

Pantheon Summary (Generated at Mon, 10 Jul 2017 03:43:43 +0000 with pantheon version c3610718e2bbac84102e8ac47b889a75d4392d79)

Repeated the test of 15 congestion control schemes 10 times.

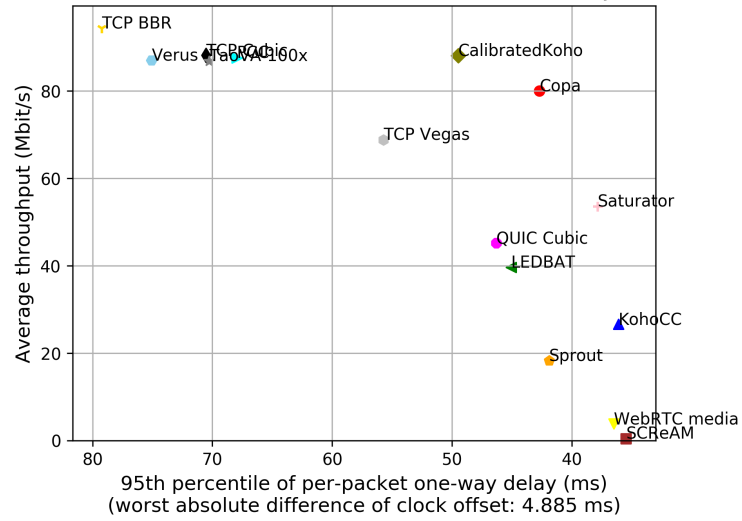
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Data path **from** Mexico Ethernet **to** AWS California 2 Ethernet.

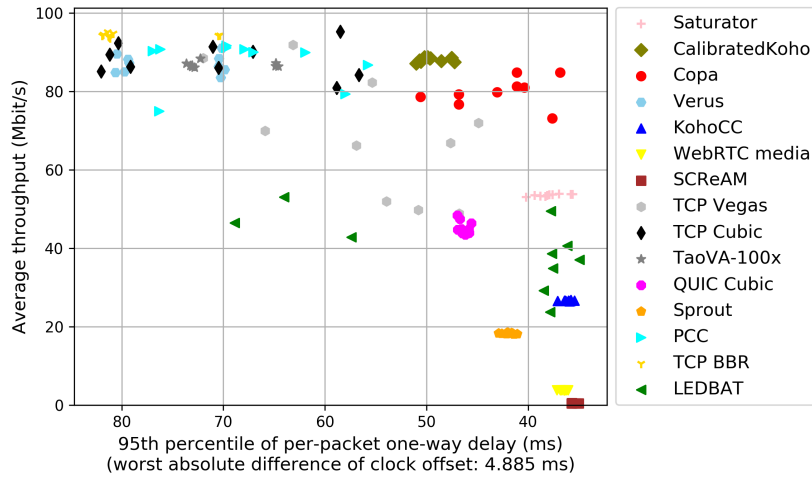
NTP offset measured against time.stanford.edu.

```
git branch: master @ c3610718e2bbac84102e8ac47b889a75d4392d79
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 @ c792f8e8e0704b1646a0e024766675d8e9a835f1
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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	55.69	40.05	36.52	79.00	73.22	70.01	0.45	0.67	1.31
CalibratedKoho	10	63.74	29.16	14.99	49.04	49.87	50.30	0.40	0.58	1.13
Copa	10	44.92	35.72	33.98	40.24	44.54	50.29	0.42	0.55	1.08
TCP Cubic	10	50.34	42.63	29.05	67.61	67.75	66.87	0.39	0.55	6.31
KohoCC	10	13.40	13.38	13.06	36.13	35.80	36.27	0.33	0.49	0.93
LEDBAT	10	22.49	20.21	11.14	42.76	45.47	42.94	0.49	0.78	1.73
PCC	10	55.90	36.11	23.81	66.01	66.66	64.55	0.38	0.64	1.30
QUIC Cubic	10	48.07	48.07	44.93	45.55	44.90	45.94	0.09	0.12	1.16
Saturator	10	26.94	26.82	26.54	37.09	37.70	39.91	0.35	0.50	1.01
SCReAM	10	0.22	0.22	0.22	35.42	34.96	35.27	0.28	0.43	0.82
Sprout	10	9.27	9.12	8.89	41.48	42.02	42.73	0.34	0.47	0.98
TaoVA-100x	10	49.42	40.69	31.22	67.96	64.15	67.97	0.46	0.73	1.42
TCP Vegas	10	38.86	28.78	32.65	51.25	49.75	58.82	0.29	0.38	0.88
Verus	10	51.30	37.81	30.73	72.49	73.10	70.07	0.42	0.71	1.39
WebRTC media	10	2.16	1.30	0.35	36.02	36.74	37.30	0.39	0.57	2.30

Run 1: Statistics of TCP BBR

Start at: Sun, 09 Jul 2017 23:28:00 +0000

End at: Sun, 09 Jul 2017 23:28:30 +0000

Local clock offset: 0.568 ms

Remote clock offset: -3.372 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:31:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 81.399 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 55.59 Mbit/s

95th percentile per-packet one-way delay: 81.690 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 81.471 ms

Loss rate: 0.50%

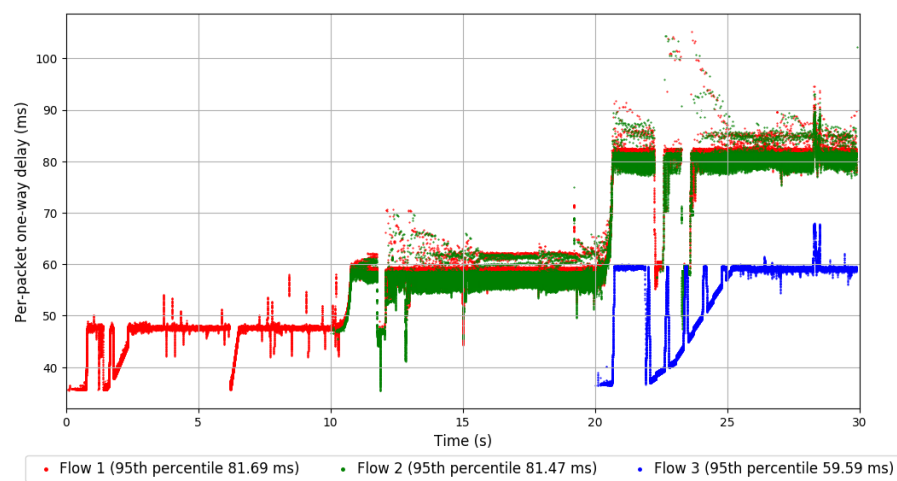
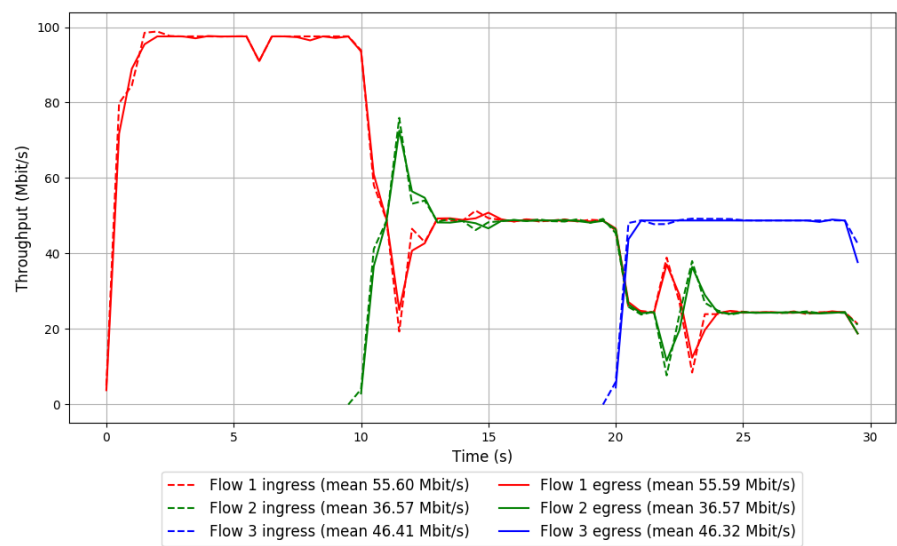
-- Flow 3:

Average throughput: 46.32 Mbit/s

95th percentile per-packet one-way delay: 59.592 ms

Loss rate: 1.17%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Sun, 09 Jul 2017 23:48:29 +0000

End at: Sun, 09 Jul 2017 23:48:59 +0000

Local clock offset: 0.575 ms

Remote clock offset: -3.529 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:31:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 81.925 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 55.28 Mbit/s

95th percentile per-packet one-way delay: 81.826 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 82.164 ms

Loss rate: 0.63%

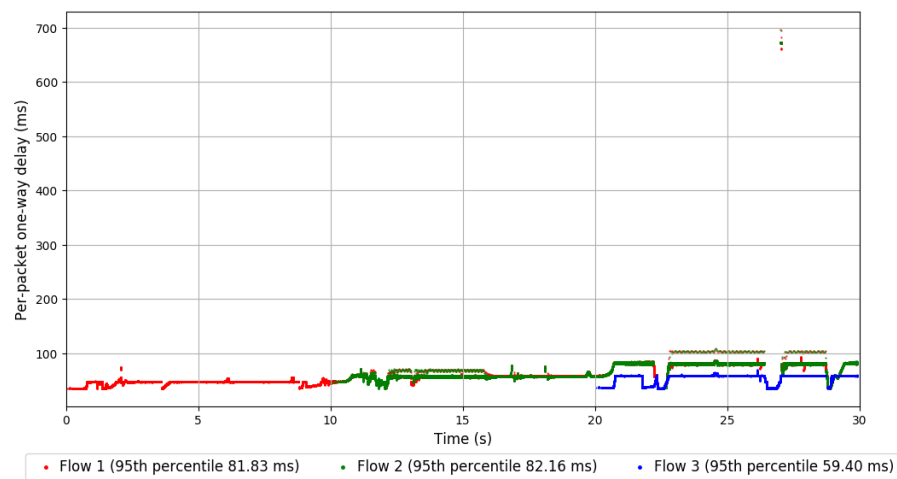
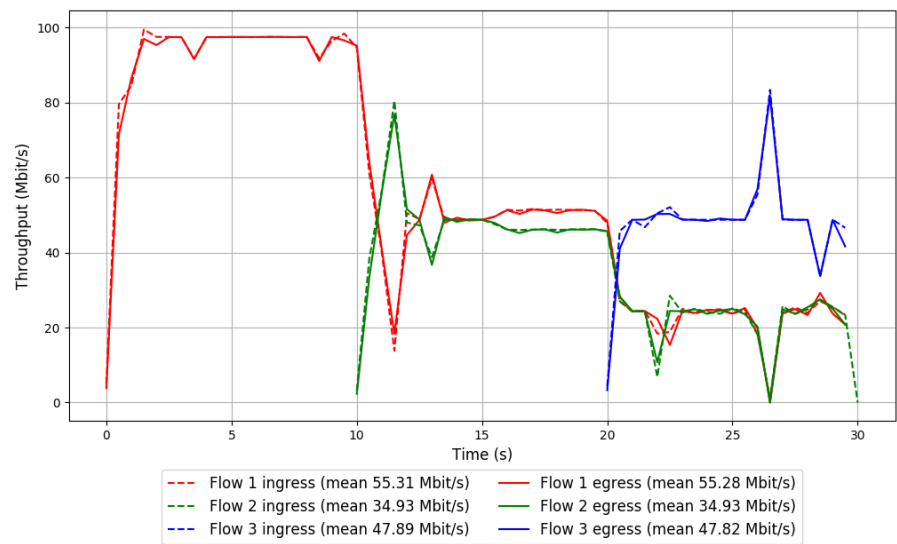
-- Flow 3:

Average throughput: 47.82 Mbit/s

95th percentile per-packet one-way delay: 59.400 ms

Loss rate: 1.12%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 00:09:07 +0000

End at: Mon, 10 Jul 2017 00:09:37 +0000

Local clock offset: 0.678 ms

Remote clock offset: -1.421 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 81.236 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 80.847 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 63.315 ms

Loss rate: 0.89%

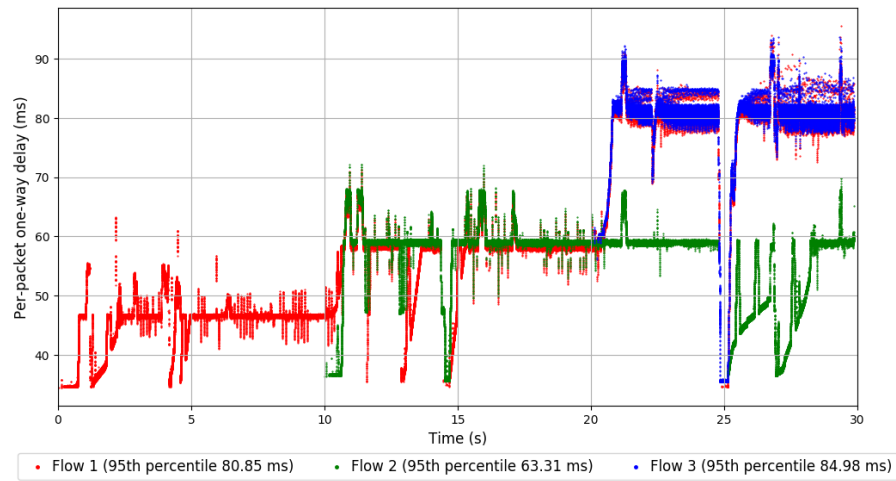
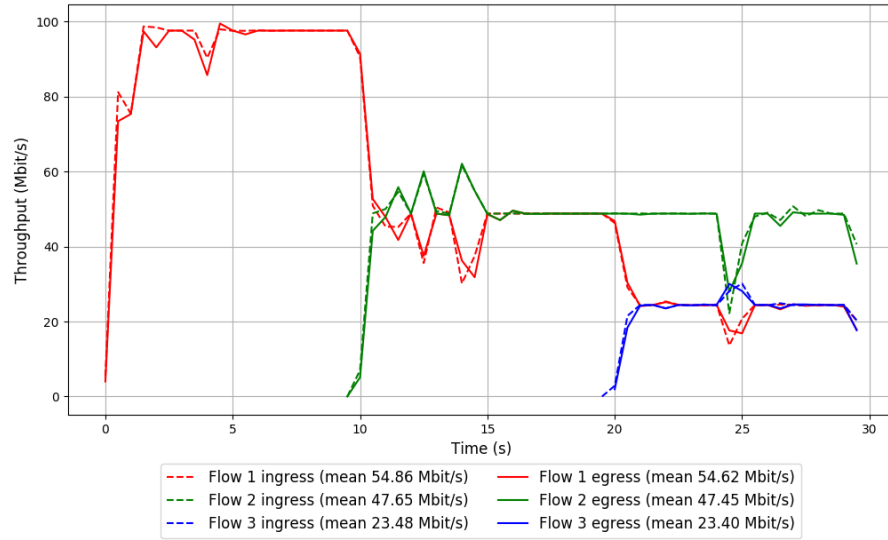
-- Flow 3:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 84.977 ms

Loss rate: 1.69%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 00:30:15 +0000

End at: Mon, 10 Jul 2017 00:30:45 +0000

Local clock offset: 0.735 ms

Remote clock offset: -3.638 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 81.148 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 80.756 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 59.571 ms

Loss rate: 0.62%

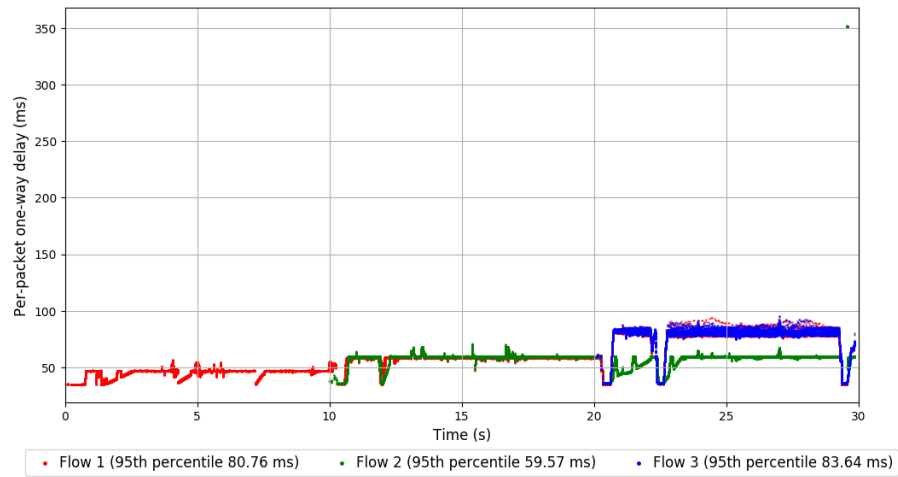
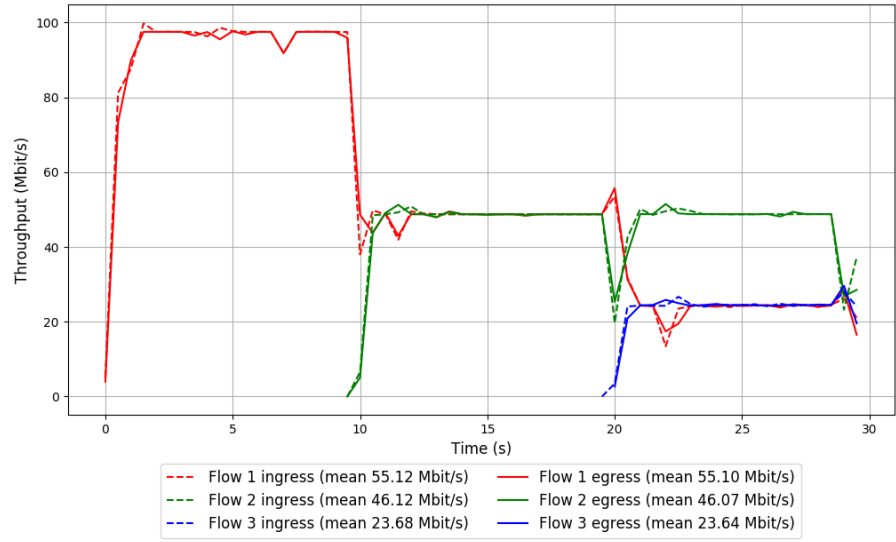
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 83.638 ms

Loss rate: 1.43%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 00:51:06 +0000

End at: Mon, 10 Jul 2017 00:51:36 +0000

Local clock offset: 0.512 ms

Remote clock offset: -1.227 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 81.330 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 80.889 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 35.89 Mbit/s

95th percentile per-packet one-way delay: 82.405 ms

Loss rate: 0.75%

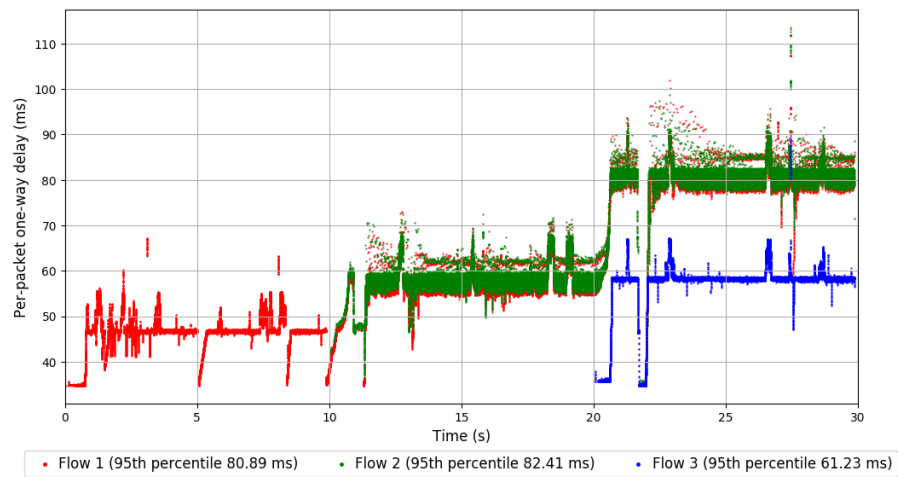
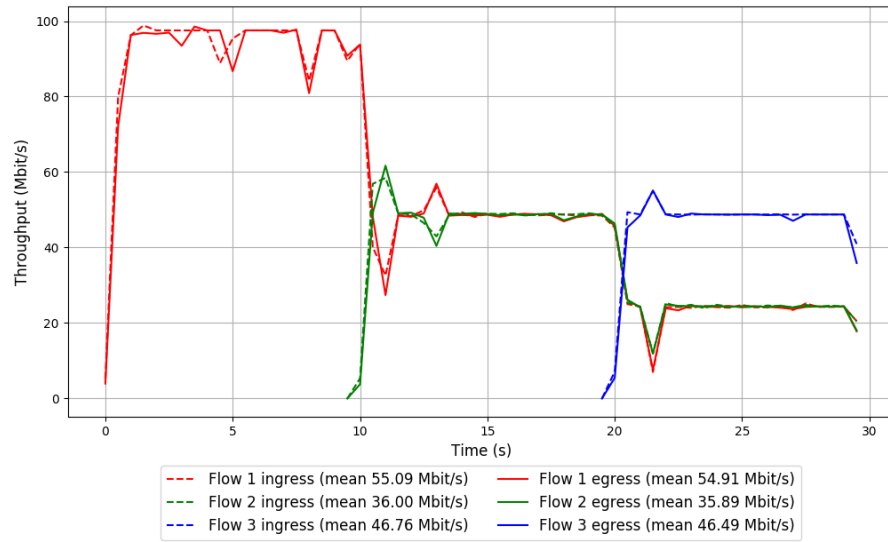
-- Flow 3:

Average throughput: 46.49 Mbit/s

95th percentile per-packet one-way delay: 61.232 ms

Loss rate: 1.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 01:11:52 +0000

End at: Mon, 10 Jul 2017 01:12:22 +0000

Local clock offset: 0.6 ms

Remote clock offset: -0.964 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.32 Mbit/s

95th percentile per-packet one-way delay: 81.917 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 54.77 Mbit/s

95th percentile per-packet one-way delay: 81.856 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 36.58 Mbit/s

95th percentile per-packet one-way delay: 82.151 ms

Loss rate: 0.81%

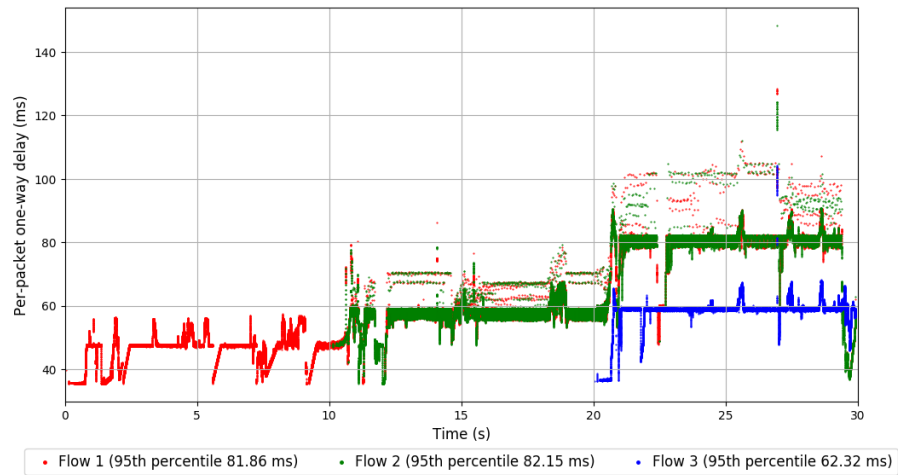
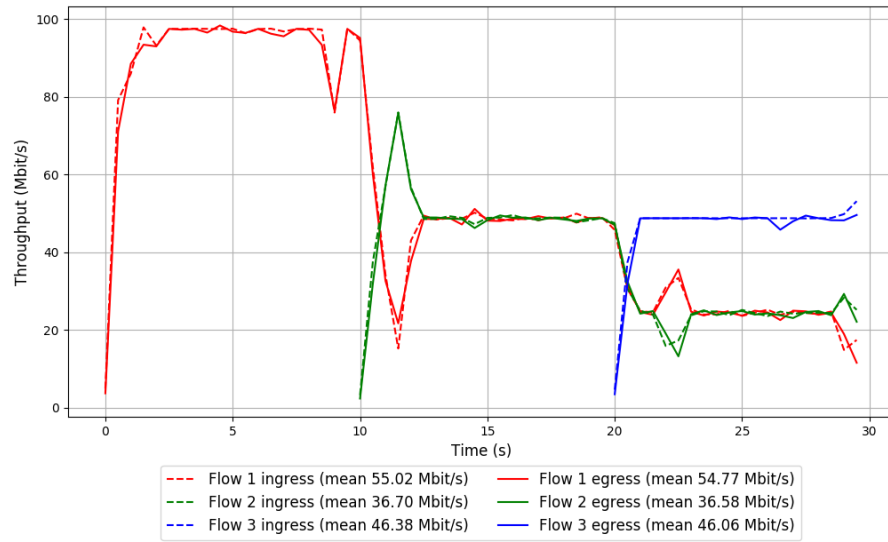
-- Flow 3:

Average throughput: 46.06 Mbit/s

95th percentile per-packet one-way delay: 62.320 ms

Loss rate: 1.66%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 01:32:41 +0000

End at: Mon, 10 Jul 2017 01:33:11 +0000

Local clock offset: 0.703 ms

Remote clock offset: -3.697 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 81.801 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 55.42 Mbit/s

95th percentile per-packet one-way delay: 81.711 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 82.049 ms

Loss rate: 0.64%

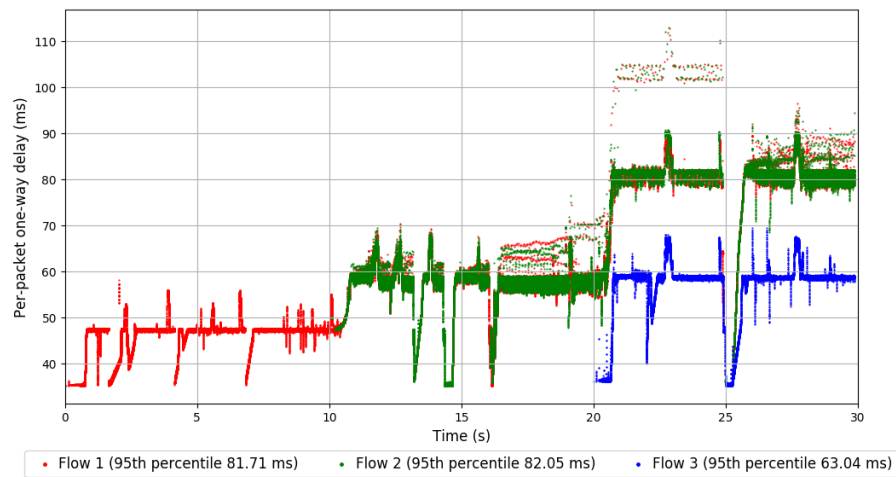
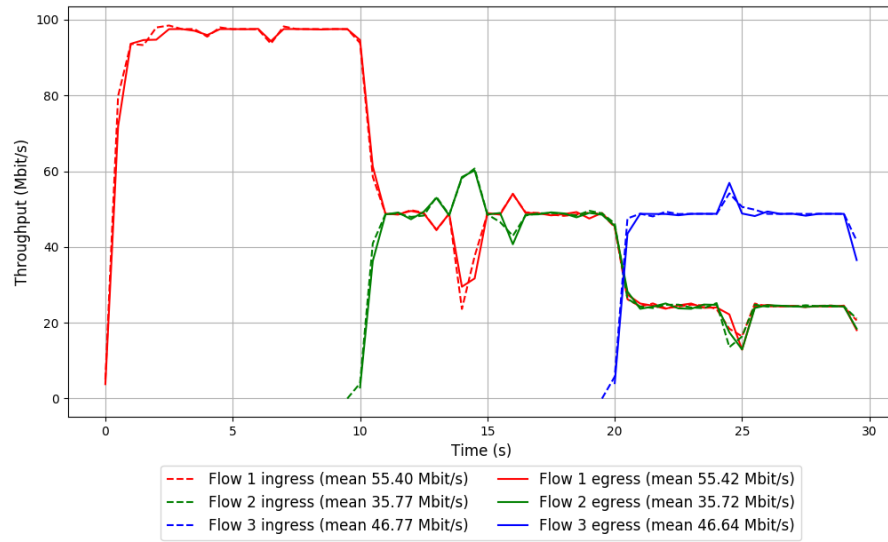
-- Flow 3:

Average throughput: 46.64 Mbit/s

95th percentile per-packet one-way delay: 63.043 ms

Loss rate: 1.25%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 01:53:25 +0000

End at: Mon, 10 Jul 2017 01:53:55 +0000

Local clock offset: 0.799 ms

Remote clock offset: -1.23 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 70.511 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 70.419 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 39.64 Mbit/s

95th percentile per-packet one-way delay: 70.567 ms

Loss rate: 0.62%

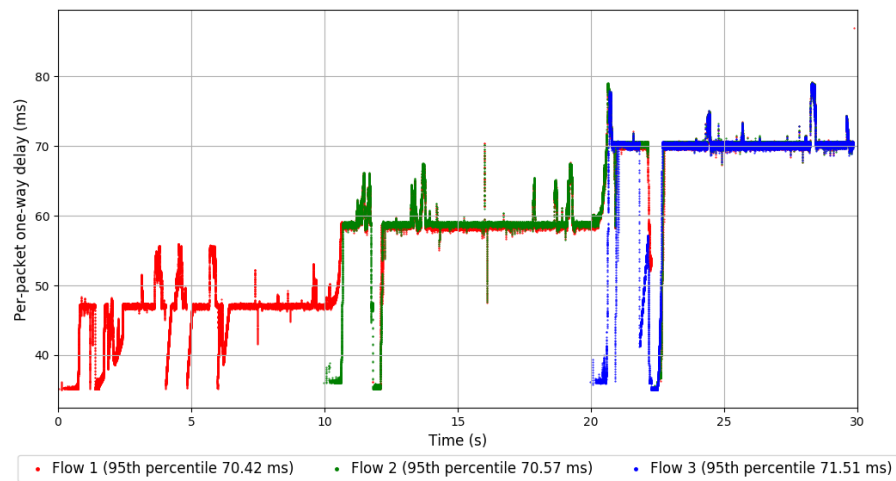
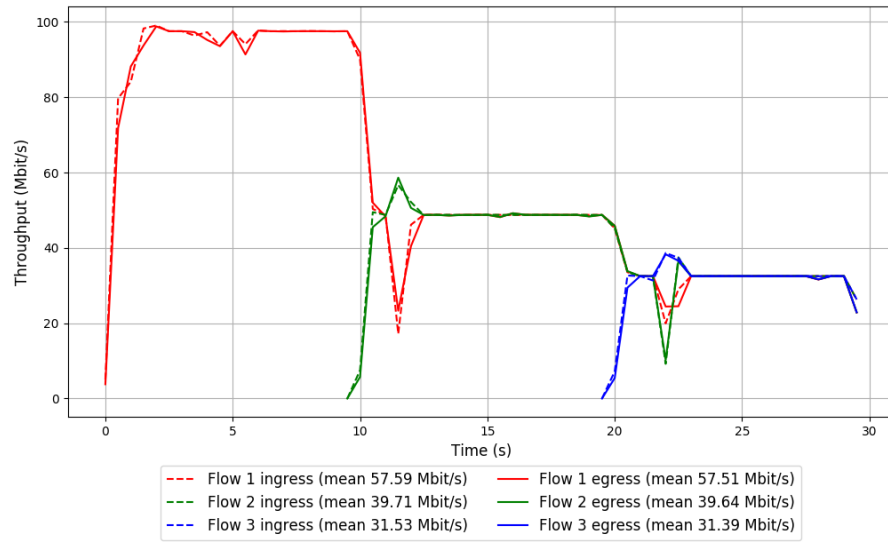
-- Flow 3:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 71.513 ms

Loss rate: 1.47%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 02:14:02 +0000

End at: Mon, 10 Jul 2017 02:14:32 +0000

Local clock offset: 0.828 ms

Remote clock offset: -1.771 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 70.317 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 57.75 Mbit/s

95th percentile per-packet one-way delay: 69.407 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 69.577 ms

Loss rate: 0.60%

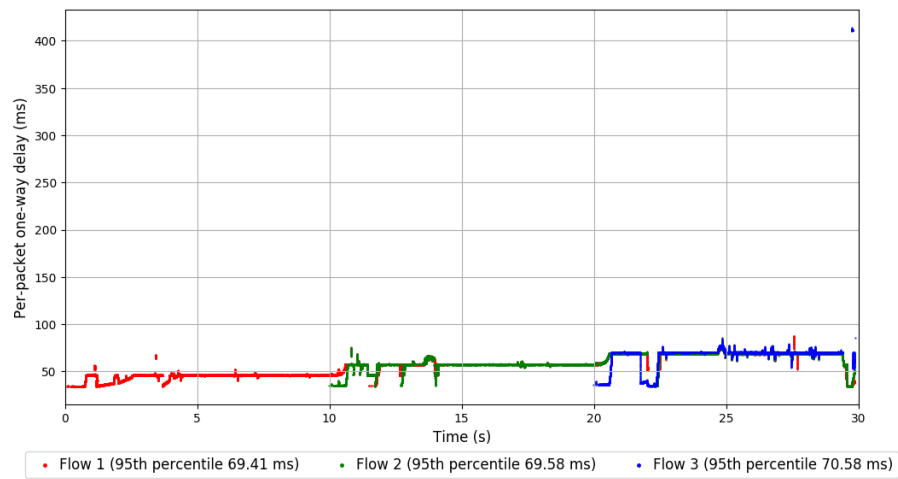
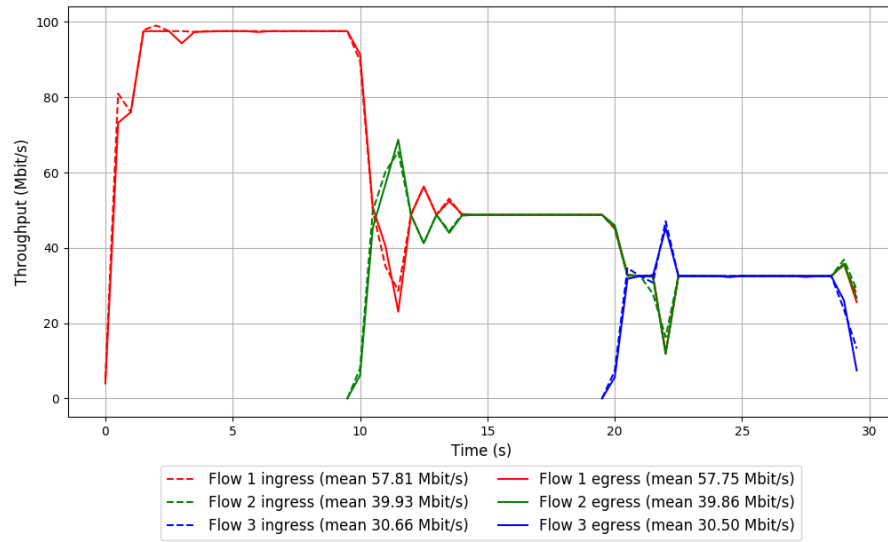
-- Flow 3:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 70.585 ms

Loss rate: 1.35%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 02:34:39 +0000

End at: Mon, 10 Jul 2017 02:35:09 +0000

Local clock offset: 0.837 ms

Remote clock offset: -3.879 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 80.827 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 55.97 Mbit/s

95th percentile per-packet one-way delay: 80.605 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 58.896 ms

Loss rate: 0.60%

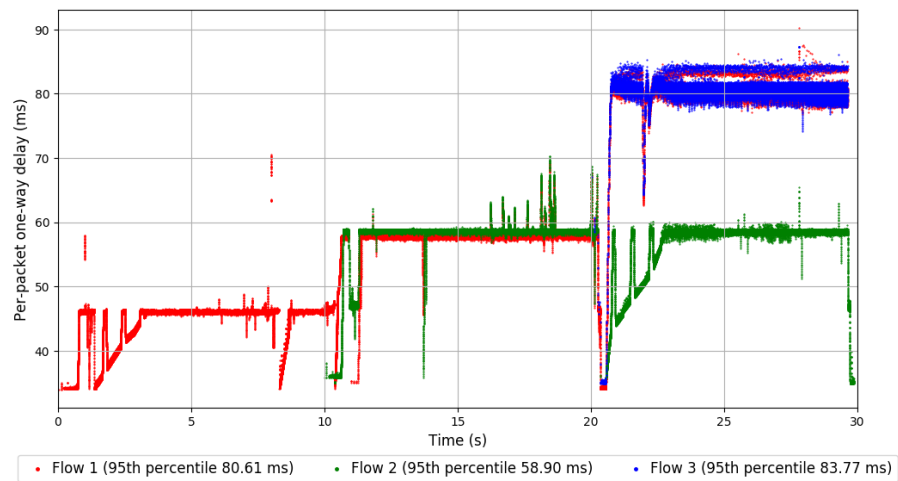
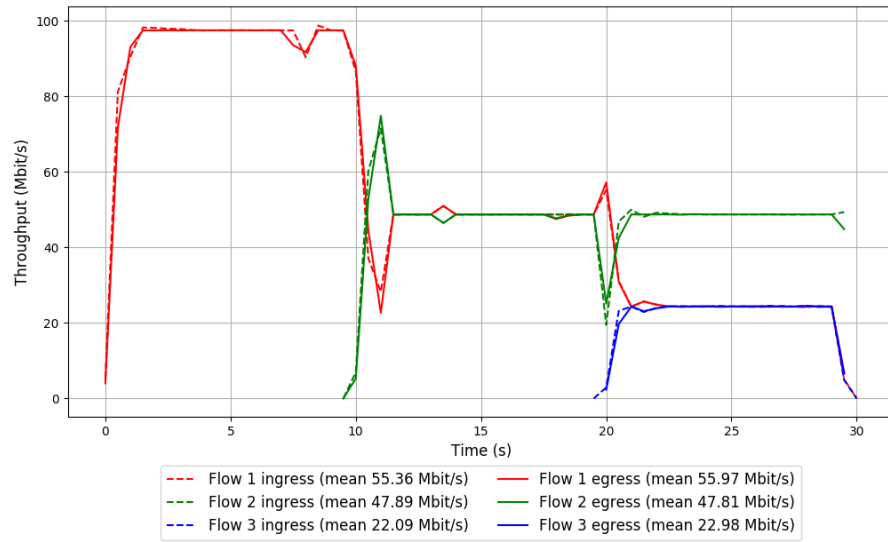
-- Flow 3:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 83.773 ms

Loss rate: 0.50%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Sun, 09 Jul 2017 23:36:10 +0000

End at: Sun, 09 Jul 2017 23:36:40 +0000

Local clock offset: 0.679 ms

Remote clock offset: -1.486 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:32:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 50.209 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 58.85 Mbit/s

95th percentile per-packet one-way delay: 49.100 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 43.53 Mbit/s

95th percentile per-packet one-way delay: 51.387 ms

Loss rate: 0.64%

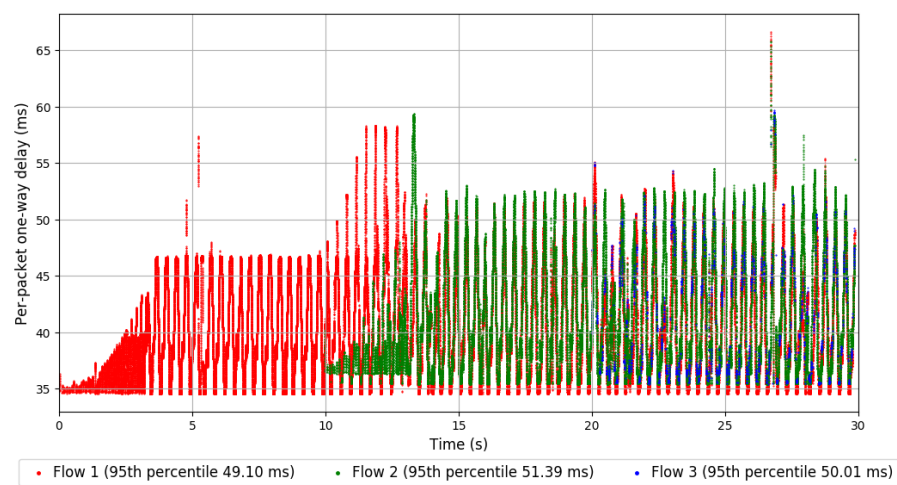
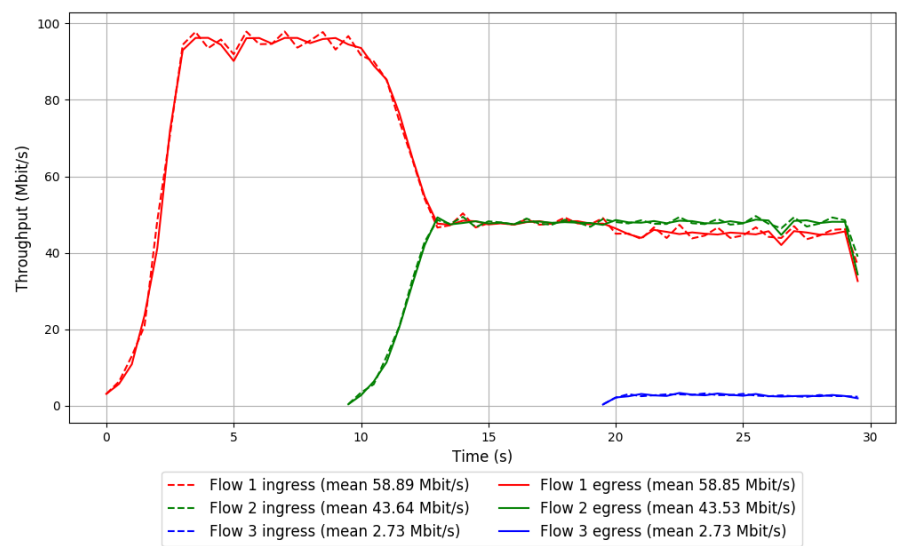
-- Flow 3:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 50.005 ms

Loss rate: 0.88%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Sun, 09 Jul 2017 23:56:48 +0000

End at: Sun, 09 Jul 2017 23:57:18 +0000

Local clock offset: 0.709 ms

Remote clock offset: -0.909 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 49.880 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 48.952 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 36.74 Mbit/s

95th percentile per-packet one-way delay: 50.248 ms

Loss rate: 0.43%

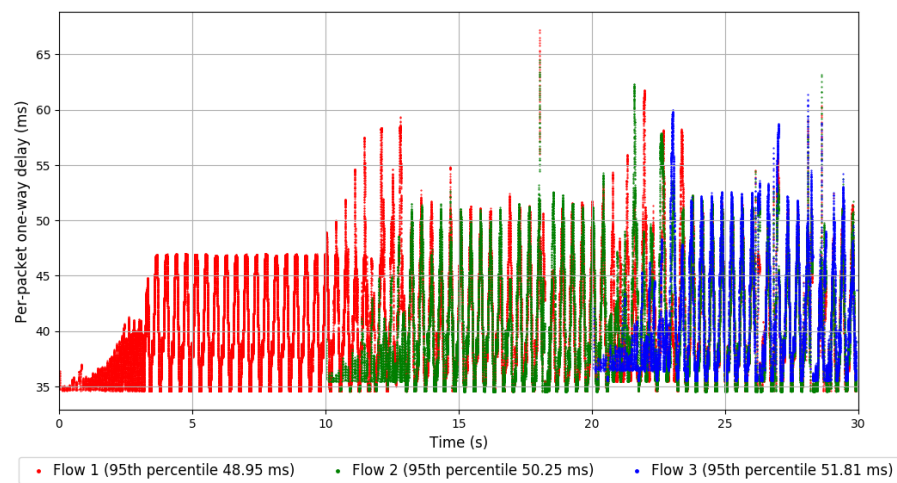
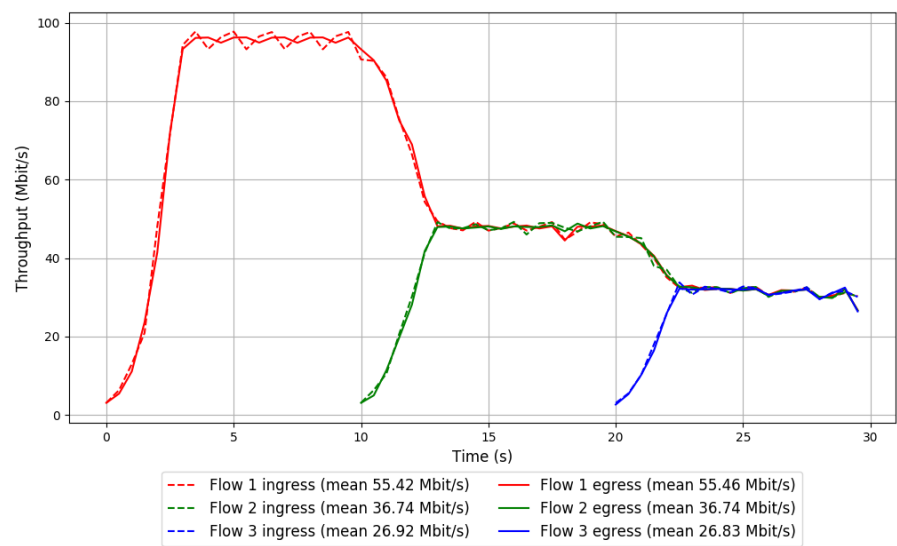
-- Flow 3:

Average throughput: 26.83 Mbit/s

95th percentile per-packet one-way delay: 51.814 ms

Loss rate: 1.12%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 00:17:35 +0000

End at: Mon, 10 Jul 2017 00:18:05 +0000

Local clock offset: 0.678 ms

Remote clock offset: -3.489 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 51.008 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 50.724 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 42.01 Mbit/s

95th percentile per-packet one-way delay: 51.400 ms

Loss rate: 1.07%

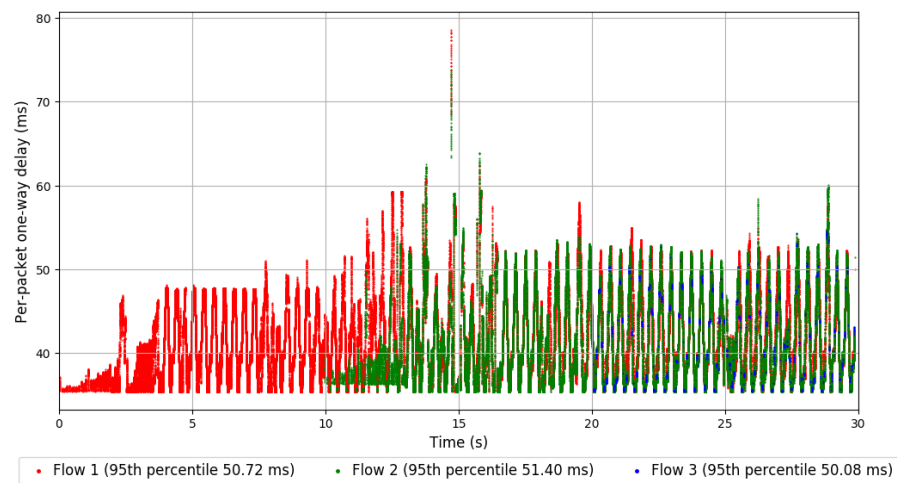
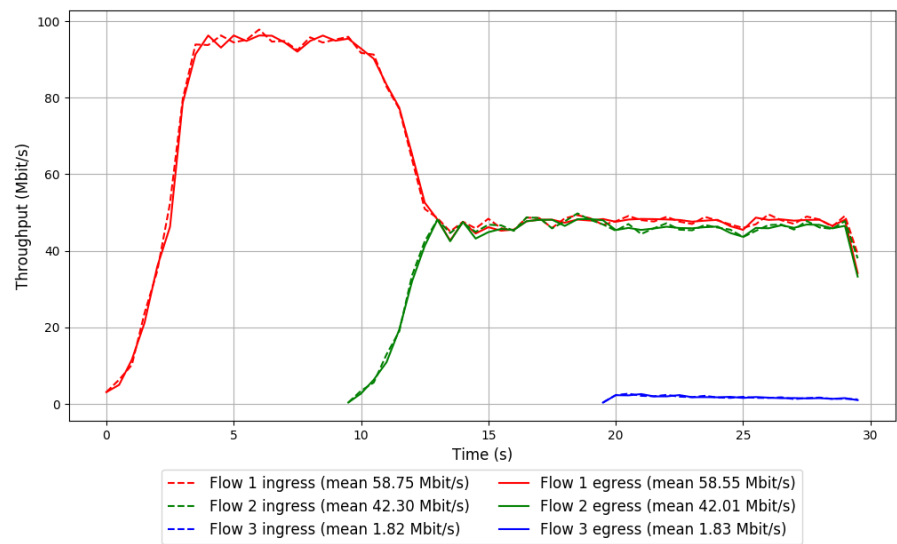
-- Flow 3:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 50.078 ms

Loss rate: 0.73%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 00:38:40 +0000

End at: Mon, 10 Jul 2017 00:39:10 +0000

Local clock offset: 0.574 ms

Remote clock offset: -1.352 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.63 Mbit/s

95th percentile per-packet one-way delay: 50.550 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 50.460 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 50.226 ms

Loss rate: 0.72%

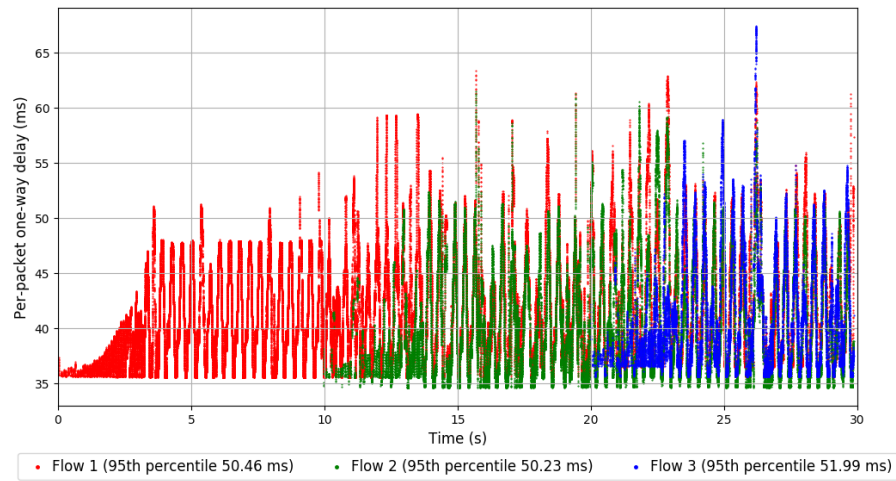
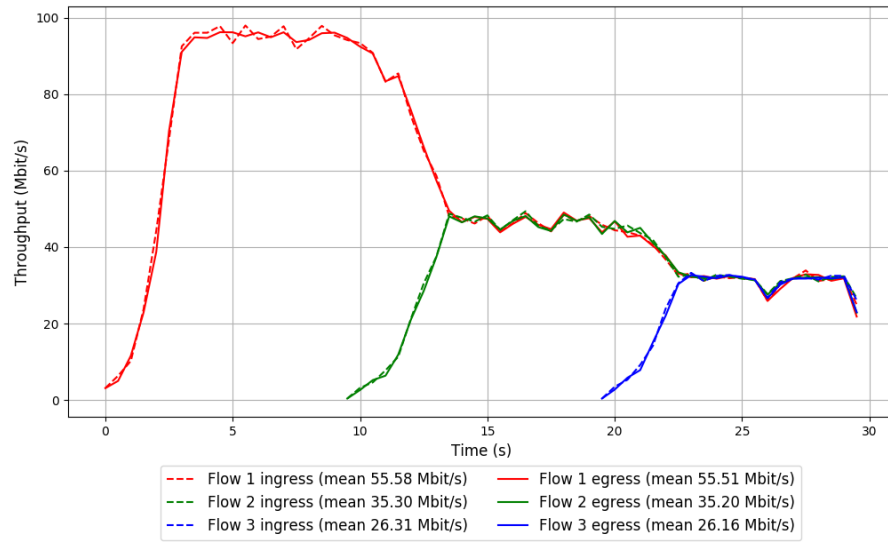
-- Flow 3:

Average throughput: 26.16 Mbit/s

95th percentile per-packet one-way delay: 51.987 ms

Loss rate: 1.42%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 00:59:28 +0000

End at: Mon, 10 Jul 2017 00:59:58 +0000

Local clock offset: 0.612 ms

Remote clock offset: -1.51 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 47.241 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 84.49 Mbit/s

95th percentile per-packet one-way delay: 47.177 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 47.784 ms

Loss rate: 0.66%

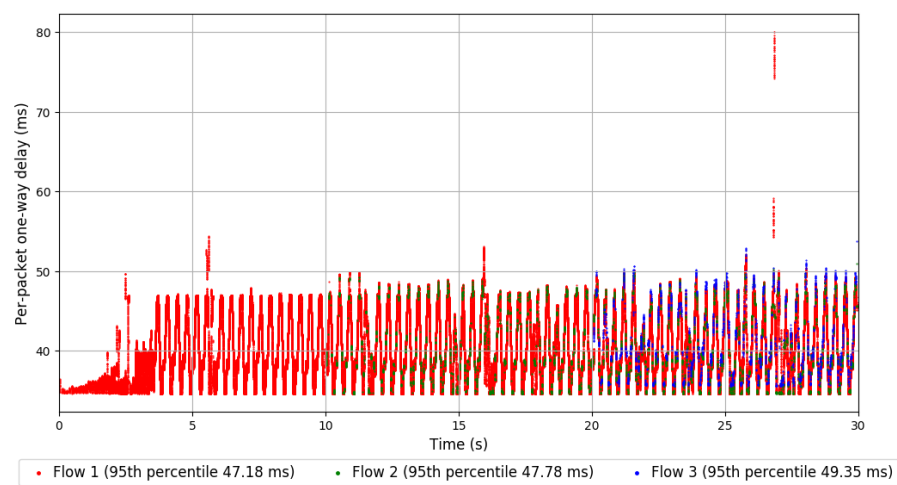
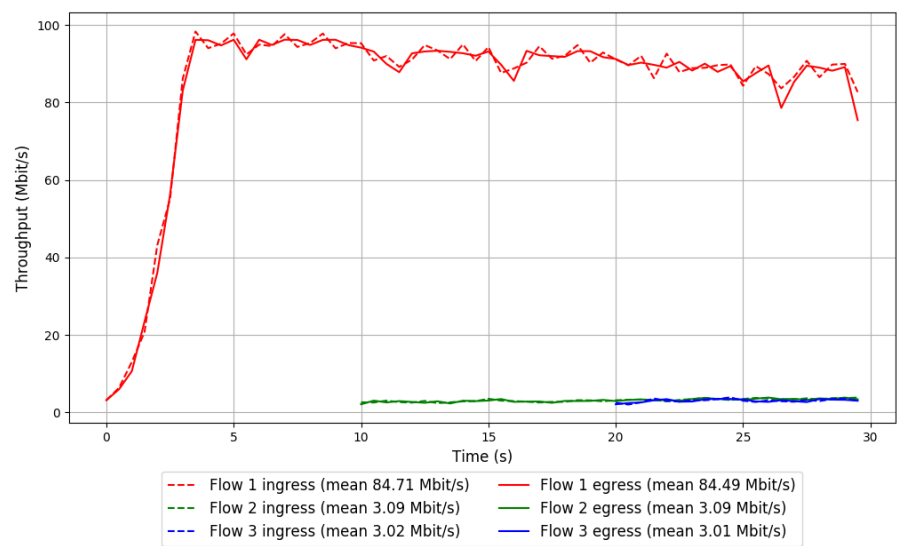
-- Flow 3:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 49.350 ms

Loss rate: 0.88%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 01:20:19 +0000

End at: Mon, 10 Jul 2017 01:20:49 +0000

Local clock offset: 0.651 ms

Remote clock offset: -1.522 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 48.555 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 48.125 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 48.292 ms

Loss rate: 0.35%

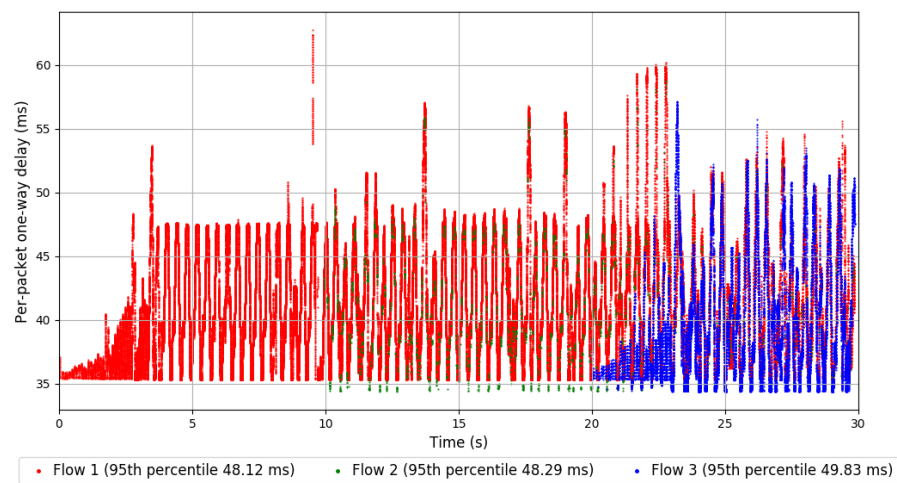
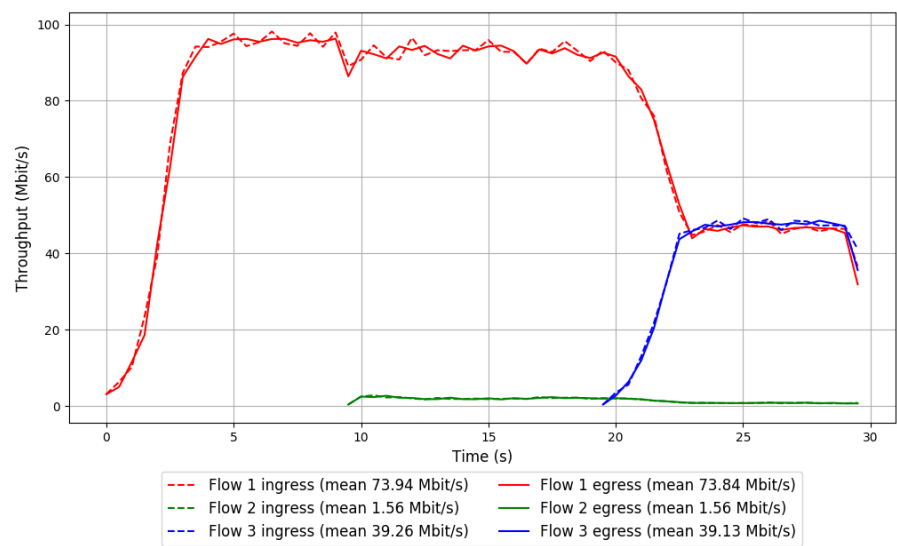
-- Flow 3:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 49.832 ms

Loss rate: 1.18%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 01:41:01 +0000

End at: Mon, 10 Jul 2017 01:41:31 +0000

Local clock offset: 0.812 ms

Remote clock offset: -1.193 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 50.704 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 50.328 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 51.083 ms

Loss rate: 0.62%

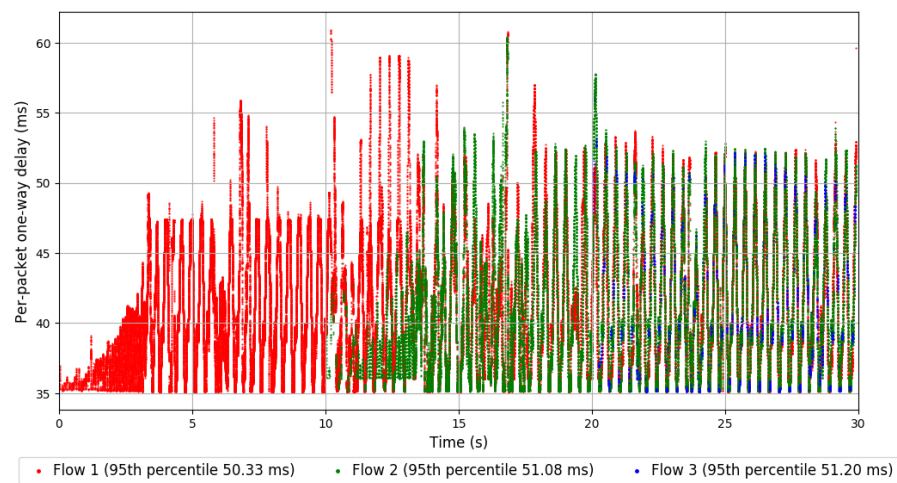
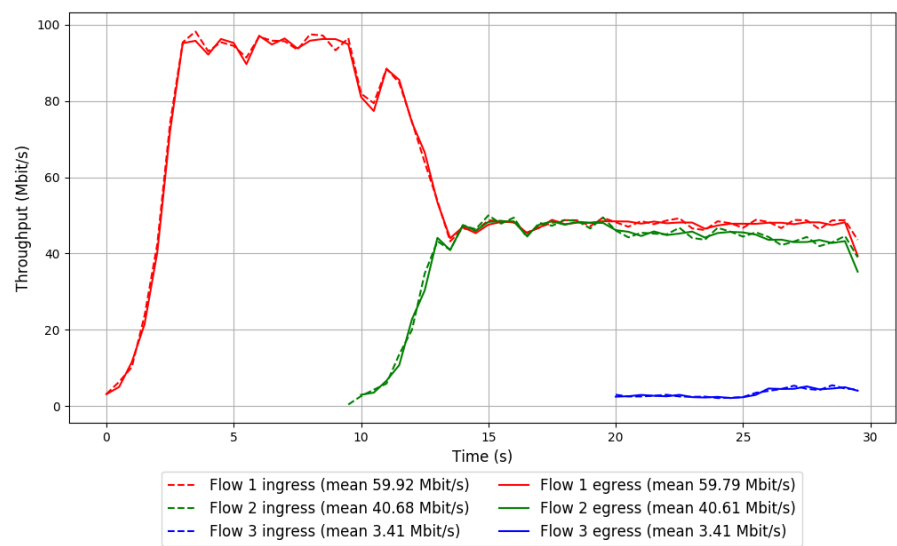
-- Flow 3:

Average throughput: 3.41 Mbit/s

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

Loss rate: 1.24%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 02:01:45 +0000

End at: Mon, 10 Jul 2017 02:02:15 +0000

Local clock offset: 0.817 ms

Remote clock offset: -1.261 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 49.695 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 57.75 Mbit/s

95th percentile per-packet one-way delay: 48.973 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 43.63 Mbit/s

95th percentile per-packet one-way delay: 50.456 ms

Loss rate: 0.69%

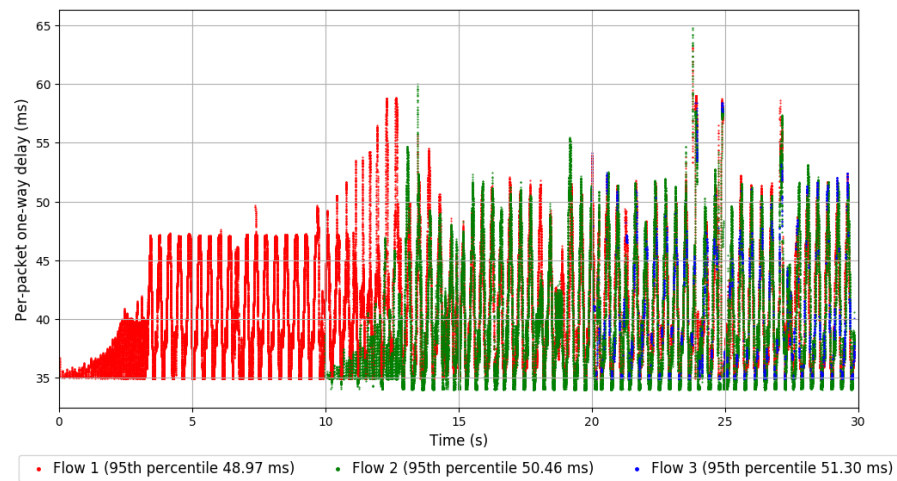
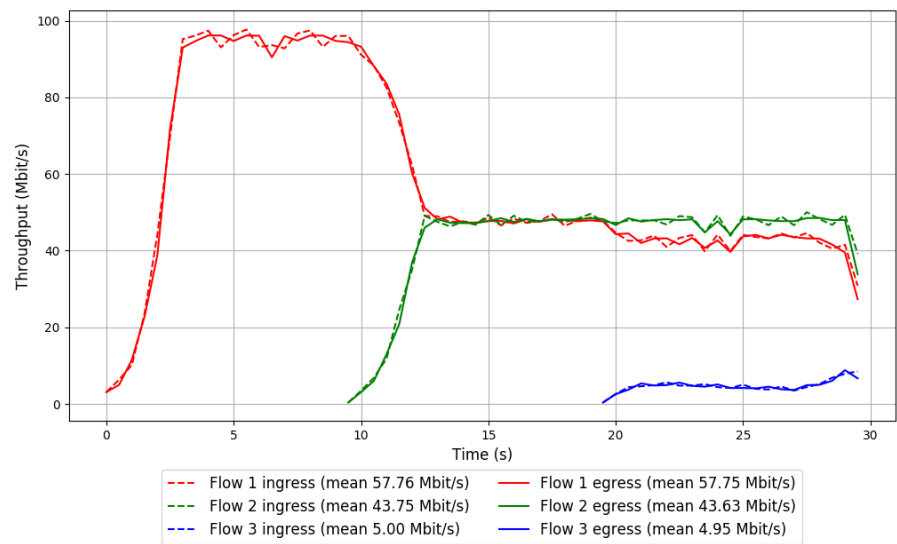
-- Flow 3:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 51.300 ms

Loss rate: 1.97%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 02:22:19 +0000

End at: Mon, 10 Jul 2017 02:22:49 +0000

Local clock offset: 0.942 ms

Remote clock offset: -1.382 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.60 Mbit/s

95th percentile per-packet one-way delay: 47.521 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 47.321 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 47.840 ms

Loss rate: 0.15%

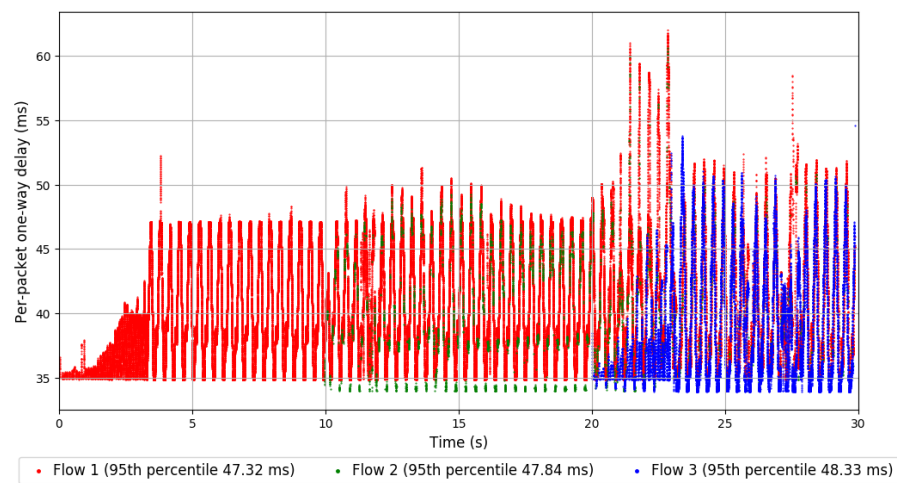
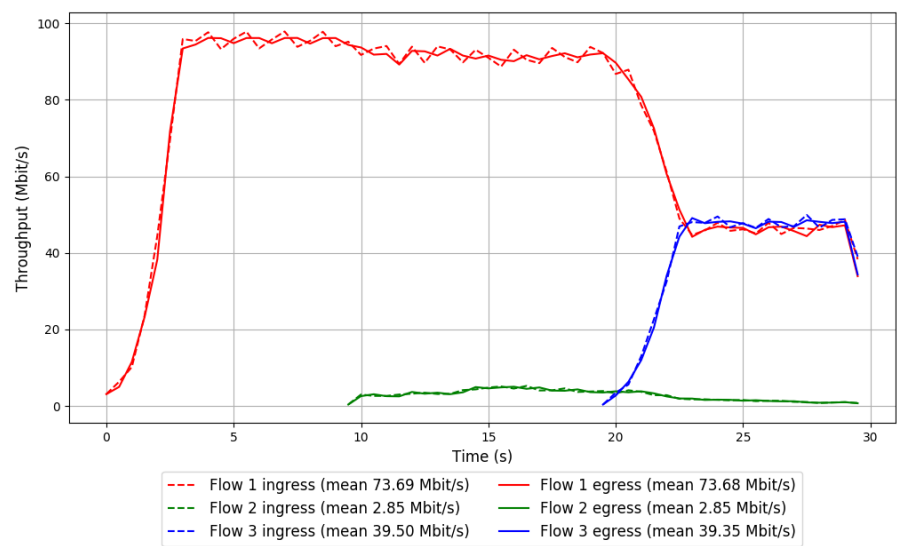
-- Flow 3:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 48.328 ms

Loss rate: 1.16%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 02:42:58 +0000

End at: Mon, 10 Jul 2017 02:43:28 +0000

Local clock offset: 0.781 ms

Remote clock offset: -3.93 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:33:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 49.600 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 59.49 Mbit/s

95th percentile per-packet one-way delay: 49.280 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 42.36 Mbit/s

95th percentile per-packet one-way delay: 49.965 ms

Loss rate: 0.45%

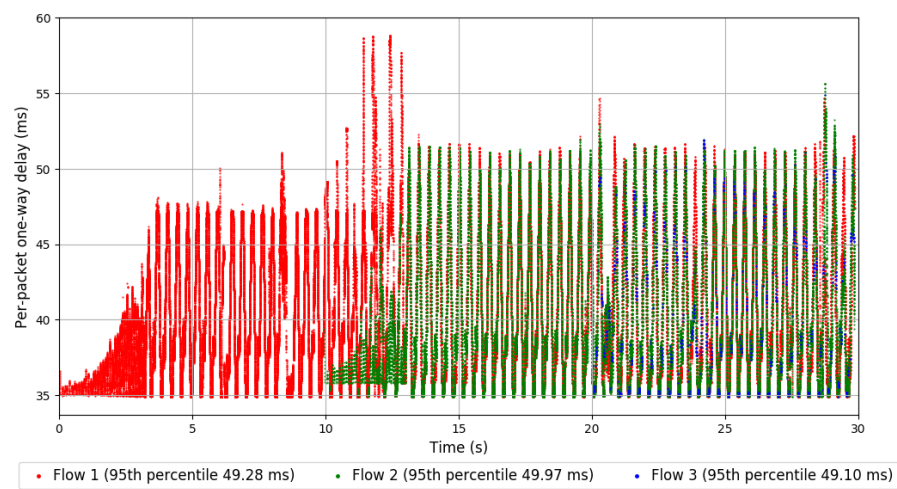
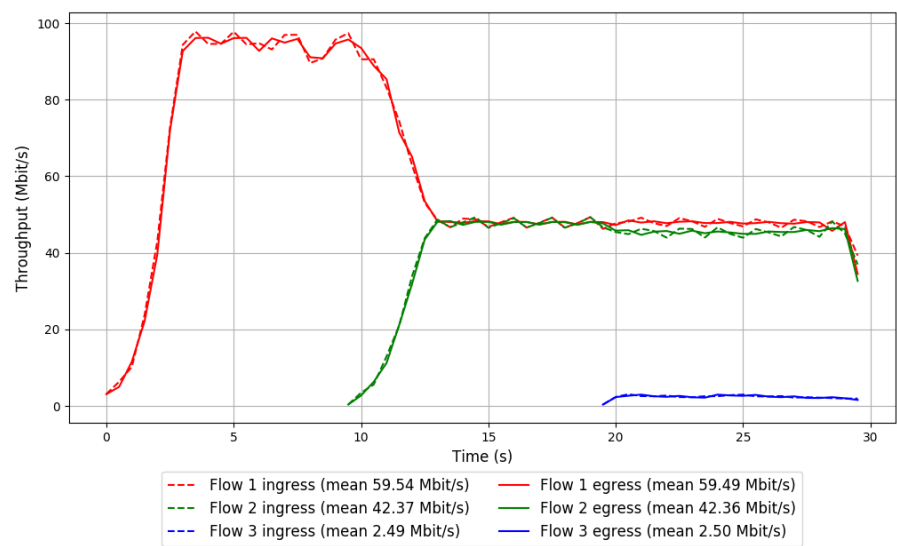
-- Flow 3:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 49.100 ms

Loss rate: 0.73%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

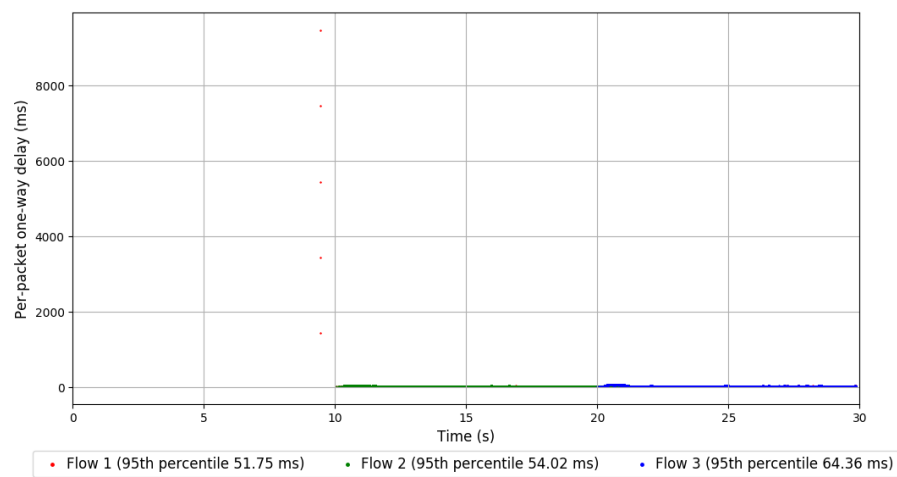
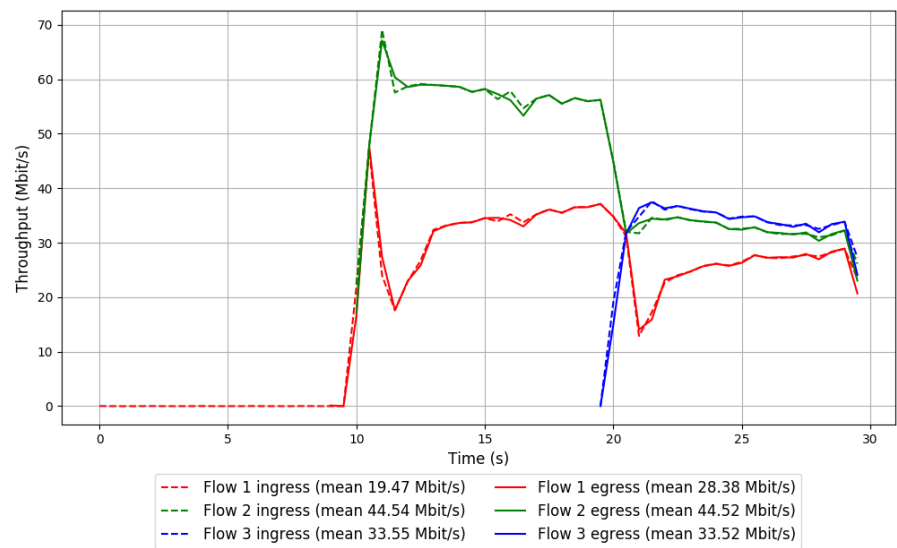
Start at: Sun, 09 Jul 2017 23:42:57 +0000

End at: Sun, 09 Jul 2017 23:43:27 +0000

Local clock offset: 0.705 ms

Remote clock offset: -1.663 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Mon, 10 Jul 2017 00:03:37 +0000

End at: Mon, 10 Jul 2017 00:04:07 +0000

Local clock offset: 0.644 ms

Remote clock offset: -1.444 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:34:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 43.061 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 44.73 Mbit/s

95th percentile per-packet one-way delay: 43.078 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 33.78 Mbit/s

95th percentile per-packet one-way delay: 41.986 ms

Loss rate: 0.58%

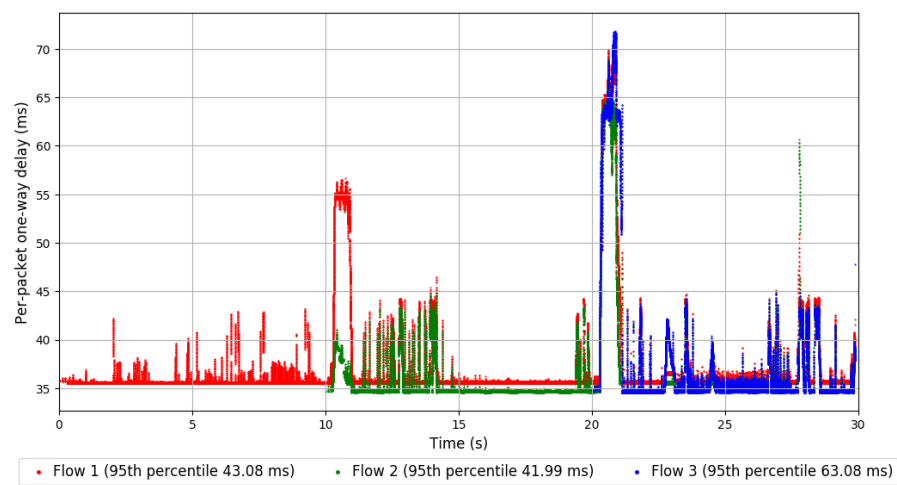
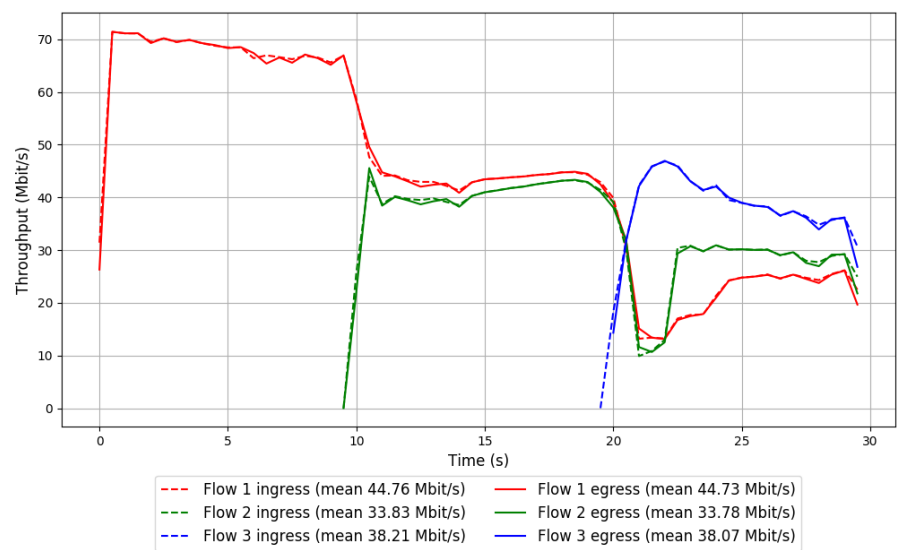
-- Flow 3:

Average throughput: 38.07 Mbit/s

95th percentile per-packet one-way delay: 63.076 ms

Loss rate: 1.17%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Mon, 10 Jul 2017 00:24:39 +0000

End at: Mon, 10 Jul 2017 00:25:09 +0000

Local clock offset: 0.741 ms

Remote clock offset: -3.472 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:34:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.15 Mbit/s

95th percentile per-packet one-way delay: 37.624 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 37.908 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 37.818 ms

Loss rate: 0.50%

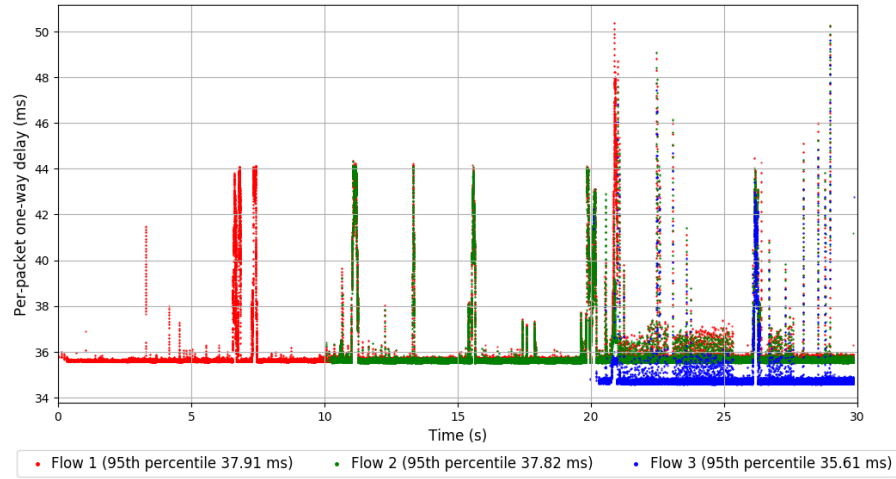
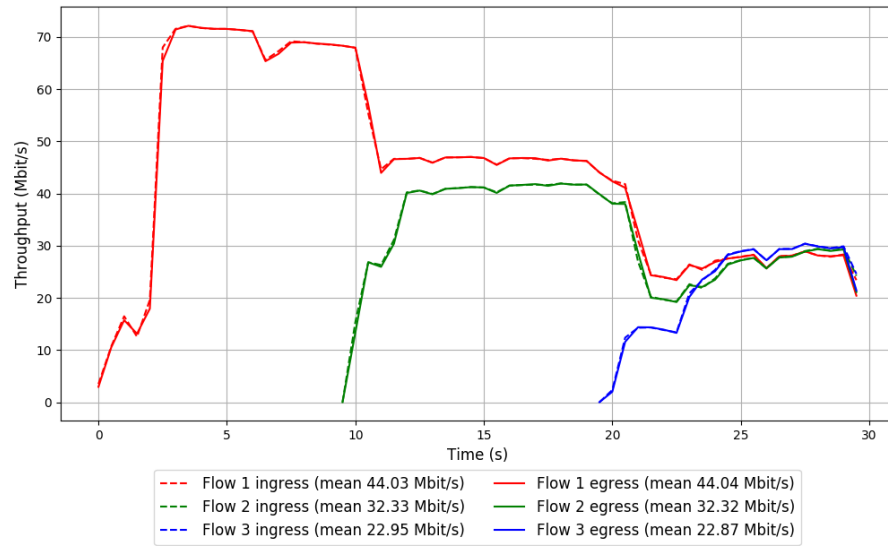
-- Flow 3:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 35.612 ms

Loss rate: 1.22%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Mon, 10 Jul 2017 00:45:34 +0000

End at: Mon, 10 Jul 2017 00:46:04 +0000

Local clock offset: 0.645 ms

Remote clock offset: -3.471 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:34:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 50.613 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 45.174 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 55.361 ms

Loss rate: 0.40%

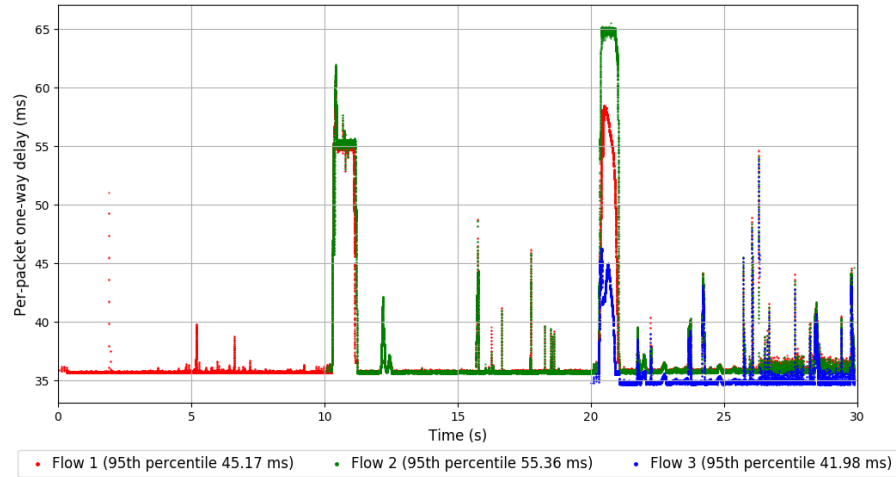
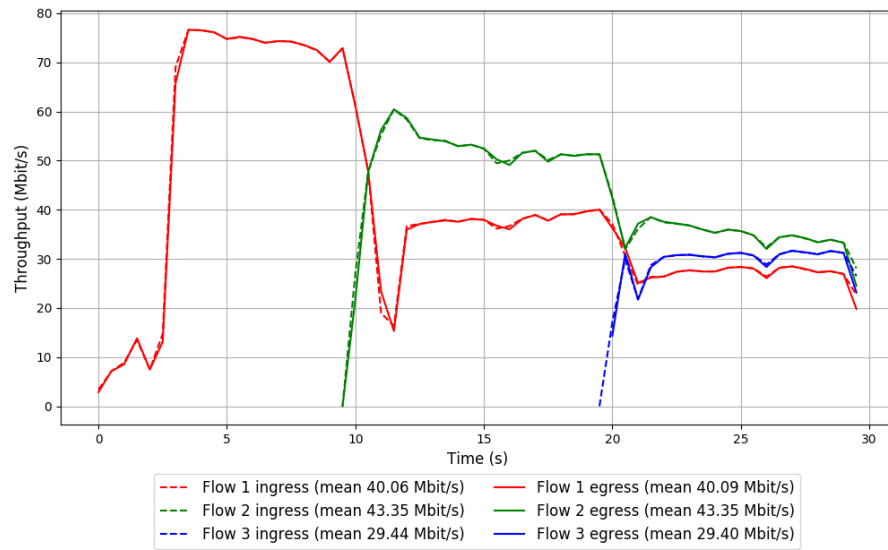
-- Flow 3:

Average throughput: 29.40 Mbit/s

95th percentile per-packet one-way delay: 41.977 ms

Loss rate: 1.04%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Mon, 10 Jul 2017 01:06:22 +0000

End at: Mon, 10 Jul 2017 01:06:52 +0000

Local clock offset: 0.628 ms

Remote clock offset: -1.005 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:34:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 46.832 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 43.811 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 54.050 ms

Loss rate: 0.63%

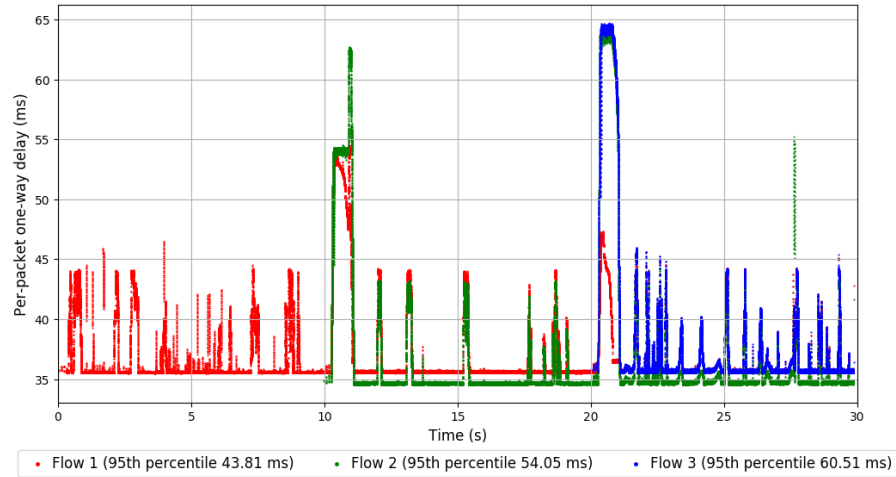
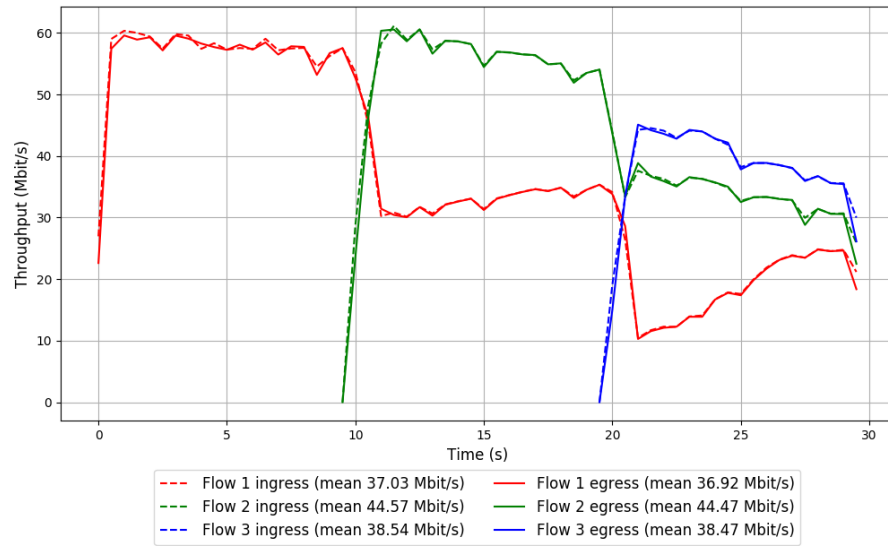
-- Flow 3:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 60.511 ms

Loss rate: 1.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: Mon, 10 Jul 2017 01:27:07 +0000

End at: Mon, 10 Jul 2017 01:27:37 +0000

Local clock offset: 0.675 ms

Remote clock offset: -3.76 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:34:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 41.130 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 50.55 Mbit/s

95th percentile per-packet one-way delay: 41.350 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 33.49 Mbit/s

95th percentile per-packet one-way delay: 41.233 ms

Loss rate: 0.56%

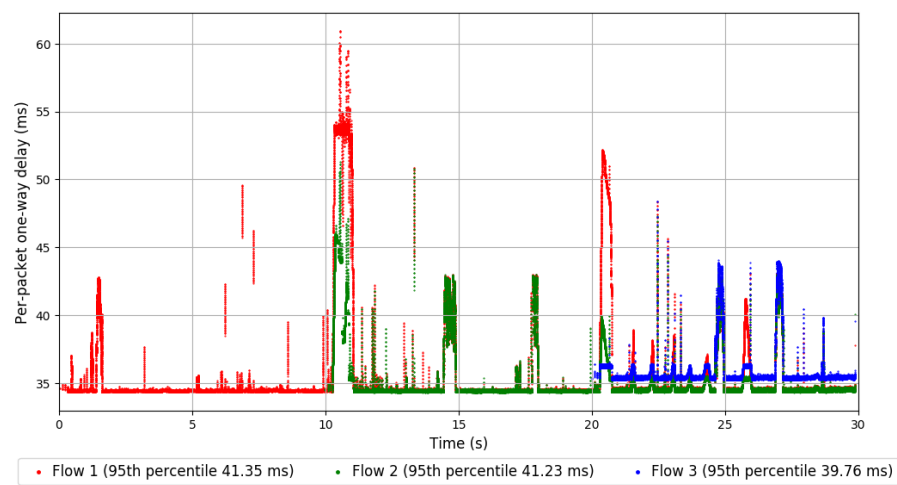
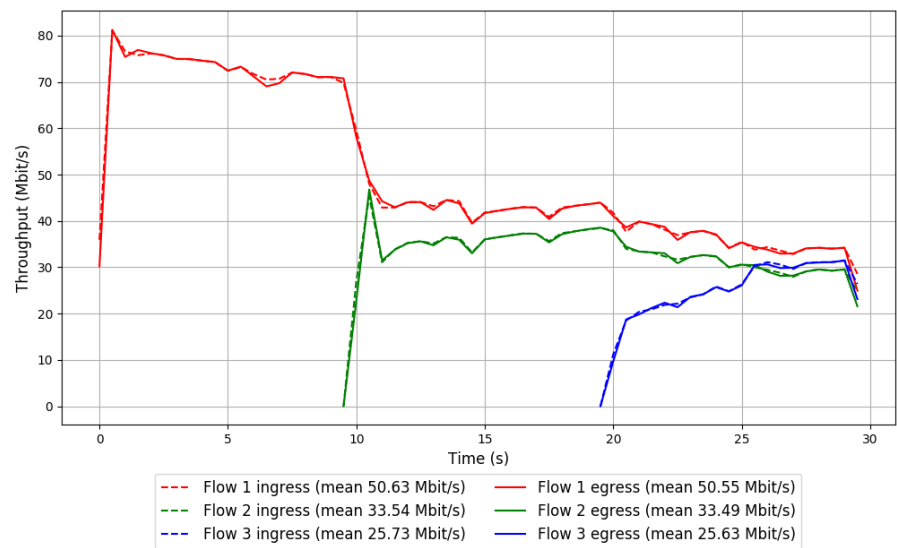
-- Flow 3:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 39.755 ms

Loss rate: 1.22%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Mon, 10 Jul 2017 01:47:51 +0000

End at: Mon, 10 Jul 2017 01:48:21 +0000

Local clock offset: 0.858 ms

Remote clock offset: -1.714 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:34:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.08 Mbit/s

95th percentile per-packet one-way delay: 40.364 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 39.205 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 41.249 ms

Loss rate: 0.49%

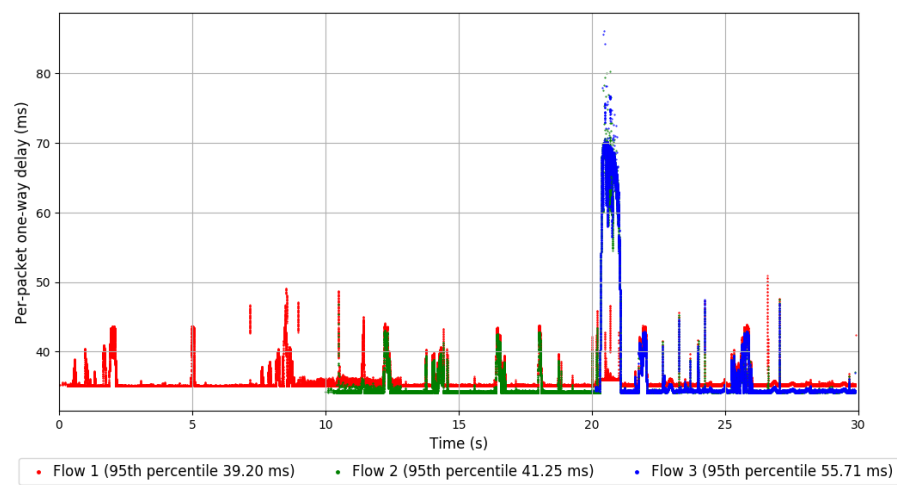
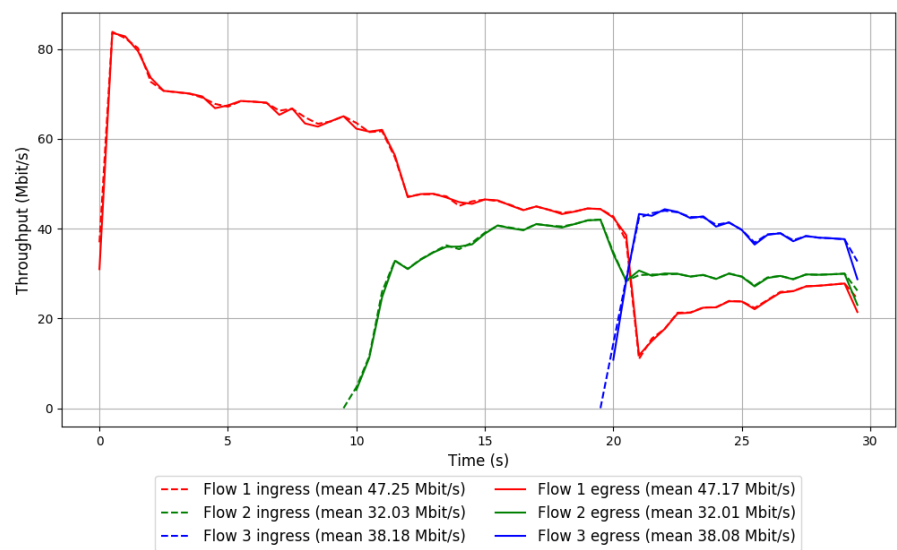
-- Flow 3:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 55.707 ms

Loss rate: 1.12%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: Mon, 10 Jul 2017 02:08:33 +0000

End at: Mon, 10 Jul 2017 02:09:03 +0000

Local clock offset: 0.905 ms

Remote clock offset: -3.754 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:35:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 46.833 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 39.551 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 28.34 Mbit/s

95th percentile per-packet one-way delay: 46.232 ms

Loss rate: 0.56%

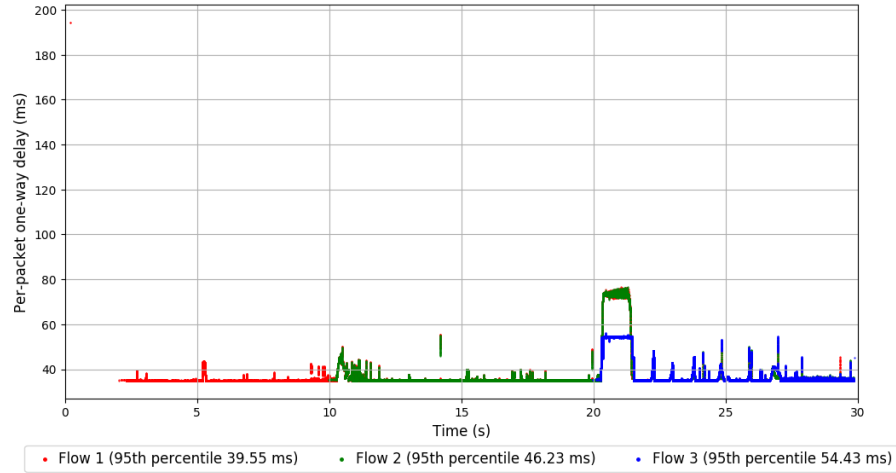
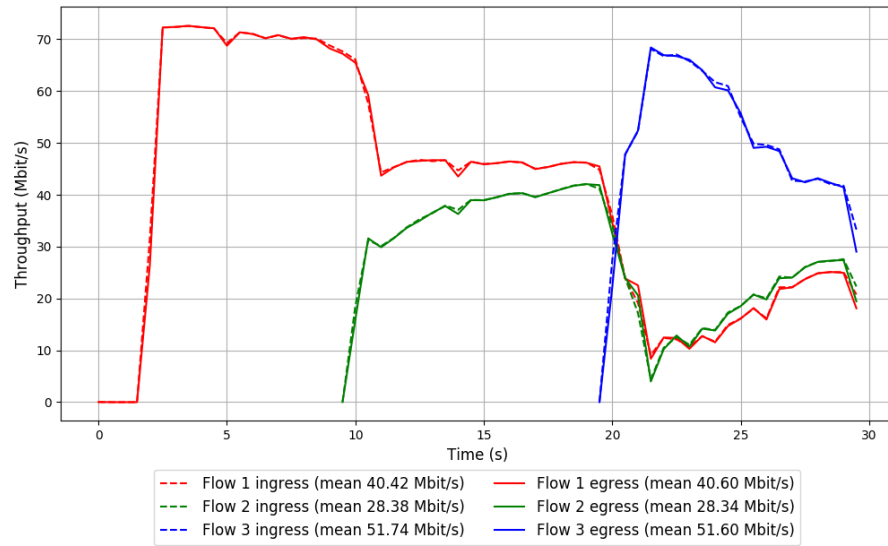
-- Flow 3:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 54.430 ms

Loss rate: 1.06%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Mon, 10 Jul 2017 02:29:06 +0000

End at: Mon, 10 Jul 2017 02:29:36 +0000

Local clock offset: 0.907 ms

Remote clock offset: -1.745 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:35:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 41.112 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 52.54 Mbit/s

95th percentile per-packet one-way delay: 36.195 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 38.522 ms

Loss rate: 0.81%

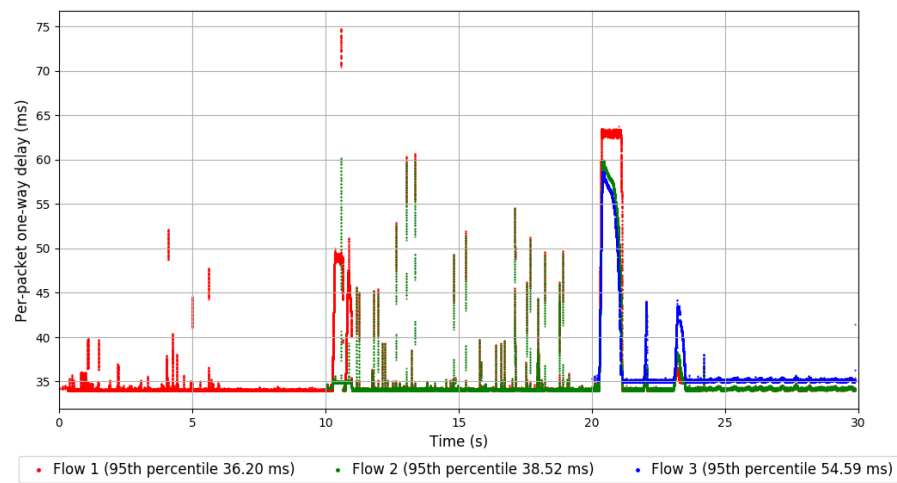
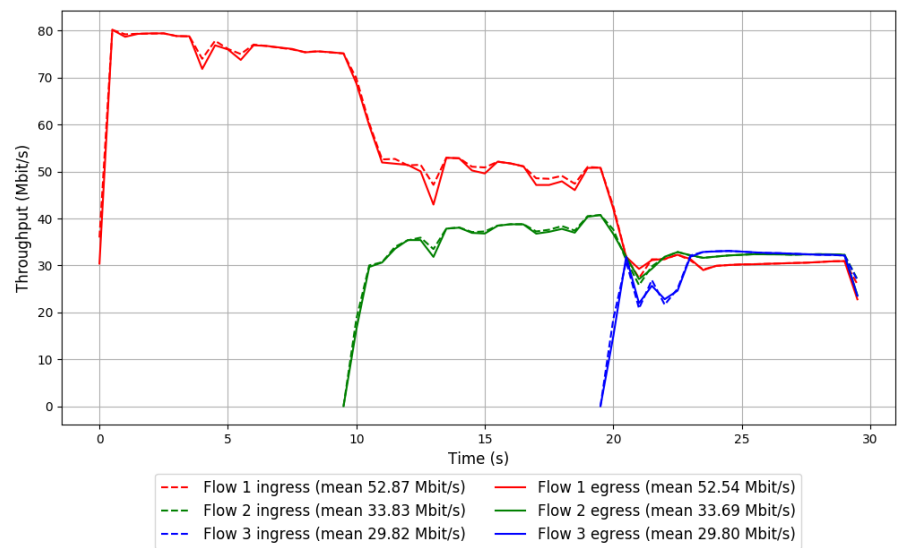
-- Flow 3:

Average throughput: 29.80 Mbit/s

95th percentile per-packet one-way delay: 54.589 ms

Loss rate: 0.94%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Mon, 10 Jul 2017 02:49:46 +0000

End at: Mon, 10 Jul 2017 02:50:16 +0000

Local clock offset: 0.743 ms

Remote clock offset: -1.398 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:35:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 36.838 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 47.67 Mbit/s

95th percentile per-packet one-way delay: 35.850 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 44.416 ms

Loss rate: 0.44%

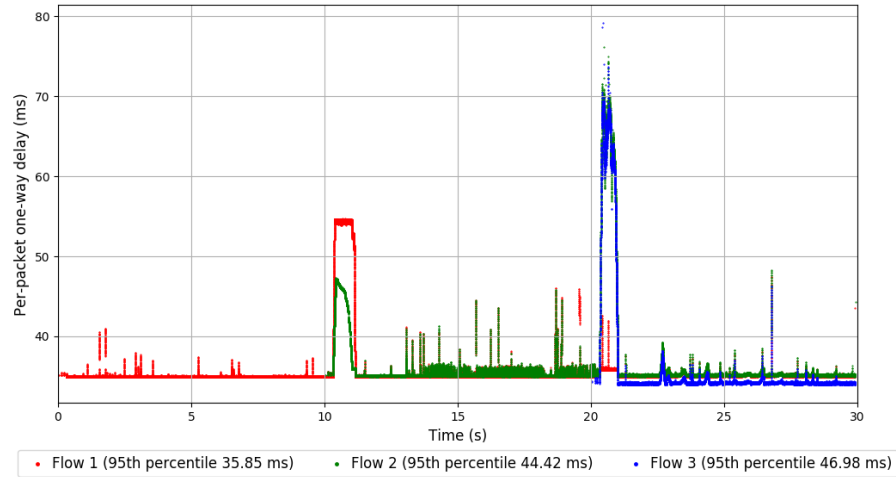
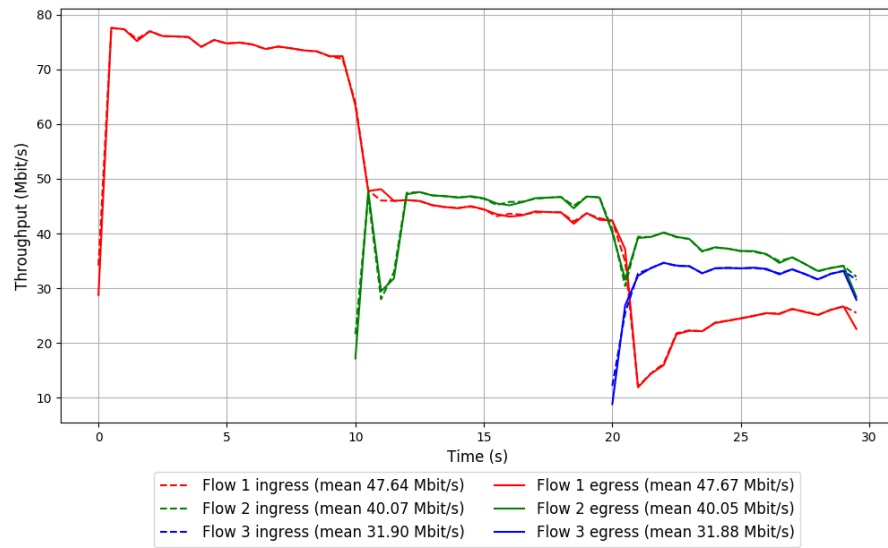
-- Flow 3:

Average throughput: 31.88 Mbit/s

95th percentile per-packet one-way delay: 46.980 ms

Loss rate: 0.93%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Sun, 09 Jul 2017 23:29:25 +0000

End at: Sun, 09 Jul 2017 23:29:55 +0000

Local clock offset: 0.669 ms

Remote clock offset: -1.295 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:35:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 71.034 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: 69.948 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 78.707 ms

Loss rate: 0.62%

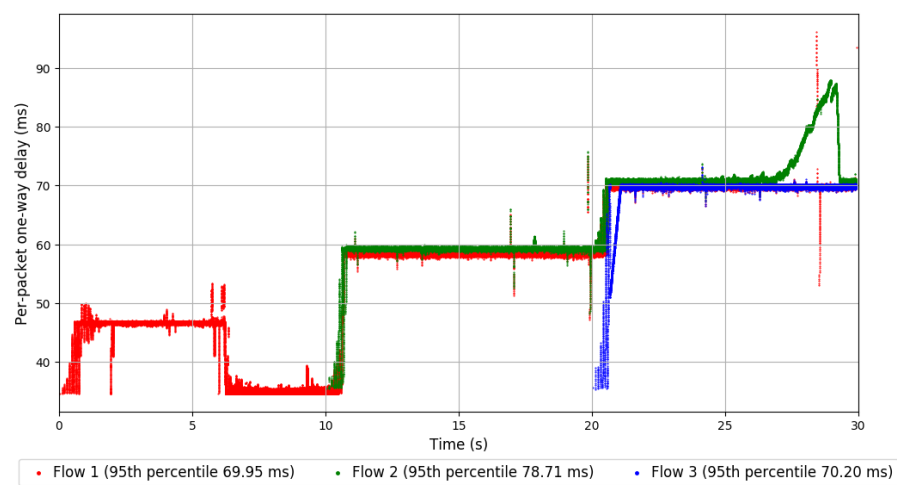
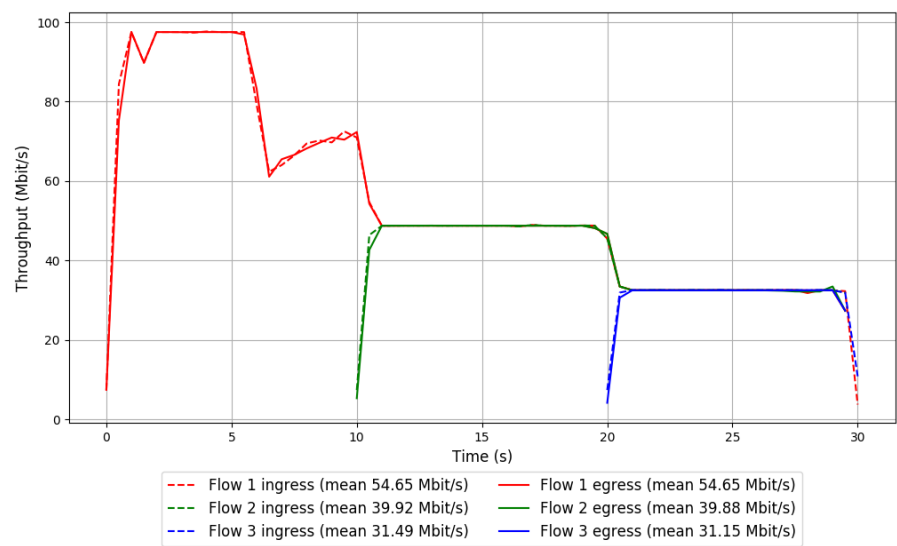
-- Flow 3:

Average throughput: 31.15 Mbit/s

95th percentile per-packet one-way delay: 70.204 ms

Loss rate: 3.13%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Sun, 09 Jul 2017 23:49:54 +0000

End at: Sun, 09 Jul 2017 23:50:24 +0000

Local clock offset: 0.624 ms

Remote clock offset: -3.467 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:35:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 82.042 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 45.73 Mbit/s

95th percentile per-packet one-way delay: 82.011 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 47.77 Mbit/s

95th percentile per-packet one-way delay: 59.495 ms

Loss rate: 0.79%

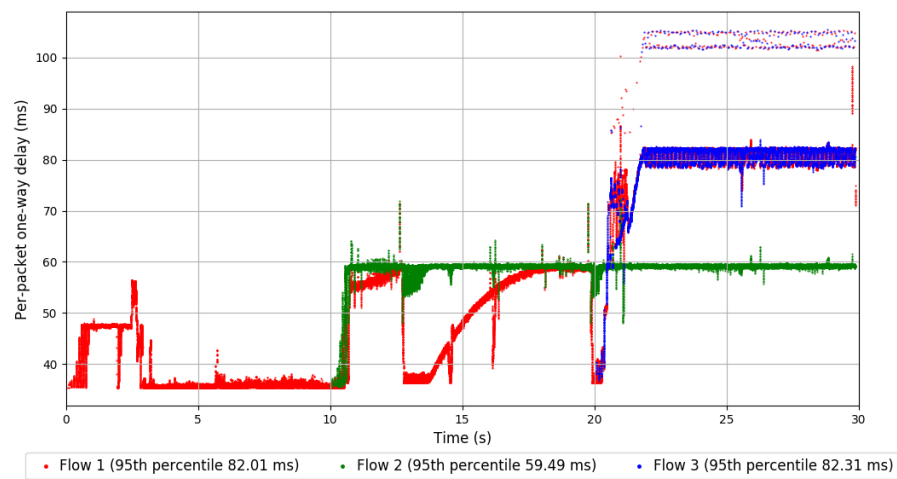
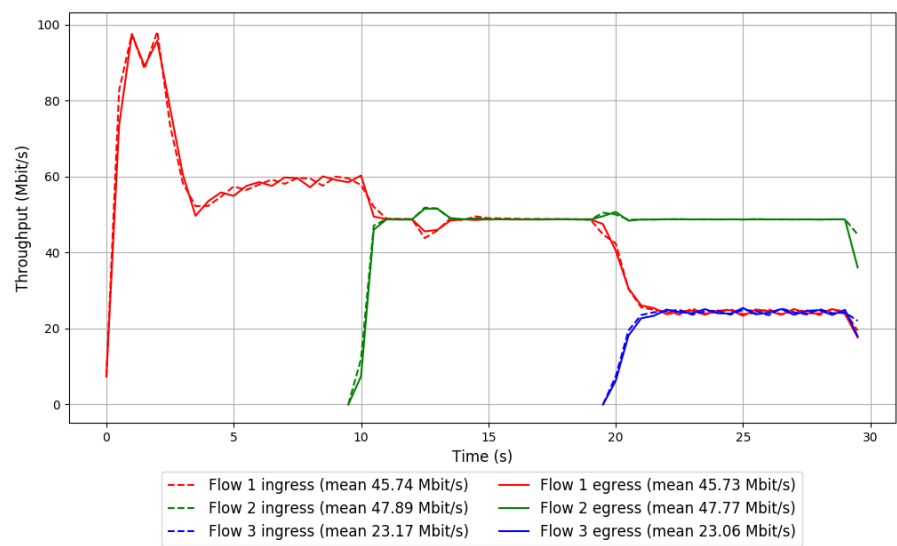
-- Flow 3:

Average throughput: 23.06 Mbit/s

95th percentile per-packet one-way delay: 82.305 ms

Loss rate: 1.64%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 00:10:32 +0000

End at: Mon, 10 Jul 2017 00:11:02 +0000

Local clock offset: 0.653 ms

Remote clock offset: -0.903 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:35:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.40 Mbit/s

95th percentile per-packet one-way delay: 81.193 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 45.40 Mbit/s

95th percentile per-packet one-way delay: 81.041 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: 81.979 ms

Loss rate: 0.68%

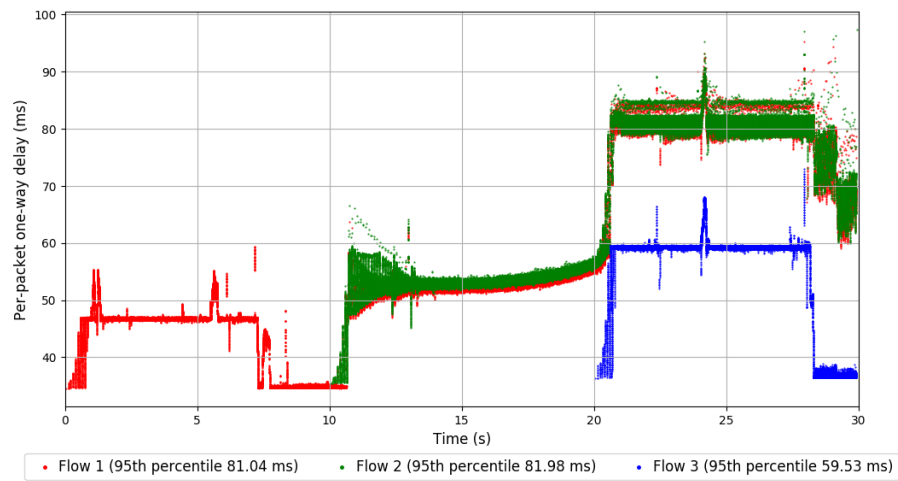
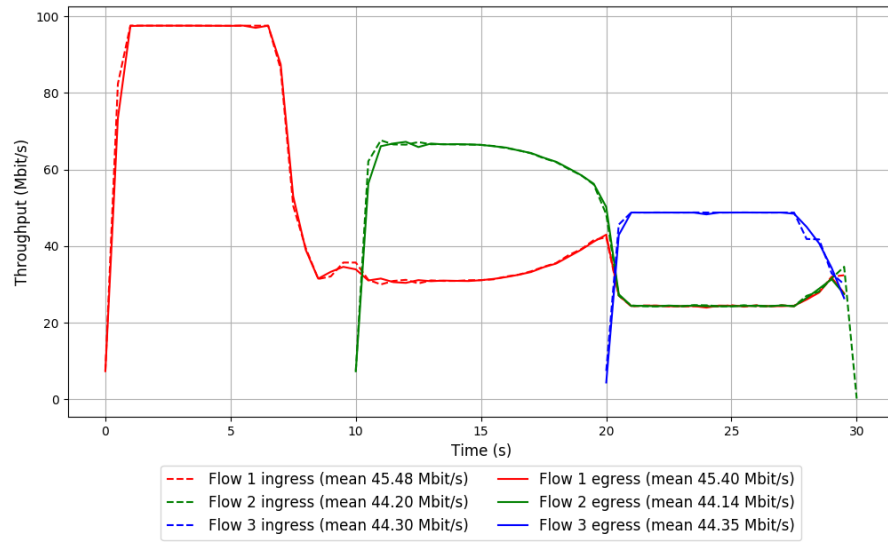
-- Flow 3:

Average throughput: 44.35 Mbit/s

95th percentile per-packet one-way delay: 59.530 ms

Loss rate: 0.75%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 00:31:39 +0000

End at: Mon, 10 Jul 2017 00:32:09 +0000

Local clock offset: 0.605 ms

Remote clock offset: -1.416 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:35:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 80.334 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 79.128 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 82.117 ms

Loss rate: 0.55%

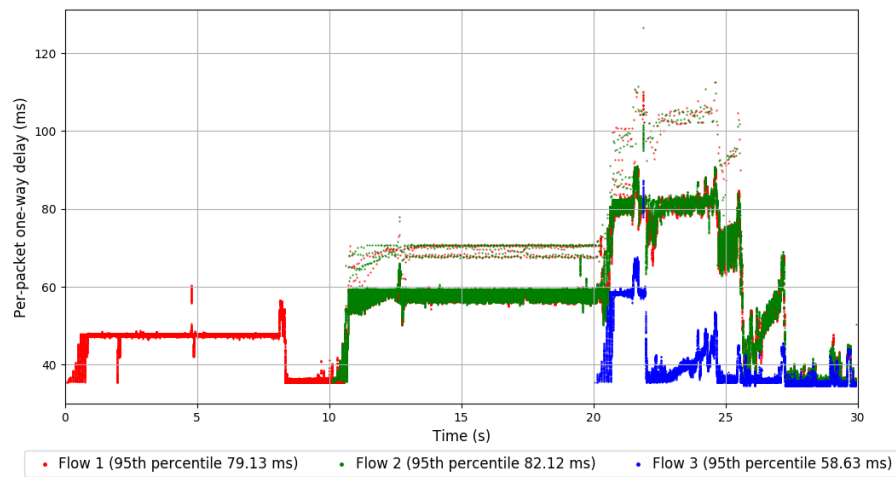
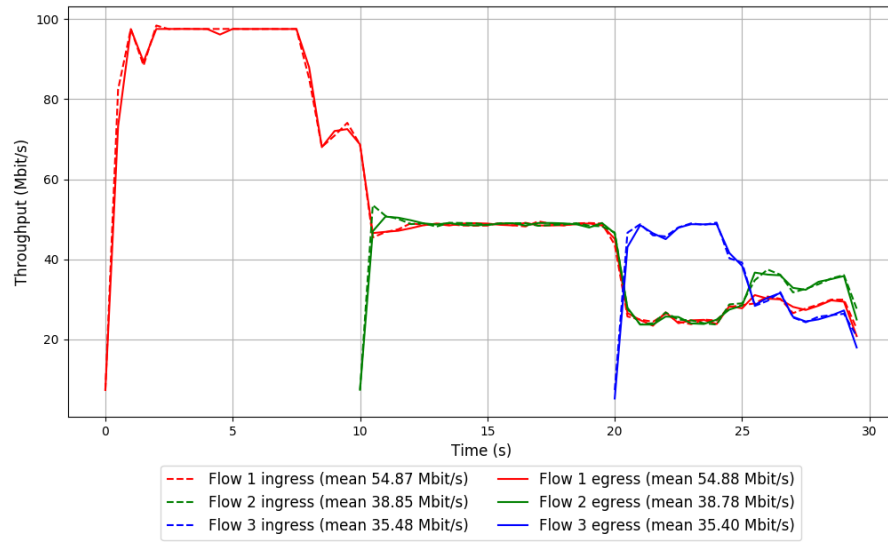
-- Flow 3:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 58.630 ms

Loss rate: 1.09%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 00:52:31 +0000

End at: Mon, 10 Jul 2017 00:53:01 +0000

Local clock offset: 0.511 ms

Remote clock offset: -3.499 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:35:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.21 Mbit/s

95th percentile per-packet one-way delay: 56.647 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 47.870 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 57.712 ms

Loss rate: 0.47%

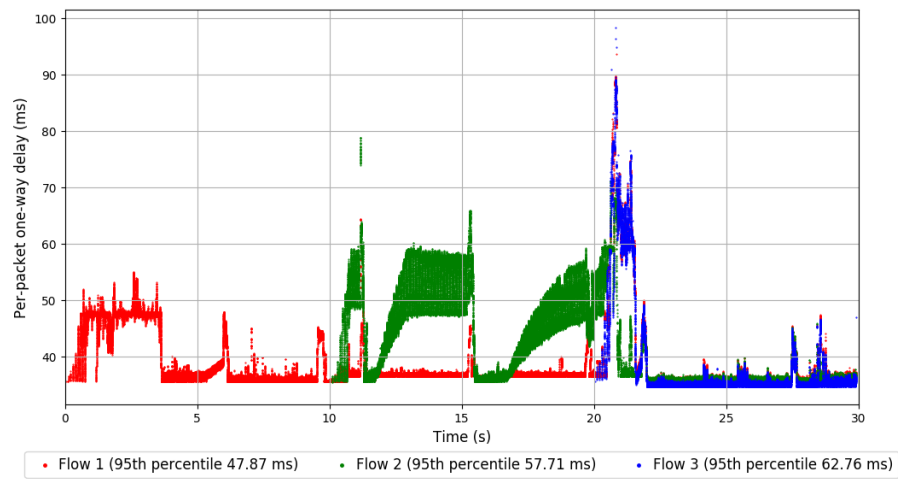
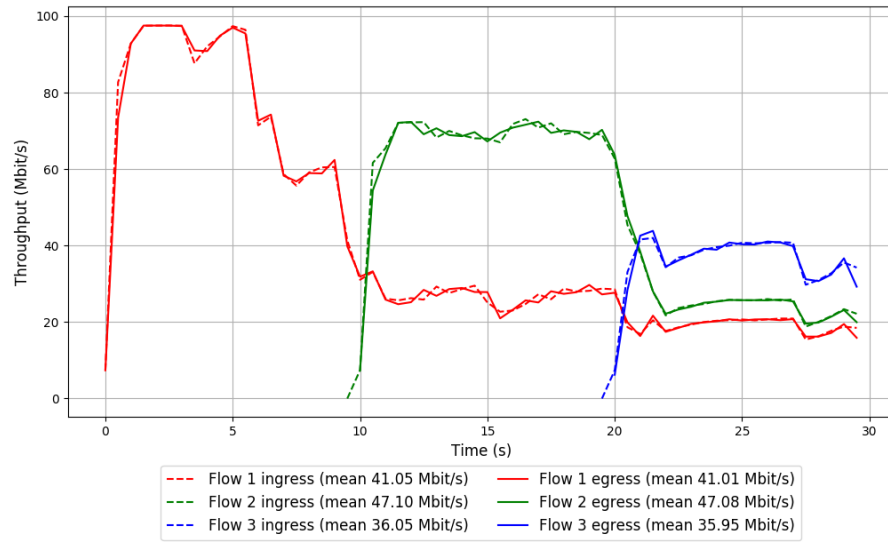
-- Flow 3:

Average throughput: 35.95 Mbit/s

95th percentile per-packet one-way delay: 62.761 ms

Loss rate: 1.05%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 01:13:18 +0000

End at: Mon, 10 Jul 2017 01:13:48 +0000

Local clock offset: 0.661 ms

Remote clock offset: -1.088 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.98 Mbit/s

95th percentile per-packet one-way delay: 58.844 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 51.016 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 38.67 Mbit/s

95th percentile per-packet one-way delay: 61.381 ms

Loss rate: 0.47%

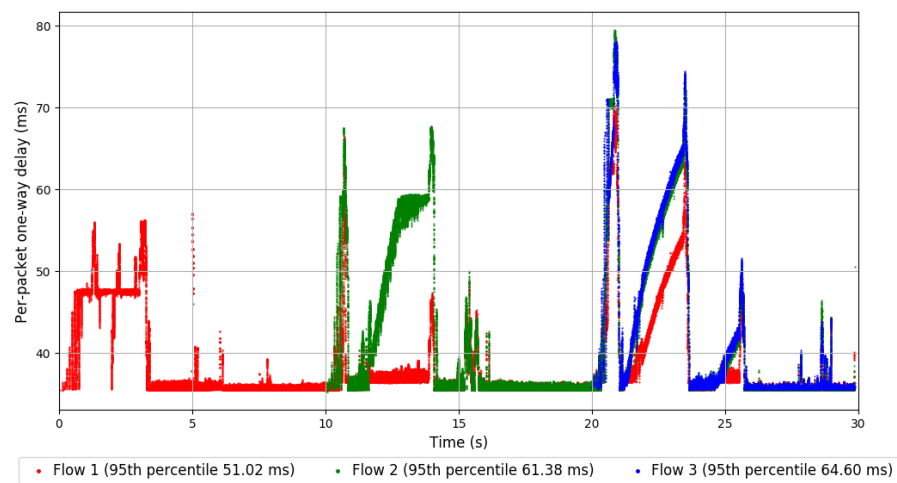
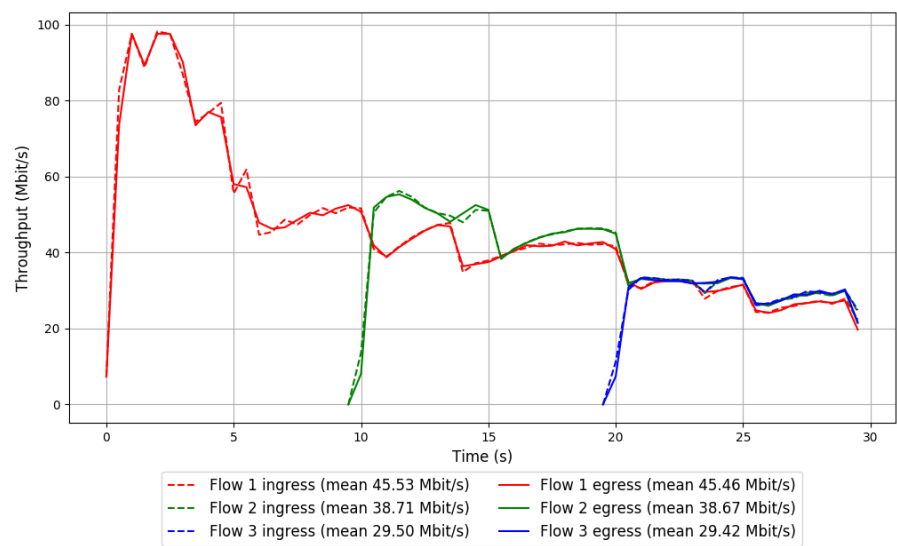
-- Flow 3:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 64.601 ms

Loss rate: 1.13%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 01:34:06 +0000

End at: Mon, 10 Jul 2017 01:34:36 +0000

Local clock offset: 0.703 ms

Remote clock offset: -3.613 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.21 Mbit/s

95th percentile per-packet one-way delay: 67.094 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 54.12 Mbit/s

95th percentile per-packet one-way delay: 57.808 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 69.089 ms

Loss rate: 0.30%

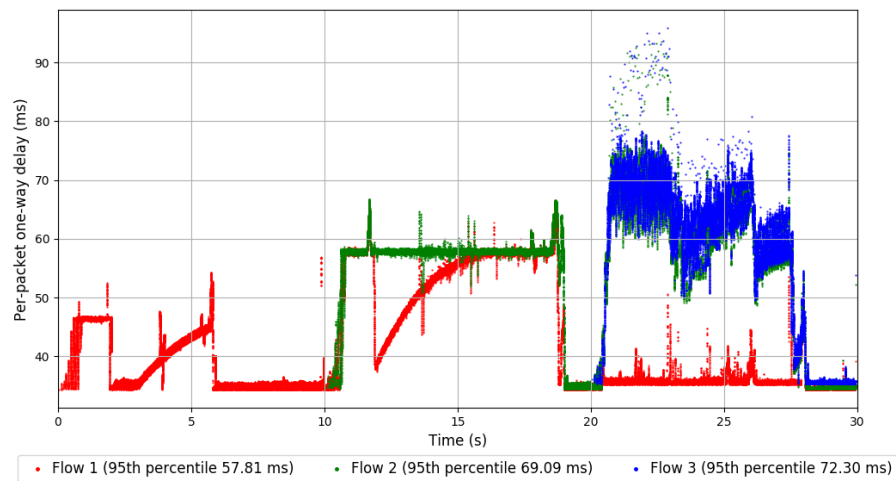
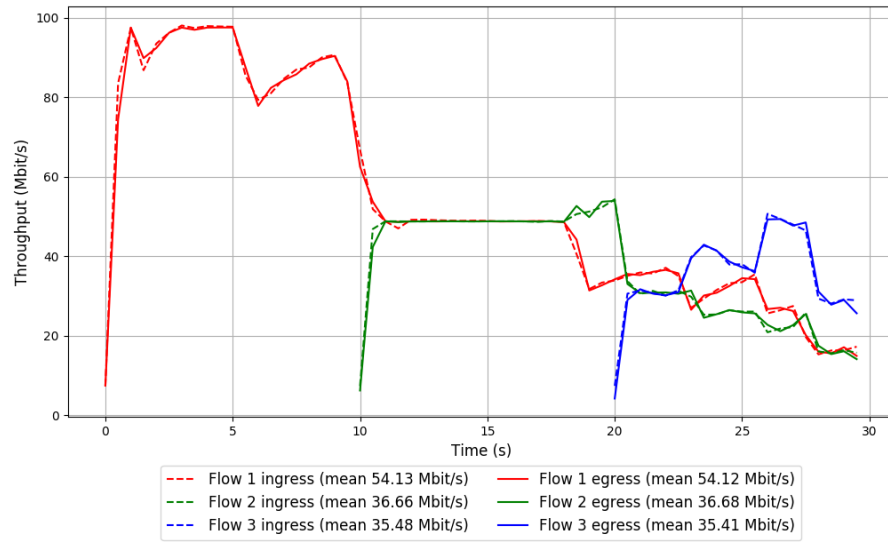
-- Flow 3:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 72.304 ms

Loss rate: 0.90%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 01:54:51 +0000

End at: Mon, 10 Jul 2017 01:55:21 +0000

Local clock offset: 0.789 ms

Remote clock offset: -3.728 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 70.472 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 69.236 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 37.92 Mbit/s

95th percentile per-packet one-way delay: 70.578 ms

Loss rate: 0.33%

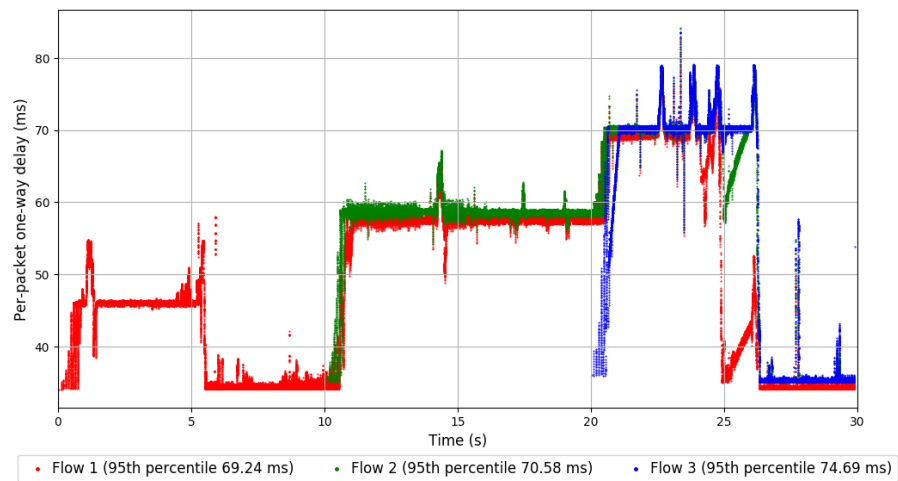
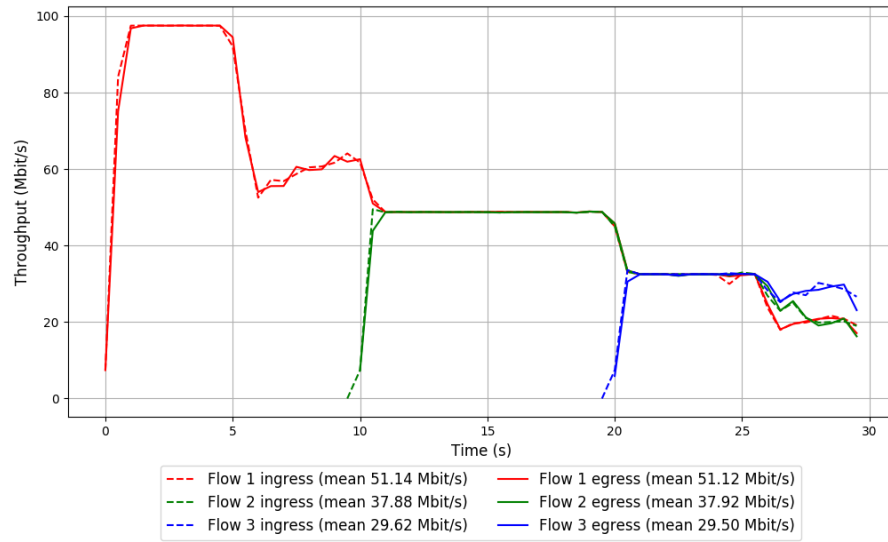
-- Flow 3:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 74.693 ms

Loss rate: 1.07%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 02:15:27 +0000

End at: Mon, 10 Jul 2017 02:15:57 +0000

Local clock offset: 0.929 ms

Remote clock offset: -1.271 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 79.125 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 47.57 Mbit/s

95th percentile per-packet one-way delay: 79.544 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 47.62 Mbit/s

95th percentile per-packet one-way delay: 57.857 ms

Loss rate: 0.68%

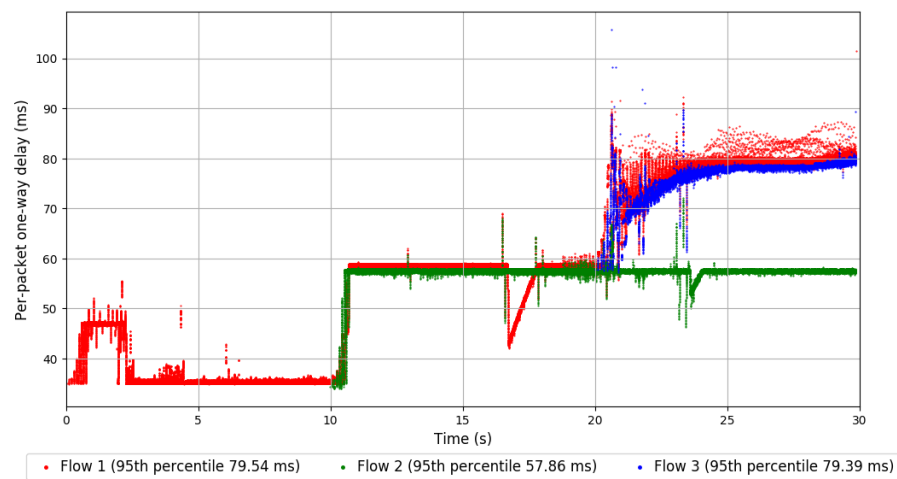
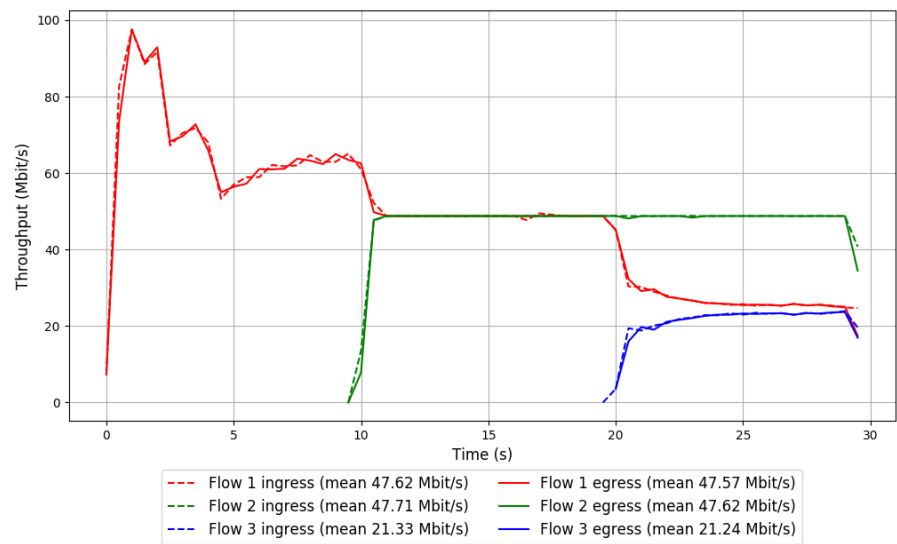
-- Flow 3:

Average throughput: 21.24 Mbit/s

95th percentile per-packet one-way delay: 79.393 ms

Loss rate: 1.55%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 02:36:04 +0000

End at: Mon, 10 Jul 2017 02:36:34 +0000

Local clock offset: 0.926 ms

Remote clock offset: -1.818 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 58.502 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 58.477 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 58.541 ms

Loss rate: 0.62%

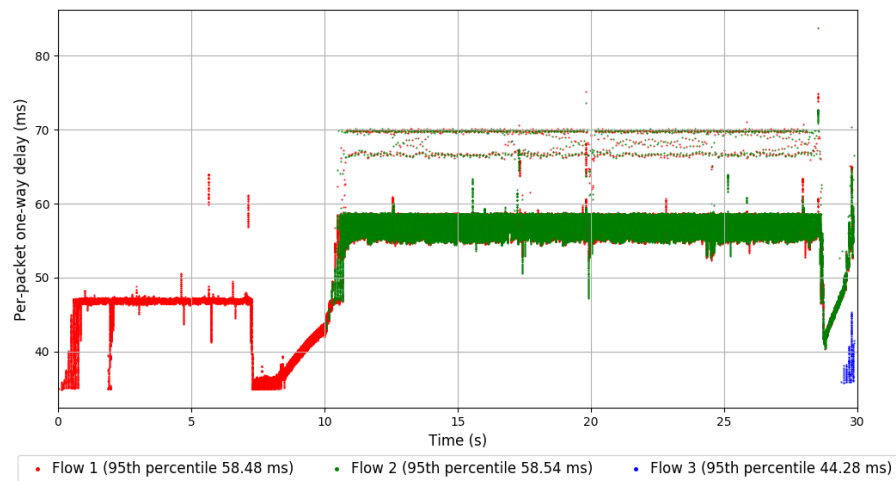
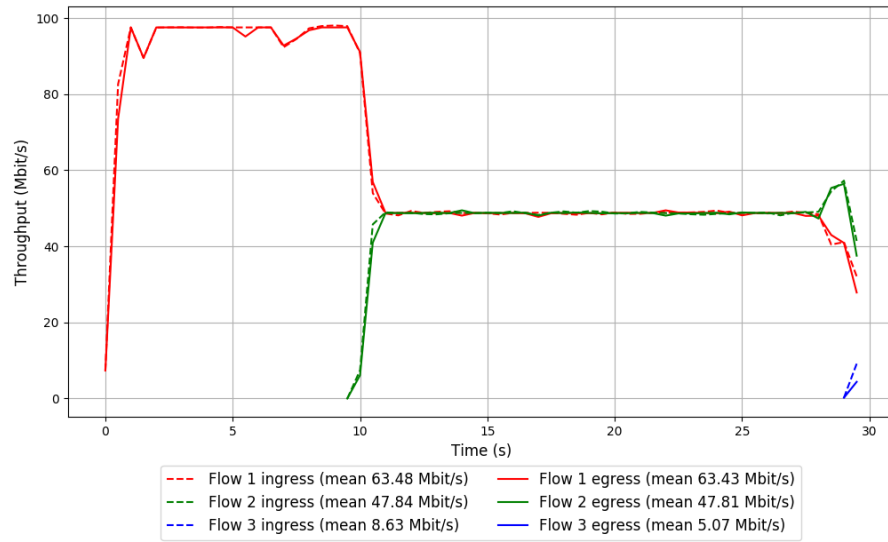
-- Flow 3:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 44.284 ms

Loss rate: 50.74%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Sun, 09 Jul 2017 23:44:22 +0000

End at: Sun, 09 Jul 2017 23:44:52 +0000

Local clock offset: 0.596 ms

Remote clock offset: -1.611 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 36.036 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 36.127 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 35.354 ms

Loss rate: 0.45%

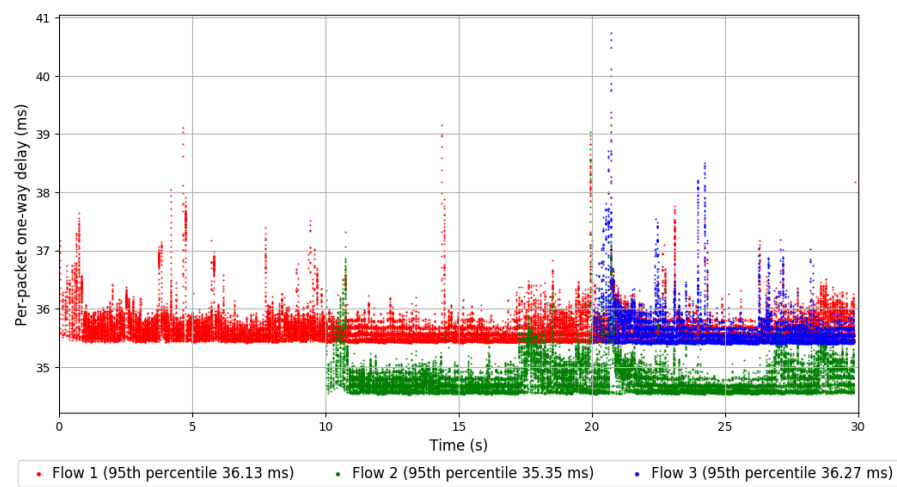
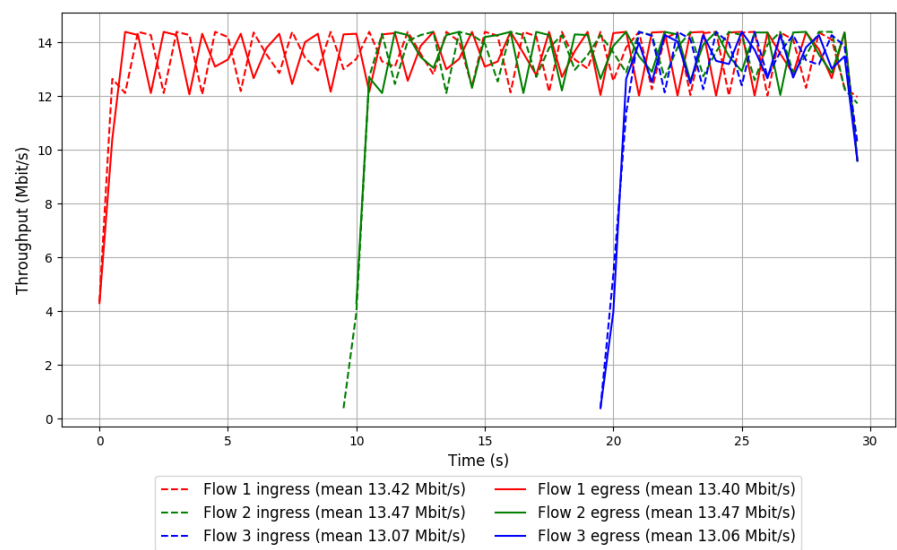
-- Flow 3:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 36.267 ms

Loss rate: 0.92%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 00:05:04 +0000

End at: Mon, 10 Jul 2017 00:05:34 +0000

Local clock offset: 0.721 ms

Remote clock offset: -0.977 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.53 Mbit/s

95th percentile per-packet one-way delay: 36.287 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 36.398 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 36.247 ms

Loss rate: 0.46%

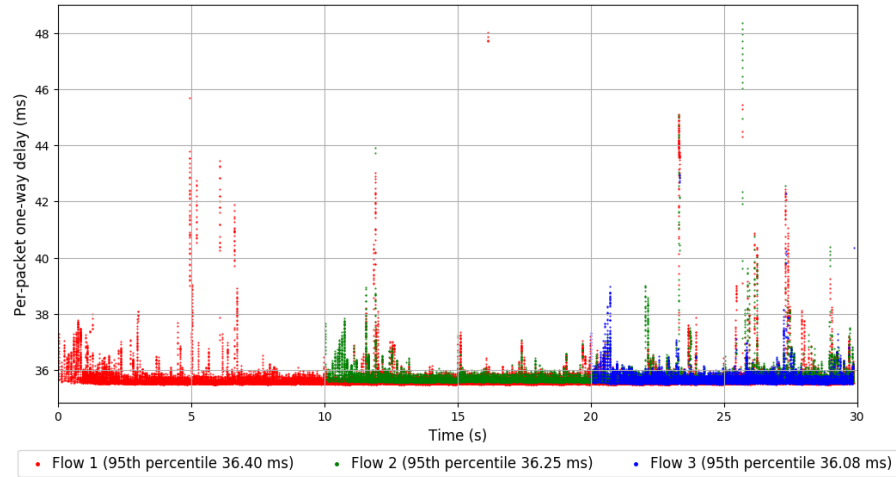
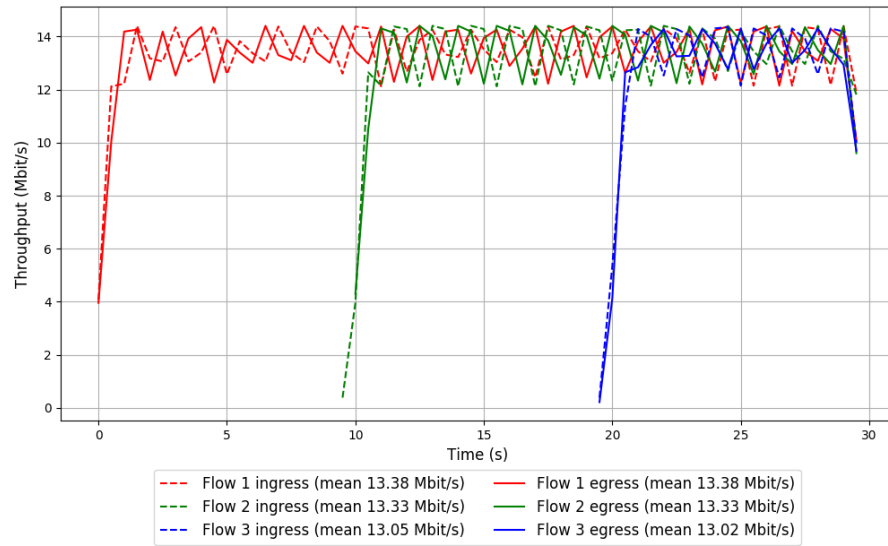
-- Flow 3:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 36.076 ms

Loss rate: 0.92%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 00:26:10 +0000

End at: Mon, 10 Jul 2017 00:26:40 +0000

Local clock offset: 0.628 ms

Remote clock offset: -1.468 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 36.421 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 36.432 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 13.44 Mbit/s

95th percentile per-packet one-way delay: 36.069 ms

Loss rate: 0.45%

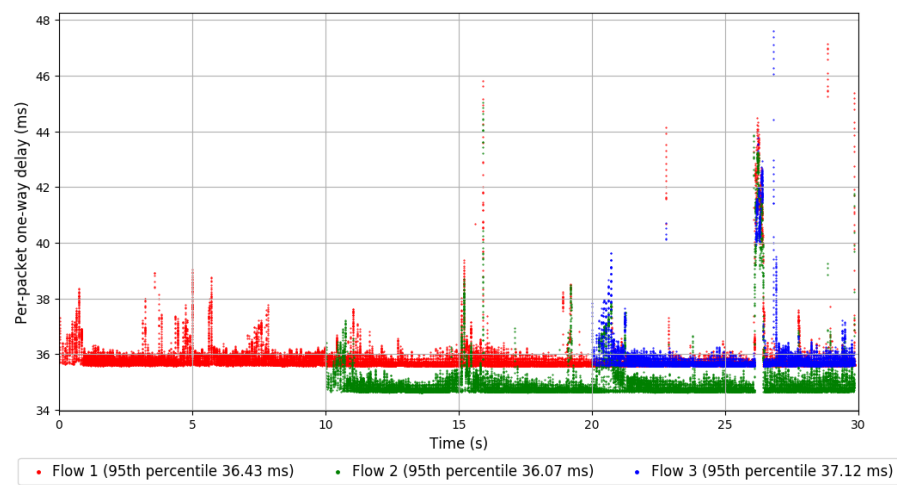
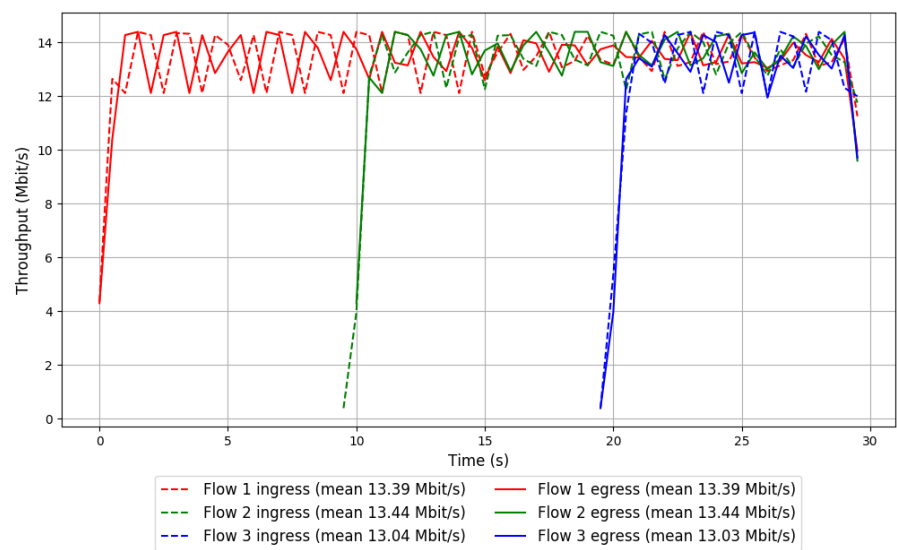
-- Flow 3:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 37.118 ms

Loss rate: 0.92%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 00:47:01 +0000

End at: Mon, 10 Jul 2017 00:47:31 +0000

Local clock offset: 0.608 ms

Remote clock offset: -1.45 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 37.112 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 36.881 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 37.239 ms

Loss rate: 0.47%

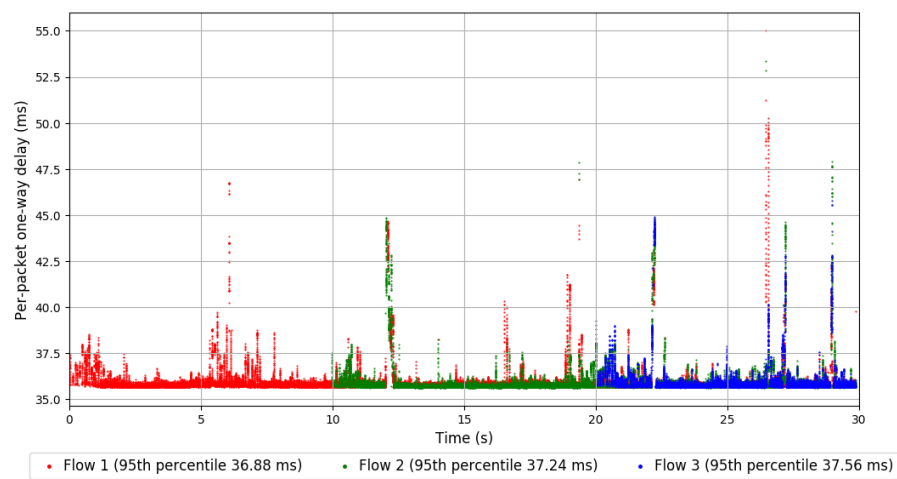
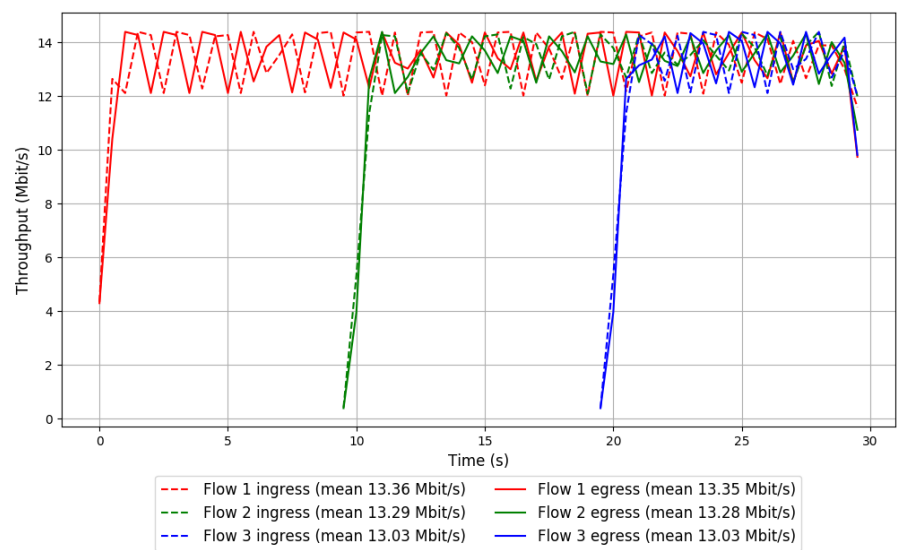
-- Flow 3:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 37.565 ms

Loss rate: 0.94%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 01:07:50 +0000

End at: Mon, 10 Jul 2017 01:08:20 +0000

Local clock offset: 0.64 ms

Remote clock offset: -1.053 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.61 Mbit/s

95th percentile per-packet one-way delay: 36.356 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 36.465 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 35.987 ms

Loss rate: 0.45%

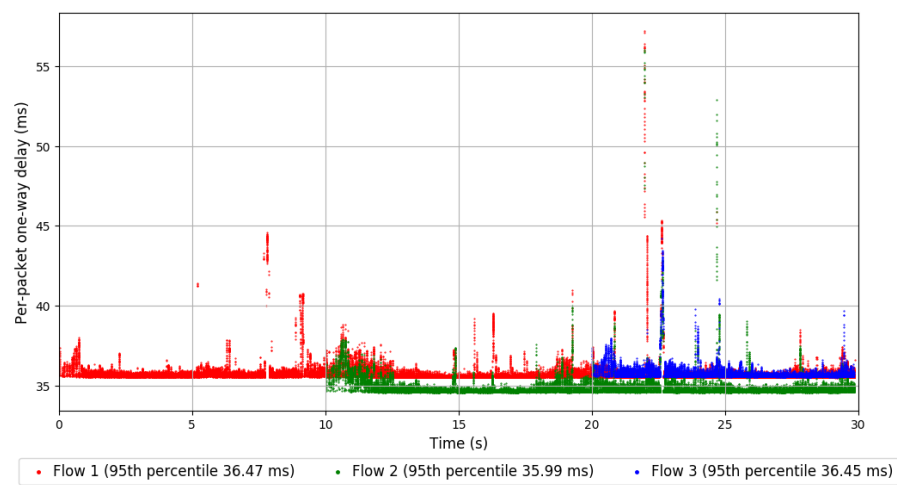
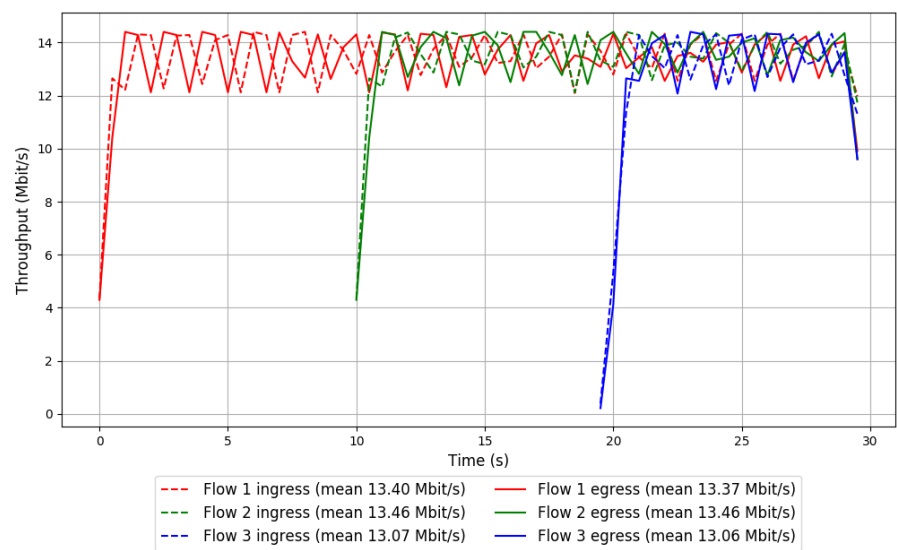
-- Flow 3:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 36.448 ms

Loss rate: 0.93%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 01:28:36 +0000

End at: Mon, 10 Jul 2017 01:29:06 +0000

Local clock offset: 0.778 ms

Remote clock offset: -1.192 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.79 Mbit/s

95th percentile per-packet one-way delay: 35.800 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 35.381 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 35.198 ms

Loss rate: 0.51%

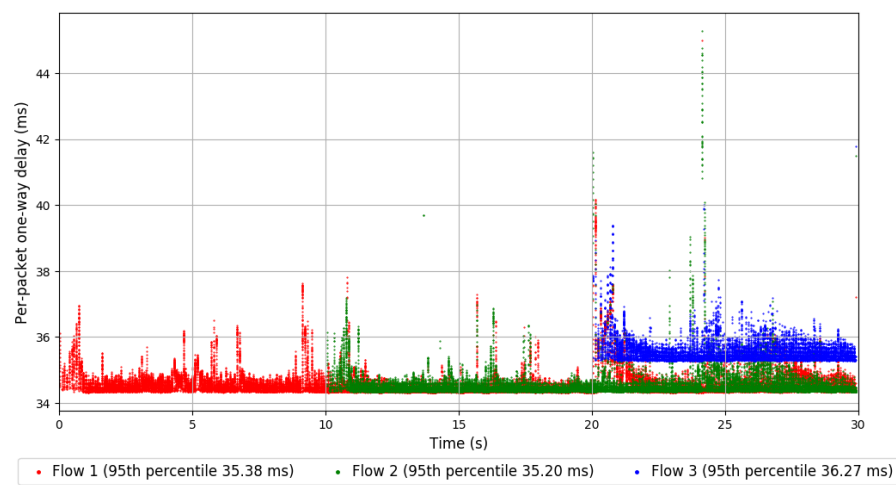
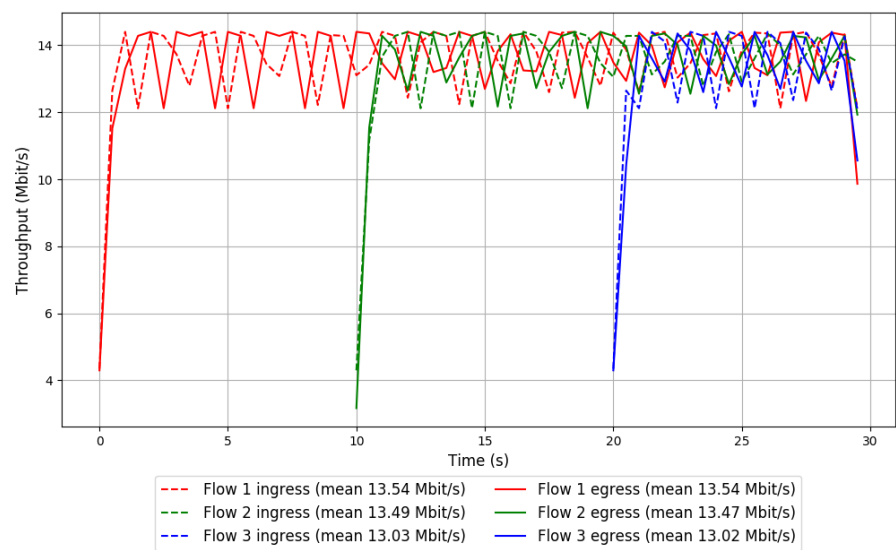
-- Flow 3:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 36.268 ms

Loss rate: 0.92%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 01:49:19 +0000

End at: Mon, 10 Jul 2017 01:49:49 +0000

Local clock offset: 0.863 ms

Remote clock offset: -1.679 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 35.922 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 36.006 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 35.679 ms

Loss rate: 0.54%

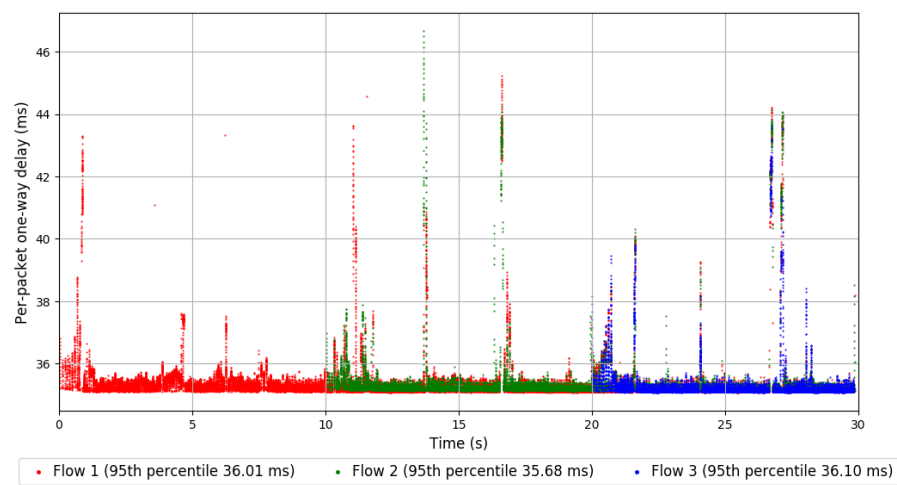
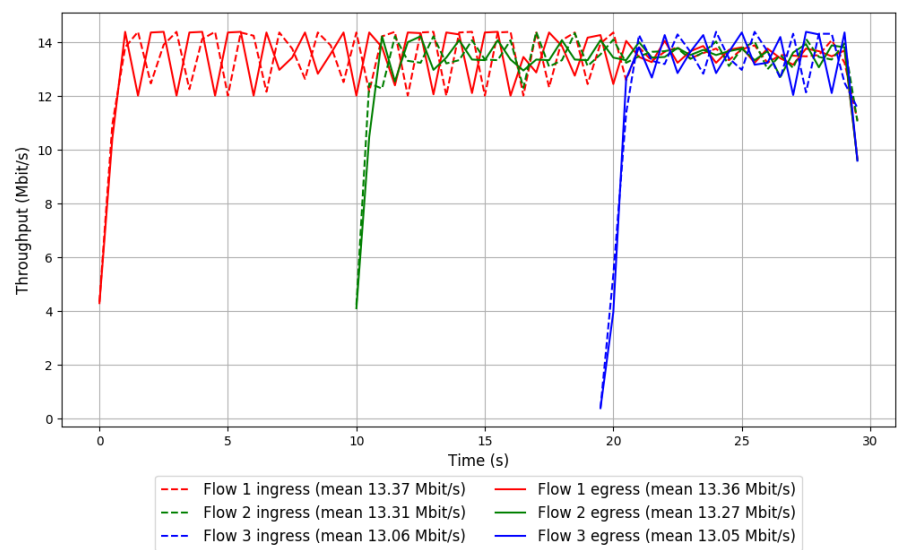
-- Flow 3:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 36.105 ms

Loss rate: 0.96%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 02:09:59 +0000

End at: Mon, 10 Jul 2017 02:10:29 +0000

Local clock offset: 0.917 ms

Remote clock offset: -1.842 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 35.870 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 36.057 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 35.164 ms

Loss rate: 0.45%

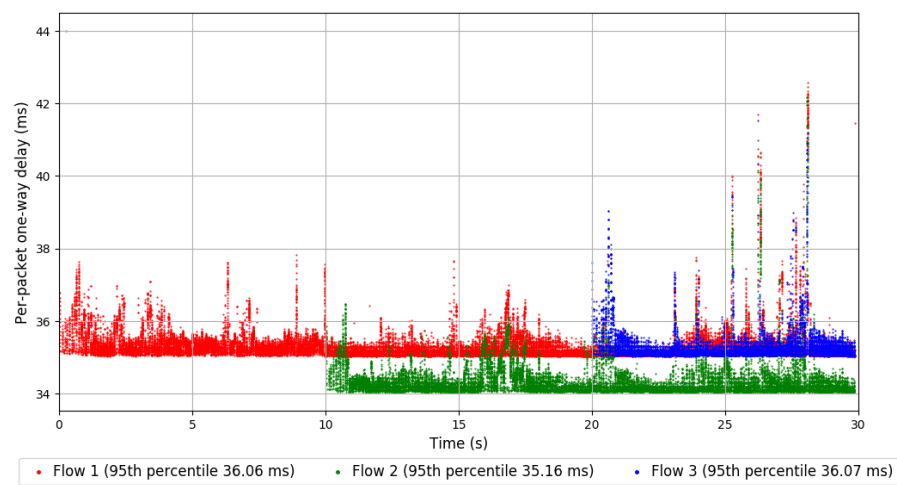
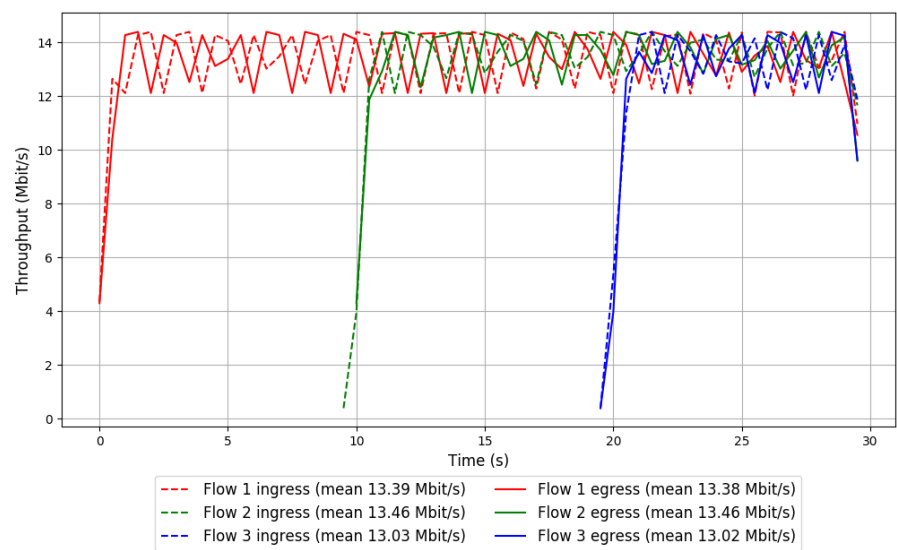
-- Flow 3:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 36.070 ms

Loss rate: 0.93%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 02:30:34 +0000

End at: Mon, 10 Jul 2017 02:31:04 +0000

Local clock offset: 0.938 ms

Remote clock offset: -1.249 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 35.833 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 36.052 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 35.736 ms

Loss rate: 0.62%

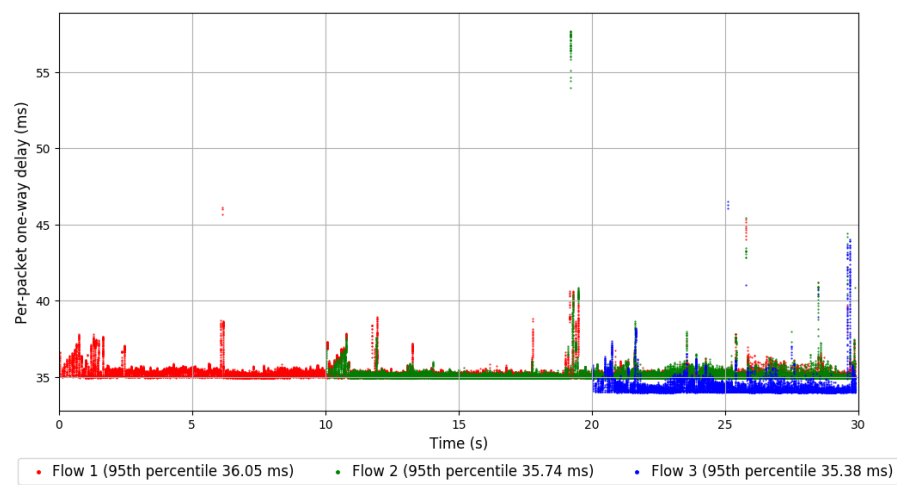
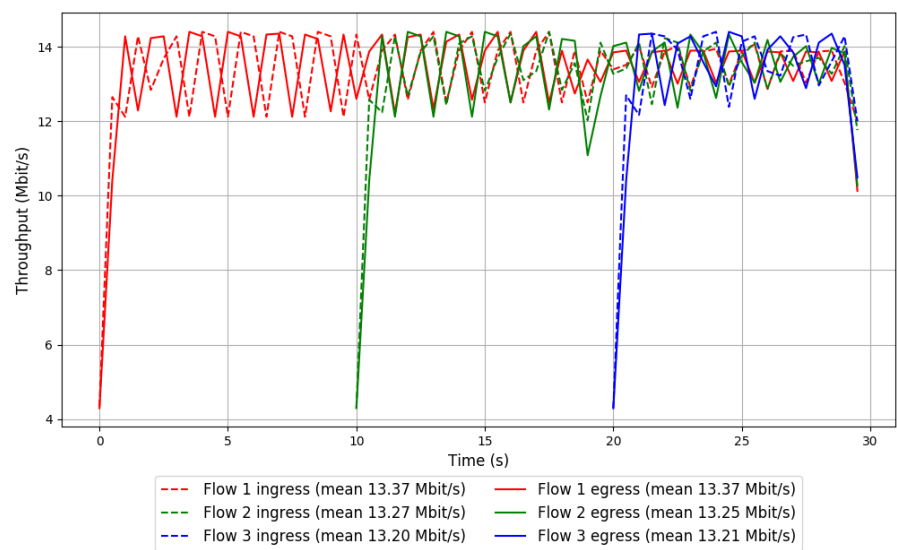
-- Flow 3:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 35.380 ms

Loss rate: 0.92%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 02:51:14 +0000

End at: Mon, 10 Jul 2017 02:51:44 +0000

Local clock offset: 0.752 ms

Remote clock offset: -4.014 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.64 Mbit/s

95th percentile per-packet one-way delay: 35.445 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 13.44 Mbit/s

95th percentile per-packet one-way delay: 35.477 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 35.313 ms

Loss rate: 0.50%

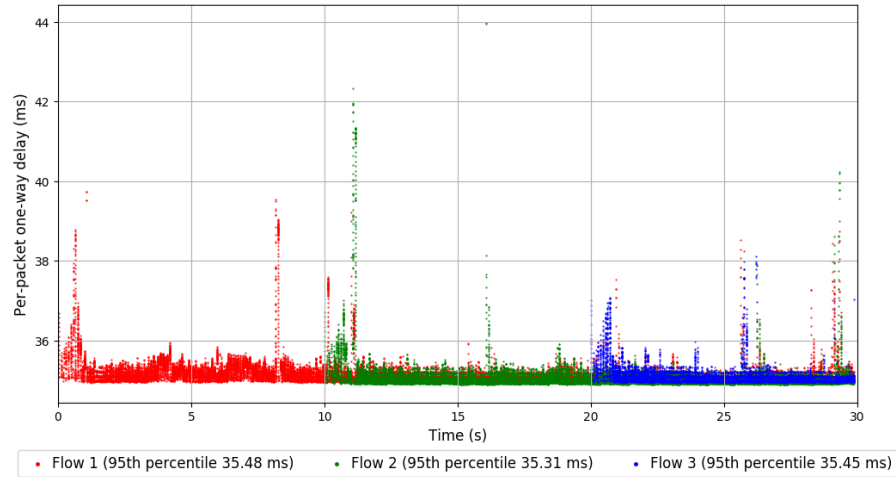
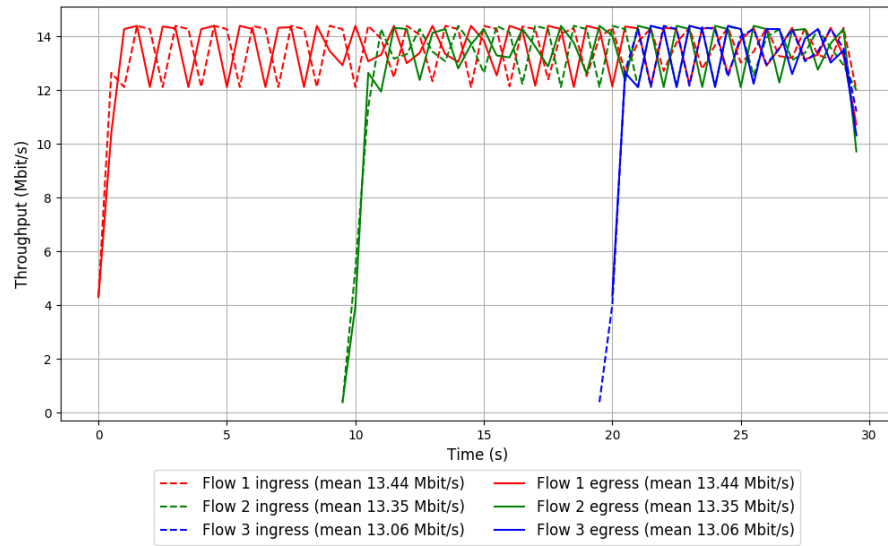
-- Flow 3:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 35.447 ms

Loss rate: 0.89%

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Sun, 09 Jul 2017 23:26:38 +0000

End at: Sun, 09 Jul 2017 23:27:08 +0000

Local clock offset: 0.56 ms

Remote clock offset: -0.735 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.46 Mbit/s

95th percentile per-packet one-way delay: 68.873 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 24.13 Mbit/s

95th percentile per-packet one-way delay: 68.826 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 26.30 Mbit/s

95th percentile per-packet one-way delay: 69.438 ms

Loss rate: 0.78%

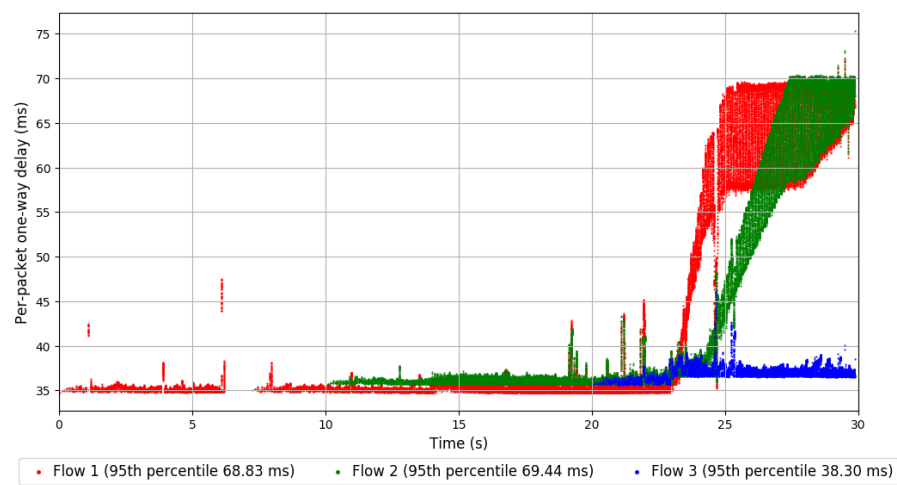
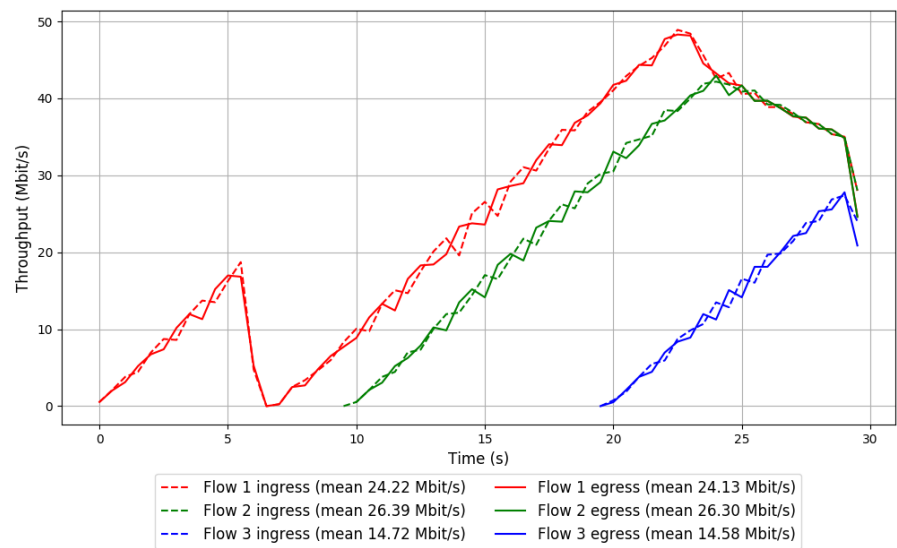
-- Flow 3:

Average throughput: 14.58 Mbit/s

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

Loss rate: 1.77%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Sun, 09 Jul 2017 23:47:06 +0000

End at: Sun, 09 Jul 2017 23:47:36 +0000

Local clock offset: 0.691 ms

Remote clock offset: -1.012 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.47 Mbit/s

95th percentile per-packet one-way delay: 37.767 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 37.855 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 37.683 ms

Loss rate: 0.76%

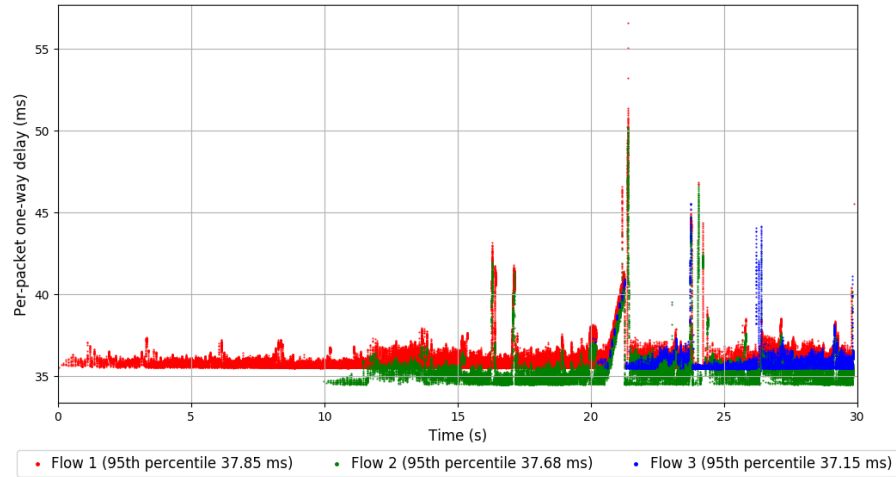
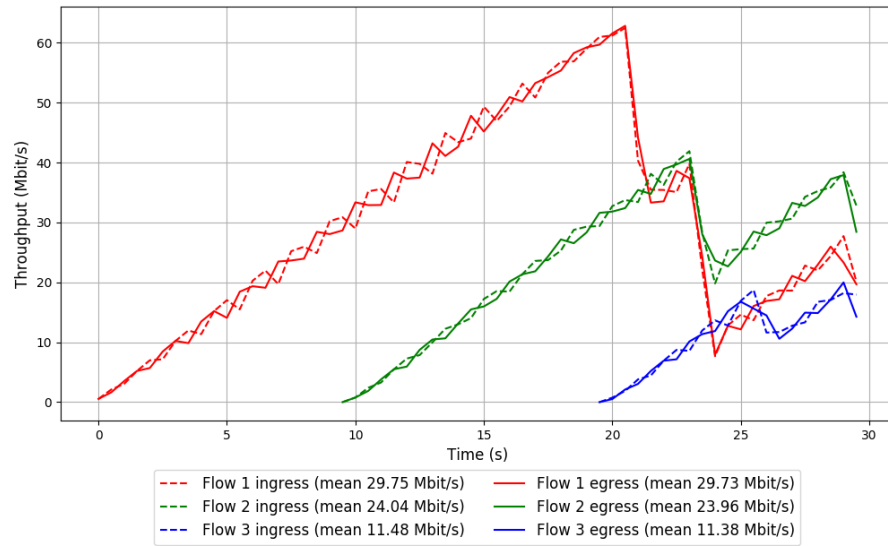
-- Flow 3:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 37.150 ms

Loss rate: 1.78%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 00:07:46 +0000

End at: Mon, 10 Jul 2017 00:08:16 +0000

Local clock offset: 0.657 ms

Remote clock offset: -1.324 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:36:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.24 Mbit/s

95th percentile per-packet one-way delay: 38.488 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 18.06 Mbit/s

95th percentile per-packet one-way delay: 39.085 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 37.651 ms

Loss rate: 0.84%

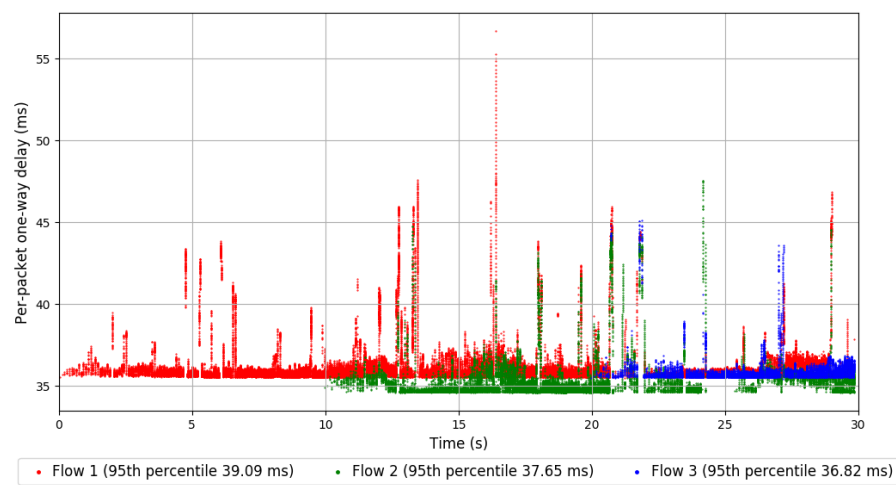
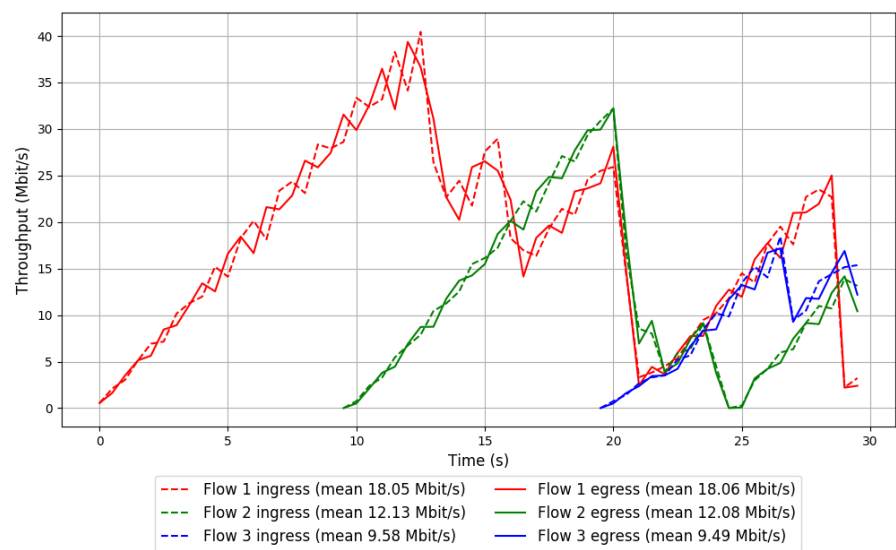
-- Flow 3:

Average throughput: 9.49 Mbit/s

95th percentile per-packet one-way delay: 36.816 ms

Loss rate: 1.82%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 00:28:52 +0000

End at: Mon, 10 Jul 2017 00:29:22 +0000

Local clock offset: 0.731 ms

Remote clock offset: -3.49 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 64.020 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 58.708 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 26.39 Mbit/s

95th percentile per-packet one-way delay: 66.719 ms

Loss rate: 0.88%

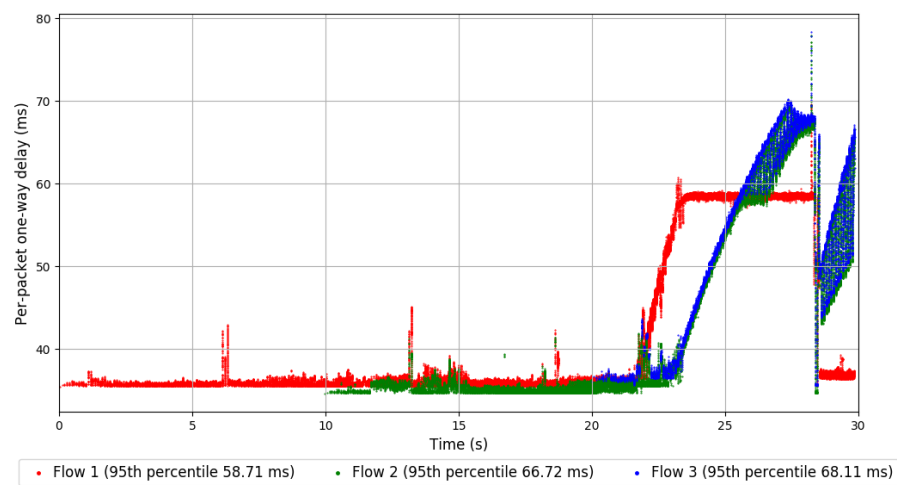
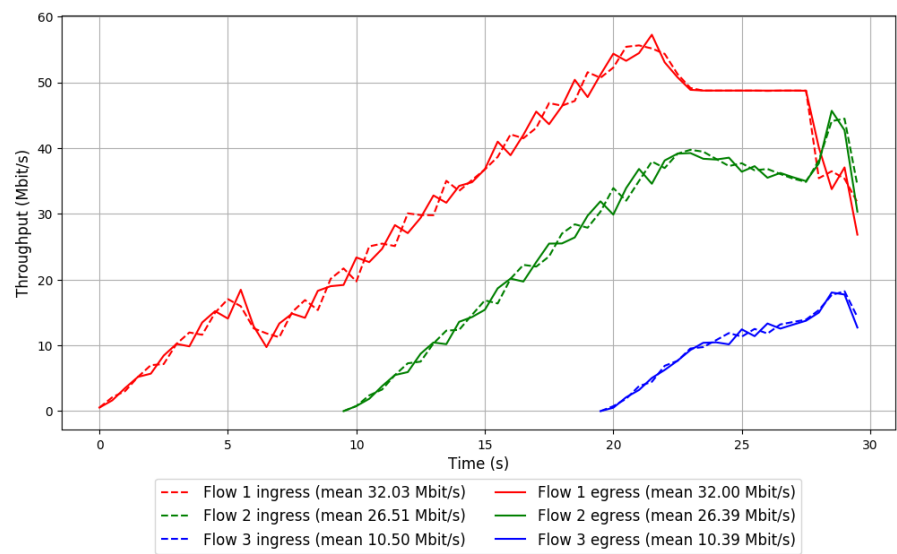
-- Flow 3:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 68.108 ms

Loss rate: 1.91%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 00:49:45 +0000

End at: Mon, 10 Jul 2017 00:50:15 +0000

Local clock offset: 0.639 ms

Remote clock offset: -1.408 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 37.679 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 17.94 Mbit/s

95th percentile per-packet one-way delay: 37.065 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 25.29 Mbit/s

95th percentile per-packet one-way delay: 37.818 ms

Loss rate: 0.37%

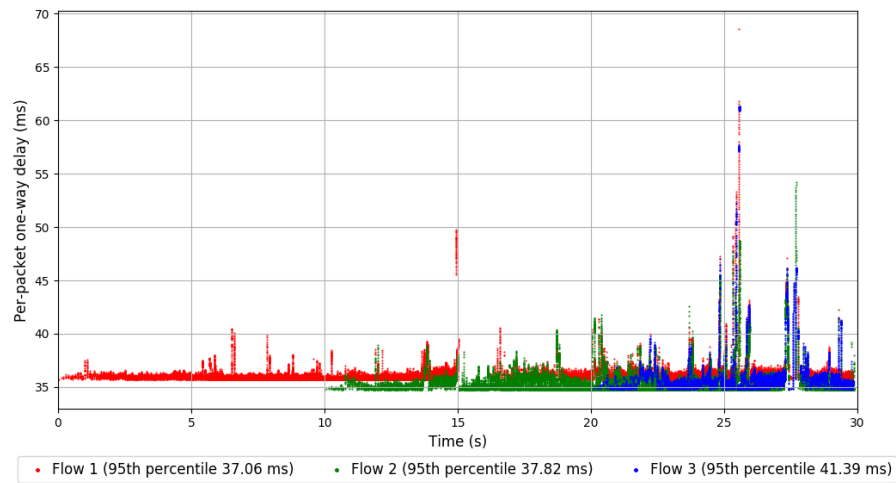
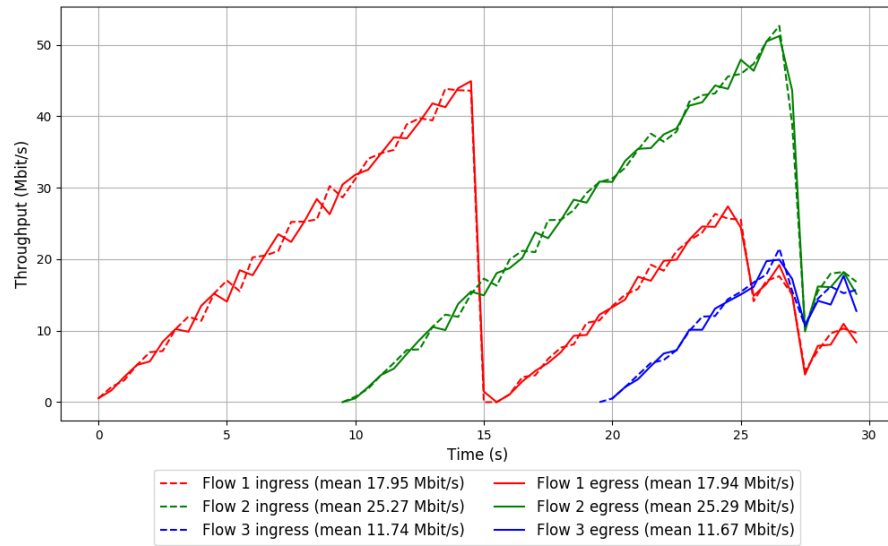
-- Flow 3:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 41.389 ms

Loss rate: 1.44%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 01:10:32 +0000

End at: Mon, 10 Jul 2017 01:11:02 +0000

Local clock offset: 0.585 ms

Remote clock offset: -0.977 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.74 Mbit/s

95th percentile per-packet one-way delay: 37.848 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 38.104 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 37.768 ms

Loss rate: 0.56%

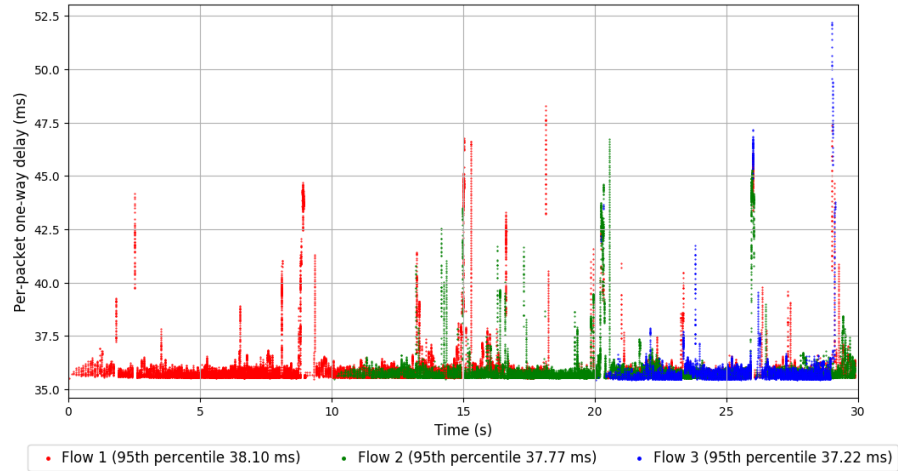
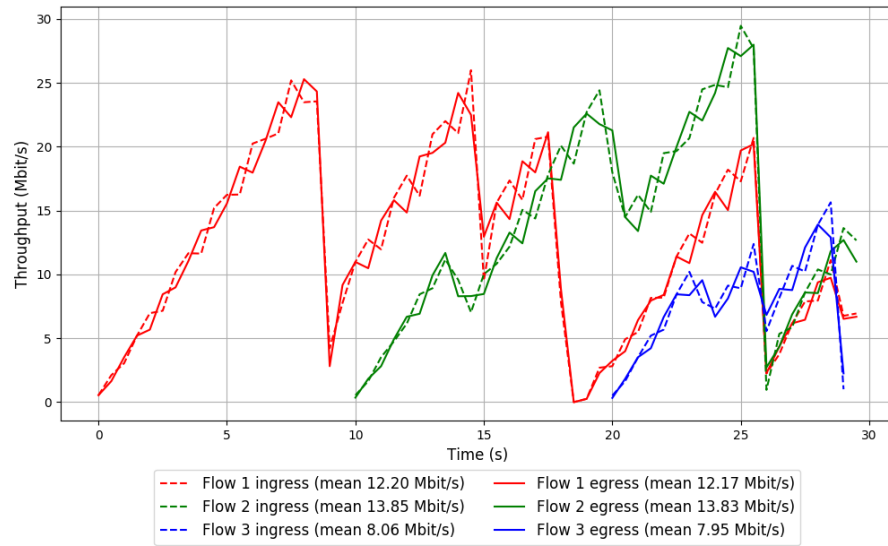
-- Flow 3:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 37.218 ms

Loss rate: 1.25%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 01:31:19 +0000

End at: Mon, 10 Jul 2017 01:31:49 +0000

Local clock offset: 0.787 ms

Remote clock offset: -3.612 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 37.557 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 18.96 Mbit/s

95th percentile per-packet one-way delay: 37.163 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 18.97 Mbit/s

95th percentile per-packet one-way delay: 38.314 ms

Loss rate: 0.57%

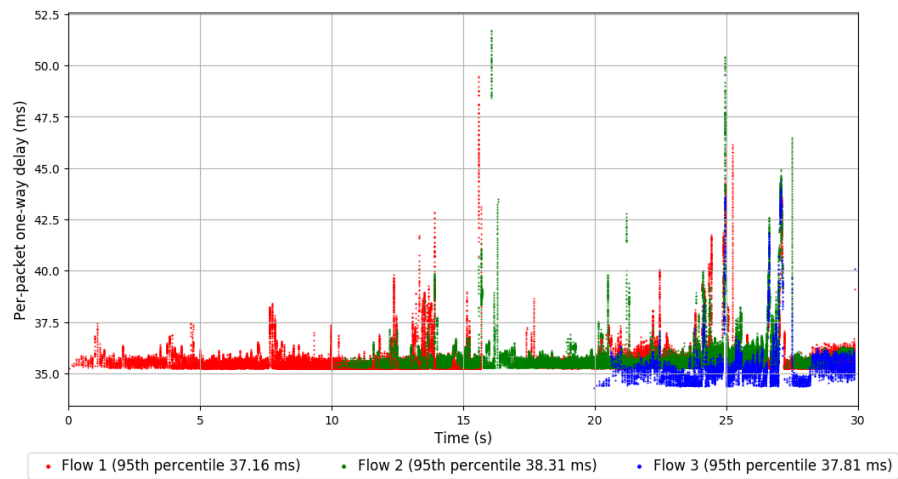
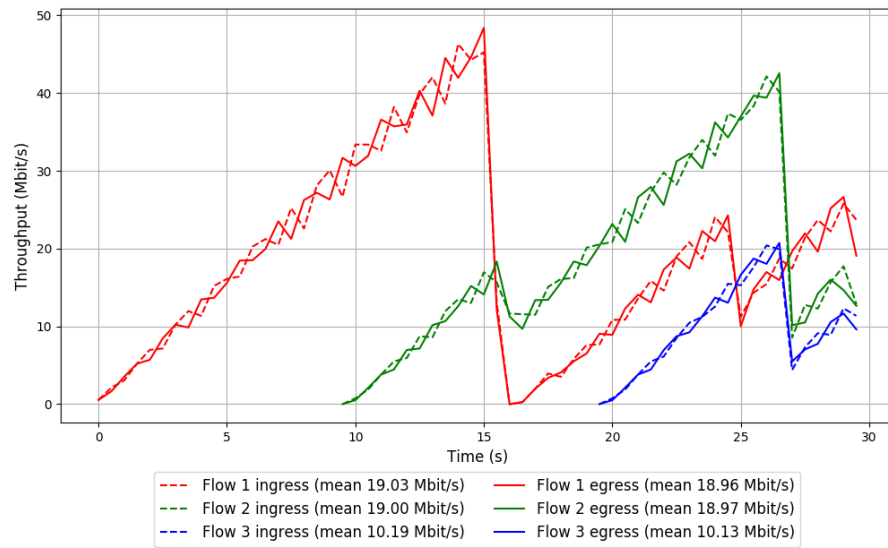
-- Flow 3:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 37.808 ms

Loss rate: 1.40%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 01:52:03 +0000

End at: Mon, 10 Jul 2017 01:52:33 +0000

Local clock offset: 0.881 ms

Remote clock offset: -1.327 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 57.414 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 39.725 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 58.418 ms

Loss rate: 0.82%

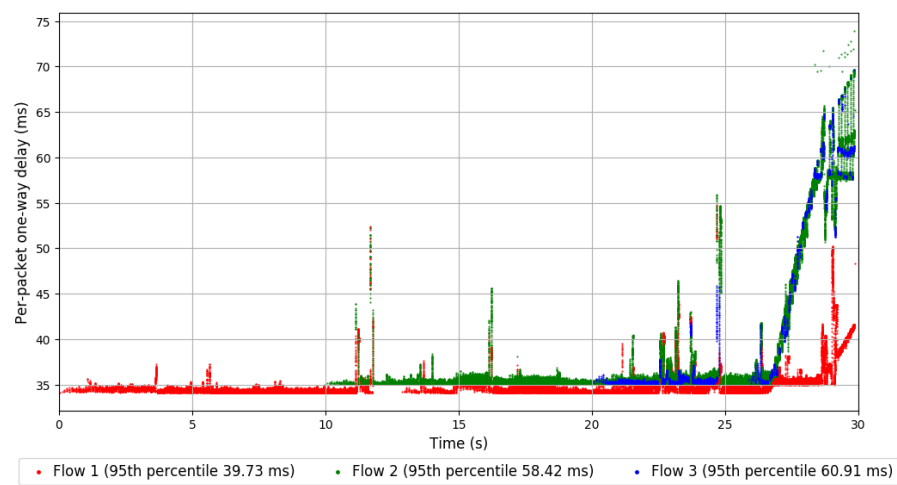
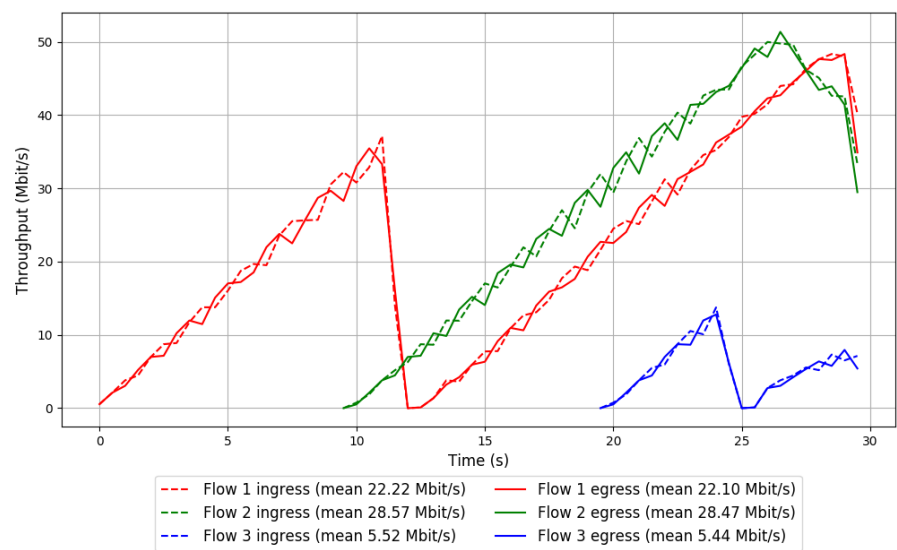
-- Flow 3:

Average throughput: 5.44 Mbit/s

95th percentile per-packet one-way delay: 60.905 ms

Loss rate: 2.41%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 02:12:41 +0000

End at: Mon, 10 Jul 2017 02:13:11 +0000

Local clock offset: 0.951 ms

Remote clock offset: -3.782 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 36.138 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 27.63 Mbit/s

95th percentile per-packet one-way delay: 36.091 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 35.744 ms

Loss rate: 1.11%

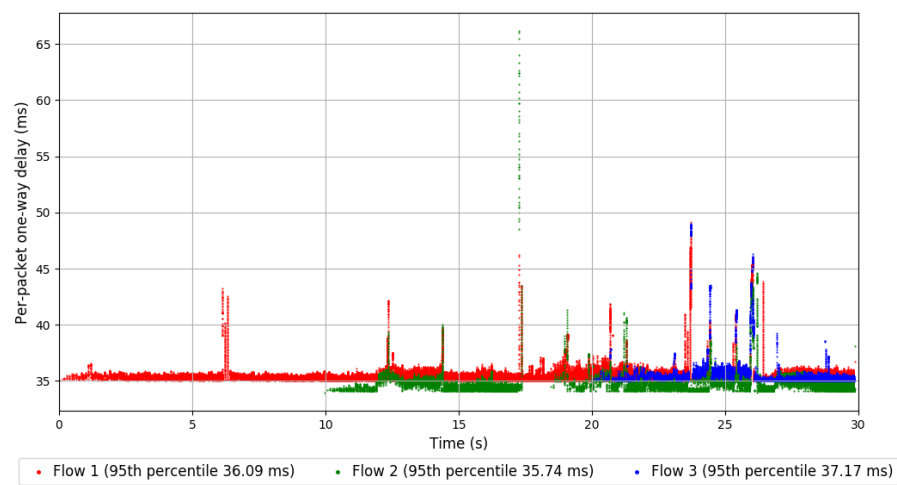
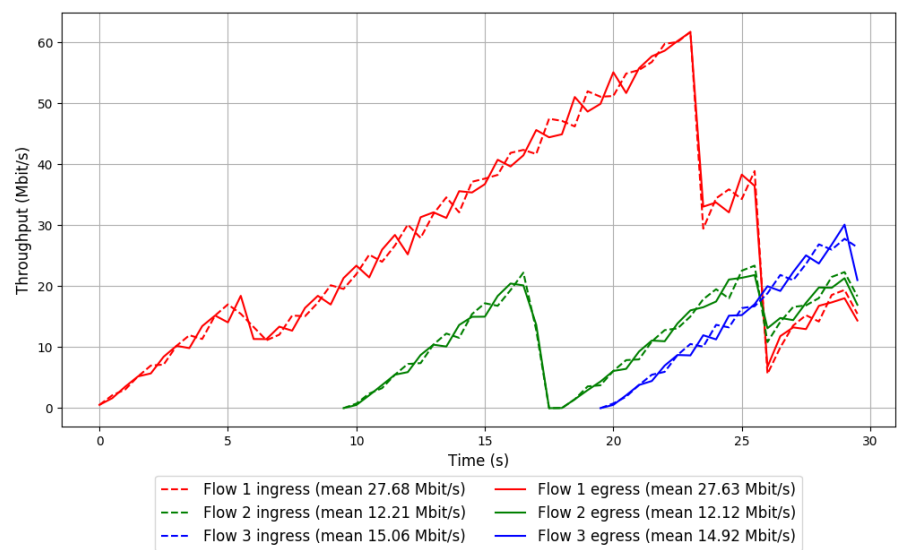
-- Flow 3:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 37.169 ms

Loss rate: 1.79%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 02:33:18 +0000

End at: Mon, 10 Jul 2017 02:33:48 +0000

Local clock offset: 0.919 ms

Remote clock offset: -3.834 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.08 Mbit/s

95th percentile per-packet one-way delay: 34.953 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 22.20 Mbit/s

95th percentile per-packet one-way delay: 34.975 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 35.123 ms

Loss rate: 1.07%

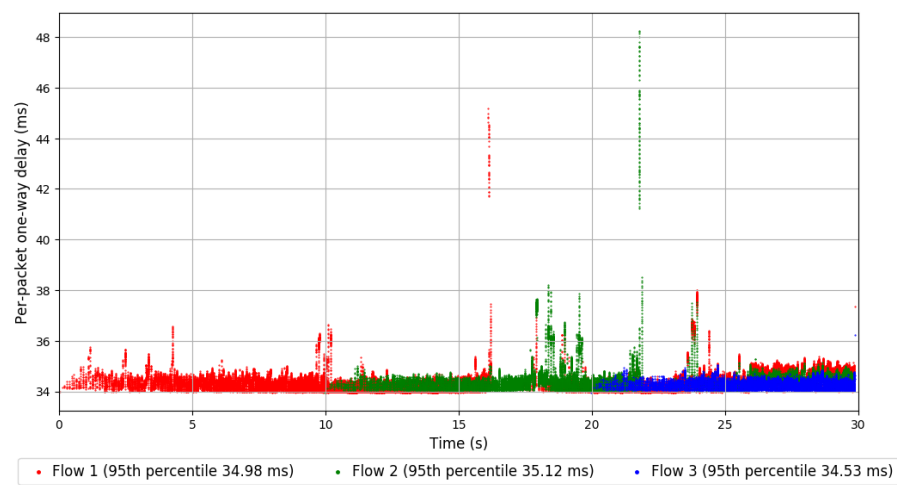
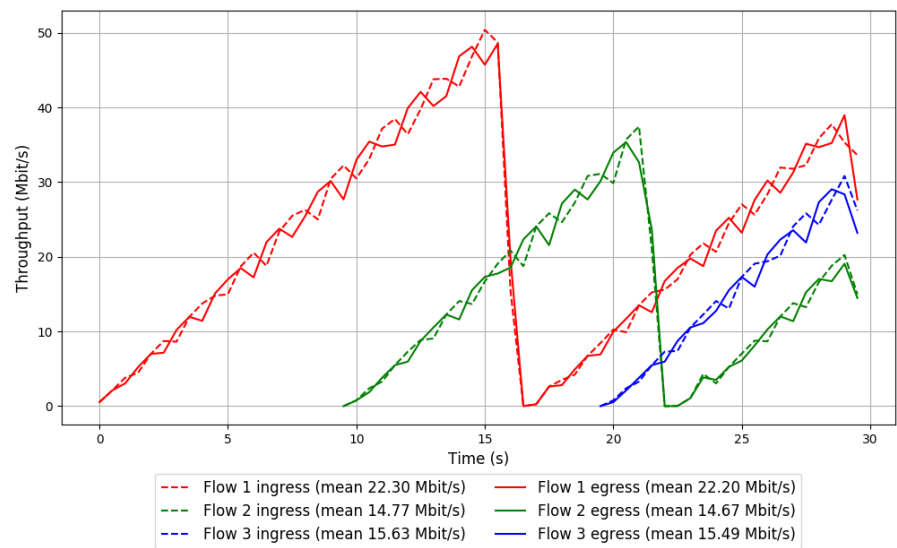
-- Flow 3:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 34.535 ms

Loss rate: 1.76%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Sun, 09 Jul 2017 23:38:53 +0000

End at: Sun, 09 Jul 2017 23:39:23 +0000

Local clock offset: 0.59 ms

Remote clock offset: -3.58 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.77 Mbit/s

95th percentile per-packet one-way delay: 67.930 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 58.229 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 36.64 Mbit/s

95th percentile per-packet one-way delay: 70.595 ms

Loss rate: 0.60%

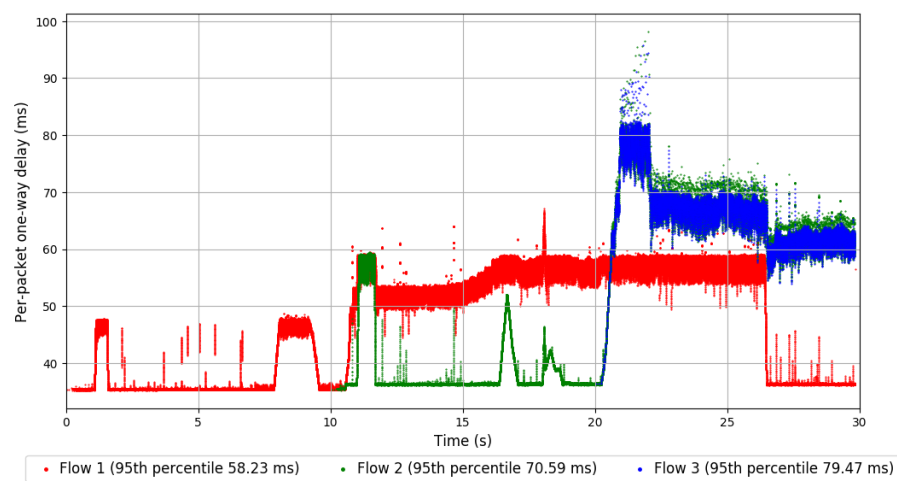
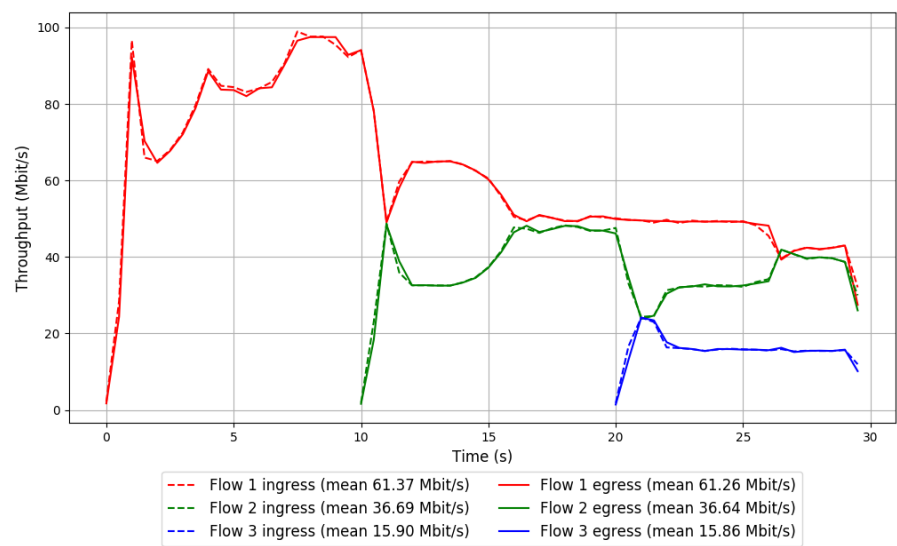
-- Flow 3:

Average throughput: 15.86 Mbit/s

95th percentile per-packet one-way delay: 79.471 ms

Loss rate: 1.15%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Sun, 09 Jul 2017 23:59:31 +0000

End at: Mon, 10 Jul 2017 00:00:01 +0000

Local clock offset: 0.613 ms

Remote clock offset: -1.458 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.00 Mbit/s

95th percentile per-packet one-way delay: 61.946 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 60.45 Mbit/s

95th percentile per-packet one-way delay: 57.032 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 40.12 Mbit/s

95th percentile per-packet one-way delay: 63.017 ms

Loss rate: 0.66%

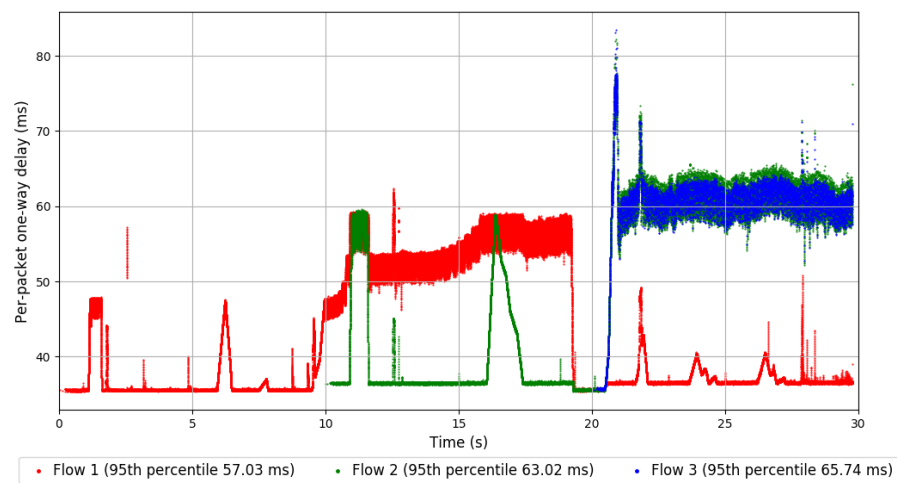
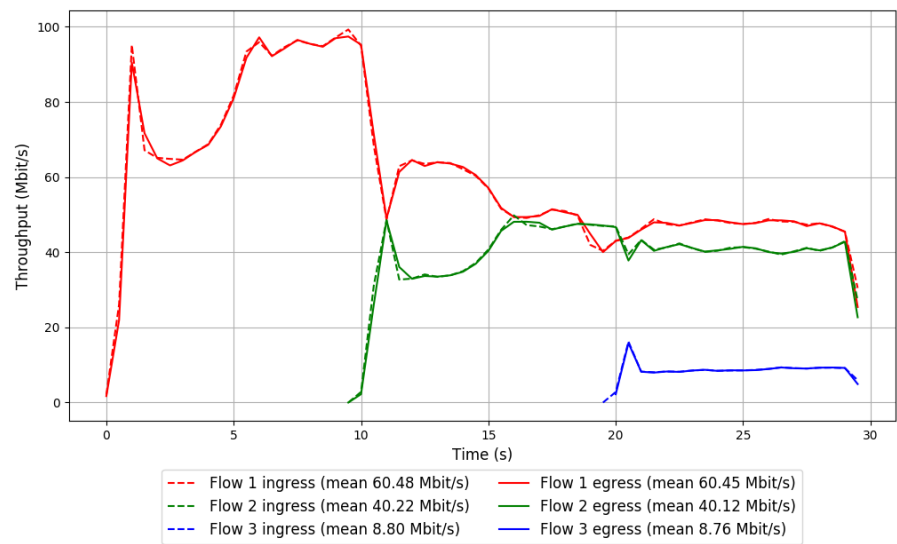
-- Flow 3:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 65.744 ms

Loss rate: 1.27%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Mon, 10 Jul 2017 00:20:25 +0000

End at: Mon, 10 Jul 2017 00:20:55 +0000

Local clock offset: 0.763 ms

Remote clock offset: -3.472 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.14 Mbit/s

95th percentile per-packet one-way delay: 69.720 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 56.52 Mbit/s

95th percentile per-packet one-way delay: 68.325 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 37.34 Mbit/s

95th percentile per-packet one-way delay: 70.043 ms

Loss rate: 0.60%

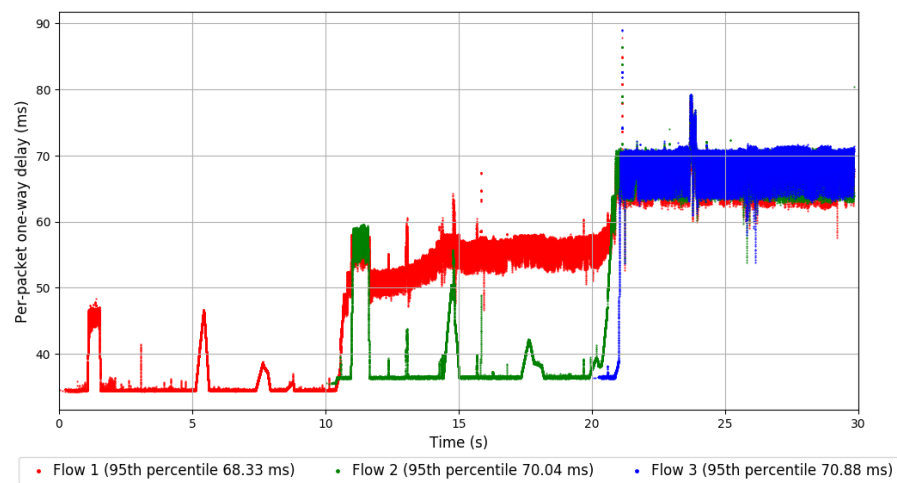
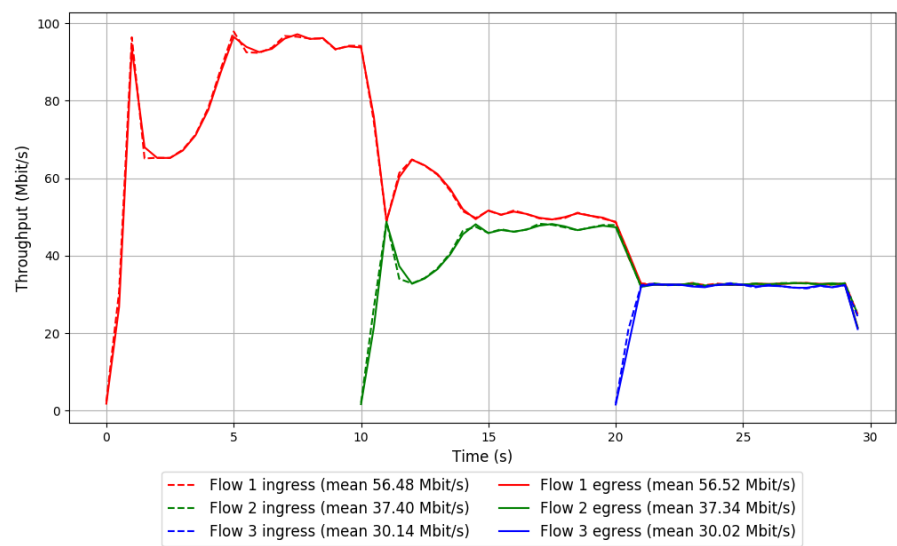
-- Flow 3:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 70.876 ms

Loss rate: 1.39%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Mon, 10 Jul 2017 00:41:26 +0000

End at: Mon, 10 Jul 2017 00:41:56 +0000

Local clock offset: 0.62 ms

Remote clock offset: -0.921 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 69.695 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 57.88 Mbit/s

95th percentile per-packet one-way delay: 68.961 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 36.28 Mbit/s

95th percentile per-packet one-way delay: 70.162 ms

Loss rate: 0.64%

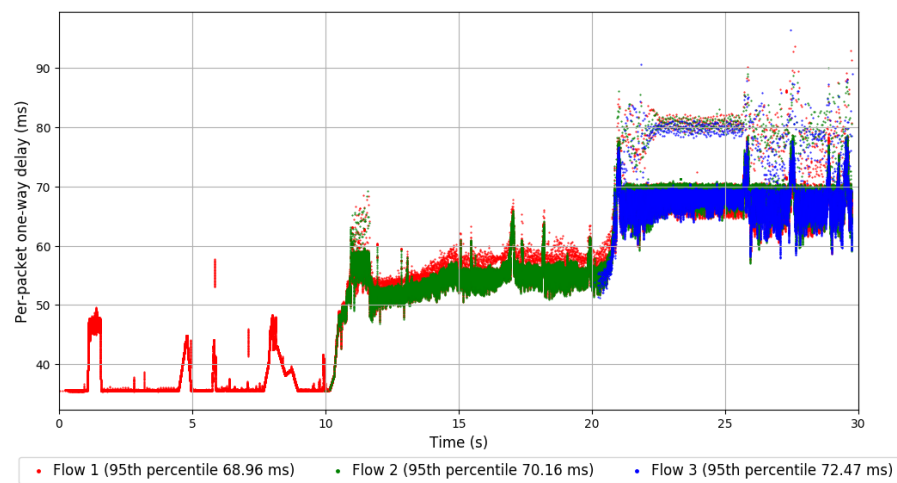
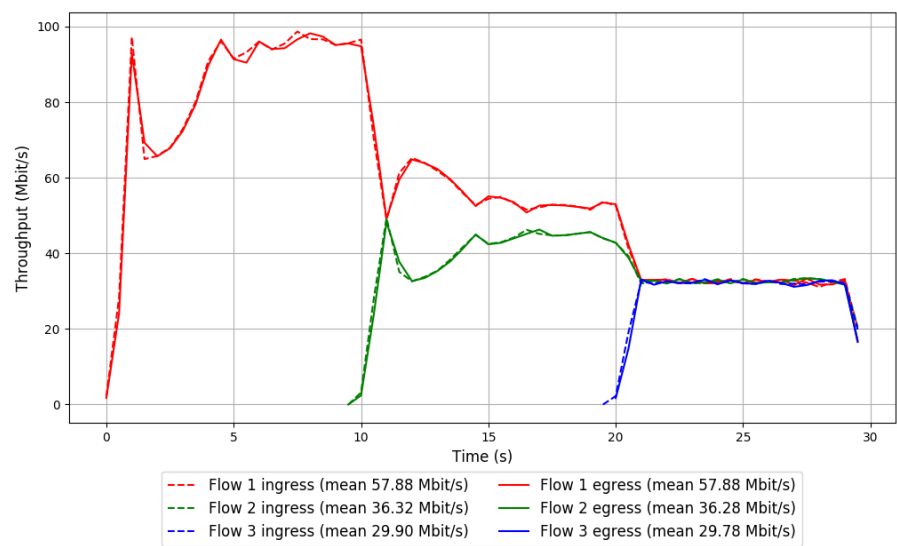
-- Flow 3:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 72.468 ms

Loss rate: 1.46%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Mon, 10 Jul 2017 01:02:13 +0000

End at: Mon, 10 Jul 2017 01:02:43 +0000

Local clock offset: 0.543 ms

Remote clock offset: -1.444 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.77 Mbit/s

95th percentile per-packet one-way delay: 55.790 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 55.396 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 57.214 ms

Loss rate: 0.88%

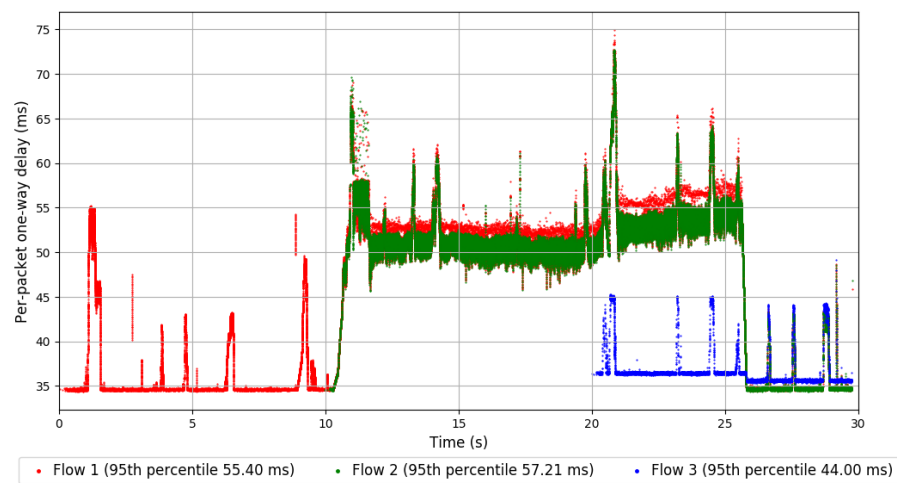
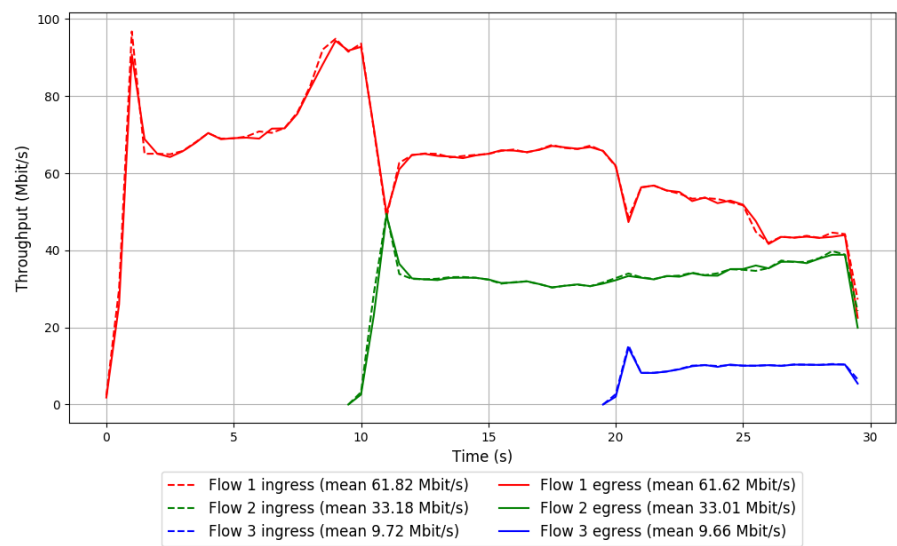
-- Flow 3:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 43.997 ms

Loss rate: 1.48%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Mon, 10 Jul 2017 01:23:02 +0000

End at: Mon, 10 Jul 2017 01:23:32 +0000

Local clock offset: 0.662 ms

Remote clock offset: -3.729 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:37:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.42 Mbit/s

95th percentile per-packet one-way delay: 58.009 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 57.896 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 43.50 Mbit/s

95th percentile per-packet one-way delay: 58.084 ms

Loss rate: 0.54%

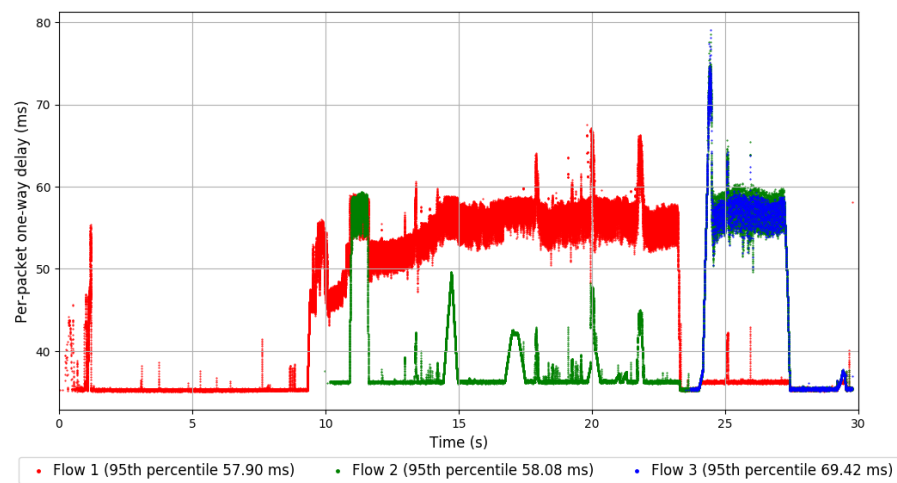
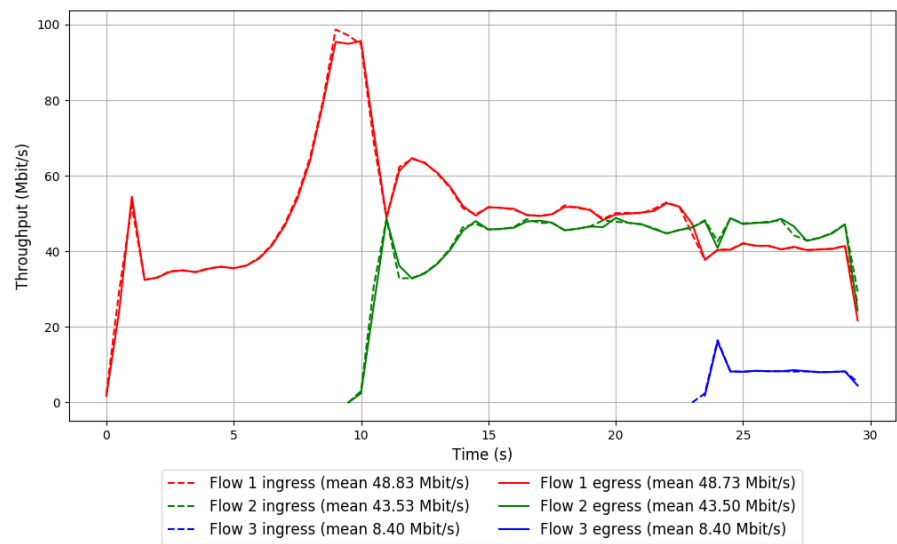
-- Flow 3:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 69.425 ms

Loss rate: 1.44%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Mon, 10 Jul 2017 01:43:44 +0000

End at: Mon, 10 Jul 2017 01:44:14 +0000

Local clock offset: 0.853 ms

Remote clock offset: -1.767 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 67.047 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 66.707 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 42.80 Mbit/s

95th percentile per-packet one-way delay: 43.316 ms

Loss rate: 0.72%

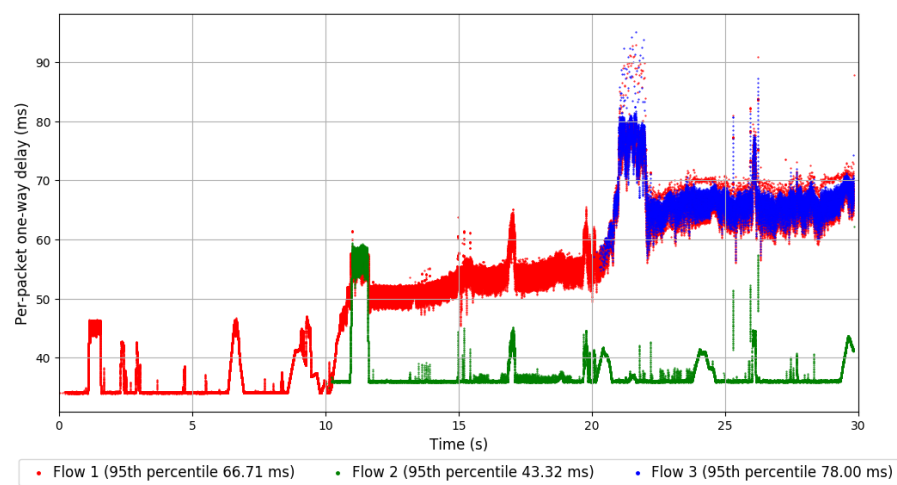
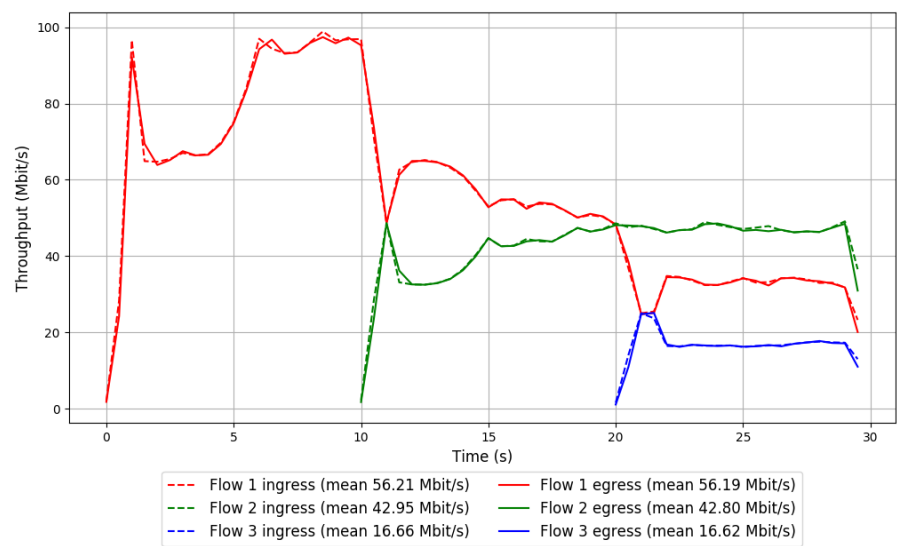
-- Flow 3:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 77.998 ms

Loss rate: 1.39%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Mon, 10 Jul 2017 02:04:28 +0000

End at: Mon, 10 Jul 2017 02:04:58 +0000

Local clock offset: 0.884 ms

Remote clock offset: -1.262 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 76.227 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 75.227 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 78.150 ms

Loss rate: 0.67%

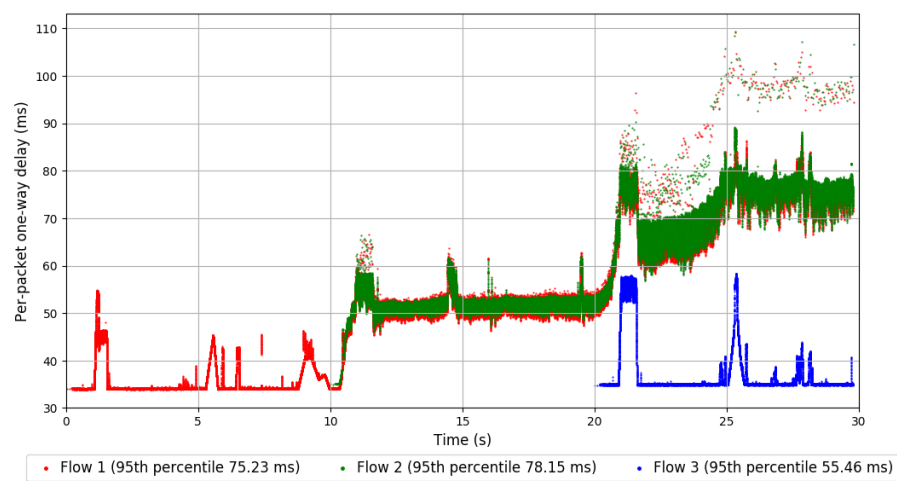
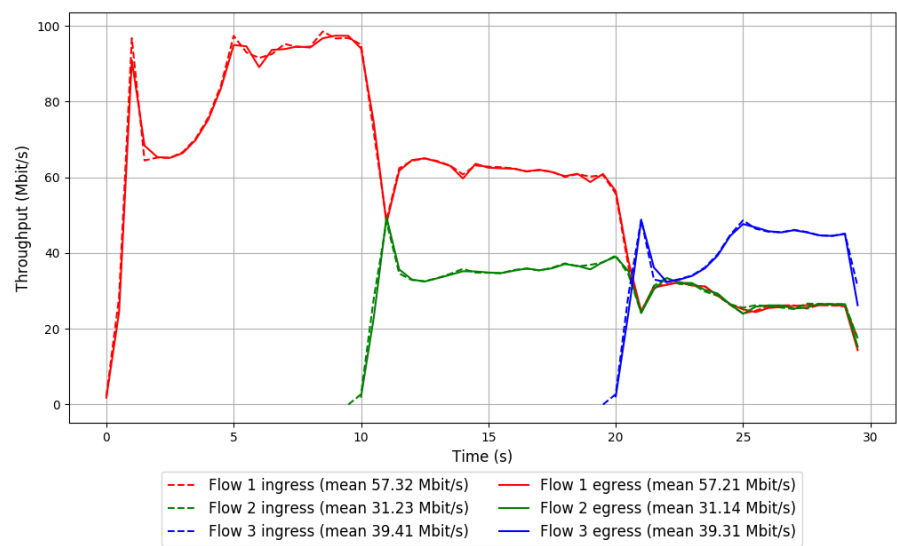
-- Flow 3:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 55.458 ms

Loss rate: 1.14%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Mon, 10 Jul 2017 02:25:02 +0000

End at: Mon, 10 Jul 2017 02:25:32 +0000

Local clock offset: 0.945 ms

Remote clock offset: -1.291 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 76.315 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 41.86 Mbit/s

95th percentile per-packet one-way delay: 76.001 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 30.60 Mbit/s

95th percentile per-packet one-way delay: 77.626 ms

Loss rate: 0.58%

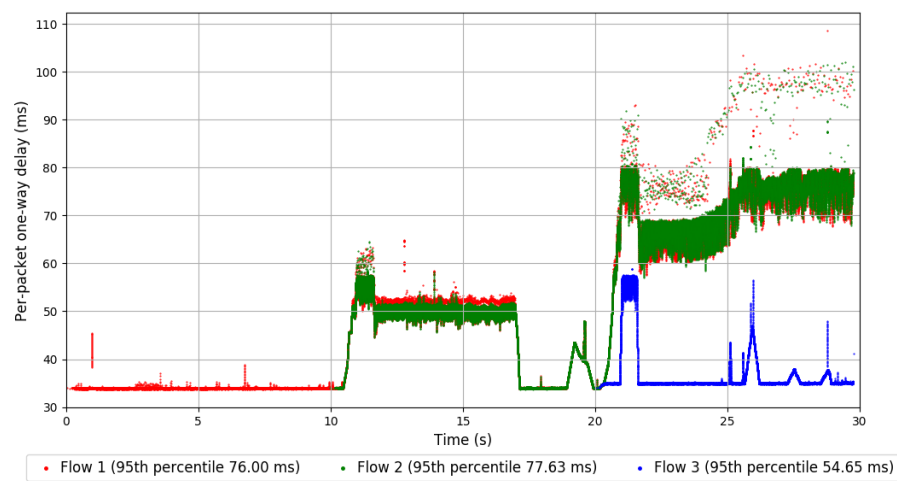
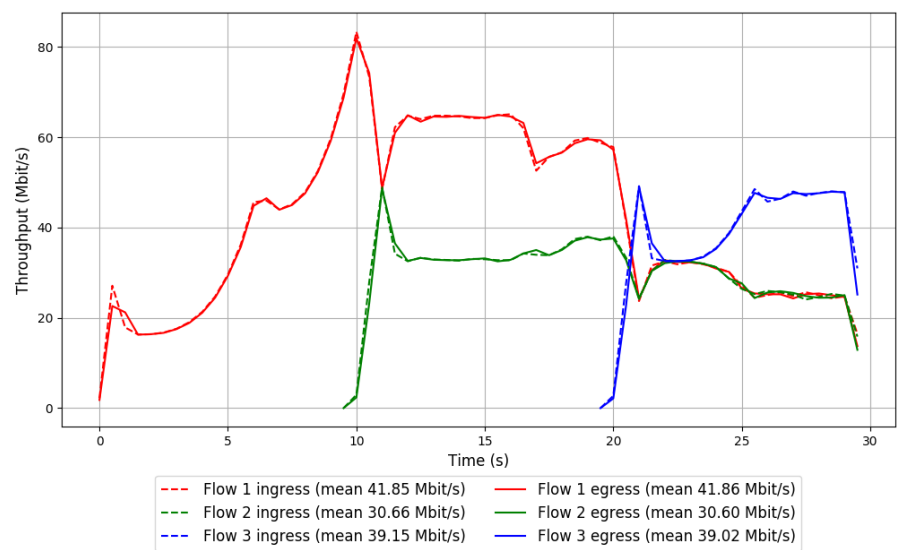
-- Flow 3:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 54.650 ms

Loss rate: 1.21%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Mon, 10 Jul 2017 02:45:41 +0000

End at: Mon, 10 Jul 2017 02:46:11 +0000

Local clock offset: 0.854 ms

Remote clock offset: -3.885 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 76.957 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 57.24 Mbit/s

95th percentile per-packet one-way delay: 76.321 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 78.435 ms

Loss rate: 0.55%

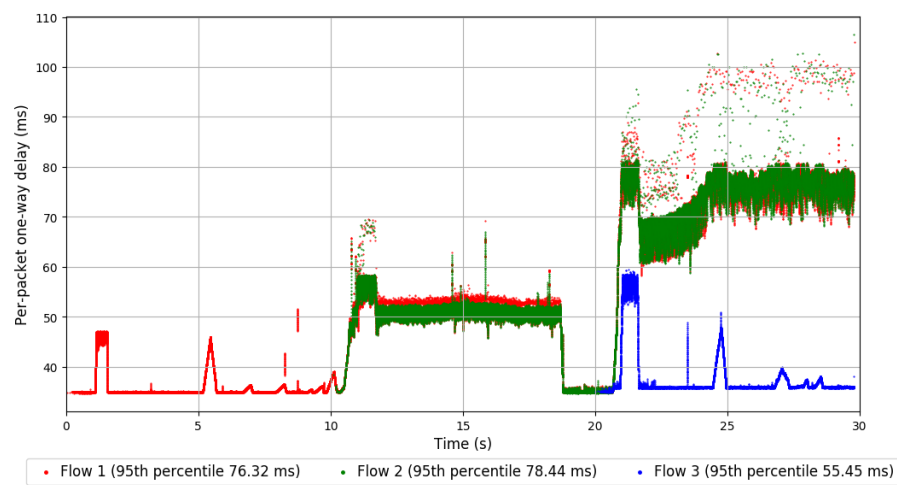
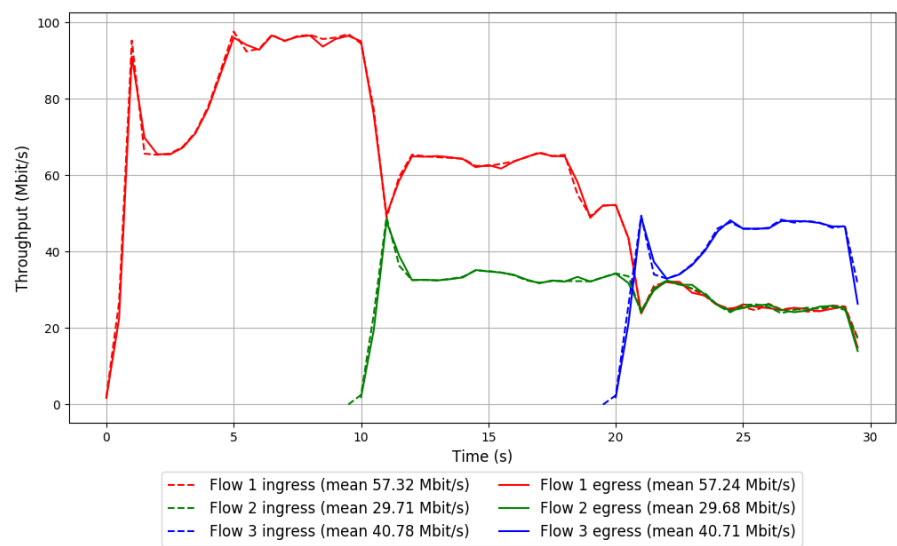
-- Flow 3:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 55.451 ms

Loss rate: 1.06%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Sun, 09 Jul 2017 23:40:15 +0000

End at: Sun, 09 Jul 2017 23:40:45 +0000

Local clock offset: 0.603 ms

Remote clock offset: -1.509 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.89 Mbit/s

95th percentile per-packet one-way delay: 46.573 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 46.054 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.23 Mbit/s

95th percentile per-packet one-way delay: 46.781 ms

Loss rate: 0.07%

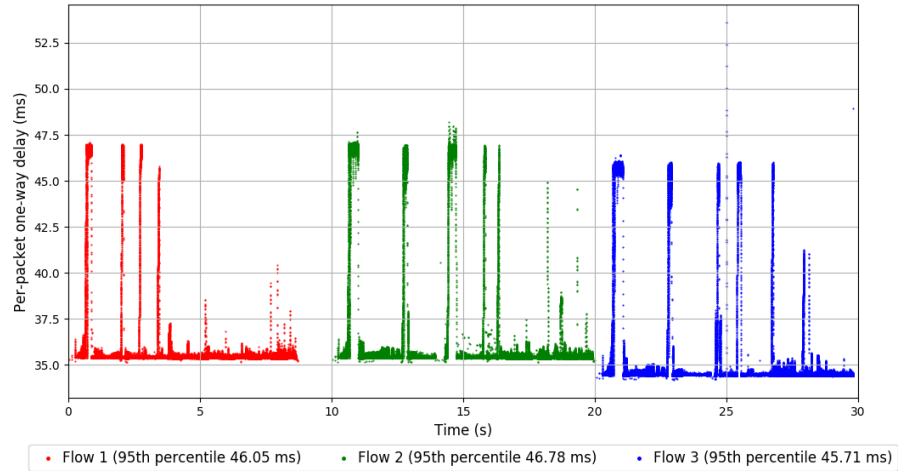
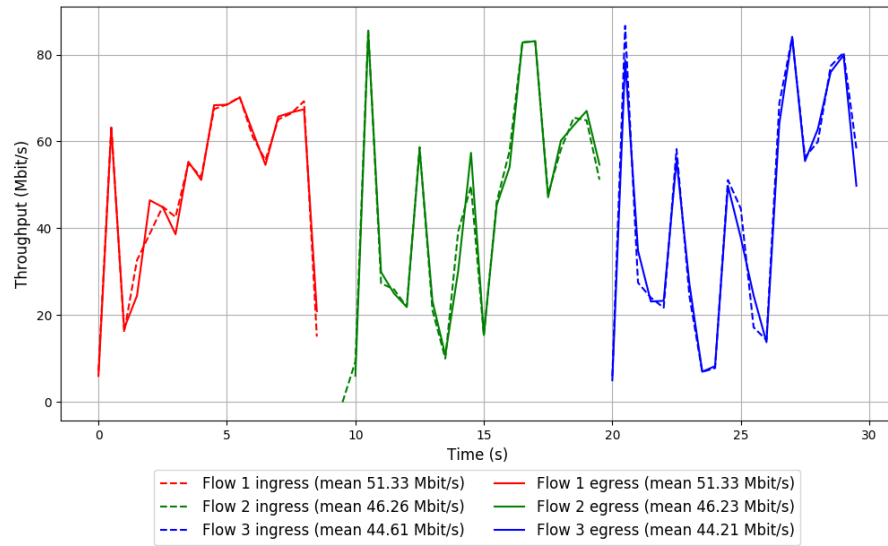
-- Flow 3:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 45.708 ms

Loss rate: 1.64%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 00:00:54 +0000

End at: Mon, 10 Jul 2017 00:01:24 +0000

Local clock offset: 0.725 ms

Remote clock offset: -0.97 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 46.938 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 44.56 Mbit/s

95th percentile per-packet one-way delay: 46.955 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 44.18 Mbit/s

95th percentile per-packet one-way delay: 46.904 ms

Loss rate: 0.00%

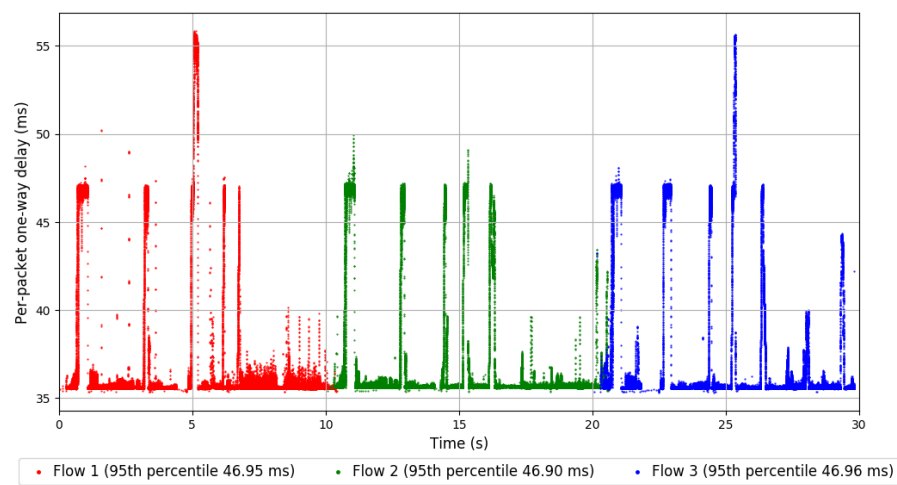
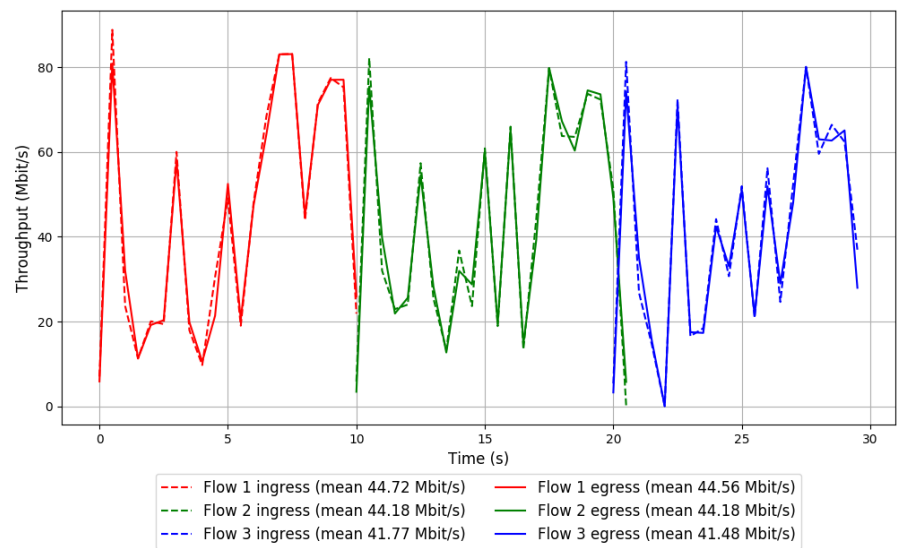
-- Flow 3:

Average throughput: 41.48 Mbit/s

95th percentile per-packet one-way delay: 46.959 ms

Loss rate: 1.52%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 00:21:51 +0000

End at: Mon, 10 Jul 2017 00:22:21 +0000

Local clock offset: 0.673 ms

Remote clock offset: -1.48 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.36 Mbit/s

95th percentile per-packet one-way delay: 46.951 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 45.83 Mbit/s

95th percentile per-packet one-way delay: 45.991 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 47.086 ms

Loss rate: 0.20%

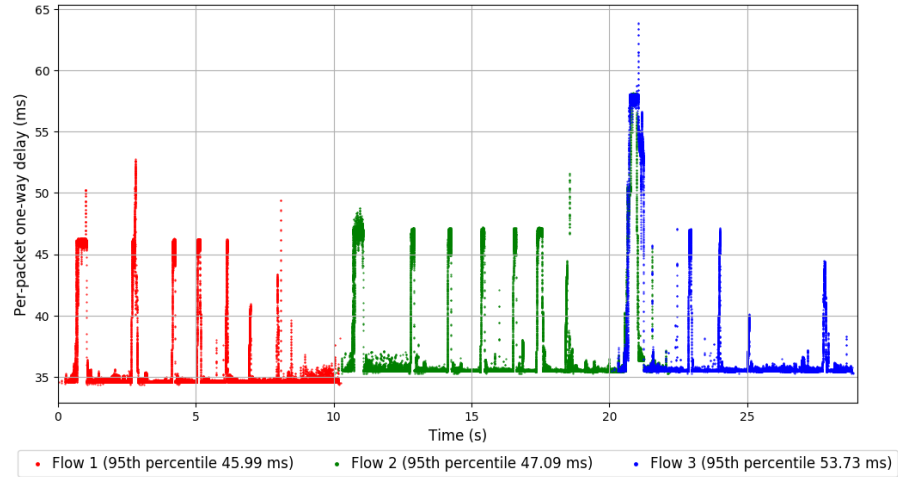
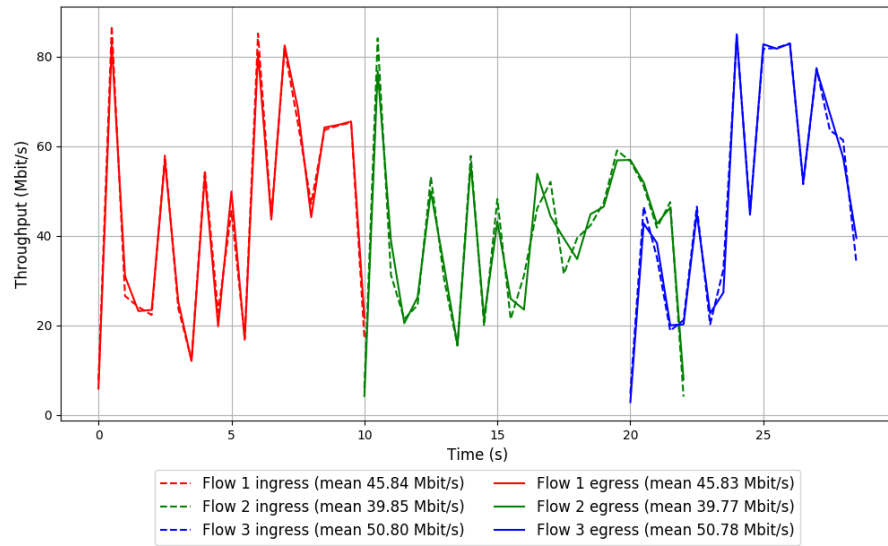
-- Flow 3:

Average throughput: 50.78 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.03%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 00:42:49 +0000

End at: Mon, 10 Jul 2017 00:43:19 +0000

Local clock offset: 0.65 ms

Remote clock offset: -3.457 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.85 Mbit/s

95th percentile per-packet one-way delay: 45.951 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 50.57 Mbit/s

95th percentile per-packet one-way delay: 45.287 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 46.294 ms

Loss rate: 0.26%

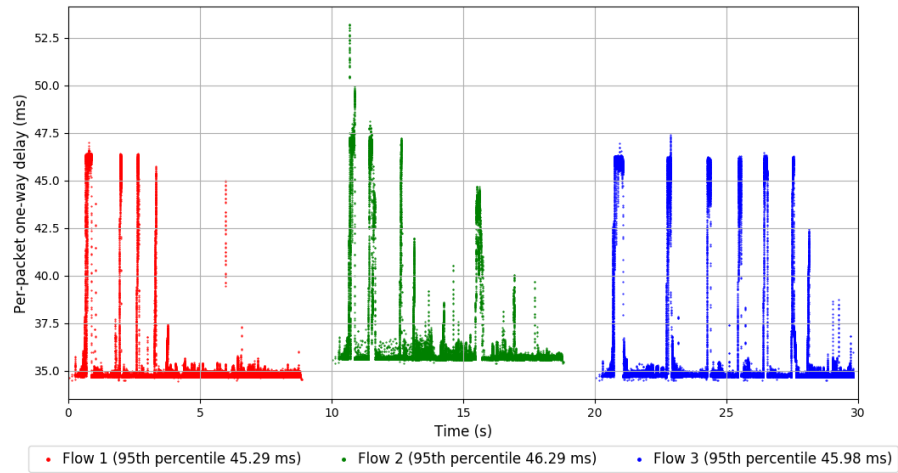
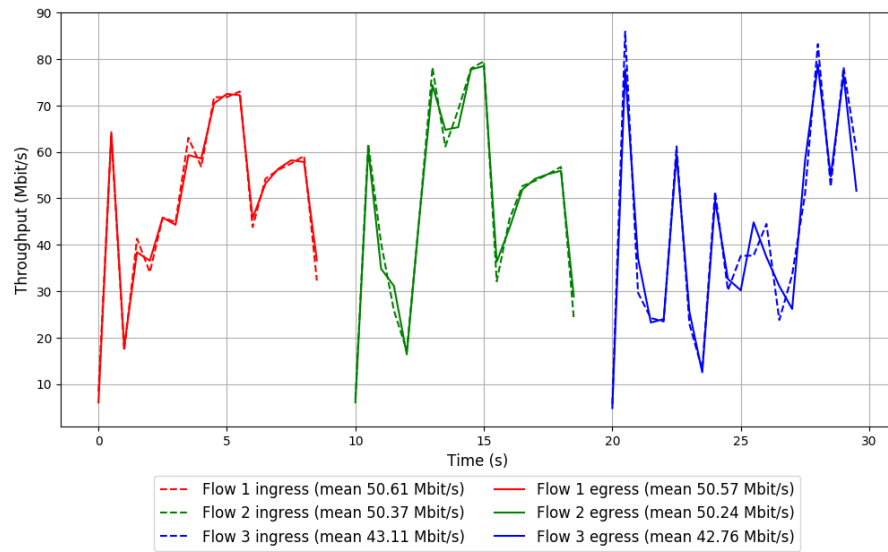
-- Flow 3:

Average throughput: 42.76 Mbit/s

95th percentile per-packet one-way delay: 45.984 ms

Loss rate: 1.65%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 01:03:36 +0000

End at: Mon, 10 Jul 2017 01:04:06 +0000

Local clock offset: 0.646 ms

Remote clock offset: -1.464 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.82 Mbit/s

95th percentile per-packet one-way delay: 46.476 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 45.576 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 51.07 Mbit/s

95th percentile per-packet one-way delay: 41.759 ms

Loss rate: 0.39%

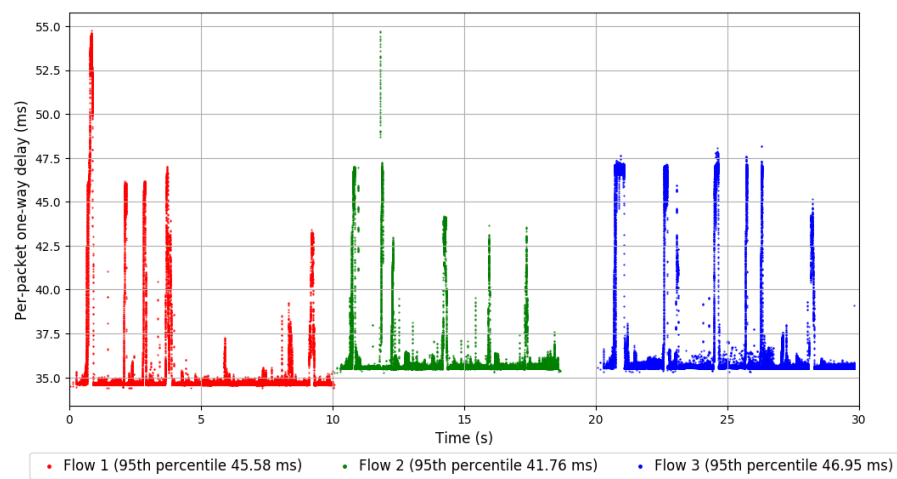
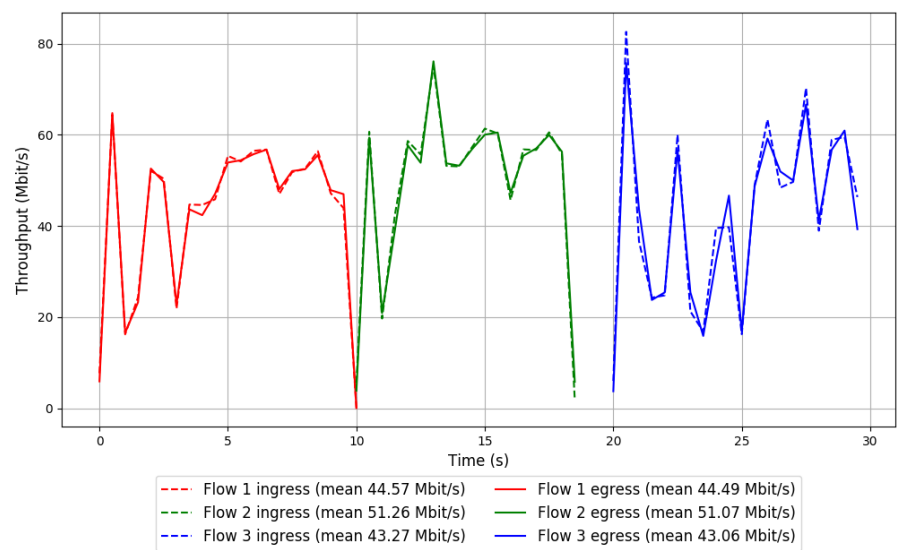
-- Flow 3:

Average throughput: 43.06 Mbit/s

95th percentile per-packet one-way delay: 46.945 ms

Loss rate: 1.32%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 01:24:24 +0000

End at: Mon, 10 Jul 2017 01:24:54 +0000

Local clock offset: 0.664 ms

Remote clock offset: -1.663 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.87 Mbit/s

95th percentile per-packet one-way delay: 45.852 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 45.616 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 46.699 ms

Loss rate: 0.08%

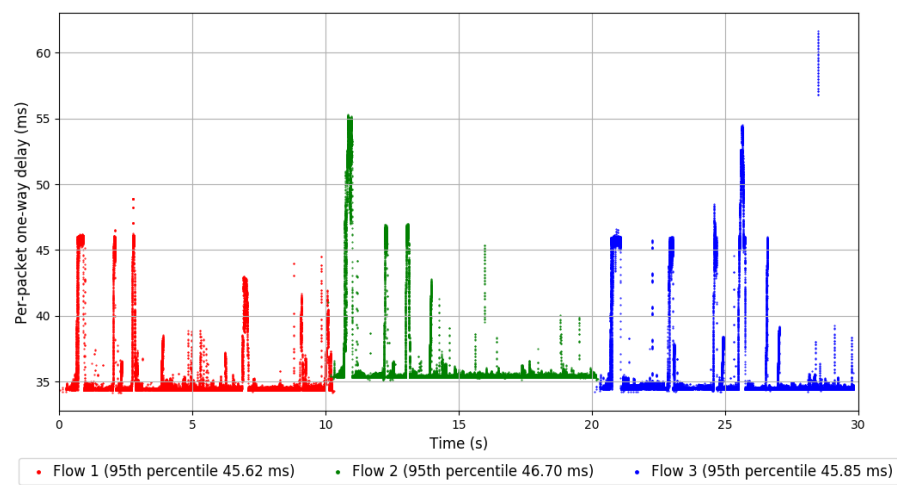
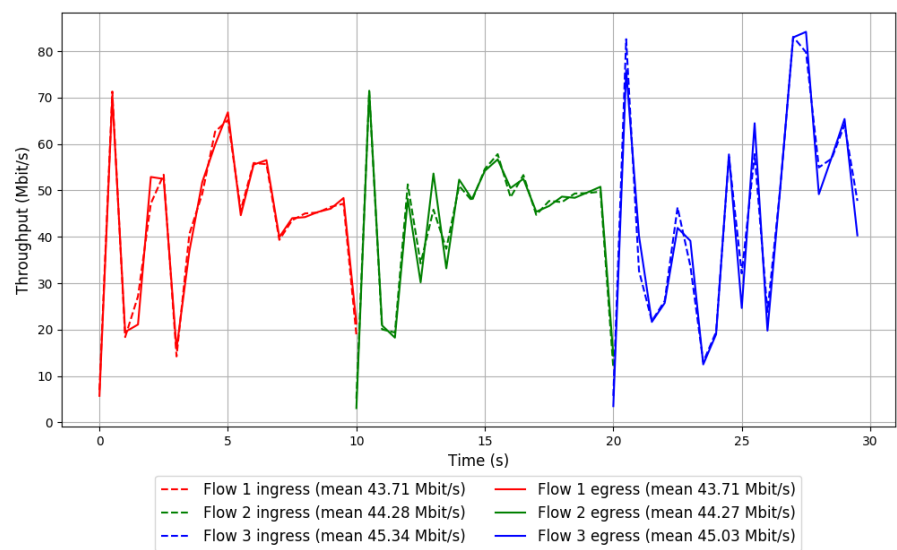
-- Flow 3:

Average throughput: 45.03 Mbit/s

95th percentile per-packet one-way delay: 45.854 ms

Loss rate: 1.53%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 01:45:07 +0000

End at: Mon, 10 Jul 2017 01:45:37 +0000

Local clock offset: 0.776 ms

Remote clock offset: -3.79 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.47 Mbit/s

95th percentile per-packet one-way delay: 46.721 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 42.11 Mbit/s

95th percentile per-packet one-way delay: 53.344 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 57.169 ms

Loss rate: 0.00%

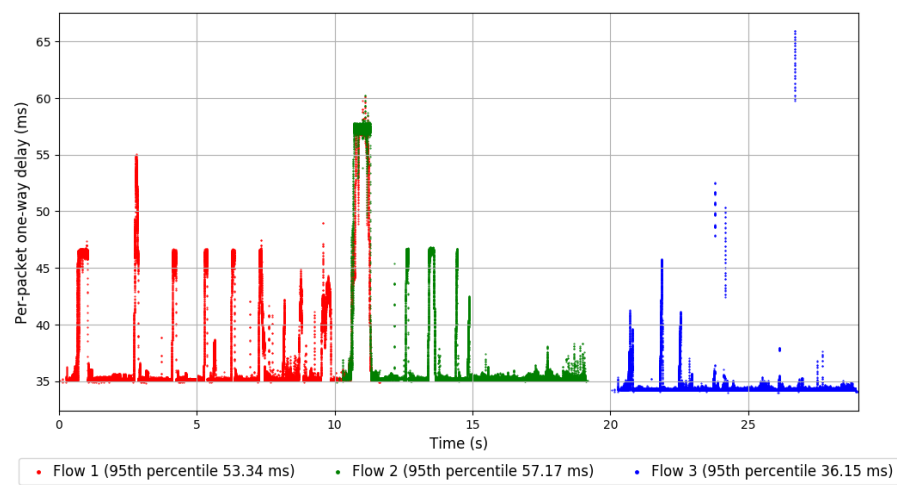
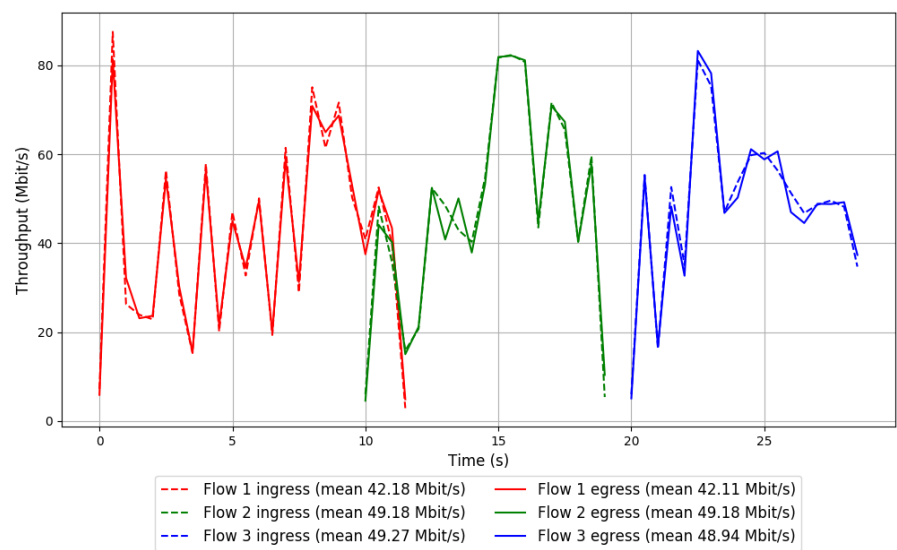
-- Flow 3:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 36.153 ms

Loss rate: 0.66%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 02:05:50 +0000

End at: Mon, 10 Jul 2017 02:06:20 +0000

Local clock offset: 0.908 ms

Remote clock offset: -1.299 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 45.603 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 45.57 Mbit/s

95th percentile per-packet one-way delay: 45.429 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 45.21 Mbit/s

95th percentile per-packet one-way delay: 46.306 ms

Loss rate: 0.06%

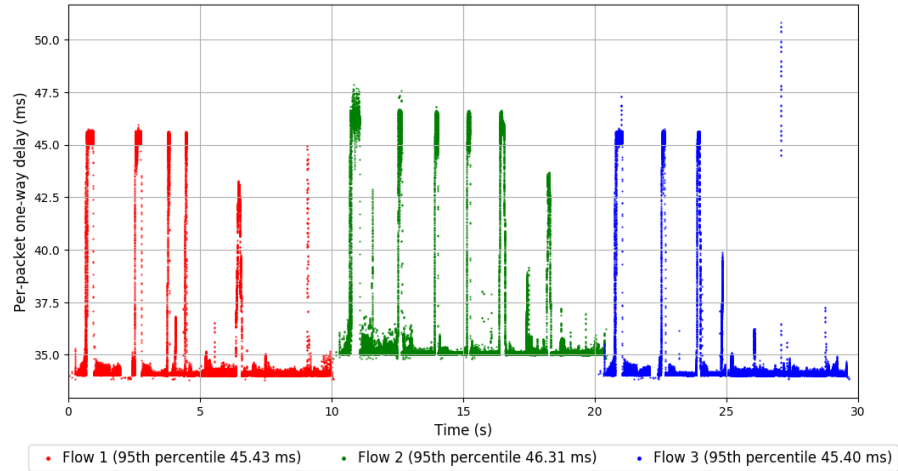
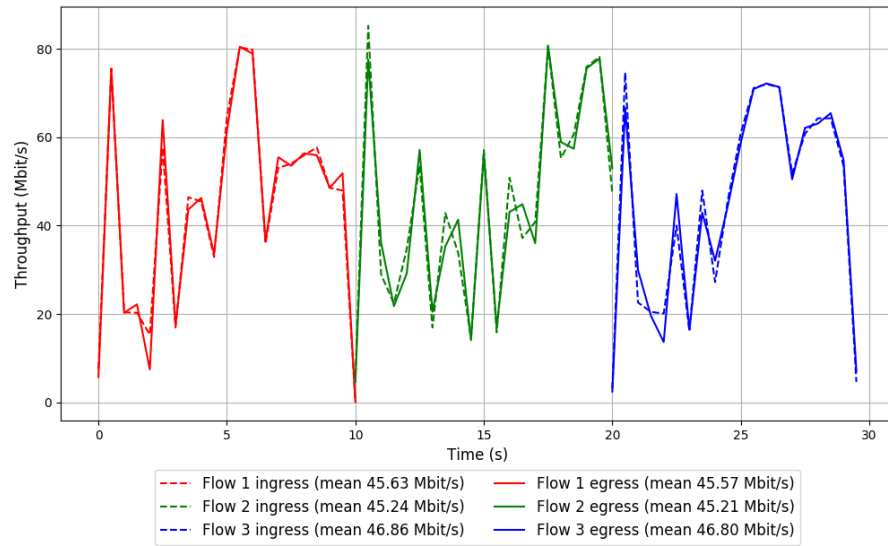
-- Flow 3:

Average throughput: 46.80 Mbit/s

95th percentile per-packet one-way delay: 45.398 ms

Loss rate: 0.13%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 02:26:24 +0000

End at: Mon, 10 Jul 2017 02:26:54 +0000

Local clock offset: 0.829 ms

Remote clock offset: -1.773 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.50 Mbit/s

95th percentile per-packet one-way delay: 46.180 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 46.209 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 34.156 ms

Loss rate: 0.13%

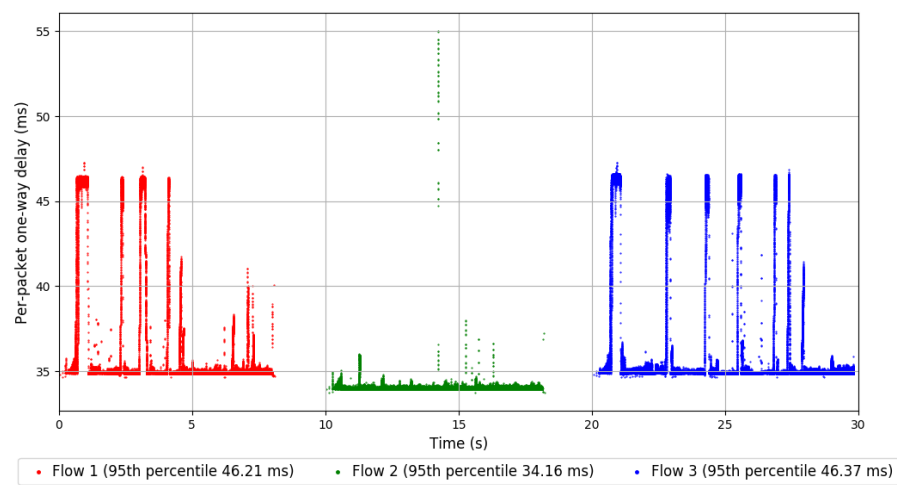
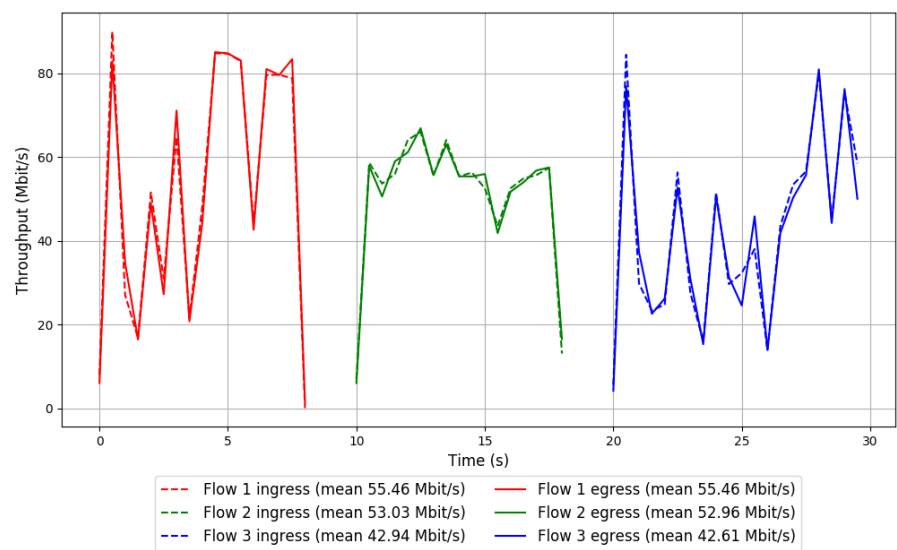
-- Flow 3:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 46.374 ms

Loss rate: 1.64%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 02:47:03 +0000

End at: Mon, 10 Jul 2017 02:47:33 +0000

Local clock offset: 0.842 ms

Remote clock offset: -3.913 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:38:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.96 Mbit/s

95th percentile per-packet one-way delay: 45.815 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 57.06 Mbit/s

95th percentile per-packet one-way delay: 35.052 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 57.56 Mbit/s

95th percentile per-packet one-way delay: 35.868 ms

Loss rate: 0.02%

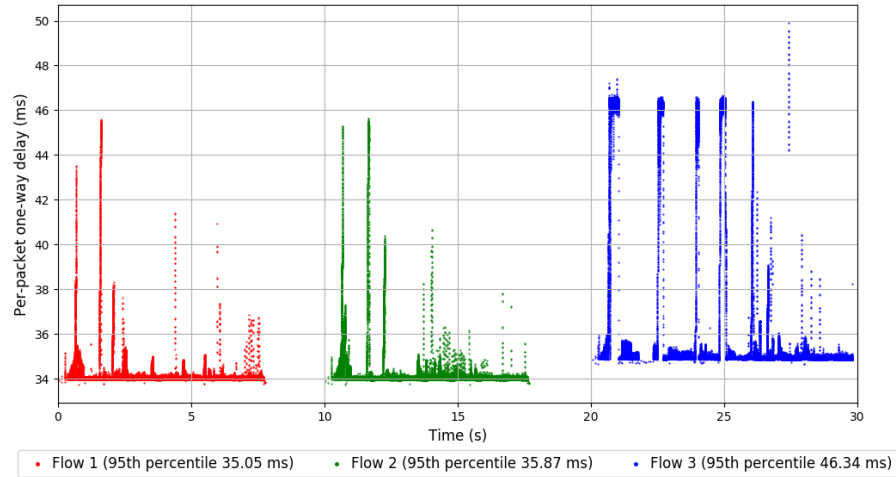
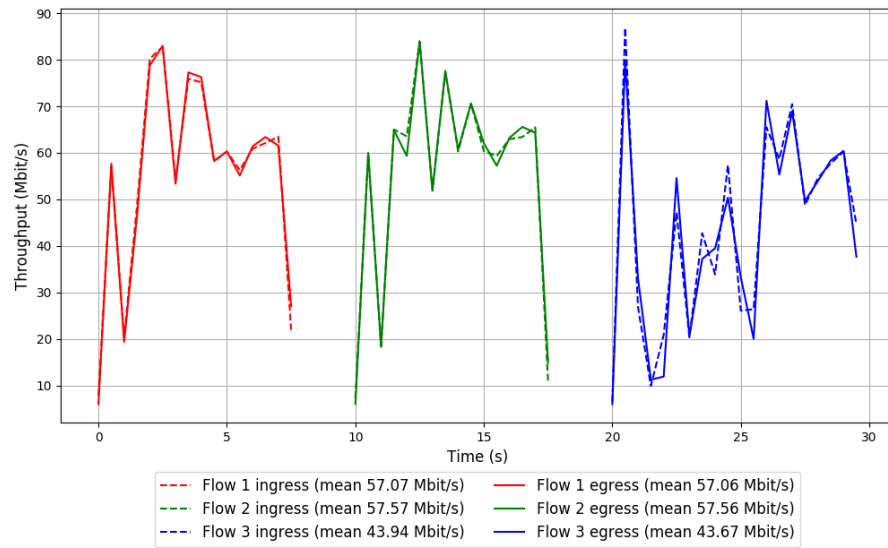
-- Flow 3:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 46.340 ms

Loss rate: 1.46%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Sun, 09 Jul 2017 23:41:35 +0000

End at: Sun, 09 Jul 2017 23:42:06 +0000

Local clock offset: 0.701 ms

Remote clock offset: -1.043 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.73 Mbit/s

95th percentile per-packet one-way delay: 37.585 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 27.15 Mbit/s

95th percentile per-packet one-way delay: 36.201 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 37.928 ms

Loss rate: 0.45%

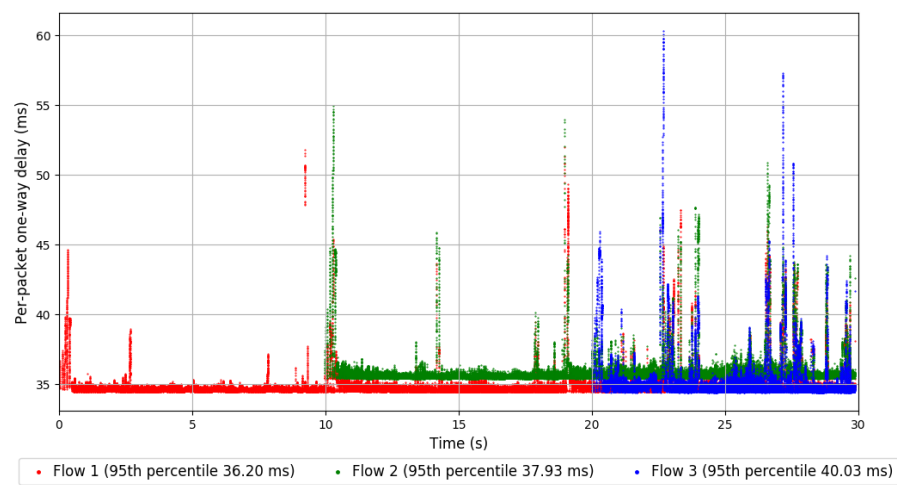
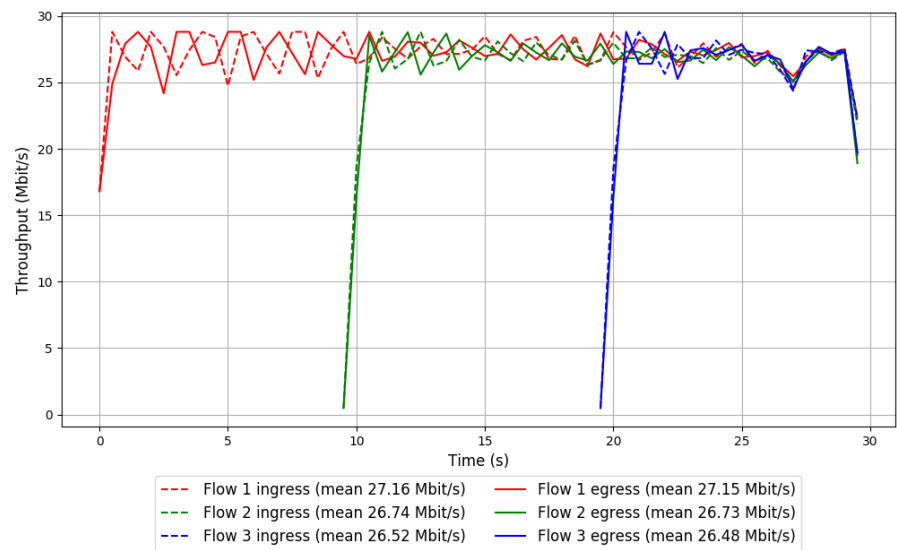
-- Flow 3:

Average throughput: 26.48 Mbit/s

95th percentile per-packet one-way delay: 40.030 ms

Loss rate: 0.96%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Mon, 10 Jul 2017 00:02:15 +0000

End at: Mon, 10 Jul 2017 00:02:45 +0000

Local clock offset: 0.629 ms

Remote clock offset: -1.343 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.90 Mbit/s

95th percentile per-packet one-way delay: 36.959 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 27.23 Mbit/s

95th percentile per-packet one-way delay: 36.142 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 37.193 ms

Loss rate: 0.53%

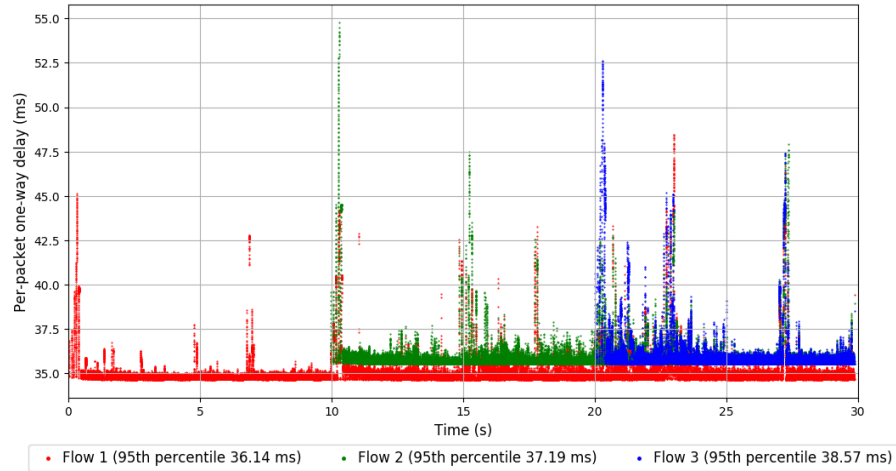
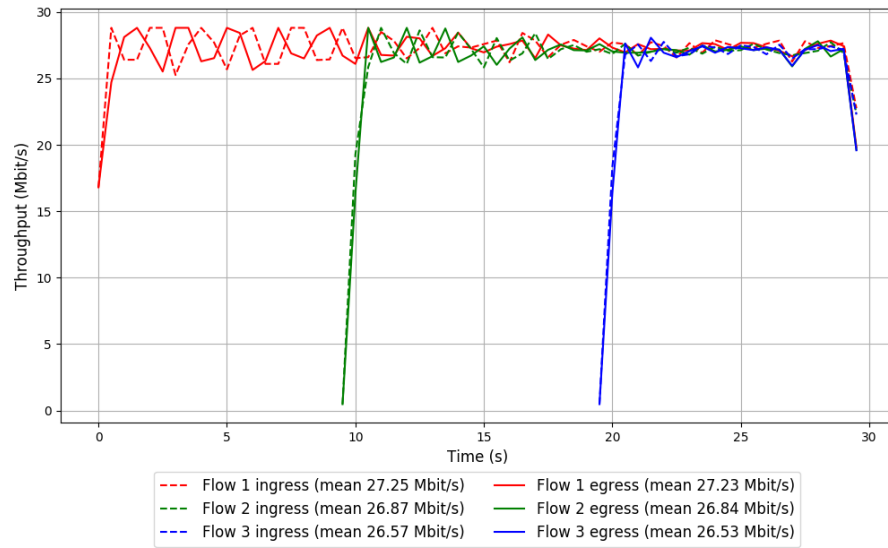
-- Flow 3:

Average throughput: 26.53 Mbit/s

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

Loss rate: 1.00%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Mon, 10 Jul 2017 00:23:13 +0000

End at: Mon, 10 Jul 2017 00:23:43 +0000

Local clock offset: 0.747 ms

Remote clock offset: -1.494 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.31 Mbit/s

95th percentile per-packet one-way delay: 38.785 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 26.79 Mbit/s

95th percentile per-packet one-way delay: 37.241 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 39.175 ms

Loss rate: 0.57%

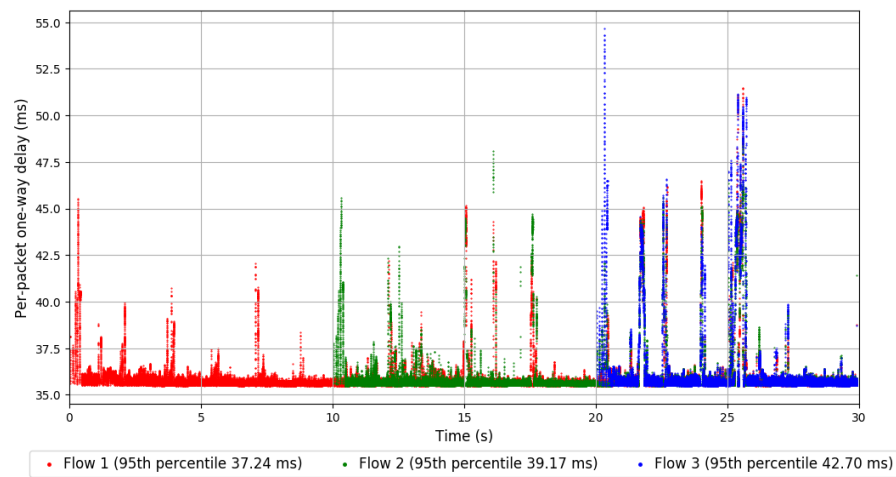
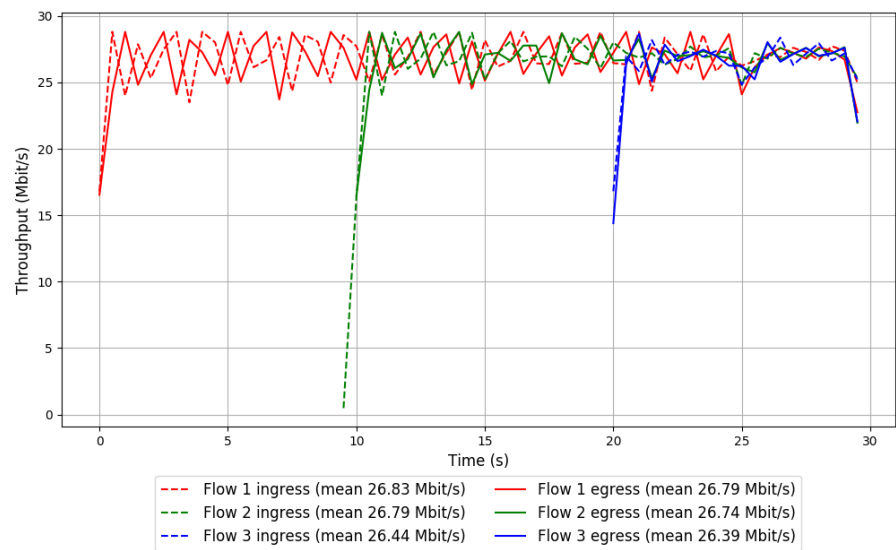
-- Flow 3:

Average throughput: 26.39 Mbit/s

95th percentile per-packet one-way delay: 42.698 ms

Loss rate: 1.02%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Mon, 10 Jul 2017 00:44:10 +0000

End at: Mon, 10 Jul 2017 00:44:40 +0000

Local clock offset: 0.664 ms

Remote clock offset: -1.369 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 37.925 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 26.87 Mbit/s

95th percentile per-packet one-way delay: 37.902 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 27.08 Mbit/s

95th percentile per-packet one-way delay: 36.779 ms

Loss rate: 0.47%

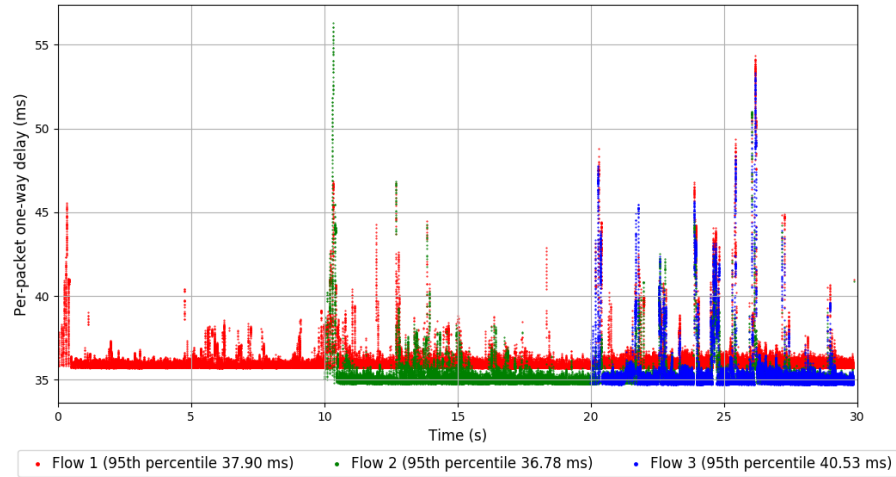
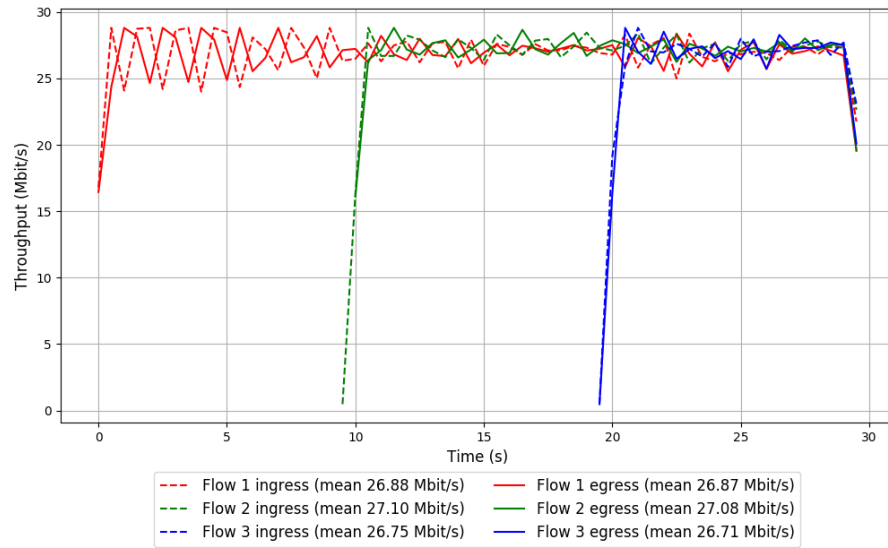
-- Flow 3:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 40.532 ms

Loss rate: 0.99%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Mon, 10 Jul 2017 01:04:58 +0000

End at: Mon, 10 Jul 2017 01:05:28 +0000

Local clock offset: 0.626 ms

Remote clock offset: -1.014 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 40.213 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 26.75 Mbit/s

95th percentile per-packet one-way delay: 38.758 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 40.324 ms

Loss rate: 0.53%

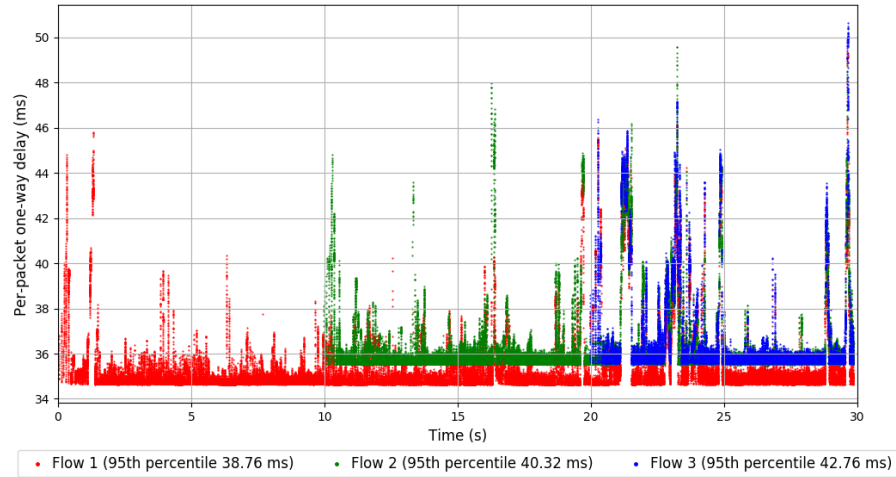
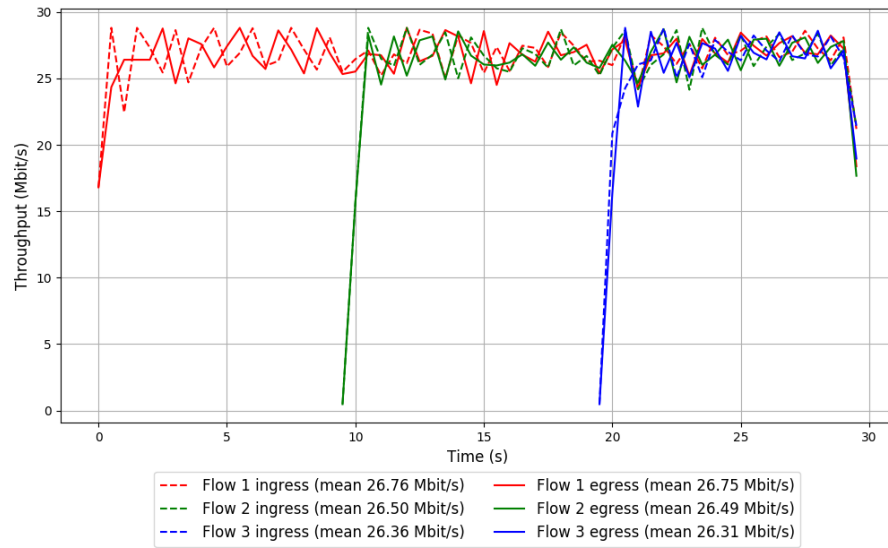
-- Flow 3:

Average throughput: 26.31 Mbit/s

95th percentile per-packet one-way delay: 42.755 ms

Loss rate: 1.15%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: Mon, 10 Jul 2017 01:25:45 +0000

End at: Mon, 10 Jul 2017 01:26:15 +0000

Local clock offset: 0.669 ms

Remote clock offset: -3.535 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 38.294 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 26.77 Mbit/s

95th percentile per-packet one-way delay: 37.765 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 37.535 ms

Loss rate: 0.48%

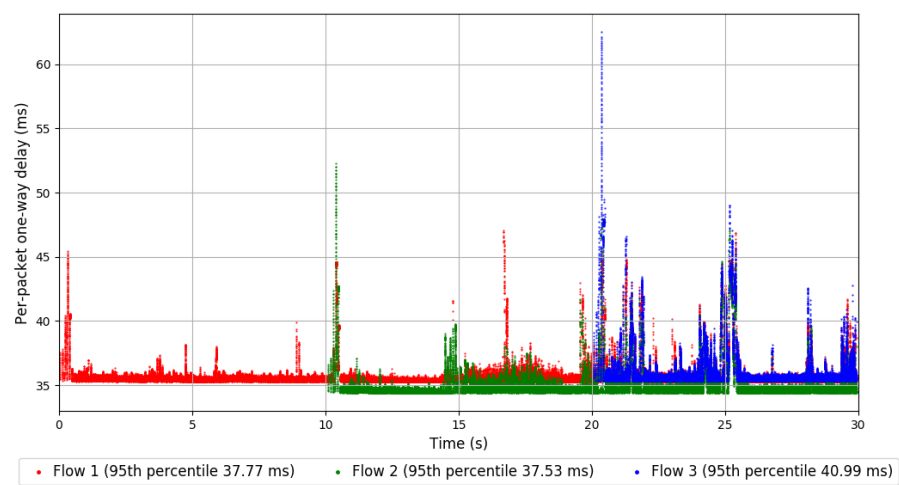
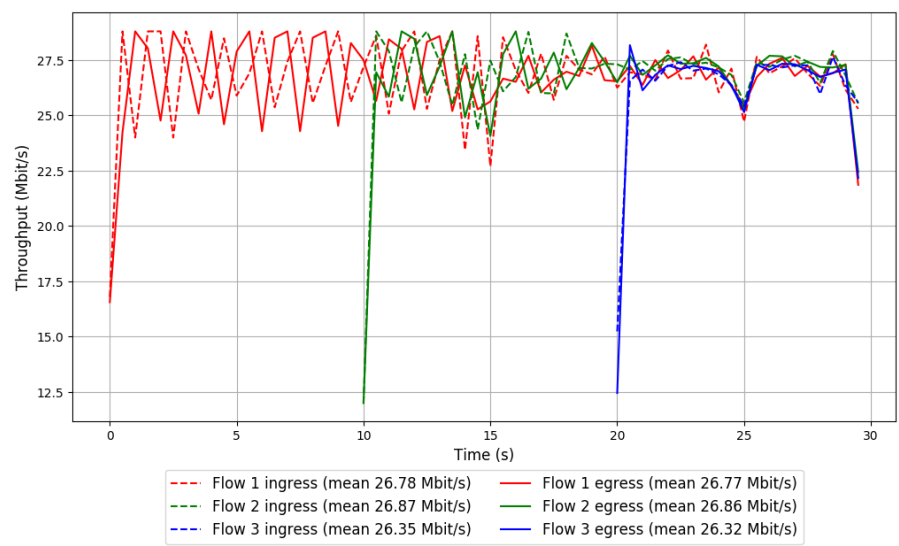
-- Flow 3:

Average throughput: 26.32 Mbit/s

95th percentile per-packet one-way delay: 40.986 ms

Loss rate: 0.93%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Mon, 10 Jul 2017 01:46:28 +0000

End at: Mon, 10 Jul 2017 01:46:58 +0000

Local clock offset: 0.76 ms

Remote clock offset: -1.694 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 39.370 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 26.90 Mbit/s

95th percentile per-packet one-way delay: 38.023 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 38.659 ms

Loss rate: 0.53%

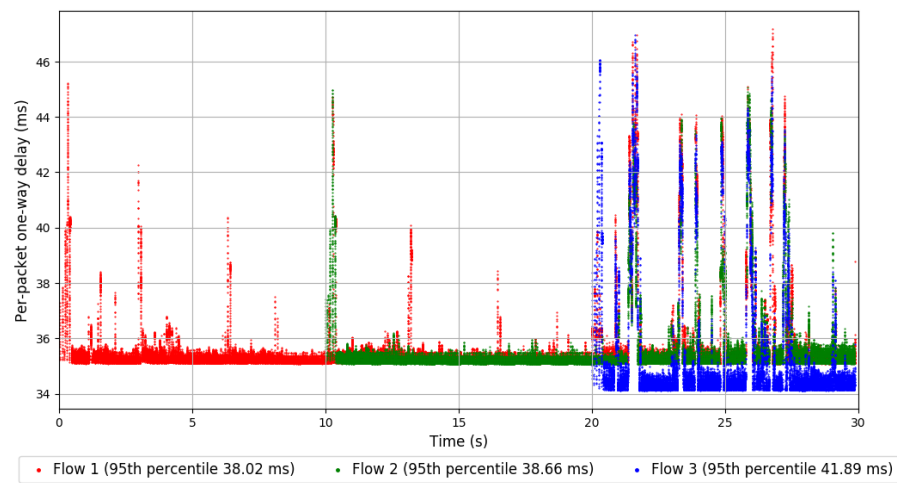
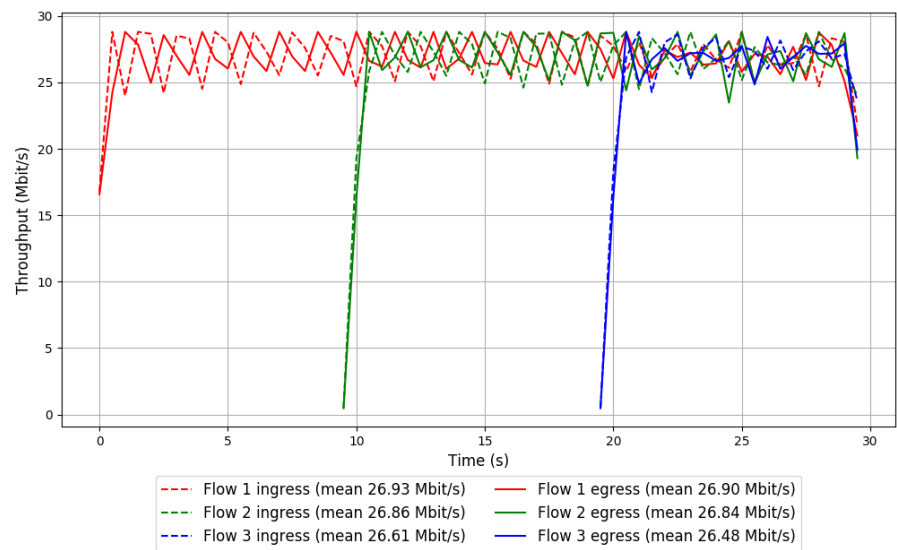
-- Flow 3:

Average throughput: 26.48 Mbit/s

95th percentile per-packet one-way delay: 41.887 ms

Loss rate: 1.30%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Mon, 10 Jul 2017 02:07:11 +0000

End at: Mon, 10 Jul 2017 02:07:41 +0000

Local clock offset: 0.917 ms

Remote clock offset: -1.263 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 38.114 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 26.88 Mbit/s

95th percentile per-packet one-way delay: 37.461 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 26.78 Mbit/s

95th percentile per-packet one-way delay: 37.919 ms

Loss rate: 0.52%

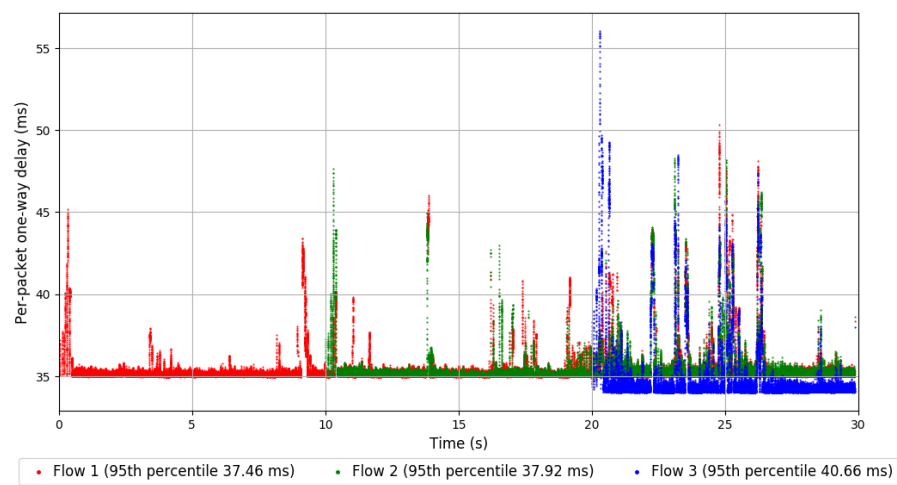
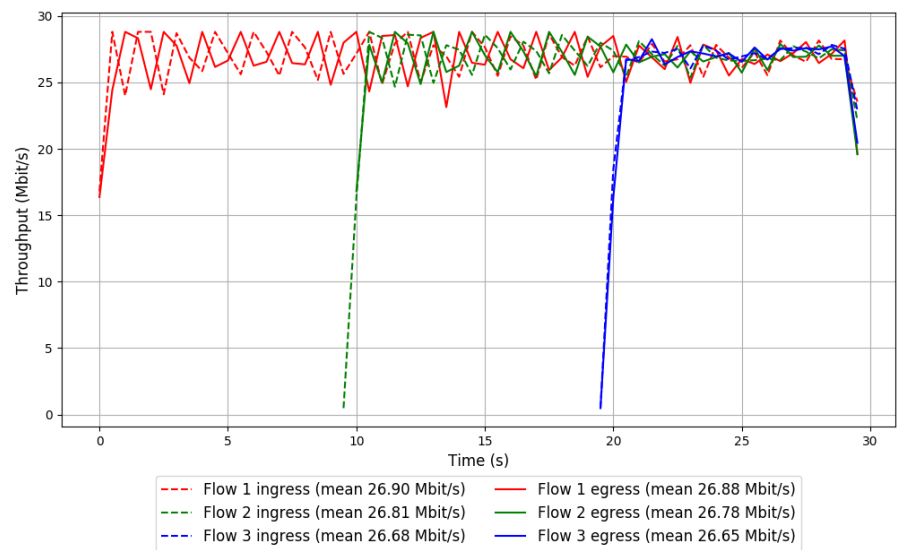
-- Flow 3:

Average throughput: 26.65 Mbit/s

95th percentile per-packet one-way delay: 40.660 ms

Loss rate: 0.96%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Mon, 10 Jul 2017 02:27:44 +0000

End at: Mon, 10 Jul 2017 02:28:14 +0000

Local clock offset: 0.93 ms

Remote clock offset: -1.849 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: 35.810 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 35.804 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 35.937 ms

Loss rate: 0.46%

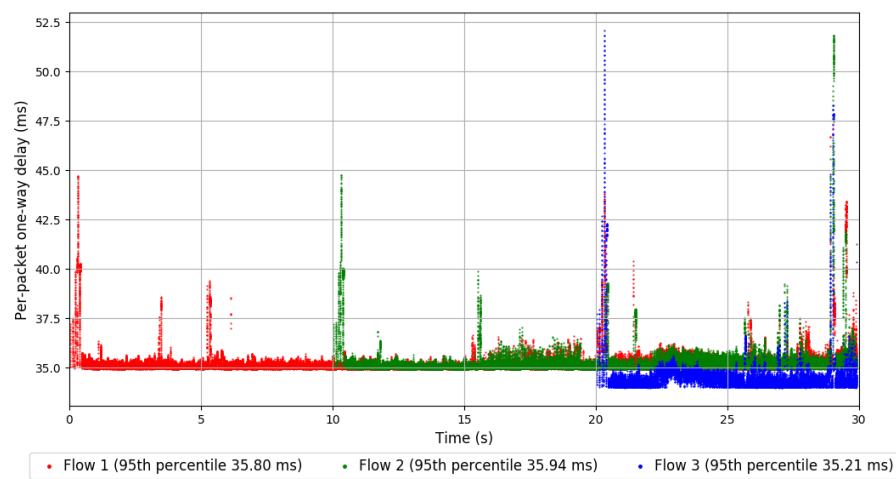
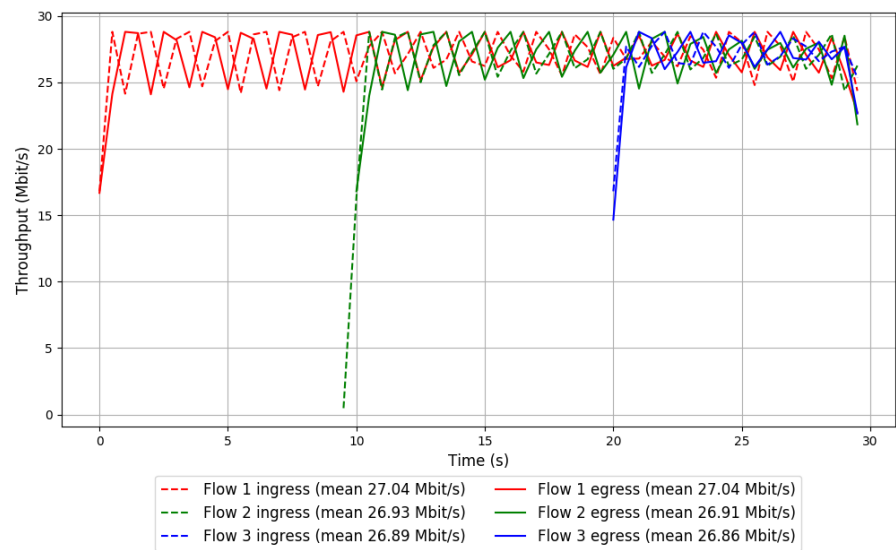
-- Flow 3:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 35.206 ms

Loss rate: 0.89%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: Mon, 10 Jul 2017 02:48:24 +0000

End at: Mon, 10 Jul 2017 02:48:54 +0000

Local clock offset: 0.862 ms

Remote clock offset: -3.859 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 35.631 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 35.618 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 35.555 ms

Loss rate: 0.47%

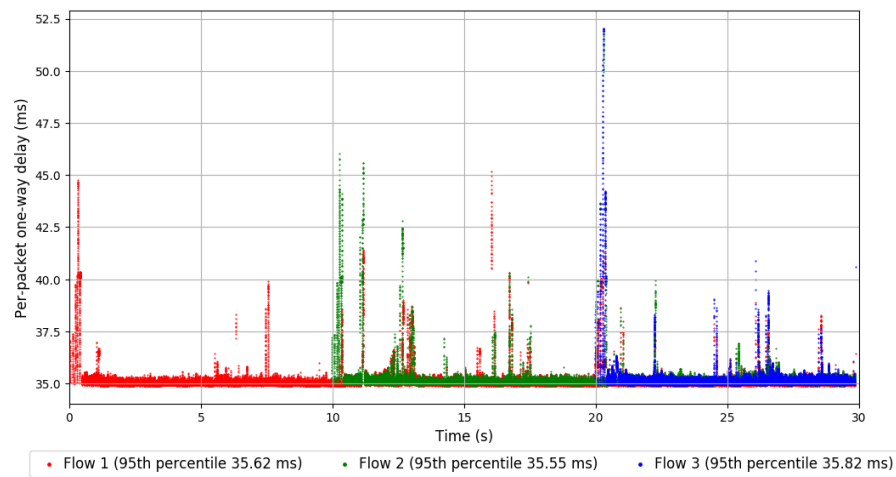
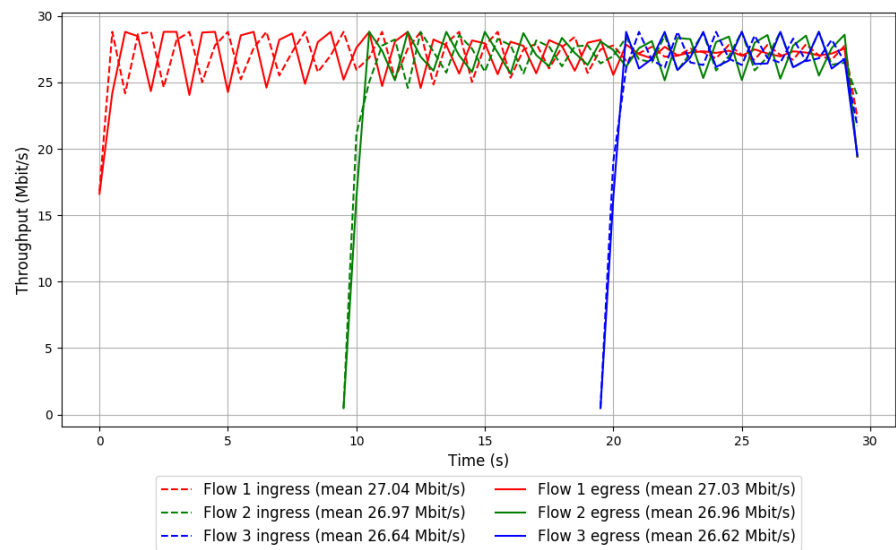
-- Flow 3:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 35.824 ms

Loss rate: 0.90%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

Start at: Sun, 09 Jul 2017 23:33:34 +0000

End at: Sun, 09 Jul 2017 23:34:04 +0000

Local clock offset: 0.591 ms

Remote clock offset: -3.462 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 35.707 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.725 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.645 ms

Loss rate: 0.43%

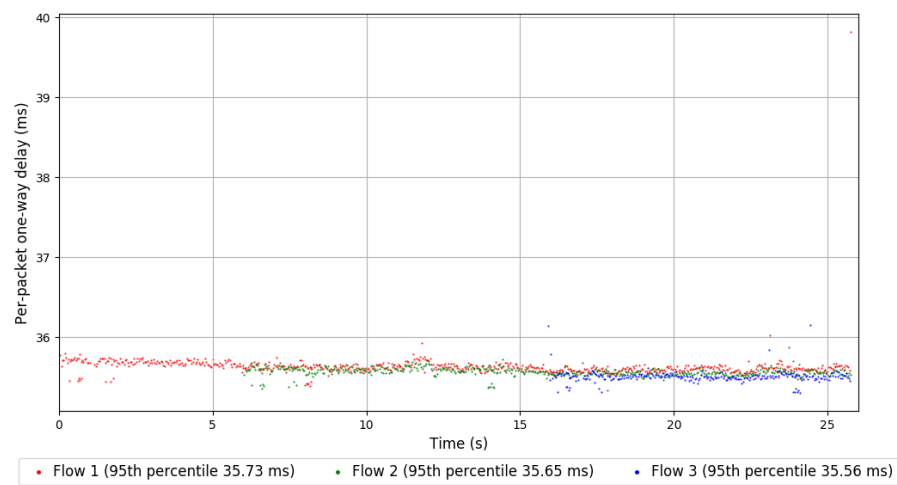
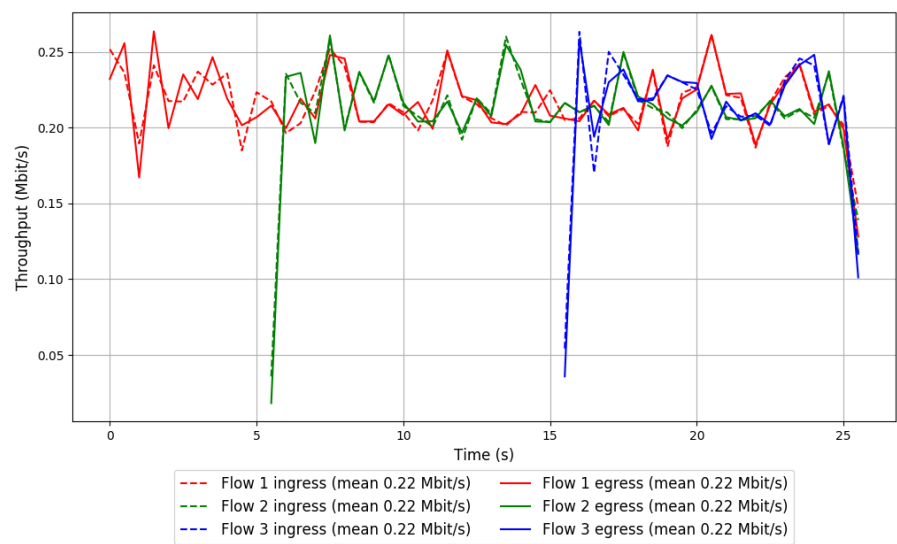
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.560 ms

Loss rate: 0.74%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: Sun, 09 Jul 2017 23:54:02 +0000

End at: Sun, 09 Jul 2017 23:54:32 +0000

Local clock offset: 0.702 ms

Remote clock offset: -1.076 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.652 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.665 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.724 ms

Loss rate: 0.43%

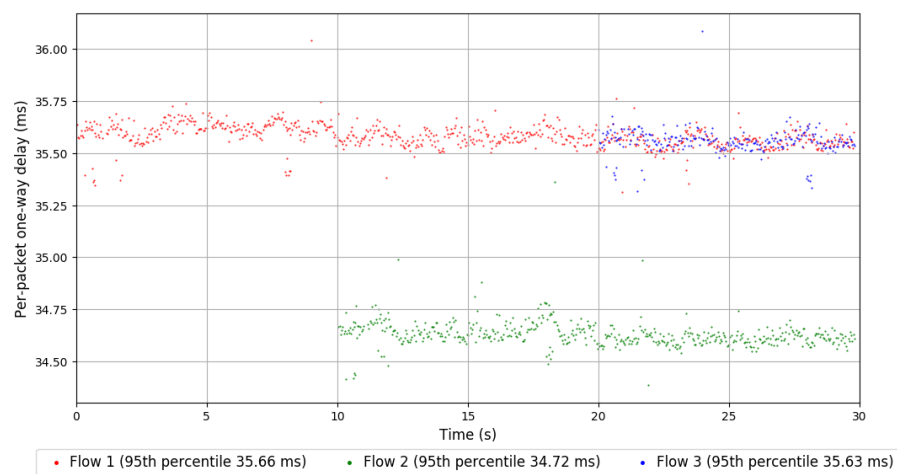
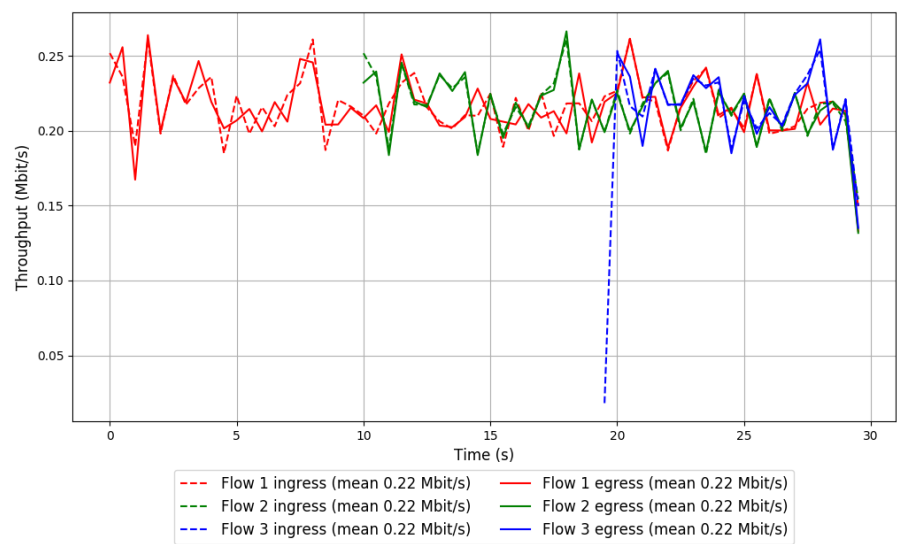
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.630 ms

Loss rate: 0.74%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: Mon, 10 Jul 2017 00:14:42 +0000

End at: Mon, 10 Jul 2017 00:15:12 +0000

Local clock offset: 0.755 ms

Remote clock offset: -3.576 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.640 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.653 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.692 ms

Loss rate: 0.42%

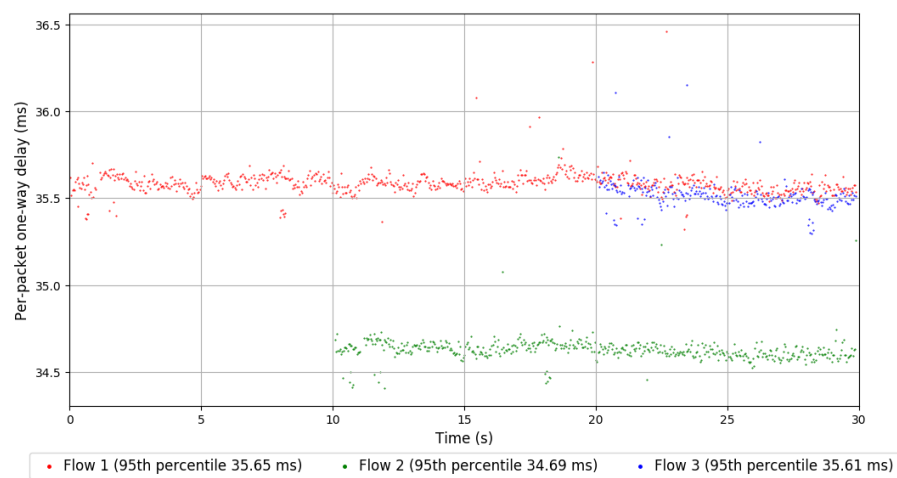
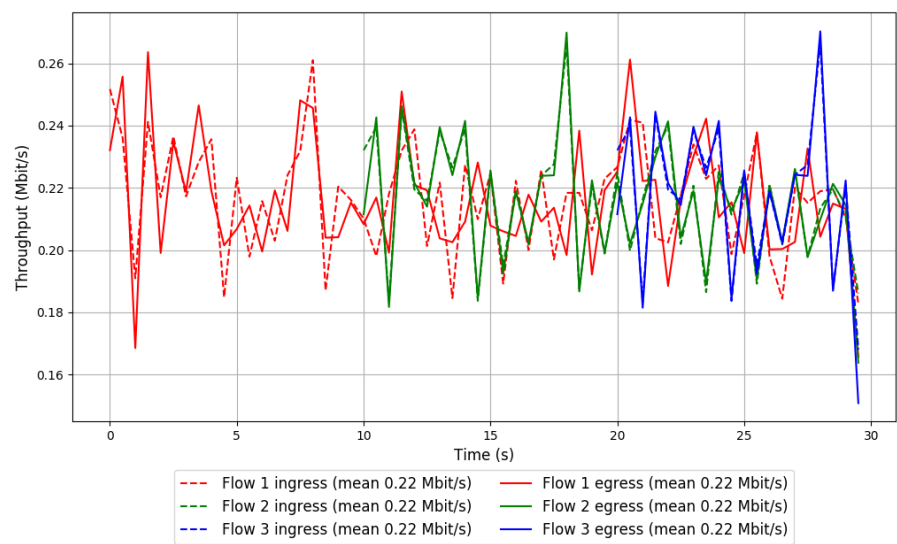
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.607 ms

Loss rate: 0.76%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: Mon, 10 Jul 2017 00:35:48 +0000

End at: Mon, 10 Jul 2017 00:36:18 +0000

Local clock offset: 0.617 ms

Remote clock offset: -1.403 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.726 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.744 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.703 ms

Loss rate: 0.43%

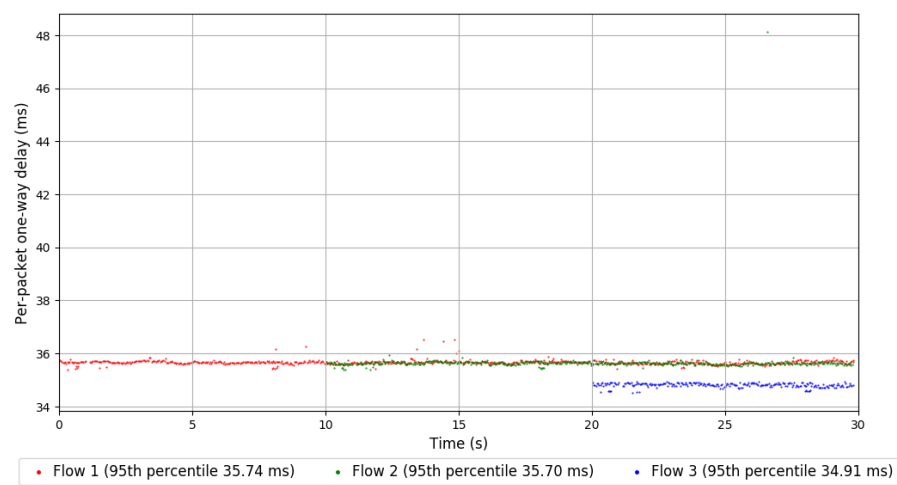
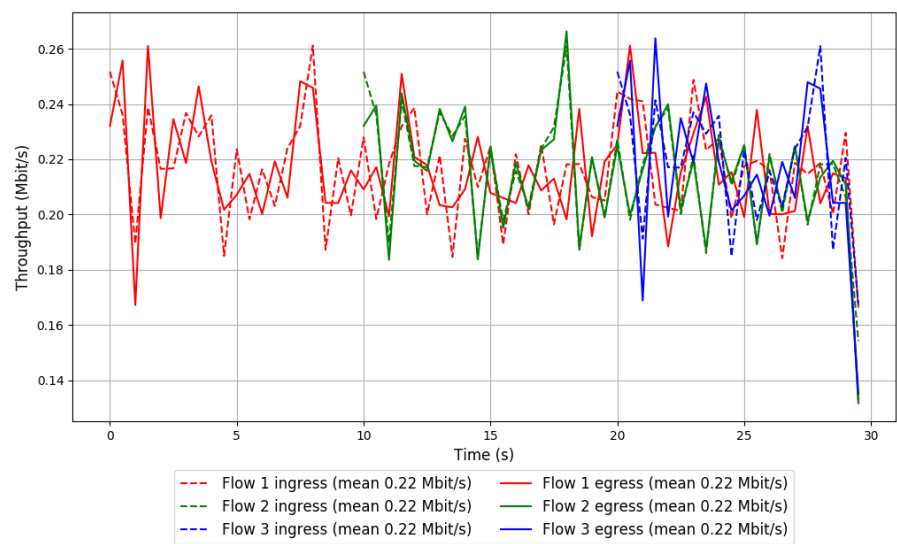
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.905 ms

Loss rate: 1.11%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: Mon, 10 Jul 2017 00:56:41 +0000

End at: Mon, 10 Jul 2017 00:57:11 +0000

Local clock offset: 0.503 ms

Remote clock offset: -3.393 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.743 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.745 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.749 ms

Loss rate: 0.43%

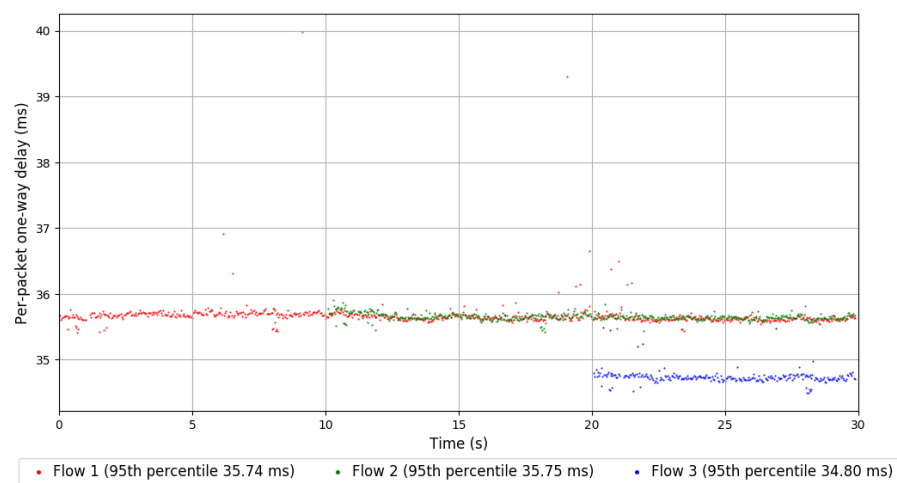
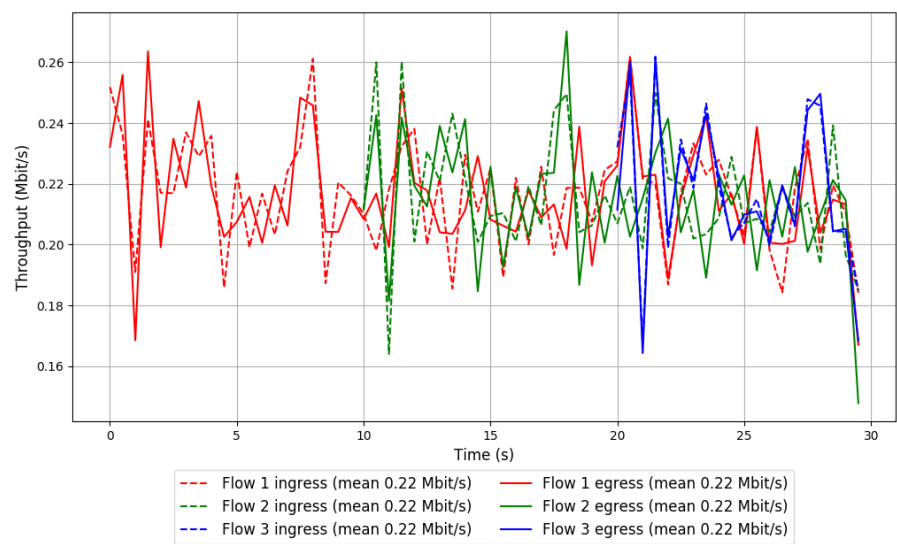
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.805 ms

Loss rate: 0.74%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: Mon, 10 Jul 2017 01:17:32 +0000

End at: Mon, 10 Jul 2017 01:18:02 +0000

Local clock offset: 0.615 ms

Remote clock offset: -3.581 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.597 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.608 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.557 ms

Loss rate: 0.43%

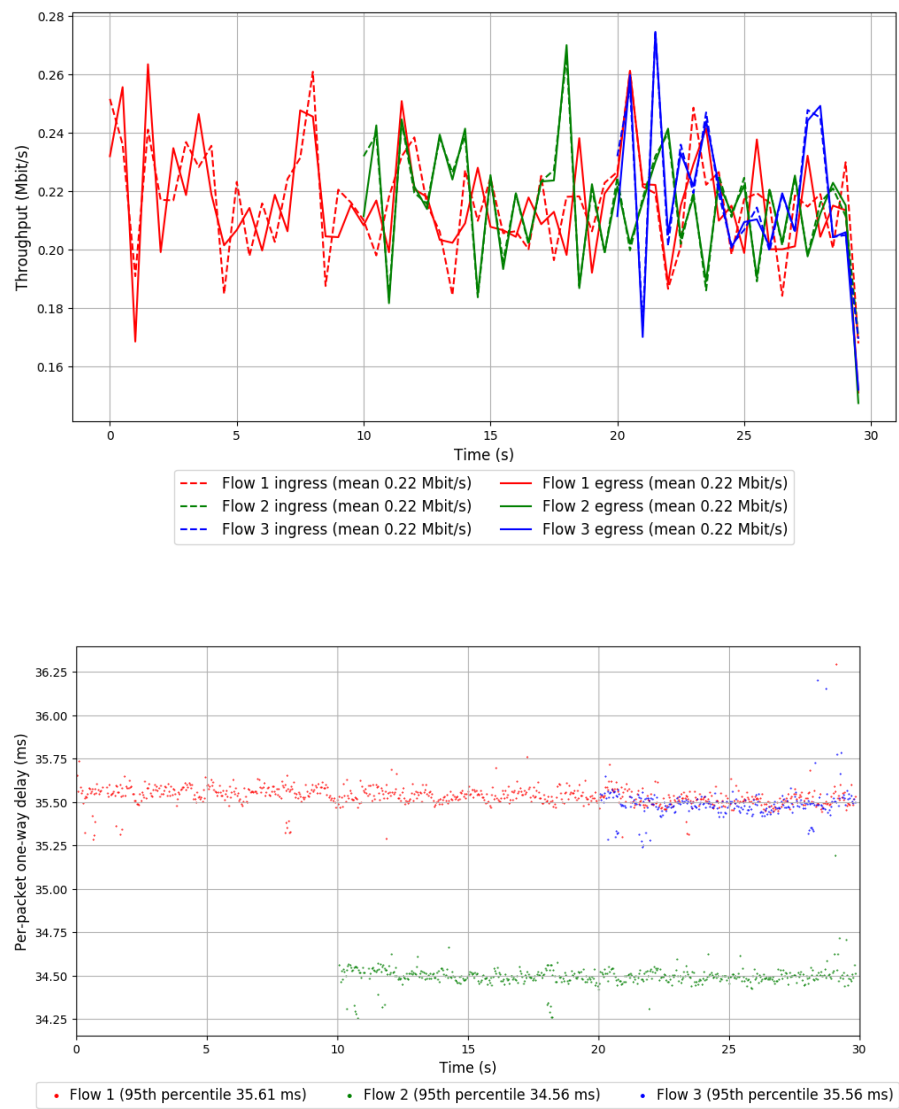
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.562 ms

Loss rate: 0.76%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: Mon, 10 Jul 2017 01:38:15 +0000

End at: Mon, 10 Jul 2017 01:38:45 +0000

Local clock offset: 0.735 ms

Remote clock offset: -1.139 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.286 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.299 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.340 ms

Loss rate: 0.42%

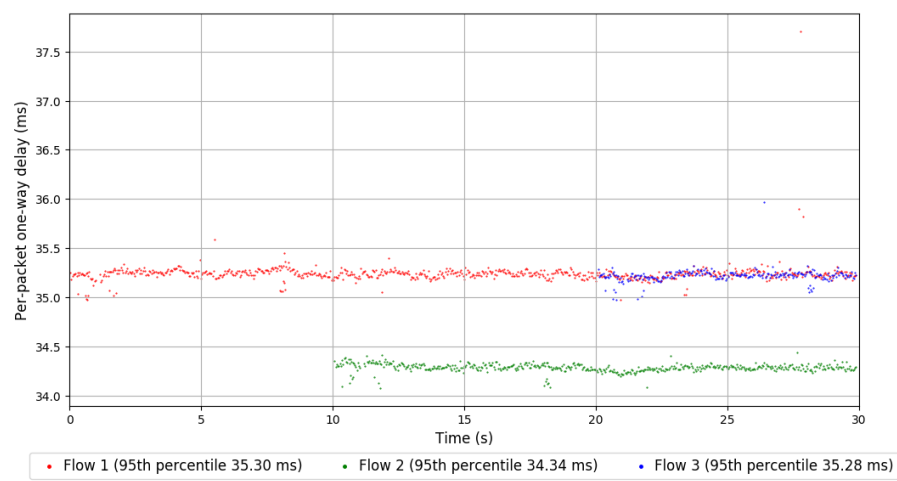
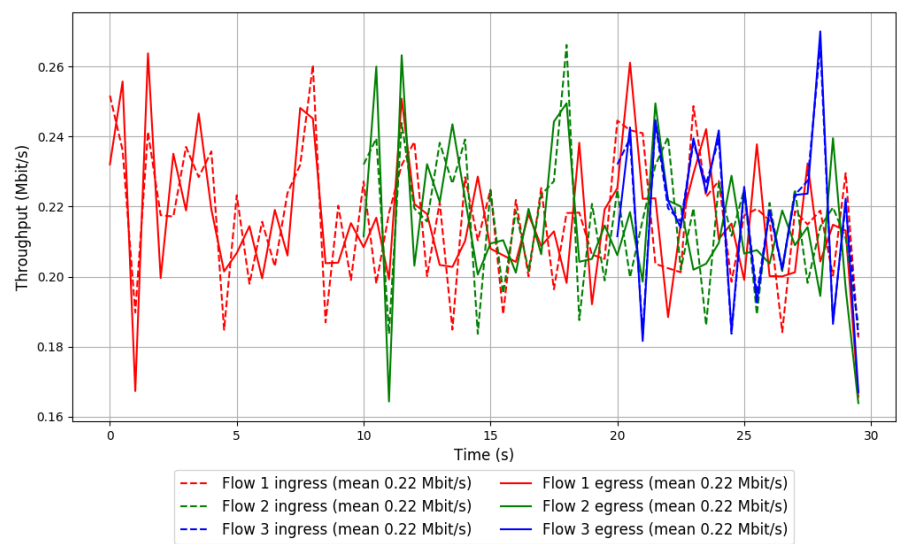
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.283 ms

Loss rate: 0.73%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: Mon, 10 Jul 2017 01:58:59 +0000

End at: Mon, 10 Jul 2017 01:59:29 +0000

Local clock offset: 0.872 ms

Remote clock offset: -3.867 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.125 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.140 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.221 ms

Loss rate: 0.42%

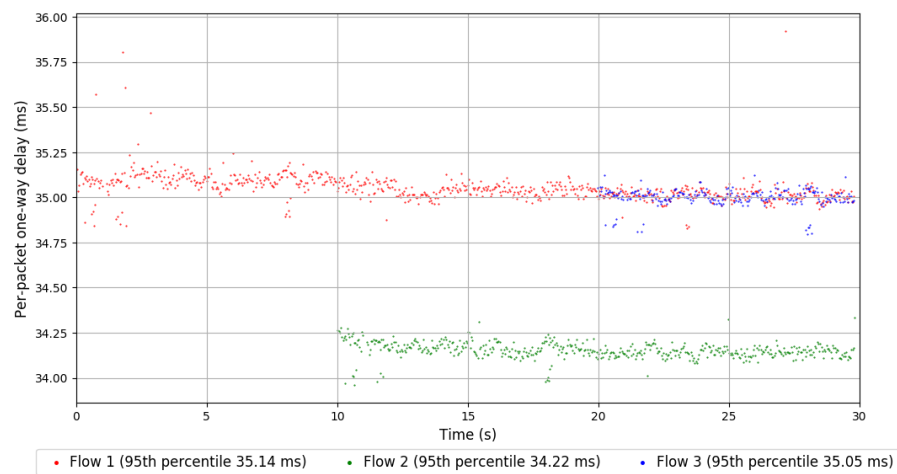
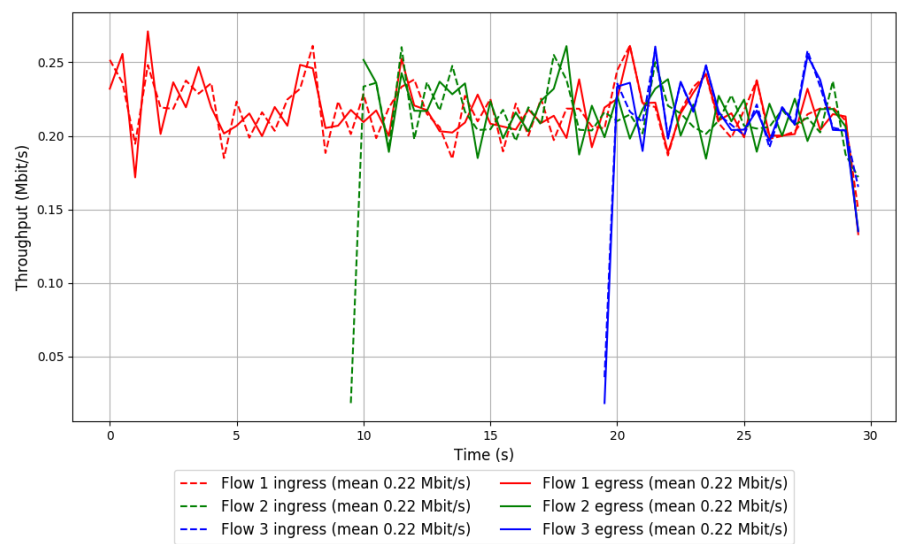
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.054 ms

Loss rate: 1.09%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

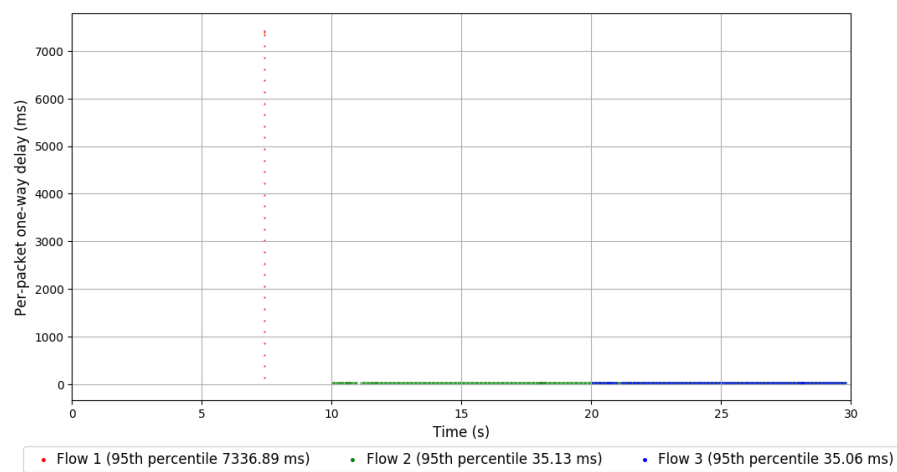
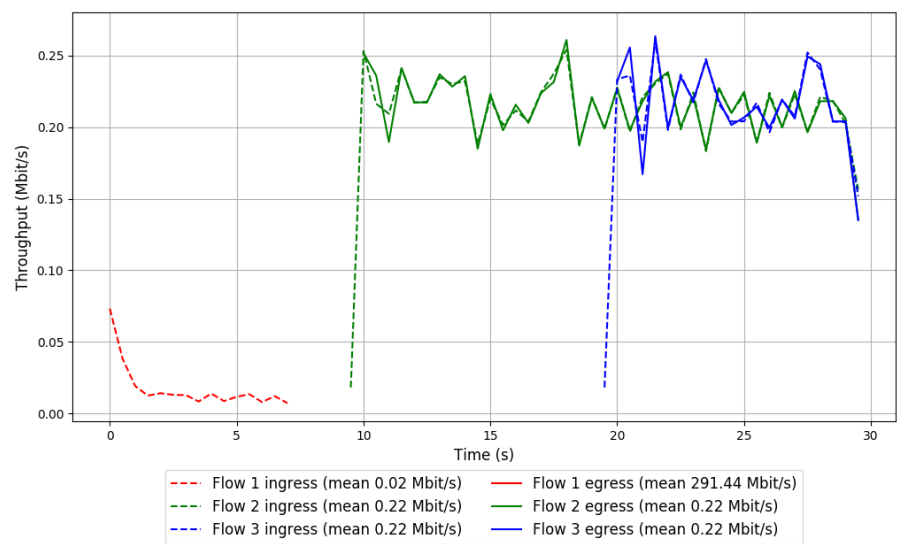
Start at: Mon, 10 Jul 2017 02:19:33 +0000

End at: Mon, 10 Jul 2017 02:20:03 +0000

Local clock offset: 0.873 ms

Remote clock offset: -3.809 ms

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: Mon, 10 Jul 2017 02:40:12 +0000

End at: Mon, 10 Jul 2017 02:40:42 +0000

Local clock offset: 0.796 ms

Remote clock offset: -3.886 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.025 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.203 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.025 ms

Loss rate: 0.43%

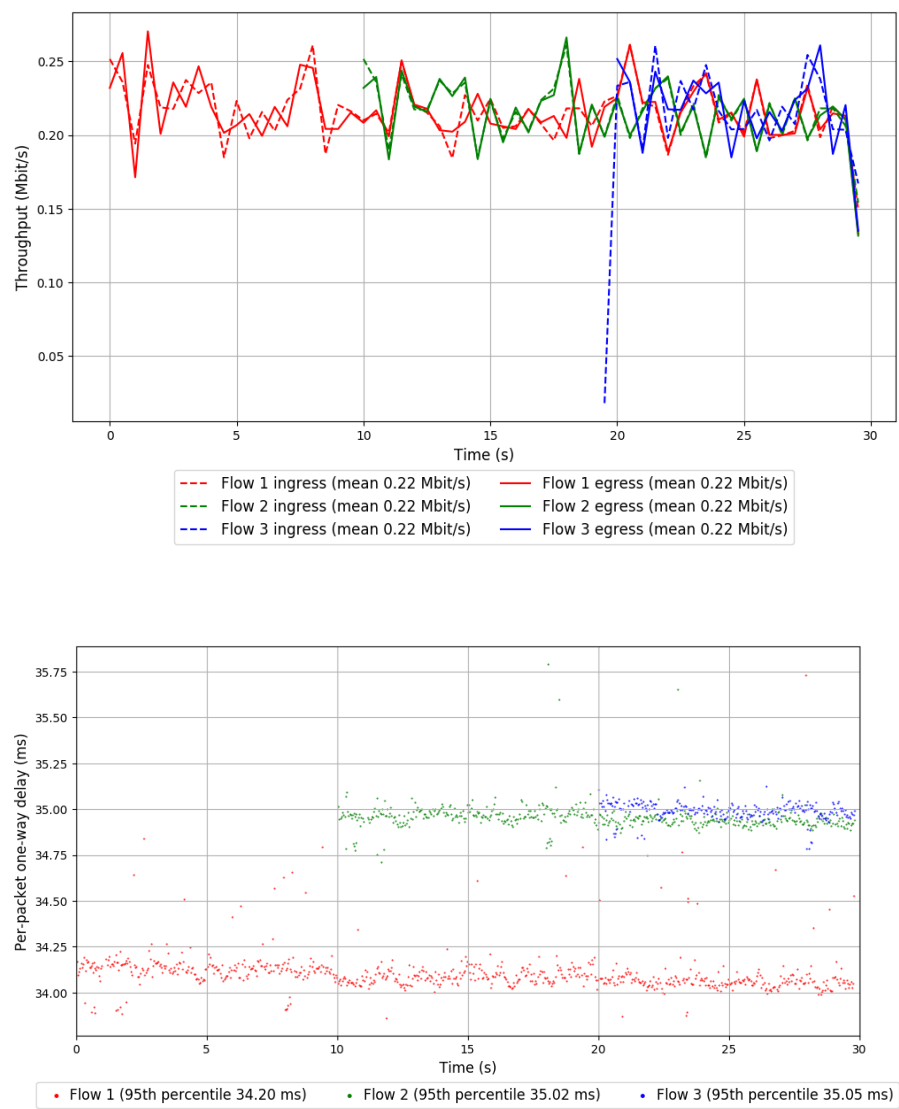
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.049 ms

Loss rate: 0.74%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Sun, 09 Jul 2017 23:30:50 +0000

End at: Sun, 09 Jul 2017 23:31:20 +0000

Local clock offset: 0.675 ms

Remote clock offset: -3.519 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.24 Mbit/s

95th percentile per-packet one-way delay: 42.139 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 9.18 Mbit/s

95th percentile per-packet one-way delay: 41.664 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 41.858 ms

Loss rate: 0.50%

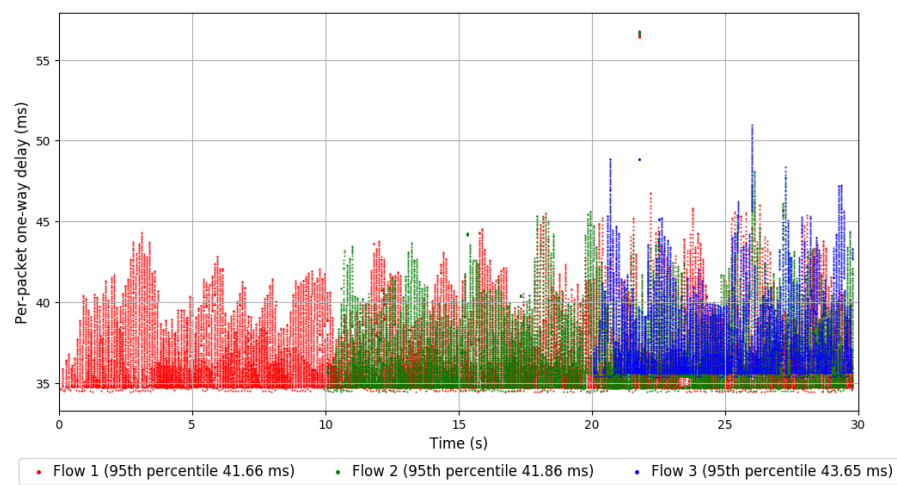
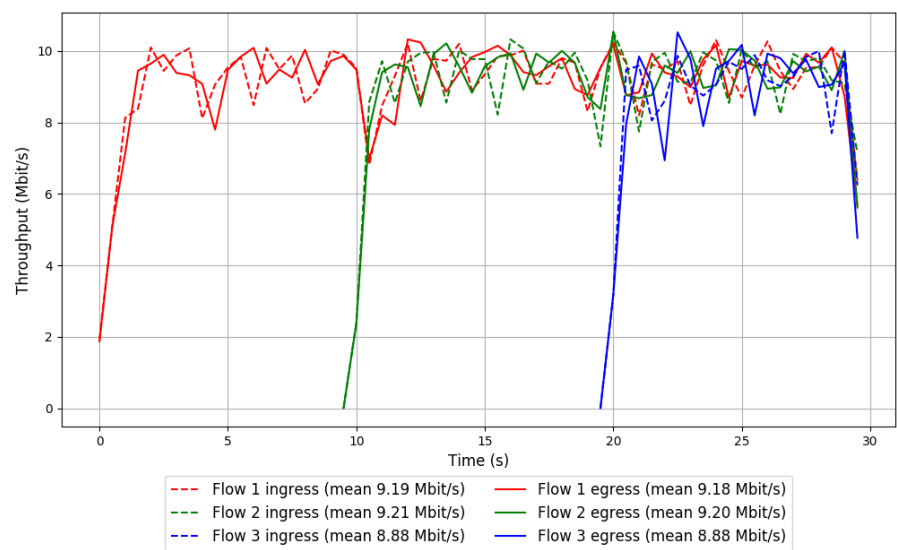
-- Flow 3:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 43.645 ms

Loss rate: 1.04%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Sun, 09 Jul 2017 23:51:17 +0000

End at: Sun, 09 Jul 2017 23:51:47 +0000

Local clock offset: 0.596 ms

Remote clock offset: -1.462 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.12 Mbit/s

95th percentile per-packet one-way delay: 42.132 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 9.19 Mbit/s

95th percentile per-packet one-way delay: 41.821 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 41.986 ms

Loss rate: 0.47%

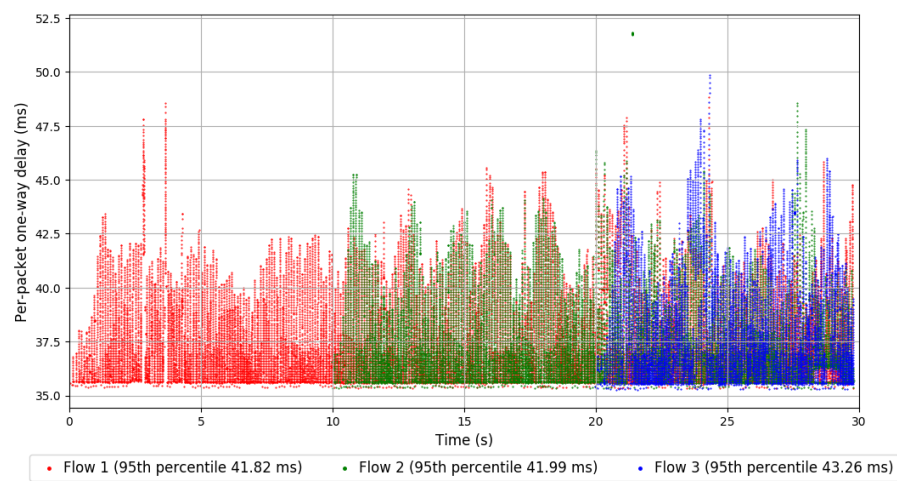
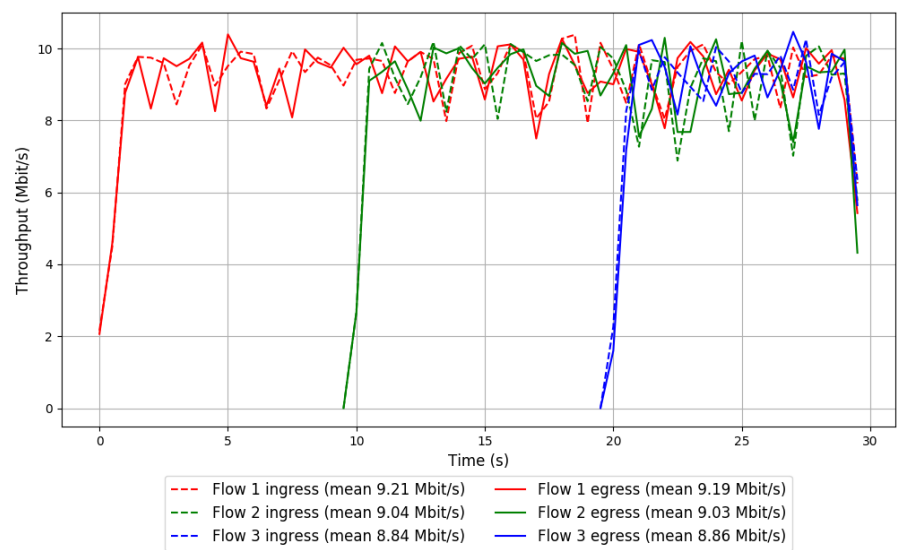
-- Flow 3:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 43.257 ms

Loss rate: 0.59%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Mon, 10 Jul 2017 00:11:57 +0000

End at: Mon, 10 Jul 2017 00:12:27 +0000

Local clock offset: 0.775 ms

Remote clock offset: -1.451 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 42.902 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 9.24 Mbit/s

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

Loss rate: 0.36%

-- Flow 2:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 43.391 ms

Loss rate: 0.54%

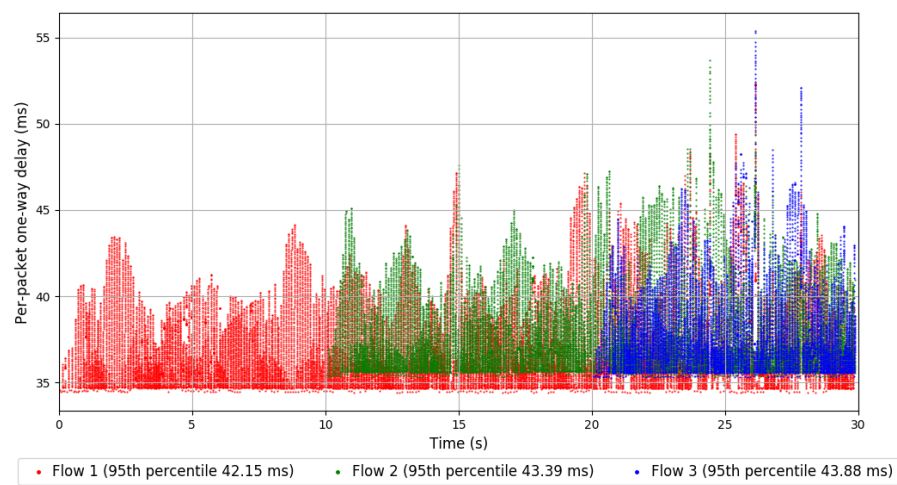
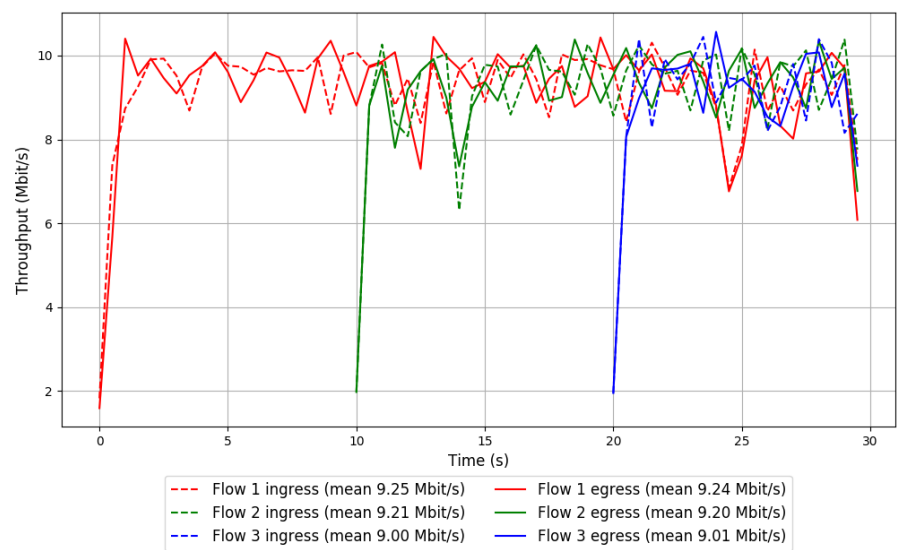
-- Flow 3:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 43.884 ms

Loss rate: 0.70%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: Mon, 10 Jul 2017 00:33:03 +0000

End at: Mon, 10 Jul 2017 00:33:33 +0000

Local clock offset: 0.692 ms

Remote clock offset: -1.345 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.24 Mbit/s

95th percentile per-packet one-way delay: 42.601 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 42.290 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 9.08 Mbit/s

95th percentile per-packet one-way delay: 43.062 ms

Loss rate: 0.54%

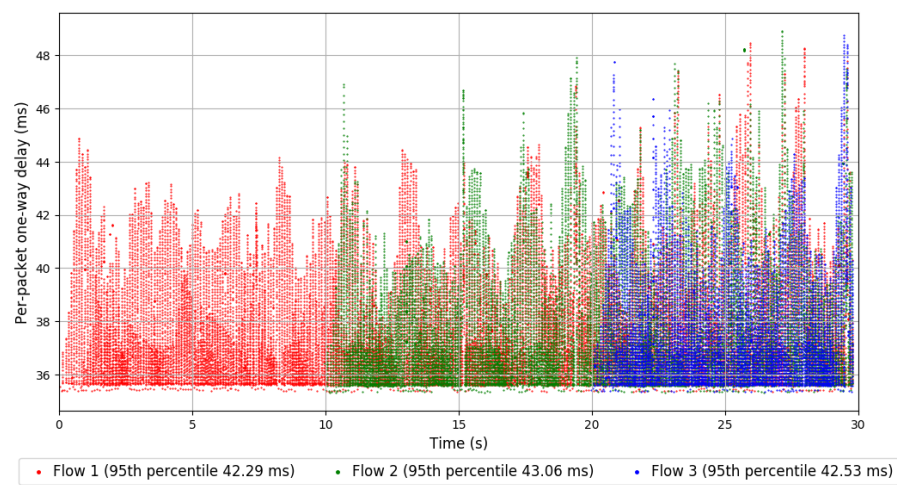
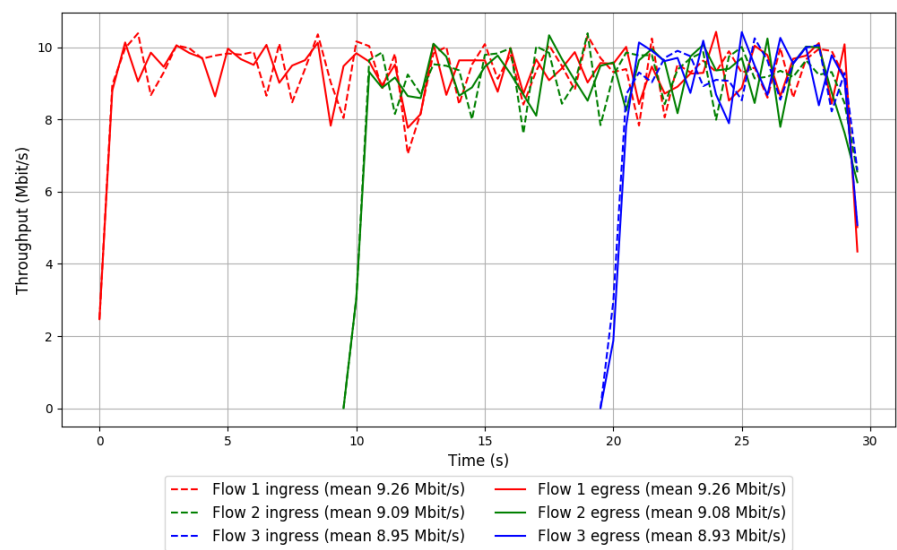
-- Flow 3:

Average throughput: 8.93 Mbit/s

95th percentile per-packet one-way delay: 42.533 ms

Loss rate: 1.02%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: Mon, 10 Jul 2017 00:53:56 +0000

End at: Mon, 10 Jul 2017 00:54:26 +0000

Local clock offset: 0.517 ms

Remote clock offset: -1.462 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.56 Mbit/s

95th percentile per-packet one-way delay: 42.045 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 41.458 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 9.31 Mbit/s

95th percentile per-packet one-way delay: 42.627 ms

Loss rate: 0.54%

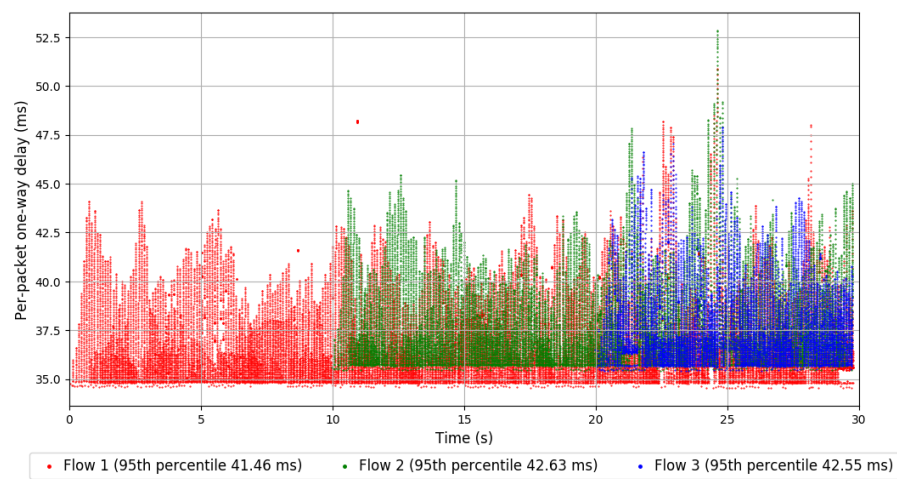
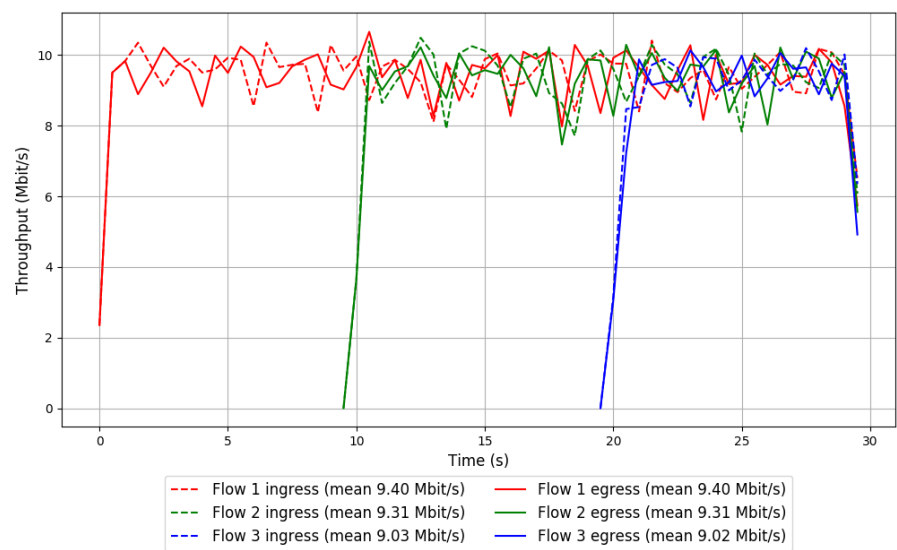
-- Flow 3:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 42.554 ms

Loss rate: 1.24%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Mon, 10 Jul 2017 01:14:43 +0000

End at: Mon, 10 Jul 2017 01:15:13 +0000

Local clock offset: 0.676 ms

Remote clock offset: -1.458 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 41.685 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 40.955 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 41.983 ms

Loss rate: 0.55%

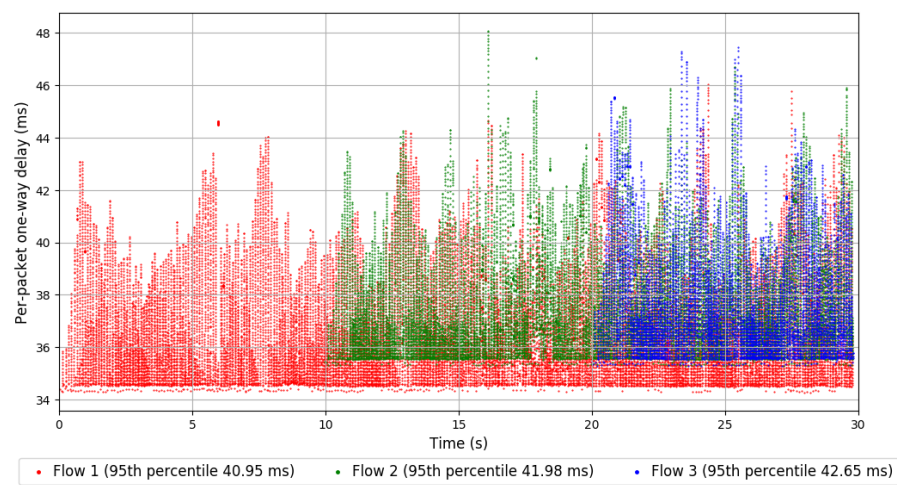
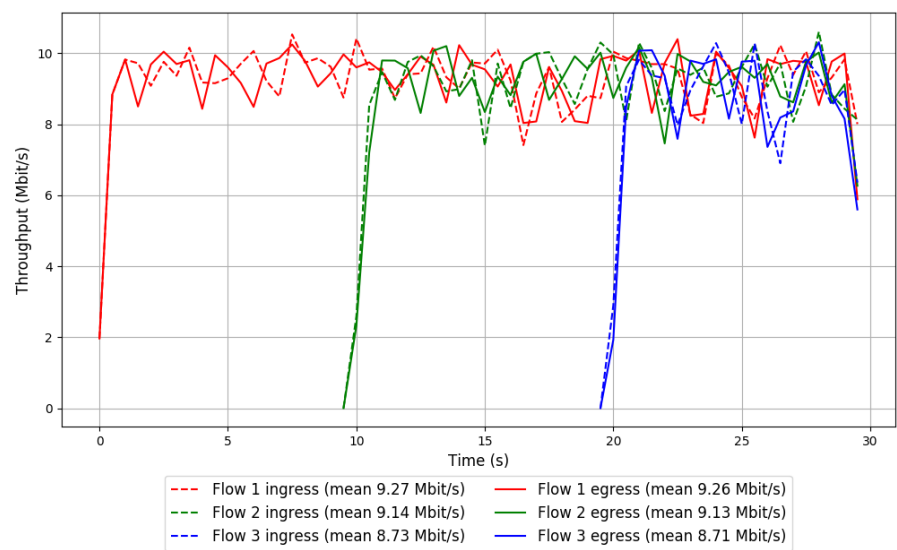
-- Flow 3:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 42.649 ms

Loss rate: 1.08%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: Mon, 10 Jul 2017 01:35:30 +0000

End at: Mon, 10 Jul 2017 01:36:00 +0000

Local clock offset: 0.817 ms

Remote clock offset: -1.007 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:39:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.41 Mbit/s

95th percentile per-packet one-way delay: 41.651 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 41.004 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 41.611 ms

Loss rate: 0.23%

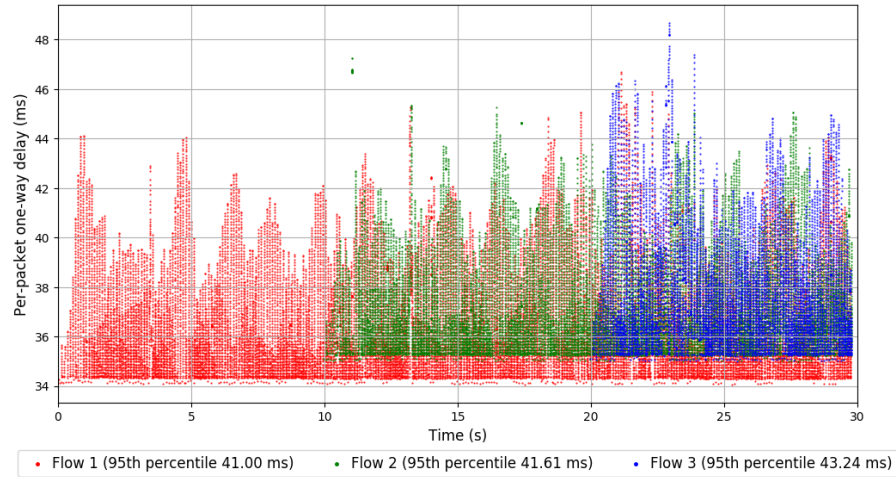
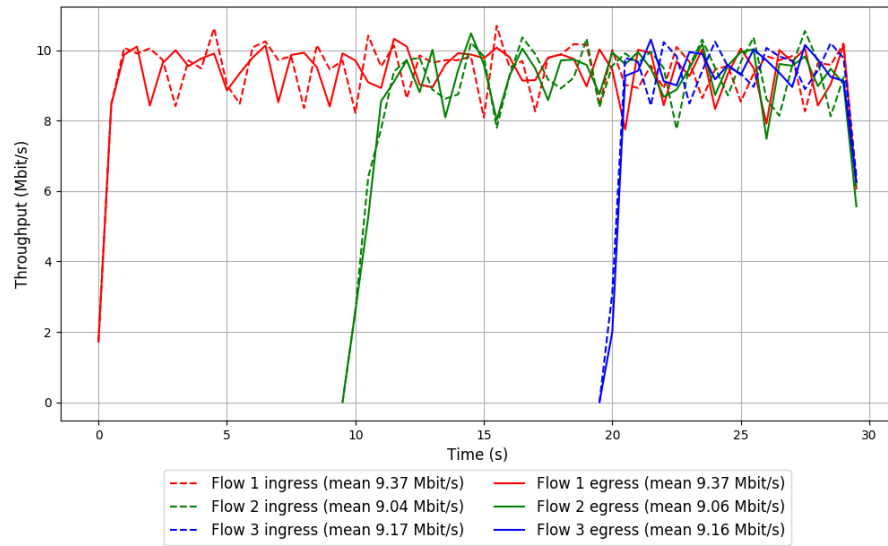
-- Flow 3:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 43.240 ms

Loss rate: 0.97%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Mon, 10 Jul 2017 01:56:15 +0000

End at: Mon, 10 Jul 2017 01:56:45 +0000

Local clock offset: 0.871 ms

Remote clock offset: -3.8 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:40:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.38 Mbit/s

95th percentile per-packet one-way delay: 41.543 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 41.203 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 42.276 ms

Loss rate: 0.40%

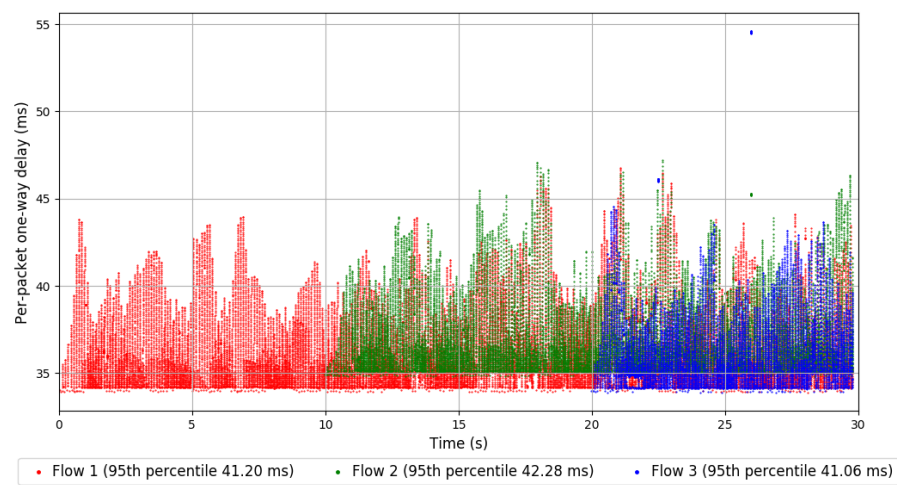
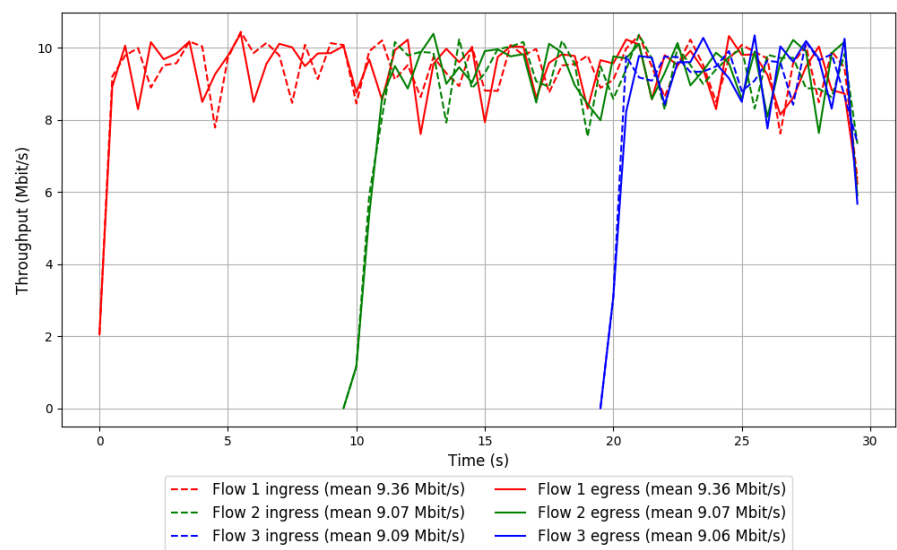
-- Flow 3:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 41.065 ms

Loss rate: 1.16%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Mon, 10 Jul 2017 02:16:50 +0000

End at: Mon, 10 Jul 2017 02:17:20 +0000

Local clock offset: 0.859 ms

Remote clock offset: -3.738 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:40:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.08 Mbit/s

95th percentile per-packet one-way delay: 41.414 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 41.732 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 40.391 ms

Loss rate: 0.52%

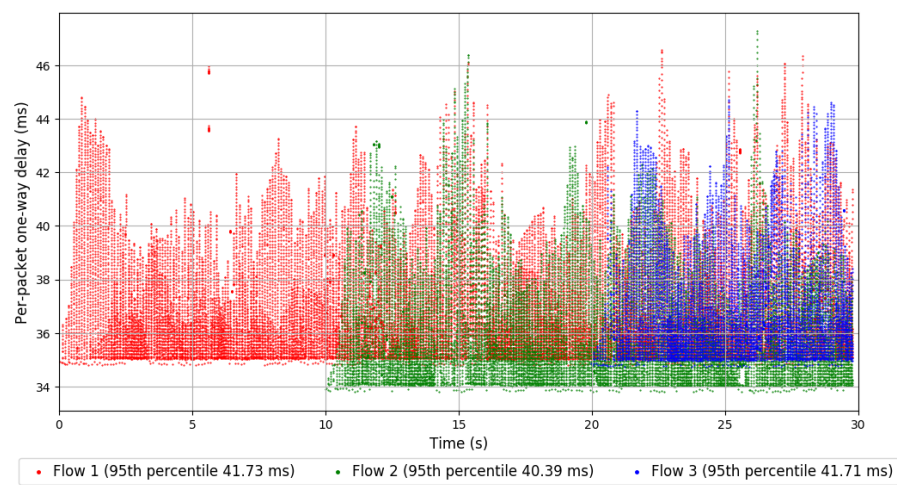
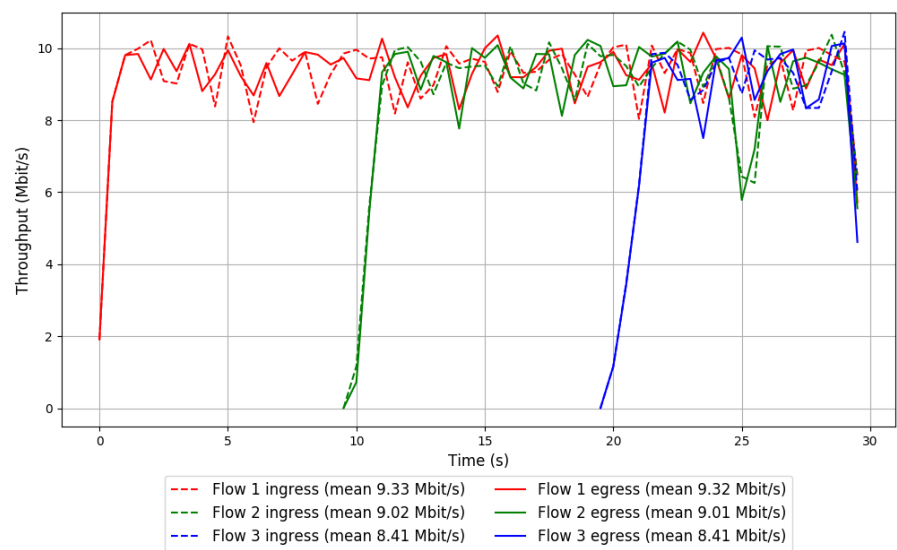
-- Flow 3:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 41.712 ms

Loss rate: 1.02%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Mon, 10 Jul 2017 02:37:28 +0000

End at: Mon, 10 Jul 2017 02:37:58 +0000

Local clock offset: 0.915 ms

Remote clock offset: -1.31 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:40:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.13 Mbit/s

95th percentile per-packet one-way delay: 41.089 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 40.541 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 40.993 ms

Loss rate: 0.37%

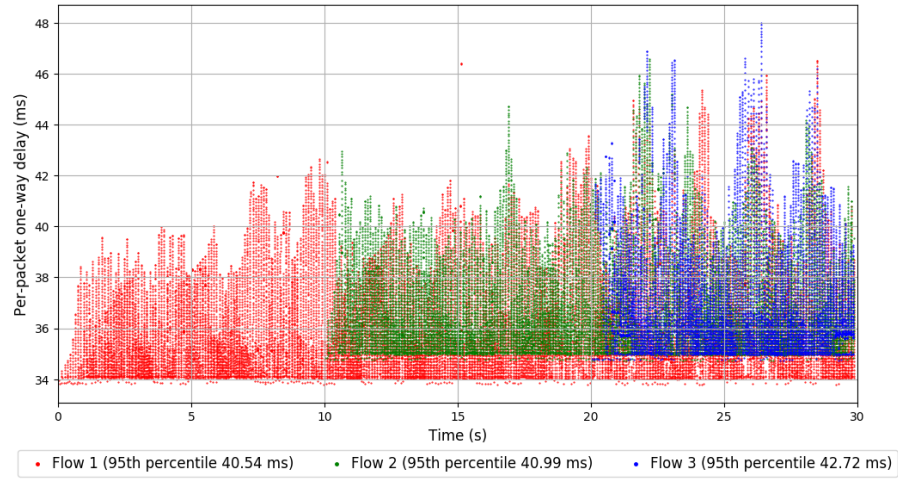
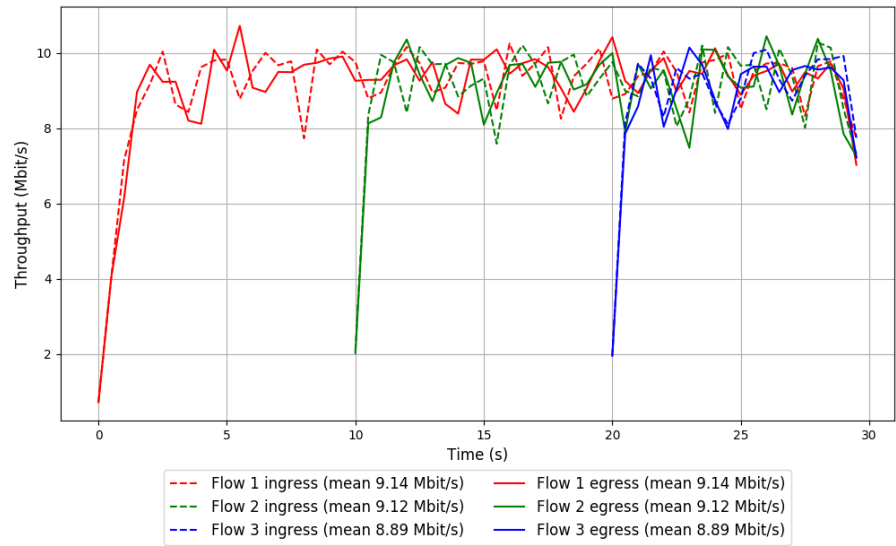
-- Flow 3:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 42.719 ms

Loss rate: 0.99%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

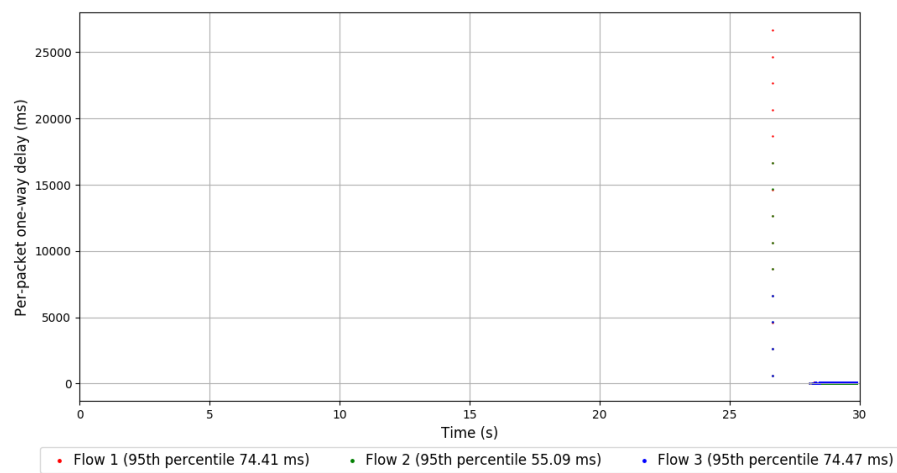
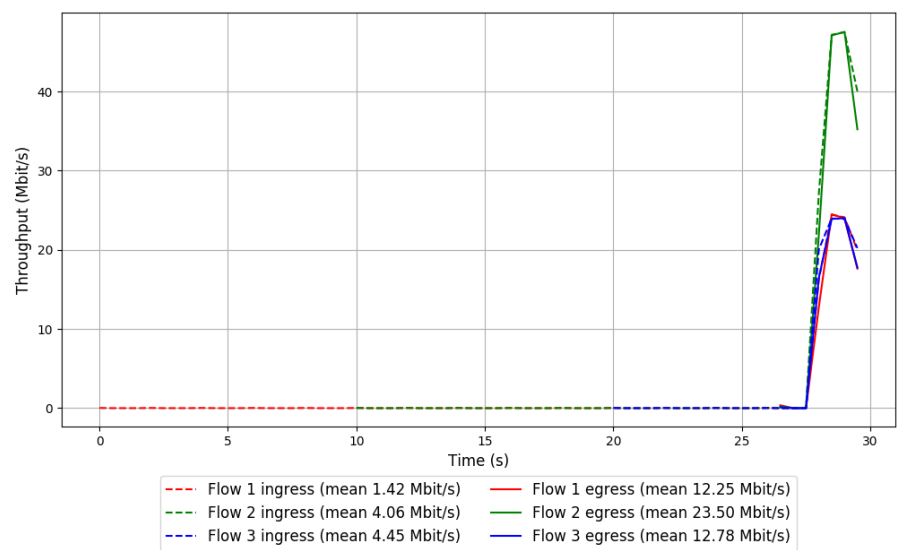
Start at: Sun, 09 Jul 2017 23:34:51 +0000

End at: Sun, 09 Jul 2017 23:35:21 +0000

Local clock offset: 0.572 ms

Remote clock offset: -1.114 ms

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



Run 2: Statistics of TaoVA-100x

Start at: Sun, 09 Jul 2017 23:55:20 +0000

End at: Sun, 09 Jul 2017 23:55:50 +0000

Local clock offset: 0.6 ms

Remote clock offset: -1.517 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:40:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 73.641 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 54.263 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 73.966 ms

Loss rate: 0.48%

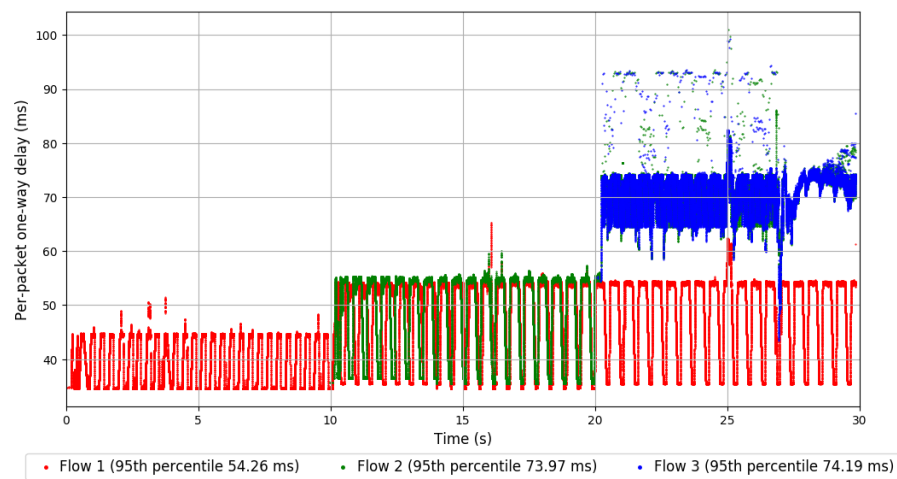
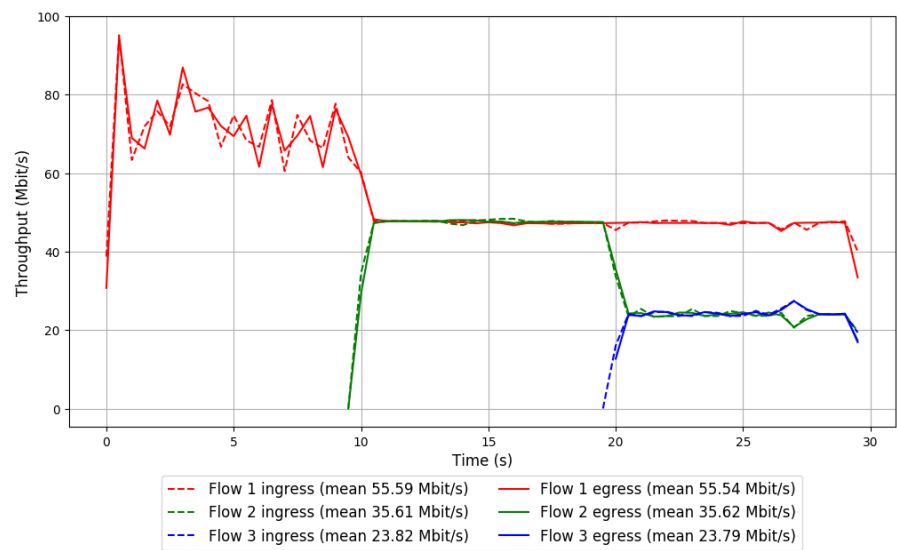
-- Flow 3:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 74.190 ms

Loss rate: 1.31%

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



Run 3: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 00:16:01 +0000

End at: Mon, 10 Jul 2017 00:16:31 +0000

Local clock offset: 0.671 ms

Remote clock offset: -1.398 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:40:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 64.581 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 49.92 Mbit/s

95th percentile per-packet one-way delay: 64.593 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 63.852 ms

Loss rate: 0.71%

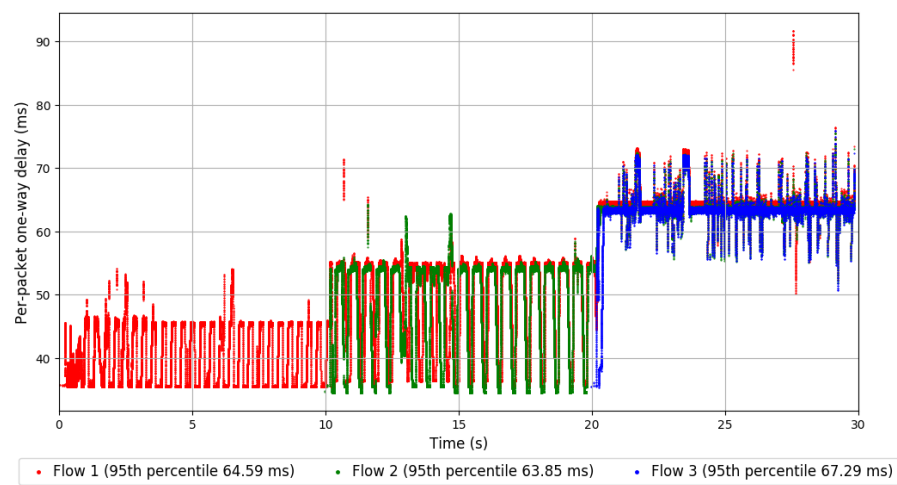
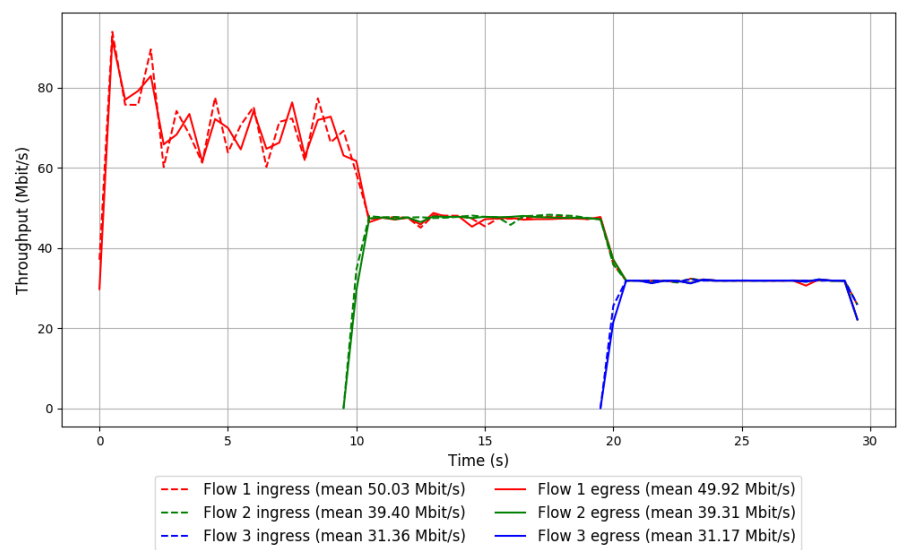
-- Flow 3:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 67.288 ms

Loss rate: 1.43%

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



Run 4: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 00:37:06 +0000

End at: Mon, 10 Jul 2017 00:37:36 +0000

Local clock offset: 0.609 ms

Remote clock offset: -1.014 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:40:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.54 Mbit/s

95th percentile per-packet one-way delay: 64.870 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 64.880 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 39.06 Mbit/s

95th percentile per-packet one-way delay: 64.680 ms

Loss rate: 0.81%

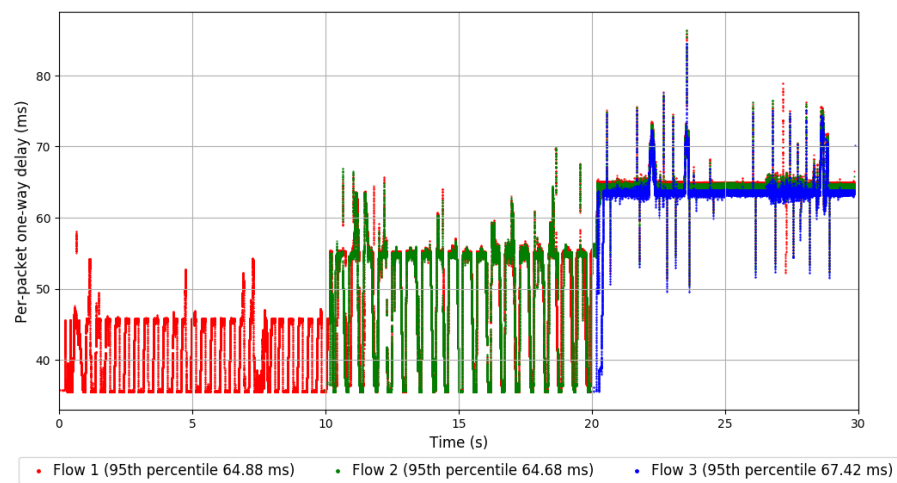
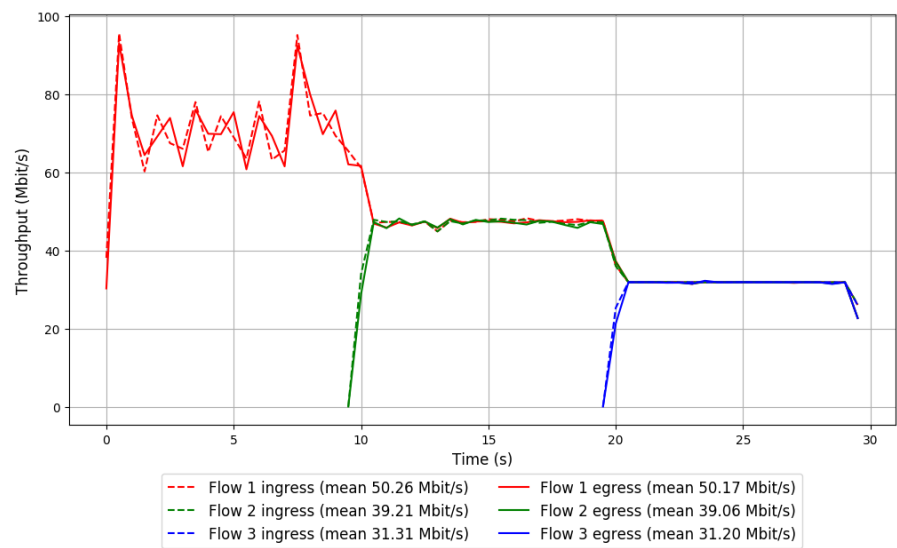
-- Flow 3:

Average throughput: 31.20 Mbit/s

95th percentile per-packet one-way delay: 67.424 ms

Loss rate: 1.30%

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



Run 5: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 00:57:59 +0000

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

Local clock offset: 0.59 ms

Remote clock offset: -1.498 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:40:47 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 64.831 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 63.753 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 64.890 ms

Loss rate: 0.84%

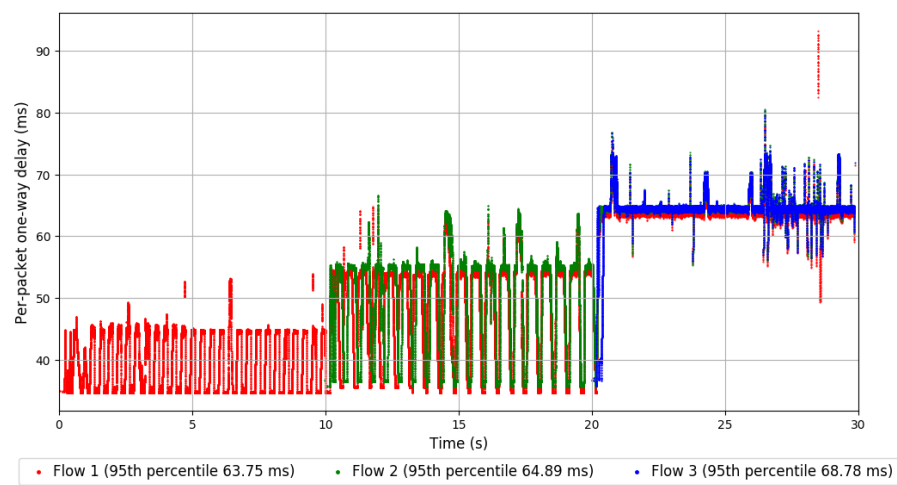
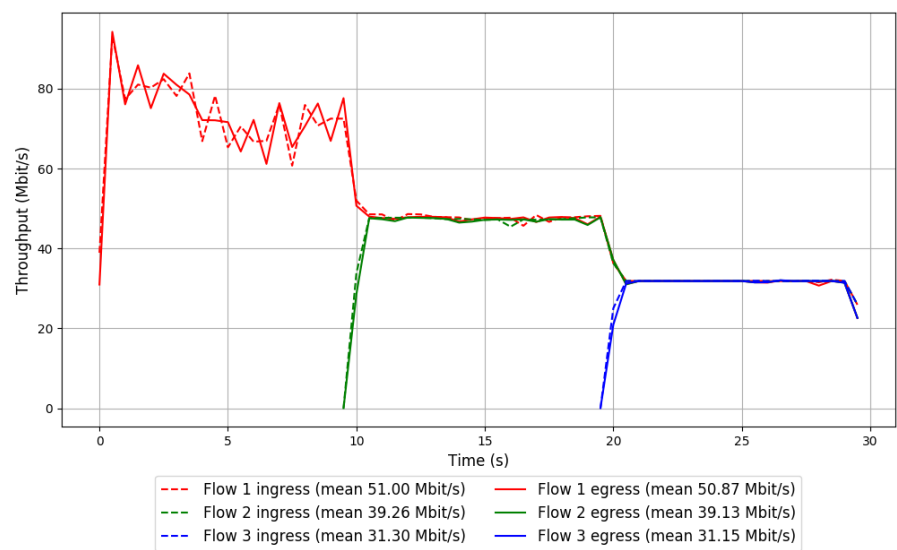
-- Flow 3:

Average throughput: 31.15 Mbit/s

95th percentile per-packet one-way delay: 68.783 ms

Loss rate: 1.44%

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



Run 6: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 01:18:50 +0000

End at: Mon, 10 Jul 2017 01:19:20 +0000

Local clock offset: 0.685 ms

Remote clock offset: -1.543 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:41:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 72.837 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 47.39 Mbit/s

95th percentile per-packet one-way delay: 72.788 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 73.155 ms

Loss rate: 0.89%

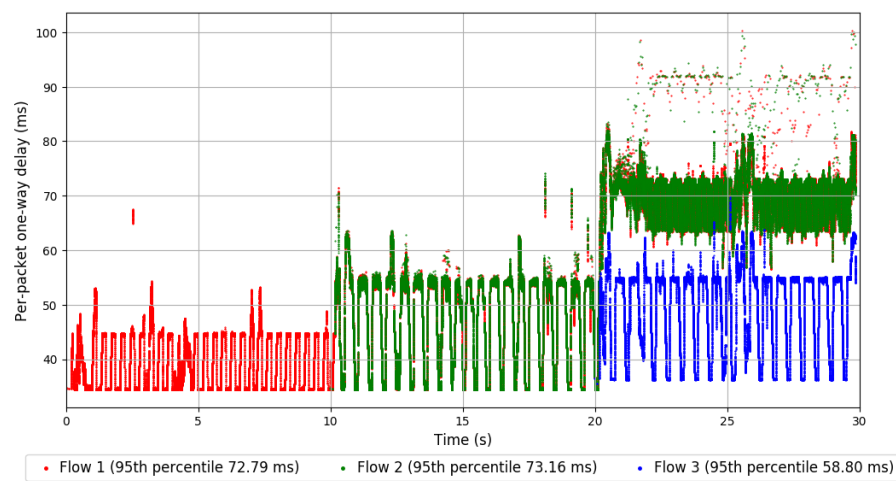
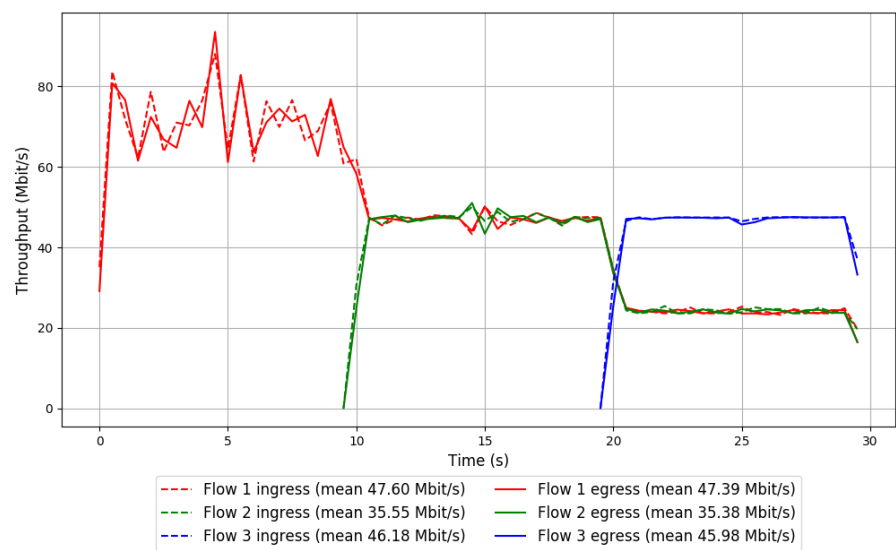
-- Flow 3:

Average throughput: 45.98 Mbit/s

95th percentile per-packet one-way delay: 58.798 ms

Loss rate: 1.29%

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



Run 7: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 01:39:33 +0000

End at: Mon, 10 Jul 2017 01:40:03 +0000

Local clock offset: 0.732 ms

Remote clock offset: -1.598 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:41:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 73.259 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 73.062 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 73.708 ms

Loss rate: 0.84%

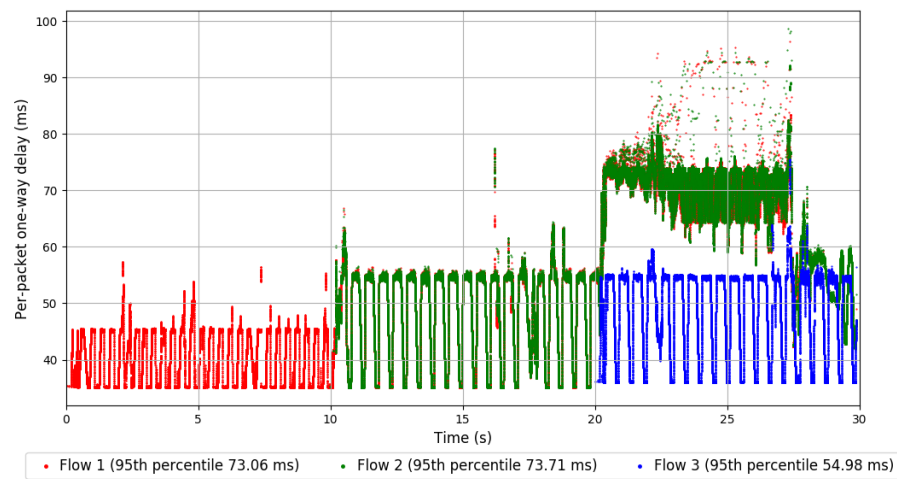
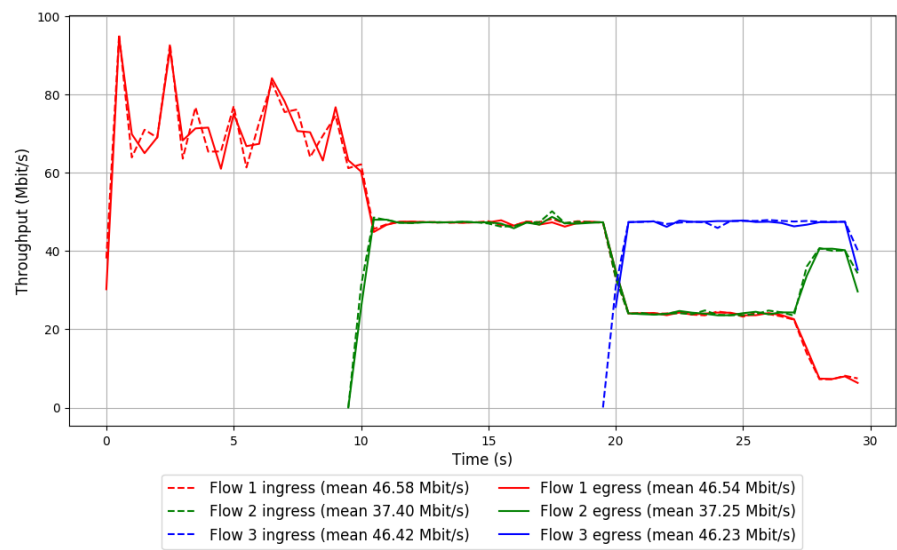
-- Flow 3:

Average throughput: 46.23 Mbit/s

95th percentile per-packet one-way delay: 54.977 ms

Loss rate: 1.30%

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



Run 8: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 02:00:17 +0000

End at: Mon, 10 Jul 2017 02:00:47 +0000

Local clock offset: 0.907 ms

Remote clock offset: -1.38 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:41:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 72.274 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 49.27 Mbit/s

95th percentile per-packet one-way delay: 72.485 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 54.762 ms

Loss rate: 0.72%

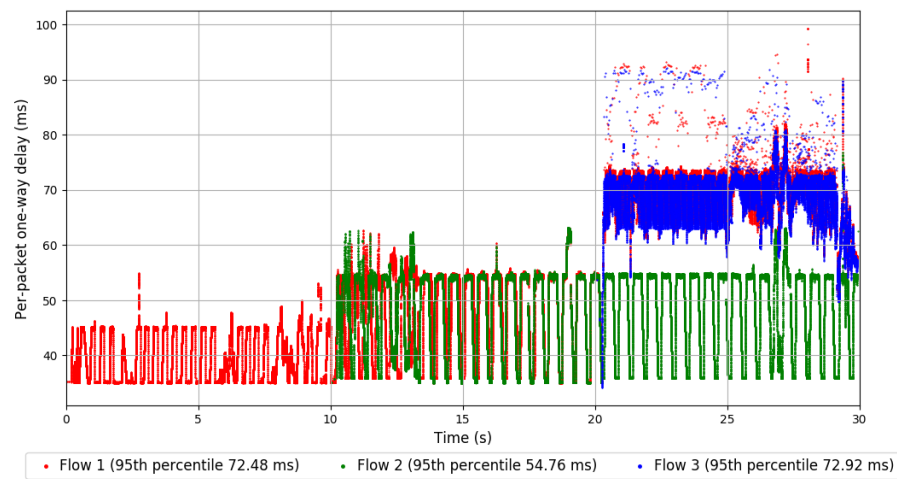
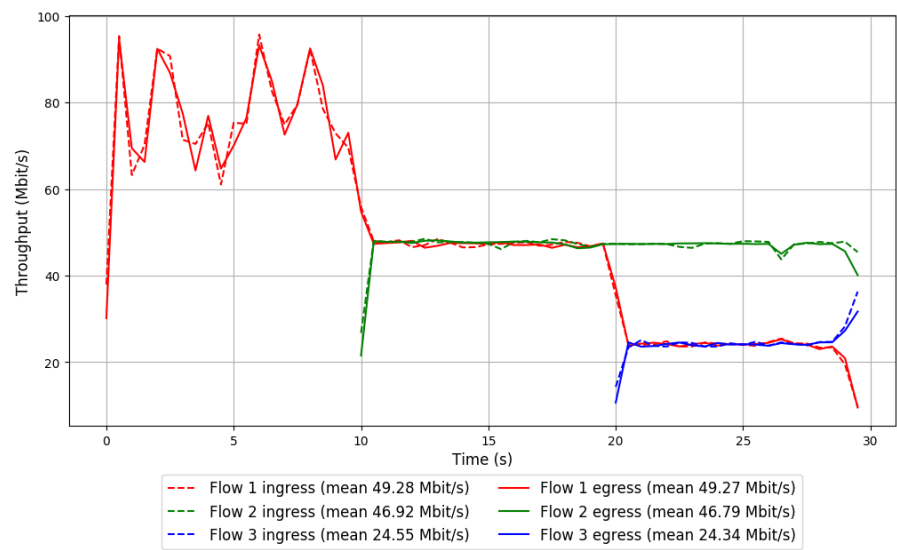
-- Flow 3:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 72.924 ms

Loss rate: 2.01%

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



Run 9: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 02:20:51 +0000

End at: Mon, 10 Jul 2017 02:21:21 +0000

Local clock offset: 0.888 ms

Remote clock offset: -1.378 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:41:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 73.069 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 72.977 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 46.74 Mbit/s

95th percentile per-packet one-way delay: 54.764 ms

Loss rate: 0.63%

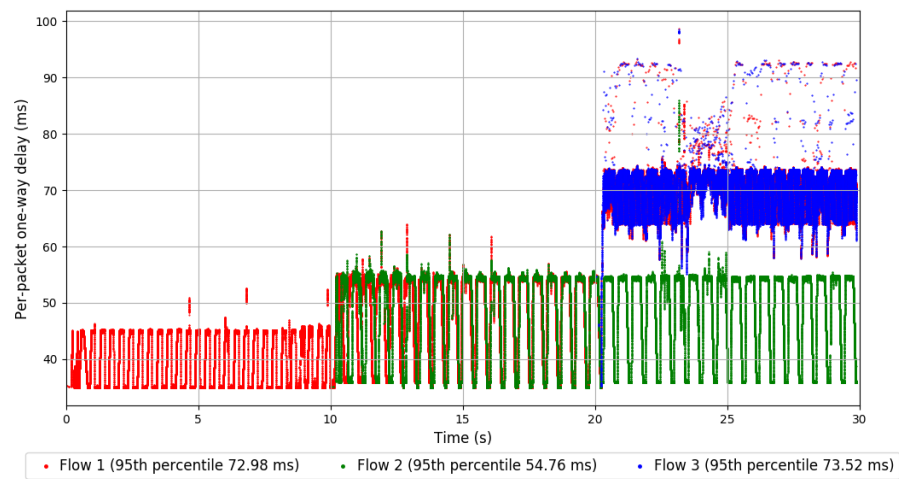
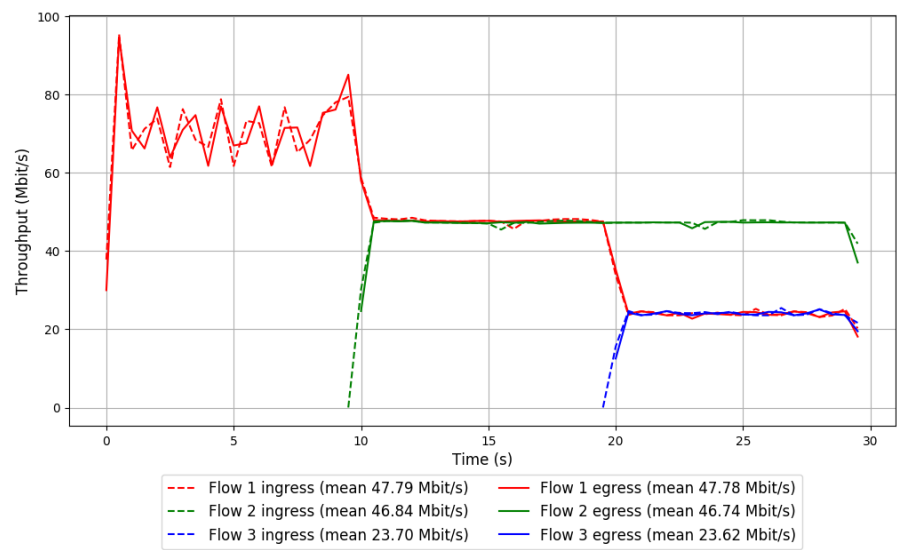
-- Flow 3:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 73.522 ms

Loss rate: 1.39%

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



Run 10: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 02:41:30 +0000

End at: Mon, 10 Jul 2017 02:42:00 +0000

Local clock offset: 0.897 ms

Remote clock offset: -3.988 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:41:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 73.065 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 72.801 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 46.89 Mbit/s

95th percentile per-packet one-way delay: 53.547 ms

Loss rate: 0.62%

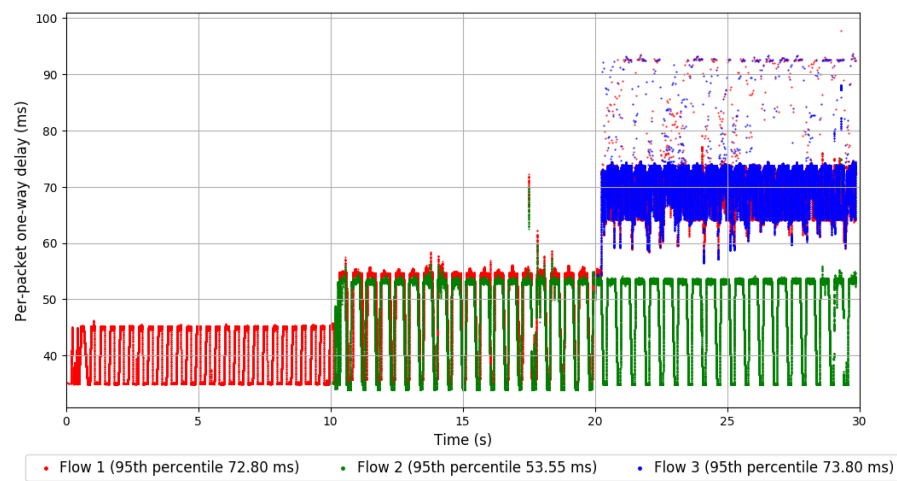
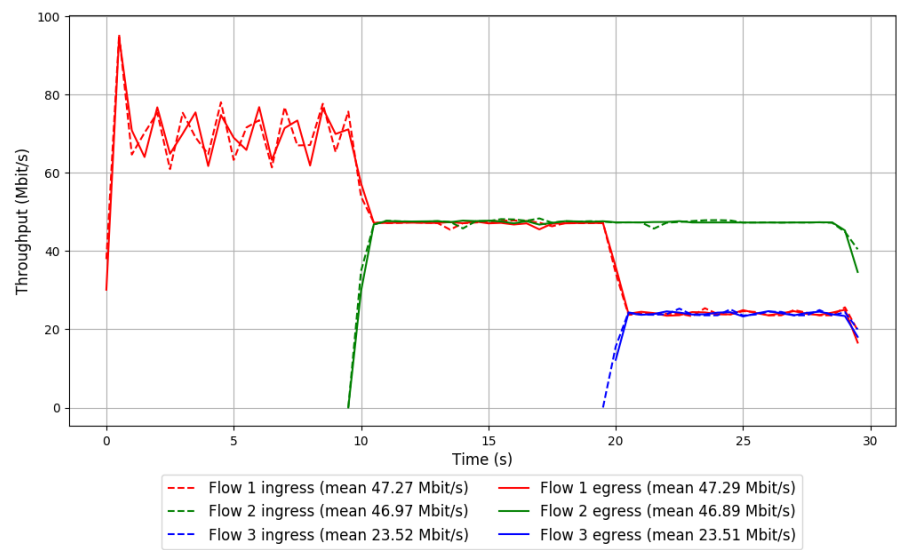
-- Flow 3:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 73.797 ms

Loss rate: 1.28%

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



Run 1: Statistics of TCP Vegas

Start at: Sun, 09 Jul 2017 23:25:14 +0000

End at: Sun, 09 Jul 2017 23:25:44 +0000

Local clock offset: 0.639 ms

Remote clock offset: -3.369 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:41:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 72.001 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 57.39 Mbit/s

95th percentile per-packet one-way delay: 70.191 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 37.678 ms

Loss rate: 0.28%

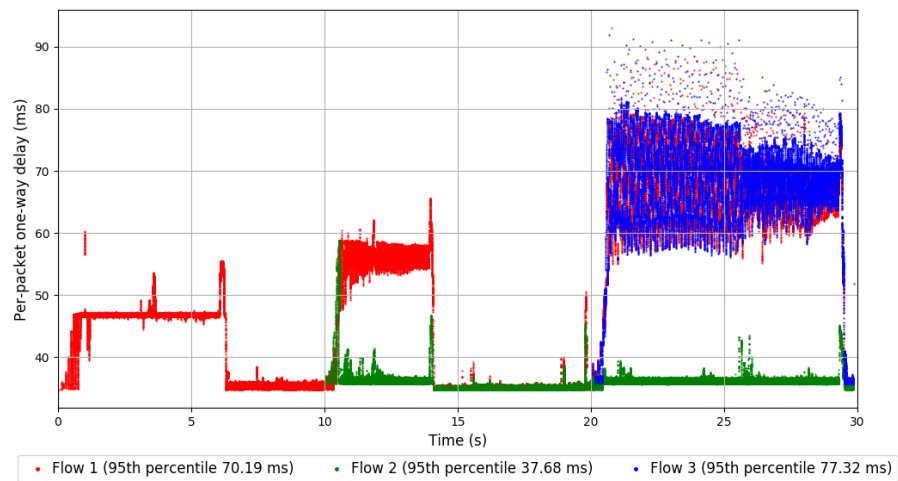
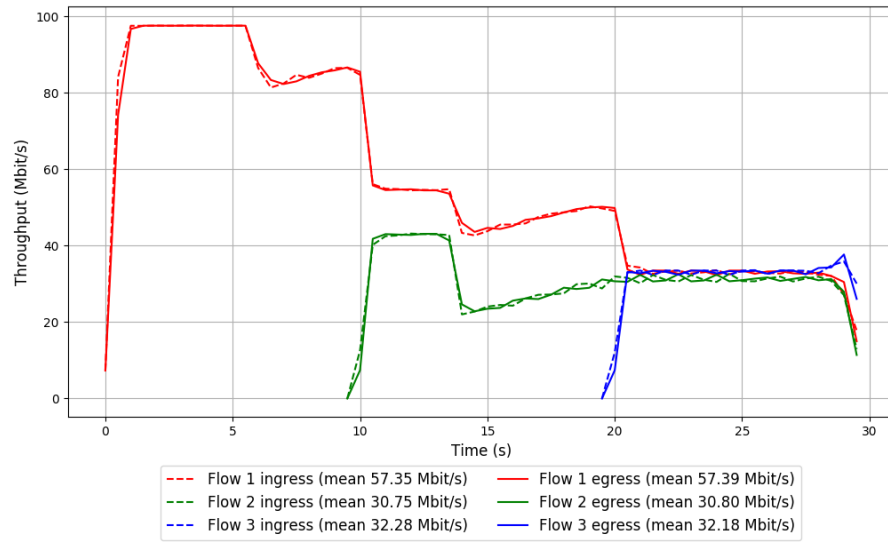
-- Flow 3:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 77.319 ms

Loss rate: 1.04%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Sun, 09 Jul 2017 23:45:42 +0000

End at: Sun, 09 Jul 2017 23:46:12 +0000

Local clock offset: 0.599 ms

Remote clock offset: -1.06 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:41:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.88 Mbit/s

95th percentile per-packet one-way delay: 63.124 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 59.097 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 39.65 Mbit/s

95th percentile per-packet one-way delay: 70.709 ms

Loss rate: 0.31%

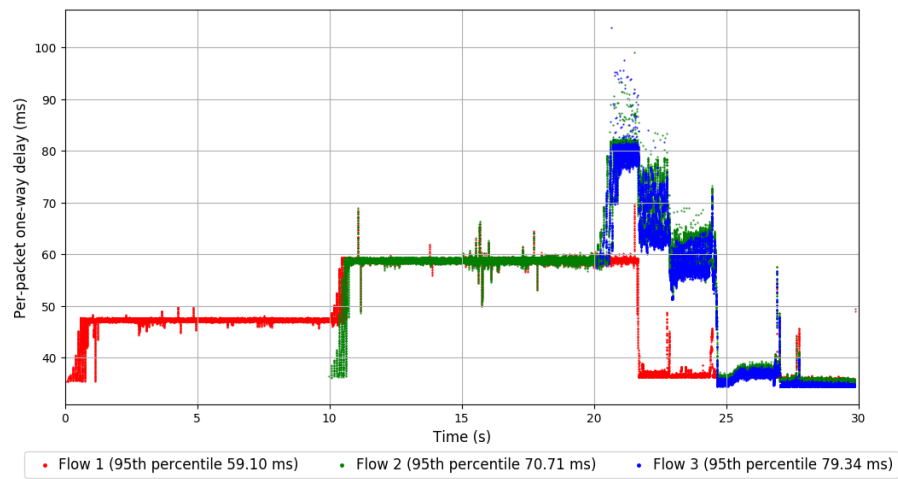
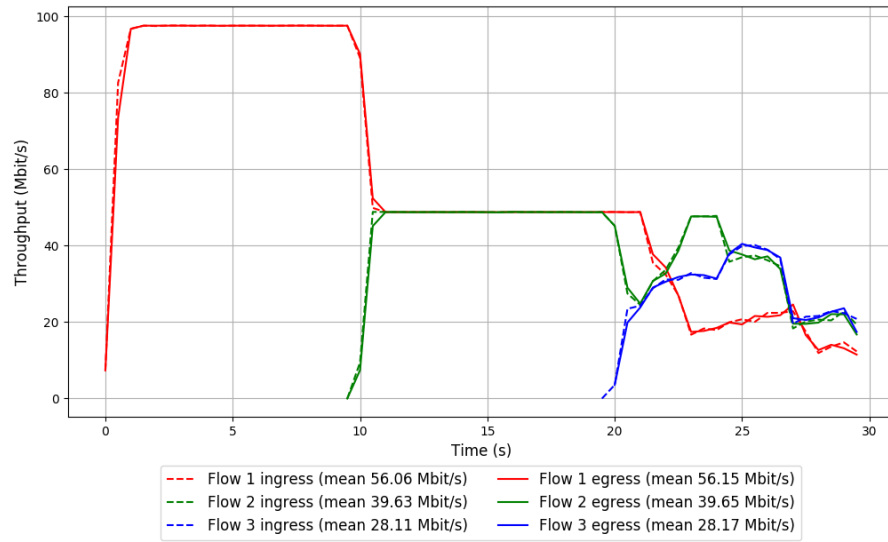
-- Flow 3:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 79.342 ms

Loss rate: 0.87%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 00:06:25 +0000

End at: Mon, 10 Jul 2017 00:06:55 +0000

Local clock offset: 0.667 ms

Remote clock offset: -1.351 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:41:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 46.786 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 46.829 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 16.70 Mbit/s

95th percentile per-packet one-way delay: 38.549 ms

Loss rate: 0.71%

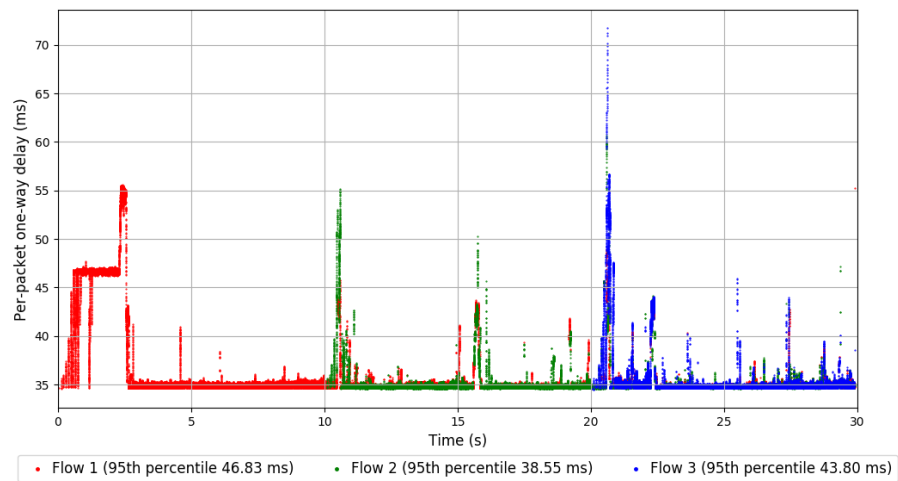
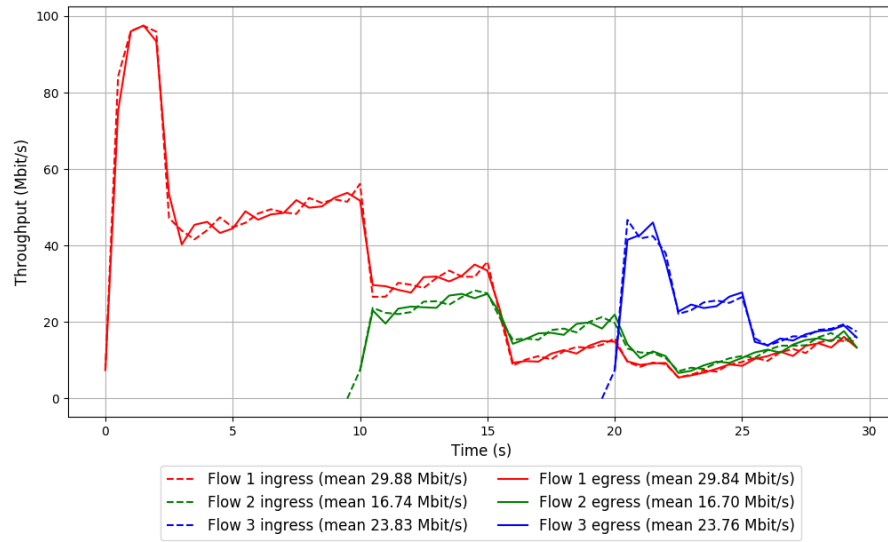
-- Flow 3:

Average throughput: 23.76 Mbit/s

95th percentile per-packet one-way delay: 43.796 ms

Loss rate: 0.93%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 00:27:30 +0000

End at: Mon, 10 Jul 2017 00:28:00 +0000

Local clock offset: 0.638 ms

Remote clock offset: -1.356 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 50.806 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 25.24 Mbit/s

95th percentile per-packet one-way delay: 47.622 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 18.59 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.37%

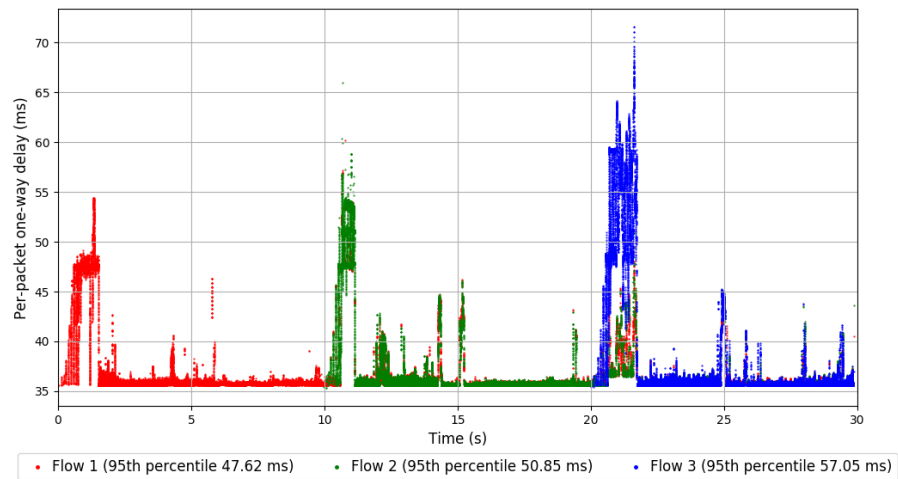
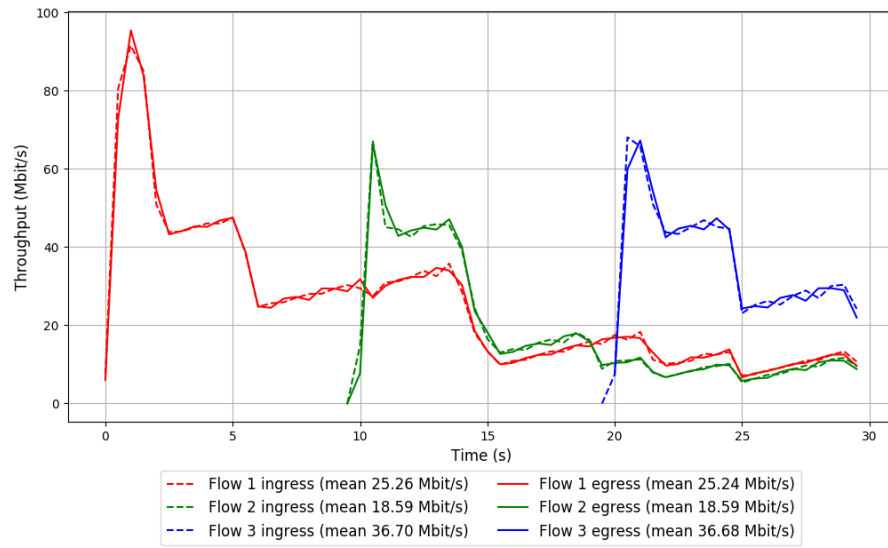
-- Flow 3:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 57.049 ms

Loss rate: 0.89%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 00:48:22 +0000

End at: Mon, 10 Jul 2017 00:48:52 +0000

Local clock offset: 0.545 ms

Remote clock offset: -1.273 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.24 Mbit/s

95th percentile per-packet one-way delay: 56.914 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 32.07 Mbit/s

95th percentile per-packet one-way delay: 47.795 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 32.12 Mbit/s

95th percentile per-packet one-way delay: 40.728 ms

Loss rate: 0.31%

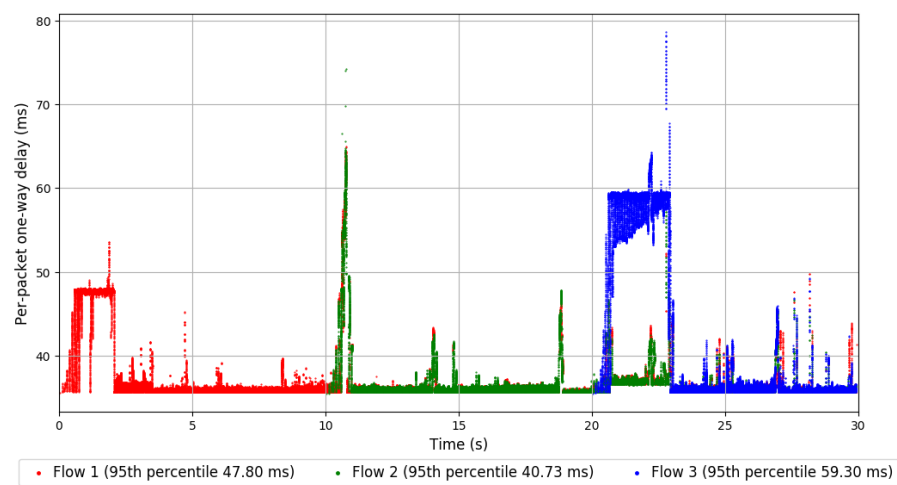
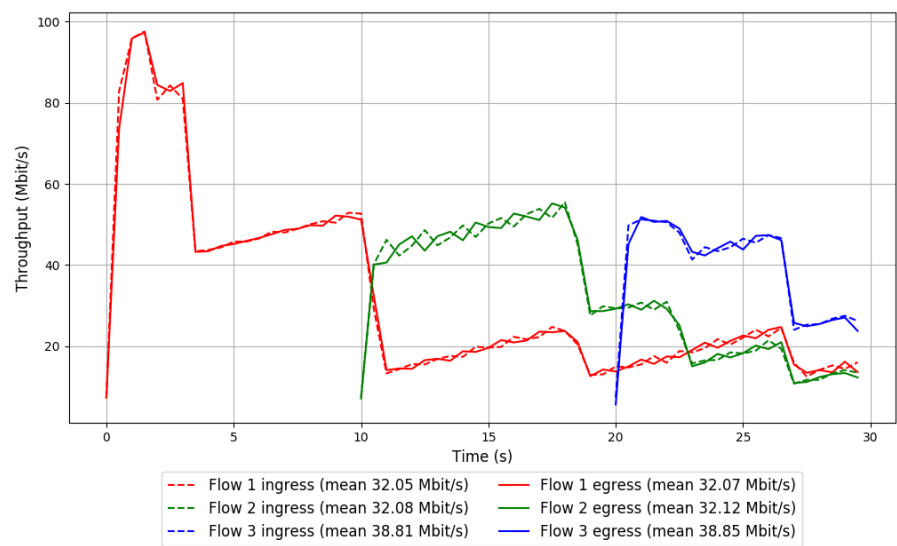
-- Flow 3:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 59.301 ms

Loss rate: 0.79%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 01:09:11 +0000

End at: Mon, 10 Jul 2017 01:09:41 +0000

Local clock offset: 0.574 ms

Remote clock offset: -0.992 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.99 Mbit/s

95th percentile per-packet one-way delay: 53.928 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 30.16 Mbit/s

95th percentile per-packet one-way delay: 44.627 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 22.06 Mbit/s

95th percentile per-packet one-way delay: 56.723 ms

Loss rate: 0.35%

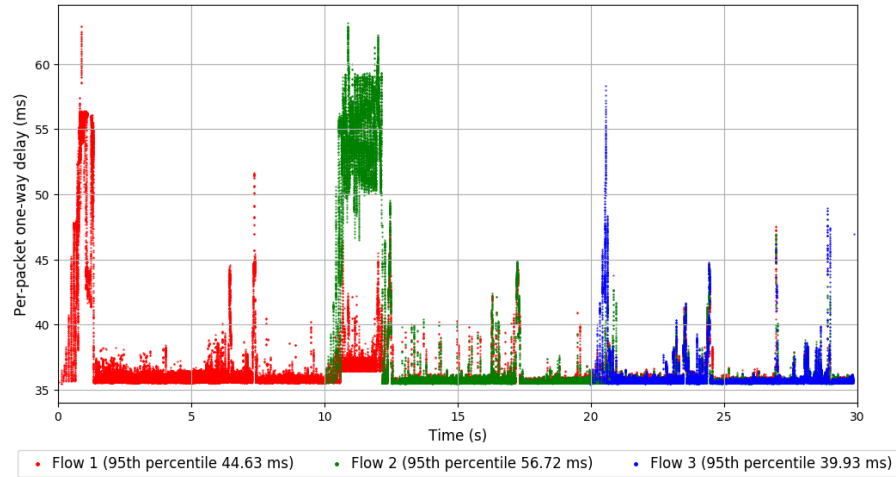
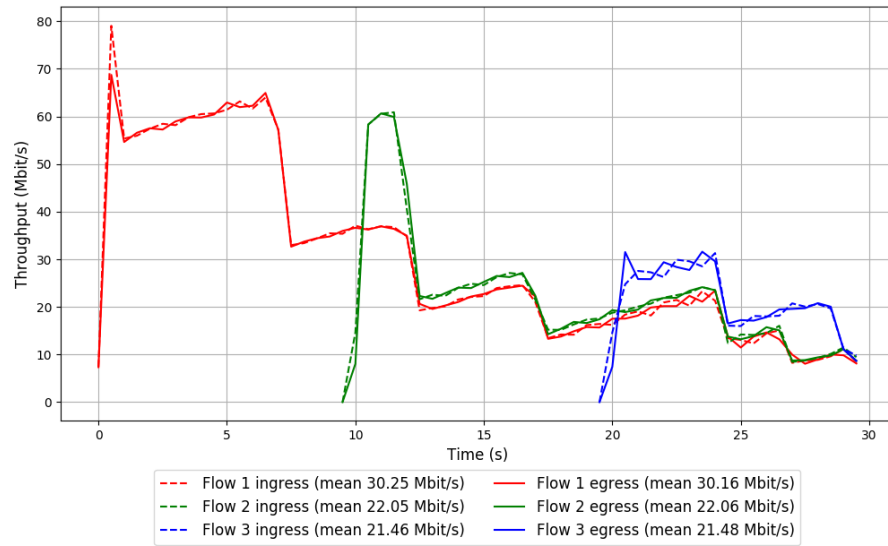
-- Flow 3:

Average throughput: 21.48 Mbit/s

95th percentile per-packet one-way delay: 39.933 ms

Loss rate: 0.64%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 01:29:56 +0000

End at: Mon, 10 Jul 2017 01:30:26 +0000

Local clock offset: 0.776 ms

Remote clock offset: -3.708 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.02 Mbit/s

95th percentile per-packet one-way delay: 44.881 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 47.219 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 43.069 ms

Loss rate: 0.35%

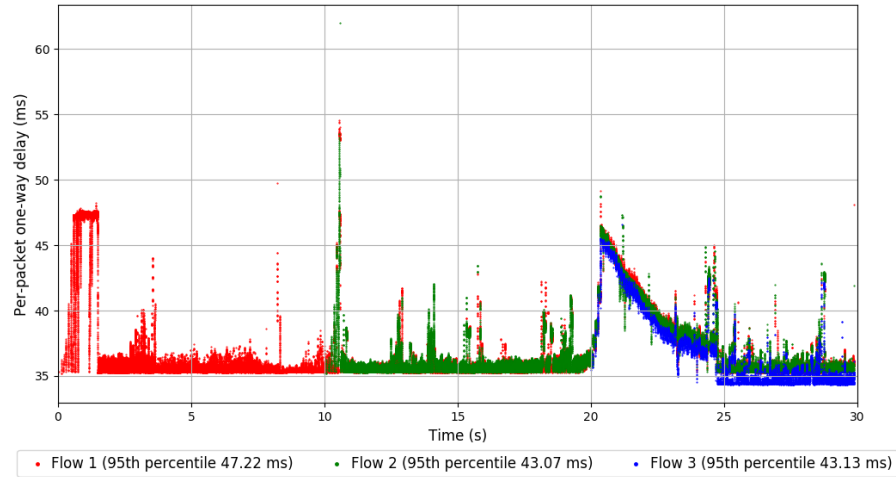
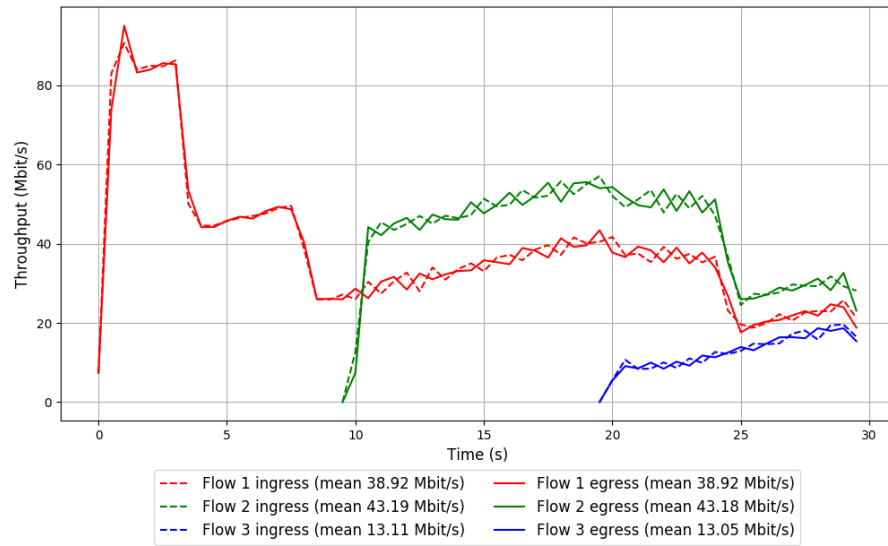
-- Flow 3:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 43.132 ms

Loss rate: 1.33%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 01:50:40 +0000

End at: Mon, 10 Jul 2017 01:51:10 +0000

Local clock offset: 0.779 ms

Remote clock offset: -1.646 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 47.645 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 34.30 Mbit/s

95th percentile per-packet one-way delay: 47.508 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 26.69 Mbit/s

95th percentile per-packet one-way delay: 38.647 ms

Loss rate: 0.43%

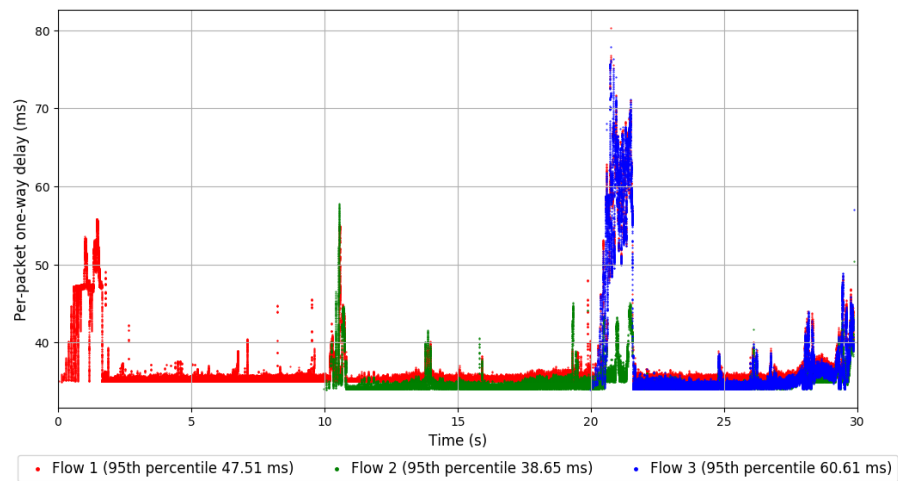
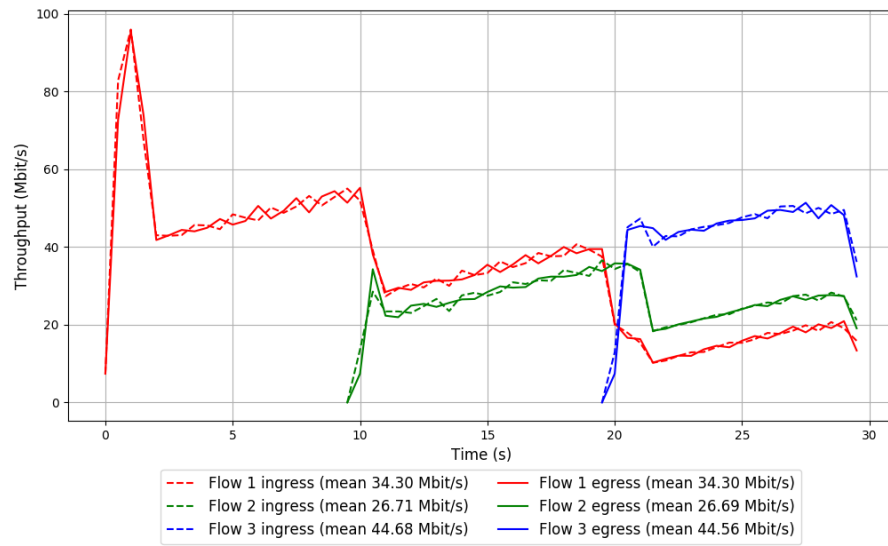
-- Flow 3:

Average throughput: 44.56 Mbit/s

95th percentile per-packet one-way delay: 60.610 ms

Loss rate: 0.93%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 02:11:19 +0000

End at: Mon, 10 Jul 2017 02:11:49 +0000

Local clock offset: 0.936 ms

Remote clock offset: -3.84 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 65.905 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 42.33 Mbit/s

95th percentile per-packet one-way delay: 47.046 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 65.212 ms

Loss rate: 0.32%

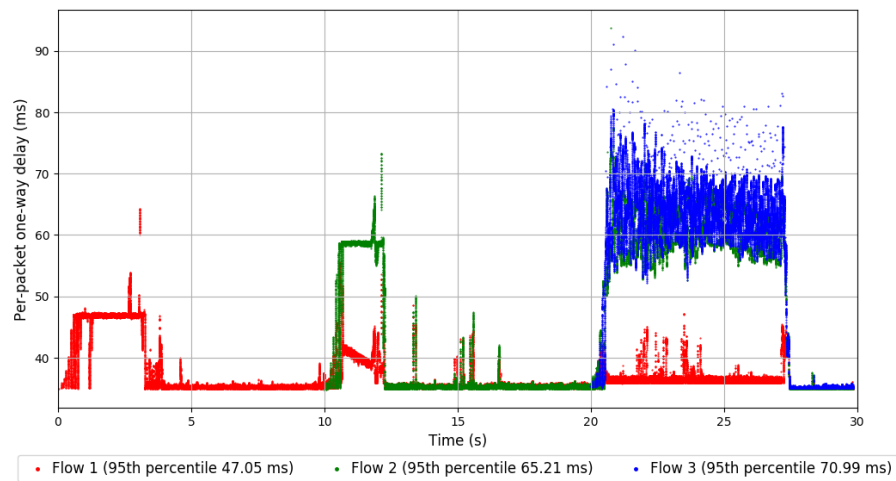
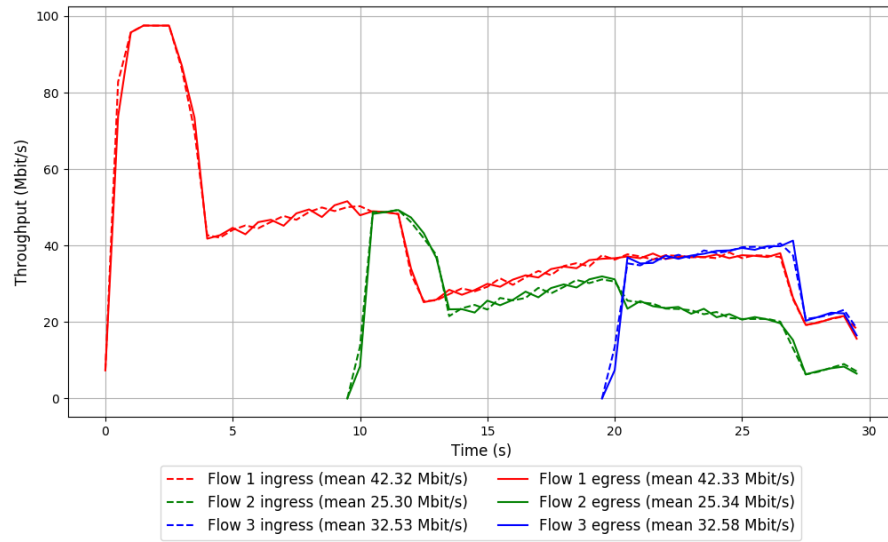
-- Flow 3:

Average throughput: 32.58 Mbit/s

95th percentile per-packet one-way delay: 70.986 ms

Loss rate: 0.70%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 02:31:54 +0000

End at: Mon, 10 Jul 2017 02:32:24 +0000

Local clock offset: 0.828 ms

Remote clock offset: -1.822 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 55.344 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 42.25 Mbit/s

95th percentile per-packet one-way delay: 54.604 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 55.337 ms

Loss rate: 0.41%

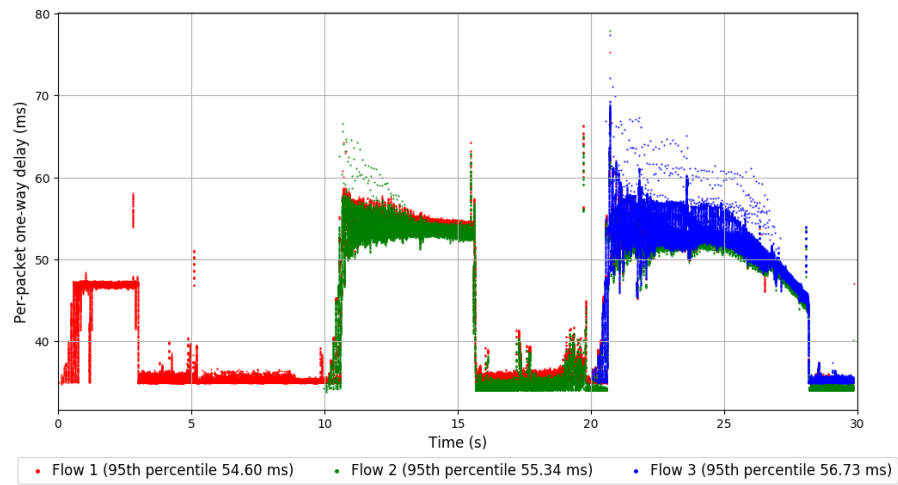
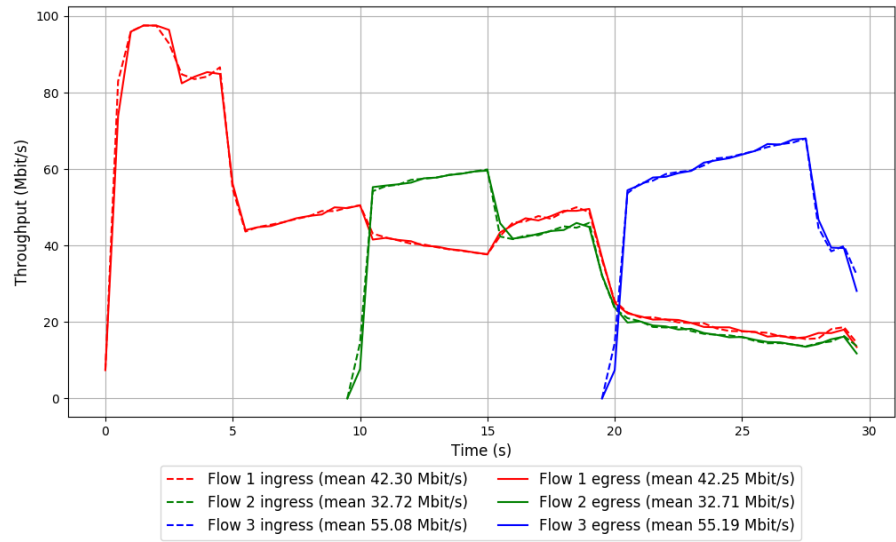
-- Flow 3:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 56.733 ms

Loss rate: 0.67%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Sun, 09 Jul 2017 23:32:09 +0000

End at: Sun, 09 Jul 2017 23:32:39 +0000

Local clock offset: 0.584 ms

Remote clock offset: -3.531 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 70.256 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 46.24 Mbit/s

95th percentile per-packet one-way delay: 69.520 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.43 Mbit/s

95th percentile per-packet one-way delay: 70.328 ms

Loss rate: 0.71%

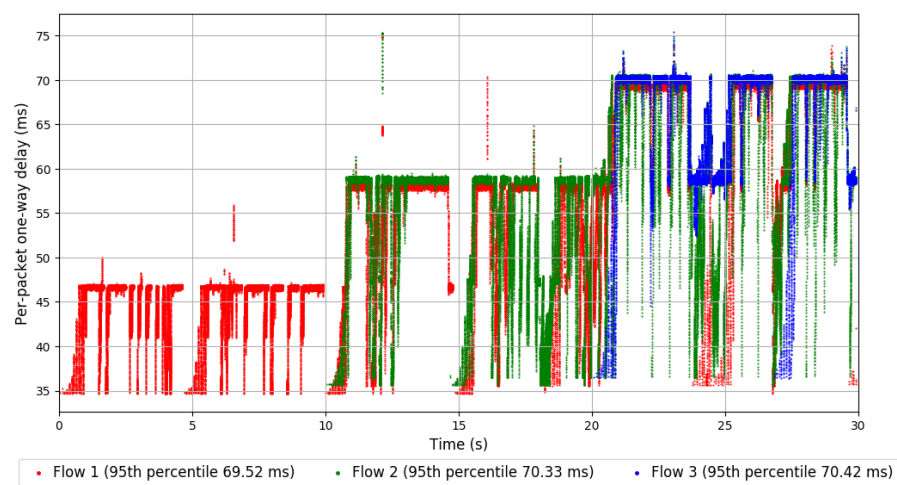
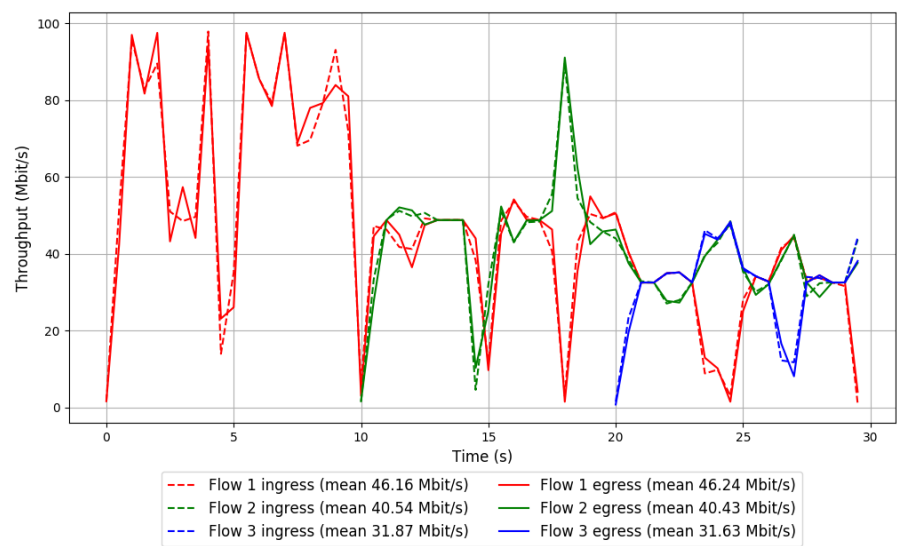
-- Flow 3:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 70.420 ms

Loss rate: 1.68%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Sun, 09 Jul 2017 23:52:36 +0000

End at: Sun, 09 Jul 2017 23:53:06 +0000

Local clock offset: 0.582 ms

Remote clock offset: -3.571 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 70.436 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 70.269 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 70.285 ms

Loss rate: 0.43%

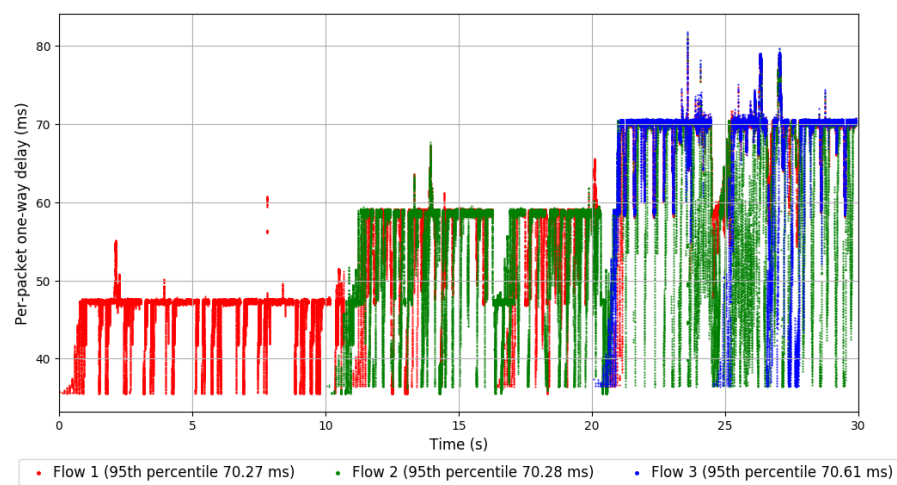
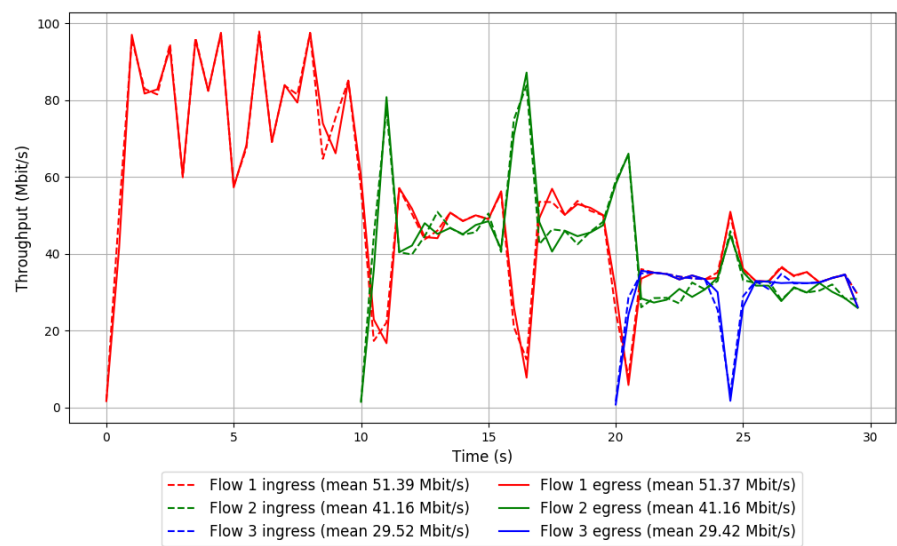
-- Flow 3:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 70.607 ms

Loss rate: 1.39%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Mon, 10 Jul 2017 00:13:16 +0000

End at: Mon, 10 Jul 2017 00:13:46 +0000

Local clock offset: 0.673 ms

Remote clock offset: -1.465 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 70.160 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 57.33 Mbit/s

95th percentile per-packet one-way delay: 70.339 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 69.454 ms

Loss rate: 0.91%

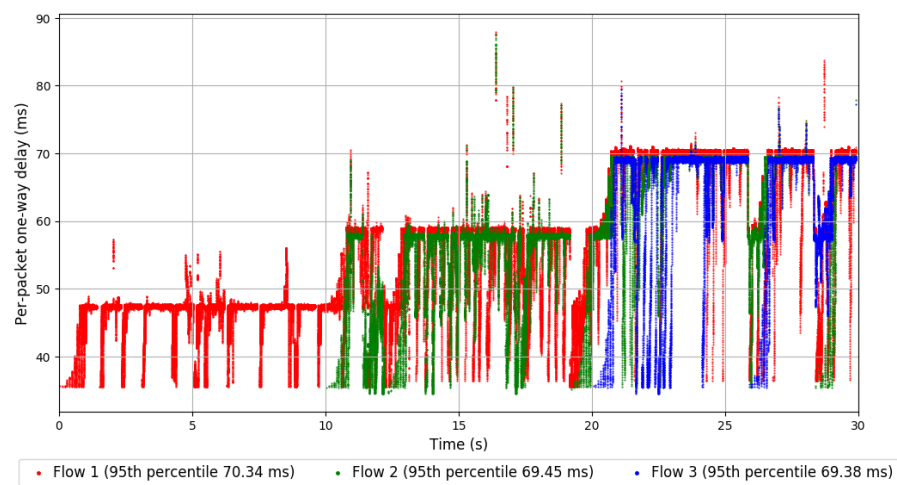
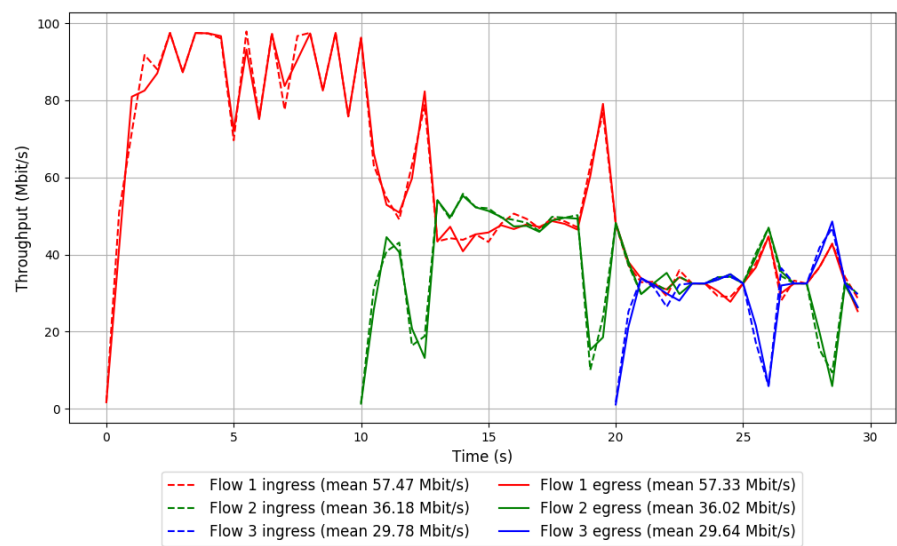
-- Flow 3:

Average throughput: 29.64 Mbit/s

95th percentile per-packet one-way delay: 69.380 ms

Loss rate: 1.34%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Mon, 10 Jul 2017 00:34:22 +0000

End at: Mon, 10 Jul 2017 00:34:52 +0000

Local clock offset: 0.622 ms

Remote clock offset: -3.528 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:42:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.41 Mbit/s

95th percentile per-packet one-way delay: 70.478 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 48.95 Mbit/s

95th percentile per-packet one-way delay: 70.472 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 41.78 Mbit/s

95th percentile per-packet one-way delay: 70.473 ms

Loss rate: 0.81%

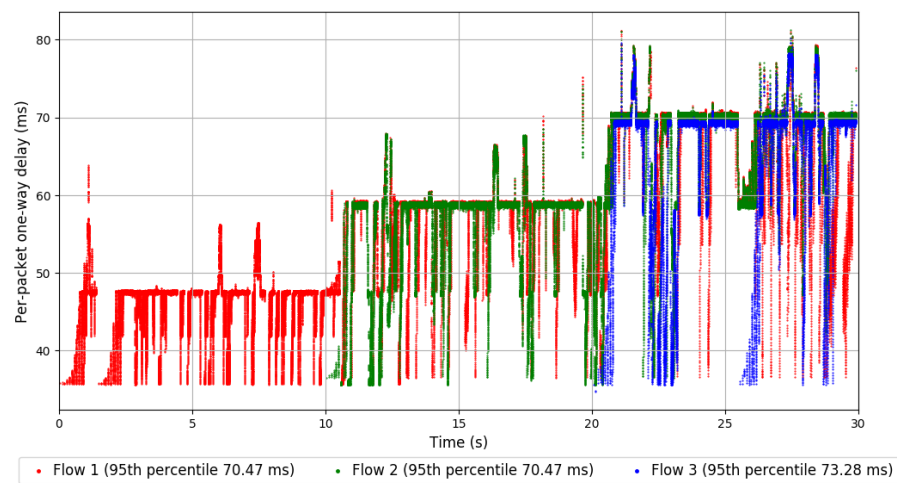
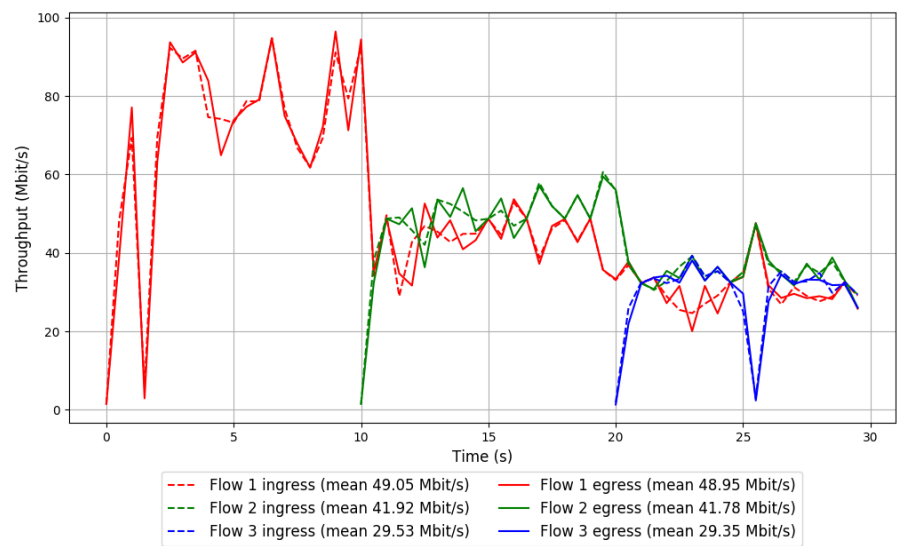
-- Flow 3:

Average throughput: 29.35 Mbit/s

95th percentile per-packet one-way delay: 73.276 ms

Loss rate: 1.60%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Mon, 10 Jul 2017 00:55:15 +0000

End at: Mon, 10 Jul 2017 00:55:45 +0000

Local clock offset: 0.534 ms

Remote clock offset: -0.954 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 80.478 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 53.55 Mbit/s

95th percentile per-packet one-way delay: 80.225 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 35.28 Mbit/s

95th percentile per-packet one-way delay: 80.714 ms

Loss rate: 0.60%

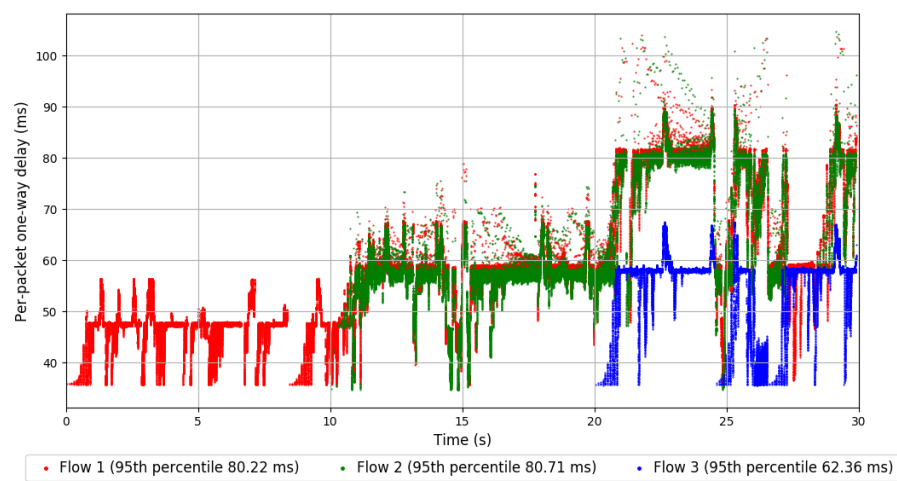
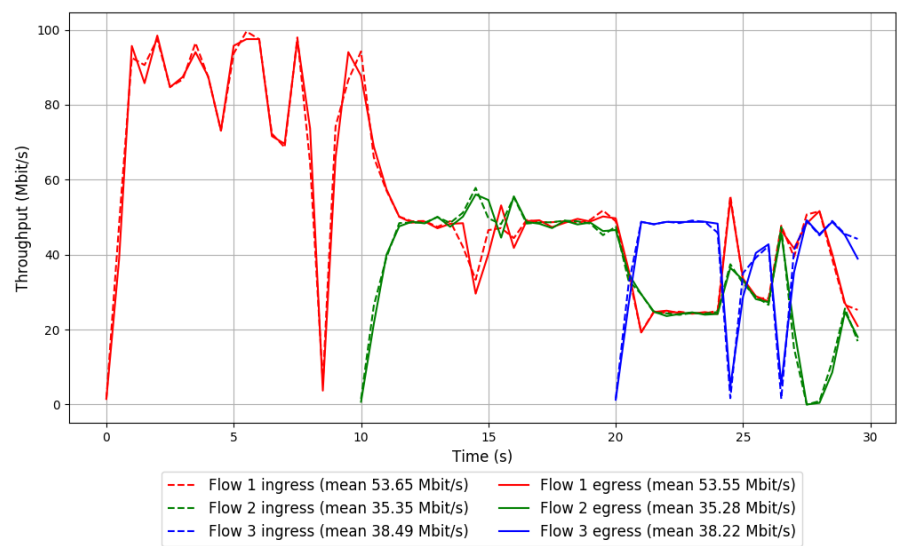
-- Flow 3:

Average throughput: 38.22 Mbit/s

95th percentile per-packet one-way delay: 62.362 ms

Loss rate: 1.58%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: Mon, 10 Jul 2017 01:16:03 +0000

End at: Mon, 10 Jul 2017 01:16:33 +0000

Local clock offset: 0.685 ms

Remote clock offset: -3.589 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 80.618 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 46.48 Mbit/s

95th percentile per-packet one-way delay: 80.362 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 46.49 Mbit/s

95th percentile per-packet one-way delay: 59.229 ms

Loss rate: 0.76%

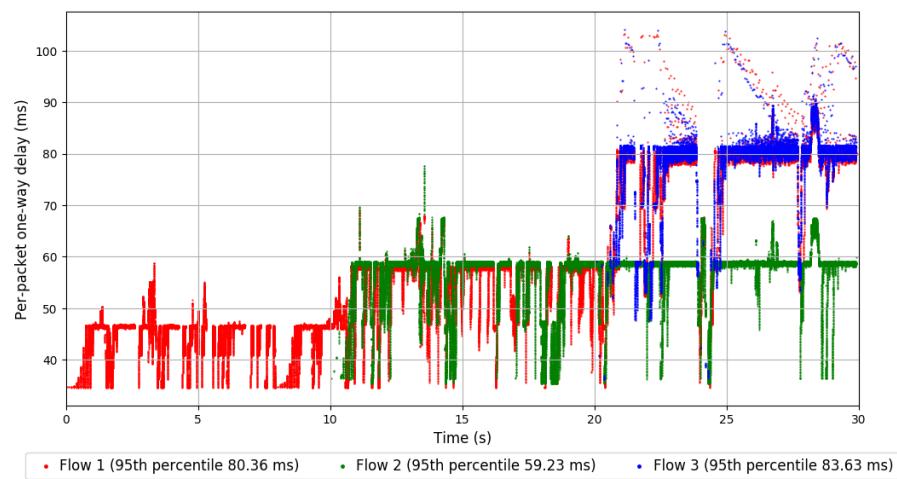
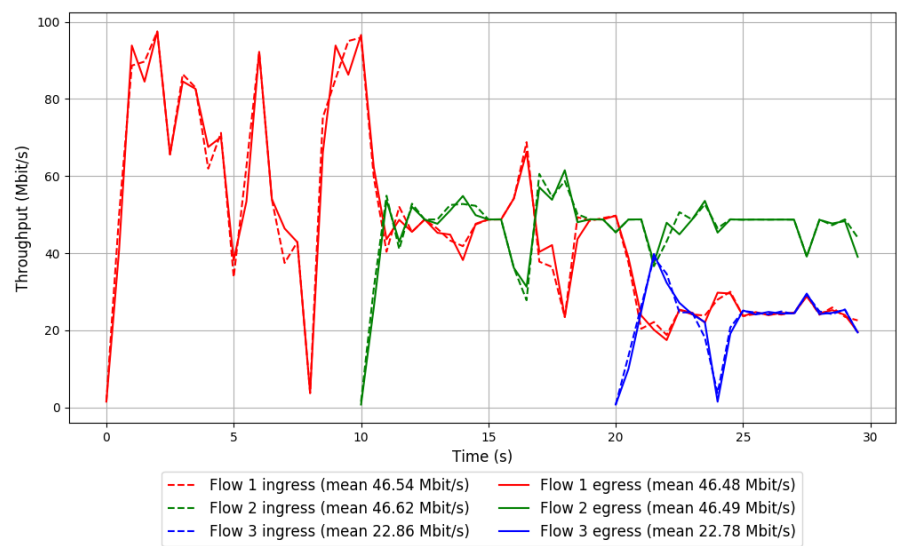
-- Flow 3:

Average throughput: 22.78 Mbit/s

95th percentile per-packet one-way delay: 83.628 ms

Loss rate: 0.89%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Mon, 10 Jul 2017 01:36:50 +0000

End at: Mon, 10 Jul 2017 01:37:20 +0000

Local clock offset: 0.696 ms

Remote clock offset: -3.719 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.22 Mbit/s

95th percentile per-packet one-way delay: 79.401 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 47.85 Mbit/s

95th percentile per-packet one-way delay: 78.821 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 80.948 ms

Loss rate: 0.50%

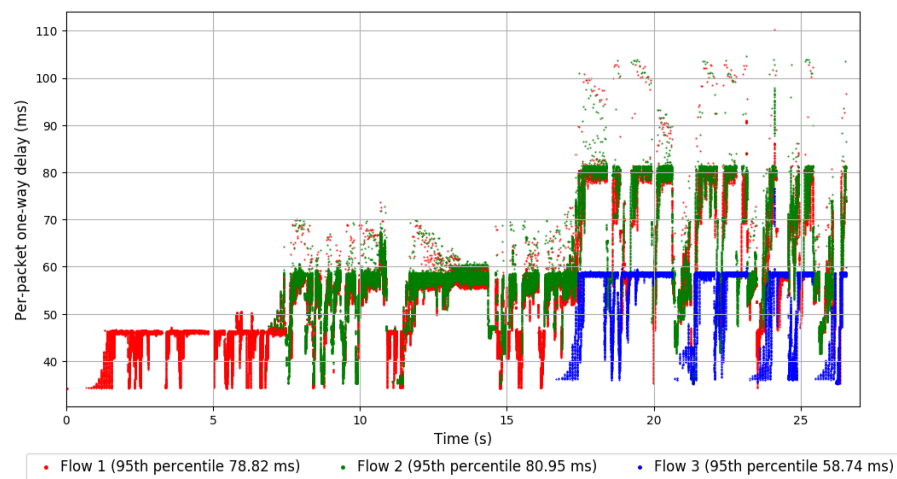
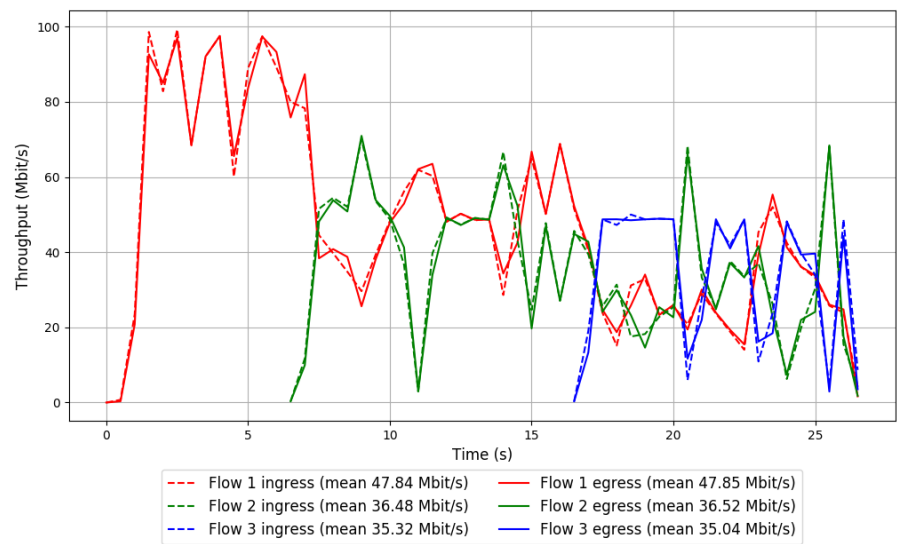
-- Flow 3:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 58.737 ms

Loss rate: 1.66%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Mon, 10 Jul 2017 01:57:34 +0000

End at: Mon, 10 Jul 2017 01:58:04 +0000

Local clock offset: 0.817 ms

Remote clock offset: -1.798 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 79.296 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 57.47 Mbit/s

95th percentile per-packet one-way delay: 77.895 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 26.19 Mbit/s

95th percentile per-packet one-way delay: 79.905 ms

Loss rate: 1.02%

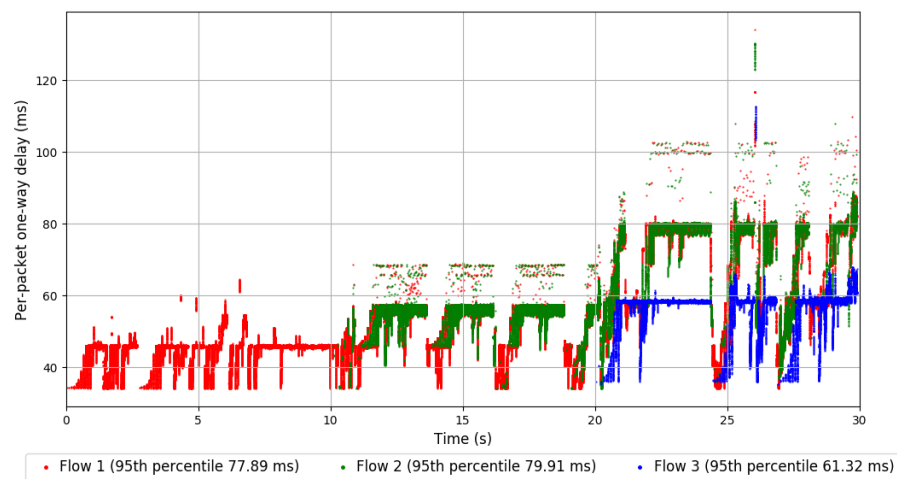
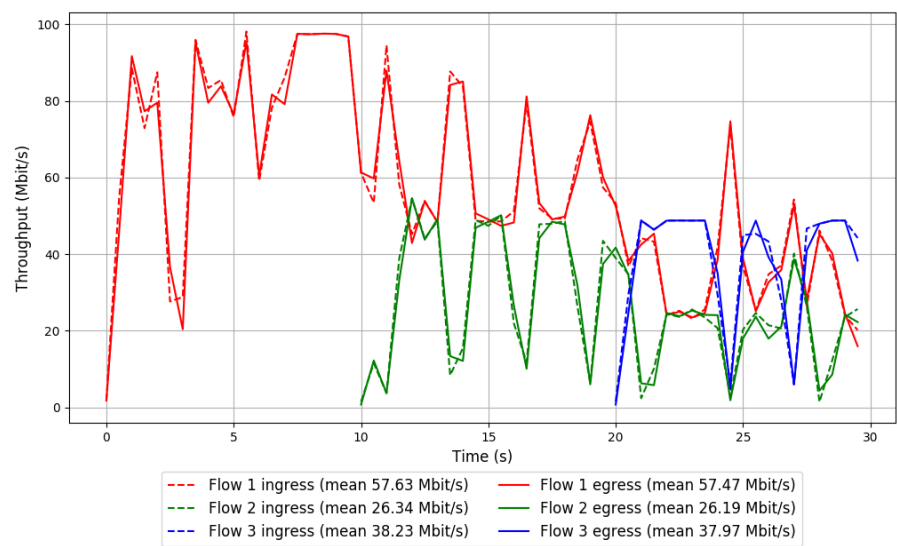
-- Flow 3:

Average throughput: 37.97 Mbit/s

95th percentile per-packet one-way delay: 61.318 ms

Loss rate: 1.61%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: Mon, 10 Jul 2017 02:18:09 +0000

End at: Mon, 10 Jul 2017 02:18:39 +0000

Local clock offset: 0.87 ms

Remote clock offset: -1.226 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 79.754 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 54.74 Mbit/s

95th percentile per-packet one-way delay: 57.486 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 79.837 ms

Loss rate: 0.70%

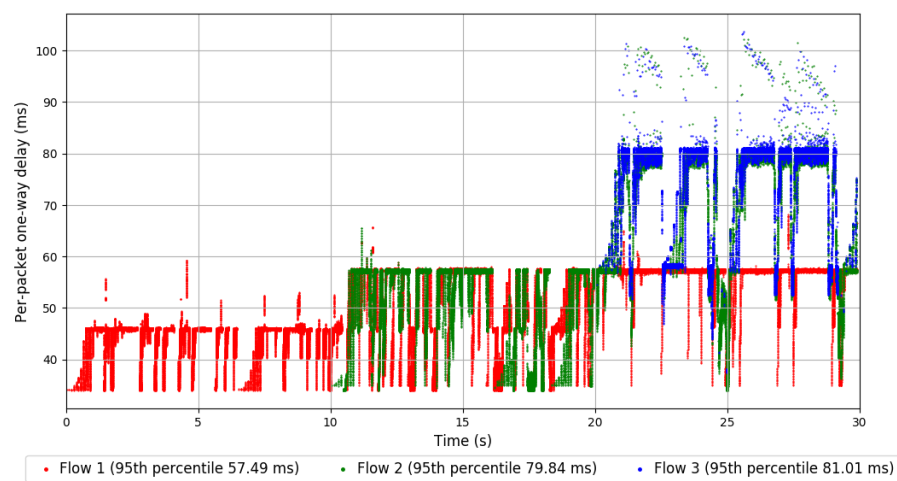
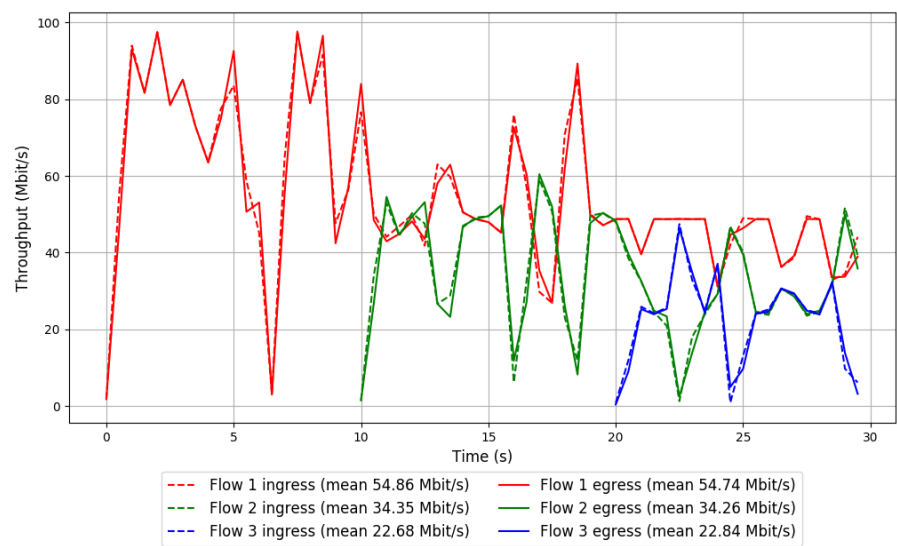
-- Flow 3:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 81.010 ms

Loss rate: 0.70%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Mon, 10 Jul 2017 02:38:47 +0000

End at: Mon, 10 Jul 2017 02:39:17 +0000

Local clock offset: 0.913 ms

Remote clock offset: -1.28 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 69.861 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 49.03 Mbit/s

95th percentile per-packet one-way delay: 69.540 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 69.876 ms

Loss rate: 0.70%

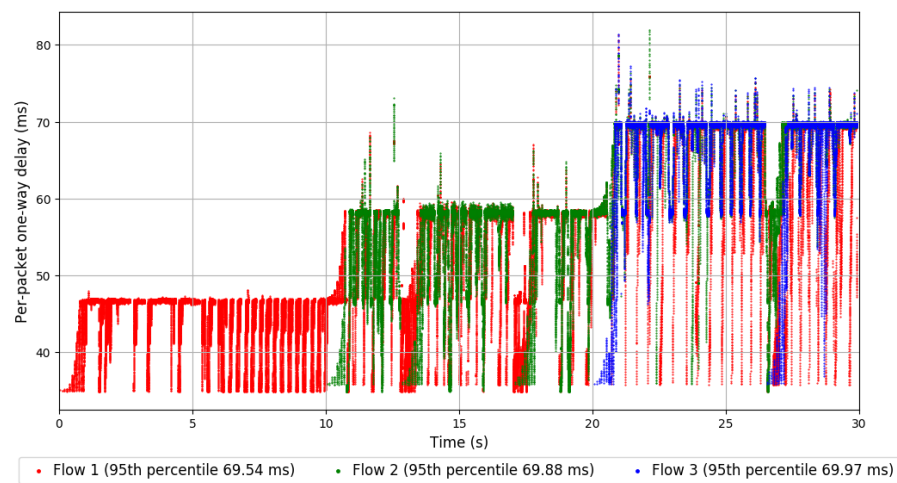
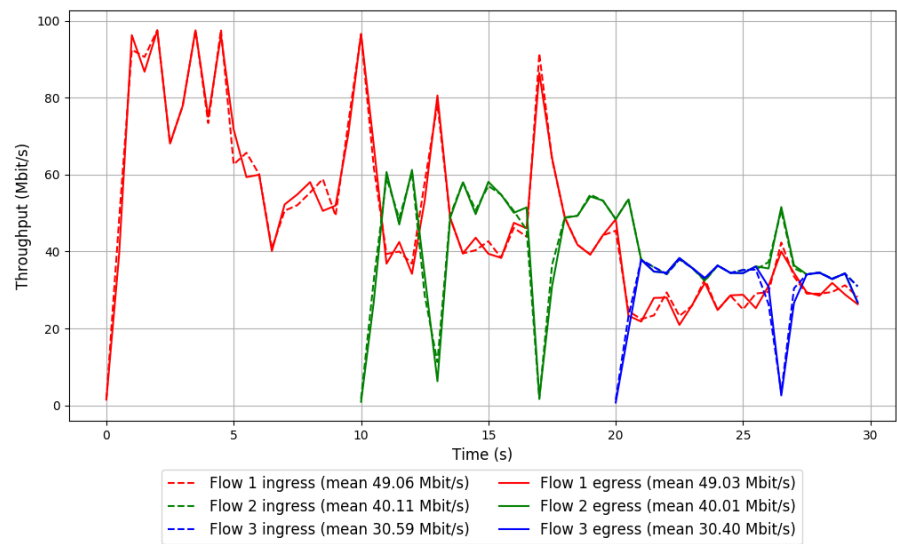
-- Flow 3:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 69.970 ms

Loss rate: 1.49%

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Sun, 09 Jul 2017 23:37:35 +0000

End at: Sun, 09 Jul 2017 23:38:05 +0000

Local clock offset: 0.569 ms

Remote clock offset: -1.138 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 36.326 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 2.15 Mbit/s

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

Loss rate: 0.30%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 36.841 ms

Loss rate: 0.52%

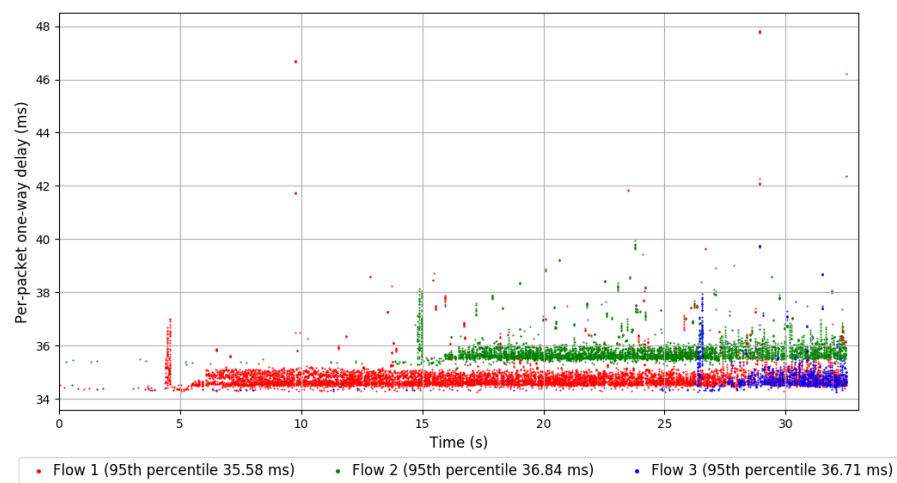
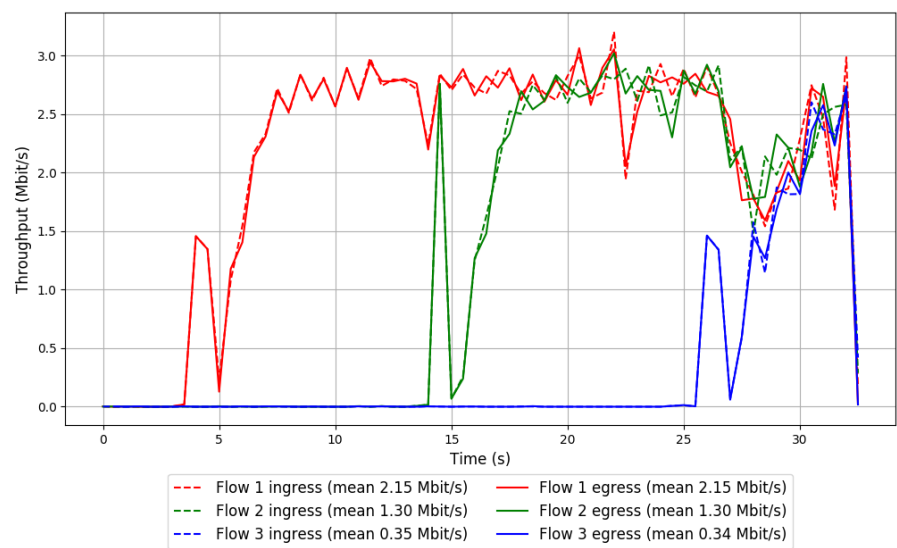
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 36.714 ms

Loss rate: 2.07%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Sun, 09 Jul 2017 23:58:14 +0000

End at: Sun, 09 Jul 2017 23:58:44 +0000

Local clock offset: 0.729 ms

Remote clock offset: -1.009 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 36.474 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 35.746 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 36.932 ms

Loss rate: 0.75%

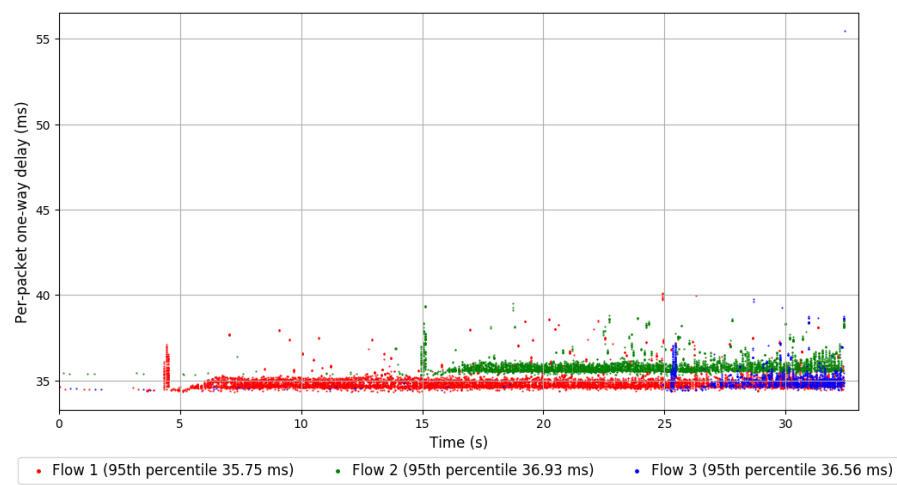
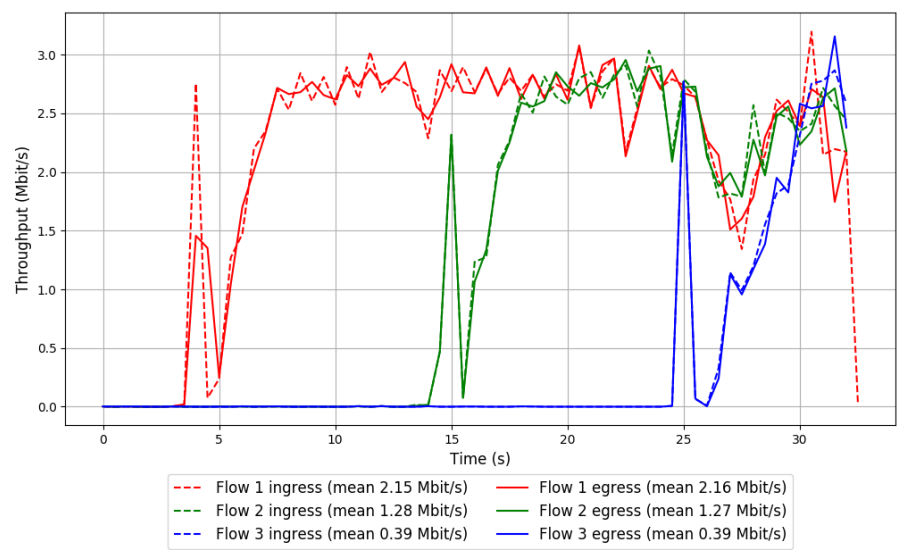
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 36.564 ms

Loss rate: 1.36%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 00:19:07 +0000

End at: Mon, 10 Jul 2017 00:19:37 +0000

Local clock offset: 0.651 ms

Remote clock offset: -1.356 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 36.768 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 36.460 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 36.658 ms

Loss rate: 0.32%

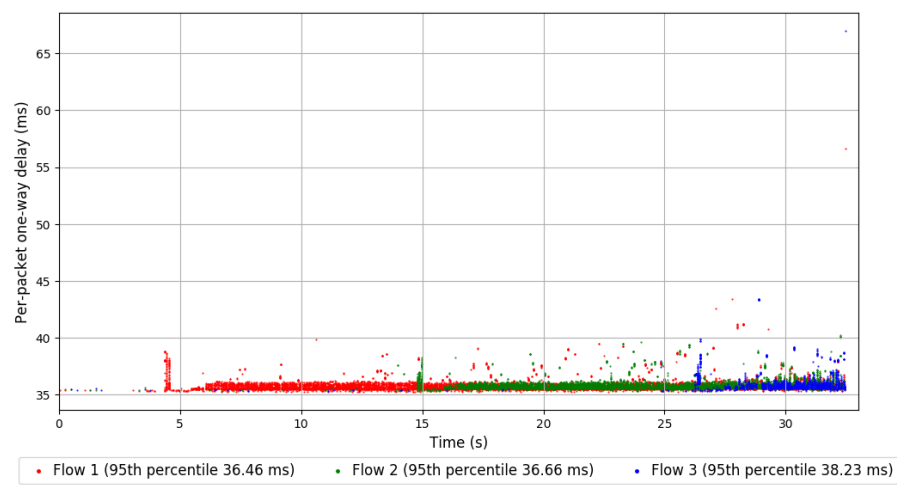
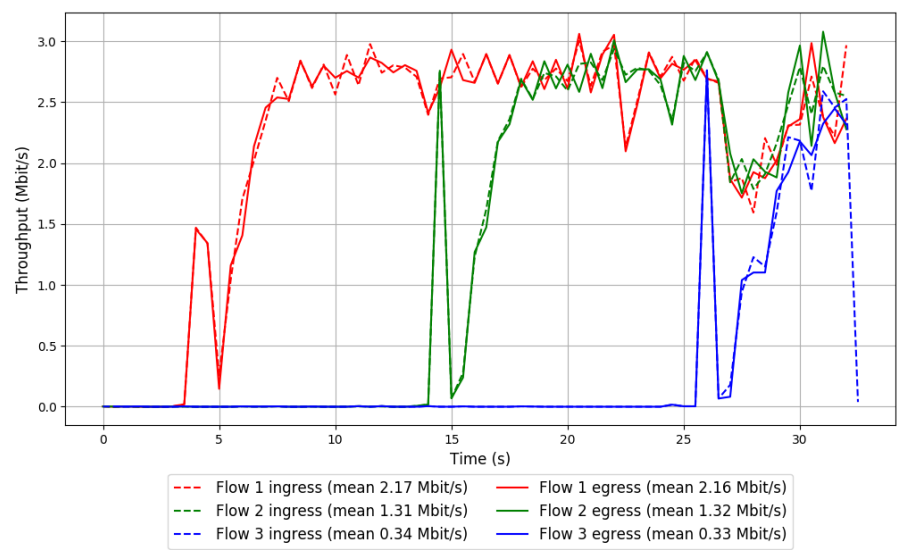
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 38.227 ms

Loss rate: 2.40%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 00:40:07 +0000

End at: Mon, 10 Jul 2017 00:40:37 +0000

Local clock offset: 0.638 ms

Remote clock offset: -1.362 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 36.870 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 36.048 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.29 Mbit/s

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

Loss rate: 0.75%

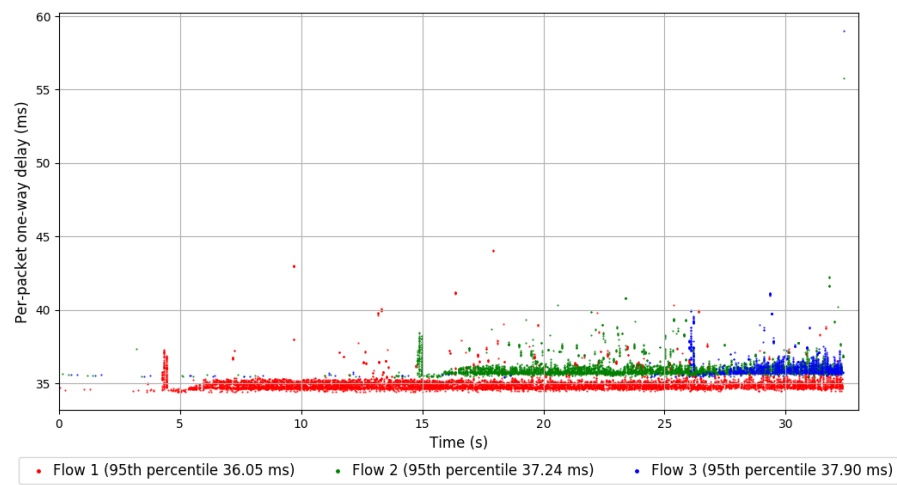
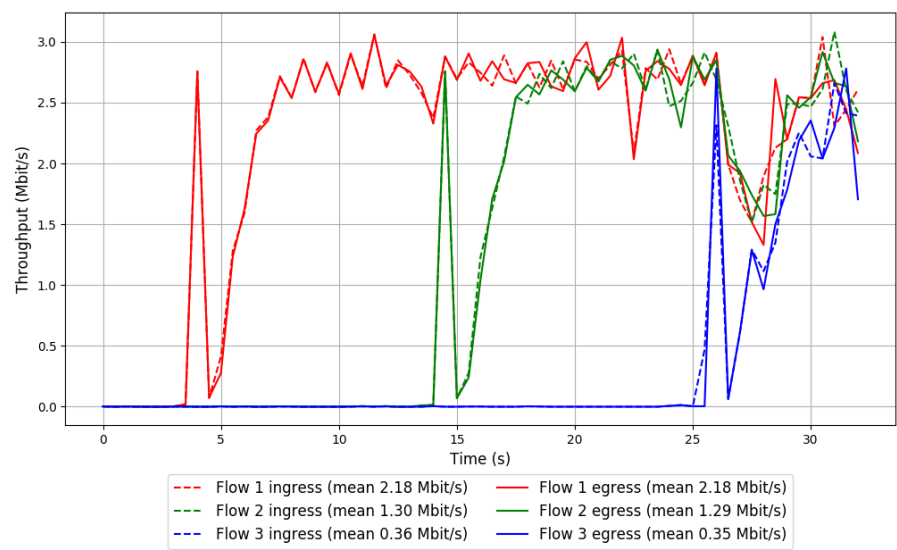
-- Flow 3:

Average throughput: 0.35 Mbit/s

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

Loss rate: 2.98%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 01:00:55 +0000

End at: Mon, 10 Jul 2017 01:01:25 +0000

Local clock offset: 0.647 ms

Remote clock offset: -1.425 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 37.169 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 36.961 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 37.033 ms

Loss rate: 0.96%

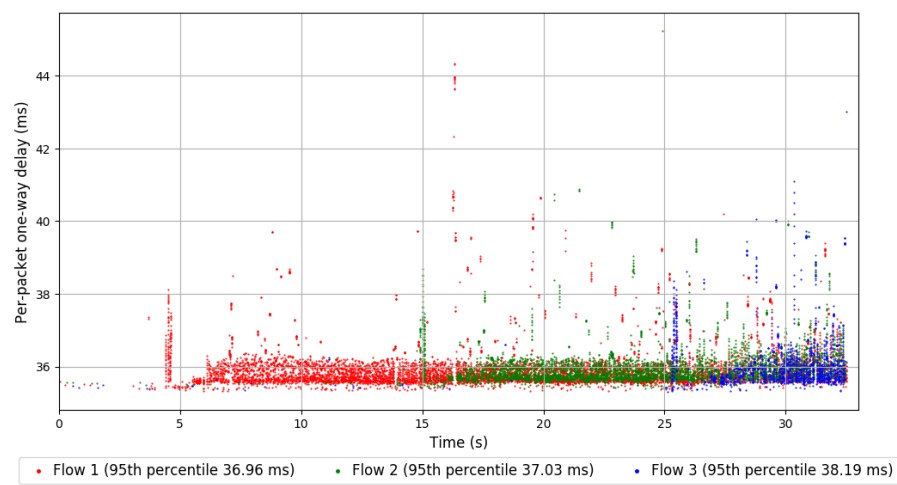
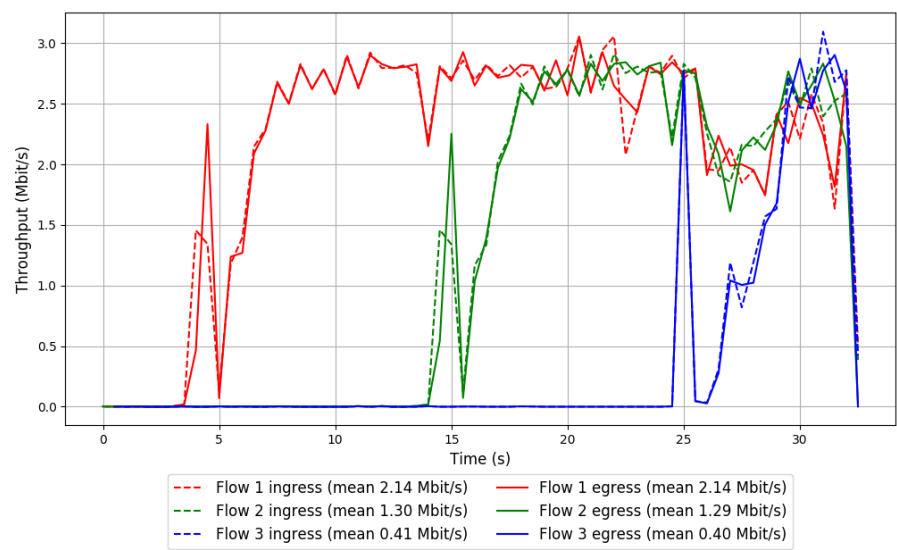
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 38.192 ms

Loss rate: 2.64%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 01:21:44 +0000

End at: Mon, 10 Jul 2017 01:22:14 +0000

Local clock offset: 0.631 ms

Remote clock offset: -3.689 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 36.678 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 2.15 Mbit/s

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

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 36.872 ms

Loss rate: 0.49%

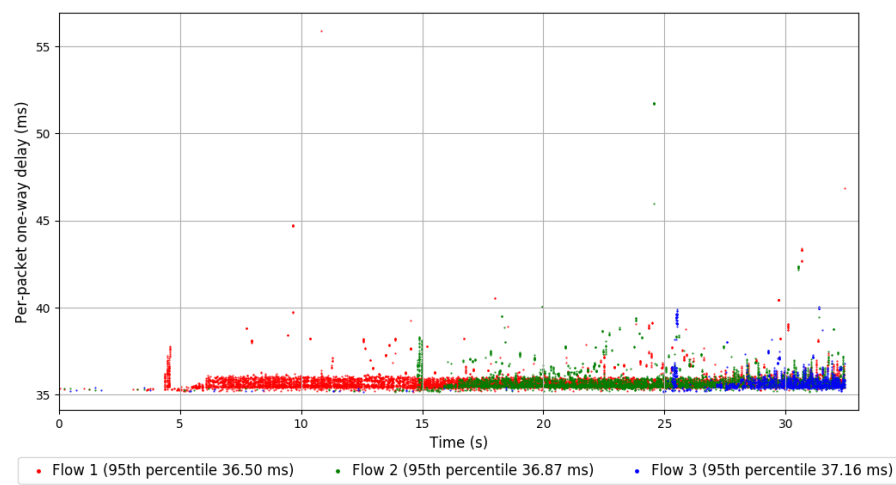
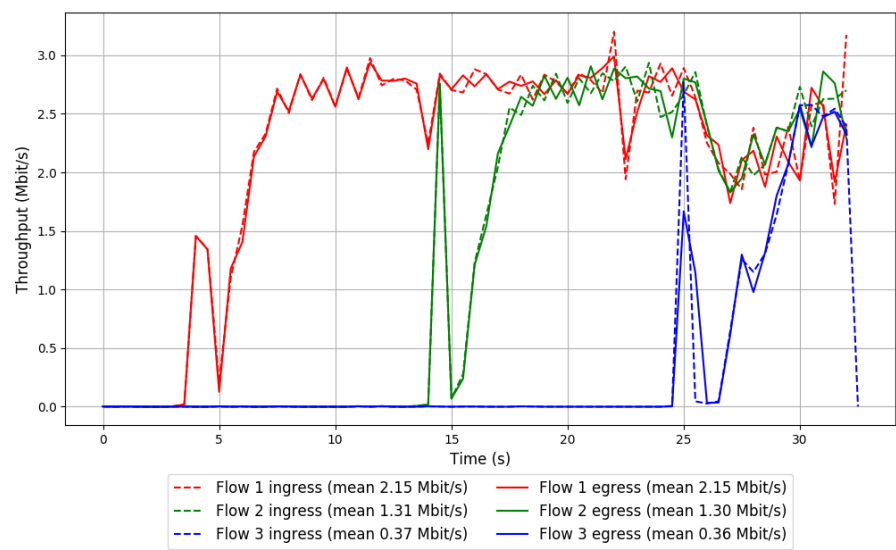
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 37.162 ms

Loss rate: 1.91%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 01:42:26 +0000

End at: Mon, 10 Jul 2017 01:42:56 +0000

Local clock offset: 0.851 ms

Remote clock offset: -1.72 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 36.459 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 36.448 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 36.574 ms

Loss rate: 0.34%

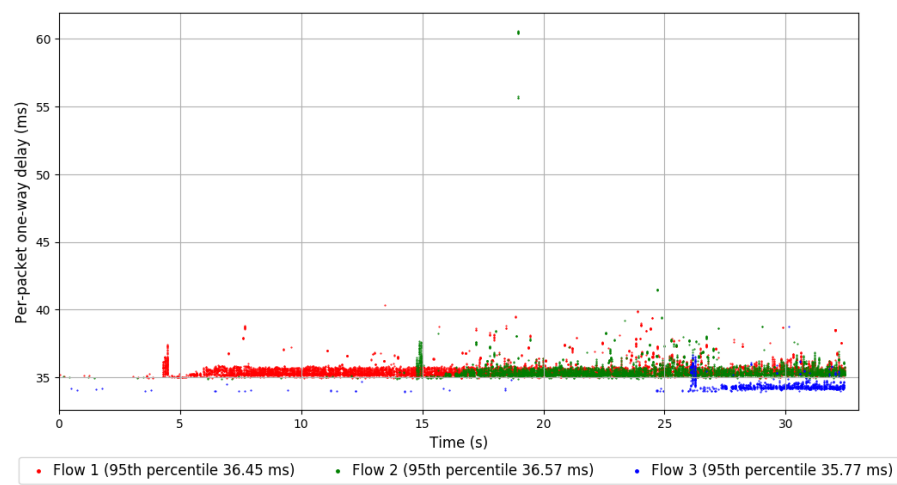
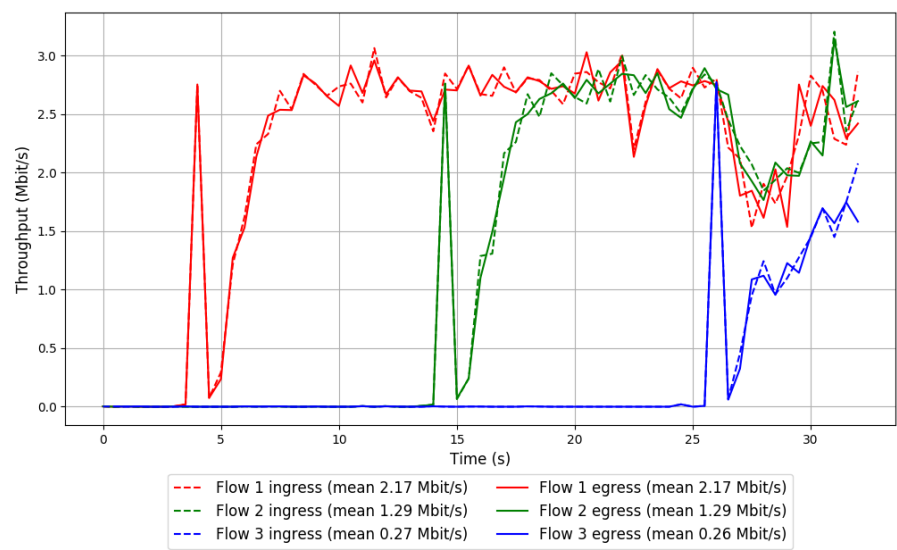
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 35.767 ms

Loss rate: 2.87%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 02:03:10 +0000

End at: Mon, 10 Jul 2017 02:03:40 +0000

Local clock offset: 0.815 ms

Remote clock offset: -1.387 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 36.085 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 35.254 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 36.598 ms

Loss rate: 0.69%

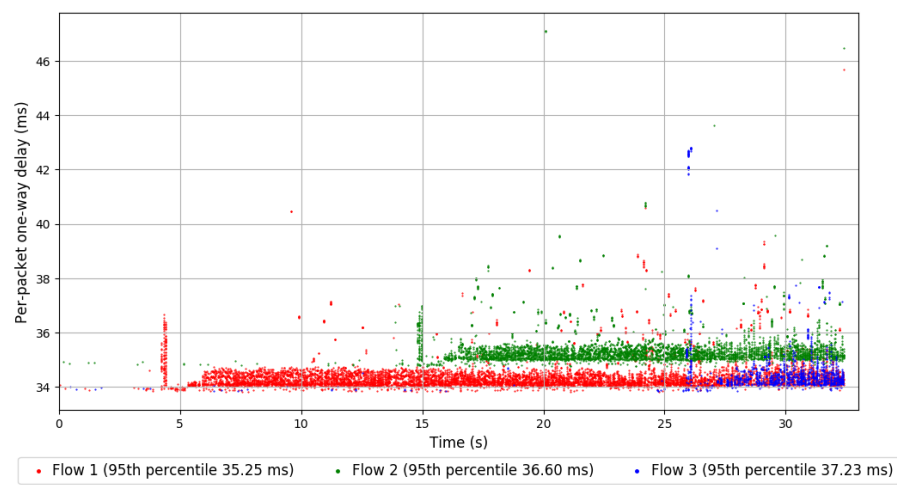
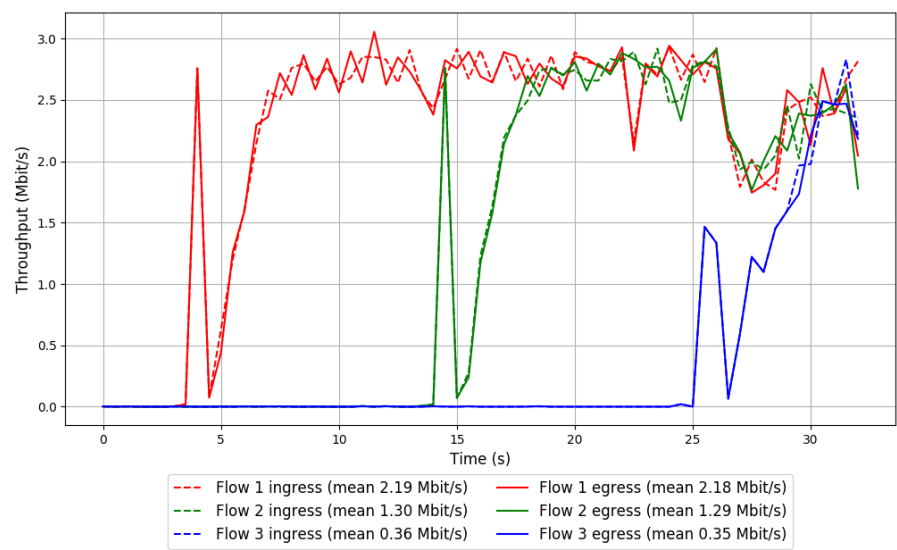
-- Flow 3:

Average throughput: 0.35 Mbit/s

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

Loss rate: 1.71%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 02:23:44 +0000

End at: Mon, 10 Jul 2017 02:24:14 +0000

Local clock offset: 0.965 ms

Remote clock offset: -3.807 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 36.087 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 36.091 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 35.423 ms

Loss rate: 0.37%

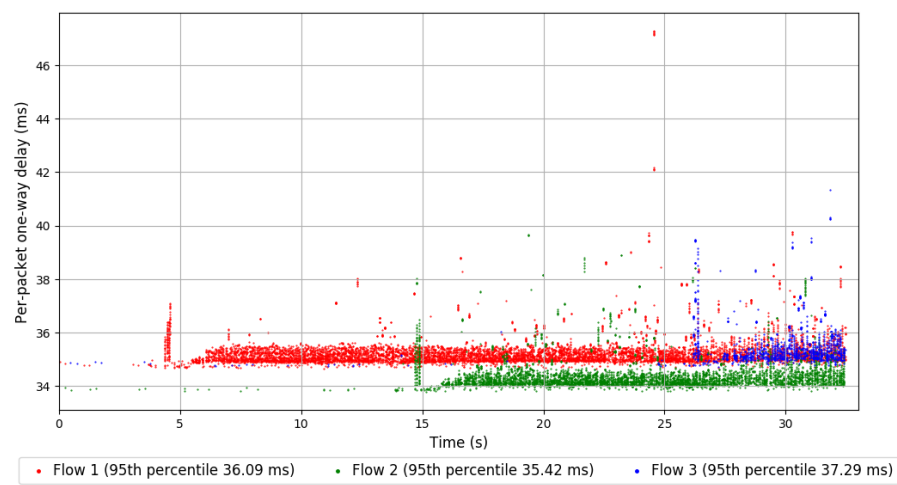
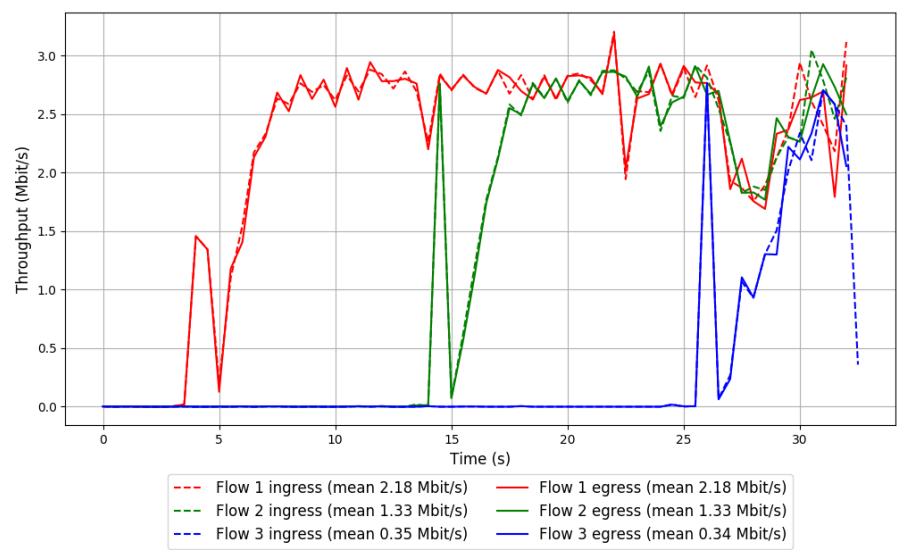
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 37.287 ms

Loss rate: 3.13%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 02:44:23 +0000

End at: Mon, 10 Jul 2017 02:44:53 +0000

Local clock offset: 0.788 ms

Remote clock offset: -1.789 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:43:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 36.240 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 35.101 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 37.198 ms

Loss rate: 0.51%

-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 37.967 ms

Loss rate: 1.93%

Run 10: Report of WebRTC media — Data Link

