

## Pantheon Report

Generated at 2017-12-01 00:18:53 (UTC).

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

Repeated the test of 14 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).

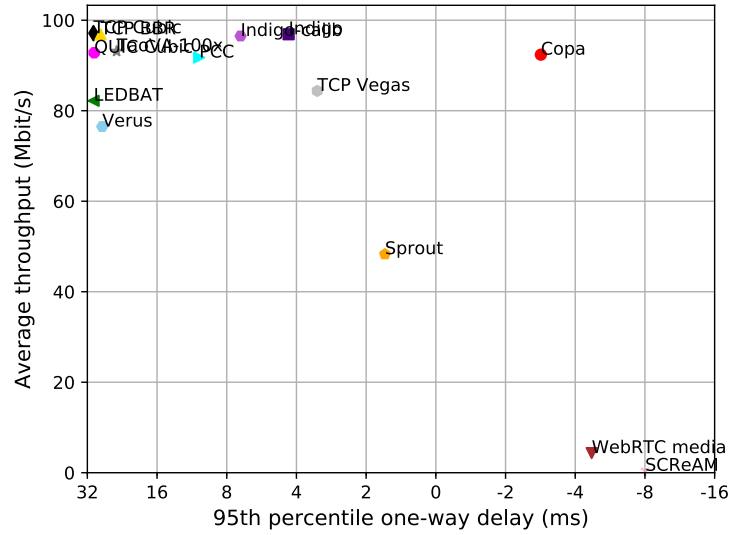
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

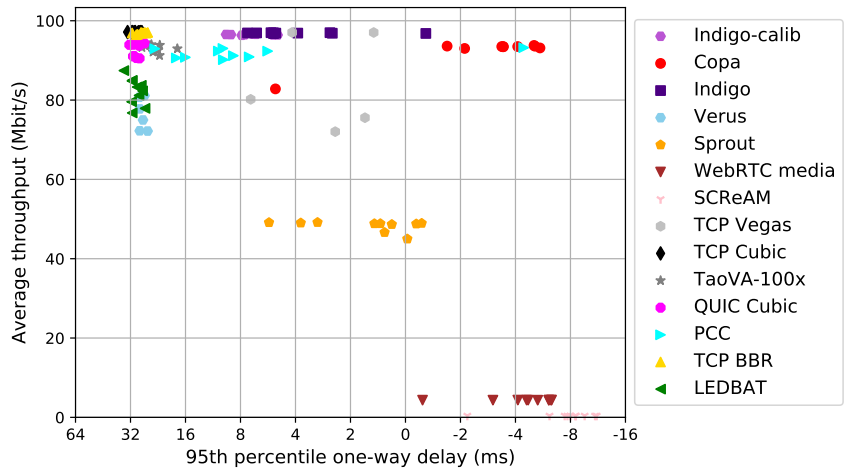
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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





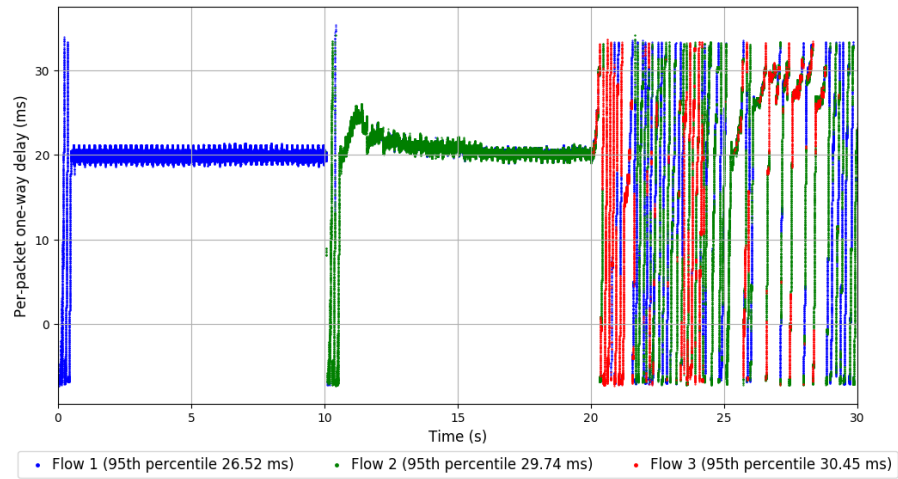
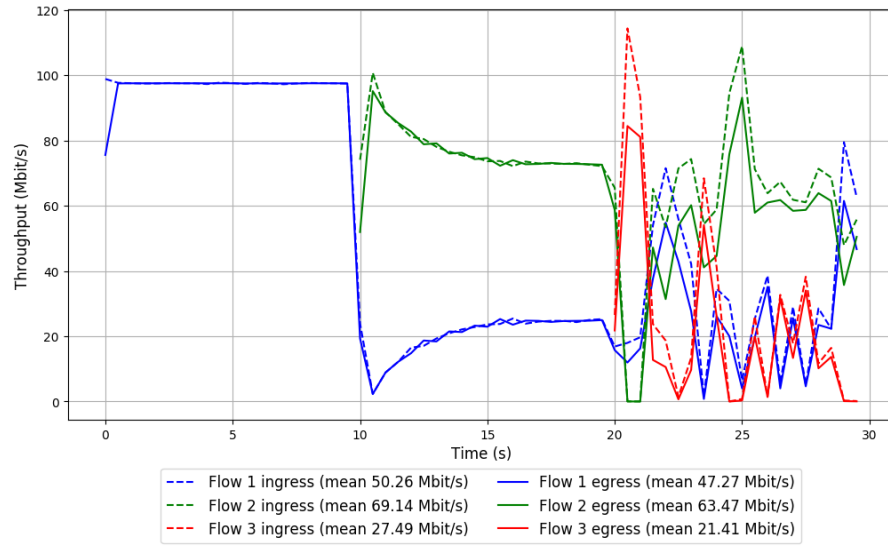
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	52.03	50.05	35.00	25.49	28.52	29.84	3.56	6.81	12.78
TCP Cubic	10	64.85	34.87	27.46	29.95	30.21	30.64	0.96	0.89	0.87
LEDBAT	10	50.16	35.01	26.98	29.66	30.59	29.99	0.42	0.60	0.68
PCC	10	79.48	14.27	8.48	10.00	12.79	16.56	0.89	0.73	0.77
QUIC Cubic	10	64.44	31.94	21.91	29.75	30.05	30.12	1.82	2.38	2.77
SCReAM	10	0.21	0.21	0.22	-8.03	-8.01	-8.06	0.00	0.00	0.00
WebRTC media	10	2.33	1.47	0.55	-5.19	-4.77	-3.39	0.01	0.00	0.07
Sprout	10	24.35	24.17	23.85	1.15	1.21	1.35	0.00	0.00	0.00
TaoVA-100x	10	56.35	41.38	35.98	21.29	25.12	26.94	2.75	7.45	18.44
TCP Vegas	5	25.64	57.15	47.19	642.57	1.56	-2.92	0.00	0.07	0.00
Verus	6	46.40	33.65	22.08	26.51	28.95	28.50	27.94	43.61	47.20
Copa	10	59.32	38.74	28.92	-3.55	-2.17	-1.91	0.00	0.00	0.00
Indigo	10	60.14	35.34	40.59	3.11	5.65	8.17	0.00	0.00	0.00
Indigo-calib	10	59.88	36.56	37.82	2.74	11.35	15.12	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 20:44:43  
End at: 2017-11-30 20:45:13  
Local clock offset: 3.296 ms  
Remote clock offset: -16.189 ms

# Below is generated by plot.py at 2017-11-30 23:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.58 Mbit/s  
95th percentile per-packet one-way delay: 29.259 ms  
Loss rate: 8.28%  
-- Flow 1:  
Average throughput: 47.27 Mbit/s  
95th percentile per-packet one-way delay: 26.525 ms  
Loss rate: 5.86%  
-- Flow 2:  
Average throughput: 63.47 Mbit/s  
95th percentile per-packet one-way delay: 29.737 ms  
Loss rate: 8.19%  
-- Flow 3:  
Average throughput: 21.41 Mbit/s  
95th percentile per-packet one-way delay: 30.454 ms  
Loss rate: 22.08%

# Run 1: Report of TCP BBR — Data Link

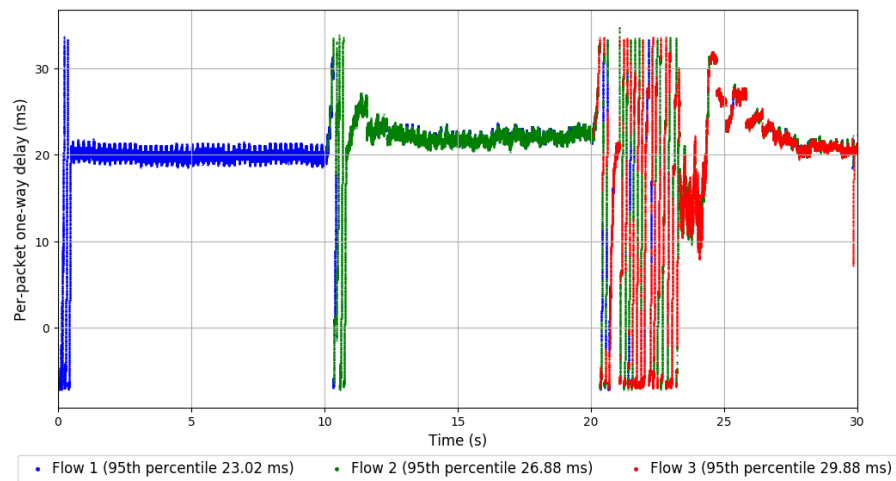
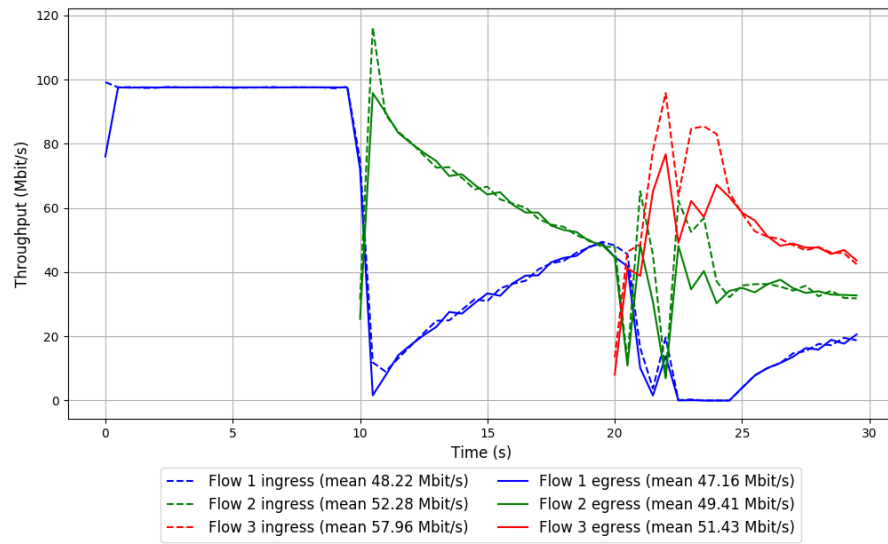


Run 2: Statistics of TCP BBR

Start at: 2017-11-30 21:01:28  
End at: 2017-11-30 21:01:58  
Local clock offset: 1.754 ms  
Remote clock offset: -17.503 ms

# Below is generated by plot.py at 2017-11-30 23:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.08 Mbit/s  
95th percentile per-packet one-way delay: 26.721 ms  
Loss rate: 4.98%  
-- Flow 1:  
Average throughput: 47.16 Mbit/s  
95th percentile per-packet one-way delay: 23.025 ms  
Loss rate: 2.10%  
-- Flow 2:  
Average throughput: 49.41 Mbit/s  
95th percentile per-packet one-way delay: 26.884 ms  
Loss rate: 5.47%  
-- Flow 3:  
Average throughput: 51.43 Mbit/s  
95th percentile per-packet one-way delay: 29.876 ms  
Loss rate: 11.29%

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

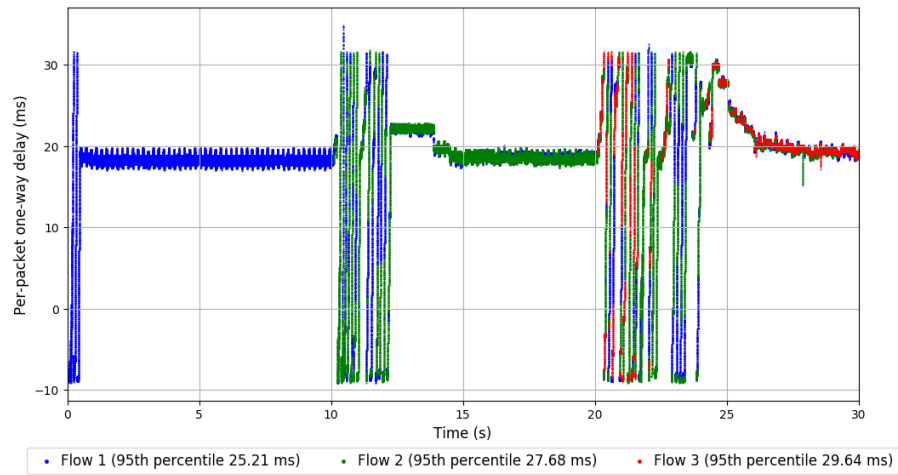
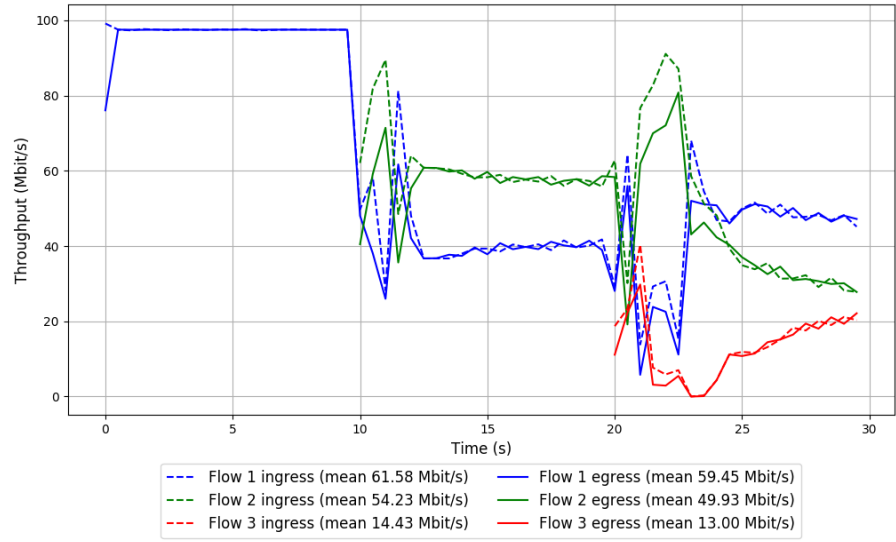


Run 3: Statistics of TCP BBR

Start at: 2017-11-30 21:18:03  
End at: 2017-11-30 21:18:33  
Local clock offset: 3.956 ms  
Remote clock offset: -17.946 ms

# Below is generated by plot.py at 2017-11-30 23:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.95 Mbit/s  
95th percentile per-packet one-way delay: 27.372 ms  
Loss rate: 5.28%  
-- Flow 1:  
Average throughput: 59.45 Mbit/s  
95th percentile per-packet one-way delay: 25.211 ms  
Loss rate: 3.36%  
-- Flow 2:  
Average throughput: 49.93 Mbit/s  
95th percentile per-packet one-way delay: 27.678 ms  
Loss rate: 7.92%  
-- Flow 3:  
Average throughput: 13.00 Mbit/s  
95th percentile per-packet one-way delay: 29.640 ms  
Loss rate: 9.91%

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



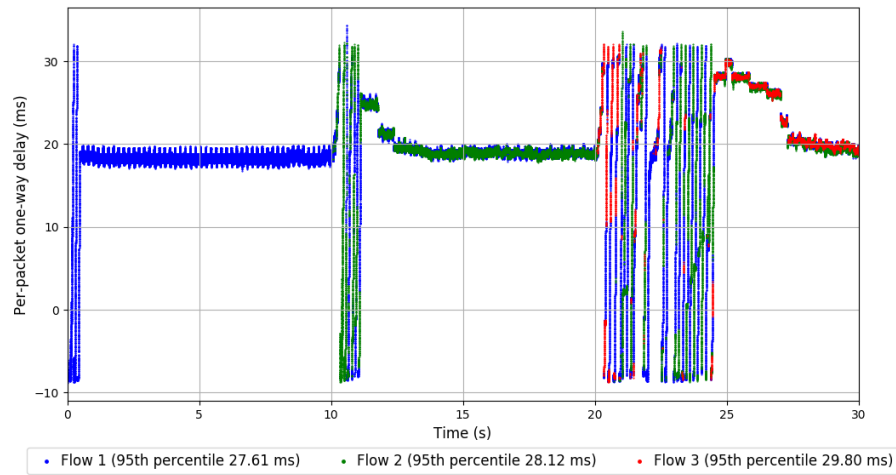
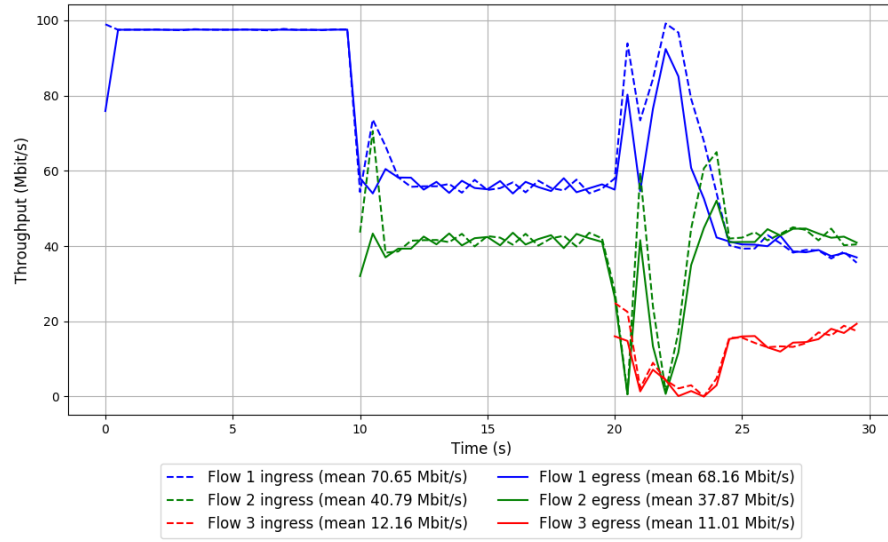
Run 4: Statistics of TCP BBR

Start at: 2017-11-30 21:34:41  
End at: 2017-11-30 21:35:11  
Local clock offset: 4.929 ms  
Remote clock offset: -17.047 ms

# Below is generated by plot.py at 2017-11-30 23:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.97 Mbit/s  
95th percentile per-packet one-way delay: 28.087 ms  
Loss rate: 4.68%  
-- Flow 1:  
Average throughput: 68.16 Mbit/s  
95th percentile per-packet one-way delay: 27.607 ms  
Loss rate: 3.44%  
-- Flow 2:  
Average throughput: 37.87 Mbit/s  
95th percentile per-packet one-way delay: 28.116 ms  
Loss rate: 7.18%  
-- Flow 3:  
Average throughput: 11.01 Mbit/s  
95th percentile per-packet one-way delay: 29.801 ms  
Loss rate: 9.47%



# Run 4: Report of TCP BBR — Data Link

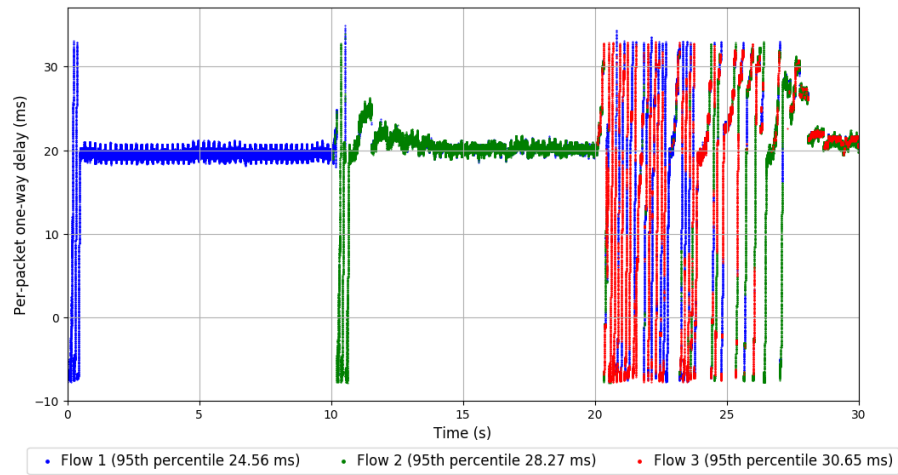
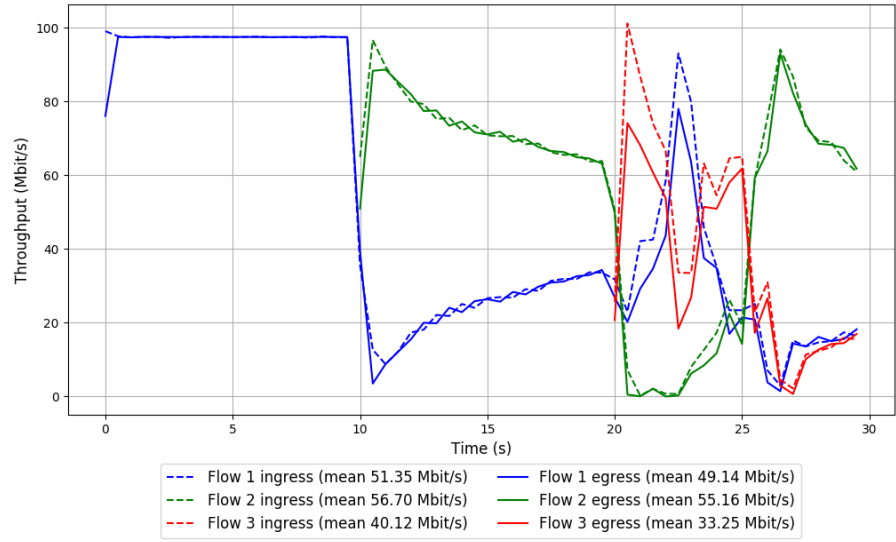


Run 5: Statistics of TCP BBR

Start at: 2017-11-30 21:51:34  
End at: 2017-11-30 21:52:04  
Local clock offset: 3.786 ms  
Remote clock offset: -17.611 ms

# Below is generated by plot.py at 2017-11-30 23:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.86 Mbit/s  
95th percentile per-packet one-way delay: 28.024 ms  
Loss rate: 5.34%  
-- Flow 1:  
Average throughput: 49.14 Mbit/s  
95th percentile per-packet one-way delay: 24.557 ms  
Loss rate: 4.22%  
-- Flow 2:  
Average throughput: 55.16 Mbit/s  
95th percentile per-packet one-way delay: 28.266 ms  
Loss rate: 2.71%  
-- Flow 3:  
Average throughput: 33.25 Mbit/s  
95th percentile per-packet one-way delay: 30.649 ms  
Loss rate: 17.13%

# Run 5: Report of TCP BBR — Data Link

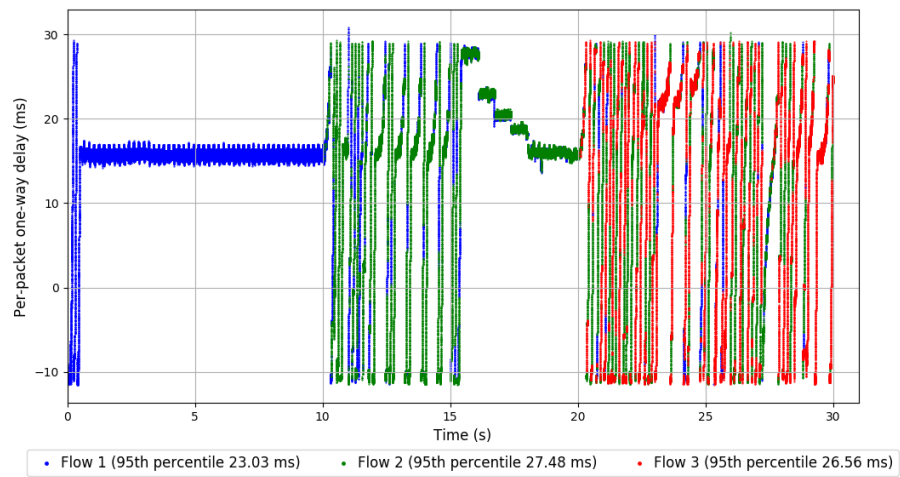
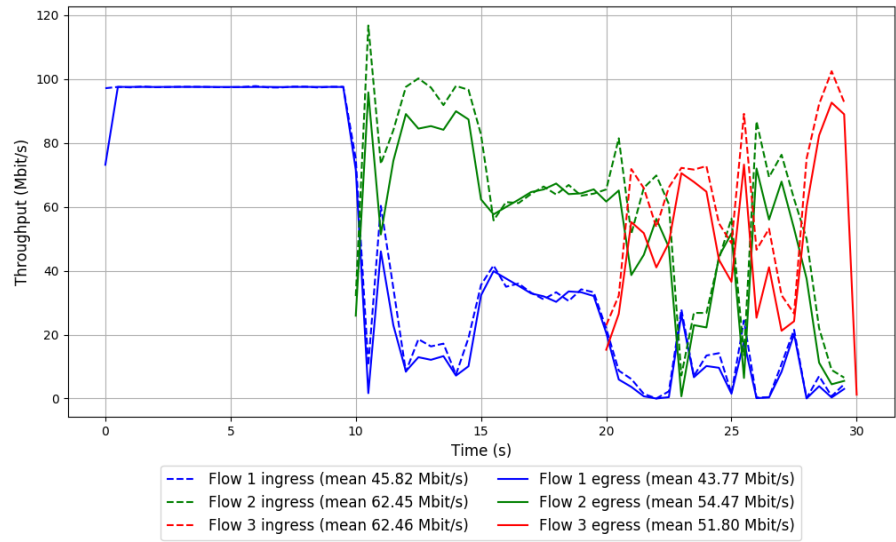


Run 6: Statistics of TCP BBR

Start at: 2017-11-30 22:08:26  
End at: 2017-11-30 22:08:56  
Local clock offset: 6.044 ms  
Remote clock offset: -18.928 ms

# Below is generated by plot.py at 2017-11-30 23:58:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.88 Mbit/s  
95th percentile per-packet one-way delay: 26.257 ms  
Loss rate: 10.10%  
-- Flow 1:  
Average throughput: 43.77 Mbit/s  
95th percentile per-packet one-way delay: 23.026 ms  
Loss rate: 4.55%  
-- Flow 2:  
Average throughput: 54.47 Mbit/s  
95th percentile per-packet one-way delay: 27.477 ms  
Loss rate: 12.77%  
-- Flow 3:  
Average throughput: 51.80 Mbit/s  
95th percentile per-packet one-way delay: 26.558 ms  
Loss rate: 16.98%

# Run 6: Report of TCP BBR — Data Link

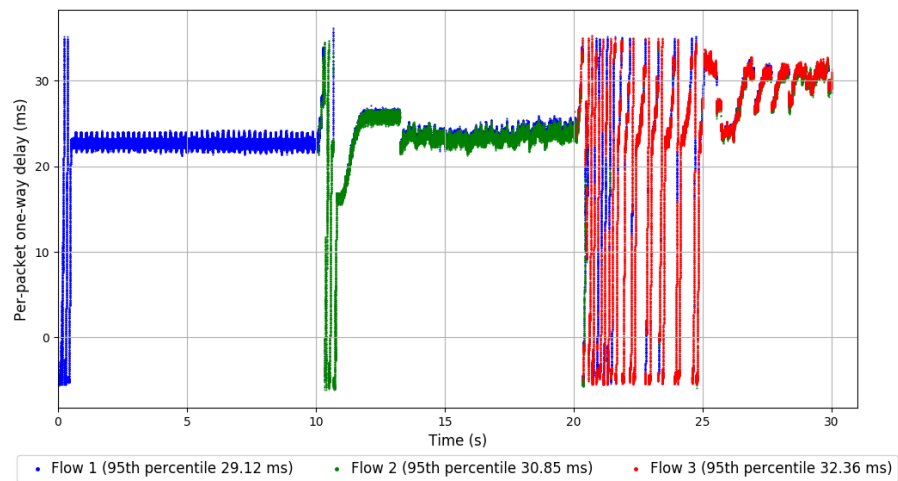
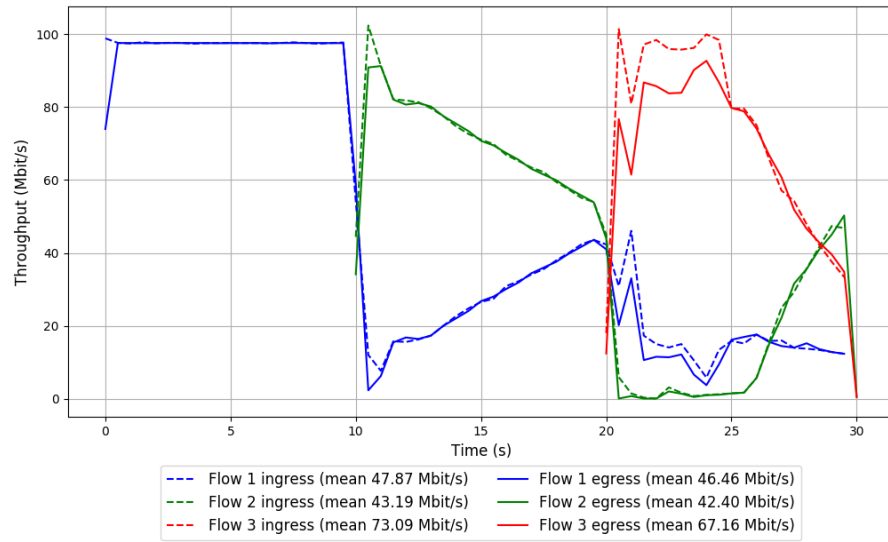


Run 7: Statistics of TCP BBR

Start at: 2017-11-30 22:26:16  
End at: 2017-11-30 22:26:46  
Local clock offset: 2.704 ms  
Remote clock offset: -17.458 ms

# Below is generated by plot.py at 2017-11-30 23:58:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.92 Mbit/s  
95th percentile per-packet one-way delay: 31.332 ms  
Loss rate: 3.79%  
-- Flow 1:  
Average throughput: 46.46 Mbit/s  
95th percentile per-packet one-way delay: 29.120 ms  
Loss rate: 2.84%  
-- Flow 2:  
Average throughput: 42.40 Mbit/s  
95th percentile per-packet one-way delay: 30.851 ms  
Loss rate: 1.77%  
-- Flow 3:  
Average throughput: 67.16 Mbit/s  
95th percentile per-packet one-way delay: 32.360 ms  
Loss rate: 8.07%

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



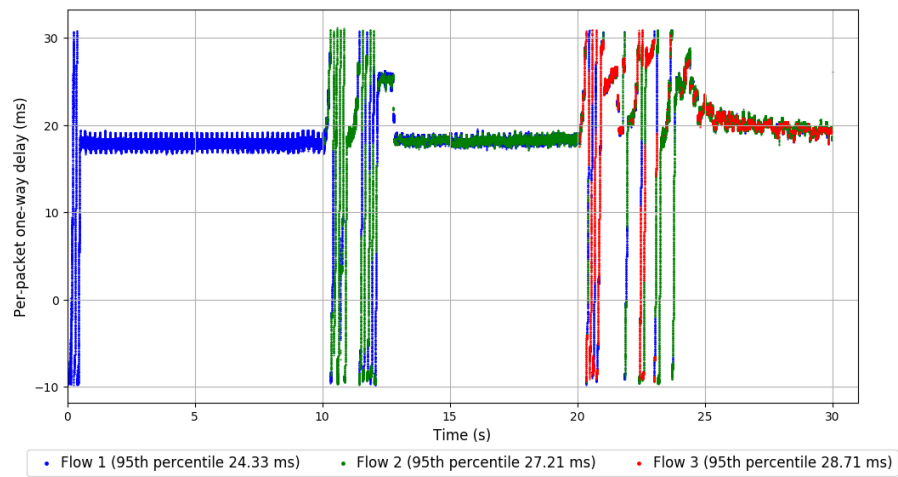
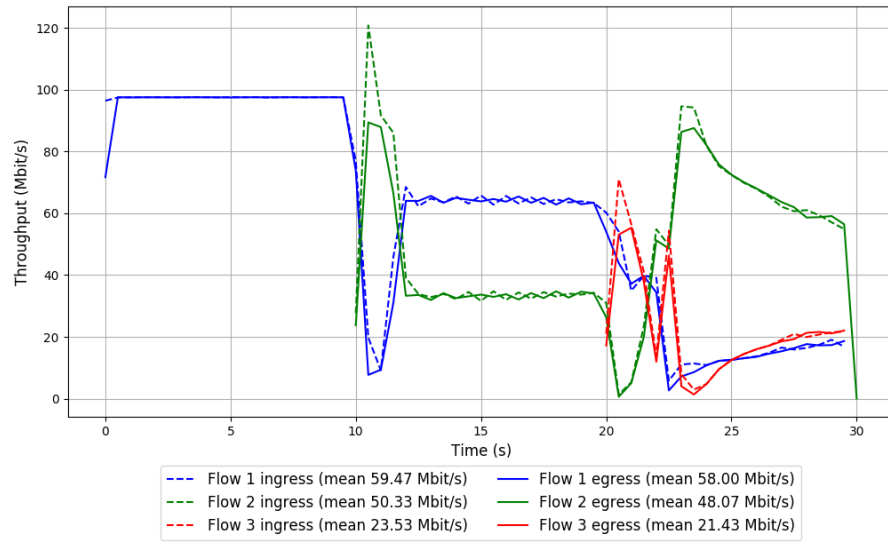
Run 8: Statistics of TCP BBR

Start at: 2017-11-30 22:43:16  
End at: 2017-11-30 22:43:46  
Local clock offset: 3.452 ms  
Remote clock offset: -19.684 ms

# Below is generated by plot.py at 2017-11-30 23:58:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.05 Mbit/s  
95th percentile per-packet one-way delay: 25.759 ms  
Loss rate: 3.58%  
-- Flow 1:  
Average throughput: 58.00 Mbit/s  
95th percentile per-packet one-way delay: 24.326 ms  
Loss rate: 2.39%  
-- Flow 2:  
Average throughput: 48.07 Mbit/s  
95th percentile per-packet one-way delay: 27.214 ms  
Loss rate: 4.46%  
-- Flow 3:  
Average throughput: 21.43 Mbit/s  
95th percentile per-packet one-way delay: 28.712 ms  
Loss rate: 8.89%



# Run 8: Report of TCP BBR — Data Link

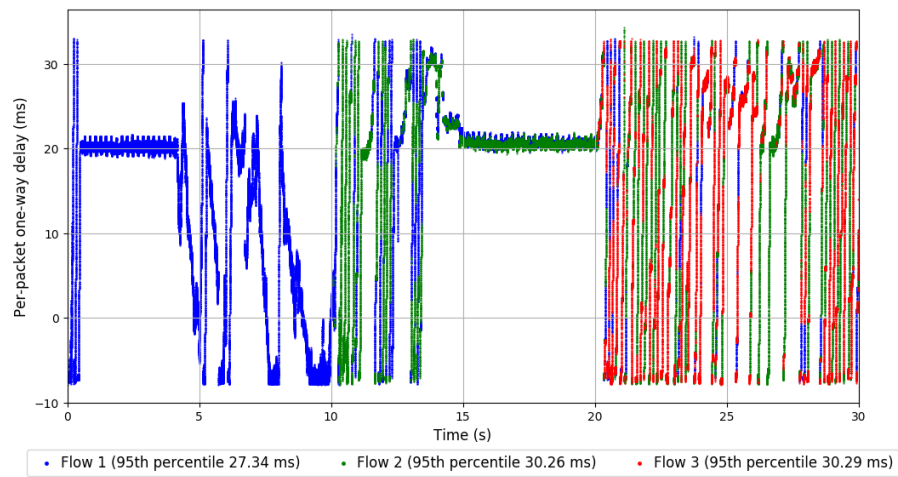
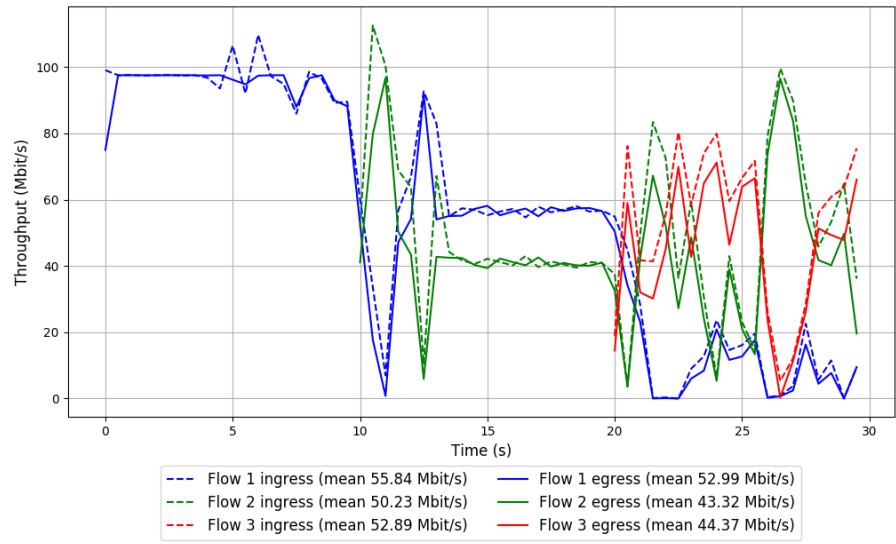


Run 9: Statistics of TCP BBR

Start at: 2017-11-30 23:00:13  
End at: 2017-11-30 23:00:43  
Local clock offset: 1.539 ms  
Remote clock offset: -18.872 ms

# Below is generated by plot.py at 2017-11-30 23:59:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.49 Mbit/s  
95th percentile per-packet one-way delay: 29.712 ms  
Loss rate: 9.60%  
-- Flow 1:  
Average throughput: 52.99 Mbit/s  
95th percentile per-packet one-way delay: 27.340 ms  
Loss rate: 5.06%  
-- Flow 2:  
Average throughput: 43.32 Mbit/s  
95th percentile per-packet one-way delay: 30.257 ms  
Loss rate: 13.73%  
-- Flow 3:  
Average throughput: 44.37 Mbit/s  
95th percentile per-packet one-way delay: 30.289 ms  
Loss rate: 16.17%

# Run 9: Report of TCP BBR — Data Link

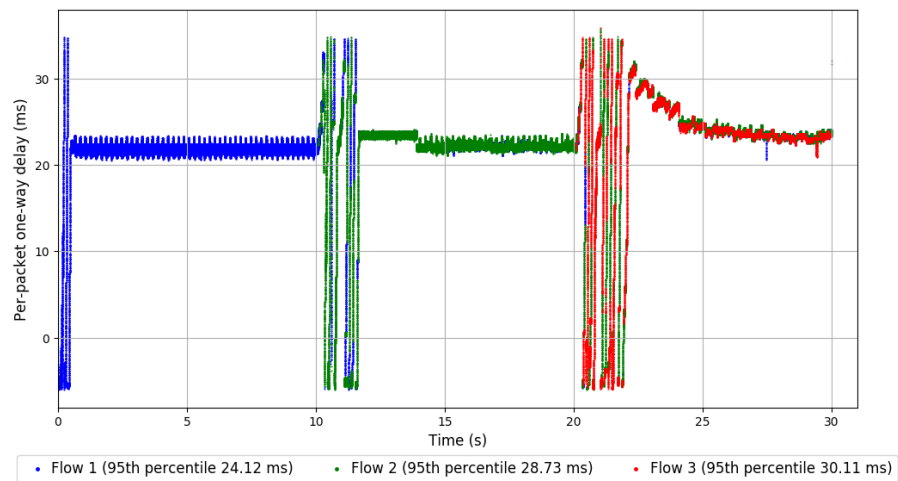
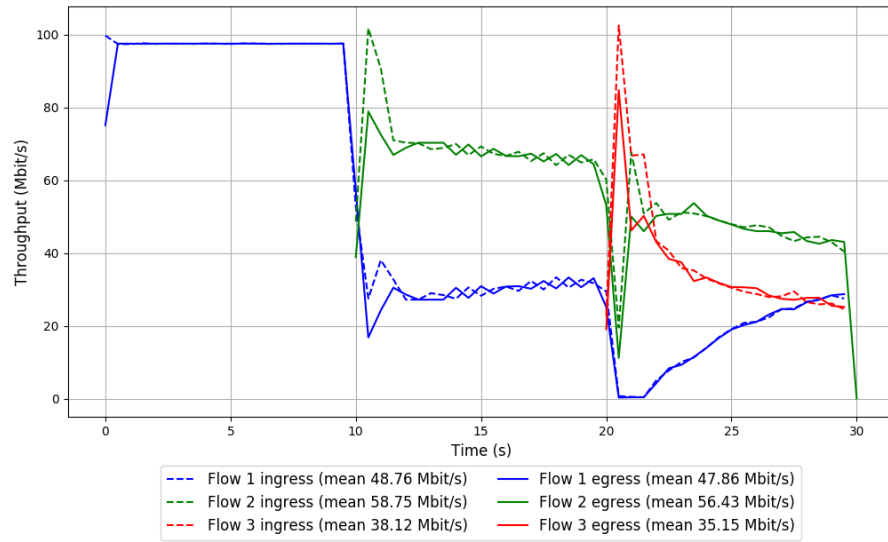


Run 10: Statistics of TCP BBR

Start at: 2017-11-30 23:17:09  
End at: 2017-11-30 23:17:39  
Local clock offset: -0.229 ms  
Remote clock offset: -18.144 ms

# Below is generated by plot.py at 2017-11-30 23:59:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.01 Mbit/s  
95th percentile per-packet one-way delay: 27.968 ms  
Loss rate: 3.35%  
-- Flow 1:  
Average throughput: 47.86 Mbit/s  
95th percentile per-packet one-way delay: 24.117 ms  
Loss rate: 1.76%  
-- Flow 2:  
Average throughput: 56.43 Mbit/s  
95th percentile per-packet one-way delay: 28.735 ms  
Loss rate: 3.91%  
-- Flow 3:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 30.110 ms  
Loss rate: 7.78%

# Run 10: Report of TCP BBR — Data Link

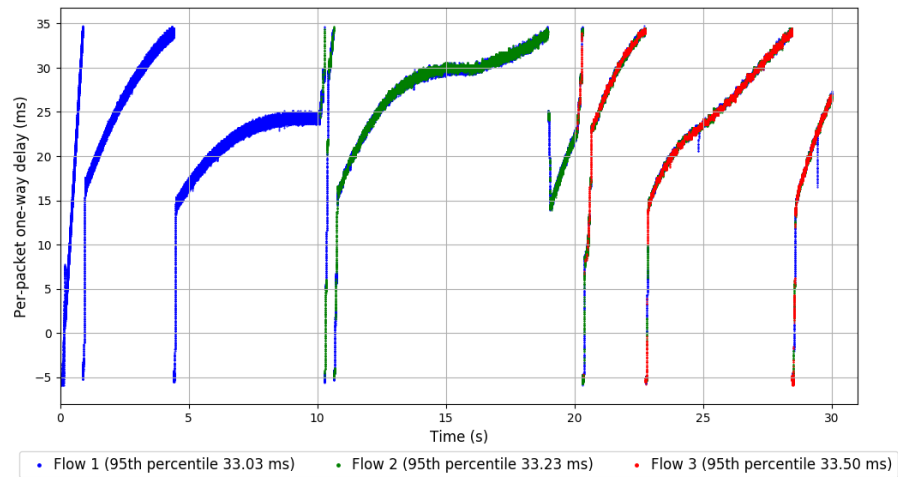
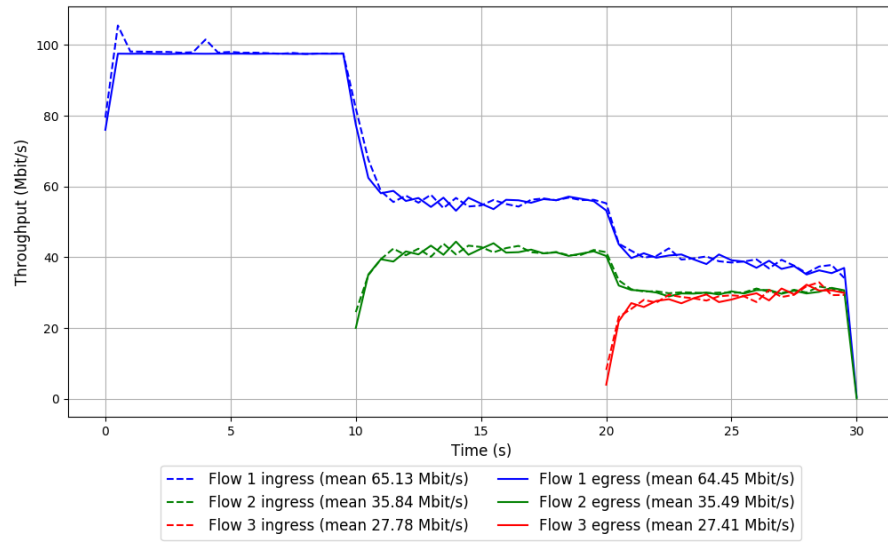


Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 20:55:25  
End at: 2017-11-30 20:55:55  
Local clock offset: 1.256 ms  
Remote clock offset: -16.832 ms

# Below is generated by plot.py at 2017-11-30 23:59:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.15 Mbit/s  
95th percentile per-packet one-way delay: 33.210 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 64.45 Mbit/s  
95th percentile per-packet one-way delay: 33.029 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 35.49 Mbit/s  
95th percentile per-packet one-way delay: 33.233 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 27.41 Mbit/s  
95th percentile per-packet one-way delay: 33.503 ms  
Loss rate: 1.31%

# Run 1: Report of TCP Cubic — Data Link



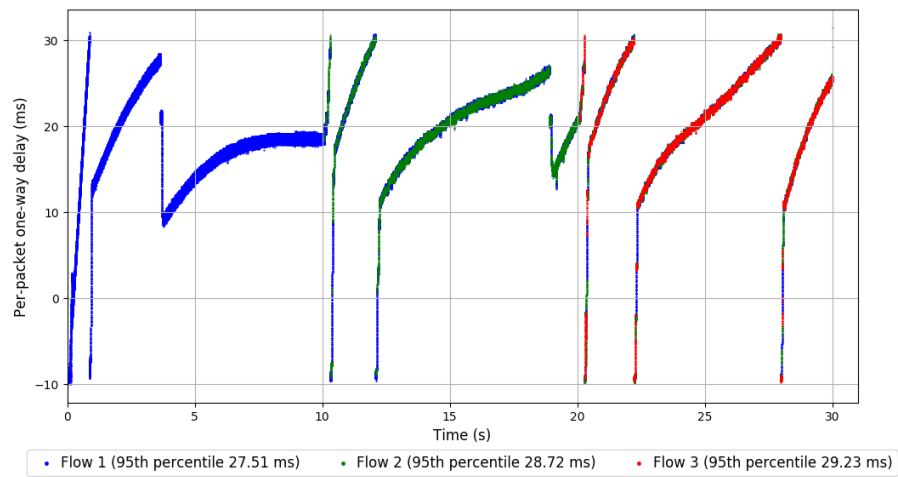
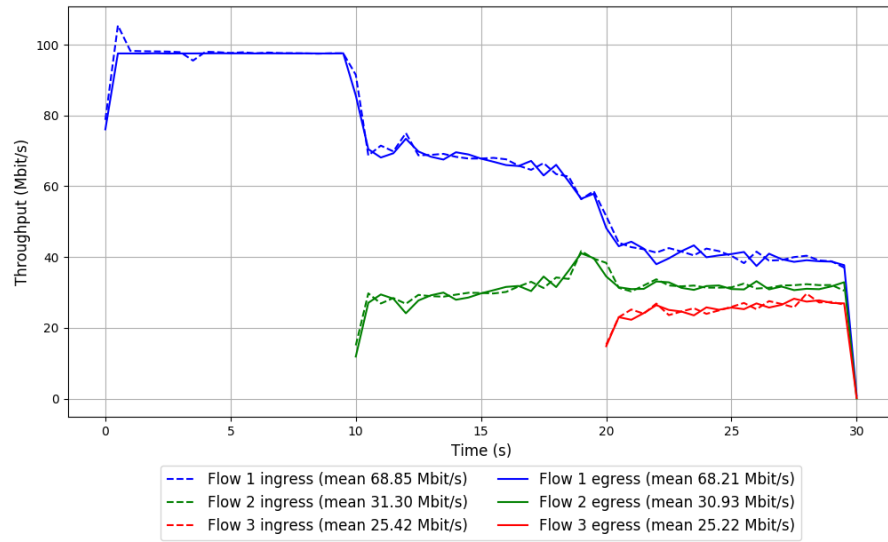
Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 21:12:08  
End at: 2017-11-30 21:12:38  
Local clock offset: 3.691 ms  
Remote clock offset: -19.054 ms

# Below is generated by plot.py at 2017-11-30 23:59:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.15 Mbit/s  
95th percentile per-packet one-way delay: 28.193 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 68.21 Mbit/s  
95th percentile per-packet one-way delay: 27.512 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 30.93 Mbit/s  
95th percentile per-packet one-way delay: 28.719 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 25.22 Mbit/s  
95th percentile per-packet one-way delay: 29.233 ms  
Loss rate: 0.69%



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

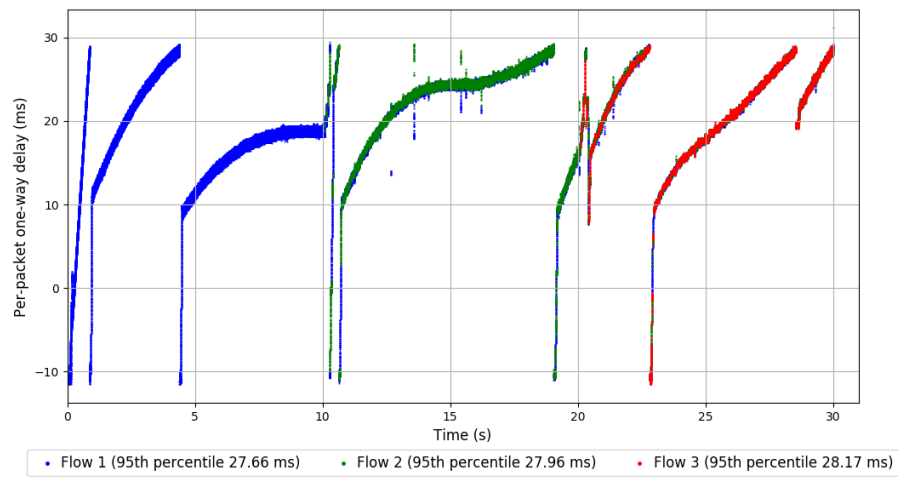
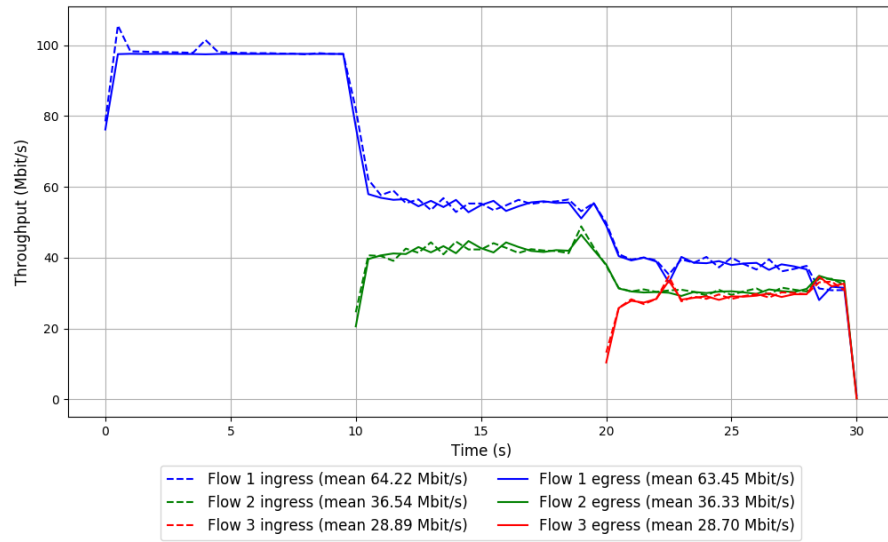


Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 21:28:43  
End at: 2017-11-30 21:29:13  
Local clock offset: 5.085 ms  
Remote clock offset: -19.541 ms

# Below is generated by plot.py at 2017-11-30 23:59:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.14 Mbit/s  
95th percentile per-packet one-way delay: 27.725 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 63.45 Mbit/s  
95th percentile per-packet one-way delay: 27.664 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 36.33 Mbit/s  
95th percentile per-packet one-way delay: 27.958 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 28.70 Mbit/s  
95th percentile per-packet one-way delay: 28.167 ms  
Loss rate: 0.50%

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

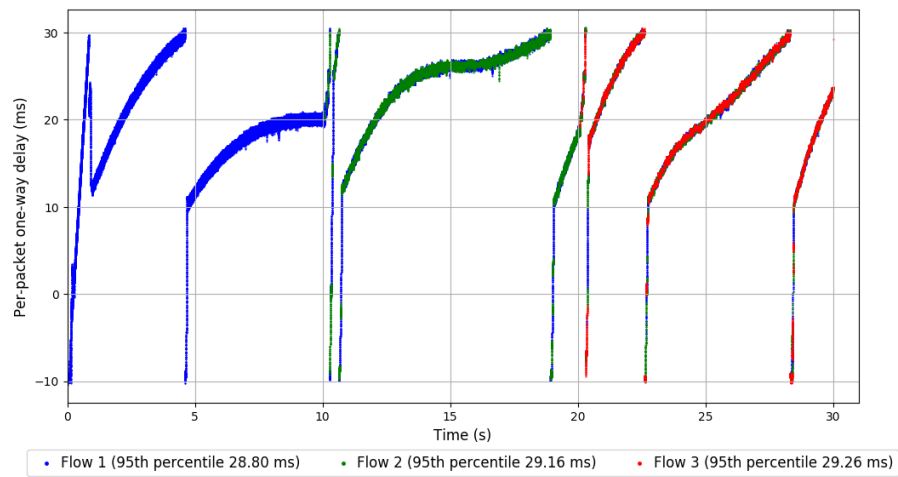
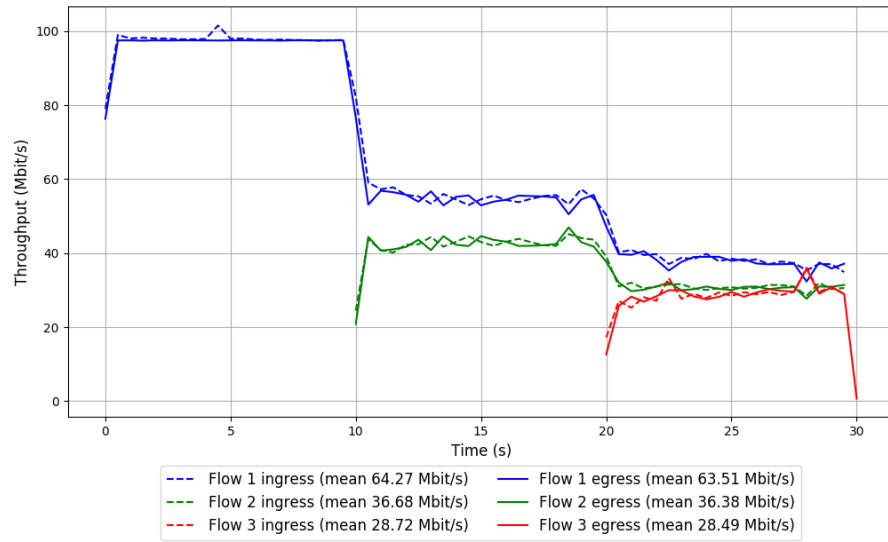


Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 21:45:33  
End at: 2017-11-30 21:46:03  
Local clock offset: 5.098 ms  
Remote clock offset: -18.499 ms

# Below is generated by plot.py at 2017-11-30 23:59:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.11 Mbit/s  
95th percentile per-packet one-way delay: 28.981 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 63.51 Mbit/s  
95th percentile per-packet one-way delay: 28.801 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 36.38 Mbit/s  
95th percentile per-packet one-way delay: 29.158 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 28.49 Mbit/s  
95th percentile per-packet one-way delay: 29.264 ms  
Loss rate: 0.72%

# Run 4: Report of TCP Cubic — Data Link

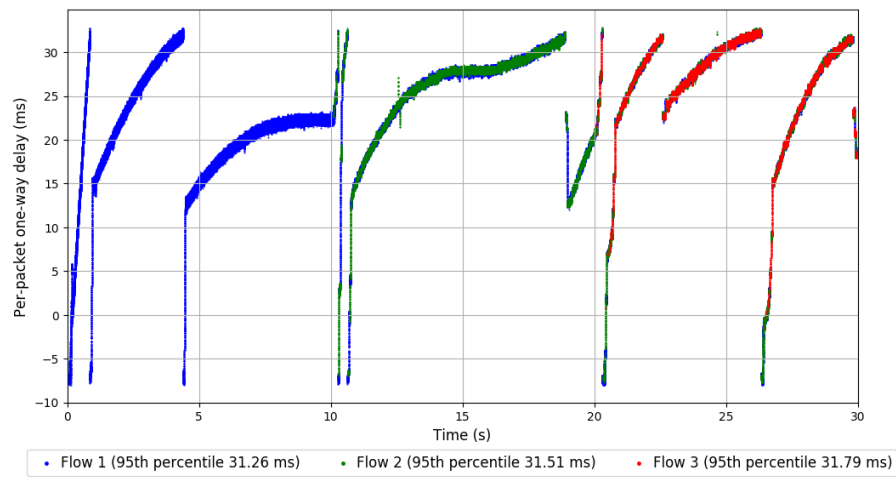
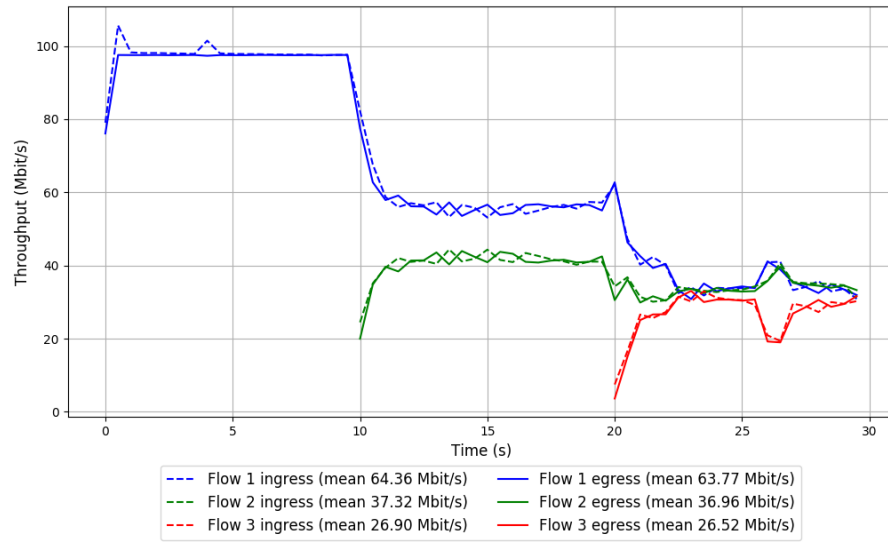


Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 22:02:23  
End at: 2017-11-30 22:02:53  
Local clock offset: 4.518 ms  
Remote clock offset: -16.816 ms

# Below is generated by plot.py at 2017-11-30 23:59:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.12 Mbit/s  
95th percentile per-packet one-way delay: 31.482 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 63.77 Mbit/s  
95th percentile per-packet one-way delay: 31.264 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 36.96 Mbit/s  
95th percentile per-packet one-way delay: 31.511 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 26.52 Mbit/s  
95th percentile per-packet one-way delay: 31.788 ms  
Loss rate: 1.43%

# Run 5: Report of TCP Cubic — Data Link



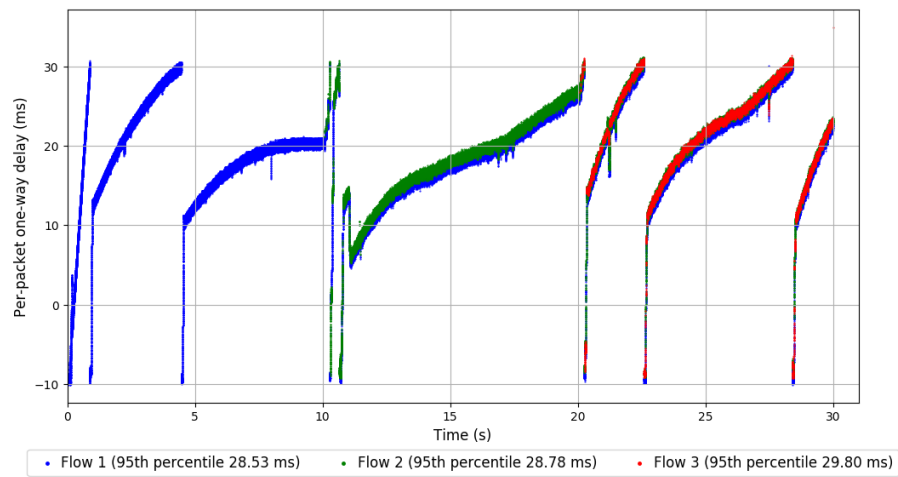
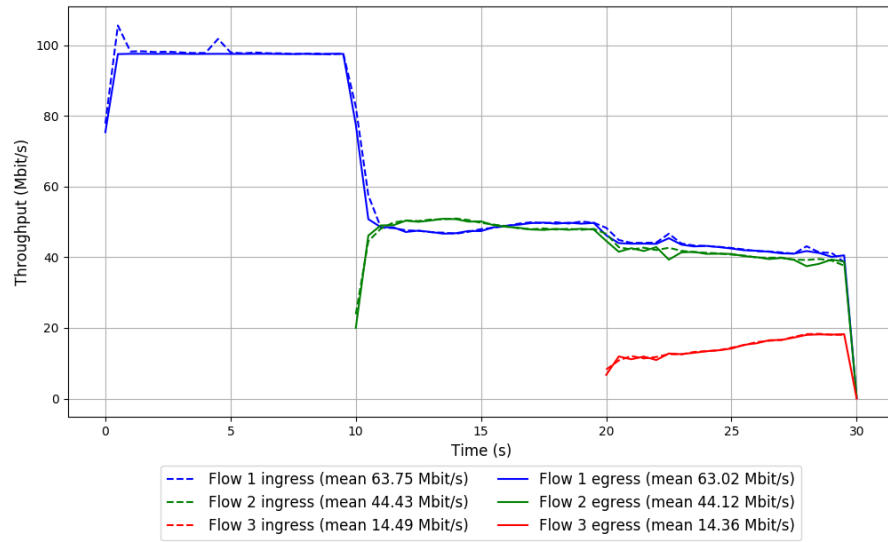
Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 22:19:57  
End at: 2017-11-30 22:20:27  
Local clock offset: 5.225 ms  
Remote clock offset: -18.81 ms

# Below is generated by plot.py at 2017-11-30 23:59:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.09 Mbit/s  
95th percentile per-packet one-way delay: 28.611 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 63.02 Mbit/s  
95th percentile per-packet one-way delay: 28.527 ms  
Loss rate: 1.05%  
-- Flow 2:  
Average throughput: 44.12 Mbit/s  
95th percentile per-packet one-way delay: 28.777 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 14.36 Mbit/s  
95th percentile per-packet one-way delay: 29.796 ms  
Loss rate: 0.82%



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

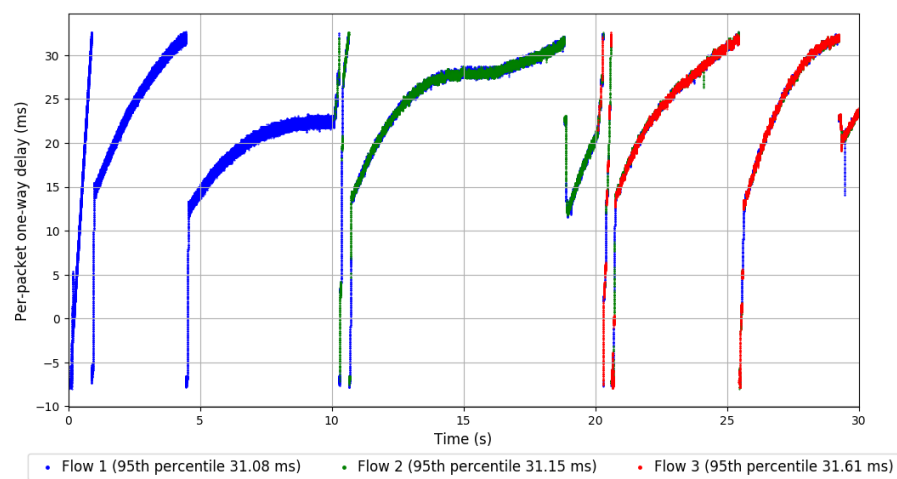
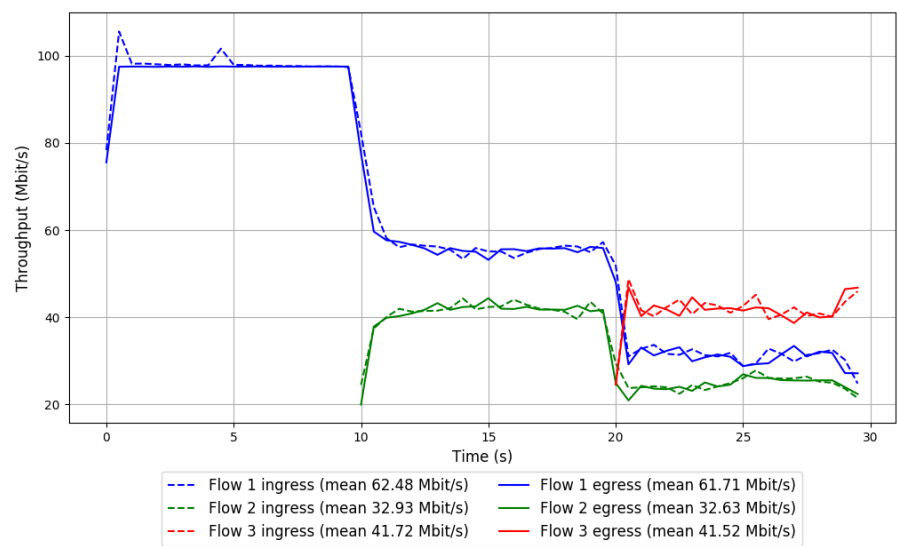


Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 22:37:11  
End at: 2017-11-30 22:37:41  
Local clock offset: 3.384 ms  
Remote clock offset: -18.333 ms

# Below is generated by plot.py at 2017-12-01 00:01:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.14 Mbit/s  
95th percentile per-packet one-way delay: 31.159 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 61.71 Mbit/s  
95th percentile per-packet one-way delay: 31.078 ms  
Loss rate: 1.13%  
-- Flow 2:  
Average throughput: 32.63 Mbit/s  
95th percentile per-packet one-way delay: 31.151 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 41.52 Mbit/s  
95th percentile per-packet one-way delay: 31.611 ms  
Loss rate: 0.47%

Run 7: Report of TCP Cubic — Data Link

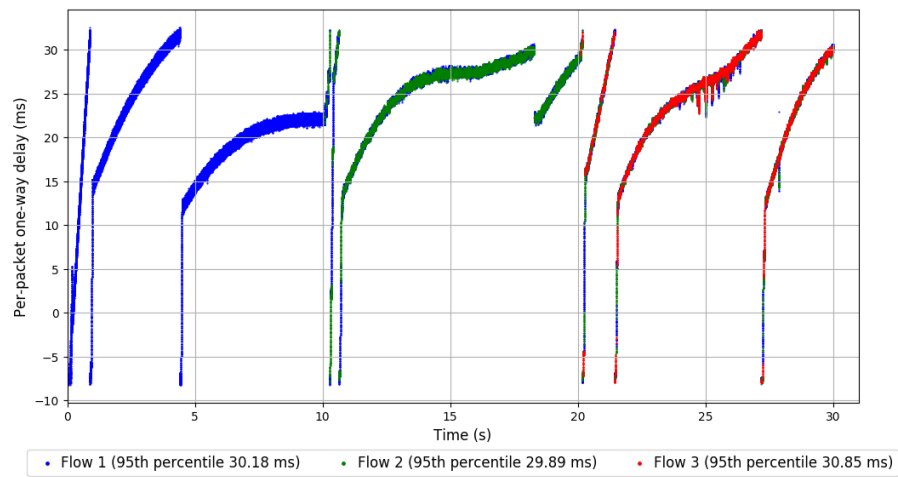
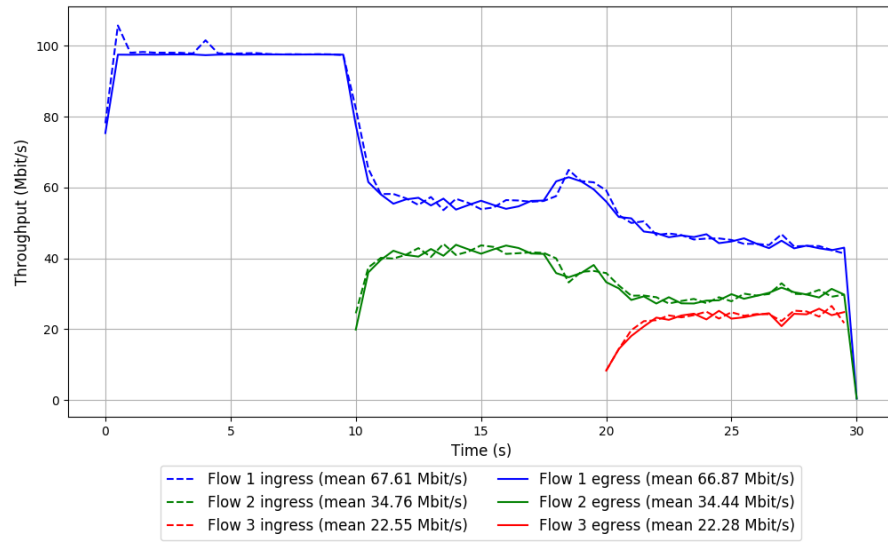


Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 22:54:07  
End at: 2017-11-30 22:54:37  
Local clock offset: 1.609 ms  
Remote clock offset: -19.645 ms

# Below is generated by plot.py at 2017-12-01 00:01:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.15 Mbit/s  
95th percentile per-packet one-way delay: 30.137 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 66.87 Mbit/s  
95th percentile per-packet one-way delay: 30.179 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 34.44 Mbit/s  
95th percentile per-packet one-way delay: 29.892 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 22.28 Mbit/s  
95th percentile per-packet one-way delay: 30.854 ms  
Loss rate: 1.19%

# Run 8: Report of TCP Cubic — Data Link

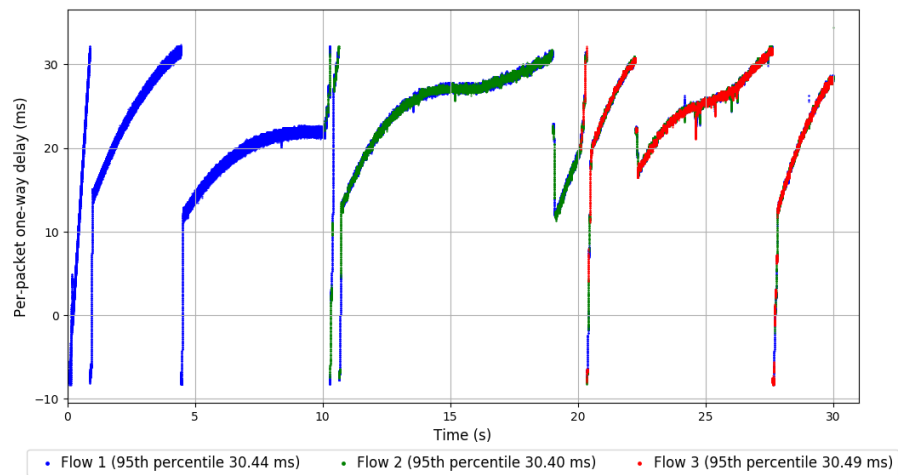
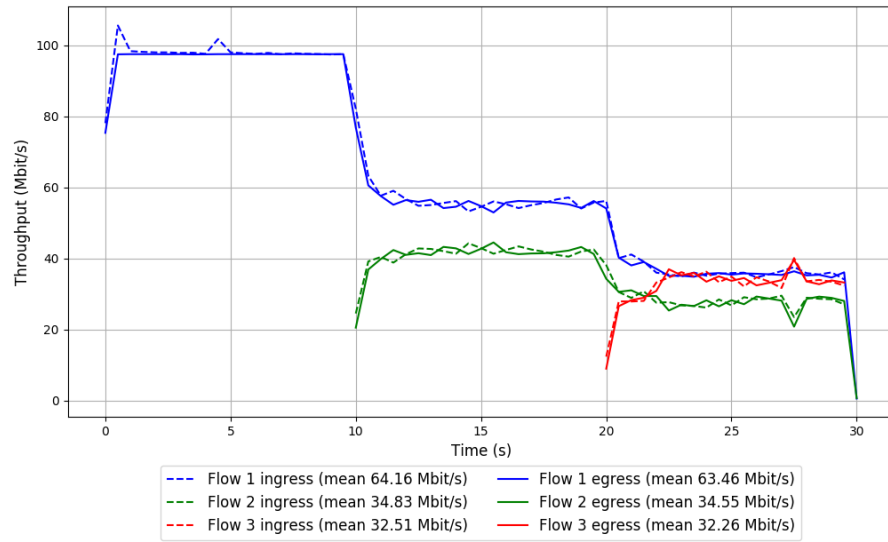


Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 23:10:58  
End at: 2017-11-30 23:11:28  
Local clock offset: 2.374 ms  
Remote clock offset: -18.329 ms

# Below is generated by plot.py at 2017-12-01 00:01:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.12 Mbit/s  
95th percentile per-packet one-way delay: 30.439 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 63.46 Mbit/s  
95th percentile per-packet one-way delay: 30.439 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 34.55 Mbit/s  
95th percentile per-packet one-way delay: 30.404 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 32.26 Mbit/s  
95th percentile per-packet one-way delay: 30.494 ms  
Loss rate: 0.67%

# Run 9: Report of TCP Cubic — Data Link



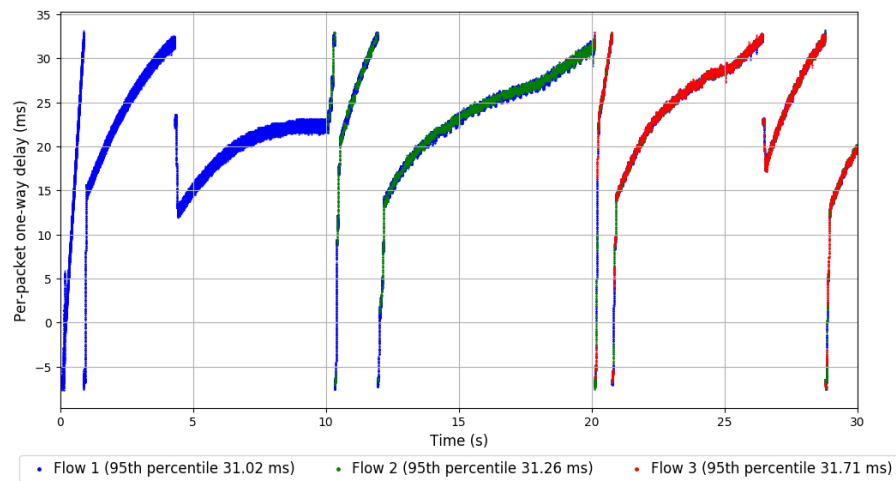
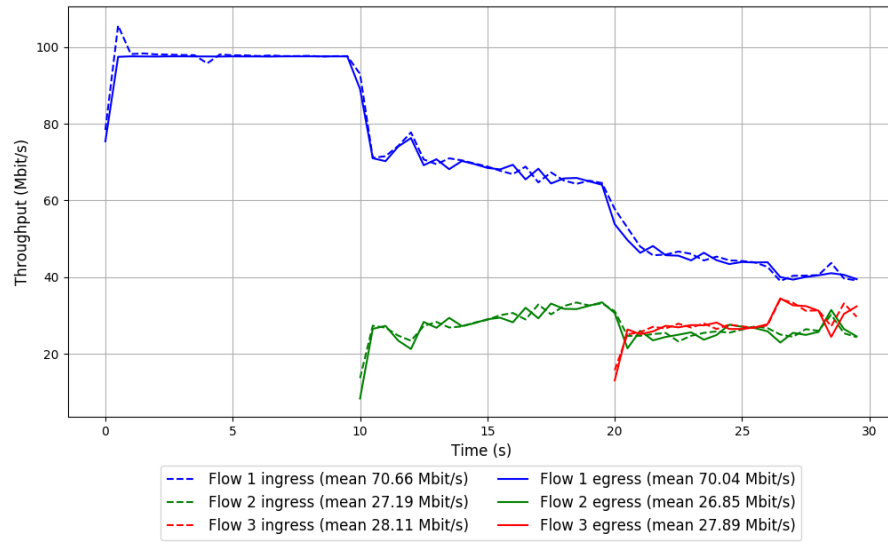
Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 23:28:07  
End at: 2017-11-30 23:28:37  
Local clock offset: -0.063 ms  
Remote clock offset: -19.253 ms

# Below is generated by plot.py at 2017-12-01 00:01:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.14 Mbit/s  
95th percentile per-packet one-way delay: 31.211 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 70.04 Mbit/s  
95th percentile per-packet one-way delay: 31.017 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 26.85 Mbit/s  
95th percentile per-packet one-way delay: 31.260 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 27.89 Mbit/s  
95th percentile per-packet one-way delay: 31.709 ms  
Loss rate: 0.91%



# Run 10: Report of TCP Cubic — Data Link

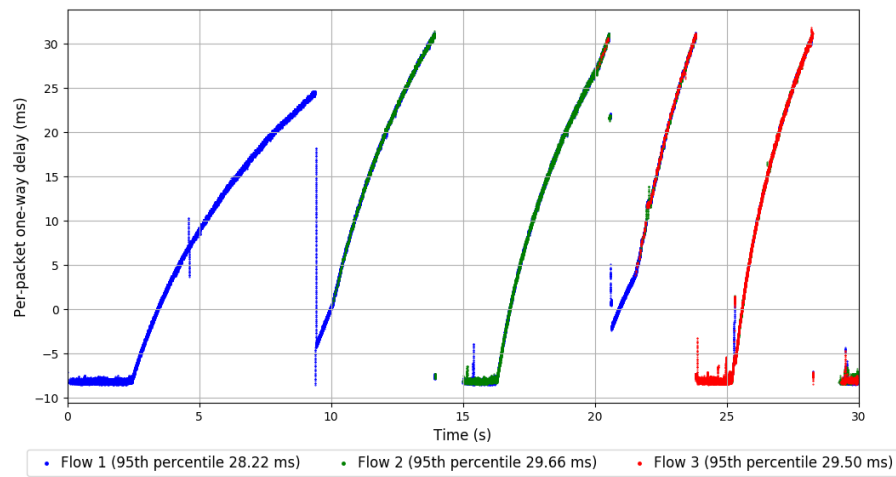
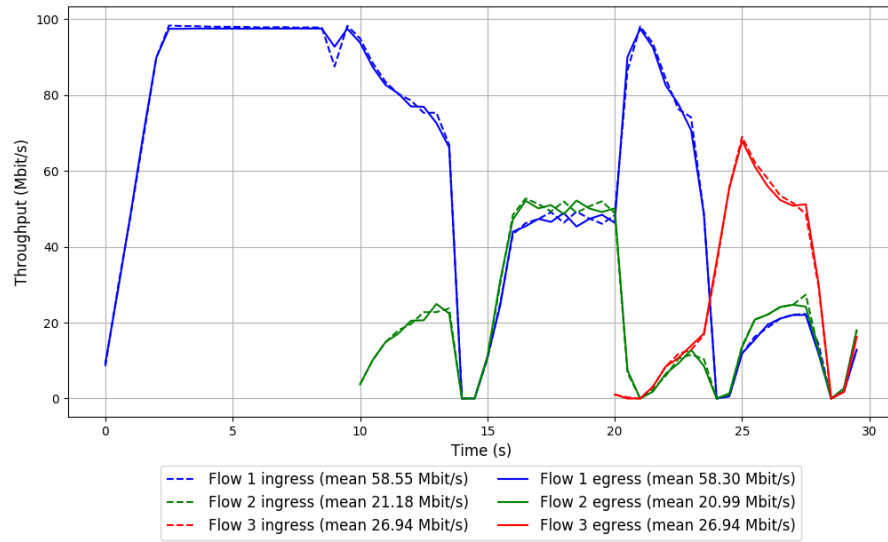


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 20:47:02
End at: 2017-11-30 20:47:32
Local clock offset: 2.105 ms
Remote clock offset: -18.439 ms

# Below is generated by plot.py at 2017-12-01 00:01:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.16 Mbit/s
95th percentile per-packet one-way delay: 28.746 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 28.221 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 29.661 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 26.94 Mbit/s
95th percentile per-packet one-way delay: 29.495 ms
Loss rate: 0.35%
```

# Run 1: Report of LEDBAT — Data Link

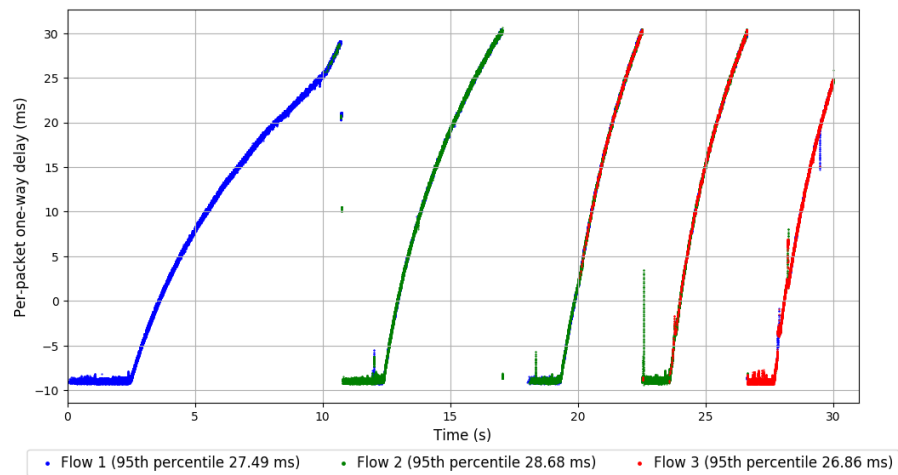
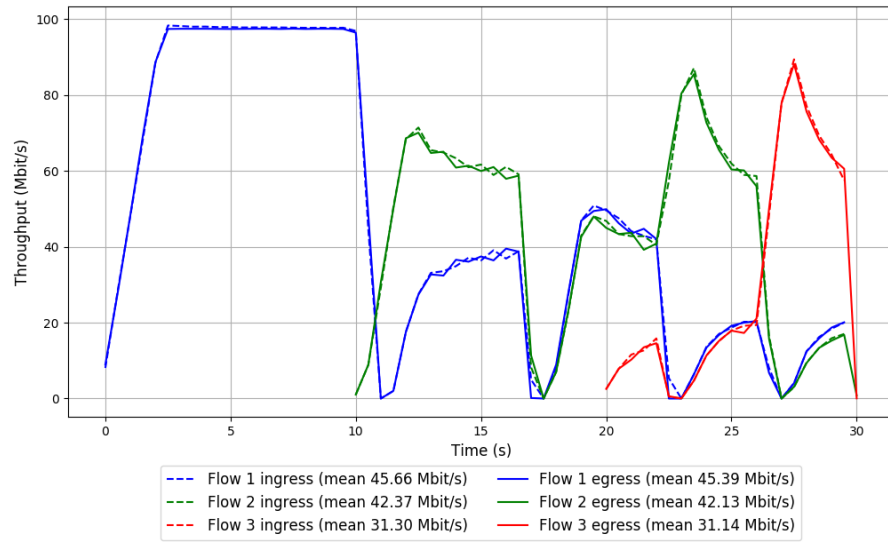


Run 2: Statistics of LEDBAT

Start at: 2017-11-30 21:03:47  
End at: 2017-11-30 21:04:17  
Local clock offset: 4.208 ms  
Remote clock offset: -17.339 ms

# Below is generated by plot.py at 2017-12-01 00:01:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.72 Mbit/s  
95th percentile per-packet one-way delay: 27.925 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 45.39 Mbit/s  
95th percentile per-packet one-way delay: 27.486 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 42.13 Mbit/s  
95th percentile per-packet one-way delay: 28.681 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 31.14 Mbit/s  
95th percentile per-packet one-way delay: 26.864 ms  
Loss rate: 0.28%

## Run 2: Report of LEDBAT — Data Link

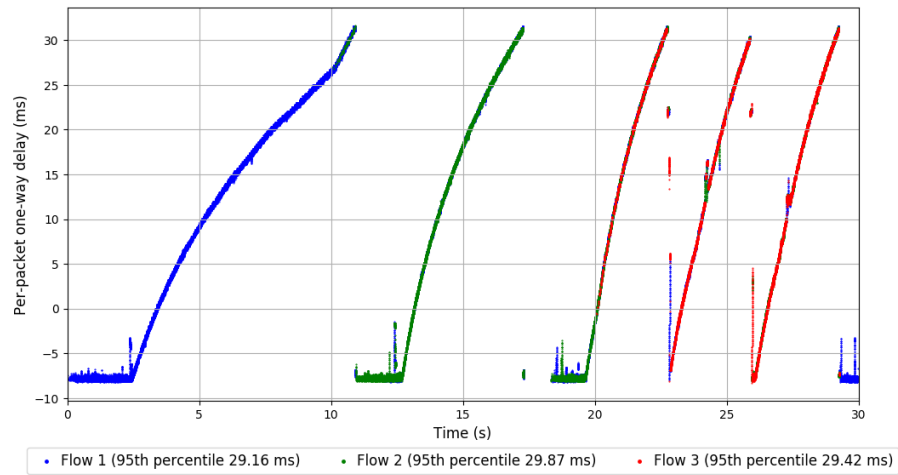
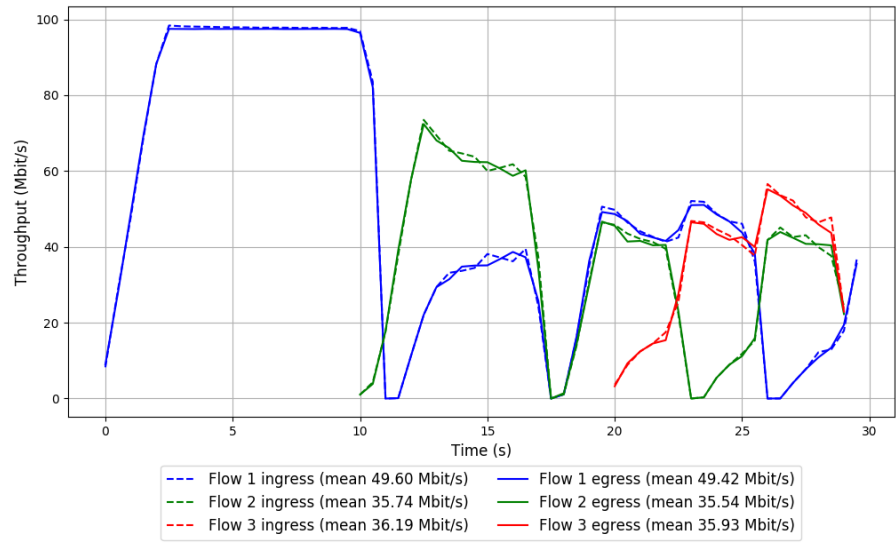


Run 3: Statistics of LEDBAT

Start at: 2017-11-30 21:20:20  
End at: 2017-11-30 21:20:50  
Local clock offset: 4.624 ms  
Remote clock offset: -16.266 ms

# Below is generated by plot.py at 2017-12-01 00:01:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.29 Mbit/s  
95th percentile per-packet one-way delay: 29.429 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 49.42 Mbit/s  
95th percentile per-packet one-way delay: 29.158 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 35.54 Mbit/s  
95th percentile per-packet one-way delay: 29.870 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 35.93 Mbit/s  
95th percentile per-packet one-way delay: 29.417 ms  
Loss rate: 0.77%

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



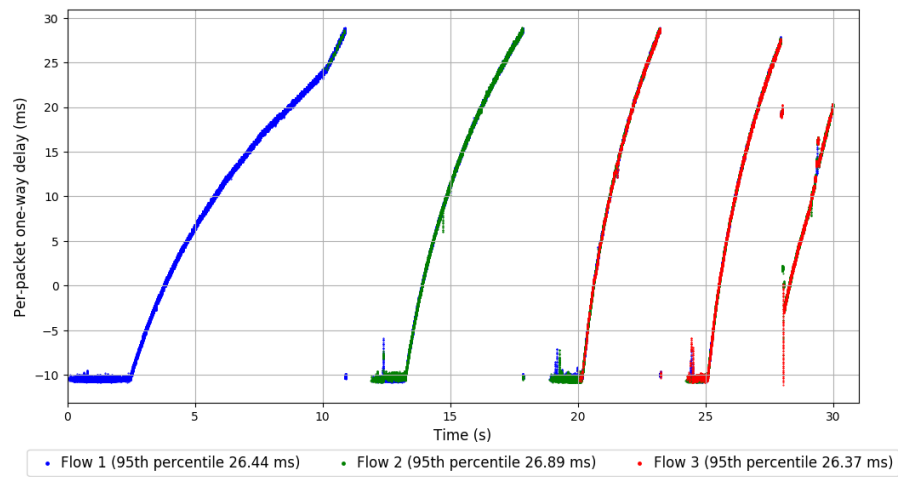
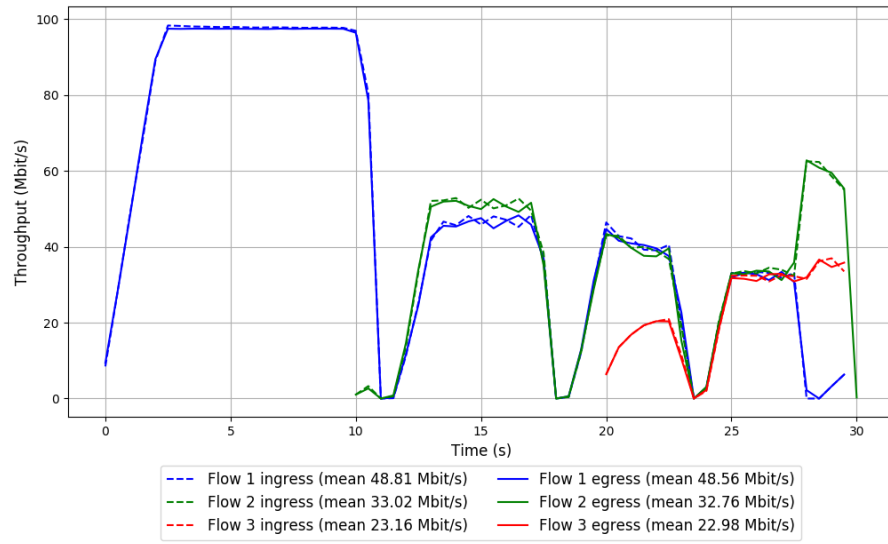
Run 4: Statistics of LEDBAT

Start at: 2017-11-30 21:36:58  
End at: 2017-11-30 21:37:28  
Local clock offset: 5.743 ms  
Remote clock offset: -18.358 ms

# Below is generated by plot.py at 2017-12-01 00:01:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.90 Mbit/s  
95th percentile per-packet one-way delay: 26.644 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 48.56 Mbit/s  
95th percentile per-packet one-way delay: 26.436 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 32.76 Mbit/s  
95th percentile per-packet one-way delay: 26.892 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 22.98 Mbit/s  
95th percentile per-packet one-way delay: 26.367 ms  
Loss rate: 0.47%



# Run 4: Report of LEDBAT — Data Link

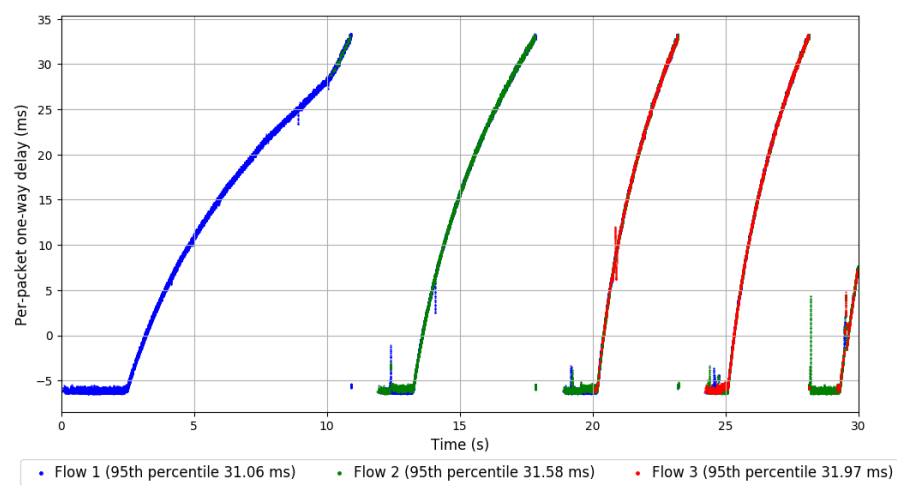
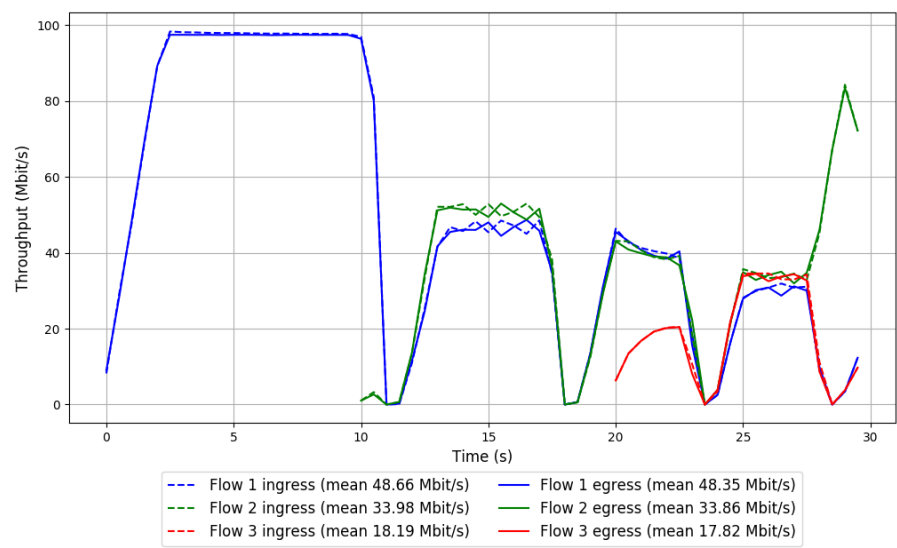


Run 5: Statistics of LEDBAT

Start at: 2017-11-30 21:53:52  
End at: 2017-11-30 21:54:22  
Local clock offset: 3.023 ms  
Remote clock offset: -17.047 ms

# Below is generated by plot.py at 2017-12-01 00:01:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.76 Mbit/s  
95th percentile per-packet one-way delay: 31.325 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 48.35 Mbit/s  
95th percentile per-packet one-way delay: 31.058 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 33.86 Mbit/s  
95th percentile per-packet one-way delay: 31.576 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 17.82 Mbit/s  
95th percentile per-packet one-way delay: 31.973 ms  
Loss rate: 1.90%

Run 5: Report of LEDBAT — Data Link

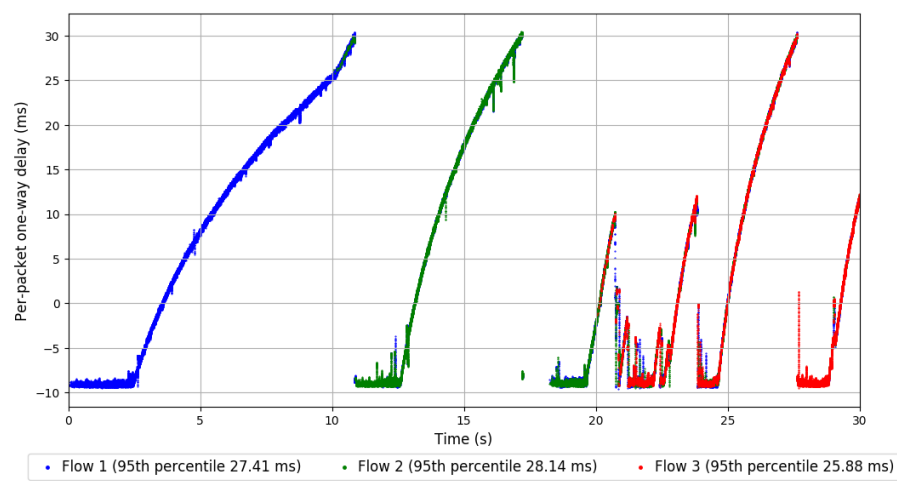
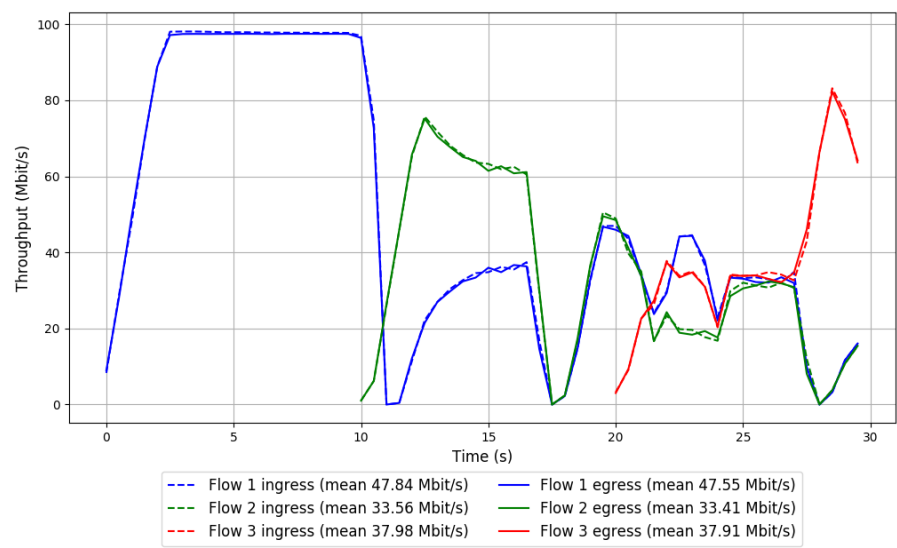


Run 6: Statistics of LEDBAT

Start at: 2017-11-30 22:10:53  
End at: 2017-11-30 22:11:23  
Local clock offset: 3.917 ms  
Remote clock offset: -18.953 ms

# Below is generated by plot.py at 2017-12-01 00:02:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.32 Mbit/s  
95th percentile per-packet one-way delay: 27.493 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 47.55 Mbit/s  
95th percentile per-packet one-way delay: 27.409 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 33.41 Mbit/s  
95th percentile per-packet one-way delay: 28.140 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 37.91 Mbit/s  
95th percentile per-packet one-way delay: 25.876 ms  
Loss rate: 0.07%

Run 6: Report of LEDBAT — Data Link

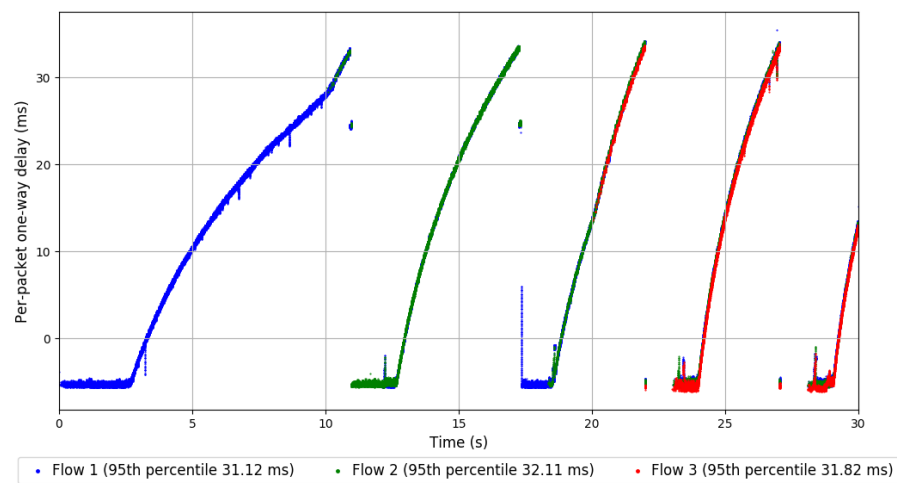
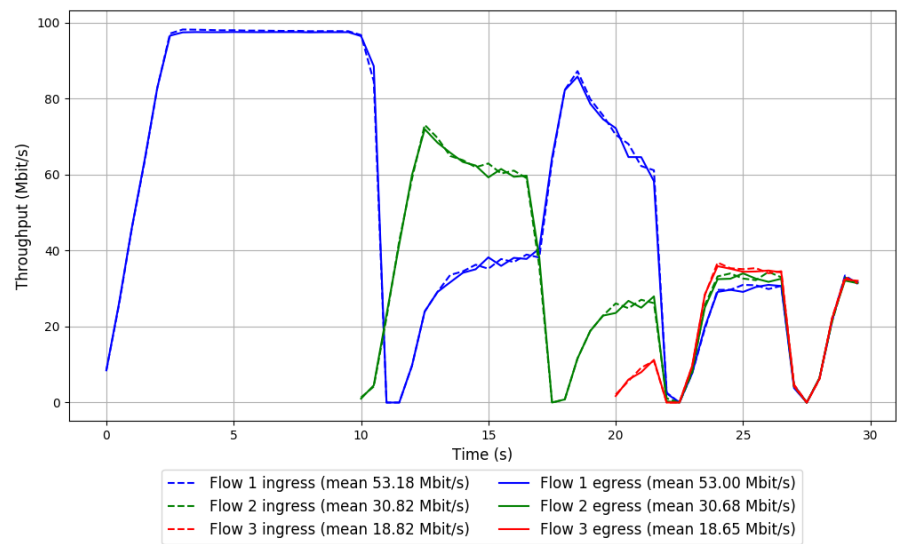


Run 7: Statistics of LEDBAT

Start at: 2017-11-30 22:28:35  
End at: 2017-11-30 22:29:05  
Local clock offset: 2.918 ms  
Remote clock offset: -17.223 ms

# Below is generated by plot.py at 2017-12-01 00:02:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.59 Mbit/s  
95th percentile per-packet one-way delay: 31.573 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 53.00 Mbit/s  
95th percentile per-packet one-way delay: 31.123 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 30.68 Mbit/s  
95th percentile per-packet one-way delay: 32.111 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 18.65 Mbit/s  
95th percentile per-packet one-way delay: 31.825 ms  
Loss rate: 0.89%

Run 7: Report of LEDBAT — Data Link



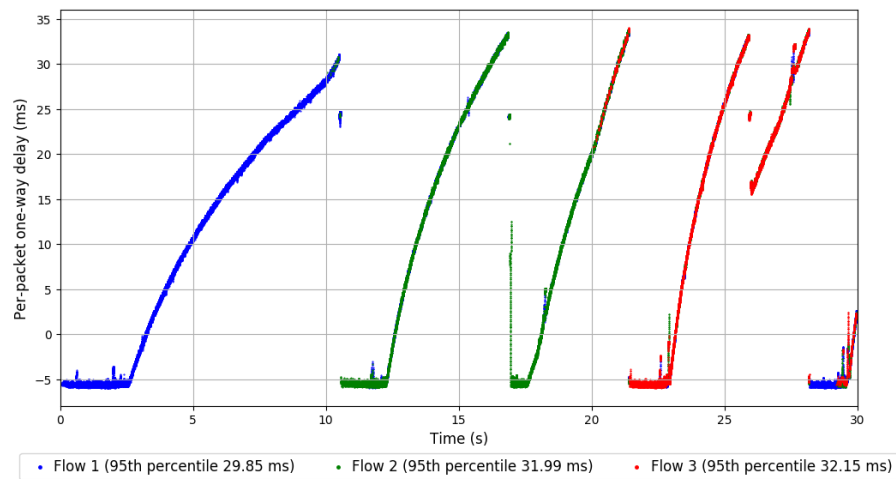
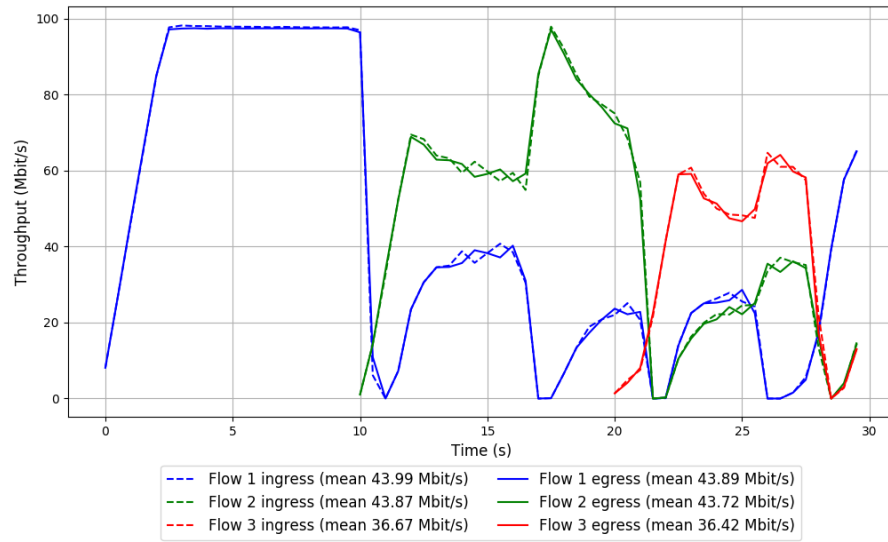
Run 8: Statistics of LEDBAT

Start at: 2017-11-30 22:45:36  
End at: 2017-11-30 22:46:06  
Local clock offset: 1.845 ms  
Remote clock offset: -17.461 ms

# Below is generated by plot.py at 2017-12-01 00:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.97 Mbit/s  
95th percentile per-packet one-way delay: 31.271 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 43.89 Mbit/s  
95th percentile per-packet one-way delay: 29.848 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 43.72 Mbit/s  
95th percentile per-packet one-way delay: 31.989 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 36.42 Mbit/s  
95th percentile per-packet one-way delay: 32.146 ms  
Loss rate: 0.84%



## Run 8: Report of LEDBAT — Data Link

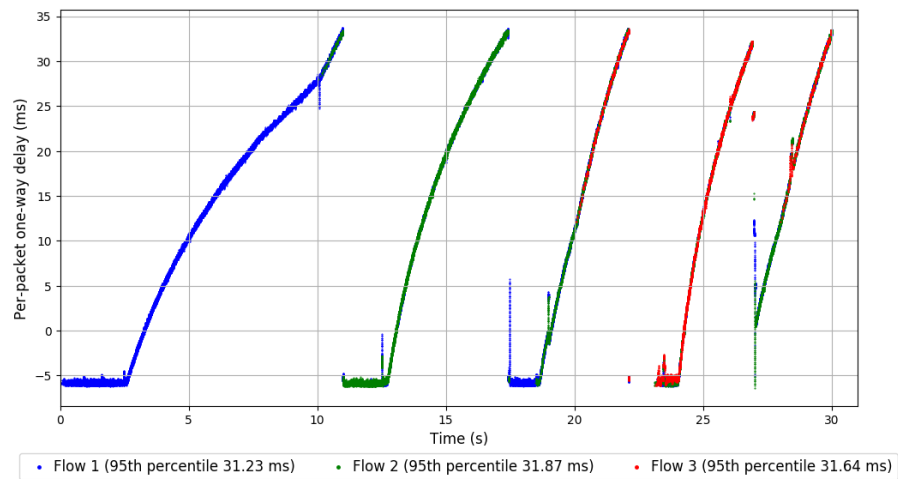
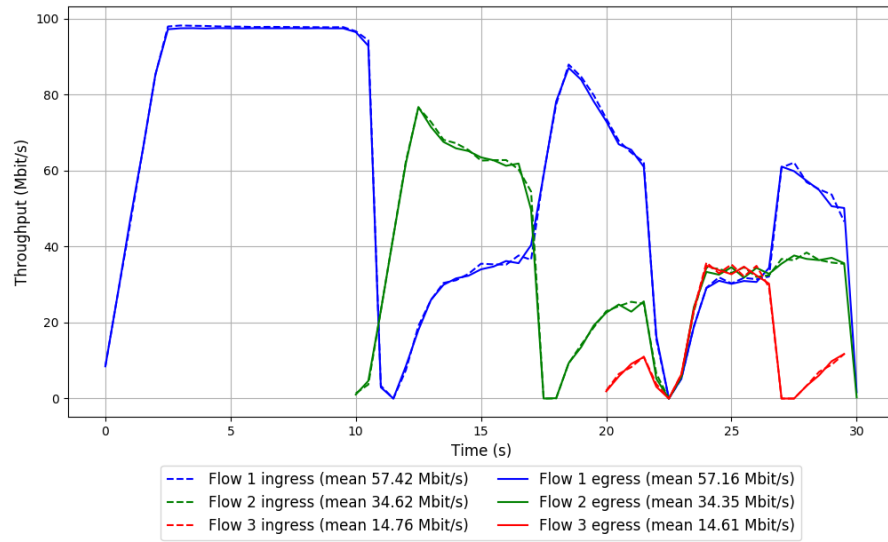


Run 9: Statistics of LEDBAT

Start at: 2017-11-30 23:02:31  
End at: 2017-11-30 23:03:01  
Local clock offset: 0.266 ms  
Remote clock offset: -18.427 ms

# Below is generated by plot.py at 2017-12-01 00:02:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.84 Mbit/s  
95th percentile per-packet one-way delay: 31.467 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 57.16 Mbit/s  
95th percentile per-packet one-way delay: 31.225 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 34.35 Mbit/s  
95th percentile per-packet one-way delay: 31.868 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 14.61 Mbit/s  
95th percentile per-packet one-way delay: 31.643 ms  
Loss rate: 0.82%

# Run 9: Report of LEDBAT — Data Link

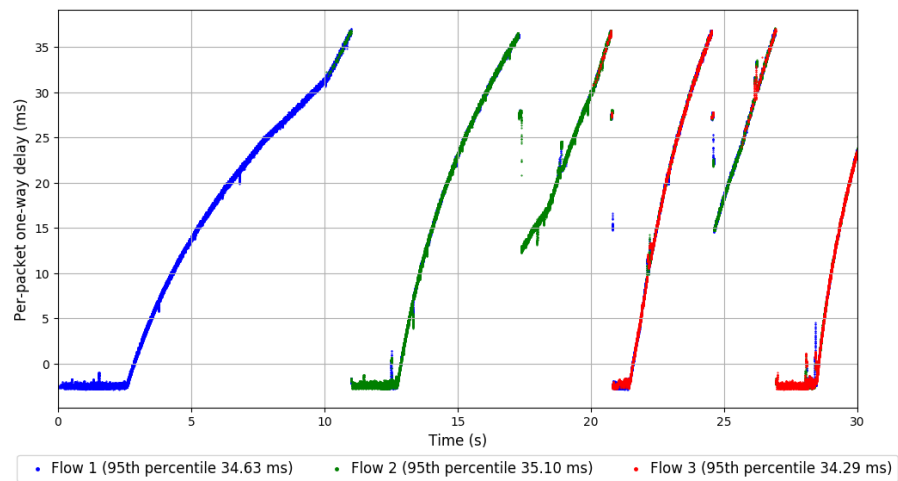
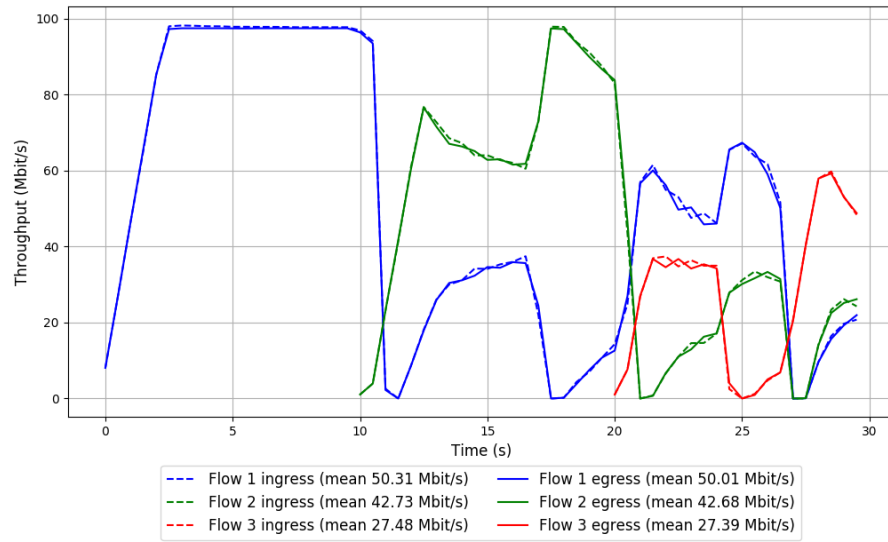


Run 10: Statistics of LEDBAT

Start at: 2017-11-30 23:19:28  
End at: 2017-11-30 23:19:58  
Local clock offset: -3.967 ms  
Remote clock offset: -18.629 ms

# Below is generated by plot.py at 2017-12-01 00:02:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.44 Mbit/s  
95th percentile per-packet one-way delay: 34.805 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 50.01 Mbit/s  
95th percentile per-packet one-way delay: 34.627 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 42.68 Mbit/s  
95th percentile per-packet one-way delay: 35.098 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 27.39 Mbit/s  
95th percentile per-packet one-way delay: 34.292 ms  
Loss rate: 0.42%

# Run 10: Report of LEDBAT — Data Link

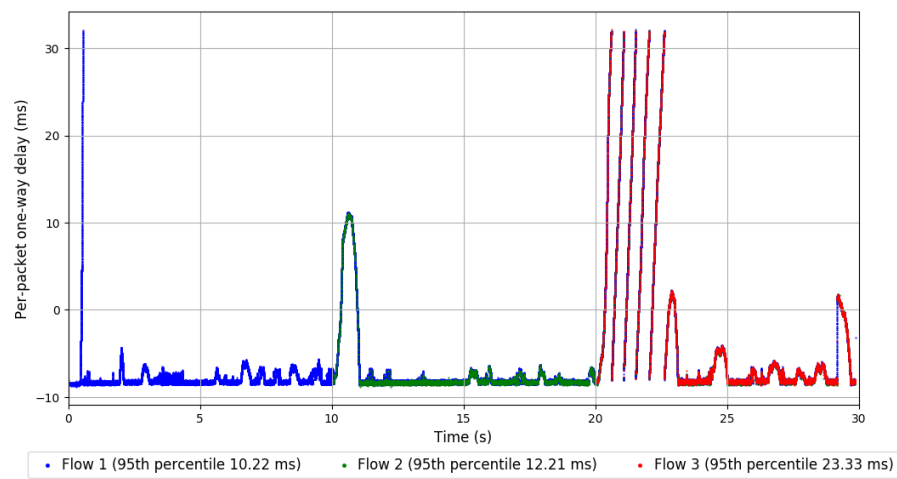
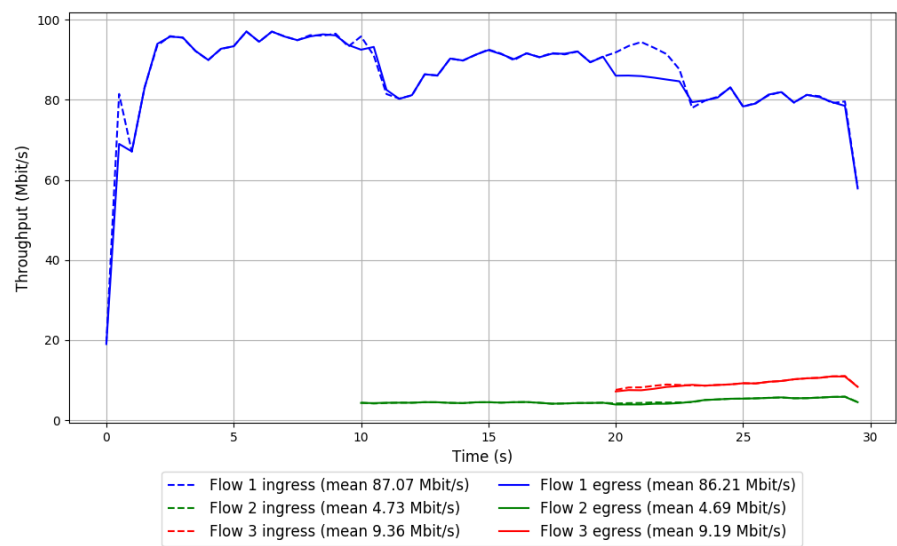


```
Run 1: Statistics of PCC

Start at: 2017-11-30 20:51:55
End at: 2017-11-30 20:52:25
Local clock offset: 3.516 ms
Remote clock offset: -17.128 ms

# Below is generated by plot.py at 2017-12-01 00:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 10.578 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 10.220 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 12.207 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 9.19 Mbit/s
95th percentile per-packet one-way delay: 23.331 ms
Loss rate: 1.83%
```

Run 1: Report of PCC — Data Link



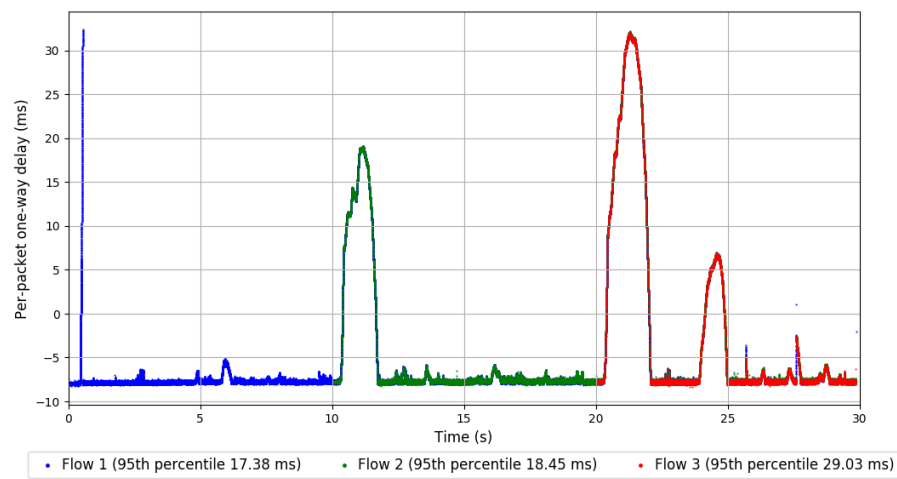
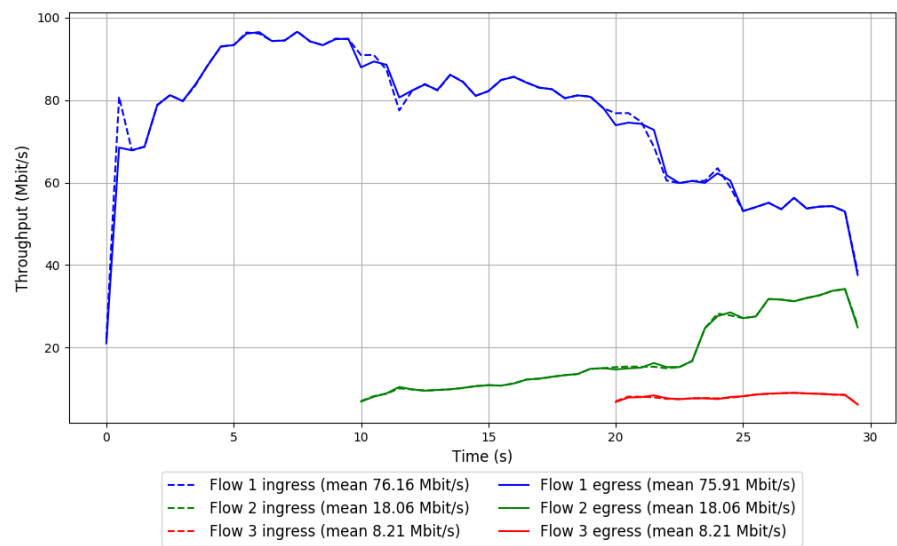
Run 2: Statistics of PCC

Start at: 2017-11-30 21:08:40  
End at: 2017-11-30 21:09:10  
Local clock offset: 3.314 ms  
Remote clock offset: -17.33 ms

# Below is generated by plot.py at 2017-12-01 00:02:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.62 Mbit/s  
95th percentile per-packet one-way delay: 17.963 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 75.91 Mbit/s  
95th percentile per-packet one-way delay: 17.379 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 18.06 Mbit/s  
95th percentile per-packet one-way delay: 18.450 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.21 Mbit/s  
95th percentile per-packet one-way delay: 29.028 ms  
Loss rate: 0.00%



Run 2: Report of PCC — Data Link

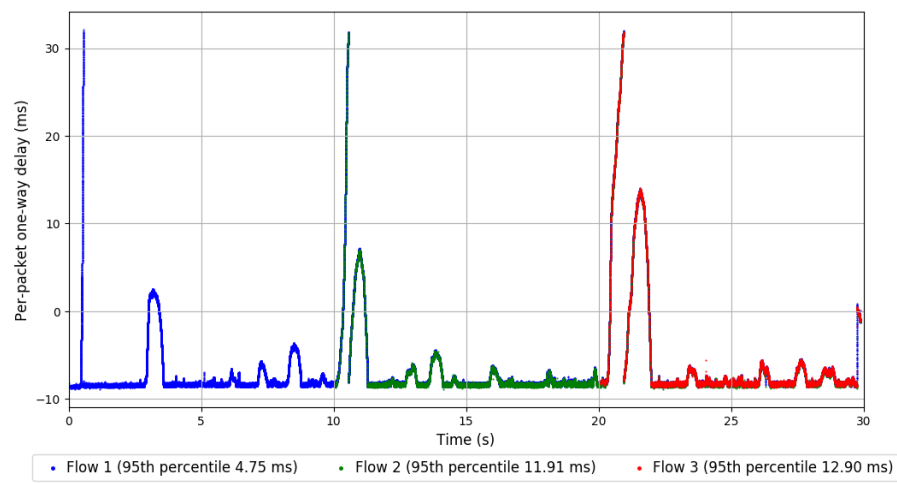
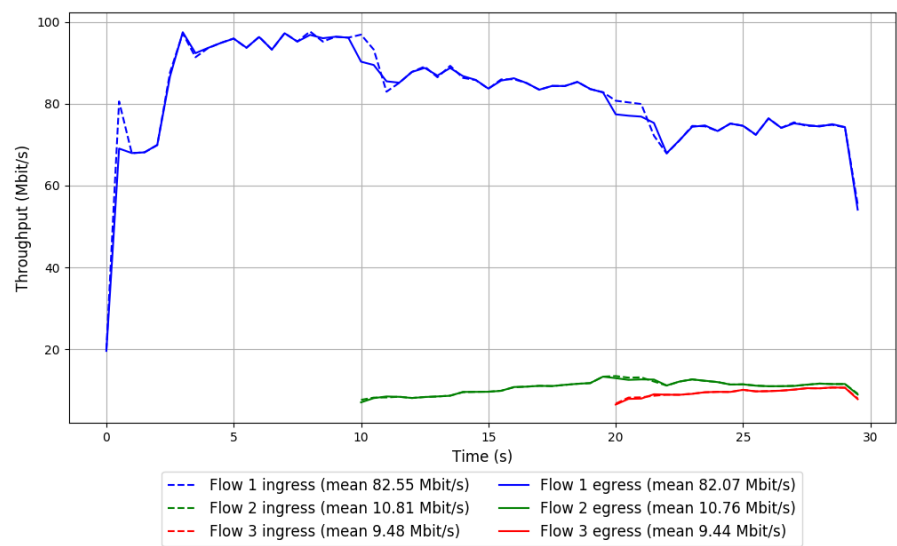


Run 3: Statistics of PCC

Start at: 2017-11-30 21:25:11  
End at: 2017-11-30 21:25:42  
Local clock offset: 3.261 ms  
Remote clock offset: -18.236 ms

# Below is generated by plot.py at 2017-12-01 00:03:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.34 Mbit/s  
95th percentile per-packet one-way delay: 5.680 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 82.07 Mbit/s  
95th percentile per-packet one-way delay: 4.749 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 10.76 Mbit/s  
95th percentile per-packet one-way delay: 11.915 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 12.899 ms  
Loss rate: 0.34%

Run 3: Report of PCC — Data Link

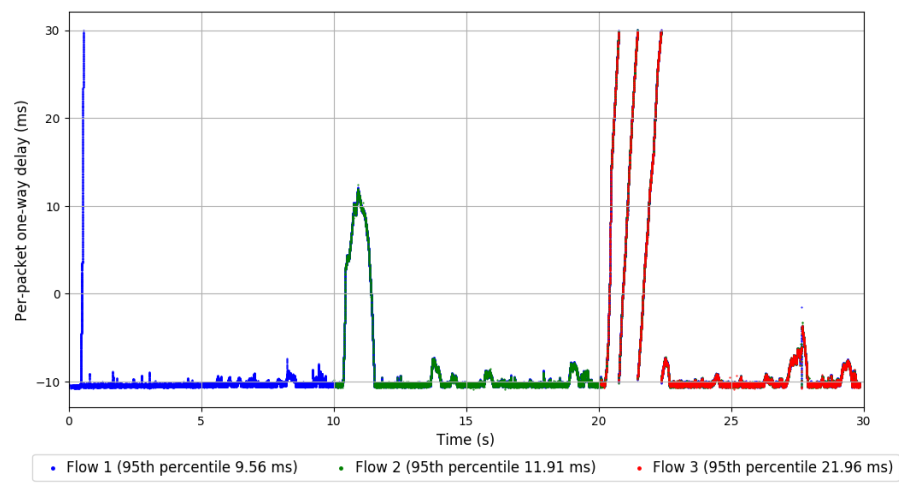
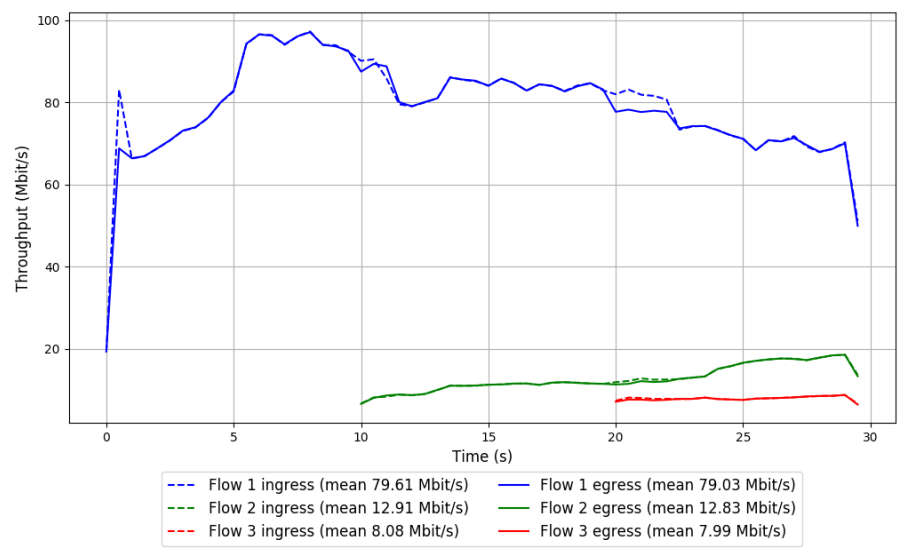


Run 4: Statistics of PCC

Start at: 2017-11-30 21:41:58  
End at: 2017-11-30 21:42:28  
Local clock offset: 4.64 ms  
Remote clock offset: -19.225 ms

# Below is generated by plot.py at 2017-12-01 00:03:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.19 Mbit/s  
95th percentile per-packet one-way delay: 9.934 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 79.03 Mbit/s  
95th percentile per-packet one-way delay: 9.562 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 12.83 Mbit/s  
95th percentile per-packet one-way delay: 11.913 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 7.99 Mbit/s  
95th percentile per-packet one-way delay: 21.958 ms  
Loss rate: 1.17%

Run 4: Report of PCC — Data Link

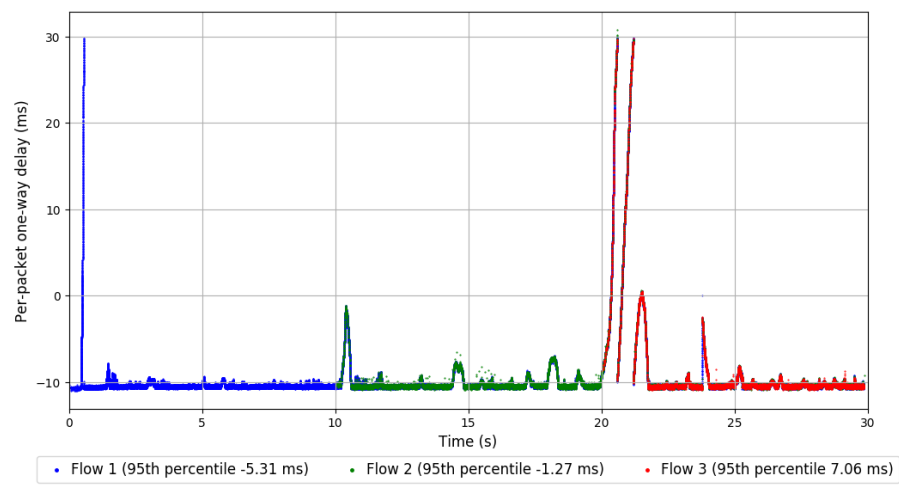
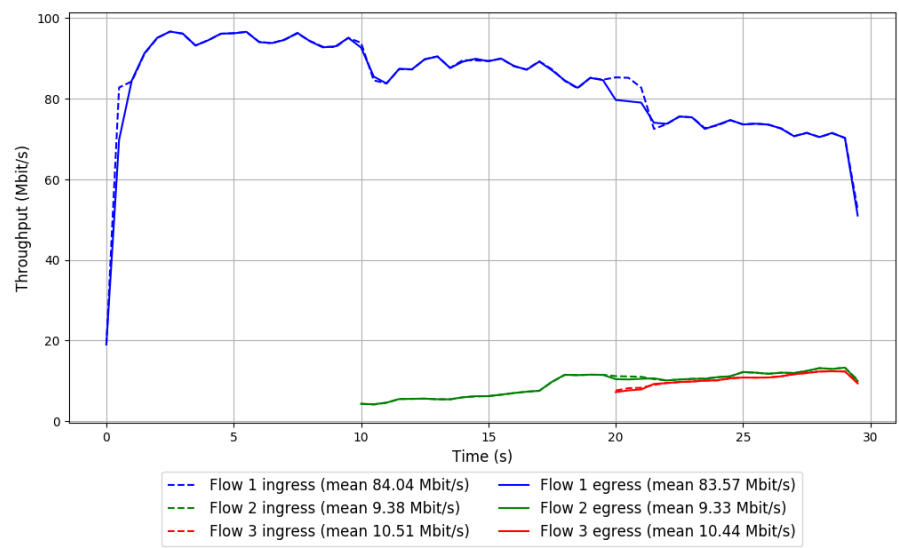


Run 5: Statistics of PCC

Start at: 2017-11-30 21:58:47  
End at: 2017-11-30 21:59:17  
Local clock offset: 5.397 ms  
Remote clock offset: -18.879 ms

# Below is generated by plot.py at 2017-12-01 00:03:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.21 Mbit/s  
95th percentile per-packet one-way delay: -4.439 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 83.57 Mbit/s  
95th percentile per-packet one-way delay: -5.311 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 9.33 Mbit/s  
95th percentile per-packet one-way delay: -1.271 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 10.44 Mbit/s  
95th percentile per-packet one-way delay: 7.062 ms  
Loss rate: 0.65%

Run 5: Report of PCC — Data Link



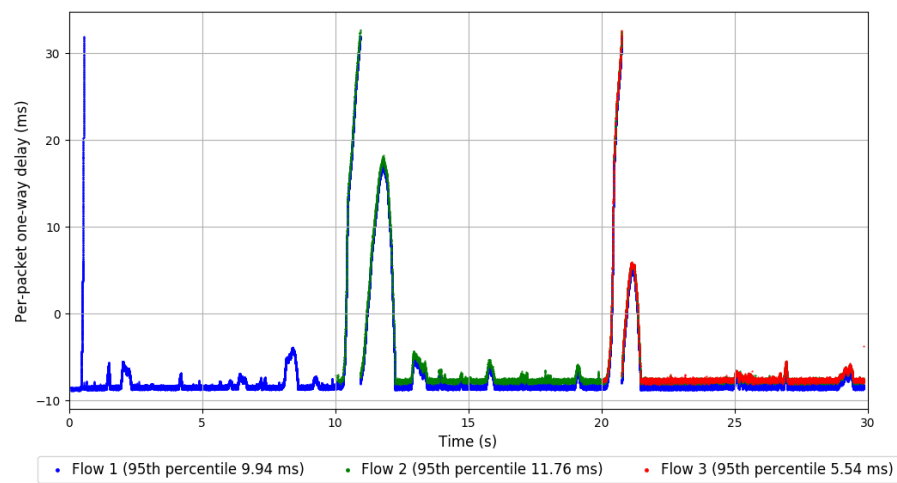
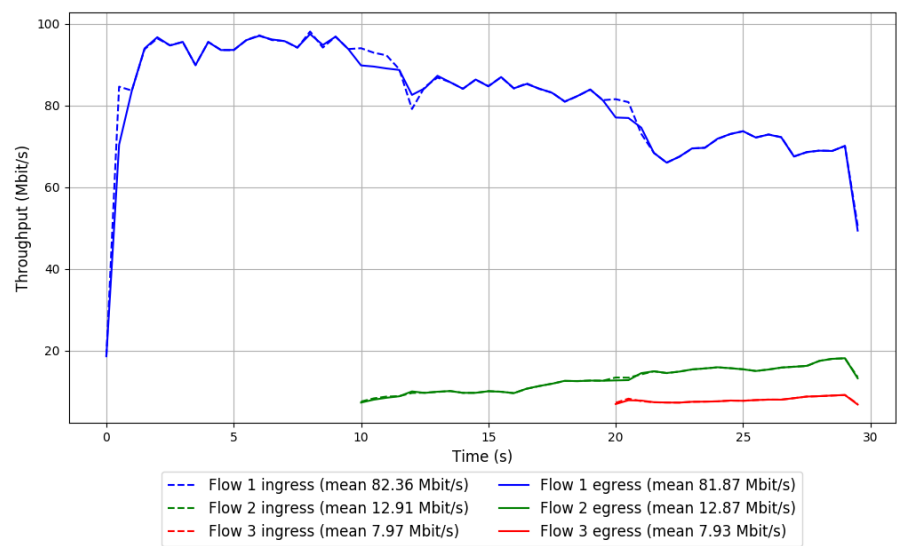
Run 6: Statistics of PCC

Start at: 2017-11-30 22:16:18  
End at: 2017-11-30 22:16:48  
Local clock offset: 5.038 ms  
Remote clock offset: -17.724 ms

# Below is generated by plot.py at 2017-12-01 00:03:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.02 Mbit/s  
95th percentile per-packet one-way delay: 9.979 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 81.87 Mbit/s  
95th percentile per-packet one-way delay: 9.943 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 12.87 Mbit/s  
95th percentile per-packet one-way delay: 11.756 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 7.93 Mbit/s  
95th percentile per-packet one-way delay: 5.536 ms  
Loss rate: 0.42%



Run 6: Report of PCC — Data Link

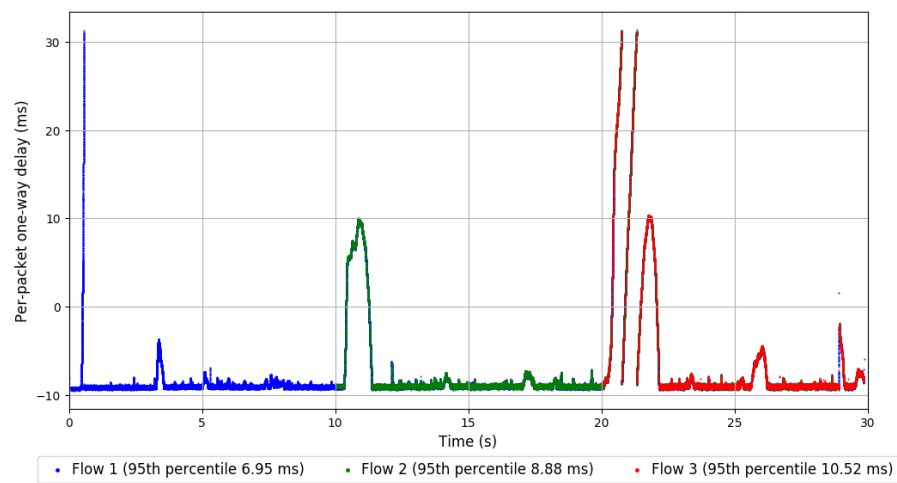
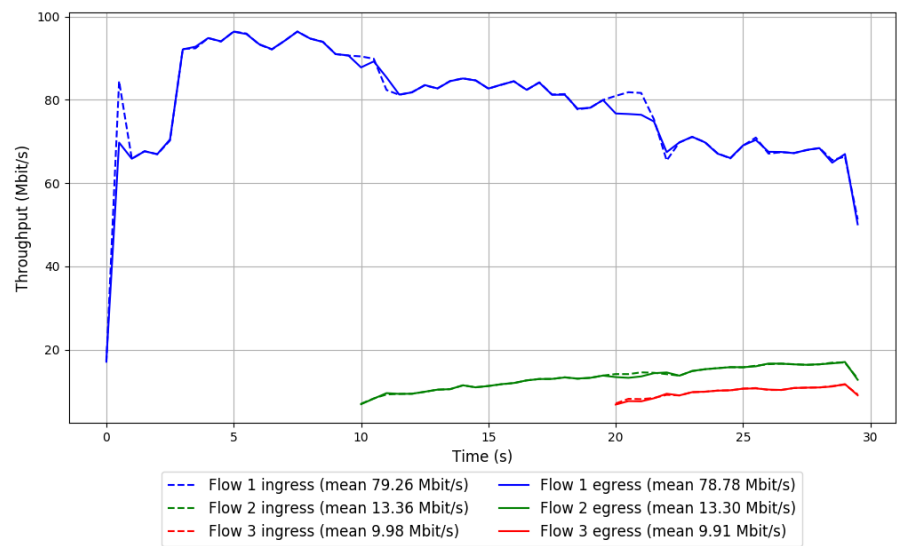


Run 7: Statistics of PCC

Start at: 2017-11-30 22:33:40  
End at: 2017-11-30 22:34:10  
Local clock offset: 2.857 ms  
Remote clock offset: -20.396 ms

# Below is generated by plot.py at 2017-12-01 00:03:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.89 Mbit/s  
95th percentile per-packet one-way delay: 7.171 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 78.78 Mbit/s  
95th percentile per-packet one-way delay: 6.948 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 13.30 Mbit/s  
95th percentile per-packet one-way delay: 8.885 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 9.91 Mbit/s  
95th percentile per-packet one-way delay: 10.518 ms  
Loss rate: 0.66%

Run 7: Report of PCC — Data Link

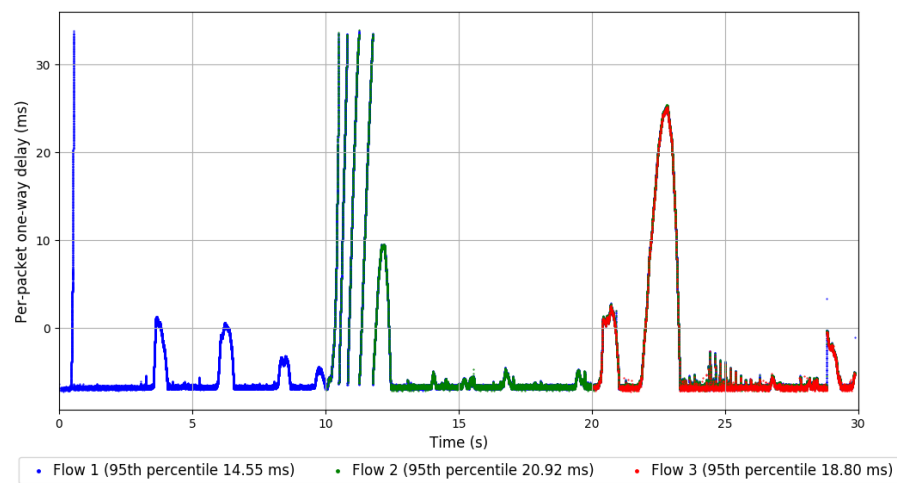
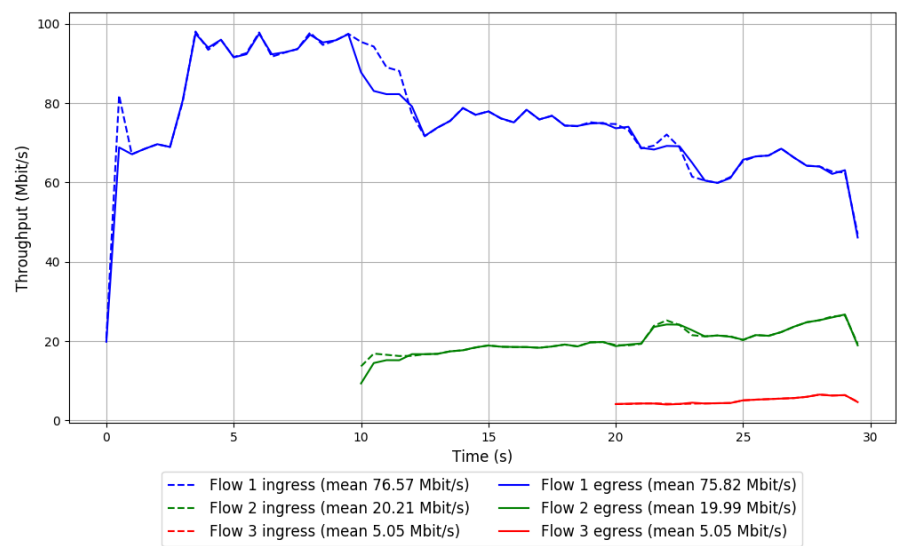


Run 8: Statistics of PCC

Start at: 2017-11-30 22:50:36  
End at: 2017-11-30 22:51:06  
Local clock offset: 1.361 ms  
Remote clock offset: -18.929 ms

# Below is generated by plot.py at 2017-12-01 00:03:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 16.019 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 75.82 Mbit/s  
95th percentile per-packet one-way delay: 14.546 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 19.99 Mbit/s  
95th percentile per-packet one-way delay: 20.922 ms  
Loss rate: 1.11%  
-- Flow 3:  
Average throughput: 5.05 Mbit/s  
95th percentile per-packet one-way delay: 18.803 ms  
Loss rate: 0.00%

Run 8: Report of PCC — Data Link

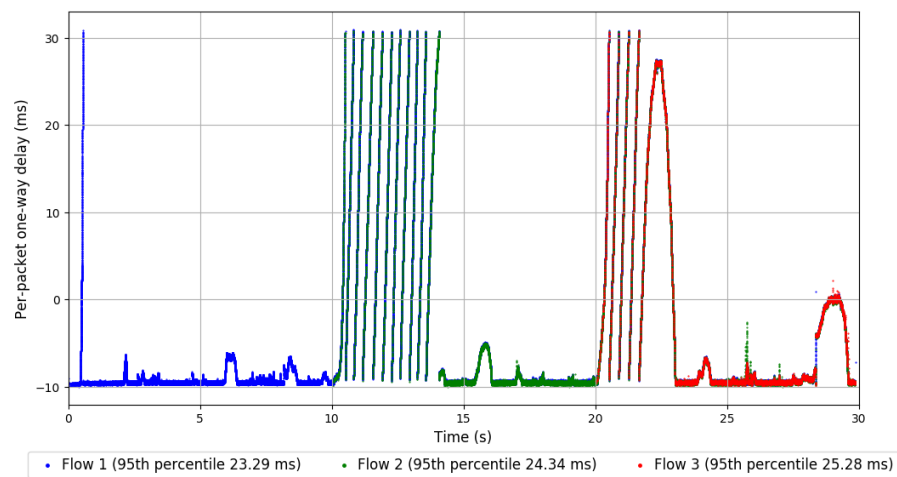
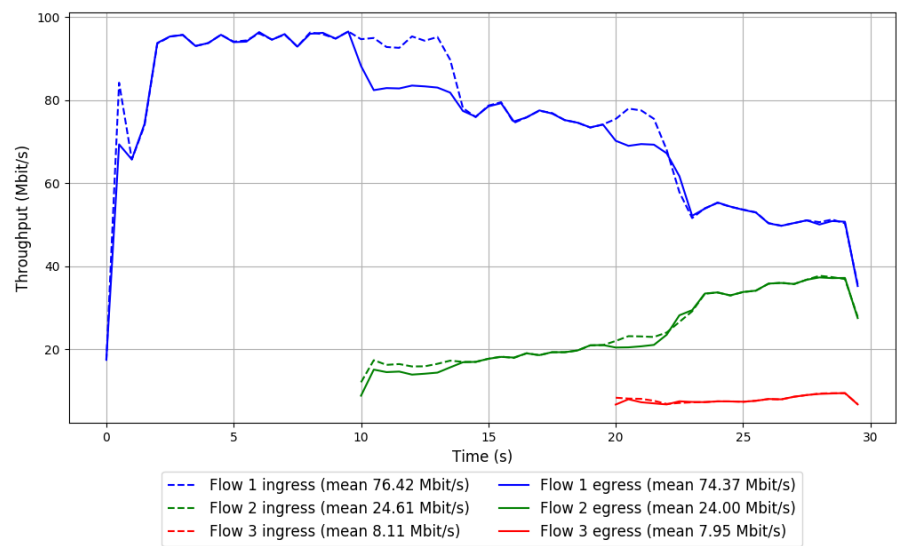


Run 9: Statistics of PCC

Start at: 2017-11-30 23:07:25  
End at: 2017-11-30 23:07:55  
Local clock offset: 2.479 ms  
Remote clock offset: -19.835 ms

# Below is generated by plot.py at 2017-12-01 00:03:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.94 Mbit/s  
95th percentile per-packet one-way delay: 23.577 ms  
Loss rate: 2.62%  
-- Flow 1:  
Average throughput: 74.37 Mbit/s  
95th percentile per-packet one-way delay: 23.293 ms  
Loss rate: 2.67%  
-- Flow 2:  
Average throughput: 24.00 Mbit/s  
95th percentile per-packet one-way delay: 24.342 ms  
Loss rate: 2.48%  
-- Flow 3:  
Average throughput: 7.95 Mbit/s  
95th percentile per-packet one-way delay: 25.280 ms  
Loss rate: 1.90%

Run 9: Report of PCC — Data Link



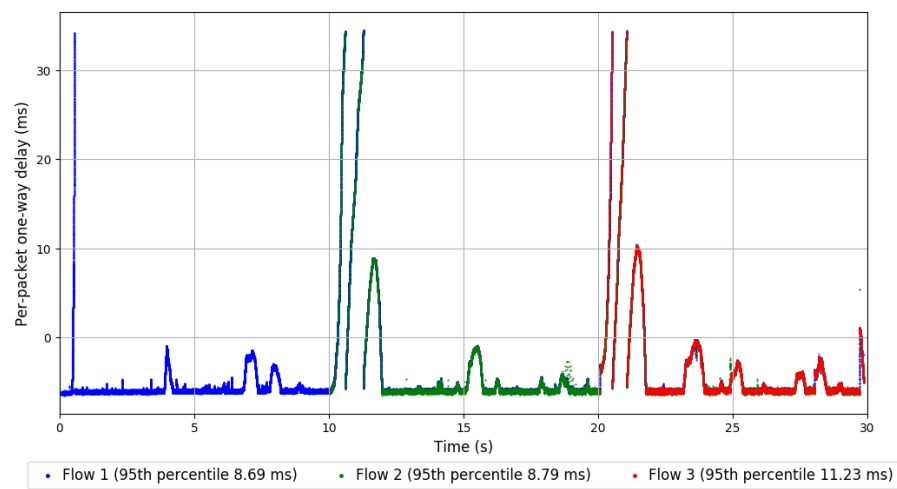
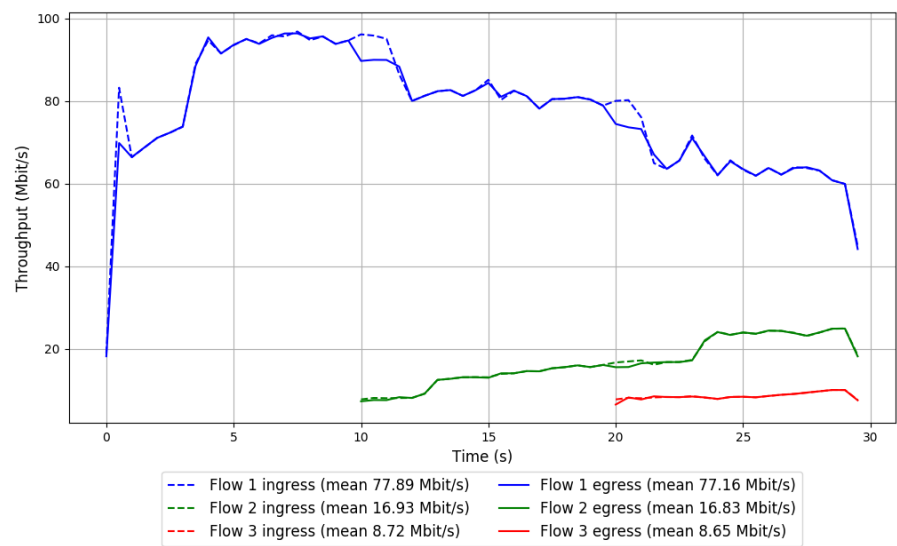
Run 10: Statistics of PCC

Start at: 2017-11-30 23:24:33  
End at: 2017-11-30 23:25:03  
Local clock offset: -0.477 ms  
Remote clock offset: -18.446 ms

# Below is generated by plot.py at 2017-12-01 00:03:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.20 Mbit/s  
95th percentile per-packet one-way delay: 8.752 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 77.16 Mbit/s  
95th percentile per-packet one-way delay: 8.691 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 16.83 Mbit/s  
95th percentile per-packet one-way delay: 8.788 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 8.65 Mbit/s  
95th percentile per-packet one-way delay: 11.229 ms  
Loss rate: 0.75%



Run 10: Report of PCC — Data Link

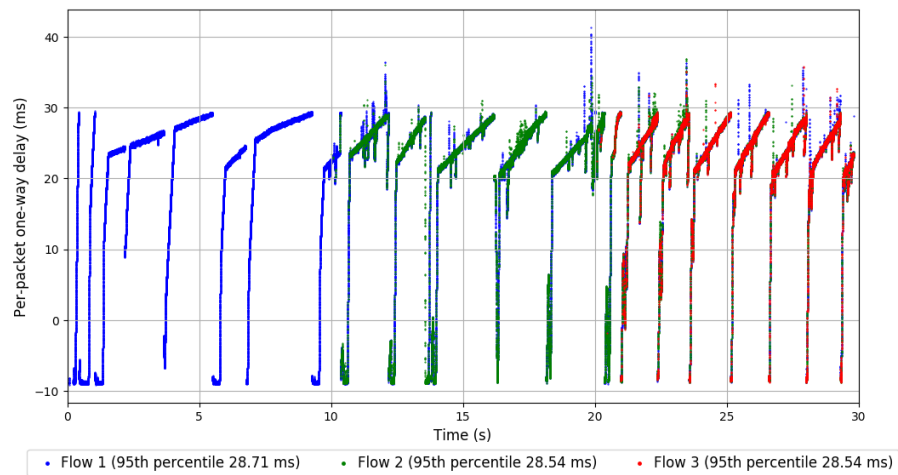
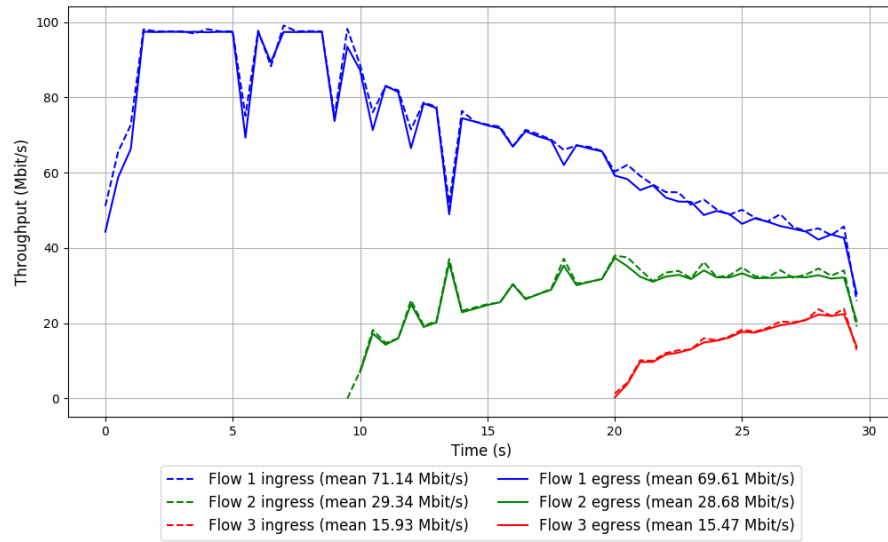


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 20:48:17
End at: 2017-11-30 20:48:47
Local clock offset: 3.71 ms
Remote clock offset: -17.236 ms

# Below is generated by plot.py at 2017-12-01 00:04:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 28.689 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 69.61 Mbit/s
95th percentile per-packet one-way delay: 28.715 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 28.68 Mbit/s
95th percentile per-packet one-way delay: 28.543 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 15.47 Mbit/s
95th percentile per-packet one-way delay: 28.537 ms
Loss rate: 2.88%
```

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

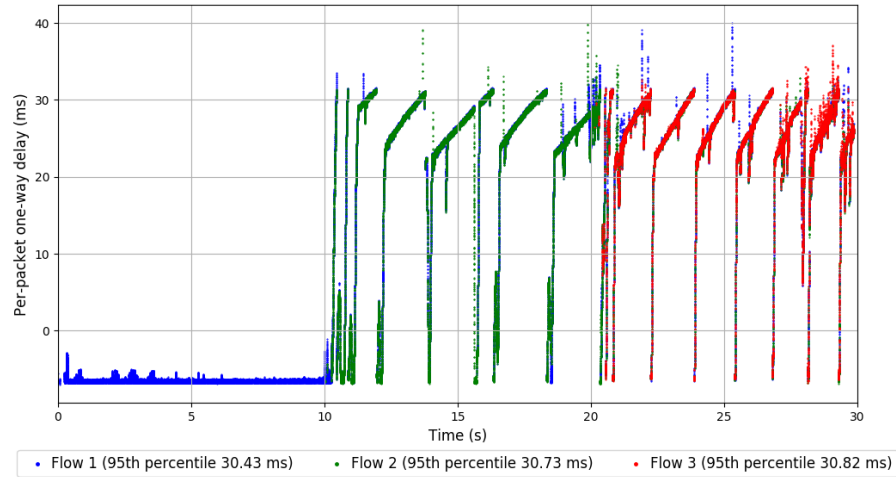
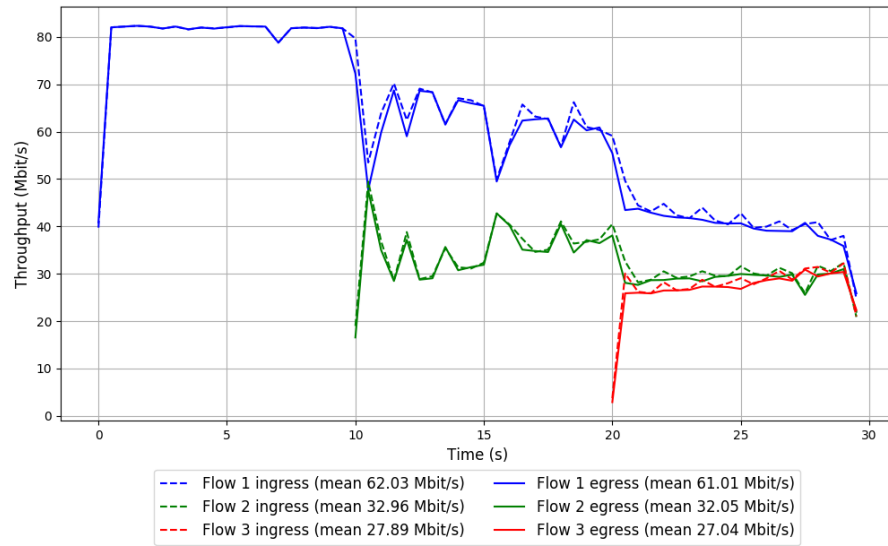


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 21:04:59  
End at: 2017-11-30 21:05:29  
Local clock offset: 2.29 ms  
Remote clock offset: -16.948 ms

# Below is generated by plot.py at 2017-12-01 00:04:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.11 Mbit/s  
95th percentile per-packet one-way delay: 30.559 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 61.01 Mbit/s  
95th percentile per-packet one-way delay: 30.429 ms  
Loss rate: 1.54%  
-- Flow 2:  
Average throughput: 32.05 Mbit/s  
95th percentile per-packet one-way delay: 30.730 ms  
Loss rate: 2.59%  
-- Flow 3:  
Average throughput: 27.04 Mbit/s  
95th percentile per-packet one-way delay: 30.815 ms  
Loss rate: 3.05%

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

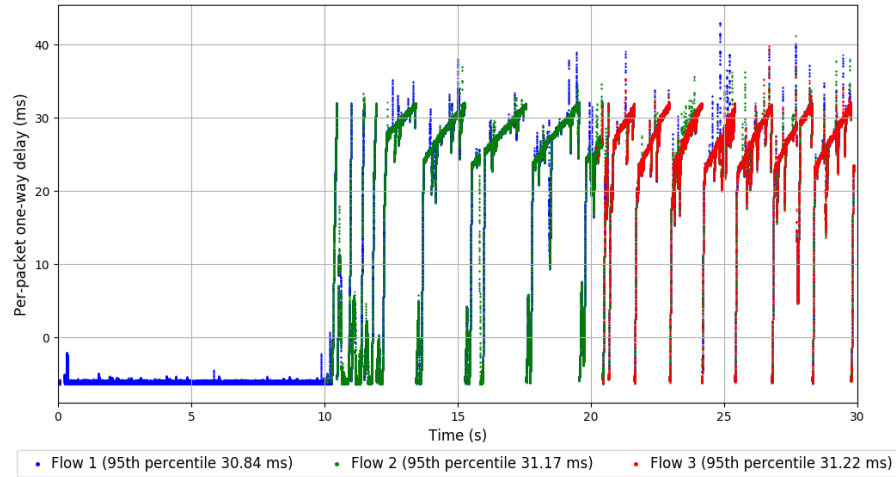
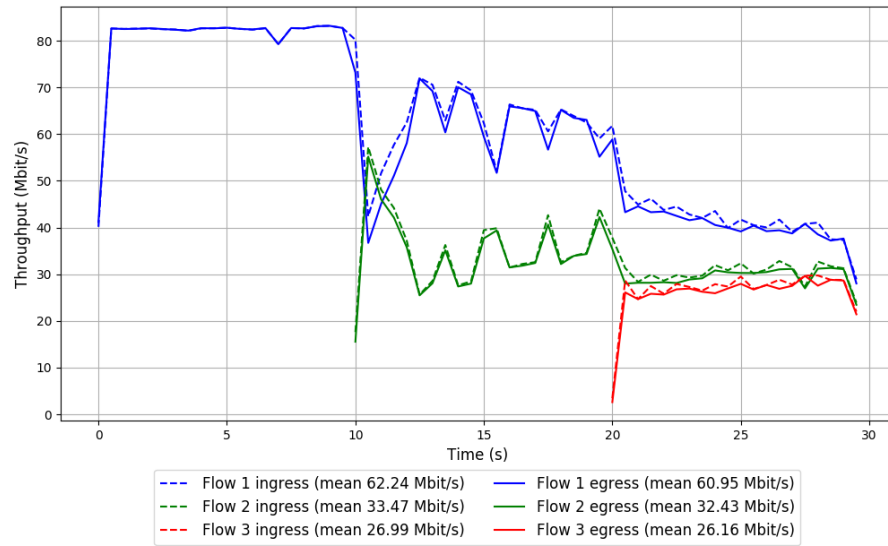


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 21:21:32  
End at: 2017-11-30 21:22:02  
Local clock offset: 2.465 ms  
Remote clock offset: -16.658 ms

# Below is generated by plot.py at 2017-12-01 00:04:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.03 Mbit/s  
95th percentile per-packet one-way delay: 30.998 ms  
Loss rate: 2.31%  
-- Flow 1:  
Average throughput: 60.95 Mbit/s  
95th percentile per-packet one-way delay: 30.837 ms  
Loss rate: 1.98%  
-- Flow 2:  
Average throughput: 32.43 Mbit/s  
95th percentile per-packet one-way delay: 31.166 ms  
Loss rate: 2.96%  
-- Flow 3:  
Average throughput: 26.16 Mbit/s  
95th percentile per-packet one-way delay: 31.219 ms  
Loss rate: 3.06%

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



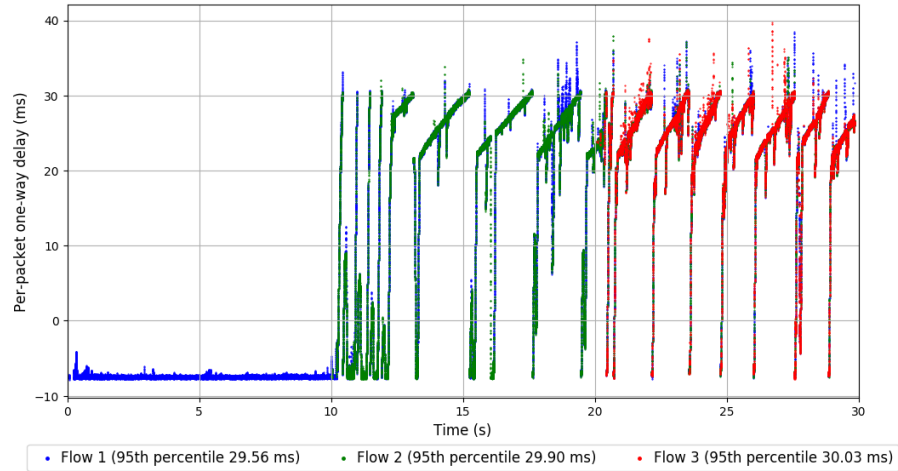
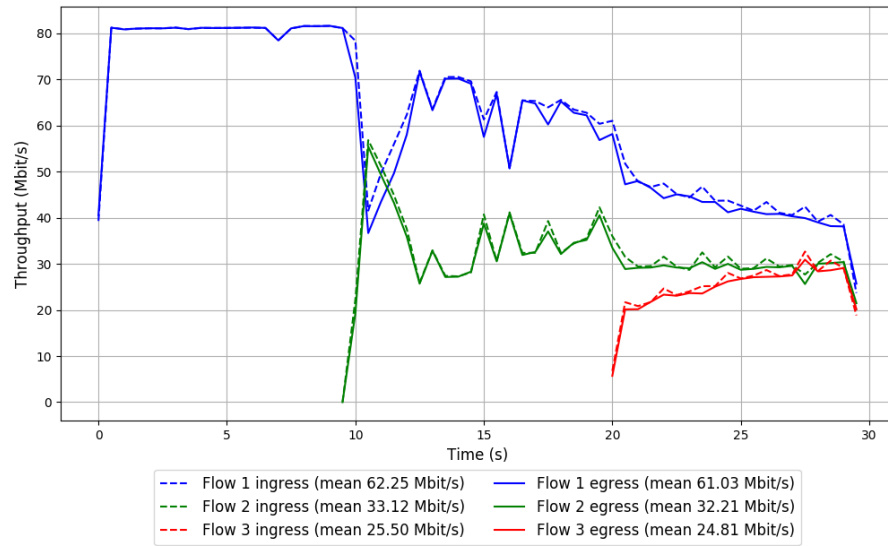
Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 21:38:12  
End at: 2017-11-30 21:38:42  
Local clock offset: 3.628 ms  
Remote clock offset: -17.343 ms

# Below is generated by plot.py at 2017-12-01 00:05:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.61 Mbit/s  
95th percentile per-packet one-way delay: 29.728 ms  
Loss rate: 2.08%  
-- Flow 1:  
Average throughput: 61.03 Mbit/s  
95th percentile per-packet one-way delay: 29.561 ms  
Loss rate: 1.83%  
-- Flow 2:  
Average throughput: 32.21 Mbit/s  
95th percentile per-packet one-way delay: 29.901 ms  
Loss rate: 2.58%  
-- Flow 3:  
Average throughput: 24.81 Mbit/s  
95th percentile per-packet one-way delay: 30.027 ms  
Loss rate: 2.69%



# Run 4: Report of QUIC Cubic — Data Link

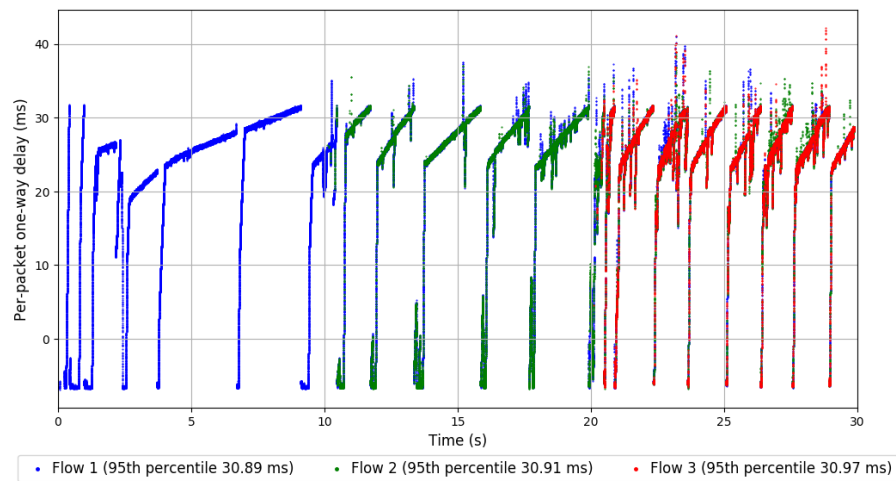
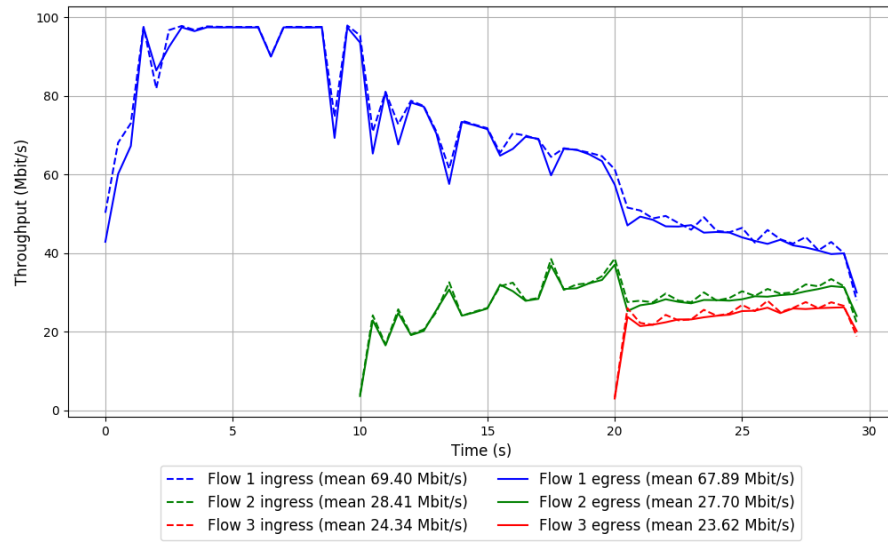


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 21:55:04  
End at: 2017-11-30 21:55:34  
Local clock offset: 2.356 ms  
Remote clock offset: -17.964 ms

# Below is generated by plot.py at 2017-12-01 00:05:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.96 Mbit/s  
95th percentile per-packet one-way delay: 30.904 ms  
Loss rate: 2.20%  
-- Flow 1:  
Average throughput: 67.89 Mbit/s  
95th percentile per-packet one-way delay: 30.888 ms  
Loss rate: 2.06%  
-- Flow 2:  
Average throughput: 27.70 Mbit/s  
95th percentile per-packet one-way delay: 30.913 ms  
Loss rate: 2.49%  
-- Flow 3:  
Average throughput: 23.62 Mbit/s  
95th percentile per-packet one-way delay: 30.970 ms  
Loss rate: 2.70%

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

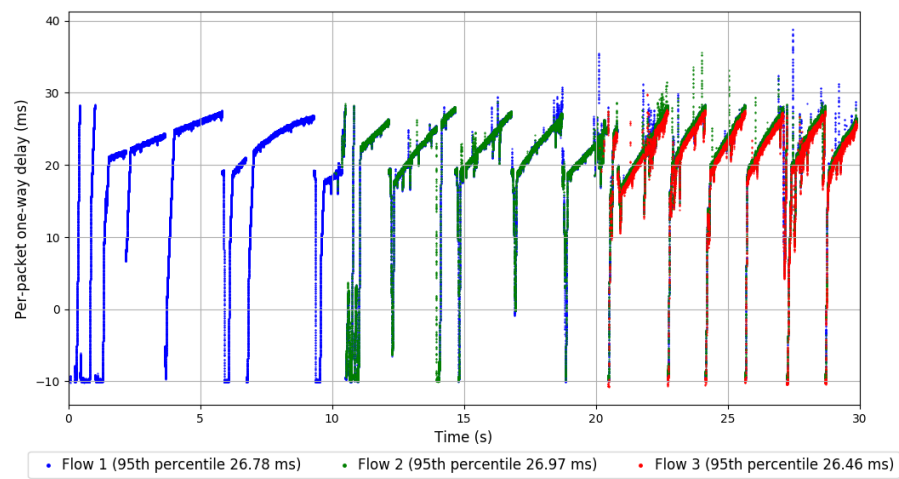
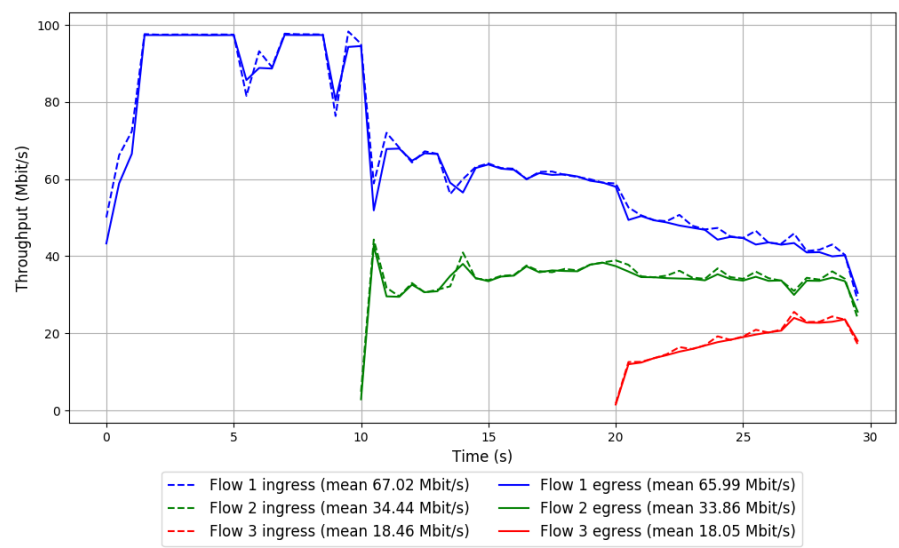


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 22:12:16  
End at: 2017-11-30 22:12:46  
Local clock offset: 6.279 ms  
Remote clock offset: -18.611 ms

# Below is generated by plot.py at 2017-12-01 00:05:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.31 Mbit/s  
95th percentile per-packet one-way delay: 26.799 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 65.99 Mbit/s  
95th percentile per-packet one-way delay: 26.783 ms  
Loss rate: 1.43%  
-- Flow 2:  
Average throughput: 33.86 Mbit/s  
95th percentile per-packet one-way delay: 26.968 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 18.05 Mbit/s  
95th percentile per-packet one-way delay: 26.458 ms  
Loss rate: 2.22%

Run 6: Report of QUIC Cubic — Data Link

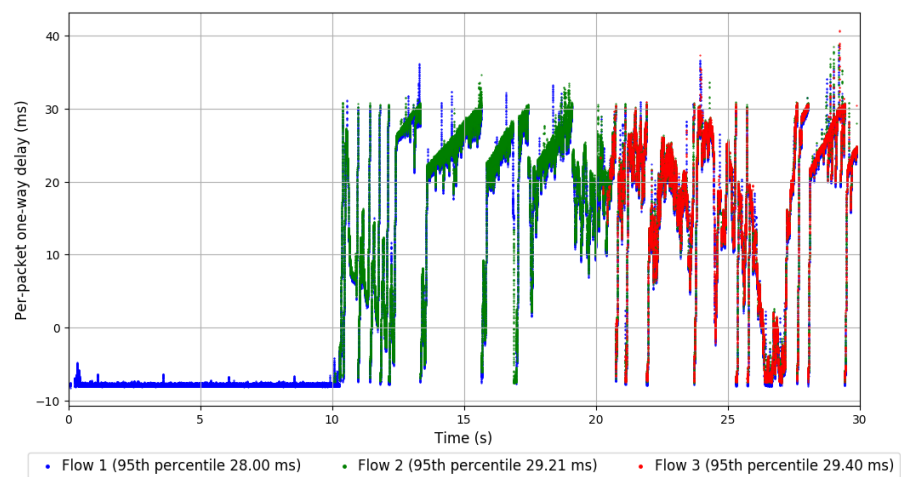
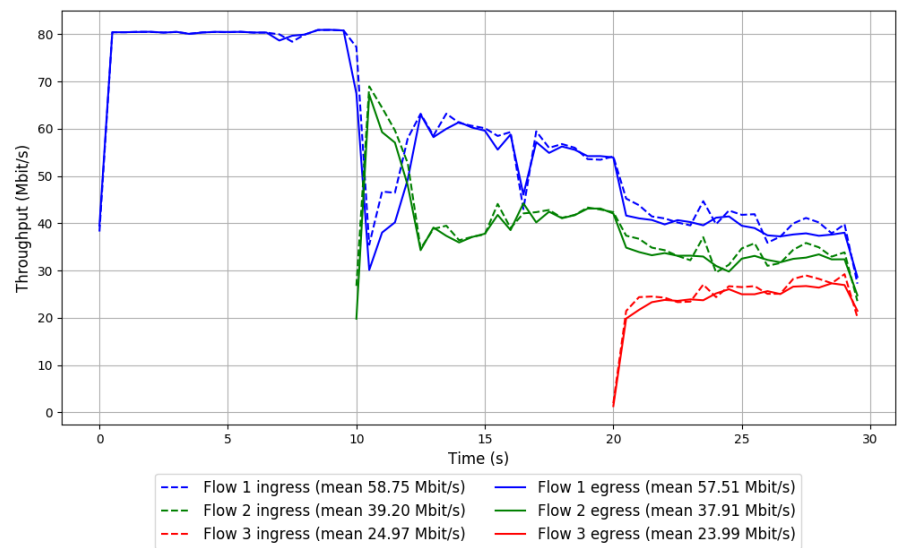


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 22:29:52  
End at: 2017-11-30 22:30:22  
Local clock offset: 3.474 ms  
Remote clock offset: -18.631 ms

# Below is generated by plot.py at 2017-12-01 00:05:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.52 Mbit/s  
95th percentile per-packet one-way delay: 28.553 ms  
Loss rate: 2.48%  
-- Flow 1:  
Average throughput: 57.51 Mbit/s  
95th percentile per-packet one-way delay: 28.003 ms  
Loss rate: 2.00%  
-- Flow 2:  
Average throughput: 37.91 Mbit/s  
95th percentile per-packet one-way delay: 29.207 ms  
Loss rate: 3.14%  
-- Flow 3:  
Average throughput: 23.99 Mbit/s  
95th percentile per-packet one-way delay: 29.402 ms  
Loss rate: 3.78%

Run 7: Report of QUIC Cubic — Data Link



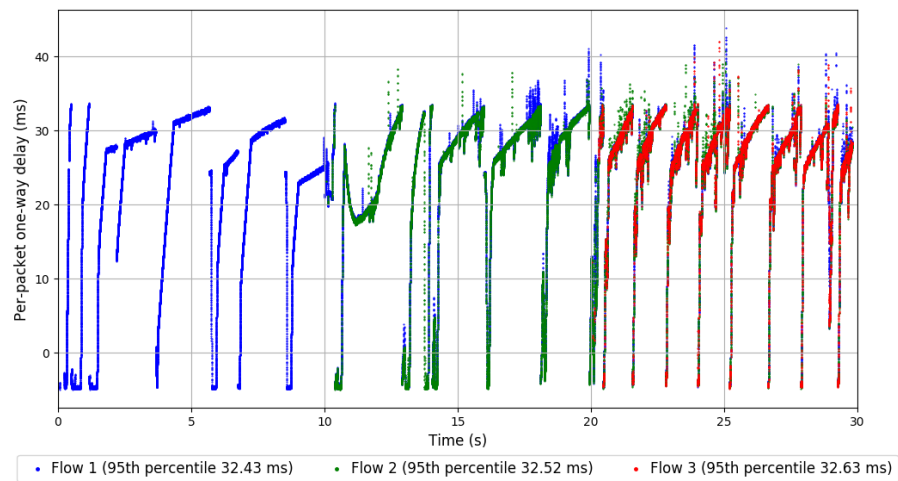
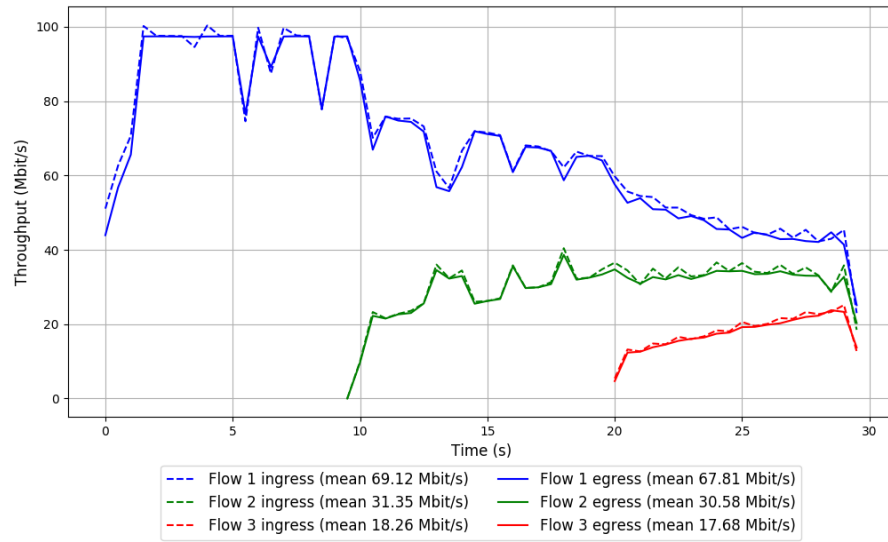
Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 22:46:51  
End at: 2017-11-30 22:47:21  
Local clock offset: 0.152 ms  
Remote clock offset: -18.152 ms

# Below is generated by plot.py at 2017-12-01 00:05:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.93 Mbit/s  
95th percentile per-packet one-way delay: 32.463 ms  
Loss rate: 2.00%  
-- Flow 1:  
Average throughput: 67.81 Mbit/s  
95th percentile per-packet one-way delay: 32.434 ms  
Loss rate: 1.80%  
-- Flow 2:  
Average throughput: 30.58 Mbit/s  
95th percentile per-packet one-way delay: 32.520 ms  
Loss rate: 2.40%  
-- Flow 3:  
Average throughput: 17.68 Mbit/s  
95th percentile per-packet one-way delay: 32.629 ms  
Loss rate: 3.01%



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

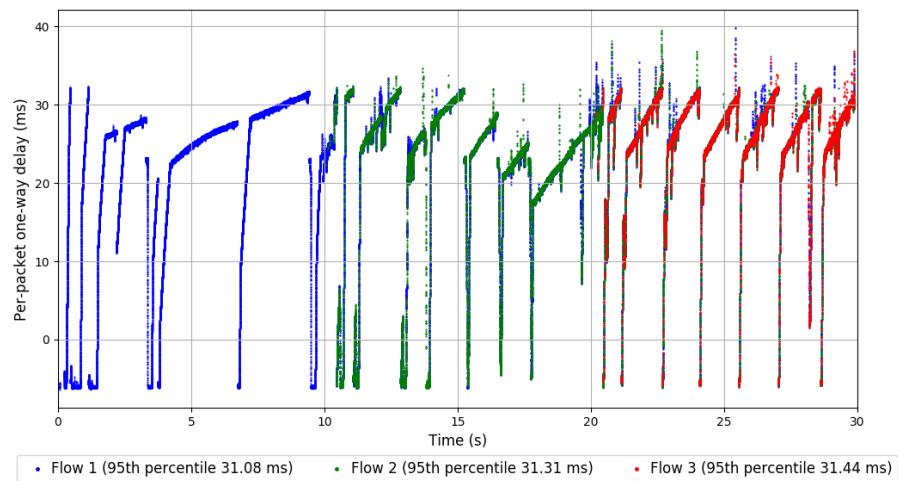
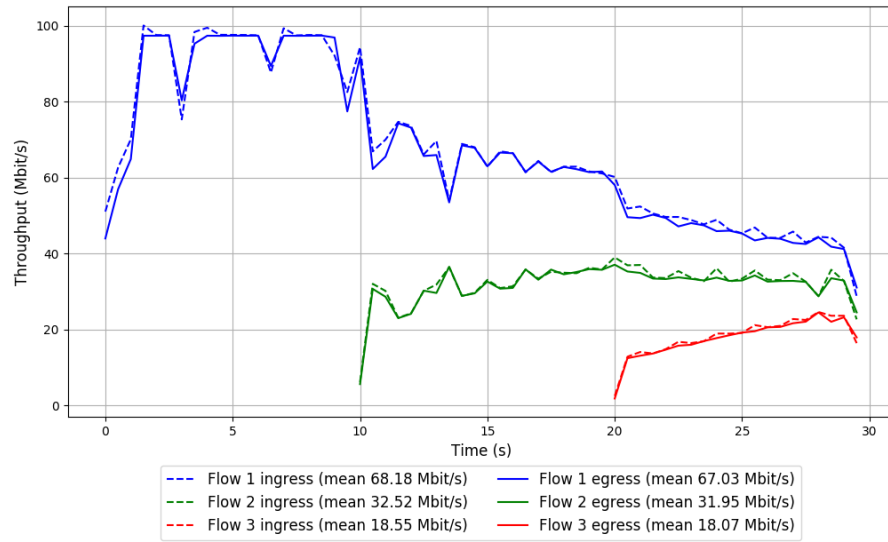


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 23:03:44  
End at: 2017-11-30 23:04:14  
Local clock offset: 0.327 ms  
Remote clock offset: -18.349 ms

# Below is generated by plot.py at 2017-12-01 00:06:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.11 Mbit/s  
95th percentile per-packet one-way delay: 31.151 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 67.03 Mbit/s  
95th percentile per-packet one-way delay: 31.076 ms  
Loss rate: 1.57%  
-- Flow 2:  
Average throughput: 31.95 Mbit/s  
95th percentile per-packet one-way delay: 31.308 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 18.07 Mbit/s  
95th percentile per-packet one-way delay: 31.444 ms  
Loss rate: 2.55%

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



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 23:20:44

End at: 2017-11-30 23:21:14

Local clock offset: -1.664 ms

Remote clock offset: -21.176 ms

# Below is generated by plot.py at 2017-12-01 00:06:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 29.031 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 65.60 Mbit/s

95th percentile per-packet one-way delay: 28.792 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 29.228 ms

Loss rate: 2.08%

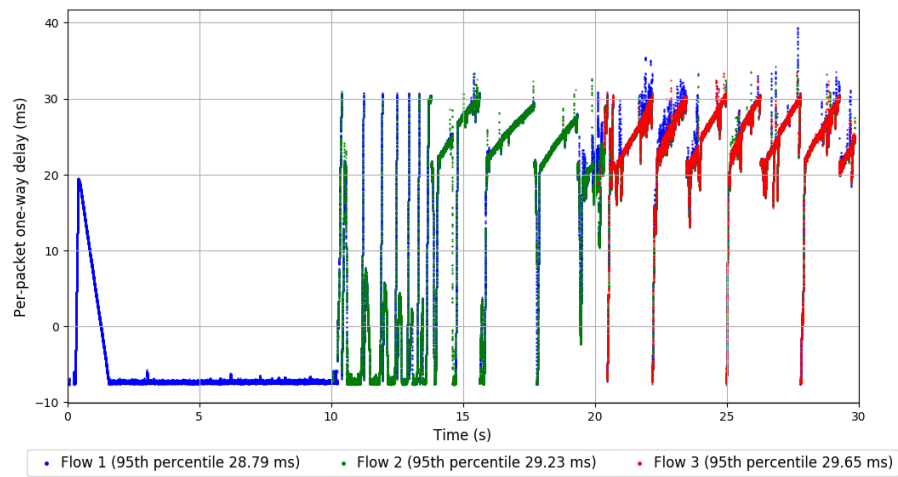
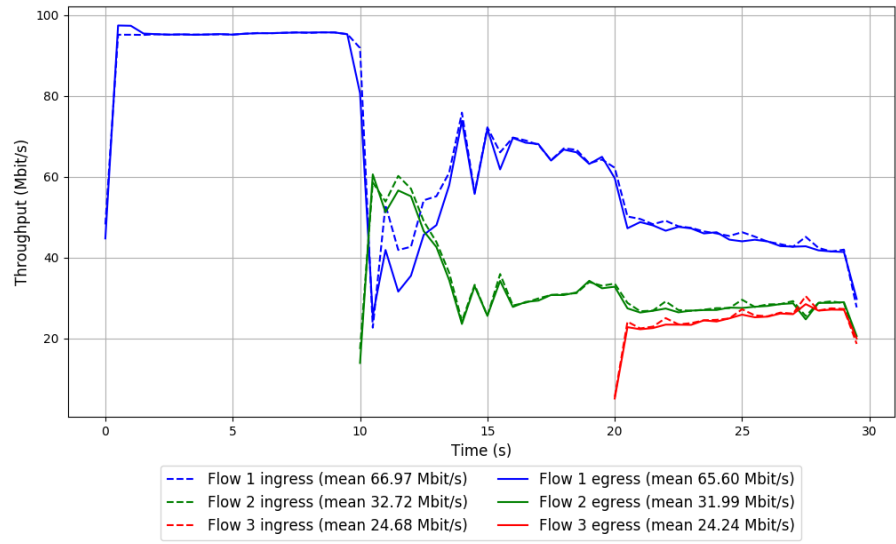
-- Flow 3:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 29.653 ms

Loss rate: 1.72%

# Run 10: Report of QUIC Cubic — Data Link

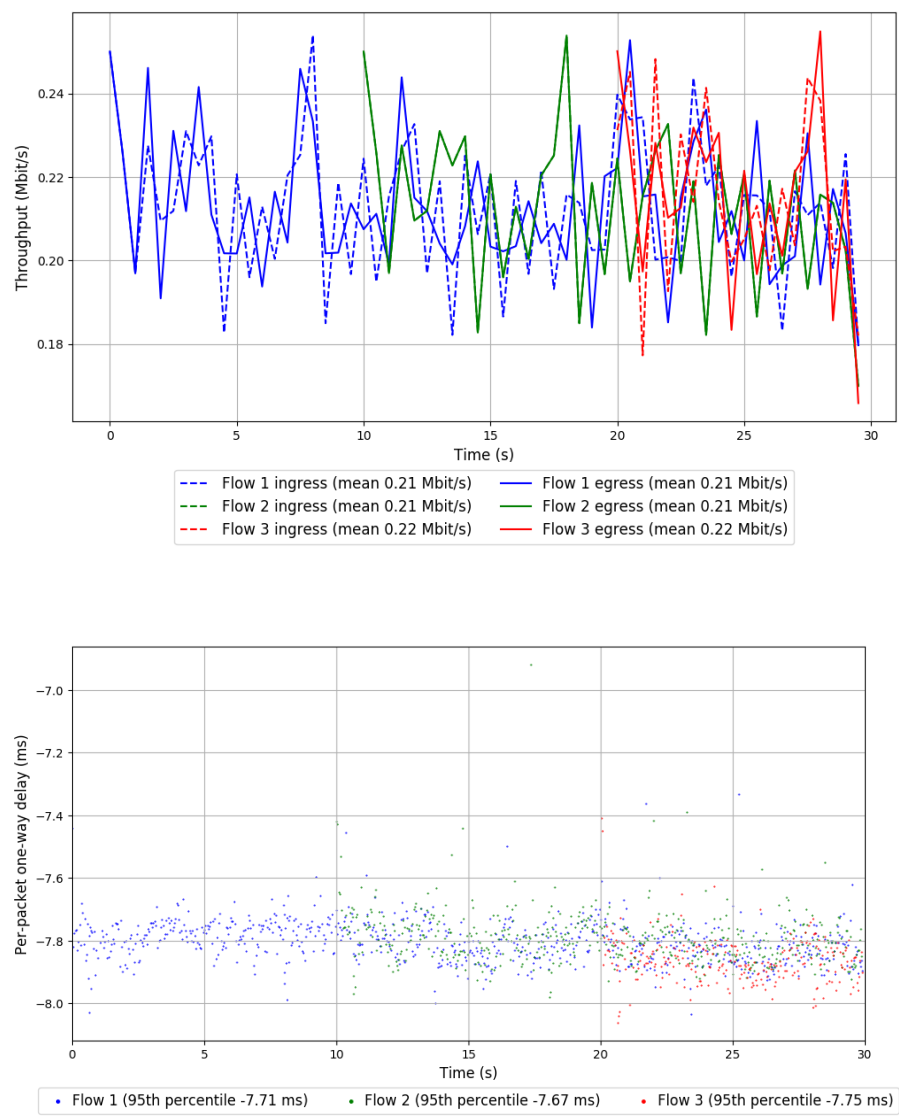


Run 1: Statistics of SReAM

Start at: 2017-11-30 20:45:57  
End at: 2017-11-30 20:46:27  
Local clock offset: 3.12 ms  
Remote clock offset: -16.899 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -7.699 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -7.707 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -7.669 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -7.753 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



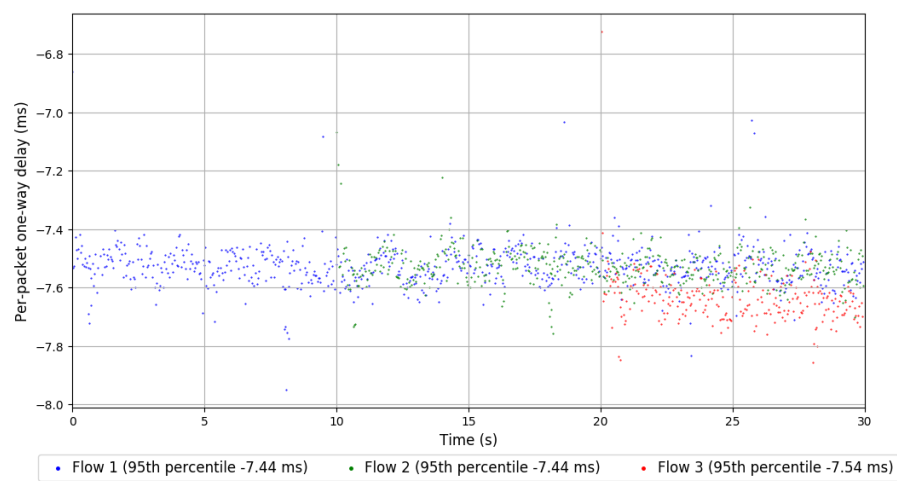
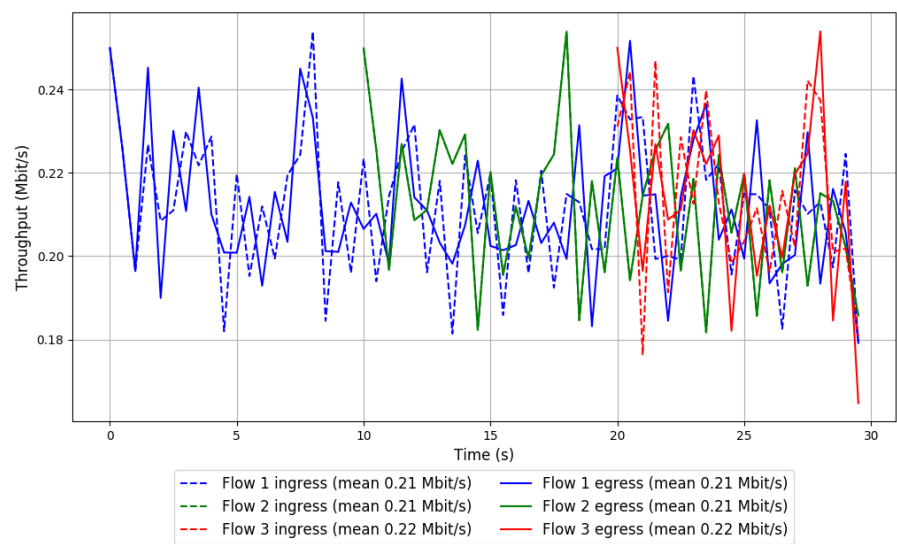
Run 2: Statistics of SReAM

Start at: 2017-11-30 21:02:41  
End at: 2017-11-30 21:03:11  
Local clock offset: 2.183 ms  
Remote clock offset: -17.685 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -7.440 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -7.436 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -7.436 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -7.535 ms  
Loss rate: 0.00%



Run 2: Report of SReAM — Data Link

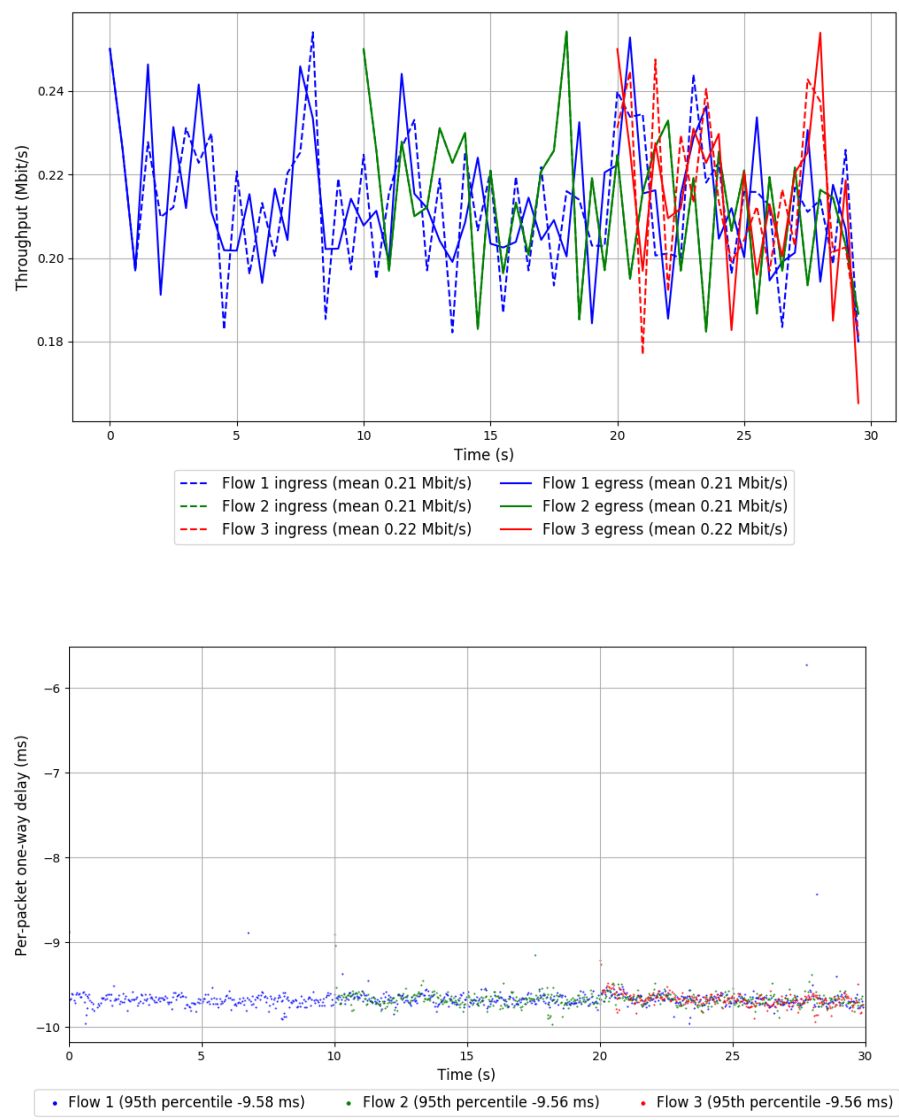


Run 3: Statistics of SReAM

Start at: 2017-11-30 21:19:14  
End at: 2017-11-30 21:19:44  
Local clock offset: 4.059 ms  
Remote clock offset: -18.525 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -9.569 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -9.583 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -9.562 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -9.562 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

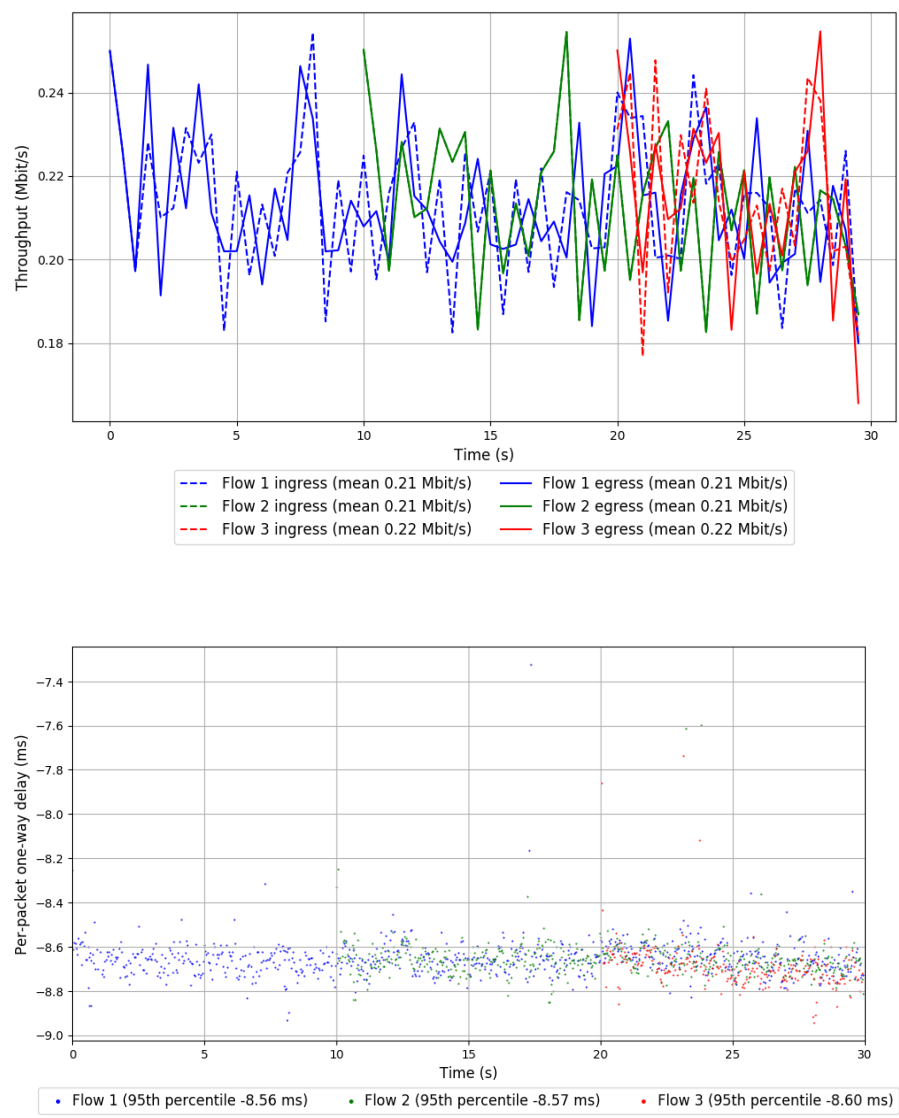


Run 4: Statistics of SReAM

Start at: 2017-11-30 21:35:53  
End at: 2017-11-30 21:36:23  
Local clock offset: 3.977 ms  
Remote clock offset: -18.084 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -8.564 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -8.558 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -8.567 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -8.597 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

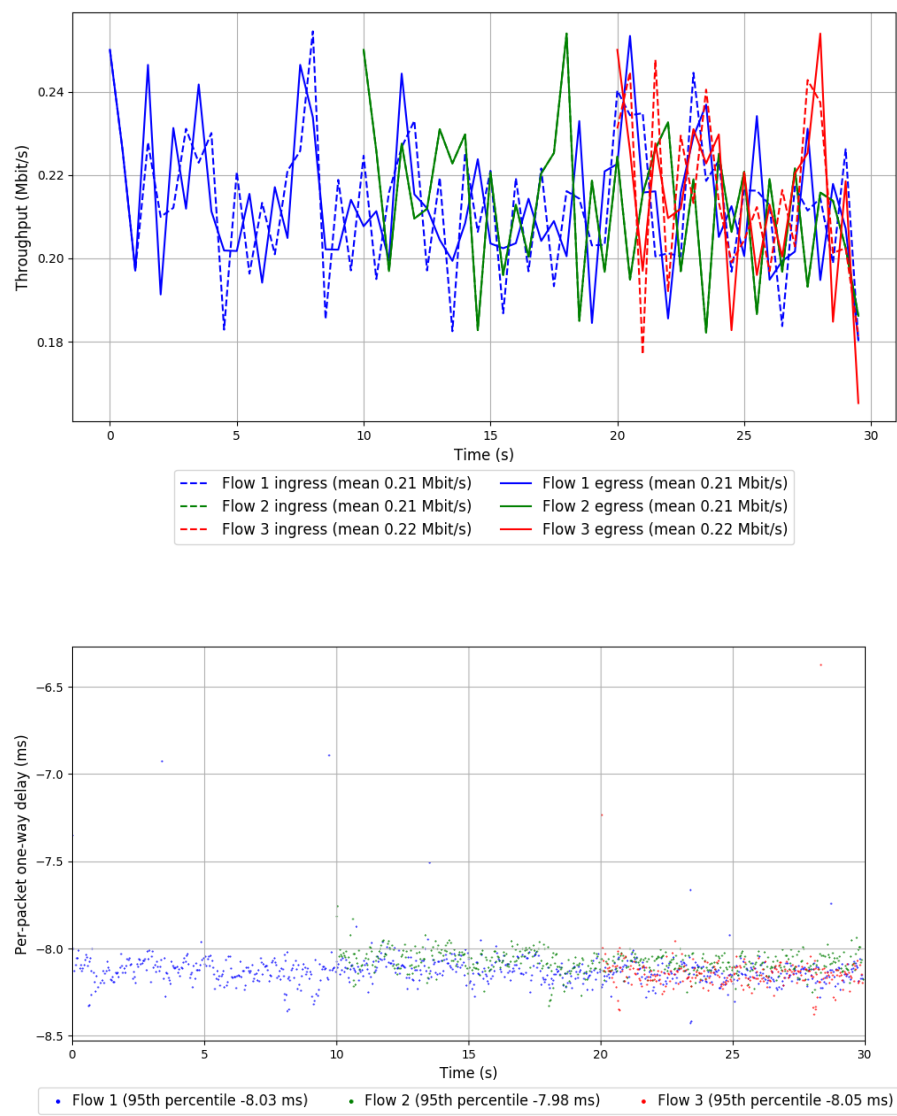


Run 5: Statistics of SReAM

Start at: 2017-11-30 21:52:47  
End at: 2017-11-30 21:53:17  
Local clock offset: 4.22 ms  
Remote clock offset: -17.64 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -8.005 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -8.032 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -7.984 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -8.047 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



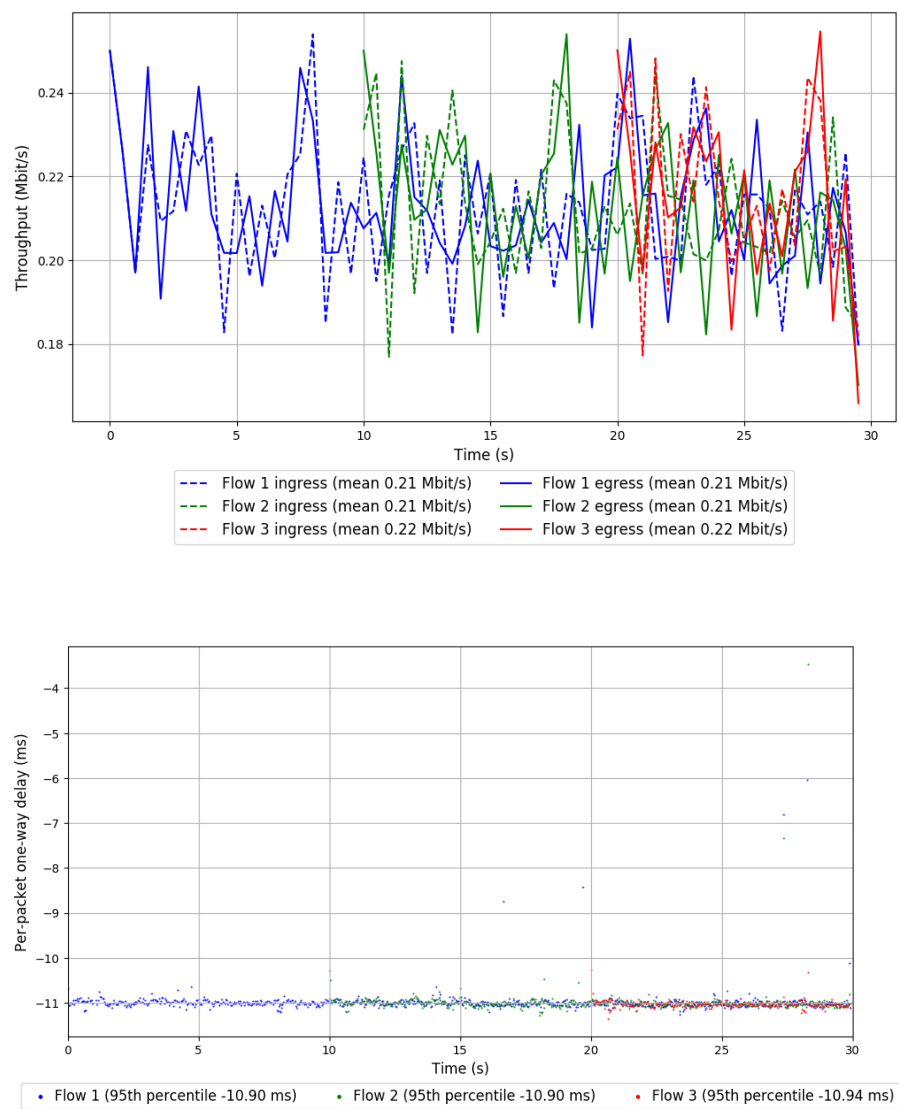
Run 6: Statistics of SReAM

Start at: 2017-11-30 22:09:47  
End at: 2017-11-30 22:10:17  
Local clock offset: 5.296 ms  
Remote clock offset: -19.399 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -10.905 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -10.905 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -10.903 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -10.936 ms  
Loss rate: 0.00%



Run 6: Report of SReAM — Data Link

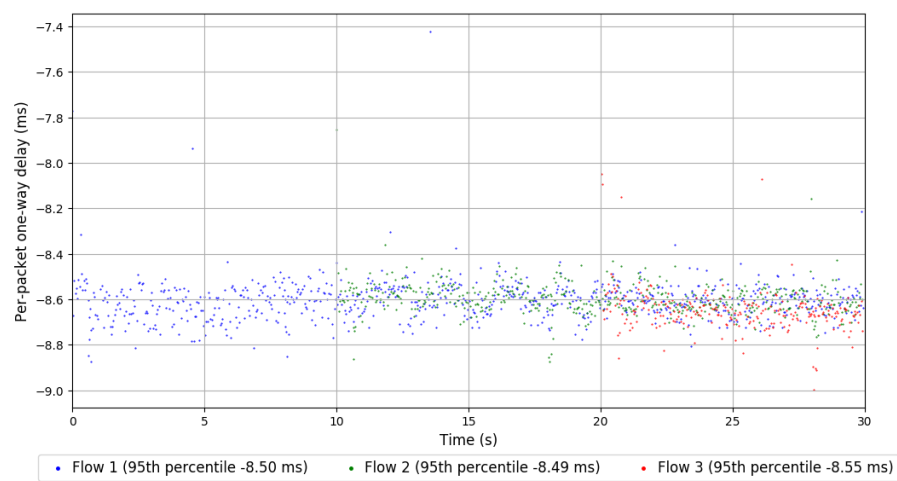
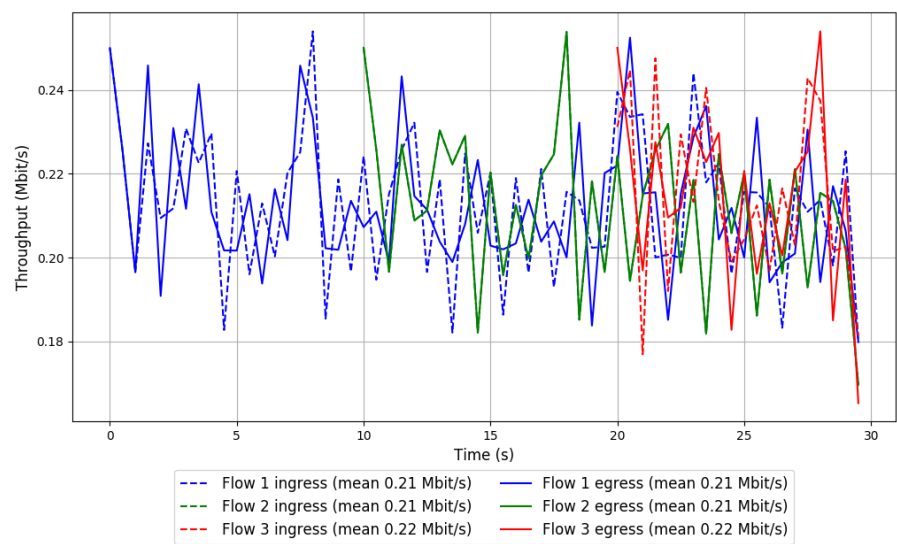


Run 7: Statistics of SReAM

Start at: 2017-11-30 22:27:29  
End at: 2017-11-30 22:27:59  
Local clock offset: 4.975 ms  
Remote clock offset: -17.81 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -8.499 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -8.502 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -8.486 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -8.551 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

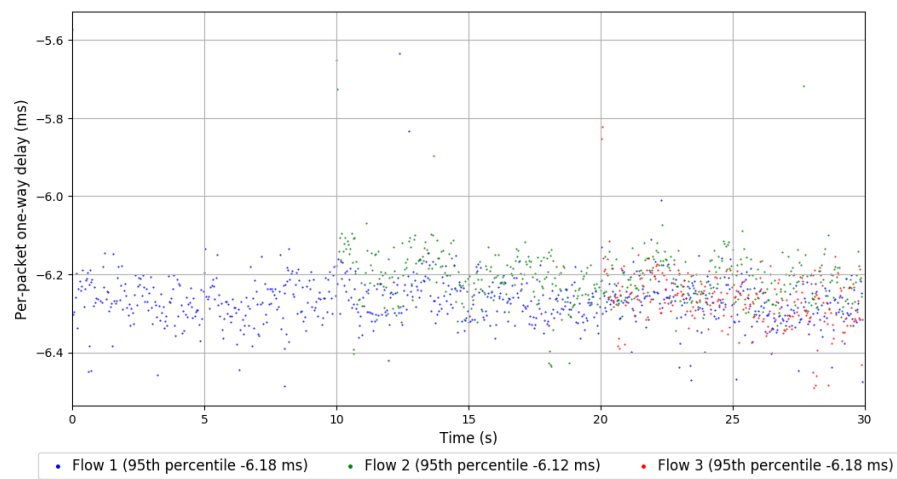
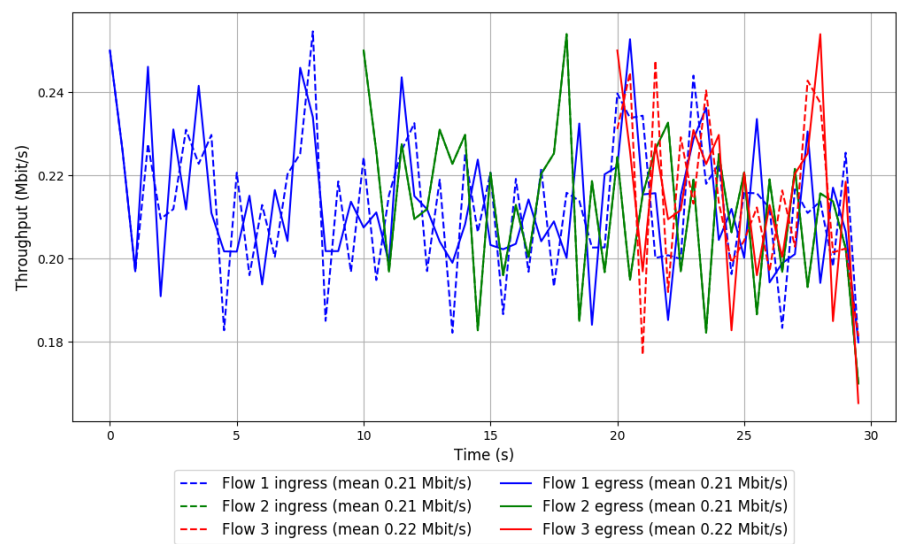


Run 8: Statistics of SReAM

Start at: 2017-11-30 22:44:30  
End at: 2017-11-30 22:45:00  
Local clock offset: 2.858 ms  
Remote clock offset: -16.966 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -6.144 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -6.181 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -6.117 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -6.178 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

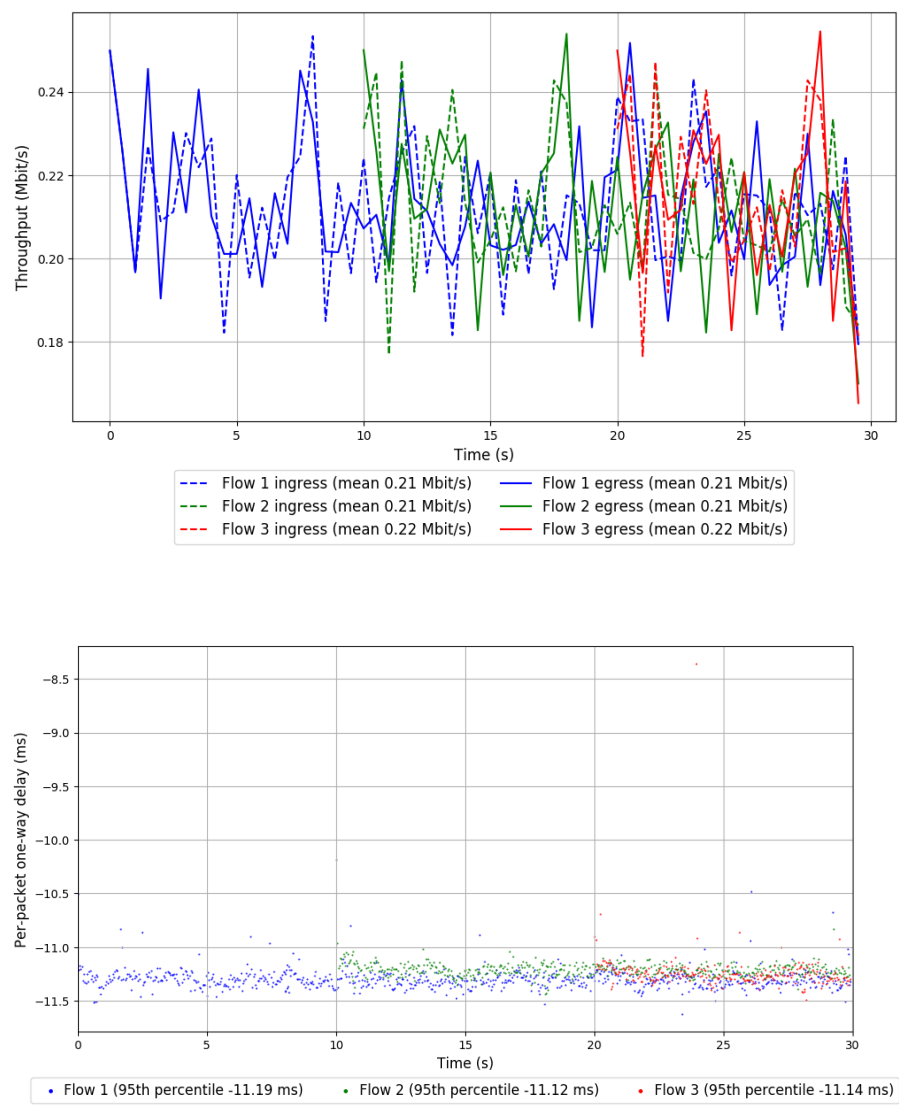


Run 9: Statistics of SReAM

Start at: 2017-11-30 23:01:26  
End at: 2017-11-30 23:01:56  
Local clock offset: 0.678 ms  
Remote clock offset: -23.232 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -11.137 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -11.192 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -11.121 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -11.140 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



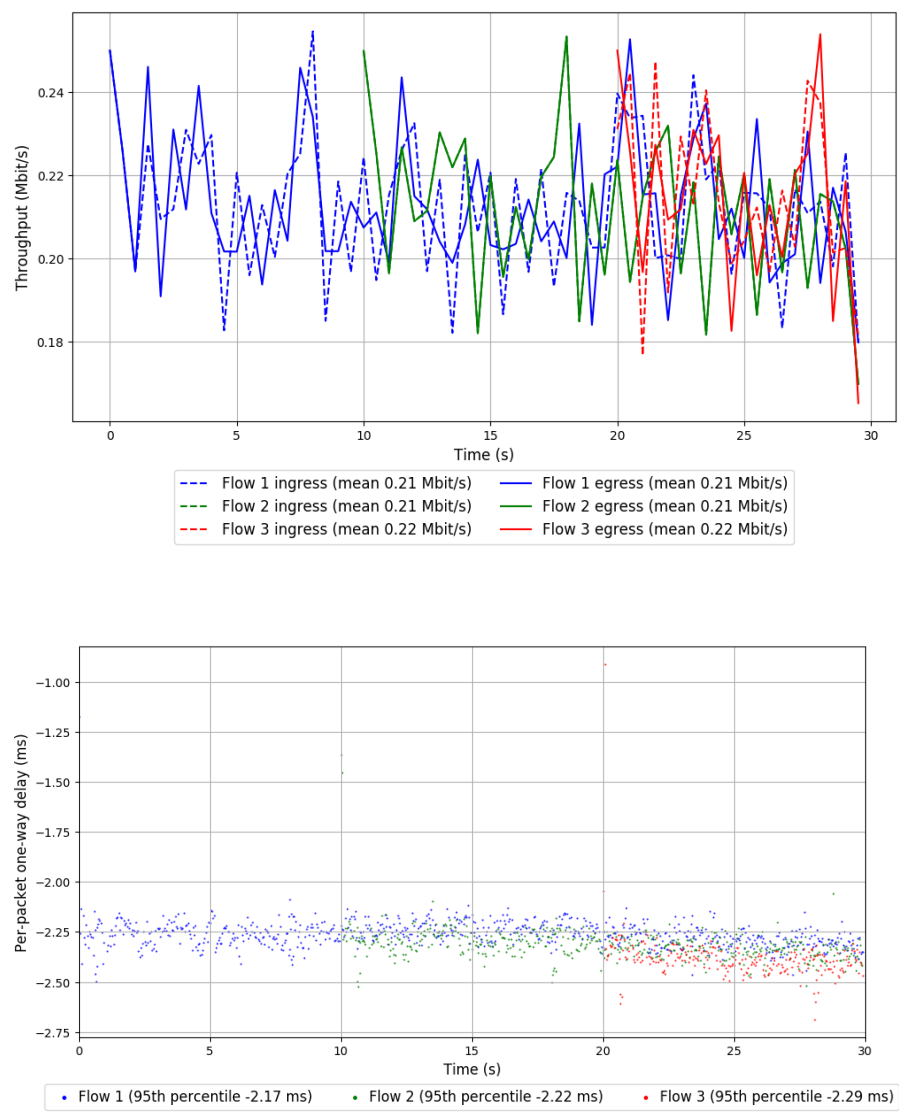
Run 10: Statistics of SReAM

Start at: 2017-11-30 23:18:23  
End at: 2017-11-30 23:18:53  
Local clock offset: -3.906 ms  
Remote clock offset: -18.257 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: -2.180 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -2.168 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: -2.223 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: -2.291 ms  
Loss rate: 0.00%



Run 10: Report of SCReAM — Data Link

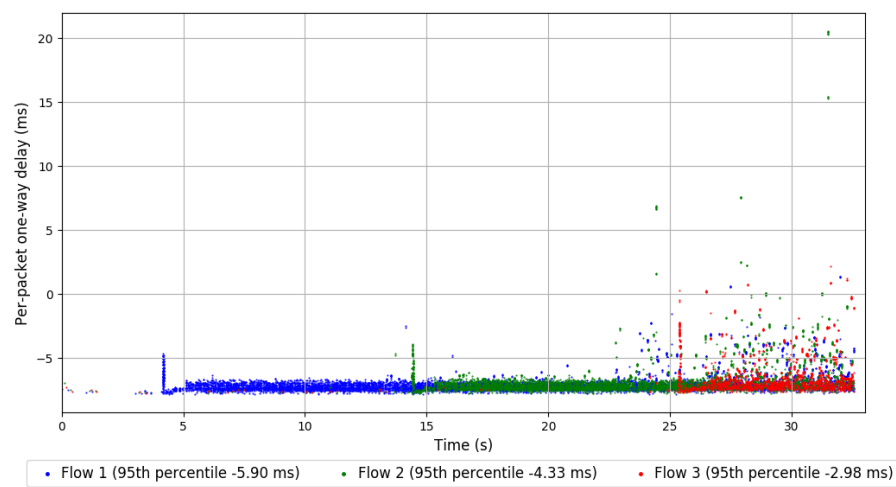
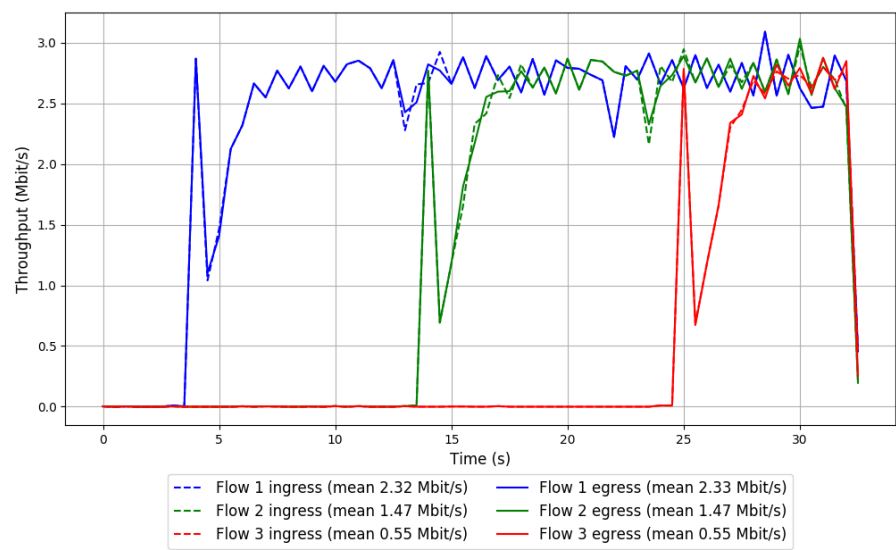


Run 1: Statistics of WebRTC media

Start at: 2017-11-30 20:53:04  
End at: 2017-11-30 20:53:34  
Local clock offset: 3.22 ms  
Remote clock offset: -16.406 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: -4.693 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: -5.900 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: -4.334 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: -2.980 ms  
Loss rate: 0.38%

Run 1: Report of WebRTC media — Data Link

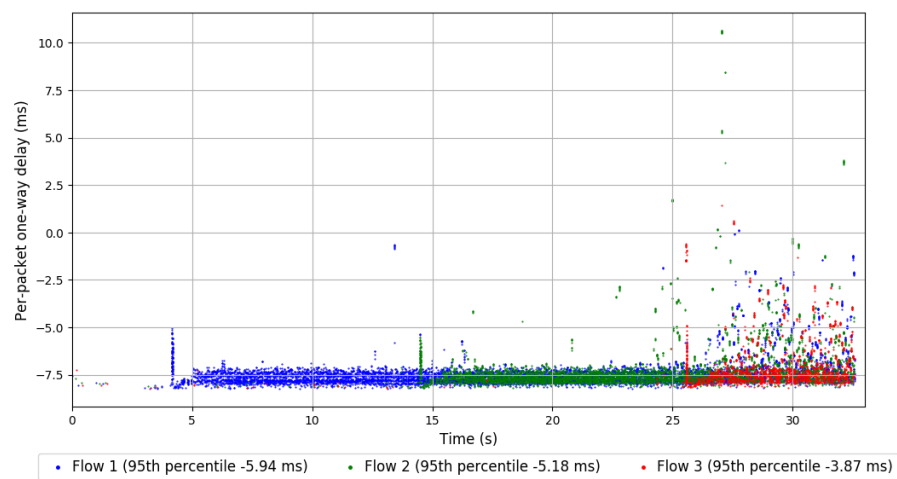
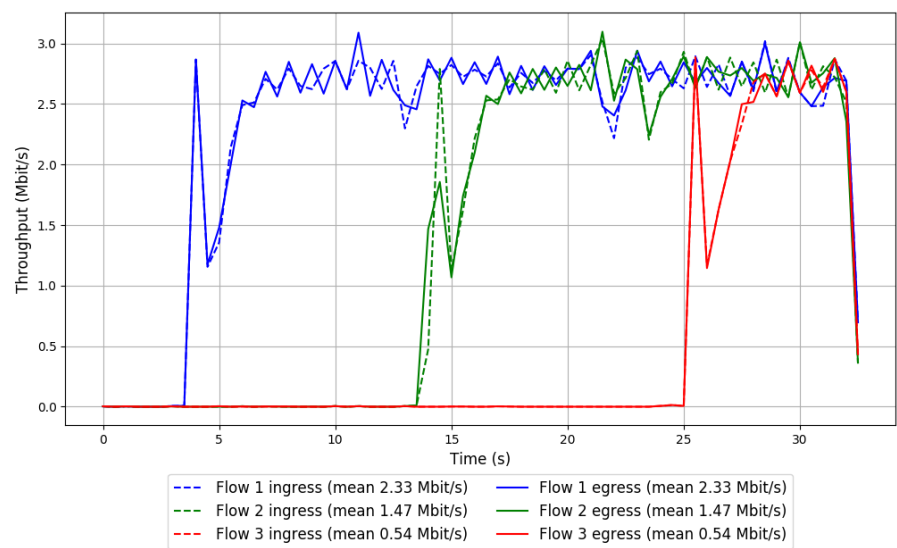


Run 2: Statistics of WebRTC media

Start at: 2017-11-30 21:09:49  
End at: 2017-11-30 21:10:19  
Local clock offset: 3.589 ms  
Remote clock offset: -17.062 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: -5.292 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: -5.944 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: -5.184 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: -3.866 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

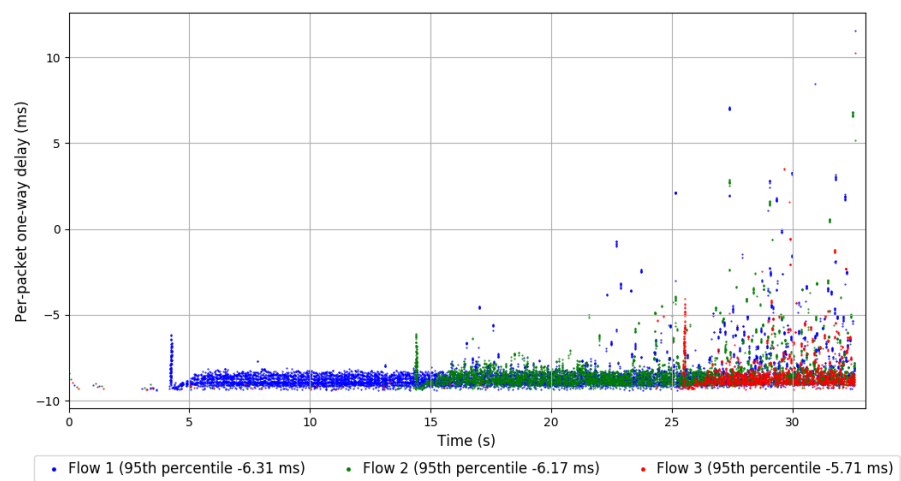
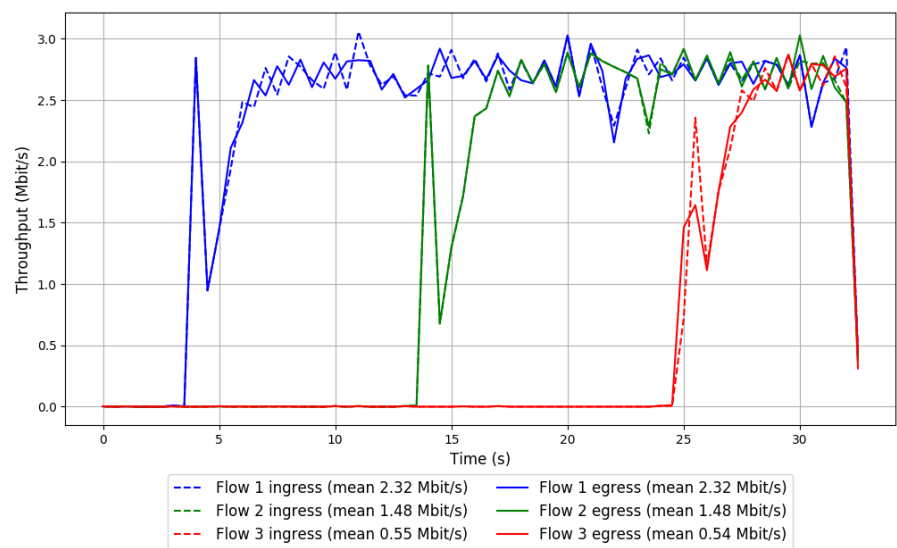


Run 3: Statistics of WebRTC media

Start at: 2017-11-30 21:26:21  
End at: 2017-11-30 21:26:51  
Local clock offset: 4.365 ms  
Remote clock offset: -17.71 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.33 Mbit/s  
95th percentile per-packet one-way delay: -6.088 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: -6.307 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: -6.170 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: -5.714 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



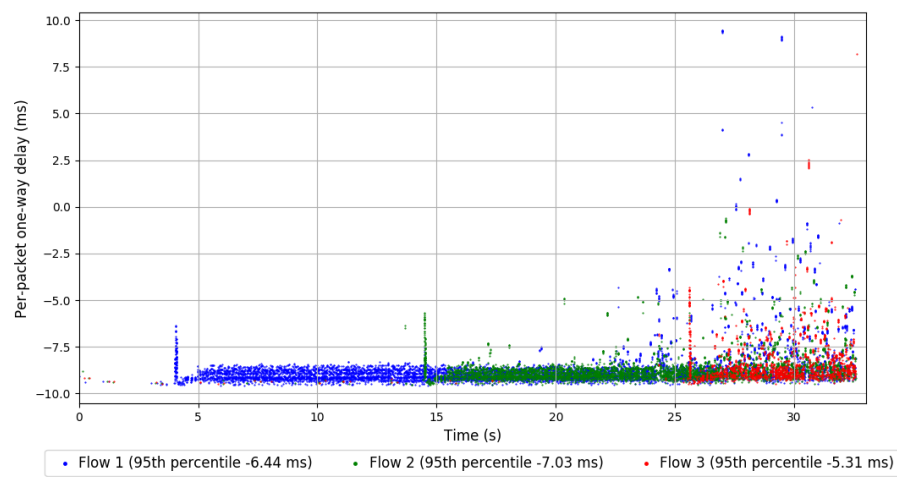
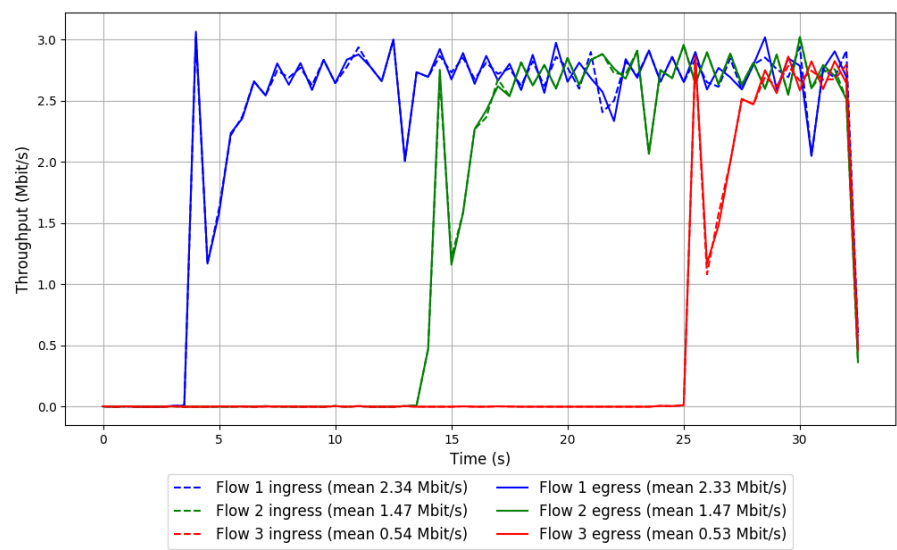
Run 4: Statistics of WebRTC media

Start at: 2017-11-30 21:43:08  
End at: 2017-11-30 21:43:38  
Local clock offset: 3.231 ms  
Remote clock offset: -19.397 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: -6.260 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: -6.437 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: -7.027 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: -5.307 ms  
Loss rate: 0.33%



Run 4: Report of WebRTC media — Data Link

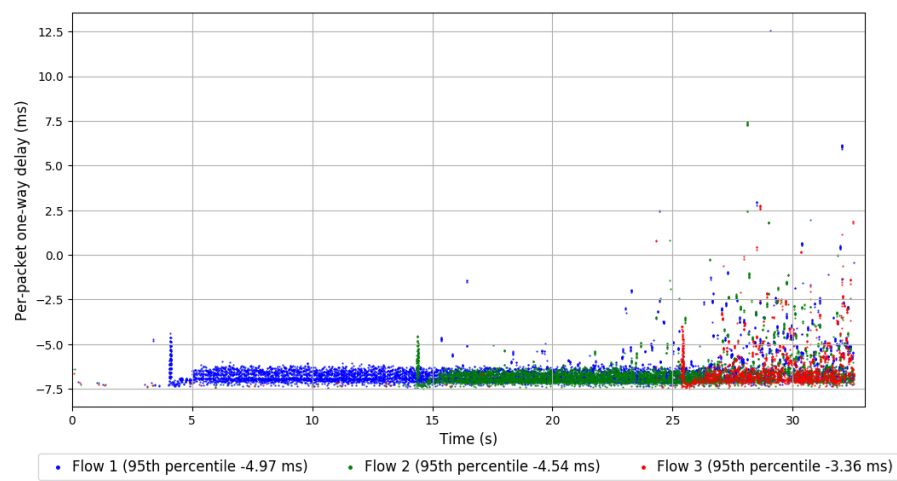
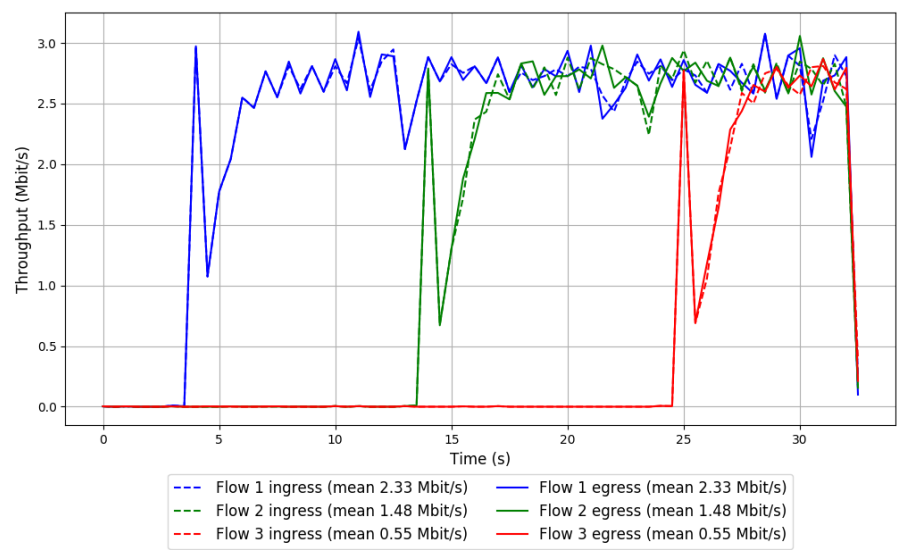


Run 5: Statistics of WebRTC media

Start at: 2017-11-30 21:59:58  
End at: 2017-11-30 22:00:28  
Local clock offset: 2.631 ms  
Remote clock offset: -18.009 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.35 Mbit/s  
95th percentile per-packet one-way delay: -4.604 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: -4.970 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: -4.538 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: -3.356 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

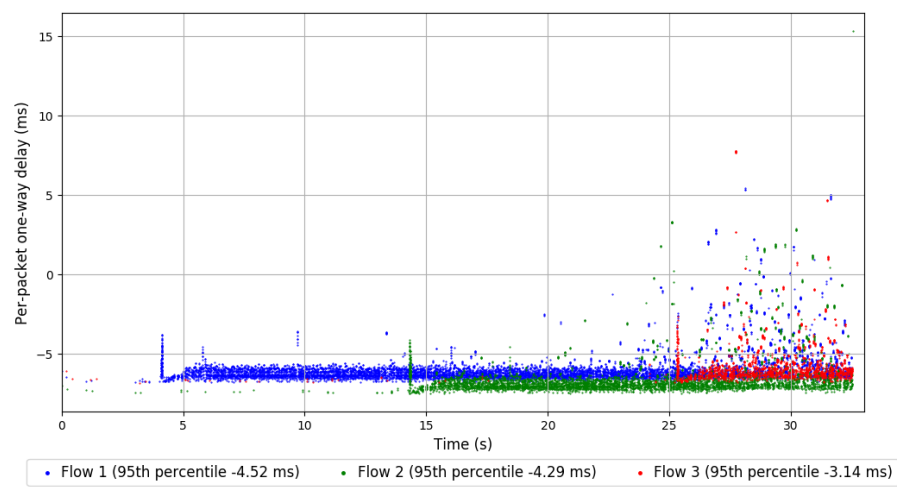
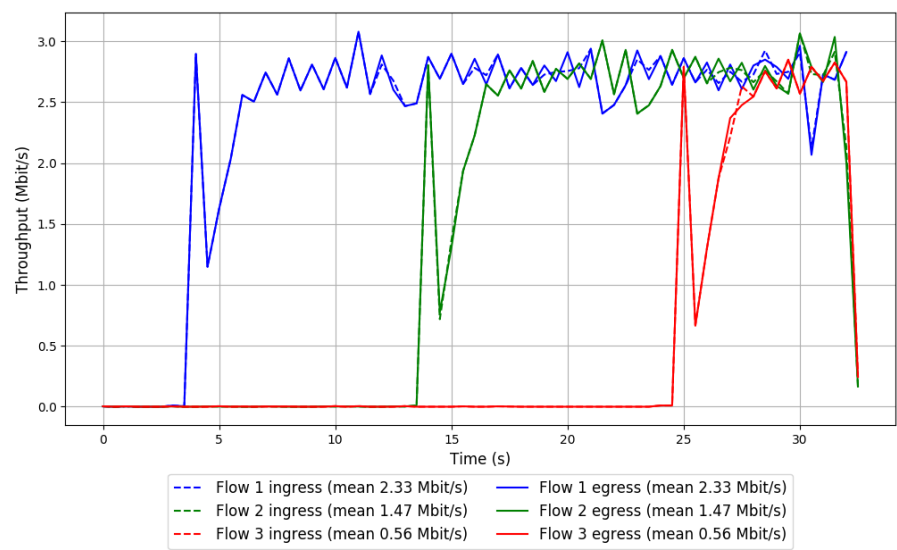


Run 6: Statistics of WebRTC media

Start at: 2017-11-30 22:17:32  
End at: 2017-11-30 22:18:02  
Local clock offset: 2.139 ms  
Remote clock offset: -19.189 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.36 Mbit/s  
95th percentile per-packet one-way delay: -4.120 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: -4.524 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: -4.290 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: -3.143 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

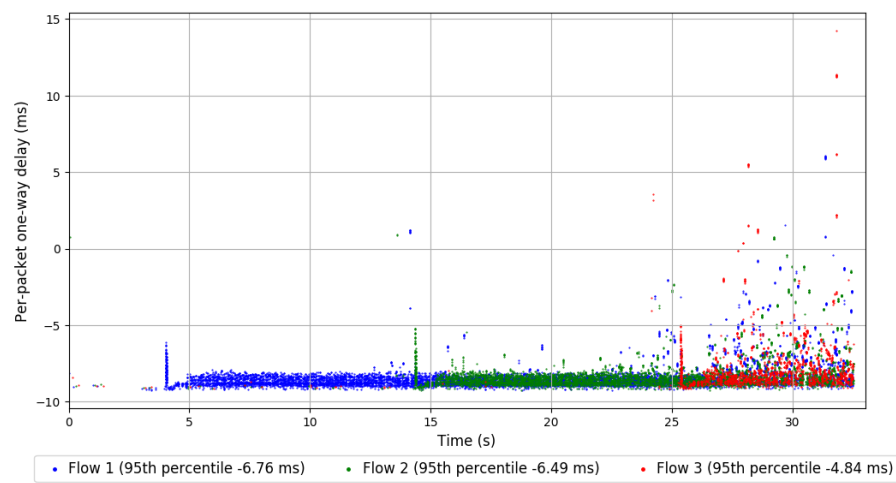
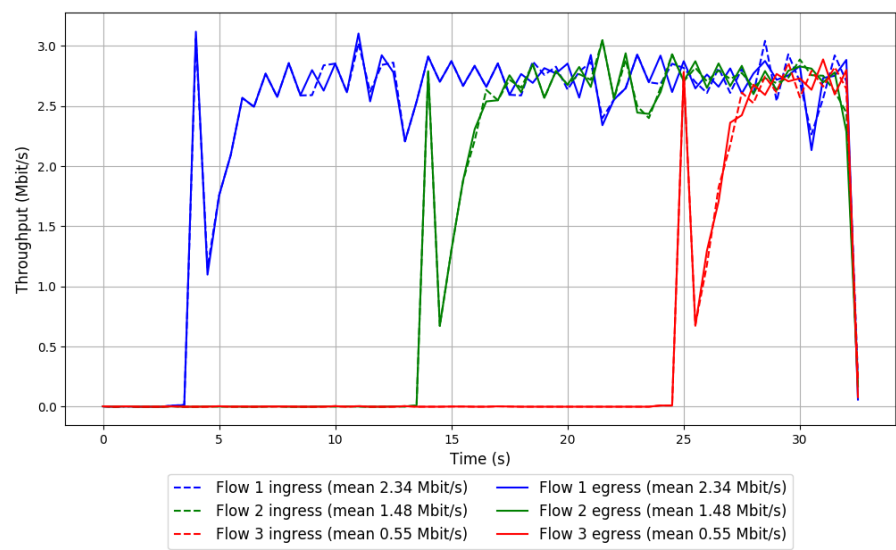


Run 7: Statistics of WebRTC media

Start at: 2017-11-30 22:34:50  
End at: 2017-11-30 22:35:20  
Local clock offset: 4.693 ms  
Remote clock offset: -18.125 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.36 Mbit/s  
95th percentile per-packet one-way delay: -6.306 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: -6.763 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: -6.493 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: -4.840 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



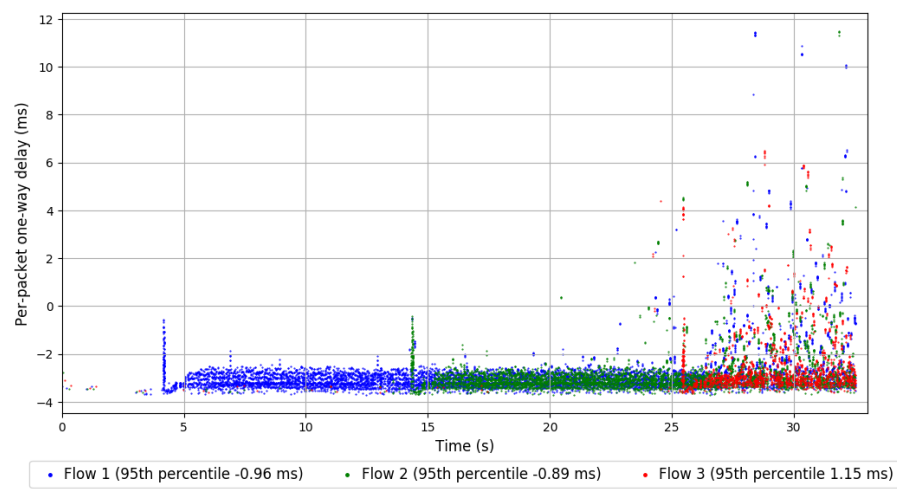
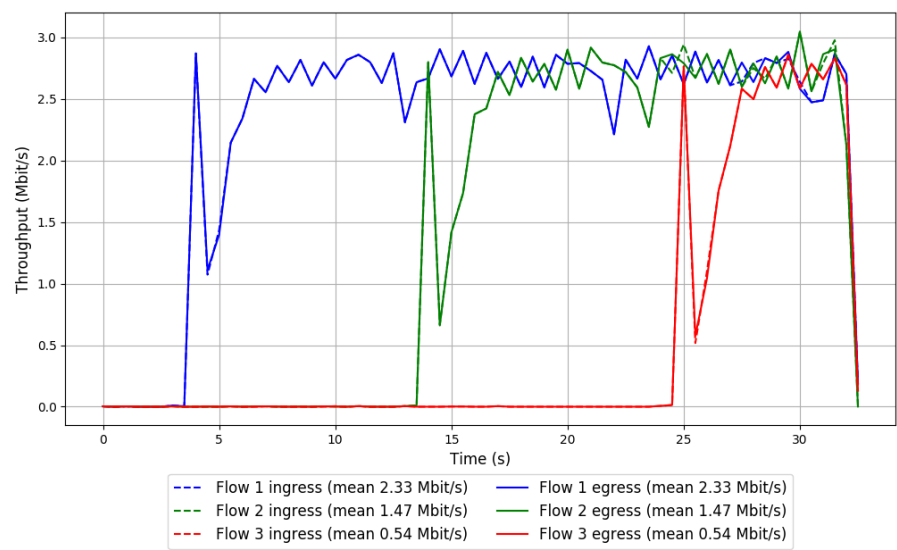
Run 8: Statistics of WebRTC media

Start at: 2017-11-30 22:51:46  
End at: 2017-11-30 22:52:16  
Local clock offset: -0.89 ms  
Remote clock offset: -17.476 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: -0.621 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: -0.960 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: -0.894 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 1.152 ms  
Loss rate: 0.00%



Run 8: Report of WebRTC media — Data Link

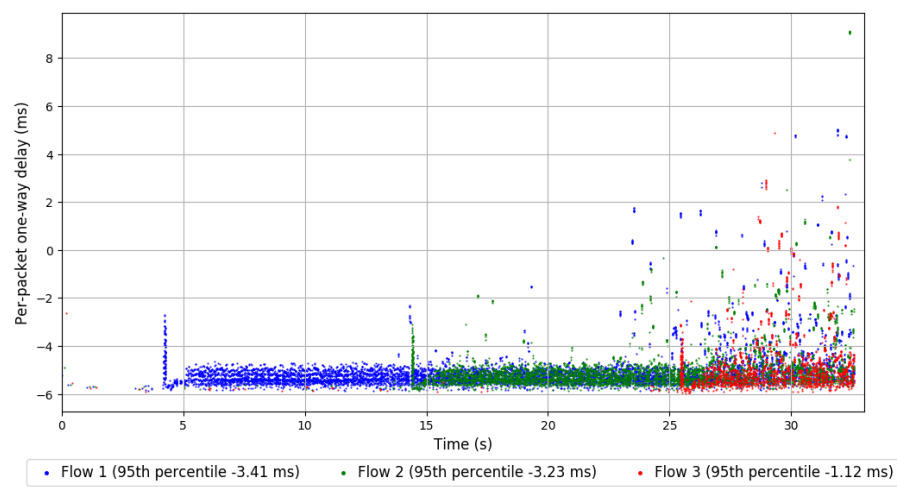
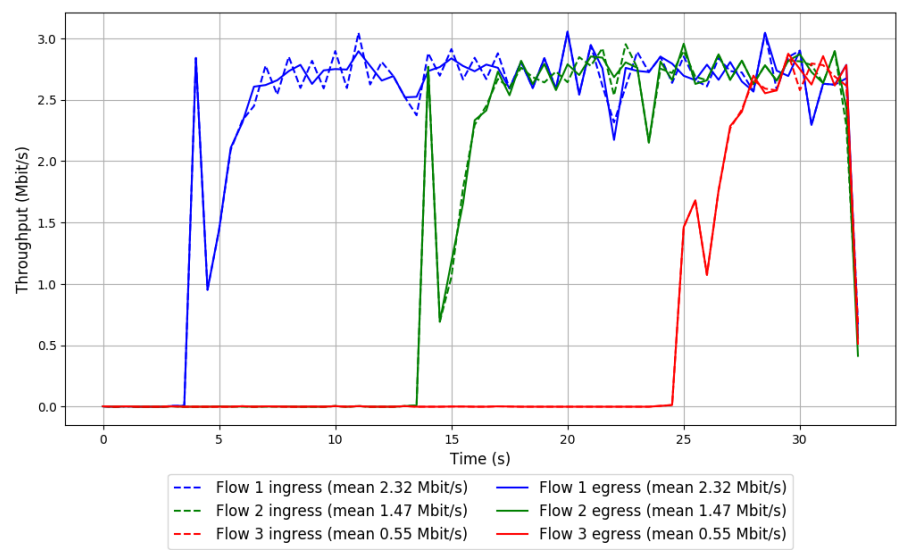


Run 9: Statistics of WebRTC media

Start at: 2017-11-30 23:08:36  
End at: 2017-11-30 23:09:06  
Local clock offset: 0.04 ms  
Remote clock offset: -18.077 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: -3.011 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: -3.406 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: -3.229 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: -1.125 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

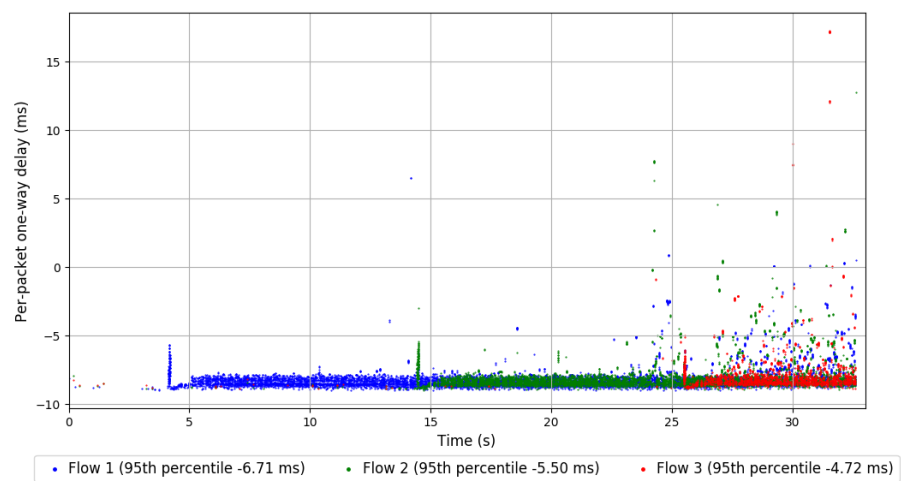
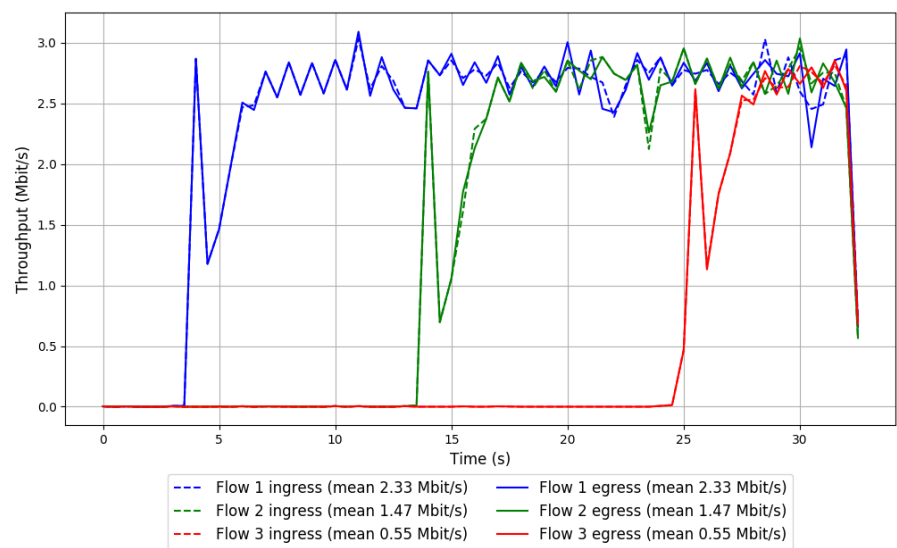


Run 10: Statistics of WebRTC media

Start at: 2017-11-30 23:25:45  
End at: 2017-11-30 23:26:15  
Local clock offset: -0.899 ms  
Remote clock offset: -21.263 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.33 Mbit/s  
95th percentile per-packet one-way delay: -6.098 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: -6.714 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: -5.497 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: -4.721 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

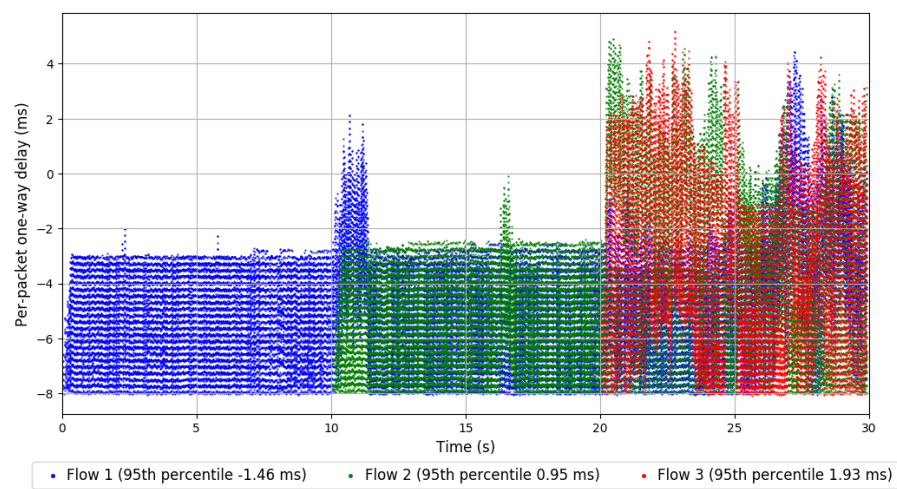
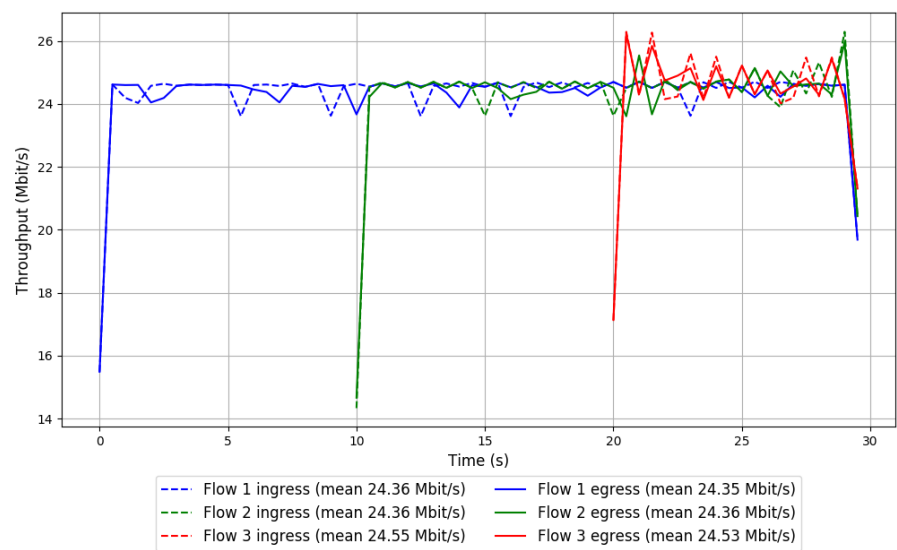


Run 1: Statistics of Sprout

Start at: 2017-11-30 20:56:37  
End at: 2017-11-30 20:57:07  
Local clock offset: 3.088 ms  
Remote clock offset: -17.024 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.65 Mbit/s  
95th percentile per-packet one-way delay: 0.497 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: -1.458 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 0.953 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.53 Mbit/s  
95th percentile per-packet one-way delay: 1.926 ms  
Loss rate: 0.01%

Run 1: Report of Sprout — Data Link



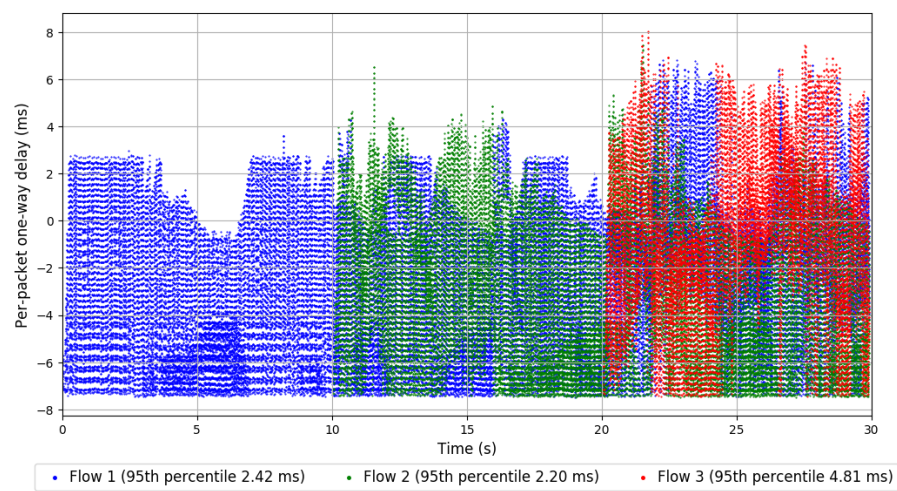
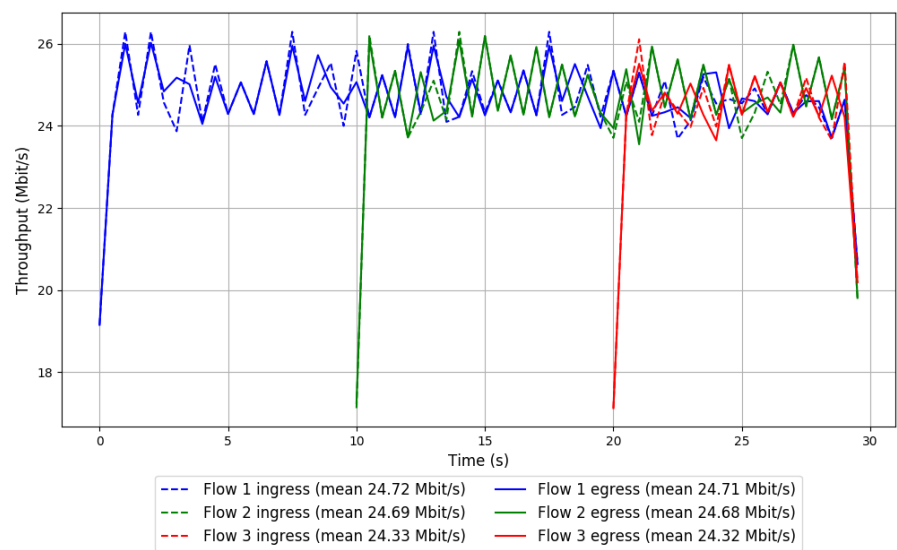
Run 2: Statistics of Sprout

Start at: 2017-11-30 21:13:20  
End at: 2017-11-30 21:13:50  
Local clock offset: 2.009 ms  
Remote clock offset: -18.184 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.16 Mbit/s  
95th percentile per-packet one-way delay: 3.030 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.71 Mbit/s  
95th percentile per-packet one-way delay: 2.420 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.68 Mbit/s  
95th percentile per-packet one-way delay: 2.197 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.32 Mbit/s  
95th percentile per-packet one-way delay: 4.812 ms  
Loss rate: 0.00%



Run 2: Report of Sprout — Data Link

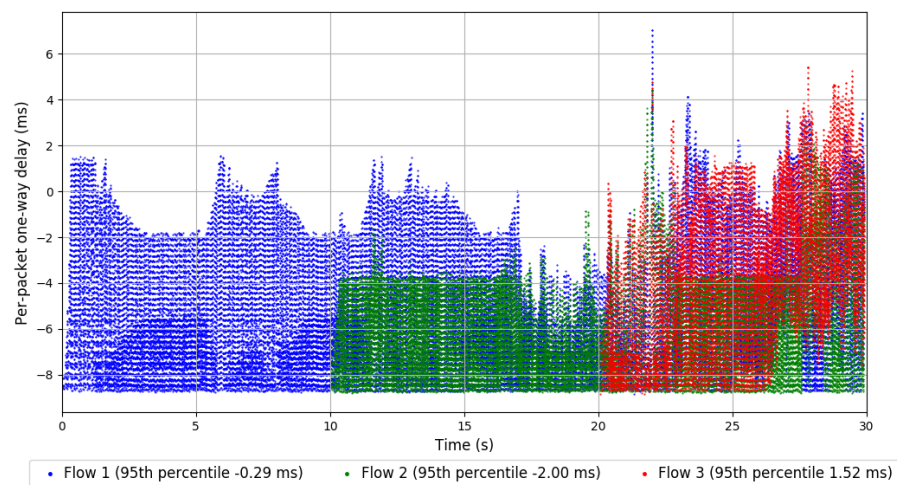
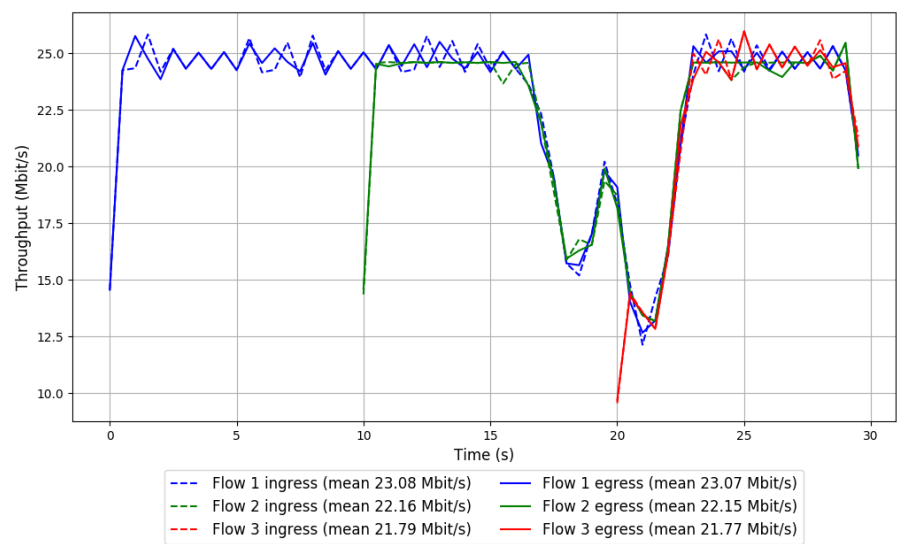


### Run 3: Statistics of Sprout

Start at: 2017-11-30 21:29:54  
End at: 2017-11-30 21:30:25  
Local clock offset: 4.325 ms  
Remote clock offset: -17.564 ms

```
# Below is generated by plot.py at 2017-12-01 00:06:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.99 Mbit/s
95th percentile per-packet one-way delay: -0.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: -0.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.15 Mbit/s
95th percentile per-packet one-way delay: -1.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.77 Mbit/s
95th percentile per-packet one-way delay: 1.520 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

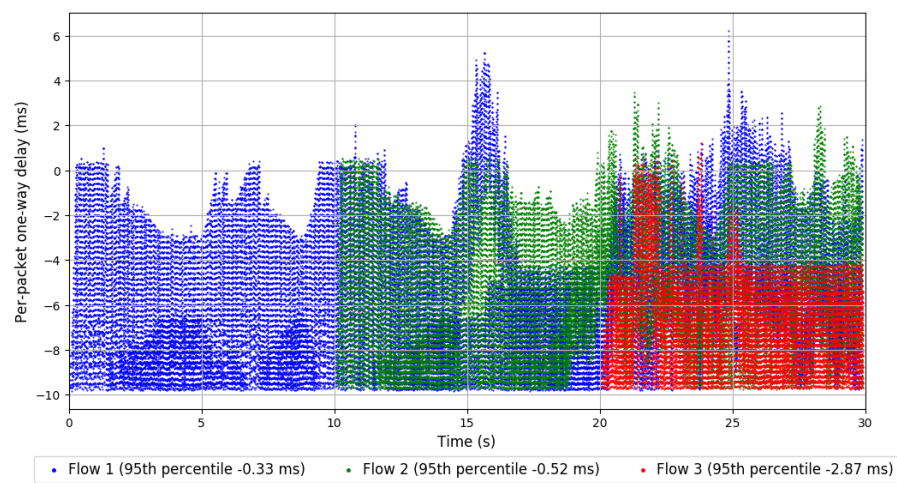
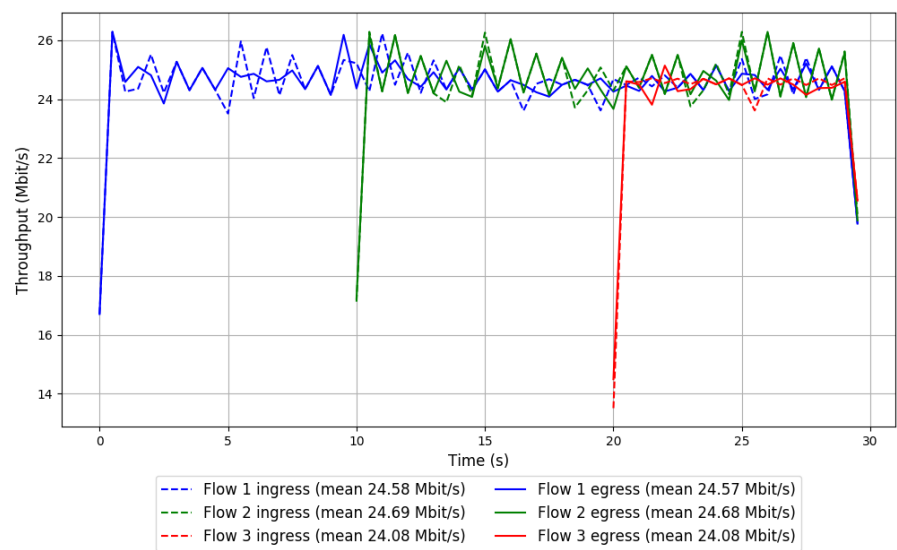


Run 4: Statistics of Sprout

Start at: 2017-11-30 21:46:47  
End at: 2017-11-30 21:47:17  
Local clock offset: 4.183 ms  
Remote clock offset: -18.986 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.94 Mbit/s  
95th percentile per-packet one-way delay: -0.589 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 24.57 Mbit/s  
95th percentile per-packet one-way delay: -0.328 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.68 Mbit/s  
95th percentile per-packet one-way delay: -0.521 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 24.08 Mbit/s  
95th percentile per-packet one-way delay: -2.871 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

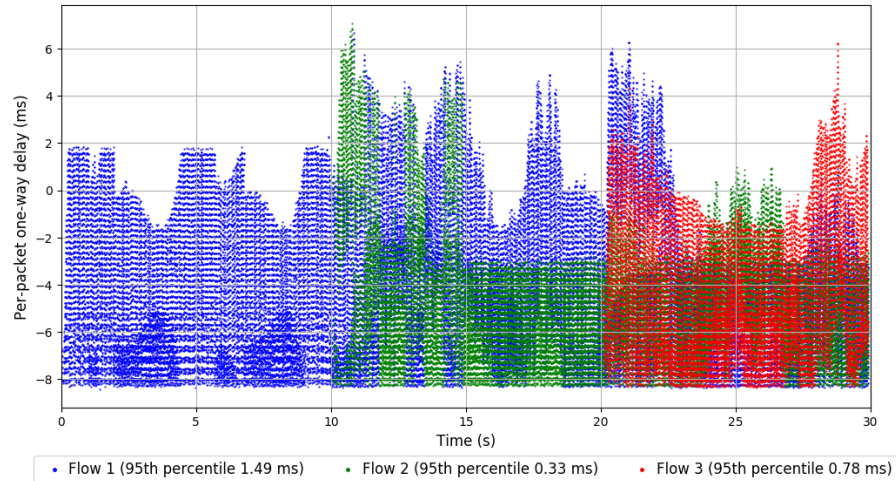
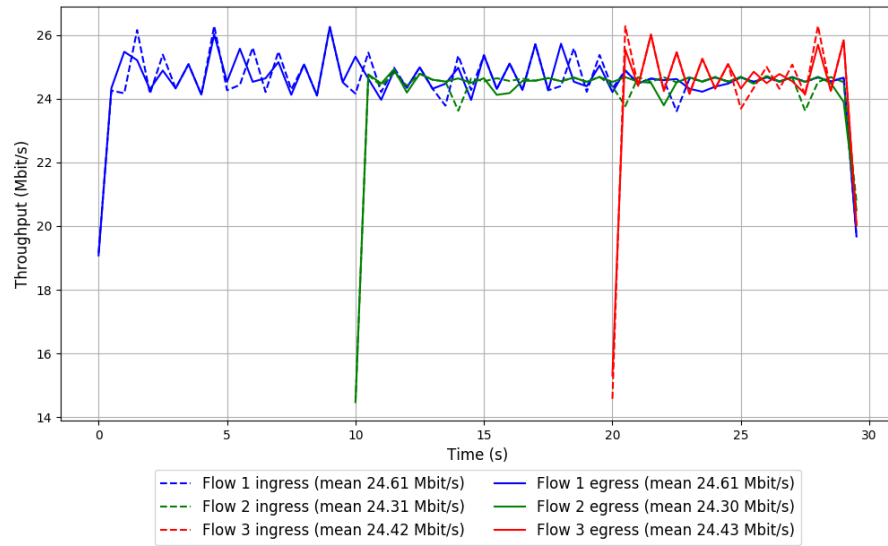


Run 5: Statistics of Sprout

Start at: 2017-11-30 22:03:36  
End at: 2017-11-30 22:04:06  
Local clock offset: 4.108 ms  
Remote clock offset: -17.61 ms

```
# Below is generated by plot.py at 2017-12-01 00:06:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.84 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 1.489 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 0.331 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 0.778 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link



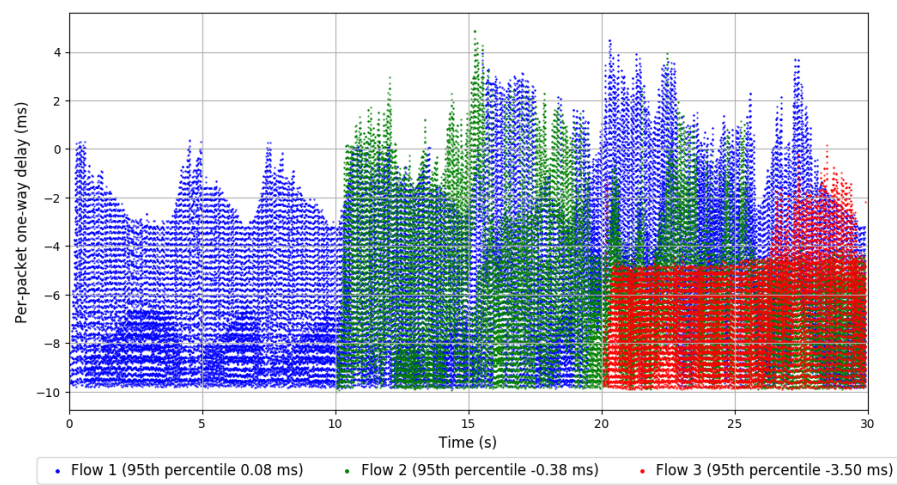
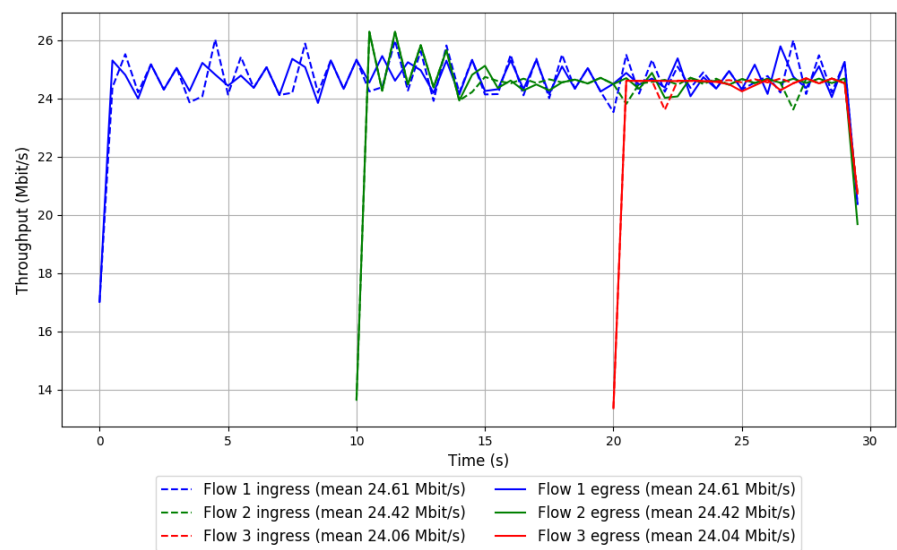
Run 6: Statistics of Sprout

Start at: 2017-11-30 22:21:21  
End at: 2017-11-30 22:21:51  
Local clock offset: 6.006 ms  
Remote clock offset: -17.779 ms

# Below is generated by plot.py at 2017-12-01 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.78 Mbit/s  
95th percentile per-packet one-way delay: -0.393 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.61 Mbit/s  
95th percentile per-packet one-way delay: 0.079 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.42 Mbit/s  
95th percentile per-packet one-way delay: -0.384 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.04 Mbit/s  
95th percentile per-packet one-way delay: -3.498 ms  
Loss rate: 0.00%



Run 6: Report of Sprout — Data Link

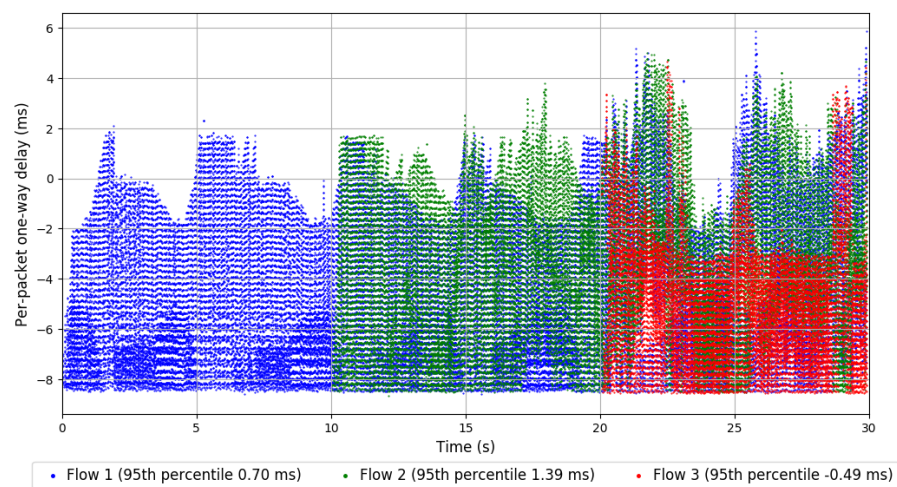
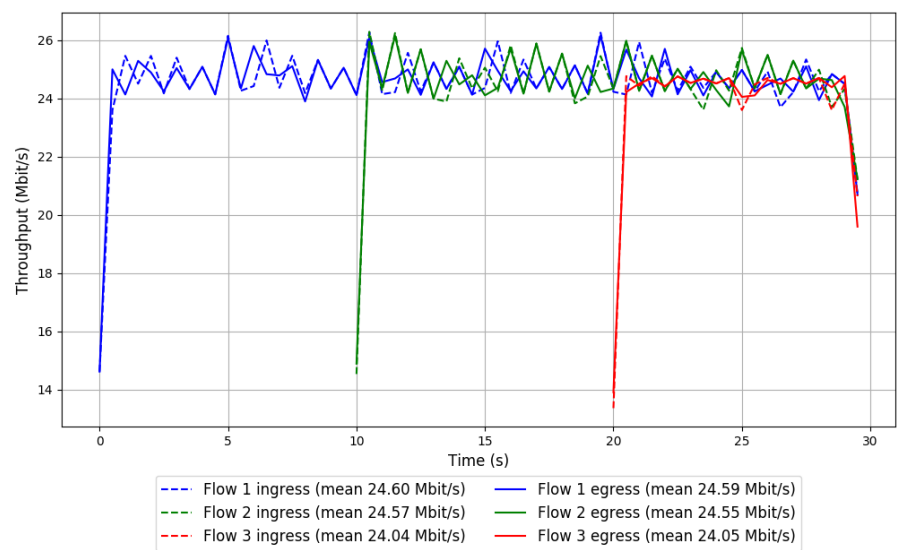


Run 7: Statistics of Sprout

Start at: 2017-11-30 22:38:23  
End at: 2017-11-30 22:38:53  
Local clock offset: 4.237 ms  
Remote clock offset: -17.879 ms

# Below is generated by plot.py at 2017-12-01 00:07:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.86 Mbit/s  
95th percentile per-packet one-way delay: 0.914 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 0.697 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.55 Mbit/s  
95th percentile per-packet one-way delay: 1.391 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.05 Mbit/s  
95th percentile per-packet one-way delay: -0.488 ms  
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

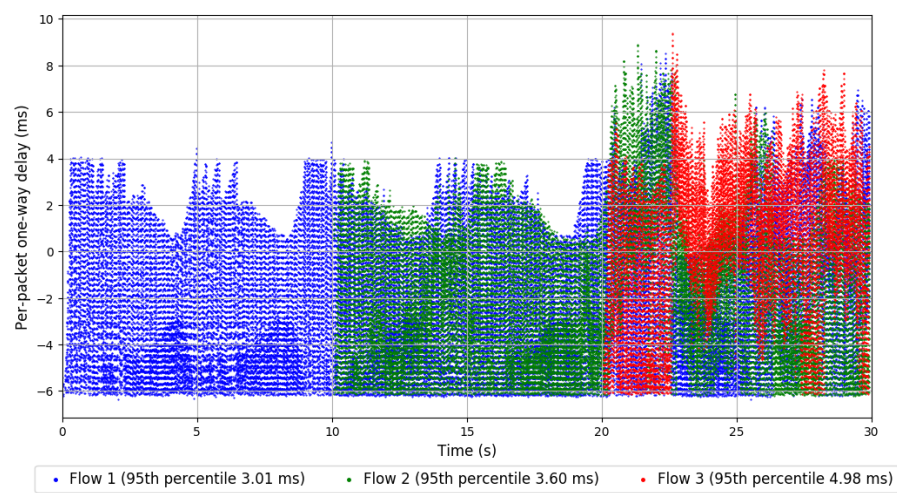
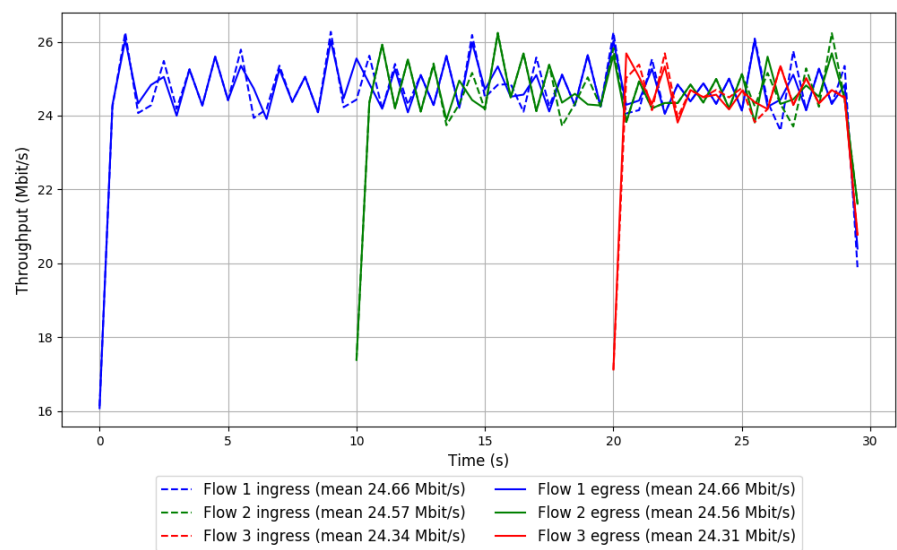


Run 8: Statistics of Sprout

Start at: 2017-11-30 22:55:23  
End at: 2017-11-30 22:55:53  
Local clock offset: 0.113 ms  
Remote clock offset: -18.888 ms

# Below is generated by plot.py at 2017-12-01 00:07:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.02 Mbit/s  
95th percentile per-packet one-way delay: 3.743 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.66 Mbit/s  
95th percentile per-packet one-way delay: 3.006 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.56 Mbit/s  
95th percentile per-packet one-way delay: 3.600 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.31 Mbit/s  
95th percentile per-packet one-way delay: 4.983 ms  
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

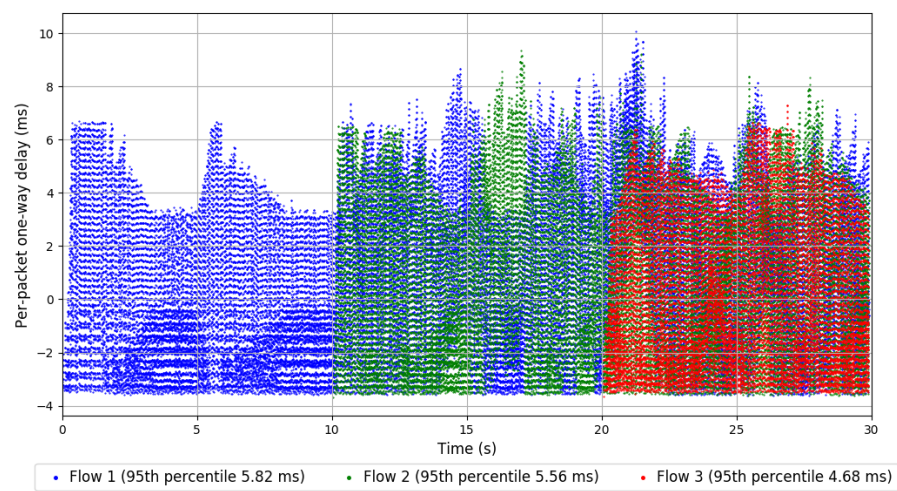
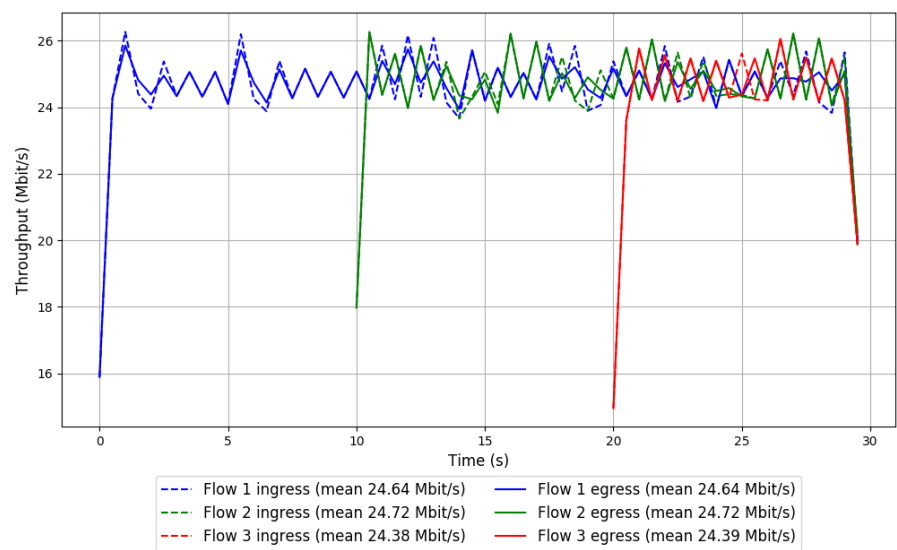


Run 9: Statistics of Sprout

Start at: 2017-11-30 23:12:13  
End at: 2017-11-30 23:12:43  
Local clock offset: -3.68 ms  
Remote clock offset: -19.427 ms

# Below is generated by plot.py at 2017-12-01 00:07:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.13 Mbit/s  
95th percentile per-packet one-way delay: 5.585 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.64 Mbit/s  
95th percentile per-packet one-way delay: 5.819 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.72 Mbit/s  
95th percentile per-packet one-way delay: 5.562 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.39 Mbit/s  
95th percentile per-packet one-way delay: 4.678 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



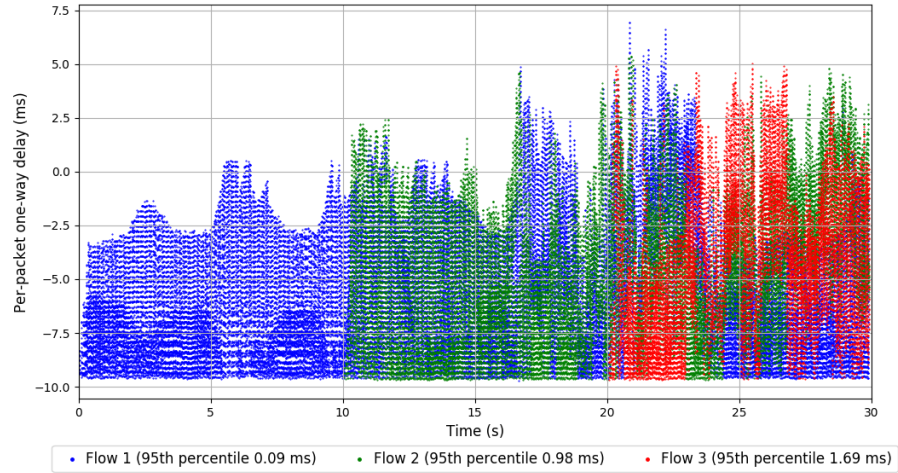
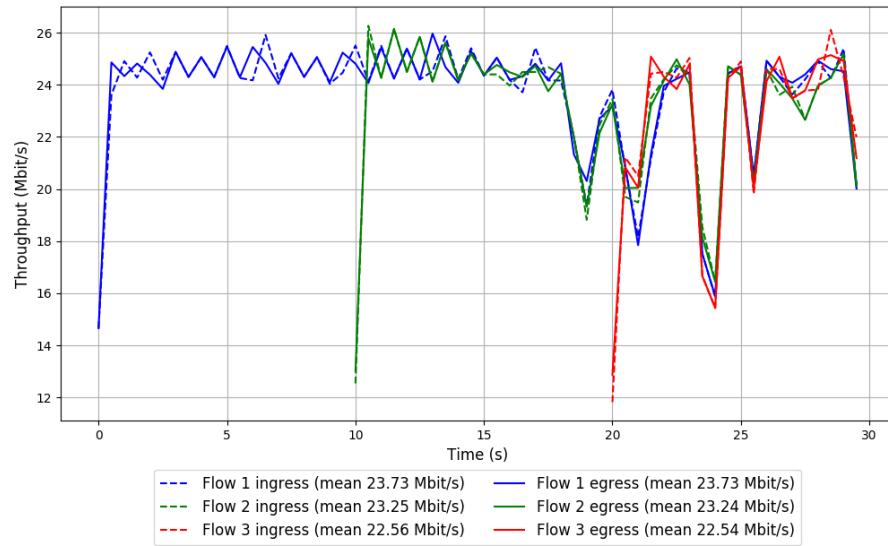
Run 10: Statistics of Sprout

Start at: 2017-11-30 23:29:20  
End at: 2017-11-30 23:29:50  
Local clock offset: 0.973 ms  
Remote clock offset: -20.224 ms

# Below is generated by plot.py at 2017-12-01 00:07:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.63 Mbit/s  
95th percentile per-packet one-way delay: 0.760 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.73 Mbit/s  
95th percentile per-packet one-way delay: 0.093 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 23.24 Mbit/s  
95th percentile per-packet one-way delay: 0.980 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 22.54 Mbit/s  
95th percentile per-packet one-way delay: 1.692 ms  
Loss rate: 0.00%



## Run 10: Report of Sprout — Data Link

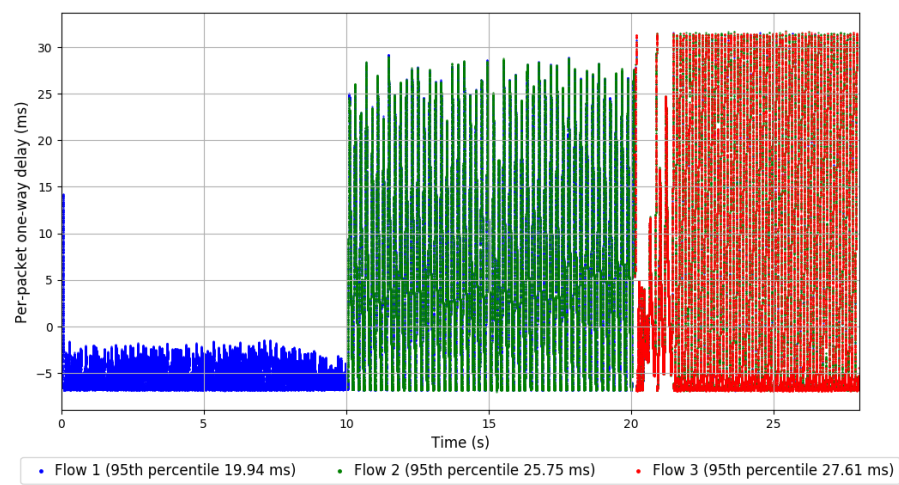
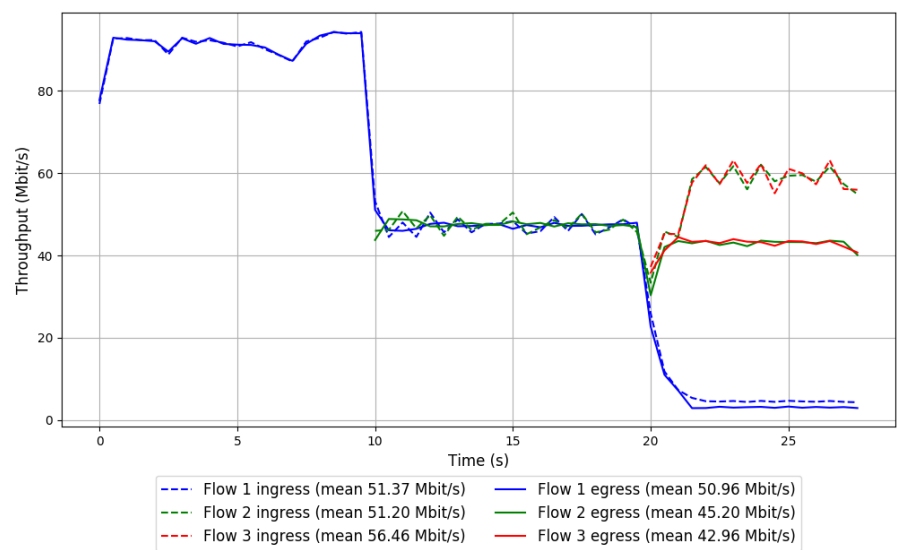


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 20:58:56
End at: 2017-11-30 20:59:26
Local clock offset: 1.457 ms
Remote clock offset: -17.478 ms

# Below is generated by plot.py at 2017-12-01 00:08:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 24.089 ms
Loss rate: 8.10%
-- Flow 1:
Average throughput: 50.96 Mbit/s
95th percentile per-packet one-way delay: 19.940 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 25.750 ms
Loss rate: 11.71%
-- Flow 3:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 27.608 ms
Loss rate: 24.09%
```

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

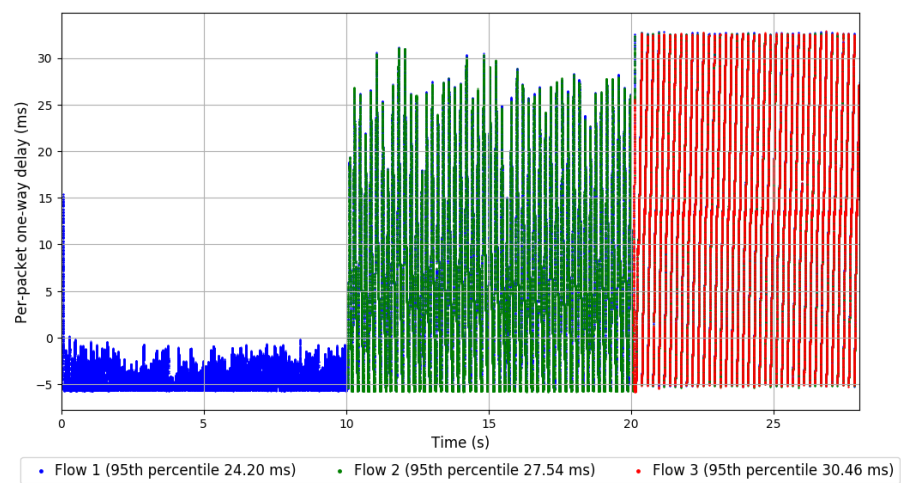
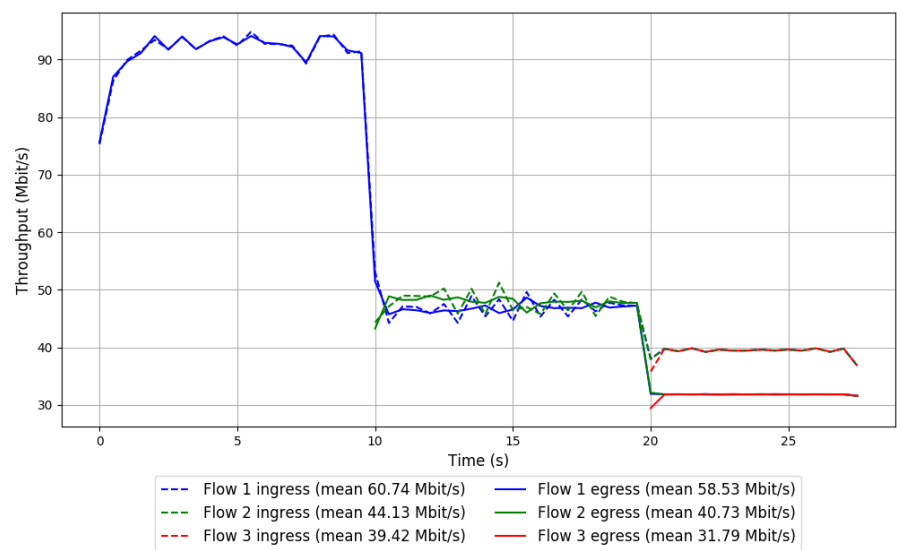


Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 21:15:37  
End at: 2017-11-30 21:16:07  
Local clock offset: 2.089 ms  
Remote clock offset: -16.452 ms

# Below is generated by plot.py at 2017-12-01 00:08:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.75 Mbit/s  
95th percentile per-packet one-way delay: 26.606 ms  
Loss rate: 6.39%  
-- Flow 1:  
Average throughput: 58.53 Mbit/s  
95th percentile per-packet one-way delay: 24.201 ms  
Loss rate: 3.52%  
-- Flow 2:  
Average throughput: 40.73 Mbit/s  
95th percentile per-packet one-way delay: 27.544 ms  
Loss rate: 7.53%  
-- Flow 3:  
Average throughput: 31.79 Mbit/s  
95th percentile per-packet one-way delay: 30.460 ms  
Loss rate: 19.09%

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

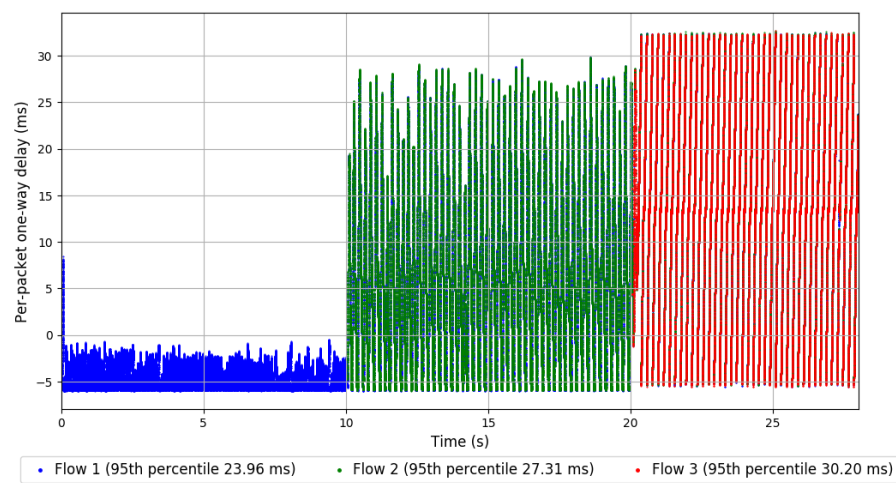
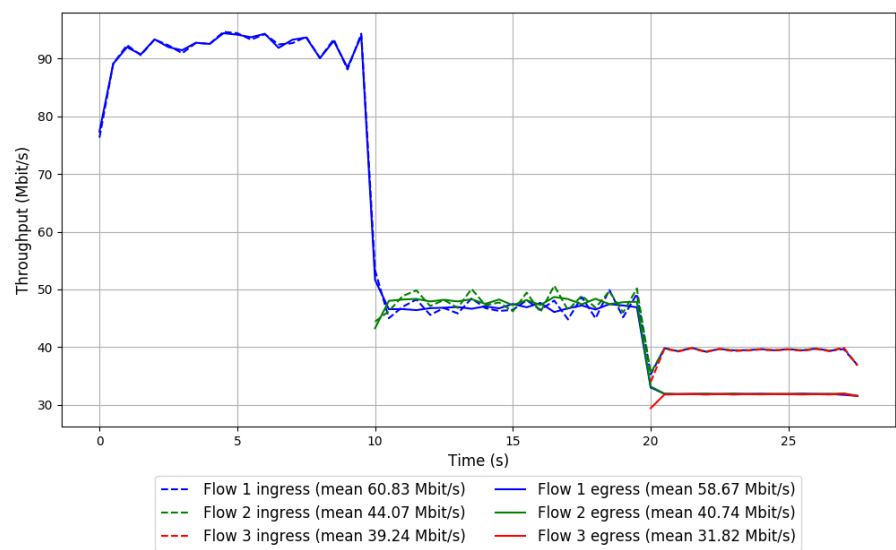


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 21:32:13  
End at: 2017-11-30 21:32:43  
Local clock offset: 2.331 ms  
Remote clock offset: -16.944 ms

# Below is generated by plot.py at 2017-12-01 00:09:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.88 Mbit/s  
95th percentile per-packet one-way delay: 26.451 ms  
Loss rate: 6.28%  
-- Flow 1:  
Average throughput: 58.67 Mbit/s  
95th percentile per-packet one-way delay: 23.965 ms  
Loss rate: 3.45%  
-- Flow 2:  
Average throughput: 40.74 Mbit/s  
95th percentile per-packet one-way delay: 27.308 ms  
Loss rate: 7.42%  
-- Flow 3:  
Average throughput: 31.82 Mbit/s  
95th percentile per-packet one-way delay: 30.199 ms  
Loss rate: 18.84%

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



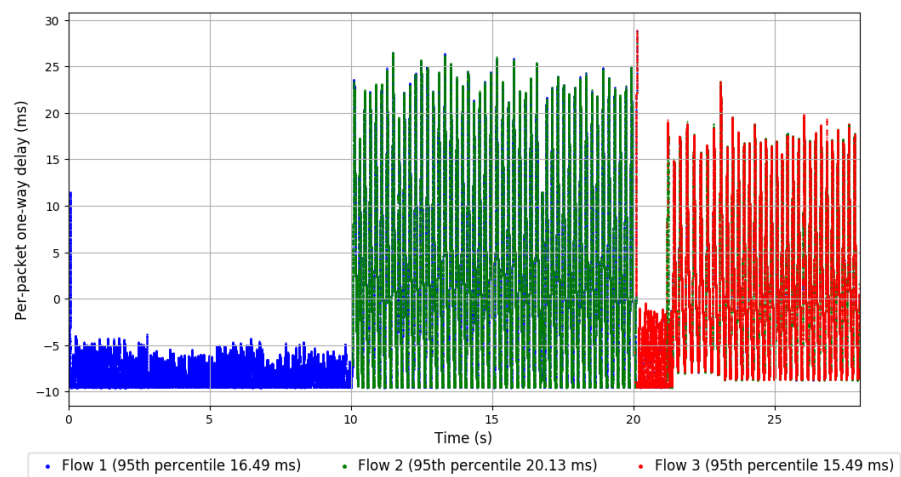
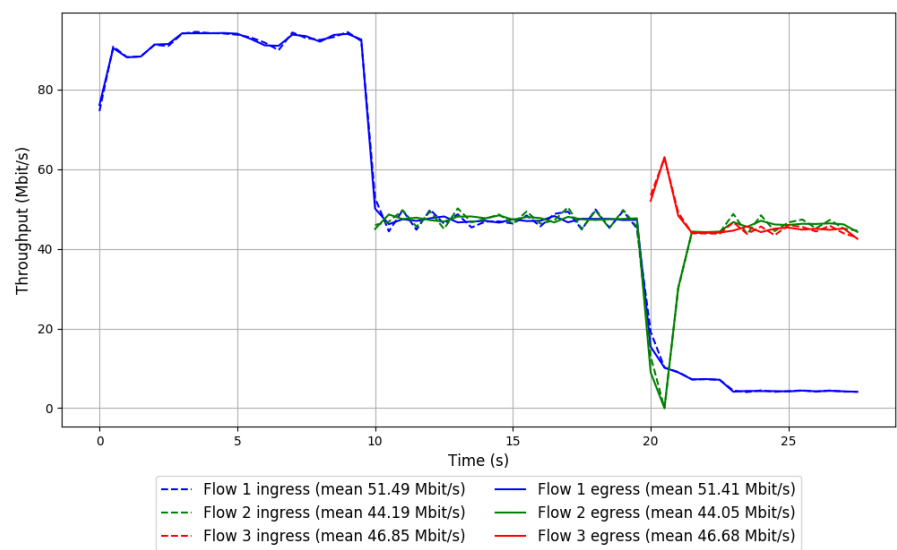
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 21:49:03  
End at: 2017-11-30 21:49:33  
Local clock offset: 5.164 ms  
Remote clock offset: -17.921 ms

# Below is generated by plot.py at 2017-12-01 00:09:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.96 Mbit/s  
95th percentile per-packet one-way delay: 17.729 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 51.41 Mbit/s  
95th percentile per-packet one-way delay: 16.487 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 44.05 Mbit/s  
95th percentile per-packet one-way delay: 20.129 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 46.68 Mbit/s  
95th percentile per-packet one-way delay: 15.490 ms  
Loss rate: 0.28%



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

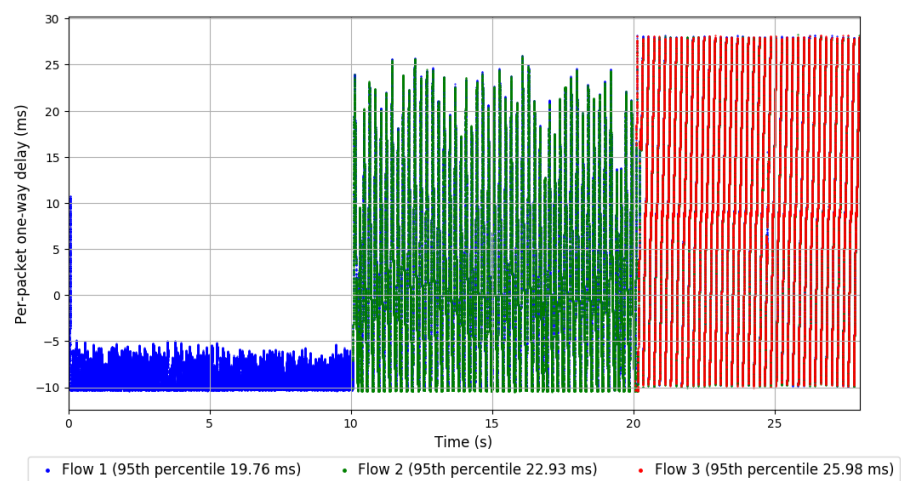
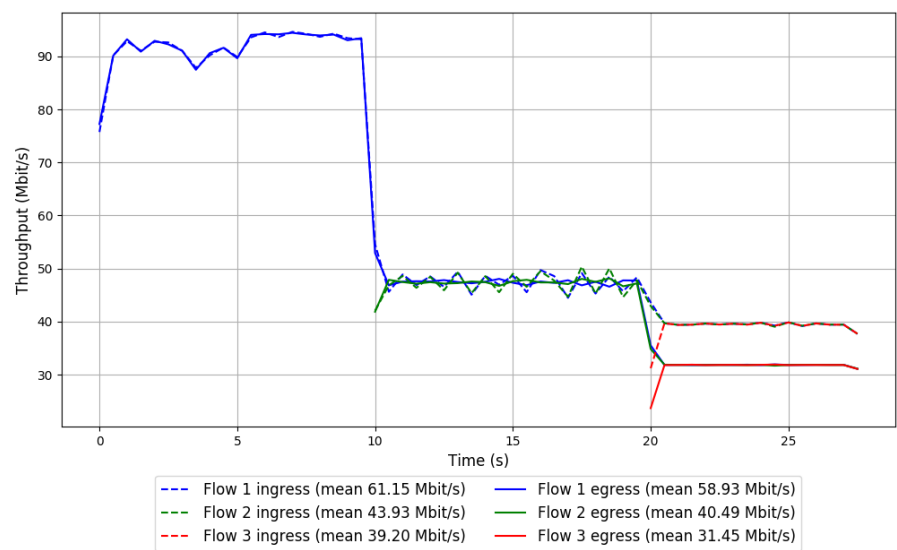


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 22:05:57  
End at: 2017-11-30 22:06:27  
Local clock offset: 6.251 ms  
Remote clock offset: -17.56 ms

# Below is generated by plot.py at 2017-12-01 00:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.85 Mbit/s  
95th percentile per-packet one-way delay: 22.138 ms  
Loss rate: 6.50%  
-- Flow 1:  
Average throughput: 58.93 Mbit/s  
95th percentile per-packet one-way delay: 19.758 ms  
Loss rate: 3.56%  
-- Flow 2:  
Average throughput: 40.49 Mbit/s  
95th percentile per-packet one-way delay: 22.926 ms  
Loss rate: 7.73%  
-- Flow 3:  
Average throughput: 31.45 Mbit/s  
95th percentile per-packet one-way delay: 25.981 ms  
Loss rate: 19.55%

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

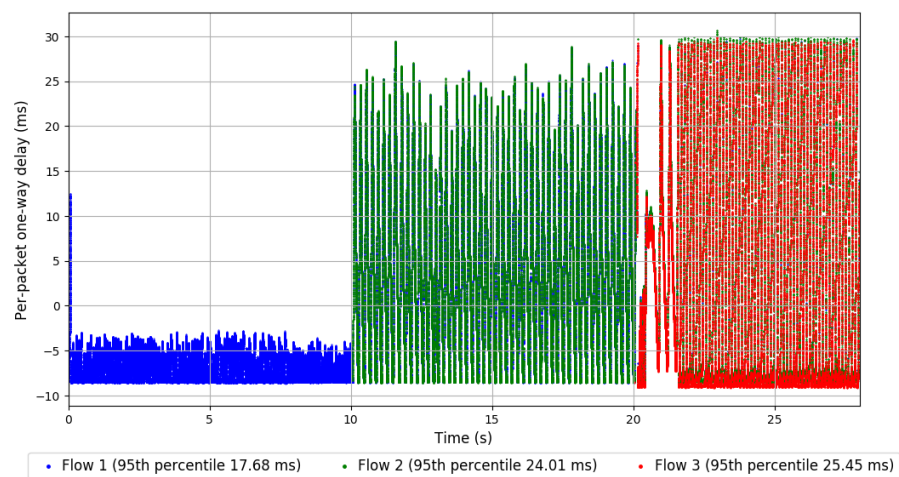
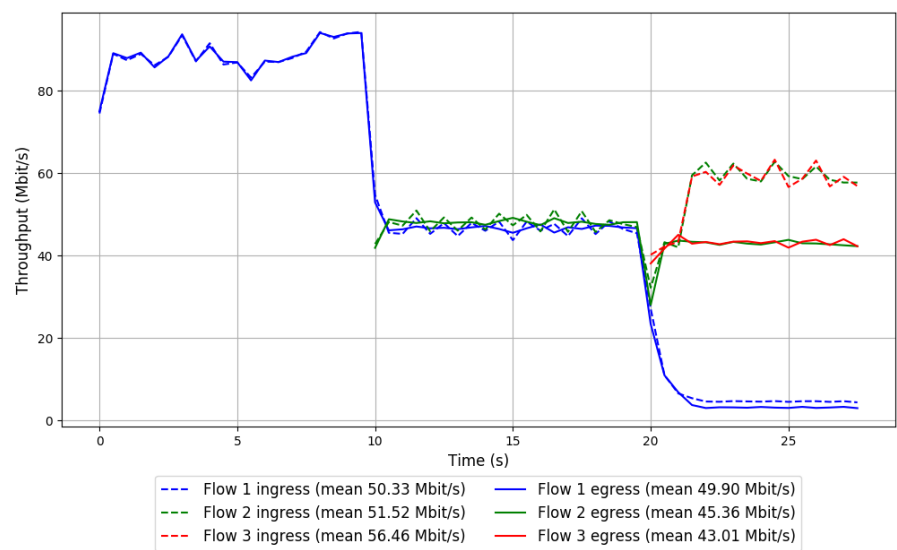


Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 22:23:46  
End at: 2017-11-30 22:24:16  
Local clock offset: 3.887 ms  
Remote clock offset: -19.172 ms

# Below is generated by plot.py at 2017-12-01 00:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.25 Mbit/s  
95th percentile per-packet one-way delay: 22.183 ms  
Loss rate: 8.15%  
-- Flow 1:  
Average throughput: 49.90 Mbit/s  
95th percentile per-packet one-way delay: 17.679 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 45.36 Mbit/s  
95th percentile per-packet one-way delay: 24.008 ms  
Loss rate: 11.86%  
-- Flow 3:  
Average throughput: 43.01 Mbit/s  
95th percentile per-packet one-way delay: 25.454 ms  
Loss rate: 23.61%

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

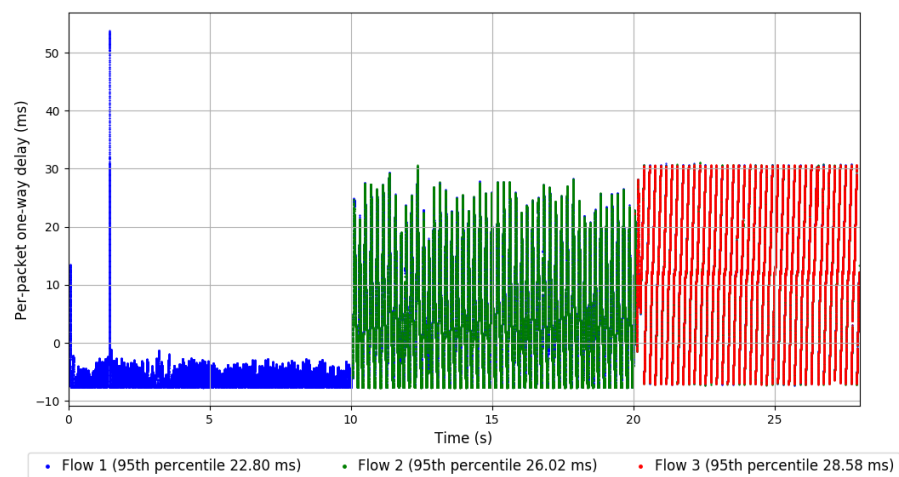
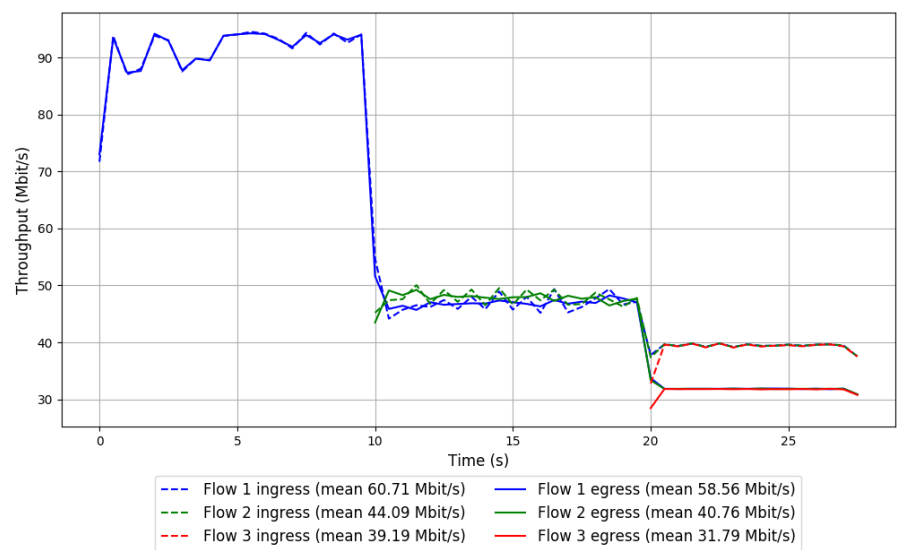


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 22:40:45  
End at: 2017-11-30 22:41:15  
Local clock offset: 1.783 ms  
Remote clock offset: -19.395 ms

# Below is generated by plot.py at 2017-12-01 00:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.74 Mbit/s  
95th percentile per-packet one-way delay: 25.086 ms  
Loss rate: 6.33%  
-- Flow 1:  
Average throughput: 58.56 Mbit/s  
95th percentile per-packet one-way delay: 22.803 ms  
Loss rate: 3.48%  
-- Flow 2:  
Average throughput: 40.76 Mbit/s  
95th percentile per-packet one-way delay: 26.021 ms  
Loss rate: 7.47%  
-- Flow 3:  
Average throughput: 31.79 Mbit/s  
95th percentile per-packet one-way delay: 28.580 ms  
Loss rate: 18.99%

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



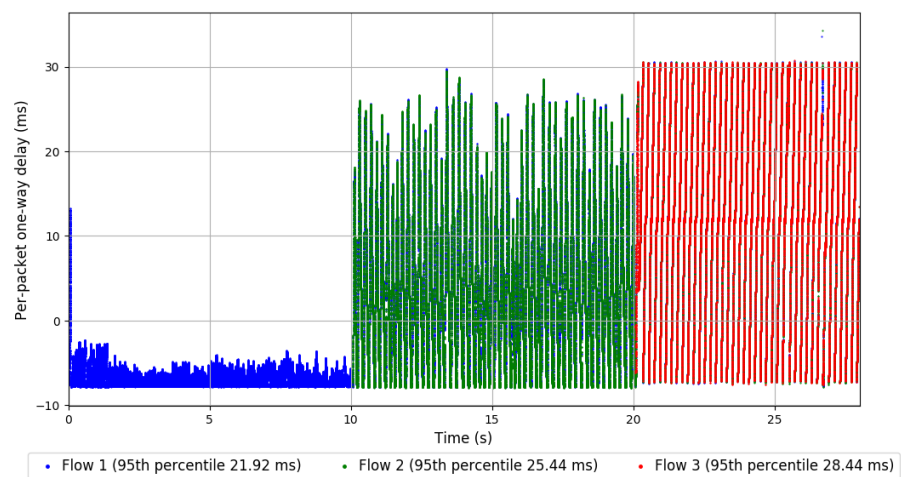
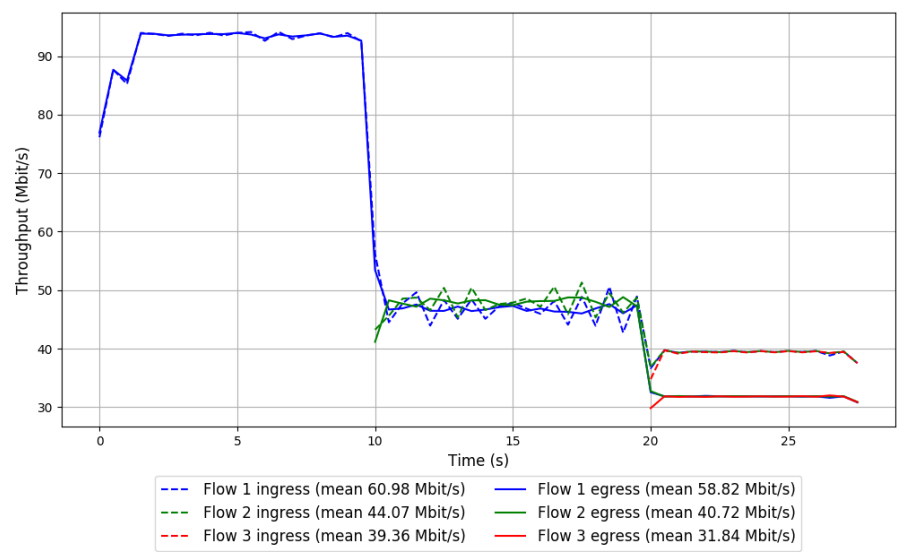
Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 22:57:42  
End at: 2017-11-30 22:58:12  
Local clock offset: 0.913 ms  
Remote clock offset: -19.634 ms

# Below is generated by plot.py at 2017-12-01 00:09:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.00 Mbit/s  
95th percentile per-packet one-way delay: 24.589 ms  
Loss rate: 6.33%  
-- Flow 1:  
Average throughput: 58.82 Mbit/s  
95th percentile per-packet one-way delay: 21.924 ms  
Loss rate: 3.47%  
-- Flow 2:  
Average throughput: 40.72 Mbit/s  
95th percentile per-packet one-way delay: 25.441 ms  
Loss rate: 7.50%  
-- Flow 3:  
Average throughput: 31.84 Mbit/s  
95th percentile per-packet one-way delay: 28.444 ms  
Loss rate: 18.94%



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

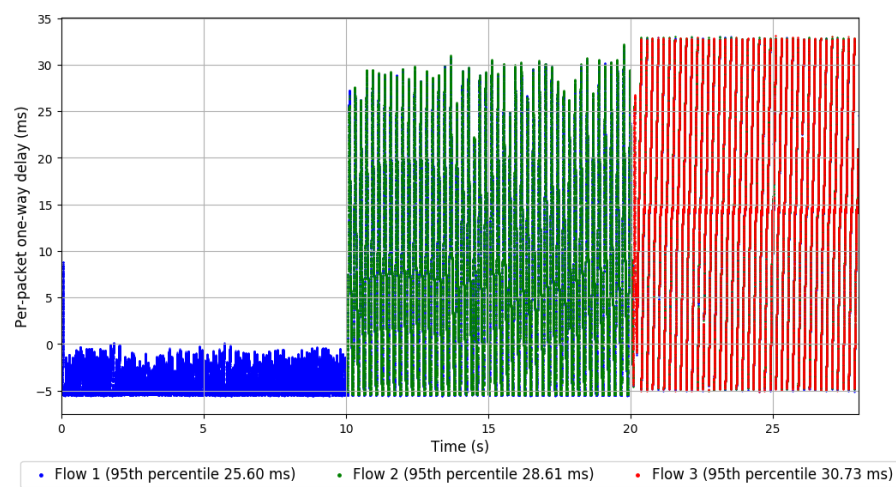
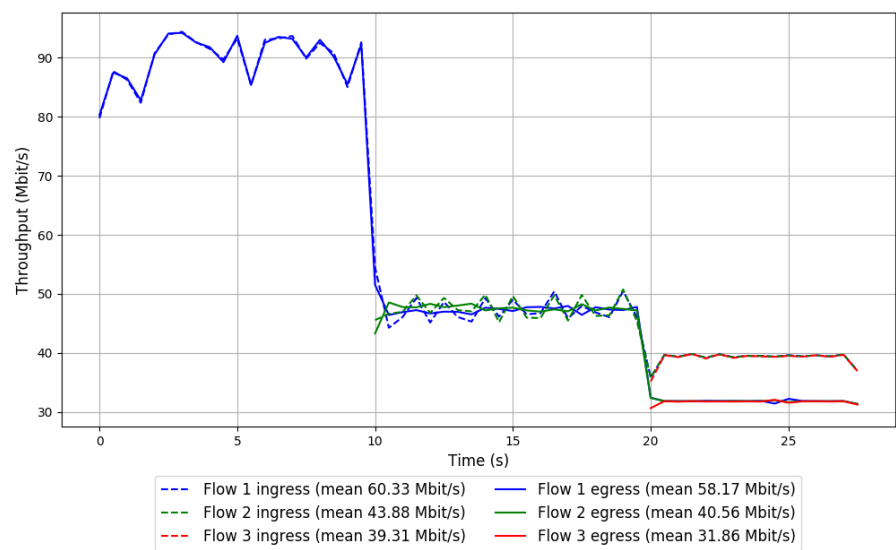


Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 23:14:37  
End at: 2017-11-30 23:15:07  
Local clock offset: -0.68 ms  
Remote clock offset: -18.207 ms

# Below is generated by plot.py at 2017-12-01 00:11:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.27 Mbit/s  
95th percentile per-packet one-way delay: 27.711 ms  
Loss rate: 6.32%  
-- Flow 1:  
Average throughput: 58.17 Mbit/s  
95th percentile per-packet one-way delay: 25.597 ms  
Loss rate: 3.48%  
-- Flow 2:  
Average throughput: 40.56 Mbit/s  
95th percentile per-packet one-way delay: 28.605 ms  
Loss rate: 7.46%  
-- Flow 3:  
Average throughput: 31.86 Mbit/s  
95th percentile per-packet one-way delay: 30.730 ms  
Loss rate: 18.81%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 23:31:41

End at: 2017-11-30 23:32:11

Local clock offset: 0.951 ms

Remote clock offset: -19.946 ms

# Below is generated by plot.py at 2017-12-01 00:11:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 22.644 ms

Loss rate: 7.32%

-- Flow 1:

Average throughput: 59.56 Mbit/s

95th percentile per-packet one-way delay: 20.529 ms

Loss rate: 4.80%

-- Flow 2:

Average throughput: 35.21 Mbit/s

95th percentile per-packet one-way delay: 23.436 ms

Loss rate: 5.56%

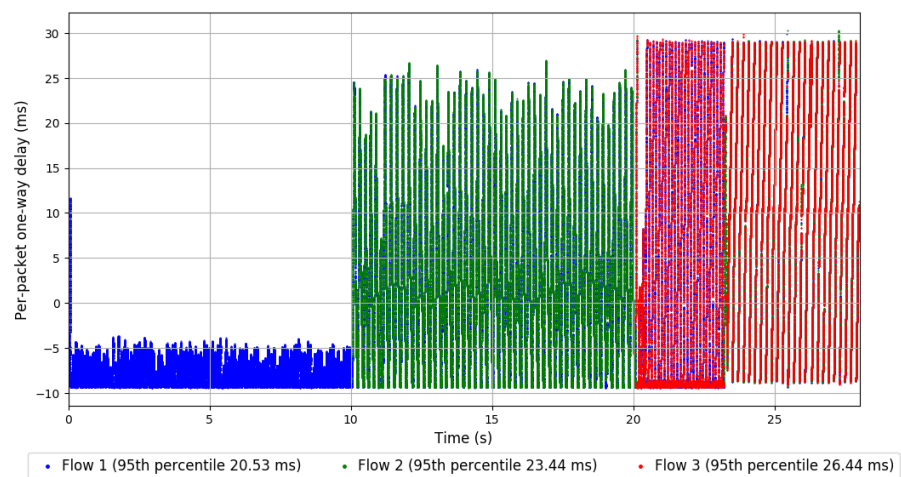
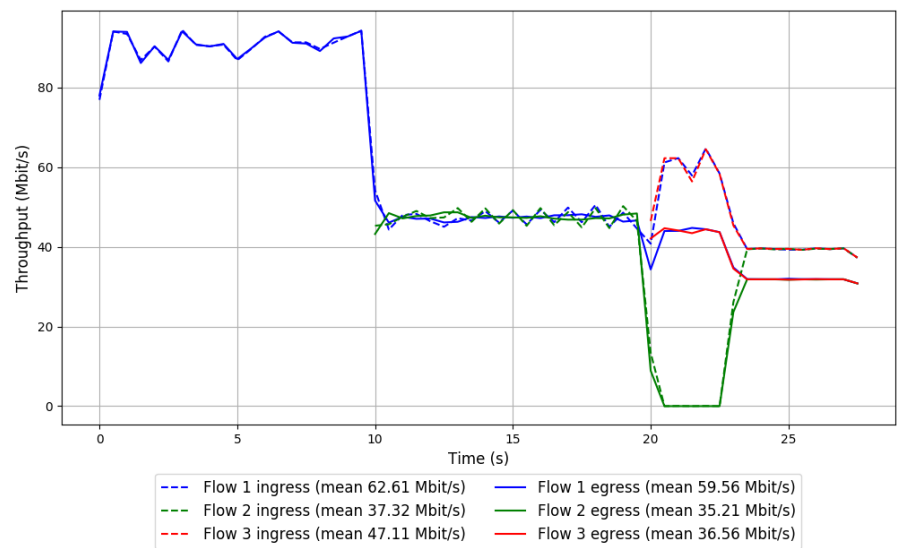
-- Flow 3:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 26.440 ms

Loss rate: 22.23%

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



Run 1: Statistics of TCP Vegas

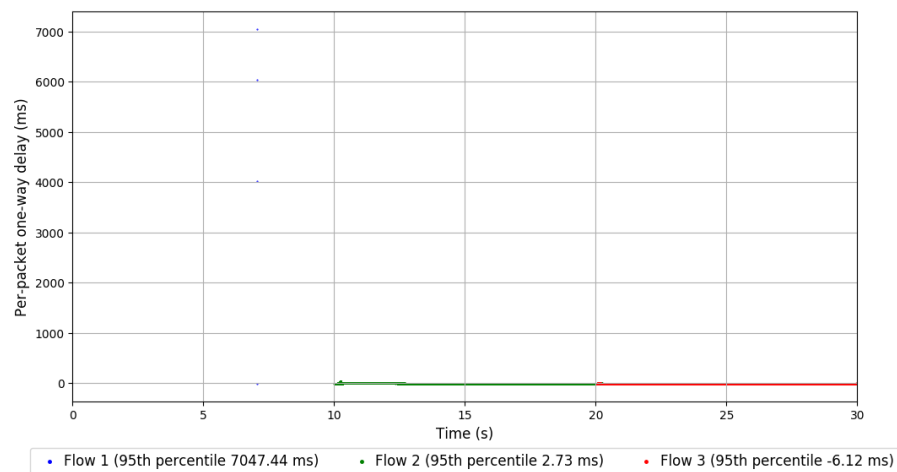
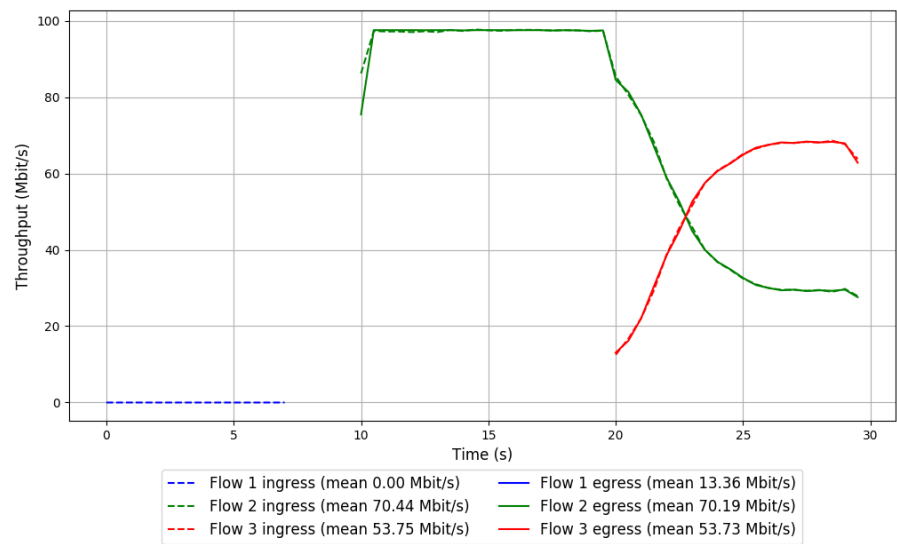
Start at: 2017-11-30 20:57:46

End at: 2017-11-30 20:58:16

Local clock offset: 2.242 ms

Remote clock offset: -18.386 ms

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 21:14:28

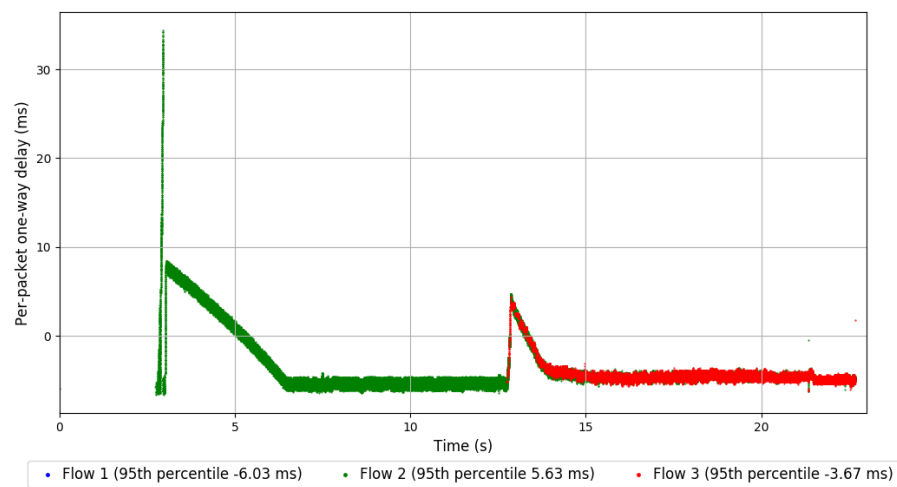
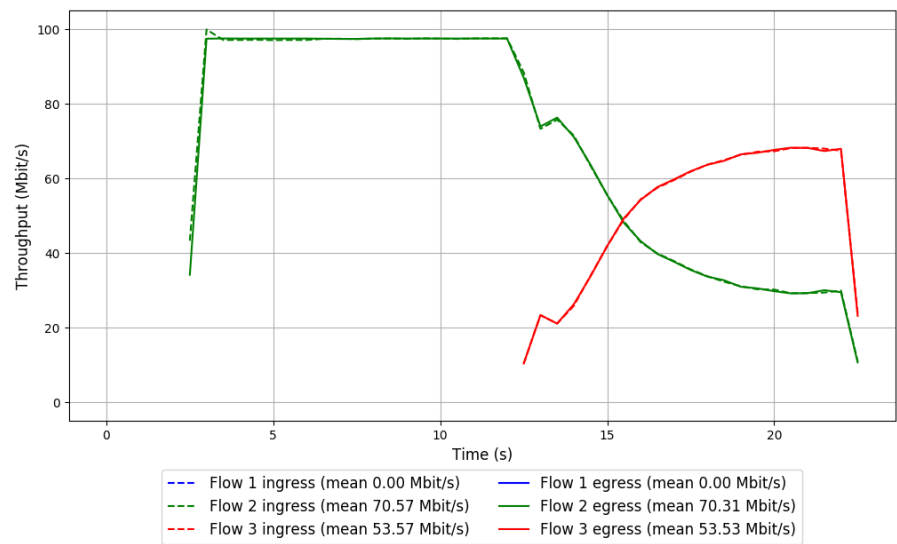
End at: 2017-11-30 21:14:58

Local clock offset: 2.614 ms

Remote clock offset: -16.822 ms



Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

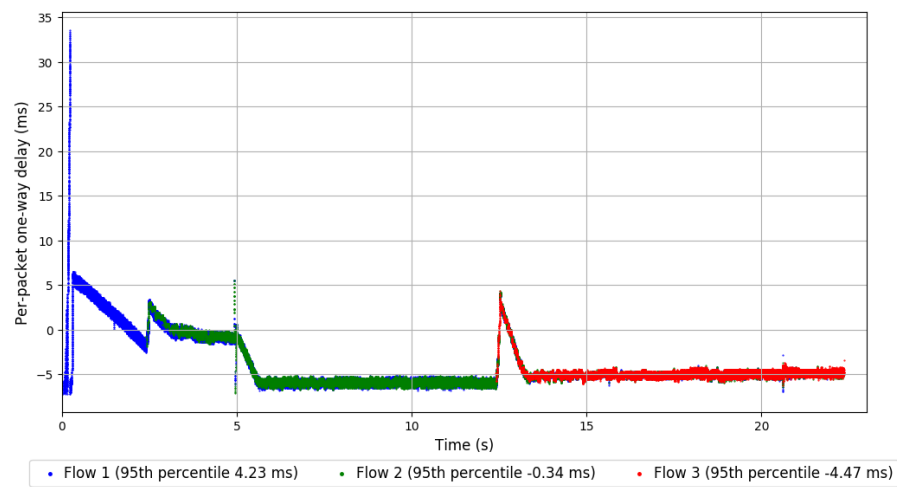
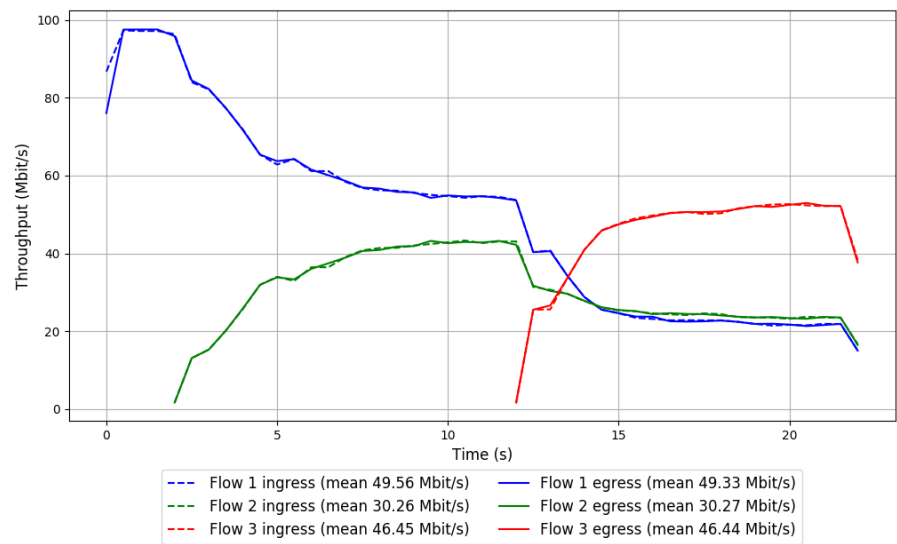
Start at: 2017-11-30 21:31:03

End at: 2017-11-30 21:31:33

Local clock offset: 3.045 ms

Remote clock offset: -17.417 ms

Run 3: Report of TCP Vegas — Data Link

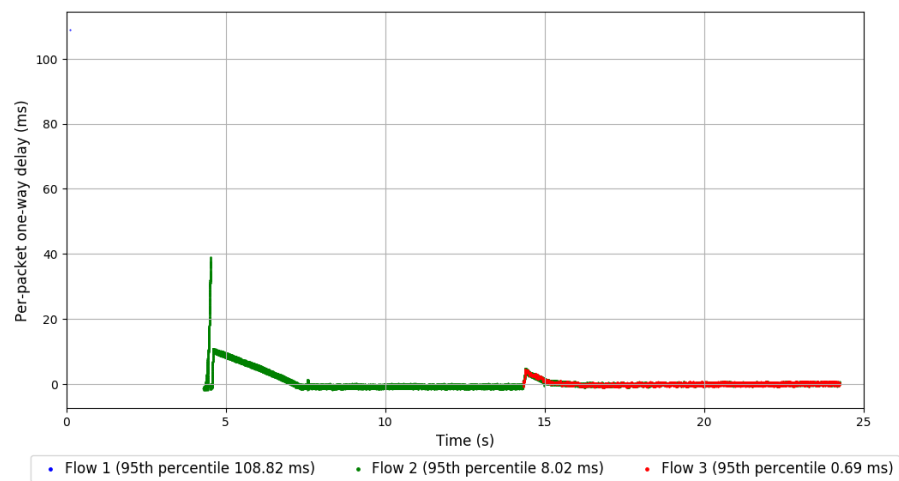
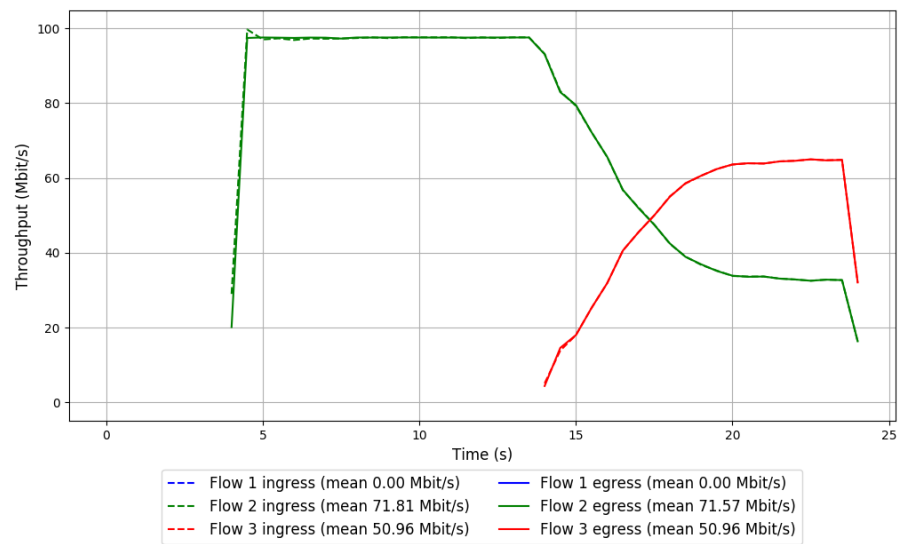


Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 21:47:54  
End at: 2017-11-30 21:48:24  
Local clock offset: -4.822 ms  
Remote clock offset: -20.126 ms

# Below is generated by plot.py at 2017-12-01 00:11:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.19 Mbit/s  
95th percentile per-packet one-way delay: 7.036 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 108.824 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 71.57 Mbit/s  
95th percentile per-packet one-way delay: 8.015 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 50.96 Mbit/s  
95th percentile per-packet one-way delay: 0.694 ms  
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

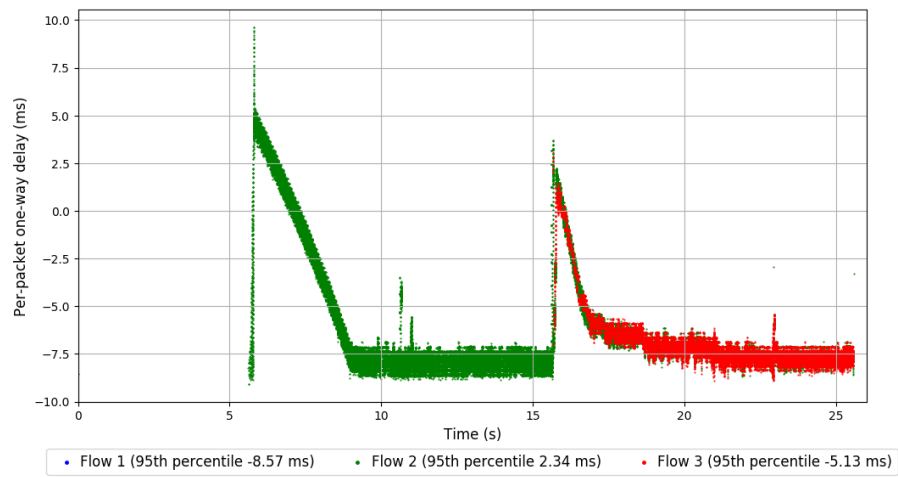
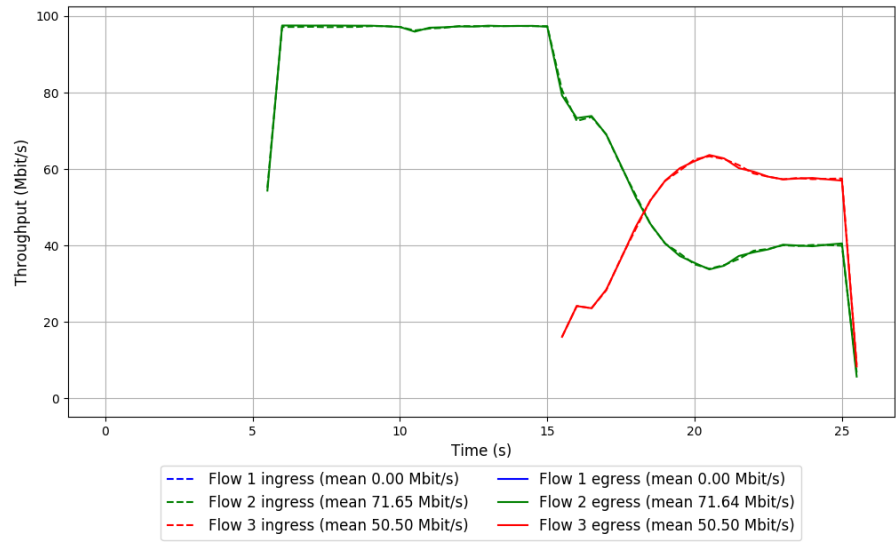


Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 22:04:45  
End at: 2017-11-30 22:05:15  
Local clock offset: 2.208 ms  
Remote clock offset: -20.064 ms

# Below is generated by plot.py at 2017-12-01 00:11:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.55 Mbit/s  
95th percentile per-packet one-way delay: 1.473 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: -8.571 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 71.64 Mbit/s  
95th percentile per-packet one-way delay: 2.340 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 50.50 Mbit/s  
95th percentile per-packet one-way delay: -5.130 ms  
Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link



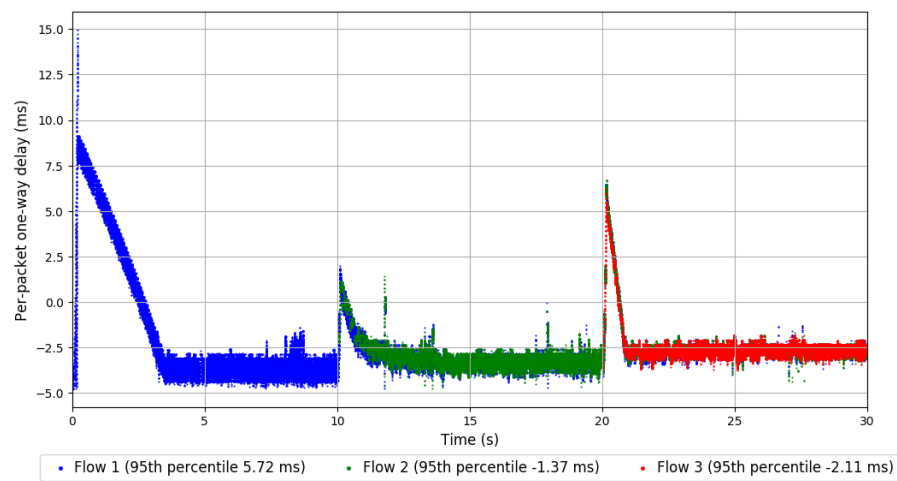
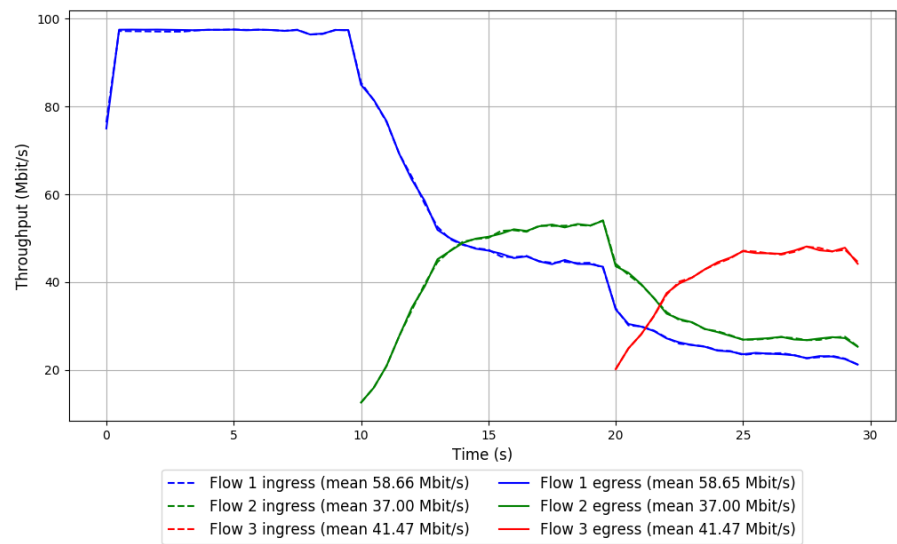
Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 22:22:32  
End at: 2017-11-30 22:23:02  
Local clock offset: 1.74 ms  
Remote clock offset: -17.488 ms

# Below is generated by plot.py at 2017-12-01 00:11:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.05 Mbit/s  
95th percentile per-packet one-way delay: 4.173 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.65 Mbit/s  
95th percentile per-packet one-way delay: 5.721 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.00 Mbit/s  
95th percentile per-packet one-way delay: -1.374 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.47 Mbit/s  
95th percentile per-packet one-way delay: -2.111 ms  
Loss rate: 0.00%



Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

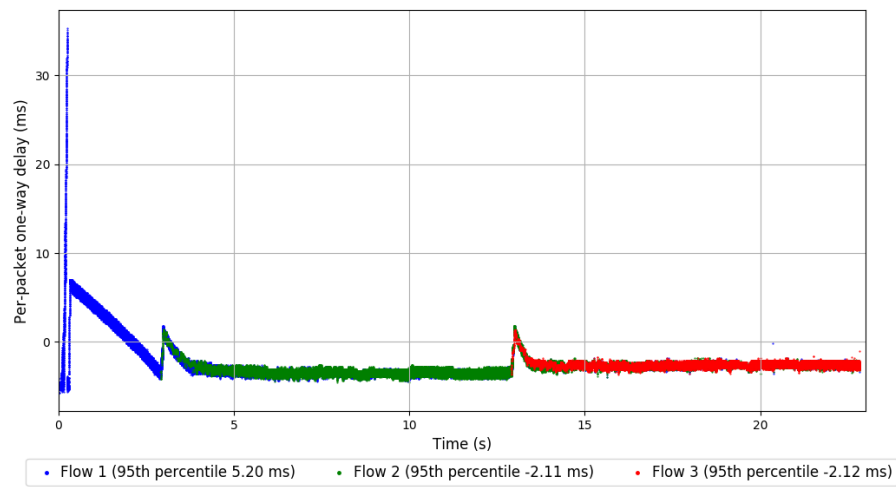
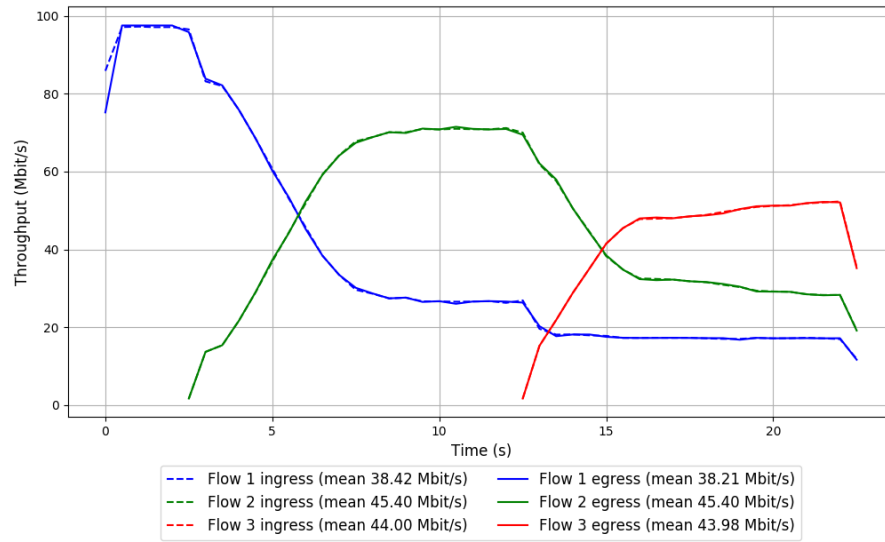
Start at: 2017-11-30 22:39:31

End at: 2017-11-30 22:40:01

Local clock offset: 1.763 ms

Remote clock offset: -17.466 ms

# Run 7: Report of TCP Vegas — Data Link

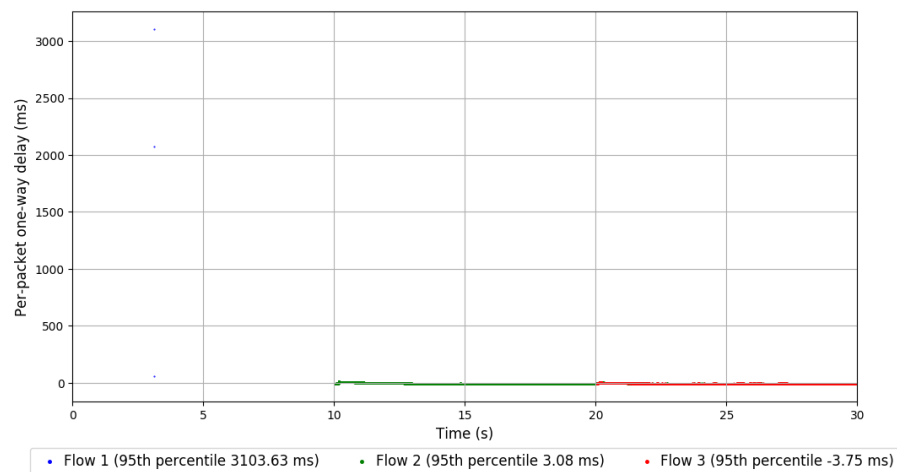
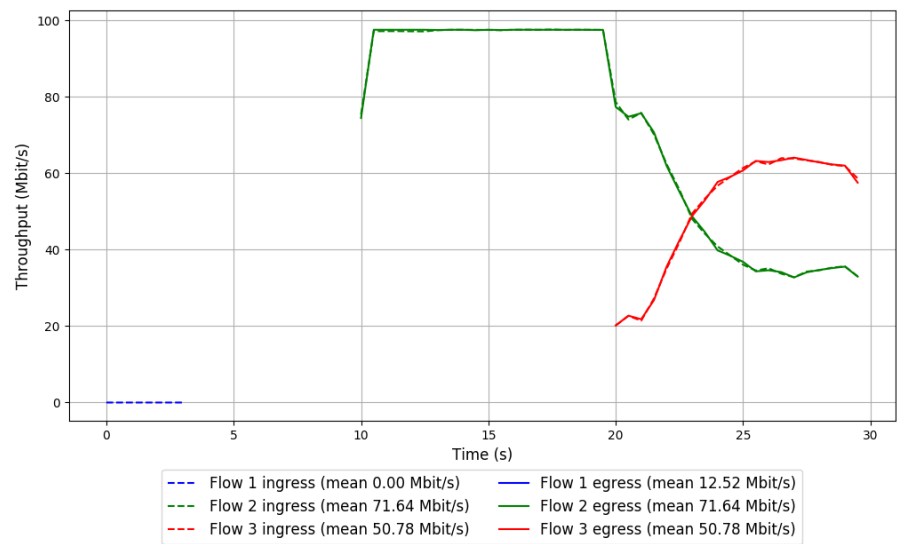


Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 22:56:31  
End at: 2017-11-30 22:57:01  
Local clock offset: 0.665 ms  
Remote clock offset: -19.199 ms

# Below is generated by plot.py at 2017-12-01 00:11:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.04 Mbit/s  
95th percentile per-packet one-way delay: 2.424 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.52 Mbit/s  
95th percentile per-packet one-way delay: 3103.626 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 71.64 Mbit/s  
95th percentile per-packet one-way delay: 3.085 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 50.78 Mbit/s  
95th percentile per-packet one-way delay: -3.747 ms  
Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link

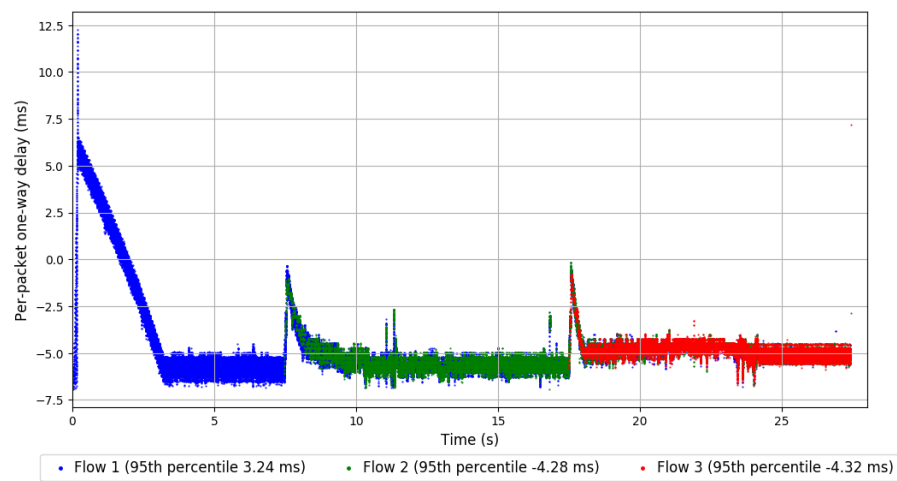
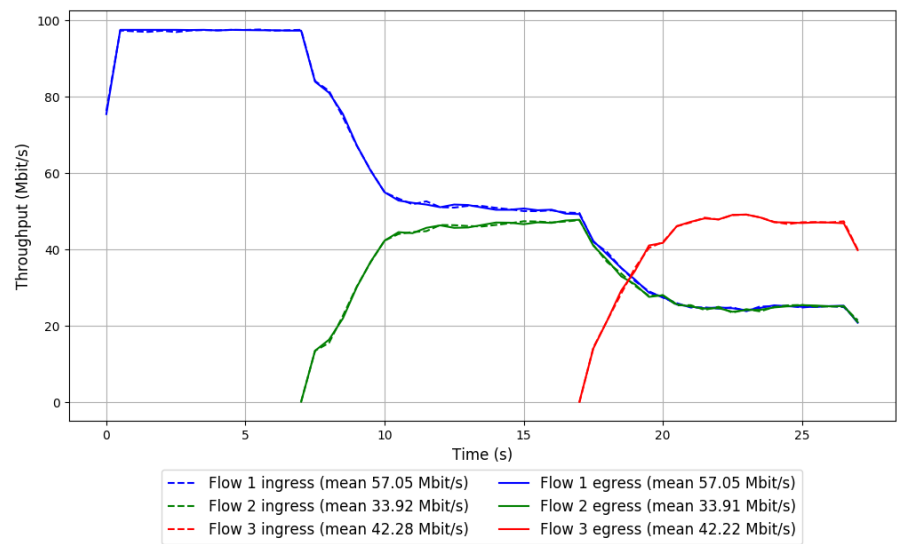


Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 23:13:21  
End at: 2017-11-30 23:13:51  
Local clock offset: 0.741 ms  
Remote clock offset: -18.28 ms

# Below is generated by plot.py at 2017-12-01 00:11:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.04 Mbit/s  
95th percentile per-packet one-way delay: 1.156 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.05 Mbit/s  
95th percentile per-packet one-way delay: 3.237 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 33.91 Mbit/s  
95th percentile per-packet one-way delay: -4.275 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 42.22 Mbit/s  
95th percentile per-packet one-way delay: -4.321 ms  
Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 23:30:30

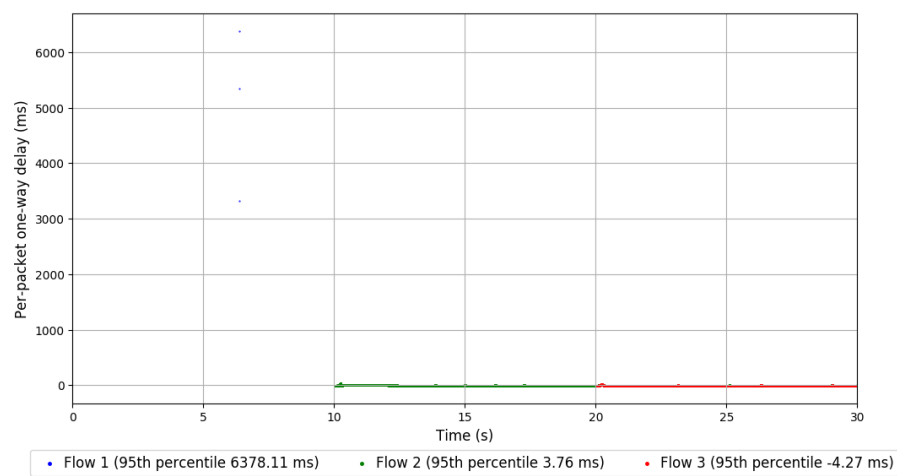
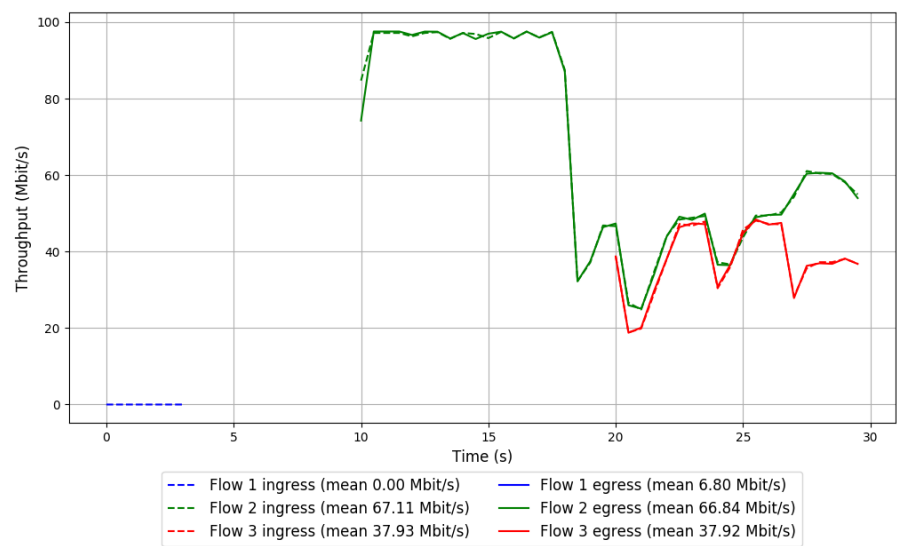
End at: 2017-11-30 23:31:00

Local clock offset: -1.383 ms

Remote clock offset: -19.094 ms



Run 10: Report of TCP Vegas — Data Link

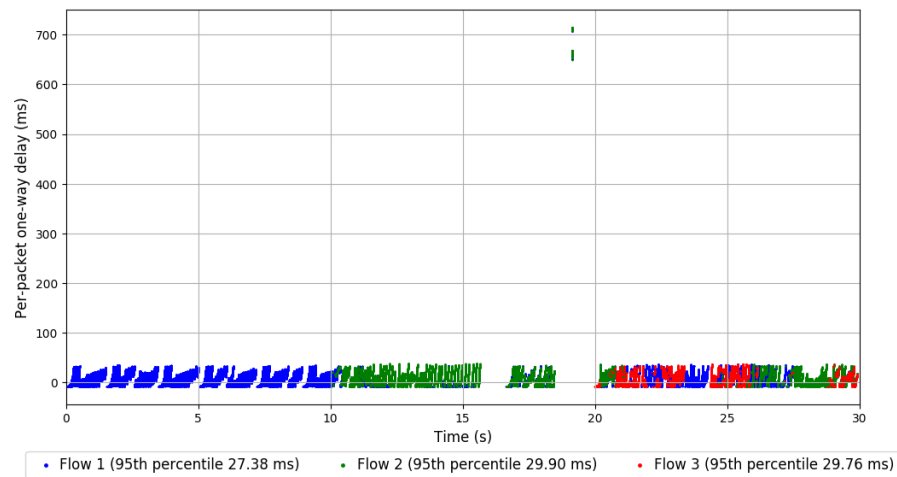
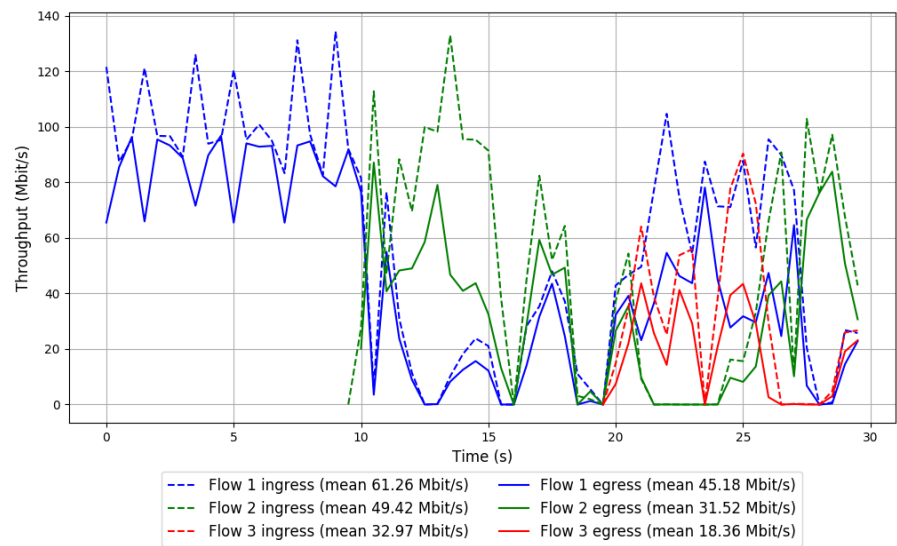


Run 1: Statistics of Verus

Start at: 2017-11-30 20:43:31  
End at: 2017-11-30 20:44:01  
Local clock offset: 3.049 ms  
Remote clock offset: -17.178 ms

# Below is generated by plot.py at 2017-12-01 00:11:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.25 Mbit/s  
95th percentile per-packet one-way delay: 28.496 ms  
Loss rate: 31.21%  
-- Flow 1:  
Average throughput: 45.18 Mbit/s  
95th percentile per-packet one-way delay: 27.381 ms  
Loss rate: 26.22%  
-- Flow 2:  
Average throughput: 31.52 Mbit/s  
95th percentile per-packet one-way delay: 29.900 ms  
Loss rate: 36.20%  
-- Flow 3:  
Average throughput: 18.36 Mbit/s  
95th percentile per-packet one-way delay: 29.762 ms  
Loss rate: 44.19%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

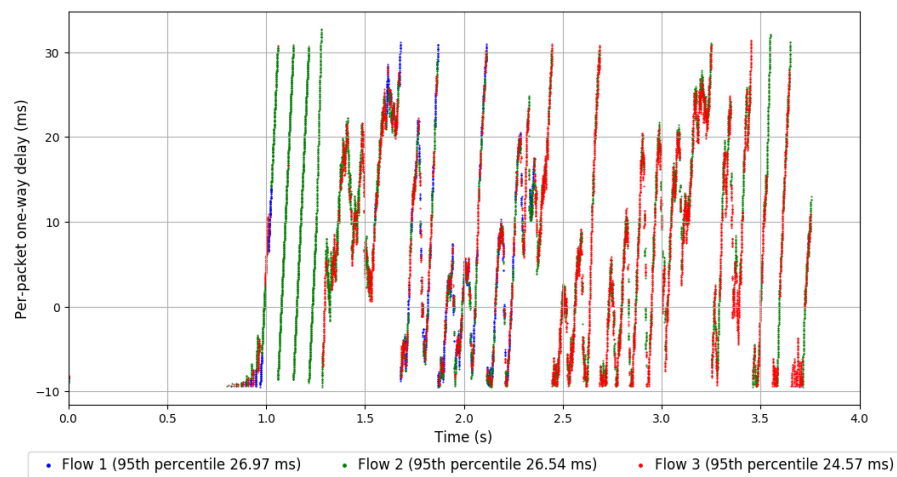
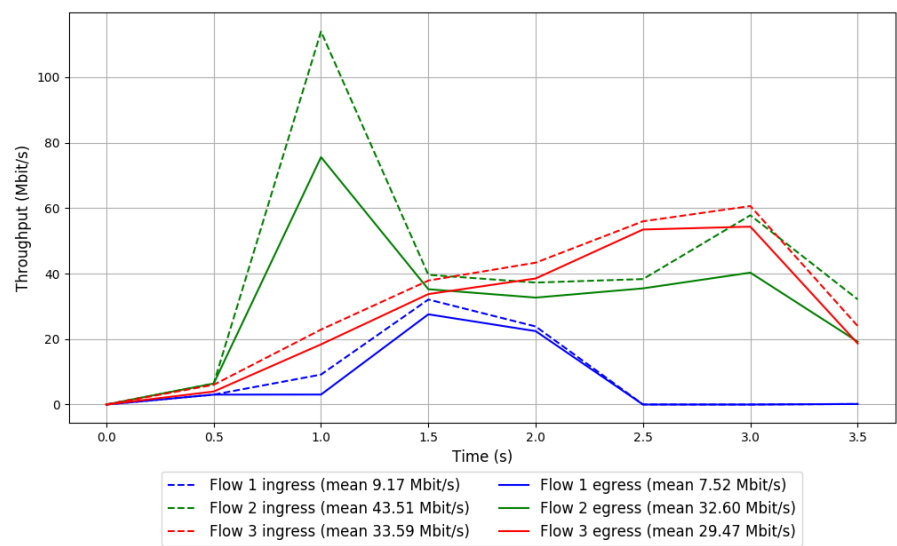
Start at: 2017-11-30 21:00:21

End at: 2017-11-30 21:00:51

Local clock offset: 2.921 ms

Remote clock offset: -18.551 ms

Run 2: Report of Verus — Data Link

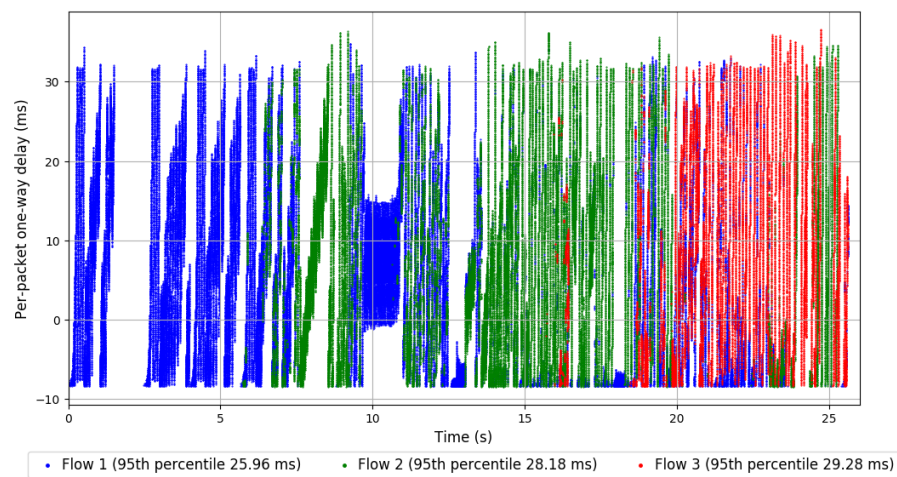
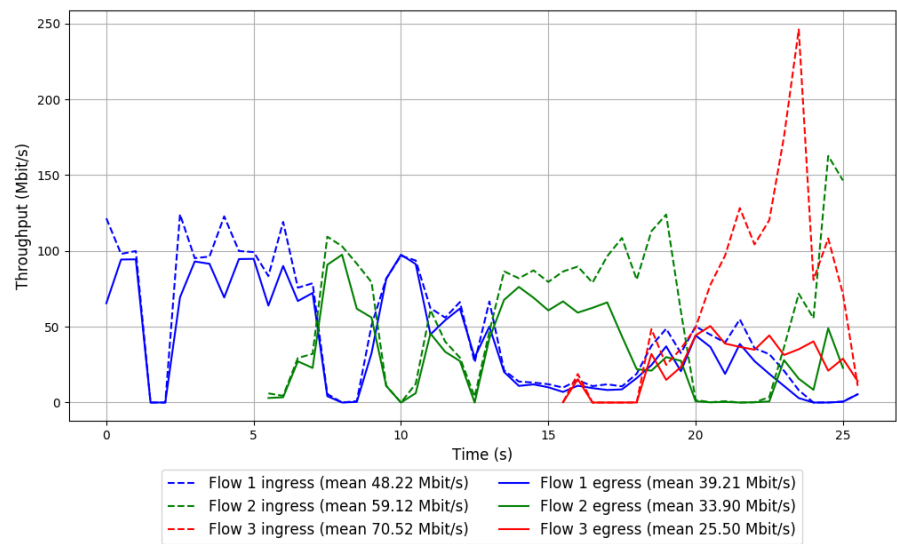


Run 3: Statistics of Verus

Start at: 2017-11-30 21:16:52  
End at: 2017-11-30 21:17:22  
Local clock offset: 3.876 ms  
Remote clock offset: -17.247 ms

# Below is generated by plot.py at 2017-12-01 00:12:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.98 Mbit/s  
95th percentile per-packet one-way delay: 27.338 ms  
Loss rate: 37.82%  
-- Flow 1:  
Average throughput: 39.21 Mbit/s  
95th percentile per-packet one-way delay: 25.964 ms  
Loss rate: 18.63%  
-- Flow 2:  
Average throughput: 33.90 Mbit/s  
95th percentile per-packet one-way delay: 28.180 ms  
Loss rate: 42.63%  
-- Flow 3:  
Average throughput: 25.50 Mbit/s  
95th percentile per-packet one-way delay: 29.279 ms  
Loss rate: 63.79%

Run 3: Report of Verus — Data Link



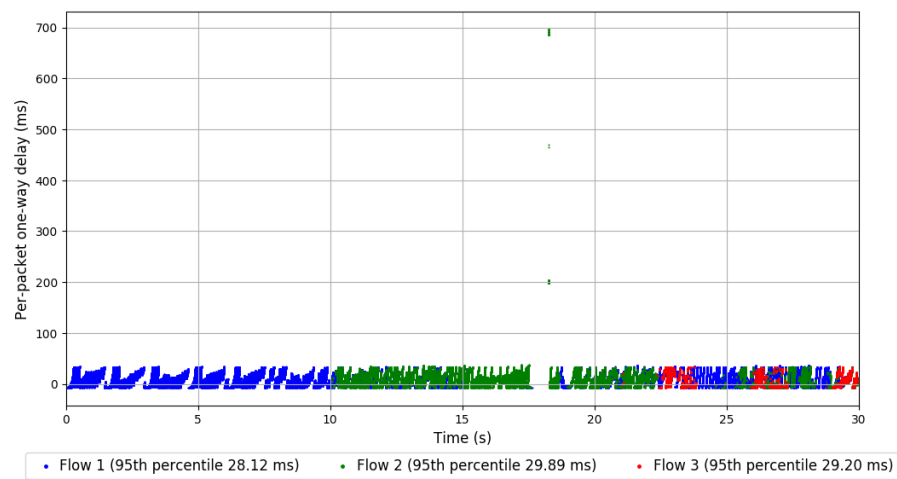
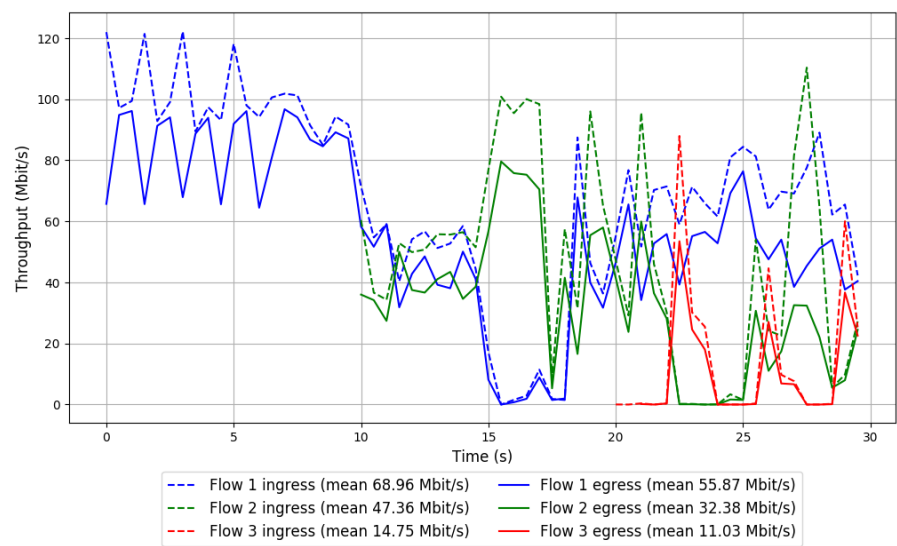
Run 4: Statistics of Verus

Start at: 2017-11-30 21:33:28  
End at: 2017-11-30 21:33:58  
Local clock offset: 4.34 ms  
Remote clock offset: -15.923 ms

# Below is generated by plot.py at 2017-12-01 00:12:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.70 Mbit/s  
95th percentile per-packet one-way delay: 28.657 ms  
Loss rate: 23.38%  
-- Flow 1:  
Average throughput: 55.87 Mbit/s  
95th percentile per-packet one-way delay: 28.122 ms  
Loss rate: 18.96%  
-- Flow 2:  
Average throughput: 32.38 Mbit/s  
95th percentile per-packet one-way delay: 29.886 ms  
Loss rate: 31.60%  
-- Flow 3:  
Average throughput: 11.03 Mbit/s  
95th percentile per-packet one-way delay: 29.197 ms  
Loss rate: 32.71%



Run 4: Report of Verus — Data Link

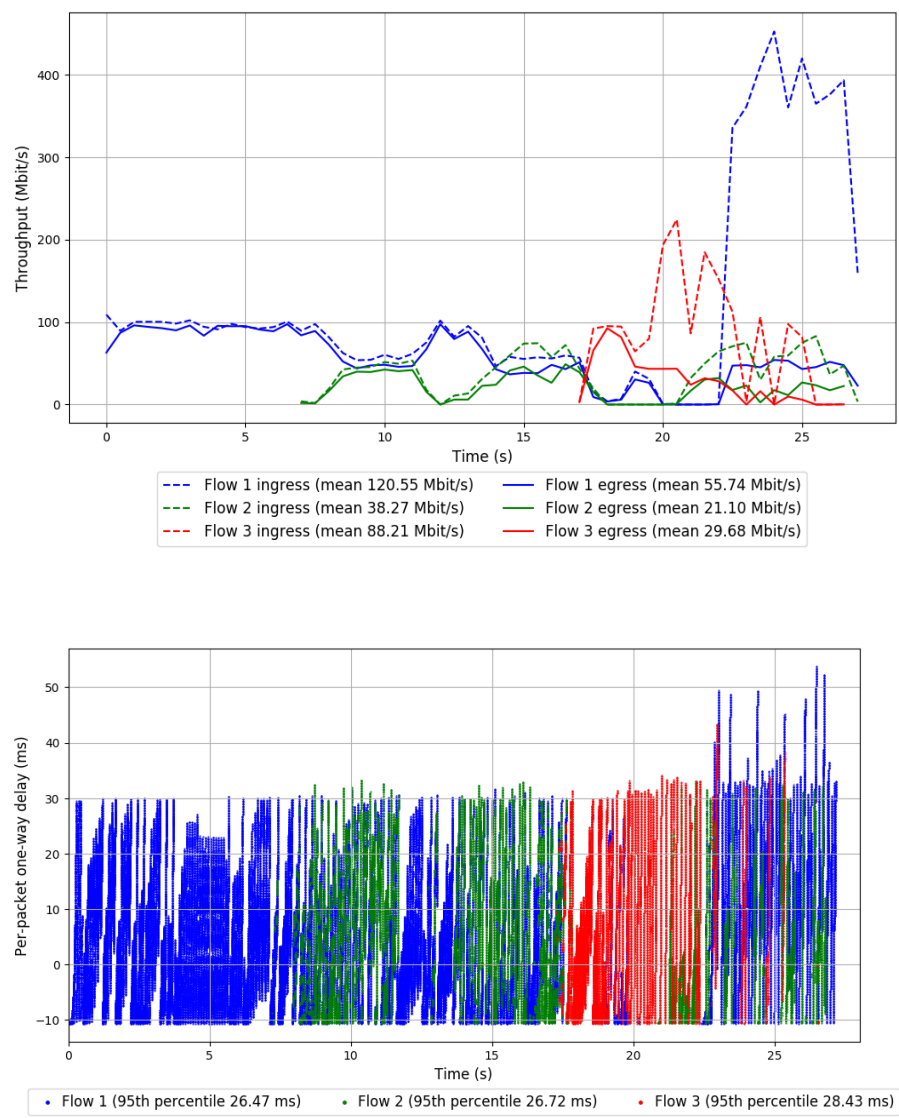


Run 5: Statistics of Verus

Start at: 2017-11-30 21:50:20  
End at: 2017-11-30 21:50:50  
Local clock offset: 5.79 ms  
Remote clock offset: -18.466 ms

# Below is generated by plot.py at 2017-12-01 00:12:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.12 Mbit/s  
95th percentile per-packet one-way delay: 26.827 ms  
Loss rate: 54.71%  
-- Flow 1:  
Average throughput: 55.74 Mbit/s  
95th percentile per-packet one-way delay: 26.469 ms  
Loss rate: 53.69%  
-- Flow 2:  
Average throughput: 21.10 Mbit/s  
95th percentile per-packet one-way delay: 26.720 ms  
Loss rate: 45.53%  
-- Flow 3:  
Average throughput: 29.68 Mbit/s  
95th percentile per-packet one-way delay: 28.425 ms  
Loss rate: 67.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

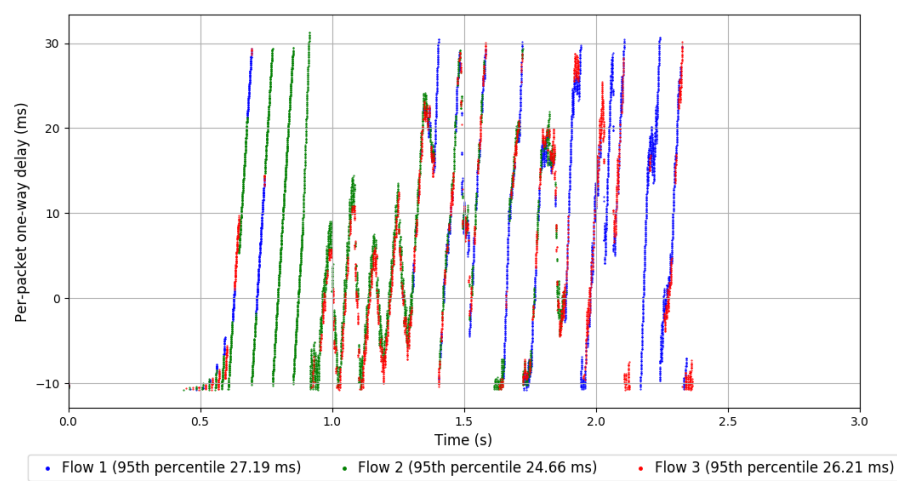
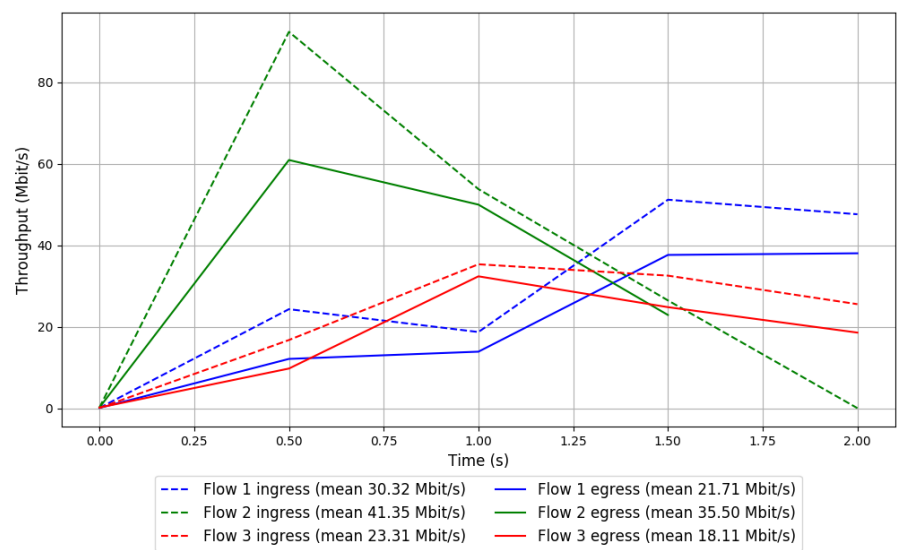
Start at: 2017-11-30 22:07:20

End at: 2017-11-30 22:07:50

Local clock offset: 5.259 ms

Remote clock offset: -18.945 ms

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

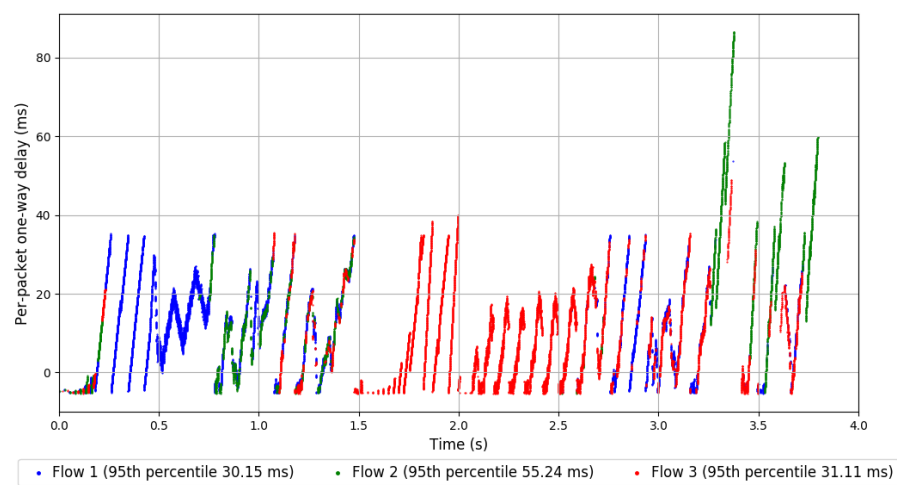
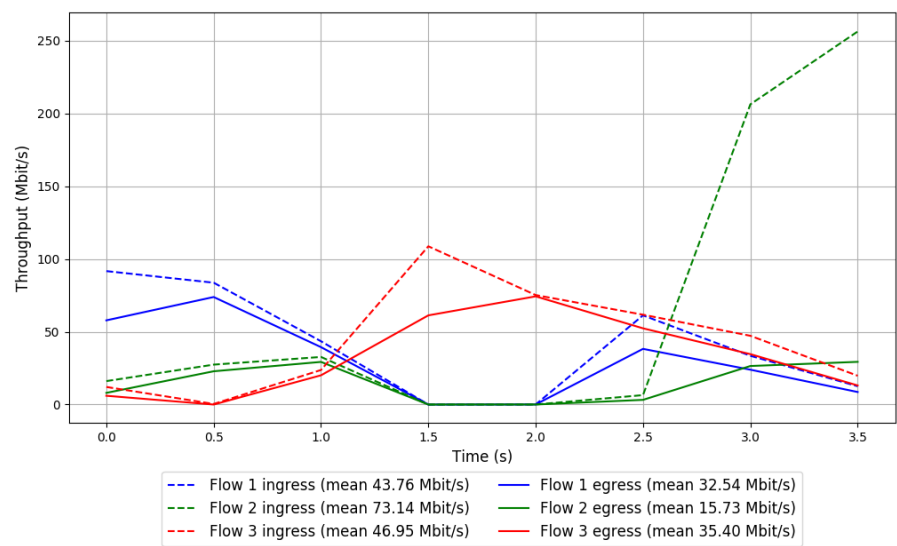
Start at: 2017-11-30 22:25:09

End at: 2017-11-30 22:25:39

Local clock offset: 1.741 ms

Remote clock offset: -18.035 ms

Run 7: Report of Verus — Data Link



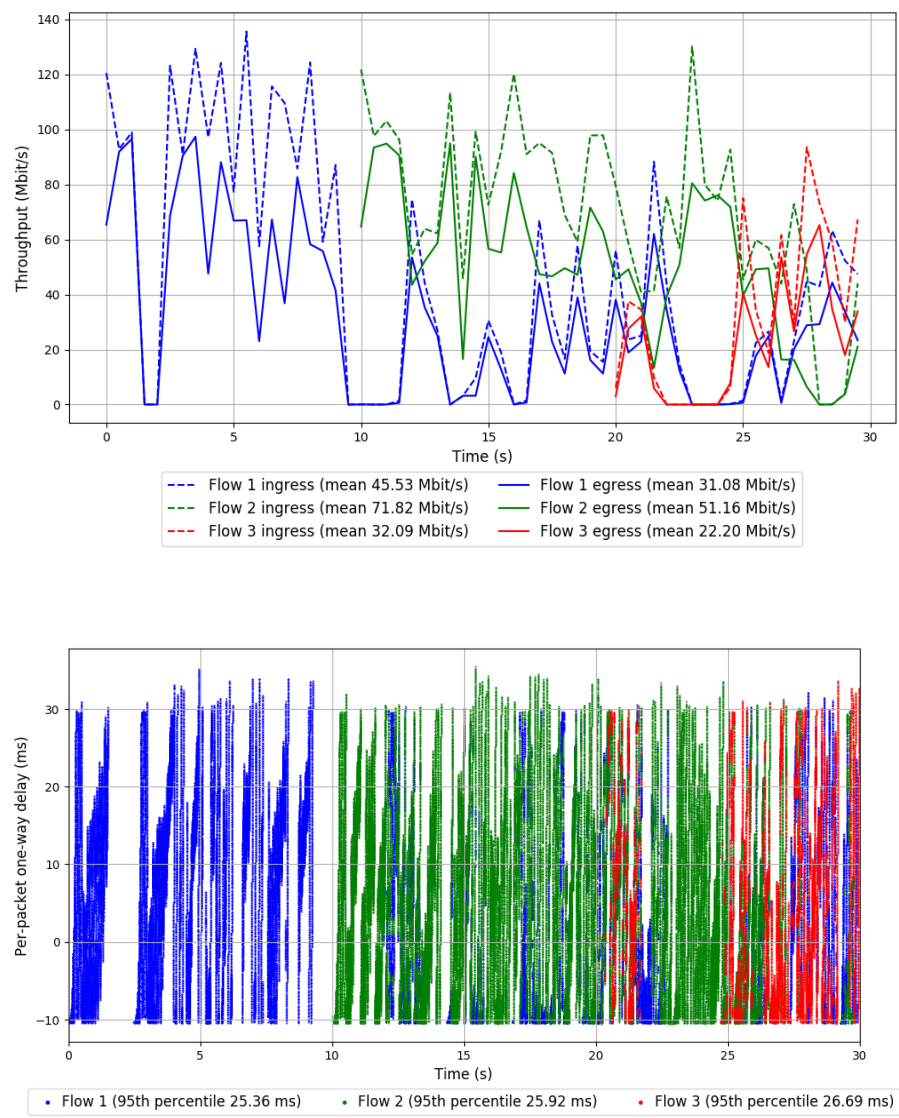
Run 8: Statistics of Verus

Start at: 2017-11-30 22:42:03  
End at: 2017-11-30 22:42:33  
Local clock offset: 4.131 ms  
Remote clock offset: -19.731 ms

# Below is generated by plot.py at 2017-12-01 00:12:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.19 Mbit/s  
95th percentile per-packet one-way delay: 25.792 ms  
Loss rate: 30.34%  
-- Flow 1:  
Average throughput: 31.08 Mbit/s  
95th percentile per-packet one-way delay: 25.363 ms  
Loss rate: 31.75%  
-- Flow 2:  
Average throughput: 51.16 Mbit/s  
95th percentile per-packet one-way delay: 25.924 ms  
Loss rate: 28.95%  
-- Flow 3:  
Average throughput: 22.20 Mbit/s  
95th percentile per-packet one-way delay: 26.694 ms  
Loss rate: 30.55%



Run 8: Report of Verus — Data Link

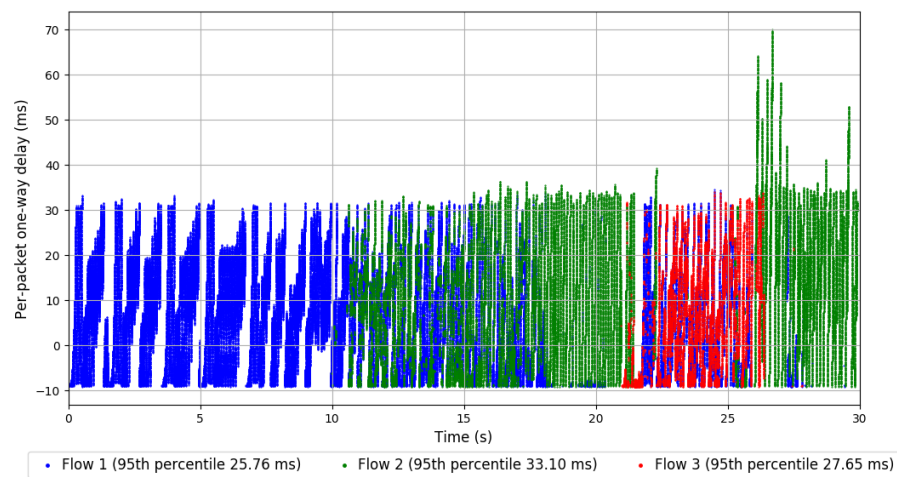
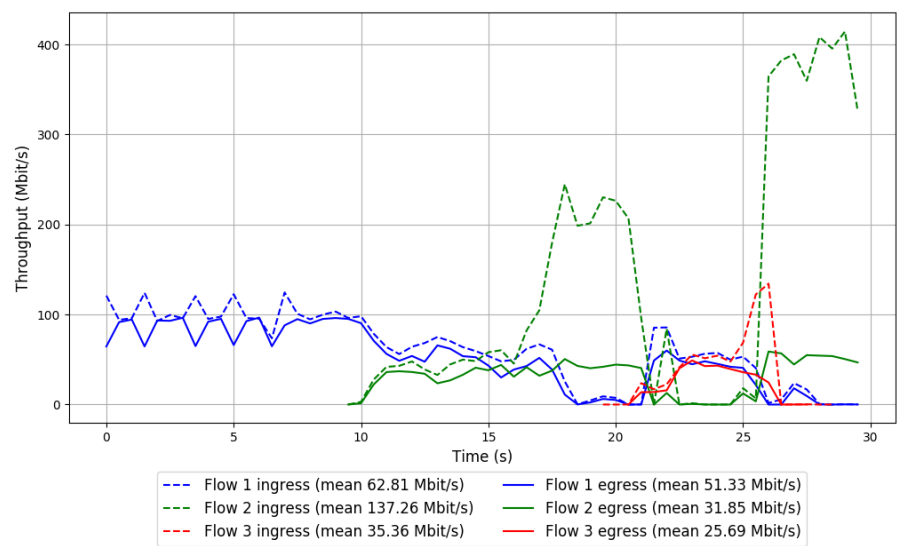


Run 9: Statistics of Verus

Start at: 2017-11-30 22:59:00  
End at: 2017-11-30 22:59:30  
Local clock offset: 2.311 ms  
Remote clock offset: -19.39 ms

# Below is generated by plot.py at 2017-12-01 00:12:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.77 Mbit/s  
95th percentile per-packet one-way delay: 28.481 ms  
Loss rate: 52.60%  
-- Flow 1:  
Average throughput: 51.33 Mbit/s  
95th percentile per-packet one-way delay: 25.763 ms  
Loss rate: 18.36%  
-- Flow 2:  
Average throughput: 31.85 Mbit/s  
95th percentile per-packet one-way delay: 33.102 ms  
Loss rate: 76.76%  
-- Flow 3:  
Average throughput: 25.69 Mbit/s  
95th percentile per-packet one-way delay: 27.651 ms  
Loss rate: 44.95%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

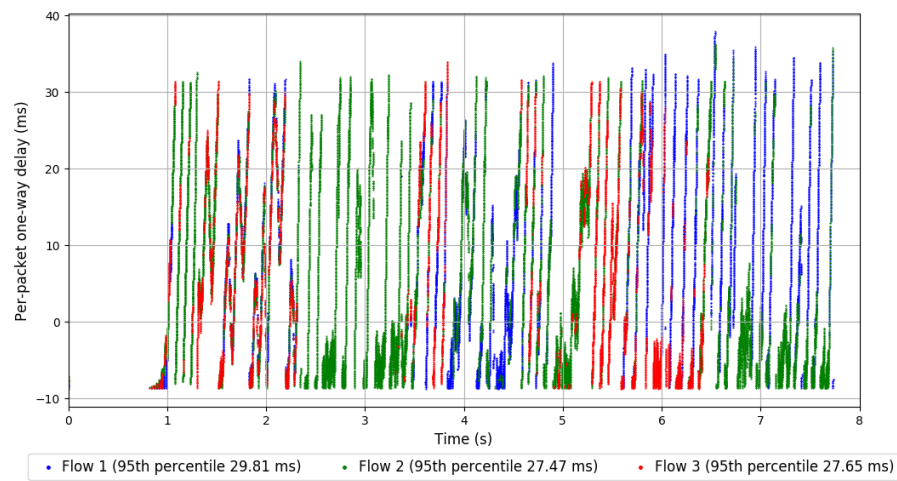
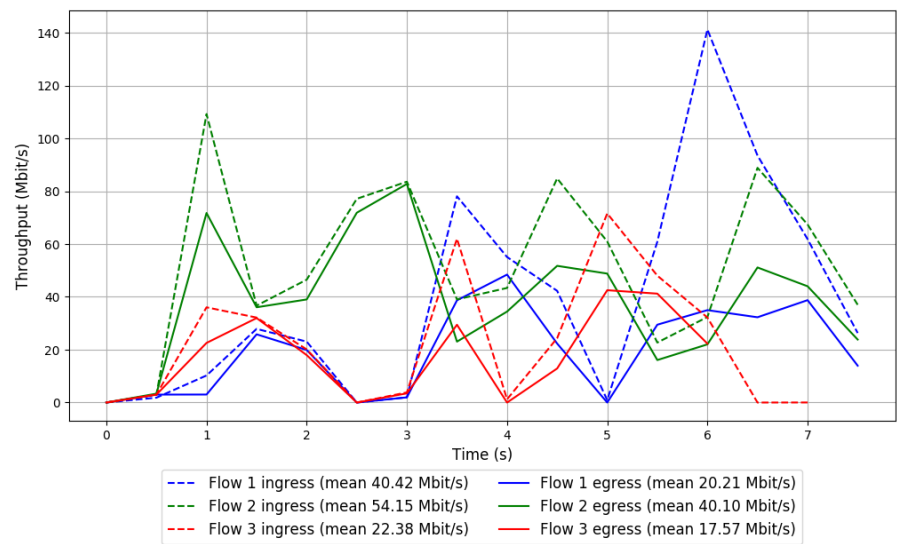
Start at: 2017-11-30 23:16:02

End at: 2017-11-30 23:16:32

Local clock offset: 1.473 ms

Remote clock offset: -19.227 ms

Run 10: Report of Verus — Data Link

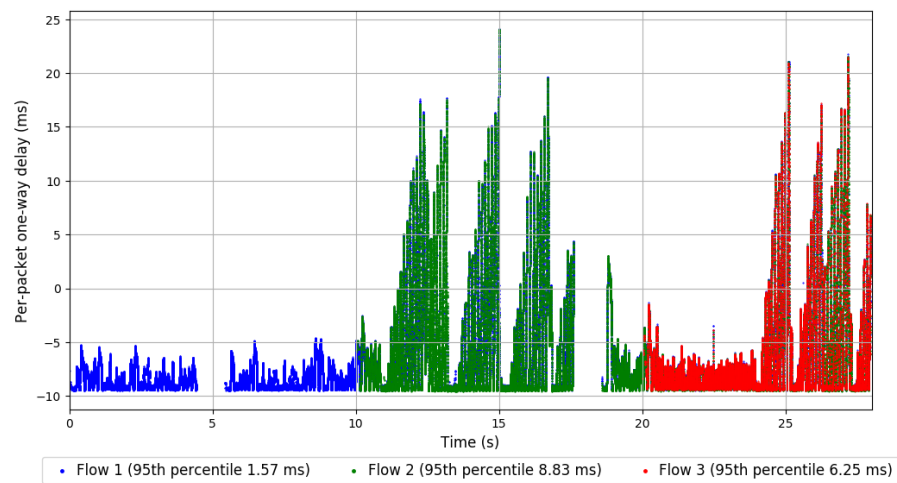
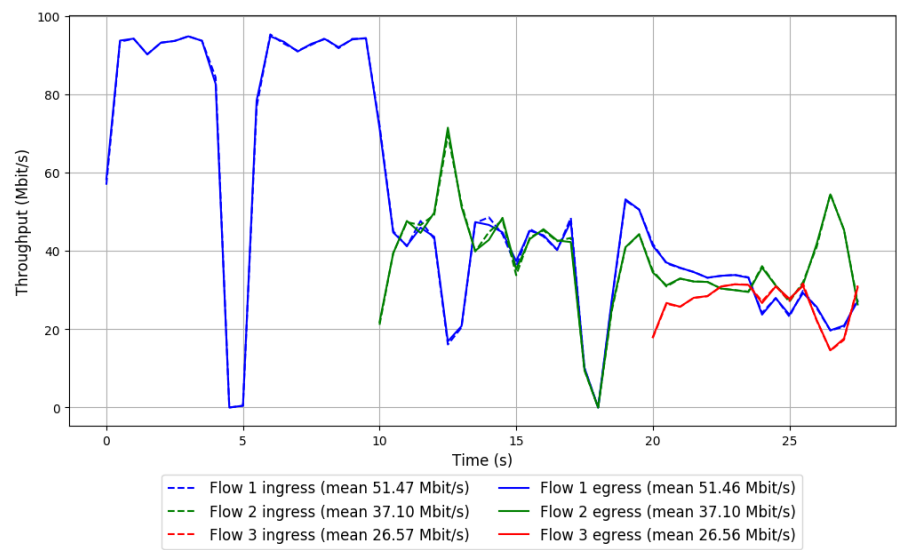


Run 1: Statistics of Copa

Start at: 2017-11-30 20:49:28  
End at: 2017-11-30 20:49:58  
Local clock offset: 4.495 ms  
Remote clock offset: -17.052 ms

# Below is generated by plot.py at 2017-12-01 00:13:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.82 Mbit/s  
95th percentile per-packet one-way delay: 5.151 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 51.46 Mbit/s  
95th percentile per-packet one-way delay: 1.571 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.10 Mbit/s  
95th percentile per-packet one-way delay: 8.831 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 26.56 Mbit/s  
95th percentile per-packet one-way delay: 6.249 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



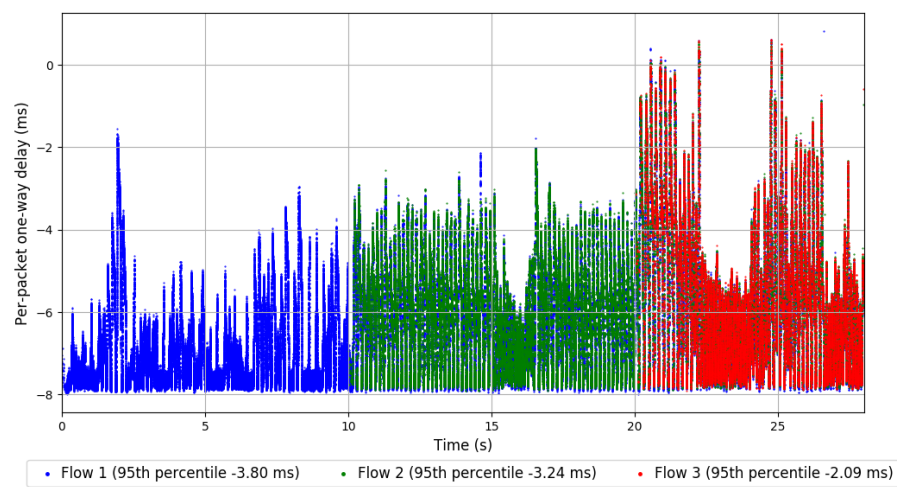
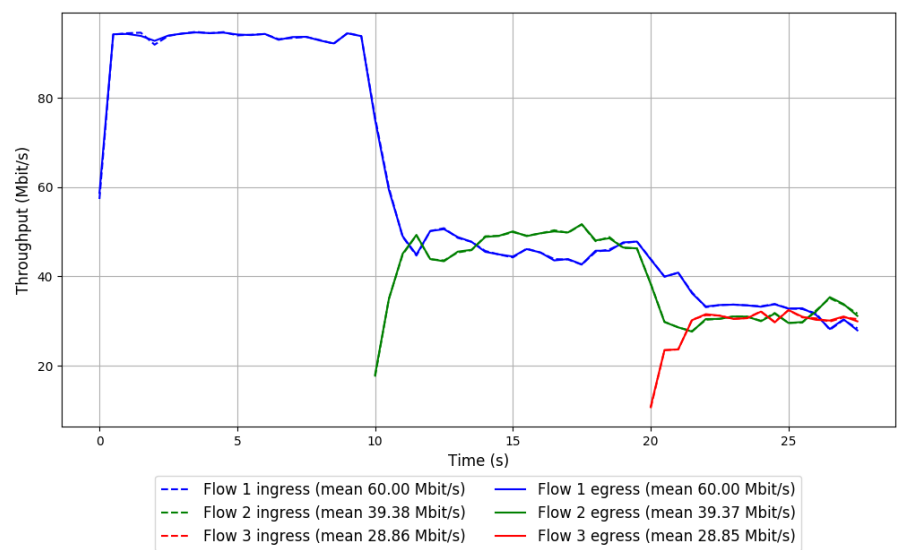
Run 2: Statistics of Copa

Start at: 2017-11-30 21:06:11  
End at: 2017-11-30 21:06:41  
Local clock offset: 3.799 ms  
Remote clock offset: -16.515 ms

# Below is generated by plot.py at 2017-12-01 00:14:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.47 Mbit/s  
95th percentile per-packet one-way delay: -3.437 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.00 Mbit/s  
95th percentile per-packet one-way delay: -3.799 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.37 Mbit/s  
95th percentile per-packet one-way delay: -3.236 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.85 Mbit/s  
95th percentile per-packet one-way delay: -2.092 ms  
Loss rate: 0.00%



Run 2: Report of Copa — Data Link

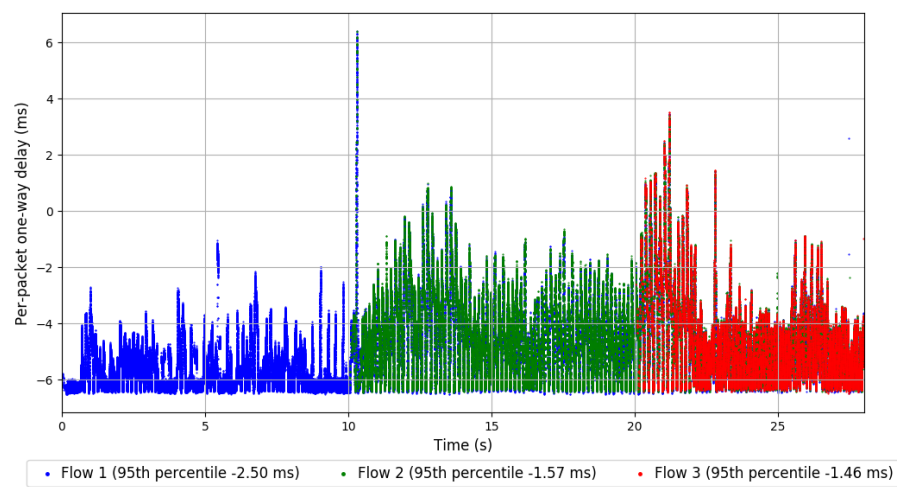
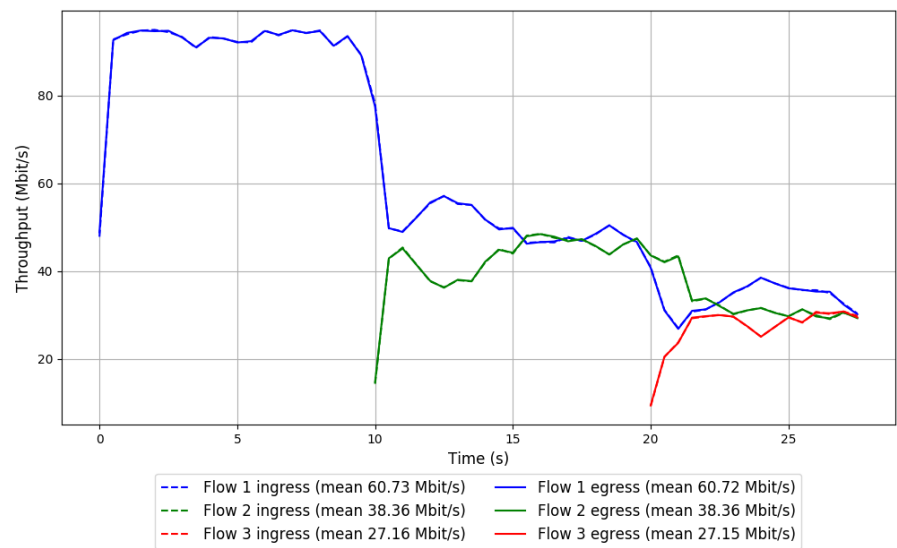


Run 3: Statistics of Copa

Start at: 2017-11-30 21:22:43  
End at: 2017-11-30 21:23:13  
Local clock offset: 3.17 ms  
Remote clock offset: -16.039 ms

# Below is generated by plot.py at 2017-12-01 00:14:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.02 Mbit/s  
95th percentile per-packet one-way delay: -2.108 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.72 Mbit/s  
95th percentile per-packet one-way delay: -2.498 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.36 Mbit/s  
95th percentile per-packet one-way delay: -1.572 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 27.15 Mbit/s  
95th percentile per-packet one-way delay: -1.462 ms  
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

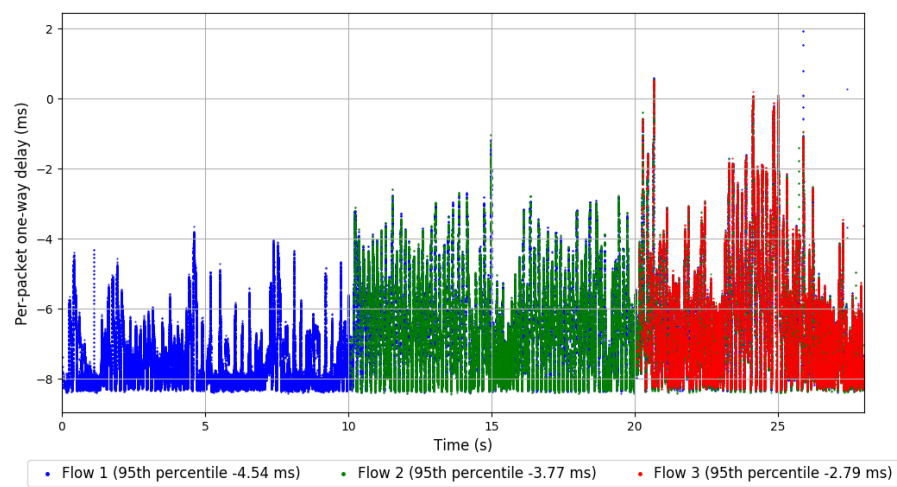
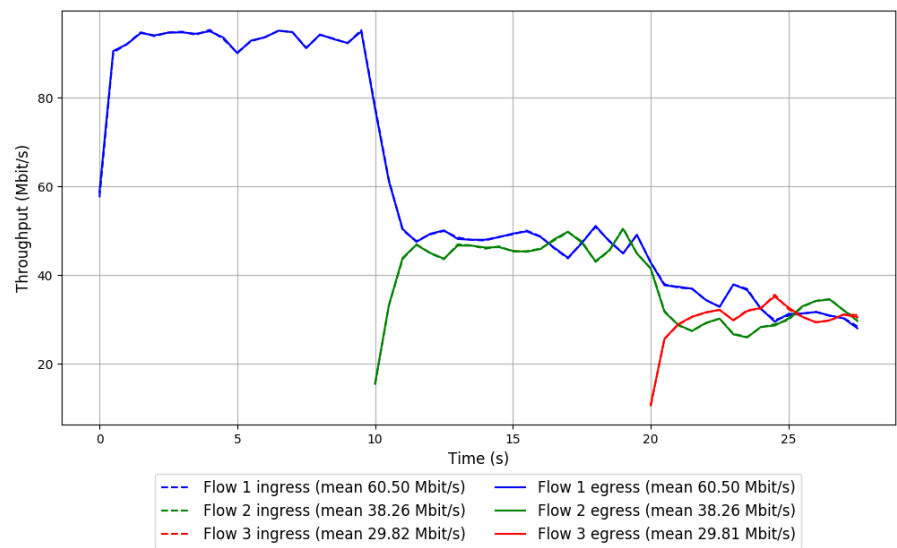


Run 4: Statistics of Copa

Start at: 2017-11-30 21:39:23  
End at: 2017-11-30 21:39:53  
Local clock offset: 3.676 ms  
Remote clock offset: -17.94 ms

# Below is generated by plot.py at 2017-12-01 00:14:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.49 Mbit/s  
95th percentile per-packet one-way delay: -4.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.50 Mbit/s  
95th percentile per-packet one-way delay: -4.540 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.26 Mbit/s  
95th percentile per-packet one-way delay: -3.775 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 29.81 Mbit/s  
95th percentile per-packet one-way delay: -2.791 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

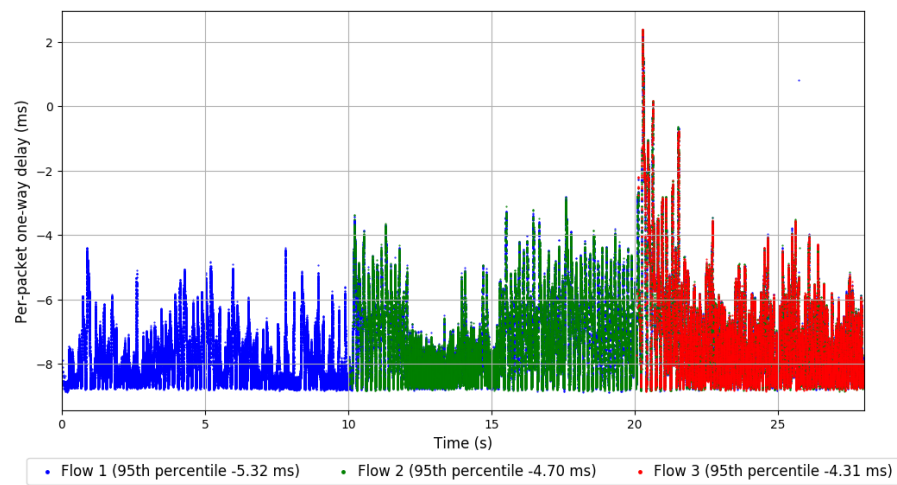
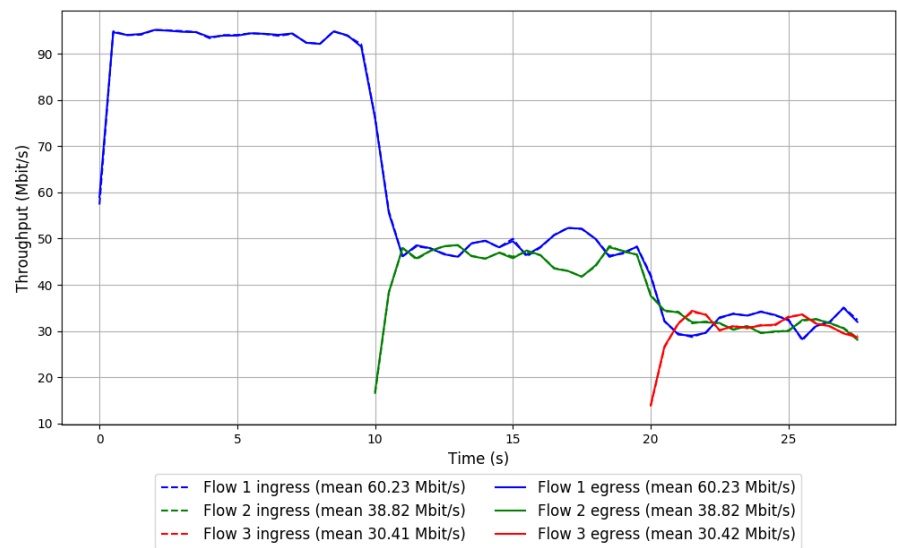


Run 5: Statistics of Copa

Start at: 2017-11-30 21:56:15  
End at: 2017-11-30 21:56:45  
Local clock offset: 4.112 ms  
Remote clock offset: -18.284 ms

# Below is generated by plot.py at 2017-12-01 00:14:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.77 Mbit/s  
95th percentile per-packet one-way delay: -5.054 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.23 Mbit/s  
95th percentile per-packet one-way delay: -5.317 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.82 Mbit/s  
95th percentile per-packet one-way delay: -4.701 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.42 Mbit/s  
95th percentile per-packet one-way delay: -4.312 ms  
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



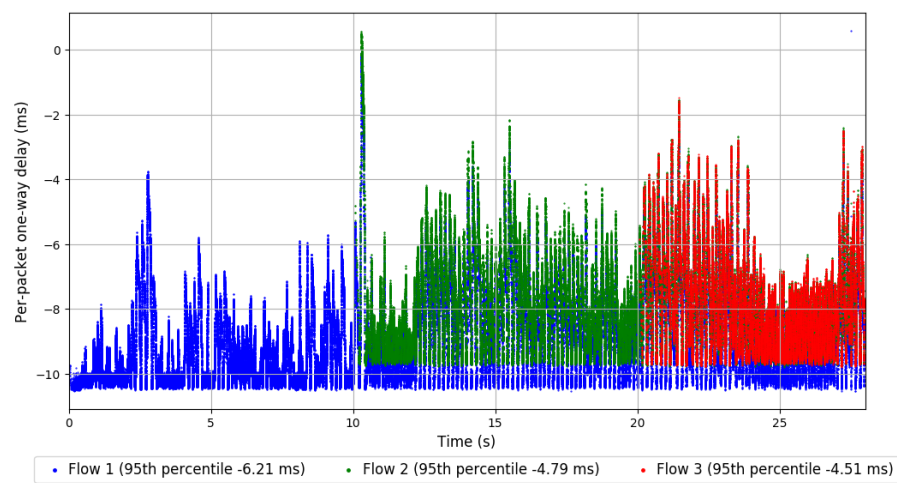
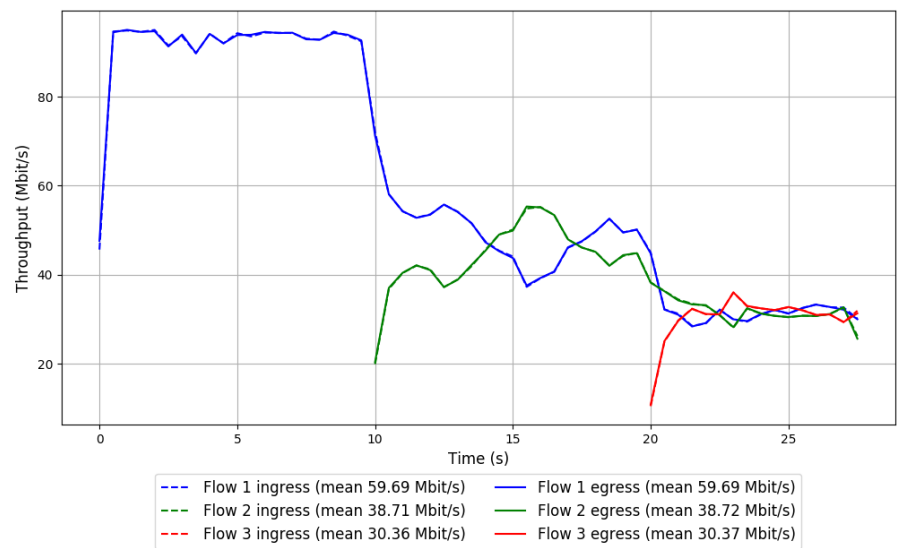
Run 6: Statistics of Copa

Start at: 2017-11-30 22:13:31  
End at: 2017-11-30 22:14:01  
Local clock offset: 4.17 ms  
Remote clock offset: -20.383 ms

# Below is generated by plot.py at 2017-12-01 00:14:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.14 Mbit/s  
95th percentile per-packet one-way delay: -5.448 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.69 Mbit/s  
95th percentile per-packet one-way delay: -6.211 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.72 Mbit/s  
95th percentile per-packet one-way delay: -4.786 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.37 Mbit/s  
95th percentile per-packet one-way delay: -4.515 ms  
Loss rate: 0.00%



Run 6: Report of Copa — Data Link

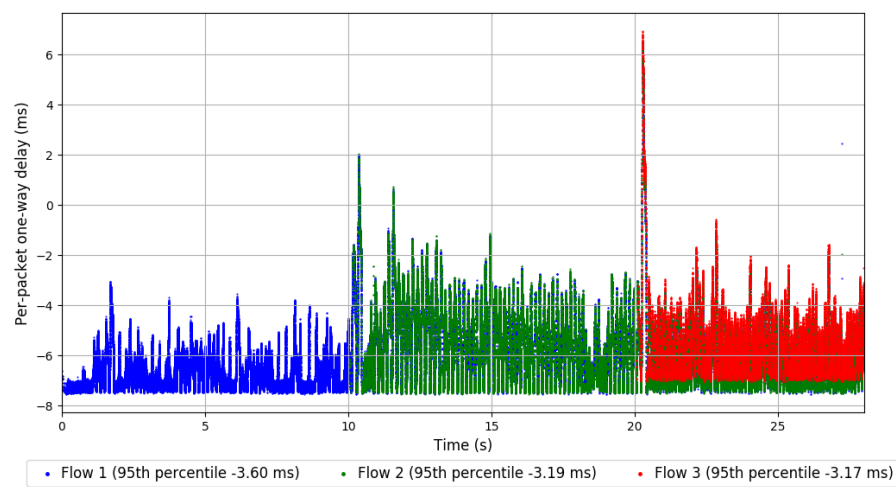
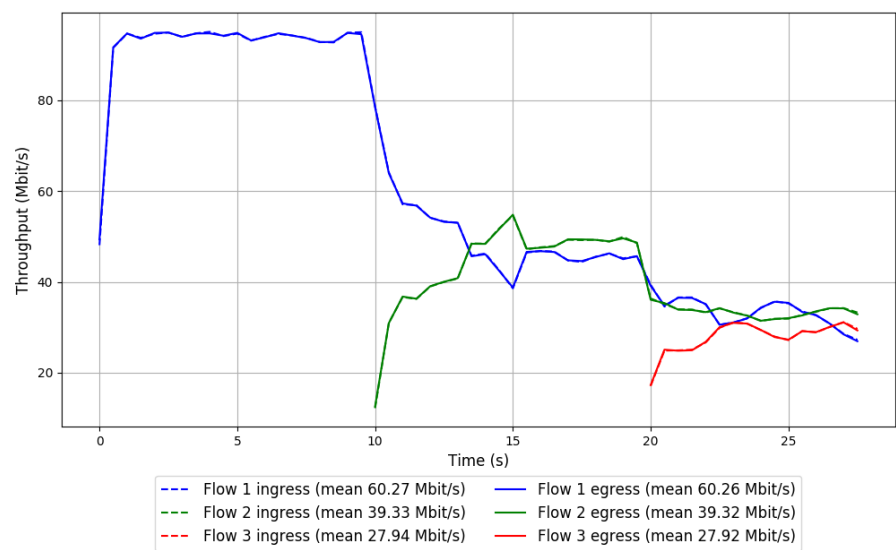


Run 7: Statistics of Copa

Start at: 2017-11-30 22:31:06  
End at: 2017-11-30 22:31:36  
Local clock offset: 3.609 ms  
Remote clock offset: -17.942 ms

# Below is generated by plot.py at 2017-12-01 00:15:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.44 Mbit/s  
95th percentile per-packet one-way delay: -3.419 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.26 Mbit/s  
95th percentile per-packet one-way delay: -3.600 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.32 Mbit/s  
95th percentile per-packet one-way delay: -3.186 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: -3.171 ms  
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

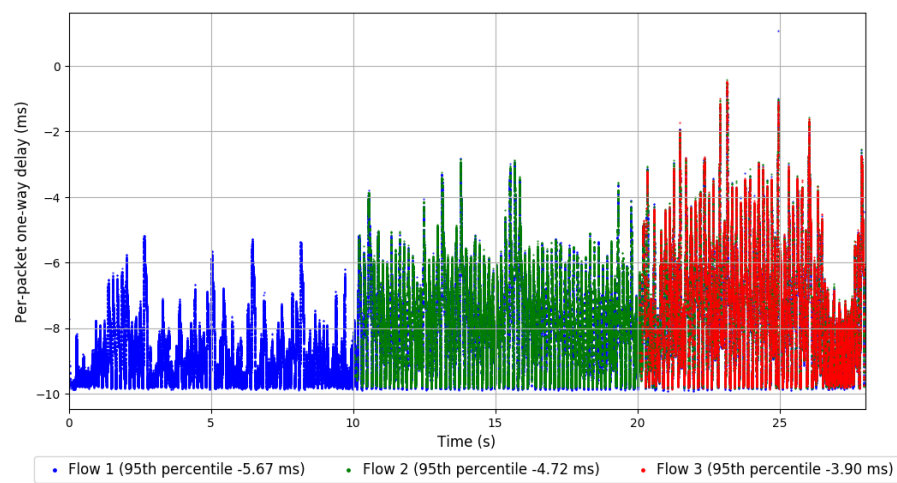
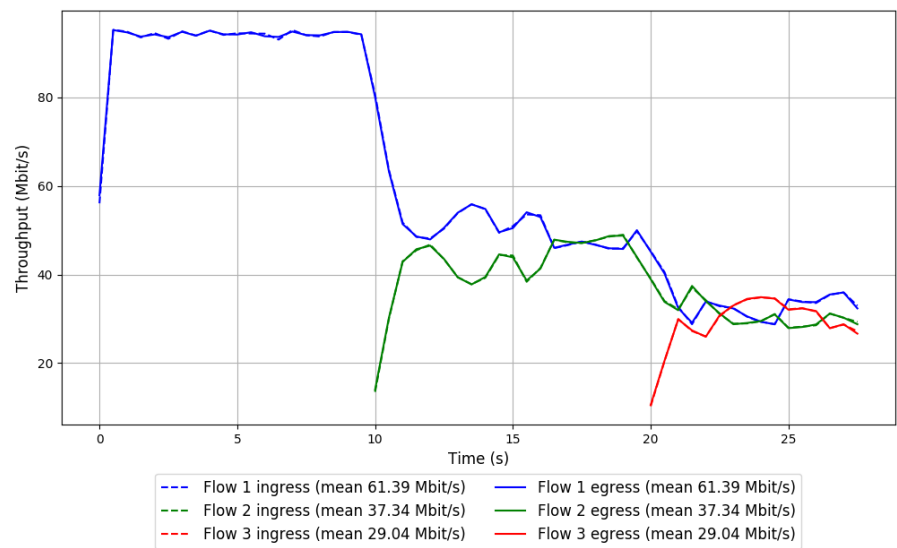


Run 8: Statistics of Copa

Start at: 2017-11-30 22:48:05  
End at: 2017-11-30 22:48:35  
Local clock offset: 4.284 ms  
Remote clock offset: -18.947 ms

# Below is generated by plot.py at 2017-12-01 00:15:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.59 Mbit/s  
95th percentile per-packet one-way delay: -5.109 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.39 Mbit/s  
95th percentile per-packet one-way delay: -5.666 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.34 Mbit/s  
95th percentile per-packet one-way delay: -4.716 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 29.04 Mbit/s  
95th percentile per-packet one-way delay: -3.901 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

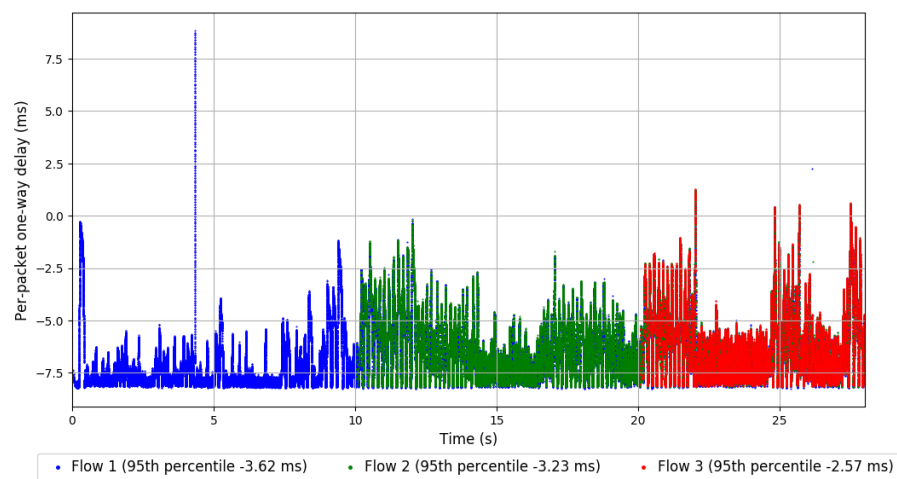
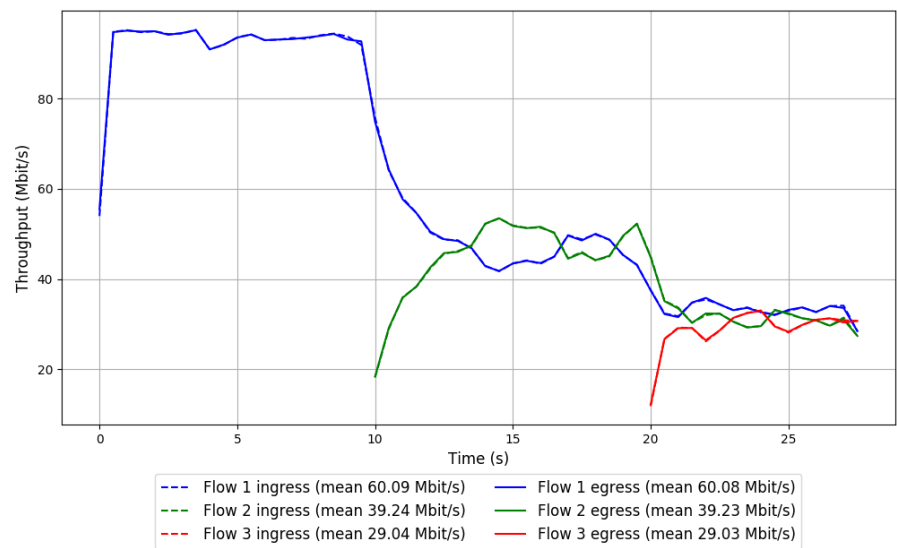


Run 9: Statistics of Copa

Start at: 2017-11-30 23:04:57  
End at: 2017-11-30 23:05:27  
Local clock offset: 2.303 ms  
Remote clock offset: -18.455 ms

# Below is generated by plot.py at 2017-12-01 00:16:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.50 Mbit/s  
95th percentile per-packet one-way delay: -3.365 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.08 Mbit/s  
95th percentile per-packet one-way delay: -3.620 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.23 Mbit/s  
95th percentile per-packet one-way delay: -3.232 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 29.03 Mbit/s  
95th percentile per-packet one-way delay: -2.566 ms  
Loss rate: 0.01%

Run 9: Report of Copa — Data Link



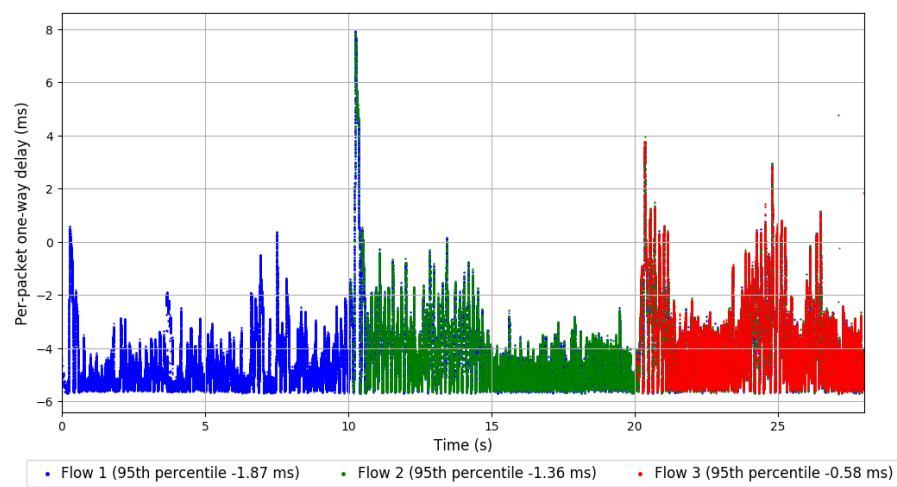
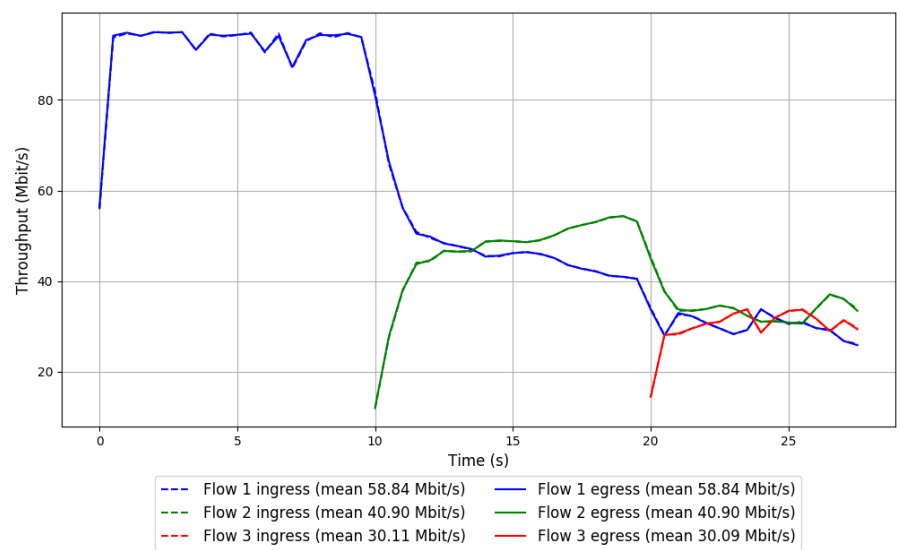
Run 10: Statistics of Copa

Start at: 2017-11-30 23:22:00  
End at: 2017-11-30 23:22:30  
Local clock offset: -1.933 ms  
Remote clock offset: -19.375 ms

# Below is generated by plot.py at 2017-12-01 00:16:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.61 Mbit/s  
95th percentile per-packet one-way delay: -1.514 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.84 Mbit/s  
95th percentile per-packet one-way delay: -1.868 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.90 Mbit/s  
95th percentile per-packet one-way delay: -1.365 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.09 Mbit/s  
95th percentile per-packet one-way delay: -0.579 ms  
Loss rate: 0.00%



Run 10: Report of Copa — Data Link

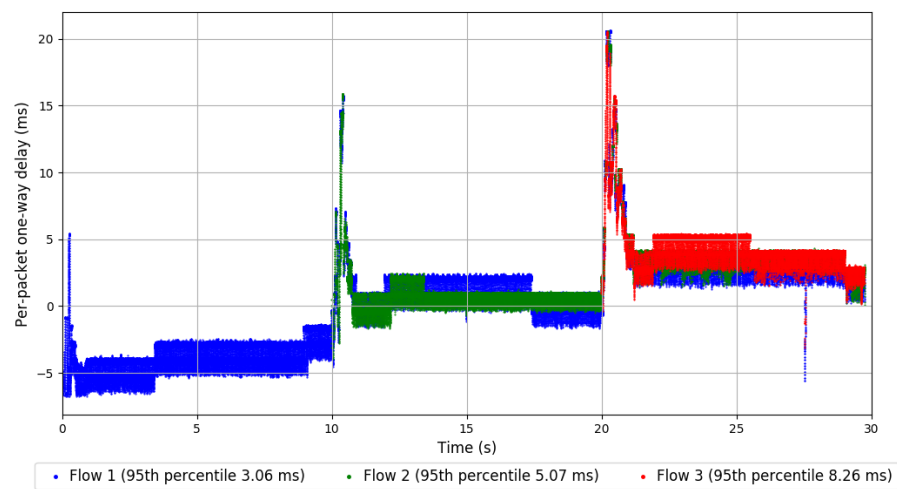
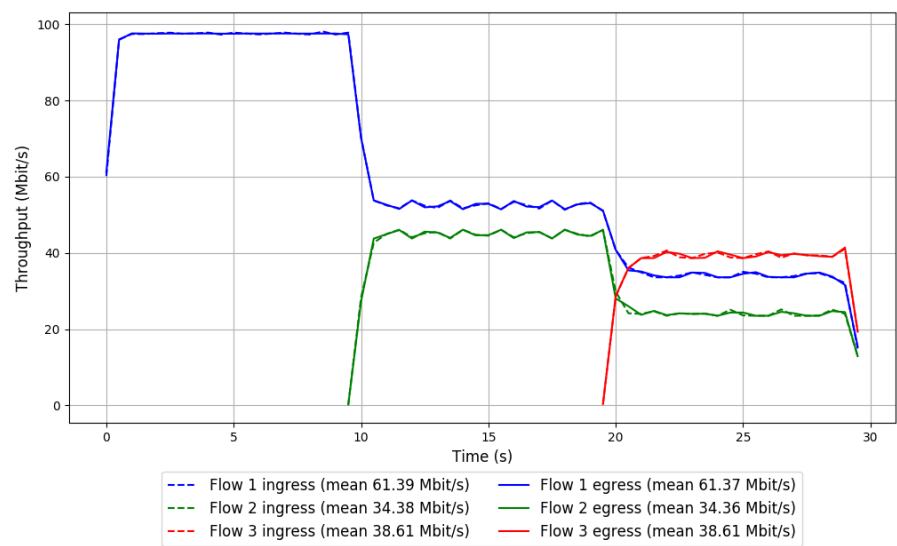


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 20:54:10
End at: 2017-11-30 20:54:40
Local clock offset: 1.682 ms
Remote clock offset: -17.247 ms

# Below is generated by plot.py at 2017-12-01 00:16:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 5.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 3.057 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 5.073 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 8.261 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link

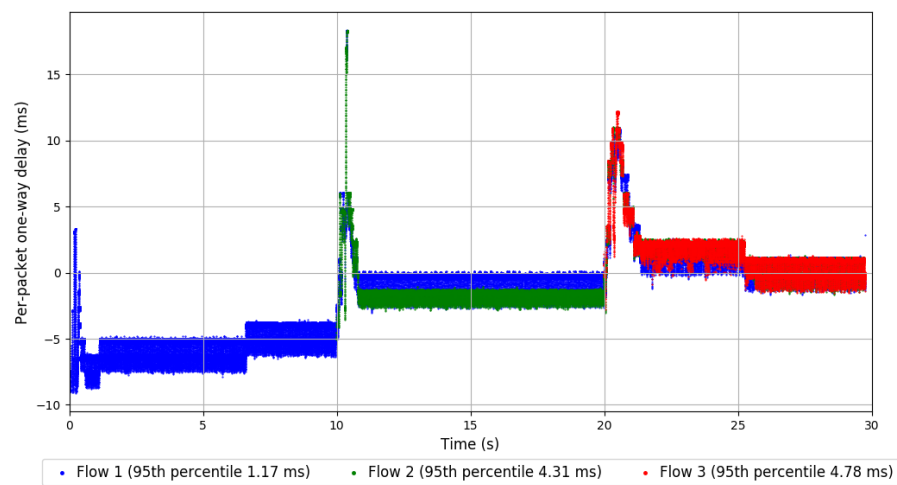
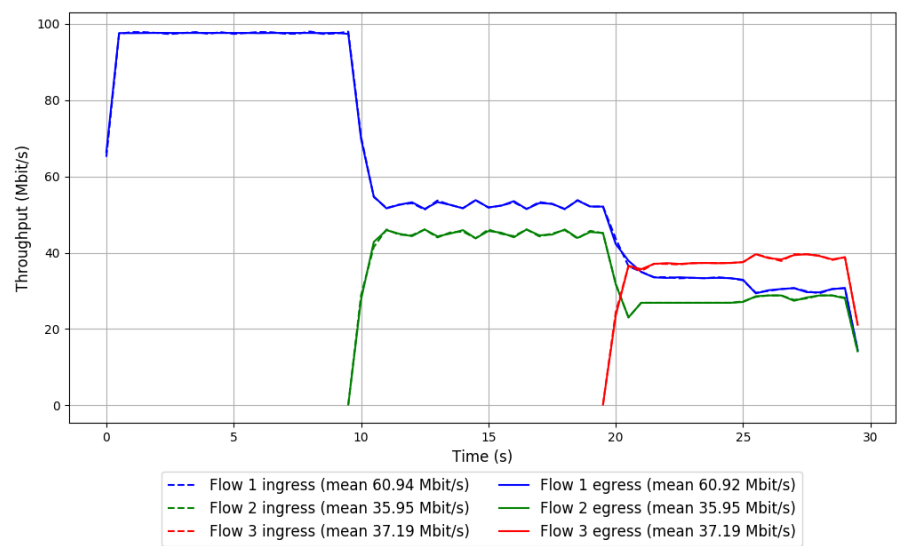


```
Run 2: Statistics of Indigo

Start at: 2017-11-30 21:10:55
End at: 2017-11-30 21:11:25
Local clock offset: 3.093 ms
Remote clock offset: -18.731 ms

# Below is generated by plot.py at 2017-12-01 00:16:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.99 Mbit/s
95th percentile per-packet one-way delay: 2.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.92 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.95 Mbit/s
95th percentile per-packet one-way delay: 4.313 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.19 Mbit/s
95th percentile per-packet one-way delay: 4.784 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

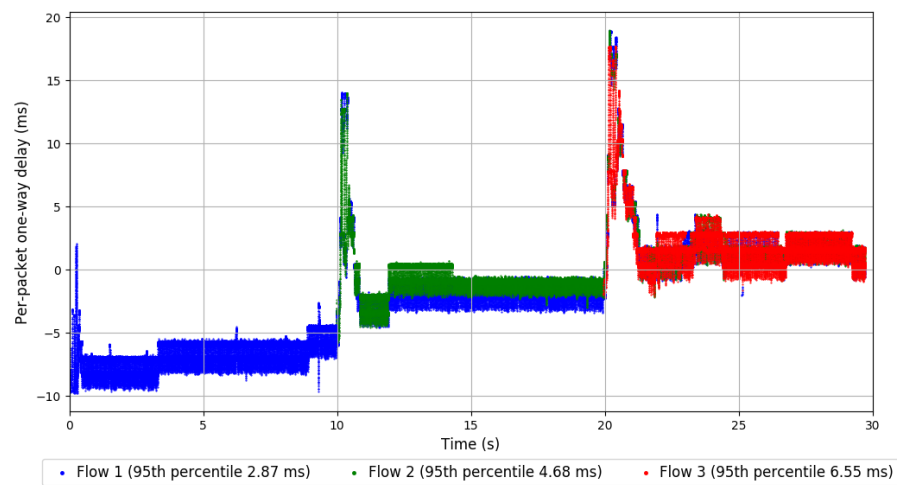
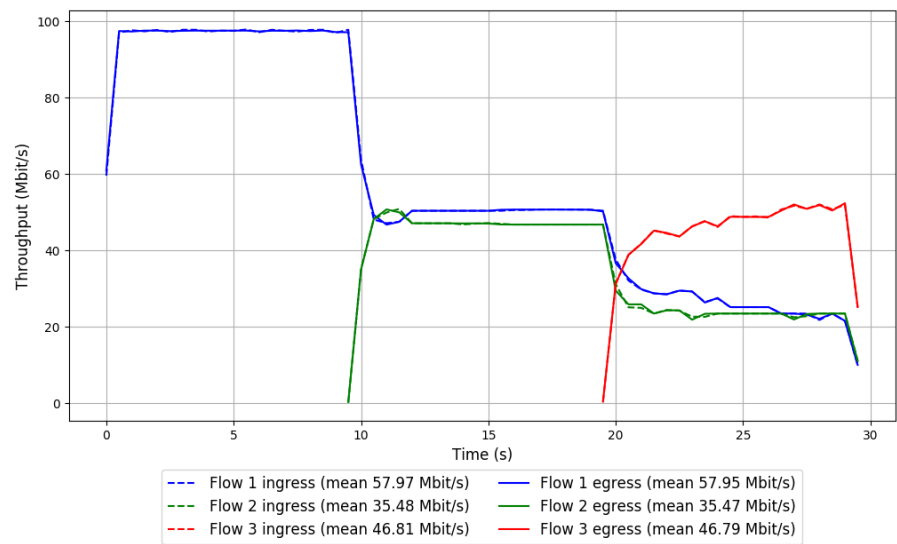


Run 3: Statistics of Indigo

Start at: 2017-11-30 21:27:27  
End at: 2017-11-30 21:27:57  
Local clock offset: 5.625 ms  
Remote clock offset: -17.156 ms

# Below is generated by plot.py at 2017-12-01 00:16:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.89 Mbit/s  
95th percentile per-packet one-way delay: 3.887 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.95 Mbit/s  
95th percentile per-packet one-way delay: 2.873 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.47 Mbit/s  
95th percentile per-packet one-way delay: 4.683 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 46.79 Mbit/s  
95th percentile per-packet one-way delay: 6.553 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



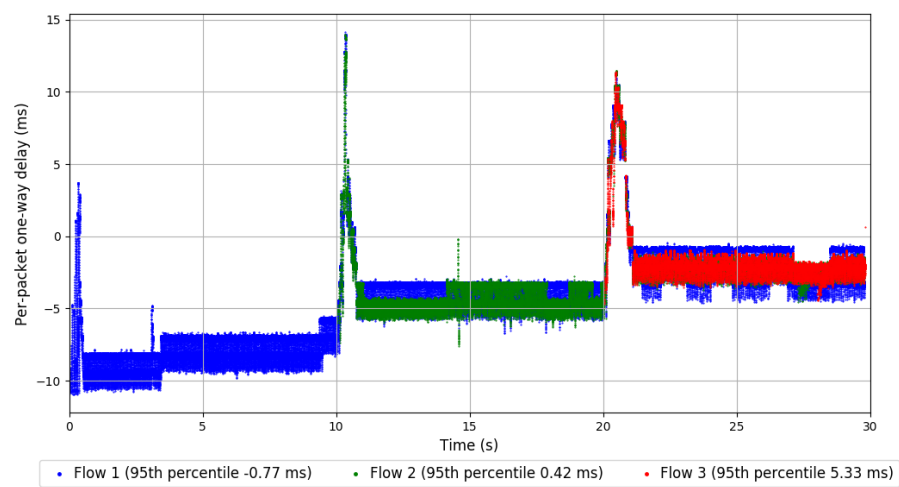
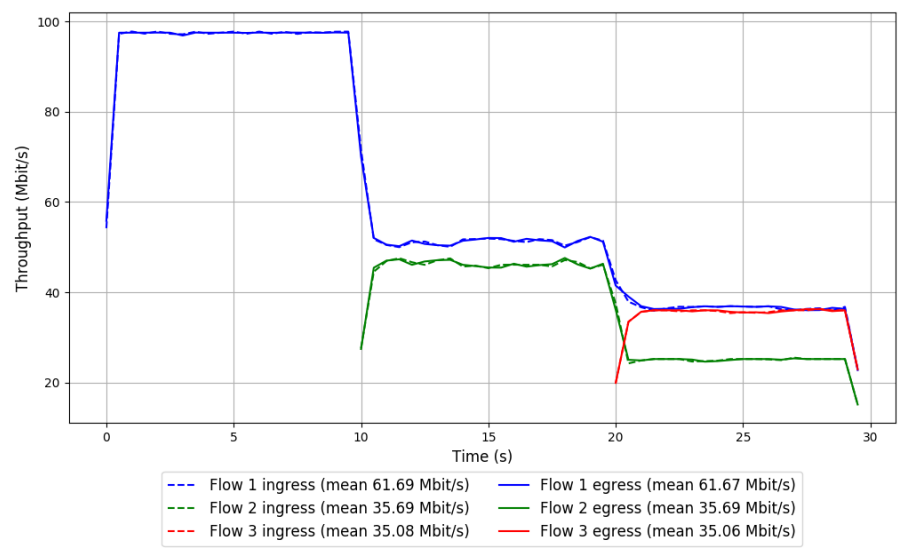
Run 4: Statistics of Indigo

Start at: 2017-11-30 21:44:13  
End at: 2017-11-30 21:44:43  
Local clock offset: 4.866 ms  
Remote clock offset: -19.447 ms

# Below is generated by plot.py at 2017-12-01 00:16:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.80 Mbit/s  
95th percentile per-packet one-way delay: -0.740 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.67 Mbit/s  
95th percentile per-packet one-way delay: -0.771 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.69 Mbit/s  
95th percentile per-packet one-way delay: 0.425 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 35.06 Mbit/s  
95th percentile per-packet one-way delay: 5.326 ms  
Loss rate: 0.00%



Run 4: Report of Indigo — Data Link

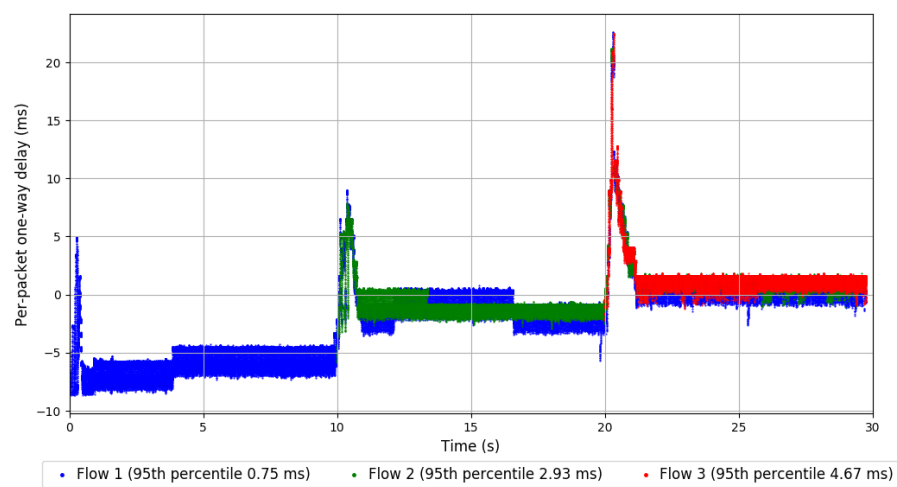
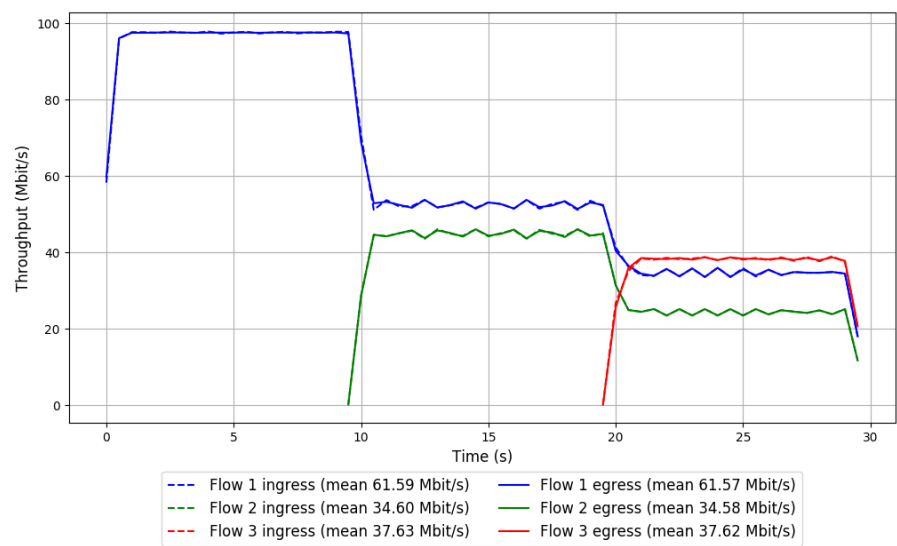


Run 5: Statistics of Indigo

Start at: 2017-11-30 22:01:04  
End at: 2017-11-30 22:01:34  
Local clock offset: 5.171 ms  
Remote clock offset: -16.889 ms

# Below is generated by plot.py at 2017-12-01 00:16:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.85 Mbit/s  
95th percentile per-packet one-way delay: 2.515 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.57 Mbit/s  
95th percentile per-packet one-way delay: 0.750 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 34.58 Mbit/s  
95th percentile per-packet one-way delay: 2.930 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 37.62 Mbit/s  
95th percentile per-packet one-way delay: 4.670 ms  
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

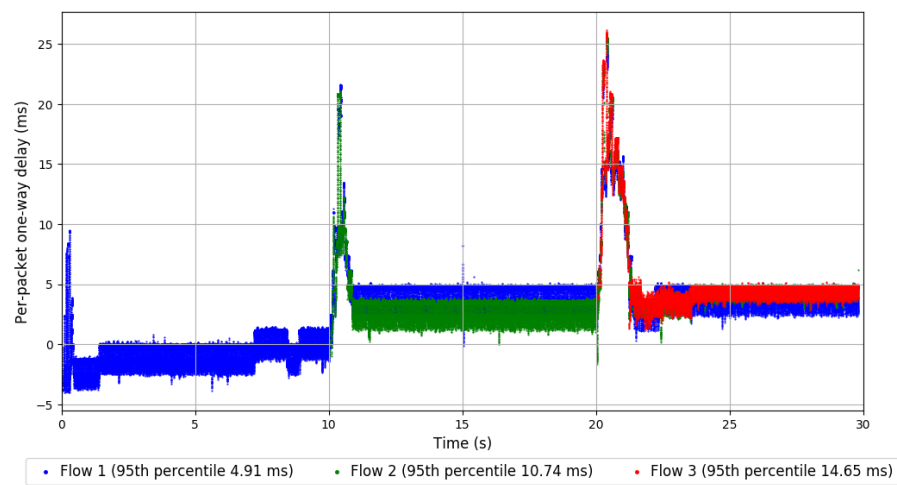
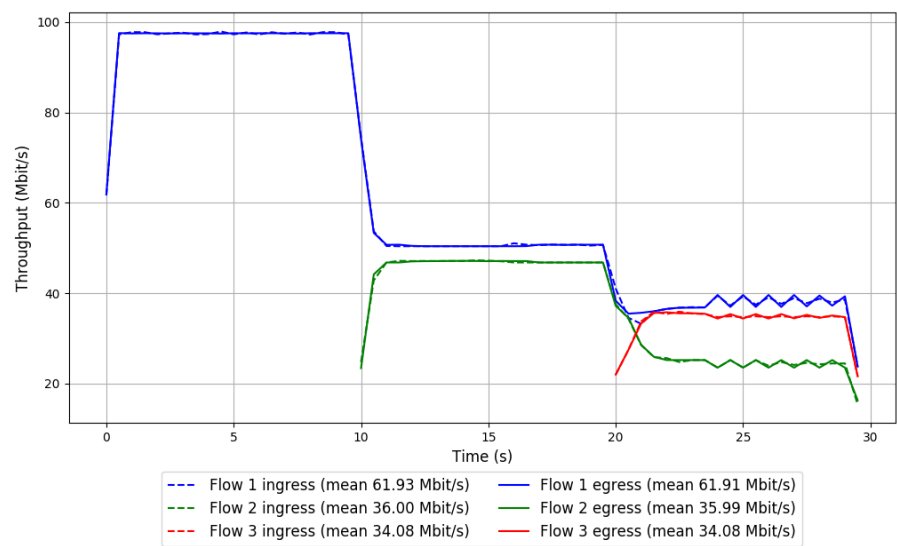


Run 6: Statistics of Indigo

Start at: 2017-11-30 22:18:38  
End at: 2017-11-30 22:19:08  
Local clock offset: 1.527 ms  
Remote clock offset: -17.256 ms

# Below is generated by plot.py at 2017-12-01 00:16:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.92 Mbit/s  
95th percentile per-packet one-way delay: 7.325 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.91 Mbit/s  
95th percentile per-packet one-way delay: 4.911 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.99 Mbit/s  
95th percentile per-packet one-way delay: 10.741 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 34.08 Mbit/s  
95th percentile per-packet one-way delay: 14.652 ms  
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

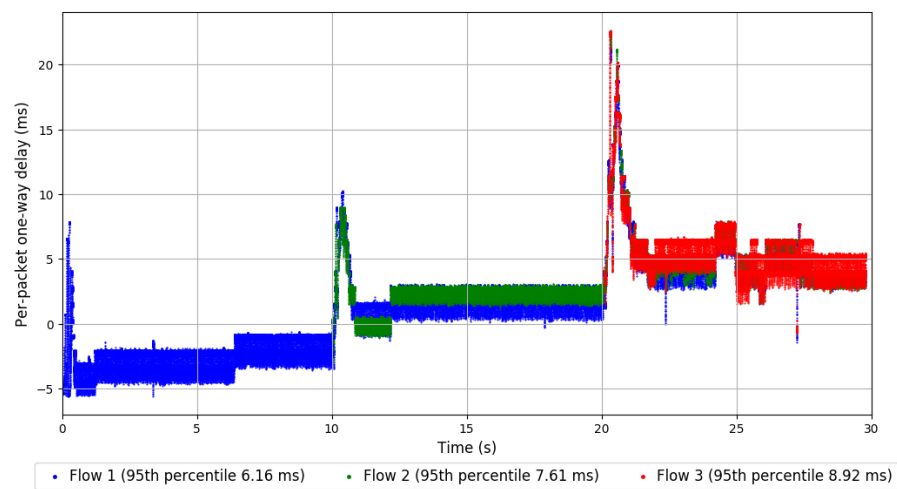
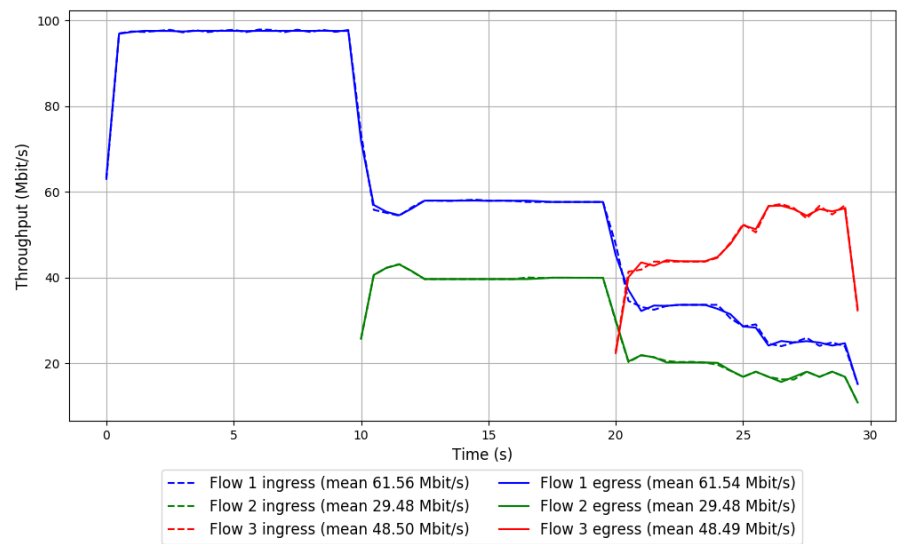


Run 7: Statistics of Indigo

Start at: 2017-11-30 22:35:56  
End at: 2017-11-30 22:36:26  
Local clock offset: 2.349 ms  
Remote clock offset: -17.082 ms

# Below is generated by plot.py at 2017-12-01 00:16:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.93 Mbit/s  
95th percentile per-packet one-way delay: 6.529 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.54 Mbit/s  
95th percentile per-packet one-way delay: 6.160 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.48 Mbit/s  
95th percentile per-packet one-way delay: 7.610 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 48.49 Mbit/s  
95th percentile per-packet one-way delay: 8.923 ms  
Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



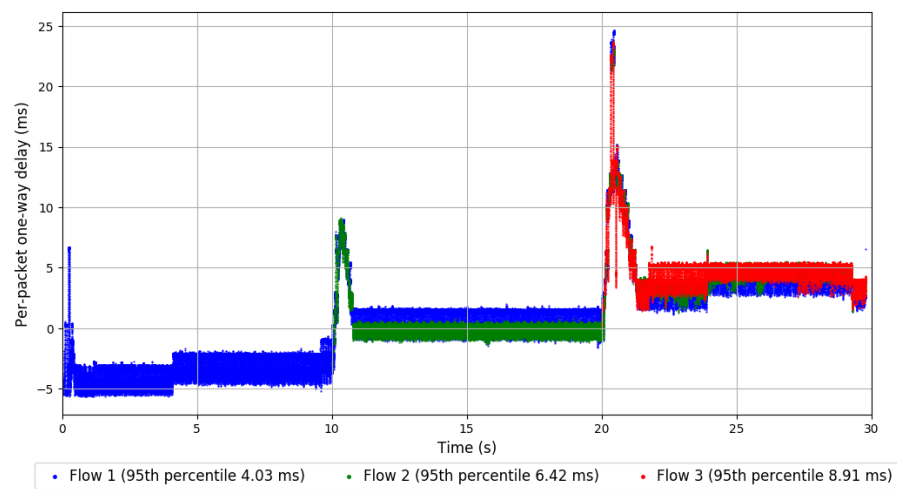
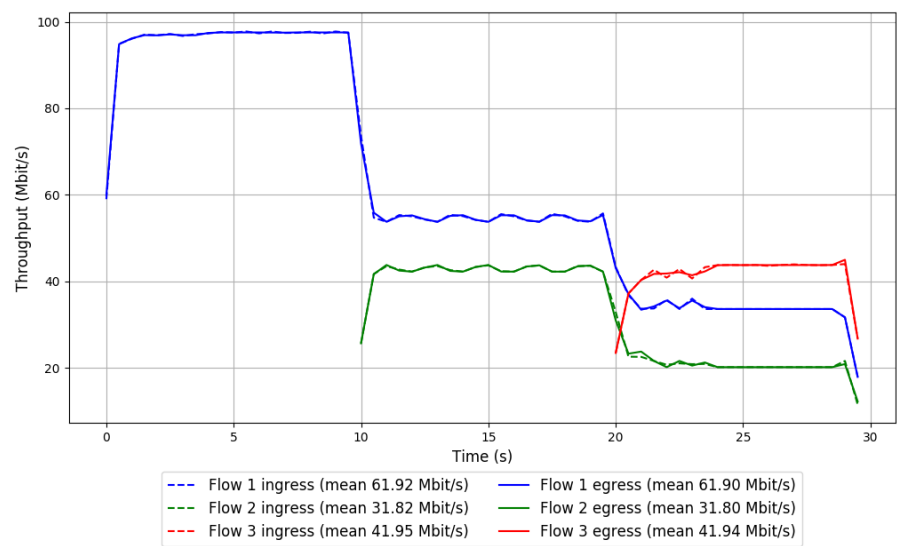
Run 8: Statistics of Indigo

Start at: 2017-11-30 22:52:52  
End at: 2017-11-30 22:53:22  
Local clock offset: -0.826 ms  
Remote clock offset: -19.514 ms

# Below is generated by plot.py at 2017-12-01 00:17:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.76 Mbit/s  
95th percentile per-packet one-way delay: 5.275 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.90 Mbit/s  
95th percentile per-packet one-way delay: 4.029 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.80 Mbit/s  
95th percentile per-packet one-way delay: 6.423 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.94 Mbit/s  
95th percentile per-packet one-way delay: 8.908 ms  
Loss rate: 0.00%



Run 8: Report of Indigo — Data Link

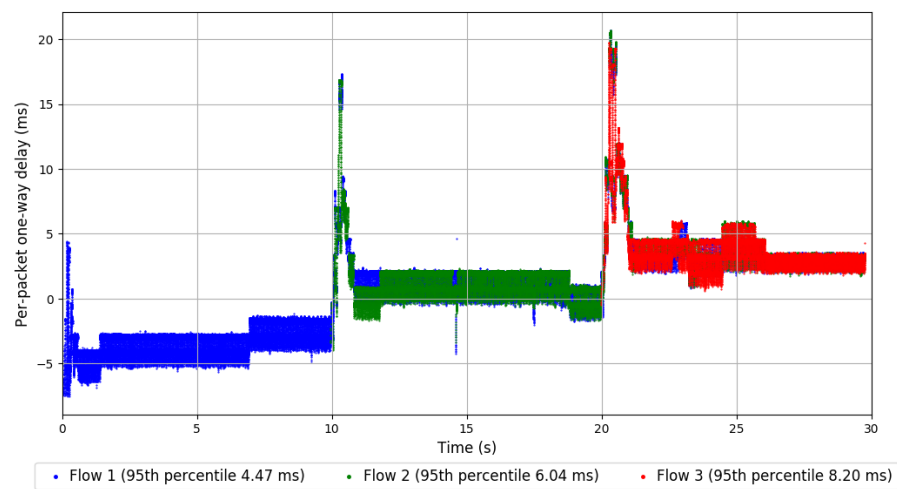
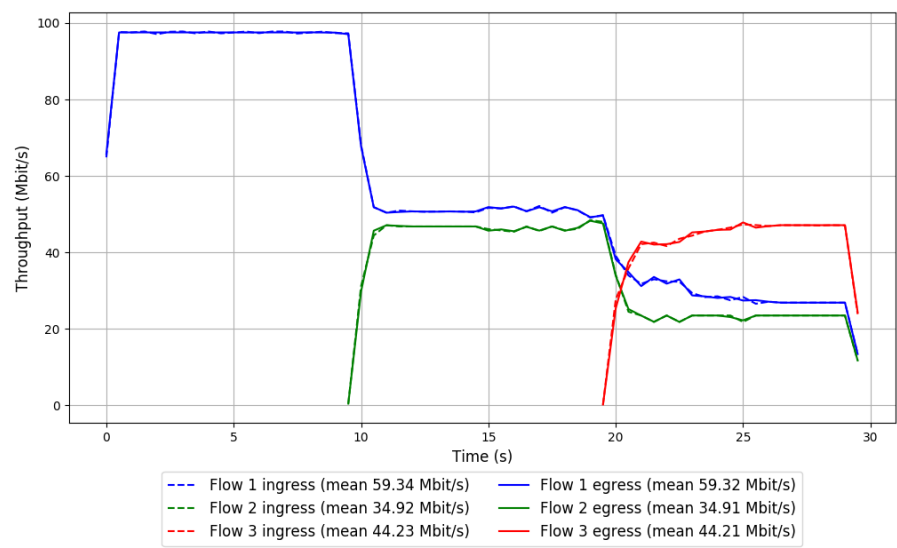


Run 9: Statistics of Indigo

Start at: 2017-11-30 23:09:42  
End at: 2017-11-30 23:10:12  
Local clock offset: 0.625 ms  
Remote clock offset: -19.299 ms

# Below is generated by plot.py at 2017-12-01 00:17:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.99 Mbit/s  
95th percentile per-packet one-way delay: 5.447 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.32 Mbit/s  
95th percentile per-packet one-way delay: 4.468 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 34.91 Mbit/s  
95th percentile per-packet one-way delay: 6.037 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 44.21 Mbit/s  
95th percentile per-packet one-way delay: 8.199 ms  
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

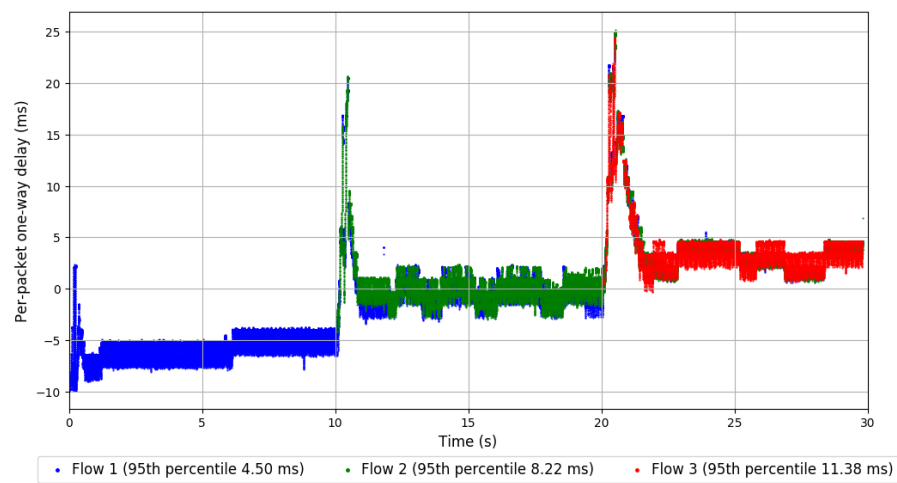
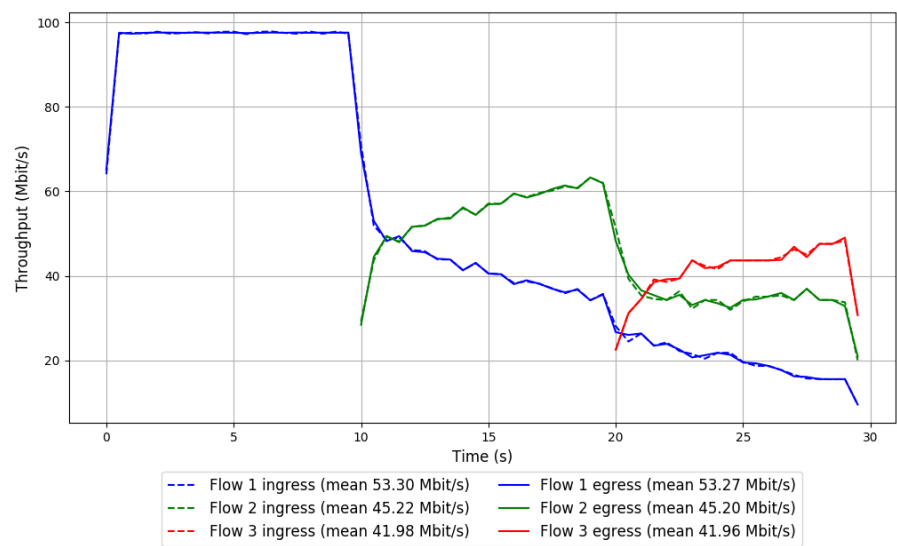


Run 10: Statistics of Indigo

Start at: 2017-11-30 23:26:51  
End at: 2017-11-30 23:27:21  
Local clock offset: 1.504 ms  
Remote clock offset: -20.058 ms

# Below is generated by plot.py at 2017-12-01 00:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.96 Mbit/s  
95th percentile per-packet one-way delay: 5.282 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 53.27 Mbit/s  
95th percentile per-packet one-way delay: 4.504 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 45.20 Mbit/s  
95th percentile per-packet one-way delay: 8.221 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.96 Mbit/s  
95th percentile per-packet one-way delay: 11.385 ms  
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

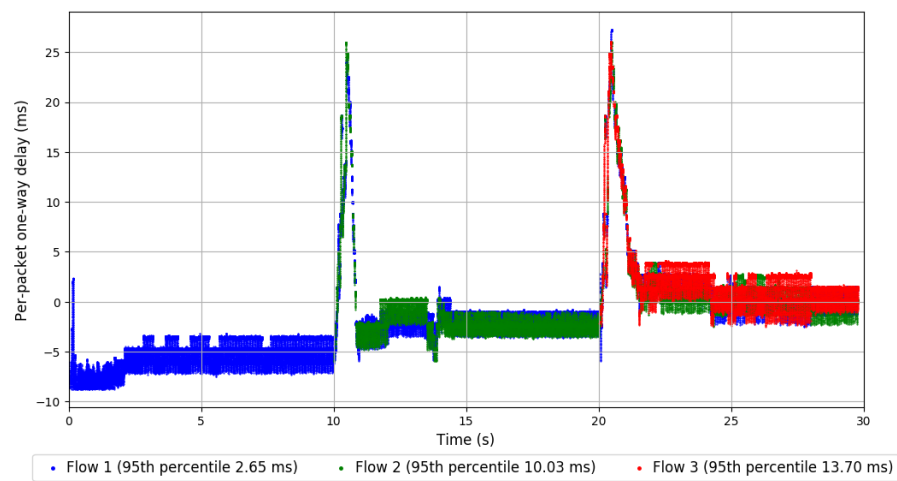
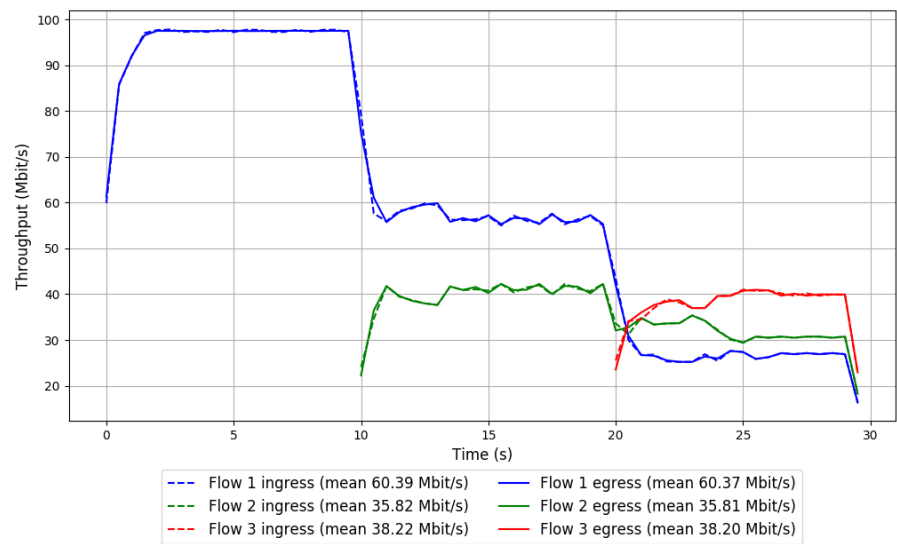


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 20:50:43
End at: 2017-11-30 20:51:13
Local clock offset: 2.871 ms
Remote clock offset: -17.944 ms

# Below is generated by plot.py at 2017-12-01 00:17:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 5.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 2.647 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 10.034 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 13.703 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-calib — Data Link



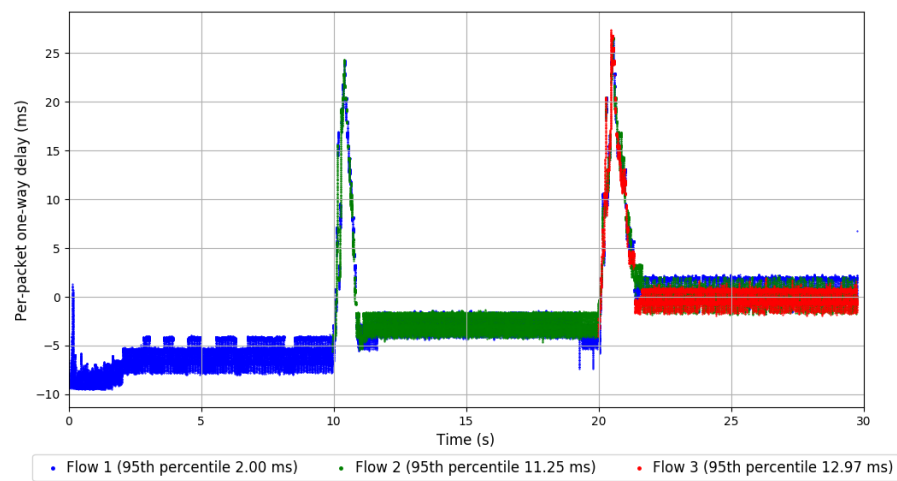
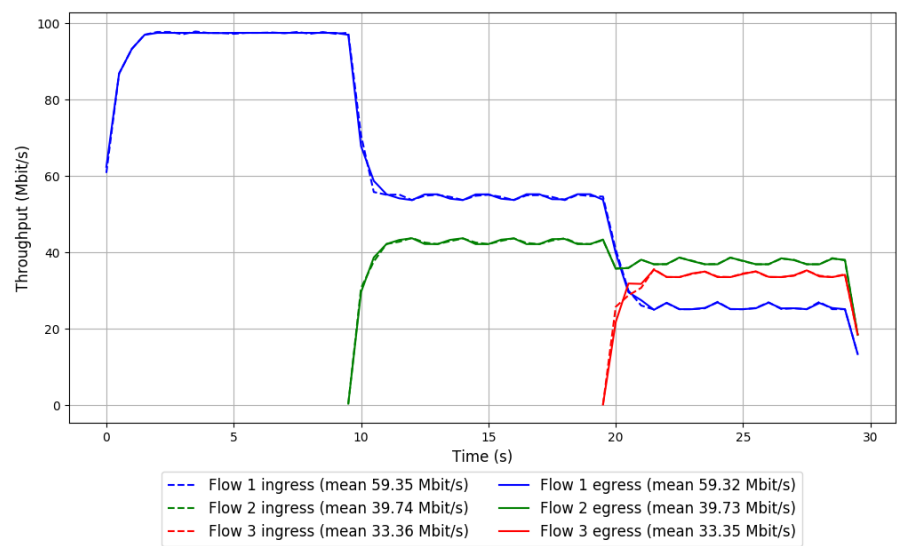
```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 21:07:28
End at: 2017-11-30 21:07:58
Local clock offset: 4.758 ms
Remote clock offset: -17.21 ms

# Below is generated by plot.py at 2017-12-01 00:17:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 6.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 2.003 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 11.248 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.35 Mbit/s
95th percentile per-packet one-way delay: 12.968 ms
Loss rate: 0.00%
```



Run 2: Report of Indigo-calib — Data Link

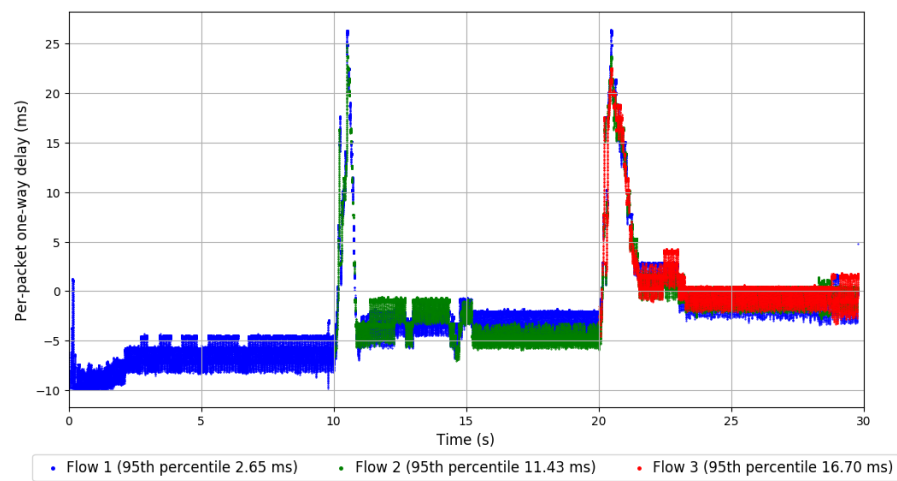
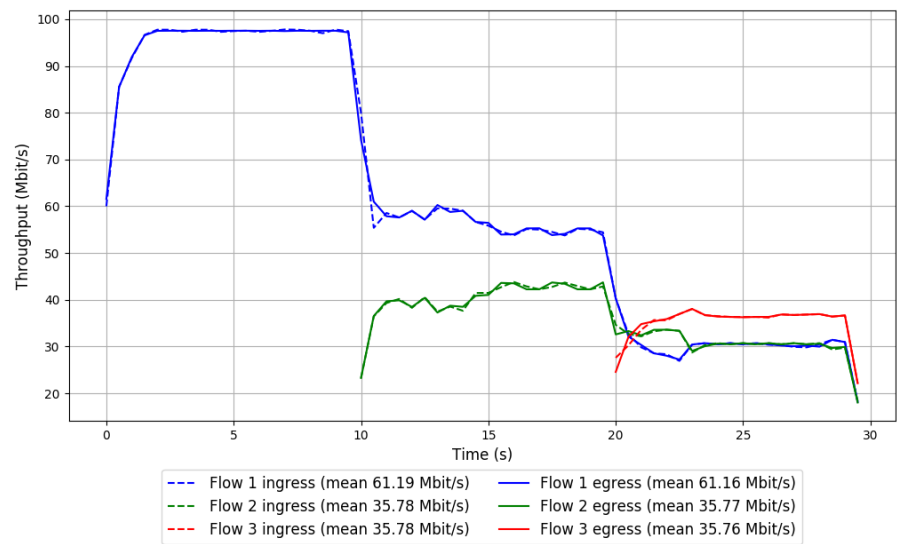


Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 21:23:58  
End at: 2017-11-30 21:24:28  
Local clock offset: 5.045 ms  
Remote clock offset: -17.572 ms

# Below is generated by plot.py at 2017-12-01 00:18:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.58 Mbit/s  
95th percentile per-packet one-way delay: 6.568 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.16 Mbit/s  
95th percentile per-packet one-way delay: 2.651 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.77 Mbit/s  
95th percentile per-packet one-way delay: 11.431 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 35.76 Mbit/s  
95th percentile per-packet one-way delay: 16.696 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link

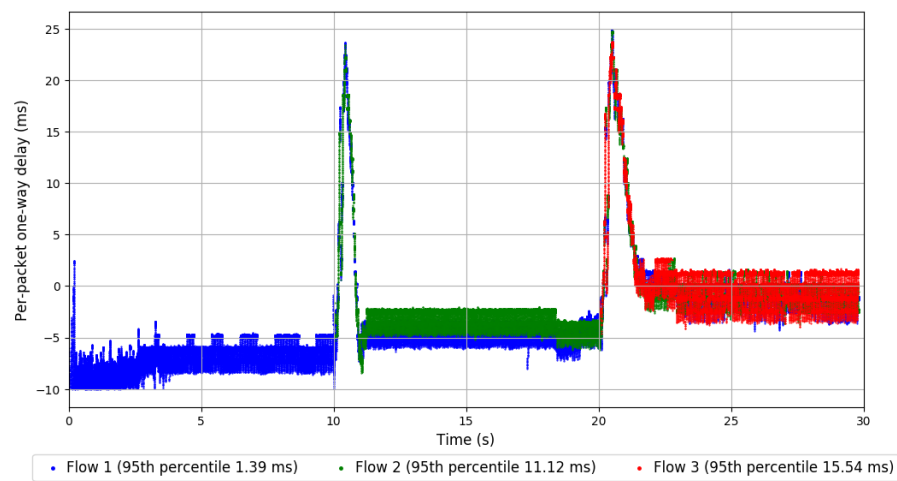
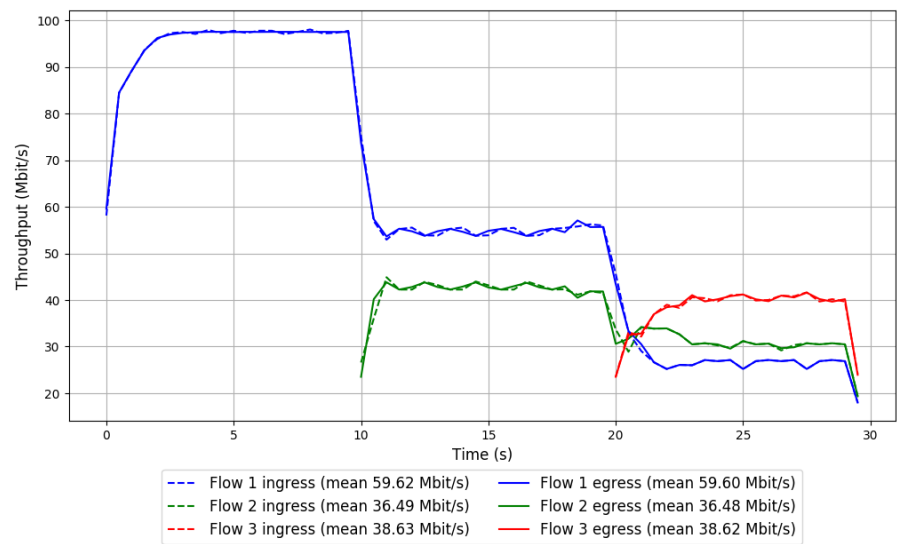


Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 21:40:43  
End at: 2017-11-30 21:41:13  
Local clock offset: 5.317 ms  
Remote clock offset: -17.951 ms

# Below is generated by plot.py at 2017-12-01 00:18:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.41 Mbit/s  
95th percentile per-packet one-way delay: 5.298 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.60 Mbit/s  
95th percentile per-packet one-way delay: 1.387 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.48 Mbit/s  
95th percentile per-packet one-way delay: 11.125 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 38.62 Mbit/s  
95th percentile per-packet one-way delay: 15.538 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

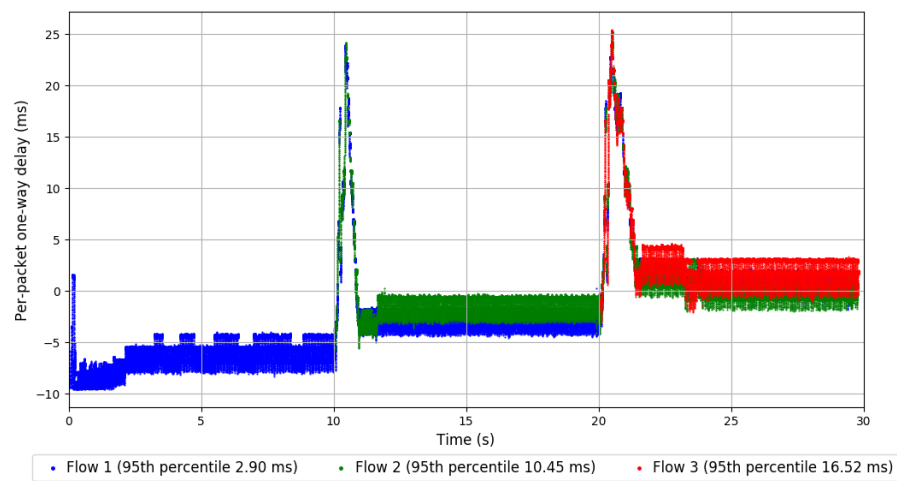
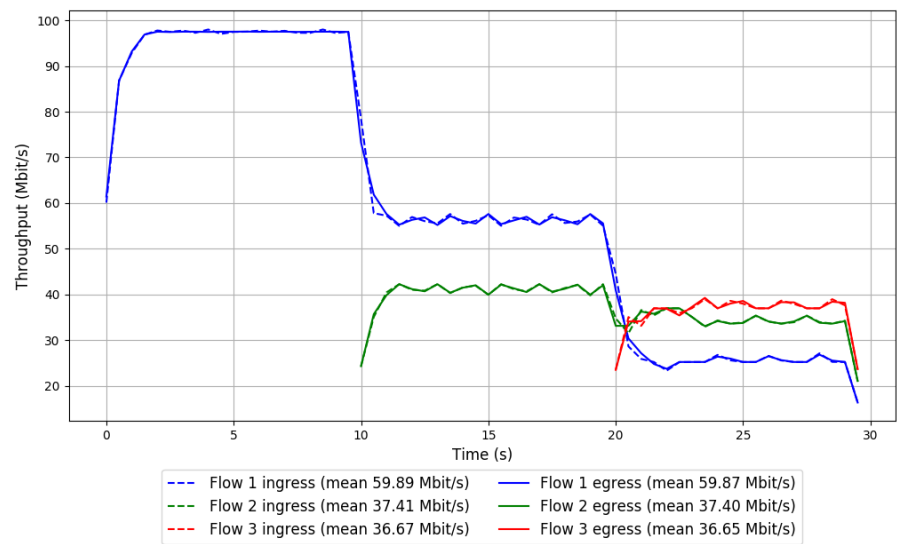


Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 21:57:33  
End at: 2017-11-30 21:58:03  
Local clock offset: 5.631 ms  
Remote clock offset: -17.45 ms

# Below is generated by plot.py at 2017-12-01 00:18:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.65 Mbit/s  
95th percentile per-packet one-way delay: 6.749 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.87 Mbit/s  
95th percentile per-packet one-way delay: 2.896 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.40 Mbit/s  
95th percentile per-packet one-way delay: 10.448 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 36.65 Mbit/s  
95th percentile per-packet one-way delay: 16.523 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



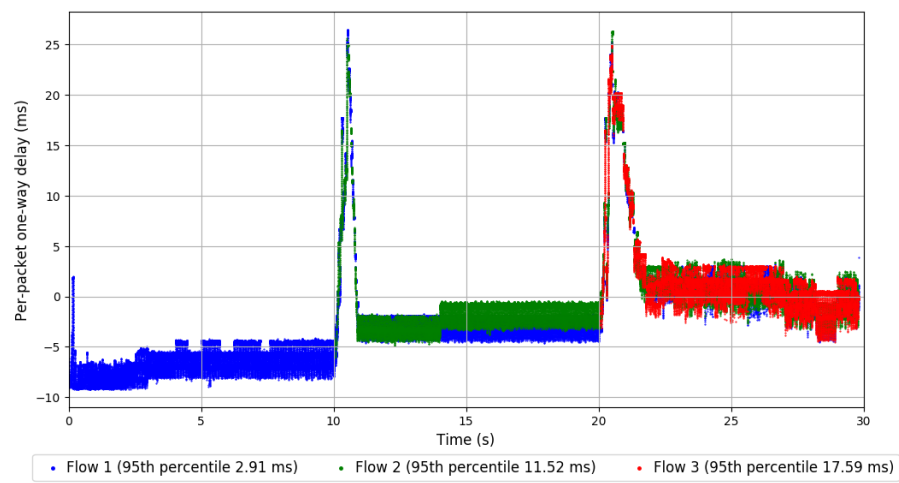
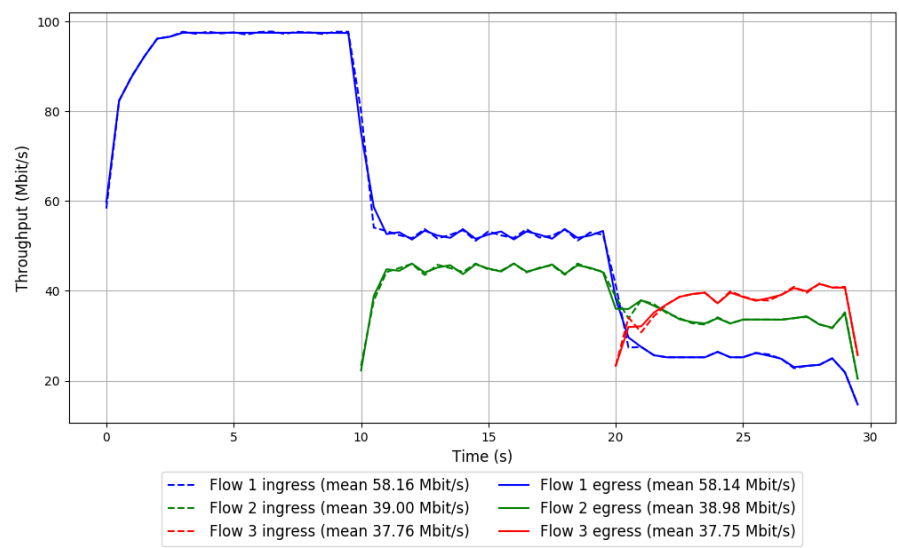
Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 22:14:58  
End at: 2017-11-30 22:15:28  
Local clock offset: 4.836 ms  
Remote clock offset: -18.388 ms

# Below is generated by plot.py at 2017-12-01 00:18:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.33 Mbit/s  
95th percentile per-packet one-way delay: 7.874 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 58.14 Mbit/s  
95th percentile per-packet one-way delay: 2.908 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.98 Mbit/s  
95th percentile per-packet one-way delay: 11.515 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 37.75 Mbit/s  
95th percentile per-packet one-way delay: 17.585 ms  
Loss rate: 0.00%



Run 6: Report of Indigo-calib — Data Link

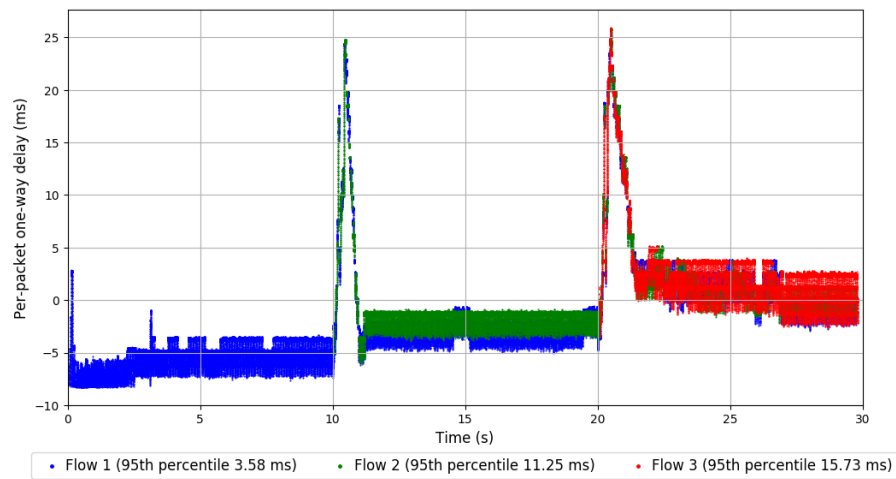
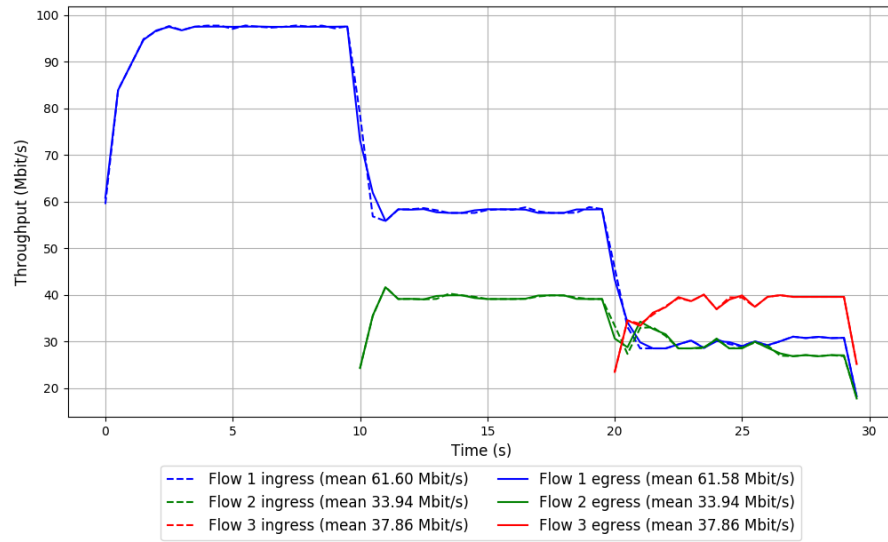


Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 22:32:27  
End at: 2017-11-30 22:32:57  
Local clock offset: 4.113 ms  
Remote clock offset: -18.217 ms

# Below is generated by plot.py at 2017-12-01 00:18:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.46 Mbit/s  
95th percentile per-packet one-way delay: 7.595 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.58 Mbit/s  
95th percentile per-packet one-way delay: 3.582 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 33.94 Mbit/s  
95th percentile per-packet one-way delay: 11.253 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 37.86 Mbit/s  
95th percentile per-packet one-way delay: 15.726 ms  
Loss rate: 0.00%

## Run 7: Report of Indigo-calib — Data Link

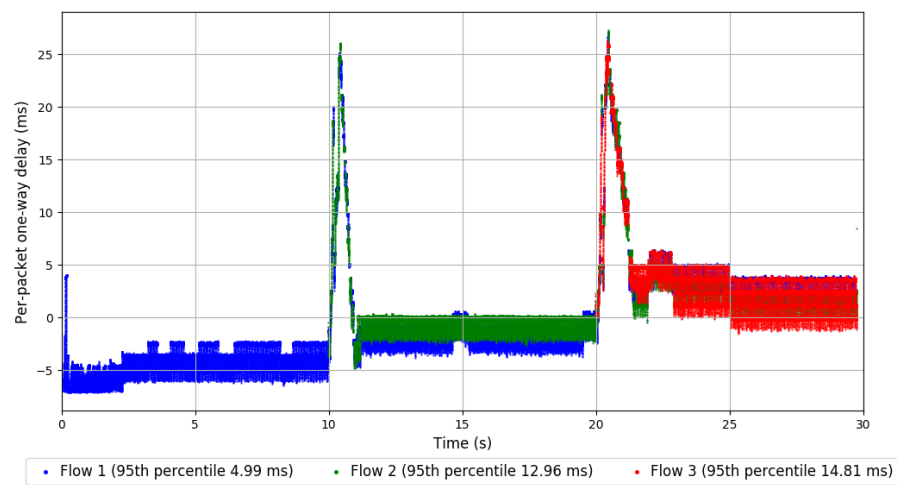
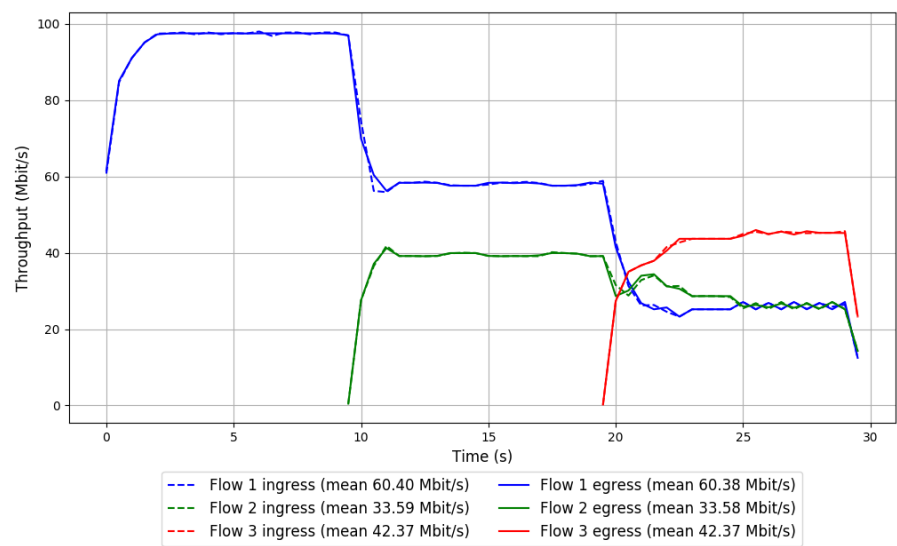


Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 22:49:22  
End at: 2017-11-30 22:49:52  
Local clock offset: 2.591 ms  
Remote clock offset: -17.796 ms

# Below is generated by plot.py at 2017-12-01 00:18:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.54 Mbit/s  
95th percentile per-packet one-way delay: 9.599 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.38 Mbit/s  
95th percentile per-packet one-way delay: 4.994 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 33.58 Mbit/s  
95th percentile per-packet one-way delay: 12.956 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 42.37 Mbit/s  
95th percentile per-packet one-way delay: 14.812 ms  
Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

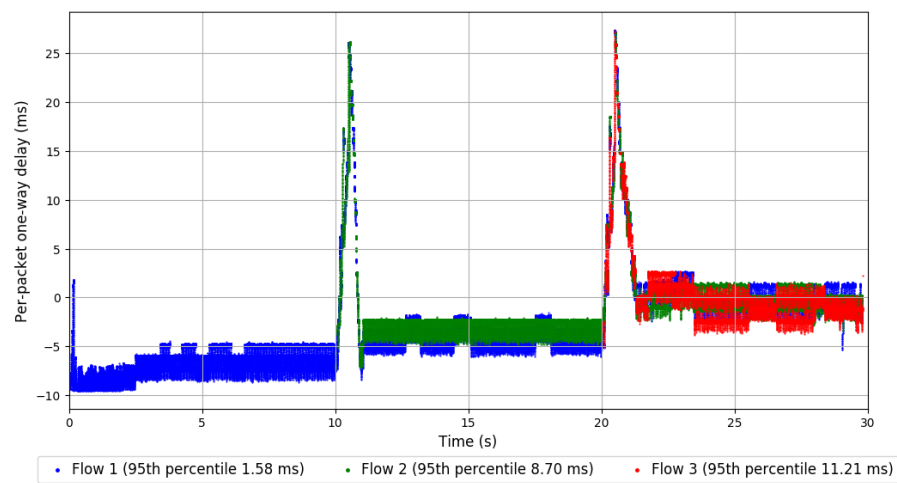
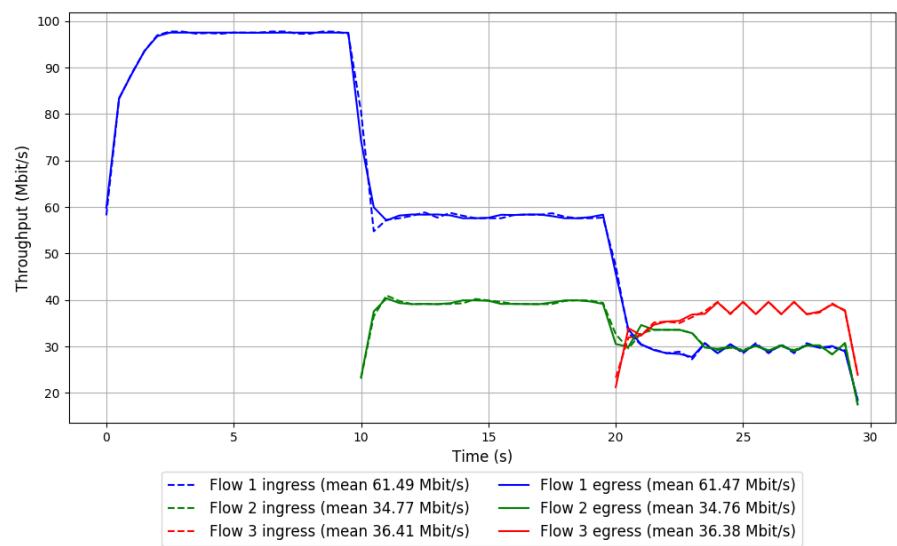


Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 23:06:13  
End at: 2017-11-30 23:06:43  
Local clock offset: 2.527 ms  
Remote clock offset: -19.472 ms

# Below is generated by plot.py at 2017-12-01 00:18:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.42 Mbit/s  
95th percentile per-packet one-way delay: 5.009 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.47 Mbit/s  
95th percentile per-packet one-way delay: 1.583 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 34.76 Mbit/s  
95th percentile per-packet one-way delay: 8.696 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 36.38 Mbit/s  
95th percentile per-packet one-way delay: 11.214 ms  
Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 23:23:17  
End at: 2017-11-30 23:23:47  
Local clock offset: 2.097 ms  
Remote clock offset: -18.652 ms

# Below is generated by plot.py at 2017-12-01 00:18:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.51 Mbit/s  
95th percentile per-packet one-way delay: 9.019 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.95 Mbit/s  
95th percentile per-packet one-way delay: 2.744 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.16 Mbit/s  
95th percentile per-packet one-way delay: 14.809 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.28 Mbit/s  
95th percentile per-packet one-way delay: 16.450 ms  
Loss rate: 0.00%



Run 10: Report of Indigo-calib — Data Link

