

Pantheon Report

Generated at 2018-02-27 10:32:43 (UTC).

Data path: India ppp0 (*remote*) → AWS India 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).

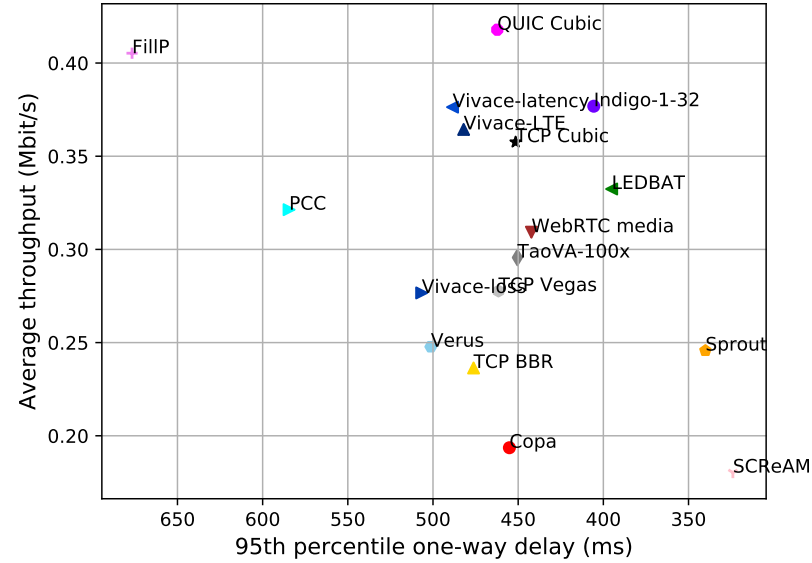
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

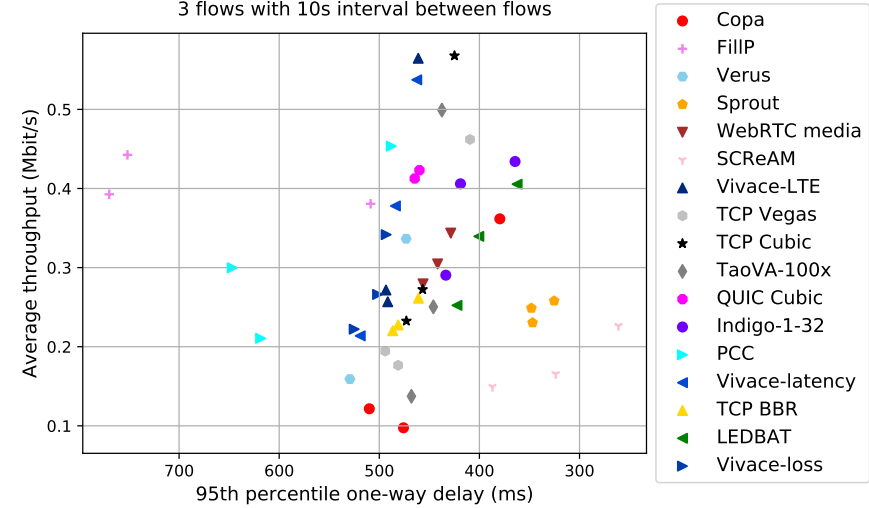
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



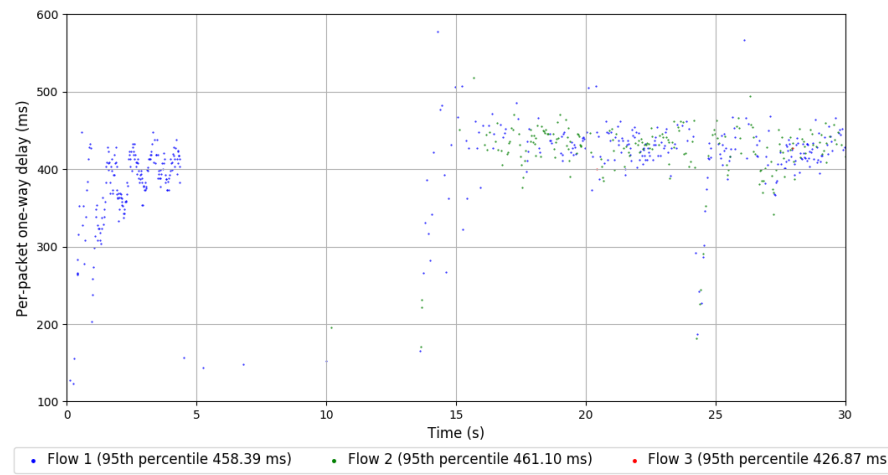
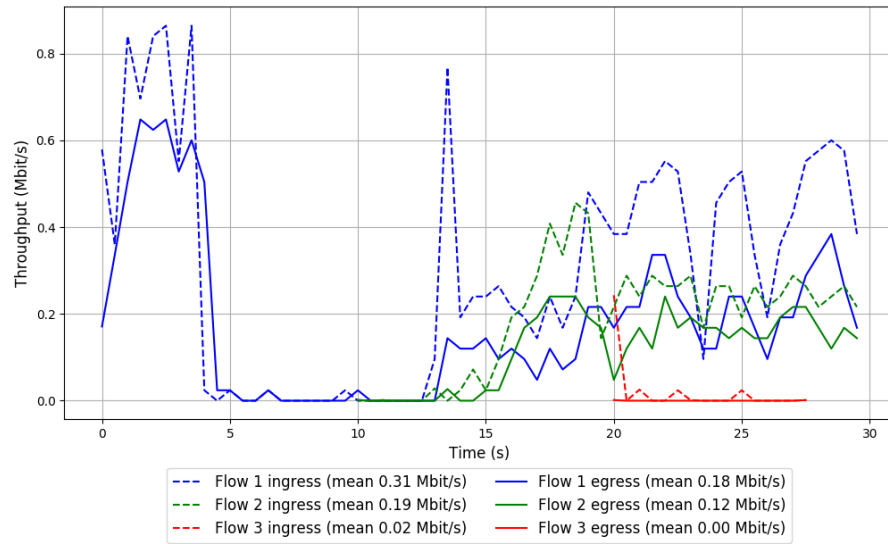
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	3	0.16	0.08	0.08	481.42	473.19	452.44	29.89	37.87	57.71
TCP Cubic	3	0.19	0.20	0.13	453.25	450.21	445.96	11.24	12.02	23.10
LEDBAT	3	0.19	0.16	0.11	391.71	405.12	385.17	3.84	3.24	13.04
PCC	3	0.32	0.00	N/A	584.47	N/A	N/A	98.28	N/A	N/A
QUIC Cubic	2	0.26	0.20	0.12	462.44	466.17	446.15	29.92	37.40	62.72
SCReAM	3	0.09	0.09	0.10	310.32	328.61	349.17	0.98	1.86	1.70
WebRTC media	3	0.15	0.12	0.05	448.93	434.77	432.99	23.32	22.81	34.09
Sprout	3	0.13	0.13	0.12	324.32	345.01	350.35	6.03	3.70	8.99
TaoVA-100x	3	0.11	0.26	0.11	456.56	449.99	455.73	82.32	66.01	84.53
TCP Vegas	3	0.16	0.11	0.15	467.70	467.97	453.18	9.16	16.06	16.05
Verus	2	0.17	0.06	0.15	502.14	486.70	488.92	49.09	52.70	82.78
Copa	3	0.15	0.02	0.11	456.00	293.99	358.92	49.00	57.84	50.20
FillP	3	0.35	0.05	0.06	521.14	562.72	596.14	99.01	94.90	94.82
Indigo-1-32	3	0.21	0.17	0.18	399.25	398.52	415.74	6.80	11.43	22.70
Vivace-latency	3	0.30	0.05	0.16	487.17	440.24	498.07	77.99	89.68	86.39
Vivace-loss	3	0.26	0.00	0.06	503.17	414.22	592.45	81.22	92.31	94.45
Vivace-LTE	3	0.26	0.12	0.10	481.17	454.40	490.30	80.93	88.30	91.54

Run 1: Statistics of TCP BBR

Start at: 2018-02-27 08:47:42
End at: 2018-02-27 08:48:12
Local clock offset: 5.098 ms
Remote clock offset: -66.611 ms

Below is generated by plot.py at 2018-02-27 10:32:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 460.860 ms
Loss rate: 40.80%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 458.393 ms
Loss rate: 41.38%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 461.095 ms
Loss rate: 36.99%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 426.869 ms
Loss rate: 99.08%

Run 1: Report of TCP BBR — Data Link

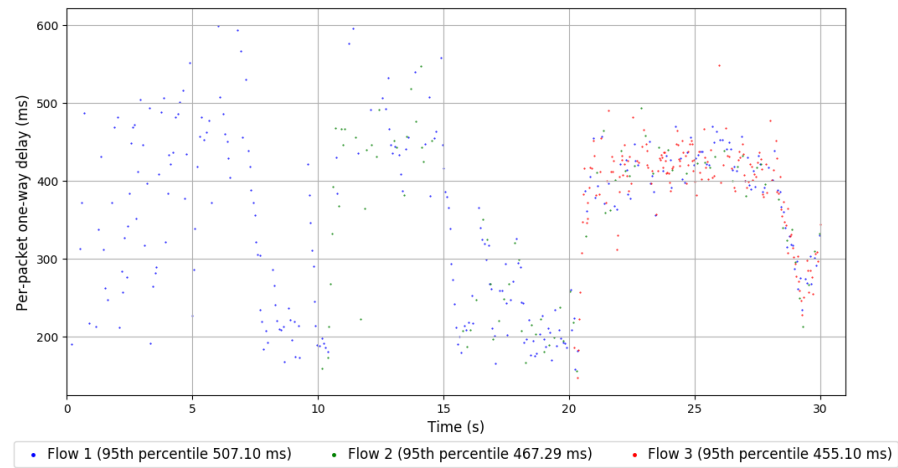
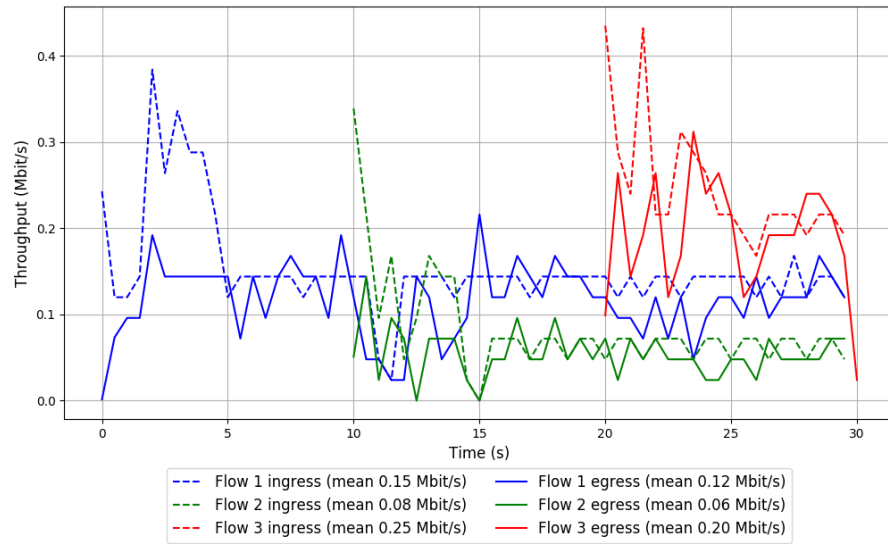


Run 2: Statistics of TCP BBR

Start at: 2018-02-27 09:07:42
End at: 2018-02-27 09:08:12
Local clock offset: 2.673 ms
Remote clock offset: -71.751 ms

Below is generated by plot.py at 2018-02-27 10:32:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 486.574 ms
Loss rate: 24.54%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 507.103 ms
Loss rate: 24.14%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 467.294 ms
Loss rate: 34.03%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 455.104 ms
Loss rate: 18.92%

Run 2: Report of TCP BBR — Data Link

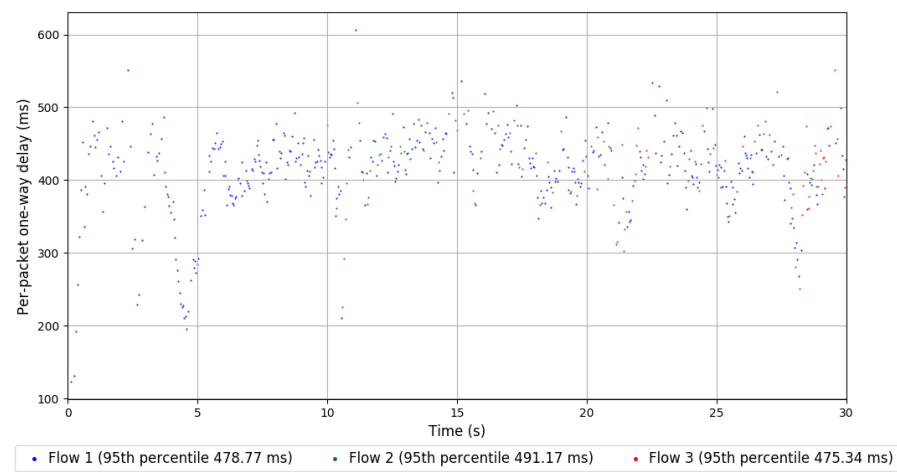
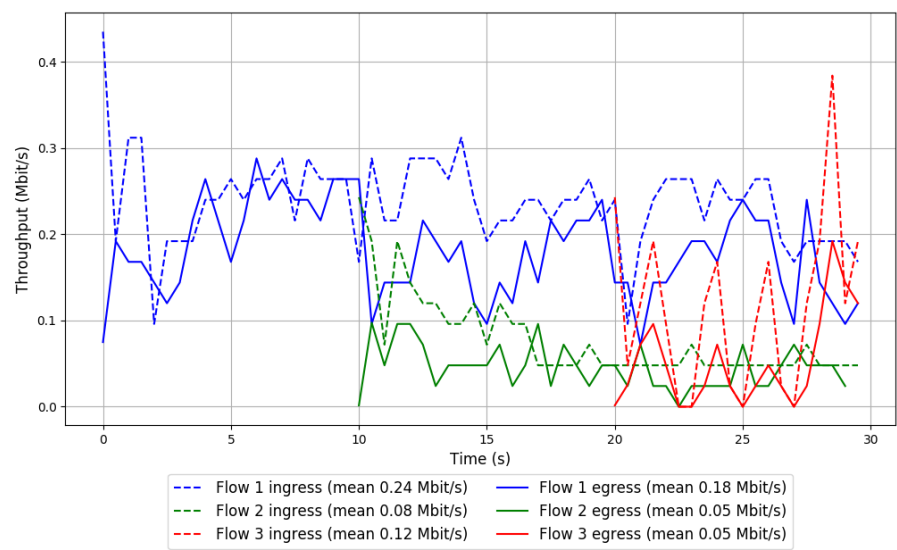


Run 3: Statistics of TCP BBR

Start at: 2018-02-27 09:27:50
End at: 2018-02-27 09:28:20
Local clock offset: 2.358 ms
Remote clock offset: -67.597 ms

Below is generated by plot.py at 2018-02-27 10:32:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 481.128 ms
Loss rate: 30.71%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 478.768 ms
Loss rate: 24.15%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 491.167 ms
Loss rate: 42.60%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 475.341 ms
Loss rate: 55.14%

Run 3: Report of TCP BBR — Data Link

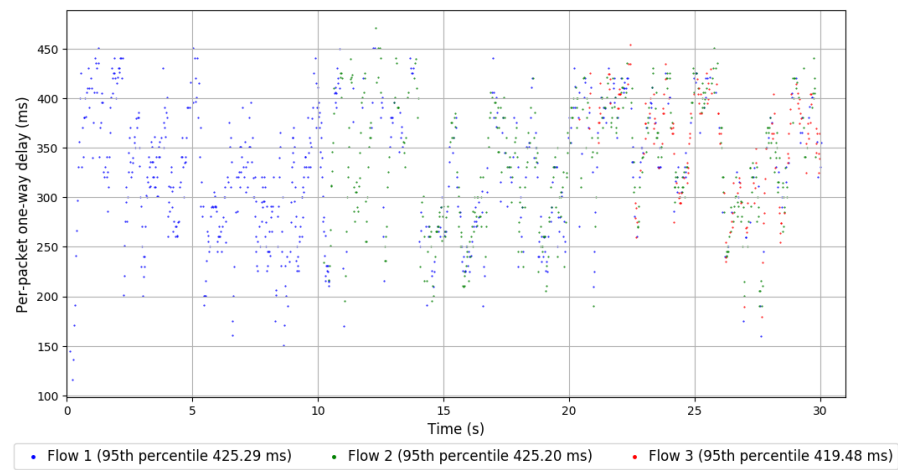
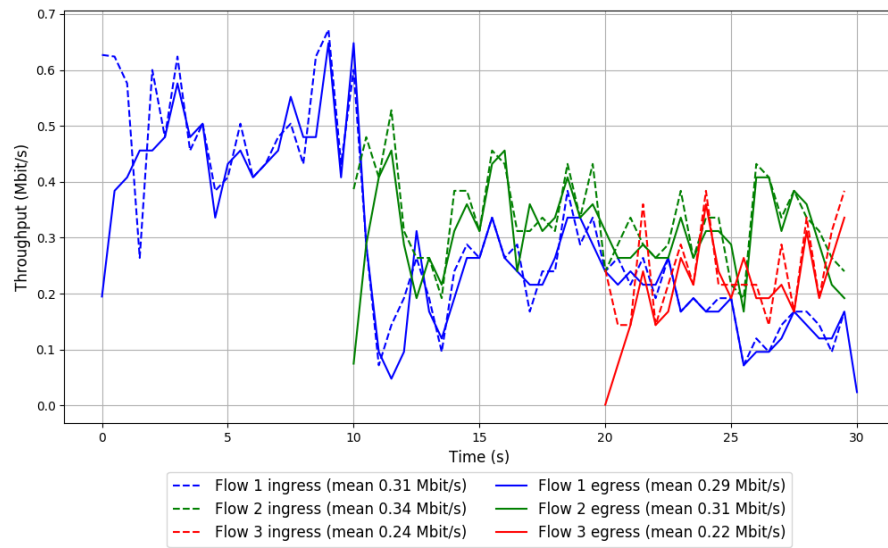


Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 08:44:22
End at: 2018-02-27 08:44:52
Local clock offset: 3.449 ms
Remote clock offset: -65.459 ms

Below is generated by plot.py at 2018-02-27 10:32:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 424.879 ms
Loss rate: 8.30%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 425.290 ms
Loss rate: 7.04%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 425.196 ms
Loss rate: 8.23%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 419.481 ms
Loss rate: 13.42%

Run 1: Report of TCP Cubic — Data Link

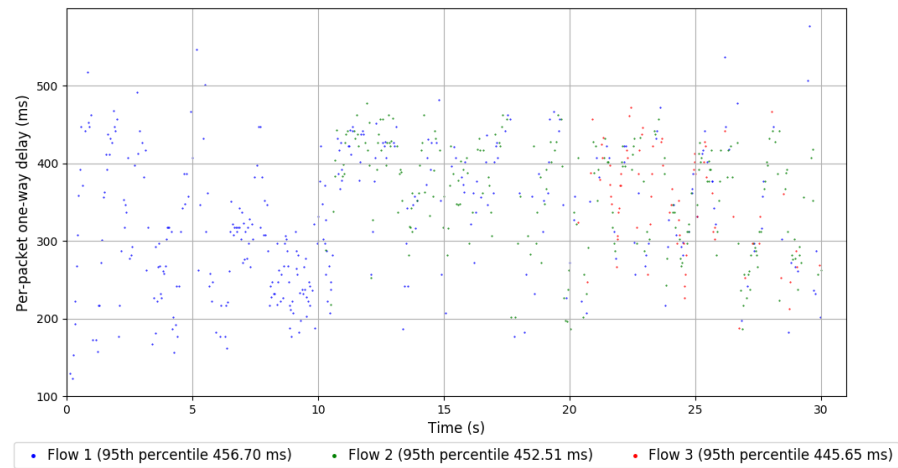
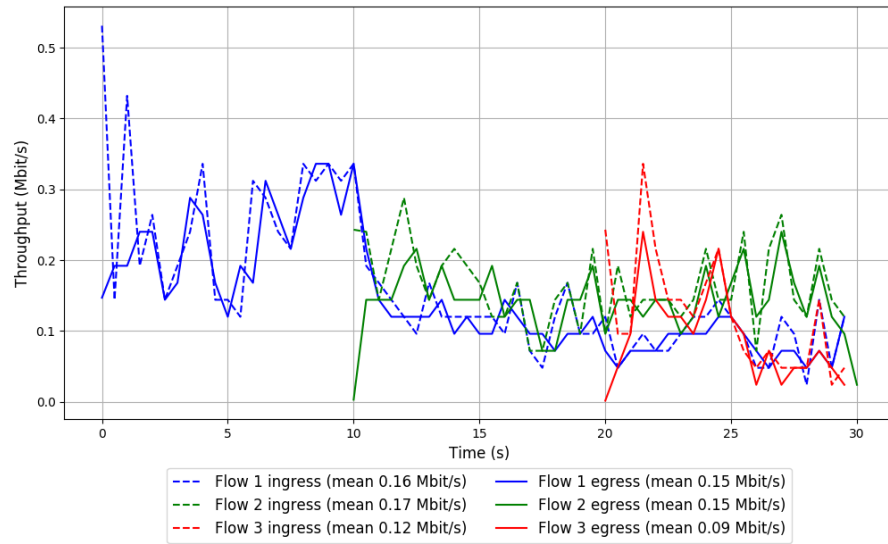


Run 2: Statistics of TCP Cubic

Start at: 2018-02-27 09:04:21
End at: 2018-02-27 09:04:51
Local clock offset: 6.015 ms
Remote clock offset: -67.379 ms

Below is generated by plot.py at 2018-02-27 10:32:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 456.699 ms
Loss rate: 13.18%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 456.699 ms
Loss rate: 10.59%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 452.508 ms
Loss rate: 12.08%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 445.647 ms
Loss rate: 26.44%

Run 2: Report of TCP Cubic — Data Link

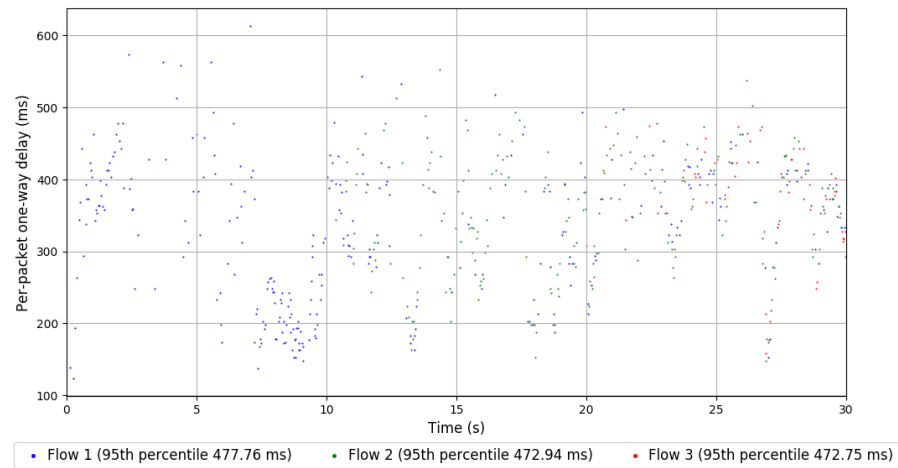
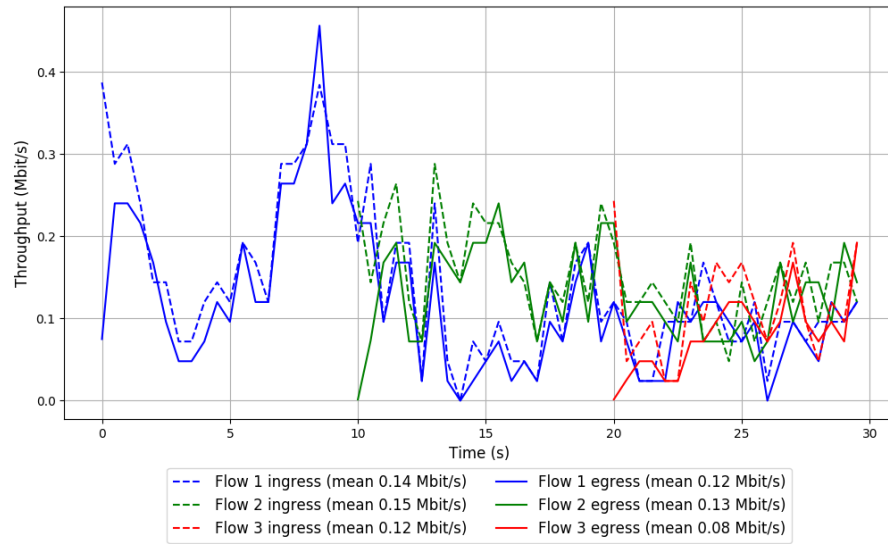


Run 3: Statistics of TCP Cubic

Start at: 2018-02-27 09:24:30
End at: 2018-02-27 09:25:00
Local clock offset: 1.997 ms
Remote clock offset: -68.858 ms

Below is generated by plot.py at 2018-02-27 10:32:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 472.941 ms
Loss rate: 17.77%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 477.765 ms
Loss rate: 16.10%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 472.941 ms
Loss rate: 15.74%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 472.751 ms
Loss rate: 29.44%

Run 3: Report of TCP Cubic — Data Link

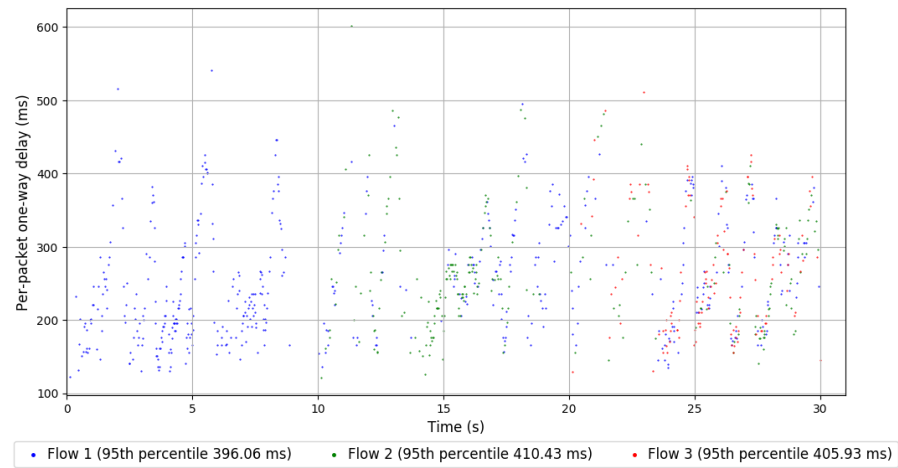
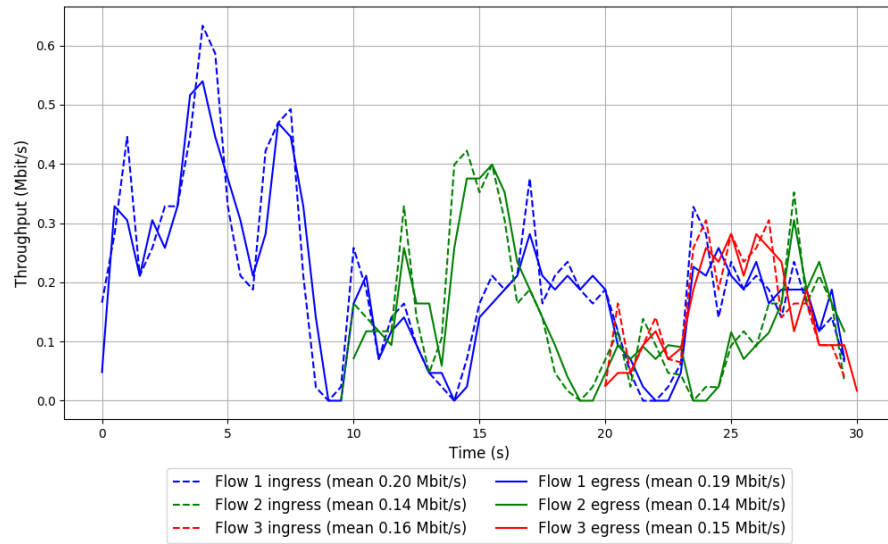


Run 1: Statistics of LEDBAT

Start at: 2018-02-27 08:35:29
End at: 2018-02-27 08:35:59
Local clock offset: 1.498 ms
Remote clock offset: -64.715 ms

Below is generated by plot.py at 2018-02-27 10:32:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 400.603 ms
Loss rate: 3.26%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 396.056 ms
Loss rate: 4.03%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 410.430 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 405.925 ms
Loss rate: 3.00%

Run 1: Report of LEDBAT — Data Link

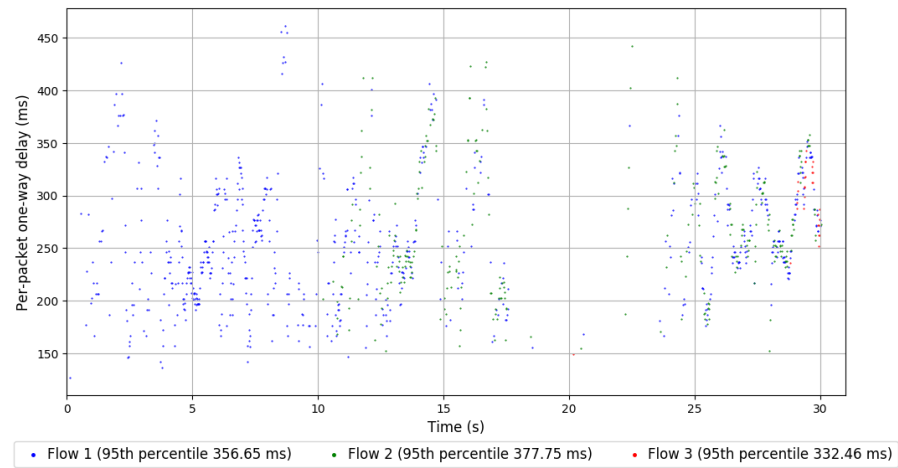
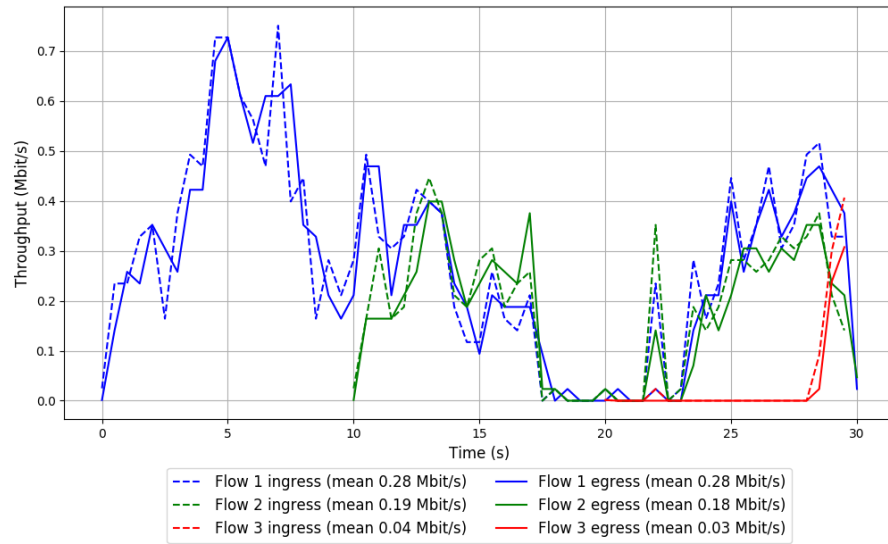


Run 2: Statistics of LEDBAT

Start at: 2018-02-27 08:55:29
End at: 2018-02-27 08:55:59
Local clock offset: -0.11 ms
Remote clock offset: -74.78 ms

Below is generated by plot.py at 2018-02-27 10:32:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 362.386 ms
Loss rate: 4.06%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 356.647 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 377.747 ms
Loss rate: 4.42%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 332.459 ms
Loss rate: 30.60%

Run 2: Report of LEDBAT — Data Link

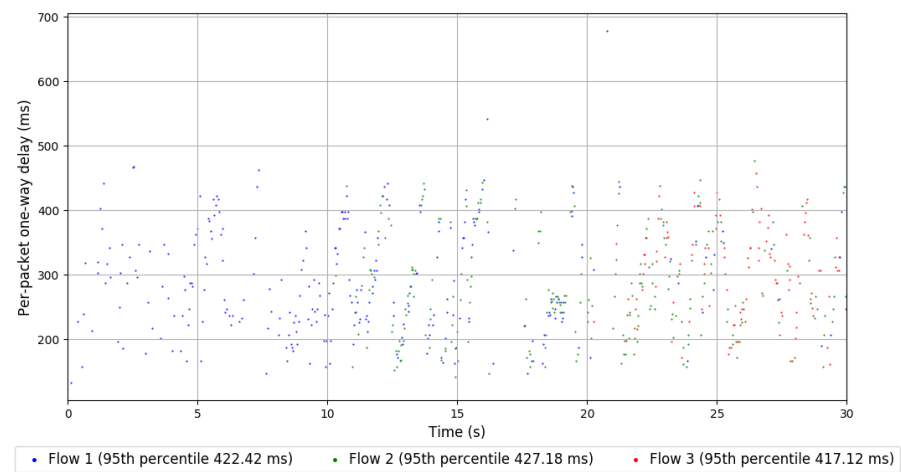
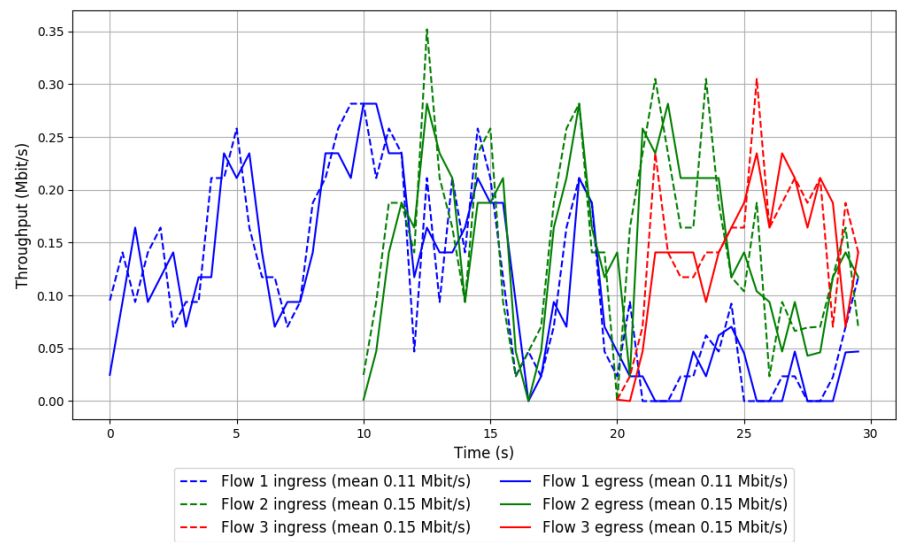


Run 3: Statistics of LEDBAT

Start at: 2018-02-27 09:15:35
End at: 2018-02-27 09:16:05
Local clock offset: 4.962 ms
Remote clock offset: -68.051 ms

Below is generated by plot.py at 2018-02-27 10:32:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 422.420 ms
Loss rate: 4.46%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 422.420 ms
Loss rate: 4.87%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 427.178 ms
Loss rate: 3.50%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 417.118 ms
Loss rate: 5.51%

Run 3: Report of LEDBAT — Data Link

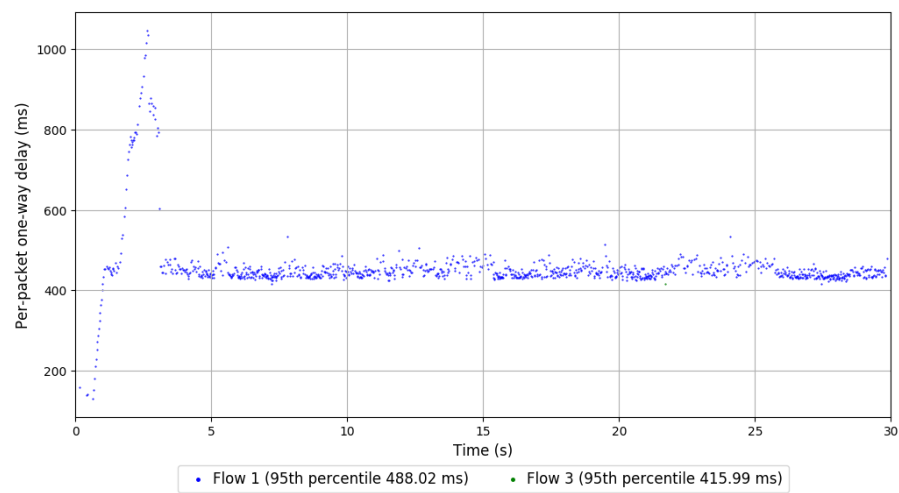
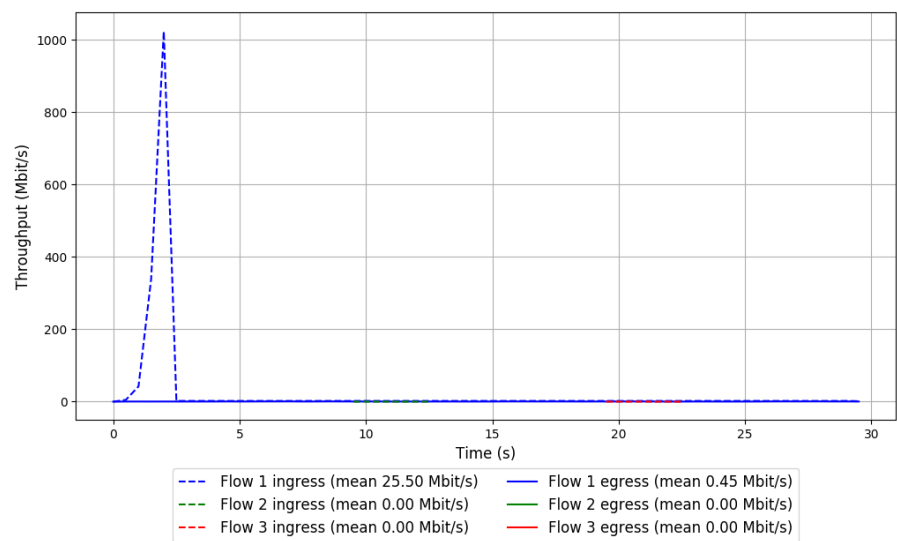


Run 1: Statistics of PCC

Start at: 2018-02-27 08:36:35
End at: 2018-02-27 08:37:05
Local clock offset: 2.97 ms
Remote clock offset: -73.648 ms

Below is generated by plot.py at 2018-02-27 10:32:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 488.022 ms
Loss rate: 98.23%
-- Flow 1:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 488.022 ms
Loss rate: 98.23%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 415.992 ms
Loss rate: 92.31%

Run 1: Report of PCC — Data Link

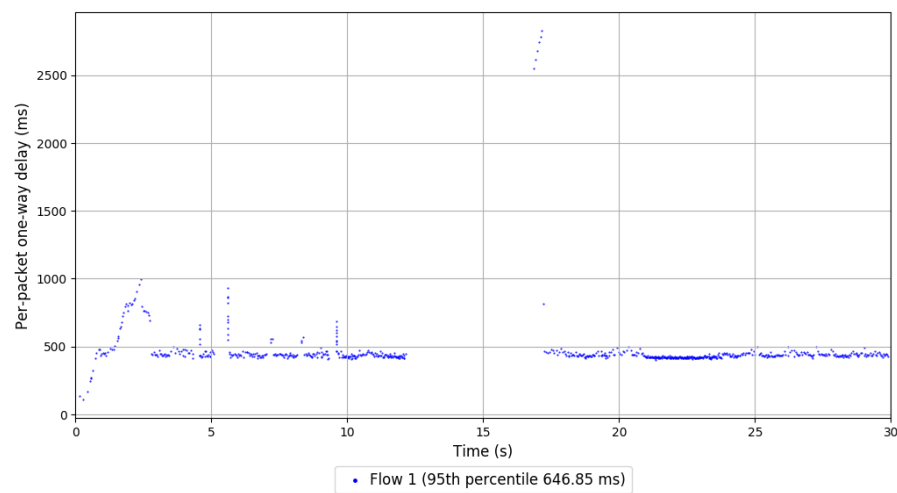
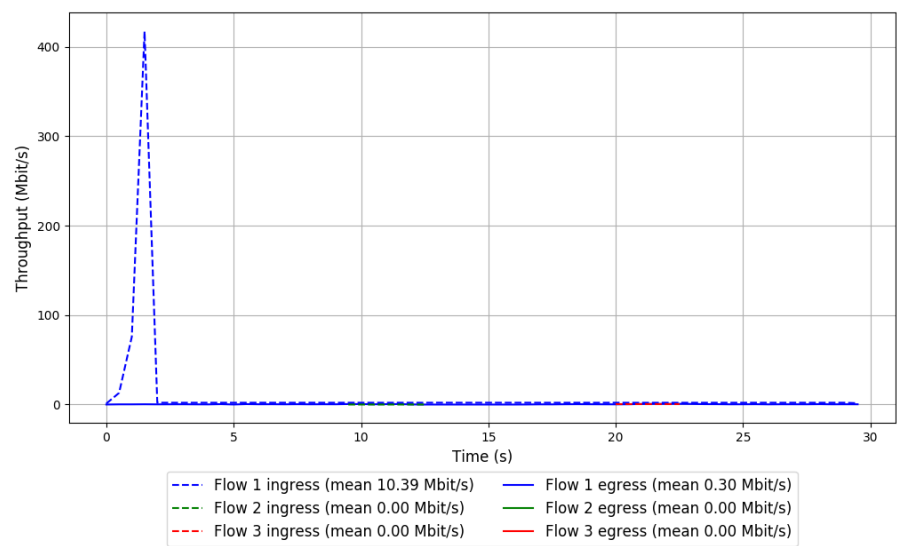


Run 2: Statistics of PCC

Start at: 2018-02-27 08:56:36
End at: 2018-02-27 08:57:06
Local clock offset: 1.657 ms
Remote clock offset: -63.664 ms

Below is generated by plot.py at 2018-02-27 10:32:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 646.849 ms
Loss rate: 97.12%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 646.849 ms
Loss rate: 97.12%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 2: Report of PCC — Data Link

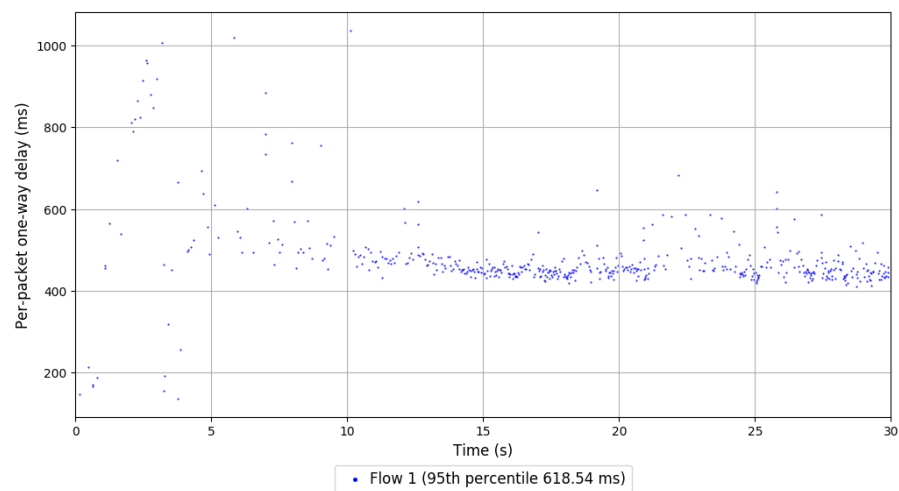
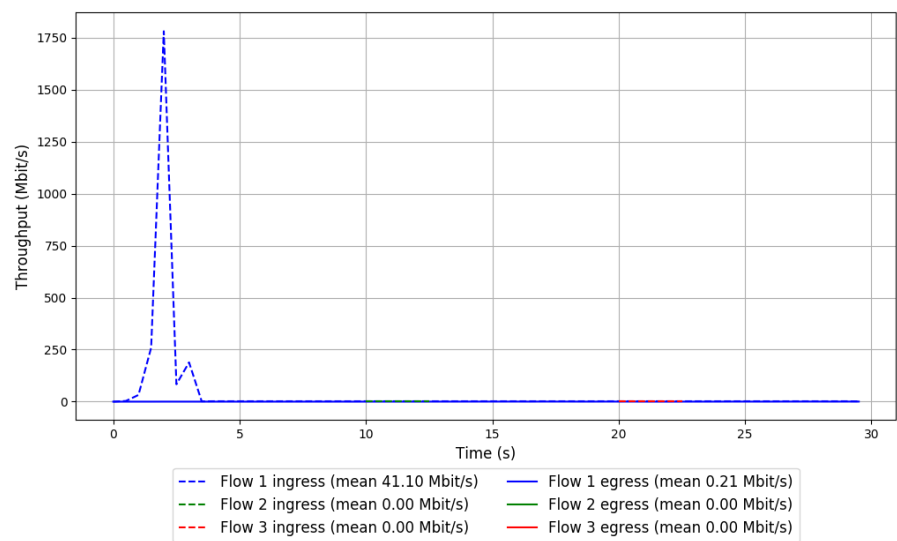


Run 3: Statistics of PCC

Start at: 2018-02-27 09:16:42
End at: 2018-02-27 09:17:12
Local clock offset: 2.042 ms
Remote clock offset: -75.88 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 618.541 ms
Loss rate: 99.49%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 618.541 ms
Loss rate: 99.49%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s

Run 3: Report of PCC — Data Link

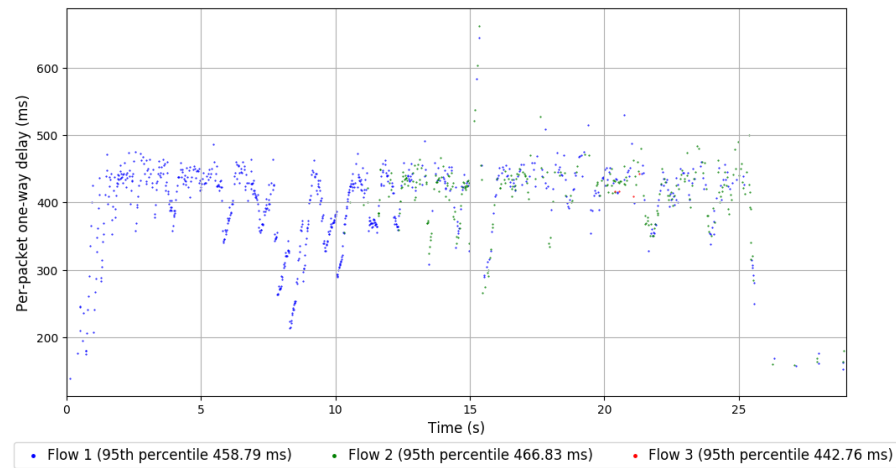
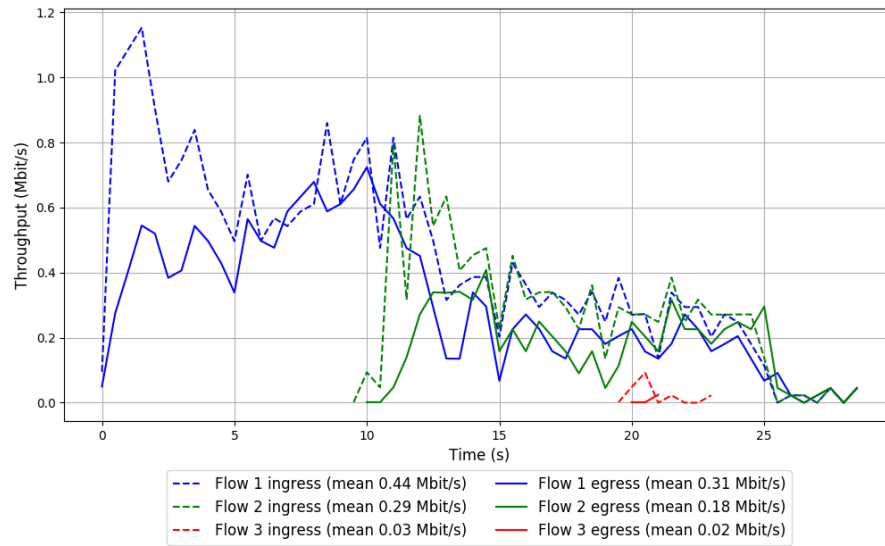


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-27 08:33:12
End at: 2018-02-27 08:33:42
Local clock offset: 6.024 ms
Remote clock offset: -72.503 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 459.894 ms
Loss rate: 32.60%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 458.791 ms
Loss rate: 29.29%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 466.830 ms
Loss rate: 39.45%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 442.757 ms
Loss rate: 85.47%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-27 08:53:14

End at: 2018-02-27 08:53:44

Local clock offset: 2.79 ms

Remote clock offset: -72.657 ms

Run 2: Report of QUIC Cubic — Data Link

Figure is missing

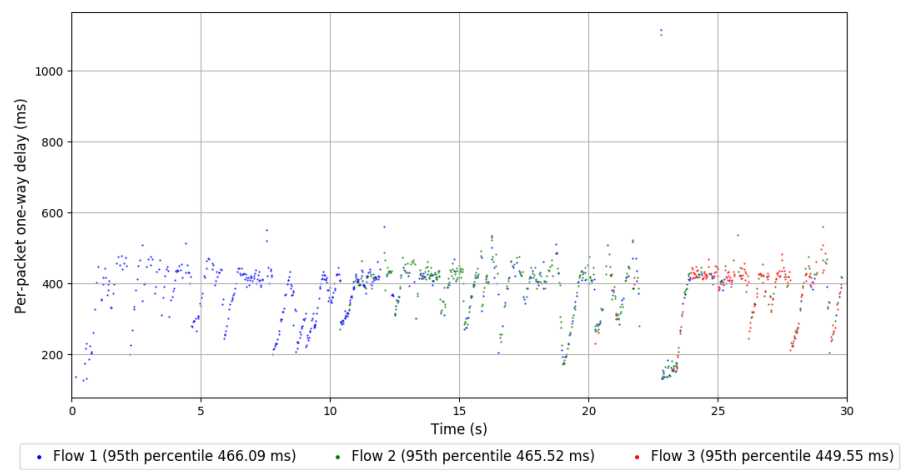
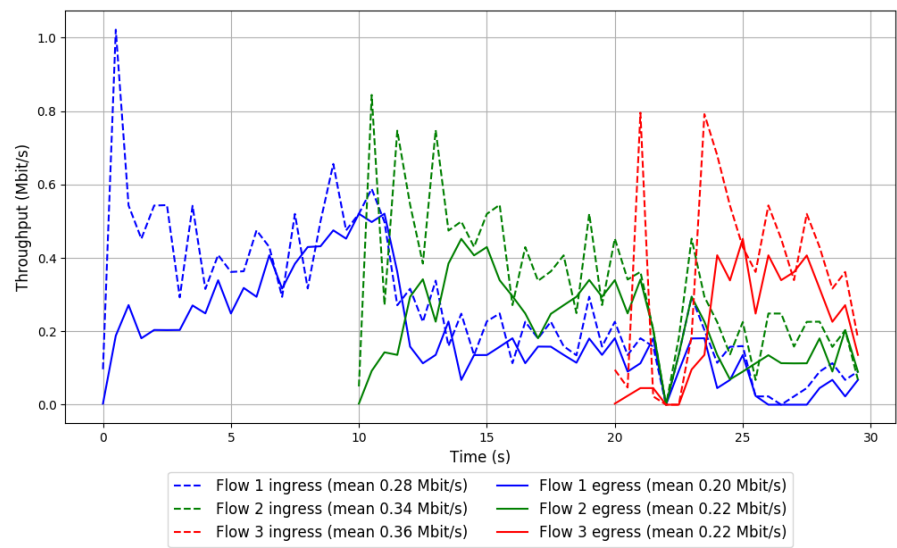
Figure is missing

Run 3: Statistics of QUIC Cubic

Start at: 2018-02-27 09:13:17
End at: 2018-02-27 09:13:47
Local clock offset: 3.0 ms
Remote clock offset: -67.962 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 464.641 ms
Loss rate: 34.07%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 466.090 ms
Loss rate: 30.55%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 465.517 ms
Loss rate: 35.35%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 449.546 ms
Loss rate: 39.96%

Run 3: Report of QUIC Cubic — Data Link

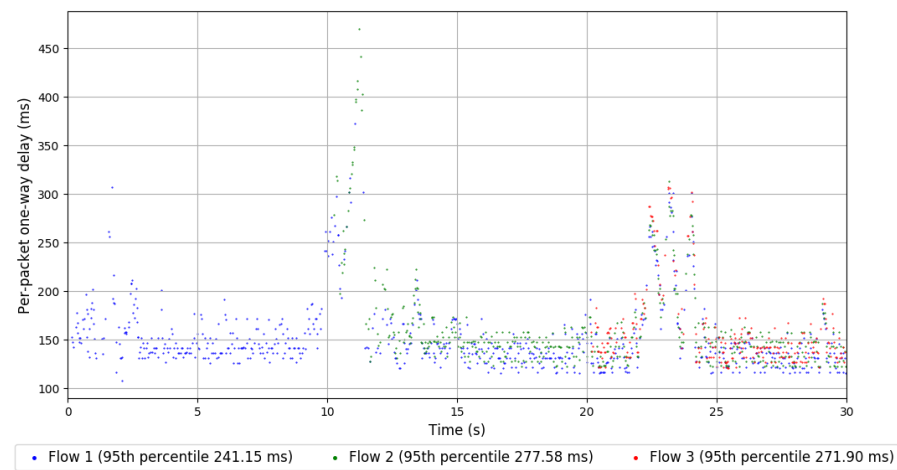
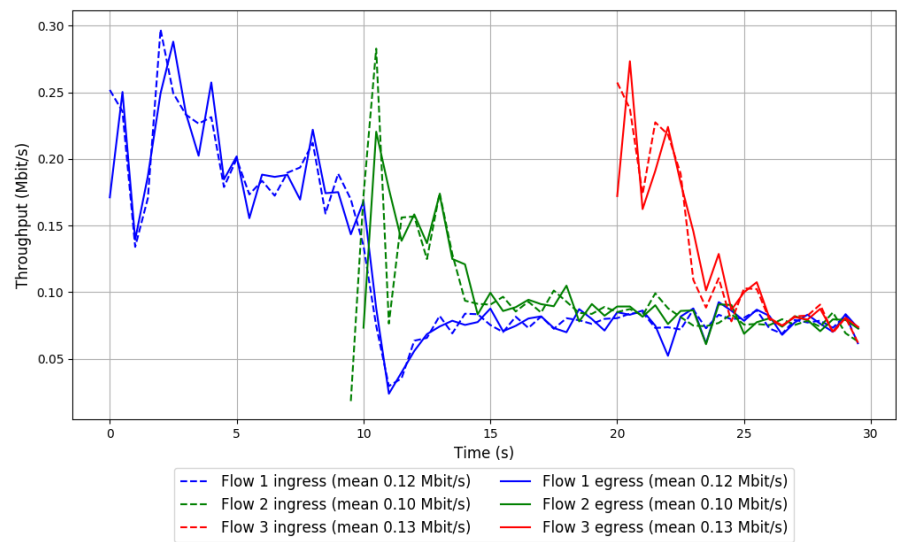


Run 1: Statistics of SCReAM

Start at: 2018-02-27 08:46:36
End at: 2018-02-27 08:47:06
Local clock offset: 3.123 ms
Remote clock offset: -63.75 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 261.087 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 241.152 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 277.582 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 271.901 ms
Loss rate: 0.48%

Run 1: Report of SReAM — Data Link

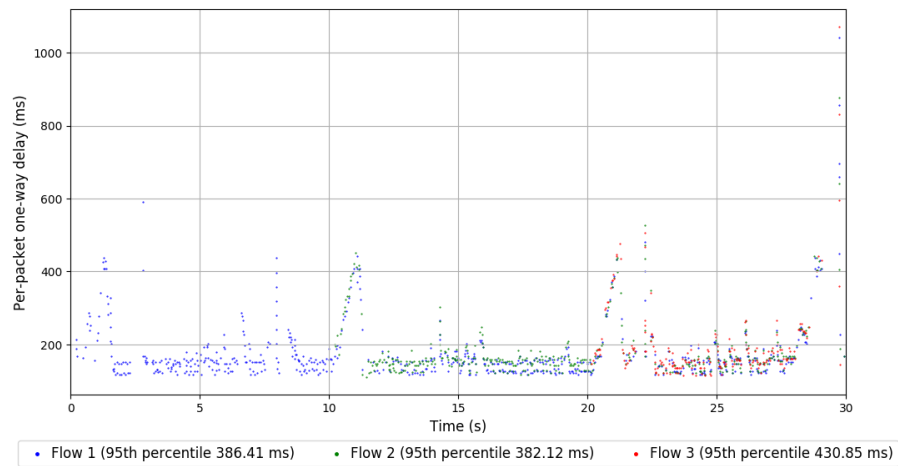
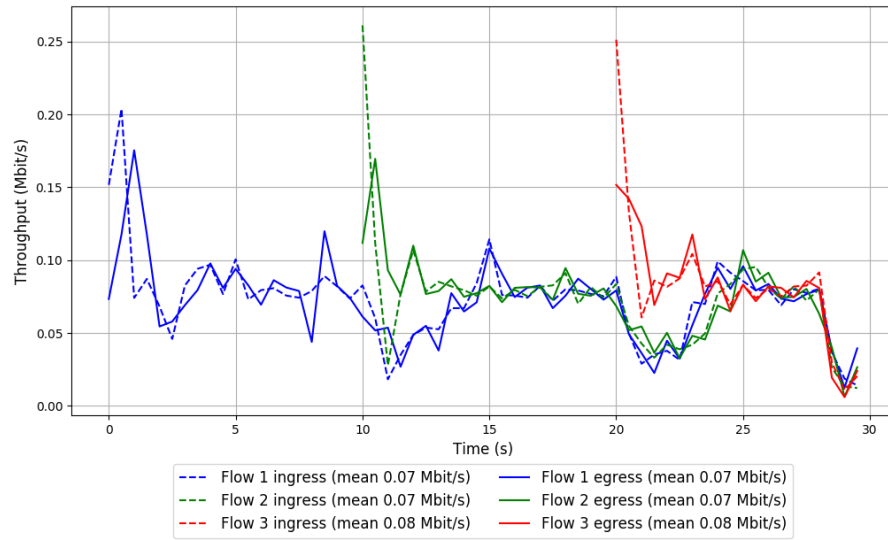


Run 2: Statistics of SCReAM

Start at: 2018-02-27 09:06:35
End at: 2018-02-27 09:07:05
Local clock offset: 5.175 ms
Remote clock offset: -63.912 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 387.006 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 386.413 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 382.116 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 430.850 ms
Loss rate: 3.22%

Run 2: Report of SReAM — Data Link

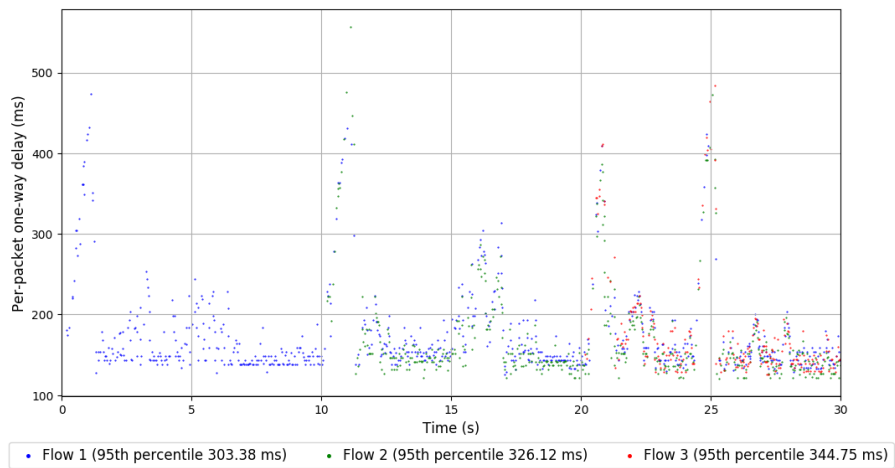
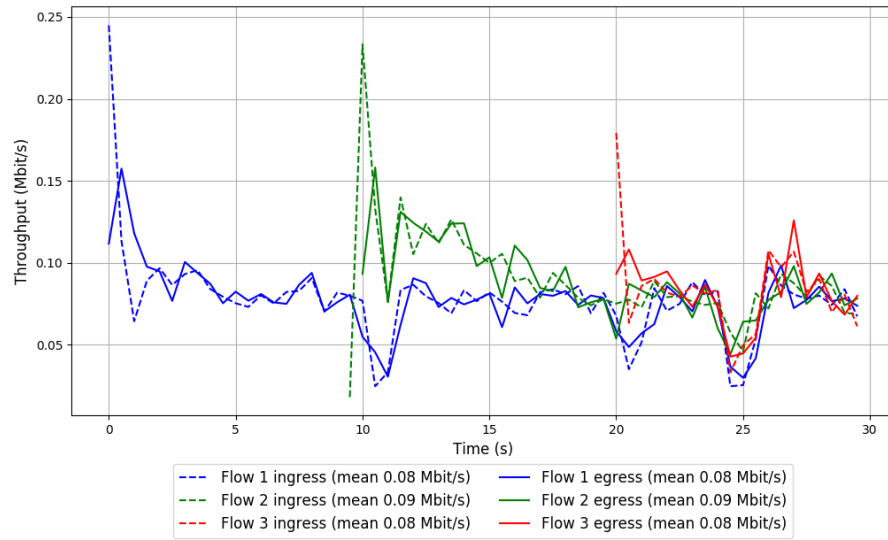


Run 3: Statistics of SCReAM

Start at: 2018-02-27 09:26:44
End at: 2018-02-27 09:27:14
Local clock offset: 1.165 ms
Remote clock offset: -74.389 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 323.796 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 303.384 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 326.124 ms
Loss rate: 3.45%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 344.754 ms
Loss rate: 1.39%

Run 3: Report of SReAM — Data Link

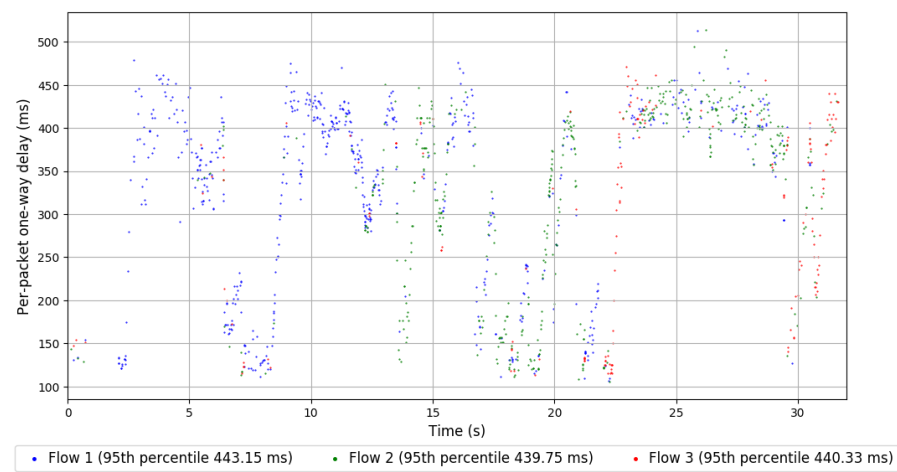
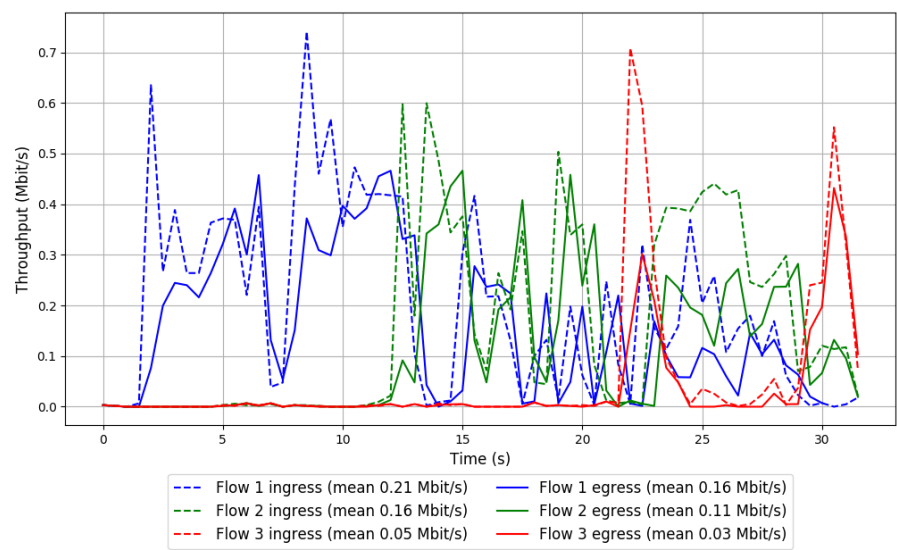


Run 1: Statistics of WebRTC media

Start at: 2018-02-27 08:48:48
End at: 2018-02-27 08:49:18
Local clock offset: 1.433 ms
Remote clock offset: -65.02 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 441.748 ms
Loss rate: 27.05%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 443.152 ms
Loss rate: 23.75%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 439.746 ms
Loss rate: 27.52%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 440.333 ms
Loss rate: 38.18%

Run 1: Report of WebRTC media — Data Link

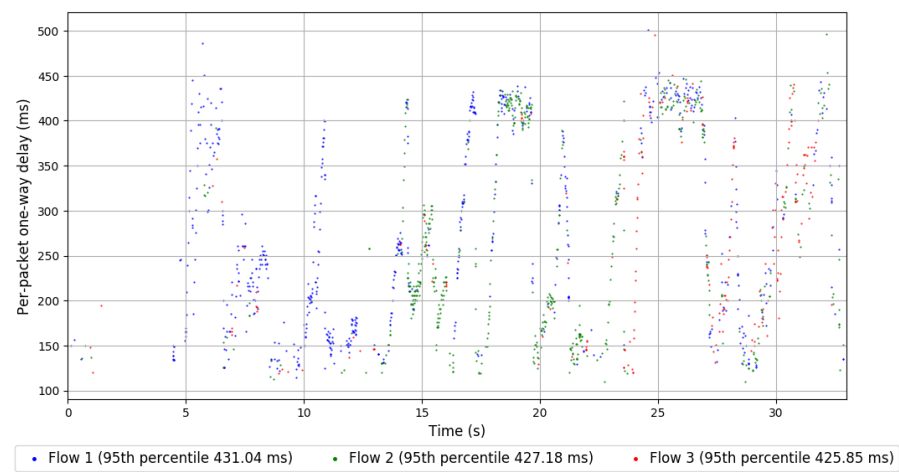
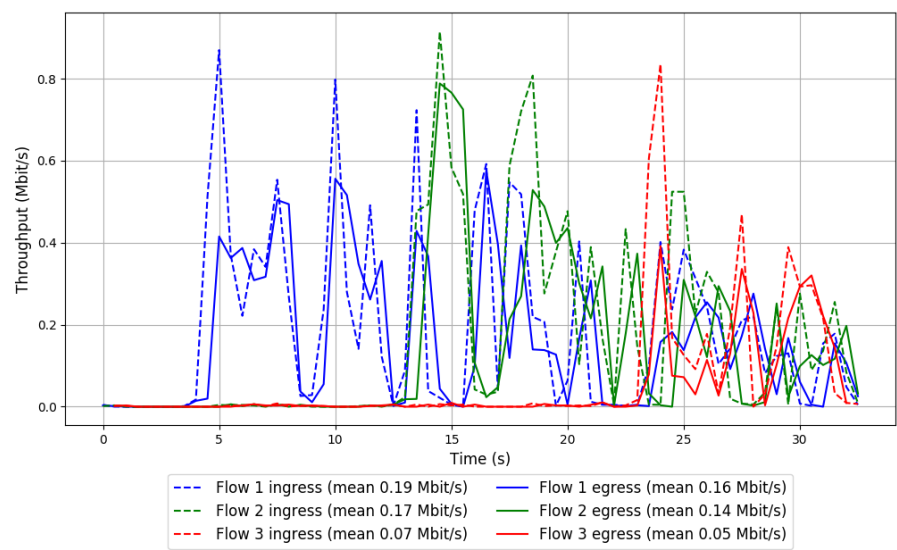


Run 2: Statistics of WebRTC media

Start at: 2018-02-27 09:08:49
End at: 2018-02-27 09:09:19
Local clock offset: 5.325 ms
Remote clock offset: -67.733 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 428.642 ms
Loss rate: 18.76%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 431.035 ms
Loss rate: 15.90%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 427.182 ms
Loss rate: 17.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 425.850 ms
Loss rate: 31.79%

Run 2: Report of WebRTC media — Data Link

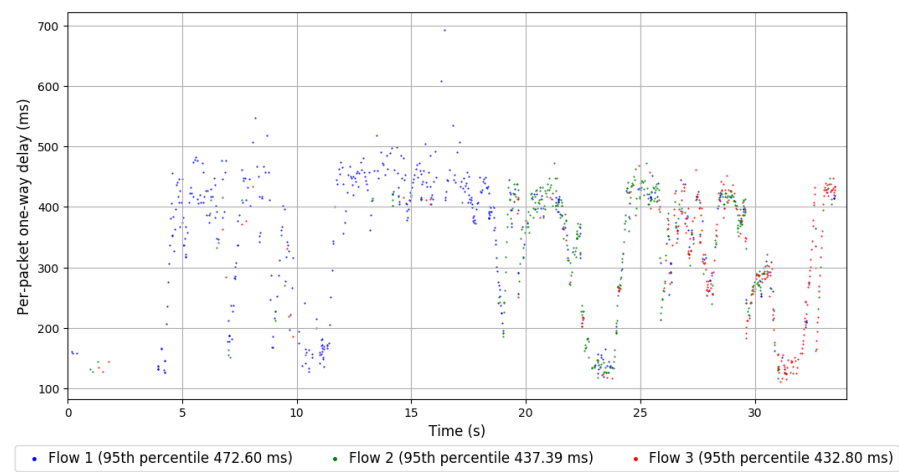
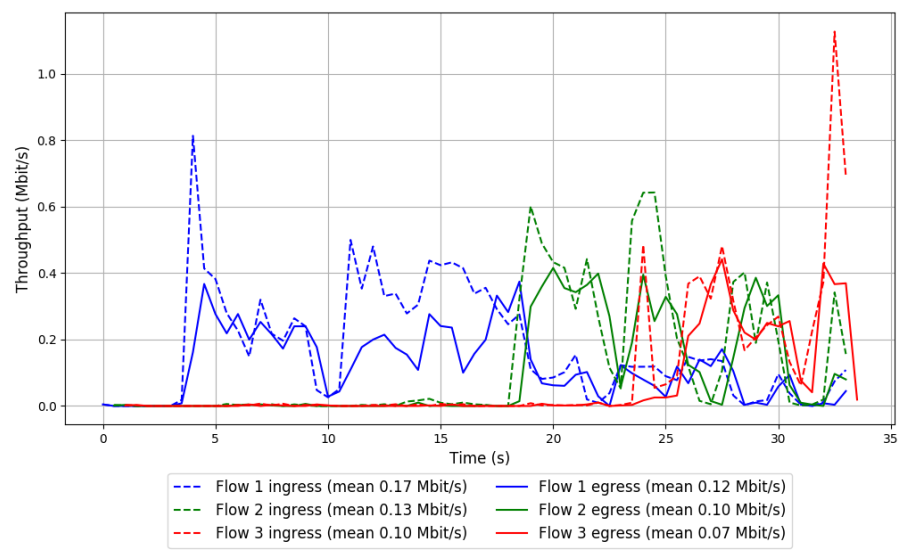


Run 3: Statistics of WebRTC media

Start at: 2018-02-27 09:28:58
End at: 2018-02-27 09:29:28
Local clock offset: 1.182 ms
Remote clock offset: -75.331 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 456.303 ms
Loss rate: 28.75%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 472.597 ms
Loss rate: 30.32%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 437.394 ms
Loss rate: 23.91%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 432.801 ms
Loss rate: 32.30%

Run 3: Report of WebRTC media — Data Link

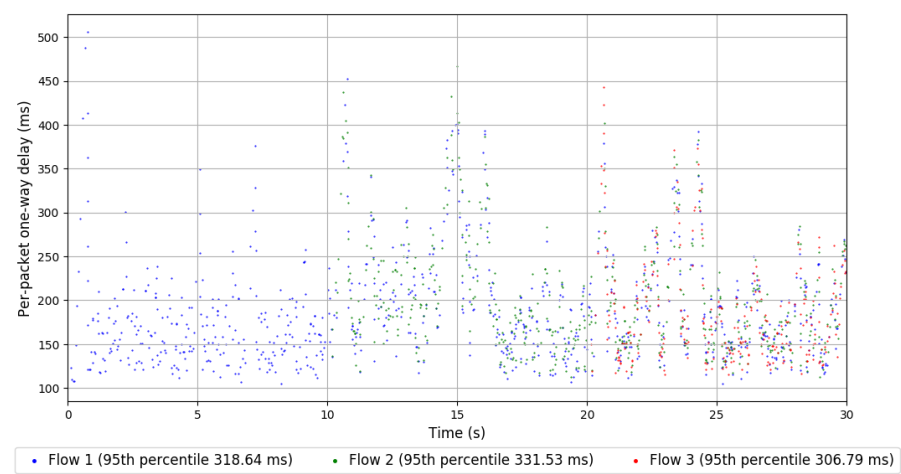
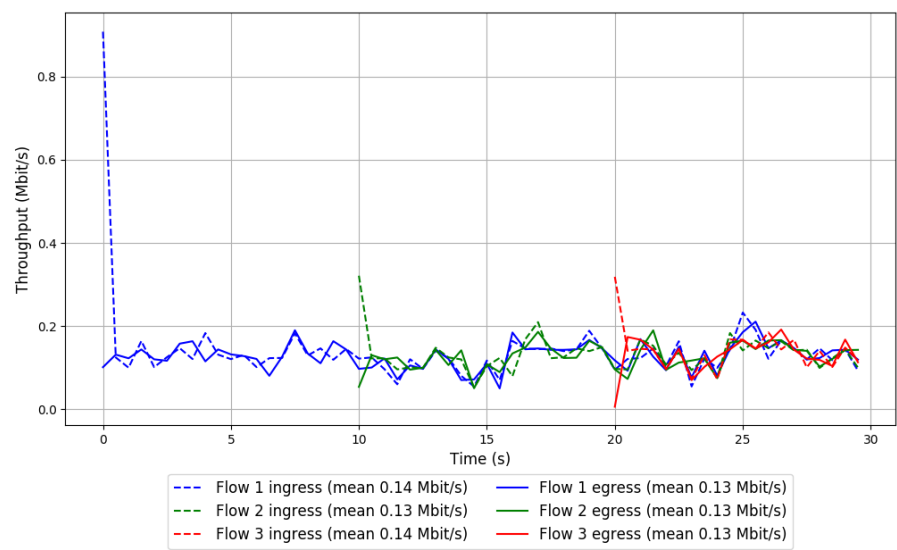


Run 1: Statistics of Sprout

Start at: 2018-02-27 08:32:05
End at: 2018-02-27 08:32:35
Local clock offset: 1.321 ms
Remote clock offset: -64.243 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 325.317 ms
Loss rate: 7.46%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 318.641 ms
Loss rate: 9.21%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 331.531 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 306.794 ms
Loss rate: 8.41%

Run 1: Report of Sprout — Data Link

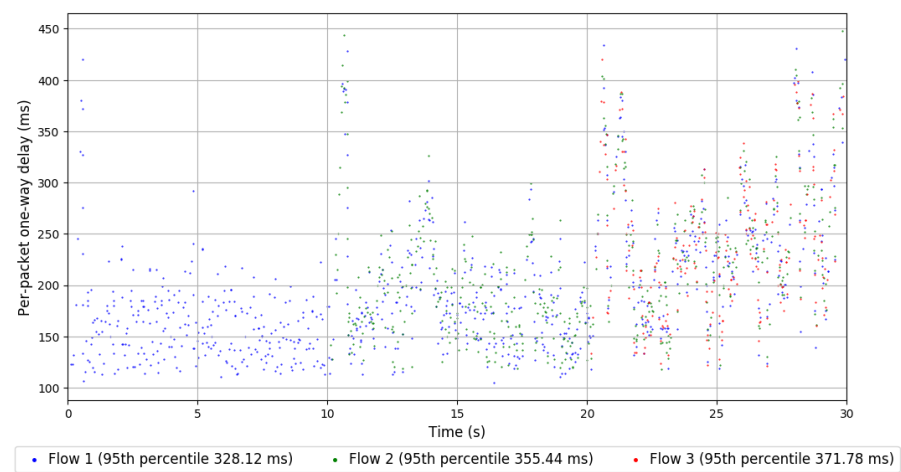
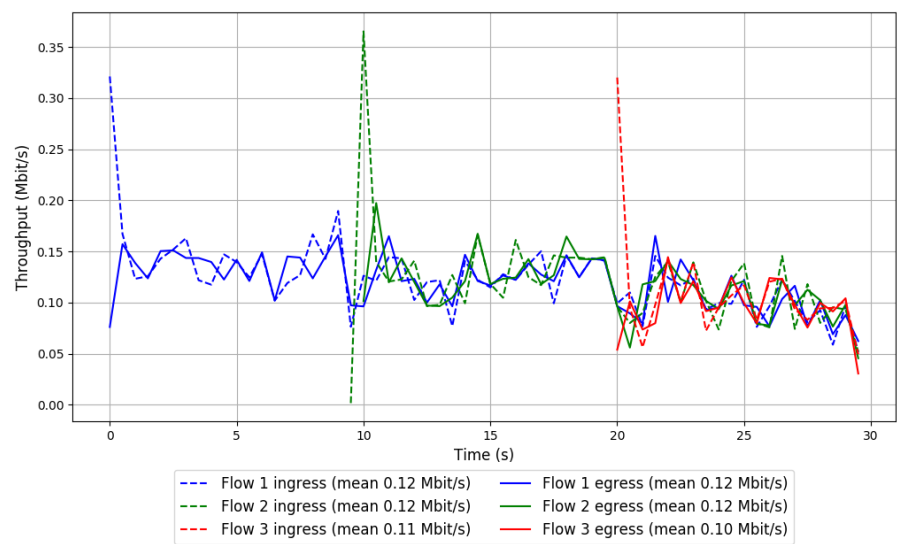


Run 2: Statistics of Sprout

Start at: 2018-02-27 08:52:08
End at: 2018-02-27 08:52:38
Local clock offset: 1.057 ms
Remote clock offset: -65.447 ms

```
# Below is generated by plot.py at 2018-02-27 10:32:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 346.895 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 328.115 ms
Loss rate: 3.01%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 355.444 ms
Loss rate: 4.40%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 371.783 ms
Loss rate: 12.69%
```

Run 2: Report of Sprout — Data Link

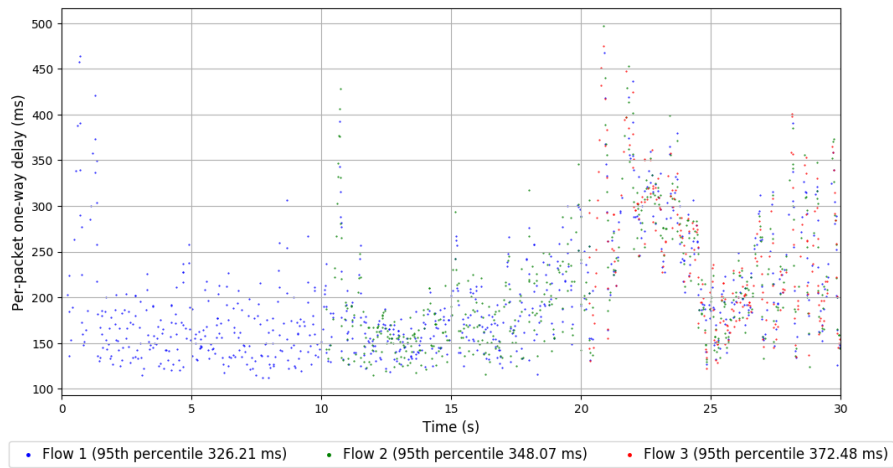
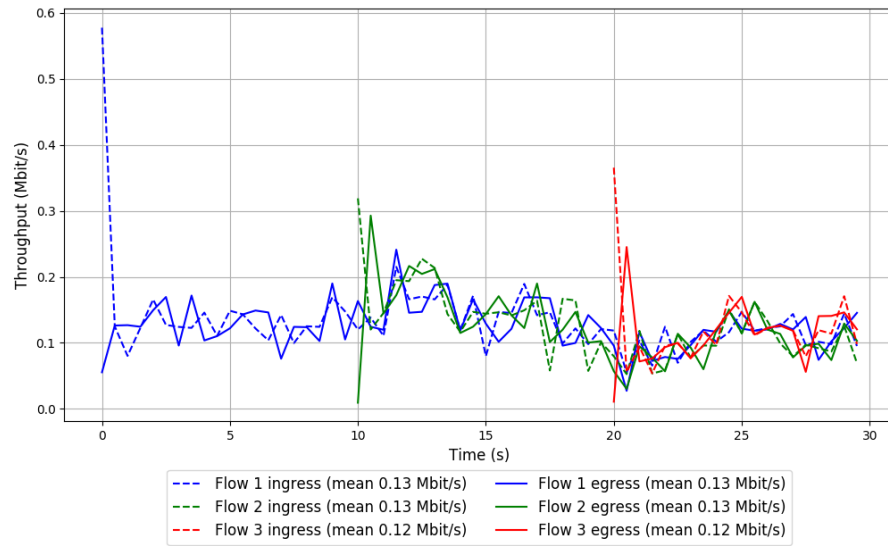


Run 3: Statistics of Sprout

Start at: 2018-02-27 09:12:10
End at: 2018-02-27 09:12:40
Local clock offset: -0.79 ms
Remote clock offset: -72.807 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 348.069 ms
Loss rate: 4.78%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 326.207 ms
Loss rate: 5.86%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 348.069 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 372.475 ms
Loss rate: 5.86%

Run 3: Report of Sprout — Data Link

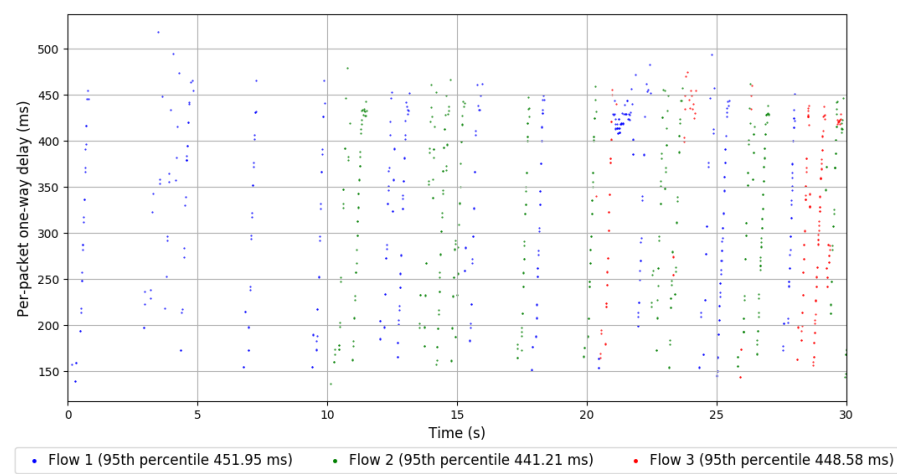
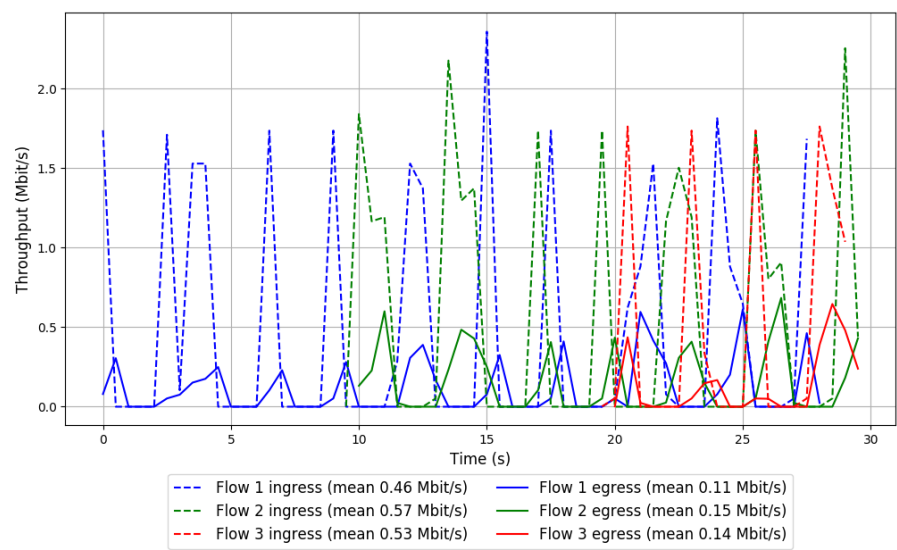


Run 1: Statistics of TaoVA-100x

Start at: 2018-02-27 08:39:56
End at: 2018-02-27 08:40:26
Local clock offset: 3.946 ms
Remote clock offset: -67.059 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 445.996 ms
Loss rate: 74.29%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 451.954 ms
Loss rate: 75.79%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 441.213 ms
Loss rate: 73.26%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 448.583 ms
Loss rate: 72.73%

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

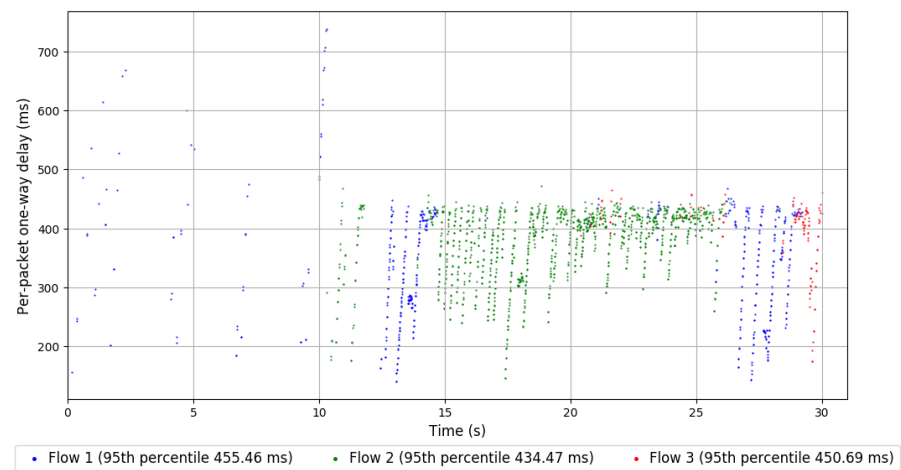
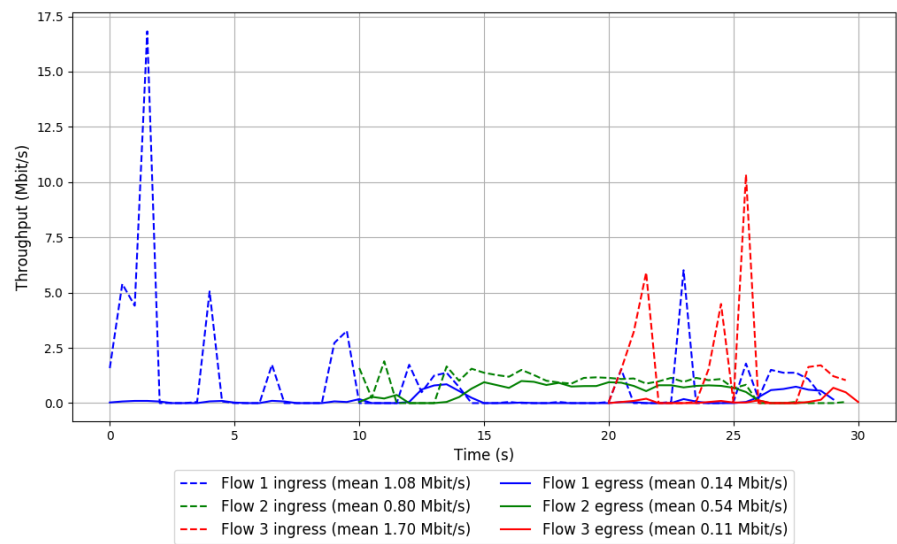


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-27 08:59:55
End at: 2018-02-27 09:00:25
Local clock offset: 2.412 ms
Remote clock offset: -73.162 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 437.470 ms
Loss rate: 76.49%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 455.464 ms
Loss rate: 86.88%
-- Flow 2:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 434.469 ms
Loss rate: 38.65%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 450.695 ms
Loss rate: 93.57%

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

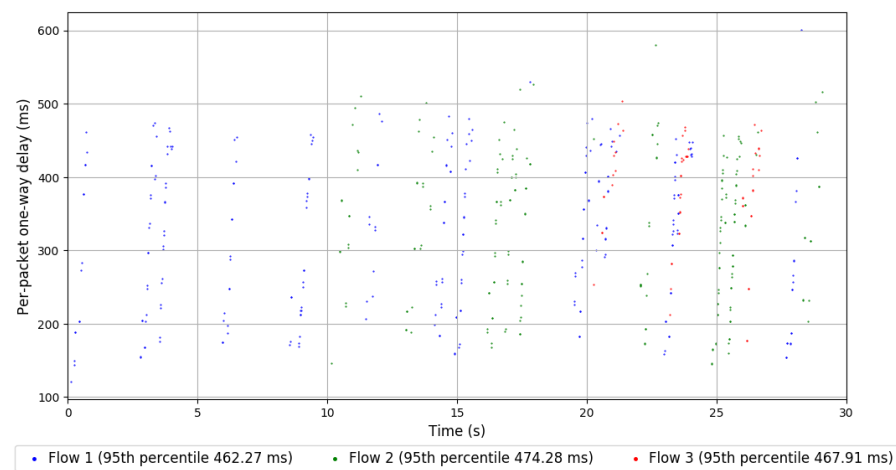
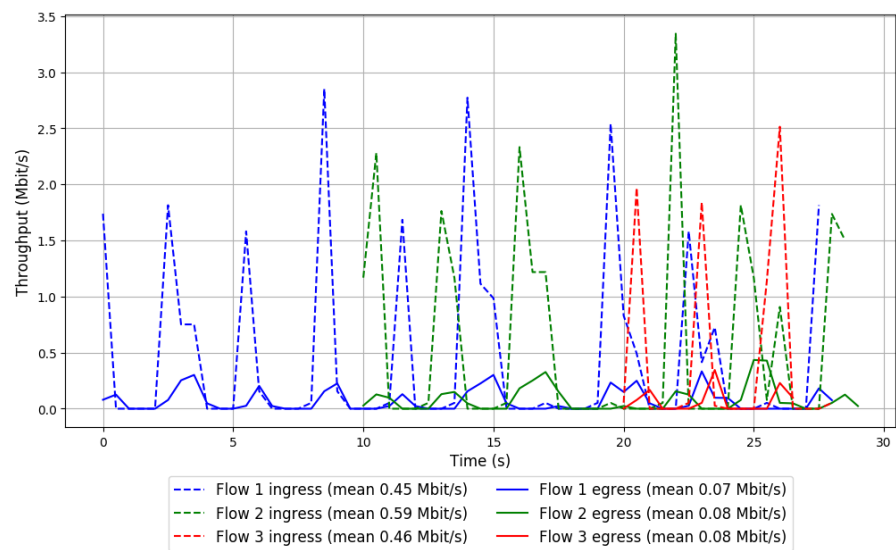


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-27 09:20:04
End at: 2018-02-27 09:20:34
Local clock offset: 1.828 ms
Remote clock offset: -67.746 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 467.910 ms
Loss rate: 85.44%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 462.272 ms
Loss rate: 84.28%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 474.284 ms
Loss rate: 86.13%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 467.910 ms
Loss rate: 87.30%

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

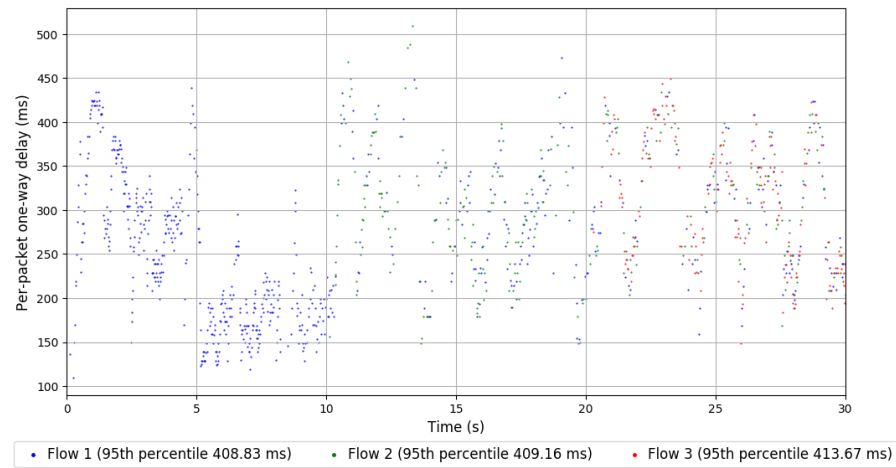
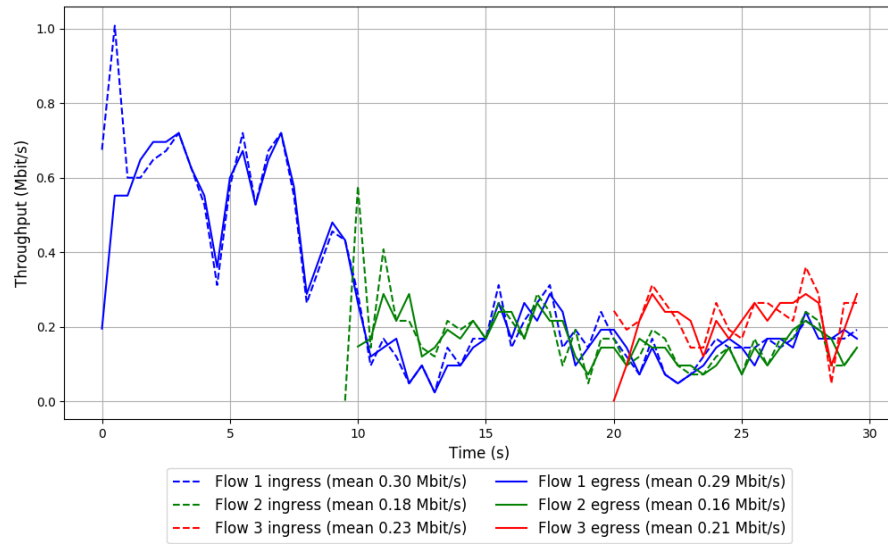


Run 1: Statistics of TCP Vegas

Start at: 2018-02-27 08:38:49
End at: 2018-02-27 08:39:19
Local clock offset: 1.209 ms
Remote clock offset: -63.792 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 409.396 ms
Loss rate: 6.43%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 408.834 ms
Loss rate: 5.23%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 409.159 ms
Loss rate: 7.87%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 413.667 ms
Loss rate: 8.94%

Run 1: Report of TCP Vegas — Data Link

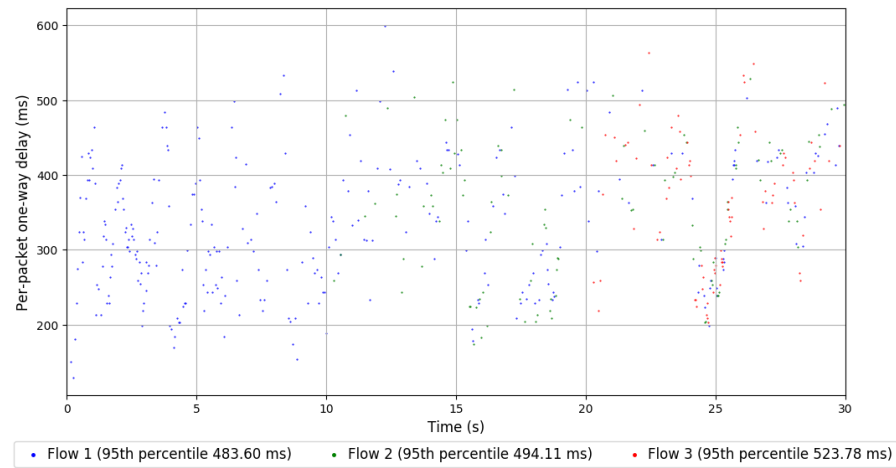
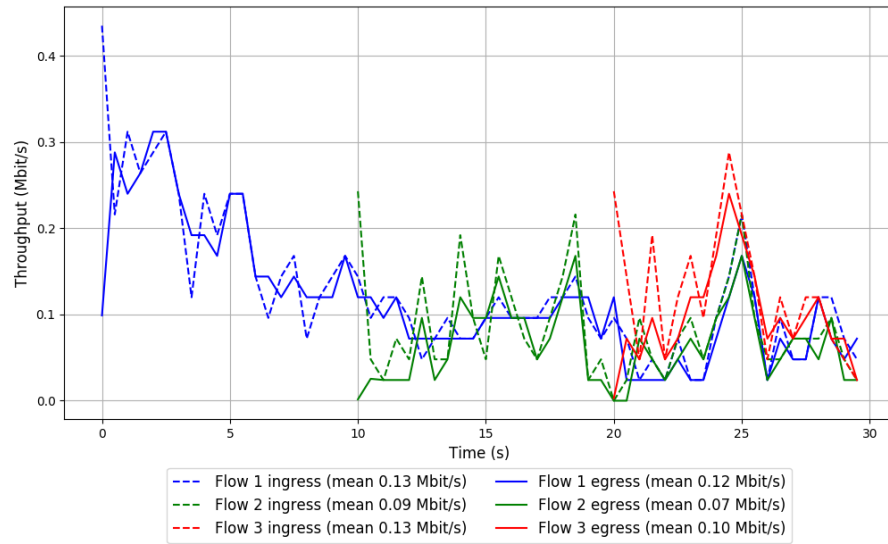


Run 2: Statistics of TCP Vegas

Start at: 2018-02-27 08:58:49
End at: 2018-02-27 08:59:19
Local clock offset: -0.136 ms
Remote clock offset: -68.052 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 494.110 ms
Loss rate: 14.83%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 483.599 ms
Loss rate: 8.12%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 494.110 ms
Loss rate: 24.09%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 523.779 ms
Loss rate: 22.83%

Run 2: Report of TCP Vegas — Data Link

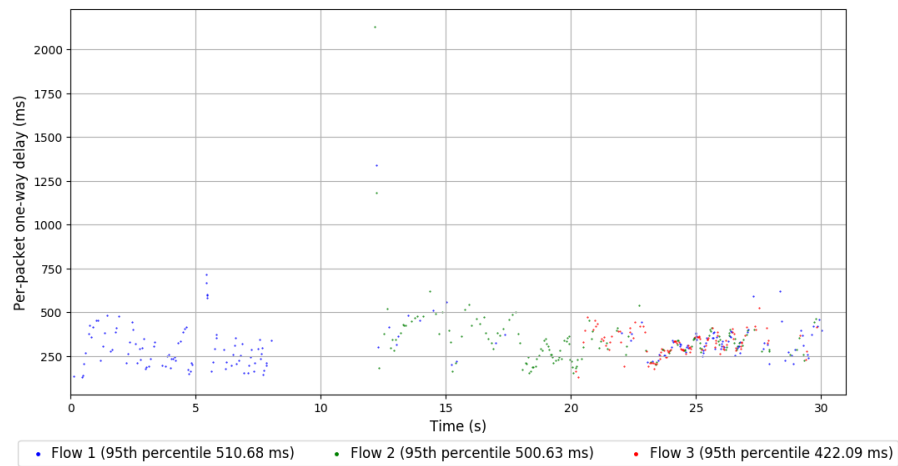
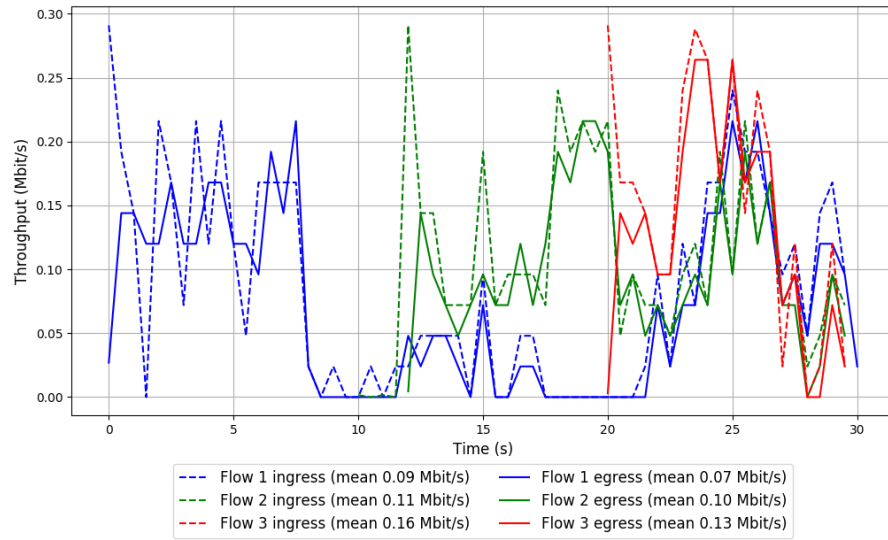


Run 3: Statistics of TCP Vegas

Start at: 2018-02-27 09:18:58
End at: 2018-02-27 09:19:28
Local clock offset: 2.3 ms
Remote clock offset: -65.015 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 481.193 ms
Loss rate: 15.41%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 510.678 ms
Loss rate: 14.14%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 500.630 ms
Loss rate: 16.21%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 422.092 ms
Loss rate: 16.39%

Run 3: Report of TCP Vegas — Data Link

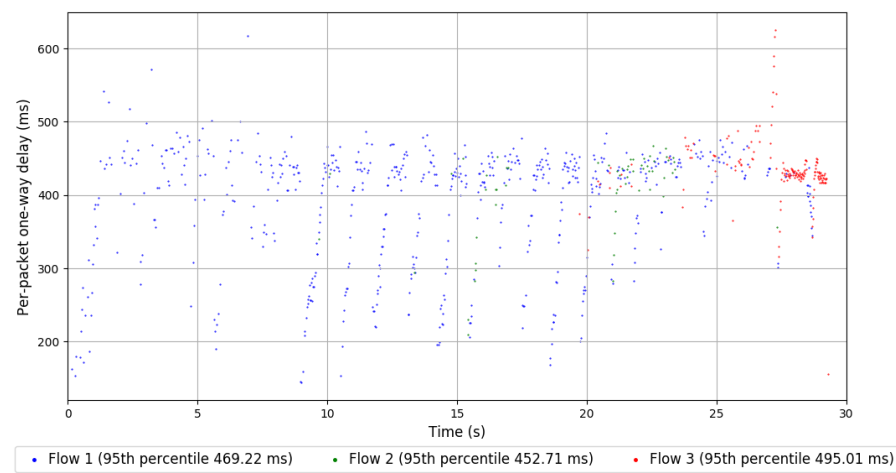
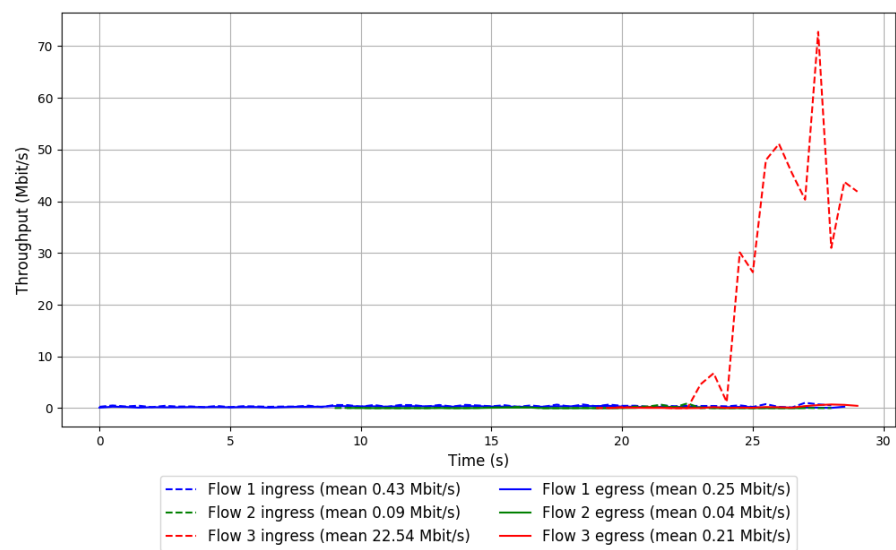


Run 1: Statistics of Verus

Start at: 2018-02-27 08:49:54
End at: 2018-02-27 08:50:24
Local clock offset: 4.125 ms
Remote clock offset: -68.08 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 473.183 ms
Loss rate: 95.84%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 469.220 ms
Loss rate: 42.28%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 452.708 ms
Loss rate: 61.18%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 495.012 ms
Loss rate: 99.10%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

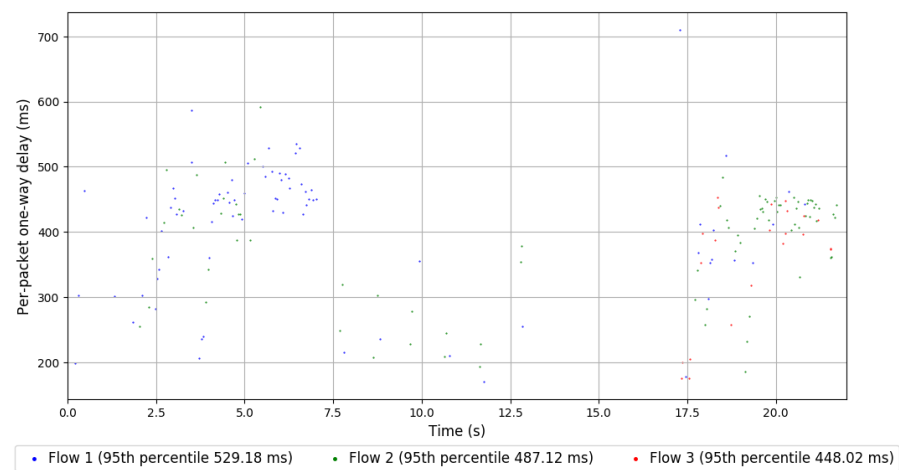
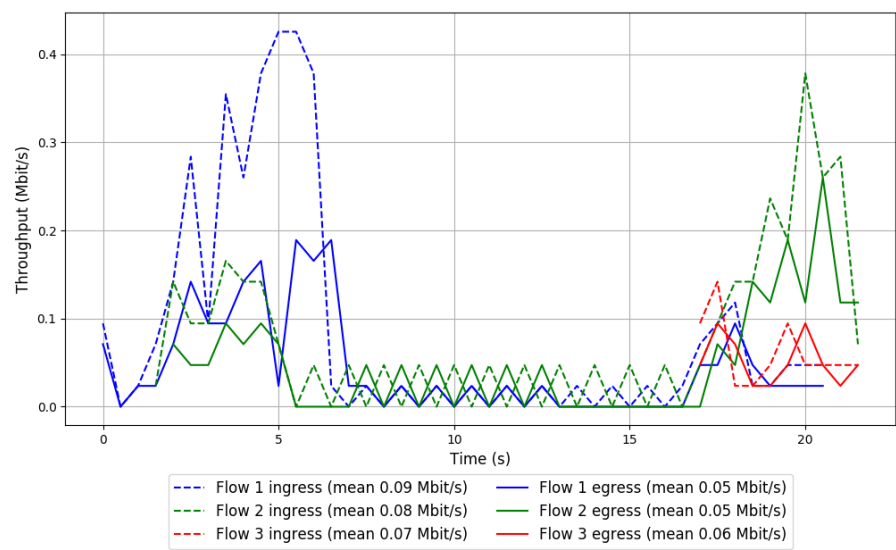
Start at: 2018-02-27 09:09:55

End at: 2018-02-27 09:10:25

Local clock offset: -0.354 ms

Remote clock offset: -75.95 ms

Run 2: Report of Verus — Data Link

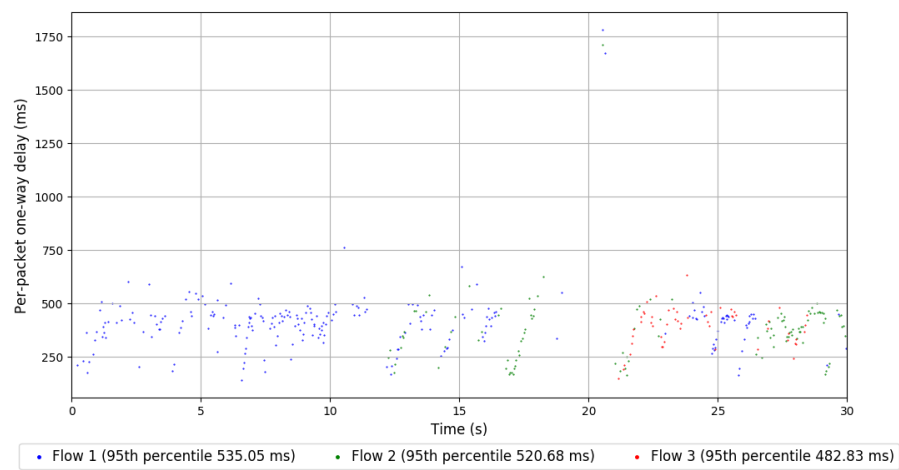
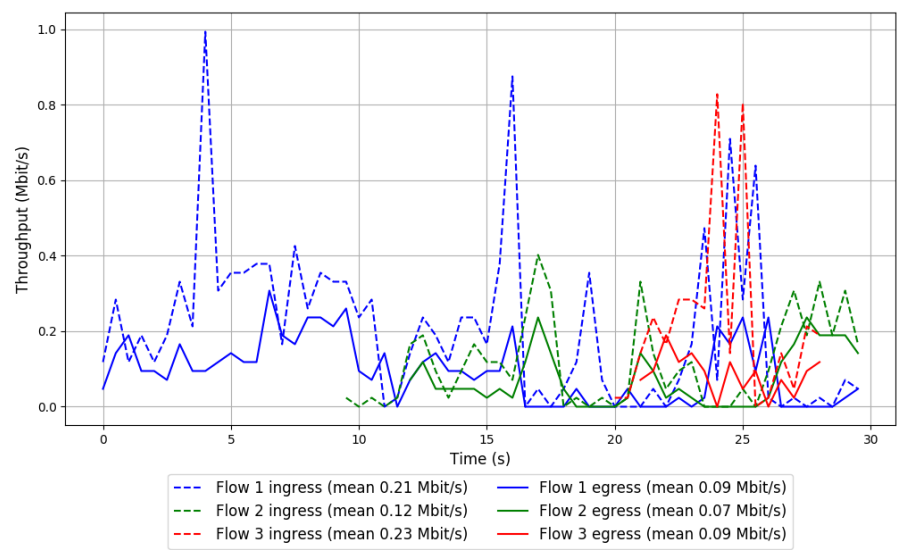


Run 3: Statistics of Verus

Start at: 2018-02-27 09:30:04
End at: 2018-02-27 09:30:34
Local clock offset: 1.167 ms
Remote clock offset: -73.531 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 529.381 ms
Loss rate: 55.21%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 535.051 ms
Loss rate: 55.91%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 520.682 ms
Loss rate: 44.22%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 482.833 ms
Loss rate: 66.46%

Run 3: Report of Verus — Data Link

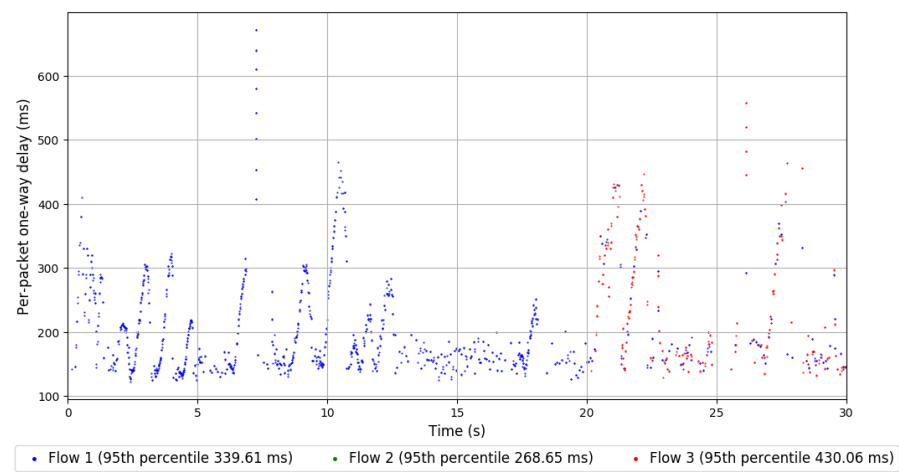
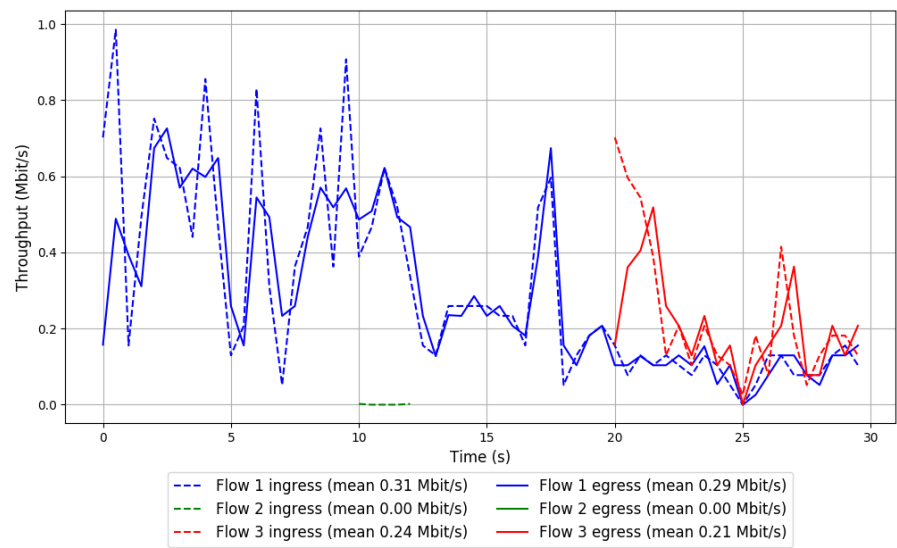


Run 1: Statistics of Copa

Start at: 2018-02-27 08:45:30
End at: 2018-02-27 08:46:00
Local clock offset: 1.606 ms
Remote clock offset: -67.375 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 379.612 ms
Loss rate: 6.65%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 339.613 ms
Loss rate: 5.03%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 268.646 ms
Loss rate: 50.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 430.055 ms
Loss rate: 13.03%

Run 1: Report of Copa — Data Link

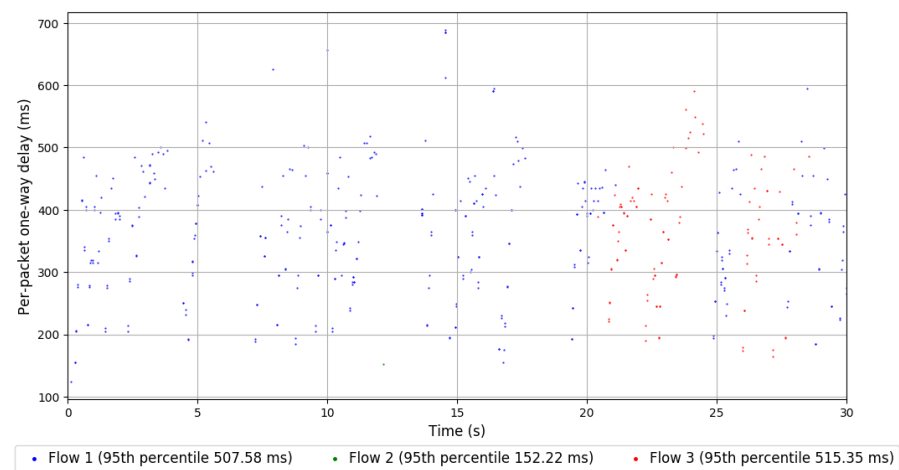
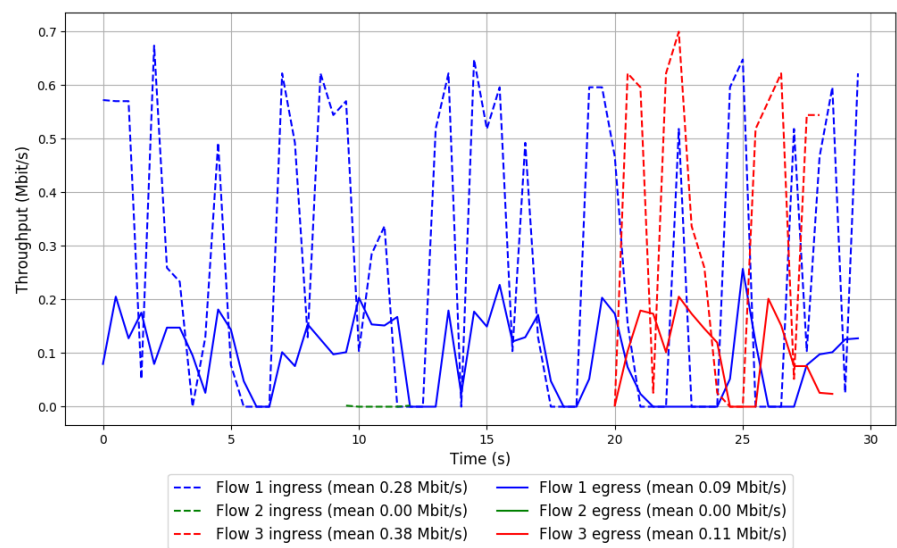


Run 2: Statistics of Copa

Start at: 2018-02-27 09:05:27
End at: 2018-02-27 09:05:57
Local clock offset: -0.09 ms
Remote clock offset: -66.844 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 509.985 ms
Loss rate: 68.31%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 507.581 ms
Loss rate: 67.39%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 152.221 ms
Loss rate: 50.00%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 515.346 ms
Loss rate: 70.89%

Run 2: Report of Copa — Data Link

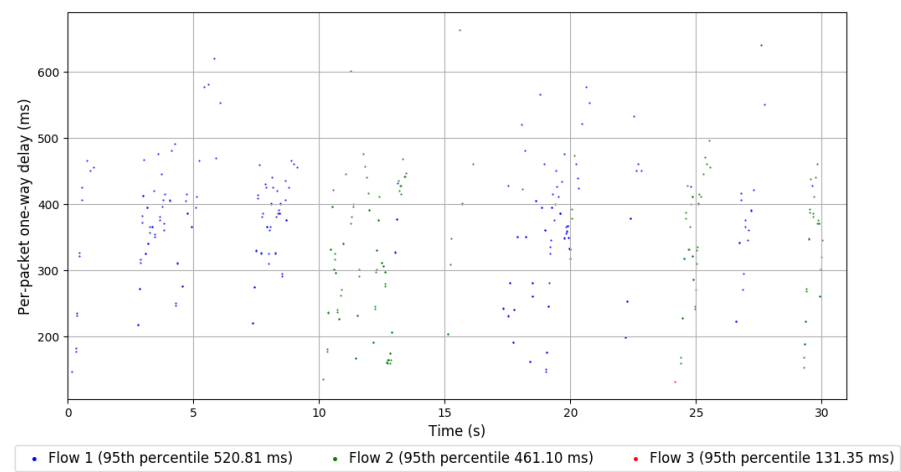
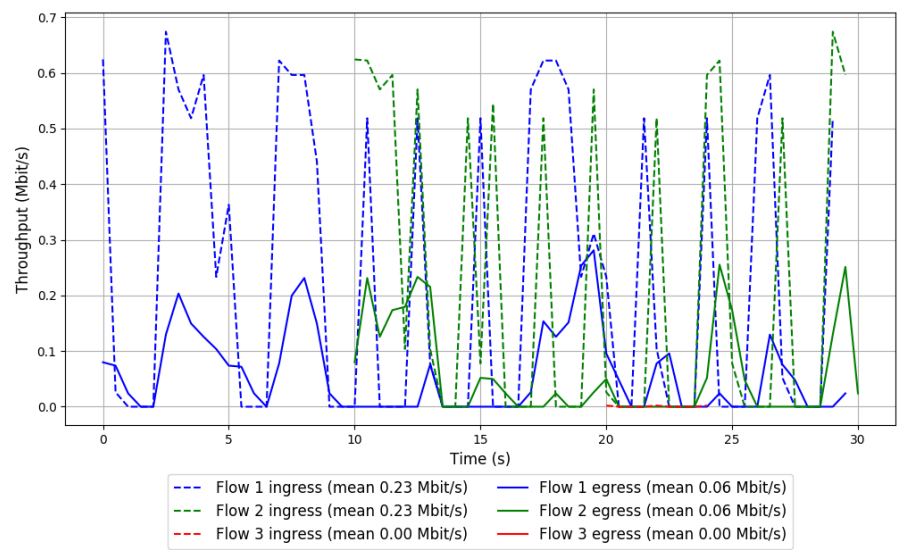


Run 3: Statistics of Copa

Start at: 2018-02-27 09:25:37
End at: 2018-02-27 09:26:07
Local clock offset: 0.413 ms
Remote clock offset: -68.482 ms

Below is generated by plot.py at 2018-02-27 10:32:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 475.843 ms
Loss rate: 74.15%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 520.813 ms
Loss rate: 74.59%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 461.098 ms
Loss rate: 73.51%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 131.352 ms
Loss rate: 66.67%

Run 3: Report of Copa — Data Link

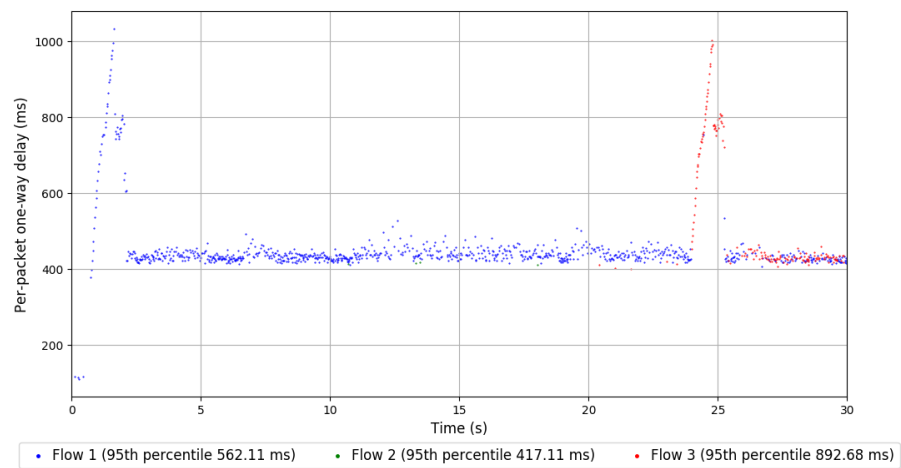
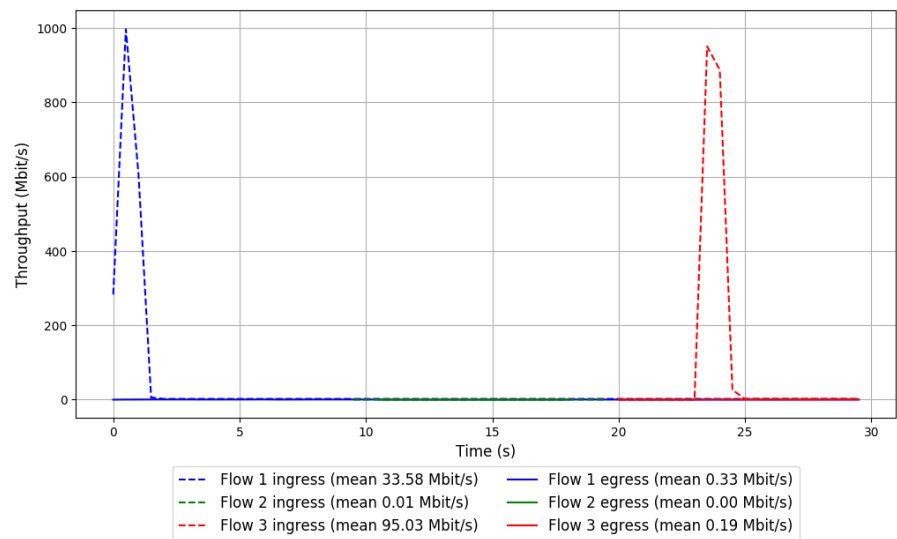


Run 1: Statistics of FillP

Start at: 2018-02-27 08:34:18
End at: 2018-02-27 08:34:48
Local clock offset: 1.534 ms
Remote clock offset: -65.461 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 769.747 ms
Loss rate: 99.40%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 562.108 ms
Loss rate: 99.01%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 417.107 ms
Loss rate: 94.62%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 892.681 ms
Loss rate: 99.81%

Run 1: Report of FillP — Data Link

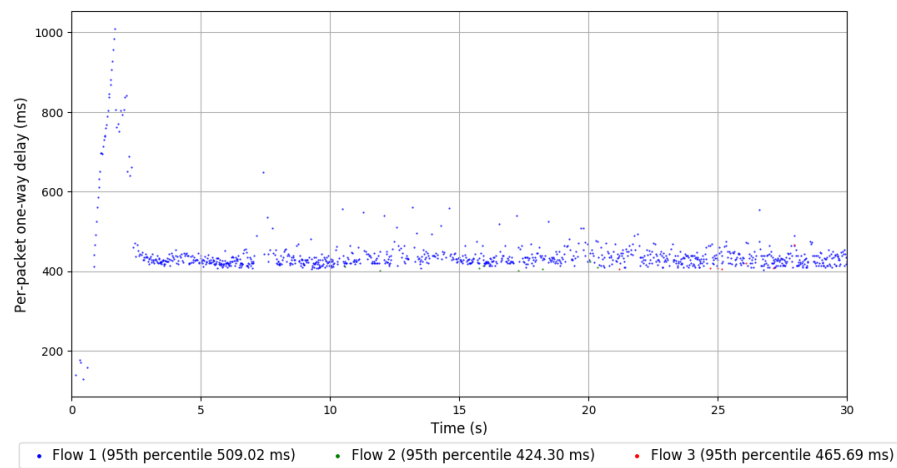
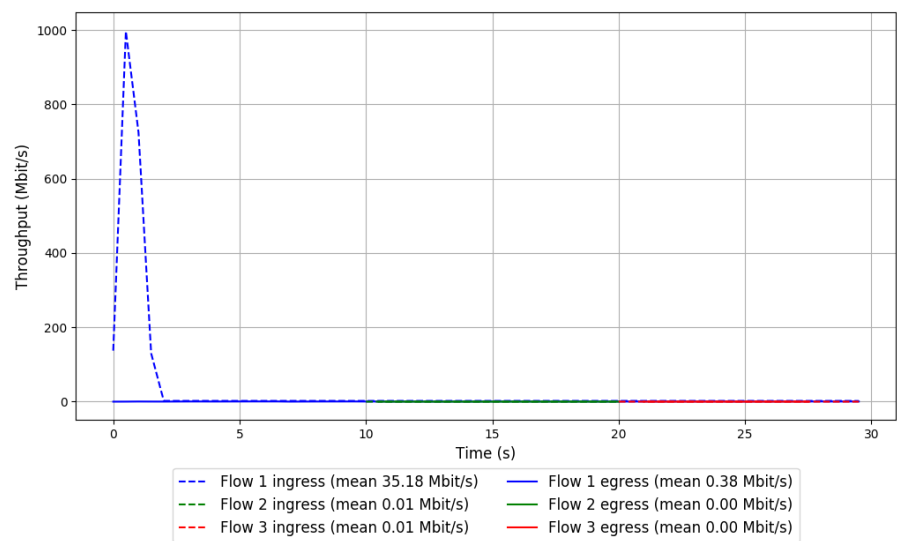


Run 2: Statistics of FillP

Start at: 2018-02-27 08:54:21
End at: 2018-02-27 08:54:51
Local clock offset: 0.639 ms
Remote clock offset: -66.425 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 508.654 ms
Loss rate: 98.92%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 509.023 ms
Loss rate: 98.92%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 424.296 ms
Loss rate: 90.36%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 465.690 ms
Loss rate: 91.20%

Run 2: Report of FillP — Data Link

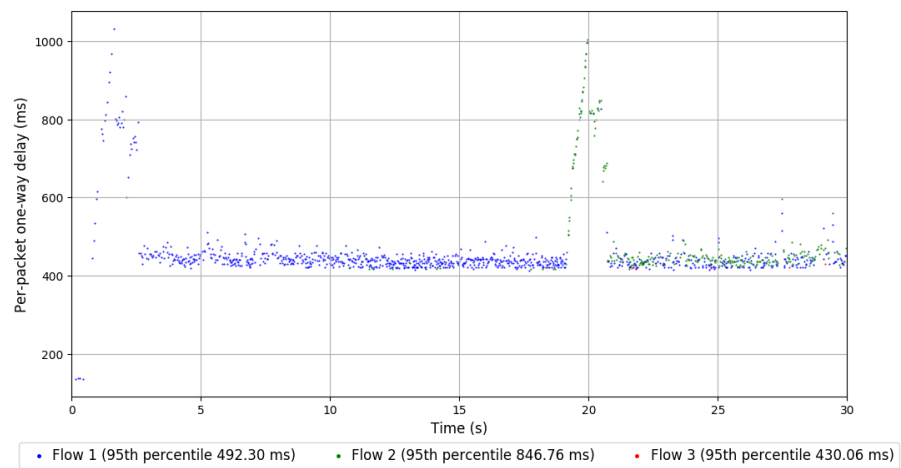
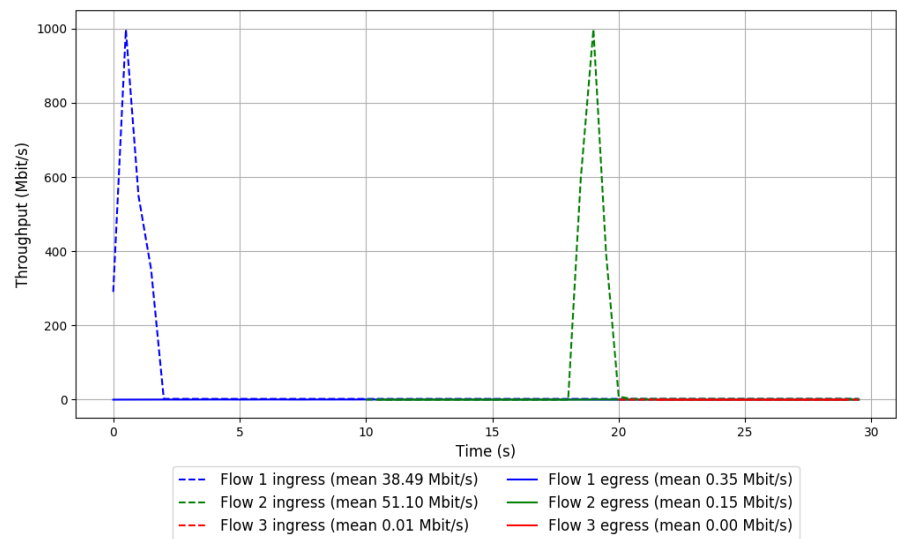


Run 3: Statistics of FillP

Start at: 2018-02-27 09:14:24
End at: 2018-02-27 09:14:54
Local clock offset: 5.221 ms
Remote clock offset: -73.314 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 751.569 ms
Loss rate: 99.39%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 492.303 ms
Loss rate: 99.10%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 846.757 ms
Loss rate: 99.72%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 430.062 ms
Loss rate: 93.46%

Run 3: Report of FillP — Data Link

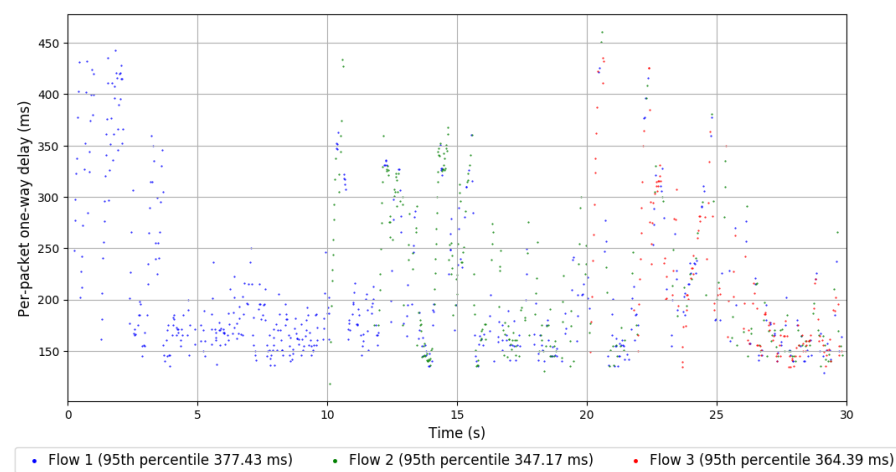
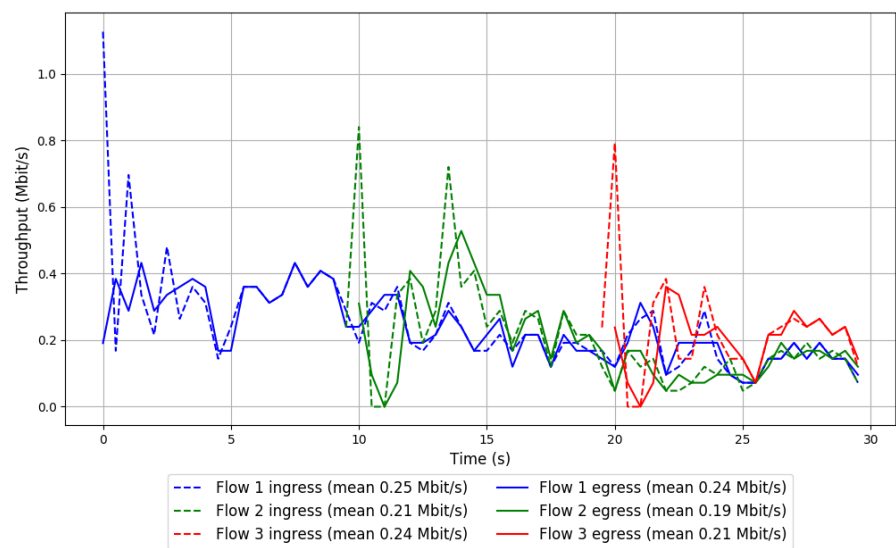


Run 1: Statistics of Indigo-1-32

Start at: 2018-02-27 08:43:15
End at: 2018-02-27 08:43:45
Local clock offset: 1.634 ms
Remote clock offset: -74.16 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 364.390 ms
Loss rate: 8.39%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 377.434 ms
Loss rate: 6.09%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 347.169 ms
Loss rate: 8.09%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 364.390 ms
Loss rate: 16.17%

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

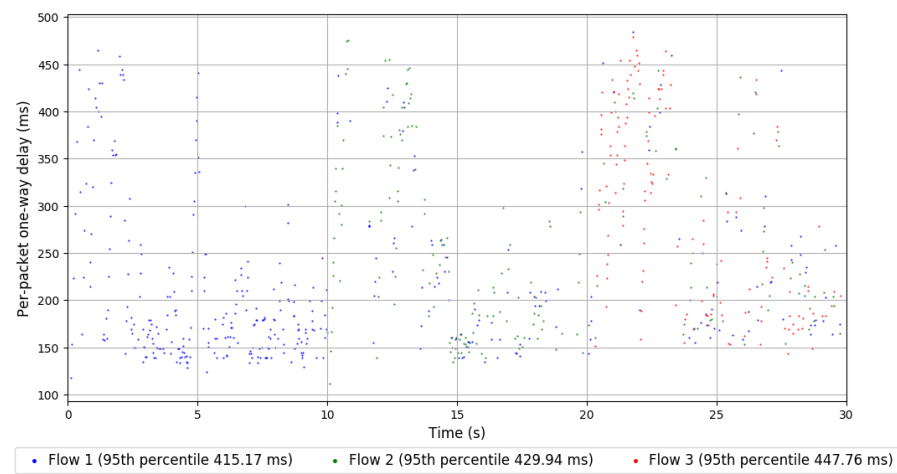
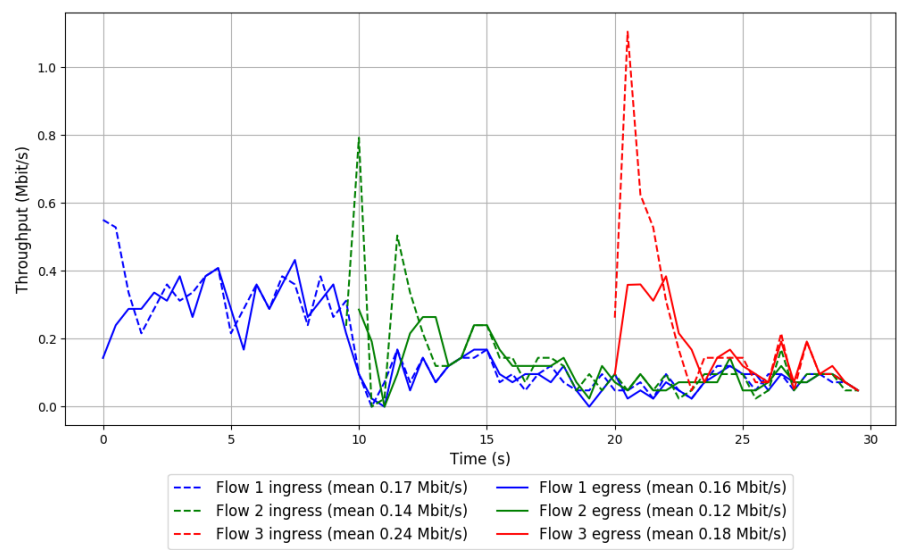


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-27 09:03:14
End at: 2018-02-27 09:03:44
Local clock offset: 2.472 ms
Remote clock offset: -65.056 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 433.570 ms
Loss rate: 14.42%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 415.173 ms
Loss rate: 8.26%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 429.940 ms
Loss rate: 16.31%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 447.764 ms
Loss rate: 25.92%

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

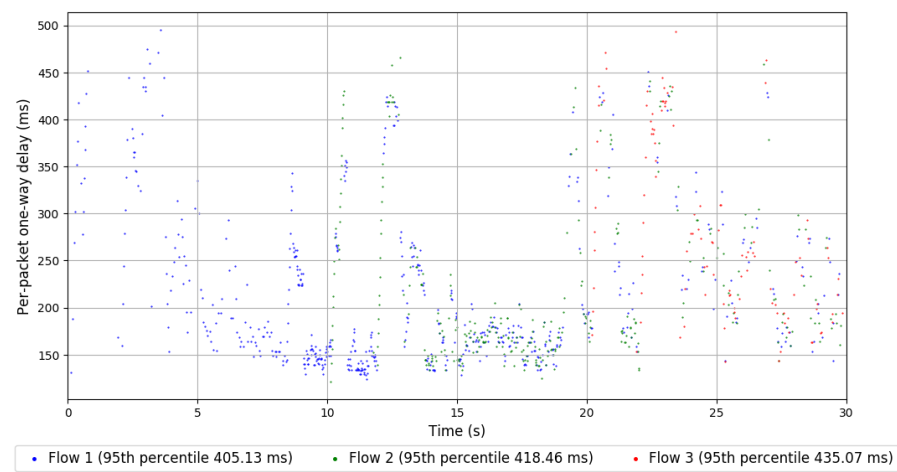
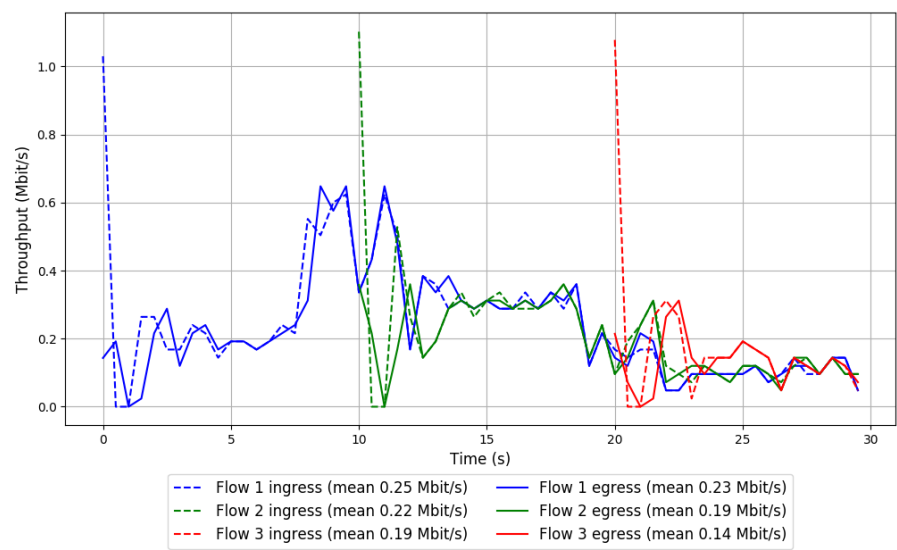


Run 3: Statistics of Indigo-1-32

Start at: 2018-02-27 09:23:24
End at: 2018-02-27 09:23:54
Local clock offset: 0.245 ms
Remote clock offset: -68.606 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 418.926 ms
Loss rate: 9.94%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 405.135 ms
Loss rate: 6.04%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 418.456 ms
Loss rate: 9.89%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 435.069 ms
Loss rate: 26.01%

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

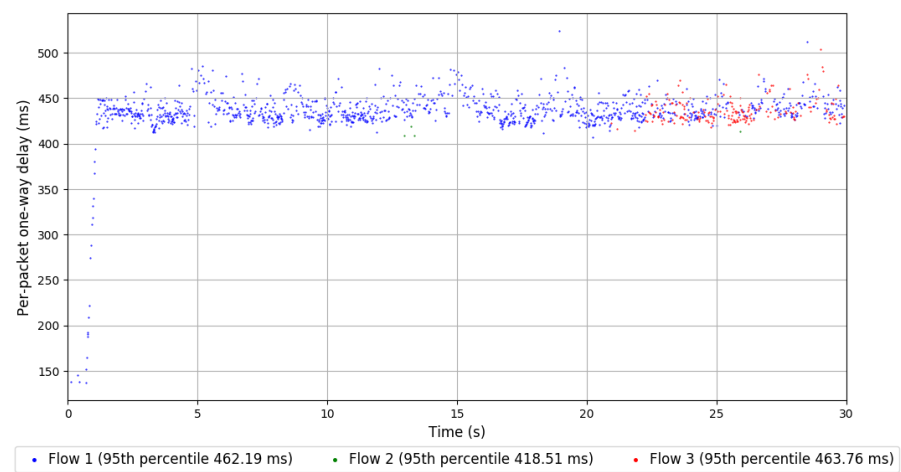
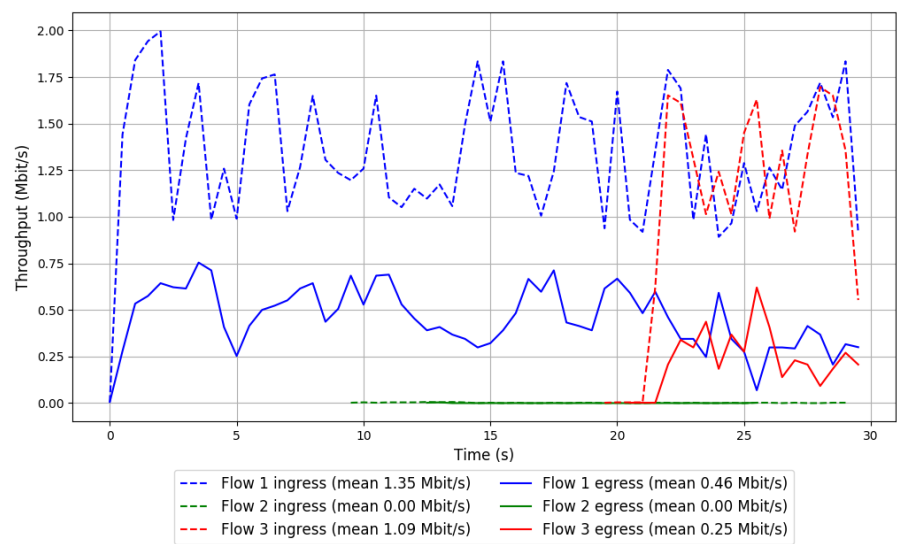


Run 1: Statistics of Vivace-latency

Start at: 2018-02-27 08:37:42
End at: 2018-02-27 08:38:12
Local clock offset: 3.043 ms
Remote clock offset: -70.587 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 462.599 ms
Loss rate: 68.63%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 462.194 ms
Loss rate: 65.81%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 418.515 ms
Loss rate: 88.66%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 463.756 ms
Loss rate: 79.12%

Run 1: Report of Vivace-latency — Data Link

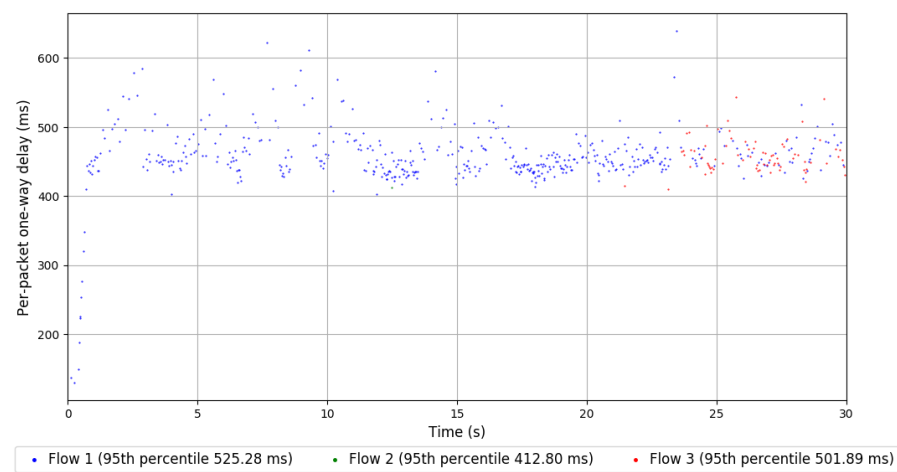
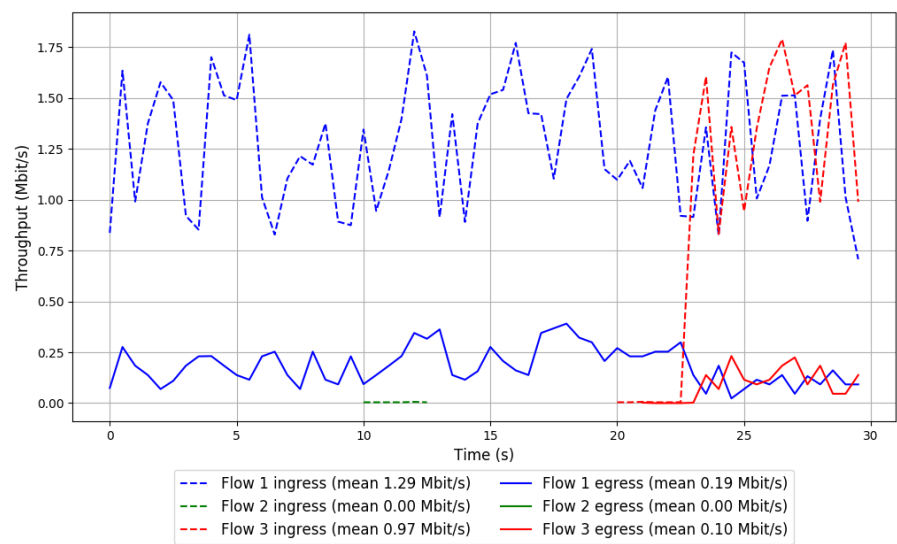


Run 2: Statistics of Vivace-latency

Start at: 2018-02-27 08:57:42
End at: 2018-02-27 08:58:12
Local clock offset: -4.851 ms
Remote clock offset: -70.864 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 519.075 ms
Loss rate: 86.77%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 525.278 ms
Loss rate: 85.65%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 412.795 ms
Loss rate: 92.31%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 501.887 ms
Loss rate: 91.25%

Run 2: Report of Vivace-latency — Data Link

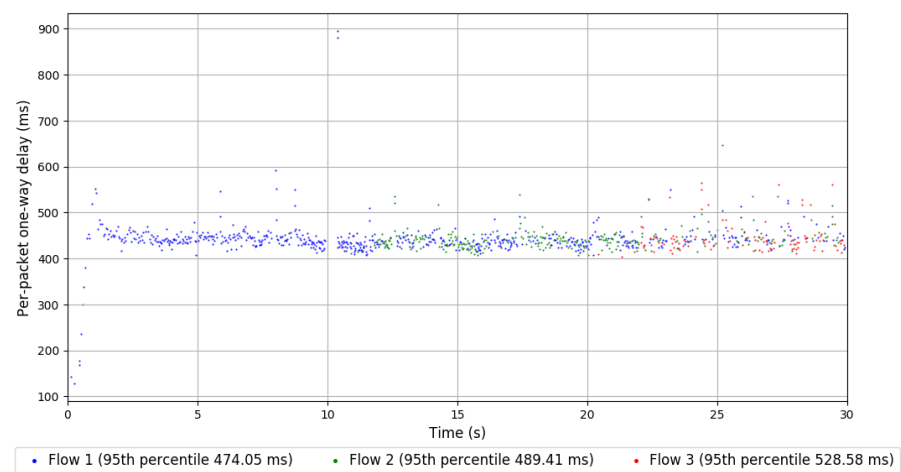
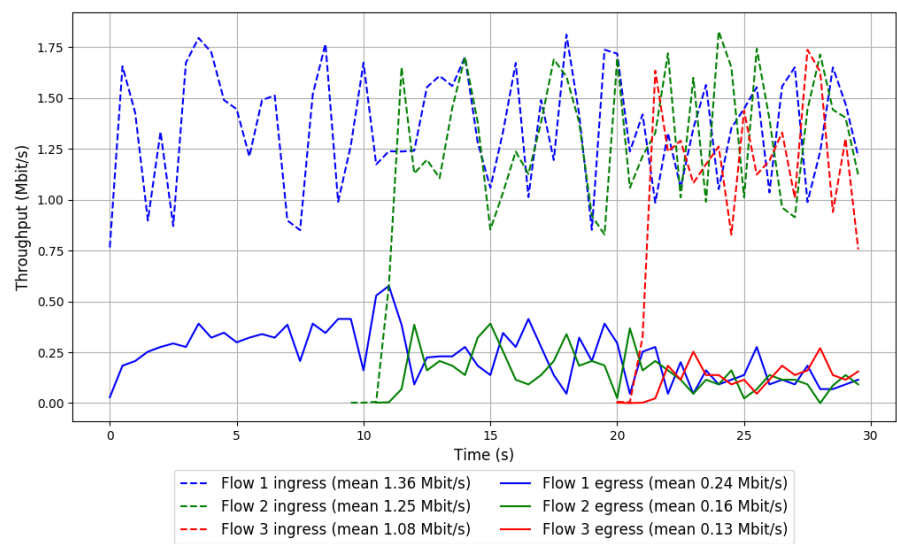


Run 3: Statistics of Vivace-latency

Start at: 2018-02-27 09:17:51
End at: 2018-02-27 09:18:21
Local clock offset: 0.07 ms
Remote clock offset: -68.872 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 483.945 ms
Loss rate: 85.20%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 474.051 ms
Loss rate: 82.51%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 489.412 ms
Loss rate: 88.08%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 528.581 ms
Loss rate: 88.81%

Run 3: Report of Vivace-latency — Data Link

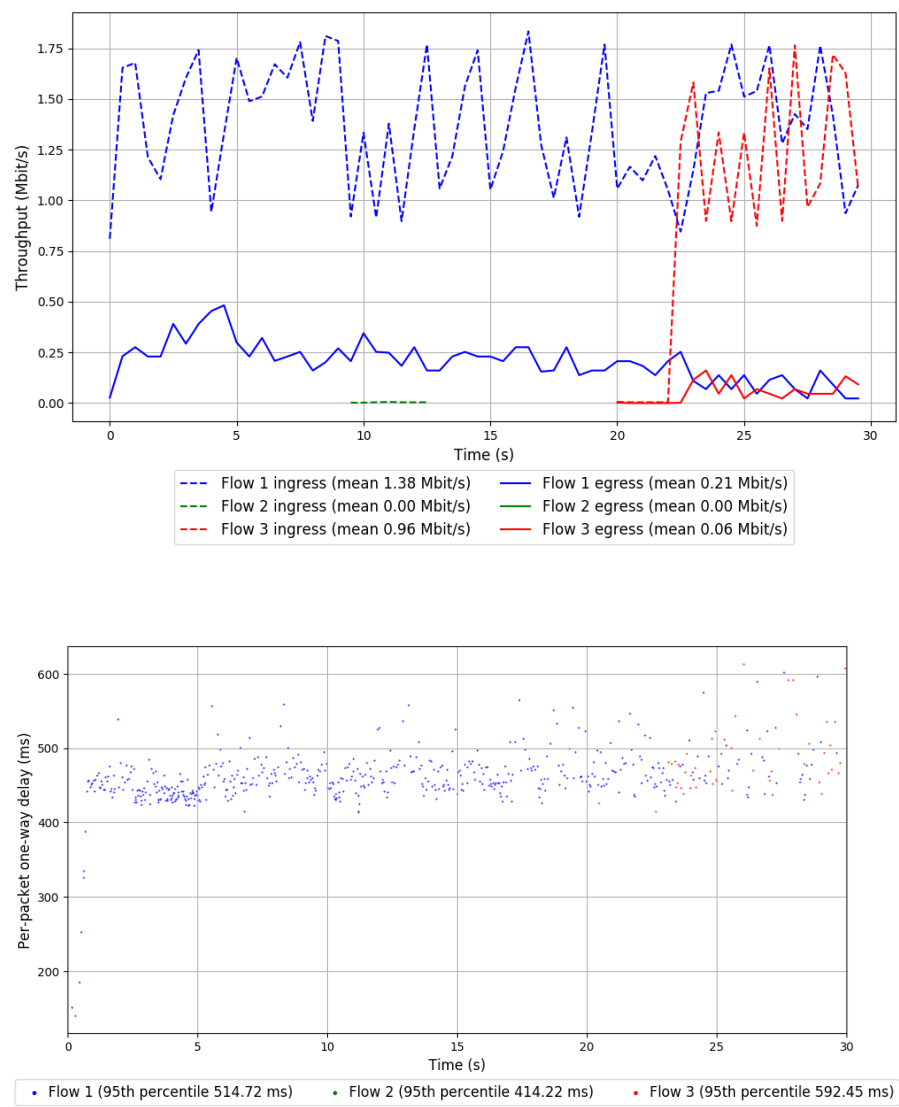


Run 1: Statistics of Vivace-loss

Start at: 2018-02-27 08:51:01
End at: 2018-02-27 08:51:31
Local clock offset: 1.663 ms
Remote clock offset: -73.323 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 525.067 ms
Loss rate: 86.93%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 514.720 ms
Loss rate: 85.20%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 414.216 ms
Loss rate: 92.31%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 592.451 ms
Loss rate: 94.45%

Run 1: Report of Vivace-loss — Data Link

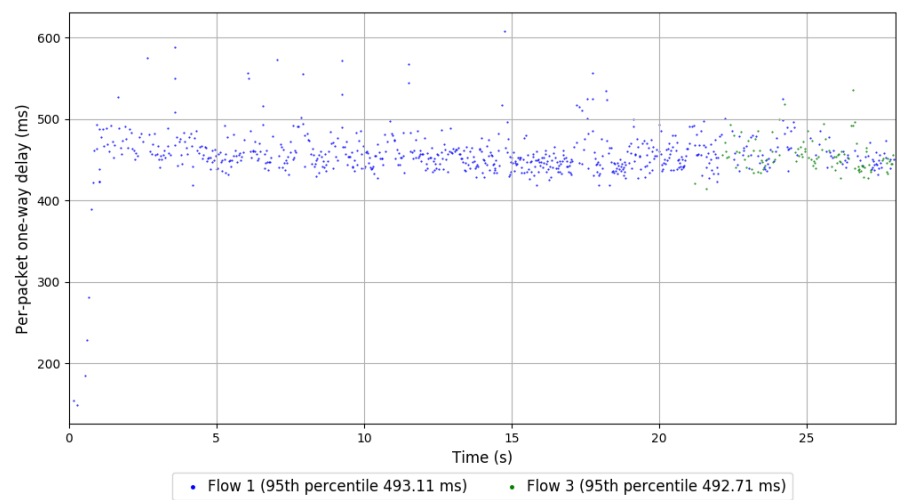
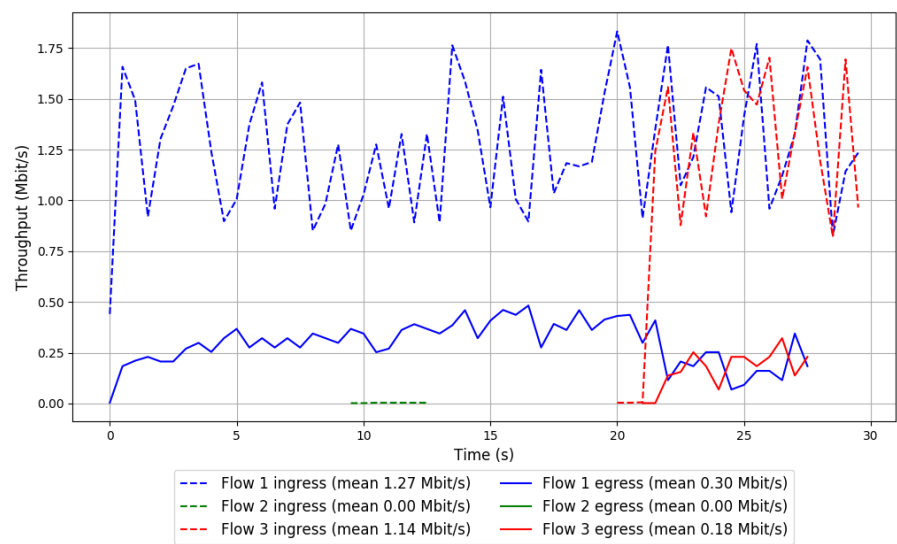


Run 2: Statistics of Vivace-loss

Start at: 2018-02-27 09:11:03
End at: 2018-02-27 09:11:33
Local clock offset: 5.709 ms
Remote clock offset: -76.497 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 493.105 ms
Loss rate: 80.72%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 493.105 ms
Loss rate: 78.13%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 492.713 ms
Loss rate: 89.47%

Run 2: Report of Vivace-loss — Data Link

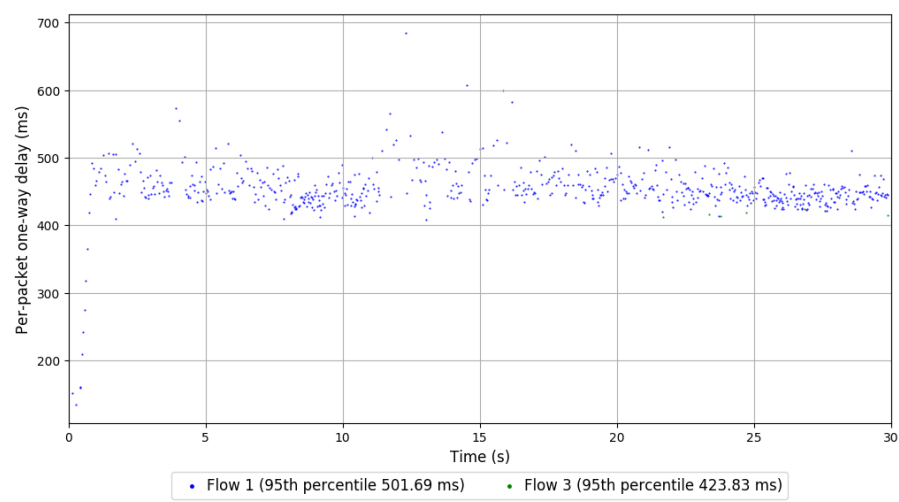
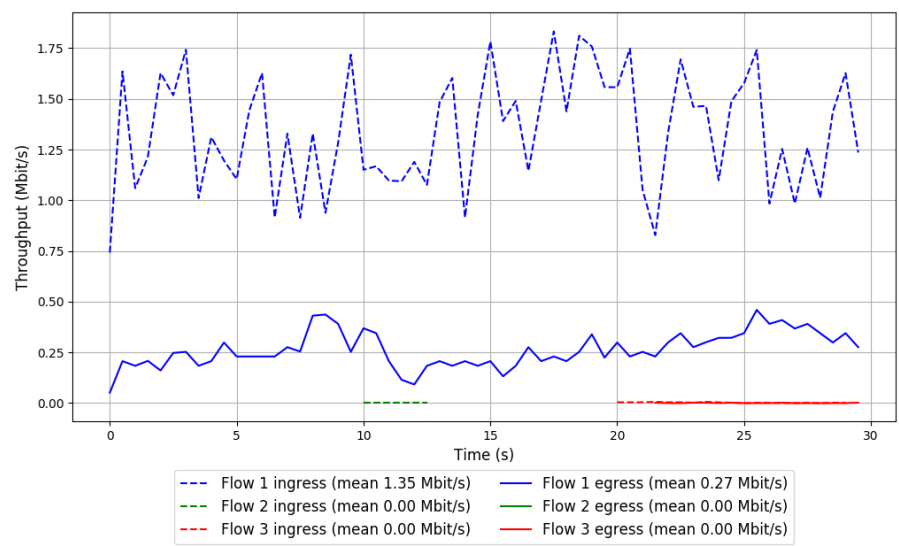


Run 3: Statistics of Vivace-loss

Start at: 2018-02-27 09:31:11
End at: 2018-02-27 09:31:41
Local clock offset: 3.854 ms
Remote clock offset: -70.175 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 501.693 ms
Loss rate: 80.33%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 501.693 ms
Loss rate: 80.33%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 423.831 ms
Loss rate: 75.56%

Run 3: Report of Vivace-loss — Data Link

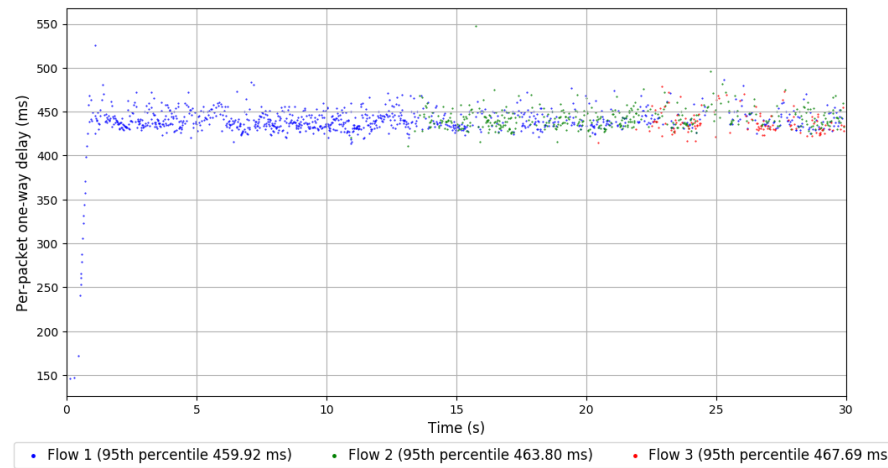
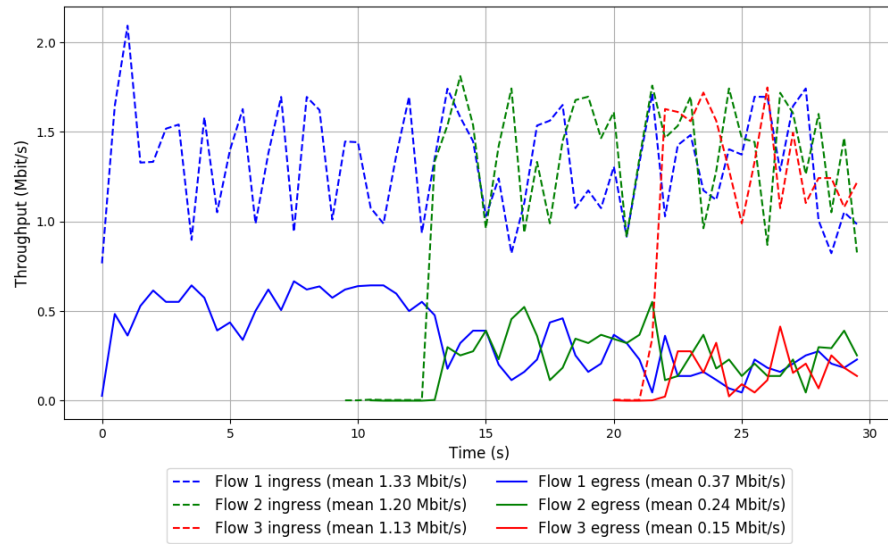


Run 1: Statistics of Vivace-LTE

Start at: 2018-02-27 08:41:02
End at: 2018-02-27 08:41:32
Local clock offset: 5.548 ms
Remote clock offset: -73.316 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 461.119 ms
Loss rate: 77.50%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 459.915 ms
Loss rate: 72.71%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 463.795 ms
Loss rate: 80.80%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 467.693 ms
Loss rate: 87.62%

Run 1: Report of Vivace-LTE — Data Link

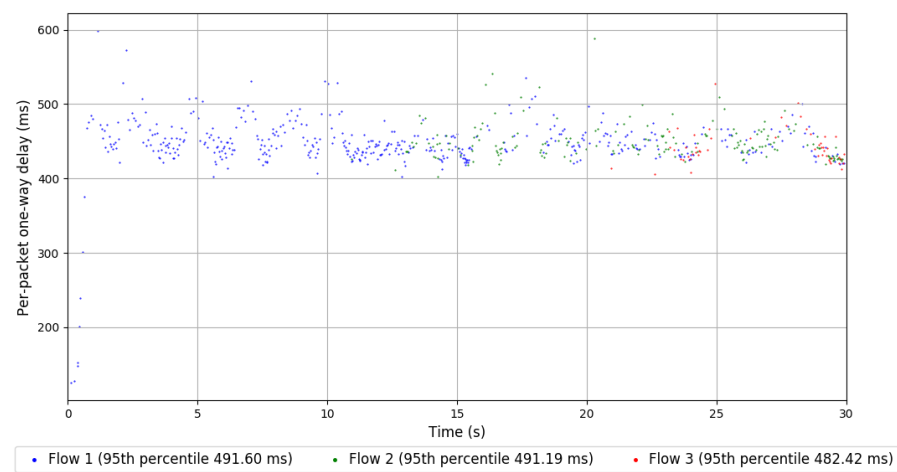
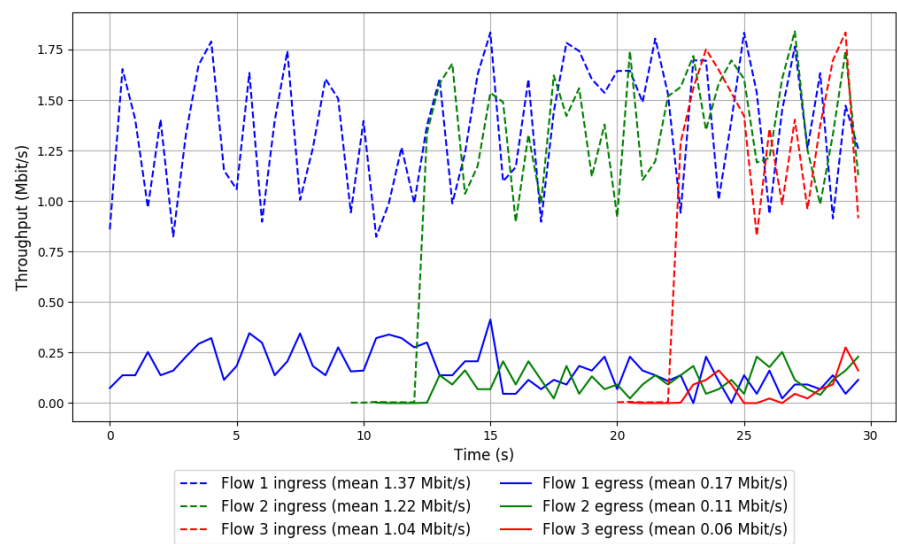


Run 2: Statistics of Vivace-LTE

Start at: 2018-02-27 09:01:02
End at: 2018-02-27 09:01:32
Local clock offset: 2.324 ms
Remote clock offset: -65.034 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 491.572 ms
Loss rate: 89.87%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 491.600 ms
Loss rate: 87.67%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 491.189 ms
Loss rate: 91.68%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 482.424 ms
Loss rate: 94.39%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-27 09:21:11
End at: 2018-02-27 09:21:41
Local clock offset: 2.328 ms
Remote clock offset: -73.268 ms

Below is generated by plot.py at 2018-02-27 10:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 493.346 ms
Loss rate: 84.44%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 492.002 ms
Loss rate: 82.42%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 408.223 ms
Loss rate: 92.43%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 520.792 ms
Loss rate: 92.62%

Run 3: Report of Vivace-LTE — Data Link

