

## Pantheon Report

Generated at 2018-02-14 01:55:59 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

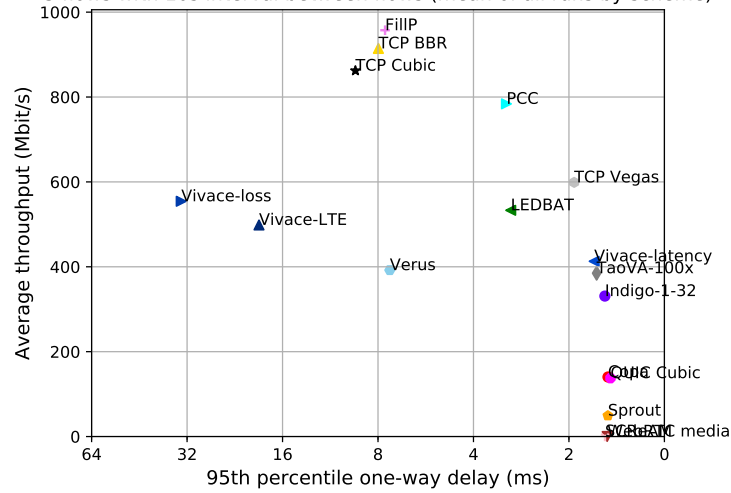
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

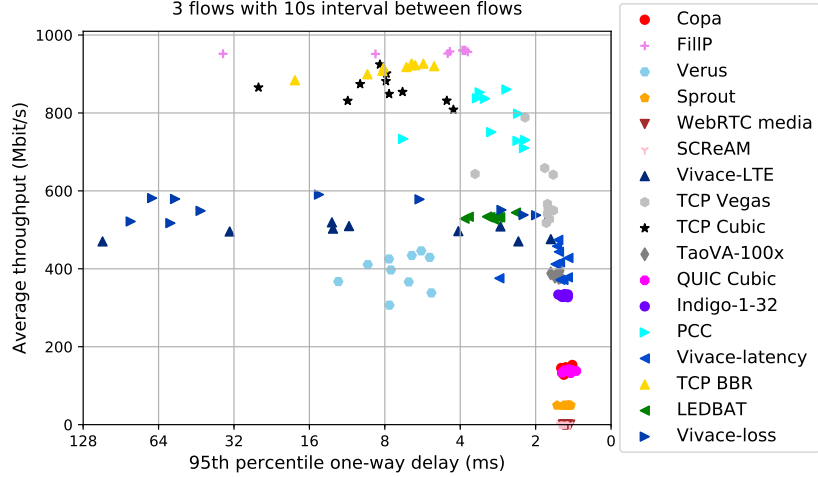
Git summary:

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

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



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



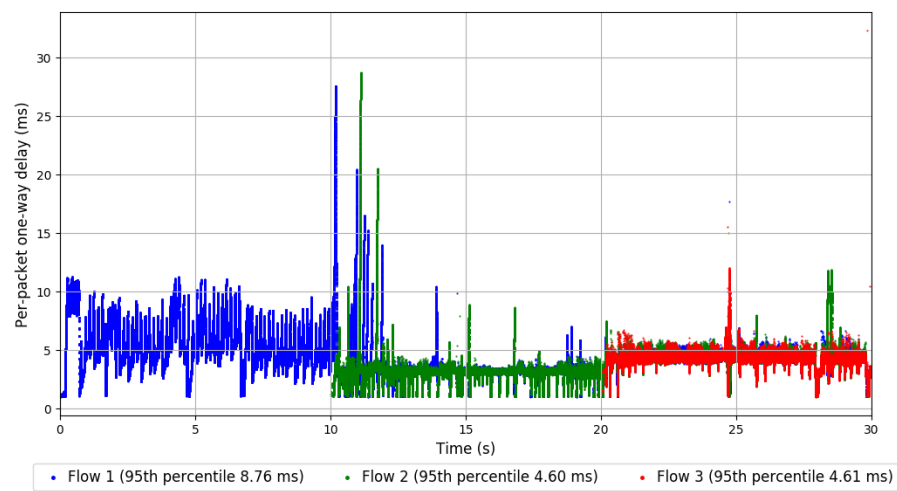
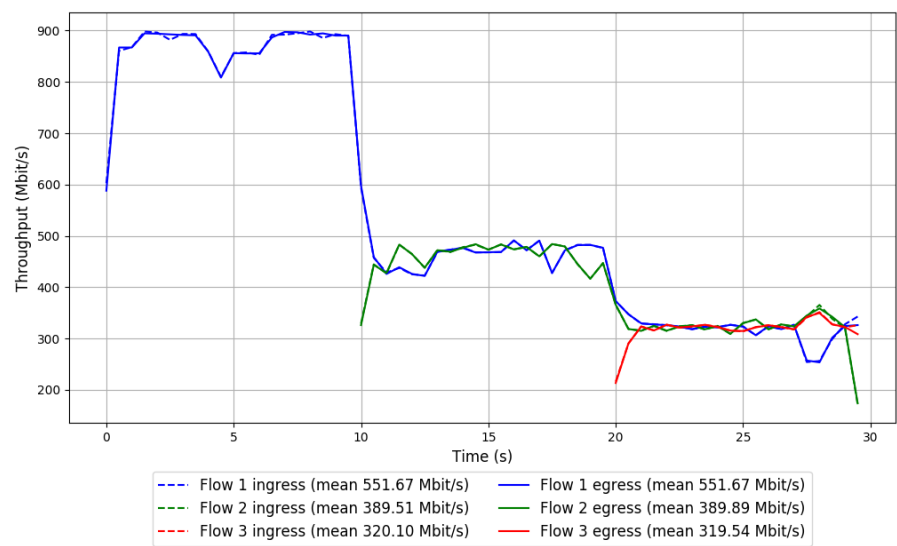
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	549.79	389.45	319.41	9.79	4.88	4.60	0.04	0.08	0.24
TCP Cubic	10	498.93	390.38	312.22	10.48	4.46	4.48	0.05	0.09	0.22
LEDBAT	10	310.88	244.66	179.98	2.74	3.43	2.97	0.04	0.09	0.25
PCC	10	641.25	156.82	117.50	3.98	2.67	2.33	0.08	0.11	0.22
QUIC Cubic	10	72.91	68.45	58.48	1.12	1.13	1.13	0.06	0.09	0.17
SCReAM	10	0.22	0.22	0.22	1.24	1.25	1.24	0.03	0.02	0.24
WebRTC media	10	0.05	0.05	0.05	1.20	1.20	1.19	0.00	0.01	0.00
Sprout	10	24.82	24.77	24.28	1.19	1.18	1.18	0.07	0.10	0.22
TaoVA-100x	10	214.80	192.05	127.96	1.29	1.51	1.83	0.04	0.08	0.16
TCP Vegas	10	336.50	248.37	293.10	1.85	1.88	1.95	0.06	0.08	0.20
Verus	10	232.42	171.35	139.45	8.21	7.30	3.67	0.14	0.06	0.26
Copa	10	74.58	68.95	59.97	1.18	1.18	1.20	0.05	0.07	0.20
FillP	10	586.18	400.83	316.67	16.41	3.90	3.96	0.33	0.08	0.21
Indigo-1-32	10	177.09	161.50	143.21	1.21	1.27	1.32	0.06	0.08	0.20
Vivace-latency	10	286.65	140.18	100.90	2.69	1.31	1.28	0.10	0.08	0.31
Vivace-loss	10	354.57	219.75	164.03	43.71	12.35	2.12	0.70	0.15	0.20
Vivace-LTE	10	332.12	181.46	139.98	39.29	2.00	1.56	0.36	0.09	0.20

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 13:29:07  
End at: 2018-02-13 13:29:37  
Local clock offset: -0.034 ms  
Remote clock offset: -6.826 ms

# Below is generated by plot.py at 2018-02-13 23:43:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 916.80 Mbit/s  
95th percentile per-packet one-way delay: 8.090 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 551.67 Mbit/s  
95th percentile per-packet one-way delay: 8.757 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 389.89 Mbit/s  
95th percentile per-packet one-way delay: 4.598 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 319.54 Mbit/s  
95th percentile per-packet one-way delay: 4.606 ms  
Loss rate: 0.31%

Run 1: Report of TCP BBR — Data Link

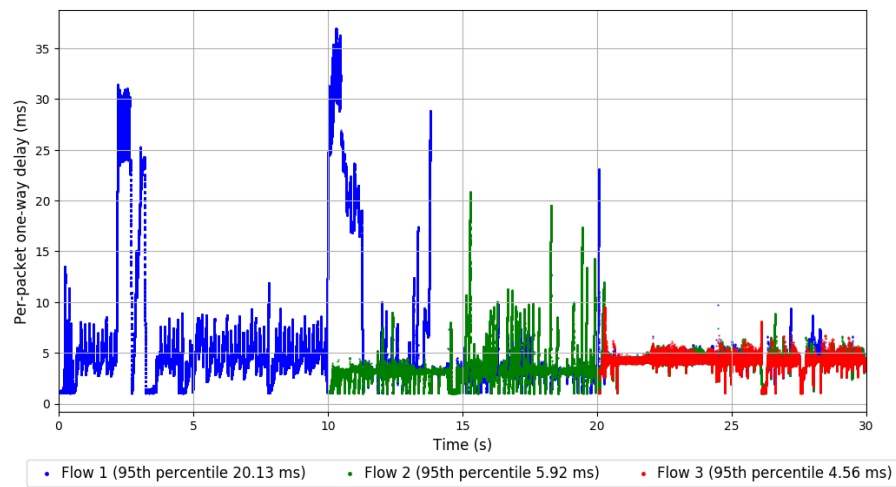
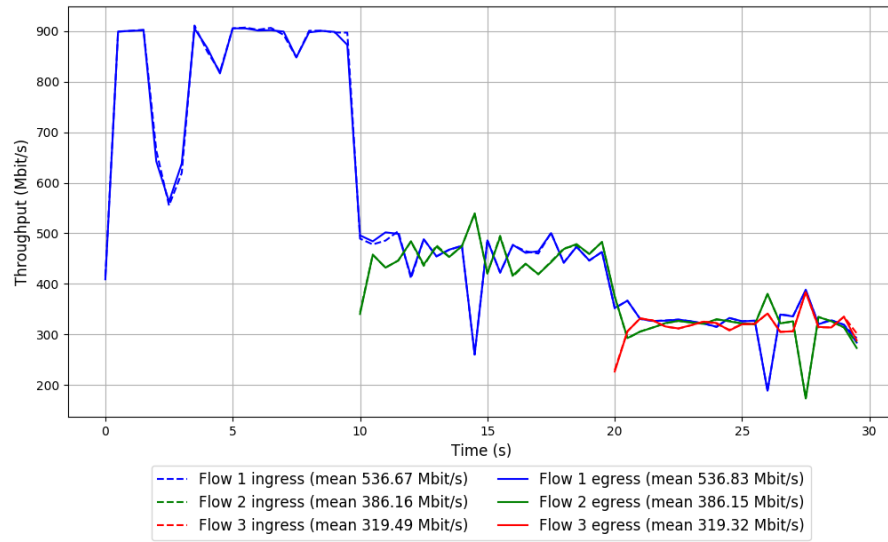


Run 2: Statistics of TCP BBR

Start at: 2018-02-13 13:58:07  
End at: 2018-02-13 13:58:37  
Local clock offset: 0.048 ms  
Remote clock offset: -5.972 ms

# Below is generated by plot.py at 2018-02-13 23:43:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 899.49 Mbit/s  
95th percentile per-packet one-way delay: 9.386 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 536.83 Mbit/s  
95th percentile per-packet one-way delay: 20.133 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 386.15 Mbit/s  
95th percentile per-packet one-way delay: 5.919 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 319.32 Mbit/s  
95th percentile per-packet one-way delay: 4.559 ms  
Loss rate: 0.26%

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

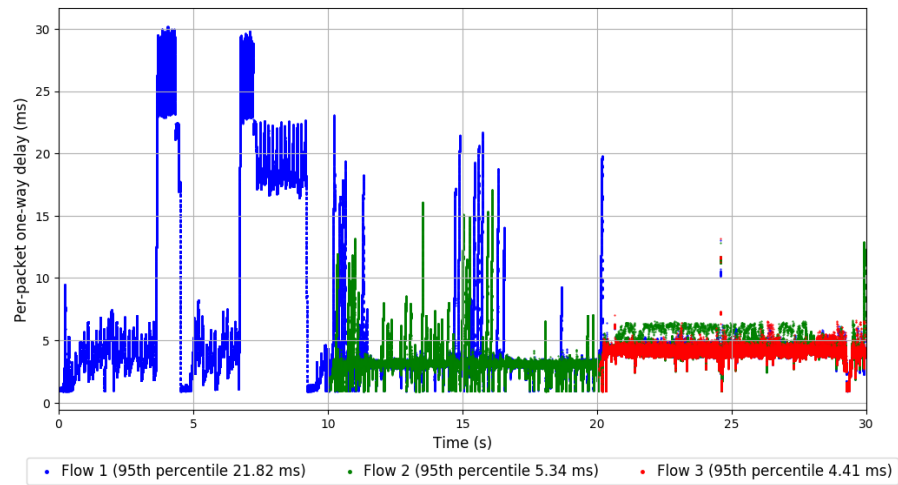
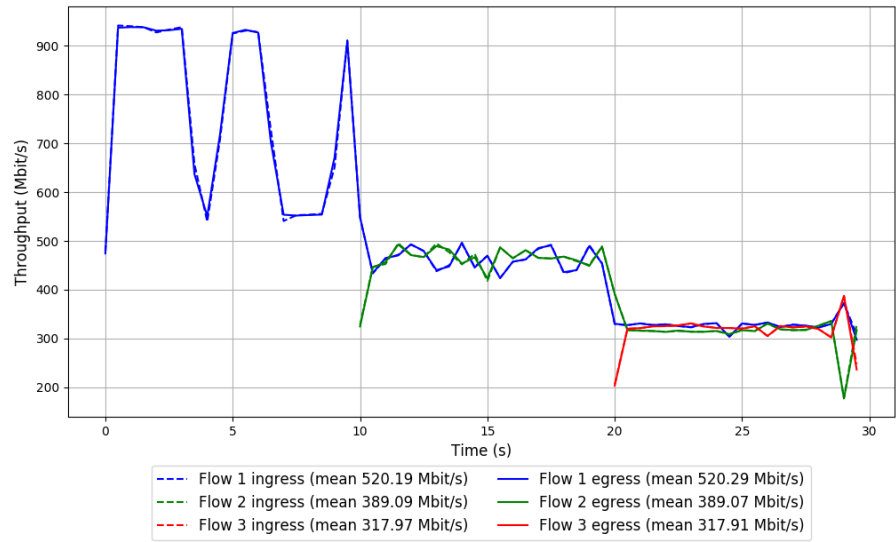


Run 3: Statistics of TCP BBR

Start at: 2018-02-13 14:27:06  
End at: 2018-02-13 14:27:36  
Local clock offset: 0.286 ms  
Remote clock offset: -5.171 ms

# Below is generated by plot.py at 2018-02-13 23:43:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 884.04 Mbit/s  
95th percentile per-packet one-way delay: 18.269 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 520.29 Mbit/s  
95th percentile per-packet one-way delay: 21.821 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 389.07 Mbit/s  
95th percentile per-packet one-way delay: 5.336 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 317.91 Mbit/s  
95th percentile per-packet one-way delay: 4.408 ms  
Loss rate: 0.22%

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

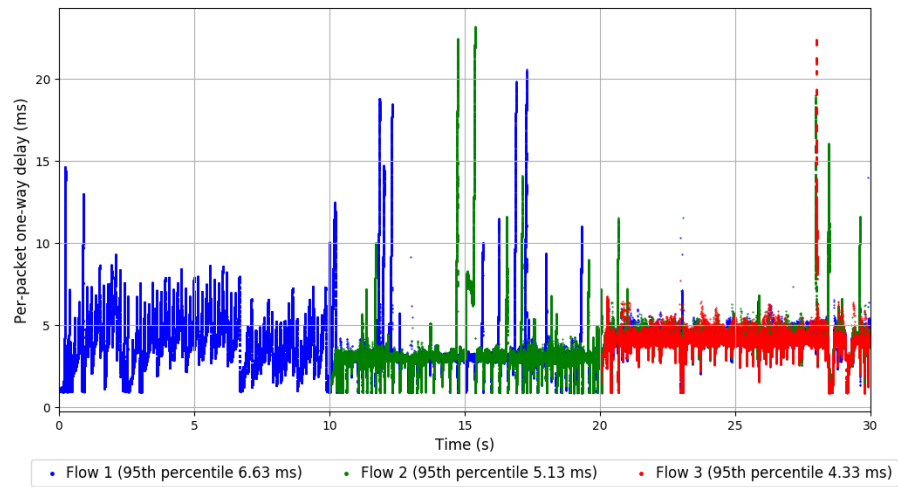
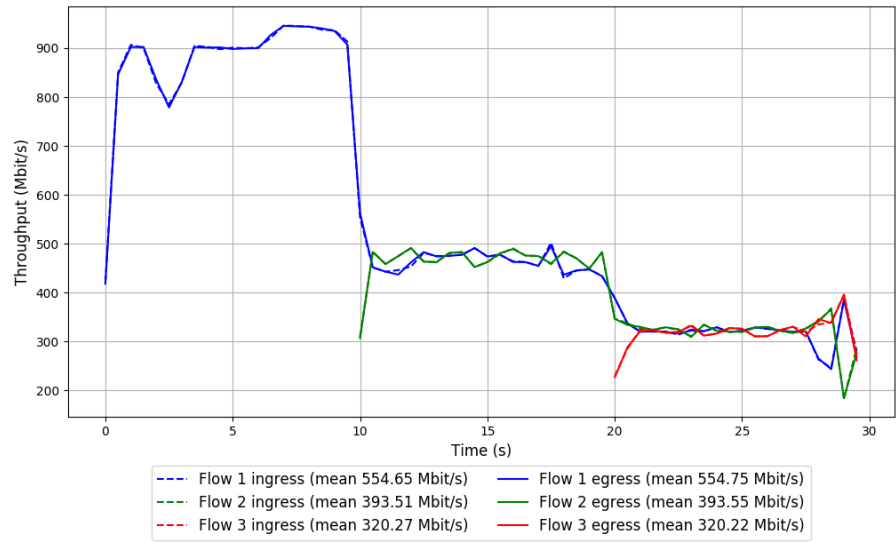


Run 4: Statistics of TCP BBR

Start at: 2018-02-13 14:56:17  
End at: 2018-02-13 14:56:47  
Local clock offset: 0.382 ms  
Remote clock offset: -5.273 ms

# Below is generated by plot.py at 2018-02-13 23:43:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 922.52 Mbit/s  
95th percentile per-packet one-way delay: 6.285 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 554.75 Mbit/s  
95th percentile per-packet one-way delay: 6.632 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 393.55 Mbit/s  
95th percentile per-packet one-way delay: 5.130 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 320.22 Mbit/s  
95th percentile per-packet one-way delay: 4.327 ms  
Loss rate: 0.22%

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

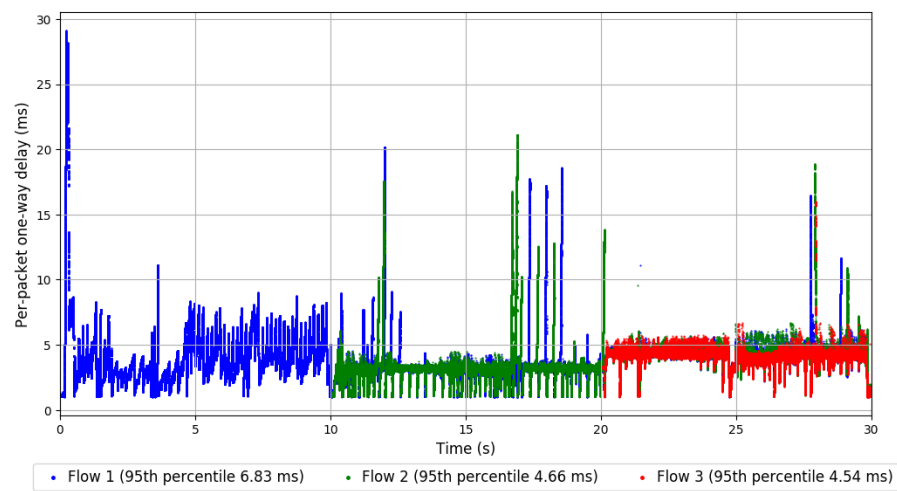
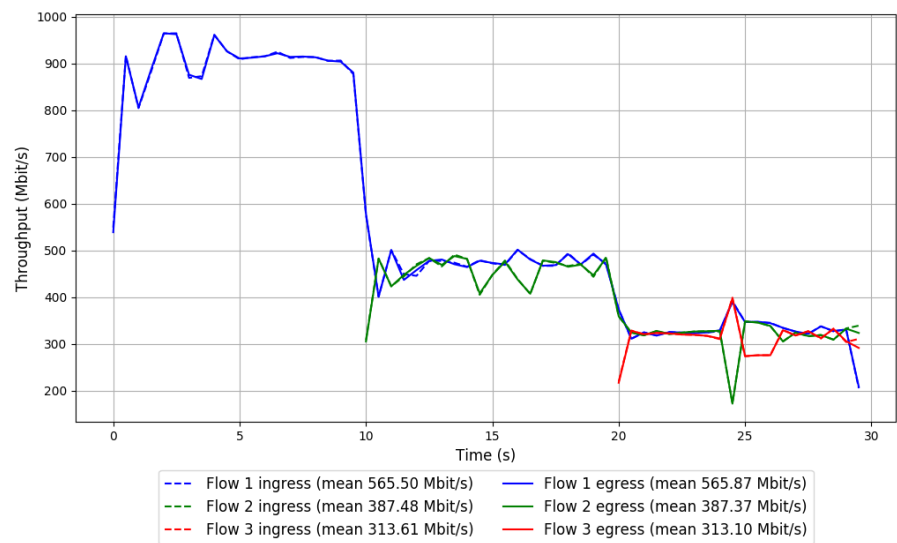


Run 5: Statistics of TCP BBR

Start at: 2018-02-13 15:25:19  
End at: 2018-02-13 15:25:49  
Local clock offset: 0.288 ms  
Remote clock offset: -5.883 ms

# Below is generated by plot.py at 2018-02-13 23:43:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 927.05 Mbit/s  
95th percentile per-packet one-way delay: 6.252 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 565.87 Mbit/s  
95th percentile per-packet one-way delay: 6.826 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 387.37 Mbit/s  
95th percentile per-packet one-way delay: 4.661 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 313.10 Mbit/s  
95th percentile per-packet one-way delay: 4.542 ms  
Loss rate: 0.33%

Run 5: Report of TCP BBR — Data Link

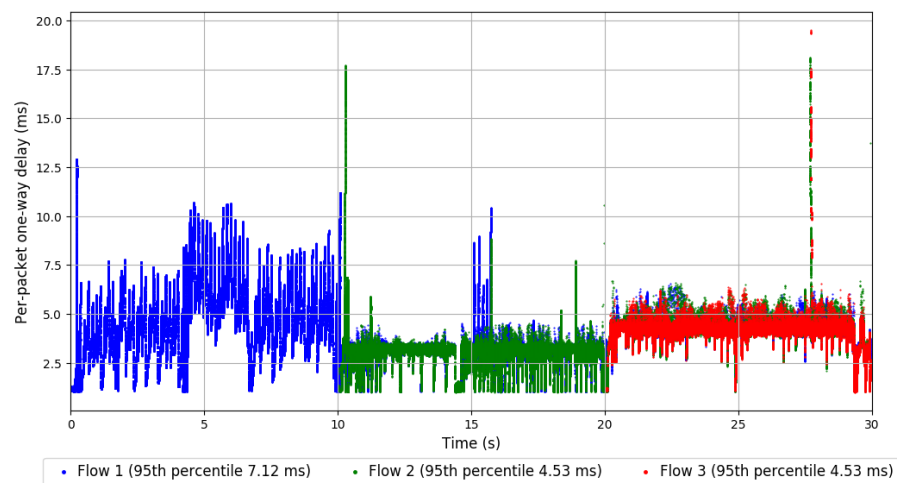
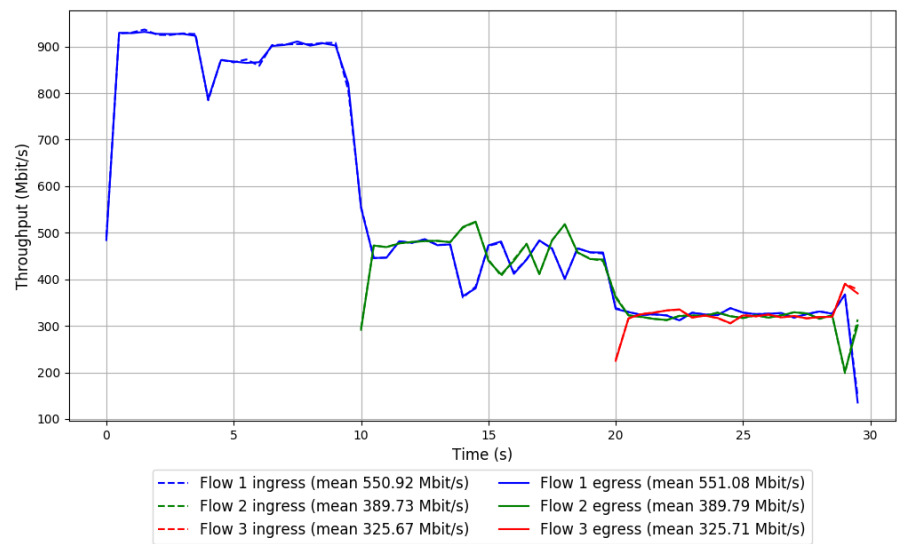


Run 6: Statistics of TCP BBR

Start at: 2018-02-13 15:54:29  
End at: 2018-02-13 15:54:59  
Local clock offset: -0.122 ms  
Remote clock offset: -7.132 ms

# Below is generated by plot.py at 2018-02-13 23:43:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 917.88 Mbit/s  
95th percentile per-packet one-way delay: 6.559 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 551.08 Mbit/s  
95th percentile per-packet one-way delay: 7.119 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 389.79 Mbit/s  
95th percentile per-packet one-way delay: 4.527 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 325.71 Mbit/s  
95th percentile per-packet one-way delay: 4.525 ms  
Loss rate: 0.18%

Run 6: Report of TCP BBR — Data Link

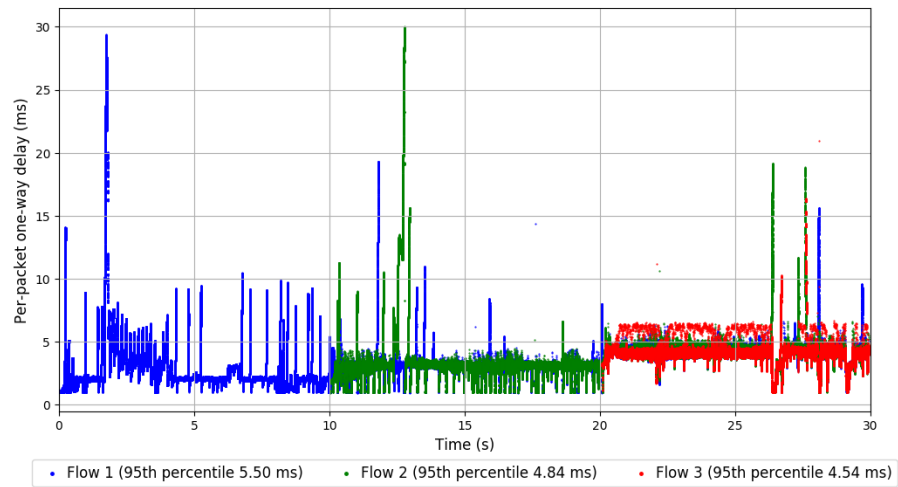
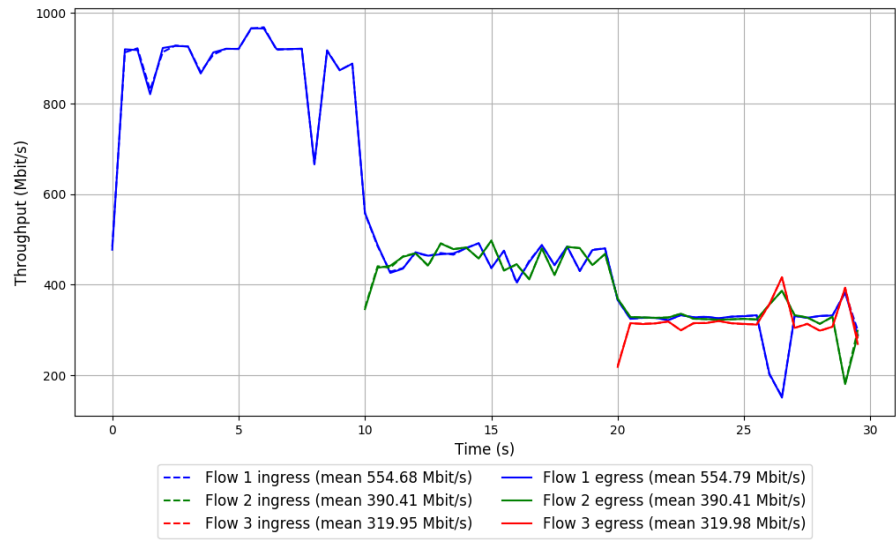


Run 7: Statistics of TCP BBR

Start at: 2018-02-13 16:23:41  
End at: 2018-02-13 16:24:11  
Local clock offset: -0.38 ms  
Remote clock offset: -6.975 ms

# Below is generated by plot.py at 2018-02-13 23:43:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 920.11 Mbit/s  
95th percentile per-packet one-way delay: 5.083 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 554.79 Mbit/s  
95th percentile per-packet one-way delay: 5.496 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 390.41 Mbit/s  
95th percentile per-packet one-way delay: 4.845 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 319.98 Mbit/s  
95th percentile per-packet one-way delay: 4.536 ms  
Loss rate: 0.22%

# Run 7: Report of TCP BBR — Data Link

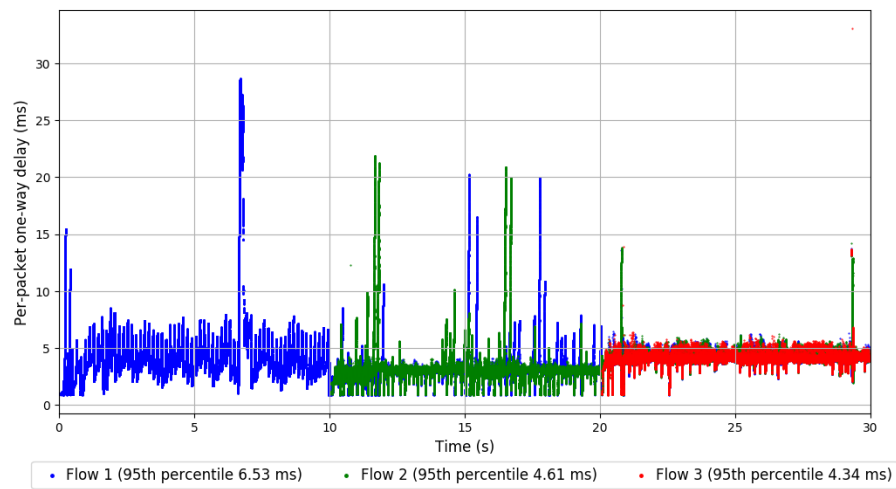
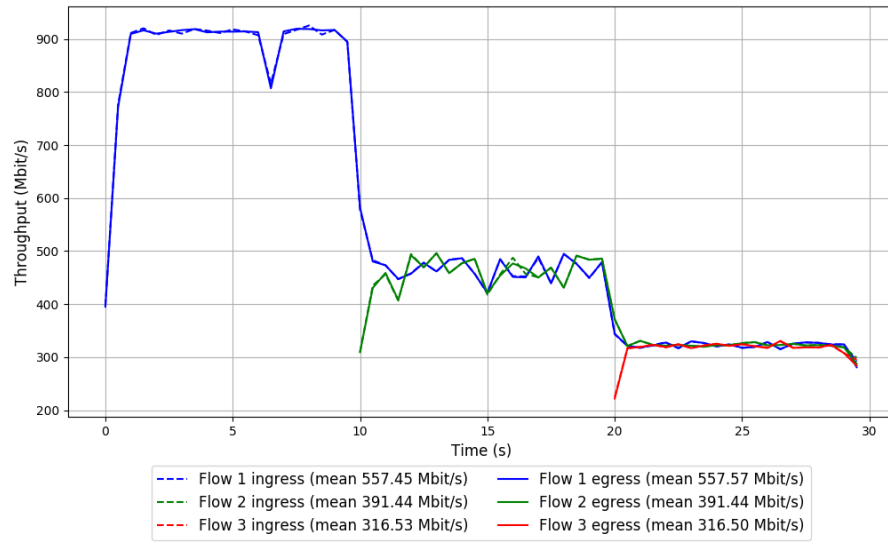


Run 8: Statistics of TCP BBR

Start at: 2018-02-13 16:52:38  
End at: 2018-02-13 16:53:08  
Local clock offset: 1.199 ms  
Remote clock offset: -4.925 ms

# Below is generated by plot.py at 2018-02-13 23:43:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 922.58 Mbit/s  
95th percentile per-packet one-way delay: 6.051 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 557.57 Mbit/s  
95th percentile per-packet one-way delay: 6.529 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 391.44 Mbit/s  
95th percentile per-packet one-way delay: 4.607 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 316.50 Mbit/s  
95th percentile per-packet one-way delay: 4.344 ms  
Loss rate: 0.22%

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

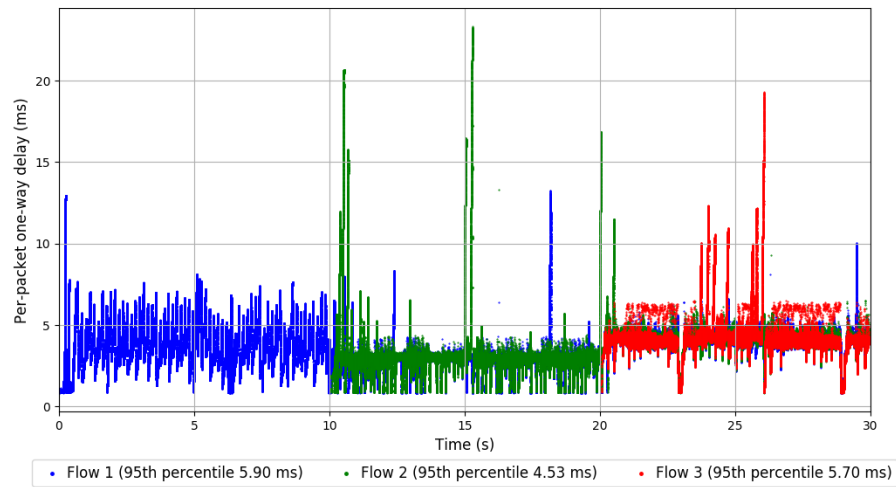
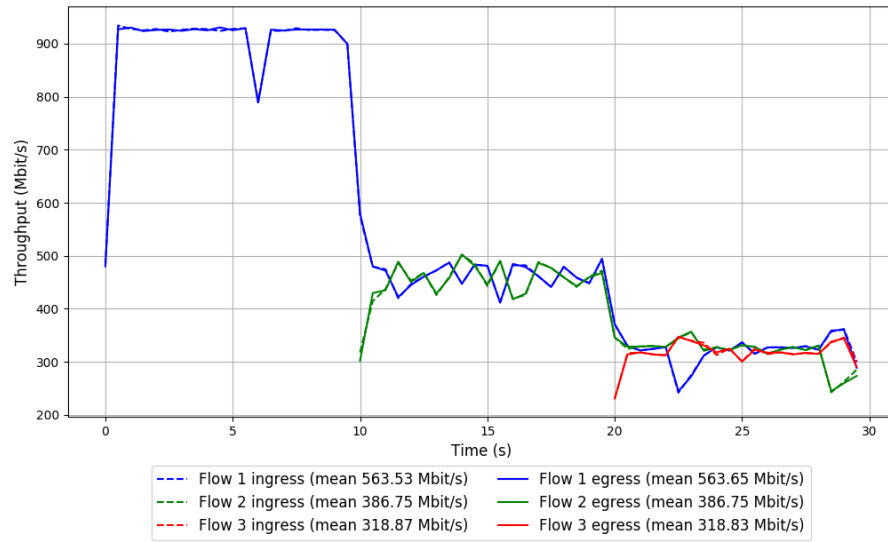


Run 9: Statistics of TCP BBR

Start at: 2018-02-13 17:21:32  
End at: 2018-02-13 17:22:02  
Local clock offset: 3.096 ms  
Remote clock offset: -4.906 ms

# Below is generated by plot.py at 2018-02-13 23:55:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 926.56 Mbit/s  
95th percentile per-packet one-way delay: 5.614 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 563.65 Mbit/s  
95th percentile per-packet one-way delay: 5.899 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 386.75 Mbit/s  
95th percentile per-packet one-way delay: 4.533 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 318.83 Mbit/s  
95th percentile per-packet one-way delay: 5.697 ms  
Loss rate: 0.22%

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

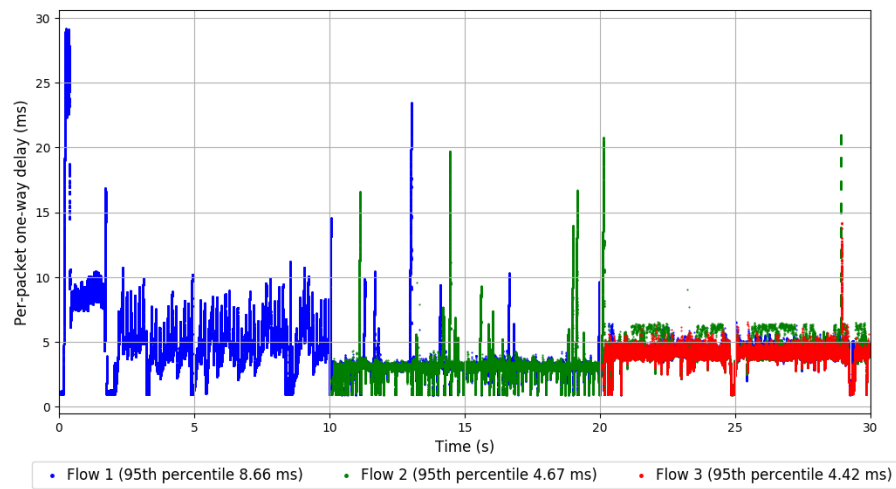
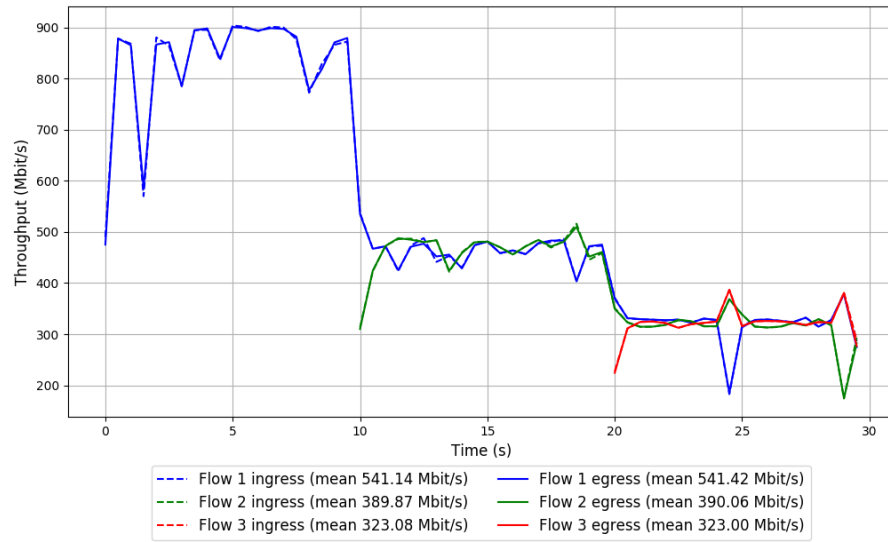


Run 10: Statistics of TCP BBR

Start at: 2018-02-13 17:50:34  
End at: 2018-02-13 17:51:04  
Local clock offset: 4.131 ms  
Remote clock offset: -5.115 ms

# Below is generated by plot.py at 2018-02-13 23:55:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 907.99 Mbit/s  
95th percentile per-packet one-way delay: 8.174 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 541.42 Mbit/s  
95th percentile per-packet one-way delay: 8.665 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 390.06 Mbit/s  
95th percentile per-packet one-way delay: 4.674 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 323.00 Mbit/s  
95th percentile per-packet one-way delay: 4.421 ms  
Loss rate: 0.23%

# Run 10: Report of TCP BBR — Data Link

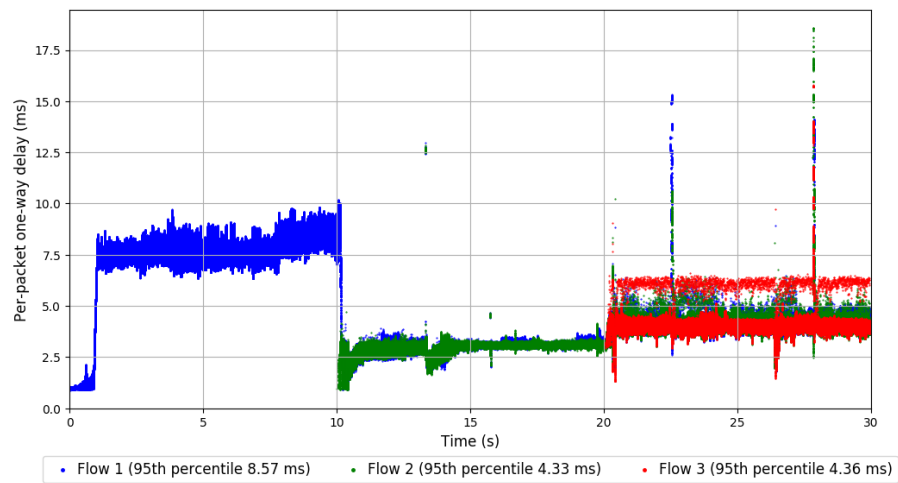
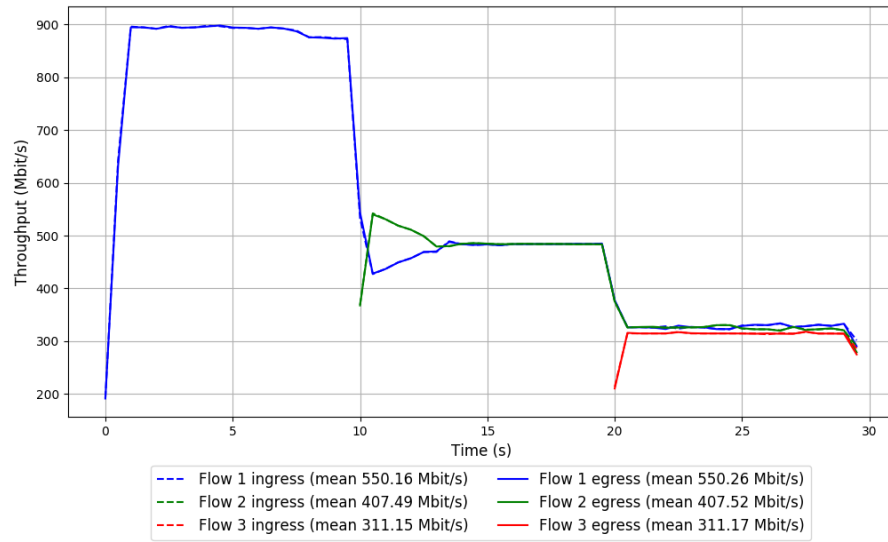


Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 13:35:31  
End at: 2018-02-13 13:36:01  
Local clock offset: -0.117 ms  
Remote clock offset: -6.818 ms

# Below is generated by plot.py at 2018-02-13 23:56:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 924.36 Mbit/s  
95th percentile per-packet one-way delay: 8.367 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 550.26 Mbit/s  
95th percentile per-packet one-way delay: 8.572 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 407.52 Mbit/s  
95th percentile per-packet one-way delay: 4.333 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 311.17 Mbit/s  
95th percentile per-packet one-way delay: 4.363 ms  
Loss rate: 0.23%

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

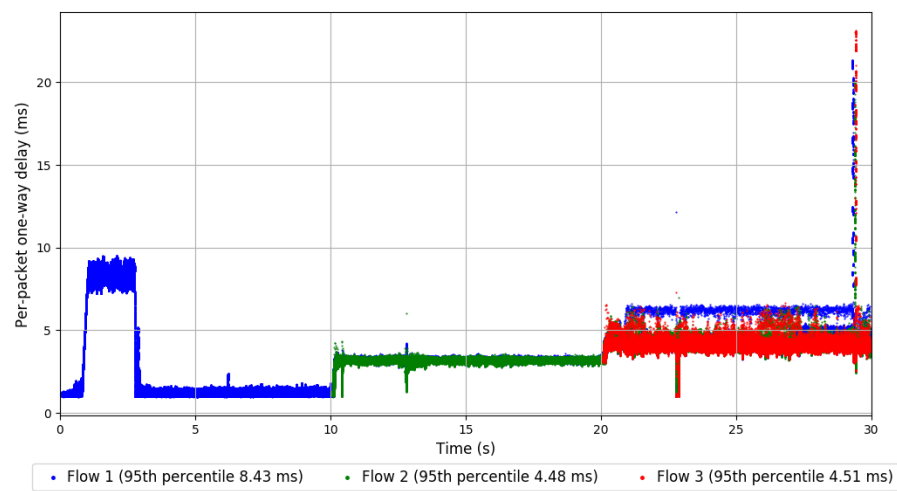
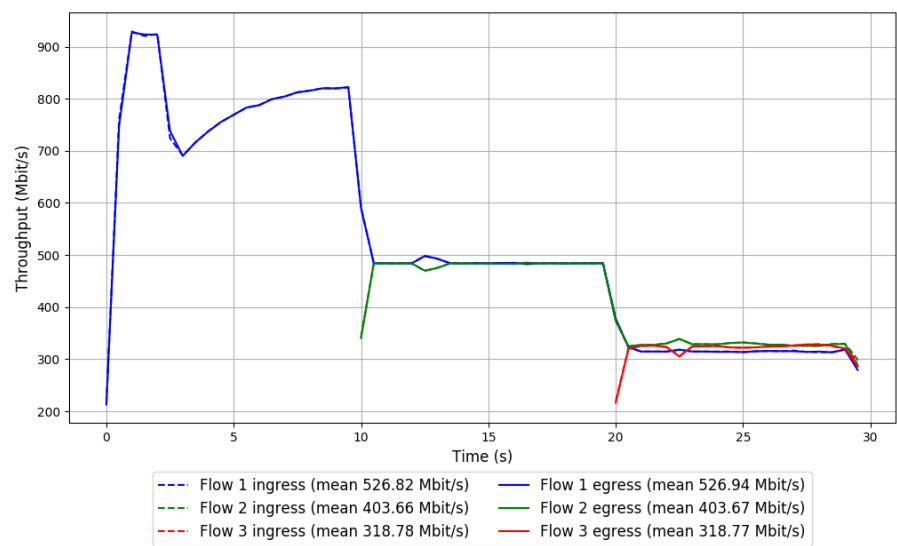


Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 14:04:38  
End at: 2018-02-13 14:05:08  
Local clock offset: 0.128 ms  
Remote clock offset: -5.725 ms

# Below is generated by plot.py at 2018-02-13 23:56:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 901.25 Mbit/s  
95th percentile per-packet one-way delay: 7.878 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 526.94 Mbit/s  
95th percentile per-packet one-way delay: 8.426 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 403.67 Mbit/s  
95th percentile per-packet one-way delay: 4.484 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 318.77 Mbit/s  
95th percentile per-packet one-way delay: 4.515 ms  
Loss rate: 0.21%

Run 2: Report of TCP Cubic — Data Link

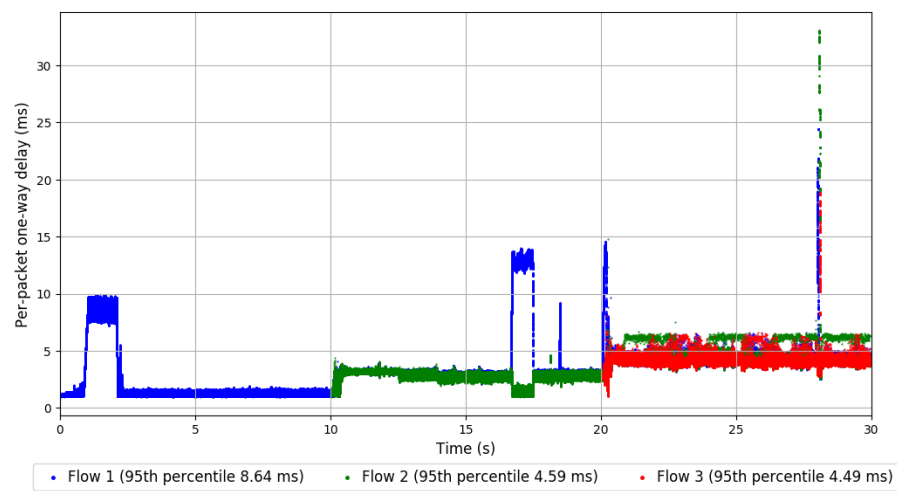
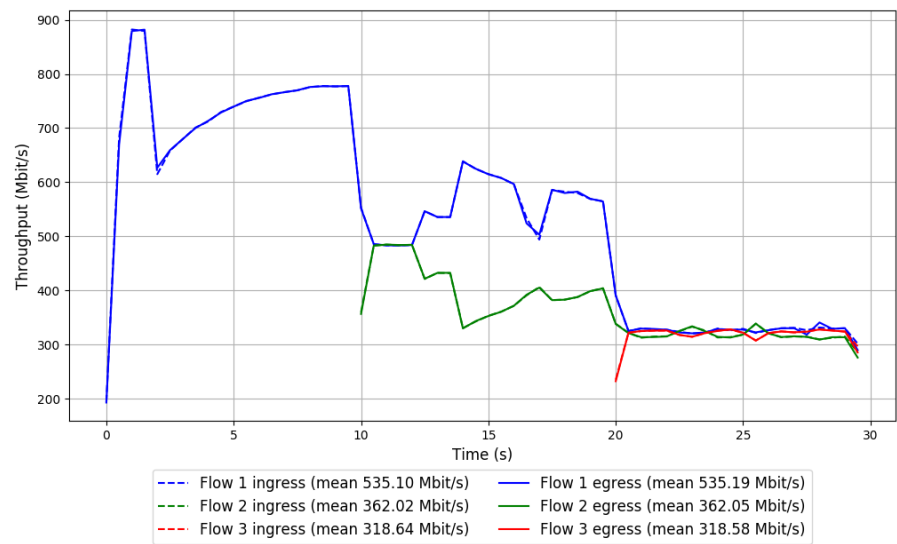


Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 14:33:40  
End at: 2018-02-13 14:34:10  
Local clock offset: 0.323 ms  
Remote clock offset: -5.105 ms

# Below is generated by plot.py at 2018-02-13 23:56:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 881.74 Mbit/s  
95th percentile per-packet one-way delay: 7.916 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 535.19 Mbit/s  
95th percentile per-packet one-way delay: 8.644 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 362.05 Mbit/s  
95th percentile per-packet one-way delay: 4.587 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 318.58 Mbit/s  
95th percentile per-packet one-way delay: 4.489 ms  
Loss rate: 0.22%

Run 3: Report of TCP Cubic — Data Link

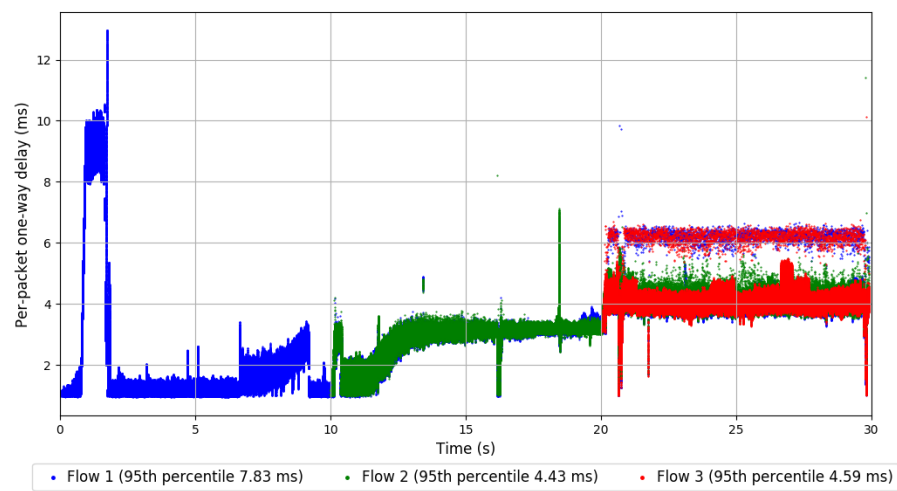
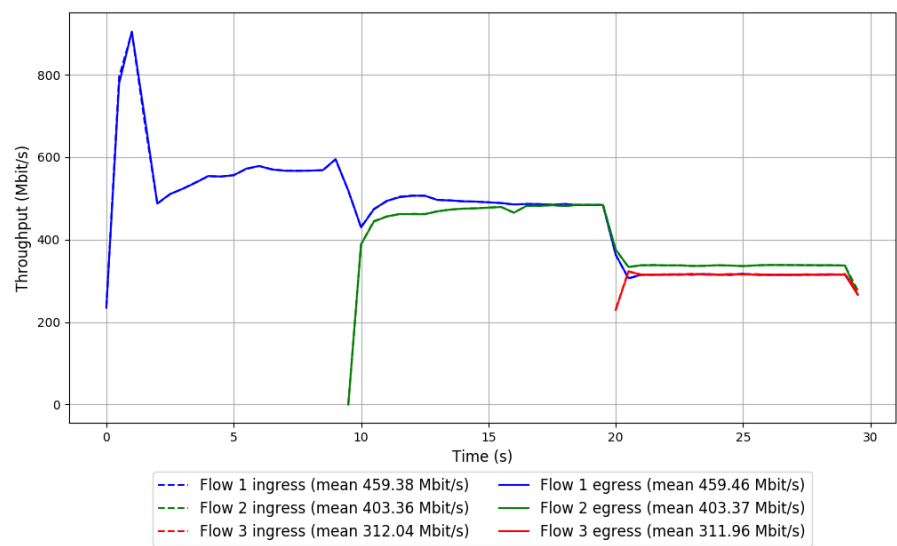


Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 15:02:51  
End at: 2018-02-13 15:03:21  
Local clock offset: 0.521 ms  
Remote clock offset: -5.557 ms

# Below is generated by plot.py at 2018-02-13 23:56:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 831.49 Mbit/s  
95th percentile per-packet one-way delay: 4.526 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 459.46 Mbit/s  
95th percentile per-packet one-way delay: 7.827 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 403.37 Mbit/s  
95th percentile per-packet one-way delay: 4.429 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 311.96 Mbit/s  
95th percentile per-packet one-way delay: 4.587 ms  
Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link

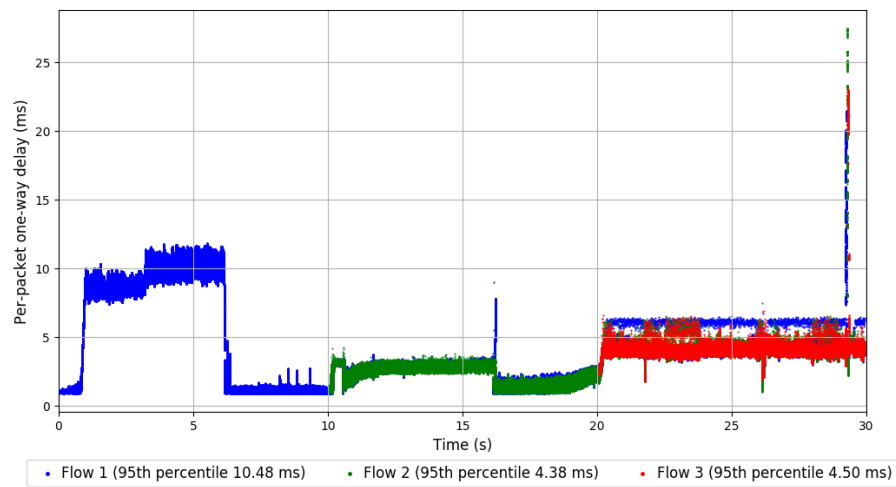
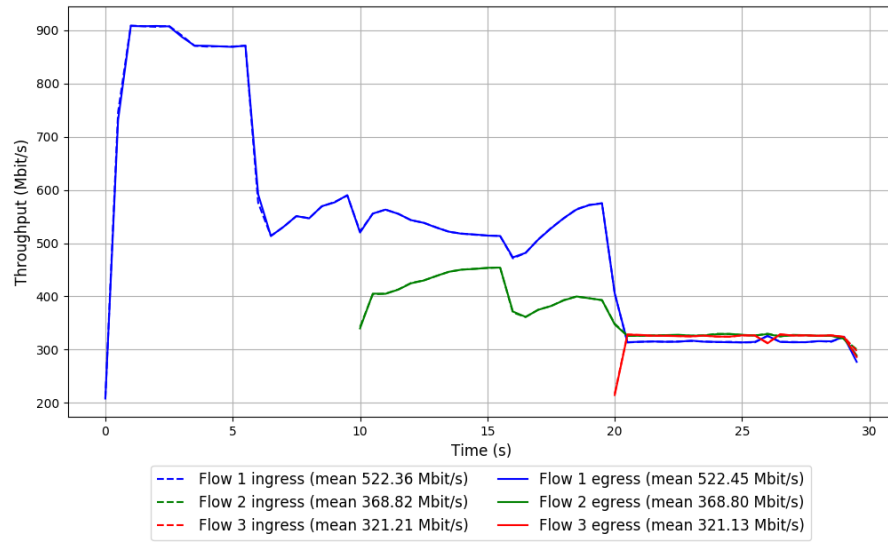


Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 15:31:54  
End at: 2018-02-13 15:32:24  
Local clock offset: 0.282 ms  
Remote clock offset: -6.314 ms

# Below is generated by plot.py at 2018-02-13 23:56:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 874.15 Mbit/s  
95th percentile per-packet one-way delay: 10.035 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 522.45 Mbit/s  
95th percentile per-packet one-way delay: 10.483 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 368.80 Mbit/s  
95th percentile per-packet one-way delay: 4.382 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 321.13 Mbit/s  
95th percentile per-packet one-way delay: 4.504 ms  
Loss rate: 0.22%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 16:01:05

End at: 2018-02-13 16:01:35

Local clock offset: -0.179 ms

Remote clock offset: -7.12 ms

# Below is generated by plot.py at 2018-02-13 23:56:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 854.03 Mbit/s

95th percentile per-packet one-way delay: 6.797 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 490.95 Mbit/s

95th percentile per-packet one-way delay: 7.108 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 389.29 Mbit/s

95th percentile per-packet one-way delay: 4.479 ms

Loss rate: 0.09%

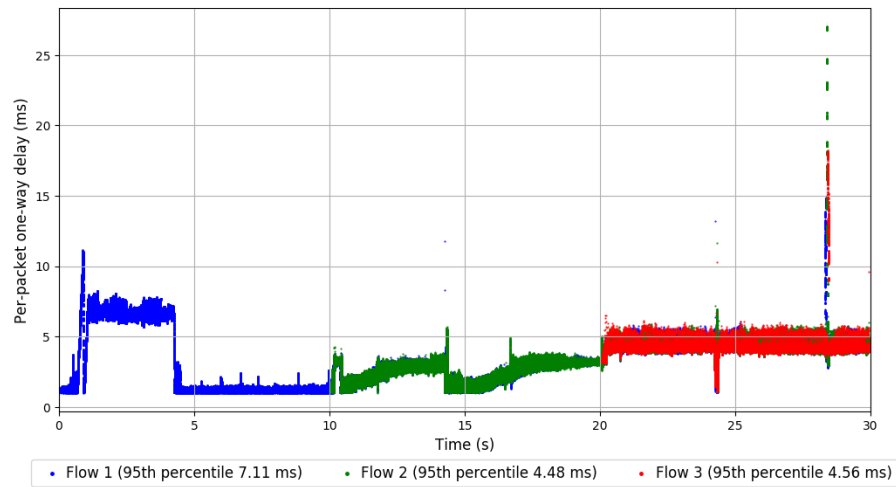
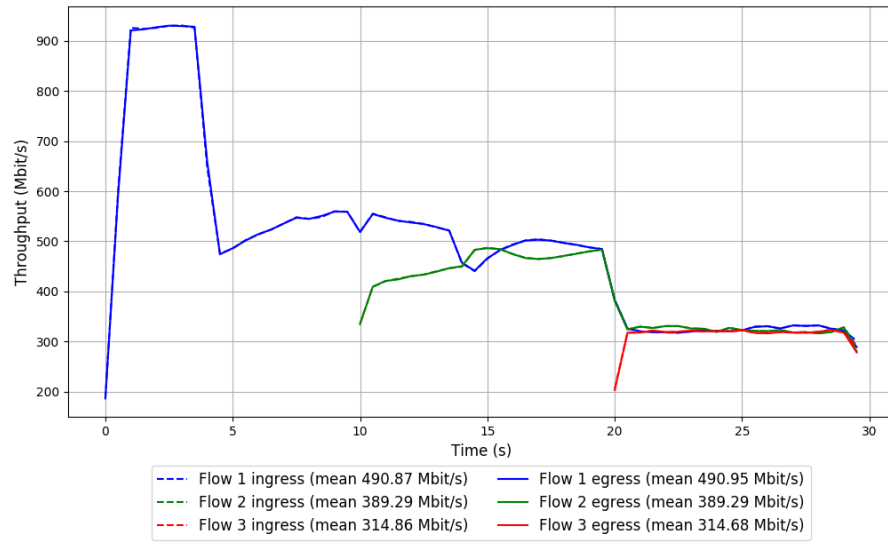
-- Flow 3:

Average throughput: 314.68 Mbit/s

95th percentile per-packet one-way delay: 4.559 ms

Loss rate: 0.22%

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

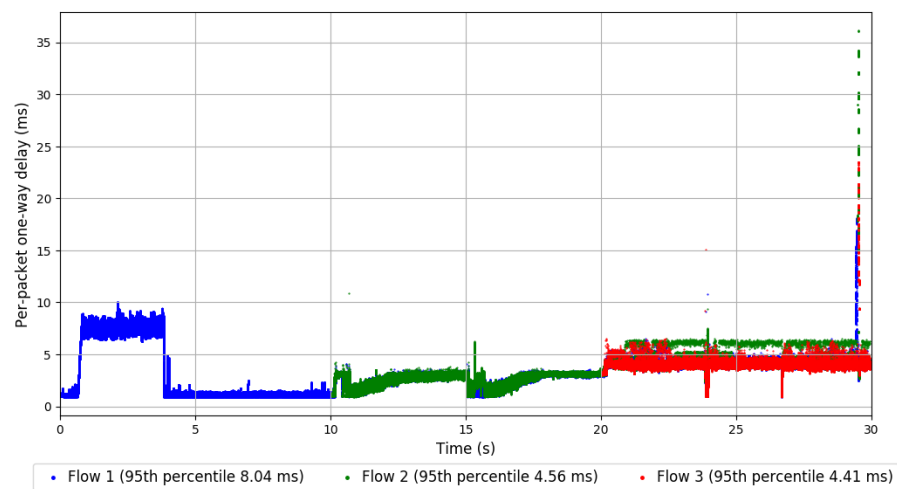
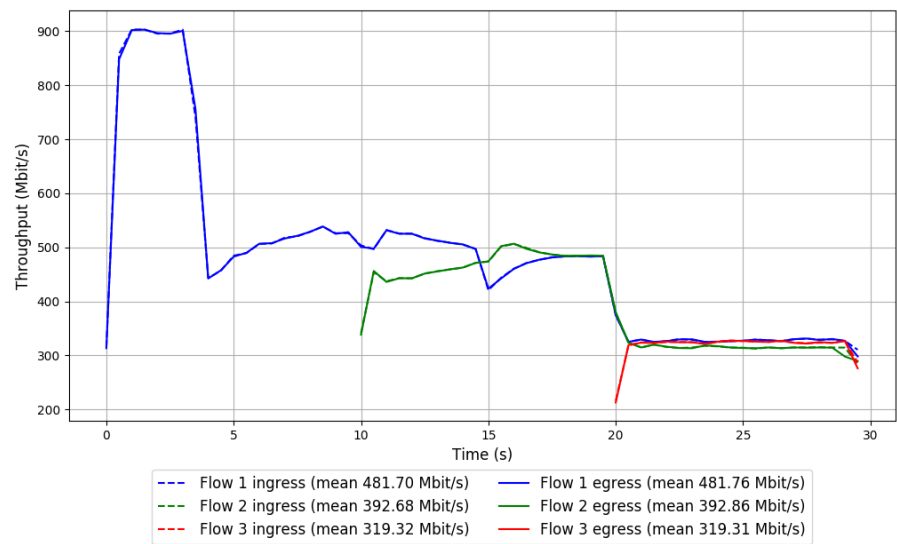


Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 16:30:05  
End at: 2018-02-13 16:30:35  
Local clock offset: -0.492 ms  
Remote clock offset: -6.984 ms

# Below is generated by plot.py at 2018-02-14 00:06:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 848.74 Mbit/s  
95th percentile per-packet one-way delay: 7.692 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 481.76 Mbit/s  
95th percentile per-packet one-way delay: 8.035 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 392.86 Mbit/s  
95th percentile per-packet one-way delay: 4.563 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 319.31 Mbit/s  
95th percentile per-packet one-way delay: 4.408 ms  
Loss rate: 0.22%

Run 7: Report of TCP Cubic — Data Link

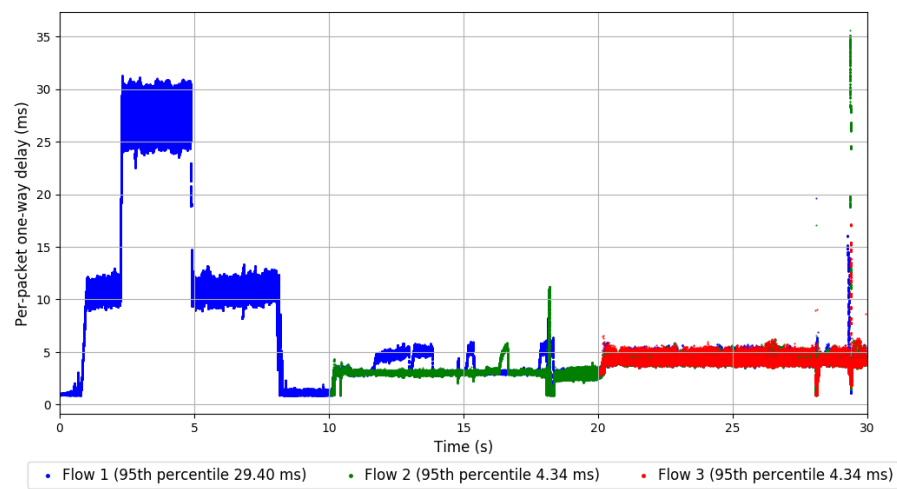
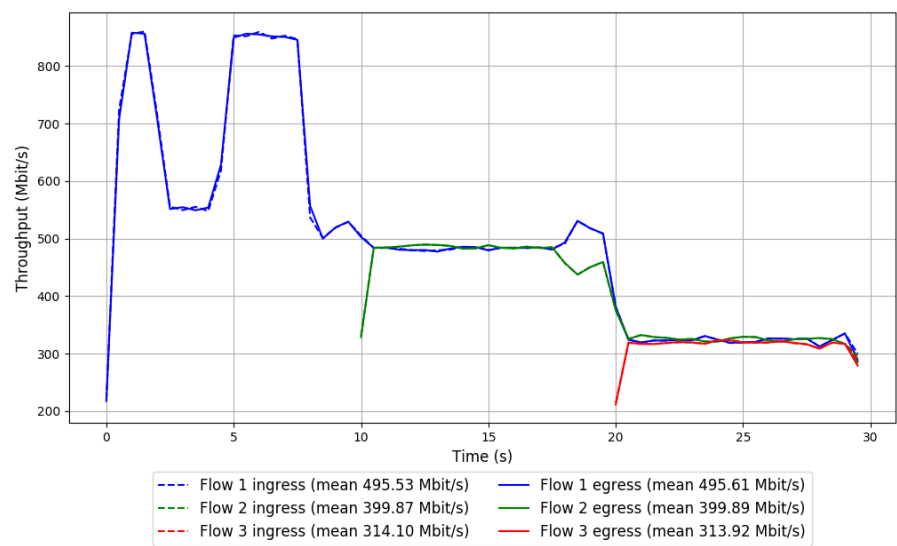


Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 16:59:00  
End at: 2018-02-13 16:59:30  
Local clock offset: 1.931 ms  
Remote clock offset: -4.513 ms

# Below is generated by plot.py at 2018-02-14 00:07:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 865.36 Mbit/s  
95th percentile per-packet one-way delay: 25.544 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 495.61 Mbit/s  
95th percentile per-packet one-way delay: 29.403 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 399.89 Mbit/s  
95th percentile per-packet one-way delay: 4.344 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 313.92 Mbit/s  
95th percentile per-packet one-way delay: 4.342 ms  
Loss rate: 0.23%

Run 8: Report of TCP Cubic — Data Link

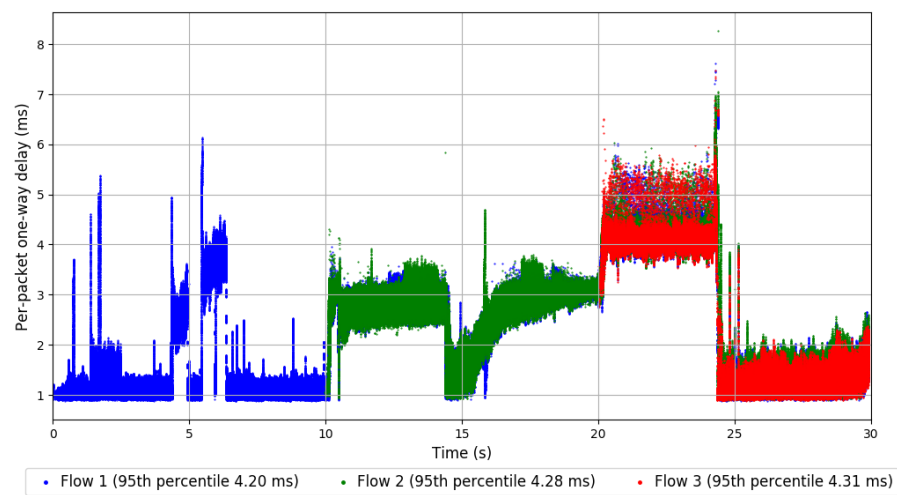
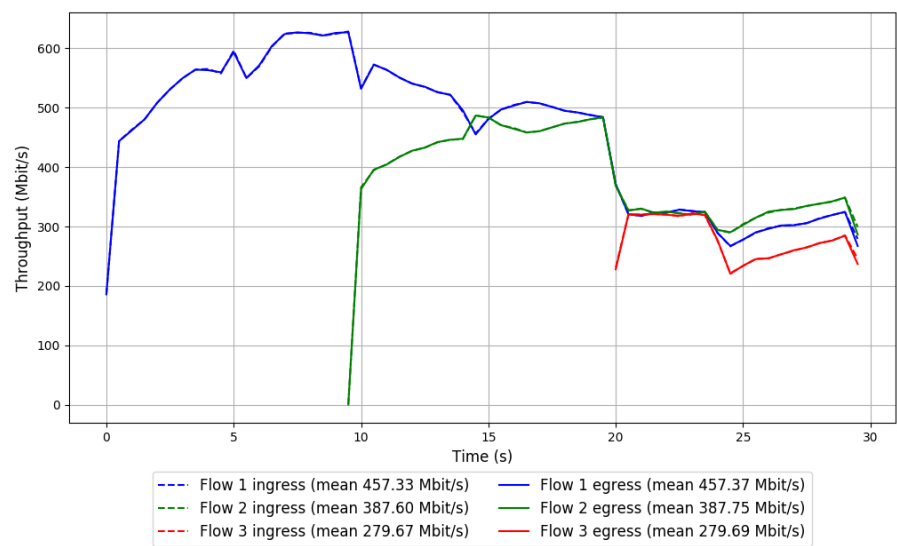


Run 9: Statistics of TCP Cubic

Start at: 2018-02-13 17:28:03  
End at: 2018-02-13 17:28:33  
Local clock offset: 3.327 ms  
Remote clock offset: -4.956 ms

# Below is generated by plot.py at 2018-02-14 00:07:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 808.34 Mbit/s  
95th percentile per-packet one-way delay: 4.259 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 457.37 Mbit/s  
95th percentile per-packet one-way delay: 4.204 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 387.75 Mbit/s  
95th percentile per-packet one-way delay: 4.284 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 279.69 Mbit/s  
95th percentile per-packet one-way delay: 4.308 ms  
Loss rate: 0.21%

Run 9: Report of TCP Cubic — Data Link

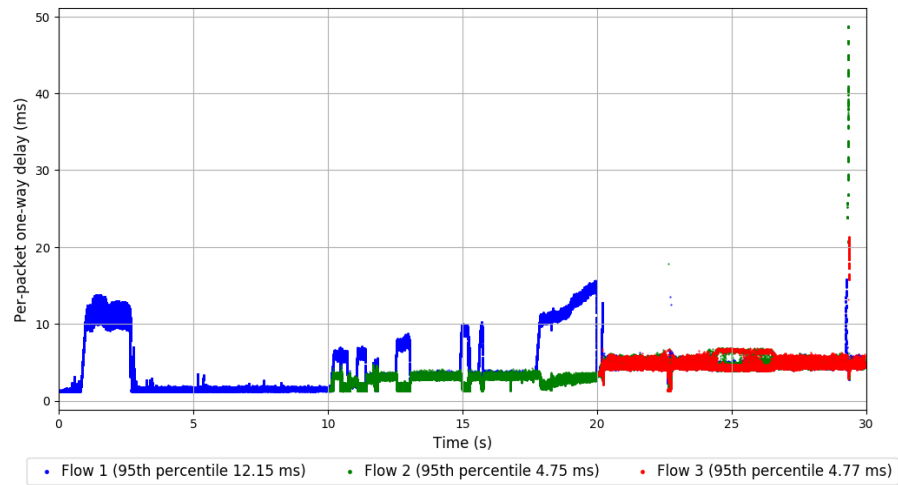
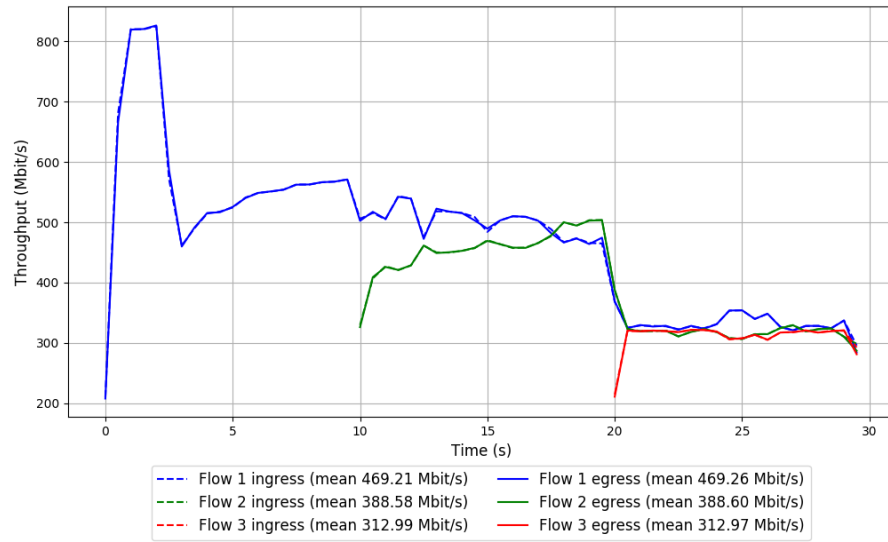


Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 17:57:15  
End at: 2018-02-13 17:57:45  
Local clock offset: 2.495 ms  
Remote clock offset: -5.206 ms

# Below is generated by plot.py at 2018-02-14 00:07:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 831.20 Mbit/s  
95th percentile per-packet one-way delay: 11.247 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 469.26 Mbit/s  
95th percentile per-packet one-way delay: 12.146 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 388.60 Mbit/s  
95th percentile per-packet one-way delay: 4.749 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 312.97 Mbit/s  
95th percentile per-packet one-way delay: 4.768 ms  
Loss rate: 0.22%

# Run 10: Report of TCP Cubic — Data Link

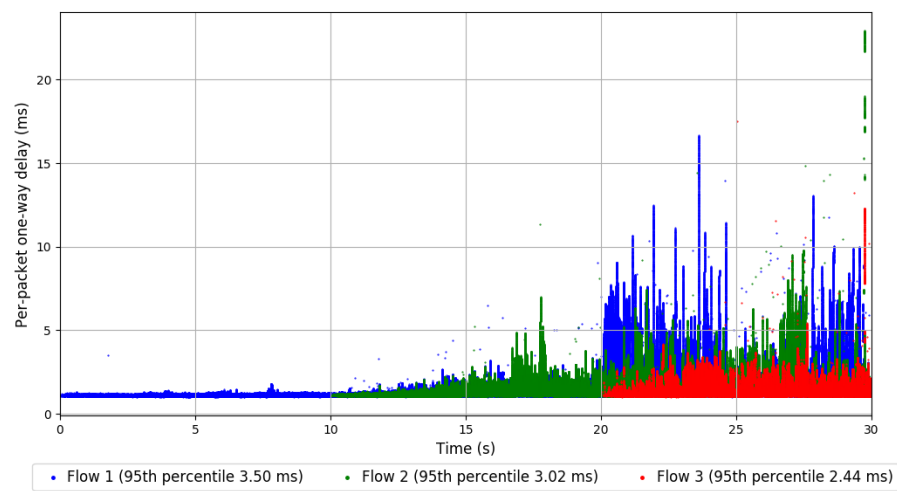
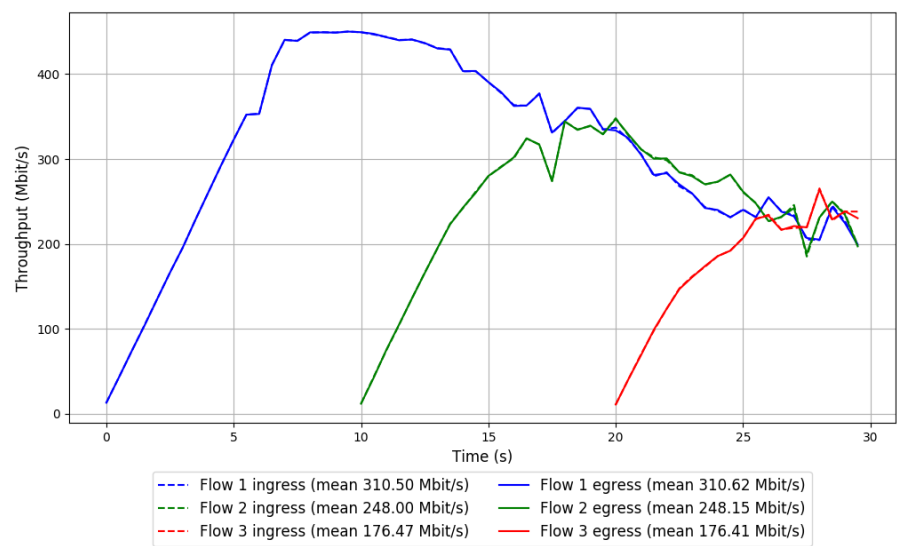


Run 1: Statistics of LEDBAT

Start at: 2018-02-13 13:53:04  
End at: 2018-02-13 13:53:34  
Local clock offset: -0.01 ms  
Remote clock offset: -6.177 ms

# Below is generated by plot.py at 2018-02-14 00:07:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 533.95 Mbit/s  
95th percentile per-packet one-way delay: 3.129 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 310.62 Mbit/s  
95th percentile per-packet one-way delay: 3.500 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 248.15 Mbit/s  
95th percentile per-packet one-way delay: 3.021 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 176.41 Mbit/s  
95th percentile per-packet one-way delay: 2.440 ms  
Loss rate: 0.22%

Run 1: Report of LEDBAT — Data Link

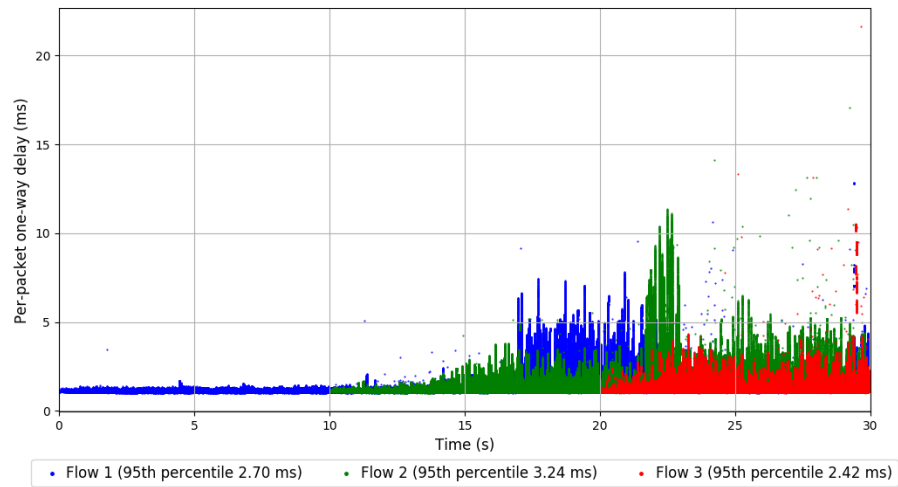
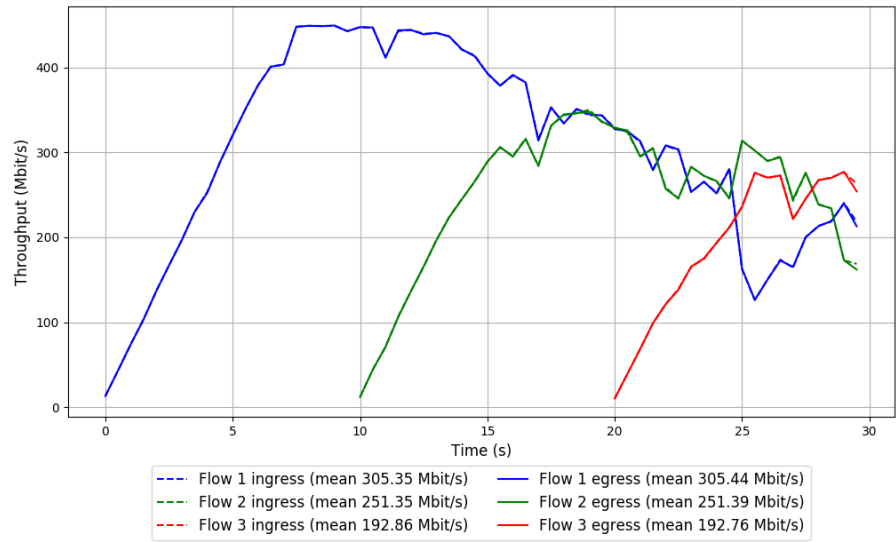


Run 2: Statistics of LEDBAT

Start at: 2018-02-13 14:22:04  
End at: 2018-02-13 14:22:34  
Local clock offset: 0.241 ms  
Remote clock offset: -5.417 ms

# Below is generated by plot.py at 2018-02-14 00:07:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 536.29 Mbit/s  
95th percentile per-packet one-way delay: 2.822 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 305.44 Mbit/s  
95th percentile per-packet one-way delay: 2.696 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 251.39 Mbit/s  
95th percentile per-packet one-way delay: 3.237 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 192.76 Mbit/s  
95th percentile per-packet one-way delay: 2.420 ms  
Loss rate: 0.24%

## Run 2: Report of LEDBAT — Data Link

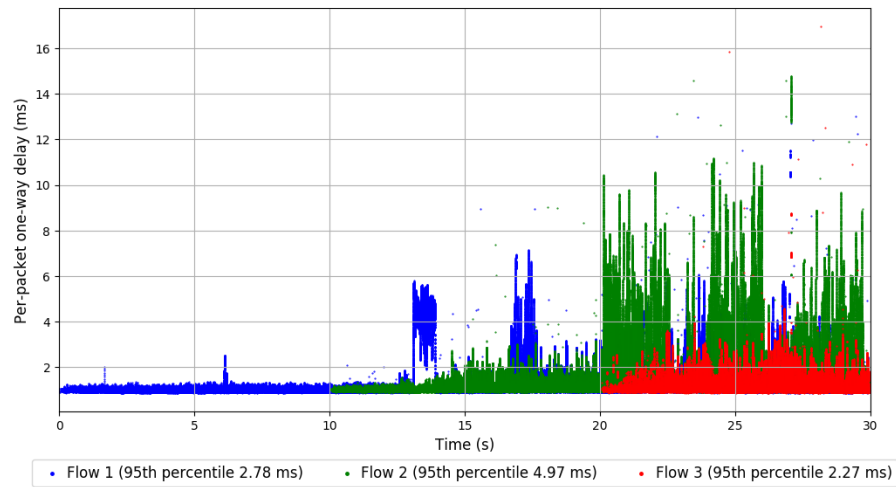
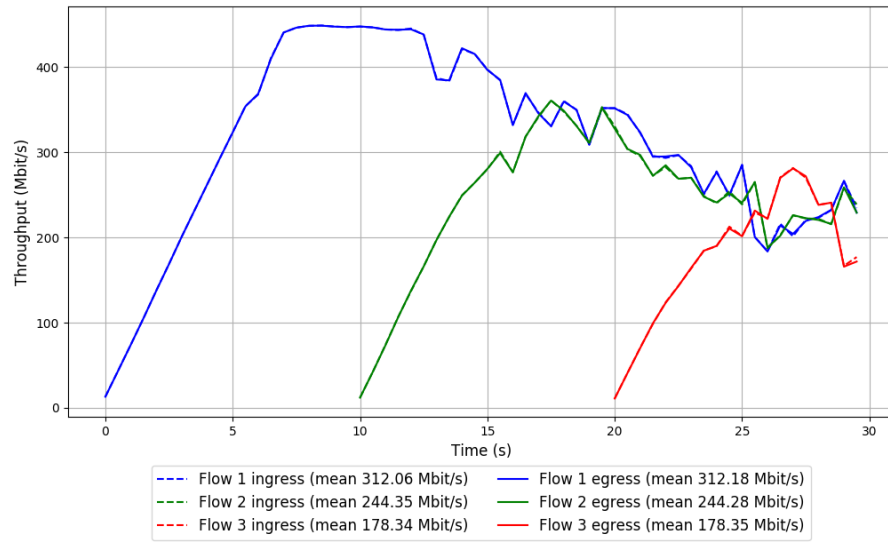


Run 3: Statistics of LEDBAT

Start at: 2018-02-13 14:51:14  
End at: 2018-02-13 14:51:44  
Local clock offset: 0.352 ms  
Remote clock offset: -4.799 ms

# Below is generated by plot.py at 2018-02-14 00:07:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 533.54 Mbit/s  
95th percentile per-packet one-way delay: 3.700 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 312.18 Mbit/s  
95th percentile per-packet one-way delay: 2.777 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 244.28 Mbit/s  
95th percentile per-packet one-way delay: 4.969 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 178.35 Mbit/s  
95th percentile per-packet one-way delay: 2.267 ms  
Loss rate: 0.18%

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



Run 4: Statistics of LEDBAT

Start at: 2018-02-13 15:20:23

End at: 2018-02-13 15:20:53

Local clock offset: 0.328 ms

Remote clock offset: -5.87 ms

# Below is generated by plot.py at 2018-02-14 00:07:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 532.16 Mbit/s

95th percentile per-packet one-way delay: 2.771 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 297.16 Mbit/s

95th percentile per-packet one-way delay: 2.481 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 251.28 Mbit/s

95th percentile per-packet one-way delay: 2.841 ms

Loss rate: 0.09%

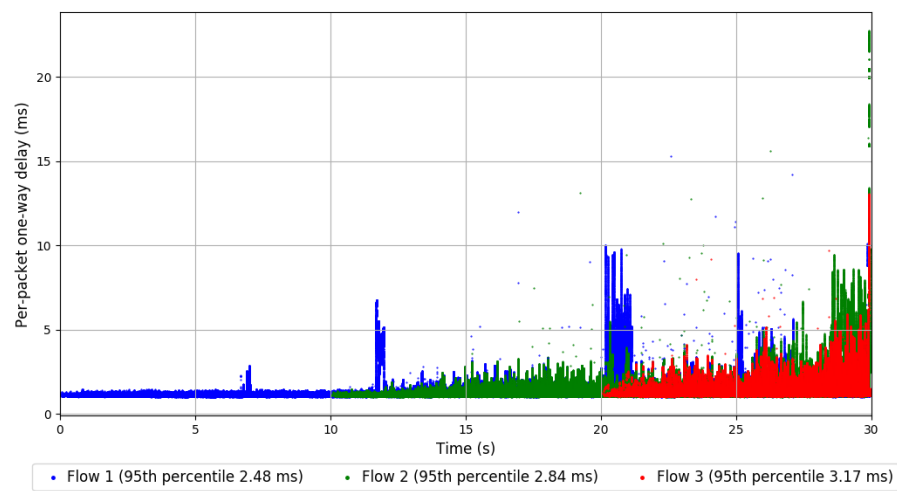
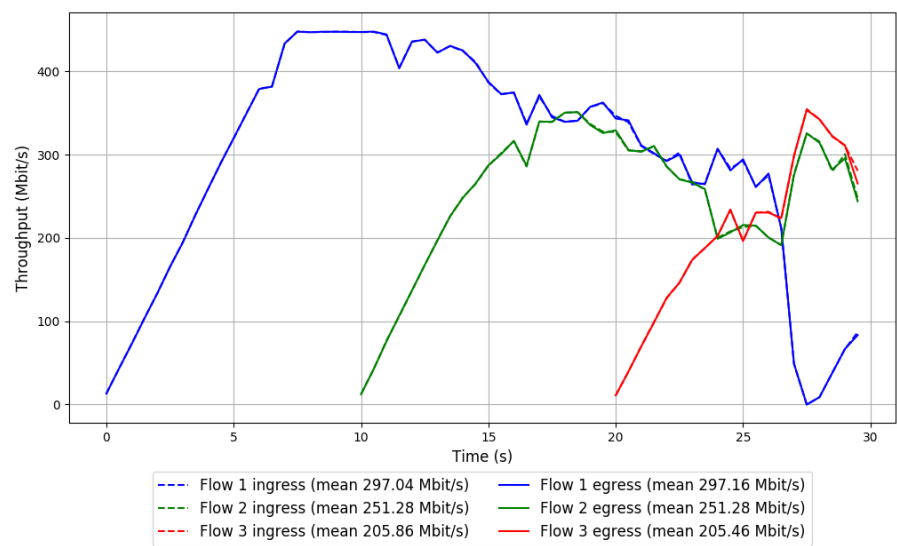
-- Flow 3:

Average throughput: 205.46 Mbit/s

95th percentile per-packet one-way delay: 3.166 ms

Loss rate: 0.37%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-13 15:49:26

End at: 2018-02-13 15:49:56

Local clock offset: -0.162 ms

Remote clock offset: -7.0 ms

# Below is generated by plot.py at 2018-02-14 00:10:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 531.88 Mbit/s

95th percentile per-packet one-way delay: 3.083 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 312.07 Mbit/s

95th percentile per-packet one-way delay: 3.046 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 234.10 Mbit/s

95th percentile per-packet one-way delay: 3.021 ms

Loss rate: 0.10%

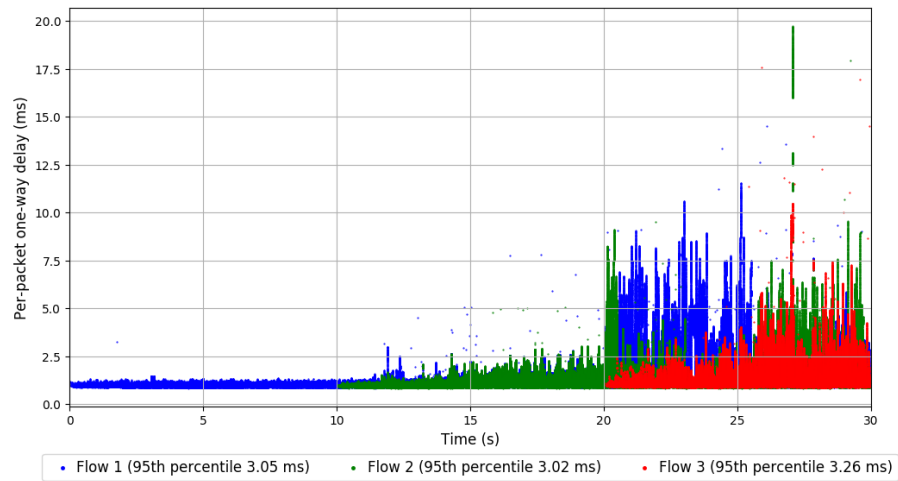
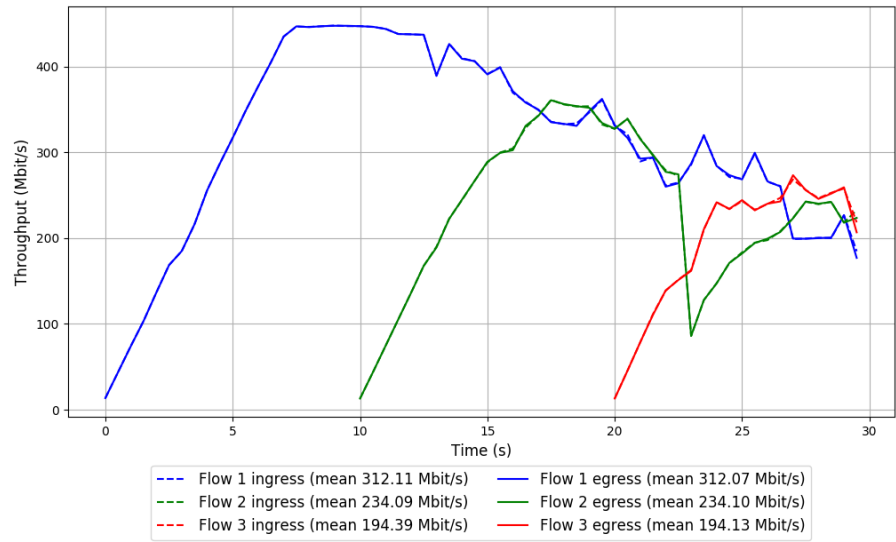
-- Flow 3:

Average throughput: 194.13 Mbit/s

95th percentile per-packet one-way delay: 3.256 ms

Loss rate: 0.32%

## Run 5: Report of LEDBAT — Data Link

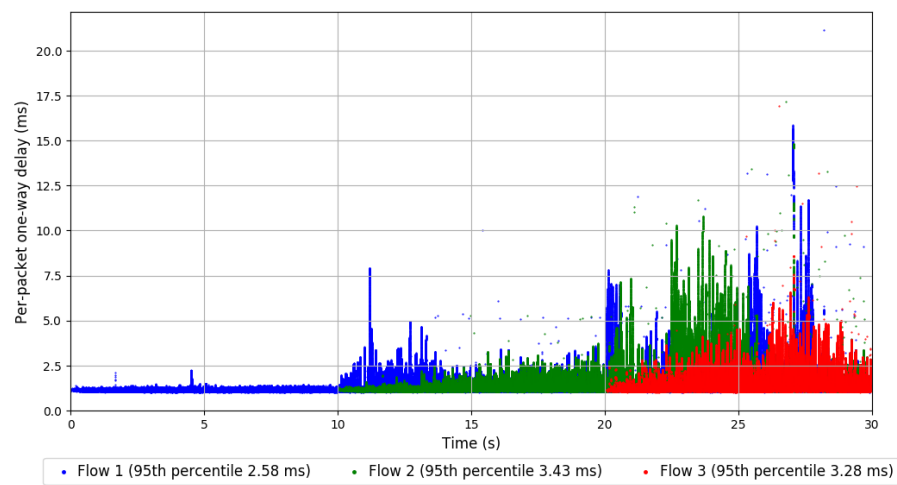
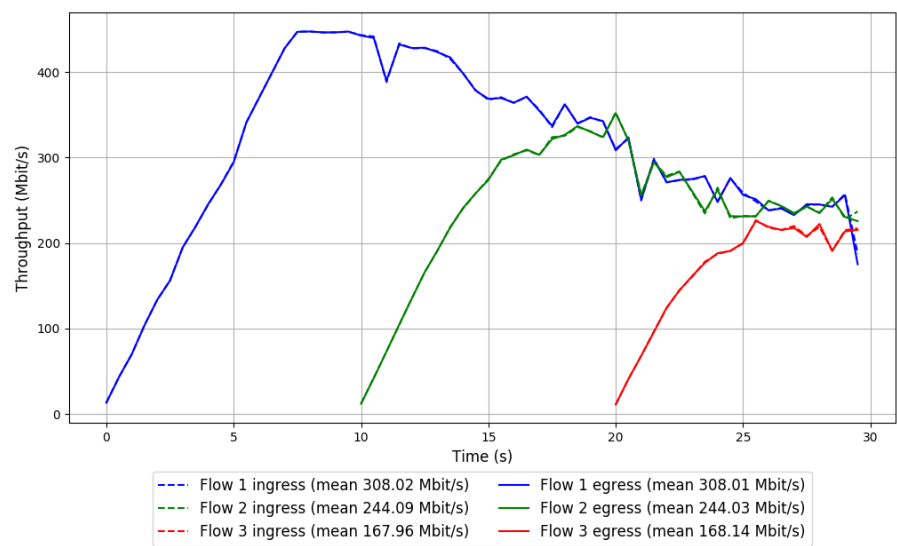


Run 6: Statistics of LEDBAT

Start at: 2018-02-13 16:18:38  
End at: 2018-02-13 16:19:08  
Local clock offset: -0.315 ms  
Remote clock offset: -7.003 ms

# Below is generated by plot.py at 2018-02-14 00:10:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 525.84 Mbit/s  
95th percentile per-packet one-way delay: 2.926 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 308.01 Mbit/s  
95th percentile per-packet one-way delay: 2.585 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 244.03 Mbit/s  
95th percentile per-packet one-way delay: 3.430 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 168.14 Mbit/s  
95th percentile per-packet one-way delay: 3.281 ms  
Loss rate: 0.10%

Run 6: Report of LEDBAT — Data Link

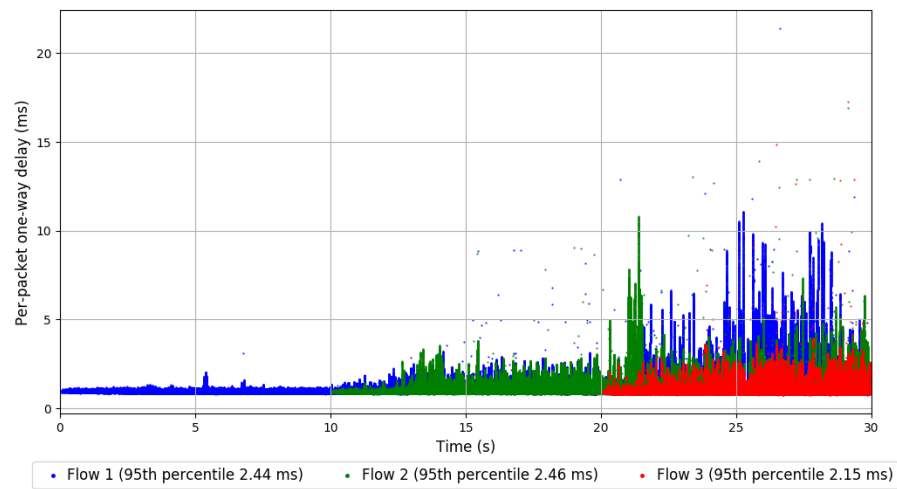
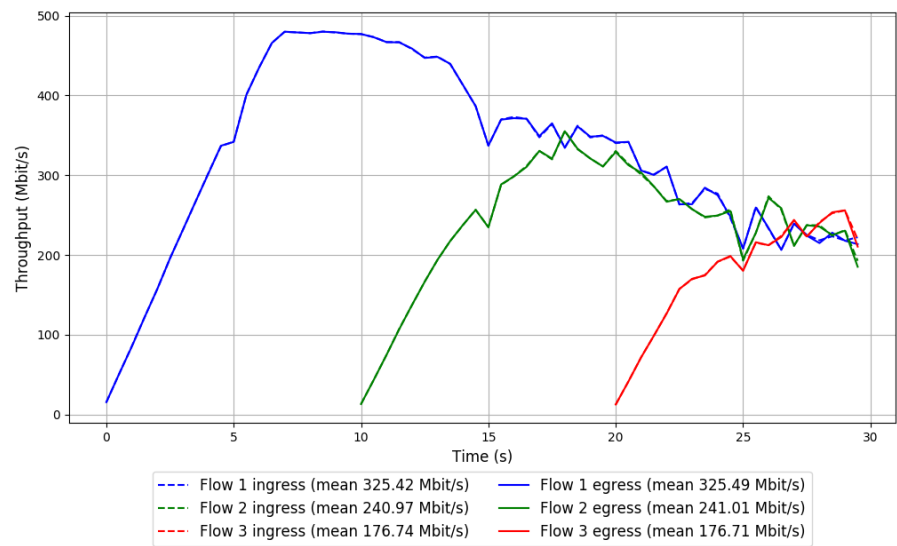


Run 7: Statistics of LEDBAT

Start at: 2018-02-13 16:47:33  
End at: 2018-02-13 16:48:03  
Local clock offset: 0.171 ms  
Remote clock offset: -5.338 ms

# Below is generated by plot.py at 2018-02-14 00:11:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 544.32 Mbit/s  
95th percentile per-packet one-way delay: 2.398 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 325.49 Mbit/s  
95th percentile per-packet one-way delay: 2.445 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 241.01 Mbit/s  
95th percentile per-packet one-way delay: 2.457 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 176.71 Mbit/s  
95th percentile per-packet one-way delay: 2.149 ms  
Loss rate: 0.26%

Run 7: Report of LEDBAT — Data Link

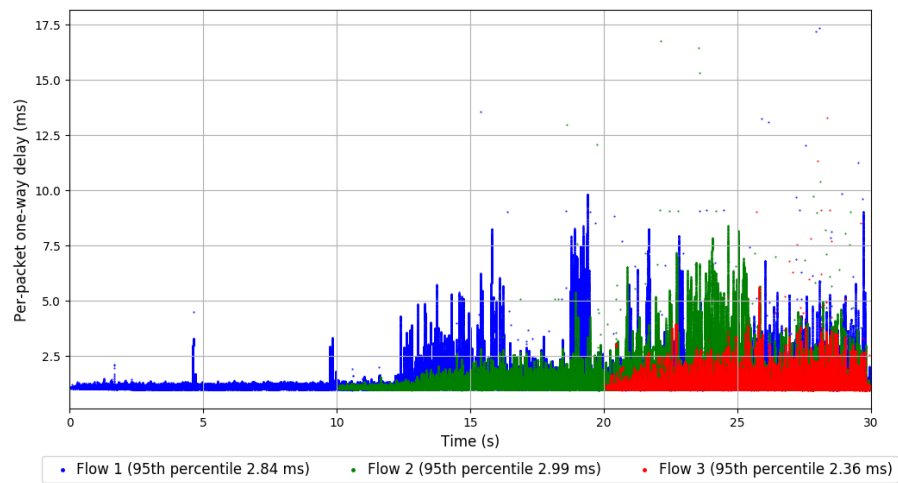
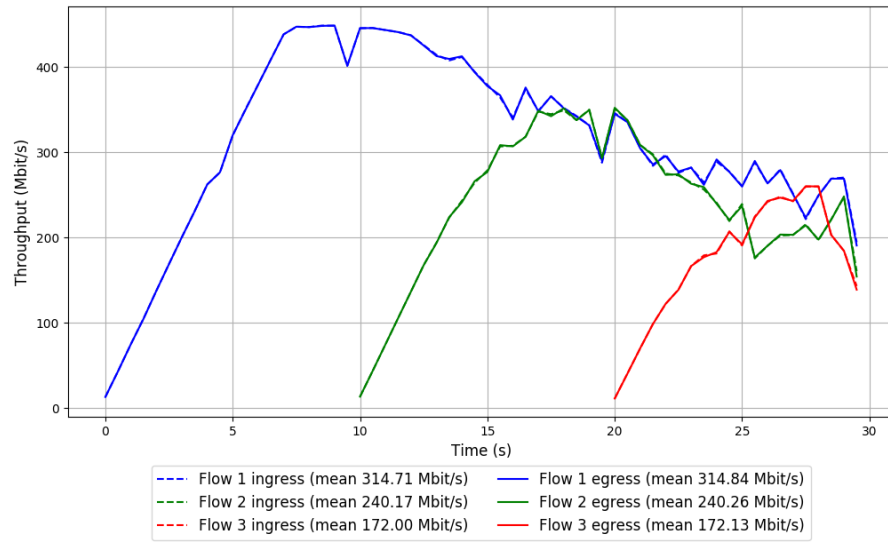


Run 8: Statistics of LEDBAT

Start at: 2018-02-13 17:16:28  
End at: 2018-02-13 17:16:58  
Local clock offset: 2.958 ms  
Remote clock offset: -4.826 ms

```
# Below is generated by plot.py at 2018-02-14 00:11:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 531.59 Mbit/s
95th percentile per-packet one-way delay: 2.822 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 314.84 Mbit/s
95th percentile per-packet one-way delay: 2.843 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 240.26 Mbit/s
95th percentile per-packet one-way delay: 2.989 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 172.13 Mbit/s
95th percentile per-packet one-way delay: 2.360 ms
Loss rate: 0.12%
```

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 17:45:31

End at: 2018-02-13 17:46:01

Local clock offset: 4.014 ms

Remote clock offset: -4.82 ms

# Below is generated by plot.py at 2018-02-14 00:13:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 528.61 Mbit/s

95th percentile per-packet one-way delay: 3.846 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 302.93 Mbit/s

95th percentile per-packet one-way delay: 2.360 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 243.83 Mbit/s

95th percentile per-packet one-way delay: 4.691 ms

Loss rate: 0.09%

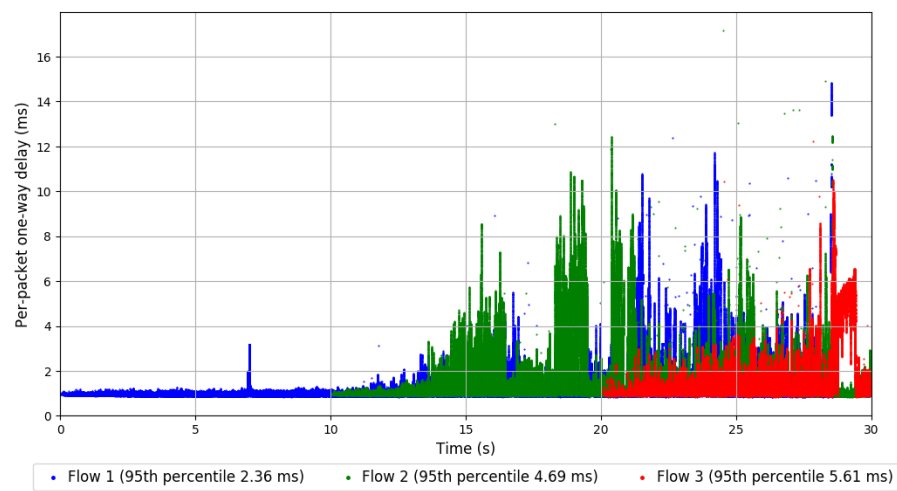
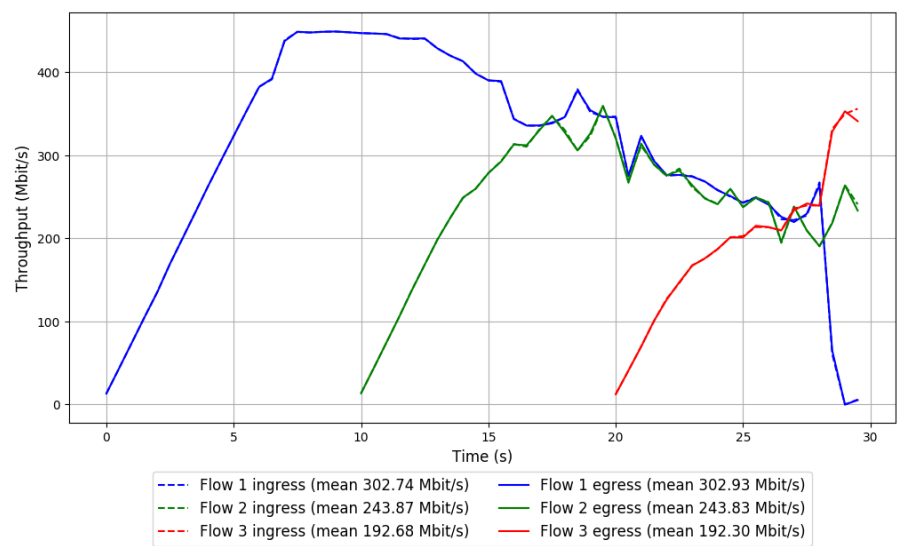
-- Flow 3:

Average throughput: 192.30 Mbit/s

95th percentile per-packet one-way delay: 5.607 ms

Loss rate: 0.40%

Run 9: Report of LEDBAT — Data Link

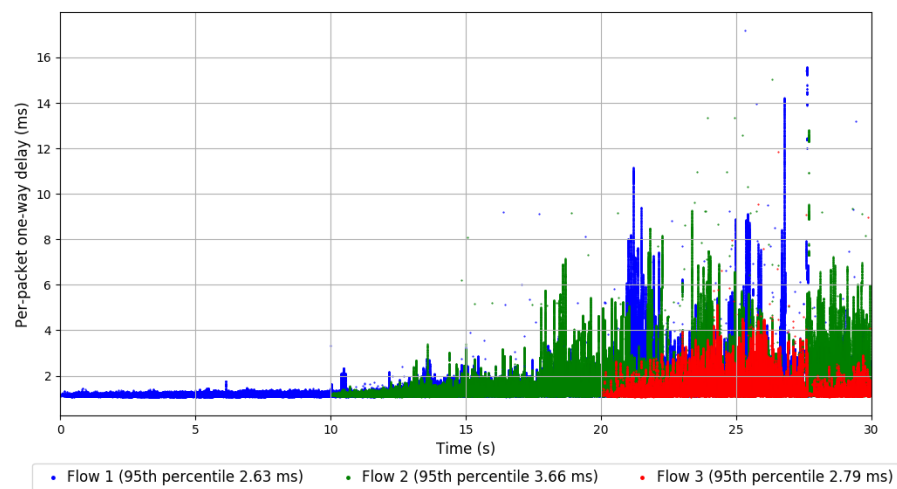
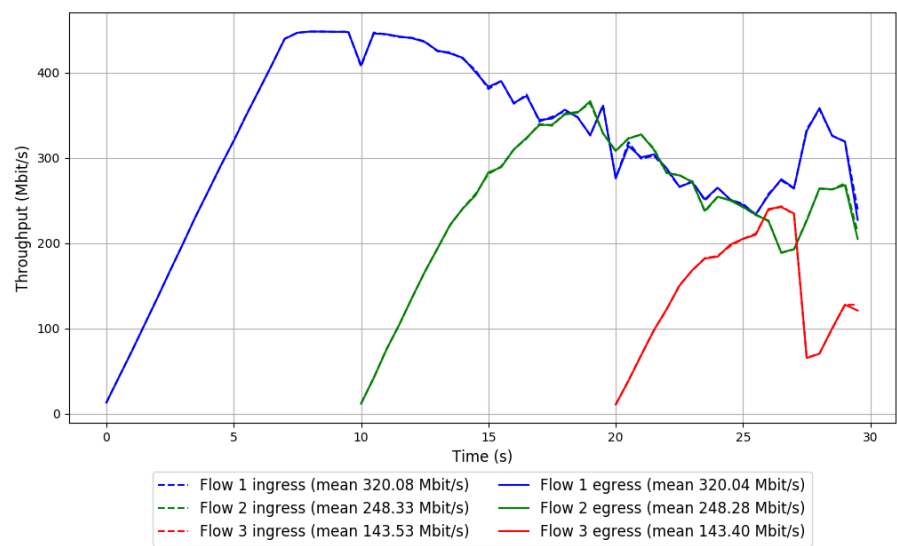


Run 10: Statistics of LEDBAT

Start at: 2018-02-13 18:14:47  
End at: 2018-02-13 18:15:17  
Local clock offset: -0.553 ms  
Remote clock offset: -5.286 ms

# Below is generated by plot.py at 2018-02-14 00:14:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 532.55 Mbit/s  
95th percentile per-packet one-way delay: 3.032 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 320.04 Mbit/s  
95th percentile per-packet one-way delay: 2.628 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 248.28 Mbit/s  
95th percentile per-packet one-way delay: 3.662 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 143.40 Mbit/s  
95th percentile per-packet one-way delay: 2.786 ms  
Loss rate: 0.24%

Run 10: Report of LEDBAT — Data Link

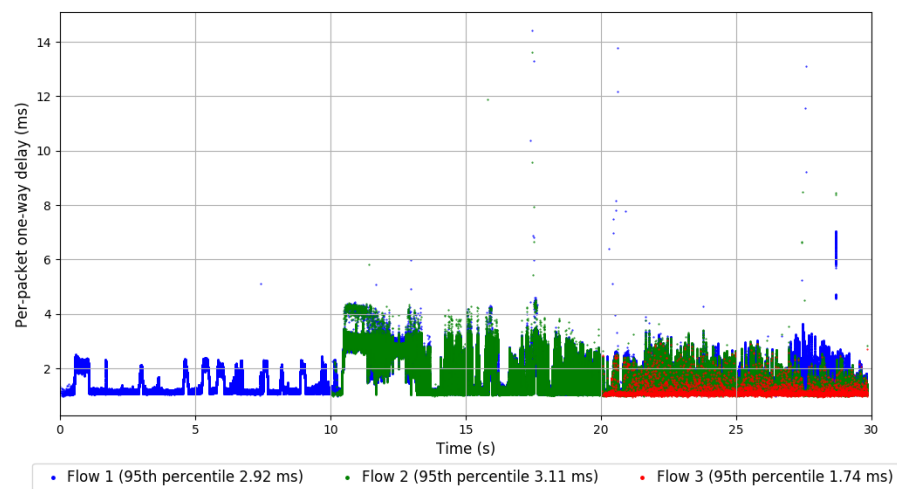
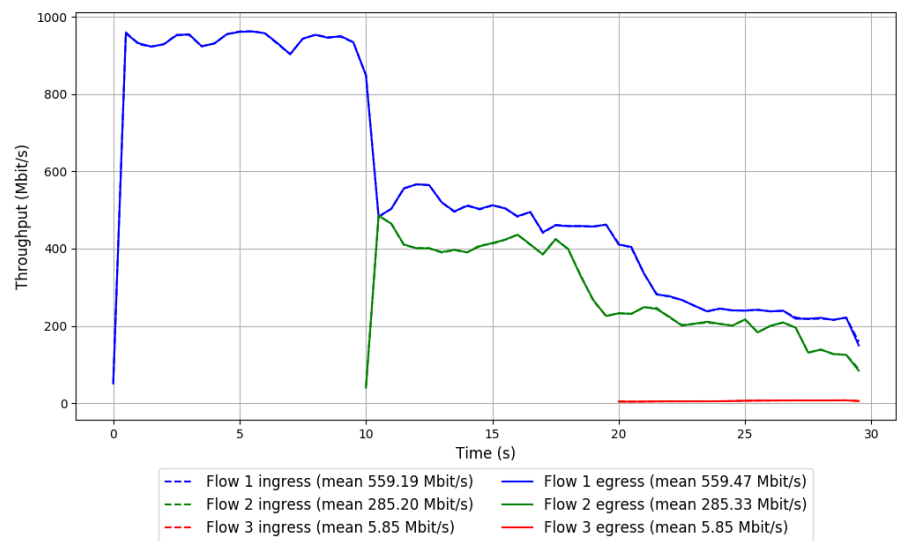


Run 1: Statistics of PCC

Start at: 2018-02-13 13:37:24  
End at: 2018-02-13 13:37:54  
Local clock offset: -0.011 ms  
Remote clock offset: -6.801 ms

# Below is generated by plot.py at 2018-02-14 00:17:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 750.79 Mbit/s  
95th percentile per-packet one-way delay: 3.007 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 559.47 Mbit/s  
95th percentile per-packet one-way delay: 2.921 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 285.33 Mbit/s  
95th percentile per-packet one-way delay: 3.108 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 5.85 Mbit/s  
95th percentile per-packet one-way delay: 1.735 ms  
Loss rate: 0.23%

Run 1: Report of PCC — Data Link

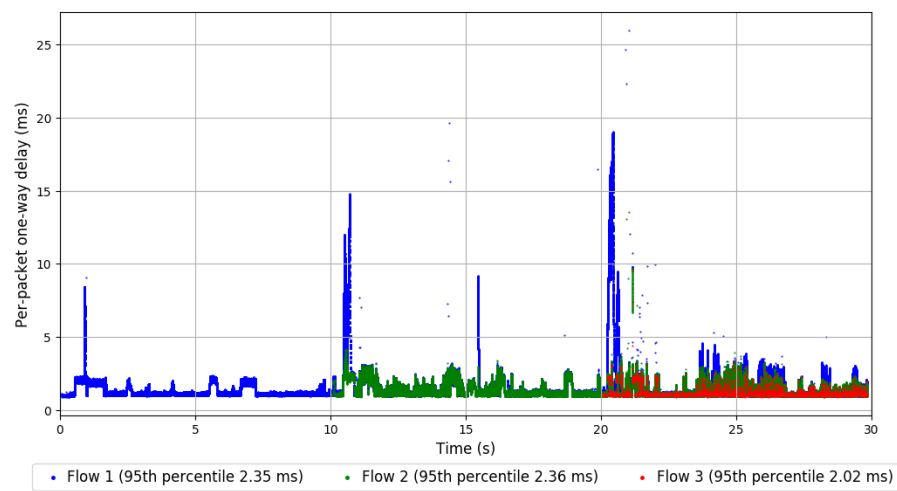
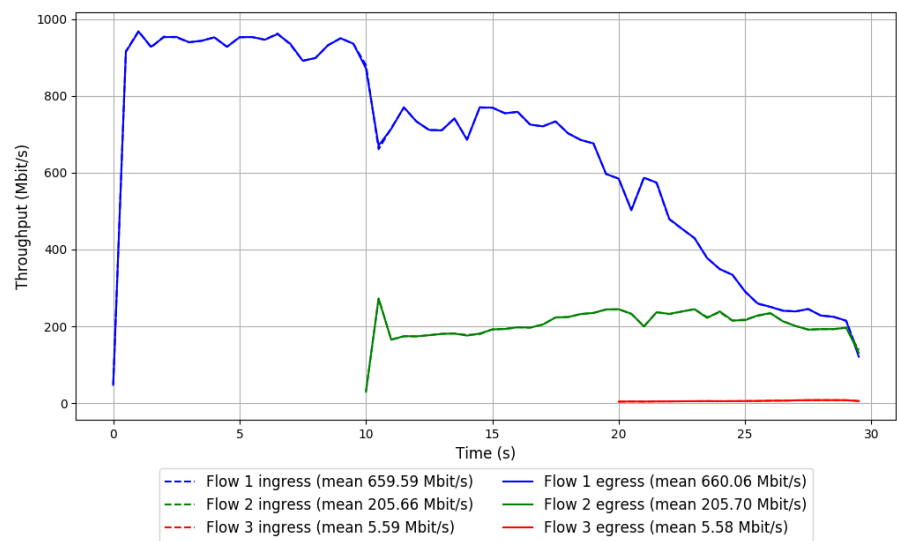


Run 2: Statistics of PCC

Start at: 2018-02-13 14:06:30  
End at: 2018-02-13 14:07:00  
Local clock offset: 0.119 ms  
Remote clock offset: -5.674 ms

# Below is generated by plot.py at 2018-02-14 00:17:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 798.21 Mbit/s  
95th percentile per-packet one-way delay: 2.350 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 660.06 Mbit/s  
95th percentile per-packet one-way delay: 2.346 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 205.70 Mbit/s  
95th percentile per-packet one-way delay: 2.362 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 5.58 Mbit/s  
95th percentile per-packet one-way delay: 2.018 ms  
Loss rate: 0.24%

Run 2: Report of PCC — Data Link

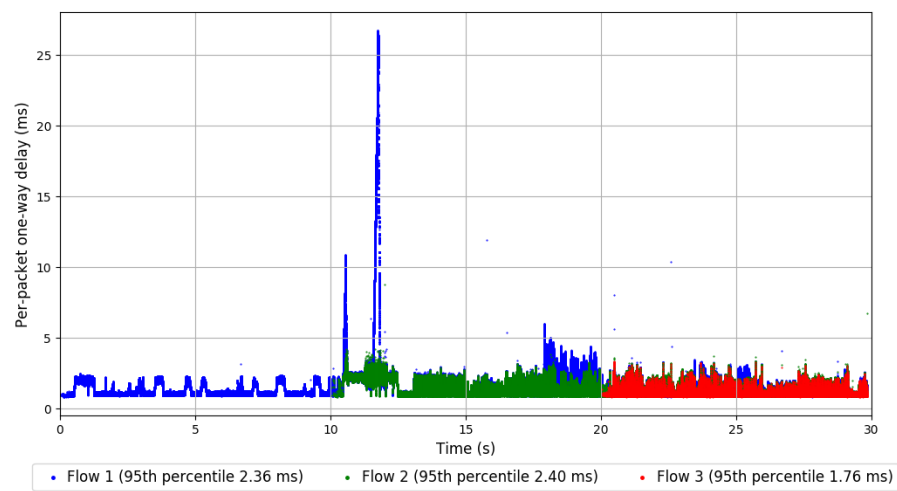
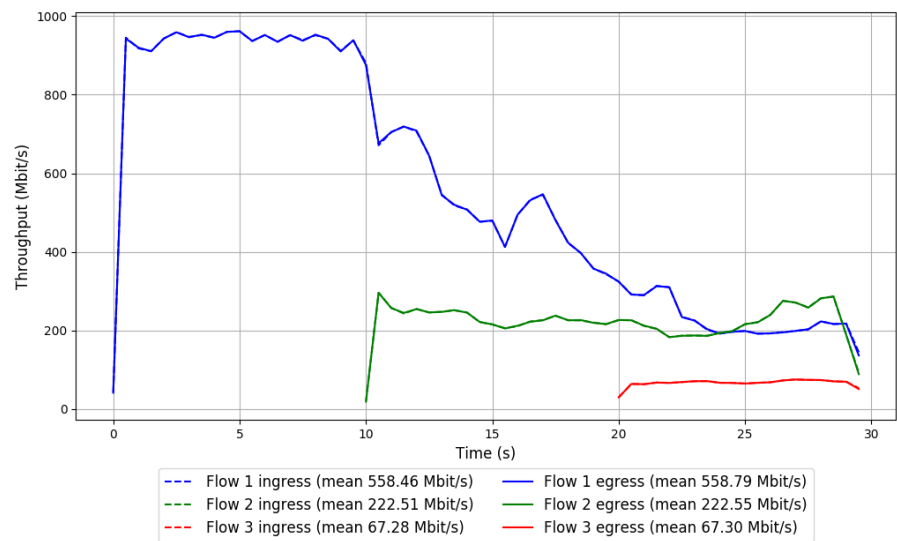


Run 3: Statistics of PCC

Start at: 2018-02-13 14:35:31  
End at: 2018-02-13 14:36:01  
Local clock offset: 0.242 ms  
Remote clock offset: -5.039 ms

# Below is generated by plot.py at 2018-02-14 00:21:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 728.43 Mbit/s  
95th percentile per-packet one-way delay: 2.363 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 558.79 Mbit/s  
95th percentile per-packet one-way delay: 2.363 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 222.55 Mbit/s  
95th percentile per-packet one-way delay: 2.397 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 67.30 Mbit/s  
95th percentile per-packet one-way delay: 1.759 ms  
Loss rate: 0.21%

Run 3: Report of PCC — Data Link

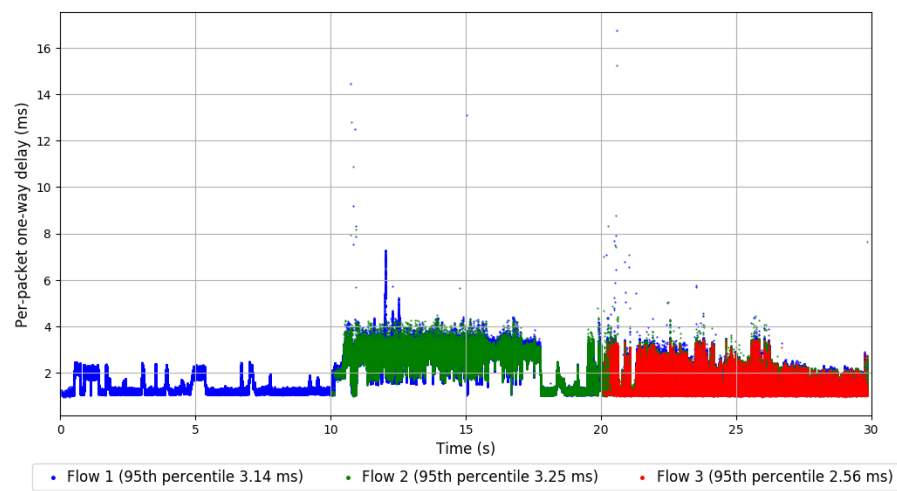
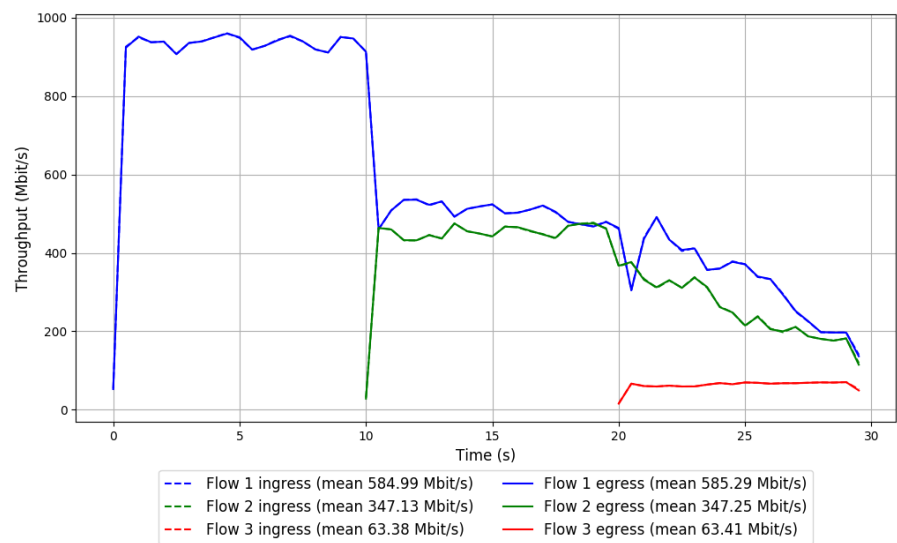


Run 4: Statistics of PCC

Start at: 2018-02-13 15:04:39  
End at: 2018-02-13 15:05:09  
Local clock offset: 0.46 ms  
Remote clock offset: -5.667 ms

# Below is generated by plot.py at 2018-02-14 00:22:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 836.75 Mbit/s  
95th percentile per-packet one-way delay: 3.186 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 585.29 Mbit/s  
95th percentile per-packet one-way delay: 3.138 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 347.25 Mbit/s  
95th percentile per-packet one-way delay: 3.251 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 63.41 Mbit/s  
95th percentile per-packet one-way delay: 2.555 ms  
Loss rate: 0.24%

Run 4: Report of PCC — Data Link

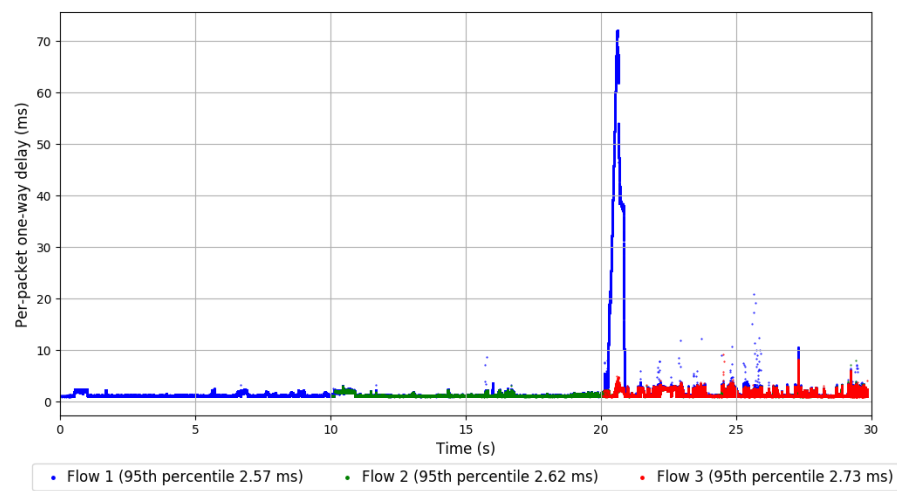
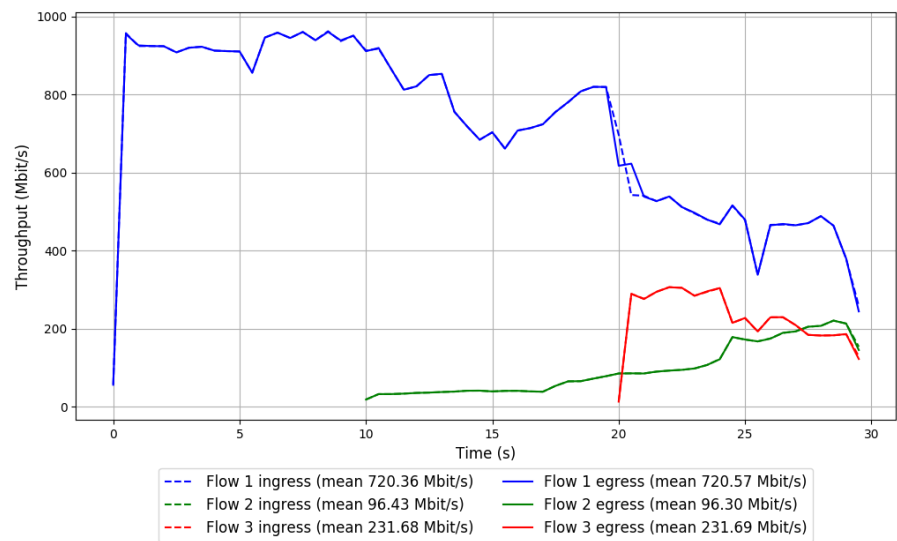


Run 5: Statistics of PCC

Start at: 2018-02-13 15:33:44  
End at: 2018-02-13 15:34:14  
Local clock offset: 0.266 ms  
Remote clock offset: -6.479 ms

# Below is generated by plot.py at 2018-02-14 00:23:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 860.43 Mbit/s  
95th percentile per-packet one-way delay: 2.615 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 720.57 Mbit/s  
95th percentile per-packet one-way delay: 2.569 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 2.618 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 231.69 Mbit/s  
95th percentile per-packet one-way delay: 2.735 ms  
Loss rate: 0.15%

Run 5: Report of PCC — Data Link

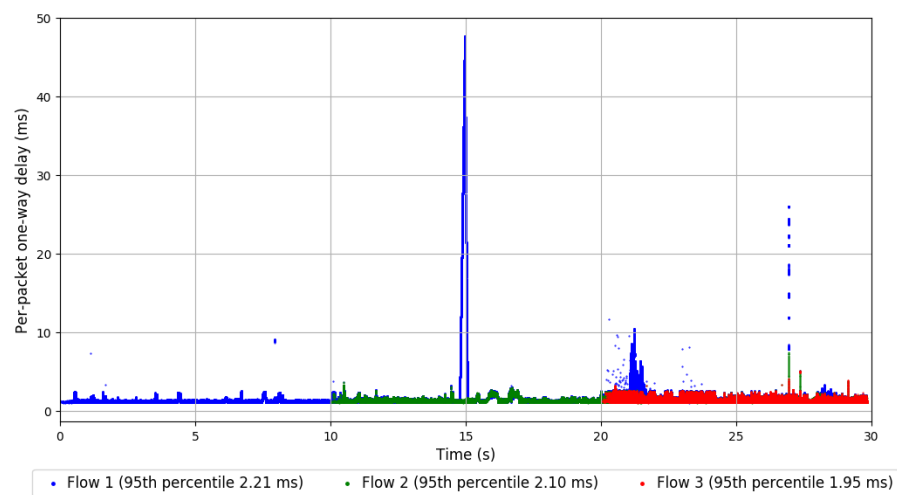
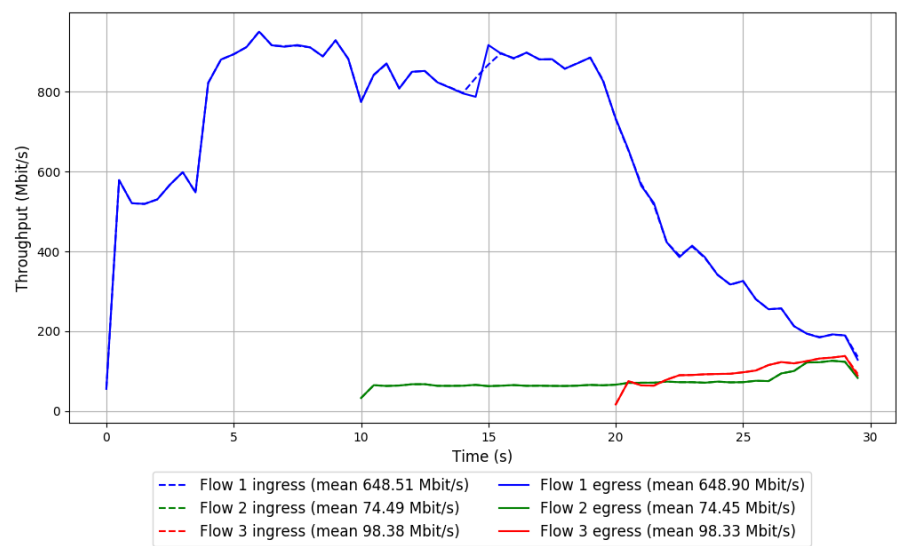


Run 6: Statistics of PCC

Start at: 2018-02-13 16:02:55  
End at: 2018-02-13 16:03:25  
Local clock offset: -0.173 ms  
Remote clock offset: -7.119 ms

# Below is generated by plot.py at 2018-02-14 00:23:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 730.53 Mbit/s  
95th percentile per-packet one-way delay: 2.202 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 648.90 Mbit/s  
95th percentile per-packet one-way delay: 2.214 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 74.45 Mbit/s  
95th percentile per-packet one-way delay: 2.096 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 98.33 Mbit/s  
95th percentile per-packet one-way delay: 1.947 ms  
Loss rate: 0.26%

Run 6: Report of PCC — Data Link

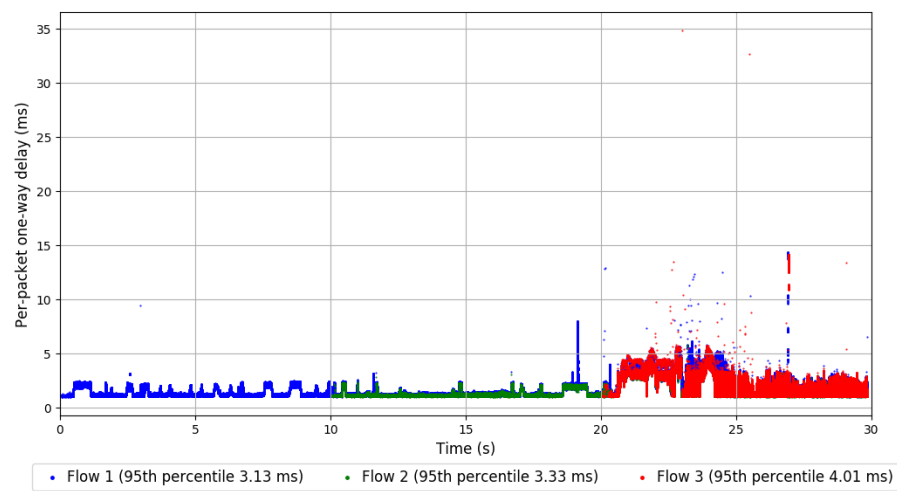
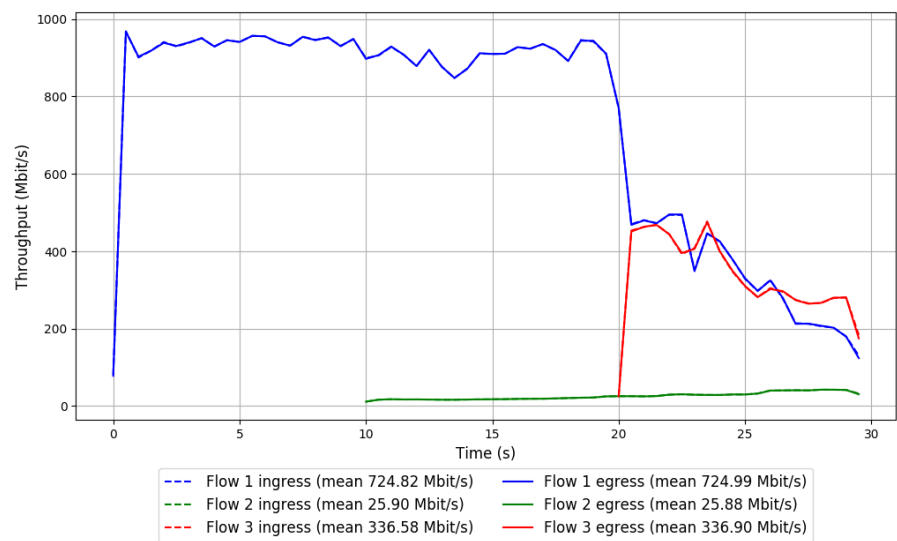


Run 7: Statistics of PCC

Start at: 2018-02-13 16:31:56  
End at: 2018-02-13 16:32:26  
Local clock offset: -0.44 ms  
Remote clock offset: -7.047 ms

# Below is generated by plot.py at 2018-02-14 00:27:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 852.90 Mbit/s  
95th percentile per-packet one-way delay: 3.345 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 724.99 Mbit/s  
95th percentile per-packet one-way delay: 3.134 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 25.88 Mbit/s  
95th percentile per-packet one-way delay: 3.327 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 336.90 Mbit/s  
95th percentile per-packet one-way delay: 4.012 ms  
Loss rate: 0.17%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-13 17:00:51

End at: 2018-02-13 17:01:21

Local clock offset: 2.083 ms

Remote clock offset: -4.51 ms

# Below is generated by plot.py at 2018-02-14 00:27:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 709.98 Mbit/s

95th percentile per-packet one-way delay: 2.226 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 624.08 Mbit/s

95th percentile per-packet one-way delay: 2.237 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 89.50 Mbit/s

95th percentile per-packet one-way delay: 2.037 ms

Loss rate: 0.13%

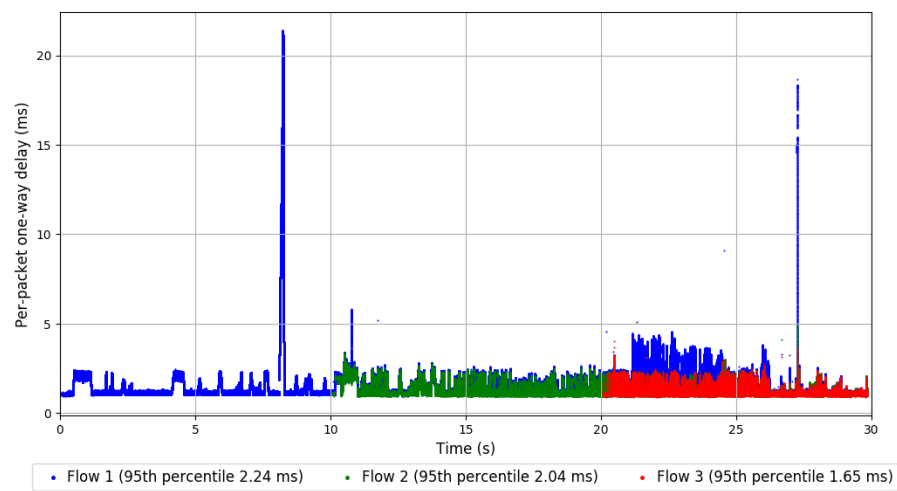
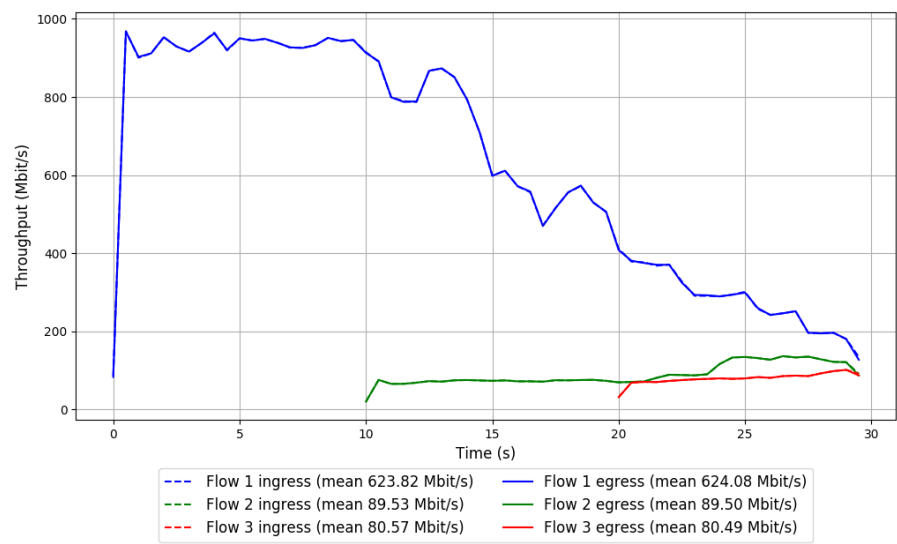
-- Flow 3:

Average throughput: 80.49 Mbit/s

95th percentile per-packet one-way delay: 1.651 ms

Loss rate: 0.30%

Run 8: Report of PCC — Data Link

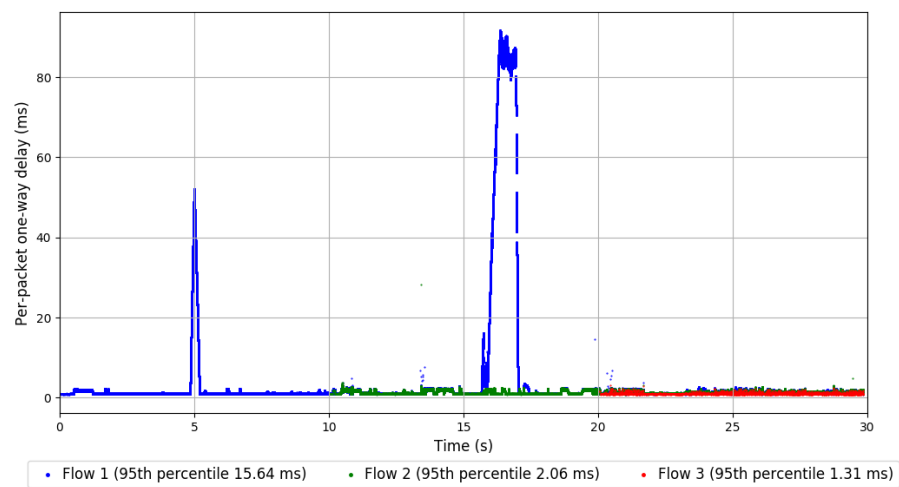
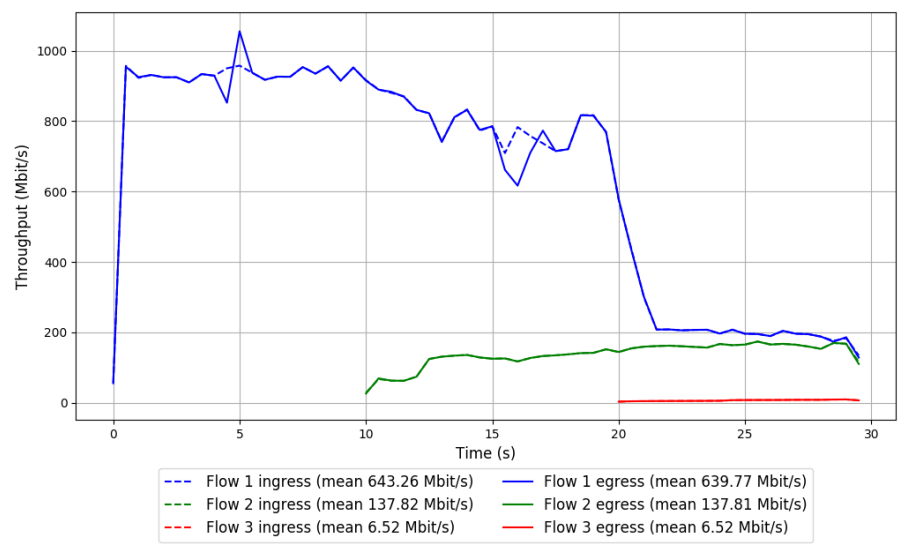


Run 9: Statistics of PCC

Start at: 2018-02-13 17:29:52  
End at: 2018-02-13 17:30:22  
Local clock offset: 3.384 ms  
Remote clock offset: -4.835 ms

# Below is generated by plot.py at 2018-02-14 00:29:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 733.40 Mbit/s  
95th percentile per-packet one-way delay: 6.758 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 639.77 Mbit/s  
95th percentile per-packet one-way delay: 15.644 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 137.81 Mbit/s  
95th percentile per-packet one-way delay: 2.065 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 6.52 Mbit/s  
95th percentile per-packet one-way delay: 1.310 ms  
Loss rate: 0.25%

Run 9: Report of PCC — Data Link

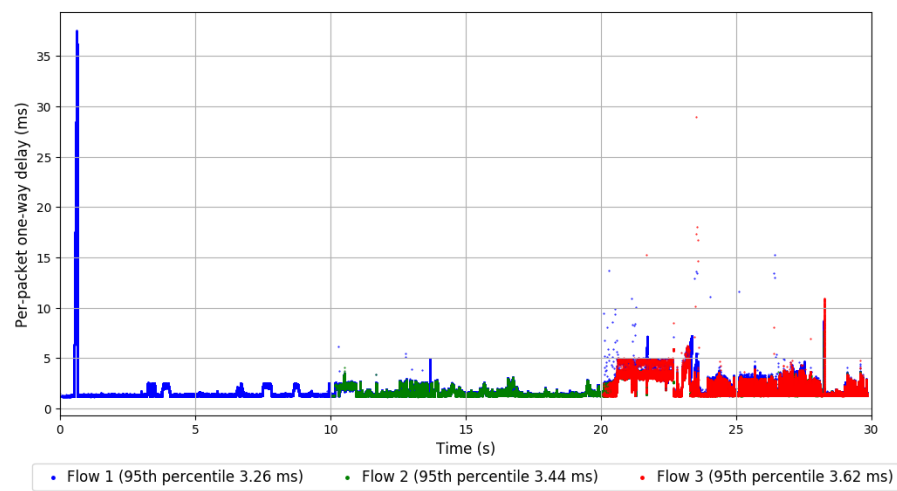
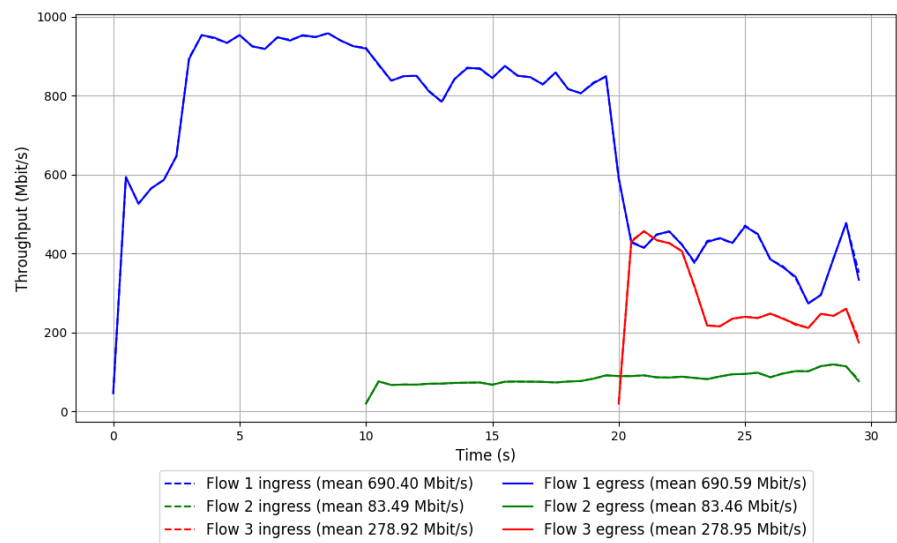


Run 10: Statistics of PCC

Start at: 2018-02-13 17:59:04  
End at: 2018-02-13 17:59:34  
Local clock offset: 1.889 ms  
Remote clock offset: -5.246 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 837.66 Mbit/s  
95th percentile per-packet one-way delay: 3.428 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 690.59 Mbit/s  
95th percentile per-packet one-way delay: 3.256 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 83.46 Mbit/s  
95th percentile per-packet one-way delay: 3.440 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 278.95 Mbit/s  
95th percentile per-packet one-way delay: 3.622 ms  
Loss rate: 0.18%

Run 10: Report of PCC — Data Link

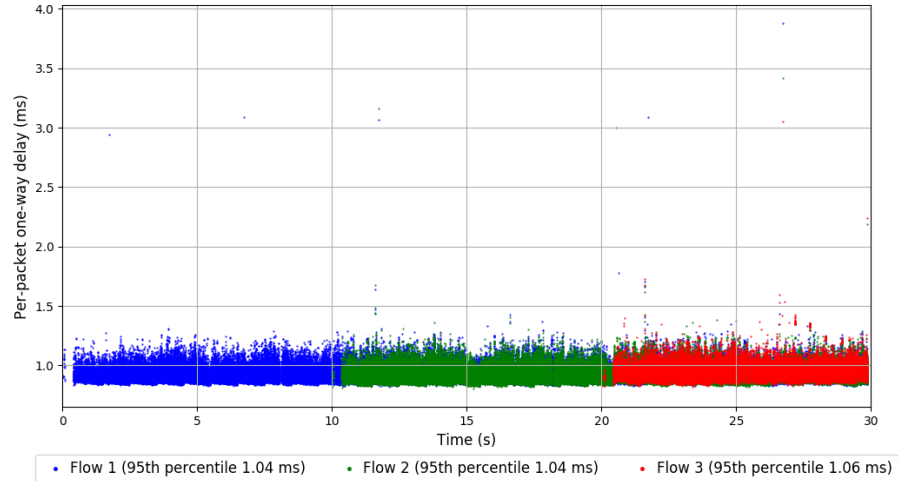
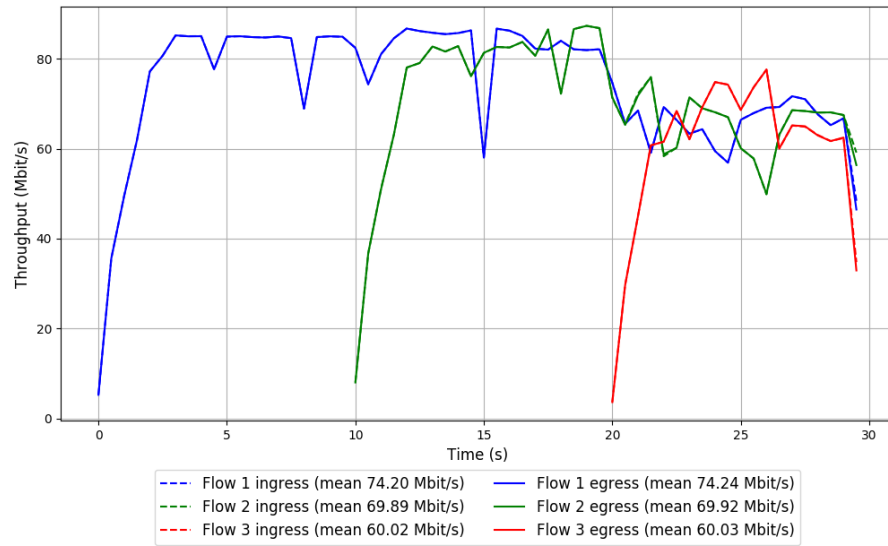


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 13:31:01  
End at: 2018-02-13 13:31:31  
Local clock offset: -0.112 ms  
Remote clock offset: -6.738 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 140.47 Mbit/s  
95th percentile per-packet one-way delay: 1.045 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 74.24 Mbit/s  
95th percentile per-packet one-way delay: 1.042 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 69.92 Mbit/s  
95th percentile per-packet one-way delay: 1.042 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 60.03 Mbit/s  
95th percentile per-packet one-way delay: 1.057 ms  
Loss rate: 0.16%

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

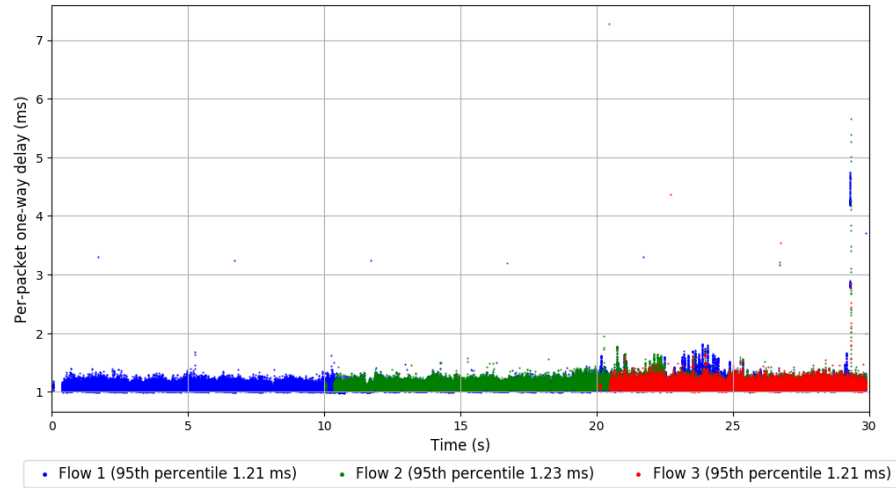
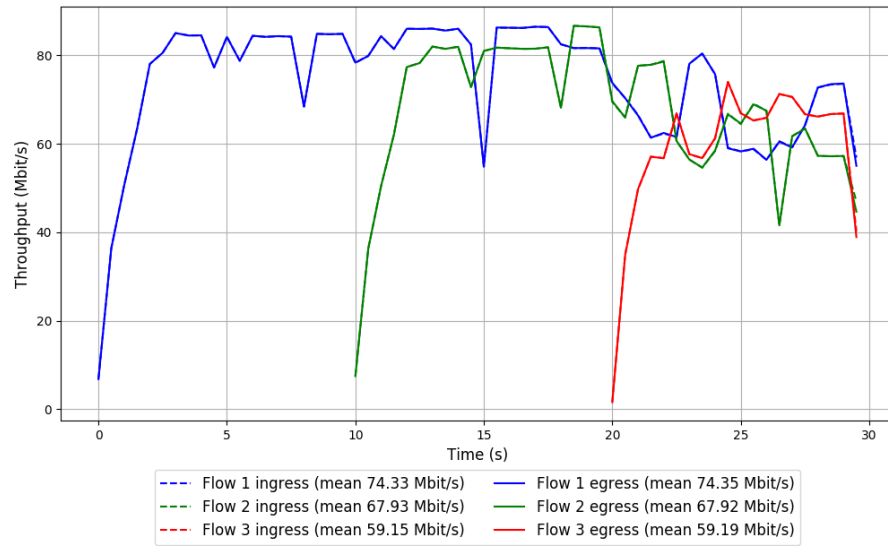


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 14:00:01  
End at: 2018-02-13 14:00:31  
Local clock offset: 0.068 ms  
Remote clock offset: -5.903 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 138.96 Mbit/s  
95th percentile per-packet one-way delay: 1.215 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 74.35 Mbit/s  
95th percentile per-packet one-way delay: 1.208 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 67.92 Mbit/s  
95th percentile per-packet one-way delay: 1.227 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 59.19 Mbit/s  
95th percentile per-packet one-way delay: 1.211 ms  
Loss rate: 0.12%

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

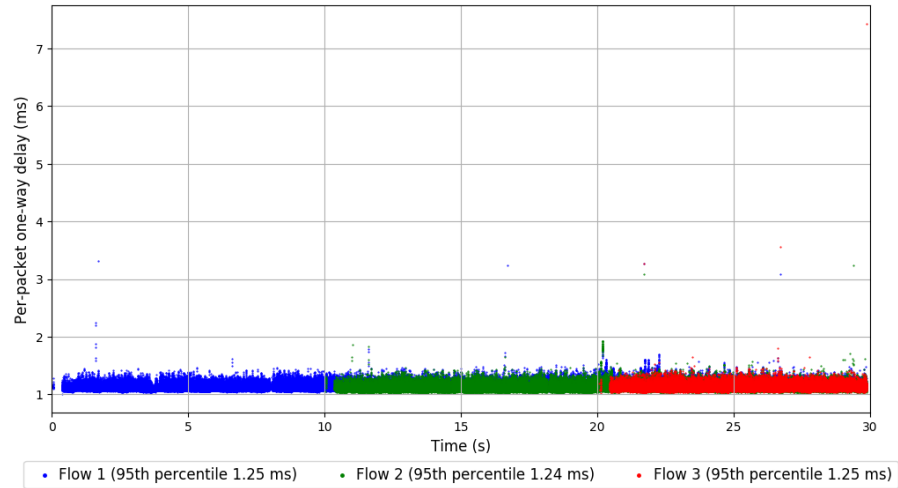
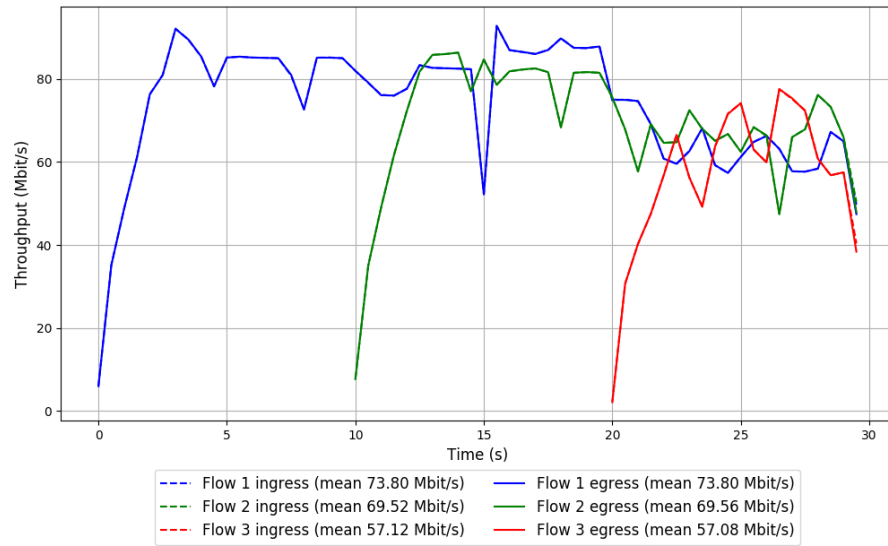


Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 14:29:00  
End at: 2018-02-13 14:29:30  
Local clock offset: 0.288 ms  
Remote clock offset: -5.259 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 138.77 Mbit/s  
95th percentile per-packet one-way delay: 1.247 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 73.80 Mbit/s  
95th percentile per-packet one-way delay: 1.254 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 69.56 Mbit/s  
95th percentile per-packet one-way delay: 1.236 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 57.08 Mbit/s  
95th percentile per-packet one-way delay: 1.245 ms  
Loss rate: 0.19%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 14:58:12

End at: 2018-02-13 14:58:42

Local clock offset: 0.4 ms

Remote clock offset: -5.36 ms

# Below is generated by plot.py at 2018-02-14 00:31:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 137.72 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 71.52 Mbit/s

95th percentile per-packet one-way delay: 1.039 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.06%

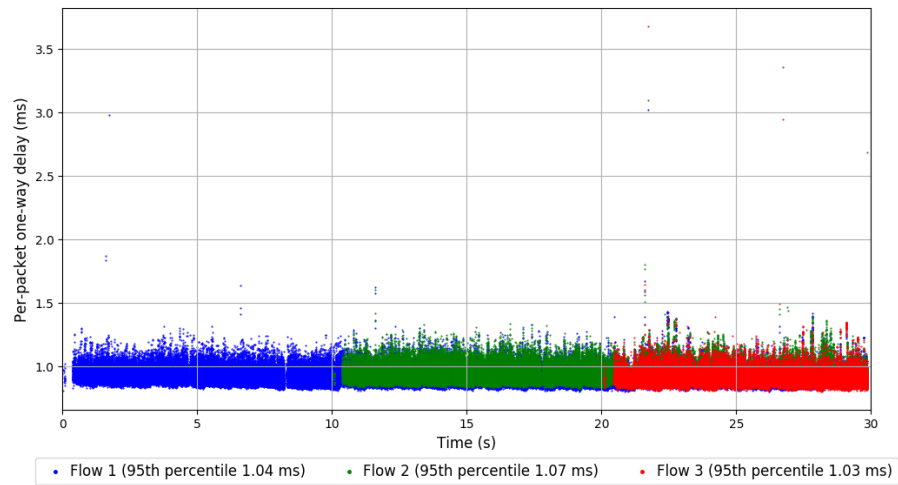
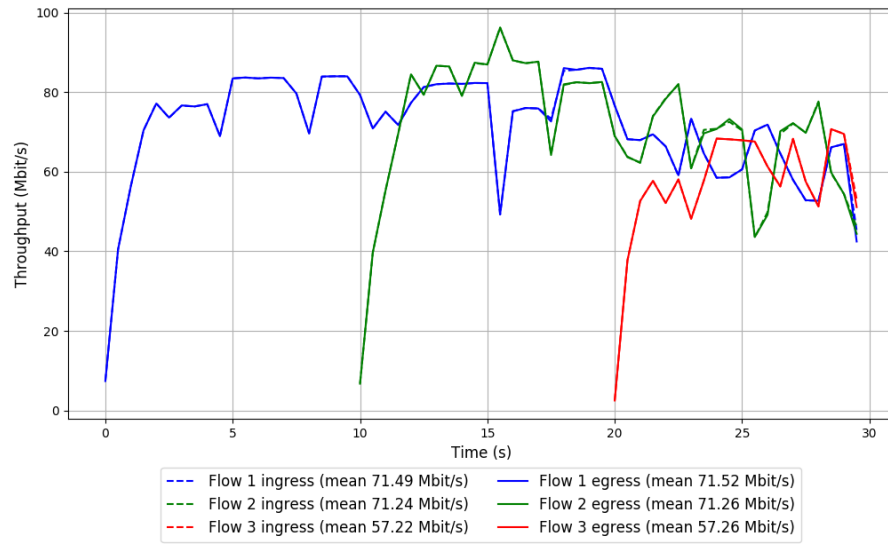
-- Flow 3:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.19%

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

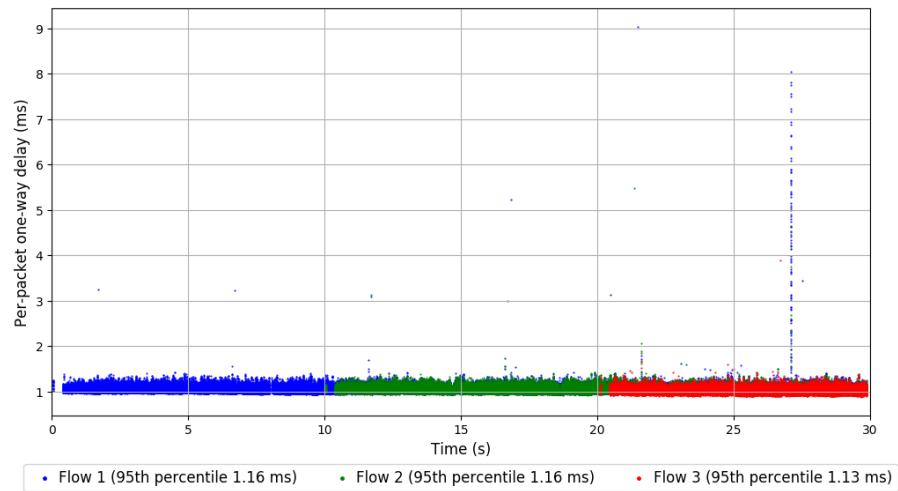
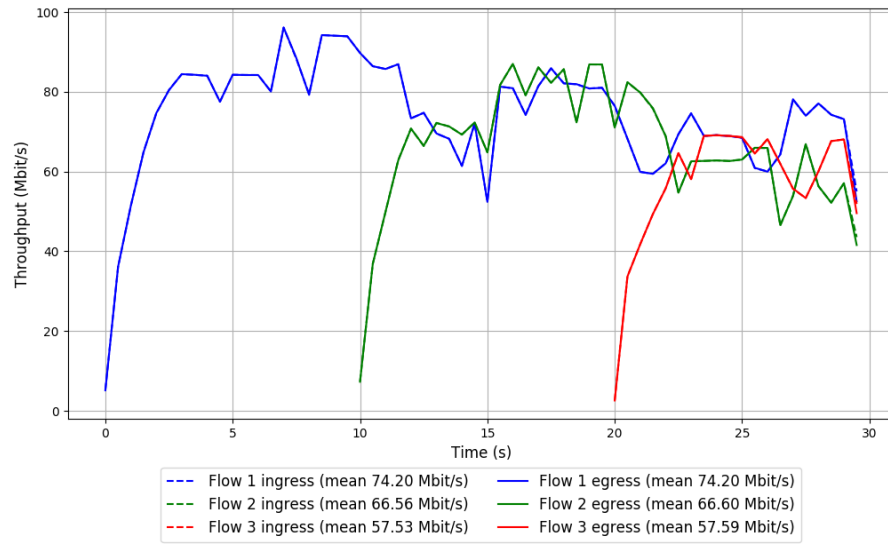


Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 15:27:13  
End at: 2018-02-13 15:27:43  
Local clock offset: 0.25 ms  
Remote clock offset: -6.028 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 137.42 Mbit/s  
95th percentile per-packet one-way delay: 1.155 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 74.20 Mbit/s  
95th percentile per-packet one-way delay: 1.160 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 66.60 Mbit/s  
95th percentile per-packet one-way delay: 1.155 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 57.59 Mbit/s  
95th percentile per-packet one-way delay: 1.127 ms  
Loss rate: 0.22%

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

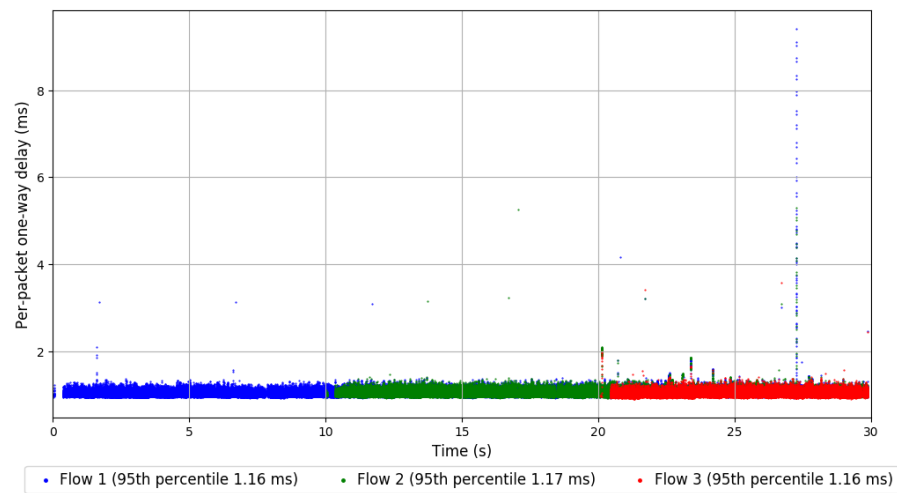
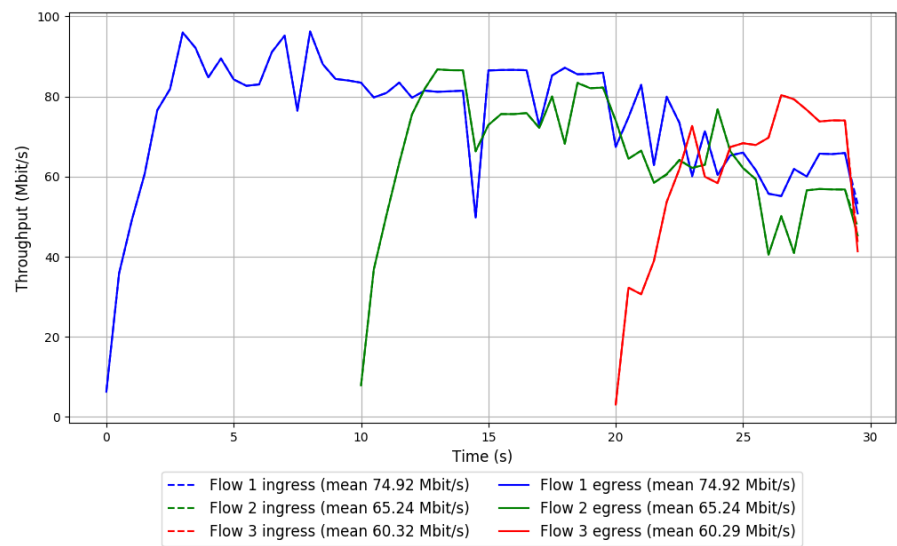


Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 15:56:23  
End at: 2018-02-13 15:56:53  
Local clock offset: -0.129 ms  
Remote clock offset: -7.078 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 138.13 Mbit/s  
95th percentile per-packet one-way delay: 1.165 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 74.92 Mbit/s  
95th percentile per-packet one-way delay: 1.164 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 65.24 Mbit/s  
95th percentile per-packet one-way delay: 1.170 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 60.29 Mbit/s  
95th percentile per-packet one-way delay: 1.159 ms  
Loss rate: 0.21%

Run 6: Report of QUIC Cubic — Data Link

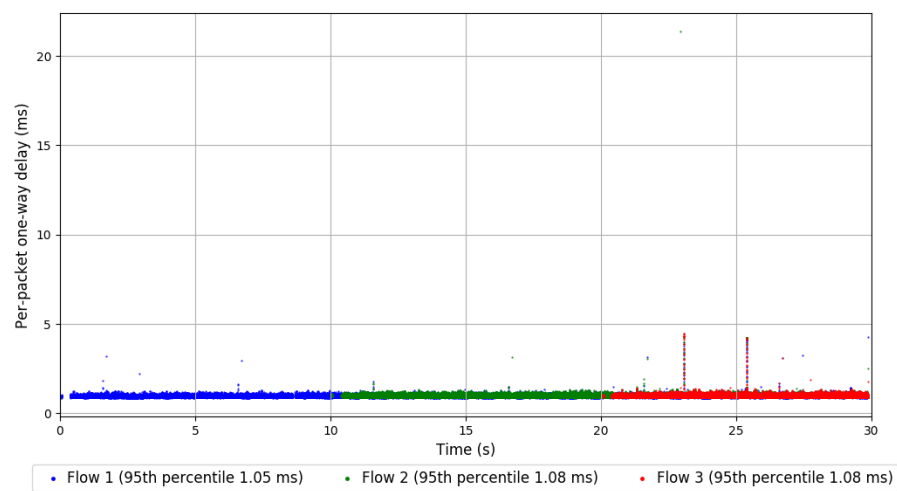
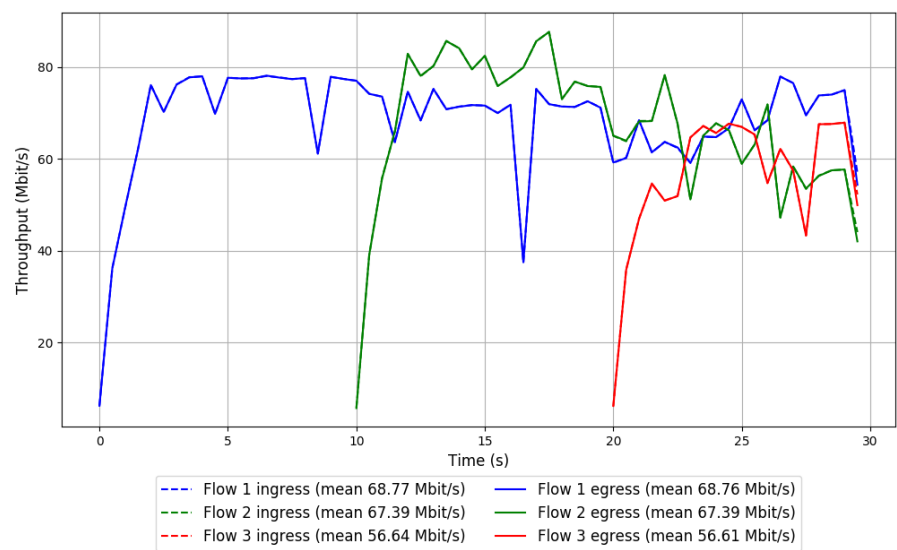


Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 16:25:36  
End at: 2018-02-13 16:26:06  
Local clock offset: -0.47 ms  
Remote clock offset: -6.957 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 132.22 Mbit/s  
95th percentile per-packet one-way delay: 1.067 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 68.76 Mbit/s  
95th percentile per-packet one-way delay: 1.051 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 67.39 Mbit/s  
95th percentile per-packet one-way delay: 1.078 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 56.61 Mbit/s  
95th percentile per-packet one-way delay: 1.080 ms  
Loss rate: 0.22%

Run 7: Report of QUIC Cubic — Data Link

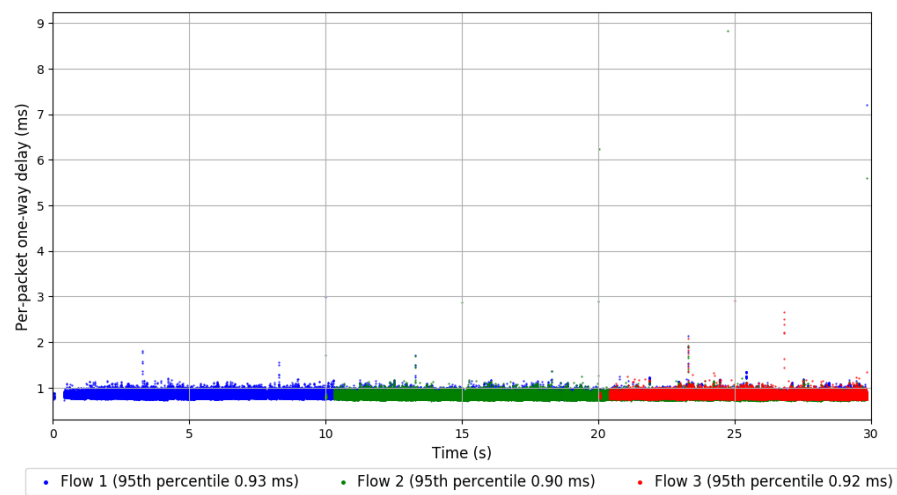
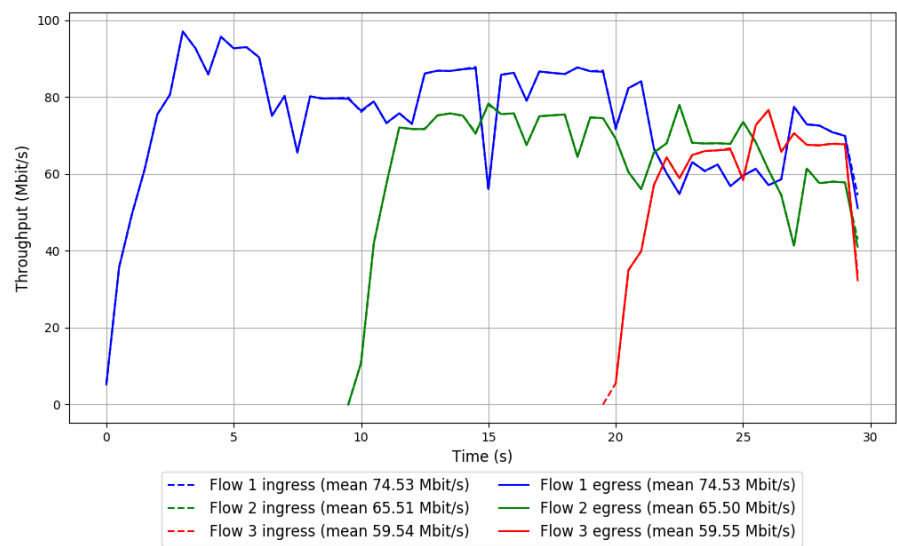


Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 16:54:32  
End at: 2018-02-13 16:55:02  
Local clock offset: 1.386 ms  
Remote clock offset: -4.749 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 137.76 Mbit/s  
95th percentile per-packet one-way delay: 0.922 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 74.53 Mbit/s  
95th percentile per-packet one-way delay: 0.931 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 65.50 Mbit/s  
95th percentile per-packet one-way delay: 0.902 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 59.55 Mbit/s  
95th percentile per-packet one-way delay: 0.920 ms  
Loss rate: 0.16%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-13 17:23:26

End at: 2018-02-13 17:23:56

Local clock offset: 3.234 ms

Remote clock offset: -4.97 ms

# Below is generated by plot.py at 2018-02-14 00:31:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 142.11 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 69.61 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.09%

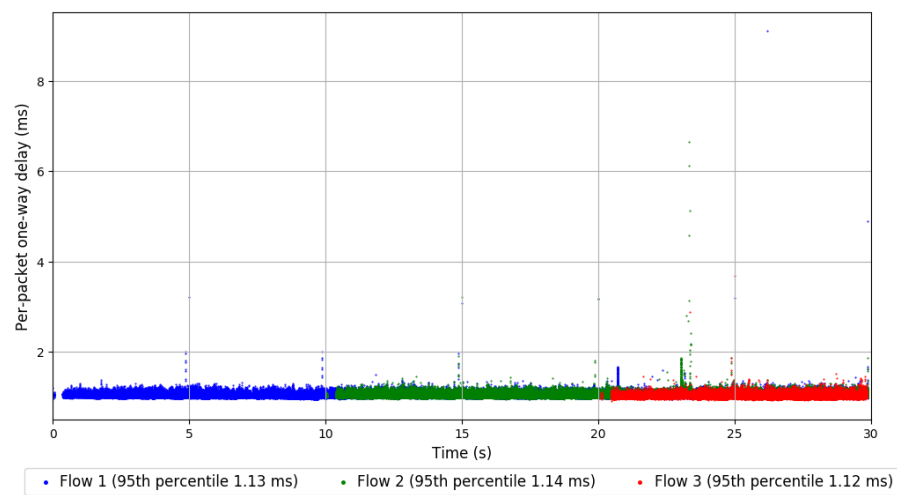
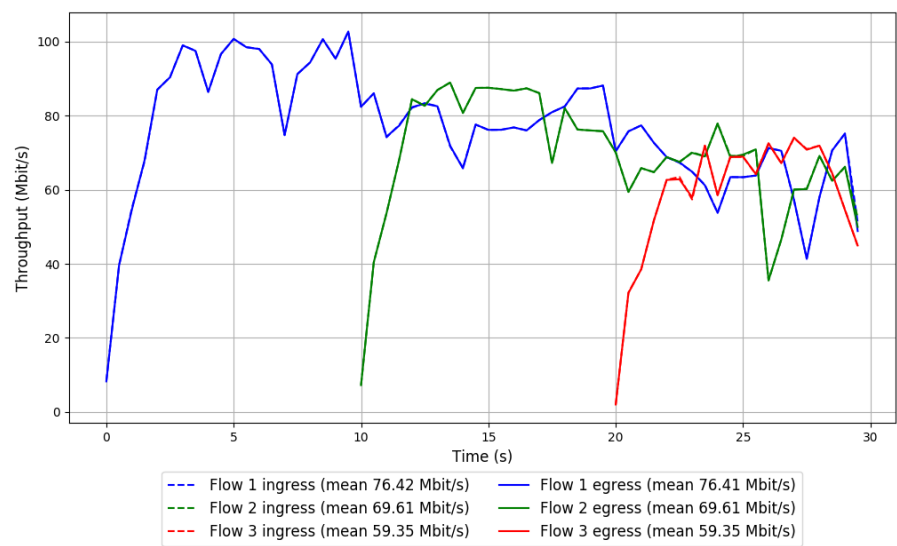
-- Flow 3:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

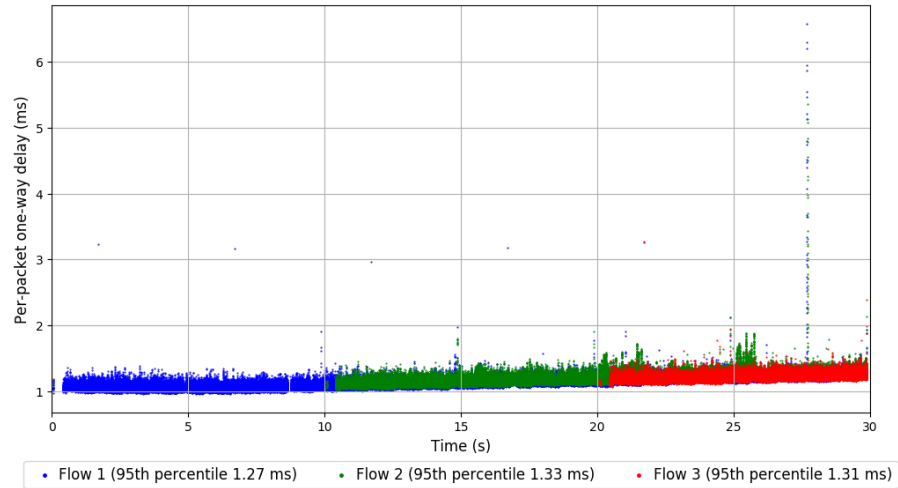
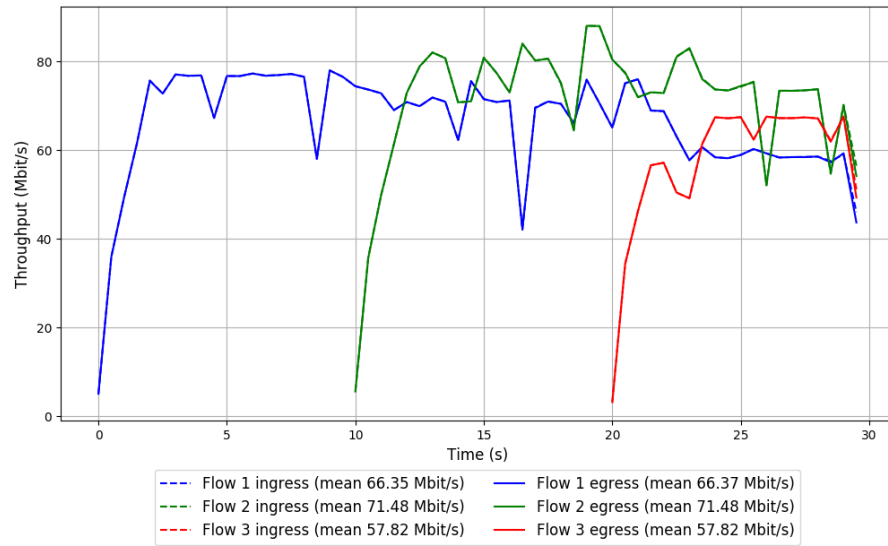


Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 17:52:29  
End at: 2018-02-13 17:52:59  
Local clock offset: 4.282 ms  
Remote clock offset: -5.149 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 132.95 Mbit/s  
95th percentile per-packet one-way delay: 1.304 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 66.37 Mbit/s  
95th percentile per-packet one-way delay: 1.267 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 71.48 Mbit/s  
95th percentile per-packet one-way delay: 1.332 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 57.82 Mbit/s  
95th percentile per-packet one-way delay: 1.312 ms  
Loss rate: 0.18%

# Run 10: Report of QUIC Cubic — Data Link

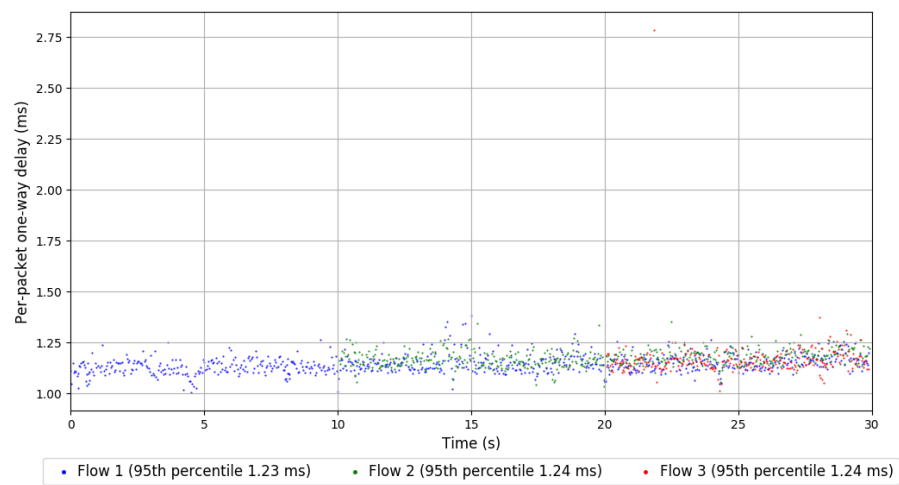
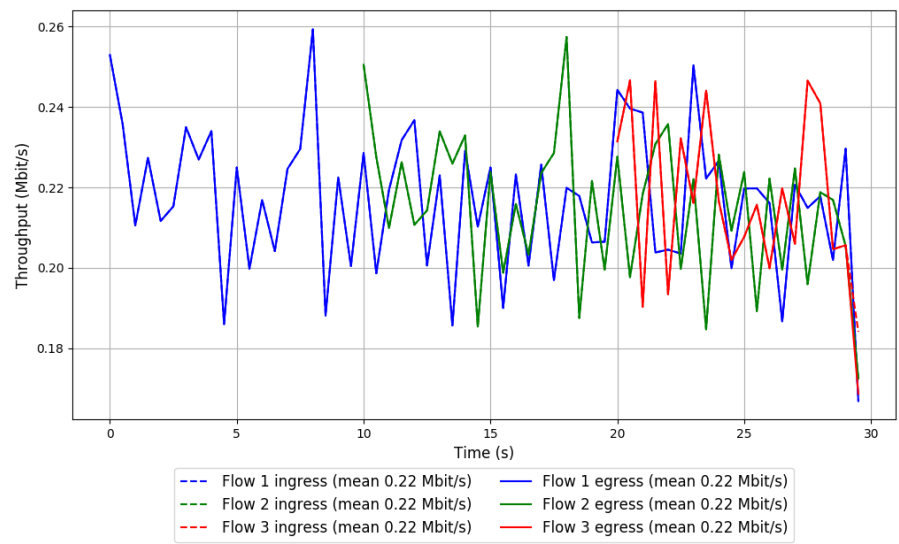


Run 1: Statistics of SReAM

Start at: 2018-02-13 13:46:57  
End at: 2018-02-13 13:47:27  
Local clock offset: -0.005 ms  
Remote clock offset: -6.442 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.238 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.232 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.242 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.237 ms  
Loss rate: 0.35%

Run 1: Report of SReAM — Data Link

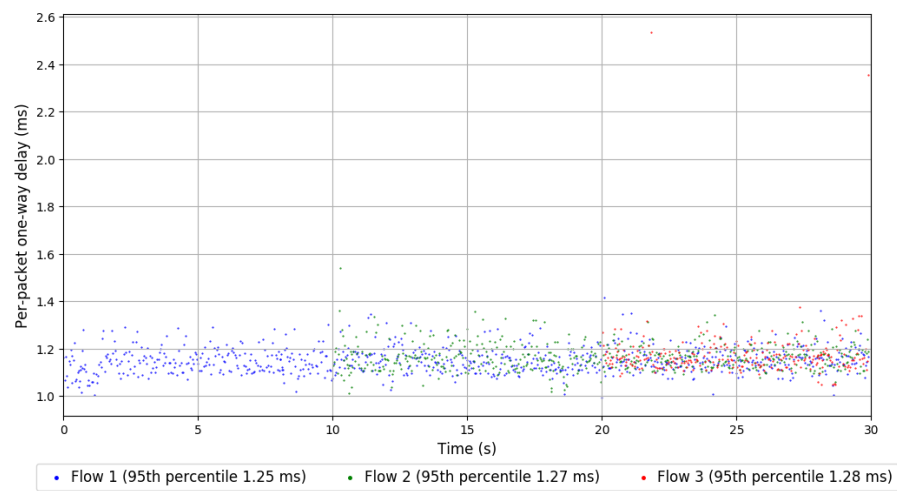
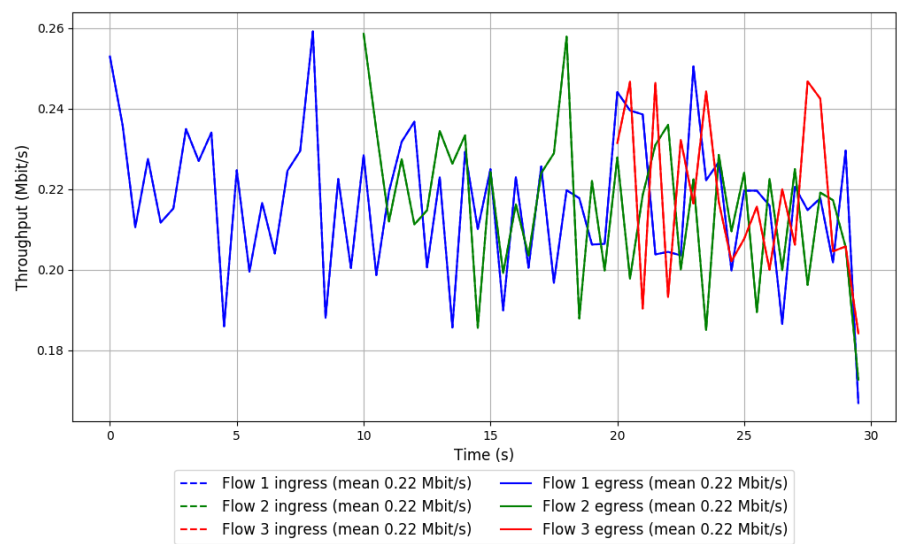


Run 2: Statistics of SReAM

Start at: 2018-02-13 14:16:02  
End at: 2018-02-13 14:16:32  
Local clock offset: 0.192 ms  
Remote clock offset: -5.513 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.266 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.249 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.271 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.284 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

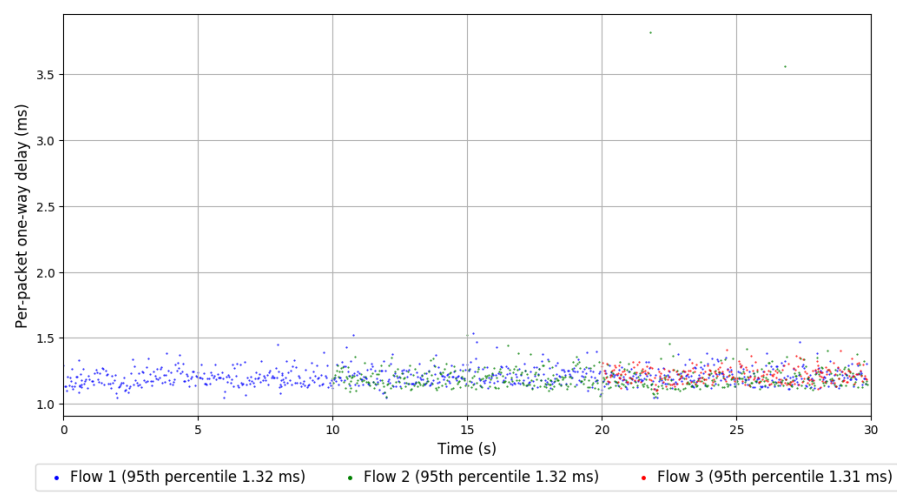
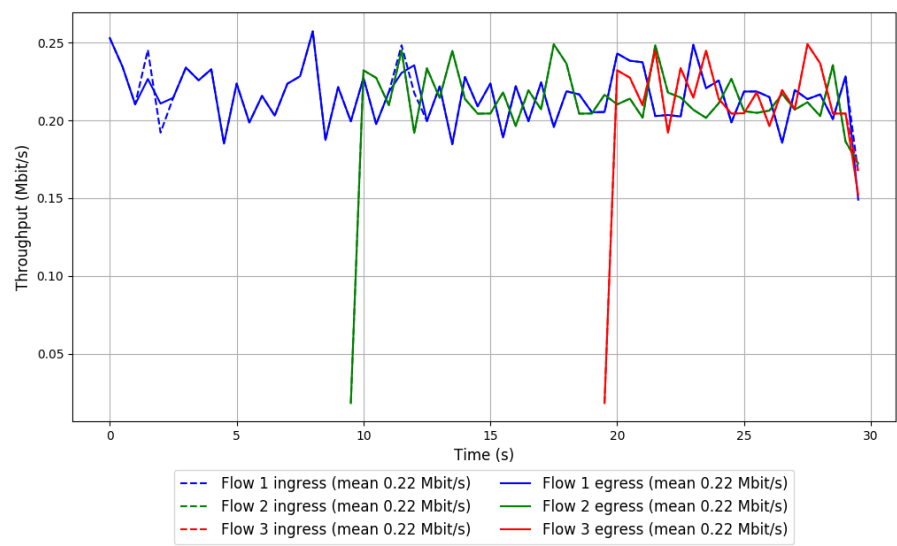


Run 3: Statistics of SCReAM

Start at: 2018-02-13 14:45:09  
End at: 2018-02-13 14:45:39  
Local clock offset: 0.421 ms  
Remote clock offset: -4.918 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.321 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.321 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.323 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.312 ms  
Loss rate: 0.35%

Run 3: Report of SReAM — Data Link

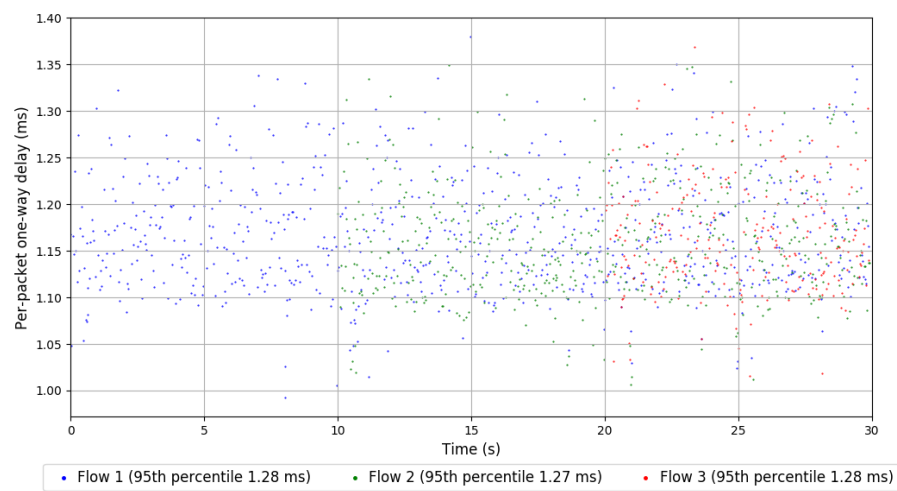
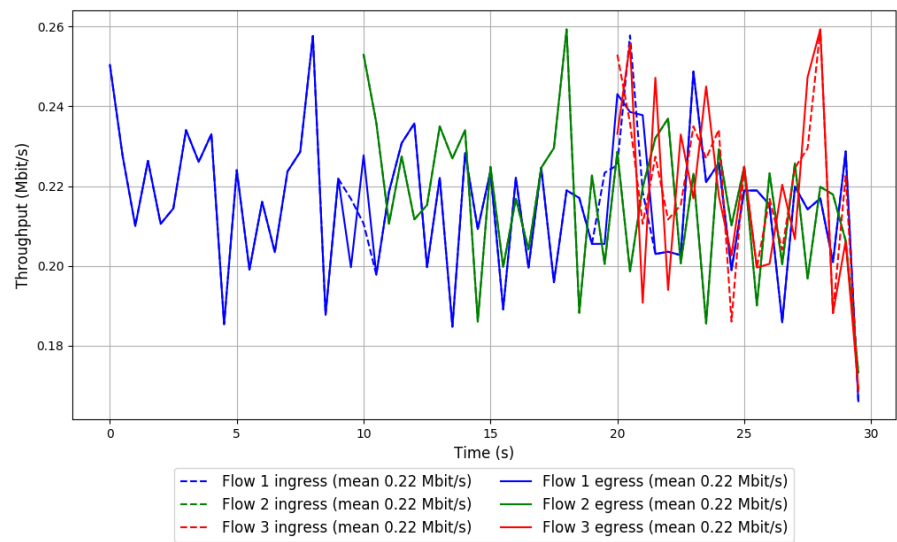


Run 4: Statistics of SReAM

Start at: 2018-02-13 15:14:20  
End at: 2018-02-13 15:14:50  
Local clock offset: 0.356 ms  
Remote clock offset: -5.798 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.276 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.282 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.269 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.279 ms  
Loss rate: 0.35%

Run 4: Report of SReAM — Data Link

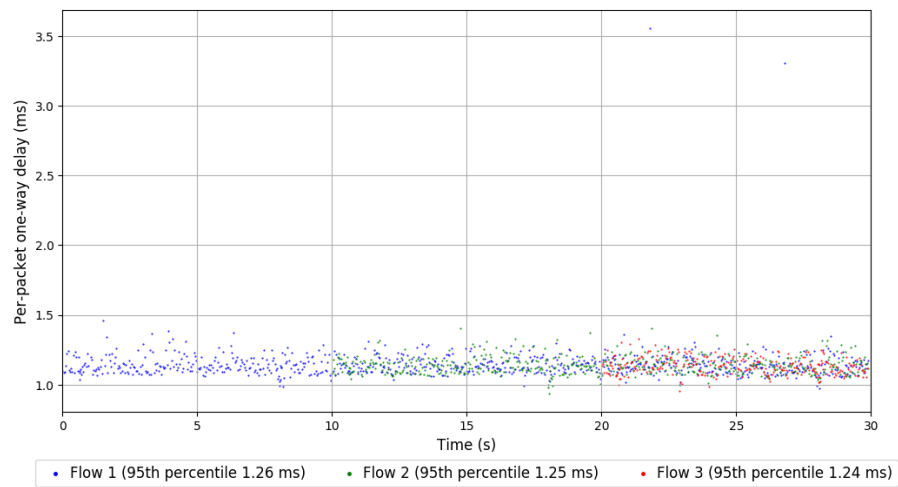
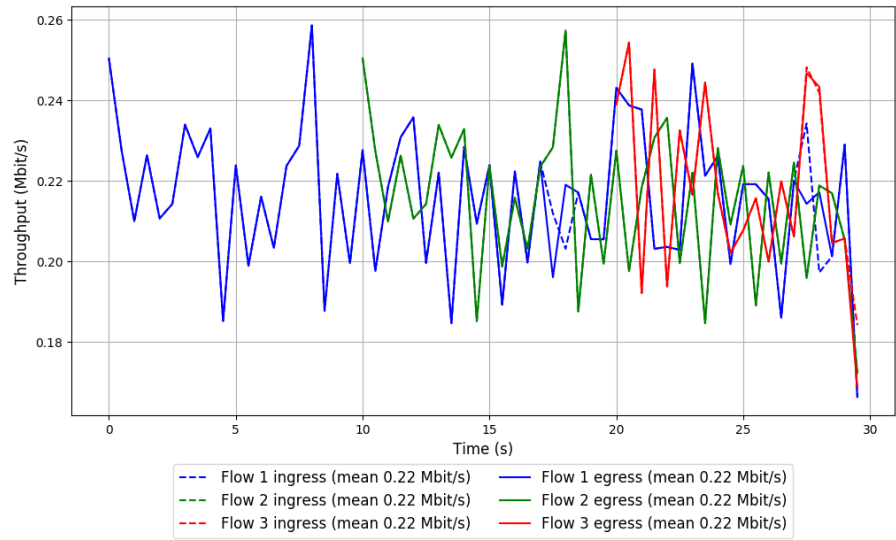


Run 5: Statistics of SReAM

Start at: 2018-02-13 15:43:22  
End at: 2018-02-13 15:43:52  
Local clock offset: 0.037 ms  
Remote clock offset: -6.851 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.252 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.258 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.255 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.239 ms  
Loss rate: 0.35%

## Run 5: Report of SReAM — Data Link

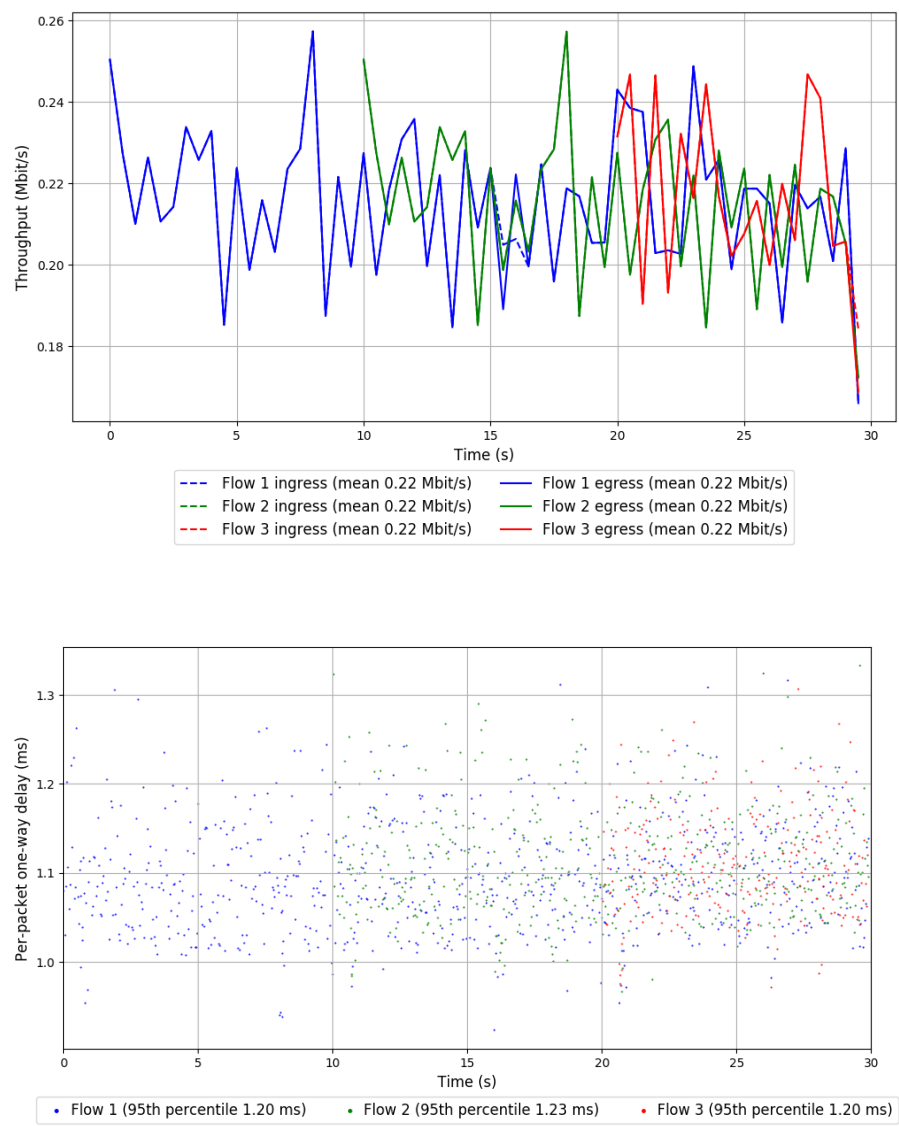


Run 6: Statistics of SReAM

Start at: 2018-02-13 16:12:28  
End at: 2018-02-13 16:12:58  
Local clock offset: -0.299 ms  
Remote clock offset: -6.896 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.215 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.201 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.230 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.203 ms  
Loss rate: 0.35%

Run 6: Report of SReAM — Data Link

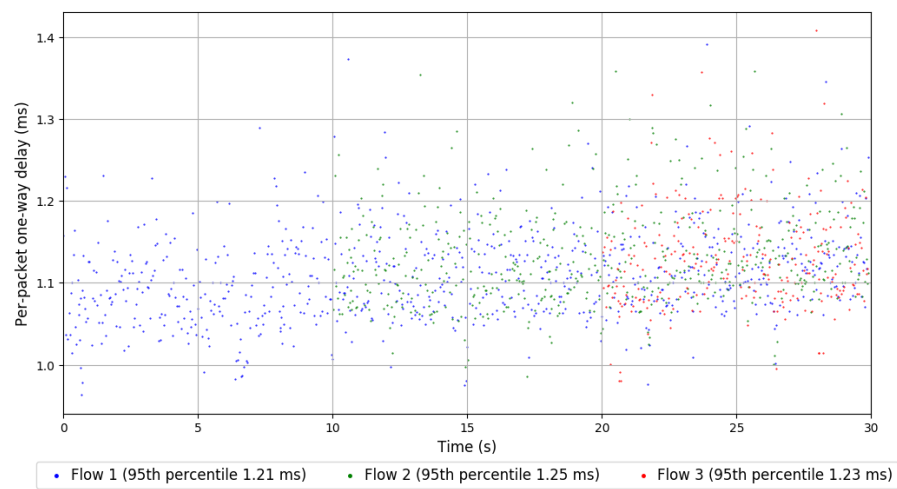
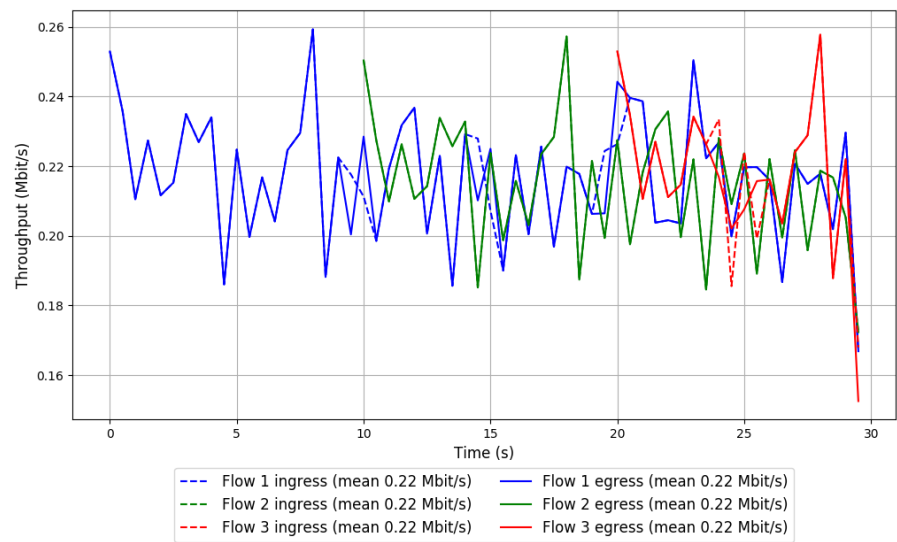


Run 7: Statistics of SReAM

Start at: 2018-02-13 16:41:32  
End at: 2018-02-13 16:42:02  
Local clock offset: -0.518 ms  
Remote clock offset: -5.789 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.228 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.206 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.249 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.225 ms  
Loss rate: 0.35%

Run 7: Report of SReAM — Data Link

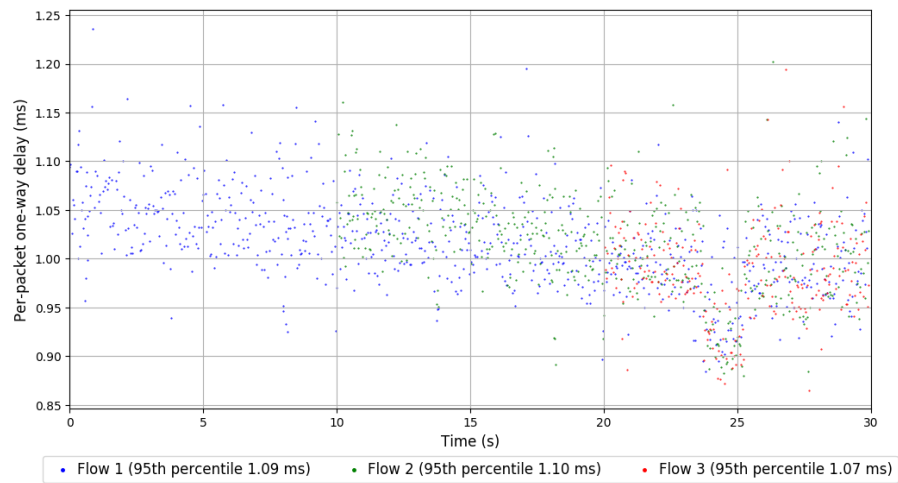
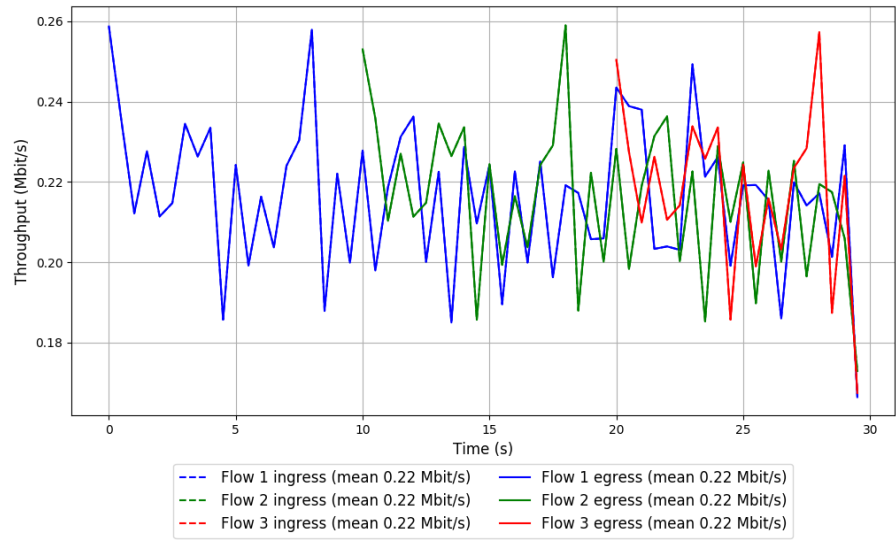


Run 8: Statistics of SReAM

Start at: 2018-02-13 17:10:24  
End at: 2018-02-13 17:10:54  
Local clock offset: 2.677 ms  
Remote clock offset: -4.337 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.094 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.094 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.104 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.073 ms  
Loss rate: 0.00%

## Run 8: Report of SReAM — Data Link

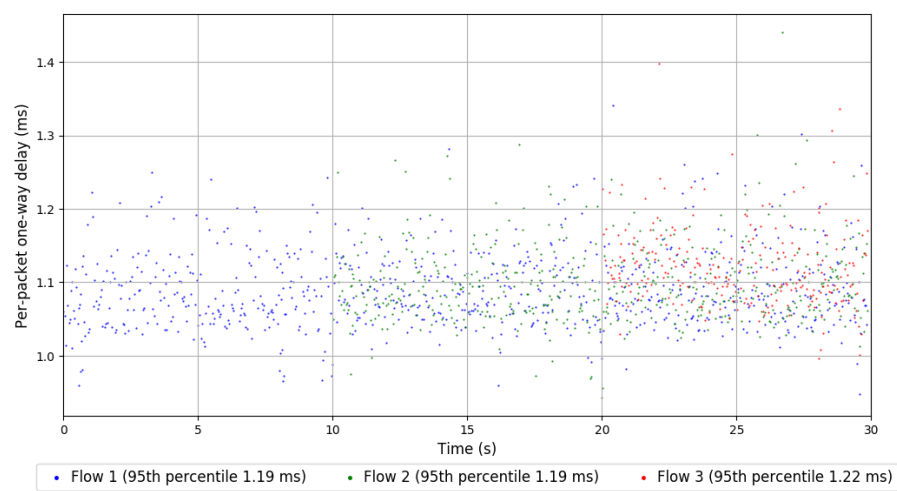
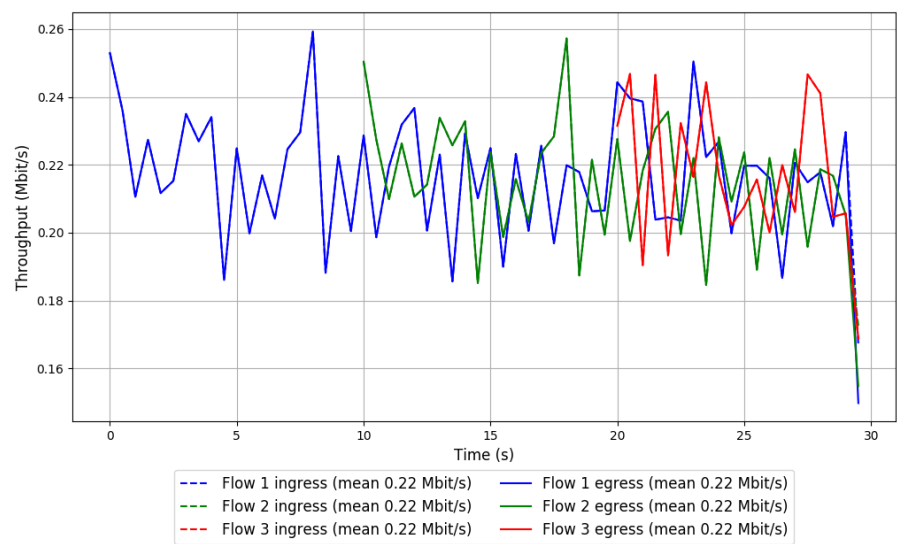


Run 9: Statistics of SCReAM

Start at: 2018-02-13 17:39:28  
End at: 2018-02-13 17:39:58  
Local clock offset: 3.825 ms  
Remote clock offset: -4.666 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.195 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.187 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.193 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.224 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

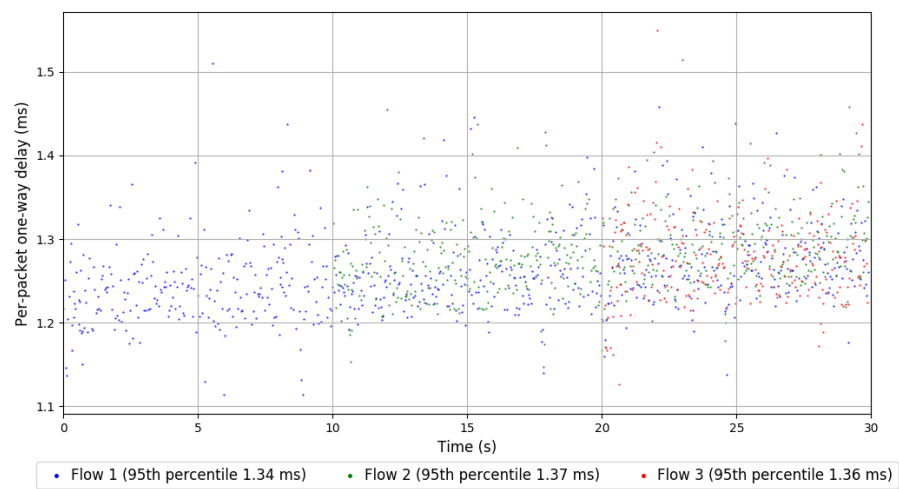
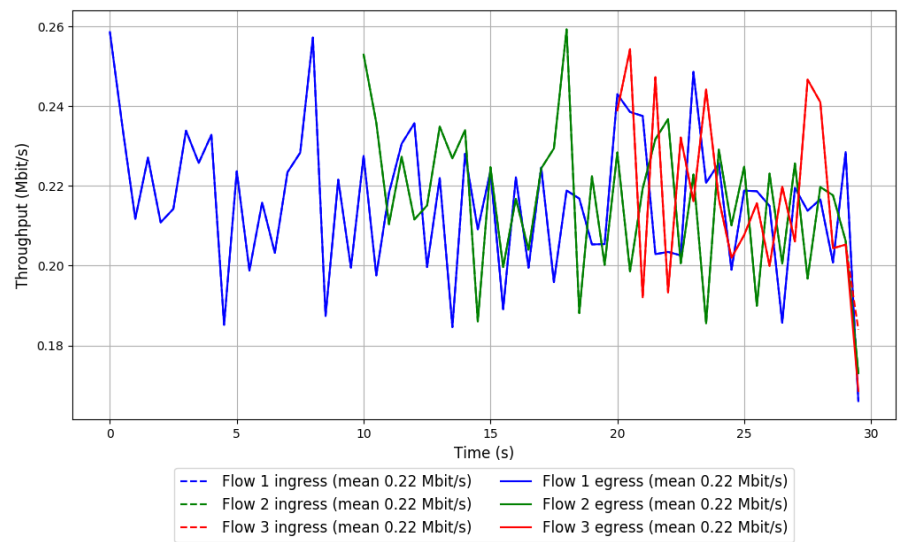


Run 10: Statistics of SReAM

Start at: 2018-02-13 18:08:38  
End at: 2018-02-13 18:09:08  
Local clock offset: 0.087 ms  
Remote clock offset: -5.258 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.360 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.344 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.368 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.360 ms  
Loss rate: 0.35%

Run 10: Report of SReAM — Data Link

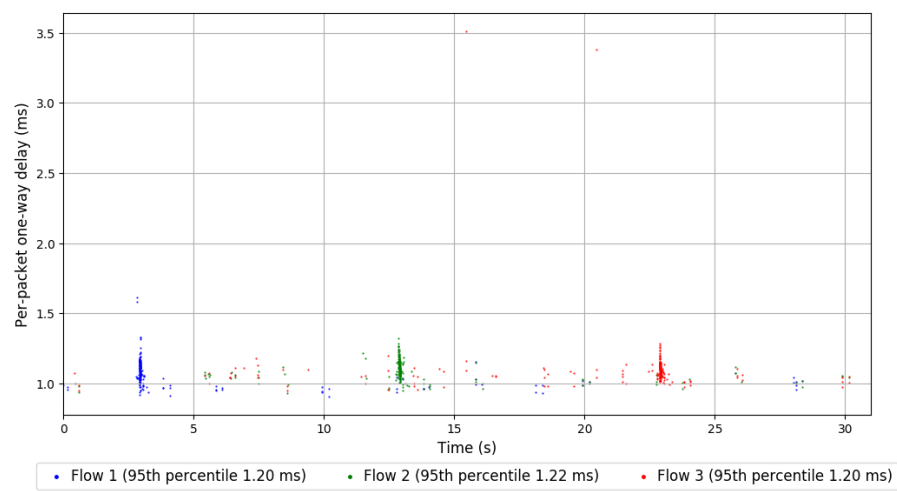
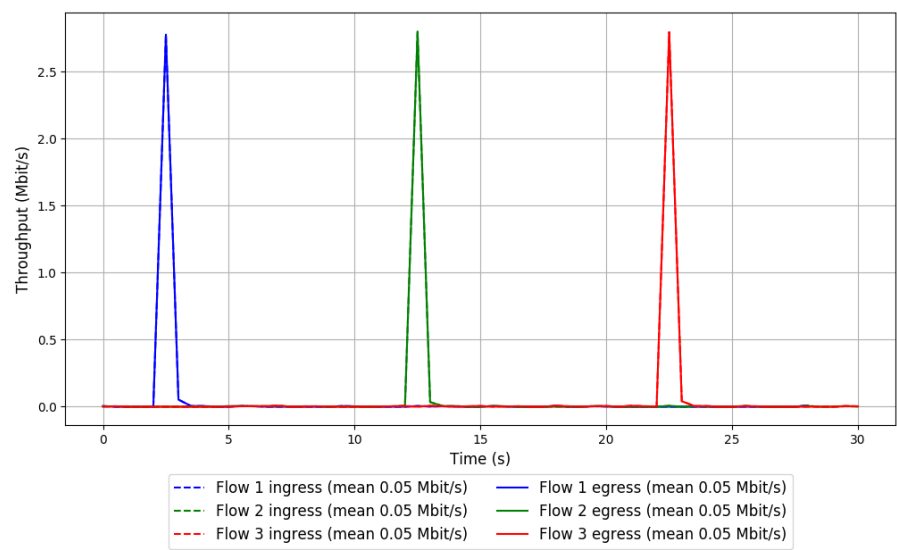


Run 1: Statistics of WebRTC media

Start at: 2018-02-13 13:48:15  
End at: 2018-02-13 13:48:45  
Local clock offset: -0.012 ms  
Remote clock offset: -6.337 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.209 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.195 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.223 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.196 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

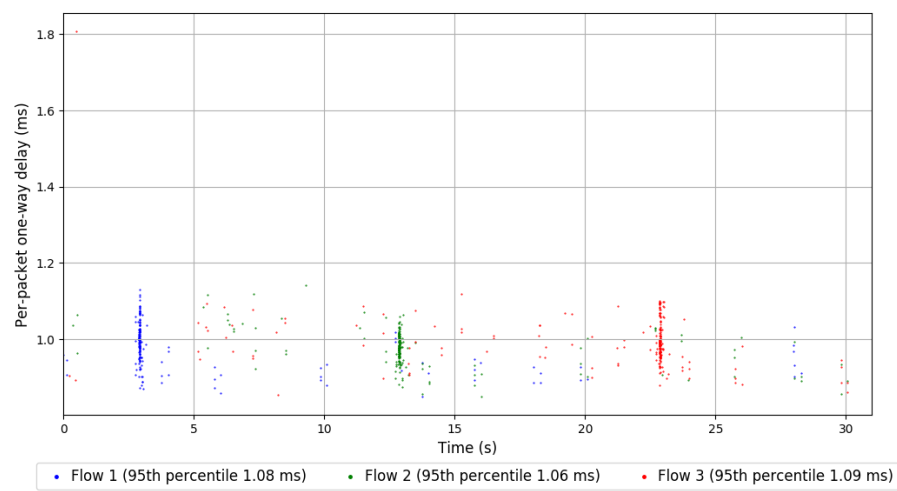
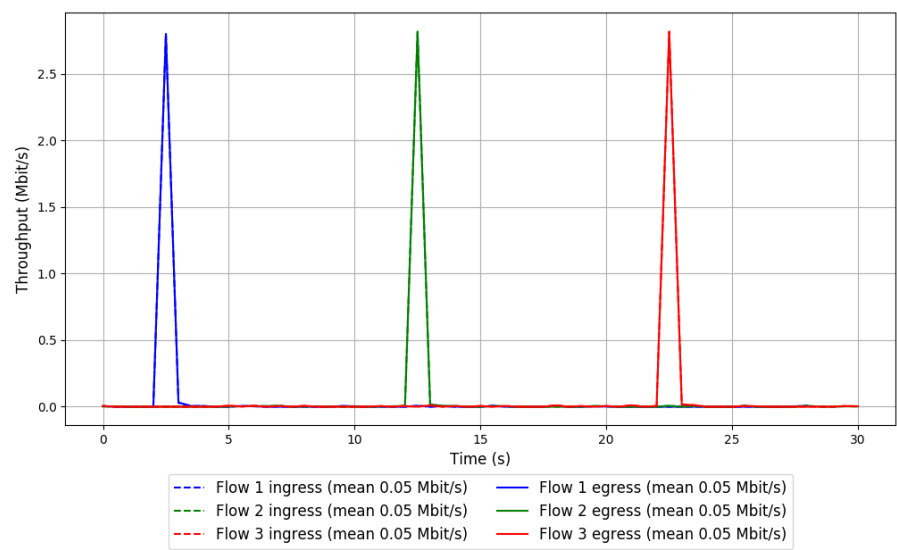


Run 2: Statistics of WebRTC media

Start at: 2018-02-13 14:17:21  
End at: 2018-02-13 14:17:51  
Local clock offset: 0.1 ms  
Remote clock offset: -5.505 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.083 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.077 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.056 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.094 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

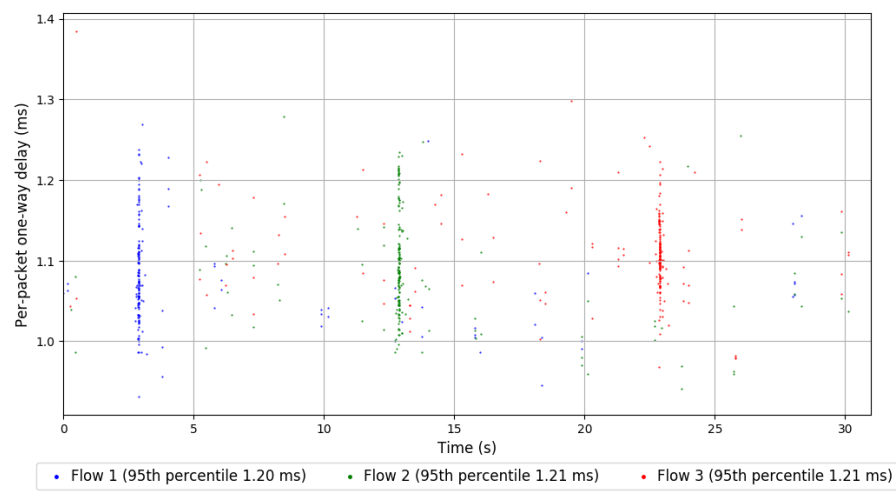
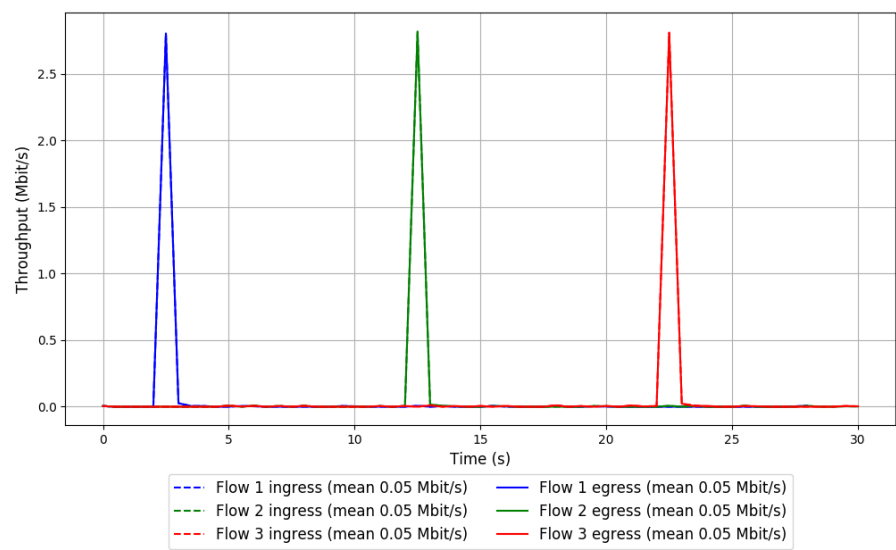


Run 3: Statistics of WebRTC media

Start at: 2018-02-13 14:46:27  
End at: 2018-02-13 14:46:57  
Local clock offset: 0.385 ms  
Remote clock offset: -4.907 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.210 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.202 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.213 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.210 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

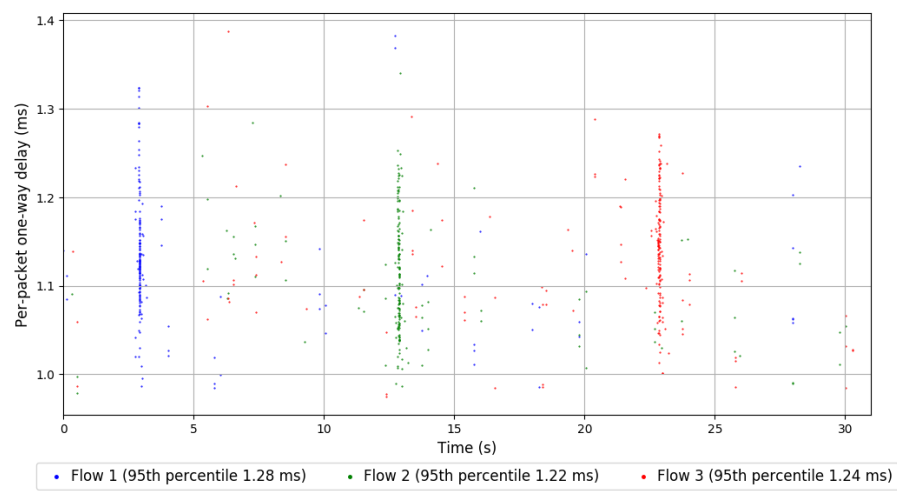
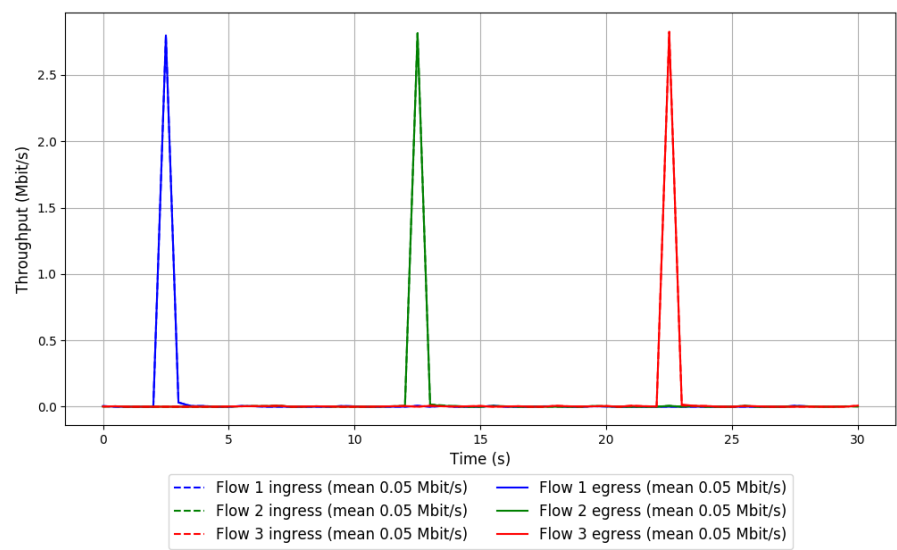


Run 4: Statistics of WebRTC media

Start at: 2018-02-13 15:15:38  
End at: 2018-02-13 15:16:08  
Local clock offset: 0.332 ms  
Remote clock offset: -5.832 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.283 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.224 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.241 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

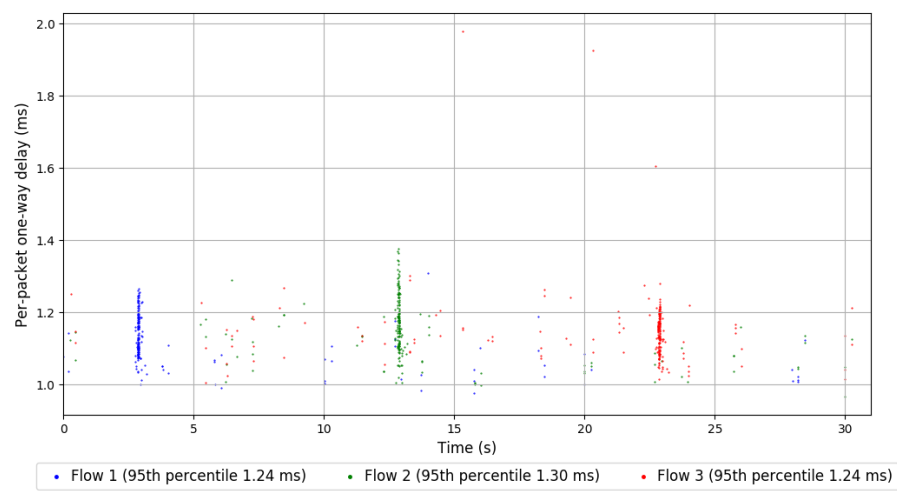
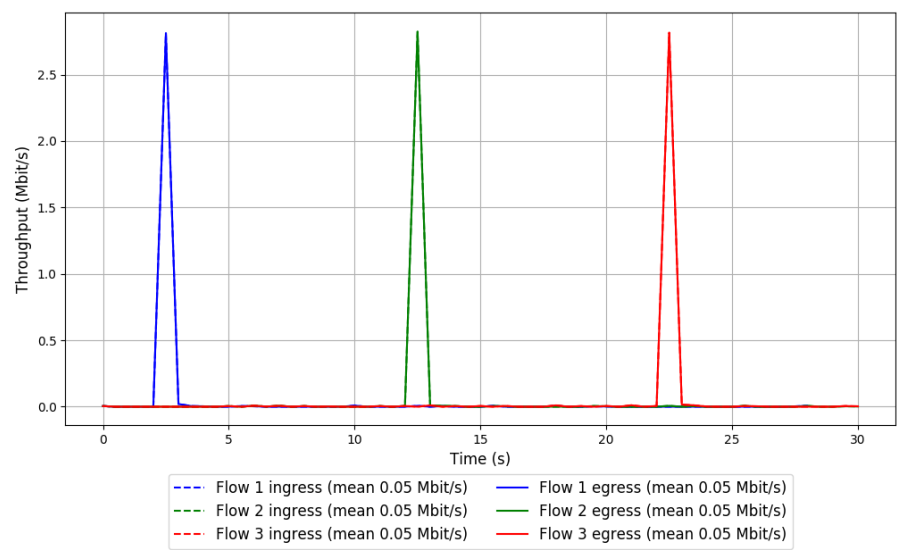


Run 5: Statistics of WebRTC media

Start at: 2018-02-13 15:44:40  
End at: 2018-02-13 15:45:10  
Local clock offset: 0.026 ms  
Remote clock offset: -6.936 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.265 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.241 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.297 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.242 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

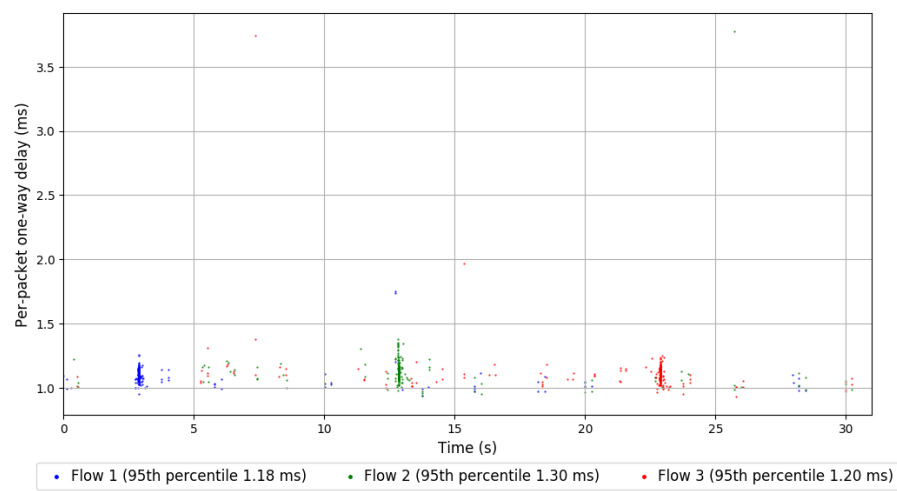
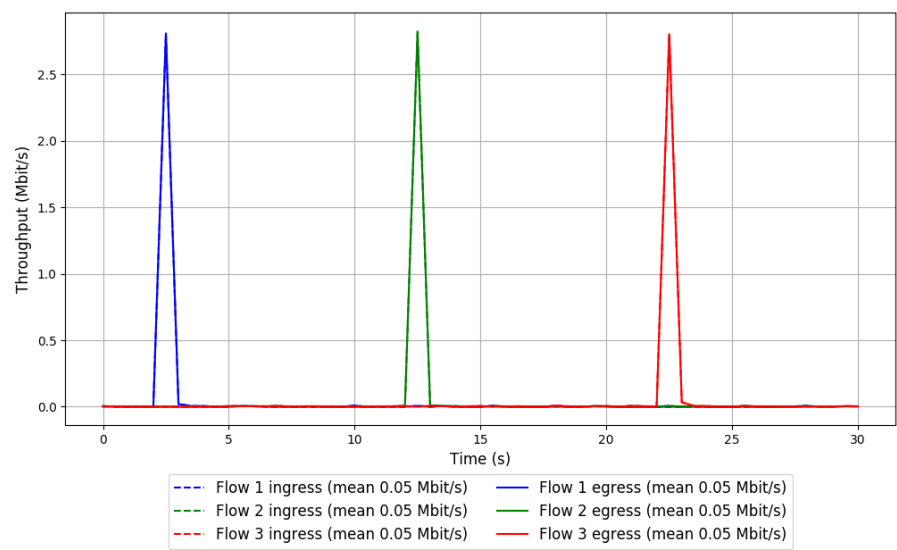


Run 6: Statistics of WebRTC media

Start at: 2018-02-13 16:13:47  
End at: 2018-02-13 16:14:17  
Local clock offset: -0.302 ms  
Remote clock offset: -6.956 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.229 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.175 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.299 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.203 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

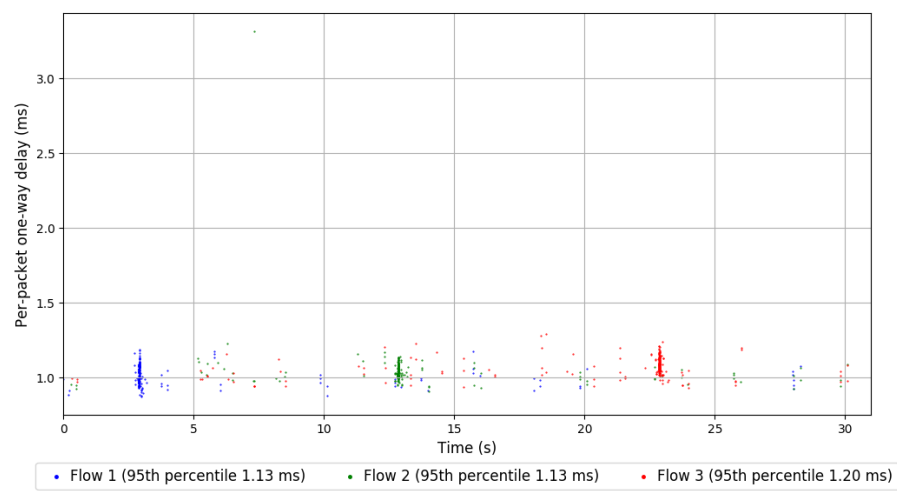
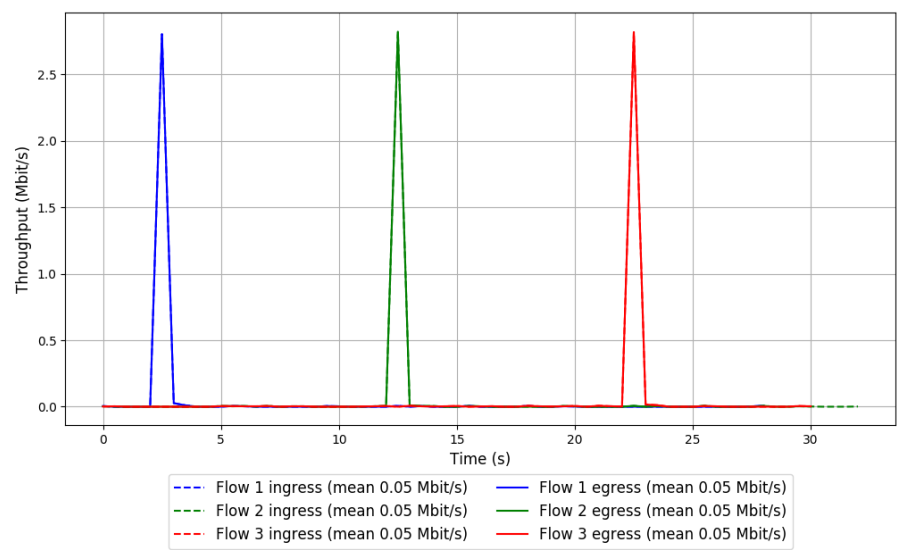


Run 7: Statistics of WebRTC media

Start at: 2018-02-13 16:42:51  
End at: 2018-02-13 16:43:21  
Local clock offset: -0.592 ms  
Remote clock offset: -5.689 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

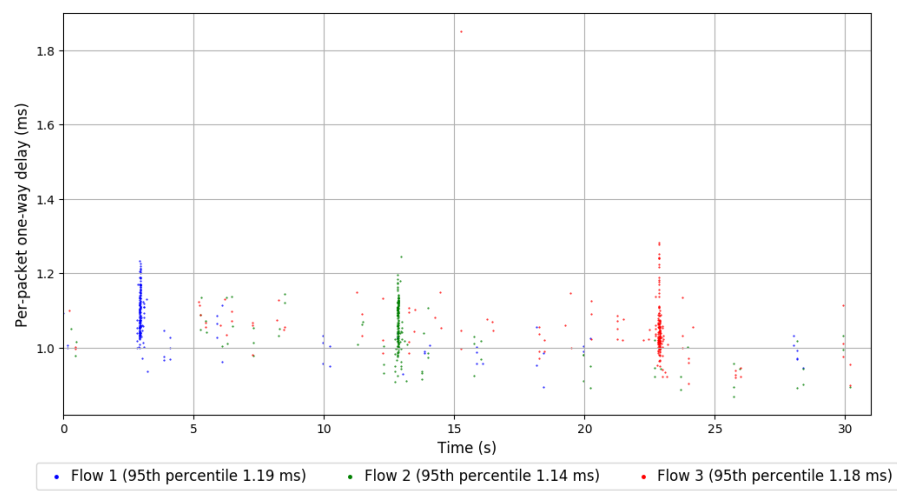
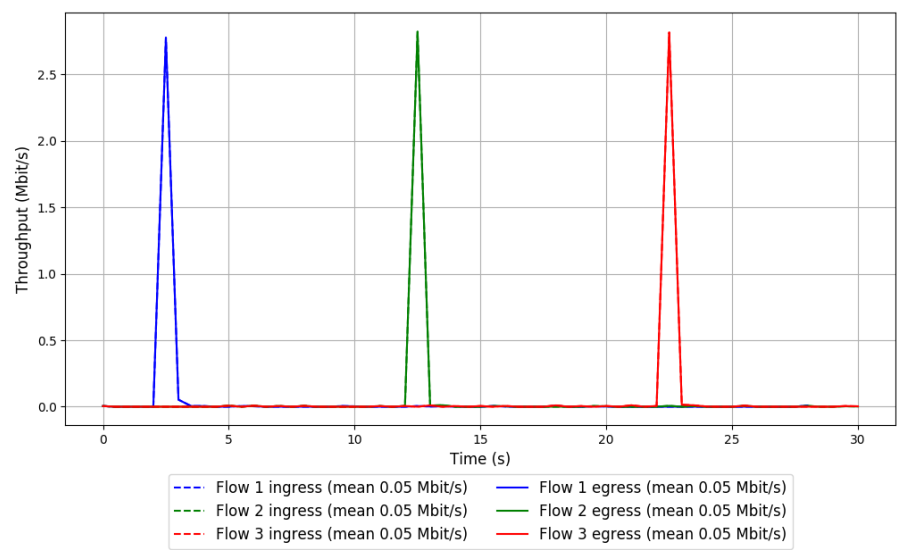


Run 8: Statistics of WebRTC media

Start at: 2018-02-13 17:11:43  
End at: 2018-02-13 17:12:13  
Local clock offset: 2.749 ms  
Remote clock offset: -4.502 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.172 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.190 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.142 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.176 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

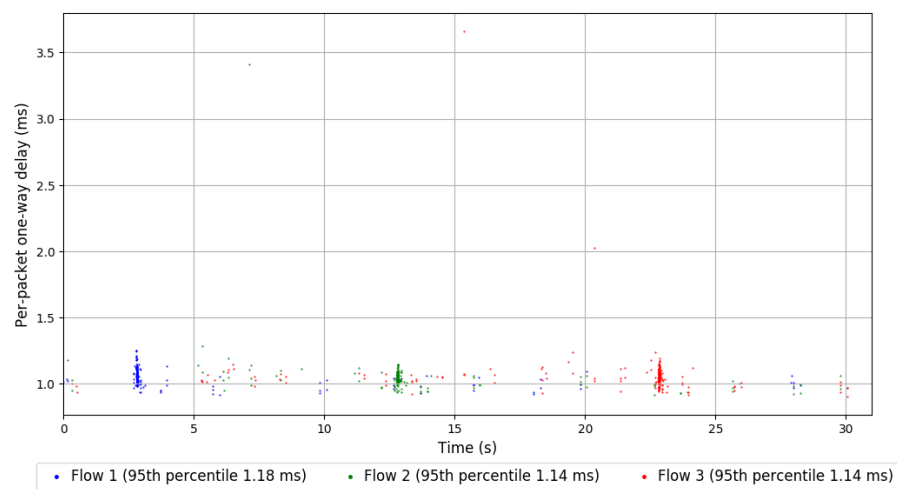
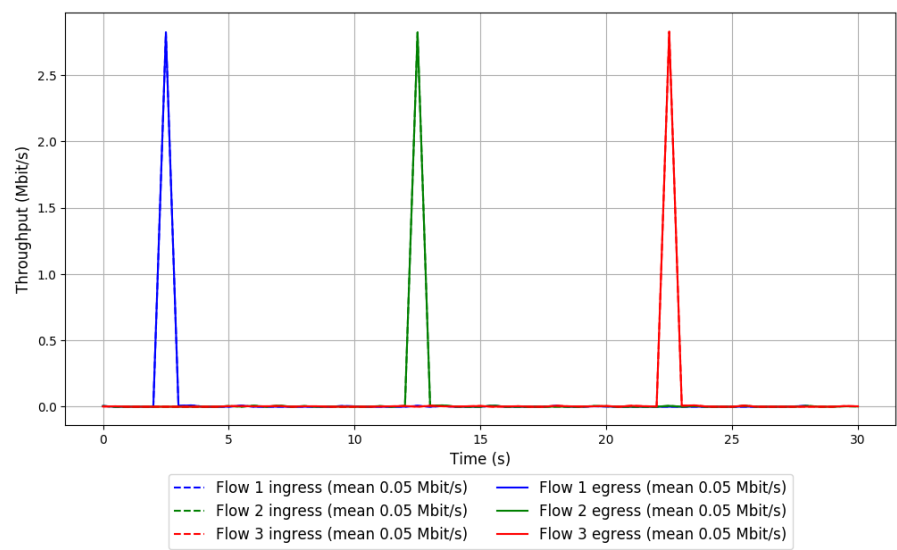


Run 9: Statistics of WebRTC media

Start at: 2018-02-13 17:40:47  
End at: 2018-02-13 17:41:17  
Local clock offset: 3.869 ms  
Remote clock offset: -4.625 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.142 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.175 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.136 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.144 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

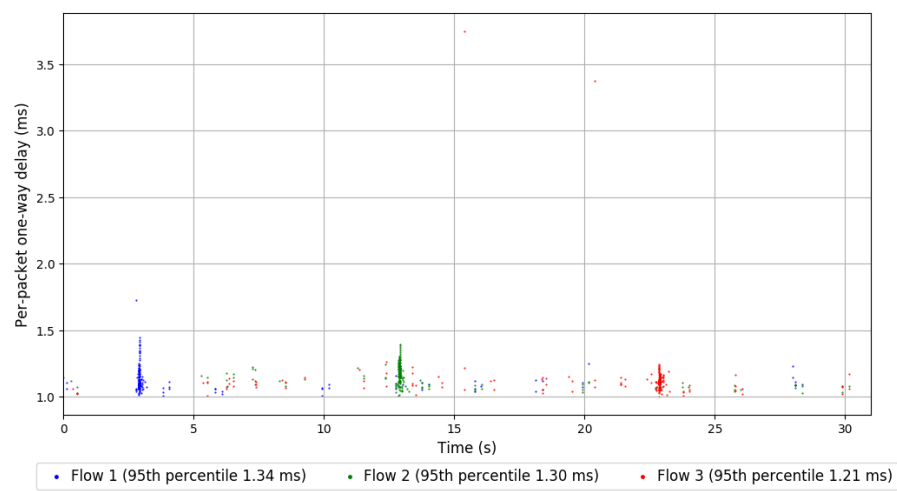
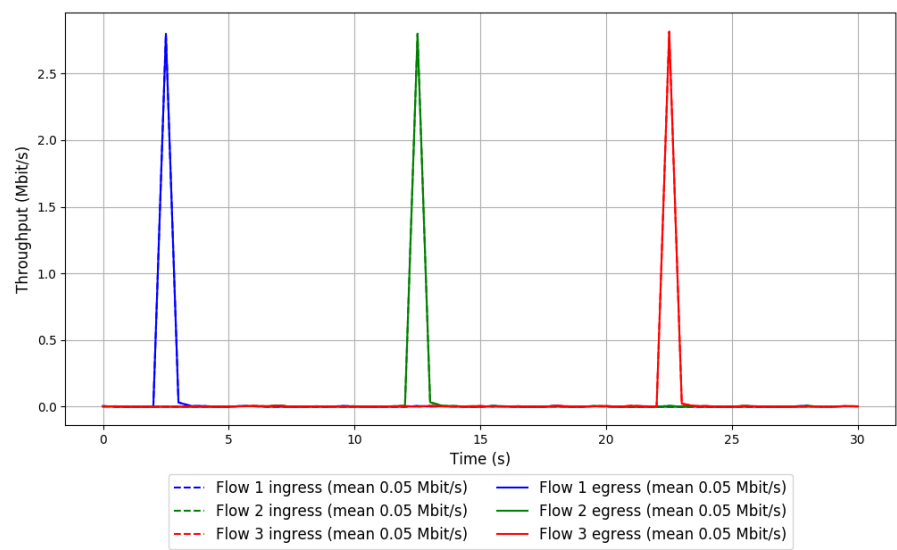


Run 10: Statistics of WebRTC media

Start at: 2018-02-13 18:09:57  
End at: 2018-02-13 18:10:27  
Local clock offset: -0.084 ms  
Remote clock offset: -5.204 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.280 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.342 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.296 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.209 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

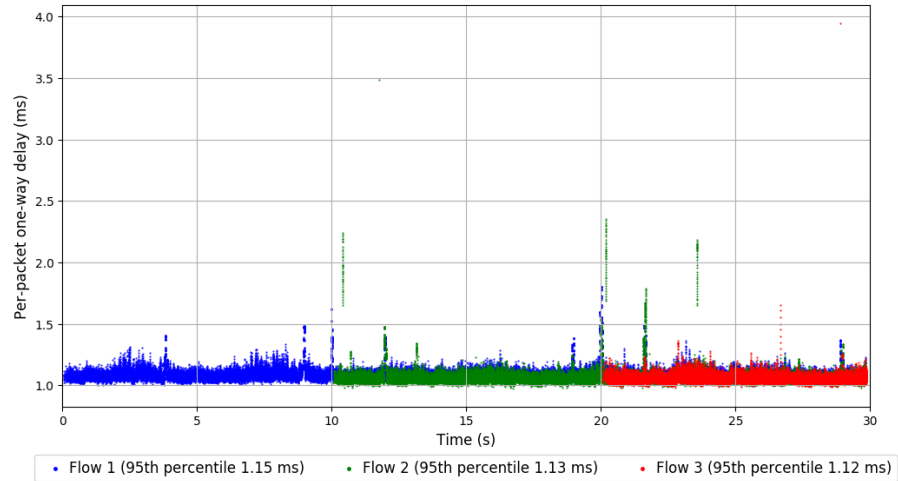
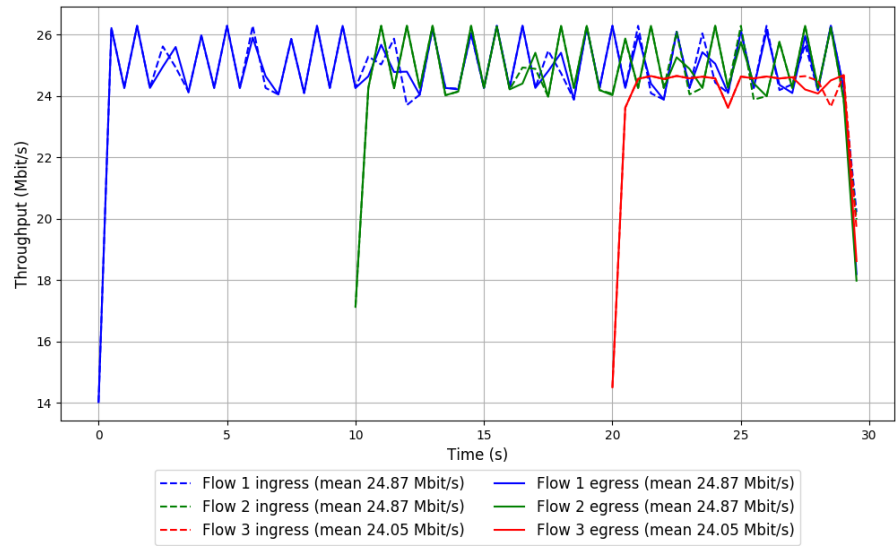


Run 1: Statistics of Sprout

Start at: 2018-02-13 13:39:03  
End at: 2018-02-13 13:39:33  
Local clock offset: -0.025 ms  
Remote clock offset: -6.769 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.26 Mbit/s  
95th percentile per-packet one-way delay: 1.142 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 24.87 Mbit/s  
95th percentile per-packet one-way delay: 1.153 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 24.87 Mbit/s  
95th percentile per-packet one-way delay: 1.126 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 24.05 Mbit/s  
95th percentile per-packet one-way delay: 1.123 ms  
Loss rate: 0.22%

# Run 1: Report of Sprout — Data Link

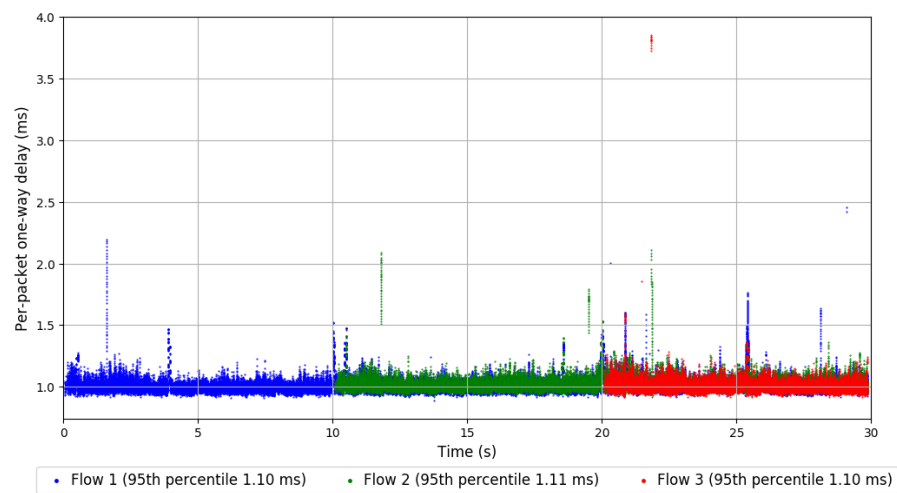
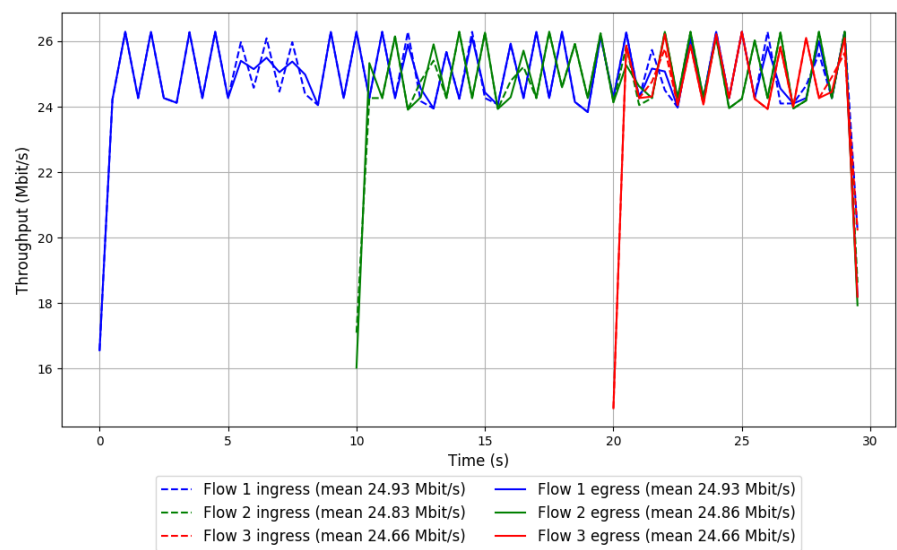


Run 2: Statistics of Sprout

Start at: 2018-02-13 14:08:11  
End at: 2018-02-13 14:08:41  
Local clock offset: 0.04 ms  
Remote clock offset: -5.682 ms

# Below is generated by plot.py at 2018-02-14 00:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.52 Mbit/s  
95th percentile per-packet one-way delay: 1.101 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 24.93 Mbit/s  
95th percentile per-packet one-way delay: 1.097 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 24.86 Mbit/s  
95th percentile per-packet one-way delay: 1.107 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 24.66 Mbit/s  
95th percentile per-packet one-way delay: 1.096 ms  
Loss rate: 0.42%

Run 2: Report of Sprout — Data Link

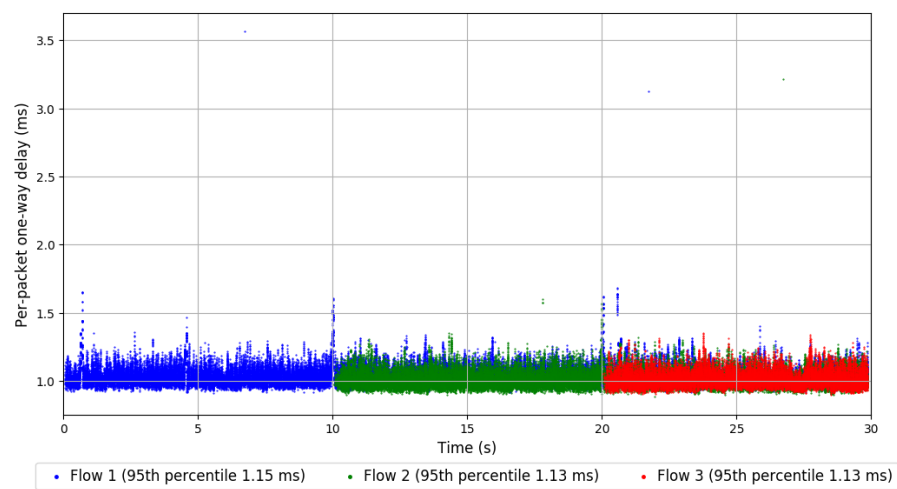
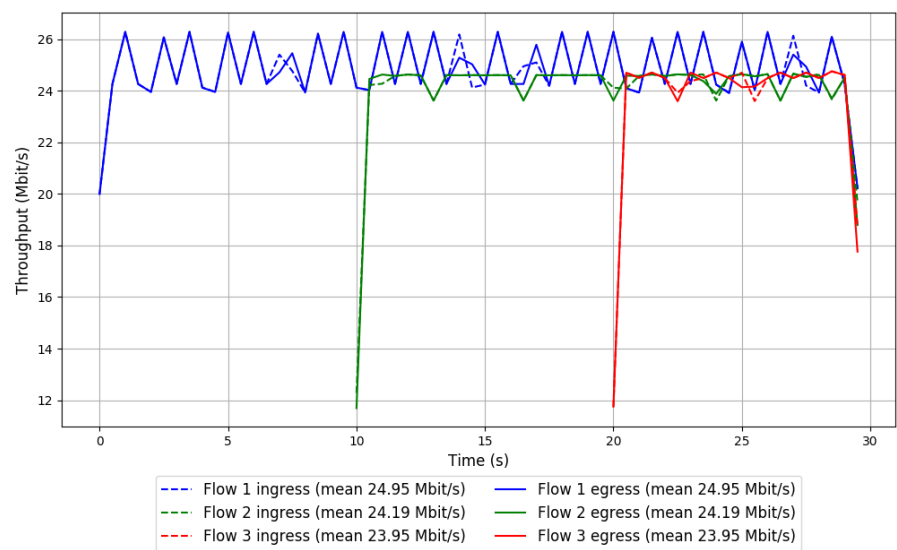


### Run 3: Statistics of Sprout

Start at: 2018-02-13 14:37:10  
End at: 2018-02-13 14:37:40  
Local clock offset: 0.317 ms  
Remote clock offset: -4.979 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.88 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.21%
```

Run 3: Report of Sprout — Data Link

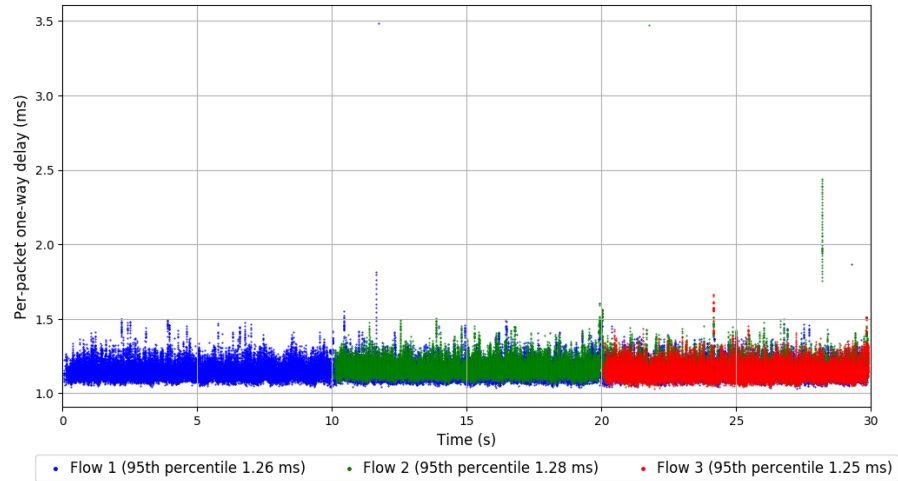
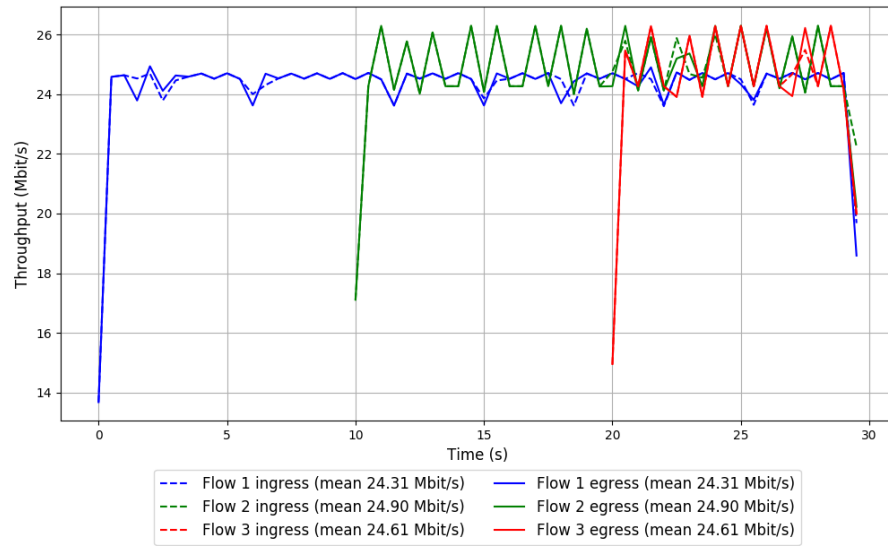


#### Run 4: Statistics of Sprout

Start at: 2018-02-13 15:06:20  
End at: 2018-02-13 15:06:50  
Local clock offset: 0.46 ms  
Remote clock offset: -5.691 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.97 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 1.253 ms
Loss rate: 0.00%
```

#### Run 4: Report of Sprout — Data Link

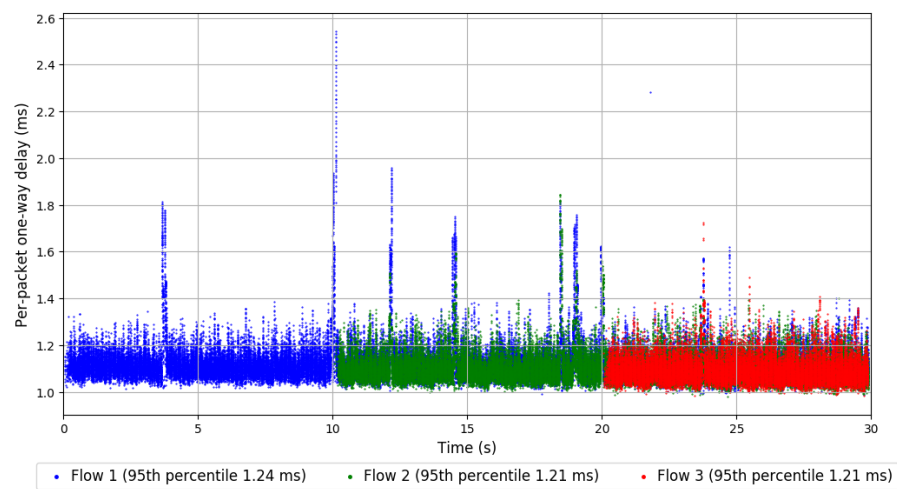
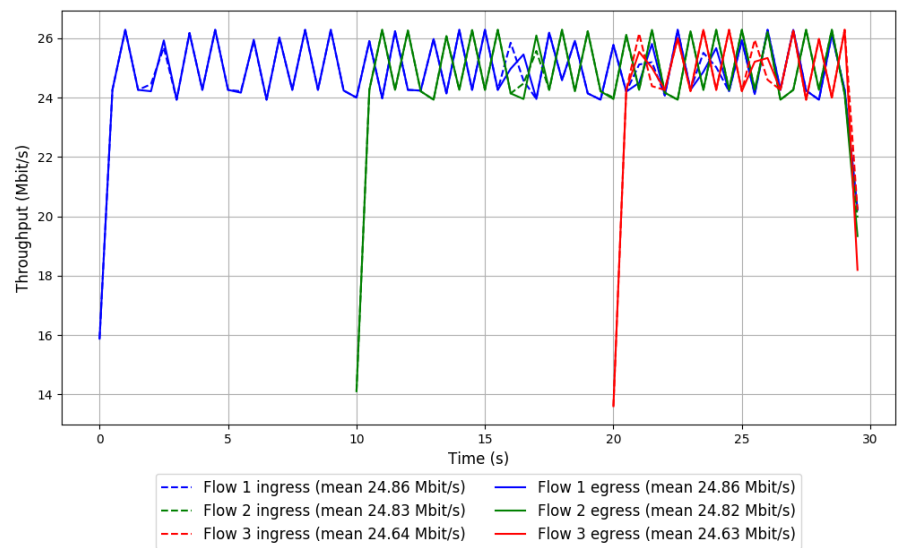


Run 5: Statistics of Sprout

Start at: 2018-02-13 15:35:26  
End at: 2018-02-13 15:35:56  
Local clock offset: 0.232 ms  
Remote clock offset: -6.622 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.43 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.42%
```

Run 5: Report of Sprout — Data Link

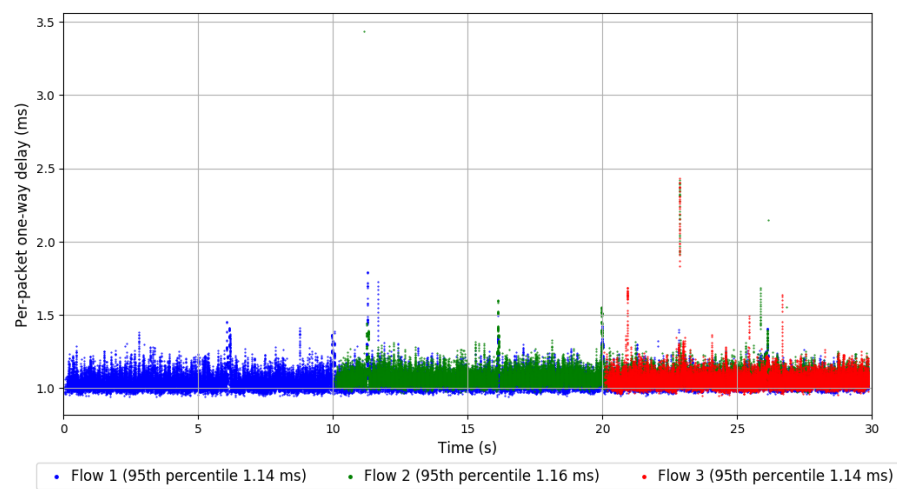
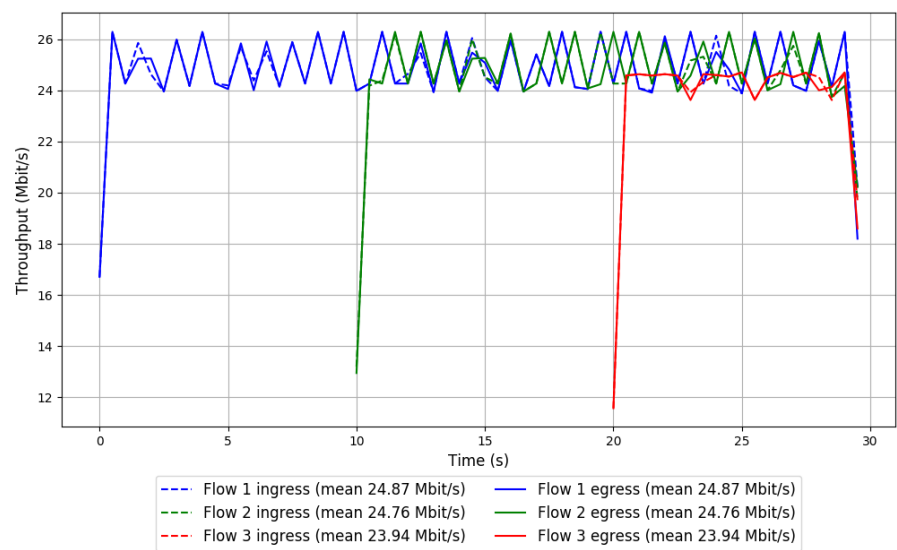


Run 6: Statistics of Sprout

Start at: 2018-02-13 16:04:33  
End at: 2018-02-13 16:05:03  
Local clock offset: -0.201 ms  
Remote clock offset: -6.973 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.17 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.23%
```

Run 6: Report of Sprout — Data Link

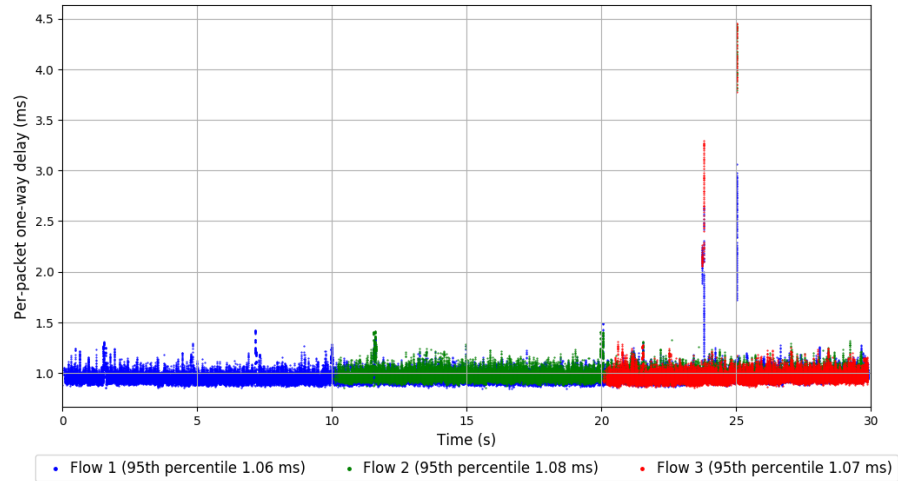
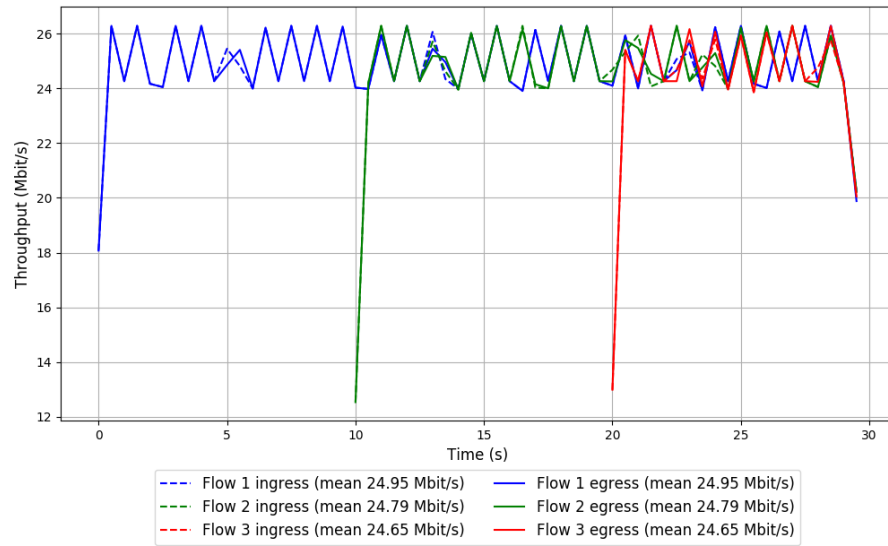


Run 7: Statistics of Sprout

Start at: 2018-02-13 16:33:37  
End at: 2018-02-13 16:34:07  
Local clock offset: -0.573 ms  
Remote clock offset: -6.982 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.060 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 1.068 ms
Loss rate: 0.00%
```

## Run 7: Report of Sprout — Data Link

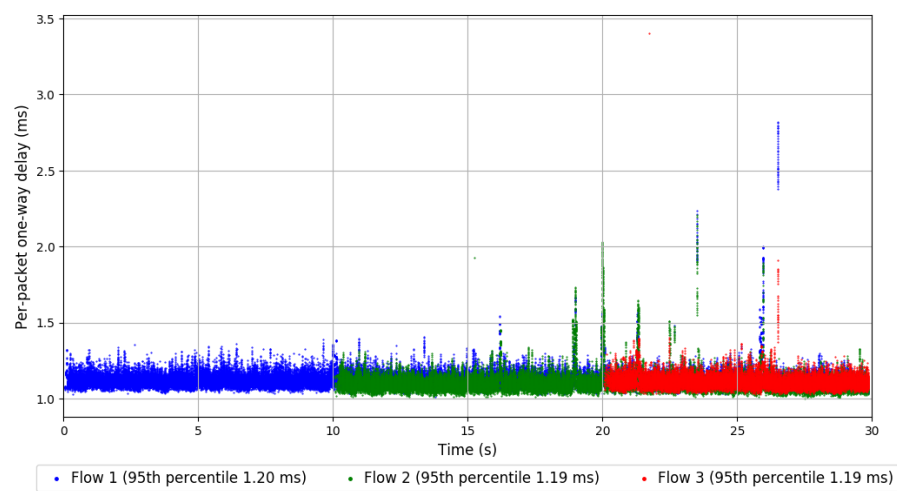
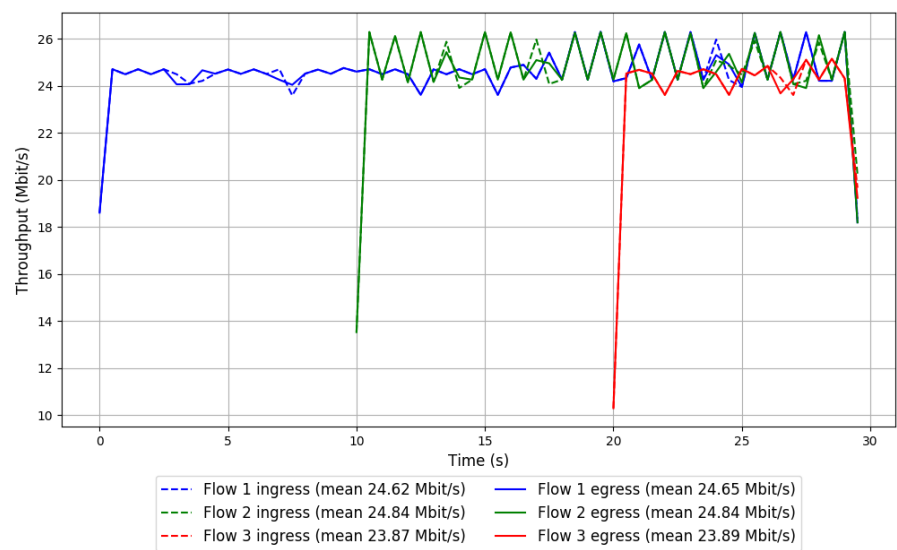


Run 8: Statistics of Sprout

Start at: 2018-02-13 17:02:28  
End at: 2018-02-13 17:02:58  
Local clock offset: 2.223 ms  
Remote clock offset: -4.431 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.97 Mbit/s
95th percentile per-packet one-way delay: 1.198 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.09%
```

Run 8: Report of Sprout — Data Link

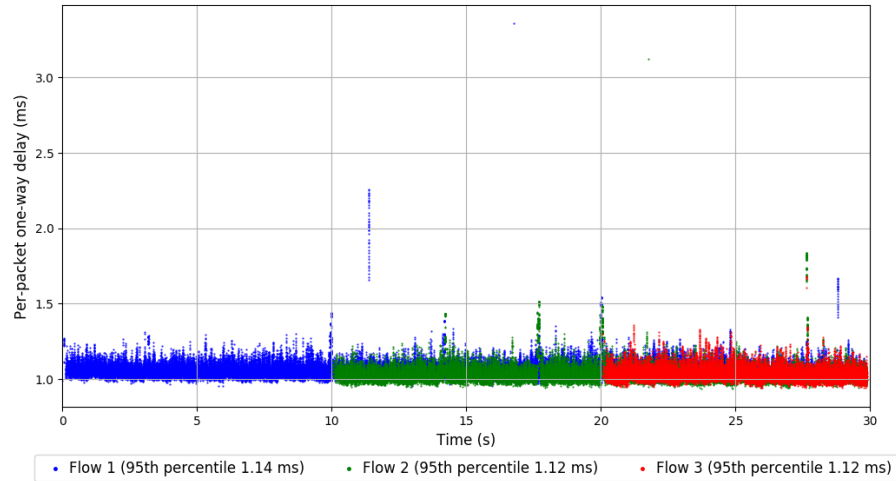
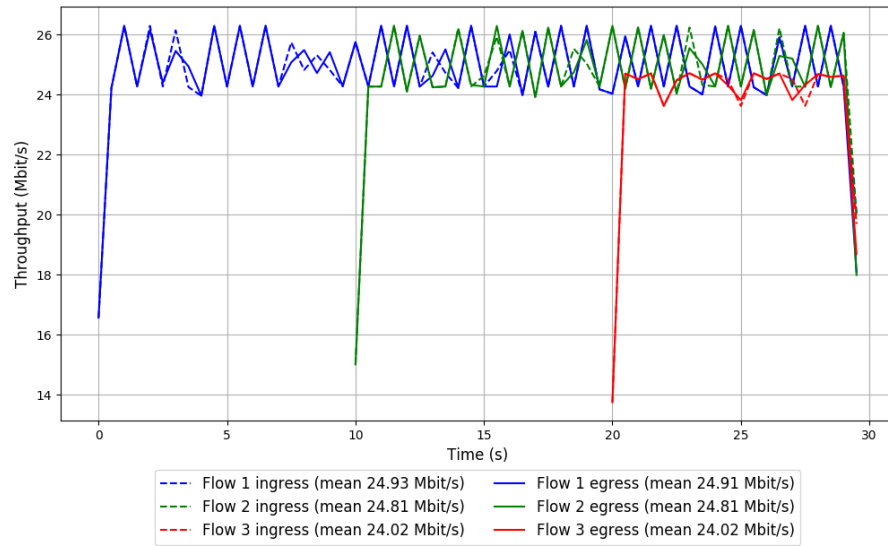


Run 9: Statistics of Sprout

Start at: 2018-02-13 17:31:30  
End at: 2018-02-13 17:32:00  
Local clock offset: 3.543 ms  
Remote clock offset: -4.85 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.21%
```

## Run 9: Report of Sprout — Data Link

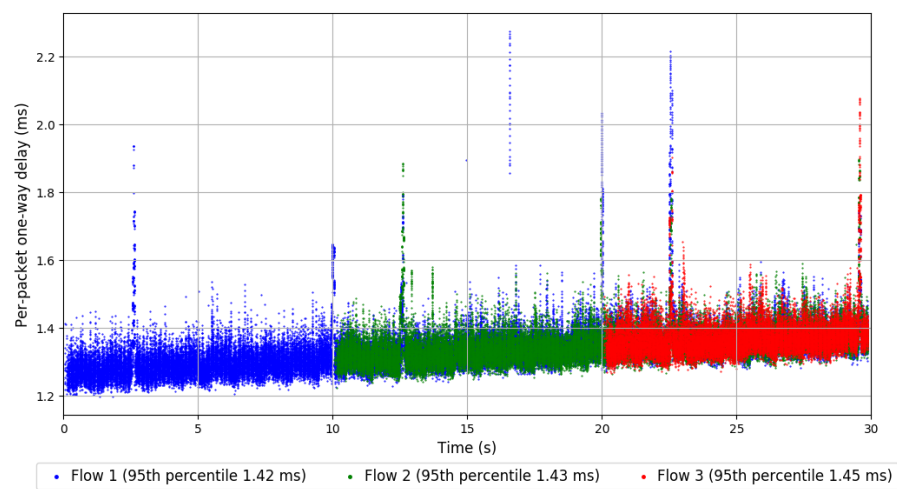
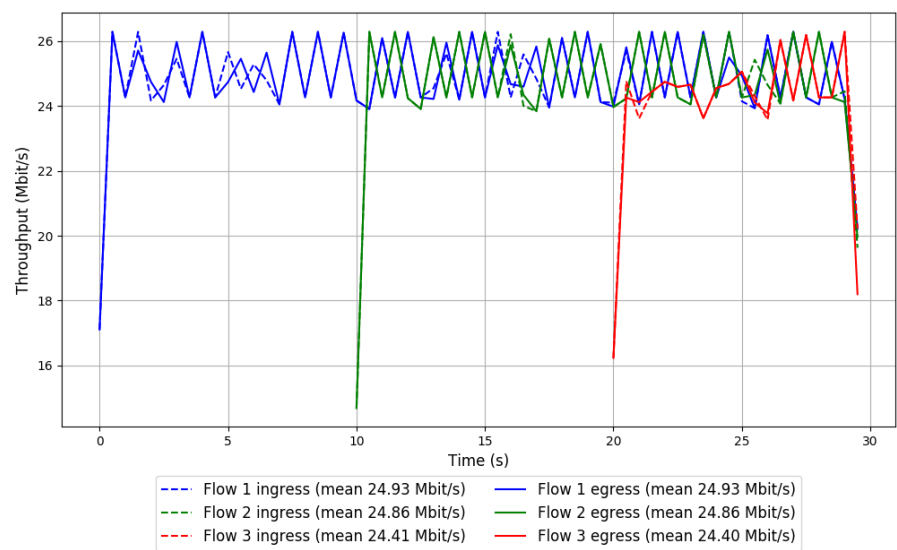


Run 10: Statistics of Sprout

Start at: 2018-02-13 18:00:45  
End at: 2018-02-13 18:01:15  
Local clock offset: 1.498 ms  
Remote clock offset: -5.254 ms

```
# Below is generated by plot.py at 2018-02-14 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.43 Mbit/s
95th percentile per-packet one-way delay: 1.431 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 1.421 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 1.432 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 1.452 ms
Loss rate: 0.42%
```

Run 10: Report of Sprout — Data Link

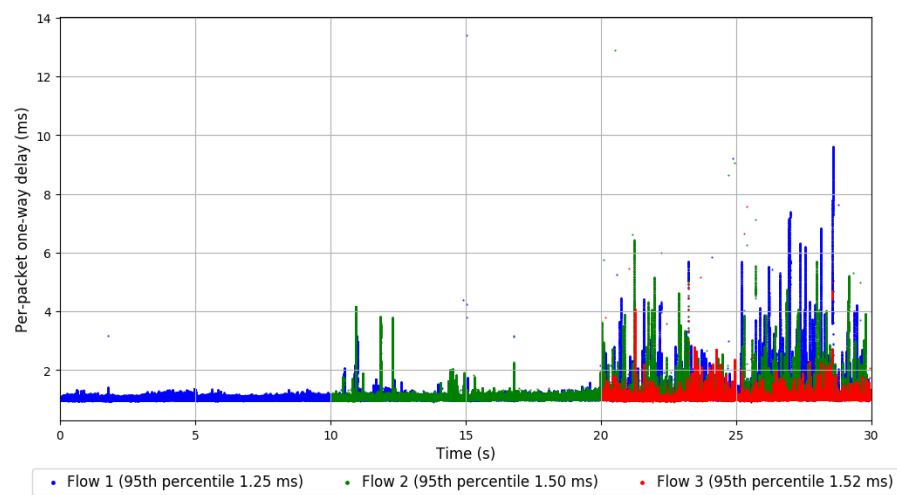
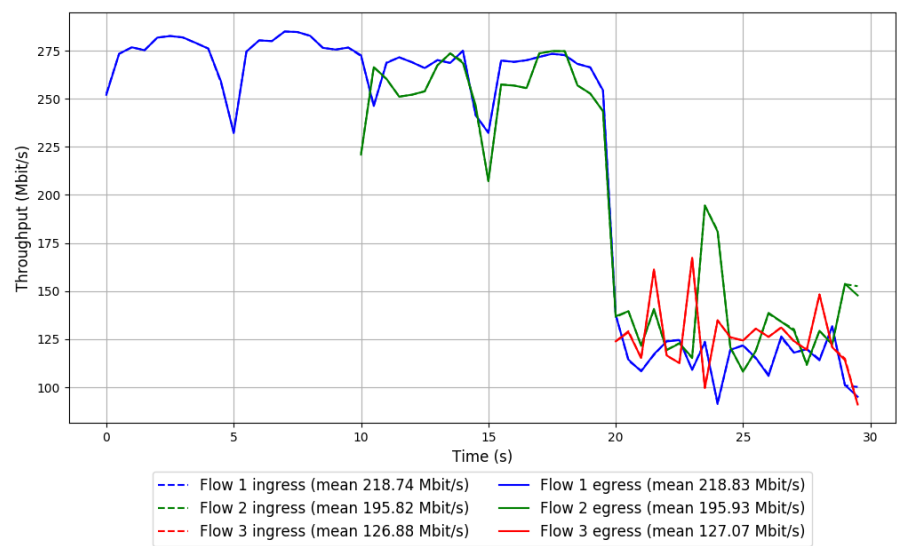


Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 13:43:37  
End at: 2018-02-13 13:44:07  
Local clock offset: -0.099 ms  
Remote clock offset: -6.773 ms

# Below is generated by plot.py at 2018-02-14 00:38:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 391.14 Mbit/s  
95th percentile per-packet one-way delay: 1.376 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 218.83 Mbit/s  
95th percentile per-packet one-way delay: 1.247 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 195.93 Mbit/s  
95th percentile per-packet one-way delay: 1.501 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 127.07 Mbit/s  
95th percentile per-packet one-way delay: 1.517 ms  
Loss rate: 0.05%

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

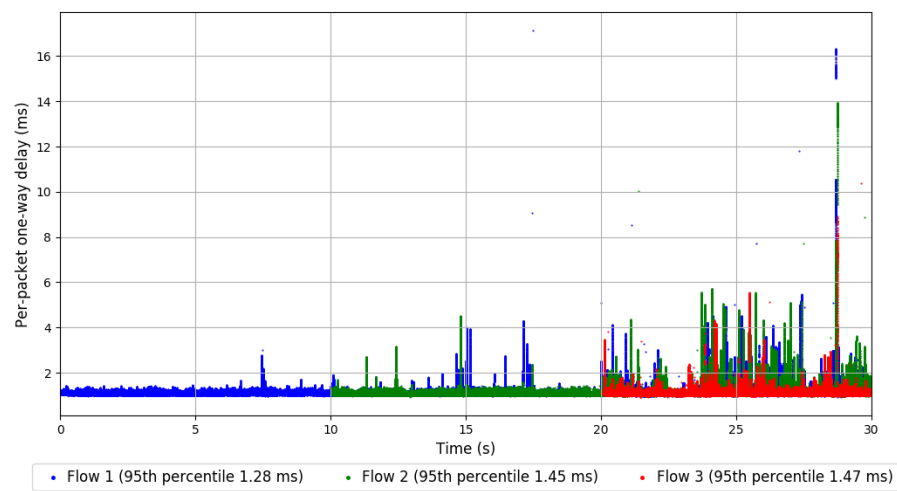
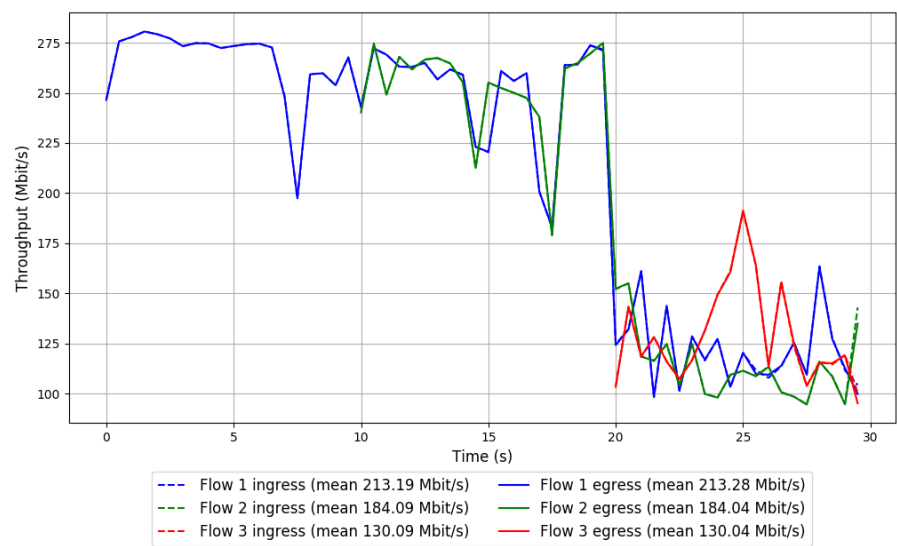


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 14:12:44  
End at: 2018-02-13 14:13:14  
Local clock offset: 0.148 ms  
Remote clock offset: -5.619 ms

# Below is generated by plot.py at 2018-02-14 00:38:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 378.75 Mbit/s  
95th percentile per-packet one-way delay: 1.350 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 213.28 Mbit/s  
95th percentile per-packet one-way delay: 1.284 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 184.04 Mbit/s  
95th percentile per-packet one-way delay: 1.448 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 130.04 Mbit/s  
95th percentile per-packet one-way delay: 1.467 ms  
Loss rate: 0.22%

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

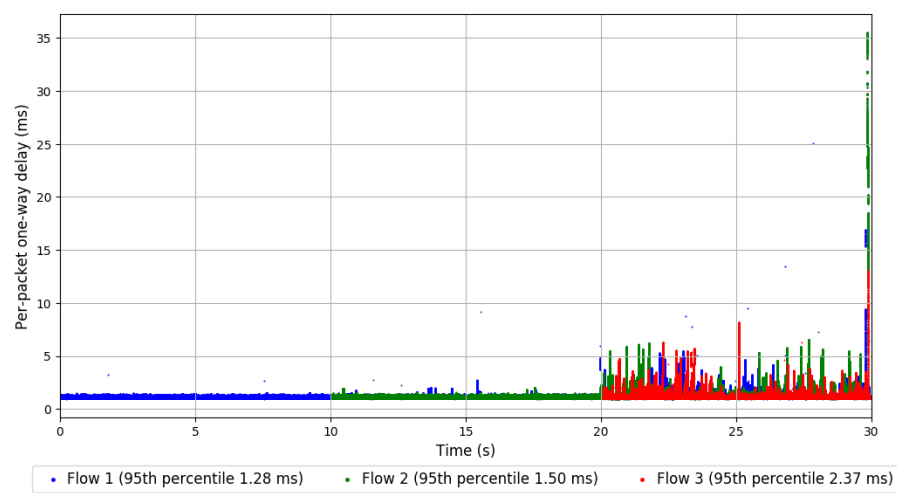
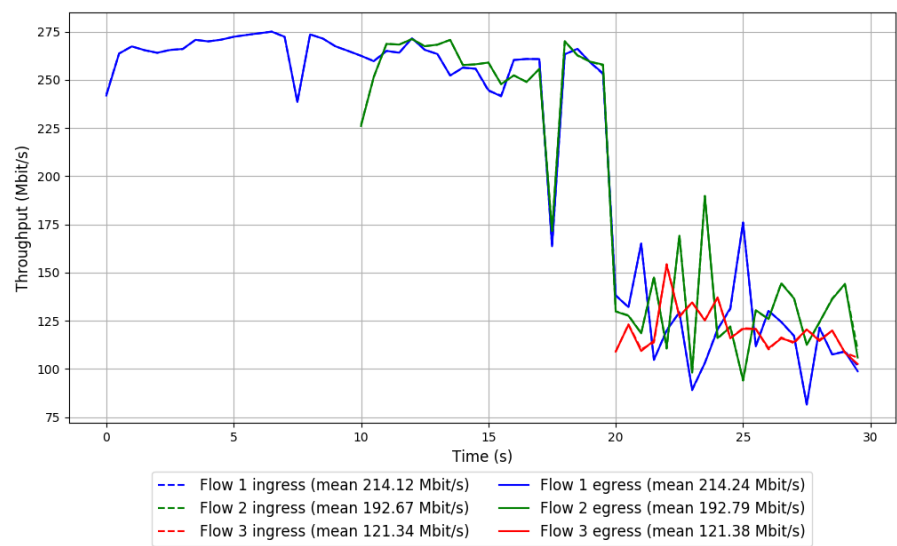


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 14:41:43  
End at: 2018-02-13 14:42:13  
Local clock offset: 0.365 ms  
Remote clock offset: -4.994 ms

# Below is generated by plot.py at 2018-02-14 00:38:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 382.51 Mbit/s  
95th percentile per-packet one-way delay: 1.436 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 214.24 Mbit/s  
95th percentile per-packet one-way delay: 1.285 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 192.79 Mbit/s  
95th percentile per-packet one-way delay: 1.504 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 121.38 Mbit/s  
95th percentile per-packet one-way delay: 2.367 ms  
Loss rate: 0.15%

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

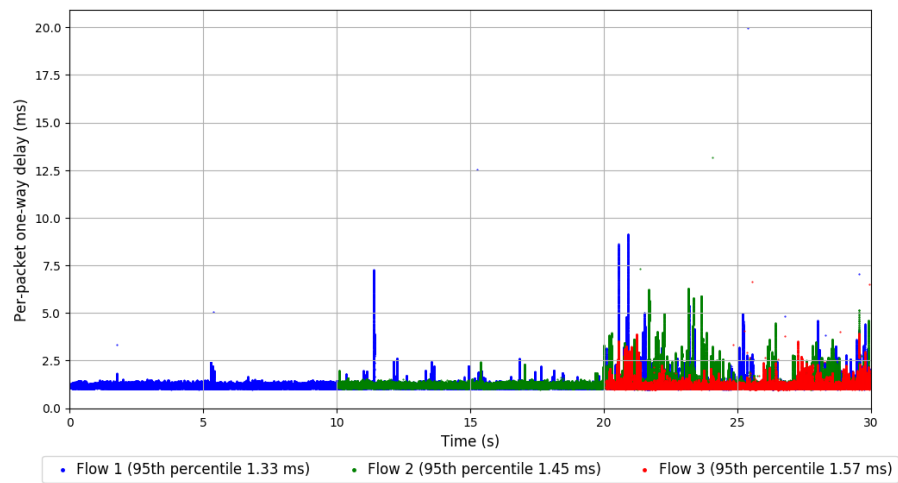
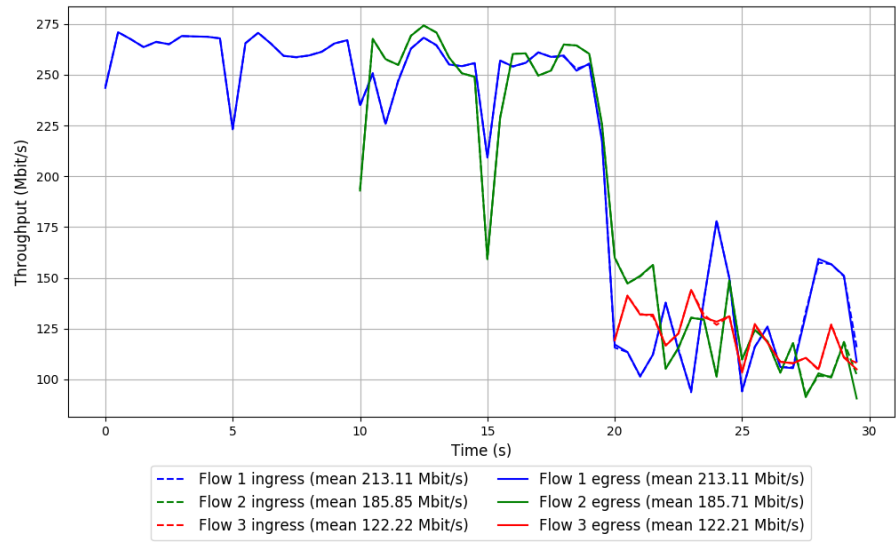


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 15:10:55  
End at: 2018-02-13 15:11:25  
Local clock offset: 0.386 ms  
Remote clock offset: -5.787 ms

# Below is generated by plot.py at 2018-02-14 00:38:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 376.98 Mbit/s  
95th percentile per-packet one-way delay: 1.389 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 213.11 Mbit/s  
95th percentile per-packet one-way delay: 1.331 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 185.71 Mbit/s  
95th percentile per-packet one-way delay: 1.450 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 122.21 Mbit/s  
95th percentile per-packet one-way delay: 1.571 ms  
Loss rate: 0.15%

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

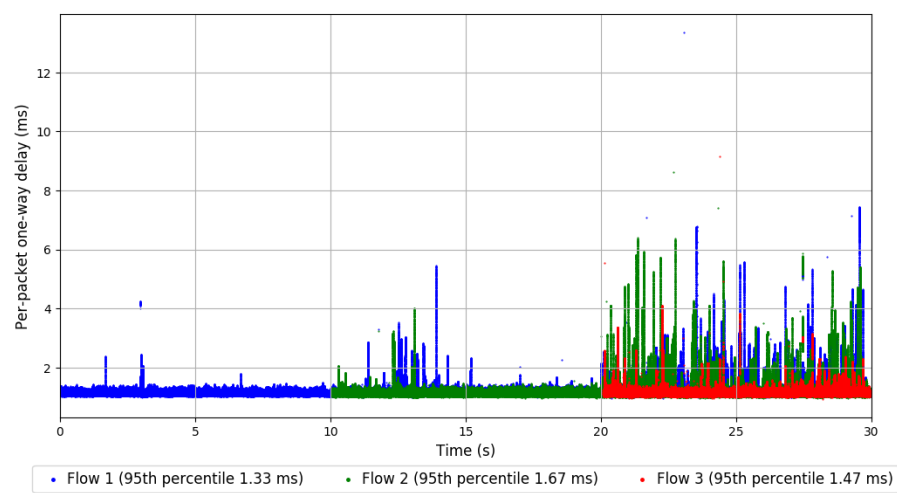
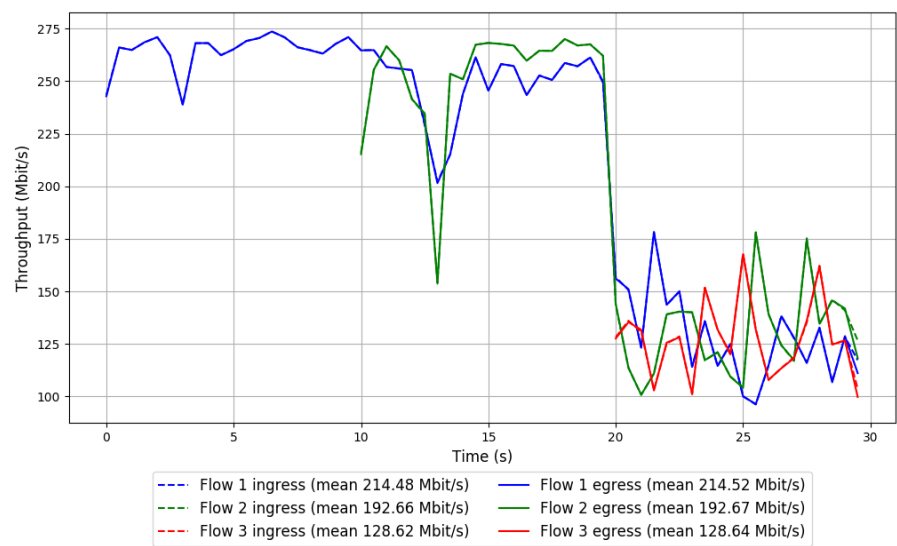


Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 15:39:57  
End at: 2018-02-13 15:40:27  
Local clock offset: 0.159 ms  
Remote clock offset: -6.782 ms

# Below is generated by plot.py at 2018-02-14 00:39:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 385.13 Mbit/s  
95th percentile per-packet one-way delay: 1.437 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 214.52 Mbit/s  
95th percentile per-packet one-way delay: 1.335 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 192.67 Mbit/s  
95th percentile per-packet one-way delay: 1.673 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 128.64 Mbit/s  
95th percentile per-packet one-way delay: 1.466 ms  
Loss rate: 0.17%

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

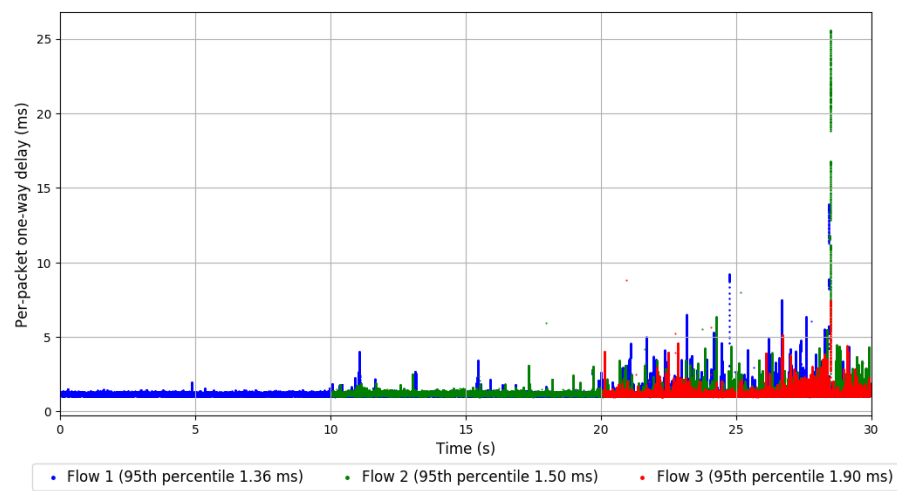
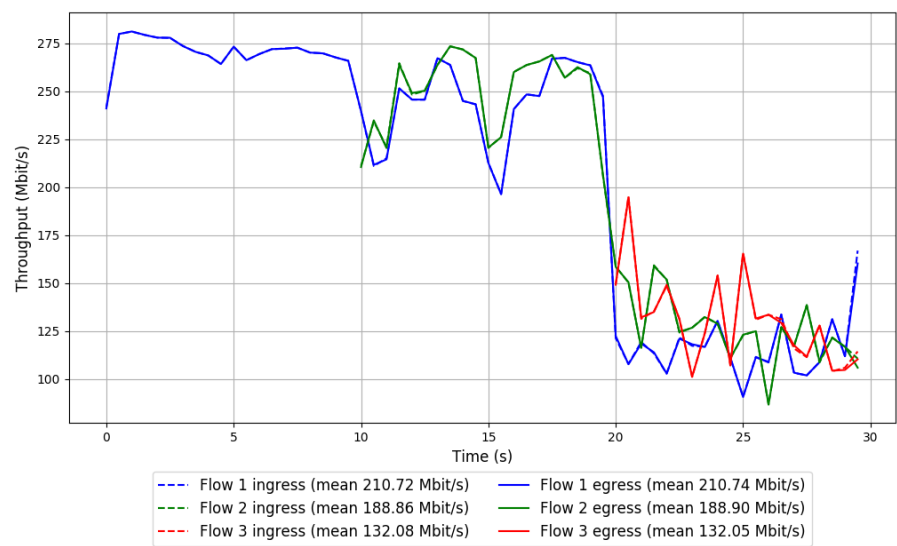


Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 16:09:04  
End at: 2018-02-13 16:09:34  
Local clock offset: -0.248 ms  
Remote clock offset: -7.005 ms

# Below is generated by plot.py at 2018-02-14 00:39:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 379.99 Mbit/s  
95th percentile per-packet one-way delay: 1.491 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 210.74 Mbit/s  
95th percentile per-packet one-way delay: 1.359 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 188.90 Mbit/s  
95th percentile per-packet one-way delay: 1.499 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 132.05 Mbit/s  
95th percentile per-packet one-way delay: 1.903 ms  
Loss rate: 0.20%

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

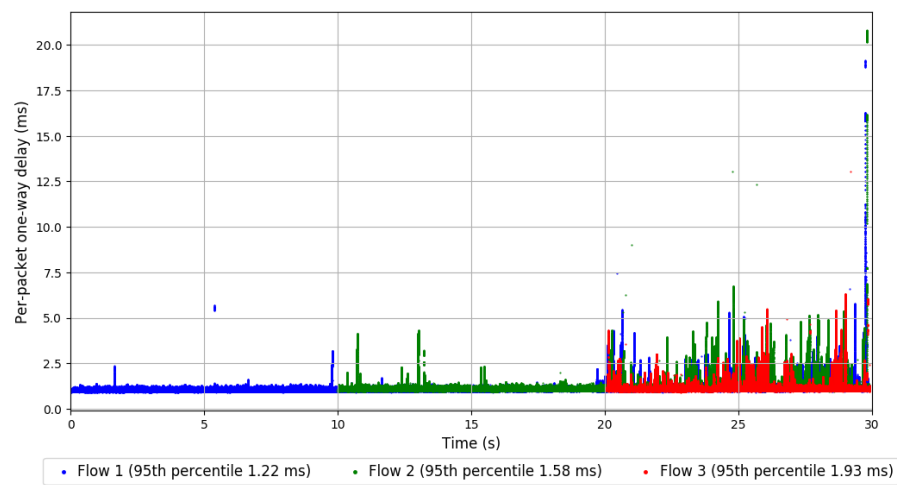
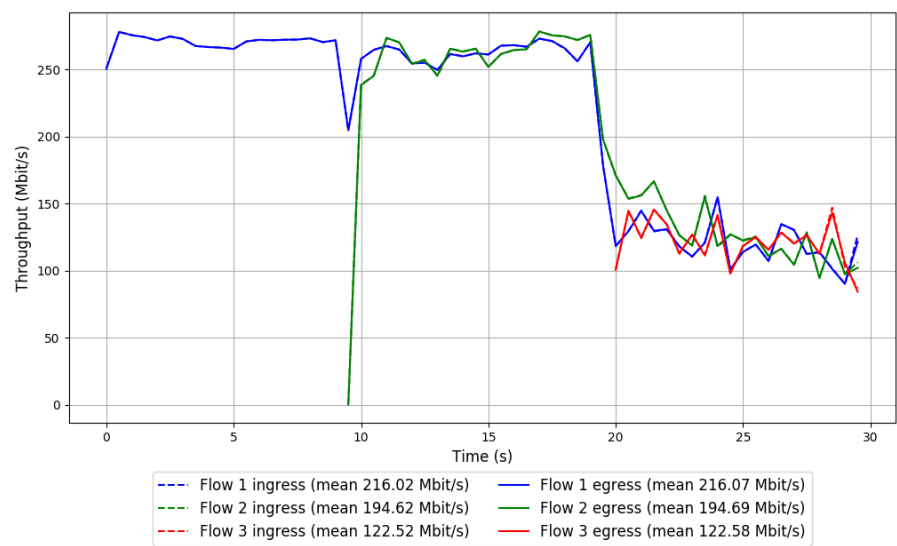


Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 16:38:09  
End at: 2018-02-13 16:38:39  
Local clock offset: -0.592 ms  
Remote clock offset: -6.316 ms

# Below is generated by plot.py at 2018-02-14 00:39:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 386.25 Mbit/s  
95th percentile per-packet one-way delay: 1.400 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 216.07 Mbit/s  
95th percentile per-packet one-way delay: 1.218 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 194.69 Mbit/s  
95th percentile per-packet one-way delay: 1.583 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 122.58 Mbit/s  
95th percentile per-packet one-way delay: 1.934 ms  
Loss rate: 0.13%

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

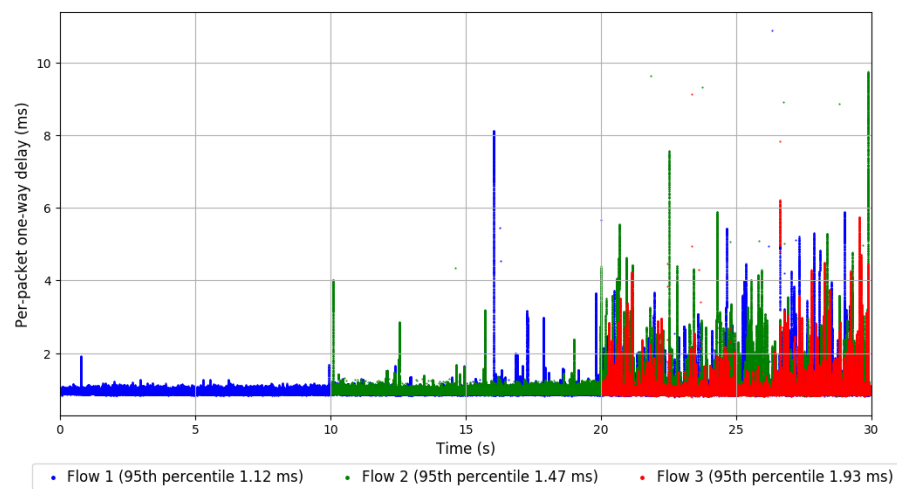
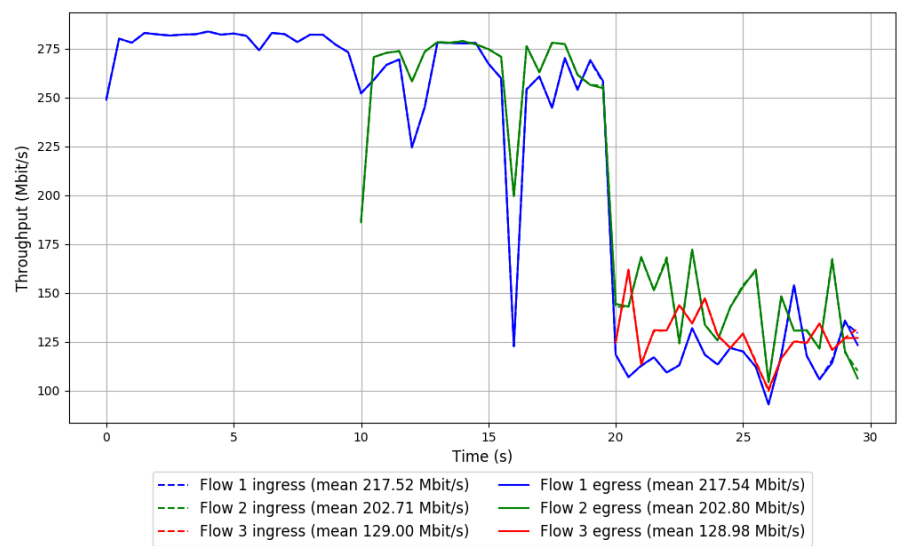


Run 8: Statistics of TaoVA-100x

Start at: 2018-02-13 17:07:02  
End at: 2018-02-13 17:07:32  
Local clock offset: 2.402 ms  
Remote clock offset: -4.146 ms

# Below is generated by plot.py at 2018-02-14 00:41:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 395.06 Mbit/s  
95th percentile per-packet one-way delay: 1.353 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 217.54 Mbit/s  
95th percentile per-packet one-way delay: 1.116 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 202.80 Mbit/s  
95th percentile per-packet one-way delay: 1.467 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 128.98 Mbit/s  
95th percentile per-packet one-way delay: 1.926 ms  
Loss rate: 0.20%

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

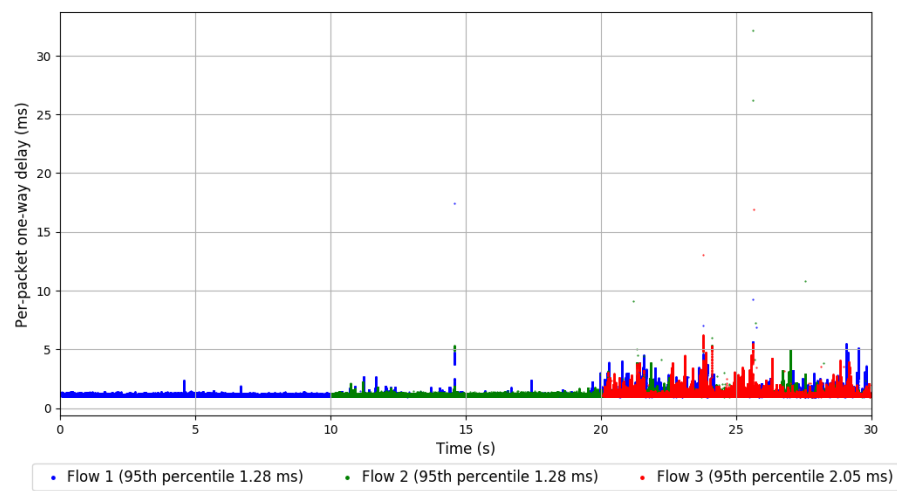
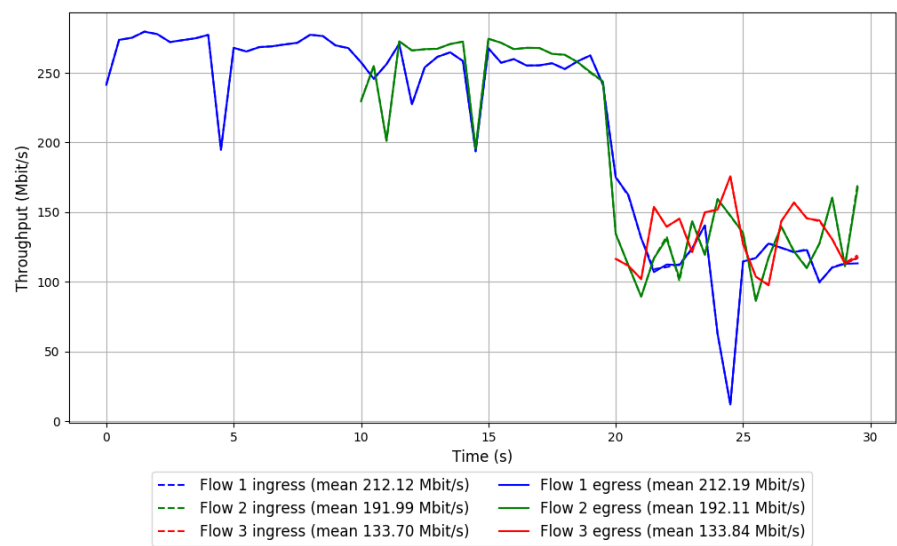


Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 17:36:03  
End at: 2018-02-13 17:36:33  
Local clock offset: 3.706 ms  
Remote clock offset: -4.814 ms

# Below is generated by plot.py at 2018-02-14 00:48:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 384.31 Mbit/s  
95th percentile per-packet one-way delay: 1.370 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 212.19 Mbit/s  
95th percentile per-packet one-way delay: 1.278 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 192.11 Mbit/s  
95th percentile per-packet one-way delay: 1.277 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 133.84 Mbit/s  
95th percentile per-packet one-way delay: 2.047 ms  
Loss rate: 0.08%

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

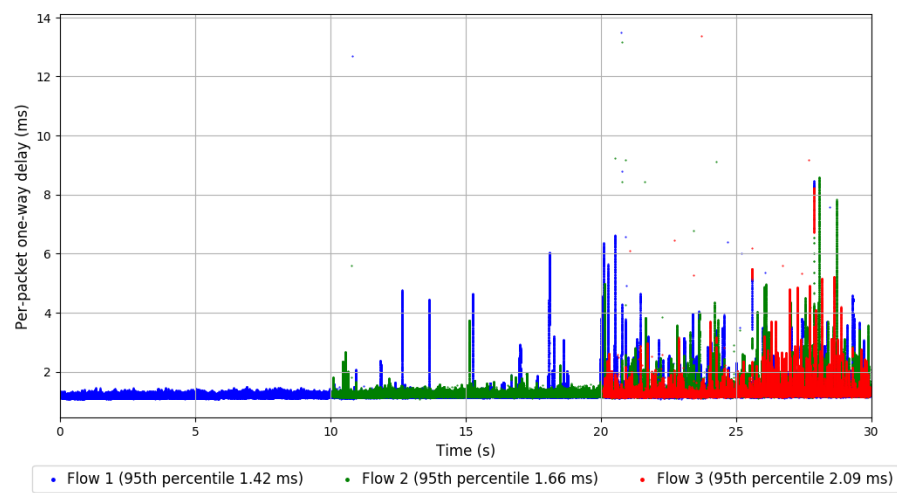
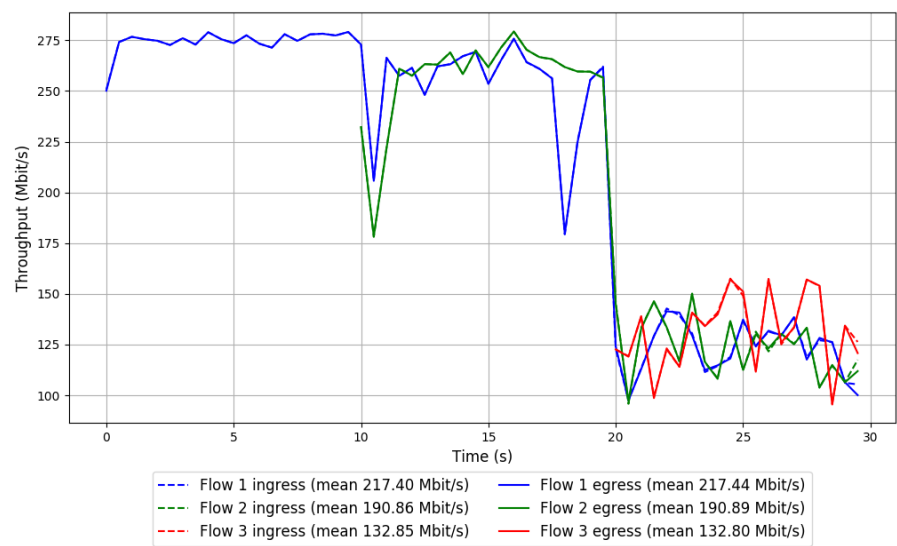


Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 18:05:16  
End at: 2018-02-13 18:05:47  
Local clock offset: 0.532 ms  
Remote clock offset: -5.273 ms

# Below is generated by plot.py at 2018-02-14 00:48:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 388.30 Mbit/s  
95th percentile per-packet one-way delay: 1.601 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 217.44 Mbit/s  
95th percentile per-packet one-way delay: 1.422 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 190.89 Mbit/s  
95th percentile per-packet one-way delay: 1.660 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 132.80 Mbit/s  
95th percentile per-packet one-way delay: 2.087 ms  
Loss rate: 0.23%

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

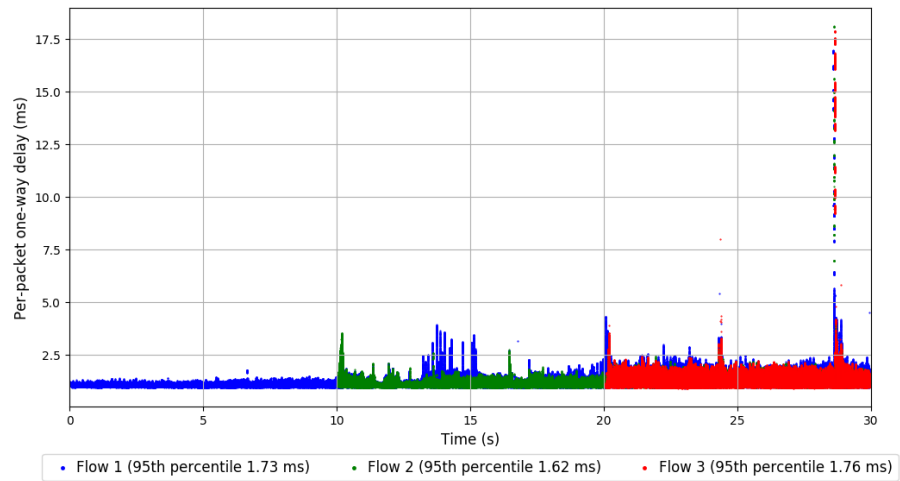
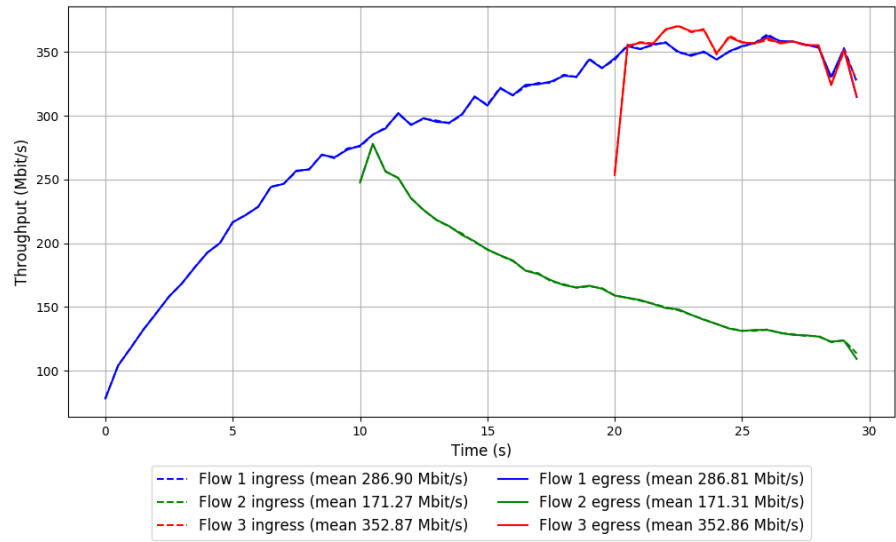


Run 1: Statistics of TCP Vegas

Start at: 2018-02-13 13:32:25  
End at: 2018-02-13 13:32:55  
Local clock offset: -0.012 ms  
Remote clock offset: -6.733 ms

# Below is generated by plot.py at 2018-02-14 00:48:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 517.67 Mbit/s  
95th percentile per-packet one-way delay: 1.718 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 286.81 Mbit/s  
95th percentile per-packet one-way delay: 1.728 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 171.31 Mbit/s  
95th percentile per-packet one-way delay: 1.622 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 352.86 Mbit/s  
95th percentile per-packet one-way delay: 1.756 ms  
Loss rate: 0.19%

# Run 1: Report of TCP Vegas — Data Link

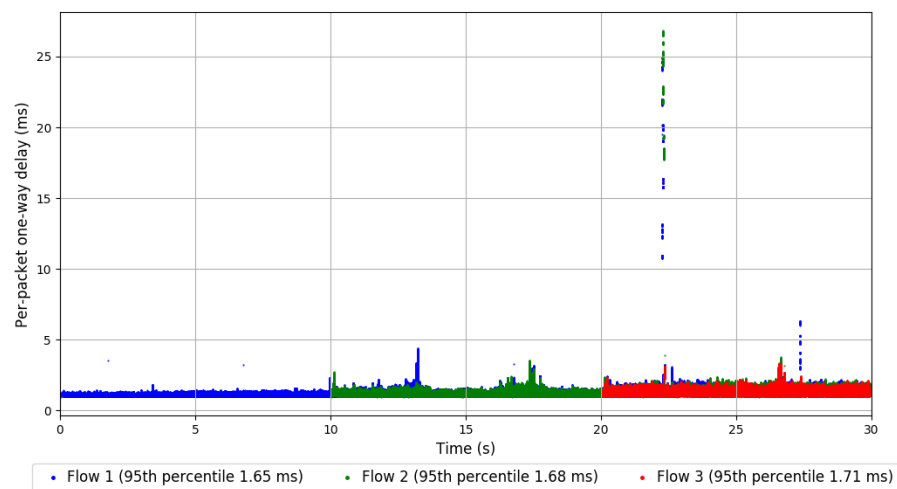
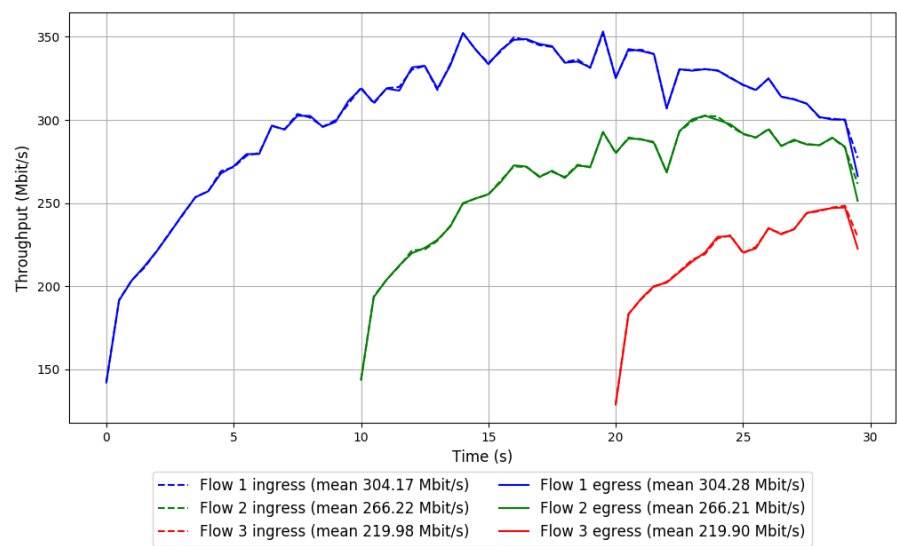


Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 14:01:25  
End at: 2018-02-13 14:01:55  
Local clock offset: 0.084 ms  
Remote clock offset: -5.844 ms

# Below is generated by plot.py at 2018-02-14 00:48:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 554.26 Mbit/s  
95th percentile per-packet one-way delay: 1.669 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 304.28 Mbit/s  
95th percentile per-packet one-way delay: 1.646 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 266.21 Mbit/s  
95th percentile per-packet one-way delay: 1.680 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 219.90 Mbit/s  
95th percentile per-packet one-way delay: 1.712 ms  
Loss rate: 0.20%

Run 2: Report of TCP Vegas — Data Link

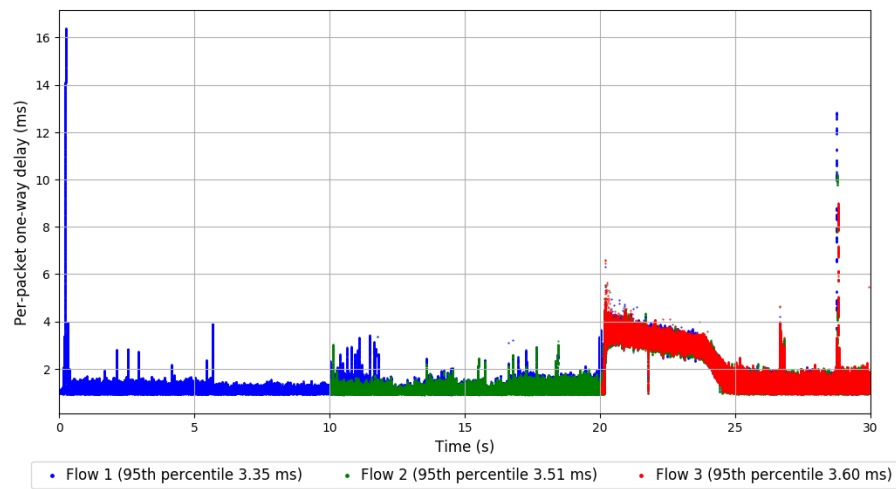
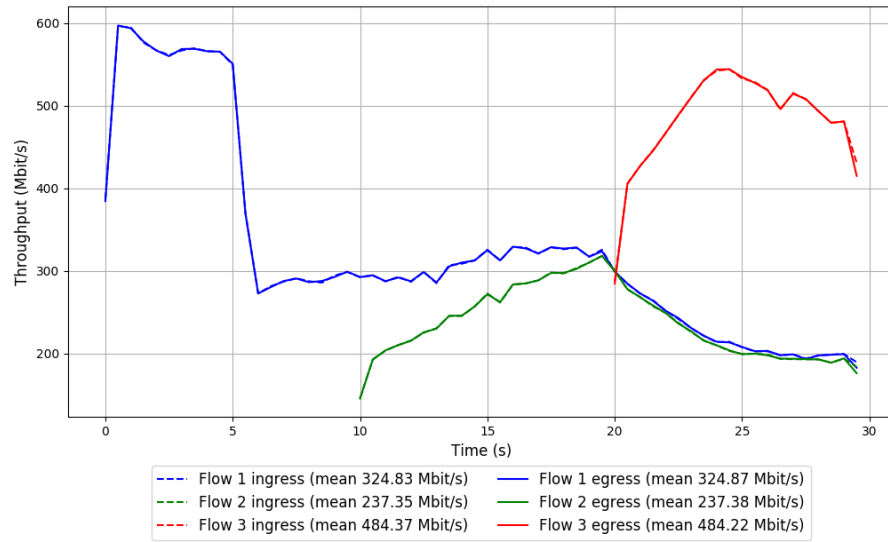


Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 14:30:24  
End at: 2018-02-13 14:30:54  
Local clock offset: 0.293 ms  
Remote clock offset: -5.108 ms

# Below is generated by plot.py at 2018-02-14 00:48:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 643.44 Mbit/s  
95th percentile per-packet one-way delay: 3.490 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 324.87 Mbit/s  
95th percentile per-packet one-way delay: 3.352 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 237.38 Mbit/s  
95th percentile per-packet one-way delay: 3.507 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 484.22 Mbit/s  
95th percentile per-packet one-way delay: 3.595 ms  
Loss rate: 0.17%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 14:59:36

End at: 2018-02-13 15:00:06

Local clock offset: 0.436 ms

Remote clock offset: -5.42 ms

# Below is generated by plot.py at 2018-02-14 00:48:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 566.50 Mbit/s

95th percentile per-packet one-way delay: 1.685 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 282.69 Mbit/s

95th percentile per-packet one-way delay: 1.586 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 266.27 Mbit/s

95th percentile per-packet one-way delay: 1.698 ms

Loss rate: 0.09%

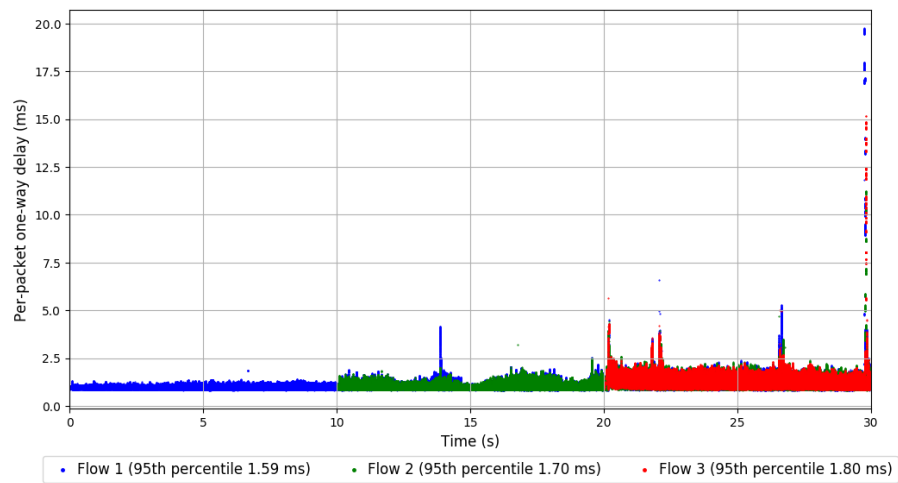
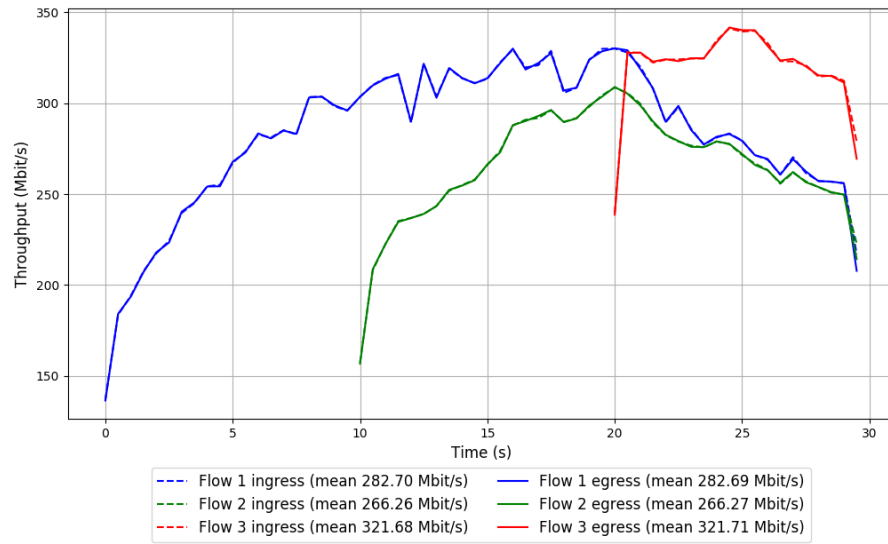
-- Flow 3:

Average throughput: 321.71 Mbit/s

95th percentile per-packet one-way delay: 1.799 ms

Loss rate: 0.17%

# Run 4: Report of TCP Vegas — Data Link

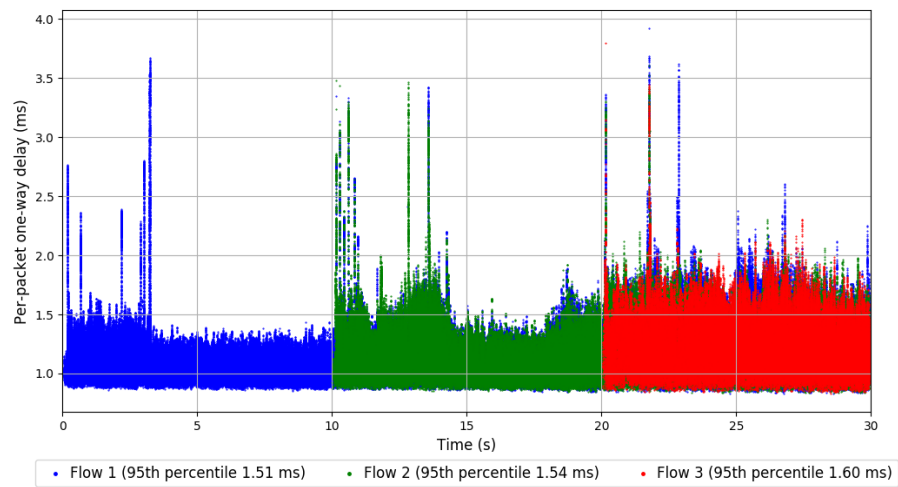
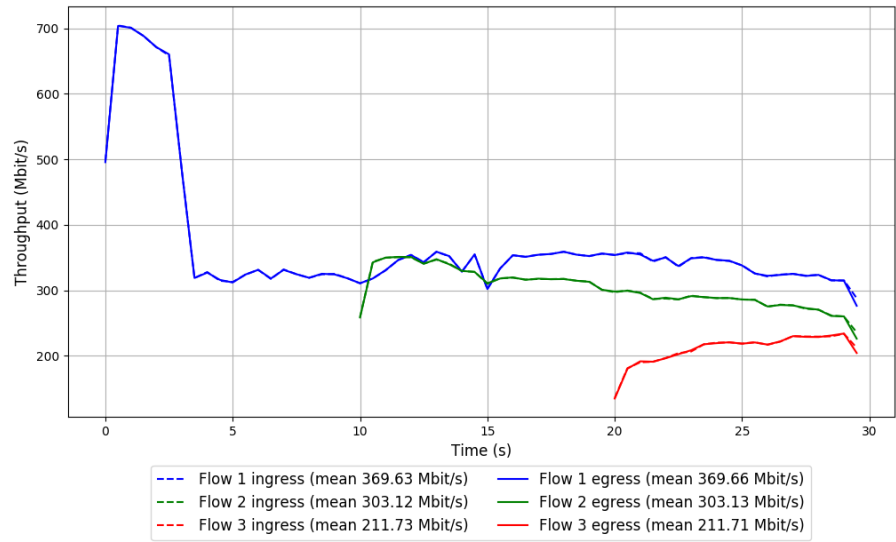


Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 15:28:37  
End at: 2018-02-13 15:29:07  
Local clock offset: 0.253 ms  
Remote clock offset: -6.082 ms

# Below is generated by plot.py at 2018-02-14 00:48:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 641.54 Mbit/s  
95th percentile per-packet one-way delay: 1.535 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 369.66 Mbit/s  
95th percentile per-packet one-way delay: 1.508 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 303.13 Mbit/s  
95th percentile per-packet one-way delay: 1.545 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 211.71 Mbit/s  
95th percentile per-packet one-way delay: 1.597 ms  
Loss rate: 0.19%

# Run 5: Report of TCP Vegas — Data Link

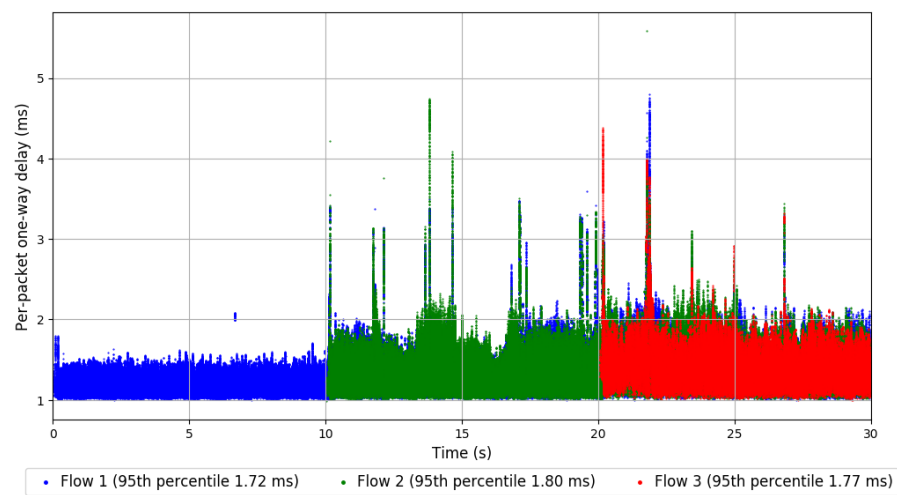
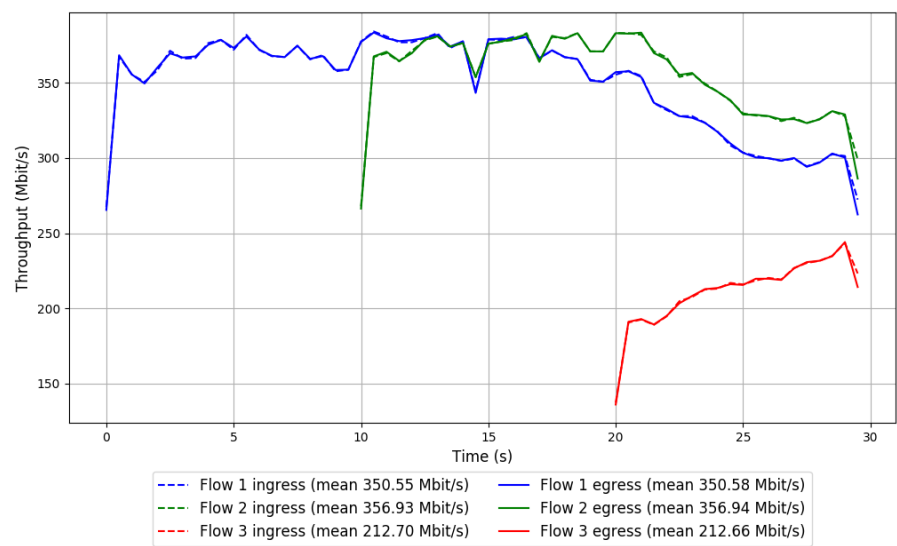


Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 15:57:48  
End at: 2018-02-13 15:58:18  
Local clock offset: -0.173 ms  
Remote clock offset: -7.183 ms

# Below is generated by plot.py at 2018-02-14 00:50:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 658.59 Mbit/s  
95th percentile per-packet one-way delay: 1.759 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 350.58 Mbit/s  
95th percentile per-packet one-way delay: 1.721 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 356.94 Mbit/s  
95th percentile per-packet one-way delay: 1.801 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 212.66 Mbit/s  
95th percentile per-packet one-way delay: 1.772 ms  
Loss rate: 0.21%

Run 6: Report of TCP Vegas — Data Link

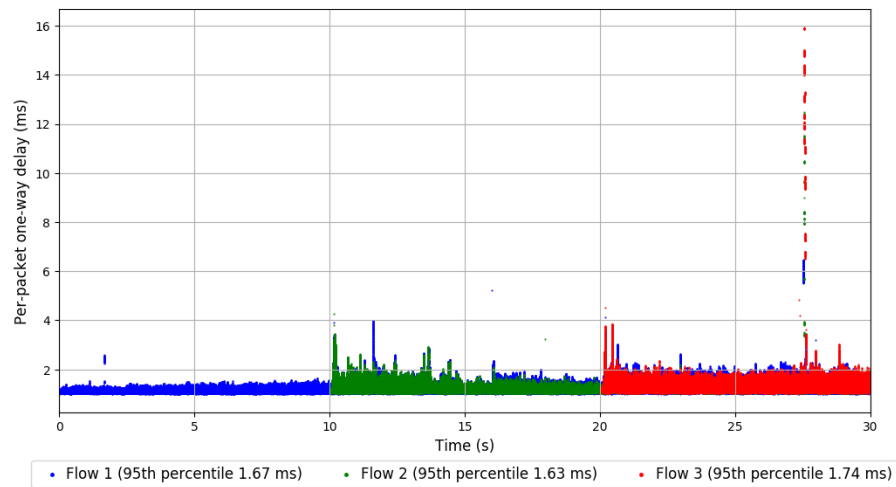
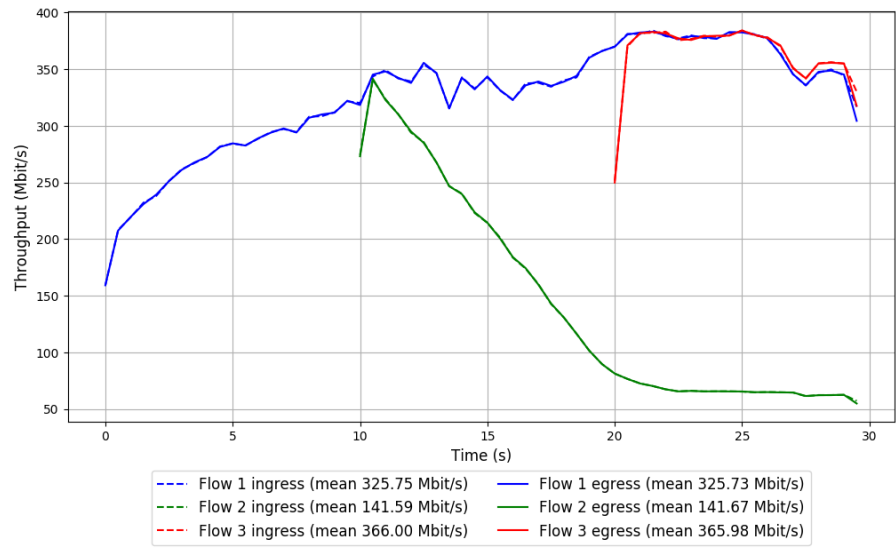


Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 16:26:52  
End at: 2018-02-13 16:27:22  
Local clock offset: -0.383 ms  
Remote clock offset: -7.012 ms

# Below is generated by plot.py at 2018-02-14 00:53:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 541.06 Mbit/s  
95th percentile per-packet one-way delay: 1.684 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 325.73 Mbit/s  
95th percentile per-packet one-way delay: 1.667 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 141.67 Mbit/s  
95th percentile per-packet one-way delay: 1.627 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 365.98 Mbit/s  
95th percentile per-packet one-way delay: 1.742 ms  
Loss rate: 0.19%

# Run 7: Report of TCP Vegas — Data Link

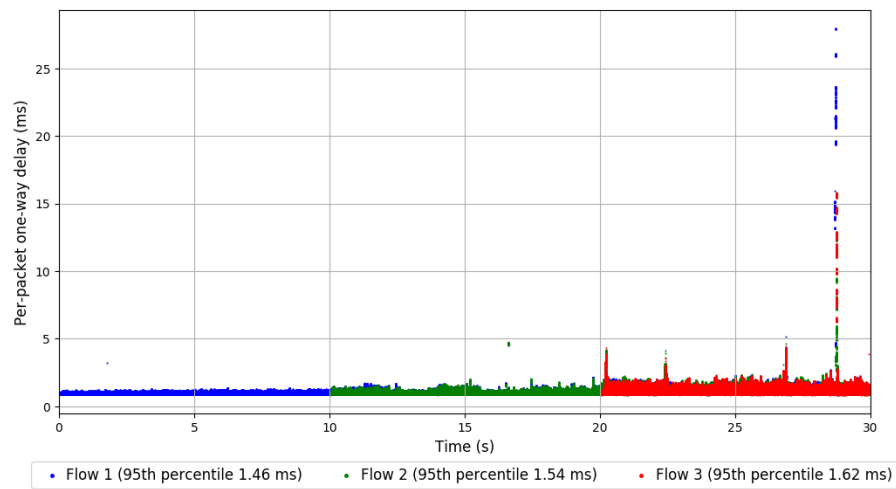
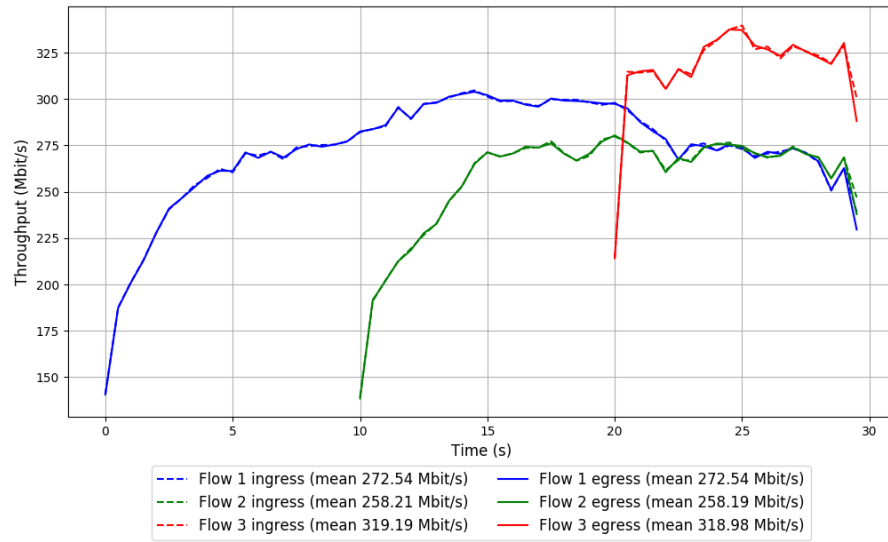


Run 8: Statistics of TCP Vegas

Start at: 2018-02-13 16:55:56  
End at: 2018-02-13 16:56:26  
Local clock offset: 1.6 ms  
Remote clock offset: -4.725 ms

# Below is generated by plot.py at 2018-02-14 00:54:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 549.83 Mbit/s  
95th percentile per-packet one-way delay: 1.527 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 272.54 Mbit/s  
95th percentile per-packet one-way delay: 1.462 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 258.19 Mbit/s  
95th percentile per-packet one-way delay: 1.544 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 318.98 Mbit/s  
95th percentile per-packet one-way delay: 1.625 ms  
Loss rate: 0.20%

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

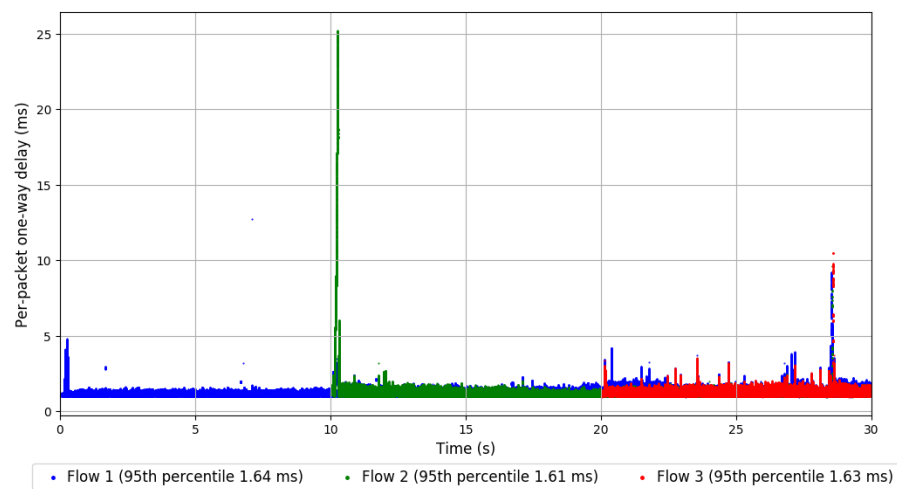
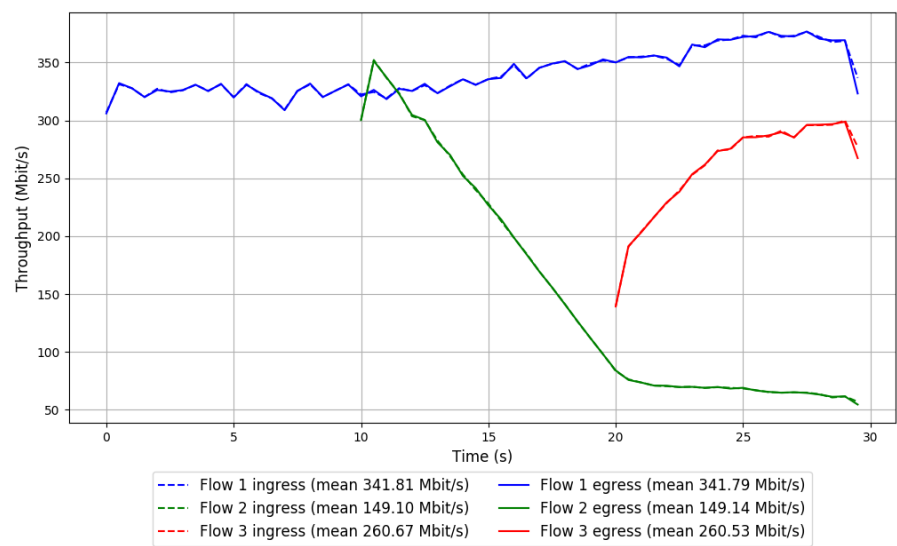


Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 17:24:51  
End at: 2018-02-13 17:25:21  
Local clock offset: 3.306 ms  
Remote clock offset: -4.979 ms

# Below is generated by plot.py at 2018-02-14 00:54:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 527.38 Mbit/s  
95th percentile per-packet one-way delay: 1.633 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 341.79 Mbit/s  
95th percentile per-packet one-way delay: 1.640 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 149.14 Mbit/s  
95th percentile per-packet one-way delay: 1.610 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 260.53 Mbit/s  
95th percentile per-packet one-way delay: 1.628 ms  
Loss rate: 0.21%

Run 9: Report of TCP Vegas — Data Link

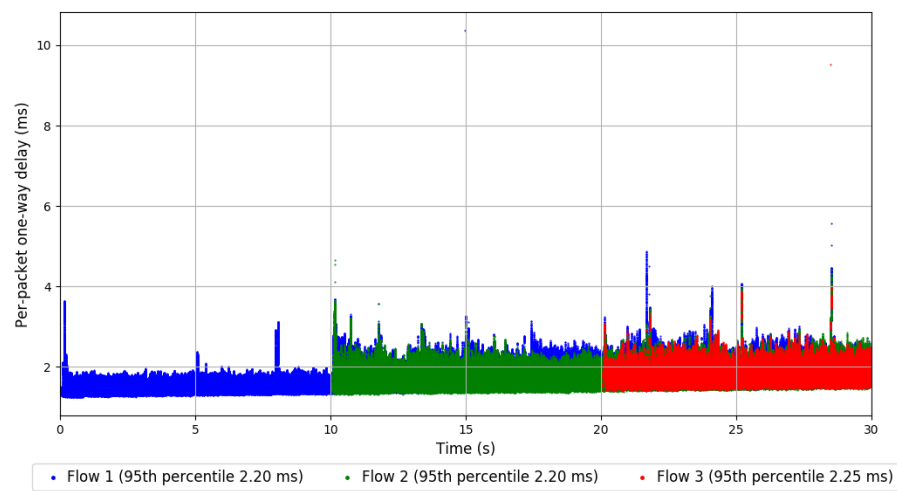
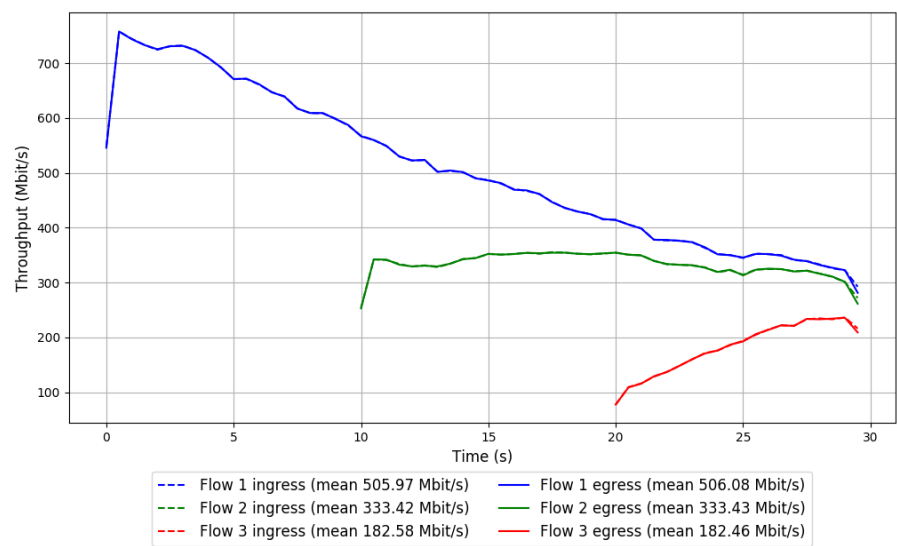


Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 17:53:52  
End at: 2018-02-13 17:54:23  
Local clock offset: 3.901 ms  
Remote clock offset: -5.162 ms

# Below is generated by plot.py at 2018-02-14 00:59:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 788.41 Mbit/s  
95th percentile per-packet one-way delay: 2.205 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 506.08 Mbit/s  
95th percentile per-packet one-way delay: 2.200 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 333.43 Mbit/s  
95th percentile per-packet one-way delay: 2.202 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 182.46 Mbit/s  
95th percentile per-packet one-way delay: 2.248 ms  
Loss rate: 0.24%

Run 10: Report of TCP Vegas — Data Link

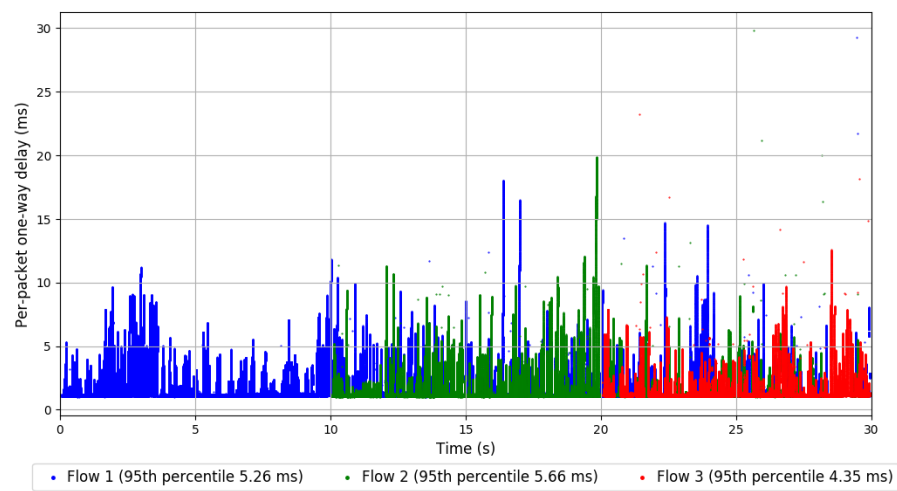
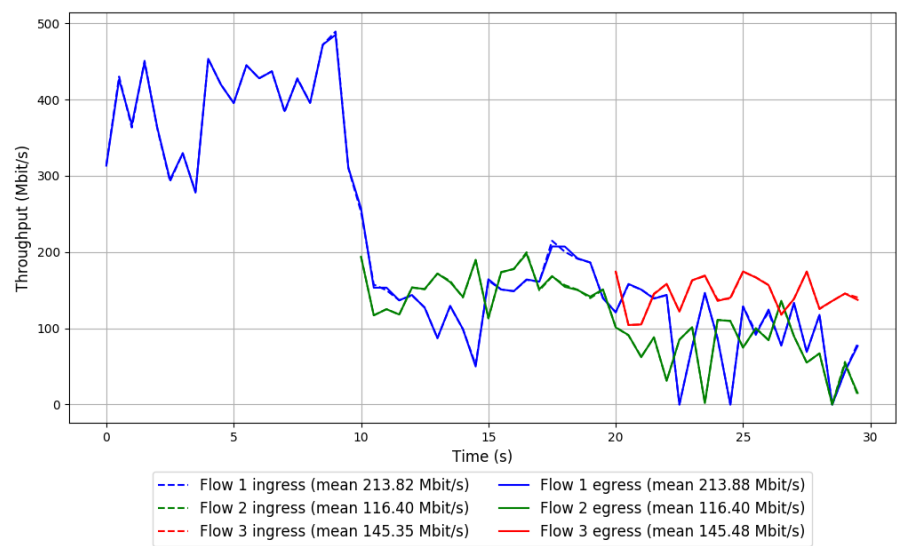


Run 1: Statistics of Verus

Start at: 2018-02-13 13:45:22  
End at: 2018-02-13 13:45:52  
Local clock offset: -0.045 ms  
Remote clock offset: -6.617 ms

# Below is generated by plot.py at 2018-02-14 00:59:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 338.18 Mbit/s  
95th percentile per-packet one-way delay: 5.213 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 213.88 Mbit/s  
95th percentile per-packet one-way delay: 5.265 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 116.40 Mbit/s  
95th percentile per-packet one-way delay: 5.658 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 145.48 Mbit/s  
95th percentile per-packet one-way delay: 4.349 ms  
Loss rate: 0.11%

Run 1: Report of Verus — Data Link

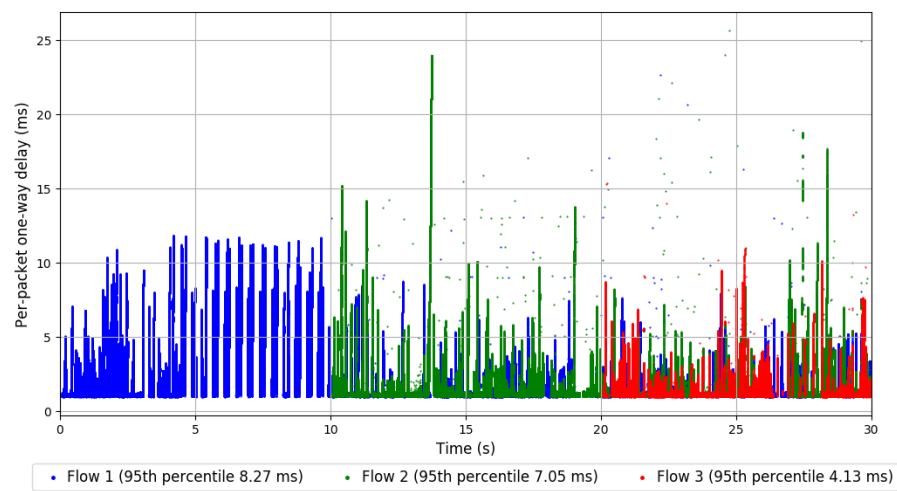
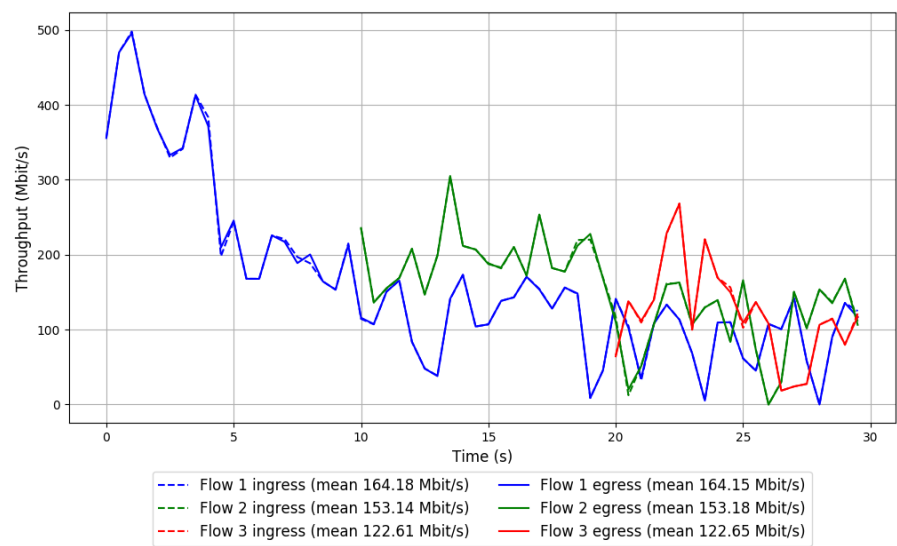


Run 2: Statistics of Verus

Start at: 2018-02-13 14:14:28  
End at: 2018-02-13 14:14:58  
Local clock offset: 0.173 ms  
Remote clock offset: -5.502 ms

# Below is generated by plot.py at 2018-02-14 00:59:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 306.73 Mbit/s  
95th percentile per-packet one-way delay: 7.664 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 164.15 Mbit/s  
95th percentile per-packet one-way delay: 8.268 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 153.18 Mbit/s  
95th percentile per-packet one-way delay: 7.052 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 122.65 Mbit/s  
95th percentile per-packet one-way delay: 4.128 ms  
Loss rate: 0.17%

Run 2: Report of Verus — Data Link

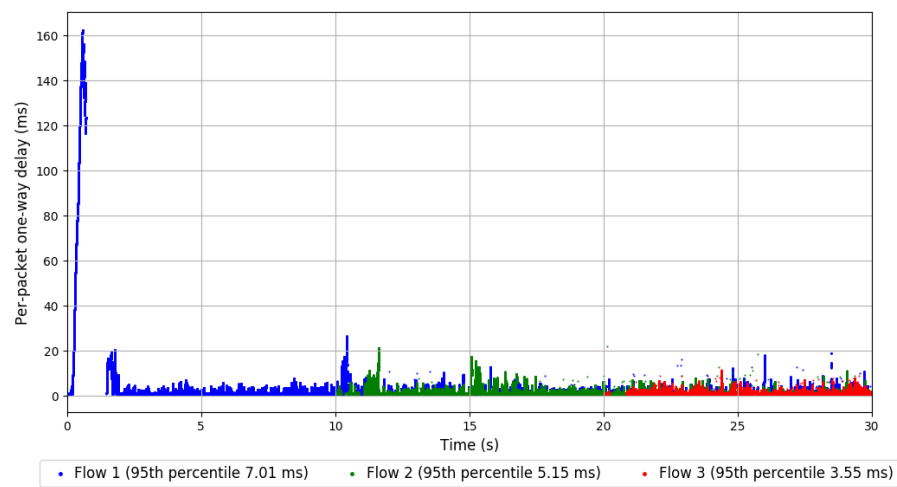
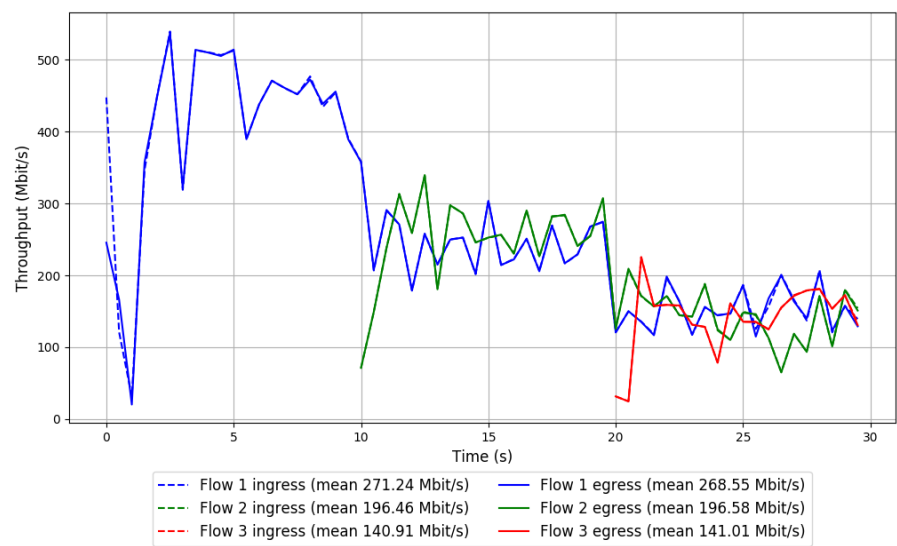


Run 3: Statistics of Verus

Start at: 2018-02-13 14:43:27  
End at: 2018-02-13 14:43:58  
Local clock offset: 0.384 ms  
Remote clock offset: -4.932 ms

# Below is generated by plot.py at 2018-02-14 00:59:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 446.03 Mbit/s  
95th percentile per-packet one-way delay: 5.723 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 268.55 Mbit/s  
95th percentile per-packet one-way delay: 7.006 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 196.58 Mbit/s  
95th percentile per-packet one-way delay: 5.154 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 141.01 Mbit/s  
95th percentile per-packet one-way delay: 3.550 ms  
Loss rate: 0.12%

Run 3: Report of Verus — Data Link

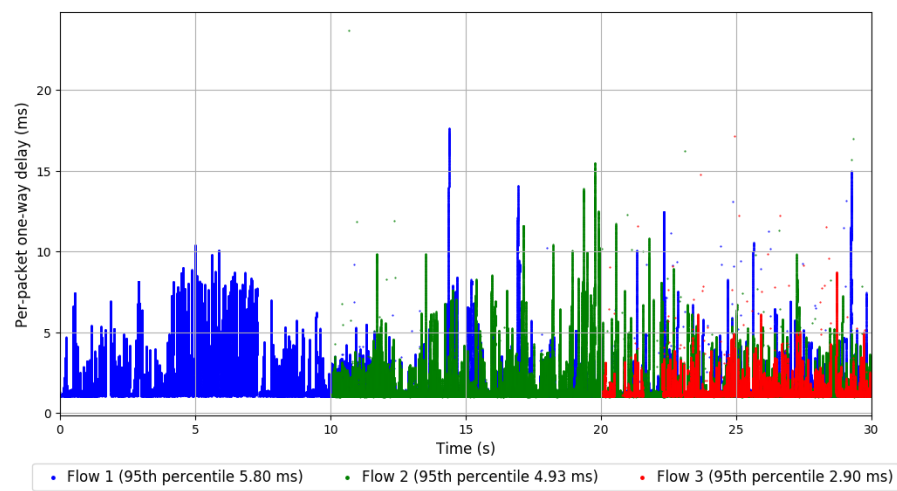
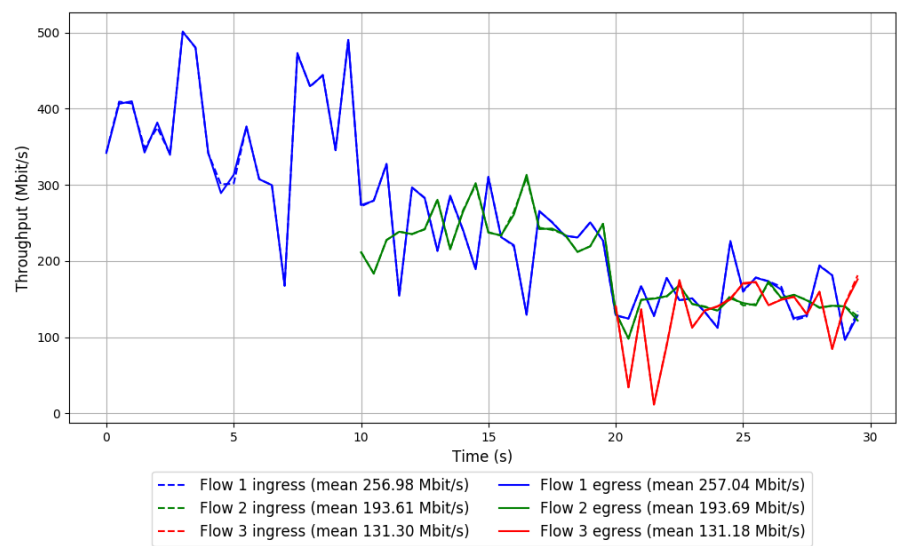


Run 4: Statistics of Verus

Start at: 2018-02-13 15:12:39  
End at: 2018-02-13 15:13:09  
Local clock offset: 0.372 ms  
Remote clock offset: -5.798 ms

# Below is generated by plot.py at 2018-02-14 00:59:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 429.40 Mbit/s  
95th percentile per-packet one-way delay: 5.295 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 257.04 Mbit/s  
95th percentile per-packet one-way delay: 5.805 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 193.69 Mbit/s  
95th percentile per-packet one-way delay: 4.928 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 131.18 Mbit/s  
95th percentile per-packet one-way delay: 2.905 ms  
Loss rate: 0.25%

Run 4: Report of Verus — Data Link

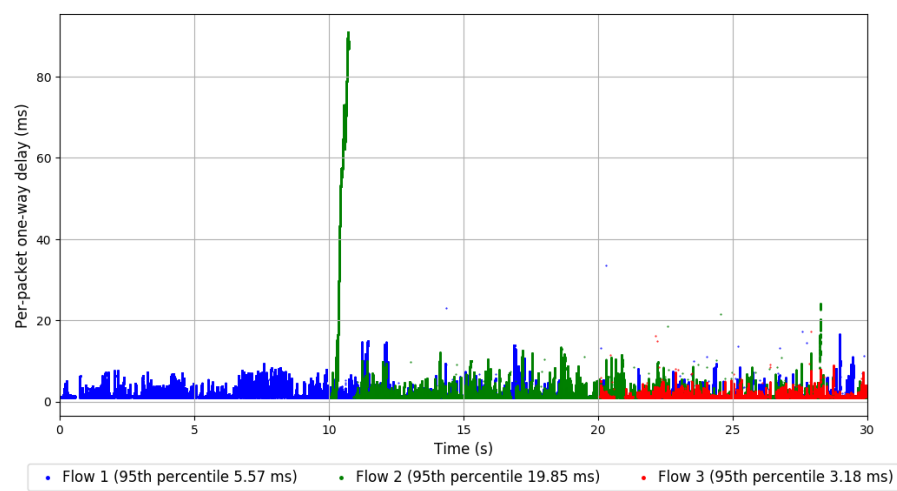
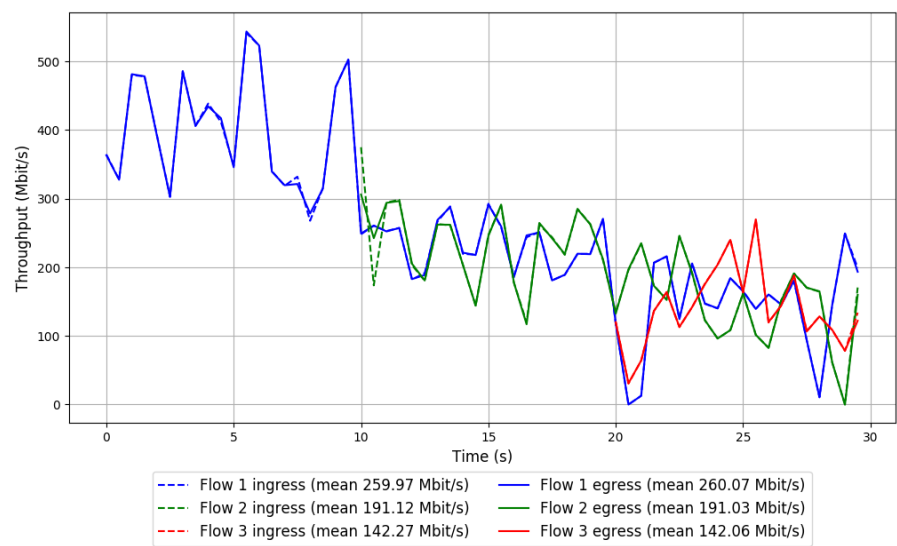


Run 5: Statistics of Verus

Start at: 2018-02-13 15:41:42  
End at: 2018-02-13 15:42:12  
Local clock offset: 0.076 ms  
Remote clock offset: -6.859 ms

```
# Below is generated by plot.py at 2018-02-14 00:59:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.26 Mbit/s
95th percentile per-packet one-way delay: 6.244 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 260.07 Mbit/s
95th percentile per-packet one-way delay: 5.566 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 191.03 Mbit/s
95th percentile per-packet one-way delay: 19.852 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 142.06 Mbit/s
95th percentile per-packet one-way delay: 3.182 ms
Loss rate: 0.42%
```

Run 5: Report of Verus — Data Link

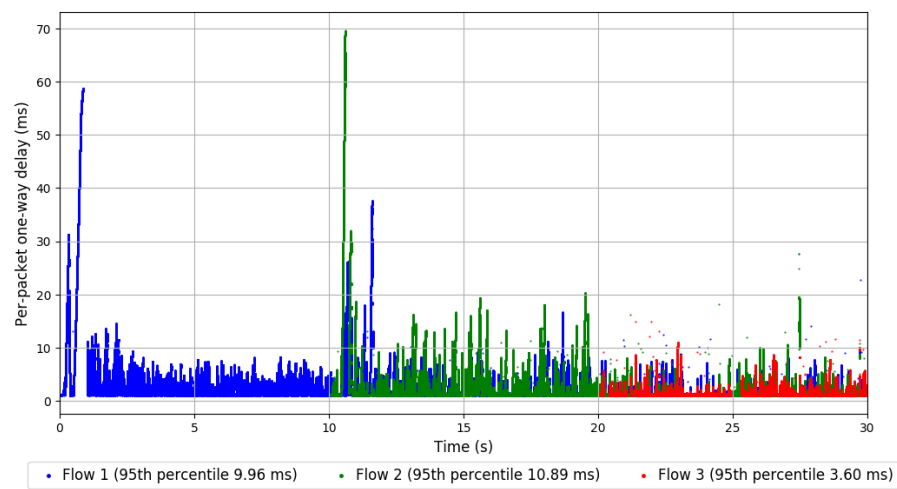
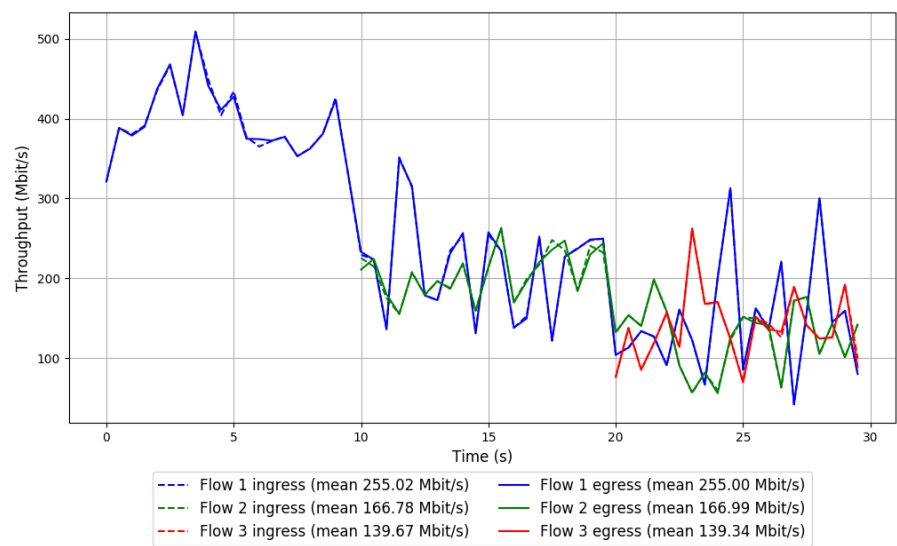


Run 6: Statistics of Verus

Start at: 2018-02-13 16:10:49  
End at: 2018-02-13 16:11:19  
Local clock offset: -0.255 ms  
Remote clock offset: -6.941 ms

# Below is generated by plot.py at 2018-02-14 00:59:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 410.80 Mbit/s  
95th percentile per-packet one-way delay: 9.356 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 255.00 Mbit/s  
95th percentile per-packet one-way delay: 9.955 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 166.99 Mbit/s  
95th percentile per-packet one-way delay: 10.887 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 139.34 Mbit/s  
95th percentile per-packet one-way delay: 3.596 ms  
Loss rate: 0.42%

Run 6: Report of Verus — Data Link

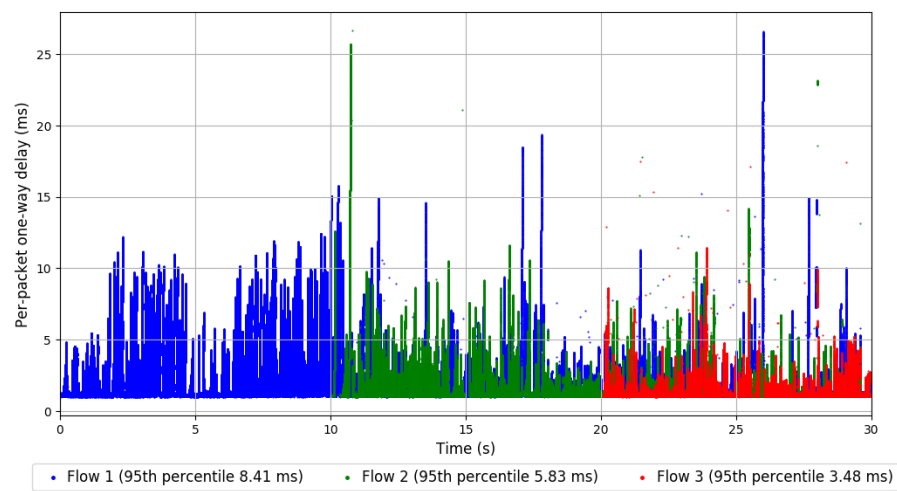
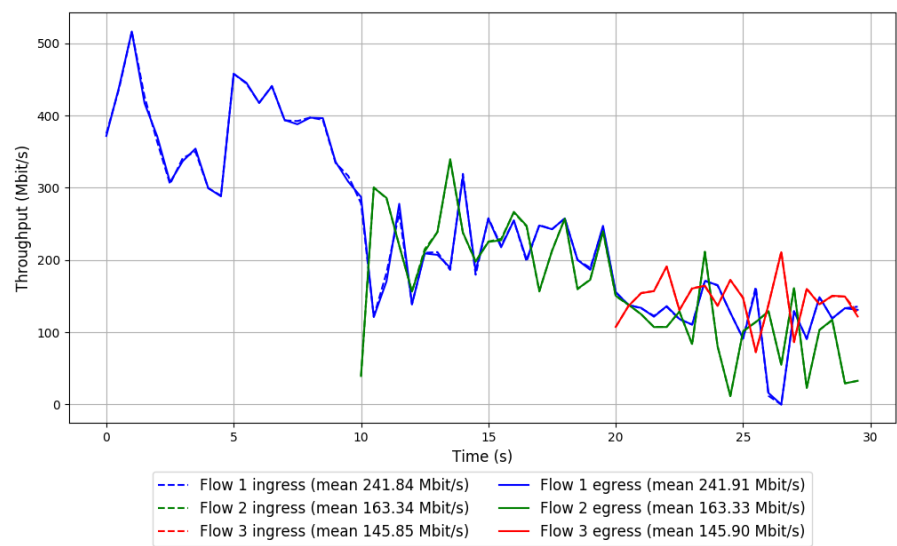


Run 7: Statistics of Verus

Start at: 2018-02-13 16:39:54  
End at: 2018-02-13 16:40:24  
Local clock offset: -0.595 ms  
Remote clock offset: -6.097 ms

# Below is generated by plot.py at 2018-02-14 00:59:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 397.06 Mbit/s  
95th percentile per-packet one-way delay: 7.562 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 241.91 Mbit/s  
95th percentile per-packet one-way delay: 8.406 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 163.33 Mbit/s  
95th percentile per-packet one-way delay: 5.833 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 145.90 Mbit/s  
95th percentile per-packet one-way delay: 3.478 ms  
Loss rate: 0.17%

Run 7: Report of Verus — Data Link

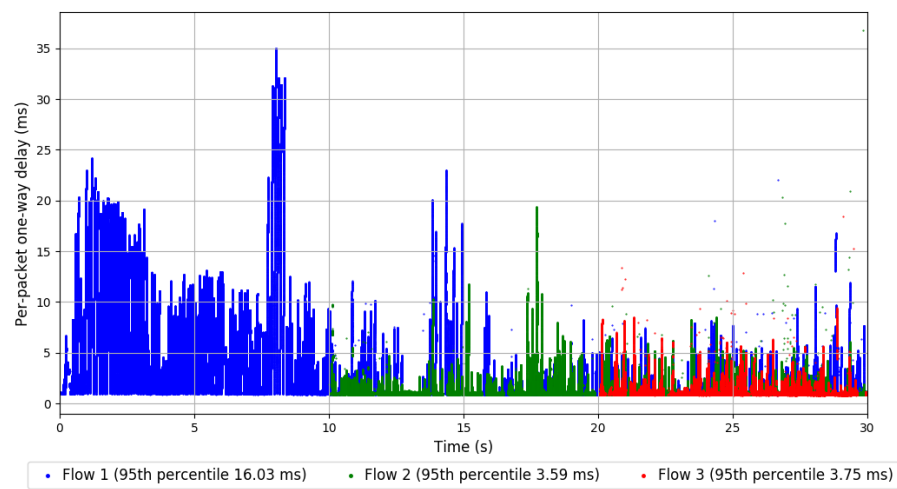
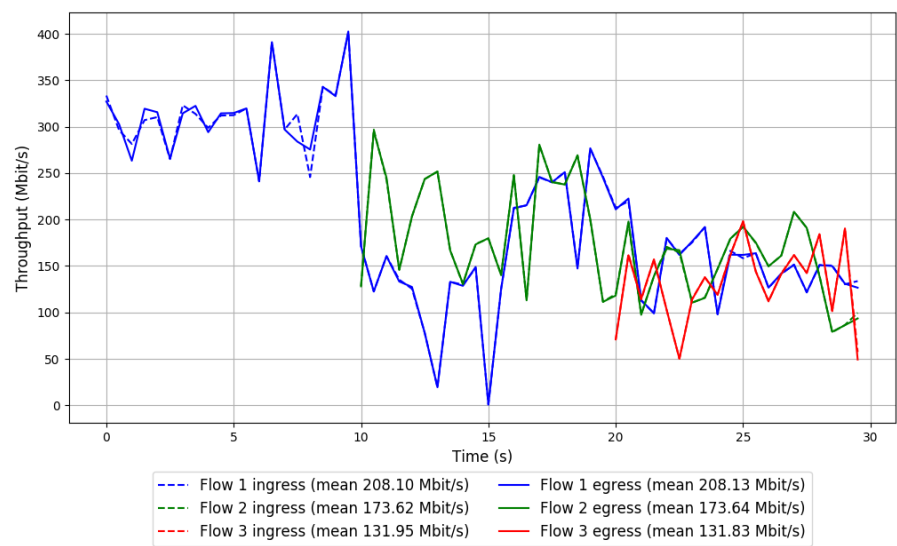


Run 8: Statistics of Verus

Start at: 2018-02-13 17:08:48  
End at: 2018-02-13 17:09:18  
Local clock offset: 2.596 ms  
Remote clock offset: -4.103 ms

# Below is generated by plot.py at 2018-02-14 00:59:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 367.33 Mbit/s  
95th percentile per-packet one-way delay: 12.267 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 208.13 Mbit/s  
95th percentile per-packet one-way delay: 16.029 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 173.64 Mbit/s  
95th percentile per-packet one-way delay: 3.593 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 131.83 Mbit/s  
95th percentile per-packet one-way delay: 3.746 ms  
Loss rate: 0.31%

Run 8: Report of Verus — Data Link

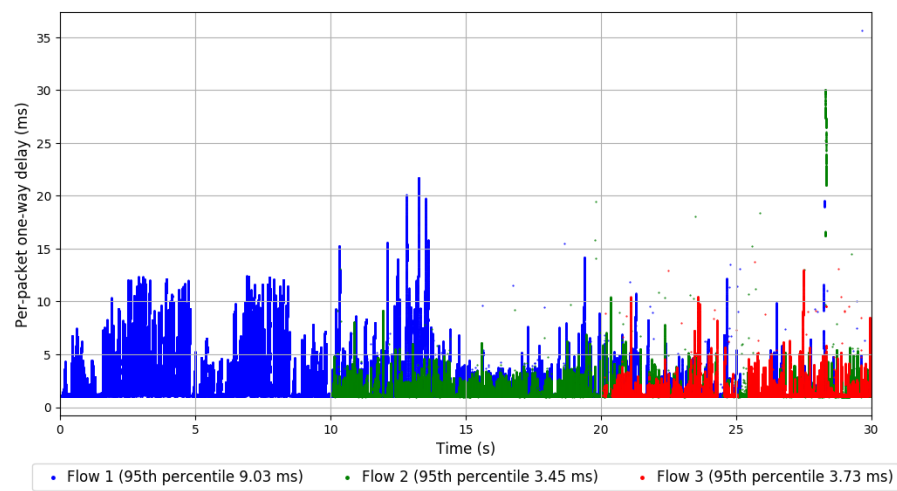
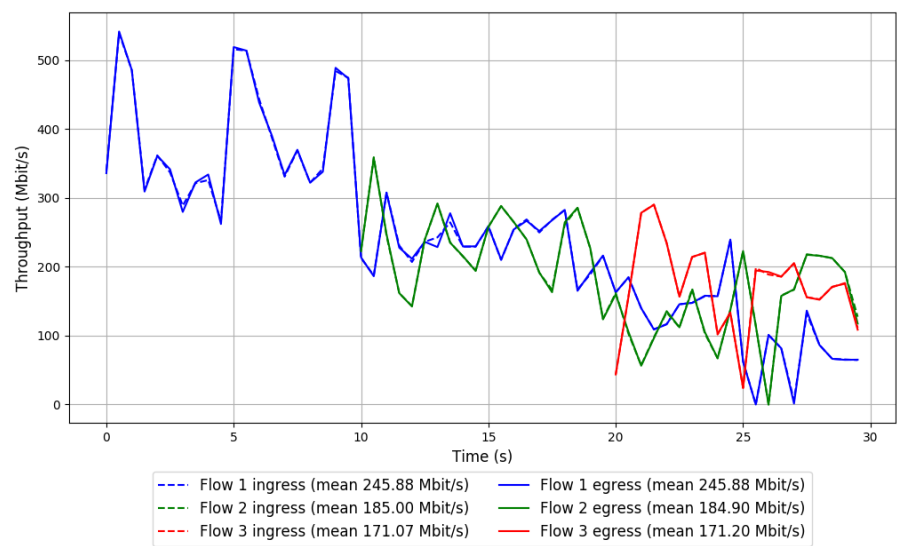


Run 9: Statistics of Verus

Start at: 2018-02-13 17:37:48  
End at: 2018-02-13 17:38:18  
Local clock offset: 3.758 ms  
Remote clock offset: -4.784 ms

# Below is generated by plot.py at 2018-02-14 01:00:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 425.25 Mbit/s  
95th percentile per-packet one-way delay: 7.697 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 245.88 Mbit/s  
95th percentile per-packet one-way delay: 9.034 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 184.90 Mbit/s  
95th percentile per-packet one-way delay: 3.454 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 171.20 Mbit/s  
95th percentile per-packet one-way delay: 3.732 ms  
Loss rate: 0.11%

Run 9: Report of Verus — Data Link

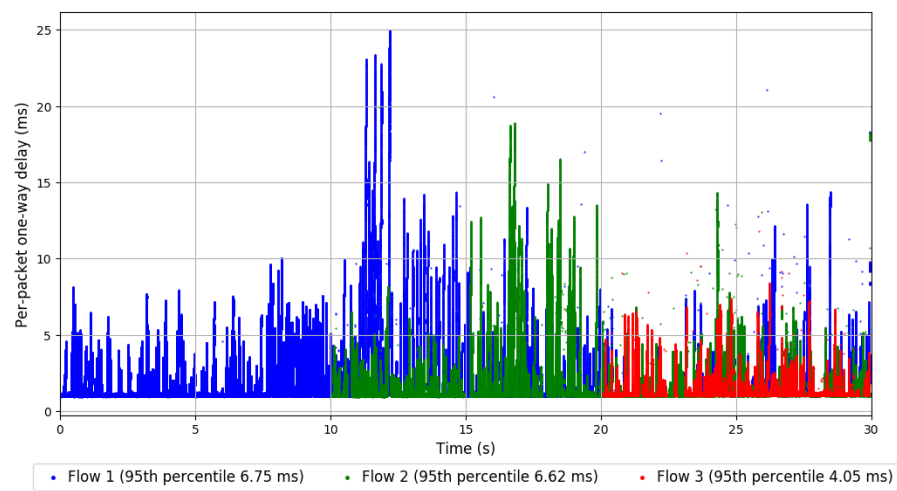
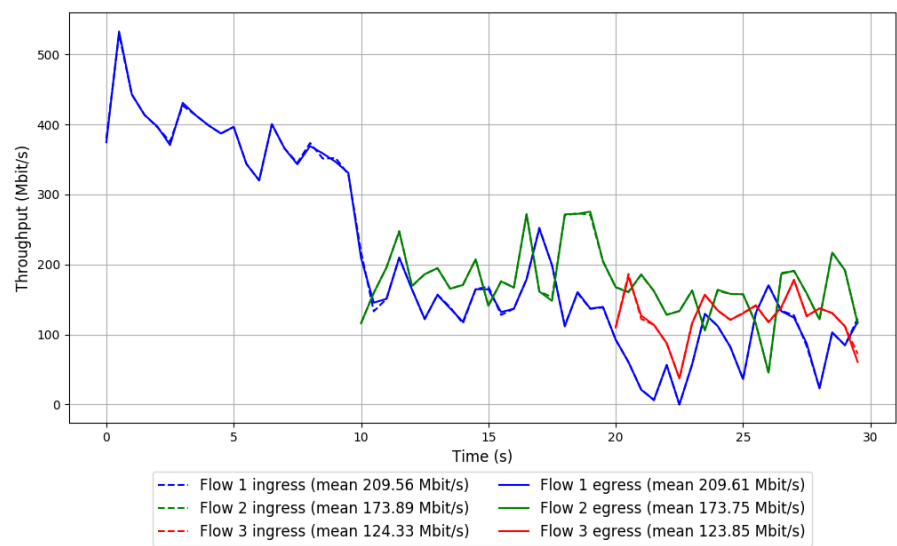


Run 10: Statistics of Verus

Start at: 2018-02-13 18:07:01  
End at: 2018-02-13 18:07:31  
Local clock offset: 0.201 ms  
Remote clock offset: -5.182 ms

# Below is generated by plot.py at 2018-02-14 01:00:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 366.36 Mbit/s  
95th percentile per-packet one-way delay: 6.419 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 209.61 Mbit/s  
95th percentile per-packet one-way delay: 6.751 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 173.75 Mbit/s  
95th percentile per-packet one-way delay: 6.619 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 123.85 Mbit/s  
95th percentile per-packet one-way delay: 4.049 ms  
Loss rate: 0.47%

Run 10: Report of Verus — Data Link

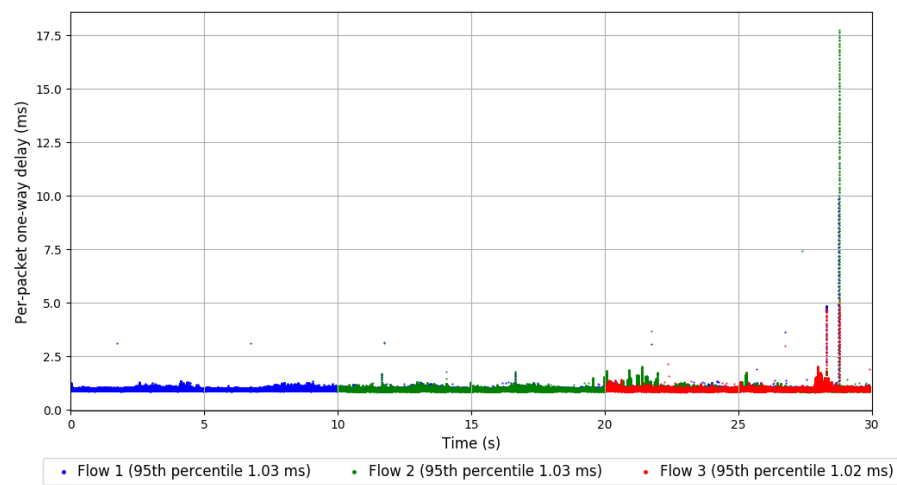
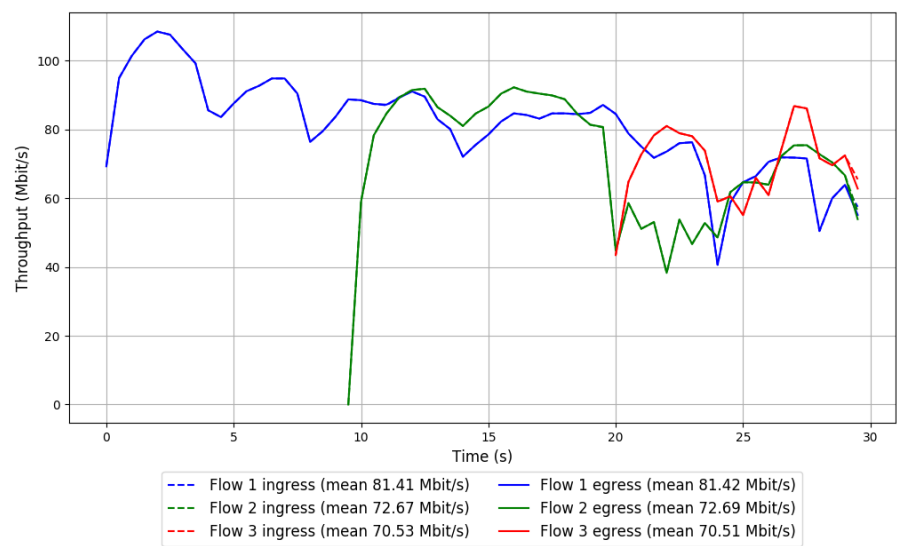


Run 1: Statistics of Copa

Start at: 2018-02-13 13:42:07  
End at: 2018-02-13 13:42:37  
Local clock offset: -0.111 ms  
Remote clock offset: -6.738 ms

# Below is generated by plot.py at 2018-02-14 01:01:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 153.17 Mbit/s  
95th percentile per-packet one-way delay: 1.027 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 81.42 Mbit/s  
95th percentile per-packet one-way delay: 1.027 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 72.69 Mbit/s  
95th percentile per-packet one-way delay: 1.031 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 70.51 Mbit/s  
95th percentile per-packet one-way delay: 1.023 ms  
Loss rate: 0.20%

Run 1: Report of Copa — Data Link

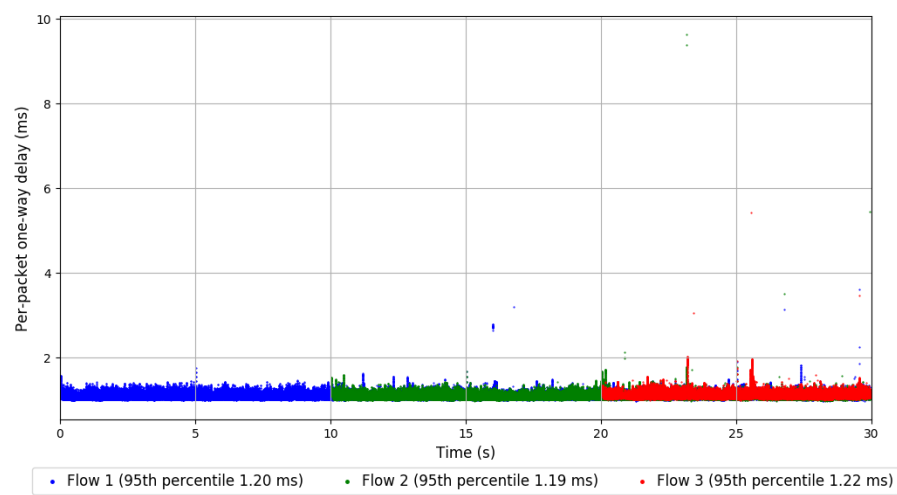
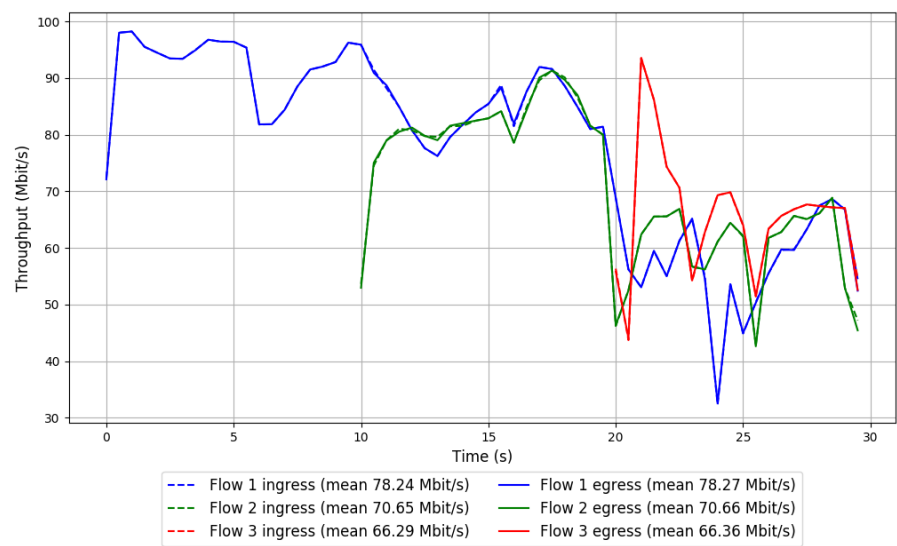


Run 2: Statistics of Copa

Start at: 2018-02-13 14:11:15  
End at: 2018-02-13 14:11:45  
Local clock offset: 0.155 ms  
Remote clock offset: -5.636 ms

# Below is generated by plot.py at 2018-02-14 01:03:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 147.19 Mbit/s  
95th percentile per-packet one-way delay: 1.201 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 78.27 Mbit/s  
95th percentile per-packet one-way delay: 1.197 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 70.66 Mbit/s  
95th percentile per-packet one-way delay: 1.193 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 66.36 Mbit/s  
95th percentile per-packet one-way delay: 1.224 ms  
Loss rate: 0.17%

Run 2: Report of Copa — Data Link

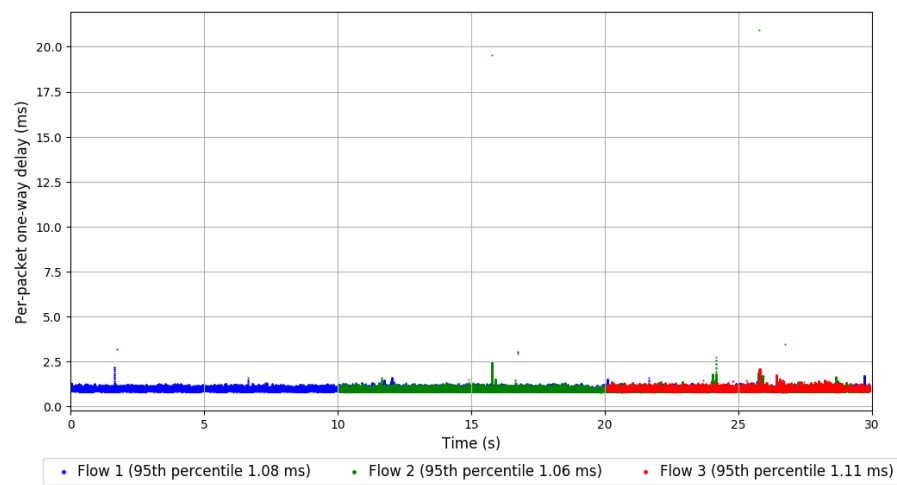
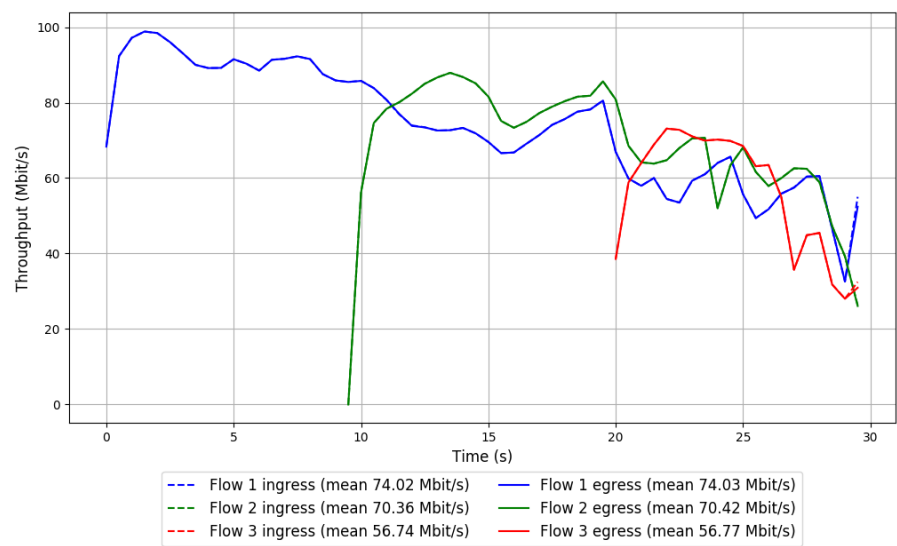


Run 3: Statistics of Copa

Start at: 2018-02-13 14:40:15  
End at: 2018-02-13 14:40:45  
Local clock offset: 0.28 ms  
Remote clock offset: -4.946 ms

# Below is generated by plot.py at 2018-02-14 01:03:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 139.71 Mbit/s  
95th percentile per-packet one-way delay: 1.079 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 74.03 Mbit/s  
95th percentile per-packet one-way delay: 1.077 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 70.42 Mbit/s  
95th percentile per-packet one-way delay: 1.065 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 56.77 Mbit/s  
95th percentile per-packet one-way delay: 1.110 ms  
Loss rate: 0.14%

Run 3: Report of Copa — Data Link

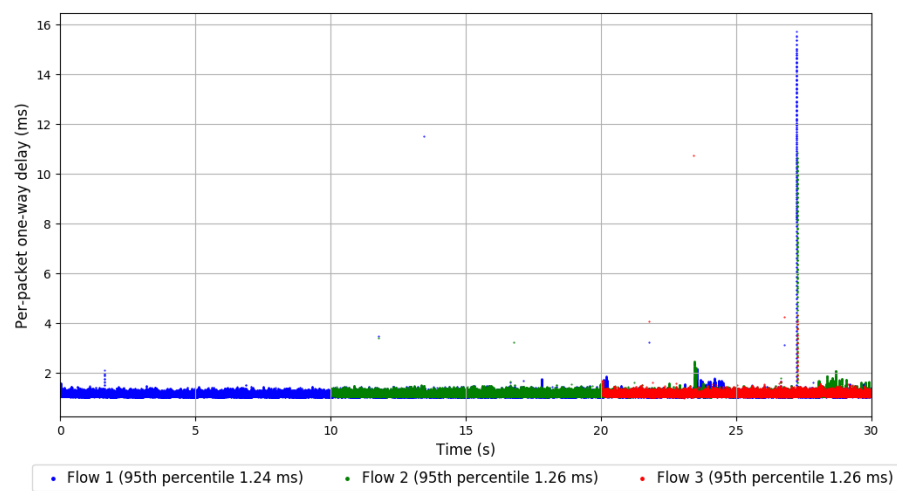
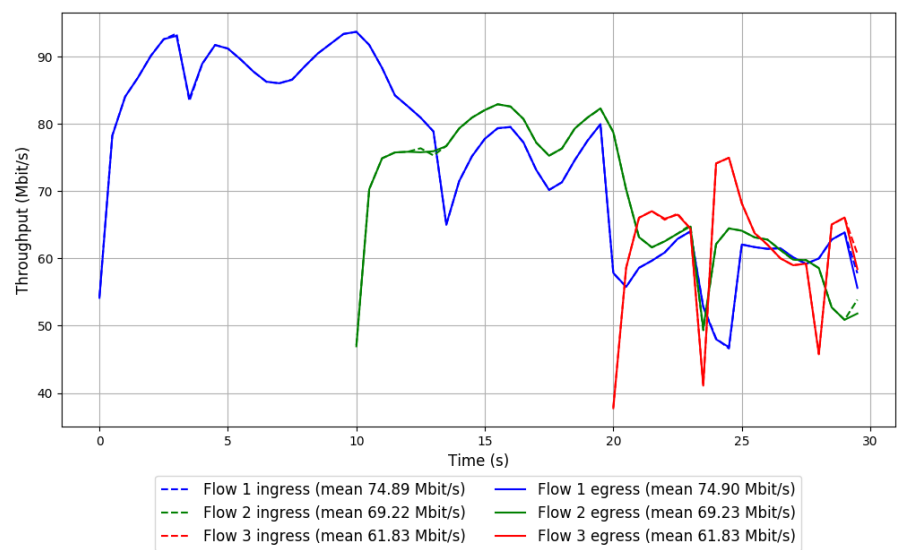


Run 4: Statistics of Copa

Start at: 2018-02-13 15:09:27  
End at: 2018-02-13 15:09:57  
Local clock offset: 0.393 ms  
Remote clock offset: -5.772 ms

# Below is generated by plot.py at 2018-02-14 01:03:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 141.41 Mbit/s  
95th percentile per-packet one-way delay: 1.250 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 74.90 Mbit/s  
95th percentile per-packet one-way delay: 1.235 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 69.23 Mbit/s  
95th percentile per-packet one-way delay: 1.265 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 61.83 Mbit/s  
95th percentile per-packet one-way delay: 1.258 ms  
Loss rate: 0.20%

Run 4: Report of Copa — Data Link

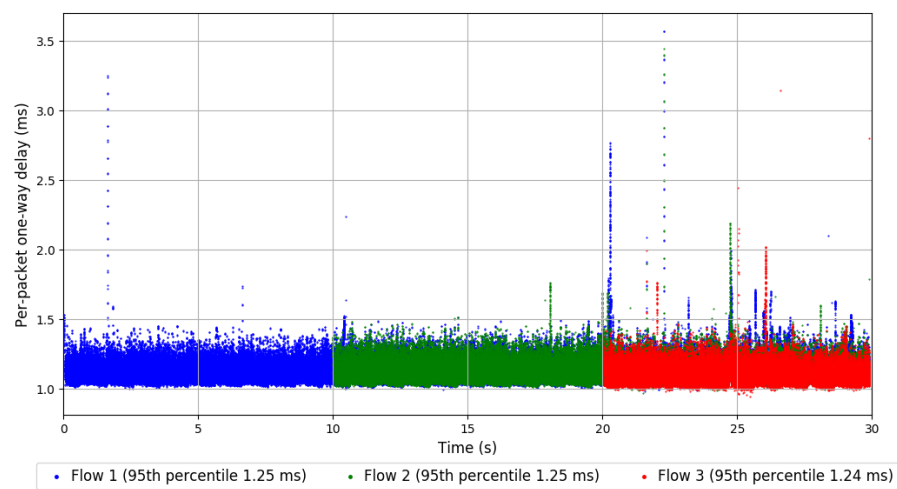
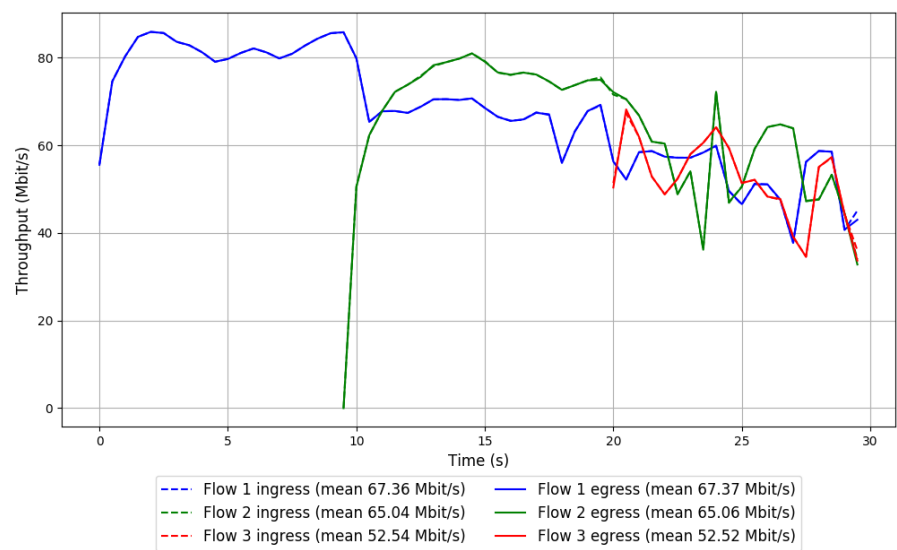


Run 5: Statistics of Copa

Start at: 2018-02-13 15:38:29  
End at: 2018-02-13 15:38:59  
Local clock offset: 0.169 ms  
Remote clock offset: -6.776 ms

# Below is generated by plot.py at 2018-02-14 01:03:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 128.10 Mbit/s  
95th percentile per-packet one-way delay: 1.252 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 67.37 Mbit/s  
95th percentile per-packet one-way delay: 1.255 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 65.06 Mbit/s  
95th percentile per-packet one-way delay: 1.254 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 52.52 Mbit/s  
95th percentile per-packet one-way delay: 1.237 ms  
Loss rate: 0.22%

Run 5: Report of Copa — Data Link

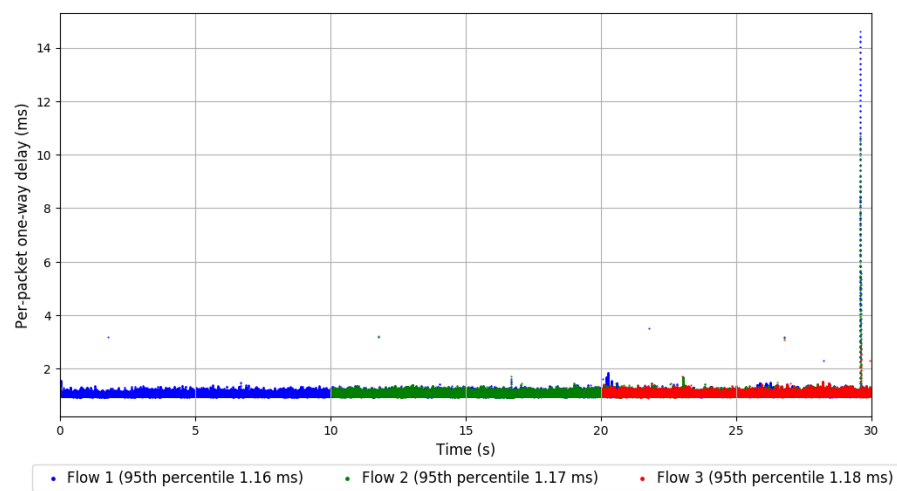
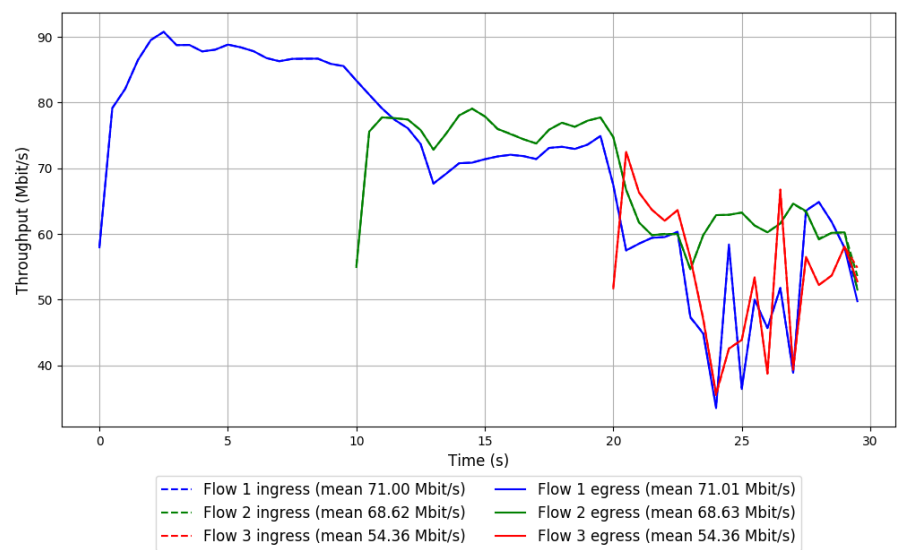


Run 6: Statistics of Copa

Start at: 2018-02-13 16:07:36  
End at: 2018-02-13 16:08:06  
Local clock offset: -0.321 ms  
Remote clock offset: -7.029 ms

# Below is generated by plot.py at 2018-02-14 01:03:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 134.65 Mbit/s  
95th percentile per-packet one-way delay: 1.164 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 71.01 Mbit/s  
95th percentile per-packet one-way delay: 1.159 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 68.63 Mbit/s  
95th percentile per-packet one-way delay: 1.168 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 54.36 Mbit/s  
95th percentile per-packet one-way delay: 1.175 ms  
Loss rate: 0.20%

Run 6: Report of Copa — Data Link

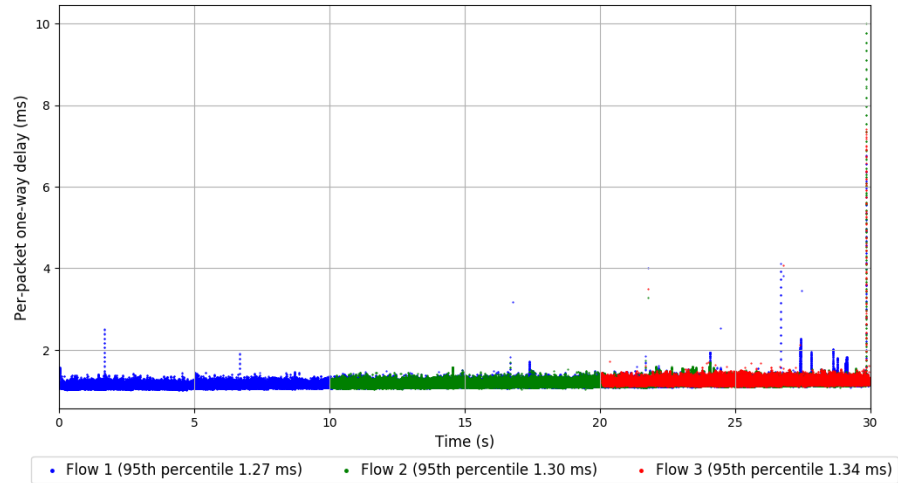
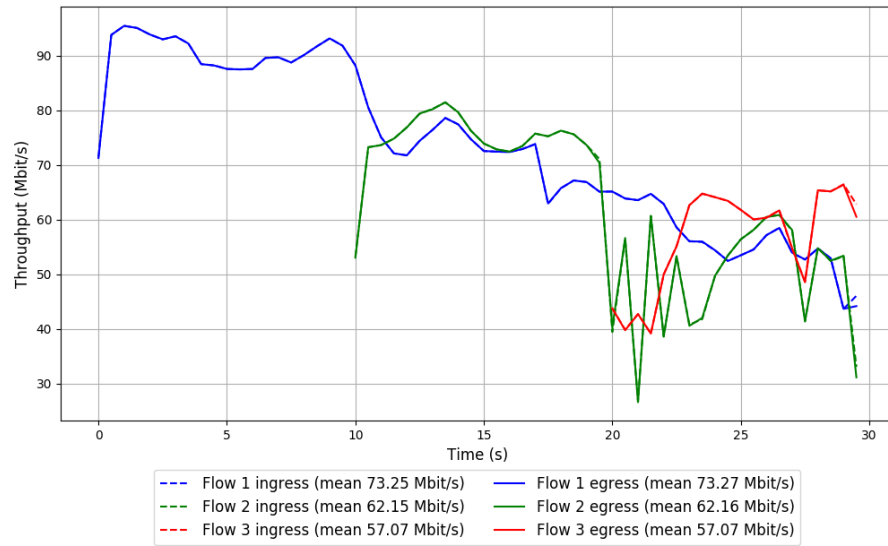


Run 7: Statistics of Copa

Start at: 2018-02-13 16:36:41  
End at: 2018-02-13 16:37:11  
Local clock offset: -0.473 ms  
Remote clock offset: -6.567 ms

# Below is generated by plot.py at 2018-02-14 01:04:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 133.51 Mbit/s  
95th percentile per-packet one-way delay: 1.298 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 73.27 Mbit/s  
95th percentile per-packet one-way delay: 1.274 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 62.16 Mbit/s  
95th percentile per-packet one-way delay: 1.300 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 57.07 Mbit/s  
95th percentile per-packet one-way delay: 1.338 ms  
Loss rate: 0.22%

# Run 7: Report of Copa — Data Link

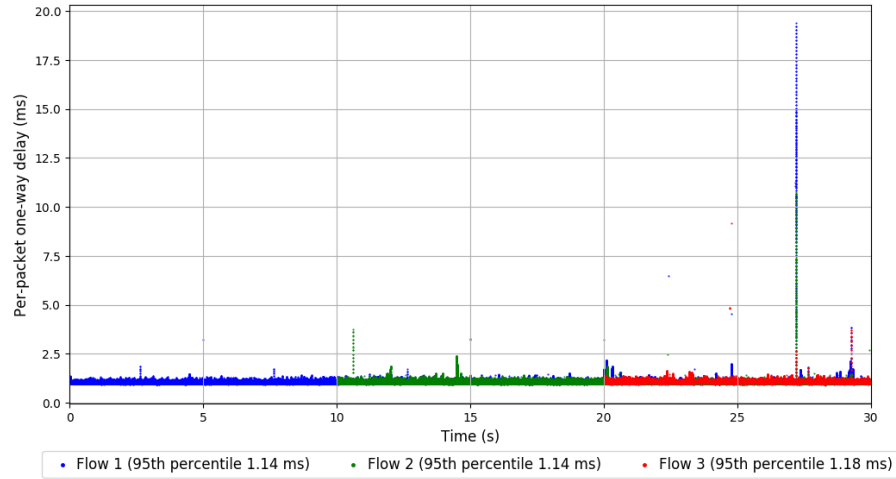
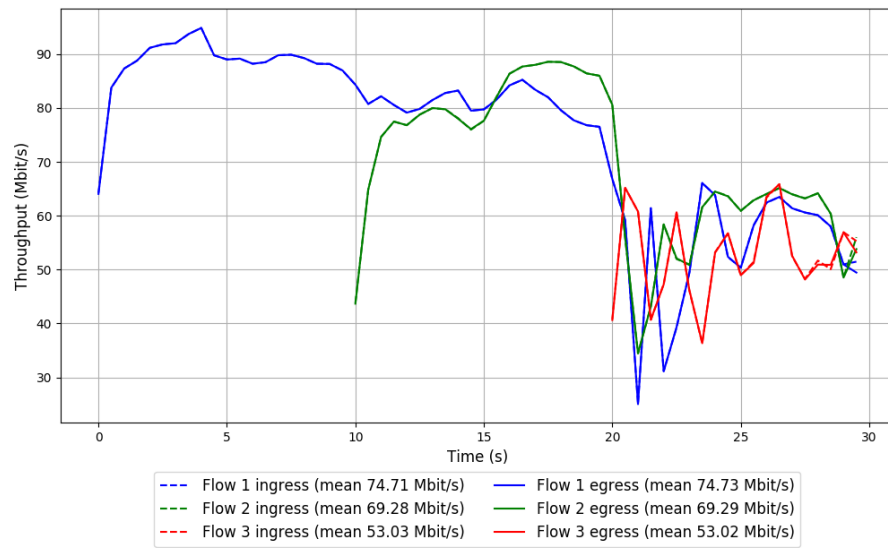


Run 8: Statistics of Copa

Start at: 2018-02-13 17:05:34  
End at: 2018-02-13 17:06:04  
Local clock offset: 2.392 ms  
Remote clock offset: -4.264 ms

```
# Below is generated by plot.py at 2018-02-14 01:04:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.38 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 74.73 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 69.29 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.21%
```

## Run 8: Report of Copa — Data Link

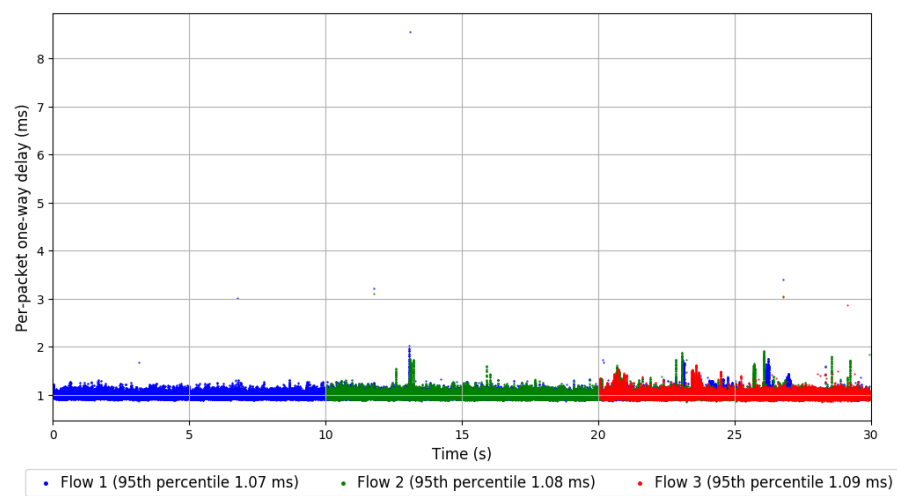
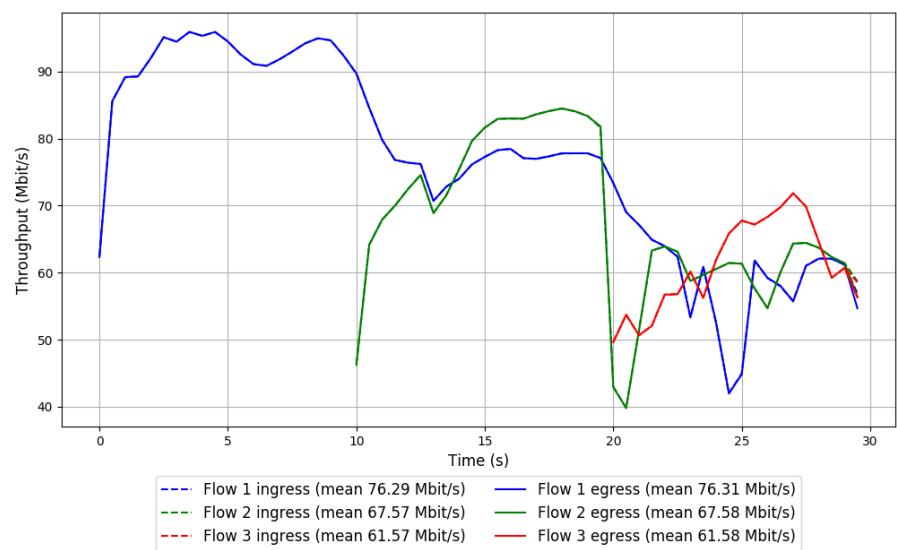


Run 9: Statistics of Copa

Start at: 2018-02-13 17:34:35  
End at: 2018-02-13 17:35:05  
Local clock offset: 3.565 ms  
Remote clock offset: -4.853 ms

# Below is generated by plot.py at 2018-02-14 01:04:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 141.66 Mbit/s  
95th percentile per-packet one-way delay: 1.079 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 76.31 Mbit/s  
95th percentile per-packet one-way delay: 1.075 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 67.58 Mbit/s  
95th percentile per-packet one-way delay: 1.082 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 61.58 Mbit/s  
95th percentile per-packet one-way delay: 1.086 ms  
Loss rate: 0.20%

Run 9: Report of Copa — Data Link

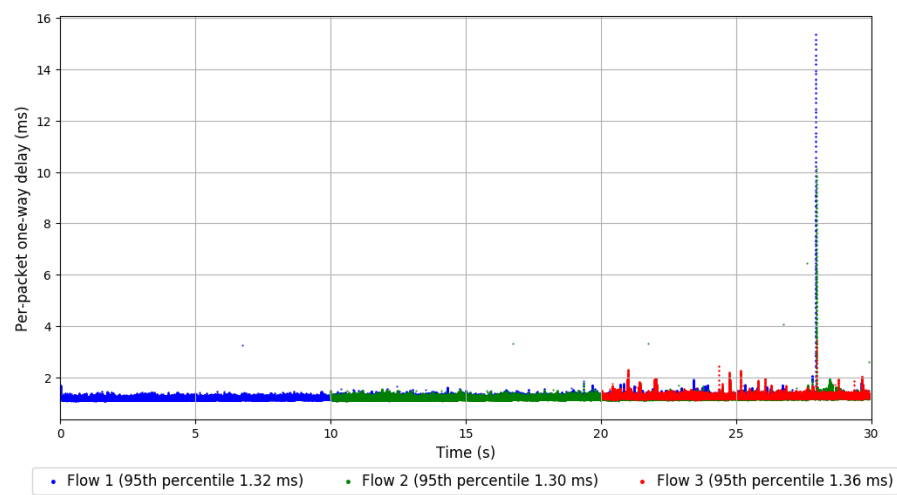
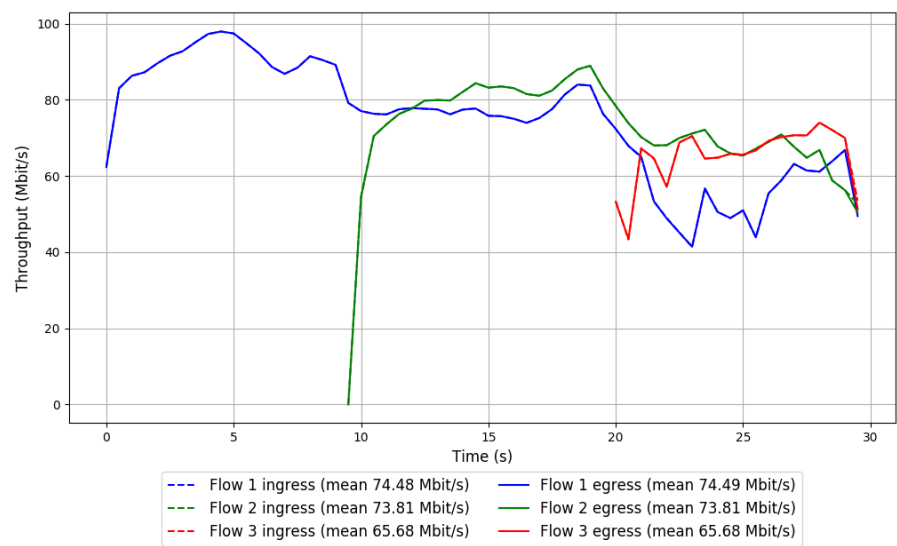


Run 10: Statistics of Copa

Start at: 2018-02-13 18:03:48  
End at: 2018-02-13 18:04:18  
Local clock offset: 0.835 ms  
Remote clock offset: -5.221 ms

# Below is generated by plot.py at 2018-02-14 01:06:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 145.39 Mbit/s  
95th percentile per-packet one-way delay: 1.322 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 74.49 Mbit/s  
95th percentile per-packet one-way delay: 1.316 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 73.81 Mbit/s  
95th percentile per-packet one-way delay: 1.302 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 65.68 Mbit/s  
95th percentile per-packet one-way delay: 1.363 ms  
Loss rate: 0.19%

Run 10: Report of Copa — Data Link

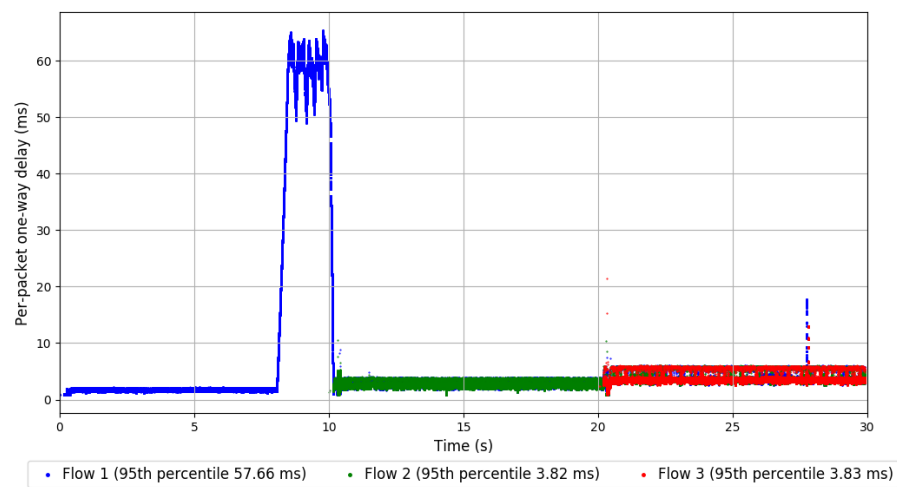
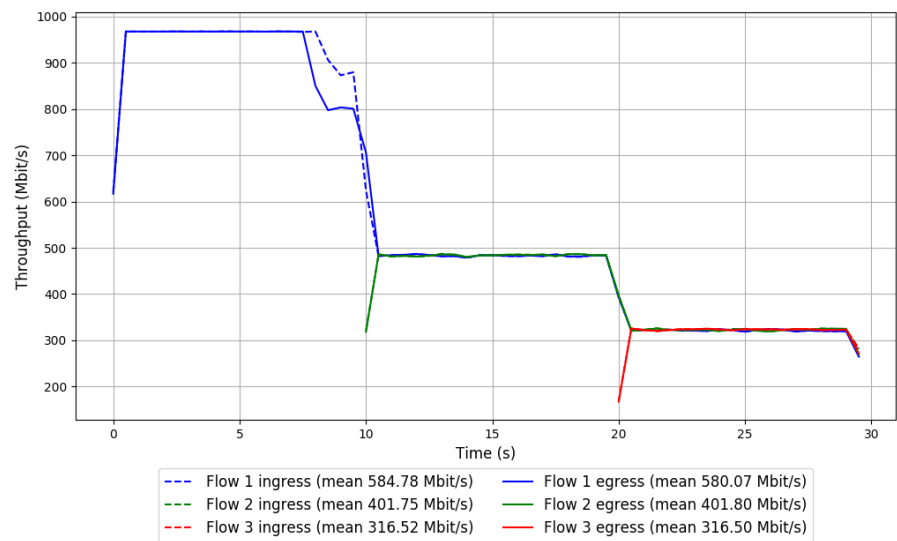


Run 1: Statistics of FillP

Start at: 2018-02-13 13:56:21  
End at: 2018-02-13 13:56:51  
Local clock offset: -0.066 ms  
Remote clock offset: -5.969 ms

# Below is generated by plot.py at 2018-02-14 01:17:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 951.89 Mbit/s  
95th percentile per-packet one-way delay: 35.380 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 580.07 Mbit/s  
95th percentile per-packet one-way delay: 57.661 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 401.80 Mbit/s  
95th percentile per-packet one-way delay: 3.817 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 316.50 Mbit/s  
95th percentile per-packet one-way delay: 3.828 ms  
Loss rate: 0.20%

Run 1: Report of FillP — Data Link

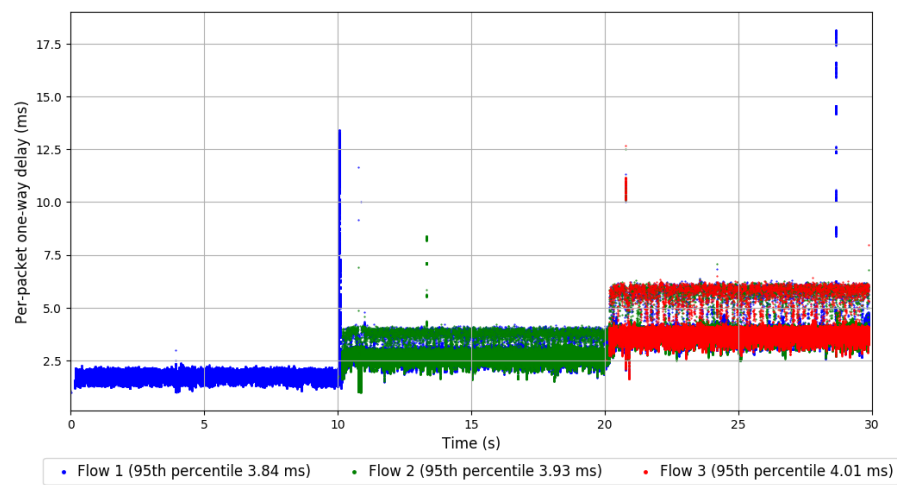
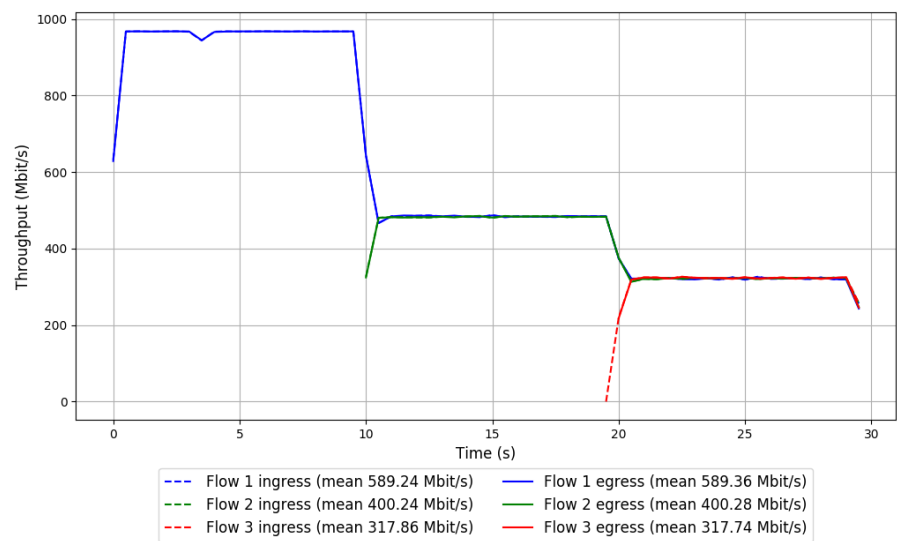


Run 2: Statistics of FillP

Start at: 2018-02-13 14:25:20  
End at: 2018-02-13 14:25:50  
Local clock offset: 0.251 ms  
Remote clock offset: -5.307 ms

# Below is generated by plot.py at 2018-02-14 01:17:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 960.67 Mbit/s  
95th percentile per-packet one-way delay: 3.913 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 589.36 Mbit/s  
95th percentile per-packet one-way delay: 3.841 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 400.28 Mbit/s  
95th percentile per-packet one-way delay: 3.930 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 317.74 Mbit/s  
95th percentile per-packet one-way delay: 4.011 ms  
Loss rate: 0.22%

Run 2: Report of FillP — Data Link

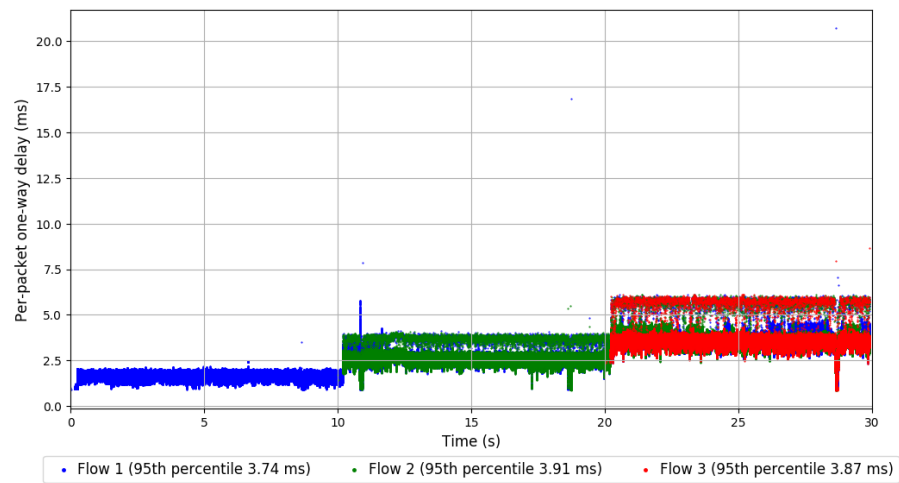
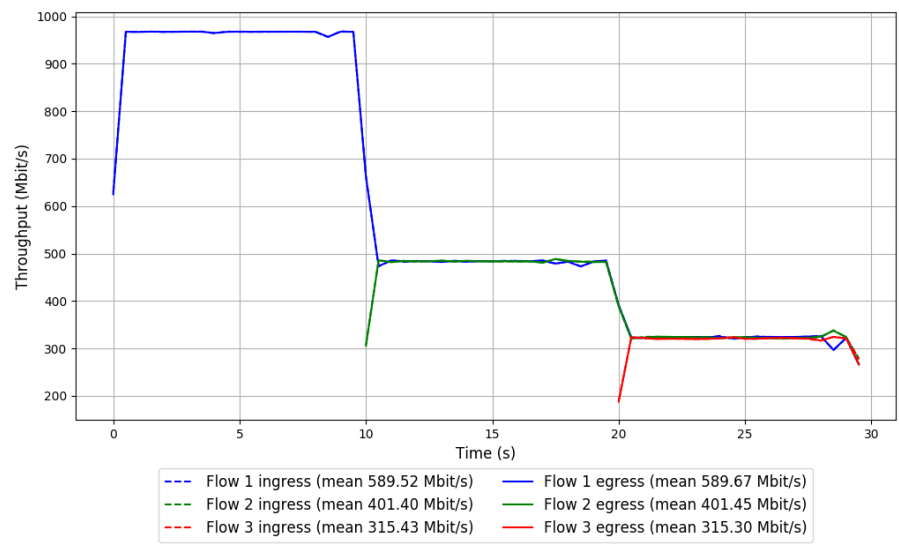


Run 3: Statistics of FillP

Start at: 2018-02-13 14:54:32  
End at: 2018-02-13 14:55:02  
Local clock offset: 0.379 ms  
Remote clock offset: -5.131 ms

# Below is generated by plot.py at 2018-02-14 01:18:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 960.83 Mbit/s  
95th percentile per-packet one-way delay: 3.826 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 589.67 Mbit/s  
95th percentile per-packet one-way delay: 3.741 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 401.45 Mbit/s  
95th percentile per-packet one-way delay: 3.910 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 315.30 Mbit/s  
95th percentile per-packet one-way delay: 3.874 ms  
Loss rate: 0.22%

Run 3: Report of FillP — Data Link

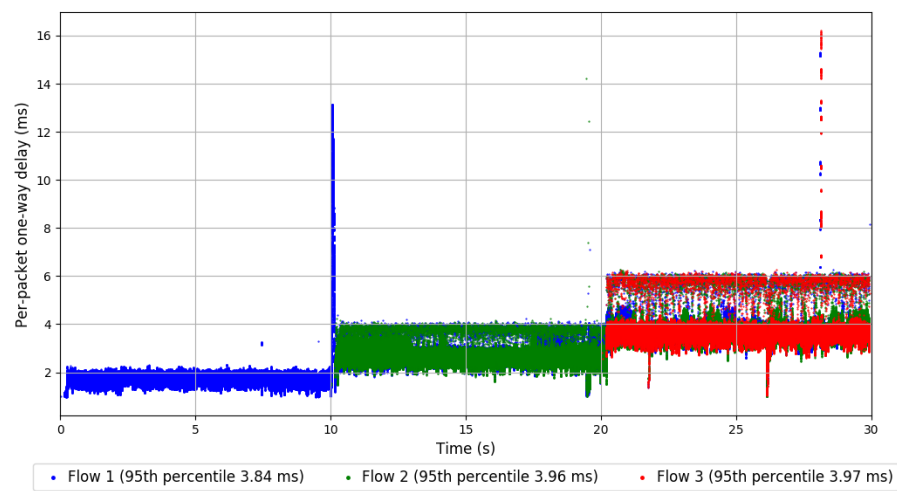
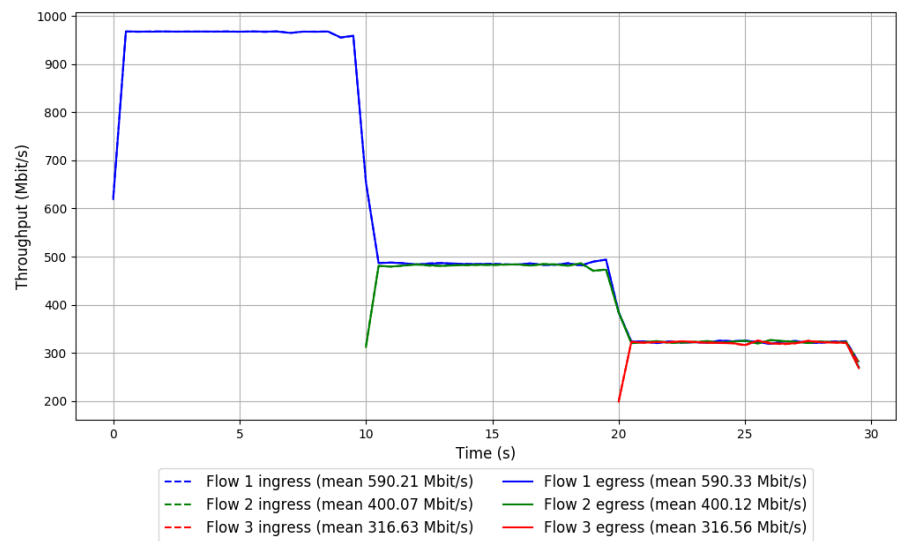


Run 4: Statistics of FillP

Start at: 2018-02-13 15:23:40  
End at: 2018-02-13 15:24:10  
Local clock offset: 0.21 ms  
Remote clock offset: -5.887 ms

# Below is generated by plot.py at 2018-02-14 01:18:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 961.00 Mbit/s  
95th percentile per-packet one-way delay: 3.905 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 590.33 Mbit/s  
95th percentile per-packet one-way delay: 3.836 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 400.12 Mbit/s  
95th percentile per-packet one-way delay: 3.956 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 316.56 Mbit/s  
95th percentile per-packet one-way delay: 3.967 ms  
Loss rate: 0.21%

Run 4: Report of FillP — Data Link

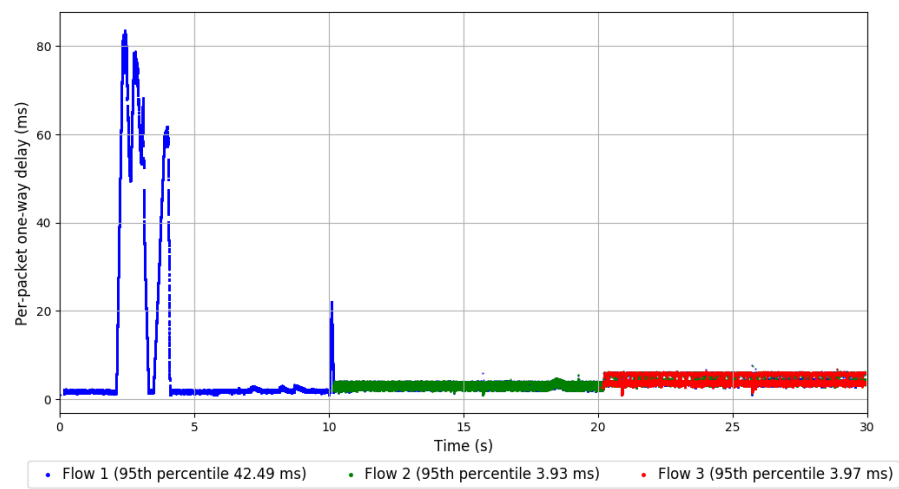
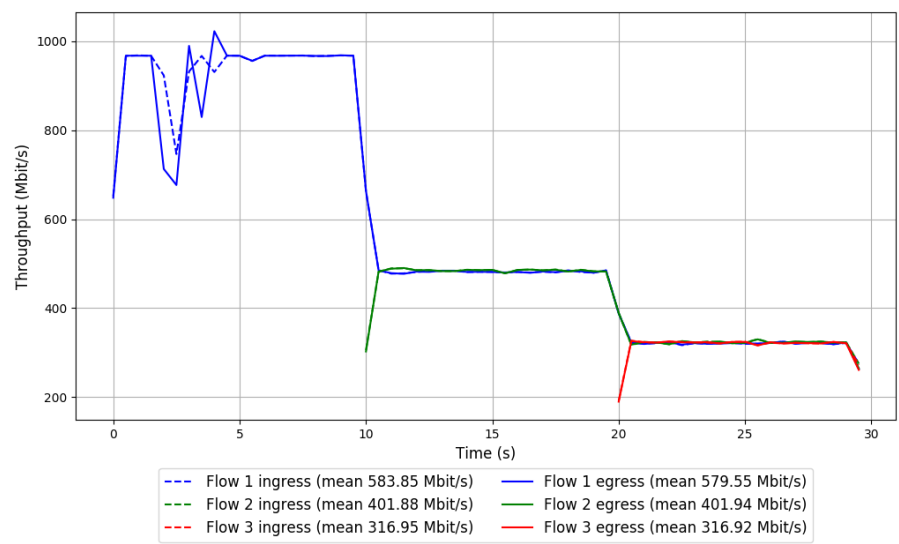


Run 5: Statistics of FillP

Start at: 2018-02-13 15:52:44  
End at: 2018-02-13 15:53:14  
Local clock offset: -0.192 ms  
Remote clock offset: -7.108 ms

# Below is generated by plot.py at 2018-02-14 01:18:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 951.46 Mbit/s  
95th percentile per-packet one-way delay: 8.716 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 579.55 Mbit/s  
95th percentile per-packet one-way delay: 42.492 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 401.94 Mbit/s  
95th percentile per-packet one-way delay: 3.930 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 316.92 Mbit/s  
95th percentile per-packet one-way delay: 3.969 ms  
Loss rate: 0.21%

Run 5: Report of FillP — Data Link

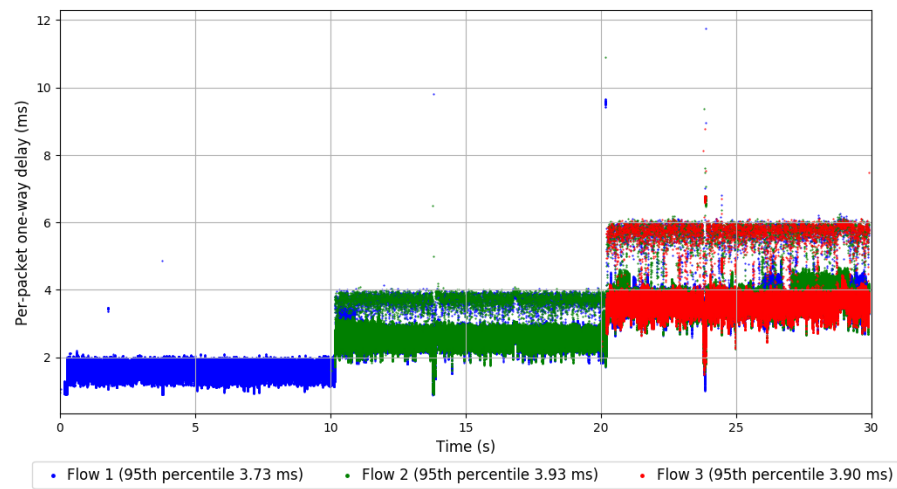
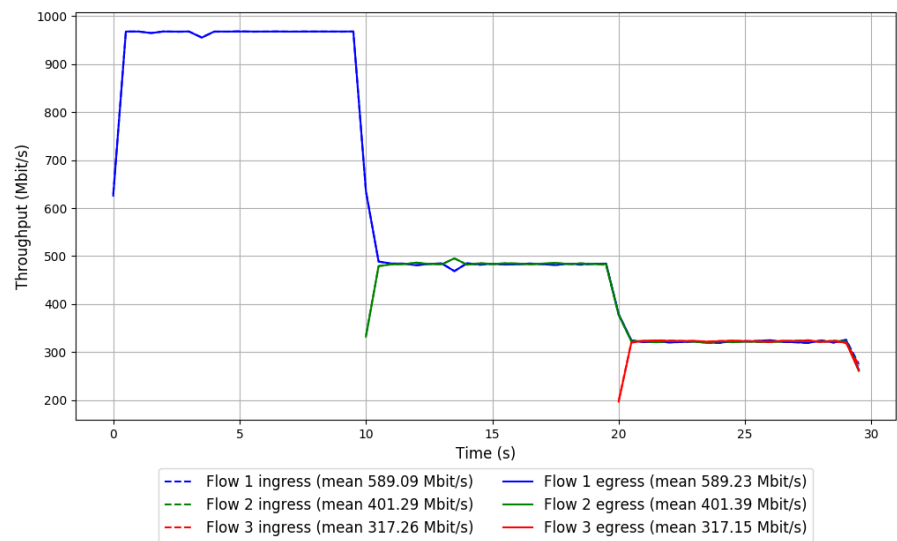


Run 6: Statistics of FillP

Start at: 2018-02-13 16:21:55  
End at: 2018-02-13 16:22:25  
Local clock offset: -0.435 ms  
Remote clock offset: -6.938 ms

# Below is generated by plot.py at 2018-02-14 01:19:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 960.95 Mbit/s  
95th percentile per-packet one-way delay: 3.827 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 589.23 Mbit/s  
95th percentile per-packet one-way delay: 3.731 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 401.39 Mbit/s  
95th percentile per-packet one-way delay: 3.933 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 317.15 Mbit/s  
95th percentile per-packet one-way delay: 3.897 ms  
Loss rate: 0.23%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-13 16:50:51

End at: 2018-02-13 16:51:21

Local clock offset: 0.884 ms

Remote clock offset: -5.1 ms

# Below is generated by plot.py at 2018-02-14 01:19:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 957.86 Mbit/s

95th percentile per-packet one-way delay: 4.400 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 587.12 Mbit/s

95th percentile per-packet one-way delay: 4.811 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 399.72 Mbit/s

95th percentile per-packet one-way delay: 4.127 ms

Loss rate: 0.09%

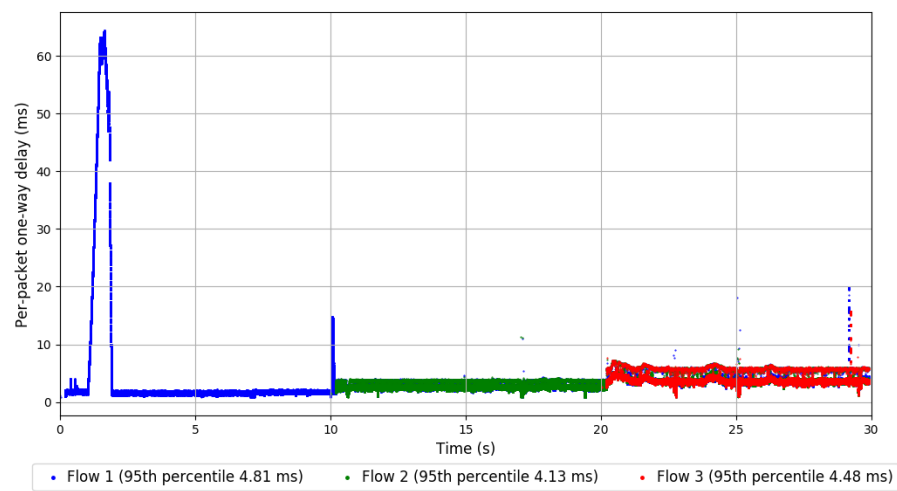
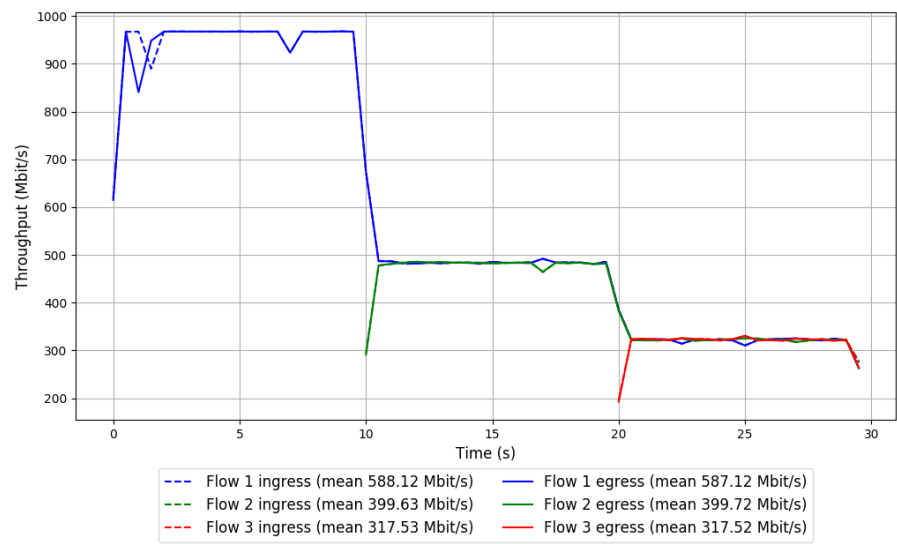
-- Flow 3:

Average throughput: 317.52 Mbit/s

95th percentile per-packet one-way delay: 4.479 ms

Loss rate: 0.22%

Run 7: Report of FillP — Data Link

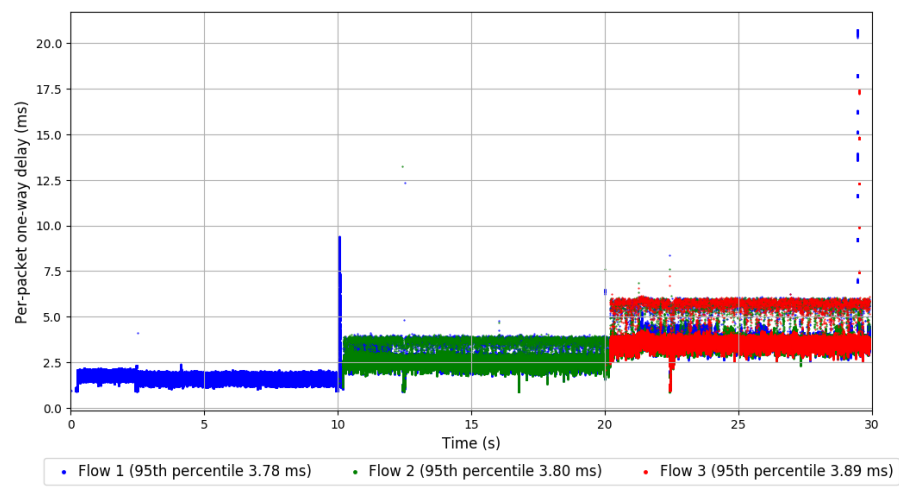
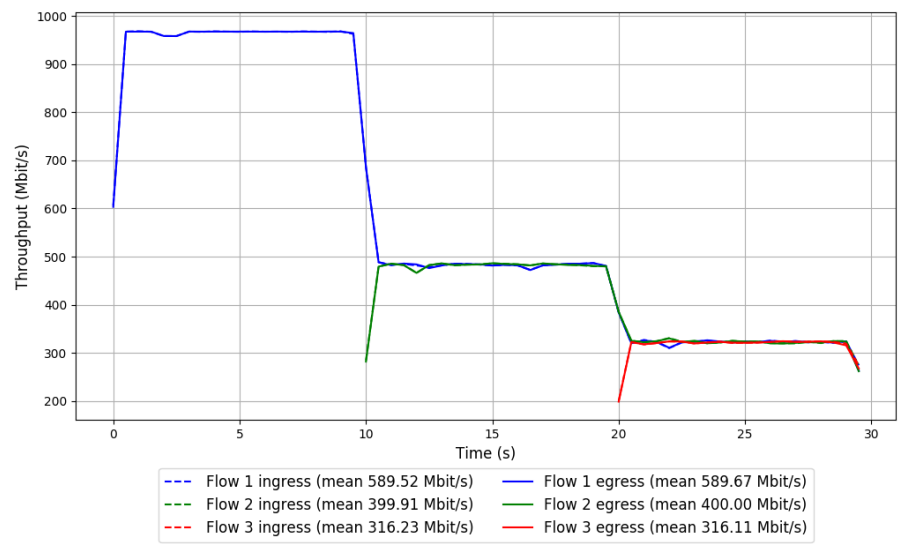


Run 8: Statistics of FillP

Start at: 2018-02-13 17:19:46  
End at: 2018-02-13 17:20:16  
Local clock offset: 3.093 ms  
Remote clock offset: -4.843 ms

# Below is generated by plot.py at 2018-02-14 01:21:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 960.03 Mbit/s  
95th percentile per-packet one-way delay: 3.818 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 589.67 Mbit/s  
95th percentile per-packet one-way delay: 3.784 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 400.00 Mbit/s  
95th percentile per-packet one-way delay: 3.802 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 316.11 Mbit/s  
95th percentile per-packet one-way delay: 3.892 ms  
Loss rate: 0.21%

Run 8: Report of FillP — Data Link

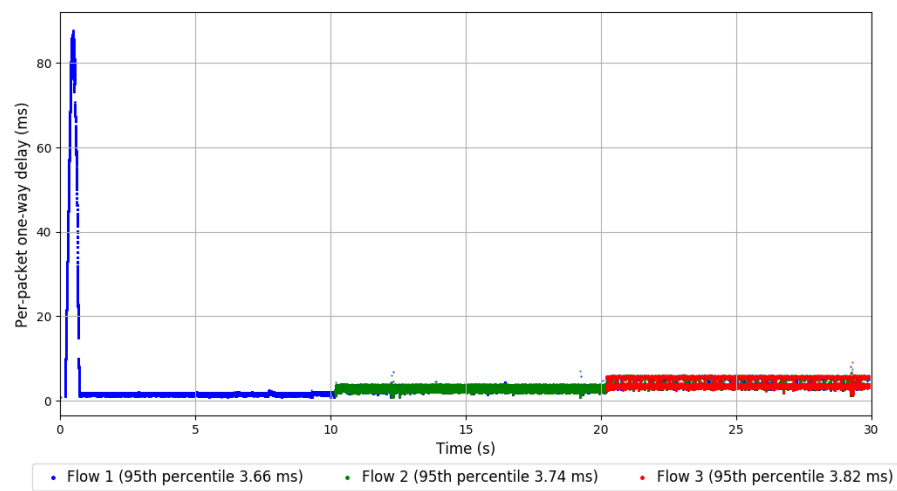
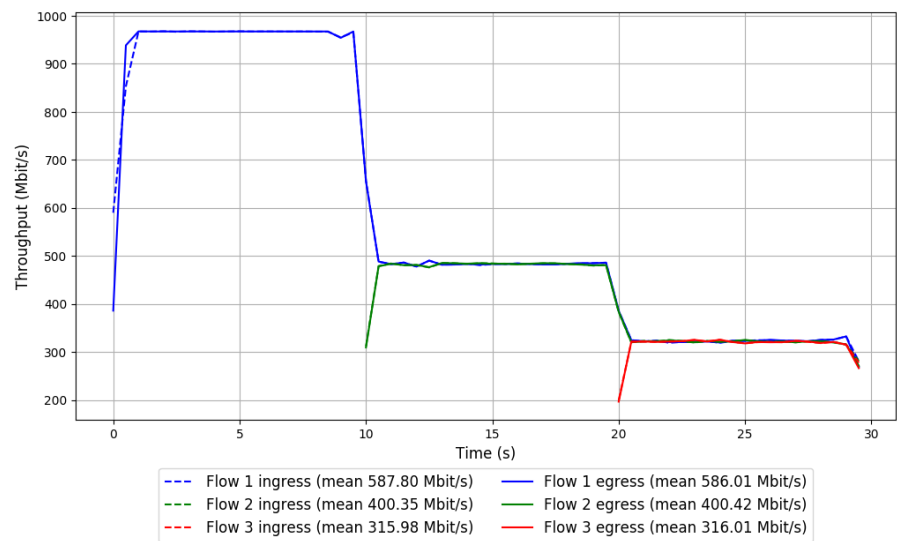


Run 9: Statistics of FillP

Start at: 2018-02-13 17:48:48  
End at: 2018-02-13 17:49:18  
Local clock offset: 4.067 ms  
Remote clock offset: -4.968 ms

# Below is generated by plot.py at 2018-02-14 01:32:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 956.83 Mbit/s  
95th percentile per-packet one-way delay: 3.733 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 586.01 Mbit/s  
95th percentile per-packet one-way delay: 3.664 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 400.42 Mbit/s  
95th percentile per-packet one-way delay: 3.737 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 316.01 Mbit/s  
95th percentile per-packet one-way delay: 3.824 ms  
Loss rate: 0.22%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 18:18:04

End at: 2018-02-13 18:18:34

Local clock offset: -0.86 ms

Remote clock offset: -5.35 ms

# Below is generated by plot.py at 2018-02-14 01:32:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 952.55 Mbit/s

95th percentile per-packet one-way delay: 4.486 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 580.81 Mbit/s

95th percentile per-packet one-way delay: 36.502 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 401.19 Mbit/s

95th percentile per-packet one-way delay: 3.827 ms

Loss rate: 0.09%

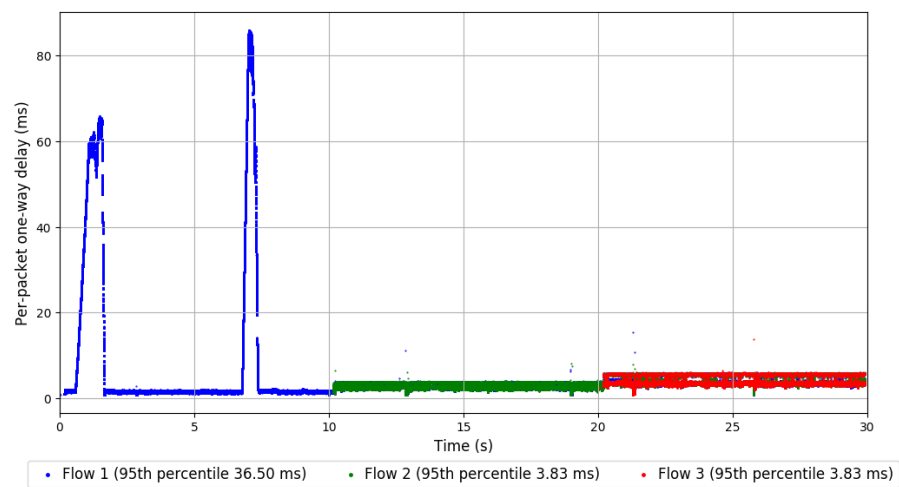
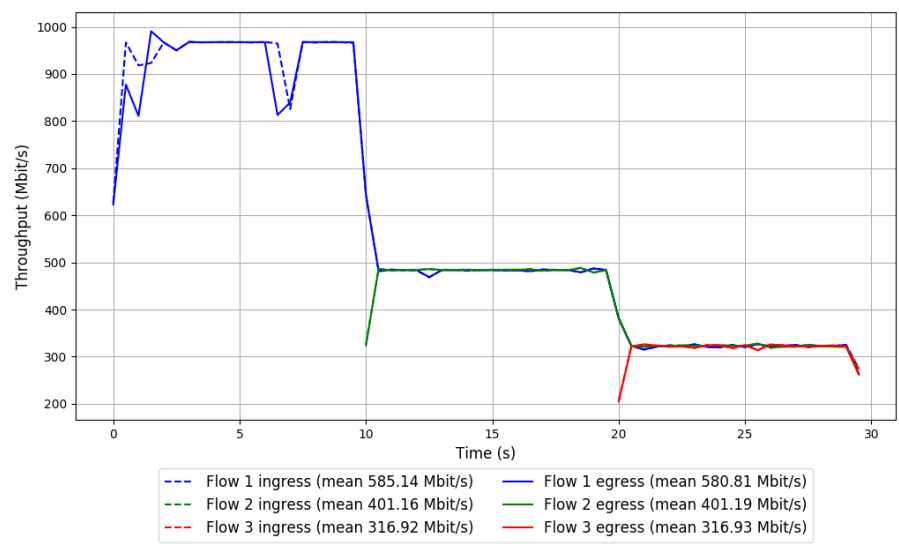
-- Flow 3:

Average throughput: 316.93 Mbit/s

95th percentile per-packet one-way delay: 3.832 ms

Loss rate: 0.20%

Run 10: Report of FillP — Data Link

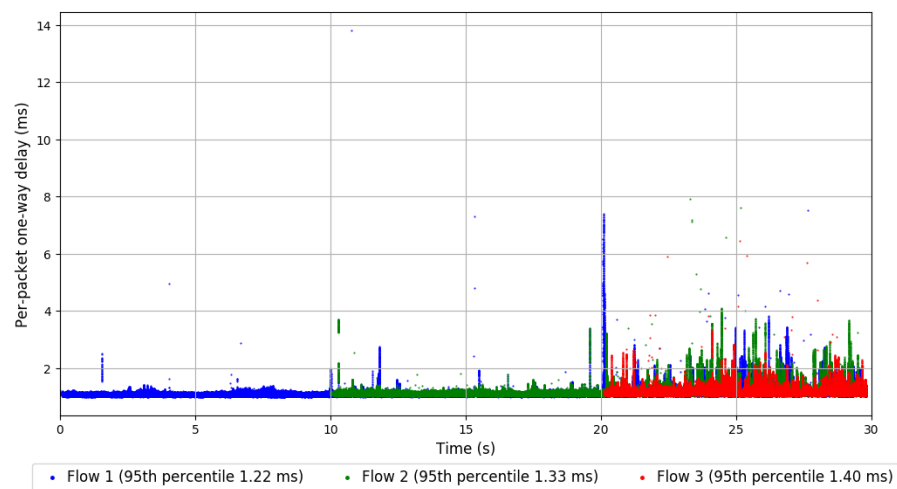
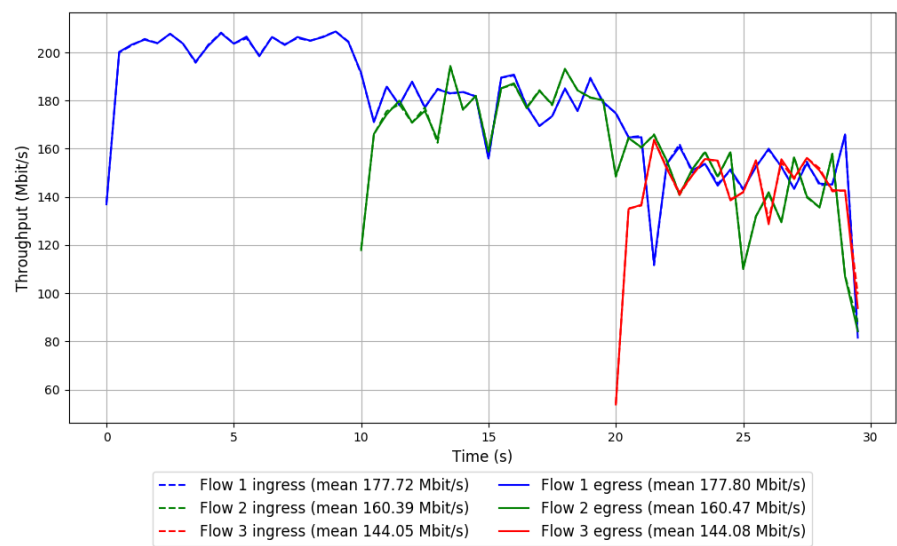


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 13:54:46
End at: 2018-02-13 13:55:16
Local clock offset: 0.004 ms
Remote clock offset: -6.099 ms

# Below is generated by plot.py at 2018-02-14 01:32:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.28 Mbit/s
95th percentile per-packet one-way delay: 1.288 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 177.80 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 160.47 Mbit/s
95th percentile per-packet one-way delay: 1.327 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 144.08 Mbit/s
95th percentile per-packet one-way delay: 1.395 ms
Loss rate: 0.22%
```

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

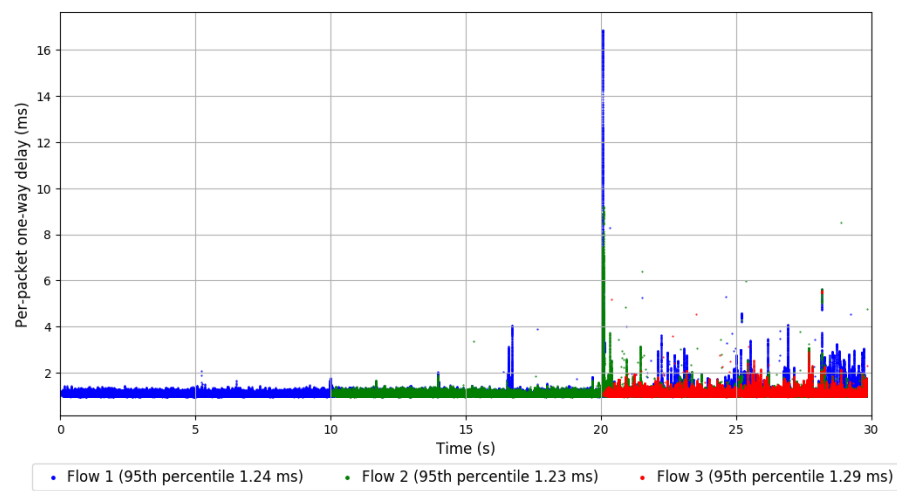
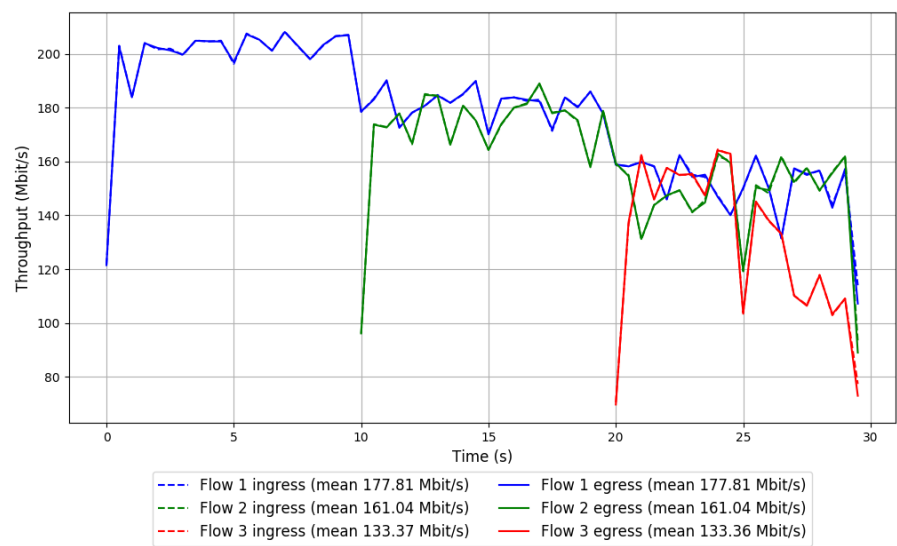


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 14:23:46  
End at: 2018-02-13 14:24:16  
Local clock offset: 0.181 ms  
Remote clock offset: -5.359 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.25 Mbit/s  
95th percentile per-packet one-way delay: 1.245 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 177.81 Mbit/s  
95th percentile per-packet one-way delay: 1.243 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 161.04 Mbit/s  
95th percentile per-packet one-way delay: 1.228 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 133.36 Mbit/s  
95th percentile per-packet one-way delay: 1.294 ms  
Loss rate: 0.17%

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

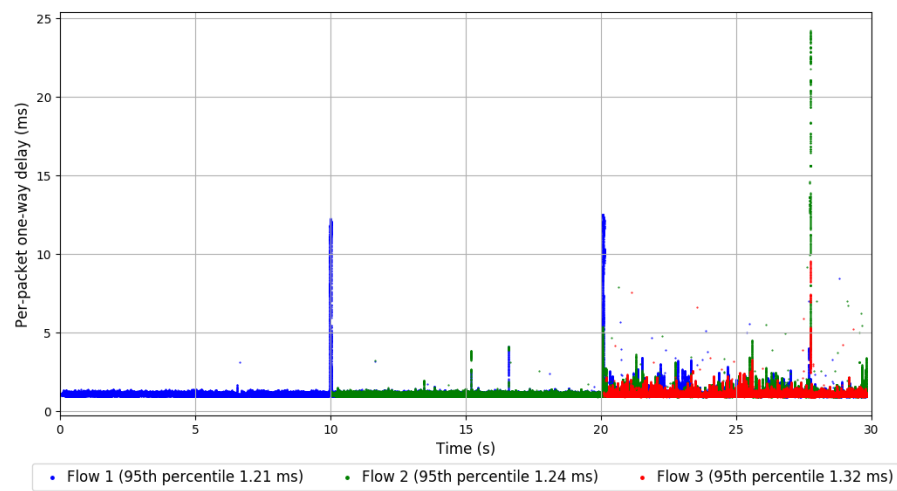
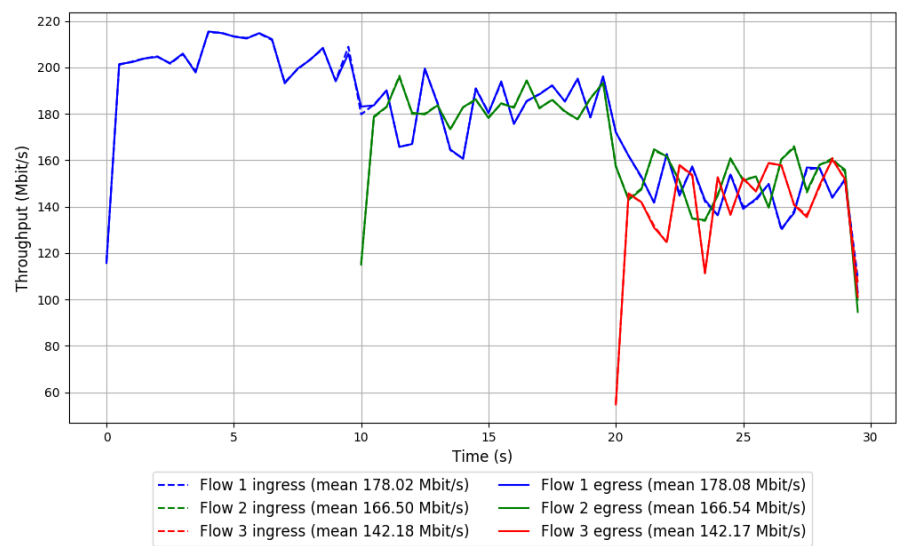


Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 14:52:57  
End at: 2018-02-13 14:53:27  
Local clock offset: 0.455 ms  
Remote clock offset: -4.931 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 334.94 Mbit/s  
95th percentile per-packet one-way delay: 1.232 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 178.08 Mbit/s  
95th percentile per-packet one-way delay: 1.207 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 166.54 Mbit/s  
95th percentile per-packet one-way delay: 1.239 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 142.17 Mbit/s  
95th percentile per-packet one-way delay: 1.317 ms  
Loss rate: 0.22%

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

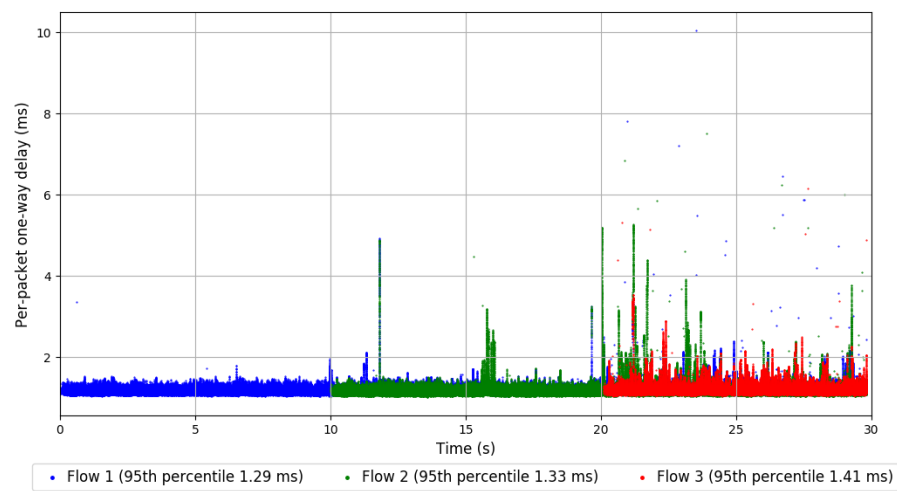
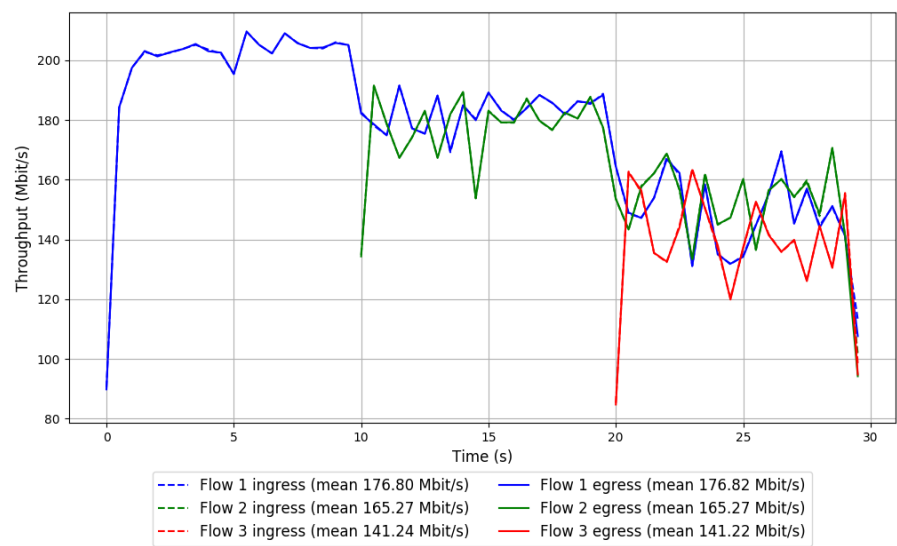


Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 15:22:05  
End at: 2018-02-13 15:22:35  
Local clock offset: 0.328 ms  
Remote clock offset: -5.882 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 332.59 Mbit/s  
95th percentile per-packet one-way delay: 1.319 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 176.82 Mbit/s  
95th percentile per-packet one-way delay: 1.295 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 165.27 Mbit/s  
95th percentile per-packet one-way delay: 1.328 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 141.22 Mbit/s  
95th percentile per-packet one-way delay: 1.409 ms  
Loss rate: 0.16%

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

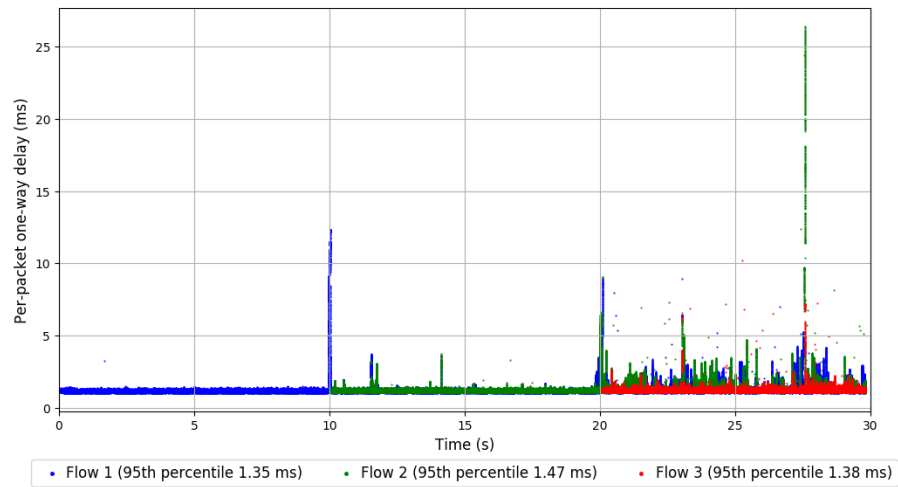
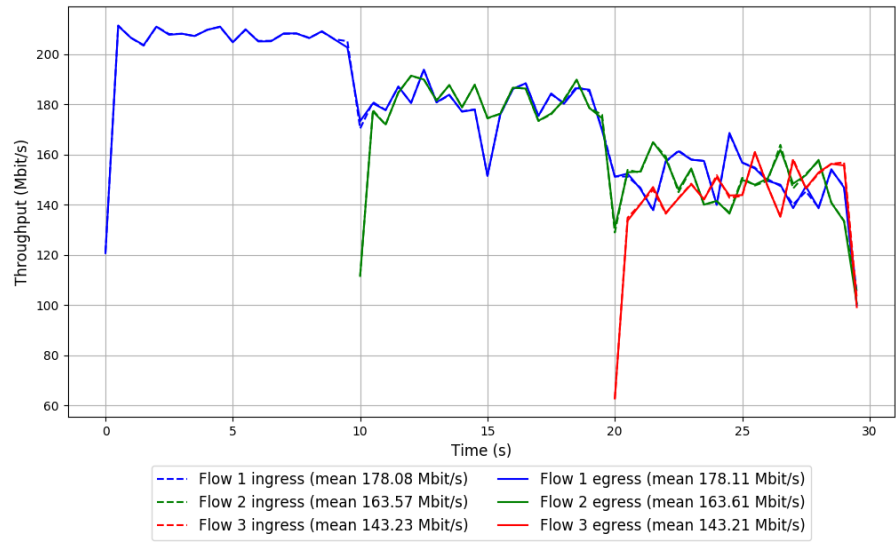


Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 15:51:09  
End at: 2018-02-13 15:51:39  
Local clock offset: -0.06 ms  
Remote clock offset: -7.084 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 333.77 Mbit/s  
95th percentile per-packet one-way delay: 1.398 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 178.11 Mbit/s  
95th percentile per-packet one-way delay: 1.355 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 163.61 Mbit/s  
95th percentile per-packet one-way delay: 1.474 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 143.21 Mbit/s  
95th percentile per-packet one-way delay: 1.381 ms  
Loss rate: 0.17%

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

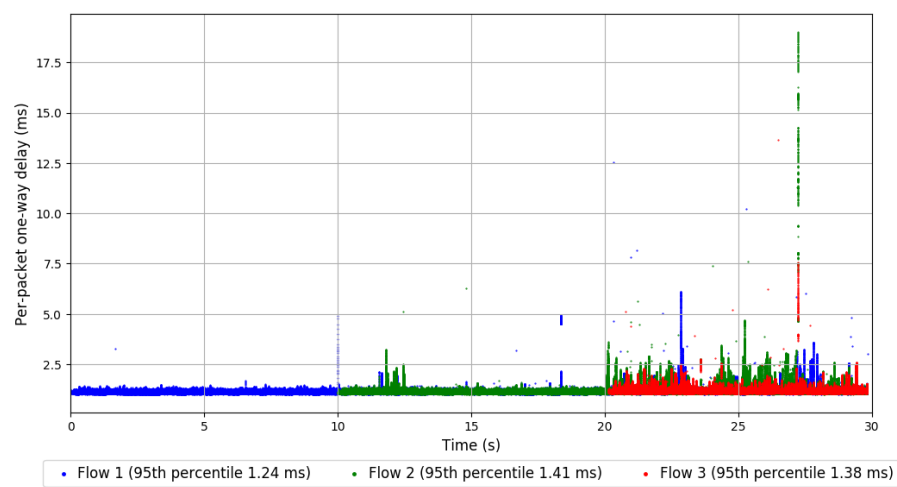
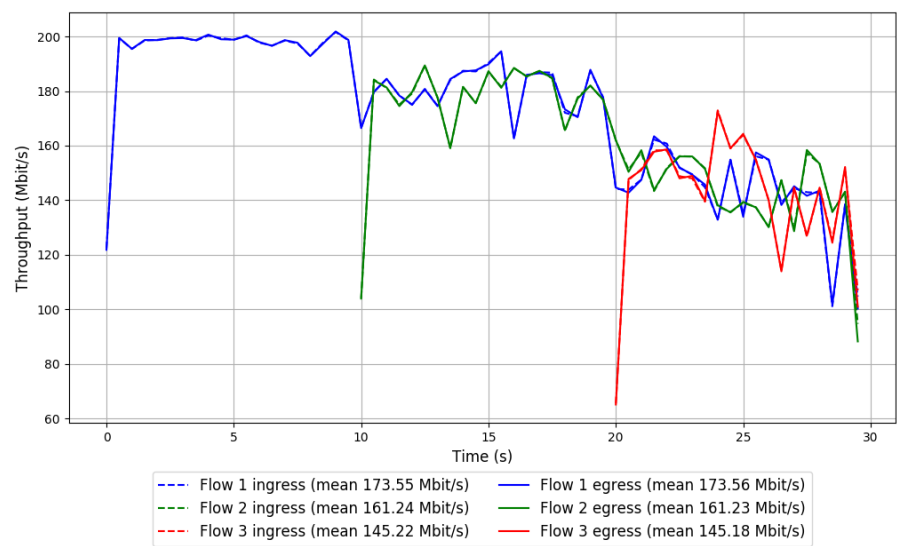


Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 16:20:21  
End at: 2018-02-13 16:20:51  
Local clock offset: -0.332 ms  
Remote clock offset: -7.006 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 327.84 Mbit/s  
95th percentile per-packet one-way delay: 1.299 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 173.56 Mbit/s  
95th percentile per-packet one-way delay: 1.237 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 161.23 Mbit/s  
95th percentile per-packet one-way delay: 1.413 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 145.18 Mbit/s  
95th percentile per-packet one-way delay: 1.383 ms  
Loss rate: 0.22%

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

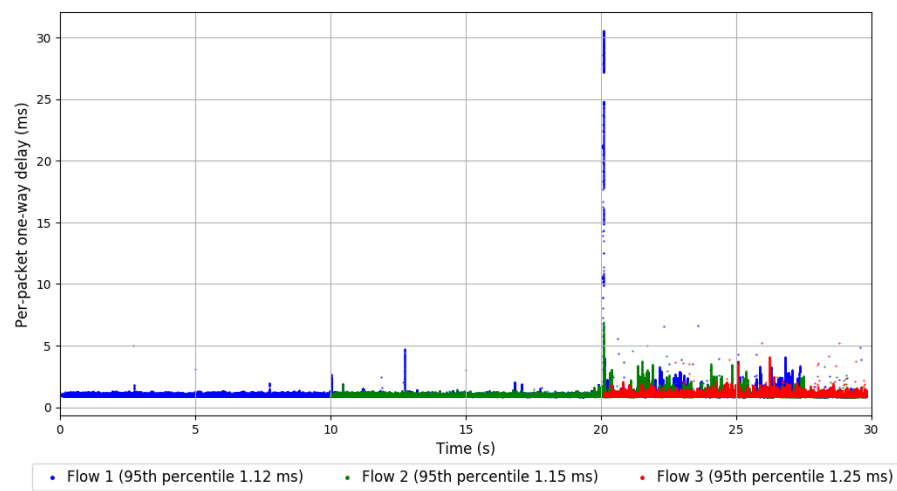
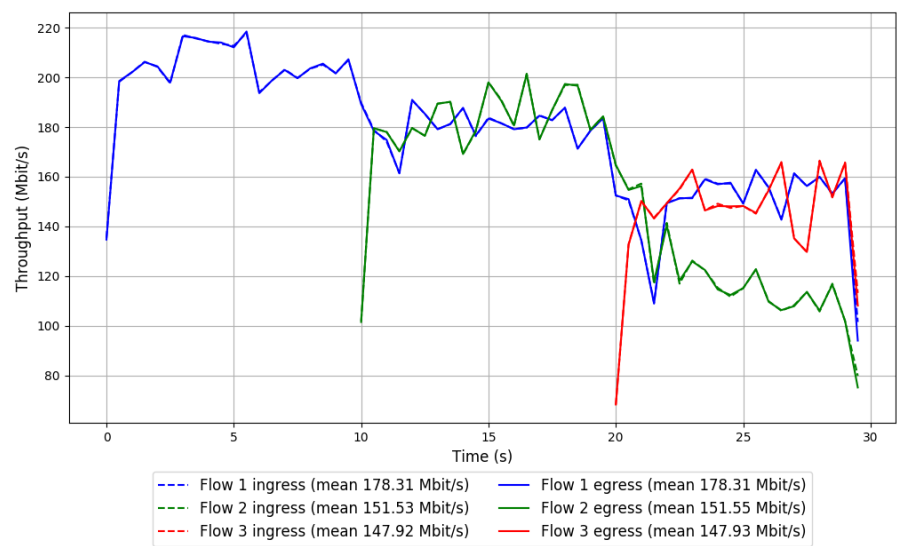


Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 16:49:17  
End at: 2018-02-13 16:49:47  
Local clock offset: 0.589 ms  
Remote clock offset: -5.233 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 327.16 Mbit/s  
95th percentile per-packet one-way delay: 1.148 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 178.31 Mbit/s  
95th percentile per-packet one-way delay: 1.120 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 151.55 Mbit/s  
95th percentile per-packet one-way delay: 1.148 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 147.93 Mbit/s  
95th percentile per-packet one-way delay: 1.253 ms  
Loss rate: 0.19%

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

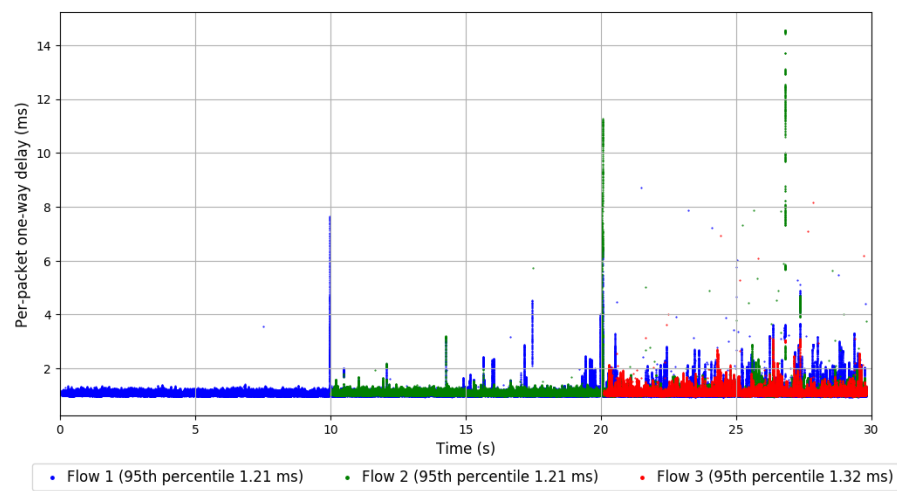
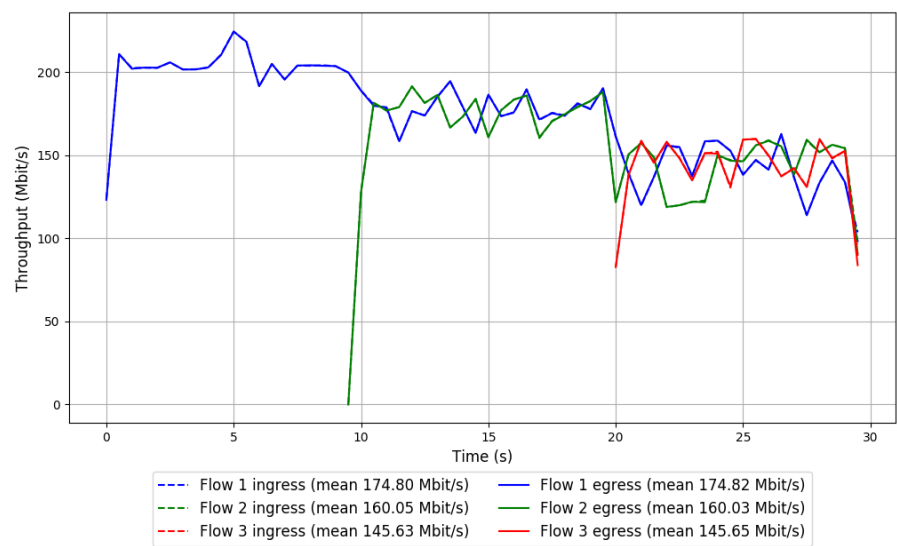


Run 8: Statistics of Indigo-1-32

Start at: 2018-02-13 17:18:11  
End at: 2018-02-13 17:18:41  
Local clock offset: 3.039 ms  
Remote clock offset: -4.902 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.53 Mbit/s  
95th percentile per-packet one-way delay: 1.231 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 174.82 Mbit/s  
95th percentile per-packet one-way delay: 1.214 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 160.03 Mbit/s  
95th percentile per-packet one-way delay: 1.214 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 145.65 Mbit/s  
95th percentile per-packet one-way delay: 1.319 ms  
Loss rate: 0.21%

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

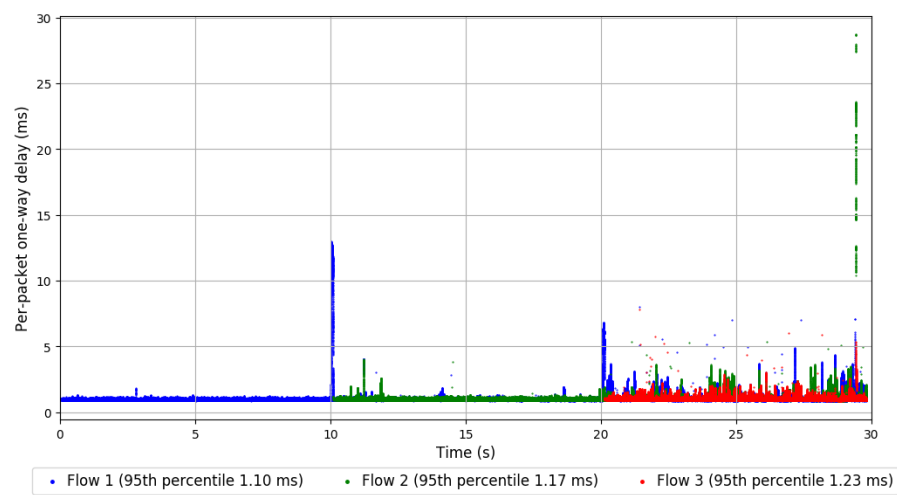
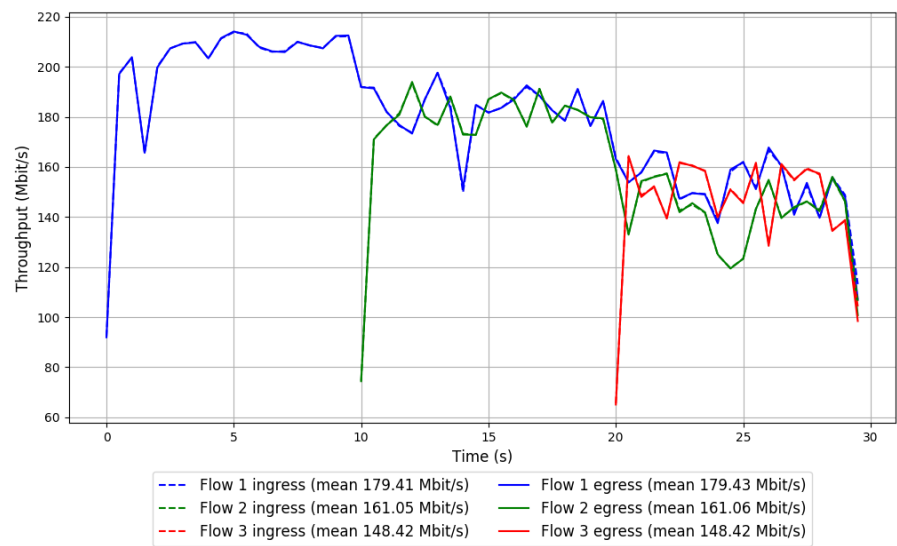


Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 17:47:13  
End at: 2018-02-13 17:47:43  
Local clock offset: 3.998 ms  
Remote clock offset: -4.989 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 334.21 Mbit/s  
95th percentile per-packet one-way delay: 1.147 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 179.43 Mbit/s  
95th percentile per-packet one-way delay: 1.103 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 161.06 Mbit/s  
95th percentile per-packet one-way delay: 1.171 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 148.42 Mbit/s  
95th percentile per-packet one-way delay: 1.234 ms  
Loss rate: 0.20%

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

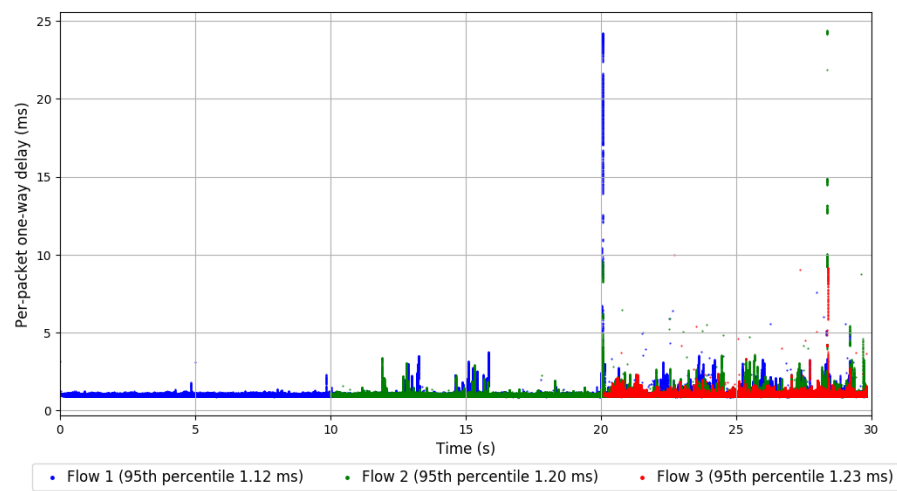
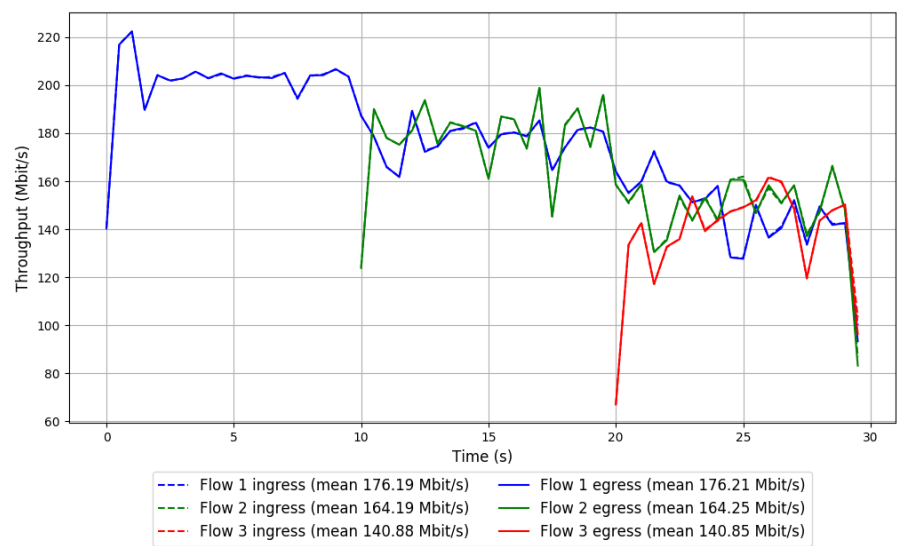


Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 18:16:29  
End at: 2018-02-13 18:16:59  
Local clock offset: -0.744 ms  
Remote clock offset: -5.213 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 331.28 Mbit/s  
95th percentile per-packet one-way delay: 1.168 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 176.21 Mbit/s  
95th percentile per-packet one-way delay: 1.125 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 164.25 Mbit/s  
95th percentile per-packet one-way delay: 1.204 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 140.85 Mbit/s  
95th percentile per-packet one-way delay: 1.226 ms  
Loss rate: 0.25%

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

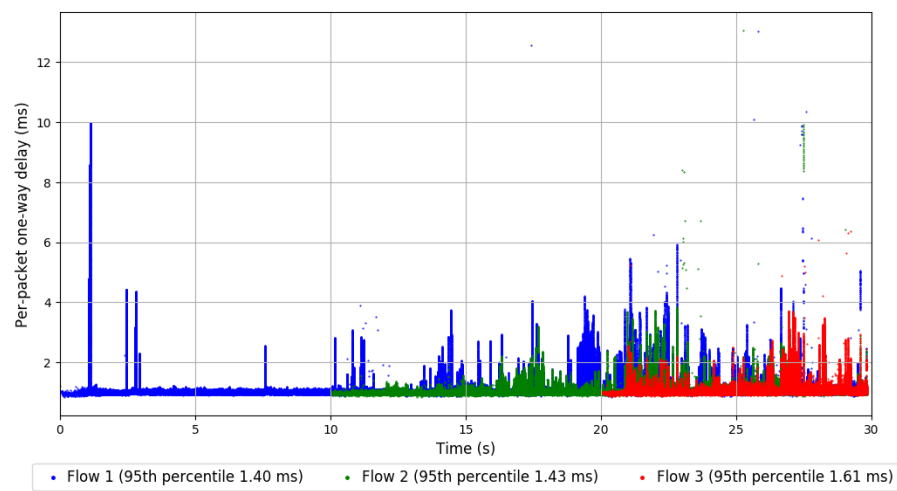
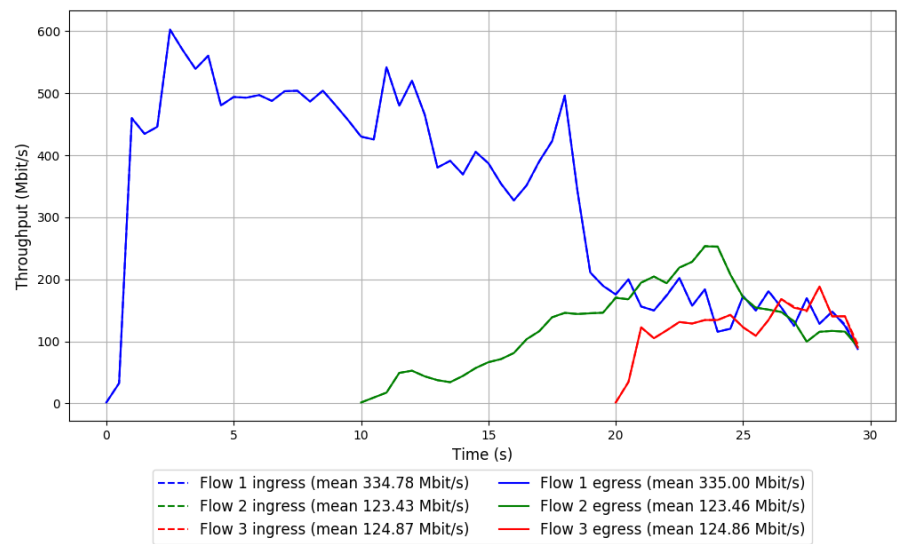


Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 13:49:34  
End at: 2018-02-13 13:50:04  
Local clock offset: -0.095 ms  
Remote clock offset: -6.315 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 458.12 Mbit/s  
95th percentile per-packet one-way delay: 1.433 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 335.00 Mbit/s  
95th percentile per-packet one-way delay: 1.395 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 123.46 Mbit/s  
95th percentile per-packet one-way delay: 1.427 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 124.86 Mbit/s  
95th percentile per-packet one-way delay: 1.607 ms  
Loss rate: 0.21%

Run 1: Report of Vivace-latency — Data Link

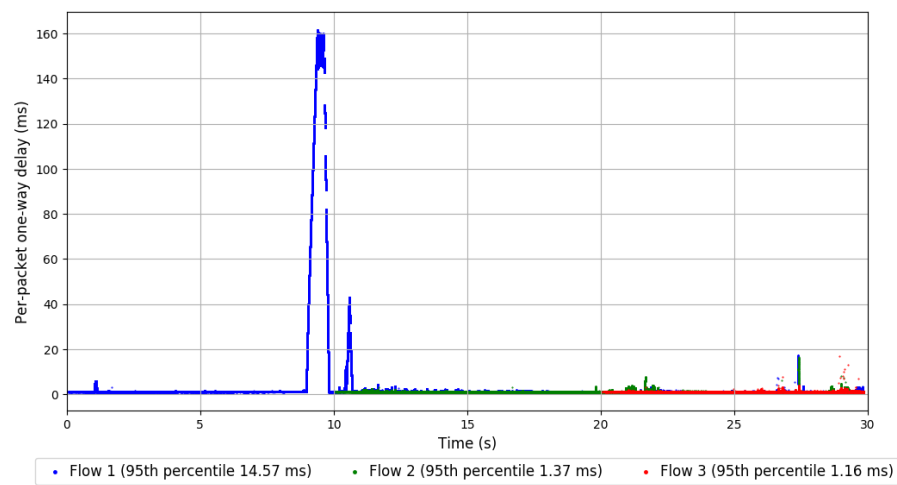
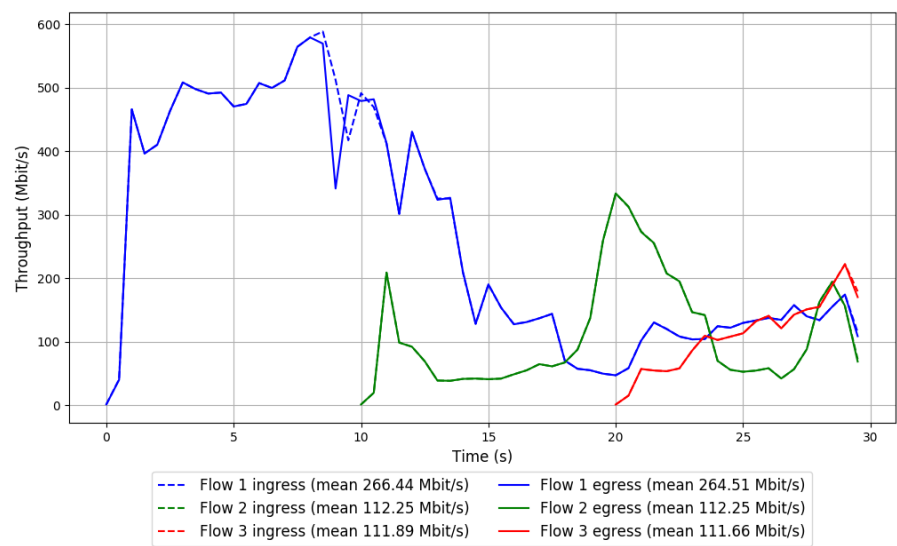


Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 14:18:39  
End at: 2018-02-13 14:19:09  
Local clock offset: 0.214 ms  
Remote clock offset: -5.385 ms

# Below is generated by plot.py at 2018-02-14 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 375.66 Mbit/s  
95th percentile per-packet one-way delay: 2.792 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 264.51 Mbit/s  
95th percentile per-packet one-way delay: 14.575 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 112.25 Mbit/s  
95th percentile per-packet one-way delay: 1.372 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 111.66 Mbit/s  
95th percentile per-packet one-way delay: 1.156 ms  
Loss rate: 0.44%

Run 2: Report of Vivace-latency — Data Link

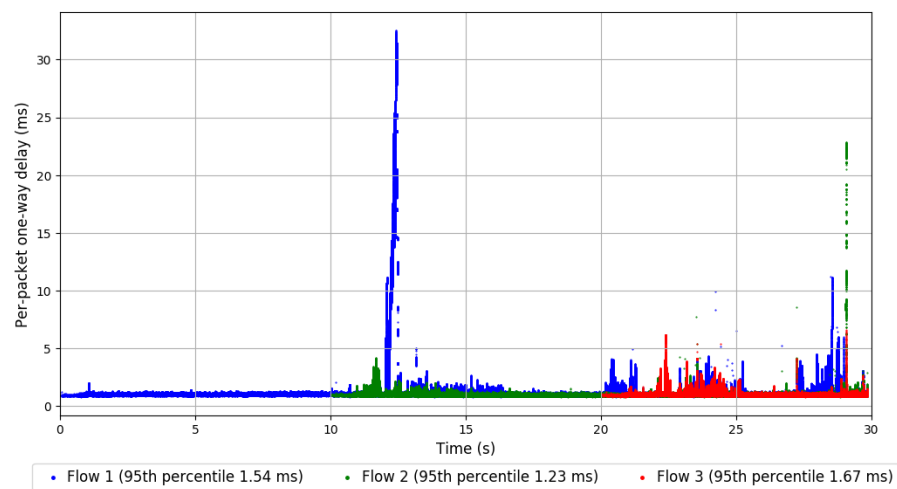
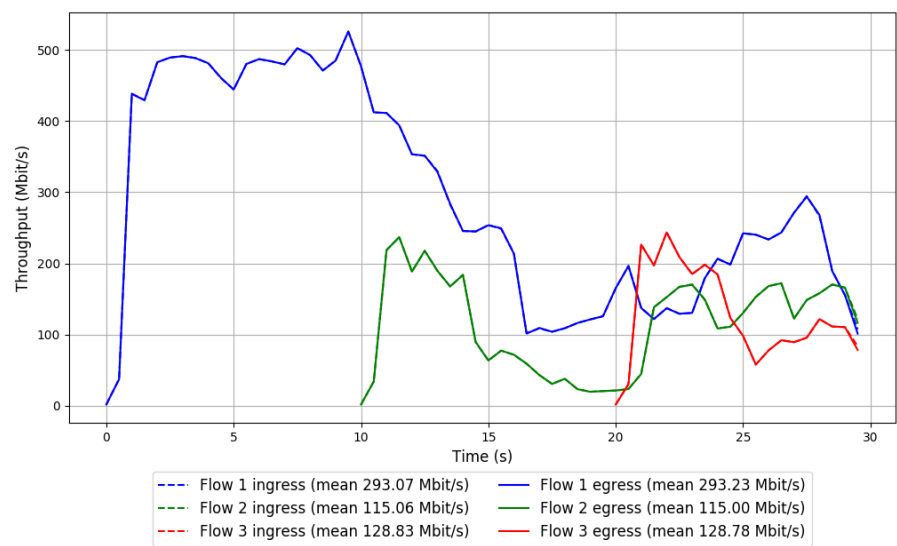


Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 14:47:46  
End at: 2018-02-13 14:48:16  
Local clock offset: 0.343 ms  
Remote clock offset: -4.819 ms

# Below is generated by plot.py at 2018-02-14 01:33:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.96 Mbit/s  
95th percentile per-packet one-way delay: 1.472 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 293.23 Mbit/s  
95th percentile per-packet one-way delay: 1.536 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 115.00 Mbit/s  
95th percentile per-packet one-way delay: 1.228 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 128.78 Mbit/s  
95th percentile per-packet one-way delay: 1.673 ms  
Loss rate: 0.22%

Run 3: Report of Vivace-latency — Data Link

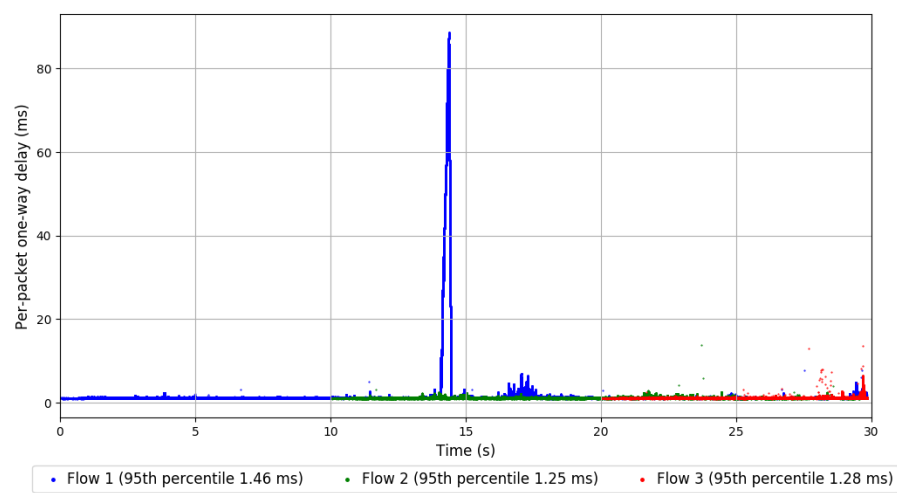
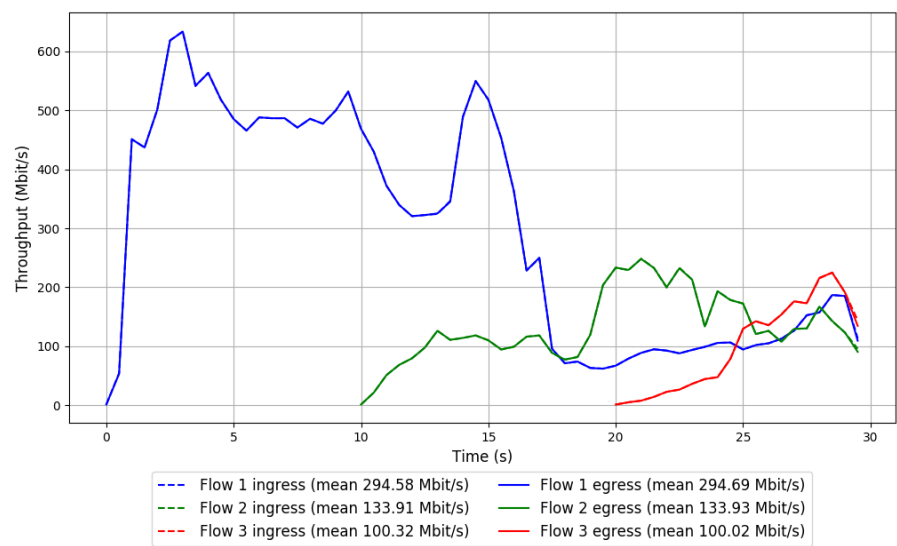


Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 15:16:56  
End at: 2018-02-13 15:17:26  
Local clock offset: 0.342 ms  
Remote clock offset: -5.764 ms

# Below is generated by plot.py at 2018-02-14 01:33:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 416.53 Mbit/s  
95th percentile per-packet one-way delay: 1.355 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 294.69 Mbit/s  
95th percentile per-packet one-way delay: 1.459 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 133.93 Mbit/s  
95th percentile per-packet one-way delay: 1.249 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 100.02 Mbit/s  
95th percentile per-packet one-way delay: 1.284 ms  
Loss rate: 0.48%

Run 4: Report of Vivace-latency — Data Link

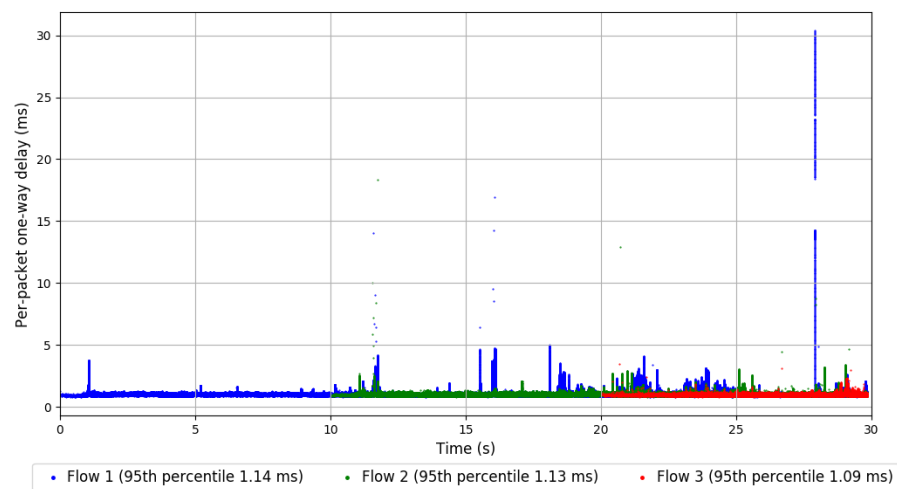
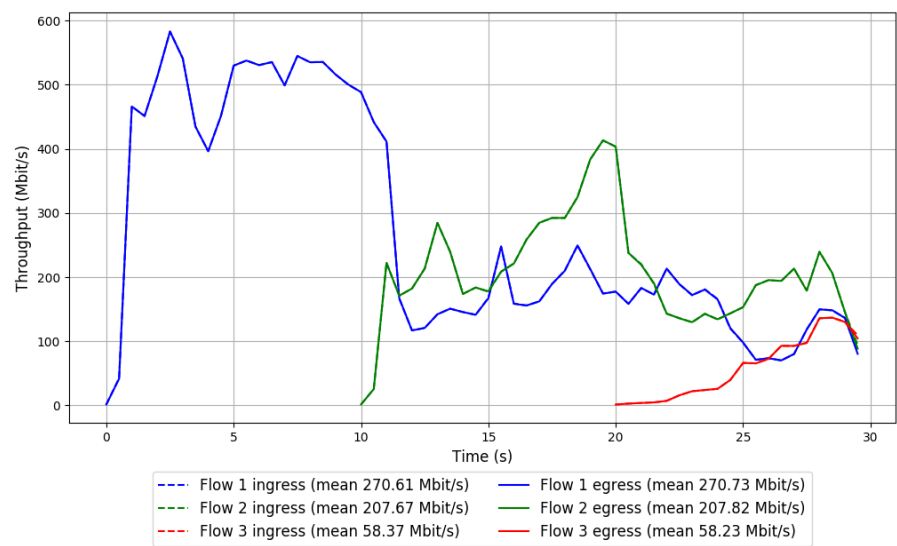


Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 15:45:59  
End at: 2018-02-13 15:46:29  
Local clock offset: -0.086 ms  
Remote clock offset: -6.905 ms

```
# Below is generated by plot.py at 2018-02-14 01:34:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 427.87 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 270.73 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 207.82 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 1.091 ms
Loss rate: 0.44%
```

Run 5: Report of Vivace-latency — Data Link

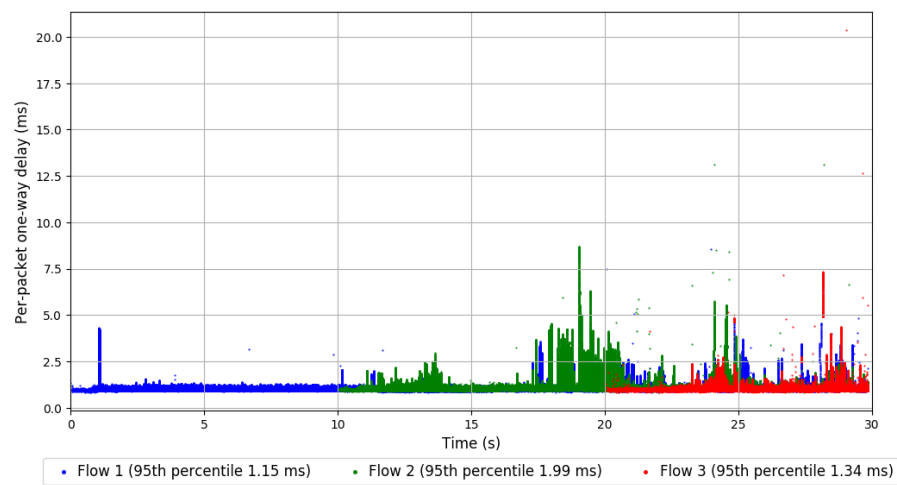
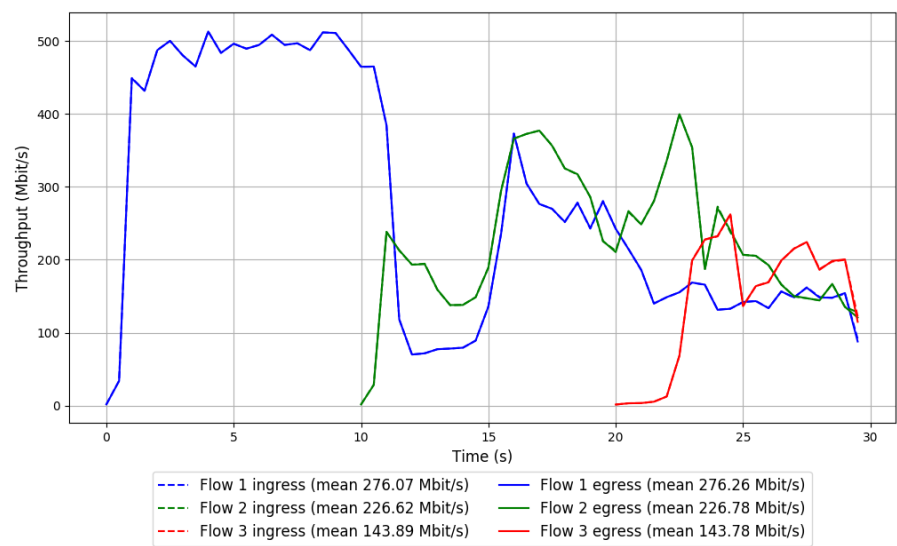


Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 16:15:05  
End at: 2018-02-13 16:15:35  
Local clock offset: -0.401 ms  
Remote clock offset: -6.966 ms

# Below is generated by plot.py at 2018-02-14 01:35:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 474.20 Mbit/s  
95th percentile per-packet one-way delay: 1.401 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 276.26 Mbit/s  
95th percentile per-packet one-way delay: 1.154 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 226.78 Mbit/s  
95th percentile per-packet one-way delay: 1.988 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 143.78 Mbit/s  
95th percentile per-packet one-way delay: 1.338 ms  
Loss rate: 0.26%

Run 6: Report of Vivace-latency — Data Link

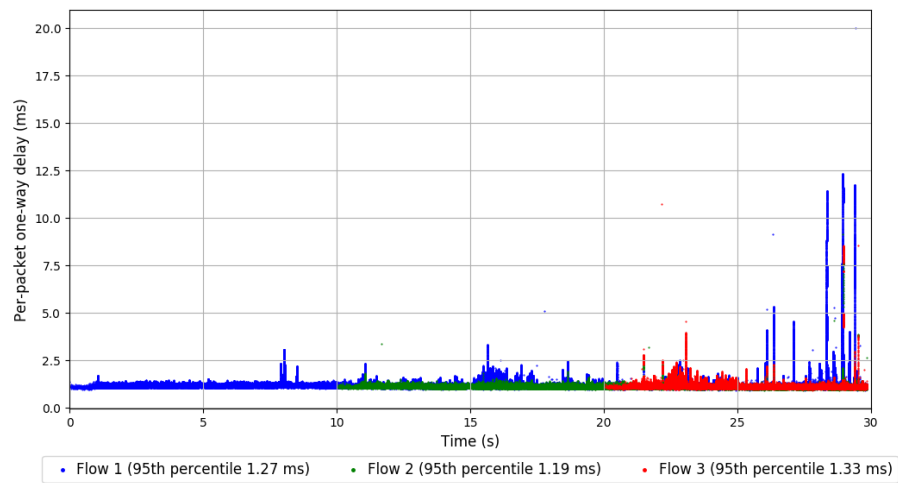
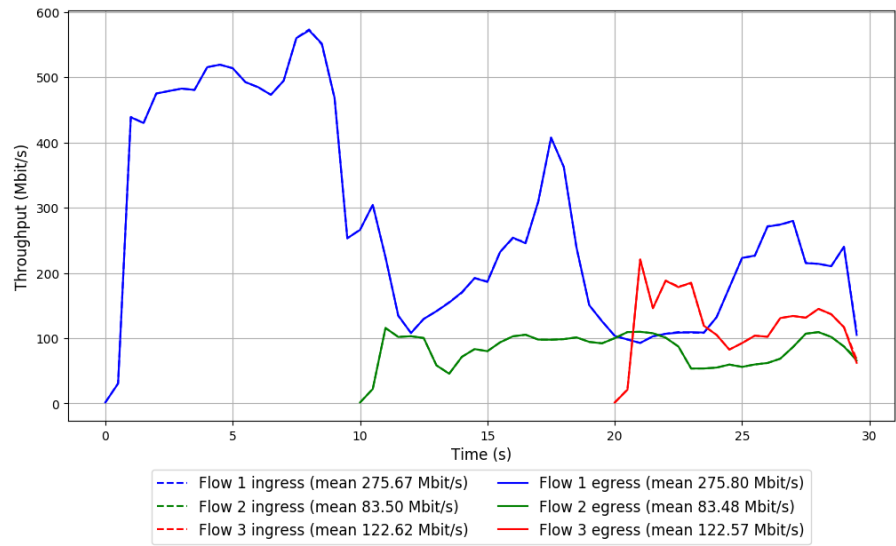


Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 16:44:09  
End at: 2018-02-13 16:44:39  
Local clock offset: -0.548 ms  
Remote clock offset: -5.646 ms

# Below is generated by plot.py at 2018-02-14 01:36:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 371.47 Mbit/s  
95th percentile per-packet one-way delay: 1.263 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 275.80 Mbit/s  
95th percentile per-packet one-way delay: 1.271 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 83.48 Mbit/s  
95th percentile per-packet one-way delay: 1.194 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 122.57 Mbit/s  
95th percentile per-packet one-way delay: 1.329 ms  
Loss rate: 0.23%

# Run 7: Report of Vivace-latency — Data Link

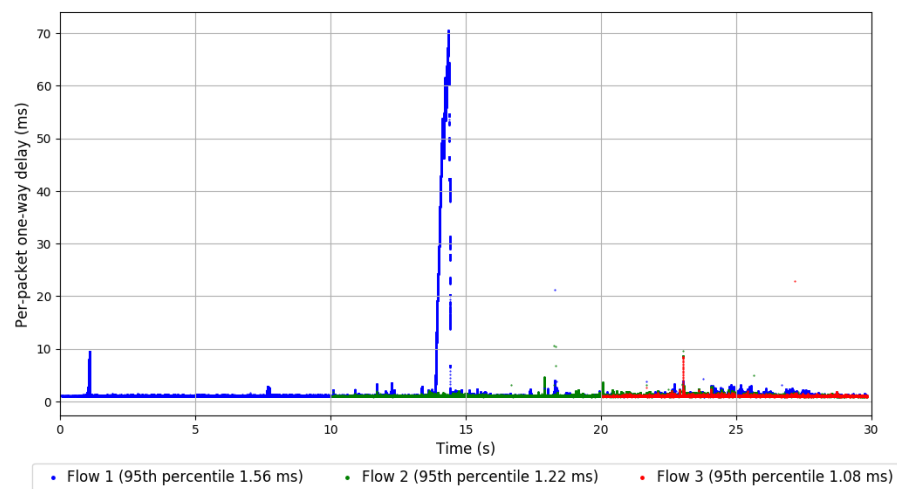
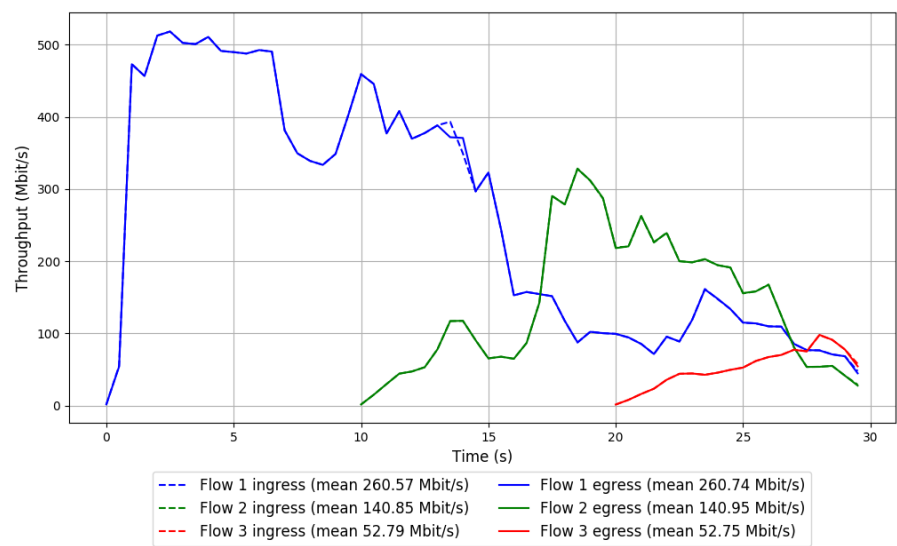


Run 8: Statistics of Vivace-latency

Start at: 2018-02-13 17:13:01  
End at: 2018-02-13 17:13:31  
Local clock offset: 2.818 ms  
Remote clock offset: -4.619 ms

# Below is generated by plot.py at 2018-02-14 01:37:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 371.65 Mbit/s  
95th percentile per-packet one-way delay: 1.346 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 260.74 Mbit/s  
95th percentile per-packet one-way delay: 1.556 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 140.95 Mbit/s  
95th percentile per-packet one-way delay: 1.217 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 52.75 Mbit/s  
95th percentile per-packet one-way delay: 1.083 ms  
Loss rate: 0.34%

Run 8: Report of Vivace-latency — Data Link

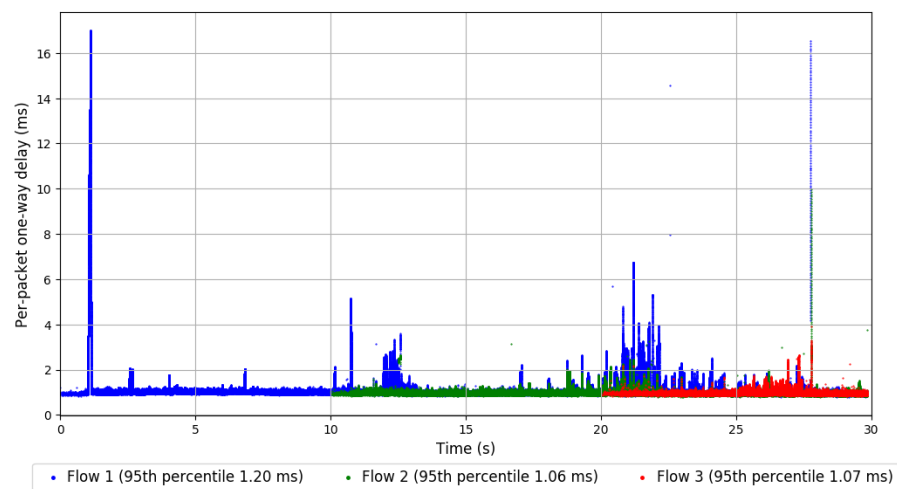
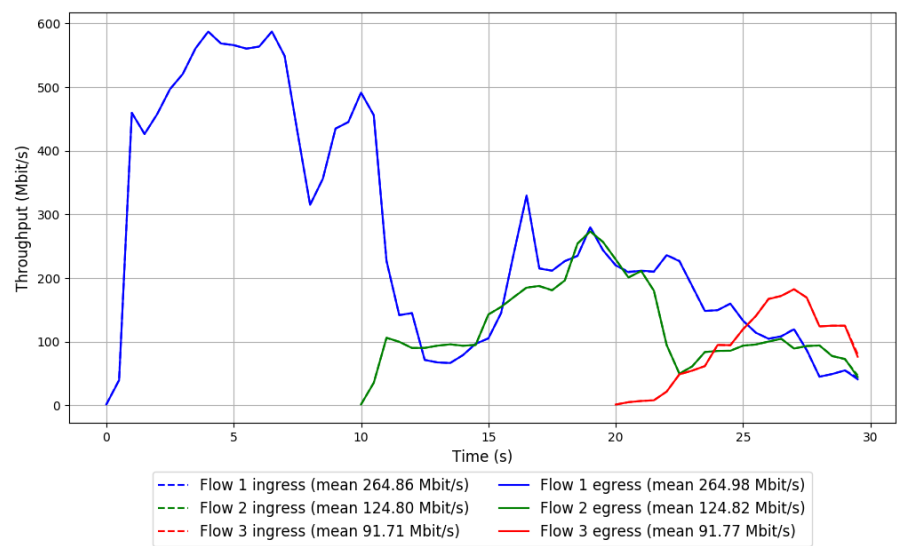


Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 17:42:05  
End at: 2018-02-13 17:42:35  
Local clock offset: 3.804 ms  
Remote clock offset: -4.662 ms

# Below is generated by plot.py at 2018-02-14 01:38:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 378.06 Mbit/s  
95th percentile per-packet one-way delay: 1.147 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 264.98 Mbit/s  
95th percentile per-packet one-way delay: 1.198 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 124.82 Mbit/s  
95th percentile per-packet one-way delay: 1.061 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 91.77 Mbit/s  
95th percentile per-packet one-way delay: 1.073 ms  
Loss rate: 0.24%

Run 9: Report of Vivace-latency — Data Link

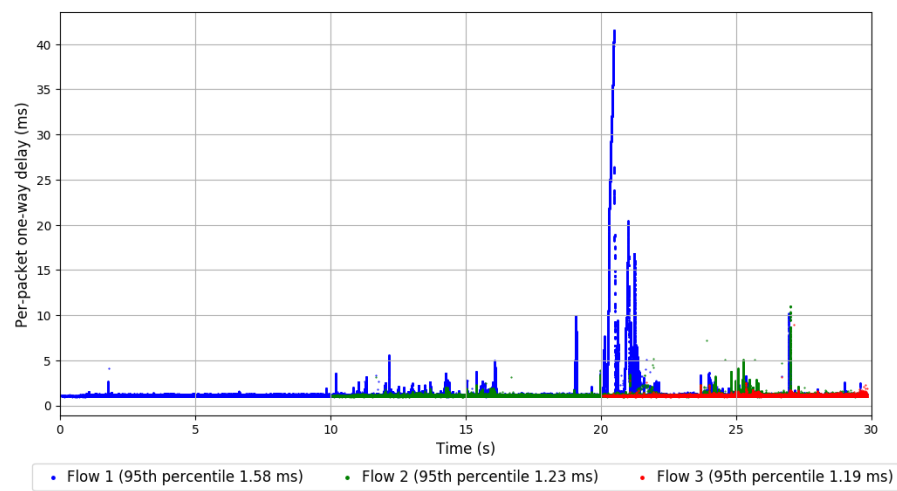
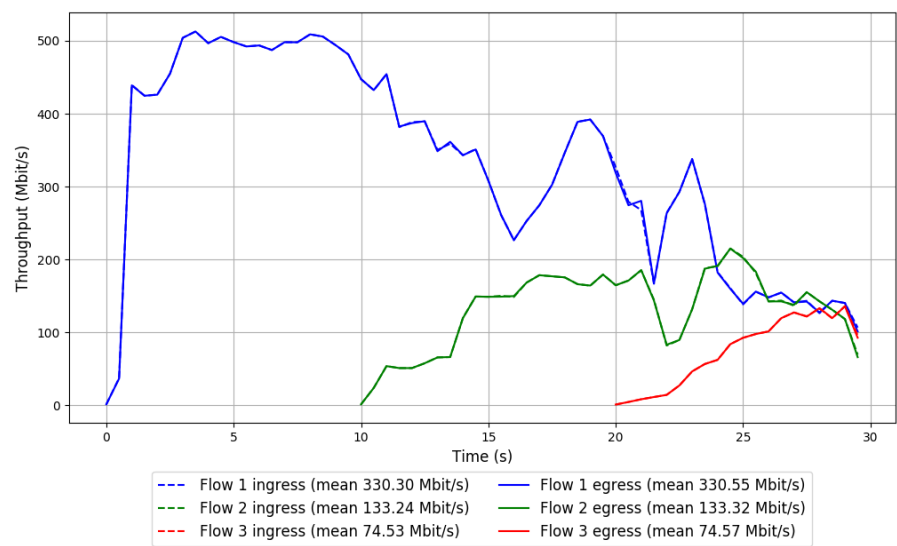


Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 18:11:15  
End at: 2018-02-13 18:11:45  
Local clock offset: -0.298 ms  
Remote clock offset: -5.268 ms

# Below is generated by plot.py at 2018-02-14 01:38:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 443.59 Mbit/s  
95th percentile per-packet one-way delay: 1.383 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 330.55 Mbit/s  
95th percentile per-packet one-way delay: 1.580 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 133.32 Mbit/s  
95th percentile per-packet one-way delay: 1.227 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 74.57 Mbit/s  
95th percentile per-packet one-way delay: 1.187 ms  
Loss rate: 0.26%

Run 10: Report of Vivace-latency — Data Link

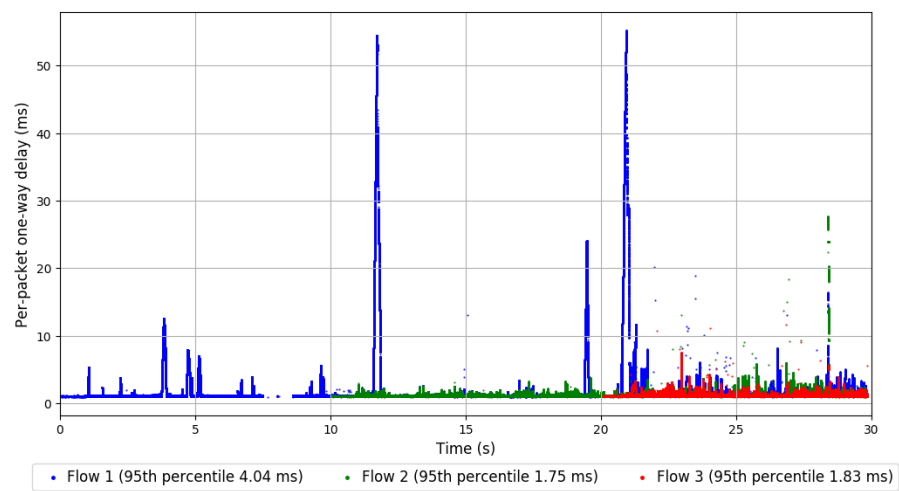
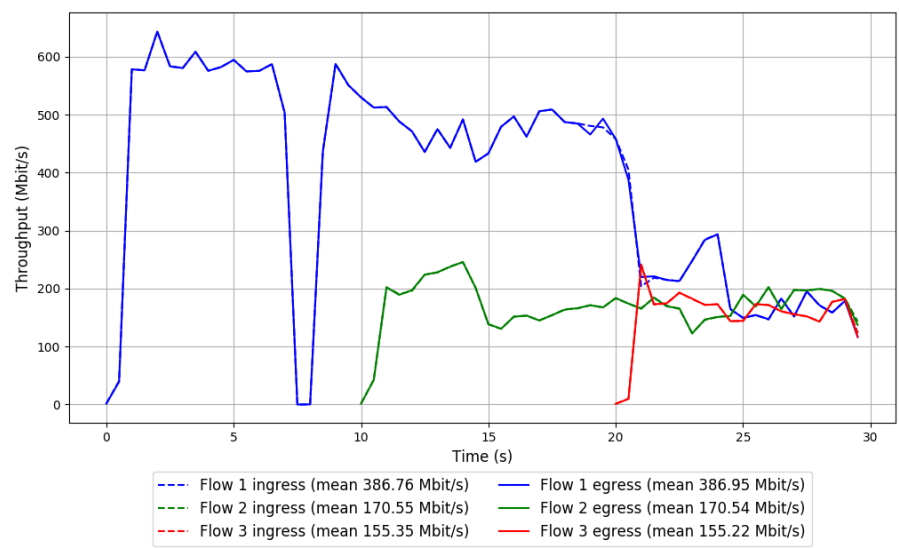


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 13:51:16
End at: 2018-02-13 13:51:46
Local clock offset: 0.001 ms
Remote clock offset: -6.192 ms

# Below is generated by plot.py at 2018-02-14 01:41:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 551.09 Mbit/s
95th percentile per-packet one-way delay: 2.737 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 386.95 Mbit/s
95th percentile per-packet one-way delay: 4.036 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 170.54 Mbit/s
95th percentile per-packet one-way delay: 1.754 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 155.22 Mbit/s
95th percentile per-packet one-way delay: 1.832 ms
Loss rate: 0.22%
```

Run 1: Report of Vivace-loss — Data Link

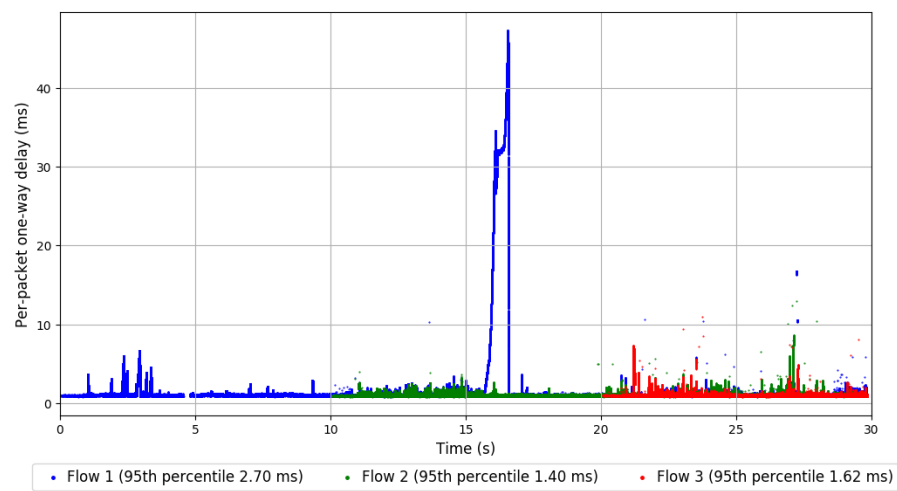
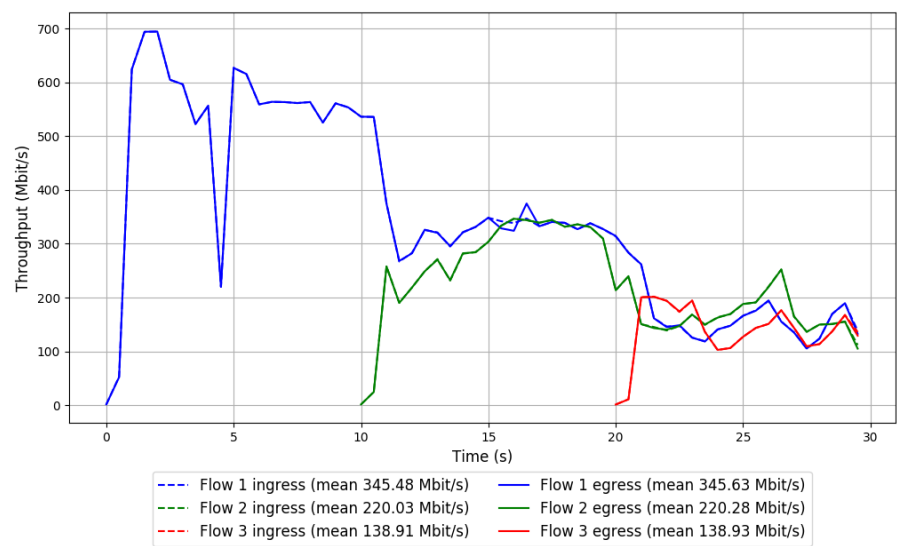


Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 14:20:17  
End at: 2018-02-13 14:20:47  
Local clock offset: 0.137 ms  
Remote clock offset: -5.386 ms

# Below is generated by plot.py at 2018-02-14 01:41:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 537.49 Mbit/s  
95th percentile per-packet one-way delay: 1.986 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 345.63 Mbit/s  
95th percentile per-packet one-way delay: 2.704 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 220.28 Mbit/s  
95th percentile per-packet one-way delay: 1.404 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 138.93 Mbit/s  
95th percentile per-packet one-way delay: 1.616 ms  
Loss rate: 0.25%

Run 2: Report of Vivace-loss — Data Link

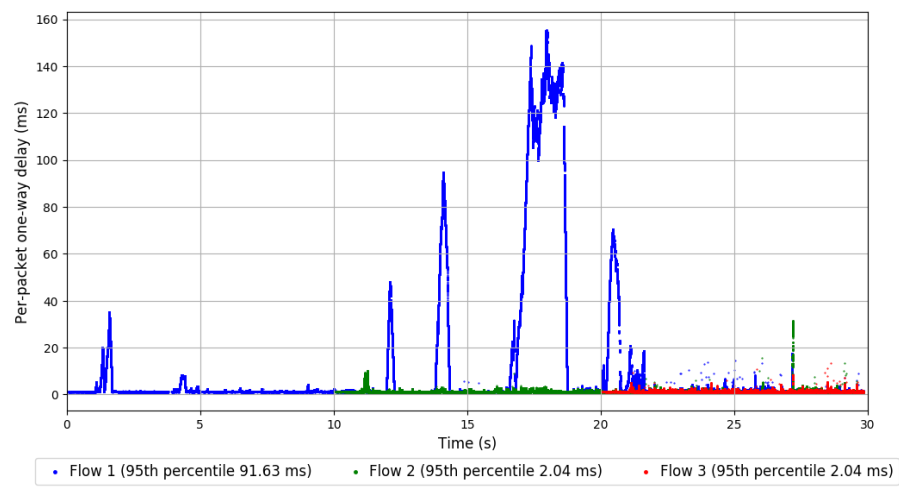
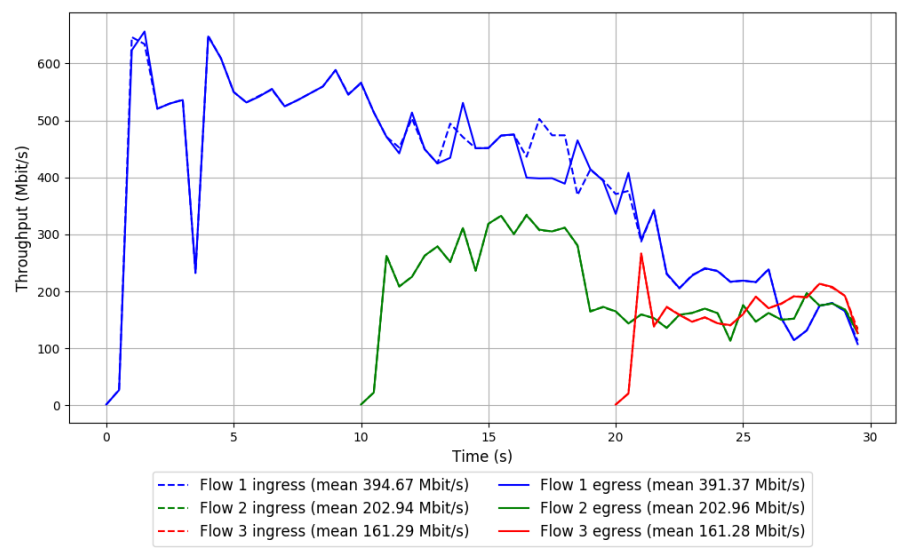


Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 14:49:26  
End at: 2018-02-13 14:49:56  
Local clock offset: 0.427 ms  
Remote clock offset: -4.861 ms

# Below is generated by plot.py at 2018-02-14 01:43:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 579.21 Mbit/s  
95th percentile per-packet one-way delay: 54.979 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 391.37 Mbit/s  
95th percentile per-packet one-way delay: 91.633 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 202.96 Mbit/s  
95th percentile per-packet one-way delay: 2.035 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 161.28 Mbit/s  
95th percentile per-packet one-way delay: 2.038 ms  
Loss rate: 0.20%

Run 3: Report of Vivace-loss — Data Link

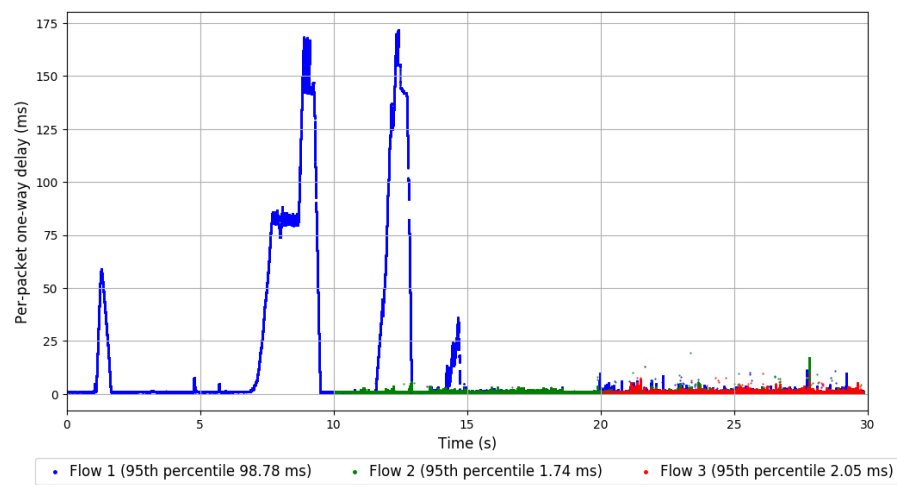
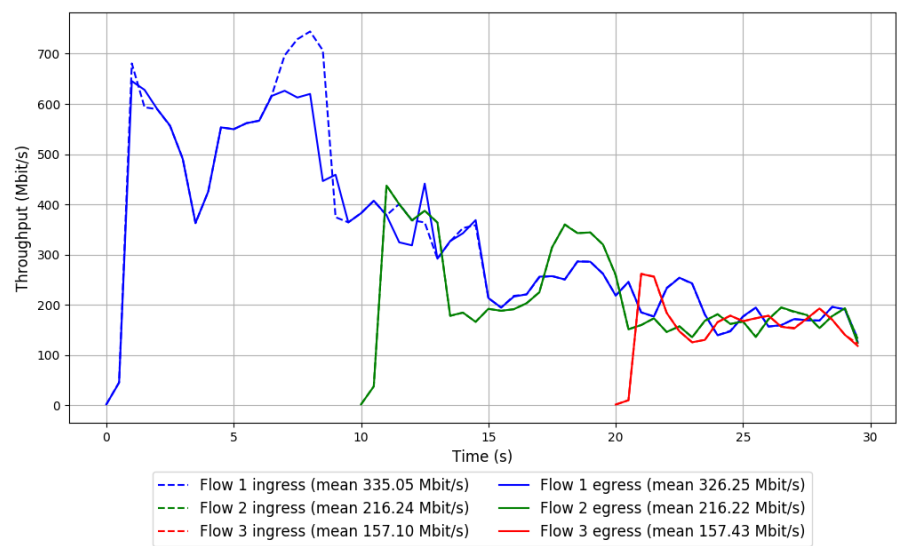


Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 15:18:37  
End at: 2018-02-13 15:19:07  
Local clock offset: 0.22 ms  
Remote clock offset: -5.829 ms

# Below is generated by plot.py at 2018-02-14 01:43:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 521.49 Mbit/s  
95th percentile per-packet one-way delay: 82.674 ms  
Loss rate: 1.76%  
-- Flow 1:  
Average throughput: 326.25 Mbit/s  
95th percentile per-packet one-way delay: 98.785 ms  
Loss rate: 2.73%  
-- Flow 2:  
Average throughput: 216.22 Mbit/s  
95th percentile per-packet one-way delay: 1.741 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 157.43 Mbit/s  
95th percentile per-packet one-way delay: 2.046 ms  
Loss rate: 0.15%

Run 4: Report of Vivace-loss — Data Link

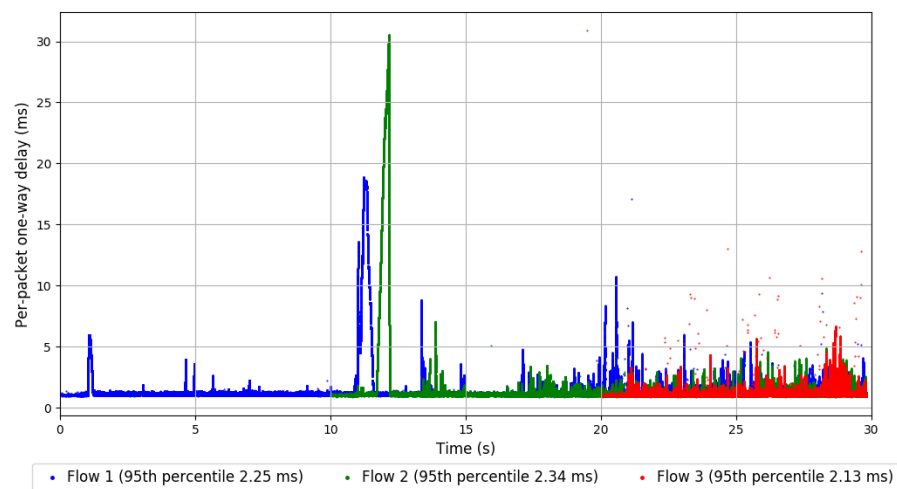
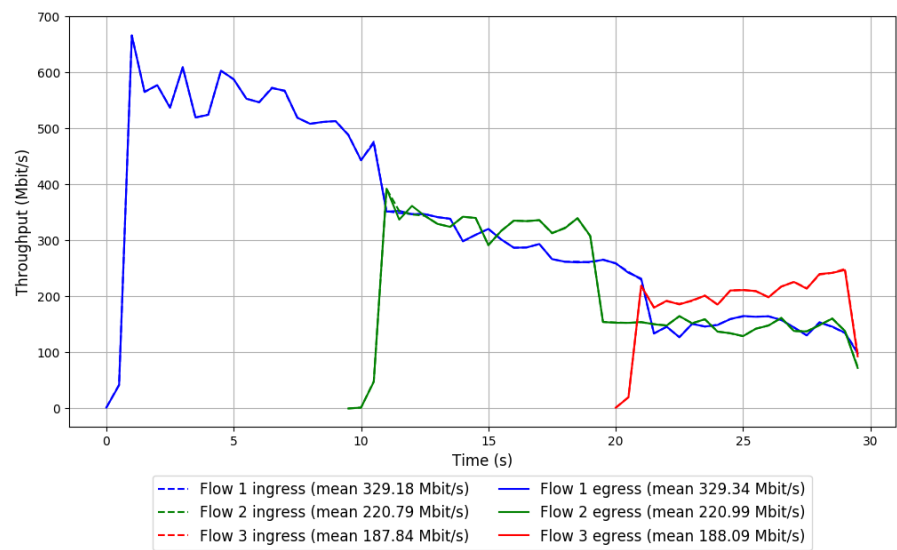


Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 15:47:40  
End at: 2018-02-13 15:48:10  
Local clock offset: -0.113 ms  
Remote clock offset: -7.014 ms

# Below is generated by plot.py at 2018-02-14 01:44:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 538.14 Mbit/s  
95th percentile per-packet one-way delay: 2.234 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 329.34 Mbit/s  
95th percentile per-packet one-way delay: 2.249 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 220.99 Mbit/s  
95th percentile per-packet one-way delay: 2.338 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 188.09 Mbit/s  
95th percentile per-packet one-way delay: 2.130 ms  
Loss rate: 0.16%

Run 5: Report of Vivace-loss — Data Link

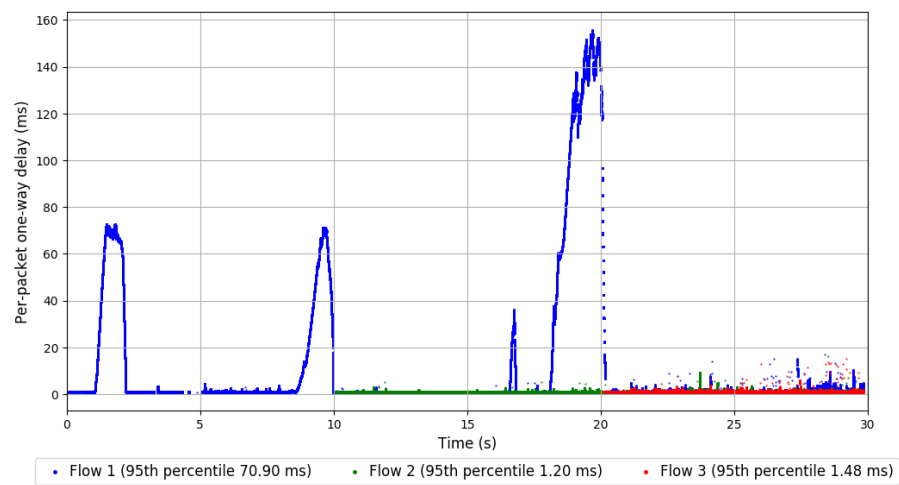
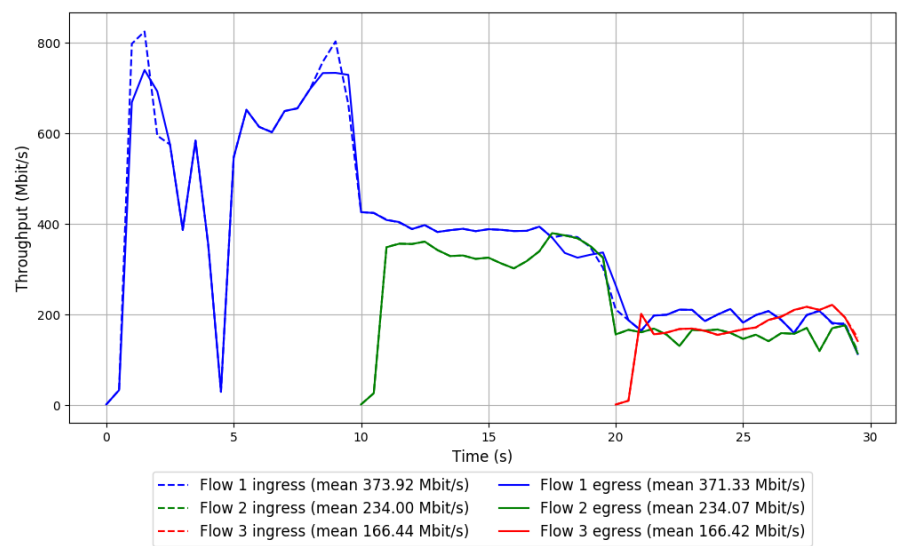


Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 16:16:49  
End at: 2018-02-13 16:17:19  
Local clock offset: -0.387 ms  
Remote clock offset: -6.901 ms

# Below is generated by plot.py at 2018-02-14 01:45:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 581.43 Mbit/s  
95th percentile per-packet one-way delay: 67.895 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 371.33 Mbit/s  
95th percentile per-packet one-way delay: 70.903 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 234.07 Mbit/s  
95th percentile per-packet one-way delay: 1.198 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 166.42 Mbit/s  
95th percentile per-packet one-way delay: 1.475 ms  
Loss rate: 0.22%

Run 6: Report of Vivace-loss — Data Link

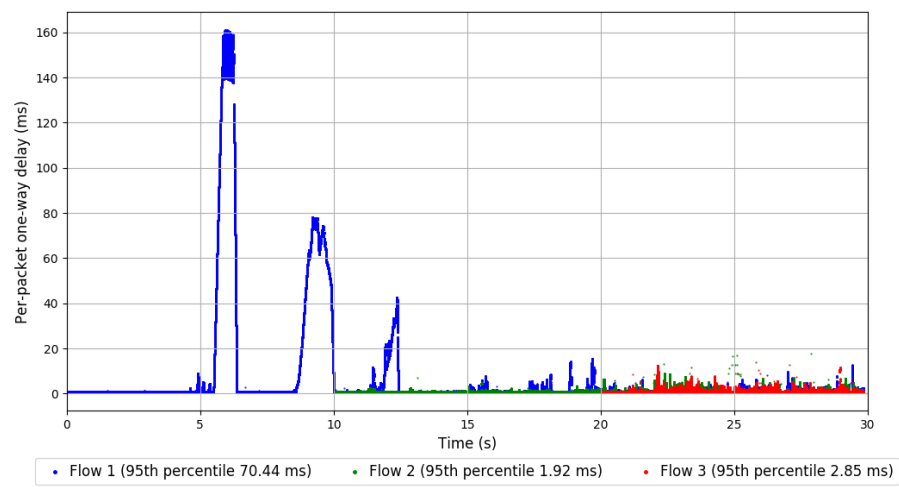
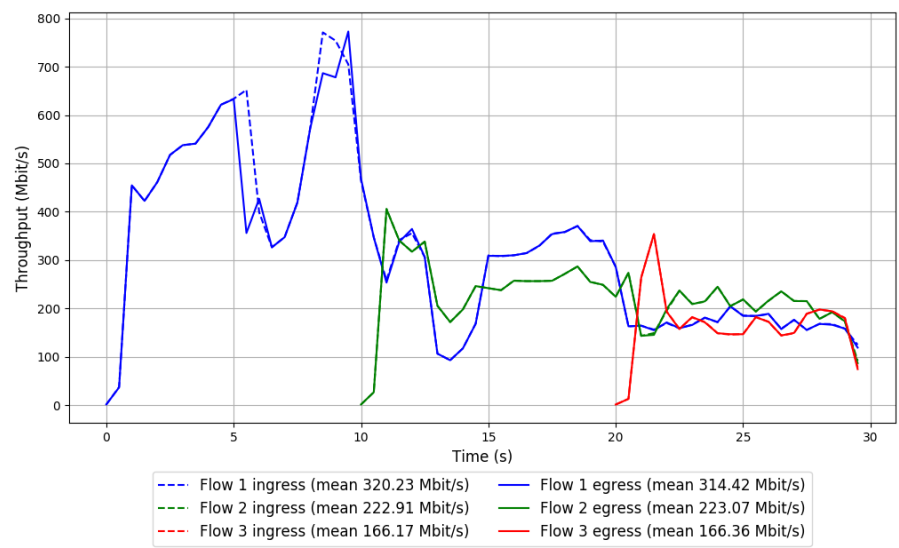


Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 16:45:47  
End at: 2018-02-13 16:46:17  
Local clock offset: -0.365 ms  
Remote clock offset: -5.439 ms

# Below is generated by plot.py at 2018-02-14 01:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 517.22 Mbit/s  
95th percentile per-packet one-way delay: 57.401 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 314.42 Mbit/s  
95th percentile per-packet one-way delay: 70.435 ms  
Loss rate: 1.91%  
-- Flow 2:  
Average throughput: 223.07 Mbit/s  
95th percentile per-packet one-way delay: 1.917 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 166.36 Mbit/s  
95th percentile per-packet one-way delay: 2.852 ms  
Loss rate: 0.13%

Run 7: Report of Vivace-loss — Data Link

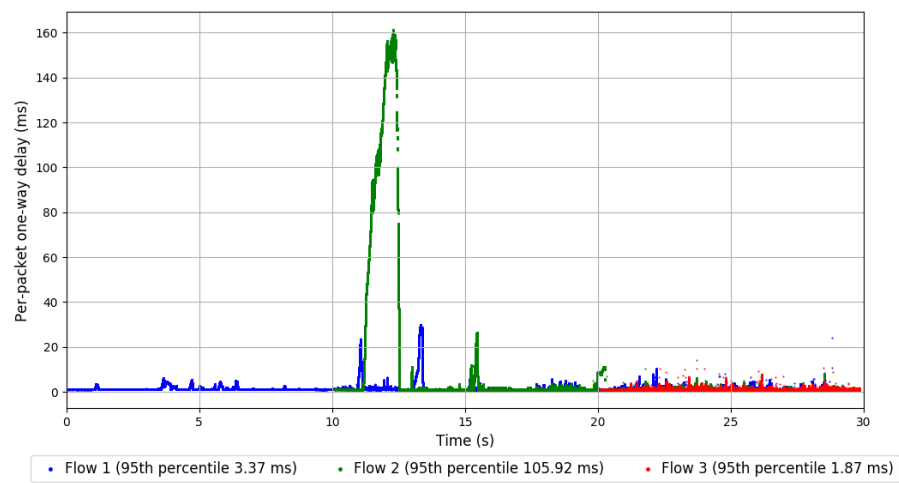
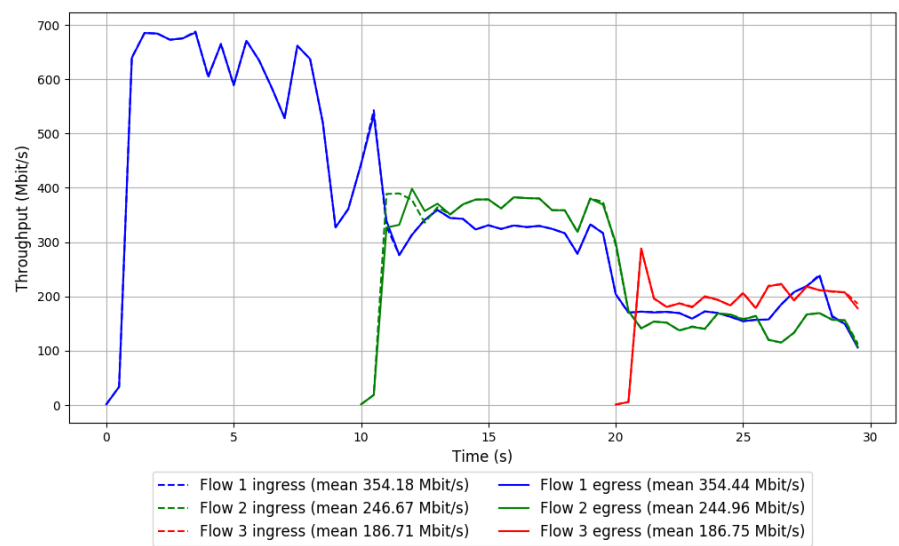


Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 17:14:39  
End at: 2018-02-13 17:15:09  
Local clock offset: 2.806 ms  
Remote clock offset: -4.742 ms

# Below is generated by plot.py at 2018-02-14 01:47:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 578.31 Mbit/s  
95th percentile per-packet one-way delay: 5.814 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 354.44 Mbit/s  
95th percentile per-packet one-way delay: 3.373 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 244.96 Mbit/s  
95th percentile per-packet one-way delay: 105.915 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 186.75 Mbit/s  
95th percentile per-packet one-way delay: 1.870 ms  
Loss rate: 0.25%

Run 8: Report of Vivace-loss — Data Link

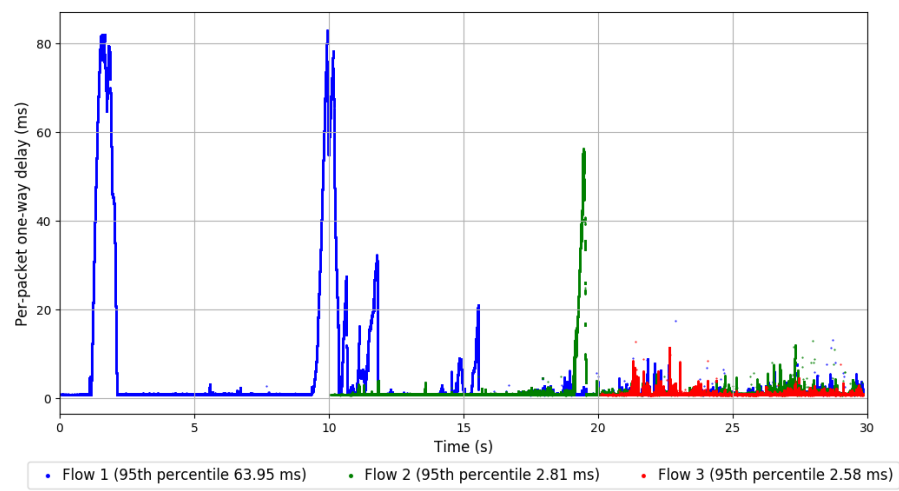
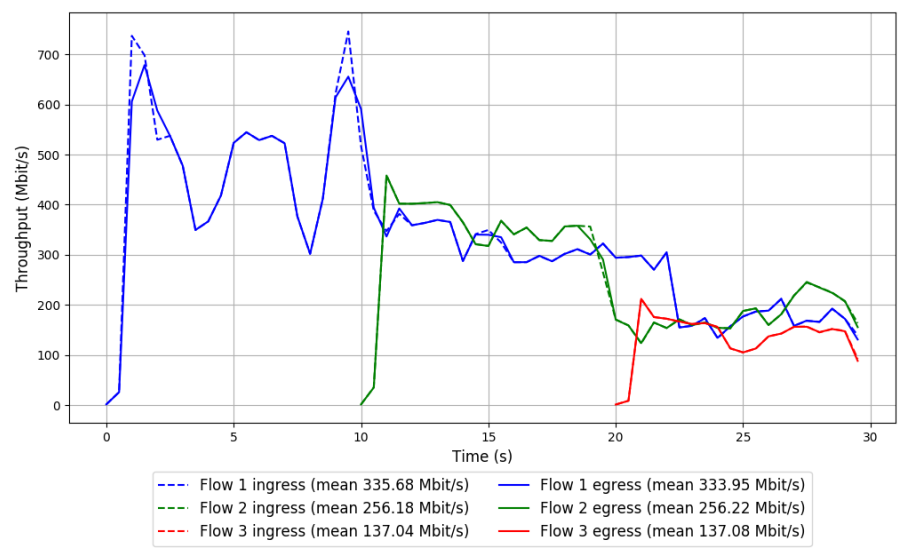


Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 17:43:43  
End at: 2018-02-13 17:44:13  
Local clock offset: 3.879 ms  
Remote clock offset: -4.713 ms

# Below is generated by plot.py at 2018-02-14 01:49:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 548.80 Mbit/s  
95th percentile per-packet one-way delay: 43.497 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 333.95 Mbit/s  
95th percentile per-packet one-way delay: 63.946 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 256.22 Mbit/s  
95th percentile per-packet one-way delay: 2.806 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 137.08 Mbit/s  
95th percentile per-packet one-way delay: 2.583 ms  
Loss rate: 0.19%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 18:12:57

End at: 2018-02-13 18:13:27

Local clock offset: -0.357 ms

Remote clock offset: -5.26 ms

# Below is generated by plot.py at 2018-02-14 01:50:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 590.44 Mbit/s

95th percentile per-packet one-way delay: 14.651 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 392.00 Mbit/s

95th percentile per-packet one-way delay: 29.043 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 208.20 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.05%

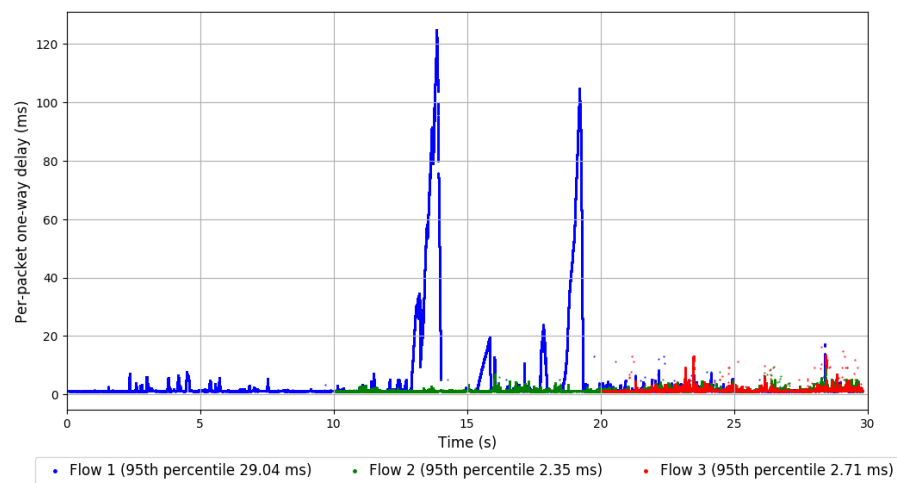
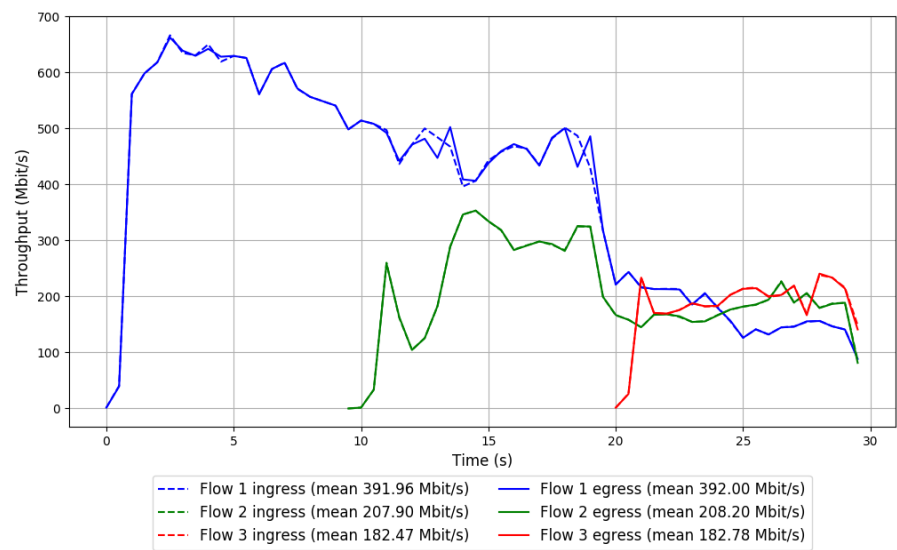
-- Flow 3:

Average throughput: 182.78 Mbit/s

95th percentile per-packet one-way delay: 2.709 ms

Loss rate: 0.26%

Run 10: Report of Vivace-loss — Data Link

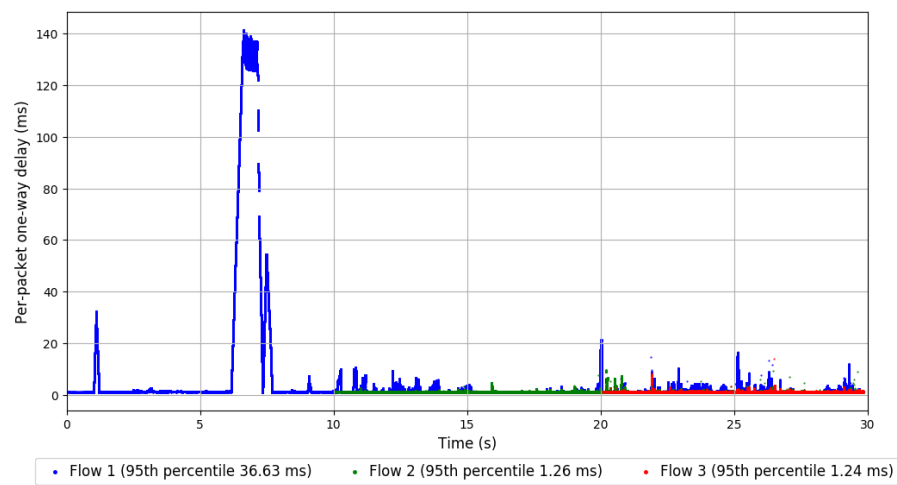
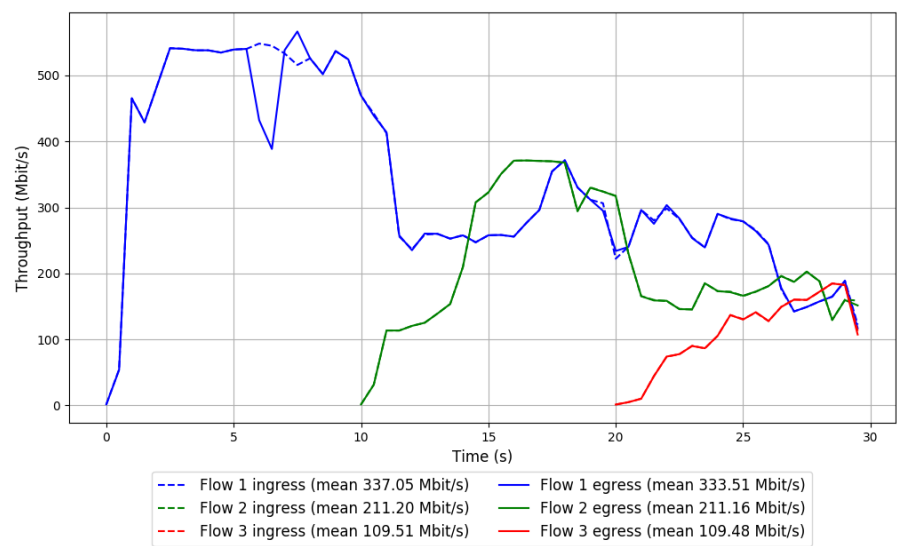


Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 13:40:23  
End at: 2018-02-13 13:40:53  
Local clock offset: -0.03 ms  
Remote clock offset: -6.786 ms

# Below is generated by plot.py at 2018-02-14 01:50:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 509.71 Mbit/s  
95th percentile per-packet one-way delay: 11.116 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 333.51 Mbit/s  
95th percentile per-packet one-way delay: 36.628 ms  
Loss rate: 1.11%  
-- Flow 2:  
Average throughput: 211.16 Mbit/s  
95th percentile per-packet one-way delay: 1.258 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 109.48 Mbit/s  
95th percentile per-packet one-way delay: 1.236 ms  
Loss rate: 0.28%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 14:09:30

End at: 2018-02-13 14:10:00

Local clock offset: 0.053 ms

Remote clock offset: -5.62 ms

# Below is generated by plot.py at 2018-02-14 01:50:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 496.73 Mbit/s

95th percentile per-packet one-way delay: 4.070 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 337.86 Mbit/s

95th percentile per-packet one-way delay: 7.999 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 165.67 Mbit/s

95th percentile per-packet one-way delay: 2.648 ms

Loss rate: 0.09%

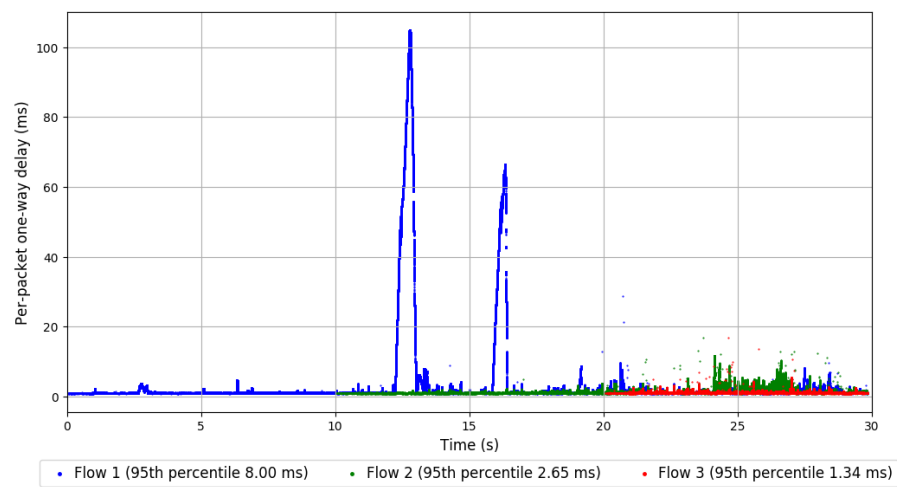
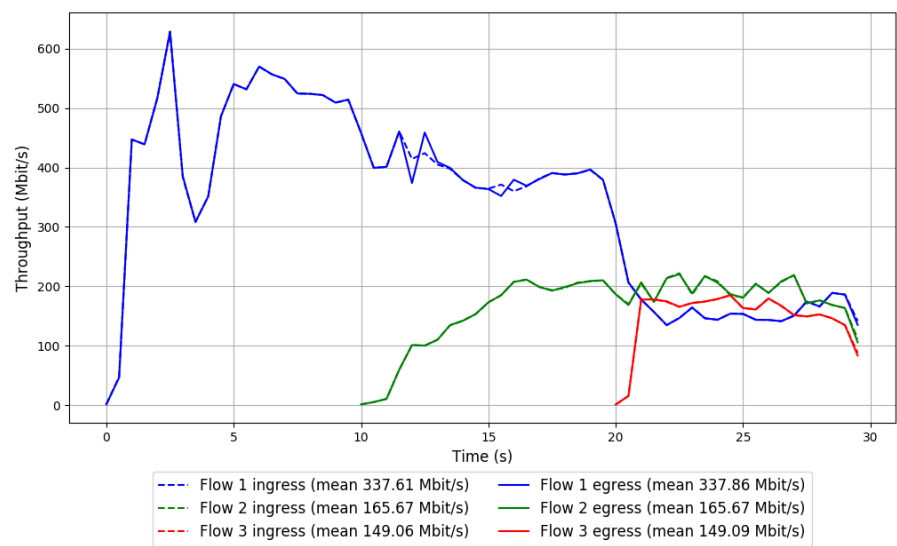
-- Flow 3:

Average throughput: 149.09 Mbit/s

95th percentile per-packet one-way delay: 1.338 ms

Loss rate: 0.16%

Run 2: Report of Vivace-LTE — Data Link

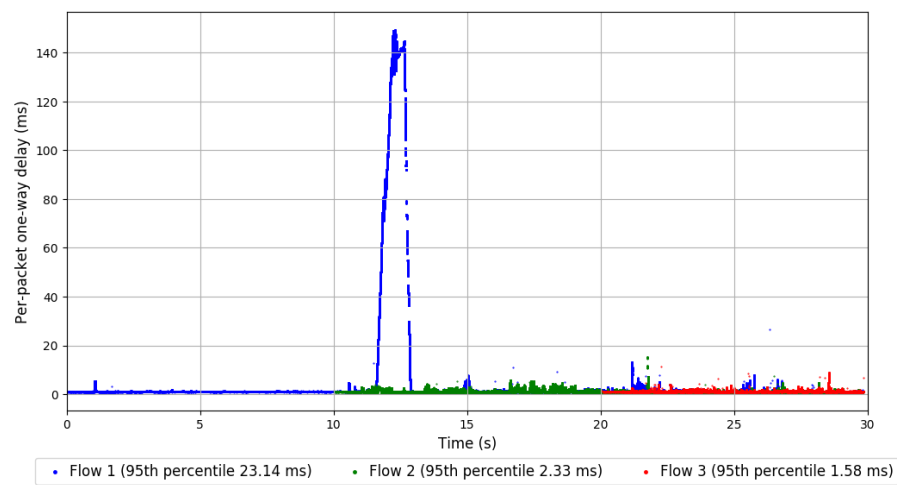
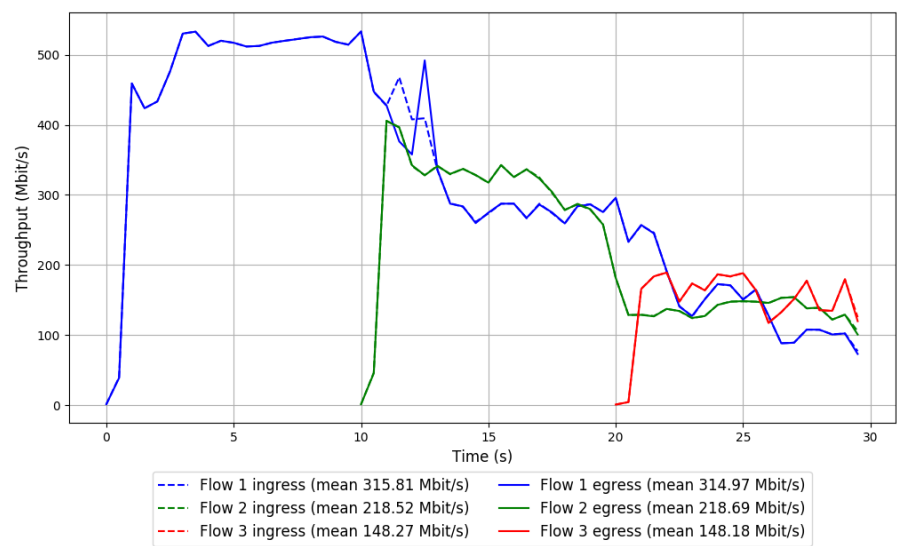


Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 14:38:30  
End at: 2018-02-13 14:39:00  
Local clock offset: 0.272 ms  
Remote clock offset: -4.995 ms

# Below is generated by plot.py at 2018-02-14 01:52:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 508.81 Mbit/s  
95th percentile per-packet one-way delay: 2.764 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 314.97 Mbit/s  
95th percentile per-packet one-way delay: 23.144 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 218.69 Mbit/s  
95th percentile per-packet one-way delay: 2.334 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 148.18 Mbit/s  
95th percentile per-packet one-way delay: 1.579 ms  
Loss rate: 0.20%

Run 3: Report of Vivace-LTE — Data Link

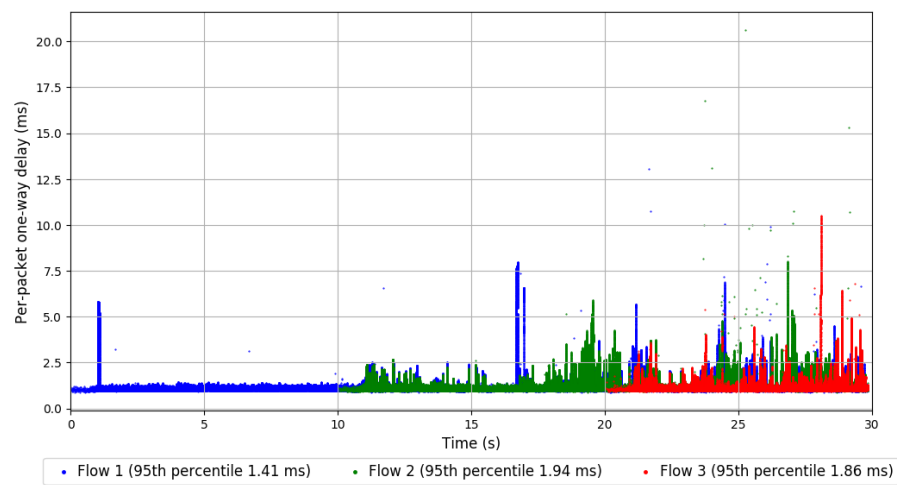
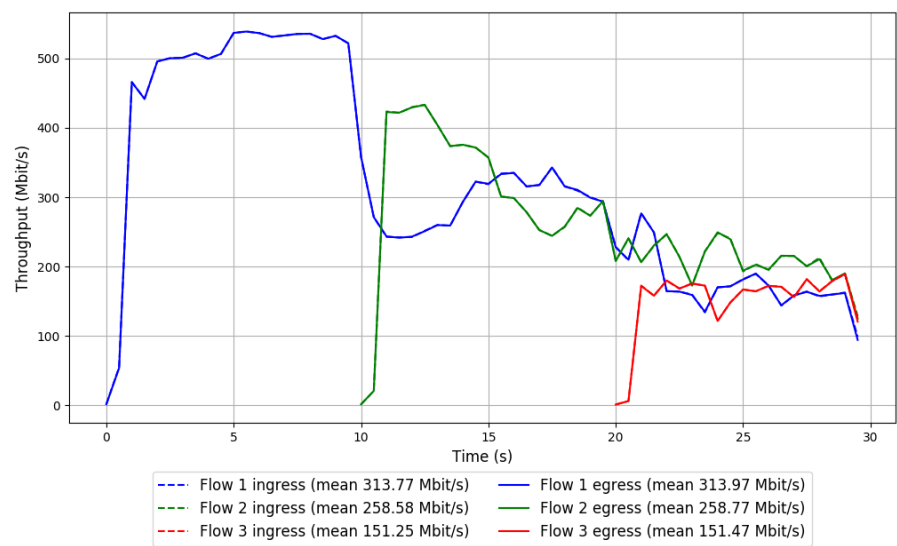


Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 15:07:40  
End at: 2018-02-13 15:08:10  
Local clock offset: 0.333 ms  
Remote clock offset: -5.744 ms

# Below is generated by plot.py at 2018-02-14 01:53:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 535.43 Mbit/s  
95th percentile per-packet one-way delay: 1.661 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 313.97 Mbit/s  
95th percentile per-packet one-way delay: 1.413 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 258.77 Mbit/s  
95th percentile per-packet one-way delay: 1.942 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 151.47 Mbit/s  
95th percentile per-packet one-way delay: 1.857 ms  
Loss rate: 0.14%

Run 4: Report of Vivace-LTE — Data Link

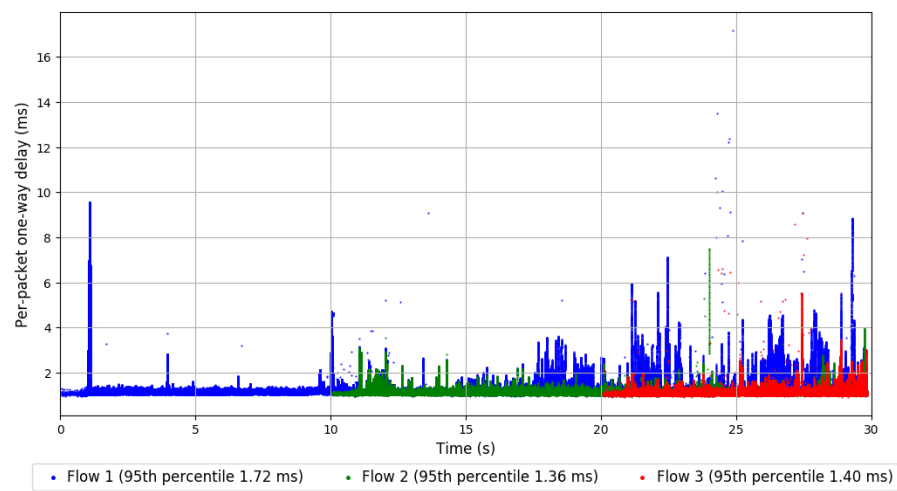
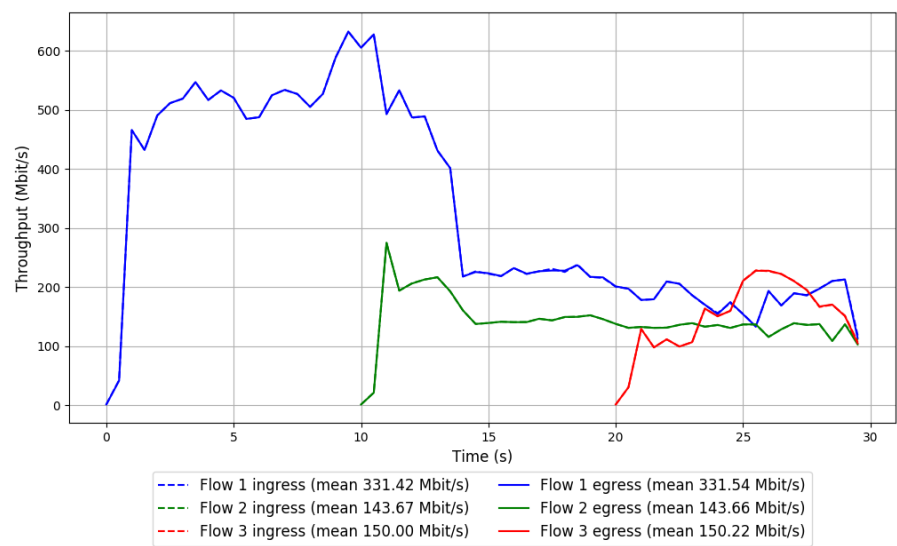


Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 15:36:46  
End at: 2018-02-13 15:37:16  
Local clock offset: 0.25 ms  
Remote clock offset: -6.666 ms

# Below is generated by plot.py at 2018-02-14 01:53:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 476.25 Mbit/s  
95th percentile per-packet one-way delay: 1.598 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 331.54 Mbit/s  
95th percentile per-packet one-way delay: 1.720 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 143.66 Mbit/s  
95th percentile per-packet one-way delay: 1.363 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 150.22 Mbit/s  
95th percentile per-packet one-way delay: 1.402 ms  
Loss rate: 0.09%

Run 5: Report of Vivace-LTE — Data Link

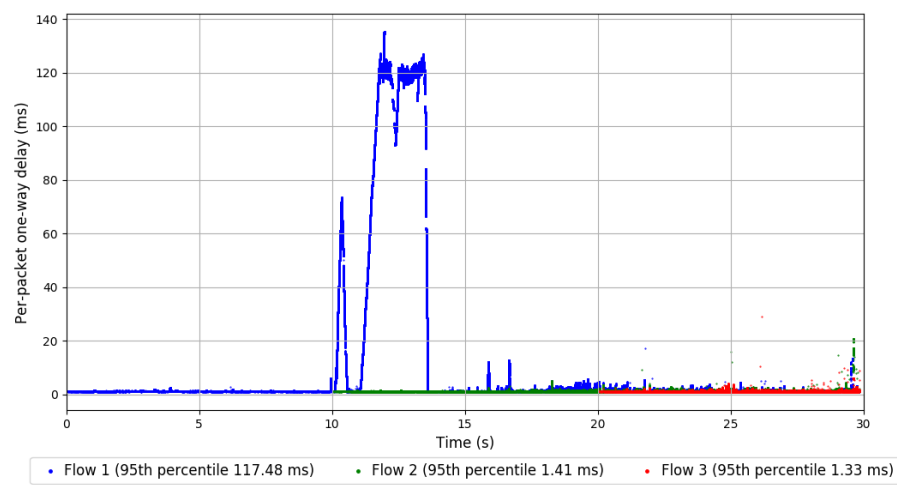
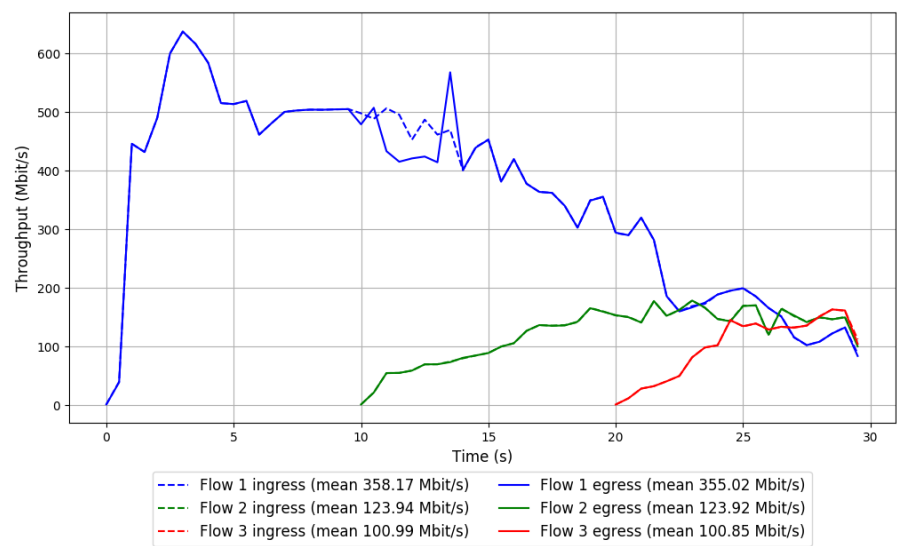


Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 16:05:53  
End at: 2018-02-13 16:06:23  
Local clock offset: -0.228 ms  
Remote clock offset: -6.957 ms

# Below is generated by plot.py at 2018-02-14 01:54:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 470.35 Mbit/s  
95th percentile per-packet one-way delay: 107.090 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 355.02 Mbit/s  
95th percentile per-packet one-way delay: 117.478 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 123.92 Mbit/s  
95th percentile per-packet one-way delay: 1.408 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 100.85 Mbit/s  
95th percentile per-packet one-way delay: 1.334 ms  
Loss rate: 0.38%

Run 6: Report of Vivace-LTE — Data Link

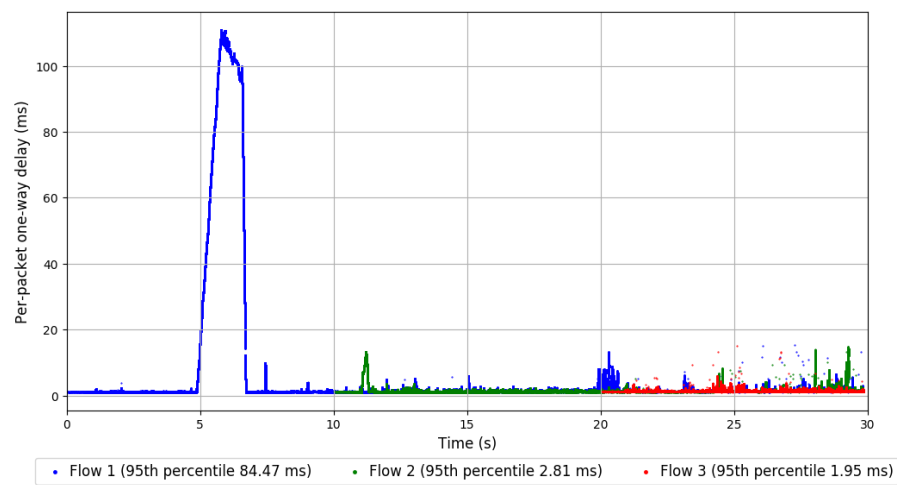
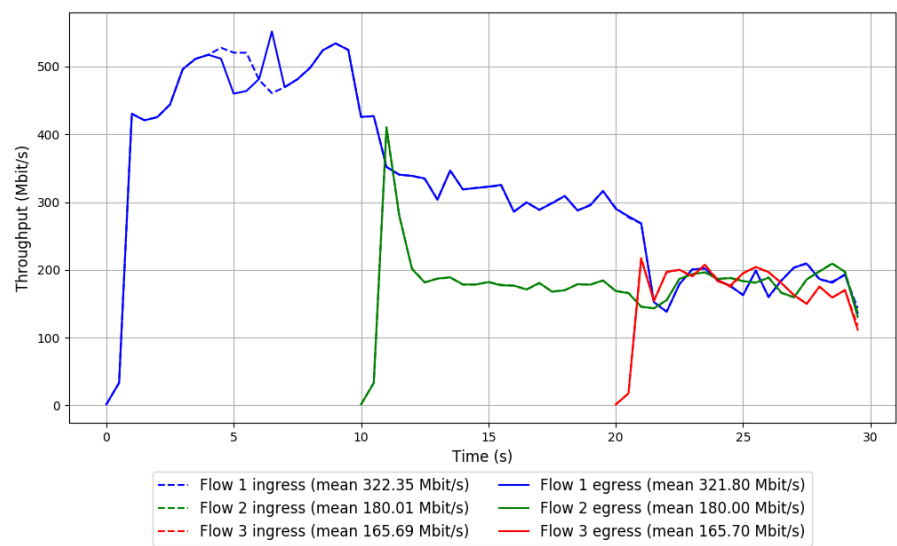


Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 16:34:57  
End at: 2018-02-13 16:35:27  
Local clock offset: -0.462 ms  
Remote clock offset: -6.858 ms

# Below is generated by plot.py at 2018-02-14 01:55:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 495.83 Mbit/s  
95th percentile per-packet one-way delay: 33.297 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 321.80 Mbit/s  
95th percentile per-packet one-way delay: 84.474 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 180.00 Mbit/s  
95th percentile per-packet one-way delay: 2.815 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 165.70 Mbit/s  
95th percentile per-packet one-way delay: 1.946 ms  
Loss rate: 0.19%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 17:03:48

End at: 2018-02-13 17:04:18

Local clock offset: 2.29 ms

Remote clock offset: -4.25 ms

# Below is generated by plot.py at 2018-02-14 01:55:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 519.20 Mbit/s

95th percentile per-packet one-way delay: 13.011 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 363.15 Mbit/s

95th percentile per-packet one-way delay: 51.357 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 176.31 Mbit/s

95th percentile per-packet one-way delay: 1.998 ms

Loss rate: 0.10%

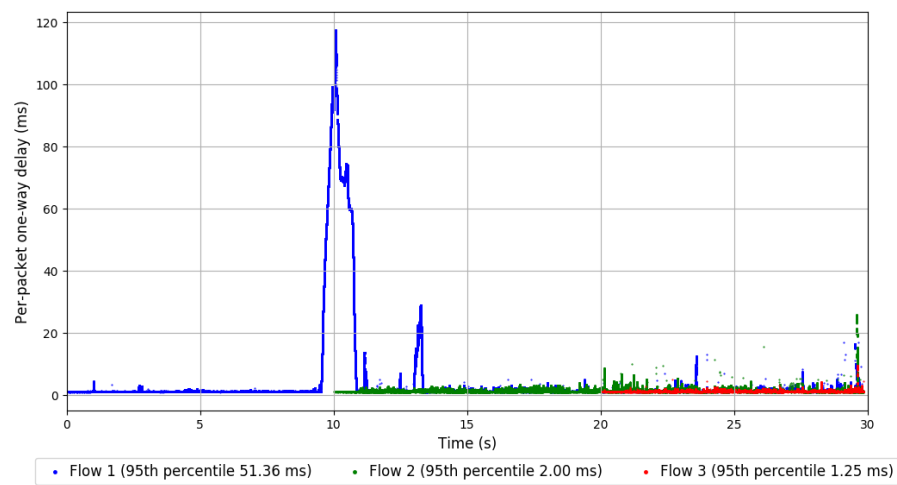
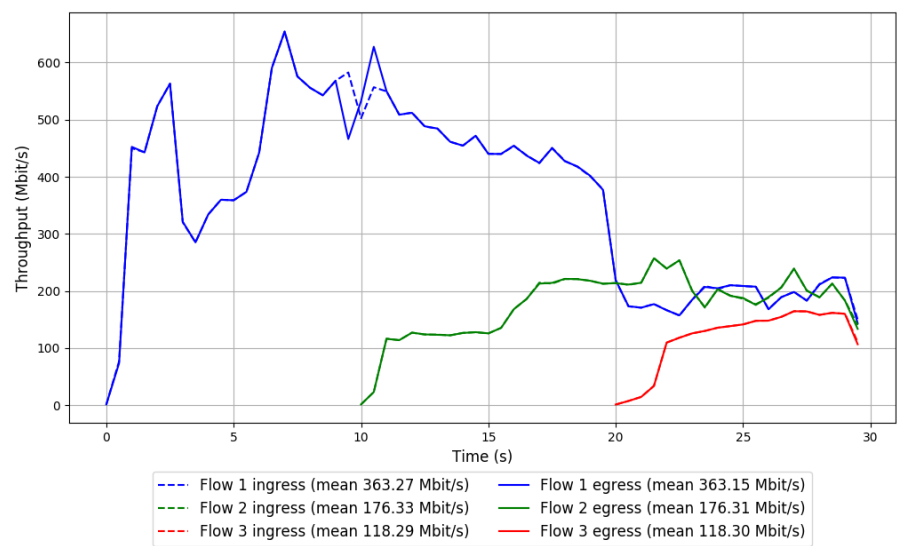
-- Flow 3:

Average throughput: 118.30 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 0.20%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 17:32:50

End at: 2018-02-13 17:33:20

Local clock offset: 3.591 ms

Remote clock offset: -4.89 ms

# Below is generated by plot.py at 2018-02-14 01:55:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 503.16 Mbit/s

95th percentile per-packet one-way delay: 12.881 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 334.25 Mbit/s

95th percentile per-packet one-way delay: 65.468 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 182.37 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.08%

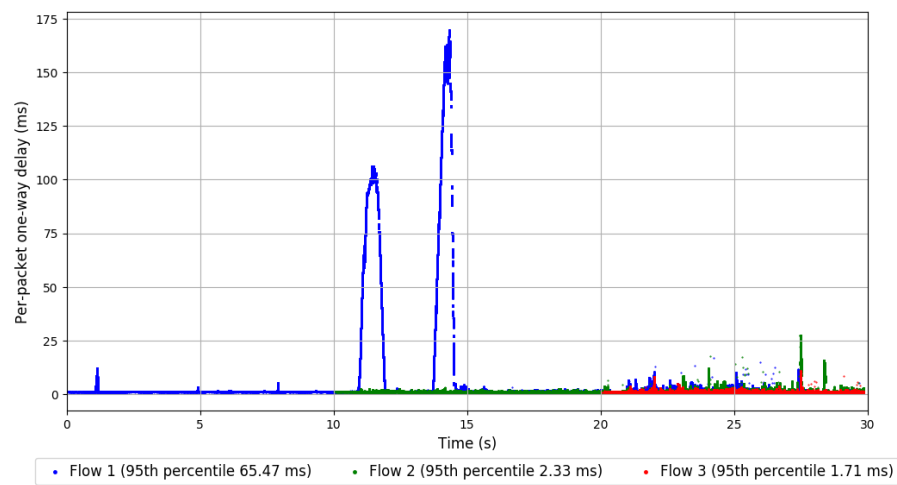
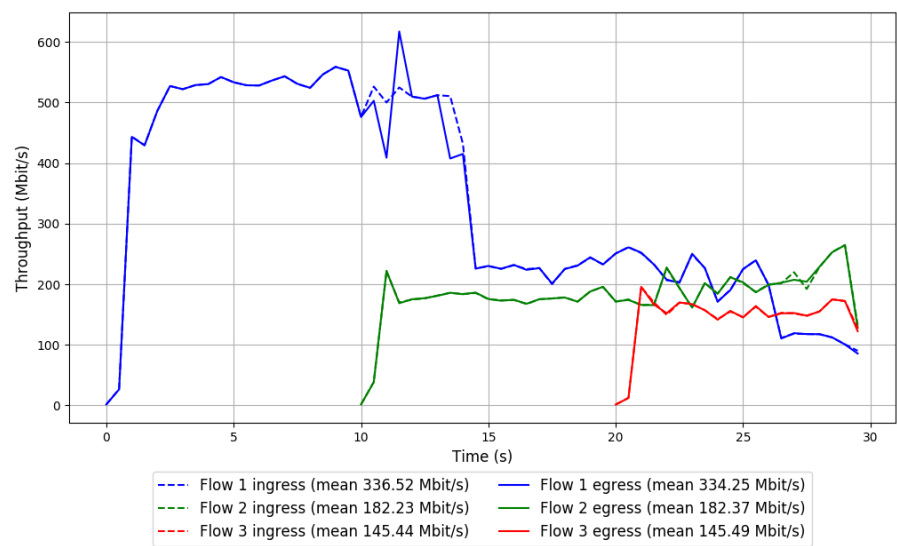
-- Flow 3:

Average throughput: 145.49 Mbit/s

95th percentile per-packet one-way delay: 1.714 ms

Loss rate: 0.18%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 18:02:05  
End at: 2018-02-13 18:02:35  
Local clock offset: 1.189 ms  
Remote clock offset: -5.252 ms

# Below is generated by plot.py at 2018-02-14 01:55:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 470.44 Mbit/s  
95th percentile per-packet one-way delay: 2.344 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 315.15 Mbit/s  
95th percentile per-packet one-way delay: 3.186 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 154.07 Mbit/s  
95th percentile per-packet one-way delay: 1.898 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 161.01 Mbit/s  
95th percentile per-packet one-way delay: 1.963 ms  
Loss rate: 0.21%

Run 10: Report of Vivace-LTE — Data Link

