

## Pantheon Report

Generated at 2017-08-11 16:30:51 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

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

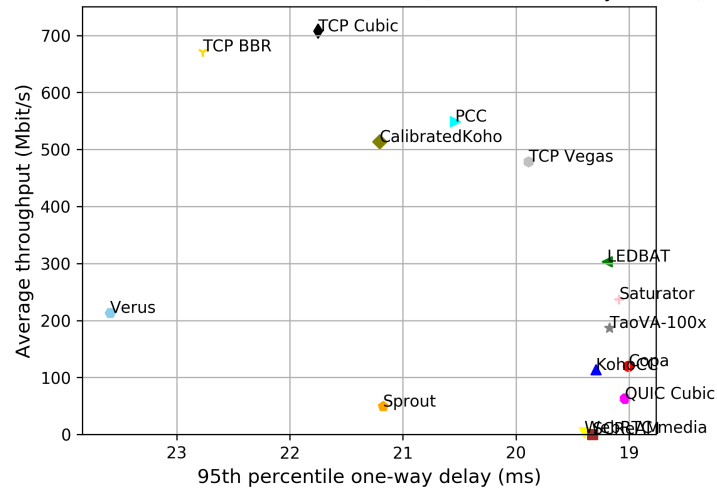
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

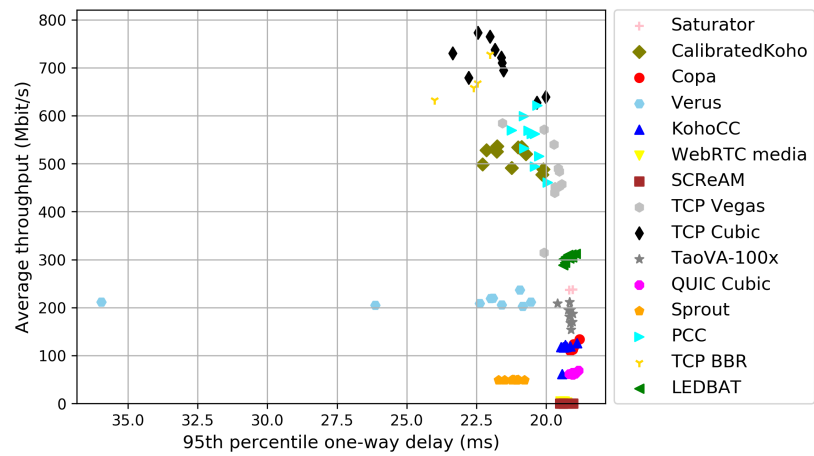
Git summary:

```
branch: master @ e43be7582298d552838afcf6382342bf187fbbd6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
  M scripts/merge-tunnel-logs
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 1 Ethernet to Stanford 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	4	345.55	327.05	283.53	22.70	22.39	23.20	0.06	0.11	0.10
CalibratedKoho	10	307.49	220.00	182.09	20.83	21.33	21.50	0.02	0.00	0.00
Copa	6	64.60	59.30	48.04	18.71	19.03	18.95	0.00	0.00	0.01
TCP Cubic	10	376.88	335.27	325.39	21.46	21.68	22.06	0.01	0.01	0.02
KohoCC	10	119.05	59.36	58.86	129.35	19.23	19.27	0.00	0.00	0.00
LEDBAT	10	179.77	132.80	103.41	19.11	19.11	19.14	0.00	0.00	0.00
PCC	10	386.99	182.61	124.70	20.59	19.92	19.55	0.07	0.02	0.00
QUIC Cubic	9	0.30	67.14	51.93	18.97	18.82	19.03	0.00	0.00	0.00
Saturator	3	118.84	118.78	118.14	19.06	18.98	19.06	0.02	0.00	0.00
SCReAM	10	0.22	0.22	0.22	19.19	19.11	19.11	0.01	0.00	0.00
Sprout	10	24.74	24.70	24.25	21.26	20.88	20.70	0.00	0.00	0.00
TaoVA-100x	10	118.58	74.74	56.46	19.12	19.28	19.00	0.08	0.00	0.00
TCP Vegas	10	241.14	256.09	201.54	19.75	19.84	19.57	0.00	0.00	0.00
Verus	9	130.06	92.91	66.58	24.47	22.17	21.66	0.00	0.00	0.00
WebRTC media	10	1.65	1.46	0.55	19.53	19.18	19.66	0.01	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-08-11 09:30:48

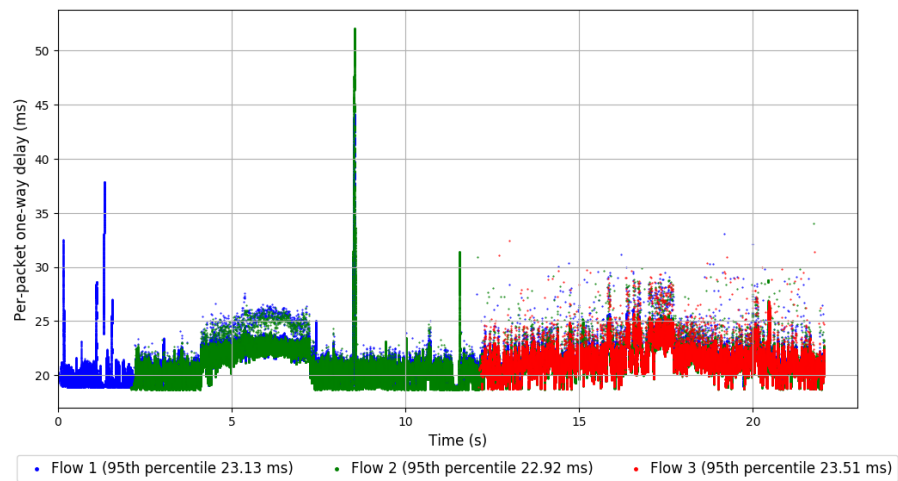
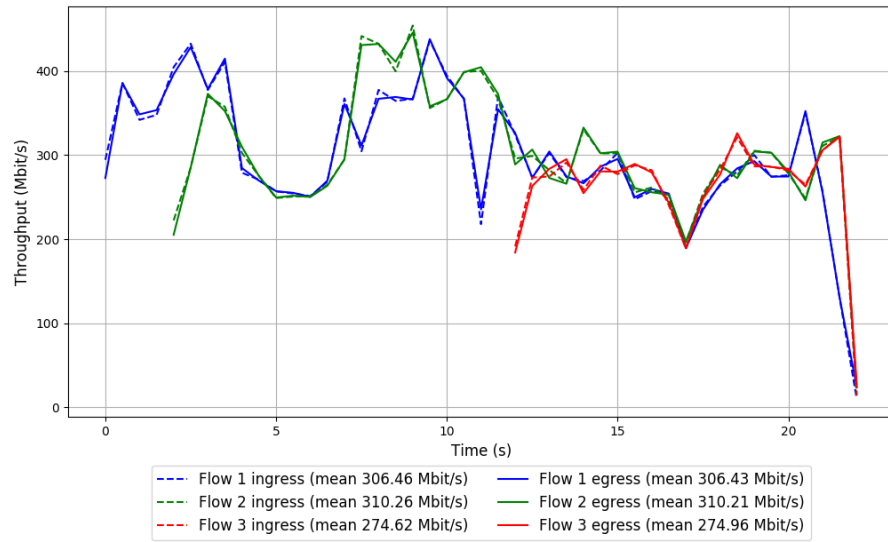
End at: 2017-08-11 09:31:18

Local clock offset: 0.29 ms

Remote clock offset: -0.606 ms



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

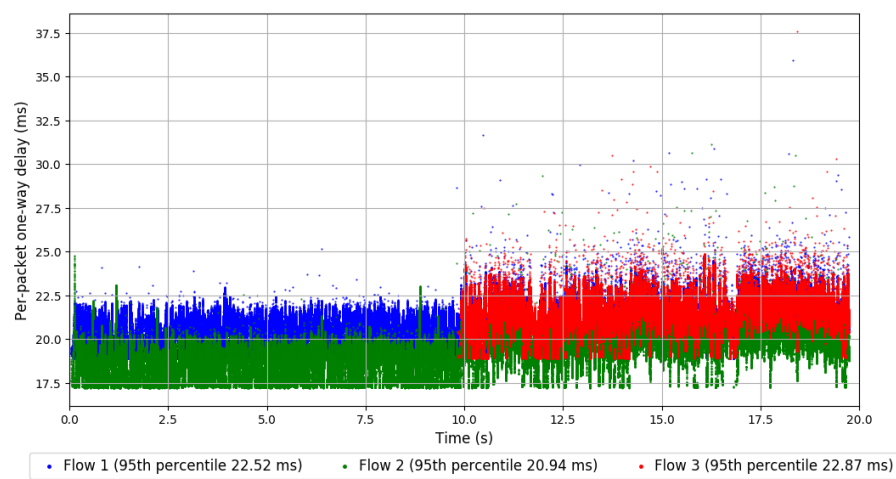
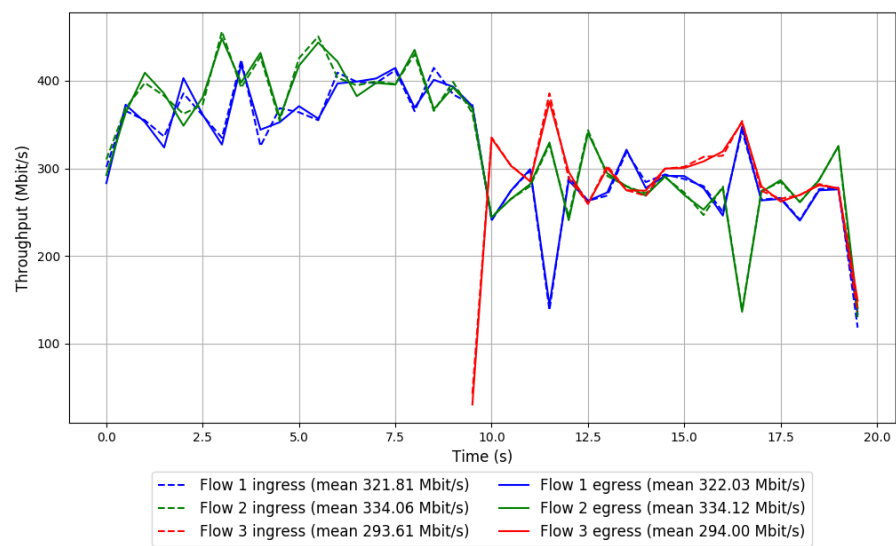
Start at: 2017-08-11 09:52:18

End at: 2017-08-11 09:52:48

Local clock offset: 0.434 ms

Remote clock offset: -0.836 ms

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

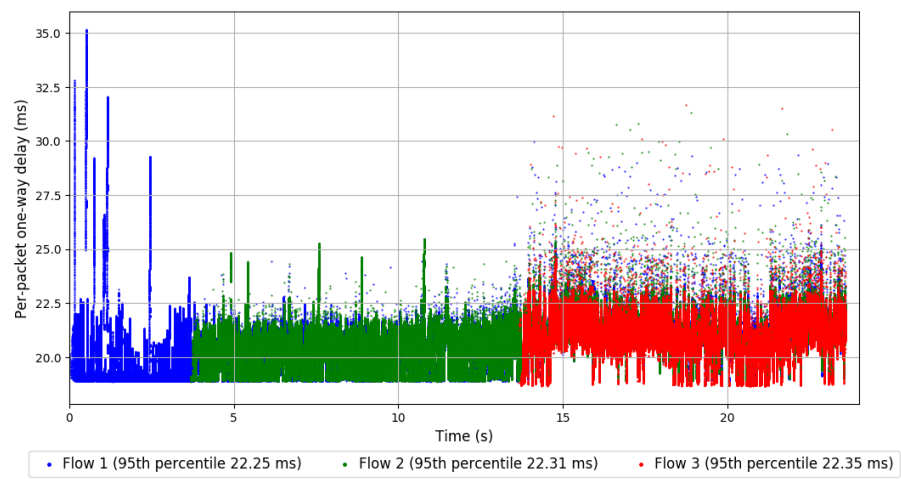
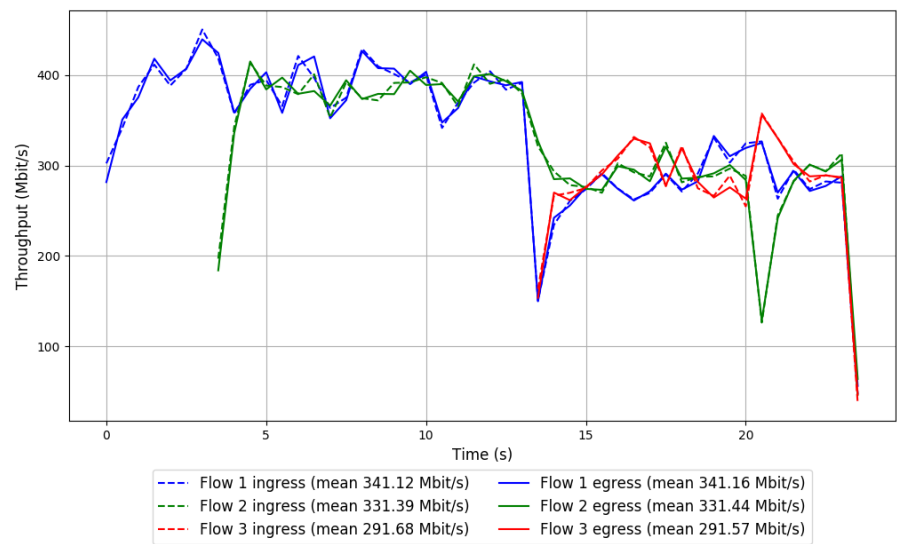
Start at: 2017-08-11 10:13:42

End at: 2017-08-11 10:14:12

Local clock offset: 0.369 ms

Remote clock offset: -1.155 ms

Run 3: Report of TCP BBR — Data Link

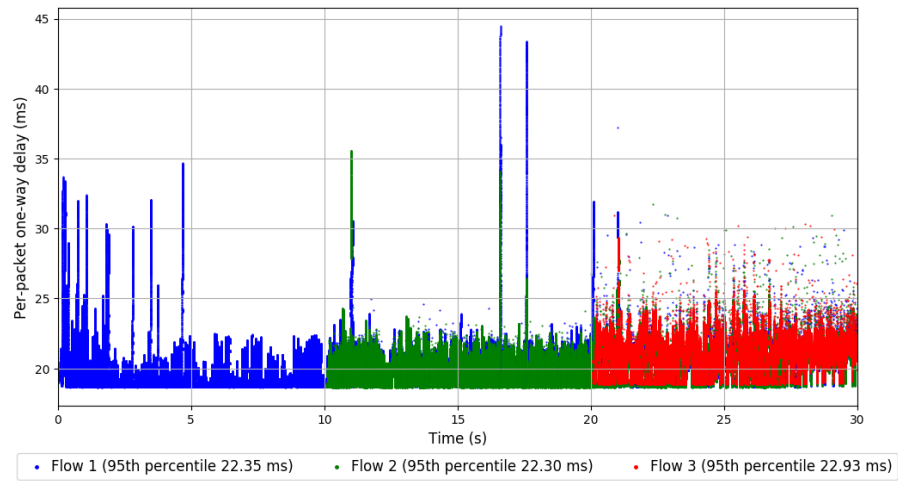
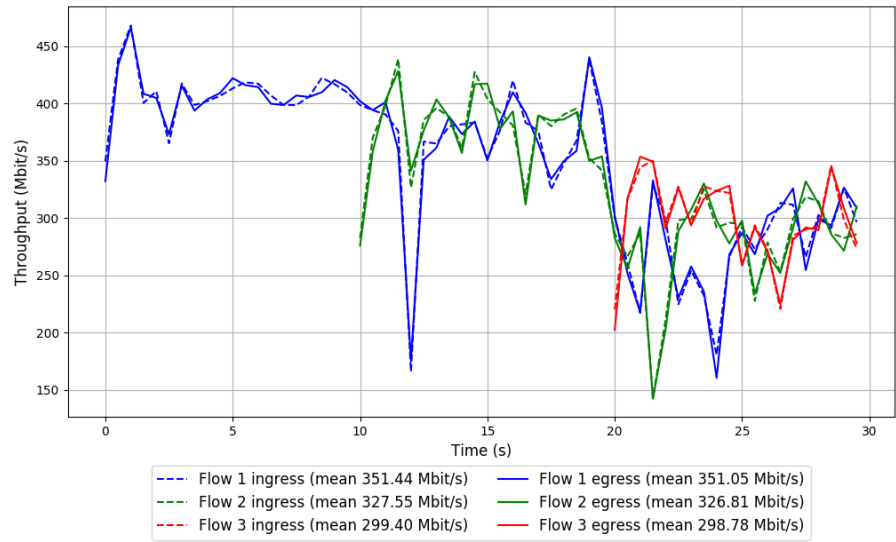


Run 4: Statistics of TCP BBR

Start at: 2017-08-11 10:35:26  
End at: 2017-08-11 10:35:56  
Local clock offset: 0.532 ms  
Remote clock offset: -1.195 ms

# Below is generated by plot.py at 2017-08-11 15:48:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 667.84 Mbit/s  
95th percentile per-packet one-way delay: 22.457 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 351.05 Mbit/s  
95th percentile per-packet one-way delay: 22.353 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 326.81 Mbit/s  
95th percentile per-packet one-way delay: 22.299 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 298.78 Mbit/s  
95th percentile per-packet one-way delay: 22.933 ms  
Loss rate: 0.20%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-08-11 10:56:58

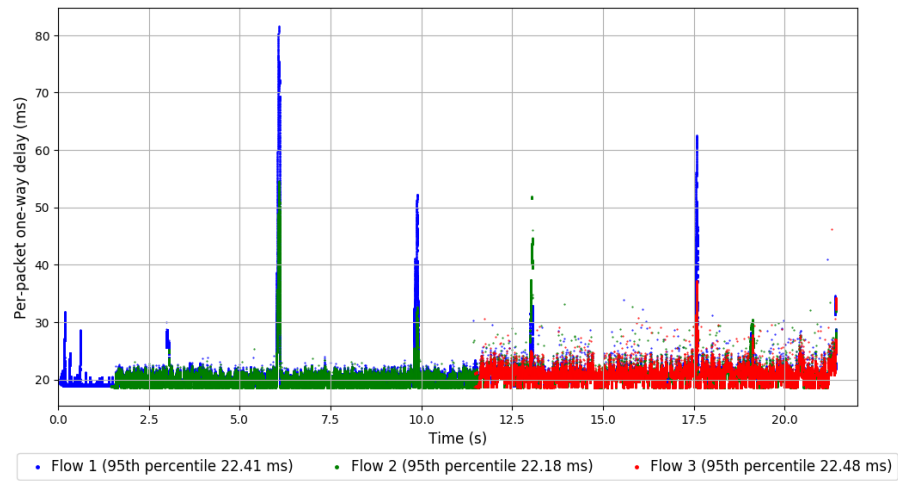
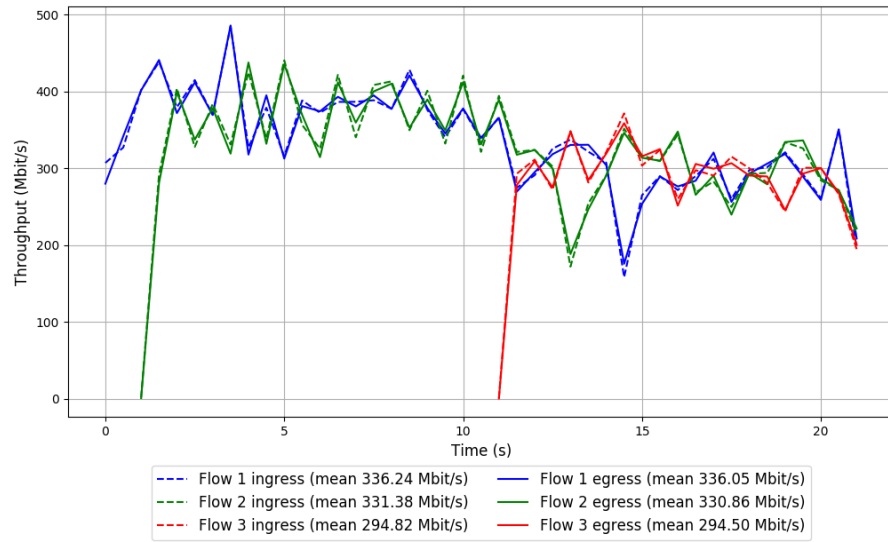
End at: 2017-08-11 10:57:28

Local clock offset: 0.593 ms

Remote clock offset: -1.254 ms



# Run 5: Report of TCP BBR — Data Link

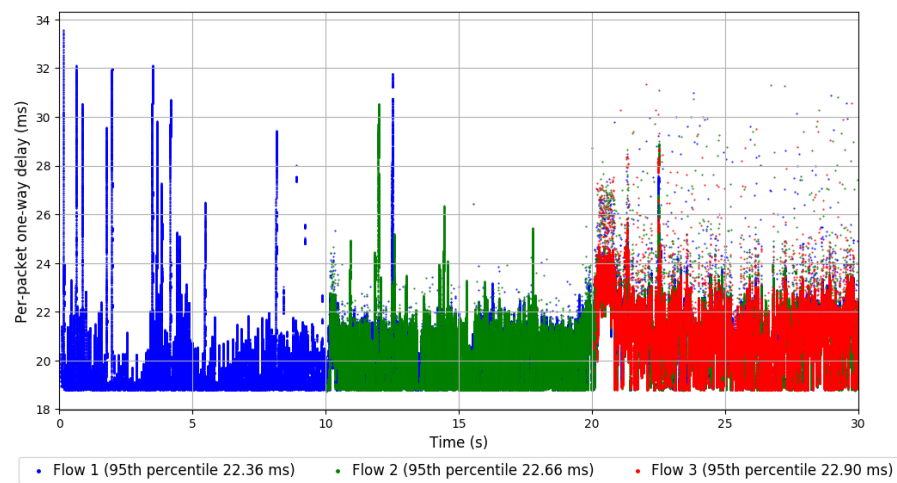
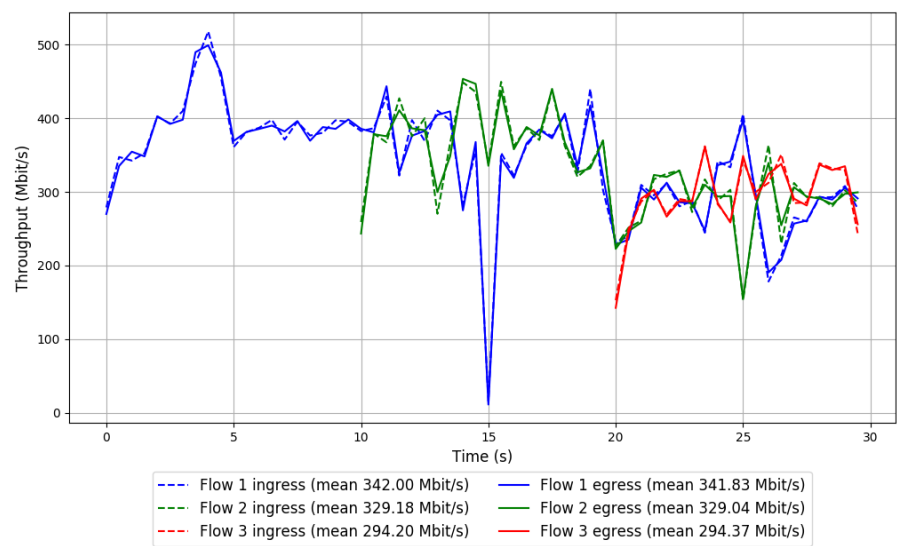


Run 6: Statistics of TCP BBR

Start at: 2017-08-11 11:18:27  
End at: 2017-08-11 11:18:57  
Local clock offset: 0.646 ms  
Remote clock offset: -1.195 ms

# Below is generated by plot.py at 2017-08-11 15:49:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 658.74 Mbit/s  
95th percentile per-packet one-way delay: 22.600 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 341.83 Mbit/s  
95th percentile per-packet one-way delay: 22.360 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 329.04 Mbit/s  
95th percentile per-packet one-way delay: 22.658 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 294.37 Mbit/s  
95th percentile per-packet one-way delay: 22.899 ms  
Loss rate: 0.10%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

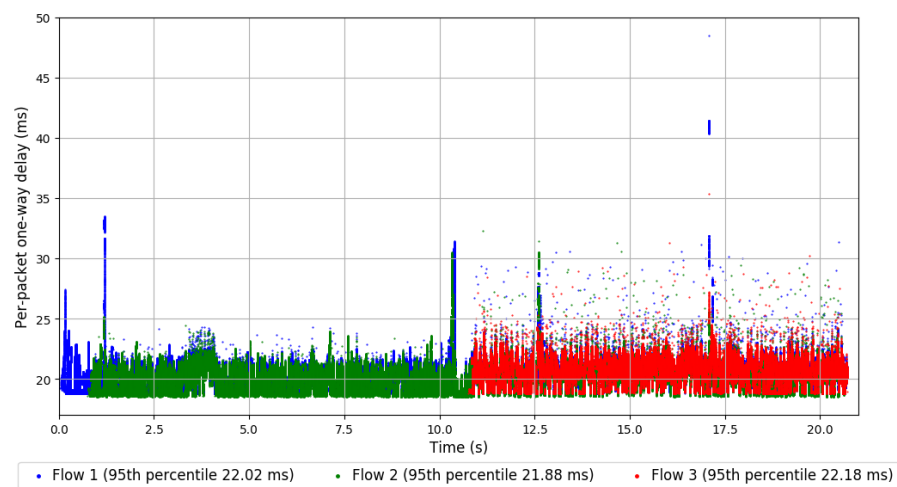
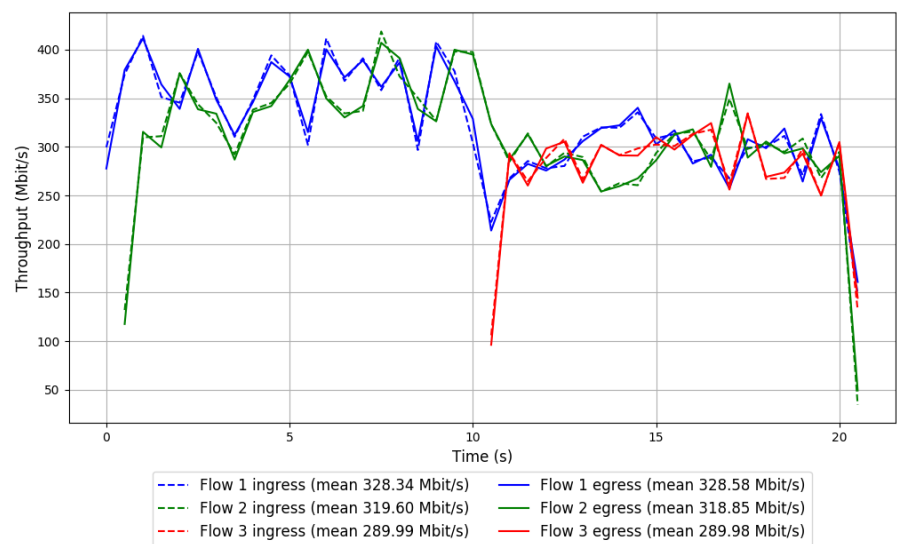
Start at: 2017-08-11 11:40:12

End at: 2017-08-11 11:40:42

Local clock offset: 0.792 ms

Remote clock offset: -1.143 ms

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

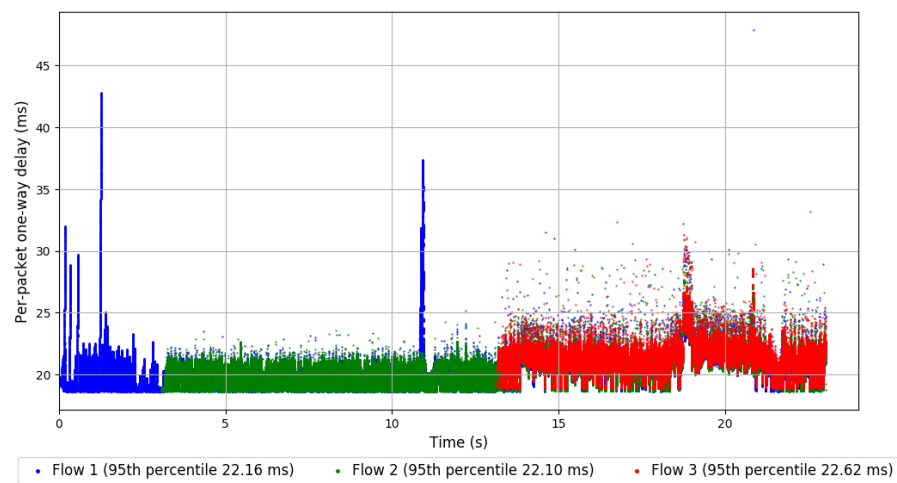
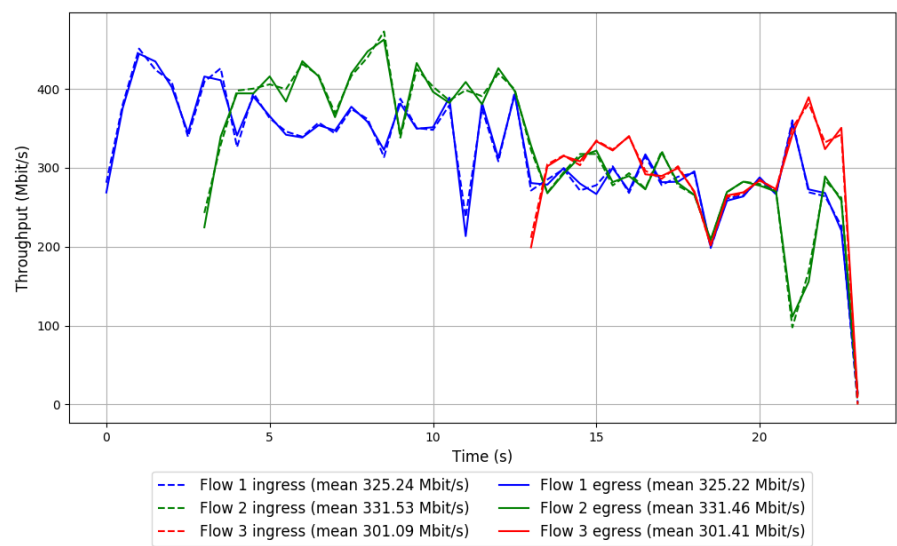
Start at: 2017-08-11 12:01:35

End at: 2017-08-11 12:02:05

Local clock offset: 0.819 ms

Remote clock offset: -1.174 ms

Run 8: Report of TCP BBR — Data Link



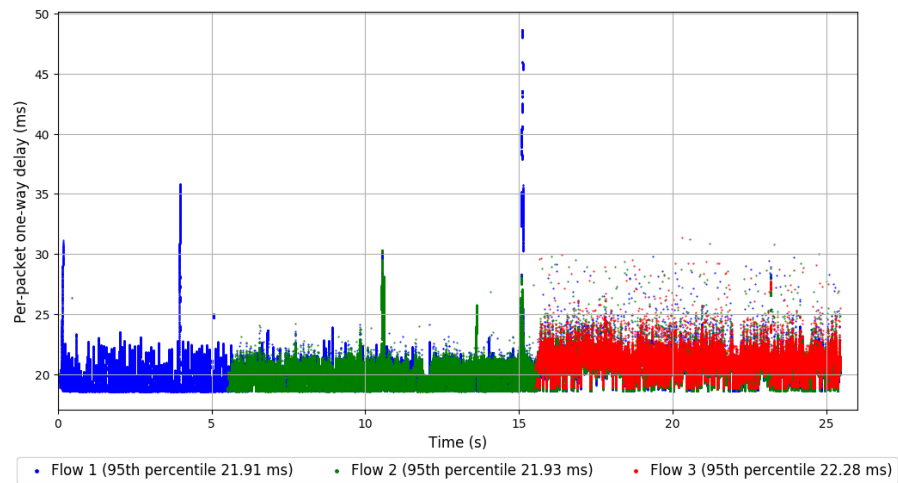
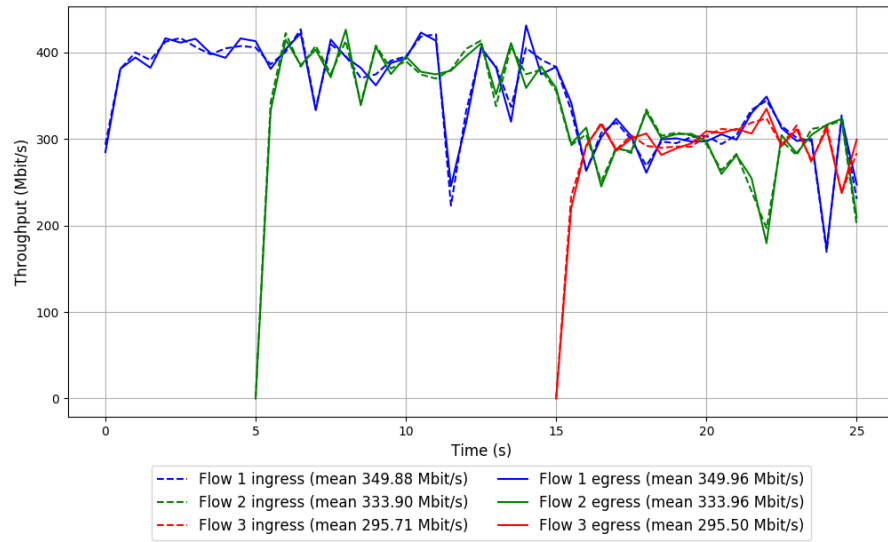
Run 9: Statistics of TCP BBR

Start at: 2017-08-11 12:23:18  
End at: 2017-08-11 12:23:48  
Local clock offset: 0.783 ms  
Remote clock offset: -1.465 ms

# Below is generated by plot.py at 2017-08-11 15:51:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 727.68 Mbit/s  
95th percentile per-packet one-way delay: 22.019 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 349.96 Mbit/s  
95th percentile per-packet one-way delay: 21.908 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 333.96 Mbit/s  
95th percentile per-packet one-way delay: 21.926 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 295.50 Mbit/s  
95th percentile per-packet one-way delay: 22.281 ms  
Loss rate: 0.06%



# Run 9: Report of TCP BBR — Data Link

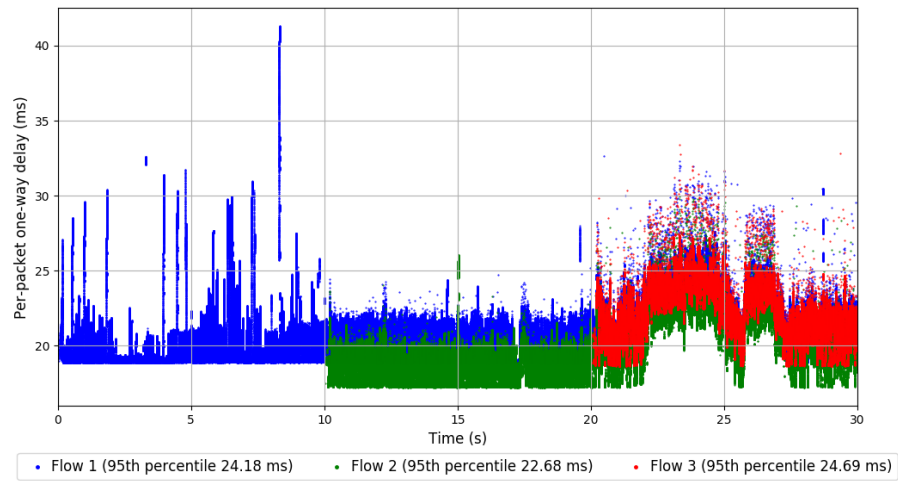
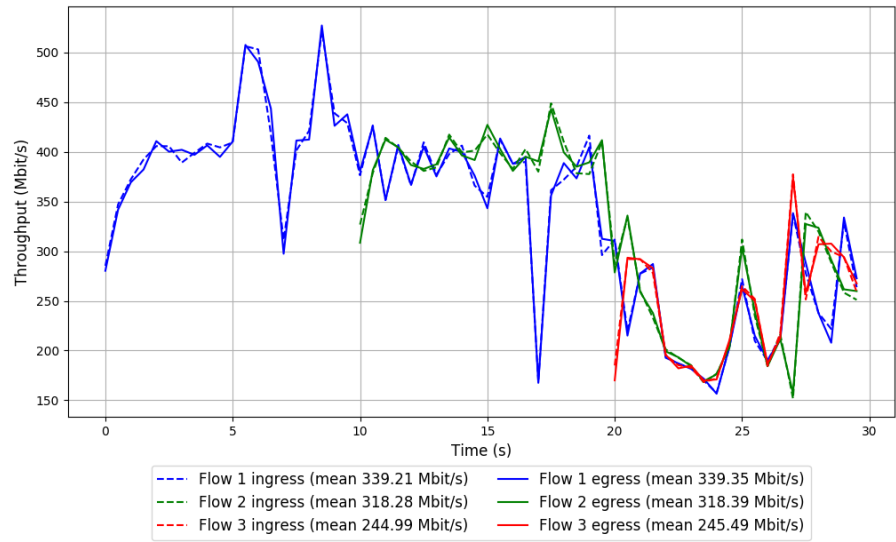


Run 10: Statistics of TCP BBR

Start at: 2017-08-11 12:44:52  
End at: 2017-08-11 12:45:22  
Local clock offset: 0.731 ms  
Remote clock offset: -1.633 ms

# Below is generated by plot.py at 2017-08-11 15:51:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 632.51 Mbit/s  
95th percentile per-packet one-way delay: 24.001 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 339.35 Mbit/s  
95th percentile per-packet one-way delay: 24.175 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 318.39 Mbit/s  
95th percentile per-packet one-way delay: 22.676 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 245.49 Mbit/s  
95th percentile per-packet one-way delay: 24.688 ms  
Loss rate: 0.05%

Run 10: Report of TCP BBR — Data Link

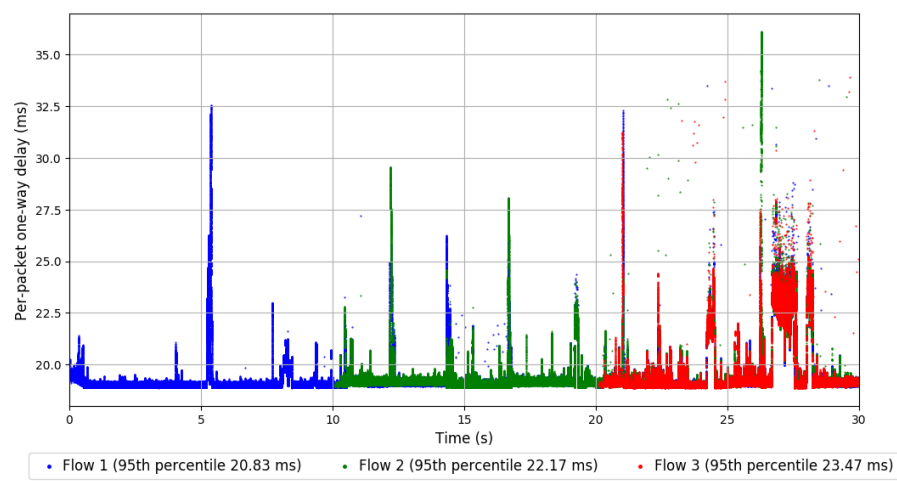
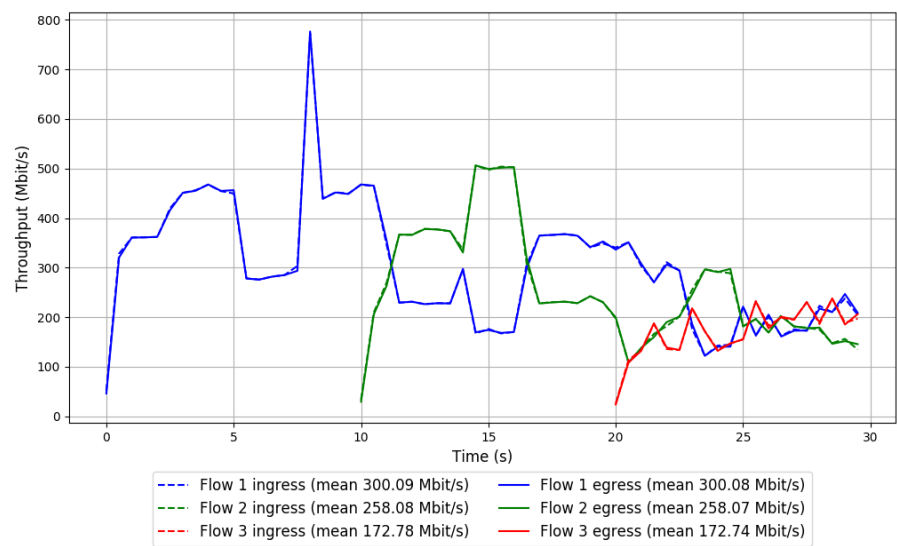


Run 1: Statistics of CalibratedKoho

Start at: 2017-08-11 09:29:03  
End at: 2017-08-11 09:29:33  
Local clock offset: 0.369 ms  
Remote clock offset: -0.526 ms

# Below is generated by plot.py at 2017-08-11 15:52:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 528.14 Mbit/s  
95th percentile per-packet one-way delay: 22.148 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 300.08 Mbit/s  
95th percentile per-packet one-way delay: 20.833 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 258.07 Mbit/s  
95th percentile per-packet one-way delay: 22.167 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 172.74 Mbit/s  
95th percentile per-packet one-way delay: 23.466 ms  
Loss rate: 0.00%

Run 1: Report of CalibratedKoho — Data Link

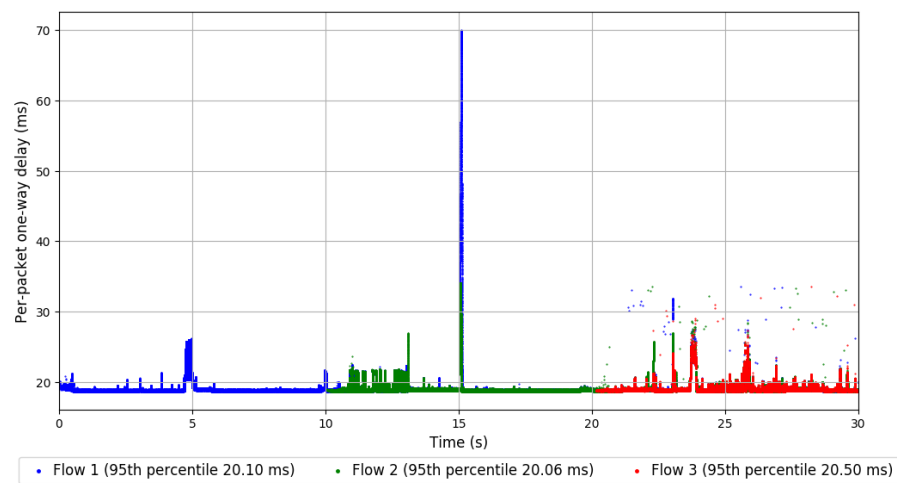
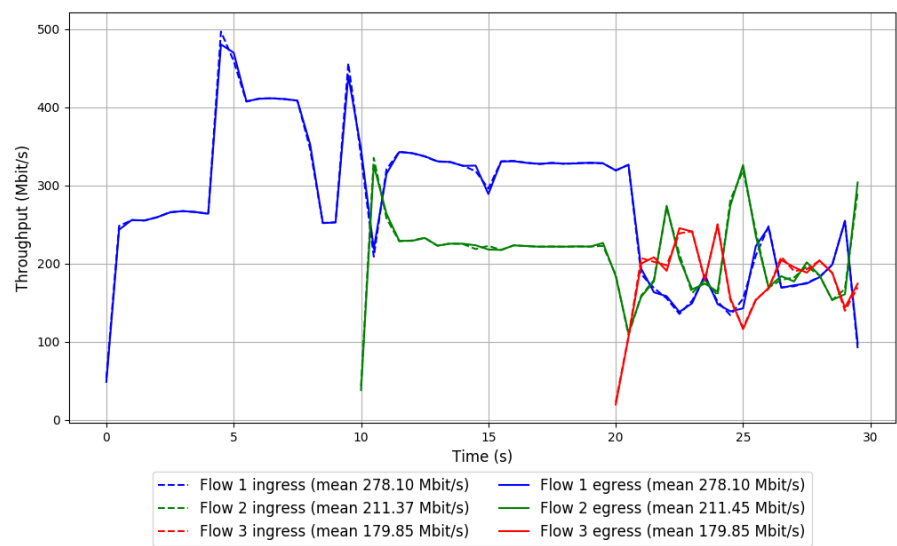


Run 2: Statistics of CalibratedKoho

Start at: 2017-08-11 09:50:36  
End at: 2017-08-11 09:51:06  
Local clock offset: 0.342 ms  
Remote clock offset: -0.885 ms

# Below is generated by plot.py at 2017-08-11 15:52:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 477.51 Mbit/s  
95th percentile per-packet one-way delay: 20.140 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 278.10 Mbit/s  
95th percentile per-packet one-way delay: 20.101 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 211.45 Mbit/s  
95th percentile per-packet one-way delay: 20.062 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 179.85 Mbit/s  
95th percentile per-packet one-way delay: 20.495 ms  
Loss rate: 0.00%

Run 2: Report of CalibratedKoho — Data Link



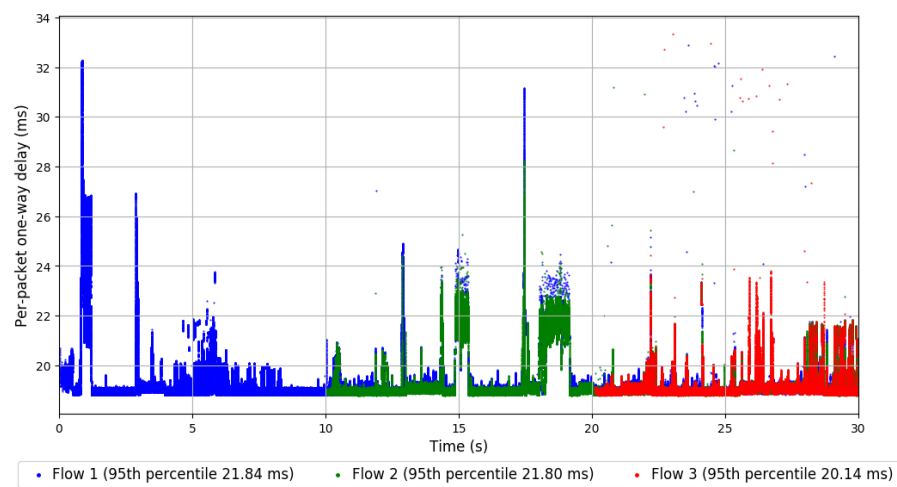
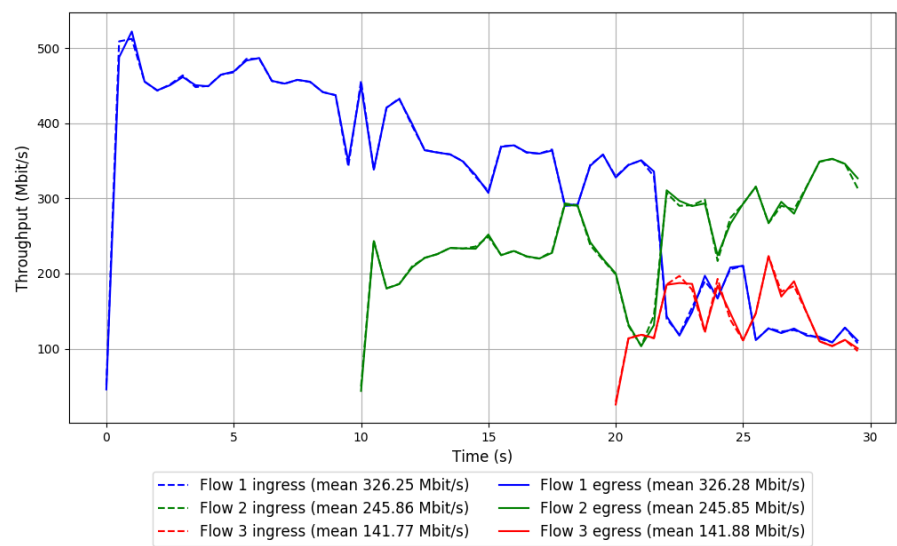
Run 3: Statistics of CalibratedKoho

Start at: 2017-08-11 10:11:56  
End at: 2017-08-11 10:12:26  
Local clock offset: 0.47 ms  
Remote clock offset: -1.131 ms

# Below is generated by plot.py at 2017-08-11 15:53:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 536.67 Mbit/s  
95th percentile per-packet one-way delay: 21.758 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 326.28 Mbit/s  
95th percentile per-packet one-way delay: 21.842 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 245.85 Mbit/s  
95th percentile per-packet one-way delay: 21.800 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 141.88 Mbit/s  
95th percentile per-packet one-way delay: 20.138 ms  
Loss rate: 0.00%



Run 3: Report of CalibratedKoho — Data Link

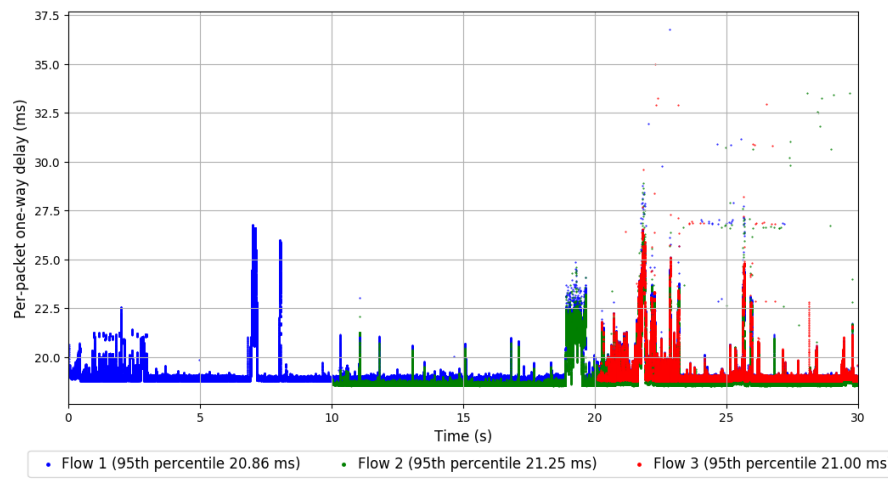
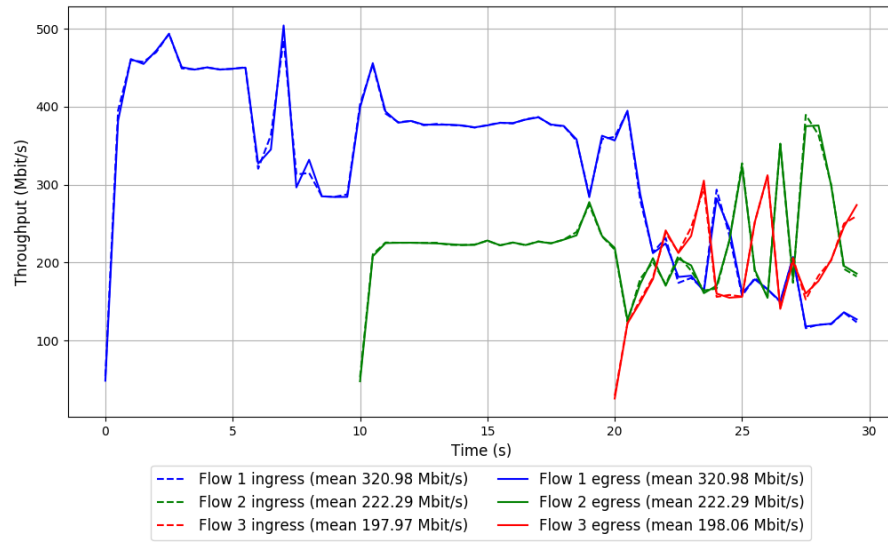


Run 4: Statistics of CalibratedKoho

Start at: 2017-08-11 10:33:40  
End at: 2017-08-11 10:34:10  
Local clock offset: 0.559 ms  
Remote clock offset: -1.246 ms

# Below is generated by plot.py at 2017-08-11 15:53:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 534.15 Mbit/s  
95th percentile per-packet one-way delay: 21.008 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 320.98 Mbit/s  
95th percentile per-packet one-way delay: 20.857 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 222.29 Mbit/s  
95th percentile per-packet one-way delay: 21.254 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 198.06 Mbit/s  
95th percentile per-packet one-way delay: 21.002 ms  
Loss rate: 0.01%

# Run 4: Report of CalibratedKoho — Data Link

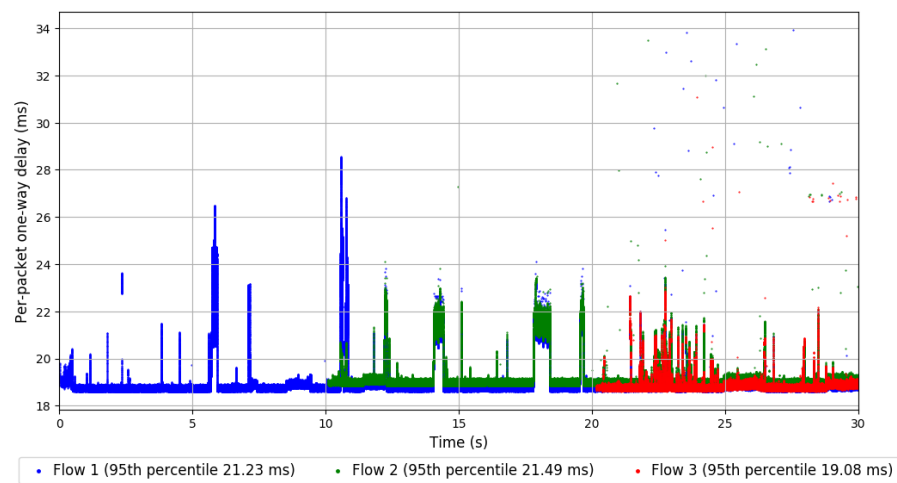
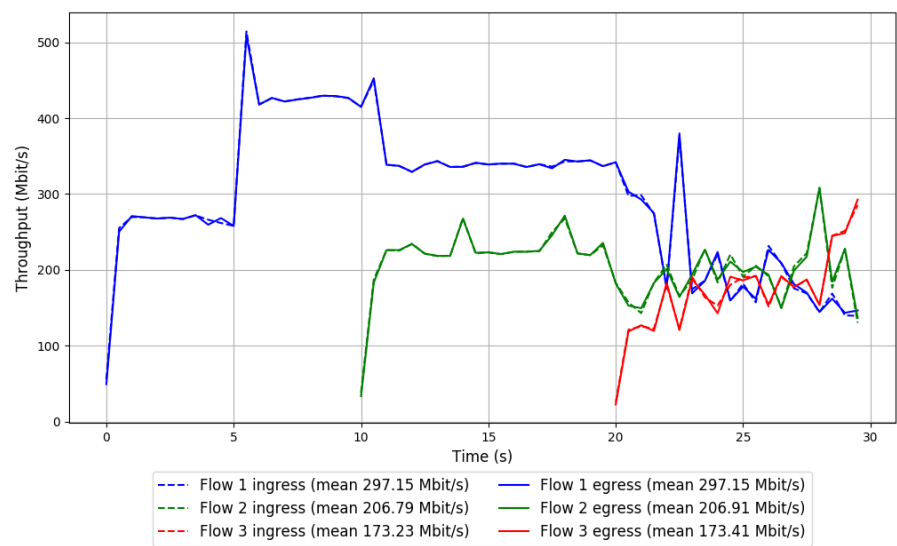


Run 5: Statistics of CalibratedKoho

Start at: 2017-08-11 10:55:15  
End at: 2017-08-11 10:55:45  
Local clock offset: 0.566 ms  
Remote clock offset: -1.286 ms

# Below is generated by plot.py at 2017-08-11 15:54:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 491.38 Mbit/s  
95th percentile per-packet one-way delay: 21.244 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 297.15 Mbit/s  
95th percentile per-packet one-way delay: 21.235 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 206.91 Mbit/s  
95th percentile per-packet one-way delay: 21.486 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 173.41 Mbit/s  
95th percentile per-packet one-way delay: 19.078 ms  
Loss rate: 0.00%

Run 5: Report of CalibratedKoho — Data Link

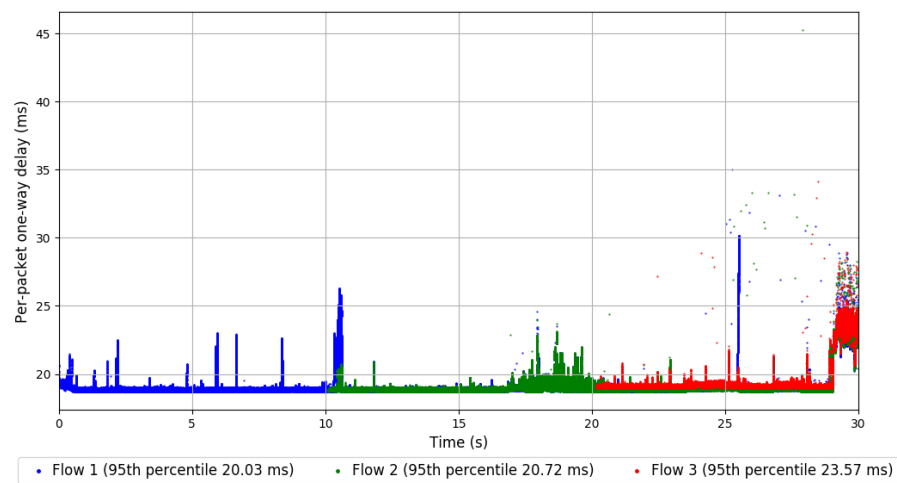
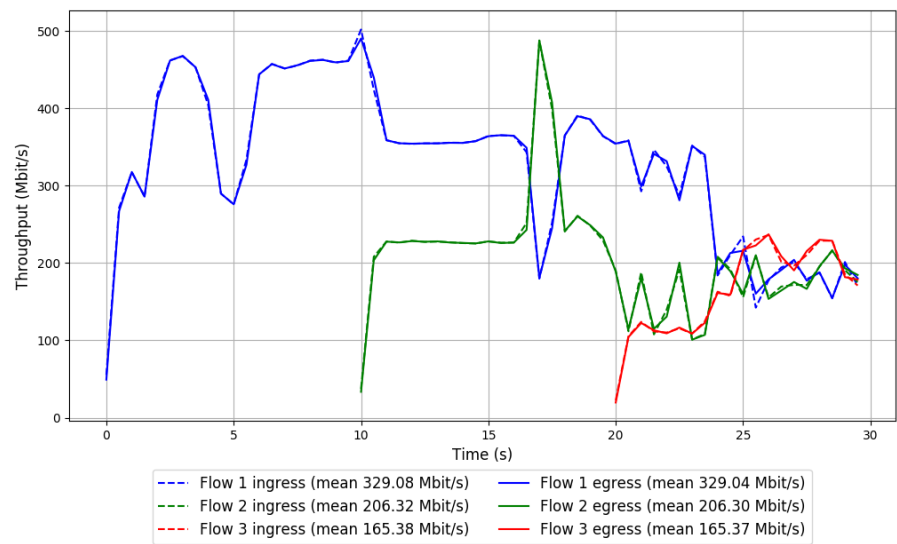


Run 6: Statistics of CalibratedKoho

Start at: 2017-08-11 11:16:43  
End at: 2017-08-11 11:17:13  
Local clock offset: 0.553 ms  
Remote clock offset: -1.146 ms

# Below is generated by plot.py at 2017-08-11 15:55:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 520.17 Mbit/s  
95th percentile per-packet one-way delay: 20.733 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 329.04 Mbit/s  
95th percentile per-packet one-way delay: 20.029 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 206.30 Mbit/s  
95th percentile per-packet one-way delay: 20.723 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 165.37 Mbit/s  
95th percentile per-packet one-way delay: 23.571 ms  
Loss rate: 0.00%

Run 6: Report of CalibratedKoho — Data Link



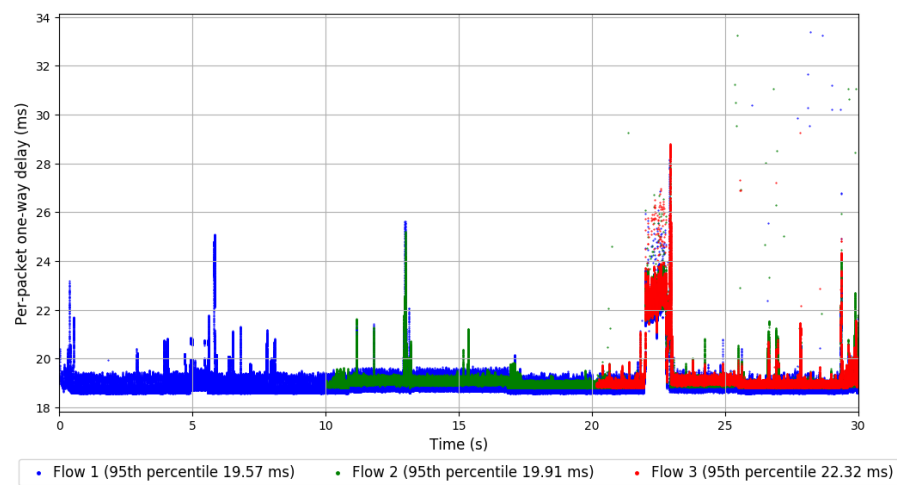
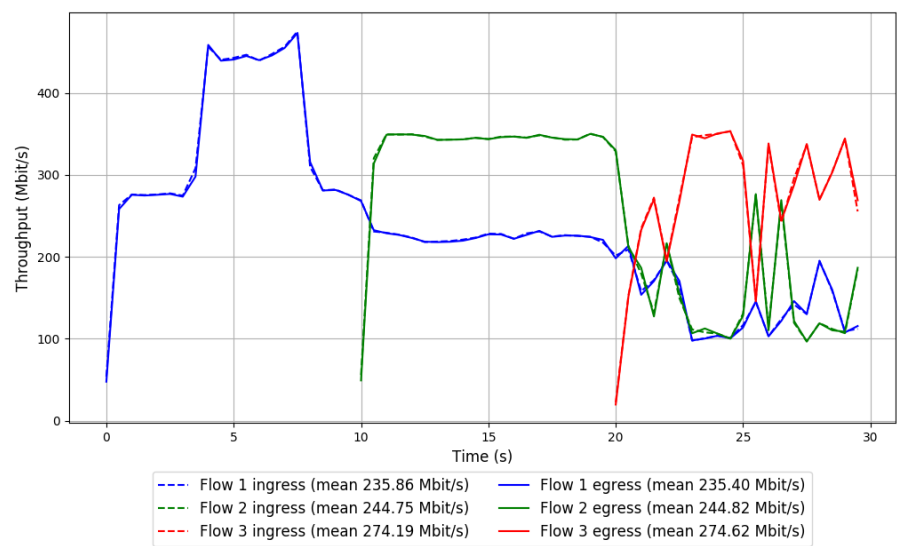
Run 7: Statistics of CalibratedKoho

Start at: 2017-08-11 11:38:30  
End at: 2017-08-11 11:39:00  
Local clock offset: 0.746 ms  
Remote clock offset: -1.141 ms

# Below is generated by plot.py at 2017-08-11 15:55:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 488.40 Mbit/s  
95th percentile per-packet one-way delay: 20.101 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 235.40 Mbit/s  
95th percentile per-packet one-way delay: 19.569 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 244.82 Mbit/s  
95th percentile per-packet one-way delay: 19.915 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 274.62 Mbit/s  
95th percentile per-packet one-way delay: 22.323 ms  
Loss rate: 0.00%



Run 7: Report of CalibratedKoho — Data Link

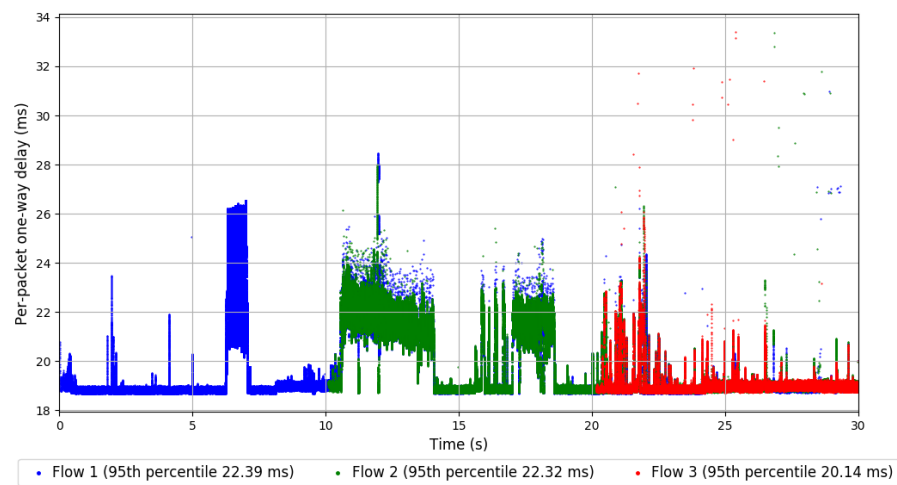
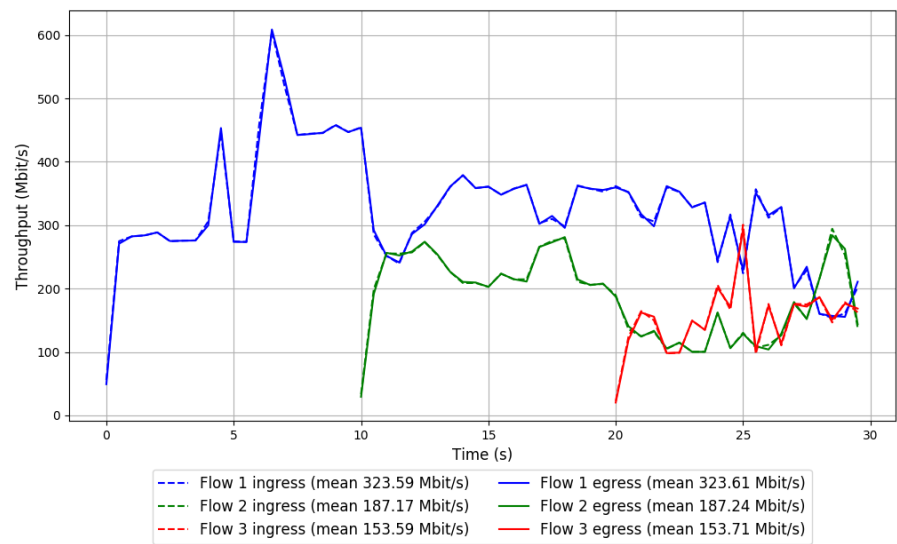


Run 8: Statistics of CalibratedKoho

Start at: 2017-08-11 11:59:51  
End at: 2017-08-11 12:00:21  
Local clock offset: 0.84 ms  
Remote clock offset: -1.139 ms

# Below is generated by plot.py at 2017-08-11 15:56:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 498.28 Mbit/s  
95th percentile per-packet one-way delay: 22.289 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 323.61 Mbit/s  
95th percentile per-packet one-way delay: 22.386 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 187.24 Mbit/s  
95th percentile per-packet one-way delay: 22.321 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 153.71 Mbit/s  
95th percentile per-packet one-way delay: 20.140 ms  
Loss rate: 0.00%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-11 12:21:33

End at: 2017-08-11 12:22:03

Local clock offset: 0.75 ms

Remote clock offset: -1.37 ms

# Below is generated by plot.py at 2017-08-11 15:56:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 525.21 Mbit/s

95th percentile per-packet one-way delay: 21.768 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 342.85 Mbit/s

95th percentile per-packet one-way delay: 21.625 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 192.18 Mbit/s

95th percentile per-packet one-way delay: 21.932 ms

Loss rate: 0.00%

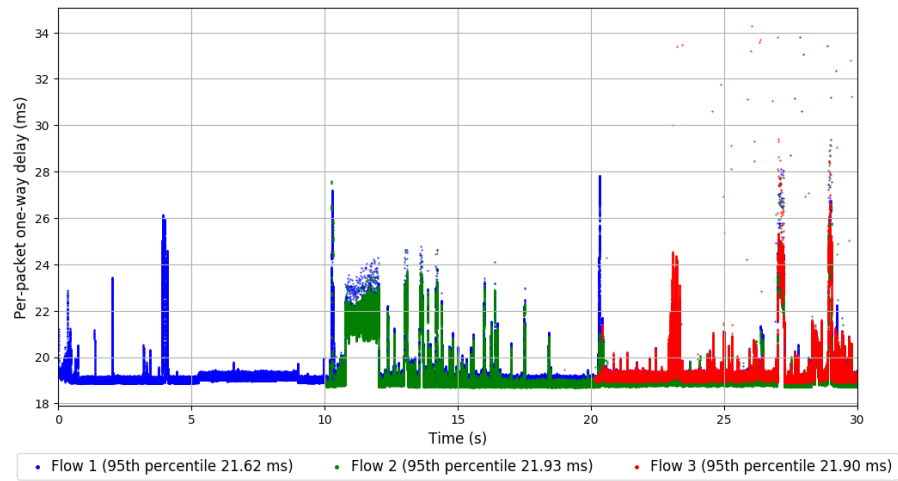
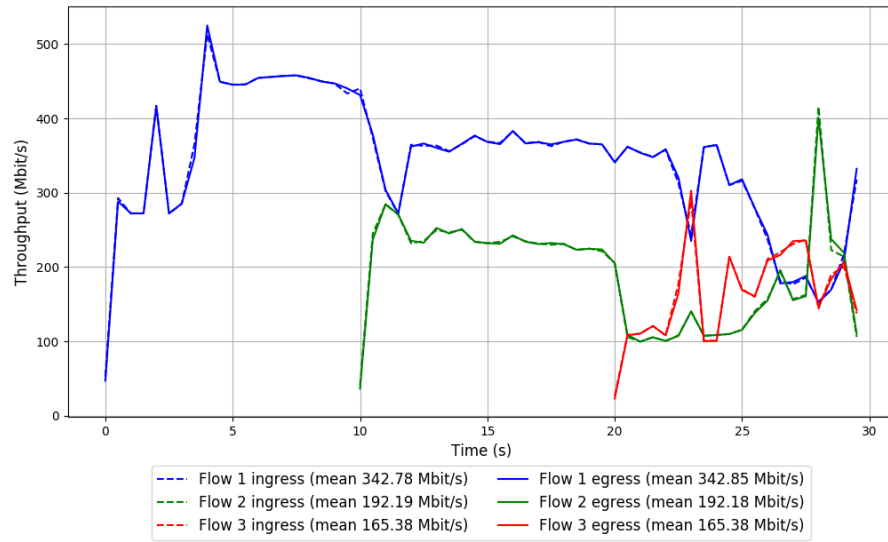
-- Flow 3:

Average throughput: 165.38 Mbit/s

95th percentile per-packet one-way delay: 21.900 ms

Loss rate: 0.00%

## Run 9: Report of CalibratedKoho — Data Link

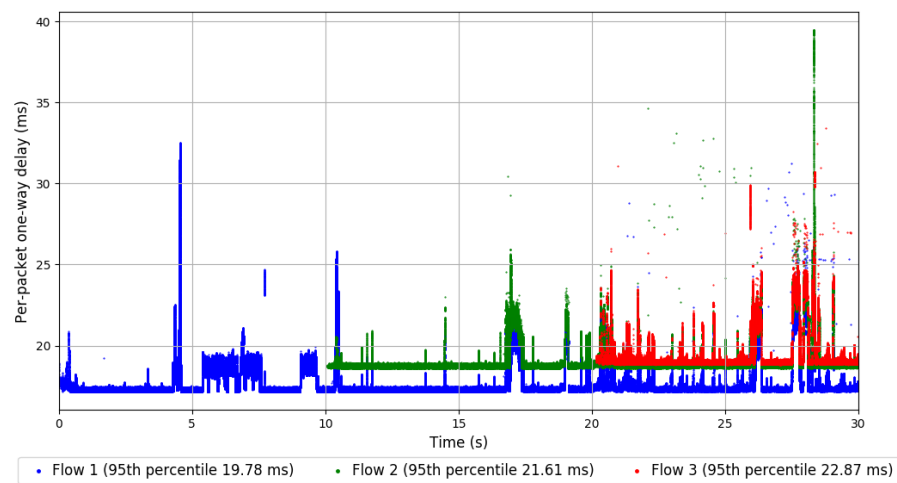
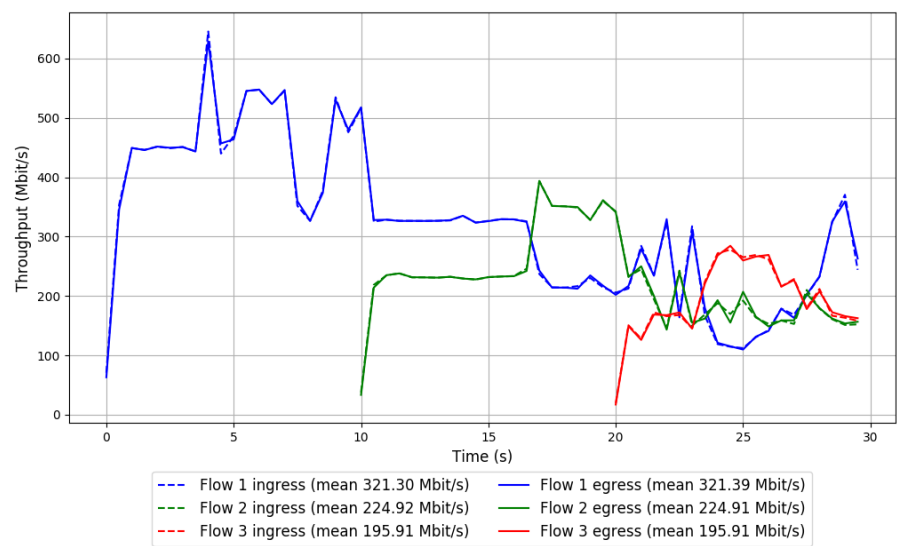


Run 10: Statistics of CalibratedKoho

Start at: 2017-08-11 12:43:06  
End at: 2017-08-11 12:43:36  
Local clock offset: 0.726 ms  
Remote clock offset: -1.695 ms

# Below is generated by plot.py at 2017-08-11 15:57:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 534.85 Mbit/s  
95th percentile per-packet one-way delay: 20.887 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 321.39 Mbit/s  
95th percentile per-packet one-way delay: 19.780 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 224.91 Mbit/s  
95th percentile per-packet one-way delay: 21.613 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 195.91 Mbit/s  
95th percentile per-packet one-way delay: 22.871 ms  
Loss rate: 0.00%

Run 10: Report of CalibratedKoho — Data Link



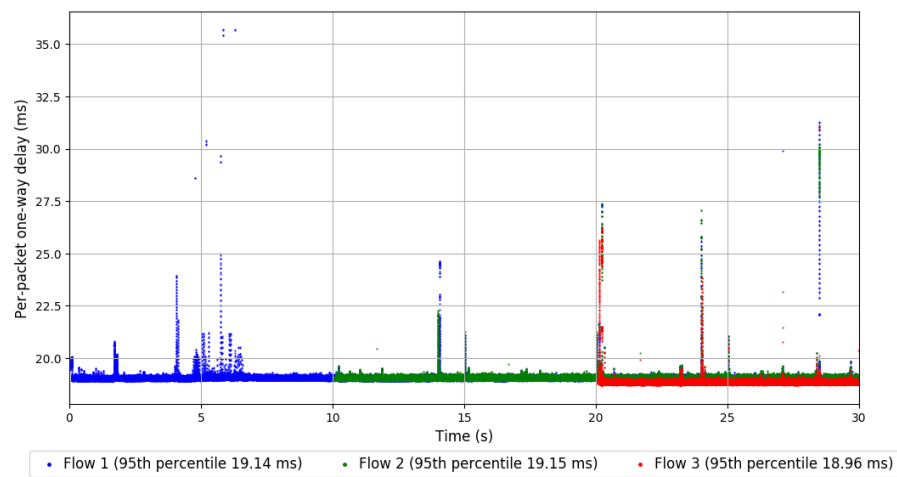
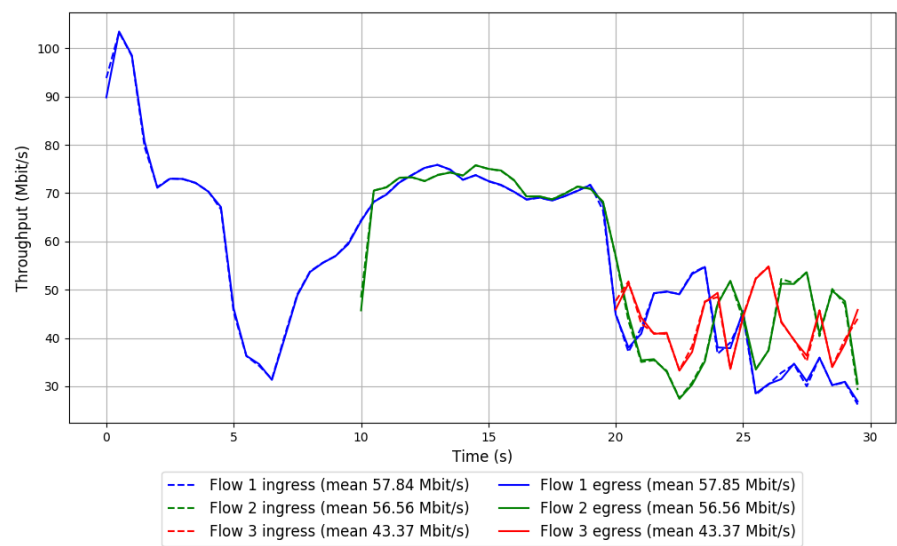
Run 1: Statistics of Copa

Start at: 2017-08-11 09:32:30  
End at: 2017-08-11 09:33:00  
Local clock offset: 0.362 ms  
Remote clock offset: -0.566 ms

# Below is generated by plot.py at 2017-08-11 15:57:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 109.80 Mbit/s  
95th percentile per-packet one-way delay: 19.141 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.85 Mbit/s  
95th percentile per-packet one-way delay: 19.144 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 56.56 Mbit/s  
95th percentile per-packet one-way delay: 19.150 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 43.37 Mbit/s  
95th percentile per-packet one-way delay: 18.961 ms  
Loss rate: 0.01%



Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

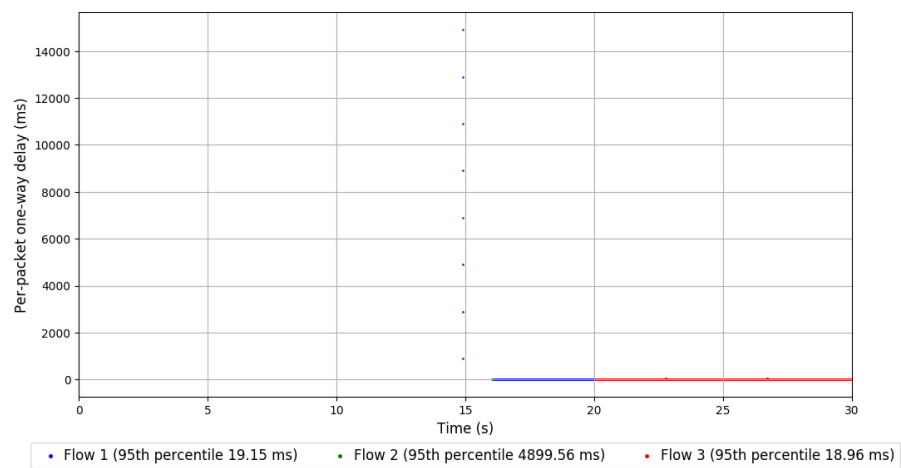
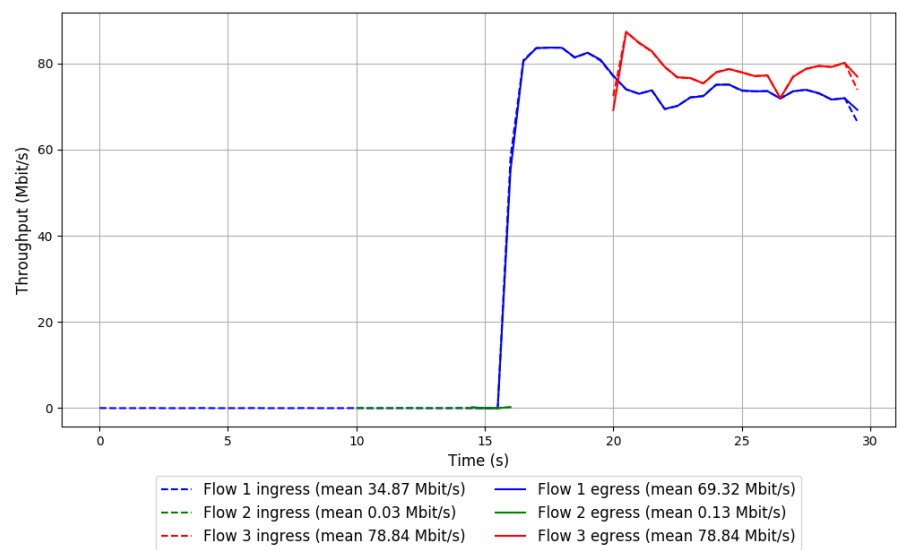
Start at: 2017-08-11 09:54:00

End at: 2017-08-11 09:54:30

Local clock offset: 0.37 ms

Remote clock offset: -0.825 ms

Run 2: Report of Copa — Data Link

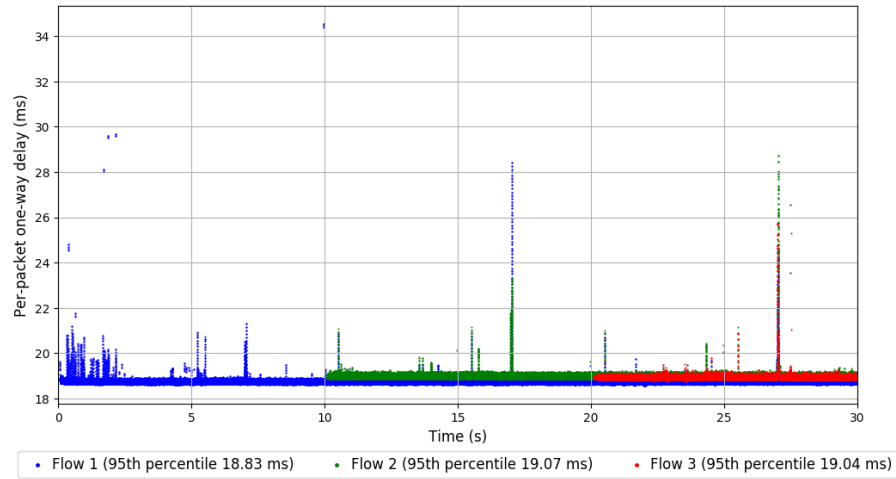
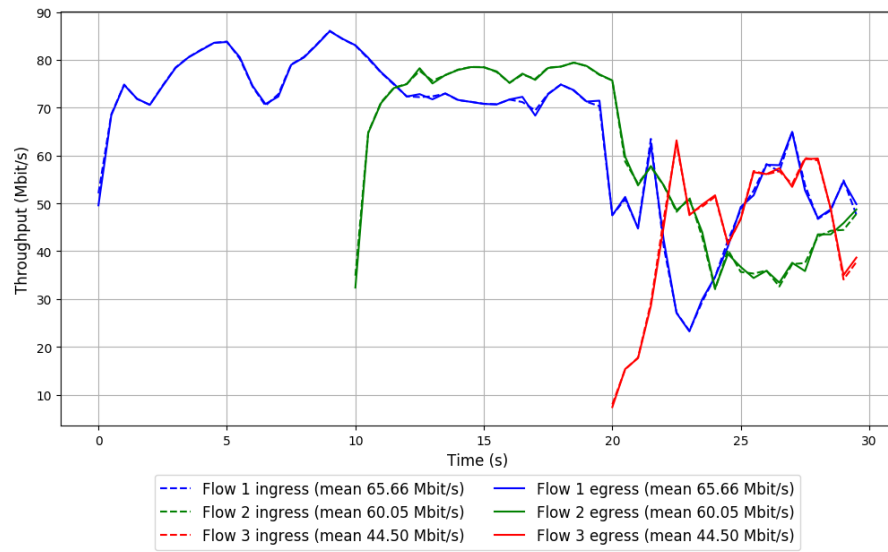


Run 3: Statistics of Copa

Start at: 2017-08-11 10:15:27  
End at: 2017-08-11 10:15:57  
Local clock offset: 0.443 ms  
Remote clock offset: -1.144 ms

# Below is generated by plot.py at 2017-08-11 15:57:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 120.24 Mbit/s  
95th percentile per-packet one-way delay: 19.024 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 65.66 Mbit/s  
95th percentile per-packet one-way delay: 18.827 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.05 Mbit/s  
95th percentile per-packet one-way delay: 19.074 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 44.50 Mbit/s  
95th percentile per-packet one-way delay: 19.036 ms  
Loss rate: 0.01%

### Run 3: Report of Copa — Data Link

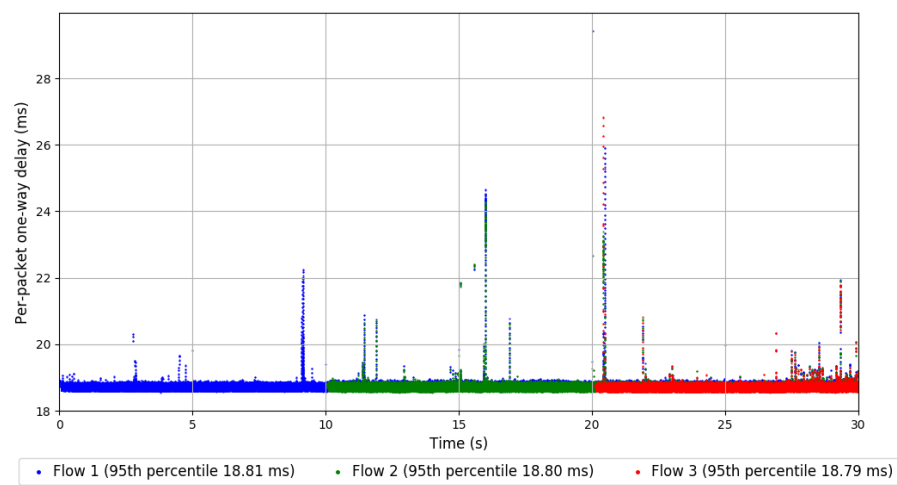
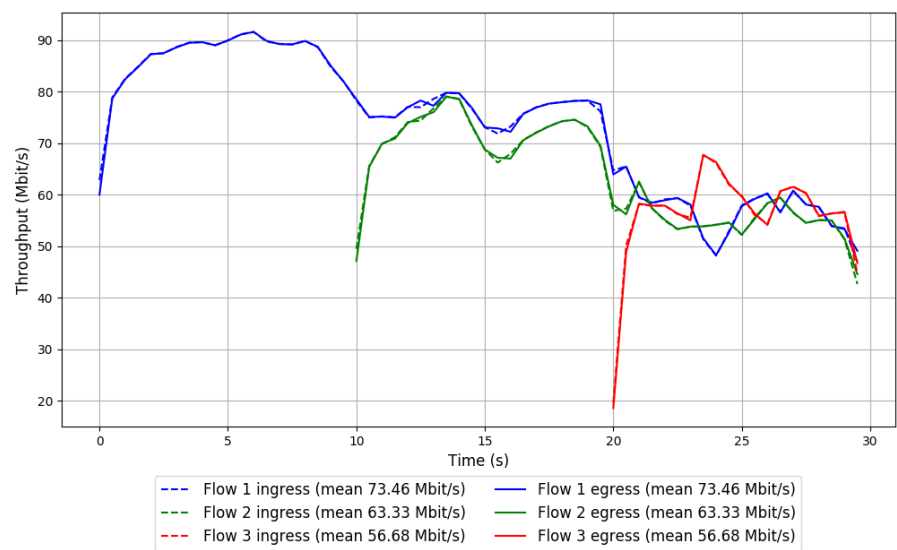


Run 4: Statistics of Copa

Start at: 2017-08-11 10:37:17  
End at: 2017-08-11 10:37:47  
Local clock offset: 0.542 ms  
Remote clock offset: -1.263 ms

# Below is generated by plot.py at 2017-08-11 15:57:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 134.23 Mbit/s  
95th percentile per-packet one-way delay: 18.803 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 73.46 Mbit/s  
95th percentile per-packet one-way delay: 18.809 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 63.33 Mbit/s  
95th percentile per-packet one-way delay: 18.797 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 56.68 Mbit/s  
95th percentile per-packet one-way delay: 18.785 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-11 10:58:42

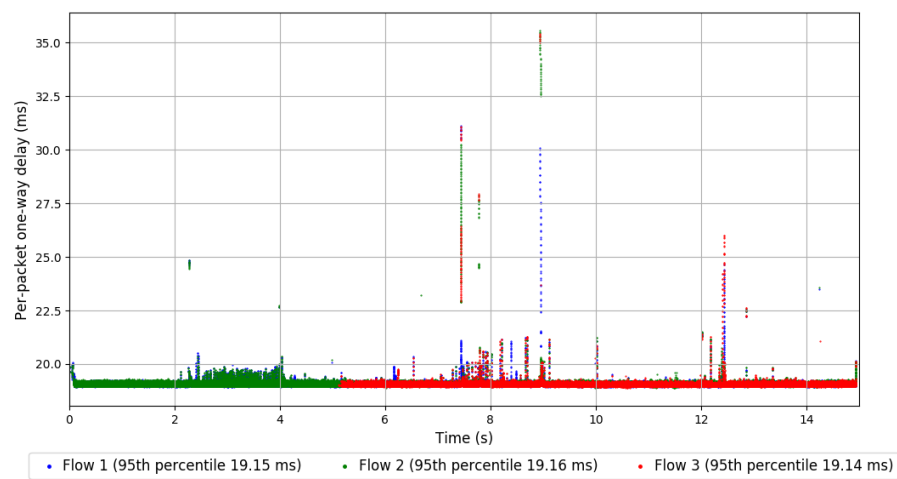
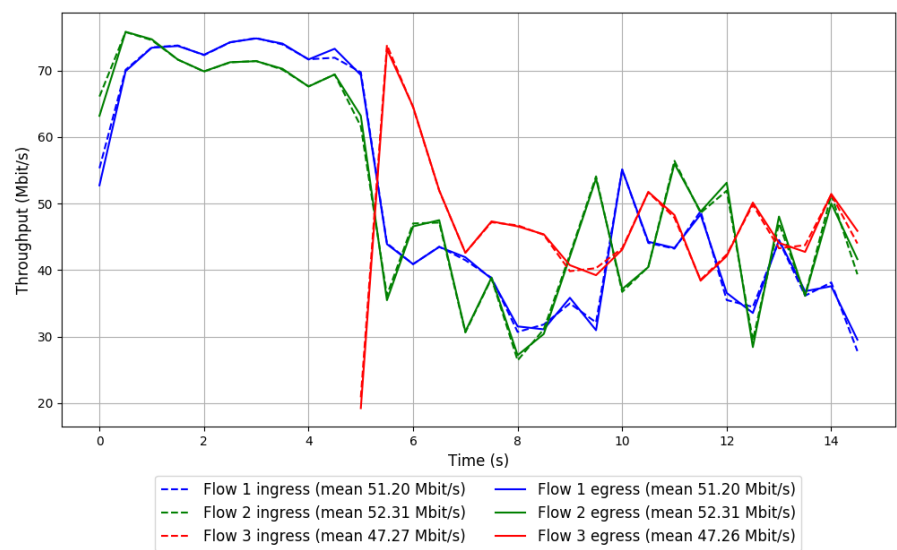
End at: 2017-08-11 10:59:12

Local clock offset: 0.479 ms

Remote clock offset: -1.286 ms



Run 5: Report of Copa — Data Link

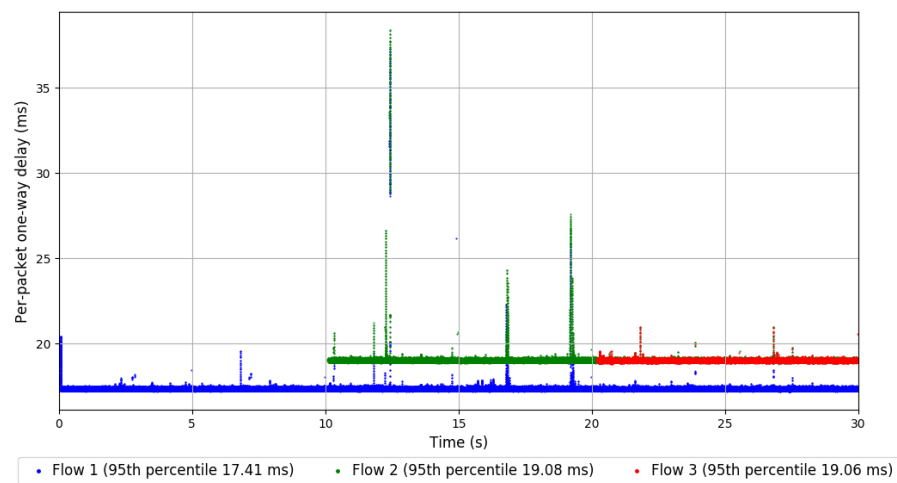
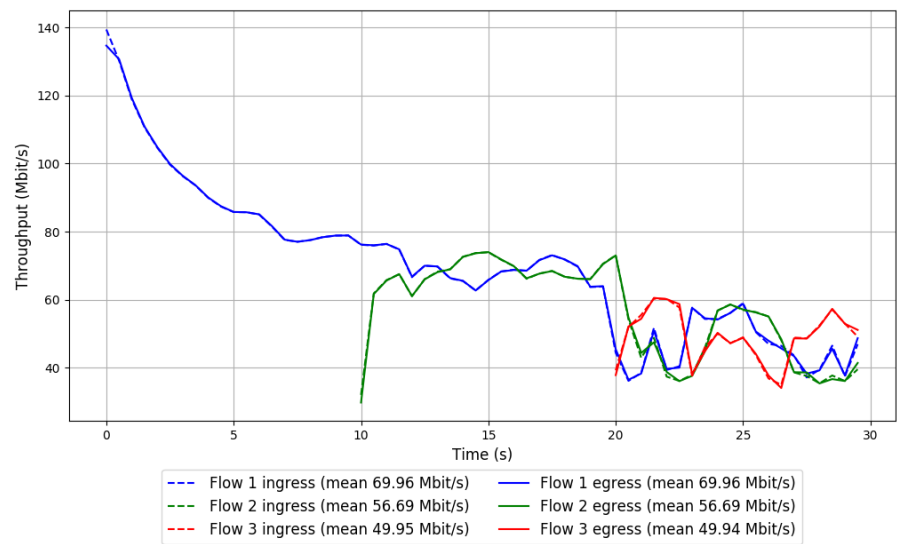


Run 6: Statistics of Copa

Start at: 2017-08-11 11:20:17  
End at: 2017-08-11 11:20:47  
Local clock offset: 0.637 ms  
Remote clock offset: -1.116 ms

# Below is generated by plot.py at 2017-08-11 15:58:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 123.95 Mbit/s  
95th percentile per-packet one-way delay: 19.028 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.96 Mbit/s  
95th percentile per-packet one-way delay: 17.406 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 56.69 Mbit/s  
95th percentile per-packet one-way delay: 19.082 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 49.94 Mbit/s  
95th percentile per-packet one-way delay: 19.062 ms  
Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

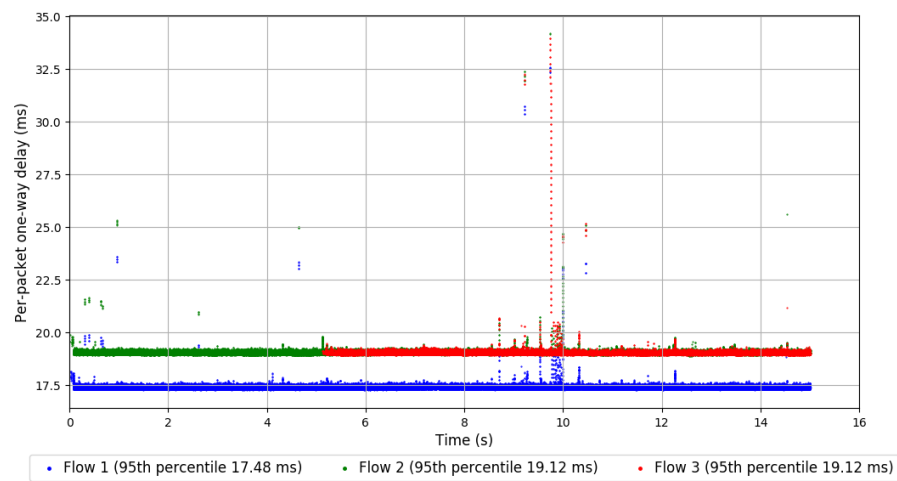
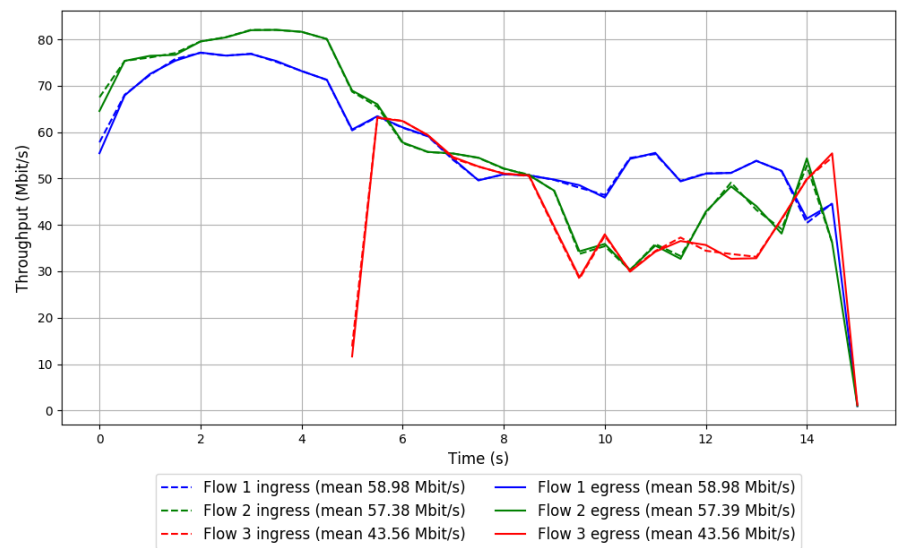
Start at: 2017-08-11 11:41:55

End at: 2017-08-11 11:42:25

Local clock offset: 0.696 ms

Remote clock offset: -1.126 ms

Run 7: Report of Copa — Data Link

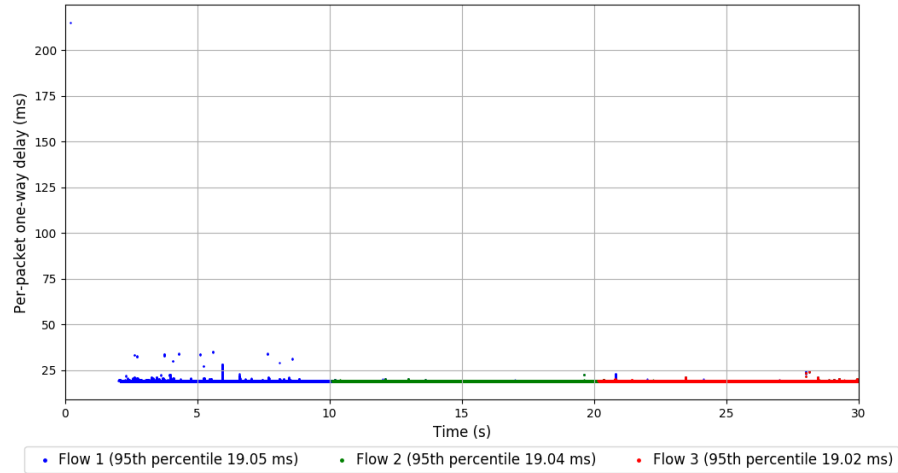
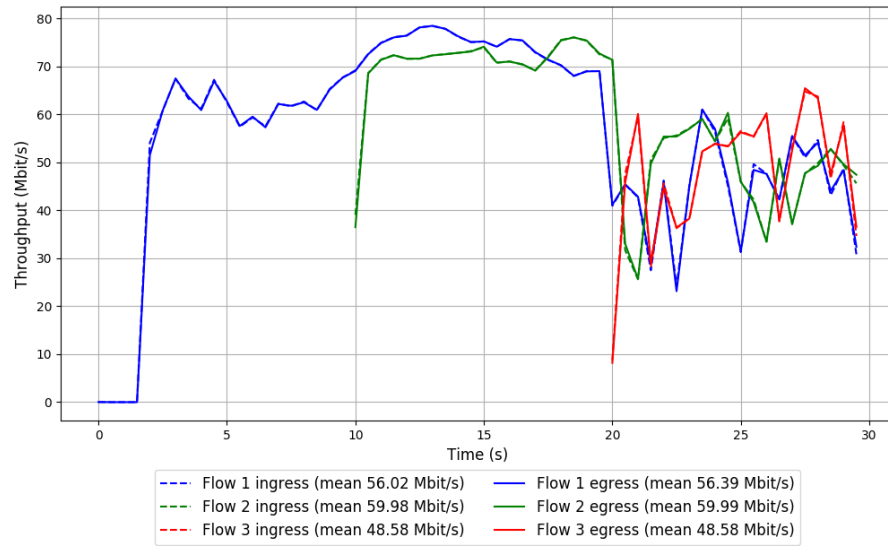


Run 8: Statistics of Copa

Start at: 2017-08-11 12:03:20  
End at: 2017-08-11 12:03:50  
Local clock offset: 0.802 ms  
Remote clock offset: -1.174 ms

# Below is generated by plot.py at 2017-08-11 15:58:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 112.54 Mbit/s  
95th percentile per-packet one-way delay: 19.043 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.39 Mbit/s  
95th percentile per-packet one-way delay: 19.050 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 59.99 Mbit/s  
95th percentile per-packet one-way delay: 19.039 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 48.58 Mbit/s  
95th percentile per-packet one-way delay: 19.025 ms  
Loss rate: 0.00%

## Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-08-11 12:25:05

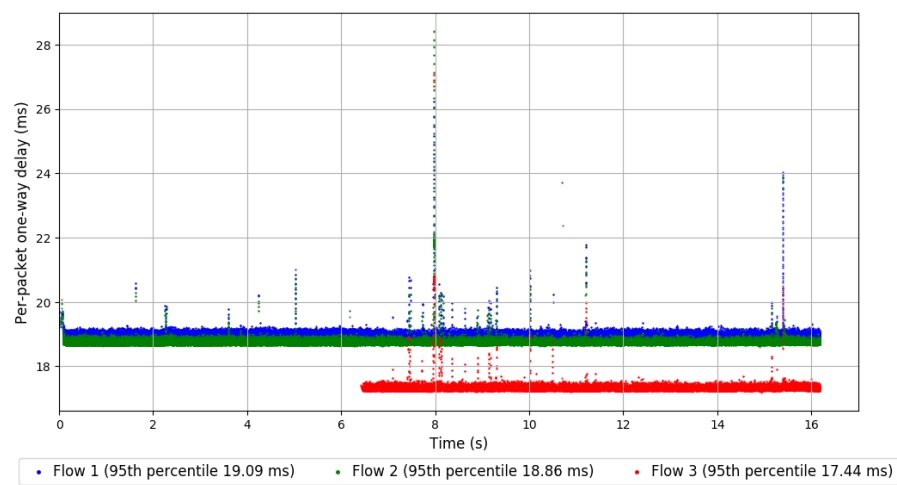
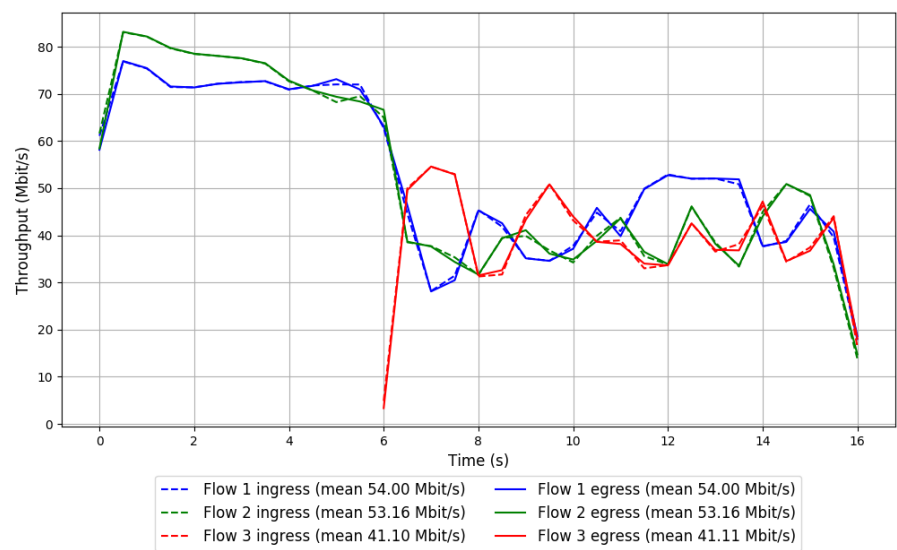
End at: 2017-08-11 12:25:35

Local clock offset: 0.779 ms

Remote clock offset: -1.454 ms



Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-08-11 12:46:39

End at: 2017-08-11 12:47:09

Local clock offset: 0.735 ms

Remote clock offset: -1.68 ms

# Below is generated by plot.py at 2017-08-11 15:59:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 118.38 Mbit/s

95th percentile per-packet one-way delay: 19.004 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 19.007 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.16 Mbit/s

95th percentile per-packet one-way delay: 19.015 ms

Loss rate: 0.00%

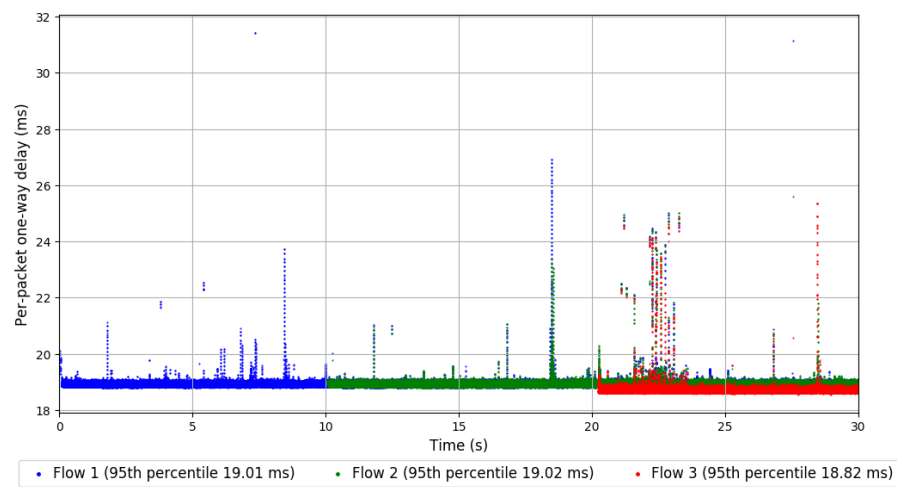
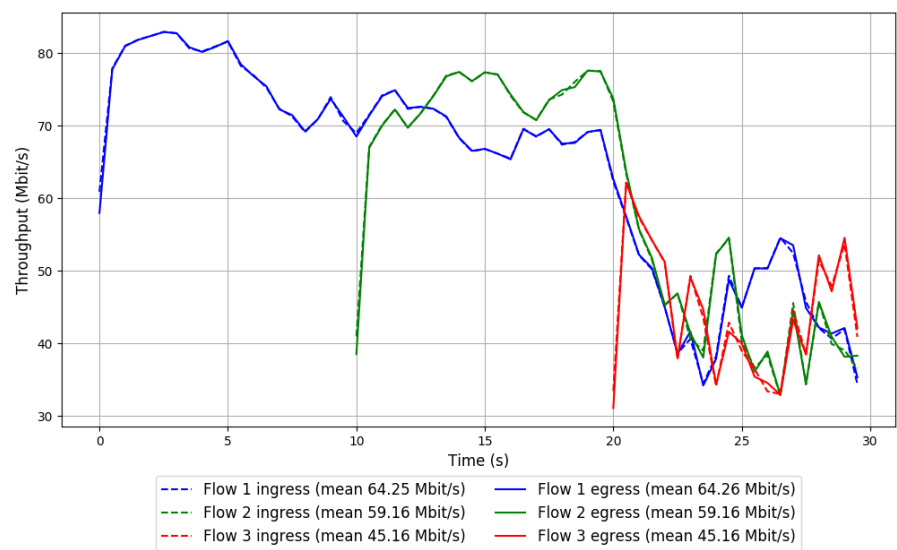
-- Flow 3:

Average throughput: 45.16 Mbit/s

95th percentile per-packet one-way delay: 18.817 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

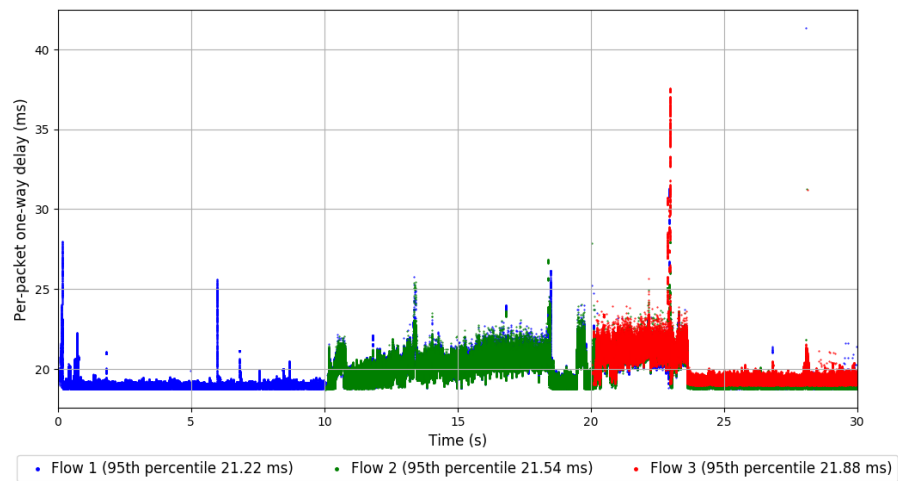
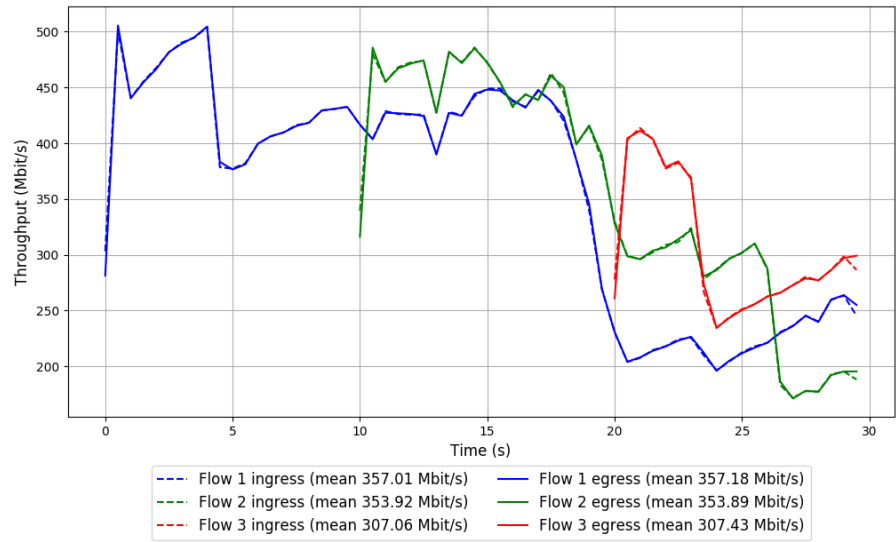


Run 1: Statistics of TCP Cubic

Start at: 2017-08-11 09:19:20  
End at: 2017-08-11 09:19:50  
Local clock offset: 0.255 ms  
Remote clock offset: -0.496 ms

# Below is generated by plot.py at 2017-08-11 16:00:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 694.75 Mbit/s  
95th percentile per-packet one-way delay: 21.531 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 357.18 Mbit/s  
95th percentile per-packet one-way delay: 21.224 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 353.89 Mbit/s  
95th percentile per-packet one-way delay: 21.535 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 307.43 Mbit/s  
95th percentile per-packet one-way delay: 21.884 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Cubic — Data Link

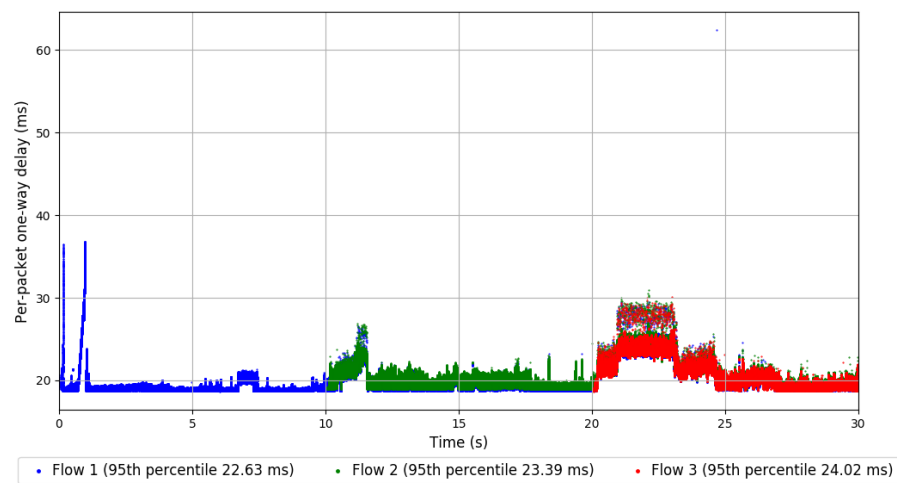
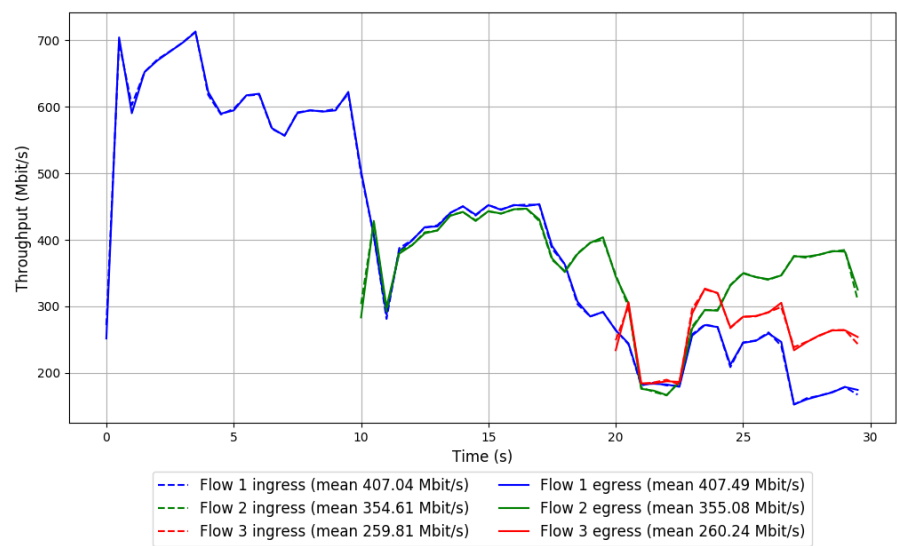


Run 2: Statistics of TCP Cubic

Start at: 2017-08-11 09:40:50  
End at: 2017-08-11 09:41:20  
Local clock offset: 0.387 ms  
Remote clock offset: -0.742 ms

# Below is generated by plot.py at 2017-08-11 16:00:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 730.14 Mbit/s  
95th percentile per-packet one-way delay: 23.357 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 407.49 Mbit/s  
95th percentile per-packet one-way delay: 22.631 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 355.08 Mbit/s  
95th percentile per-packet one-way delay: 23.387 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 260.24 Mbit/s  
95th percentile per-packet one-way delay: 24.021 ms  
Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



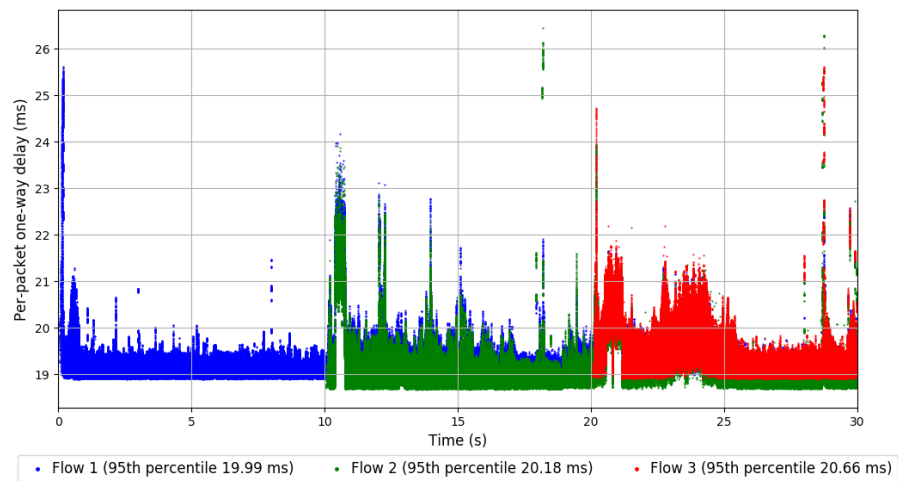
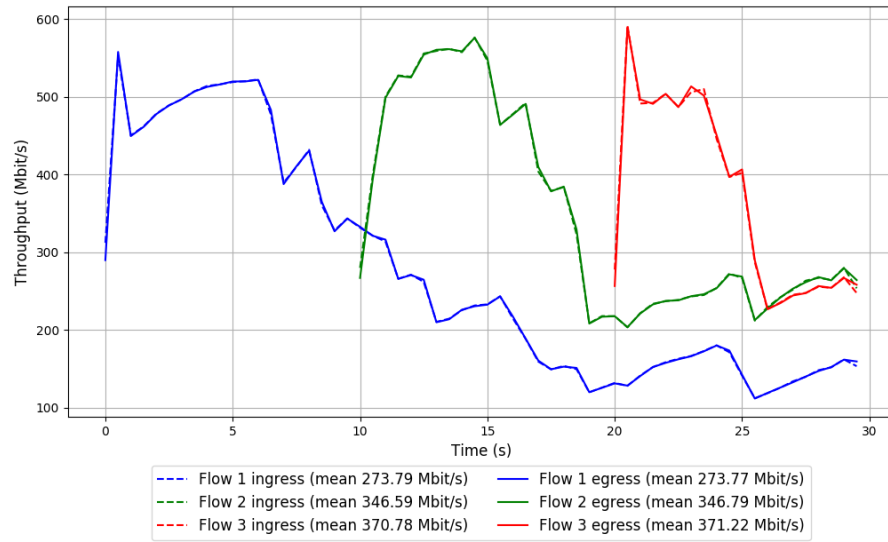
Run 3: Statistics of TCP Cubic

Start at: 2017-08-11 10:02:18  
End at: 2017-08-11 10:02:48  
Local clock offset: 0.367 ms  
Remote clock offset: -1.069 ms

# Below is generated by plot.py at 2017-08-11 16:01:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 627.54 Mbit/s  
95th percentile per-packet one-way delay: 20.339 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 273.77 Mbit/s  
95th percentile per-packet one-way delay: 19.994 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 346.79 Mbit/s  
95th percentile per-packet one-way delay: 20.176 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 371.22 Mbit/s  
95th percentile per-packet one-way delay: 20.660 ms  
Loss rate: 0.00%



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

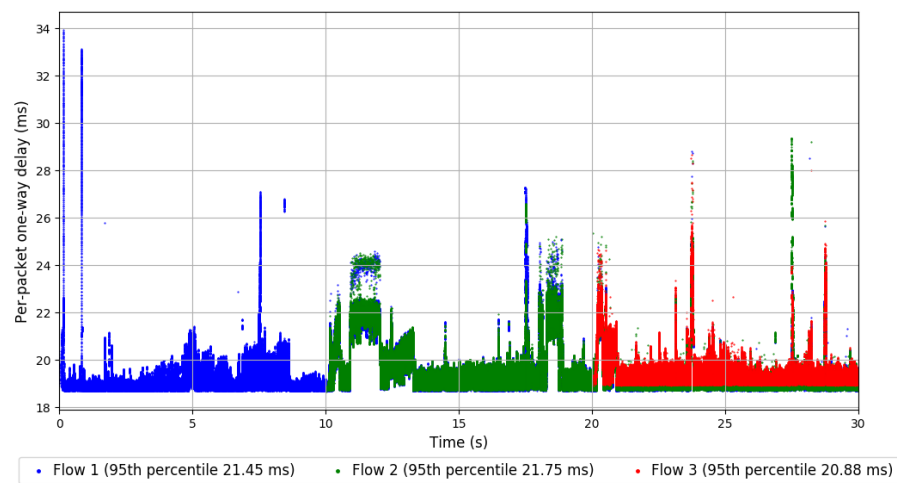
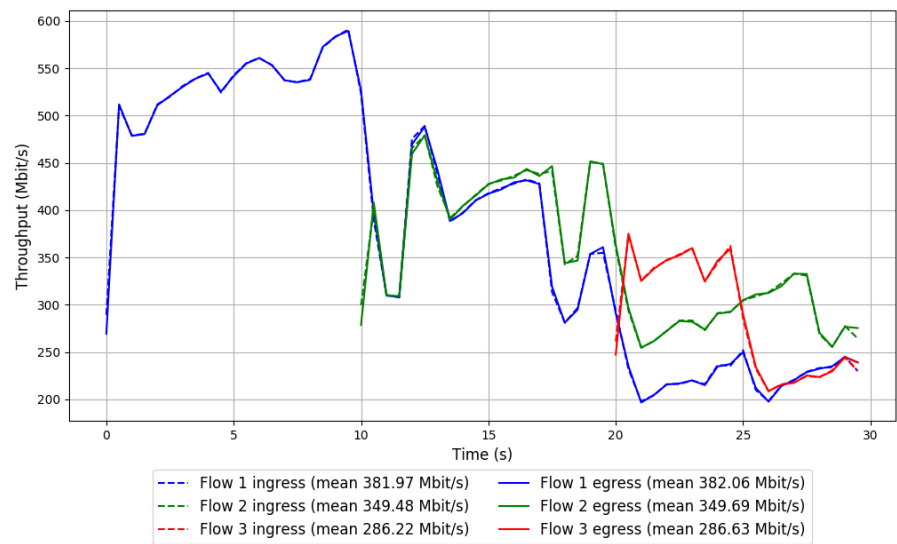


Run 4: Statistics of TCP Cubic

Start at: 2017-08-11 10:23:56  
End at: 2017-08-11 10:24:26  
Local clock offset: 0.405 ms  
Remote clock offset: -1.174 ms

# Below is generated by plot.py at 2017-08-11 16:01:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 710.11 Mbit/s  
95th percentile per-packet one-way delay: 21.577 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 382.06 Mbit/s  
95th percentile per-packet one-way delay: 21.447 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 349.69 Mbit/s  
95th percentile per-packet one-way delay: 21.748 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 286.63 Mbit/s  
95th percentile per-packet one-way delay: 20.880 ms  
Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link

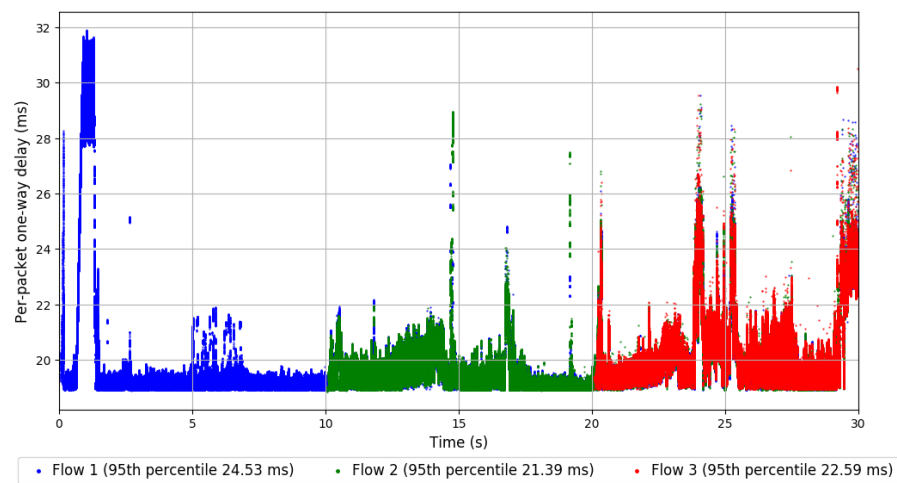
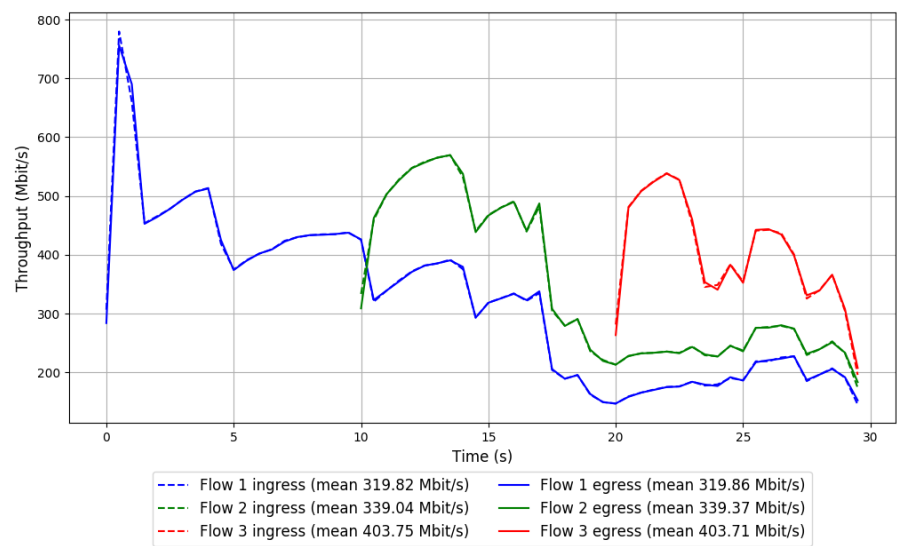


Run 5: Statistics of TCP Cubic

Start at: 2017-08-11 10:45:38  
End at: 2017-08-11 10:46:08  
Local clock offset: 0.474 ms  
Remote clock offset: -1.268 ms

# Below is generated by plot.py at 2017-08-11 16:02:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 679.07 Mbit/s  
95th percentile per-packet one-way delay: 22.776 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 319.86 Mbit/s  
95th percentile per-packet one-way delay: 24.529 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 339.37 Mbit/s  
95th percentile per-packet one-way delay: 21.391 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 403.71 Mbit/s  
95th percentile per-packet one-way delay: 22.588 ms  
Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link

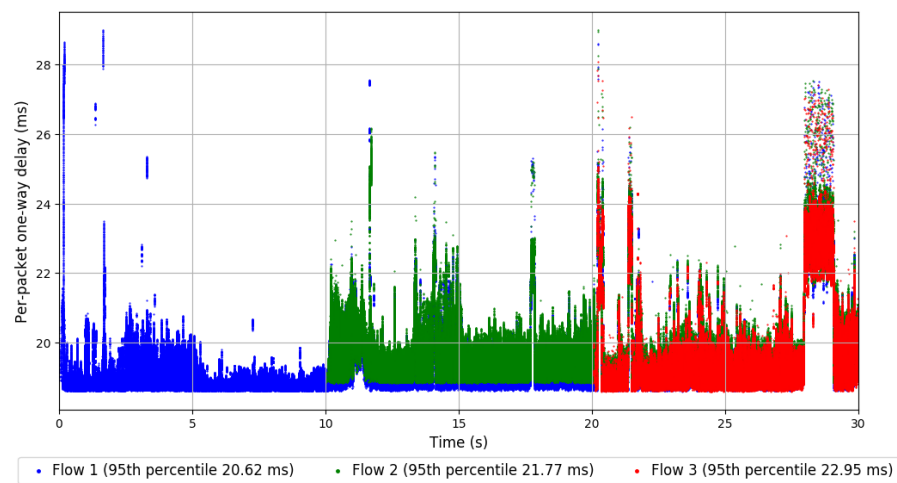
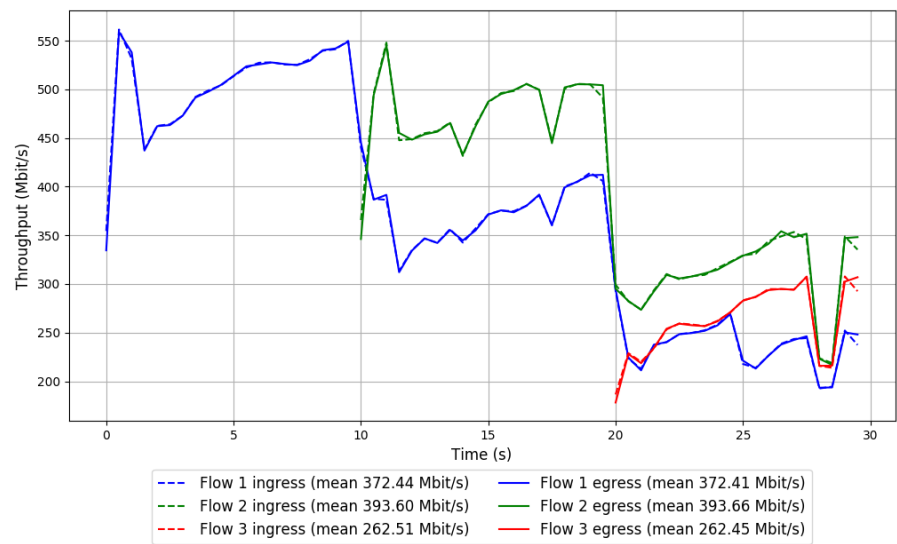


Run 6: Statistics of TCP Cubic

Start at: 2017-08-11 11:06:58  
End at: 2017-08-11 11:07:28  
Local clock offset: 0.613 ms  
Remote clock offset: -1.229 ms

# Below is generated by plot.py at 2017-08-11 16:03:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 721.62 Mbit/s  
95th percentile per-packet one-way delay: 21.612 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 372.41 Mbit/s  
95th percentile per-packet one-way delay: 20.620 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 393.66 Mbit/s  
95th percentile per-packet one-way delay: 21.769 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 262.45 Mbit/s  
95th percentile per-packet one-way delay: 22.954 ms  
Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



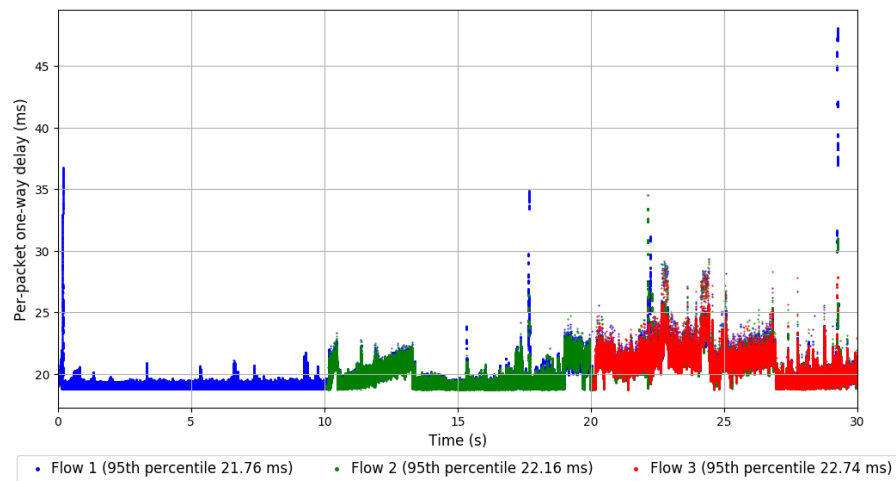
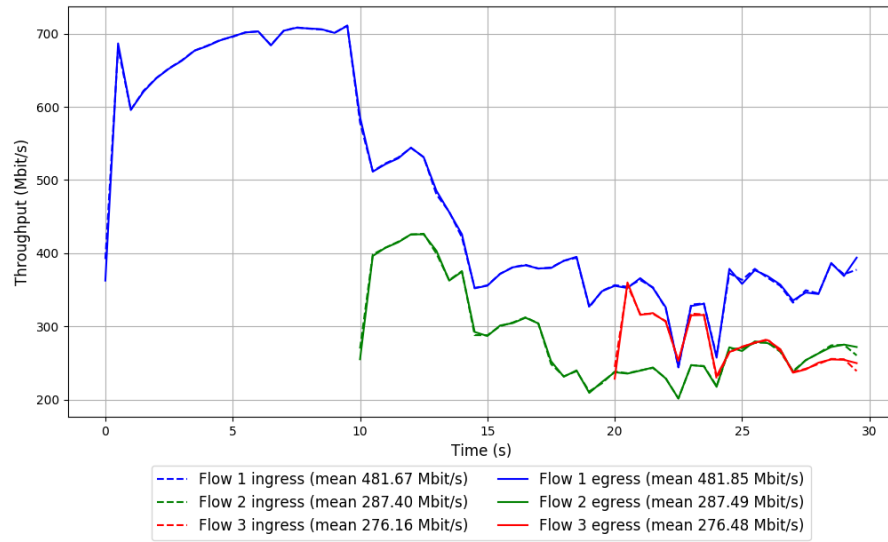
Run 7: Statistics of TCP Cubic

Start at: 2017-08-11 11:28:44  
End at: 2017-08-11 11:29:14  
Local clock offset: 0.58 ms  
Remote clock offset: -1.136 ms

# Below is generated by plot.py at 2017-08-11 16:04:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 764.94 Mbit/s  
95th percentile per-packet one-way delay: 22.022 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 481.85 Mbit/s  
95th percentile per-packet one-way delay: 21.759 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 287.49 Mbit/s  
95th percentile per-packet one-way delay: 22.158 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 276.48 Mbit/s  
95th percentile per-packet one-way delay: 22.741 ms  
Loss rate: 0.01%



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

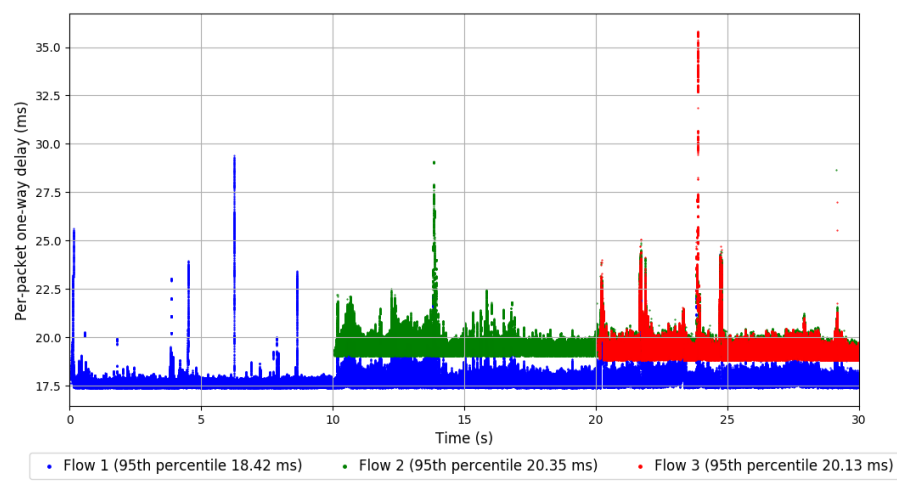
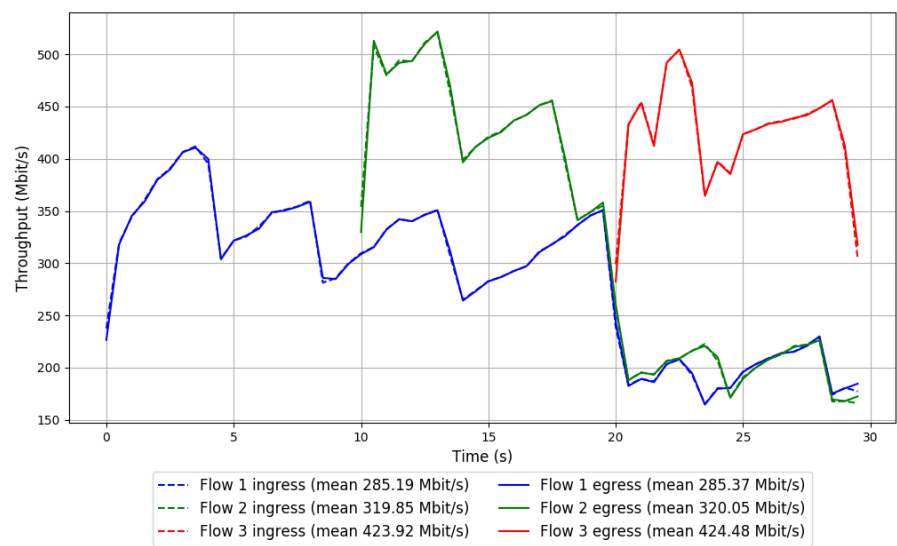


Run 8: Statistics of TCP Cubic

Start at: 2017-08-11 11:50:09  
End at: 2017-08-11 11:50:39  
Local clock offset: 0.756 ms  
Remote clock offset: -1.091 ms

# Below is generated by plot.py at 2017-08-11 16:04:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 639.07 Mbit/s  
95th percentile per-packet one-way delay: 20.021 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 285.37 Mbit/s  
95th percentile per-packet one-way delay: 18.422 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 320.05 Mbit/s  
95th percentile per-packet one-way delay: 20.348 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 424.48 Mbit/s  
95th percentile per-packet one-way delay: 20.131 ms  
Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link

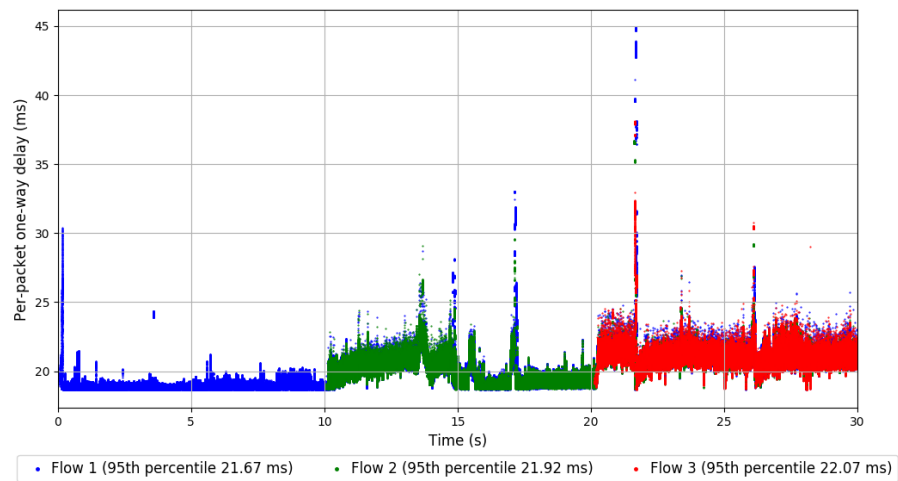
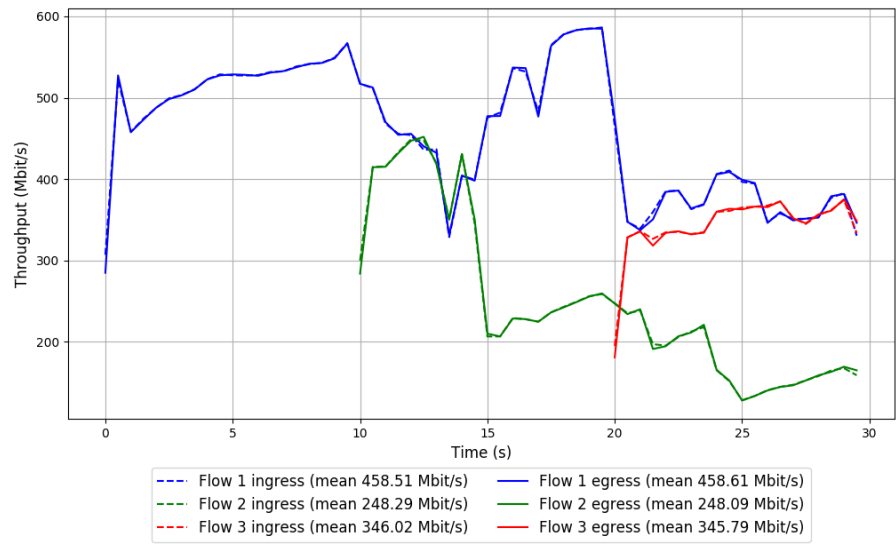


Run 9: Statistics of TCP Cubic

Start at: 2017-08-11 12:11:47  
End at: 2017-08-11 12:12:17  
Local clock offset: 0.792 ms  
Remote clock offset: -1.181 ms

# Below is generated by plot.py at 2017-08-11 16:06:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 737.81 Mbit/s  
95th percentile per-packet one-way delay: 21.835 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 458.61 Mbit/s  
95th percentile per-packet one-way delay: 21.673 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 248.09 Mbit/s  
95th percentile per-packet one-way delay: 21.919 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 345.79 Mbit/s  
95th percentile per-packet one-way delay: 22.075 ms  
Loss rate: 0.13%

# Run 9: Report of TCP Cubic — Data Link

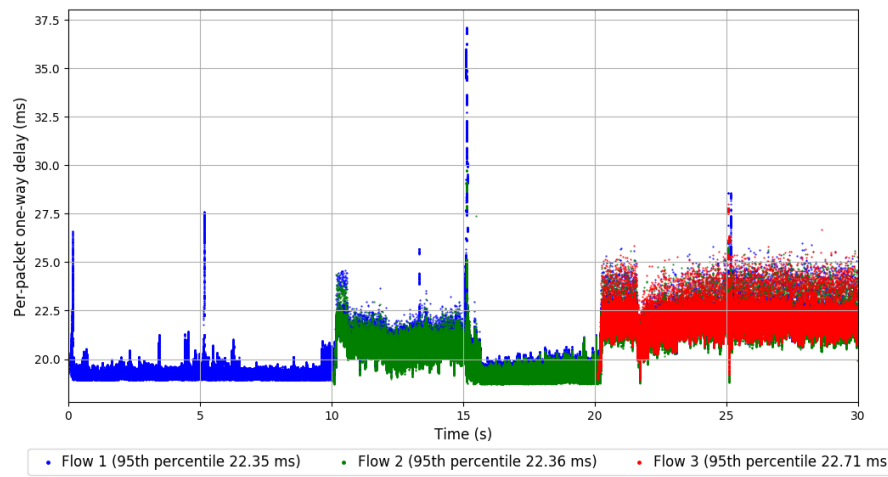
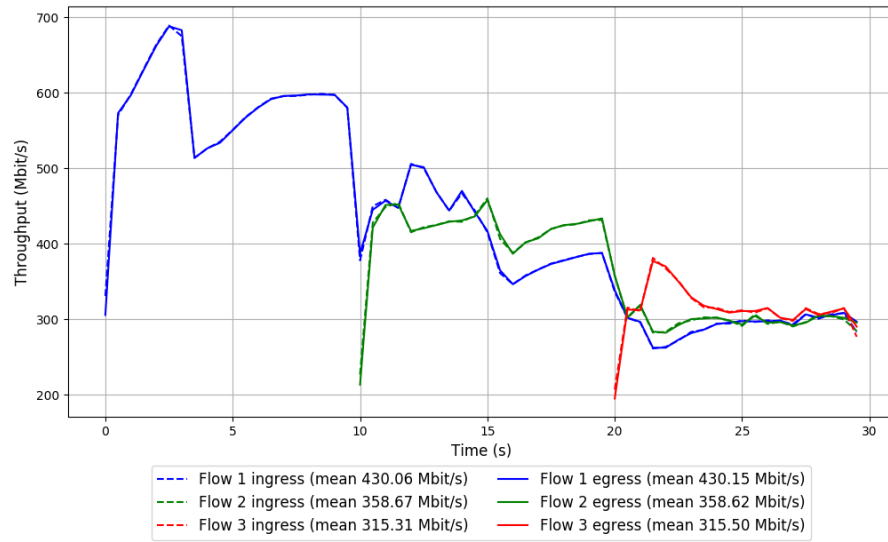


Run 10: Statistics of TCP Cubic

Start at: 2017-08-11 12:33:28  
End at: 2017-08-11 12:33:58  
Local clock offset: 0.665 ms  
Remote clock offset: -1.555 ms

# Below is generated by plot.py at 2017-08-11 16:06:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 773.34 Mbit/s  
95th percentile per-packet one-way delay: 22.448 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 430.15 Mbit/s  
95th percentile per-packet one-way delay: 22.347 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 358.62 Mbit/s  
95th percentile per-packet one-way delay: 22.365 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 315.50 Mbit/s  
95th percentile per-packet one-way delay: 22.709 ms  
Loss rate: 0.00%

# Run 10: Report of TCP Cubic — Data Link



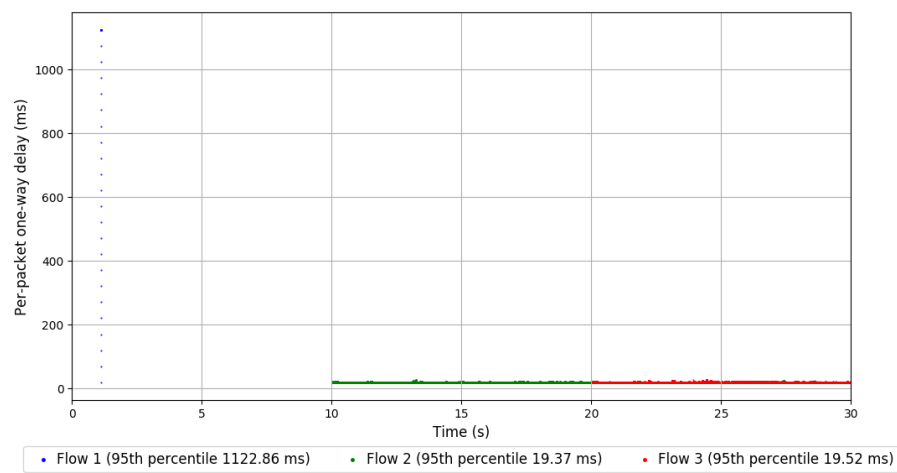
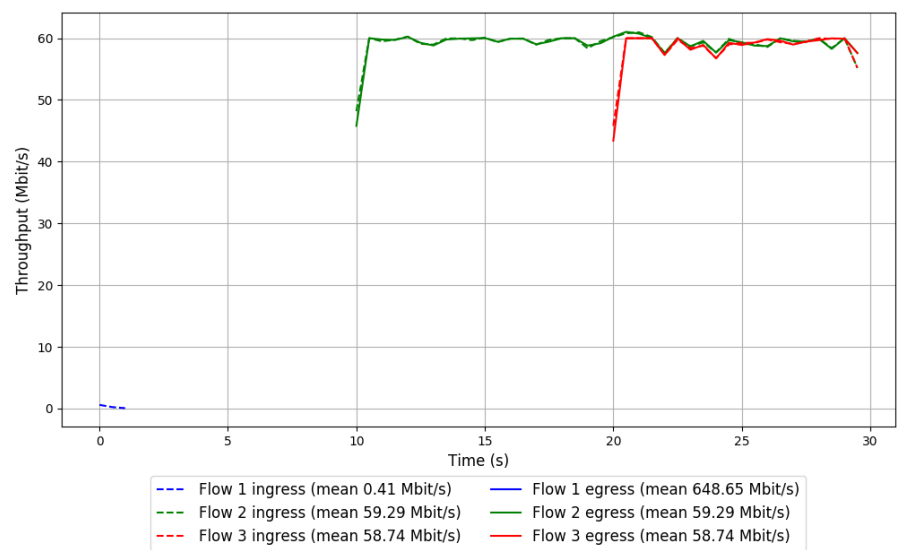
```
Run 1: Statistics of KohoCC

Start at: 2017-08-11 09:16:36
End at: 2017-08-11 09:17:06
Local clock offset: 0.244 ms
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2017-08-11 16:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 19.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 648.65 Mbit/s
95th percentile per-packet one-way delay: 1122.857 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.29 Mbit/s
95th percentile per-packet one-way delay: 19.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.74 Mbit/s
95th percentile per-packet one-way delay: 19.523 ms
Loss rate: 0.00%
```



Run 1: Report of KohoCC — Data Link

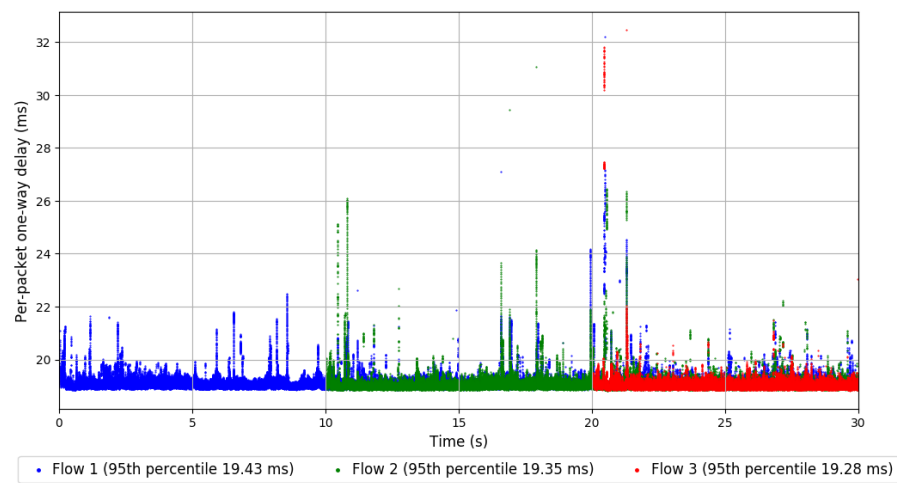
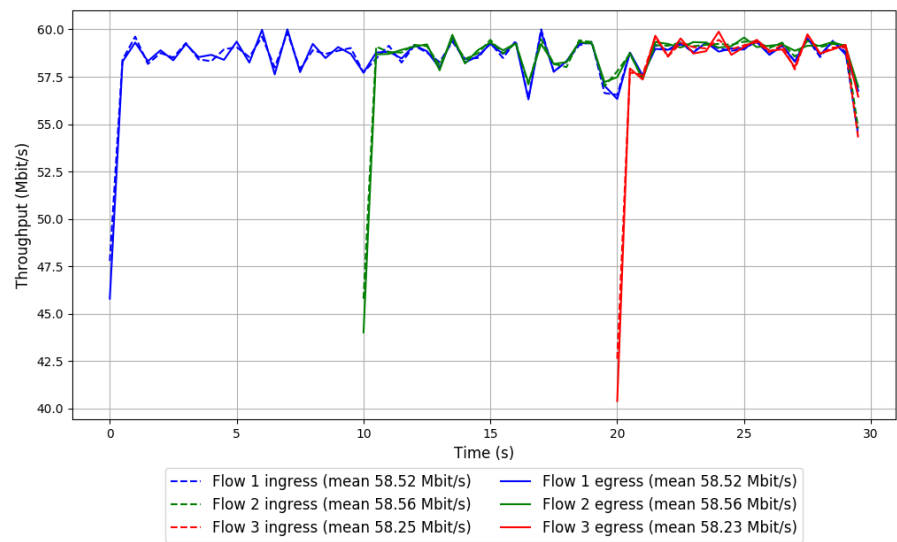


Run 2: Statistics of KohoCC

Start at: 2017-08-11 09:37:58  
End at: 2017-08-11 09:38:28  
Local clock offset: 0.351 ms  
Remote clock offset: -0.796 ms

# Below is generated by plot.py at 2017-08-11 16:06:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 116.81 Mbit/s  
95th percentile per-packet one-way delay: 19.382 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.52 Mbit/s  
95th percentile per-packet one-way delay: 19.434 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.56 Mbit/s  
95th percentile per-packet one-way delay: 19.351 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 58.23 Mbit/s  
95th percentile per-packet one-way delay: 19.281 ms  
Loss rate: 0.00%

Run 2: Report of KohoCC — Data Link

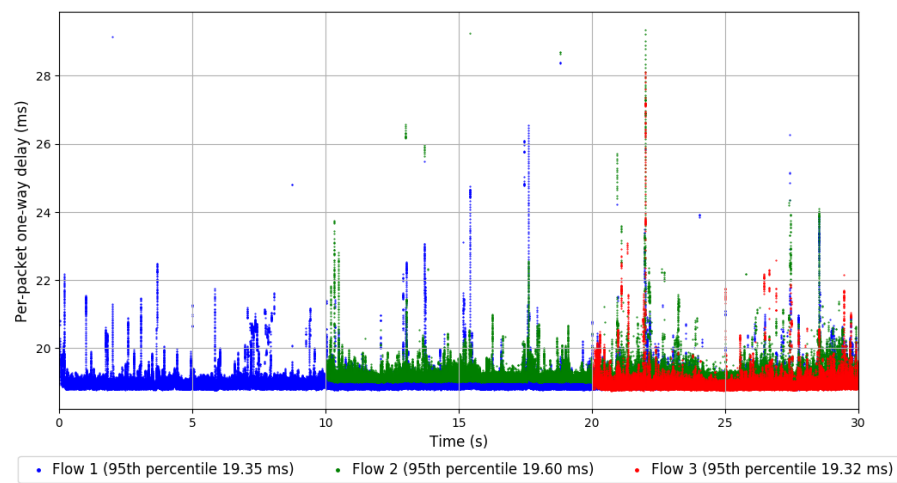
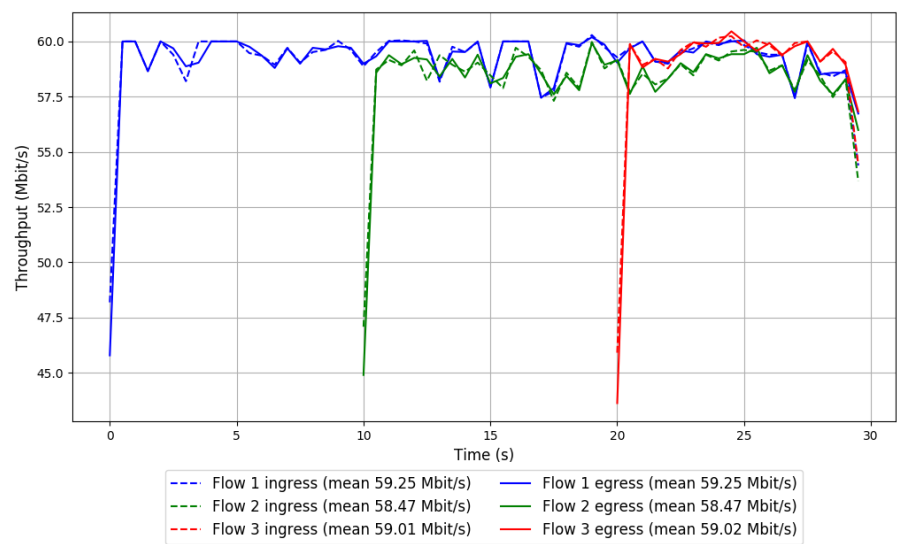


Run 3: Statistics of KohoCC

Start at: 2017-08-11 09:59:31  
End at: 2017-08-11 10:00:01  
Local clock offset: 0.37 ms  
Remote clock offset: -0.916 ms

# Below is generated by plot.py at 2017-08-11 16:06:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.77 Mbit/s  
95th percentile per-packet one-way delay: 19.469 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.25 Mbit/s  
95th percentile per-packet one-way delay: 19.349 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.47 Mbit/s  
95th percentile per-packet one-way delay: 19.601 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 59.02 Mbit/s  
95th percentile per-packet one-way delay: 19.318 ms  
Loss rate: 0.00%

Run 3: Report of KohoCC — Data Link

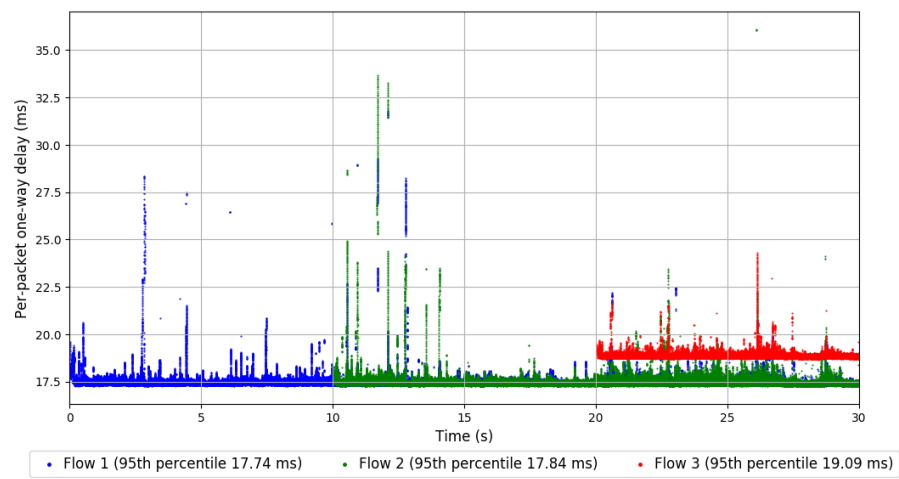
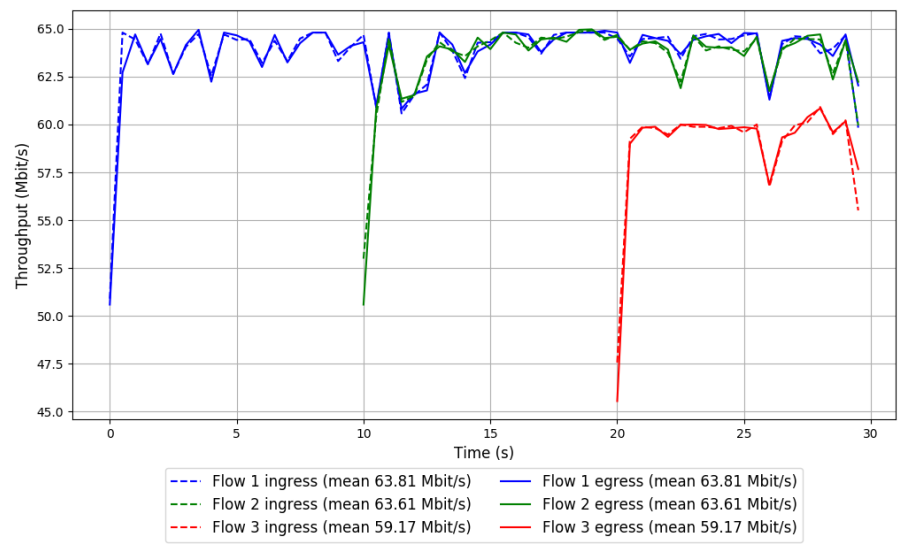


Run 4: Statistics of KohoCC

Start at: 2017-08-11 10:21:06  
End at: 2017-08-11 10:21:36  
Local clock offset: 0.398 ms  
Remote clock offset: -1.163 ms

# Below is generated by plot.py at 2017-08-11 16:06:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 125.83 Mbit/s  
95th percentile per-packet one-way delay: 18.896 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.81 Mbit/s  
95th percentile per-packet one-way delay: 17.744 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 63.61 Mbit/s  
95th percentile per-packet one-way delay: 17.837 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 59.17 Mbit/s  
95th percentile per-packet one-way delay: 19.089 ms  
Loss rate: 0.00%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-11 10:42:47

End at: 2017-08-11 10:43:17

Local clock offset: 0.555 ms

Remote clock offset: -1.21 ms

# Below is generated by plot.py at 2017-08-11 16:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 118.20 Mbit/s

95th percentile per-packet one-way delay: 19.261 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.40 Mbit/s

95th percentile per-packet one-way delay: 19.211 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 19.377 ms

Loss rate: 0.00%

-- Flow 3:

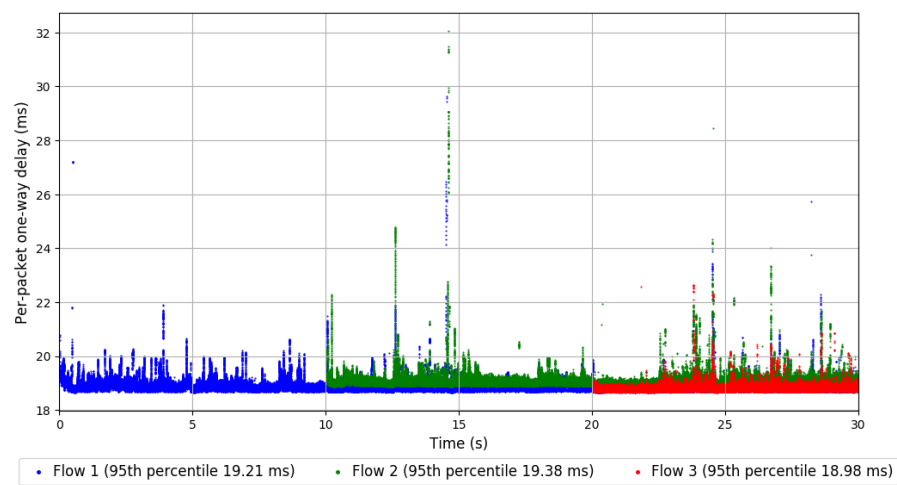
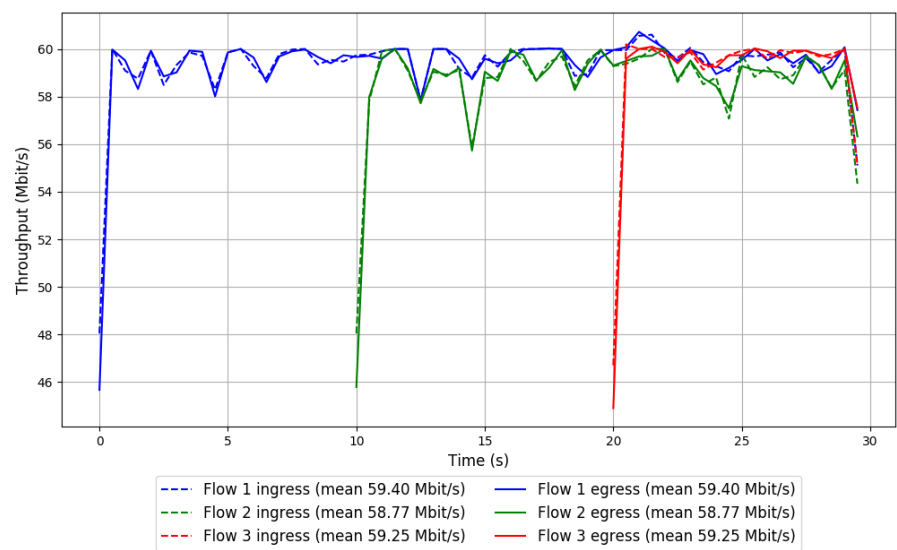
Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 18.981 ms

Loss rate: 0.00%



Run 5: Report of KohoCC — Data Link

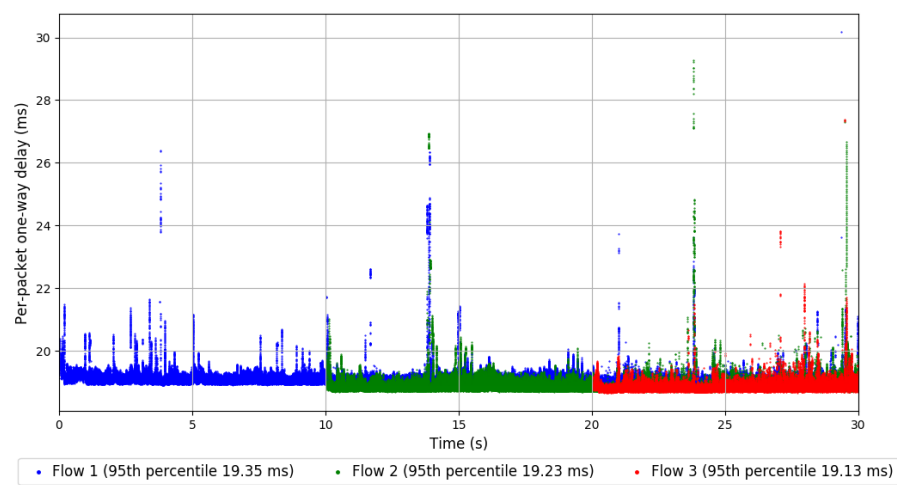
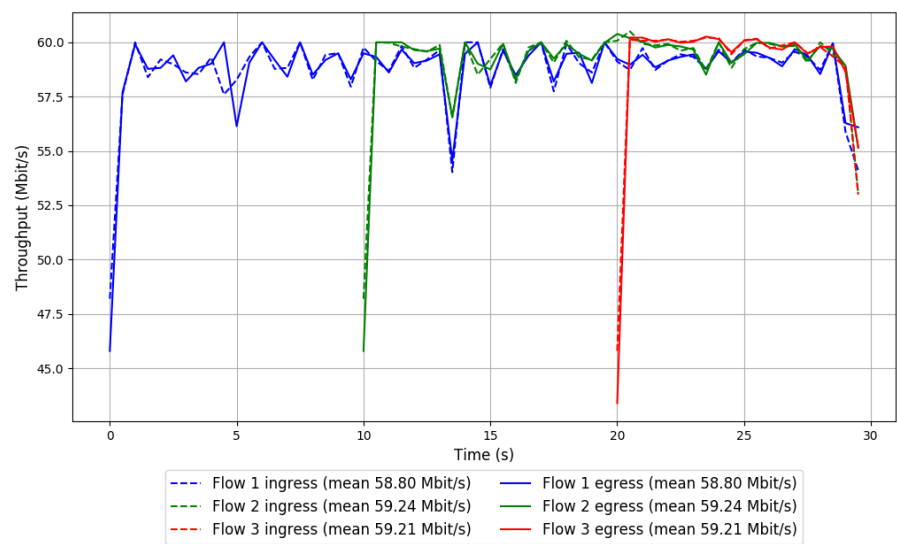


Run 6: Statistics of KohoCC

Start at: 2017-08-11 11:04:11  
End at: 2017-08-11 11:04:41  
Local clock offset: 0.535 ms  
Remote clock offset: -1.263 ms

# Below is generated by plot.py at 2017-08-11 16:07:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.88 Mbit/s  
95th percentile per-packet one-way delay: 19.306 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.80 Mbit/s  
95th percentile per-packet one-way delay: 19.352 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 59.24 Mbit/s  
95th percentile per-packet one-way delay: 19.229 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 59.21 Mbit/s  
95th percentile per-packet one-way delay: 19.132 ms  
Loss rate: 0.00%

Run 6: Report of KohoCC — Data Link

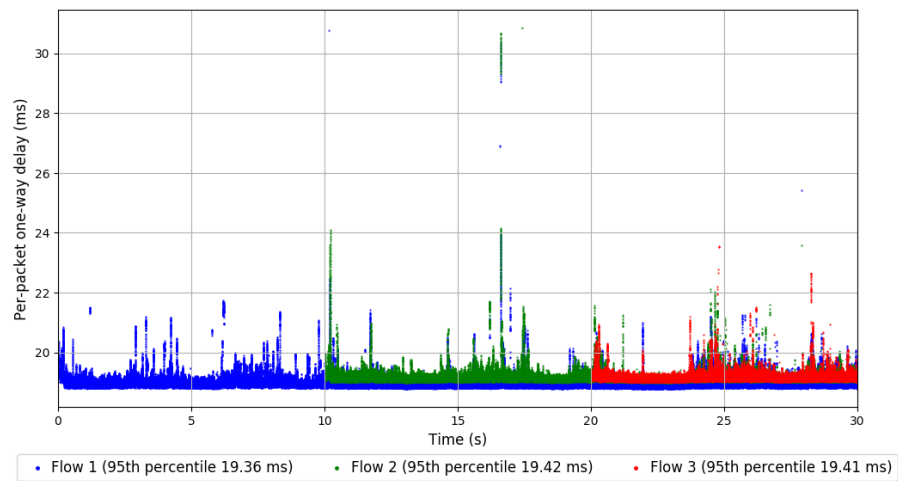
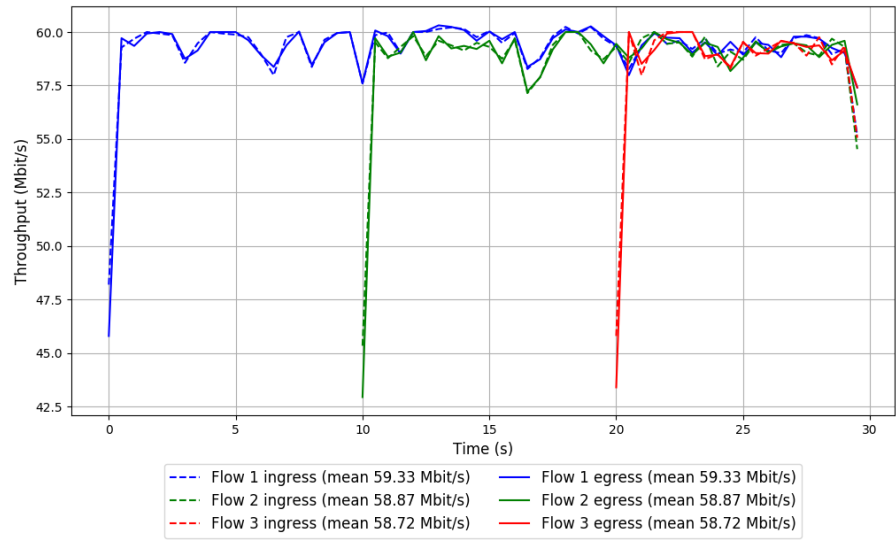


Run 7: Statistics of KohoCC

Start at: 2017-08-11 11:25:54  
End at: 2017-08-11 11:26:24  
Local clock offset: 0.564 ms  
Remote clock offset: -1.111 ms

# Below is generated by plot.py at 2017-08-11 16:07:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 118.02 Mbit/s  
95th percentile per-packet one-way delay: 19.397 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.33 Mbit/s  
95th percentile per-packet one-way delay: 19.365 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.87 Mbit/s  
95th percentile per-packet one-way delay: 19.420 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 58.72 Mbit/s  
95th percentile per-packet one-way delay: 19.410 ms  
Loss rate: 0.00%

## Run 7: Report of KohoCC — Data Link

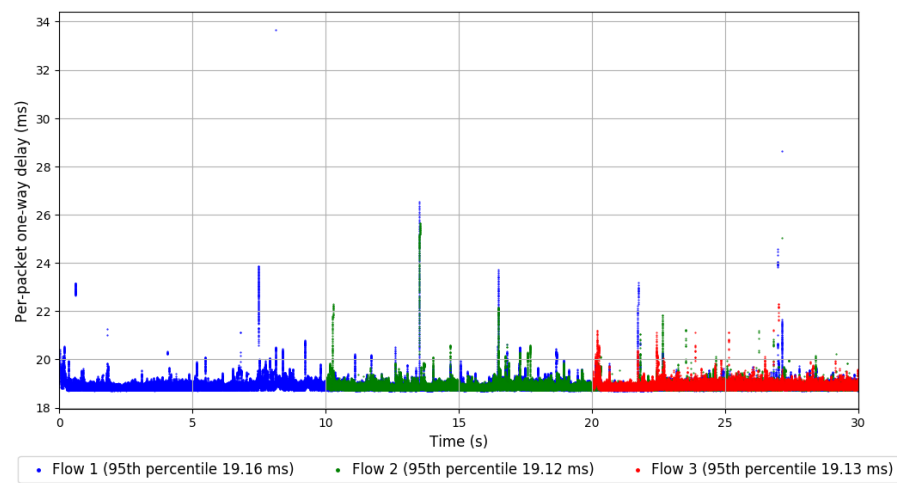
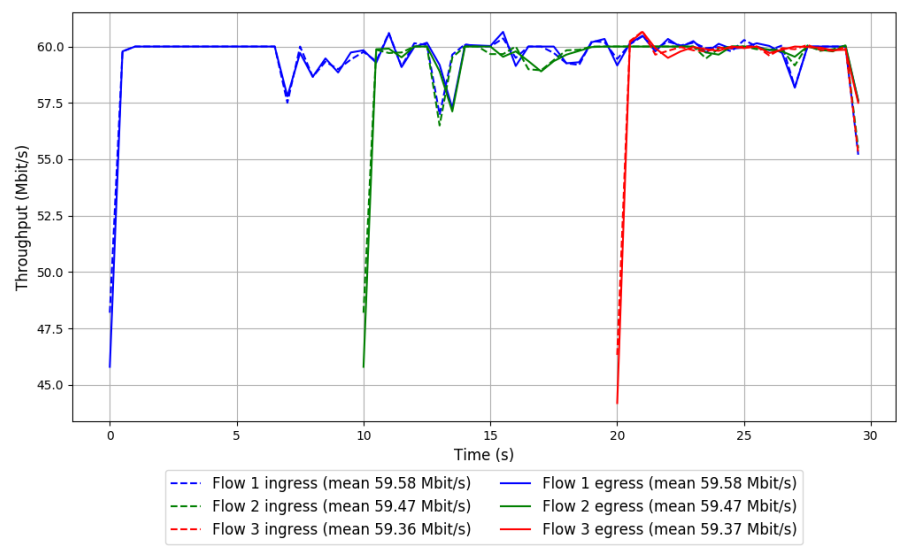


Run 8: Statistics of KohoCC

Start at: 2017-08-11 11:47:21  
End at: 2017-08-11 11:47:51  
Local clock offset: 0.705 ms  
Remote clock offset: -1.178 ms

# Below is generated by plot.py at 2017-08-11 16:07:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 118.88 Mbit/s  
95th percentile per-packet one-way delay: 19.142 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.58 Mbit/s  
95th percentile per-packet one-way delay: 19.162 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 59.47 Mbit/s  
95th percentile per-packet one-way delay: 19.117 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 59.37 Mbit/s  
95th percentile per-packet one-way delay: 19.129 ms  
Loss rate: 0.00%

Run 8: Report of KohoCC — Data Link



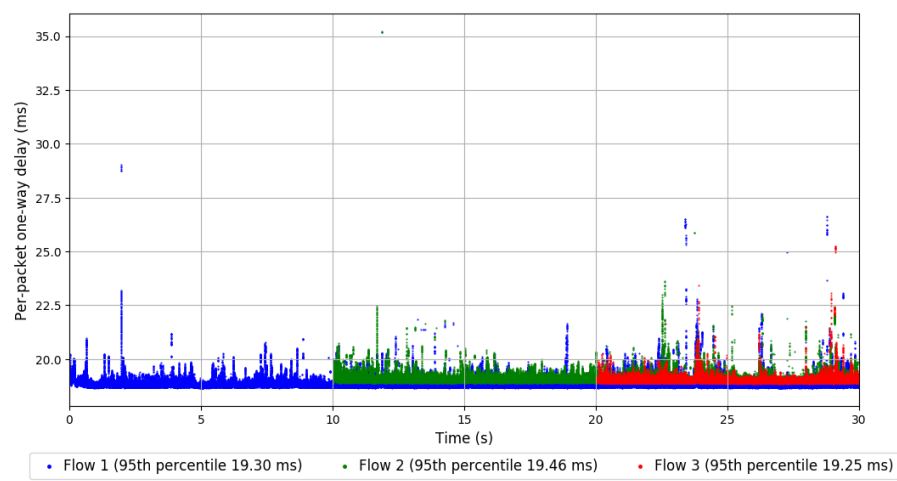
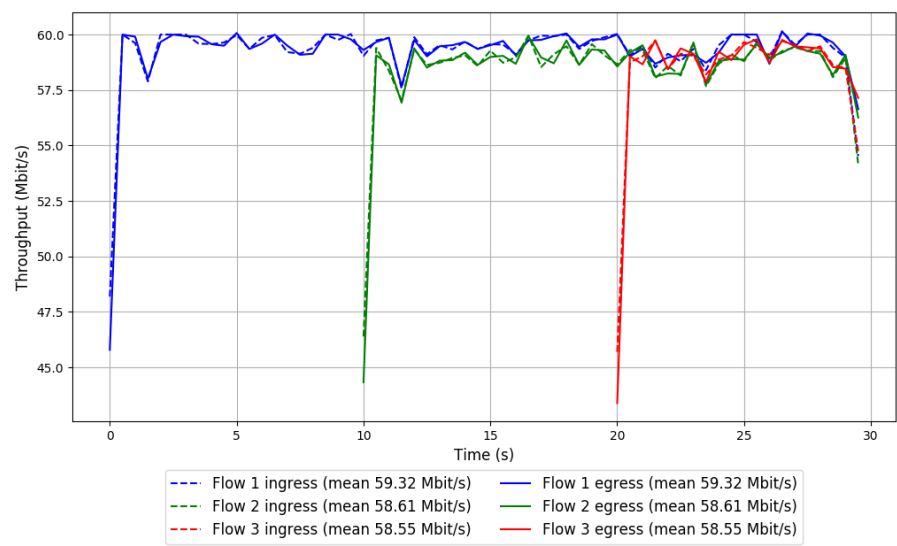
Run 9: Statistics of KohoCC

Start at: 2017-08-11 12:08:58  
End at: 2017-08-11 12:09:28  
Local clock offset: 0.8 ms  
Remote clock offset: -1.197 ms

# Below is generated by plot.py at 2017-08-11 16:07:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.77 Mbit/s  
95th percentile per-packet one-way delay: 19.356 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.32 Mbit/s  
95th percentile per-packet one-way delay: 19.300 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.61 Mbit/s  
95th percentile per-packet one-way delay: 19.460 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 58.55 Mbit/s  
95th percentile per-packet one-way delay: 19.247 ms  
Loss rate: 0.00%



Run 9: Report of KohoCC — Data Link

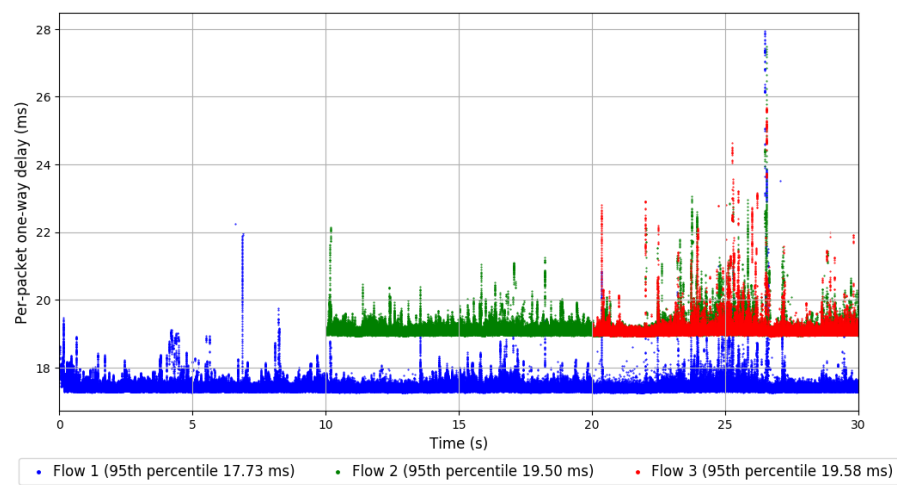
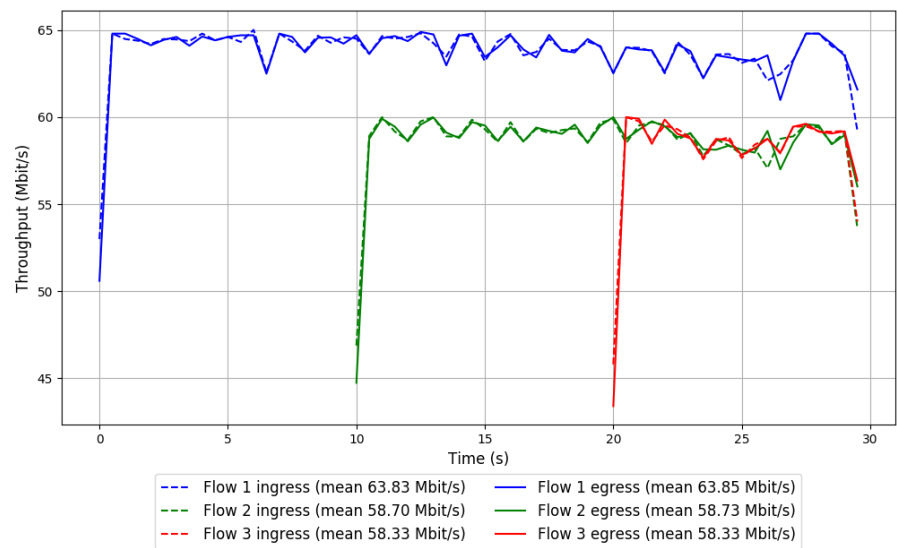


Run 10: Statistics of KohoCC

Start at: 2017-08-11 12:30:36  
End at: 2017-08-11 12:31:06  
Local clock offset: 0.773 ms  
Remote clock offset: -1.436 ms

# Below is generated by plot.py at 2017-08-11 16:07:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 122.31 Mbit/s  
95th percentile per-packet one-way delay: 19.312 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.85 Mbit/s  
95th percentile per-packet one-way delay: 17.735 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.73 Mbit/s  
95th percentile per-packet one-way delay: 19.500 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 58.33 Mbit/s  
95th percentile per-packet one-way delay: 19.584 ms  
Loss rate: 0.00%

Run 10: Report of KohoCC — Data Link

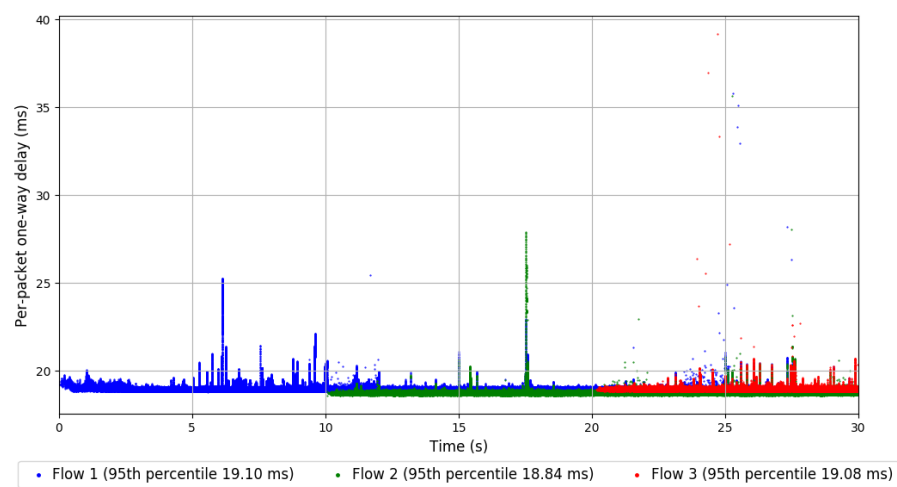
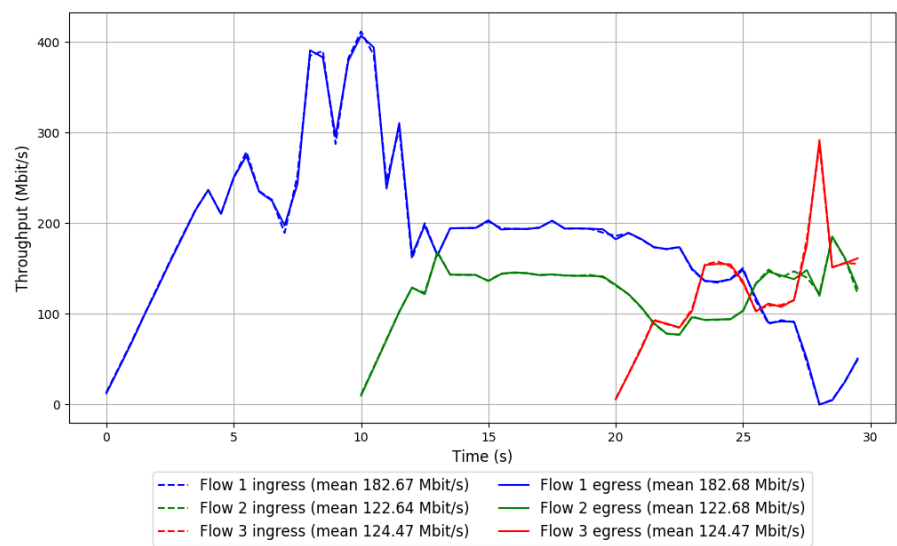


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-11 09:22:16
End at: 2017-08-11 09:22:46
Local clock offset: 0.369 ms
Remote clock offset: -0.557 ms

# Below is generated by plot.py at 2017-08-11 16:08:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.97 Mbit/s
95th percentile per-packet one-way delay: 19.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.68 Mbit/s
95th percentile per-packet one-way delay: 19.103 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 122.68 Mbit/s
95th percentile per-packet one-way delay: 18.836 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 124.47 Mbit/s
95th percentile per-packet one-way delay: 19.084 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

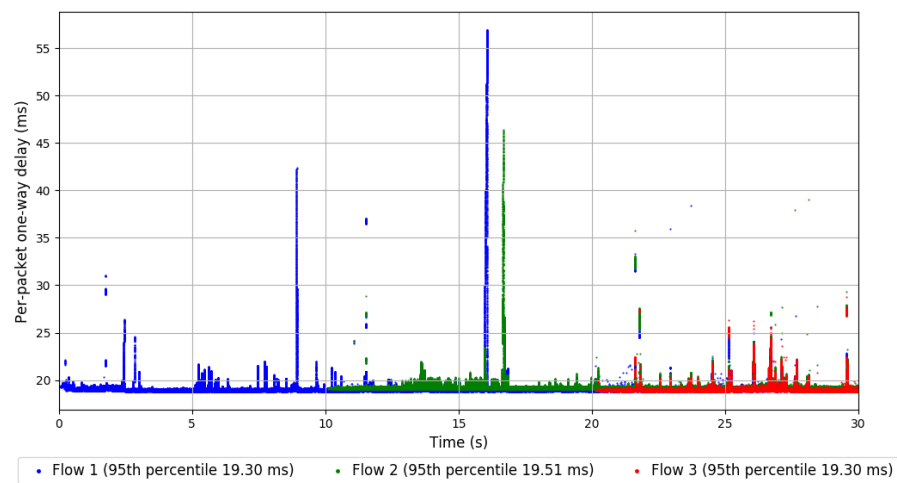
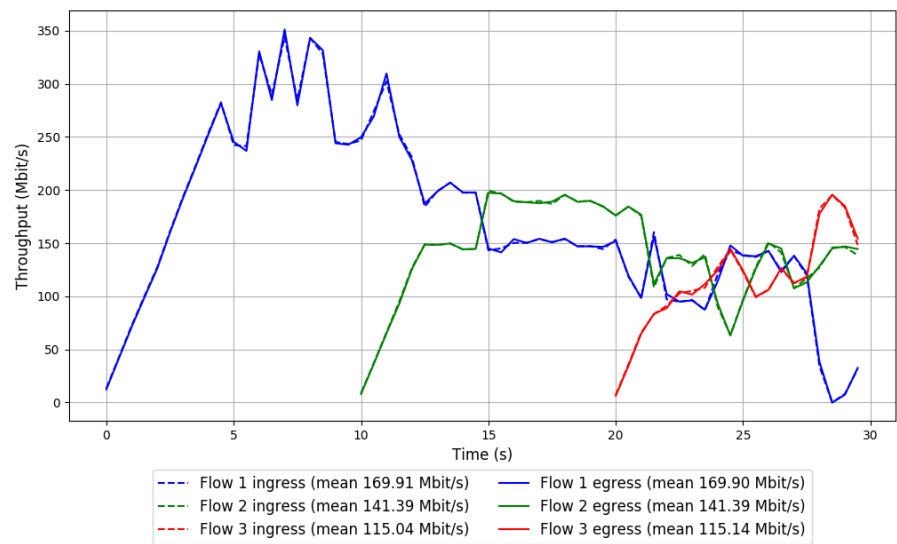


Run 2: Statistics of LEDBAT

Start at: 2017-08-11 09:43:47  
End at: 2017-08-11 09:44:17  
Local clock offset: 0.302 ms  
Remote clock offset: -0.727 ms

# Below is generated by plot.py at 2017-08-11 16:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 301.43 Mbit/s  
95th percentile per-packet one-way delay: 19.382 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 169.90 Mbit/s  
95th percentile per-packet one-way delay: 19.296 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 141.39 Mbit/s  
95th percentile per-packet one-way delay: 19.512 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 115.14 Mbit/s  
95th percentile per-packet one-way delay: 19.299 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



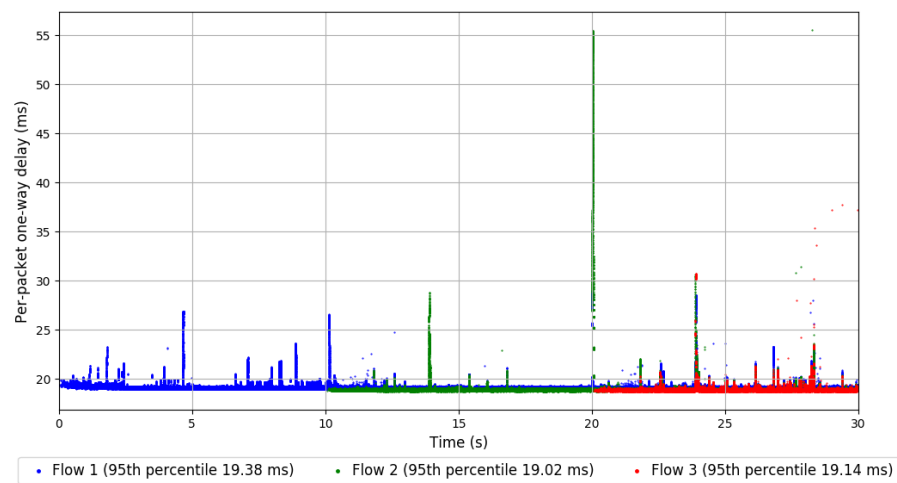
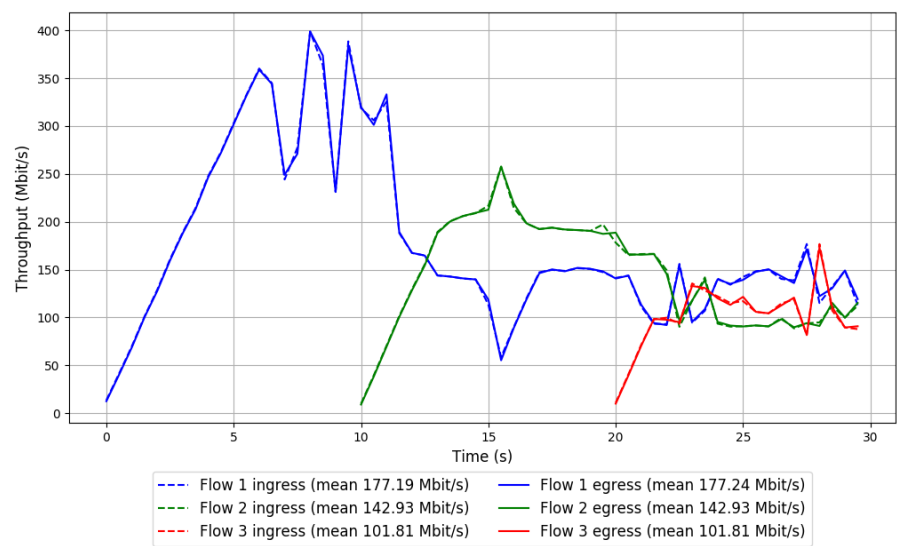
Run 3: Statistics of LEDBAT

Start at: 2017-08-11 10:05:10  
End at: 2017-08-11 10:05:40  
Local clock offset: 0.368 ms  
Remote clock offset: -1.076 ms

# Below is generated by plot.py at 2017-08-11 16:08:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 305.81 Mbit/s  
95th percentile per-packet one-way delay: 19.297 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 177.24 Mbit/s  
95th percentile per-packet one-way delay: 19.382 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 142.93 Mbit/s  
95th percentile per-packet one-way delay: 19.015 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 101.81 Mbit/s  
95th percentile per-packet one-way delay: 19.142 ms  
Loss rate: 0.00%



Run 3: Report of LEDBAT — Data Link

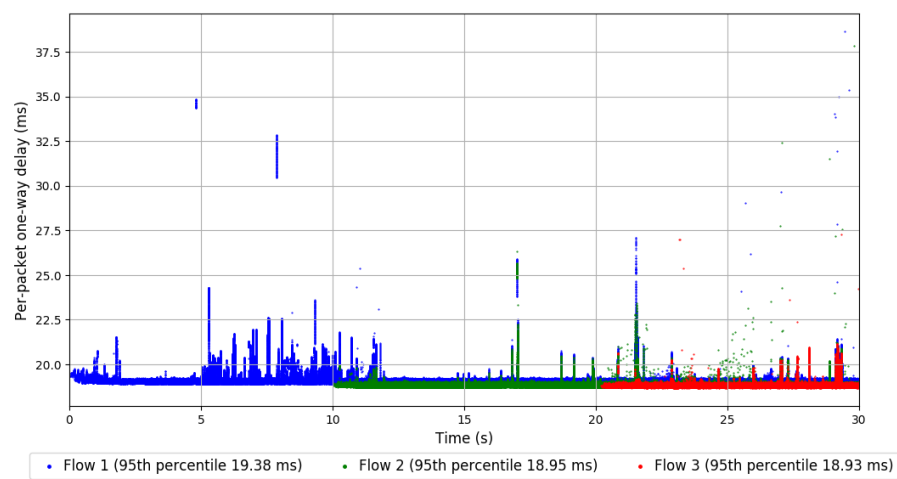
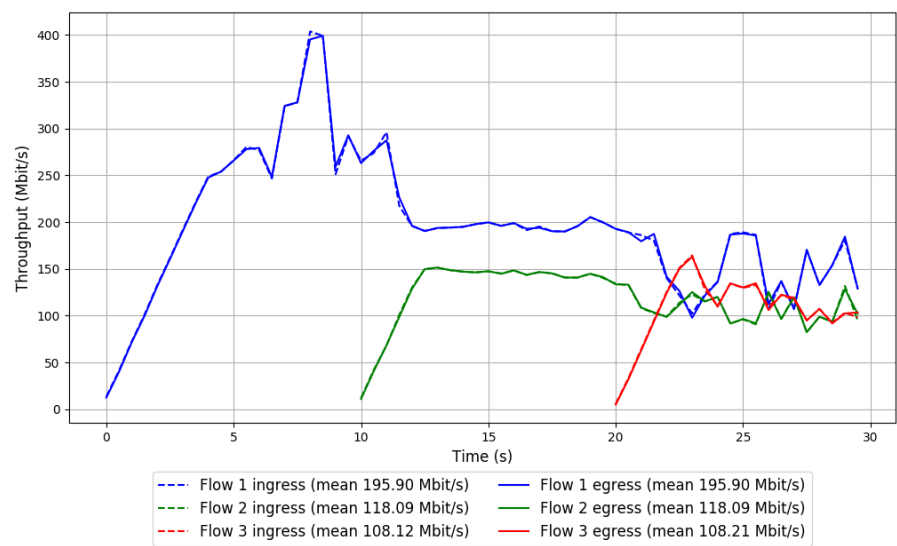


Run 4: Statistics of LEDBAT

Start at: 2017-08-11 10:26:52  
End at: 2017-08-11 10:27:22  
Local clock offset: 0.428 ms  
Remote clock offset: -1.182 ms

# Below is generated by plot.py at 2017-08-11 16:09:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 309.84 Mbit/s  
95th percentile per-packet one-way delay: 19.219 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 195.90 Mbit/s  
95th percentile per-packet one-way delay: 19.376 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 118.09 Mbit/s  
95th percentile per-packet one-way delay: 18.952 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 108.21 Mbit/s  
95th percentile per-packet one-way delay: 18.926 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

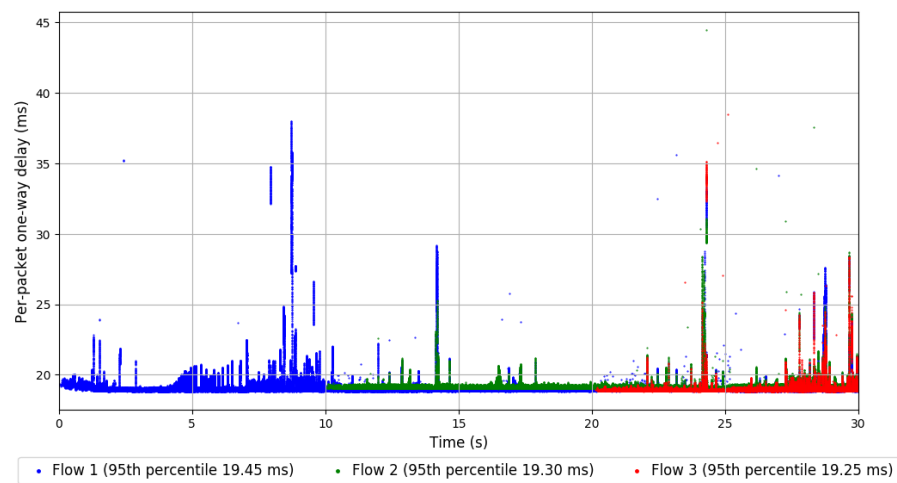
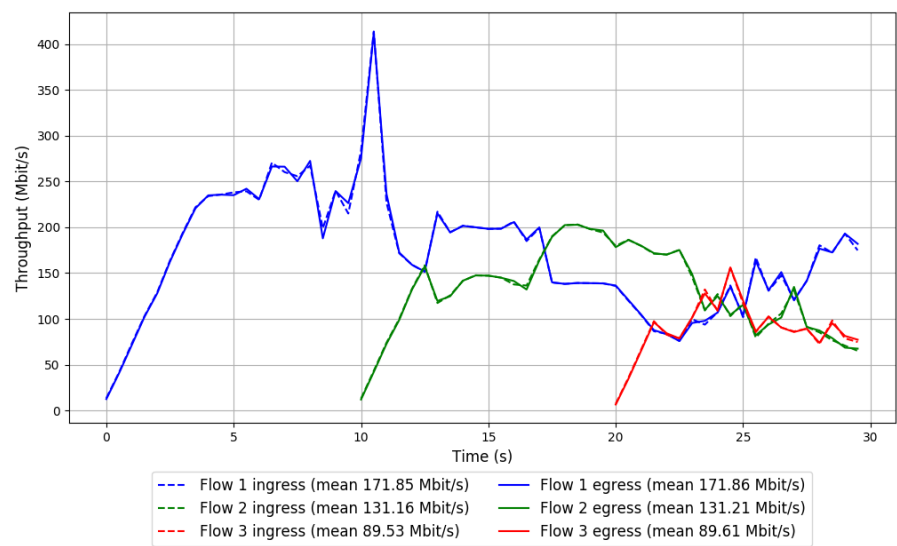


Run 5: Statistics of LEDBAT

Start at: 2017-08-11 10:48:33  
End at: 2017-08-11 10:49:03  
Local clock offset: 0.472 ms  
Remote clock offset: -1.171 ms

# Below is generated by plot.py at 2017-08-11 16:09:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 288.64 Mbit/s  
95th percentile per-packet one-way delay: 19.391 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 171.86 Mbit/s  
95th percentile per-packet one-way delay: 19.452 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 131.21 Mbit/s  
95th percentile per-packet one-way delay: 19.302 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 89.61 Mbit/s  
95th percentile per-packet one-way delay: 19.252 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

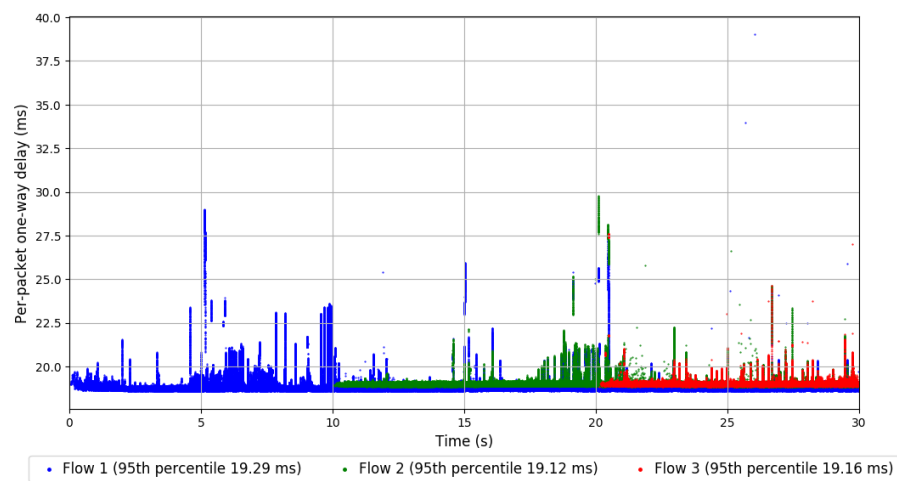
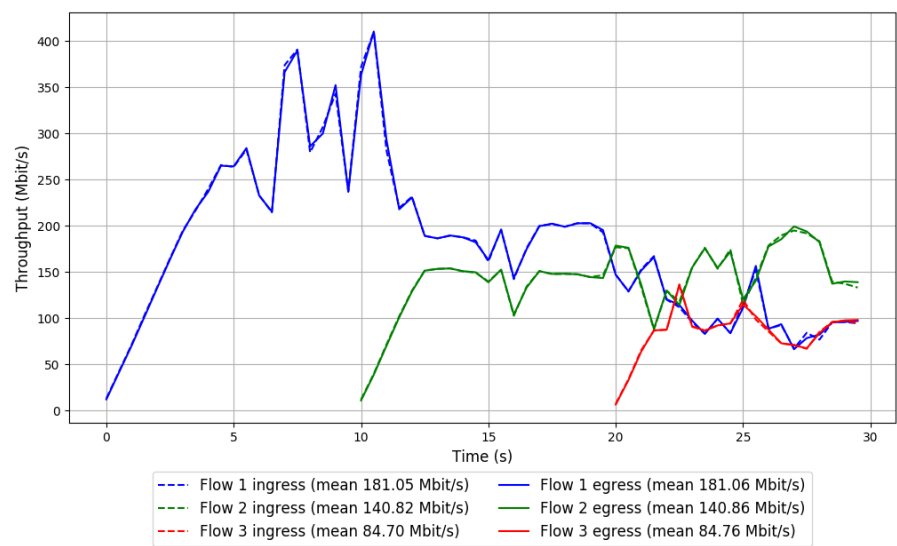


Run 6: Statistics of LEDBAT

Start at: 2017-08-11 11:09:55  
End at: 2017-08-11 11:10:25  
Local clock offset: 0.605 ms  
Remote clock offset: -1.224 ms

# Below is generated by plot.py at 2017-08-11 16:09:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 302.59 Mbit/s  
95th percentile per-packet one-way delay: 19.169 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 181.06 Mbit/s  
95th percentile per-packet one-way delay: 19.287 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 140.86 Mbit/s  
95th percentile per-packet one-way delay: 19.117 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 84.76 Mbit/s  
95th percentile per-packet one-way delay: 19.159 ms  
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



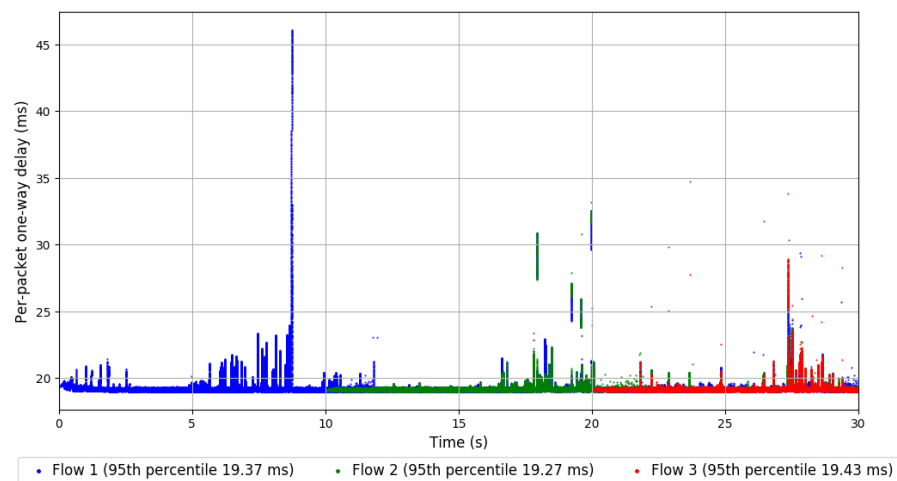
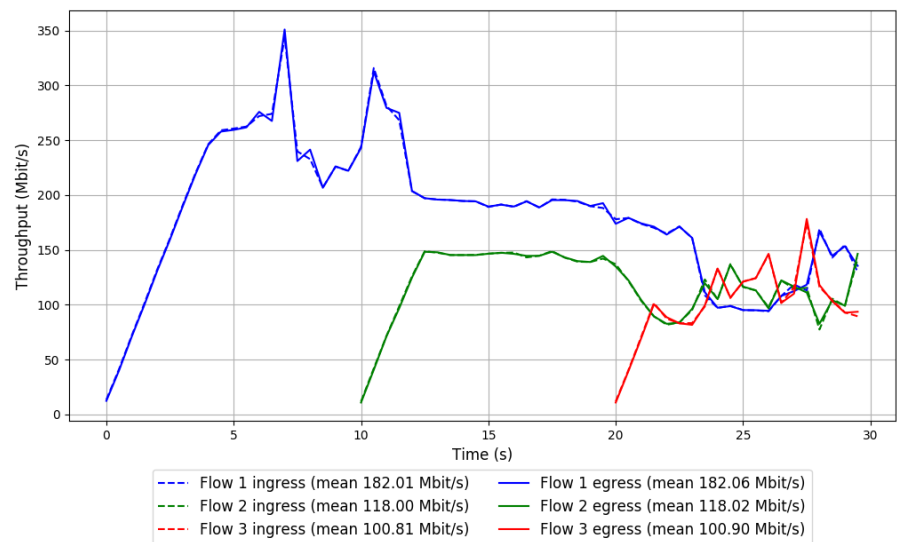
Run 7: Statistics of LEDBAT

Start at: 2017-08-11 11:31:43  
End at: 2017-08-11 11:32:13  
Local clock offset: 0.601 ms  
Remote clock offset: -1.107 ms

# Below is generated by plot.py at 2017-08-11 16:09:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 293.99 Mbit/s  
95th percentile per-packet one-way delay: 19.325 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 182.06 Mbit/s  
95th percentile per-packet one-way delay: 19.372 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 118.02 Mbit/s  
95th percentile per-packet one-way delay: 19.273 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 100.90 Mbit/s  
95th percentile per-packet one-way delay: 19.426 ms  
Loss rate: 0.00%



Run 7: Report of LEDBAT — Data Link

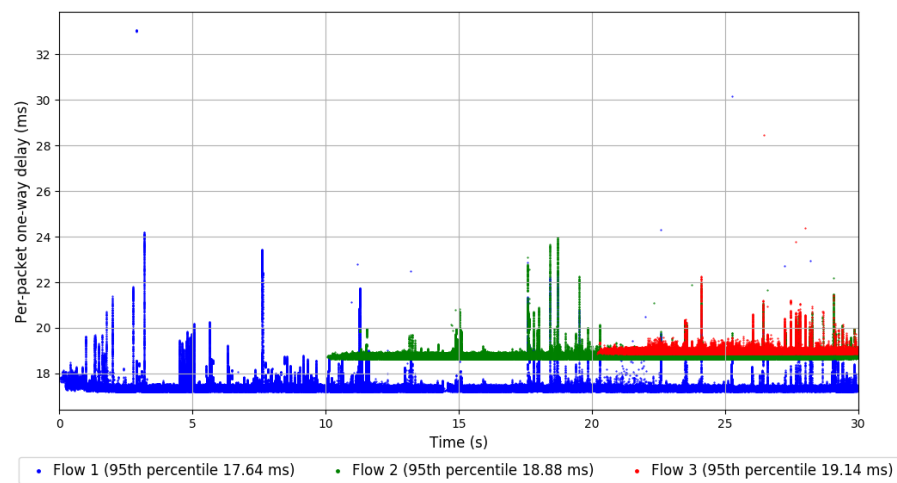
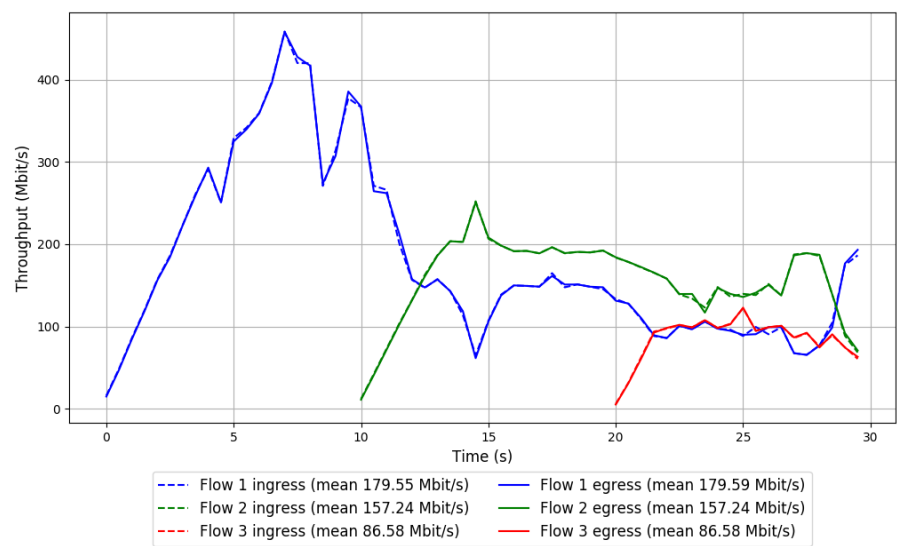


Run 8: Statistics of LEDBAT

Start at: 2017-08-11 11:53:02  
End at: 2017-08-11 11:53:32  
Local clock offset: 0.84 ms  
Remote clock offset: -1.195 ms

# Below is generated by plot.py at 2017-08-11 16:10:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 312.44 Mbit/s  
95th percentile per-packet one-way delay: 18.944 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 179.59 Mbit/s  
95th percentile per-packet one-way delay: 17.638 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 157.24 Mbit/s  
95th percentile per-packet one-way delay: 18.878 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 86.58 Mbit/s  
95th percentile per-packet one-way delay: 19.137 ms  
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-11 12:14:45

End at: 2017-08-11 12:15:15

Local clock offset: 0.78 ms

Remote clock offset: -1.26 ms

# Below is generated by plot.py at 2017-08-11 16:10:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 310.43 Mbit/s

95th percentile per-packet one-way delay: 19.098 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.69 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.31 Mbit/s

95th percentile per-packet one-way delay: 19.098 ms

Loss rate: 0.00%

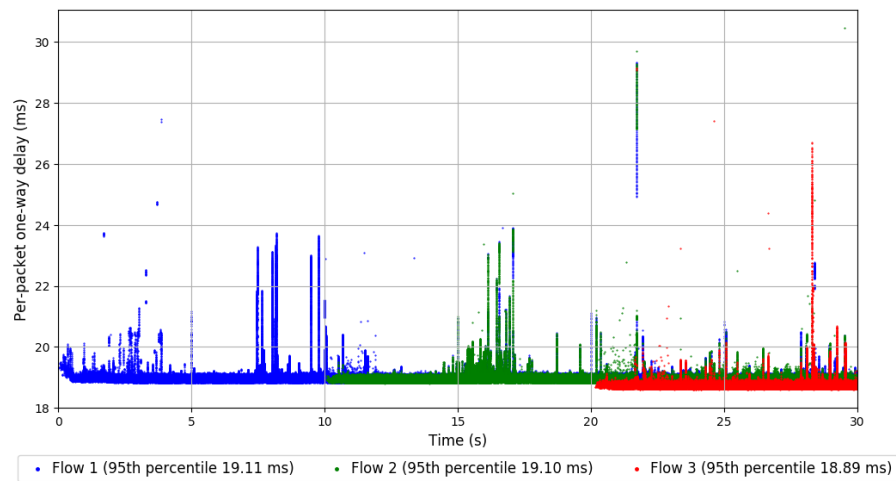
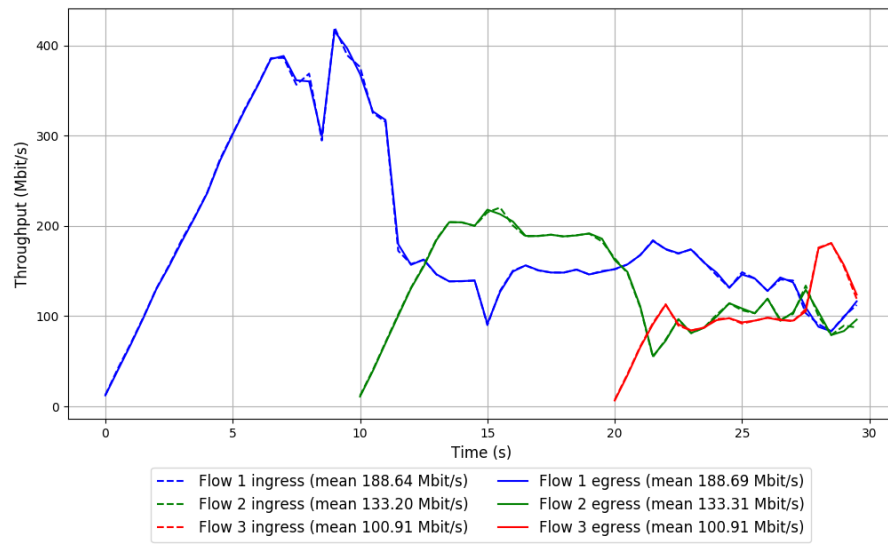
-- Flow 3:

Average throughput: 100.91 Mbit/s

95th percentile per-packet one-way delay: 18.892 ms

Loss rate: 0.00%

# Run 9: Report of LEDBAT — Data Link

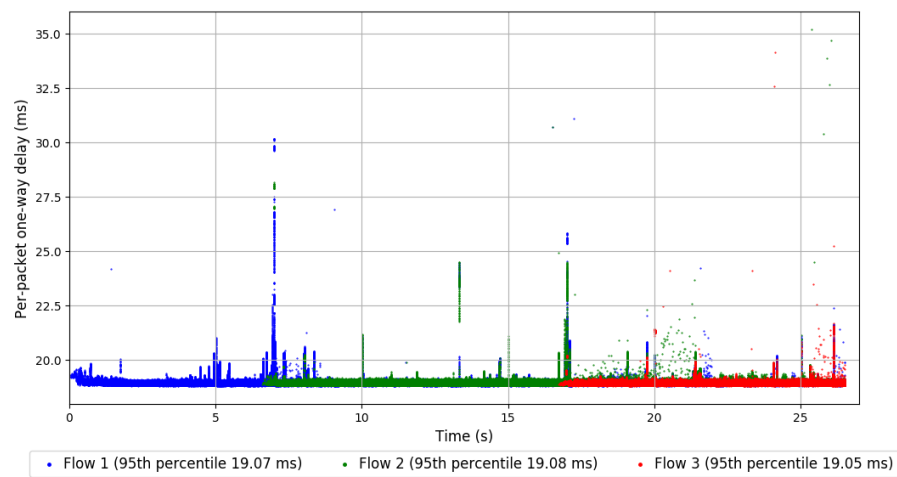
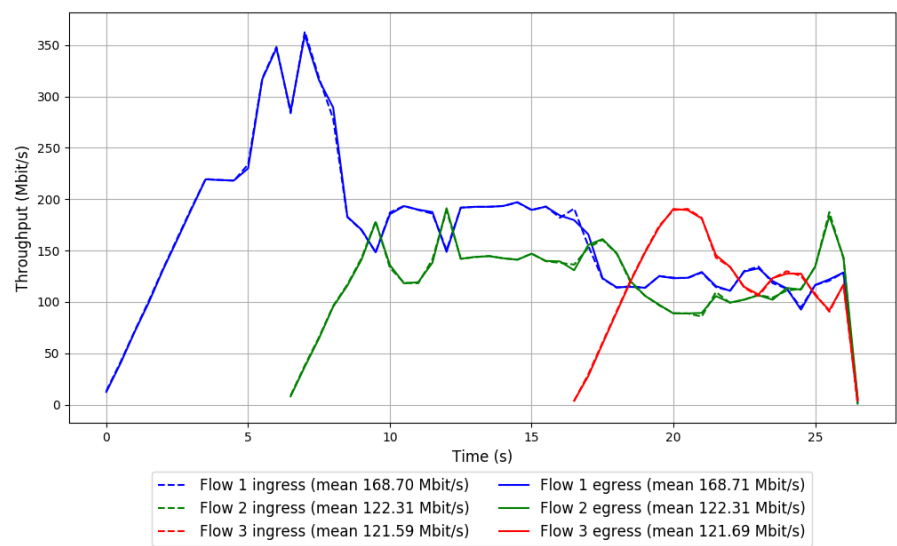


Run 10: Statistics of LEDBAT

Start at: 2017-08-11 12:36:27  
End at: 2017-08-11 12:36:57  
Local clock offset: 0.755 ms  
Remote clock offset: -1.588 ms

# Below is generated by plot.py at 2017-08-11 16:10:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 305.61 Mbit/s  
95th percentile per-packet one-way delay: 19.070 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 168.71 Mbit/s  
95th percentile per-packet one-way delay: 19.069 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 122.31 Mbit/s  
95th percentile per-packet one-way delay: 19.079 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 121.69 Mbit/s  
95th percentile per-packet one-way delay: 19.052 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



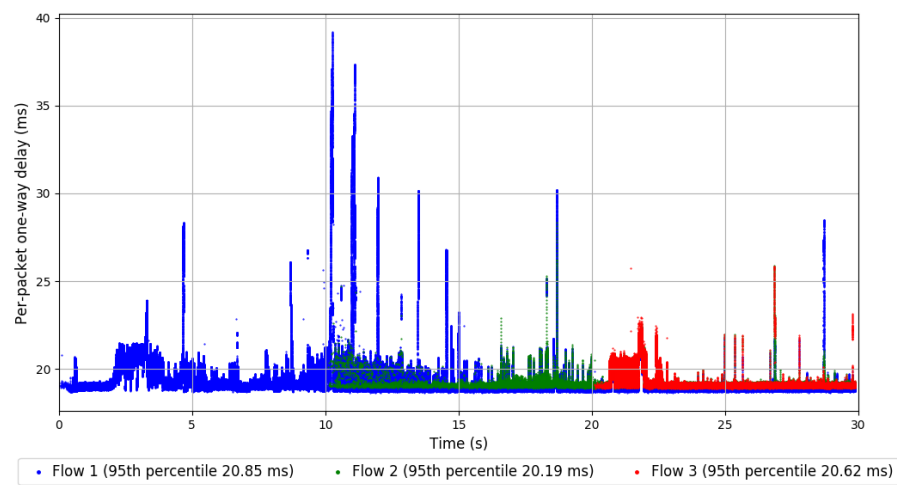
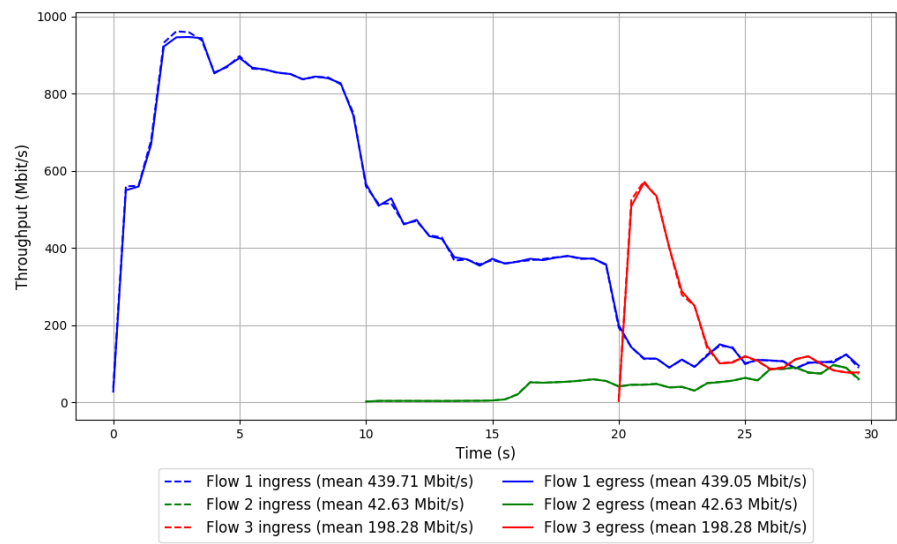
Run 1: Statistics of PCC

Start at: 2017-08-11 09:17:50  
End at: 2017-08-11 09:18:20  
Local clock offset: 0.358 ms  
Remote clock offset: -0.435 ms

# Below is generated by plot.py at 2017-08-11 16:11:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 532.26 Mbit/s  
95th percentile per-packet one-way delay: 20.794 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 439.05 Mbit/s  
95th percentile per-packet one-way delay: 20.847 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 42.63 Mbit/s  
95th percentile per-packet one-way delay: 20.186 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 198.28 Mbit/s  
95th percentile per-packet one-way delay: 20.622 ms  
Loss rate: 0.00%



Run 1: Report of PCC — Data Link

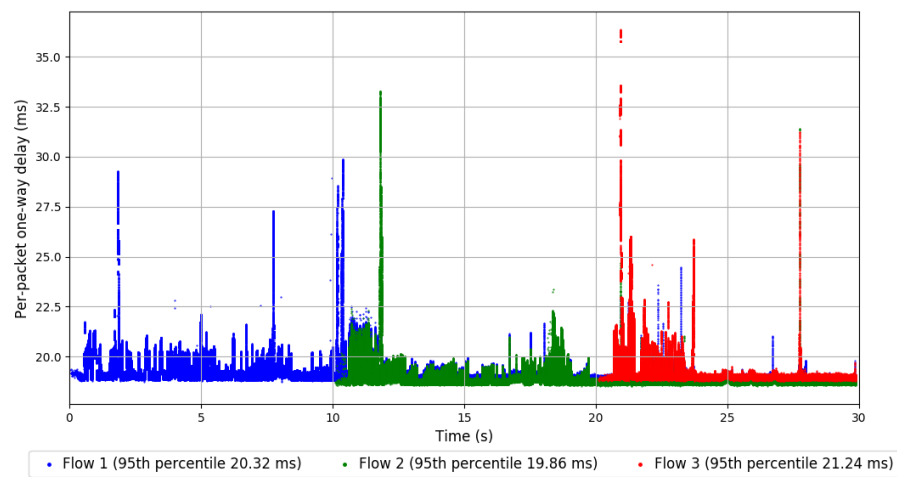
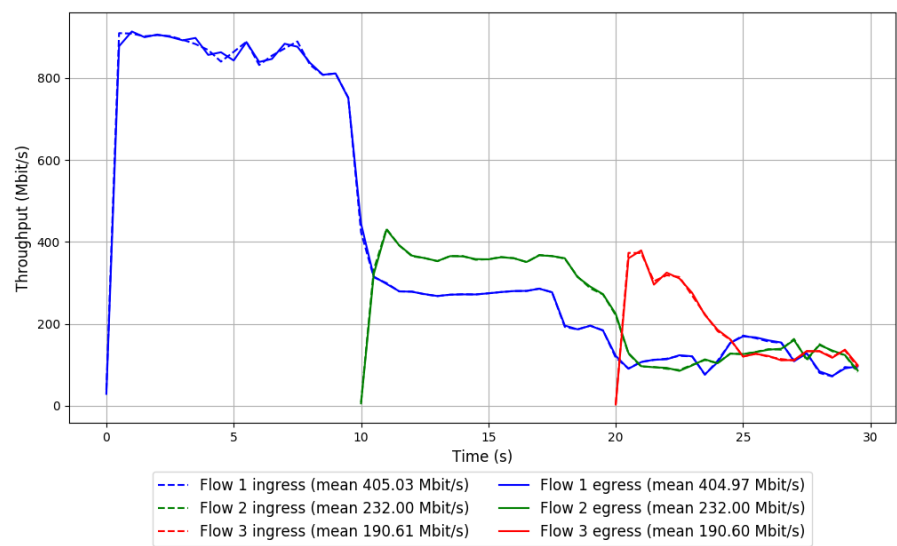


Run 2: Statistics of PCC

Start at: 2017-08-11 09:39:17  
End at: 2017-08-11 09:39:47  
Local clock offset: 0.372 ms  
Remote clock offset: -0.807 ms

# Below is generated by plot.py at 2017-08-11 16:12:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 621.18 Mbit/s  
95th percentile per-packet one-way delay: 20.320 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 404.97 Mbit/s  
95th percentile per-packet one-way delay: 20.319 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 232.00 Mbit/s  
95th percentile per-packet one-way delay: 19.857 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 190.60 Mbit/s  
95th percentile per-packet one-way delay: 21.237 ms  
Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-11 10:00:50

End at: 2017-08-11 10:01:20

Local clock offset: 0.46 ms

Remote clock offset: -0.95 ms

# Below is generated by plot.py at 2017-08-11 16:12:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 461.16 Mbit/s

95th percentile per-packet one-way delay: 19.954 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 345.65 Mbit/s

95th percentile per-packet one-way delay: 20.092 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.08 Mbit/s

95th percentile per-packet one-way delay: 19.181 ms

Loss rate: 0.01%

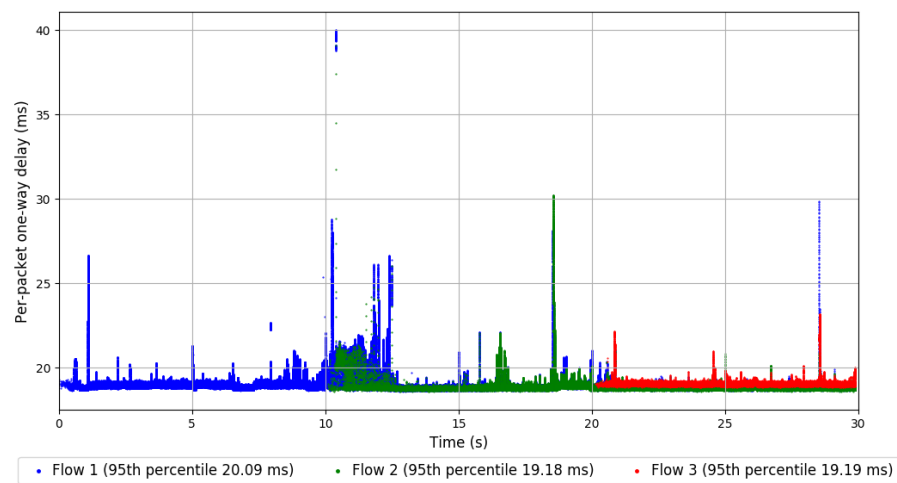
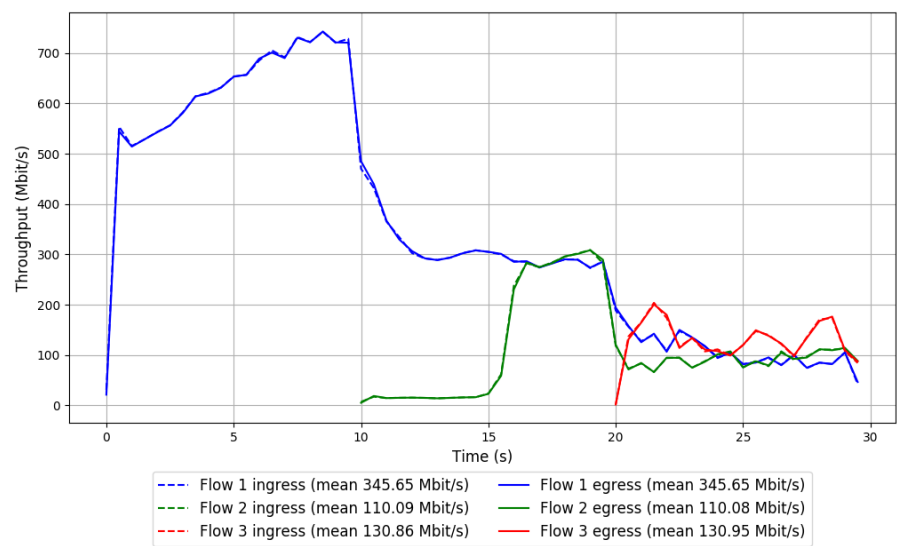
-- Flow 3:

Average throughput: 130.95 Mbit/s

95th percentile per-packet one-way delay: 19.187 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link

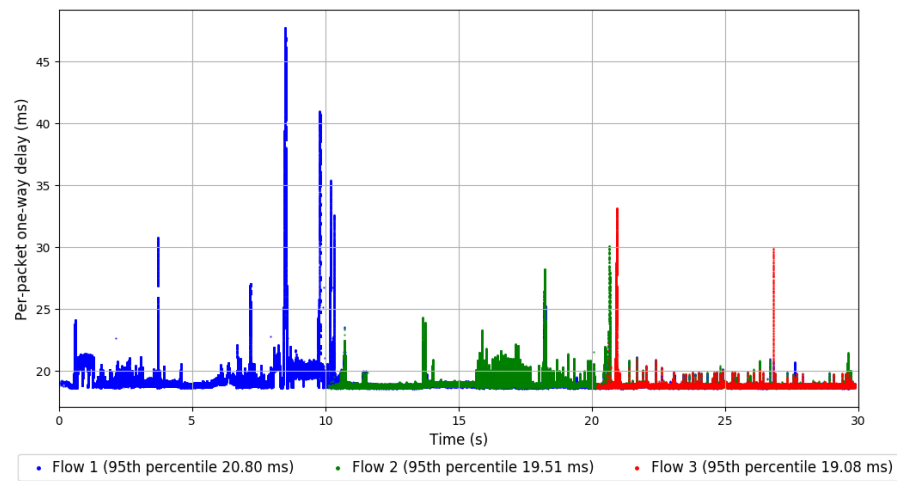
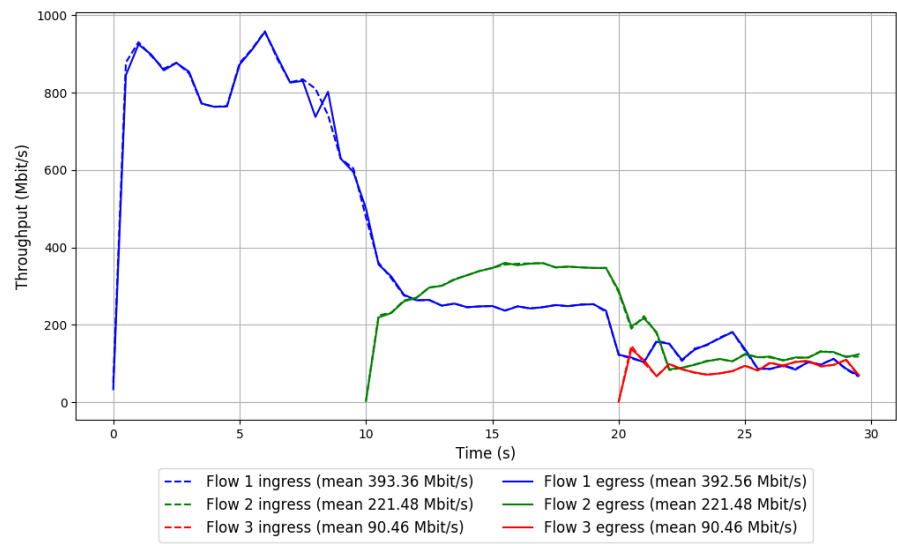


Run 4: Statistics of PCC

Start at: 2017-08-11 10:22:25  
End at: 2017-08-11 10:22:55  
Local clock offset: 0.479 ms  
Remote clock offset: -1.173 ms

# Below is generated by plot.py at 2017-08-11 16:13:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 568.66 Mbit/s  
95th percentile per-packet one-way delay: 20.643 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 392.56 Mbit/s  
95th percentile per-packet one-way delay: 20.799 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 221.48 Mbit/s  
95th percentile per-packet one-way delay: 19.512 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 90.46 Mbit/s  
95th percentile per-packet one-way delay: 19.080 ms  
Loss rate: 0.00%

Run 4: Report of PCC — Data Link



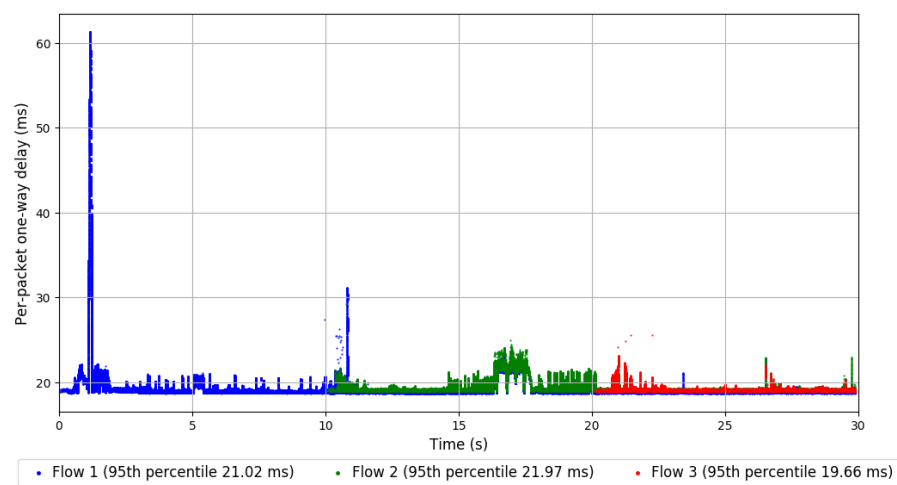
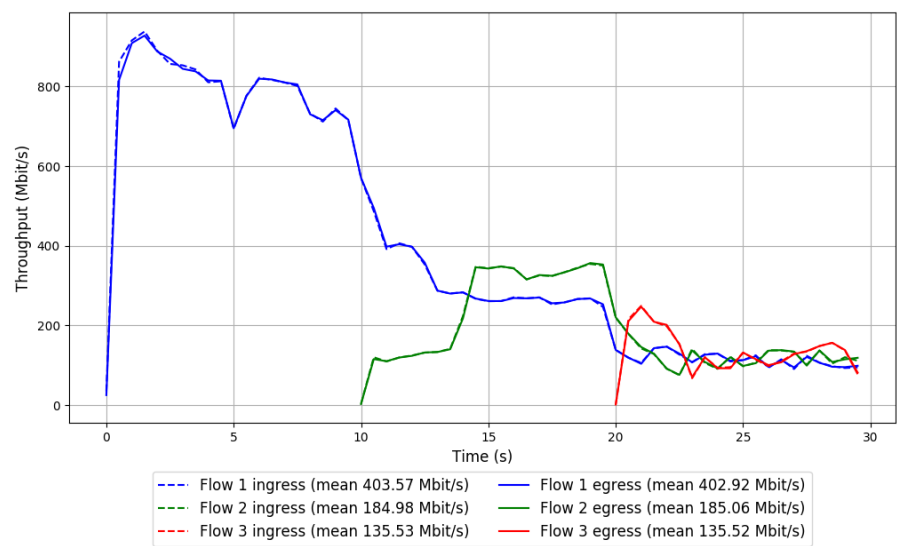
Run 5: Statistics of PCC

Start at: 2017-08-11 10:44:06  
End at: 2017-08-11 10:44:36  
Local clock offset: 0.45 ms  
Remote clock offset: -1.258 ms

# Below is generated by plot.py at 2017-08-11 16:13:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 569.90 Mbit/s  
95th percentile per-packet one-way delay: 21.239 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 402.92 Mbit/s  
95th percentile per-packet one-way delay: 21.023 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 185.06 Mbit/s  
95th percentile per-packet one-way delay: 21.971 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 135.52 Mbit/s  
95th percentile per-packet one-way delay: 19.658 ms  
Loss rate: 0.00%



Run 5: Report of PCC — Data Link

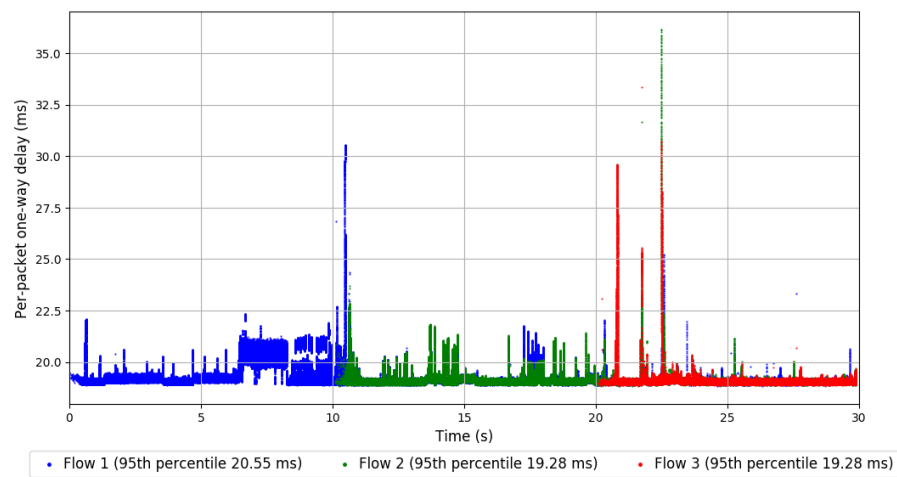
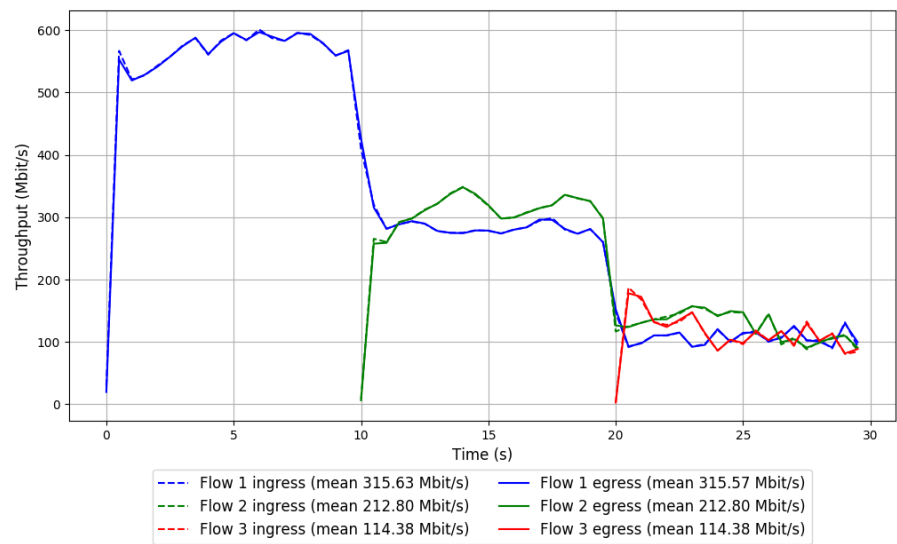


Run 6: Statistics of PCC

Start at: 2017-08-11 11:05:30  
End at: 2017-08-11 11:06:00  
Local clock offset: 0.612 ms  
Remote clock offset: -1.167 ms

# Below is generated by plot.py at 2017-08-11 16:14:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 494.13 Mbit/s  
95th percentile per-packet one-way delay: 20.413 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 315.57 Mbit/s  
95th percentile per-packet one-way delay: 20.548 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 212.80 Mbit/s  
95th percentile per-packet one-way delay: 19.284 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 114.38 Mbit/s  
95th percentile per-packet one-way delay: 19.277 ms  
Loss rate: 0.00%

Run 6: Report of PCC — Data Link

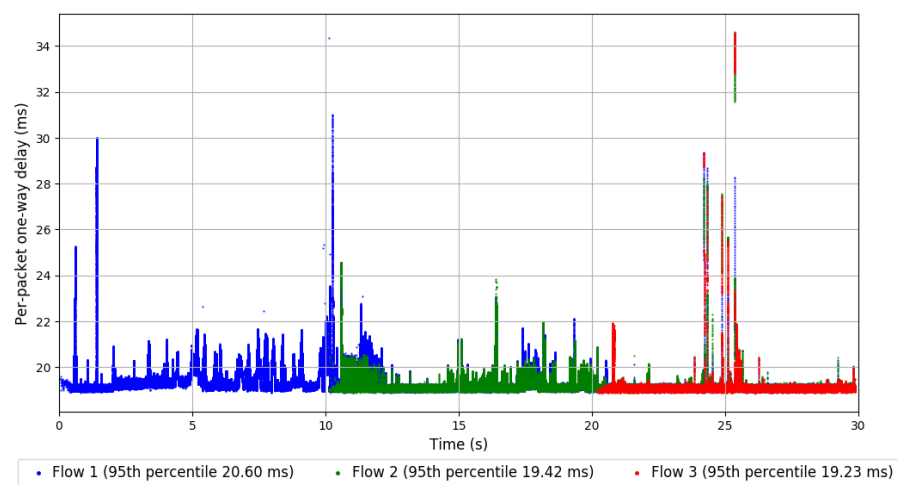
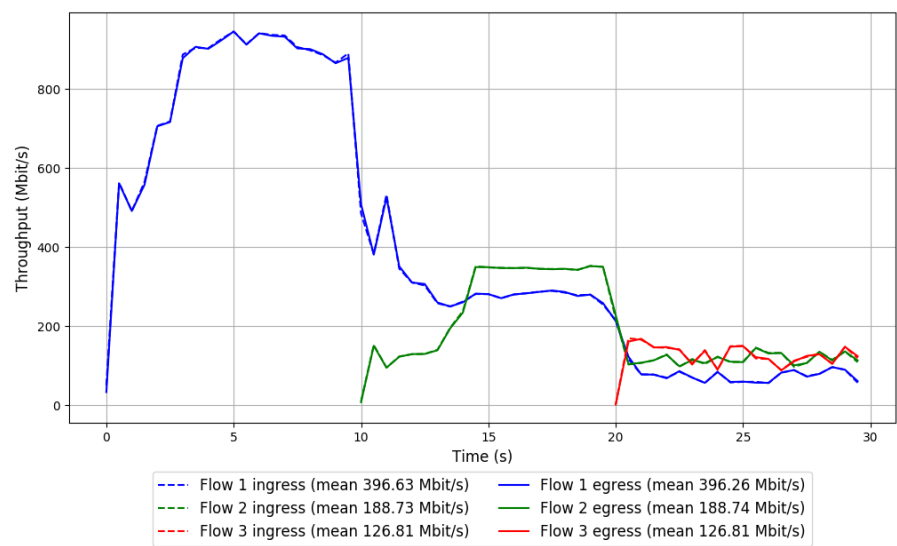


Run 7: Statistics of PCC

Start at: 2017-08-11 11:27:12  
End at: 2017-08-11 11:27:42  
Local clock offset: 0.567 ms  
Remote clock offset: -1.184 ms

# Below is generated by plot.py at 2017-08-11 16:14:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 562.49 Mbit/s  
95th percentile per-packet one-way delay: 20.417 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 396.26 Mbit/s  
95th percentile per-packet one-way delay: 20.602 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 188.74 Mbit/s  
95th percentile per-packet one-way delay: 19.418 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 126.81 Mbit/s  
95th percentile per-packet one-way delay: 19.235 ms  
Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-11 11:48:40

End at: 2017-08-11 11:49:10

Local clock offset: 0.805 ms

Remote clock offset: -1.14 ms

# Below is generated by plot.py at 2017-08-11 16:15:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 515.42 Mbit/s

95th percentile per-packet one-way delay: 20.262 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 346.55 Mbit/s

95th percentile per-packet one-way delay: 20.152 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 252.87 Mbit/s

95th percentile per-packet one-way delay: 20.576 ms

Loss rate: 0.01%

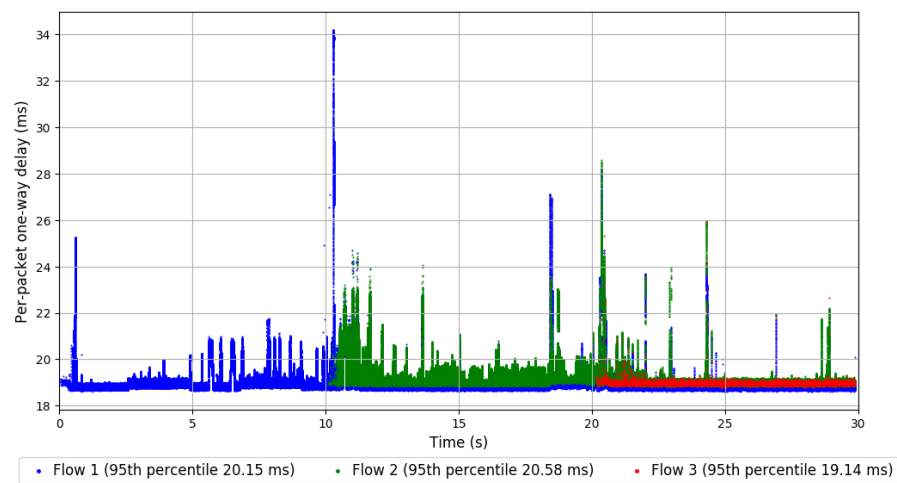
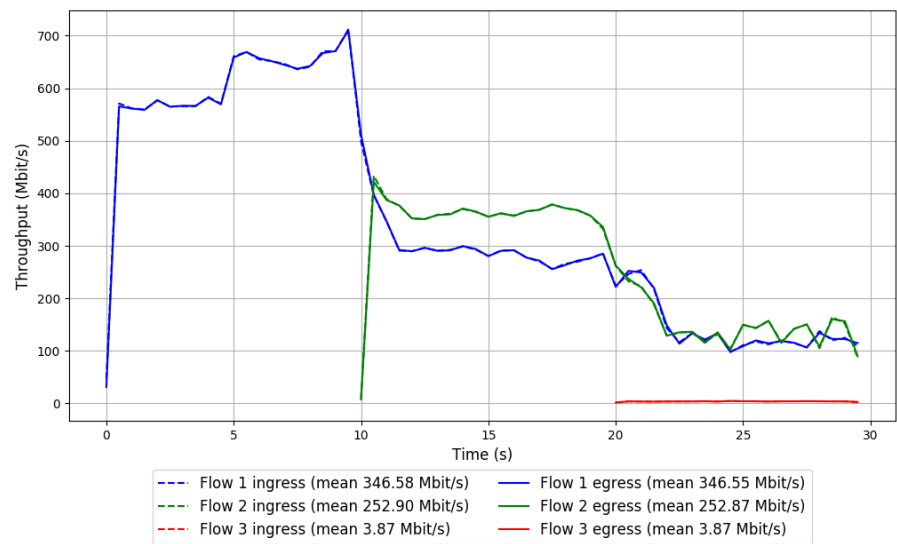
-- Flow 3:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 19.143 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



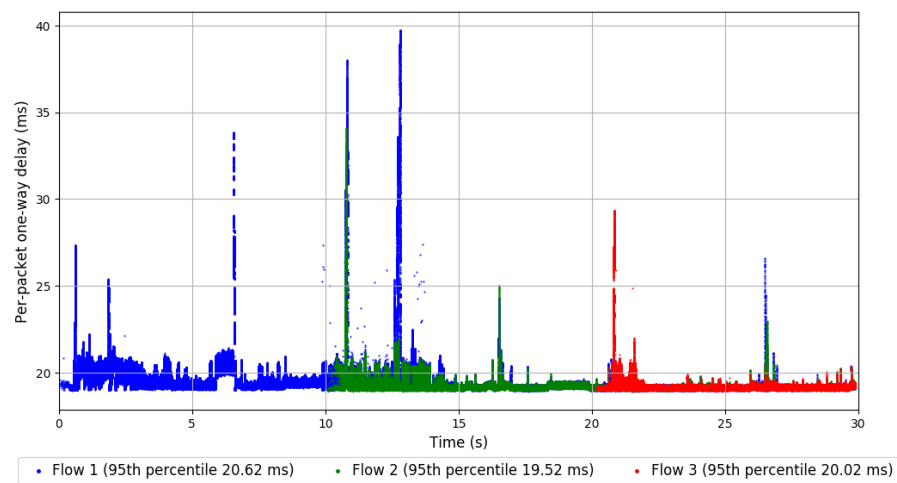
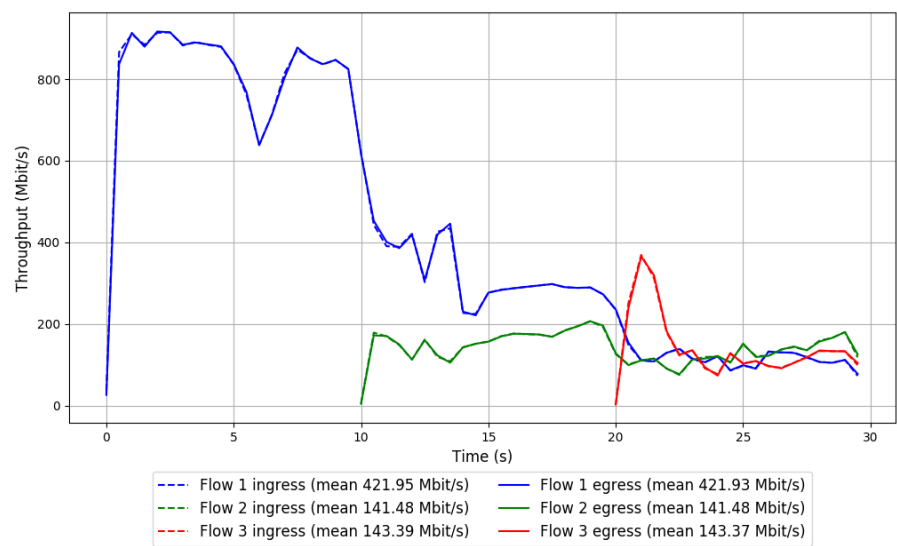
Run 9: Statistics of PCC

Start at: 2017-08-11 12:10:16  
End at: 2017-08-11 12:10:46  
Local clock offset: 0.714 ms  
Remote clock offset: -1.132 ms

# Below is generated by plot.py at 2017-08-11 16:15:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 562.60 Mbit/s  
95th percentile per-packet one-way delay: 20.523 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 421.93 Mbit/s  
95th percentile per-packet one-way delay: 20.616 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 141.48 Mbit/s  
95th percentile per-packet one-way delay: 19.520 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 143.37 Mbit/s  
95th percentile per-packet one-way delay: 20.021 ms  
Loss rate: 0.01%



Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-08-11 12:31:55

End at: 2017-08-11 12:32:25

Local clock offset: 0.669 ms

Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2017-08-11 16:16:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 599.57 Mbit/s

95th percentile per-packet one-way delay: 20.804 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 404.41 Mbit/s

95th percentile per-packet one-way delay: 20.907 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 238.91 Mbit/s

95th percentile per-packet one-way delay: 19.677 ms

Loss rate: 0.15%

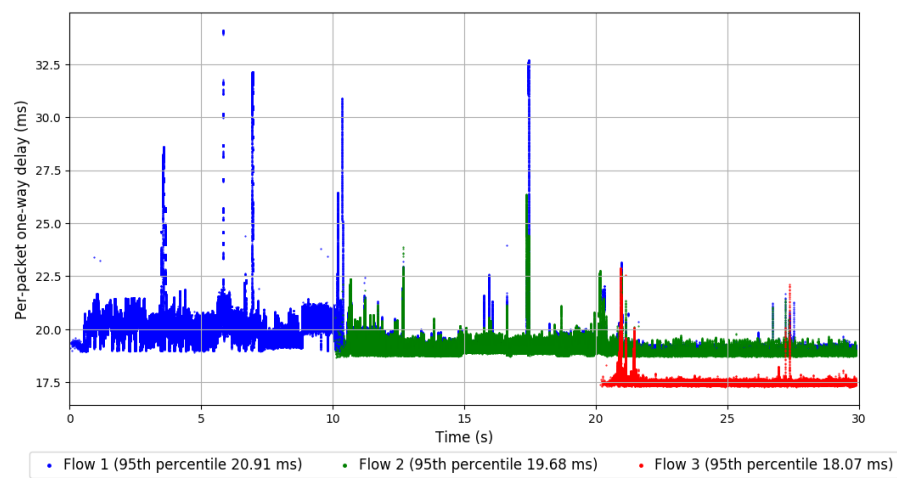
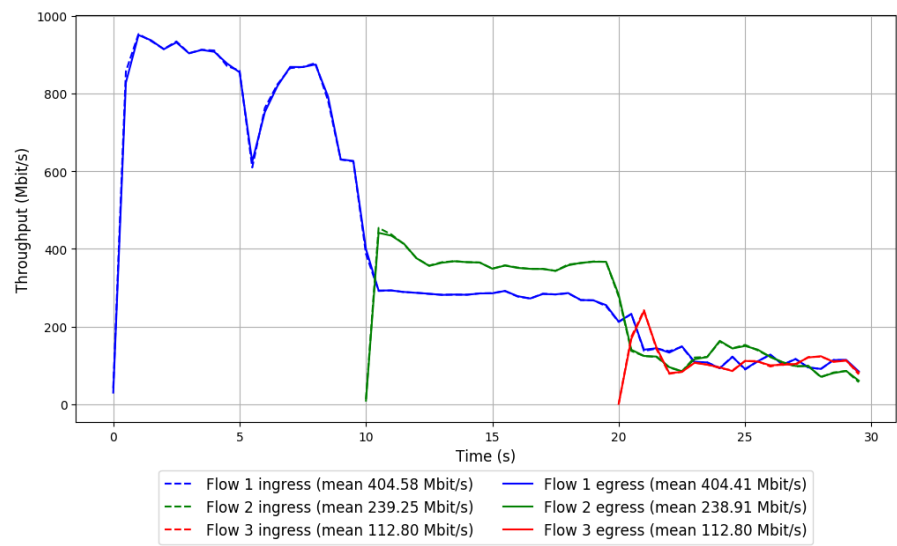
-- Flow 3:

Average throughput: 112.80 Mbit/s

95th percentile per-packet one-way delay: 18.067 ms

Loss rate: 0.00%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

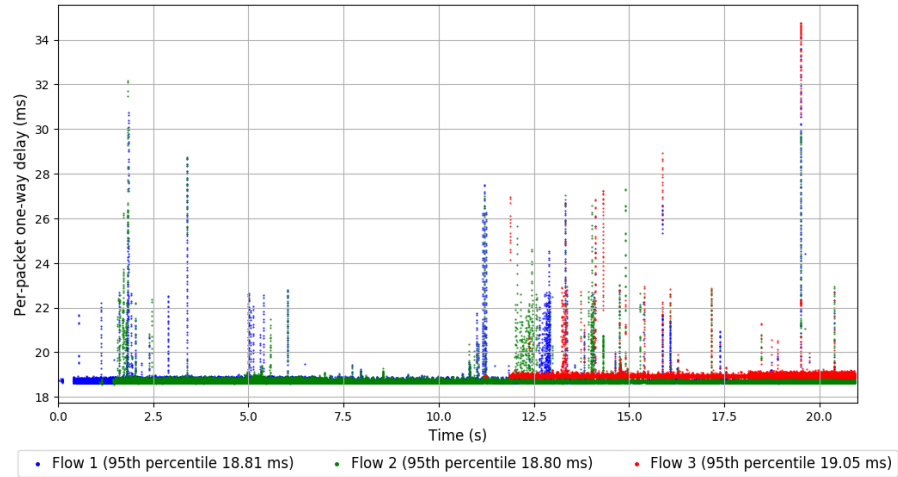
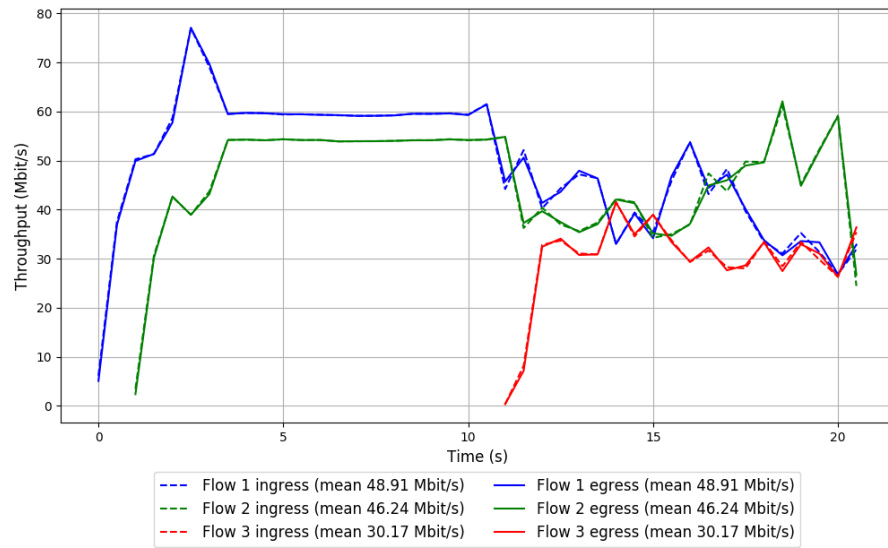
Start at: 2017-08-11 09:35:17

End at: 2017-08-11 09:35:47

Local clock offset: 0.373 ms

Remote clock offset: -0.744 ms

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

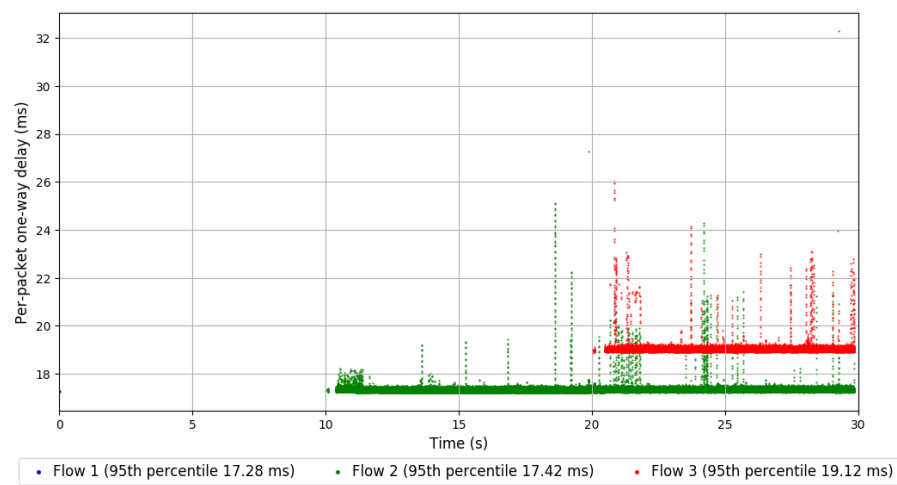
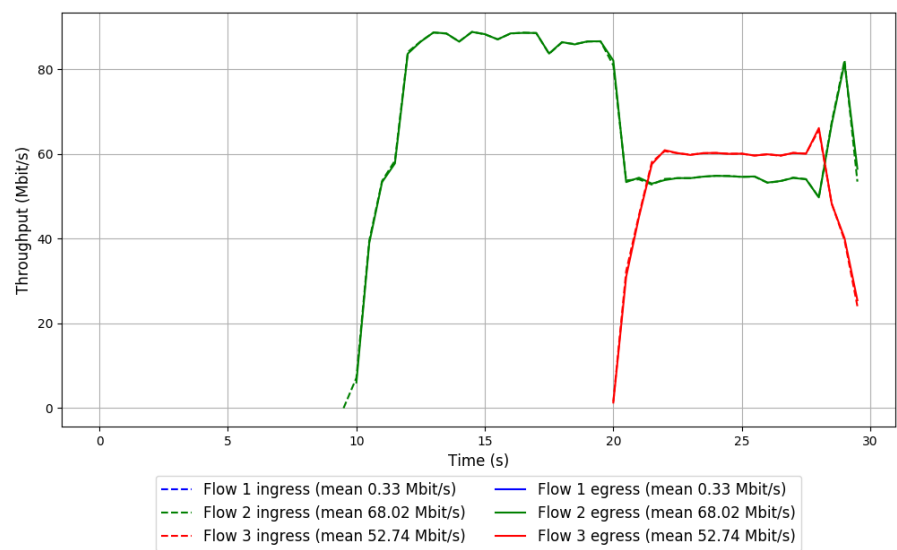


Run 2: Statistics of QUIC Cubic

Start at: 2017-08-11 09:56:51  
End at: 2017-08-11 09:57:21  
Local clock offset: 0.451 ms  
Remote clock offset: -0.855 ms

# Below is generated by plot.py at 2017-08-11 16:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.60 Mbit/s  
95th percentile per-packet one-way delay: 19.037 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 17.276 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 68.02 Mbit/s  
95th percentile per-packet one-way delay: 17.419 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 52.74 Mbit/s  
95th percentile per-packet one-way delay: 19.116 ms  
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



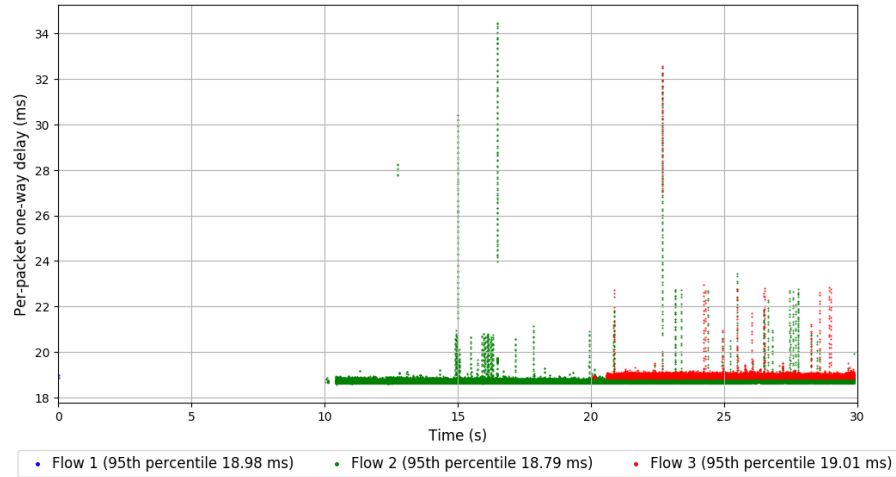
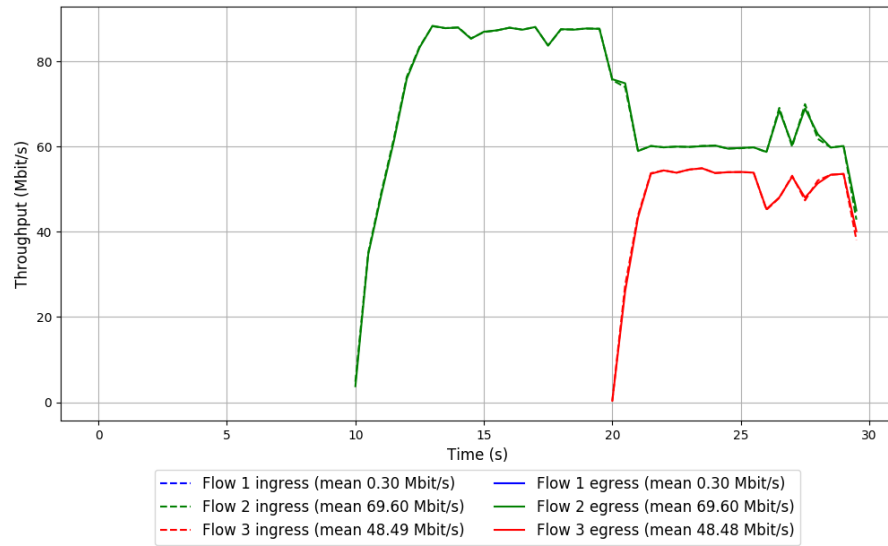
Run 3: Statistics of QUIC Cubic

Start at: 2017-08-11 10:18:28  
End at: 2017-08-11 10:18:58  
Local clock offset: 0.482 ms  
Remote clock offset: -1.144 ms

# Below is generated by plot.py at 2017-08-11 16:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.16 Mbit/s  
95th percentile per-packet one-way delay: 18.961 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 18.977 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 69.60 Mbit/s  
95th percentile per-packet one-way delay: 18.793 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 48.48 Mbit/s  
95th percentile per-packet one-way delay: 19.012 ms  
Loss rate: 0.00%



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

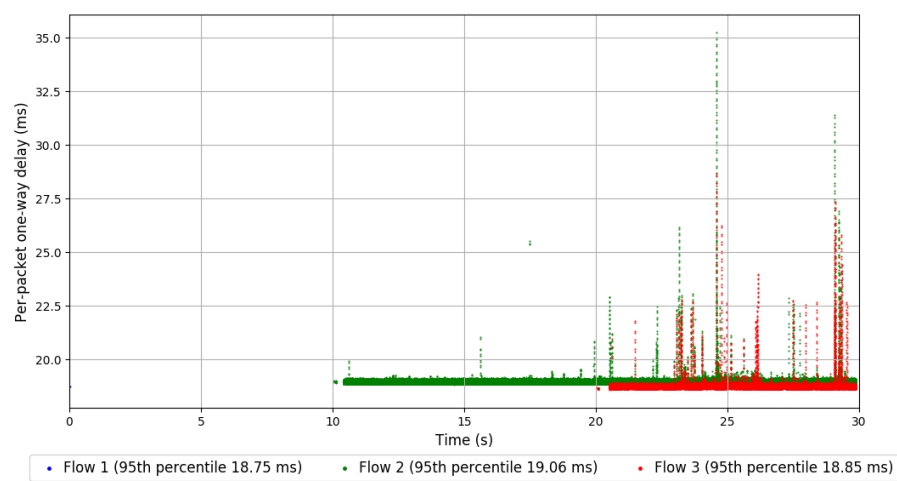
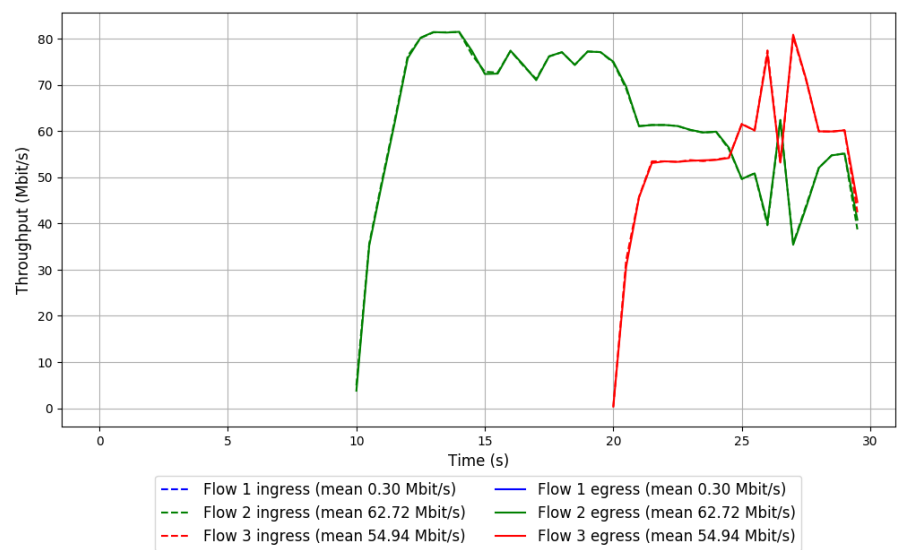


Run 4: Statistics of QUIC Cubic

Start at: 2017-08-11 10:40:13  
End at: 2017-08-11 10:40:43  
Local clock offset: 0.541 ms  
Remote clock offset: -1.253 ms

# Below is generated by plot.py at 2017-08-11 16:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.78 Mbit/s  
95th percentile per-packet one-way delay: 19.046 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 18.746 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 62.72 Mbit/s  
95th percentile per-packet one-way delay: 19.058 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 54.94 Mbit/s  
95th percentile per-packet one-way delay: 18.848 ms  
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

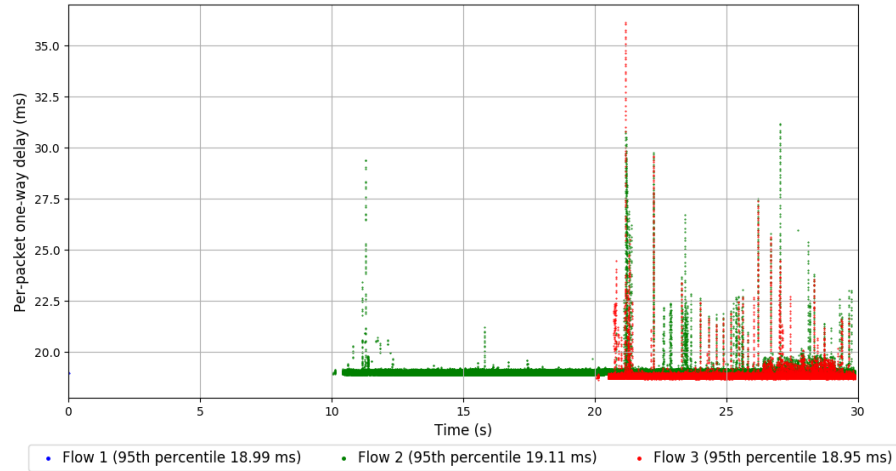
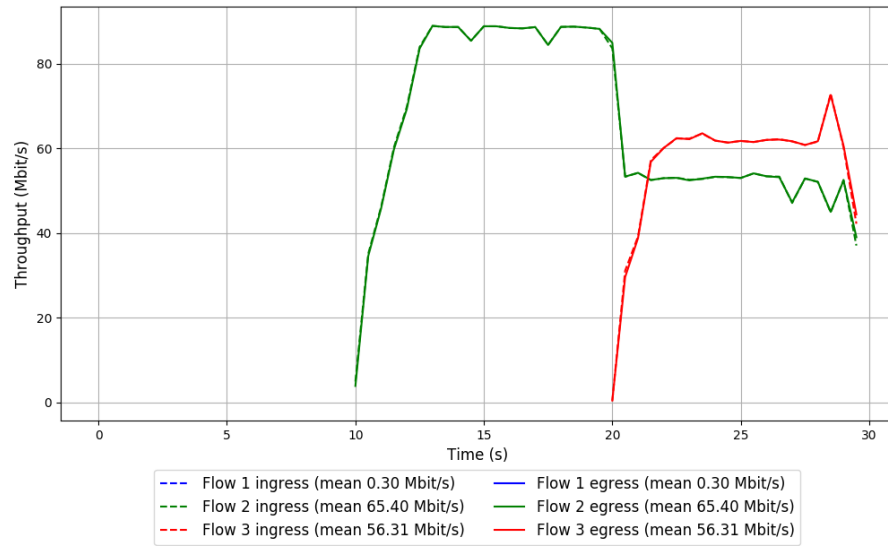


Run 5: Statistics of QUIC Cubic

Start at: 2017-08-11 11:01:34  
End at: 2017-08-11 11:02:04  
Local clock offset: 0.508 ms  
Remote clock offset: -1.278 ms

# Below is generated by plot.py at 2017-08-11 16:16:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.98 Mbit/s  
95th percentile per-packet one-way delay: 19.108 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 18.987 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 65.40 Mbit/s  
95th percentile per-packet one-way delay: 19.115 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 56.31 Mbit/s  
95th percentile per-packet one-way delay: 18.953 ms  
Loss rate: 0.00%

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

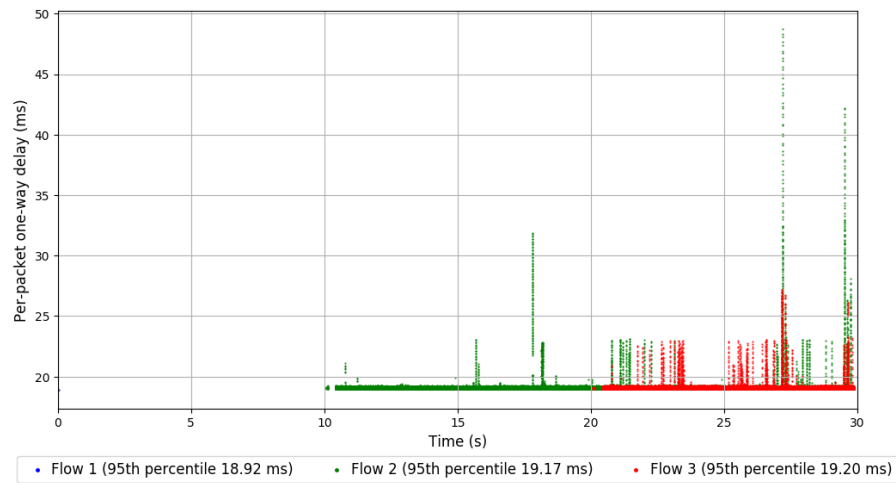
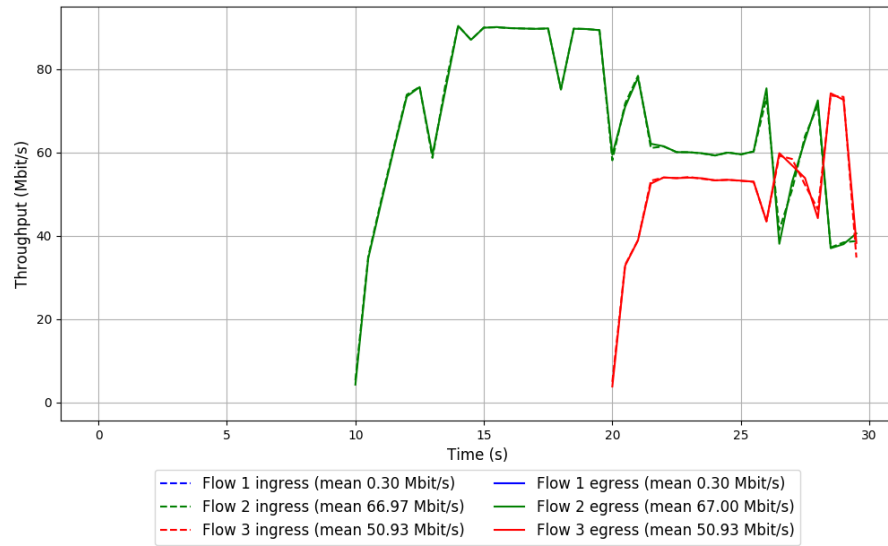


Run 6: Statistics of QUIC Cubic

Start at: 2017-08-11 11:23:17  
End at: 2017-08-11 11:23:47  
Local clock offset: 0.552 ms  
Remote clock offset: -1.121 ms

# Below is generated by plot.py at 2017-08-11 16:16:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.26 Mbit/s  
95th percentile per-packet one-way delay: 19.176 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 18.921 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 67.00 Mbit/s  
95th percentile per-packet one-way delay: 19.168 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 50.93 Mbit/s  
95th percentile per-packet one-way delay: 19.202 ms  
Loss rate: 0.00%

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



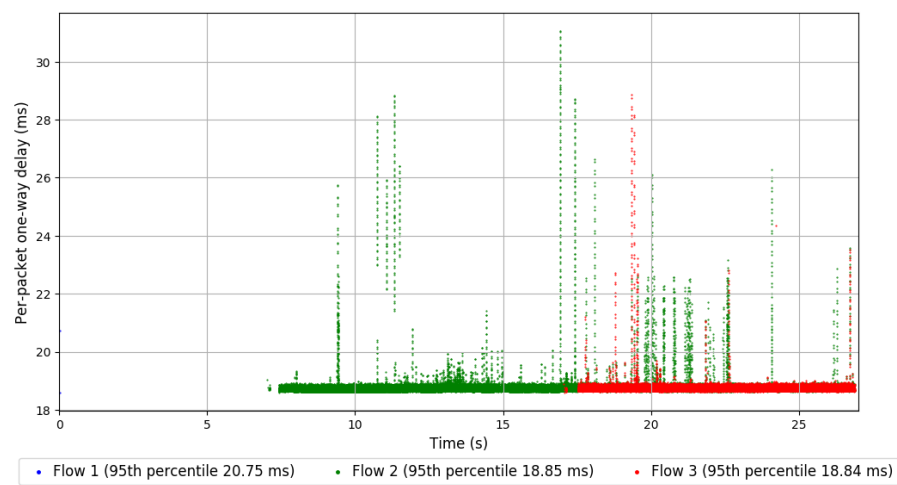
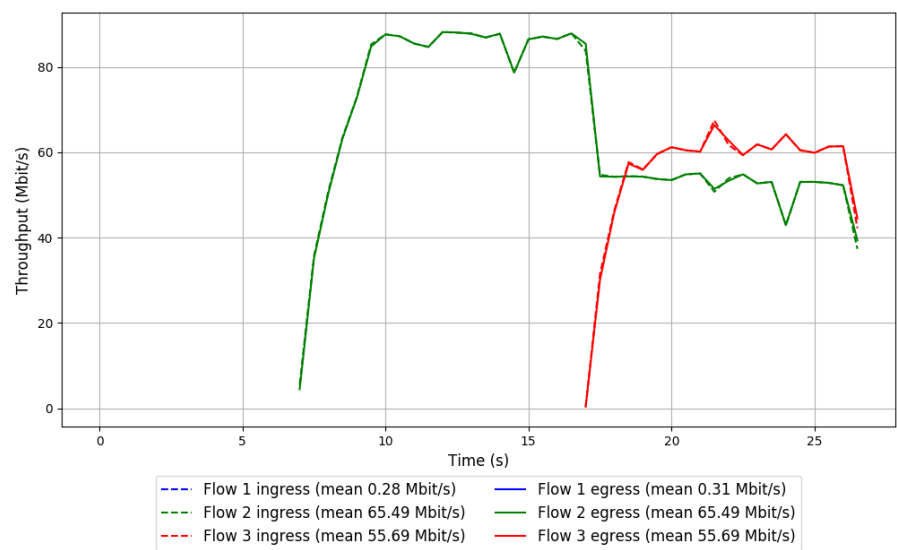
Run 7: Statistics of QUIC Cubic

Start at: 2017-08-11 11:44:45  
End at: 2017-08-11 11:45:15  
Local clock offset: 0.784 ms  
Remote clock offset: -1.169 ms

# Below is generated by plot.py at 2017-08-11 16:17:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.76 Mbit/s  
95th percentile per-packet one-way delay: 18.844 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 20.745 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 65.49 Mbit/s  
95th percentile per-packet one-way delay: 18.847 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 55.69 Mbit/s  
95th percentile per-packet one-way delay: 18.839 ms  
Loss rate: 0.00%



Run 7: Report of QUIC Cubic — Data Link

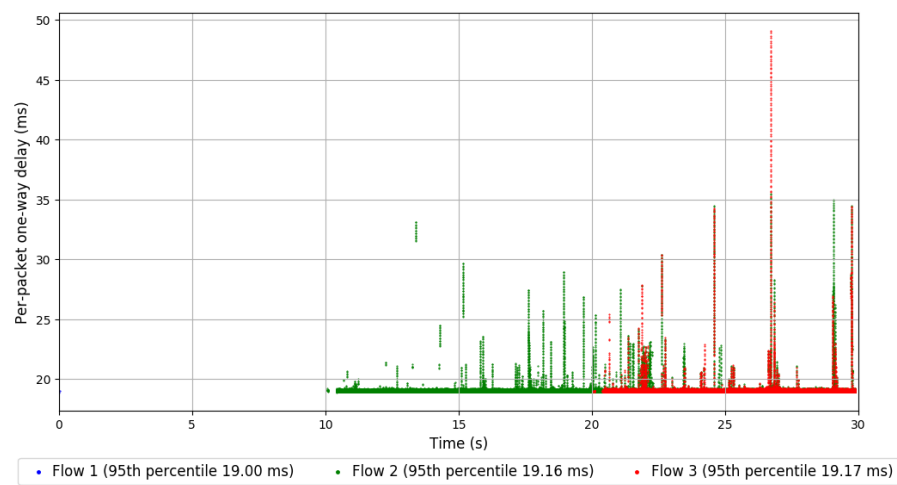
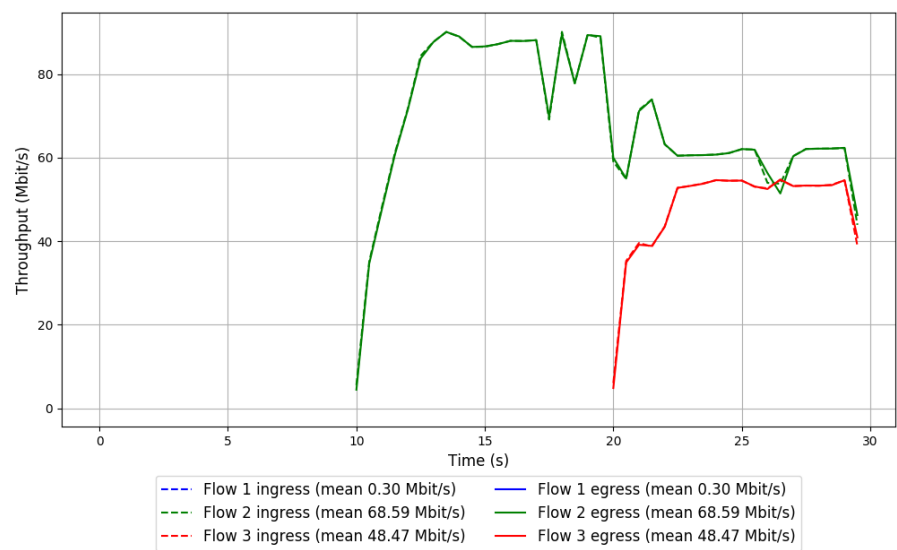


Run 8: Statistics of QUIC Cubic

Start at: 2017-08-11 12:06:20  
End at: 2017-08-11 12:06:50  
Local clock offset: 0.793 ms  
Remote clock offset: -1.126 ms

# Below is generated by plot.py at 2017-08-11 16:17:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.56 Mbit/s  
95th percentile per-packet one-way delay: 19.163 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 19.002 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 68.59 Mbit/s  
95th percentile per-packet one-way delay: 19.162 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 48.47 Mbit/s  
95th percentile per-packet one-way delay: 19.168 ms  
Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link

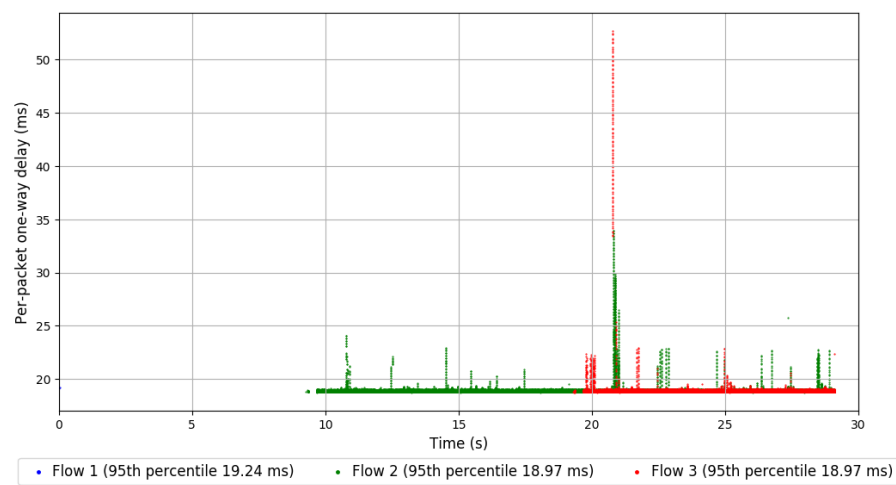
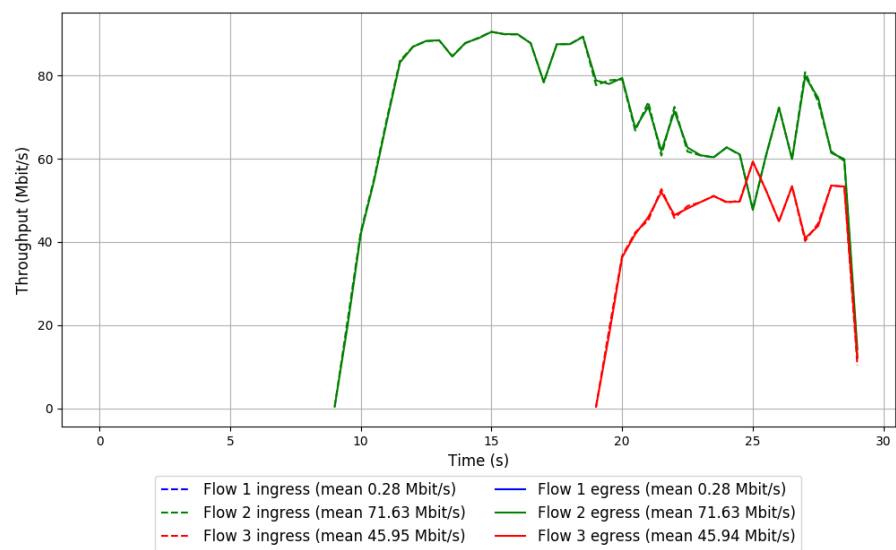


Run 9: Statistics of QUIC Cubic

Start at: 2017-08-11 12:27:56  
End at: 2017-08-11 12:28:26  
Local clock offset: 0.685 ms  
Remote clock offset: -1.457 ms

# Below is generated by plot.py at 2017-08-11 16:17:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.35 Mbit/s  
95th percentile per-packet one-way delay: 18.967 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.28 Mbit/s  
95th percentile per-packet one-way delay: 19.243 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 71.63 Mbit/s  
95th percentile per-packet one-way delay: 18.966 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 45.94 Mbit/s  
95th percentile per-packet one-way delay: 18.971 ms  
Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link

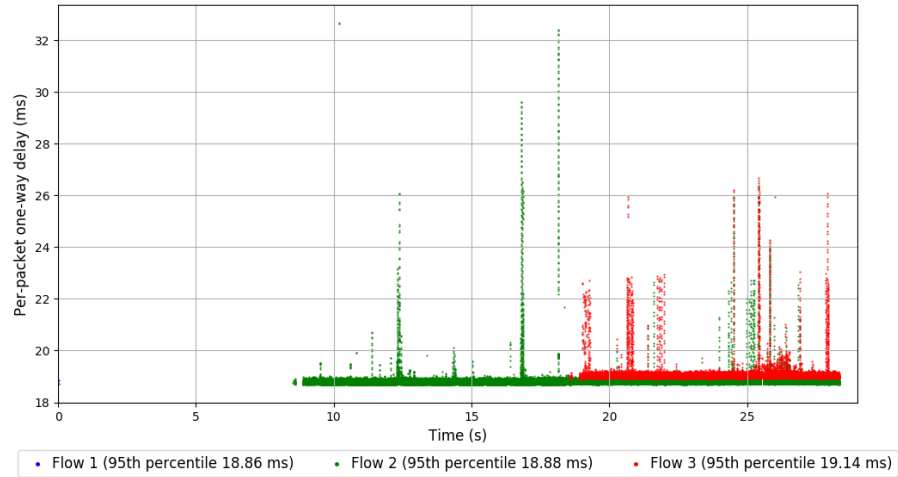
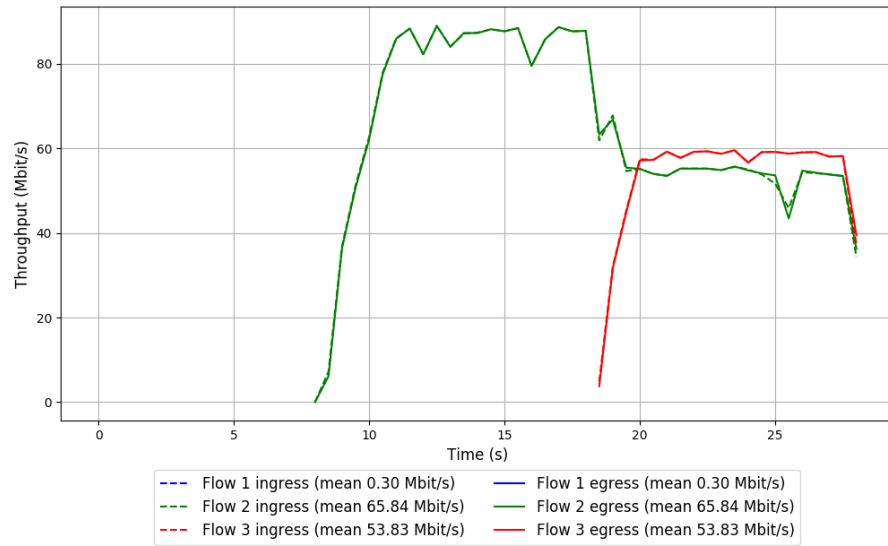


Run 10: Statistics of QUIC Cubic

Start at: 2017-08-11 12:49:34  
End at: 2017-08-11 12:50:04  
Local clock offset: 0.655 ms  
Remote clock offset: -1.682 ms

# Below is generated by plot.py at 2017-08-11 16:17:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.76 Mbit/s  
95th percentile per-packet one-way delay: 19.053 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 18.859 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 65.84 Mbit/s  
95th percentile per-packet one-way delay: 18.878 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 53.83 Mbit/s  
95th percentile per-packet one-way delay: 19.142 ms  
Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link



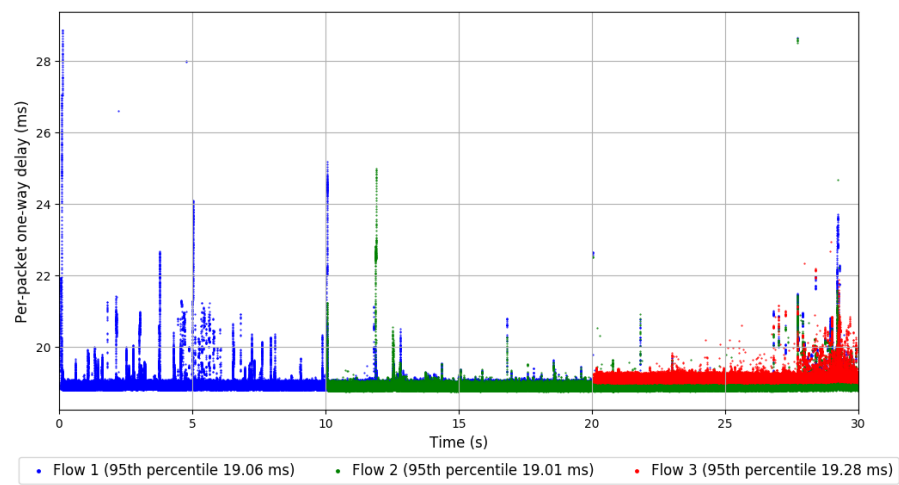
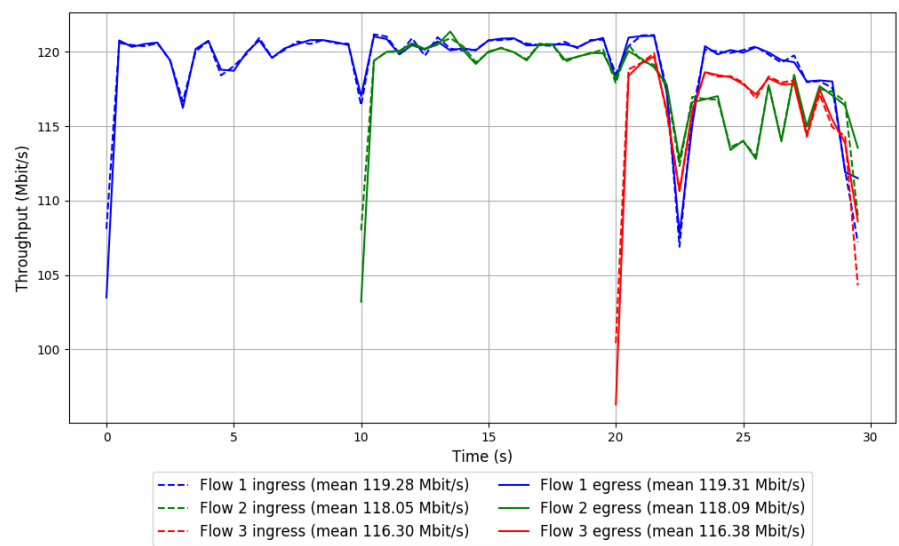
Run 1: Statistics of Saturator

Start at: 2017-08-11 09:36:32  
End at: 2017-08-11 09:37:02  
Local clock offset: 0.284 ms  
Remote clock offset: -0.696 ms

# Below is generated by plot.py at 2017-08-11 16:17:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 236.51 Mbit/s  
95th percentile per-packet one-way delay: 19.171 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 119.31 Mbit/s  
95th percentile per-packet one-way delay: 19.056 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 118.09 Mbit/s  
95th percentile per-packet one-way delay: 19.008 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 116.38 Mbit/s  
95th percentile per-packet one-way delay: 19.277 ms  
Loss rate: 0.00%



Run 1: Report of Saturator — Data Link

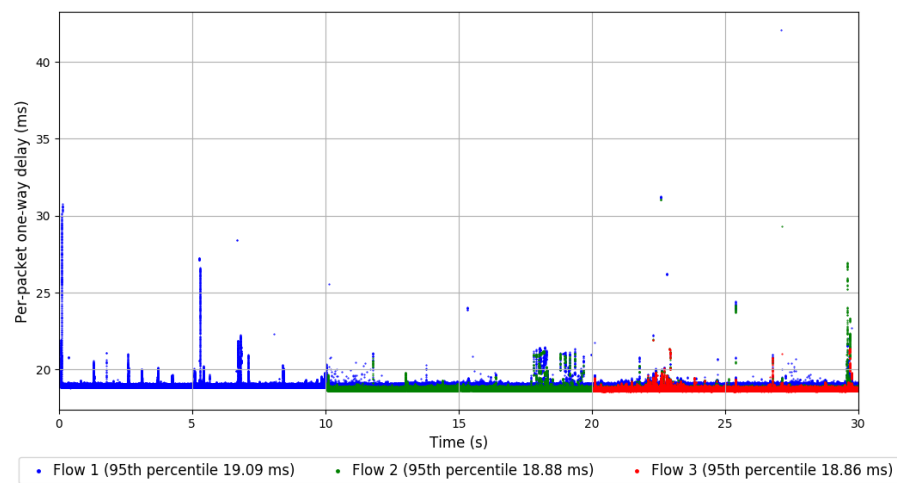
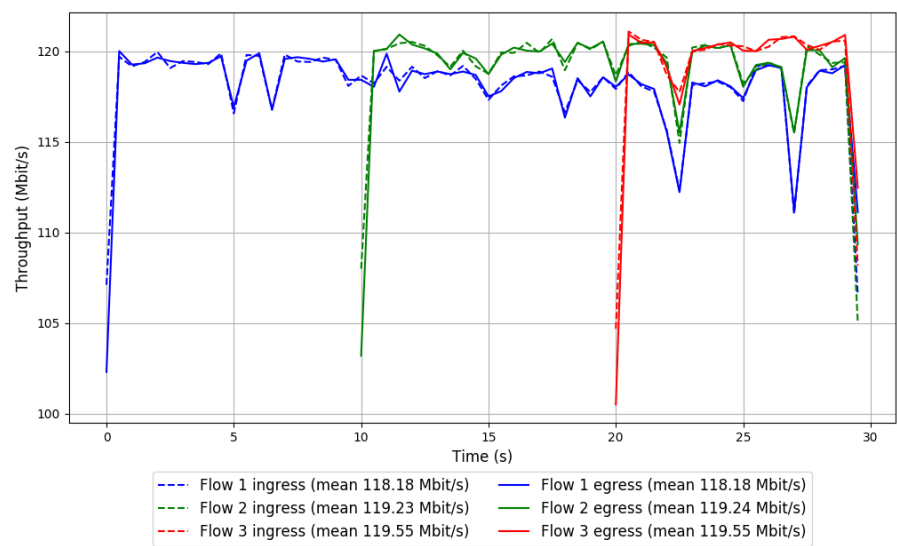


Run 2: Statistics of Saturator

Start at: 2017-08-11 09:58:05  
End at: 2017-08-11 09:58:35  
Local clock offset: 0.454 ms  
Remote clock offset: -0.948 ms

# Below is generated by plot.py at 2017-08-11 16:17:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 237.25 Mbit/s  
95th percentile per-packet one-way delay: 19.050 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 118.18 Mbit/s  
95th percentile per-packet one-way delay: 19.089 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 119.24 Mbit/s  
95th percentile per-packet one-way delay: 18.875 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 119.55 Mbit/s  
95th percentile per-packet one-way delay: 18.857 ms  
Loss rate: 0.00%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

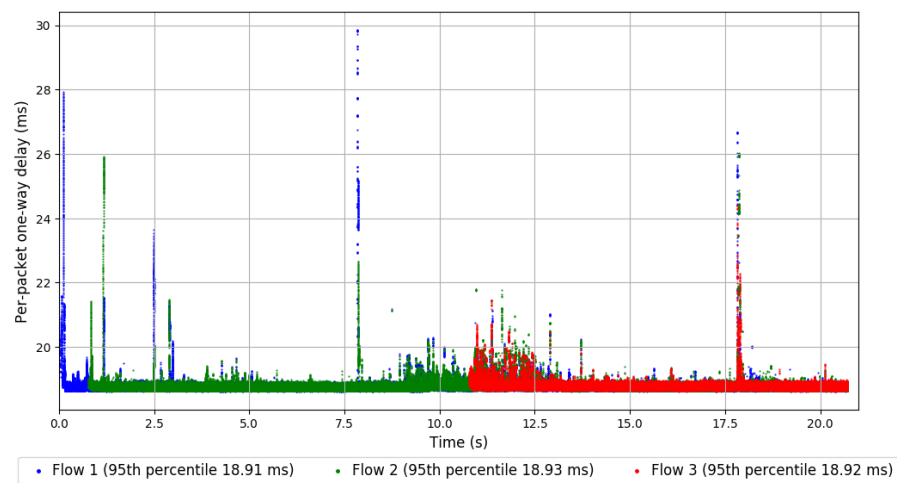
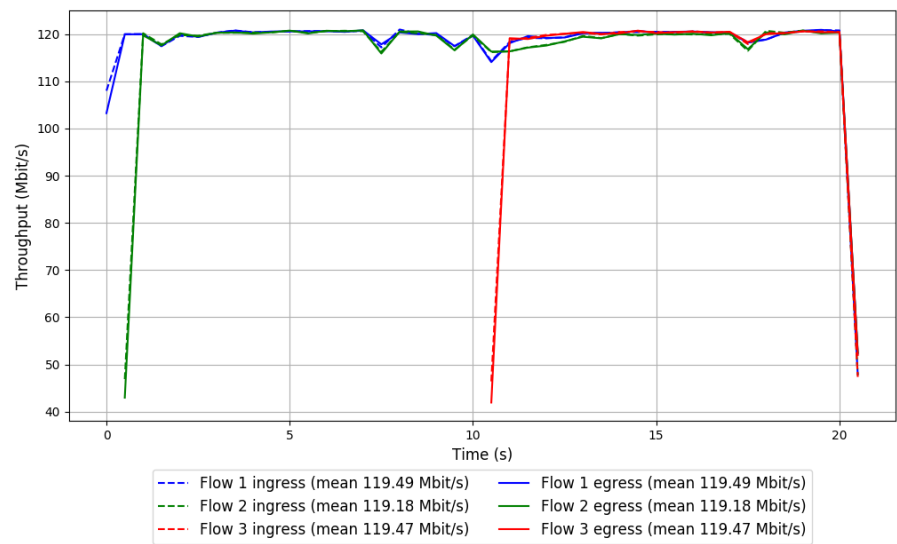
Start at: 2017-08-11 10:19:42

End at: 2017-08-11 10:20:12

Local clock offset: 0.467 ms

Remote clock offset: -1.159 ms

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

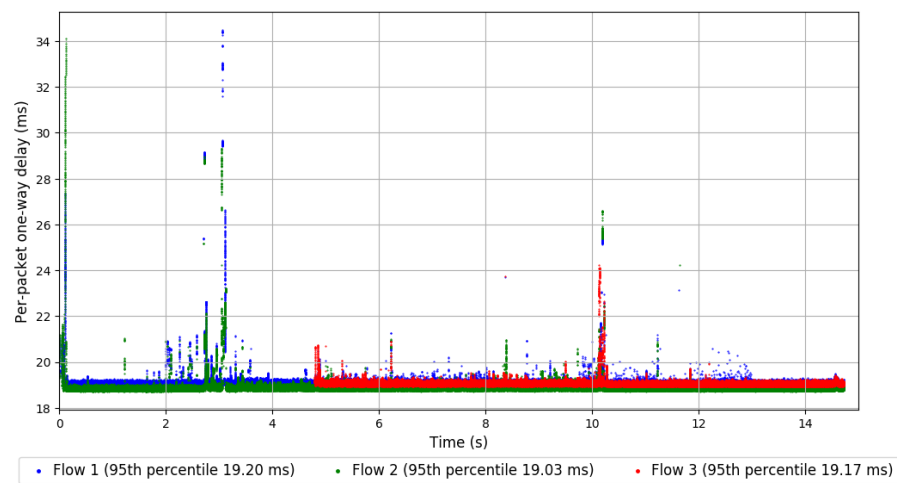
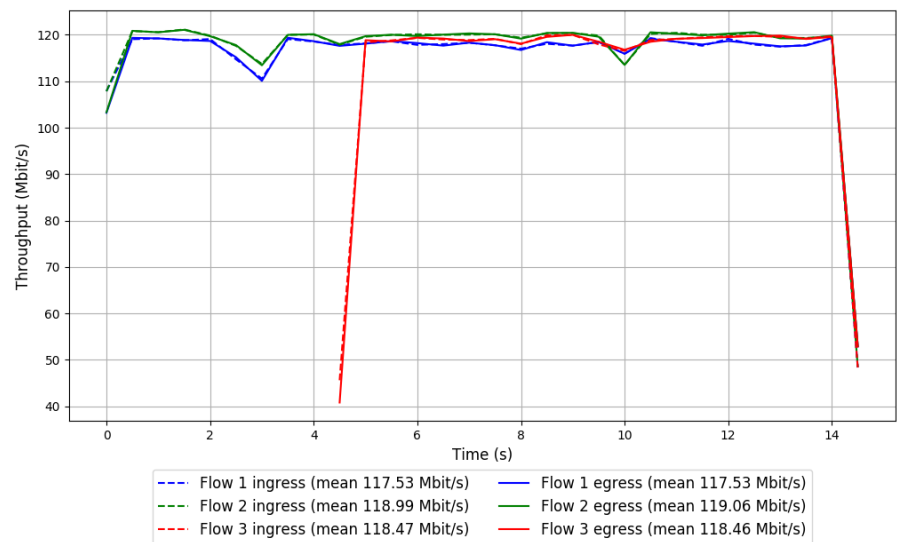
Start at: 2017-08-11 10:41:26

End at: 2017-08-11 10:41:56

Local clock offset: 0.476 ms

Remote clock offset: -1.218 ms

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: 2017-08-11 11:02:48

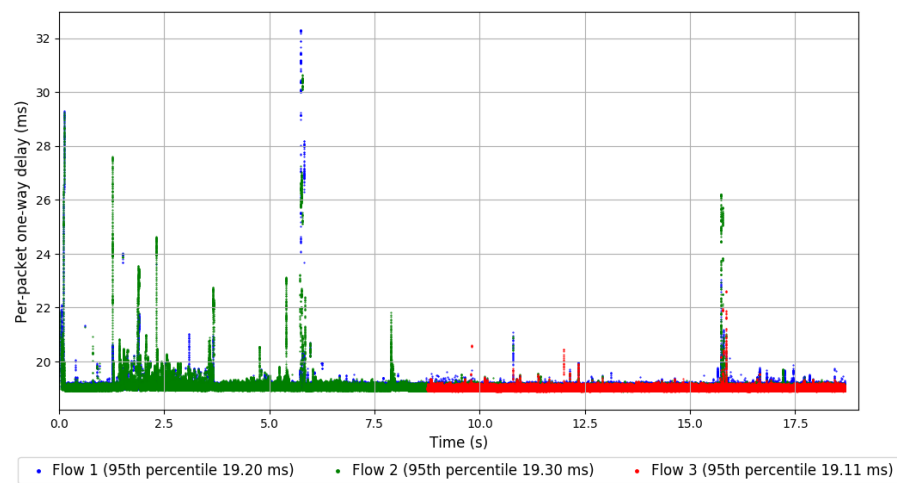
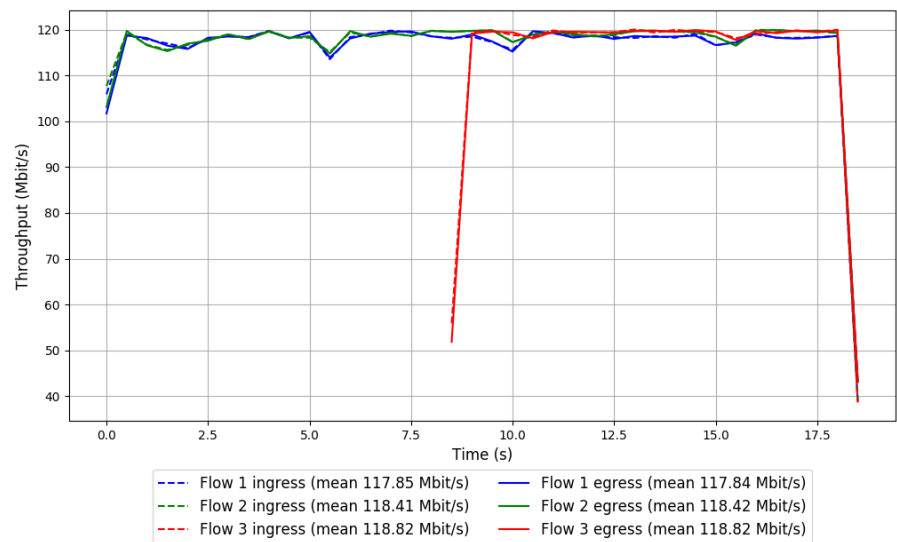
End at: 2017-08-11 11:03:18

Local clock offset: 0.607 ms

Remote clock offset: -1.162 ms



Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

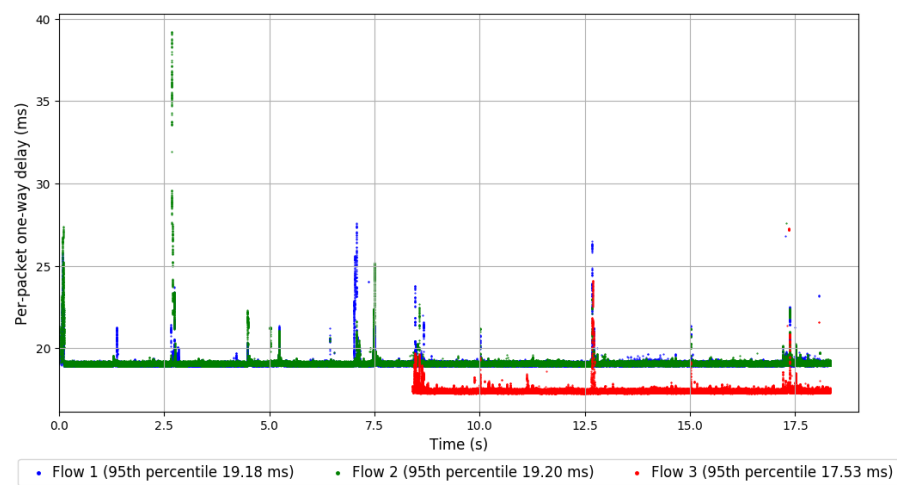
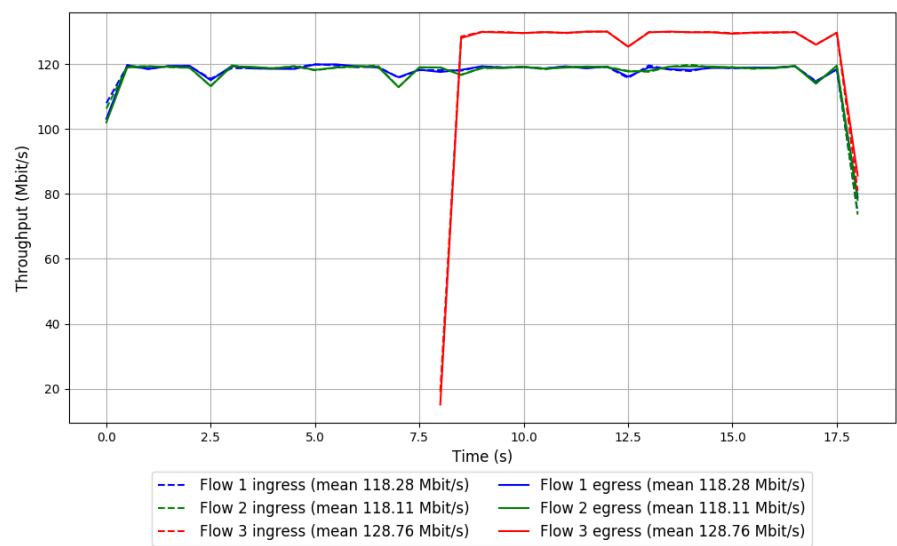
Start at: 2017-08-11 11:24:30

End at: 2017-08-11 11:25:01

Local clock offset: 0.571 ms

Remote clock offset: -1.169 ms

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

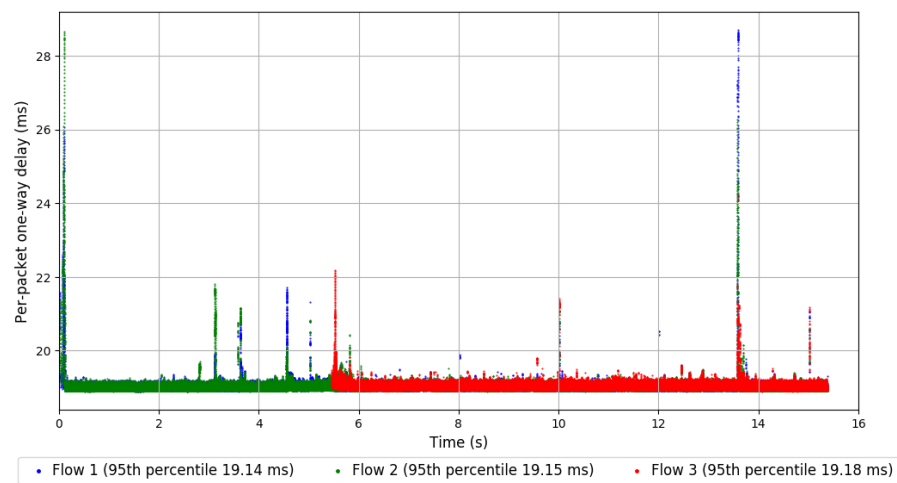
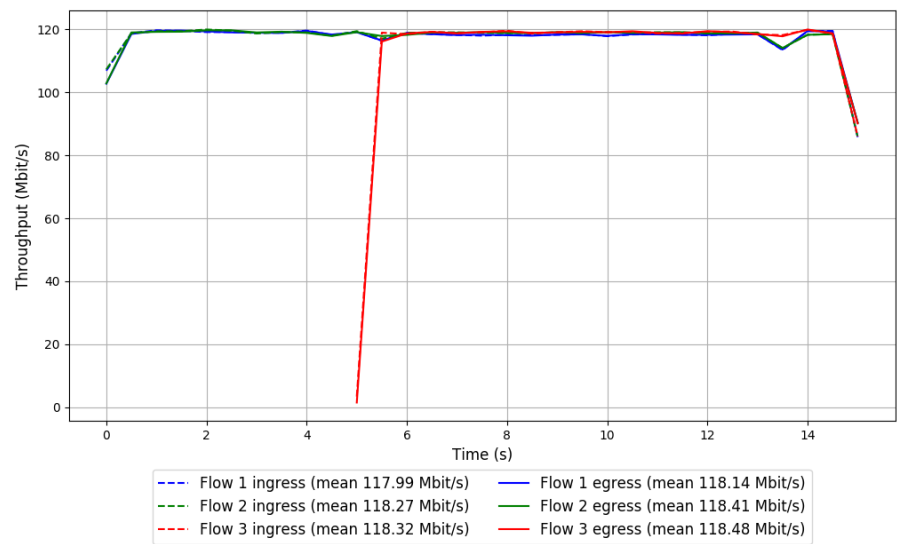
Start at: 2017-08-11 11:46:00

End at: 2017-08-11 11:46:30

Local clock offset: 0.799 ms

Remote clock offset: -1.105 ms

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

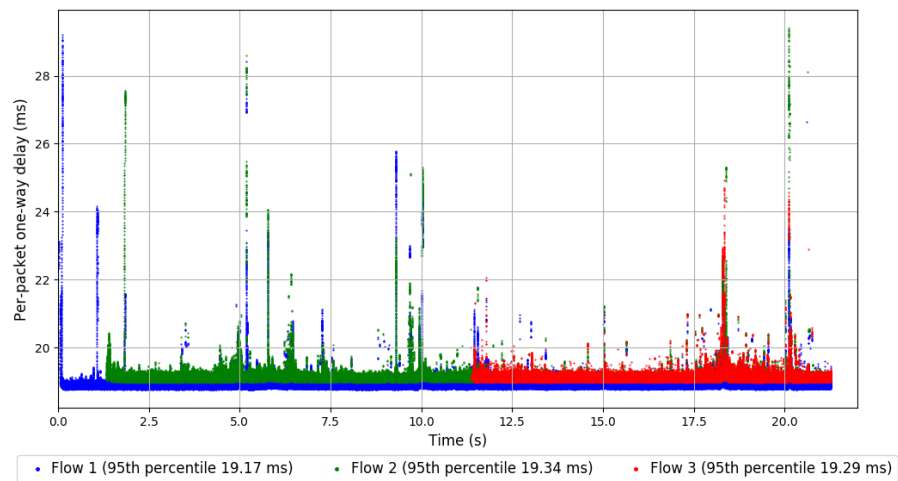
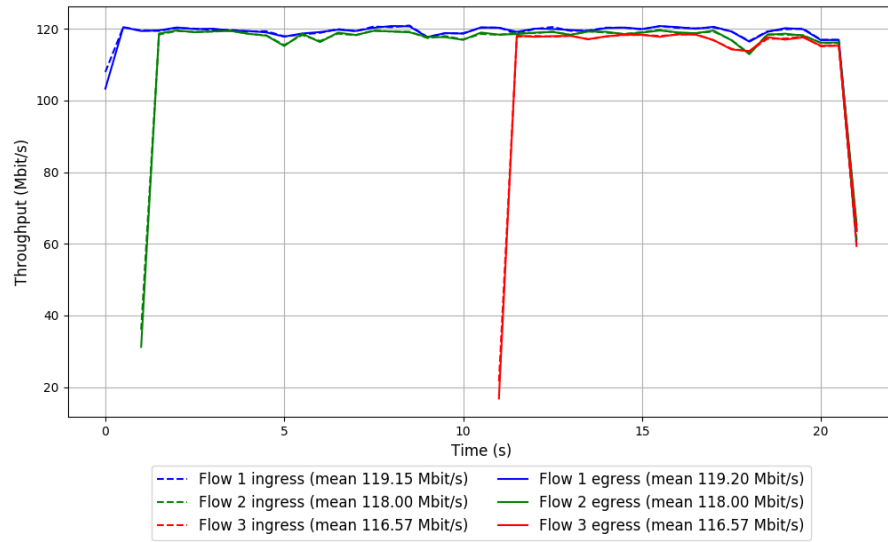
Start at: 2017-08-11 12:07:34

End at: 2017-08-11 12:08:04

Local clock offset: 0.71 ms

Remote clock offset: -1.166 ms

# Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: 2017-08-11 12:29:10

End at: 2017-08-11 12:29:40

Local clock offset: 0.759 ms

Remote clock offset: -1.55 ms

# Below is generated by plot.py at 2017-08-11 16:19:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 237.59 Mbit/s

95th percentile per-packet one-way delay: 19.046 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 119.02 Mbit/s

95th percentile per-packet one-way delay: 19.034 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 119.01 Mbit/s

95th percentile per-packet one-way delay: 19.048 ms

Loss rate: 0.00%

-- Flow 3:

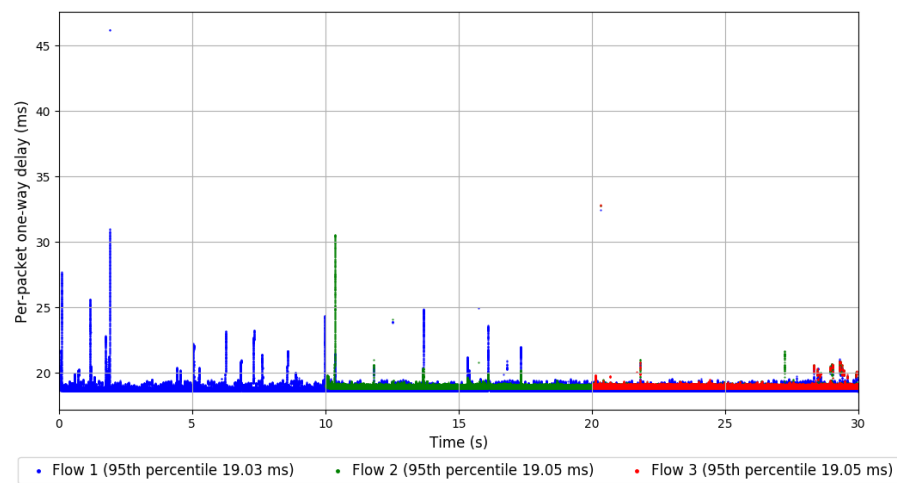
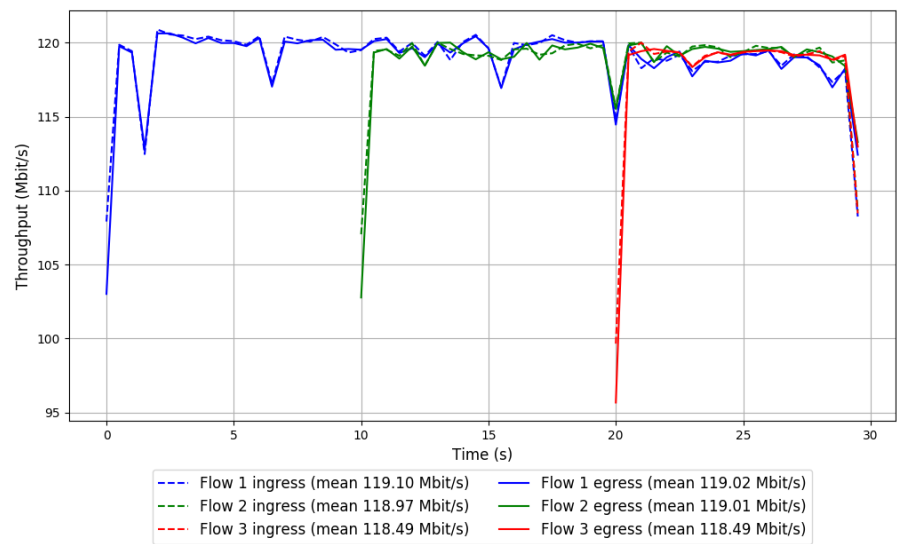
Average throughput: 118.49 Mbit/s

95th percentile per-packet one-way delay: 19.047 ms

Loss rate: 0.00%



Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

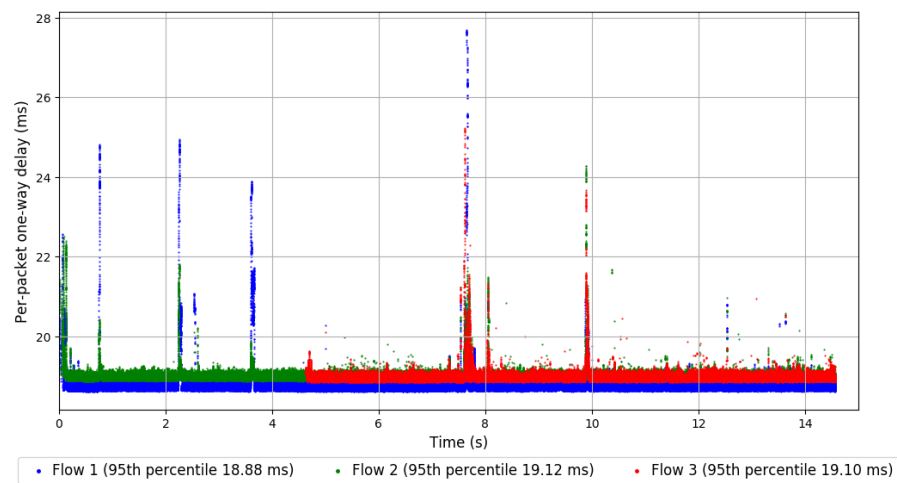
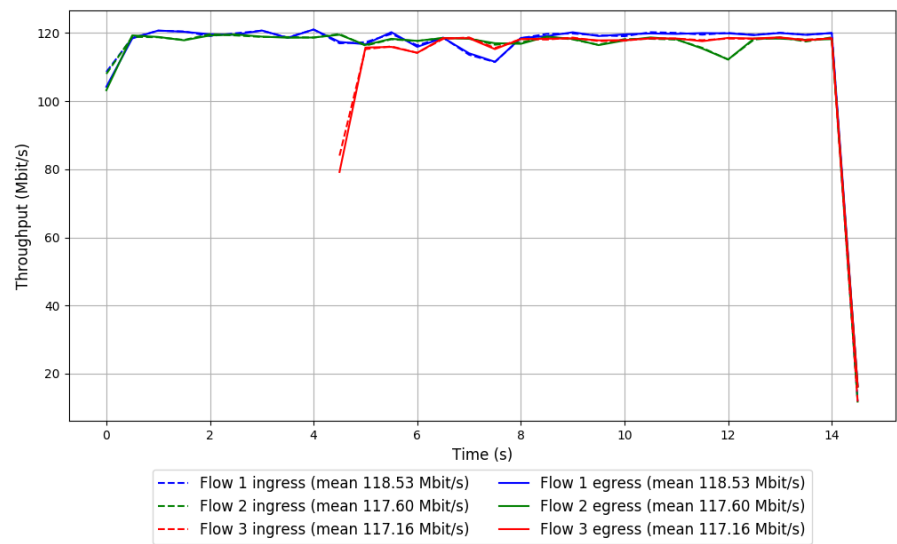
Start at: 2017-08-11 12:50:48

End at: 2017-08-11 12:51:18

Local clock offset: 0.687 ms

Remote clock offset: -1.72 ms

Run 10: Report of Saturator — Data Link

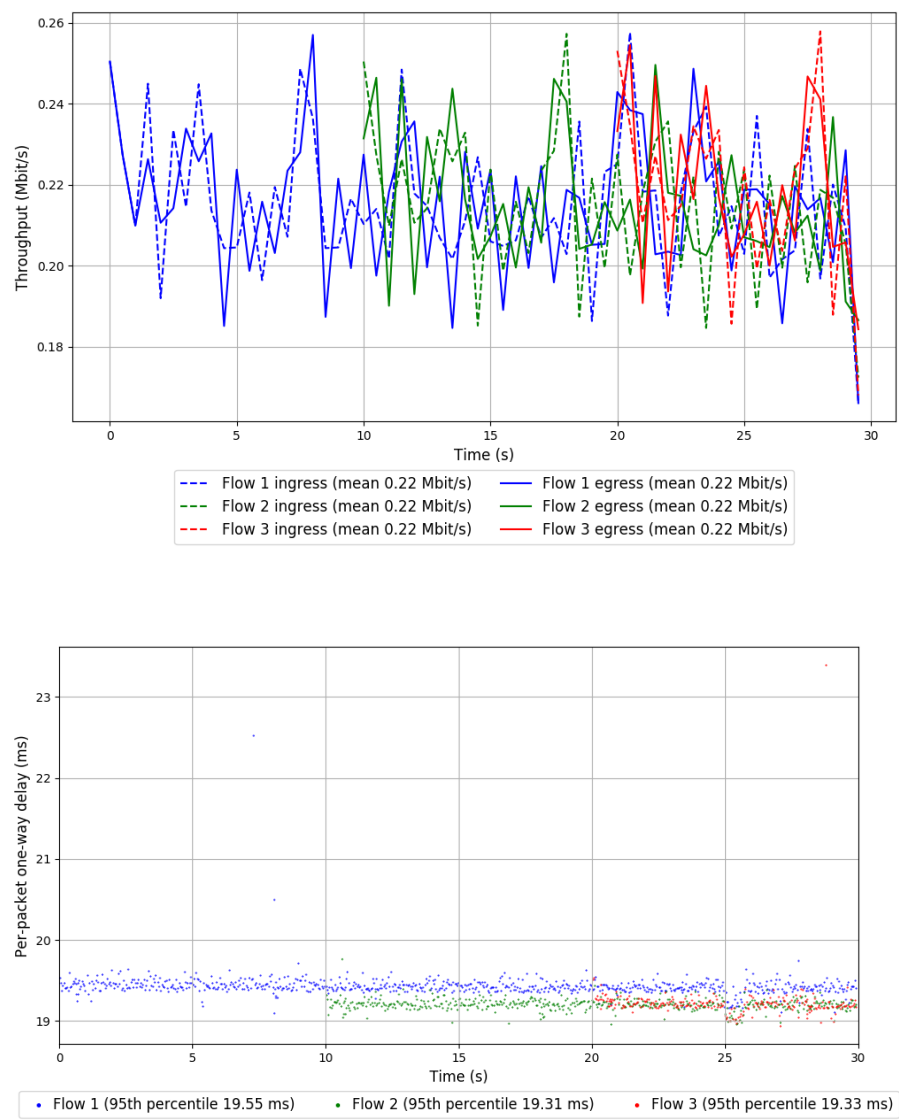


```
Run 1: Statistics of SReAM

Start at: 2017-08-11 09:21:06
End at: 2017-08-11 09:21:36
Local clock offset: 0.24 ms
Remote clock offset: -0.48 ms

# Below is generated by plot.py at 2017-08-11 16:19:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.511 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.549 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.312 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.334 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

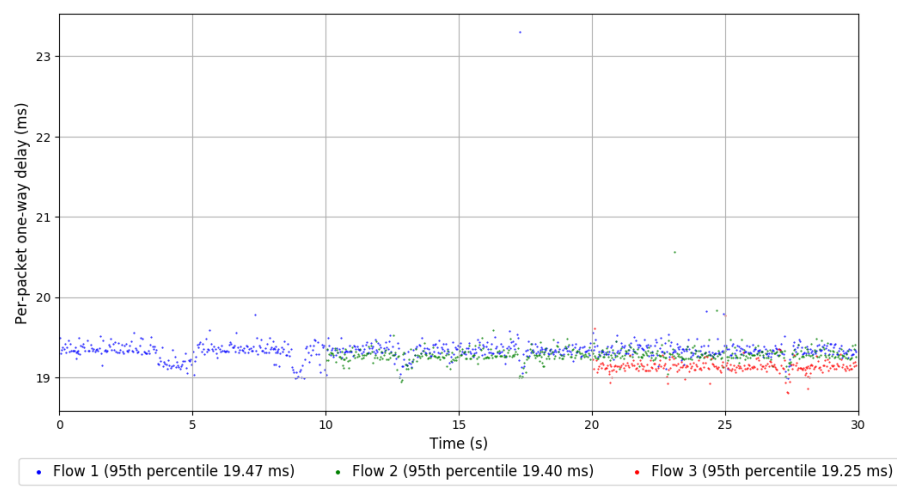
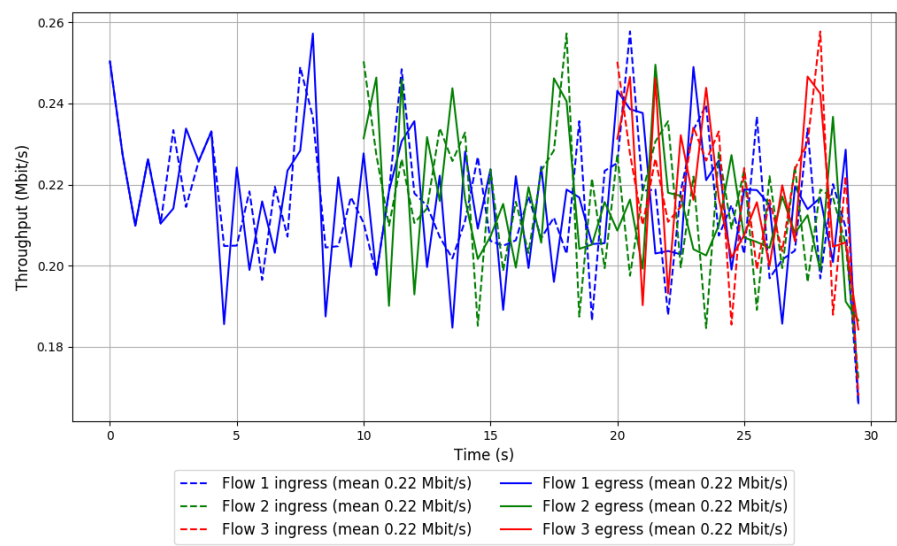


Run 2: Statistics of SReAM

Start at: 2017-08-11 09:42:36  
End at: 2017-08-11 09:43:06  
Local clock offset: 0.295 ms  
Remote clock offset: -0.847 ms

# Below is generated by plot.py at 2017-08-11 16:19:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.443 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.470 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.404 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.249 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



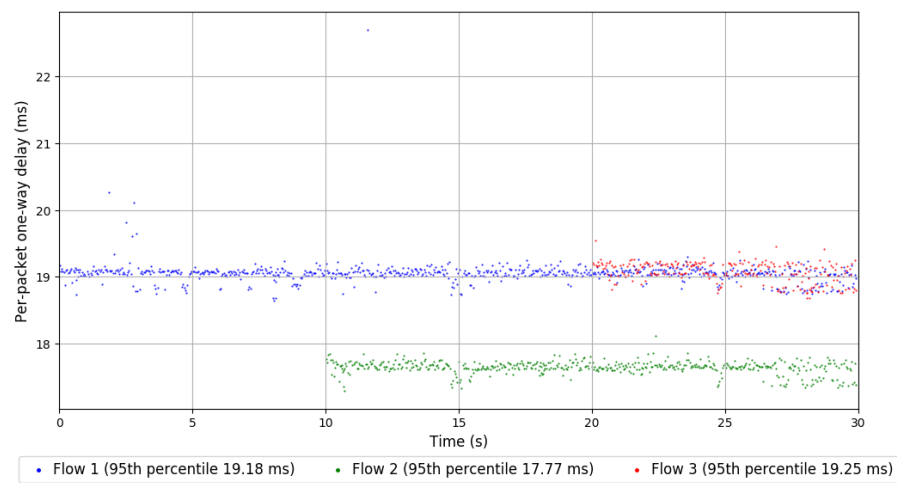
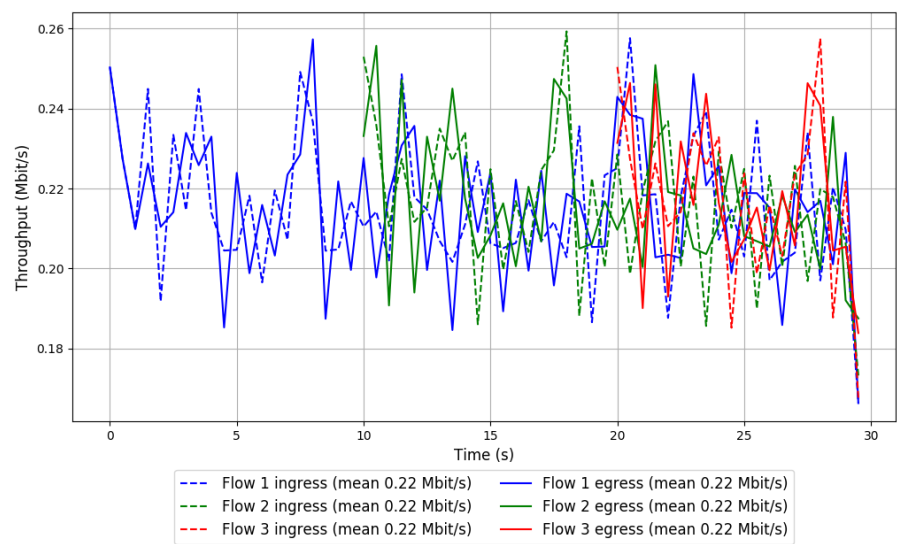
Run 3: Statistics of SReAM

Start at: 2017-08-11 10:03:59  
End at: 2017-08-11 10:04:29  
Local clock offset: 0.46 ms  
Remote clock offset: -1.034 ms

# Below is generated by plot.py at 2017-08-11 16:19:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.198 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.182 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.774 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.245 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-08-11 10:25:42

End at: 2017-08-11 10:26:12

Local clock offset: 0.429 ms

Remote clock offset: -1.19 ms

# Below is generated by plot.py at 2017-08-11 16:19:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.391 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.434 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.201 ms

Loss rate: 0.00%

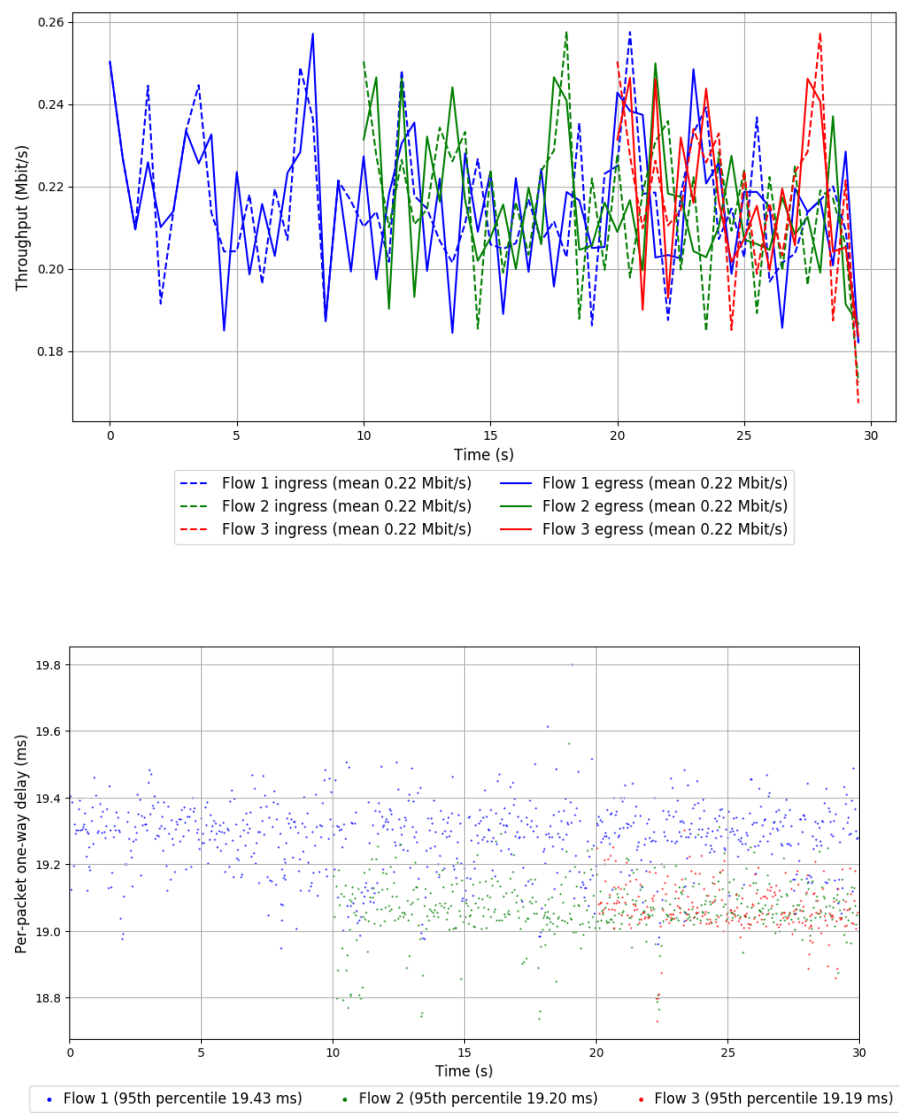
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.189 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

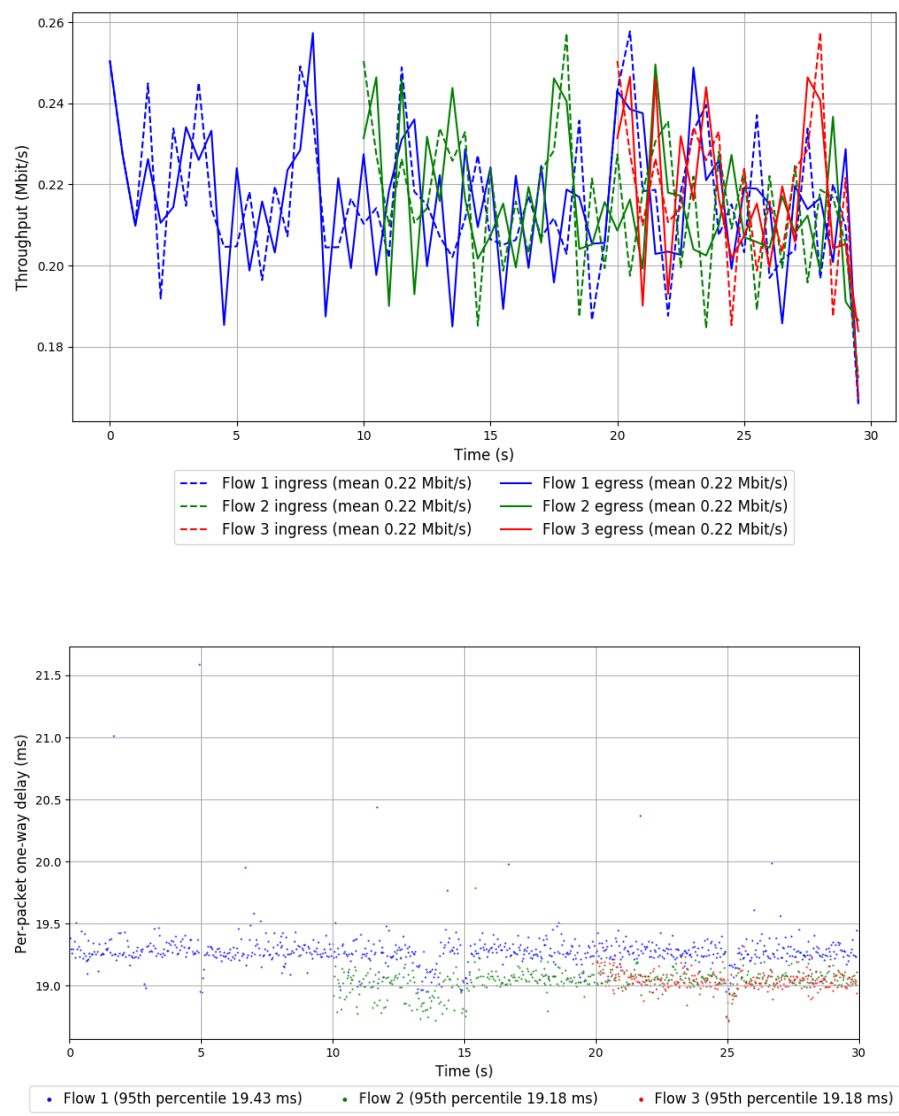


Run 5: Statistics of SReAM

Start at: 2017-08-11 10:47:22  
End at: 2017-08-11 10:47:52  
Local clock offset: 0.57 ms  
Remote clock offset: -1.218 ms

# Below is generated by plot.py at 2017-08-11 16:19:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.375 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.425 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.180 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.183 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-08-11 11:08:45

End at: 2017-08-11 11:09:15

Local clock offset: 0.516 ms

Remote clock offset: -1.2 ms

# Below is generated by plot.py at 2017-08-11 16:19:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.426 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.250 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.495 ms

Loss rate: 0.00%

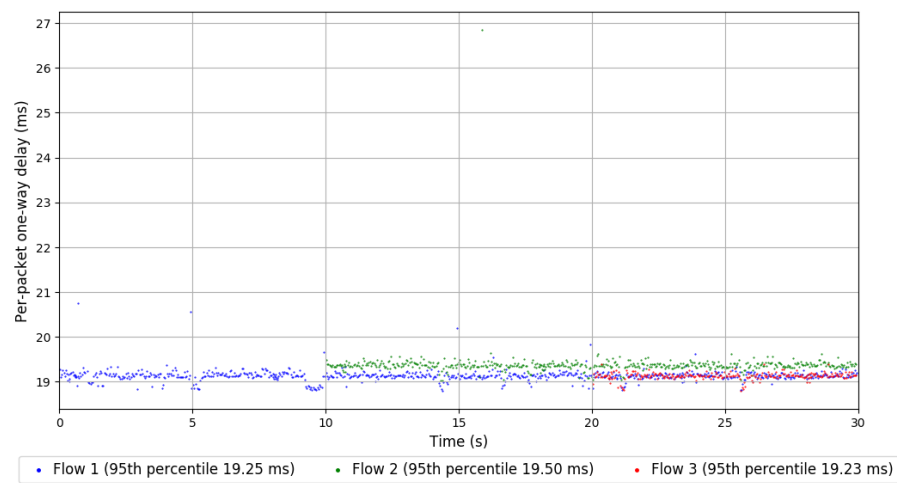
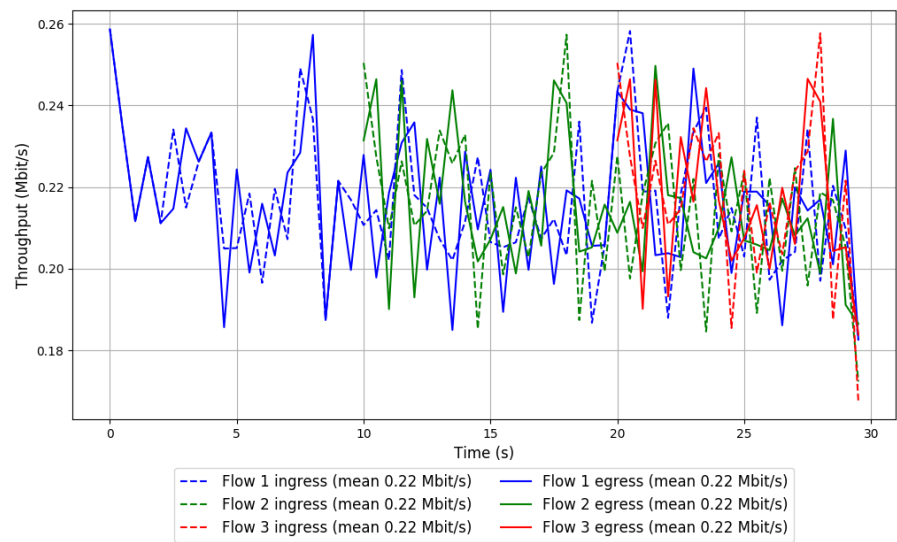
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.225 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-08-11 11:30:32

End at: 2017-08-11 11:31:02

Local clock offset: 0.709 ms

Remote clock offset: -1.13 ms

# Below is generated by plot.py at 2017-08-11 16:19:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.393 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.414 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.184 ms

Loss rate: 0.00%

-- Flow 3:

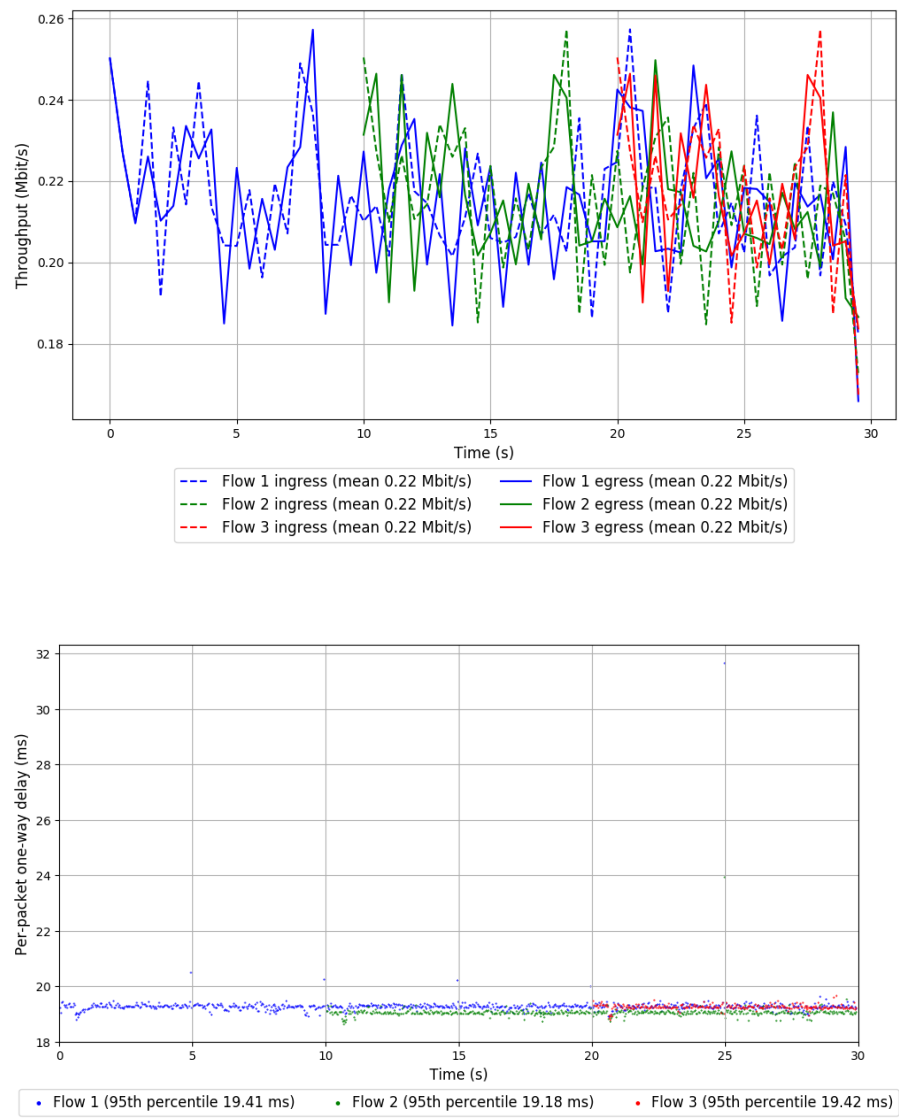
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.418 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

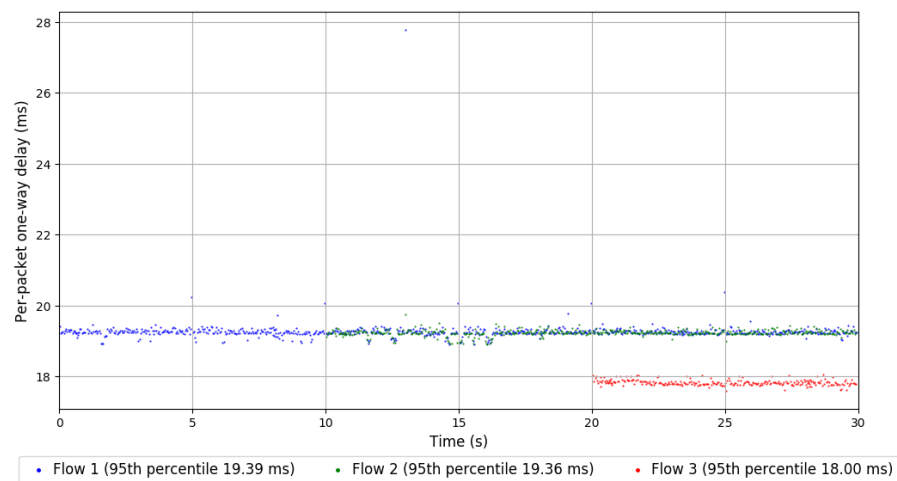
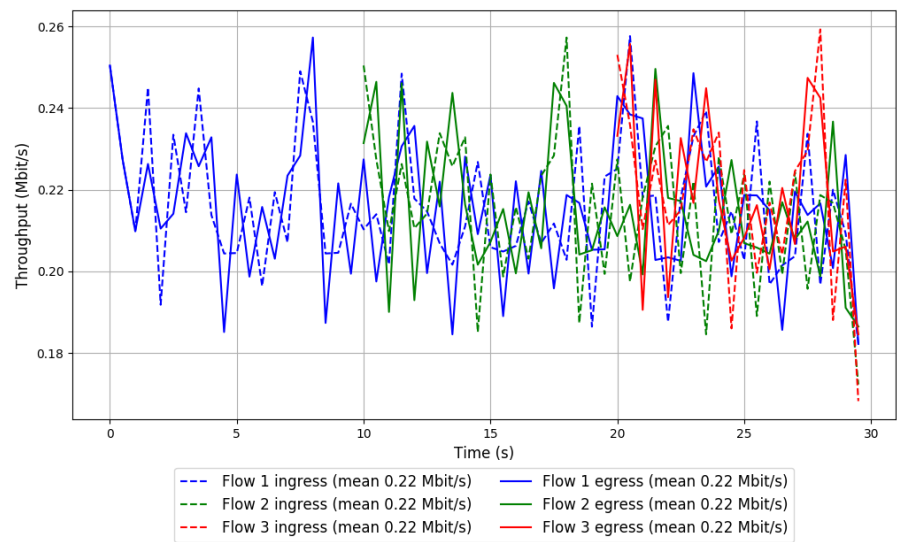


Run 8: Statistics of SReAM

Start at: 2017-08-11 11:51:51  
End at: 2017-08-11 11:52:21  
Local clock offset: 0.751 ms  
Remote clock offset: -1.074 ms

# Below is generated by plot.py at 2017-08-11 16:19:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.367 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.385 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.363 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.999 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

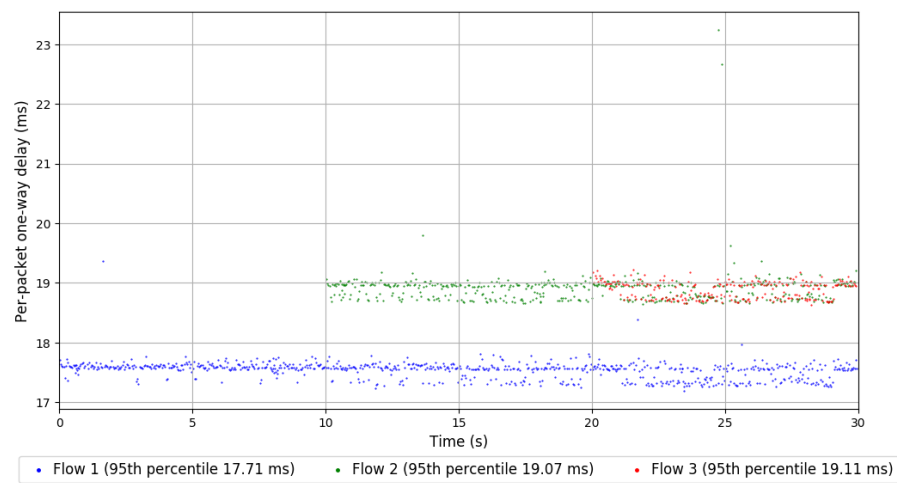
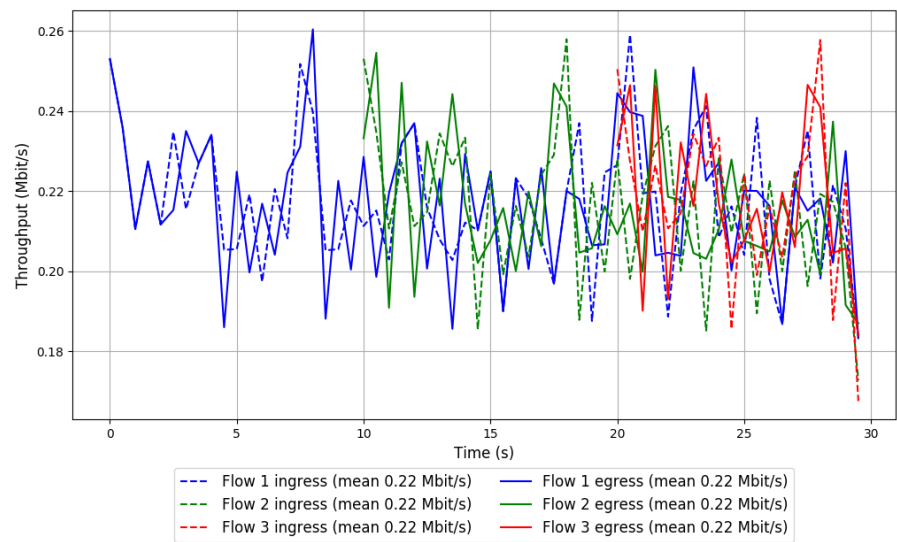


Run 9: Statistics of SReAM

Start at: 2017-08-11 12:13:34  
End at: 2017-08-11 12:14:04  
Local clock offset: 0.764 ms  
Remote clock offset: -1.273 ms

# Below is generated by plot.py at 2017-08-11 16:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.040 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.710 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.072 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.108 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

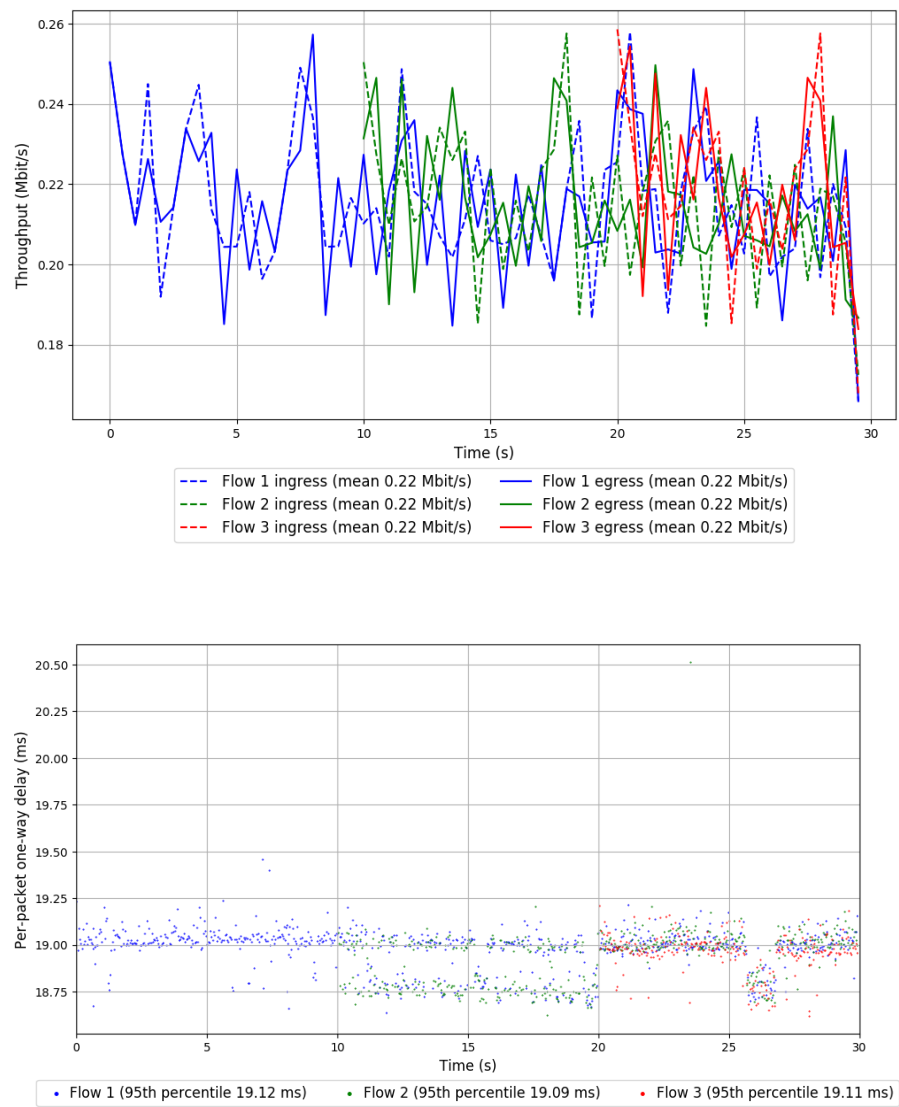


Run 10: Statistics of SReAM

Start at: 2017-08-11 12:35:17  
End at: 2017-08-11 12:35:47  
Local clock offset: 0.75 ms  
Remote clock offset: -1.584 ms

# Below is generated by plot.py at 2017-08-11 16:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.102 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.116 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.085 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.105 ms  
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



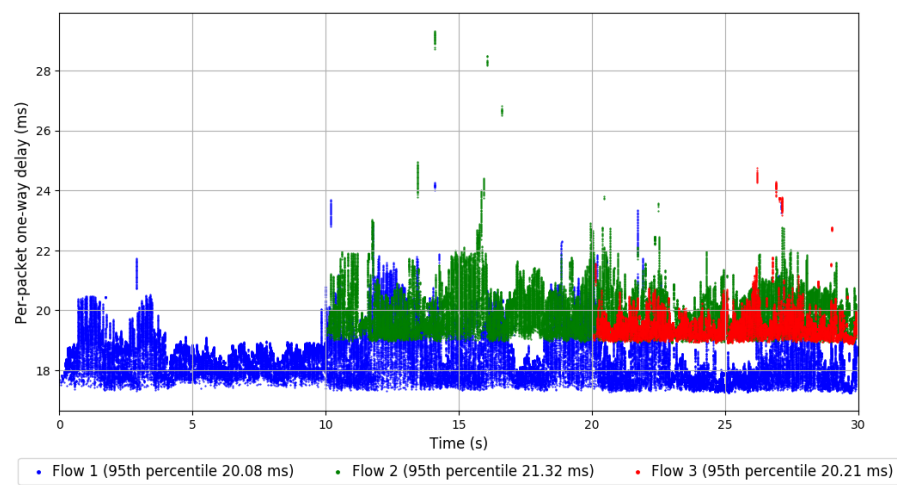
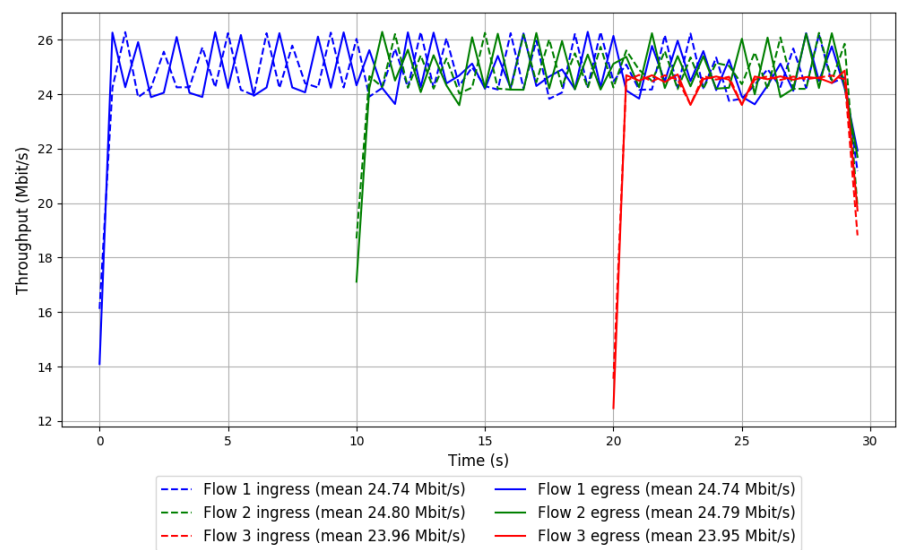
Run 1: Statistics of Sprout

Start at: 2017-08-11 09:26:39  
End at: 2017-08-11 09:27:09  
Local clock offset: 0.358 ms  
Remote clock offset: -0.538 ms

# Below is generated by plot.py at 2017-08-11 16:19:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.13 Mbit/s  
95th percentile per-packet one-way delay: 20.777 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 24.74 Mbit/s  
95th percentile per-packet one-way delay: 20.080 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.79 Mbit/s  
95th percentile per-packet one-way delay: 21.318 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 23.95 Mbit/s  
95th percentile per-packet one-way delay: 20.206 ms  
Loss rate: 0.00%



Run 1: Report of Sprout — Data Link

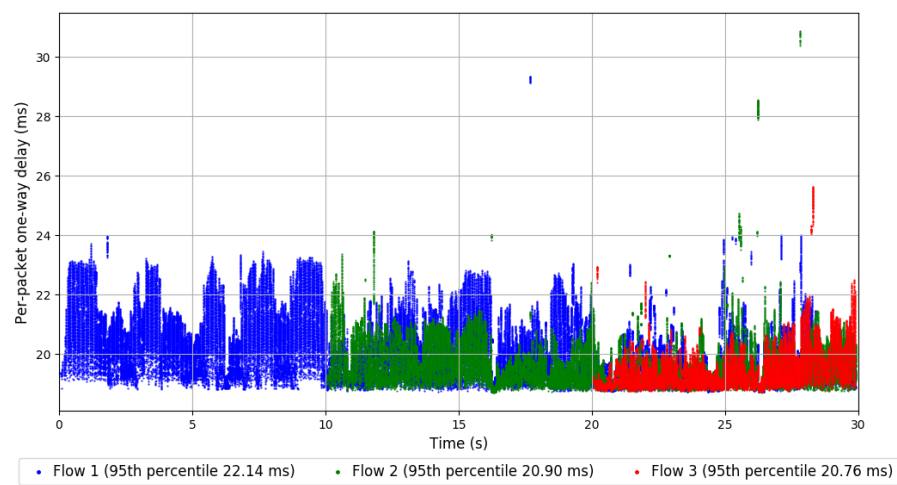
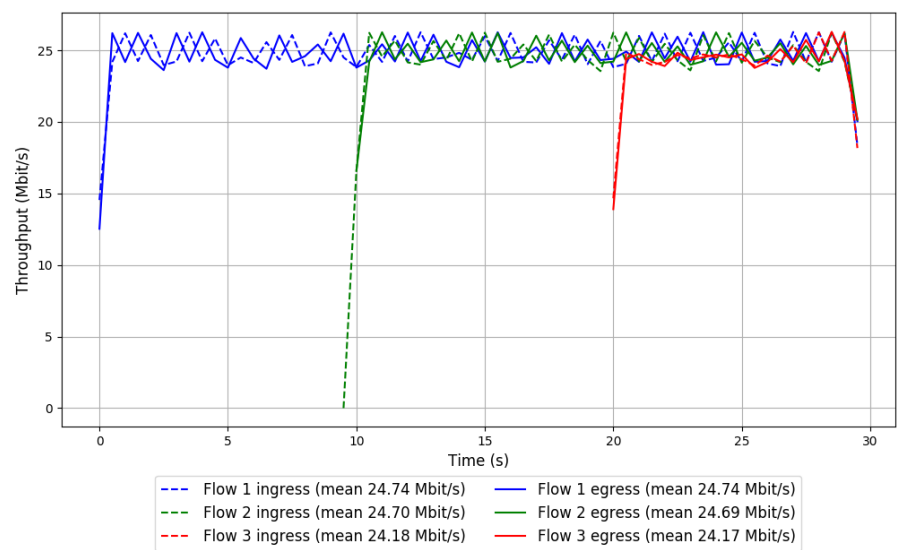


Run 2: Statistics of Sprout

Start at: 2017-08-11 09:48:13  
End at: 2017-08-11 09:48:43  
Local clock offset: 0.367 ms  
Remote clock offset: -0.832 ms

# Below is generated by plot.py at 2017-08-11 16:19:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.14 Mbit/s  
95th percentile per-packet one-way delay: 21.710 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.74 Mbit/s  
95th percentile per-packet one-way delay: 22.142 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.69 Mbit/s  
95th percentile per-packet one-way delay: 20.900 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 24.17 Mbit/s  
95th percentile per-packet one-way delay: 20.756 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

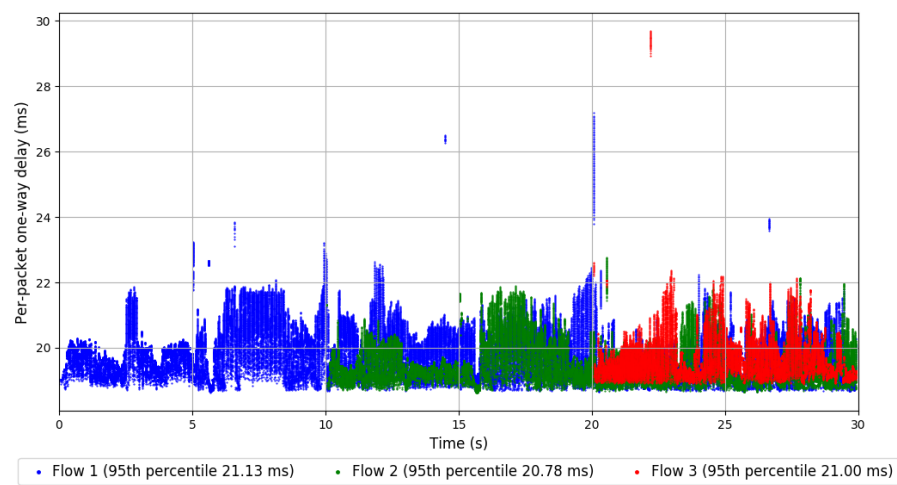
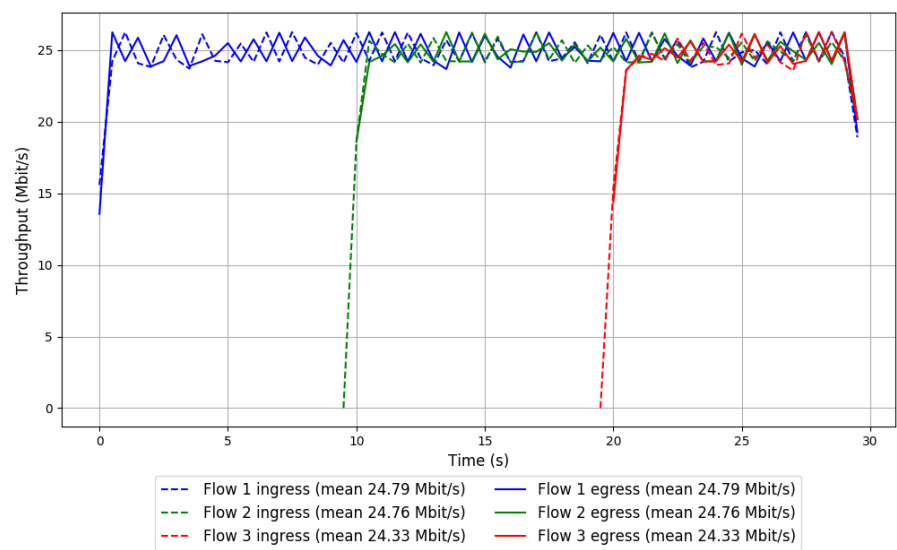


### Run 3: Statistics of Sprout

Start at: 2017-08-11 10:09:33  
End at: 2017-08-11 10:10:03  
Local clock offset: 0.439 ms  
Remote clock offset: -1.124 ms

```
# Below is generated by plot.py at 2017-08-11 16:19:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.32 Mbit/s
95th percentile per-packet one-way delay: 21.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 21.130 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 20.784 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 20.998 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

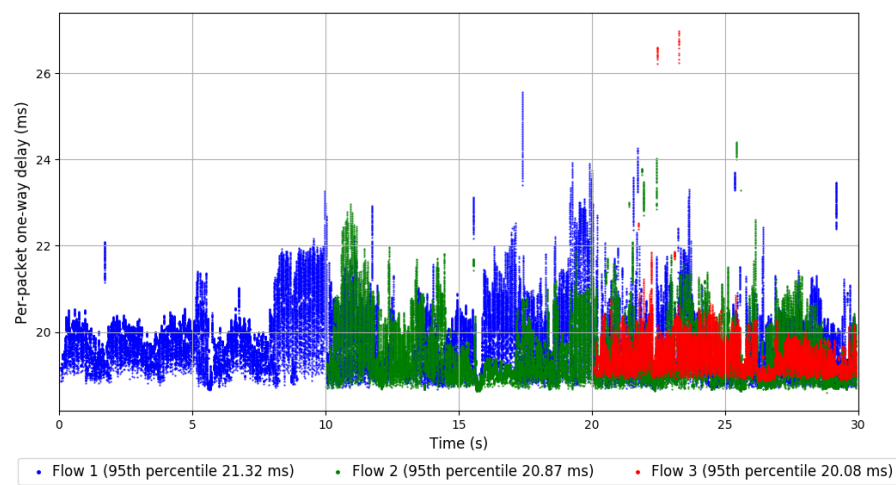
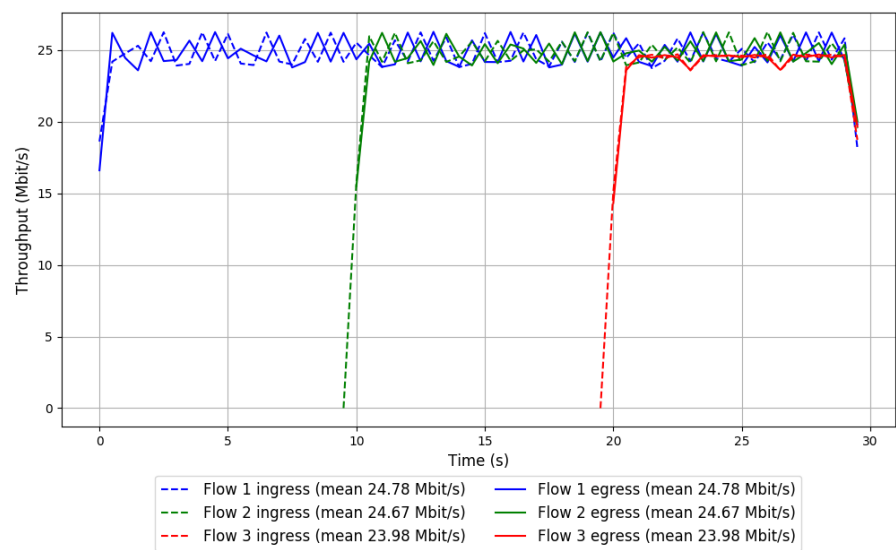


#### Run 4: Statistics of Sprout

Start at: 2017-08-11 10:31:16  
End at: 2017-08-11 10:31:46  
Local clock offset: 0.511 ms  
Remote clock offset: -1.2 ms

```
# Below is generated by plot.py at 2017-08-11 16:19:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.14 Mbit/s
95th percentile per-packet one-way delay: 21.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 21.318 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 20.871 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 20.084 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



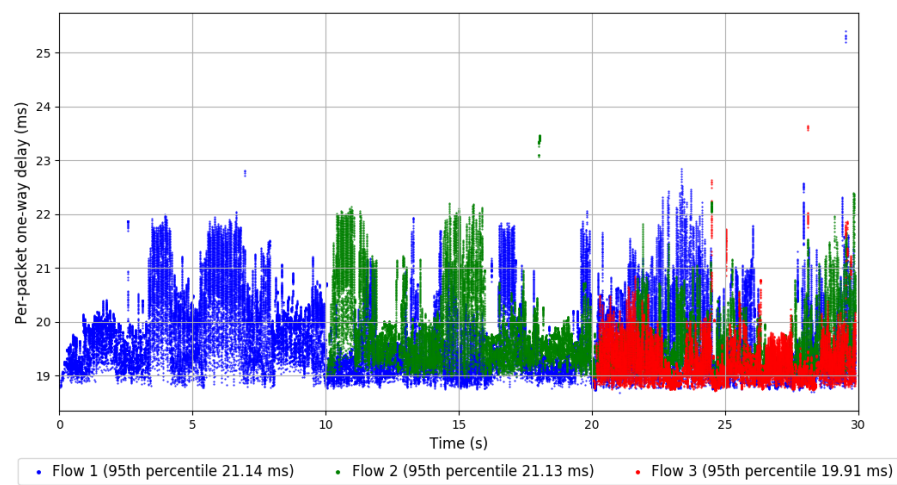
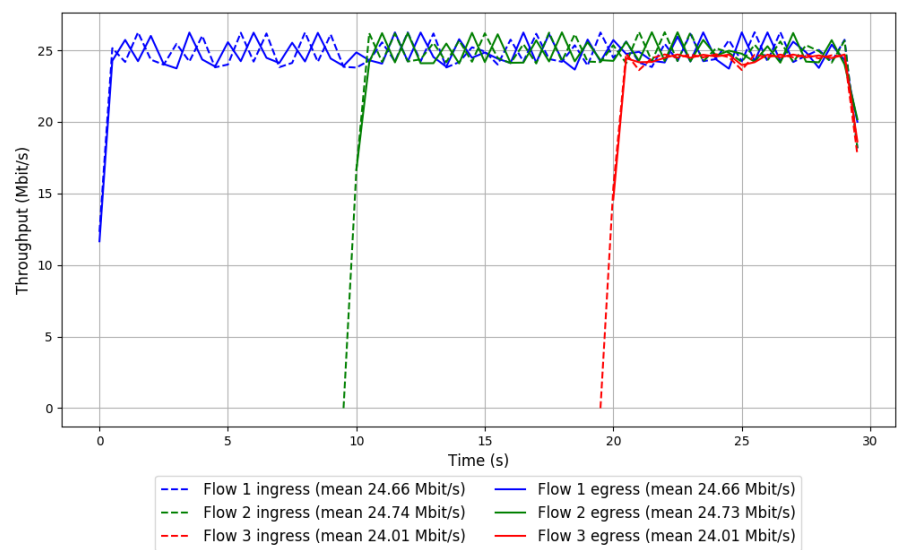
Run 5: Statistics of Sprout

Start at: 2017-08-11 10:52:52  
End at: 2017-08-11 10:53:22  
Local clock offset: 0.481 ms  
Remote clock offset: -1.283 ms

```
# Below is generated by plot.py at 2017-08-11 16:19:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 21.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 21.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 21.130 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 19.905 ms
Loss rate: 0.00%
```



Run 5: Report of Sprout — Data Link

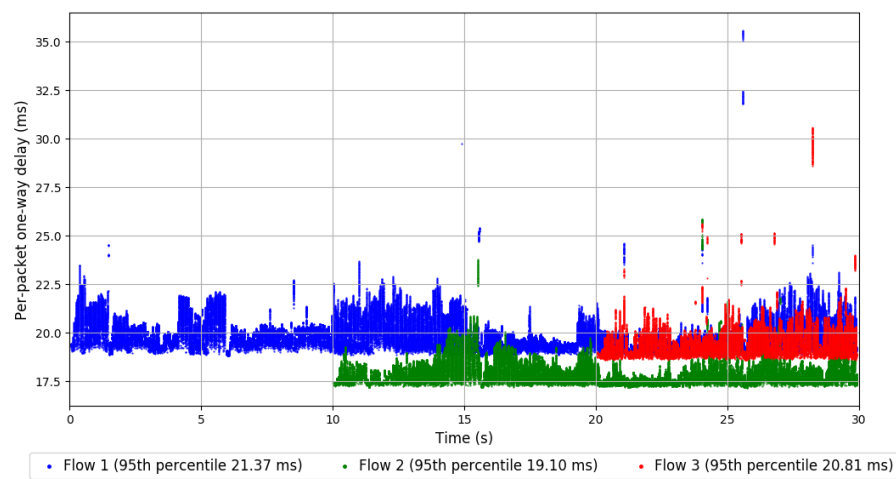
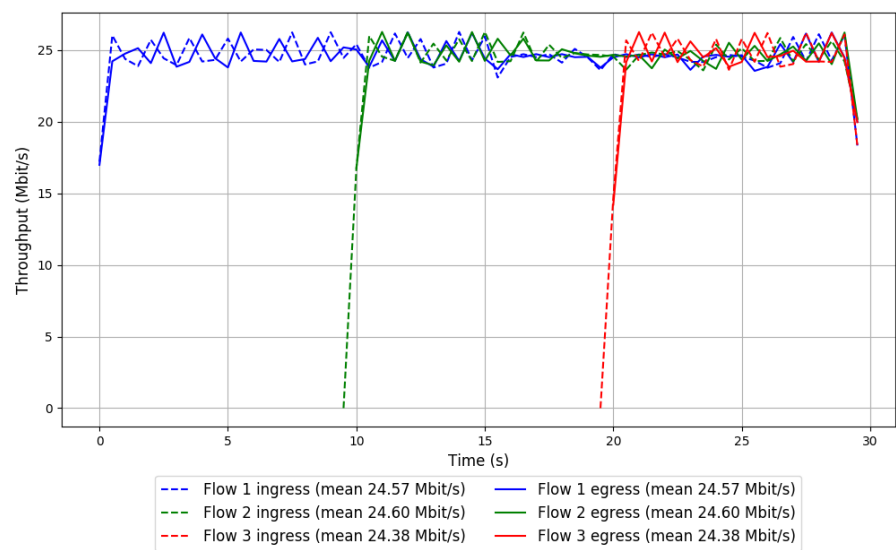


Run 6: Statistics of Sprout

Start at: 2017-08-11 11:14:19  
End at: 2017-08-11 11:14:49  
Local clock offset: 0.654 ms  
Remote clock offset: -1.209 ms

# Below is generated by plot.py at 2017-08-11 16:19:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.01 Mbit/s  
95th percentile per-packet one-way delay: 21.066 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.57 Mbit/s  
95th percentile per-packet one-way delay: 21.368 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.60 Mbit/s  
95th percentile per-packet one-way delay: 19.097 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.38 Mbit/s  
95th percentile per-packet one-way delay: 20.813 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

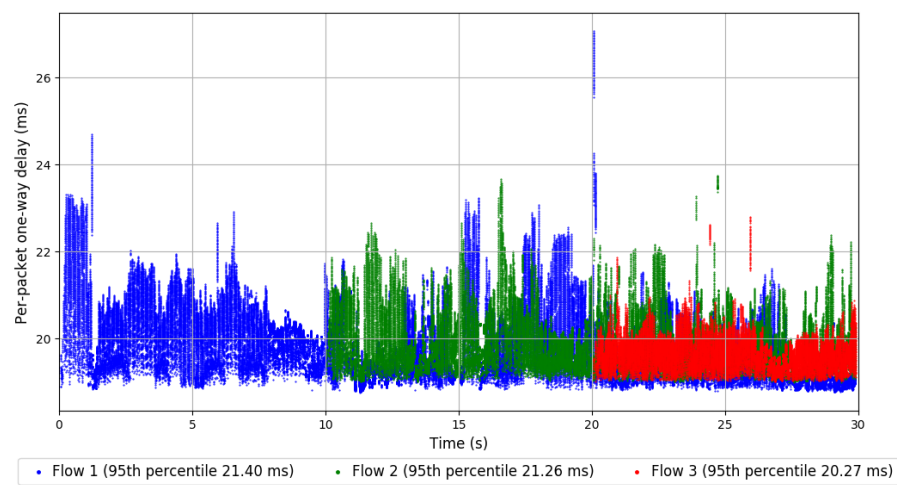
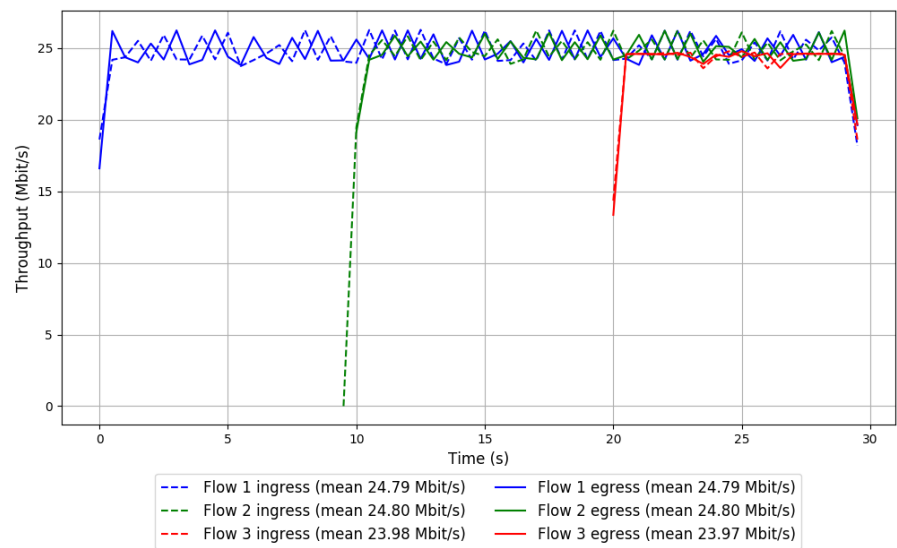


Run 7: Statistics of Sprout

Start at: 2017-08-11 11:36:06  
End at: 2017-08-11 11:36:36  
Local clock offset: 0.644 ms  
Remote clock offset: -1.112 ms

```
# Below is generated by plot.py at 2017-08-11 16:19:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 21.239 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 21.398 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.80 Mbit/s
95th percentile per-packet one-way delay: 21.262 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 20.269 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-11 11:57:28

End at: 2017-08-11 11:57:58

Local clock offset: 0.791 ms

Remote clock offset: -1.22 ms

# Below is generated by plot.py at 2017-08-11 16:19:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.38 Mbit/s

95th percentile per-packet one-way delay: 21.207 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.79 Mbit/s

95th percentile per-packet one-way delay: 21.272 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 21.188 ms

Loss rate: 0.00%

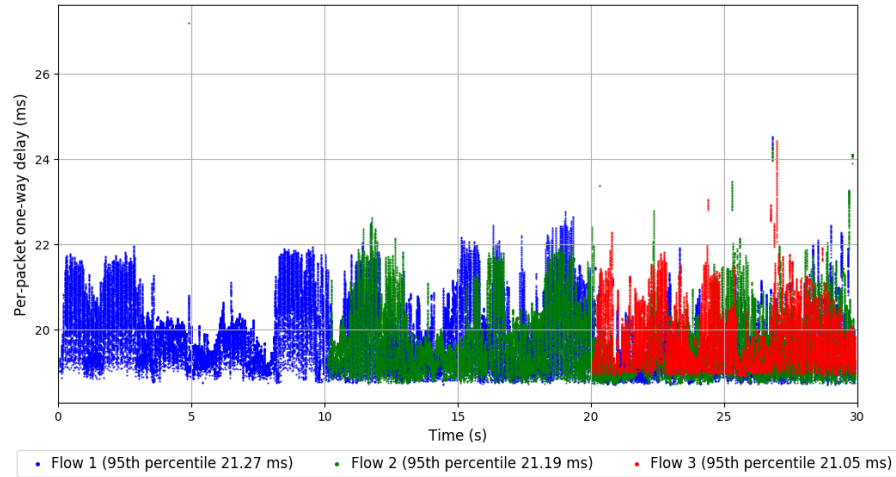
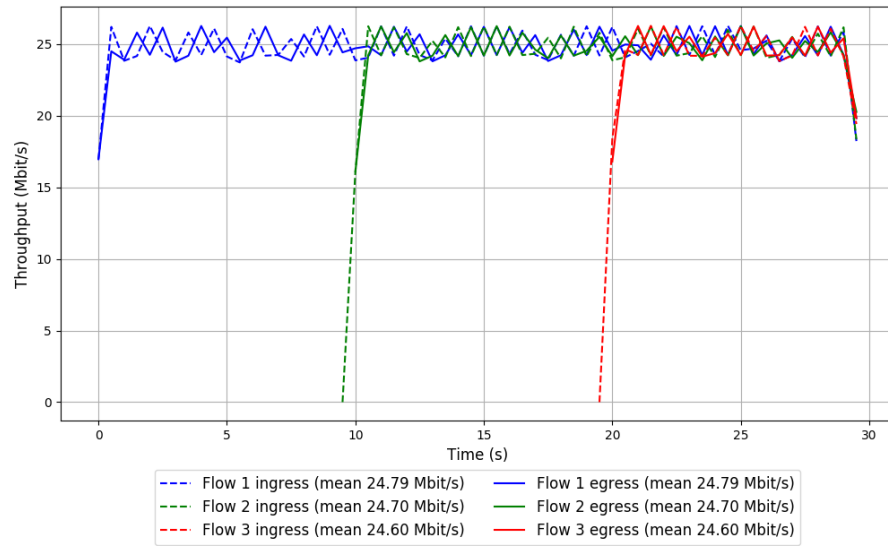
-- Flow 3:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 21.055 ms

Loss rate: 0.00%

## Run 8: Report of Sprout — Data Link



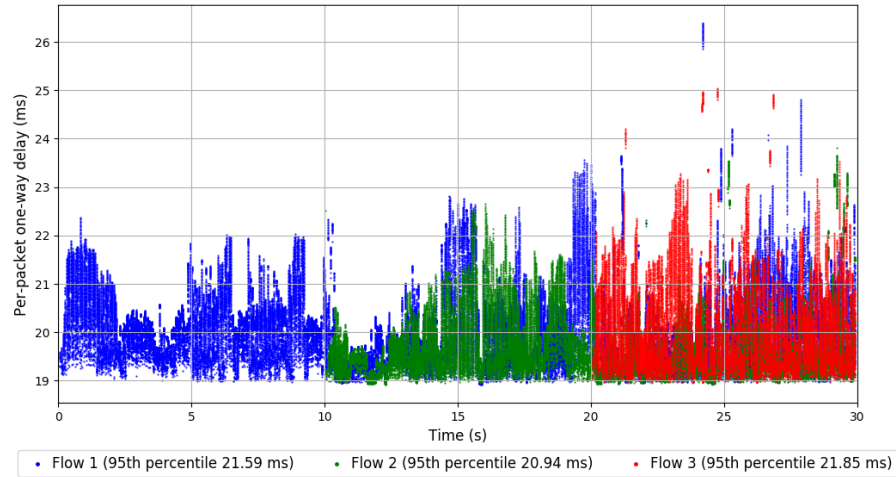
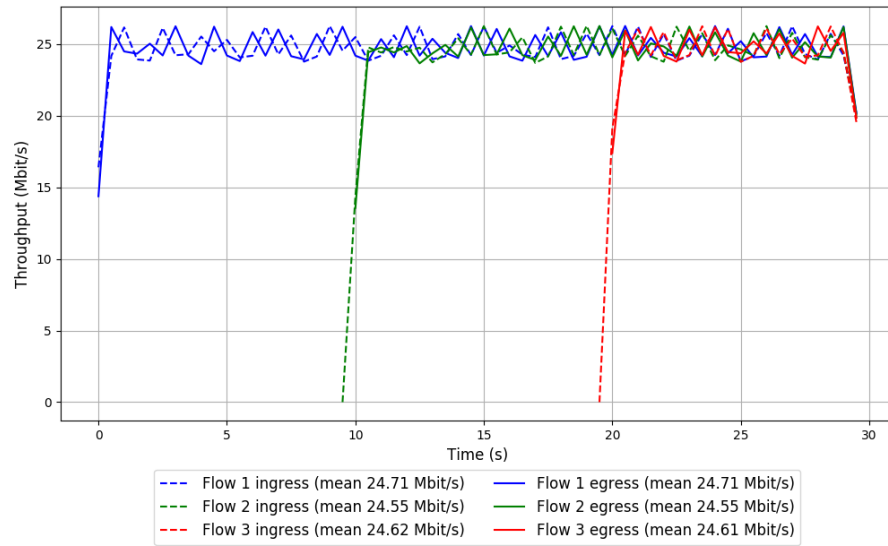
Run 9: Statistics of Sprout

Start at: 2017-08-11 12:19:10  
End at: 2017-08-11 12:19:40  
Local clock offset: 0.783 ms  
Remote clock offset: -1.267 ms

# Below is generated by plot.py at 2017-08-11 16:19:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.18 Mbit/s  
95th percentile per-packet one-way delay: 21.492 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.71 Mbit/s  
95th percentile per-packet one-way delay: 21.585 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.55 Mbit/s  
95th percentile per-packet one-way delay: 20.939 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.61 Mbit/s  
95th percentile per-packet one-way delay: 21.854 ms  
Loss rate: 0.00%



## Run 9: Report of Sprout — Data Link

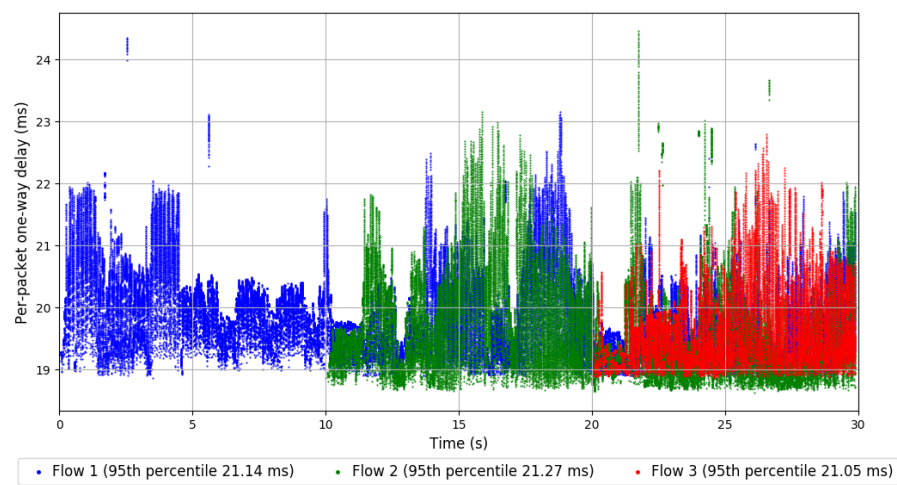
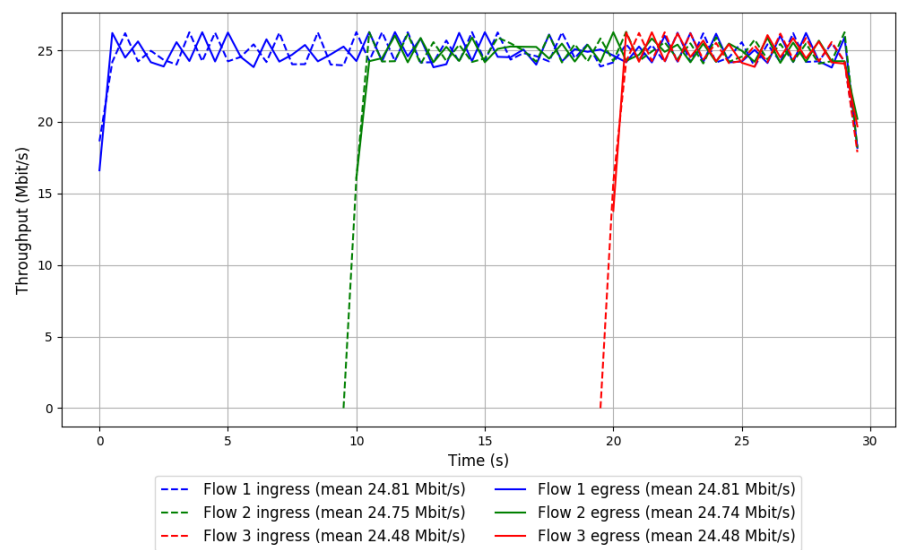


Run 10: Statistics of Sprout

Start at: 2017-08-11 12:40:42  
End at: 2017-08-11 12:41:12  
Local clock offset: 0.723 ms  
Remote clock offset: -1.662 ms

# Below is generated by plot.py at 2017-08-11 16:20:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.33 Mbit/s  
95th percentile per-packet one-way delay: 21.162 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.81 Mbit/s  
95th percentile per-packet one-way delay: 21.140 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.74 Mbit/s  
95th percentile per-packet one-way delay: 21.268 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.48 Mbit/s  
95th percentile per-packet one-way delay: 21.046 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

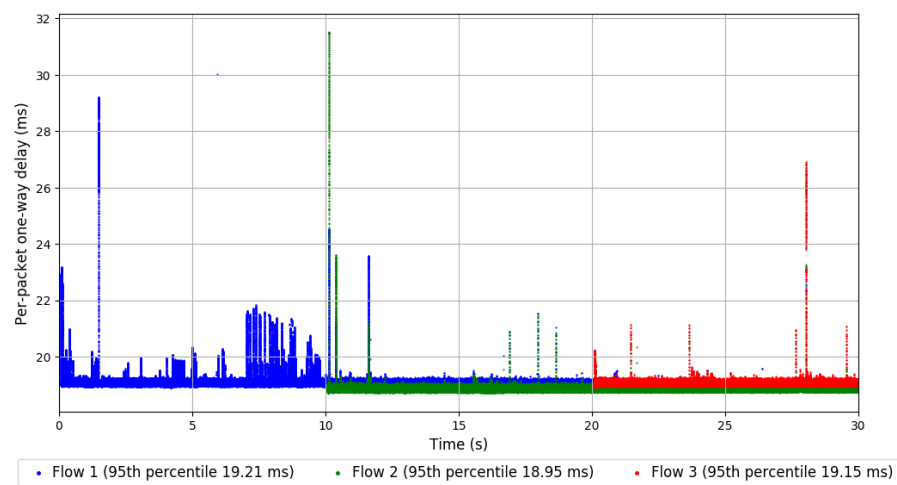
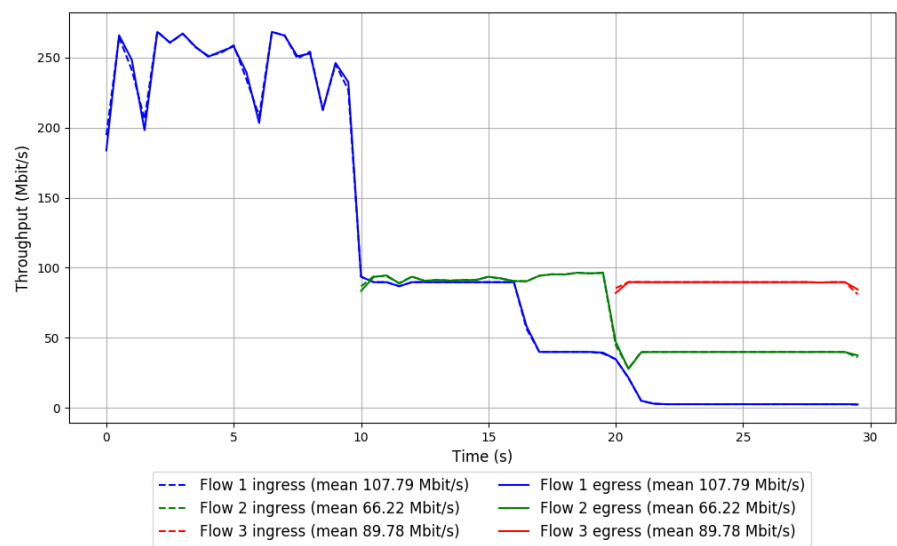


Run 1: Statistics of TaoVA-100x

Start at: 2017-08-11 09:25:12  
End at: 2017-08-11 09:25:42  
Local clock offset: 0.347 ms  
Remote clock offset: -0.458 ms

# Below is generated by plot.py at 2017-08-11 16:20:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 181.64 Mbit/s  
95th percentile per-packet one-way delay: 19.171 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 107.79 Mbit/s  
95th percentile per-packet one-way delay: 19.206 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 66.22 Mbit/s  
95th percentile per-packet one-way delay: 18.952 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 89.78 Mbit/s  
95th percentile per-packet one-way delay: 19.148 ms  
Loss rate: 0.00%

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

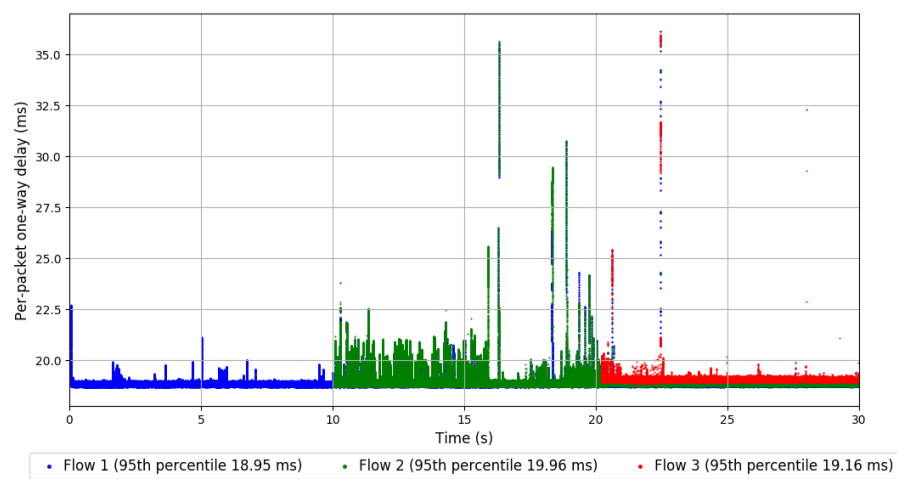
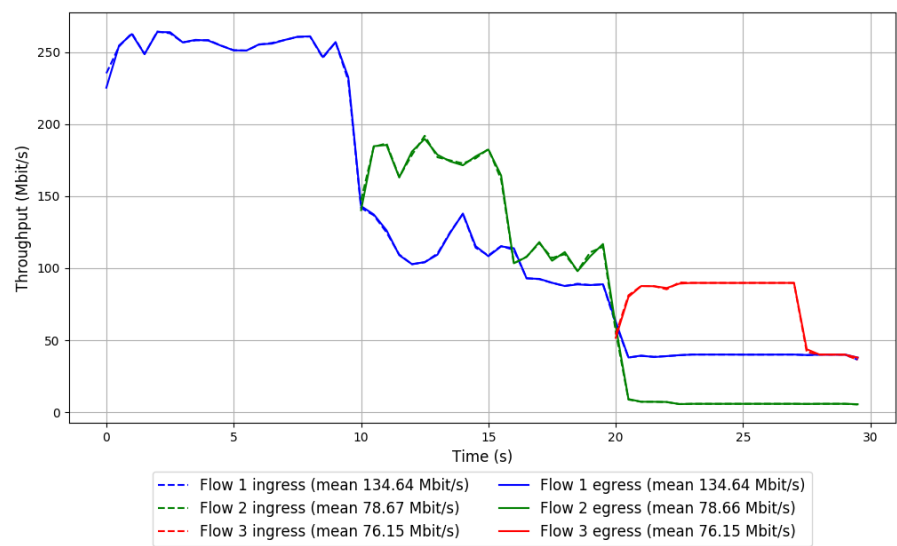


Run 2: Statistics of TaoVA-100x

Start at: 2017-08-11 09:46:42  
End at: 2017-08-11 09:47:12  
Local clock offset: 0.305 ms  
Remote clock offset: -0.868 ms

# Below is generated by plot.py at 2017-08-11 16:20:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 211.91 Mbit/s  
95th percentile per-packet one-way delay: 19.161 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 134.64 Mbit/s  
95th percentile per-packet one-way delay: 18.948 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 78.66 Mbit/s  
95th percentile per-packet one-way delay: 19.962 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 76.15 Mbit/s  
95th percentile per-packet one-way delay: 19.157 ms  
Loss rate: 0.00%

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



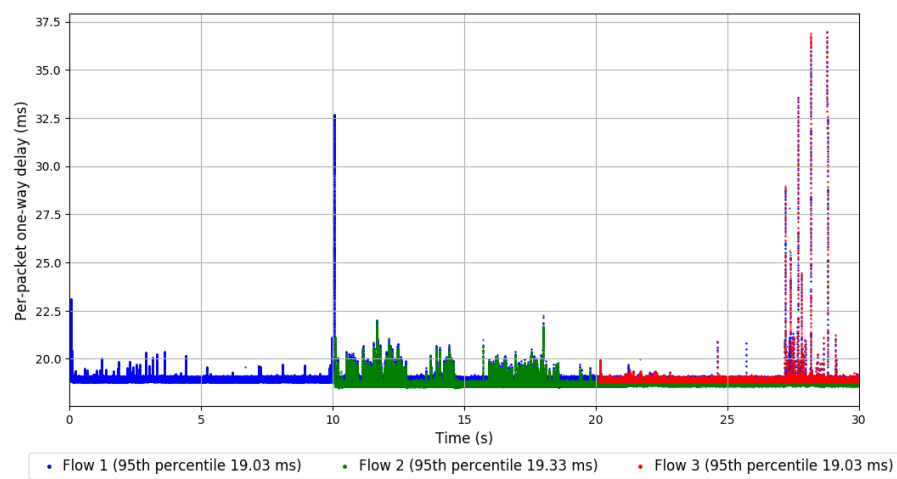
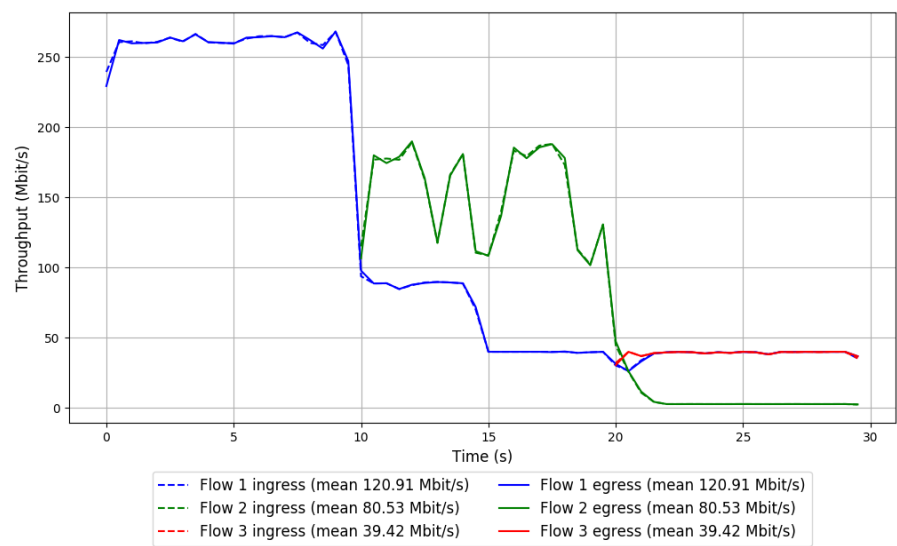
Run 3: Statistics of TaoVA-100x

Start at: 2017-08-11 10:08:06  
End at: 2017-08-11 10:08:36  
Local clock offset: 0.462 ms  
Remote clock offset: -1.141 ms

# Below is generated by plot.py at 2017-08-11 16:21:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 187.46 Mbit/s  
95th percentile per-packet one-way delay: 19.046 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 120.91 Mbit/s  
95th percentile per-packet one-way delay: 19.032 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 80.53 Mbit/s  
95th percentile per-packet one-way delay: 19.330 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 39.42 Mbit/s  
95th percentile per-packet one-way delay: 19.026 ms  
Loss rate: 0.00%



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

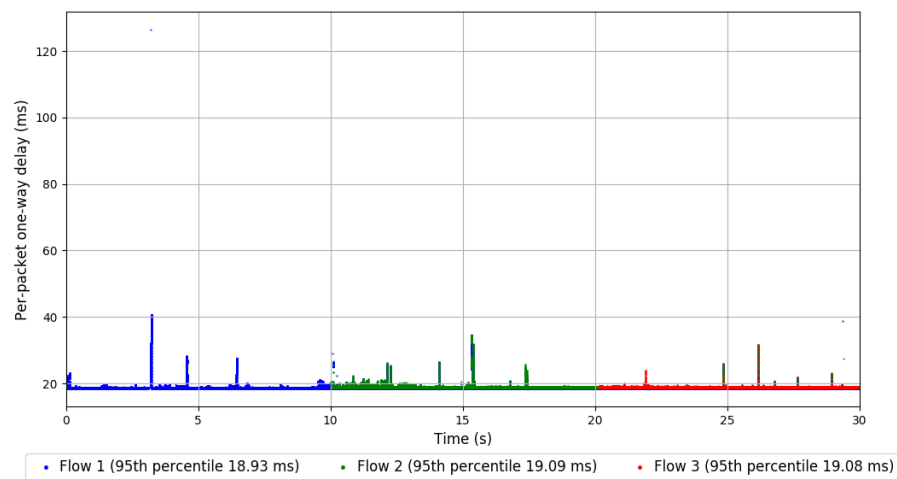
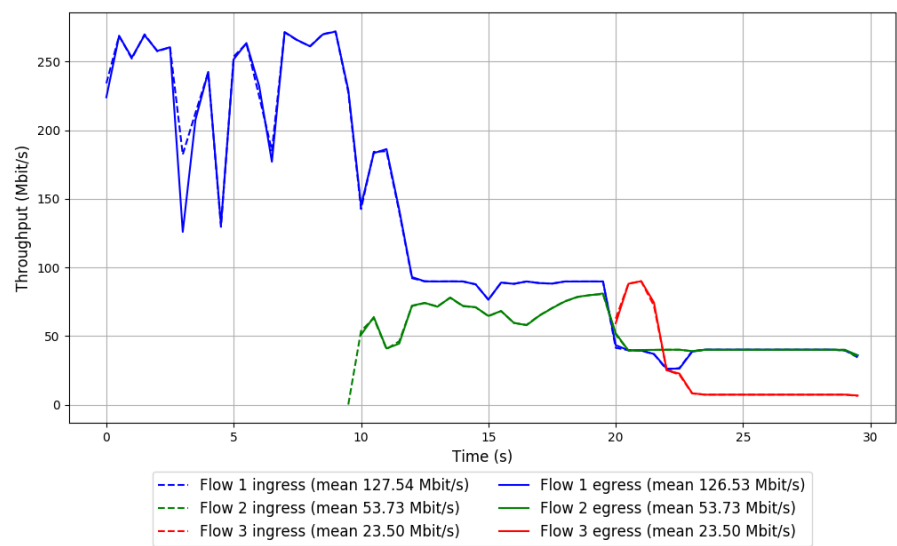


Run 4: Statistics of TaoVA-100x

Start at: 2017-08-11 10:29:50  
End at: 2017-08-11 10:30:20  
Local clock offset: 0.524 ms  
Remote clock offset: -1.196 ms

# Below is generated by plot.py at 2017-08-11 16:21:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 170.03 Mbit/s  
95th percentile per-packet one-way delay: 19.056 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 126.53 Mbit/s  
95th percentile per-packet one-way delay: 18.930 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 53.73 Mbit/s  
95th percentile per-packet one-way delay: 19.091 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.50 Mbit/s  
95th percentile per-packet one-way delay: 19.084 ms  
Loss rate: 0.00%

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

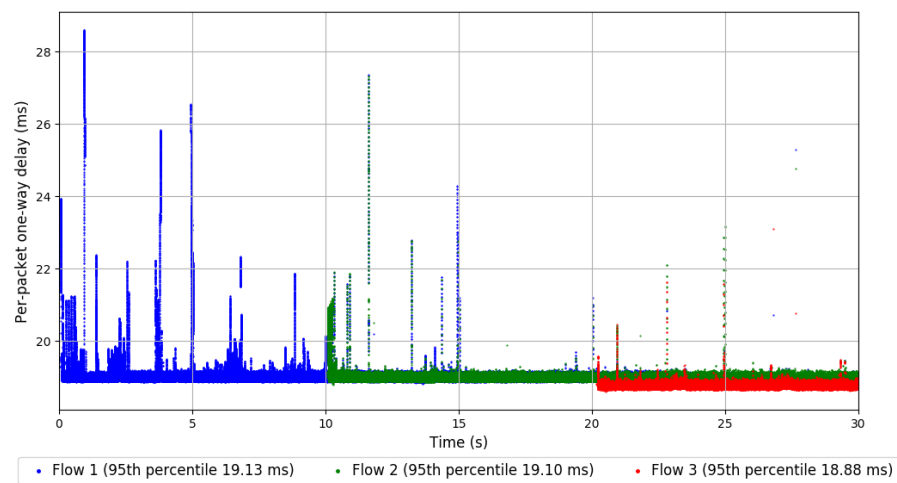
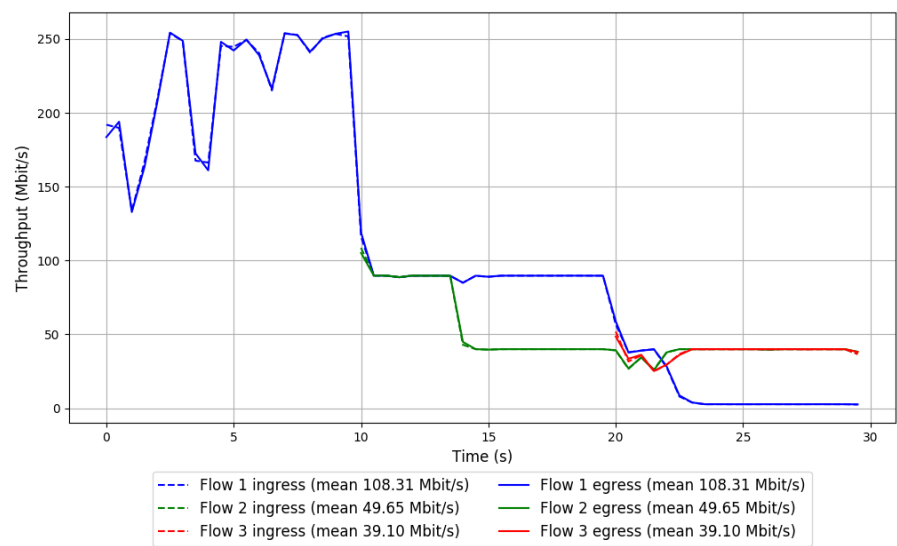


Run 5: Statistics of TaoVA-100x

Start at: 2017-08-11 10:51:27  
End at: 2017-08-11 10:51:57  
Local clock offset: 0.499 ms  
Remote clock offset: -1.295 ms

# Below is generated by plot.py at 2017-08-11 16:21:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 154.13 Mbit/s  
95th percentile per-packet one-way delay: 19.115 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 108.31 Mbit/s  
95th percentile per-packet one-way delay: 19.130 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 49.65 Mbit/s  
95th percentile per-packet one-way delay: 19.099 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 39.10 Mbit/s  
95th percentile per-packet one-way delay: 18.875 ms  
Loss rate: 0.00%

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

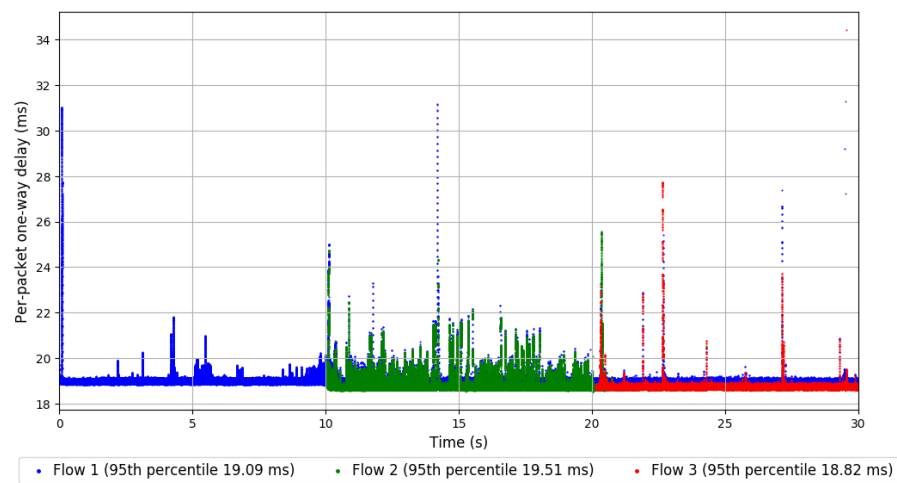
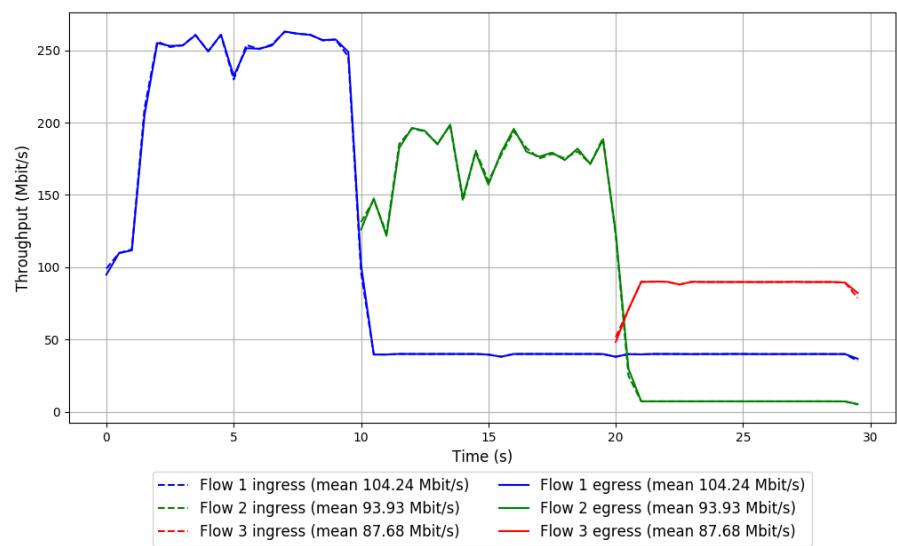


Run 6: Statistics of TaoVA-100x

Start at: 2017-08-11 11:12:51  
End at: 2017-08-11 11:13:21  
Local clock offset: 0.606 ms  
Remote clock offset: -1.214 ms

# Below is generated by plot.py at 2017-08-11 16:22:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 195.59 Mbit/s  
95th percentile per-packet one-way delay: 19.132 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 104.24 Mbit/s  
95th percentile per-packet one-way delay: 19.093 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 93.93 Mbit/s  
95th percentile per-packet one-way delay: 19.514 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 87.68 Mbit/s  
95th percentile per-packet one-way delay: 18.821 ms  
Loss rate: 0.00%

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



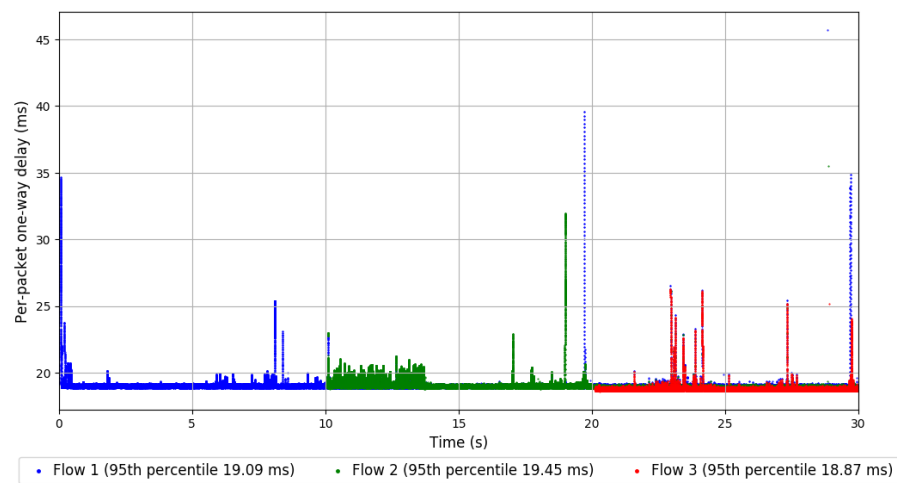
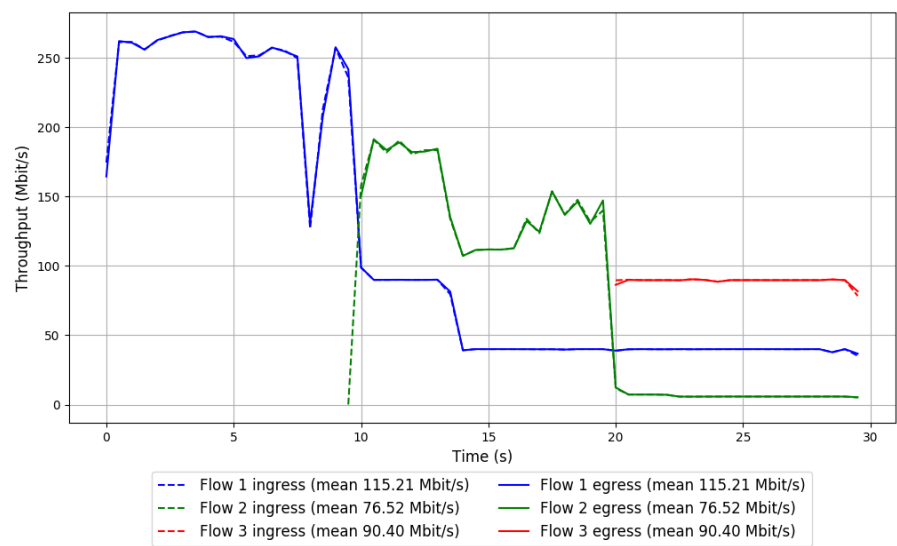
Run 7: Statistics of TaoVA-100x

Start at: 2017-08-11 11:34:38  
End at: 2017-08-11 11:35:08  
Local clock offset: 0.684 ms  
Remote clock offset: -1.195 ms

# Below is generated by plot.py at 2017-08-11 16:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 195.99 Mbit/s  
95th percentile per-packet one-way delay: 19.113 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 115.21 Mbit/s  
95th percentile per-packet one-way delay: 19.094 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 76.52 Mbit/s  
95th percentile per-packet one-way delay: 19.454 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 90.40 Mbit/s  
95th percentile per-packet one-way delay: 18.870 ms  
Loss rate: 0.00%



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

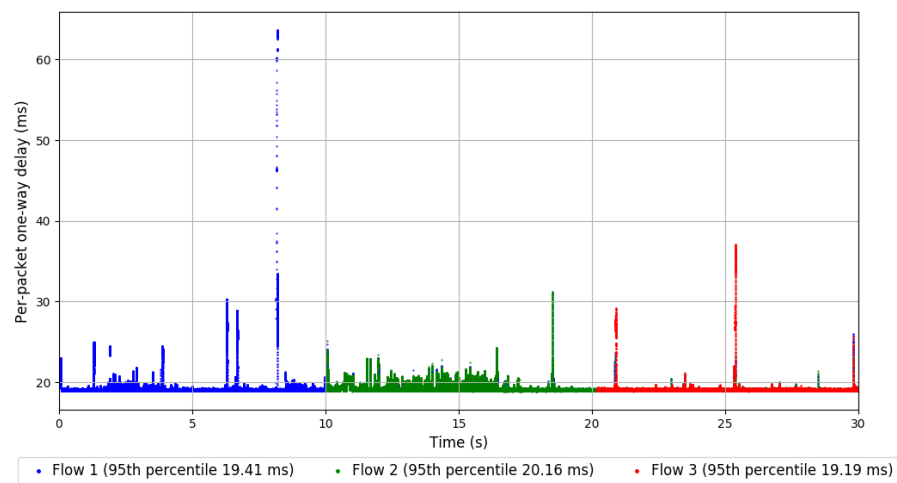
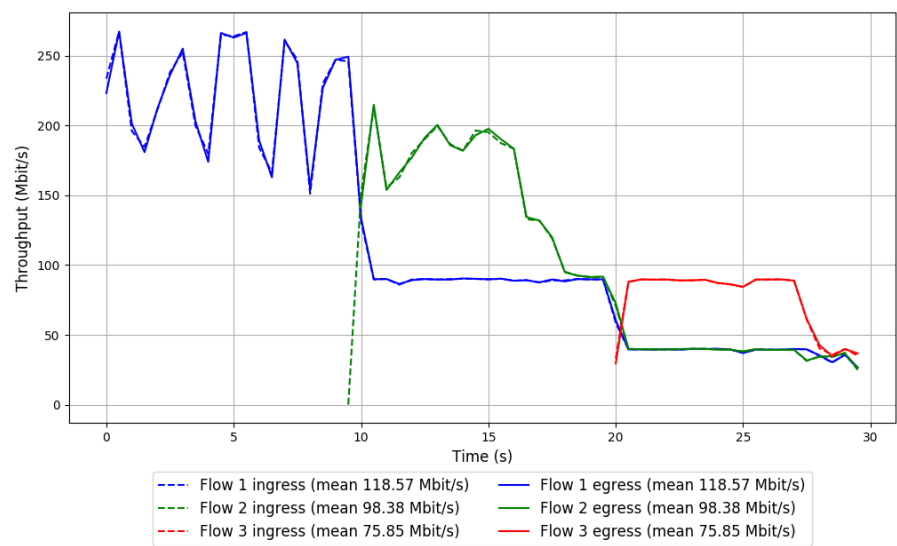


Run 8: Statistics of TaoVA-100x

Start at: 2017-08-11 11:55:58  
End at: 2017-08-11 11:56:28  
Local clock offset: 0.785 ms  
Remote clock offset: -1.164 ms

# Below is generated by plot.py at 2017-08-11 16:22:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 208.93 Mbit/s  
95th percentile per-packet one-way delay: 19.596 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 118.57 Mbit/s  
95th percentile per-packet one-way delay: 19.408 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 98.38 Mbit/s  
95th percentile per-packet one-way delay: 20.157 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 75.85 Mbit/s  
95th percentile per-packet one-way delay: 19.191 ms  
Loss rate: 0.00%

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

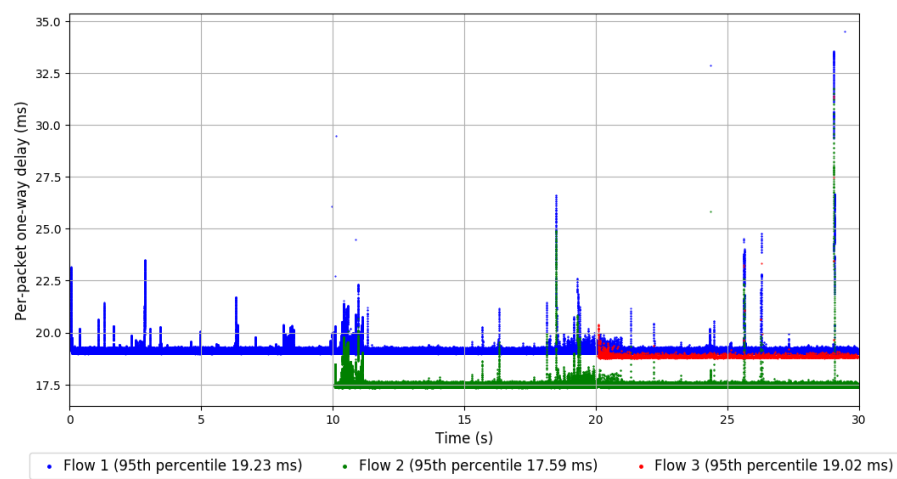
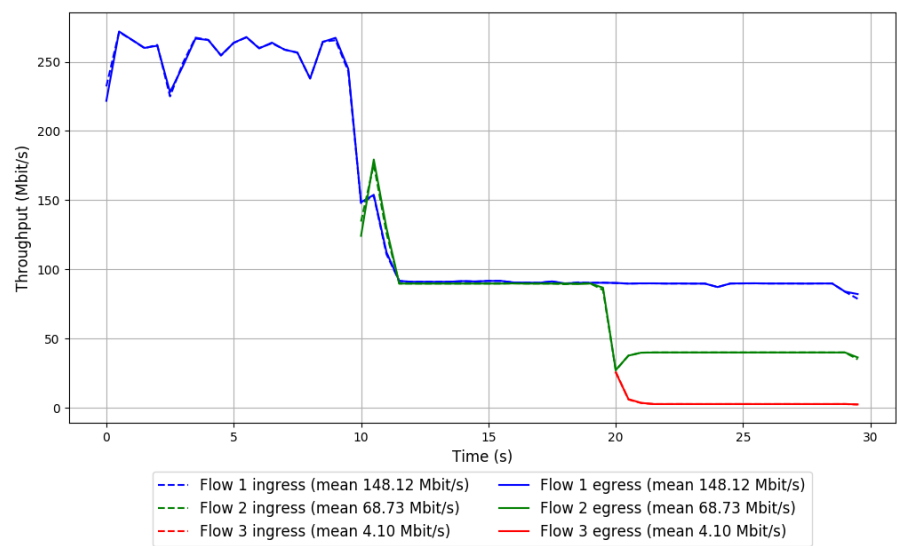


Run 9: Statistics of TaoVA-100x

Start at: 2017-08-11 12:17:41  
End at: 2017-08-11 12:18:12  
Local clock offset: 0.675 ms  
Remote clock offset: -1.236 ms

# Below is generated by plot.py at 2017-08-11 16:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 195.18 Mbit/s  
95th percentile per-packet one-way delay: 19.211 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 148.12 Mbit/s  
95th percentile per-packet one-way delay: 19.228 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 68.73 Mbit/s  
95th percentile per-packet one-way delay: 17.595 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.10 Mbit/s  
95th percentile per-packet one-way delay: 19.020 ms  
Loss rate: 0.00%

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

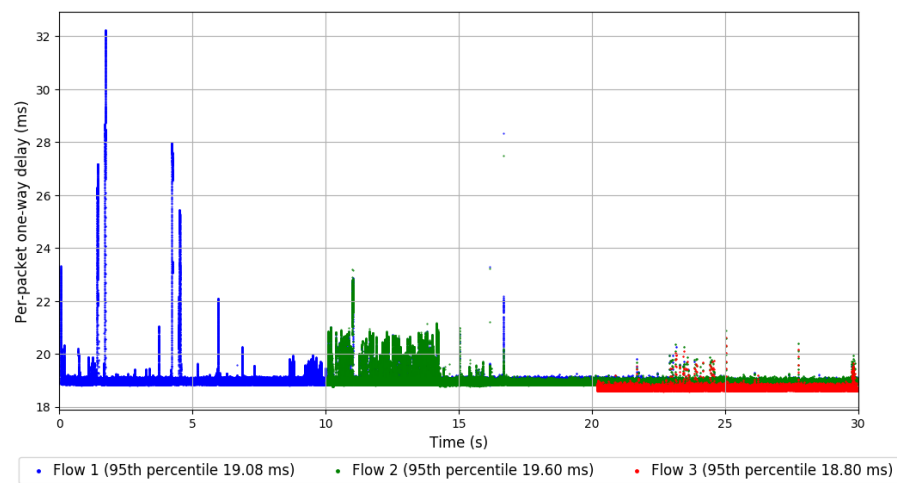
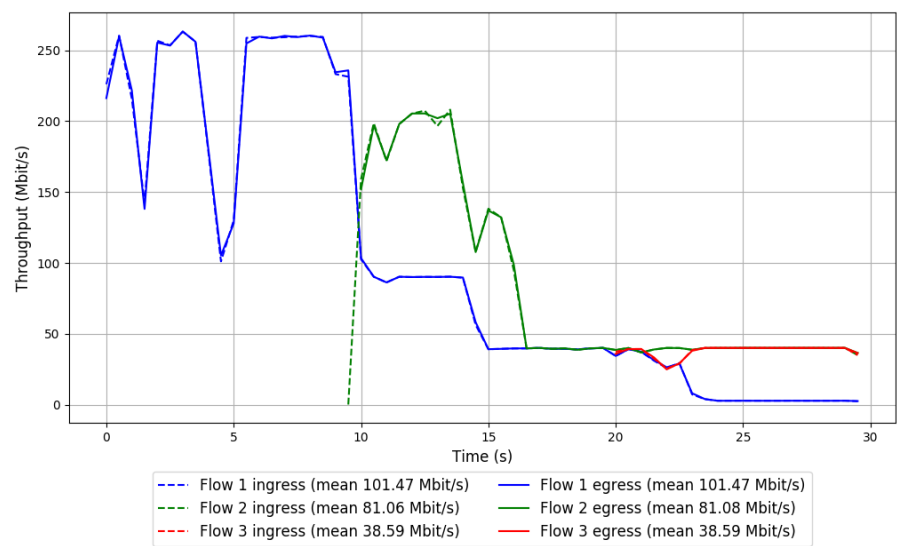


Run 10: Statistics of TaoVA-100x

Start at: 2017-08-11 12:39:16  
End at: 2017-08-11 12:39:46  
Local clock offset: 0.738 ms  
Remote clock offset: -1.629 ms

# Below is generated by plot.py at 2017-08-11 16:23:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 168.12 Mbit/s  
95th percentile per-packet one-way delay: 19.134 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 101.47 Mbit/s  
95th percentile per-packet one-way delay: 19.084 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 81.08 Mbit/s  
95th percentile per-packet one-way delay: 19.599 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 38.59 Mbit/s  
95th percentile per-packet one-way delay: 18.798 ms  
Loss rate: 0.00%

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



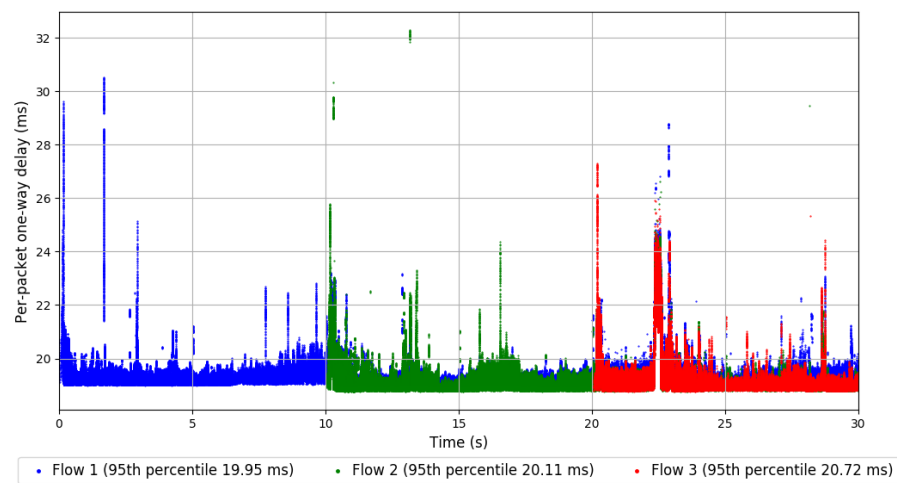
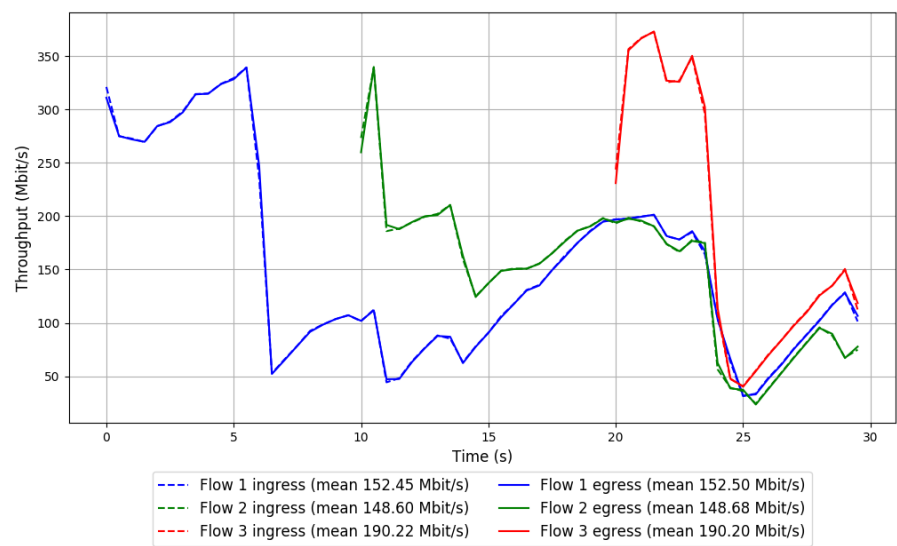
Run 1: Statistics of TCP Vegas

Start at: 2017-08-11 09:33:51  
End at: 2017-08-11 09:34:21  
Local clock offset: 0.272 ms  
Remote clock offset: -0.644 ms

# Below is generated by plot.py at 2017-08-11 16:24:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 314.54 Mbit/s  
95th percentile per-packet one-way delay: 20.079 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 152.50 Mbit/s  
95th percentile per-packet one-way delay: 19.952 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 148.68 Mbit/s  
95th percentile per-packet one-way delay: 20.111 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 190.20 Mbit/s  
95th percentile per-packet one-way delay: 20.719 ms  
Loss rate: 0.01%



Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-08-11 09:55:16

End at: 2017-08-11 09:55:46

Local clock offset: 0.354 ms

Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2017-08-11 16:24:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 490.06 Mbit/s

95th percentile per-packet one-way delay: 19.575 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 291.21 Mbit/s

95th percentile per-packet one-way delay: 19.609 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 185.36 Mbit/s

95th percentile per-packet one-way delay: 19.607 ms

Loss rate: 0.00%

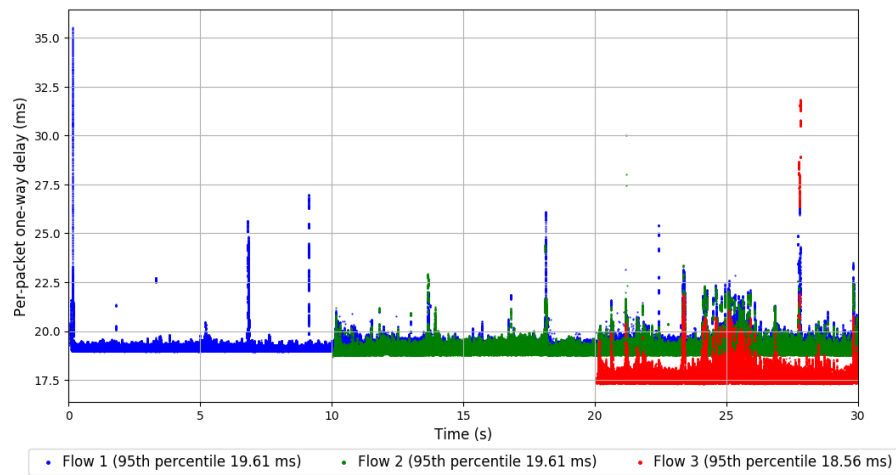
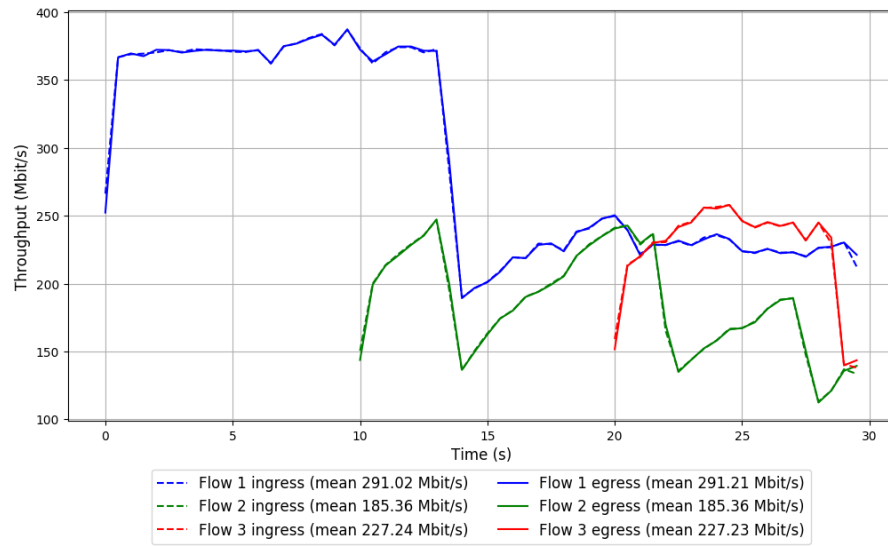
-- Flow 3:

Average throughput: 227.23 Mbit/s

95th percentile per-packet one-way delay: 18.558 ms

Loss rate: 0.00%

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

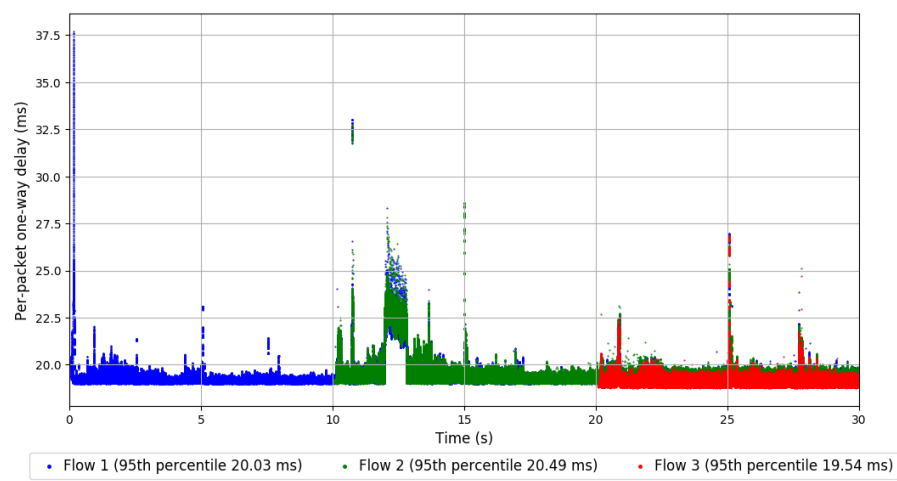
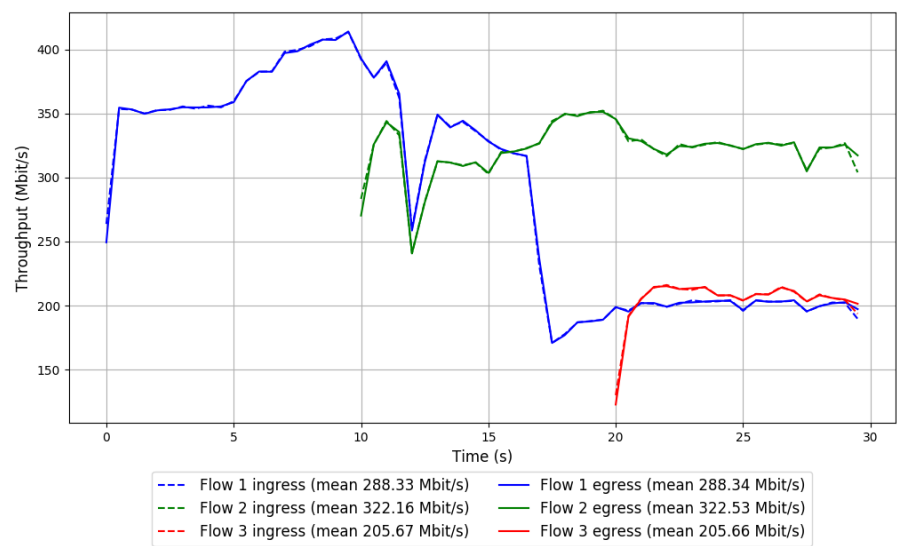


Run 3: Statistics of TCP Vegas

Start at: 2017-08-11 10:16:49  
End at: 2017-08-11 10:17:19  
Local clock offset: 0.369 ms  
Remote clock offset: -1.095 ms

# Below is generated by plot.py at 2017-08-11 16:25:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 571.12 Mbit/s  
95th percentile per-packet one-way delay: 20.075 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 288.34 Mbit/s  
95th percentile per-packet one-way delay: 20.034 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 322.53 Mbit/s  
95th percentile per-packet one-way delay: 20.489 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 205.66 Mbit/s  
95th percentile per-packet one-way delay: 19.543 ms  
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

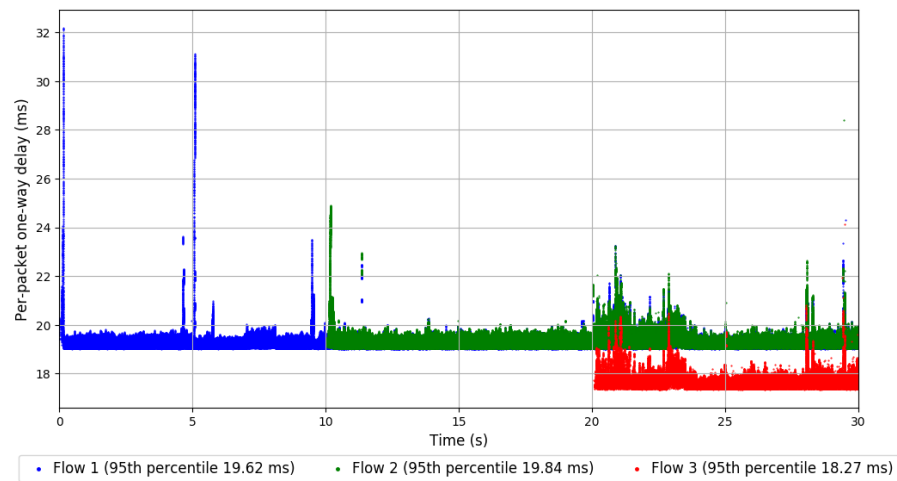
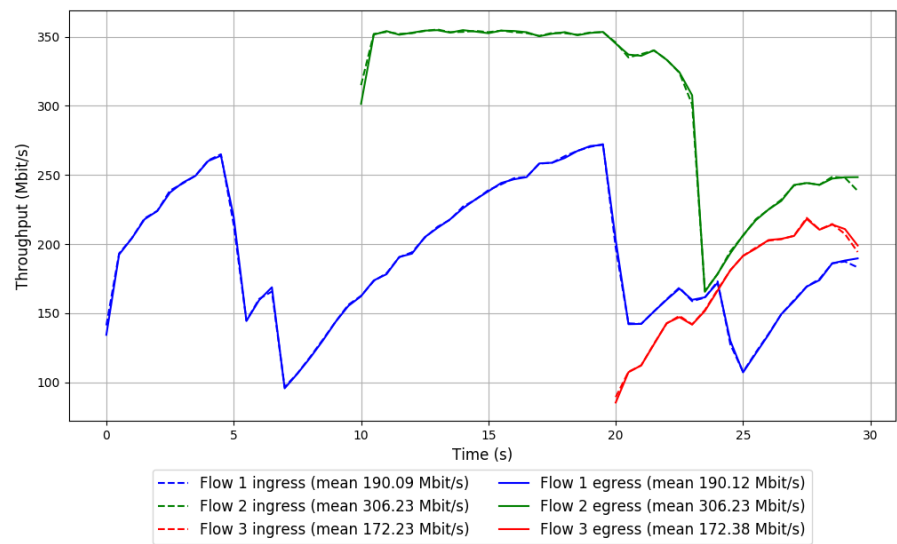


Run 4: Statistics of TCP Vegas

Start at: 2017-08-11 10:38:40  
End at: 2017-08-11 10:39:10  
Local clock offset: 0.458 ms  
Remote clock offset: -1.151 ms

# Below is generated by plot.py at 2017-08-11 16:25:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 451.09 Mbit/s  
95th percentile per-packet one-way delay: 19.686 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 190.12 Mbit/s  
95th percentile per-packet one-way delay: 19.622 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 306.23 Mbit/s  
95th percentile per-packet one-way delay: 19.838 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 172.38 Mbit/s  
95th percentile per-packet one-way delay: 18.271 ms  
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



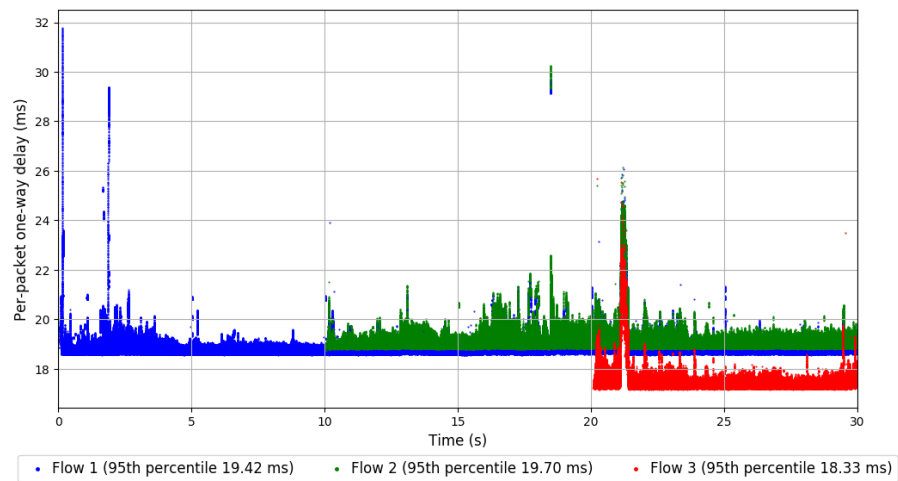
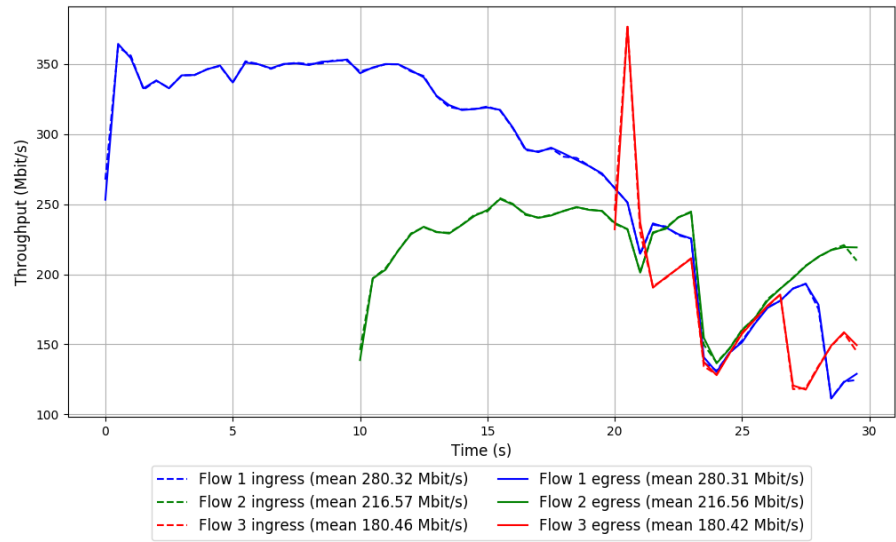
Run 5: Statistics of TCP Vegas

Start at: 2017-08-11 10:59:59  
End at: 2017-08-11 11:00:29  
Local clock offset: 0.605 ms  
Remote clock offset: -1.294 ms

# Below is generated by plot.py at 2017-08-11 16:26:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 484.16 Mbit/s  
95th percentile per-packet one-way delay: 19.526 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 280.31 Mbit/s  
95th percentile per-packet one-way delay: 19.421 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 216.56 Mbit/s  
95th percentile per-packet one-way delay: 19.703 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 180.42 Mbit/s  
95th percentile per-packet one-way delay: 18.328 ms  
Loss rate: 0.02%



# Run 5: Report of TCP Vegas — Data Link

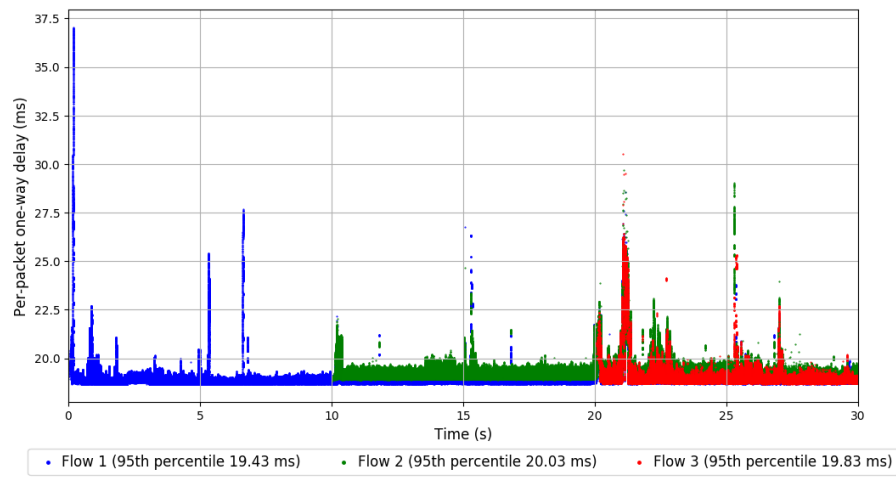
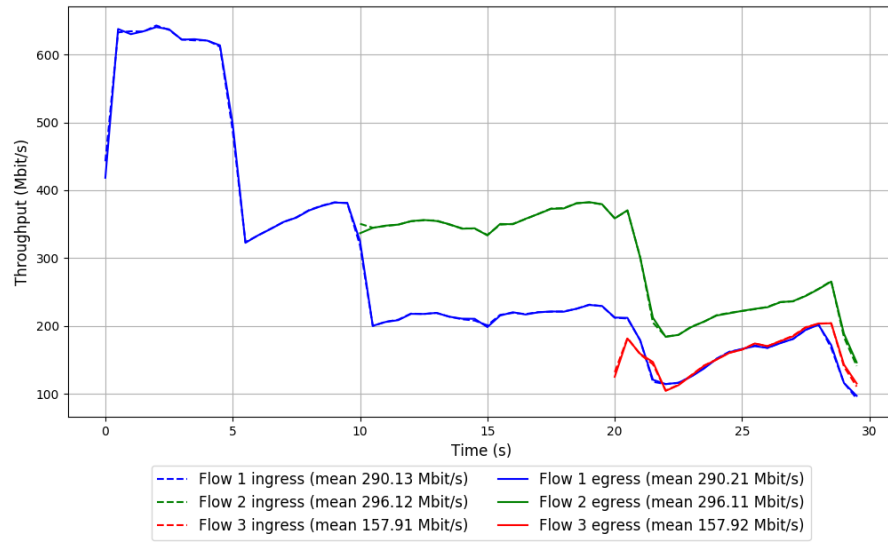


Run 6: Statistics of TCP Vegas

Start at: 2017-08-11 11:21:40  
End at: 2017-08-11 11:22:10  
Local clock offset: 0.554 ms  
Remote clock offset: -1.164 ms

# Below is generated by plot.py at 2017-08-11 16:26:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 539.80 Mbit/s  
95th percentile per-packet one-way delay: 19.719 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 290.21 Mbit/s  
95th percentile per-packet one-way delay: 19.429 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 296.11 Mbit/s  
95th percentile per-packet one-way delay: 20.029 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 157.92 Mbit/s  
95th percentile per-packet one-way delay: 19.833 ms  
Loss rate: 0.01%

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

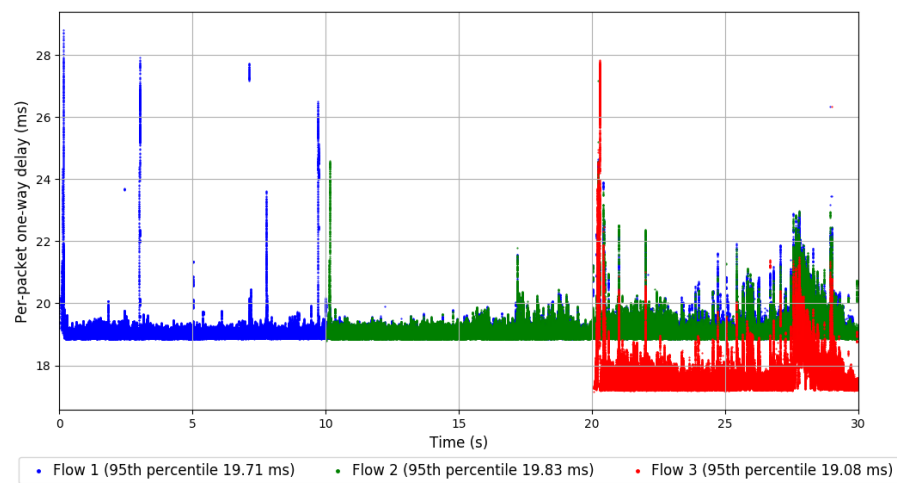
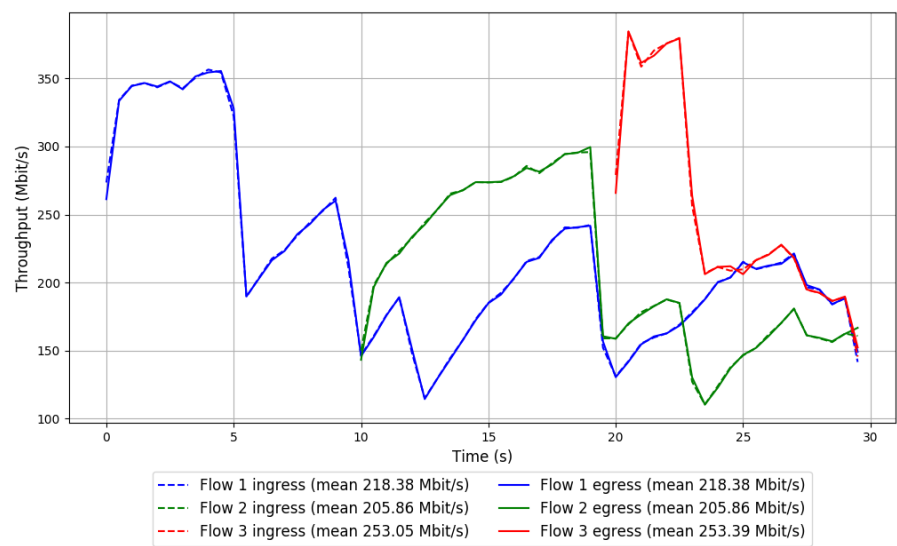


Run 7: Statistics of TCP Vegas

Start at: 2017-08-11 11:43:13  
End at: 2017-08-11 11:43:43  
Local clock offset: 0.808 ms  
Remote clock offset: -1.115 ms

# Below is generated by plot.py at 2017-08-11 16:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 439.48 Mbit/s  
95th percentile per-packet one-way delay: 19.701 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 218.38 Mbit/s  
95th percentile per-packet one-way delay: 19.713 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 205.86 Mbit/s  
95th percentile per-packet one-way delay: 19.832 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 253.39 Mbit/s  
95th percentile per-packet one-way delay: 19.081 ms  
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

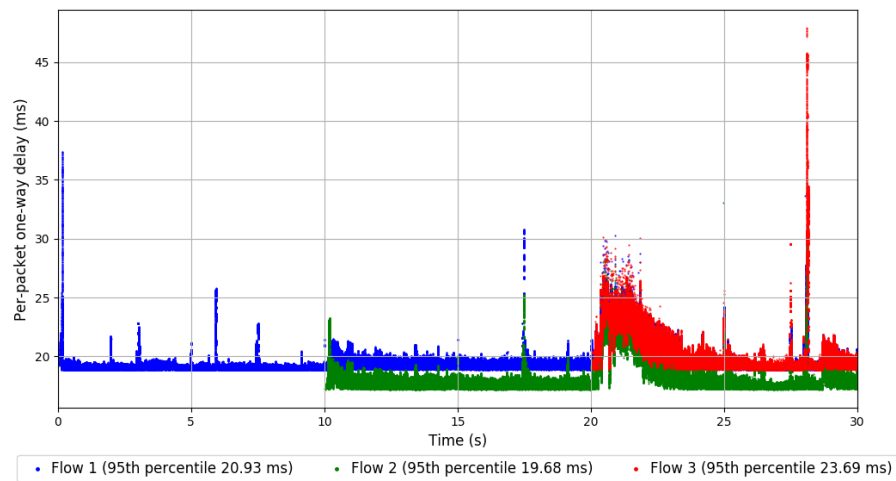
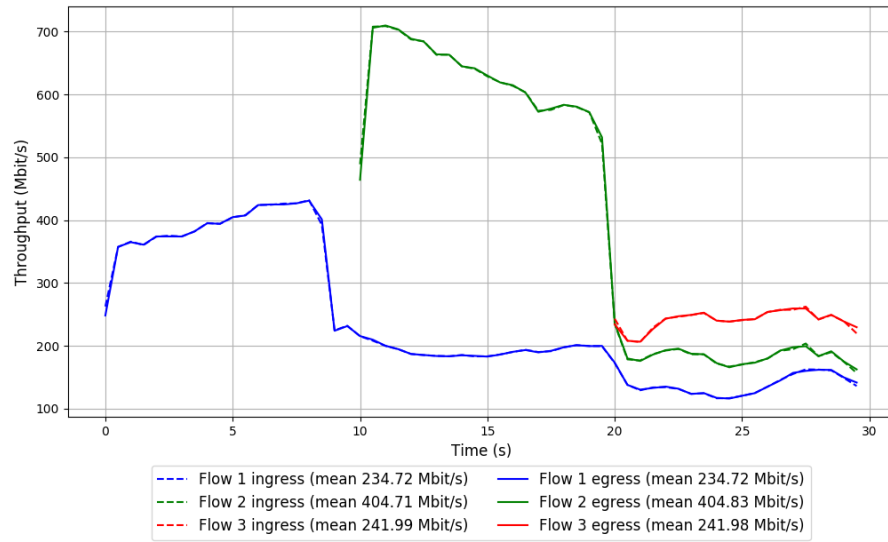


Run 8: Statistics of TCP Vegas

Start at: 2017-08-11 12:04:40  
End at: 2017-08-11 12:05:10  
Local clock offset: 0.788 ms  
Remote clock offset: -1.205 ms

```
# Below is generated by plot.py at 2017-08-11 16:27:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 584.79 Mbit/s
95th percentile per-packet one-way delay: 21.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.72 Mbit/s
95th percentile per-packet one-way delay: 20.932 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 404.83 Mbit/s
95th percentile per-packet one-way delay: 19.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 241.98 Mbit/s
95th percentile per-packet one-way delay: 23.693 ms
Loss rate: 0.00%
```

# Run 8: Report of TCP Vegas — Data Link



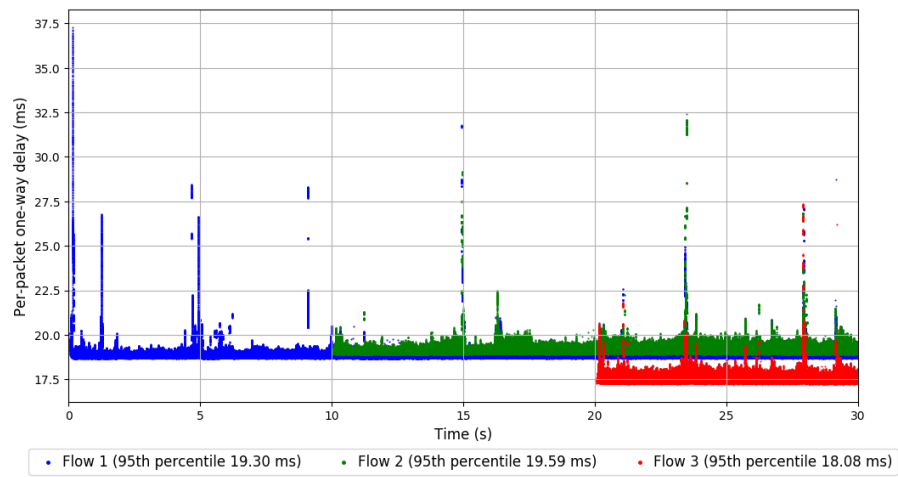
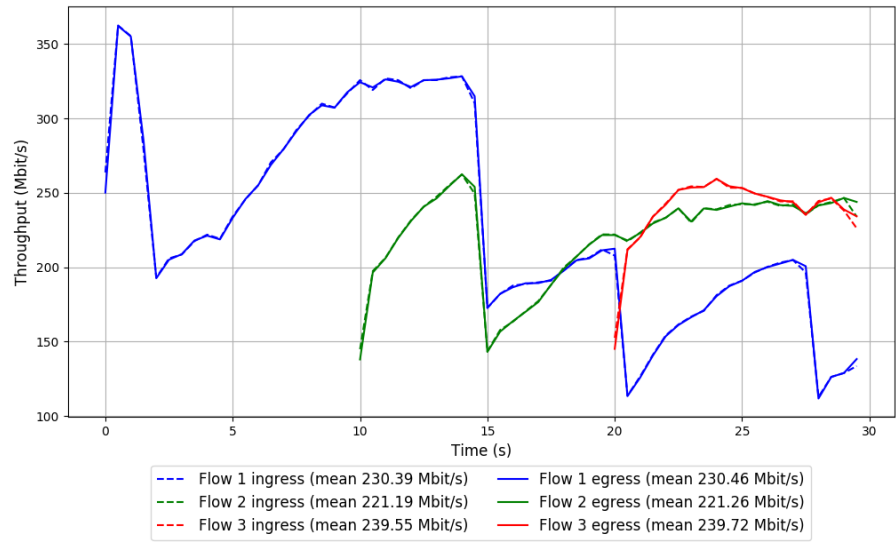
Run 9: Statistics of TCP Vegas

Start at: 2017-08-11 12:26:23  
End at: 2017-08-11 12:26:53  
Local clock offset: 0.672 ms  
Remote clock offset: -1.558 ms

# Below is generated by plot.py at 2017-08-11 16:28:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 457.29 Mbit/s  
95th percentile per-packet one-way delay: 19.447 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 230.46 Mbit/s  
95th percentile per-packet one-way delay: 19.303 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 221.26 Mbit/s  
95th percentile per-packet one-way delay: 19.594 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 239.72 Mbit/s  
95th percentile per-packet one-way delay: 18.078 ms  
Loss rate: 0.00%



# Run 9: Report of TCP Vegas — Data Link

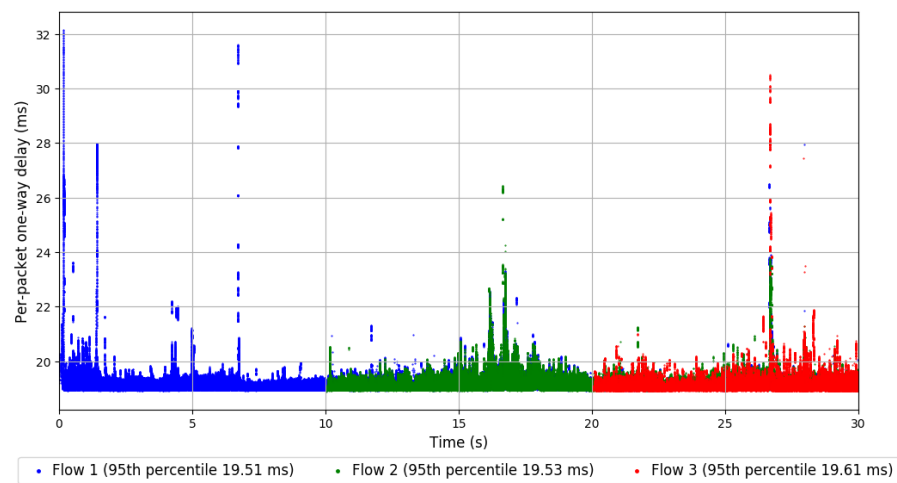
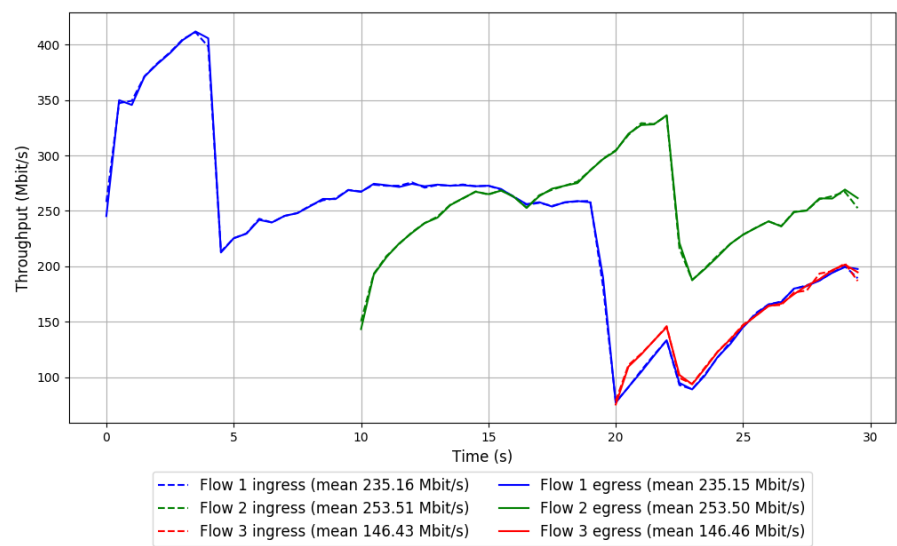


Run 10: Statistics of TCP Vegas

Start at: 2017-08-11 12:48:01  
End at: 2017-08-11 12:48:31  
Local clock offset: 0.731 ms  
Remote clock offset: -1.592 ms

# Below is generated by plot.py at 2017-08-11 16:28:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 452.63 Mbit/s  
95th percentile per-packet one-way delay: 19.527 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 235.15 Mbit/s  
95th percentile per-packet one-way delay: 19.506 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 253.50 Mbit/s  
95th percentile per-packet one-way delay: 19.534 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 146.46 Mbit/s  
95th percentile per-packet one-way delay: 19.611 ms  
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

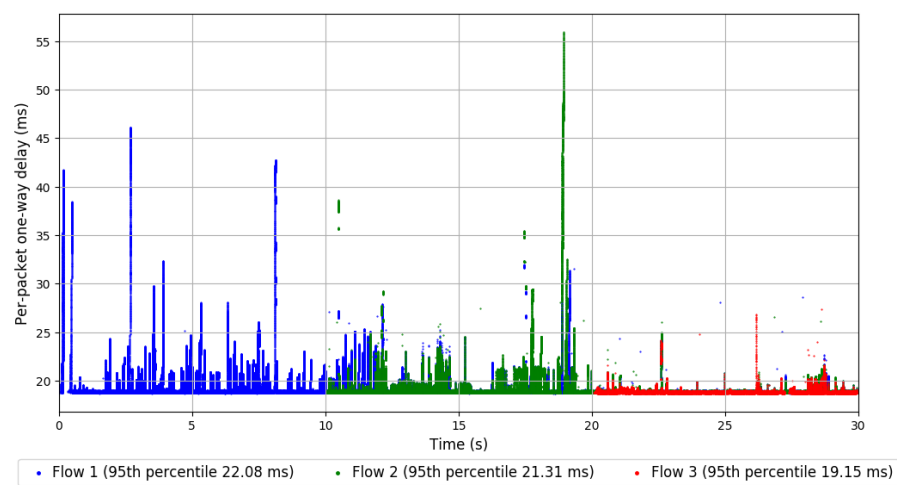
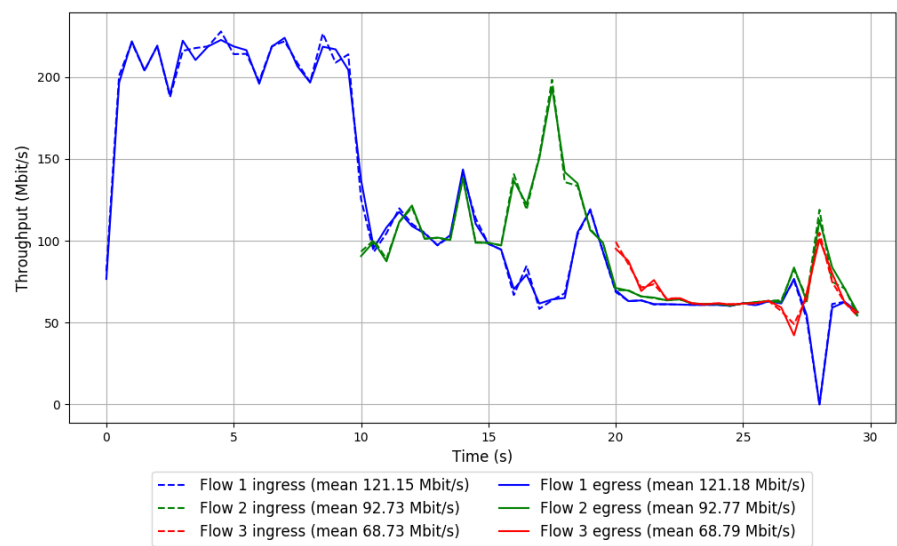


Run 1: Statistics of Verus

Start at: 2017-08-11 09:23:48  
End at: 2017-08-11 09:24:18  
Local clock offset: 0.354 ms  
Remote clock offset: -0.462 ms

# Below is generated by plot.py at 2017-08-11 16:28:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 205.65 Mbit/s  
95th percentile per-packet one-way delay: 21.596 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 121.18 Mbit/s  
95th percentile per-packet one-way delay: 22.084 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 92.77 Mbit/s  
95th percentile per-packet one-way delay: 21.312 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 68.79 Mbit/s  
95th percentile per-packet one-way delay: 19.154 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

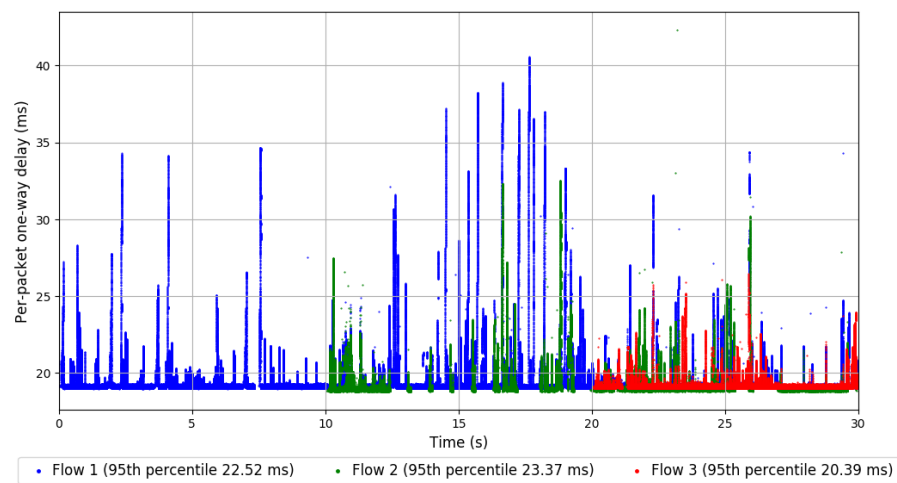
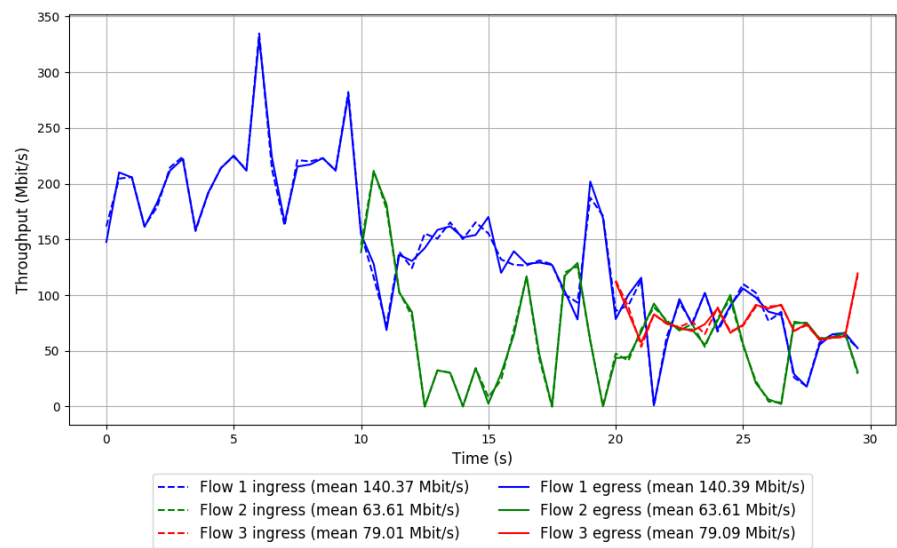


Run 2: Statistics of Verus

Start at: 2017-08-11 09:45:18  
End at: 2017-08-11 09:45:48  
Local clock offset: 0.314 ms  
Remote clock offset: -0.786 ms

# Below is generated by plot.py at 2017-08-11 16:28:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 208.86 Mbit/s  
95th percentile per-packet one-way delay: 22.390 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 140.39 Mbit/s  
95th percentile per-packet one-way delay: 22.517 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 63.61 Mbit/s  
95th percentile per-packet one-way delay: 23.367 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 79.09 Mbit/s  
95th percentile per-packet one-way delay: 20.392 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link



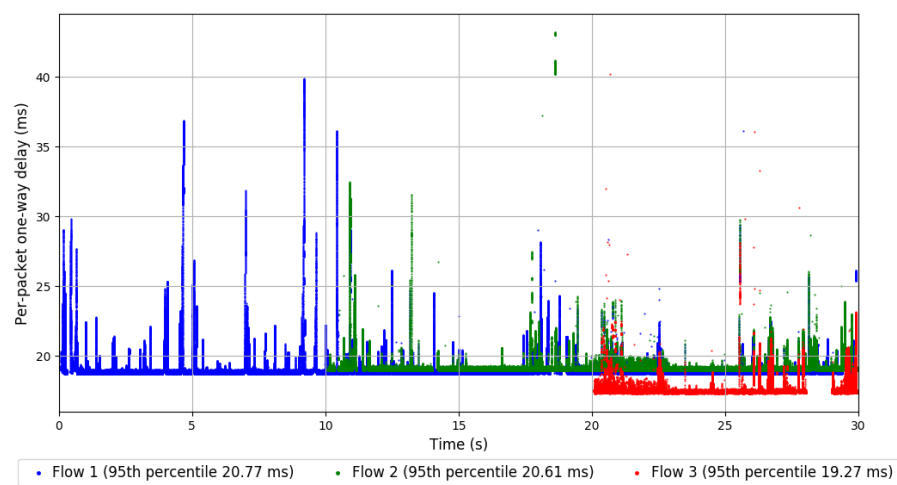
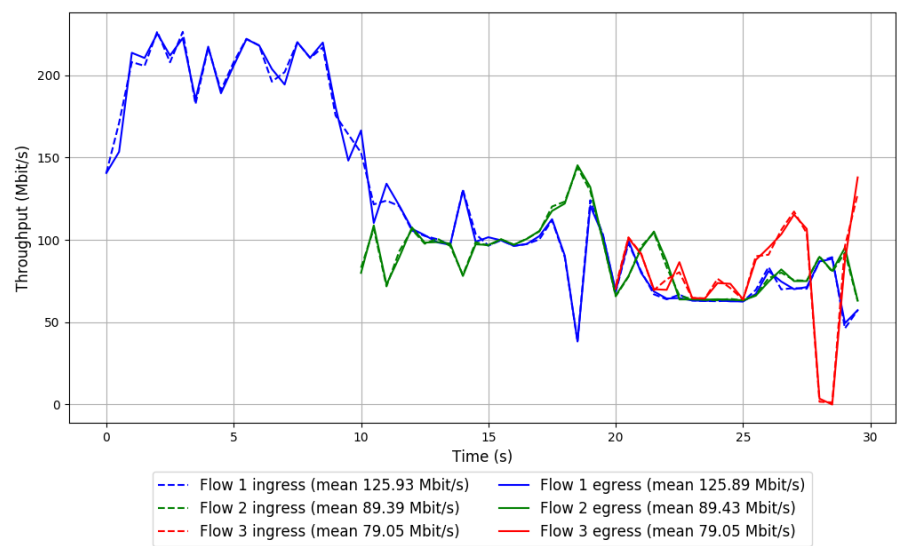
Run 3: Statistics of Verus

Start at: 2017-08-11 10:06:41  
End at: 2017-08-11 10:07:11  
Local clock offset: 0.372 ms  
Remote clock offset: -1.082 ms

# Below is generated by plot.py at 2017-08-11 16:29:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 211.45 Mbit/s  
95th percentile per-packet one-way delay: 20.546 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 125.89 Mbit/s  
95th percentile per-packet one-way delay: 20.767 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 89.43 Mbit/s  
95th percentile per-packet one-way delay: 20.607 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 79.05 Mbit/s  
95th percentile per-packet one-way delay: 19.273 ms  
Loss rate: 0.00%



Run 3: Report of Verus — Data Link

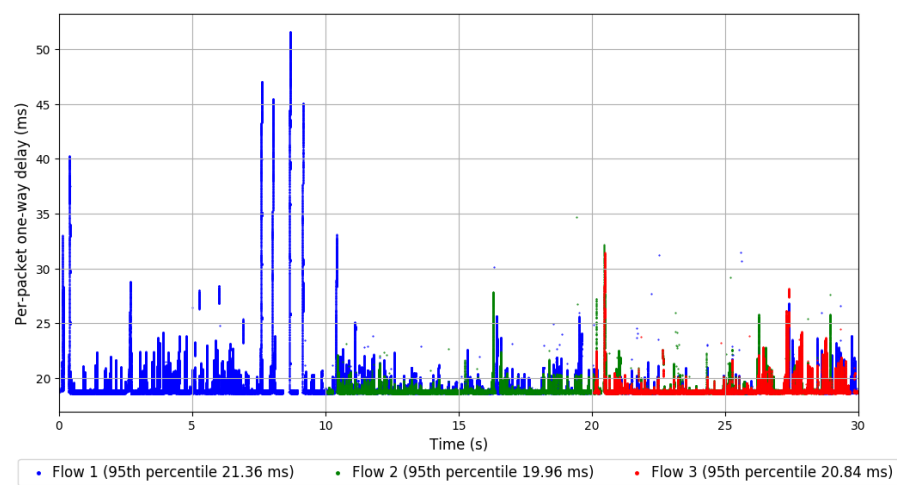
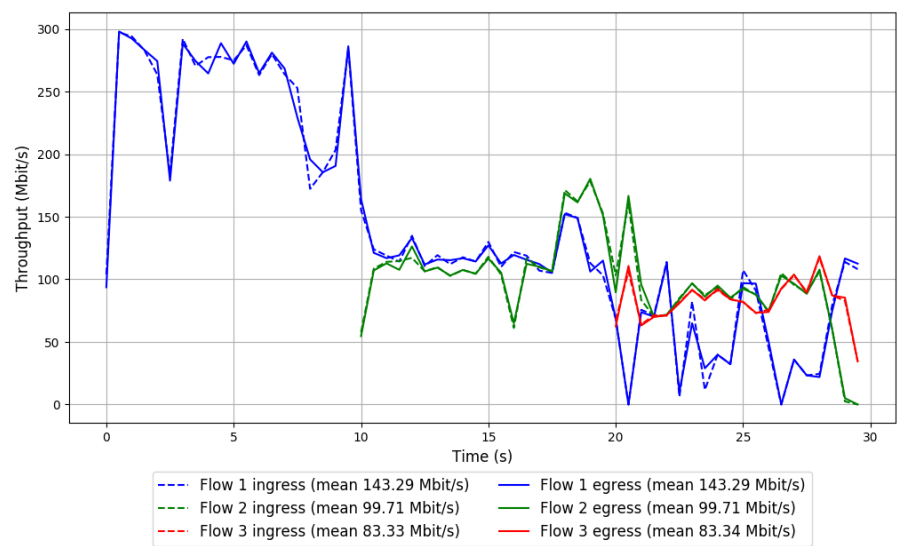


Run 4: Statistics of Verus

Start at: 2017-08-11 10:28:24  
End at: 2017-08-11 10:28:54  
Local clock offset: 0.507 ms  
Remote clock offset: -1.193 ms

# Below is generated by plot.py at 2017-08-11 16:29:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 237.17 Mbit/s  
95th percentile per-packet one-way delay: 20.950 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 143.29 Mbit/s  
95th percentile per-packet one-way delay: 21.358 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 99.71 Mbit/s  
95th percentile per-packet one-way delay: 19.962 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 83.34 Mbit/s  
95th percentile per-packet one-way delay: 20.844 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-11 10:50:03

End at: 2017-08-11 10:50:33

Local clock offset: 0.486 ms

Remote clock offset: -1.25 ms

# Below is generated by plot.py at 2017-08-11 16:29:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 202.97 Mbit/s

95th percentile per-packet one-way delay: 20.842 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.93 Mbit/s

95th percentile per-packet one-way delay: 21.167 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 20.332 ms

Loss rate: 0.00%

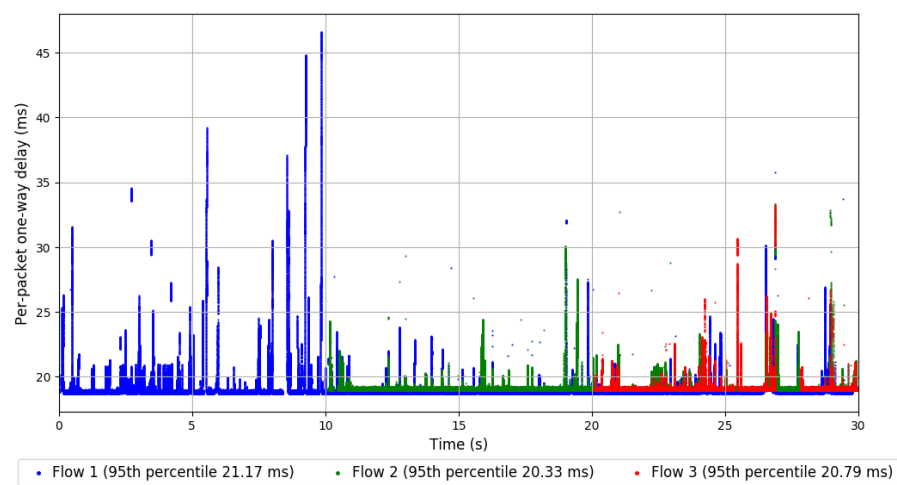
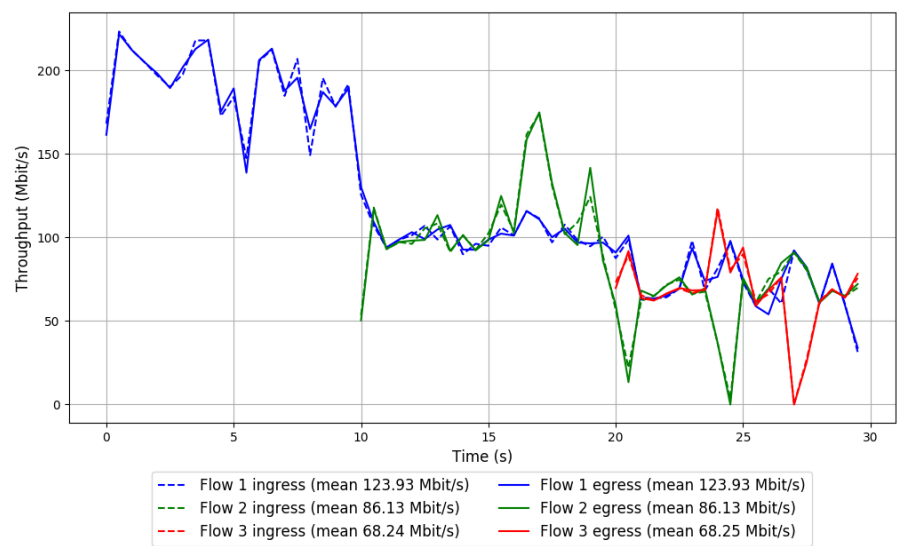
-- Flow 3:

Average throughput: 68.25 Mbit/s

95th percentile per-packet one-way delay: 20.792 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link

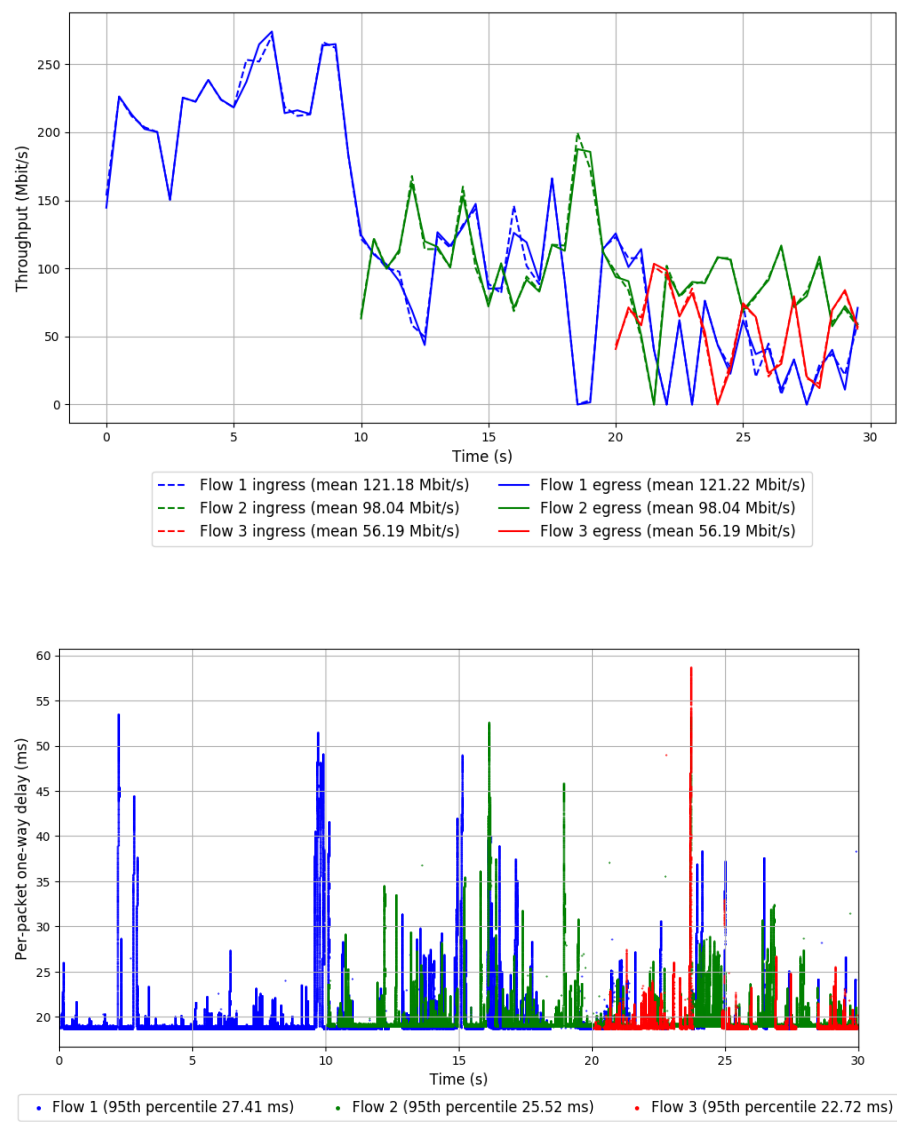


Run 6: Statistics of Verus

Start at: 2017-08-11 11:11:26  
End at: 2017-08-11 11:11:56  
Local clock offset: 0.603 ms  
Remote clock offset: -1.121 ms

# Below is generated by plot.py at 2017-08-11 16:29:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 205.06 Mbit/s  
95th percentile per-packet one-way delay: 26.132 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 121.22 Mbit/s  
95th percentile per-packet one-way delay: 27.415 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 98.04 Mbit/s  
95th percentile per-packet one-way delay: 25.519 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 56.19 Mbit/s  
95th percentile per-packet one-way delay: 22.721 ms  
Loss rate: 0.02%

Run 6: Report of Verus — Data Link



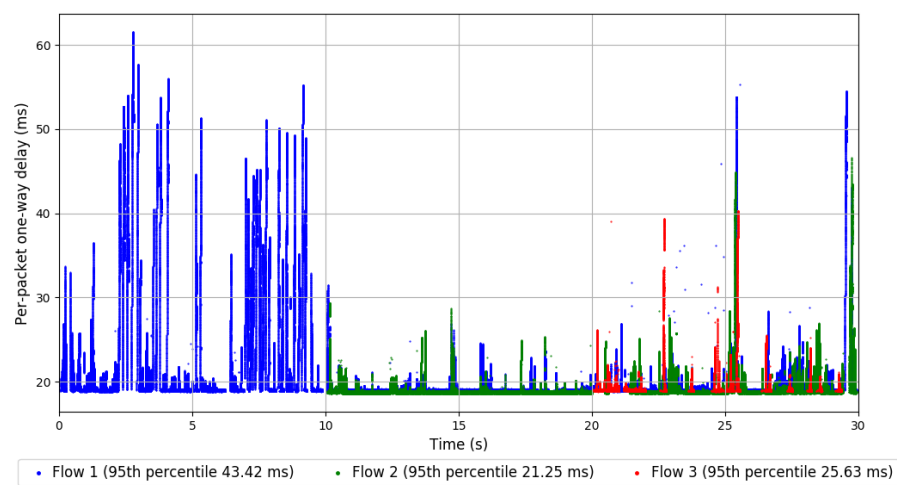
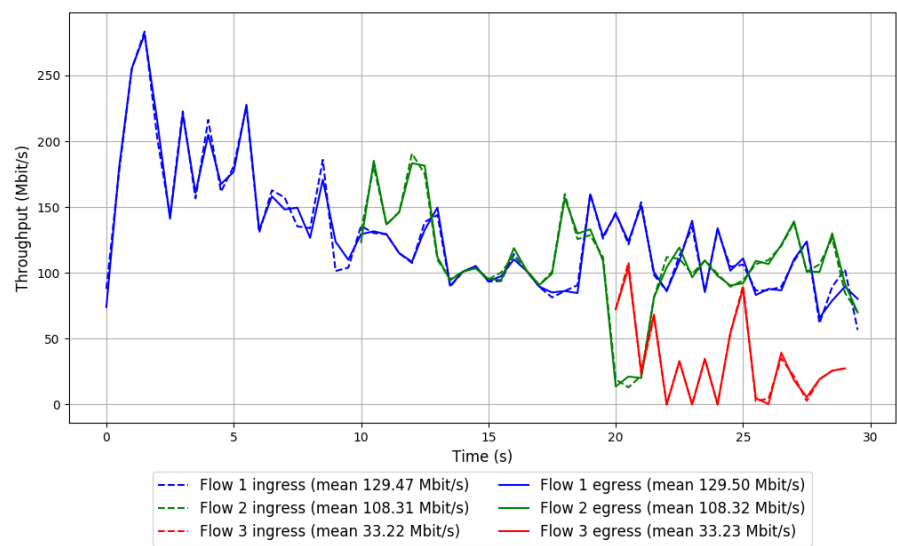
Run 7: Statistics of Verus

Start at: 2017-08-11 11:33:13  
End at: 2017-08-11 11:33:43  
Local clock offset: 0.725 ms  
Remote clock offset: -1.148 ms

# Below is generated by plot.py at 2017-08-11 16:30:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 211.98 Mbit/s  
95th percentile per-packet one-way delay: 35.948 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 129.50 Mbit/s  
95th percentile per-packet one-way delay: 43.418 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 108.32 Mbit/s  
95th percentile per-packet one-way delay: 21.255 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 33.23 Mbit/s  
95th percentile per-packet one-way delay: 25.629 ms  
Loss rate: 0.00%



Run 7: Report of Verus — Data Link

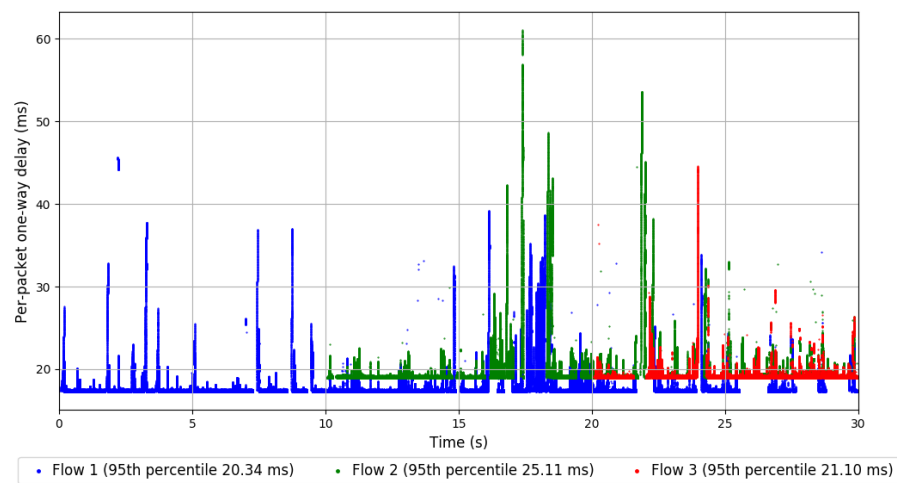
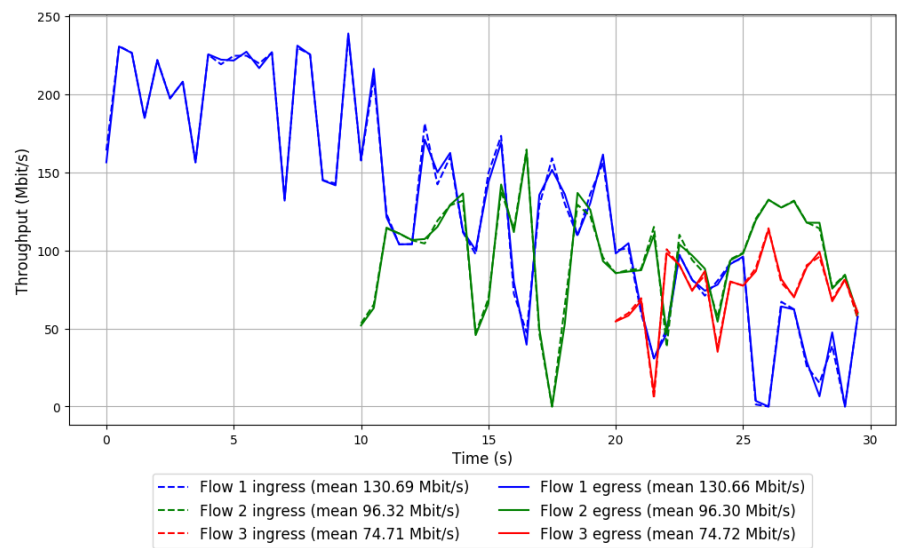


Run 8: Statistics of Verus

Start at: 2017-08-11 11:54:33  
End at: 2017-08-11 11:55:03  
Local clock offset: 0.852 ms  
Remote clock offset: -1.145 ms

# Below is generated by plot.py at 2017-08-11 16:30:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 219.50 Mbit/s  
95th percentile per-packet one-way delay: 21.914 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 130.66 Mbit/s  
95th percentile per-packet one-way delay: 20.336 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 25.113 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 74.72 Mbit/s  
95th percentile per-packet one-way delay: 21.103 ms  
Loss rate: 0.00%

Run 8: Report of Verus — Data Link

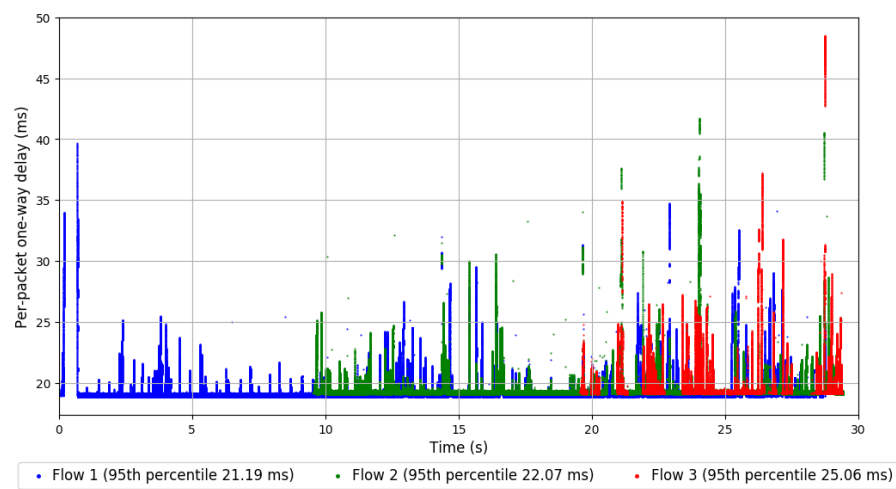
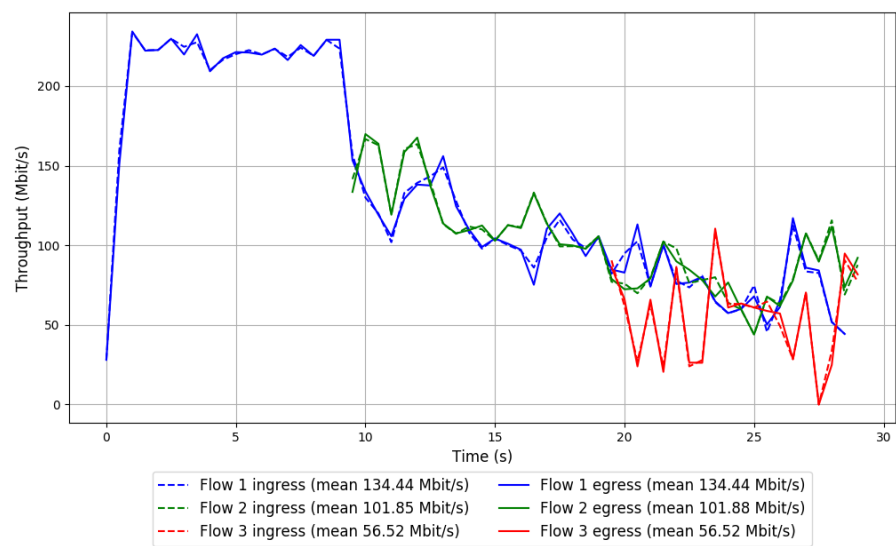


Run 9: Statistics of Verus

Start at: 2017-08-11 12:16:16  
End at: 2017-08-11 12:16:46  
Local clock offset: 0.652 ms  
Remote clock offset: -1.163 ms

# Below is generated by plot.py at 2017-08-11 16:30:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 219.18 Mbit/s  
95th percentile per-packet one-way delay: 21.985 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 134.44 Mbit/s  
95th percentile per-packet one-way delay: 21.191 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 101.88 Mbit/s  
95th percentile per-packet one-way delay: 22.065 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 56.52 Mbit/s  
95th percentile per-packet one-way delay: 25.061 ms  
Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

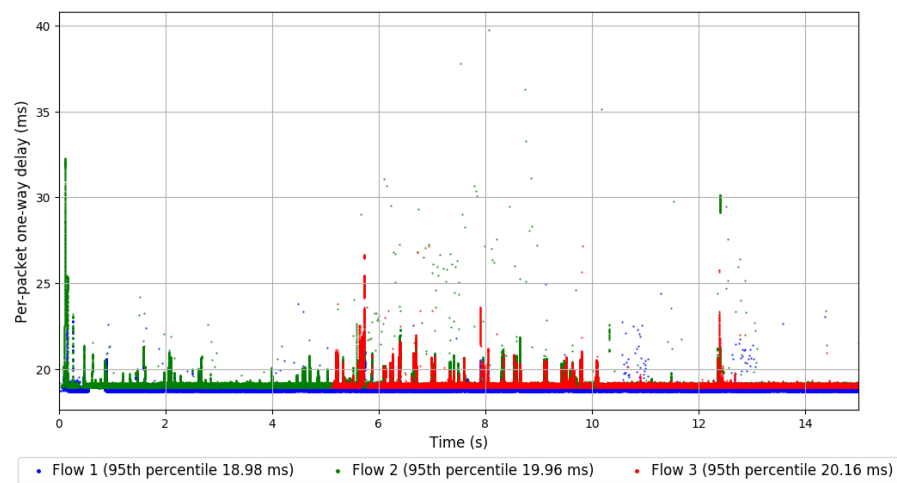
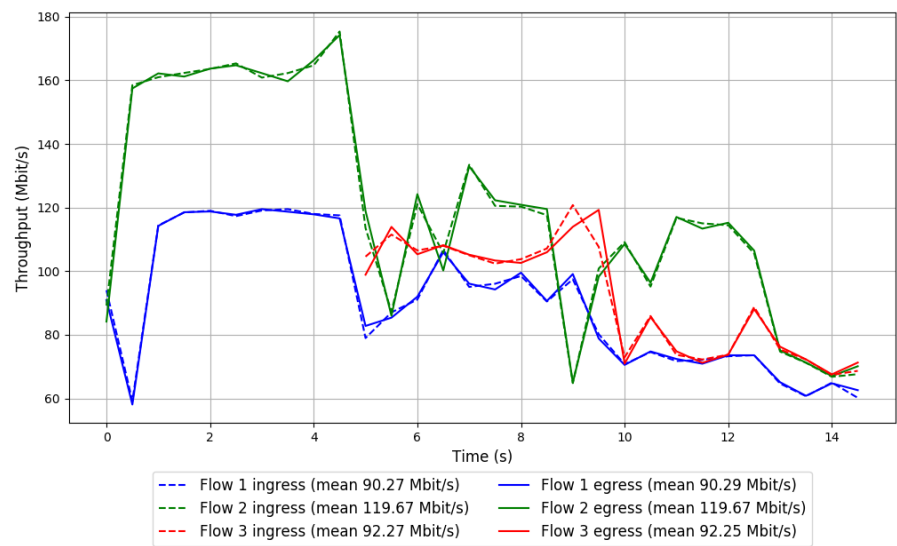
Start at: 2017-08-11 12:37:56

End at: 2017-08-11 12:38:26

Local clock offset: 0.746 ms

Remote clock offset: -1.539 ms

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-08-11 09:27:51

End at: 2017-08-11 09:28:21

Local clock offset: 0.237 ms

Remote clock offset: -0.57 ms

# Below is generated by plot.py at 2017-08-11 16:30:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 19.418 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 19.316 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 19.341 ms

Loss rate: 0.00%

-- Flow 3:

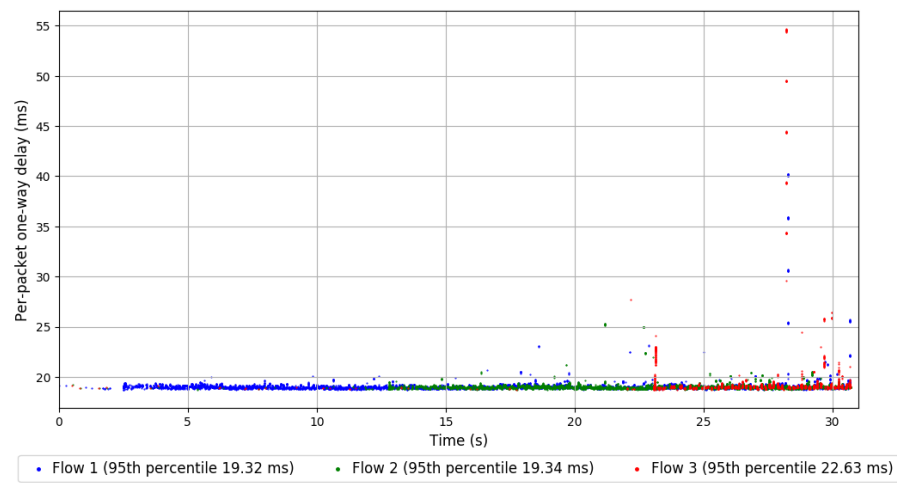
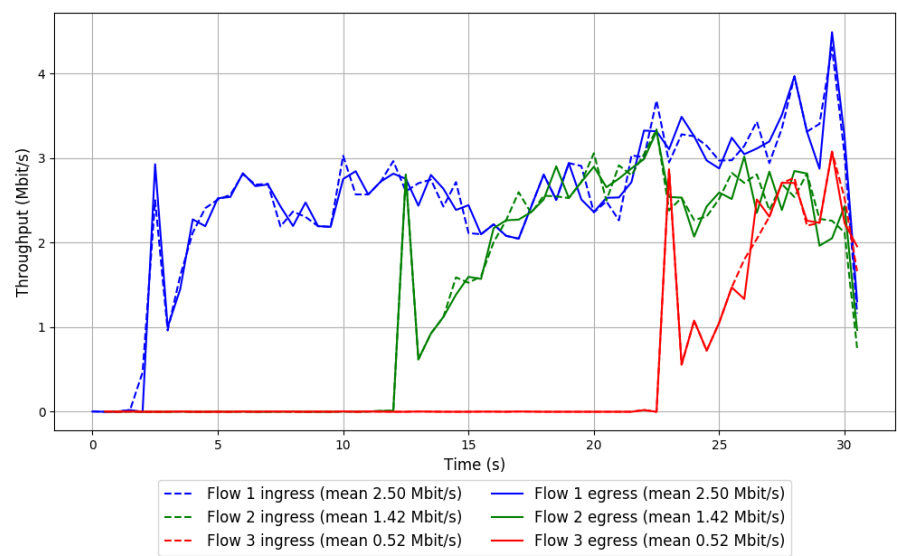
Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 22.633 ms

Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link

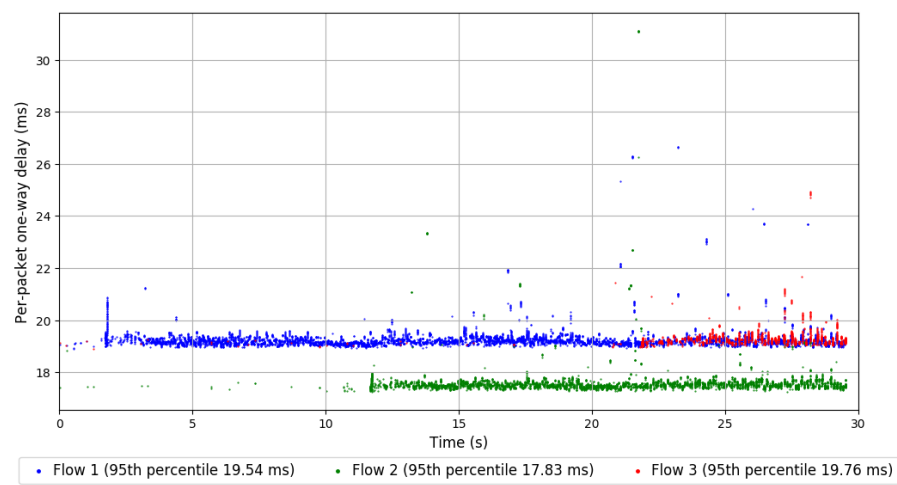
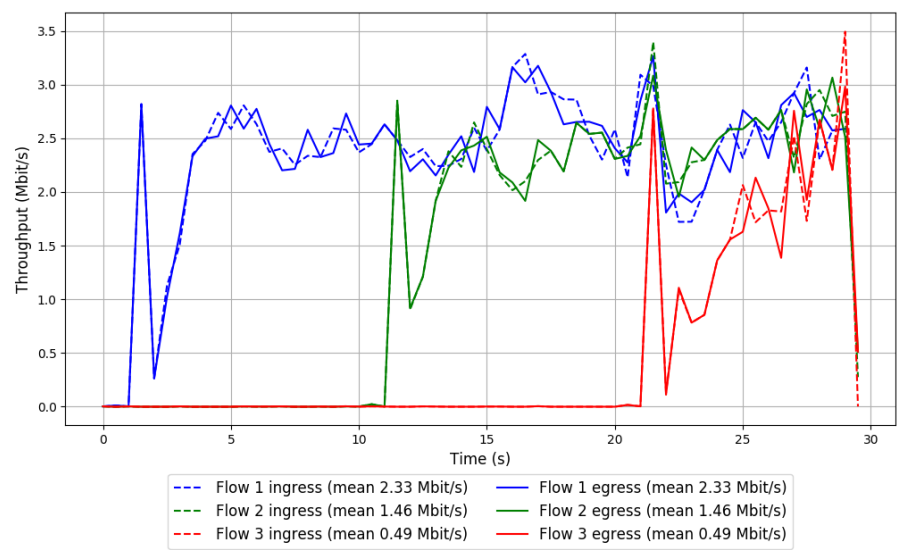


Run 2: Statistics of WebRTC media

Start at: 2017-08-11 09:49:25  
End at: 2017-08-11 09:49:55  
Local clock offset: 0.391 ms  
Remote clock offset: -0.794 ms

# Below is generated by plot.py at 2017-08-11 16:30:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.27 Mbit/s  
95th percentile per-packet one-way delay: 19.495 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: 19.539 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 17.828 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 19.764 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

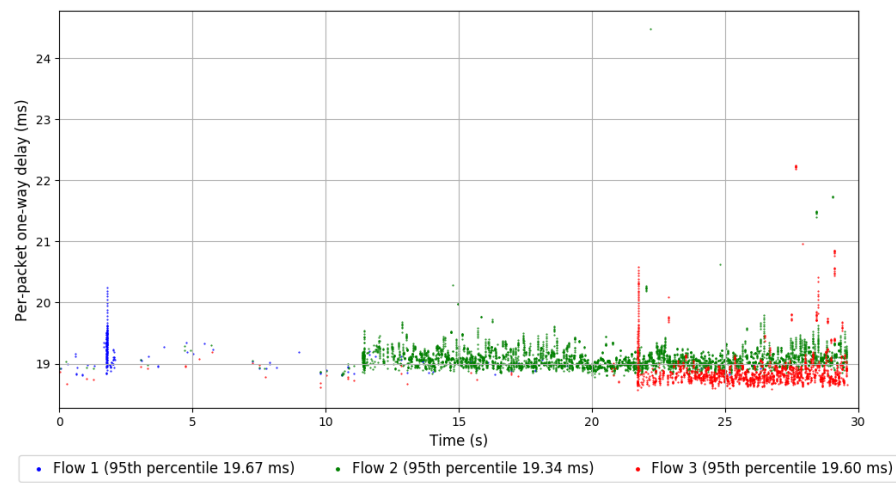
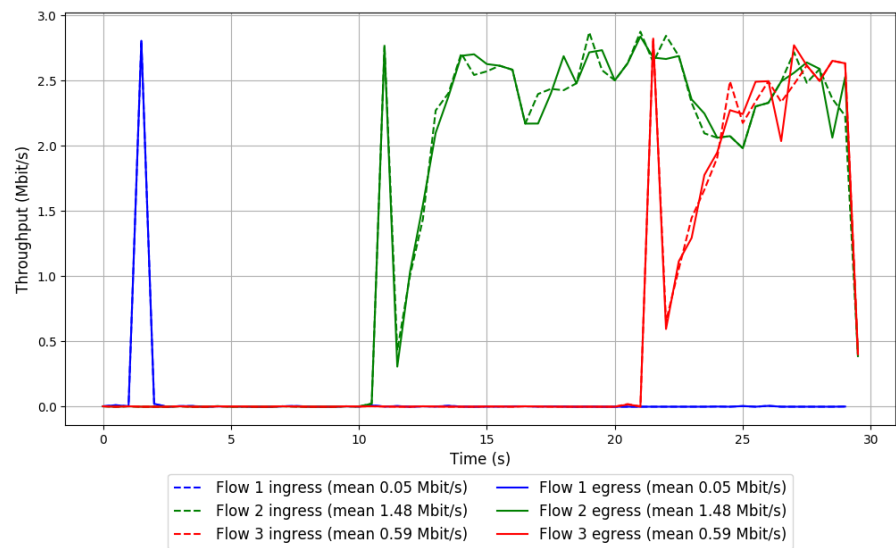


Run 3: Statistics of WebRTC media

Start at: 2017-08-11 10:10:45  
End at: 2017-08-11 10:11:15  
Local clock offset: 0.45 ms  
Remote clock offset: -1.141 ms

# Below is generated by plot.py at 2017-08-11 16:30:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.12 Mbit/s  
95th percentile per-packet one-way delay: 19.381 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 19.674 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 19.343 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 19.596 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

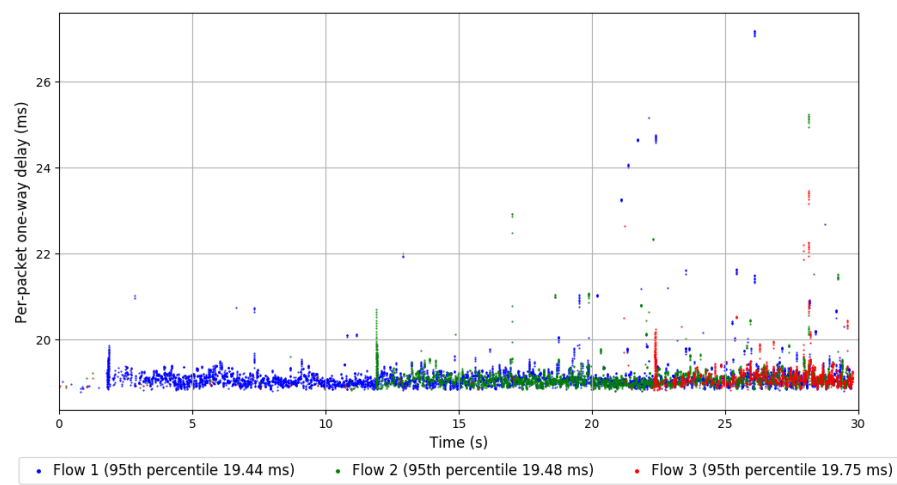
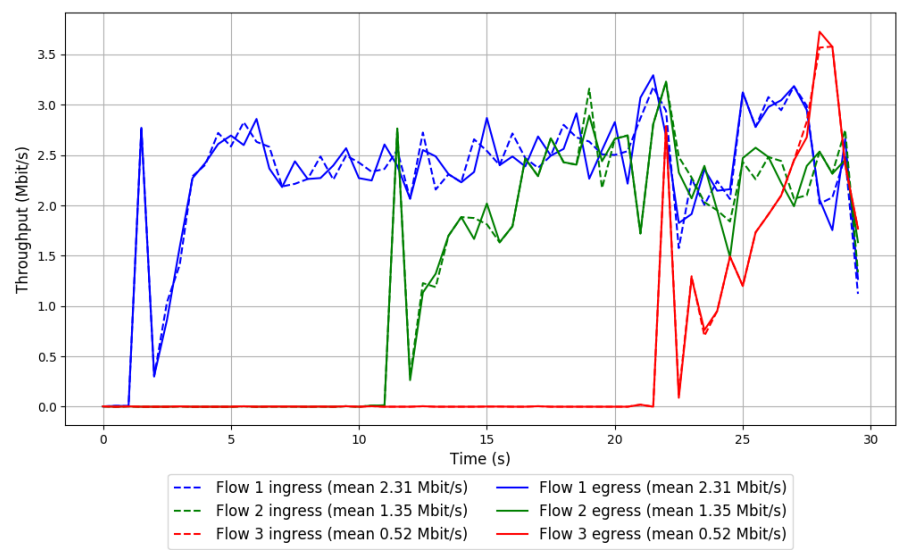


Run 4: Statistics of WebRTC media

Start at: 2017-08-11 10:32:29  
End at: 2017-08-11 10:32:59  
Local clock offset: 0.526 ms  
Remote clock offset: -1.221 ms

# Below is generated by plot.py at 2017-08-11 16:30:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.17 Mbit/s  
95th percentile per-packet one-way delay: 19.477 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 19.436 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.35 Mbit/s  
95th percentile per-packet one-way delay: 19.476 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 19.752 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



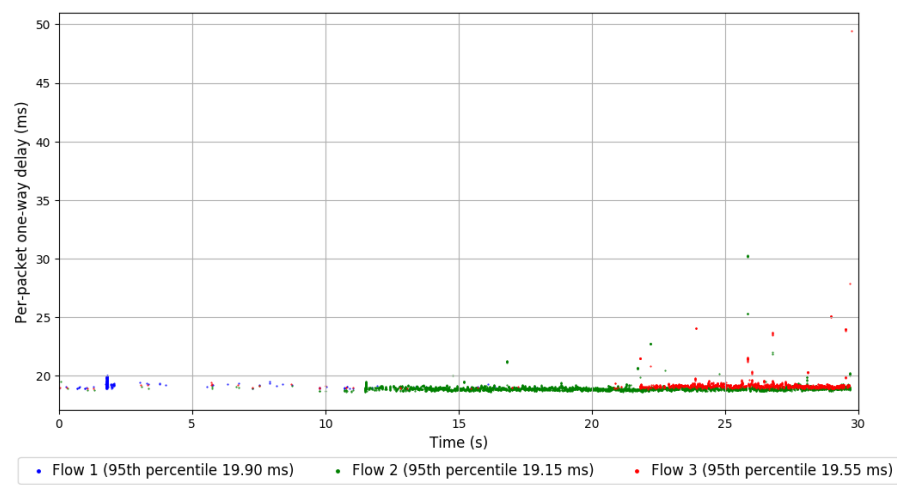
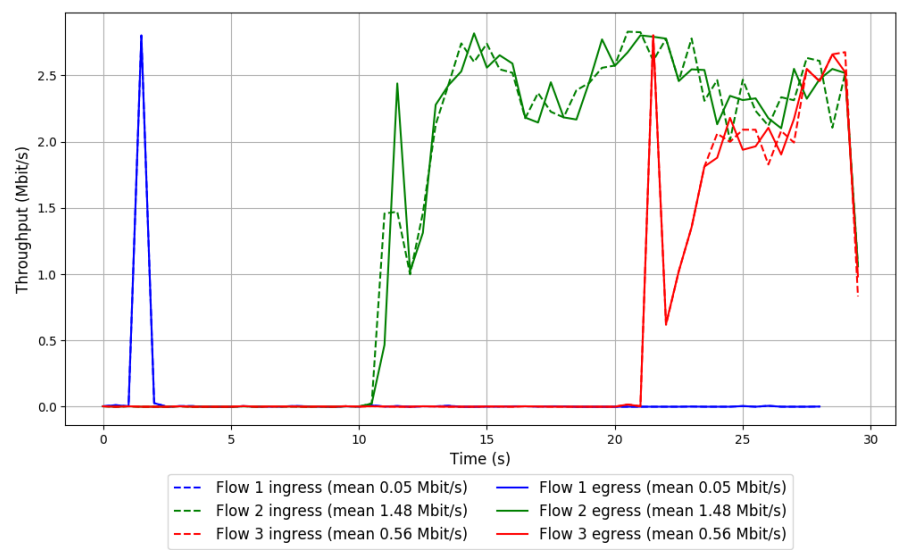
Run 5: Statistics of WebRTC media

Start at: 2017-08-11 10:54:04  
End at: 2017-08-11 10:54:34  
Local clock offset: 0.5 ms  
Remote clock offset: -1.302 ms

# Below is generated by plot.py at 2017-08-11 16:30:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.08 Mbit/s  
95th percentile per-packet one-way delay: 19.334 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 19.899 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 19.151 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 19.549 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-11 11:15:32

End at: 2017-08-11 11:16:02

Local clock offset: 0.535 ms

Remote clock offset: -1.13 ms

# Below is generated by plot.py at 2017-08-11 16:30:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 19.493 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 19.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 19.316 ms

Loss rate: 0.00%

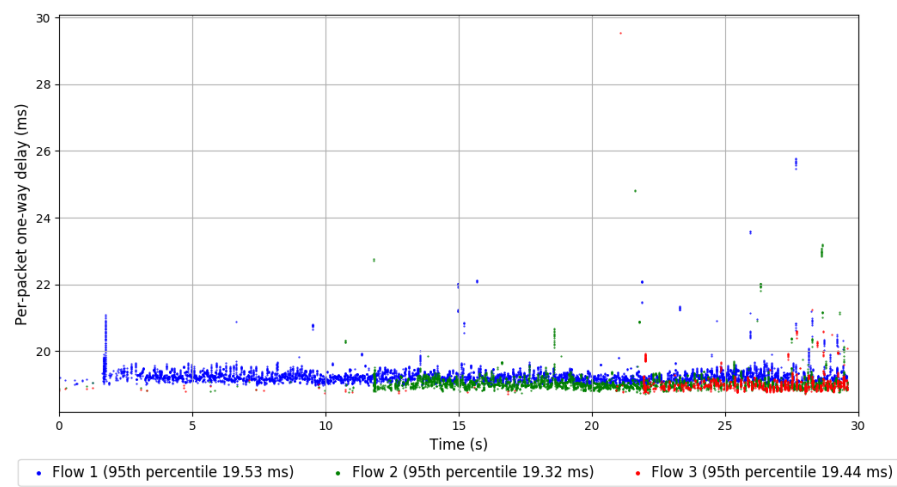
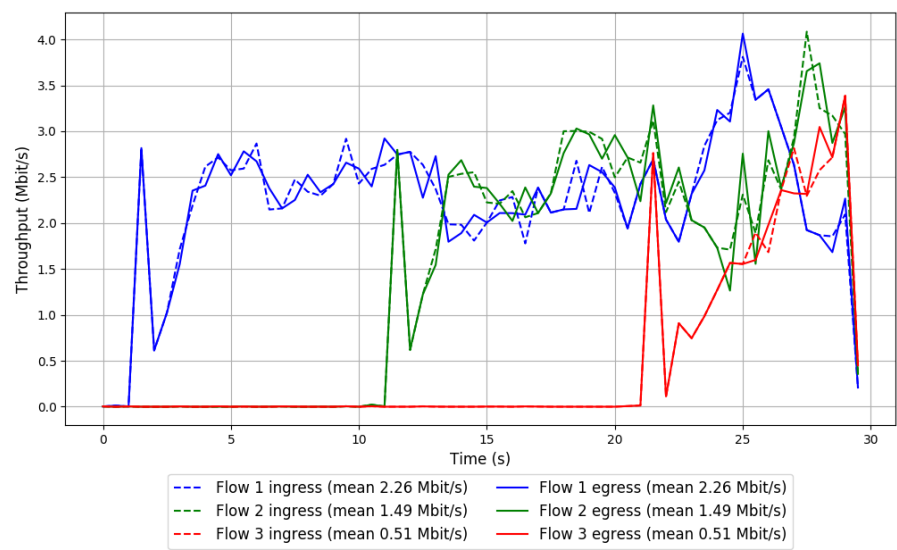
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 19.440 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

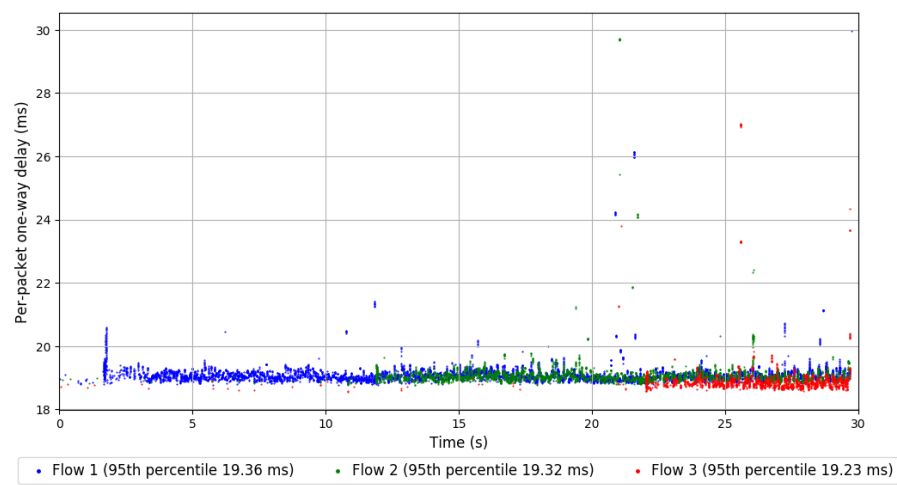
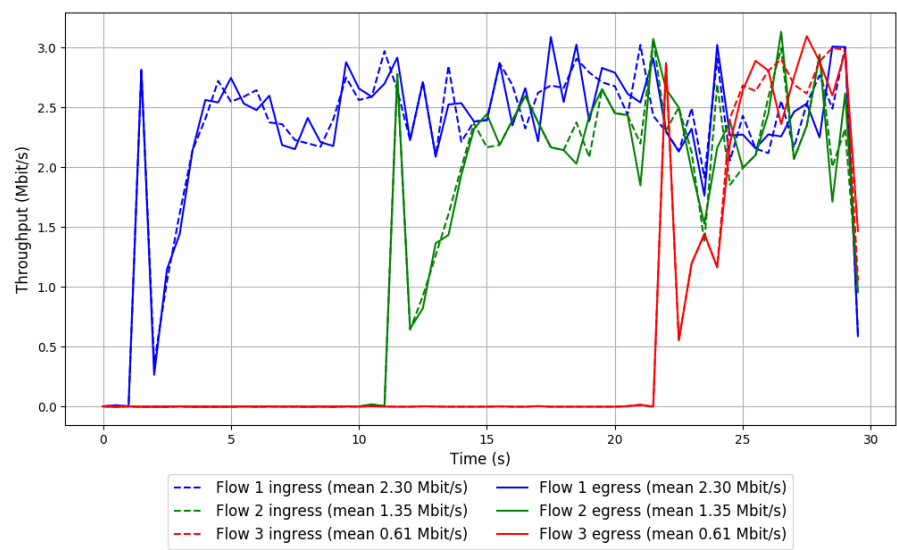


Run 7: Statistics of WebRTC media

Start at: 2017-08-11 11:37:19  
End at: 2017-08-11 11:37:49  
Local clock offset: 0.738 ms  
Remote clock offset: -1.154 ms

# Below is generated by plot.py at 2017-08-11 16:30:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.25 Mbit/s  
95th percentile per-packet one-way delay: 19.337 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.30 Mbit/s  
95th percentile per-packet one-way delay: 19.356 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.35 Mbit/s  
95th percentile per-packet one-way delay: 19.322 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 19.230 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-11 11:58:40

End at: 2017-08-11 11:59:10

Local clock offset: 0.823 ms

Remote clock offset: -1.23 ms

# Below is generated by plot.py at 2017-08-11 16:30:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 19.388 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 19.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 19.617 ms

Loss rate: 0.00%

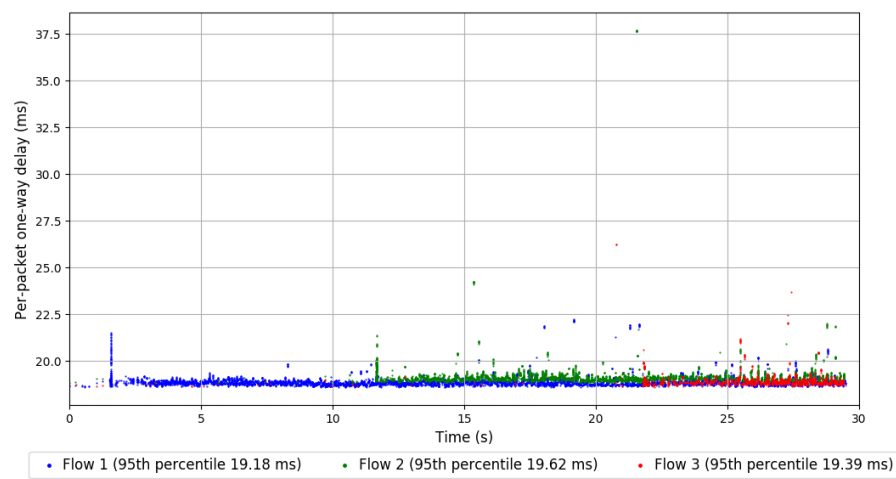
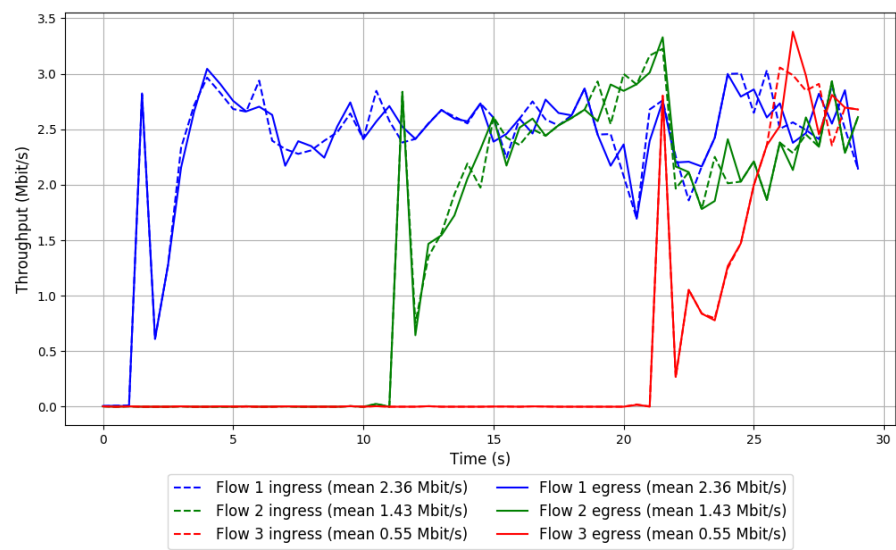
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 19.394 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



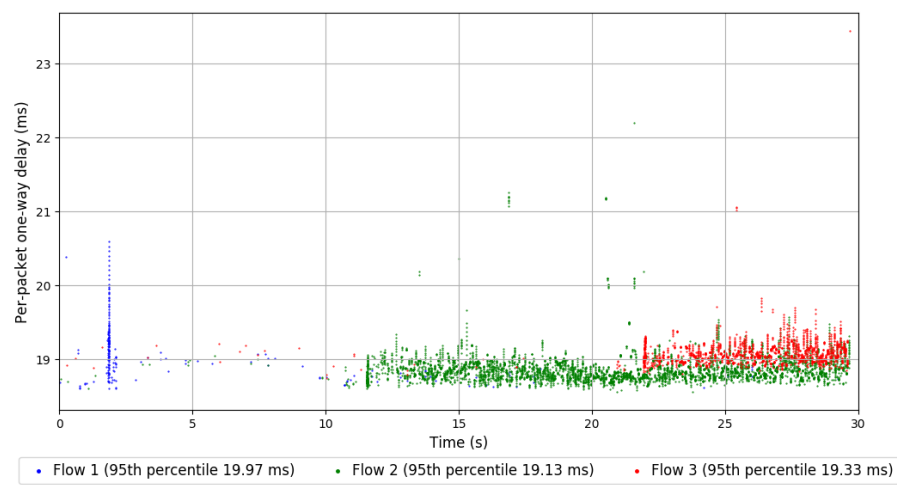
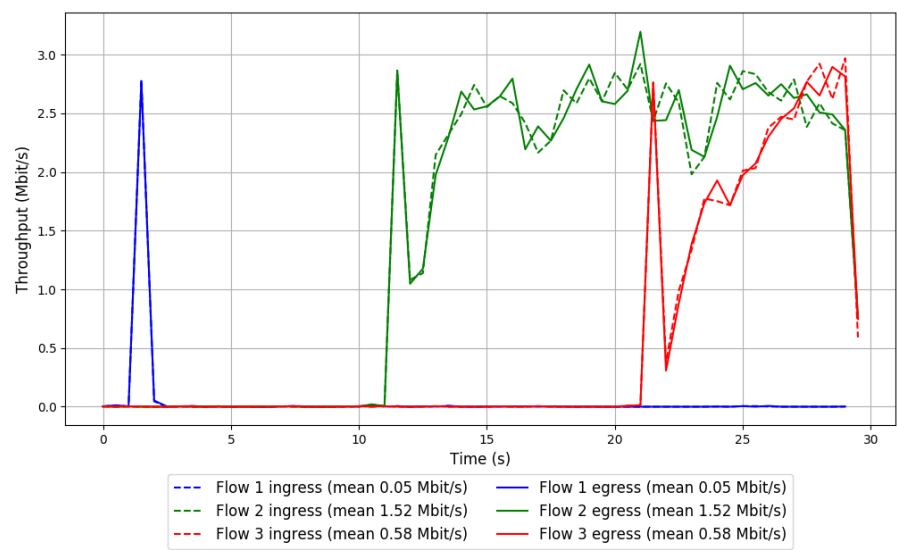
Run 9: Statistics of WebRTC media

Start at: 2017-08-11 12:20:22  
End at: 2017-08-11 12:20:52  
Local clock offset: 0.769 ms  
Remote clock offset: -1.379 ms

# Below is generated by plot.py at 2017-08-11 16:30:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 19.253 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 19.972 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.52 Mbit/s  
95th percentile per-packet one-way delay: 19.132 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 19.333 ms  
Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-11 12:41:55  
End at: 2017-08-11 12:42:25  
Local clock offset: 0.745 ms  
Remote clock offset: -1.554 ms

# Below is generated by plot.py at 2017-08-11 16:30:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.41 Mbit/s  
95th percentile per-packet one-way delay: 19.382 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 19.447 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.58 Mbit/s  
95th percentile per-packet one-way delay: 19.312 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 17.863 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

