

Pantheon Summary (Generated at Sat, 29 Jul 2017 12:10:58 +0000 with pantheon version 33c7b8d34ce04c76596315aa973f0b30d6129d55)

Repeated the test of 15 congestion control schemes 10 times.

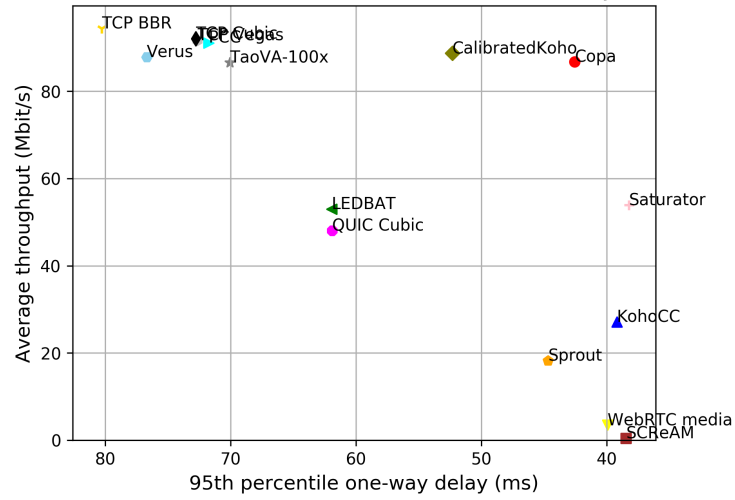
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Data path: Mexico Ethernet (*remote*) → AWS California 2 Ethernet (*local*).

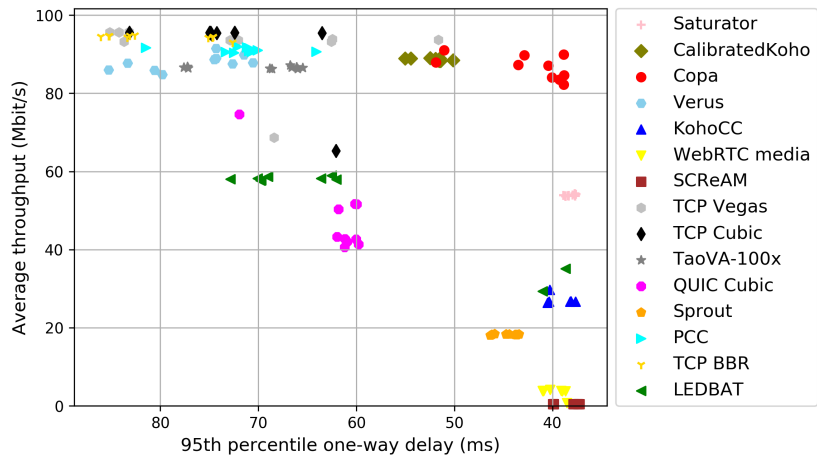
NTP offset measured against time.stanford.edu and has been applied to correct the timestamps in logs.

```
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico Ethernet to AWS California 2 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	56.85	39.82	33.50	77.76	76.26	74.17	0.32	0.51	1.27
CalibratedKoho	10	61.09	32.77	17.50	51.85	52.97	52.40	0.23	0.47	1.15
Copa	10	53.71	34.04	31.34	40.59	44.65	44.69	0.16	0.49	0.94
TCP Cubic	10	54.59	39.76	33.46	67.45	72.61	72.65	0.33	0.51	1.35
KohoCC	10	13.46	13.33	13.10	38.88	39.16	39.12	0.35	0.46	0.92
LEDBAT	10	31.49	26.26	12.20	60.96	61.85	47.91	0.46	0.78	1.81
PCC	10	58.53	37.50	23.32	67.92	68.55	74.63	0.68	1.14	1.10
QUIC Cubic	10	3.31	47.26	38.99	41.79	61.67	61.85	0.04	0.55	1.16
Saturator	10	27.04	27.04	26.78	38.17	37.98	38.39	0.31	0.44	0.91
SCReAM	10	0.22	0.22	0.22	38.04	37.93	38.01	0.27	0.44	0.81
Sprout	10	9.26	9.14	8.97	44.41	44.90	45.03	0.33	0.56	1.07
TaoVA-100x	10	50.09	40.45	28.94	67.87	66.26	70.07	0.26	0.51	1.35
TCP Vegas	10	59.24	33.05	31.66	67.43	64.99	68.66	0.26	0.53	1.36
Verus	10	53.35	39.00	26.14	71.15	73.54	78.78	0.30	0.53	1.09
WebRTC media	10	1.95	1.19	0.47	39.70	40.02	40.12	0.43	0.50	2.08

Run 1: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 08:07:32 +0000

End at: Sat, 29 Jul 2017 08:08:02 +0000

Local clock offset: 0.704 ms

Remote clock offset: -2.601 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:58:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.69 Mbit/s

95th percentile per-packet one-way delay: 85.266 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 54.74 Mbit/s

95th percentile per-packet one-way delay: 85.214 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 85.458 ms

Loss rate: 0.45%

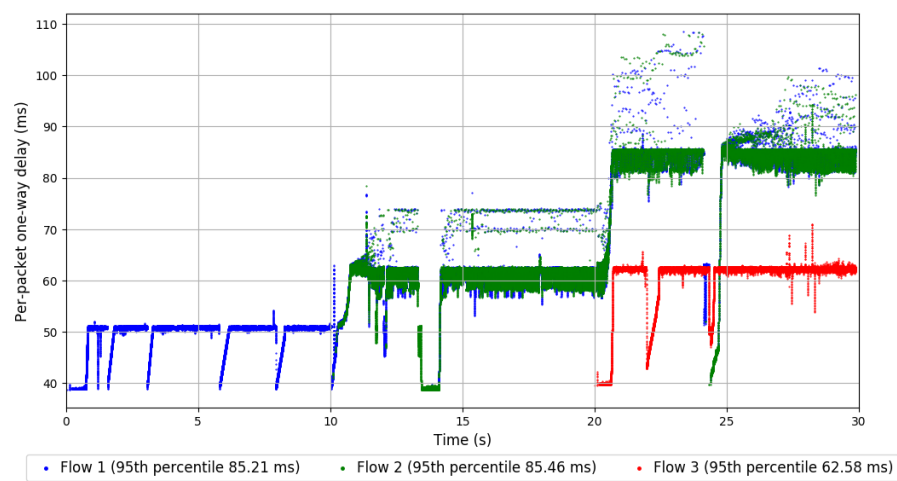
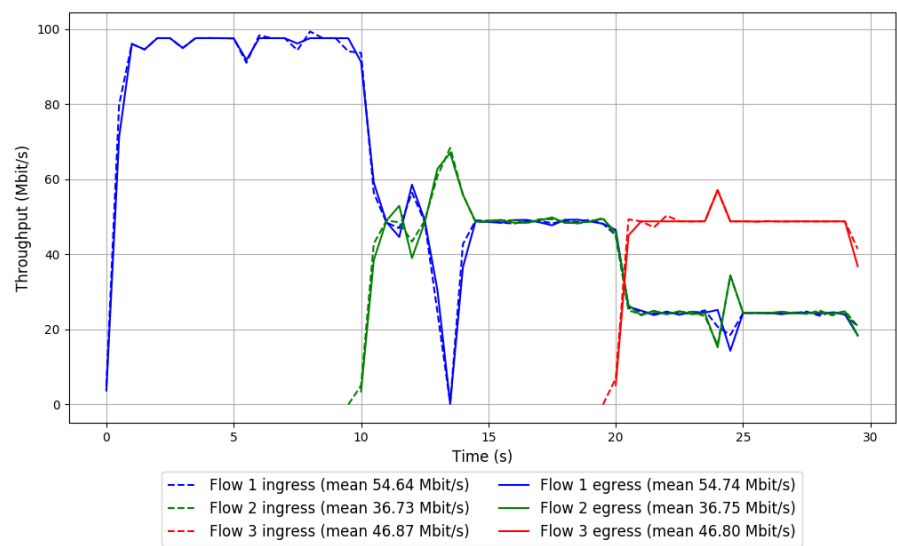
-- Flow 3:

Average throughput: 46.80 Mbit/s

95th percentile per-packet one-way delay: 62.583 ms

Loss rate: 1.14%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 08:28:37 +0000

End at: Sat, 29 Jul 2017 08:29:07 +0000

Local clock offset: 0.522 ms

Remote clock offset: -2.771 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:58:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 86.069 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 62.69 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 86.349 ms

Loss rate: 0.45%

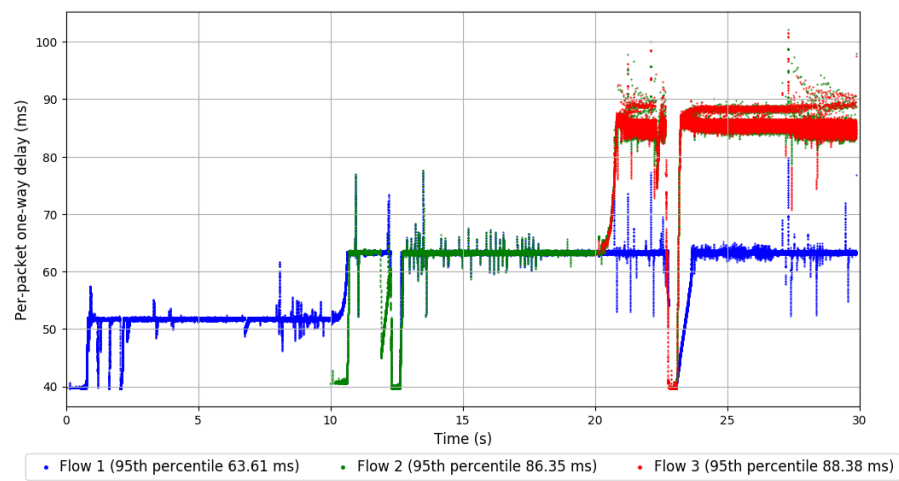
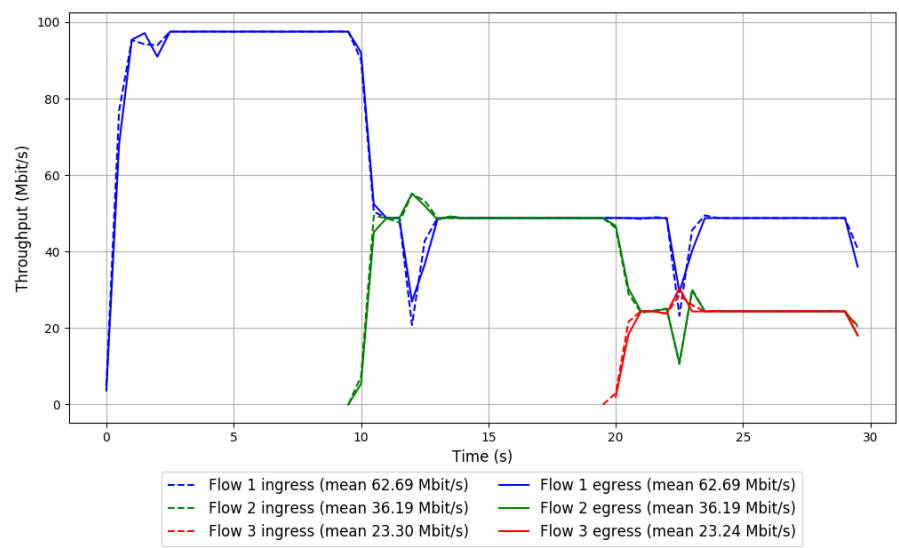
-- Flow 3:

Average throughput: 23.24 Mbit/s

95th percentile per-packet one-way delay: 88.384 ms

Loss rate: 1.38%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 08:49:35 +0000

End at: Sat, 29 Jul 2017 08:50:05 +0000

Local clock offset: 0.504 ms

Remote clock offset: -2.637 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 74.704 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 57.57 Mbit/s

95th percentile per-packet one-way delay: 74.109 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 74.167 ms

Loss rate: 0.50%

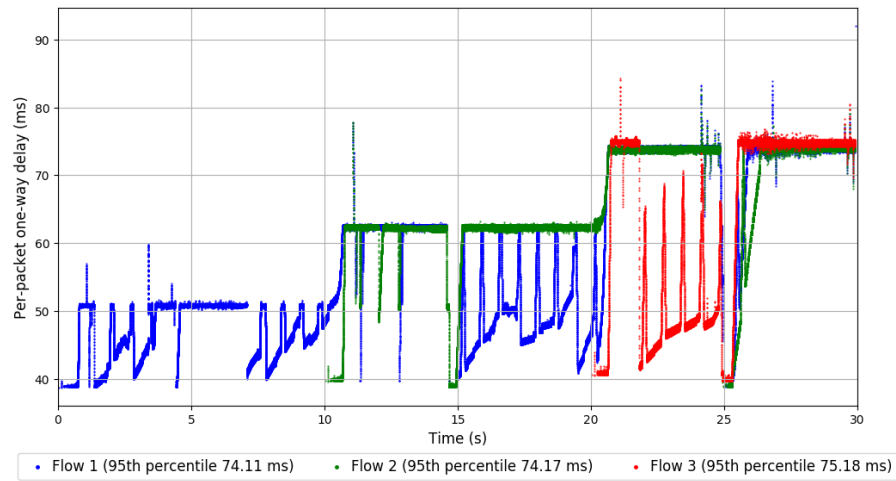
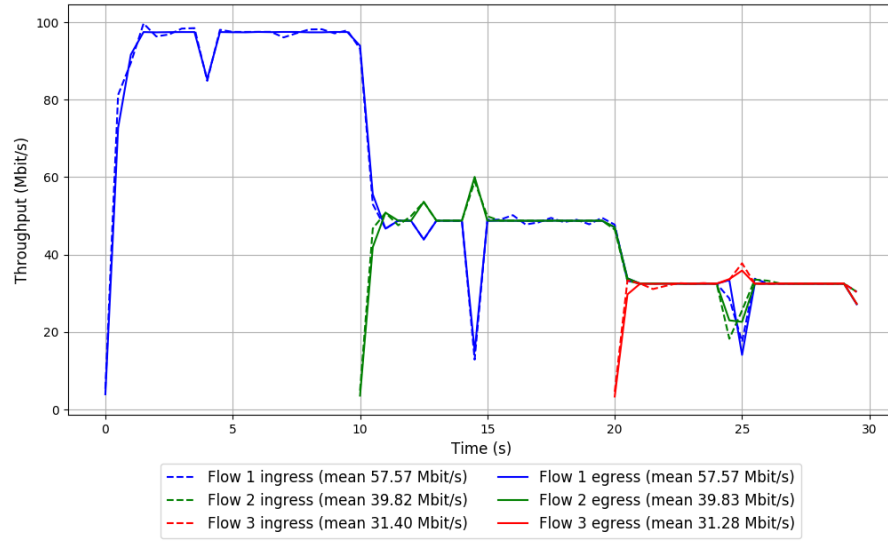
-- Flow 3:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 75.182 ms

Loss rate: 1.27%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 09:10:35 +0000

End at: Sat, 29 Jul 2017 09:11:05 +0000

Local clock offset: 0.536 ms

Remote clock offset: 0.206 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.86 Mbit/s

95th percentile per-packet one-way delay: 82.611 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 82.193 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 83.740 ms

Loss rate: 0.50%

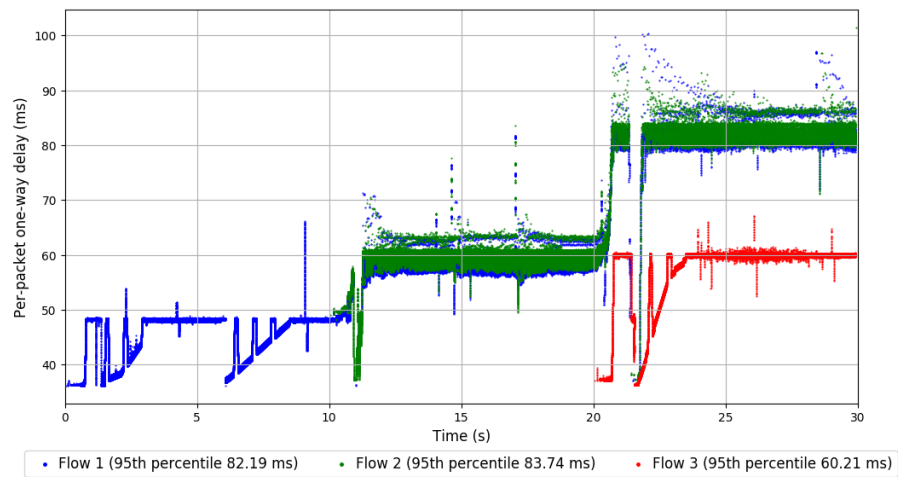
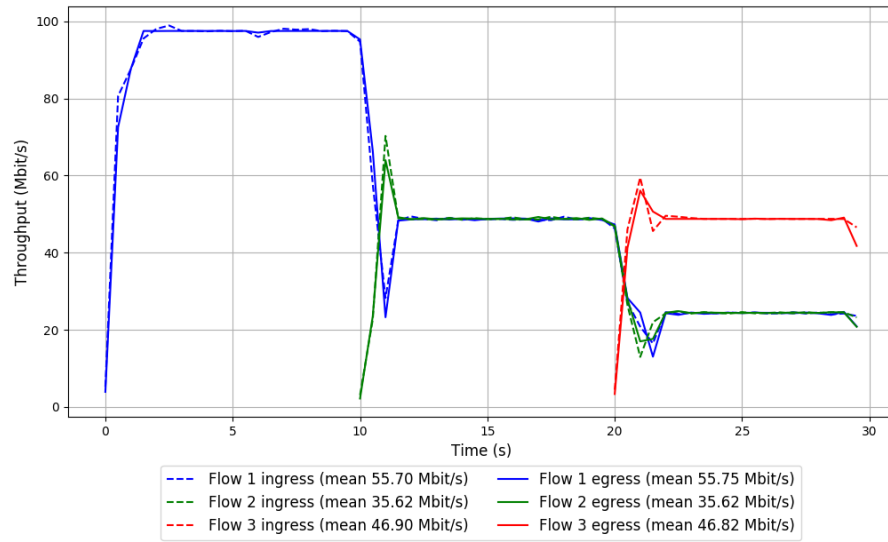
-- Flow 3:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 60.212 ms

Loss rate: 1.14%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 09:31:35 +0000

End at: Sat, 29 Jul 2017 09:32:05 +0000

Local clock offset: 0.484 ms

Remote clock offset: -2.214 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 85.217 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 55.55 Mbit/s

95th percentile per-packet one-way delay: 84.890 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 47.30 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.59%

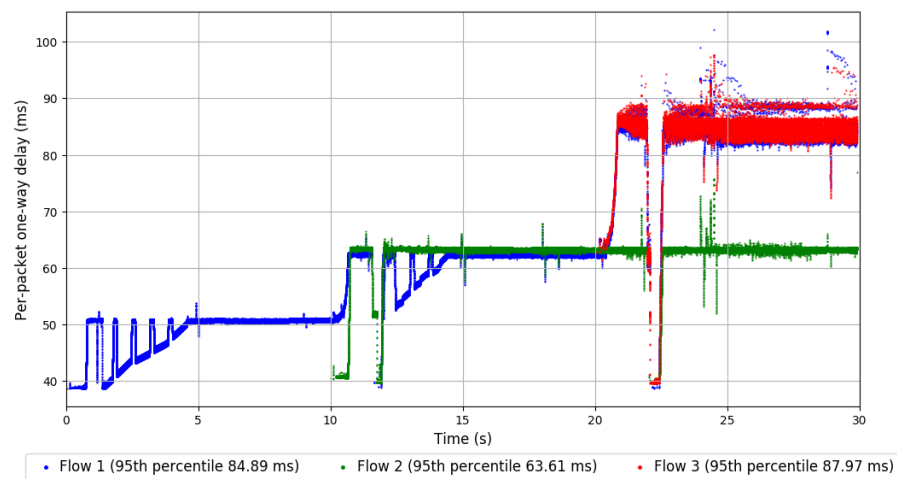
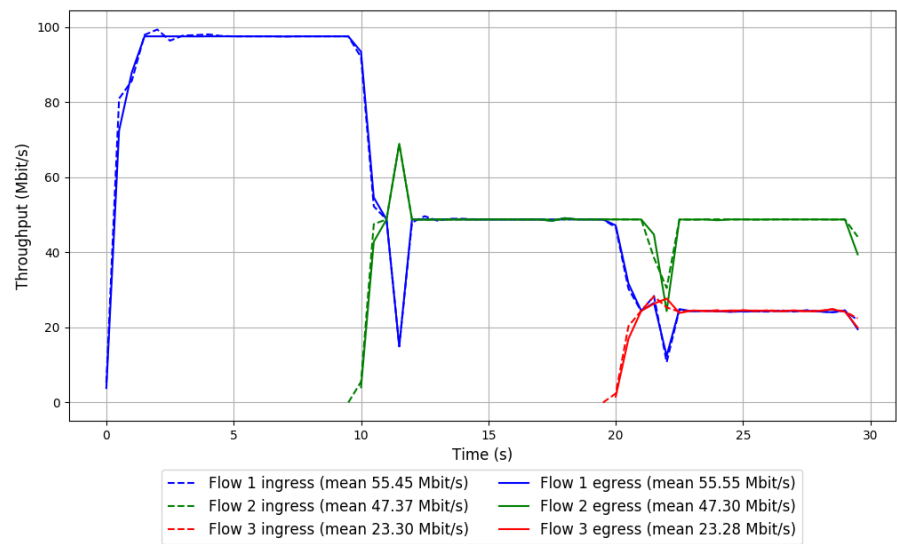
-- Flow 3:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 87.972 ms

Loss rate: 1.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 09:52:38 +0000

End at: Sat, 29 Jul 2017 09:53:08 +0000

Local clock offset: 0.478 ms

Remote clock offset: -0.187 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 83.391 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 55.65 Mbit/s

95th percentile per-packet one-way delay: 83.600 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 46.72 Mbit/s

95th percentile per-packet one-way delay: 61.645 ms

Loss rate: 0.57%

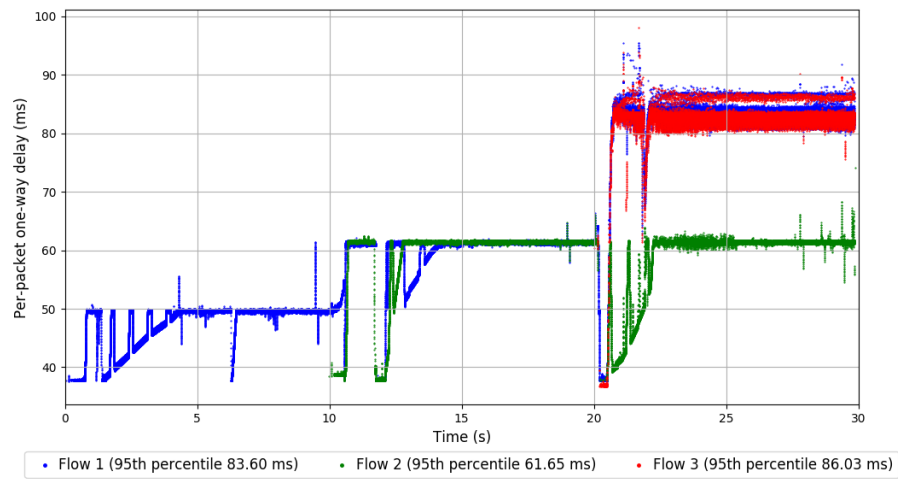
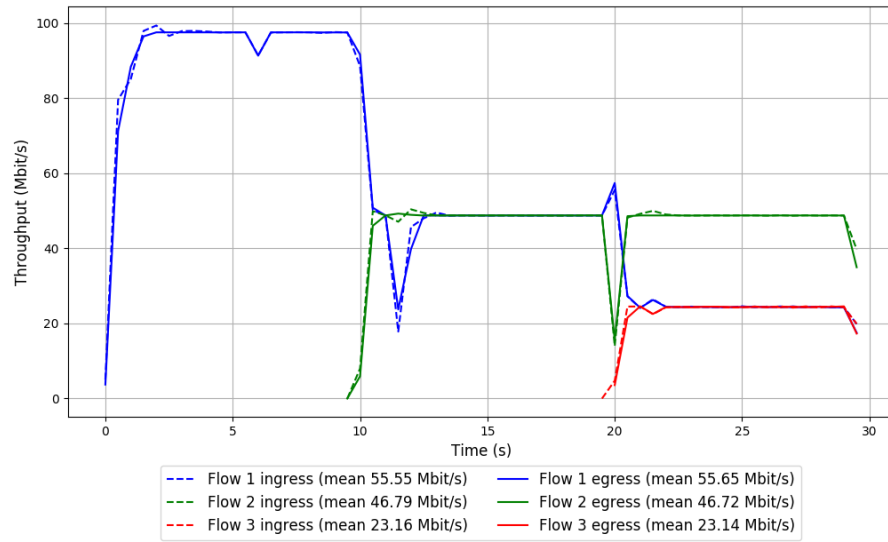
-- Flow 3:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 86.032 ms

Loss rate: 1.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 10:13:41 +0000

End at: Sat, 29 Jul 2017 10:14:11 +0000

Local clock offset: 0.513 ms

Remote clock offset: -2.35 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.48 Mbit/s

95th percentile per-packet one-way delay: 74.610 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 57.74 Mbit/s

95th percentile per-packet one-way delay: 73.992 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 75.193 ms

Loss rate: 0.50%

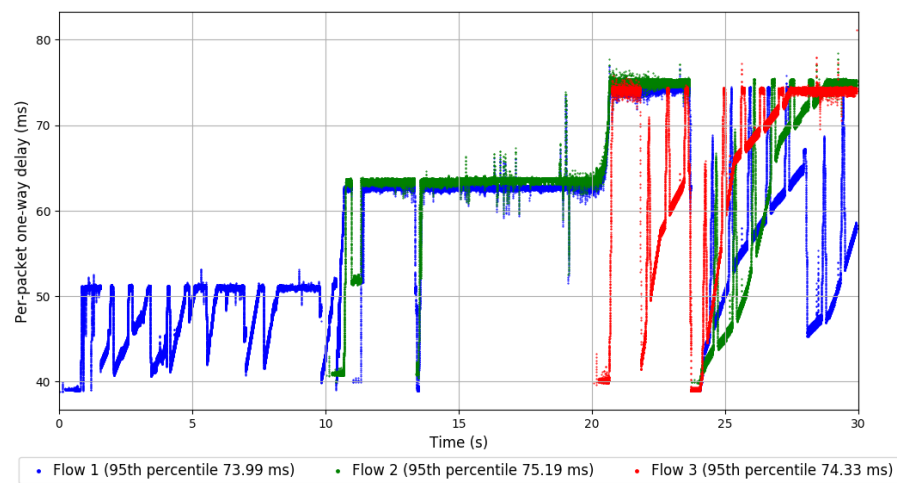
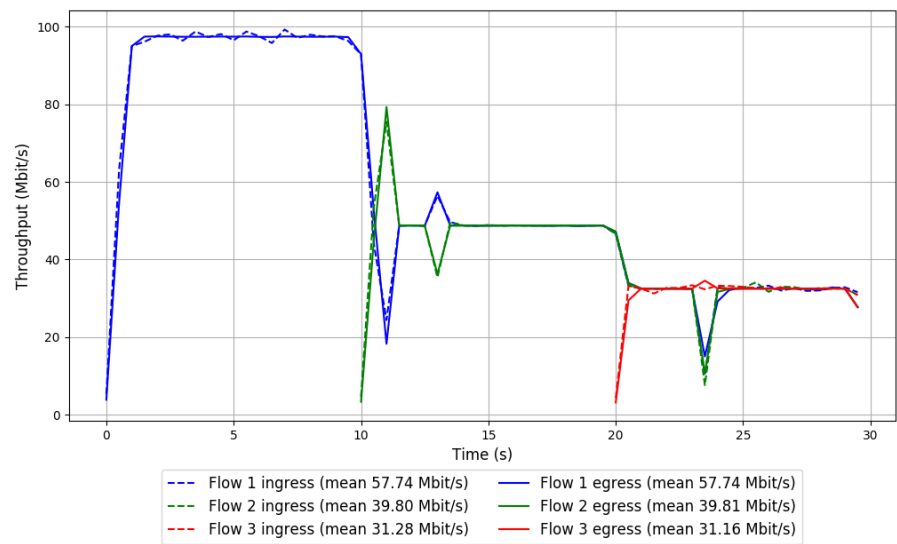
-- Flow 3:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 74.330 ms

Loss rate: 1.27%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 10:34:54 +0000

End at: Sat, 29 Jul 2017 10:35:24 +0000

Local clock offset: 0.375 ms

Remote clock offset: -2.415 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 75.129 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 75.154 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 75.138 ms

Loss rate: 0.61%

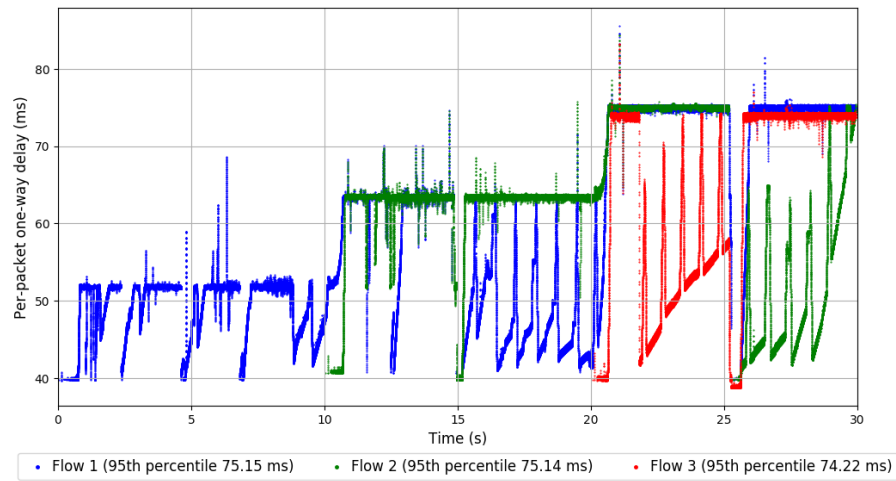
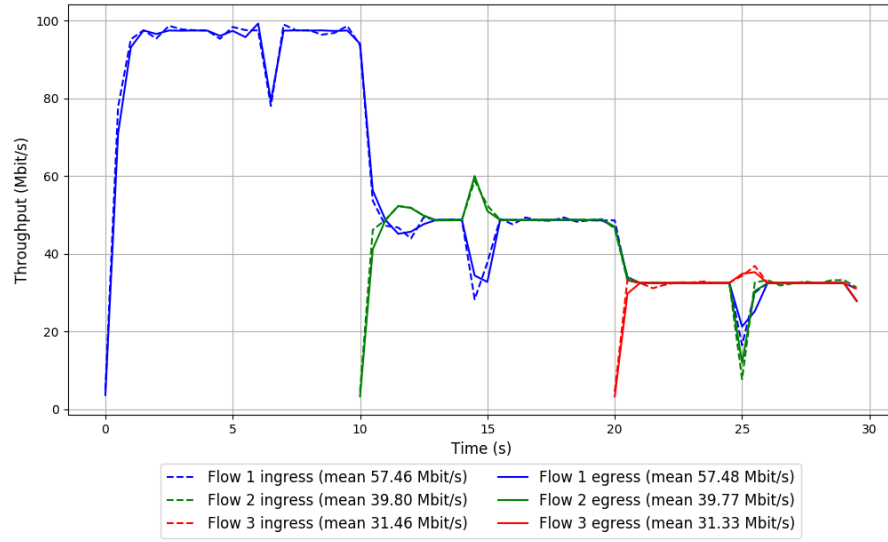
-- Flow 3:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 74.225 ms

Loss rate: 1.26%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 10:56:03 +0000

End at: Sat, 29 Jul 2017 10:56:33 +0000

Local clock offset: 0.445 ms

Remote clock offset: -0.205 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 83.132 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 55.24 Mbit/s

95th percentile per-packet one-way delay: 82.686 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 84.233 ms

Loss rate: 0.46%

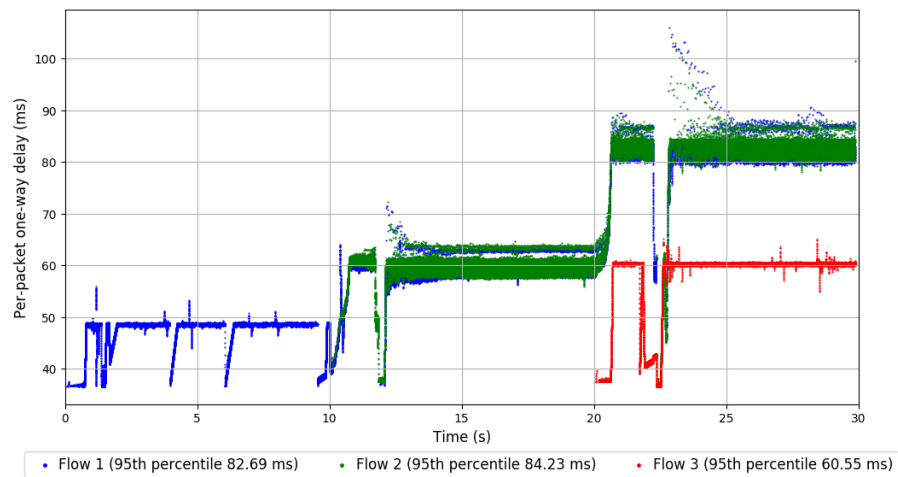
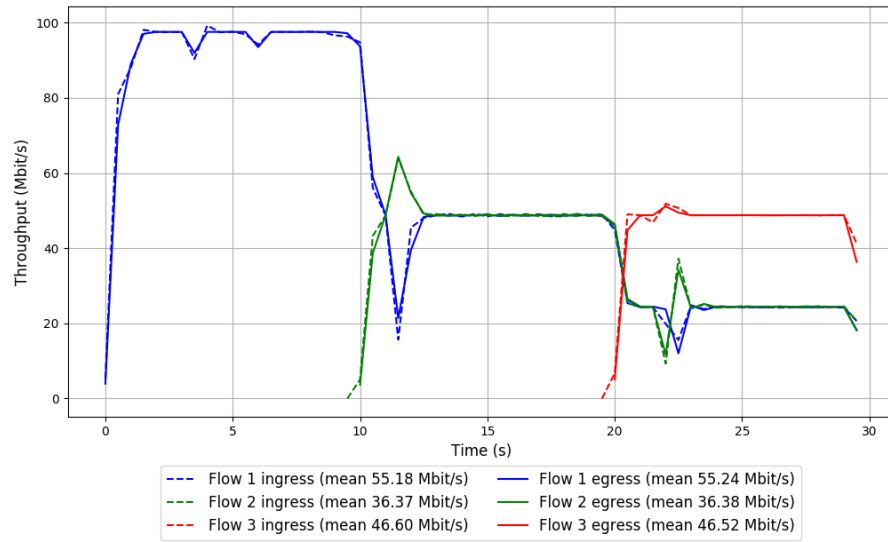
-- Flow 3:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 60.545 ms

Loss rate: 1.16%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: Sat, 29 Jul 2017 11:17:12 +0000

End at: Sat, 29 Jul 2017 11:17:42 +0000

Local clock offset: 0.57 ms

Remote clock offset: -0.221 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 72.644 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 72.145 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 73.053 ms

Loss rate: 0.50%

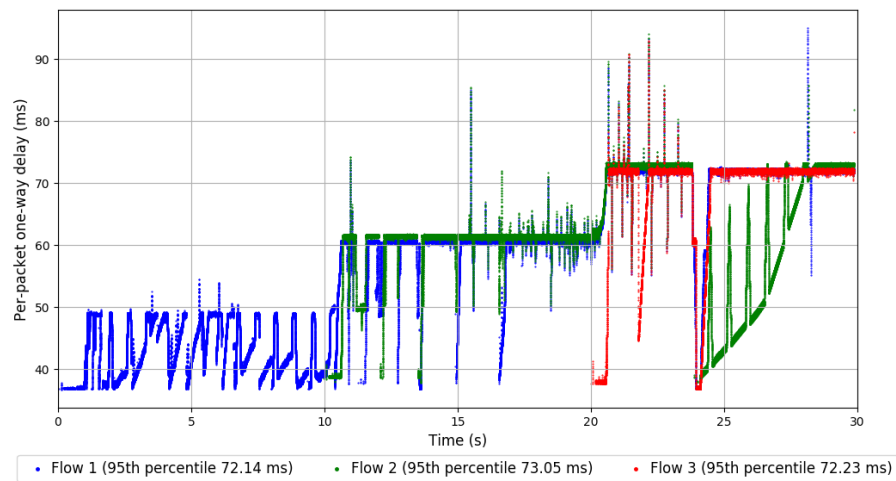
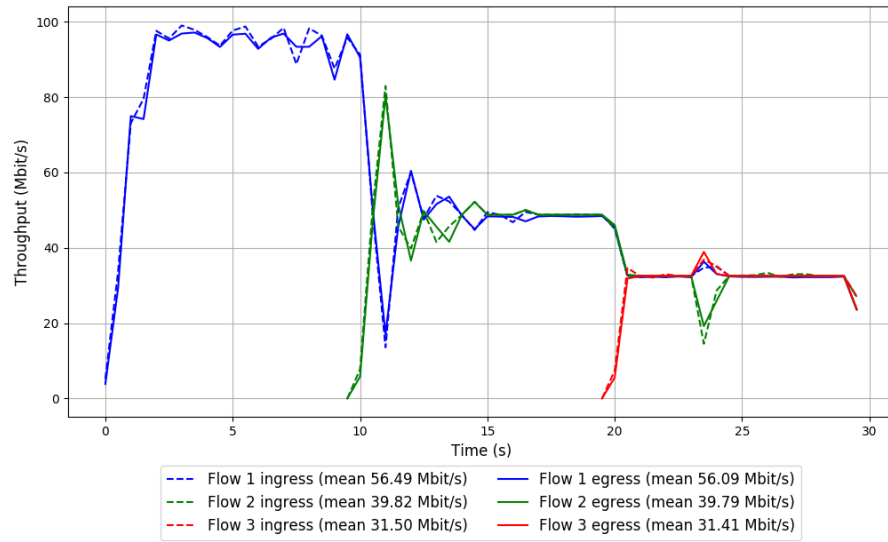
-- Flow 3:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 72.231 ms

Loss rate: 1.26%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Sat, 29 Jul 2017 07:57:49 +0000

End at: Sat, 29 Jul 2017 07:58:19 +0000

Local clock offset: 0.713 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 51.563 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 51.158 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 42.07 Mbit/s

95th percentile per-packet one-way delay: 51.993 ms

Loss rate: 0.73%

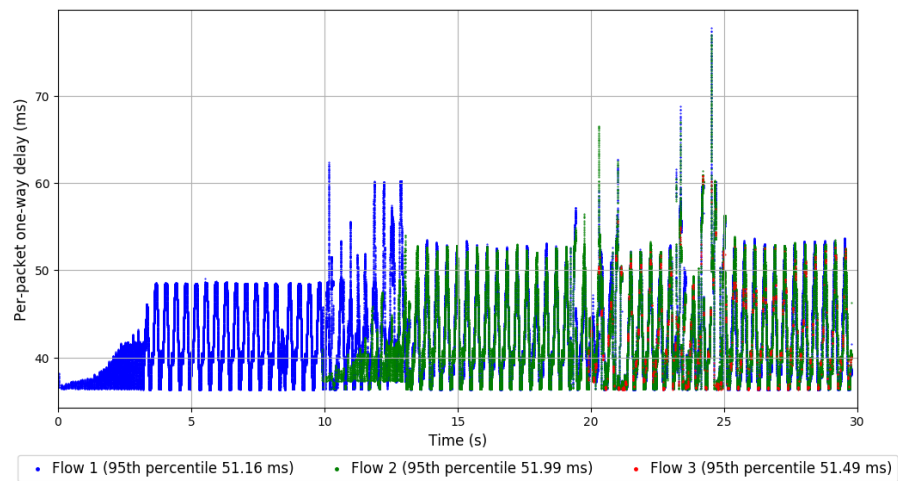
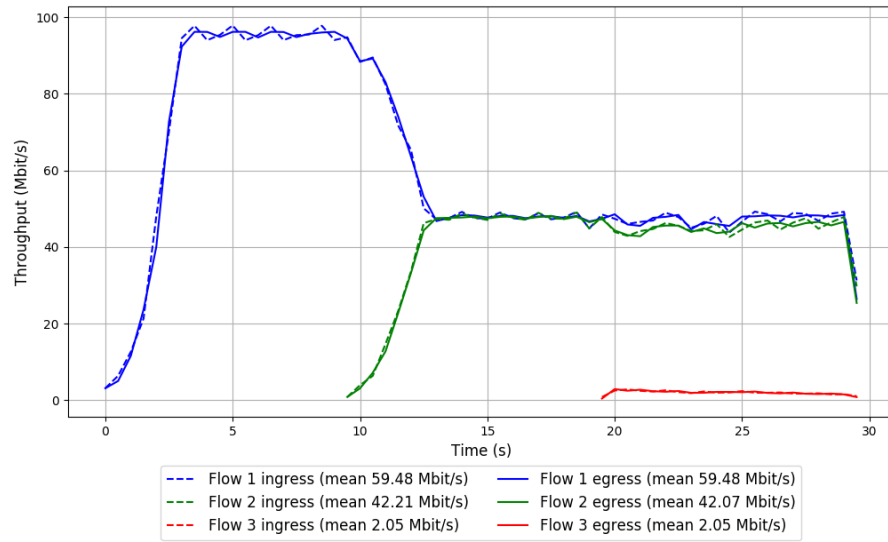
-- Flow 3:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 51.492 ms

Loss rate: 0.76%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Sat, 29 Jul 2017 08:18:50 +0000

End at: Sat, 29 Jul 2017 08:19:20 +0000

Local clock offset: 0.571 ms

Remote clock offset: -2.587 ms

Below is generated by plot.py at Sat, 29 Jul 2017 11:59:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.96 Mbit/s

95th percentile per-packet one-way delay: 54.466 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 54.624 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 36.88 Mbit/s

95th percentile per-packet one-way delay: 54.452 ms

Loss rate: 0.40%

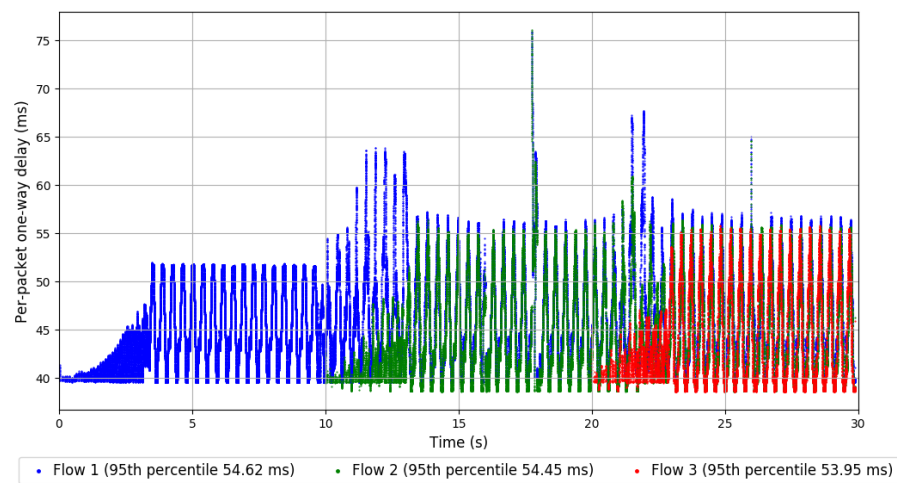
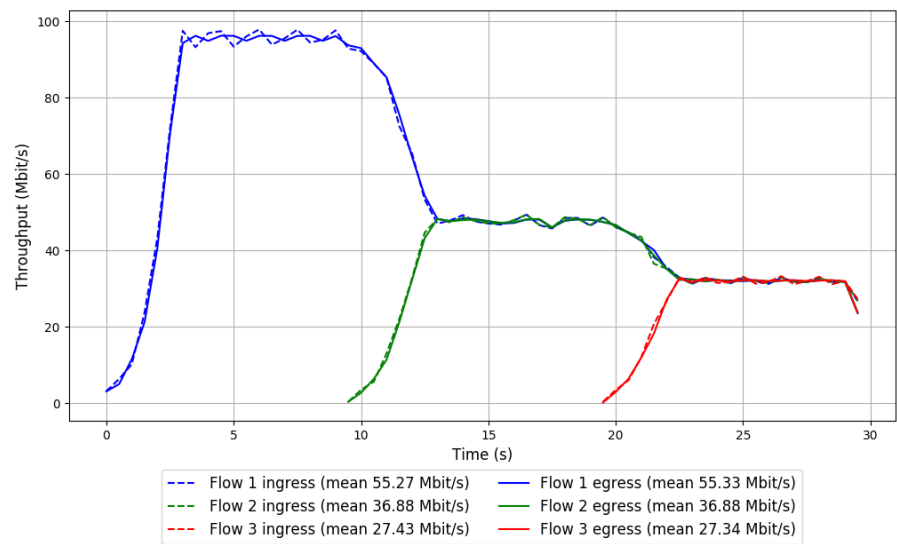
-- Flow 3:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 53.955 ms

Loss rate: 1.12%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Sat, 29 Jul 2017 08:39:50 +0000

End at: Sat, 29 Jul 2017 08:40:20 +0000

Local clock offset: 0.521 ms

Remote clock offset: -0.112 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:00:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.99 Mbit/s

95th percentile per-packet one-way delay: 52.471 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 55.30 Mbit/s

95th percentile per-packet one-way delay: 52.045 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 37.04 Mbit/s

95th percentile per-packet one-way delay: 53.229 ms

Loss rate: 0.42%

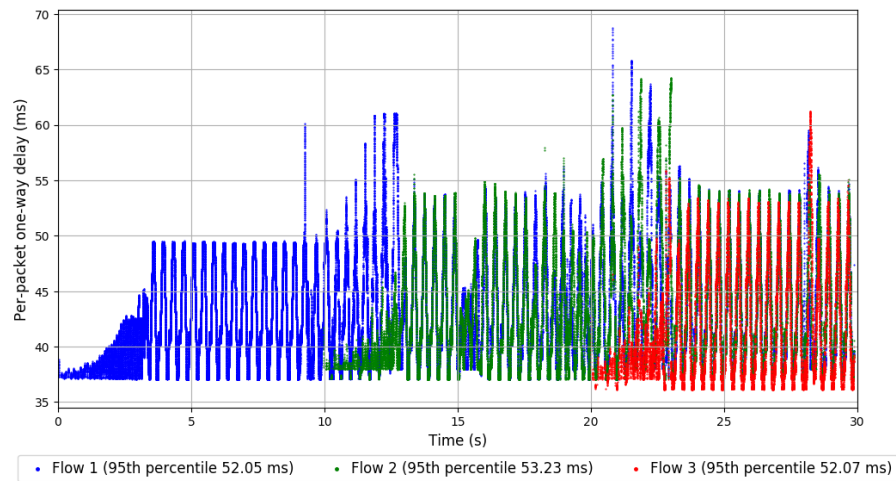
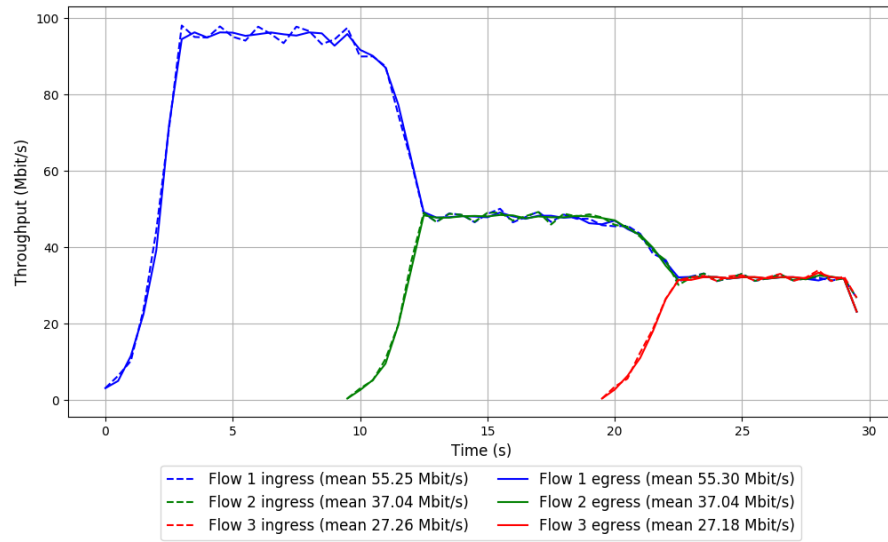
-- Flow 3:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 52.066 ms

Loss rate: 1.15%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Sat, 29 Jul 2017 09:00:53 +0000

End at: Sat, 29 Jul 2017 09:01:23 +0000

Local clock offset: 0.493 ms

Remote clock offset: -0.434 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:00:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.48 Mbit/s

95th percentile per-packet one-way delay: 50.139 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 49.528 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 51.146 ms

Loss rate: 0.27%

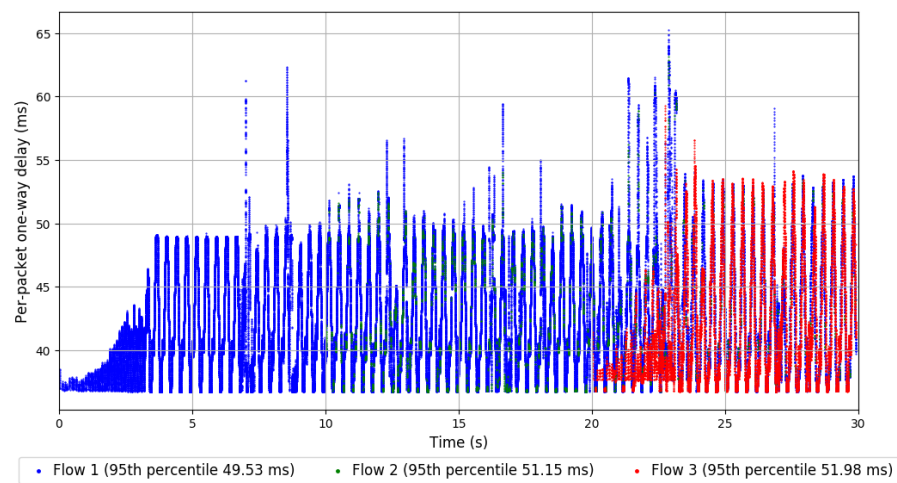
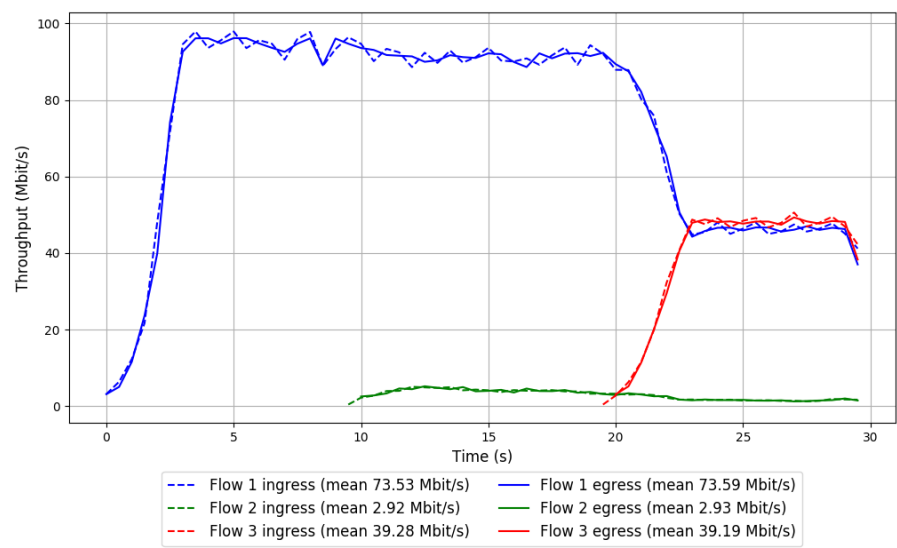
-- Flow 3:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 51.980 ms

Loss rate: 1.03%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

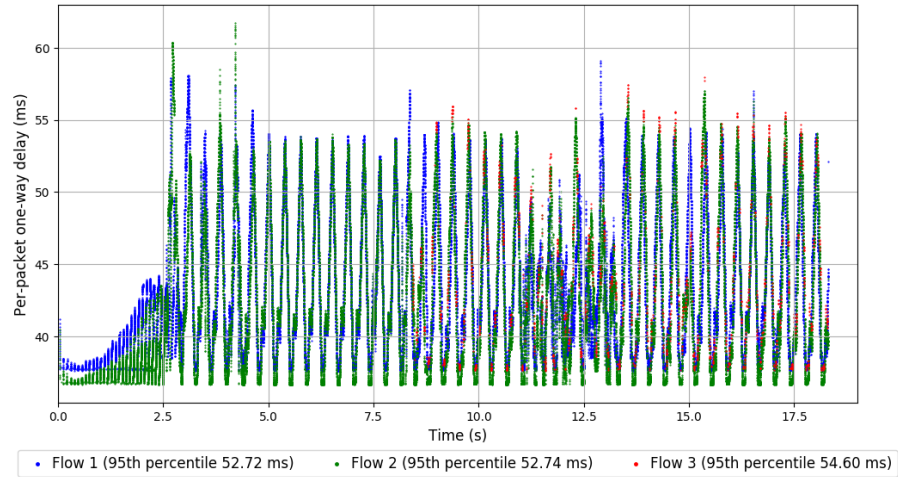
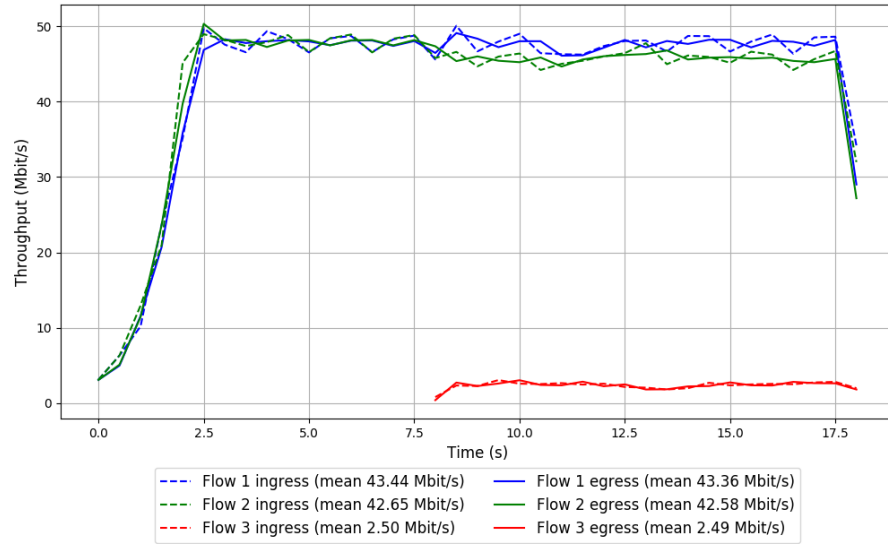
Start at: Sat, 29 Jul 2017 09:21:51 +0000

End at: Sat, 29 Jul 2017 09:22:21 +0000

Local clock offset: 0.515 ms

Remote clock offset: -0.164 ms

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Sat, 29 Jul 2017 09:42:52 +0000

End at: Sat, 29 Jul 2017 09:43:22 +0000

Local clock offset: 0.466 ms

Remote clock offset: -2.13 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:00:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.90 Mbit/s

95th percentile per-packet one-way delay: 55.047 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 55.24 Mbit/s

95th percentile per-packet one-way delay: 54.615 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 36.88 Mbit/s

95th percentile per-packet one-way delay: 55.754 ms

Loss rate: 0.37%

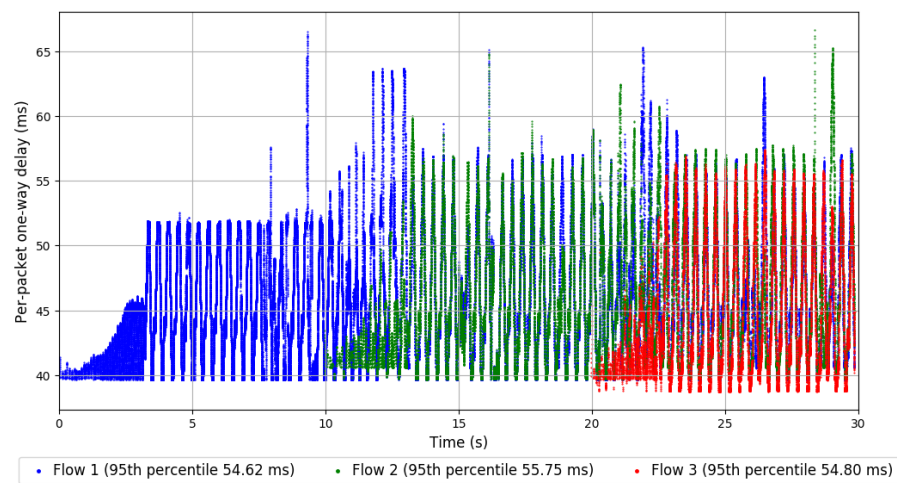
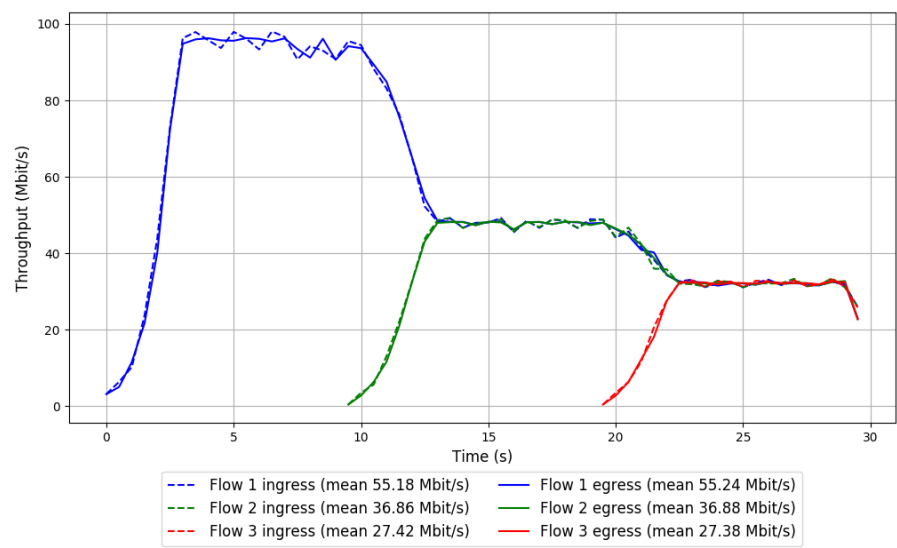
-- Flow 3:

Average throughput: 27.38 Mbit/s

95th percentile per-packet one-way delay: 54.804 ms

Loss rate: 0.97%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

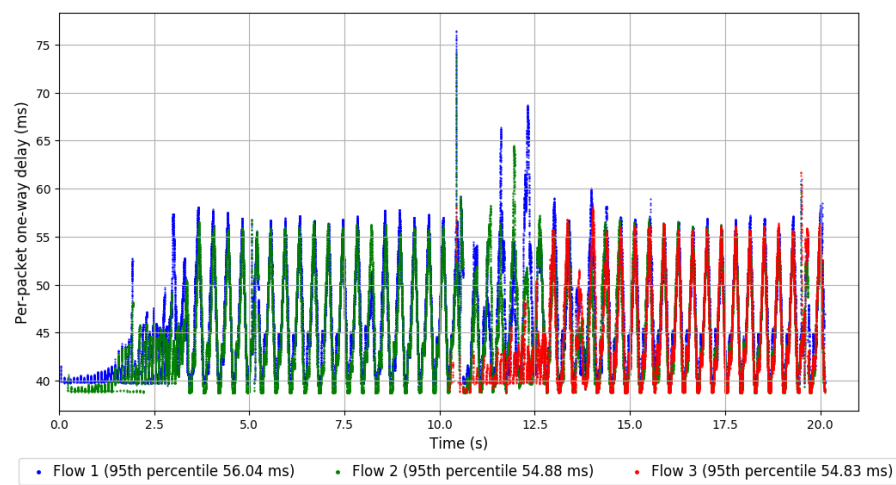
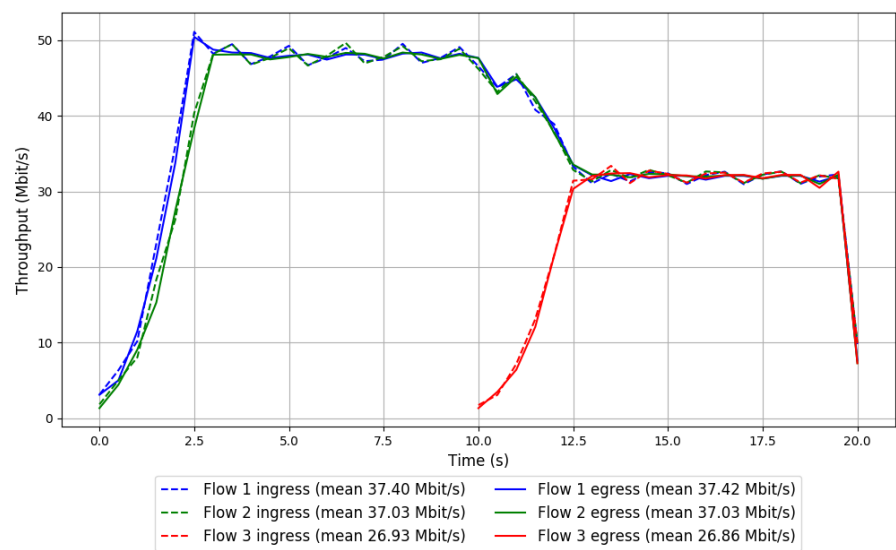
Start at: Sat, 29 Jul 2017 10:03:54 +0000

End at: Sat, 29 Jul 2017 10:04:24 +0000

Local clock offset: 0.485 ms

Remote clock offset: -2.268 ms

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: Sat, 29 Jul 2017 10:25:07 +0000

End at: Sat, 29 Jul 2017 10:25:37 +0000

Local clock offset: 0.37 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:00:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 51.425 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 20.70 Mbit/s

95th percentile per-packet one-way delay: 52.201 ms

Loss rate: 0.57%

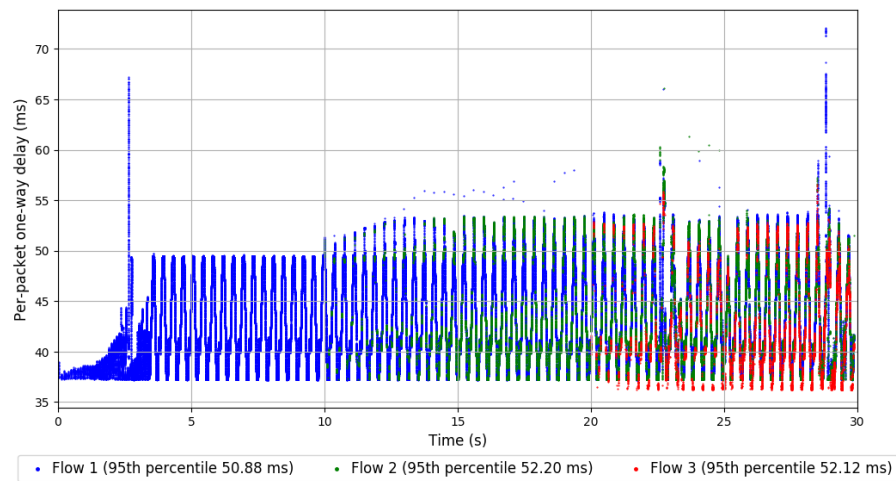
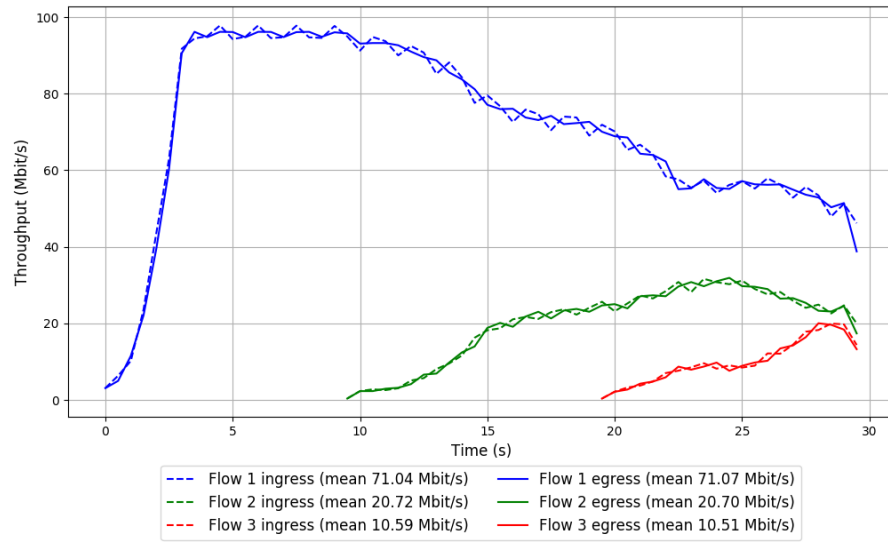
-- Flow 3:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 52.125 ms

Loss rate: 1.62%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Sat, 29 Jul 2017 10:46:10 +0000

End at: Sat, 29 Jul 2017 10:46:40 +0000

Local clock offset: 0.503 ms

Remote clock offset: -0.266 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:00:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.92 Mbit/s

95th percentile per-packet one-way delay: 51.497 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 50.700 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 52.457 ms

Loss rate: 0.48%

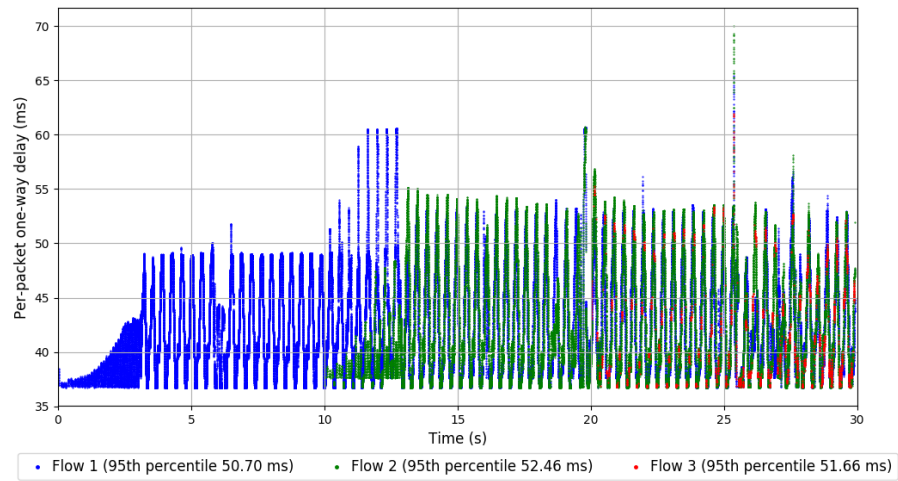
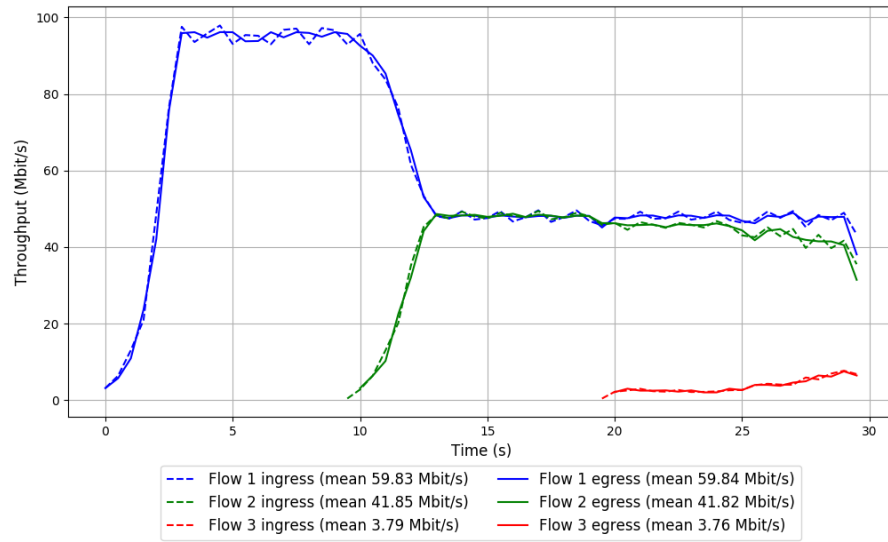
-- Flow 3:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 51.659 ms

Loss rate: 1.78%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: Sat, 29 Jul 2017 11:07:24 +0000

End at: Sat, 29 Jul 2017 11:07:54 +0000

Local clock offset: 0.563 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:00:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.89 Mbit/s

95th percentile per-packet one-way delay: 51.922 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 58.83 Mbit/s

95th percentile per-packet one-way delay: 51.258 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 43.80 Mbit/s

95th percentile per-packet one-way delay: 52.564 ms

Loss rate: 0.53%

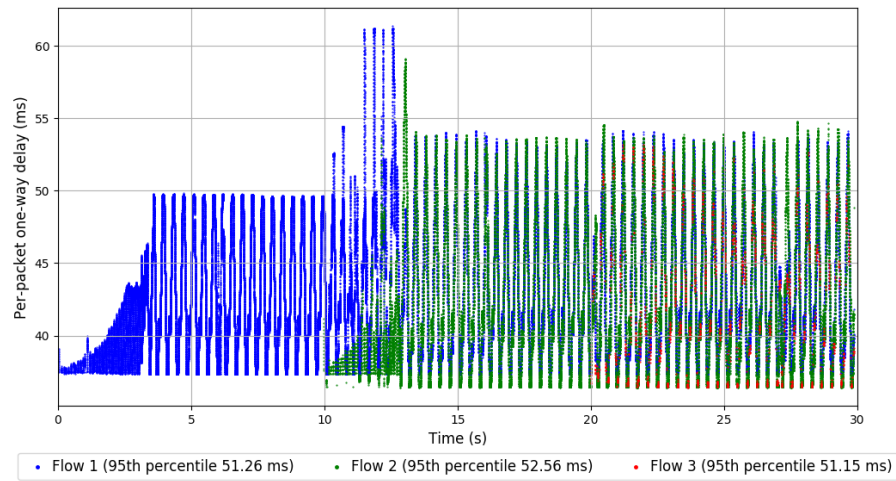
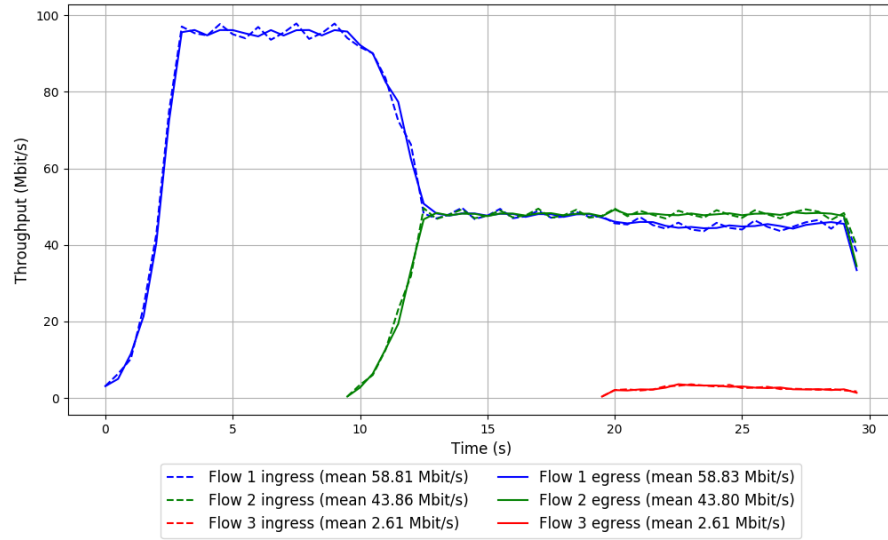
-- Flow 3:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 51.150 ms

Loss rate: 0.74%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Sat, 29 Jul 2017 08:04:41 +0000

End at: Sat, 29 Jul 2017 08:05:11 +0000

Local clock offset: 0.578 ms

Remote clock offset: -0.135 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:00:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.12 Mbit/s

95th percentile per-packet one-way delay: 40.054 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 41.635 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 37.221 ms

Loss rate: 0.38%

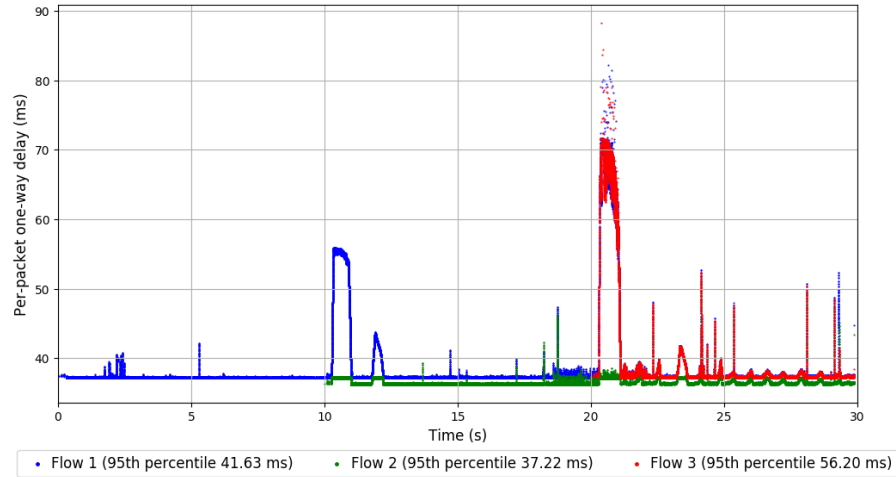
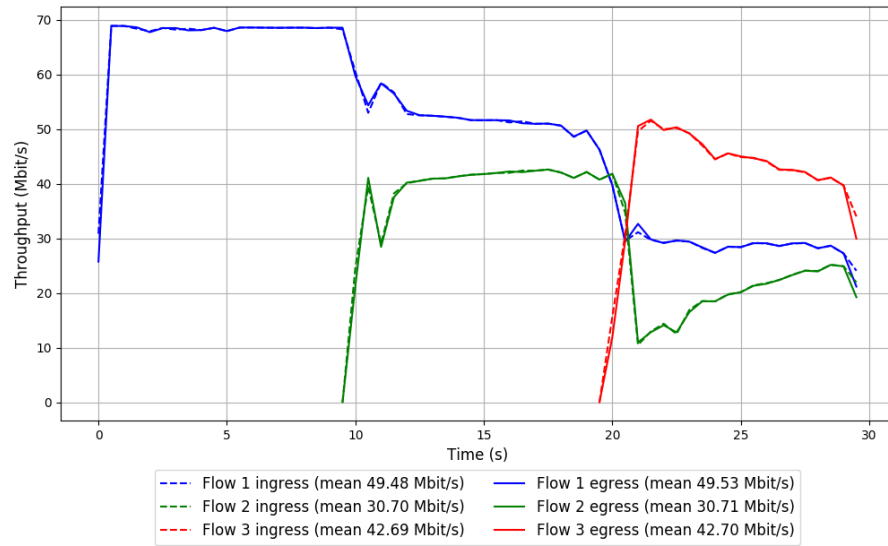
-- Flow 3:

Average throughput: 42.70 Mbit/s

95th percentile per-packet one-way delay: 56.203 ms

Loss rate: 0.84%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Sat, 29 Jul 2017 08:25:47 +0000

End at: Sat, 29 Jul 2017 08:26:17 +0000

Local clock offset: 0.542 ms

Remote clock offset: -0.672 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:01:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 39.281 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 38.110 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 32.51 Mbit/s

95th percentile per-packet one-way delay: 39.905 ms

Loss rate: 0.45%

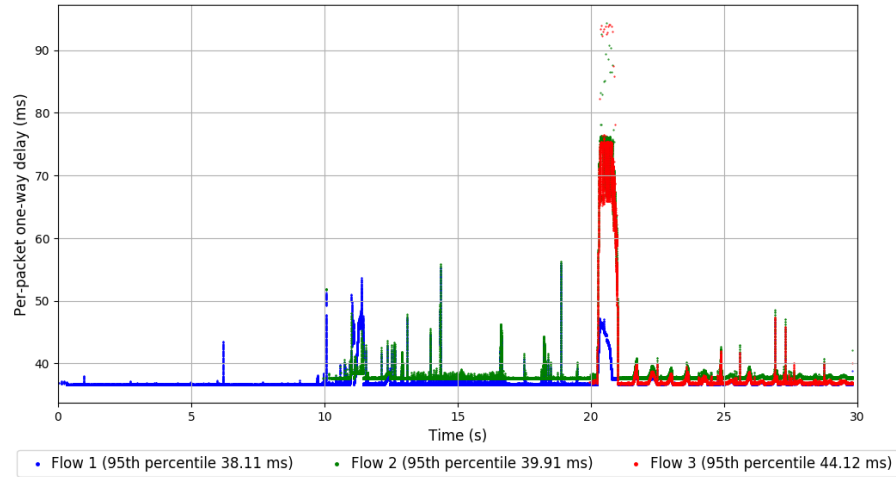
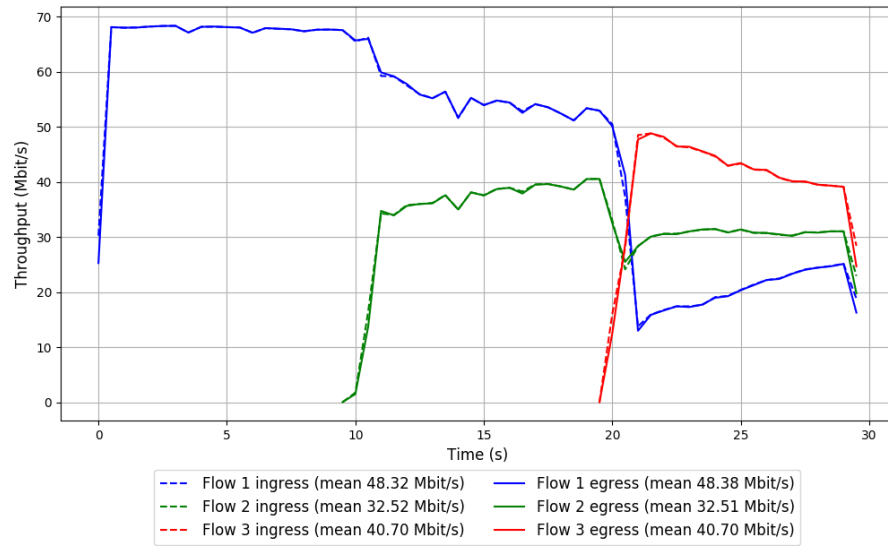
-- Flow 3:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 44.122 ms

Loss rate: 0.82%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Sat, 29 Jul 2017 08:46:45 +0000

End at: Sat, 29 Jul 2017 08:47:15 +0000

Local clock offset: 0.606 ms

Remote clock offset: -2.592 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:01:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 51.881 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 53.68 Mbit/s

95th percentile per-packet one-way delay: 43.211 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 57.904 ms

Loss rate: 0.39%

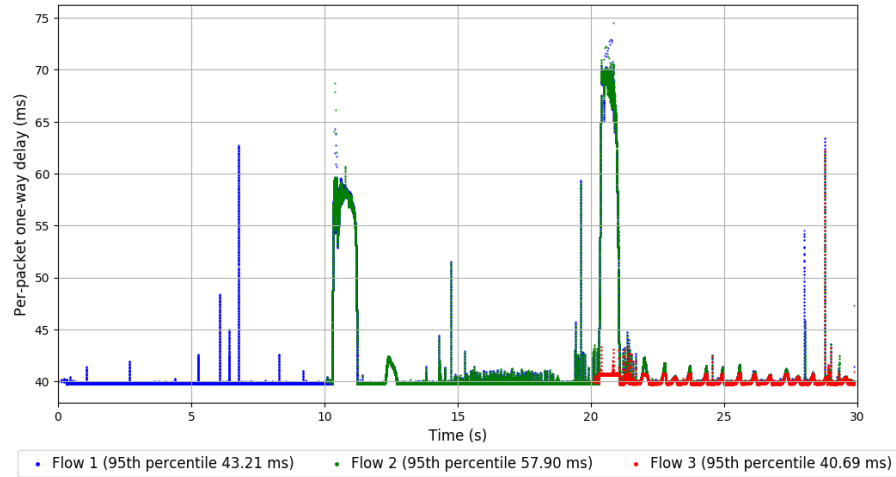
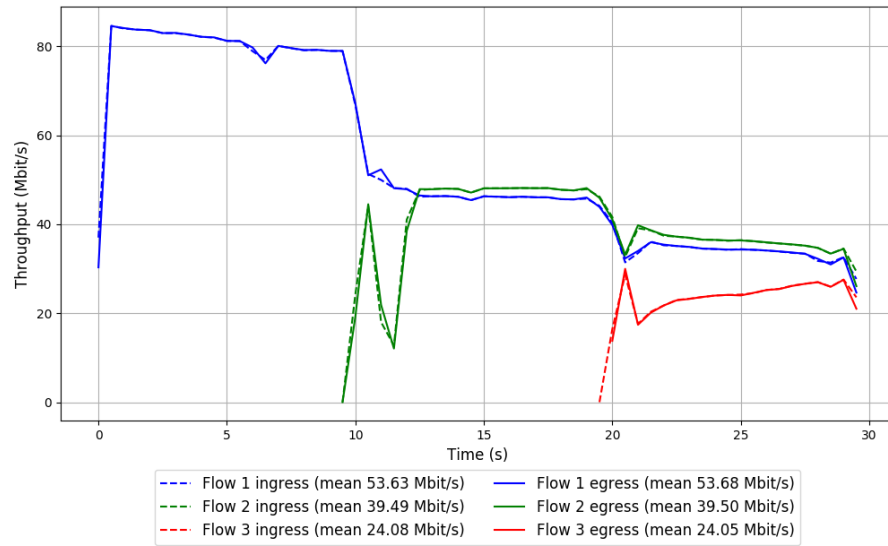
-- Flow 3:

Average throughput: 24.05 Mbit/s

95th percentile per-packet one-way delay: 40.691 ms

Loss rate: 1.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Sat, 29 Jul 2017 09:07:44 +0000

End at: Sat, 29 Jul 2017 09:08:14 +0000

Local clock offset: 0.465 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:01:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.63 Mbit/s

95th percentile per-packet one-way delay: 38.826 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 52.70 Mbit/s

95th percentile per-packet one-way delay: 38.031 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 35.30 Mbit/s

95th percentile per-packet one-way delay: 44.982 ms

Loss rate: 0.42%

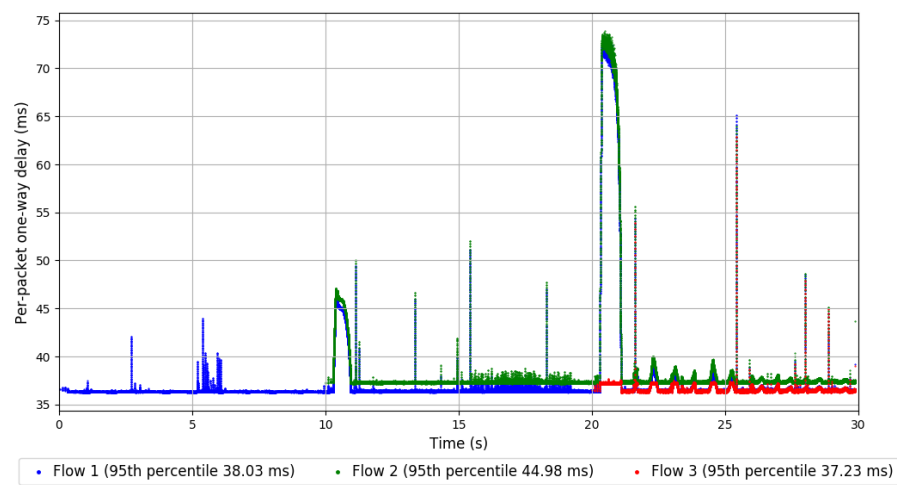
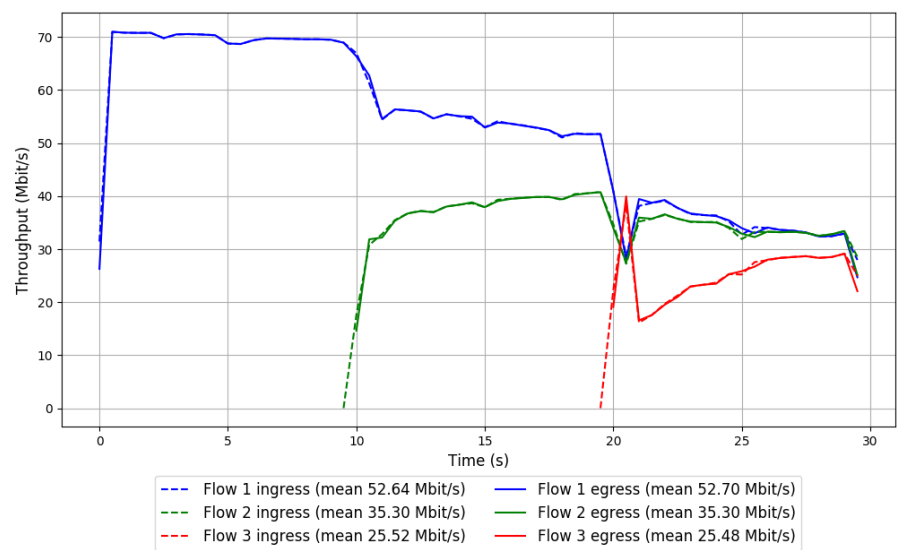
-- Flow 3:

Average throughput: 25.48 Mbit/s

95th percentile per-packet one-way delay: 37.234 ms

Loss rate: 1.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Sat, 29 Jul 2017 09:28:44 +0000

End at: Sat, 29 Jul 2017 09:29:14 +0000

Local clock offset: 0.505 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:01:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 51.052 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 57.31 Mbit/s

95th percentile per-packet one-way delay: 40.274 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 53.328 ms

Loss rate: 0.46%

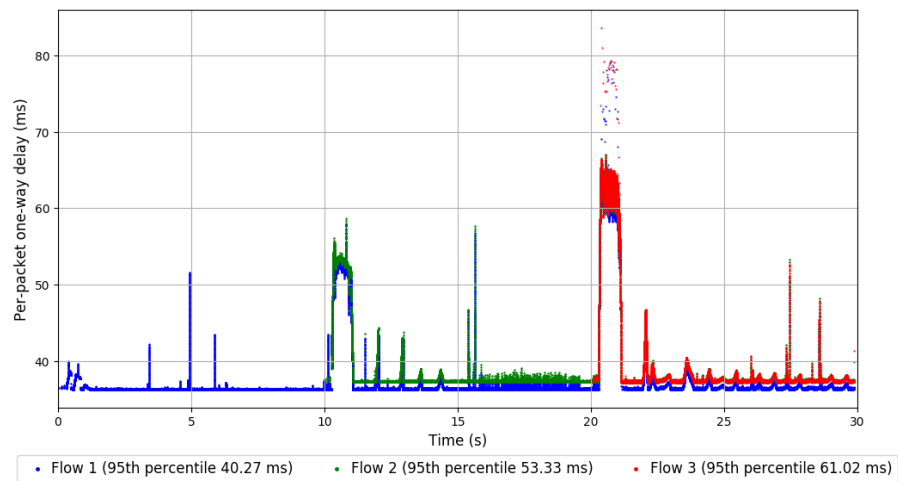
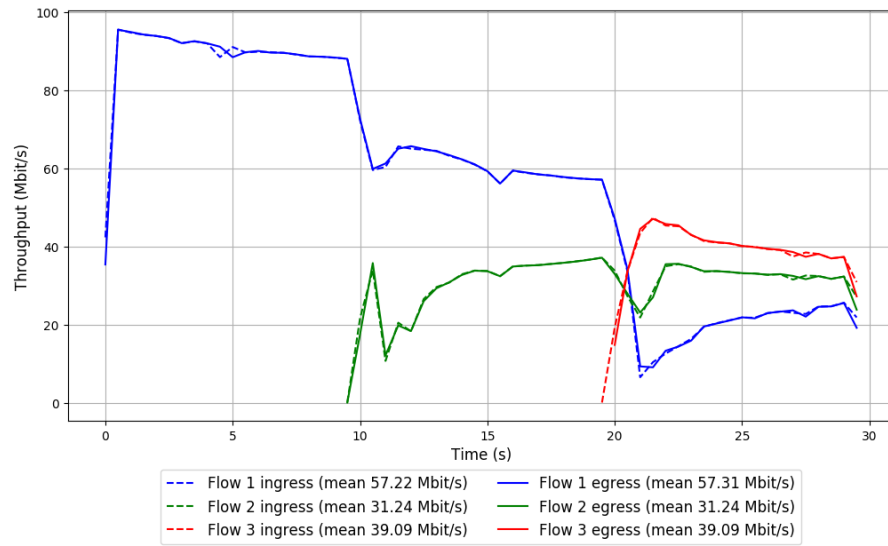
-- Flow 3:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 61.018 ms

Loss rate: 0.83%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: Sat, 29 Jul 2017 09:49:47 +0000

End at: Sat, 29 Jul 2017 09:50:17 +0000

Local clock offset: 0.479 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:01:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 43.481 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 55.30 Mbit/s

95th percentile per-packet one-way delay: 40.157 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 54.673 ms

Loss rate: 0.42%

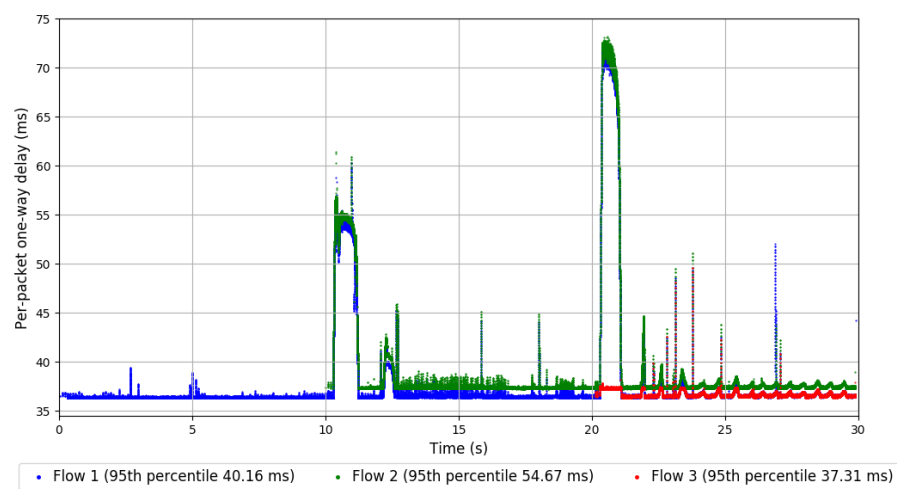
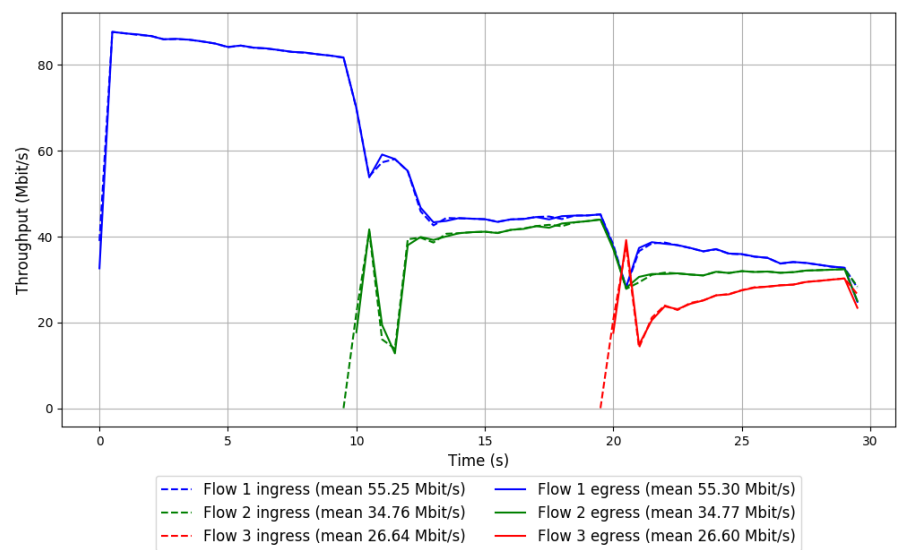
-- Flow 3:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 37.315 ms

Loss rate: 1.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Sat, 29 Jul 2017 10:10:49 +0000

End at: Sat, 29 Jul 2017 10:11:19 +0000

Local clock offset: 0.379 ms

Remote clock offset: -2.251 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:02:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 40.427 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 39.507 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 40.655 ms

Loss rate: 0.43%

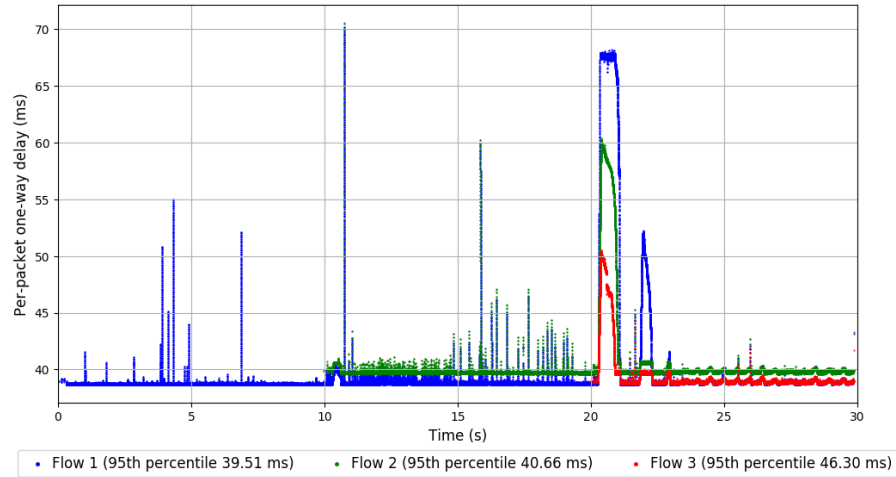
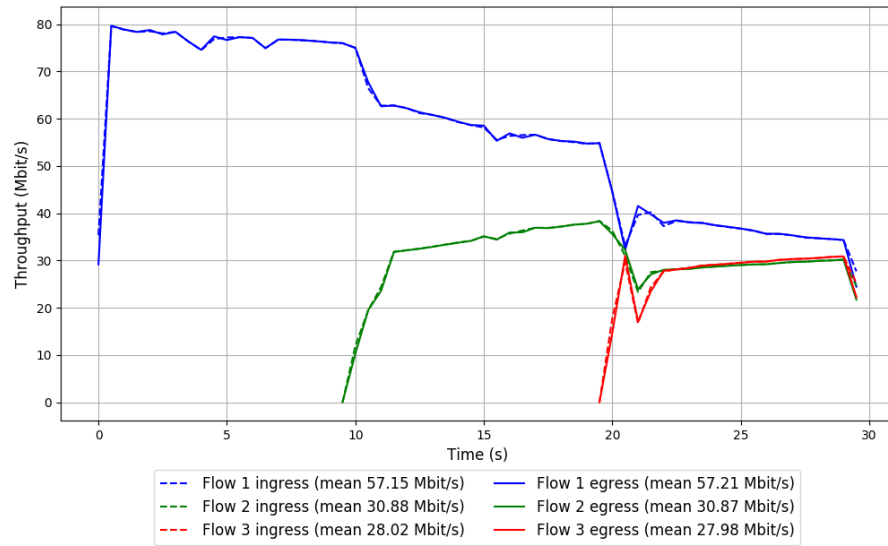
-- Flow 3:

Average throughput: 27.98 Mbit/s

95th percentile per-packet one-way delay: 46.302 ms

Loss rate: 0.96%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: Sat, 29 Jul 2017 10:32:03 +0000

End at: Sat, 29 Jul 2017 10:32:33 +0000

Local clock offset: 0.397 ms

Remote clock offset: -0.349 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:02:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 38.846 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 58.67 Mbit/s

95th percentile per-packet one-way delay: 43.117 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 35.67 Mbit/s

95th percentile per-packet one-way delay: 38.710 ms

Loss rate: 0.39%

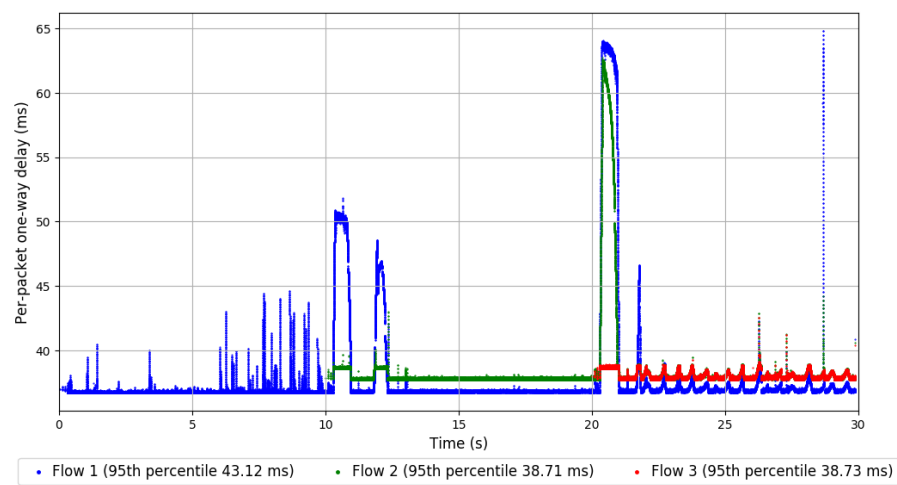
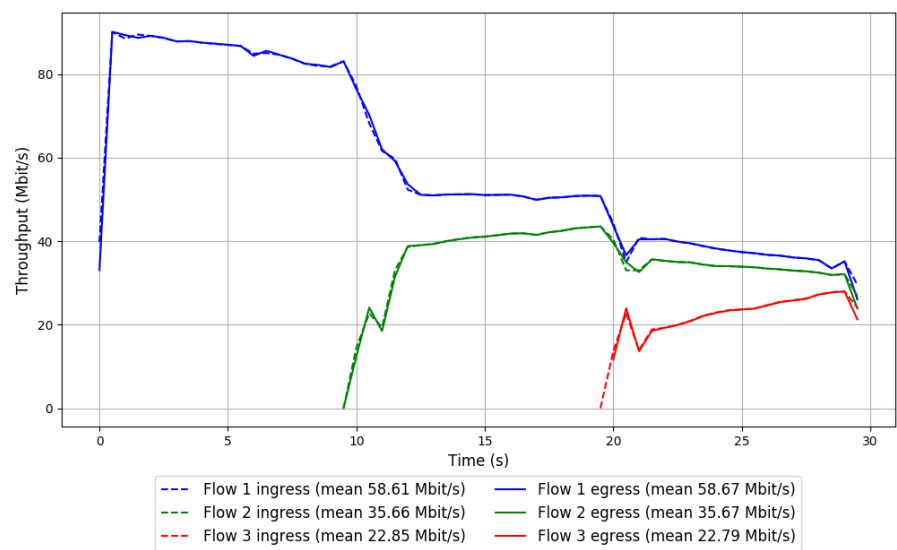
-- Flow 3:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 38.726 ms

Loss rate: 1.09%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Sat, 29 Jul 2017 10:53:05 +0000

End at: Sat, 29 Jul 2017 10:53:35 +0000

Local clock offset: 0.524 ms

Remote clock offset: -2.348 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:02:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.77 Mbit/s

95th percentile per-packet one-way delay: 42.878 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 56.48 Mbit/s

95th percentile per-packet one-way delay: 43.639 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 34.10 Mbit/s

95th percentile per-packet one-way delay: 40.540 ms

Loss rate: 0.42%

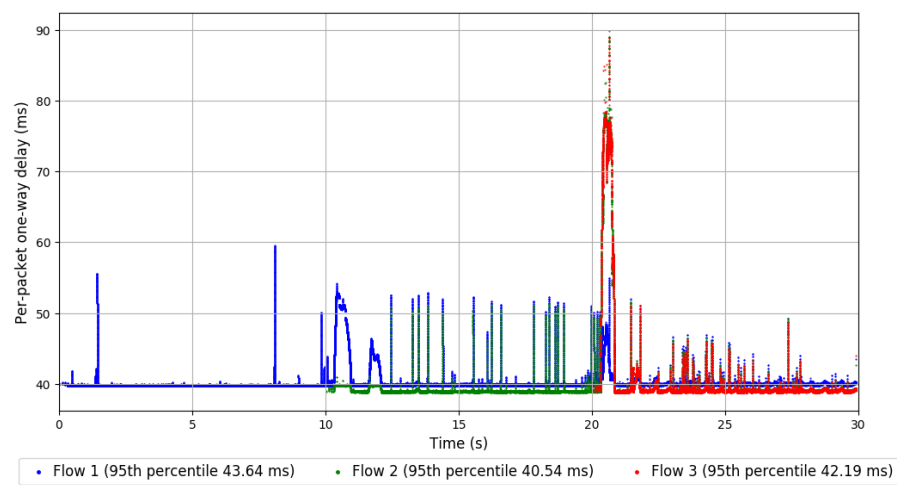
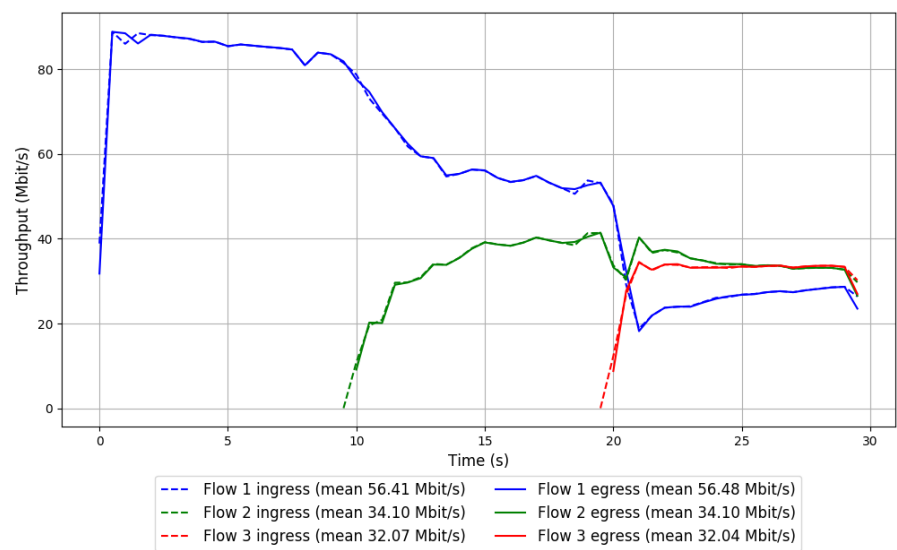
-- Flow 3:

Average throughput: 32.04 Mbit/s

95th percentile per-packet one-way delay: 42.191 ms

Loss rate: 0.91%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Sat, 29 Jul 2017 11:14:22 +0000

End at: Sat, 29 Jul 2017 11:14:52 +0000

Local clock offset: 0.584 ms

Remote clock offset: -0.191 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:02:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 38.875 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 38.197 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 38.572 ms

Loss rate: 1.09%

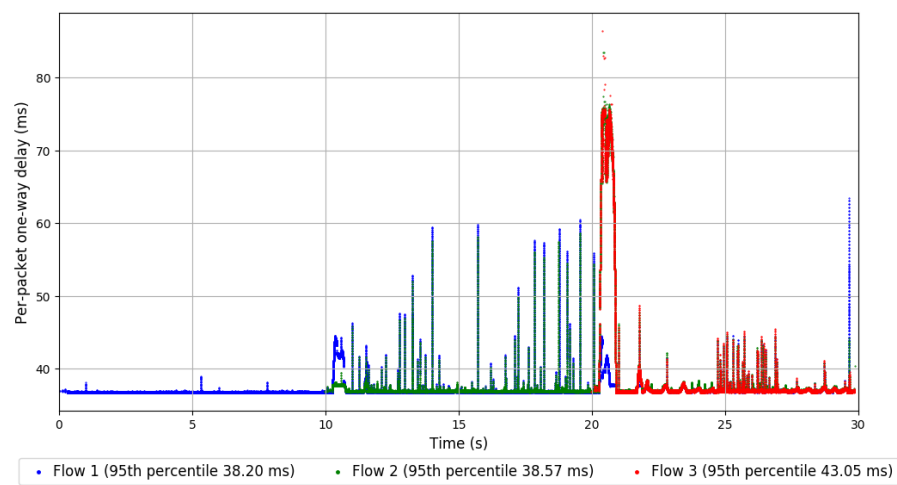
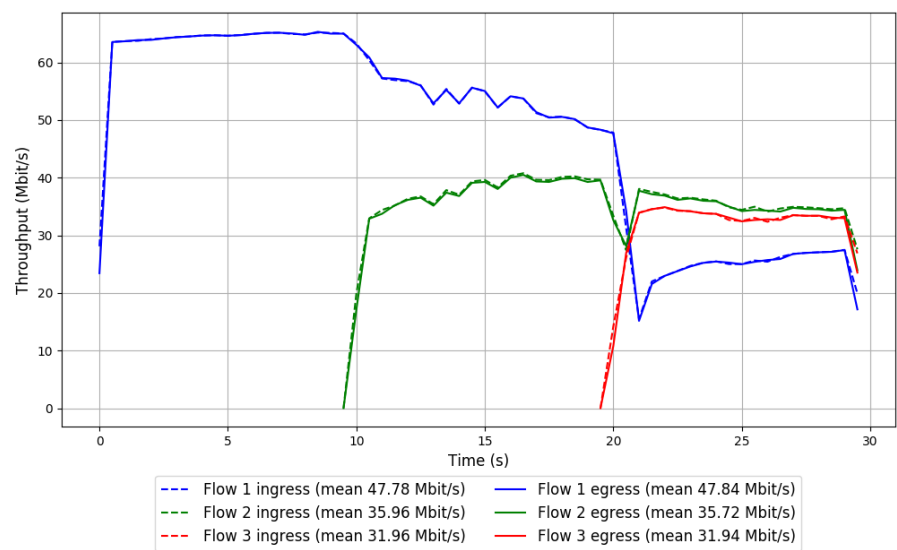
-- Flow 3:

Average throughput: 31.94 Mbit/s

95th percentile per-packet one-way delay: 43.054 ms

Loss rate: 0.91%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 08:03:17 +0000

End at: Sat, 29 Jul 2017 08:03:47 +0000

Local clock offset: 0.71 ms

Remote clock offset: -0.062 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:02:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.30 Mbit/s

95th percentile per-packet one-way delay: 62.069 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 39.316 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 69.88 Mbit/s

95th percentile per-packet one-way delay: 62.228 ms

Loss rate: 0.38%

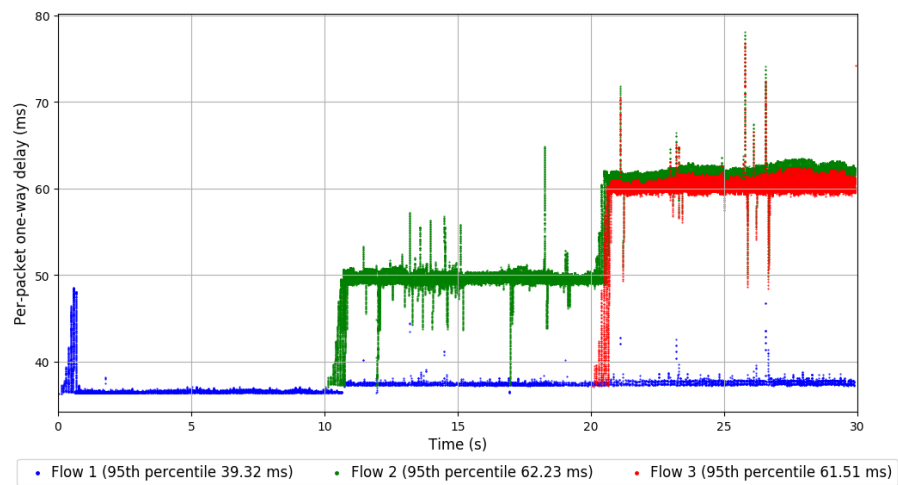
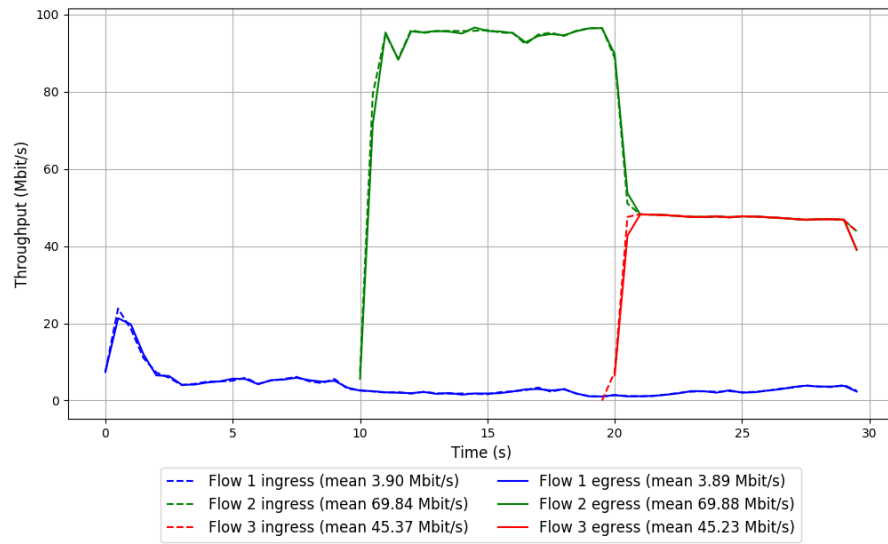
-- Flow 3:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 61.510 ms

Loss rate: 1.15%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 08:24:21 +0000

End at: Sat, 29 Jul 2017 08:24:51 +0000

Local clock offset: 0.552 ms

Remote clock offset: -2.716 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:02:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 74.972 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 58.70 Mbit/s

95th percentile per-packet one-way delay: 73.999 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 39.89 Mbit/s

95th percentile per-packet one-way delay: 75.121 ms

Loss rate: 0.50%

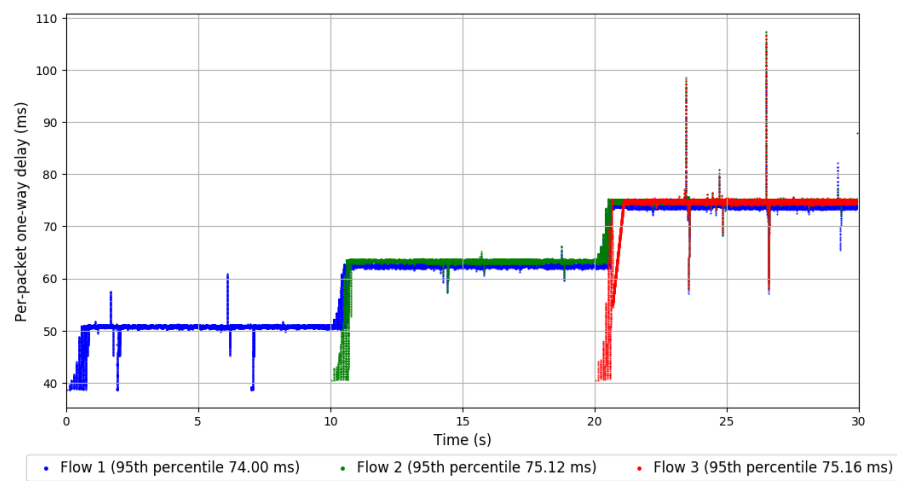
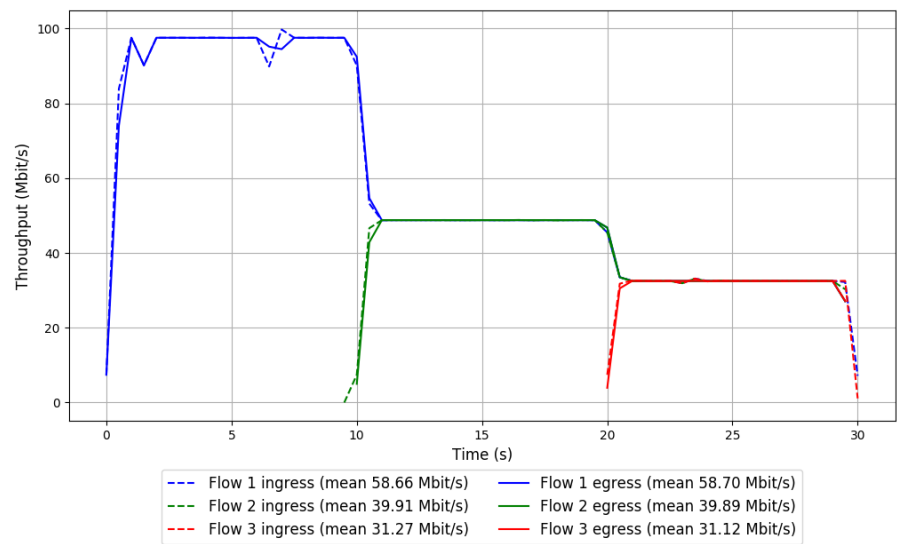
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 75.157 ms

Loss rate: 1.82%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 08:45:20 +0000

End at: Sat, 29 Jul 2017 08:45:50 +0000

Local clock offset: 0.602 ms

Remote clock offset: -2.591 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:02:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 74.922 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 74.149 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 75.143 ms

Loss rate: 0.87%

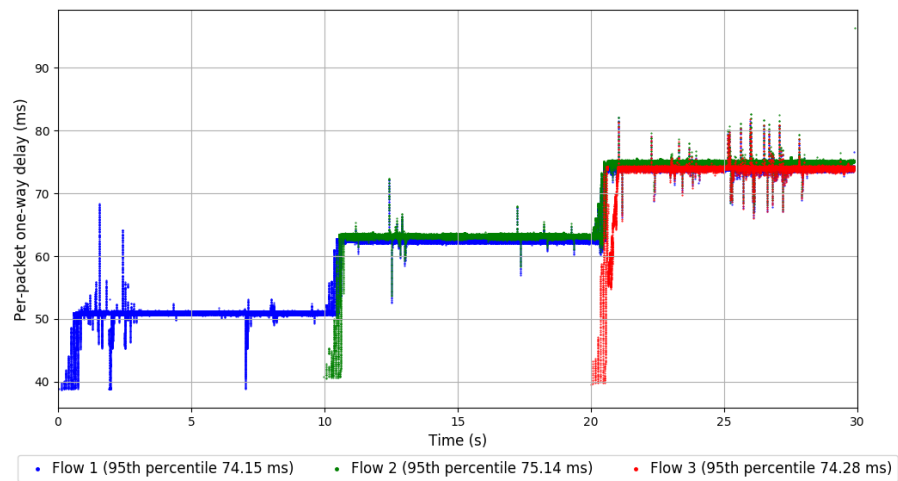
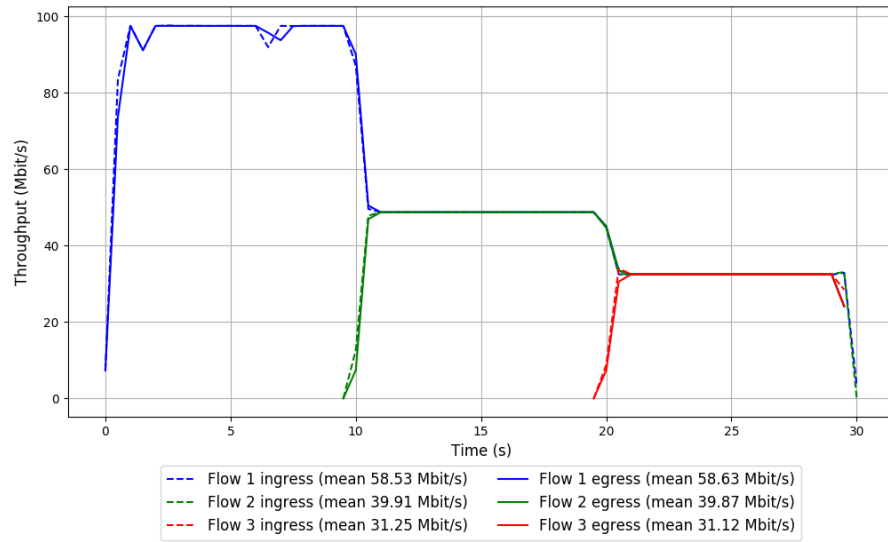
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 74.282 ms

Loss rate: 1.45%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 09:06:21 +0000

End at: Sat, 29 Jul 2017 09:06:51 +0000

Local clock offset: 0.452 ms

Remote clock offset: -2.47 ms

Run 4: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 09:27:19 +0000

End at: Sat, 29 Jul 2017 09:27:49 +0000

Local clock offset: 0.508 ms

Remote clock offset: -2.291 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:02:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 74.243 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 74.144 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 74.310 ms

Loss rate: 0.50%

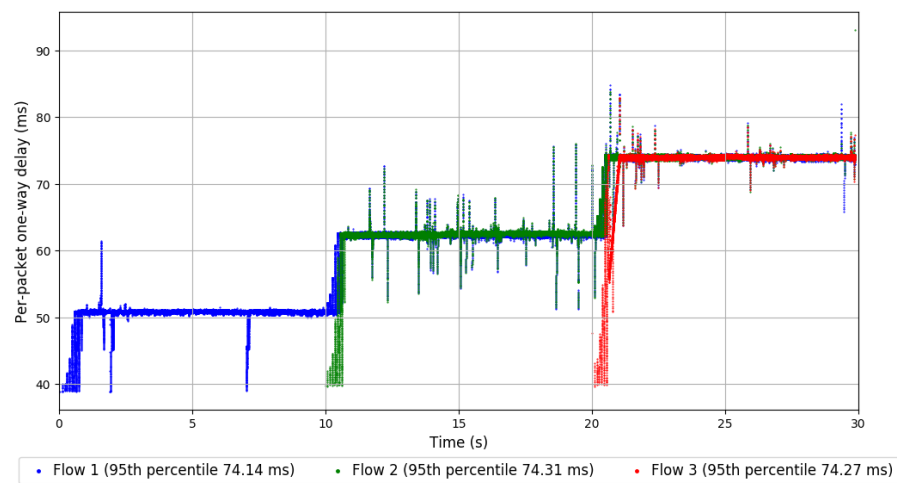
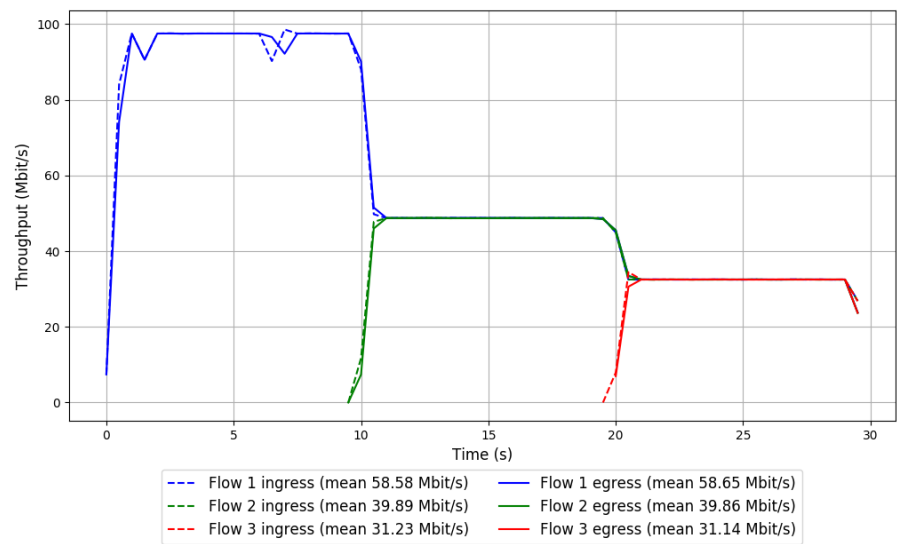
-- Flow 3:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 74.273 ms

Loss rate: 1.27%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 09:48:22 +0000

End at: Sat, 29 Jul 2017 09:48:52 +0000

Local clock offset: 0.368 ms

Remote clock offset: -2.3 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 74.854 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 74.929 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 39.89 Mbit/s

95th percentile per-packet one-way delay: 74.245 ms

Loss rate: 0.50%

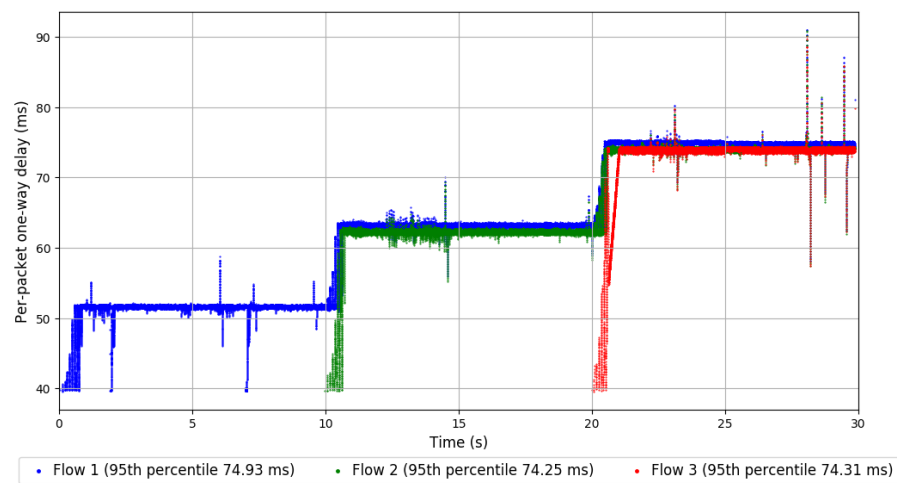
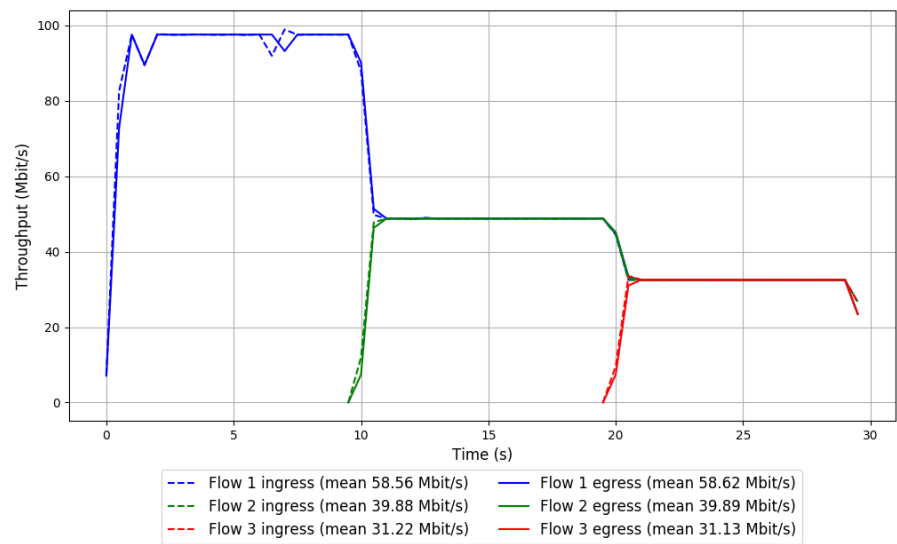
-- Flow 3:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 74.310 ms

Loss rate: 1.27%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 10:09:23 +0000

End at: Sat, 29 Jul 2017 10:09:53 +0000

Local clock offset: 0.471 ms

Remote clock offset: -2.329 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 74.804 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 74.705 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 74.812 ms

Loss rate: 0.49%

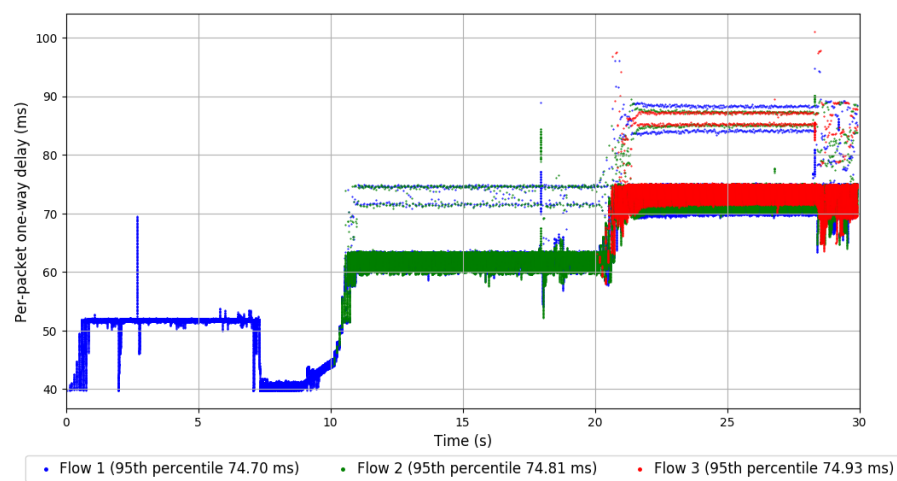
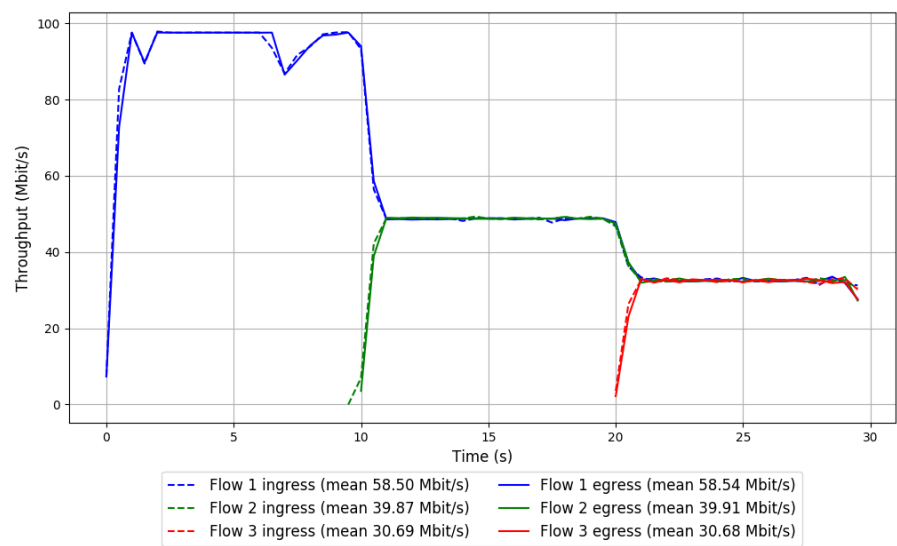
-- Flow 3:

Average throughput: 30.68 Mbit/s

95th percentile per-packet one-way delay: 74.934 ms

Loss rate: 1.31%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 10:30:37 +0000

End at: Sat, 29 Jul 2017 10:31:07 +0000

Local clock offset: 0.502 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 63.512 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 71.76 Mbit/s

95th percentile per-packet one-way delay: 63.624 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 62.606 ms

Loss rate: 0.37%

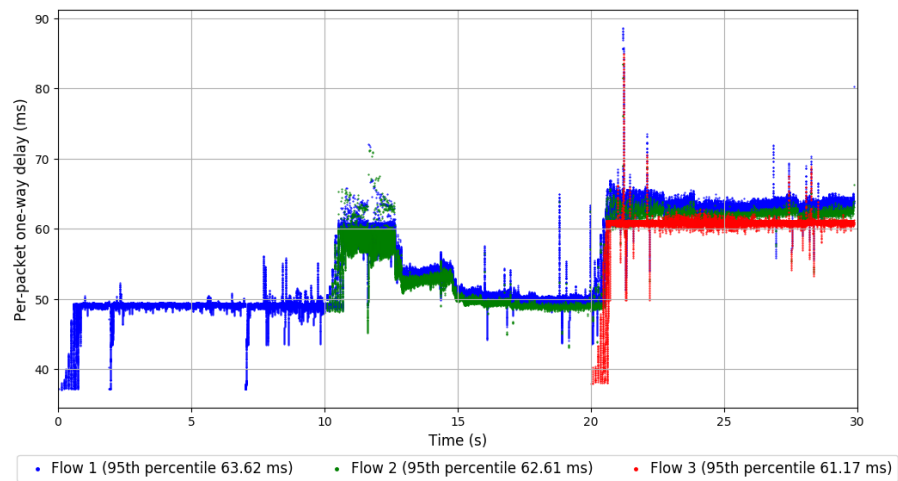
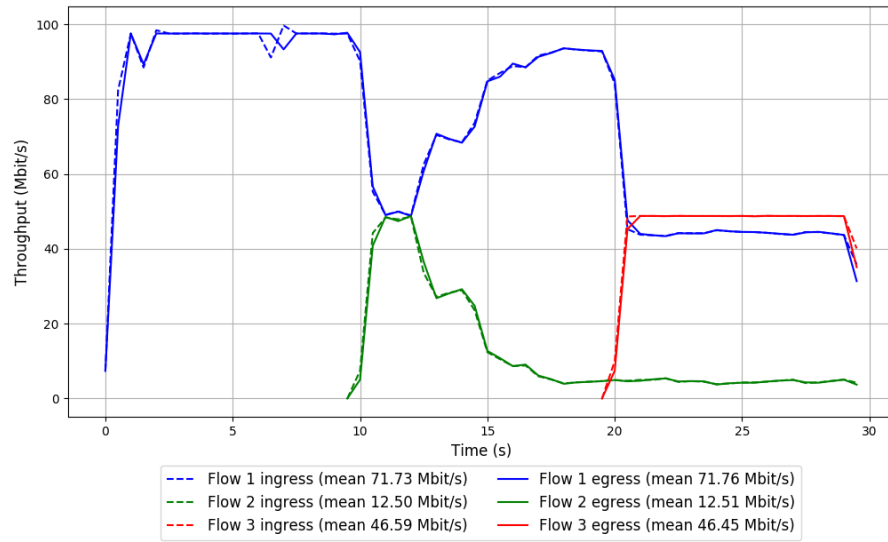
-- Flow 3:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 61.175 ms

Loss rate: 1.17%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 10:51:40 +0000

End at: Sat, 29 Jul 2017 10:52:10 +0000

Local clock offset: 0.498 ms

Remote clock offset: -0.197 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 83.154 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 60.662 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 36.13 Mbit/s

95th percentile per-packet one-way delay: 83.268 ms

Loss rate: 0.44%

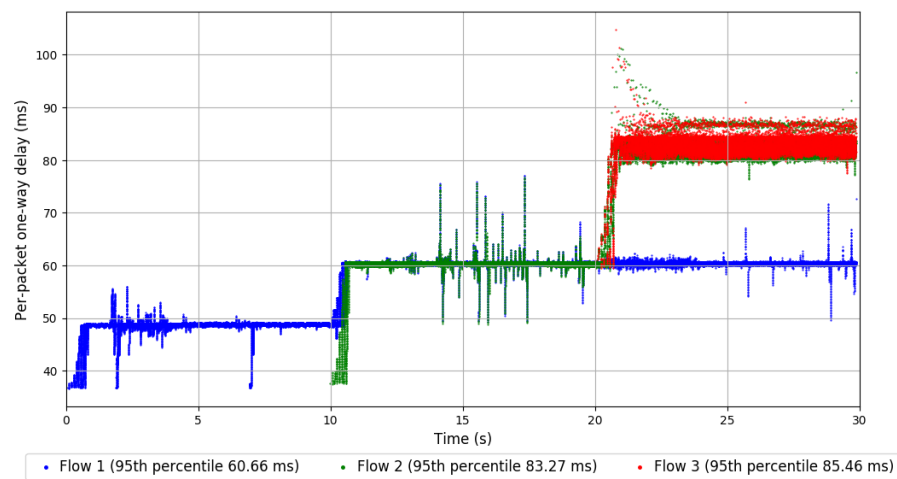
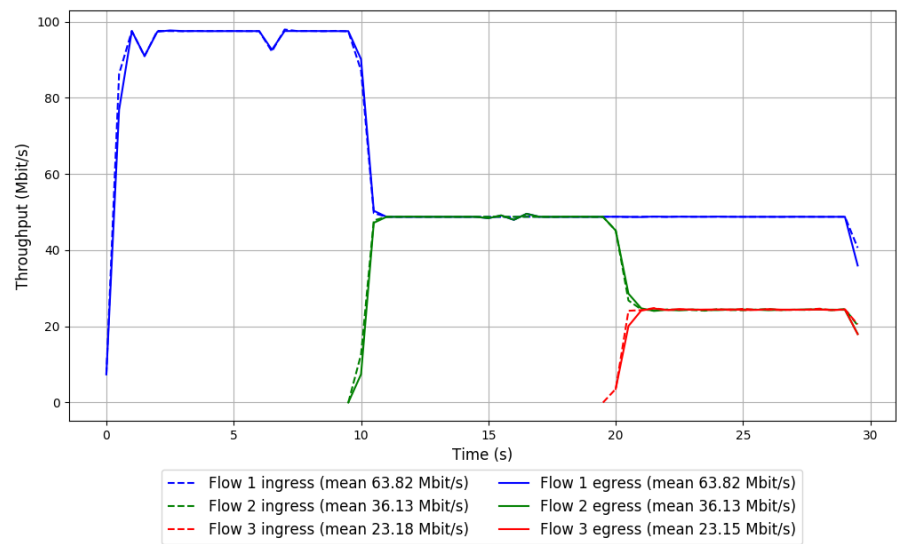
-- Flow 3:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 85.456 ms

Loss rate: 1.45%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: Sat, 29 Jul 2017 11:12:56 +0000

End at: Sat, 29 Jul 2017 11:13:26 +0000

Local clock offset: 0.567 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 72.425 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.71 Mbit/s

95th percentile per-packet one-way delay: 71.560 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 71.781 ms

Loss rate: 0.50%

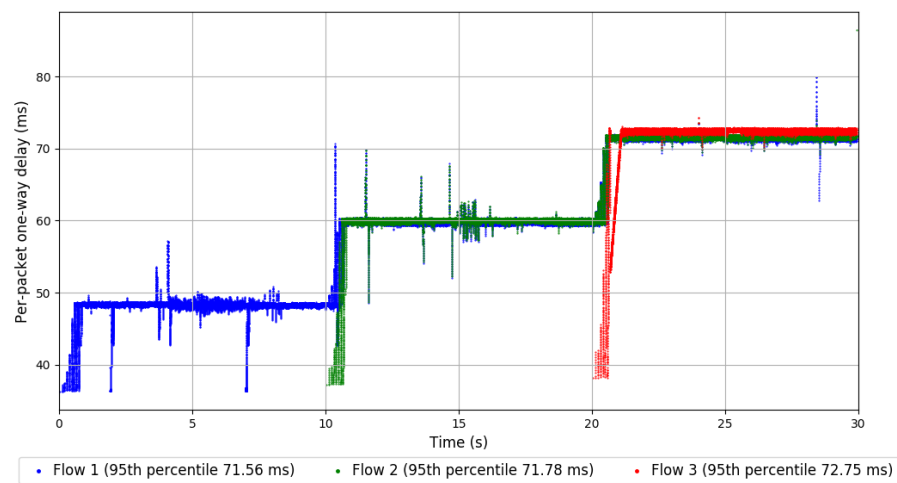
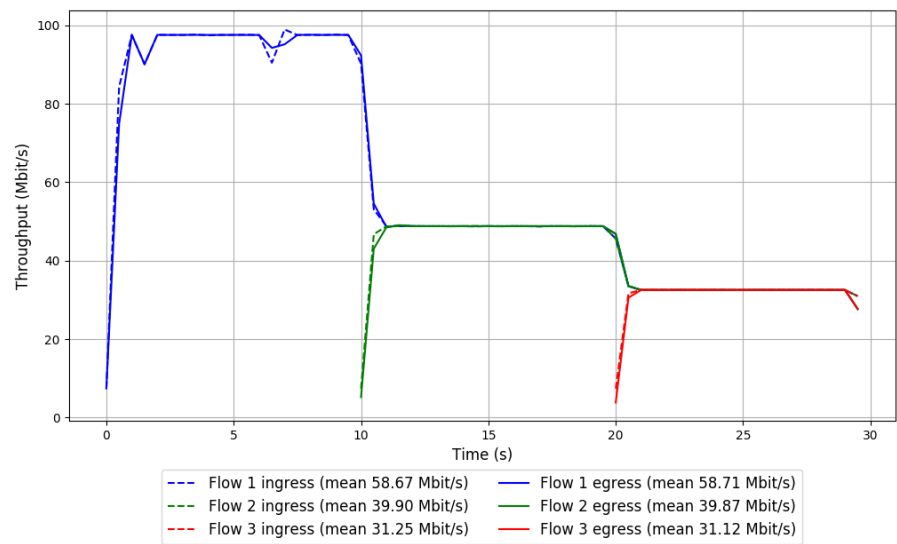
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 72.752 ms

Loss rate: 1.28%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Sat, 29 Jul 2017 08:06:10 +0000

End at: Sat, 29 Jul 2017 08:06:40 +0000

Local clock offset: 0.603 ms

Remote clock offset: -2.666 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.43 Mbit/s

95th percentile per-packet one-way delay: 40.498 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 40.722 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 40.309 ms

Loss rate: 0.45%

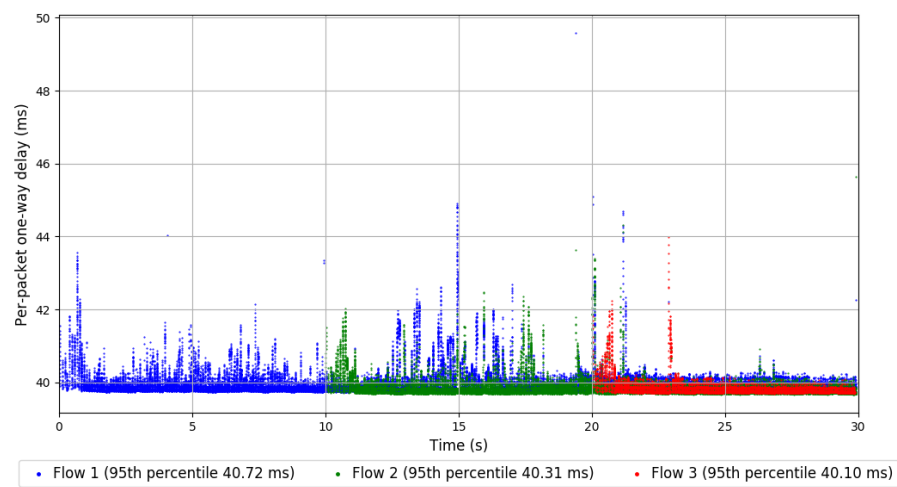
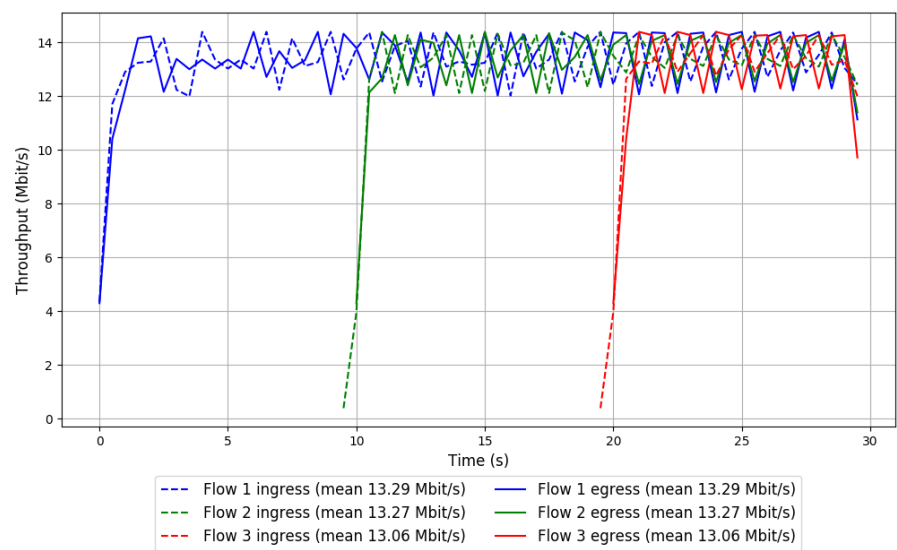
-- Flow 3:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 40.104 ms

Loss rate: 0.92%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

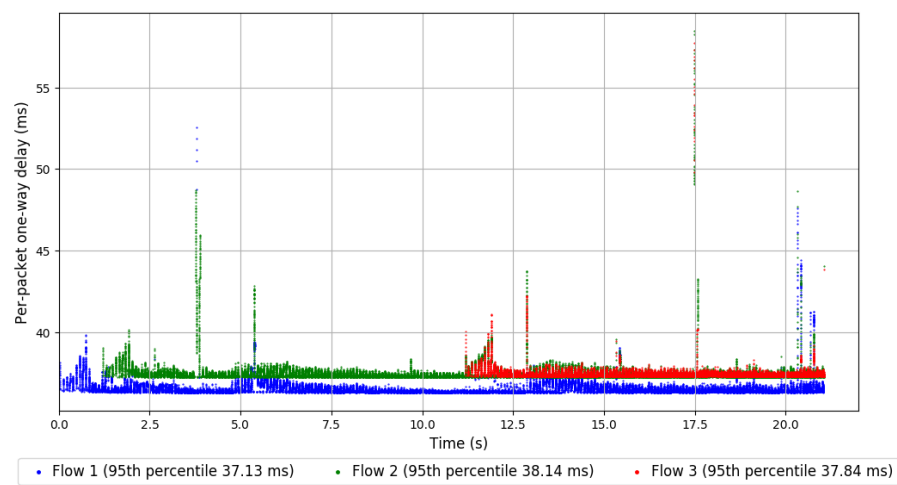
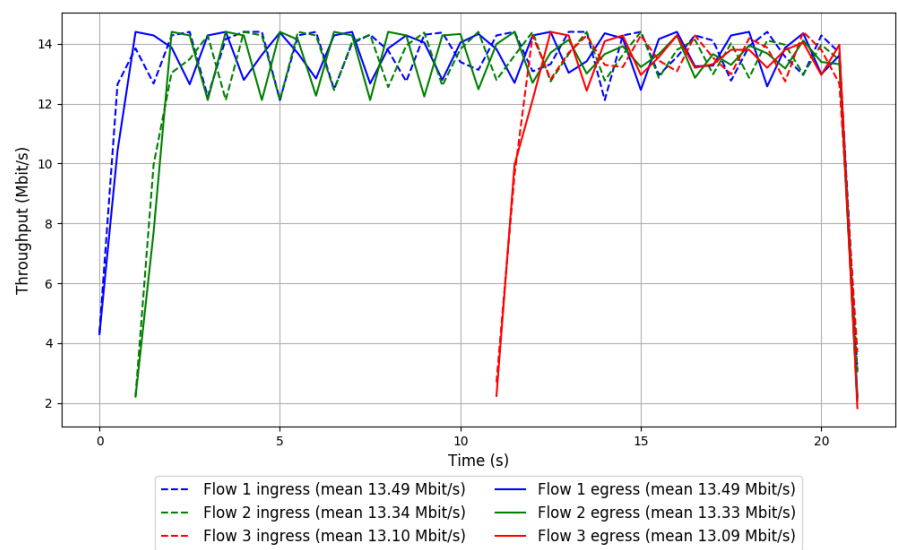
Start at: Sat, 29 Jul 2017 08:27:16 +0000

End at: Sat, 29 Jul 2017 08:27:46 +0000

Local clock offset: 0.634 ms

Remote clock offset: -0.255 ms

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Sat, 29 Jul 2017 08:48:14 +0000

End at: Sat, 29 Jul 2017 08:48:44 +0000

Local clock offset: 0.597 ms

Remote clock offset: -2.72 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 40.273 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 39.741 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 40.509 ms

Loss rate: 0.45%

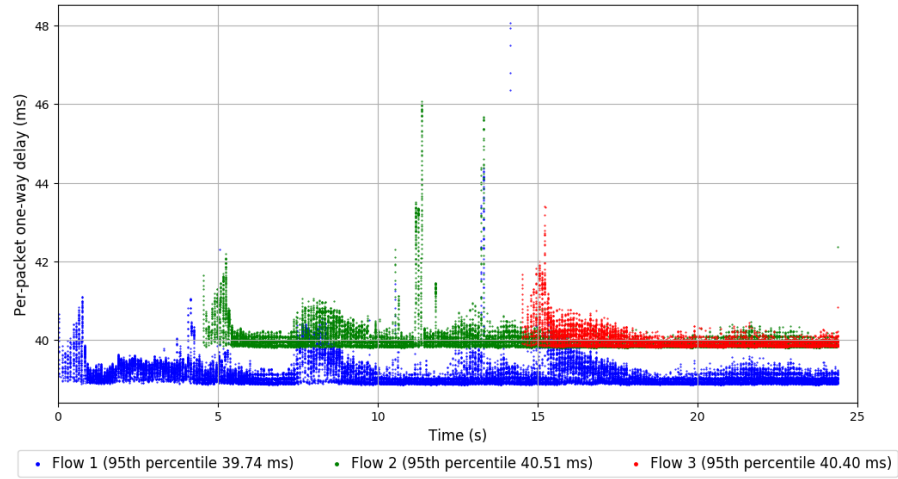
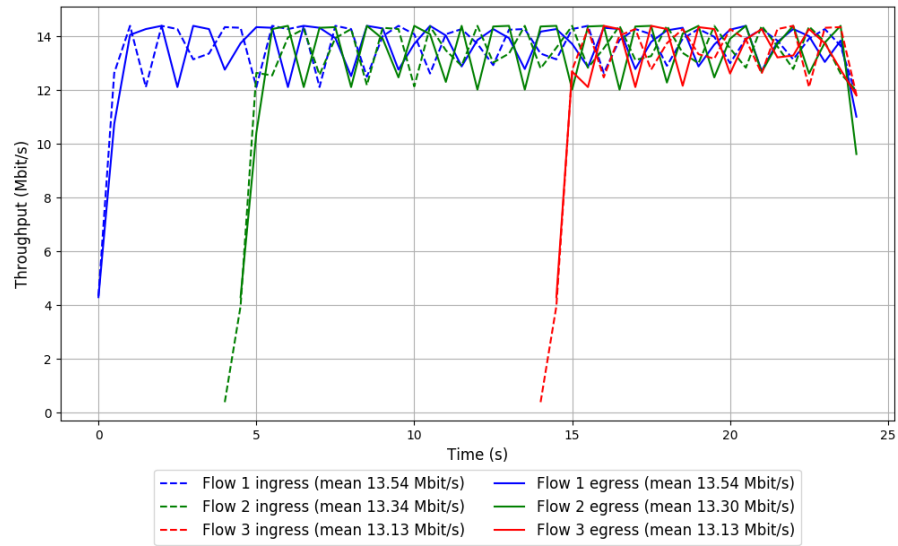
-- Flow 3:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 40.397 ms

Loss rate: 0.88%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: Sat, 29 Jul 2017 09:09:14 +0000

End at: Sat, 29 Jul 2017 09:09:44 +0000

Local clock offset: 0.538 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 37.663 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 36.955 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 37.753 ms

Loss rate: 0.49%

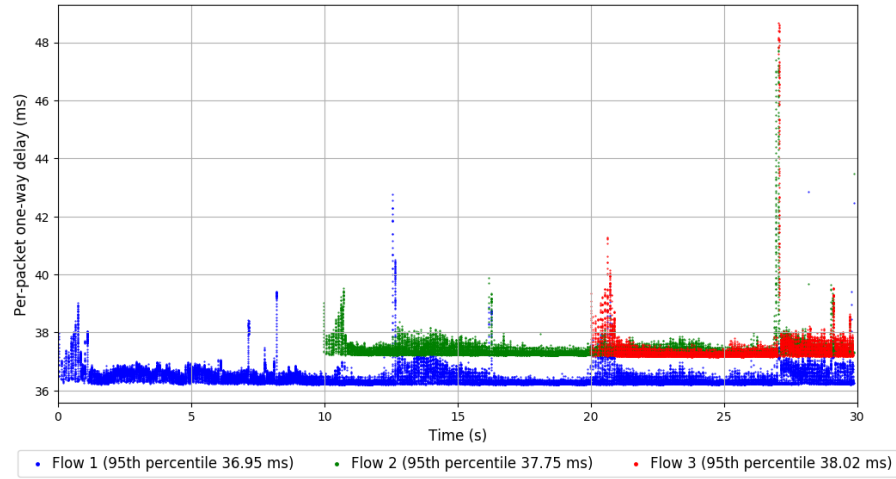
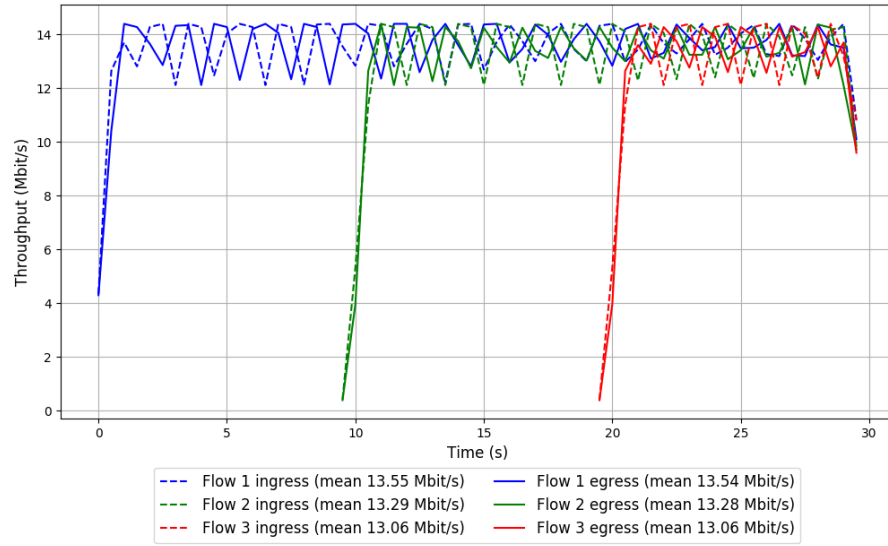
-- Flow 3:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 38.015 ms

Loss rate: 0.92%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

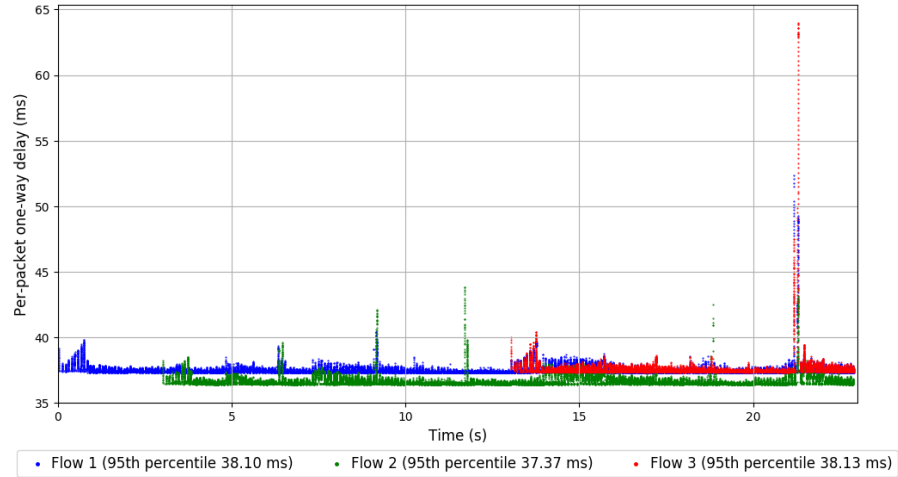
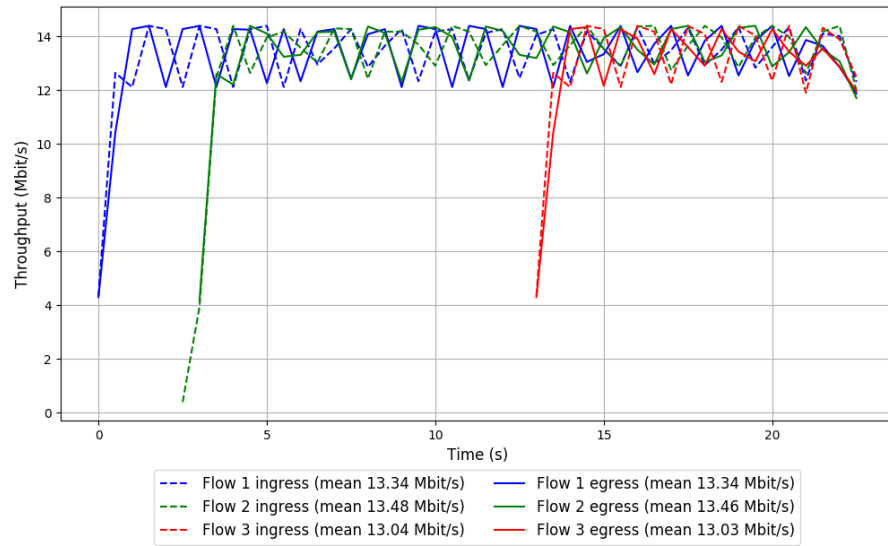
Start at: Sat, 29 Jul 2017 09:30:14 +0000

End at: Sat, 29 Jul 2017 09:30:44 +0000

Local clock offset: 0.497 ms

Remote clock offset: 0.2 ms

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

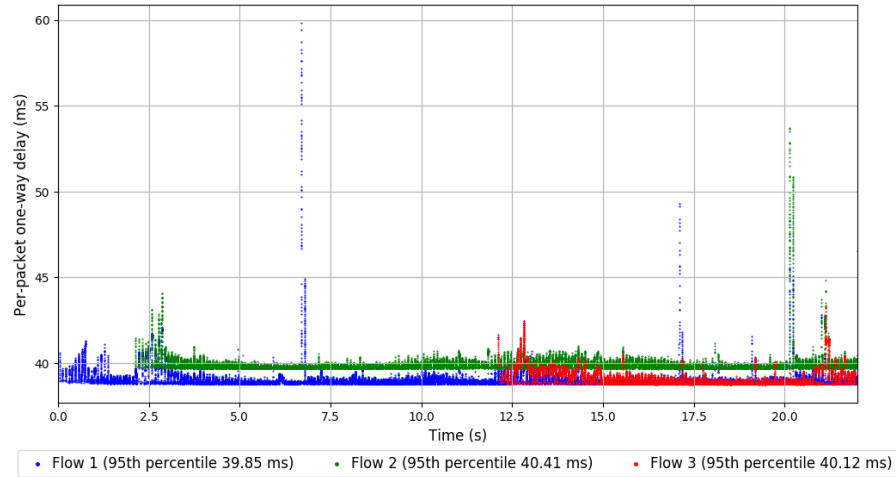
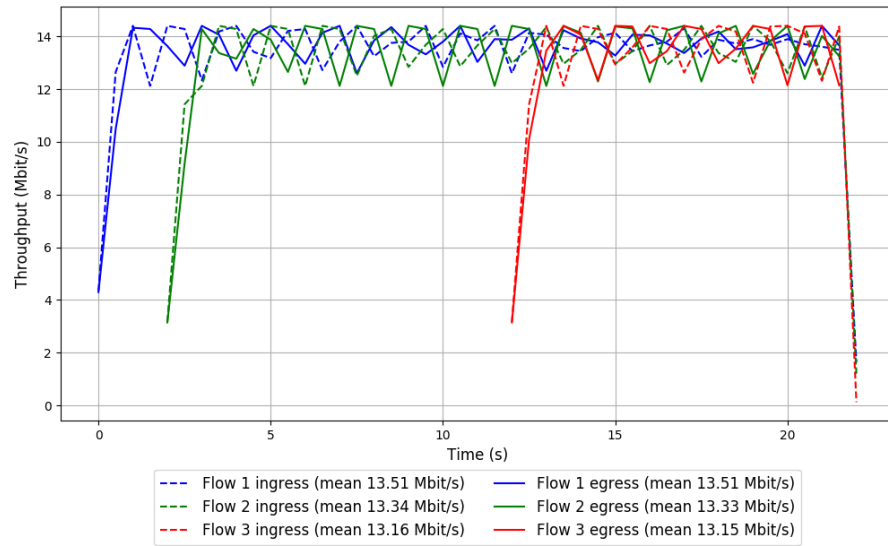
Start at: Sat, 29 Jul 2017 09:51:16 +0000

End at: Sat, 29 Jul 2017 09:51:46 +0000

Local clock offset: 0.504 ms

Remote clock offset: -2.151 ms

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Sat, 29 Jul 2017 10:12:19 +0000

End at: Sat, 29 Jul 2017 10:12:49 +0000

Local clock offset: 0.487 ms

Remote clock offset: -2.376 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 40.359 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 40.393 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 13.50 Mbit/s

95th percentile per-packet one-way delay: 39.570 ms

Loss rate: 0.44%

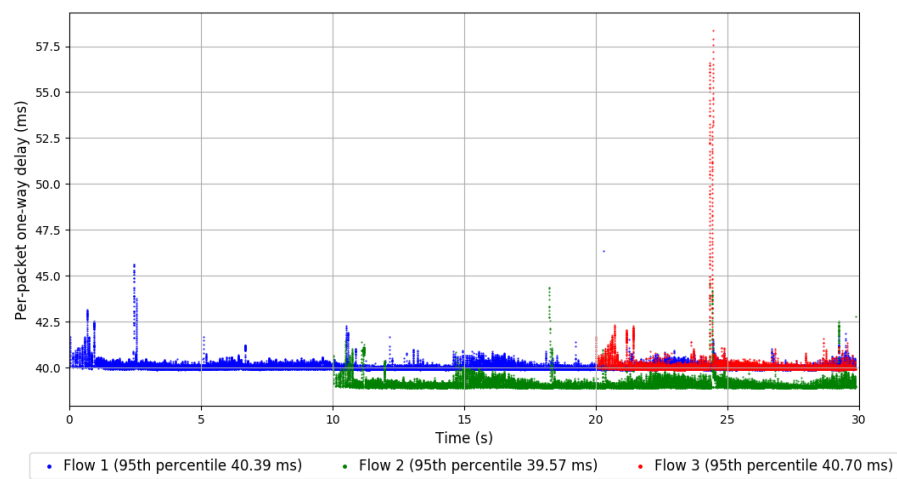
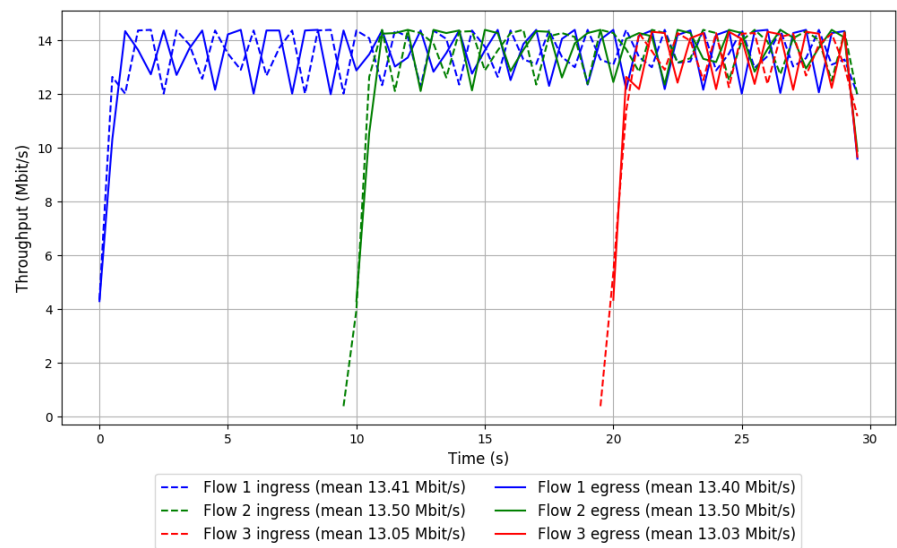
-- Flow 3:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 40.703 ms

Loss rate: 0.96%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Sat, 29 Jul 2017 10:33:32 +0000

End at: Sat, 29 Jul 2017 10:34:02 +0000

Local clock offset: 0.478 ms

Remote clock offset: -0.324 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.78 Mbit/s

95th percentile per-packet one-way delay: 38.115 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 13.52 Mbit/s

95th percentile per-packet one-way delay: 37.629 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 38.297 ms

Loss rate: 0.45%

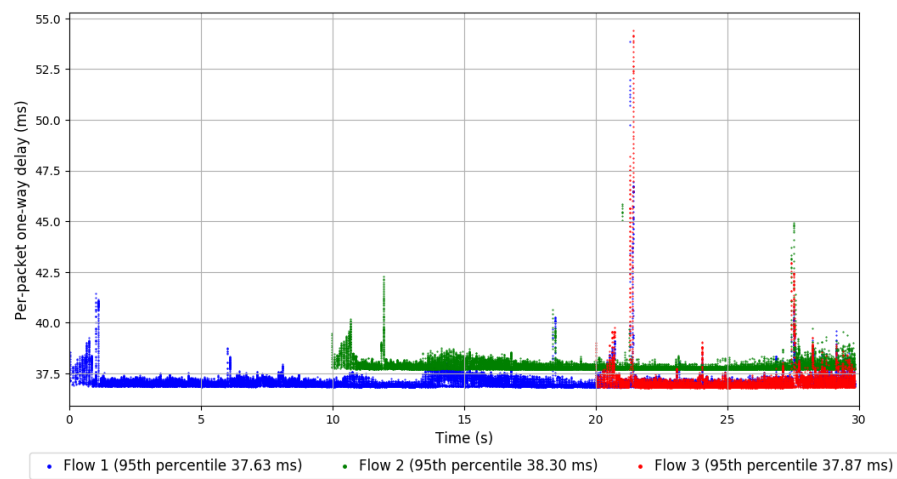
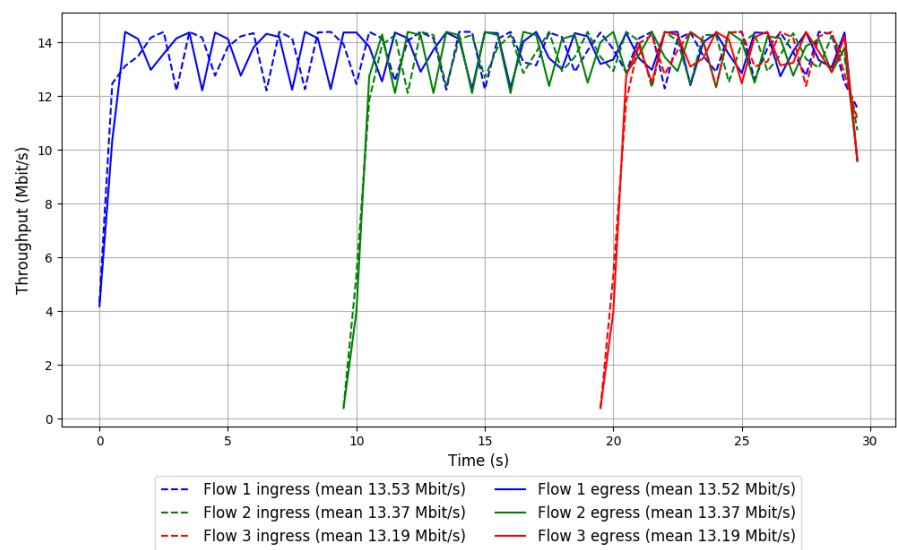
-- Flow 3:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 37.867 ms

Loss rate: 0.92%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Sat, 29 Jul 2017 10:54:34 +0000

End at: Sat, 29 Jul 2017 10:55:04 +0000

Local clock offset: 0.44 ms

Remote clock offset: -0.195 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.69 Mbit/s

95th percentile per-packet one-way delay: 38.197 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 13.50 Mbit/s

95th percentile per-packet one-way delay: 37.854 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 38.494 ms

Loss rate: 0.50%

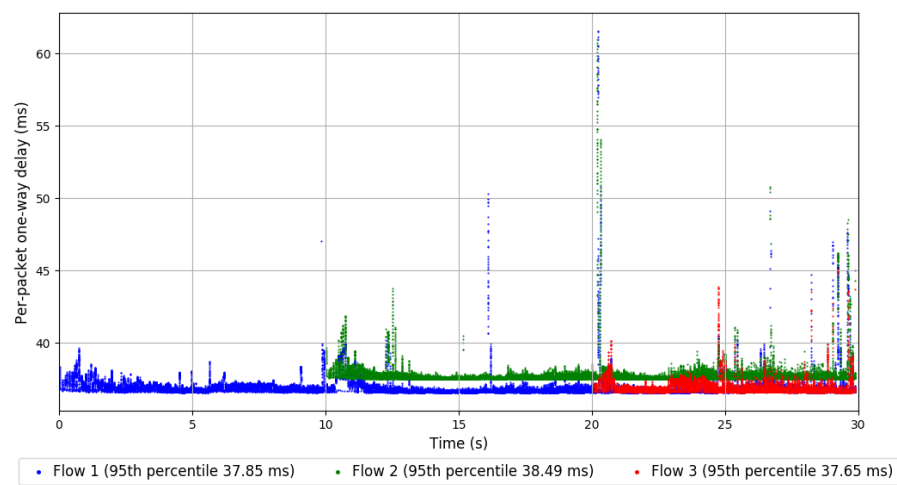
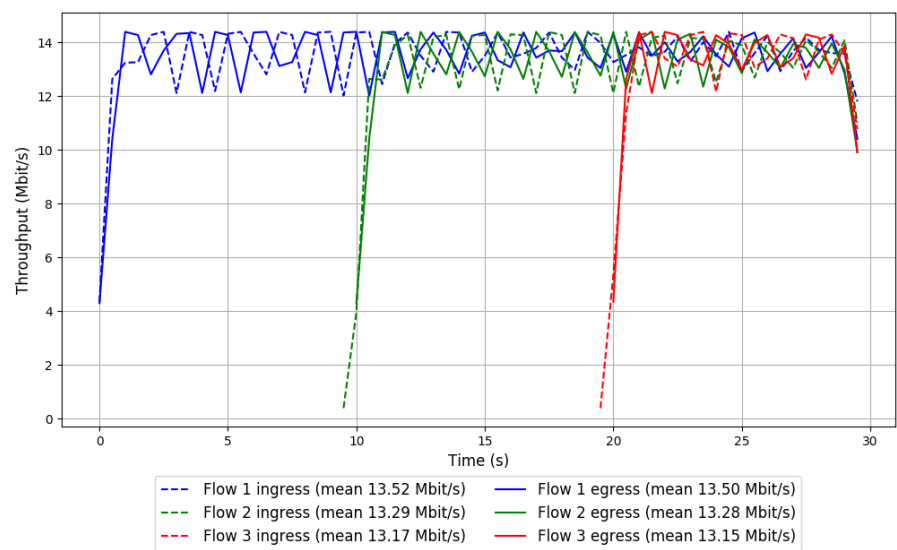
-- Flow 3:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 37.654 ms

Loss rate: 0.91%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

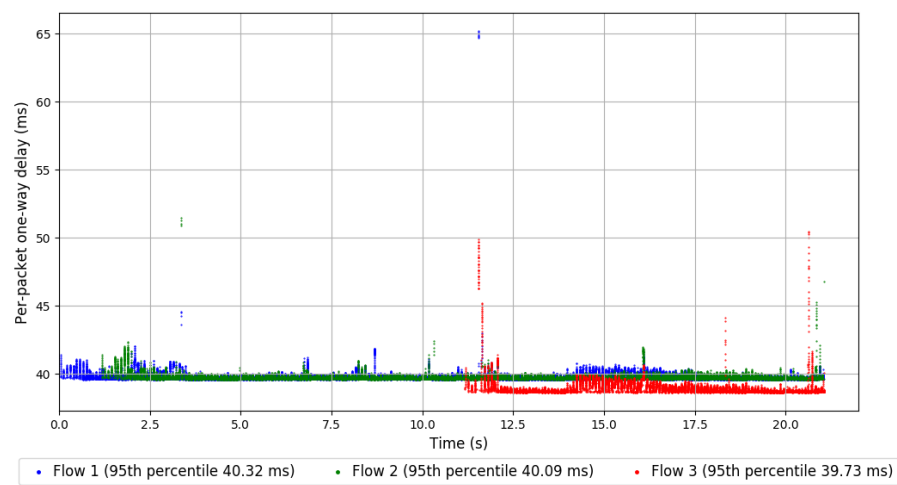
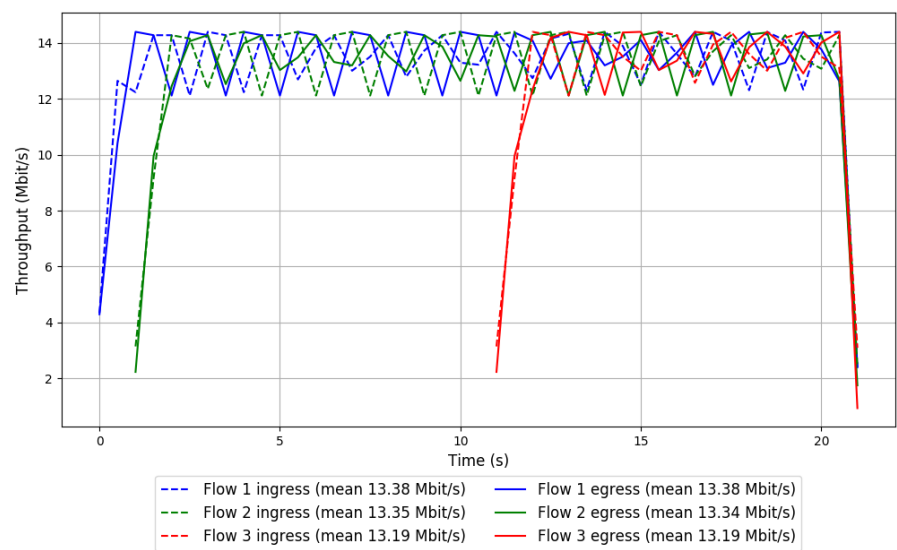
Start at: Sat, 29 Jul 2017 11:15:51 +0000

End at: Sat, 29 Jul 2017 11:16:21 +0000

Local clock offset: 0.479 ms

Remote clock offset: -2.24 ms

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 08:01:56 +0000

End at: Sat, 29 Jul 2017 08:02:26 +0000

Local clock offset: 0.599 ms

Remote clock offset: -2.484 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 41.019 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 40.603 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 40.968 ms

Loss rate: 0.88%

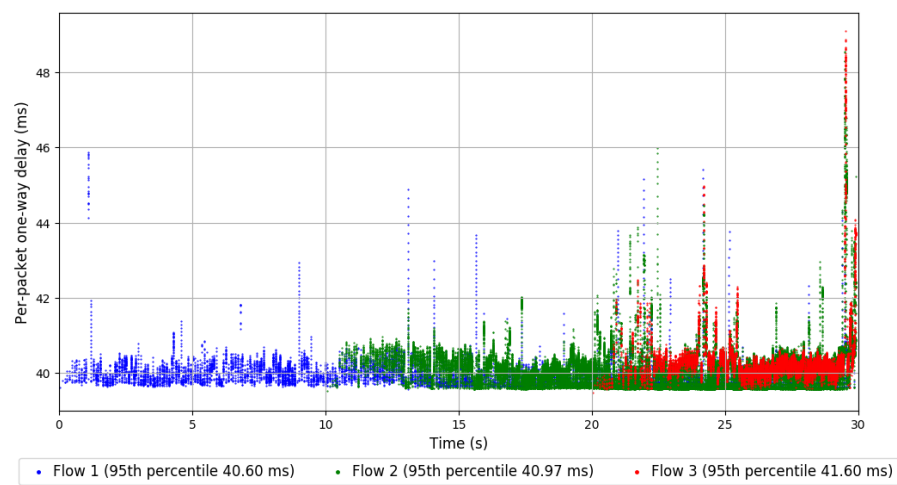
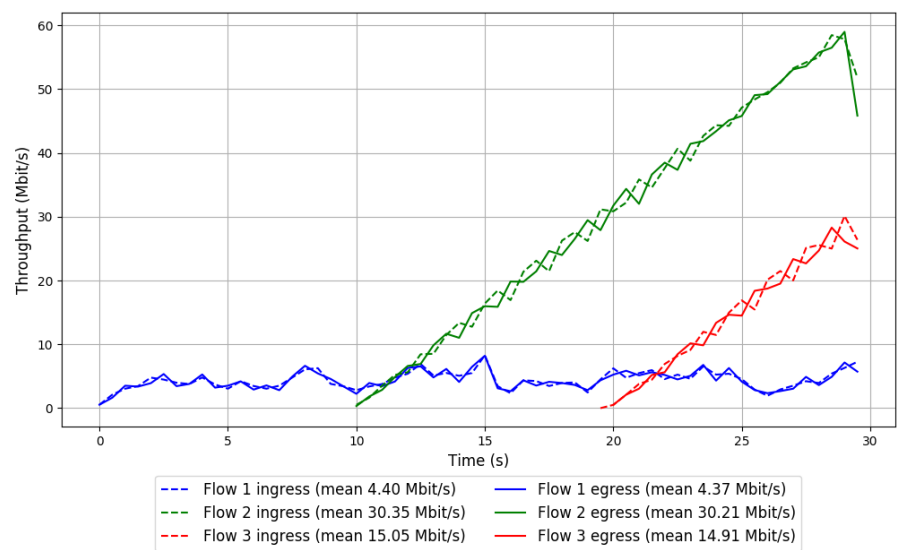
-- Flow 3:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 41.602 ms

Loss rate: 1.79%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 08:22:57 +0000

End at: Sat, 29 Jul 2017 08:23:27 +0000

Local clock offset: 0.548 ms

Remote clock offset: -0.613 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 69.029 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 36.29 Mbit/s

95th percentile per-packet one-way delay: 68.970 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 26.27 Mbit/s

95th percentile per-packet one-way delay: 69.402 ms

Loss rate: 0.76%

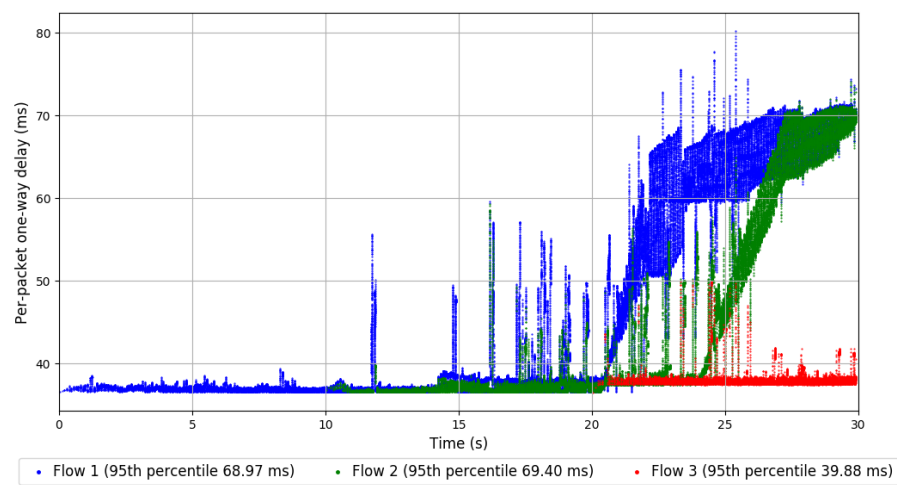
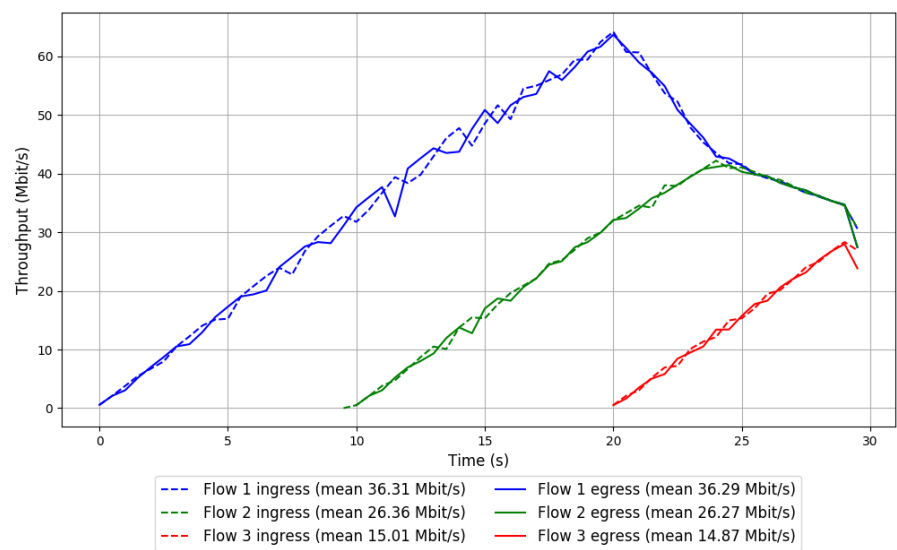
-- Flow 3:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 39.885 ms

Loss rate: 1.77%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 08:43:56 +0000

End at: Sat, 29 Jul 2017 08:44:26 +0000

Local clock offset: 0.611 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 70.073 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 70.091 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 26.37 Mbit/s

95th percentile per-packet one-way delay: 70.439 ms

Loss rate: 0.76%

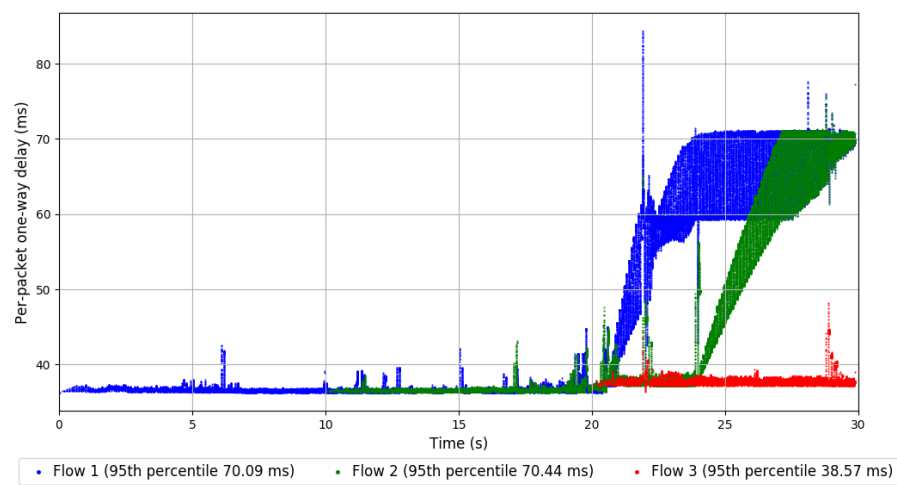
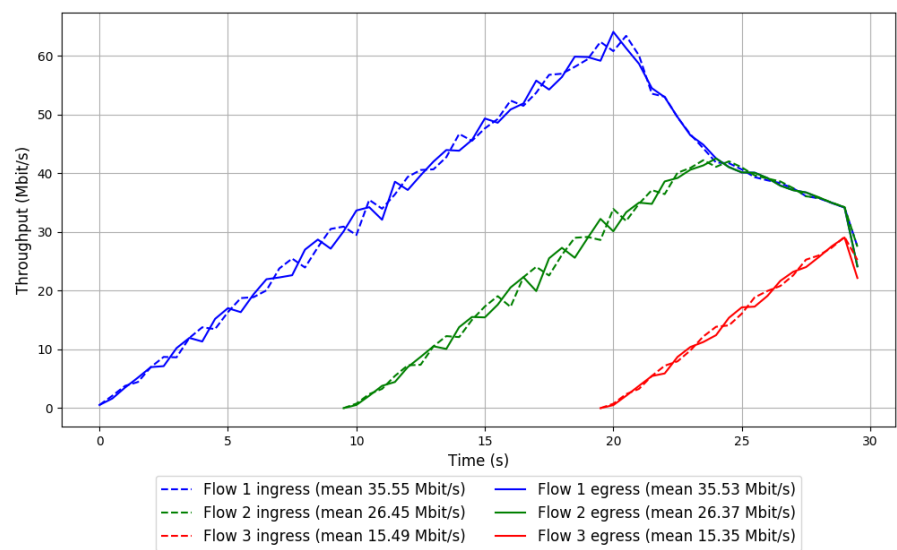
-- Flow 3:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 38.568 ms

Loss rate: 1.76%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 09:04:59 +0000

End at: Sat, 29 Jul 2017 09:05:29 +0000

Local clock offset: 0.574 ms

Remote clock offset: -0.42 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:03:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 38.689 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 38.362 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 38.581 ms

Loss rate: 0.48%

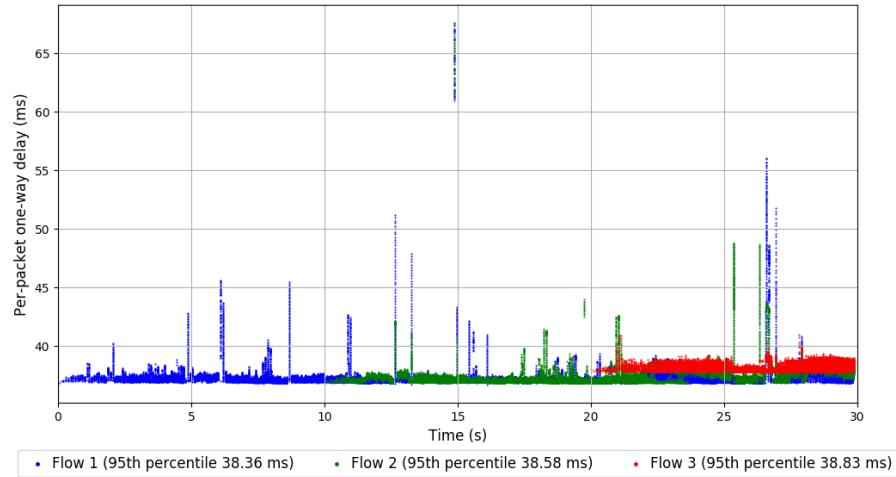
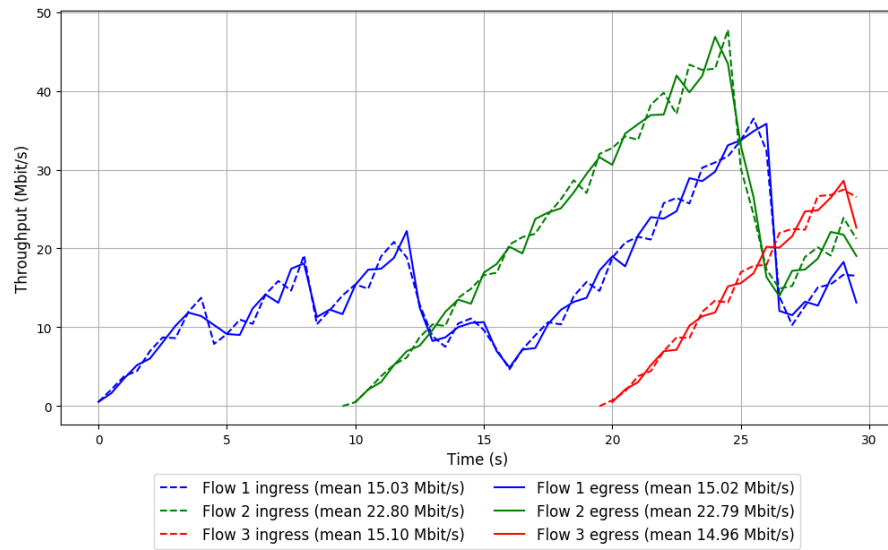
-- Flow 3:

Average throughput: 14.96 Mbit/s

95th percentile per-packet one-way delay: 38.828 ms

Loss rate: 1.79%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 09:25:54 +0000

End at: Sat, 29 Jul 2017 09:26:24 +0000

Local clock offset: 0.54 ms

Remote clock offset: -0.236 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.92 Mbit/s

95th percentile per-packet one-way delay: 62.039 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 37.38 Mbit/s

95th percentile per-packet one-way delay: 63.178 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 28.99 Mbit/s

95th percentile per-packet one-way delay: 56.933 ms

Loss rate: 0.88%

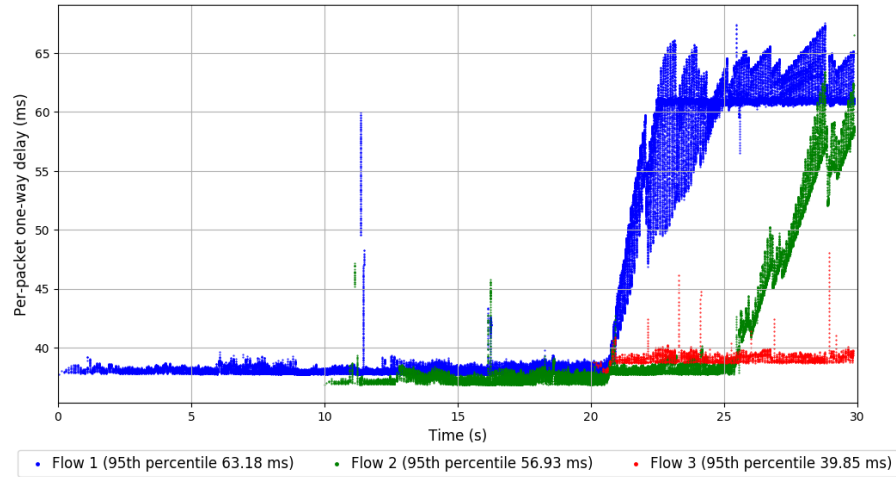
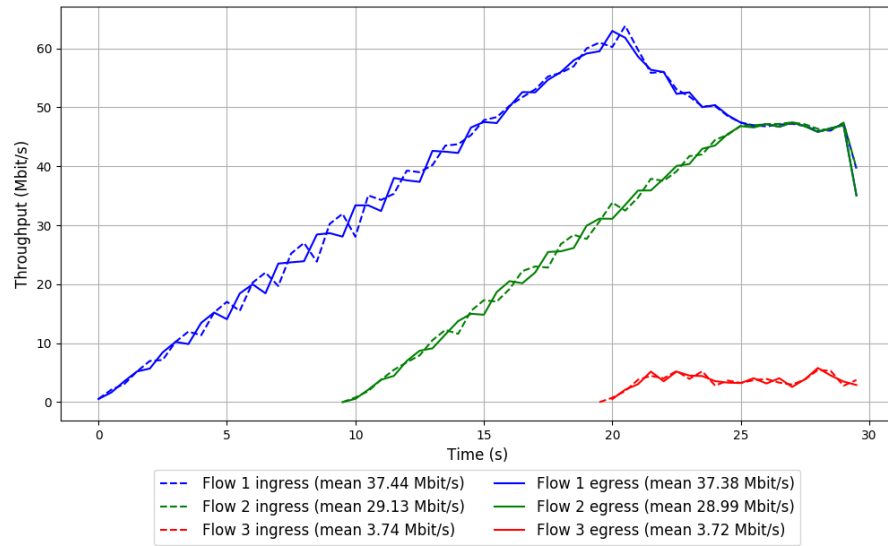
-- Flow 3:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 39.846 ms

Loss rate: 1.49%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 09:46:58 +0000

End at: Sat, 29 Jul 2017 09:47:28 +0000

Local clock offset: 0.475 ms

Remote clock offset: -2.266 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 63.815 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 63.194 ms

Loss rate: 0.85%

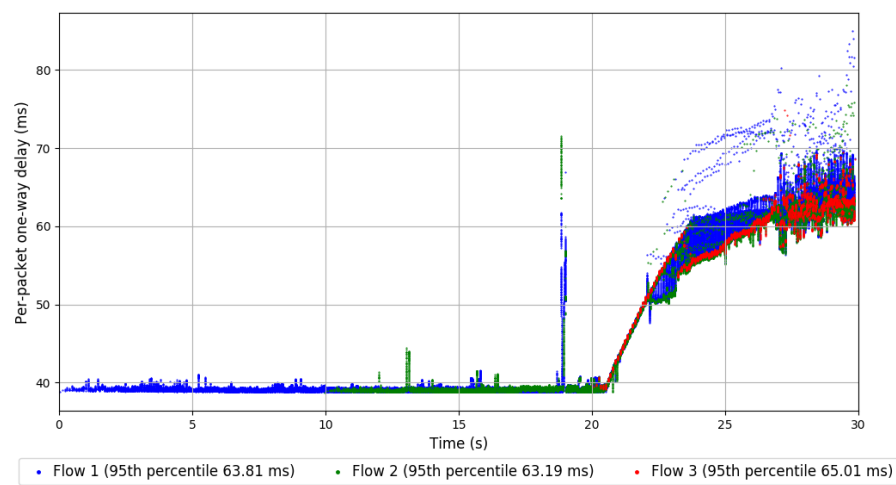
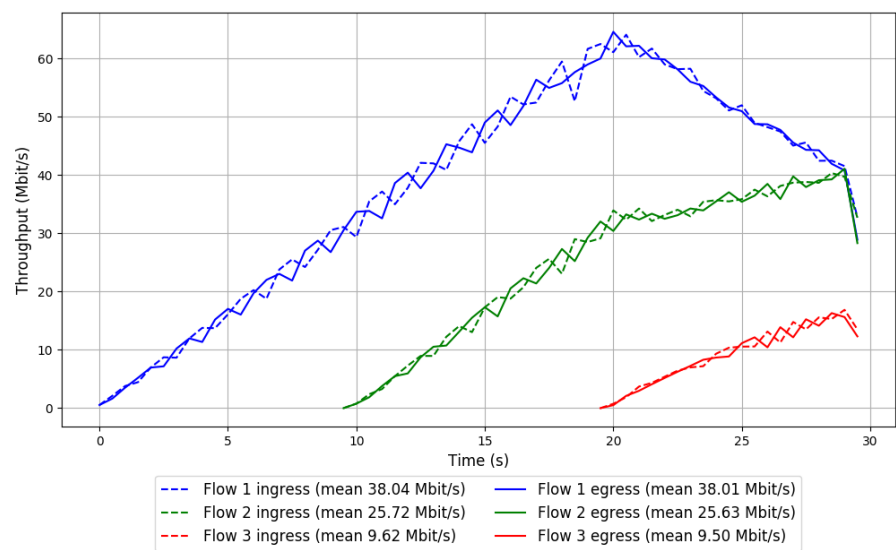
-- Flow 3:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 65.008 ms

Loss rate: 2.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 10:07:59 +0000

End at: Sat, 29 Jul 2017 10:08:29 +0000

Local clock offset: 0.451 ms

Remote clock offset: -0.235 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.79 Mbit/s

95th percentile per-packet one-way delay: 69.716 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 69.416 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 70.468 ms

Loss rate: 0.78%

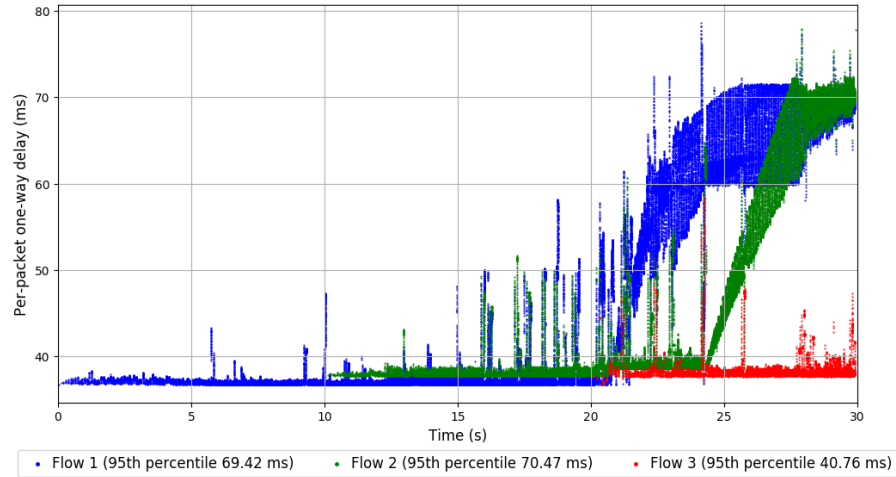
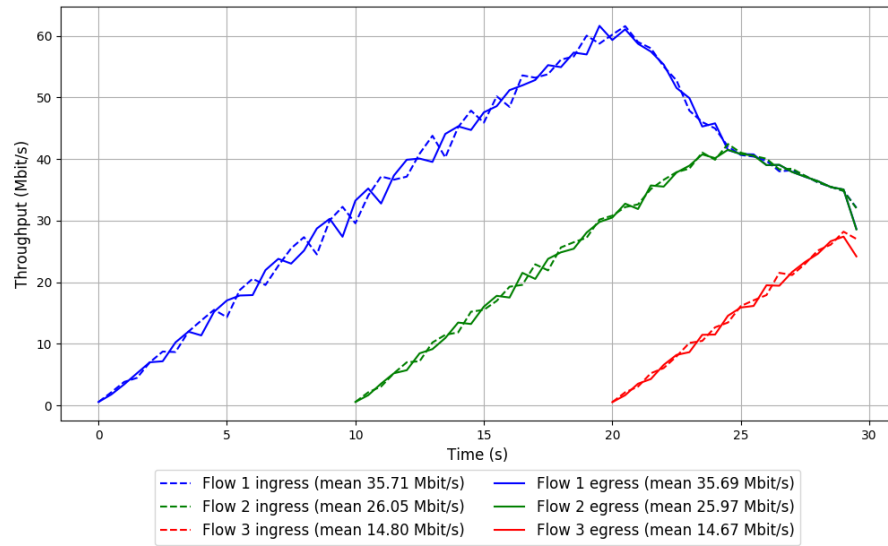
-- Flow 3:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 40.756 ms

Loss rate: 1.77%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 10:29:13 +0000

End at: Sat, 29 Jul 2017 10:29:43 +0000

Local clock offset: 0.498 ms

Remote clock offset: -0.241 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.71 Mbit/s

95th percentile per-packet one-way delay: 69.808 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 61.019 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 25.31 Mbit/s

95th percentile per-packet one-way delay: 71.178 ms

Loss rate: 0.78%

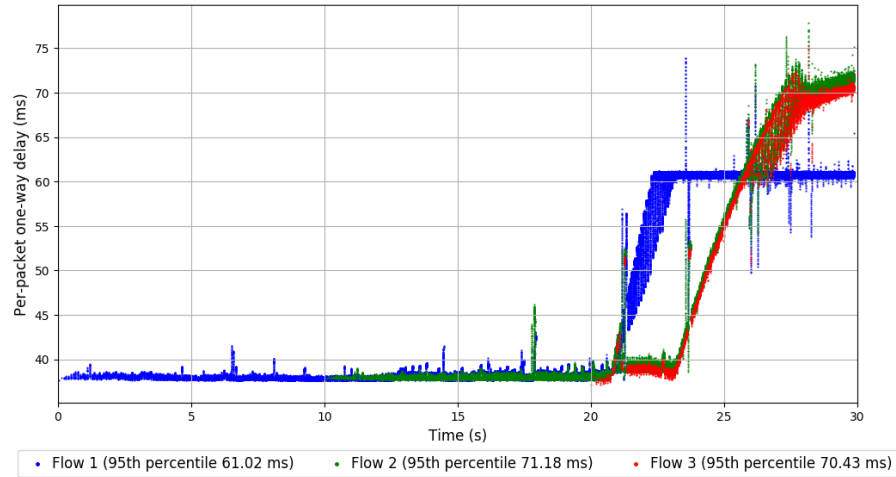
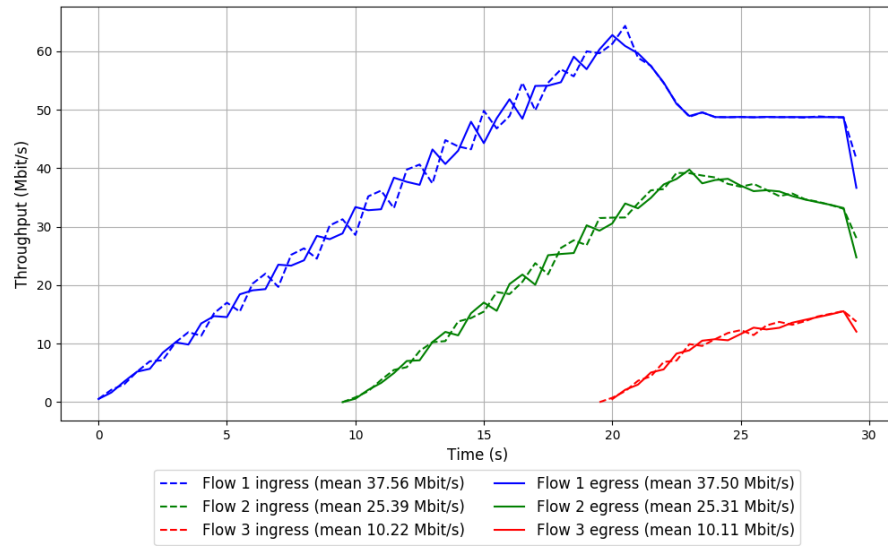
-- Flow 3:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 70.426 ms

Loss rate: 1.92%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 10:50:16 +0000

End at: Sat, 29 Jul 2017 10:50:46 +0000

Local clock offset: 0.421 ms

Remote clock offset: -2.331 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 72.875 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 35.59 Mbit/s

95th percentile per-packet one-way delay: 72.580 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 73.945 ms

Loss rate: 0.77%

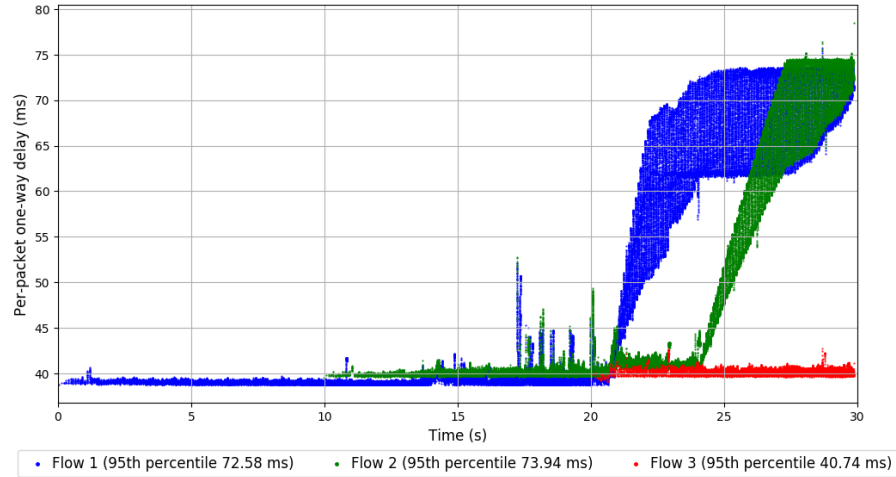
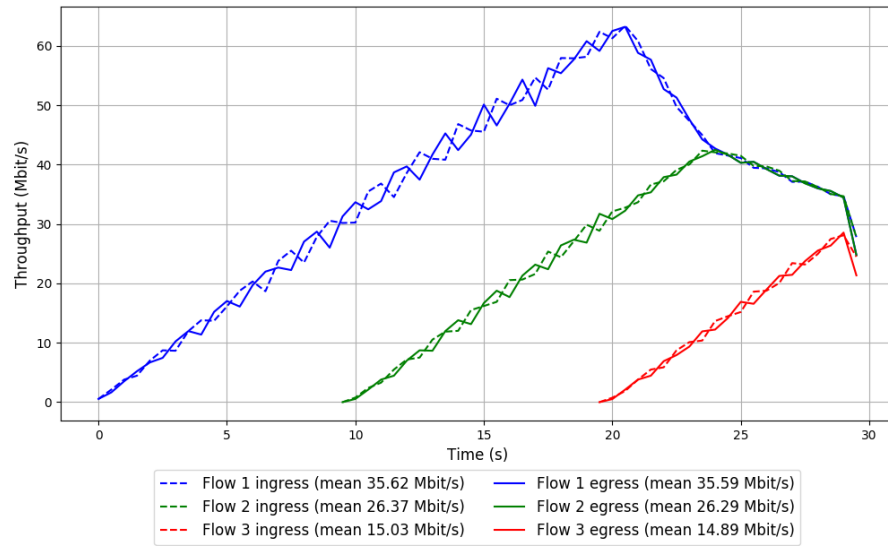
-- Flow 3:

Average throughput: 14.89 Mbit/s

95th percentile per-packet one-way delay: 40.741 ms

Loss rate: 1.78%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: Sat, 29 Jul 2017 11:11:32 +0000

End at: Sat, 29 Jul 2017 11:12:02 +0000

Local clock offset: 0.551 ms

Remote clock offset: -0.183 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.99 Mbit/s

95th percentile per-packet one-way delay: 62.523 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 39.51 Mbit/s

95th percentile per-packet one-way delay: 61.545 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 24.79 Mbit/s

95th percentile per-packet one-way delay: 63.431 ms

Loss rate: 0.88%

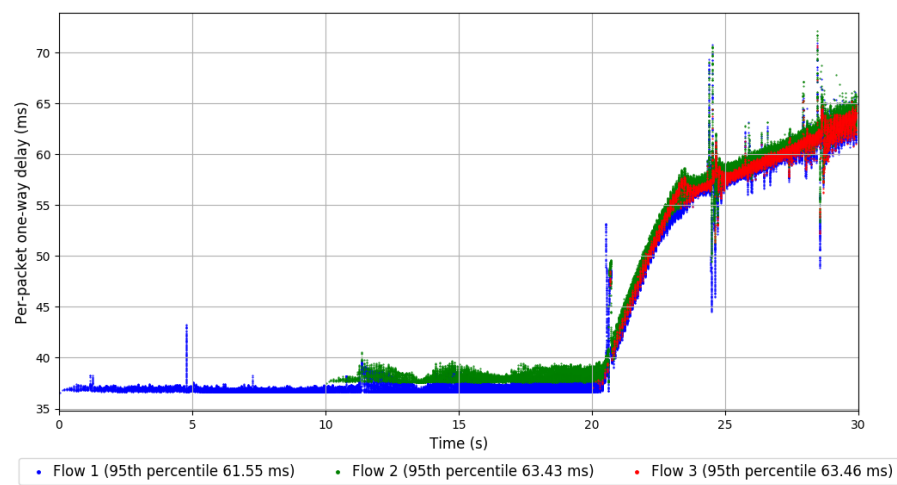
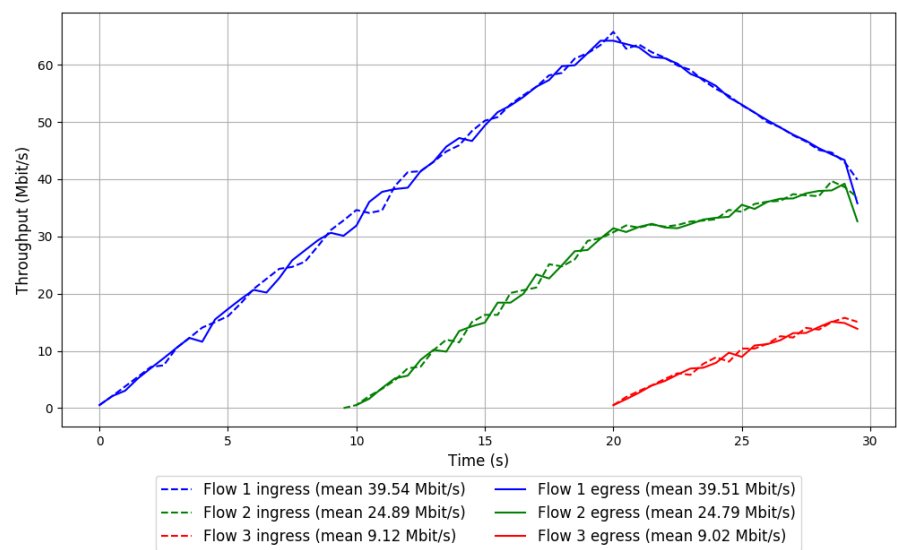
-- Flow 3:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 63.464 ms

Loss rate: 2.03%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Sat, 29 Jul 2017 07:52:07 +0000

End at: Sat, 29 Jul 2017 07:52:37 +0000

Local clock offset: 0.611 ms

Remote clock offset: -0.224 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.83 Mbit/s

95th percentile per-packet one-way delay: 70.973 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 56.88 Mbit/s

95th percentile per-packet one-way delay: 70.176 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 71.051 ms

Loss rate: 0.72%

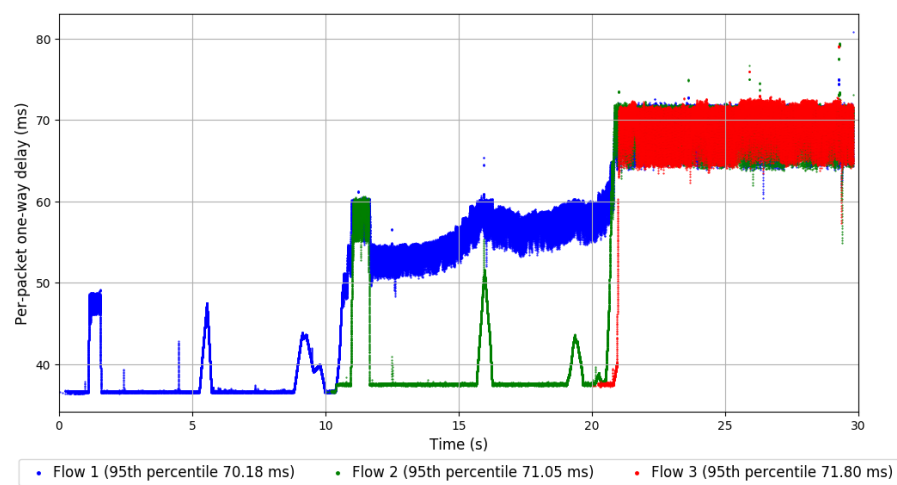
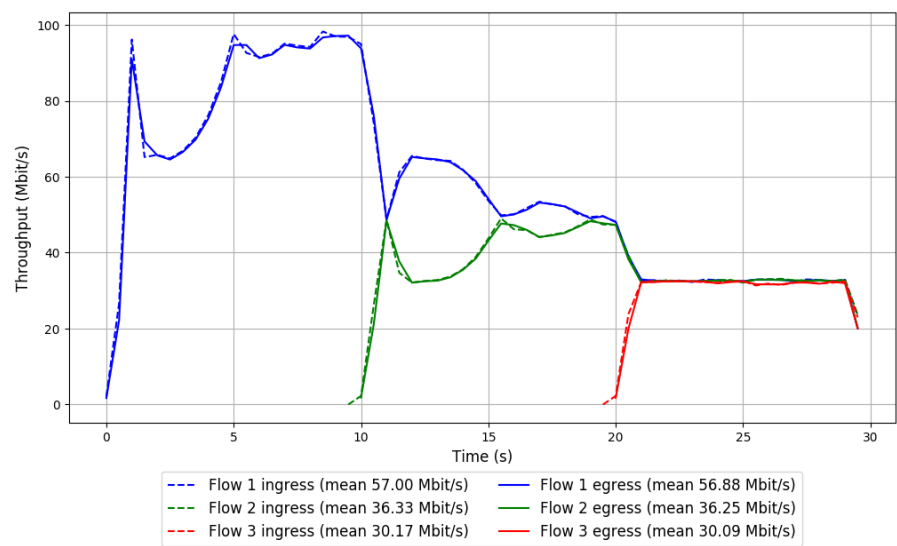
-- Flow 3:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 71.801 ms

Loss rate: 1.28%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Sat, 29 Jul 2017 08:13:07 +0000

End at: Sat, 29 Jul 2017 08:13:38 +0000

Local clock offset: 0.598 ms

Remote clock offset: -0.244 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.76 Mbit/s

95th percentile per-packet one-way delay: 71.181 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 57.79 Mbit/s

95th percentile per-packet one-way delay: 69.276 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 36.58 Mbit/s

95th percentile per-packet one-way delay: 71.621 ms

Loss rate: 0.58%

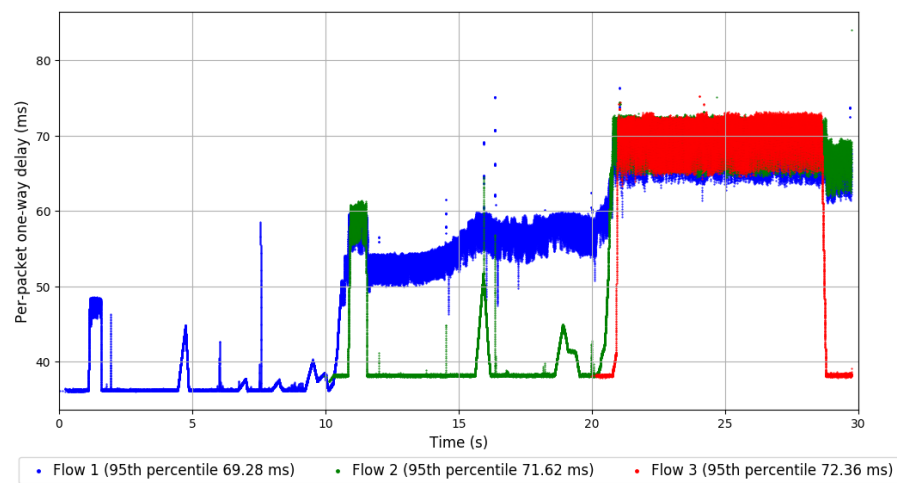
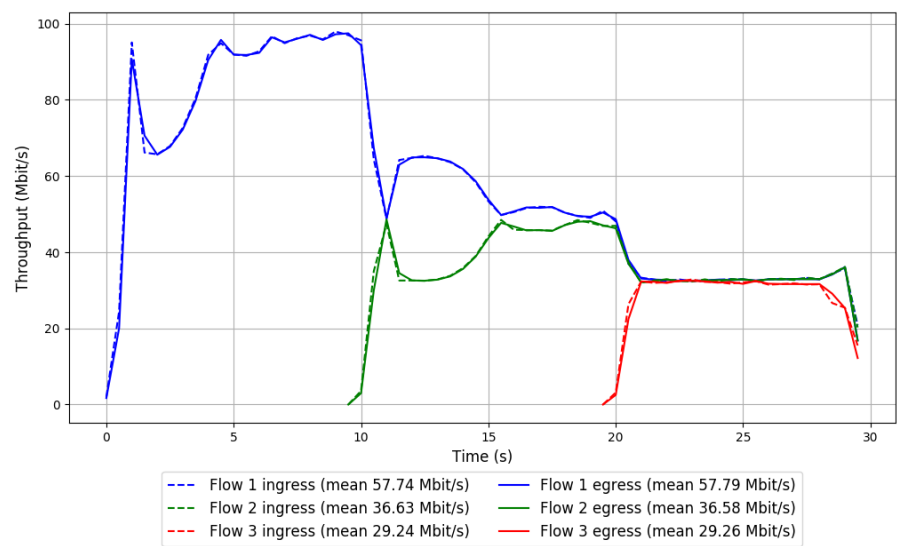
-- Flow 3:

Average throughput: 29.26 Mbit/s

95th percentile per-packet one-way delay: 72.365 ms

Loss rate: 0.91%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Sat, 29 Jul 2017 08:34:11 +0000

End at: Sat, 29 Jul 2017 08:34:41 +0000

Local clock offset: 0.547 ms

Remote clock offset: -0.638 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.71 Mbit/s

95th percentile per-packet one-way delay: 64.084 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 58.48 Mbit/s

95th percentile per-packet one-way delay: 64.517 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 44.19 Mbit/s

95th percentile per-packet one-way delay: 47.657 ms

Loss rate: 0.47%

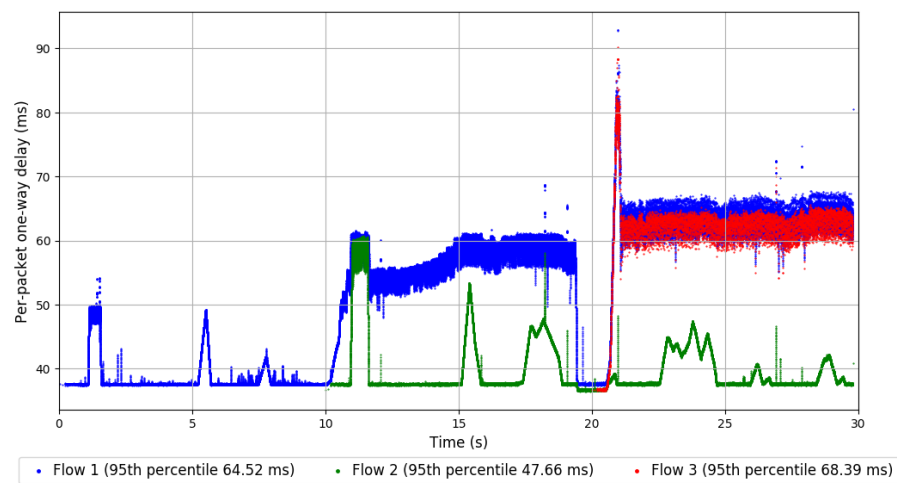
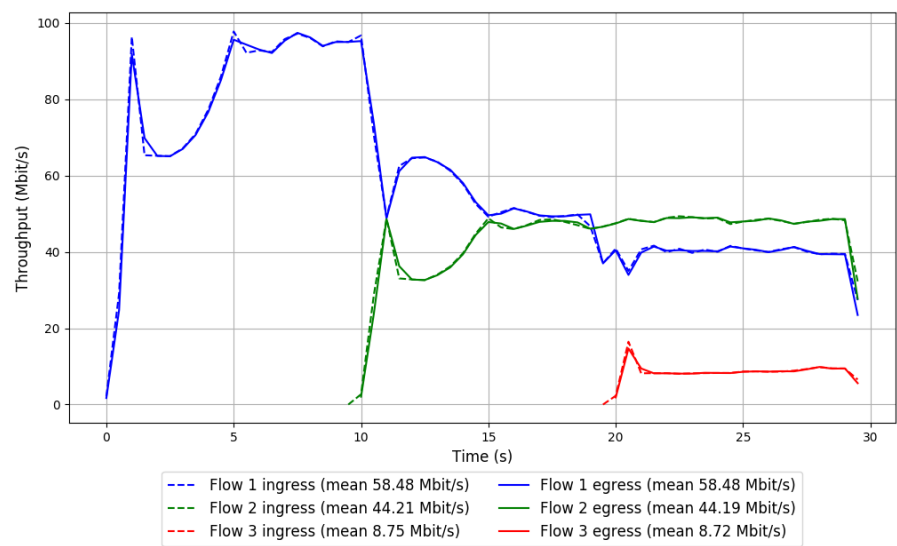
-- Flow 3:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 68.385 ms

Loss rate: 1.24%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Sat, 29 Jul 2017 08:55:11 +0000

End at: Sat, 29 Jul 2017 08:55:41 +0000

Local clock offset: 0.597 ms

Remote clock offset: -0.583 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.98 Mbit/s

95th percentile per-packet one-way delay: 72.139 ms

Loss rate: 4.64%

-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 70.908 ms

Loss rate: 4.45%

-- Flow 2:

Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 72.224 ms

Loss rate: 6.47%

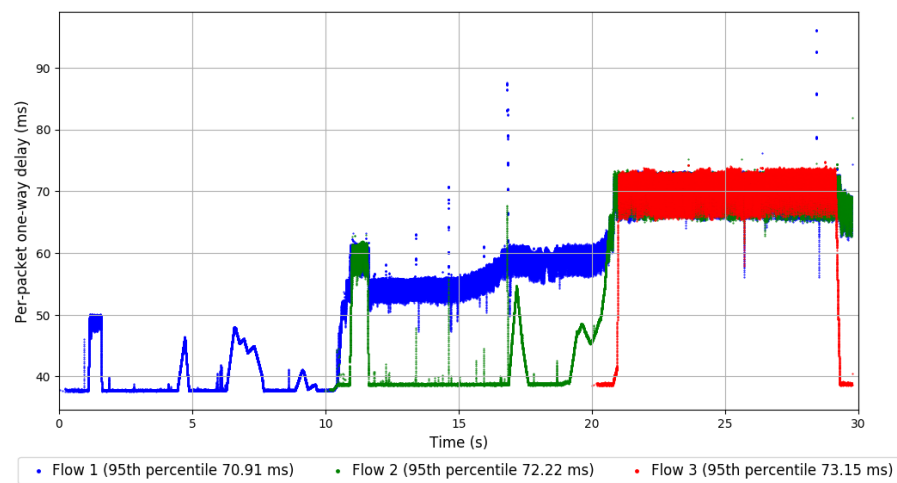
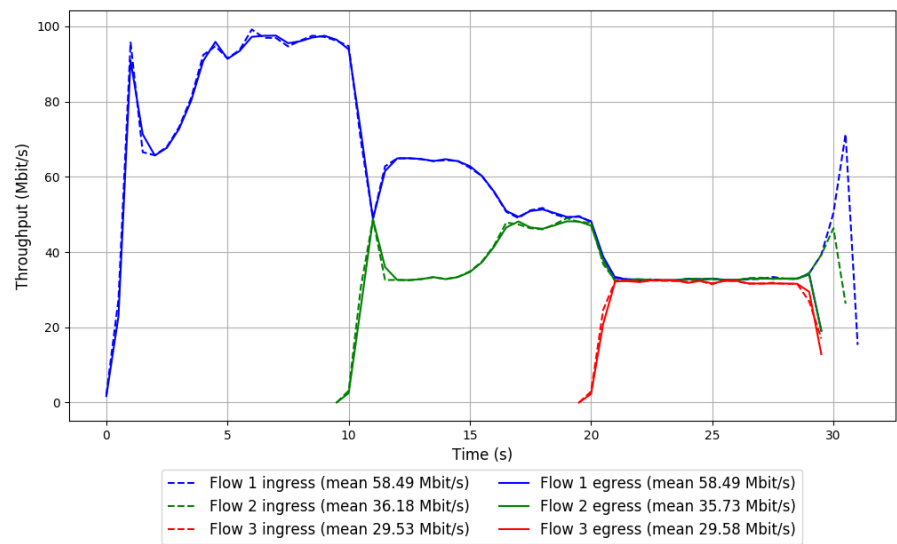
-- Flow 3:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 73.146 ms

Loss rate: 1.04%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Sat, 29 Jul 2017 09:16:11 +0000

End at: Sat, 29 Jul 2017 09:16:41 +0000

Local clock offset: 0.448 ms

Remote clock offset: -0.34 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 70.959 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 59.300 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 73.221 ms

Loss rate: 0.54%

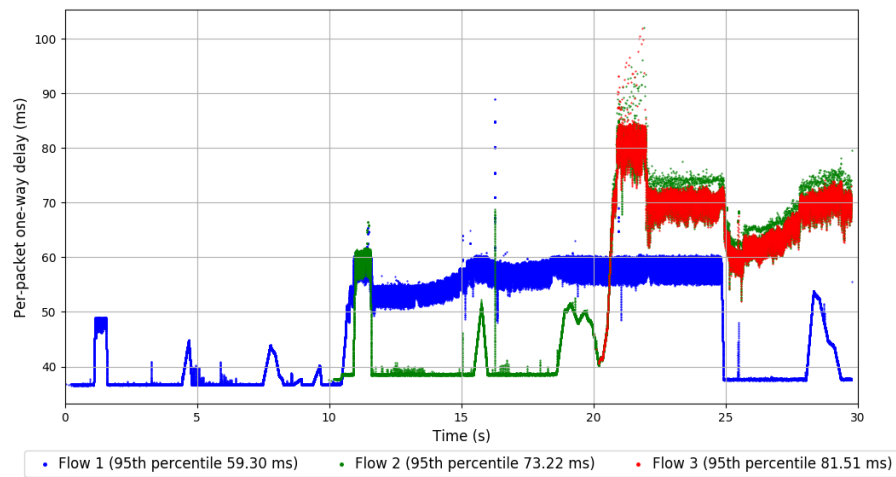
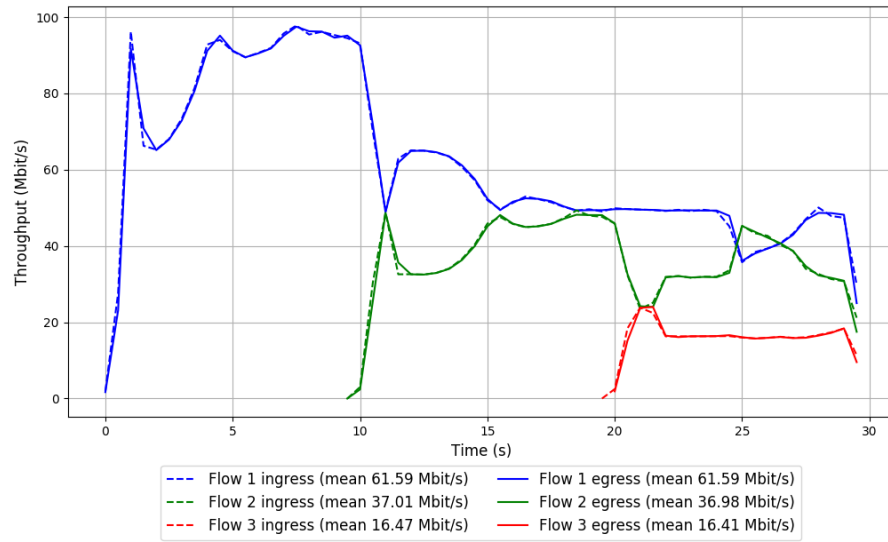
-- Flow 3:

Average throughput: 16.41 Mbit/s

95th percentile per-packet one-way delay: 81.514 ms

Loss rate: 1.32%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Sat, 29 Jul 2017 09:37:12 +0000

End at: Sat, 29 Jul 2017 09:37:42 +0000

Local clock offset: 0.481 ms

Remote clock offset: -2.205 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:04:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 81.481 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 58.10 Mbit/s

95th percentile per-packet one-way delay: 81.285 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 30.30 Mbit/s

95th percentile per-packet one-way delay: 82.635 ms

Loss rate: 0.54%

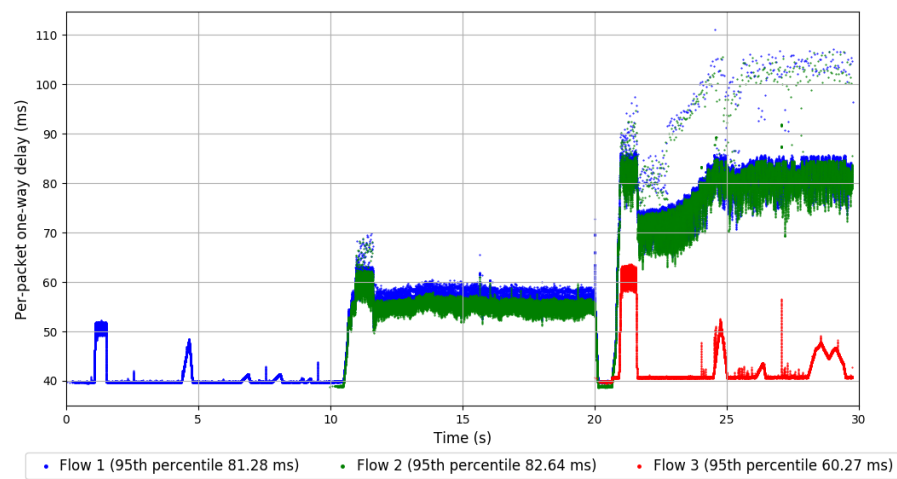
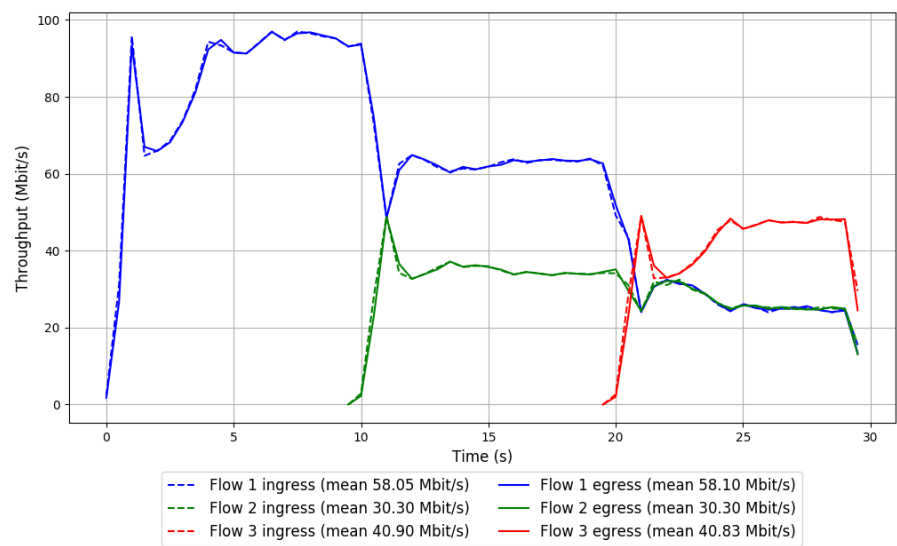
-- Flow 3:

Average throughput: 40.83 Mbit/s

95th percentile per-packet one-way delay: 60.272 ms

Loss rate: 1.10%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Sat, 29 Jul 2017 09:58:13 +0000

End at: Sat, 29 Jul 2017 09:58:43 +0000

Local clock offset: 0.479 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.00 Mbit/s

95th percentile per-packet one-way delay: 70.067 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 56.01 Mbit/s

95th percentile per-packet one-way delay: 70.135 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 44.57 Mbit/s

95th percentile per-packet one-way delay: 45.508 ms

Loss rate: 0.50%

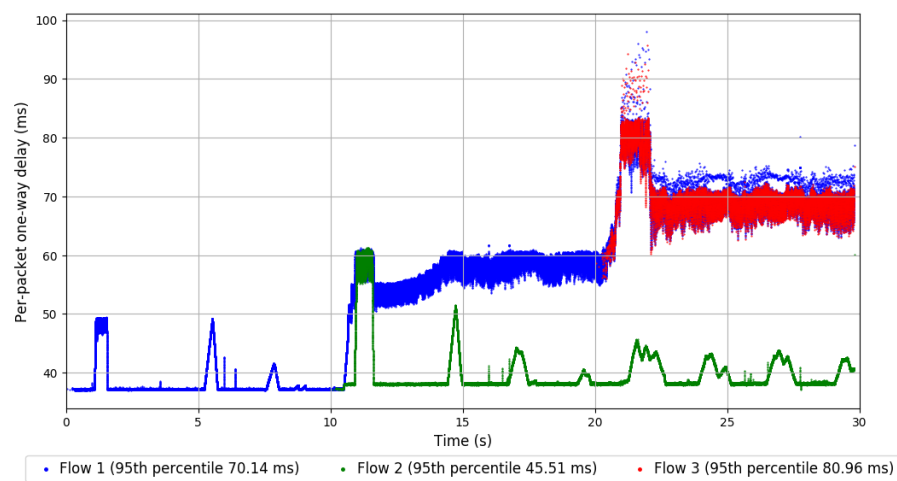
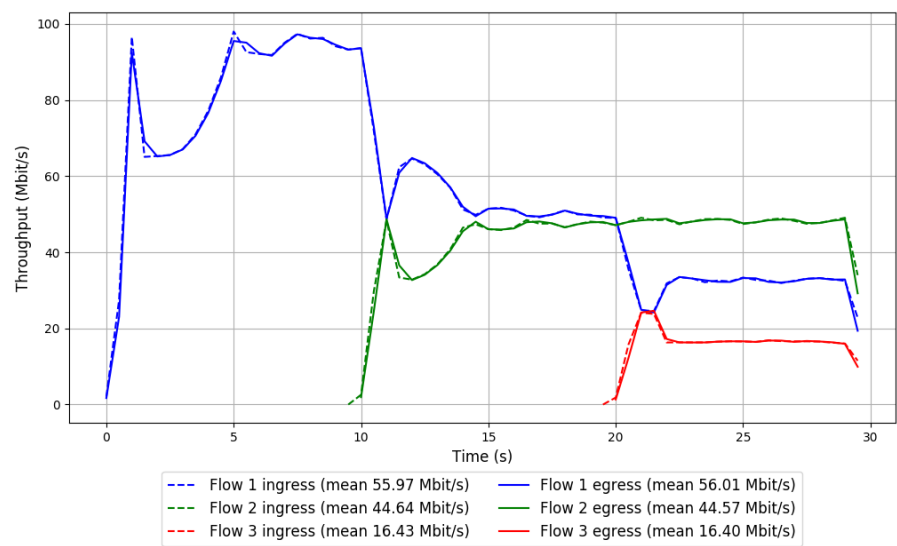
-- Flow 3:

Average throughput: 16.40 Mbit/s

95th percentile per-packet one-way delay: 80.963 ms

Loss rate: 1.17%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Sat, 29 Jul 2017 10:19:20 +0000

End at: Sat, 29 Jul 2017 10:19:50 +0000

Local clock offset: 0.495 ms

Remote clock offset: -2.387 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.58 Mbit/s

95th percentile per-packet one-way delay: 73.339 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 72.691 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 36.73 Mbit/s

95th percentile per-packet one-way delay: 73.166 ms

Loss rate: 0.56%

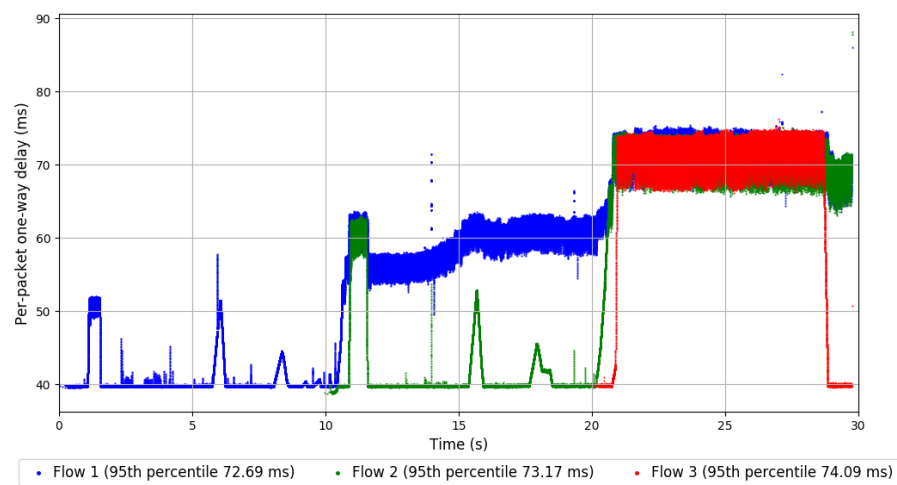
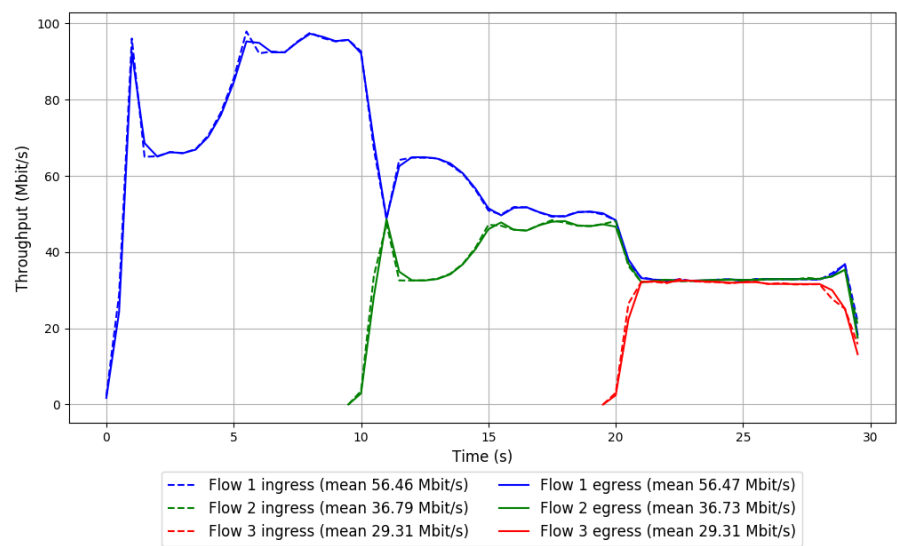
-- Flow 3:

Average throughput: 29.31 Mbit/s

95th percentile per-packet one-way delay: 74.094 ms

Loss rate: 0.81%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Sat, 29 Jul 2017 10:40:29 +0000

End at: Sat, 29 Jul 2017 10:40:59 +0000

Local clock offset: 0.416 ms

Remote clock offset: -2.383 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 72.482 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 60.34 Mbit/s

95th percentile per-packet one-way delay: 61.501 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 37.30 Mbit/s

95th percentile per-packet one-way delay: 75.067 ms

Loss rate: 0.49%

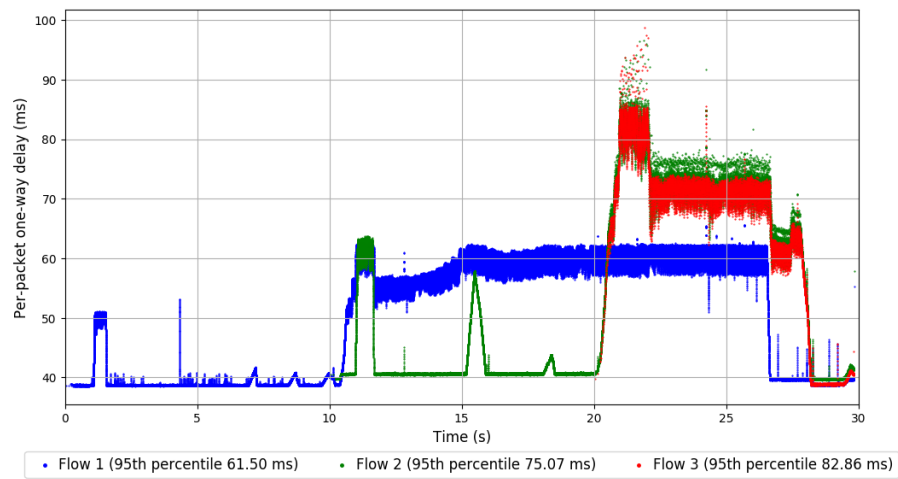
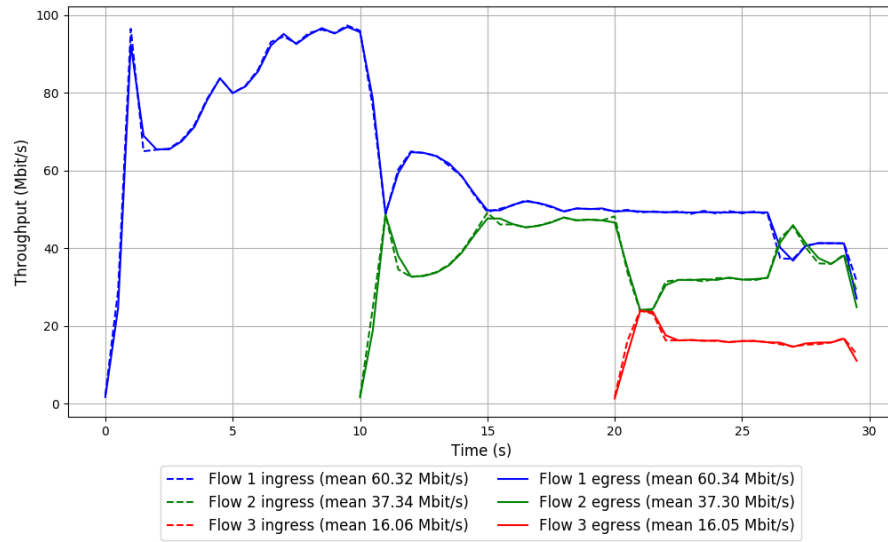
-- Flow 3:

Average throughput: 16.05 Mbit/s

95th percentile per-packet one-way delay: 82.860 ms

Loss rate: 0.97%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Sat, 29 Jul 2017 11:01:43 +0000

End at: Sat, 29 Jul 2017 11:02:13 +0000

Local clock offset: 0.566 ms

Remote clock offset: -0.297 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.69 Mbit/s

95th percentile per-packet one-way delay: 70.669 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 59.459 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 73.321 ms

Loss rate: 0.54%

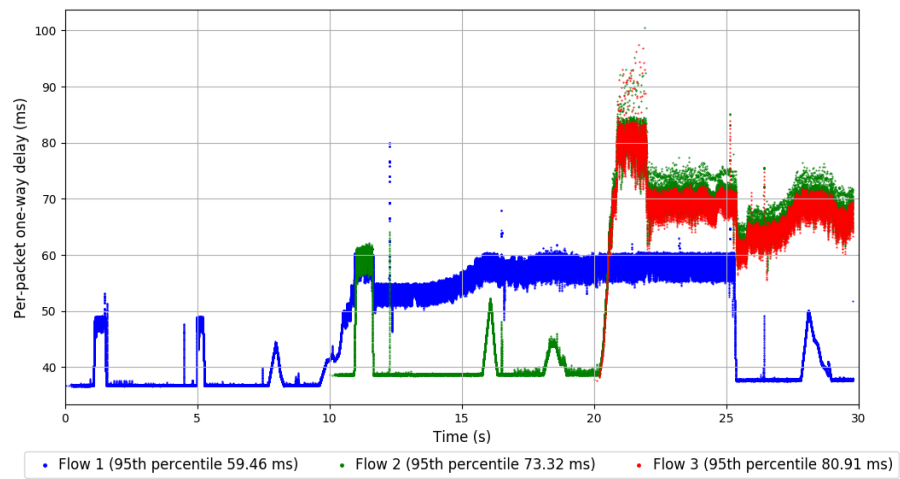
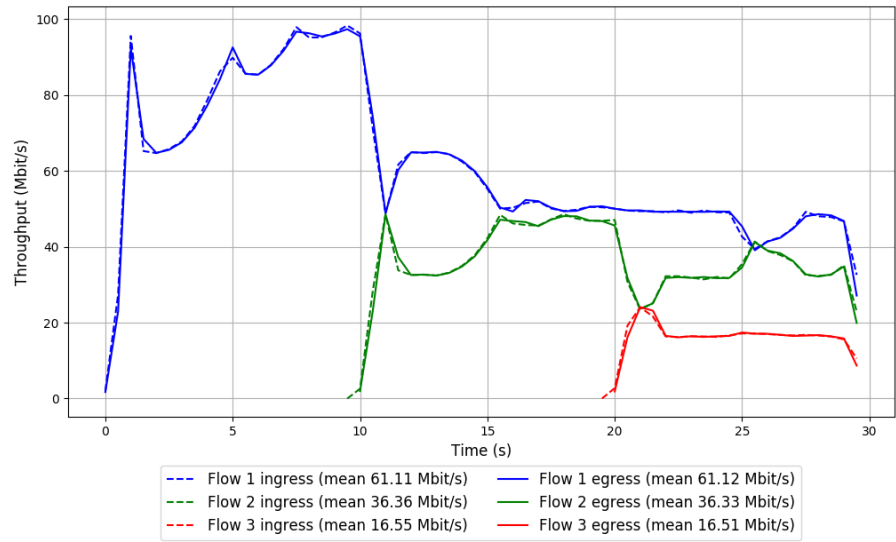
-- Flow 3:

Average throughput: 16.51 Mbit/s

95th percentile per-packet one-way delay: 80.909 ms

Loss rate: 1.17%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 07:56:25 +0000

End at: Sat, 29 Jul 2017 07:56:55 +0000

Local clock offset: 0.708 ms

Remote clock offset: -0.415 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 60.160 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 37.701 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.80 Mbit/s

95th percentile per-packet one-way delay: 60.112 ms

Loss rate: 0.46%

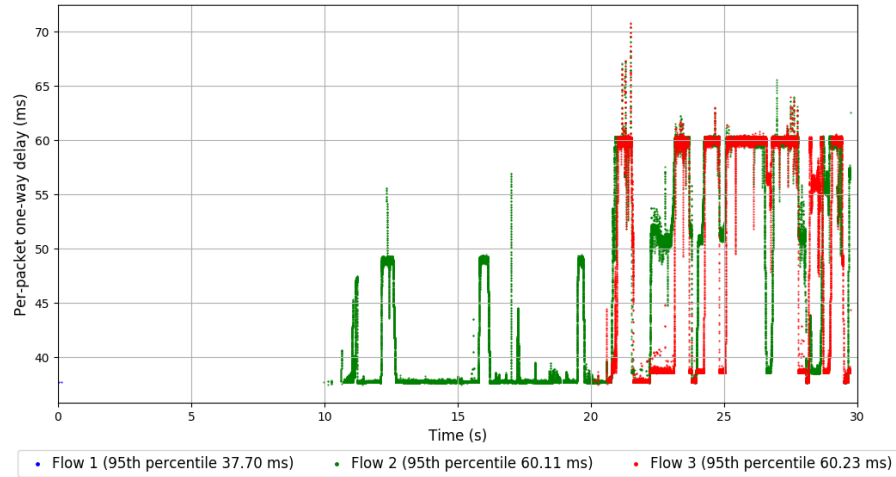
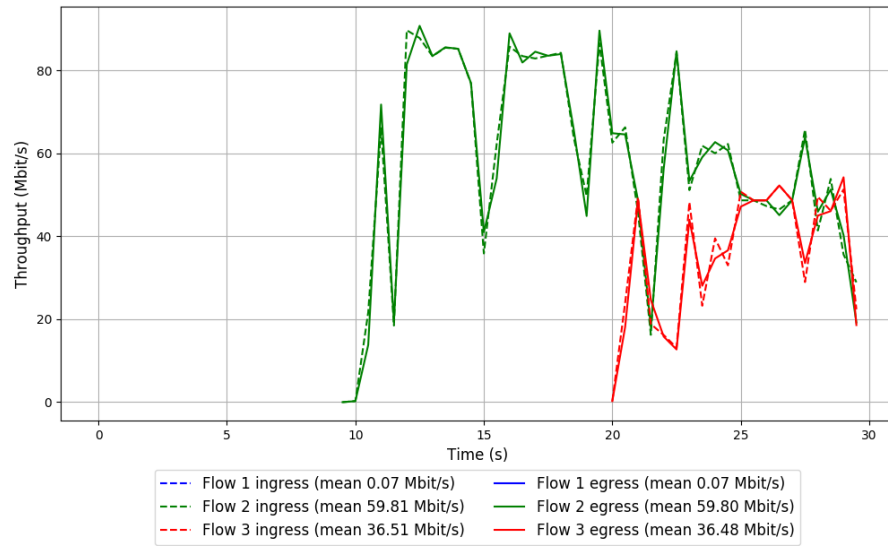
-- Flow 3:

Average throughput: 36.48 Mbit/s

95th percentile per-packet one-way delay: 60.232 ms

Loss rate: 0.94%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 08:17:26 +0000

End at: Sat, 29 Jul 2017 08:17:56 +0000

Local clock offset: 0.665 ms

Remote clock offset: -2.739 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.67 Mbit/s

95th percentile per-packet one-way delay: 71.930 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 72.060 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 71.447 ms

Loss rate: 0.23%

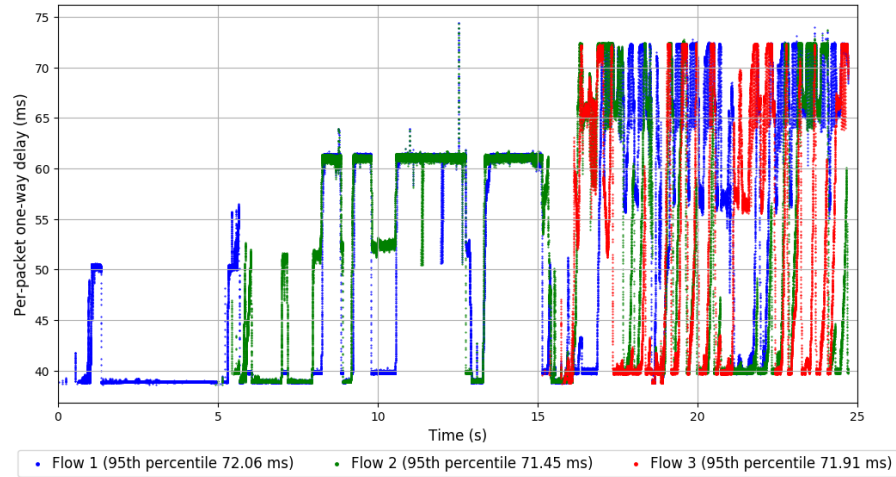
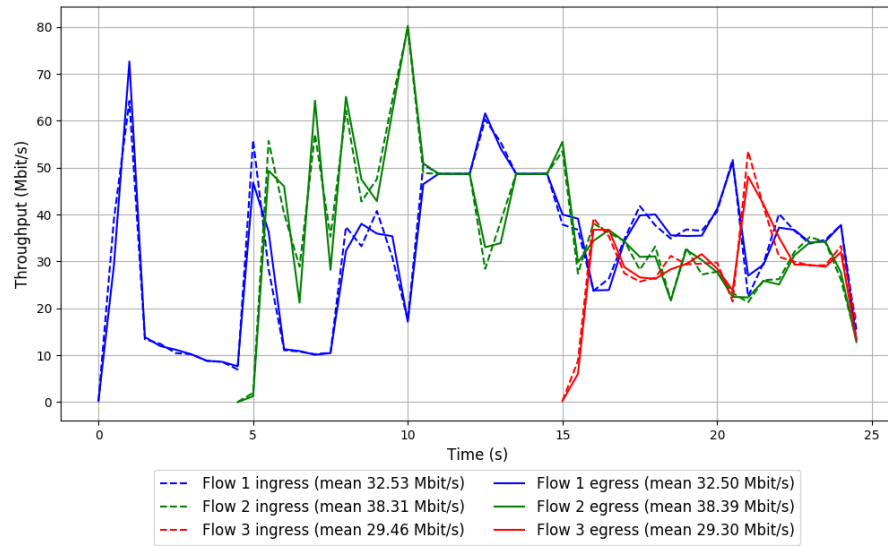
-- Flow 3:

Average throughput: 29.30 Mbit/s

95th percentile per-packet one-way delay: 71.910 ms

Loss rate: 1.46%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 08:38:28 +0000

End at: Sat, 29 Jul 2017 08:38:58 +0000

Local clock offset: 0.592 ms

Remote clock offset: -2.696 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 61.960 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 38.846 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.06 Mbit/s

95th percentile per-packet one-way delay: 61.245 ms

Loss rate: 0.58%

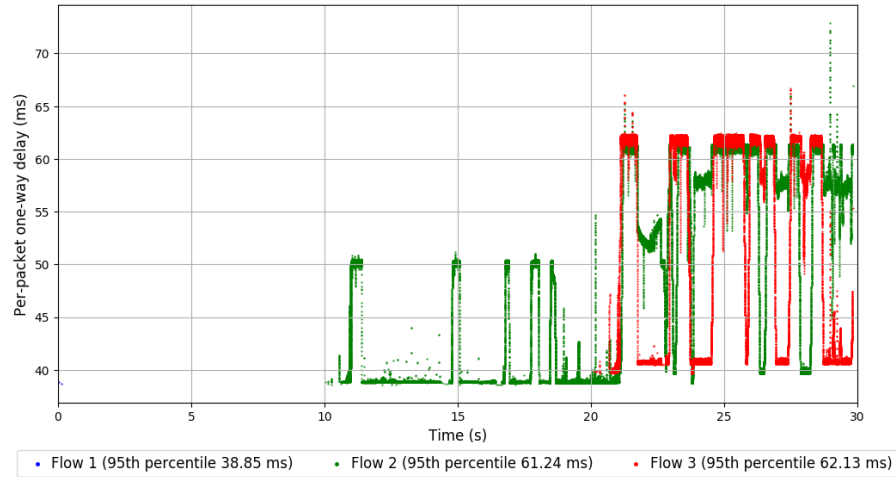
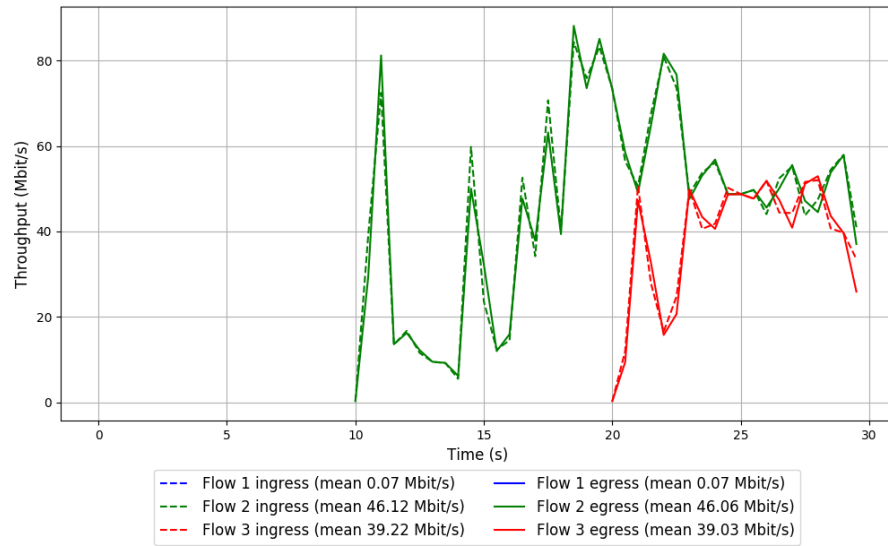
-- Flow 3:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 62.134 ms

Loss rate: 1.40%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 08:59:30 +0000

End at: Sat, 29 Jul 2017 09:00:00 +0000

Local clock offset: 0.578 ms

Remote clock offset: -0.453 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.64 Mbit/s

95th percentile per-packet one-way delay: 59.975 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 37.545 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 59.076 ms

Loss rate: 0.46%

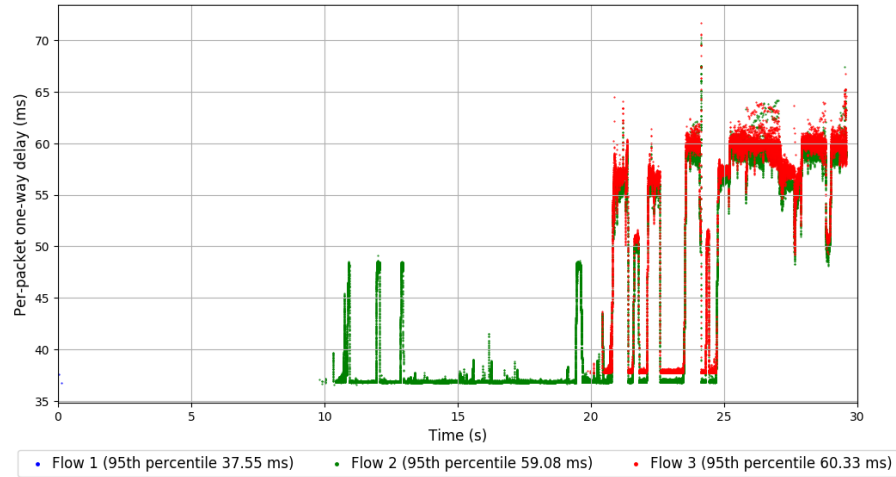
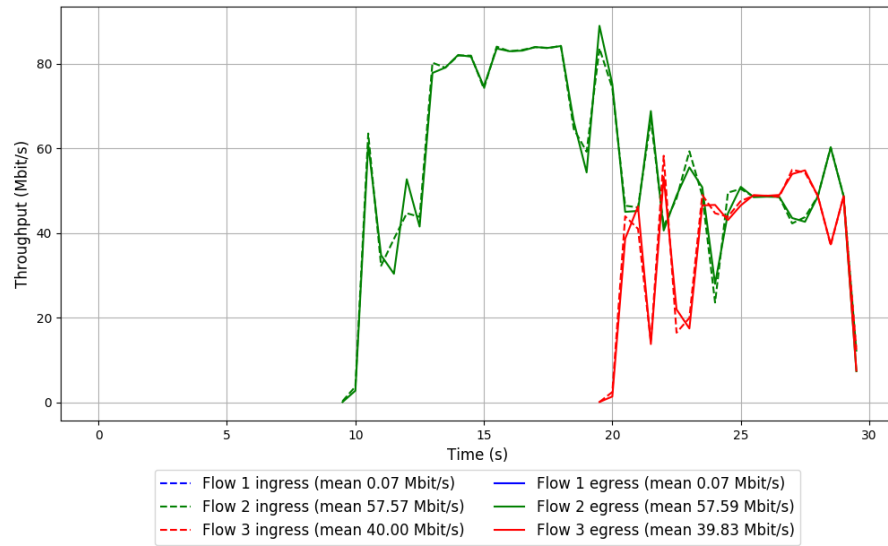
-- Flow 3:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 60.331 ms

Loss rate: 1.36%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 09:20:29 +0000

End at: Sat, 29 Jul 2017 09:20:59 +0000

Local clock offset: 0.441 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 60.046 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 37.664 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 59.883 ms

Loss rate: 0.42%

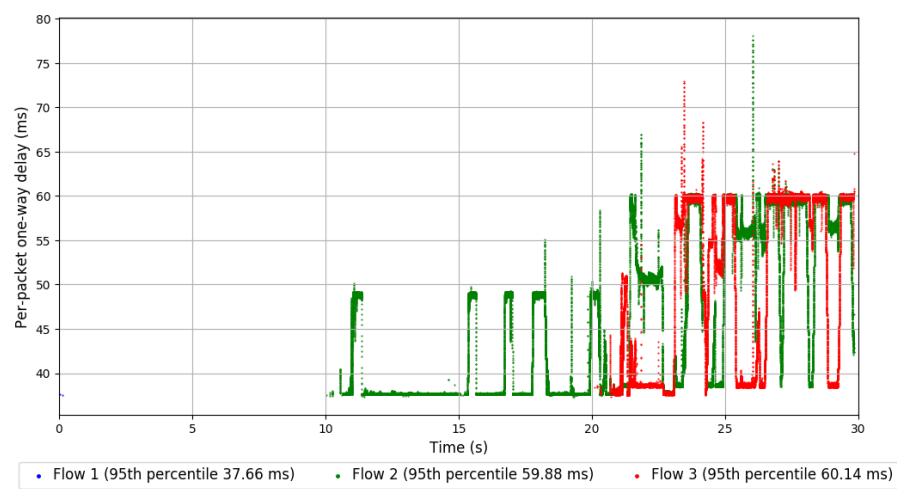
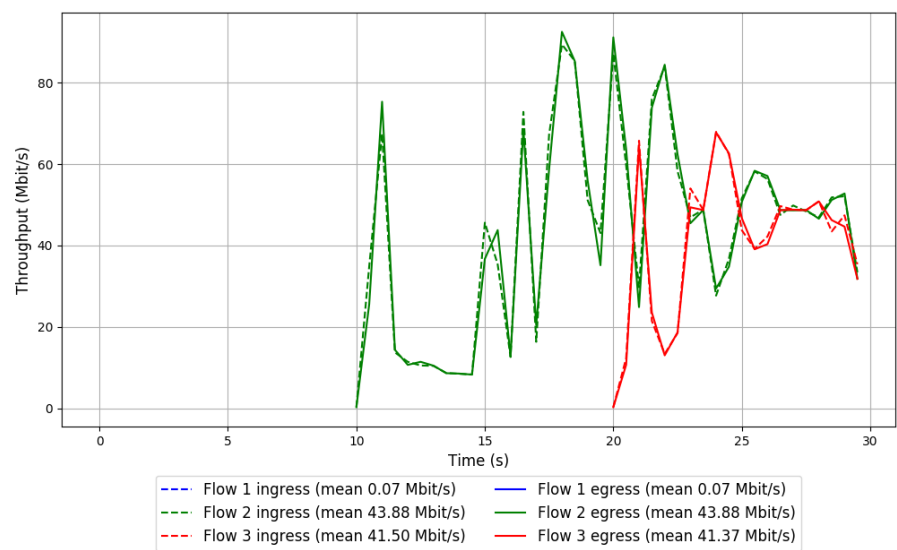
-- Flow 3:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 60.142 ms

Loss rate: 1.16%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 09:41:30 +0000

End at: Sat, 29 Jul 2017 09:42:00 +0000

Local clock offset: 0.497 ms

Remote clock offset: -2.198 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.71 Mbit/s

95th percentile per-packet one-way delay: 61.177 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 39.798 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 61.048 ms

Loss rate: 0.59%

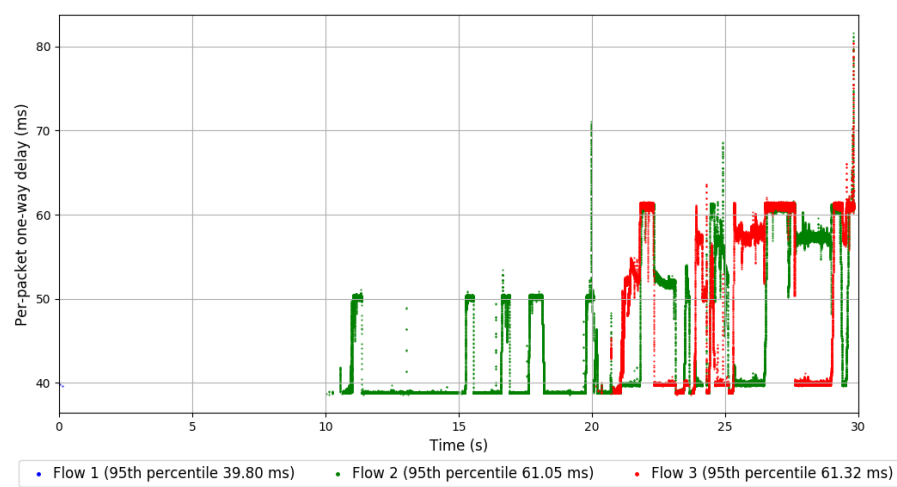
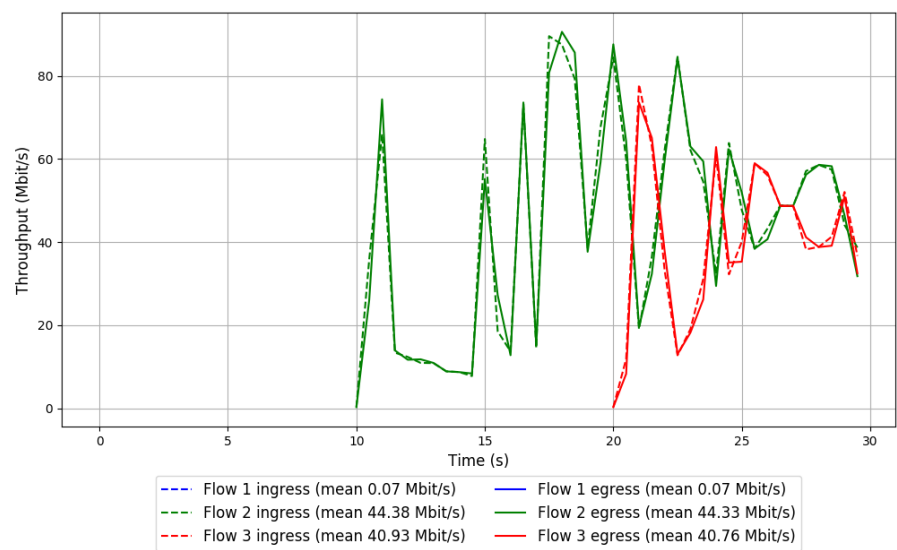
-- Flow 3:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 61.320 ms

Loss rate: 1.31%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 10:02:32 +0000

End at: Sat, 29 Jul 2017 10:03:02 +0000

Local clock offset: 0.372 ms

Remote clock offset: -0.17 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.40 Mbit/s

95th percentile per-packet one-way delay: 59.803 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 36.628 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 59.876 ms

Loss rate: 0.62%

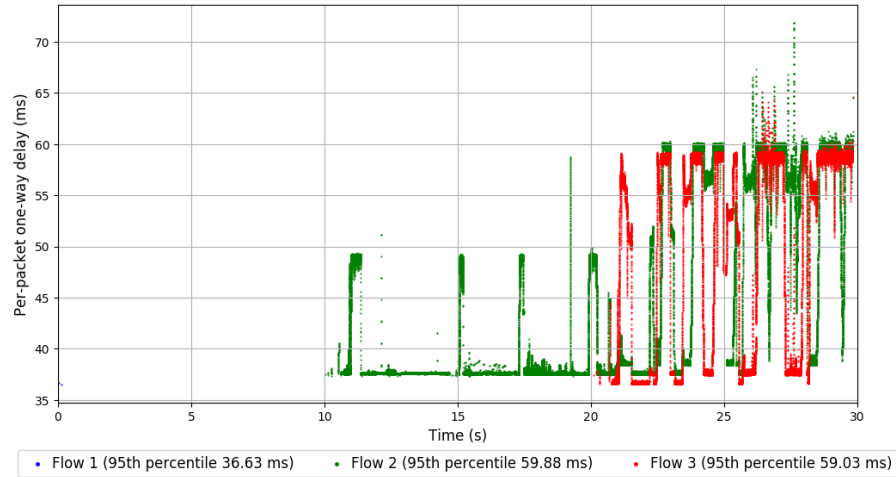
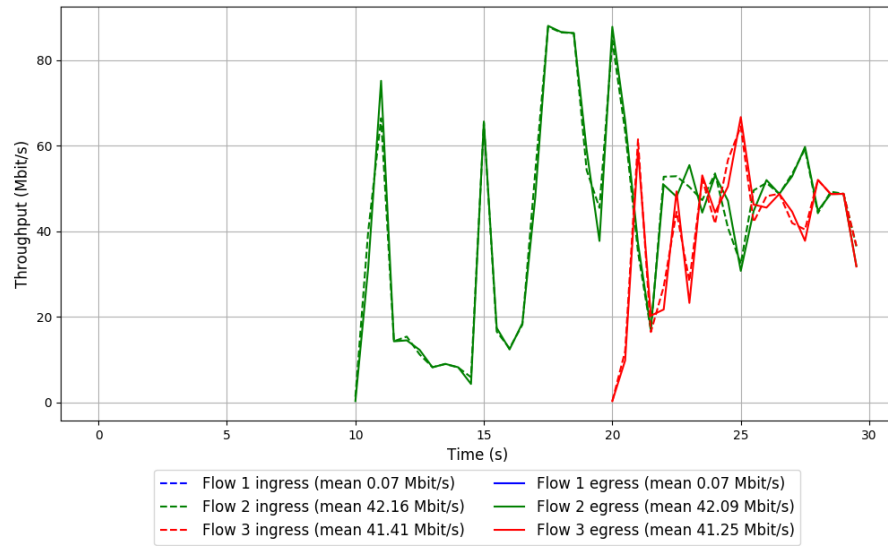
-- Flow 3:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 59.028 ms

Loss rate: 1.30%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 10:23:45 +0000

End at: Sat, 29 Jul 2017 10:24:15 +0000

Local clock offset: 0.413 ms

Remote clock offset: -2.277 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 61.226 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 39.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.21 Mbit/s

95th percentile per-packet one-way delay: 61.184 ms

Loss rate: 0.74%

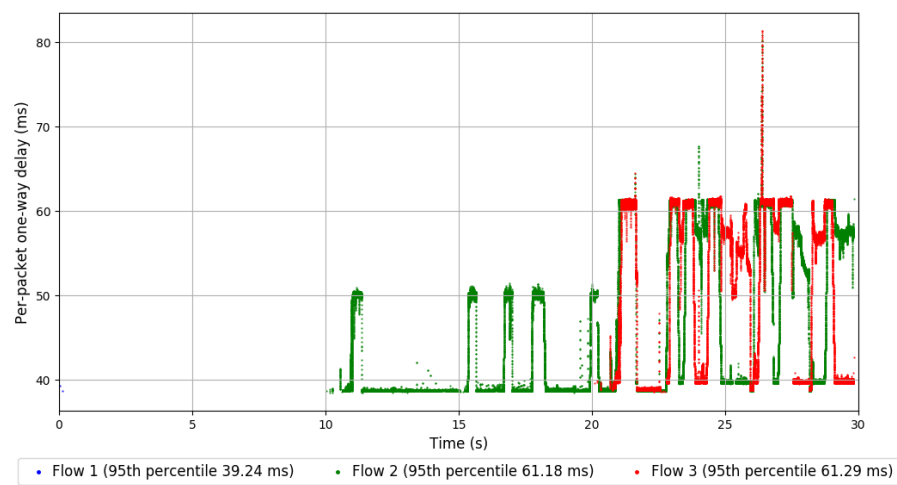
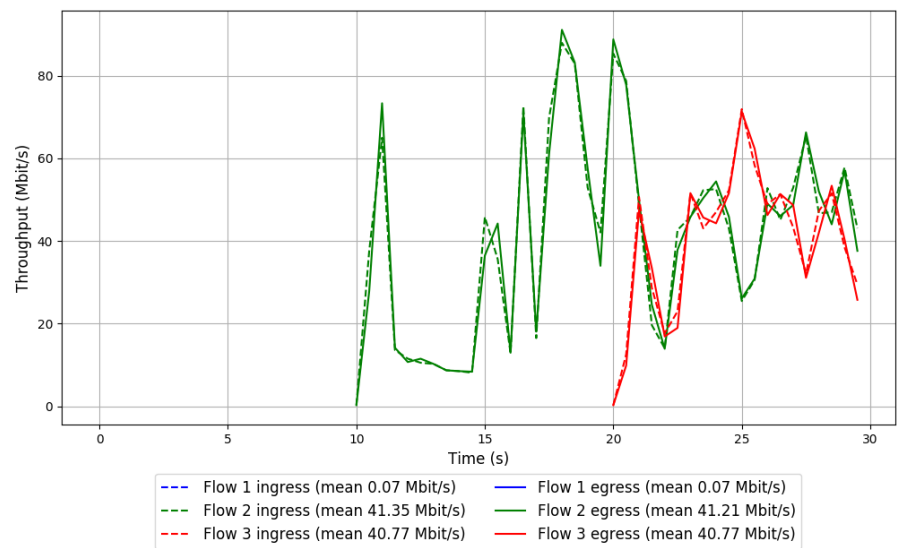
-- Flow 3:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 61.289 ms

Loss rate: 0.84%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 10:44:47 +0000

End at: Sat, 29 Jul 2017 10:45:17 +0000

Local clock offset: 0.443 ms

Remote clock offset: -2.305 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 61.836 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 38.746 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 61.909 ms

Loss rate: 0.47%

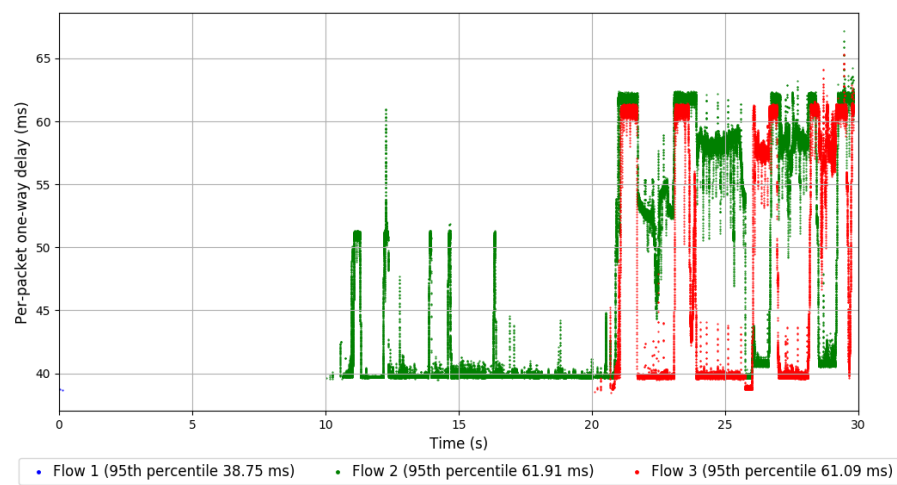
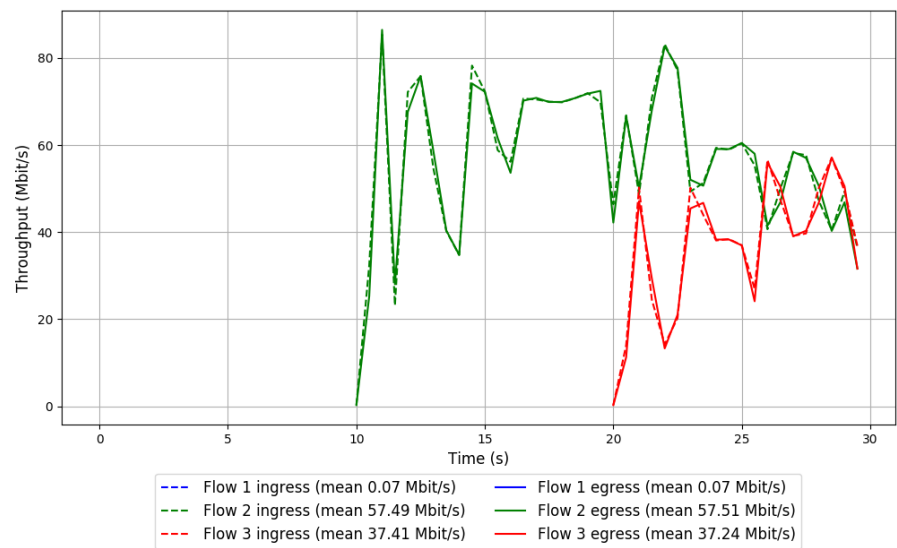
-- Flow 3:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 61.090 ms

Loss rate: 1.44%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: Sat, 29 Jul 2017 11:06:02 +0000

End at: Sat, 29 Jul 2017 11:06:32 +0000

Local clock offset: 0.46 ms

Remote clock offset: -2.301 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:05:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.01 Mbit/s

95th percentile per-packet one-way delay: 60.963 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 39.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.77 Mbit/s

95th percentile per-packet one-way delay: 60.895 ms

Loss rate: 0.94%

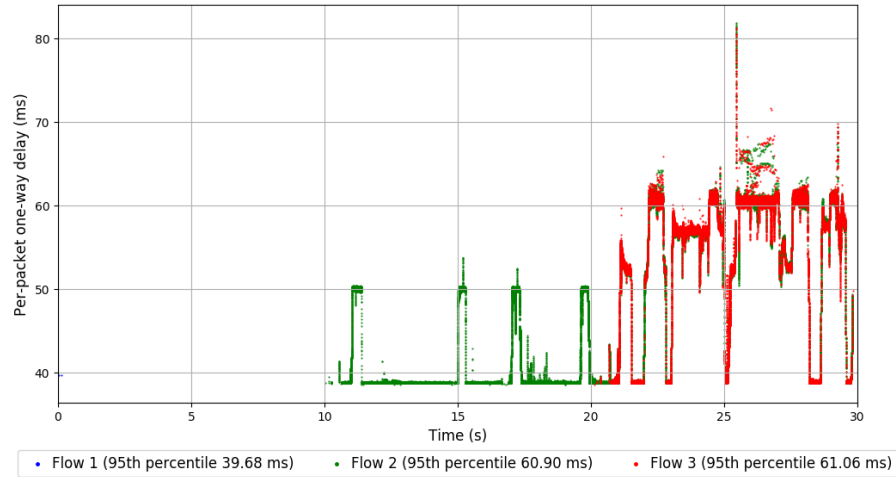
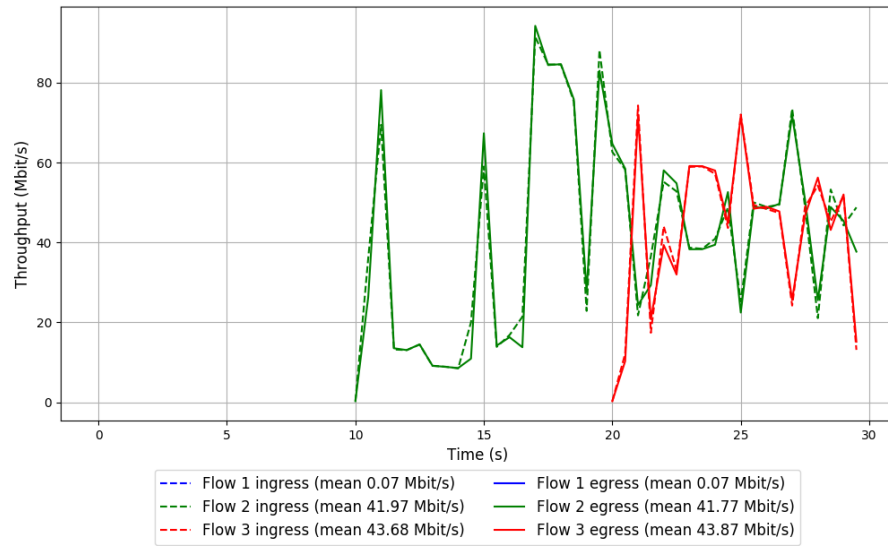
-- Flow 3:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 61.061 ms

Loss rate: 0.43%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Sat, 29 Jul 2017 07:47:57 +0000

End at: Sat, 29 Jul 2017 07:48:27 +0000

Local clock offset: 0.698 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 38.666 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 26.92 Mbit/s

95th percentile per-packet one-way delay: 38.638 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 26.92 Mbit/s

95th percentile per-packet one-way delay: 38.664 ms

Loss rate: 0.44%

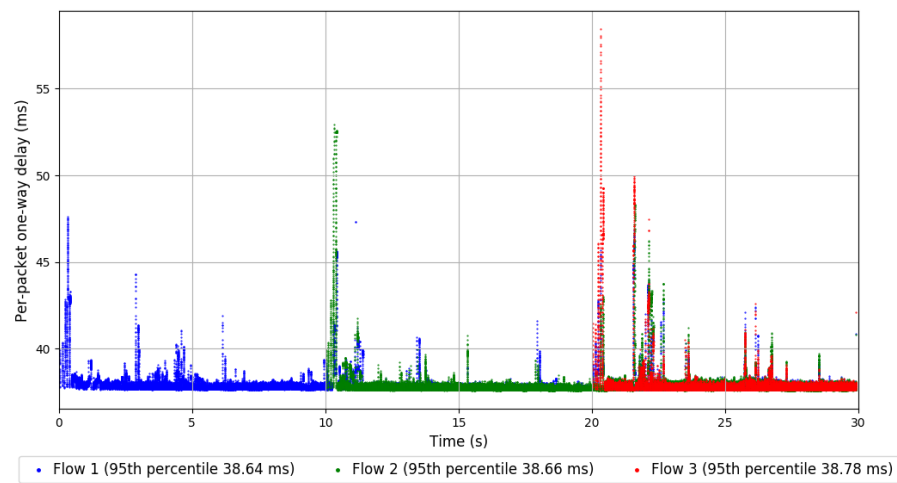
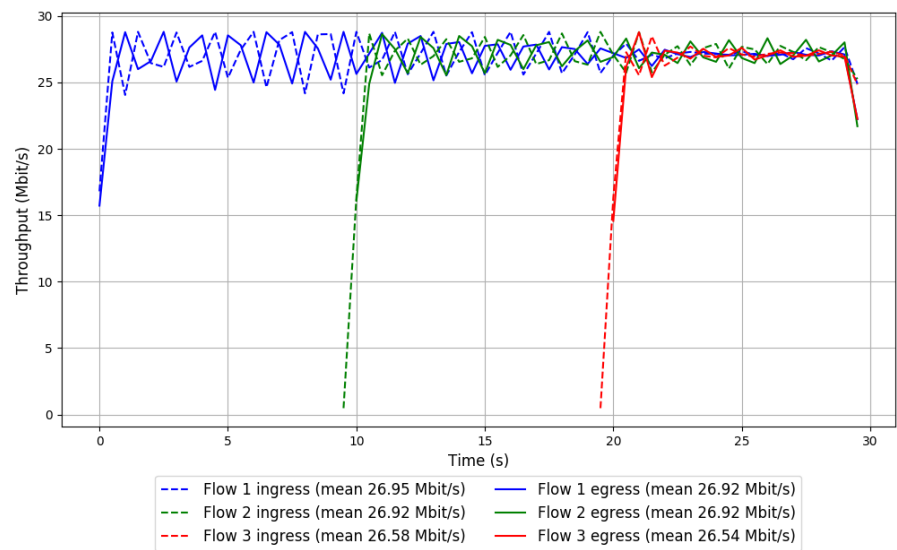
-- Flow 3:

Average throughput: 26.54 Mbit/s

95th percentile per-packet one-way delay: 38.784 ms

Loss rate: 0.98%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Sat, 29 Jul 2017 08:08:58 +0000

End at: Sat, 29 Jul 2017 08:09:28 +0000

Local clock offset: 0.572 ms

Remote clock offset: -0.034 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 37.693 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 26.89 Mbit/s

95th percentile per-packet one-way delay: 37.875 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 36.791 ms

Loss rate: 0.44%

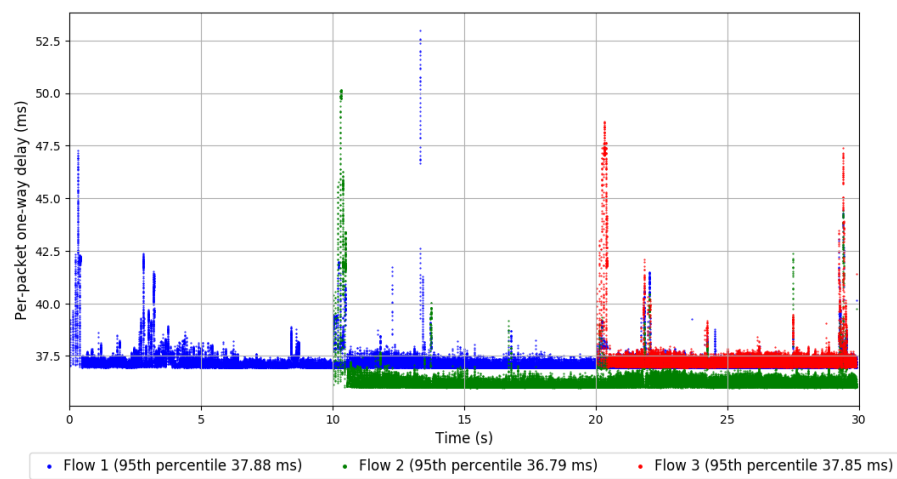
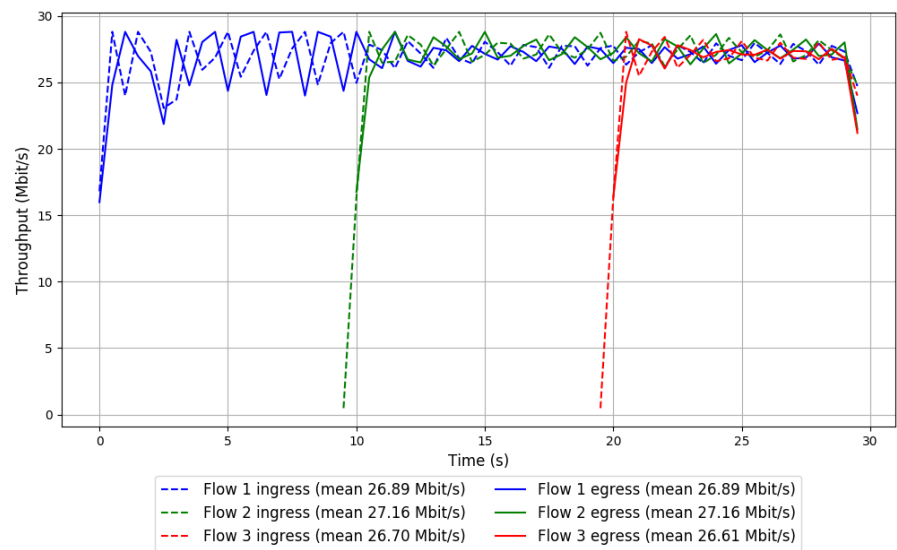
-- Flow 3:

Average throughput: 26.61 Mbit/s

95th percentile per-packet one-way delay: 37.847 ms

Loss rate: 0.90%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Sat, 29 Jul 2017 08:30:02 +0000

End at: Sat, 29 Jul 2017 08:30:32 +0000

Local clock offset: 0.623 ms

Remote clock offset: -0.612 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.88 Mbit/s

95th percentile per-packet one-way delay: 38.880 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 26.99 Mbit/s

95th percentile per-packet one-way delay: 38.961 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 27.05 Mbit/s

95th percentile per-packet one-way delay: 38.375 ms

Loss rate: 0.44%

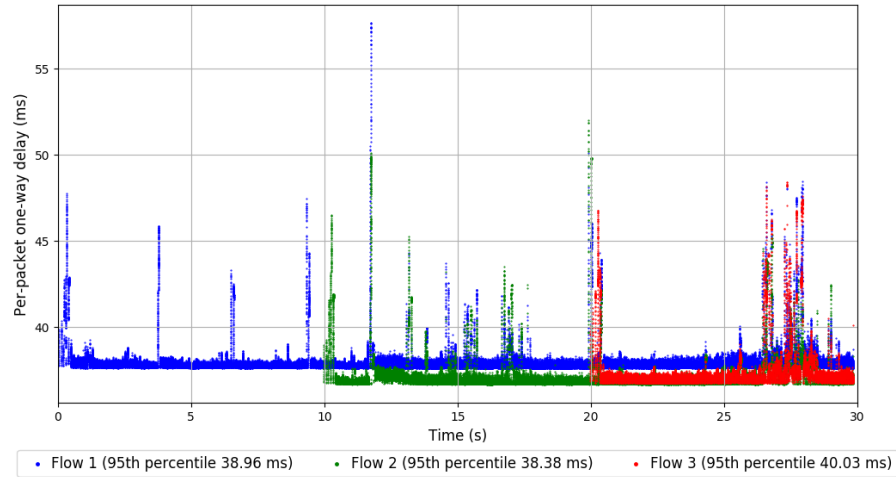
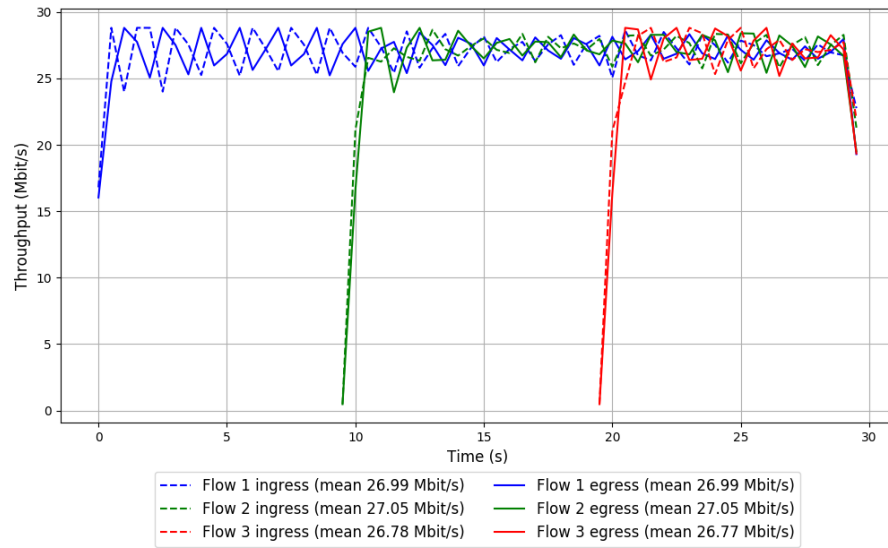
-- Flow 3:

Average throughput: 26.77 Mbit/s

95th percentile per-packet one-way delay: 40.028 ms

Loss rate: 0.90%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Sat, 29 Jul 2017 08:51:01 +0000

End at: Sat, 29 Jul 2017 08:51:31 +0000

Local clock offset: 0.505 ms

Remote clock offset: -0.542 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.89 Mbit/s

95th percentile per-packet one-way delay: 38.336 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 26.90 Mbit/s

95th percentile per-packet one-way delay: 38.450 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 38.025 ms

Loss rate: 0.44%

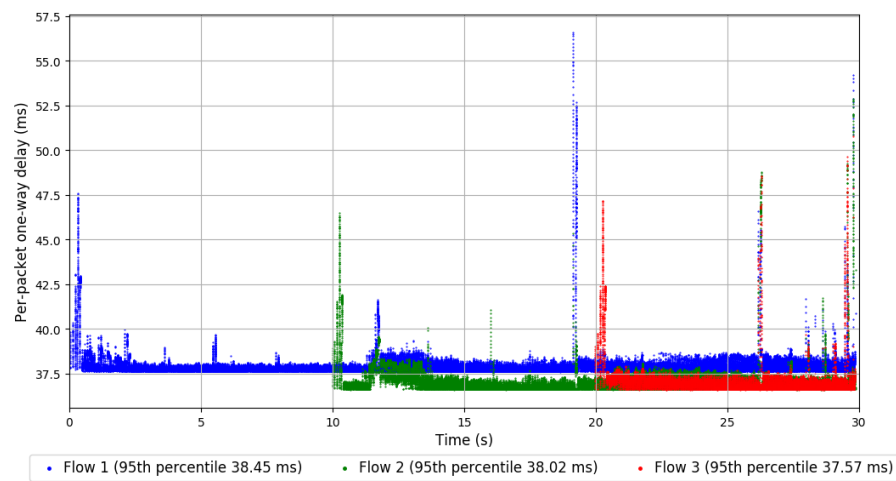
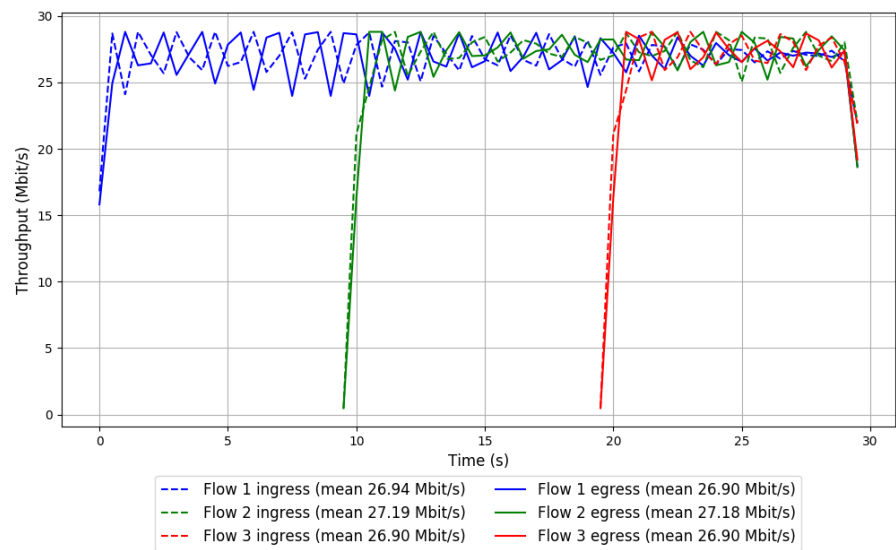
-- Flow 3:

Average throughput: 26.90 Mbit/s

95th percentile per-packet one-way delay: 37.572 ms

Loss rate: 0.90%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Sat, 29 Jul 2017 09:12:01 +0000

End at: Sat, 29 Jul 2017 09:12:31 +0000

Local clock offset: 0.457 ms

Remote clock offset: -0.35 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.73 Mbit/s

95th percentile per-packet one-way delay: 38.357 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 38.450 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 26.87 Mbit/s

95th percentile per-packet one-way delay: 38.268 ms

Loss rate: 0.44%

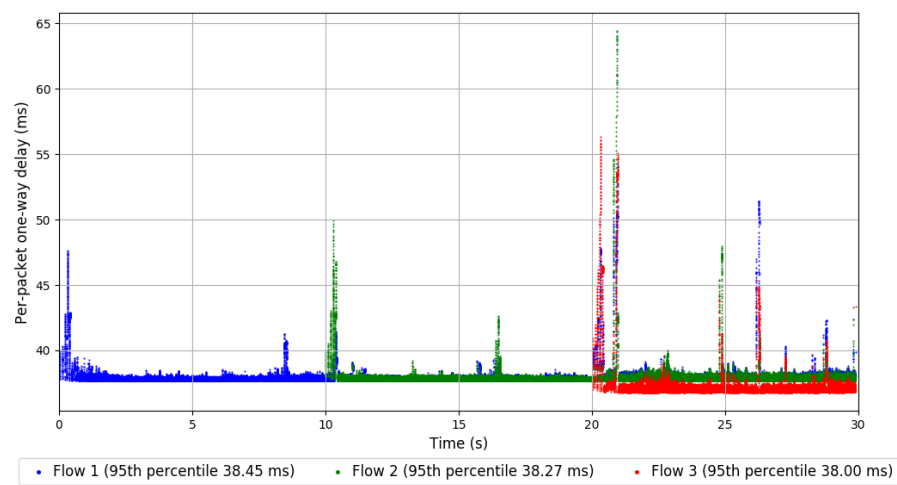
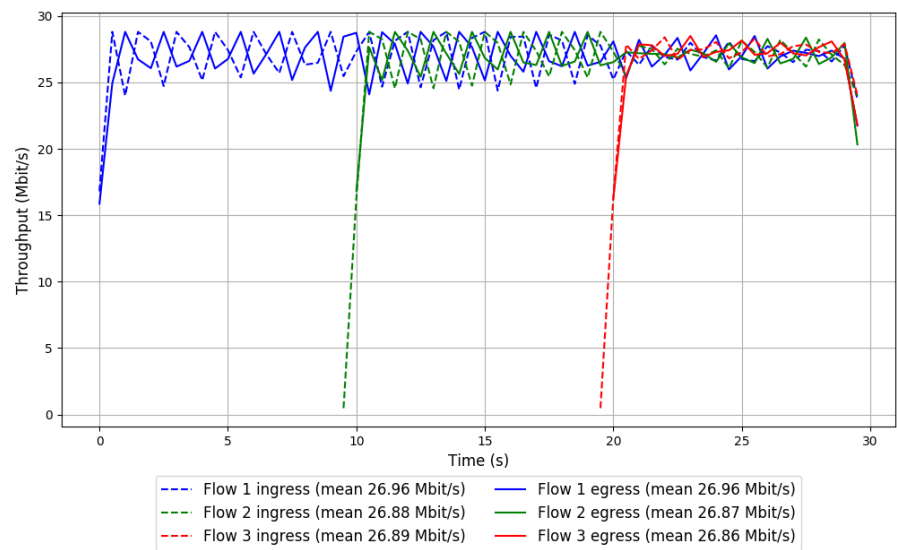
-- Flow 3:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 37.997 ms

Loss rate: 0.89%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: Sat, 29 Jul 2017 09:33:01 +0000

End at: Sat, 29 Jul 2017 09:33:31 +0000

Local clock offset: 0.494 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.79 Mbit/s

95th percentile per-packet one-way delay: 38.437 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 38.559 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 38.280 ms

Loss rate: 0.44%

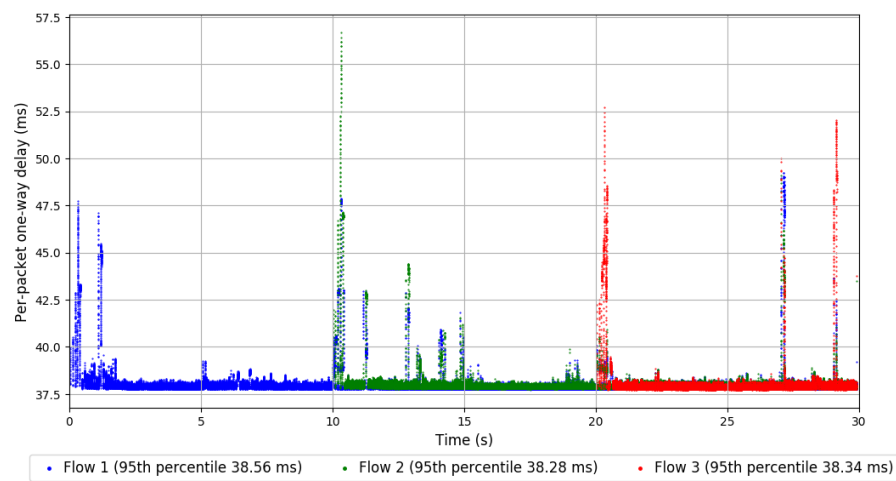
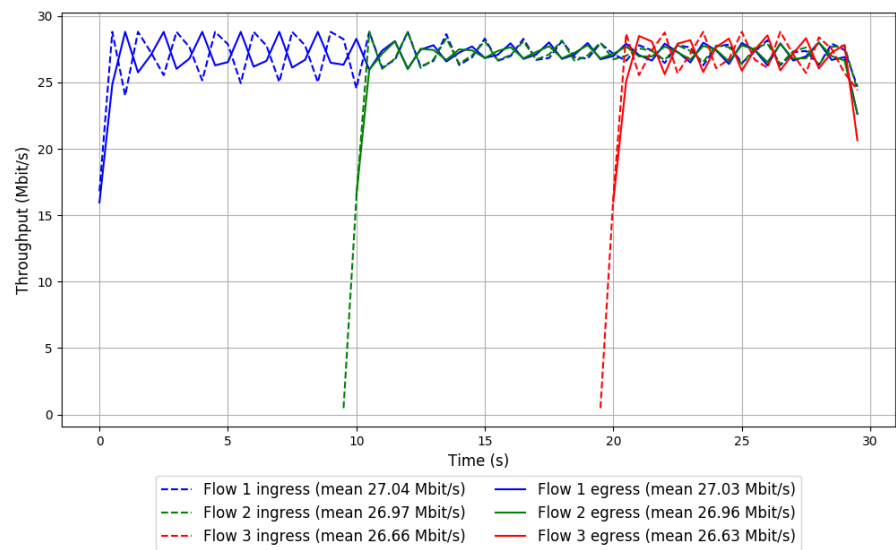
-- Flow 3:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 38.343 ms

Loss rate: 0.90%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Sat, 29 Jul 2017 09:54:03 +0000

End at: Sat, 29 Jul 2017 09:54:33 +0000

Local clock offset: 0.495 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 38.692 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 38.905 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 26.88 Mbit/s

95th percentile per-packet one-way delay: 38.594 ms

Loss rate: 0.45%

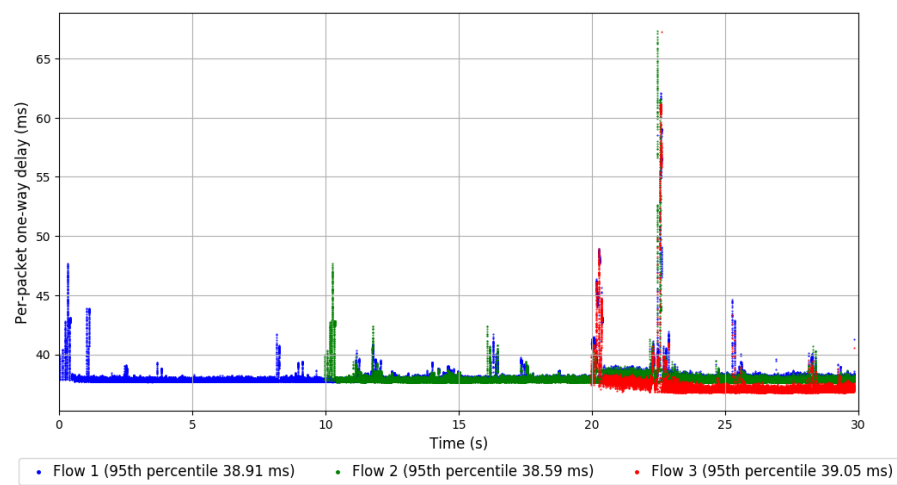
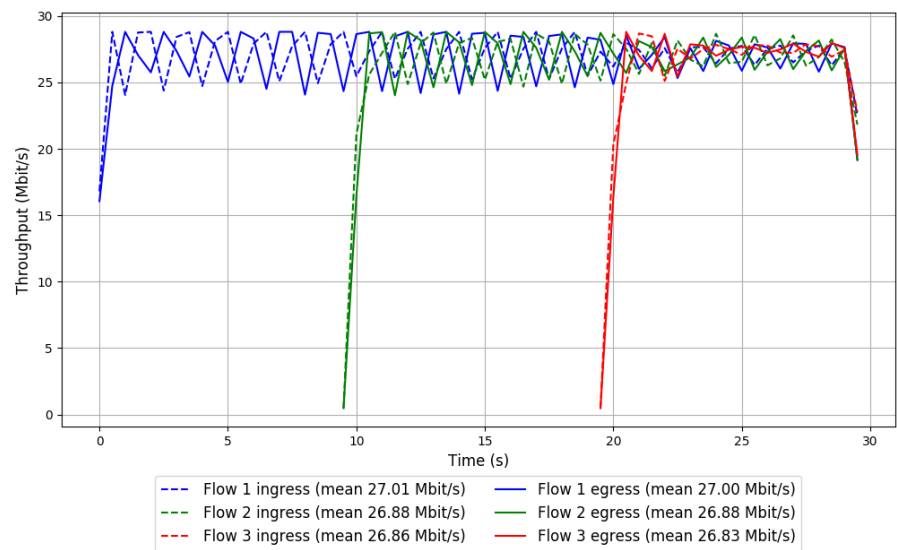
-- Flow 3:

Average throughput: 26.83 Mbit/s

95th percentile per-packet one-way delay: 39.049 ms

Loss rate: 0.95%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Sat, 29 Jul 2017 10:15:07 +0000

End at: Sat, 29 Jul 2017 10:15:37 +0000

Local clock offset: 0.399 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 37.605 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 27.23 Mbit/s

95th percentile per-packet one-way delay: 36.979 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 37.343 ms

Loss rate: 0.44%

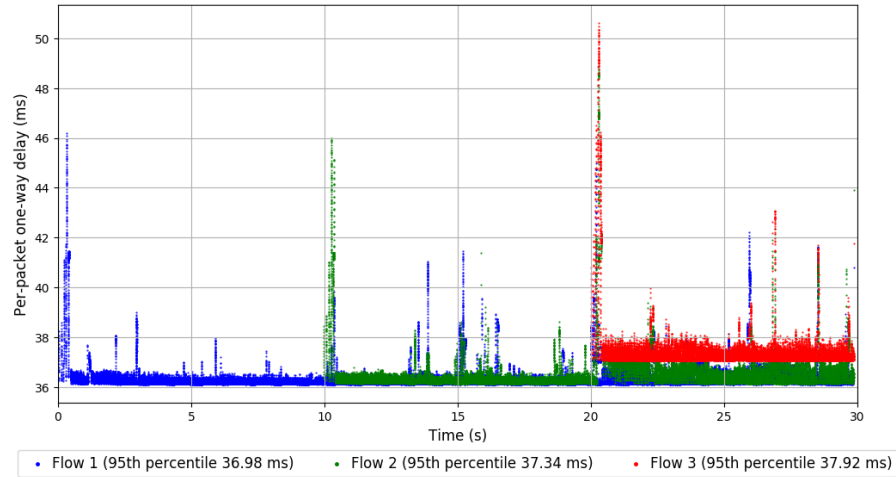
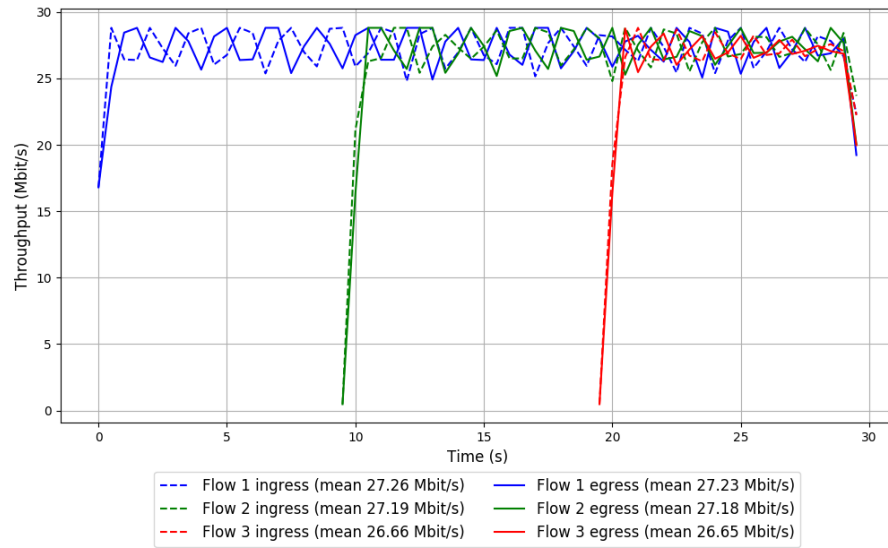
-- Flow 3:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 37.918 ms

Loss rate: 0.90%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Sat, 29 Jul 2017 10:36:20 +0000

End at: Sat, 29 Jul 2017 10:36:50 +0000

Local clock offset: 0.476 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.02 Mbit/s

95th percentile per-packet one-way delay: 37.936 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 27.19 Mbit/s

95th percentile per-packet one-way delay: 37.635 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 27.11 Mbit/s

95th percentile per-packet one-way delay: 38.098 ms

Loss rate: 0.44%

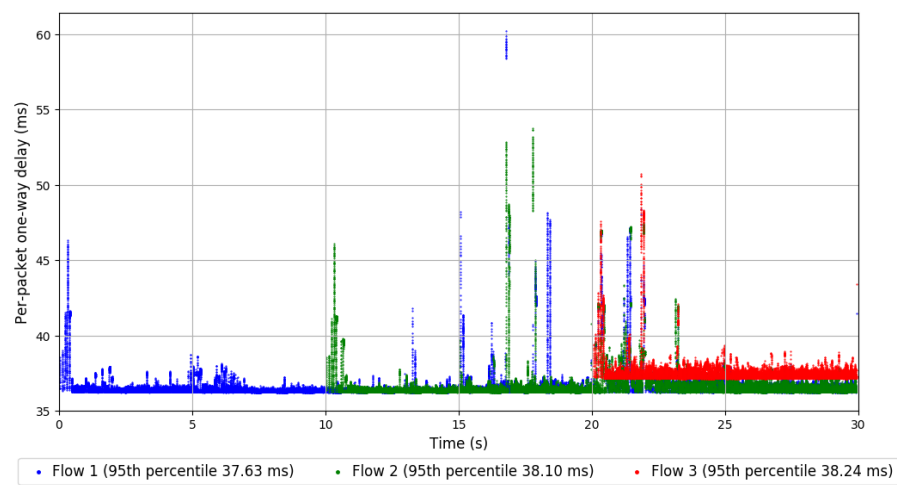
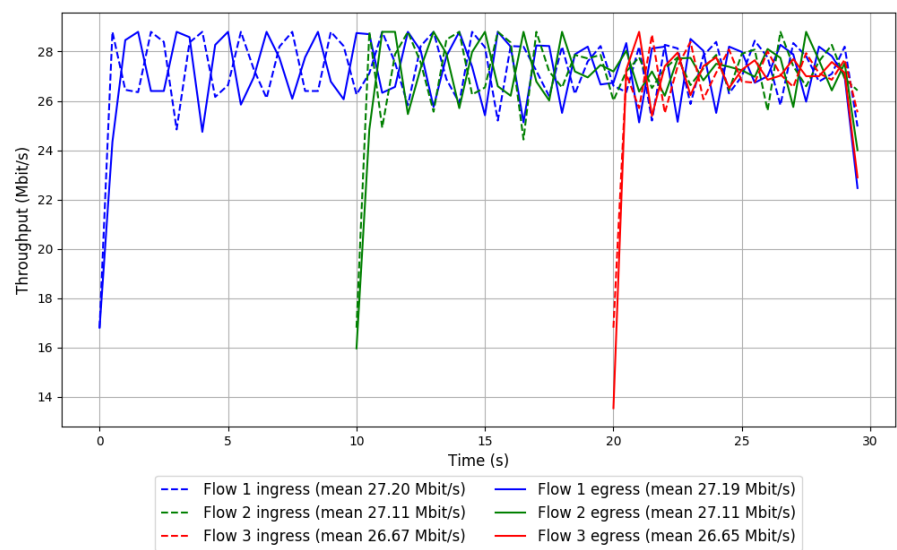
-- Flow 3:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 38.236 ms

Loss rate: 0.90%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: Sat, 29 Jul 2017 10:57:30 +0000

End at: Sat, 29 Jul 2017 10:58:00 +0000

Local clock offset: 0.445 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 37.717 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 27.25 Mbit/s

95th percentile per-packet one-way delay: 37.277 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 37.396 ms

Loss rate: 0.44%

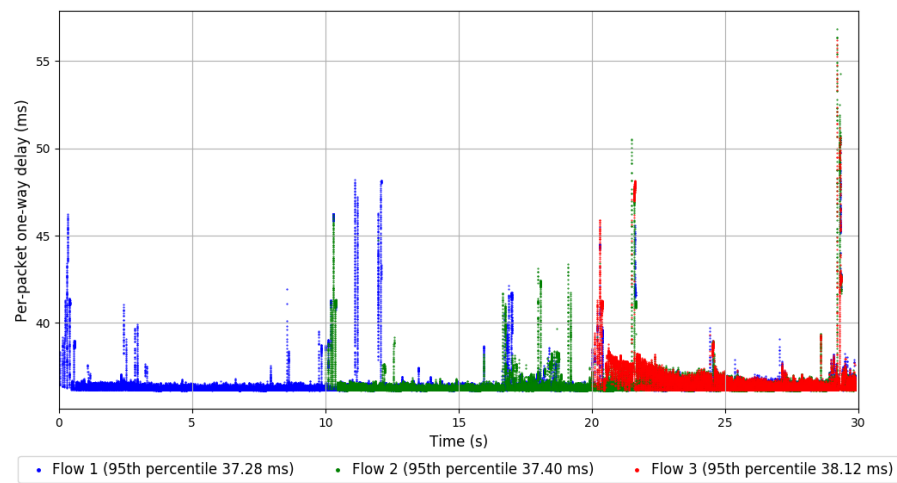
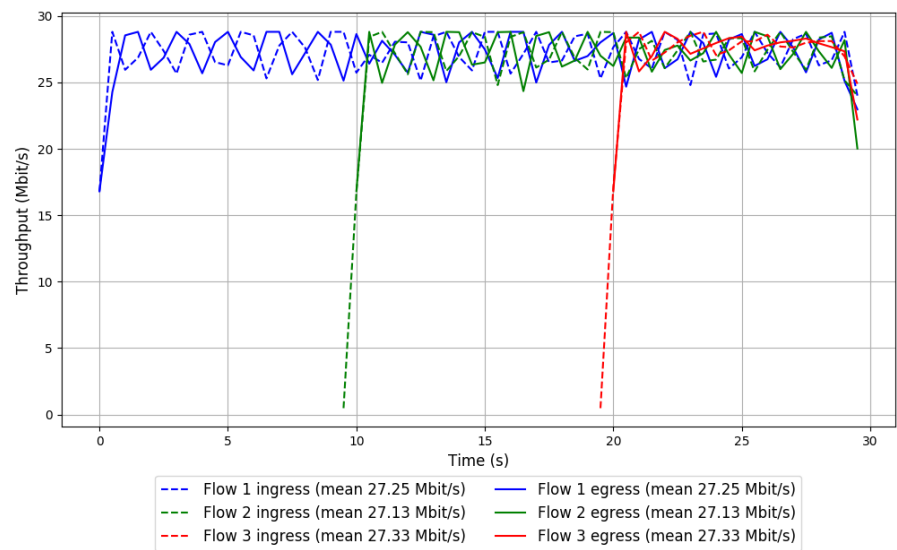
-- Flow 3:

Average throughput: 27.33 Mbit/s

95th percentile per-packet one-way delay: 38.120 ms

Loss rate: 0.83%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Sat, 29 Jul 2017 07:59:16 +0000

End at: Sat, 29 Jul 2017 07:59:46 +0000

Local clock offset: 0.707 ms

Remote clock offset: -0.478 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.888 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.904 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.923 ms

Loss rate: 0.39%

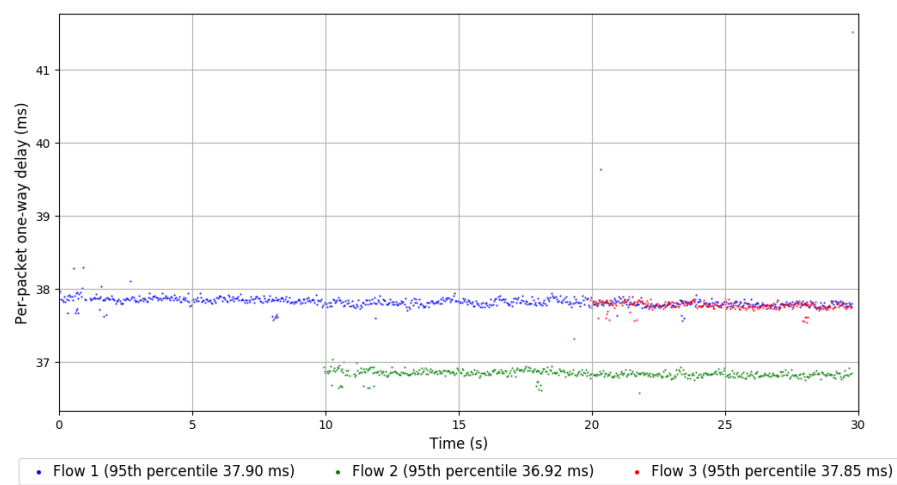
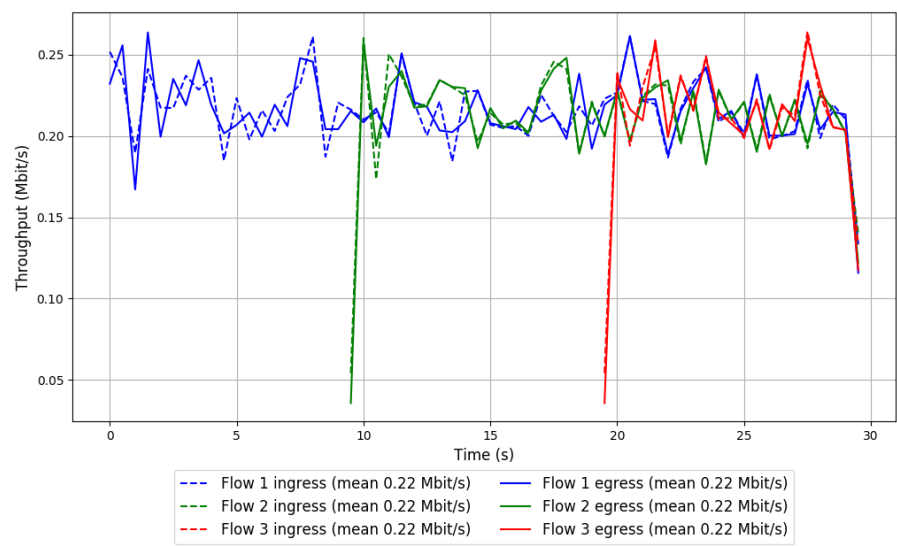
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.849 ms

Loss rate: 0.74%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: Sat, 29 Jul 2017 08:20:17 +0000

End at: Sat, 29 Jul 2017 08:20:47 +0000

Local clock offset: 0.664 ms

Remote clock offset: -2.661 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 39.900 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.912 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.878 ms

Loss rate: 0.43%

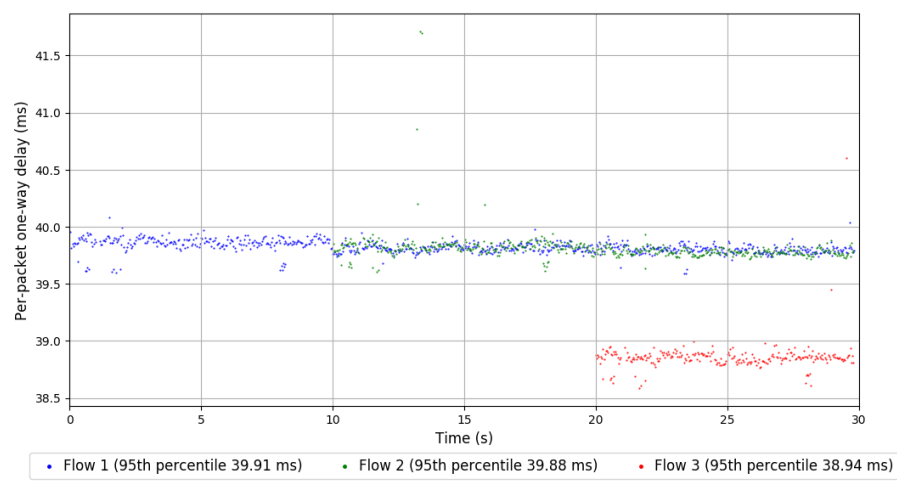
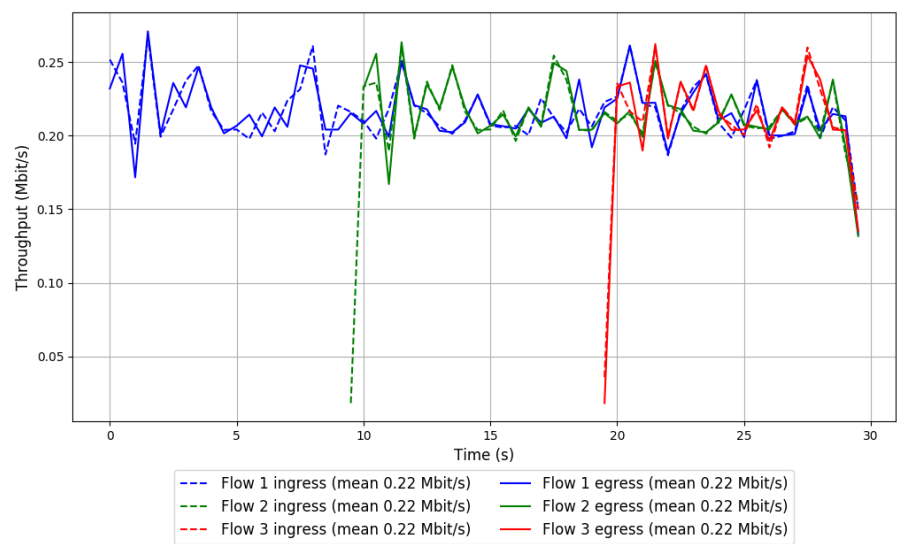
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 38.941 ms

Loss rate: 0.73%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: Sat, 29 Jul 2017 08:41:17 +0000

End at: Sat, 29 Jul 2017 08:41:47 +0000

Local clock offset: 0.595 ms

Remote clock offset: -0.196 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.404 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.427 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.443 ms

Loss rate: 0.43%

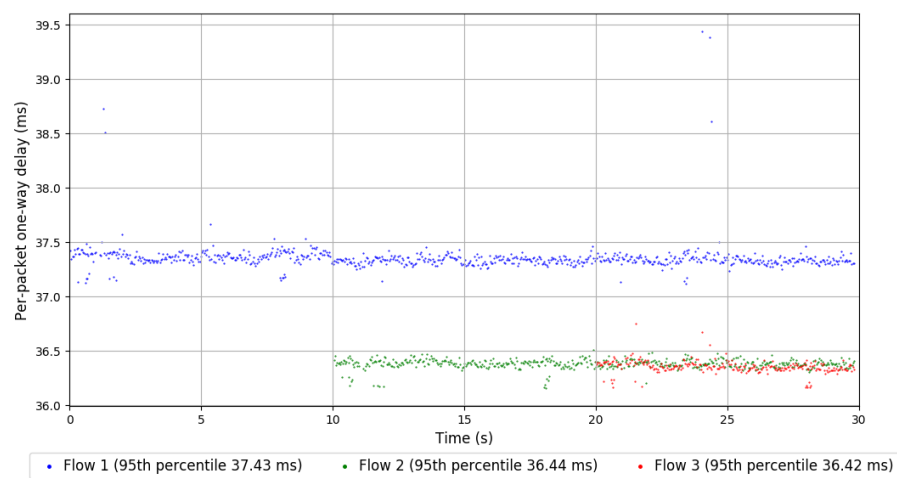
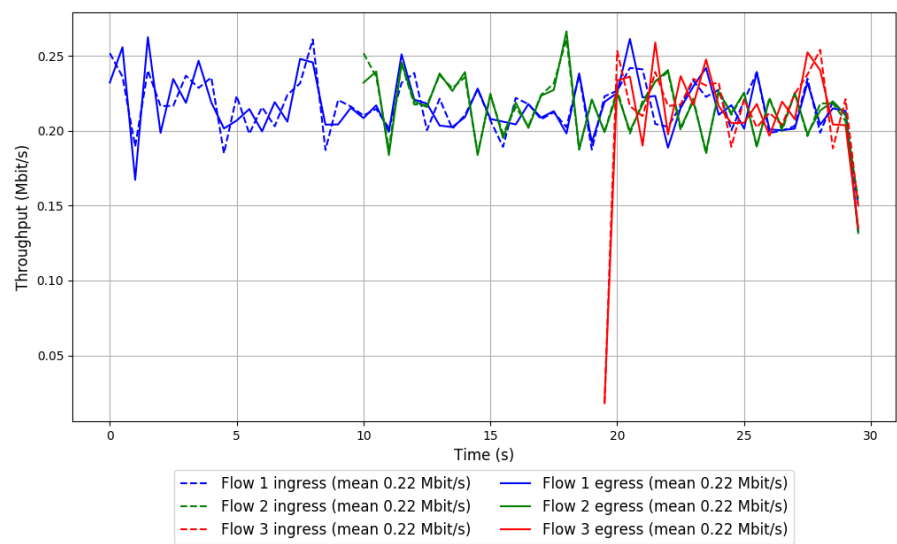
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.424 ms

Loss rate: 0.74%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: Sat, 29 Jul 2017 09:02:19 +0000

End at: Sat, 29 Jul 2017 09:02:49 +0000

Local clock offset: 0.582 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.424 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.441 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.450 ms

Loss rate: 0.42%

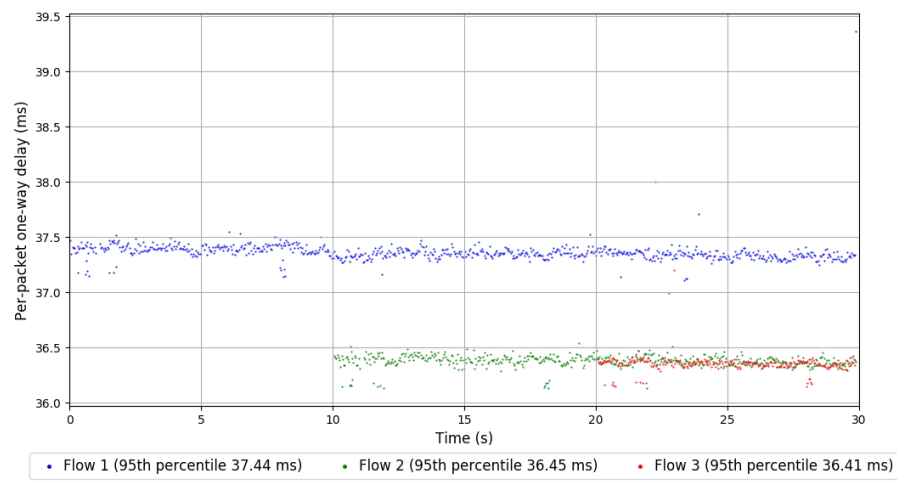
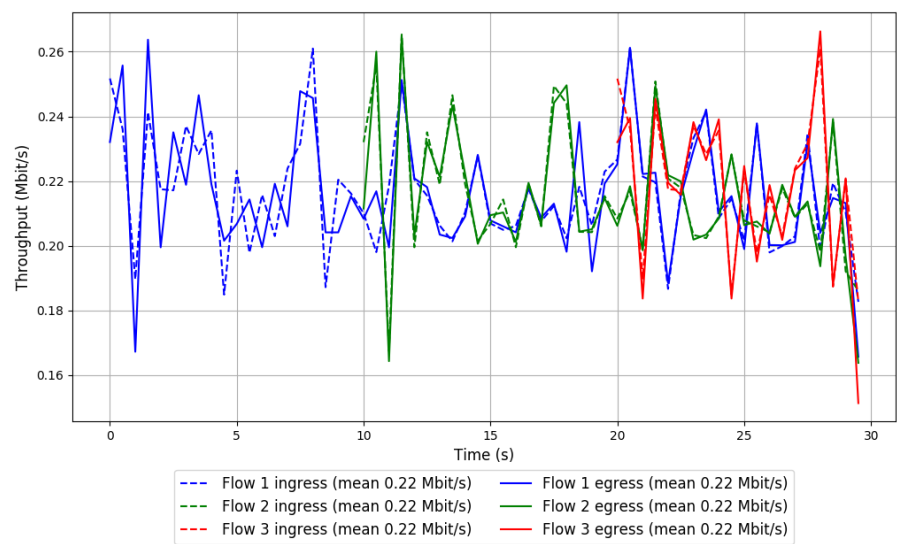
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.406 ms

Loss rate: 1.08%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: Sat, 29 Jul 2017 09:23:15 +0000

End at: Sat, 29 Jul 2017 09:23:45 +0000

Local clock offset: 0.414 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.245 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.364 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.410 ms

Loss rate: 0.42%

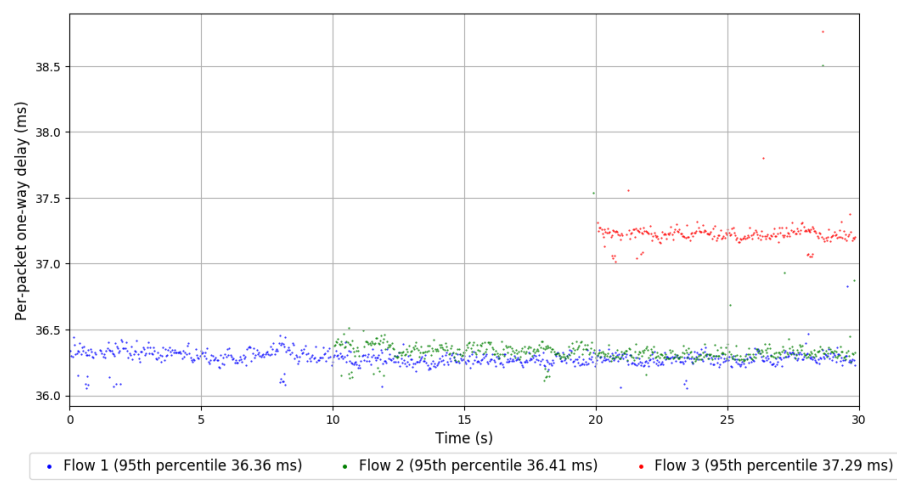
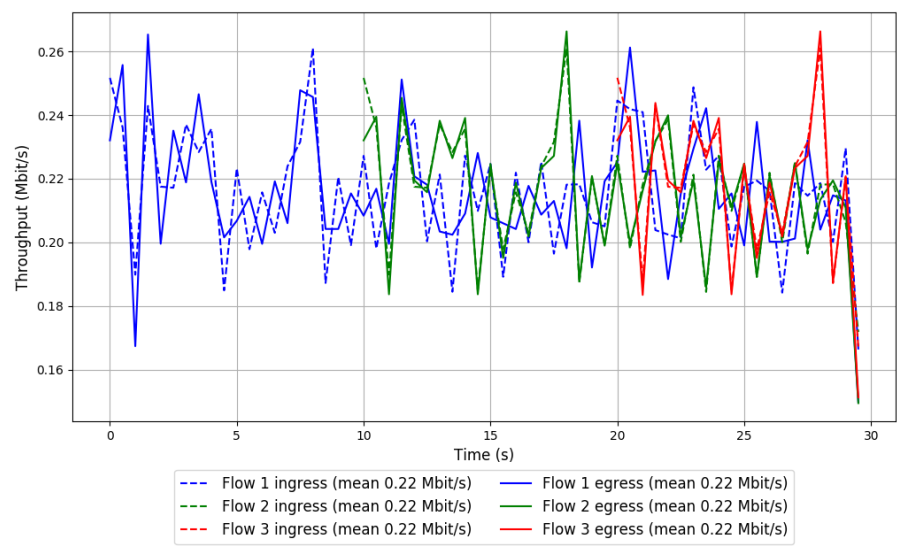
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.288 ms

Loss rate: 0.74%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: Sat, 29 Jul 2017 09:44:18 +0000

End at: Sat, 29 Jul 2017 09:44:48 +0000

Local clock offset: 0.499 ms

Remote clock offset: -2.273 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 39.970 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.015 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.999 ms

Loss rate: 0.63%

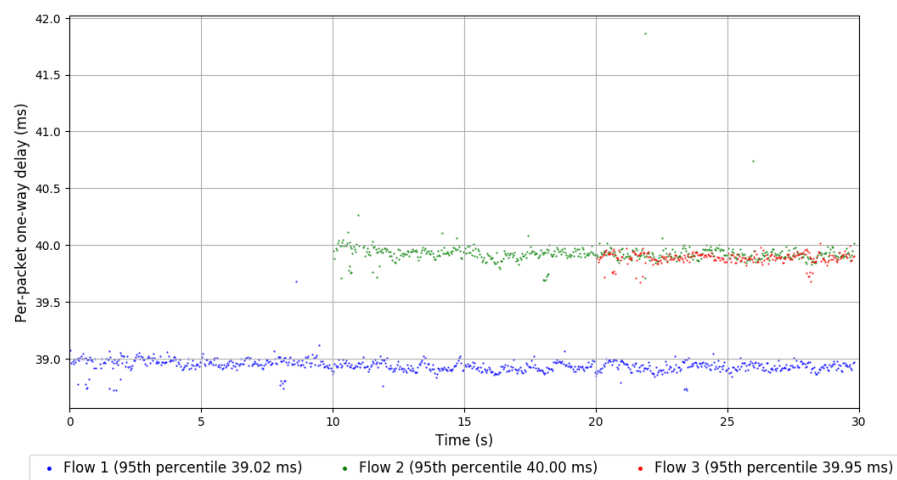
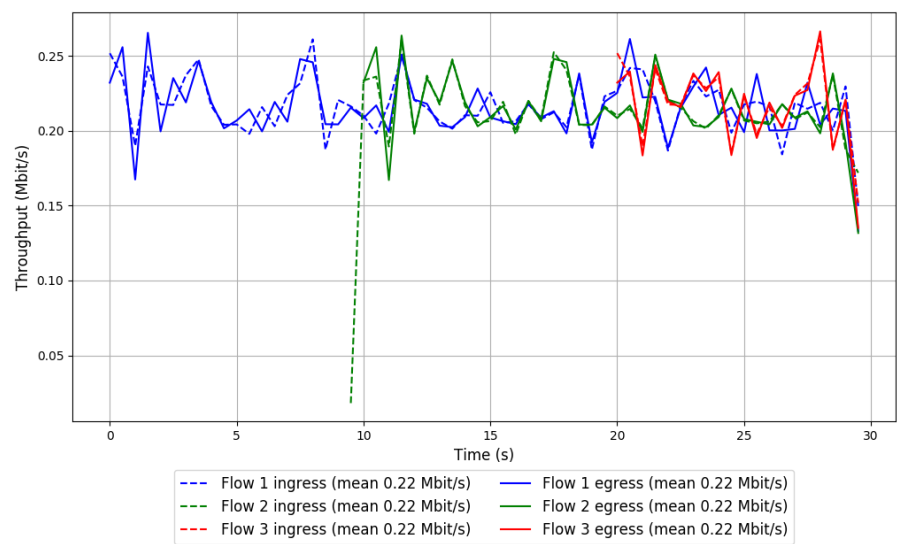
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.949 ms

Loss rate: 0.76%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: Sat, 29 Jul 2017 10:05:19 +0000

End at: Sat, 29 Jul 2017 10:05:49 +0000

Local clock offset: 0.49 ms

Remote clock offset: -0.181 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.803 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.902 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.886 ms

Loss rate: 0.42%

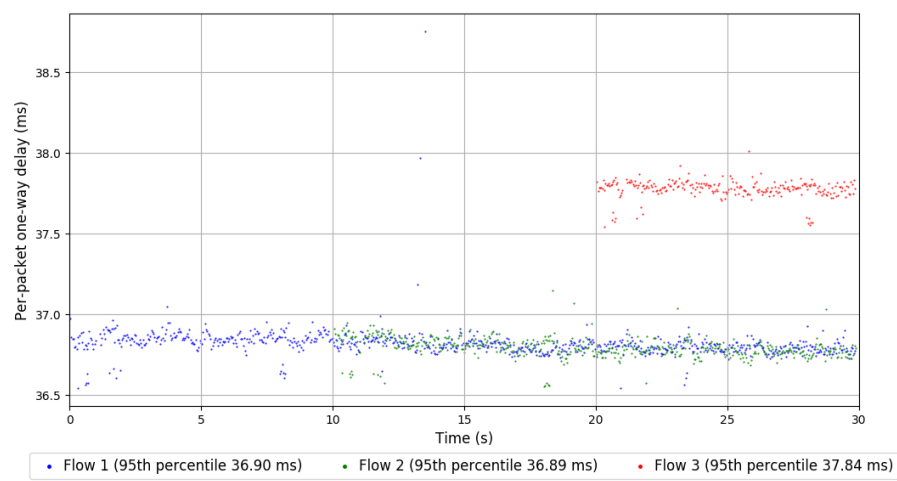
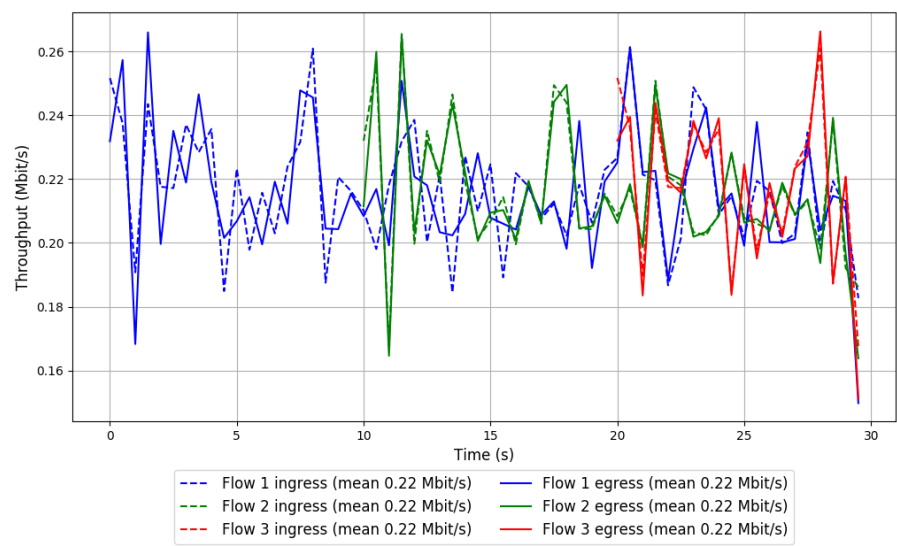
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.839 ms

Loss rate: 0.74%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: Sat, 29 Jul 2017 10:26:34 +0000

End at: Sat, 29 Jul 2017 10:27:04 +0000

Local clock offset: 0.48 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.413 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.405 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.433 ms

Loss rate: 0.43%

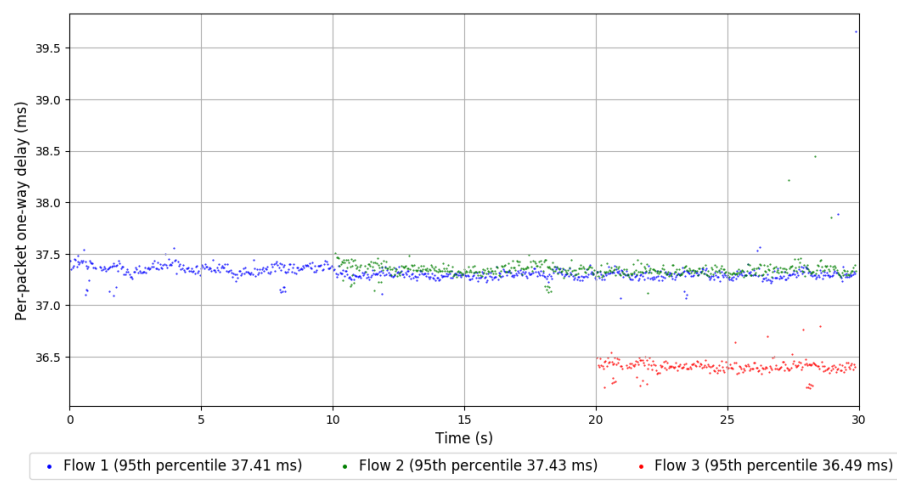
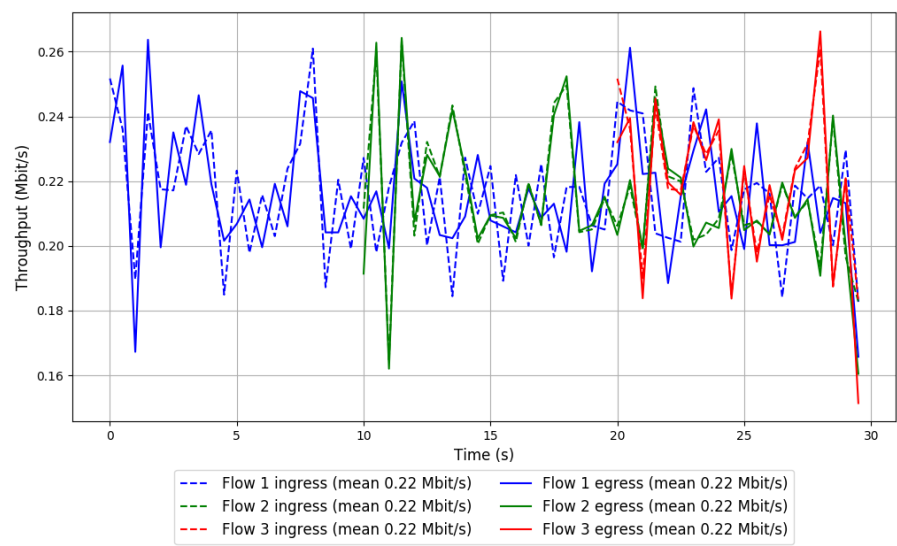
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.487 ms

Loss rate: 1.08%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: Sat, 29 Jul 2017 10:47:36 +0000

End at: Sat, 29 Jul 2017 10:48:06 +0000

Local clock offset: 0.505 ms

Remote clock offset: -2.382 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 39.884 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.031 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.002 ms

Loss rate: 0.43%

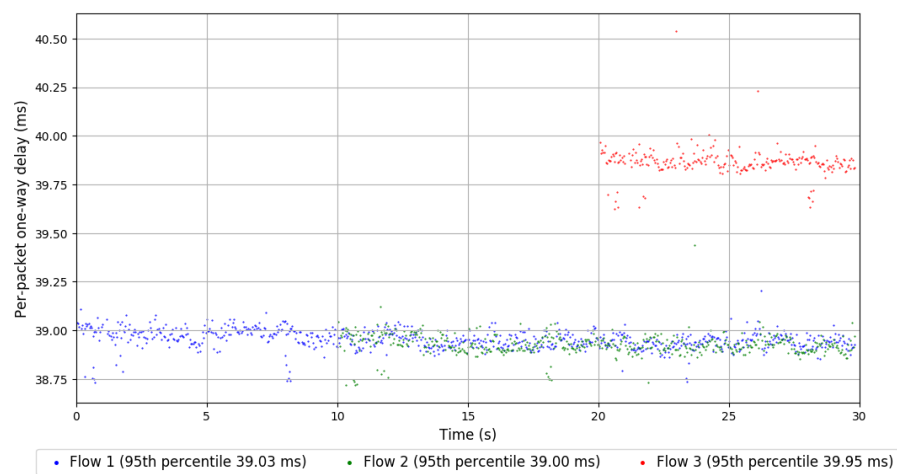
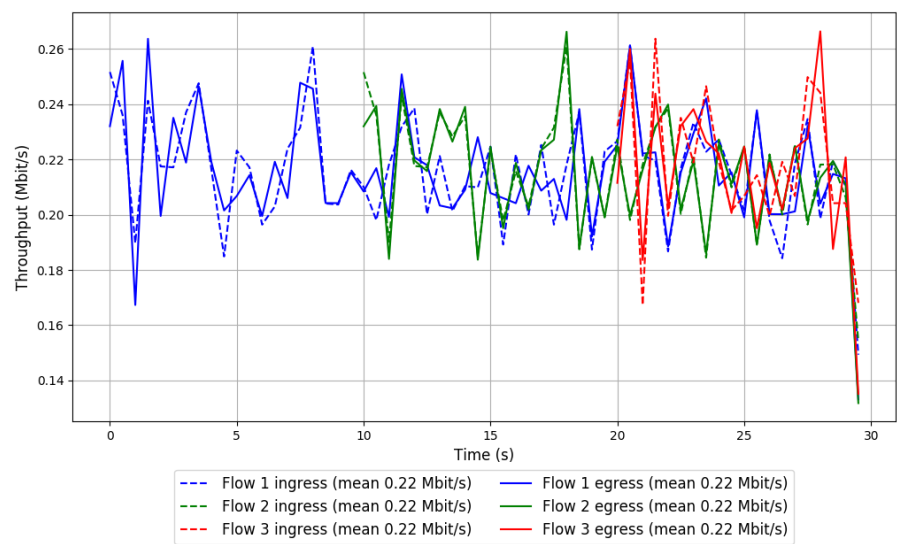
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.946 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: Sat, 29 Jul 2017 11:08:51 +0000

End at: Sat, 29 Jul 2017 11:09:21 +0000

Local clock offset: 0.481 ms

Remote clock offset: -2.373 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 39.878 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 38.995 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.901 ms

Loss rate: 0.39%

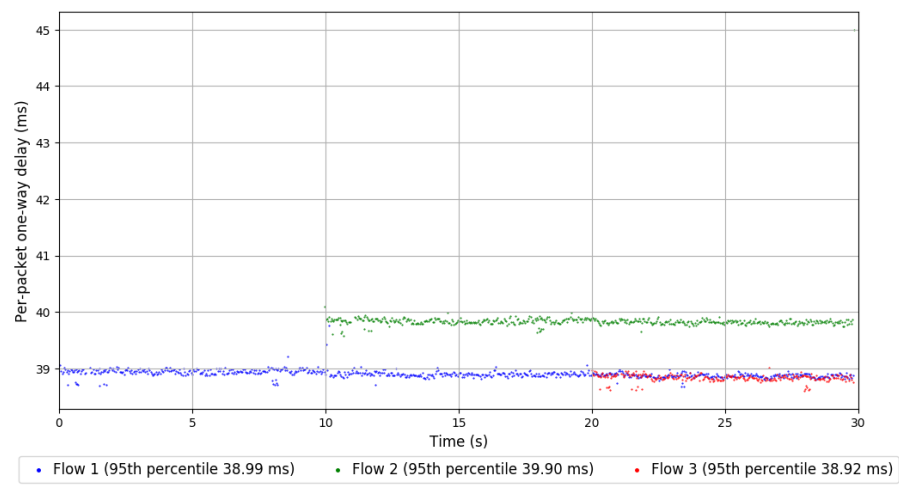
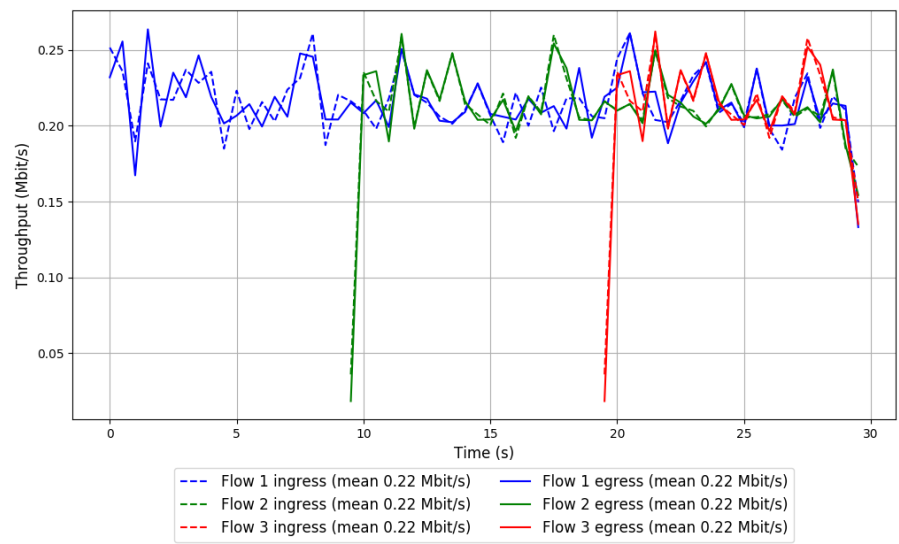
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 38.923 ms

Loss rate: 0.73%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Sat, 29 Jul 2017 08:00:35 +0000

End at: Sat, 29 Jul 2017 08:01:05 +0000

Local clock offset: 0.697 ms

Remote clock offset: -0.483 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 44.755 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 44.589 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 45.087 ms

Loss rate: 0.50%

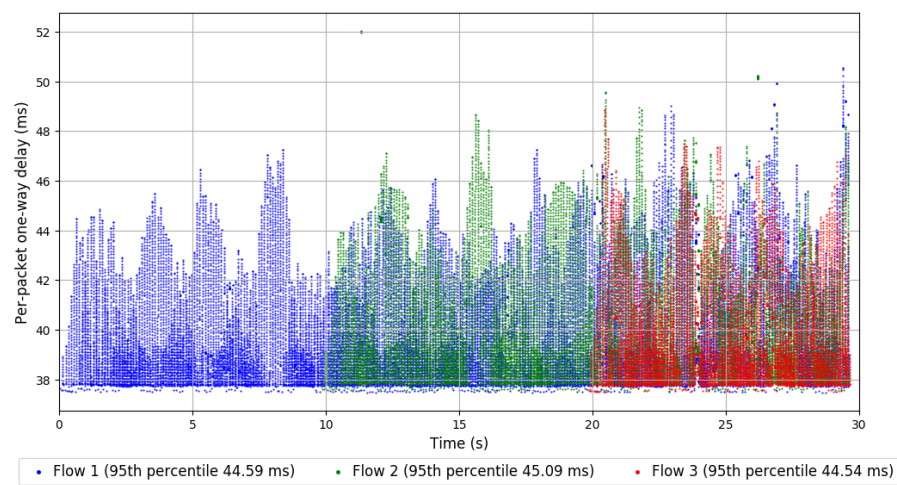
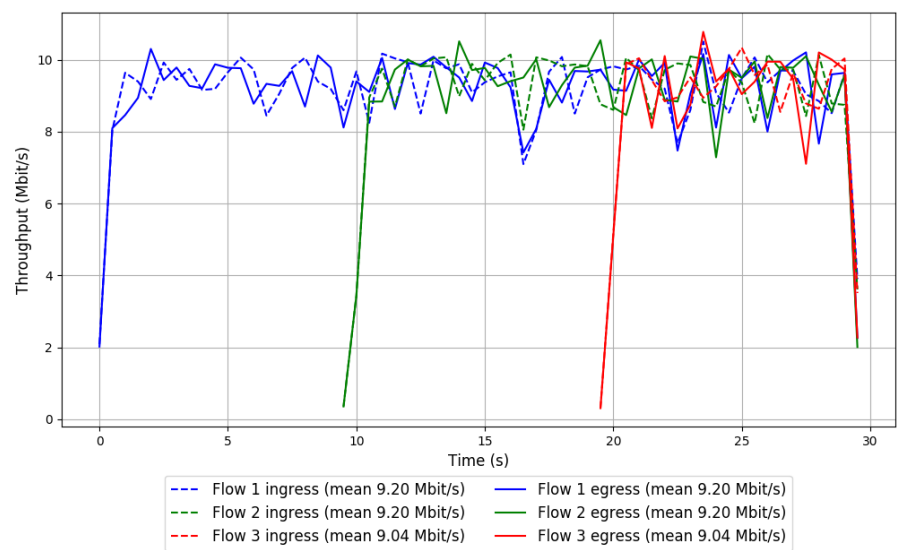
-- Flow 3:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 44.542 ms

Loss rate: 0.86%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Sat, 29 Jul 2017 08:21:36 +0000

End at: Sat, 29 Jul 2017 08:22:07 +0000

Local clock offset: 0.655 ms

Remote clock offset: -0.631 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 43.664 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 43.232 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 43.992 ms

Loss rate: 0.50%

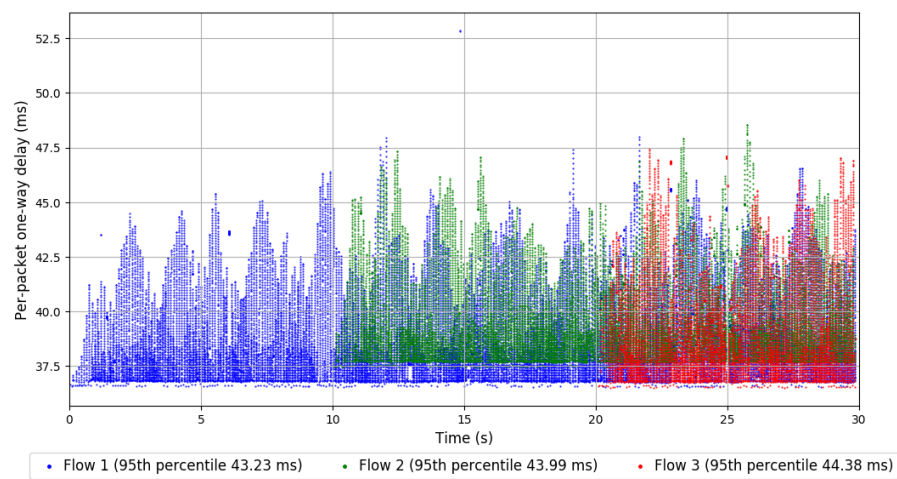
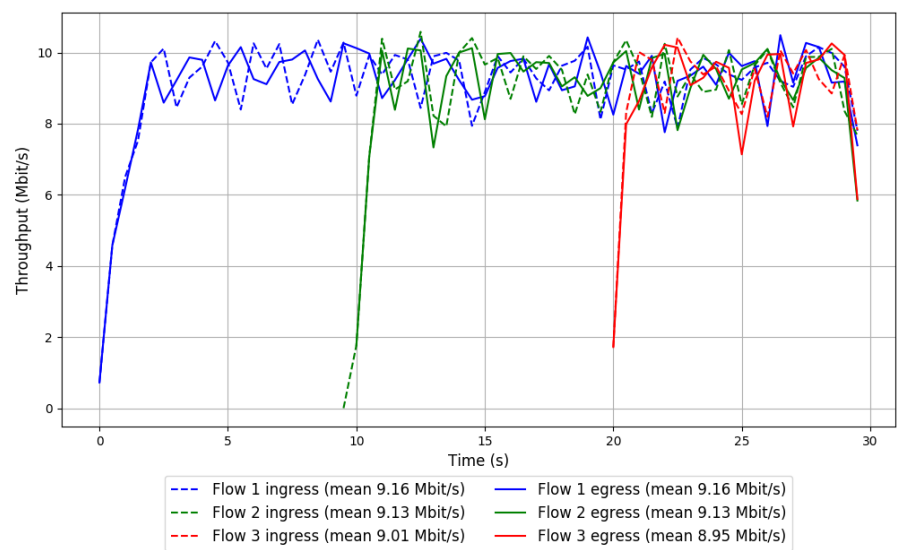
-- Flow 3:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 44.385 ms

Loss rate: 1.09%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Sat, 29 Jul 2017 08:42:36 +0000

End at: Sat, 29 Jul 2017 08:43:06 +0000

Local clock offset: 0.516 ms

Remote clock offset: -2.694 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.10 Mbit/s

95th percentile per-packet one-way delay: 46.343 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 45.977 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 46.920 ms

Loss rate: 0.56%

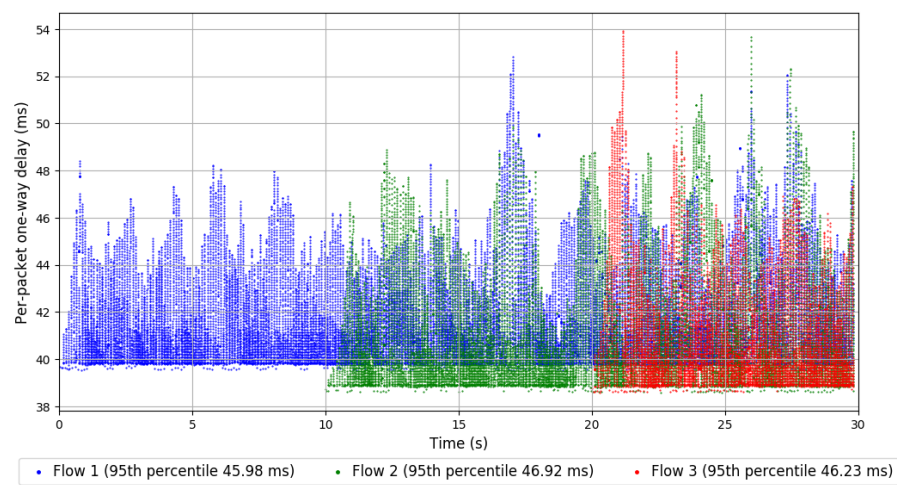
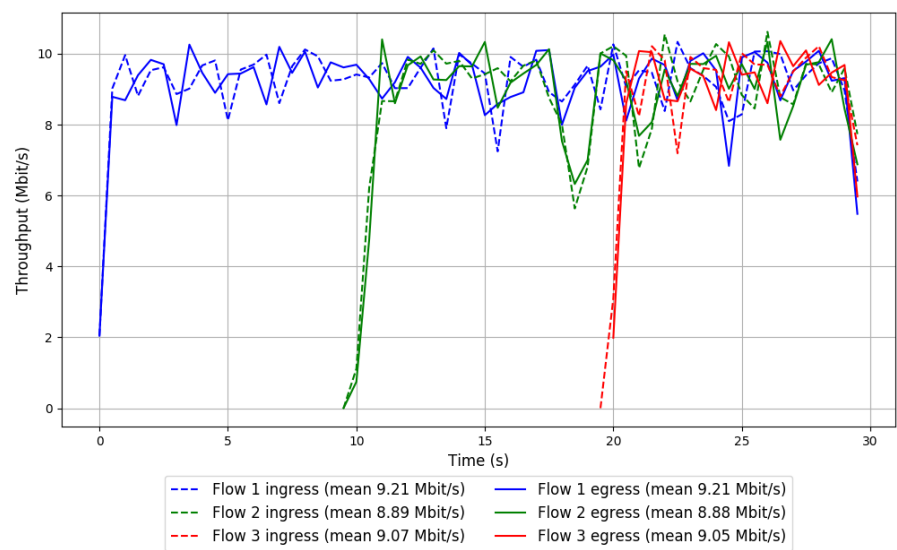
-- Flow 3:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 46.230 ms

Loss rate: 1.10%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: Sat, 29 Jul 2017 09:03:38 +0000

End at: Sat, 29 Jul 2017 09:04:08 +0000

Local clock offset: 0.462 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 43.424 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 43.427 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 9.28 Mbit/s

95th percentile per-packet one-way delay: 42.883 ms

Loss rate: 0.52%

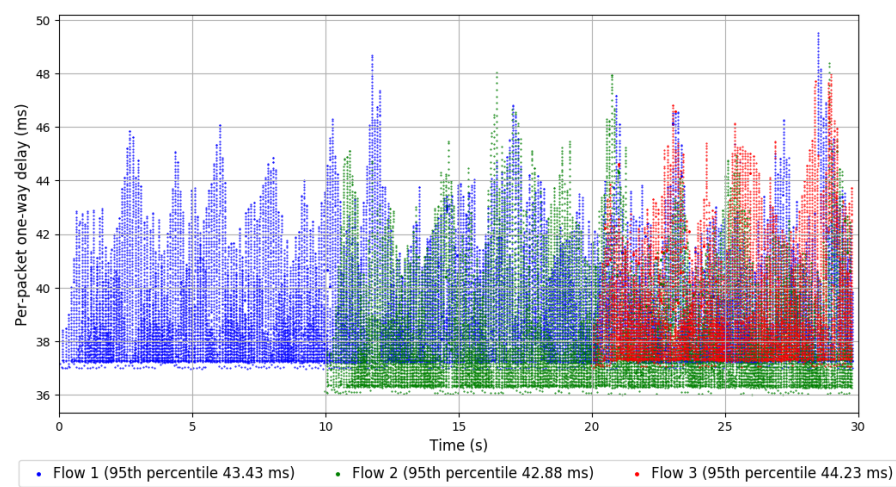
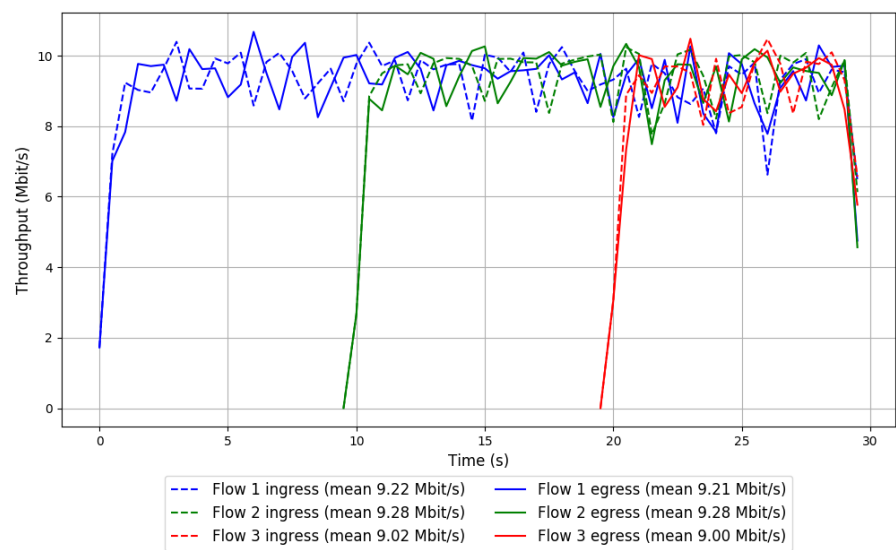
-- Flow 3:

Average throughput: 9.00 Mbit/s

95th percentile per-packet one-way delay: 44.229 ms

Loss rate: 1.15%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: Sat, 29 Jul 2017 09:24:34 +0000

End at: Sat, 29 Jul 2017 09:25:04 +0000

Local clock offset: 0.435 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 43.628 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 43.375 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 43.673 ms

Loss rate: 0.78%

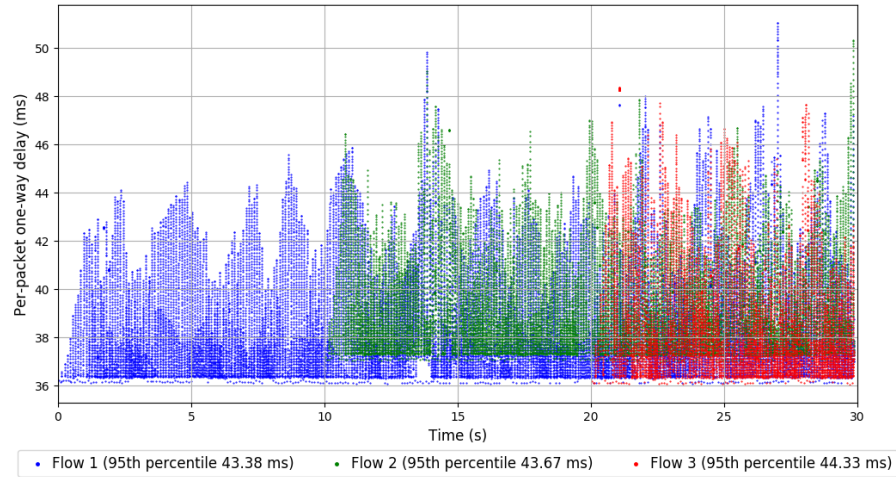
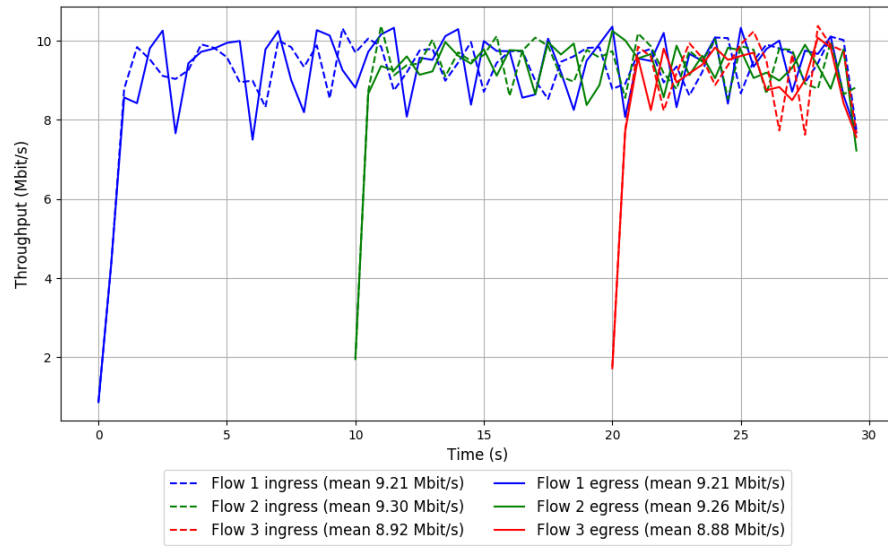
-- Flow 3:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 44.327 ms

Loss rate: 1.26%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Sat, 29 Jul 2017 09:45:38 +0000

End at: Sat, 29 Jul 2017 09:46:08 +0000

Local clock offset: 0.382 ms

Remote clock offset: -2.225 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.30 Mbit/s

95th percentile per-packet one-way delay: 46.186 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 9.30 Mbit/s

95th percentile per-packet one-way delay: 46.013 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 9.10 Mbit/s

95th percentile per-packet one-way delay: 46.408 ms

Loss rate: 0.52%

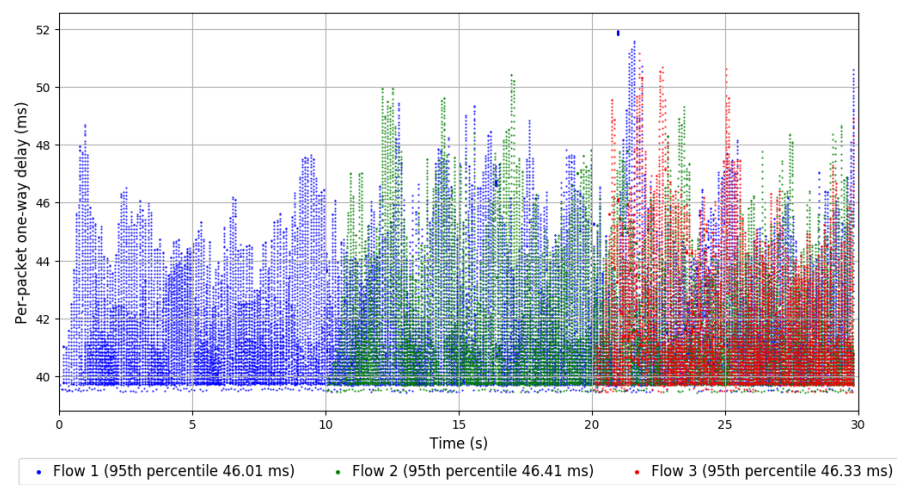
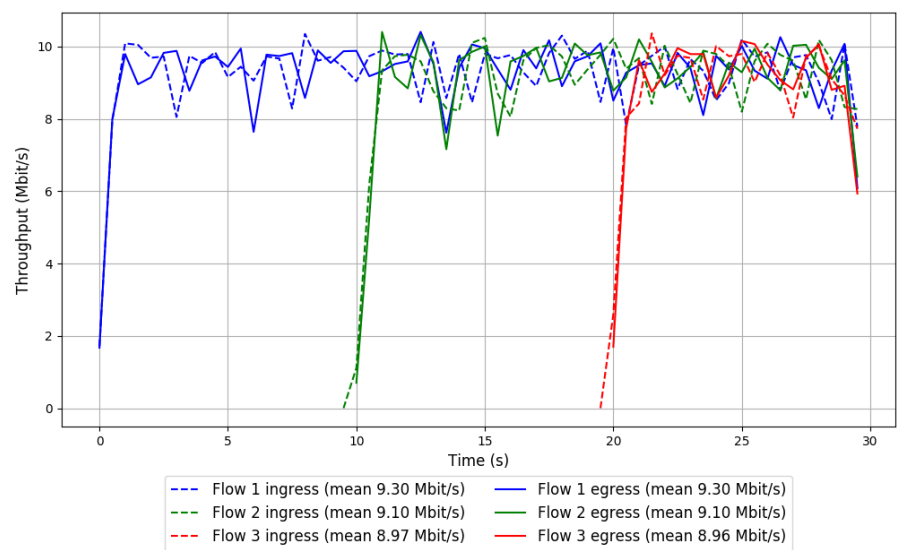
-- Flow 3:

Average throughput: 8.96 Mbit/s

95th percentile per-packet one-way delay: 46.325 ms

Loss rate: 1.16%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: Sat, 29 Jul 2017 10:06:38 +0000

End at: Sat, 29 Jul 2017 10:07:08 +0000

Local clock offset: 0.397 ms

Remote clock offset: -0.228 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 44.734 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 9.33 Mbit/s

95th percentile per-packet one-way delay: 44.929 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 9.08 Mbit/s

95th percentile per-packet one-way delay: 44.519 ms

Loss rate: 0.54%

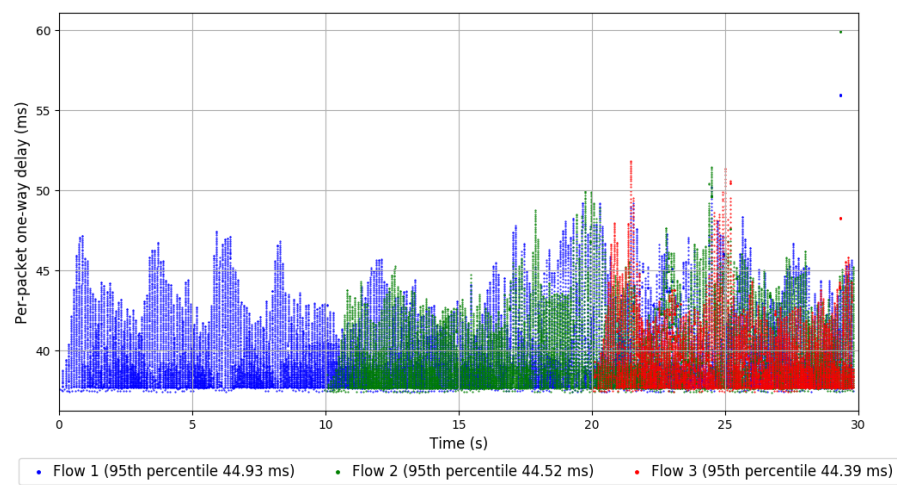
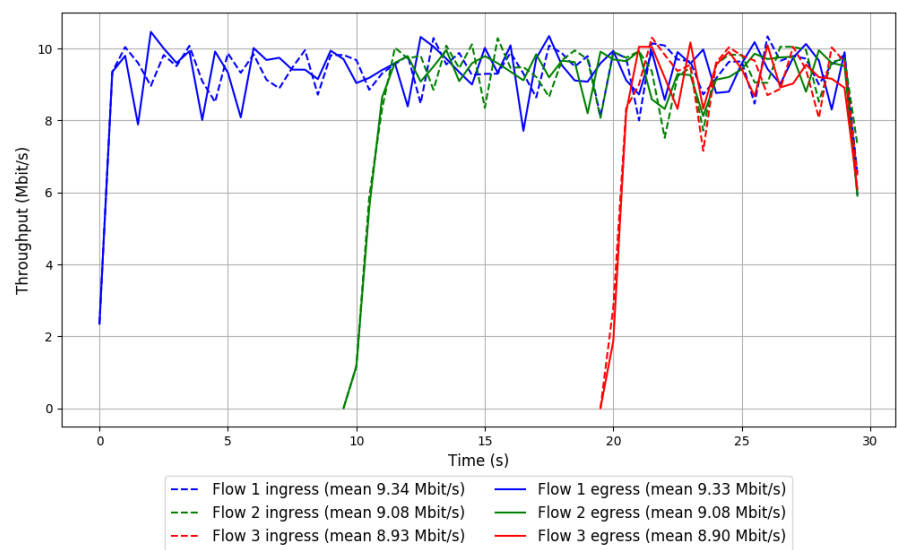
-- Flow 3:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 44.386 ms

Loss rate: 1.13%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Sat, 29 Jul 2017 10:27:53 +0000

End at: Sat, 29 Jul 2017 10:28:23 +0000

Local clock offset: 0.389 ms

Remote clock offset: -2.261 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:06:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 45.906 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 45.635 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 9.27 Mbit/s

95th percentile per-packet one-way delay: 46.249 ms

Loss rate: 0.53%

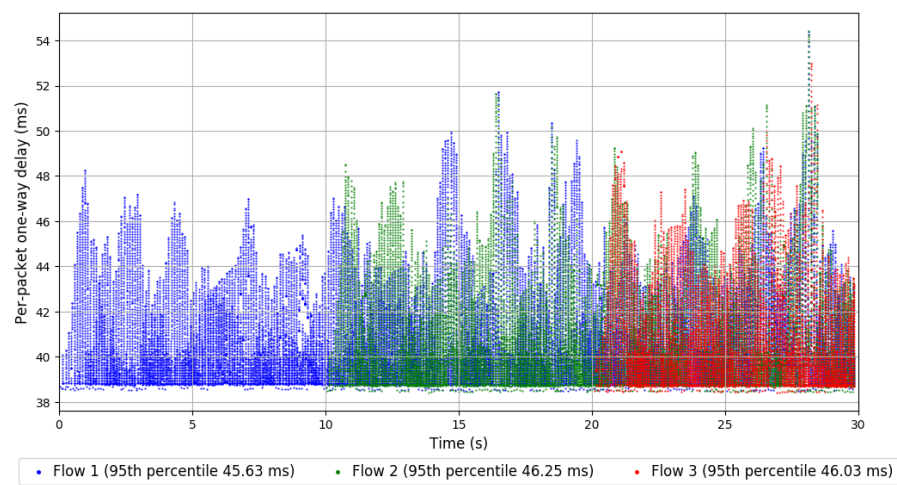
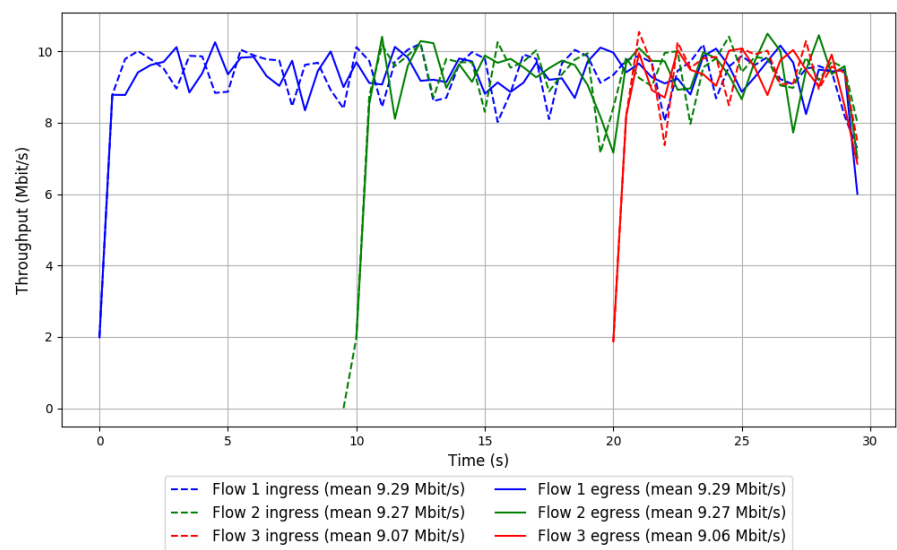
-- Flow 3:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 46.028 ms

Loss rate: 1.08%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Sat, 29 Jul 2017 10:48:56 +0000

End at: Sat, 29 Jul 2017 10:49:26 +0000

Local clock offset: 0.5 ms

Remote clock offset: -0.292 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:07:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 44.415 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 43.665 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 45.477 ms

Loss rate: 0.55%

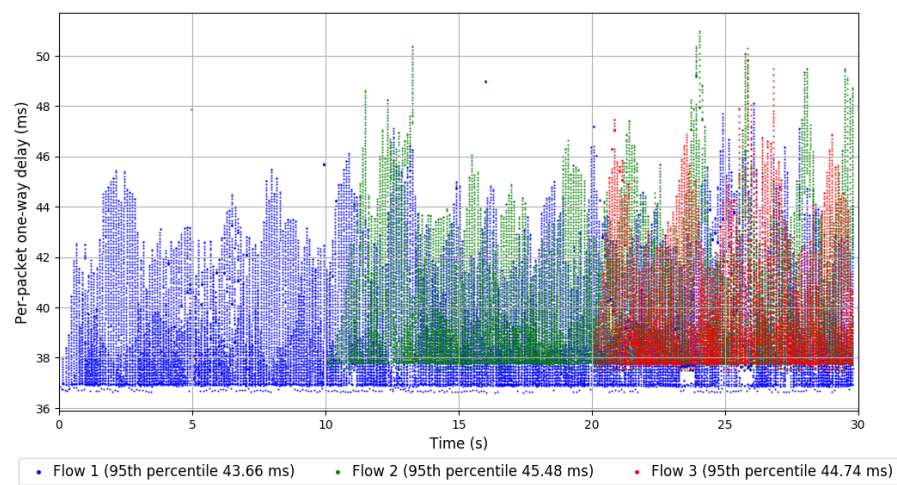
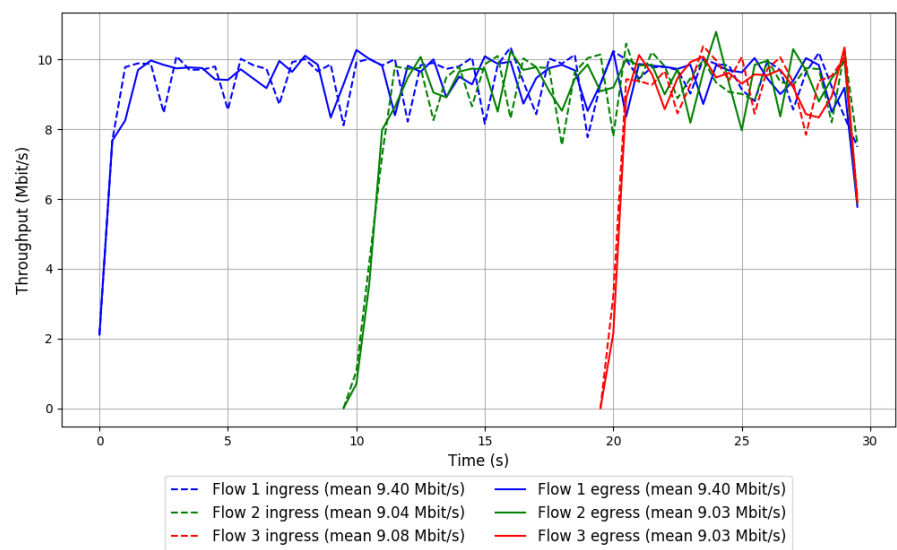
-- Flow 3:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 44.742 ms

Loss rate: 1.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Sat, 29 Jul 2017 11:10:11 +0000

End at: Sat, 29 Jul 2017 11:10:41 +0000

Local clock offset: 0.474 ms

Remote clock offset: -0.192 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:07:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.27 Mbit/s

95th percentile per-packet one-way delay: 43.820 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 9.30 Mbit/s

95th percentile per-packet one-way delay: 43.211 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 43.773 ms

Loss rate: 0.62%

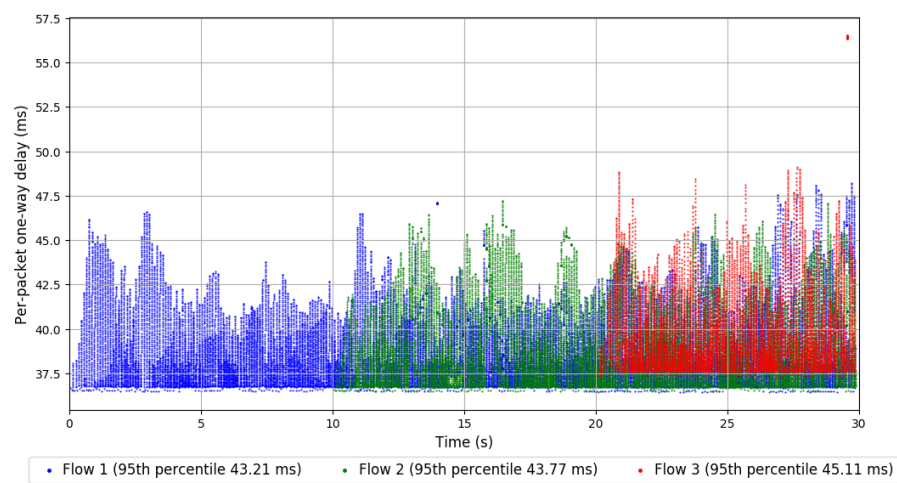
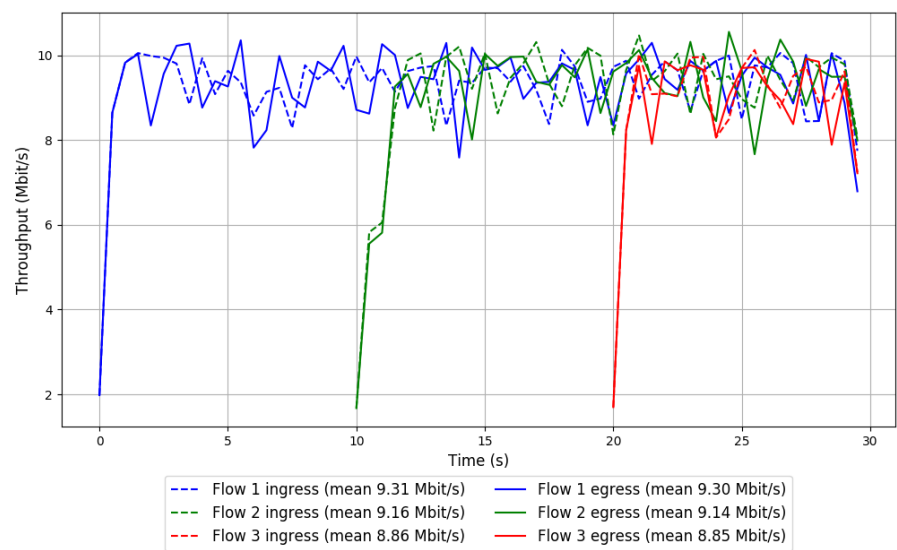
-- Flow 3:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 45.113 ms

Loss rate: 0.92%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 07:53:31 +0000

End at: Sat, 29 Jul 2017 07:54:01 +0000

Local clock offset: 0.615 ms

Remote clock offset: -0.285 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:07:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 66.629 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 66.579 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 39.41 Mbit/s

95th percentile per-packet one-way delay: 66.705 ms

Loss rate: 0.47%

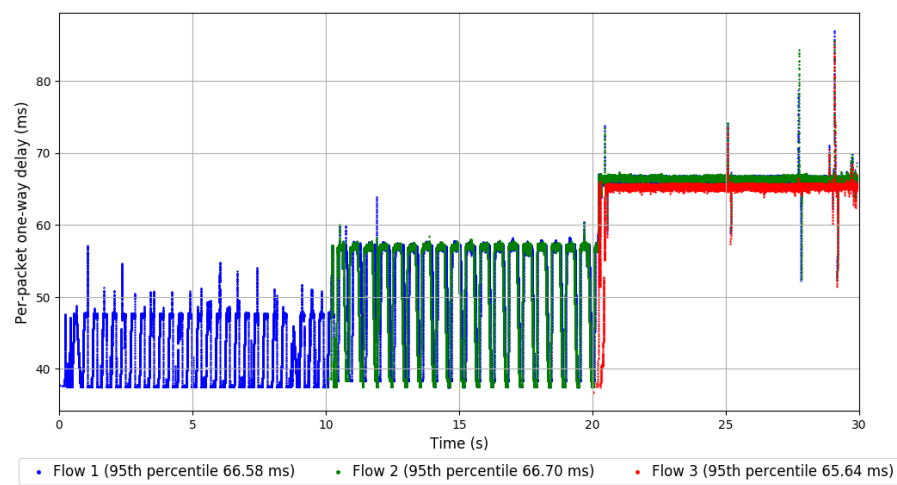
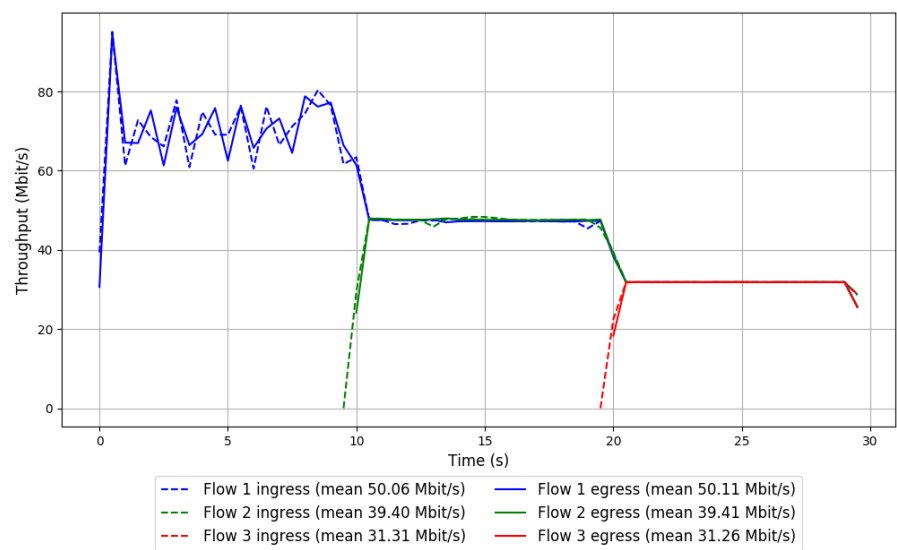
-- Flow 3:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 65.640 ms

Loss rate: 1.18%

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



Run 2: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 08:14:31 +0000

End at: Sat, 29 Jul 2017 08:15:01 +0000

Local clock offset: 0.631 ms

Remote clock offset: -2.67 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:07:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.62 Mbit/s

95th percentile per-packet one-way delay: 77.602 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 58.404 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 78.101 ms

Loss rate: 0.43%

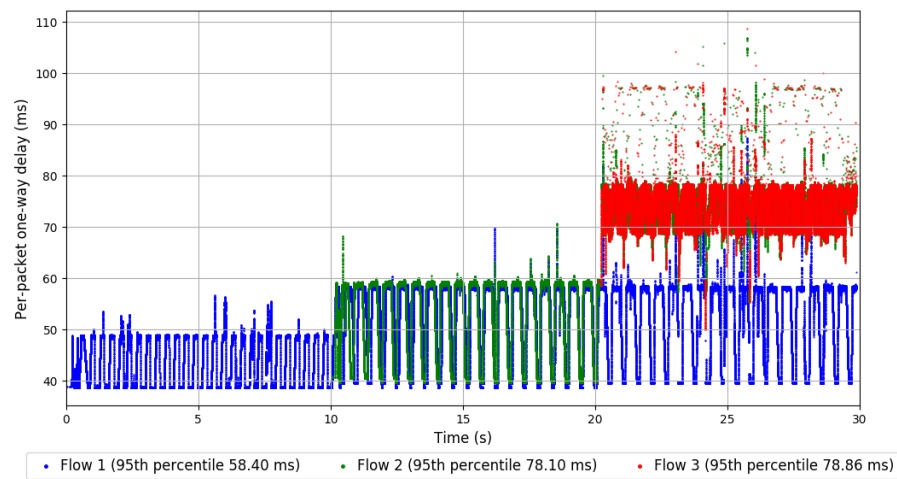
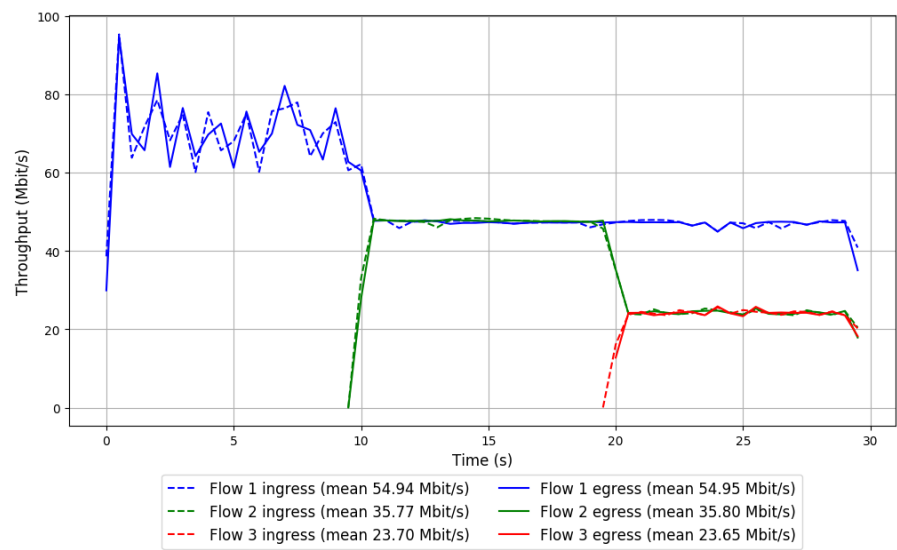
-- Flow 3:

Average throughput: 23.65 Mbit/s

95th percentile per-packet one-way delay: 78.864 ms

Loss rate: 1.22%

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



Run 3: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 08:35:34 +0000

End at: Sat, 29 Jul 2017 08:36:04 +0000

Local clock offset: 0.625 ms

Remote clock offset: -0.718 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:07:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 66.773 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 50.53 Mbit/s

95th percentile per-packet one-way delay: 66.839 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 39.49 Mbit/s

95th percentile per-packet one-way delay: 65.964 ms

Loss rate: 0.47%

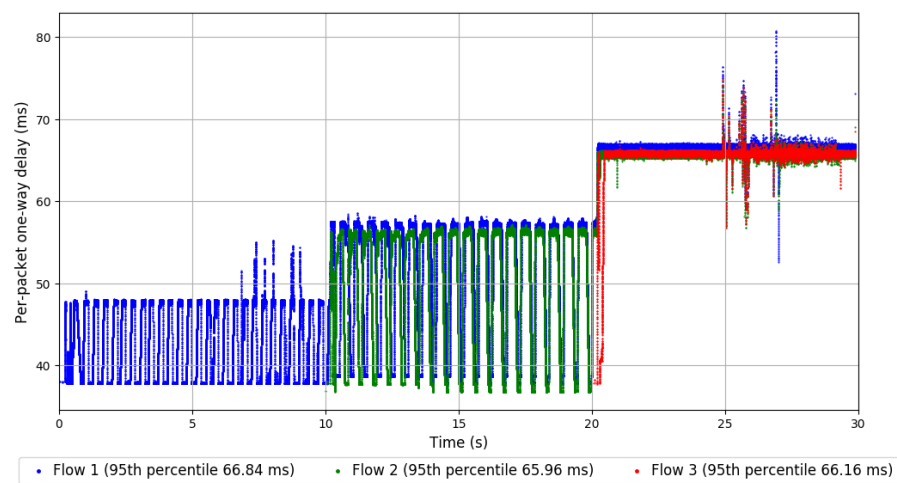
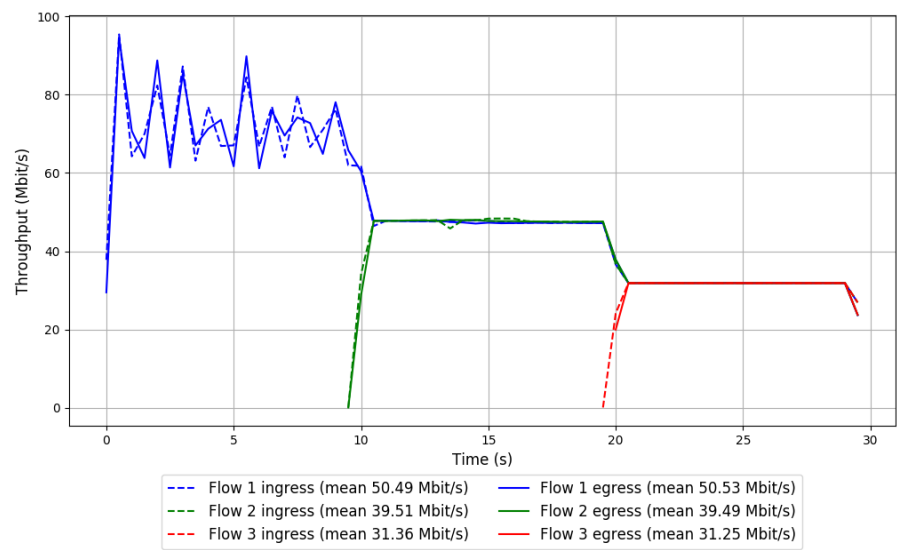
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 66.159 ms

Loss rate: 1.18%

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



Run 4: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 08:56:37 +0000

End at: Sat, 29 Jul 2017 08:57:07 +0000

Local clock offset: 0.571 ms

Remote clock offset: -2.567 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:07:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.35 Mbit/s

95th percentile per-packet one-way delay: 68.830 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 68.030 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 69.003 ms

Loss rate: 0.53%

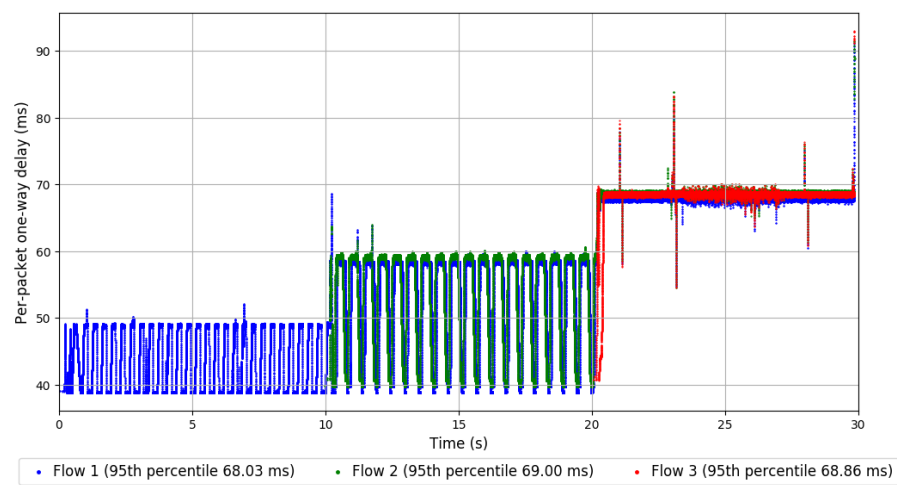
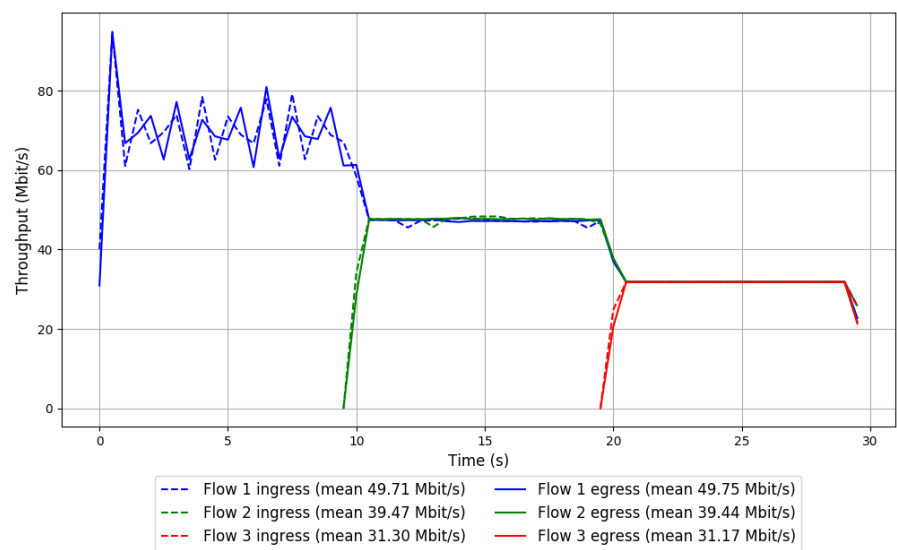
-- Flow 3:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 68.860 ms

Loss rate: 1.42%

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



Run 5: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 09:17:35 +0000

End at: Sat, 29 Jul 2017 09:18:05 +0000

Local clock offset: 0.523 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:08:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 65.992 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 66.065 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 65.369 ms

Loss rate: 0.53%

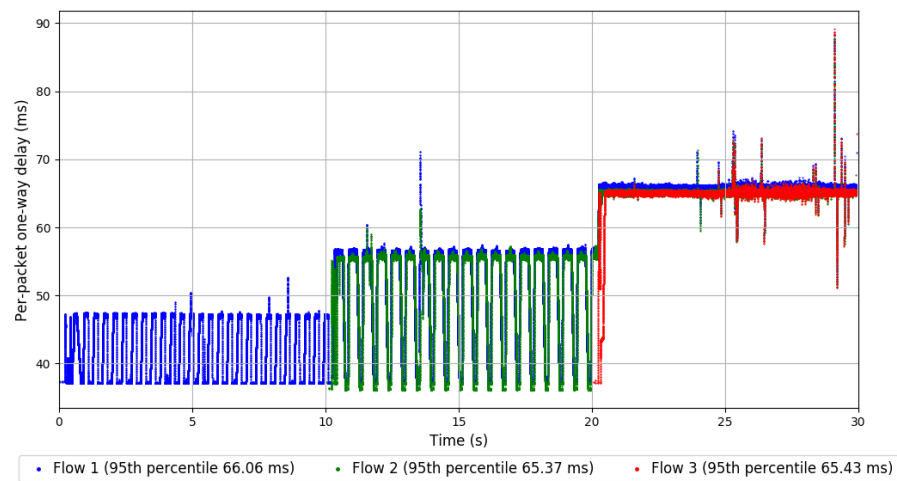
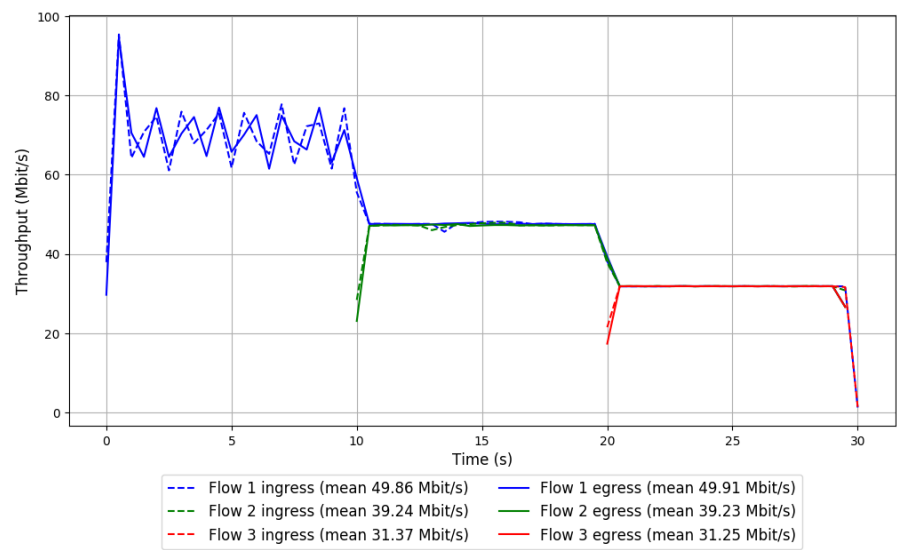
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 65.427 ms

Loss rate: 1.68%

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



Run 6: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 09:38:36 +0000

End at: Sat, 29 Jul 2017 09:39:06 +0000

Local clock offset: 0.37 ms

Remote clock offset: -2.175 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:08:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.30 Mbit/s

95th percentile per-packet one-way delay: 68.631 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 49.84 Mbit/s

95th percentile per-packet one-way delay: 67.662 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 68.673 ms

Loss rate: 0.46%

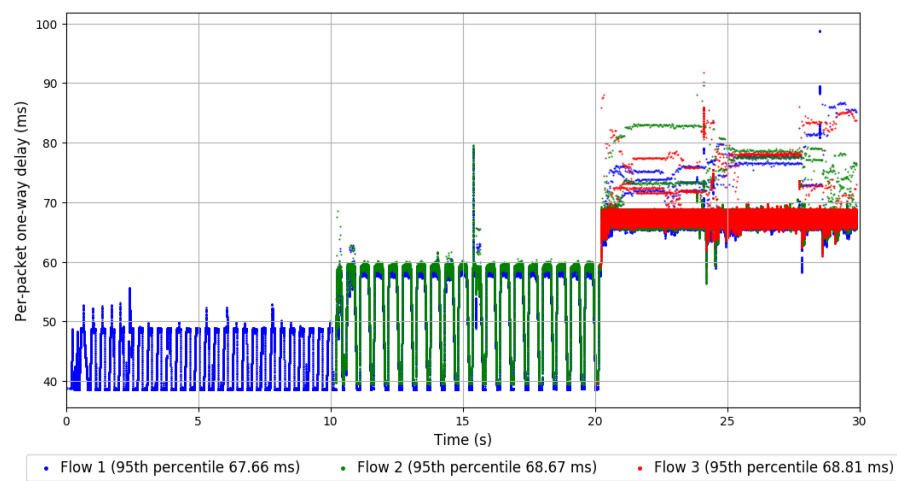
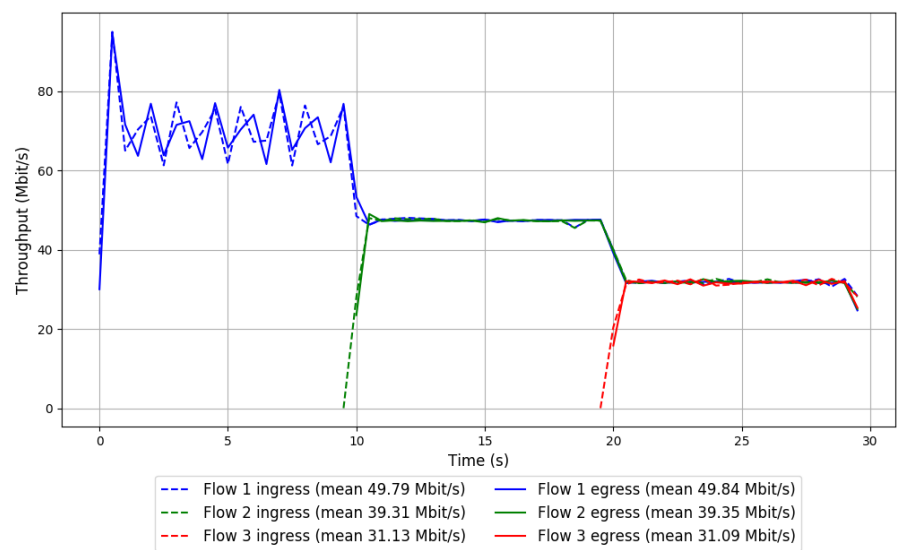
-- Flow 3:

Average throughput: 31.09 Mbit/s

95th percentile per-packet one-way delay: 68.807 ms

Loss rate: 1.17%

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



Run 7: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 09:59:37 +0000

End at: Sat, 29 Jul 2017 10:00:07 +0000

Local clock offset: 0.406 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:08:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.54 Mbit/s

95th percentile per-packet one-way delay: 65.488 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 65.514 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 65.454 ms

Loss rate: 0.67%

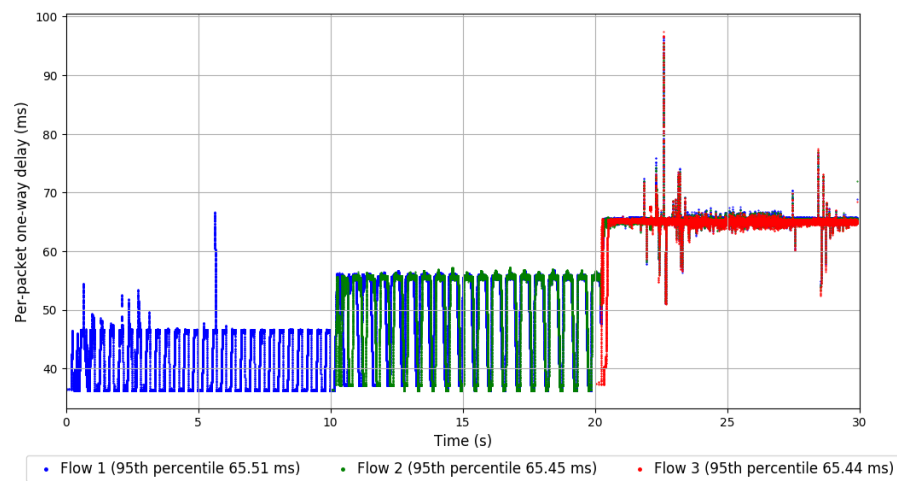
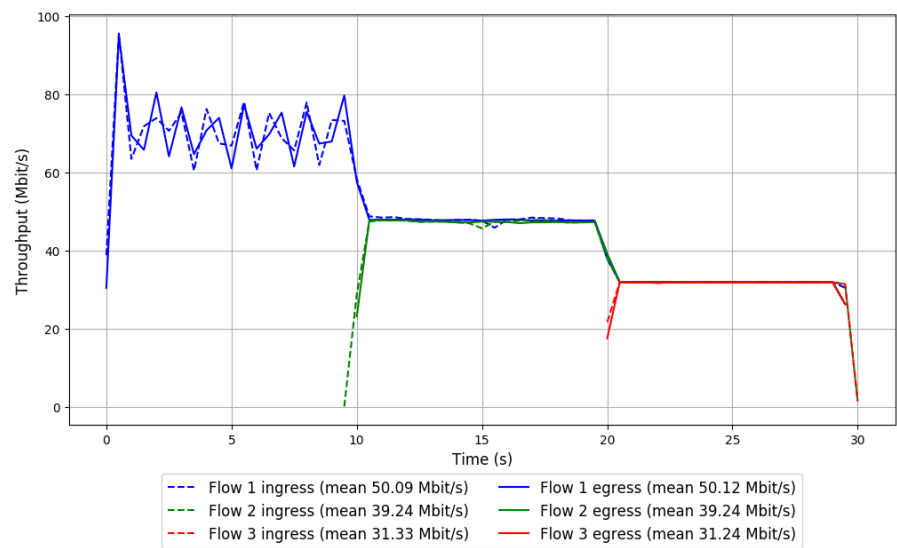
-- Flow 3:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 65.444 ms

Loss rate: 1.68%

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



Run 8: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 10:20:49 +0000

End at: Sat, 29 Jul 2017 10:21:19 +0000

Local clock offset: 0.467 ms

Remote clock offset: -2.344 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:08:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 77.166 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 77.408 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 58.532 ms

Loss rate: 0.51%

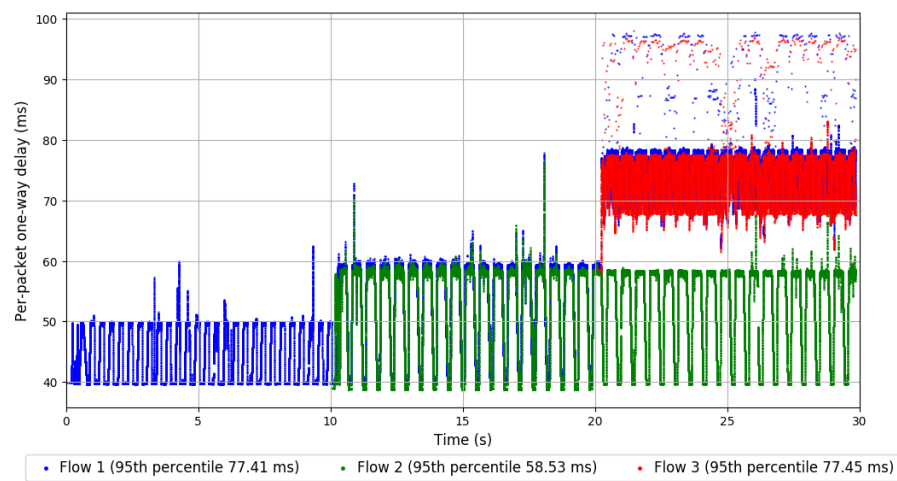
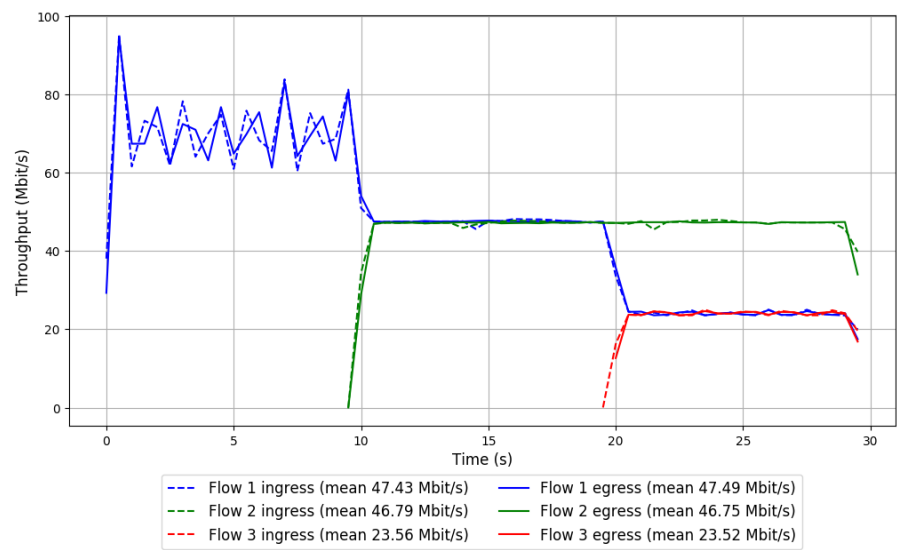
-- Flow 3:

Average throughput: 23.52 Mbit/s

95th percentile per-packet one-way delay: 77.447 ms

Loss rate: 1.36%

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



Run 9: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 10:41:53 +0000

End at: Sat, 29 Jul 2017 10:42:23 +0000

Local clock offset: 0.496 ms

Remote clock offset: -2.284 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:08:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 77.231 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 47.93 Mbit/s

95th percentile per-packet one-way delay: 76.890 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 46.57 Mbit/s

95th percentile per-packet one-way delay: 58.370 ms

Loss rate: 0.55%

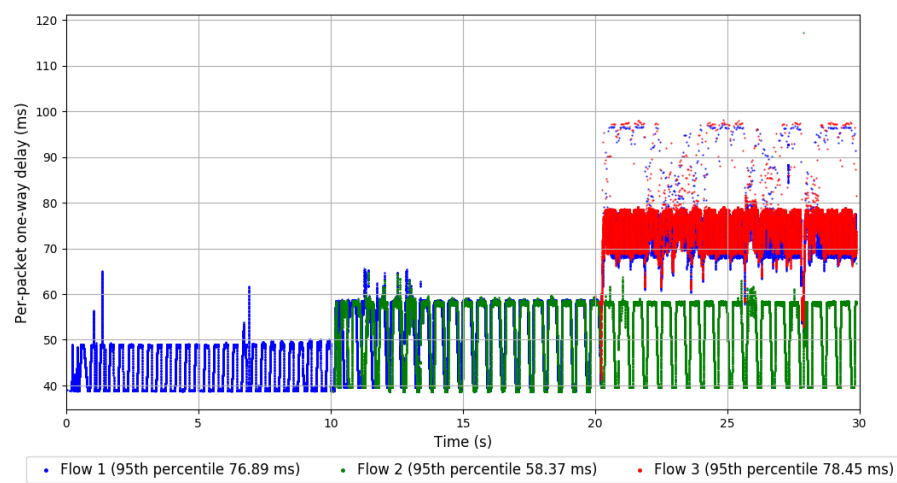
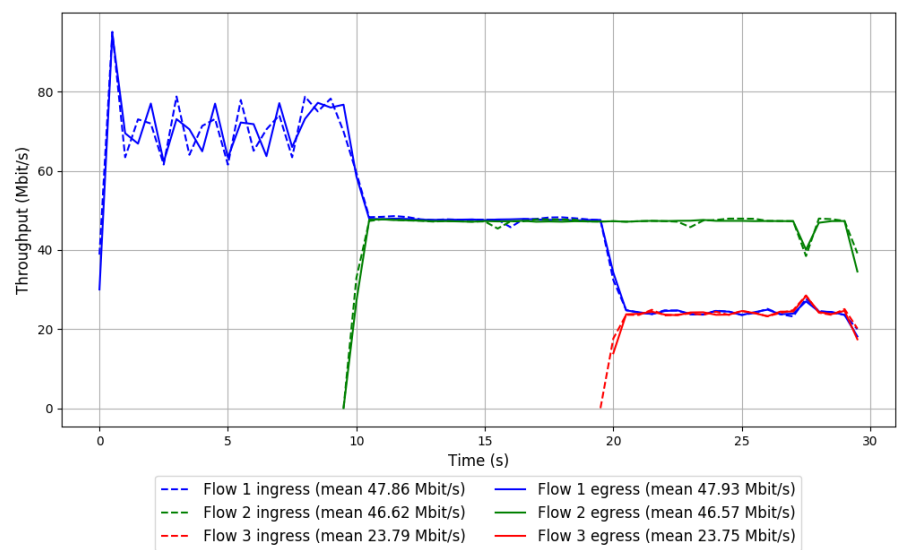
-- Flow 3:

Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 78.453 ms

Loss rate: 1.39%

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



Run 10: Statistics of TaoVA-100x

Start at: Sat, 29 Jul 2017 11:03:07 +0000

End at: Sat, 29 Jul 2017 11:03:37 +0000

Local clock offset: 0.576 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:08:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 66.091 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 65.348 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 66.406 ms

Loss rate: 0.46%

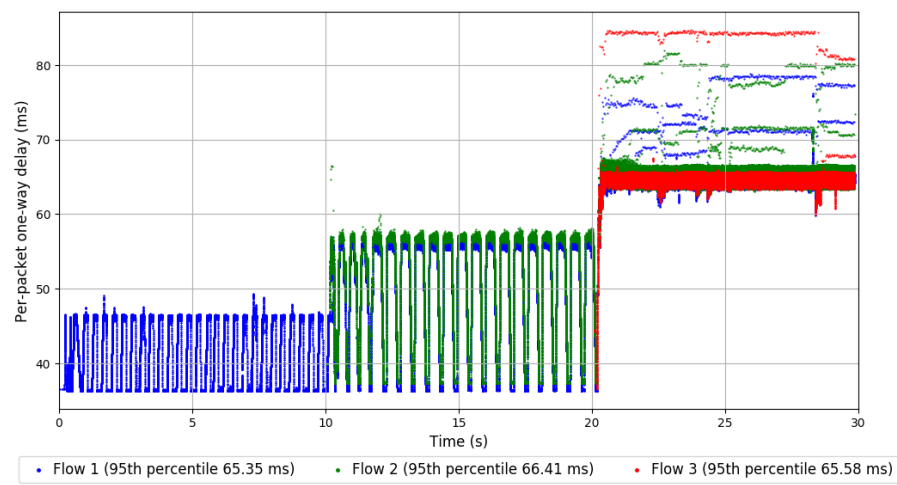
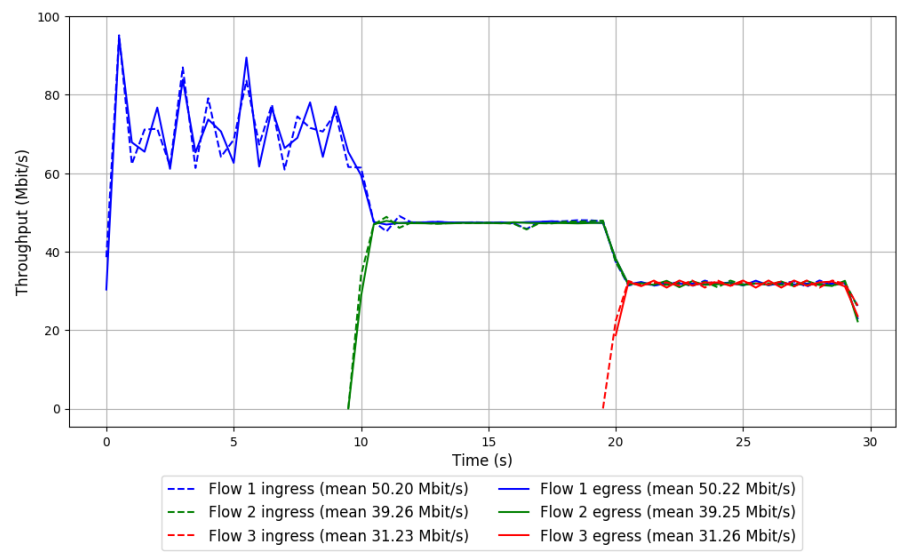
-- Flow 3:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 65.578 ms

Loss rate: 1.17%

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



Run 1: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 07:55:00 +0000

End at: Sat, 29 Jul 2017 07:55:30 +0000

Local clock offset: 0.701 ms

Remote clock offset: -0.416 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:08:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 83.211 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 56.38 Mbit/s

95th percentile per-packet one-way delay: 83.075 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 47.63 Mbit/s

95th percentile per-packet one-way delay: 60.730 ms

Loss rate: 0.57%

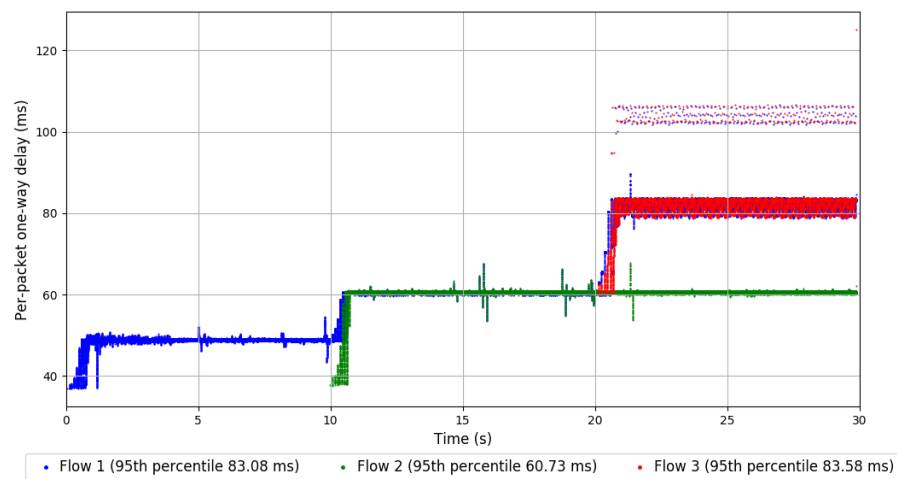
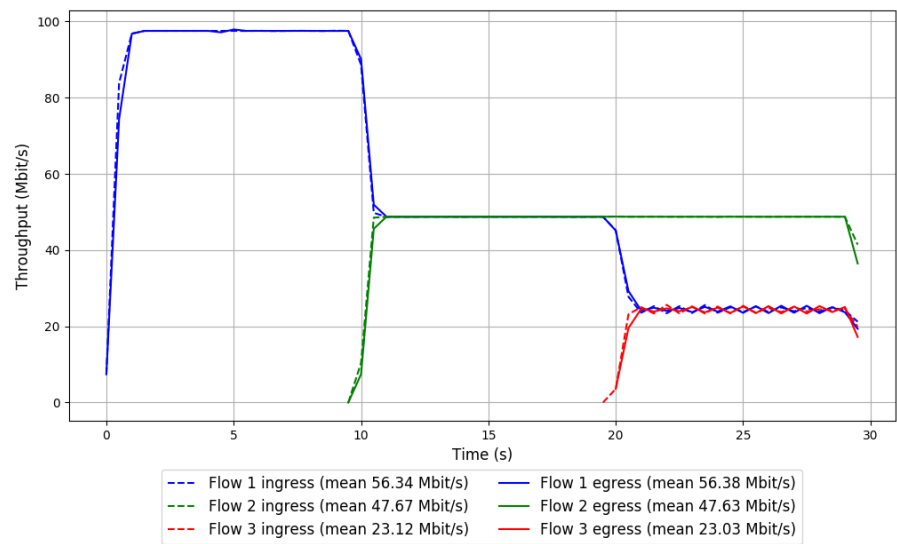
-- Flow 3:

Average throughput: 23.03 Mbit/s

95th percentile per-packet one-way delay: 83.584 ms

Loss rate: 1.37%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 08:16:01 +0000

End at: Sat, 29 Jul 2017 08:16:31 +0000

Local clock offset: 0.571 ms

Remote clock offset: -0.751 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:08:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 72.906 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 71.969 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 39.90 Mbit/s

95th percentile per-packet one-way delay: 73.214 ms

Loss rate: 0.78%

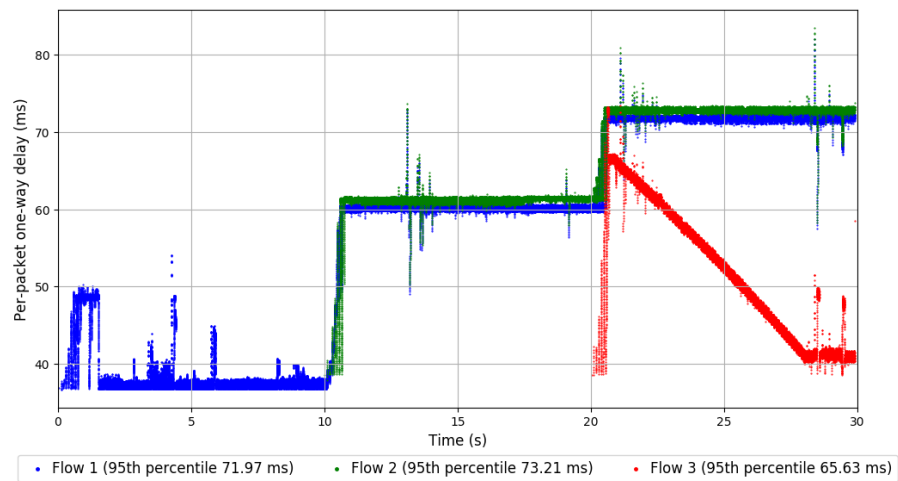
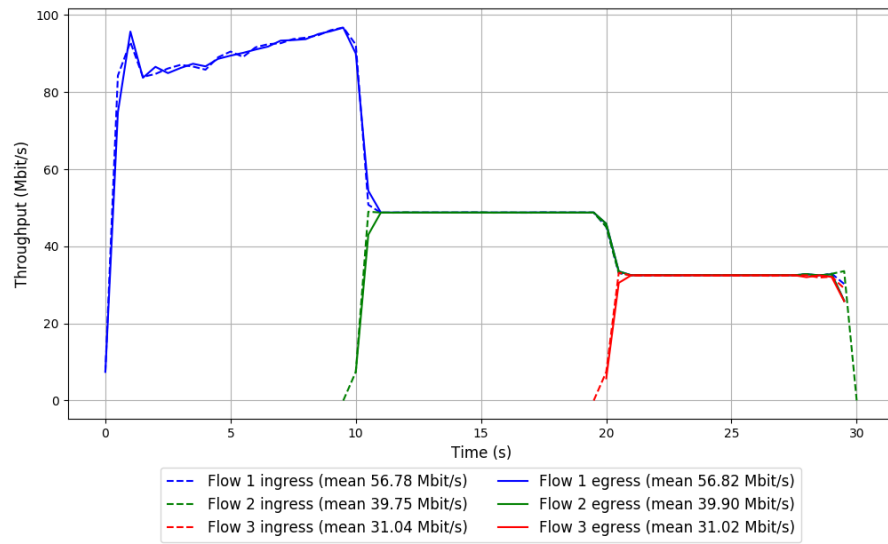
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 65.630 ms

Loss rate: 0.96%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 08:37:03 +0000

End at: Sat, 29 Jul 2017 08:37:33 +0000

Local clock offset: 0.624 ms

Remote clock offset: -2.675 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 85.159 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 56.58 Mbit/s

95th percentile per-packet one-way delay: 85.195 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 85.413 ms

Loss rate: 0.44%

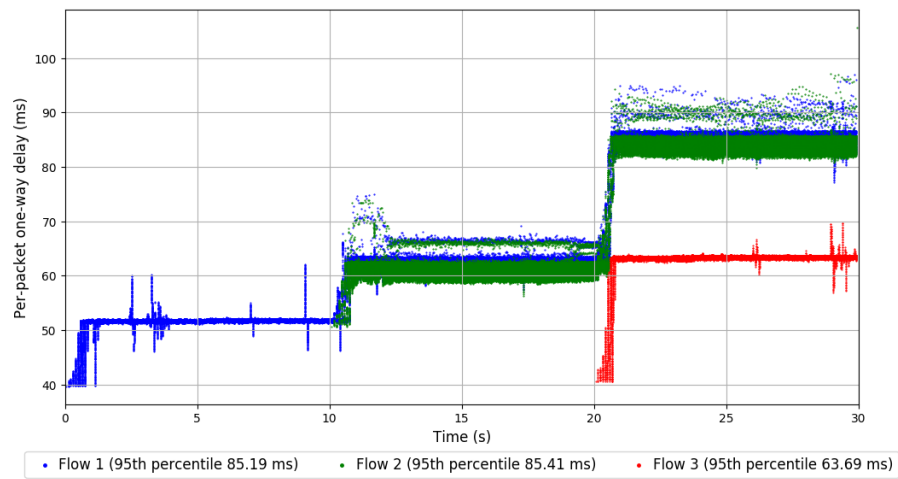
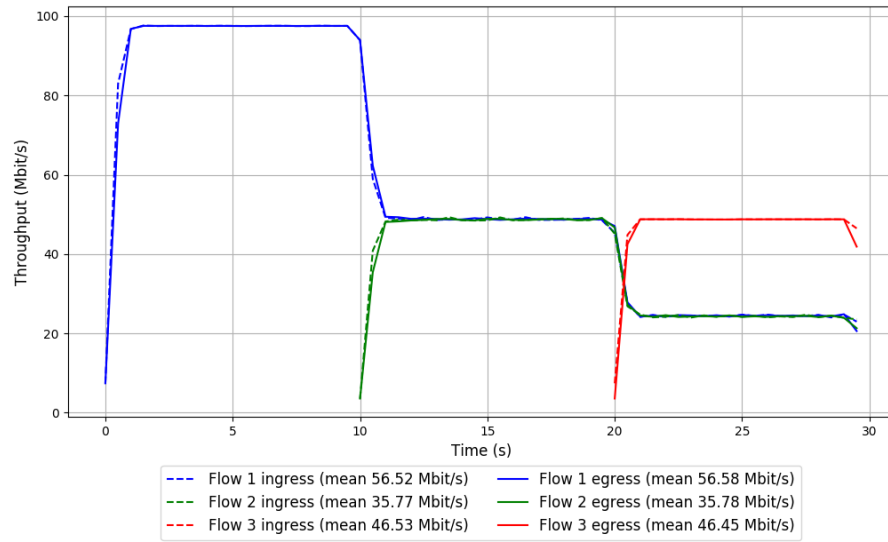
-- Flow 3:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 63.689 ms

Loss rate: 1.16%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 08:58:06 +0000

End at: Sat, 29 Jul 2017 08:58:36 +0000

Local clock offset: 0.502 ms

Remote clock offset: -0.505 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.71 Mbit/s

95th percentile per-packet one-way delay: 68.400 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 41.800 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 63.24 Mbit/s

95th percentile per-packet one-way delay: 68.047 ms

Loss rate: 0.40%

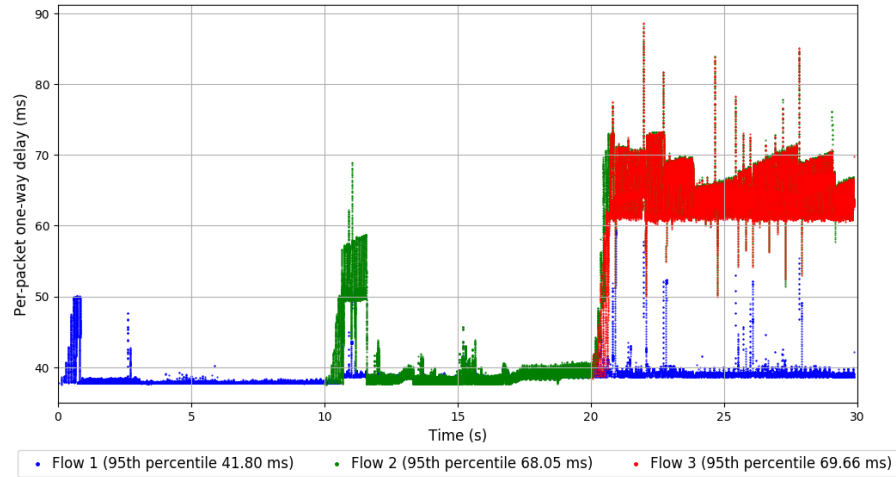
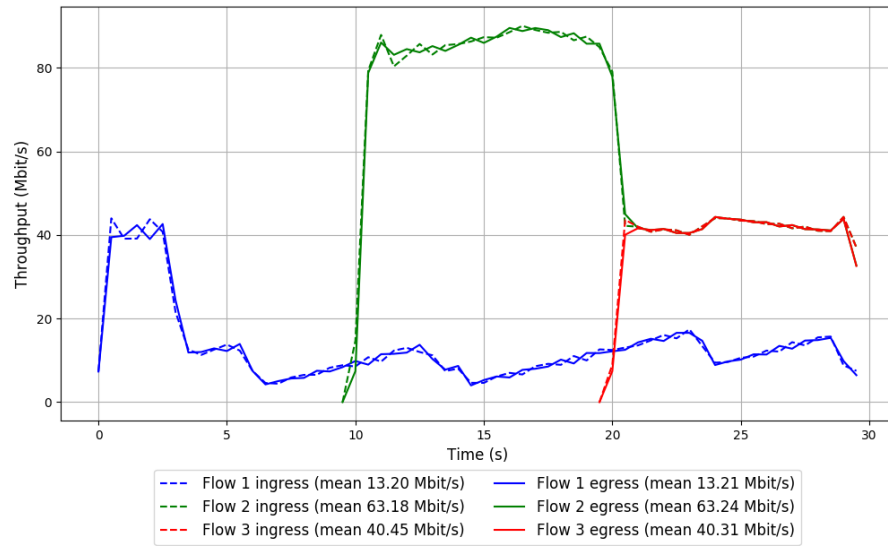
-- Flow 3:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 69.656 ms

Loss rate: 1.25%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 09:19:04 +0000

End at: Sat, 29 Jul 2017 09:19:34 +0000

Local clock offset: 0.518 ms

Remote clock offset: -0.214 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 84.211 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 61.339 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 84.345 ms

Loss rate: 0.89%

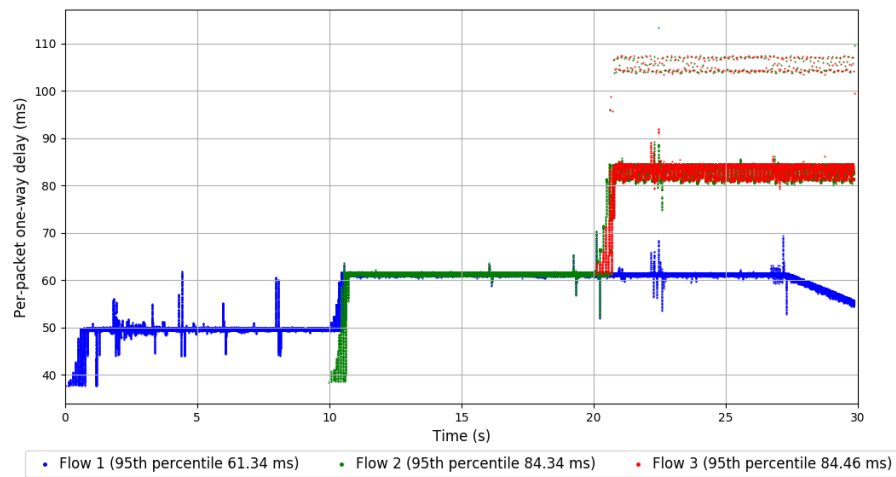
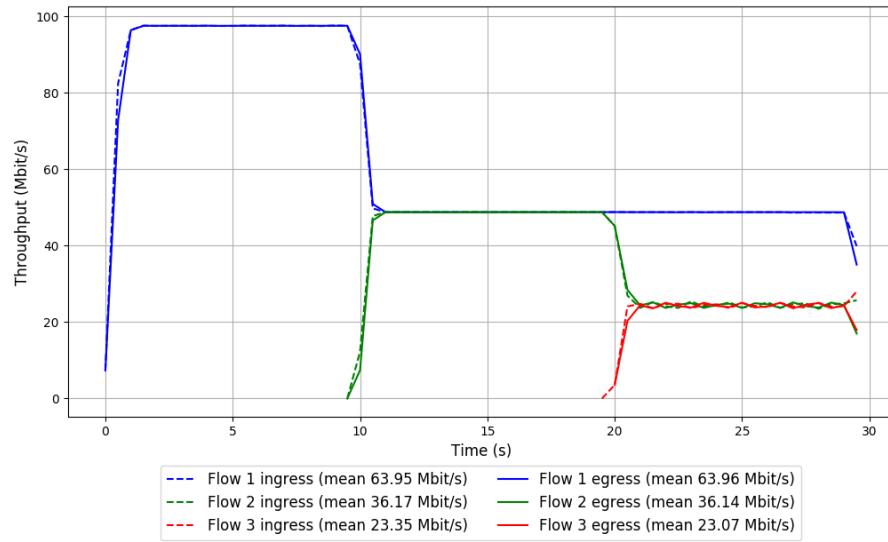
-- Flow 3:

Average throughput: 23.07 Mbit/s

95th percentile per-packet one-way delay: 84.461 ms

Loss rate: 3.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 09:40:04 +0000

End at: Sat, 29 Jul 2017 09:40:34 +0000

Local clock offset: 0.392 ms

Remote clock offset: 0.306 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 62.579 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 74.94 Mbit/s

95th percentile per-packet one-way delay: 61.748 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 38.434 ms

Loss rate: 0.27%

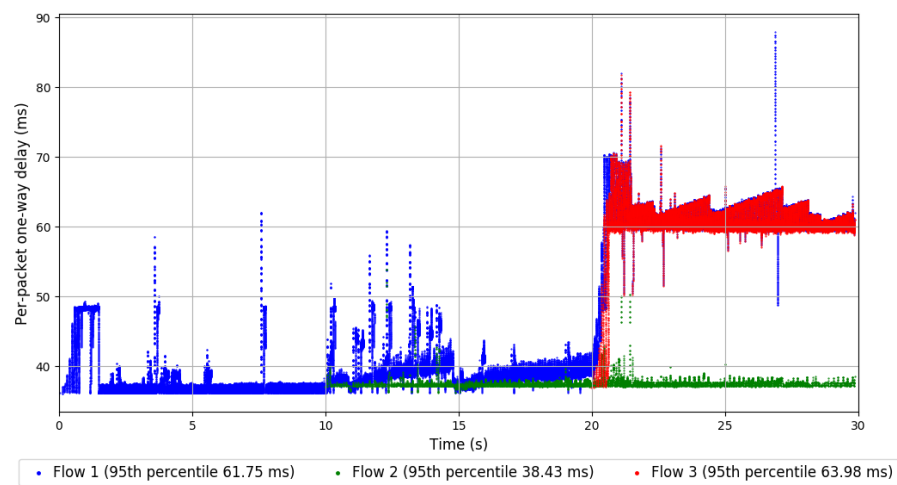
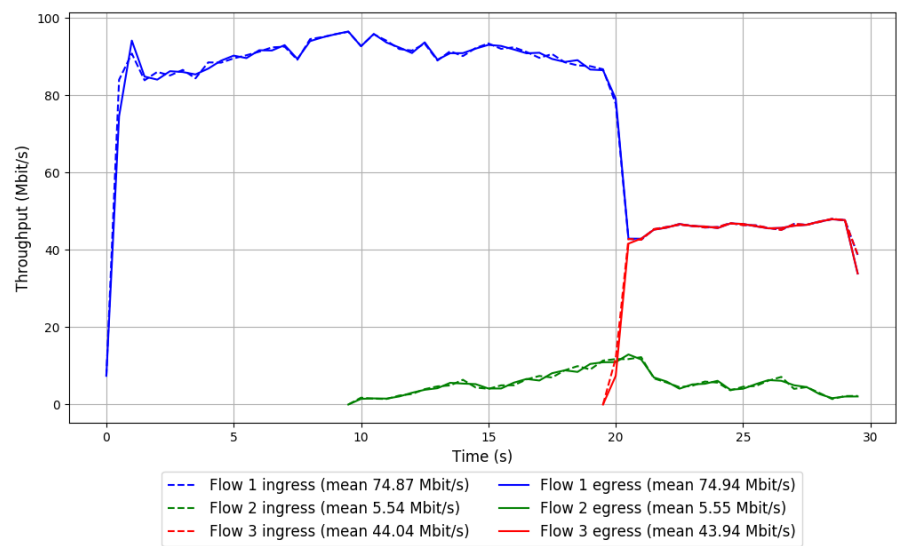
-- Flow 3:

Average throughput: 43.94 Mbit/s

95th percentile per-packet one-way delay: 63.980 ms

Loss rate: 1.20%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 10:01:06 +0000

End at: Sat, 29 Jul 2017 10:01:36 +0000

Local clock offset: 0.398 ms

Remote clock offset: -0.119 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 83.724 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 54.02 Mbit/s

95th percentile per-packet one-way delay: 83.711 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 47.63 Mbit/s

95th percentile per-packet one-way delay: 60.507 ms

Loss rate: 0.63%

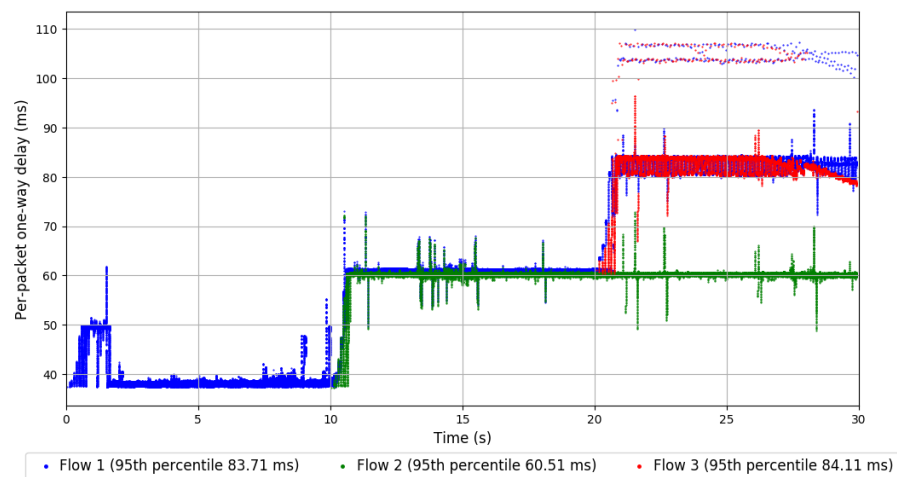
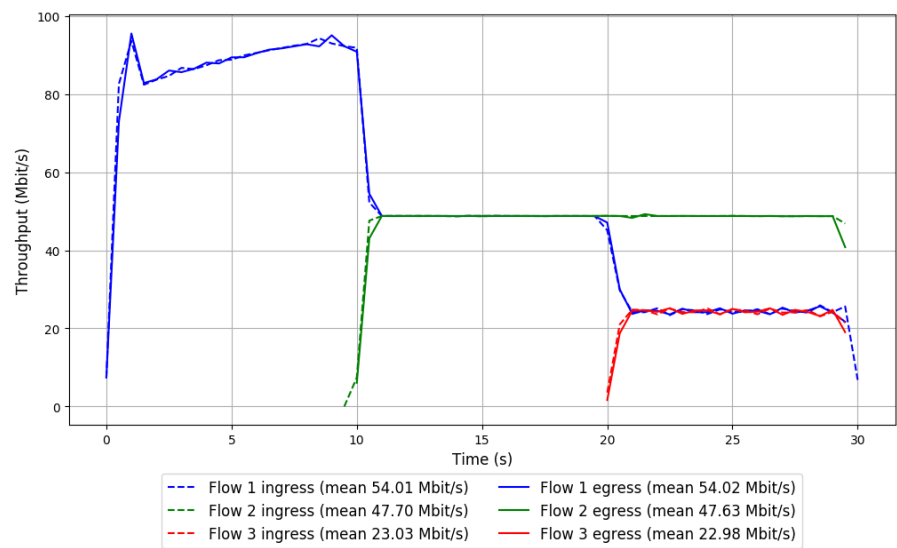
-- Flow 3:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 84.114 ms

Loss rate: 1.32%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 10:22:19 +0000

End at: Sat, 29 Jul 2017 10:22:49 +0000

Local clock offset: 0.391 ms

Remote clock offset: -2.341 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 62.453 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 75.97 Mbit/s

95th percentile per-packet one-way delay: 62.473 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 63.461 ms

Loss rate: 0.54%

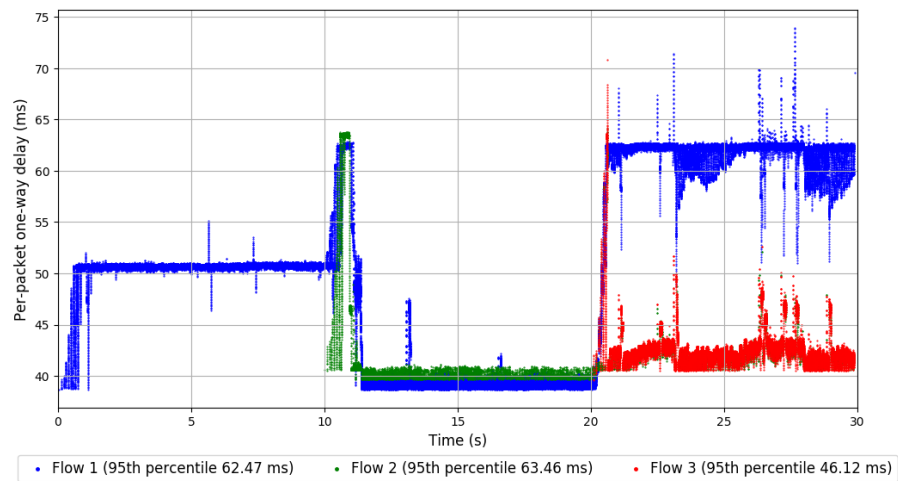
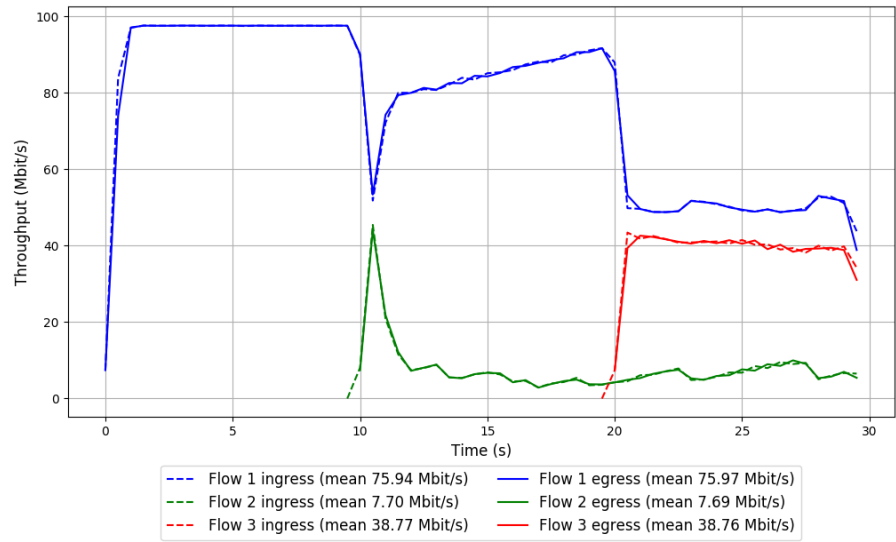
-- Flow 3:

Average throughput: 38.76 Mbit/s

95th percentile per-packet one-way delay: 46.118 ms

Loss rate: 0.90%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 10:43:22 +0000

End at: Sat, 29 Jul 2017 10:43:52 +0000

Local clock offset: 0.417 ms

Remote clock offset: -0.266 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 51.658 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 51.064 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 52.075 ms

Loss rate: 0.42%

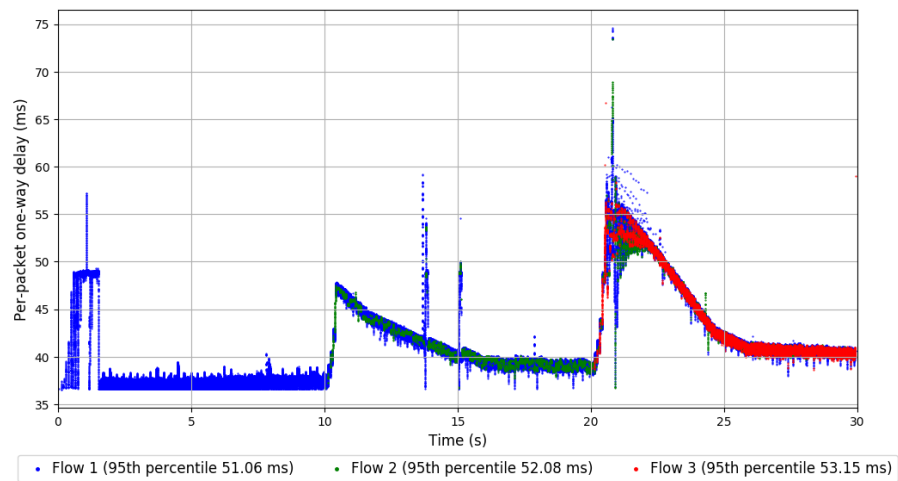
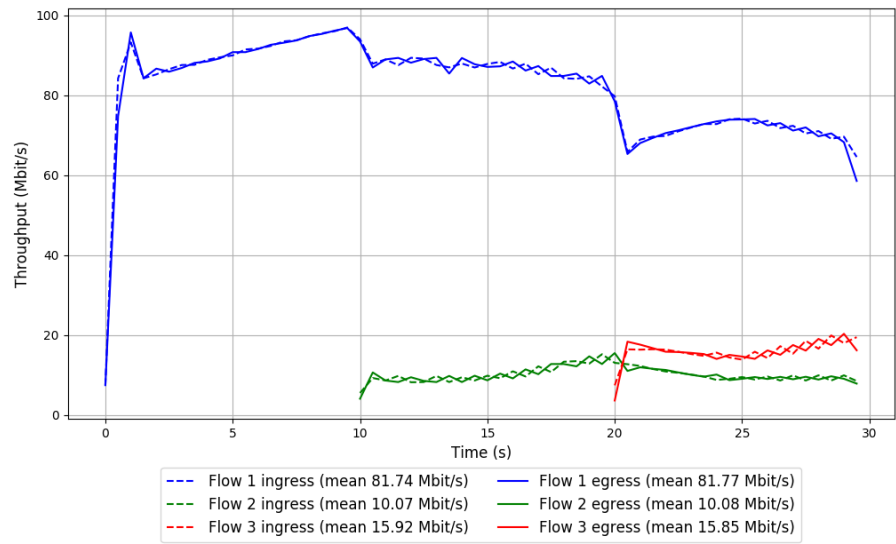
-- Flow 3:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 53.151 ms

Loss rate: 1.14%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: Sat, 29 Jul 2017 11:04:37 +0000

End at: Sat, 29 Jul 2017 11:05:07 +0000

Local clock offset: 0.46 ms

Remote clock offset: -0.301 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 72.060 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 58.79 Mbit/s

95th percentile per-packet one-way delay: 71.970 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 36.90 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 0.39%

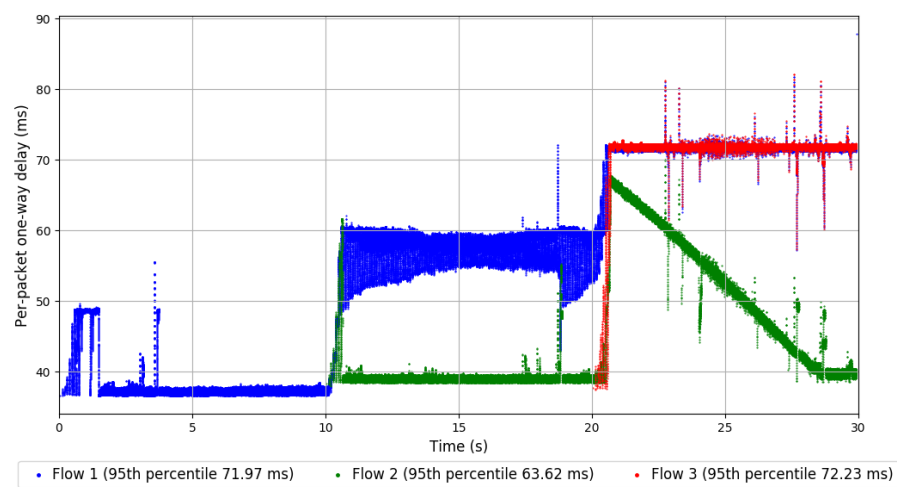
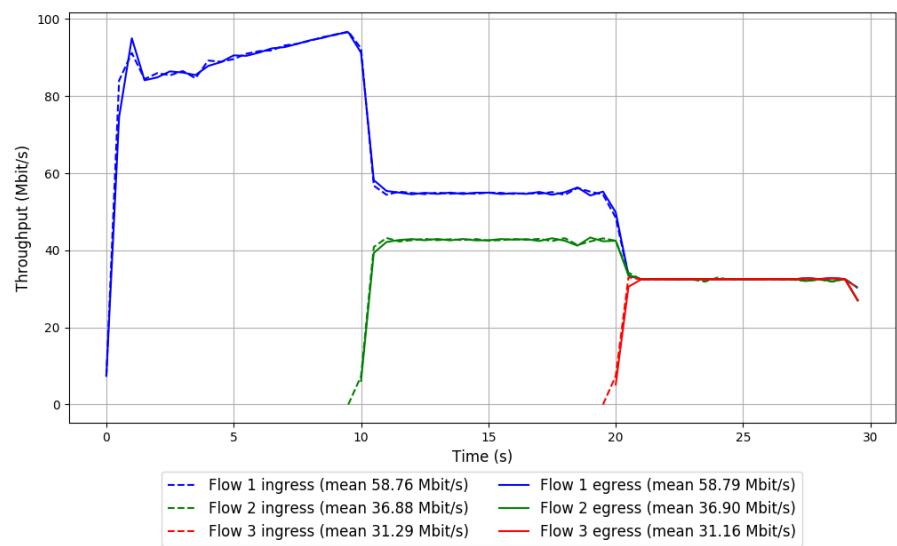
-- Flow 3:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 72.228 ms

Loss rate: 1.26%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Sat, 29 Jul 2017 07:49:20 +0000

End at: Sat, 29 Jul 2017 07:49:50 +0000

Local clock offset: 0.709 ms

Remote clock offset: -2.172 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:09:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.92 Mbit/s

95th percentile per-packet one-way delay: 74.335 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 51.16 Mbit/s

95th percentile per-packet one-way delay: 73.581 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 74.389 ms

Loss rate: 0.48%

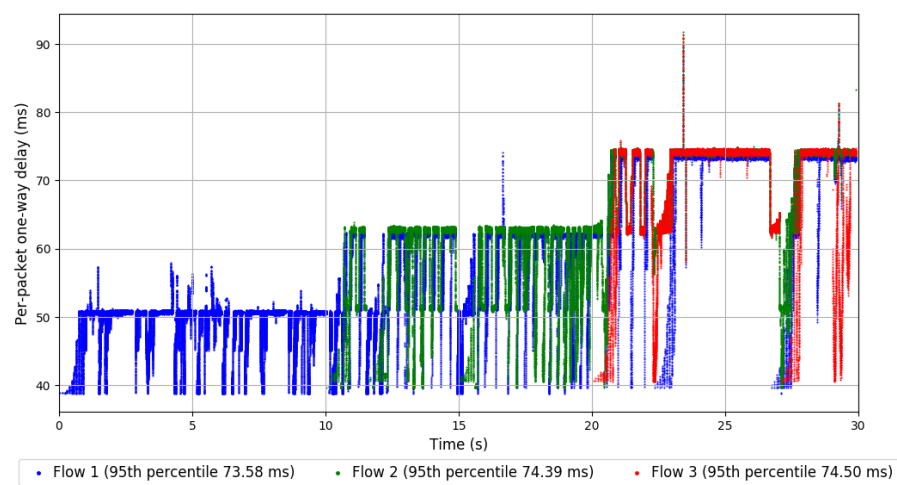
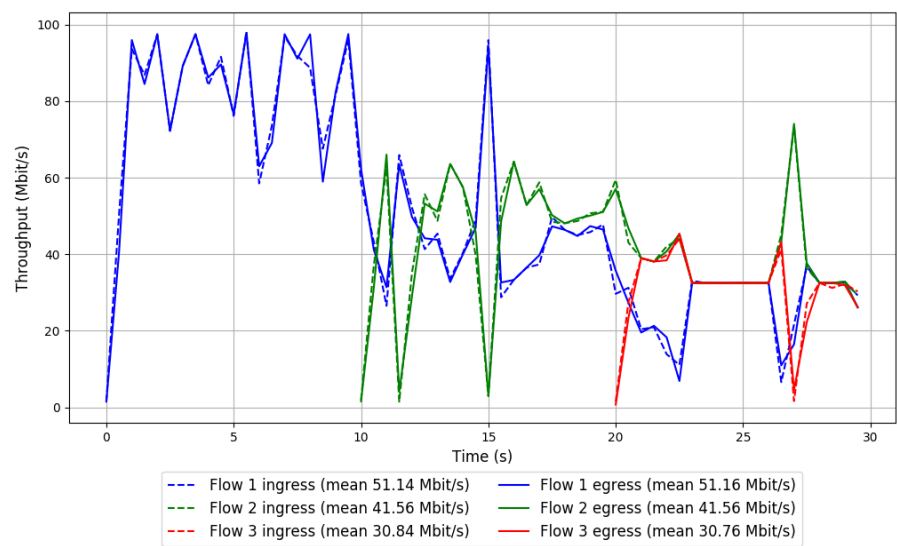
-- Flow 3:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 74.496 ms

Loss rate: 1.29%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Sat, 29 Jul 2017 08:10:22 +0000

End at: Sat, 29 Jul 2017 08:10:52 +0000

Local clock offset: 0.679 ms

Remote clock offset: -0.581 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.92 Mbit/s

95th percentile per-packet one-way delay: 80.604 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 55.12 Mbit/s

95th percentile per-packet one-way delay: 60.307 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 82.455 ms

Loss rate: 0.03%

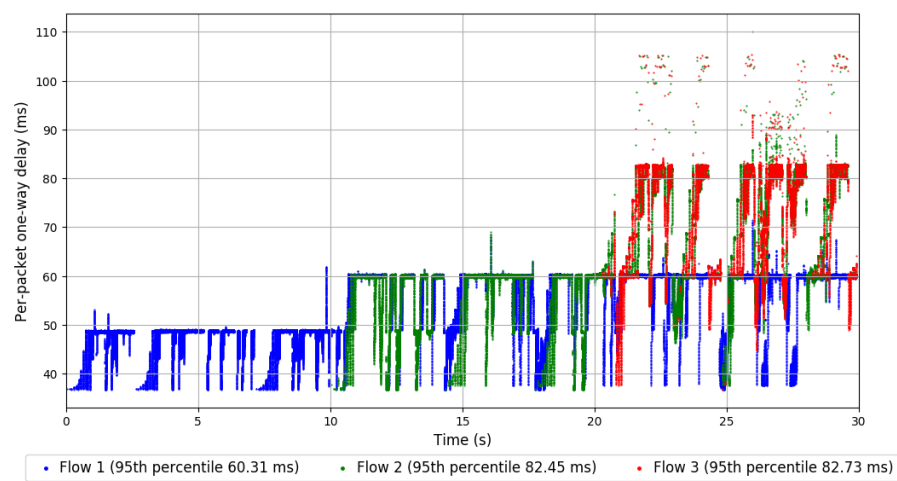
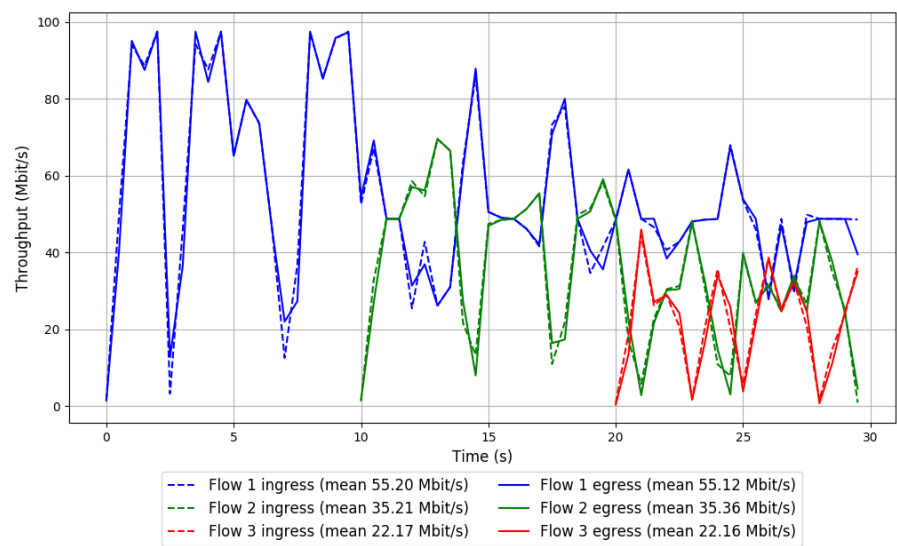
-- Flow 3:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 82.733 ms

Loss rate: 1.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Sat, 29 Jul 2017 08:31:26 +0000

End at: Sat, 29 Jul 2017 08:31:56 +0000

Local clock offset: 0.544 ms

Remote clock offset: -0.595 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 70.564 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 68.458 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 38.41 Mbit/s

95th percentile per-packet one-way delay: 70.847 ms

Loss rate: 0.49%

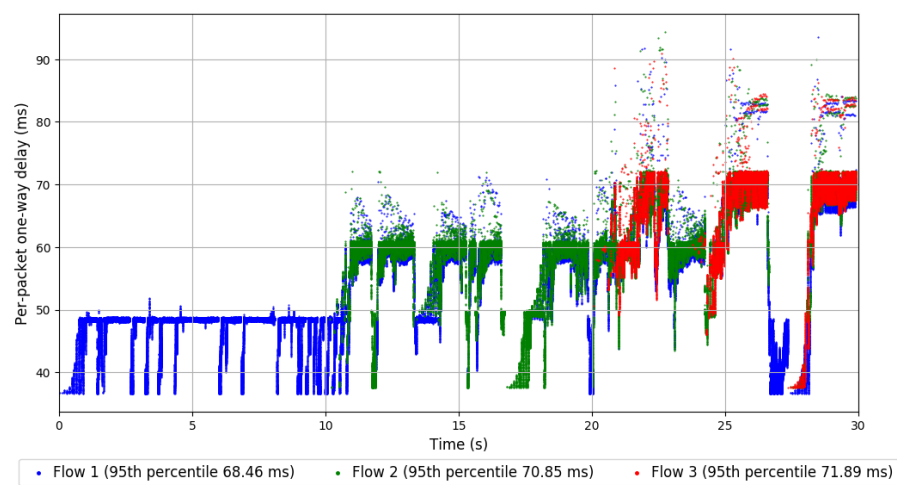
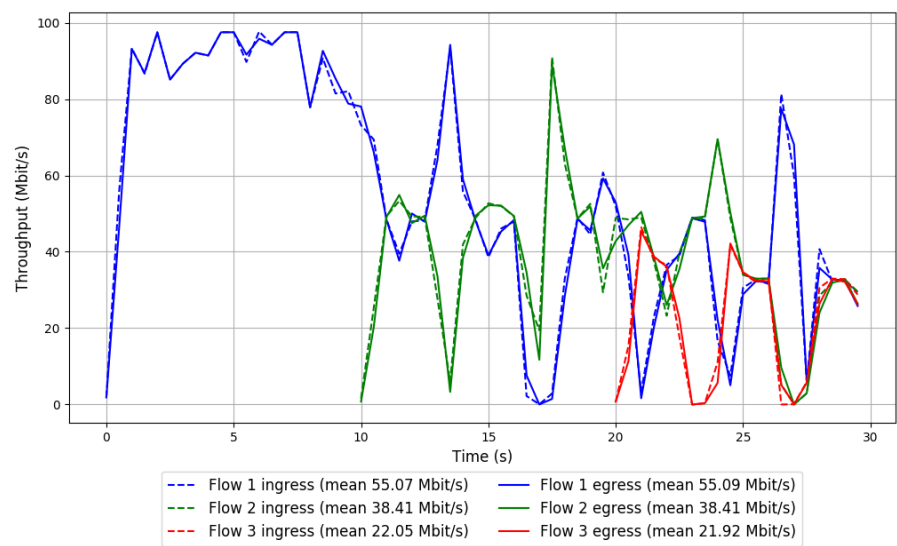
-- Flow 3:

Average throughput: 21.92 Mbit/s

95th percentile per-packet one-way delay: 71.893 ms

Loss rate: 1.76%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Sat, 29 Jul 2017 08:52:25 +0000

End at: Sat, 29 Jul 2017 08:52:55 +0000

Local clock offset: 0.481 ms

Remote clock offset: -0.619 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 74.319 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 60.155 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 82.686 ms

Loss rate: 0.67%

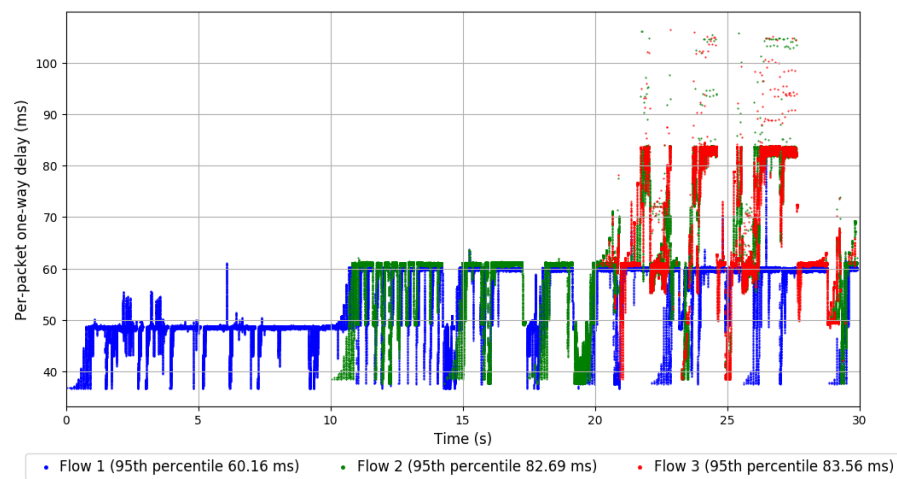
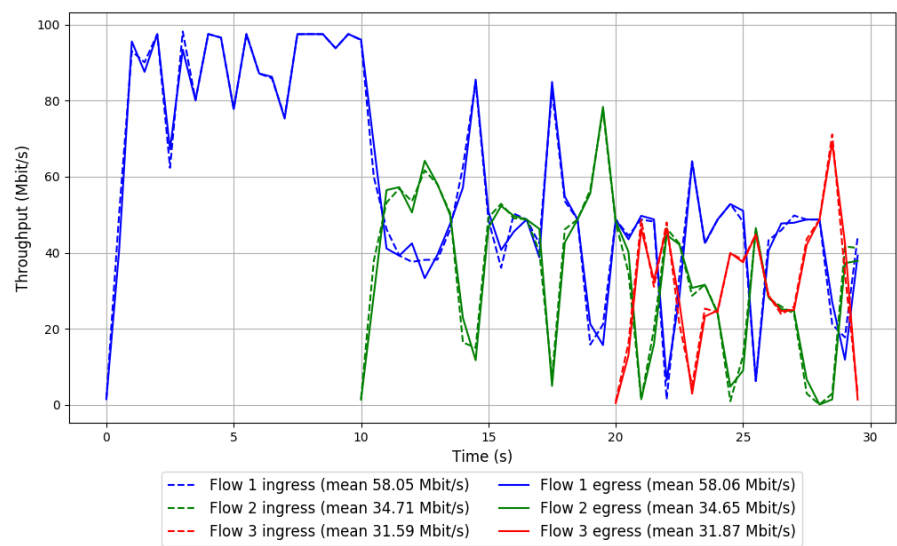
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 83.556 ms

Loss rate: 0.25%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Sat, 29 Jul 2017 09:13:25 +0000

End at: Sat, 29 Jul 2017 09:13:55 +0000

Local clock offset: 0.522 ms

Remote clock offset: -0.329 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.58 Mbit/s

95th percentile per-packet one-way delay: 72.626 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 72.563 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 72.632 ms

Loss rate: 0.73%

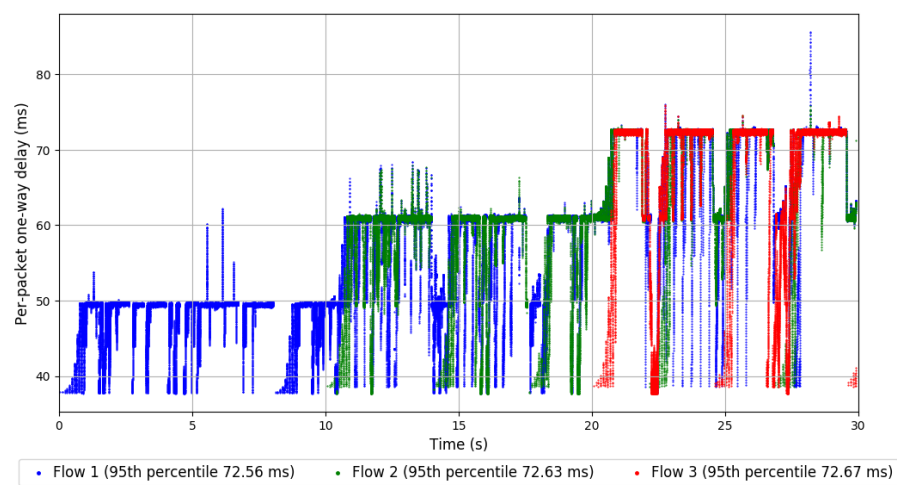
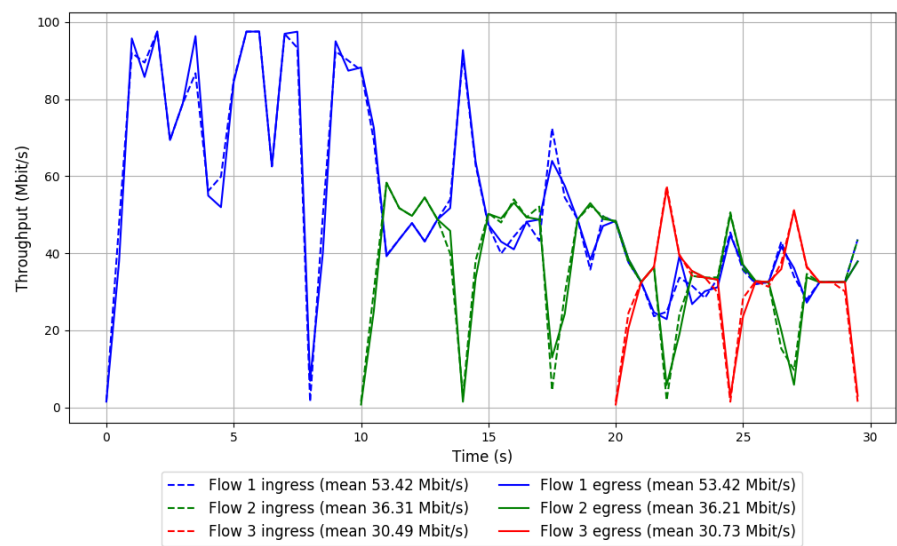
-- Flow 3:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 72.672 ms

Loss rate: 0.13%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: Sat, 29 Jul 2017 09:34:25 +0000

End at: Sat, 29 Jul 2017 09:34:55 +0000

Local clock offset: 0.532 ms

Remote clock offset: -2.204 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.67 Mbit/s

95th percentile per-packet one-way delay: 74.520 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 51.97 Mbit/s

95th percentile per-packet one-way delay: 73.519 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 40.78 Mbit/s

95th percentile per-packet one-way delay: 73.781 ms

Loss rate: 0.64%

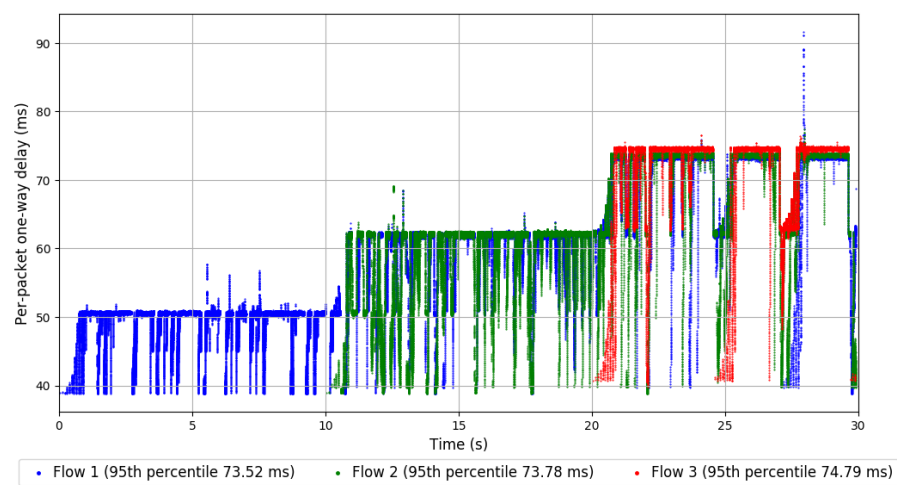
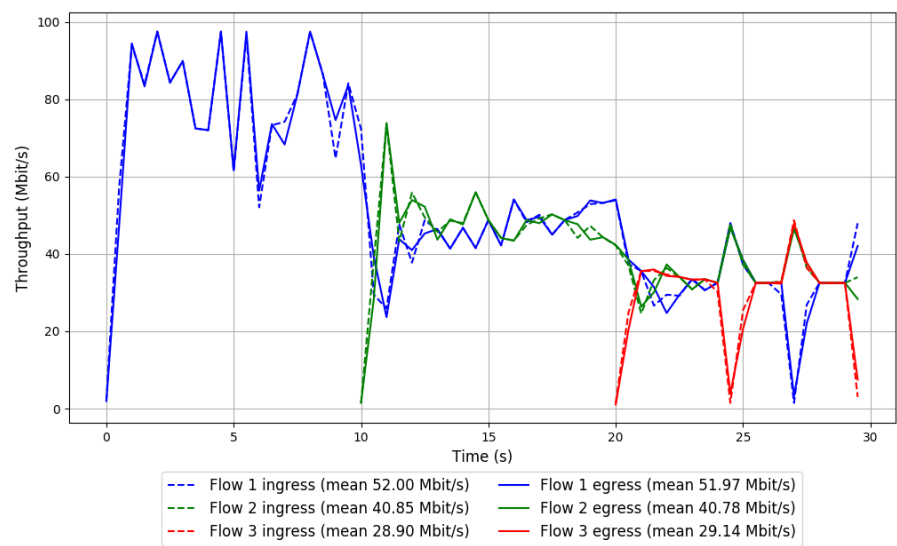
-- Flow 3:

Average throughput: 29.14 Mbit/s

95th percentile per-packet one-way delay: 74.787 ms

Loss rate: 0.07%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Sat, 29 Jul 2017 09:55:27 +0000

End at: Sat, 29 Jul 2017 09:55:57 +0000

Local clock offset: 0.406 ms

Remote clock offset: -2.303 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.98 Mbit/s

95th percentile per-packet one-way delay: 85.295 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 45.68 Mbit/s

95th percentile per-packet one-way delay: 85.206 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 50.18 Mbit/s

95th percentile per-packet one-way delay: 62.381 ms

Loss rate: 0.54%

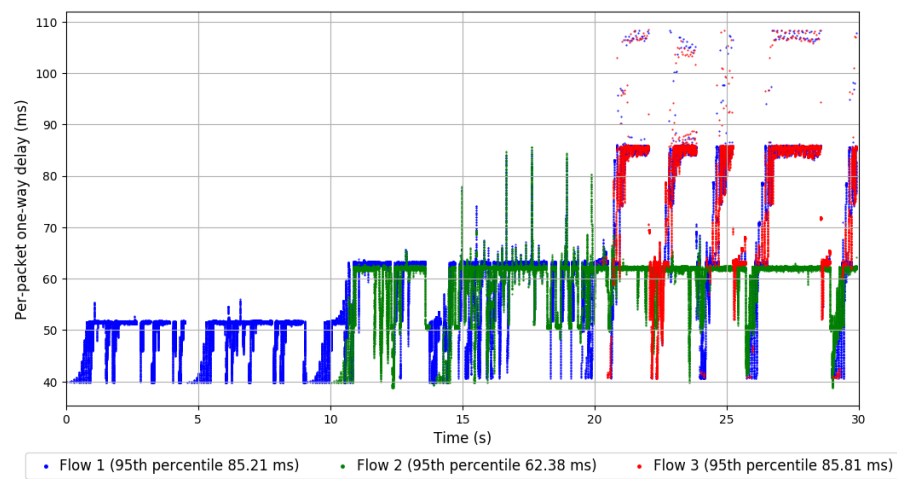
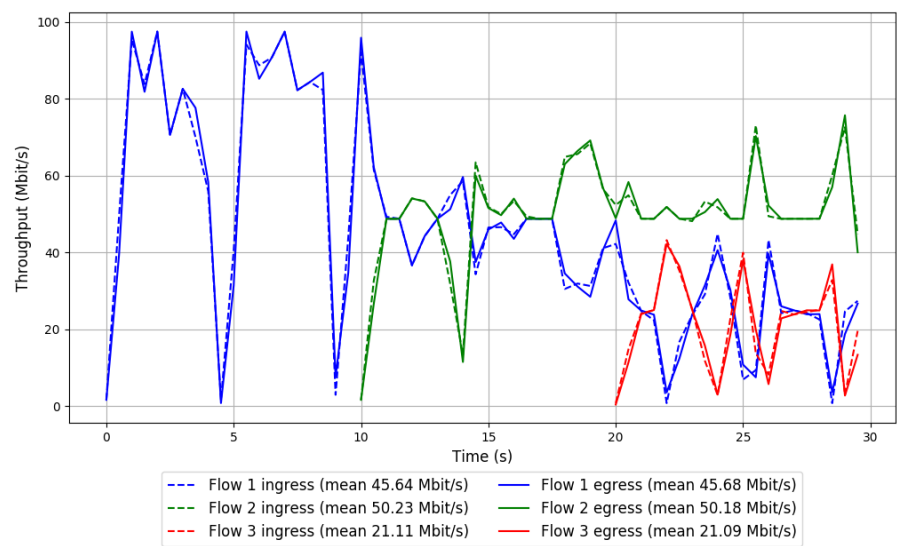
-- Flow 3:

Average throughput: 21.09 Mbit/s

95th percentile per-packet one-way delay: 85.806 ms

Loss rate: 1.55%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Sat, 29 Jul 2017 10:16:31 +0000

End at: Sat, 29 Jul 2017 10:17:01 +0000

Local clock offset: 0.396 ms

Remote clock offset: -2.24 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 83.358 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 53.98 Mbit/s

95th percentile per-packet one-way delay: 83.158 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 62.230 ms

Loss rate: 0.64%

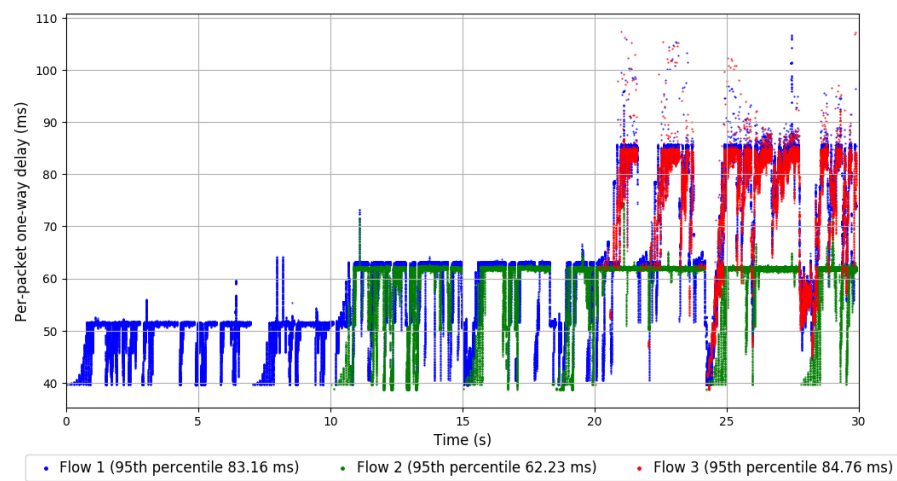
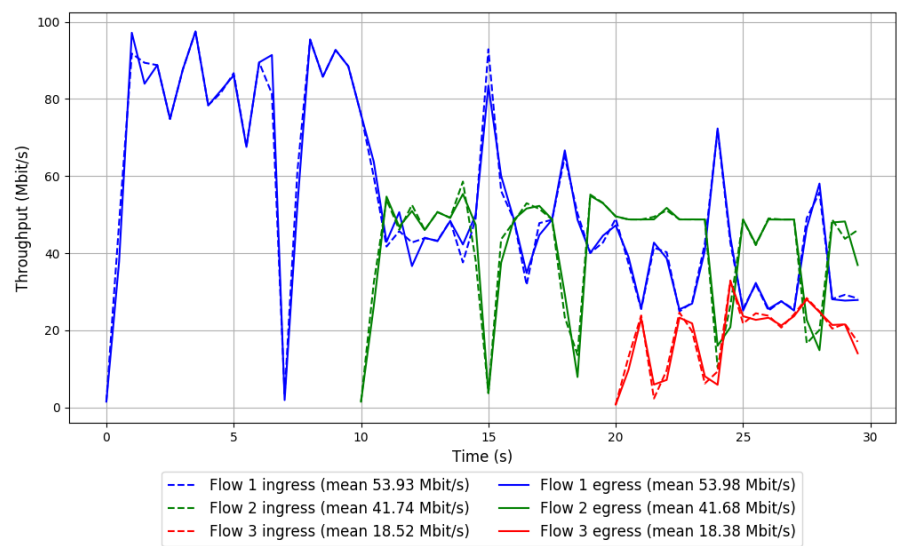
-- Flow 3:

Average throughput: 18.38 Mbit/s

95th percentile per-packet one-way delay: 84.762 ms

Loss rate: 1.95%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: Sat, 29 Jul 2017 10:37:43 +0000

End at: Sat, 29 Jul 2017 10:38:13 +0000

Local clock offset: 0.389 ms

Remote clock offset: -2.364 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.79 Mbit/s

95th percentile per-packet one-way delay: 79.806 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 54.46 Mbit/s

95th percentile per-packet one-way delay: 63.123 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 82.648 ms

Loss rate: 0.58%

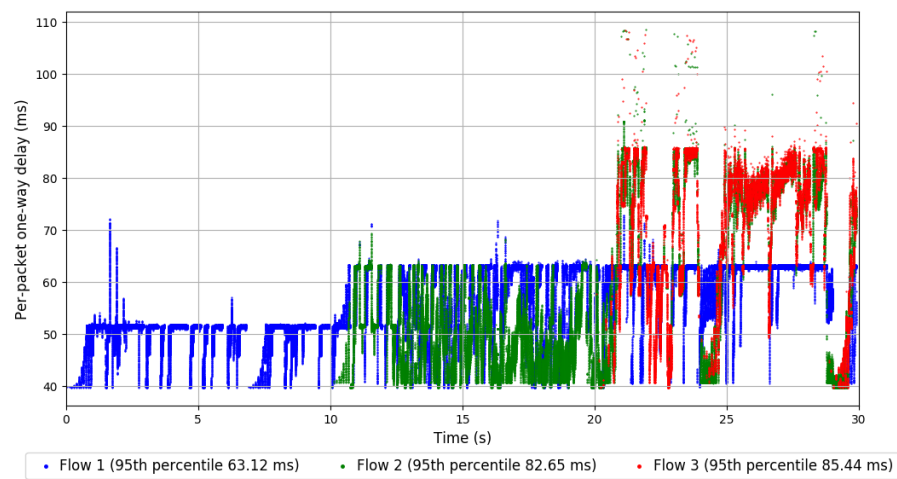
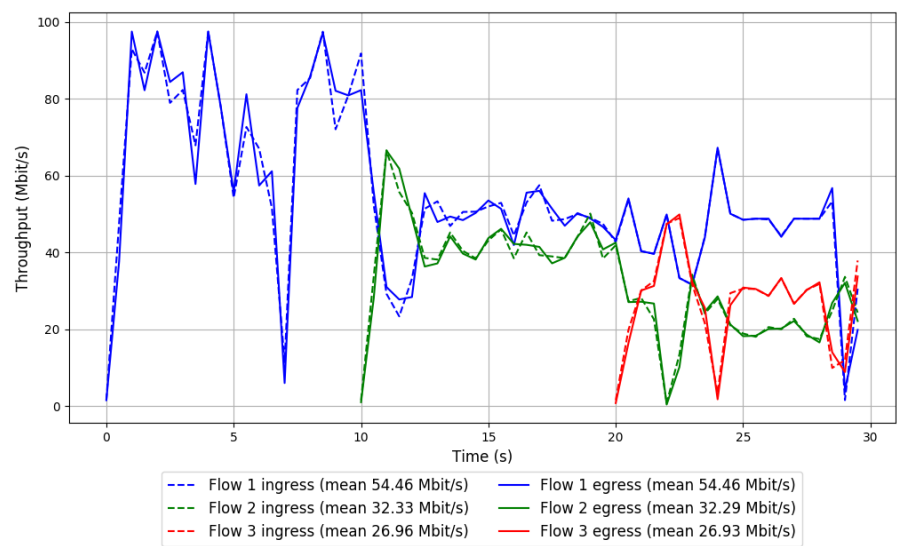
-- Flow 3:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 85.444 ms

Loss rate: 1.35%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Sat, 29 Jul 2017 10:58:55 +0000

End at: Sat, 29 Jul 2017 10:59:25 +0000

Local clock offset: 0.458 ms

Remote clock offset: -0.213 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.81 Mbit/s

95th percentile per-packet one-way delay: 71.481 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 54.60 Mbit/s

95th percentile per-packet one-way delay: 71.423 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 71.371 ms

Loss rate: 0.51%

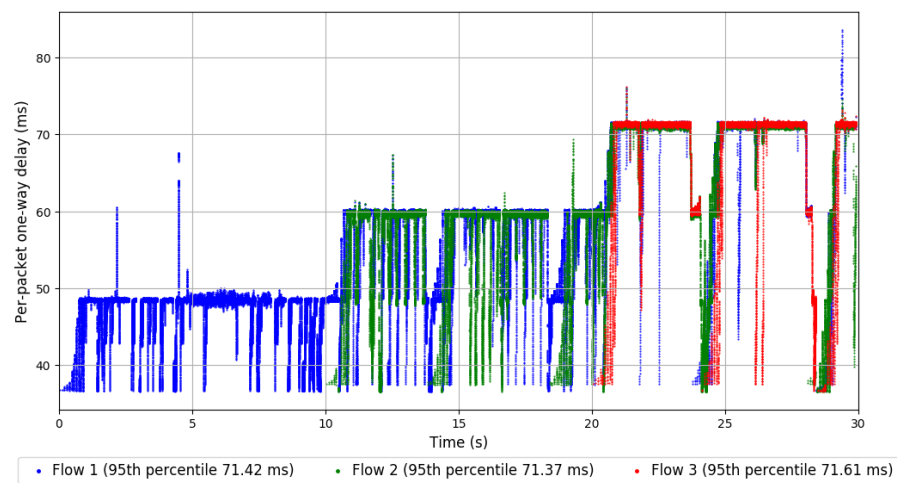
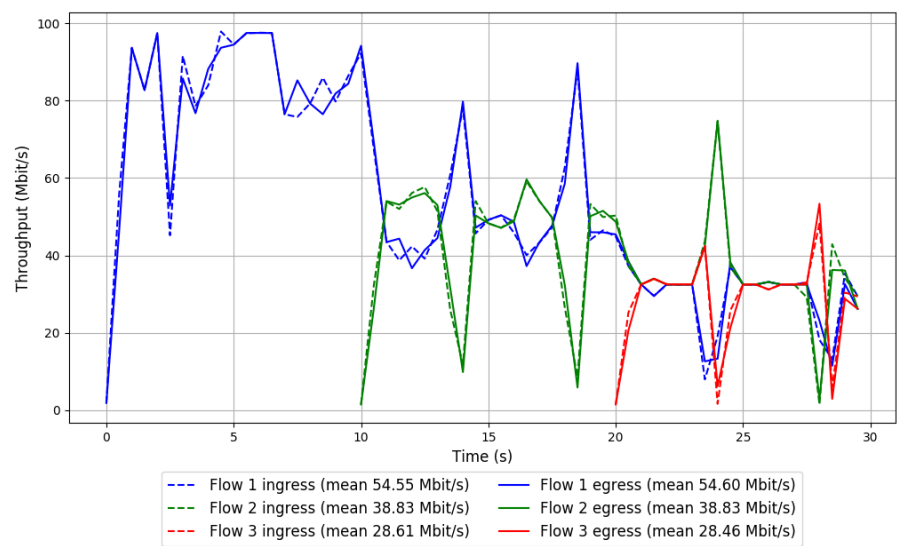
-- Flow 3:

Average throughput: 28.46 Mbit/s

95th percentile per-packet one-way delay: 71.607 ms

Loss rate: 1.38%

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 07:50:48 +0000

End at: Sat, 29 Jul 2017 07:51:18 +0000

Local clock offset: 0.63 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 38.683 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 38.519 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 38.663 ms

Loss rate: 0.51%

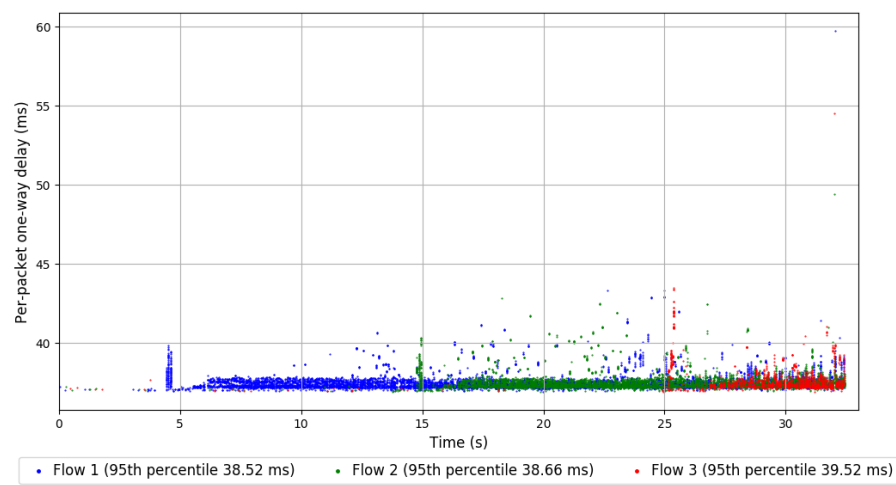
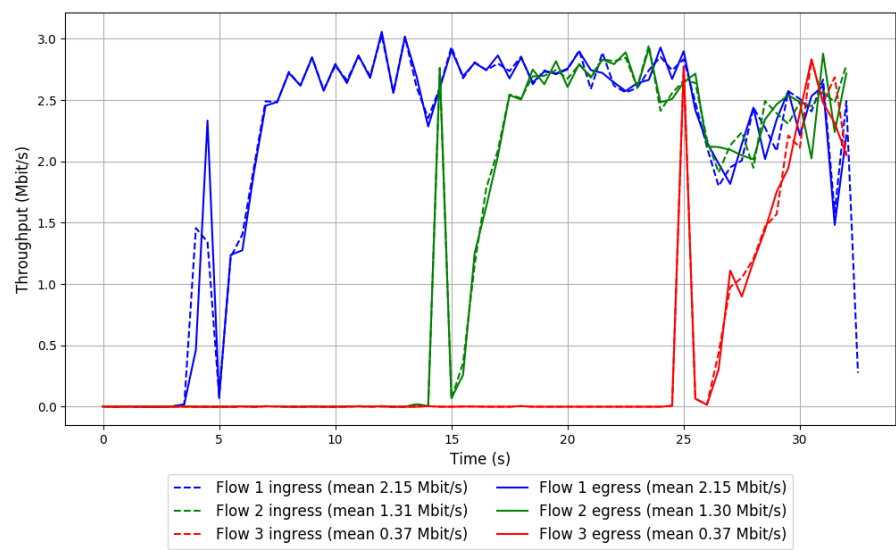
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 39.525 ms

Loss rate: 1.57%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 08:11:48 +0000

End at: Sat, 29 Jul 2017 08:12:18 +0000

Local clock offset: 0.585 ms

Remote clock offset: -0.714 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 38.541 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 38.265 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 38.981 ms

Loss rate: 0.00%

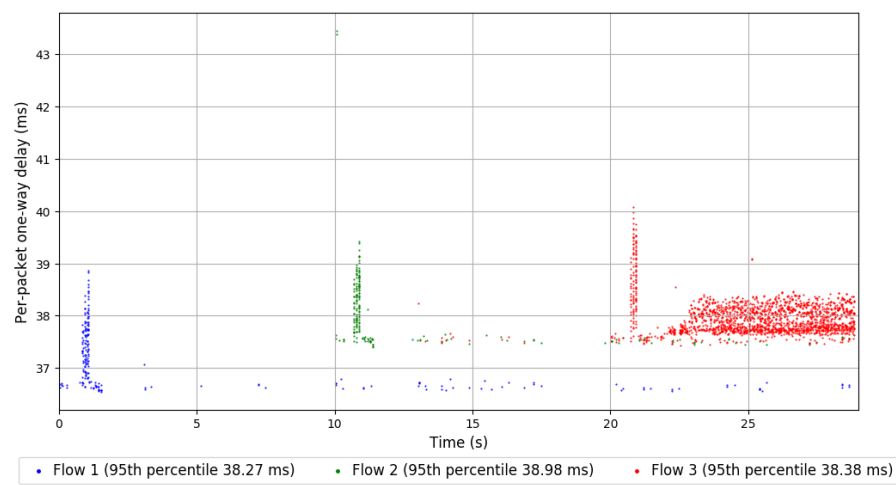
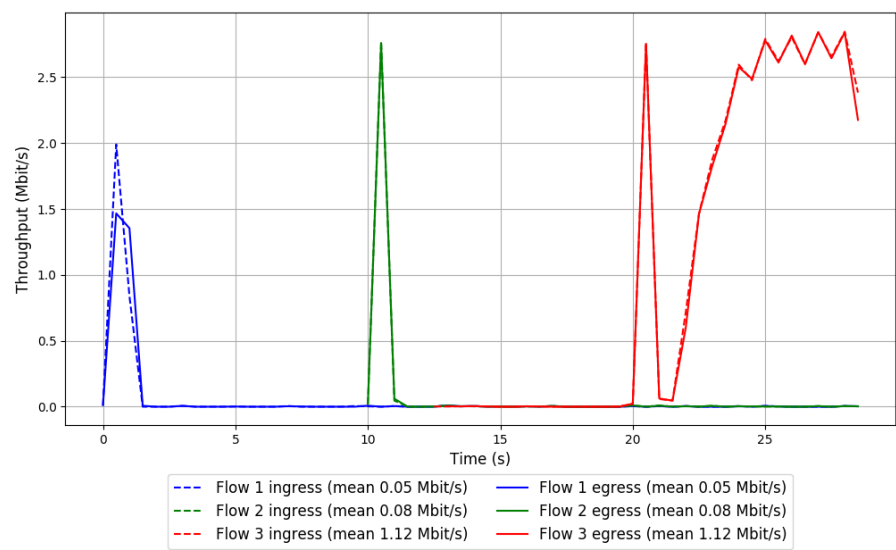
-- Flow 3:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 38.383 ms

Loss rate: 1.21%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

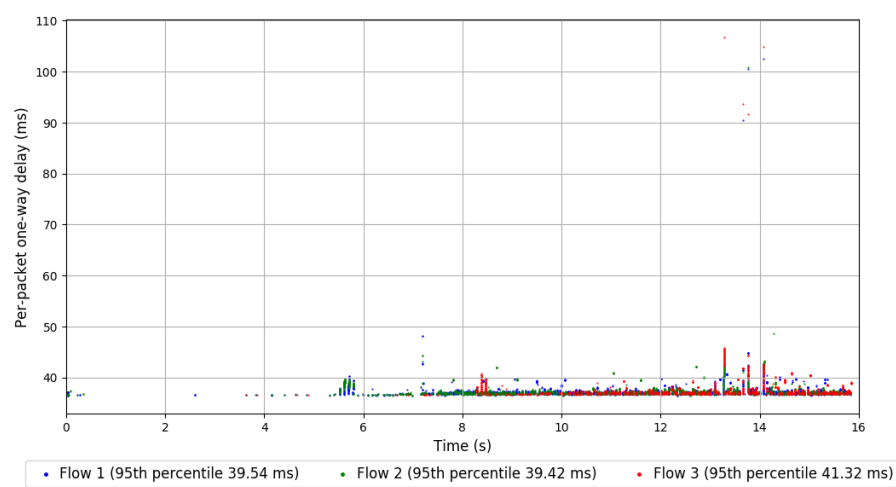
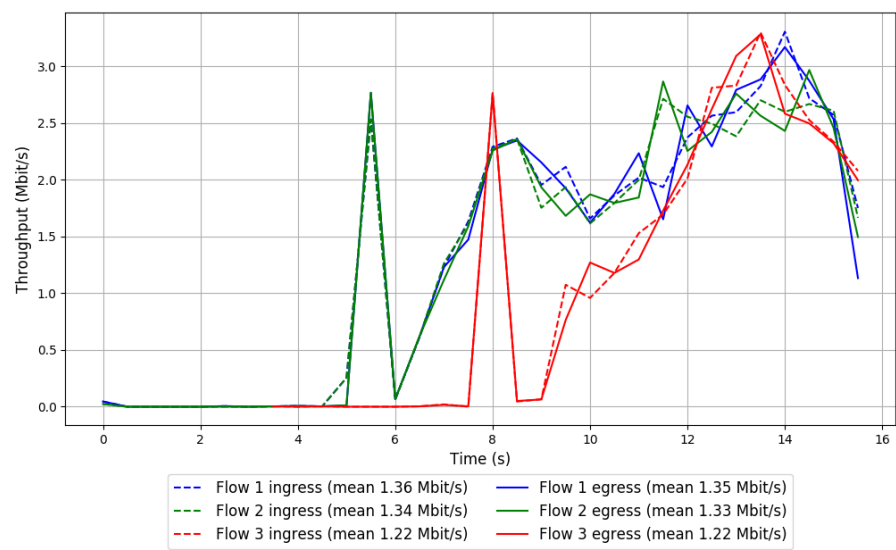
Start at: Sat, 29 Jul 2017 08:32:52 +0000

End at: Sat, 29 Jul 2017 08:33:22 +0000

Local clock offset: 0.601 ms

Remote clock offset: -0.632 ms

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 08:53:52 +0000

End at: Sat, 29 Jul 2017 08:54:22 +0000

Local clock offset: 0.582 ms

Remote clock offset: -2.532 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 40.900 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 40.850 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 40.382 ms

Loss rate: 1.00%

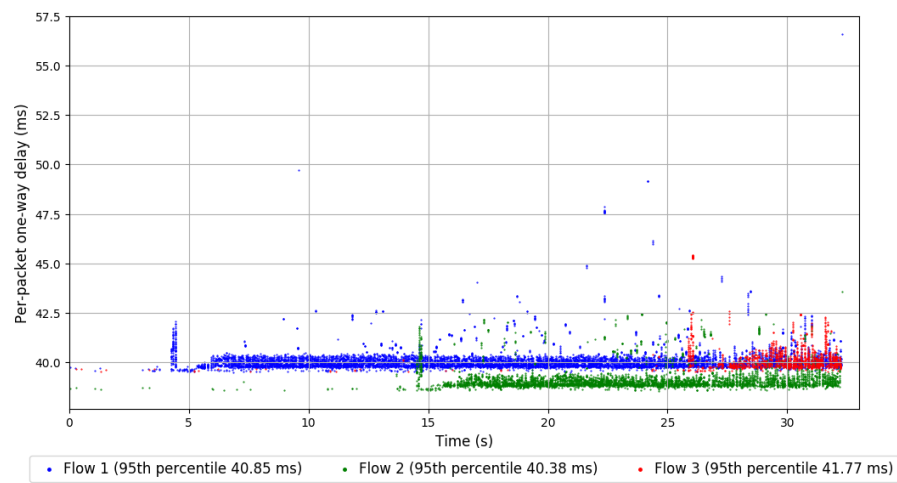
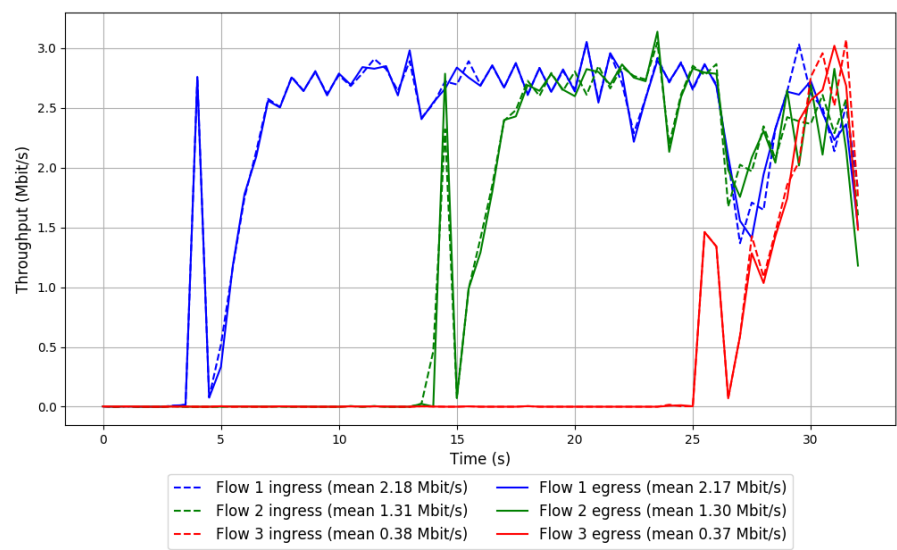
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 41.775 ms

Loss rate: 2.73%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 09:14:51 +0000

End at: Sat, 29 Jul 2017 09:15:21 +0000

Local clock offset: 0.534 ms

Remote clock offset: -2.289 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 40.935 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 40.892 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 41.152 ms

Loss rate: 0.26%

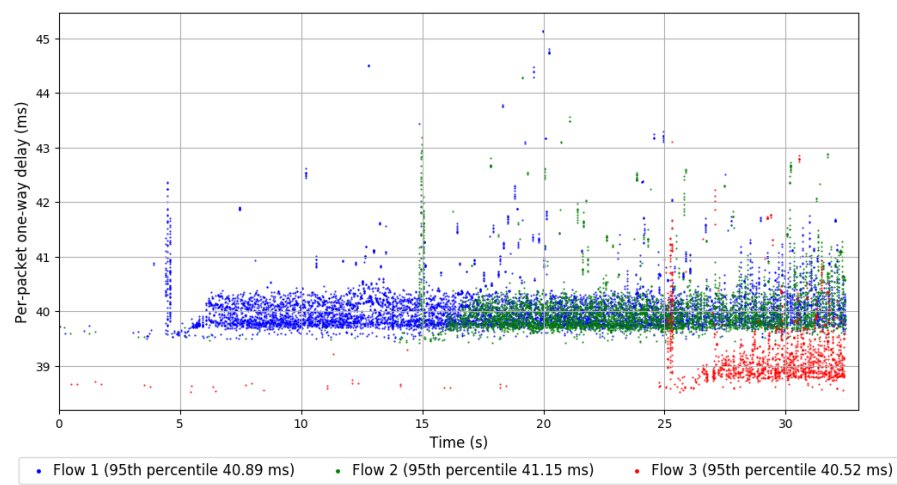
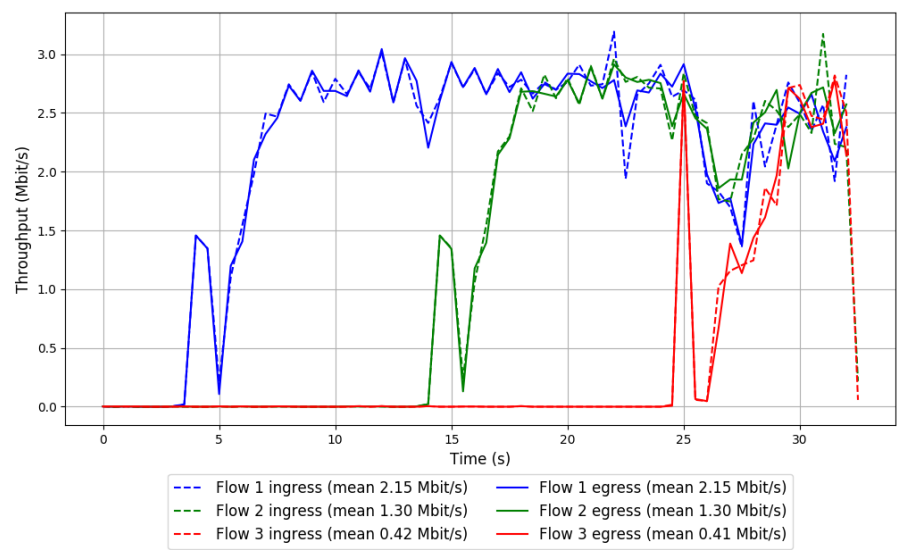
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 40.517 ms

Loss rate: 2.64%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 09:35:52 +0000

End at: Sat, 29 Jul 2017 09:36:22 +0000

Local clock offset: 0.46 ms

Remote clock offset: -2.188 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 41.003 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 41.216 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 40.685 ms

Loss rate: 0.54%

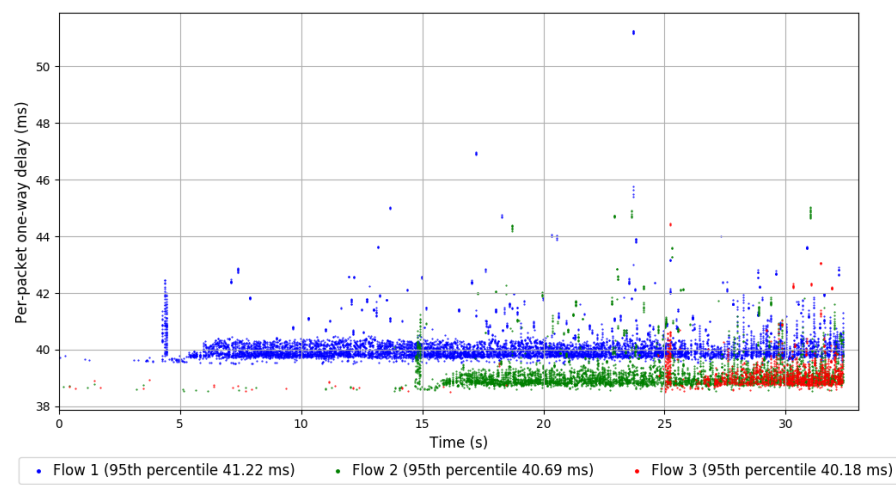
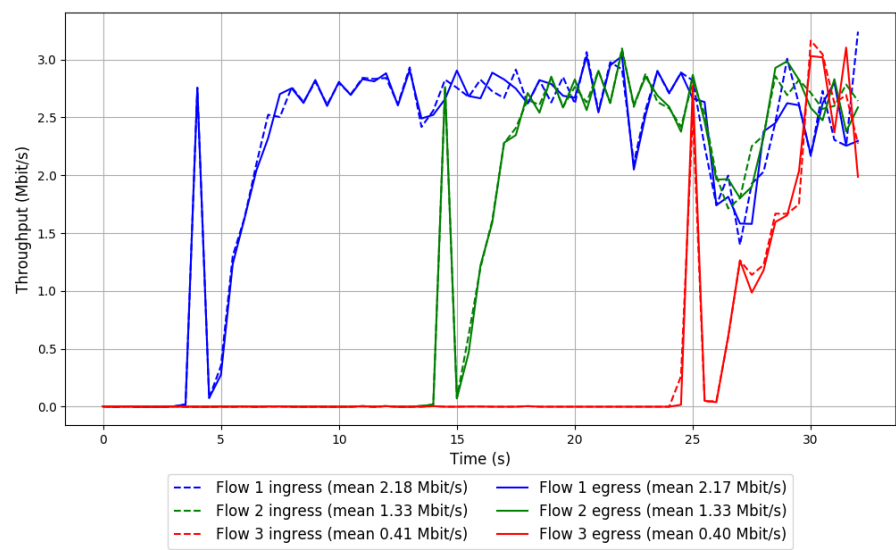
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 40.181 ms

Loss rate: 1.11%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 09:56:53 +0000

End at: Sat, 29 Jul 2017 09:57:23 +0000

Local clock offset: 0.381 ms

Remote clock offset: -2.181 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 40.251 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 39.706 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 39.983 ms

Loss rate: 0.55%

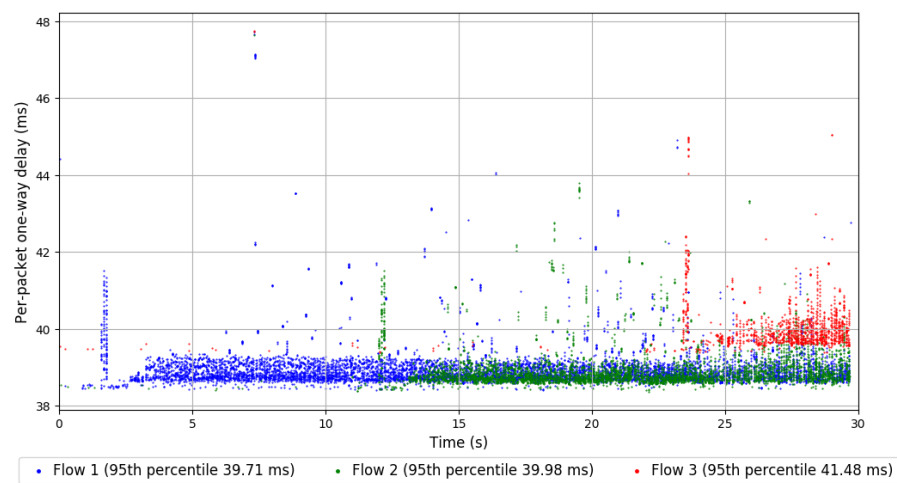
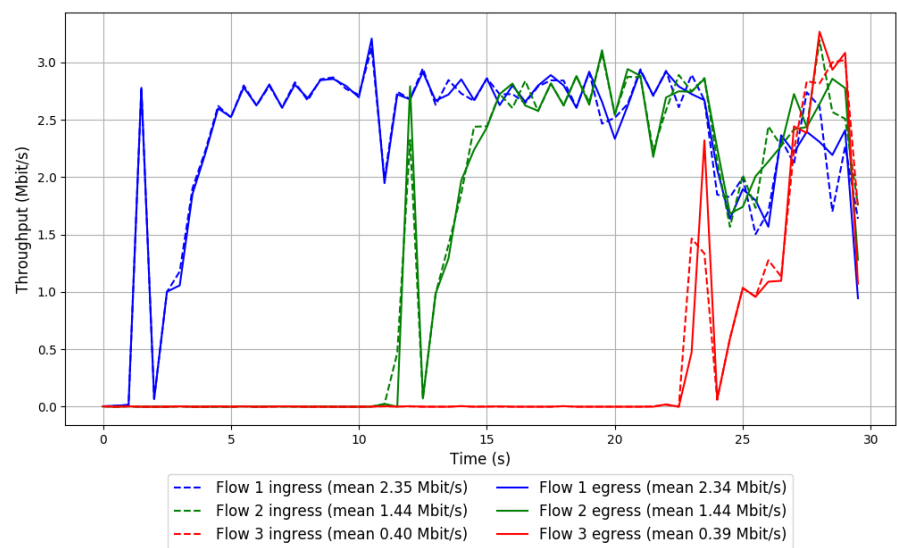
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 41.482 ms

Loss rate: 2.88%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 10:17:59 +0000

End at: Sat, 29 Jul 2017 10:18:29 +0000

Local clock offset: 0.384 ms

Remote clock offset: -0.252 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 39.109 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 39.021 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 39.305 ms

Loss rate: 0.54%

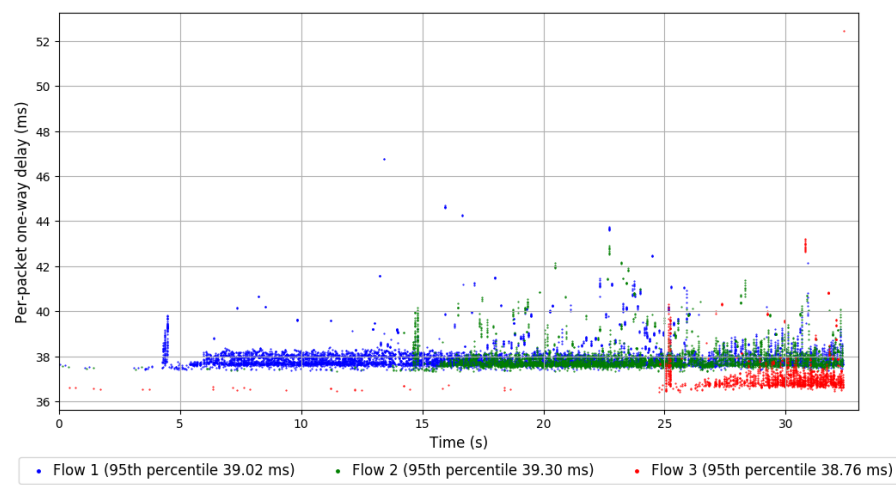
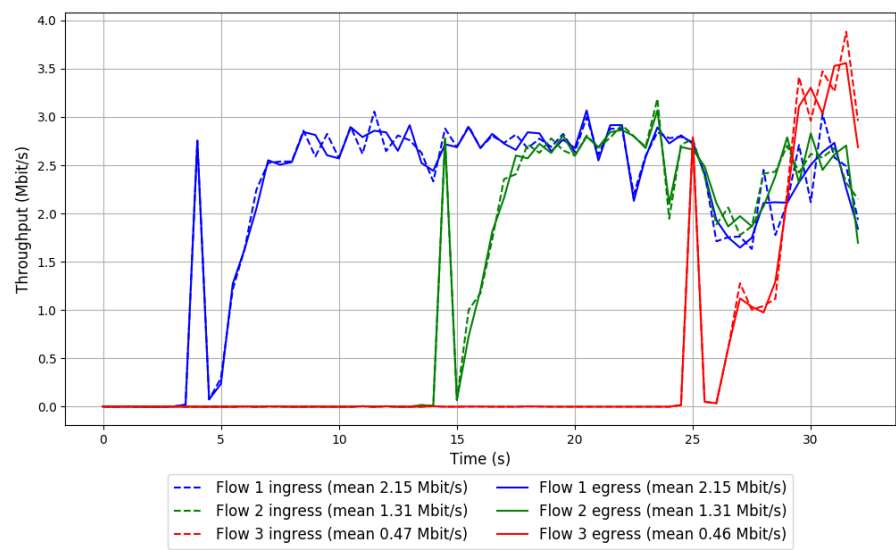
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 38.756 ms

Loss rate: 2.82%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 10:39:10 +0000

End at: Sat, 29 Jul 2017 10:39:40 +0000

Local clock offset: 0.484 ms

Remote clock offset: -0.383 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 39.020 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 38.805 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 39.320 ms

Loss rate: 0.52%

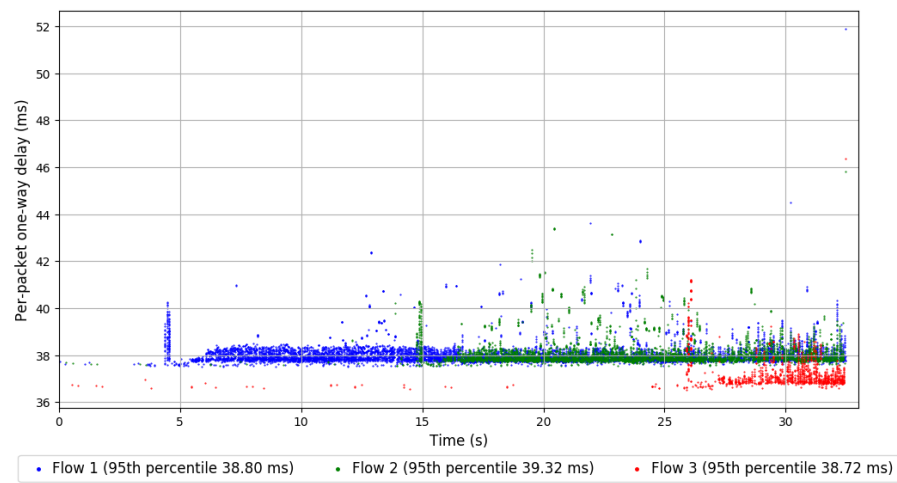
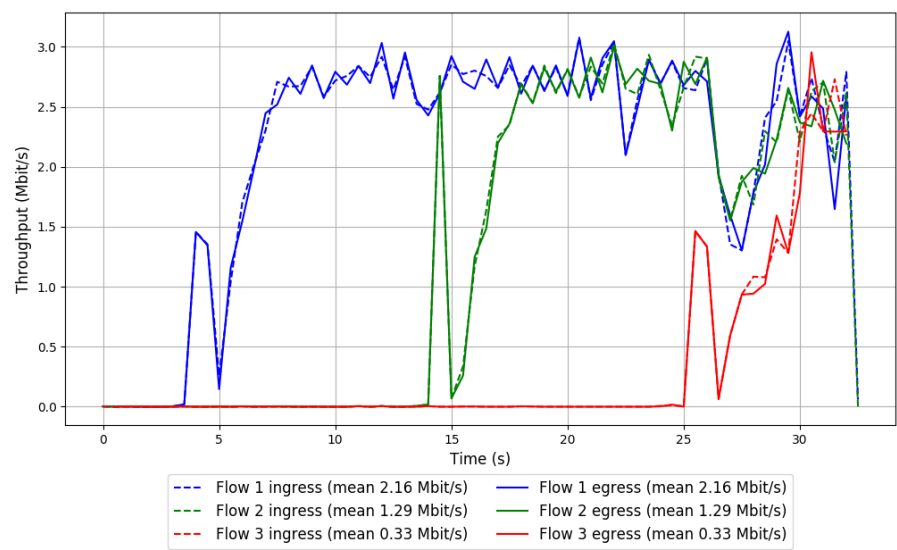
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 38.724 ms

Loss rate: 1.89%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: Sat, 29 Jul 2017 11:00:23 +0000

End at: Sat, 29 Jul 2017 11:00:53 +0000

Local clock offset: 0.546 ms

Remote clock offset: -2.343 ms

Below is generated by plot.py at Sat, 29 Jul 2017 12:10:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 40.979 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 40.053 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 41.684 ms

Loss rate: 0.57%

-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 41.726 ms

Loss rate: 1.91%

Run 10: Report of WebRTC media — Data Link

