

**Pantheon Summary** (Generated at Tue, 01 Aug 2017 08:49:17 +0000 with pantheon version 33c7b8d34ce04c76596315aa973f0b30d6129d55)

Repeated the test of 15 congestion control schemes 10 times.

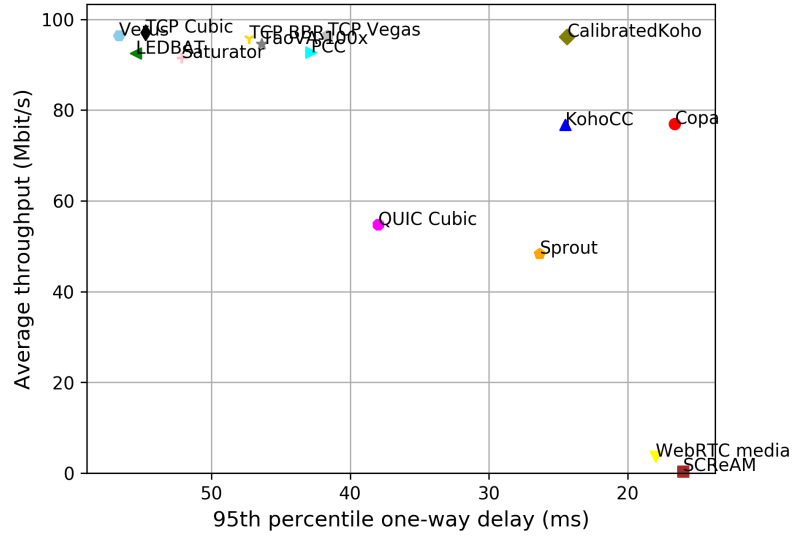
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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

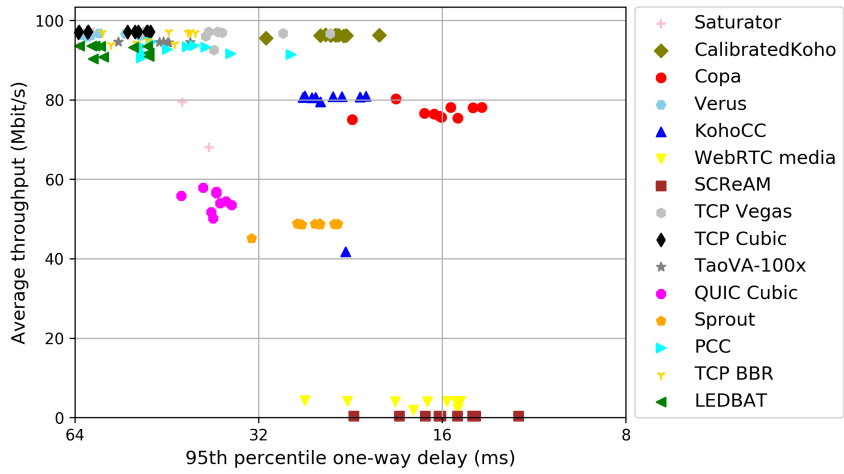
NTP offset measured against nets.org.sg and has been applied to correct the timestamps in logs.

```
git branch: master @ 33c7b8d34ce04c76596315aa973f0b30d6129d55
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
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
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 India Ethernet to AWS India 1 Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



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





scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	57.96	40.11	31.37	43.27	45.79	54.77	0.10	0.20	0.51
CalibratedKoho	10	54.67	41.53	41.61	24.08	24.34	25.29	0.03	0.11	0.31
Copa	10	41.47	36.88	31.40	16.34	16.66	17.24	0.06	0.10	0.26
TCP Cubic	10	59.91	42.90	28.84	52.30	48.81	55.04	0.13	0.31	0.90
KohoCC	10	162.62	40.29	36.46	270.16	24.35	23.59	0.05	0.12	0.30
LEDBAT	10	57.77	36.28	31.74	48.80	55.56	49.00	0.11	0.24	0.66
PCC	10	65.39	30.40	21.46	41.57	41.89	39.56	0.06	0.15	0.29
QUIC Cubic	10	0.25	59.05	46.75	15.05	37.77	38.11	0.00	0.22	0.38
Saturator	10	209.72	46.41	38.66	447.79	52.17	47.22	0.11	0.25	0.62
SCReAM	10	0.21	0.21	0.22	16.02	16.01	15.98	0.05	0.12	0.03
Sprout	10	24.40	24.15	23.77	25.95	26.31	27.30	0.10	0.14	0.33
TaoVA-100x	10	58.33	39.12	30.52	43.22	46.56	46.79	0.10	0.21	0.53
TCP Vegas	10	59.22	38.31	36.30	38.12	34.76	35.18	0.08	0.11	0.37
Verus	10	57.70	42.06	32.50	54.29	50.22	52.60	0.11	0.23	0.60
WebRTC media	10	1.85	1.37	0.49	17.89	18.08	18.31	0.05	0.26	0.48

Run 1: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 05:01:54 +0000

End at: Tue, 01 Aug 2017 05:02:24 +0000

Local clock offset: 0.205 ms

Remote clock offset: -2.54 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:35:37 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 40.647 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 40.207 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 37.30 Mbit/s

95th percentile per-packet one-way delay: 42.146 ms

Loss rate: 0.14%

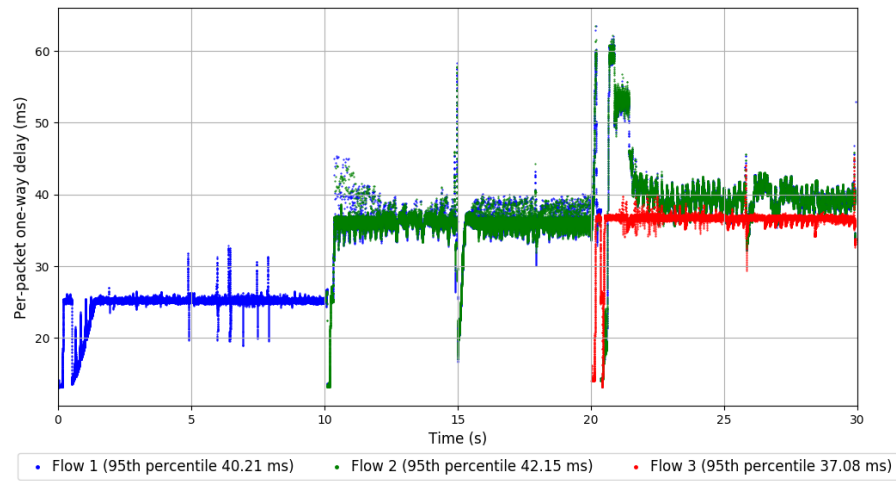
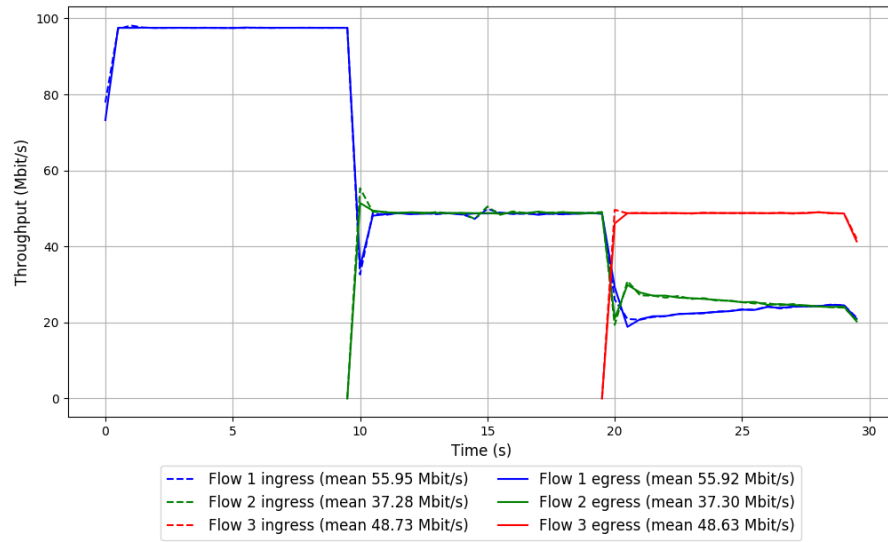
-- Flow 3:

Average throughput: 48.63 Mbit/s

95th percentile per-packet one-way delay: 37.082 ms

Loss rate: 0.44%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 05:19:57 +0000

End at: Tue, 01 Aug 2017 05:20:27 +0000

Local clock offset: -0.213 ms

Remote clock offset: -3.476 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:35:38 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 41.368 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 38.658 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 40.90 Mbit/s

95th percentile per-packet one-way delay: 42.656 ms

Loss rate: 0.21%

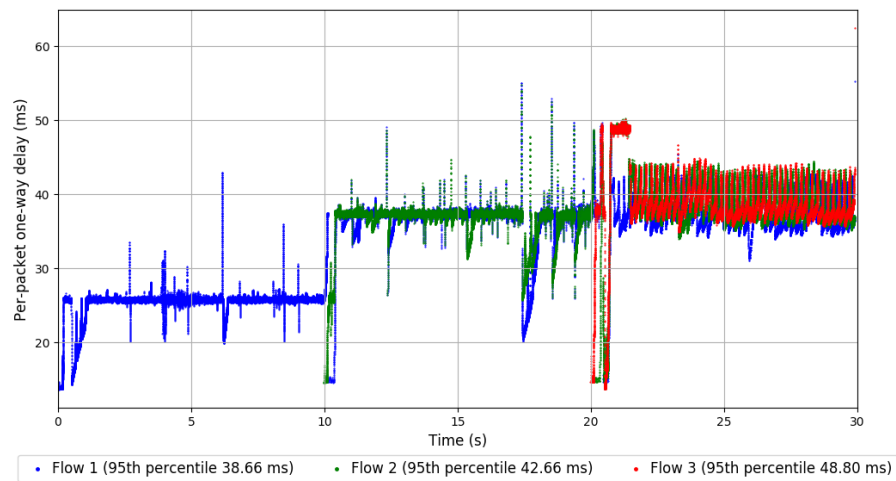
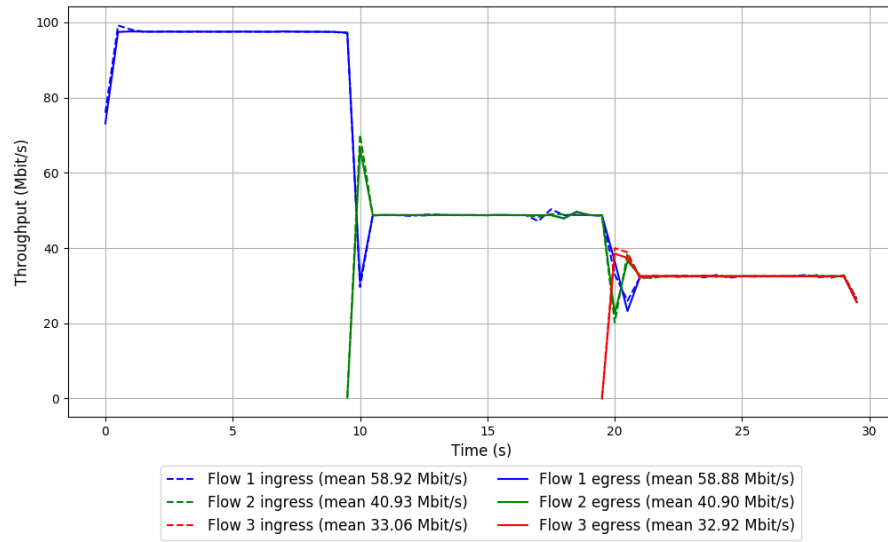
-- Flow 3:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 48.800 ms

Loss rate: 0.49%

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



Run 3: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 05:38:22 +0000

End at: Tue, 01 Aug 2017 05:38:52 +0000

Local clock offset: 0.713 ms

Remote clock offset: -5.42 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:35:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.88 Mbit/s

95th percentile per-packet one-way delay: 48.599 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 46.860 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 40.656 ms

Loss rate: 0.24%

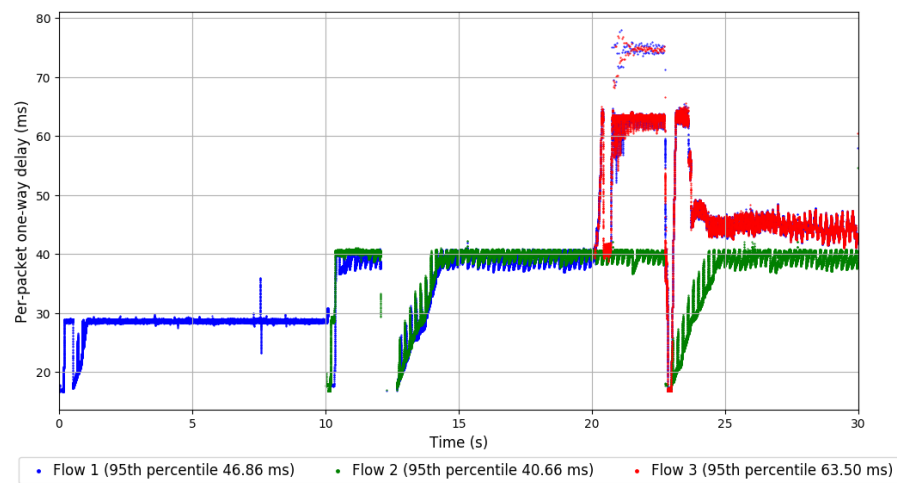
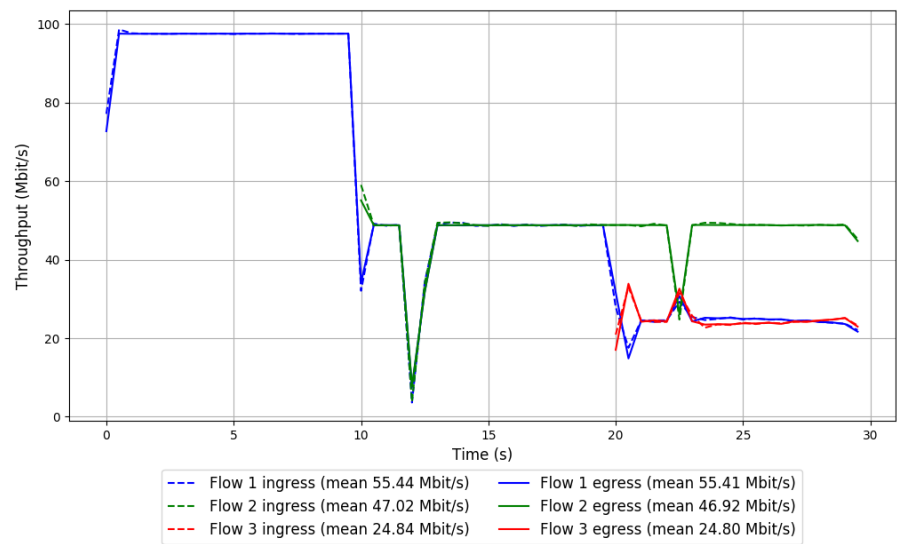
-- Flow 3:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 0.50%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 05:56:36 +0000

End at: Tue, 01 Aug 2017 05:57:06 +0000

Local clock offset: 0.155 ms

Remote clock offset: -3.039 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:35:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 50.767 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 37.903 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 55.093 ms

Loss rate: 0.11%

-- Flow 3:

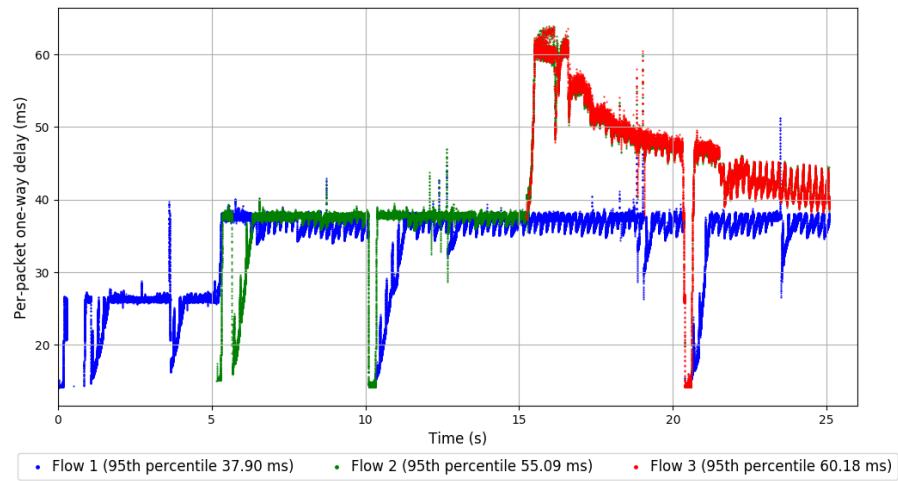
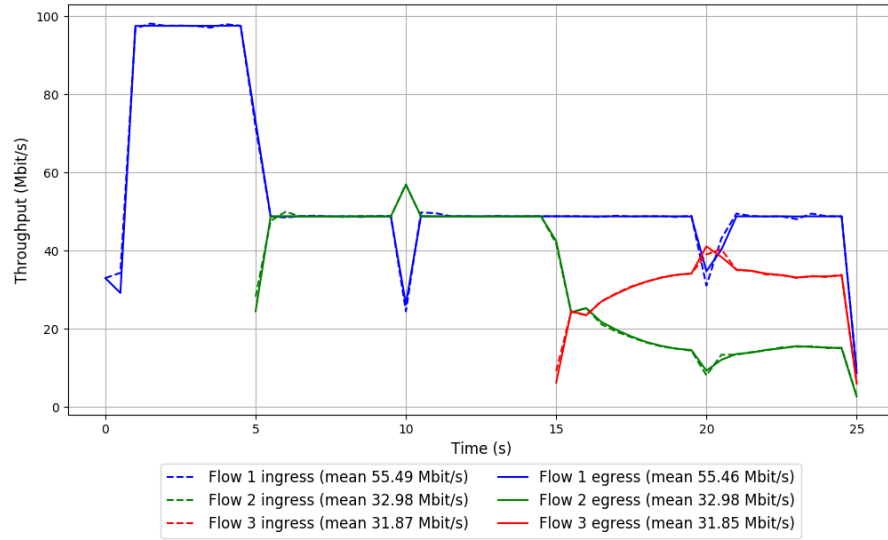
Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 60.178 ms

Loss rate: 0.52%



# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

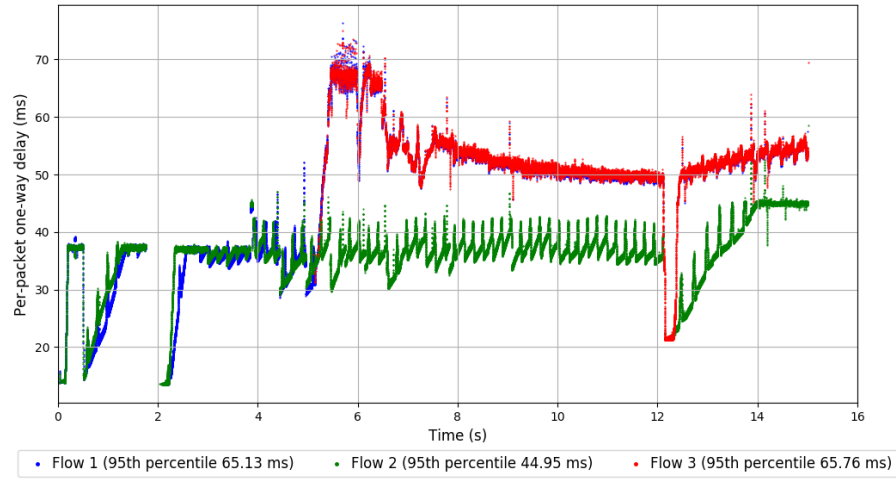
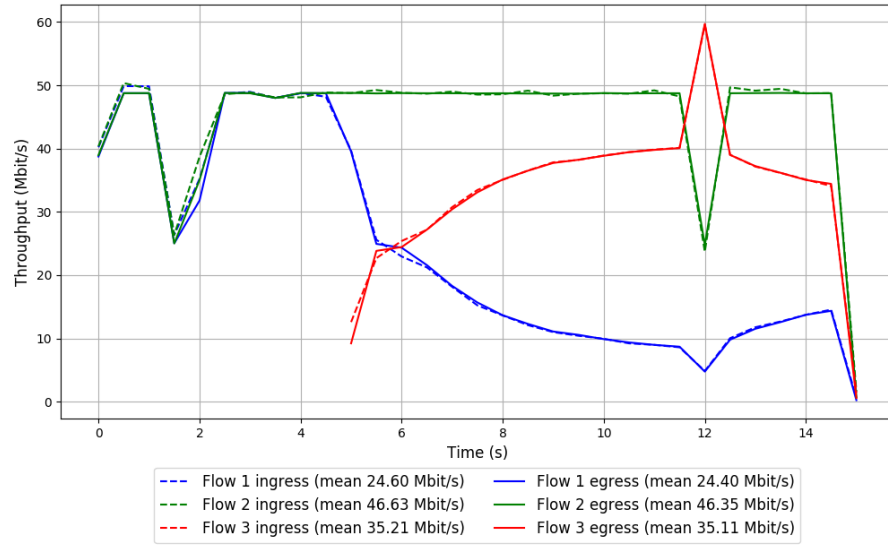
Start at: Tue, 01 Aug 2017 06:14:50 +0000

End at: Tue, 01 Aug 2017 06:15:20 +0000

Local clock offset: -0.676 ms

Remote clock offset: -3.167 ms

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



Run 6: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 06:32:42 +0000

End at: Tue, 01 Aug 2017 06:33:12 +0000

Local clock offset: -2.032 ms

Remote clock offset: -2.649 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:02 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 41.795 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 38.277 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 41.969 ms

Loss rate: 0.20%

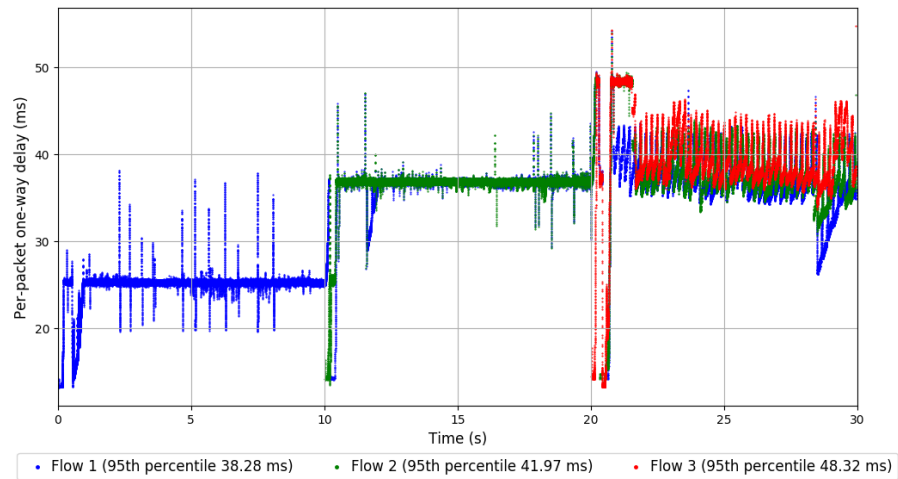
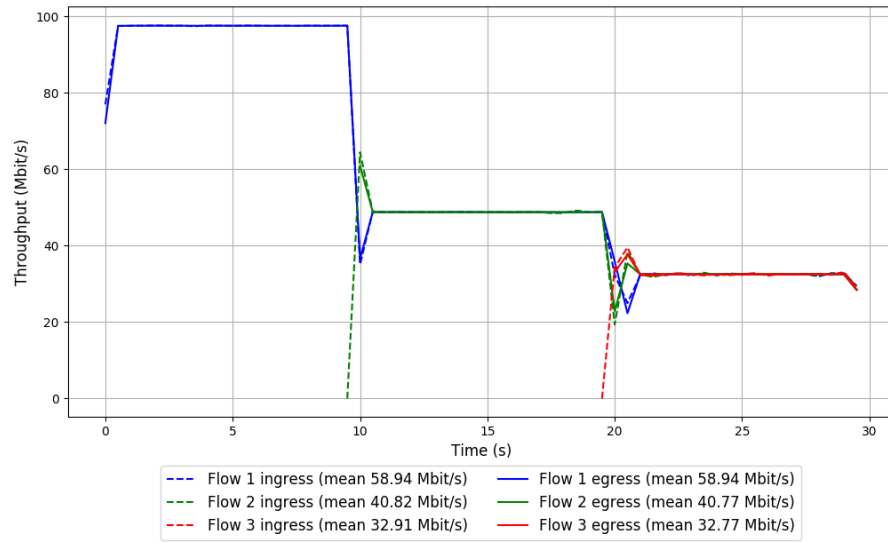
-- Flow 3:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 48.324 ms

Loss rate: 0.54%

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



Run 7: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 06:51:02 +0000

End at: Tue, 01 Aug 2017 06:51:32 +0000

Local clock offset: -0.108 ms

Remote clock offset: -5.077 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:08 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 44.917 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 64.06 Mbit/s

95th percentile per-packet one-way delay: 40.405 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.72 Mbit/s

95th percentile per-packet one-way delay: 46.505 ms

Loss rate: 0.16%

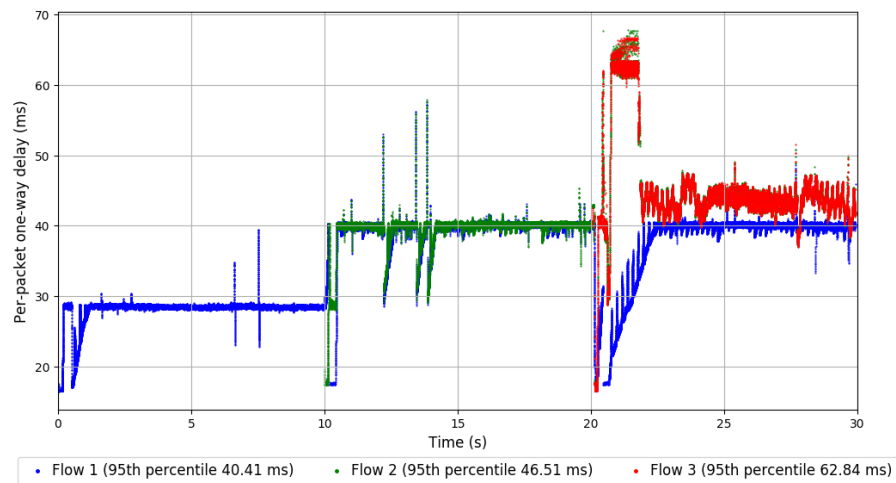
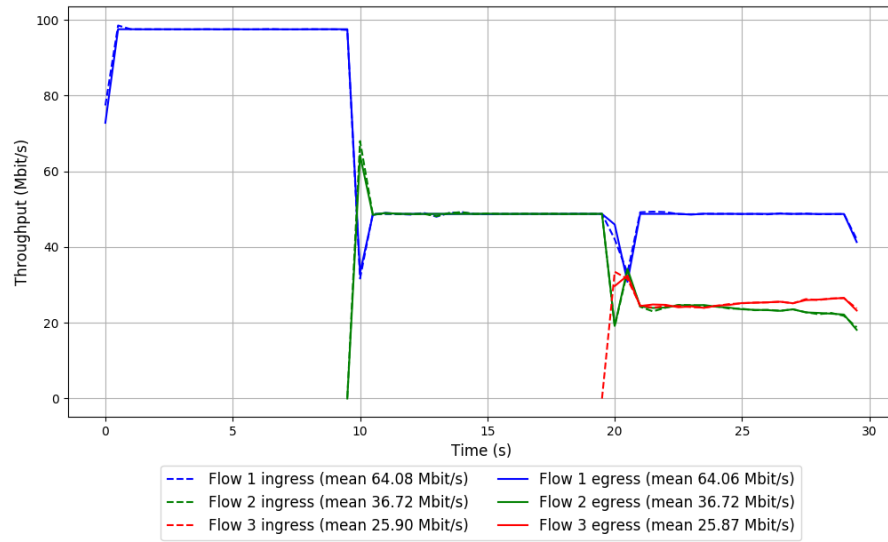
-- Flow 3:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 62.841 ms

Loss rate: 0.56%

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



Run 8: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 07:08:59 +0000

End at: Tue, 01 Aug 2017 07:09:29 +0000

Local clock offset: -1.245 ms

Remote clock offset: -5.355 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:15 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.85 Mbit/s

95th percentile per-packet one-way delay: 55.905 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 46.12 Mbit/s

95th percentile per-packet one-way delay: 39.601 ms

Loss rate: 0.25%

-- Flow 3:

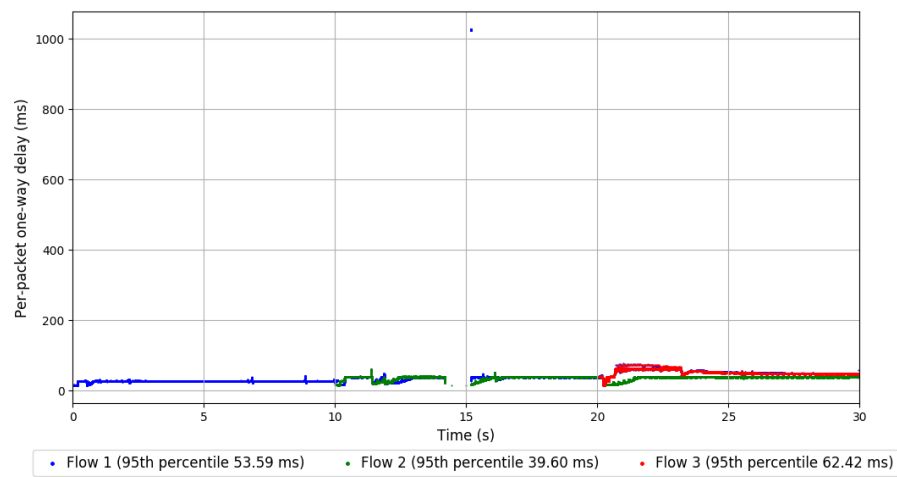
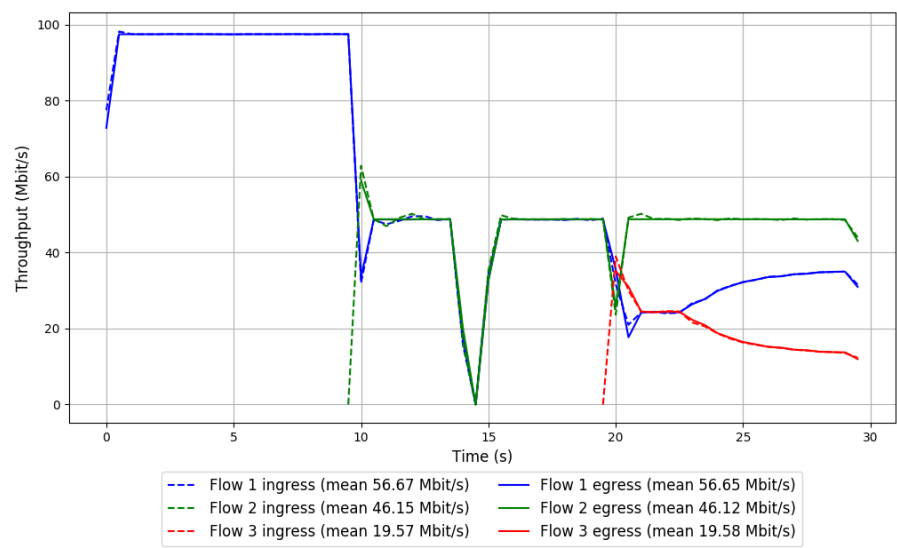
Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 62.423 ms

Loss rate: 0.39%



Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 07:27:15 +0000

End at: Tue, 01 Aug 2017 07:27:45 +0000

Local clock offset: -0.034 ms

Remote clock offset: -5.318 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:21 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 43.964 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 40.367 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 45.420 ms

Loss rate: 0.20%

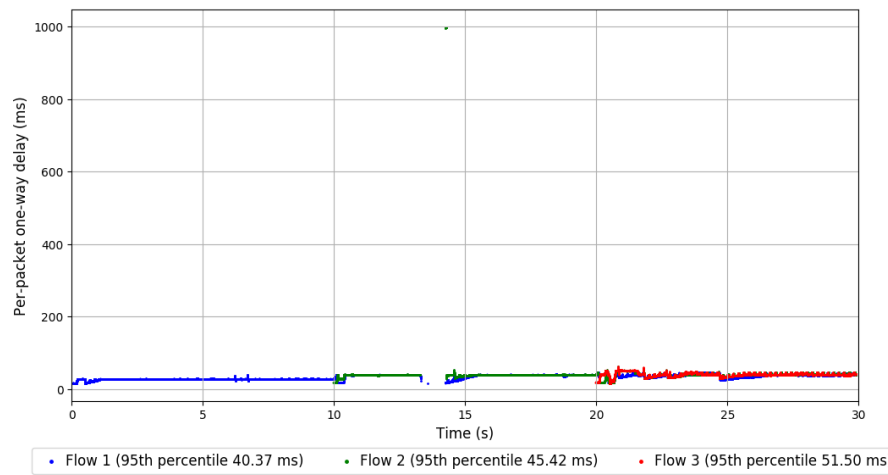
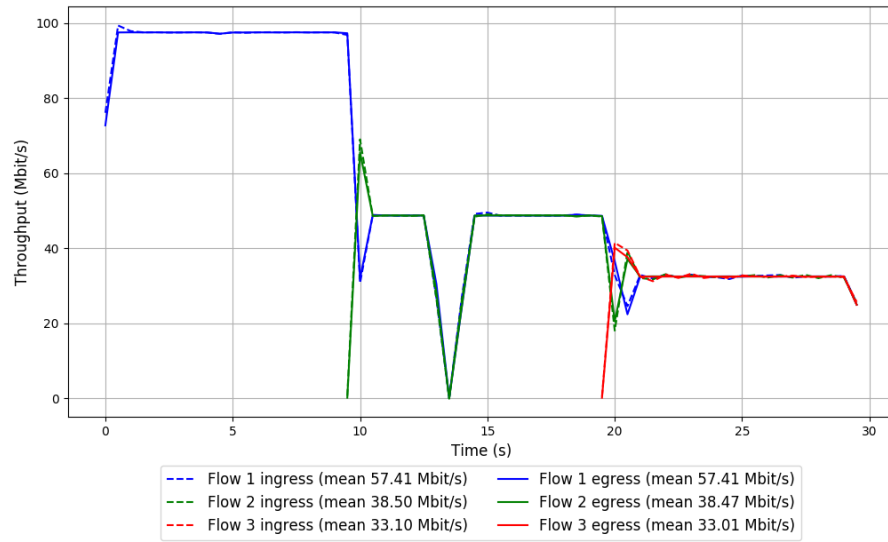
-- Flow 3:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 51.501 ms

Loss rate: 0.49%

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



Run 10: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 07:45:14 +0000

End at: Tue, 01 Aug 2017 07:45:44 +0000

Local clock offset: -0.175 ms

Remote clock offset: -5.751 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 57.692 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 53.204 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 58.066 ms

Loss rate: 0.26%

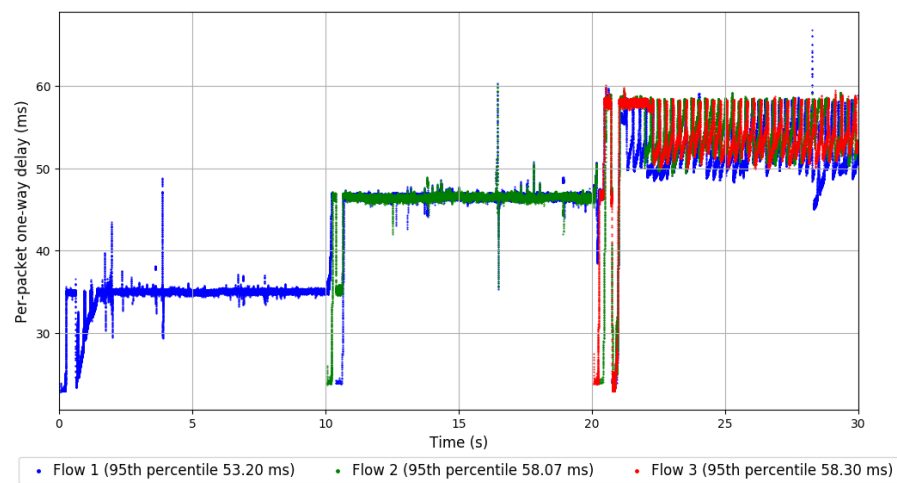
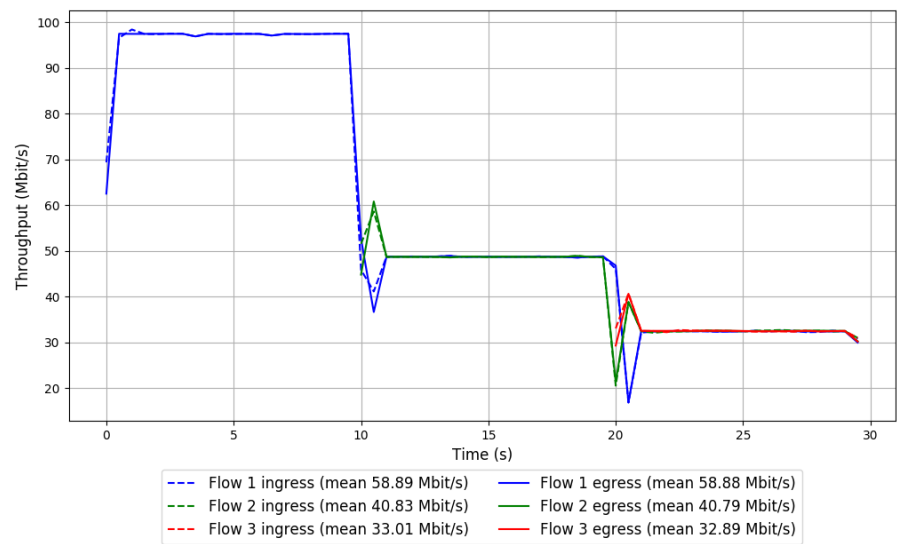
-- Flow 3:

Average throughput: 32.89 Mbit/s

95th percentile per-packet one-way delay: 58.300 ms

Loss rate: 0.65%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 04:57:08 +0000

End at: Tue, 01 Aug 2017 04:57:38 +0000

Local clock offset: 2.37 ms

Remote clock offset: -3.029 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:34 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 24.365 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 48.86 Mbit/s

95th percentile per-packet one-way delay: 24.194 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 24.243 ms

Loss rate: 0.15%

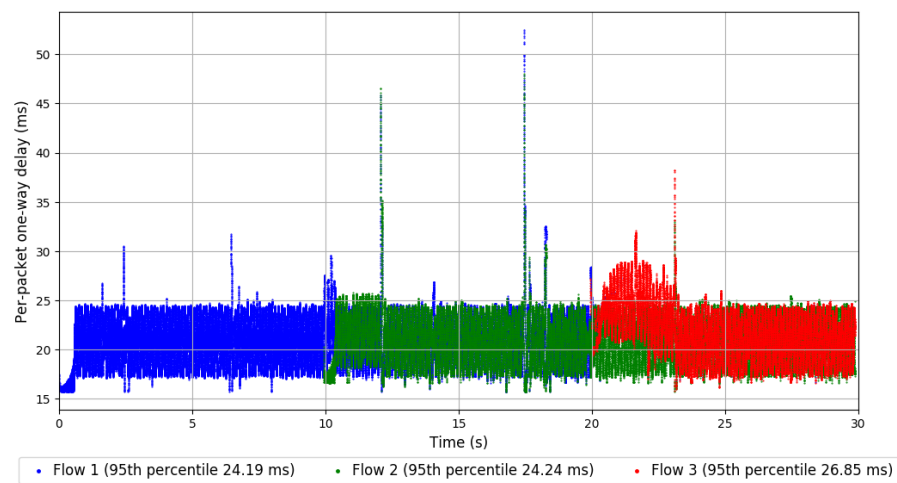
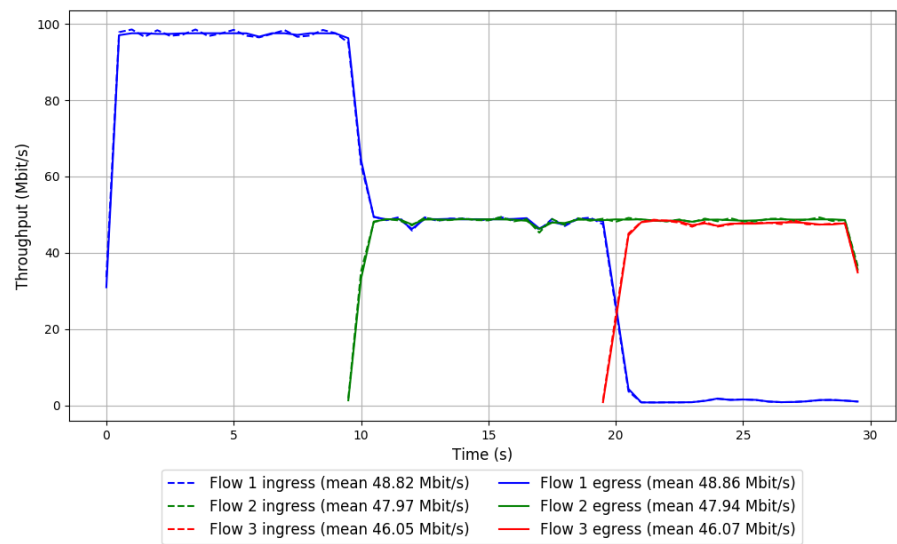
-- Flow 3:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 26.850 ms

Loss rate: 0.25%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 05:15:07 +0000

End at: Tue, 01 Aug 2017 05:15:37 +0000

Local clock offset: 0.385 ms

Remote clock offset: -3.601 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 22.997 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 22.770 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 23.268 ms

Loss rate: 0.13%

-- Flow 3:

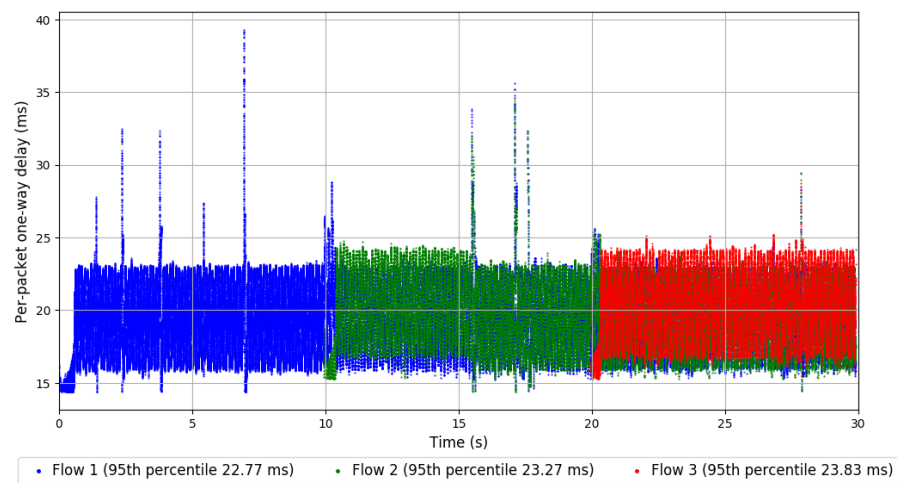
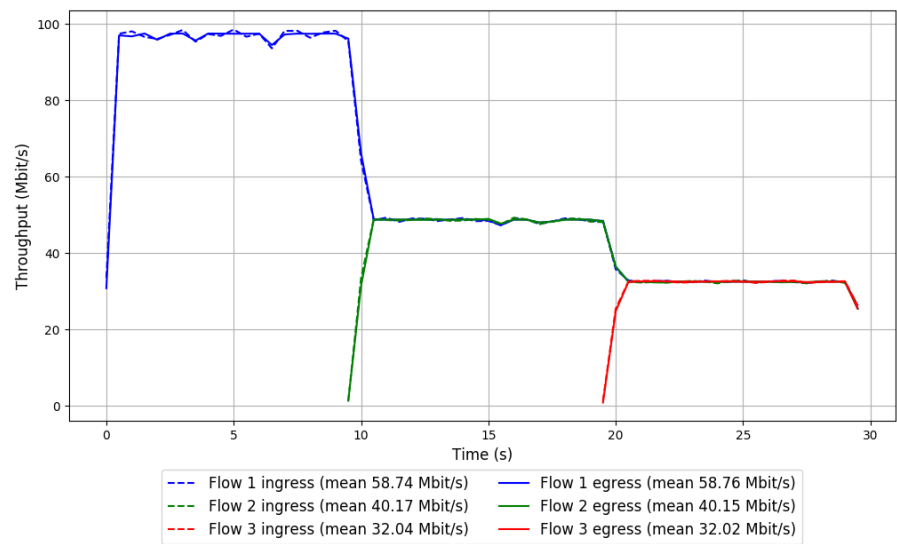
Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 23.827 ms

Loss rate: 0.32%



Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 05:33:36 +0000

End at: Tue, 01 Aug 2017 05:34:06 +0000

Local clock offset: -5.122 ms

Remote clock offset: -6.344 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 20.286 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 19.950 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 20.976 ms

Loss rate: 0.12%

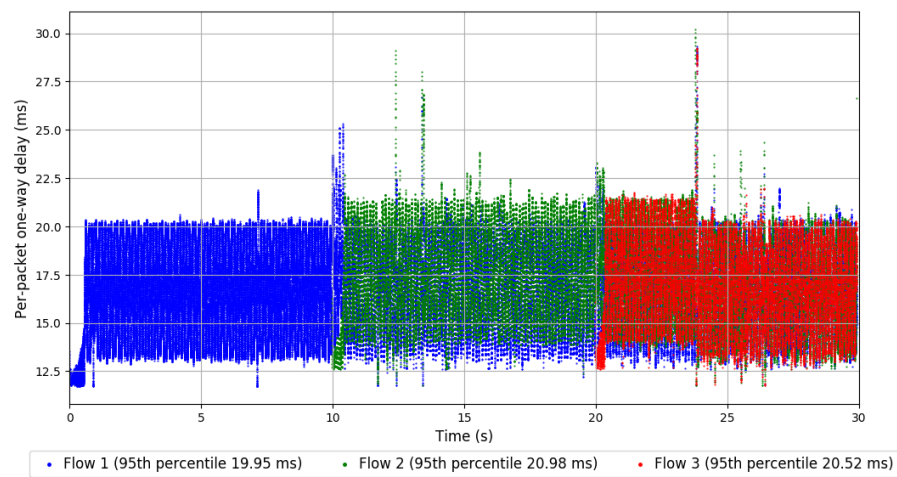
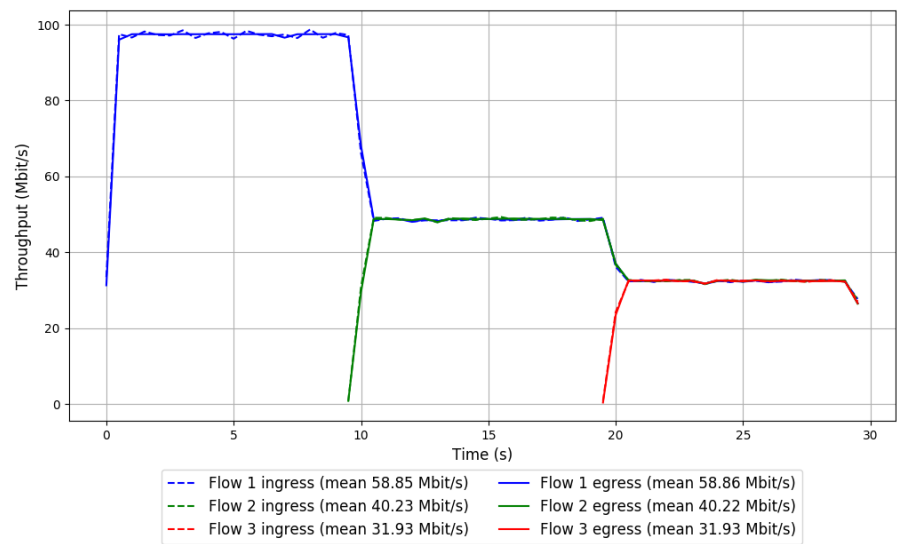
-- Flow 3:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 20.521 ms

Loss rate: 0.25%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 05:51:51 +0000

End at: Tue, 01 Aug 2017 05:52:21 +0000

Local clock offset: -2.062 ms

Remote clock offset: -5.633 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:36:55 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 23.655 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 49.47 Mbit/s

95th percentile per-packet one-way delay: 23.397 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 23.374 ms

Loss rate: 0.16%

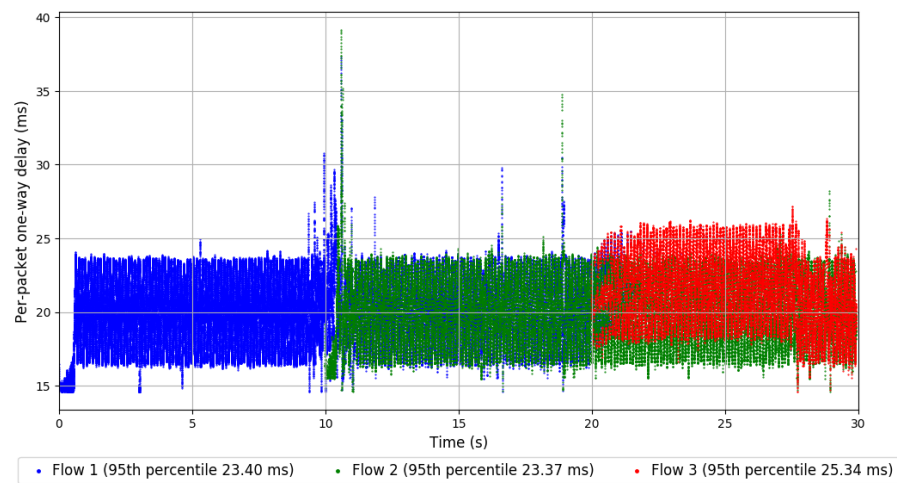
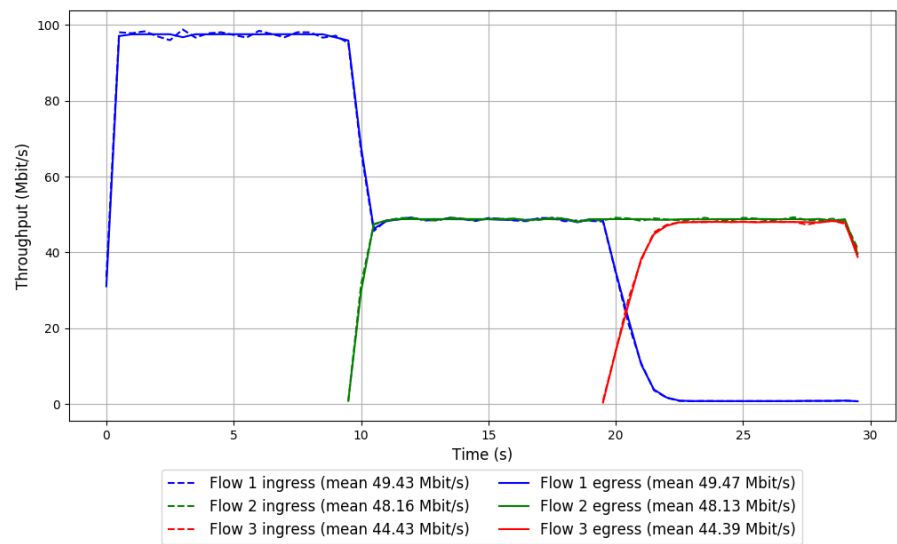
-- Flow 3:

Average throughput: 44.39 Mbit/s

95th percentile per-packet one-way delay: 25.337 ms

Loss rate: 0.35%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 06:10:06 +0000

End at: Tue, 01 Aug 2017 06:10:36 +0000

Local clock offset: -0.089 ms

Remote clock offset: -3.238 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:37:01 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 23.194 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 58.79 Mbit/s

95th percentile per-packet one-way delay: 22.946 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 23.385 ms

Loss rate: 0.12%

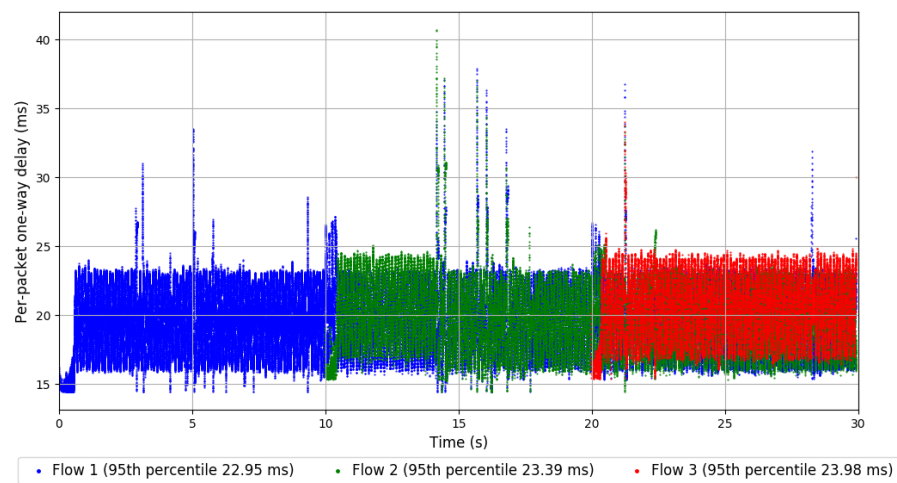
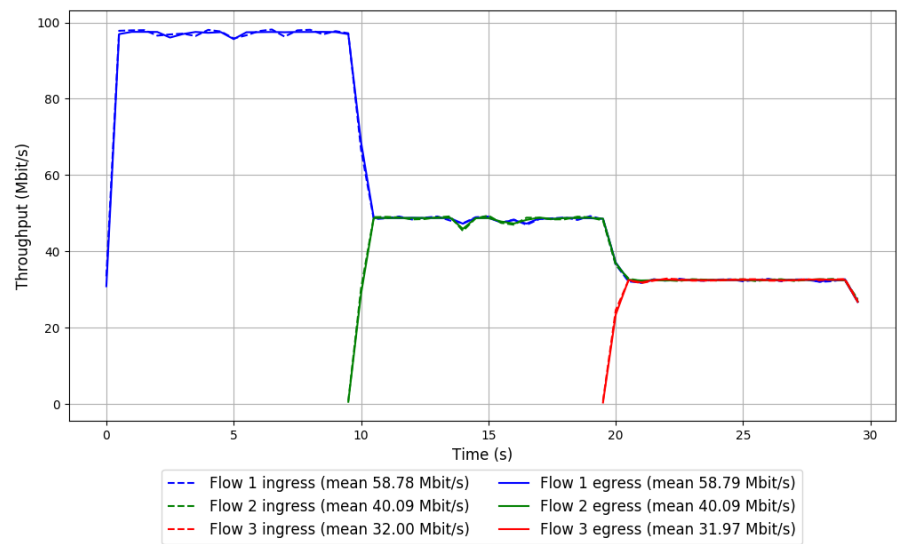
-- Flow 3:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 23.980 ms

Loss rate: 0.28%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 06:27:57 +0000

End at: Tue, 01 Aug 2017 06:28:27 +0000

Local clock offset: -0.488 ms

Remote clock offset: -3.912 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:37:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 31.118 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 31.013 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 31.315 ms

Loss rate: 0.02%

-- Flow 3:

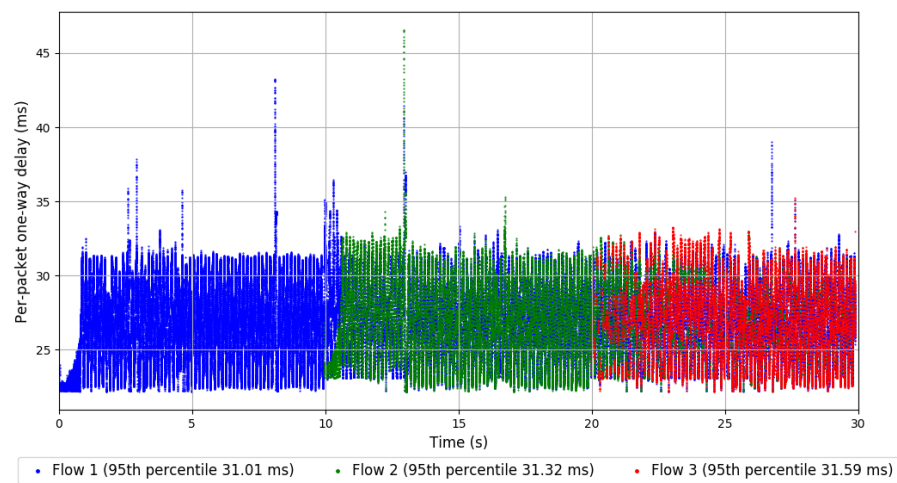
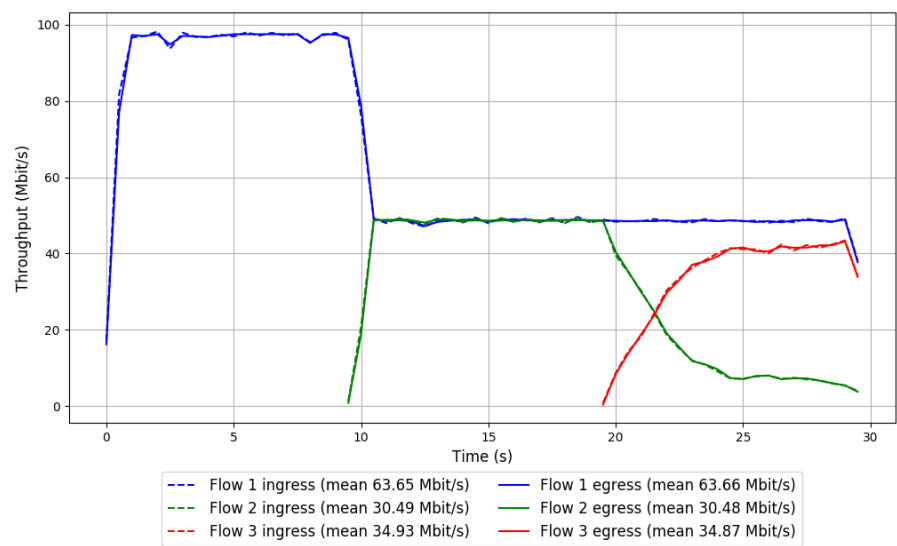
Average throughput: 34.87 Mbit/s

95th percentile per-packet one-way delay: 31.585 ms

Loss rate: 0.40%



Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 06:46:16 +0000

End at: Tue, 01 Aug 2017 06:46:46 +0000

Local clock offset: -0.379 ms

Remote clock offset: -4.267 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:37:14 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 24.853 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 23.646 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 23.706 ms

Loss rate: 0.00%

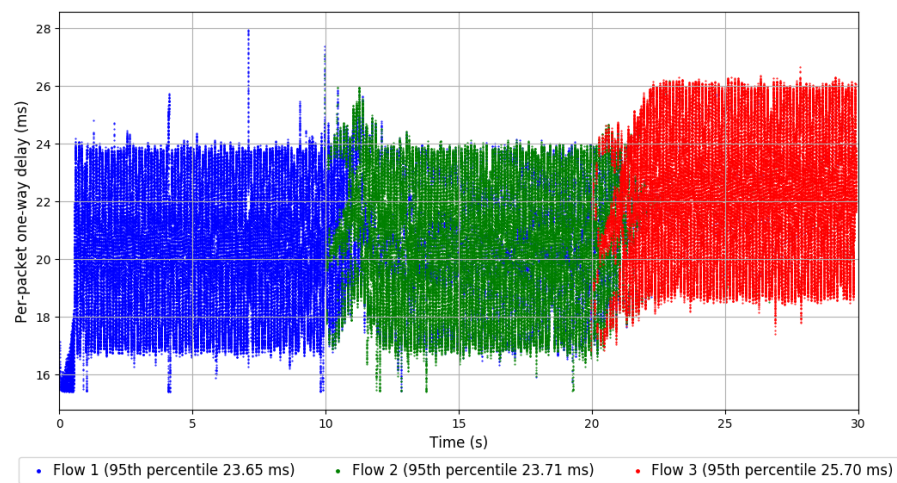
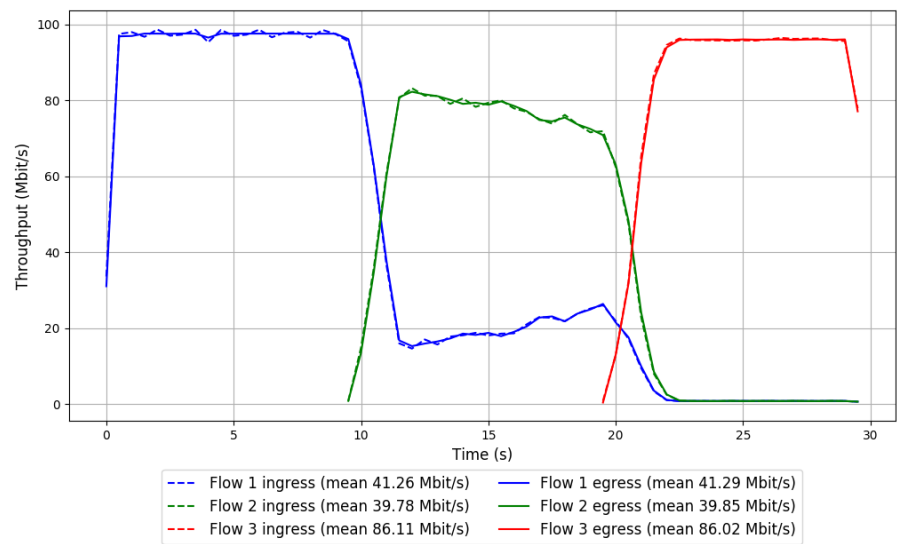
-- Flow 3:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 25.700 ms

Loss rate: 0.31%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 07:04:15 +0000

End at: Tue, 01 Aug 2017 07:04:45 +0000

Local clock offset: -1.572 ms

Remote clock offset: -5.613 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:37:22 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 23.897 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 23.762 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 40.18 Mbit/s

95th percentile per-packet one-way delay: 23.834 ms

Loss rate: 0.12%

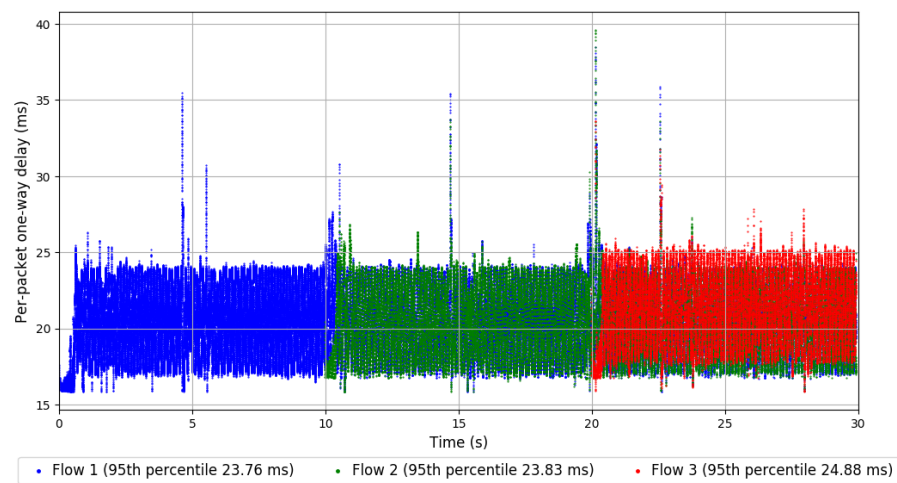
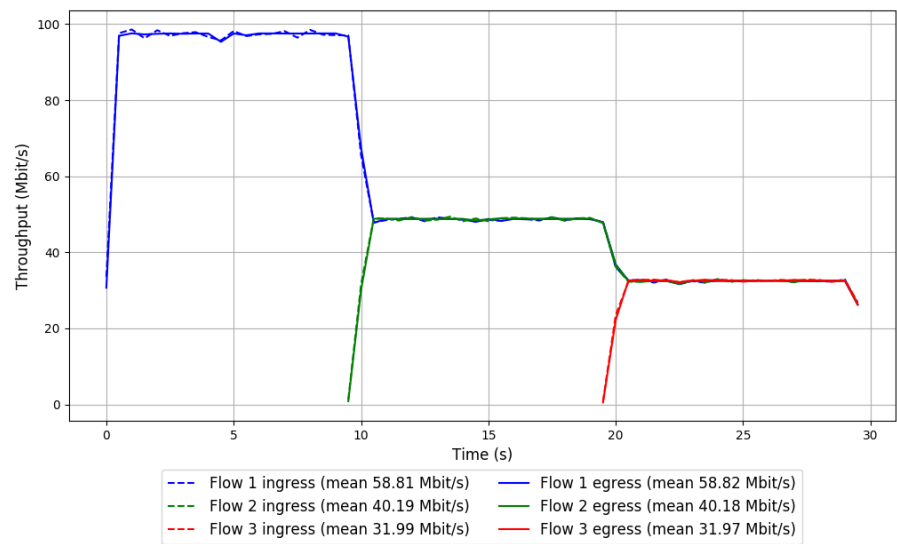
-- Flow 3:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 24.878 ms

Loss rate: 0.30%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 07:22:31 +0000

End at: Tue, 01 Aug 2017 07:23:01 +0000

Local clock offset: -0.267 ms

Remote clock offset: -5.801 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:37:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 25.351 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.83 Mbit/s

95th percentile per-packet one-way delay: 25.335 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 25.373 ms

Loss rate: 0.11%

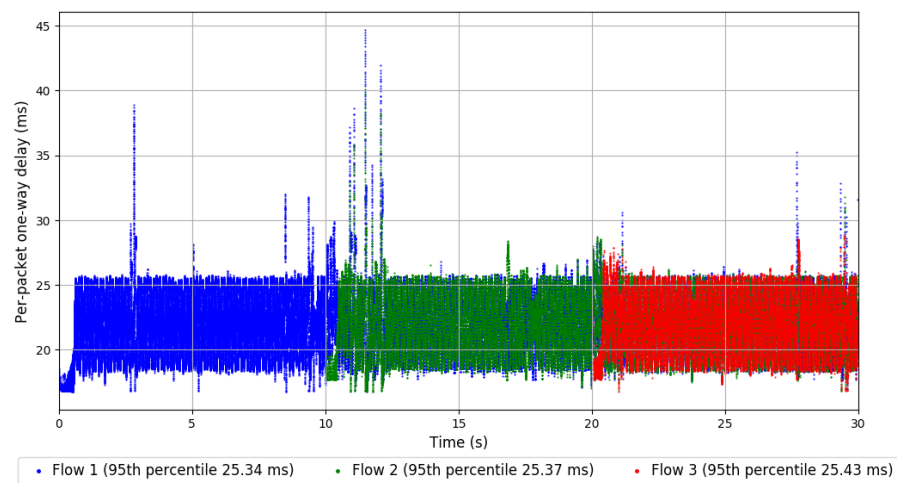
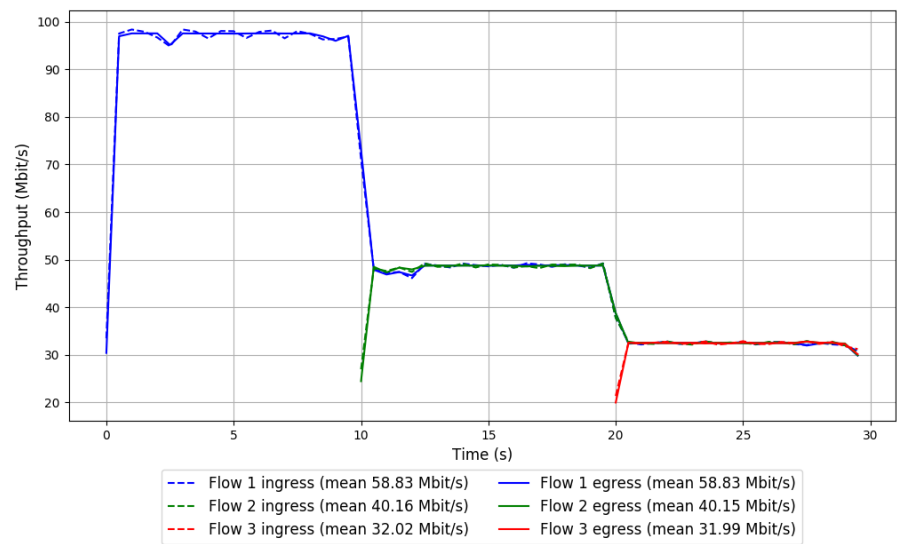
-- Flow 3:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 25.434 ms

Loss rate: 0.32%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 07:40:32 +0000

End at: Tue, 01 Aug 2017 07:41:02 +0000

Local clock offset: 0.13 ms

Remote clock offset: -4.947 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:37:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 23.978 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 23.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.11 Mbit/s

95th percentile per-packet one-way delay: 23.937 ms

Loss rate: 0.16%

-- Flow 3:

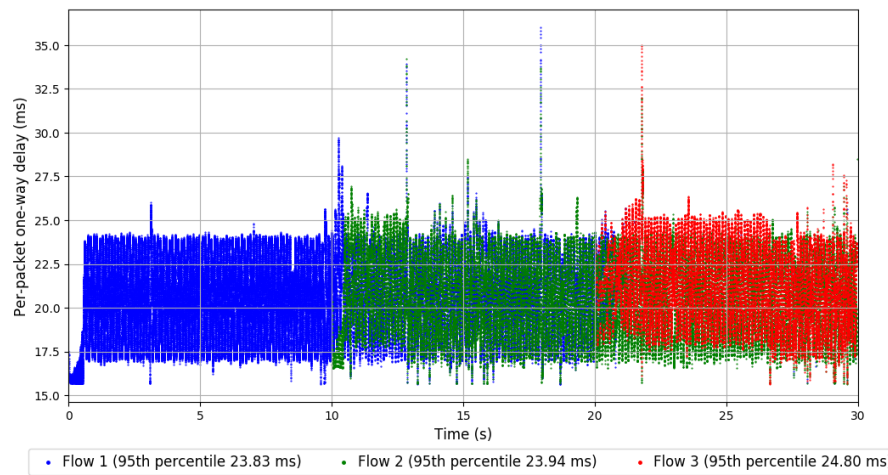
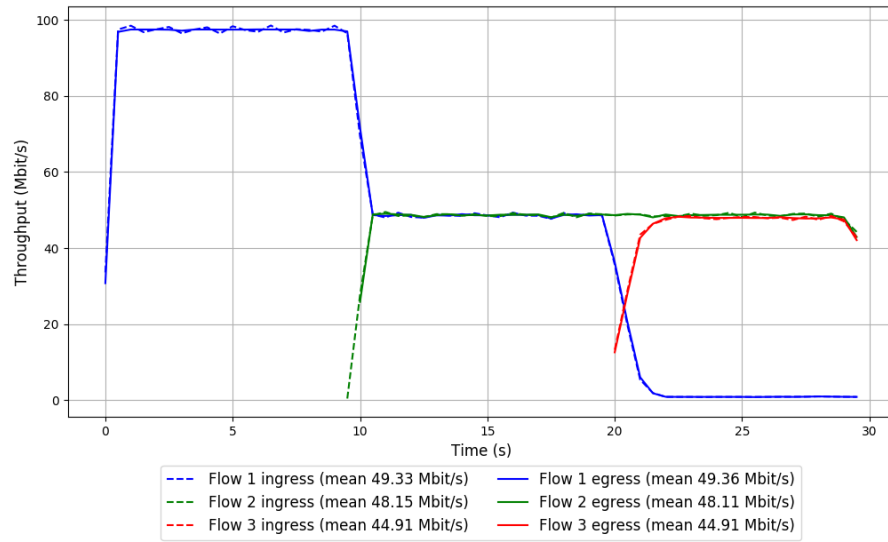
Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 24.803 ms

Loss rate: 0.28%



## Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Tue, 01 Aug 2017 04:54:40 +0000

End at: Tue, 01 Aug 2017 04:55:10 +0000

Local clock offset: 2.701 ms

Remote clock offset: -2.422 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:37:45 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.87 Mbit/s

95th percentile per-packet one-way delay: 16.158 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 15.811 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: 16.208 ms

Loss rate: 0.10%

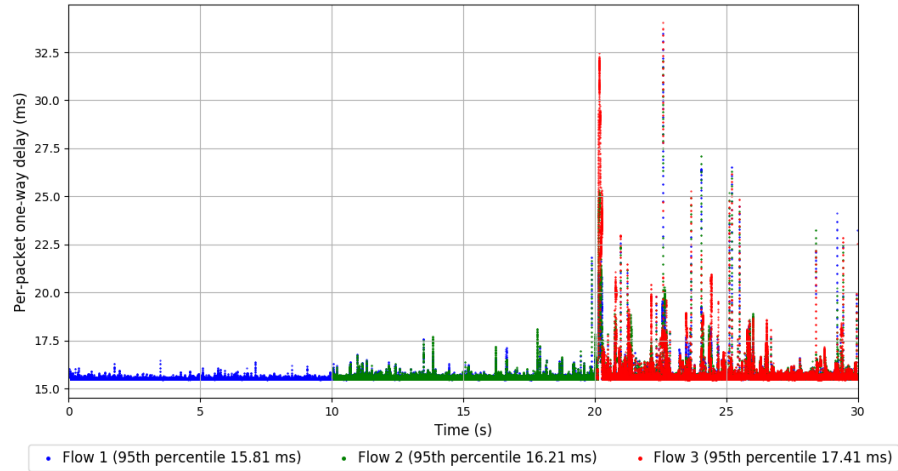
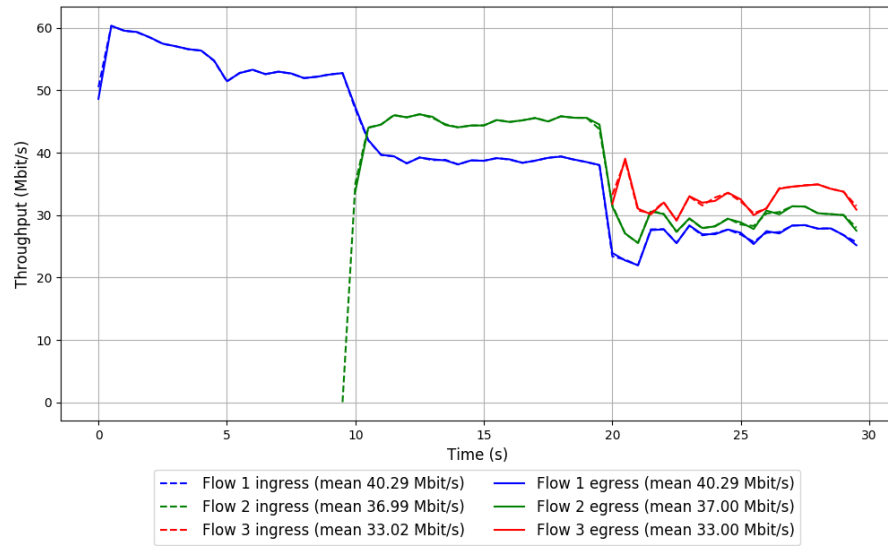
-- Flow 3:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 17.410 ms

Loss rate: 0.26%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Tue, 01 Aug 2017 05:12:44 +0000

End at: Tue, 01 Aug 2017 05:13:14 +0000

Local clock offset: 1.966 ms

Remote clock offset: -3.365 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:37:53 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.48 Mbit/s

95th percentile per-packet one-way delay: 16.507 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 16.215 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 16.603 ms

Loss rate: 0.09%

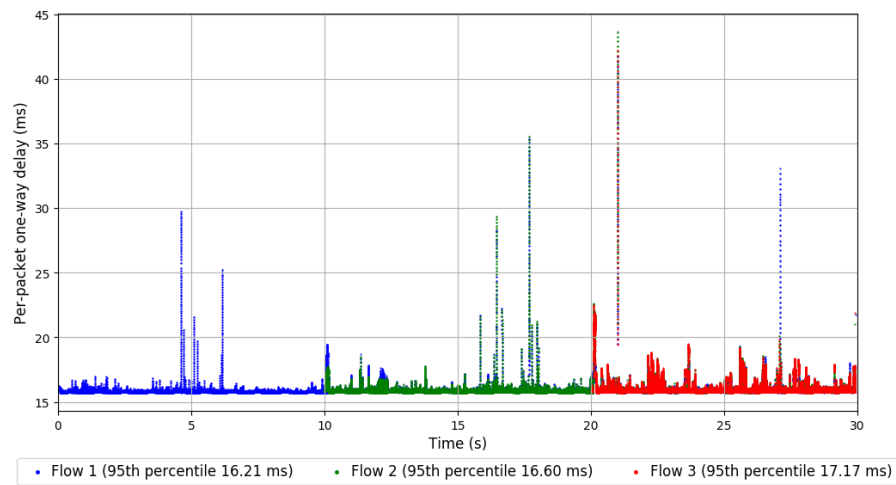
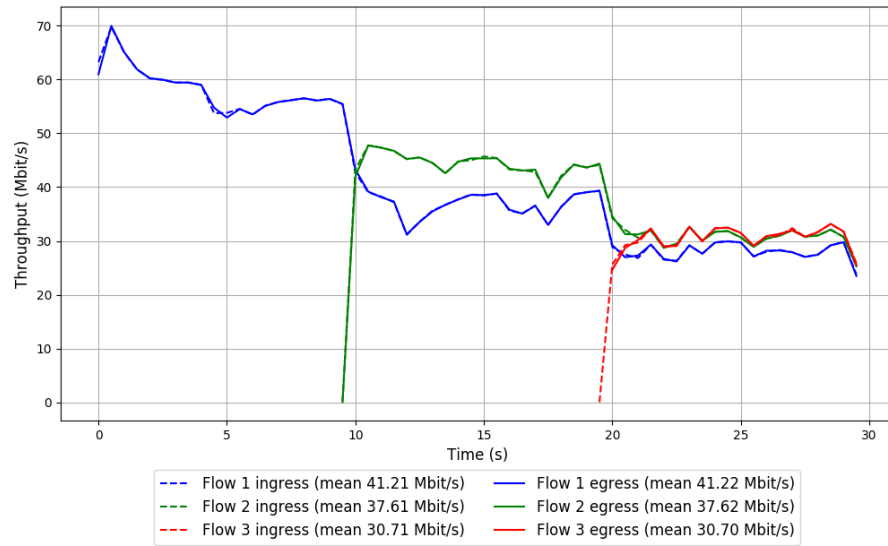
-- Flow 3:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 17.168 ms

Loss rate: 0.23%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Tue, 01 Aug 2017 05:31:12 +0000

End at: Tue, 01 Aug 2017 05:31:42 +0000

Local clock offset: 1.347 ms

Remote clock offset: -1.732 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:38:07 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.04 Mbit/s

95th percentile per-packet one-way delay: 14.247 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 41.92 Mbit/s

95th percentile per-packet one-way delay: 14.027 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 14.320 ms

Loss rate: 0.09%

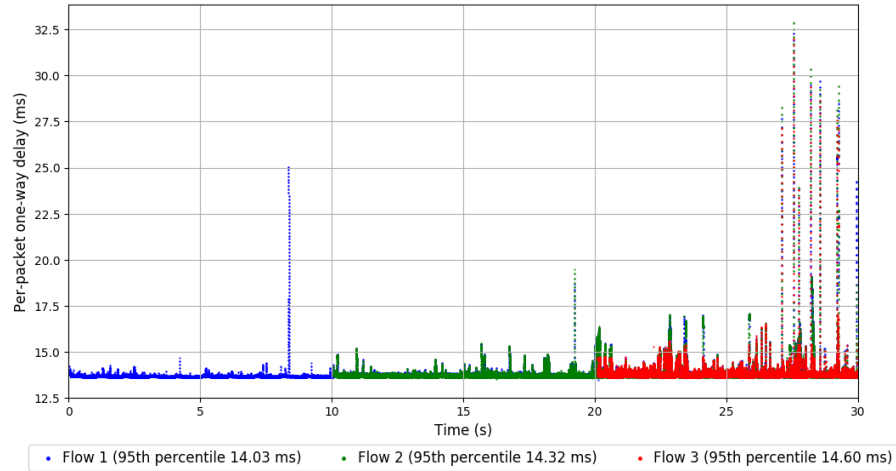
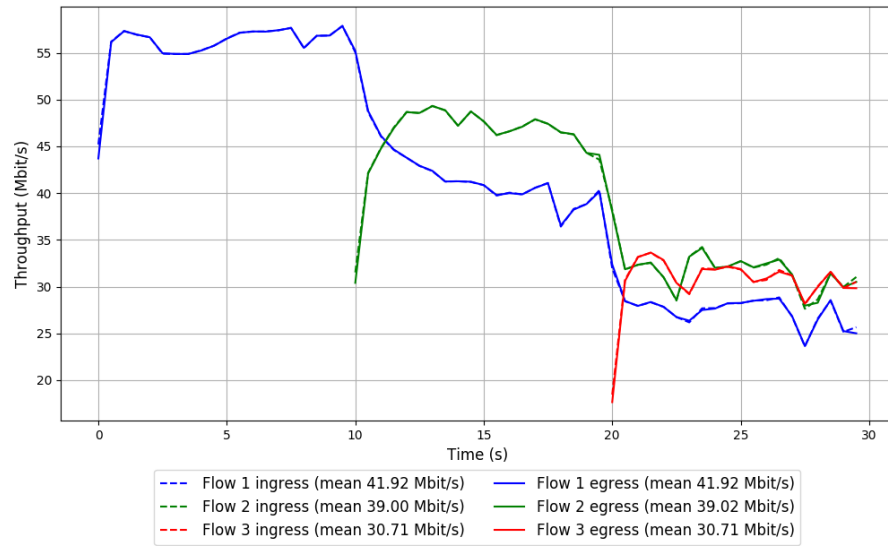
-- Flow 3:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 14.604 ms

Loss rate: 0.26%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Tue, 01 Aug 2017 05:49:27 +0000

End at: Tue, 01 Aug 2017 05:49:57 +0000

Local clock offset: 1.379 ms

Remote clock offset: -6.016 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:38:10 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.23 Mbit/s

95th percentile per-packet one-way delay: 19.057 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 18.844 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 36.20 Mbit/s

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

Loss rate: 0.08%

-- Flow 3:

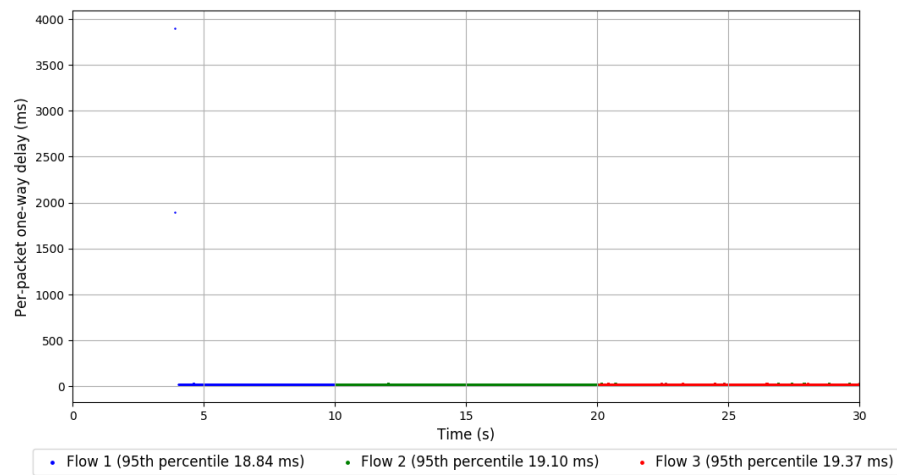
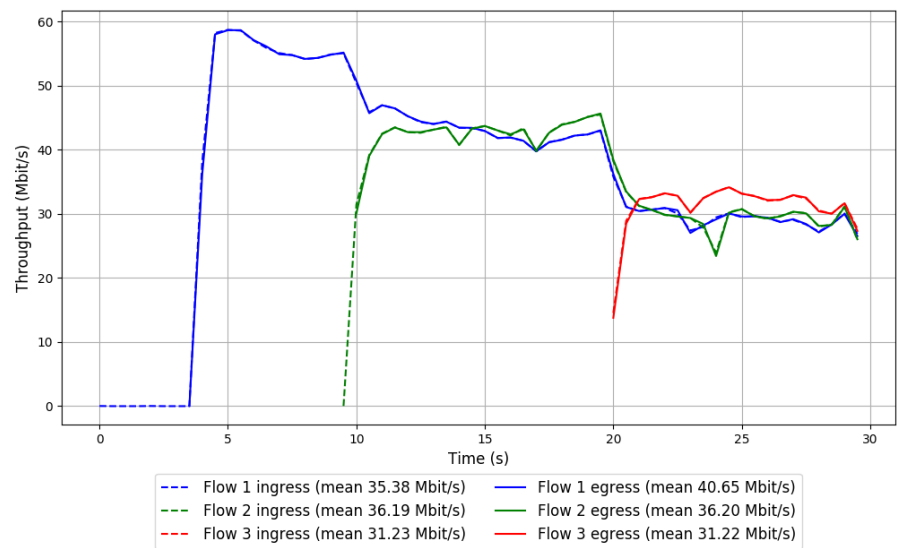
Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 19.366 ms

Loss rate: 0.25%



Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Tue, 01 Aug 2017 06:07:43 +0000

End at: Tue, 01 Aug 2017 06:08:13 +0000

Local clock offset: 0.848 ms

Remote clock offset: -3.209 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:38:23 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 16.047 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 40.94 Mbit/s

95th percentile per-packet one-way delay: 15.780 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 16.119 ms

Loss rate: 0.11%

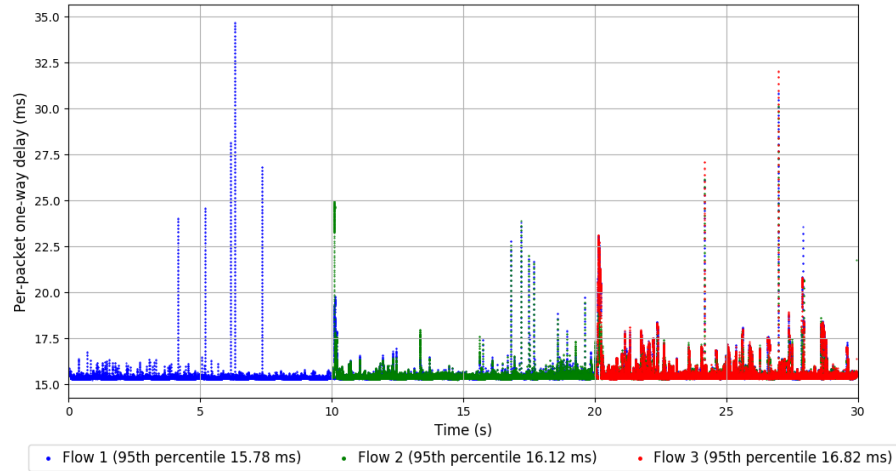
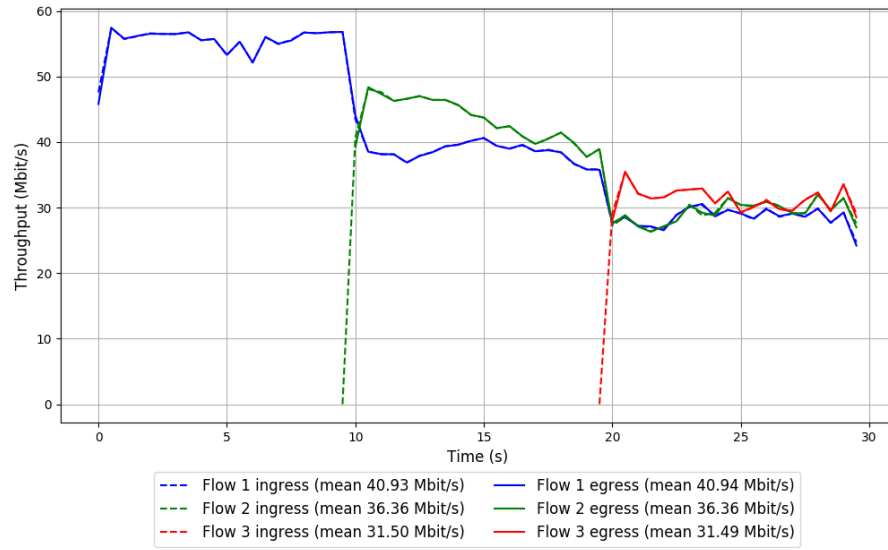
-- Flow 3:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 16.818 ms

Loss rate: 0.26%

# Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: Tue, 01 Aug 2017 06:25:33 +0000

End at: Tue, 01 Aug 2017 06:26:03 +0000

Local clock offset: -0.961 ms

Remote clock offset: -2.741 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:38:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 13.772 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 43.68 Mbit/s

95th percentile per-packet one-way delay: 13.592 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.16 Mbit/s

95th percentile per-packet one-way delay: 13.777 ms

Loss rate: 0.09%

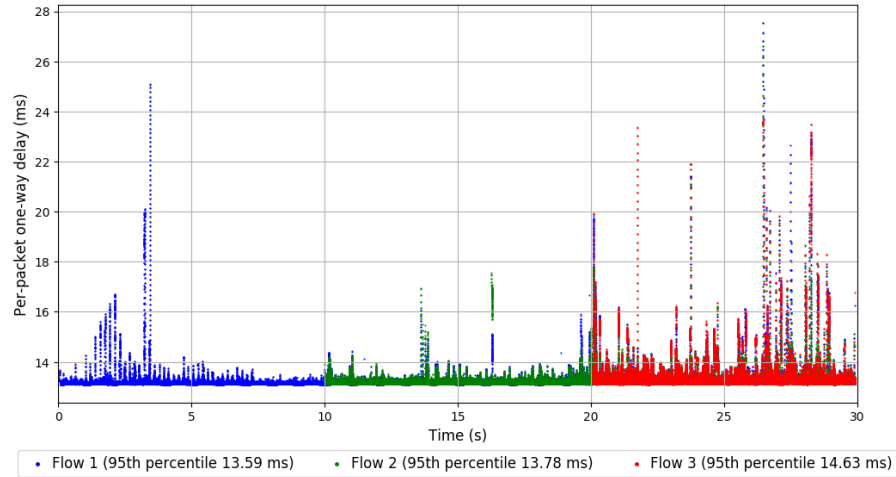
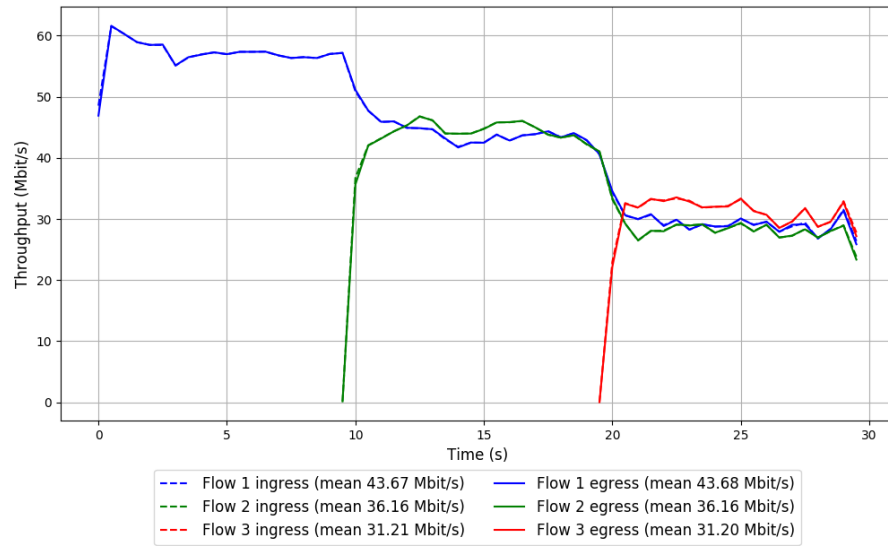
-- Flow 3:

Average throughput: 31.20 Mbit/s

95th percentile per-packet one-way delay: 14.632 ms

Loss rate: 0.26%

## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Tue, 01 Aug 2017 06:43:40 +0000

End at: Tue, 01 Aug 2017 06:44:10 +0000

Local clock offset: -0.655 ms

Remote clock offset: -3.273 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:38:41 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.04 Mbit/s

95th percentile per-packet one-way delay: 22.461 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 40.73 Mbit/s

95th percentile per-packet one-way delay: 22.194 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.77 Mbit/s

95th percentile per-packet one-way delay: 22.523 ms

Loss rate: 0.13%

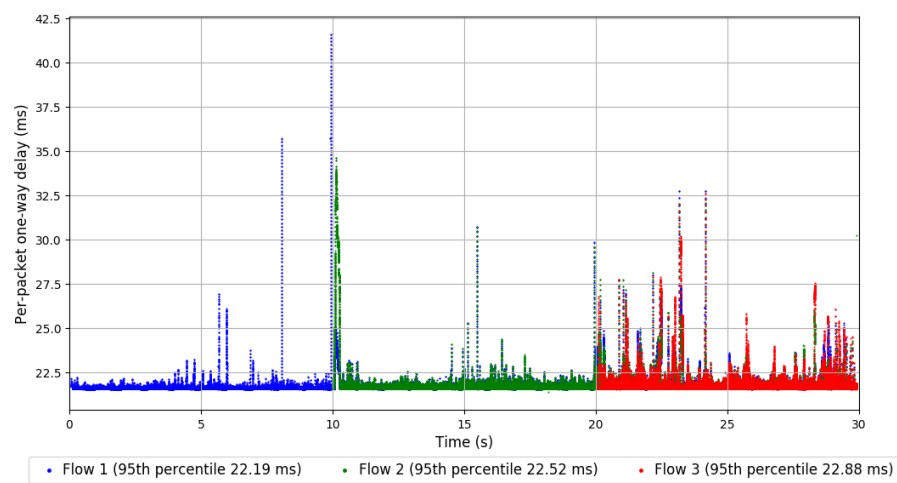
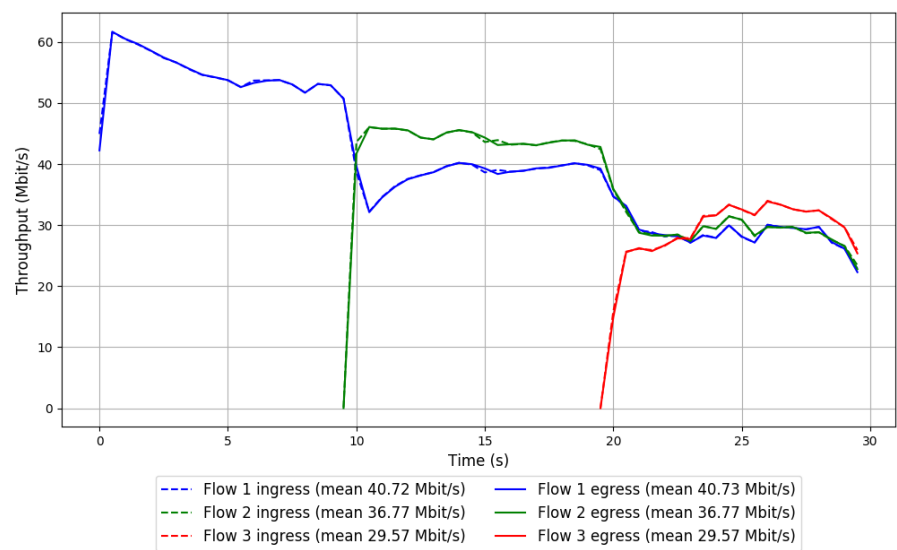
-- Flow 3:

Average throughput: 29.57 Mbit/s

95th percentile per-packet one-way delay: 22.883 ms

Loss rate: 0.33%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: Tue, 01 Aug 2017 07:01:45 +0000

End at: Tue, 01 Aug 2017 07:02:15 +0000

Local clock offset: -3.152 ms

Remote clock offset: -5.716 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:38:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 15.088 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 14.806 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 36.63 Mbit/s

95th percentile per-packet one-way delay: 15.181 ms

Loss rate: 0.12%

-- Flow 3:

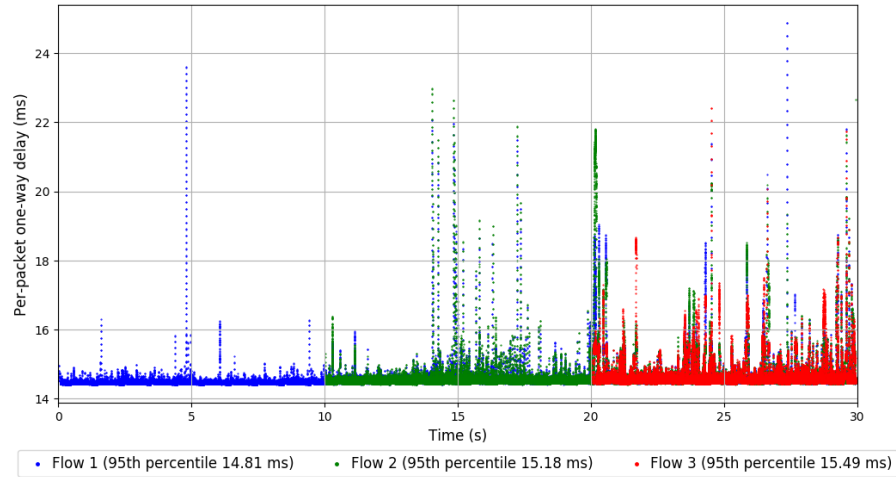
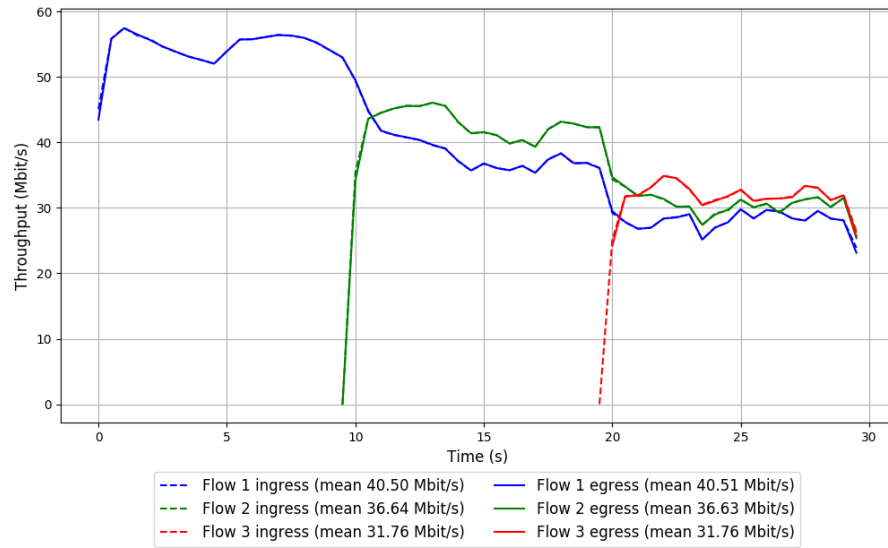
Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 15.494 ms

Loss rate: 0.28%



## Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Tue, 01 Aug 2017 07:20:08 +0000

End at: Tue, 01 Aug 2017 07:20:38 +0000

Local clock offset: -1.521 ms

Remote clock offset: -5.079 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:38:59 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 15.494 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 15.272 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.57 Mbit/s

95th percentile per-packet one-way delay: 15.574 ms

Loss rate: 0.10%

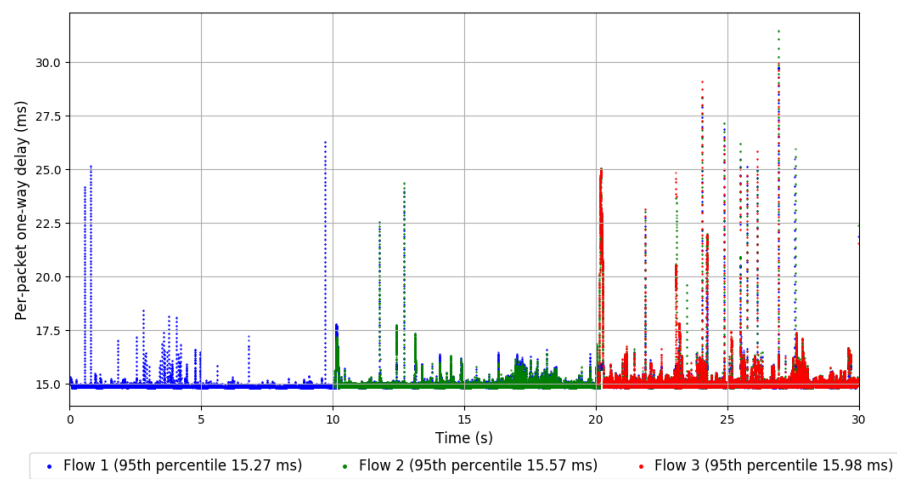
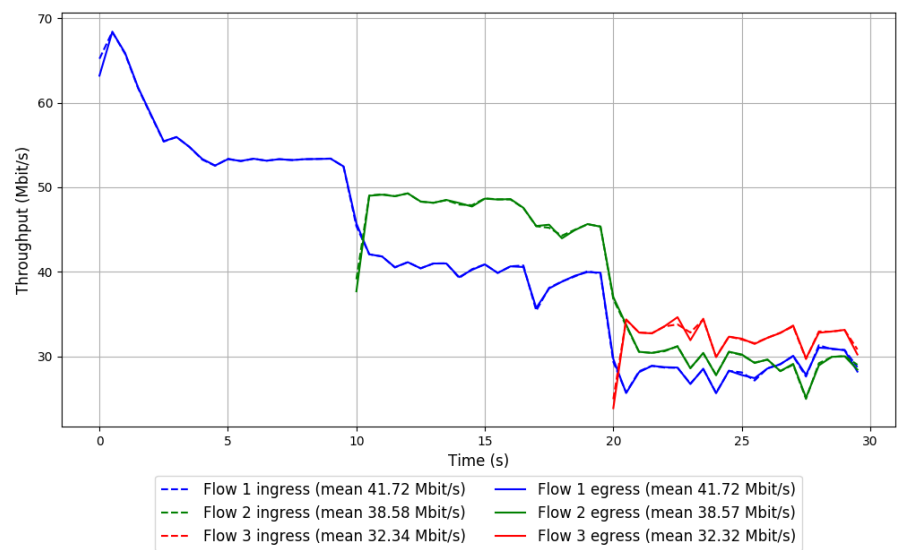
-- Flow 3:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 15.980 ms

Loss rate: 0.25%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Tue, 01 Aug 2017 07:38:08 +0000

End at: Tue, 01 Aug 2017 07:38:38 +0000

Local clock offset: -0.246 ms

Remote clock offset: -5.938 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:39:07 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.61 Mbit/s

95th percentile per-packet one-way delay: 17.121 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 43.05 Mbit/s

95th percentile per-packet one-way delay: 16.879 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: 17.154 ms

Loss rate: 0.10%

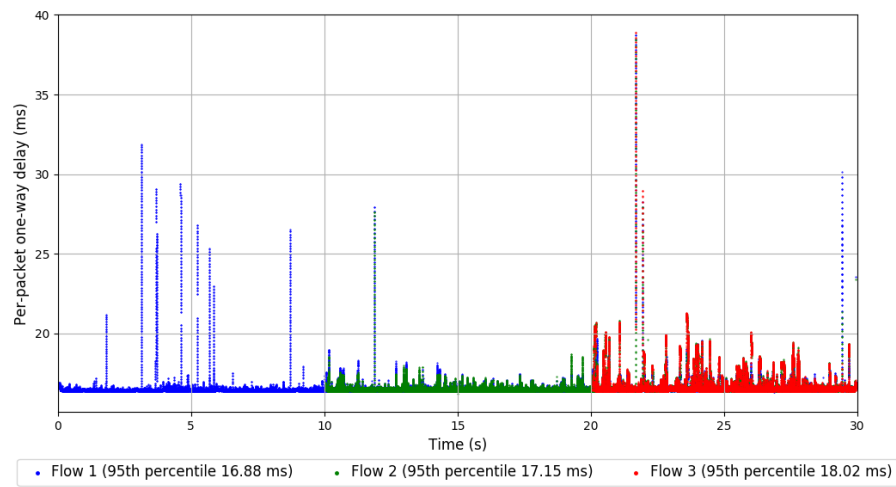
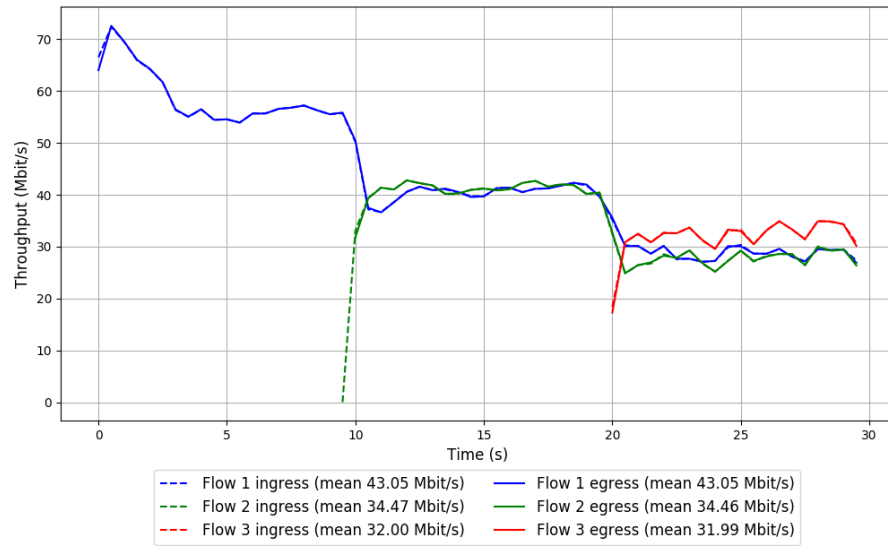
-- Flow 3:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 18.015 ms

Loss rate: 0.26%

# Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 04:59:30 +0000

End at: Tue, 01 Aug 2017 05:00:00 +0000

Local clock offset: -0.139 ms

Remote clock offset: -3.062 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:39:14 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 48.667 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 48.608 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.48 Mbit/s

95th percentile per-packet one-way delay: 48.628 ms

Loss rate: 0.24%

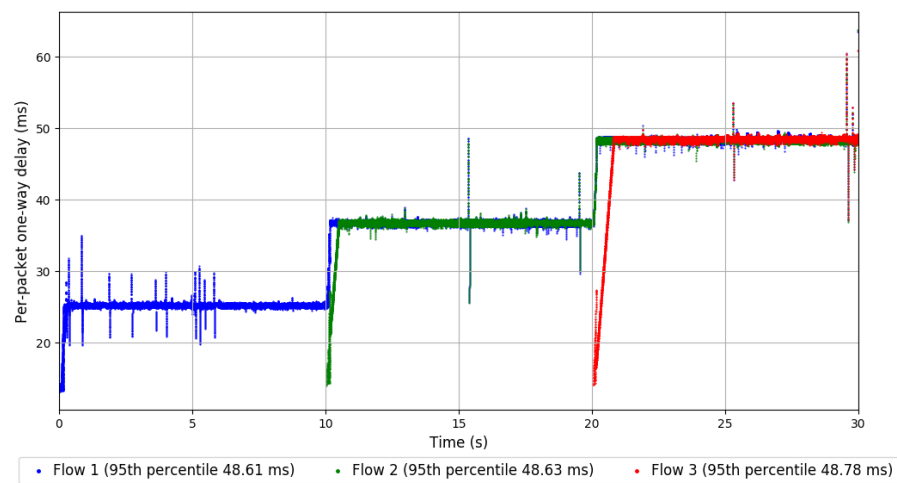
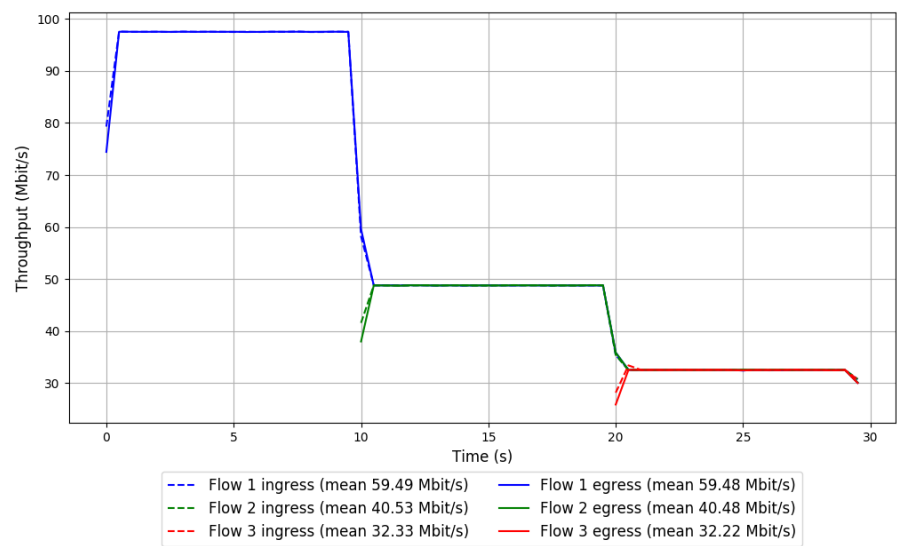
-- Flow 3:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 48.779 ms

Loss rate: 0.59%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 05:17:32 +0000

End at: Tue, 01 Aug 2017 05:18:02 +0000

Local clock offset: -0.201 ms

Remote clock offset: -3.13 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:39:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 48.783 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 59.45 Mbit/s

95th percentile per-packet one-way delay: 48.700 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 48.826 ms

Loss rate: 0.97%

-- Flow 3:

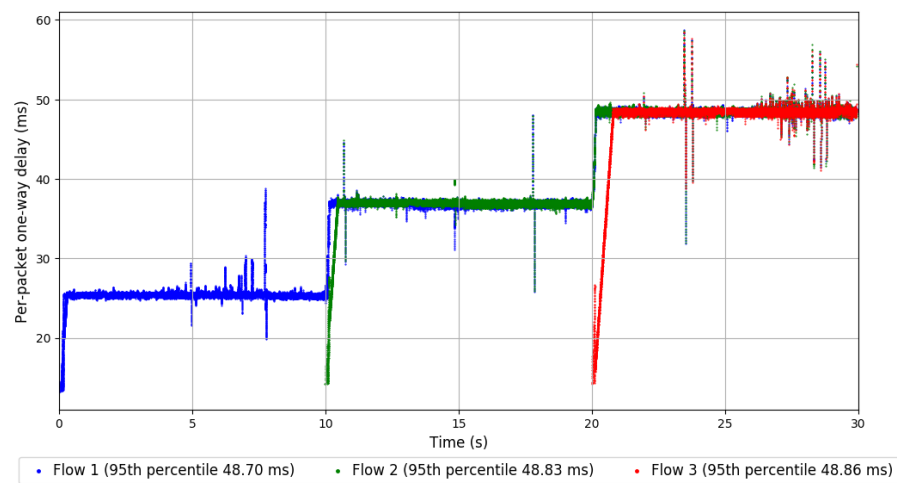
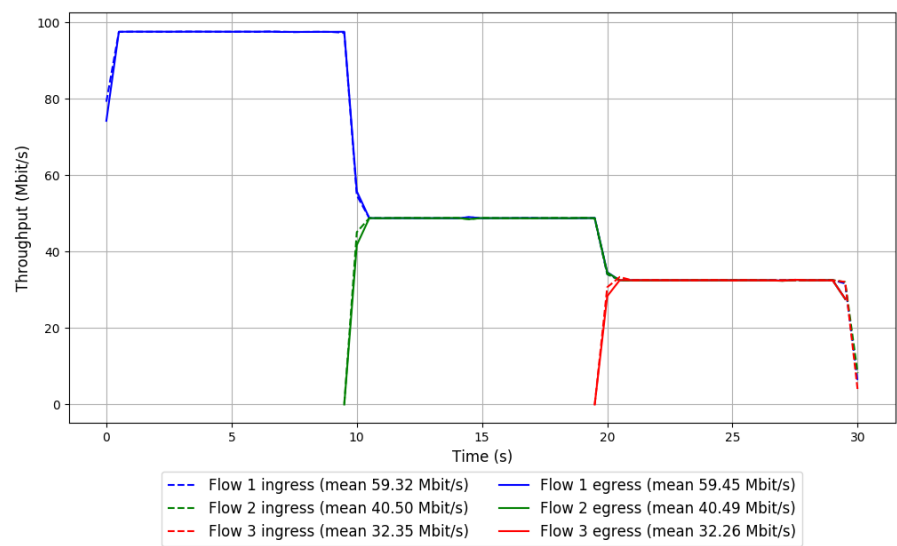
Average throughput: 32.26 Mbit/s

95th percentile per-packet one-way delay: 48.864 ms

Loss rate: 1.74%



Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 05:35:57 +0000

End at: Tue, 01 Aug 2017 05:36:27 +0000

Local clock offset: 0.246 ms

Remote clock offset: -5.778 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:39:27 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 63.250 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 63.210 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 48.39 Mbit/s

95th percentile per-packet one-way delay: 47.920 ms

Loss rate: 0.24%

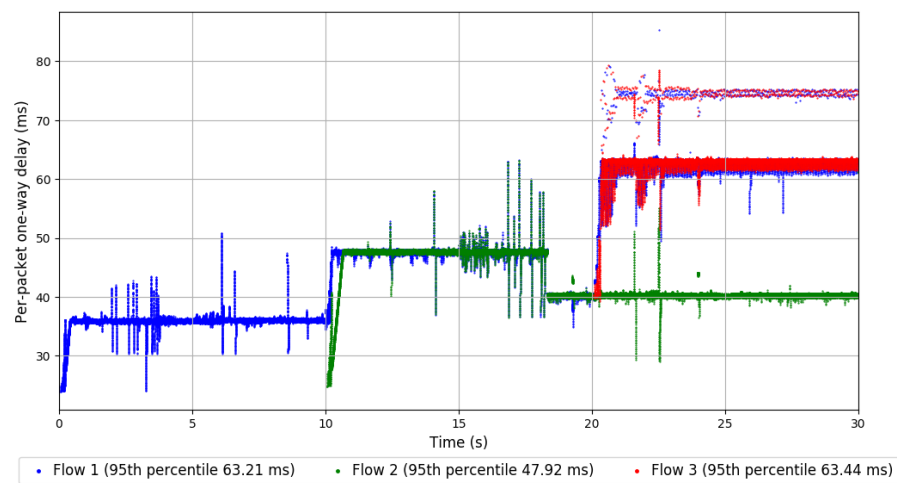
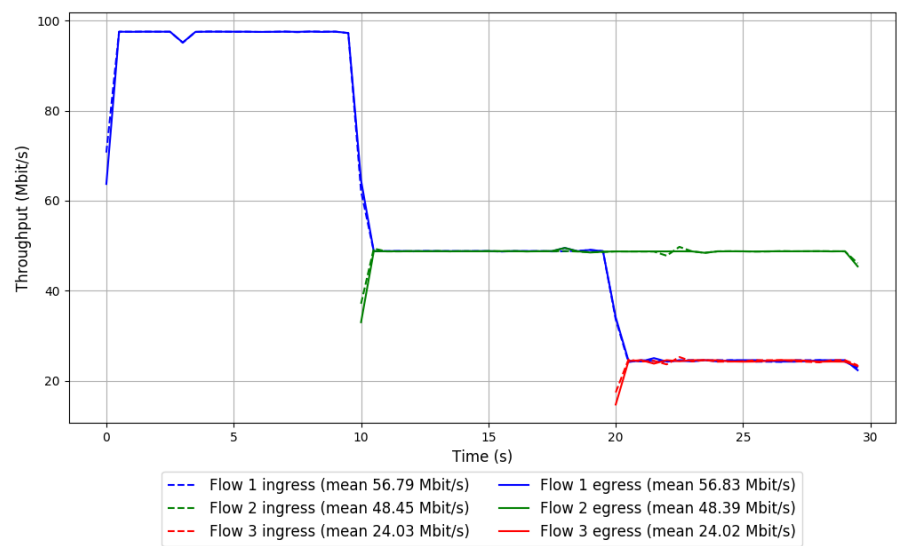
-- Flow 3:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 63.436 ms

Loss rate: 0.74%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 05:54:14 +0000

End at: Tue, 01 Aug 2017 05:54:44 +0000

Local clock offset: -0.457 ms

Remote clock offset: -5.082 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:39:33 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 51.075 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.49 Mbit/s

95th percentile per-packet one-way delay: 50.981 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.48 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.24%

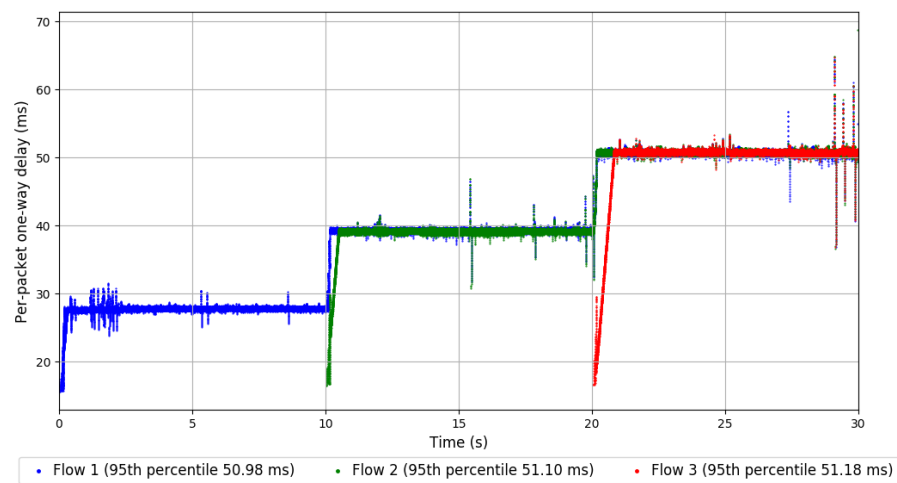
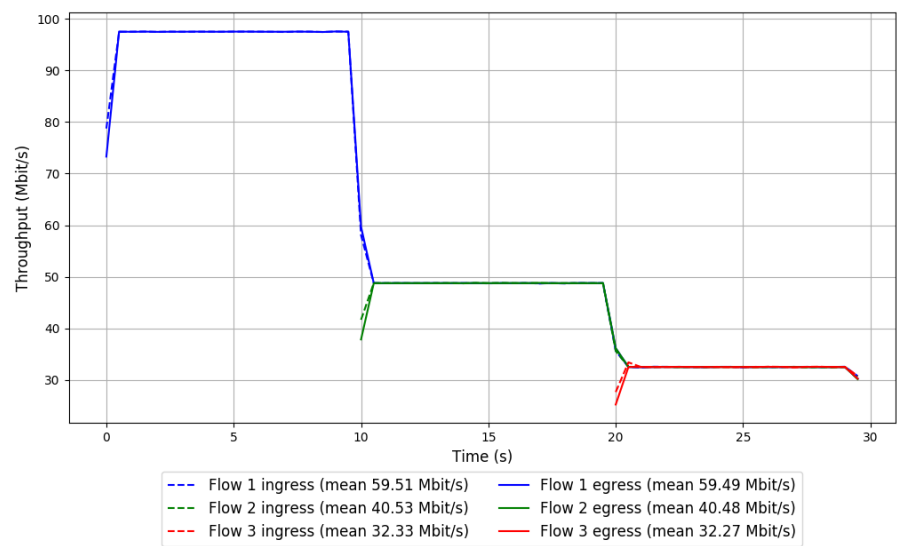
-- Flow 3:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 51.176 ms

Loss rate: 0.60%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 06:12:27 +0000

End at: Tue, 01 Aug 2017 06:12:57 +0000

Local clock offset: 0.005 ms

Remote clock offset: -3.746 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:39:40 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 50.420 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 62.10 Mbit/s

95th percentile per-packet one-way delay: 50.173 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 44.53 Mbit/s

95th percentile per-packet one-way delay: 50.466 ms

Loss rate: 0.21%

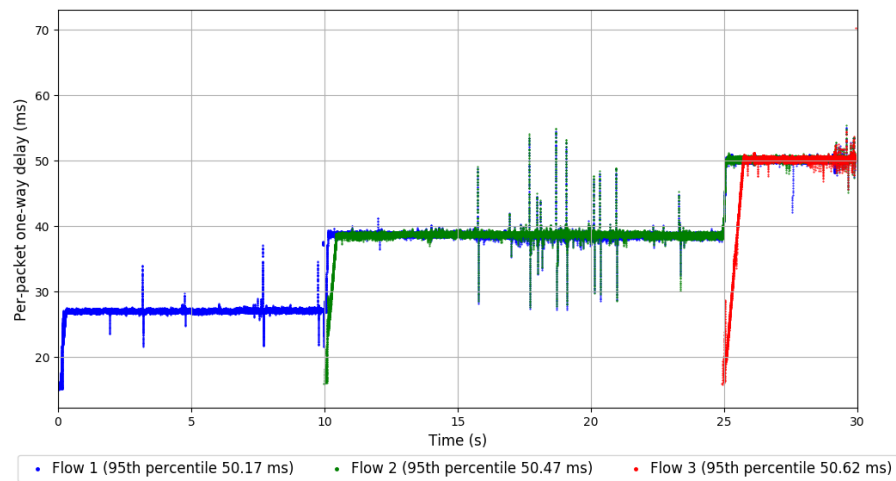
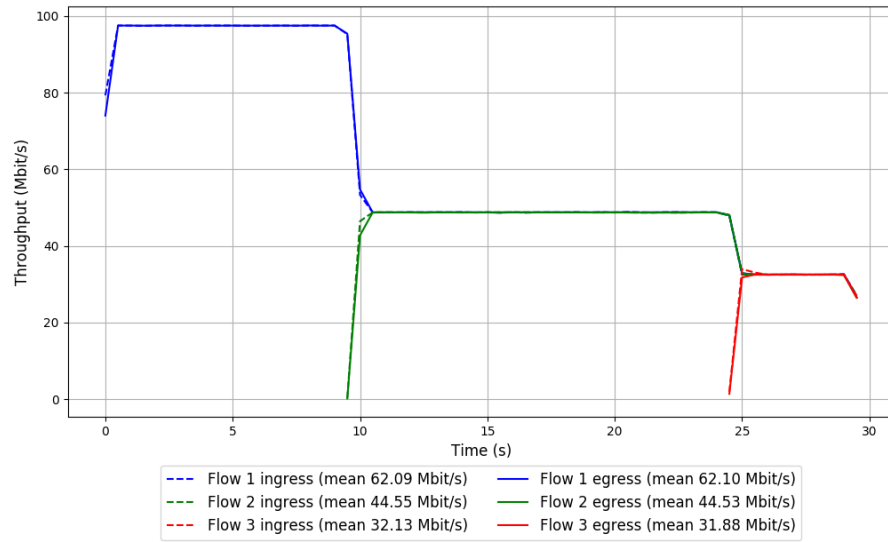
-- Flow 3:

Average throughput: 31.88 Mbit/s

95th percentile per-packet one-way delay: 50.615 ms

Loss rate: 1.19%

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



Run 6: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 06:30:19 +0000

End at: Tue, 01 Aug 2017 06:30:49 +0000

Local clock offset: 0.576 ms

Remote clock offset: -3.966 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:39:47 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 52.512 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 52.424 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 52.535 ms

Loss rate: 0.24%

-- Flow 3:

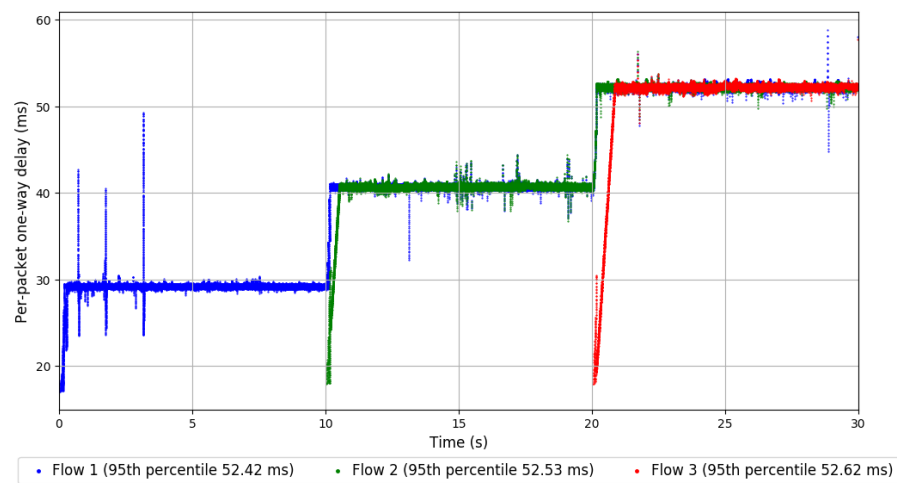
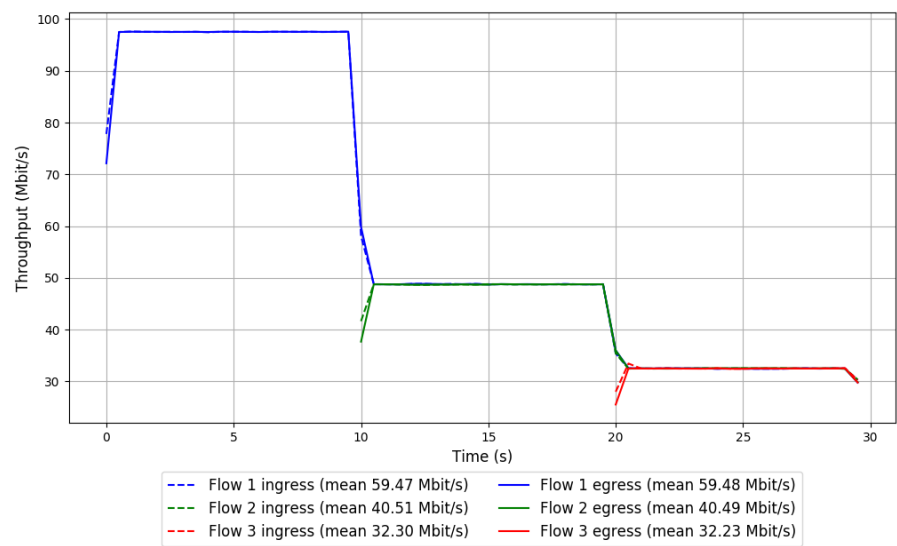
Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 52.617 ms

Loss rate: 0.61%



Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 06:48:37 +0000

End at: Tue, 01 Aug 2017 06:49:07 +0000

Local clock offset: -0.444 ms

Remote clock offset: -2.878 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:39:53 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 48.121 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 47.324 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 48.684 ms

Loss rate: 0.24%

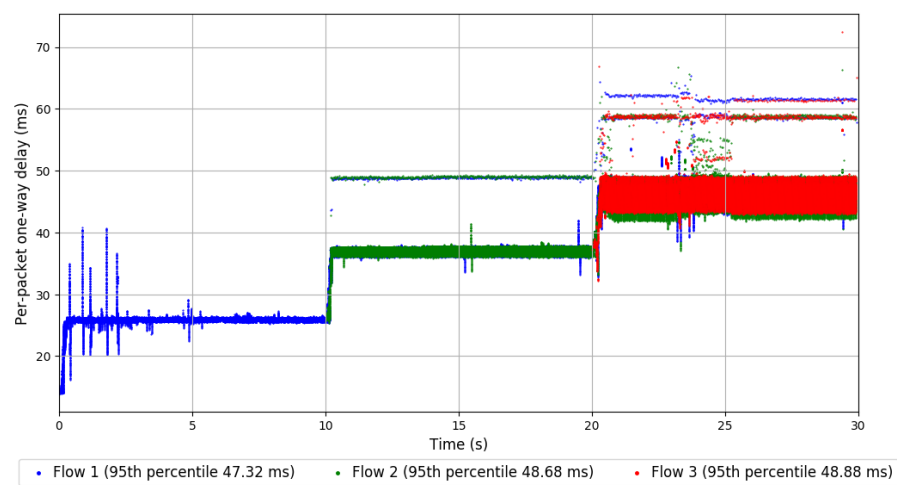
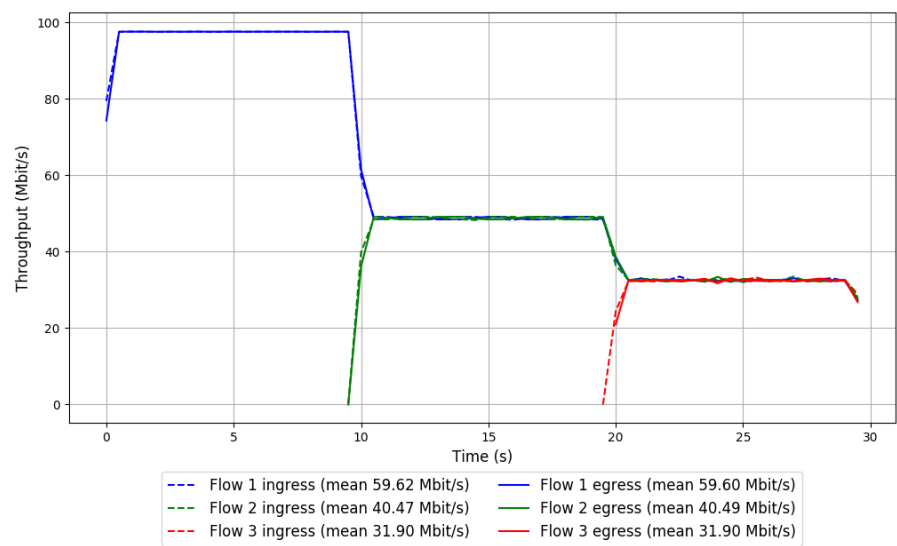
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 48.875 ms

Loss rate: 0.70%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 07:06:36 +0000

End at: Tue, 01 Aug 2017 07:07:06 +0000

Local clock offset: -0.707 ms

Remote clock offset: -5.422 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:00 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 63.068 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 64.79 Mbit/s

95th percentile per-packet one-way delay: 40.311 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 63.170 ms

Loss rate: 0.23%

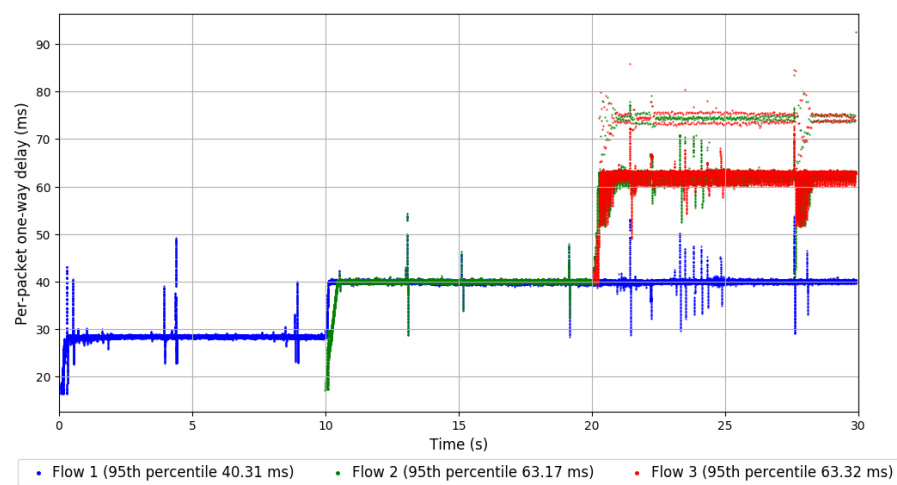
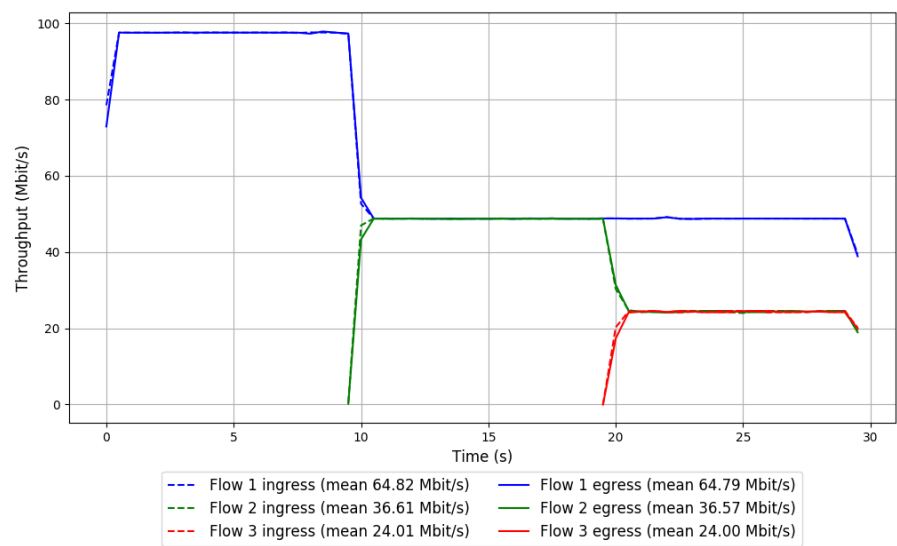
-- Flow 3:

Average throughput: 24.00 Mbit/s

95th percentile per-packet one-way delay: 63.318 ms

Loss rate: 0.70%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 07:24:53 +0000

End at: Tue, 01 Aug 2017 07:25:23 +0000

Local clock offset: -2.14 ms

Remote clock offset: -5.406 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:05 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 60.840 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 60.338 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 38.351 ms

Loss rate: 0.24%

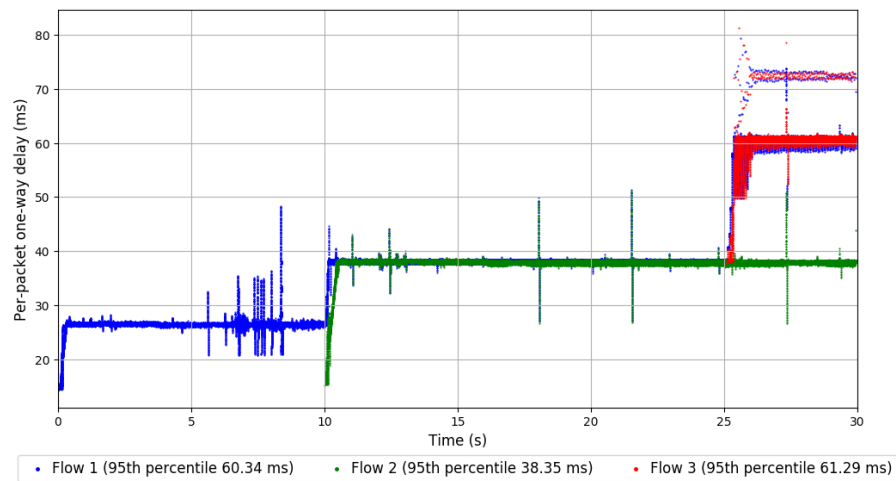
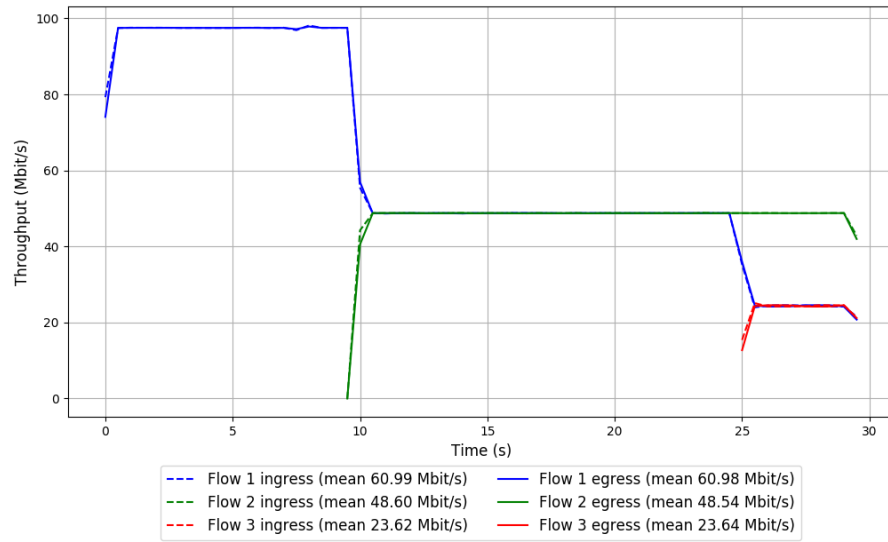
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 61.294 ms

Loss rate: 1.48%

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



Run 10: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 07:42:52 +0000

End at: Tue, 01 Aug 2017 07:43:22 +0000

Local clock offset: -2.057 ms

Remote clock offset: -5.941 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:12 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 61.001 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 56.89 Mbit/s

95th percentile per-packet one-way delay: 60.947 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 38.376 ms

Loss rate: 0.23%

-- Flow 3:

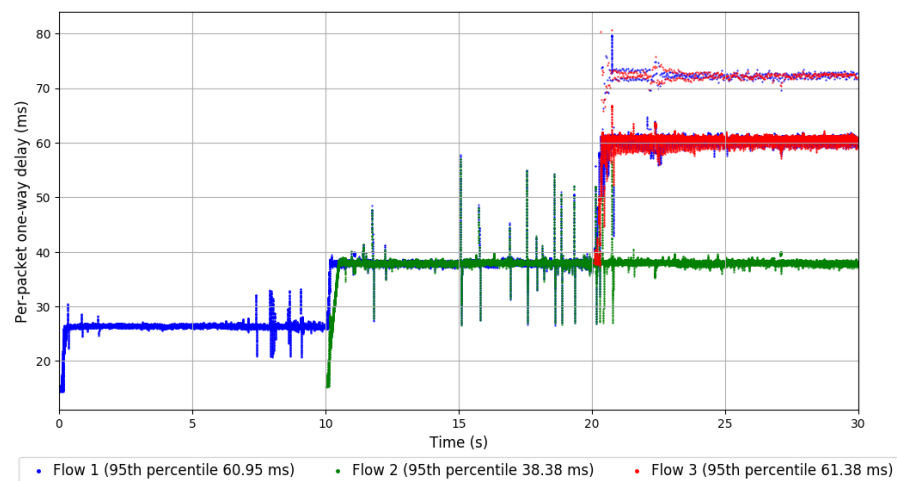
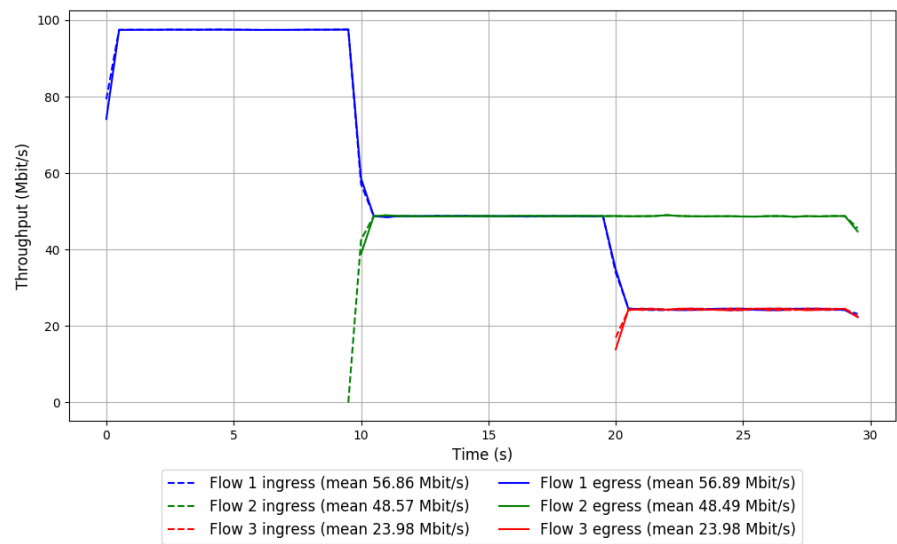
Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 61.378 ms

Loss rate: 0.70%



Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 04:45:34 +0000

End at: Tue, 01 Aug 2017 04:46:04 +0000

Local clock offset: 0.041 ms

Remote clock offset: -2.788 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:17 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.75 Mbit/s

95th percentile per-packet one-way delay: 21.827 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 20.849 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 23.311 ms

Loss rate: 0.10%

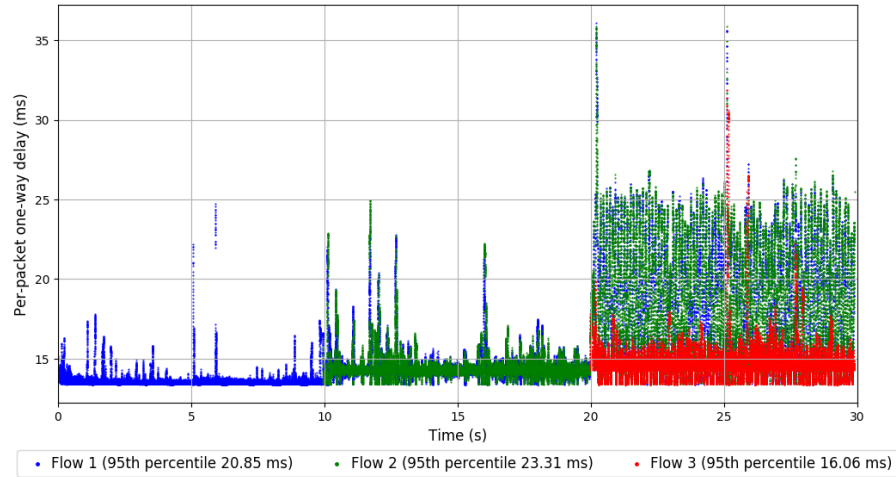
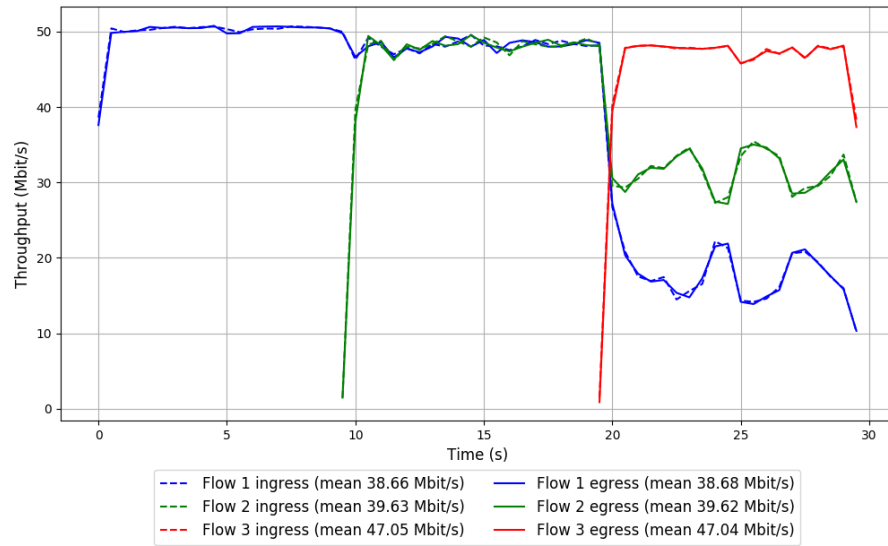
-- Flow 3:

Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 16.061 ms

Loss rate: 0.25%

# Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 05:04:20 +0000

End at: Tue, 01 Aug 2017 05:04:50 +0000

Local clock offset: -1.025 ms

Remote clock offset: -3.5 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:25 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.87 Mbit/s

95th percentile per-packet one-way delay: 21.352 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 20.688 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: 22.752 ms

Loss rate: 0.11%

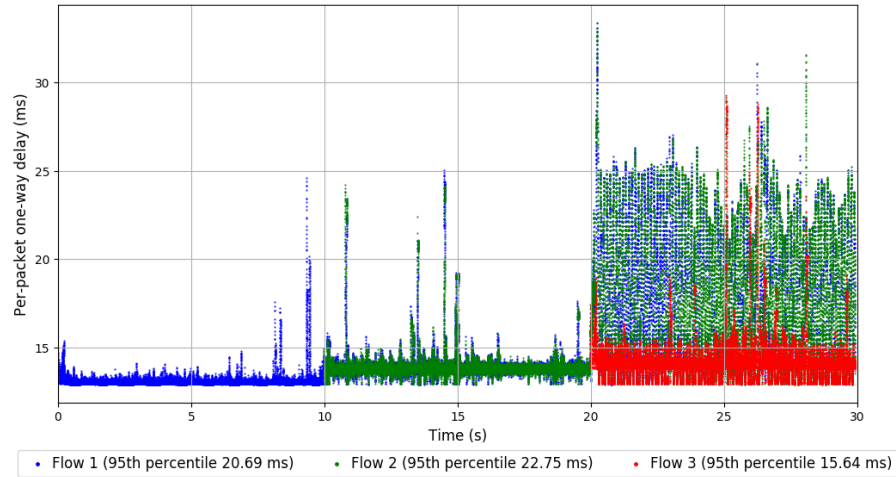
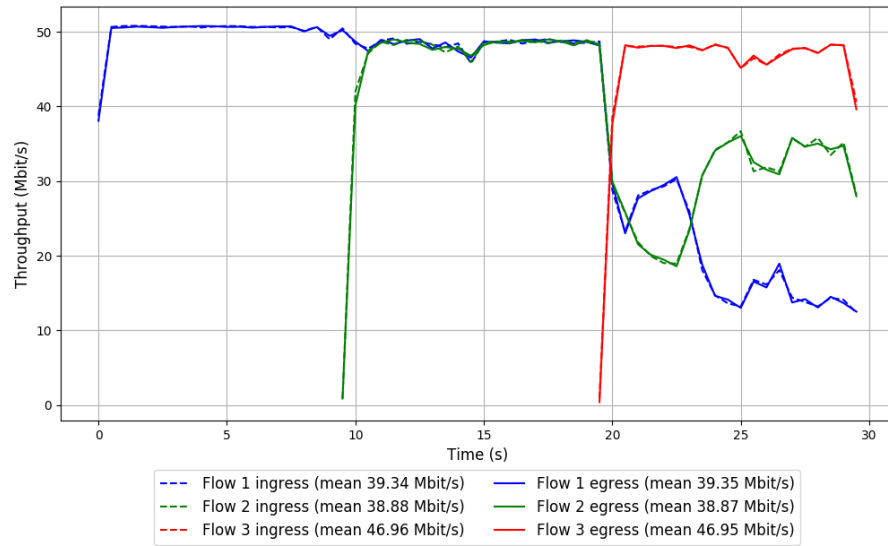
-- Flow 3:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 15.644 ms

Loss rate: 0.25%

## Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 05:22:32 +0000

End at: Tue, 01 Aug 2017 05:23:02 +0000

Local clock offset: 0.339 ms

Remote clock offset: -4.301 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.84 Mbit/s

95th percentile per-packet one-way delay: 23.362 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 22.912 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 47.89 Mbit/s

95th percentile per-packet one-way delay: 17.493 ms

Loss rate: 0.12%

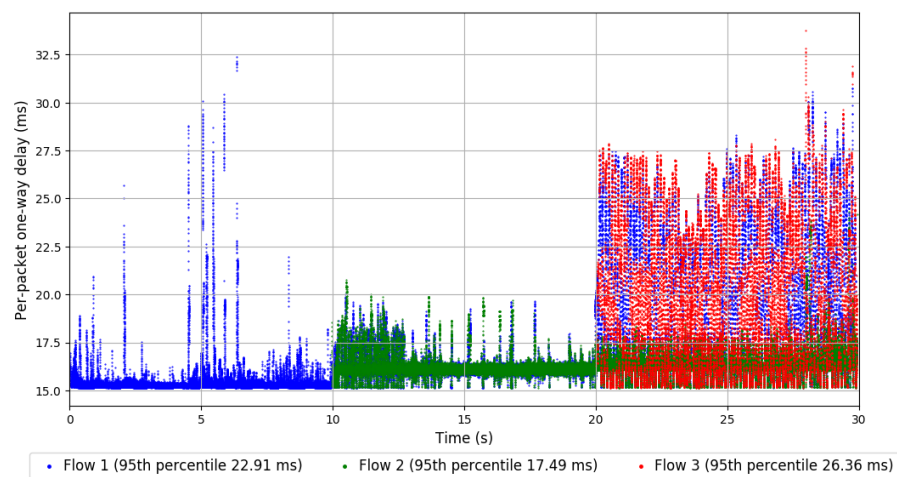
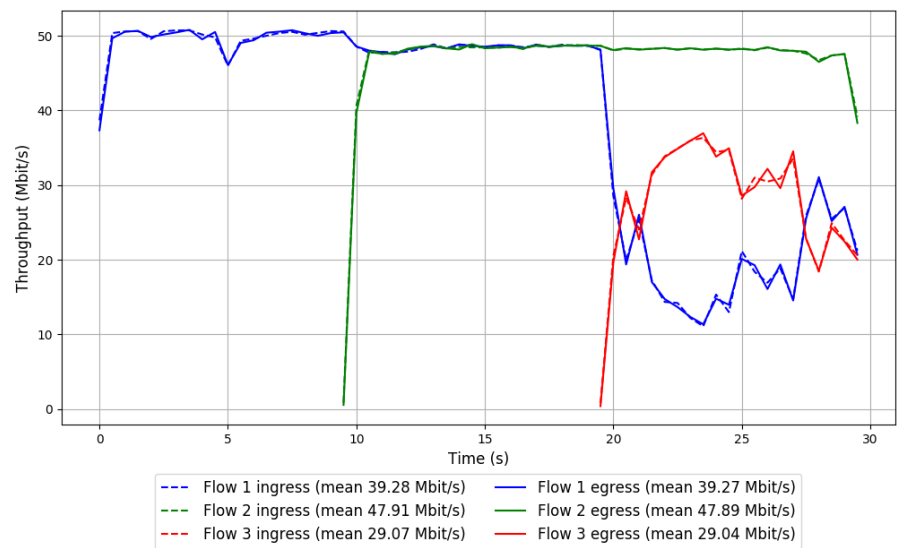
-- Flow 3:

Average throughput: 29.04 Mbit/s

95th percentile per-packet one-way delay: 26.363 ms

Loss rate: 0.35%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 05:40:44 +0000

End at: Tue, 01 Aug 2017 05:41:14 +0000

Local clock offset: -0.476 ms

Remote clock offset: -5.948 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.55 Mbit/s

95th percentile per-packet one-way delay: 26.185 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 25.068 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 26.071 ms

Loss rate: 0.11%

-- Flow 3:

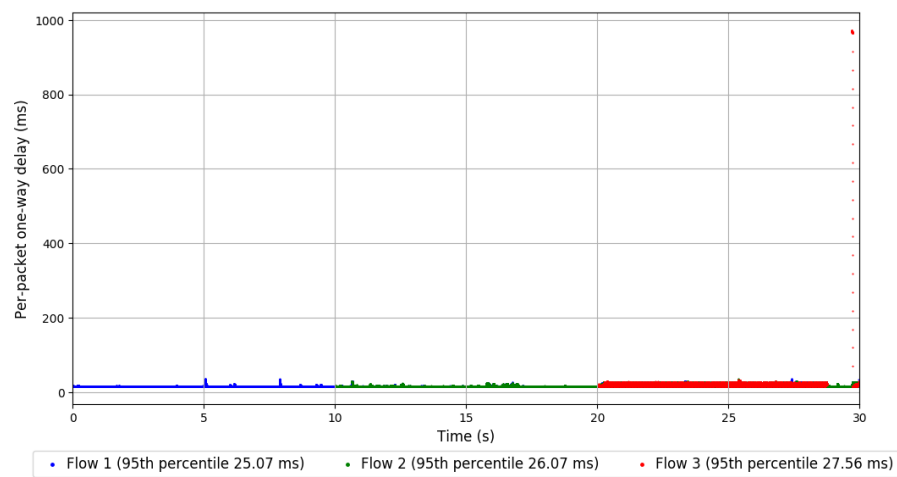
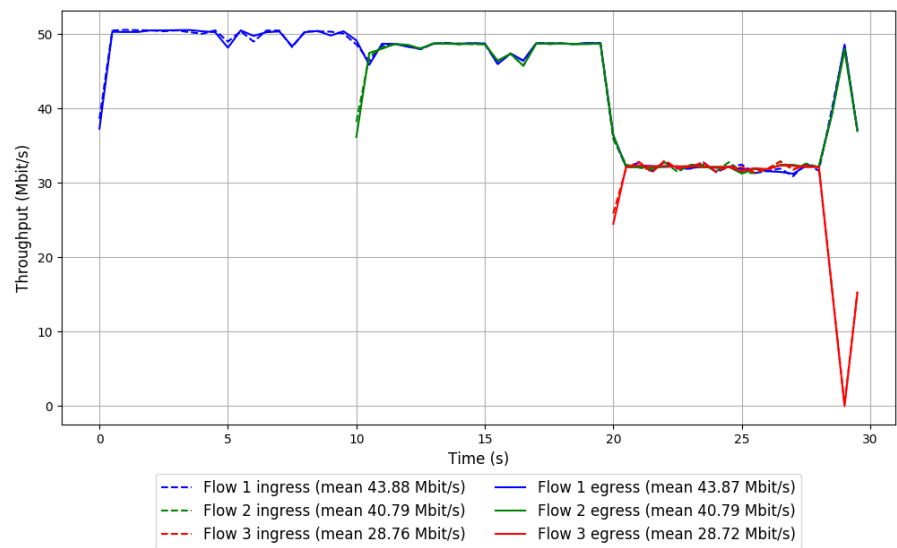
Average throughput: 28.72 Mbit/s

95th percentile per-packet one-way delay: 27.559 ms

Loss rate: 0.34%



Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 05:59:00 +0000

End at: Tue, 01 Aug 2017 05:59:30 +0000

Local clock offset: 1.058 ms

Remote clock offset: -2.598 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:39 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 24.179 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 43.64 Mbit/s

95th percentile per-packet one-way delay: 23.202 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 24.166 ms

Loss rate: 0.12%

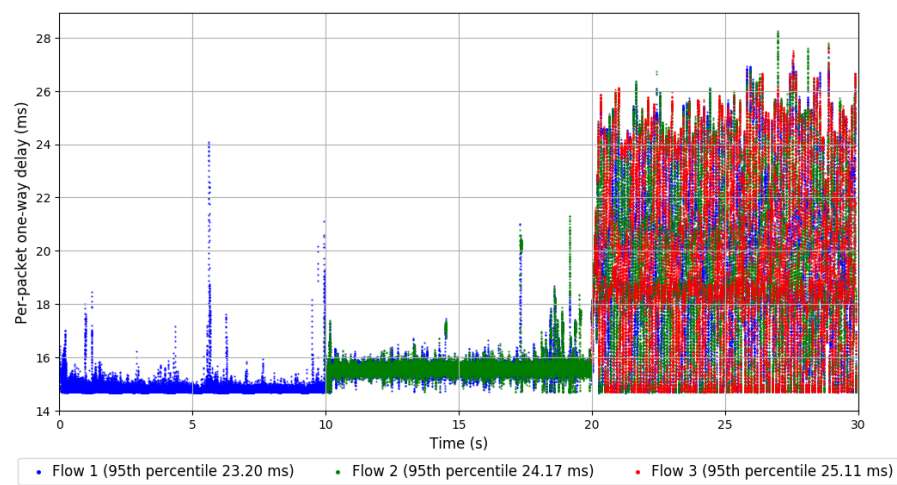
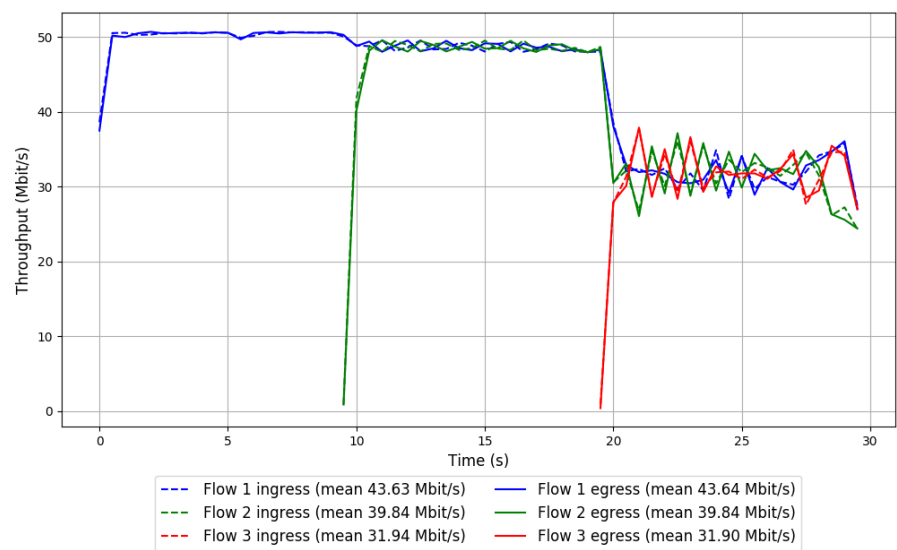
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 25.111 ms

Loss rate: 0.29%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 06:17:09 +0000

End at: Tue, 01 Aug 2017 06:17:39 +0000

Local clock offset: 0.243 ms

Remote clock offset: -3.447 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:42 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 41.73 Mbit/s

95th percentile per-packet one-way delay: 23.043 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 1252.01 Mbit/s

95th percentile per-packet one-way delay: 2487.535 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 22.979 ms

Loss rate: 0.16%

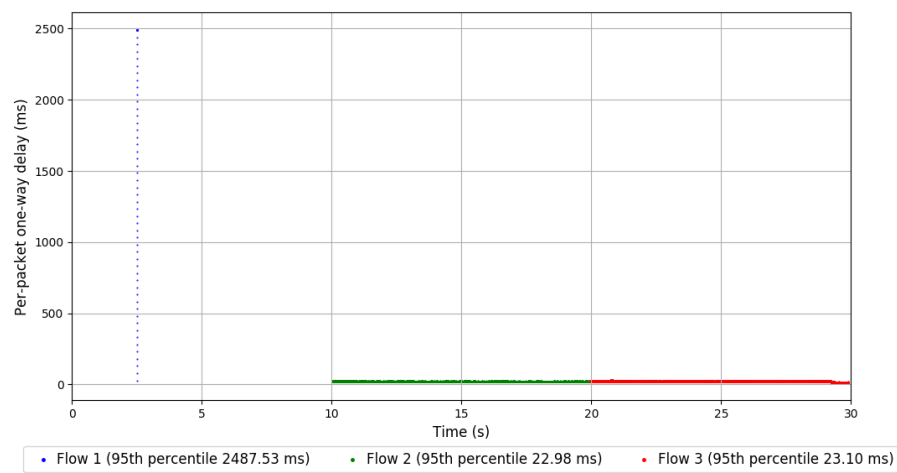
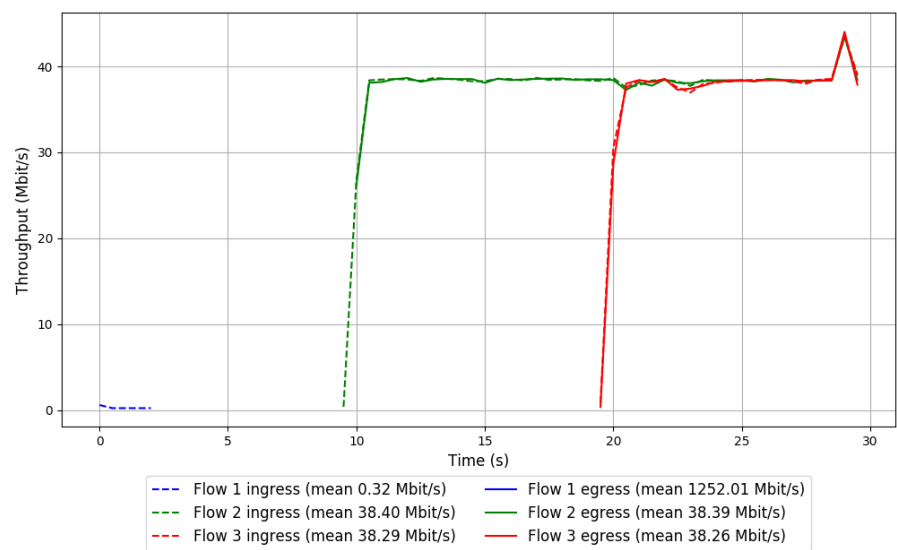
-- Flow 3:

Average throughput: 38.26 Mbit/s

95th percentile per-packet one-way delay: 23.102 ms

Loss rate: 0.31%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 06:35:09 +0000

End at: Tue, 01 Aug 2017 06:35:39 +0000

Local clock offset: -0.771 ms

Remote clock offset: -3.137 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.52 Mbit/s

95th percentile per-packet one-way delay: 25.346 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 42.50 Mbit/s

95th percentile per-packet one-way delay: 24.325 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 25.518 ms

Loss rate: 0.12%

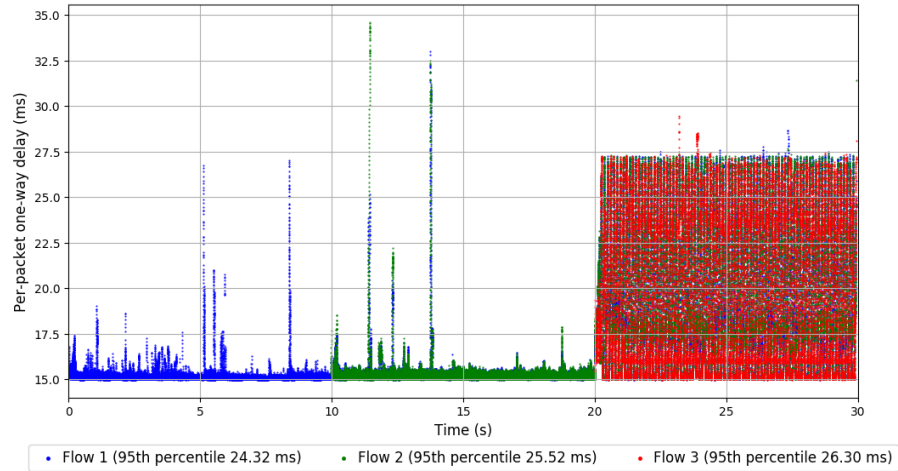
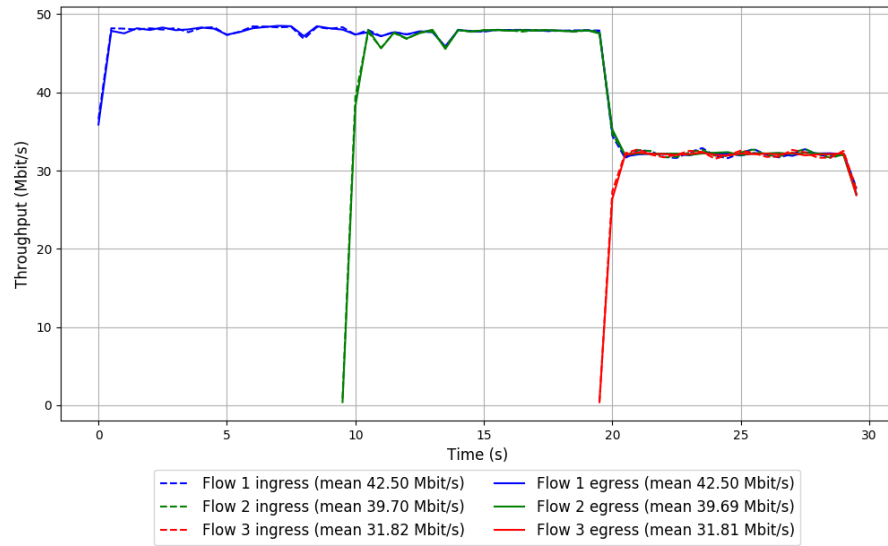
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 26.297 ms

Loss rate: 0.29%

## Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 06:53:28 +0000

End at: Tue, 01 Aug 2017 06:53:58 +0000

Local clock offset: 1.082 ms

Remote clock offset: -5.725 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:53 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 26.883 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 39.99 Mbit/s

95th percentile per-packet one-way delay: 26.375 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 28.315 ms

Loss rate: 0.10%

-- Flow 3:

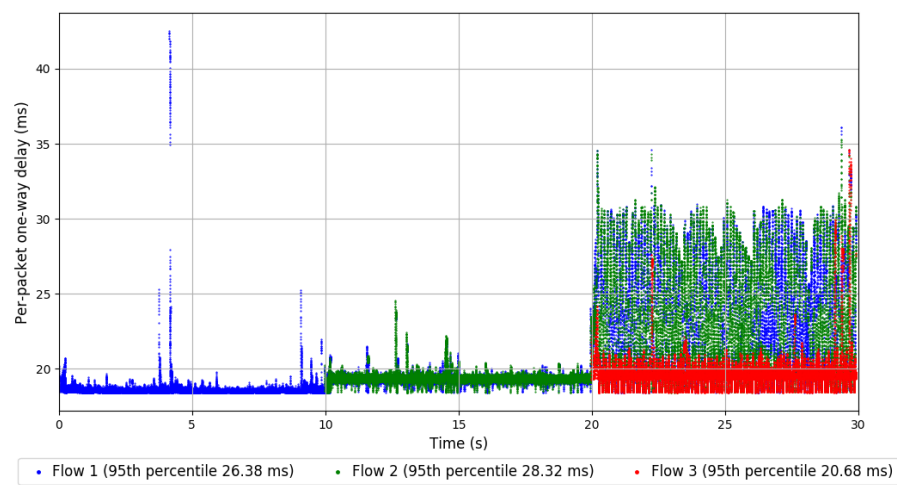
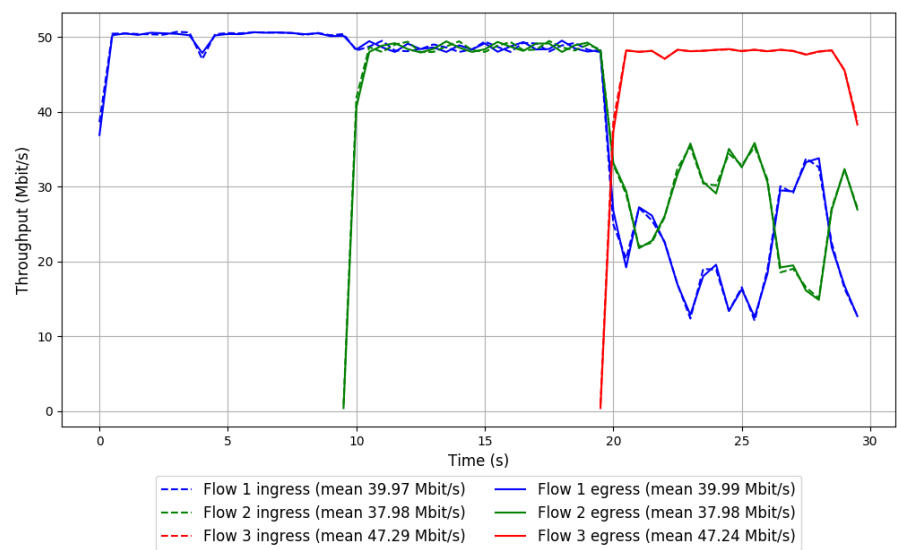
Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 20.682 ms

Loss rate: 0.25%



Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 07:11:24 +0000

End at: Tue, 01 Aug 2017 07:11:54 +0000

Local clock offset: -0.968 ms

Remote clock offset: -4.809 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:40:59 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.59 Mbit/s

95th percentile per-packet one-way delay: 25.818 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 43.45 Mbit/s

95th percentile per-packet one-way delay: 24.783 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.89 Mbit/s

95th percentile per-packet one-way delay: 25.835 ms

Loss rate: 0.13%

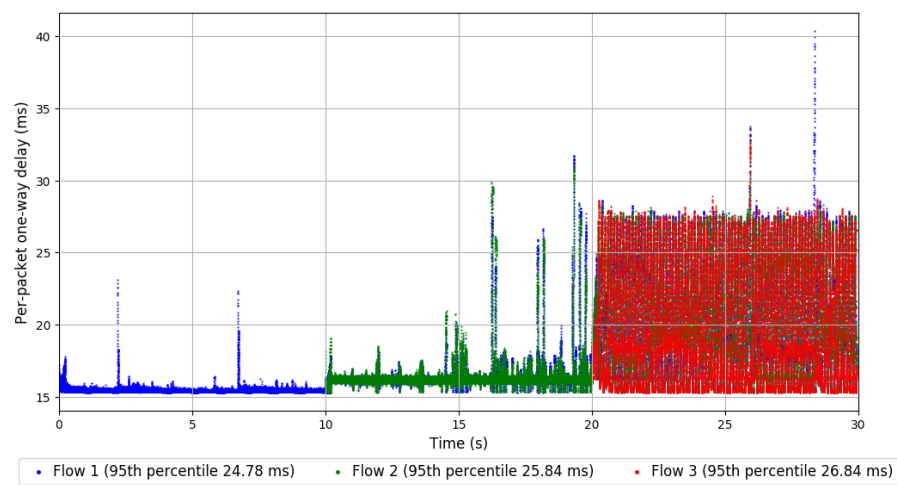
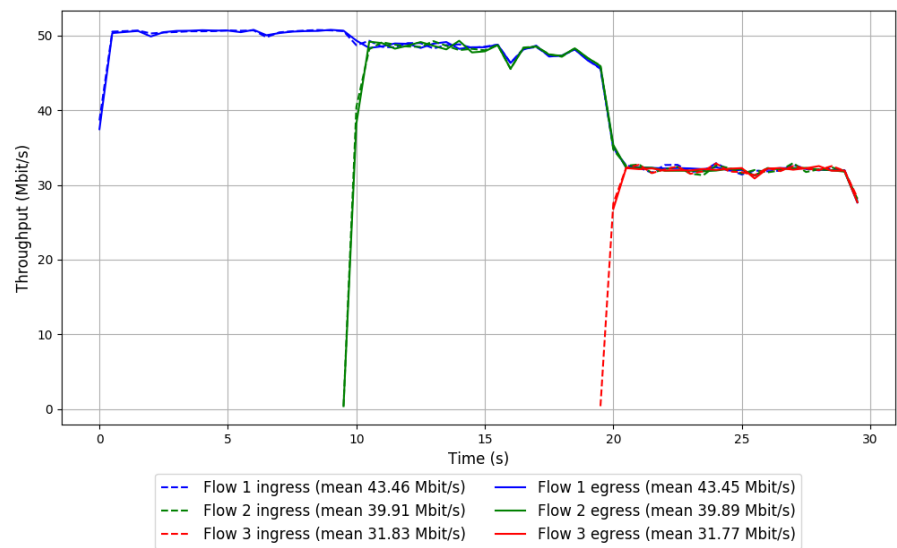
-- Flow 3:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 26.845 ms

Loss rate: 0.34%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 07:29:44 +0000

End at: Tue, 01 Aug 2017 07:30:14 +0000

Local clock offset: -0.577 ms

Remote clock offset: -5.567 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:04 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.66 Mbit/s

95th percentile per-packet one-way delay: 27.051 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 25.904 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 27.091 ms

Loss rate: 0.13%

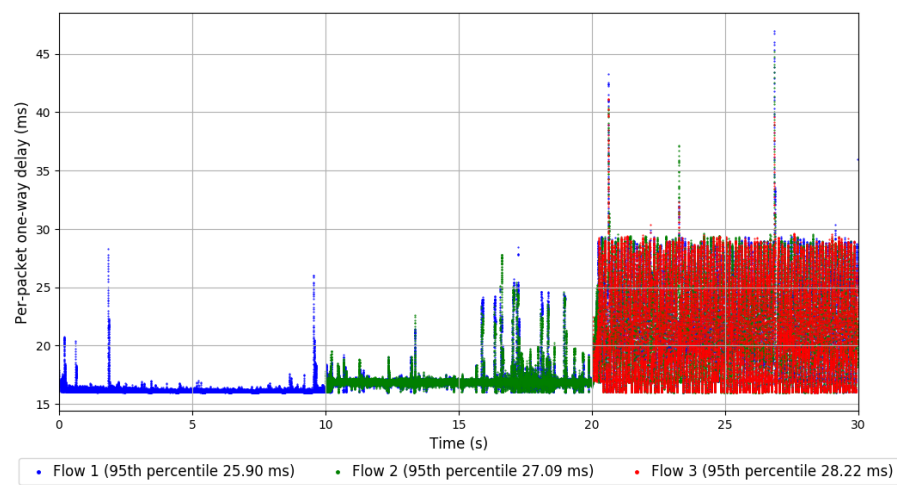
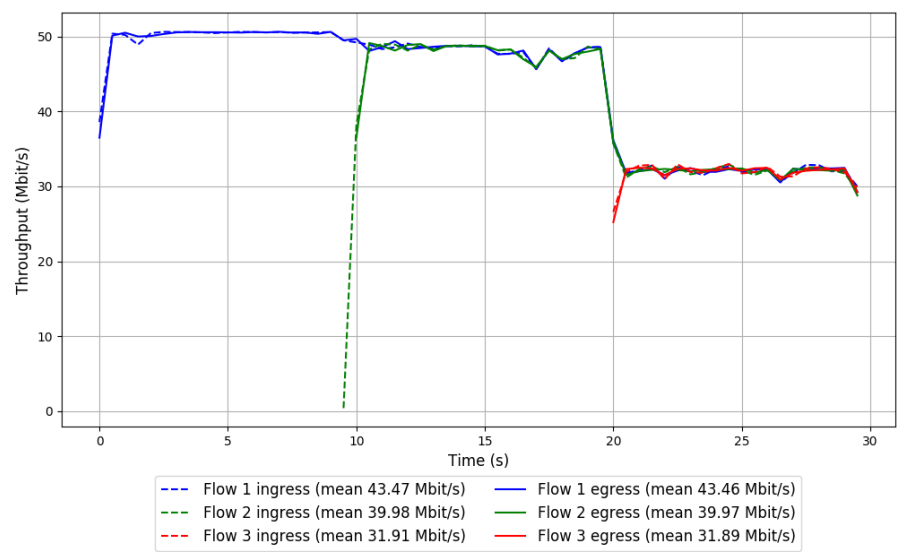
-- Flow 3:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 28.221 ms

Loss rate: 0.31%

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 04:52:06 +0000

End at: Tue, 01 Aug 2017 04:52:36 +0000

Local clock offset: 1.179 ms

Remote clock offset: -3.085 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:12 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 60.080 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 62.13 Mbit/s

95th percentile per-packet one-way delay: 38.007 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 36.99 Mbit/s

95th percentile per-packet one-way delay: 60.250 ms

Loss rate: 0.22%

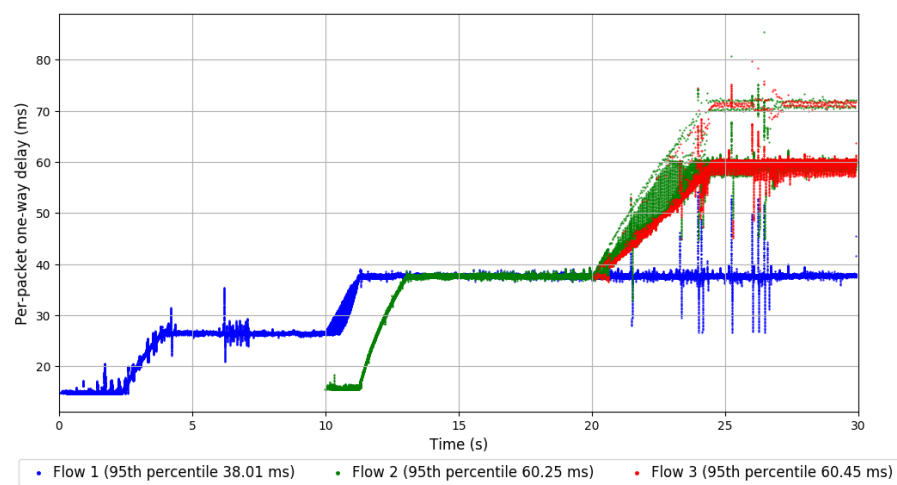
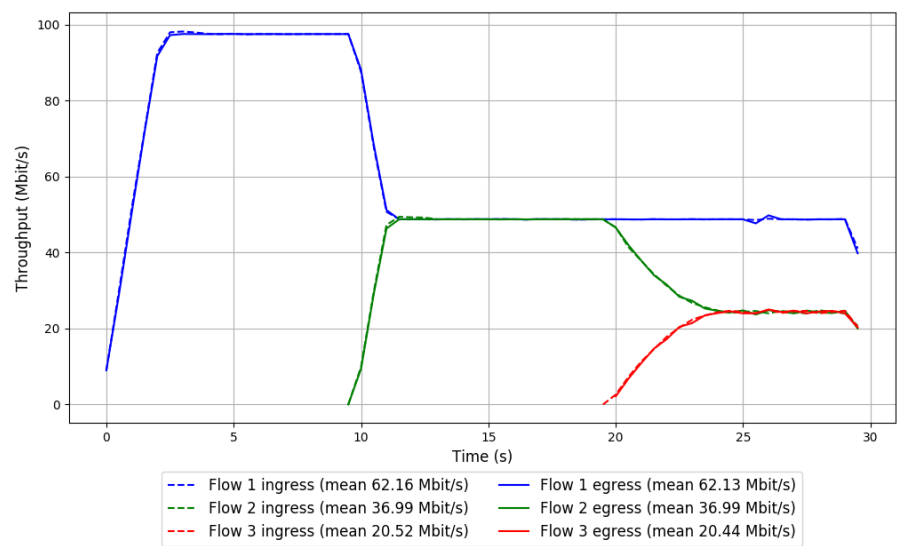
-- Flow 3:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 60.452 ms

Loss rate: 0.86%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 05:10:12 +0000

End at: Tue, 01 Aug 2017 05:10:42 +0000

Local clock offset: -1.144 ms

Remote clock offset: -2.678 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:17 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.76 Mbit/s

95th percentile per-packet one-way delay: 57.510 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 55.61 Mbit/s

95th percentile per-packet one-way delay: 57.472 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 57.607 ms

Loss rate: 0.24%

-- Flow 3:

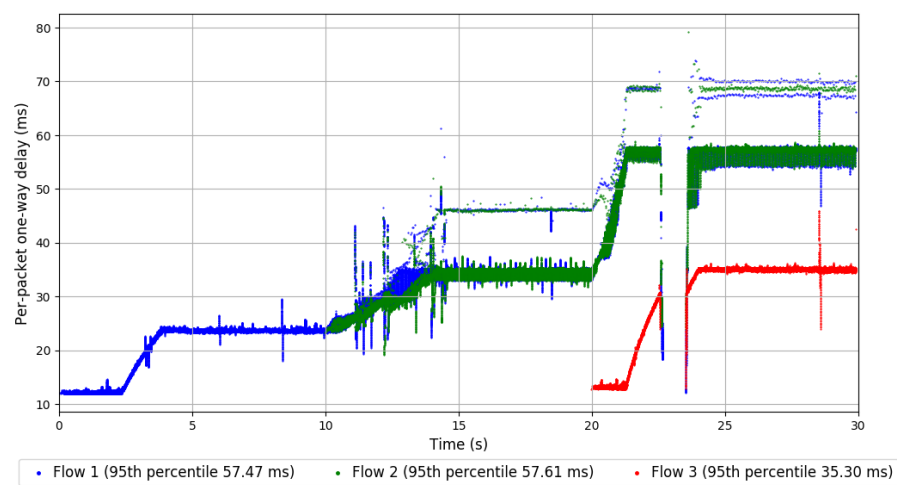
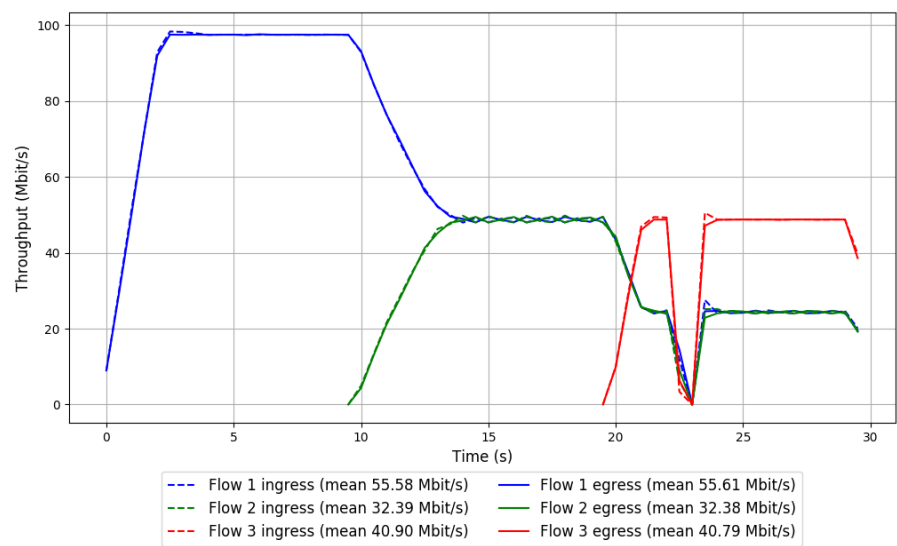
Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 35.298 ms

Loss rate: 0.56%



Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 05:28:40 +0000

End at: Tue, 01 Aug 2017 05:29:10 +0000

Local clock offset: 0.667 ms

Remote clock offset: -3.189 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:25 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 59.774 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 60.50 Mbit/s

95th percentile per-packet one-way delay: 37.807 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 35.22 Mbit/s

95th percentile per-packet one-way delay: 60.041 ms

Loss rate: 0.24%

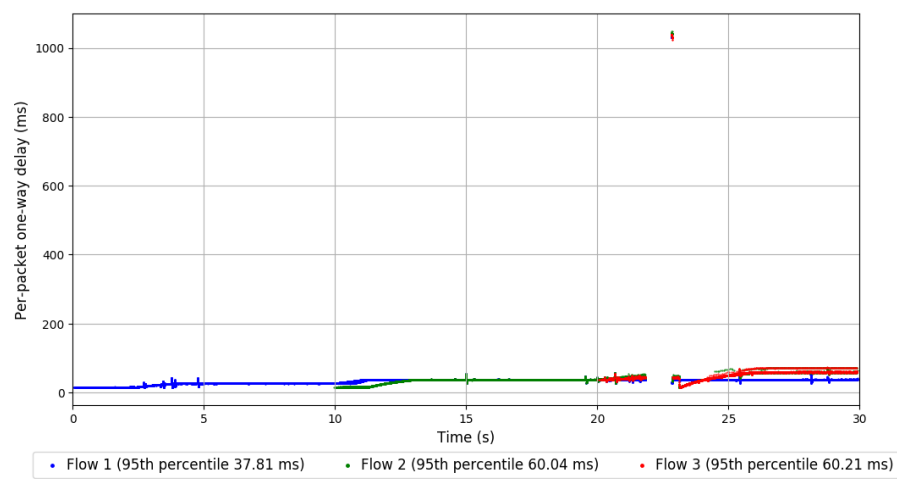
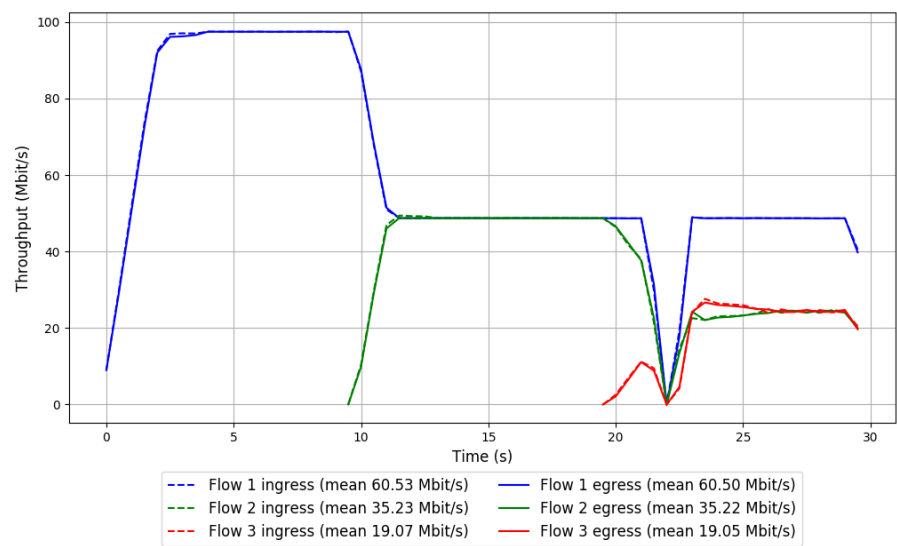
-- Flow 3:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 60.210 ms

Loss rate: 0.89%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 05:46:53 +0000

End at: Tue, 01 Aug 2017 05:47:23 +0000

Local clock offset: 1.666 ms

Remote clock offset: -4.857 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 62.956 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 40.784 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 63.108 ms

Loss rate: 0.22%

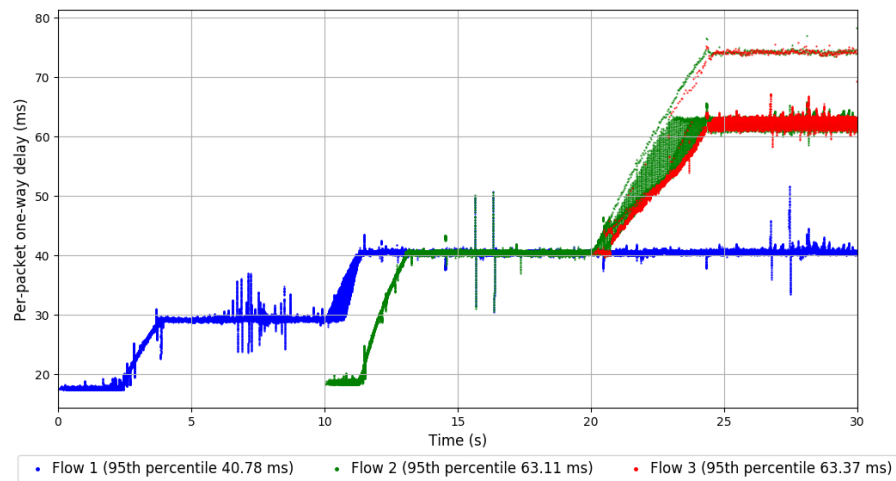
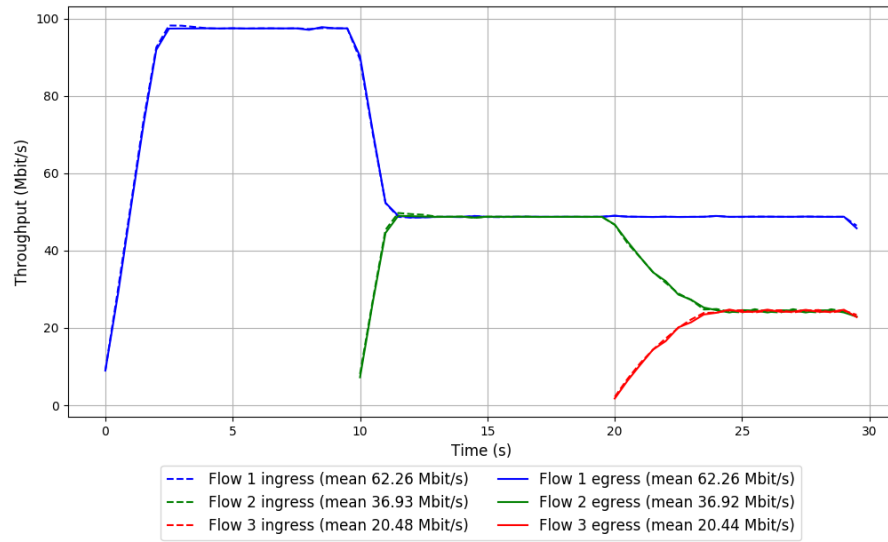
-- Flow 3:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 63.372 ms

Loss rate: 0.85%

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



Run 5: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 06:05:09 +0000

End at: Tue, 01 Aug 2017 06:05:39 +0000

Local clock offset: -1.319 ms

Remote clock offset: -2.66 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:37 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 58.125 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 56.17 Mbit/s

95th percentile per-packet one-way delay: 58.086 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 33.54 Mbit/s

95th percentile per-packet one-way delay: 58.268 ms

Loss rate: 0.25%

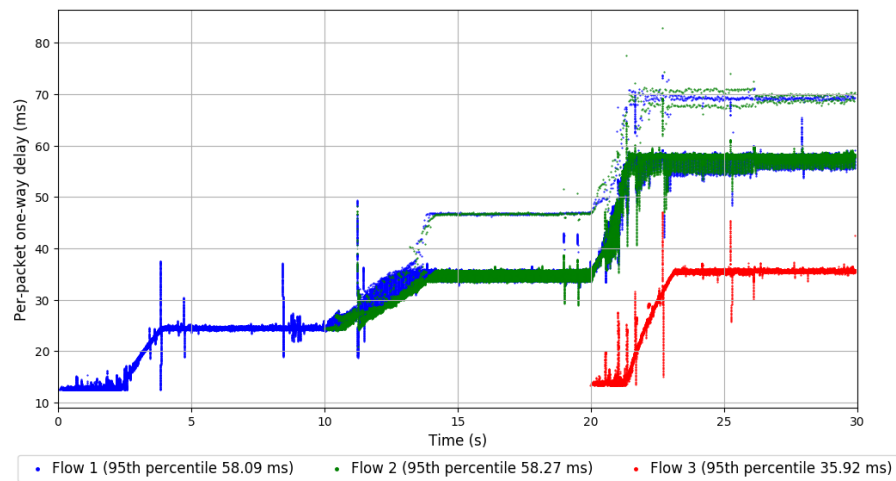
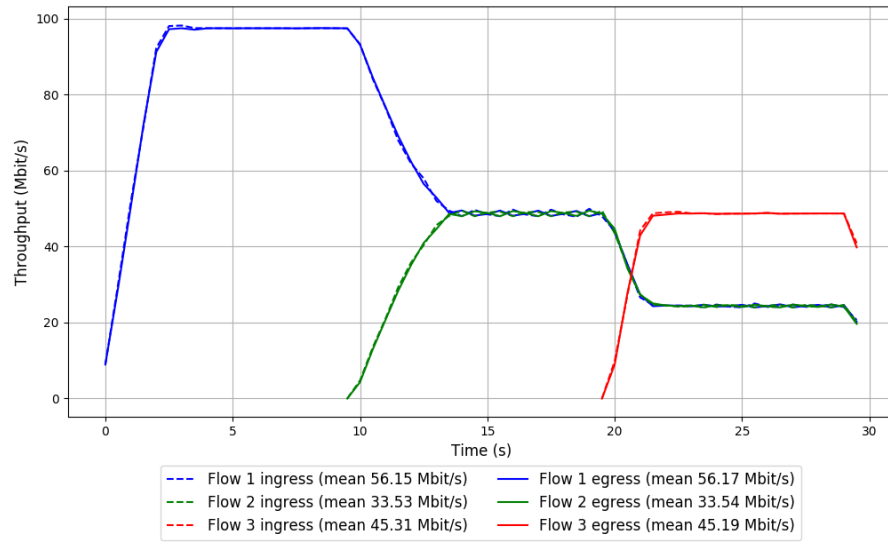
-- Flow 3:

Average throughput: 45.19 Mbit/s

95th percentile per-packet one-way delay: 35.920 ms

Loss rate: 0.51%

# Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 06:23:03 +0000

End at: Tue, 01 Aug 2017 06:23:33 +0000

Local clock offset: -0.293 ms

Remote clock offset: -2.97 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:43 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 48.706 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 48.690 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 48.689 ms

Loss rate: 0.24%

-- Flow 3:

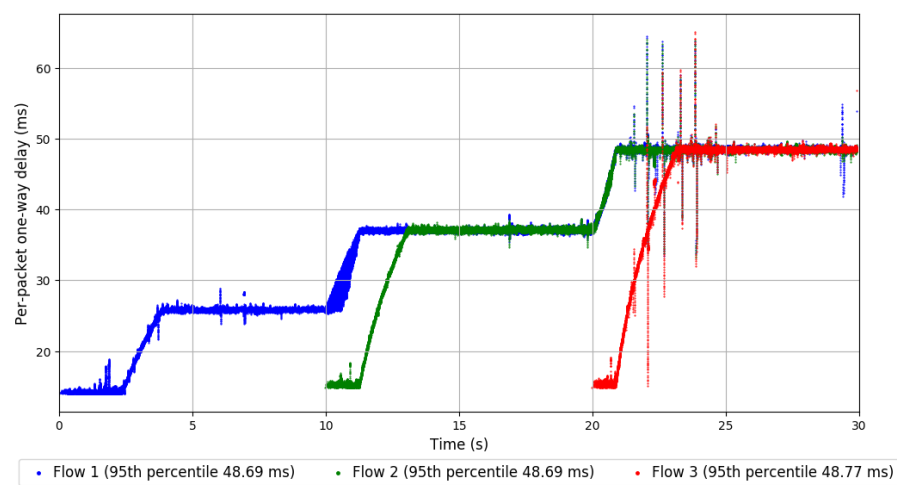
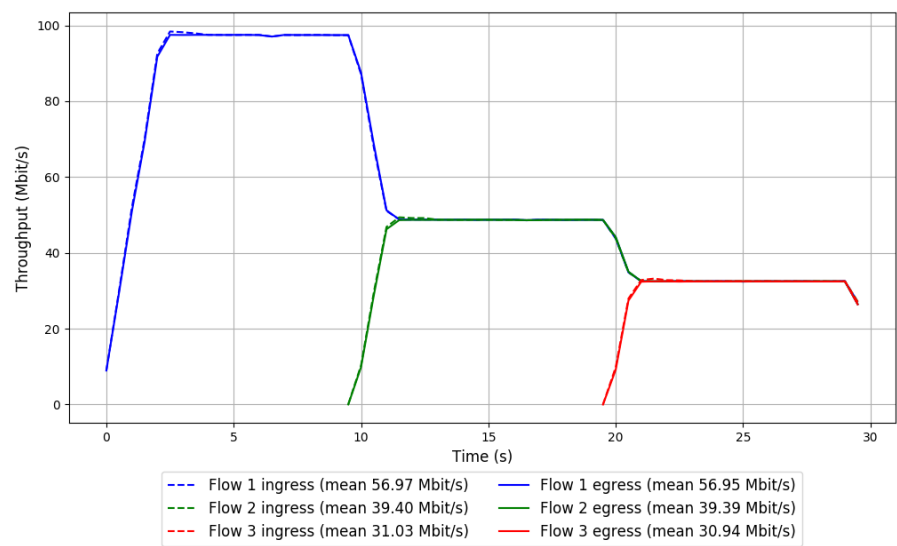
Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 48.765 ms

Loss rate: 0.61%



Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 06:41:09 +0000

End at: Tue, 01 Aug 2017 06:41:39 +0000

Local clock offset: -0.22 ms

Remote clock offset: -4.159 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 51.196 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 51.322 ms

Loss rate: 0.24%

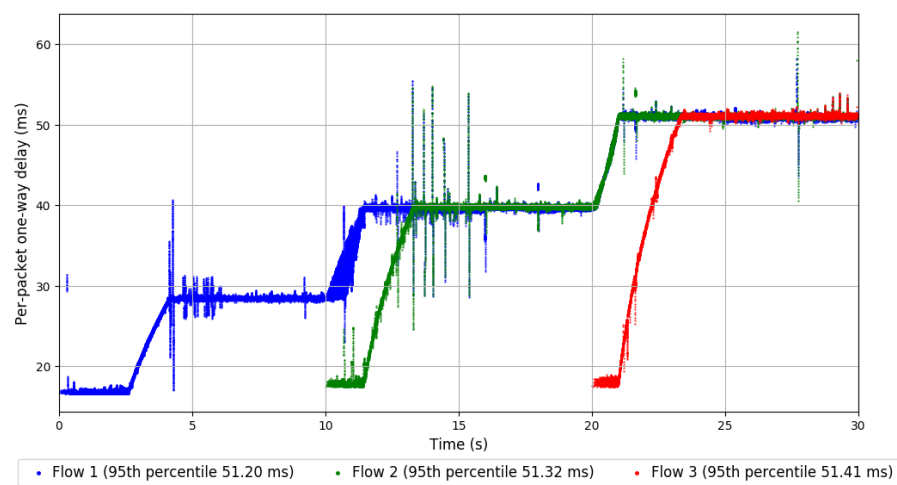
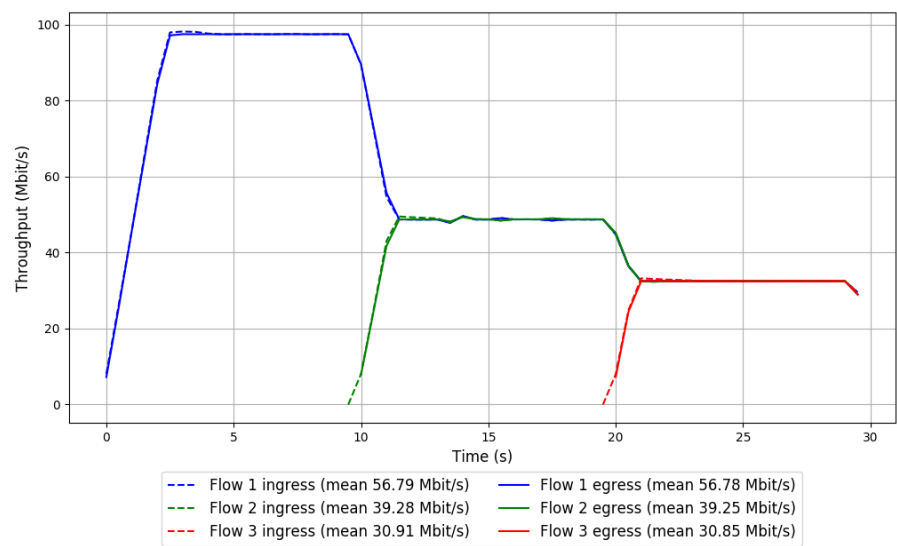
-- Flow 3:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 51.410 ms

Loss rate: 0.63%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 06:59:17 +0000

End at: Tue, 01 Aug 2017 06:59:47 +0000

Local clock offset: -1.47 ms

Remote clock offset: -3.343 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:41:55 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.78 Mbit/s

95th percentile per-packet one-way delay: 48.388 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 48.224 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 37.77 Mbit/s

95th percentile per-packet one-way delay: 48.415 ms

Loss rate: 0.25%

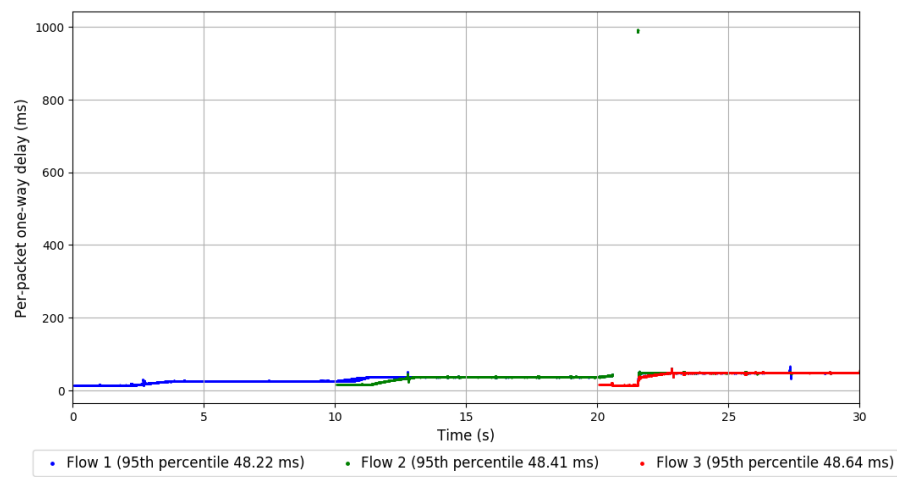
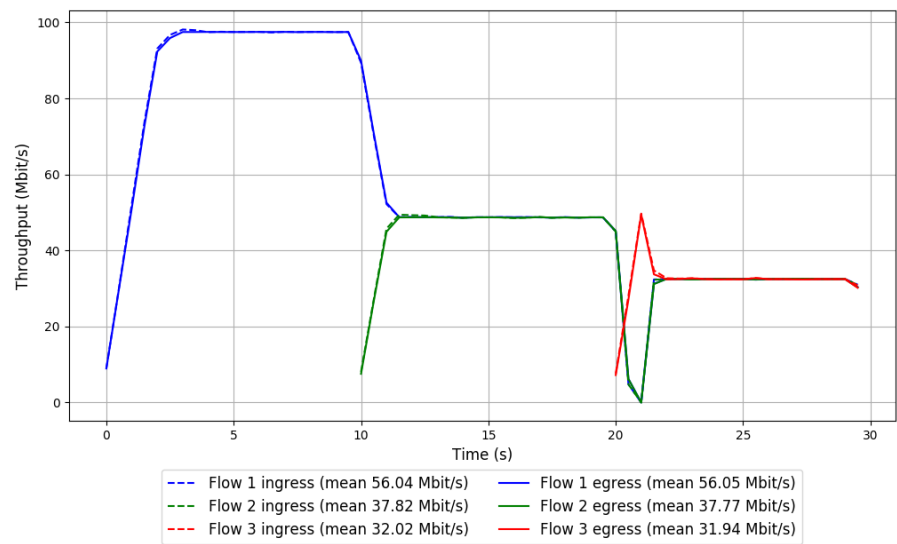
-- Flow 3:

Average throughput: 31.94 Mbit/s

95th percentile per-packet one-way delay: 48.637 ms

Loss rate: 0.59%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 07:17:28 +0000

End at: Tue, 01 Aug 2017 07:17:58 +0000

Local clock offset: -2.617 ms

Remote clock offset: -5.138 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:05 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 59.391 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 59.349 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 59.494 ms

Loss rate: 0.24%

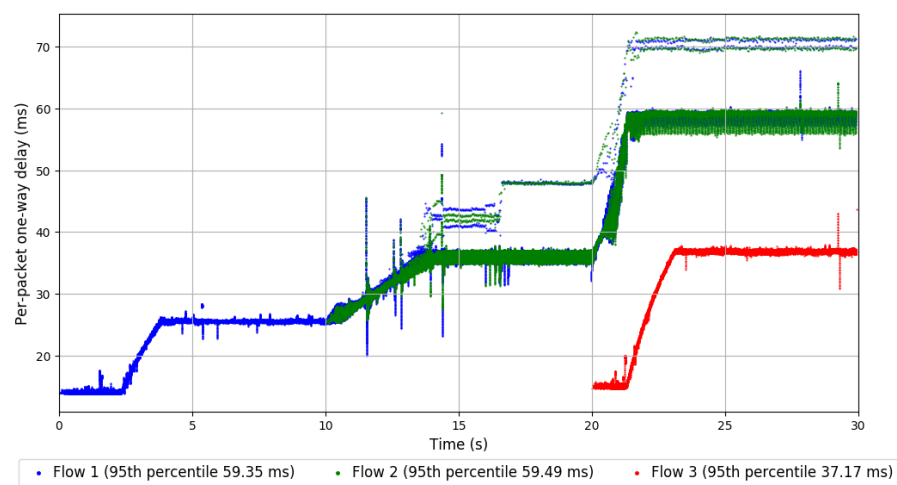
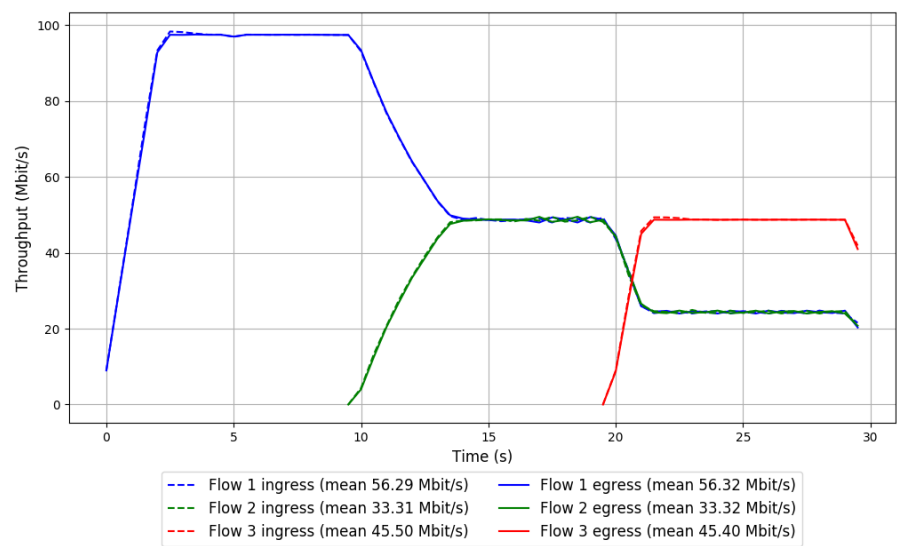
-- Flow 3:

Average throughput: 45.40 Mbit/s

95th percentile per-packet one-way delay: 37.174 ms

Loss rate: 0.50%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 07:35:36 +0000

End at: Tue, 01 Aug 2017 07:36:06 +0000

Local clock offset: -2.067 ms

Remote clock offset: -5.017 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:08 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.00 Mbit/s

95th percentile per-packet one-way delay: 48.426 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 48.376 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 48.420 ms

Loss rate: 0.25%

-- Flow 3:

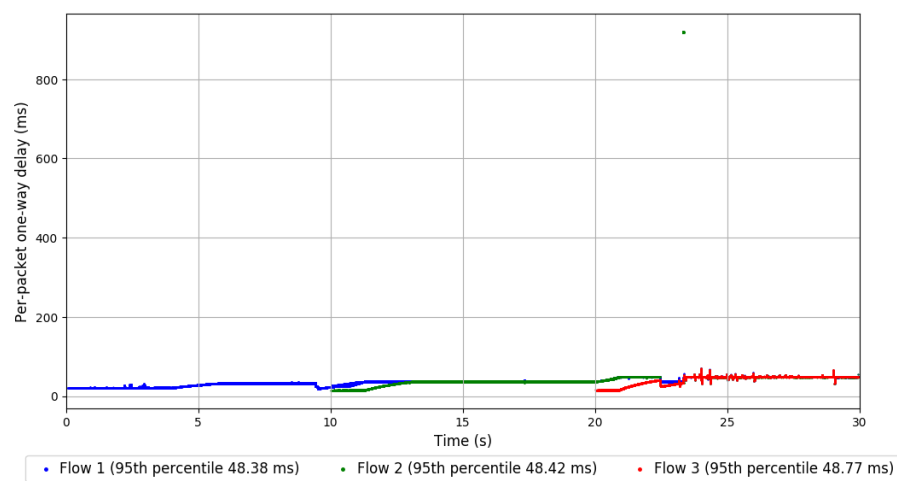
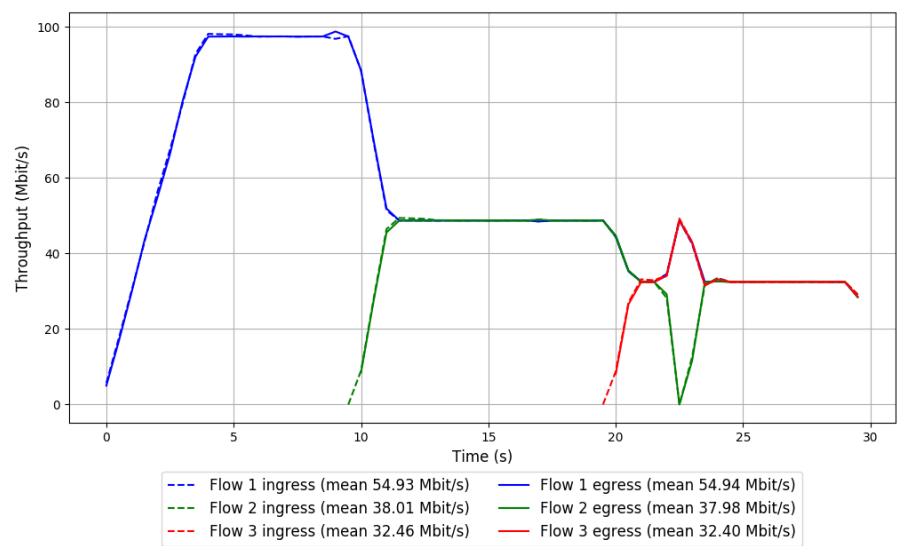
Average throughput: 32.40 Mbit/s

95th percentile per-packet one-way delay: 48.773 ms

Loss rate: 0.58%



Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Tue, 01 Aug 2017 04:46:52 +0000

End at: Tue, 01 Aug 2017 04:47:22 +0000

Local clock offset: 1.189 ms

Remote clock offset: -3.769 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 45.187 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 61.49 Mbit/s

95th percentile per-packet one-way delay: 37.653 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 46.634 ms

Loss rate: 0.09%

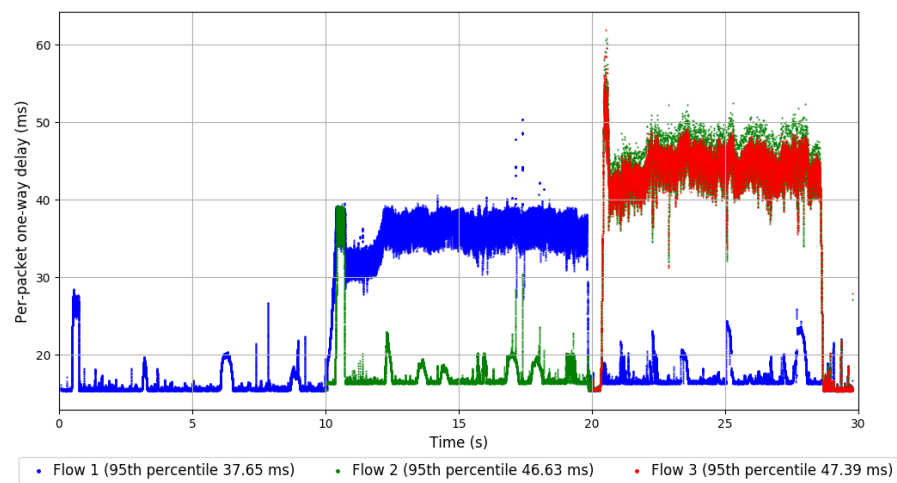
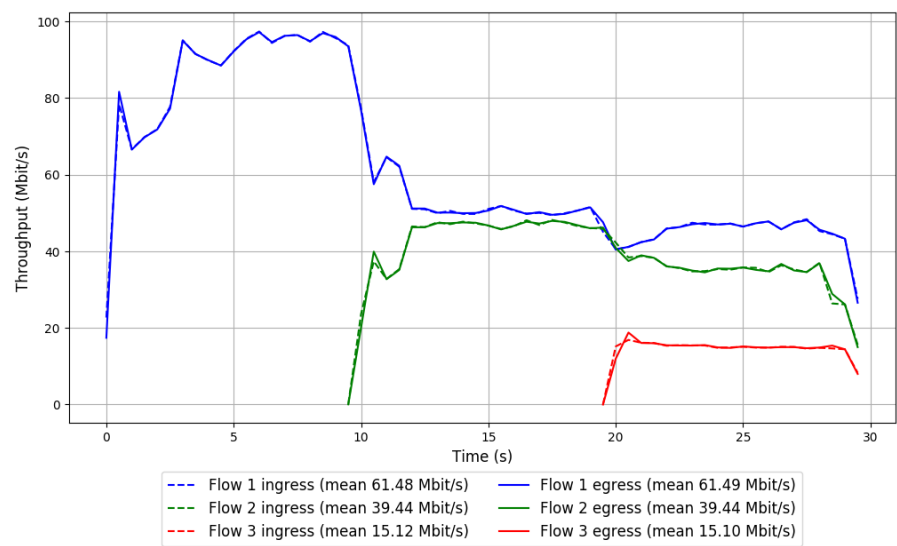
-- Flow 3:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 47.394 ms

Loss rate: 0.26%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Tue, 01 Aug 2017 05:05:33 +0000

End at: Tue, 01 Aug 2017 05:06:03 +0000

Local clock offset: 1.986 ms

Remote clock offset: -3.03 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:20 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.83 Mbit/s

95th percentile per-packet one-way delay: 49.737 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 48.787 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 37.79 Mbit/s

95th percentile per-packet one-way delay: 49.778 ms

Loss rate: 0.08%

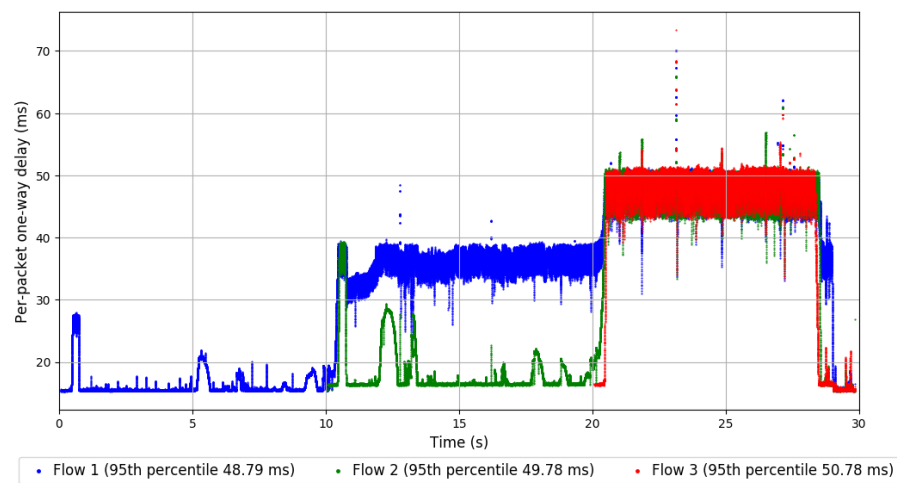
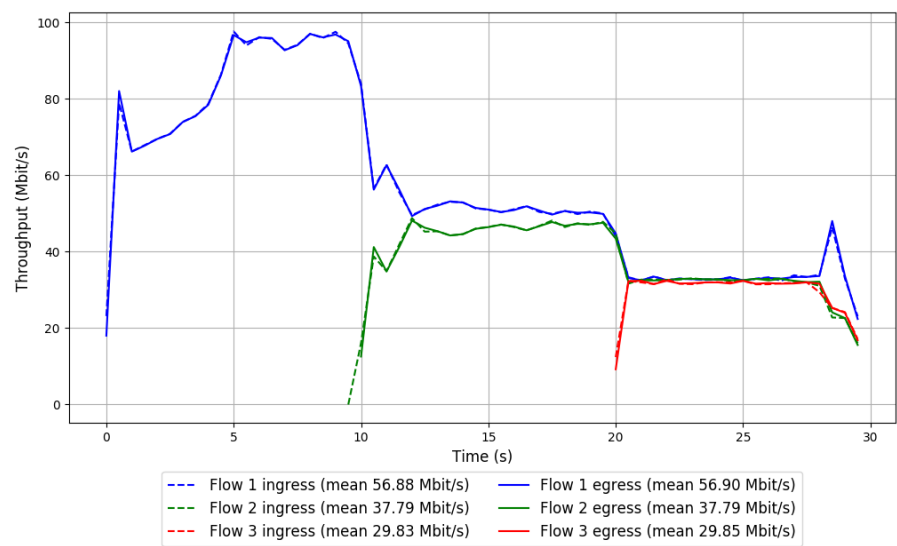
-- Flow 3:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.22%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Tue, 01 Aug 2017 05:23:50 +0000

End at: Tue, 01 Aug 2017 05:24:20 +0000

Local clock offset: 0.486 ms

Remote clock offset: -4.447 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:29 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 49.813 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 57.99 Mbit/s

95th percentile per-packet one-way delay: 48.822 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 38.26 Mbit/s

95th percentile per-packet one-way delay: 49.783 ms

Loss rate: 0.08%

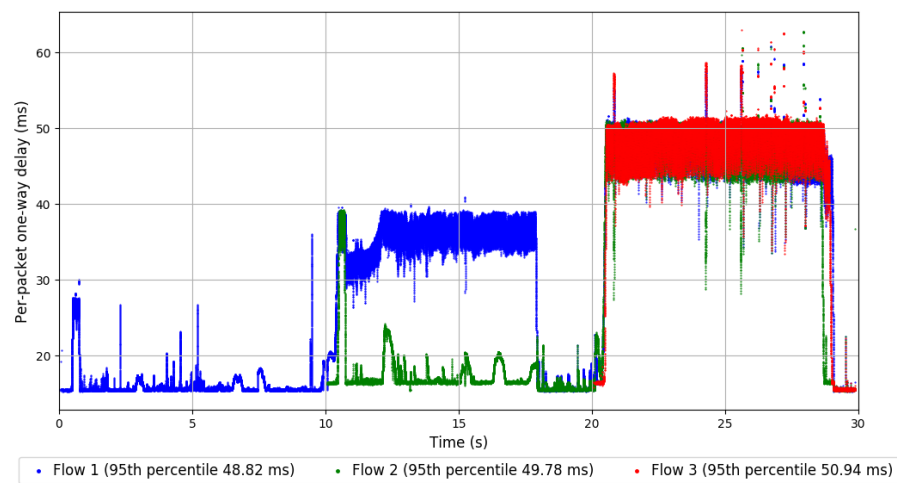
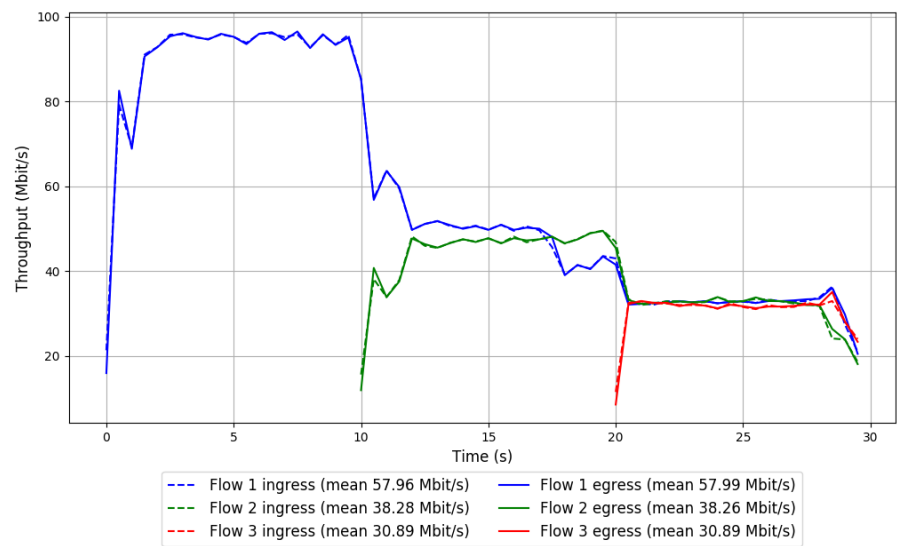
-- Flow 3:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 50.942 ms

Loss rate: 0.26%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Tue, 01 Aug 2017 05:41:57 +0000

End at: Tue, 01 Aug 2017 05:42:27 +0000

Local clock offset: 1.972 ms

Remote clock offset: -5.176 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:33 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 40.792 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 64.36 Mbit/s

95th percentile per-packet one-way delay: 40.099 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 41.96 Mbit/s

95th percentile per-packet one-way delay: 42.539 ms

Loss rate: 0.13%

-- Flow 3:

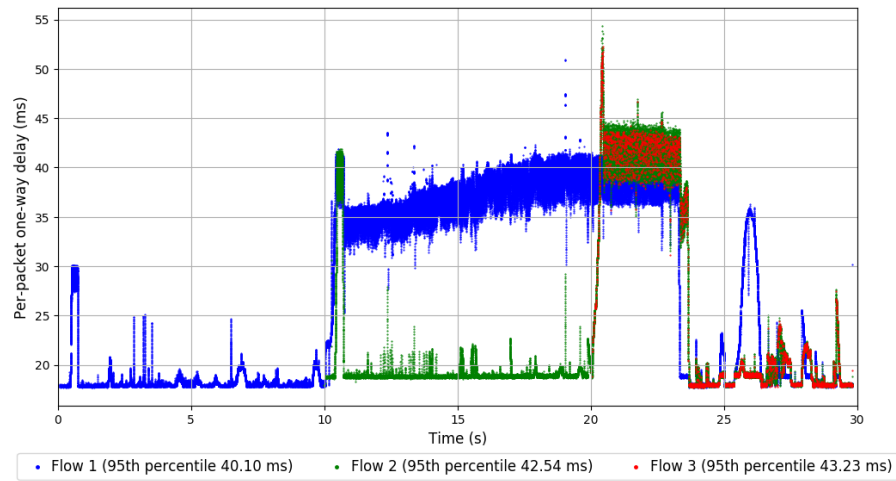
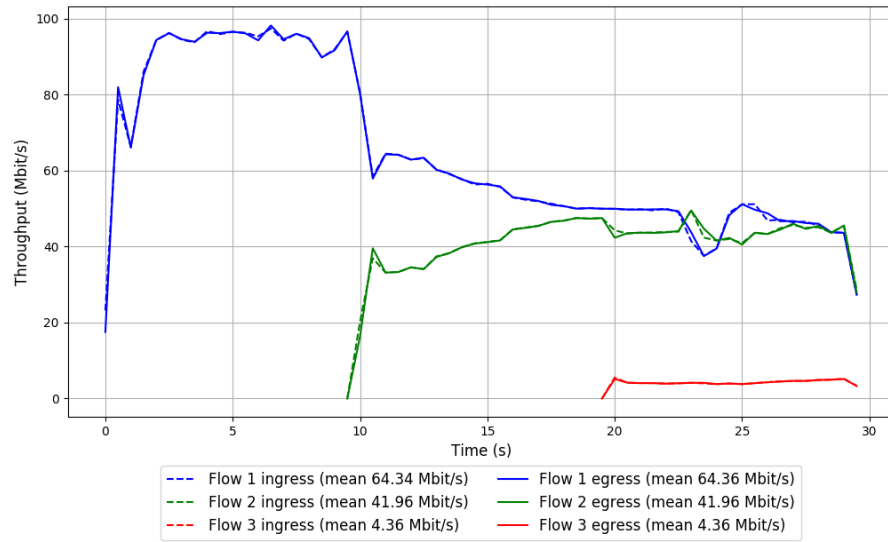
Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 43.231 ms

Loss rate: 0.30%



# Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Tue, 01 Aug 2017 06:00:14 +0000

End at: Tue, 01 Aug 2017 06:00:44 +0000

Local clock offset: 1.748 ms

Remote clock offset: -3.401 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:46 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 39.083 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 64.88 Mbit/s

95th percentile per-packet one-way delay: 39.514 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 21.651 ms

Loss rate: 0.21%

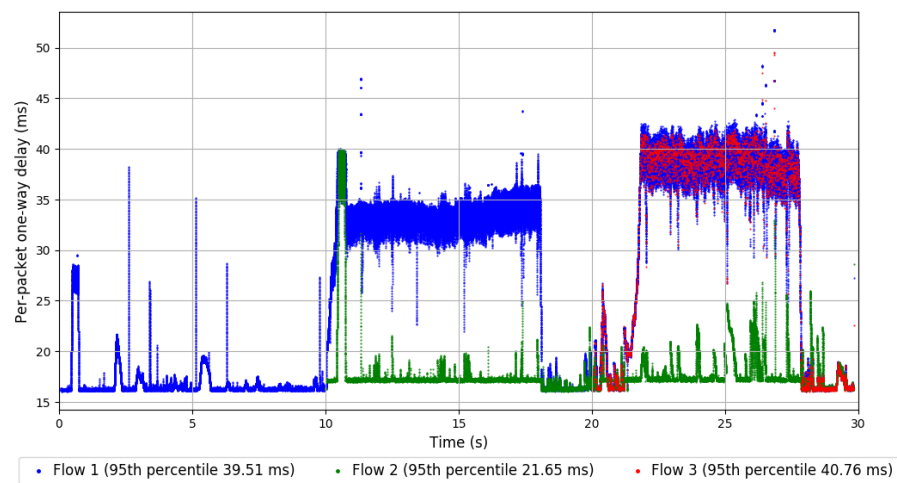
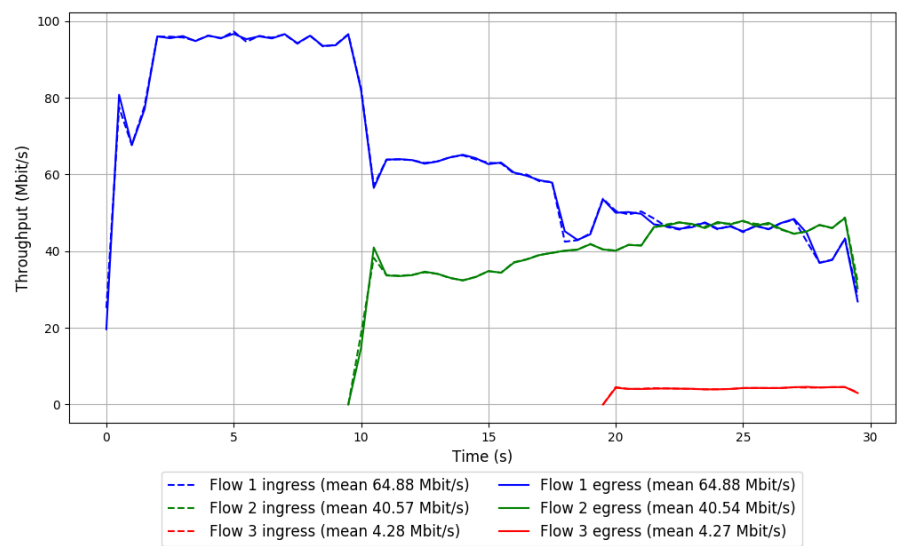
-- Flow 3:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 40.761 ms

Loss rate: 0.36%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Tue, 01 Aug 2017 06:18:18 +0000

End at: Tue, 01 Aug 2017 06:18:48 +0000

Local clock offset: 0.699 ms

Remote clock offset: -3.673 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:46 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 28.326 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 82.08 Mbit/s

95th percentile per-packet one-way delay: 28.255 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 28.640 ms

Loss rate: 0.16%

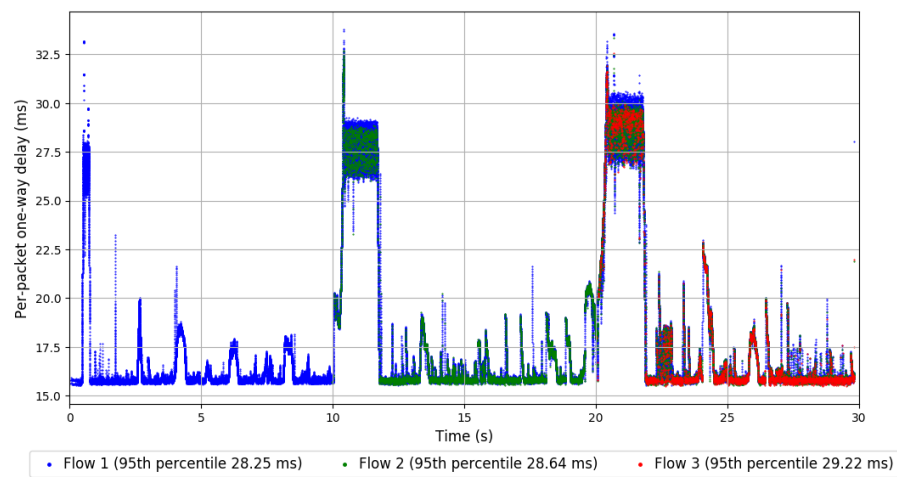
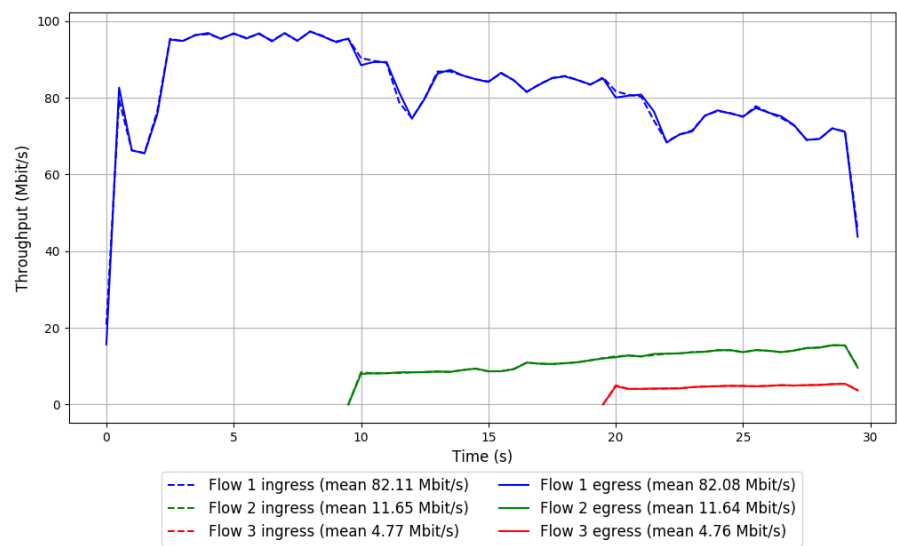
-- Flow 3:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 29.224 ms

Loss rate: 0.34%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Tue, 01 Aug 2017 06:36:21 +0000

End at: Tue, 01 Aug 2017 06:36:51 +0000

Local clock offset: -0.809 ms

Remote clock offset: -3.233 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:57 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.44 Mbit/s

95th percentile per-packet one-way delay: 41.897 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 41.805 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 44.161 ms

Loss rate: 0.26%

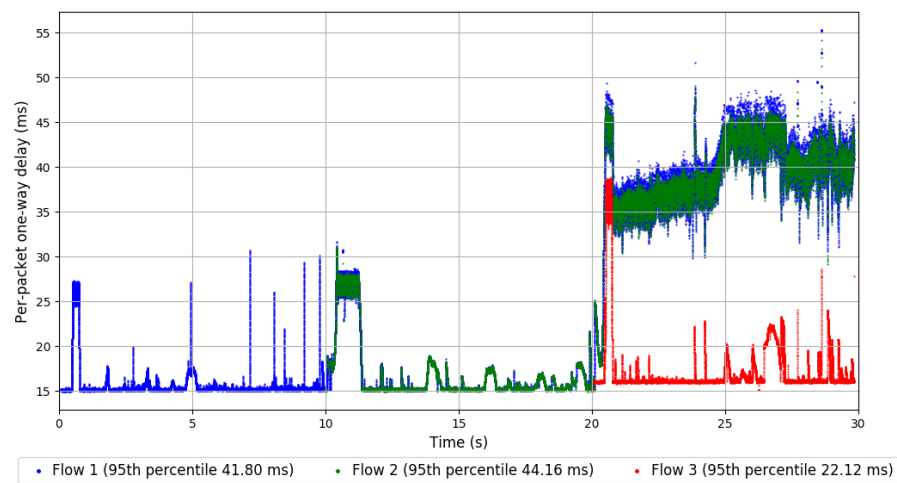
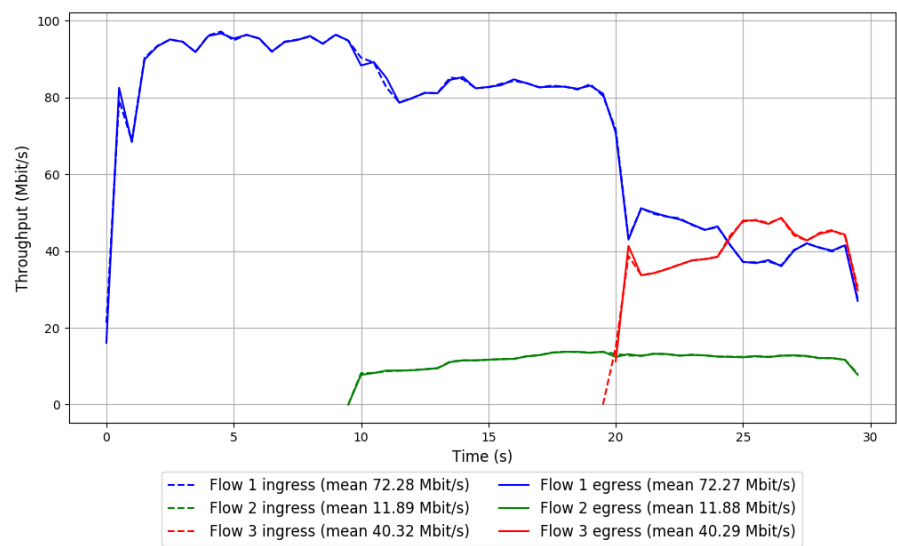
-- Flow 3:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 22.124 ms

Loss rate: 0.31%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Tue, 01 Aug 2017 06:54:42 +0000

End at: Tue, 01 Aug 2017 06:55:12 +0000

Local clock offset: -1.776 ms

Remote clock offset: -5.364 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:42:59 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 35.579 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 35.082 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 9.41 Mbit/s

95th percentile per-packet one-way delay: 36.121 ms

Loss rate: 0.13%

-- Flow 3:

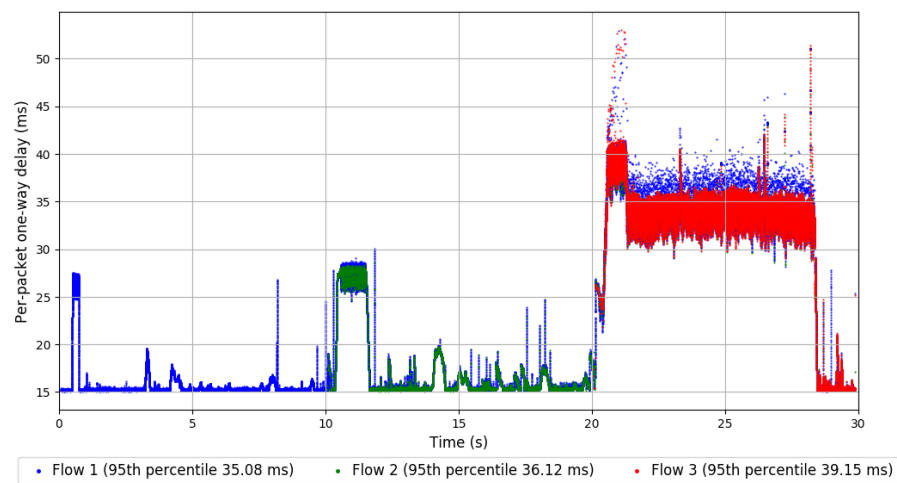
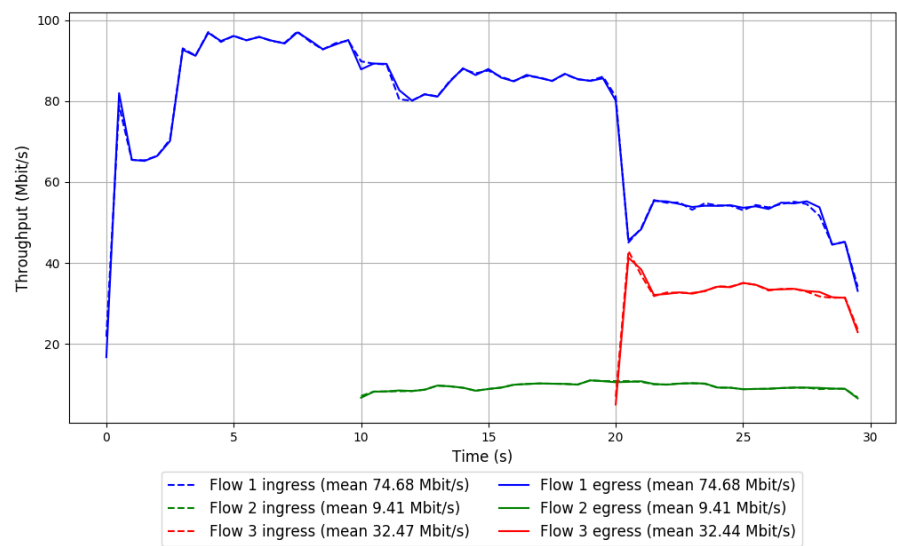
Average throughput: 32.44 Mbit/s

95th percentile per-packet one-way delay: 39.149 ms

Loss rate: 0.27%



Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Tue, 01 Aug 2017 07:12:39 +0000

End at: Tue, 01 Aug 2017 07:13:09 +0000

Local clock offset: -0.747 ms

Remote clock offset: -5.915 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 48.053 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 61.39 Mbit/s

95th percentile per-packet one-way delay: 46.967 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 49.353 ms

Loss rate: 0.26%

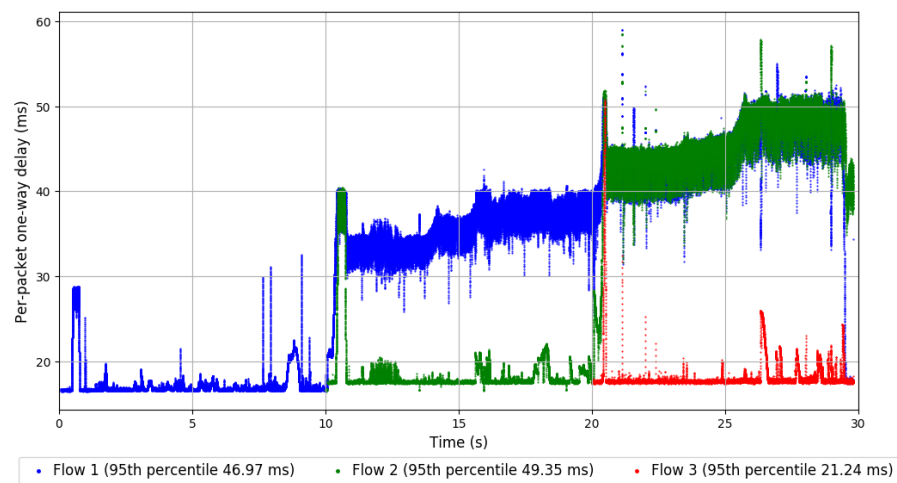
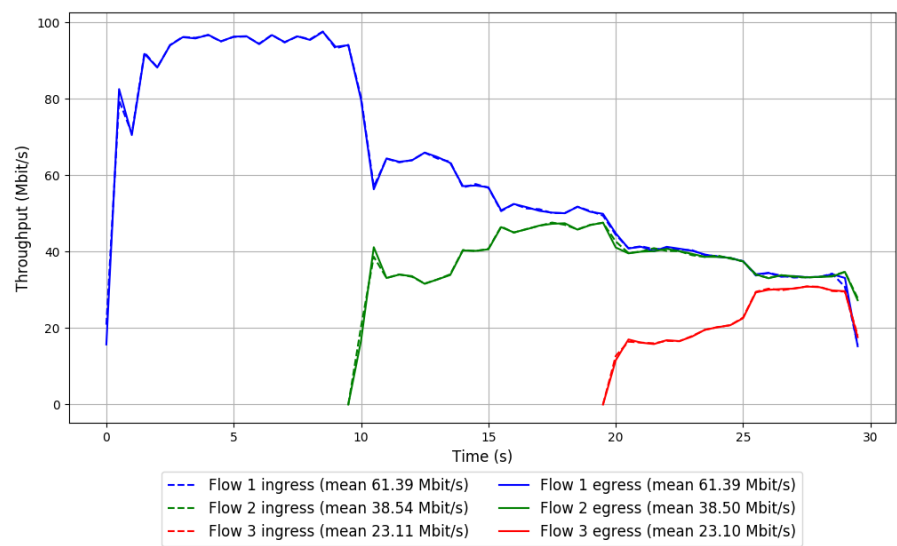
-- Flow 3:

Average throughput: 23.10 Mbit/s

95th percentile per-packet one-way delay: 21.237 ms

Loss rate: 0.32%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Tue, 01 Aug 2017 07:30:59 +0000

End at: Tue, 01 Aug 2017 07:31:29 +0000

Local clock offset: -0.527 ms

Remote clock offset: -5.388 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:12 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.65 Mbit/s

95th percentile per-packet one-way delay: 49.855 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 57.89 Mbit/s

95th percentile per-packet one-way delay: 48.704 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 50.210 ms

Loss rate: 0.12%

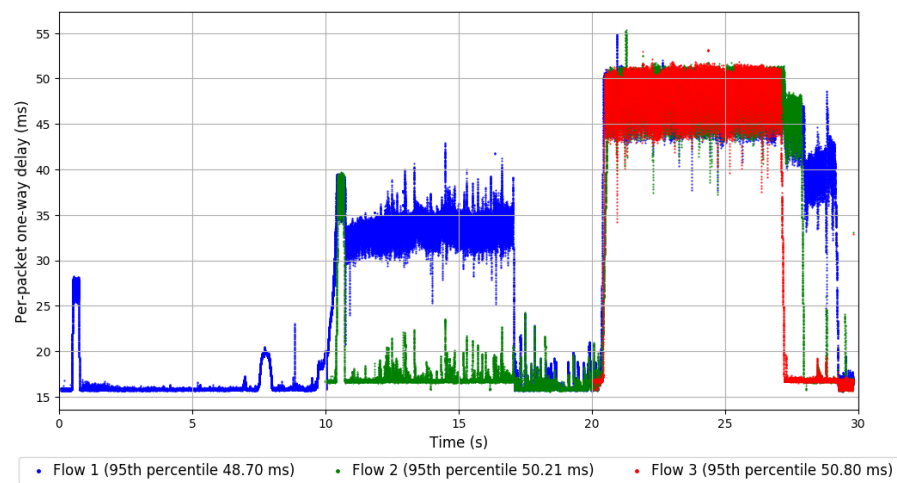
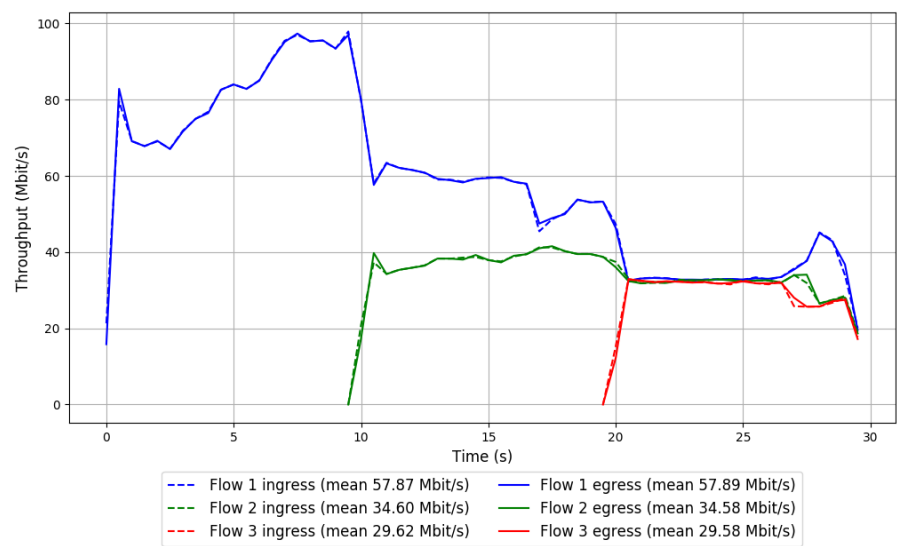
-- Flow 3:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.26%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 05:00:42 +0000

End at: Tue, 01 Aug 2017 05:01:12 +0000

Local clock offset: 2.868 ms

Remote clock offset: -3.707 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 39.442 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 16.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.35 Mbit/s

95th percentile per-packet one-way delay: 39.360 ms

Loss rate: 0.17%

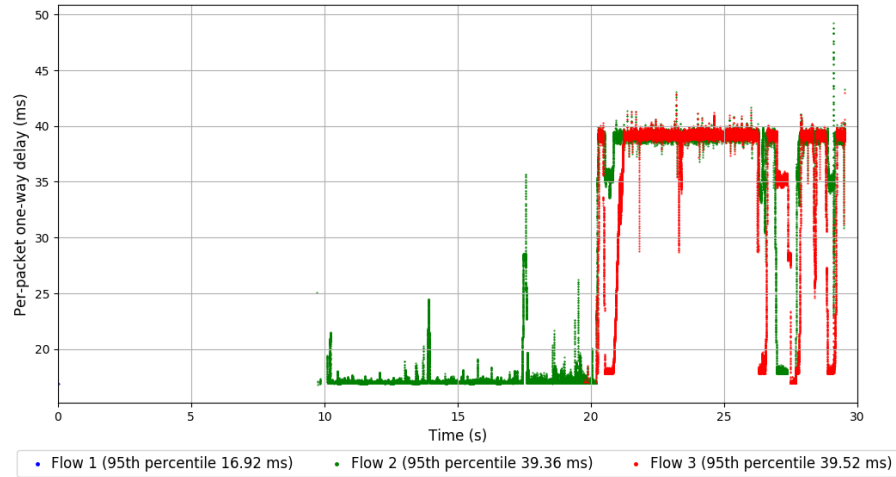
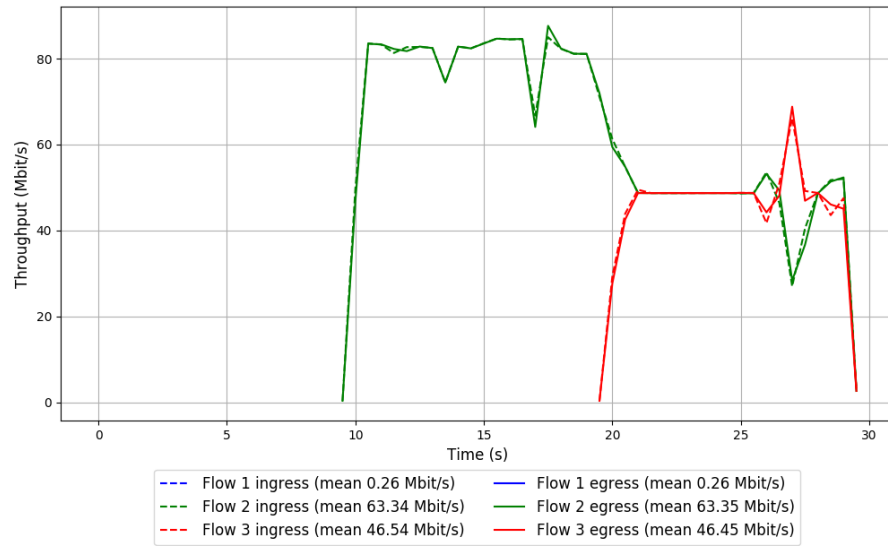
-- Flow 3:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 39.517 ms

Loss rate: 0.48%

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



Run 2: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 05:18:46 +0000

End at: Tue, 01 Aug 2017 05:19:16 +0000

Local clock offset: 0.778 ms

Remote clock offset: -3.954 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.56 Mbit/s

95th percentile per-packet one-way delay: 37.560 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 15.180 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.49 Mbit/s

95th percentile per-packet one-way delay: 37.480 ms

Loss rate: 0.20%

-- Flow 3:

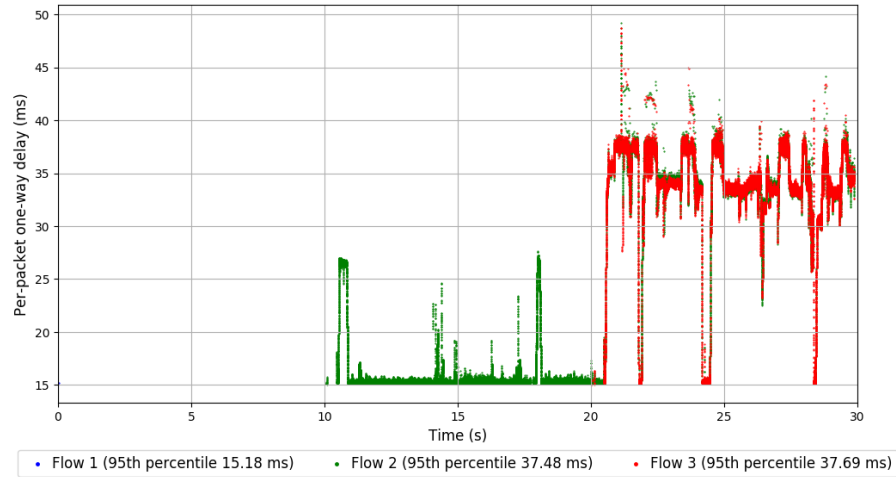
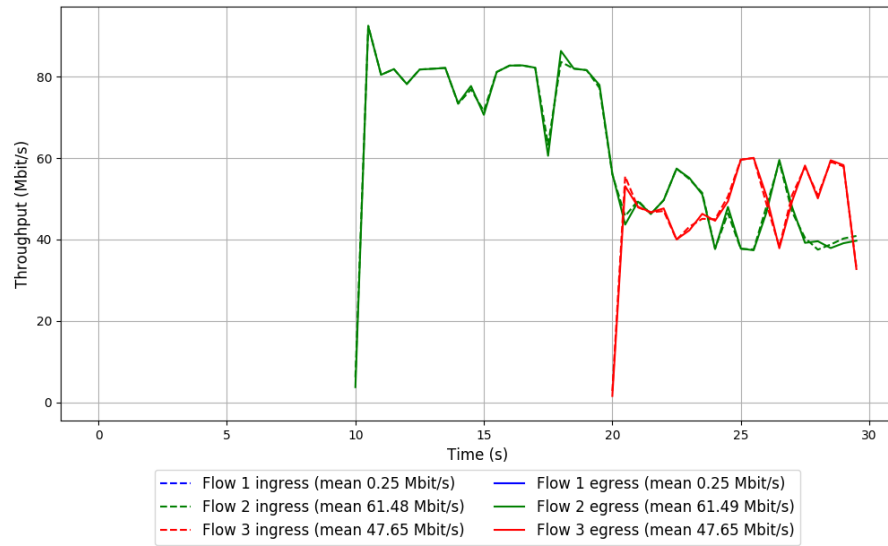
Average throughput: 47.65 Mbit/s

95th percentile per-packet one-way delay: 37.688 ms

Loss rate: 0.43%



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



Run 3: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 05:37:11 +0000

End at: Tue, 01 Aug 2017 05:37:41 +0000

Local clock offset: -1.596 ms

Remote clock offset: -5.506 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.97 Mbit/s

95th percentile per-packet one-way delay: 37.019 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 14.653 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 36.988 ms

Loss rate: 0.21%

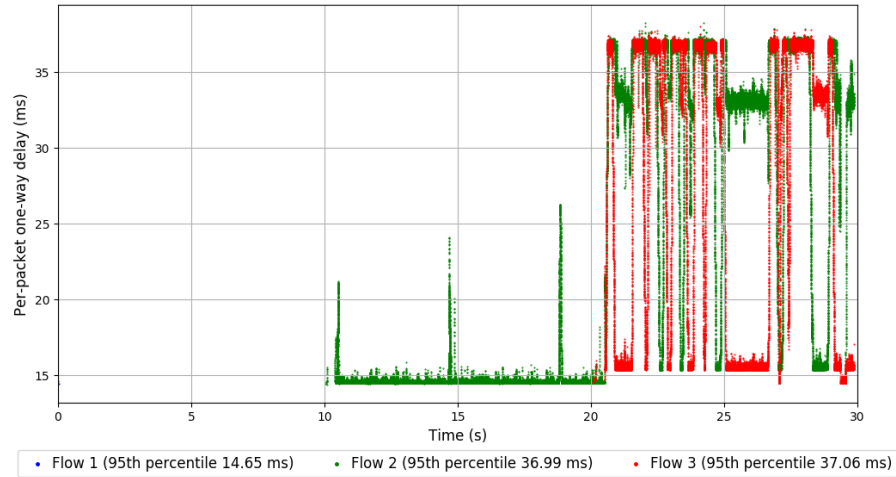
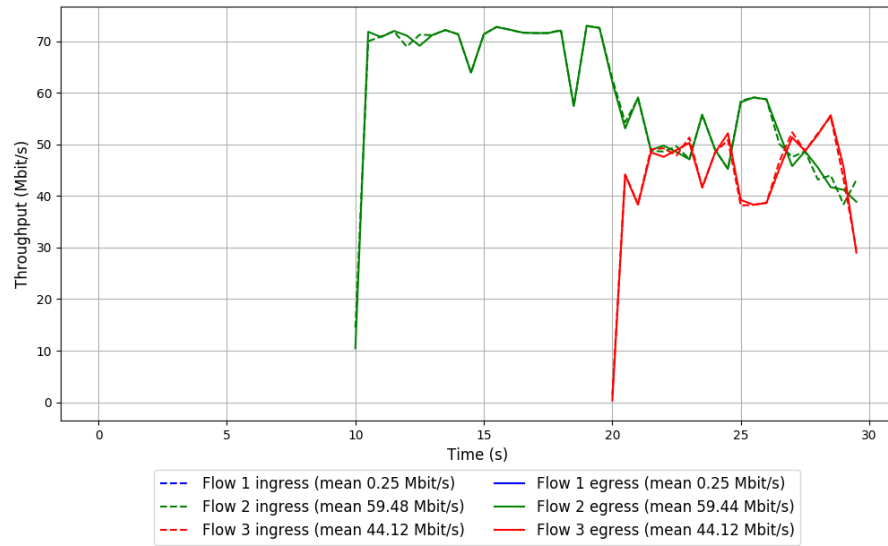
-- Flow 3:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 37.060 ms

Loss rate: 0.21%

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



Run 4: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 05:55:27 +0000

End at: Tue, 01 Aug 2017 05:55:57 +0000

Local clock offset: -0.686 ms

Remote clock offset: -5.136 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:28 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 37.514 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 15.603 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.23 Mbit/s

95th percentile per-packet one-way delay: 37.319 ms

Loss rate: 0.19%

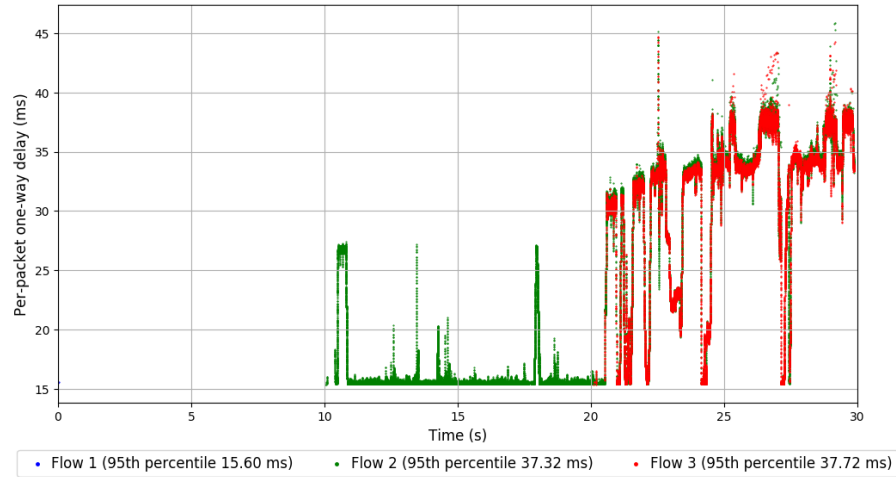
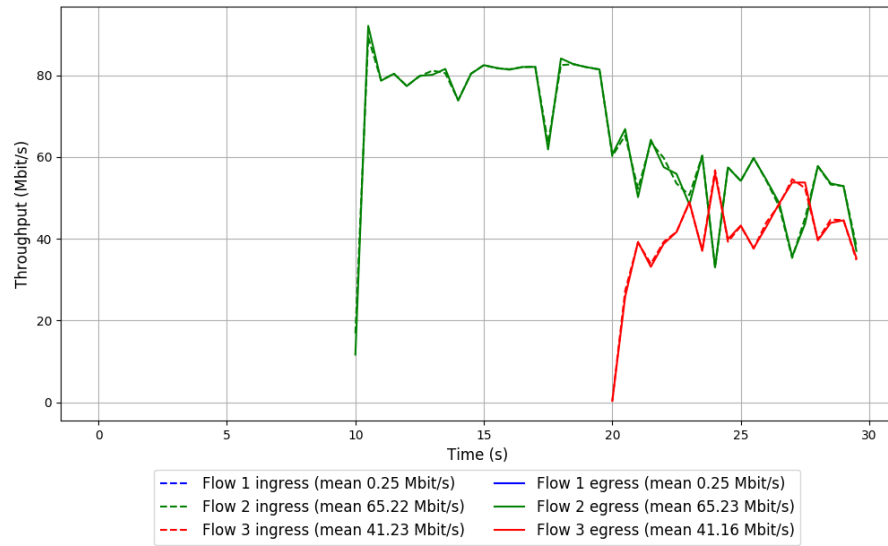
-- Flow 3:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 37.720 ms

Loss rate: 0.40%

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



Run 5: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 06:13:40 +0000

End at: Tue, 01 Aug 2017 06:14:10 +0000

Local clock offset: -0.293 ms

Remote clock offset: -2.778 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 36.187 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 13.885 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 36.028 ms

Loss rate: 0.04%

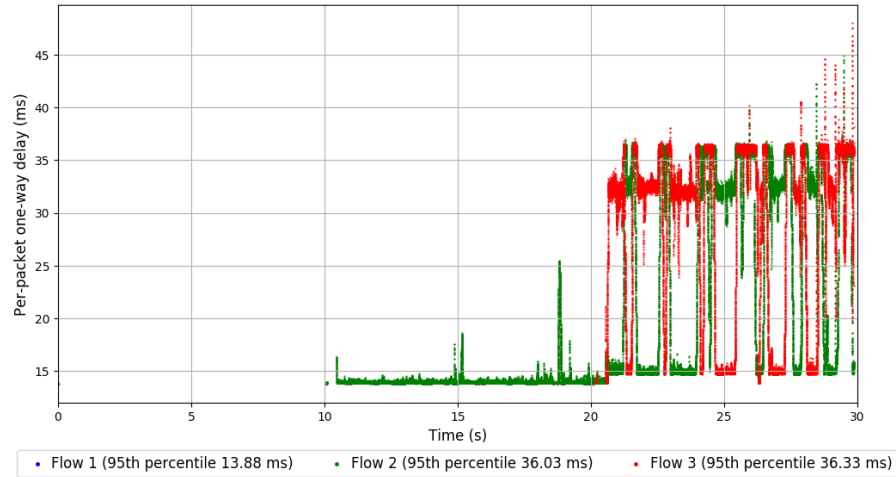
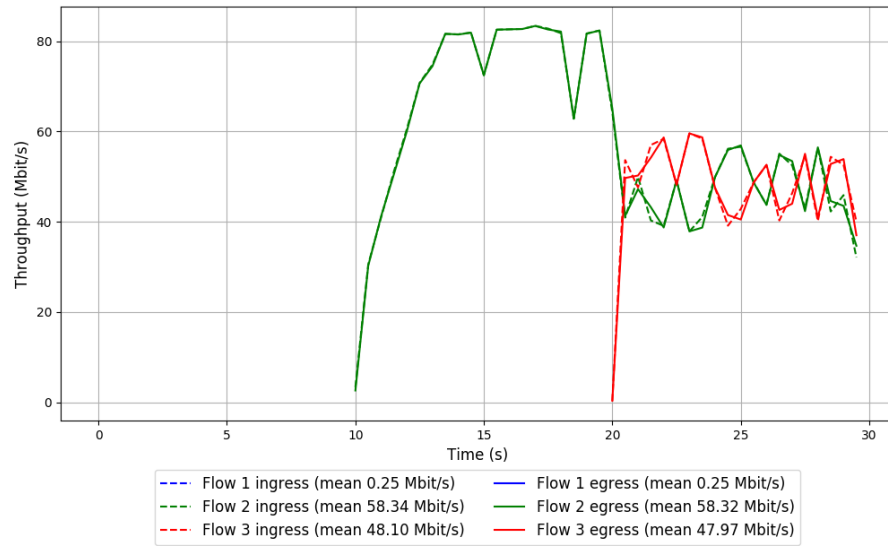
-- Flow 3:

Average throughput: 47.97 Mbit/s

95th percentile per-packet one-way delay: 36.332 ms

Loss rate: 0.60%

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



Run 6: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 06:31:32 +0000

End at: Tue, 01 Aug 2017 06:32:02 +0000

Local clock offset: 0.149 ms

Remote clock offset: -2.882 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 38.020 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 15.874 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.44 Mbit/s

95th percentile per-packet one-way delay: 37.965 ms

Loss rate: 0.24%

-- Flow 3:

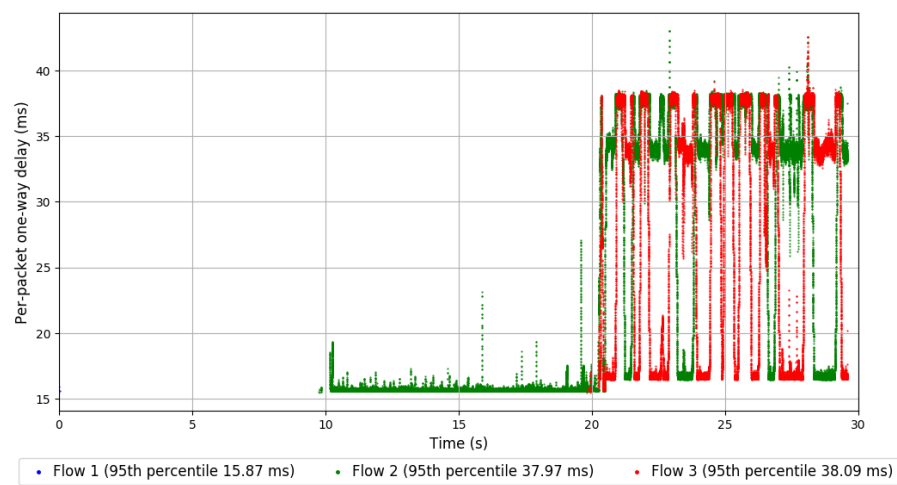
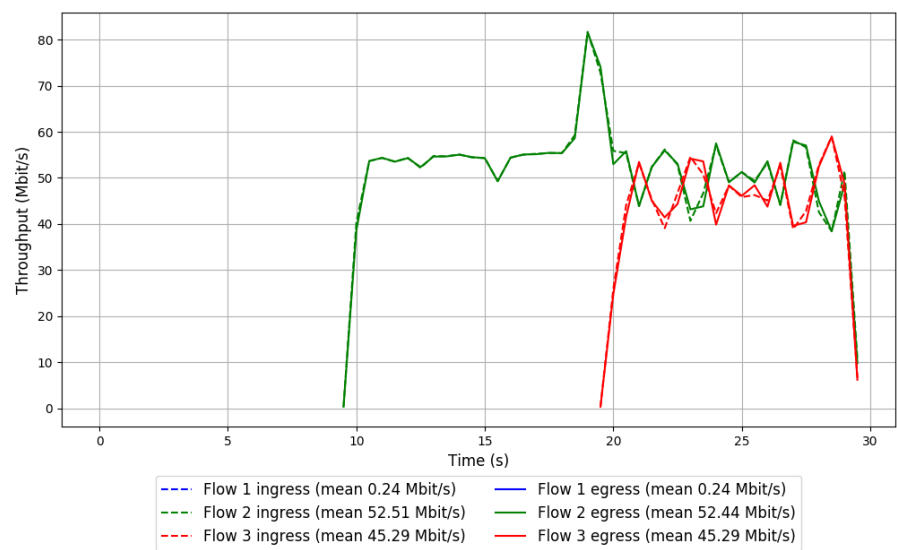
Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: 38.094 ms

Loss rate: 0.20%



Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 06:49:50 +0000

End at: Tue, 01 Aug 2017 06:50:20 +0000

Local clock offset: -1.339 ms

Remote clock offset: -2.961 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:44 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 35.446 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 13.247 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 35.298 ms

Loss rate: 0.24%

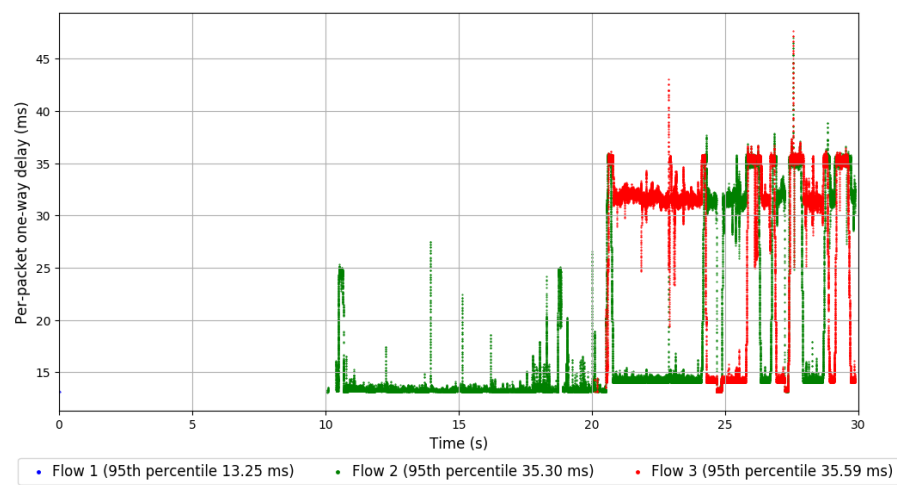
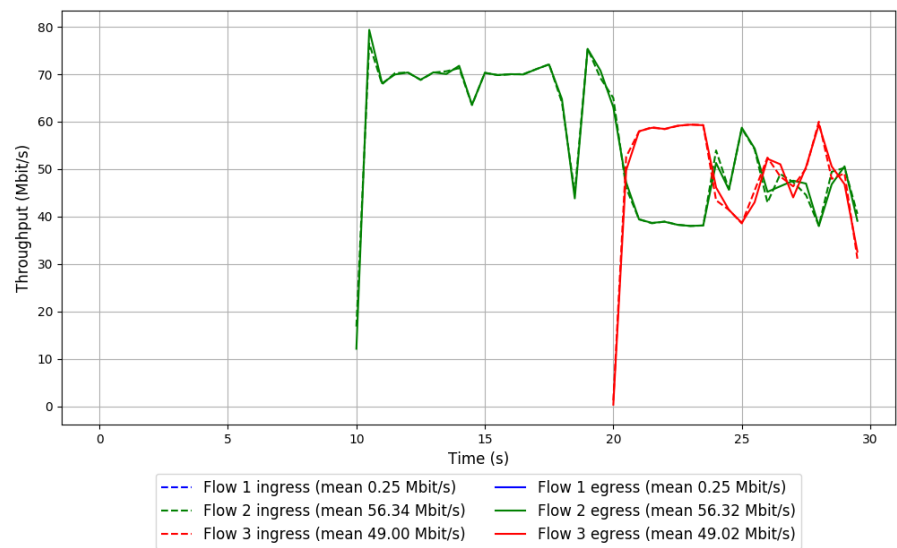
-- Flow 3:

Average throughput: 49.02 Mbit/s

95th percentile per-packet one-way delay: 35.592 ms

Loss rate: 0.20%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 07:07:50 +0000

End at: Tue, 01 Aug 2017 07:08:20 +0000

Local clock offset: -0.381 ms

Remote clock offset: -4.842 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:44 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.73 Mbit/s

95th percentile per-packet one-way delay: 38.285 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 16.147 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.91 Mbit/s

95th percentile per-packet one-way delay: 37.053 ms

Loss rate: 0.09%

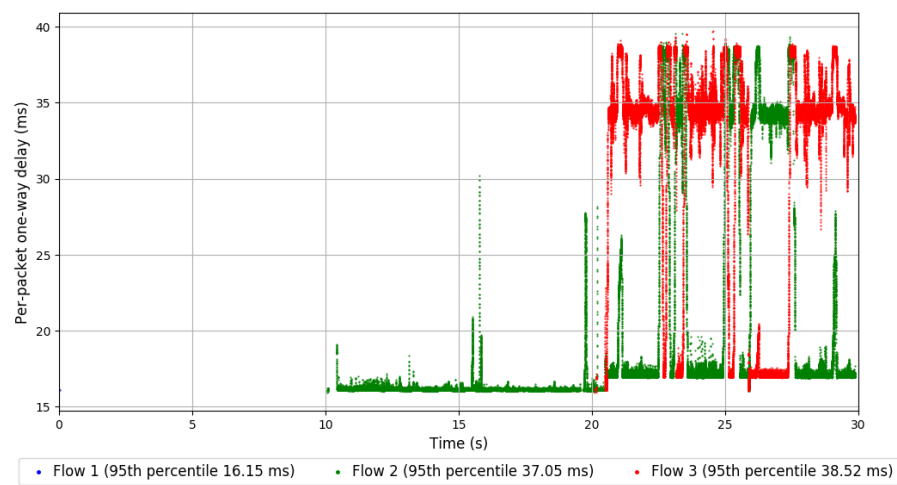
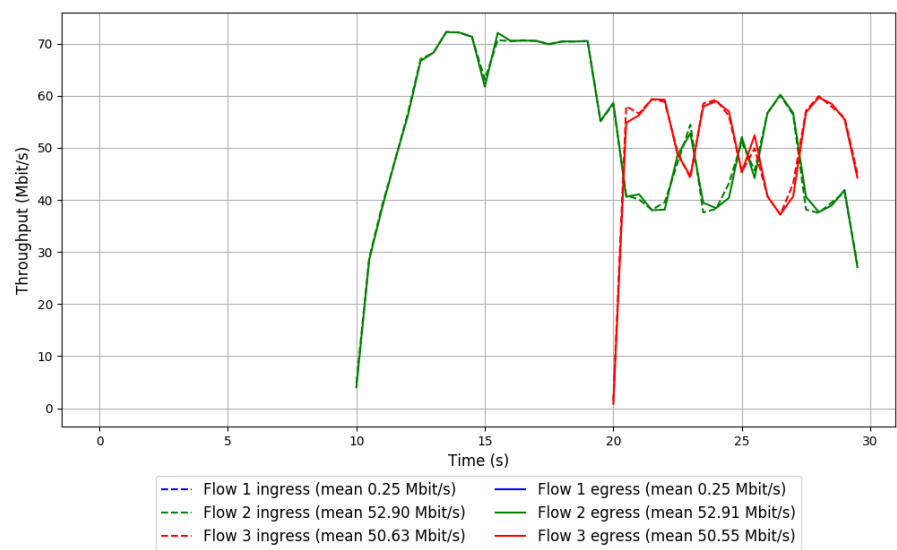
-- Flow 3:

Average throughput: 50.55 Mbit/s

95th percentile per-packet one-way delay: 38.523 ms

Loss rate: 0.50%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 07:26:05 +0000

End at: Tue, 01 Aug 2017 07:26:35 +0000

Local clock offset: -0.903 ms

Remote clock offset: -4.967 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.50 Mbit/s

95th percentile per-packet one-way delay: 37.525 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 15.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 37.509 ms

Loss rate: 0.18%

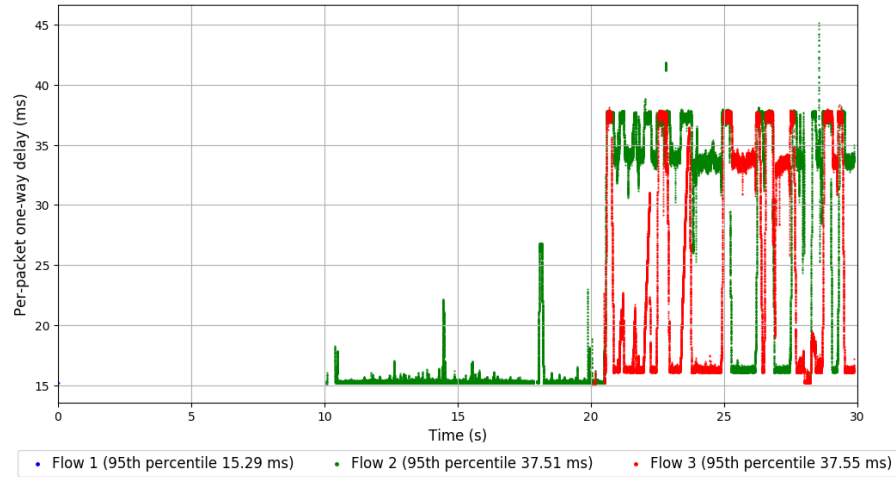
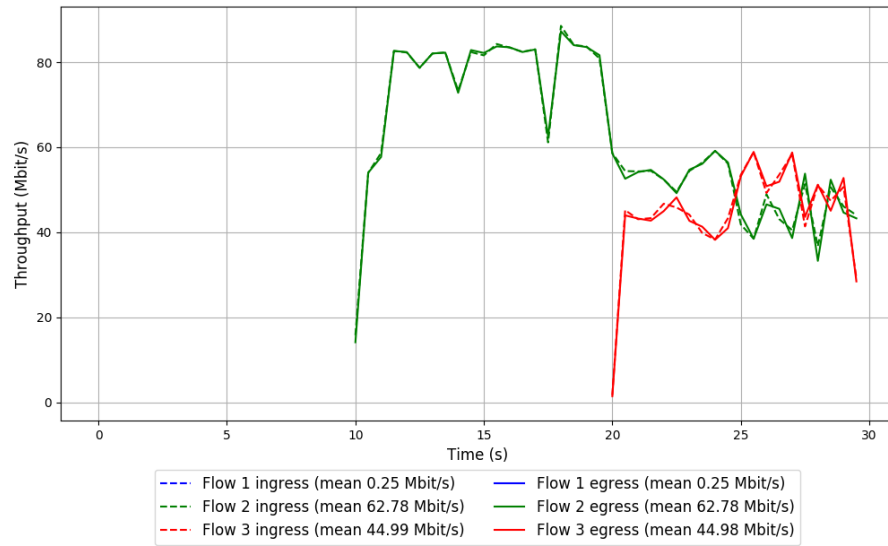
-- Flow 3:

Average throughput: 44.98 Mbit/s

95th percentile per-packet one-way delay: 37.550 ms

Loss rate: 0.26%

# Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 07:44:04 +0000

End at: Tue, 01 Aug 2017 07:44:34 +0000

Local clock offset: -2.898 ms

Remote clock offset: -6.07 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:43:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 42.844 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 13.683 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.22 Mbit/s

95th percentile per-packet one-way delay: 42.654 ms

Loss rate: 0.67%

-- Flow 3:

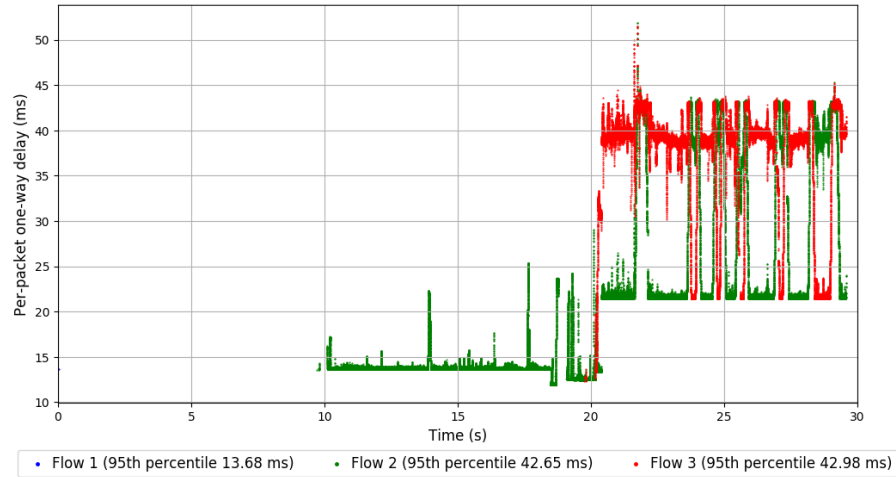
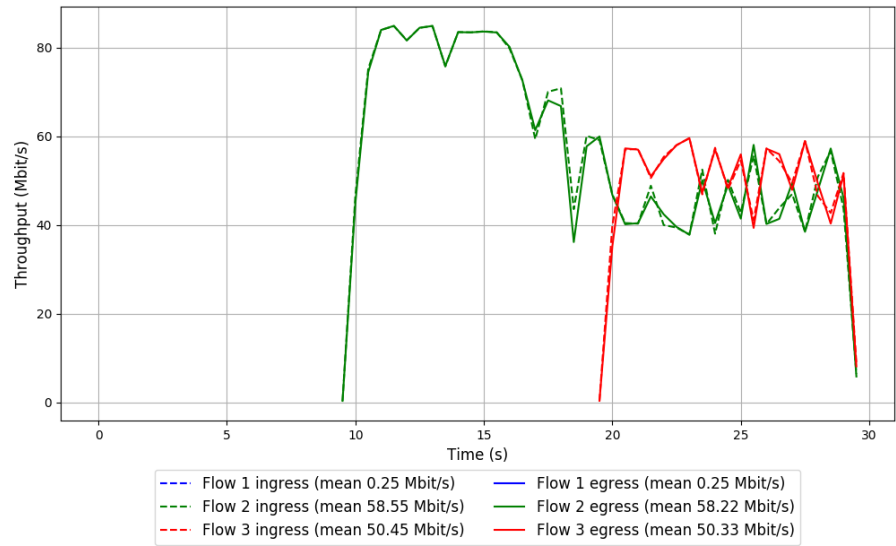
Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 42.980 ms

Loss rate: 0.53%



# Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Tue, 01 Aug 2017 04:44:12 +0000

End at: Tue, 01 Aug 2017 04:44:42 +0000

Local clock offset: -0.671 ms

Remote clock offset: -3.16 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:04 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 59.680 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 59.642 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 36.53 Mbit/s

95th percentile per-packet one-way delay: 59.816 ms

Loss rate: 0.33%

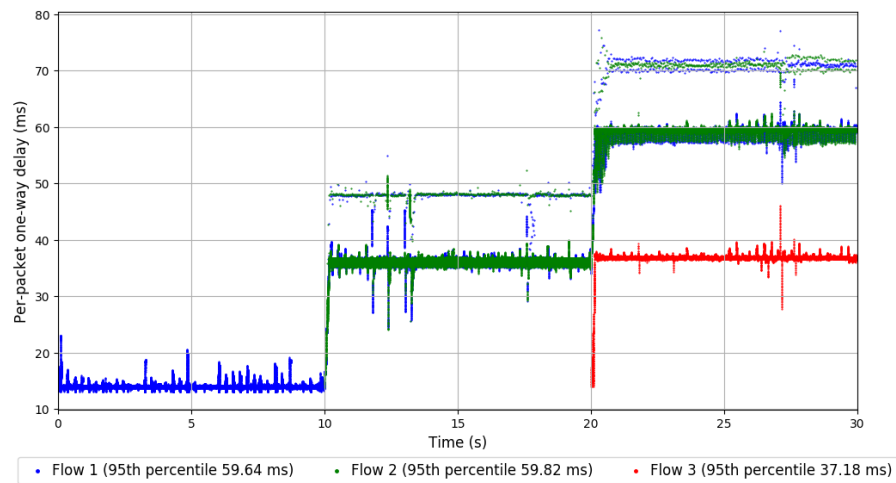
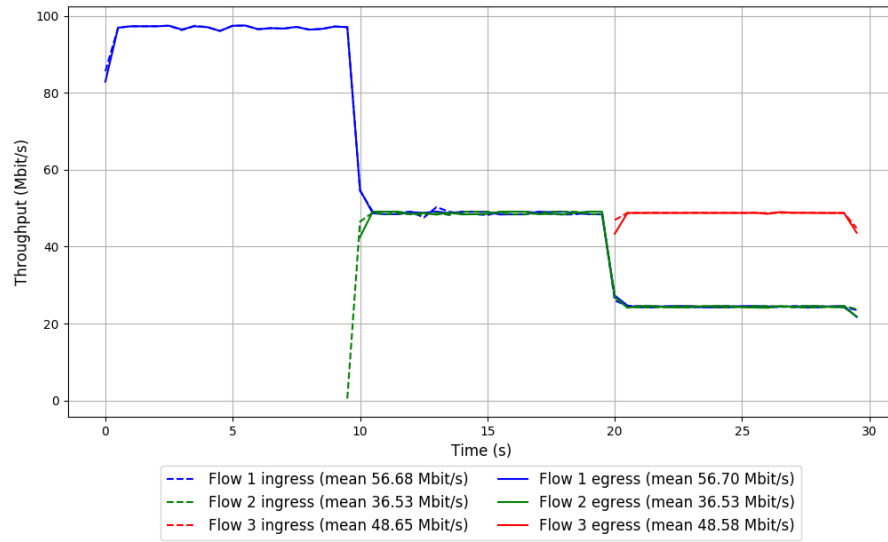
-- Flow 3:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 37.179 ms

Loss rate: 0.49%

## Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Tue, 01 Aug 2017 05:03:06 +0000

End at: Tue, 01 Aug 2017 05:03:36 +0000

Local clock offset: 0.256 ms

Remote clock offset: -3.299 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:04 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 60.665 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 52.53 Mbit/s

95th percentile per-packet one-way delay: 60.645 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 60.761 ms

Loss rate: 0.24%

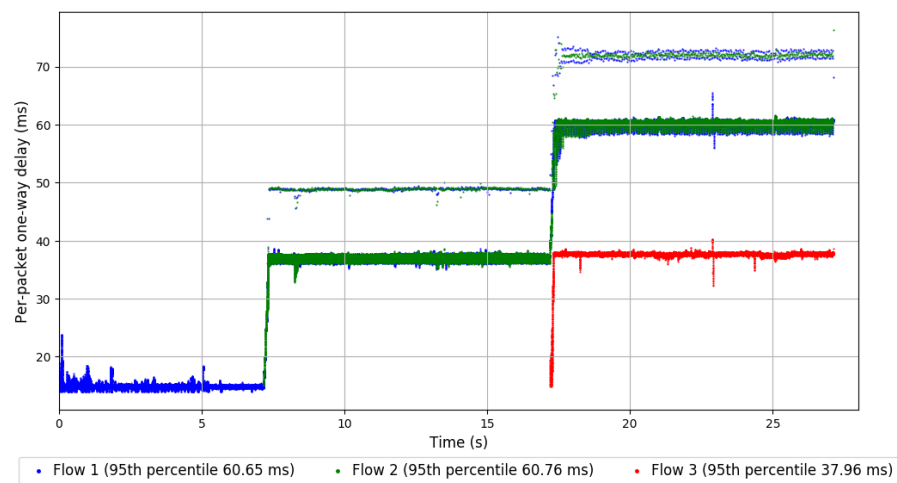
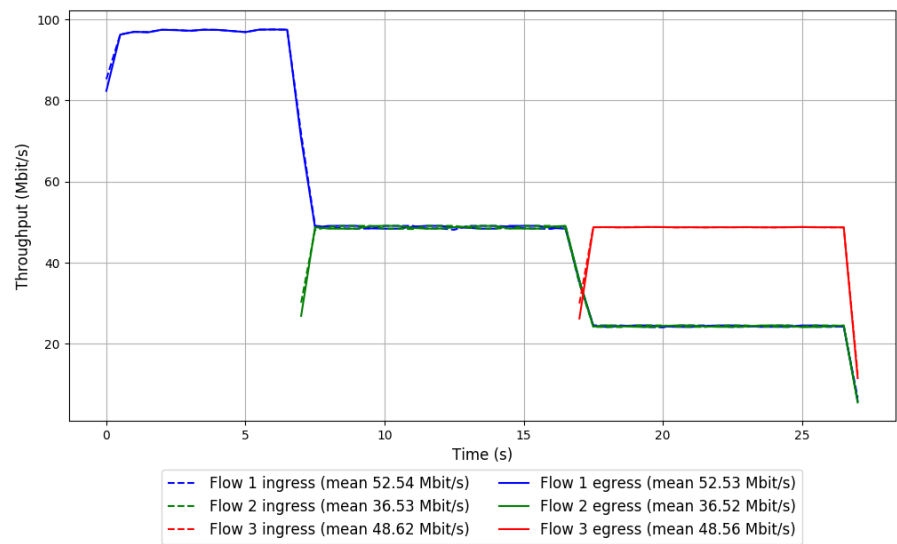
-- Flow 3:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 37.957 ms

Loss rate: 0.48%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Tue, 01 Aug 2017 05:21:10 +0000

End at: Tue, 01 Aug 2017 05:21:40 +0000

Local clock offset: -0.026 ms

Remote clock offset: -4.199 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:15 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 50.127 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 57.49 Mbit/s

95th percentile per-packet one-way delay: 50.075 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 40.58 Mbit/s

95th percentile per-packet one-way delay: 50.113 ms

Loss rate: 0.29%

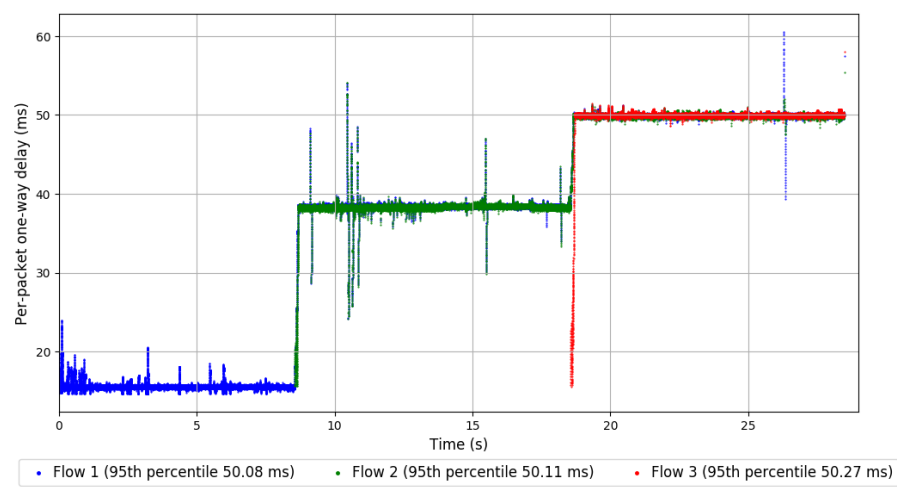
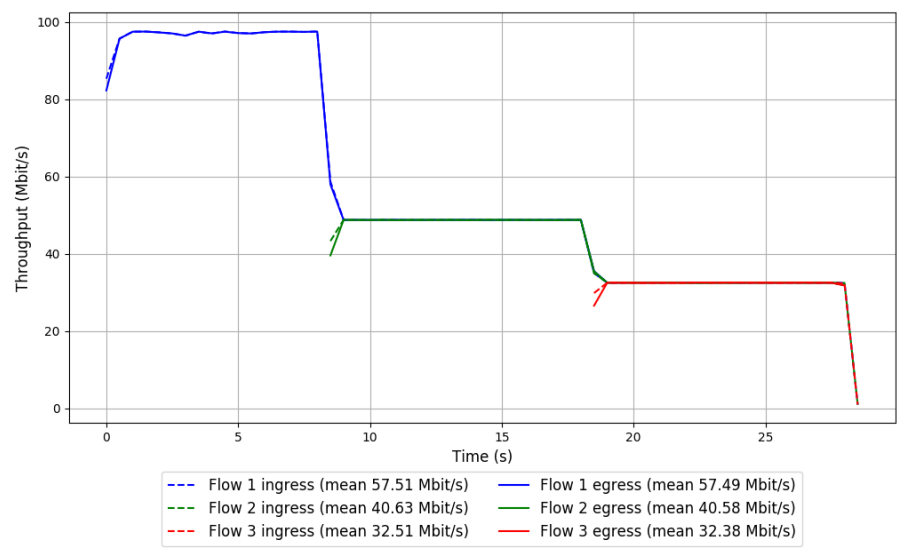
-- Flow 3:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 50.268 ms

Loss rate: 0.74%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Tue, 01 Aug 2017 05:39:34 +0000

End at: Tue, 01 Aug 2017 05:40:04 +0000

Local clock offset: 2.544 ms

Remote clock offset: -5.835 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:15 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.38 Mbit/s

95th percentile per-packet one-way delay: 42.703 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 733.94 Mbit/s

95th percentile per-packet one-way delay: 2083.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 42.655 ms

Loss rate: 0.16%

-- Flow 3:

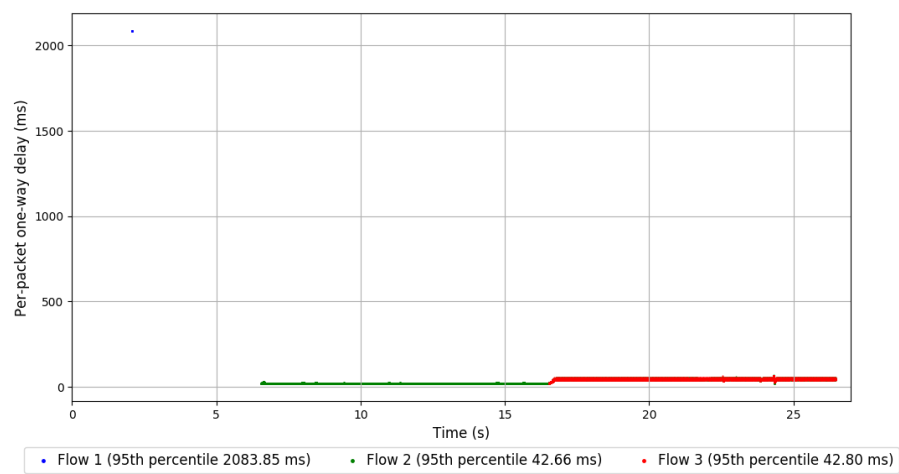
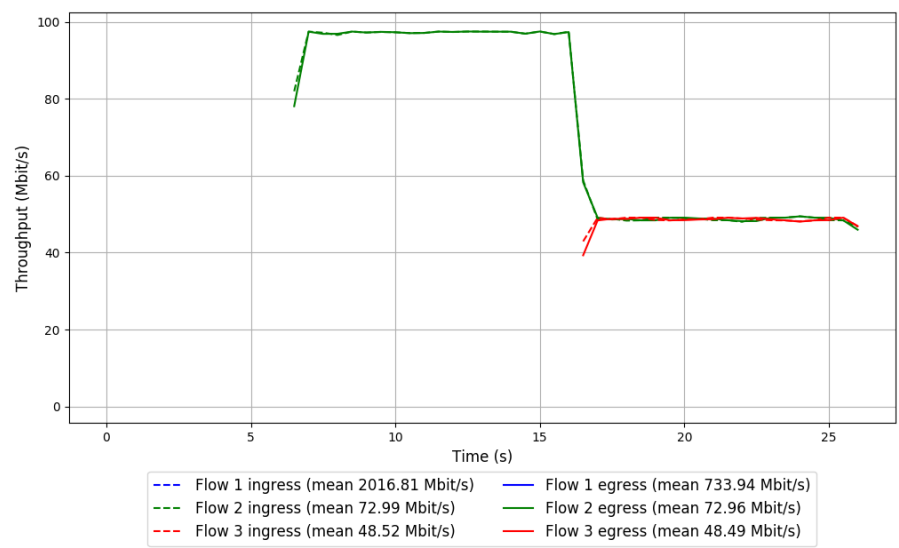
Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 42.801 ms

Loss rate: 0.47%



Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Tue, 01 Aug 2017 05:57:47 +0000

End at: Tue, 01 Aug 2017 05:58:17 +0000

Local clock offset: 0.479 ms

Remote clock offset: -2.928 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:24 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 49.929 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 52.84 Mbit/s

95th percentile per-packet one-way delay: 49.891 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 40.57 Mbit/s

95th percentile per-packet one-way delay: 49.942 ms

Loss rate: 0.29%

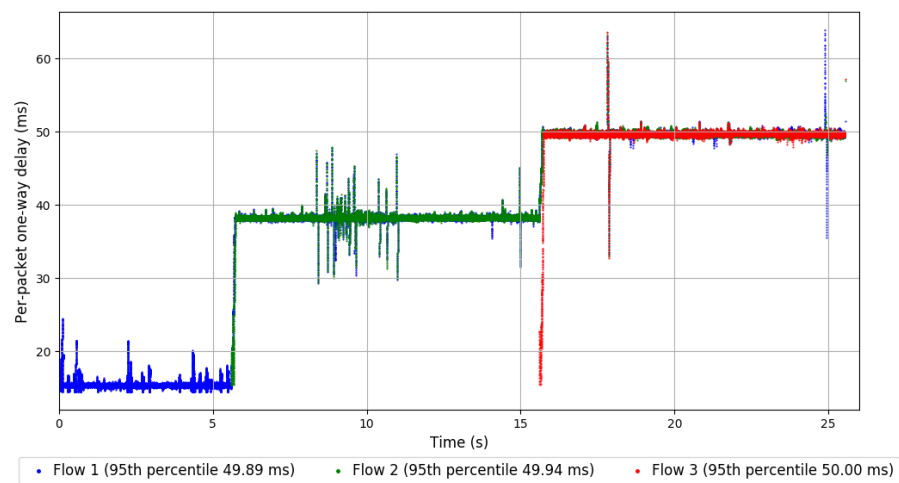
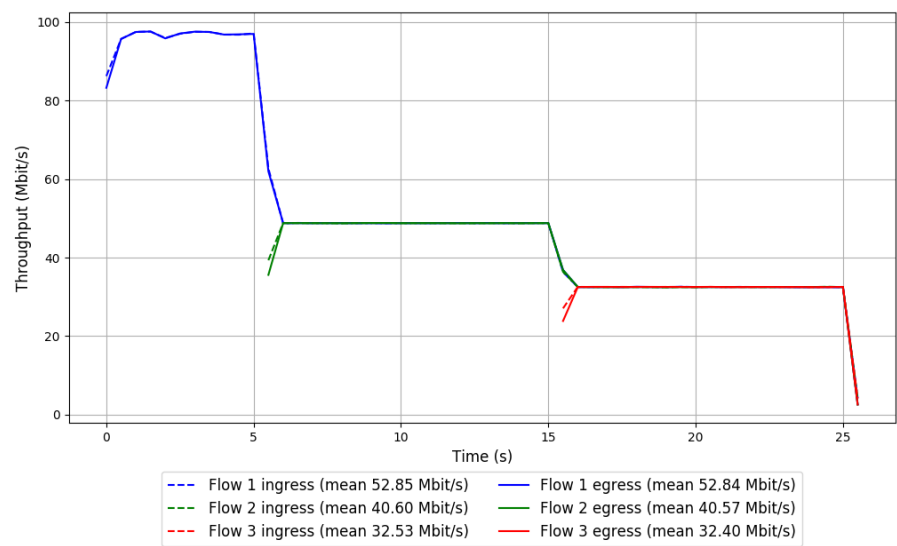
-- Flow 3:

Average throughput: 32.40 Mbit/s

95th percentile per-packet one-way delay: 49.998 ms

Loss rate: 0.74%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

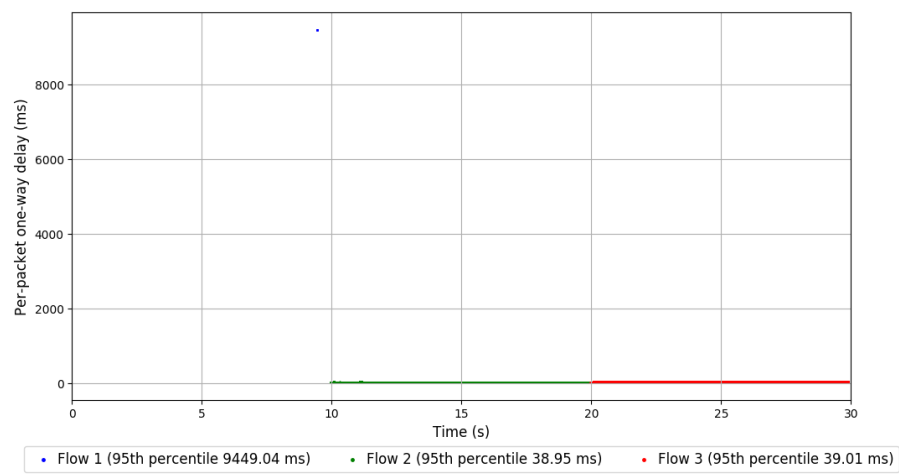
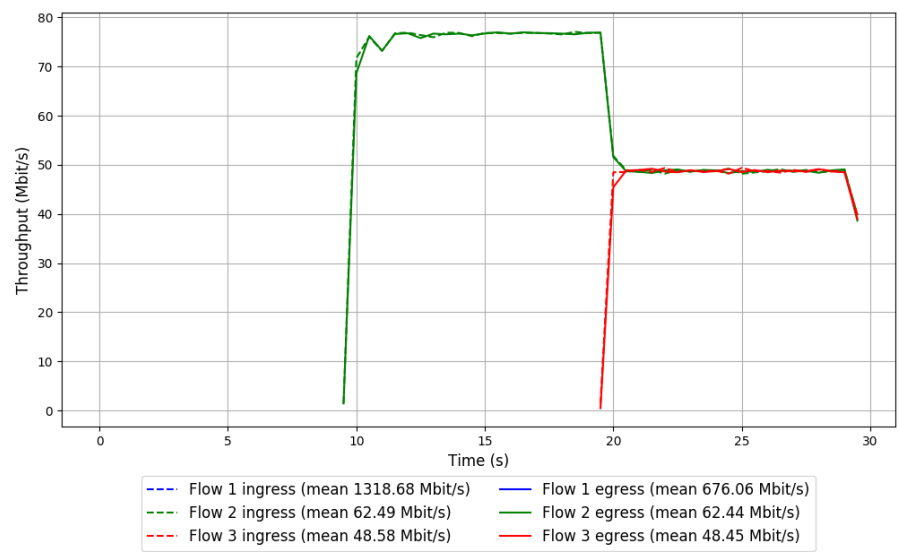
Start at: Tue, 01 Aug 2017 06:15:59 +0000

End at: Tue, 01 Aug 2017 06:16:29 +0000

Local clock offset: -0.201 ms

Remote clock offset: -2.172 ms

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Tue, 01 Aug 2017 06:33:54 +0000

End at: Tue, 01 Aug 2017 06:34:24 +0000

Local clock offset: 0.001 ms

Remote clock offset: -4.119 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:36 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 52.204 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 58.60 Mbit/s

95th percentile per-packet one-way delay: 52.142 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.59 Mbit/s

95th percentile per-packet one-way delay: 52.229 ms

Loss rate: 0.24%

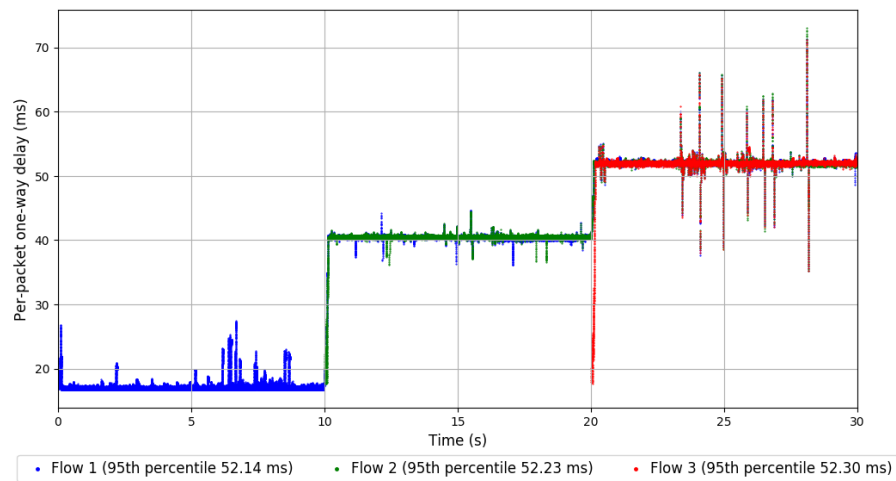
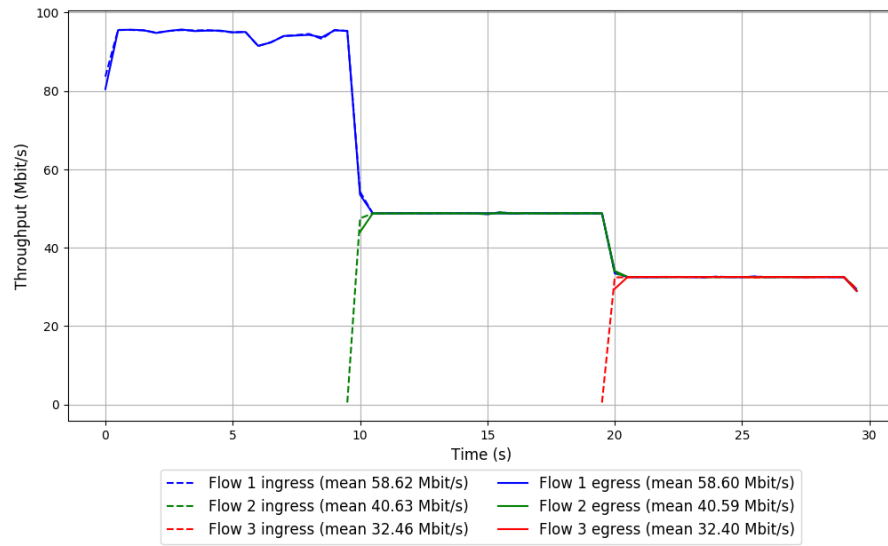
-- Flow 3:

Average throughput: 32.40 Mbit/s

95th percentile per-packet one-way delay: 52.305 ms

Loss rate: 0.59%

# Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Tue, 01 Aug 2017 06:52:16 +0000

End at: Tue, 01 Aug 2017 06:52:46 +0000

Local clock offset: -2.486 ms

Remote clock offset: -5.577 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:36 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.07 Mbit/s

95th percentile per-packet one-way delay: 38.603 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 761.90 Mbit/s

95th percentile per-packet one-way delay: 1581.415 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 38.445 ms

Loss rate: 0.16%

-- Flow 3:

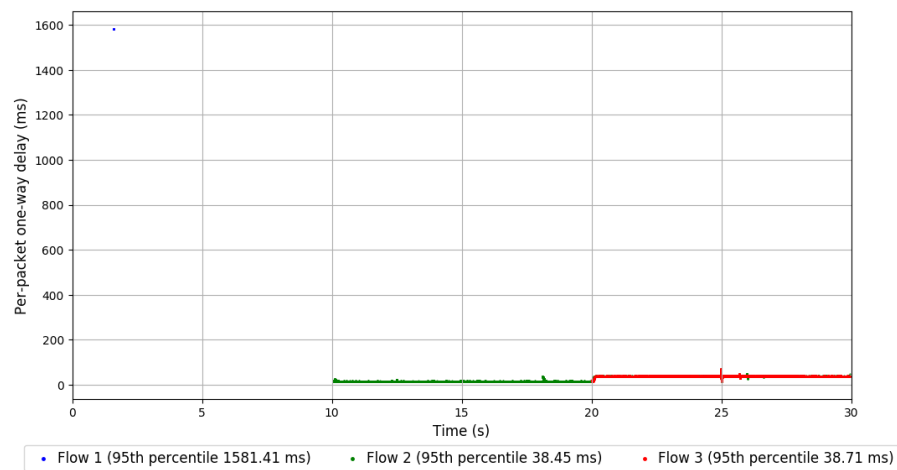
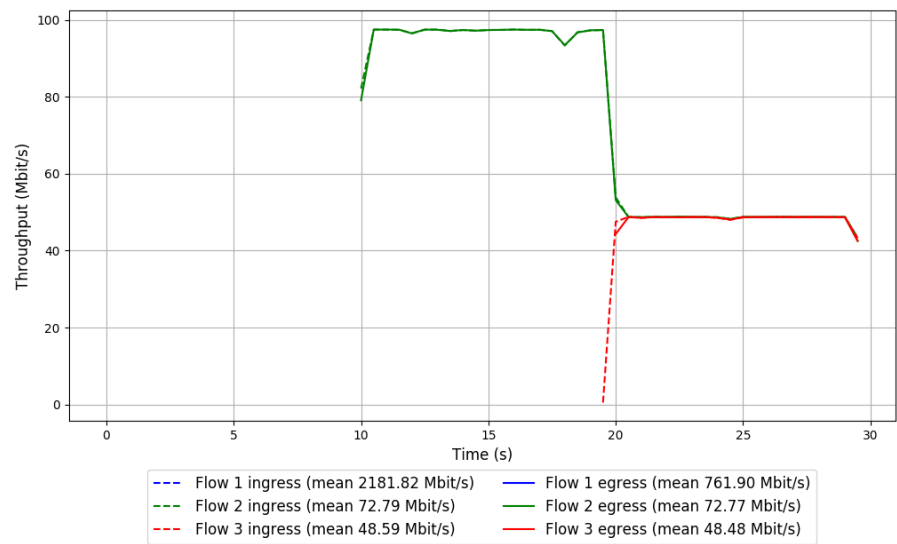
Average throughput: 48.48 Mbit/s

95th percentile per-packet one-way delay: 38.709 ms

Loss rate: 0.47%



Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Tue, 01 Aug 2017 07:10:11 +0000

End at: Tue, 01 Aug 2017 07:10:41 +0000

Local clock offset: -0.443 ms

Remote clock offset: -5.354 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:43 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 63.087 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 40.249 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 36.60 Mbit/s

95th percentile per-packet one-way delay: 63.173 ms

Loss rate: 0.33%

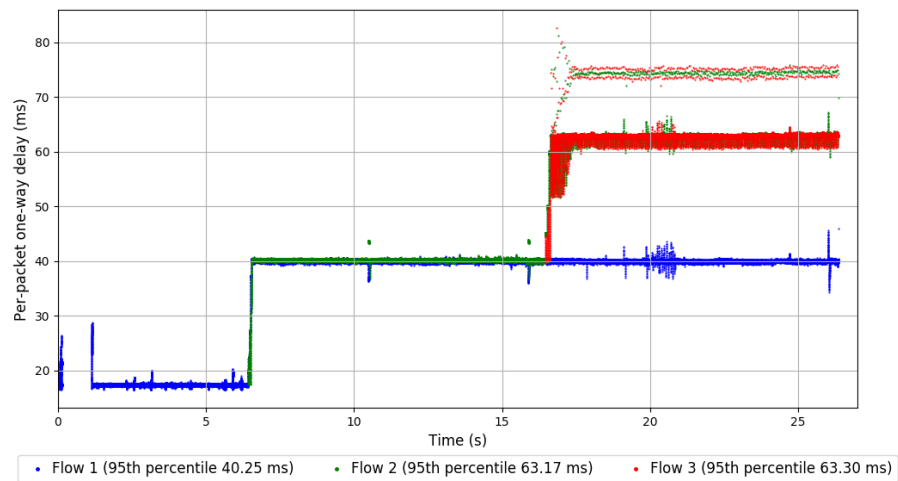
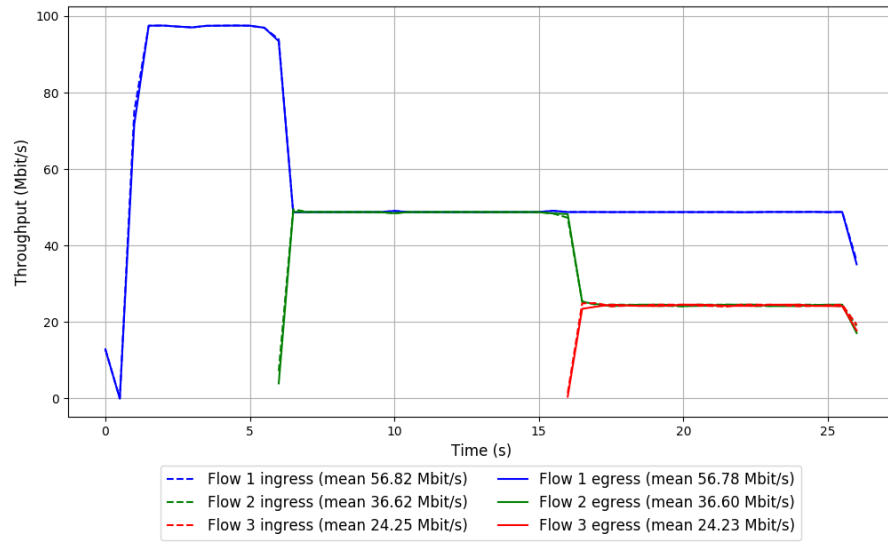
-- Flow 3:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 63.302 ms

Loss rate: 0.99%

## Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: Tue, 01 Aug 2017 07:28:27 +0000

End at: Tue, 01 Aug 2017 07:28:57 +0000

Local clock offset: 0.449 ms

Remote clock offset: -5.343 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 52.347 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 52.244 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 40.58 Mbit/s

95th percentile per-packet one-way delay: 52.410 ms

Loss rate: 0.24%

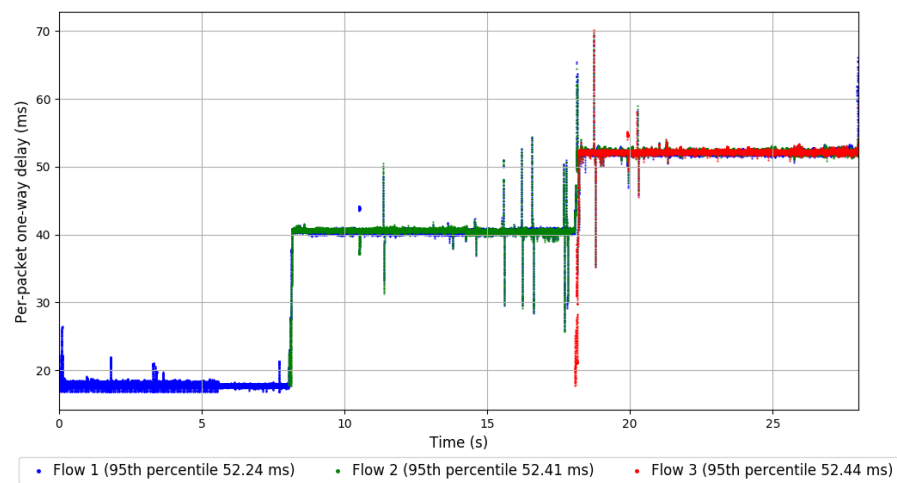
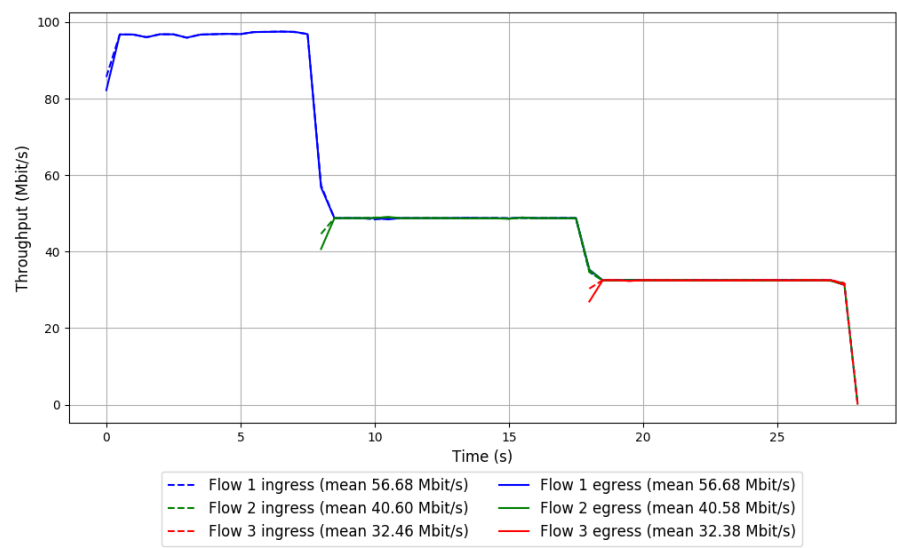
-- Flow 3:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 52.441 ms

Loss rate: 0.59%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Tue, 01 Aug 2017 04:51:01 +0000

End at: Tue, 01 Aug 2017 04:51:31 +0000

Local clock offset: 2.97 ms

Remote clock offset: -3.511 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 17.061 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 17.058 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 17.068 ms

Loss rate: 0.00%

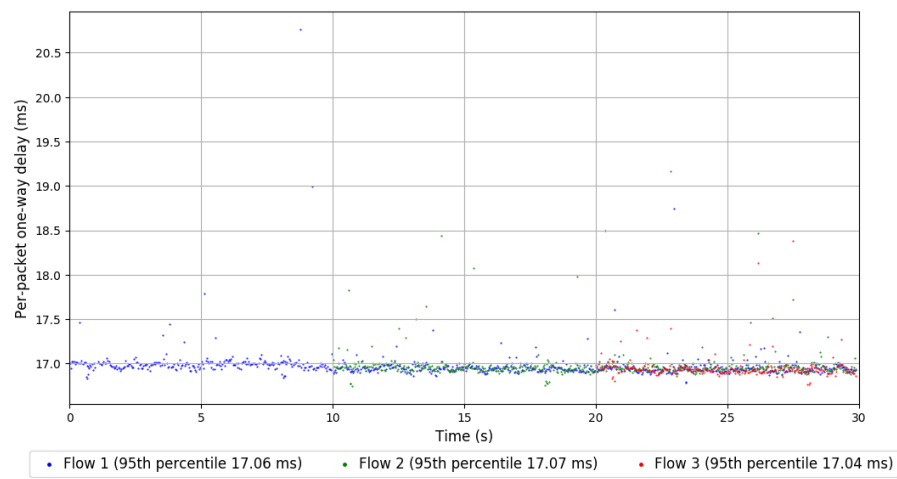
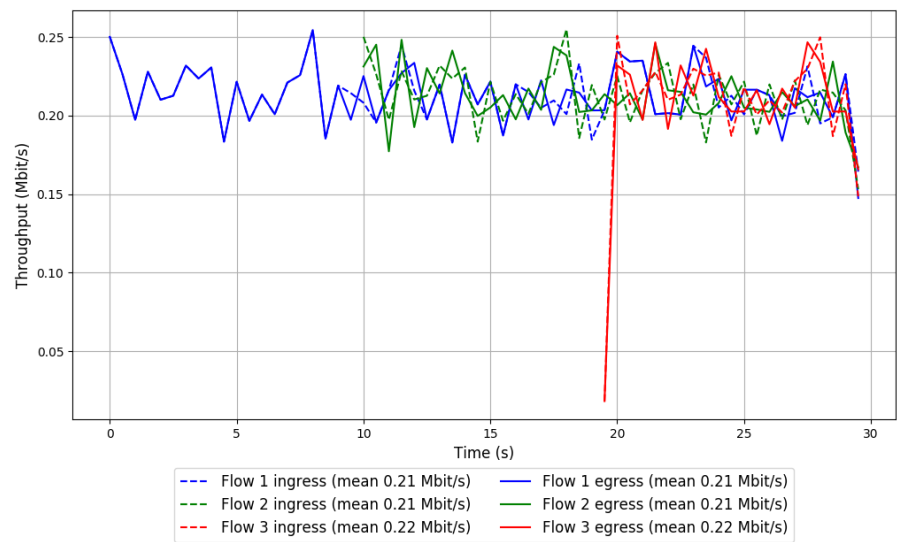
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.043 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: Tue, 01 Aug 2017 05:09:06 +0000

End at: Tue, 01 Aug 2017 05:09:36 +0000

Local clock offset: 1.25 ms

Remote clock offset: -2.305 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 14.109 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.123 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.096 ms

Loss rate: 0.19%

-- Flow 3:

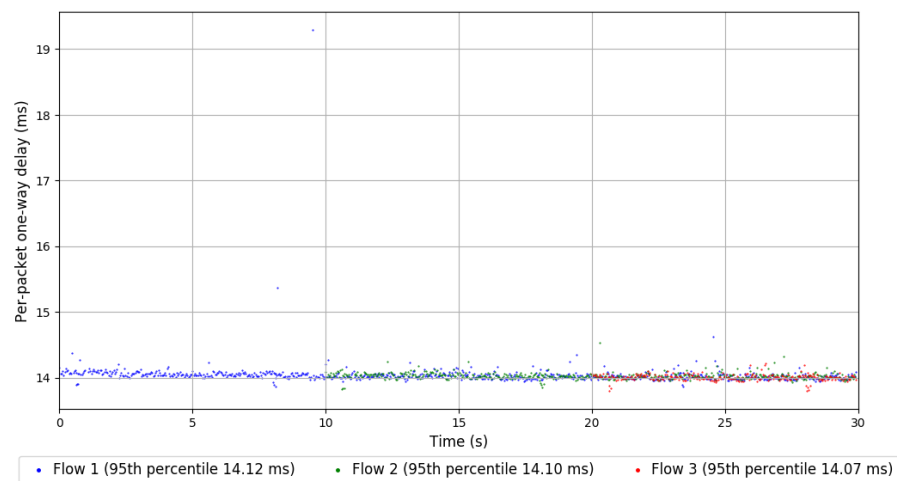
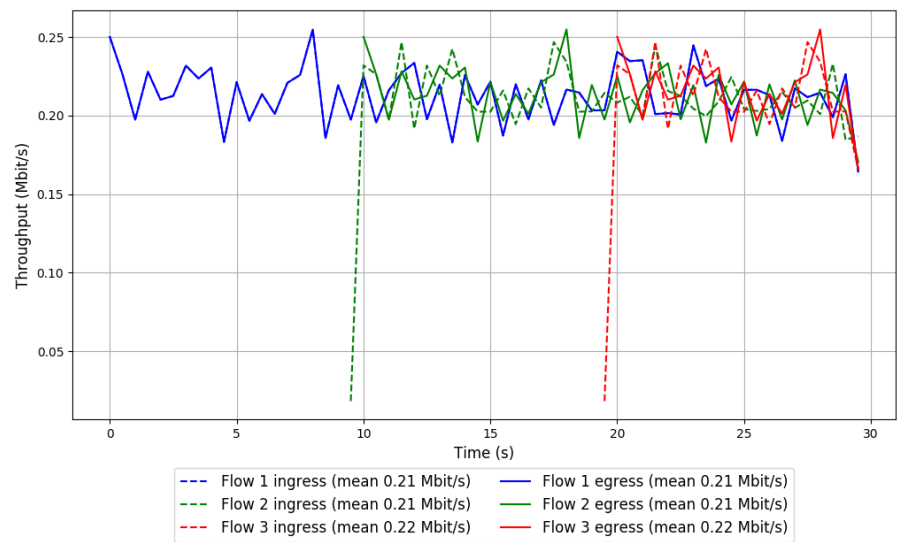
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 14.073 ms

Loss rate: 0.00%



Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: Tue, 01 Aug 2017 05:27:35 +0000

End at: Tue, 01 Aug 2017 05:28:05 +0000

Local clock offset: -0.676 ms

Remote clock offset: -4.192 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 14.272 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.281 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.253 ms

Loss rate: 0.00%

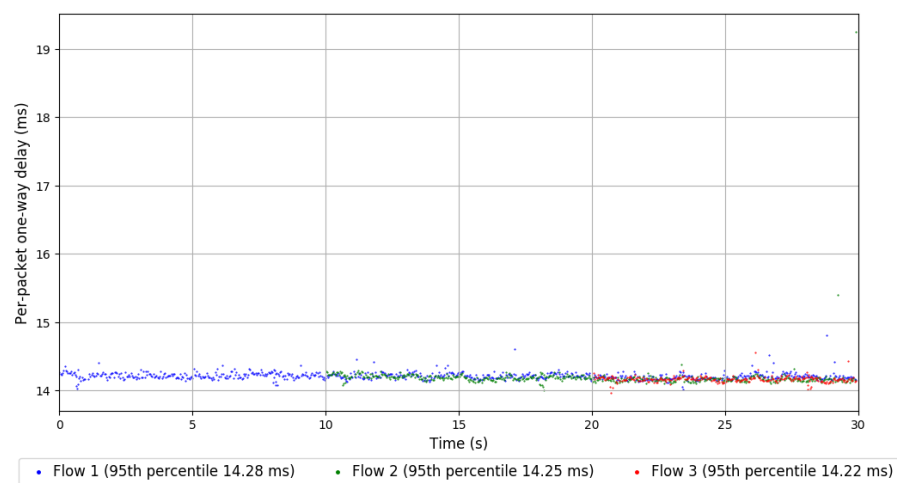
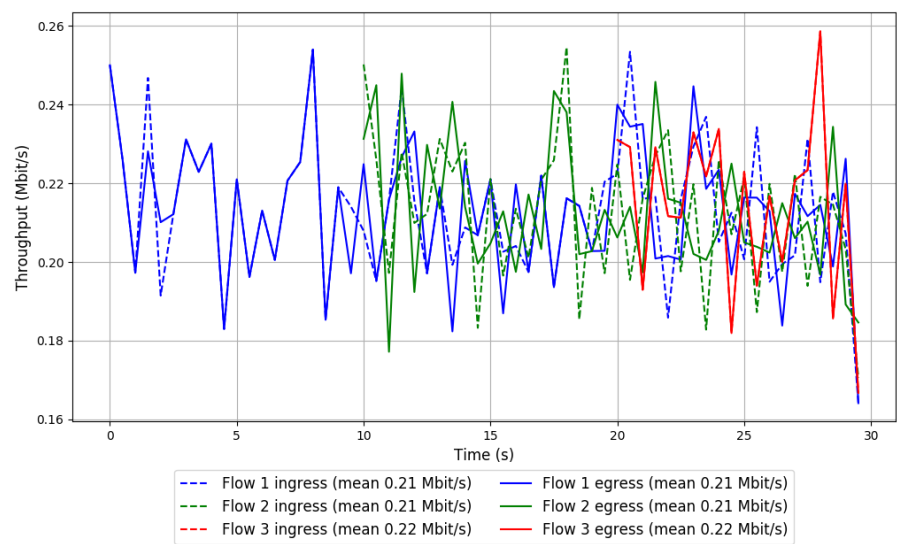
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 14.216 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: Tue, 01 Aug 2017 05:45:48 +0000

End at: Tue, 01 Aug 2017 05:46:18 +0000

Local clock offset: 2.045 ms

Remote clock offset: -5.72 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.809 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.811 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.815 ms

Loss rate: 0.20%

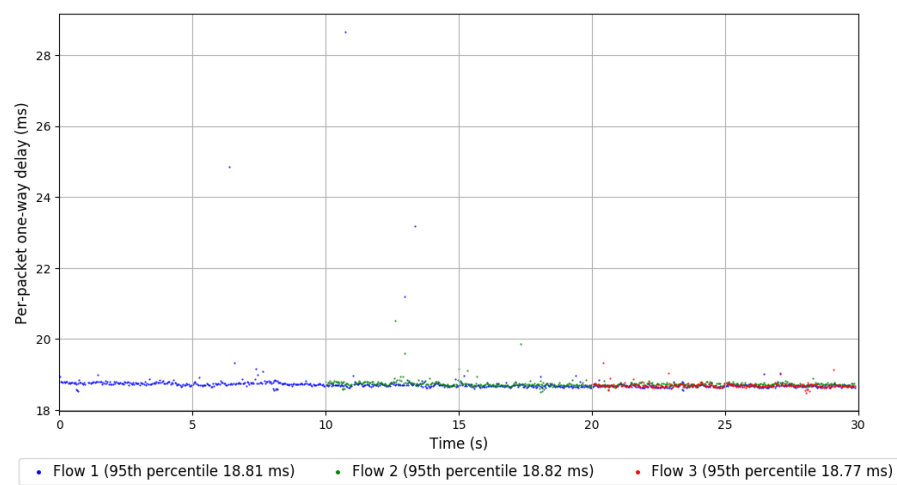
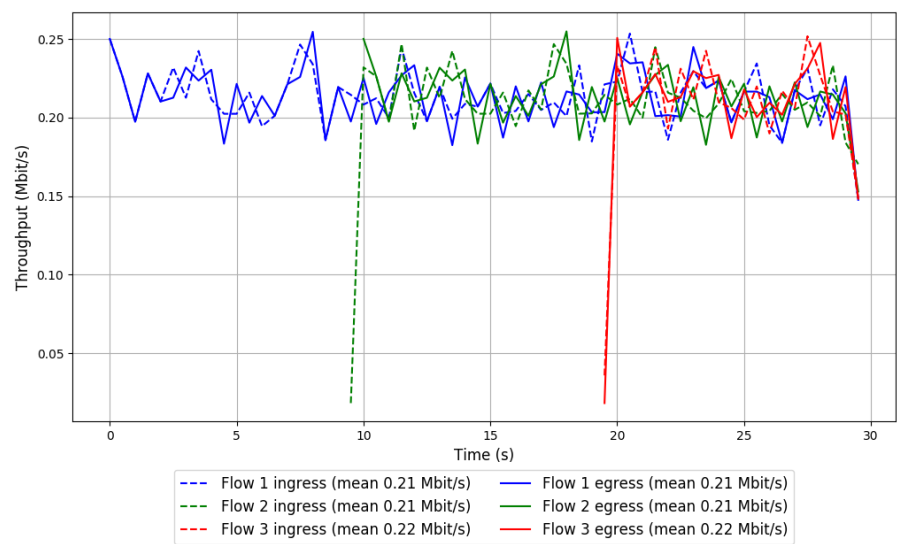
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.769 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: Tue, 01 Aug 2017 06:04:04 +0000

End at: Tue, 01 Aug 2017 06:04:34 +0000

Local clock offset: 0.532 ms

Remote clock offset: -3.25 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 15.106 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 15.110 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 15.112 ms

Loss rate: 0.20%

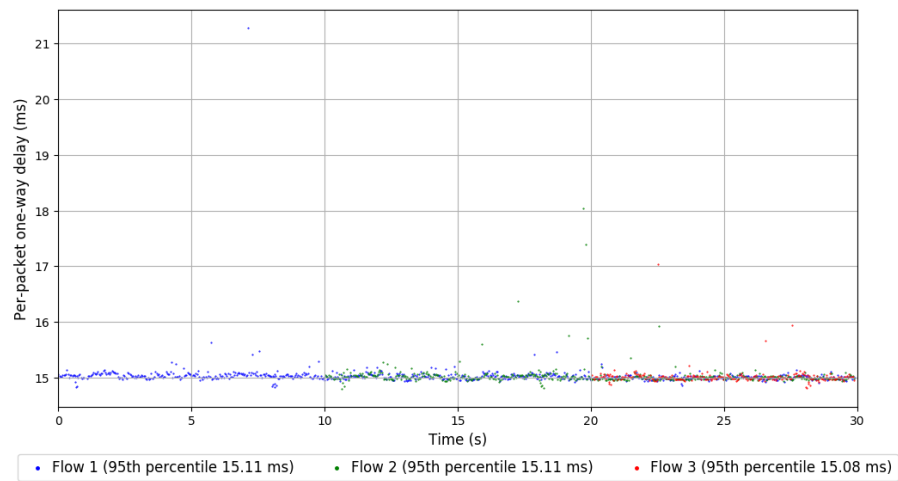
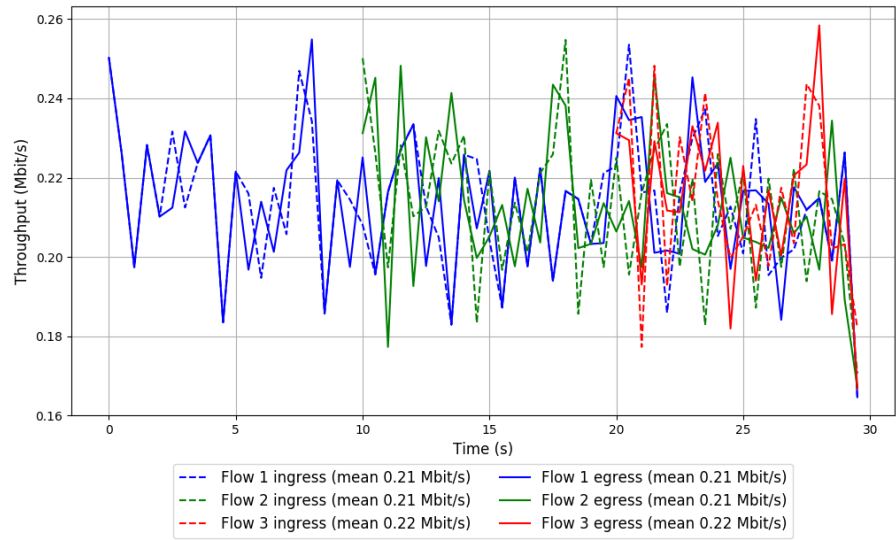
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 15.078 ms

Loss rate: 0.35%

## Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: Tue, 01 Aug 2017 06:21:58 +0000

End at: Tue, 01 Aug 2017 06:22:28 +0000

Local clock offset: -2.565 ms

Remote clock offset: -3.053 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:51 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 12.002 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.998 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.004 ms

Loss rate: 0.00%

-- Flow 3:

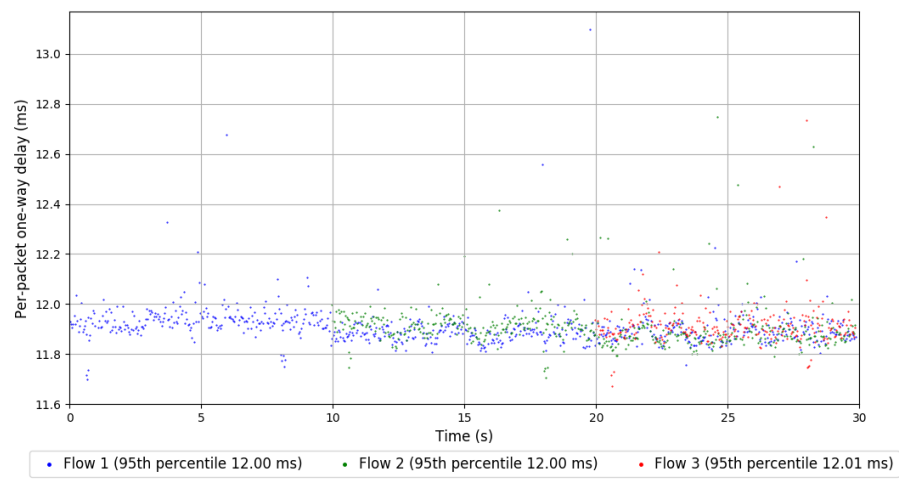
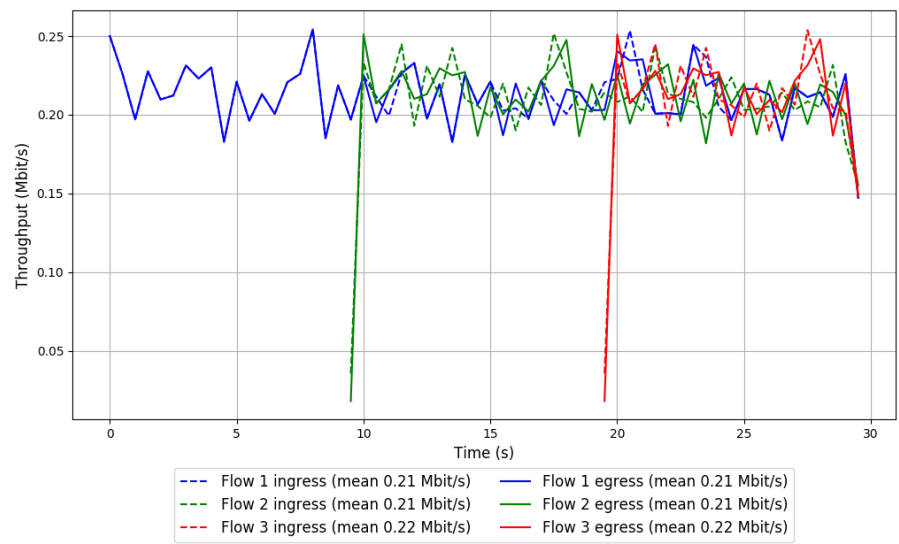
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 12.005 ms

Loss rate: 0.00%



Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: Tue, 01 Aug 2017 06:40:03 +0000

End at: Tue, 01 Aug 2017 06:40:33 +0000

Local clock offset: -0.266 ms

Remote clock offset: -3.523 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 16.084 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.092 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.065 ms

Loss rate: 0.00%

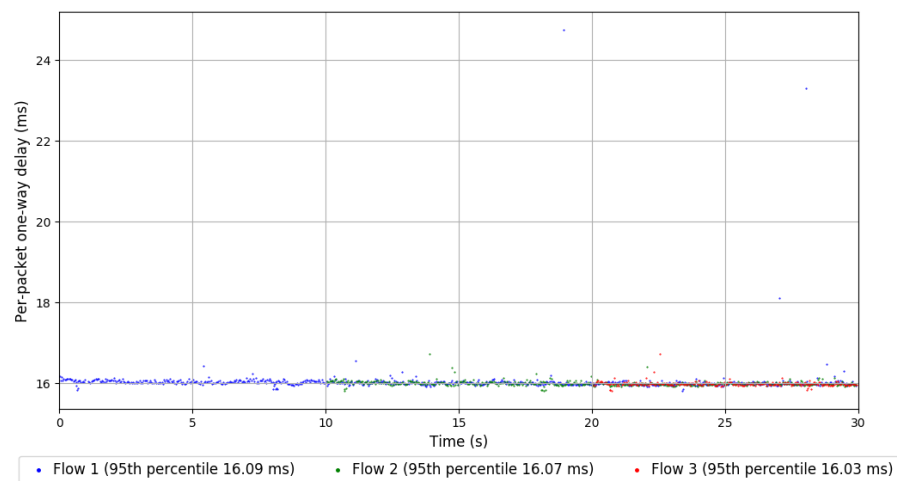
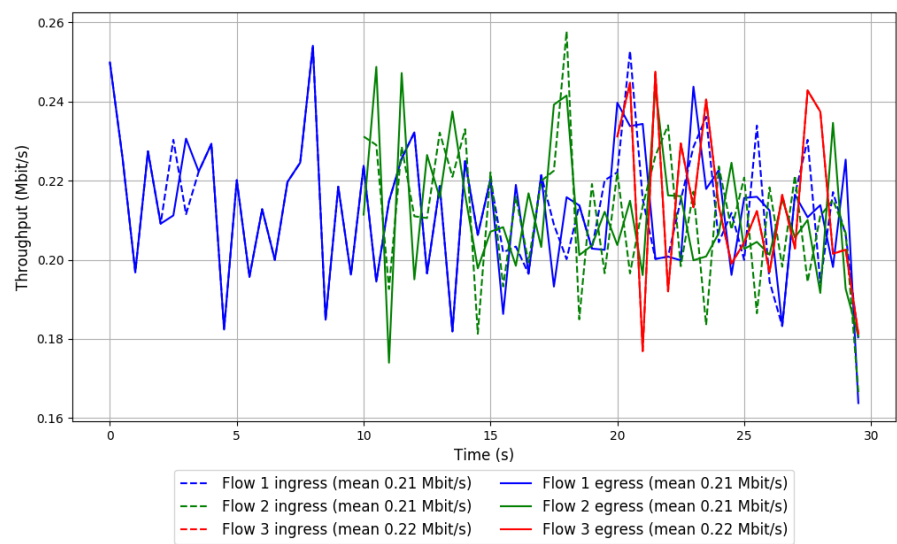
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.031 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: Tue, 01 Aug 2017 06:58:12 +0000

End at: Tue, 01 Aug 2017 06:58:42 +0000

Local clock offset: 0.254 ms

Remote clock offset: -4.037 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:52 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 16.200 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.210 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.184 ms

Loss rate: 0.22%

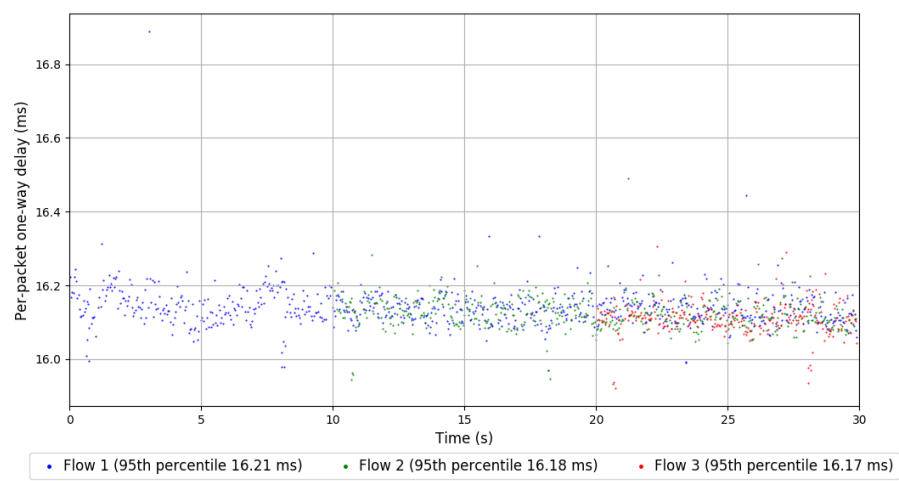
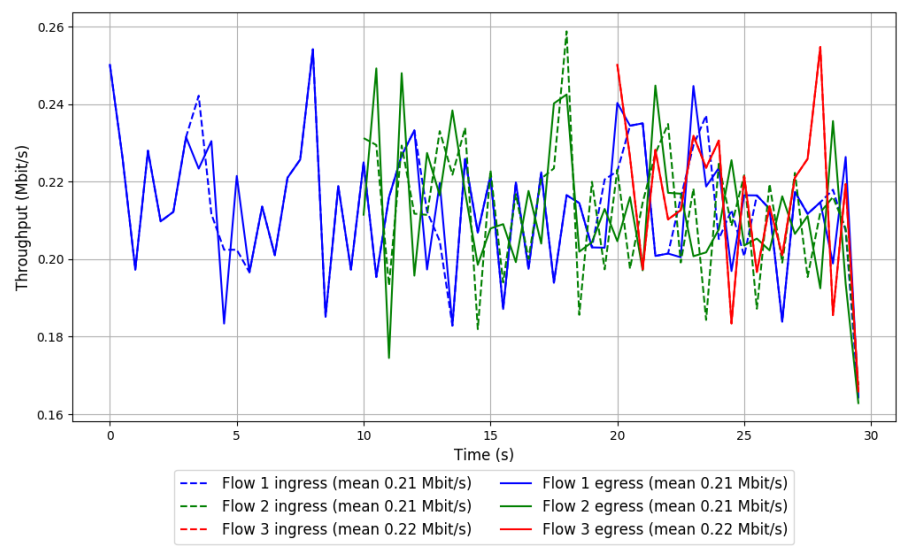
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.171 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: Tue, 01 Aug 2017 07:16:22 +0000

End at: Tue, 01 Aug 2017 07:16:52 +0000

Local clock offset: -3.12 ms

Remote clock offset: -5.745 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:54 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 14.130 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.138 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.096 ms

Loss rate: 0.20%

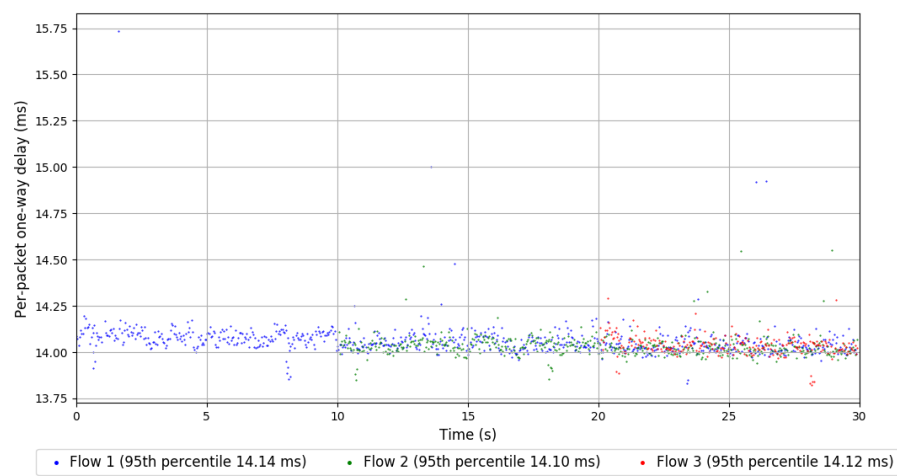
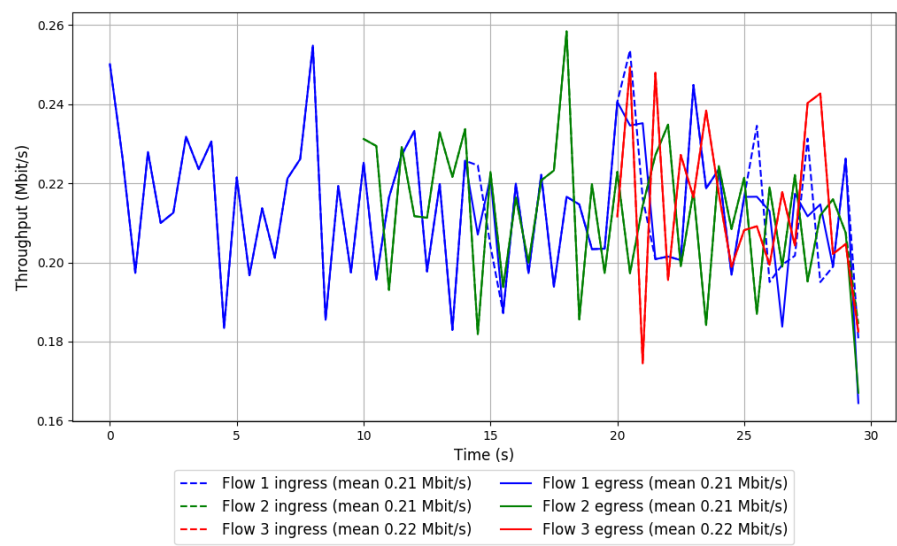
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 14.118 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: Tue, 01 Aug 2017 07:34:31 +0000

End at: Tue, 01 Aug 2017 07:35:01 +0000

Local clock offset: 0.004 ms

Remote clock offset: -4.485 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:44:54 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 22.352 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 22.346 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 22.367 ms

Loss rate: 0.19%

-- Flow 3:

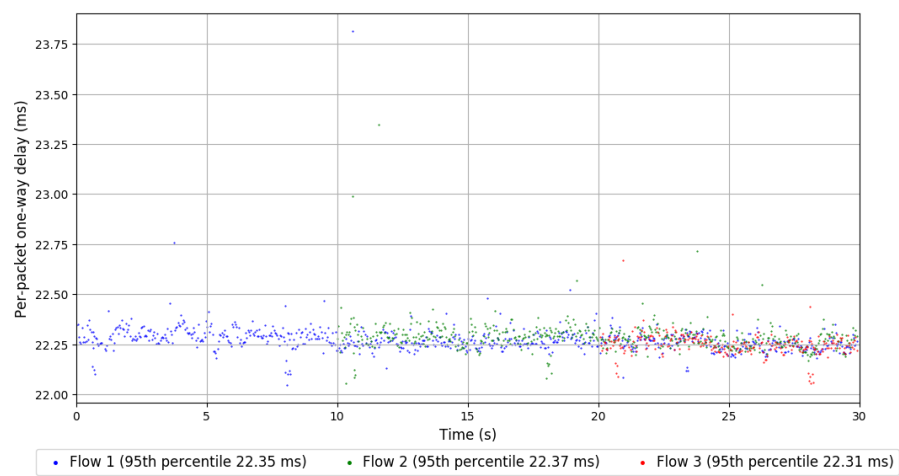
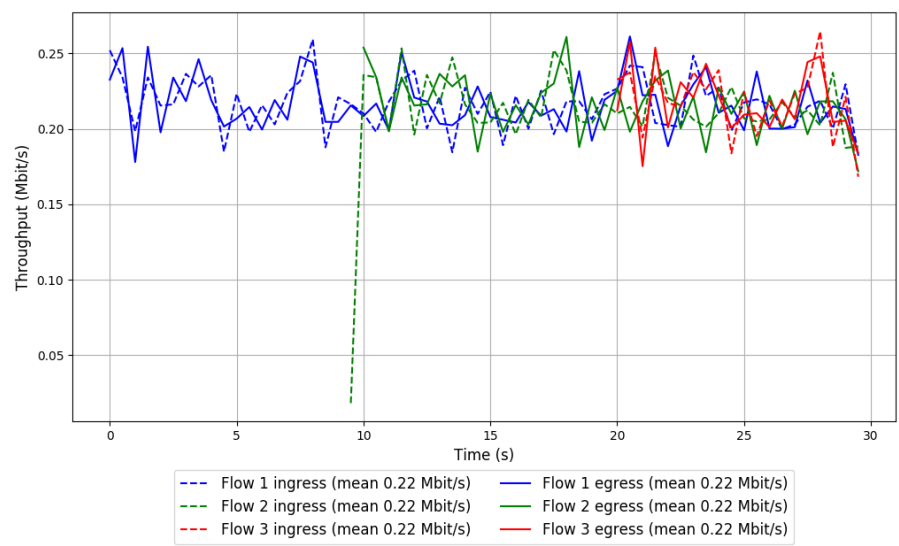
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 22.313 ms

Loss rate: 0.00%



Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: Tue, 01 Aug 2017 04:56:00 +0000

End at: Tue, 01 Aug 2017 04:56:30 +0000

Local clock offset: 1.252 ms

Remote clock offset: -2.102 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:01 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 23.720 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 23.861 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 23.637 ms

Loss rate: 0.04%

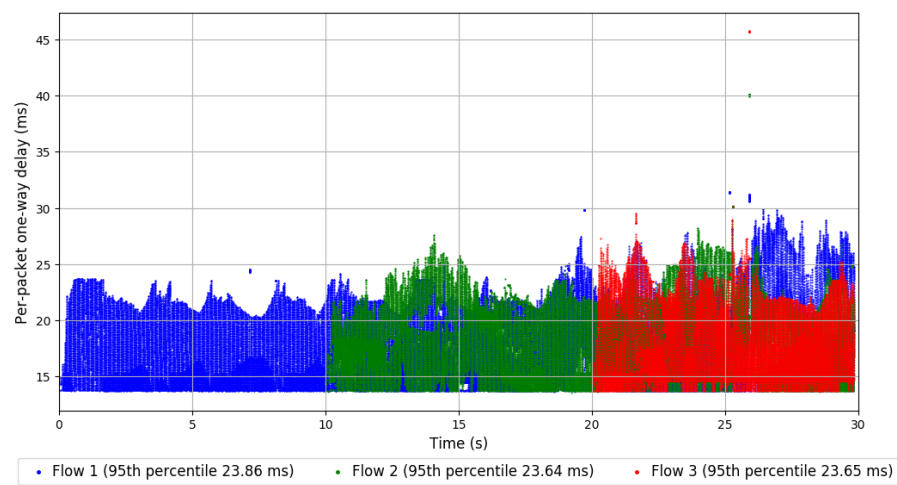
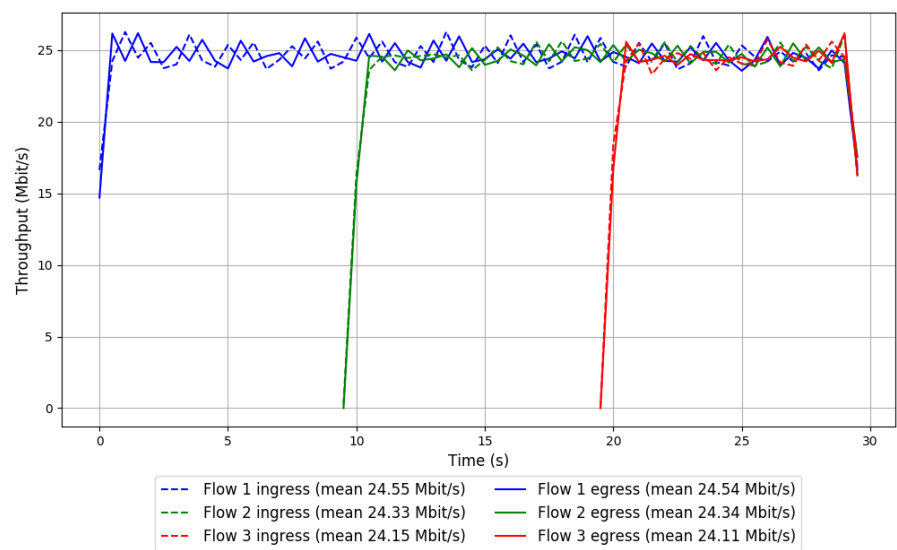
-- Flow 3:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 23.646 ms

Loss rate: 0.33%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Tue, 01 Aug 2017 05:13:59 +0000

End at: Tue, 01 Aug 2017 05:14:29 +0000

Local clock offset: 2.033 ms

Remote clock offset: -3.911 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:01 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 27.368 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 24.44 Mbit/s

95th percentile per-packet one-way delay: 26.882 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 27.319 ms

Loss rate: 0.12%

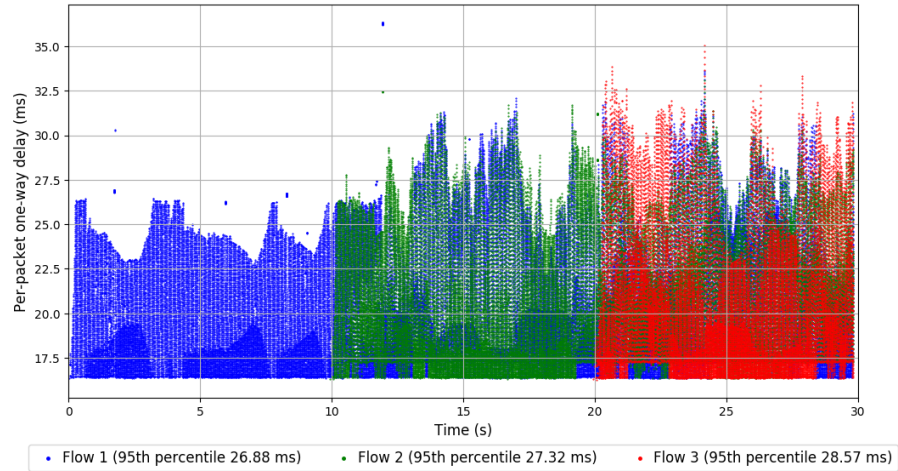
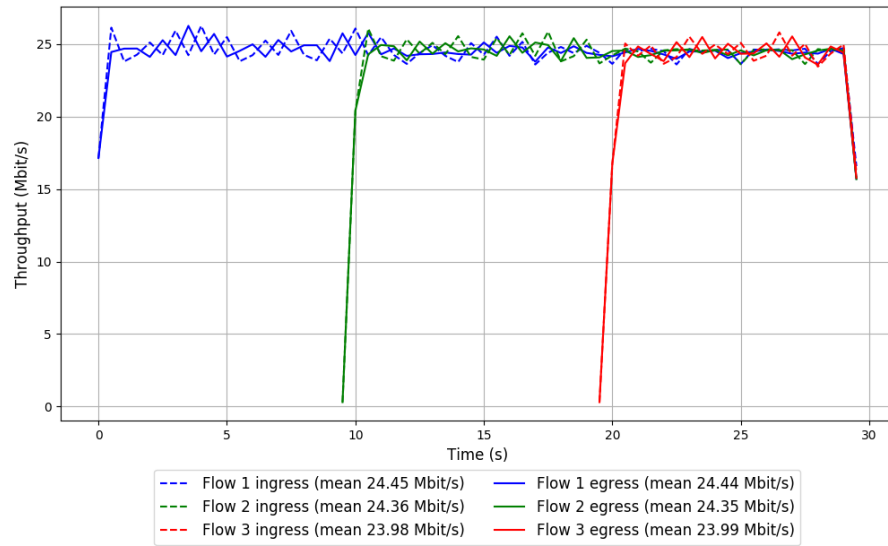
-- Flow 3:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 28.566 ms

Loss rate: 0.34%

## Run 2: Report of Sprout — Data Link



### Run 3: Statistics of Sprout

Start at: Tue, 01 Aug 2017 05:32:28 +0000

End at: Tue, 01 Aug 2017 05:32:58 +0000

Local clock offset: 2.264 ms

Remote clock offset: -5.637 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.83 Mbit/s

95th percentile per-packet one-way delay: 27.680 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 27.424 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 24.55 Mbit/s

95th percentile per-packet one-way delay: 27.082 ms

Loss rate: 0.18%

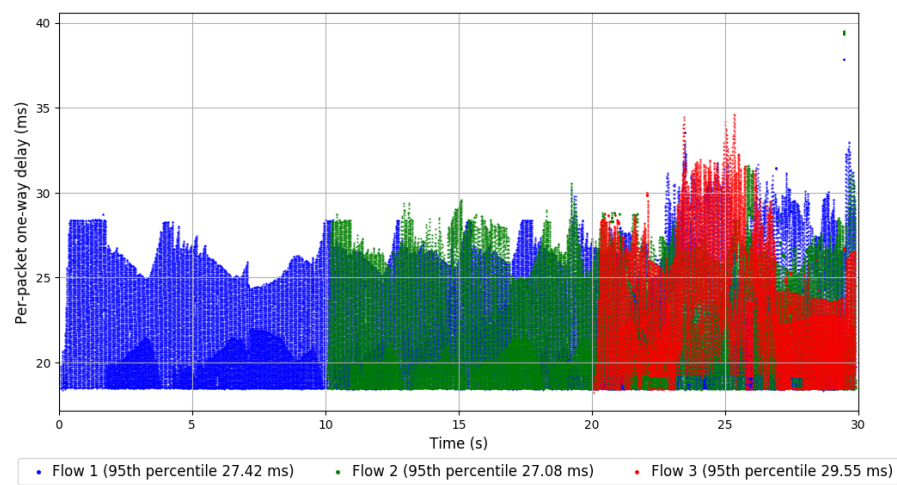
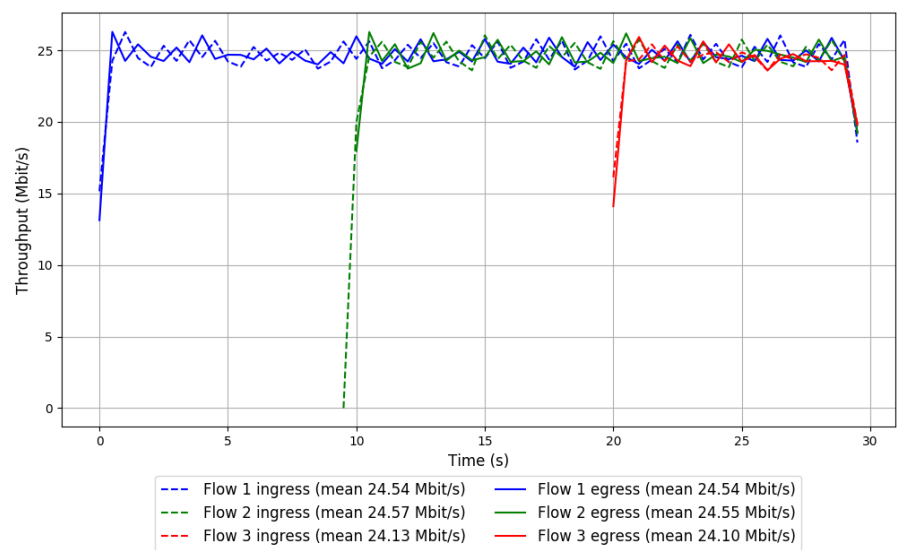
-- Flow 3:

Average throughput: 24.10 Mbit/s

95th percentile per-packet one-way delay: 29.547 ms

Loss rate: 0.34%

Run 3: Report of Sprout — Data Link



#### Run 4: Statistics of Sprout

Start at: Tue, 01 Aug 2017 05:50:42 +0000

End at: Tue, 01 Aug 2017 05:51:12 +0000

Local clock offset: 1.291 ms

Remote clock offset: -5.289 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 27.166 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 26.941 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 27.577 ms

Loss rate: 0.17%

-- Flow 3:

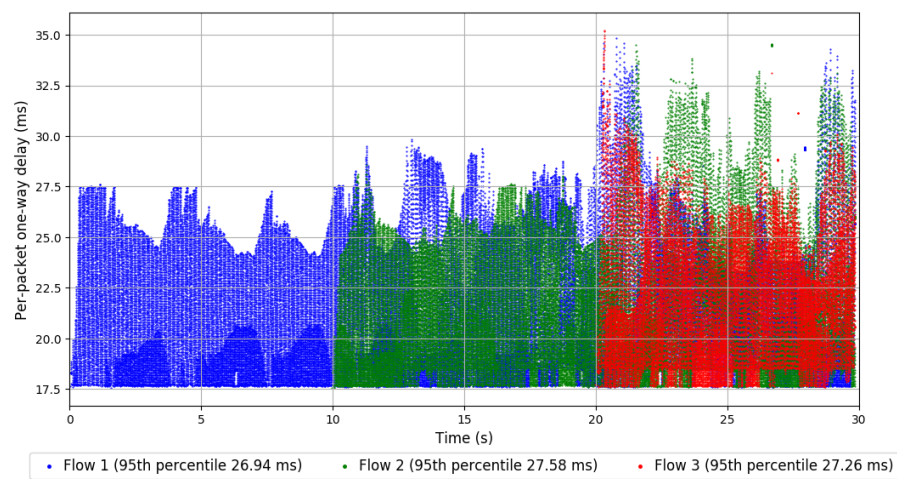
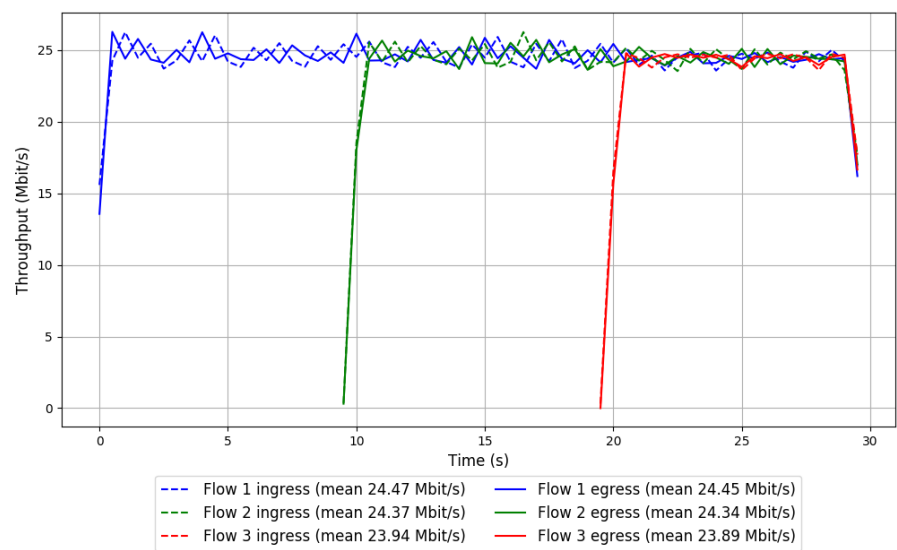
Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 27.257 ms

Loss rate: 0.41%



Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: Tue, 01 Aug 2017 06:08:58 +0000

End at: Tue, 01 Aug 2017 06:09:28 +0000

Local clock offset: 1.08 ms

Remote clock offset: -2.957 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 25.427 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 24.52 Mbit/s

95th percentile per-packet one-way delay: 25.217 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 26.070 ms

Loss rate: 0.15%

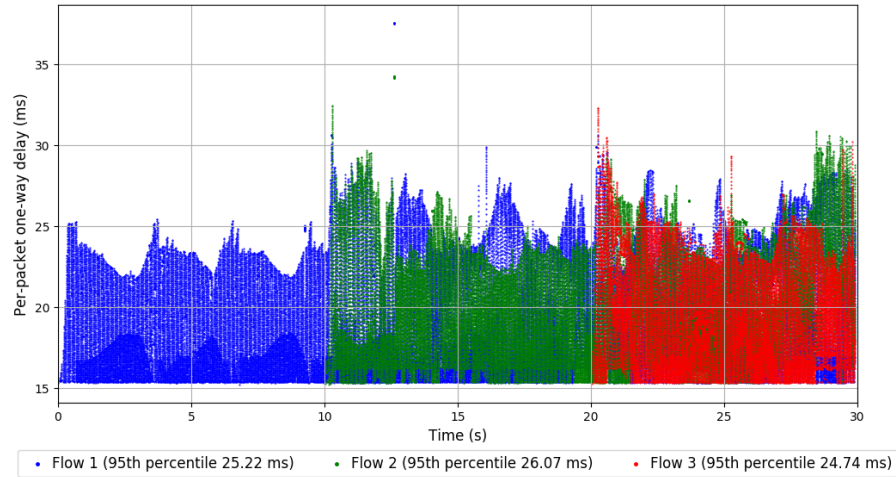
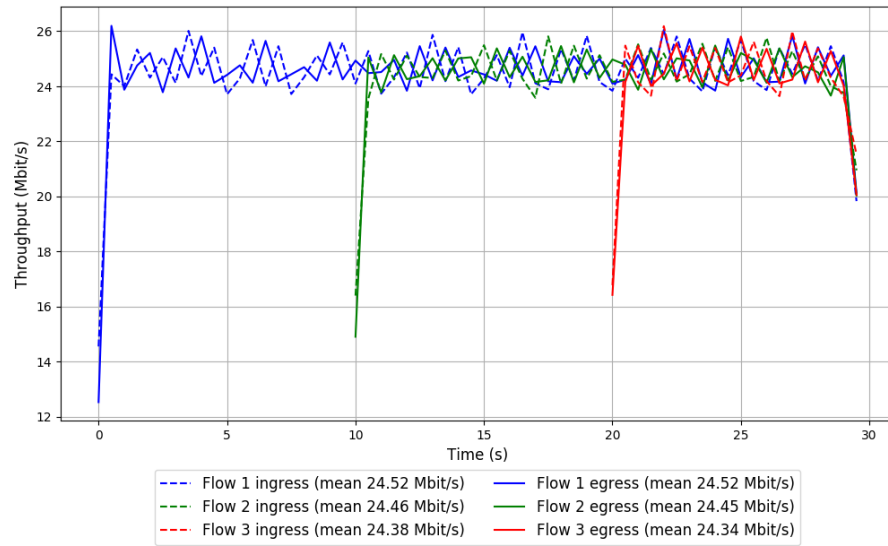
-- Flow 3:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 24.743 ms

Loss rate: 0.35%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Tue, 01 Aug 2017 06:26:48 +0000

End at: Tue, 01 Aug 2017 06:27:18 +0000

Local clock offset: -1.541 ms

Remote clock offset: -3.003 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 24.050 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 23.697 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 22.997 ms

Loss rate: 0.06%

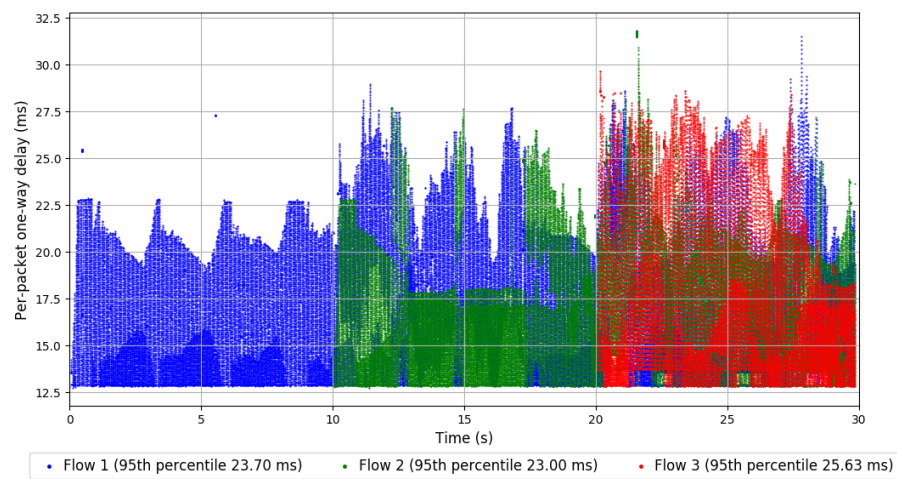
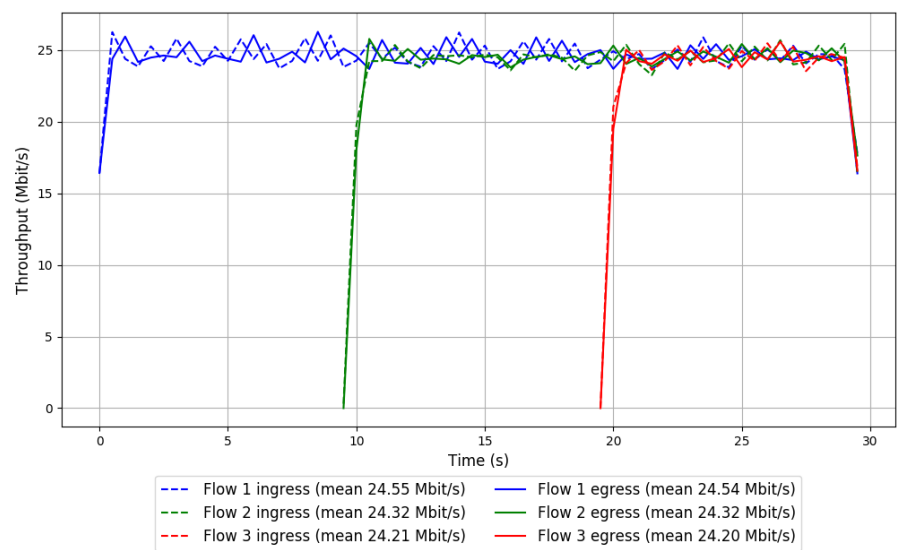
-- Flow 3:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 25.632 ms

Loss rate: 0.24%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: Tue, 01 Aug 2017 06:45:04 +0000

End at: Tue, 01 Aug 2017 06:45:34 +0000

Local clock offset: -2.589 ms

Remote clock offset: -5.902 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:23 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 32.878 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 23.47 Mbit/s

95th percentile per-packet one-way delay: 30.730 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 22.21 Mbit/s

95th percentile per-packet one-way delay: 33.536 ms

Loss rate: 0.20%

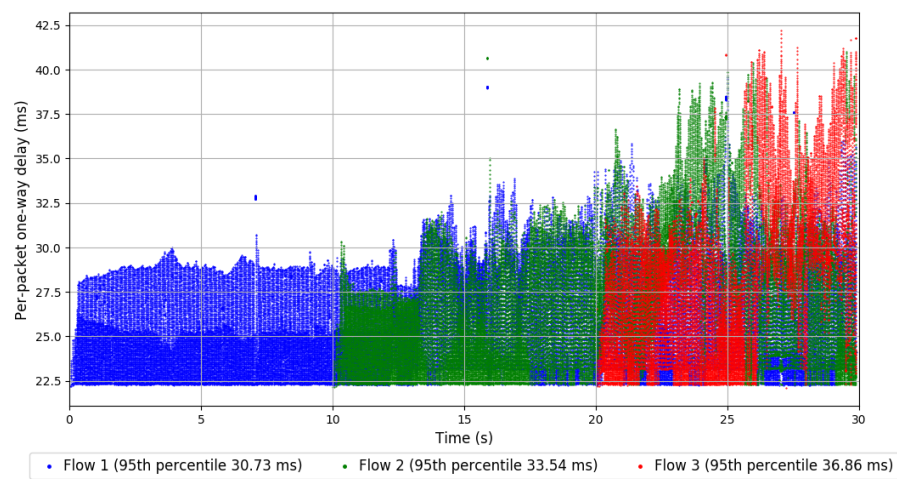
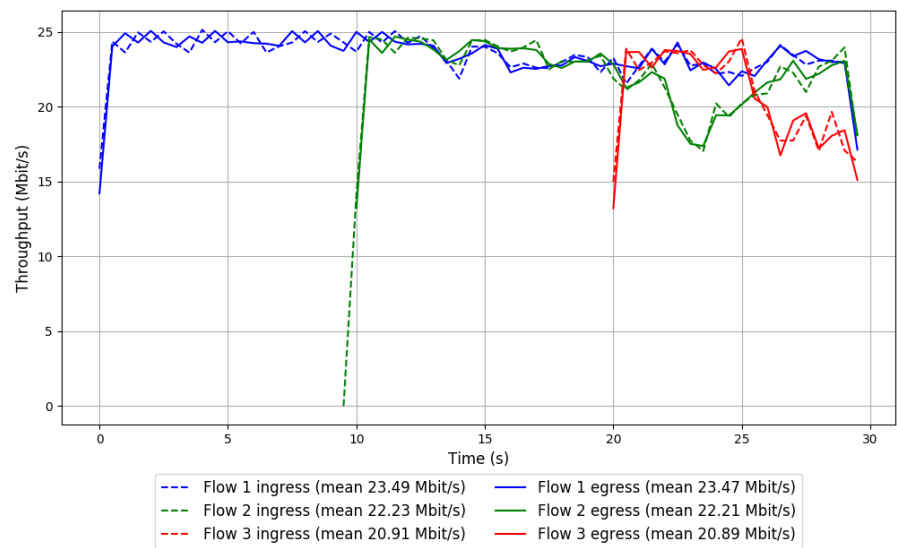
-- Flow 3:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 36.858 ms

Loss rate: 0.44%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Tue, 01 Aug 2017 07:03:06 +0000

End at: Tue, 01 Aug 2017 07:03:36 +0000

Local clock offset: -0.844 ms

Remote clock offset: -5.708 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:24 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.57 Mbit/s

95th percentile per-packet one-way delay: 25.361 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 25.738 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 24.562 ms

Loss rate: 0.20%

-- Flow 3:

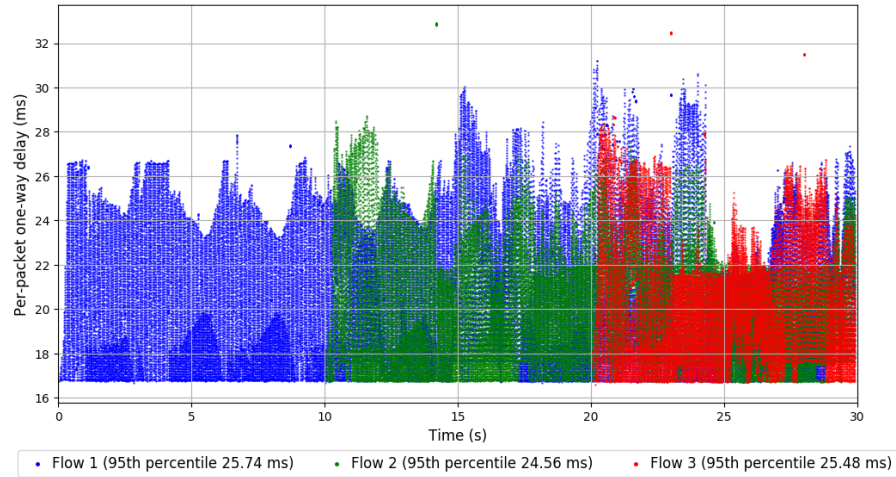
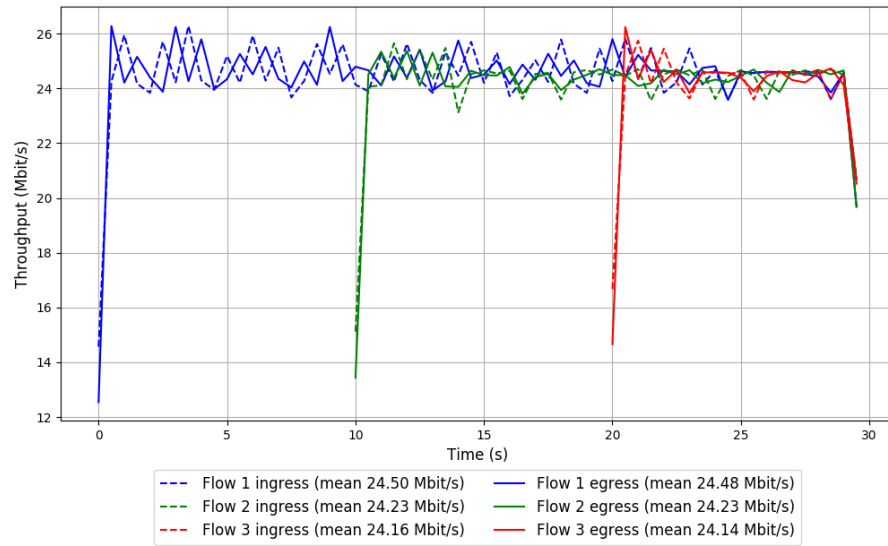
Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 25.484 ms

Loss rate: 0.23%



## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Tue, 01 Aug 2017 07:21:24 +0000

End at: Tue, 01 Aug 2017 07:21:54 +0000

Local clock offset: -0.826 ms

Remote clock offset: -5.168 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.57 Mbit/s

95th percentile per-packet one-way delay: 23.895 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 23.996 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 23.826 ms

Loss rate: 0.10%

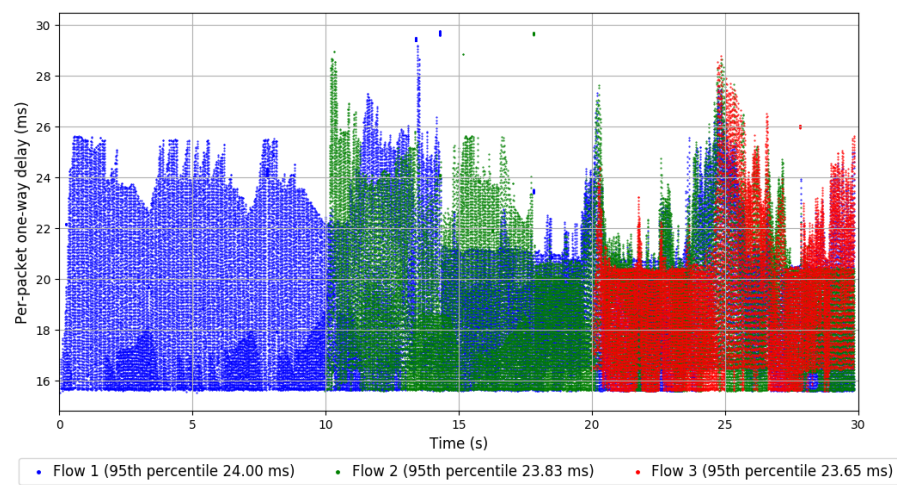
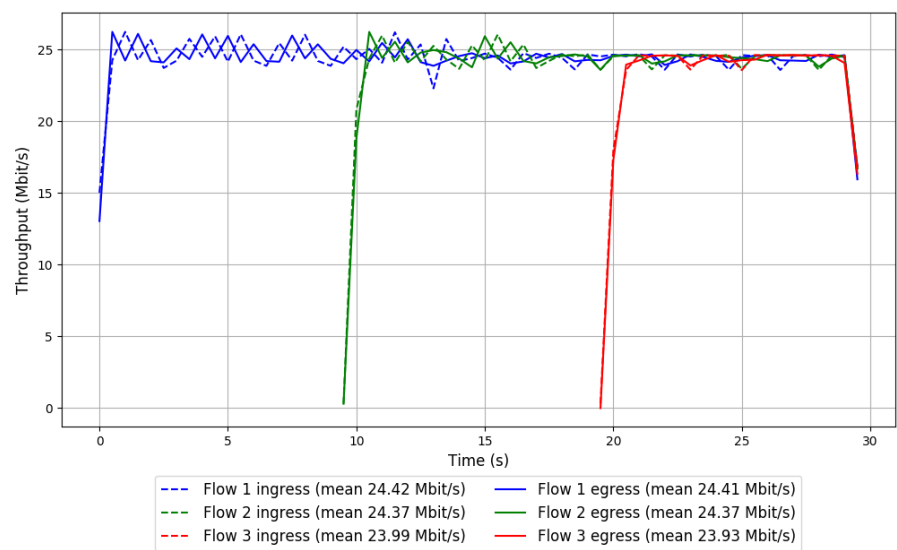
-- Flow 3:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 23.654 ms

Loss rate: 0.41%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Tue, 01 Aug 2017 07:39:24 +0000

End at: Tue, 01 Aug 2017 07:39:54 +0000

Local clock offset: -0.354 ms

Remote clock offset: -5.505 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:31 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 25.872 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 25.036 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 26.468 ms

Loss rate: 0.17%

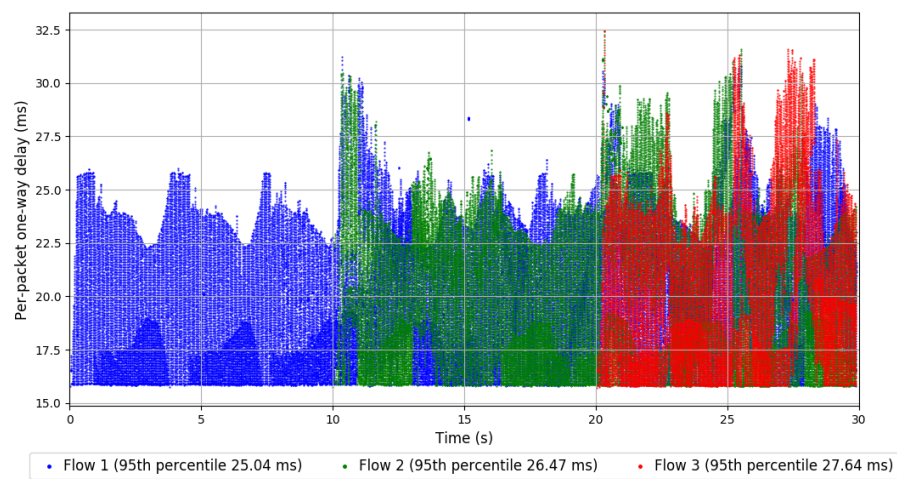
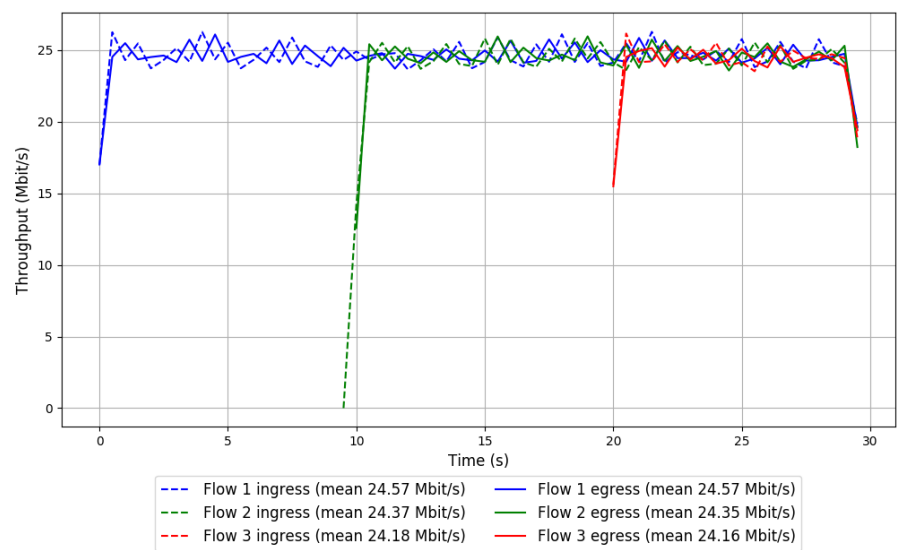
-- Flow 3:

Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 27.635 ms

Loss rate: 0.25%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 04:48:07 +0000

End at: Tue, 01 Aug 2017 04:48:37 +0000

Local clock offset: 3.099 ms

Remote clock offset: -3.471 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:45:49 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 46.517 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 46.309 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 46.601 ms

Loss rate: 0.21%

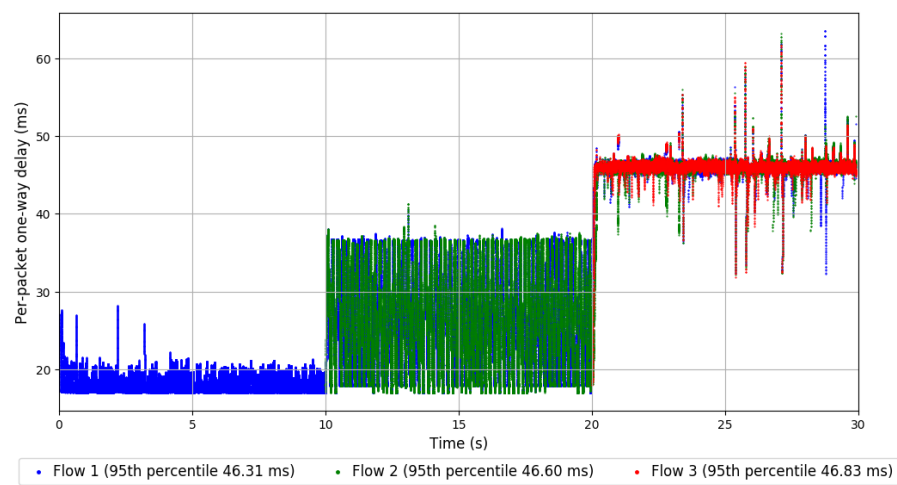
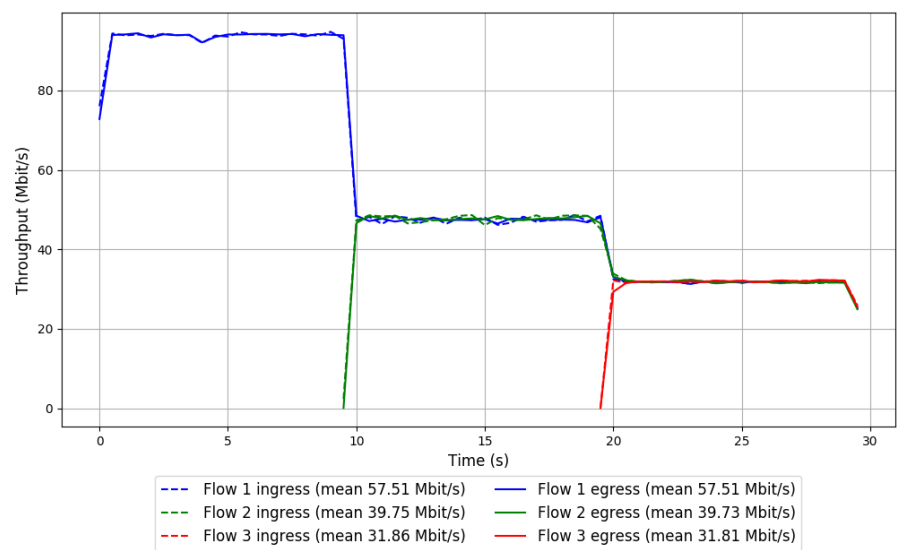
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 46.826 ms

Loss rate: 0.53%

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



Run 2: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 05:06:44 +0000

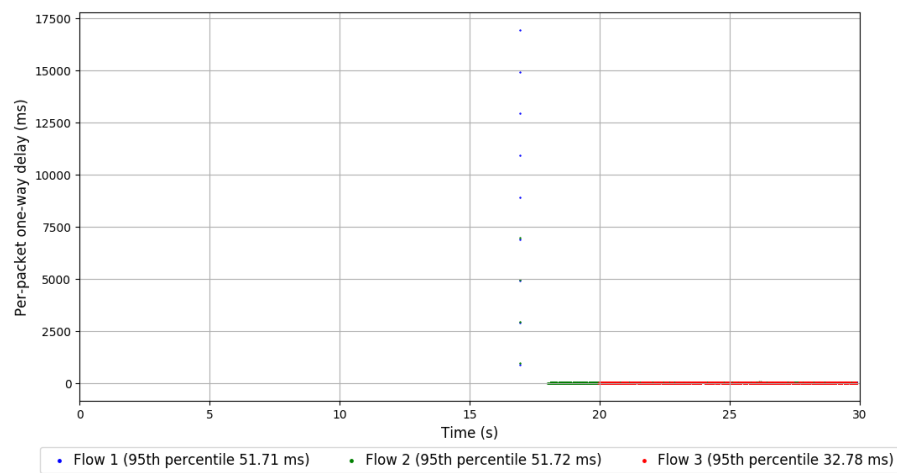
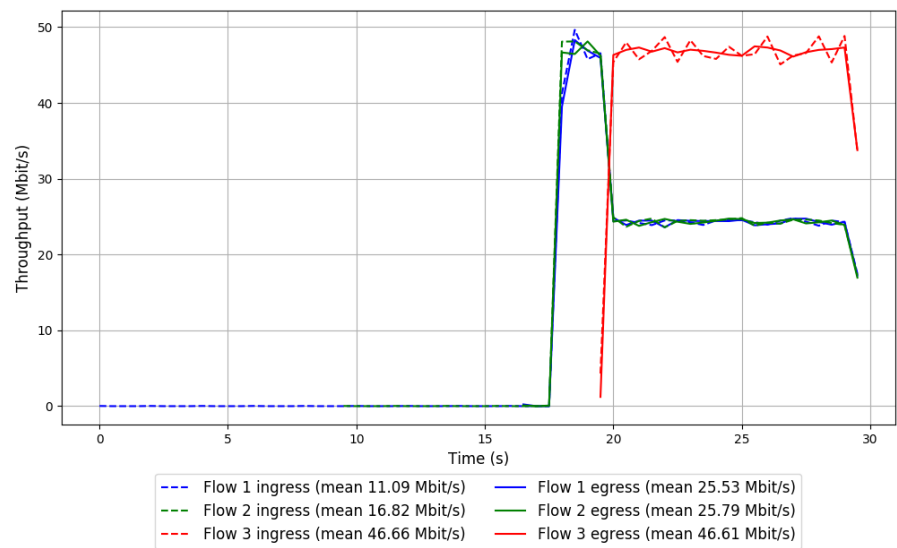
End at: Tue, 01 Aug 2017 05:07:14 +0000

Local clock offset: -0.537 ms

Remote clock offset: -3.221 ms



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



Run 3: Statistics of TaoVA-100x

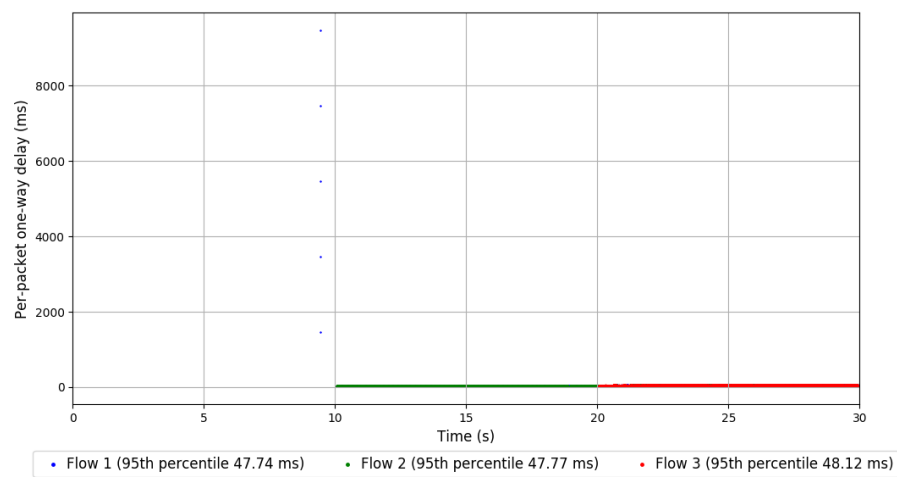
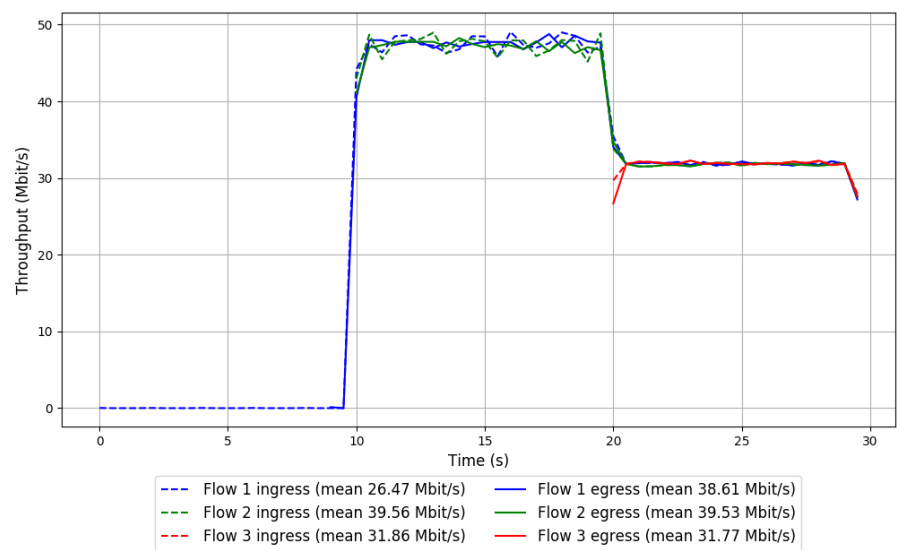
Start at: Tue, 01 Aug 2017 05:25:01 +0000

End at: Tue, 01 Aug 2017 05:25:31 +0000

Local clock offset: 3.199 ms

Remote clock offset: -4.351 ms

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



Run 4: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 05:43:06 +0000

End at: Tue, 01 Aug 2017 05:43:36 +0000

Local clock offset: -0.361 ms

Remote clock offset: -6.032 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:46:10 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 45.843 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 57.66 Mbit/s

95th percentile per-packet one-way delay: 45.654 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.74 Mbit/s

95th percentile per-packet one-way delay: 45.857 ms

Loss rate: 0.22%

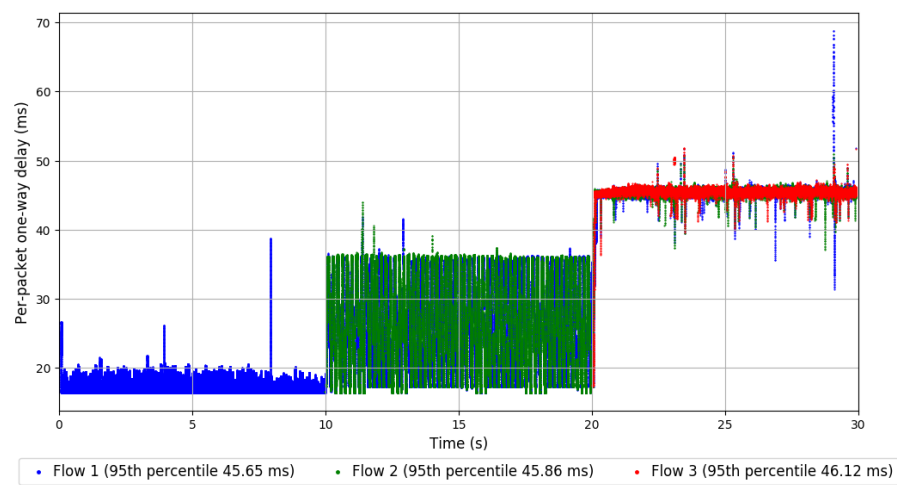
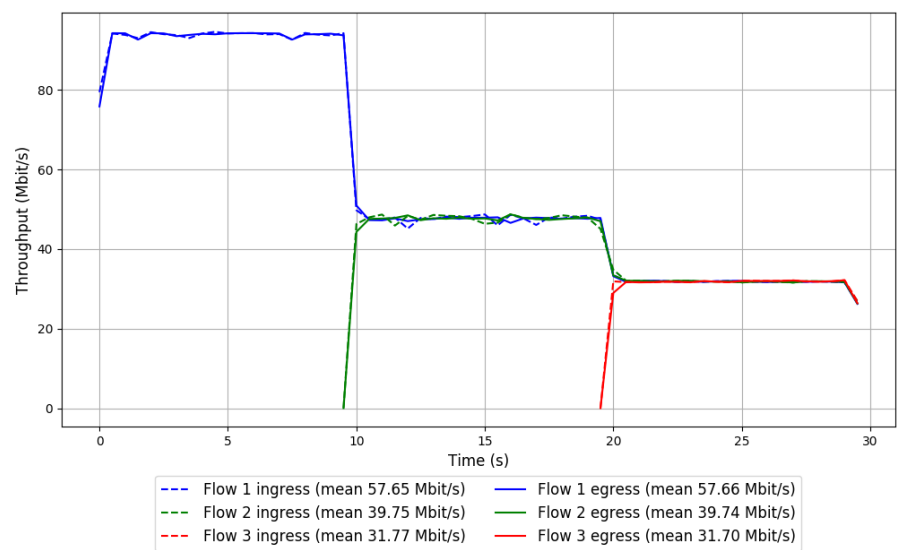
-- Flow 3:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 46.120 ms

Loss rate: 0.54%

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



Run 5: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 06:01:26 +0000

End at: Tue, 01 Aug 2017 06:01:56 +0000

Local clock offset: -2.058 ms

Remote clock offset: -2.785 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:46:19 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 41.446 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 57.47 Mbit/s

95th percentile per-packet one-way delay: 41.288 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.74 Mbit/s

95th percentile per-packet one-way delay: 41.545 ms

Loss rate: 0.21%

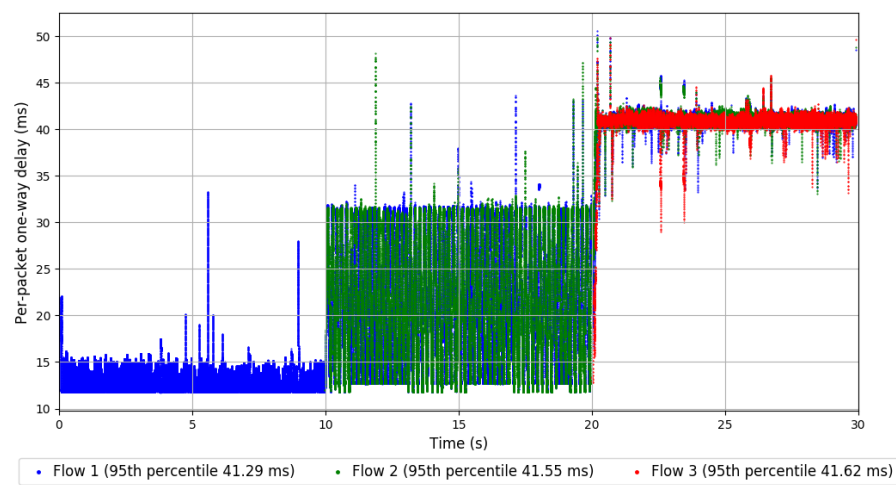
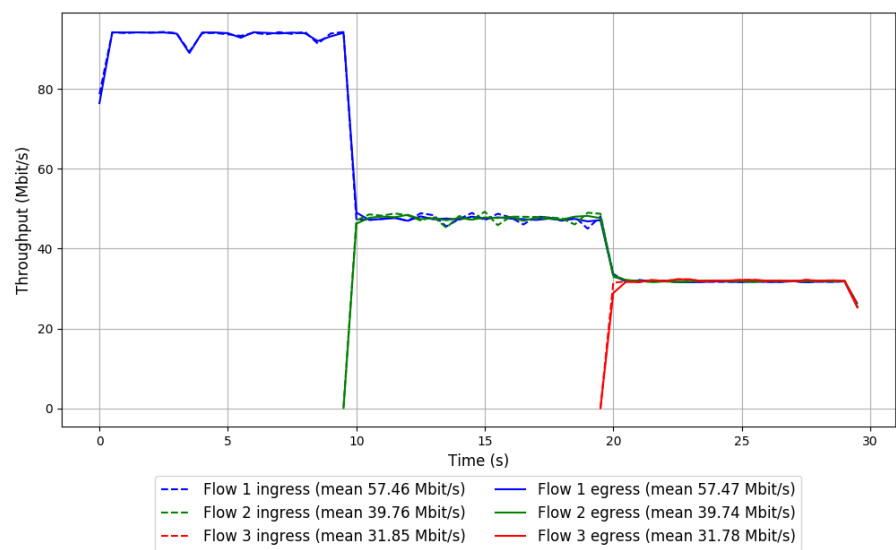
-- Flow 3:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 41.624 ms

Loss rate: 0.54%

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



Run 6: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 06:19:27 +0000

End at: Tue, 01 Aug 2017 06:19:57 +0000

Local clock offset: 1.1 ms

Remote clock offset: -3.107 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:46:32 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 45.164 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 44.930 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 45.186 ms

Loss rate: 0.21%

-- Flow 3:

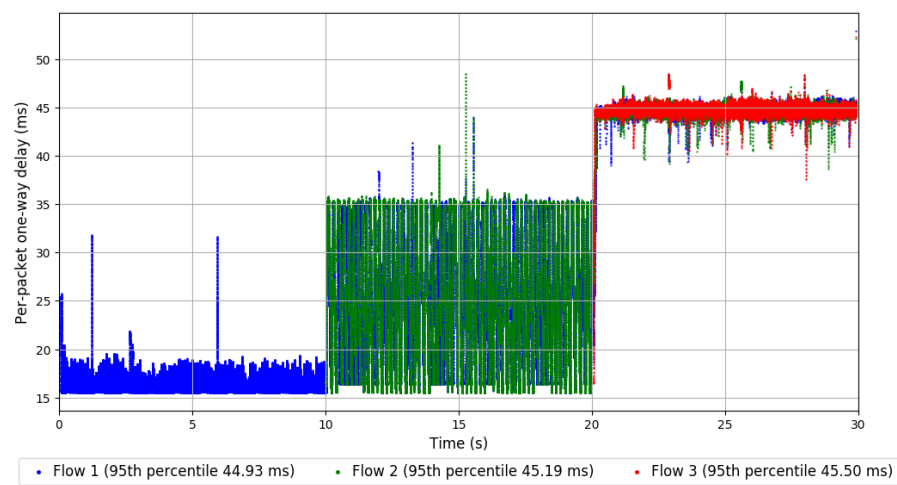
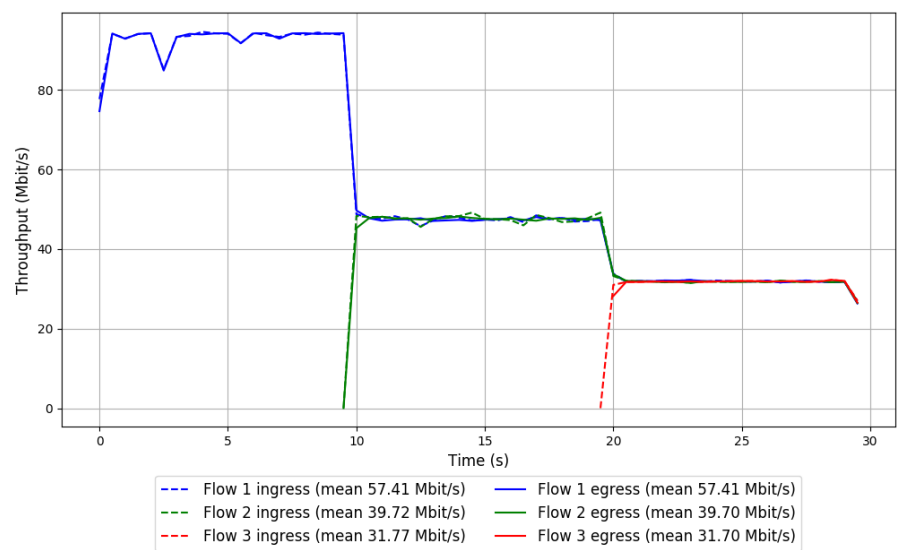
Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 45.503 ms

Loss rate: 0.53%



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



Run 7: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 06:37:32 +0000

End at: Tue, 01 Aug 2017 06:38:02 +0000

Local clock offset: -1.058 ms

Remote clock offset: -3.885 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:46:42 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 44.964 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 44.791 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 45.026 ms

Loss rate: 0.22%

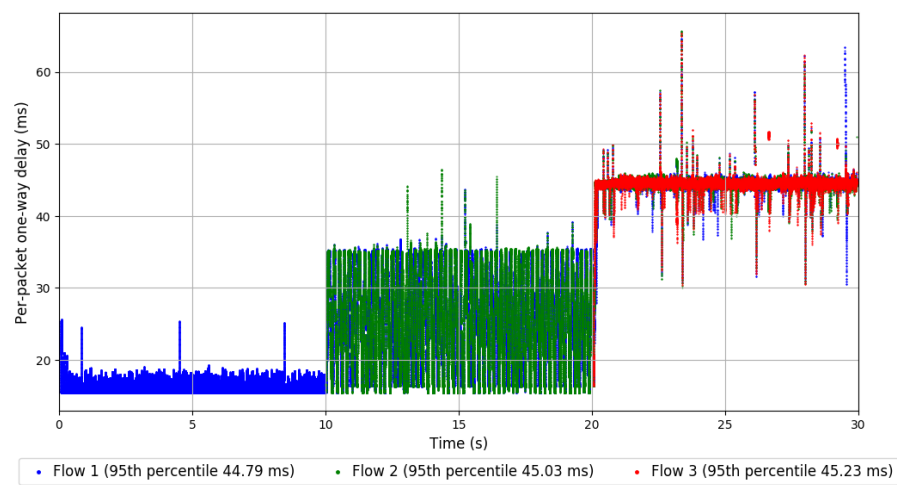
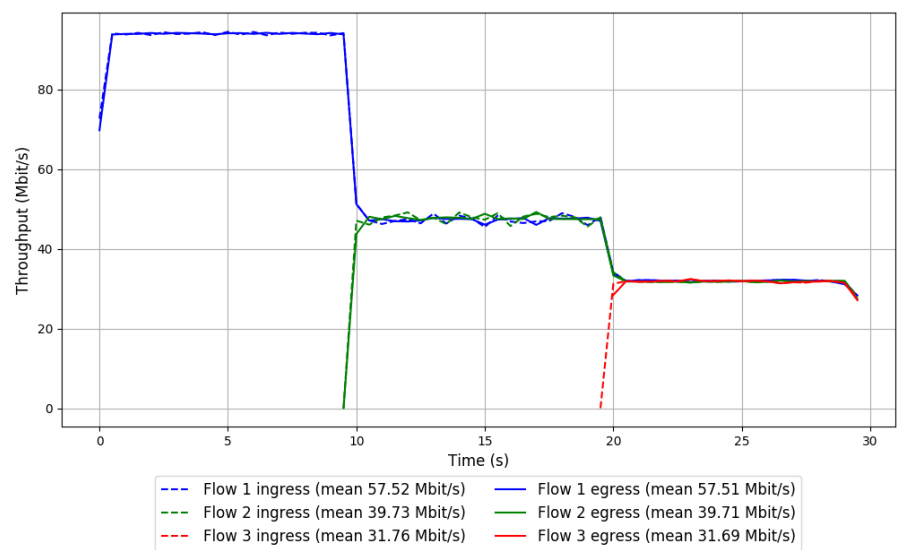
-- Flow 3:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 45.235 ms

Loss rate: 0.53%

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



Run 8: Statistics of TaoVA-100x

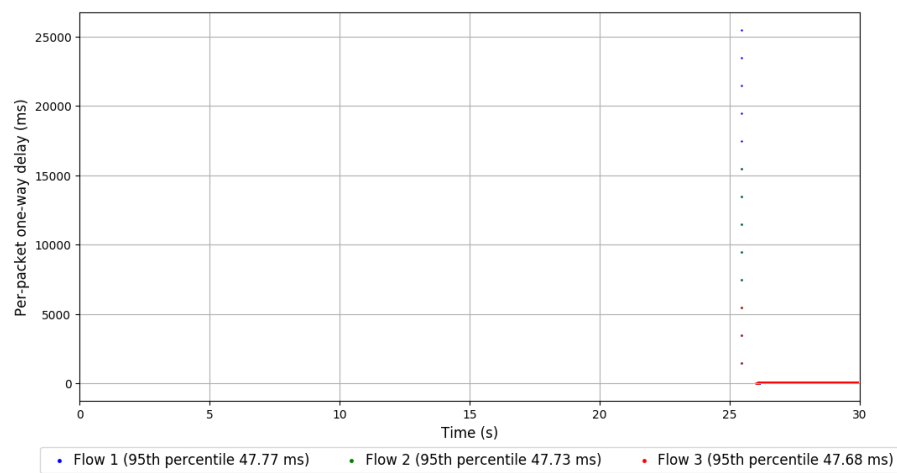
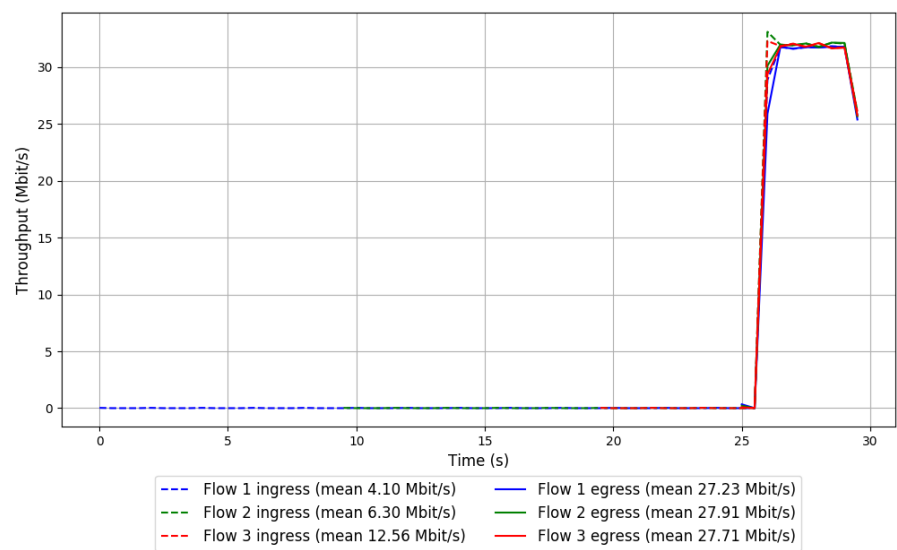
Start at: Tue, 01 Aug 2017 06:55:51 +0000

End at: Tue, 01 Aug 2017 06:56:21 +0000

Local clock offset: 0.561 ms

Remote clock offset: -5.701 ms

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



Run 9: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 07:13:51 +0000

End at: Tue, 01 Aug 2017 07:14:21 +0000

Local clock offset: 0.228 ms

Remote clock offset: -5.129 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:00 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 36.345 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 55.142 ms

Loss rate: 0.20%

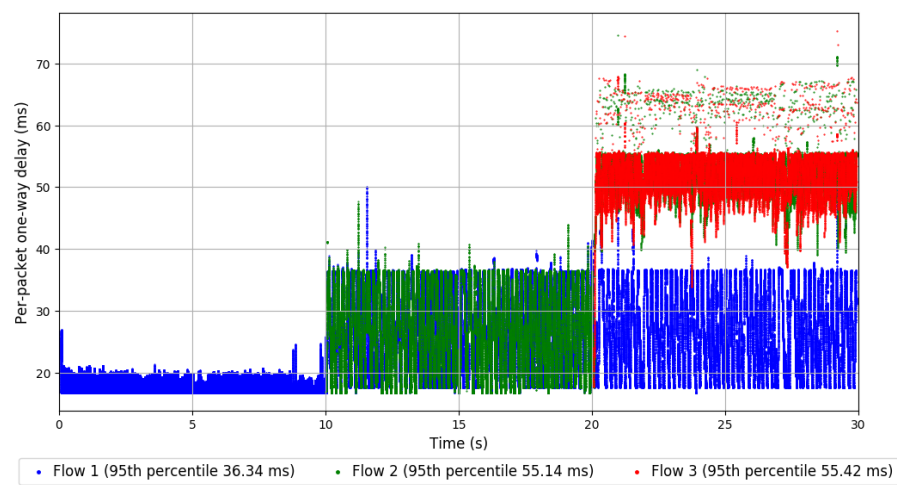
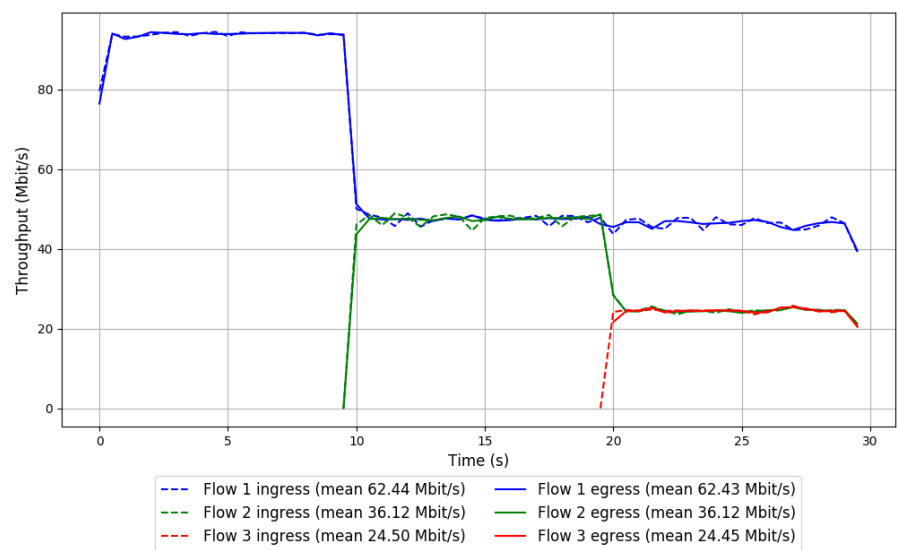
-- Flow 3:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 55.418 ms

Loss rate: 0.52%

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



Run 10: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 07:32:10 +0000

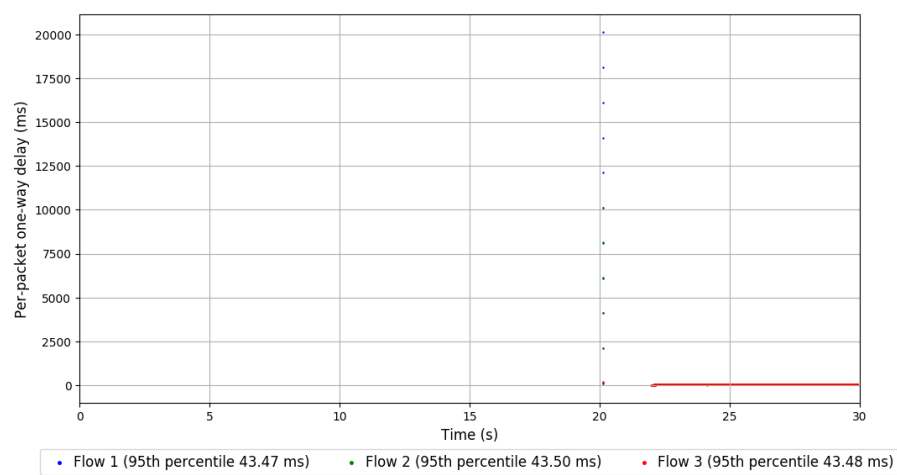
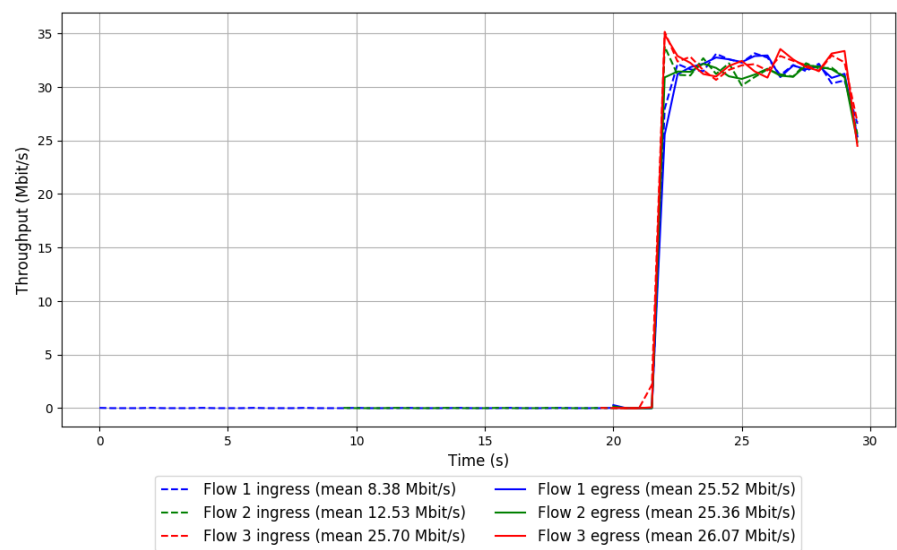
End at: Tue, 01 Aug 2017 07:32:40 +0000

Local clock offset: -1.817 ms

Remote clock offset: -5.469 ms



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



Run 1: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 04:49:41 +0000

End at: Tue, 01 Aug 2017 04:50:11 +0000

Local clock offset: -0.32 ms

Remote clock offset: -3.0 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:03 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.92 Mbit/s

95th percentile per-packet one-way delay: 36.734 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 61.75 Mbit/s

95th percentile per-packet one-way delay: 29.432 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 37.015 ms

Loss rate: 0.08%

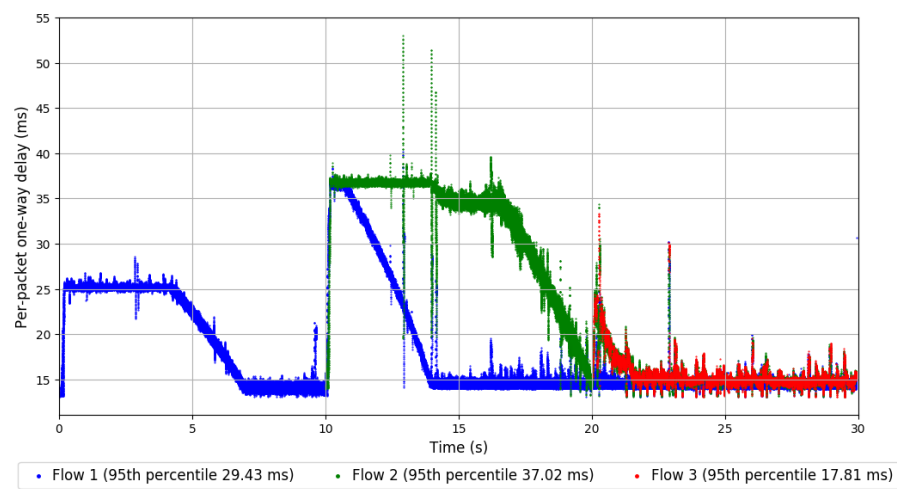
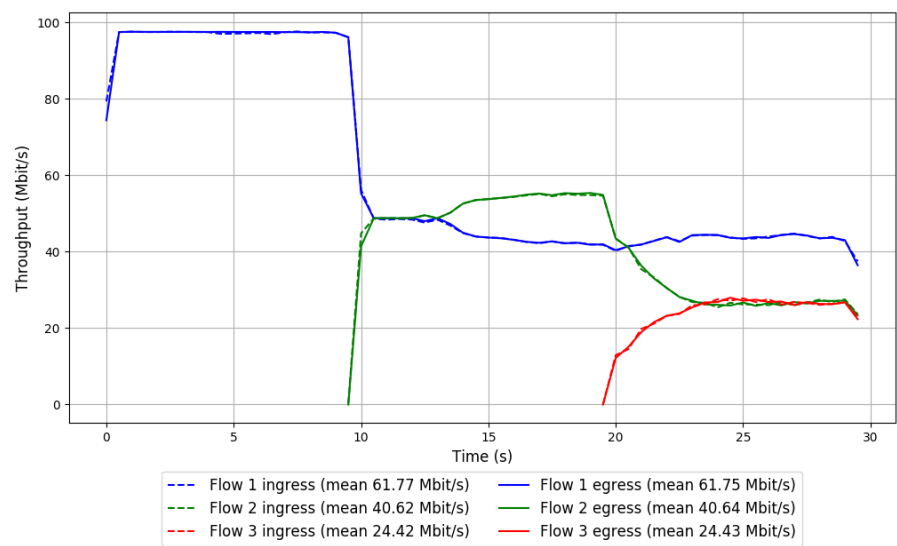
-- Flow 3:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 17.814 ms

Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 05:07:54 +0000

End at: Tue, 01 Aug 2017 05:08:24 +0000

Local clock offset: 2.506 ms

Remote clock offset: -3.549 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:14 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 62.949 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 62.912 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 40.409 ms

Loss rate: 0.12%

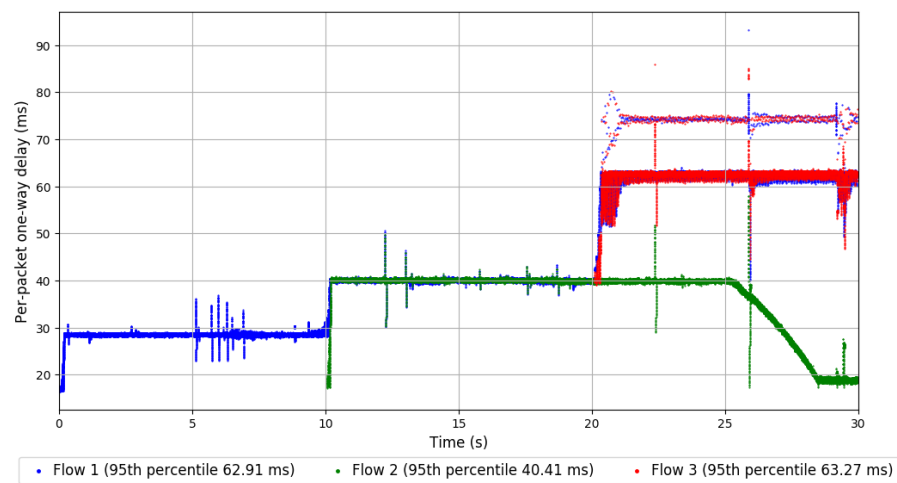
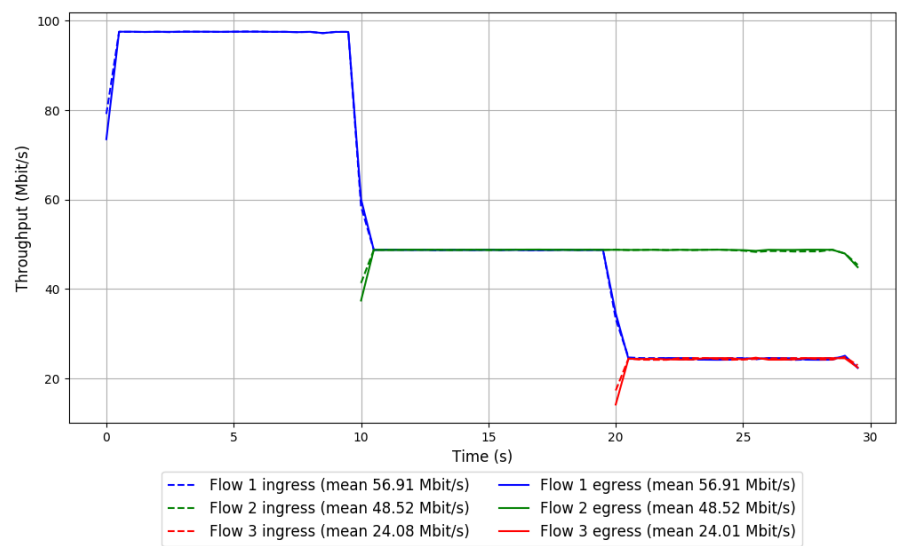
-- Flow 3:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 63.272 ms

Loss rate: 0.75%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 05:26:23 +0000

End at: Tue, 01 Aug 2017 05:26:53 +0000

Local clock offset: 1.627 ms

Remote clock offset: -4.904 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.80 Mbit/s

95th percentile per-packet one-way delay: 29.188 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 29.252 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 33.93 Mbit/s

95th percentile per-packet one-way delay: 22.465 ms

Loss rate: 0.11%

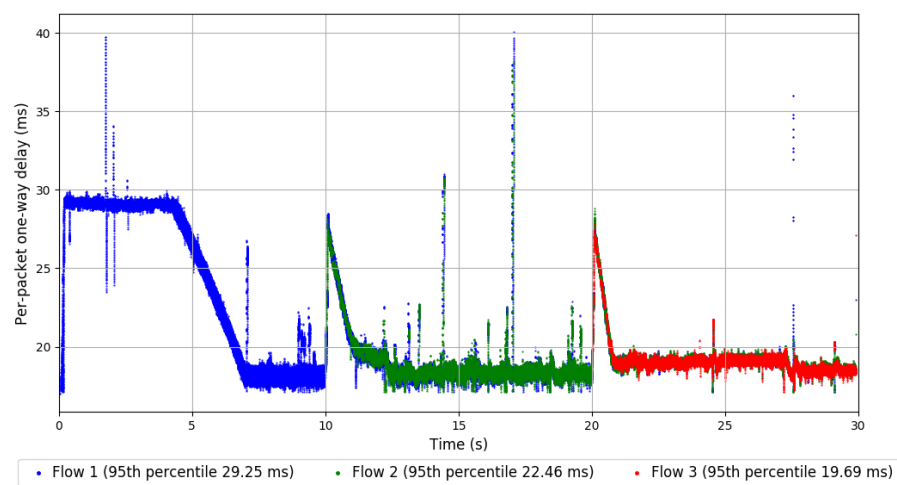
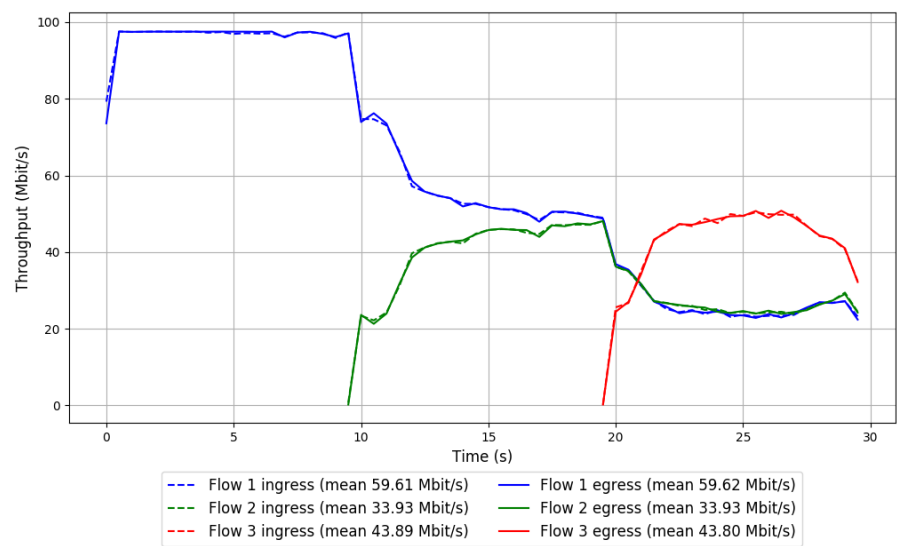
-- Flow 3:

Average throughput: 43.80 Mbit/s

95th percentile per-packet one-way delay: 19.689 ms

Loss rate: 0.23%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 05:44:28 +0000

End at: Tue, 01 Aug 2017 05:44:58 +0000

Local clock offset: -1.528 ms

Remote clock offset: -4.638 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:25 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 49.327 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.49 Mbit/s

95th percentile per-packet one-way delay: 49.287 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 49.388 ms

Loss rate: 0.23%

-- Flow 3:

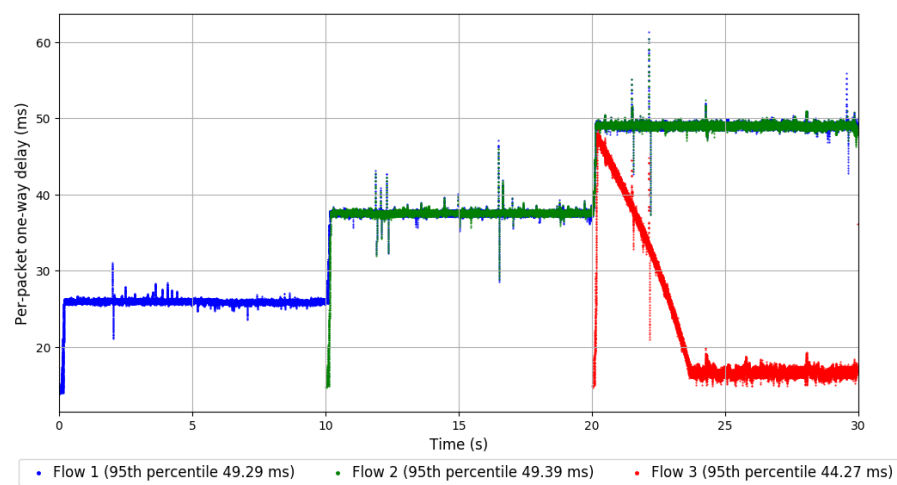
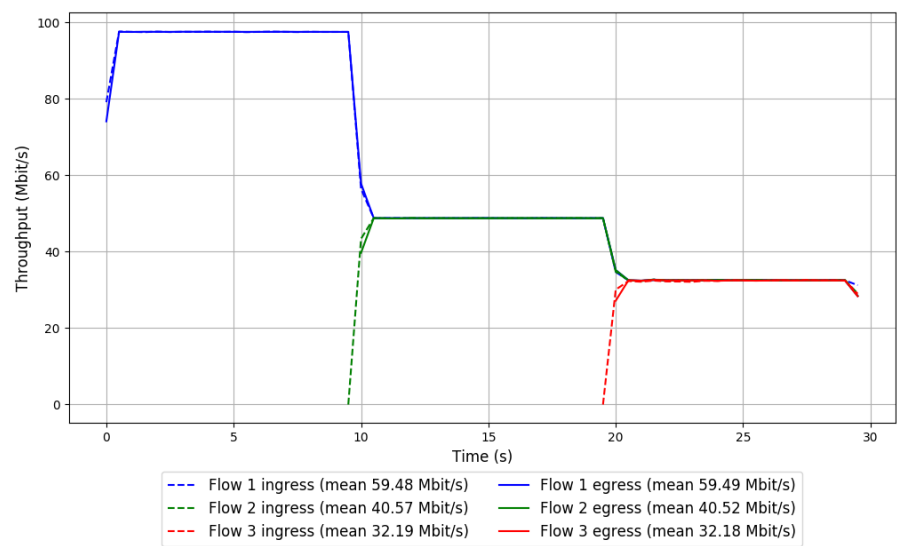
Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 44.273 ms

Loss rate: 0.27%



Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 06:02:48 +0000

End at: Tue, 01 Aug 2017 06:03:18 +0000

Local clock offset: -0.36 ms

Remote clock offset: -2.667 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:29 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 37.320 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 64.79 Mbit/s

95th percentile per-packet one-way delay: 37.280 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 37.388 ms

Loss rate: 0.09%

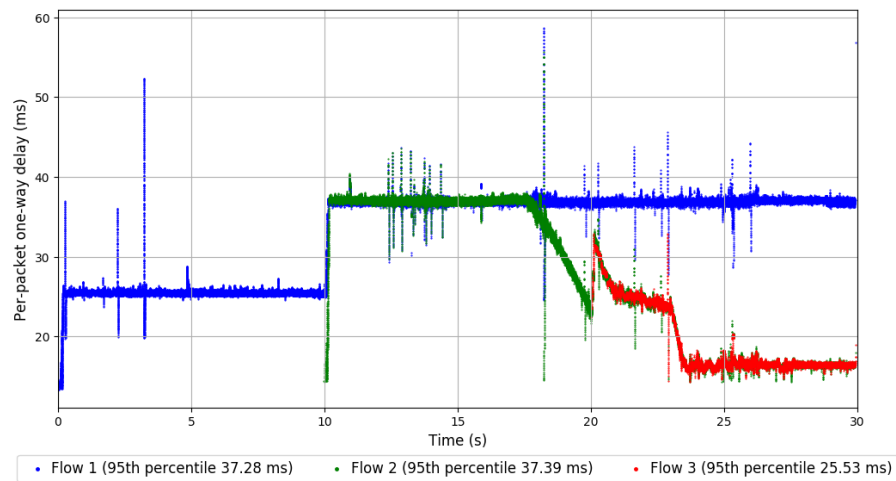
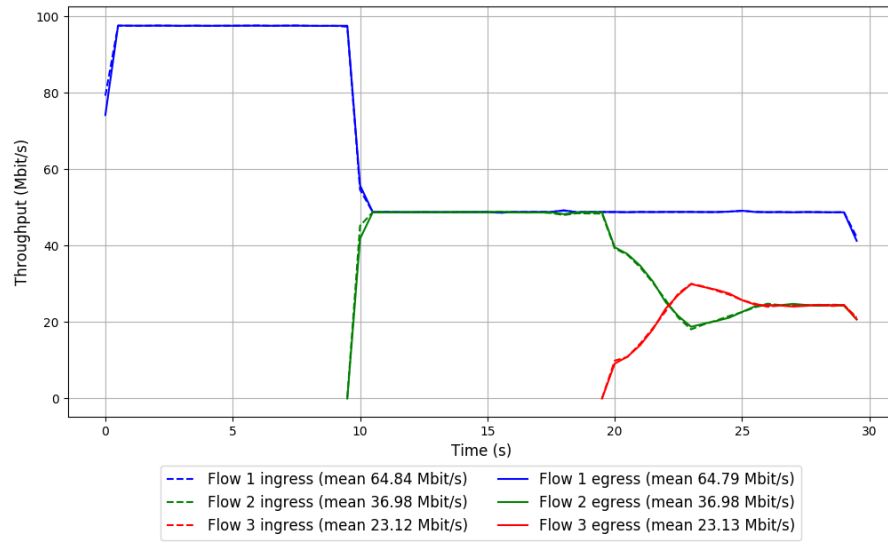
-- Flow 3:

Average throughput: 23.13 Mbit/s

95th percentile per-packet one-way delay: 25.526 ms

Loss rate: 0.25%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 06:20:46 +0000

End at: Tue, 01 Aug 2017 06:21:16 +0000

Local clock offset: -2.087 ms

Remote clock offset: -3.055 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:37 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.64 Mbit/s

95th percentile per-packet one-way delay: 24.427 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 61.70 Mbit/s

95th percentile per-packet one-way delay: 24.464 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 29.11 Mbit/s

95th percentile per-packet one-way delay: 23.416 ms

Loss rate: 0.11%

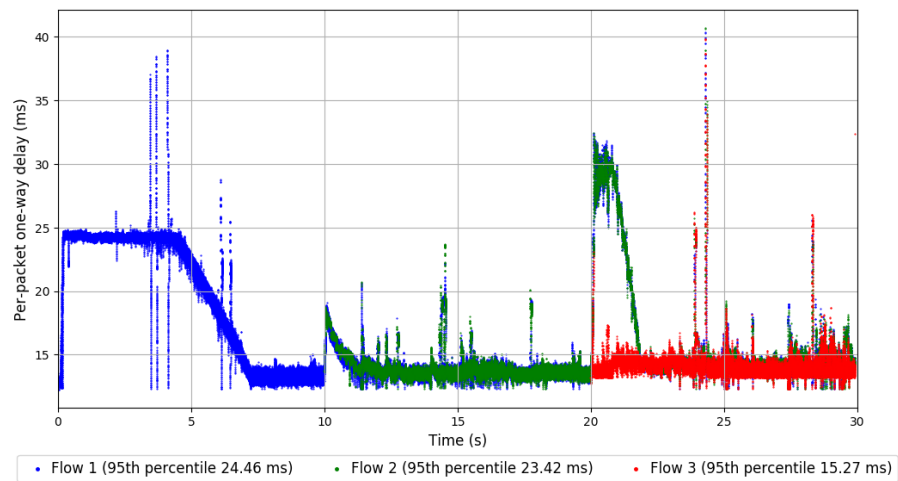
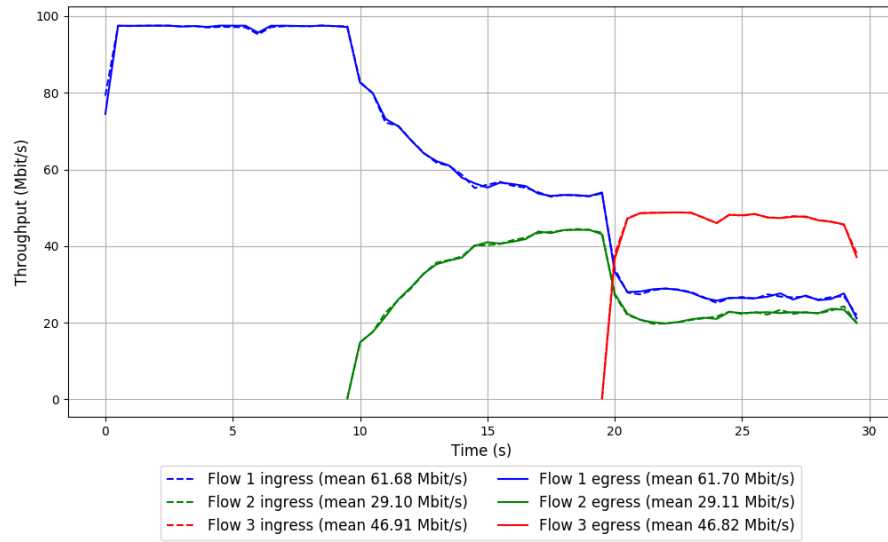
-- Flow 3:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 15.269 ms

Loss rate: 0.24%

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



Run 7: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 06:38:51 +0000

End at: Tue, 01 Aug 2017 06:39:21 +0000

Local clock offset: -1.278 ms

Remote clock offset: -4.031 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:43 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 39.062 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 19.445 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 34.02 Mbit/s

95th percentile per-packet one-way delay: 27.239 ms

Loss rate: 0.10%

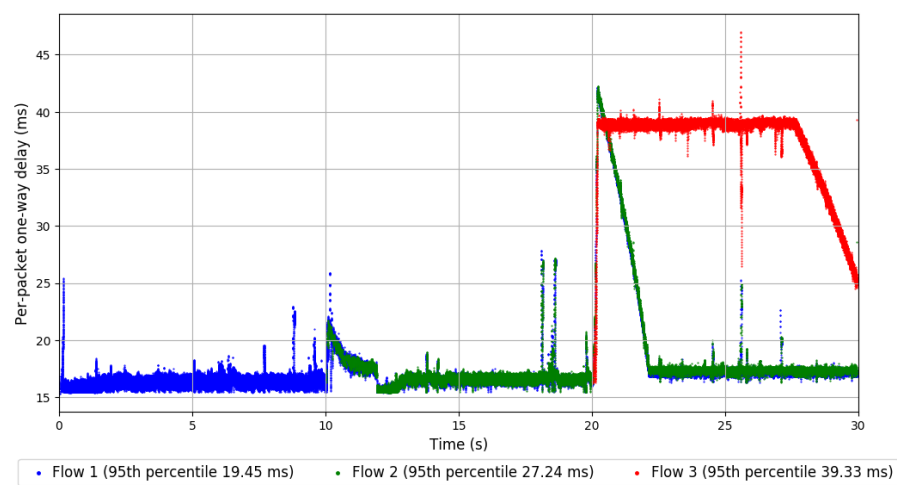
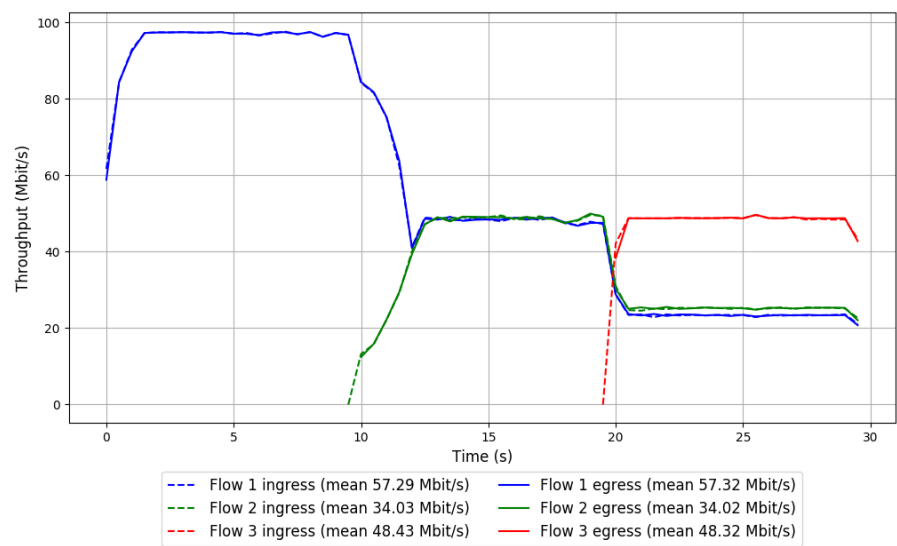
-- Flow 3:

Average throughput: 48.32 Mbit/s

95th percentile per-packet one-way delay: 39.327 ms

Loss rate: 0.34%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 06:56:58 +0000

End at: Tue, 01 Aug 2017 06:57:28 +0000

Local clock offset: -3.033 ms

Remote clock offset: -5.628 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:50 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 38.634 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 69.01 Mbit/s

95th percentile per-packet one-way delay: 38.738 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 38.101 ms

Loss rate: 0.10%

-- Flow 3:

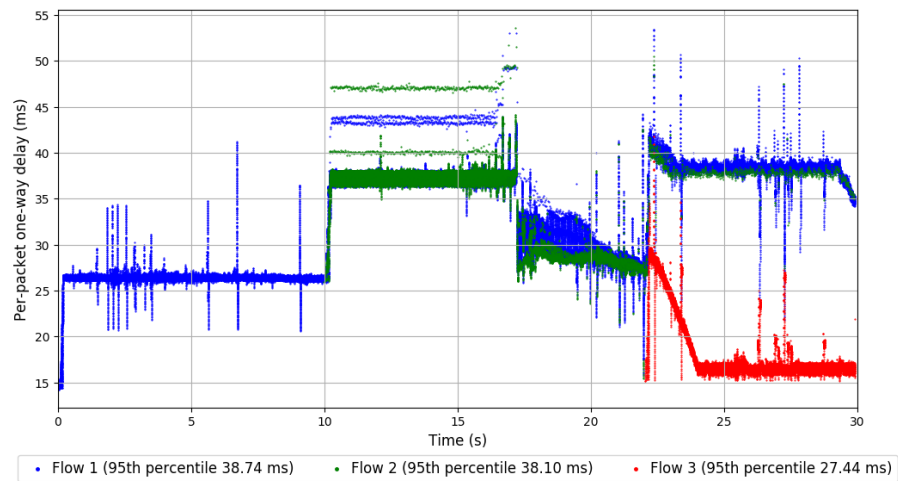
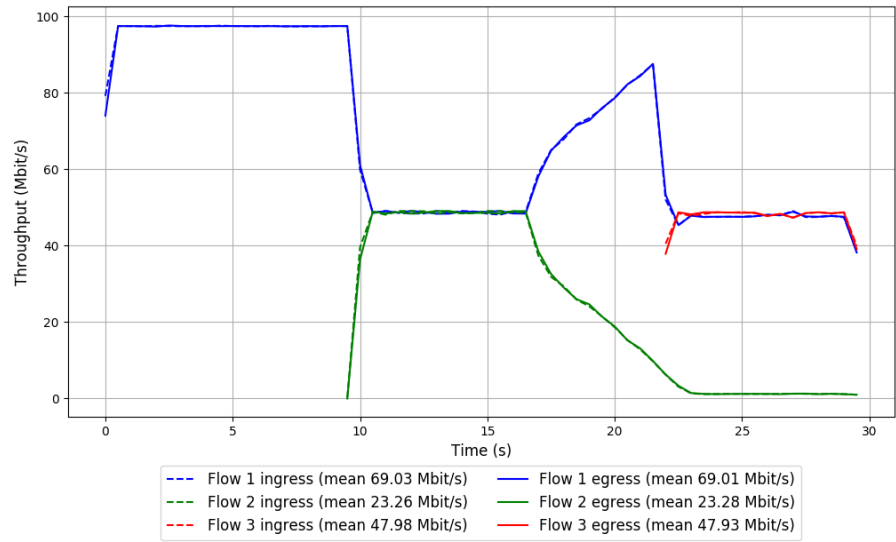
Average throughput: 47.93 Mbit/s

95th percentile per-packet one-way delay: 27.441 ms

Loss rate: 0.33%



# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 07:15:09 +0000

End at: Tue, 01 Aug 2017 07:15:39 +0000

Local clock offset: -2.709 ms

Remote clock offset: -5.494 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:47:56 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.57 Mbit/s

95th percentile per-packet one-way delay: 37.899 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 29.597 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 47.67 Mbit/s

95th percentile per-packet one-way delay: 34.061 ms

Loss rate: 0.08%

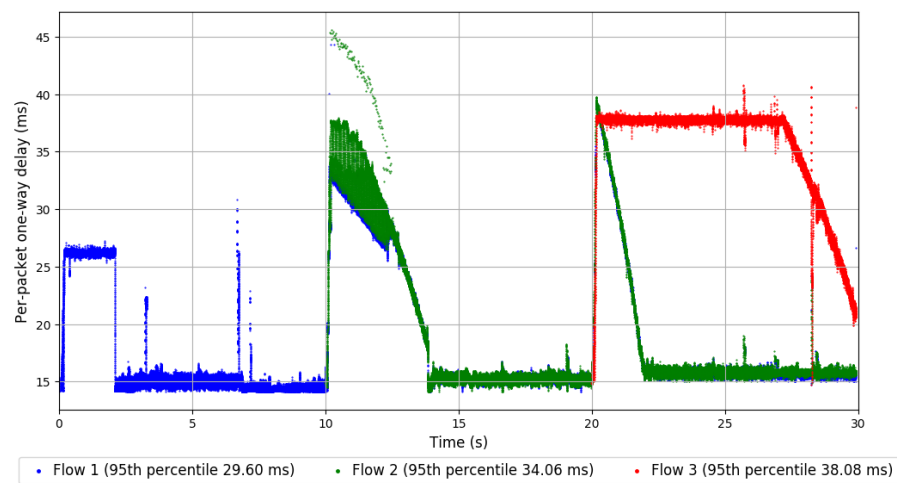
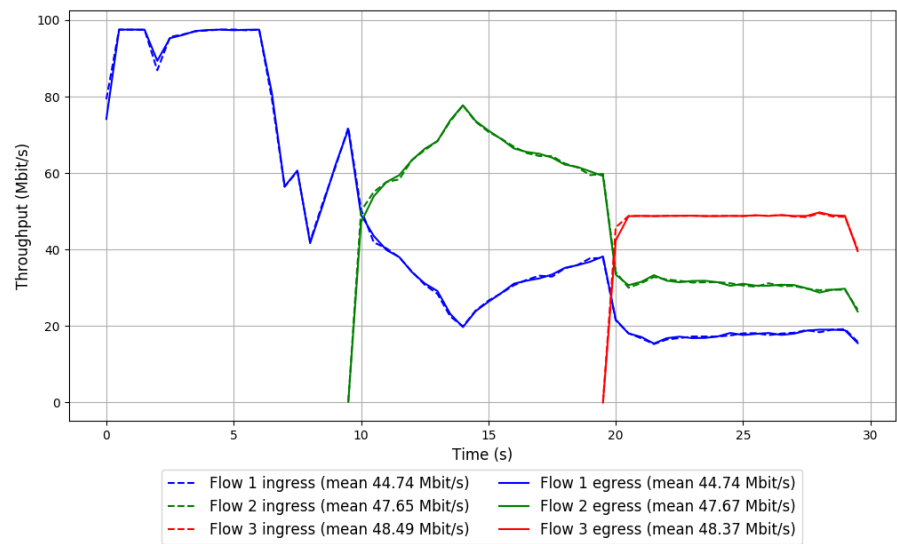
-- Flow 3:

Average throughput: 48.37 Mbit/s

95th percentile per-packet one-way delay: 38.076 ms

Loss rate: 0.30%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 07:33:18 +0000

End at: Tue, 01 Aug 2017 07:33:48 +0000

Local clock offset: -2.297 ms

Remote clock offset: -5.742 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:03 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 60.812 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 60.769 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 38.140 ms

Loss rate: 0.13%

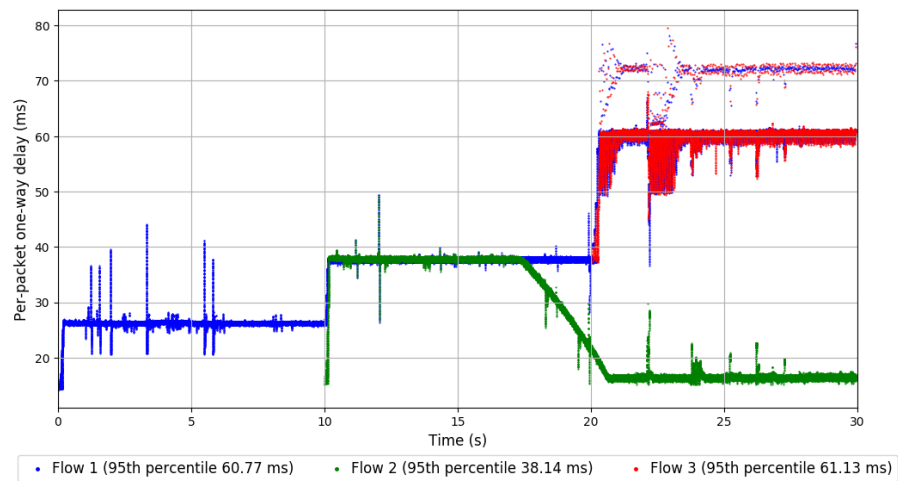
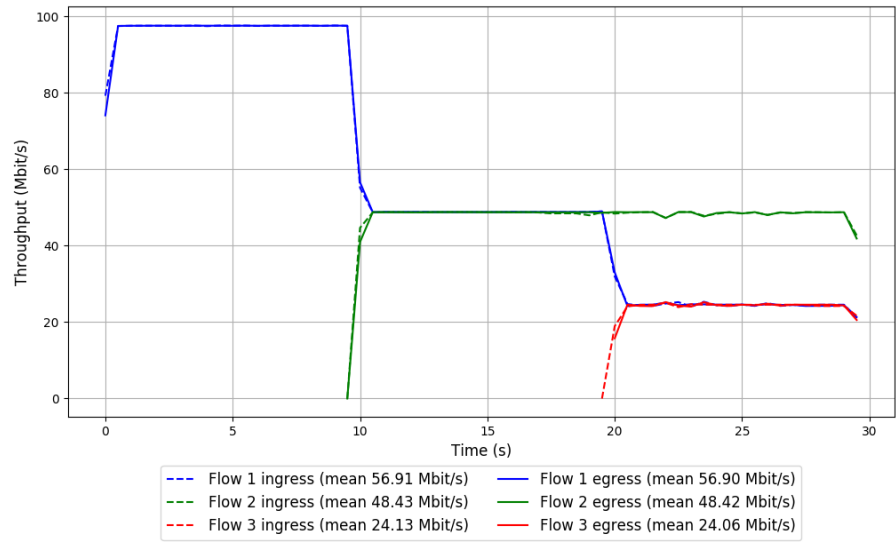
-- Flow 3:

Average throughput: 24.06 Mbit/s

95th percentile per-packet one-way delay: 61.126 ms

Loss rate: 0.74%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Tue, 01 Aug 2017 04:53:25 +0000

End at: Tue, 01 Aug 2017 04:53:55 +0000

Local clock offset: 1.959 ms

Remote clock offset: -3.132 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:09 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 61.087 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 55.90 Mbit/s

95th percentile per-packet one-way delay: 60.955 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 61.336 ms

Loss rate: 0.19%

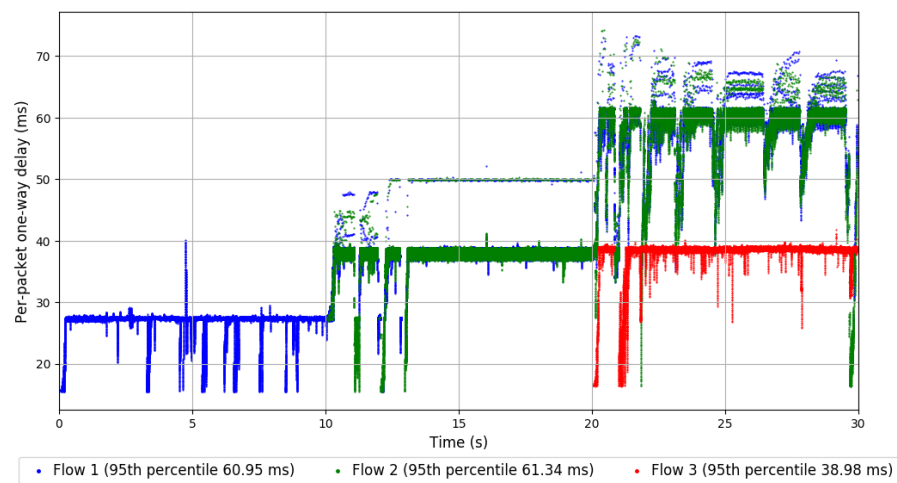
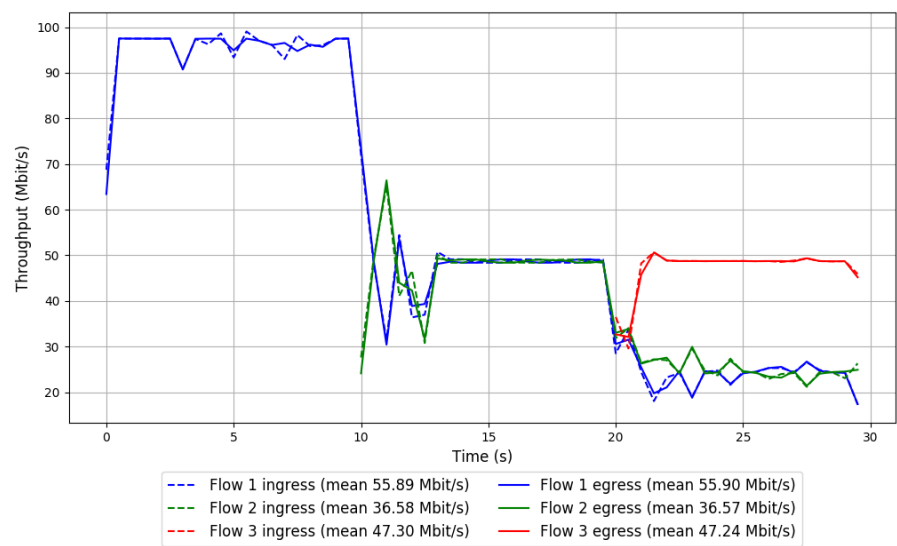
-- Flow 3:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 38.975 ms

Loss rate: 0.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Tue, 01 Aug 2017 05:11:28 +0000

End at: Tue, 01 Aug 2017 05:11:58 +0000

Local clock offset: 2.363 ms

Remote clock offset: -2.303 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 49.939 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 59.17 Mbit/s

95th percentile per-packet one-way delay: 49.681 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 50.000 ms

Loss rate: 0.23%

-- Flow 3:

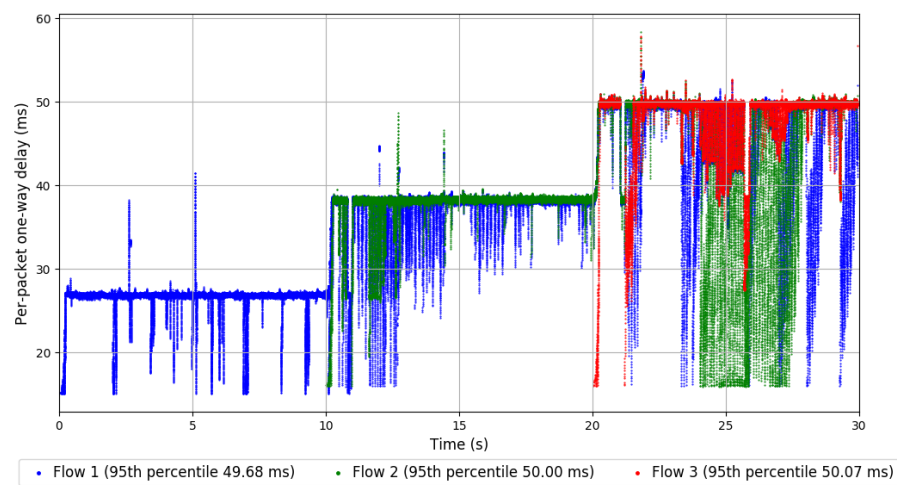
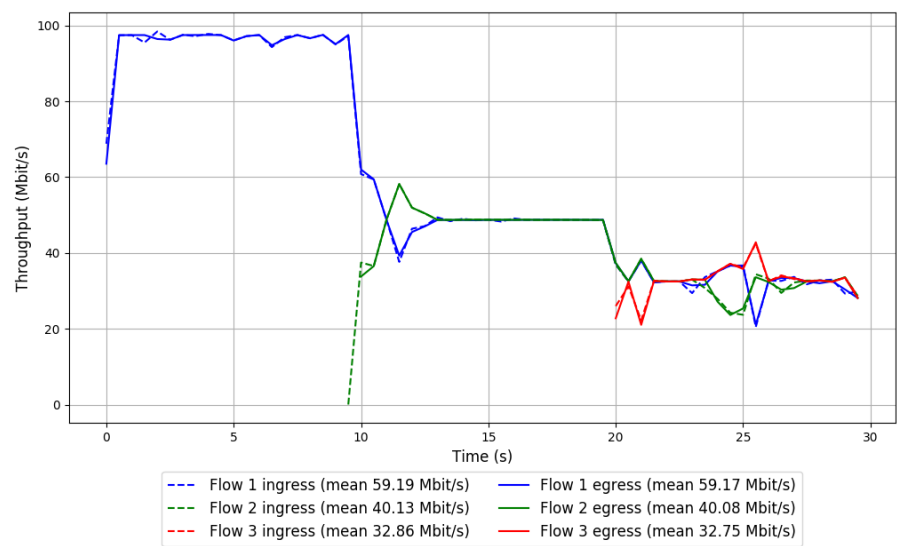
Average throughput: 32.75 Mbit/s

95th percentile per-packet one-way delay: 50.074 ms

Loss rate: 0.58%



Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Tue, 01 Aug 2017 05:29:55 +0000

End at: Tue, 01 Aug 2017 05:30:25 +0000

Local clock offset: -0.696 ms

Remote clock offset: -2.957 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:22 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.77 Mbit/s

95th percentile per-packet one-way delay: 58.433 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 64.85 Mbit/s

95th percentile per-packet one-way delay: 36.409 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 36.35 Mbit/s

95th percentile per-packet one-way delay: 58.669 ms

Loss rate: 0.22%

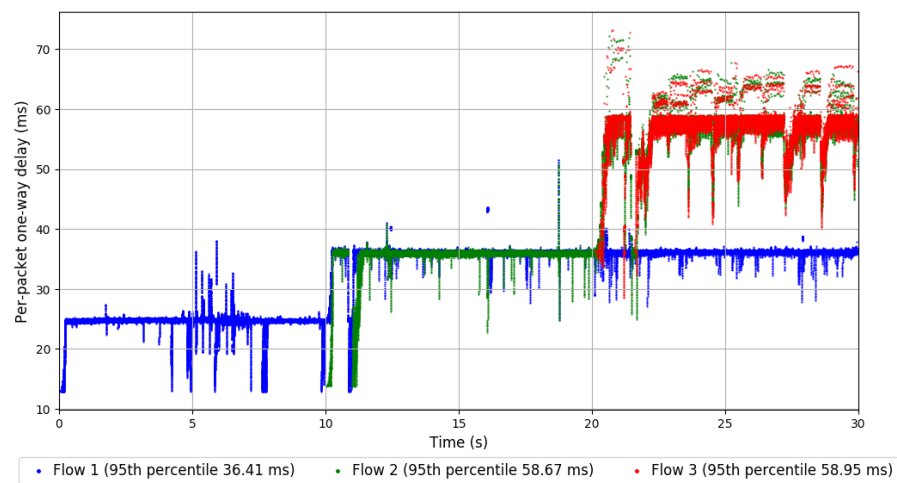
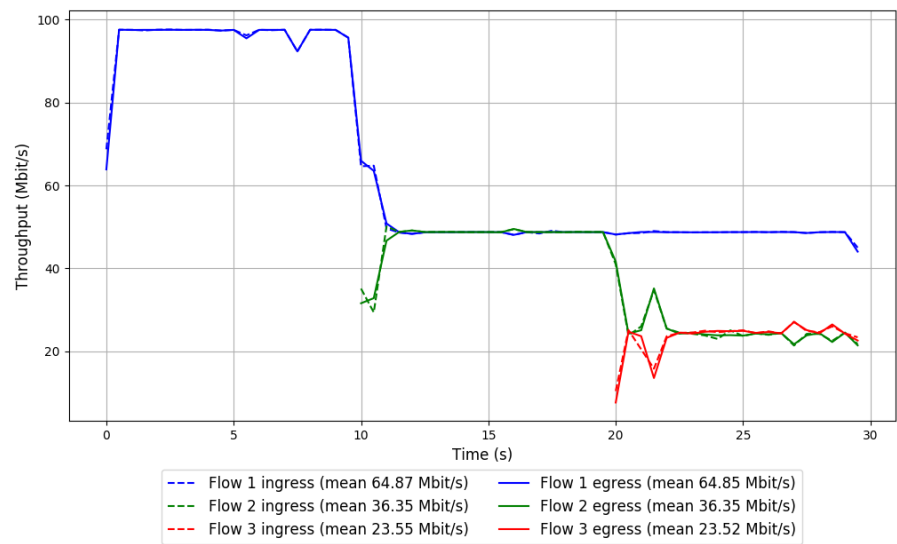
-- Flow 3:

Average throughput: 23.52 Mbit/s

95th percentile per-packet one-way delay: 58.949 ms

Loss rate: 0.74%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Tue, 01 Aug 2017 05:48:11 +0000

End at: Tue, 01 Aug 2017 05:48:41 +0000

Local clock offset: 2.174 ms

Remote clock offset: -4.937 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:30 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.68 Mbit/s

95th percentile per-packet one-way delay: 52.944 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 52.795 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 52.924 ms

Loss rate: 0.23%

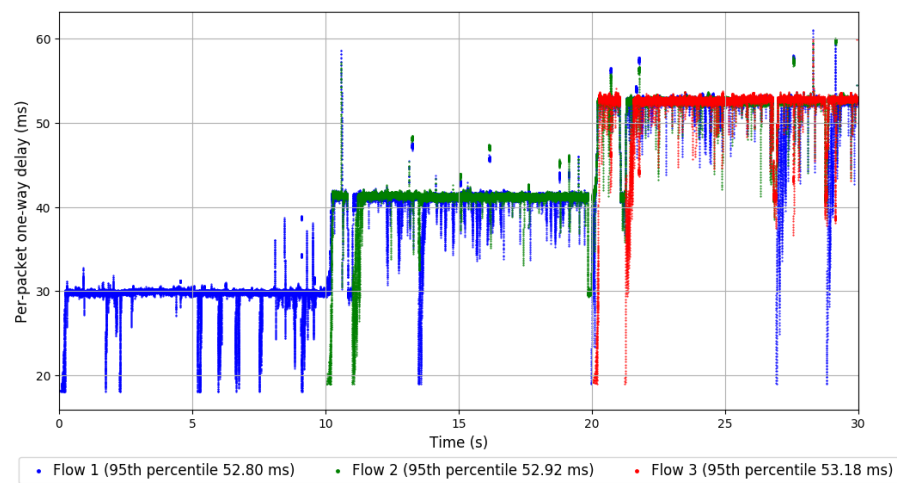
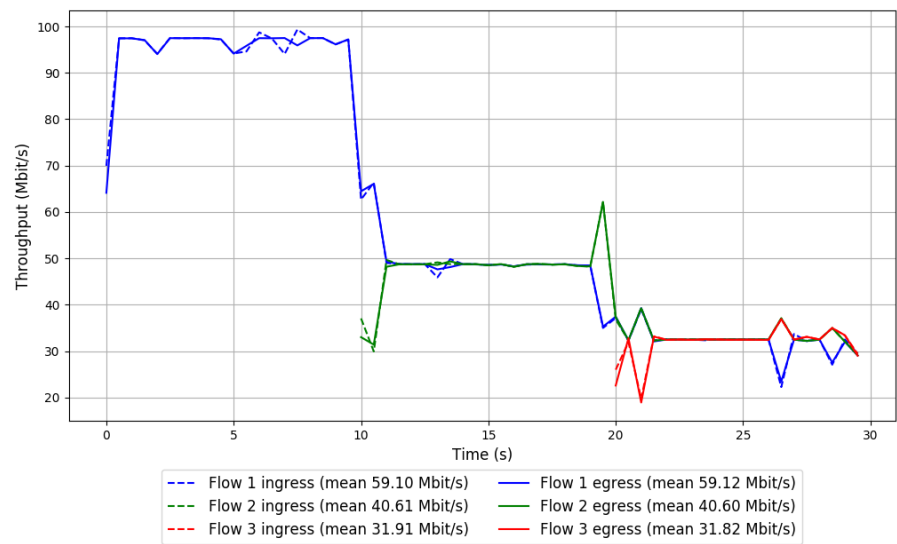
-- Flow 3:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 53.178 ms

Loss rate: 0.60%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Tue, 01 Aug 2017 06:06:26 +0000

End at: Tue, 01 Aug 2017 06:06:56 +0000

Local clock offset: 0.679 ms

Remote clock offset: -3.031 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:35 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 60.285 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 52.86 Mbit/s

95th percentile per-packet one-way delay: 60.081 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 52.07 Mbit/s

95th percentile per-packet one-way delay: 38.499 ms

Loss rate: 0.22%

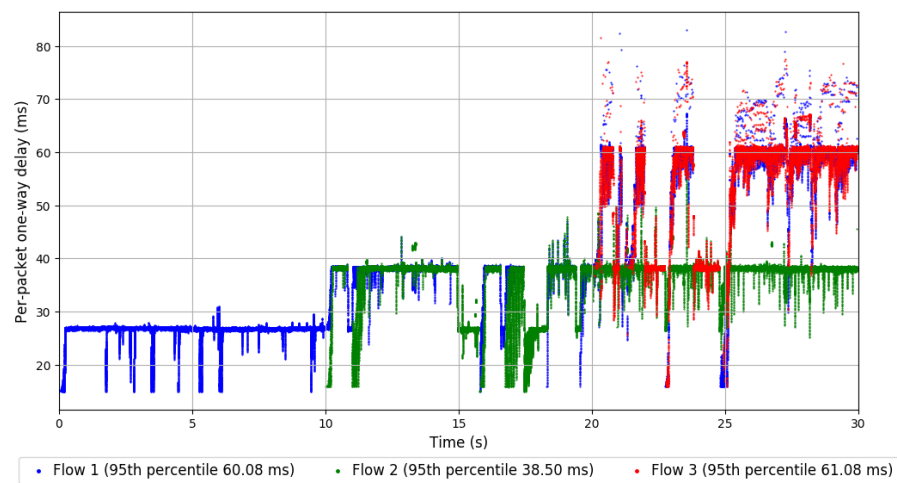
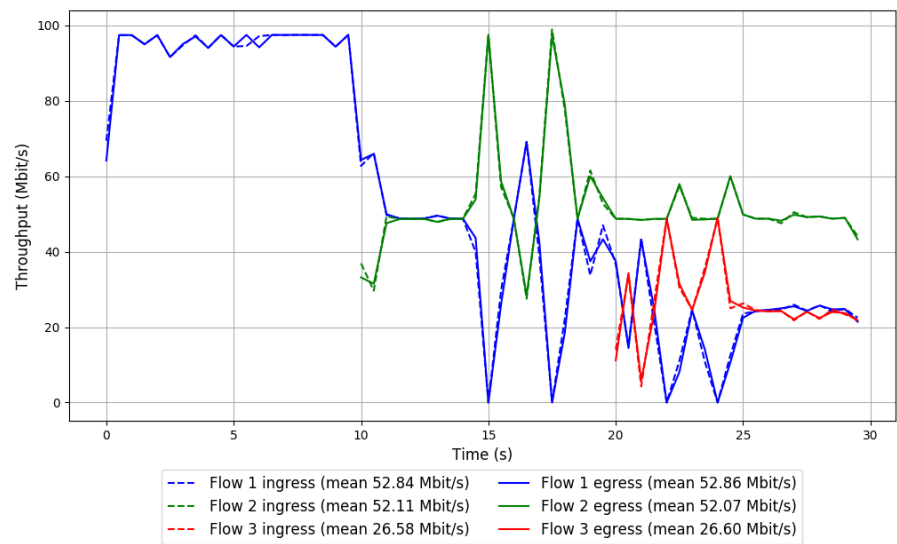
-- Flow 3:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 61.084 ms

Loss rate: 0.61%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: Tue, 01 Aug 2017 06:24:17 +0000

End at: Tue, 01 Aug 2017 06:24:47 +0000

Local clock offset: 0.166 ms

Remote clock offset: -3.292 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:42 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.61 Mbit/s

95th percentile per-packet one-way delay: 60.648 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 60.591 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 38.347 ms

Loss rate: 0.23%

-- Flow 3:

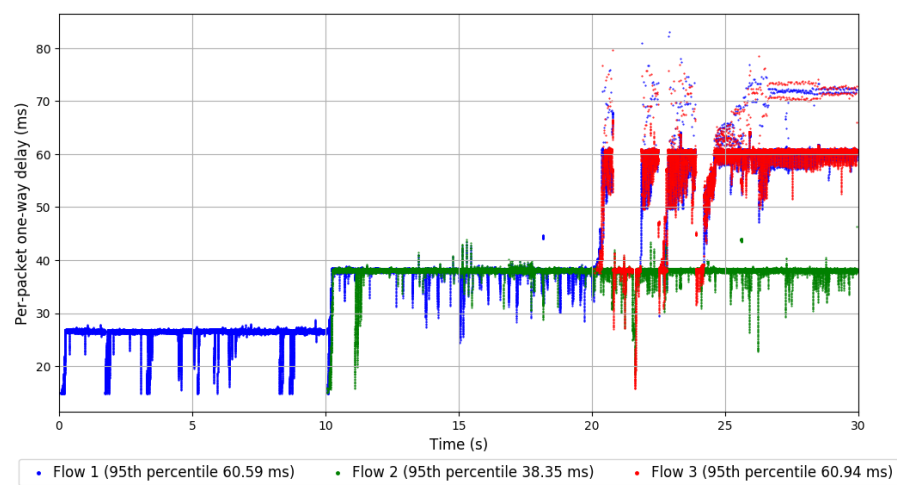
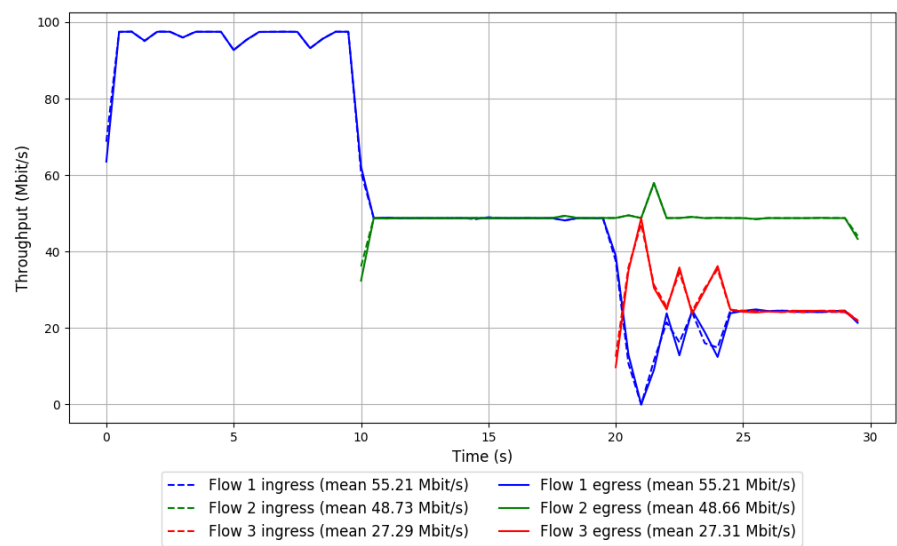
Average throughput: 27.31 Mbit/s

95th percentile per-packet one-way delay: 60.936 ms

Loss rate: 0.64%



Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Tue, 01 Aug 2017 06:42:23 +0000

End at: Tue, 01 Aug 2017 06:42:53 +0000

Local clock offset: 0.026 ms

Remote clock offset: -3.841 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:48 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 62.325 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 62.183 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 37.02 Mbit/s

95th percentile per-packet one-way delay: 62.570 ms

Loss rate: 0.23%

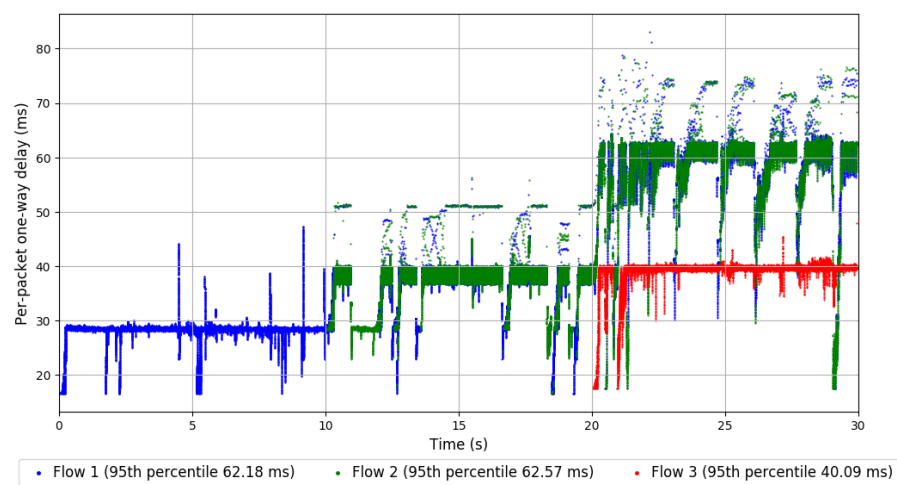
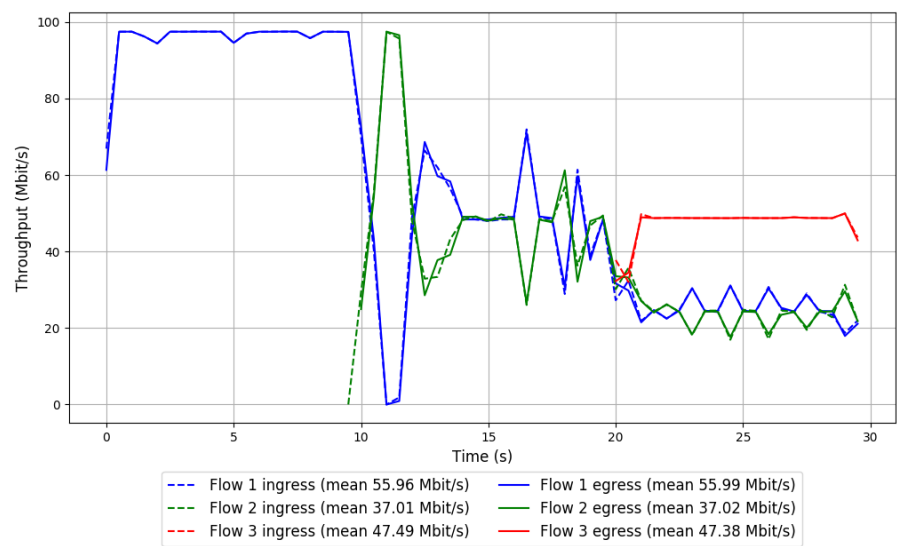
-- Flow 3:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 40.085 ms

Loss rate: 0.50%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Tue, 01 Aug 2017 07:00:31 +0000

End at: Tue, 01 Aug 2017 07:01:01 +0000

Local clock offset: -1.747 ms

Remote clock offset: -5.765 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:48:55 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 60.857 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 57.24 Mbit/s

95th percentile per-packet one-way delay: 60.251 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 39.372 ms

Loss rate: 0.24%

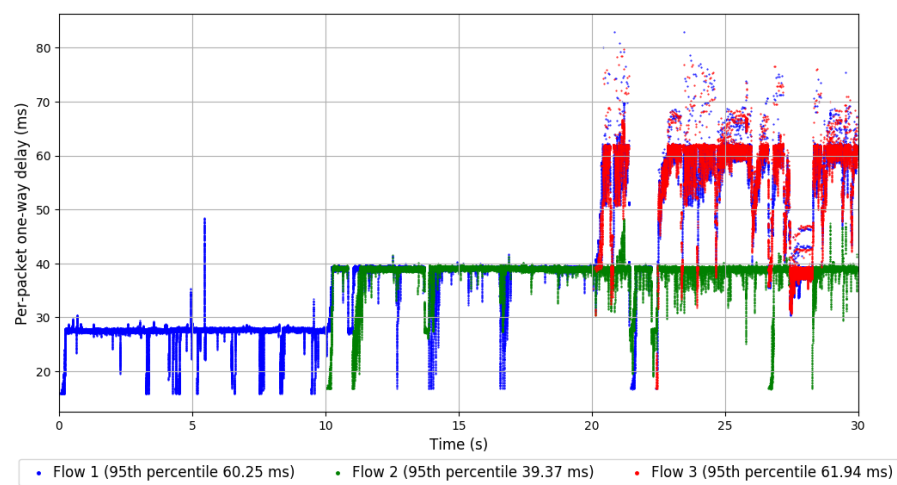
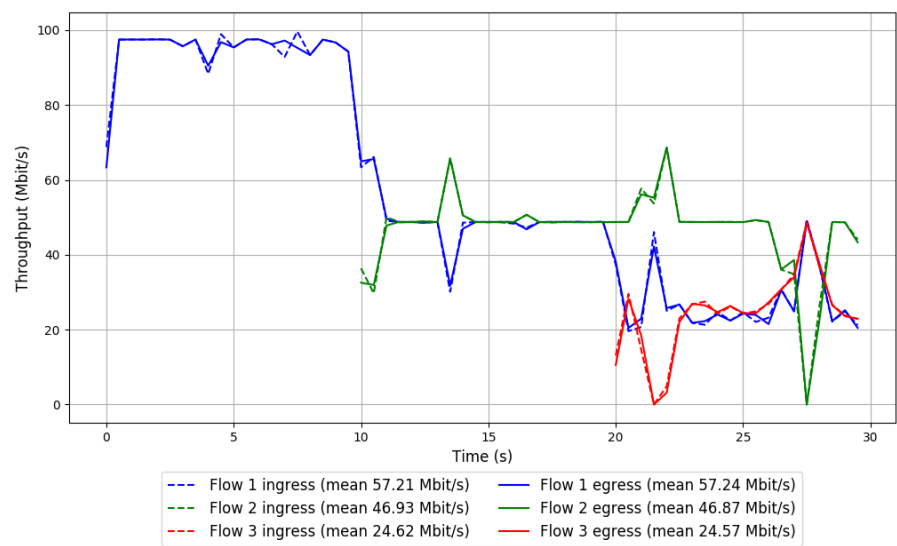
-- Flow 3:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 61.944 ms

Loss rate: 0.62%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: Tue, 01 Aug 2017 07:18:51 +0000

End at: Tue, 01 Aug 2017 07:19:21 +0000

Local clock offset: -0.709 ms

Remote clock offset: -4.466 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:01 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 49.970 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 49.637 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.42 Mbit/s

95th percentile per-packet one-way delay: 50.025 ms

Loss rate: 0.23%

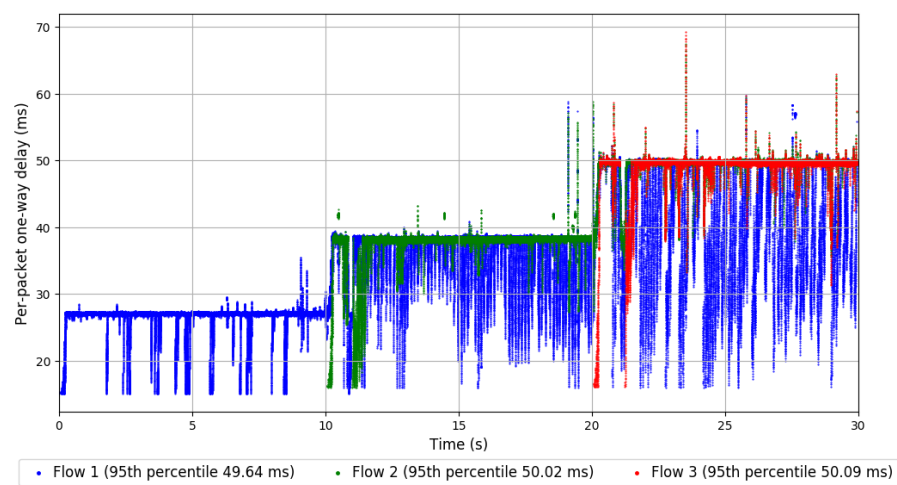
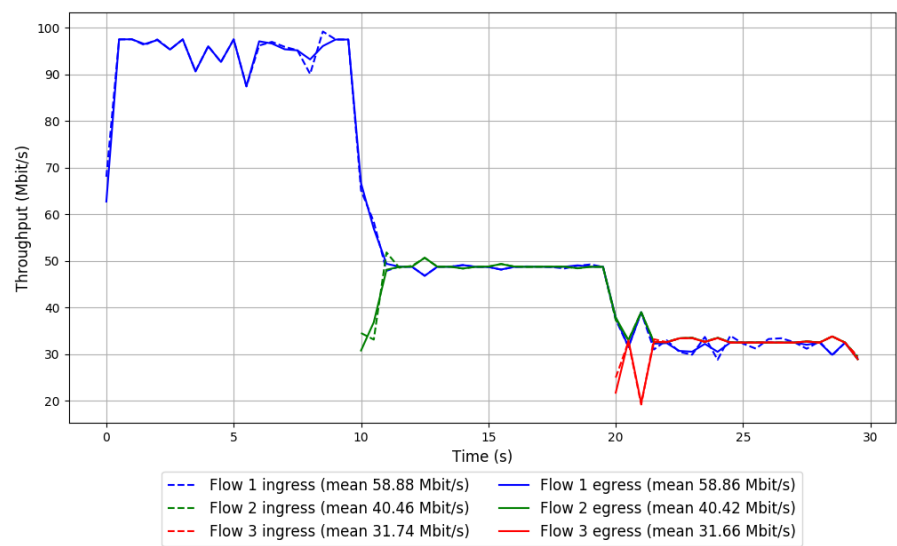
-- Flow 3:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 50.085 ms

Loss rate: 0.60%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Tue, 01 Aug 2017 07:36:53 +0000

End at: Tue, 01 Aug 2017 07:37:23 +0000

Local clock offset: -0.475 ms

Remote clock offset: -5.229 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 50.417 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 57.79 Mbit/s

95th percentile per-packet one-way delay: 50.310 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 41.96 Mbit/s

95th percentile per-packet one-way delay: 50.434 ms

Loss rate: 0.23%

-- Flow 3:

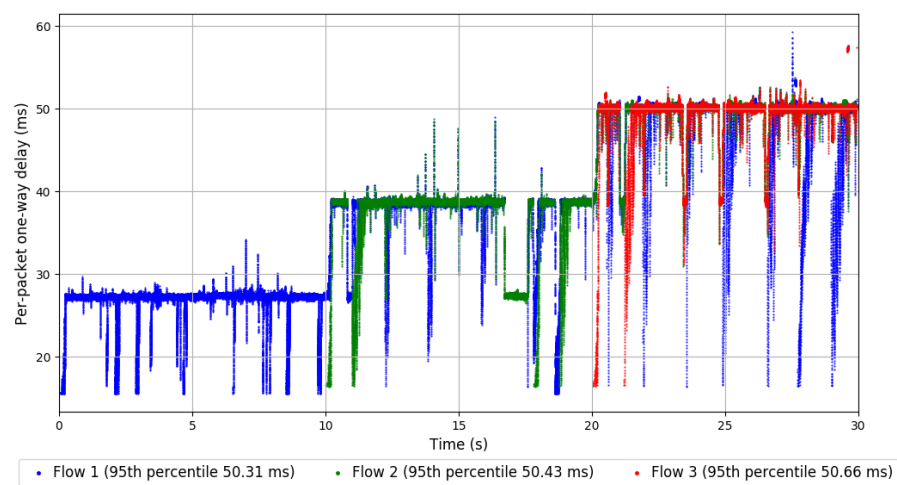
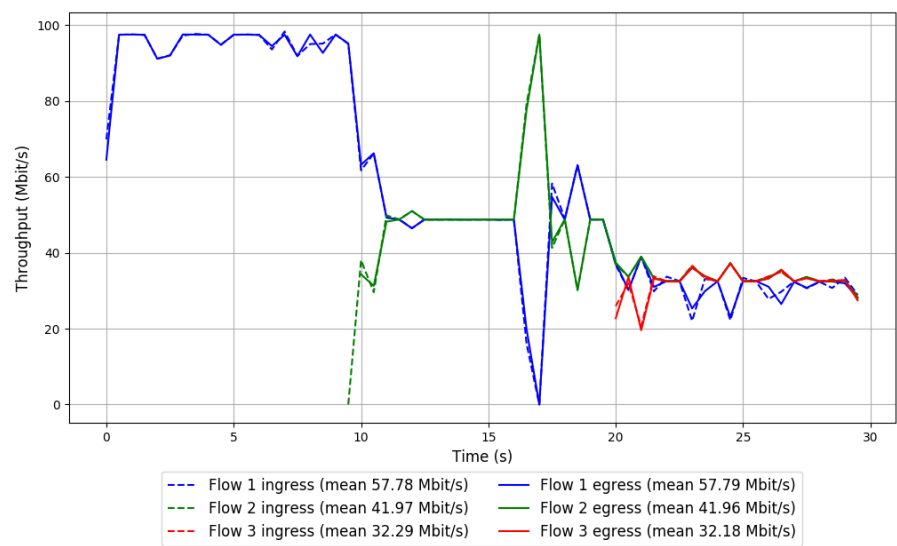
Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 50.661 ms

Loss rate: 0.59%



Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 04:58:25 +0000

End at: Tue, 01 Aug 2017 04:58:55 +0000

Local clock offset: -0.474 ms

Remote clock offset: -3.732 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 15.147 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 14.682 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 15.210 ms

Loss rate: 0.76%

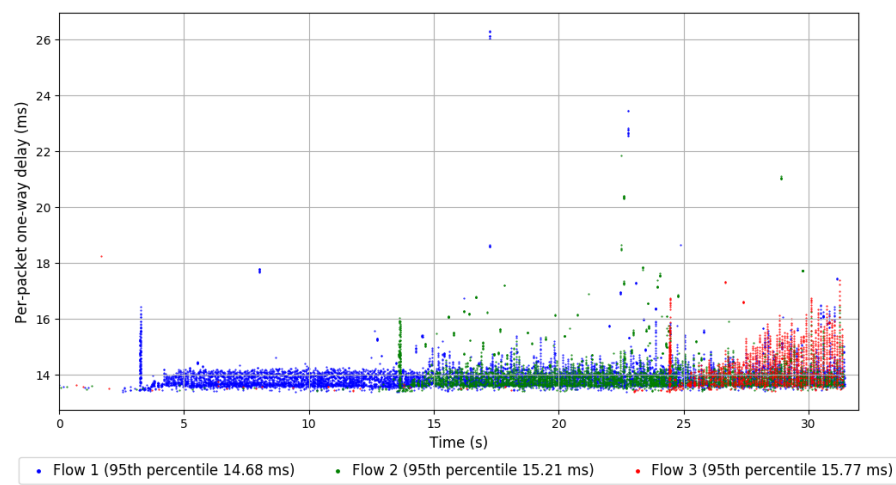
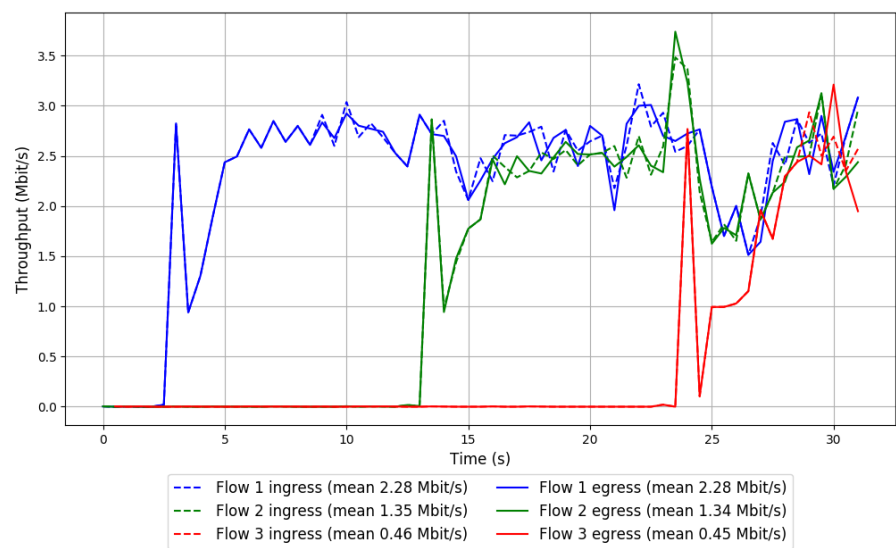
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 15.772 ms

Loss rate: 2.18%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 05:16:26 +0000

End at: Tue, 01 Aug 2017 05:16:56 +0000

Local clock offset: 1.664 ms

Remote clock offset: -4.551 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 17.834 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 18.060 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 17.600 ms

Loss rate: 0.41%

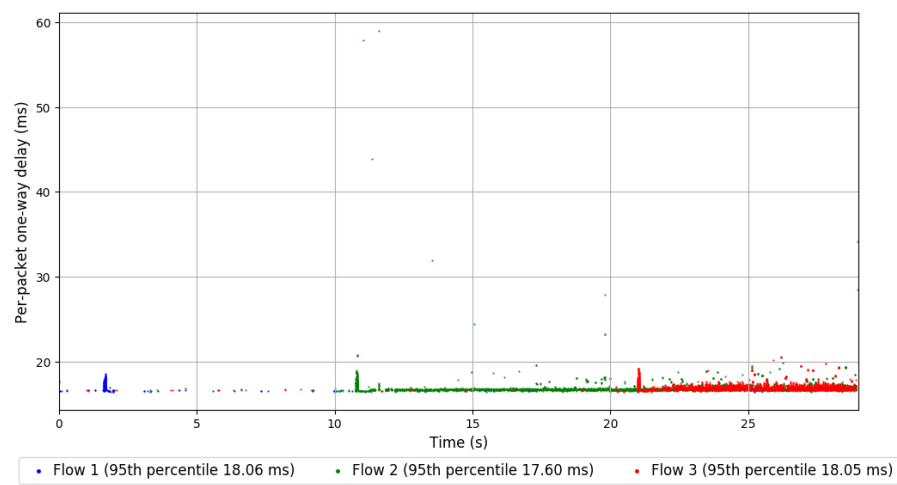
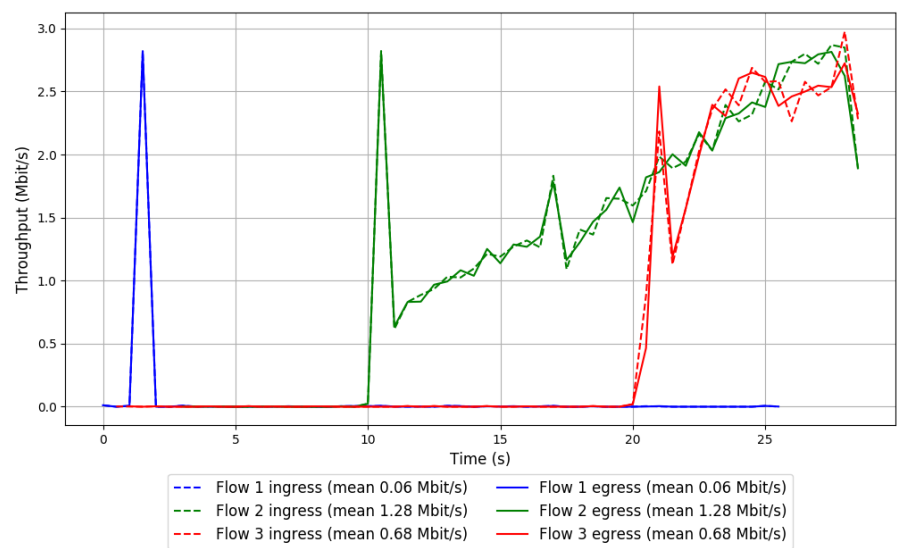
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 18.053 ms

Loss rate: 0.54%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 05:34:51 +0000

End at: Tue, 01 Aug 2017 05:35:21 +0000

Local clock offset: 1.755 ms

Remote clock offset: -5.863 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 26.893 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 26.759 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 27.093 ms

Loss rate: 0.15%

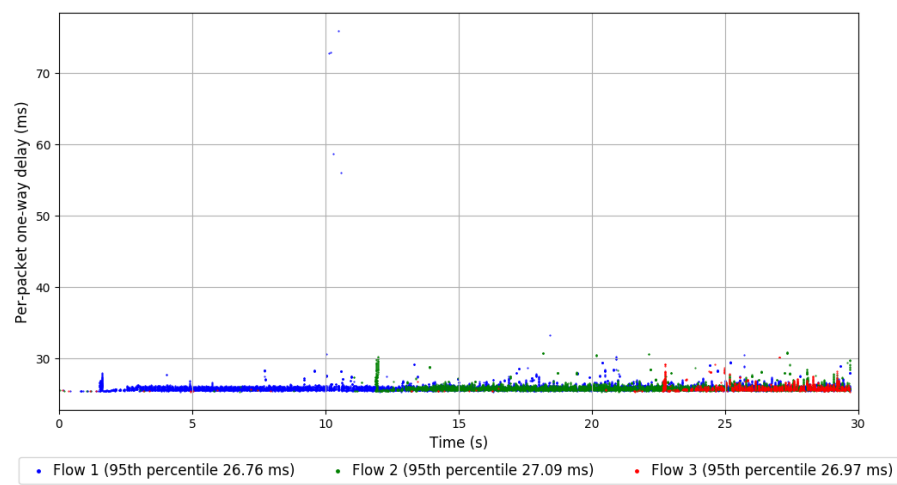
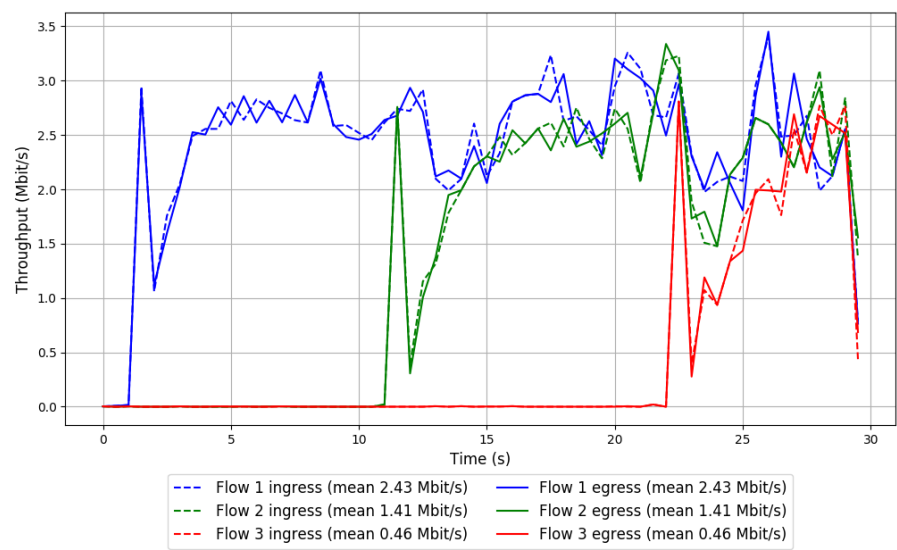
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 26.971 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 05:53:09 +0000

End at: Tue, 01 Aug 2017 05:53:39 +0000

Local clock offset: 1.521 ms

Remote clock offset: -5.1 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 19.101 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 18.972 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 19.176 ms

Loss rate: 0.60%

-- Flow 3:

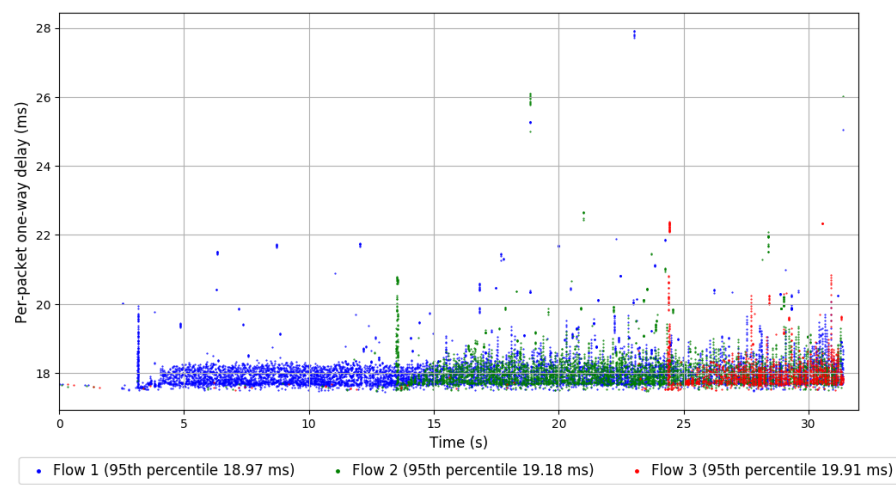
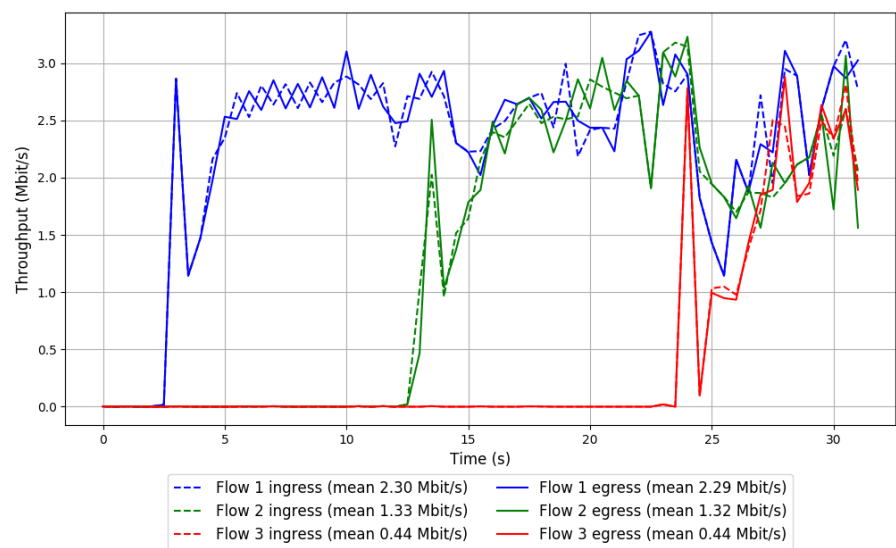
Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 19.905 ms

Loss rate: 1.01%



Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 06:11:21 +0000

End at: Tue, 01 Aug 2017 06:11:51 +0000

Local clock offset: -0.568 ms

Remote clock offset: -3.022 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:11 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 15.183 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 15.074 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 15.328 ms

Loss rate: 0.00%

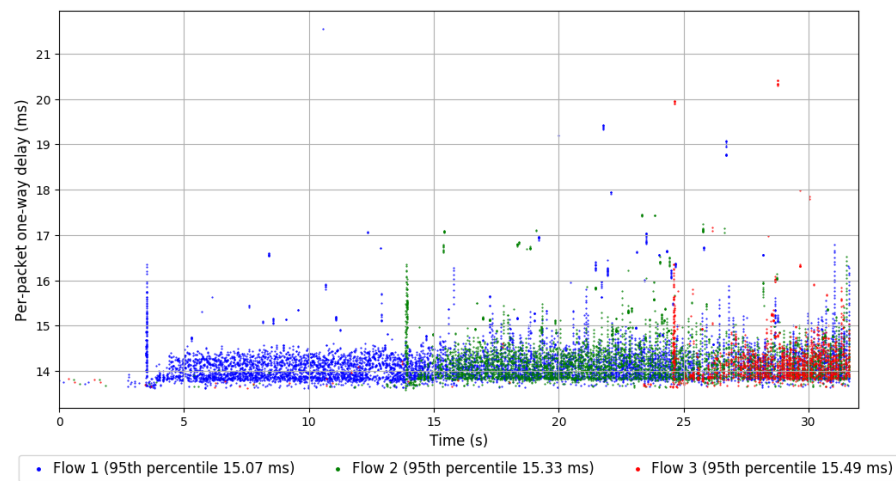
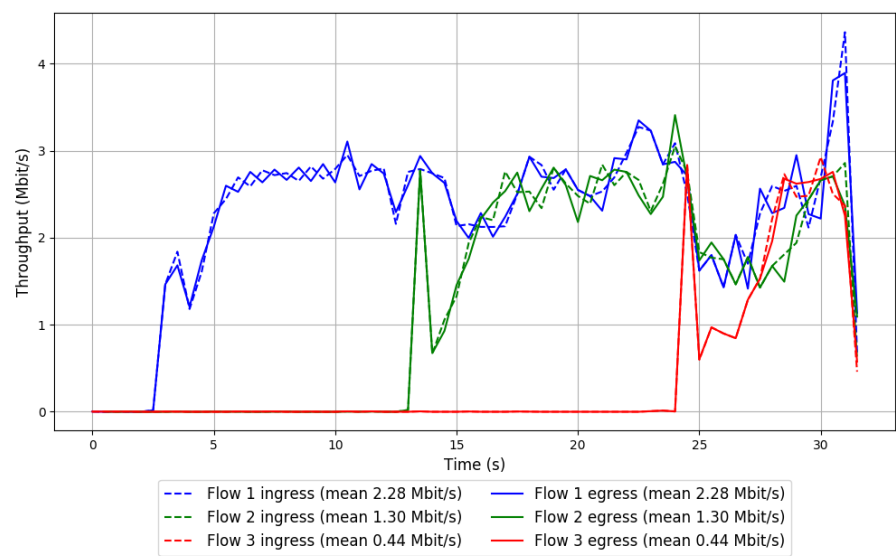
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 15.491 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 06:29:13 +0000

End at: Tue, 01 Aug 2017 06:29:43 +0000

Local clock offset: -0.514 ms

Remote clock offset: -3.394 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:13 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 22.884 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 22.723 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 23.380 ms

Loss rate: 0.36%

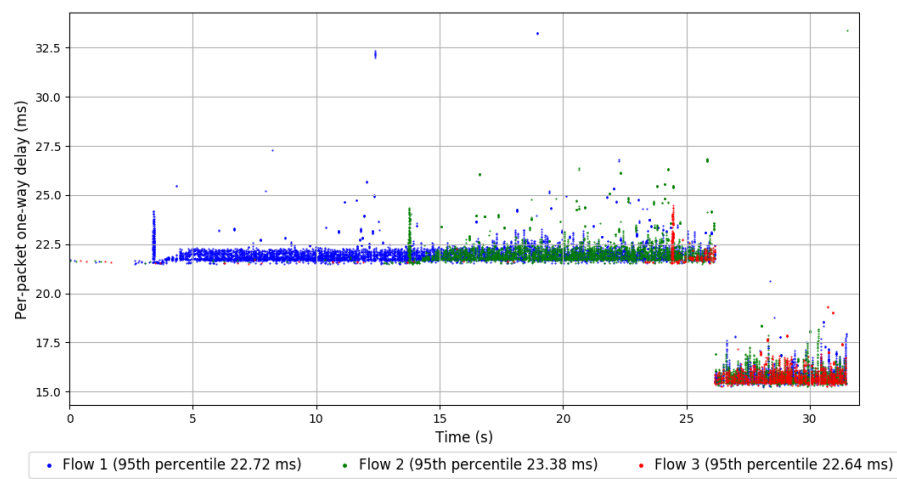
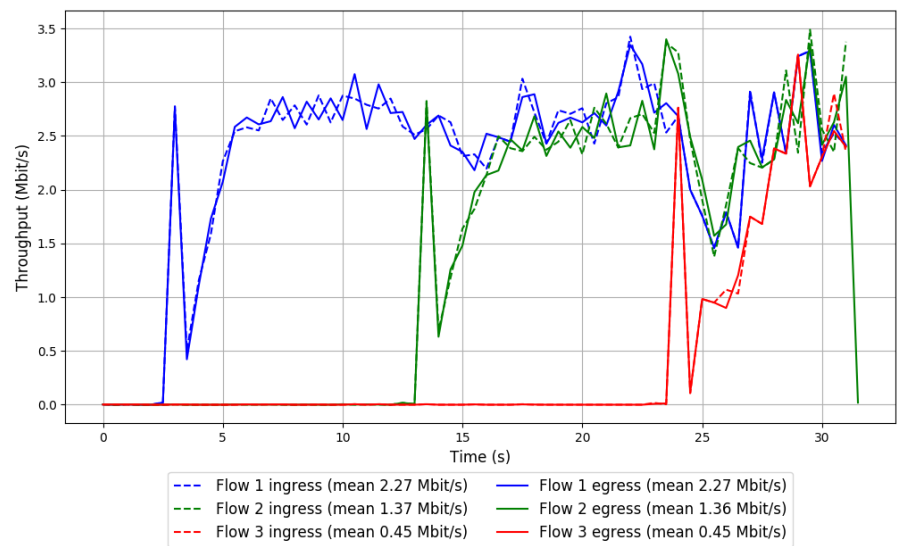
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 22.643 ms

Loss rate: 1.06%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 06:47:32 +0000

End at: Tue, 01 Aug 2017 06:48:02 +0000

Local clock offset: -4.501 ms

Remote clock offset: -6.894 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:13 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 15.085 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 15.576 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 14.893 ms

Loss rate: 0.00%

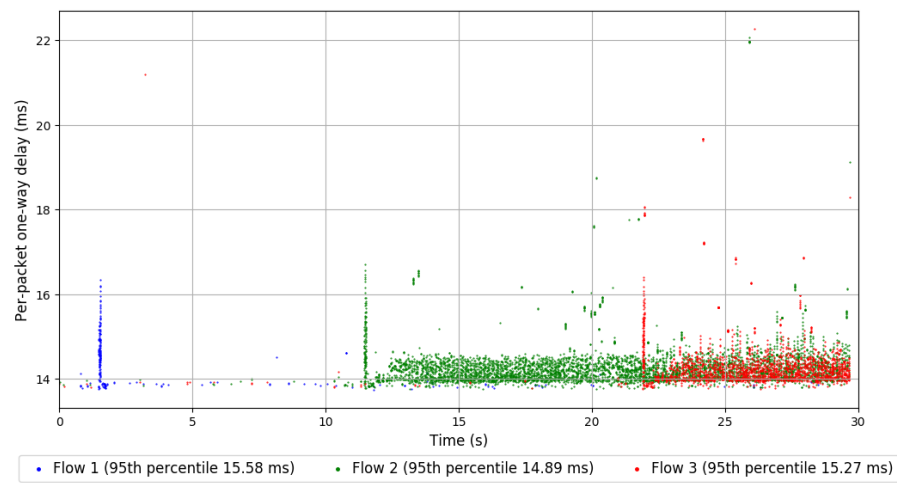
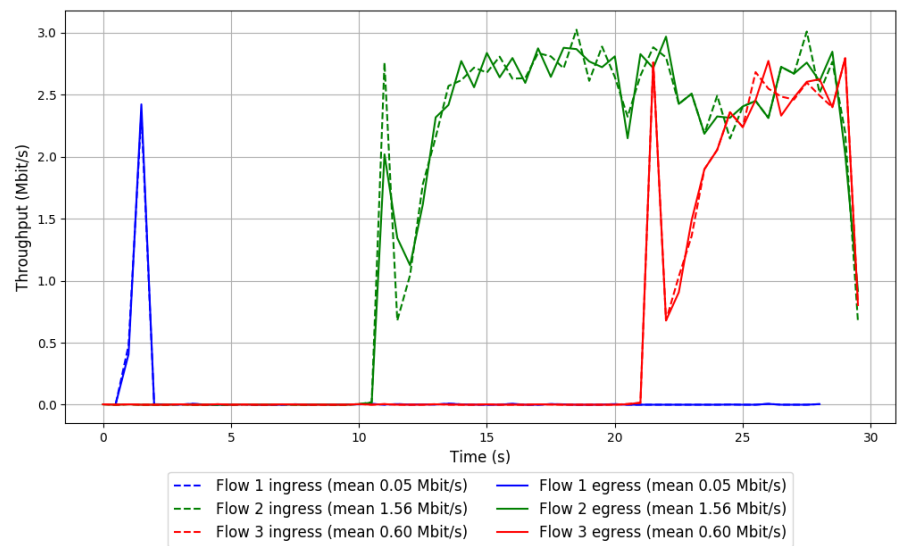
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 15.266 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 07:05:30 +0000

End at: Tue, 01 Aug 2017 07:06:00 +0000

Local clock offset: -3.33 ms

Remote clock offset: -4.476 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:15 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 15.745 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 15.507 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 15.960 ms

Loss rate: 0.27%

-- Flow 3:

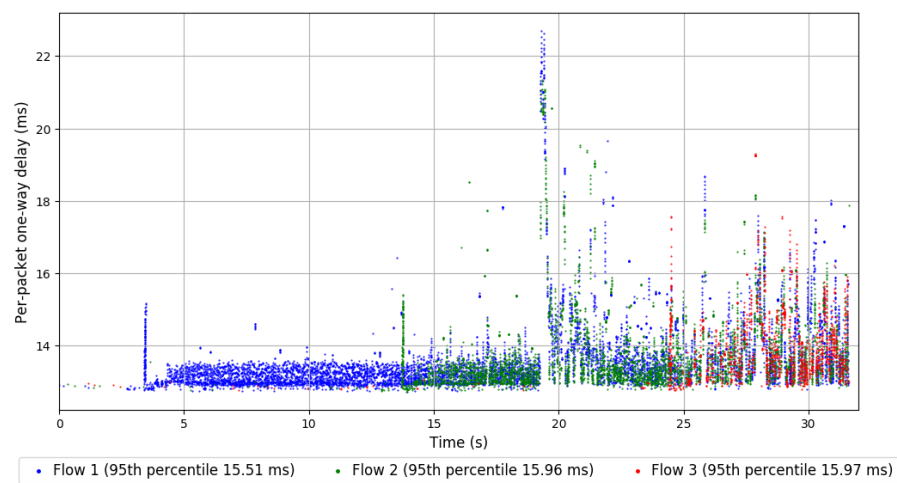
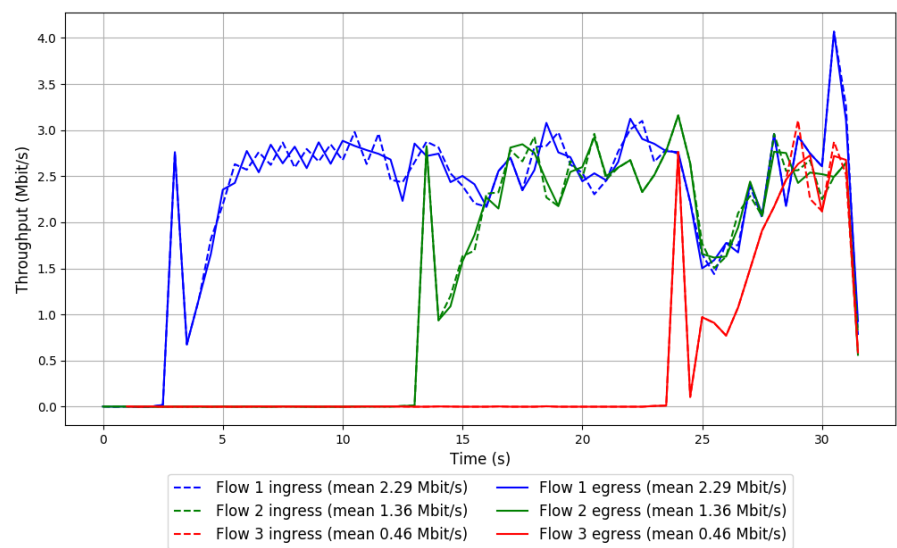
Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 15.969 ms

Loss rate: 0.00%



Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 07:23:47 +0000

End at: Tue, 01 Aug 2017 07:24:17 +0000

Local clock offset: -0.718 ms

Remote clock offset: -4.955 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:15 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 16.918 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 16.738 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 17.077 ms

Loss rate: 0.02%

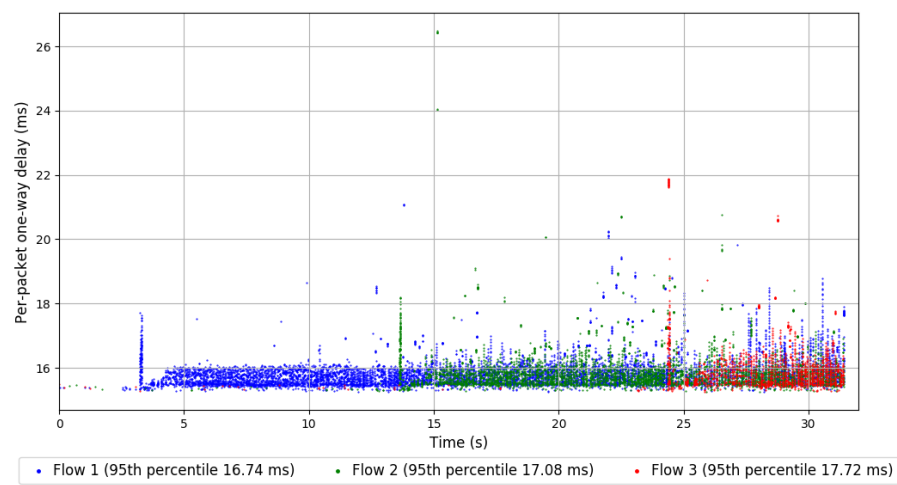
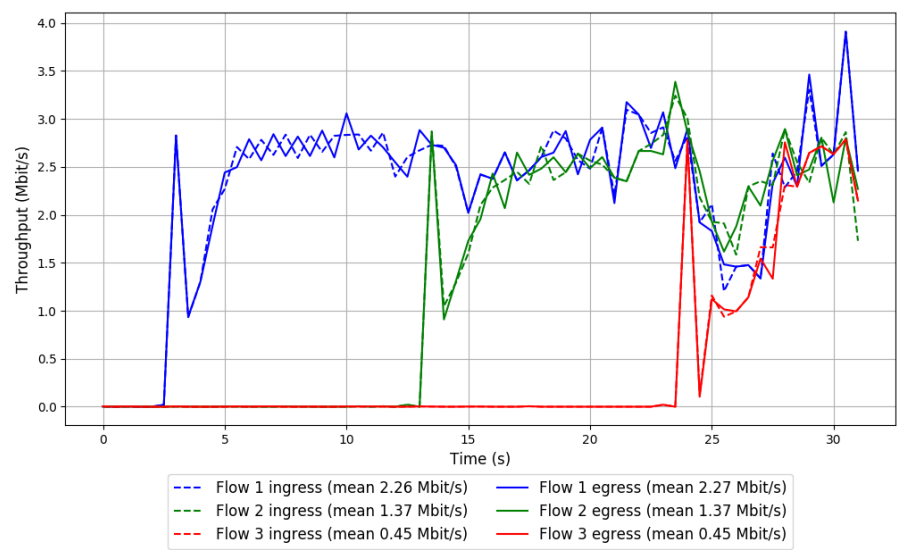
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 17.722 ms

Loss rate: 0.01%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 07:41:47 +0000

End at: Tue, 01 Aug 2017 07:42:17 +0000

Local clock offset: -2.112 ms

Remote clock offset: -5.184 ms

# Below is generated by plot.py at Tue, 01 Aug 2017 08:49:16 +0000

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 14.935 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 14.775 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 15.046 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 15.271 ms

Loss rate: 0.01%

Run 10: Report of WebRTC media — Data Link

