Remote clock offset: -5.164 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 81.801 ms
Loss rate: 45.76%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 77.544 ms
Loss rate: 47.41%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 78.692 ms
Loss rate: 45.36%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 88.136 ms
Loss rate: 44.38%

Run 2: Report of WebRTC media — Data Link

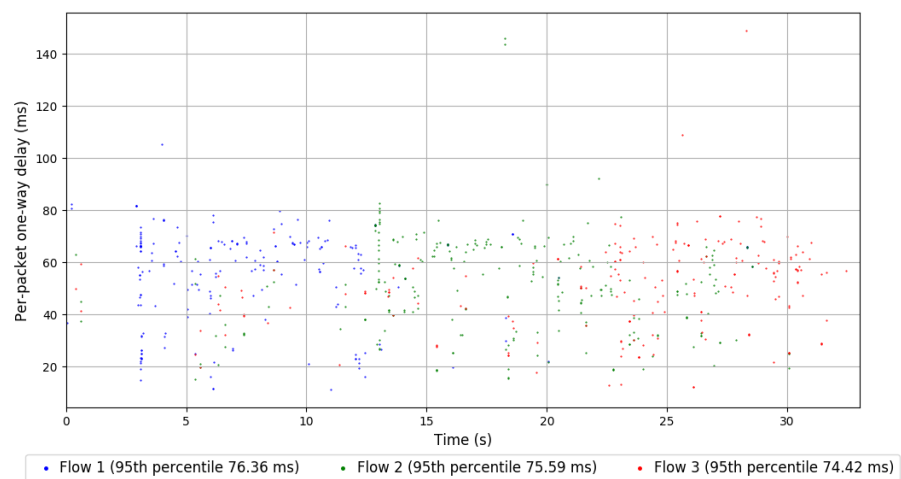
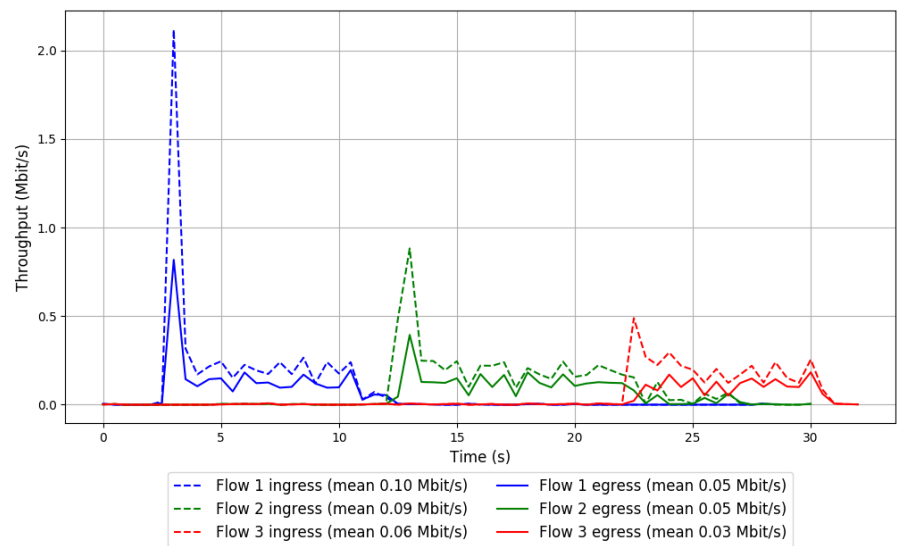


Run 3: Statistics of WebRTC media

Start at: 2018-04-03 03:05:29
End at: 2018-04-03 03:05:59
Local clock offset: 0.053 ms
Remote clock offset: -5.051 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 75.953 ms
Loss rate: 45.72%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 76.362 ms
Loss rate: 46.40%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 75.594 ms
Loss rate: 44.52%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 74.416 ms
Loss rate: 46.50%

Run 3: Report of WebRTC media — Data Link

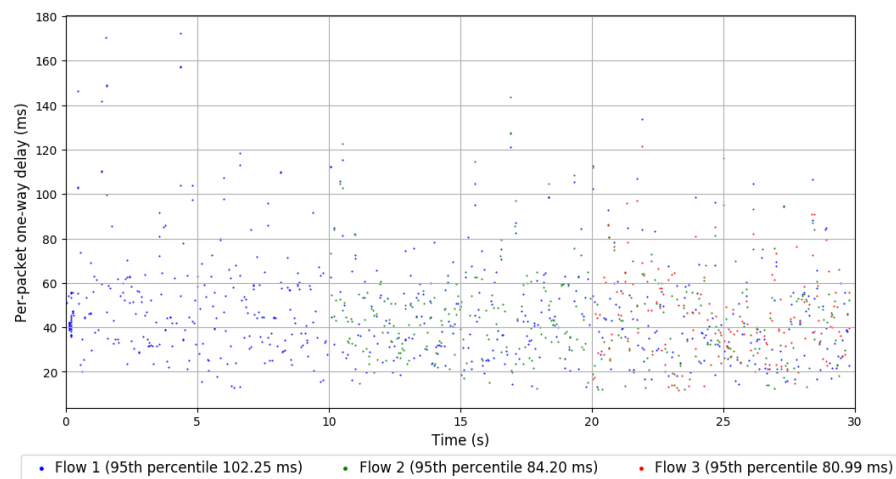
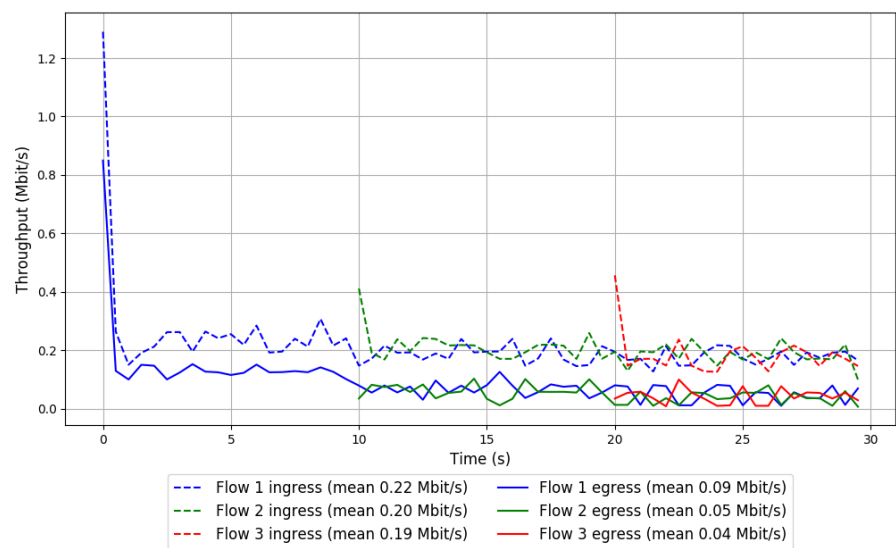


Run 1: Statistics of Sprout

Start at: 2018-04-03 02:22:04
End at: 2018-04-03 02:22:34
Local clock offset: -0.197 ms
Remote clock offset: -5.205 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 94.815 ms
Loss rate: 66.06%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 102.253 ms
Loss rate: 56.84%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.204 ms
Loss rate: 75.71%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 80.988 ms
Loss rate: 77.57%

Run 1: Report of Sprout — Data Link

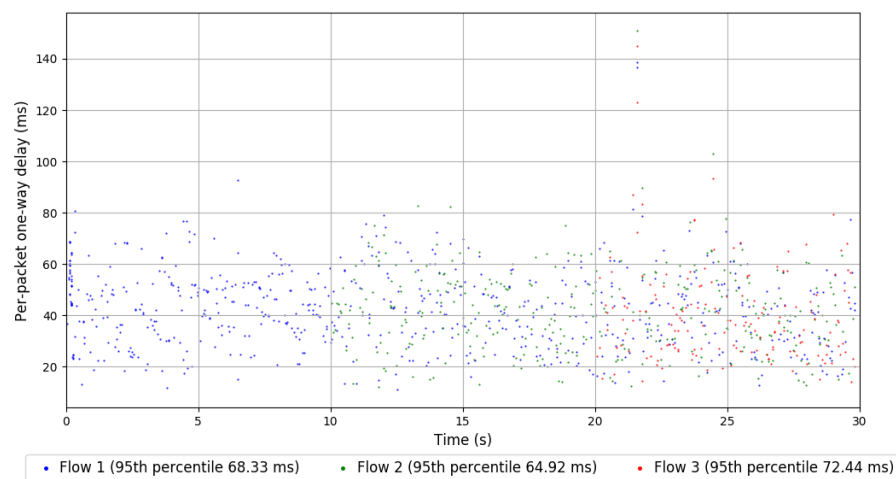
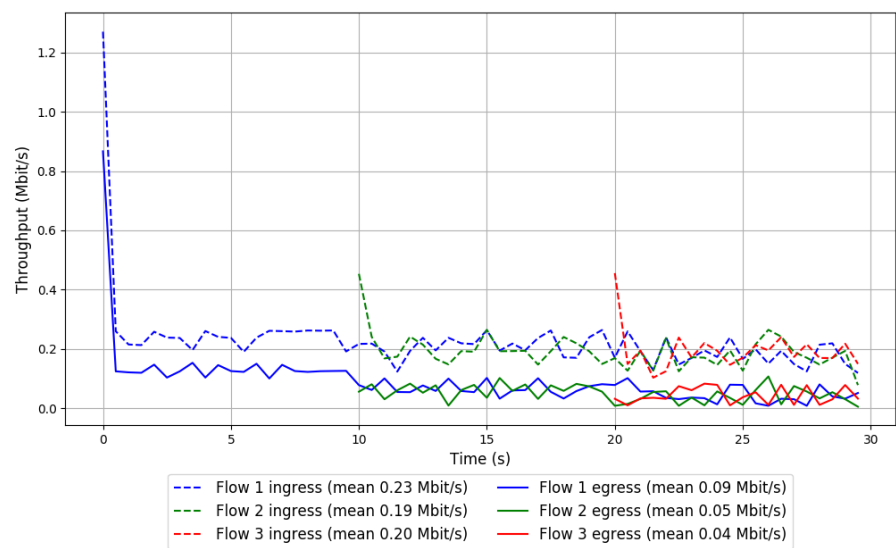


Run 2: Statistics of Sprout

Start at: 2018-04-03 02:45:44
End at: 2018-04-03 02:46:14
Local clock offset: 0.051 ms
Remote clock offset: -5.172 ms

```
# Below is generated by plot.py at 2018-04-03 04:23:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.975 ms
Loss rate: 66.77%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 68.330 ms
Loss rate: 59.63%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.925 ms
Loss rate: 73.89%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 72.444 ms
Loss rate: 77.85%
```

Run 2: Report of Sprout — Data Link

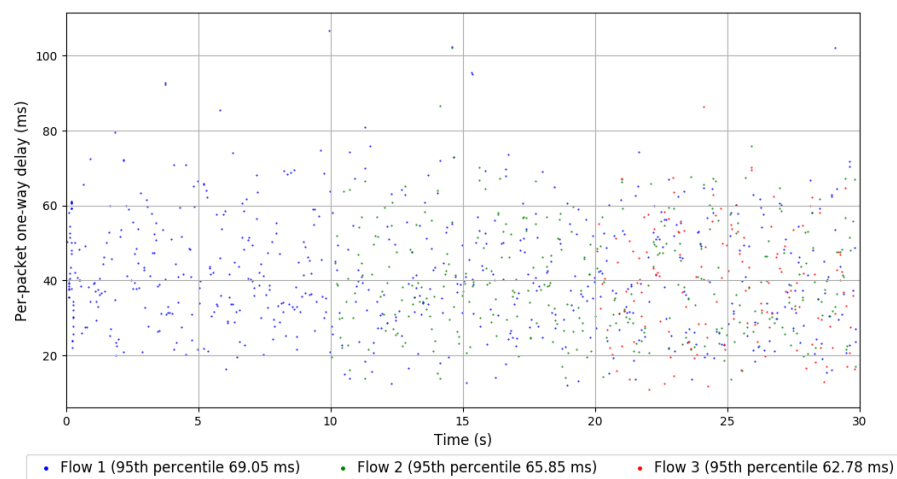
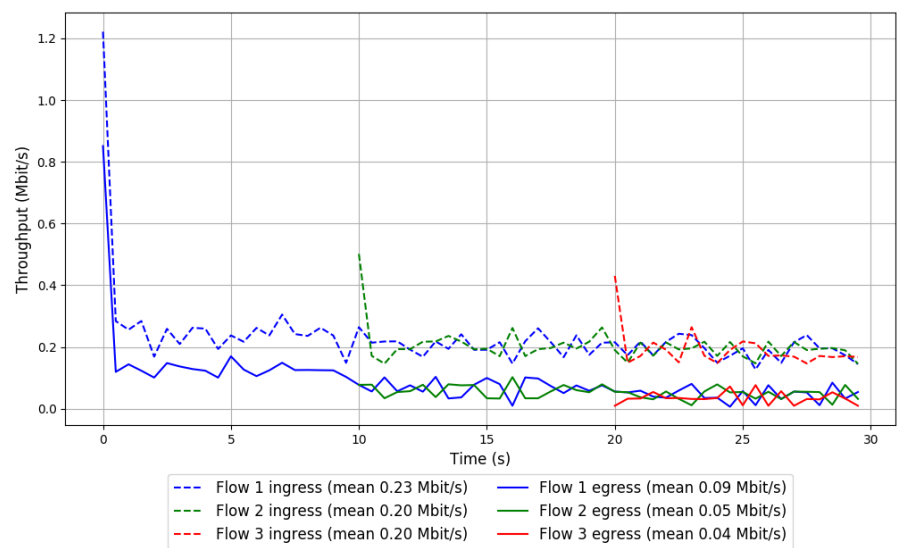


Run 3: Statistics of Sprout

Start at: 2018-04-03 03:09:26
End at: 2018-04-03 03:09:56
Local clock offset: 0.227 ms
Remote clock offset: -5.134 ms

```
# Below is generated by plot.py at 2018-04-03 04:23:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 66.917 ms
Loss rate: 67.42%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 69.050 ms
Loss rate: 59.53%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.847 ms
Loss rate: 73.83%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 62.779 ms
Loss rate: 82.14%
```

Run 3: Report of Sprout — Data Link

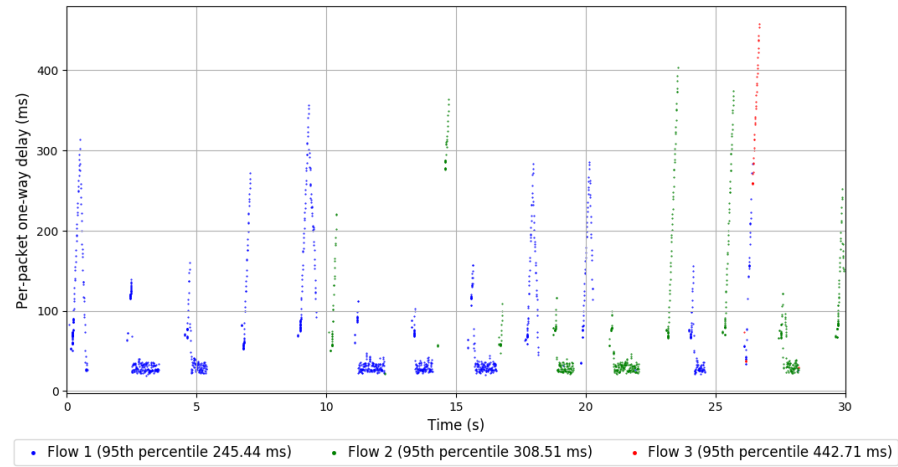
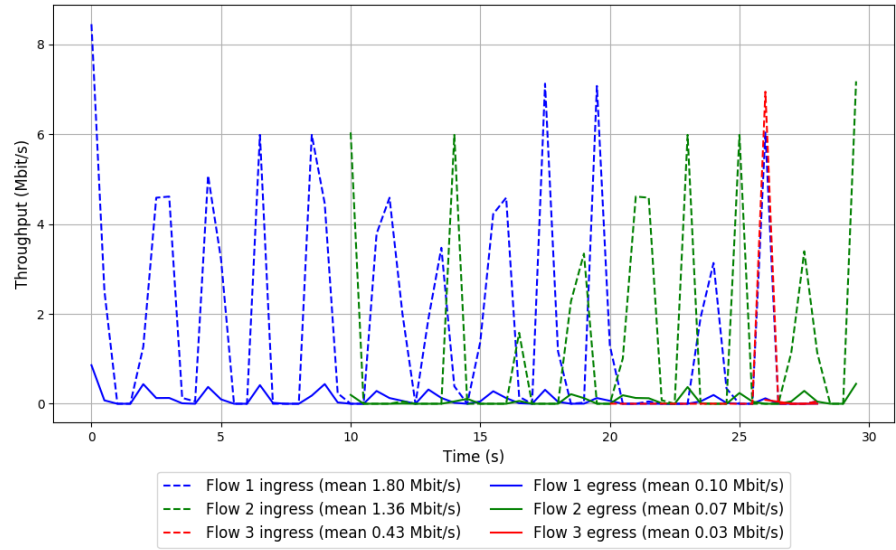


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-03 02:06:17
End at: 2018-04-03 02:06:47
Local clock offset: -0.048 ms
Remote clock offset: -5.798 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 285.349 ms
Loss rate: 94.84%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 245.438 ms
Loss rate: 94.53%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 308.512 ms
Loss rate: 95.00%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 442.710 ms
Loss rate: 98.10%

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

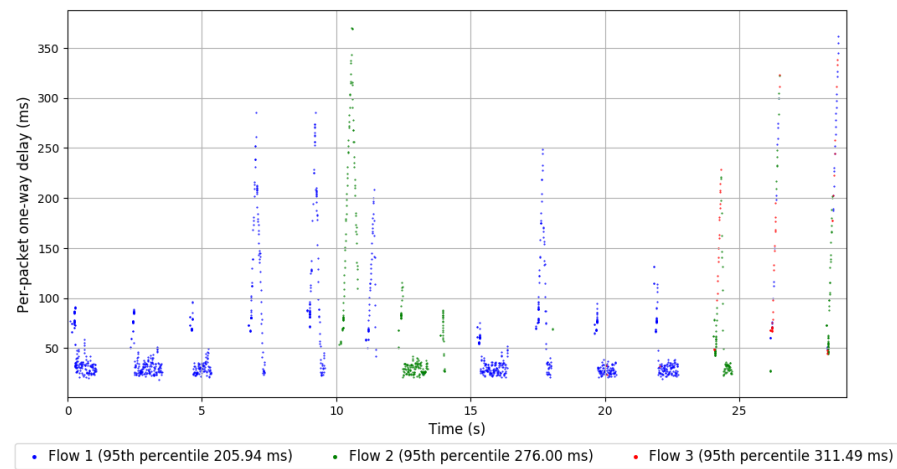
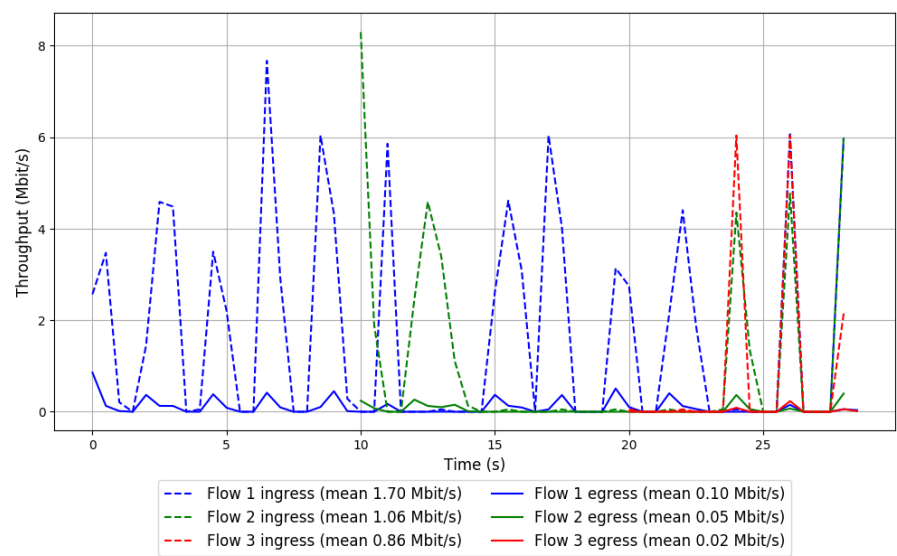


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-03 02:29:58
End at: 2018-04-03 02:30:28
Local clock offset: -0.159 ms
Remote clock offset: -4.972 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 228.578 ms
Loss rate: 94.60%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 205.936 ms
Loss rate: 93.98%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 275.997 ms
Loss rate: 95.15%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 311.489 ms
Loss rate: 97.23%

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

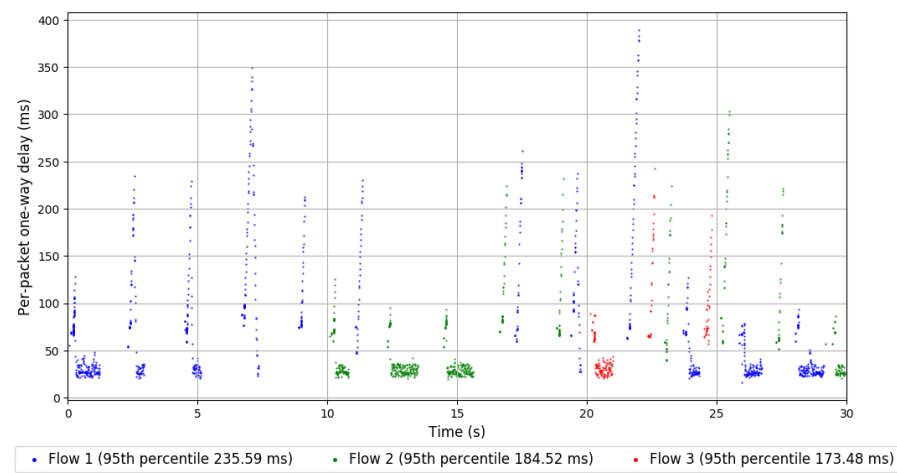
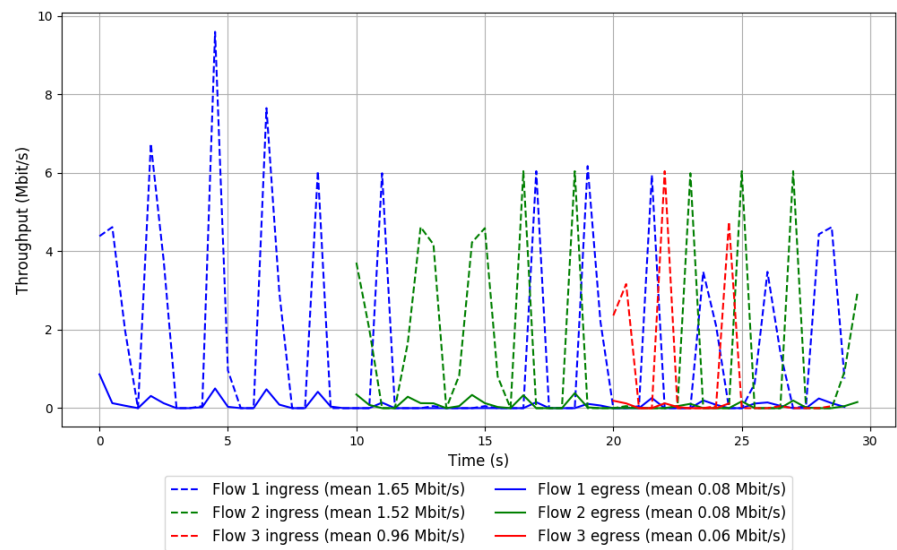


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-03 02:53:39
End at: 2018-04-03 02:54:09
Local clock offset: -0.017 ms
Remote clock offset: -5.106 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 214.986 ms
Loss rate: 95.16%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 235.594 ms
Loss rate: 94.99%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 184.517 ms
Loss rate: 95.06%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 173.483 ms
Loss rate: 96.46%

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

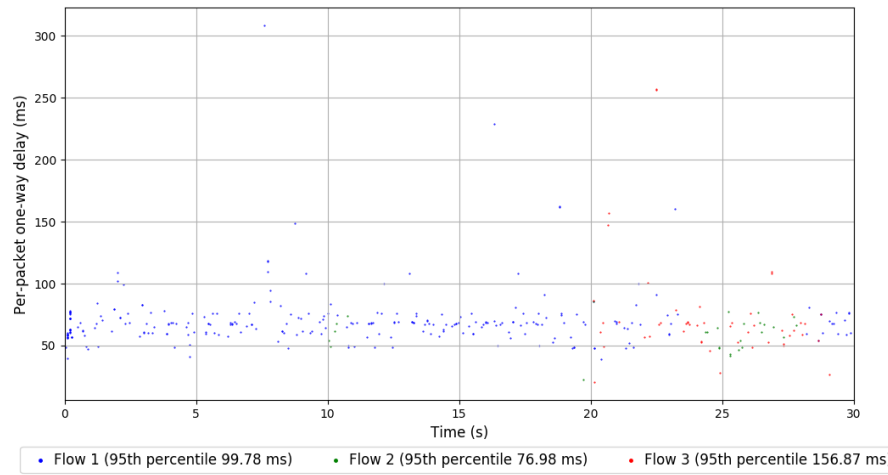
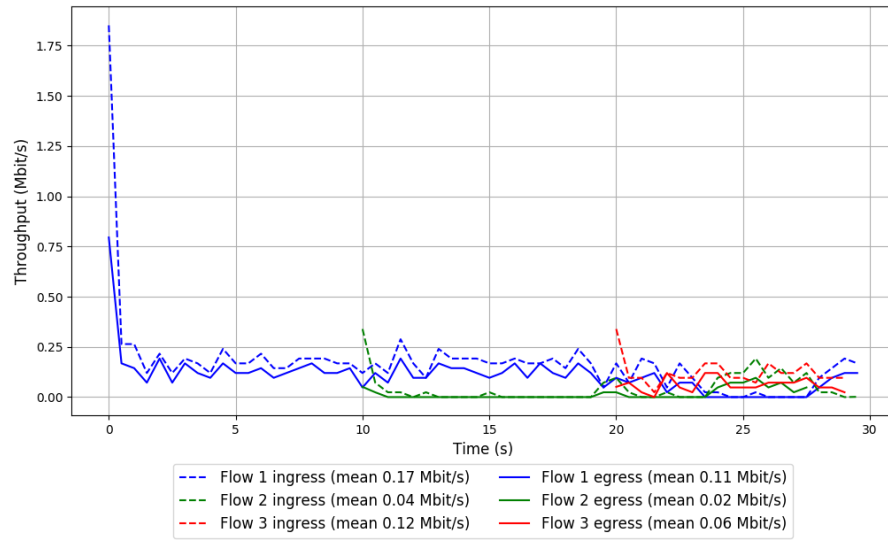


Run 1: Statistics of TCP Vegas

Start at: 2018-04-03 02:12:51
End at: 2018-04-03 02:13:21
Local clock offset: -0.127 ms
Remote clock offset: -5.436 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 107.850 ms
Loss rate: 41.72%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 99.784 ms
Loss rate: 35.80%
-- Flow 2:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 76.979 ms
Loss rate: 65.20%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 156.873 ms
Loss rate: 50.45%

Run 1: Report of TCP Vegas — Data Link

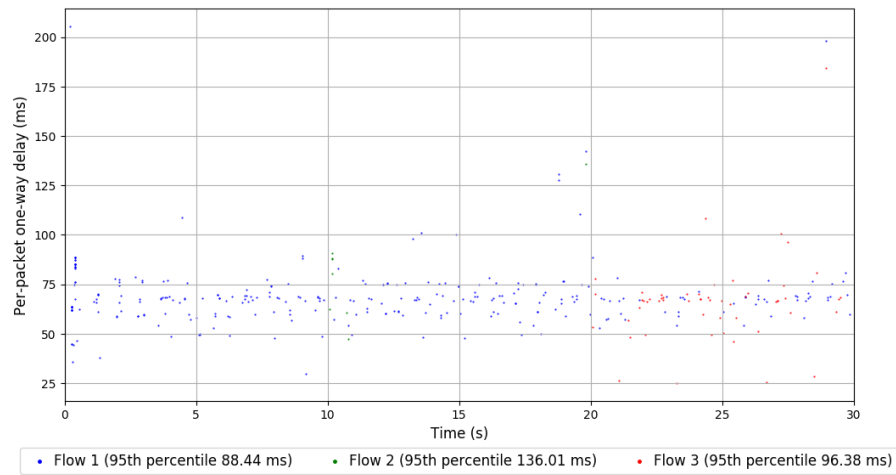
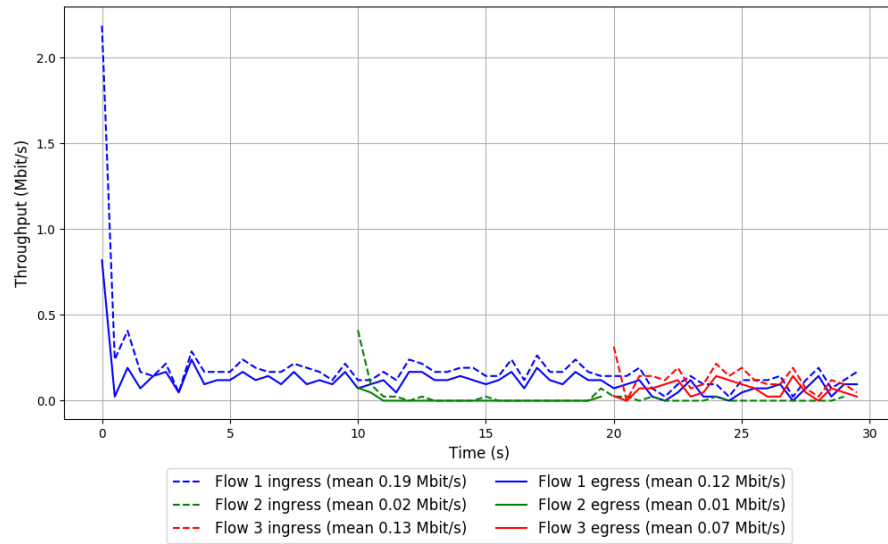


Run 2: Statistics of TCP Vegas

Start at: 2018-04-03 02:36:31
End at: 2018-04-03 02:37:01
Local clock offset: 0.048 ms
Remote clock offset: -5.082 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 88.504 ms
Loss rate: 44.10%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 88.444 ms
Loss rate: 40.49%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 136.014 ms
Loss rate: 81.52%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 96.377 ms
Loss rate: 48.98%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-03 03:00:14

End at: 2018-04-03 03:00:44

Local clock offset: -0.076 ms

Remote clock offset: -5.14 ms

Below is generated by plot.py at 2018-04-03 04:23:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 83.084 ms

Loss rate: 43.94%

-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 91.349 ms

Loss rate: 45.16%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 81.790 ms

Loss rate: 39.82%

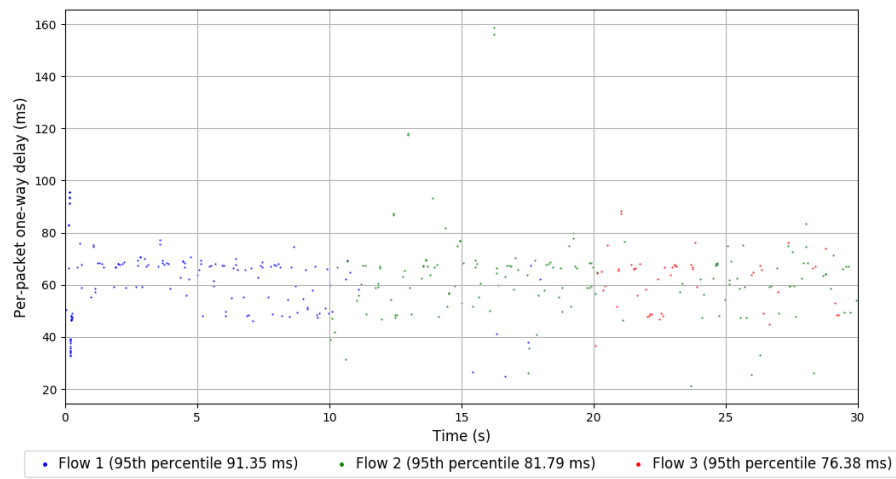
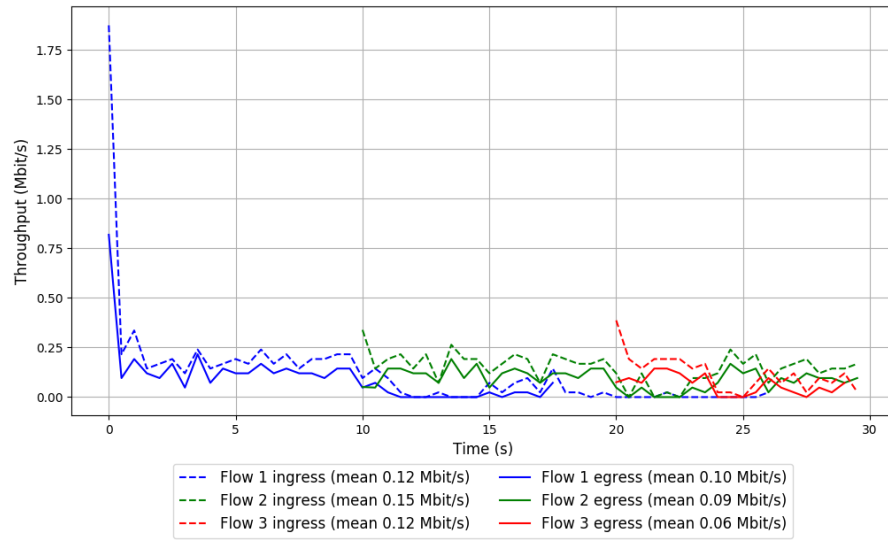
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 76.381 ms

Loss rate: 50.97%

Run 3: Report of TCP Vegas — Data Link

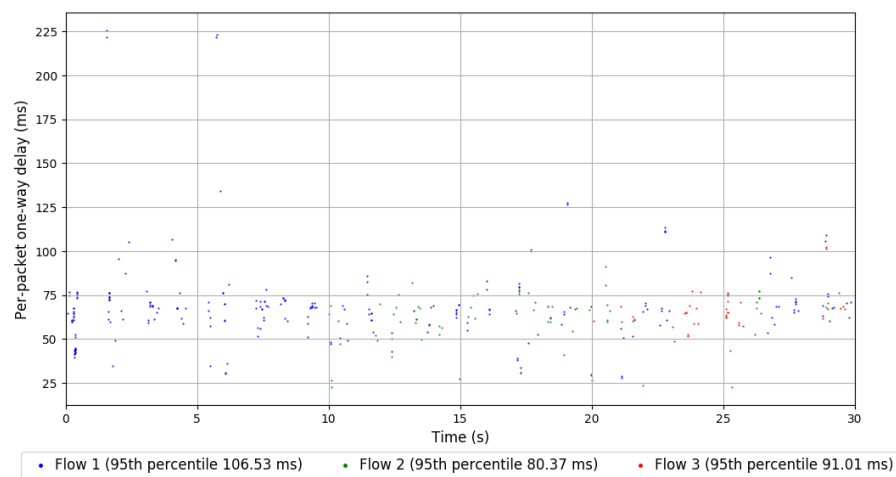
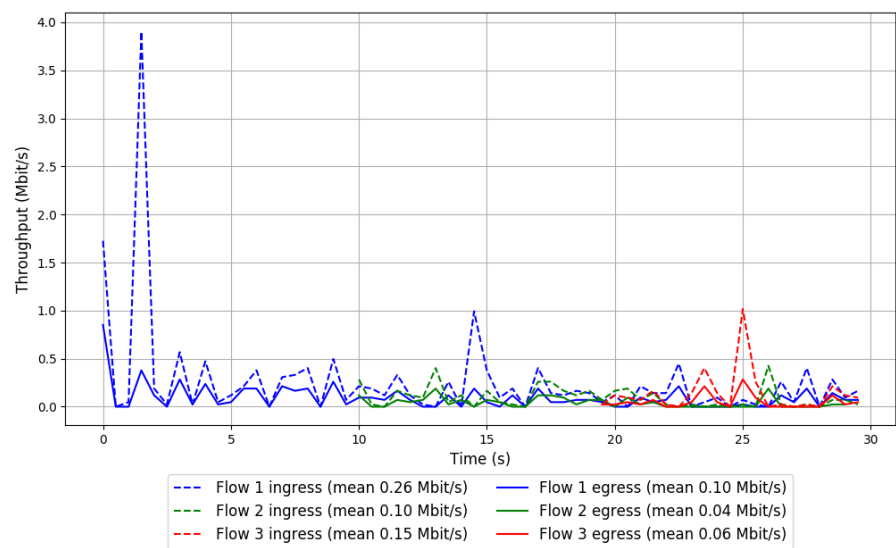


Run 1: Statistics of Verus

Start at: 2018-04-03 02:08:55
End at: 2018-04-03 02:09:25
Local clock offset: -0.022 ms
Remote clock offset: -5.686 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 99.783 ms
Loss rate: 62.79%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 106.531 ms
Loss rate: 63.77%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 80.368 ms
Loss rate: 58.02%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 91.010 ms
Loss rate: 63.71%

Run 1: Report of Verus — Data Link

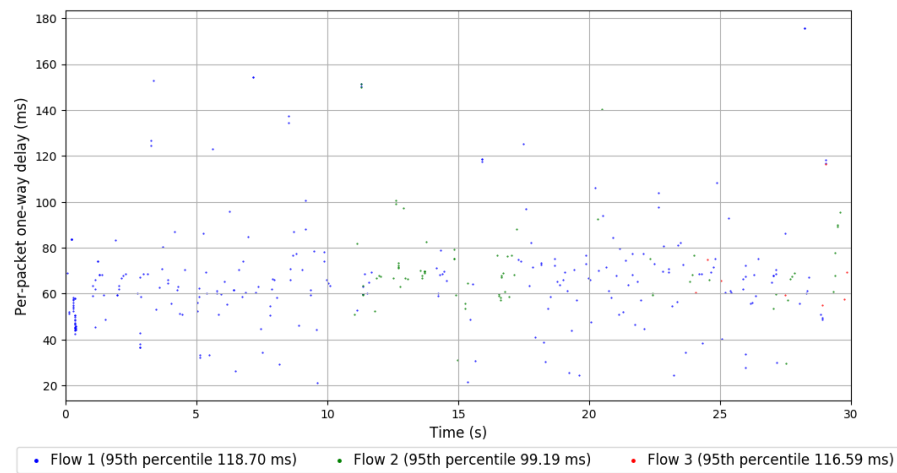
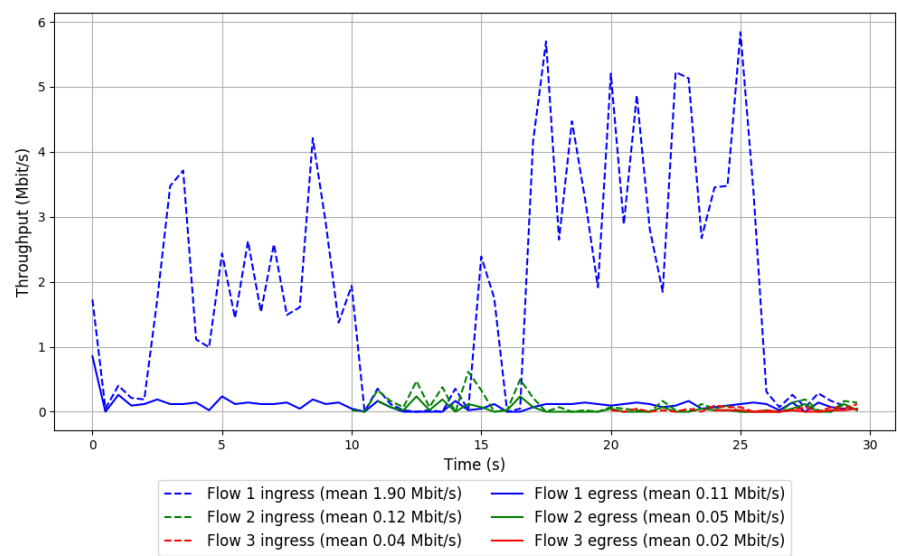


Run 2: Statistics of Verus

Start at: 2018-04-03 02:32:35
End at: 2018-04-03 02:33:05
Local clock offset: -0.016 ms
Remote clock offset: -5.035 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 118.231 ms
Loss rate: 92.93%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 118.701 ms
Loss rate: 94.31%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 99.193 ms
Loss rate: 61.66%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 116.588 ms
Loss rate: 74.19%

Run 2: Report of Verus — Data Link

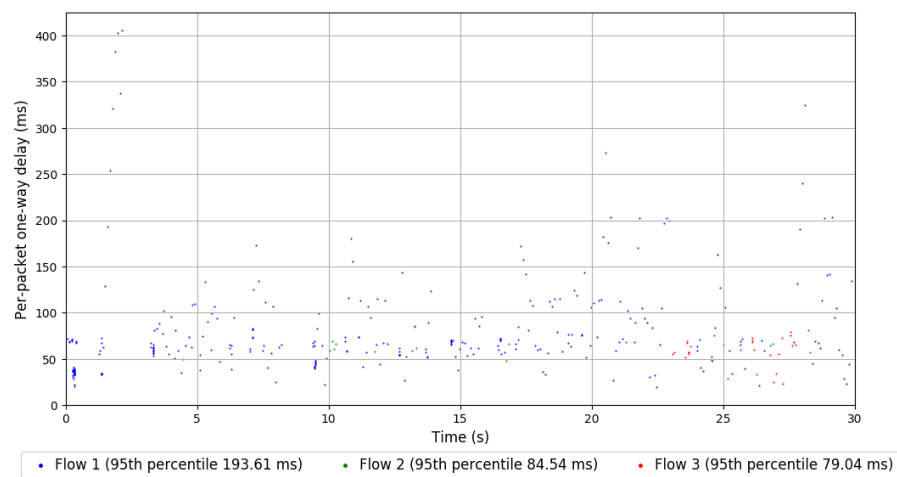
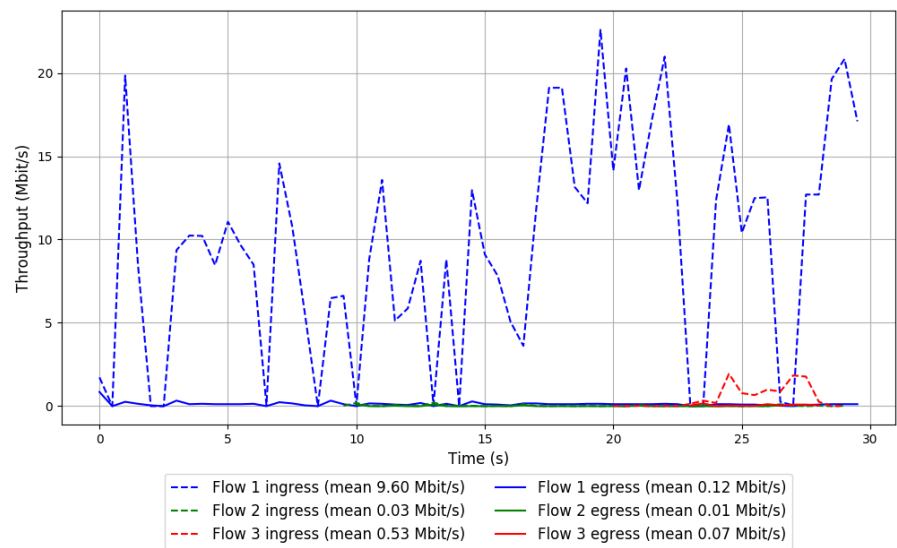


Run 3: Statistics of Verus

Start at: 2018-04-03 02:56:17
End at: 2018-04-03 02:56:47
Local clock offset: -0.012 ms
Remote clock offset: -5.148 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 182.087 ms
Loss rate: 98.57%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 193.607 ms
Loss rate: 98.72%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 84.543 ms
Loss rate: 72.55%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 79.037 ms
Loss rate: 92.82%

Run 3: Report of Verus — Data Link

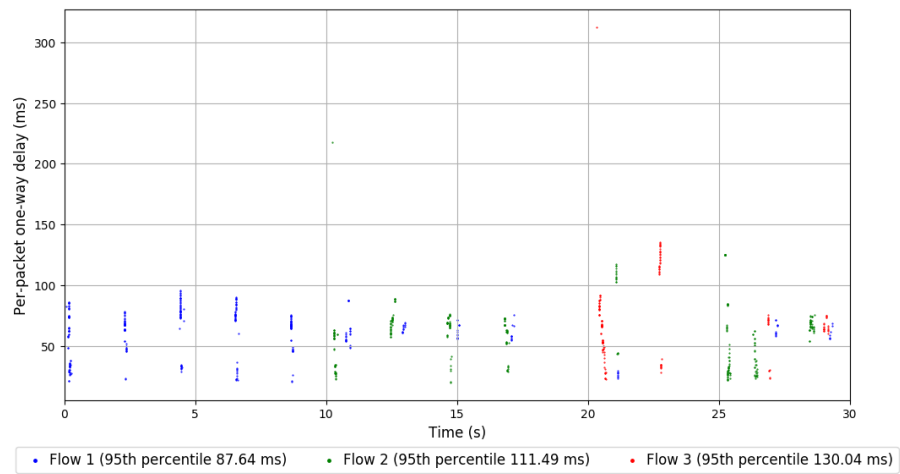
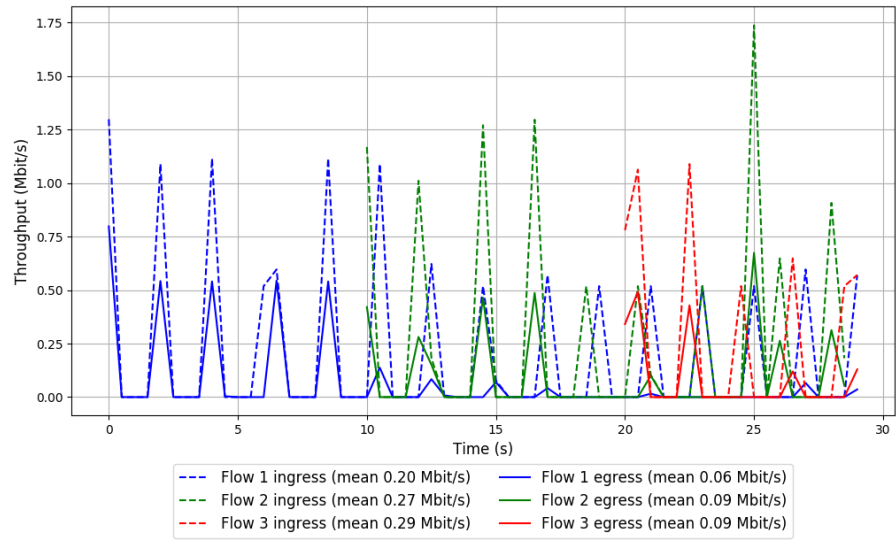


Run 1: Statistics of Copa

Start at: 2018-04-03 02:23:23
End at: 2018-04-03 02:23:53
Local clock offset: -0.226 ms
Remote clock offset: -5.127 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 111.488 ms
Loss rate: 69.94%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 87.641 ms
Loss rate: 71.08%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 111.488 ms
Loss rate: 68.12%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 130.037 ms
Loss rate: 70.87%

Run 1: Report of Copa — Data Link

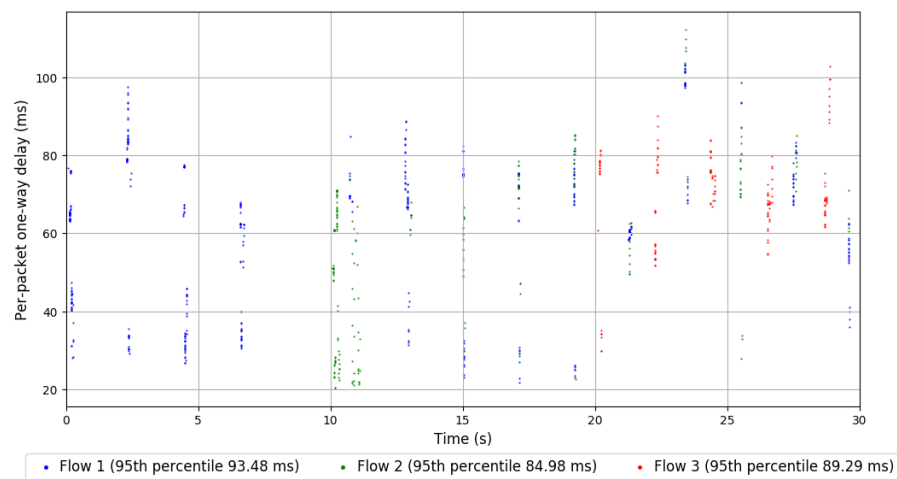
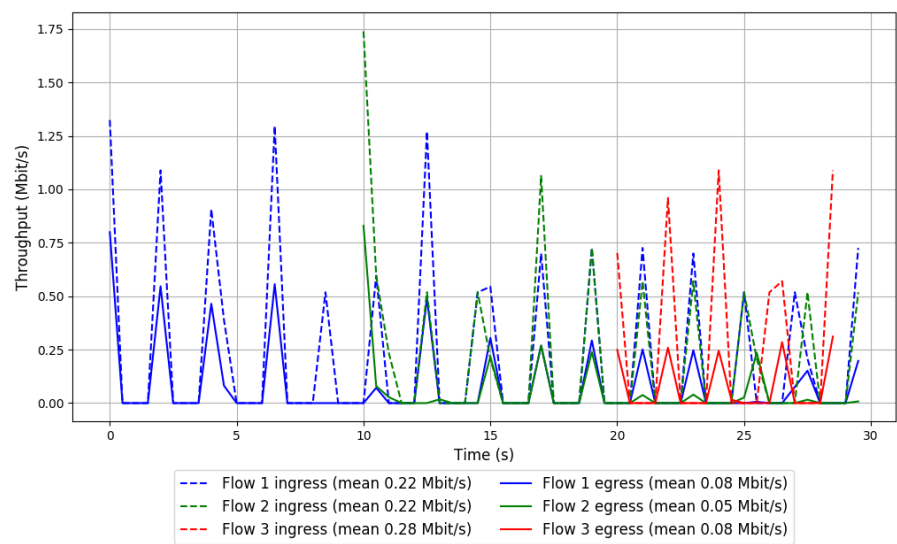


Run 2: Statistics of Copa

Start at: 2018-04-03 02:47:03
End at: 2018-04-03 02:47:33
Local clock offset: 0.049 ms
Remote clock offset: -5.094 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 89.611 ms
Loss rate: 69.24%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 93.479 ms
Loss rate: 63.79%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.977 ms
Loss rate: 75.98%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 89.289 ms
Loss rate: 72.29%

Run 2: Report of Copa — Data Link

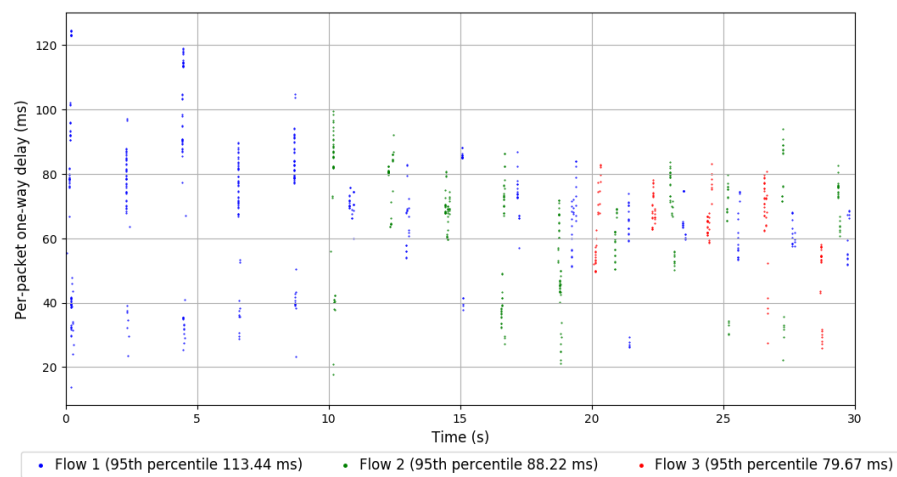
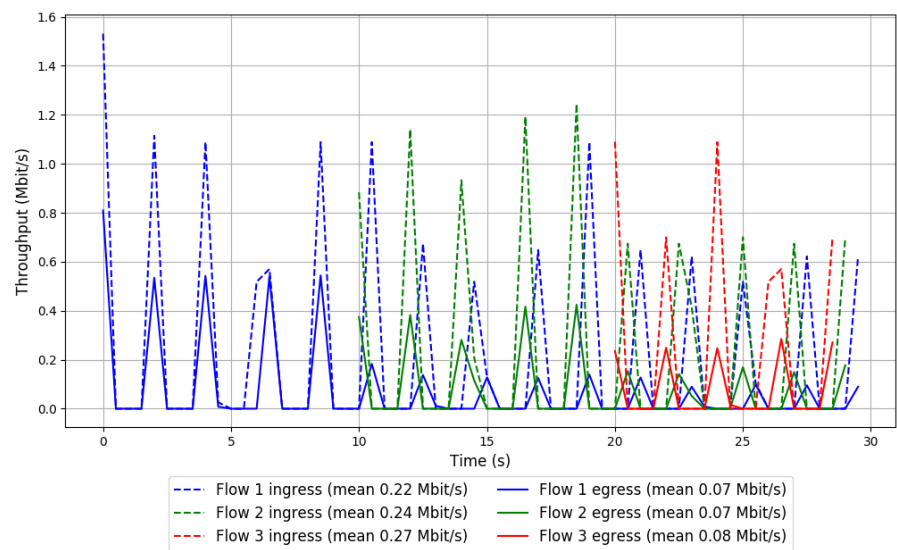


Run 3: Statistics of Copa

Start at: 2018-04-03 03:10:45
End at: 2018-04-03 03:11:15
Local clock offset: 0.231 ms
Remote clock offset: -5.157 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 95.071 ms
Loss rate: 69.43%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 113.443 ms
Loss rate: 68.15%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 88.219 ms
Loss rate: 69.93%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 79.670 ms
Loss rate: 72.07%

Run 3: Report of Copa — Data Link

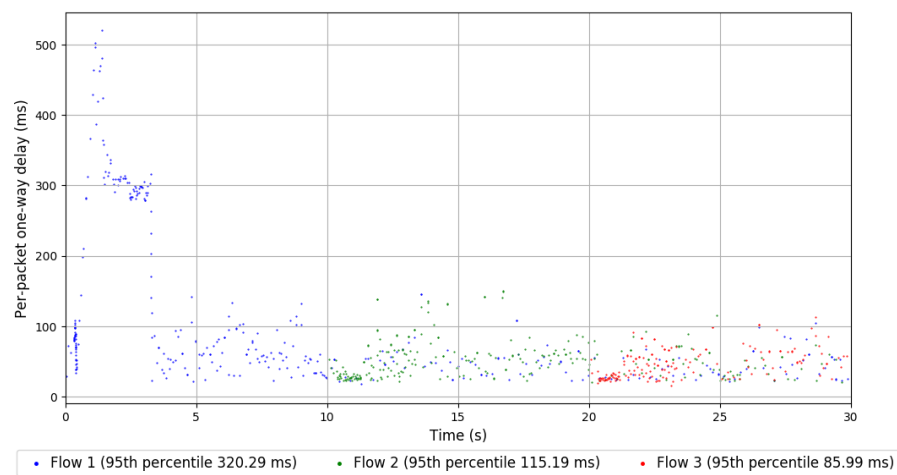
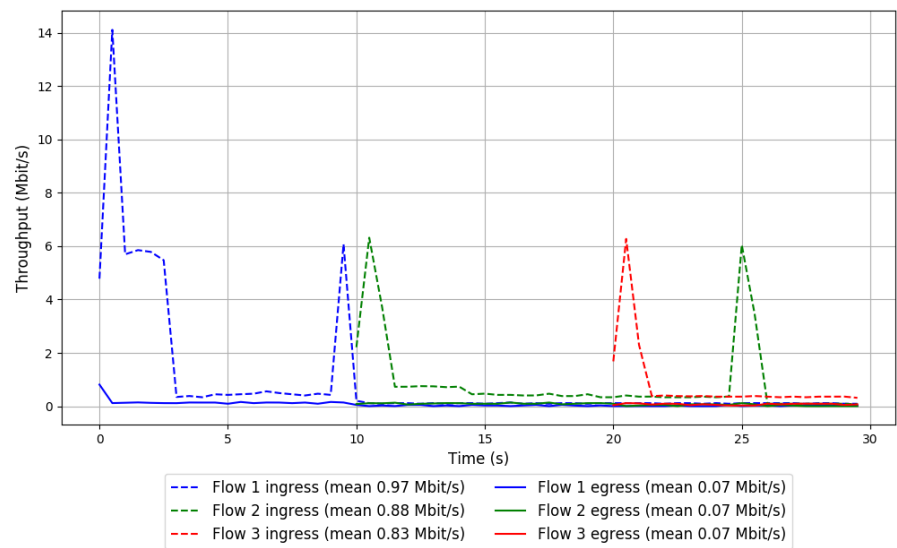


Run 1: Statistics of FillP

Start at: 2018-04-03 02:11:33
End at: 2018-04-03 02:12:03
Local clock offset: -0.111 ms
Remote clock offset: -5.448 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 301.145 ms
Loss rate: 92.38%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 320.288 ms
Loss rate: 92.86%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 115.187 ms
Loss rate: 92.00%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 85.989 ms
Loss rate: 91.52%

Run 1: Report of FillP — Data Link

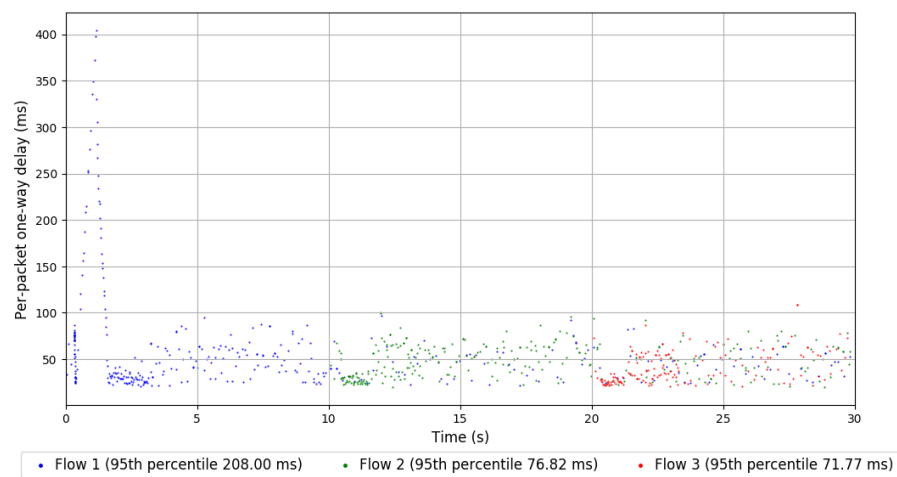
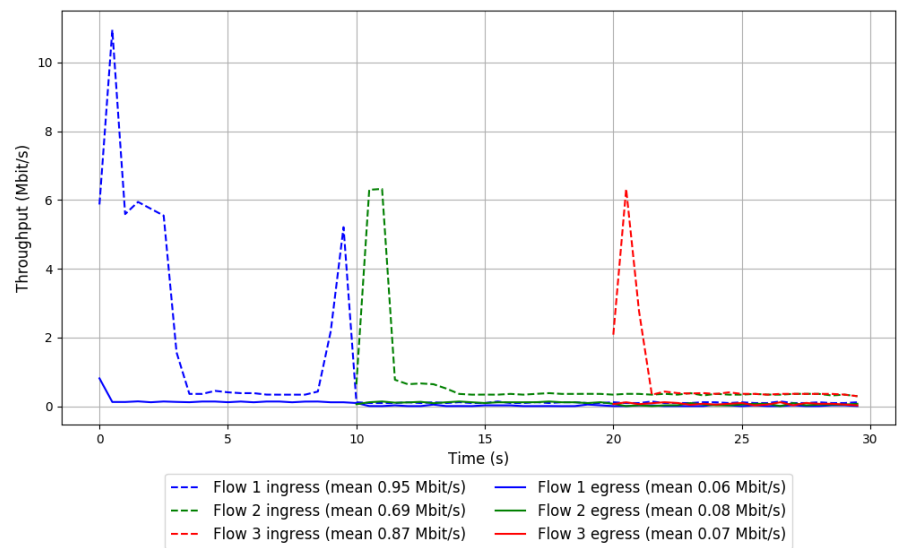


Run 2: Statistics of FillP

Start at: 2018-04-03 02:35:13
End at: 2018-04-03 02:35:43
Local clock offset: 0.055 ms
Remote clock offset: -5.077 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 95.960 ms
Loss rate: 91.81%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 207.998 ms
Loss rate: 93.23%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 76.818 ms
Loss rate: 88.75%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 71.772 ms
Loss rate: 92.05%

Run 2: Report of FillP — Data Link

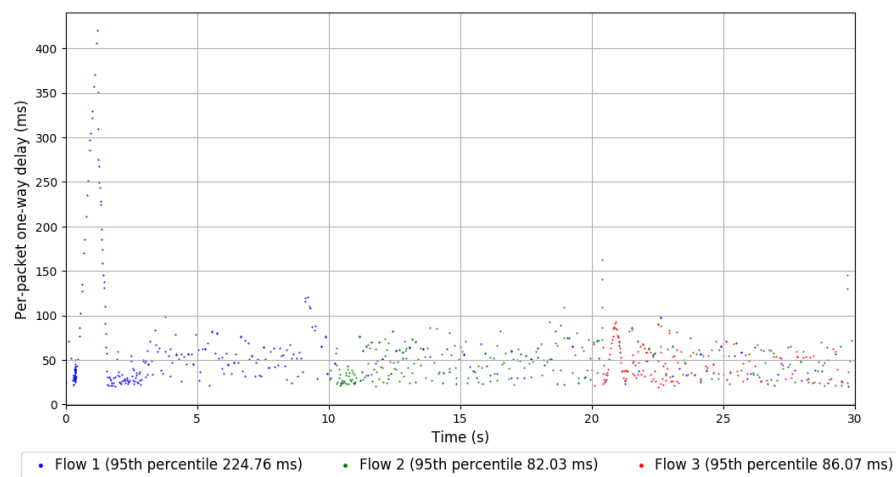
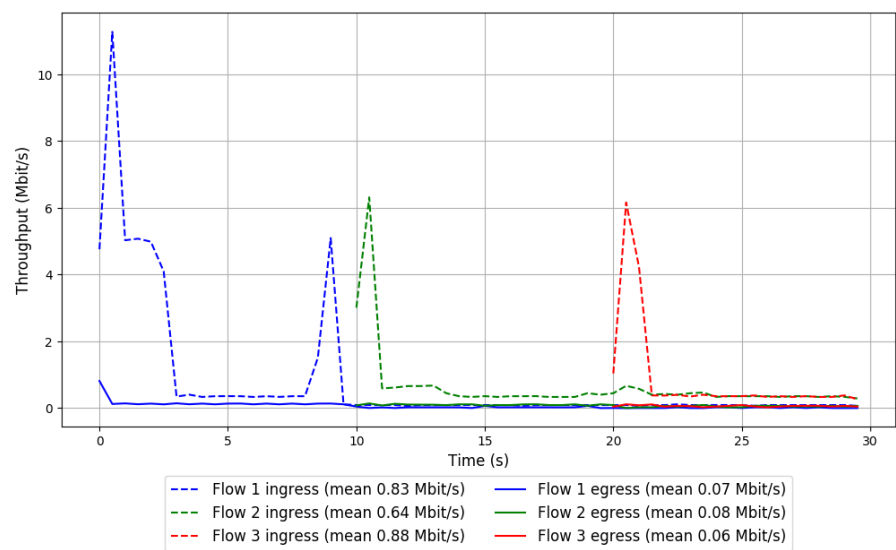


Run 3: Statistics of FillP

Start at: 2018-04-03 02:58:55
End at: 2018-04-03 02:59:25
Local clock offset: -0.167 ms
Remote clock offset: -5.025 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.915 ms
Loss rate: 90.95%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 224.757 ms
Loss rate: 91.94%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 82.034 ms
Loss rate: 87.71%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 86.072 ms
Loss rate: 92.83%

Run 3: Report of FillP — Data Link

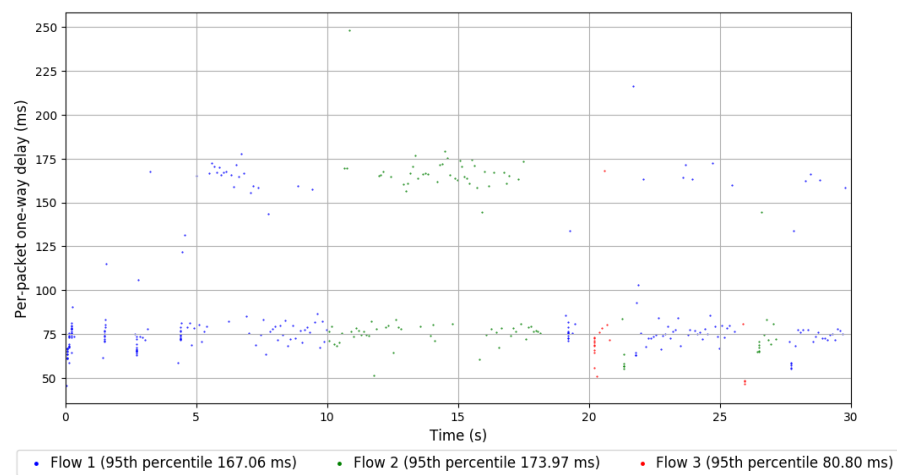
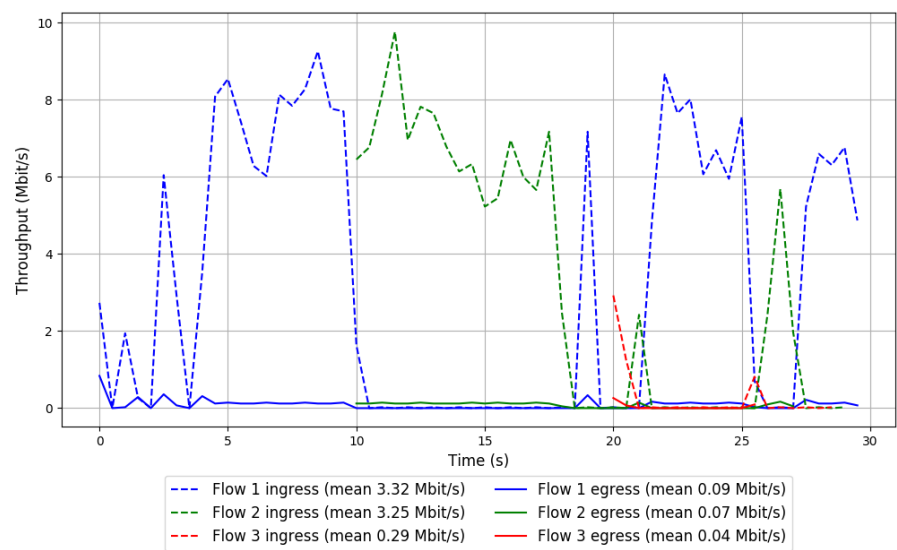


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-03 02:15:29
End at: 2018-04-03 02:15:59
Local clock offset: -0.066 ms
Remote clock offset: -5.415 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 170.404 ms
Loss rate: 97.44%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 167.064 ms
Loss rate: 97.27%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 173.974 ms
Loss rate: 97.96%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 80.796 ms
Loss rate: 91.65%

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

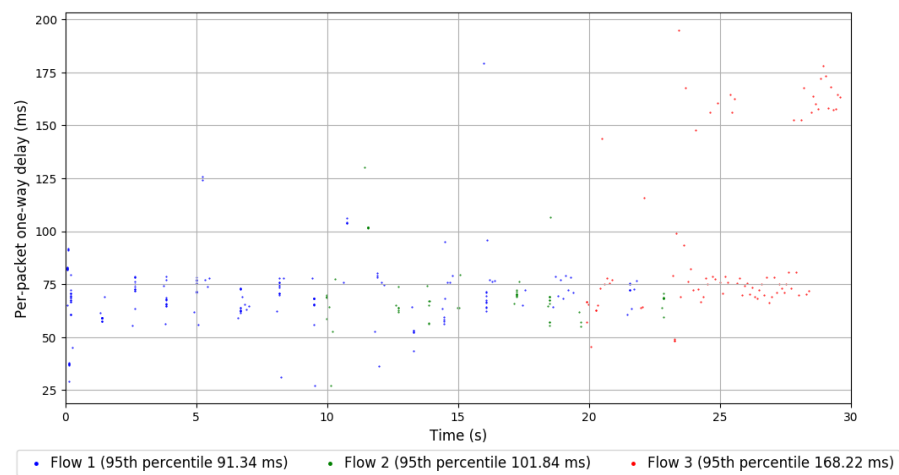
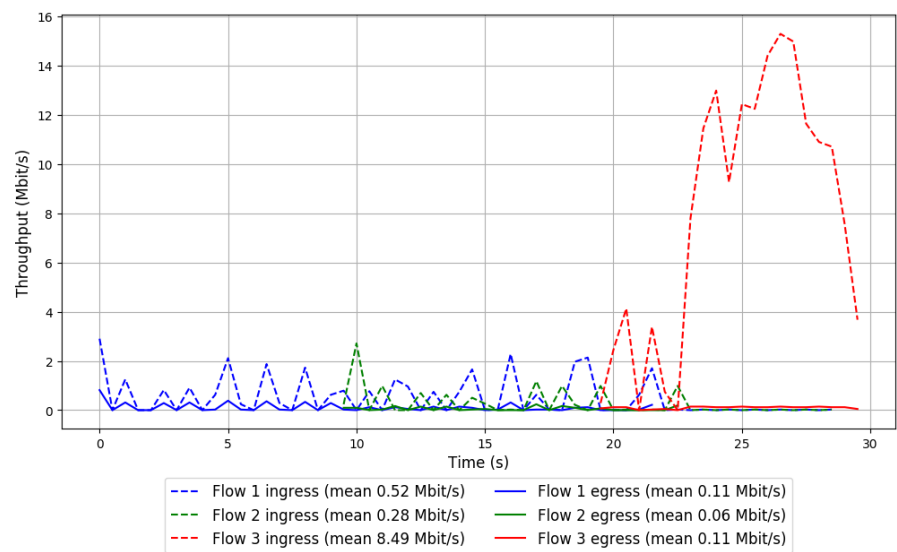


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-03 02:39:09
End at: 2018-04-03 02:39:39
Local clock offset: 0.044 ms
Remote clock offset: -5.065 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 157.709 ms
Loss rate: 95.97%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 91.337 ms
Loss rate: 84.25%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 101.839 ms
Loss rate: 85.71%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 168.220 ms
Loss rate: 98.73%

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

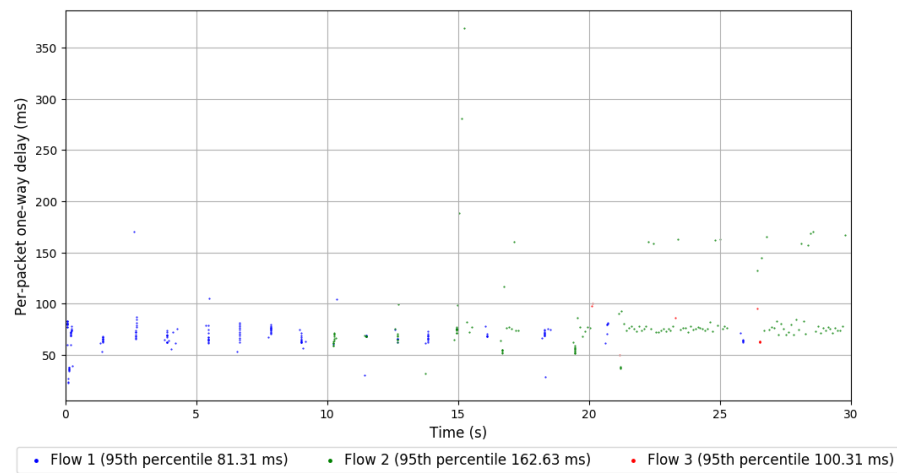
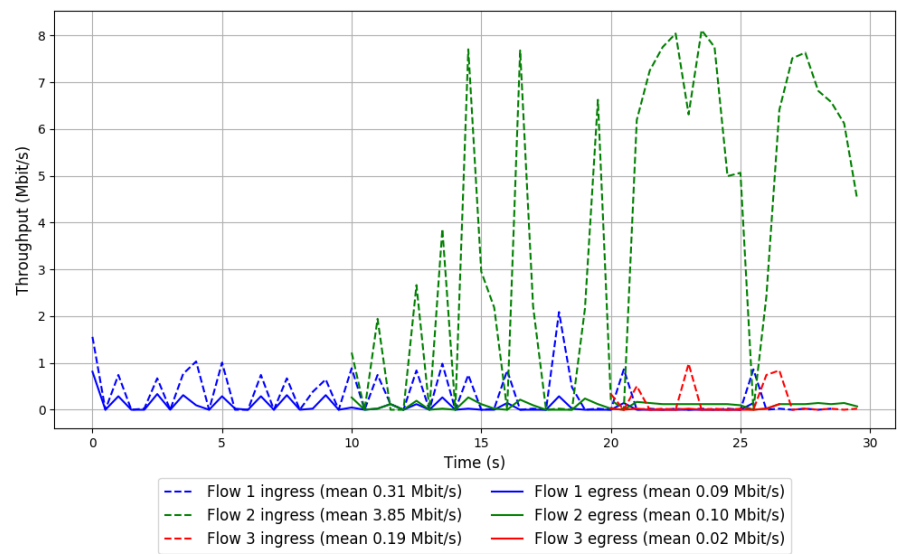


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-03 03:02:52
End at: 2018-04-03 03:03:22
Local clock offset: 0.08 ms
Remote clock offset: -5.074 ms

Below is generated by plot.py at 2018-04-03 04:23:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 116.810 ms
Loss rate: 95.14%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 81.315 ms
Loss rate: 75.28%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 162.632 ms
Loss rate: 97.54%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 100.307 ms
Loss rate: 93.89%

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

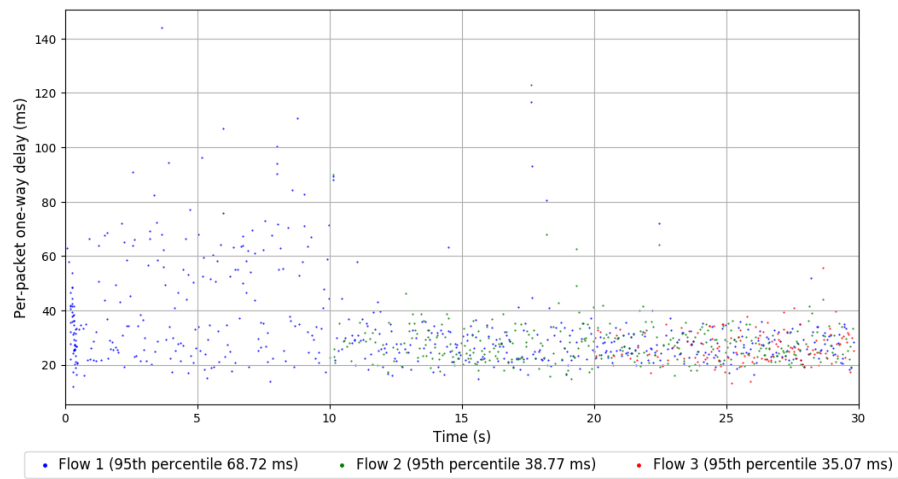
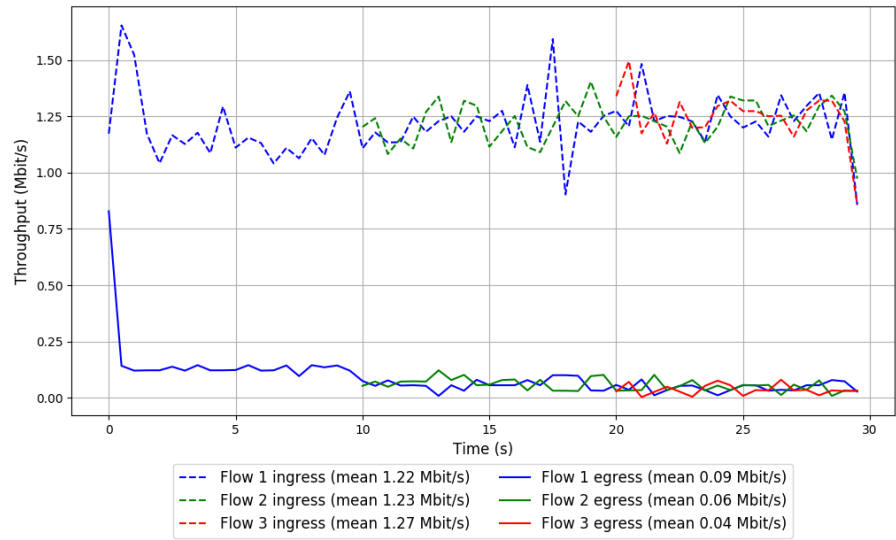


Run 1: Statistics of Vivace-latency

Start at: 2018-04-03 02:14:10
End at: 2018-04-03 02:14:40
Local clock offset: -0.04 ms
Remote clock offset: -5.437 ms

Below is generated by plot.py at 2018-04-03 04:23:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 63.154 ms
Loss rate: 94.30%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 68.719 ms
Loss rate: 92.63%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 38.768 ms
Loss rate: 95.36%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 35.066 ms
Loss rate: 97.13%

Run 1: Report of Vivace-latency — Data Link

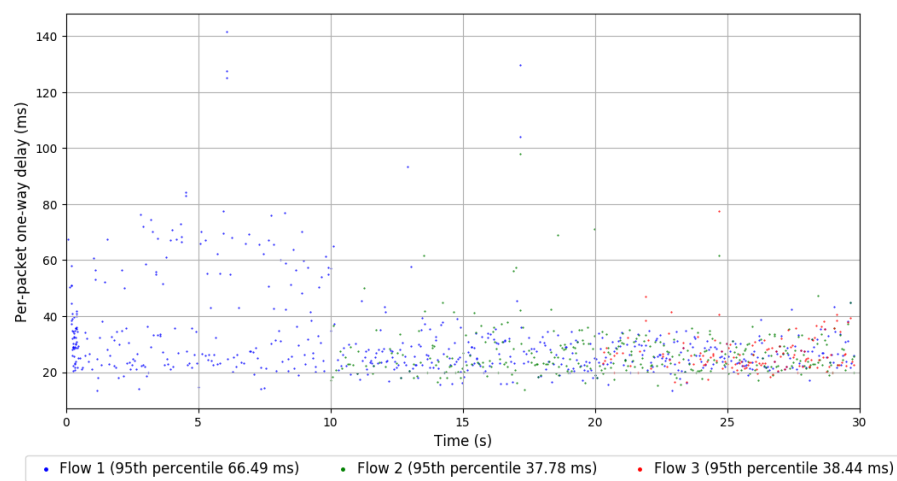
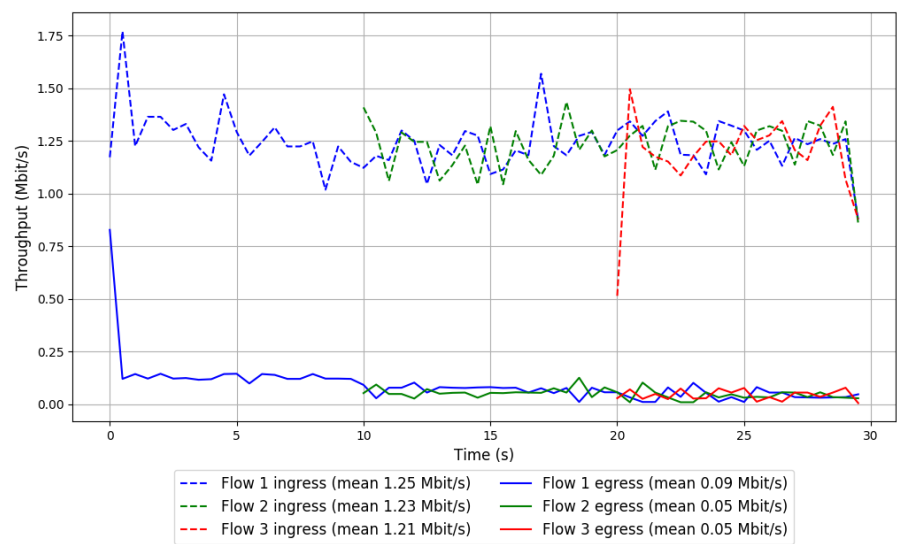


Run 2: Statistics of Vivace-latency

Start at: 2018-04-03 02:37:50
End at: 2018-04-03 02:38:20
Local clock offset: 0.042 ms
Remote clock offset: -5.047 ms

Below is generated by plot.py at 2018-04-03 04:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 57.756 ms
Loss rate: 94.34%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 66.494 ms
Loss rate: 92.65%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 37.778 ms
Loss rate: 95.96%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 38.444 ms
Loss rate: 96.30%

Run 2: Report of Vivace-latency — Data Link

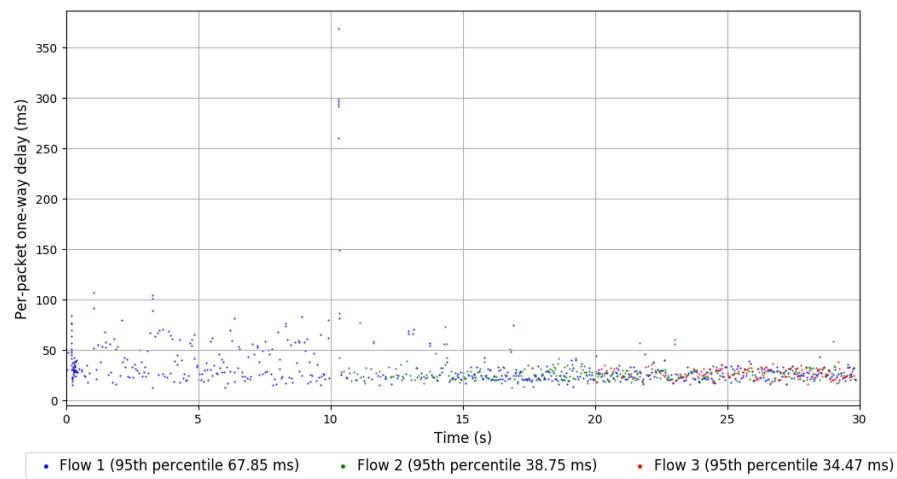
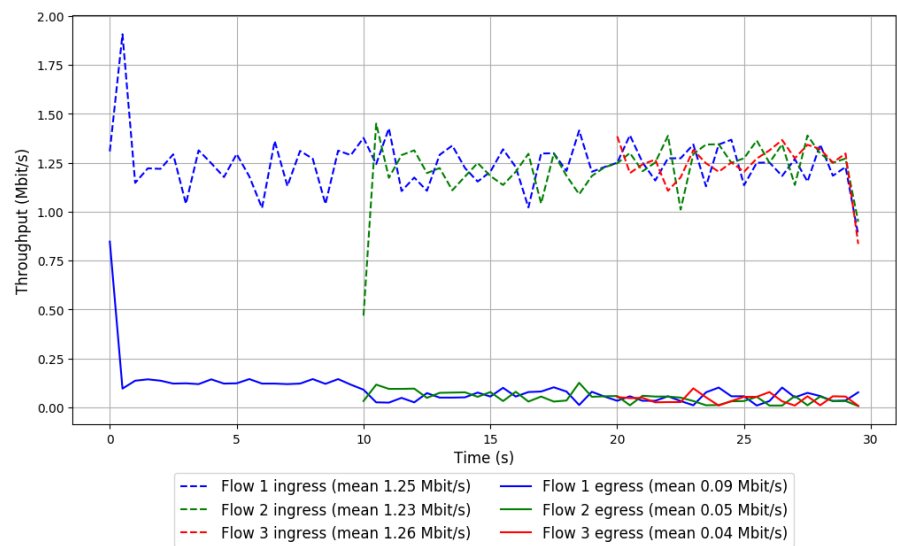


Run 3: Statistics of Vivace-latency

Start at: 2018-04-03 03:01:33
End at: 2018-04-03 03:02:03
Local clock offset: 0.019 ms
Remote clock offset: -5.055 ms

Below is generated by plot.py at 2018-04-03 04:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 59.687 ms
Loss rate: 94.36%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 67.846 ms
Loss rate: 92.63%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 38.754 ms
Loss rate: 95.86%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 34.467 ms
Loss rate: 96.65%

Run 3: Report of Vivace-latency — Data Link

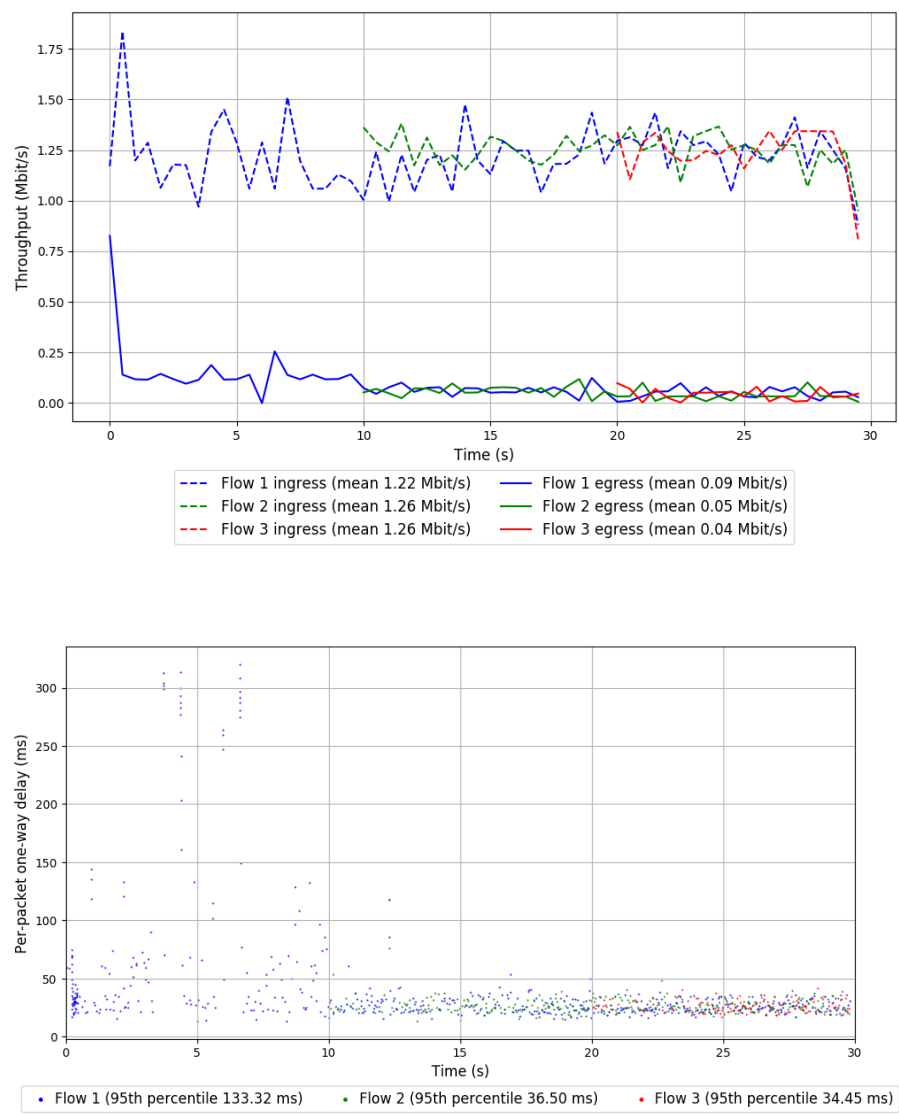


Run 1: Statistics of Vivace-loss

Start at: 2018-04-03 02:19:25
End at: 2018-04-03 02:19:55
Local clock offset: -0.238 ms
Remote clock offset: -5.238 ms

Below is generated by plot.py at 2018-04-03 04:23:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 69.638 ms
Loss rate: 94.37%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 133.316 ms
Loss rate: 92.47%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 36.502 ms
Loss rate: 96.05%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 34.447 ms
Loss rate: 96.59%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-03 02:43:07

End at: 2018-04-03 02:43:37

Local clock offset: 0.048 ms

Remote clock offset: -5.16 ms

Below is generated by plot.py at 2018-04-03 04:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 62.515 ms

Loss rate: 94.33%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 67.223 ms

Loss rate: 92.55%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 37.194 ms

Loss rate: 95.61%

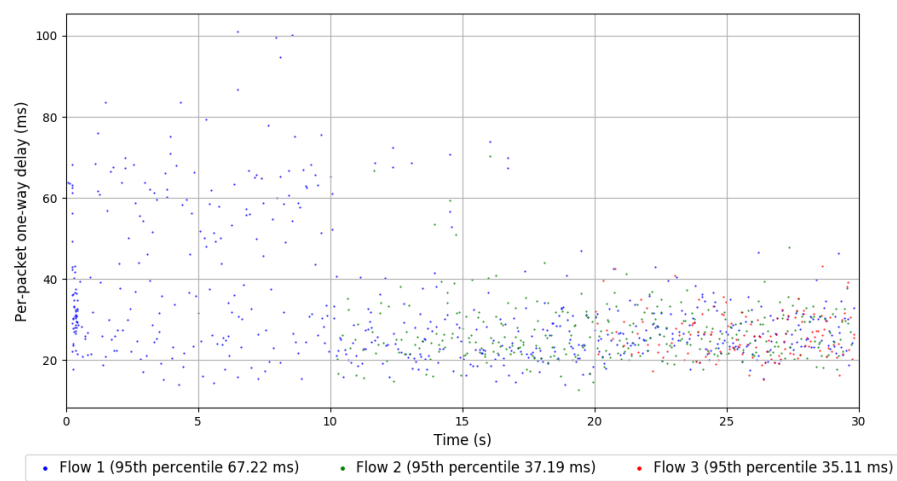
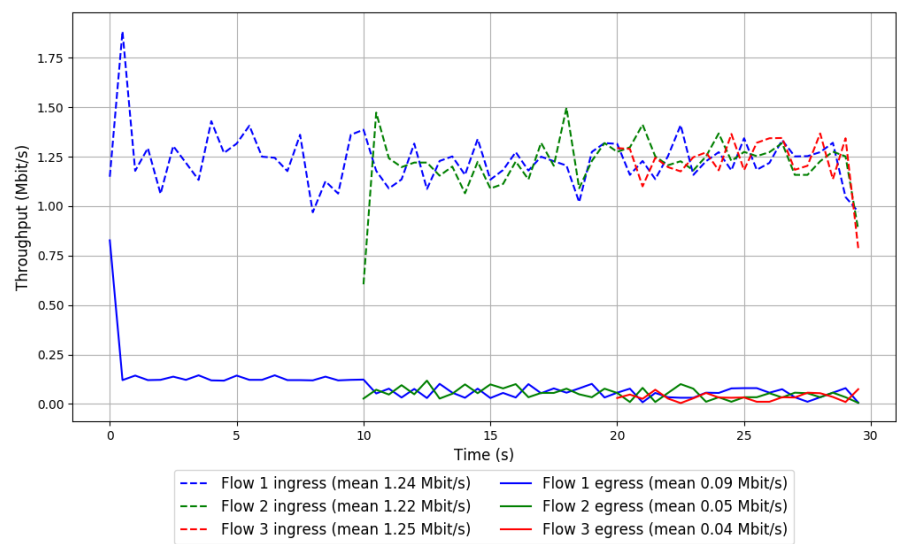
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 35.113 ms

Loss rate: 97.14%

Run 2: Report of Vivace-loss — Data Link

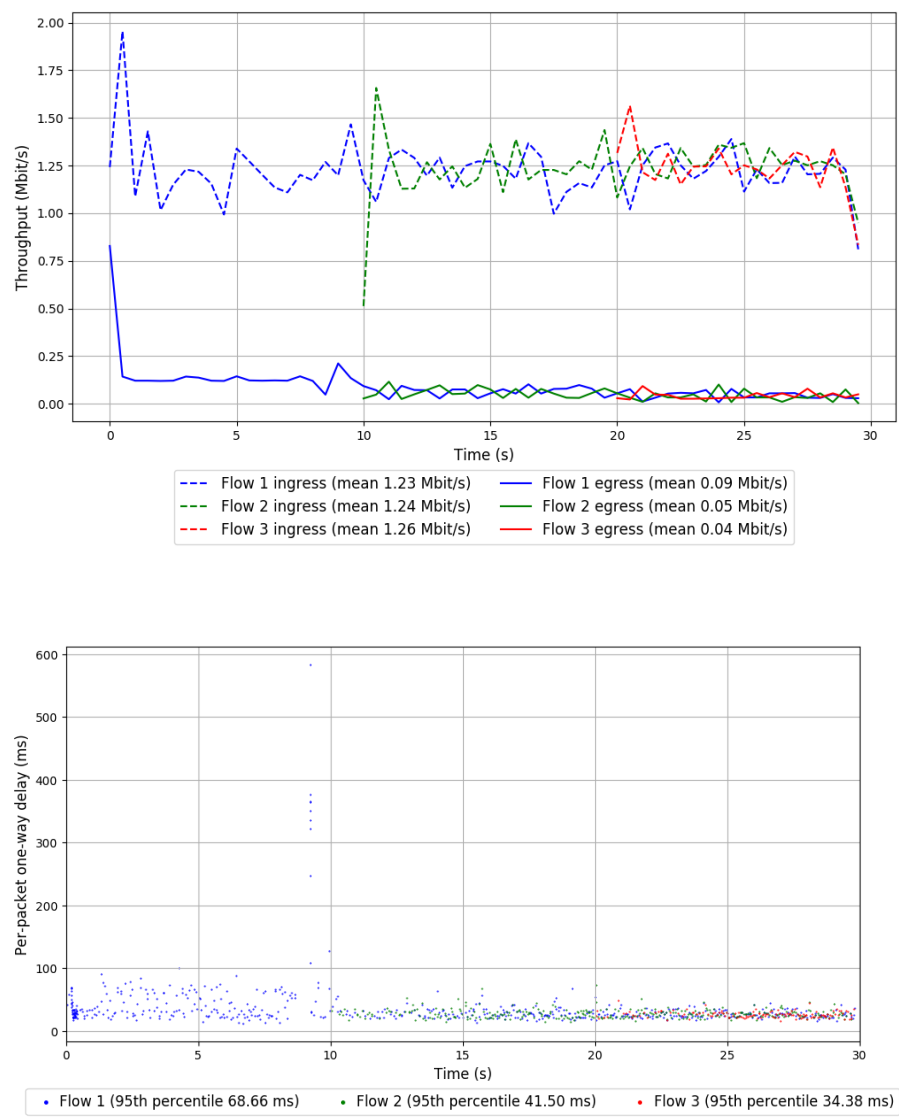


Run 3: Statistics of Vivace-loss

Start at: 2018-04-03 03:06:48
End at: 2018-04-03 03:07:18
Local clock offset: 0.165 ms
Remote clock offset: -5.092 ms

Below is generated by plot.py at 2018-04-03 04:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 62.765 ms
Loss rate: 94.34%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 68.657 ms
Loss rate: 92.46%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 41.497 ms
Loss rate: 96.04%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 34.384 ms
Loss rate: 96.55%

Run 3: Report of Vivace-loss — Data Link

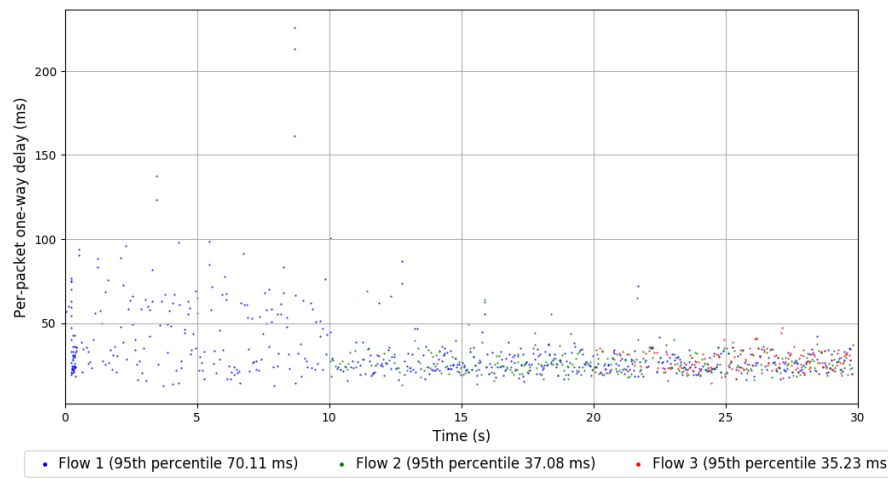
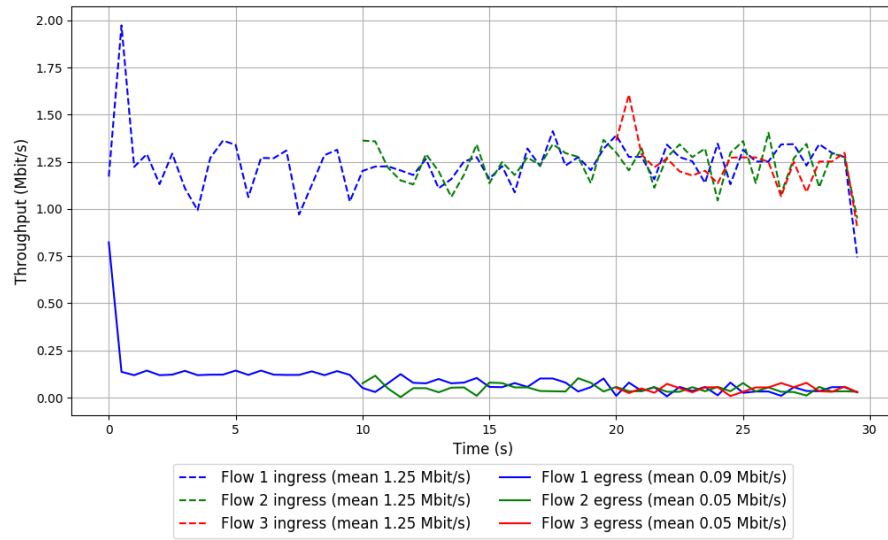


Run 1: Statistics of Vivace-LTE

Start at: 2018-04-03 02:16:48
End at: 2018-04-03 02:17:18
Local clock offset: -0.123 ms
Remote clock offset: -5.304 ms

Below is generated by plot.py at 2018-04-03 04:23:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 62.853 ms
Loss rate: 94.38%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 70.109 ms
Loss rate: 92.53%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 37.082 ms
Loss rate: 96.21%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.230 ms
Loss rate: 96.26%

Run 1: Report of Vivace-LTE — Data Link

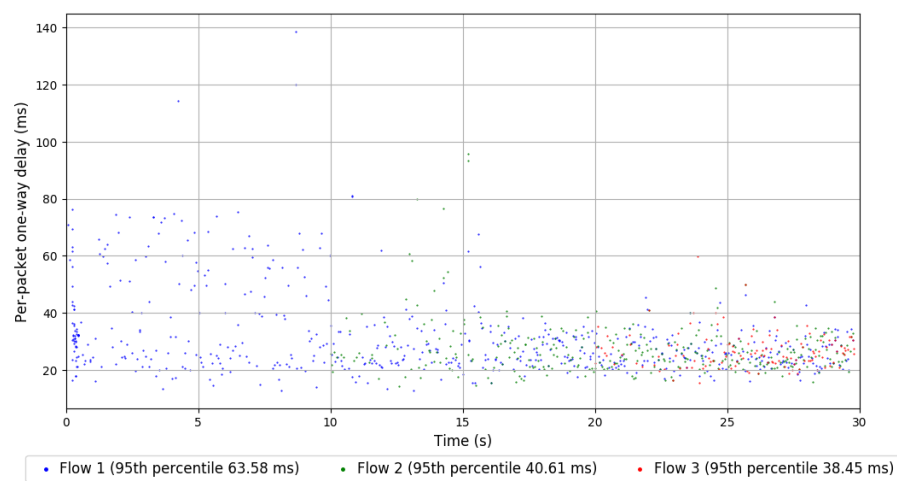
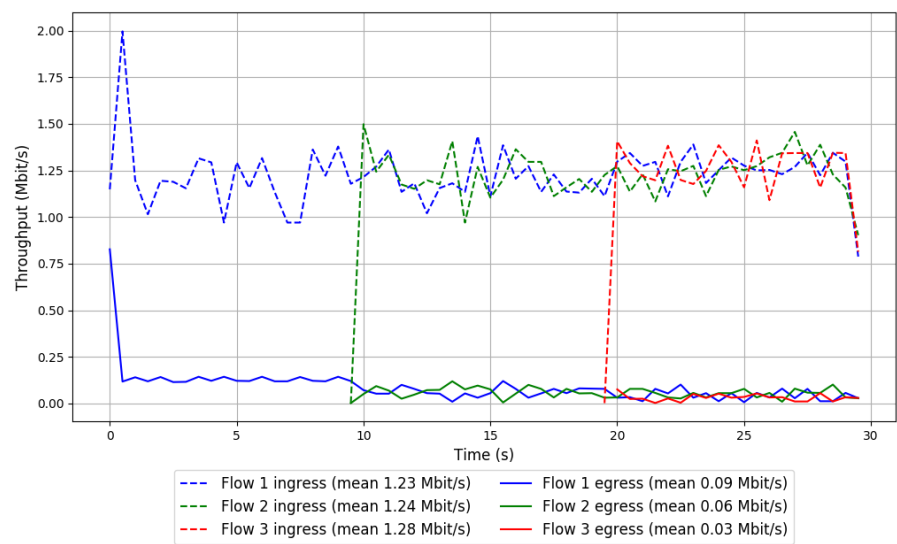


Run 2: Statistics of Vivace-LTE

Start at: 2018-04-03 02:40:28
End at: 2018-04-03 02:40:58
Local clock offset: 0.063 ms
Remote clock offset: -5.134 ms

Below is generated by plot.py at 2018-04-03 04:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 59.723 ms
Loss rate: 94.37%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 63.576 ms
Loss rate: 92.68%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.612 ms
Loss rate: 95.28%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 38.453 ms
Loss rate: 97.49%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-03 03:04:11
End at: 2018-04-03 03:04:41
Local clock offset: 0.105 ms
Remote clock offset: -5.122 ms

Below is generated by plot.py at 2018-04-03 04:23:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 56.784 ms
Loss rate: 94.31%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 63.823 ms
Loss rate: 92.56%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 38.524 ms
Loss rate: 95.79%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 34.824 ms
Loss rate: 96.55%

Run 3: Report of Vivace-LTE — Data Link

