

Pantheon Summary (Generated at Tue, 01 Aug 2017 05:52:03 +0000 with pantheon version 33c7b8d34ce04c76596315aa973f0b30d6129d55)

Repeated the test of 15 congestion control schemes 10 times.

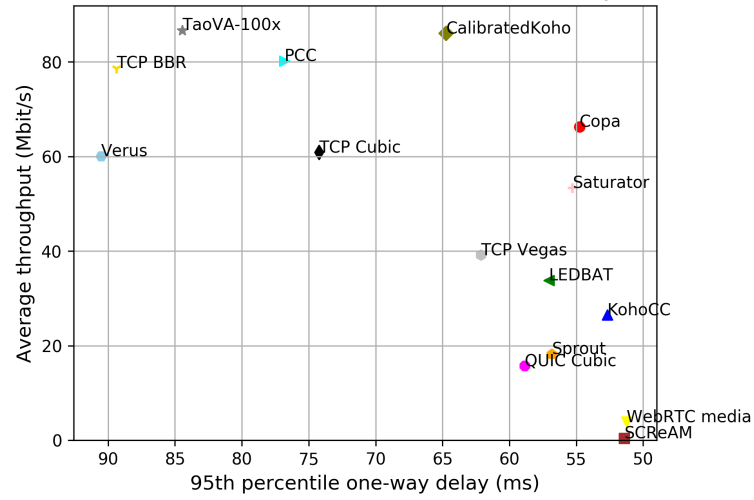
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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

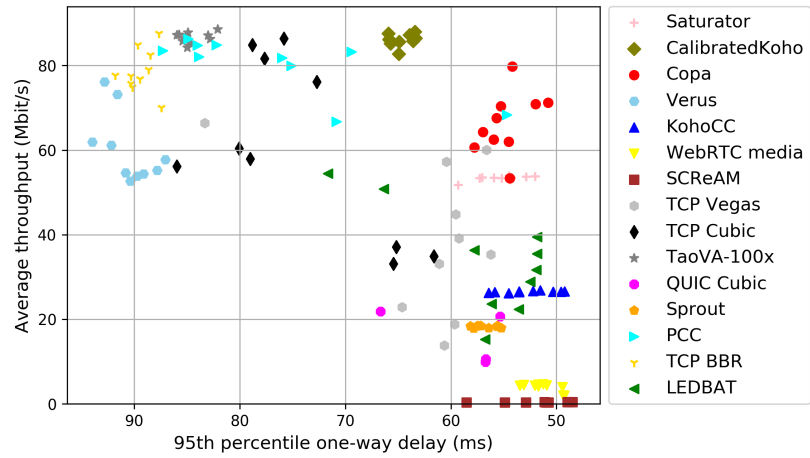
NTP offset measured against time.stanford.edu and has been applied to correct the timestamps in logs.

```
git branch: master @ 33c7b8d34ce04c76596315aa973f0b30d6129d55
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	56.99	26.34	14.29	89.44	89.11	89.20	26.96	29.68	36.59
CalibratedKoho	10	82.55	3.91	2.81	64.74	64.38	64.24	0.42	0.38	0.33
Copa	10	39.43	31.62	17.57	54.05	55.59	54.65	0.19	0.24	0.20
TCP Cubic	10	29.56	26.85	40.51	69.43	74.99	75.10	0.77	0.93	0.99
KohoCC	10	13.36	13.29	13.03	52.56	52.47	53.33	0.18	0.17	0.16
LEDBAT	10	20.91	14.33	10.34	56.60	57.20	57.81	0.15	0.24	0.26
PCC	10	66.89	12.66	14.89	76.19	78.26	75.13	2.39	2.41	2.42
QUIC Cubic	10	0.07	0.07	48.08	49.38	49.57	58.86	0.00	0.00	0.46
Saturator	10	26.89	26.65	26.27	55.03	55.25	55.91	0.32	0.28	0.37
SCReAM	10	0.19	0.20	0.22	51.30	51.09	51.26	0.15	0.13	0.08
Sprout	10	9.23	9.15	8.95	56.74	56.60	57.27	0.19	0.21	0.21
TaoVA-100x	10	53.99	40.04	50.89	82.57	86.12	79.09	11.40	19.60	30.88
TCP Vegas	10	19.72	17.36	23.81	61.33	60.11	61.14	1.51	0.69	1.15
Verus	10	44.51	18.74	11.92	90.67	89.92	88.86	48.48	42.11	48.14
WebRTC media	10	2.04	1.42	0.49	51.68	50.96	51.51	0.08	0.07	0.02

Run 1: Statistics of TCP BBR

Start at: Mon, 31 Jul 2017 22:13:16 +0000

End at: Mon, 31 Jul 2017 22:13:46 +0000

Local clock offset: 0.582 ms

Remote clock offset: -0.504 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:41:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 89.460 ms

Loss rate: 25.62%

-- Flow 1:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 89.430 ms

Loss rate: 24.92%

-- Flow 2:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 89.616 ms

Loss rate: 39.01%

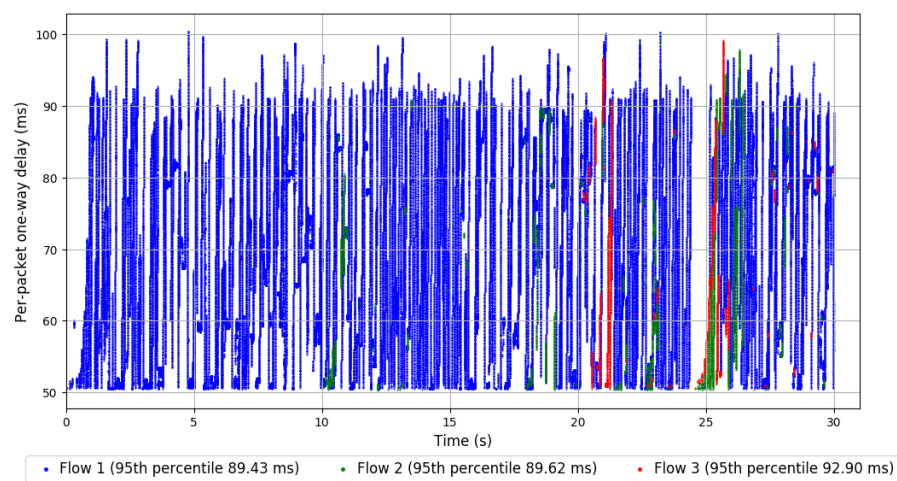
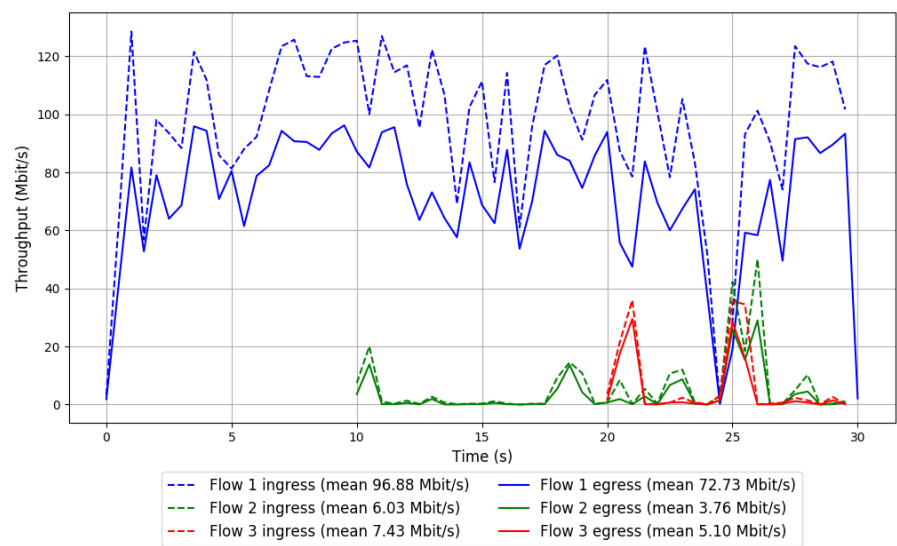
-- Flow 3:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 92.896 ms

Loss rate: 31.38%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Mon, 31 Jul 2017 22:34:11 +0000

End at: Mon, 31 Jul 2017 22:34:41 +0000

Local clock offset: 0.592 ms

Remote clock offset: -2.165 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:41:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 87.648 ms

Loss rate: 27.45%

-- Flow 1:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 87.442 ms

Loss rate: 27.52%

-- Flow 2:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 88.022 ms

Loss rate: 26.54%

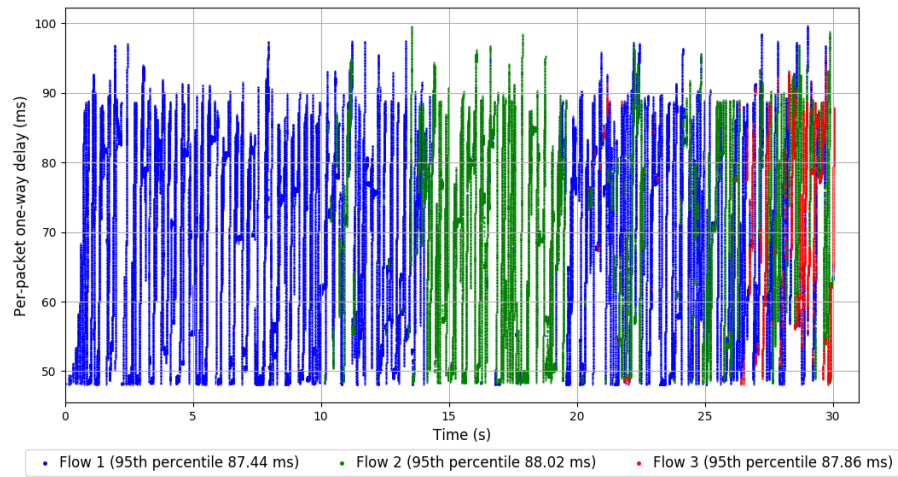
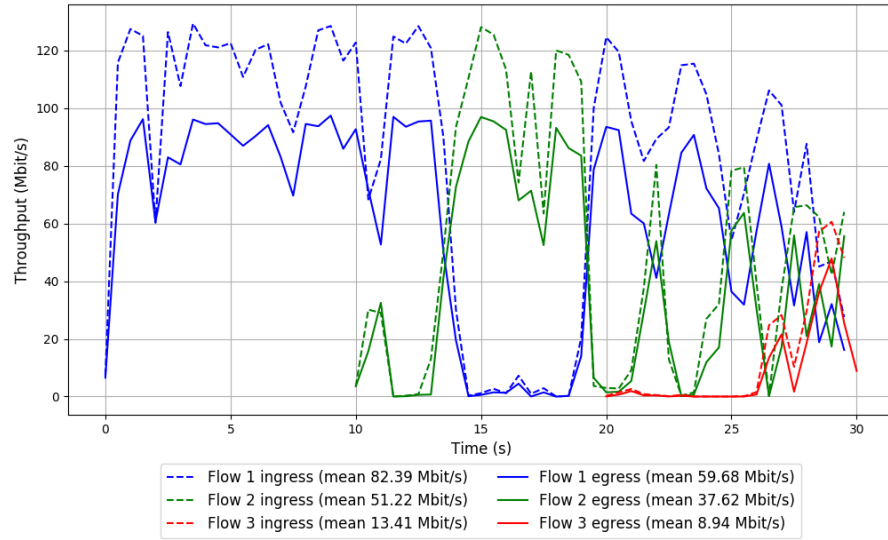
-- Flow 3:

Average throughput: 8.94 Mbit/s

95th percentile per-packet one-way delay: 87.859 ms

Loss rate: 33.24%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Mon, 31 Jul 2017 22:55:10 +0000

End at: Mon, 31 Jul 2017 22:55:40 +0000

Local clock offset: 0.689 ms

Remote clock offset: 0.868 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:41:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.90 Mbit/s

95th percentile per-packet one-way delay: 90.150 ms

Loss rate: 28.32%

-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 90.399 ms

Loss rate: 28.10%

-- Flow 2:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 89.739 ms

Loss rate: 28.19%

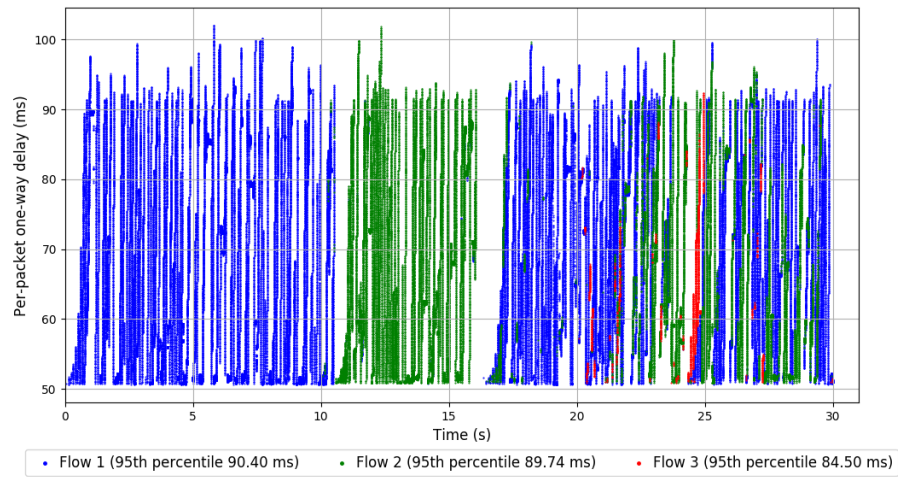
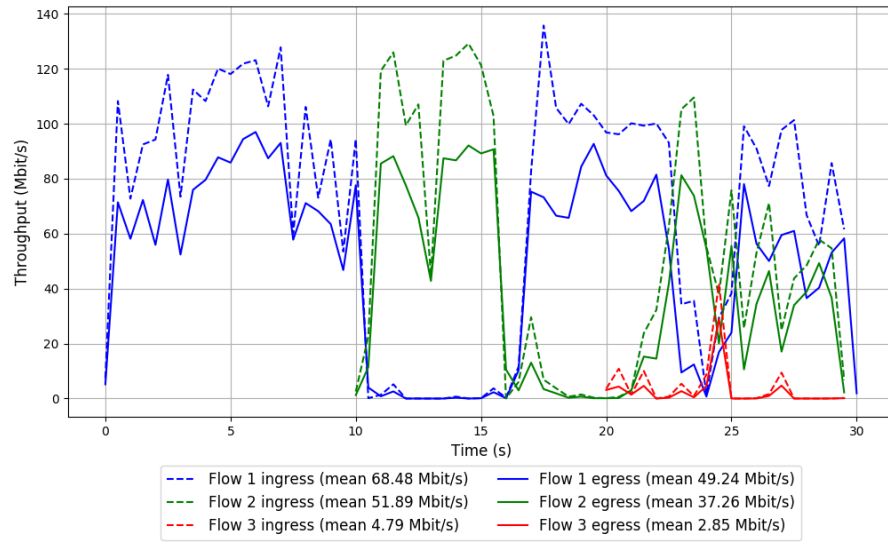
-- Flow 3:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 84.498 ms

Loss rate: 40.58%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Mon, 31 Jul 2017 23:15:59 +0000

End at: Mon, 31 Jul 2017 23:16:29 +0000

Local clock offset: 0.467 ms

Remote clock offset: -1.348 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:41:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 88.452 ms

Loss rate: 29.14%

-- Flow 1:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 88.488 ms

Loss rate: 25.32%

-- Flow 2:

Average throughput: 42.90 Mbit/s

95th percentile per-packet one-way delay: 88.425 ms

Loss rate: 35.96%

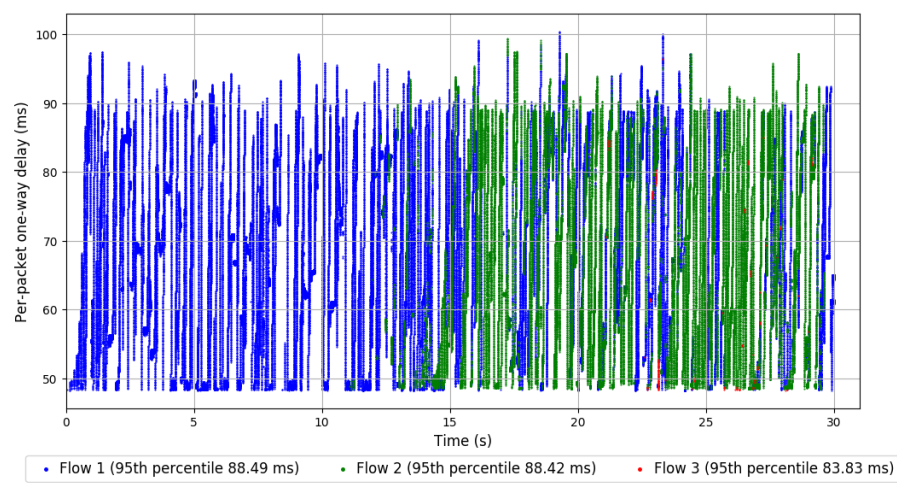
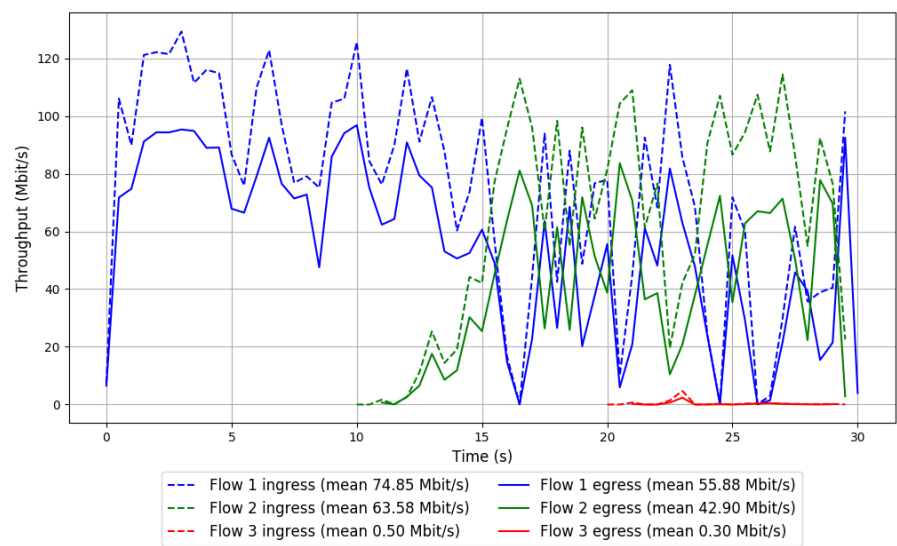
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 83.826 ms

Loss rate: 48.85%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Mon, 31 Jul 2017 23:36:50 +0000

End at: Mon, 31 Jul 2017 23:37:20 +0000

Local clock offset: 0.382 ms

Remote clock offset: -1.263 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:41:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.04 Mbit/s

95th percentile per-packet one-way delay: 87.424 ms

Loss rate: 27.45%

-- Flow 1:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 87.667 ms

Loss rate: 27.25%

-- Flow 2:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 87.673 ms

Loss rate: 27.46%

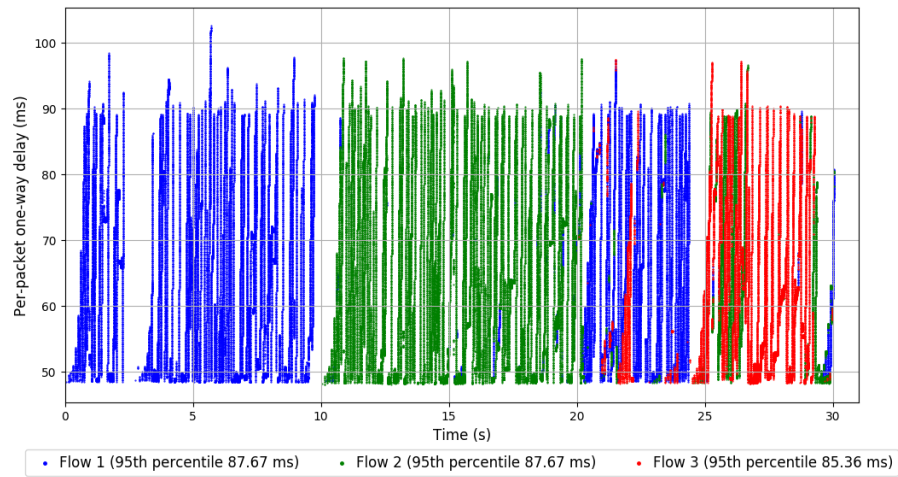
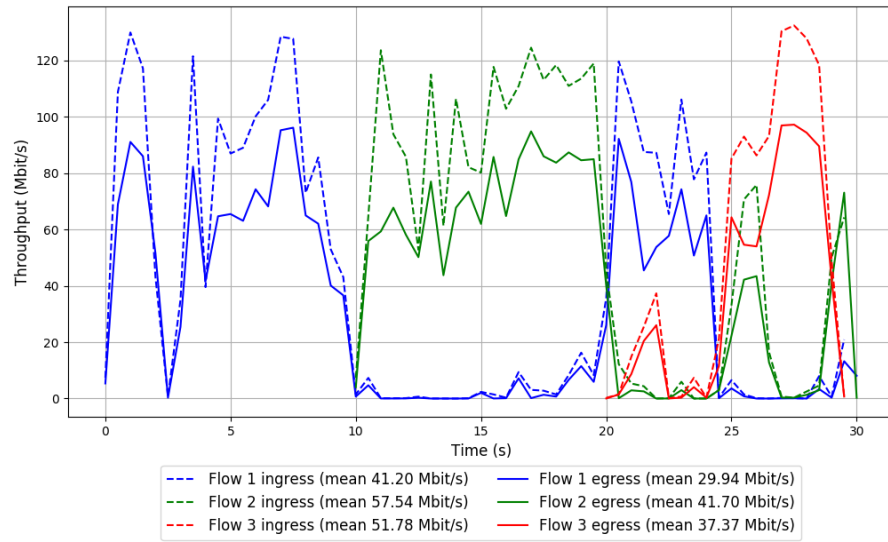
-- Flow 3:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 85.359 ms

Loss rate: 27.91%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Mon, 31 Jul 2017 23:57:44 +0000

End at: Mon, 31 Jul 2017 23:58:14 +0000

Local clock offset: 0.587 ms

Remote clock offset: 1.416 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 90.305 ms

Loss rate: 28.59%

-- Flow 1:

Average throughput: 51.16 Mbit/s

95th percentile per-packet one-way delay: 90.458 ms

Loss rate: 28.51%

-- Flow 2:

Average throughput: 40.03 Mbit/s

95th percentile per-packet one-way delay: 89.586 ms

Loss rate: 28.27%

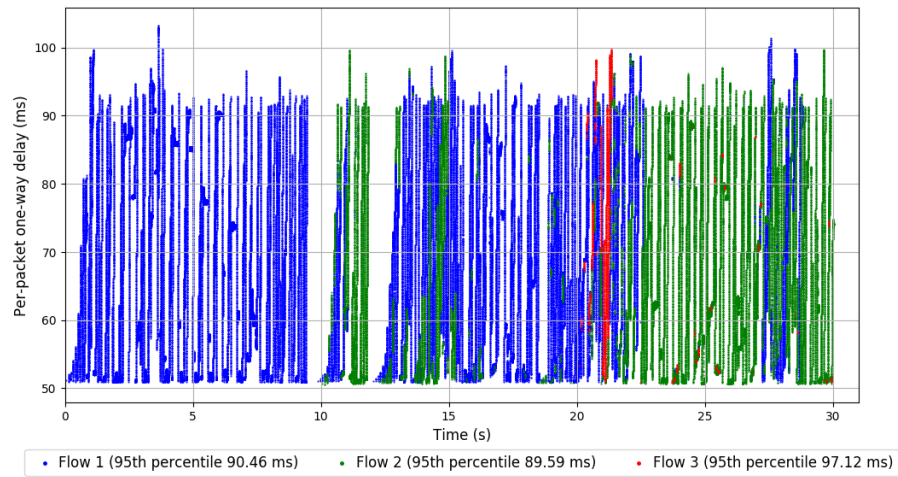
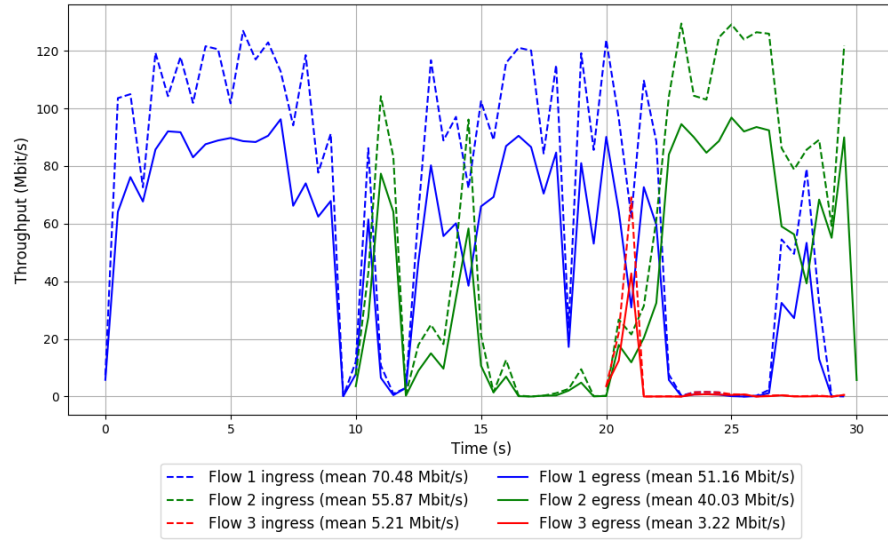
-- Flow 3:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 97.116 ms

Loss rate: 38.30%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 00:19:14 +0000

End at: Tue, 01 Aug 2017 00:19:44 +0000

Local clock offset: 0.618 ms

Remote clock offset: 1.038 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.74 Mbit/s

95th percentile per-packet one-way delay: 90.298 ms

Loss rate: 27.30%

-- Flow 1:

Average throughput: 69.42 Mbit/s

95th percentile per-packet one-way delay: 90.320 ms

Loss rate: 26.99%

-- Flow 2:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 87.300 ms

Loss rate: 25.38%

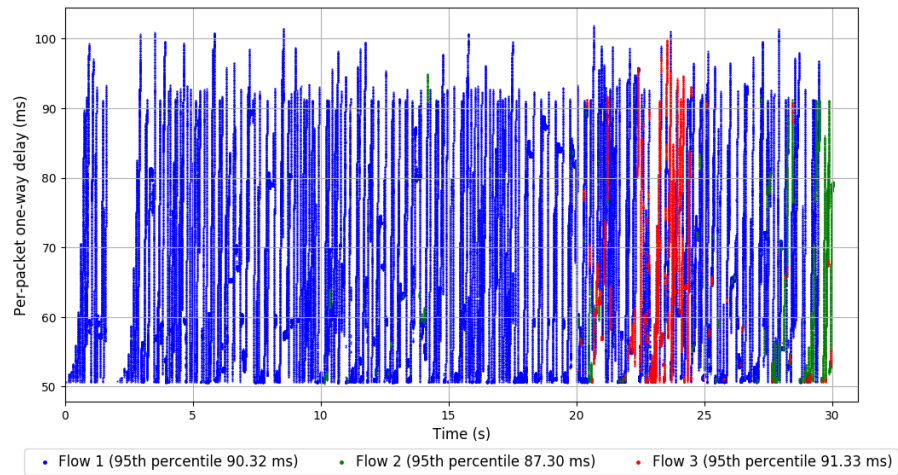
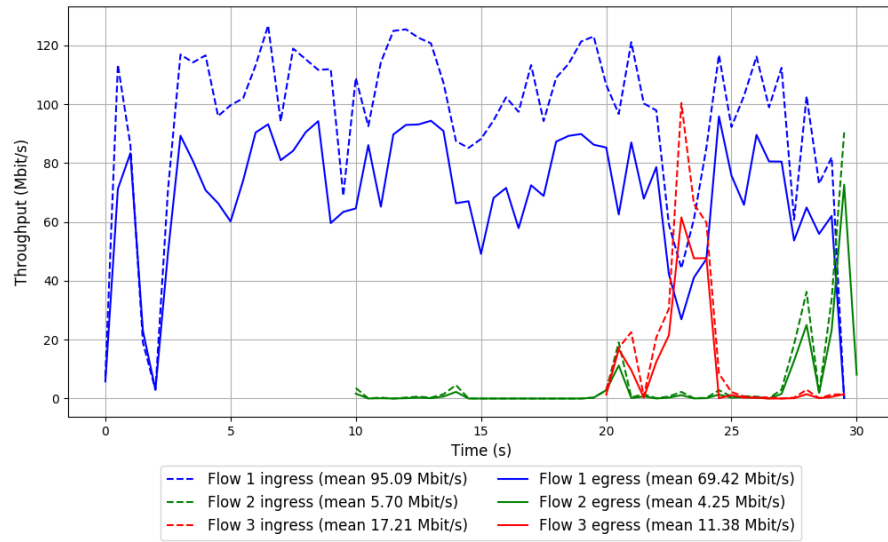
-- Flow 3:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 91.335 ms

Loss rate: 33.82%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 00:40:26 +0000

End at: Tue, 01 Aug 2017 00:40:56 +0000

Local clock offset: 0.826 ms

Remote clock offset: 1.059 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 89.659 ms

Loss rate: 27.12%

-- Flow 1:

Average throughput: 67.62 Mbit/s

95th percentile per-packet one-way delay: 89.687 ms

Loss rate: 26.11%

-- Flow 2:

Average throughput: 17.26 Mbit/s

95th percentile per-packet one-way delay: 89.594 ms

Loss rate: 26.27%

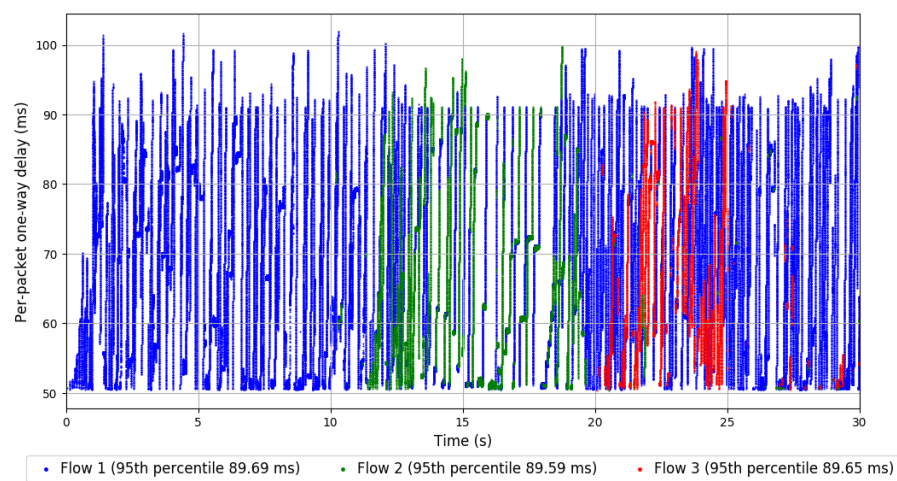
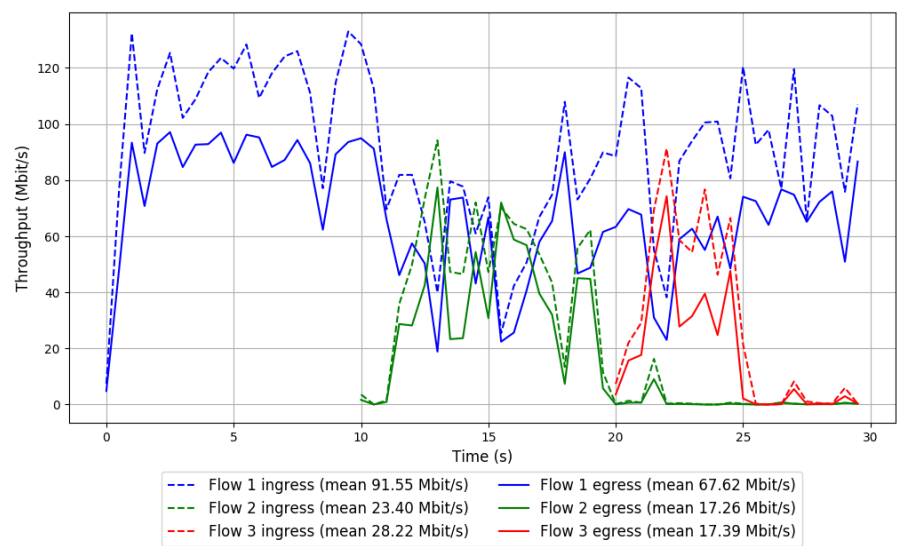
-- Flow 3:

Average throughput: 17.39 Mbit/s

95th percentile per-packet one-way delay: 89.647 ms

Loss rate: 38.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

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

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

Local clock offset: 0.834 ms

Remote clock offset: -1.151 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 88.634 ms

Loss rate: 26.65%

-- Flow 1:

Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 88.675 ms

Loss rate: 26.74%

-- Flow 2:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 89.600 ms

Loss rate: 27.44%

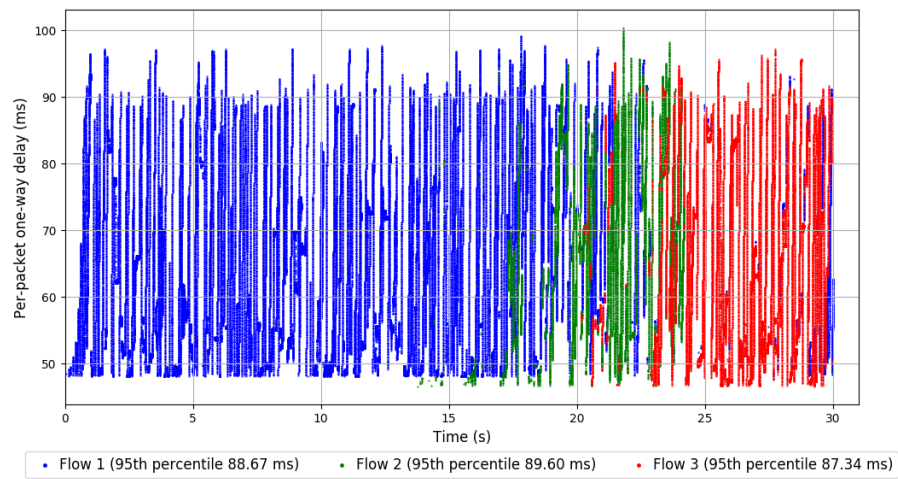
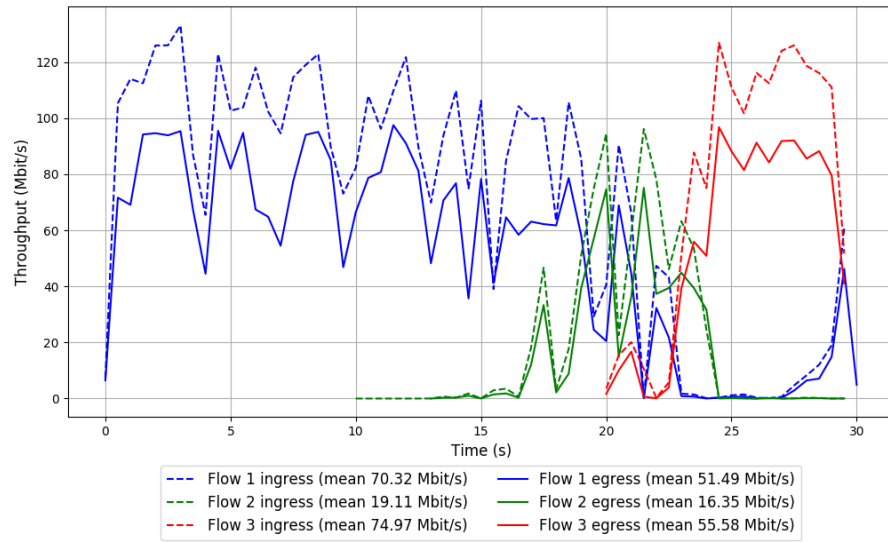
-- Flow 3:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 87.337 ms

Loss rate: 25.99%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 01:23:28 +0000

End at: Tue, 01 Aug 2017 01:23:58 +0000

Local clock offset: 0.803 ms

Remote clock offset: 0.862 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.69 Mbit/s

95th percentile per-packet one-way delay: 91.794 ms

Loss rate: 29.00%

-- Flow 1:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 91.846 ms

Loss rate: 28.10%

-- Flow 2:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 91.526 ms

Loss rate: 32.24%

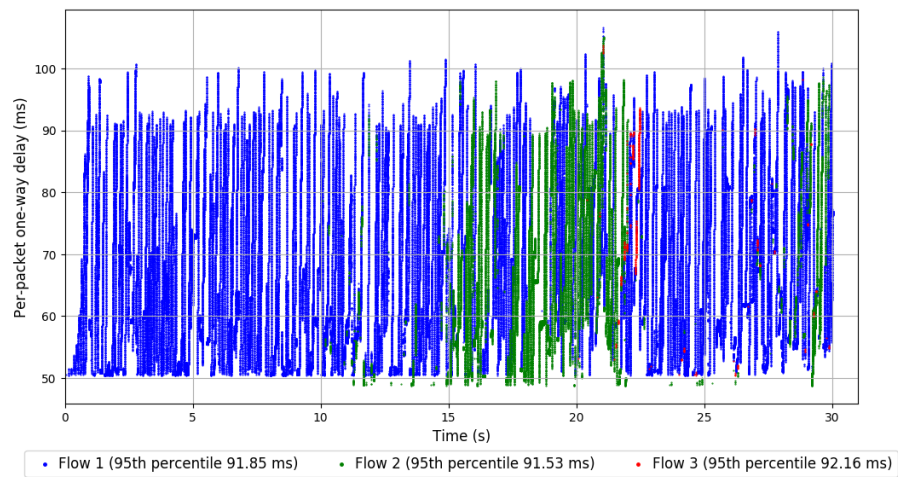
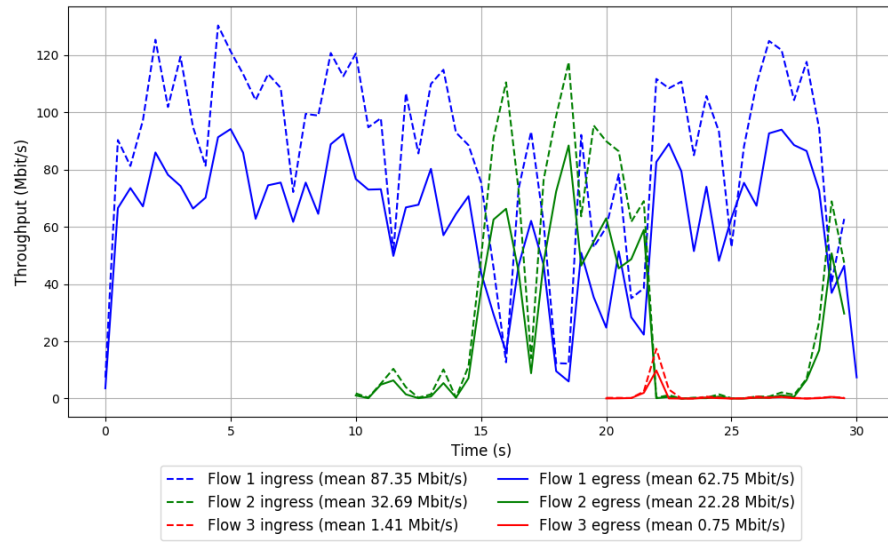
-- Flow 3:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 92.162 ms

Loss rate: 47.51%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Mon, 31 Jul 2017 22:10:30 +0000

End at: Mon, 31 Jul 2017 22:11:00 +0000

Local clock offset: 0.626 ms

Remote clock offset: -2.614 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 63.338 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 84.67 Mbit/s

95th percentile per-packet one-way delay: 63.349 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 62.714 ms

Loss rate: 0.04%

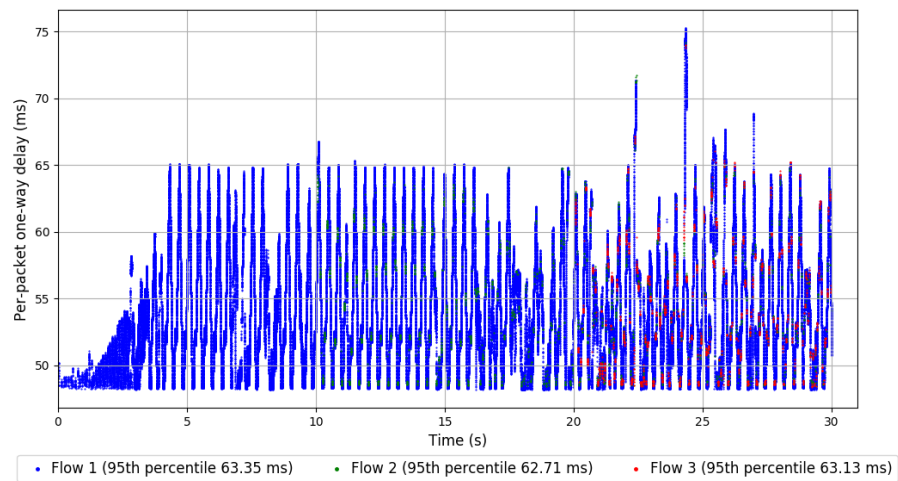
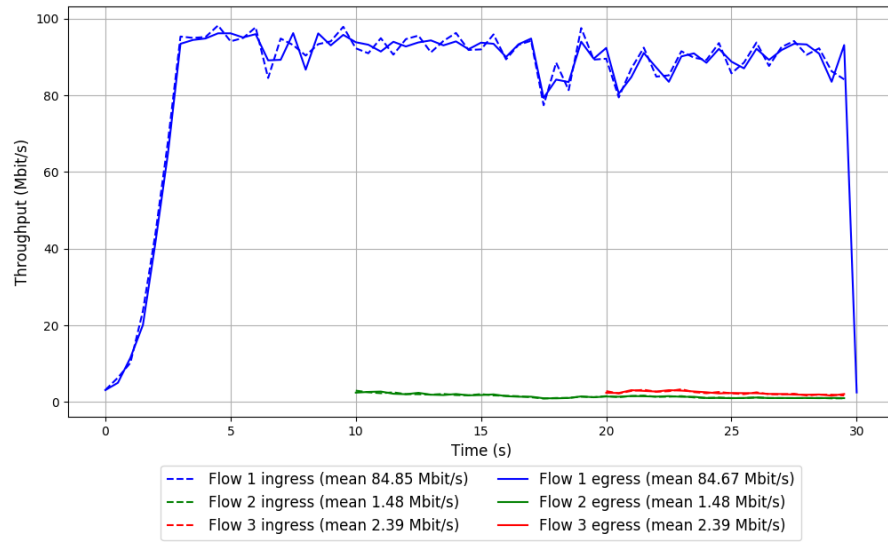
-- Flow 3:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 63.127 ms

Loss rate: 0.00%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Mon, 31 Jul 2017 22:31:24 +0000

End at: Mon, 31 Jul 2017 22:31:54 +0000

Local clock offset: 0.599 ms

Remote clock offset: -0.062 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 65.823 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 65.837 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 64.376 ms

Loss rate: 0.26%

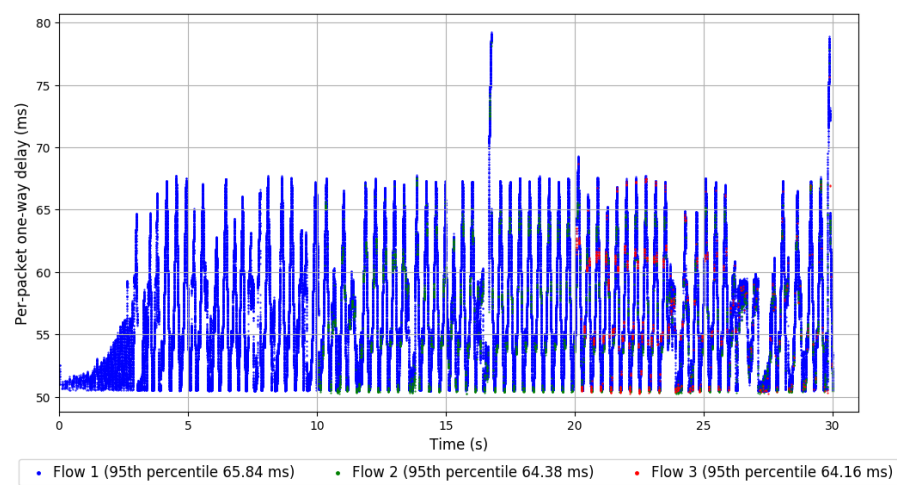
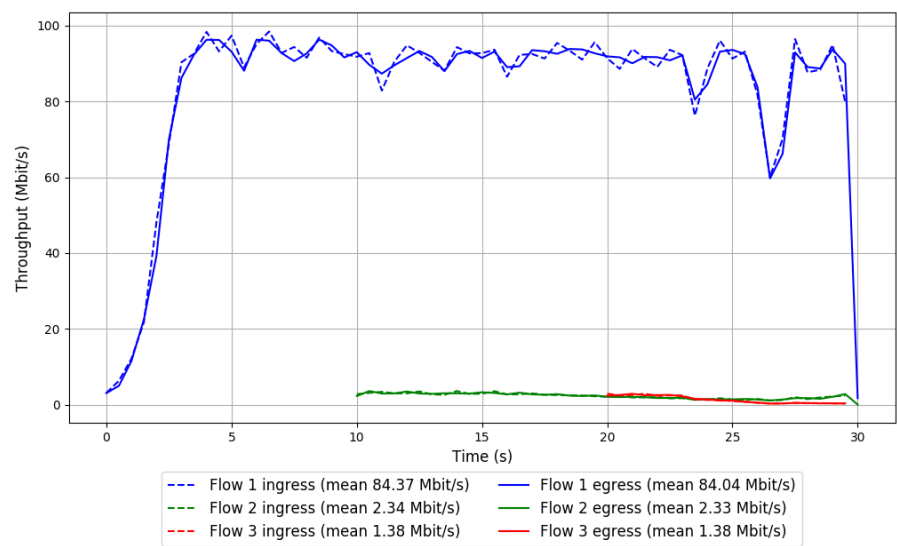
-- Flow 3:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 64.158 ms

Loss rate: 0.18%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Mon, 31 Jul 2017 22:52:24 +0000

End at: Mon, 31 Jul 2017 22:52:54 +0000

Local clock offset: 0.563 ms

Remote clock offset: -1.656 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 63.399 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 63.408 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 62.350 ms

Loss rate: 0.20%

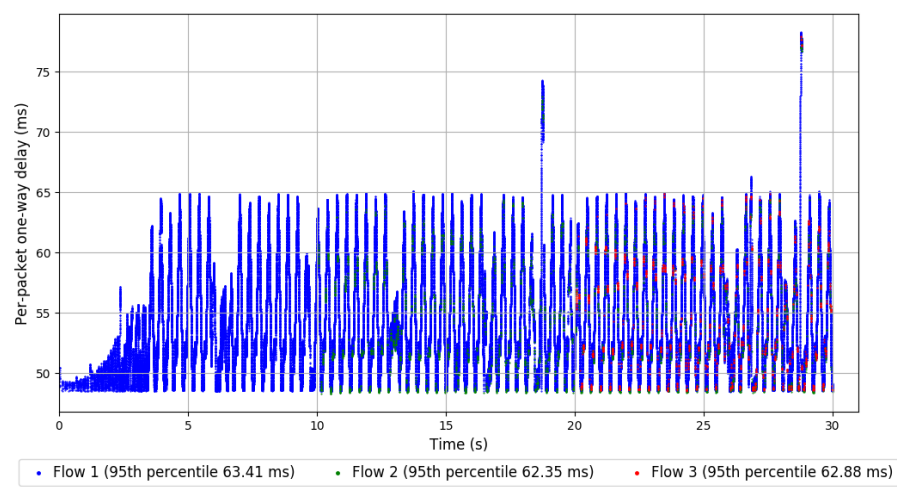
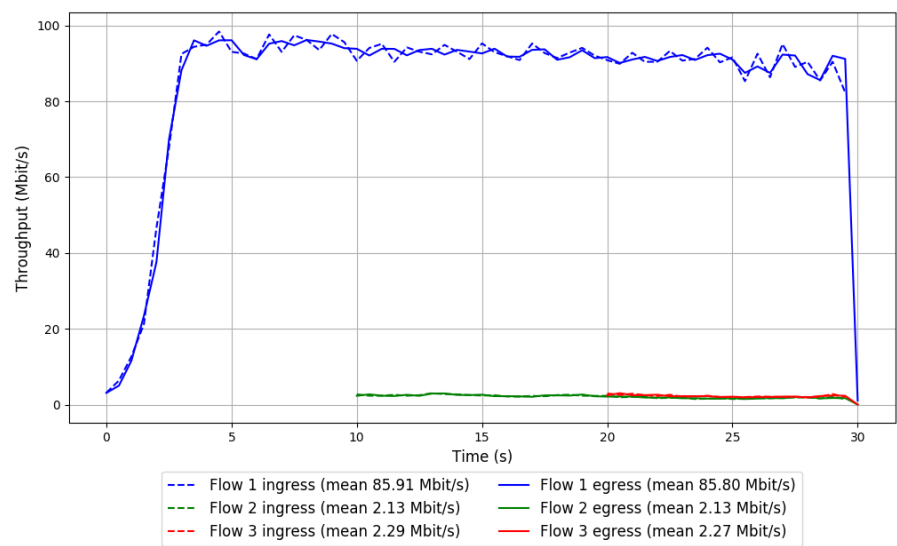
-- Flow 3:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 62.879 ms

Loss rate: 0.84%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Mon, 31 Jul 2017 23:13:13 +0000

End at: Mon, 31 Jul 2017 23:13:43 +0000

Local clock offset: 0.582 ms

Remote clock offset: -1.493 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 63.903 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 63.895 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 64.155 ms

Loss rate: 0.70%

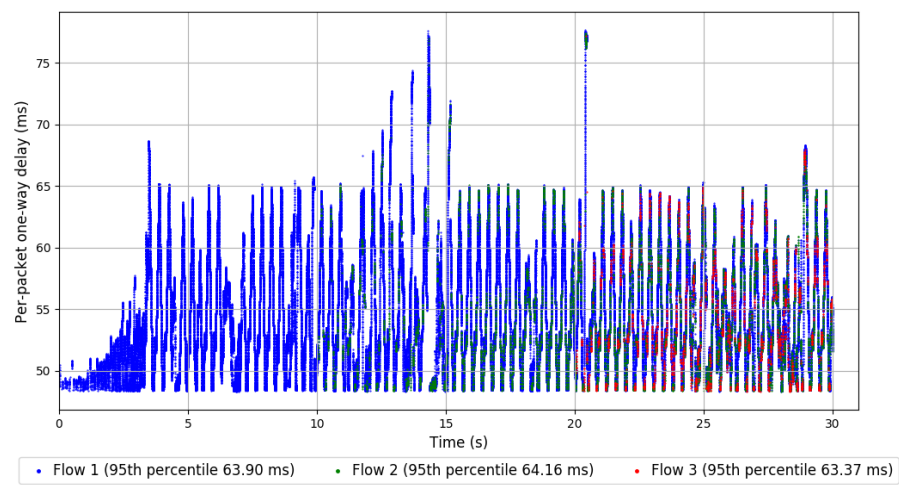
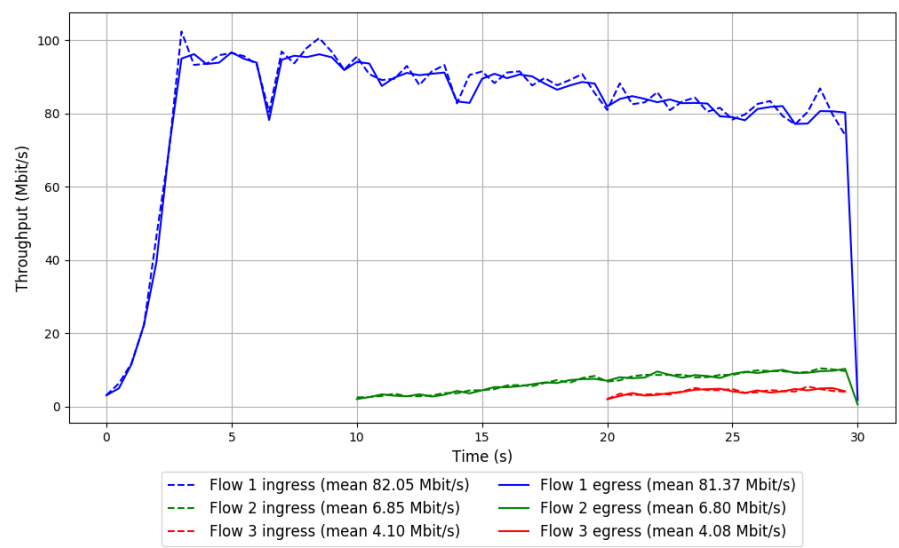
-- Flow 3:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 63.366 ms

Loss rate: 0.53%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: Mon, 31 Jul 2017 23:34:04 +0000

End at: Mon, 31 Jul 2017 23:34:34 +0000

Local clock offset: 0.476 ms

Remote clock offset: 1.177 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:42:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.60 Mbit/s

95th percentile per-packet one-way delay: 64.891 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 77.93 Mbit/s

95th percentile per-packet one-way delay: 64.948 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 64.179 ms

Loss rate: 0.17%

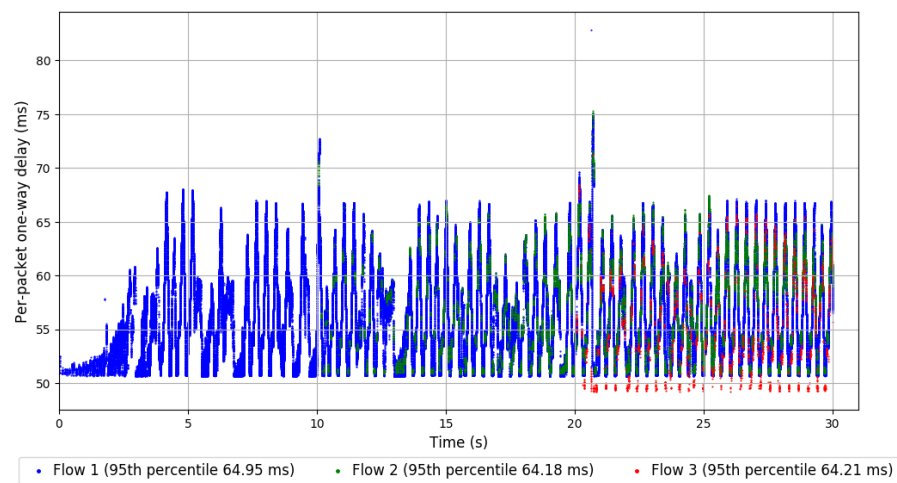
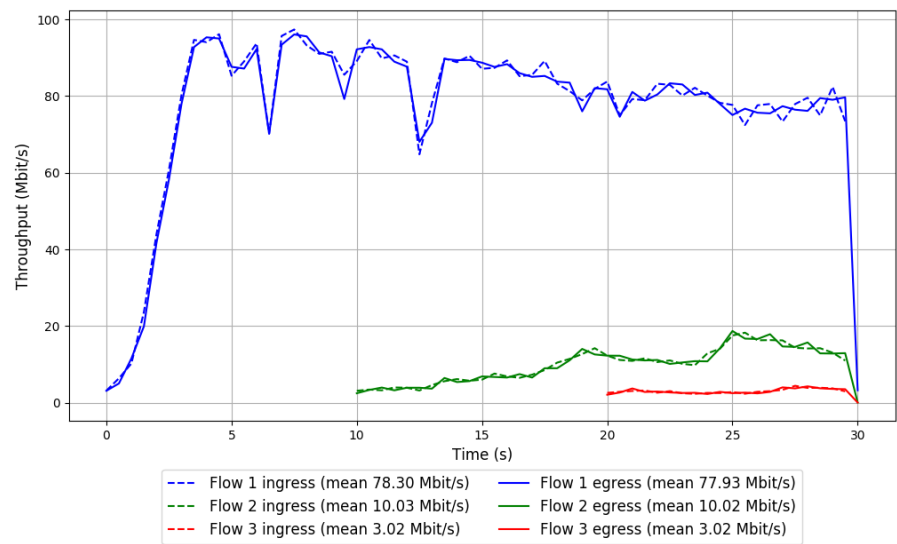
-- Flow 3:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 64.214 ms

Loss rate: 0.00%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Mon, 31 Jul 2017 23:54:57 +0000

End at: Mon, 31 Jul 2017 23:55:27 +0000

Local clock offset: 0.544 ms

Remote clock offset: -1.11 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:43:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.77 Mbit/s

95th percentile per-packet one-way delay: 63.586 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 81.38 Mbit/s

95th percentile per-packet one-way delay: 63.579 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 64.029 ms

Loss rate: 0.53%

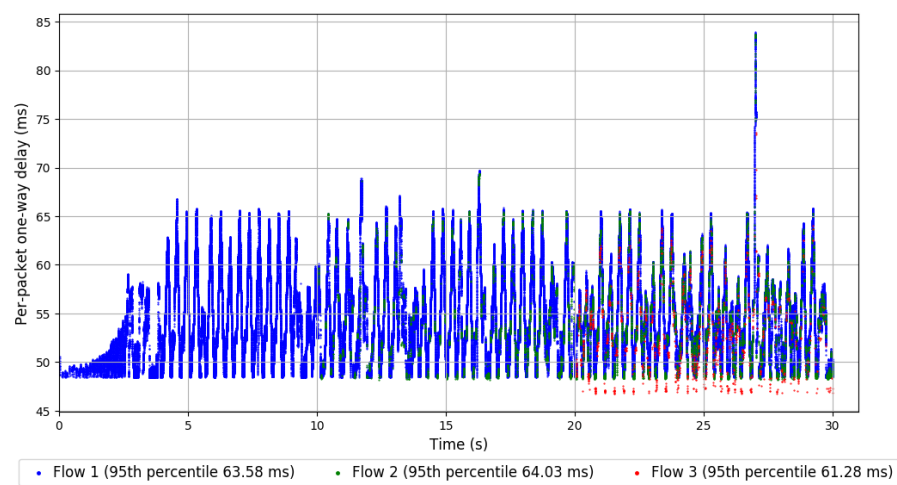
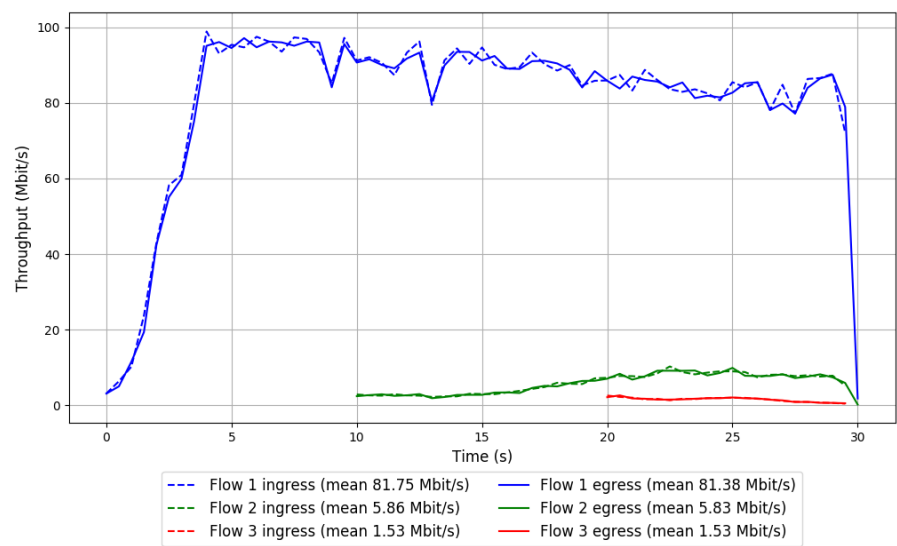
-- Flow 3:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 61.278 ms

Loss rate: 0.32%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 00:16:25 +0000

End at: Tue, 01 Aug 2017 00:16:55 +0000

Local clock offset: 0.615 ms

Remote clock offset: 1.438 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:43:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 65.726 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 81.97 Mbit/s

95th percentile per-packet one-way delay: 65.742 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 64.677 ms

Loss rate: 0.32%

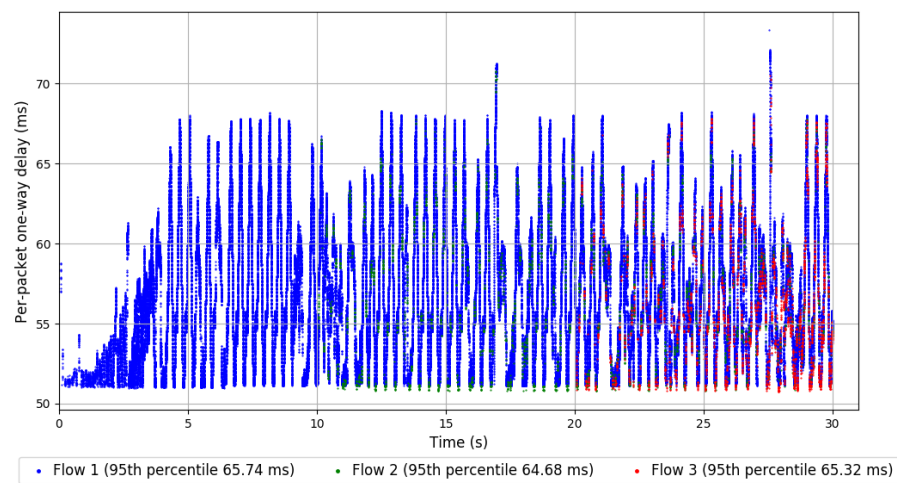
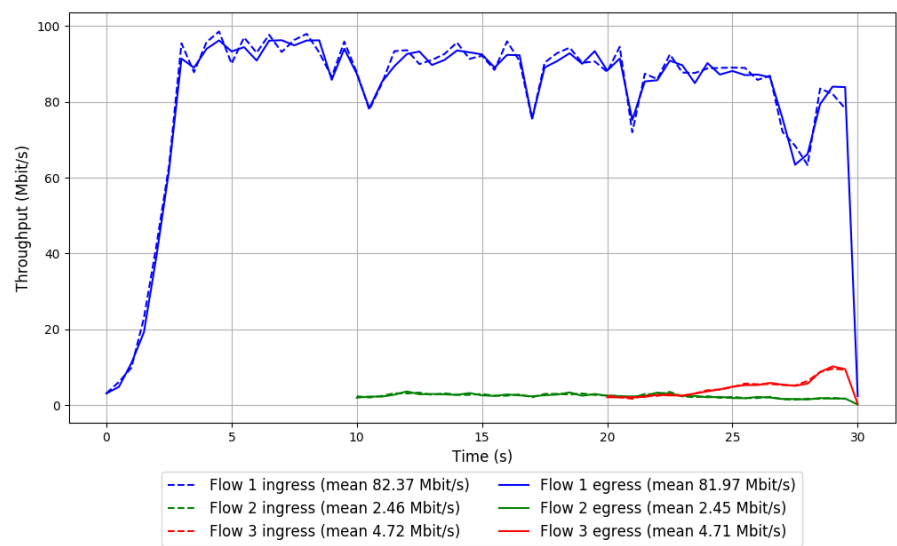
-- Flow 3:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 65.320 ms

Loss rate: 0.38%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 00:37:38 +0000

End at: Tue, 01 Aug 2017 00:38:08 +0000

Local clock offset: 0.721 ms

Remote clock offset: 1.011 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:43:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 65.926 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 65.904 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 67.057 ms

Loss rate: 0.41%

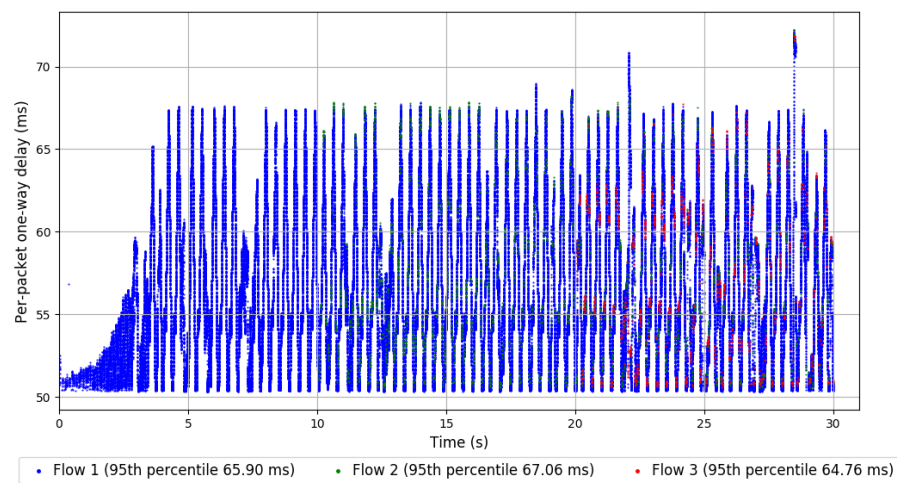
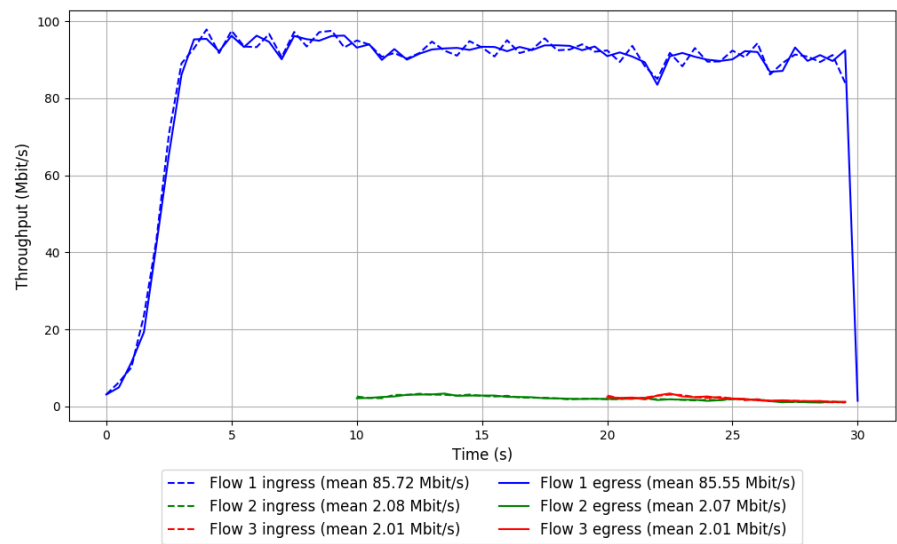
-- Flow 3:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 64.764 ms

Loss rate: 0.18%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 00:58:34 +0000

End at: Tue, 01 Aug 2017 00:59:04 +0000

Local clock offset: 0.865 ms

Remote clock offset: 1.471 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:43:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.22 Mbit/s

95th percentile per-packet one-way delay: 65.844 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 83.80 Mbit/s

95th percentile per-packet one-way delay: 65.843 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 65.095 ms

Loss rate: 0.58%

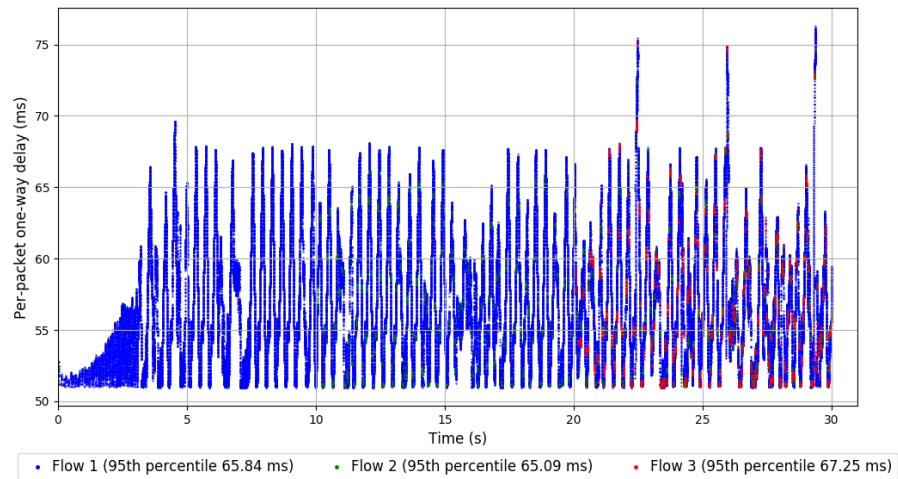
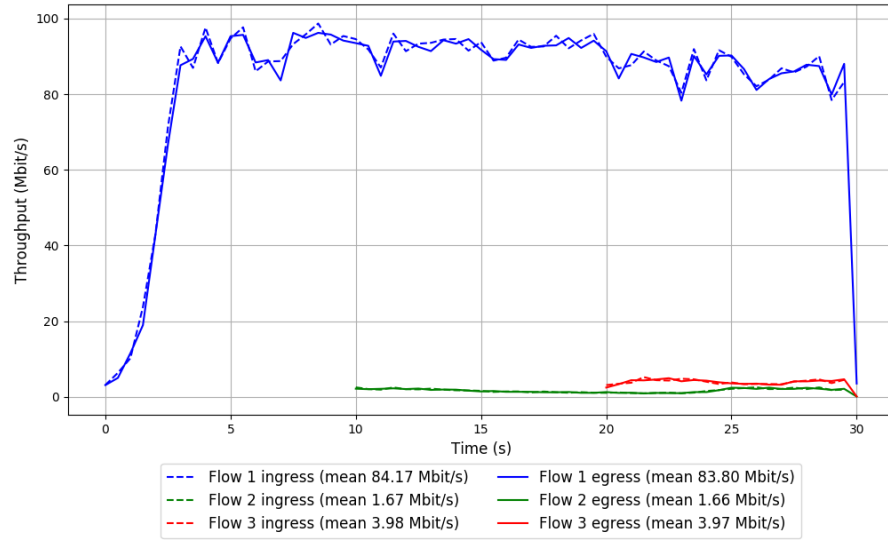
-- Flow 3:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 67.249 ms

Loss rate: 0.33%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 01:20:35 +0000

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

Local clock offset: 0.744 ms

Remote clock offset: 1.014 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:43:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 64.937 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 78.94 Mbit/s

95th percentile per-packet one-way delay: 64.922 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 65.160 ms

Loss rate: 0.63%

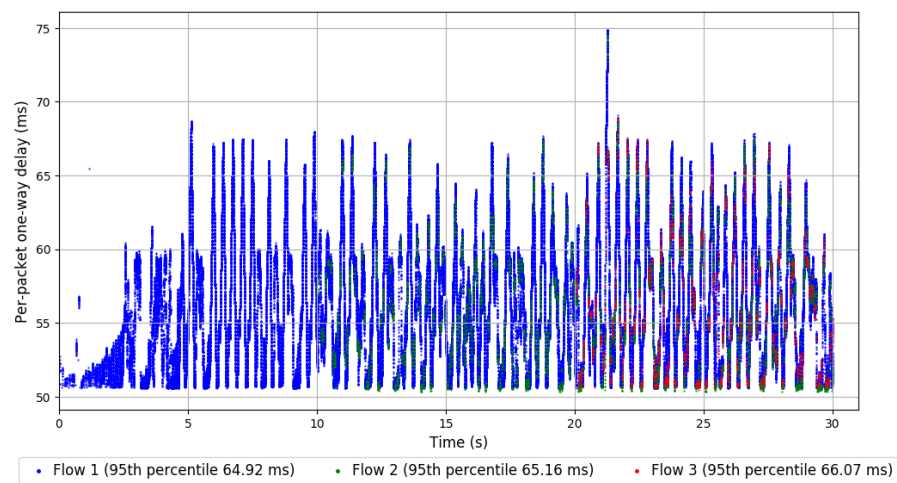
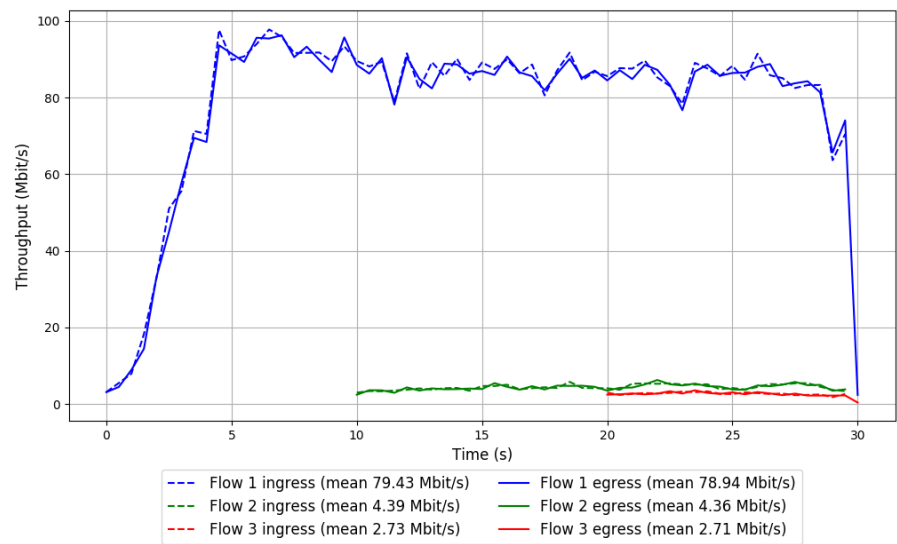
-- Flow 3:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 66.067 ms

Loss rate: 0.58%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Mon, 31 Jul 2017 22:27:10 +0000

End at: Mon, 31 Jul 2017 22:27:40 +0000

Local clock offset: 0.479 ms

Remote clock offset: -2.292 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:43:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 50.186 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 52.131 ms

Loss rate: 0.14%

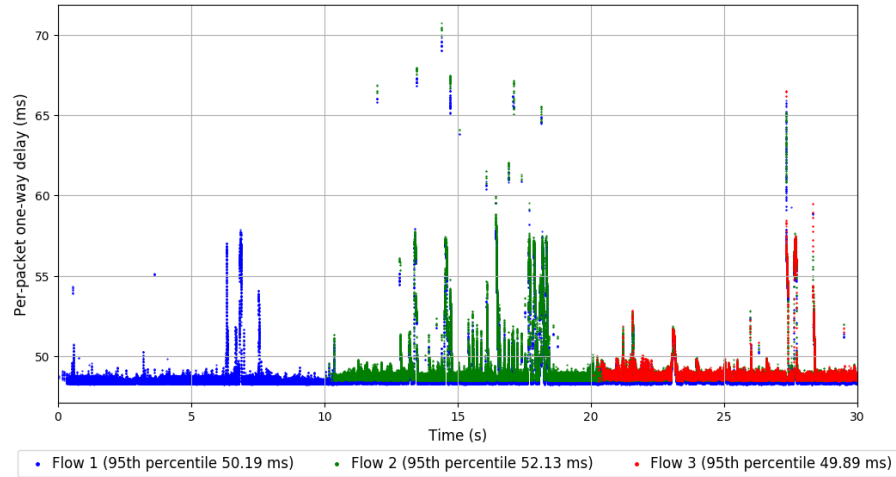
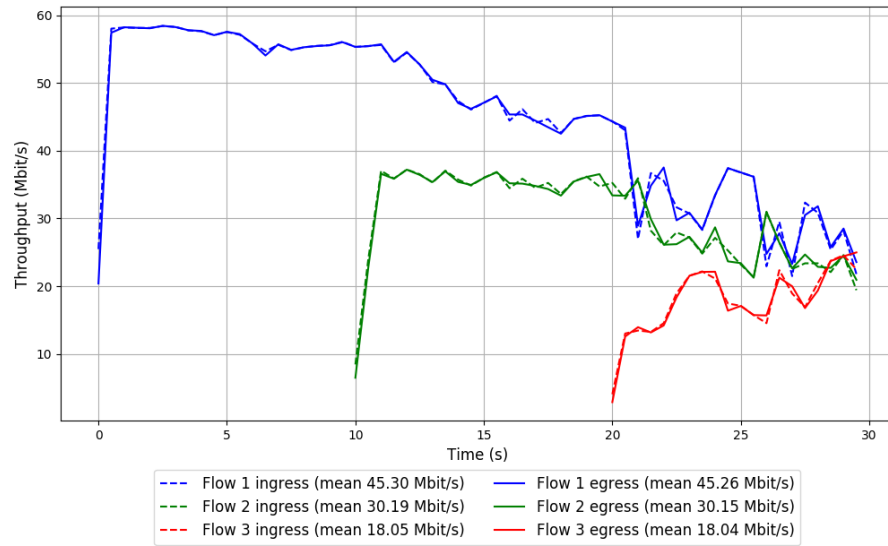
-- Flow 3:

Average throughput: 18.04 Mbit/s

95th percentile per-packet one-way delay: 49.890 ms

Loss rate: 0.04%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Mon, 31 Jul 2017 22:48:08 +0000

End at: Mon, 31 Jul 2017 22:48:38 +0000

Local clock offset: 0.554 ms

Remote clock offset: 0.839 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:43:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 54.197 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 54.76 Mbit/s

95th percentile per-packet one-way delay: 53.167 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 28.35 Mbit/s

95th percentile per-packet one-way delay: 55.978 ms

Loss rate: 0.10%

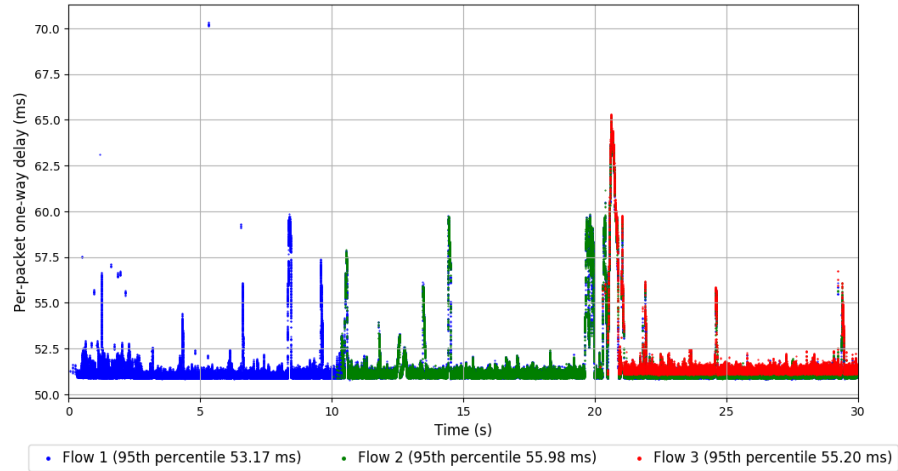
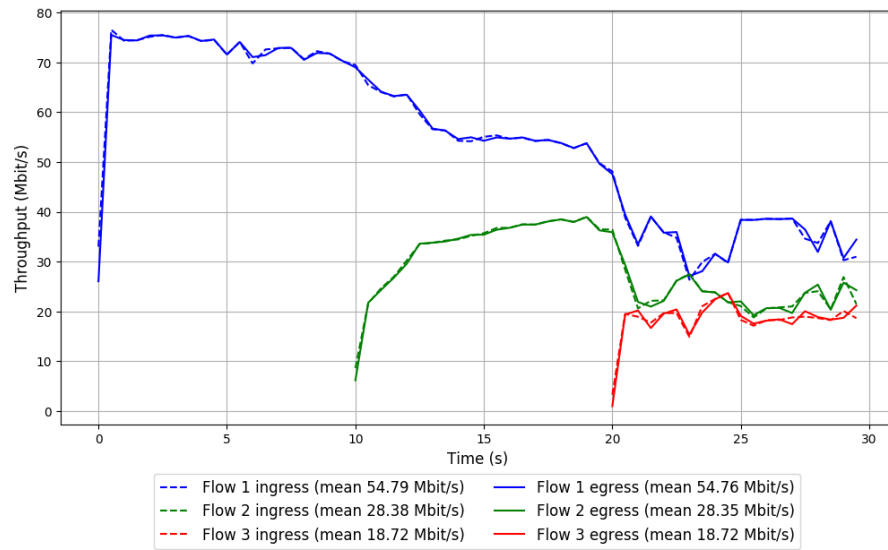
-- Flow 3:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 55.197 ms

Loss rate: 0.03%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Mon, 31 Jul 2017 23:09:03 +0000

End at: Mon, 31 Jul 2017 23:09:33 +0000

Local clock offset: 0.536 ms

Remote clock offset: 1.089 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:43:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 55.962 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: 55.410 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 56.130 ms

Loss rate: 0.17%

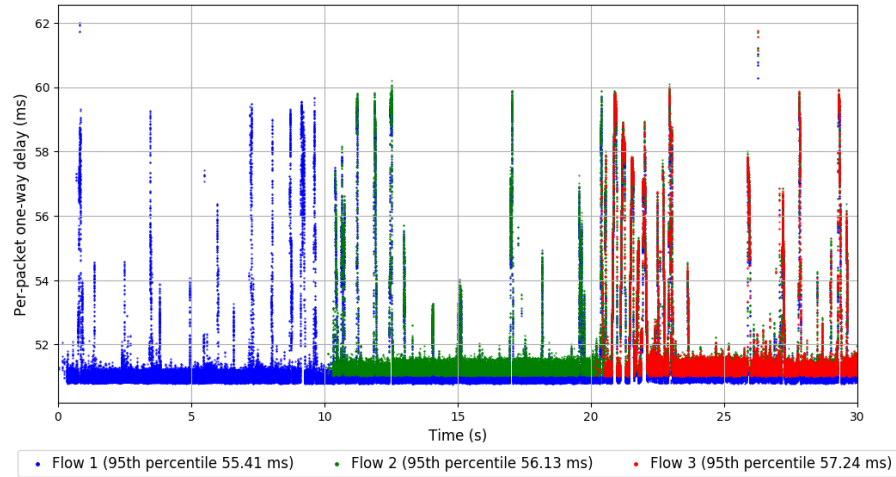
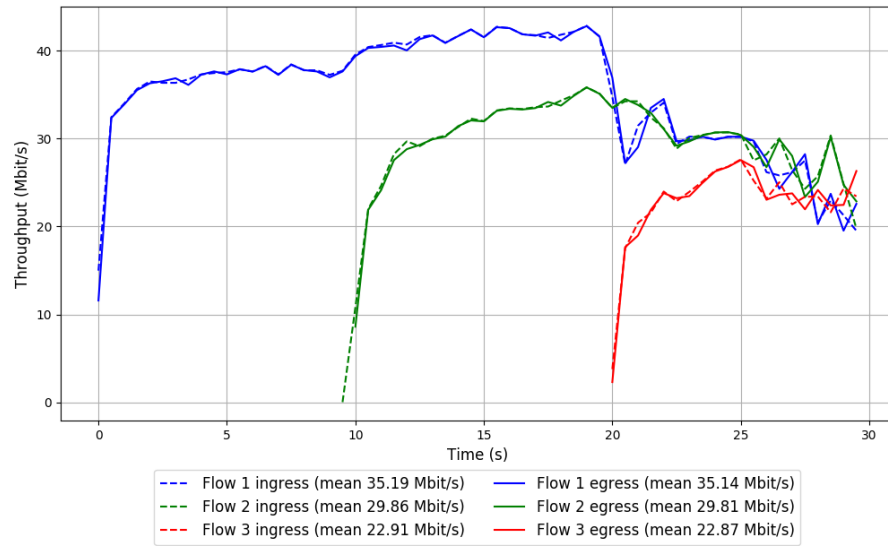
-- Flow 3:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 57.243 ms

Loss rate: 0.18%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Mon, 31 Jul 2017 23:29:52 +0000

End at: Mon, 31 Jul 2017 23:30:22 +0000

Local clock offset: 0.402 ms

Remote clock offset: 1.286 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:44:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.30 Mbit/s

95th percentile per-packet one-way delay: 56.969 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 56.775 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 57.076 ms

Loss rate: 0.30%

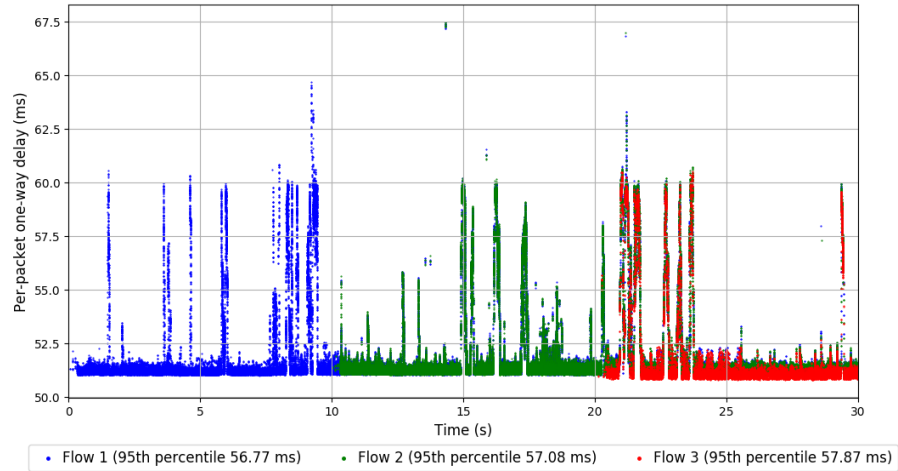
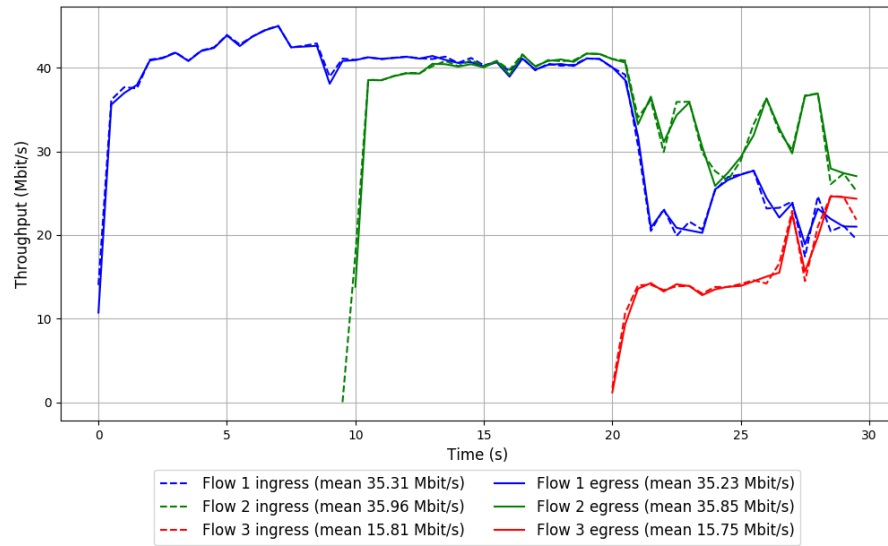
-- Flow 3:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 57.866 ms

Loss rate: 0.39%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Mon, 31 Jul 2017 23:50:43 +0000

End at: Mon, 31 Jul 2017 23:51:13 +0000

Local clock offset: 0.432 ms

Remote clock offset: -1.237 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:44:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.92 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 40.38 Mbit/s

95th percentile per-packet one-way delay: 50.346 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.10%

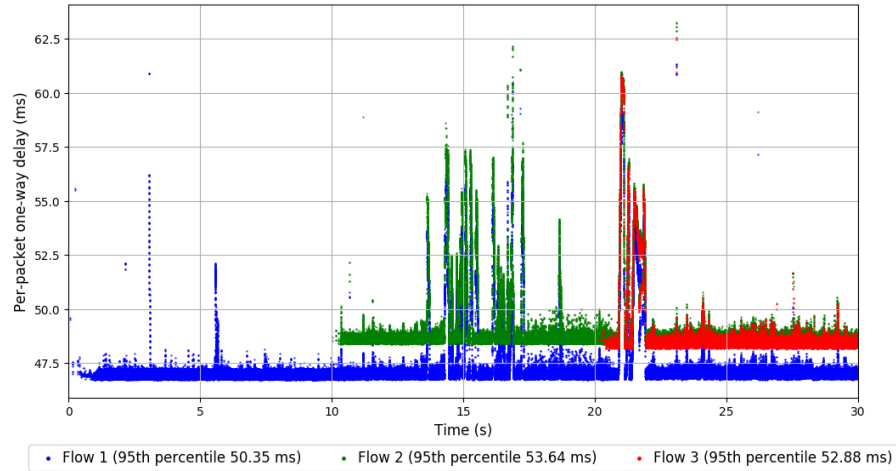
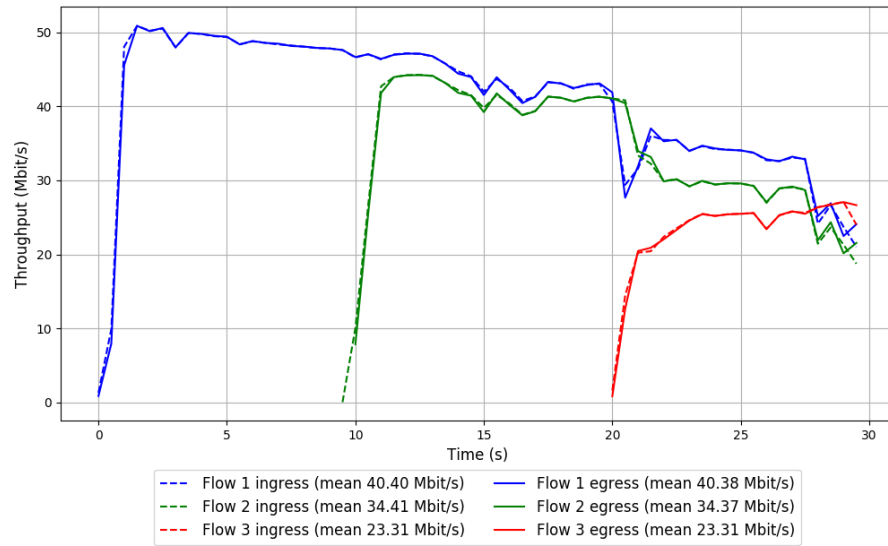
-- Flow 3:

Average throughput: 23.31 Mbit/s

95th percentile per-packet one-way delay: 52.884 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: Tue, 01 Aug 2017 00:11:59 +0000

End at: Tue, 01 Aug 2017 00:12:29 +0000

Local clock offset: 0.59 ms

Remote clock offset: -0.971 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:44:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.59 Mbit/s

95th percentile per-packet one-way delay: 55.673 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 41.99 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 25.91 Mbit/s

95th percentile per-packet one-way delay: 56.111 ms

Loss rate: 0.20%

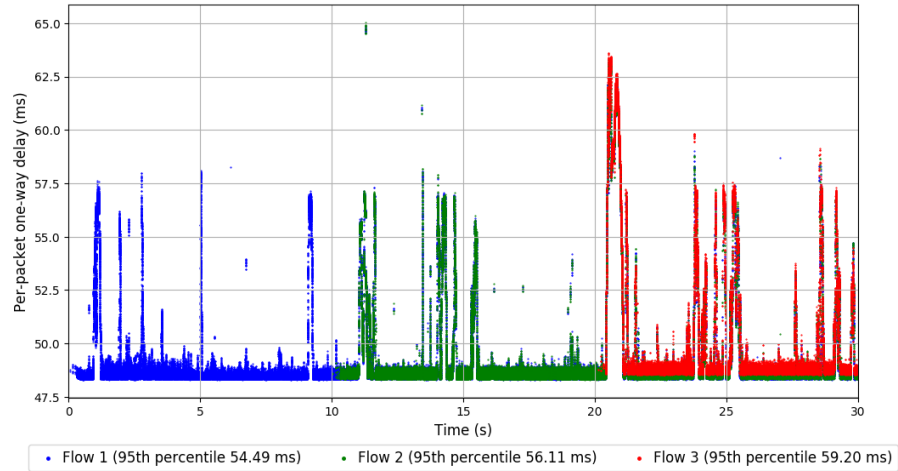
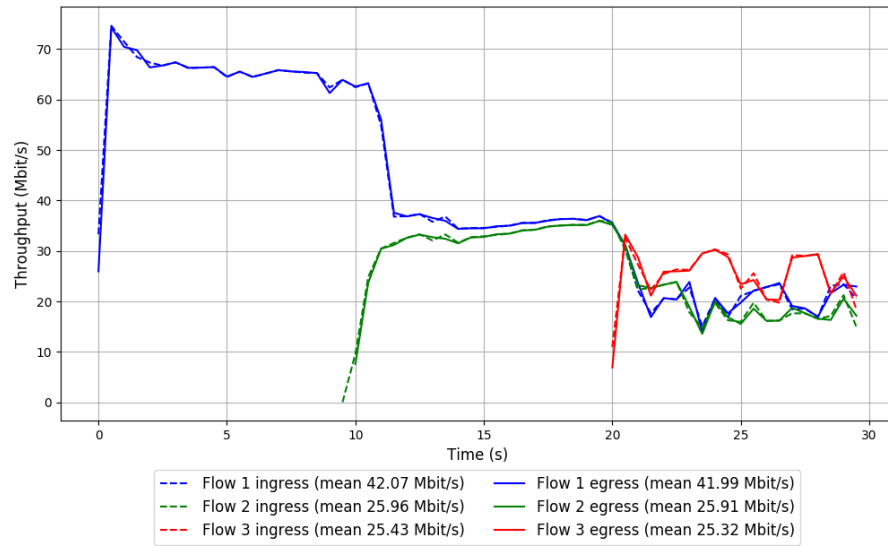
-- Flow 3:

Average throughput: 25.32 Mbit/s

95th percentile per-packet one-way delay: 59.198 ms

Loss rate: 0.42%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Tue, 01 Aug 2017 00:33:11 +0000

End at: Tue, 01 Aug 2017 00:33:41 +0000

Local clock offset: 0.8 ms

Remote clock offset: -0.98 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:44:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 55.280 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 39.64 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 56.596 ms

Loss rate: 0.31%

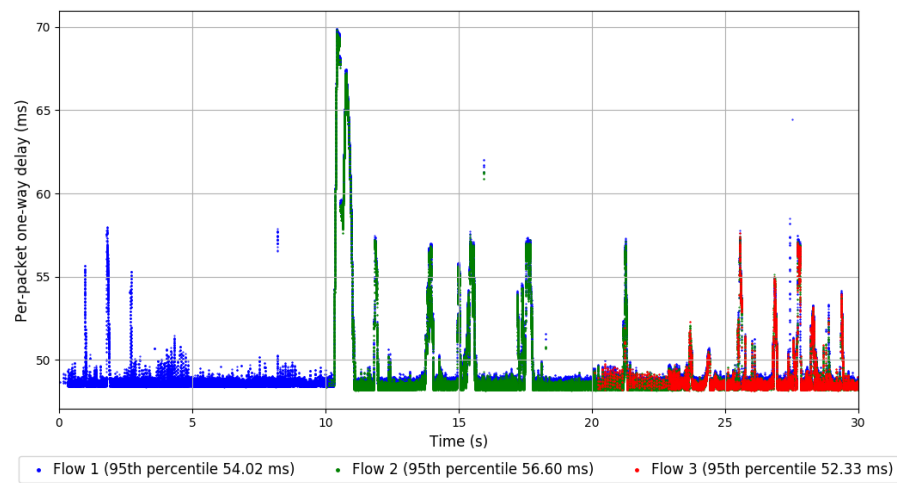
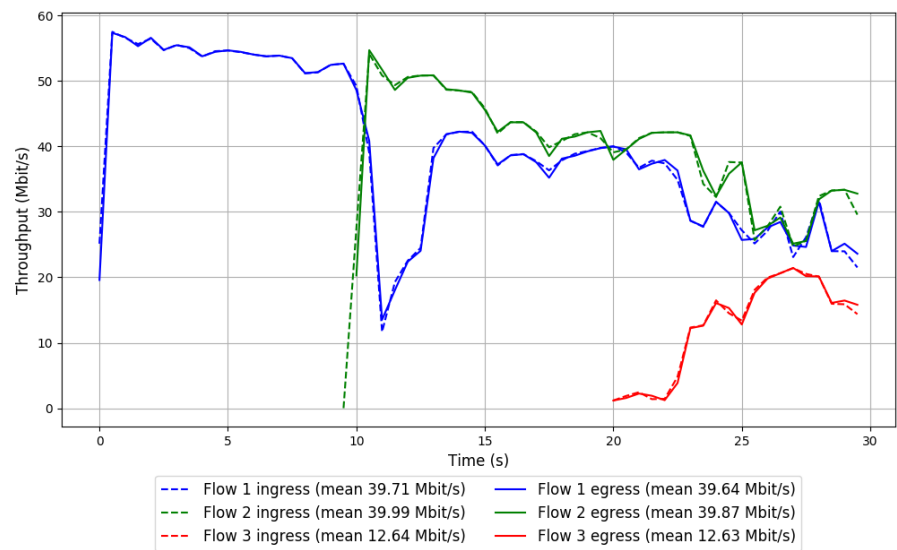
-- Flow 3:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 52.330 ms

Loss rate: 0.12%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: Tue, 01 Aug 2017 00:54:20 +0000

End at: Tue, 01 Aug 2017 00:54:50 +0000

Local clock offset: 0.818 ms

Remote clock offset: -1.008 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:44:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.99 Mbit/s

95th percentile per-packet one-way delay: 54.510 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 37.83 Mbit/s

95th percentile per-packet one-way delay: 54.112 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 55.180 ms

Loss rate: 0.29%

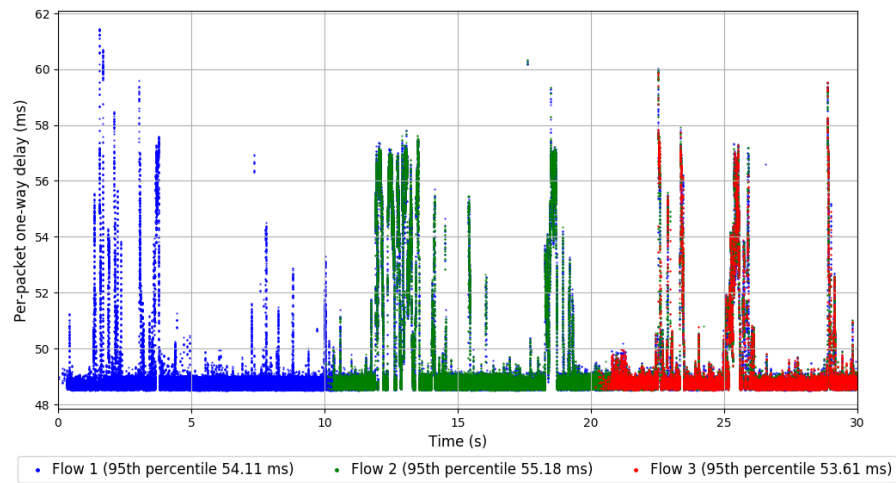
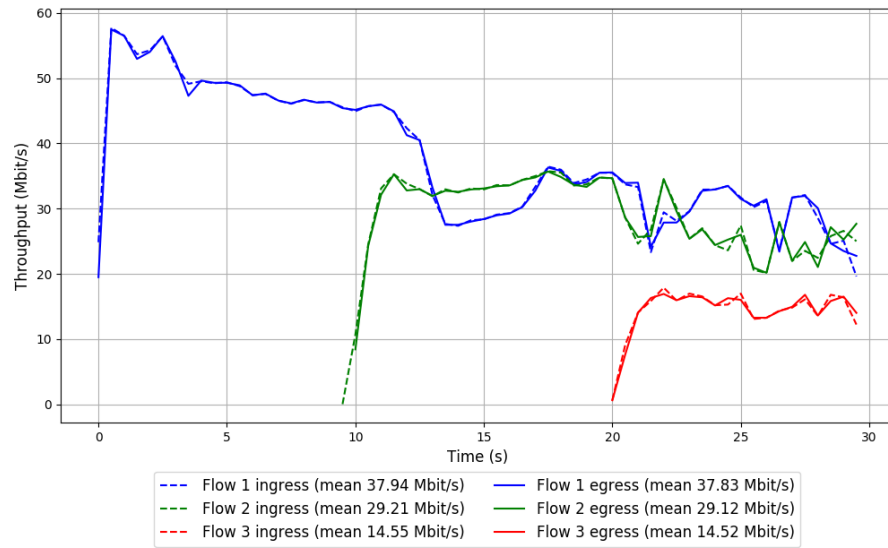
-- Flow 3:

Average throughput: 14.52 Mbit/s

95th percentile per-packet one-way delay: 53.611 ms

Loss rate: 0.20%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Tue, 01 Aug 2017 01:16:09 +0000

End at: Tue, 01 Aug 2017 01:16:39 +0000

Local clock offset: 0.827 ms

Remote clock offset: -1.219 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:44:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 30.66 Mbit/s

95th percentile per-packet one-way delay: 54.391 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 27.01 Mbit/s

95th percentile per-packet one-way delay: 54.899 ms

Loss rate: 0.28%

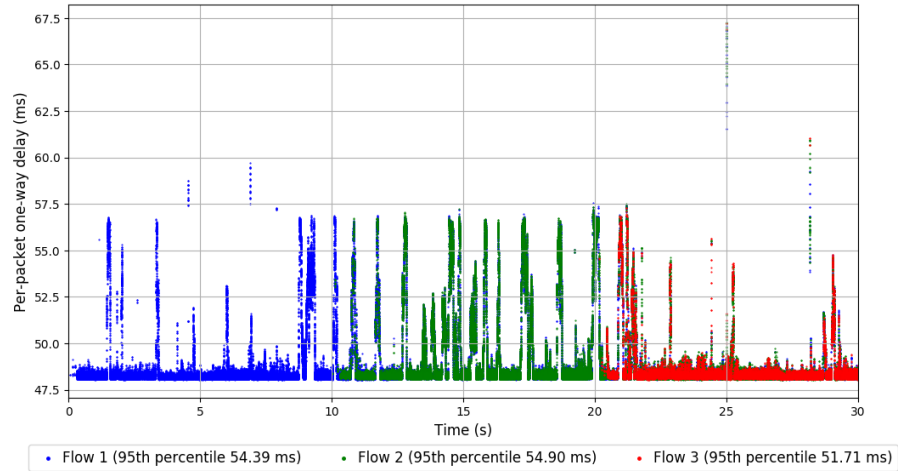
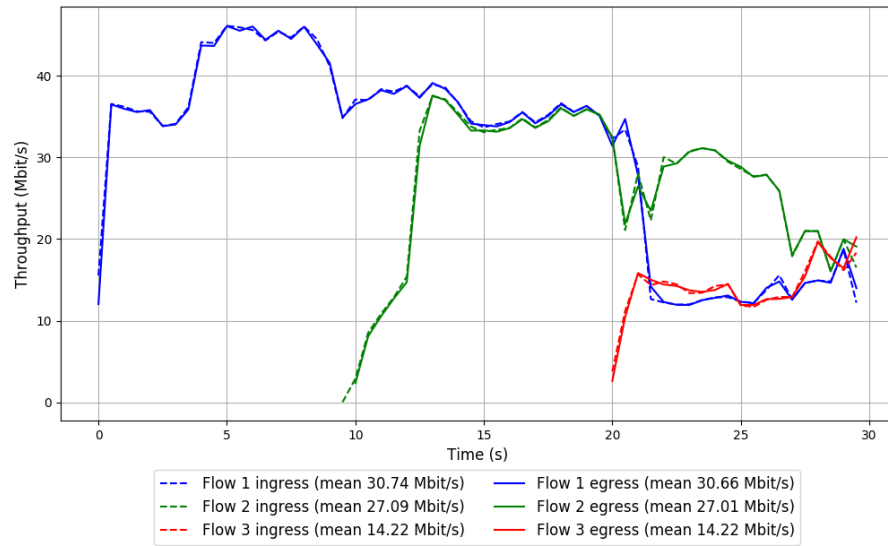
-- Flow 3:

Average throughput: 14.22 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.08%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Tue, 01 Aug 2017 01:38:33 +0000

End at: Tue, 01 Aug 2017 01:39:03 +0000

Local clock offset: 0.787 ms

Remote clock offset: 0.63 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:44:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.61 Mbit/s

95th percentile per-packet one-way delay: 57.770 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 57.642 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 35.75 Mbit/s

95th percentile per-packet one-way delay: 58.123 ms

Loss rate: 0.49%

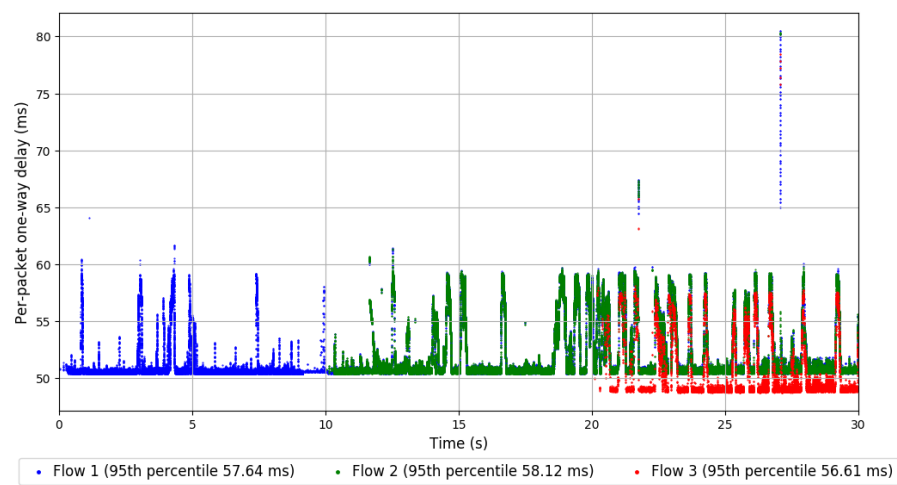
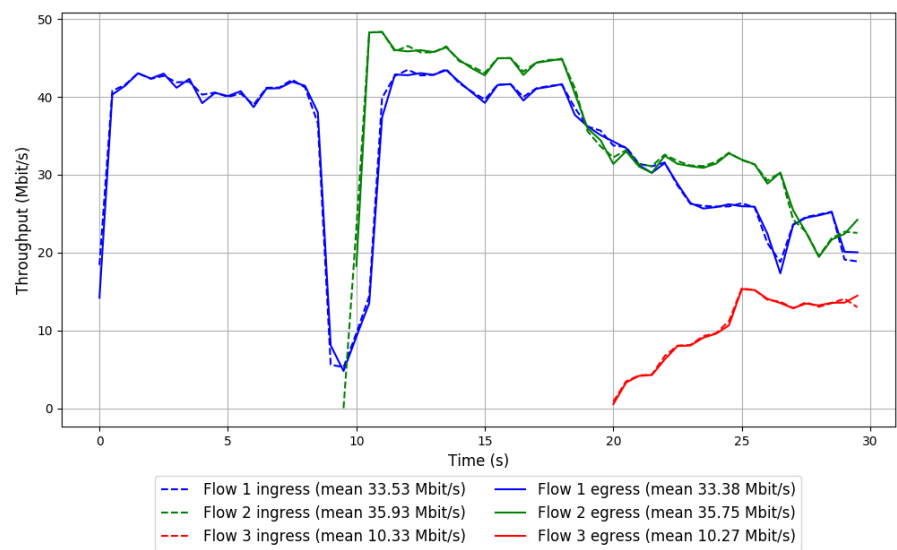
-- Flow 3:

Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 56.609 ms

Loss rate: 0.51%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Mon, 31 Jul 2017 22:17:29 +0000

End at: Mon, 31 Jul 2017 22:17:59 +0000

Local clock offset: 0.492 ms

Remote clock offset: -2.65 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:44:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.64 Mbit/s

95th percentile per-packet one-way delay: 77.634 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 35.97 Mbit/s

95th percentile per-packet one-way delay: 70.355 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 76.729 ms

Loss rate: 1.17%

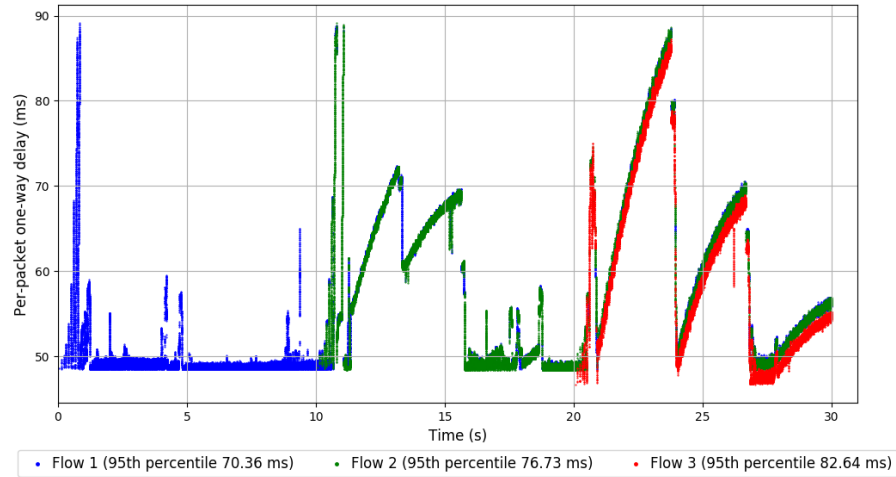
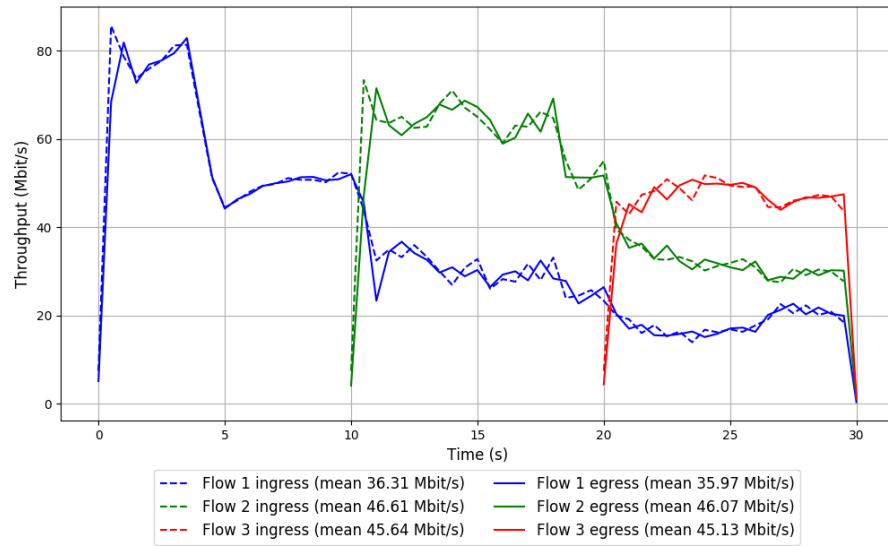
-- Flow 3:

Average throughput: 45.13 Mbit/s

95th percentile per-packet one-way delay: 82.637 ms

Loss rate: 1.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Mon, 31 Jul 2017 22:38:26 +0000

End at: Mon, 31 Jul 2017 22:38:57 +0000

Local clock offset: 0.503 ms

Remote clock offset: -1.974 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 78.810 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 48.22 Mbit/s

95th percentile per-packet one-way delay: 77.058 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 79.494 ms

Loss rate: 1.48%

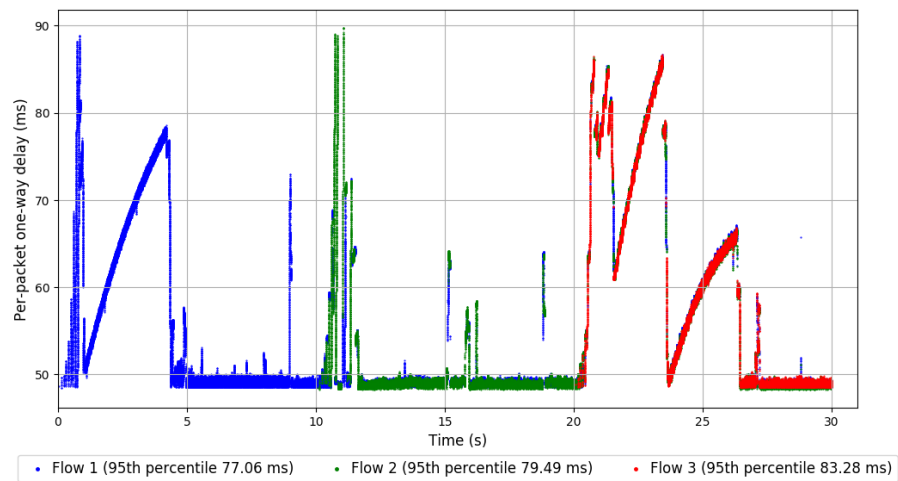
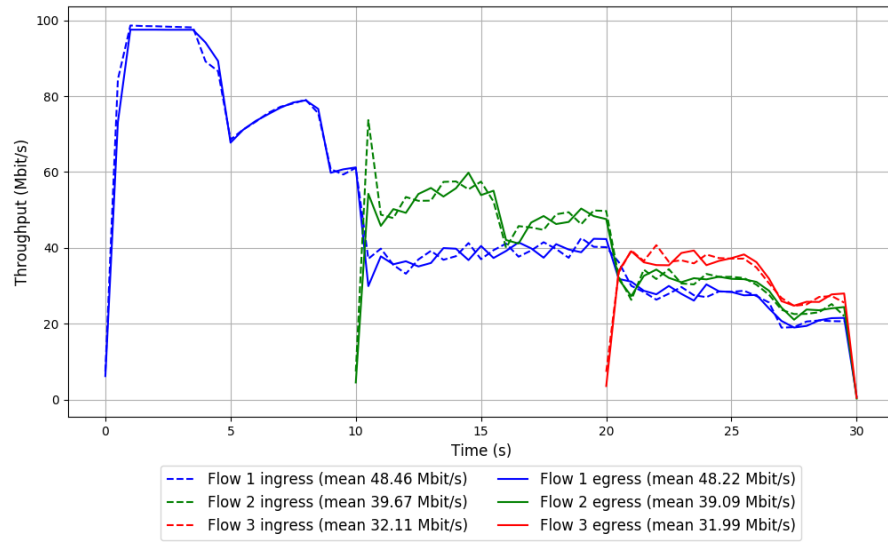
-- Flow 3:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 83.276 ms

Loss rate: 0.38%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Mon, 31 Jul 2017 22:59:24 +0000

End at: Mon, 31 Jul 2017 22:59:54 +0000

Local clock offset: 0.567 ms

Remote clock offset: -1.489 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.37 Mbit/s

95th percentile per-packet one-way delay: 80.045 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 18.74 Mbit/s

95th percentile per-packet one-way delay: 74.531 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 82.249 ms

Loss rate: 0.72%

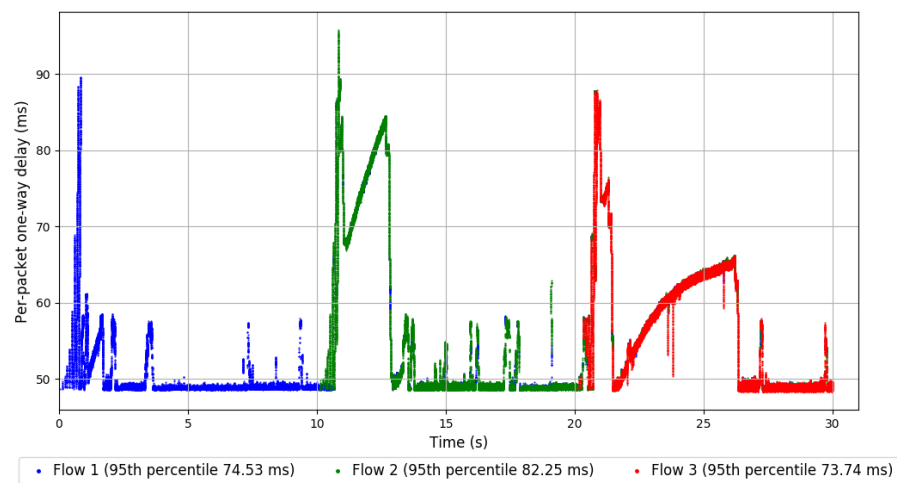
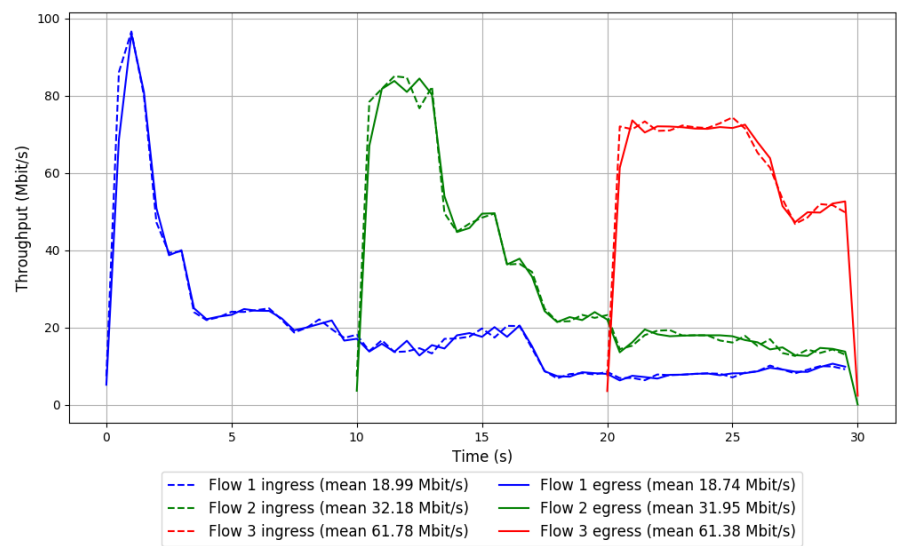
-- Flow 3:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 73.742 ms

Loss rate: 0.65%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Mon, 31 Jul 2017 23:20:13 +0000

End at: Mon, 31 Jul 2017 23:20:43 +0000

Local clock offset: 0.442 ms

Remote clock offset: 1.155 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 75.819 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 41.27 Mbit/s

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

Loss rate: 0.80%

-- Flow 2:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 77.522 ms

Loss rate: 0.61%

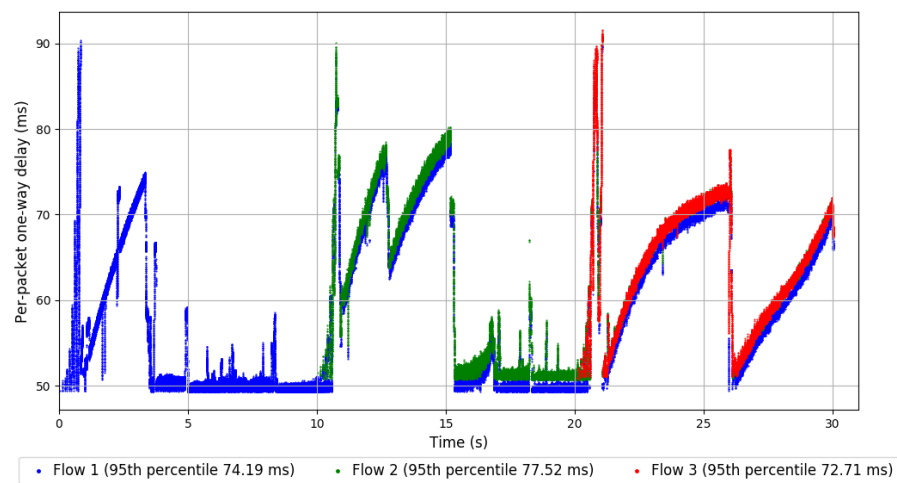
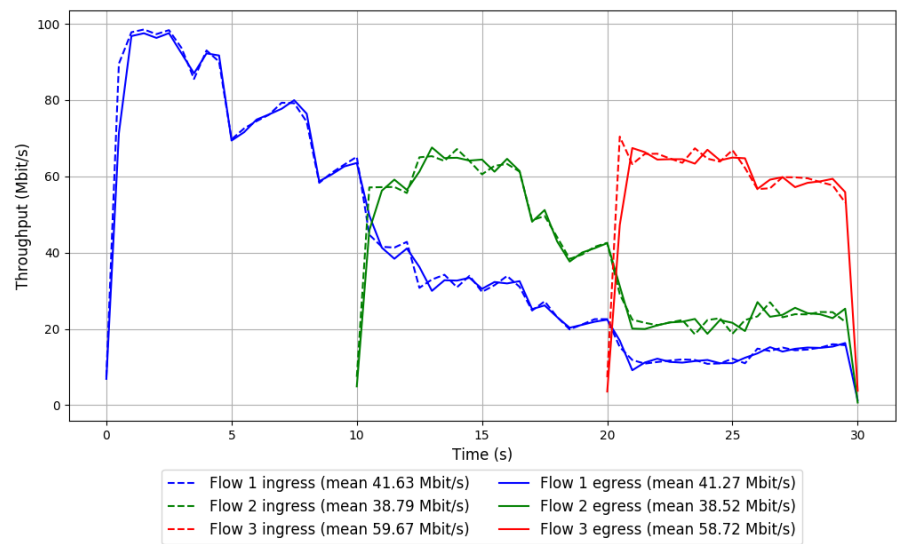
-- Flow 3:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 72.709 ms

Loss rate: 1.42%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: Mon, 31 Jul 2017 23:41:03 +0000

End at: Mon, 31 Jul 2017 23:41:33 +0000

Local clock offset: 0.384 ms

Remote clock offset: 1.295 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.98 Mbit/s

95th percentile per-packet one-way delay: 79.020 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 63.925 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 69.492 ms

Loss rate: 0.56%

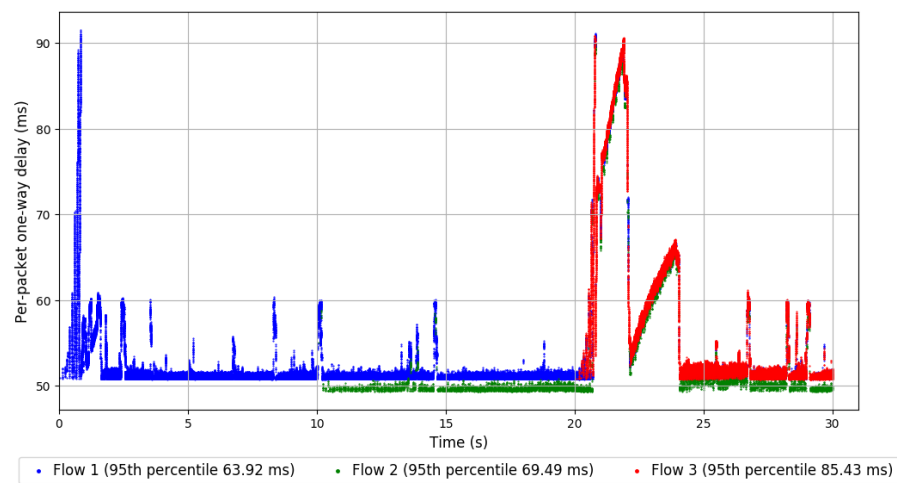
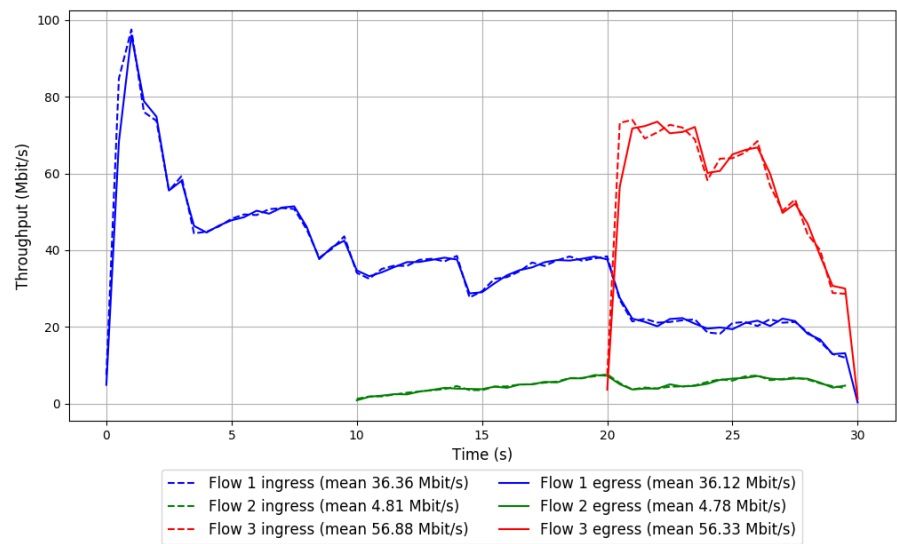
-- Flow 3:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 85.434 ms

Loss rate: 0.96%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 00:02:07 +0000

End at: Tue, 01 Aug 2017 00:02:37 +0000

Local clock offset: 0.524 ms

Remote clock offset: -1.087 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.15 Mbit/s

95th percentile per-packet one-way delay: 72.684 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 70.424 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 76.105 ms

Loss rate: 0.72%

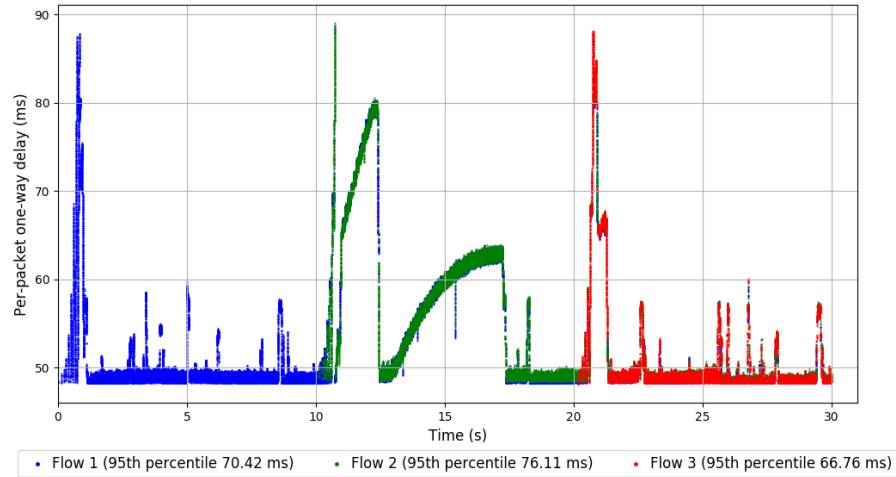
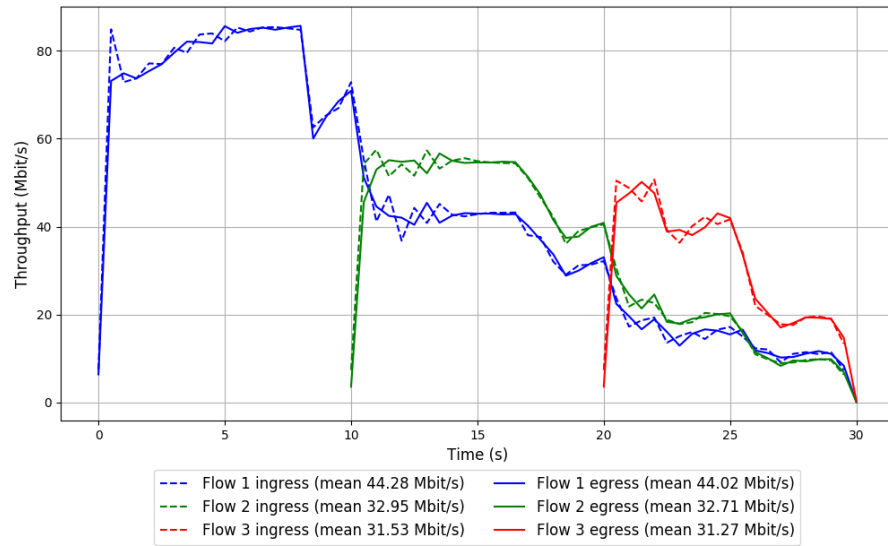
-- Flow 3:

Average throughput: 31.27 Mbit/s

95th percentile per-packet one-way delay: 66.760 ms

Loss rate: 0.83%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 00:23:30 +0000

End at: Tue, 01 Aug 2017 00:24:00 +0000

Local clock offset: 0.758 ms

Remote clock offset: -1.007 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.11 Mbit/s

95th percentile per-packet one-way delay: 65.442 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 60.893 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 68.559 ms

Loss rate: 2.47%

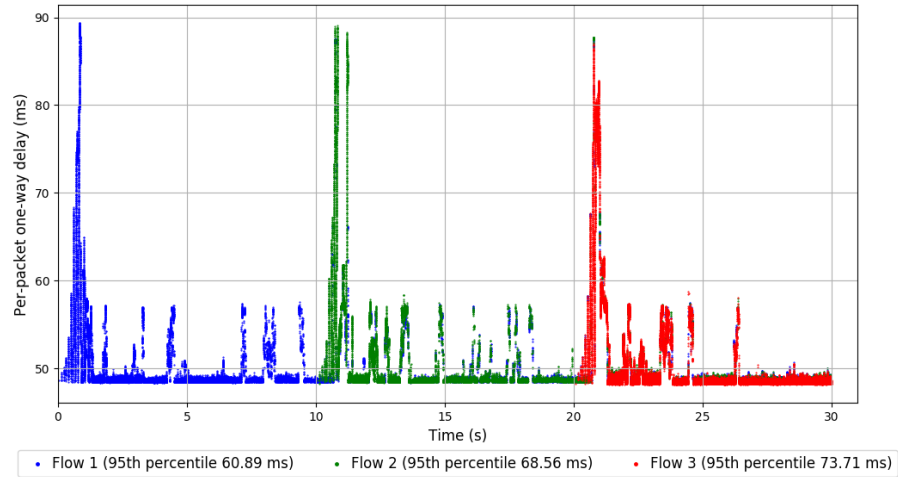
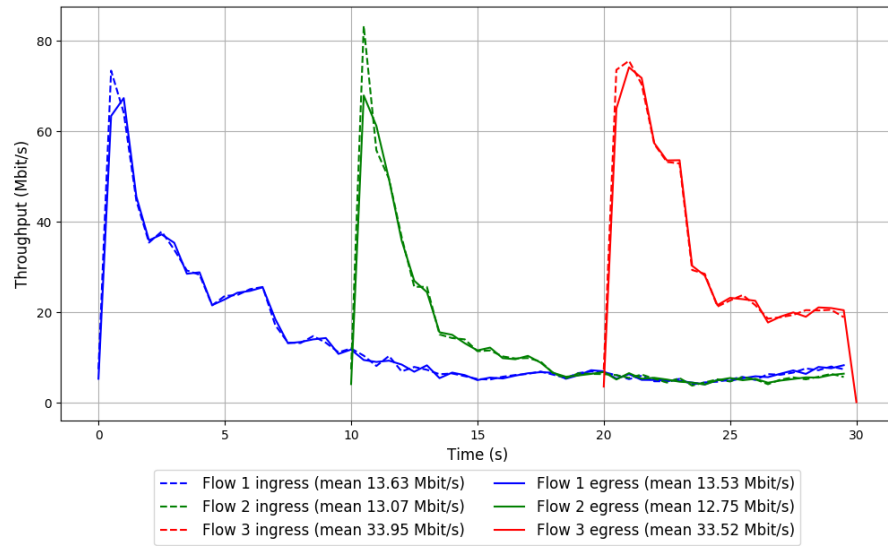
-- Flow 3:

Average throughput: 33.52 Mbit/s

95th percentile per-packet one-way delay: 73.711 ms

Loss rate: 1.26%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 00:44:42 +0000

End at: Tue, 01 Aug 2017 00:45:12 +0000

Local clock offset: 0.721 ms

Remote clock offset: 0.949 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 85.966 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 18.84 Mbit/s

95th percentile per-packet one-way delay: 79.806 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 29.32 Mbit/s

95th percentile per-packet one-way delay: 86.238 ms

Loss rate: 0.59%

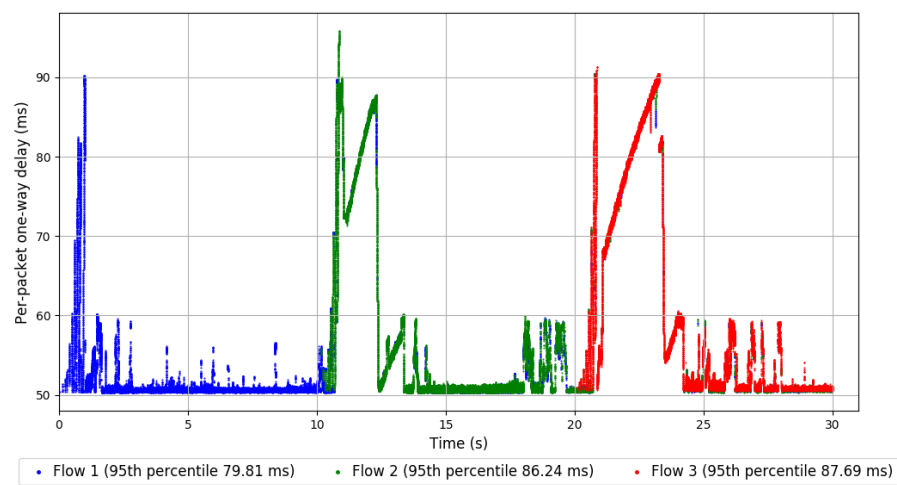
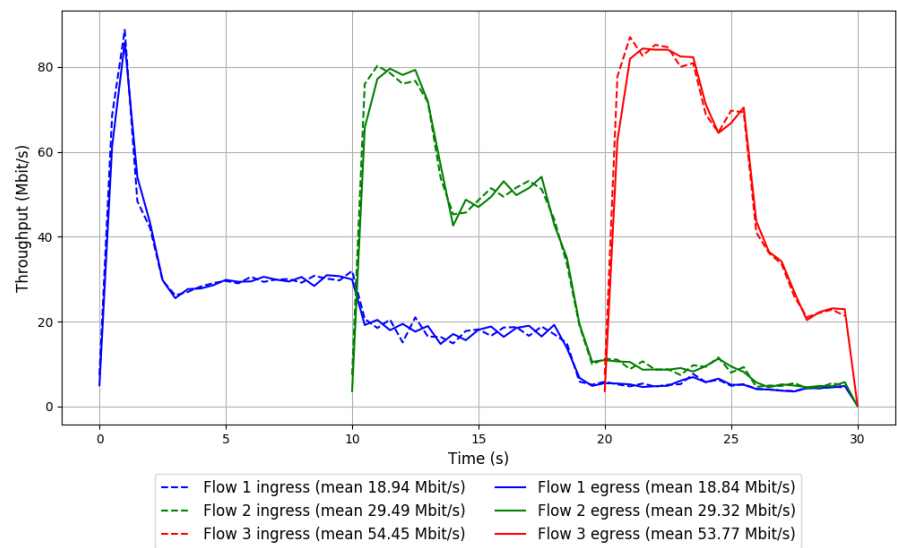
-- Flow 3:

Average throughput: 53.77 Mbit/s

95th percentile per-packet one-way delay: 87.695 ms

Loss rate: 1.25%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

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

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

Local clock offset: 0.697 ms

Remote clock offset: 0.949 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 61.605 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 21.33 Mbit/s

95th percentile per-packet one-way delay: 61.552 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 17.49 Mbit/s

95th percentile per-packet one-way delay: 62.216 ms

Loss rate: 0.47%

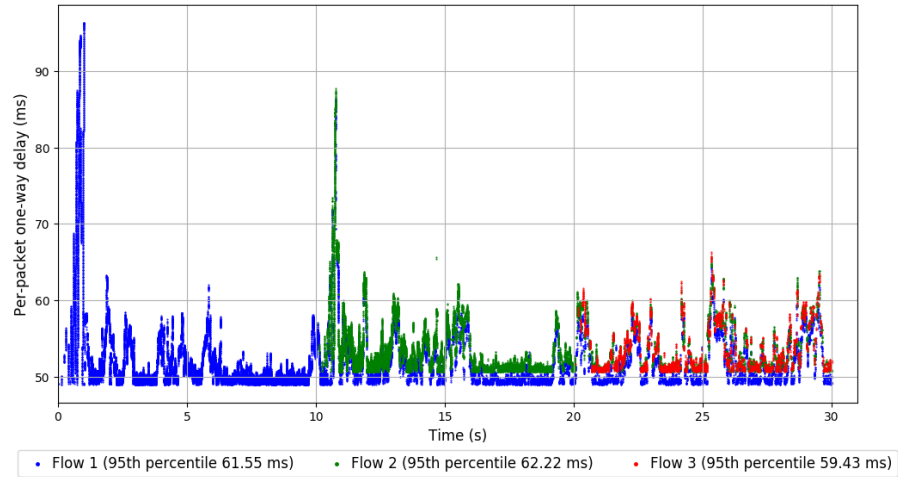
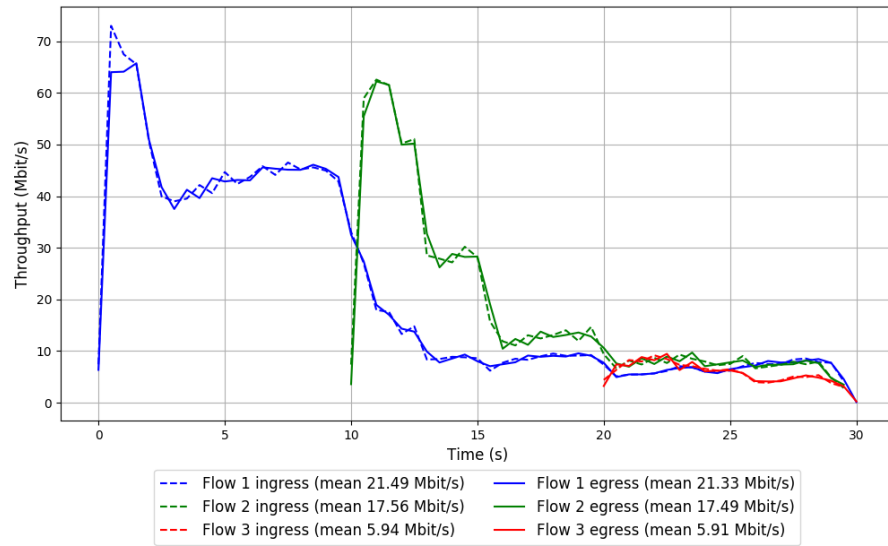
-- Flow 3:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 59.426 ms

Loss rate: 0.49%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 01:28:11 +0000

End at: Tue, 01 Aug 2017 01:28:41 +0000

Local clock offset: 0.727 ms

Remote clock offset: -1.181 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.14 Mbit/s

95th percentile per-packet one-way delay: 65.182 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 17.60 Mbit/s

95th percentile per-packet one-way delay: 61.575 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 71.280 ms

Loss rate: 0.48%

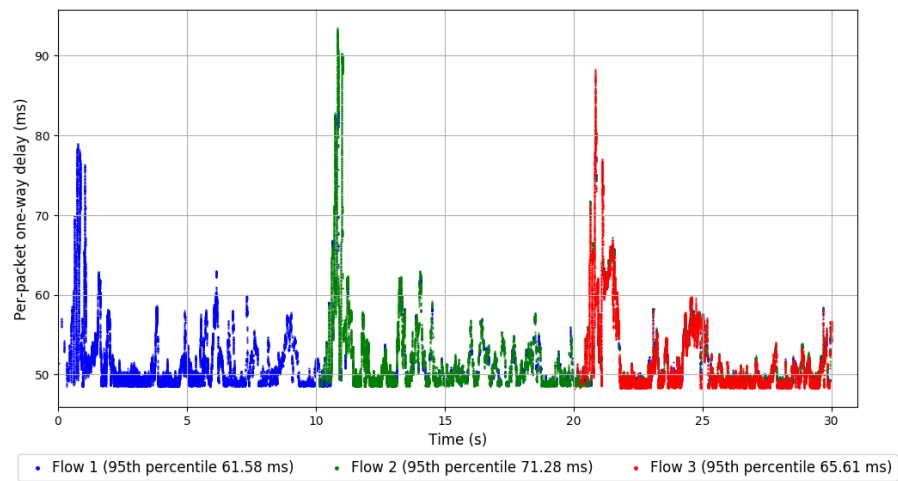
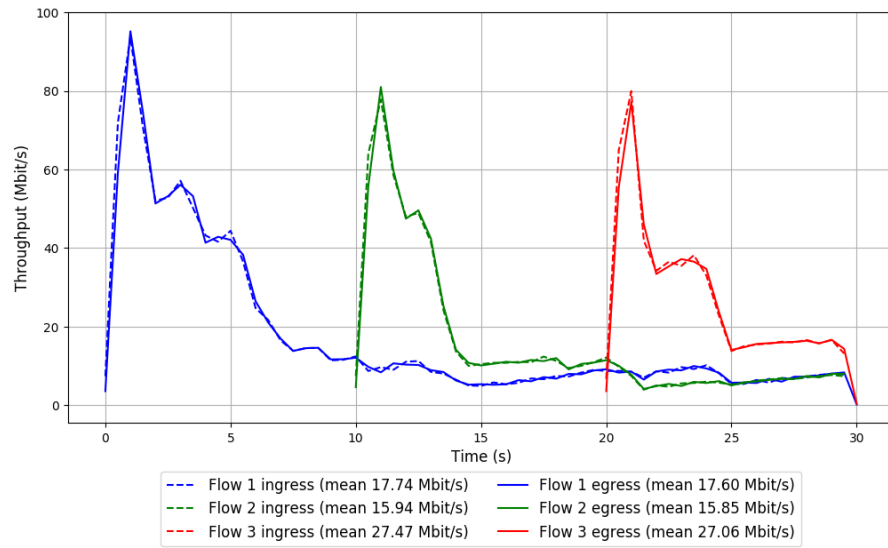
-- Flow 3:

Average throughput: 27.06 Mbit/s

95th percentile per-packet one-way delay: 65.615 ms

Loss rate: 1.60%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Mon, 31 Jul 2017 22:23:08 +0000

End at: Mon, 31 Jul 2017 22:23:38 +0000

Local clock offset: 0.489 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 52.206 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 51.997 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 52.341 ms

Loss rate: 0.14%

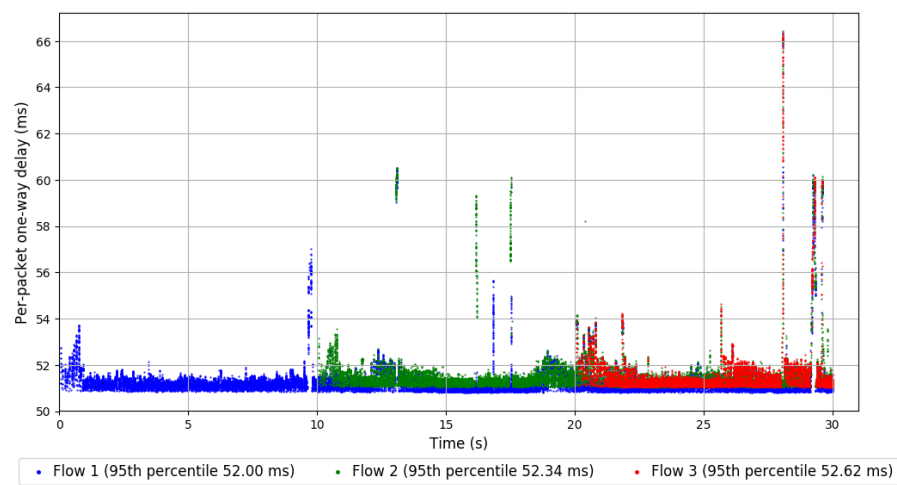
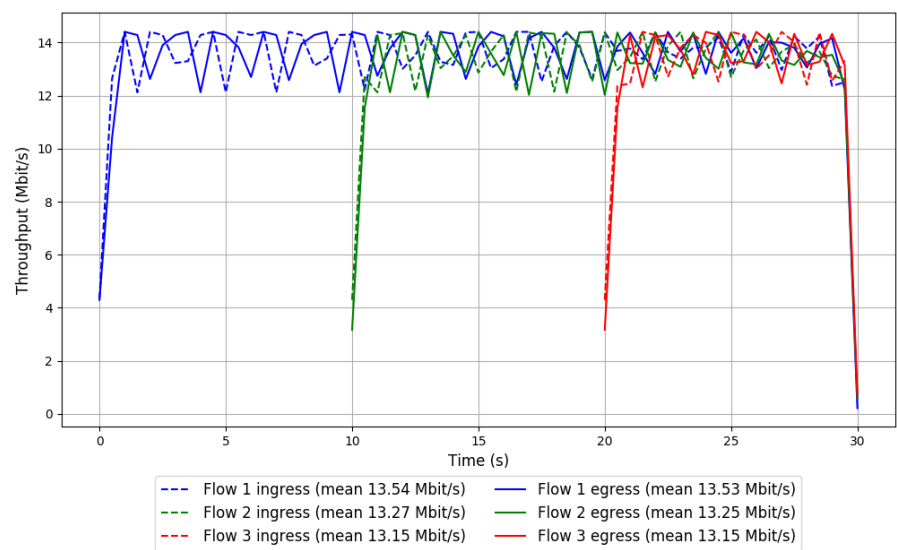
-- Flow 3:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 52.618 ms

Loss rate: 0.04%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Mon, 31 Jul 2017 22:44:05 +0000

End at: Mon, 31 Jul 2017 22:44:35 +0000

Local clock offset: 0.638 ms

Remote clock offset: -1.837 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 49.226 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 49.134 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 49.187 ms

Loss rate: 0.05%

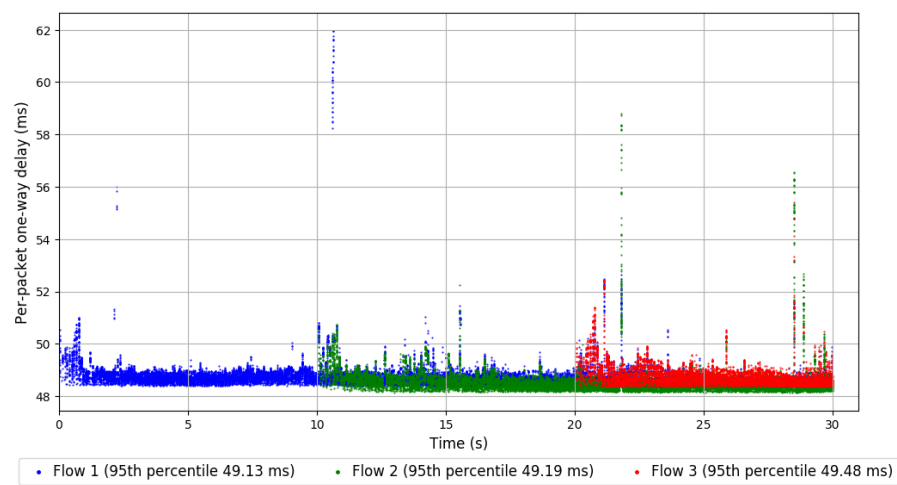
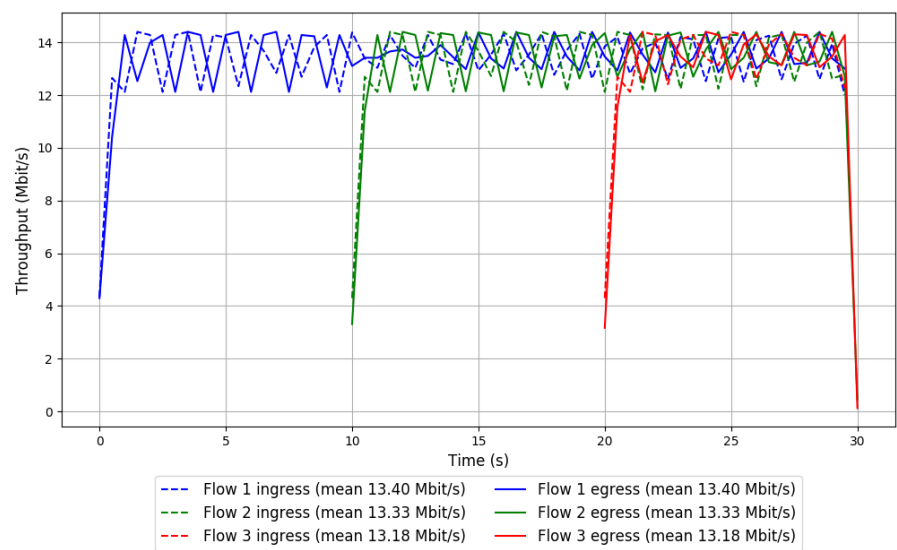
-- Flow 3:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 49.476 ms

Loss rate: 0.00%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Mon, 31 Jul 2017 23:05:01 +0000

End at: Mon, 31 Jul 2017 23:05:31 +0000

Local clock offset: 0.636 ms

Remote clock offset: 1.071 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.44 Mbit/s

95th percentile per-packet one-way delay: 55.842 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 56.815 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 13.17 Mbit/s

95th percentile per-packet one-way delay: 54.956 ms

Loss rate: 0.48%

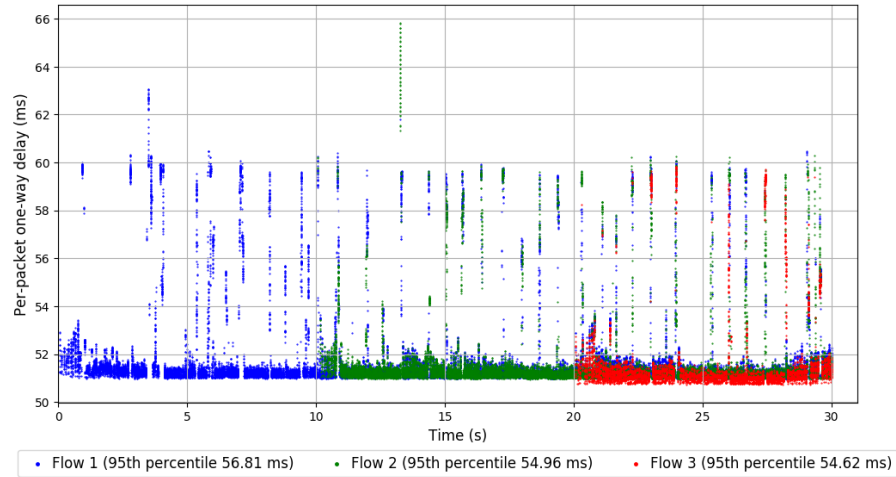
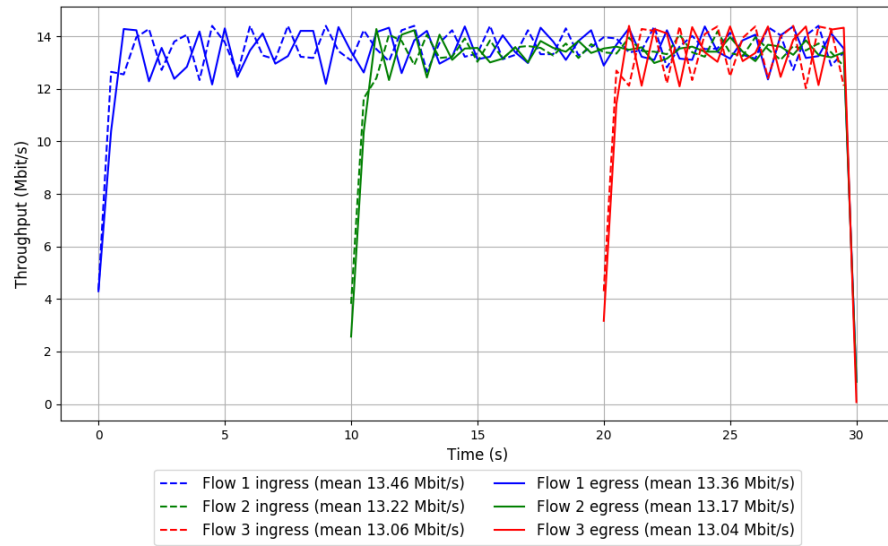
-- Flow 3:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 54.619 ms

Loss rate: 0.13%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: Mon, 31 Jul 2017 23:25:50 +0000

End at: Mon, 31 Jul 2017 23:26:20 +0000

Local clock offset: 0.392 ms

Remote clock offset: 0.684 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.82 Mbit/s

95th percentile per-packet one-way delay: 51.541 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 51.494 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 51.606 ms

Loss rate: 0.01%

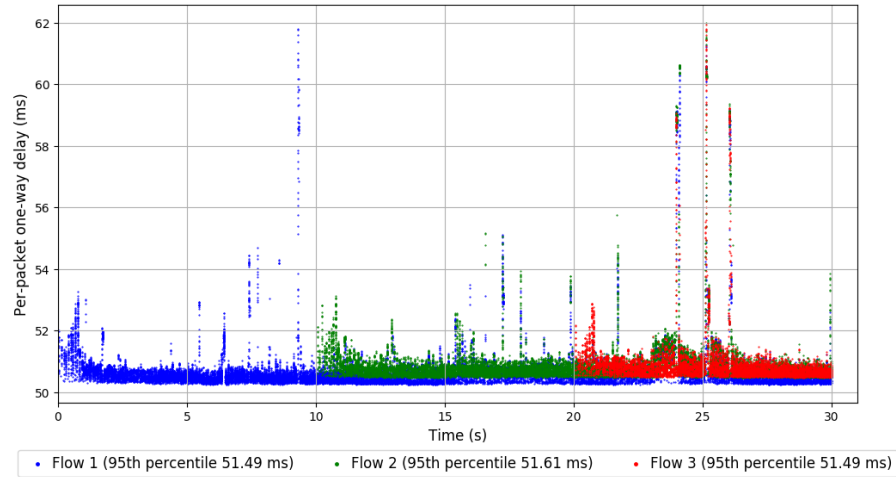
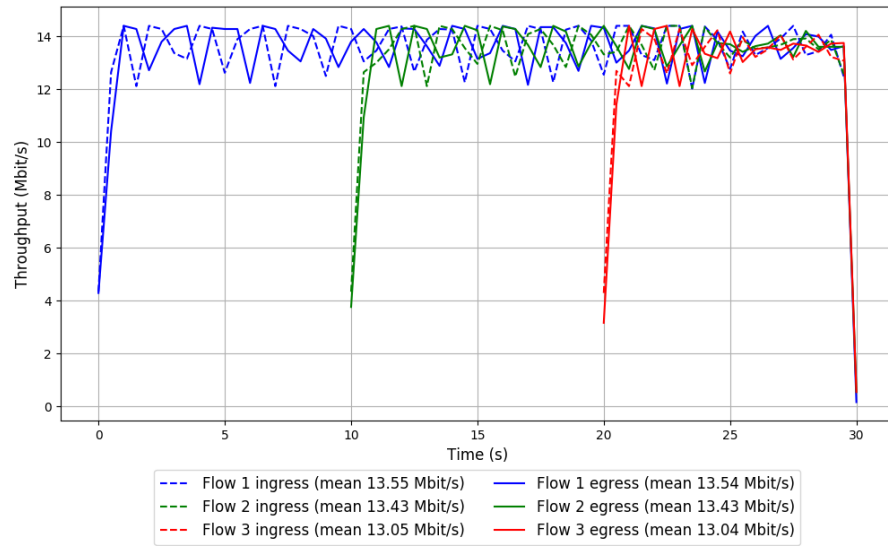
-- Flow 3:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 51.486 ms

Loss rate: 0.03%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: Mon, 31 Jul 2017 23:46:39 +0000

End at: Mon, 31 Jul 2017 23:47:09 +0000

Local clock offset: 0.406 ms

Remote clock offset: -1.133 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.54 Mbit/s

95th percentile per-packet one-way delay: 49.578 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 49.320 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 49.556 ms

Loss rate: 0.07%

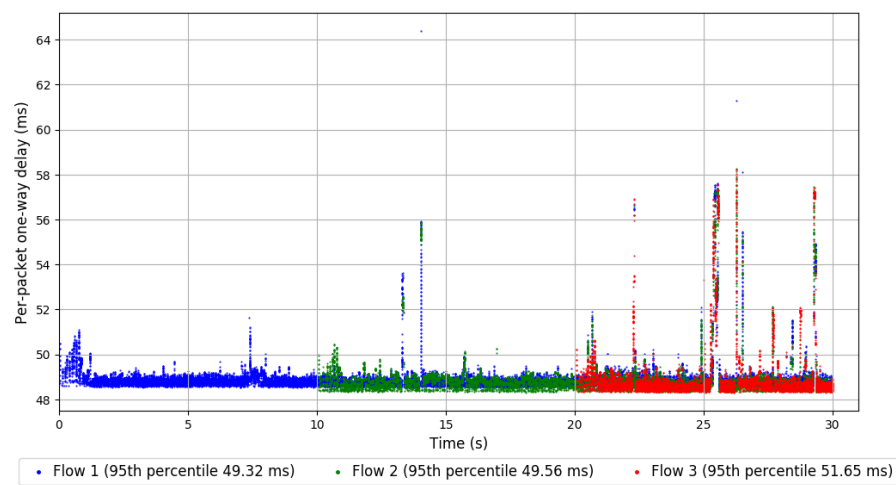
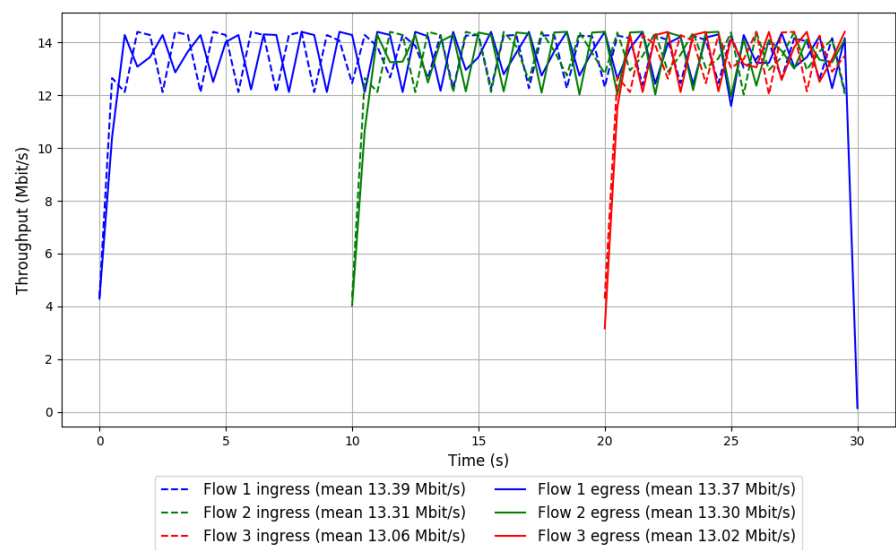
-- Flow 3:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 51.650 ms

Loss rate: 0.31%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 00:07:54 +0000

End at: Tue, 01 Aug 2017 00:08:24 +0000

Local clock offset: 0.559 ms

Remote clock offset: -1.099 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 50.332 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 49.260 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 51.236 ms

Loss rate: 0.16%

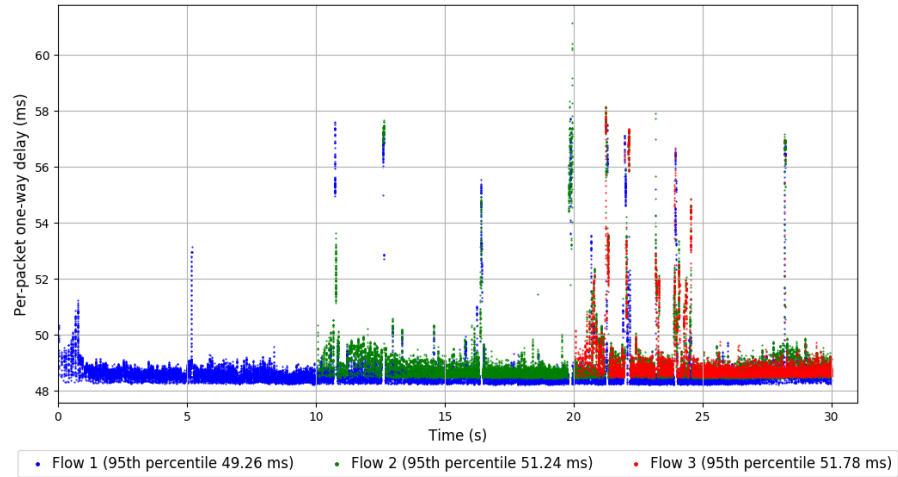
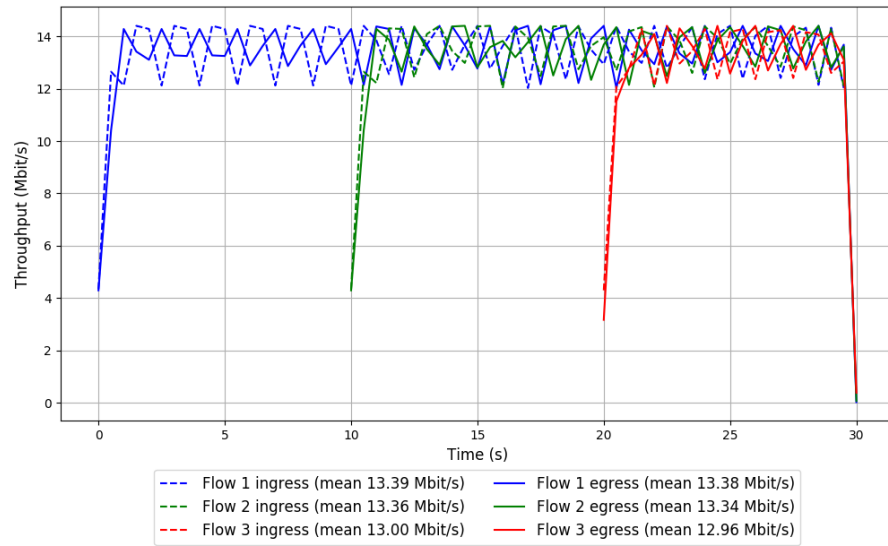
-- Flow 3:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 51.781 ms

Loss rate: 0.24%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 00:29:08 +0000

End at: Tue, 01 Aug 2017 00:29:38 +0000

Local clock offset: 0.682 ms

Remote clock offset: 1.742 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 53.534 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 53.070 ms

Loss rate: 0.10%

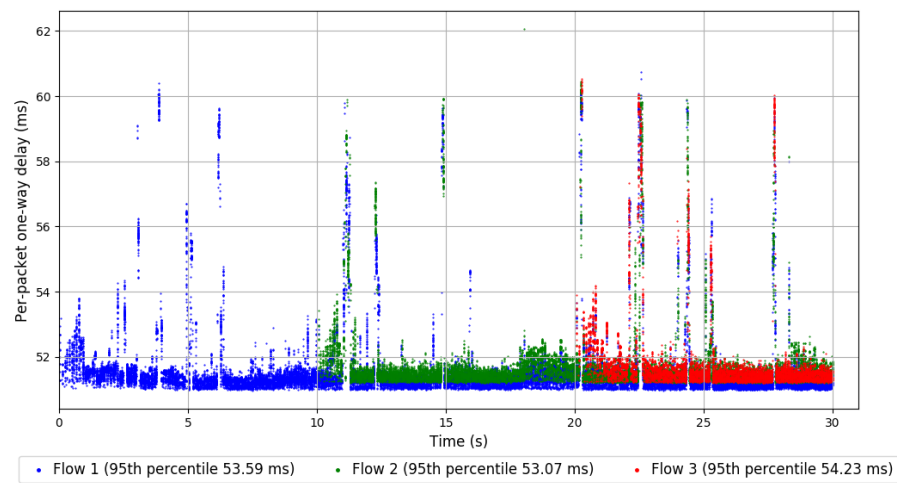
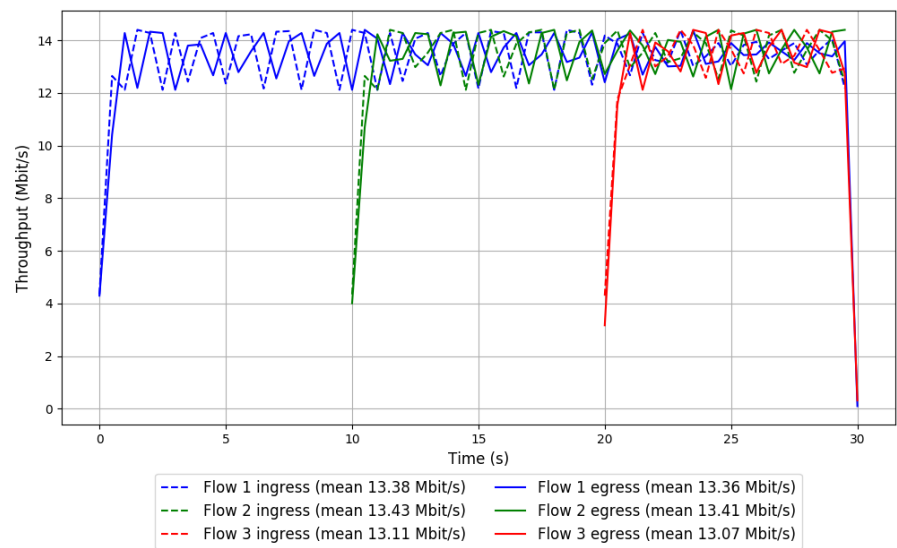
-- Flow 3:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 54.235 ms

Loss rate: 0.29%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 00:50:18 +0000

End at: Tue, 01 Aug 2017 00:50:48 +0000

Local clock offset: 0.764 ms

Remote clock offset: 1.38 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.48 Mbit/s

95th percentile per-packet one-way delay: 53.549 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 54.040 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 52.739 ms

Loss rate: 0.11%

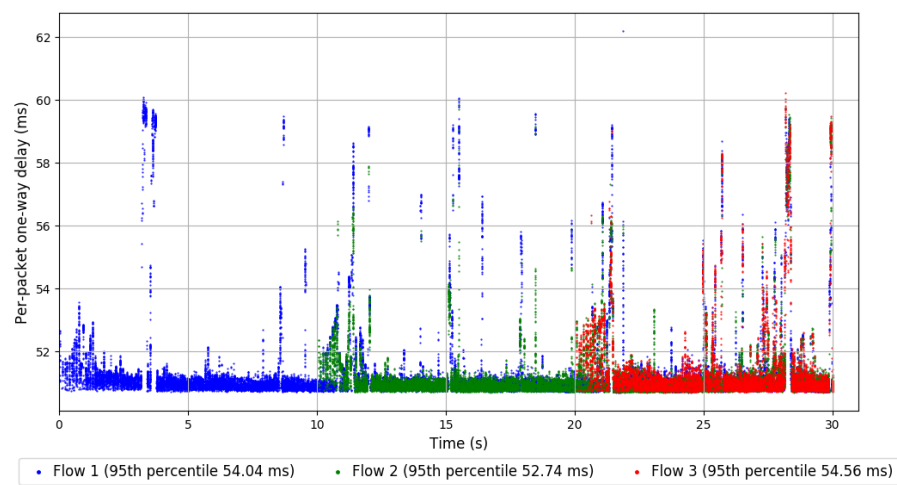
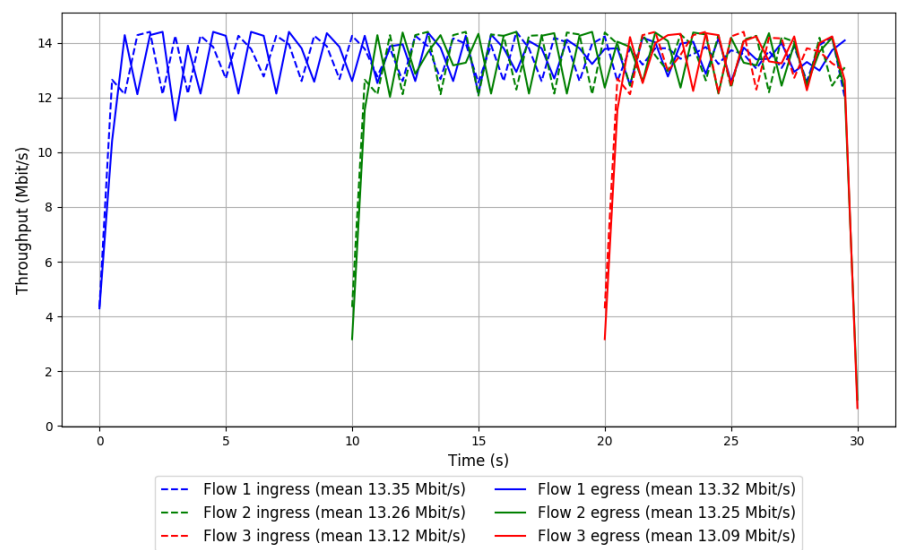
-- Flow 3:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 54.560 ms

Loss rate: 0.23%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 01:12:02 +0000

End at: Tue, 01 Aug 2017 01:12:32 +0000

Local clock offset: 0.758 ms

Remote clock offset: -1.085 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.17 Mbit/s

95th percentile per-packet one-way delay: 54.526 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 54.879 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 0.25%

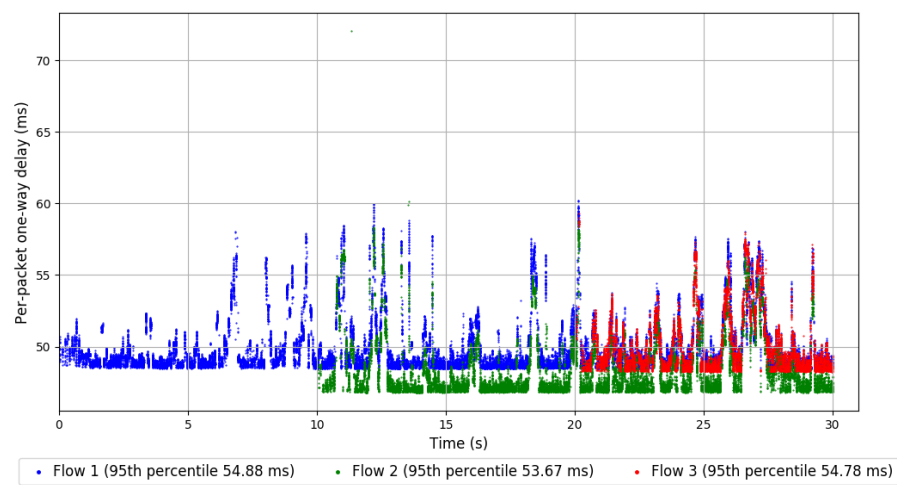
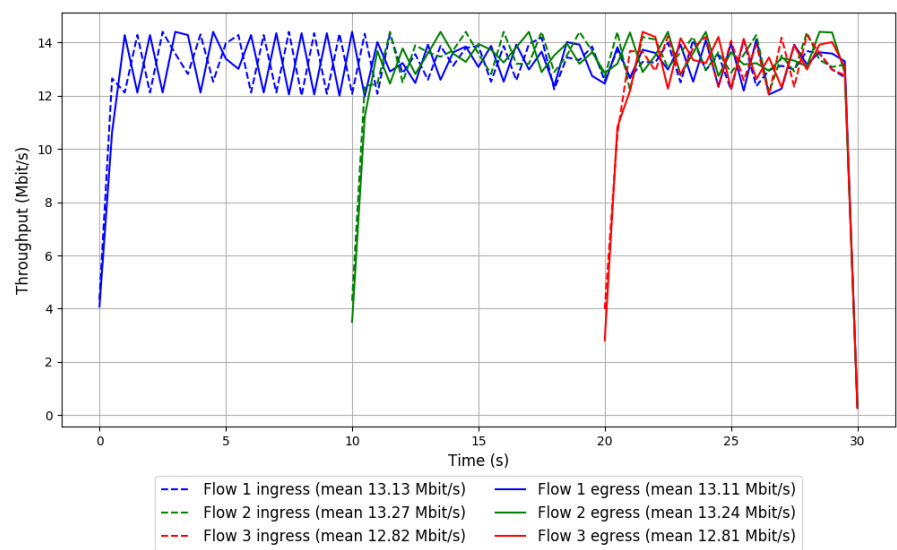
-- Flow 3:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 54.779 ms

Loss rate: 0.14%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 01:34:25 +0000

End at: Tue, 01 Aug 2017 01:34:55 +0000

Local clock offset: 0.801 ms

Remote clock offset: 0.709 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:45:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.31 Mbit/s

95th percentile per-packet one-way delay: 56.430 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 13.28 Mbit/s

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

Loss rate: 0.20%

-- Flow 2:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 56.360 ms

Loss rate: 0.31%

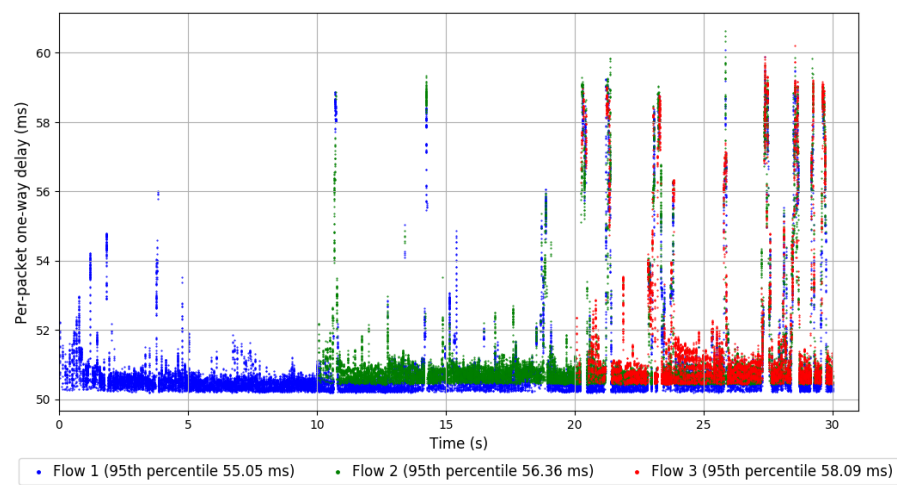
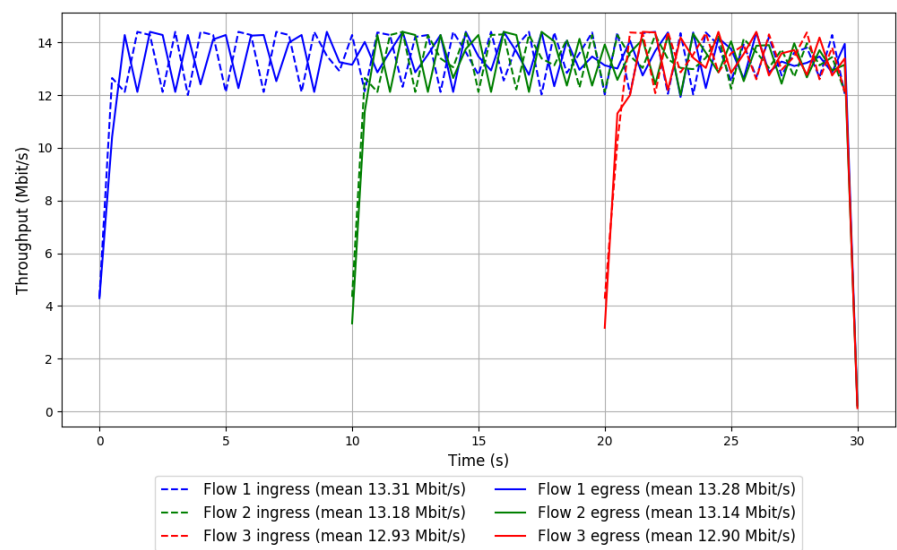
-- Flow 3:

Average throughput: 12.90 Mbit/s

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

Loss rate: 0.20%

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Mon, 31 Jul 2017 22:14:42 +0000

End at: Mon, 31 Jul 2017 22:15:12 +0000

Local clock offset: 0.505 ms

Remote clock offset: -0.55 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.40 Mbit/s

95th percentile per-packet one-way delay: 53.578 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 52.898 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 55.107 ms

Loss rate: 0.36%

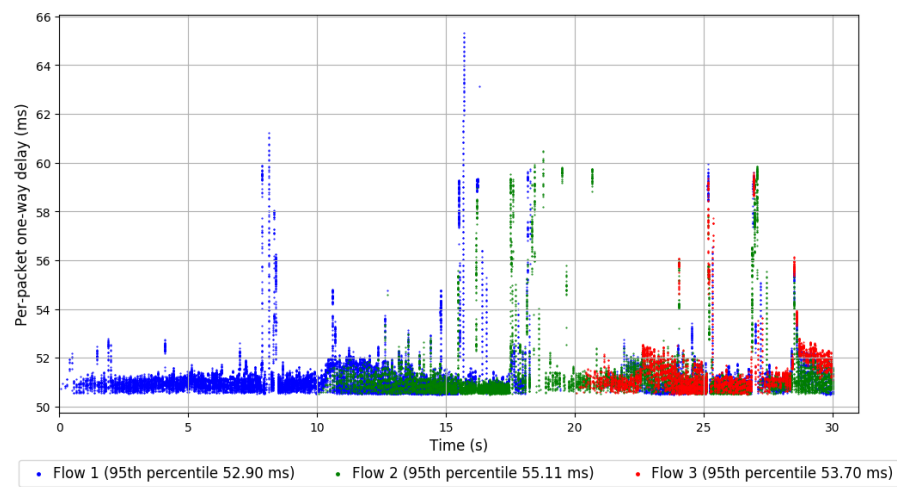
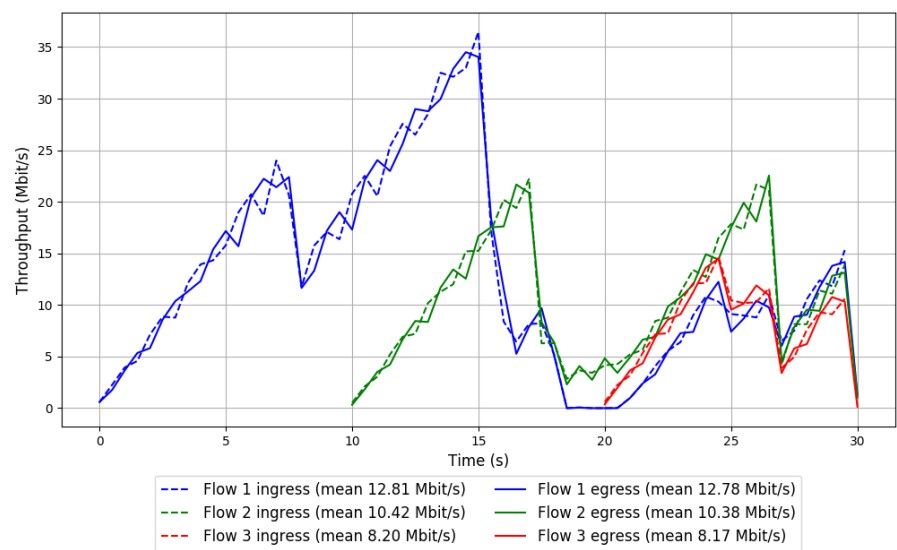
-- Flow 3:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.42%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Mon, 31 Jul 2017 22:35:39 +0000

End at: Mon, 31 Jul 2017 22:36:09 +0000

Local clock offset: 0.52 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 51.846 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 51.775 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 51.380 ms

Loss rate: 0.39%

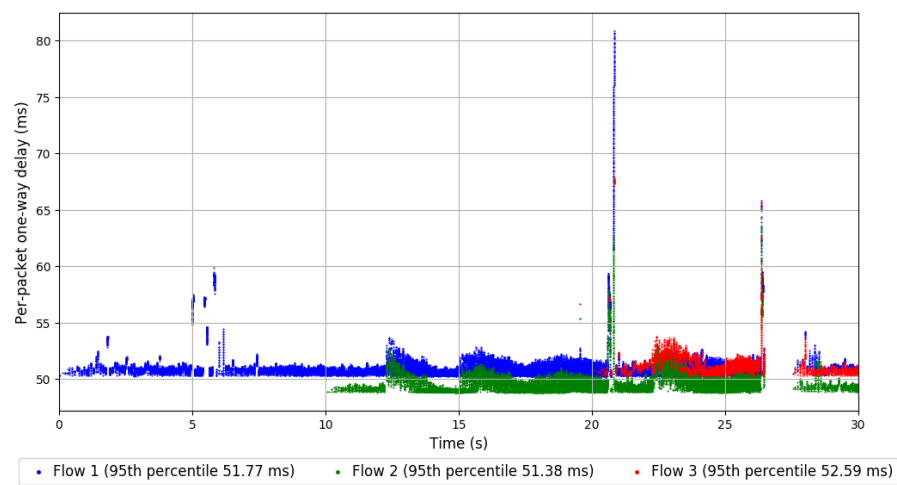
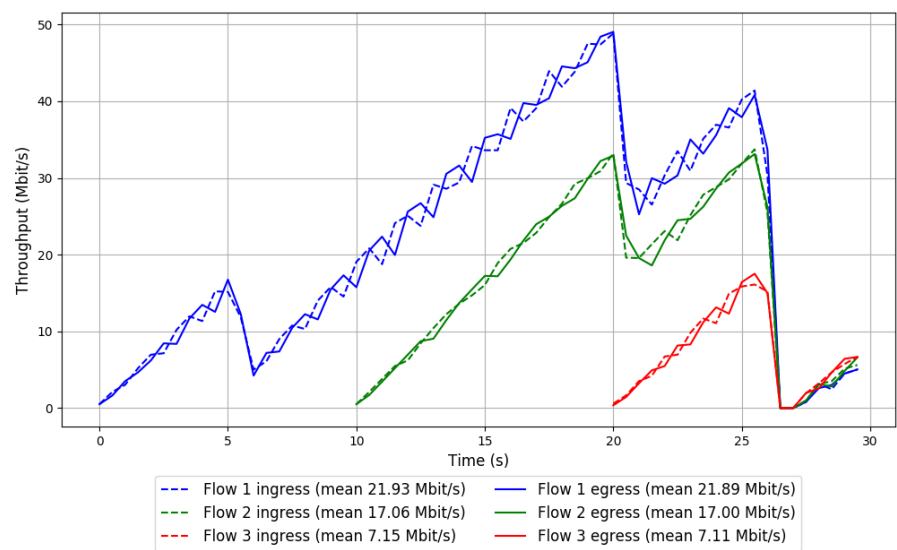
-- Flow 3:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 52.595 ms

Loss rate: 0.60%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Mon, 31 Jul 2017 22:56:36 +0000

End at: Mon, 31 Jul 2017 22:57:06 +0000

Local clock offset: 0.674 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:06 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 51.834 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 23.57 Mbit/s

95th percentile per-packet one-way delay: 51.700 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 16.28 Mbit/s

95th percentile per-packet one-way delay: 51.723 ms

Loss rate: 0.13%

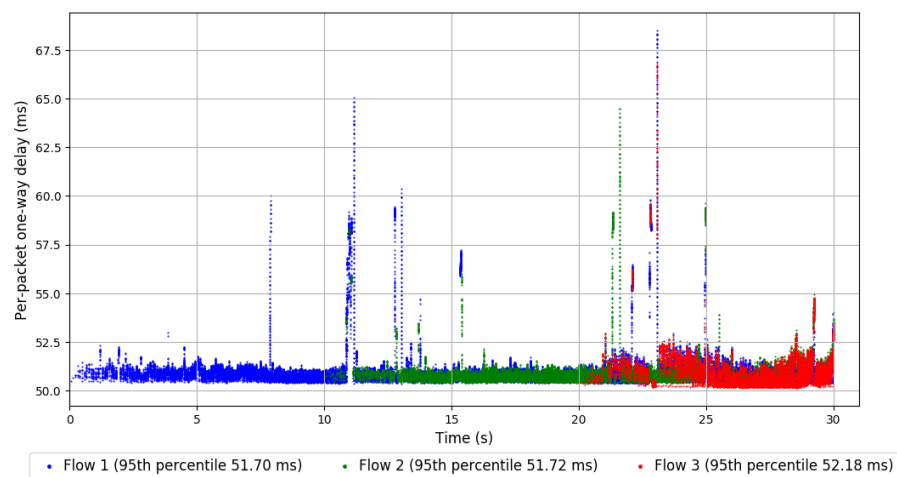
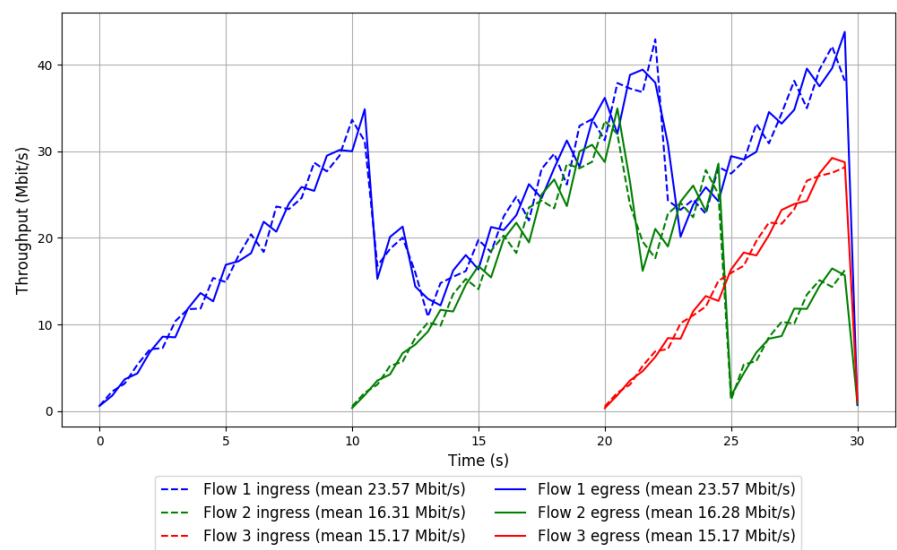
-- Flow 3:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 52.182 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Mon, 31 Jul 2017 23:17:25 +0000

End at: Mon, 31 Jul 2017 23:17:55 +0000

Local clock offset: 0.555 ms

Remote clock offset: -1.34 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 57.785 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 56.892 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 13.72 Mbit/s

95th percentile per-packet one-way delay: 58.123 ms

Loss rate: 0.14%

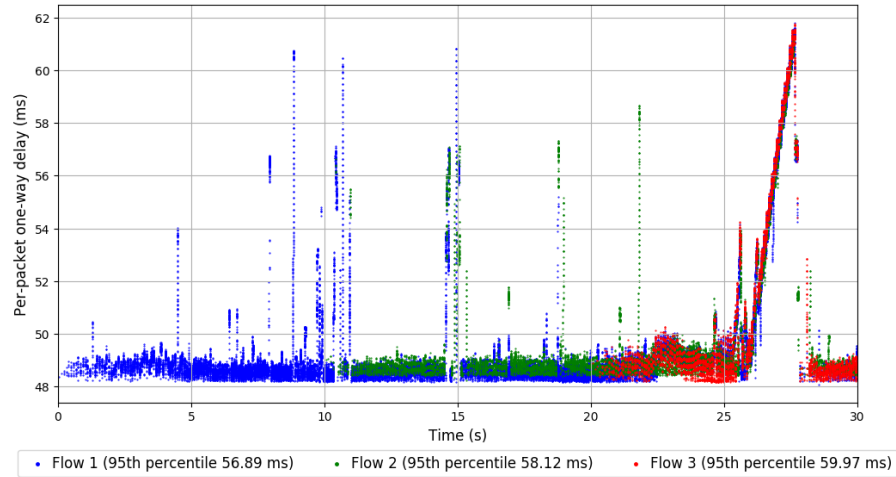
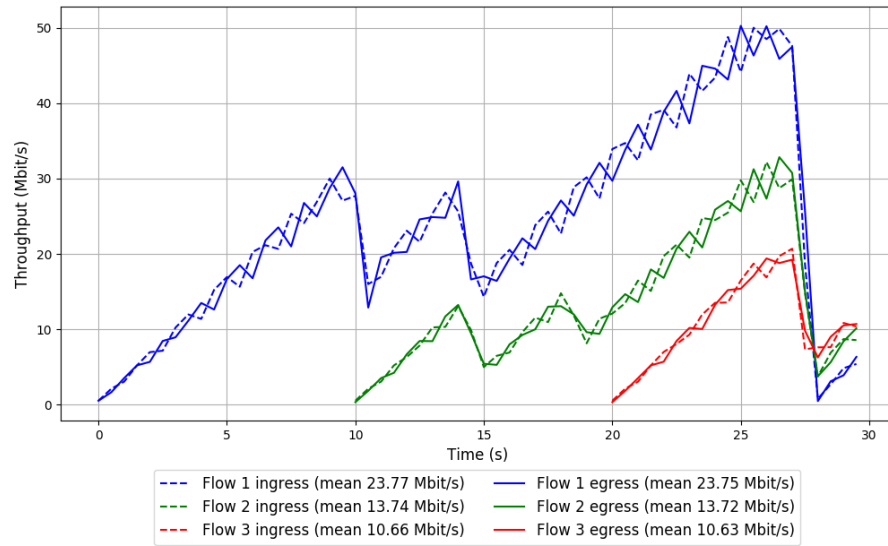
-- Flow 3:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 59.969 ms

Loss rate: 0.28%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: Mon, 31 Jul 2017 23:38:15 +0000

End at: Mon, 31 Jul 2017 23:38:45 +0000

Local clock offset: 0.385 ms

Remote clock offset: 1.248 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.48 Mbit/s

95th percentile per-packet one-way delay: 71.638 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 35.97 Mbit/s

95th percentile per-packet one-way delay: 69.921 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 72.110 ms

Loss rate: 0.04%

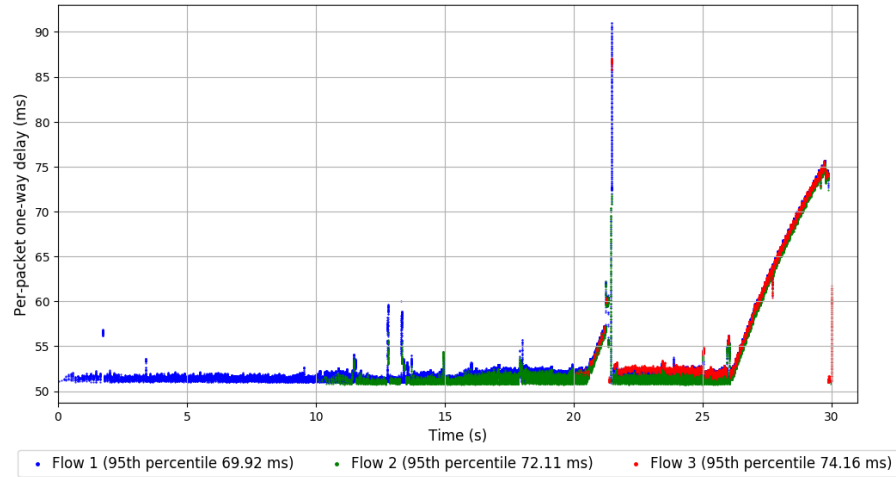
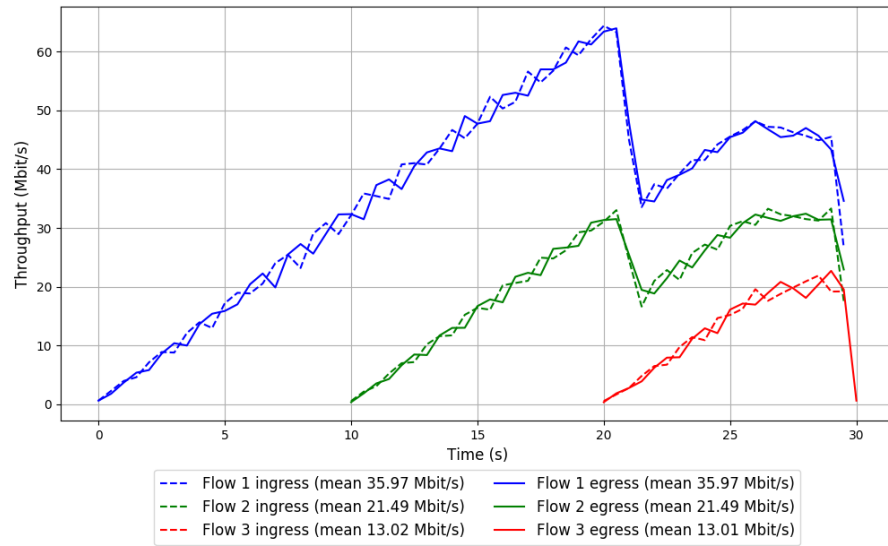
-- Flow 3:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 74.156 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Mon, 31 Jul 2017 23:59:10 +0000

End at: Mon, 31 Jul 2017 23:59:40 +0000

Local clock offset: 0.565 ms

Remote clock offset: 1.416 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 52.493 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 16.56 Mbit/s

95th percentile per-packet one-way delay: 52.036 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 53.112 ms

Loss rate: 0.11%

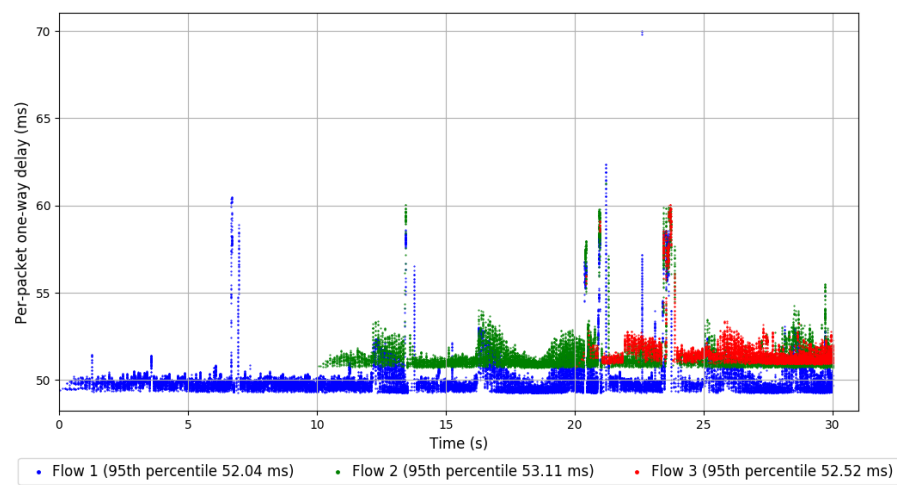
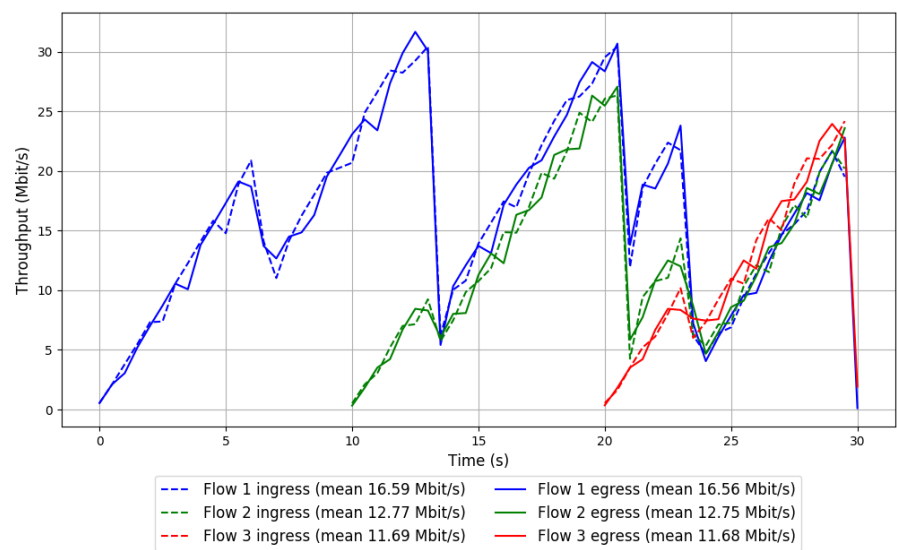
-- Flow 3:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 52.517 ms

Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 00:20:42 +0000

End at: Tue, 01 Aug 2017 00:21:12 +0000

Local clock offset: 0.632 ms

Remote clock offset: -1.035 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 51.916 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 51.949 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 51.624 ms

Loss rate: 0.34%

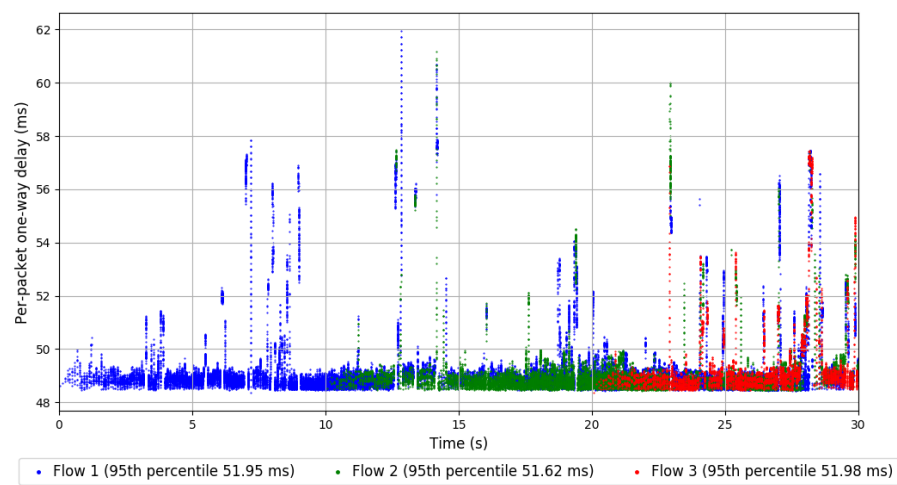
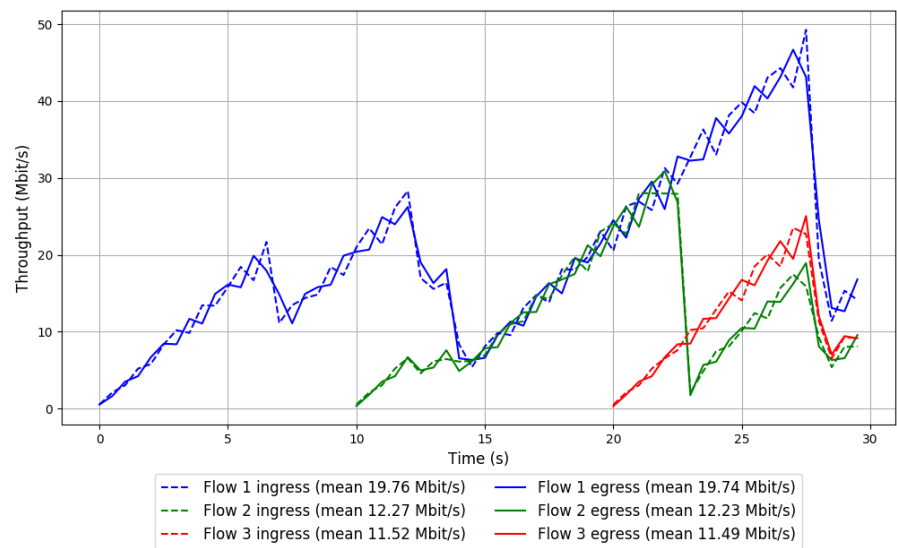
-- Flow 3:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 51.978 ms

Loss rate: 0.22%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 00:41:52 +0000

End at: Tue, 01 Aug 2017 00:42:22 +0000

Local clock offset: 0.813 ms

Remote clock offset: -1.076 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 66.350 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 65.897 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 66.968 ms

Loss rate: 0.06%

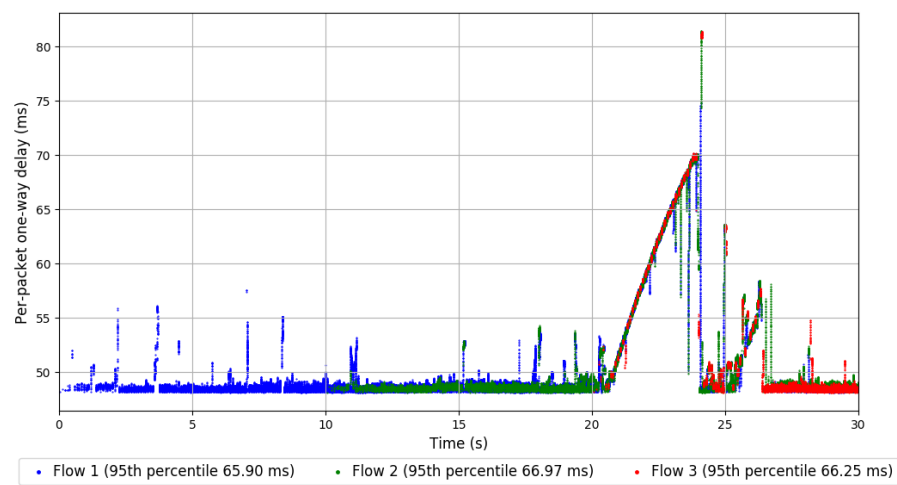
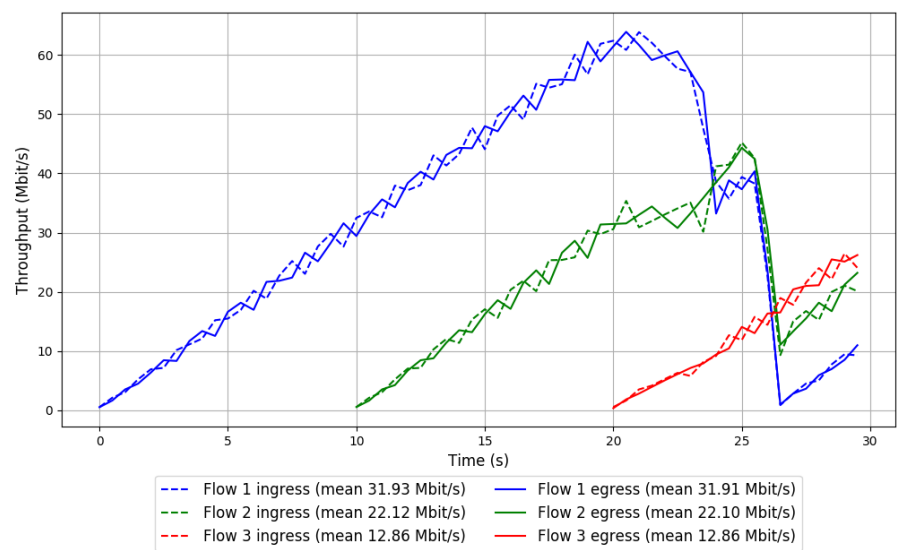
-- Flow 3:

Average throughput: 12.86 Mbit/s

95th percentile per-packet one-way delay: 66.246 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

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

End at: Tue, 01 Aug 2017 01:03:35 +0000

Local clock offset: 0.738 ms

Remote clock offset: 1.347 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 56.163 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 14.24 Mbit/s

95th percentile per-packet one-way delay: 56.174 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 10.32 Mbit/s

95th percentile per-packet one-way delay: 55.151 ms

Loss rate: 0.33%

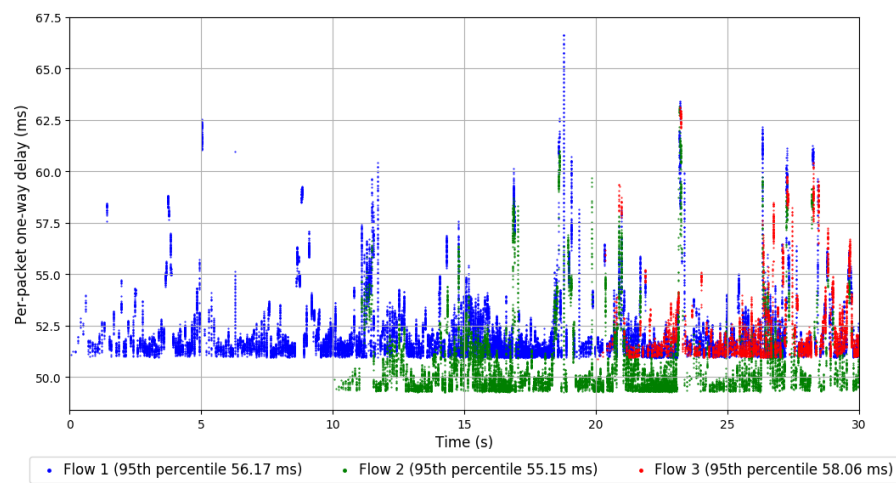
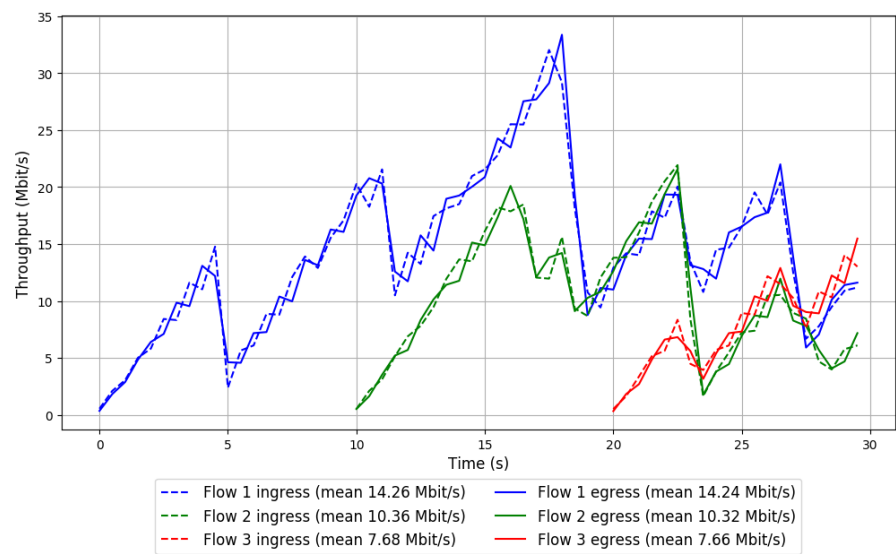
-- Flow 3:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 58.058 ms

Loss rate: 0.29%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 01:25:09 +0000

End at: Tue, 01 Aug 2017 01:25:39 +0000

Local clock offset: 0.819 ms

Remote clock offset: -1.155 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.24 Mbit/s

95th percentile per-packet one-way delay: 56.752 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 56.779 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 56.688 ms

Loss rate: 0.51%

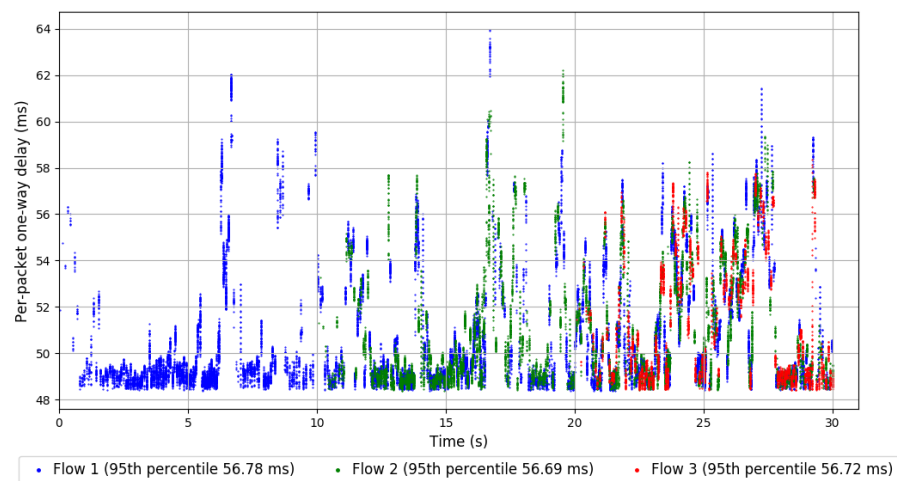
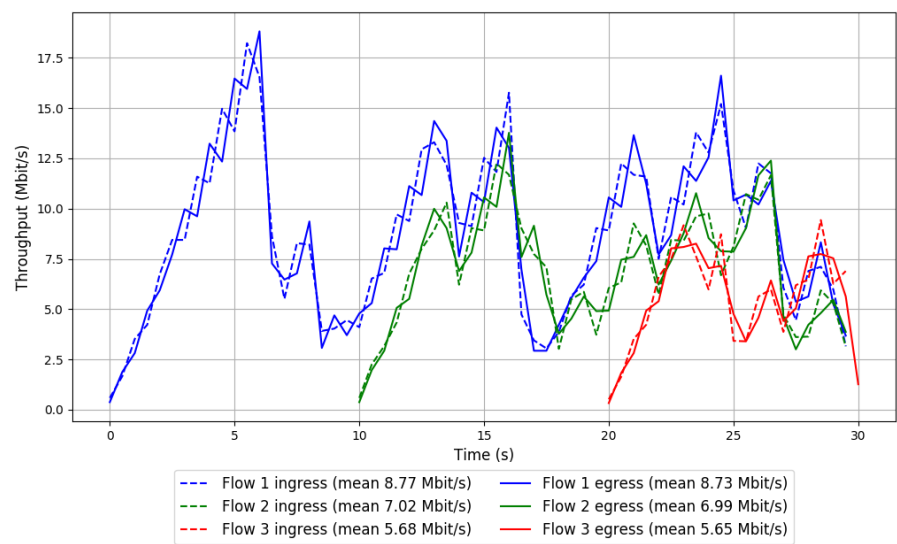
-- Flow 3:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 56.717 ms

Loss rate: 0.71%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Mon, 31 Jul 2017 22:28:39 +0000

End at: Mon, 31 Jul 2017 22:29:09 +0000

Local clock offset: 0.565 ms

Remote clock offset: -2.199 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 69.417 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 69.53 Mbit/s

95th percentile per-packet one-way delay: 69.087 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 14.34 Mbit/s

95th percentile per-packet one-way delay: 70.928 ms

Loss rate: 1.54%

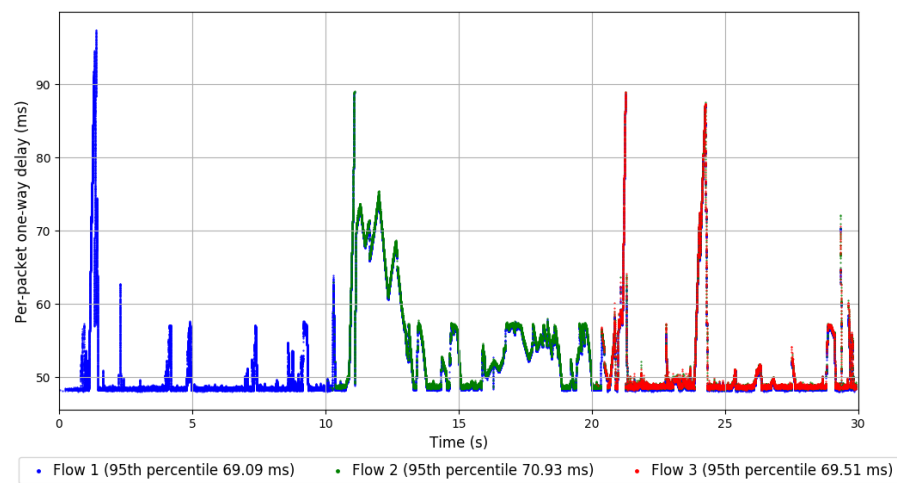
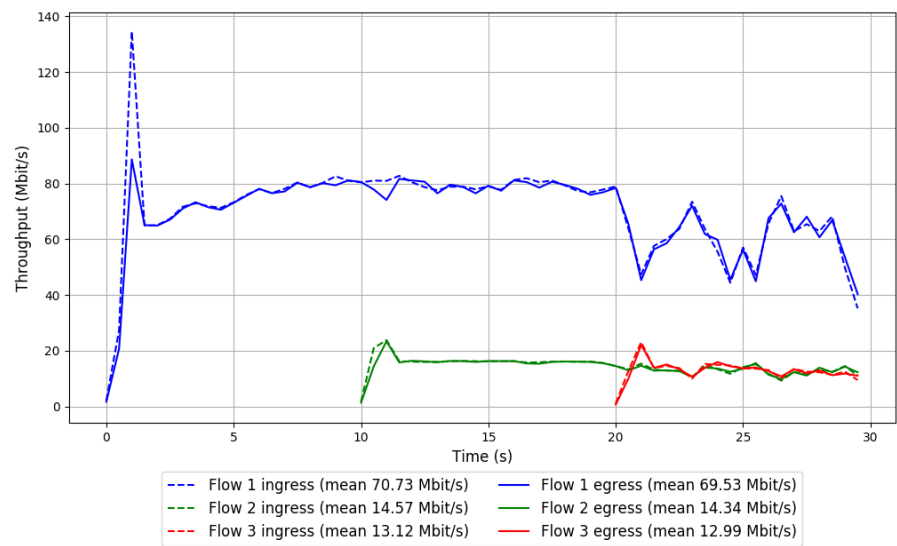
-- Flow 3:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 69.507 ms

Loss rate: 1.02%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Mon, 31 Jul 2017 22:49:37 +0000

End at: Mon, 31 Jul 2017 22:50:07 +0000

Local clock offset: 0.671 ms

Remote clock offset: 0.797 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 87.289 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 76.52 Mbit/s

95th percentile per-packet one-way delay: 87.325 ms

Loss rate: 3.92%

-- Flow 2:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 87.912 ms

Loss rate: 4.20%

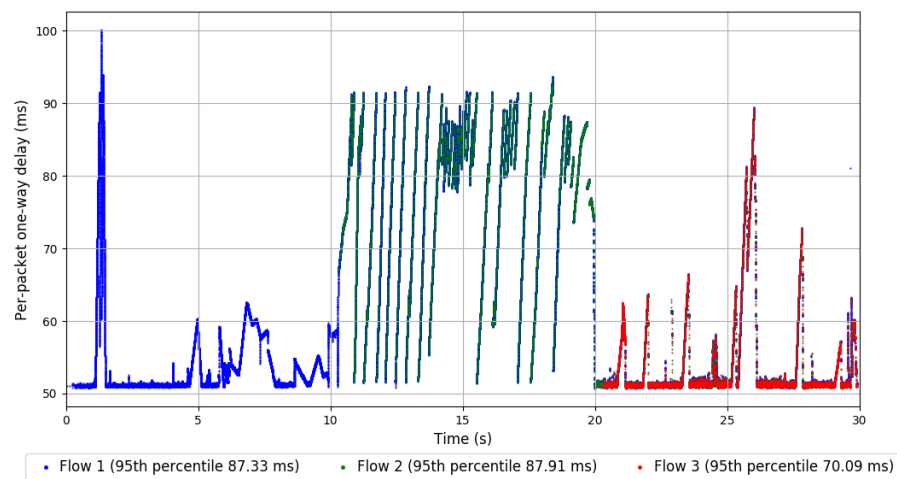
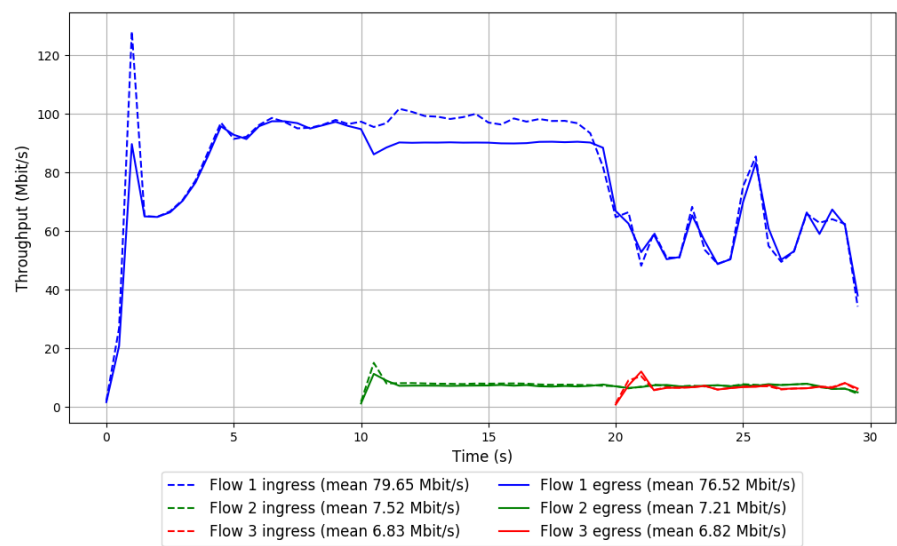
-- Flow 3:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 70.086 ms

Loss rate: 0.27%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Mon, 31 Jul 2017 23:10:29 +0000

End at: Mon, 31 Jul 2017 23:10:59 +0000

Local clock offset: 0.613 ms

Remote clock offset: -1.455 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.39 Mbit/s

95th percentile per-packet one-way delay: 54.695 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 54.803 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 53.577 ms

Loss rate: 0.49%

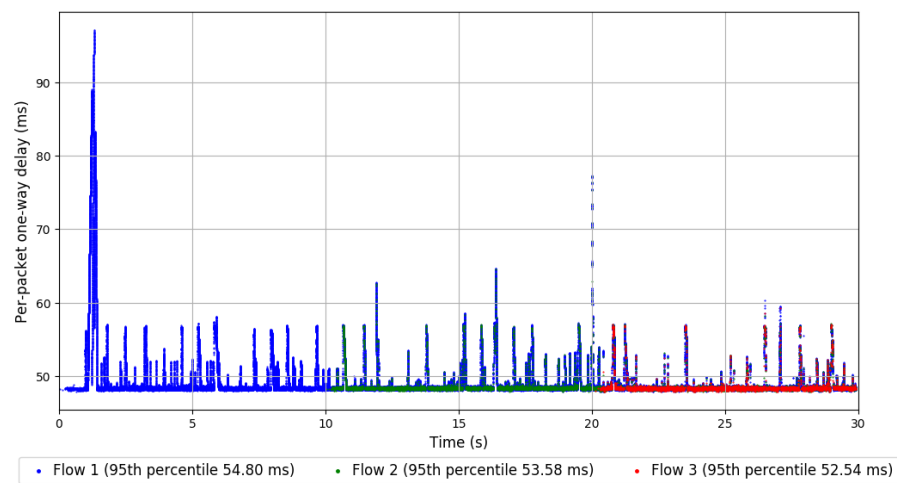
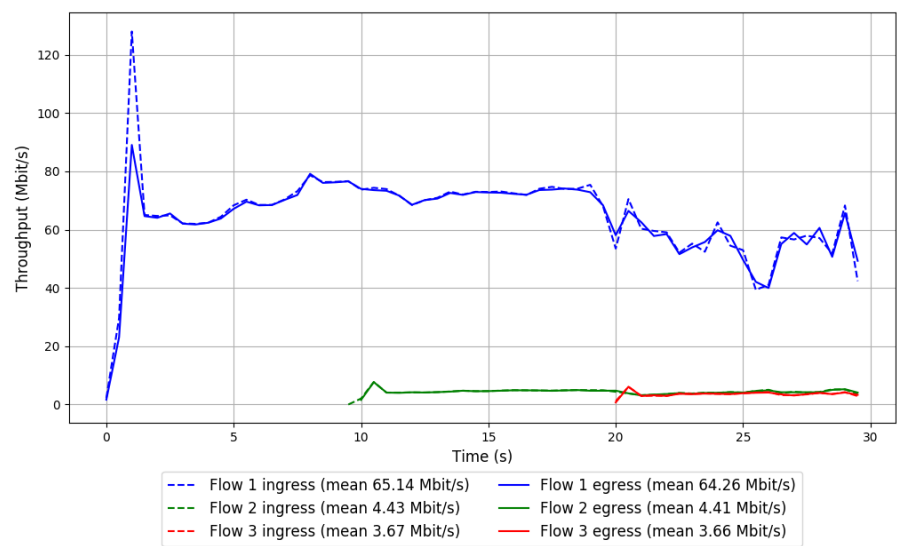
-- Flow 3:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 52.536 ms

Loss rate: 0.28%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Mon, 31 Jul 2017 23:31:19 +0000

End at: Mon, 31 Jul 2017 23:31:49 +0000

Local clock offset: 0.377 ms

Remote clock offset: 1.27 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 84.854 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 76.51 Mbit/s

95th percentile per-packet one-way delay: 84.843 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 86.392 ms

Loss rate: 2.34%

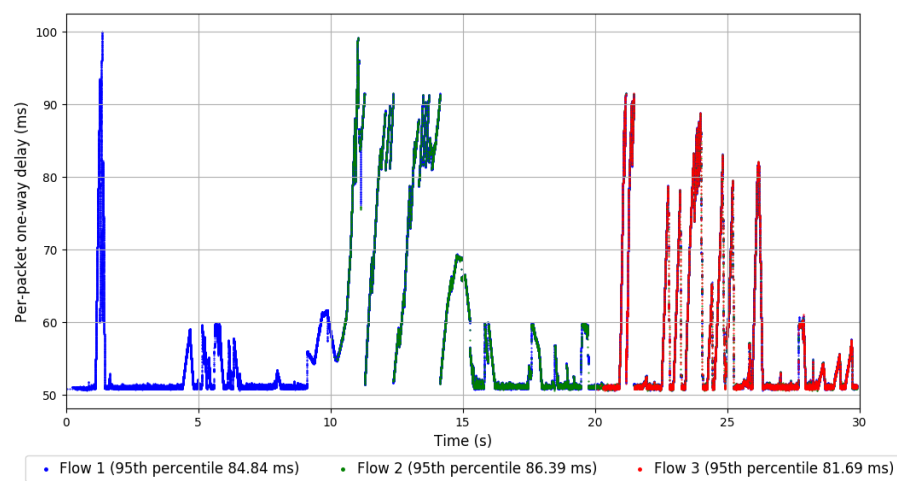
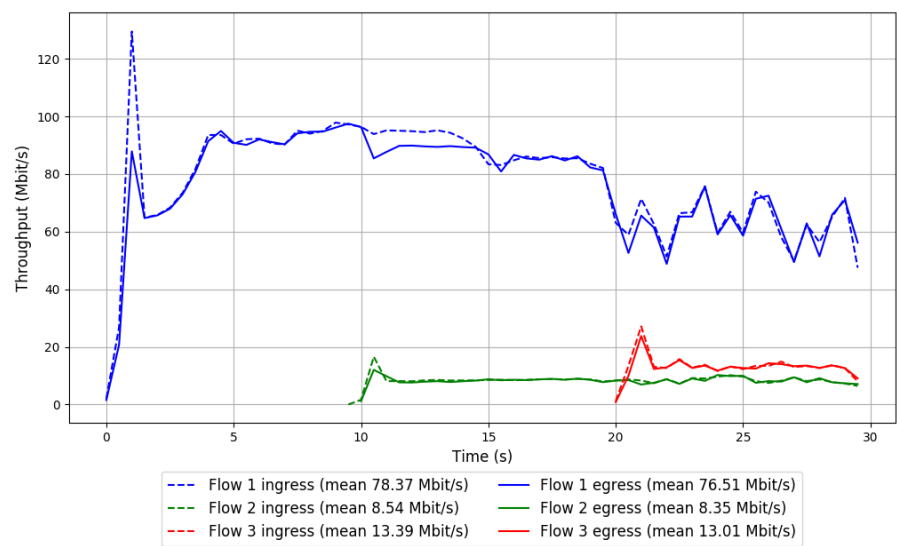
-- Flow 3:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 81.694 ms

Loss rate: 2.85%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Mon, 31 Jul 2017 23:52:10 +0000

End at: Mon, 31 Jul 2017 23:52:40 +0000

Local clock offset: 0.539 ms

Remote clock offset: 0.974 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:46:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.78 Mbit/s

95th percentile per-packet one-way delay: 83.991 ms

Loss rate: 3.87%

-- Flow 1:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 82.714 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 85.472 ms

Loss rate: 4.12%

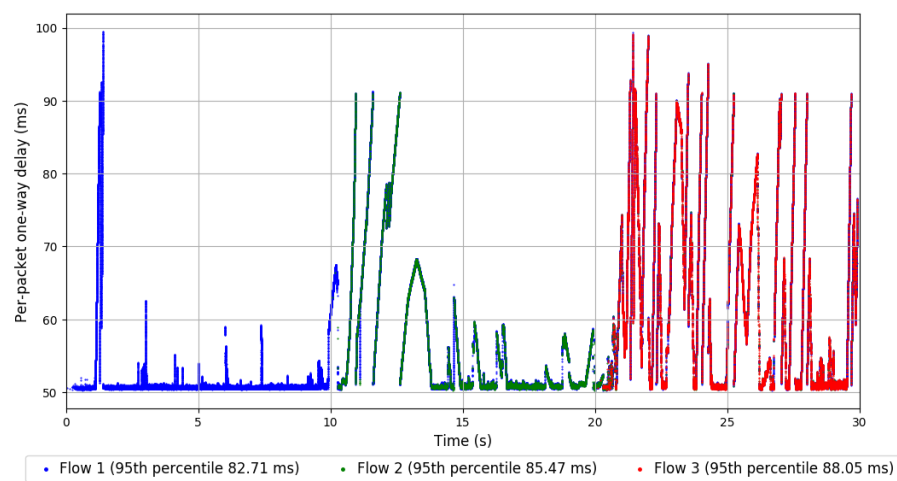
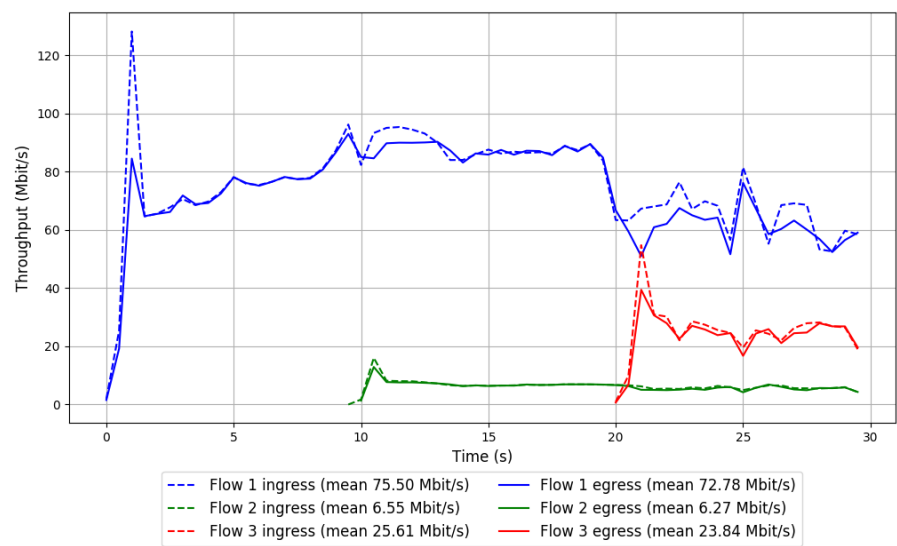
-- Flow 3:

Average throughput: 23.84 Mbit/s

95th percentile per-packet one-way delay: 88.053 ms

Loss rate: 6.65%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Tue, 01 Aug 2017 00:13:36 +0000

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

Local clock offset: 0.679 ms

Remote clock offset: 1.059 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 82.197 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 81.605 ms

Loss rate: 2.27%

-- Flow 2:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 83.602 ms

Loss rate: 2.29%

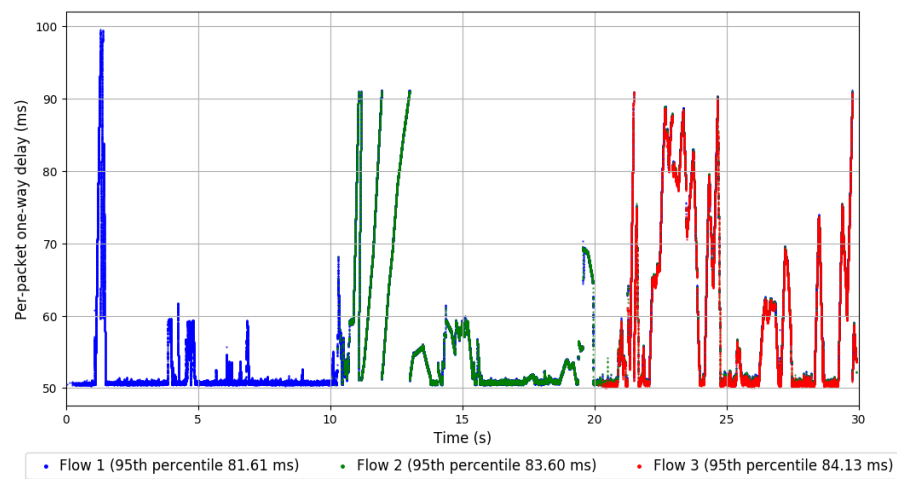
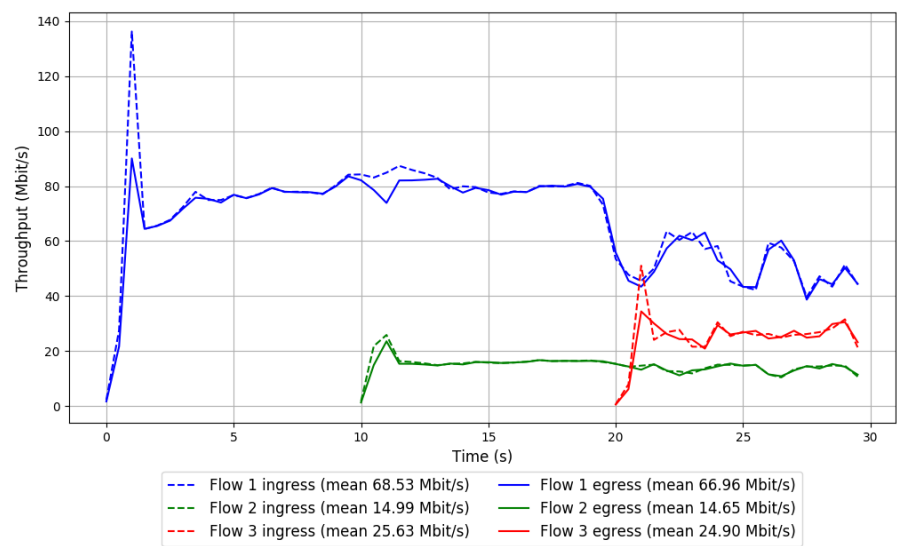
-- Flow 3:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 84.128 ms

Loss rate: 2.81%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Tue, 01 Aug 2017 00:34:45 +0000

End at: Tue, 01 Aug 2017 00:35:15 +0000

Local clock offset: 0.789 ms

Remote clock offset: -1.05 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.84 Mbit/s

95th percentile per-packet one-way delay: 75.989 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 71.76 Mbit/s

95th percentile per-packet one-way delay: 76.113 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 8.12 Mbit/s

95th percentile per-packet one-way delay: 76.856 ms

Loss rate: 0.67%

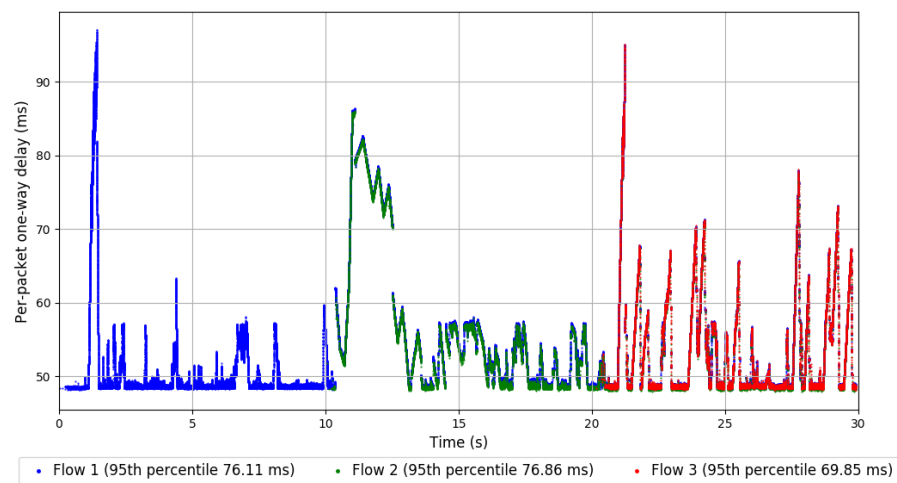
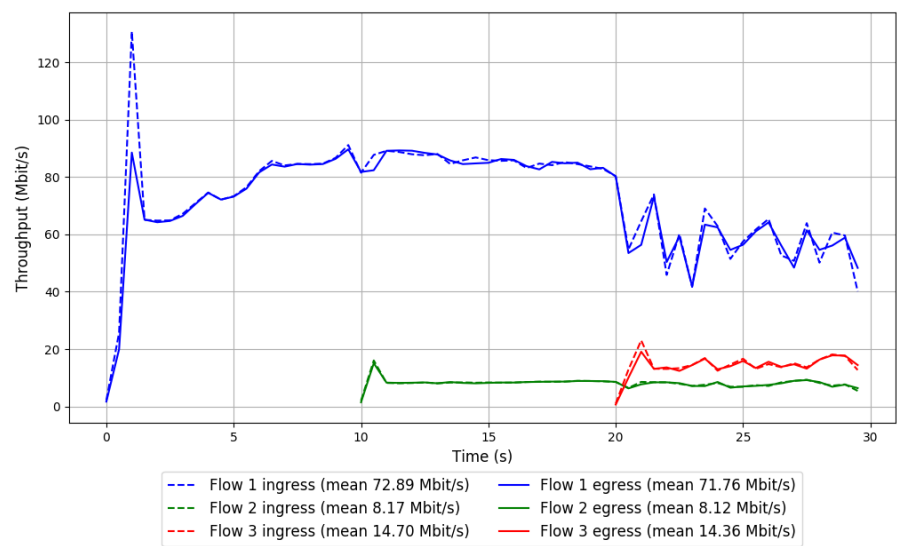
-- Flow 3:

Average throughput: 14.36 Mbit/s

95th percentile per-packet one-way delay: 69.854 ms

Loss rate: 2.35%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Tue, 01 Aug 2017 00:55:49 +0000

End at: Tue, 01 Aug 2017 00:56:19 +0000

Local clock offset: 0.76 ms

Remote clock offset: -1.153 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.77 Mbit/s

95th percentile per-packet one-way delay: 70.833 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 69.913 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 70.687 ms

Loss rate: 0.97%

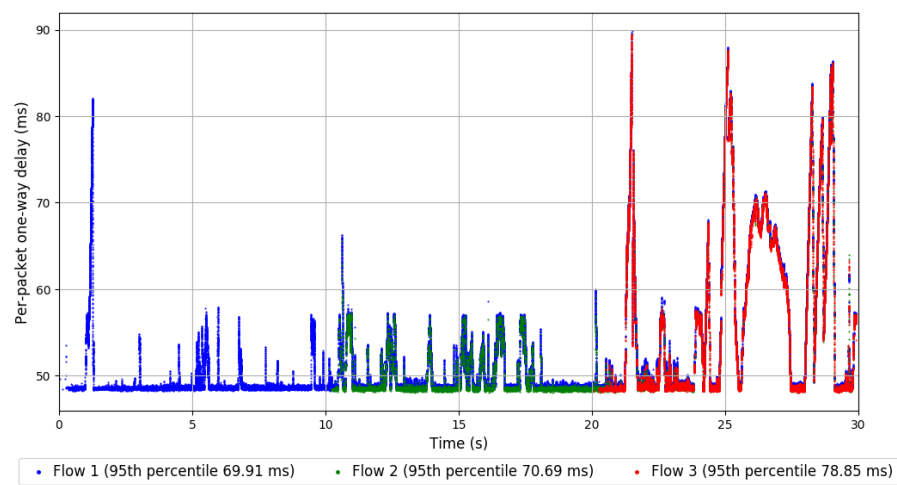
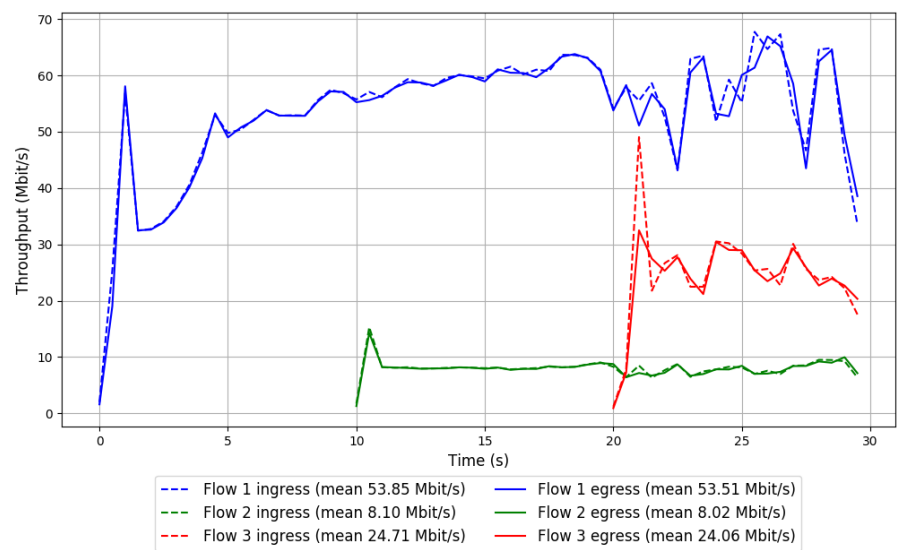
-- Flow 3:

Average throughput: 24.06 Mbit/s

95th percentile per-packet one-way delay: 78.848 ms

Loss rate: 2.60%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Tue, 01 Aug 2017 01:17:45 +0000

End at: Tue, 01 Aug 2017 01:18:15 +0000

Local clock offset: 0.808 ms

Remote clock offset: 1.04 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 75.110 ms

Loss rate: 2.97%

-- Flow 1:

Average throughput: 58.09 Mbit/s

95th percentile per-packet one-way delay: 73.269 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 79.923 ms

Loss rate: 3.31%

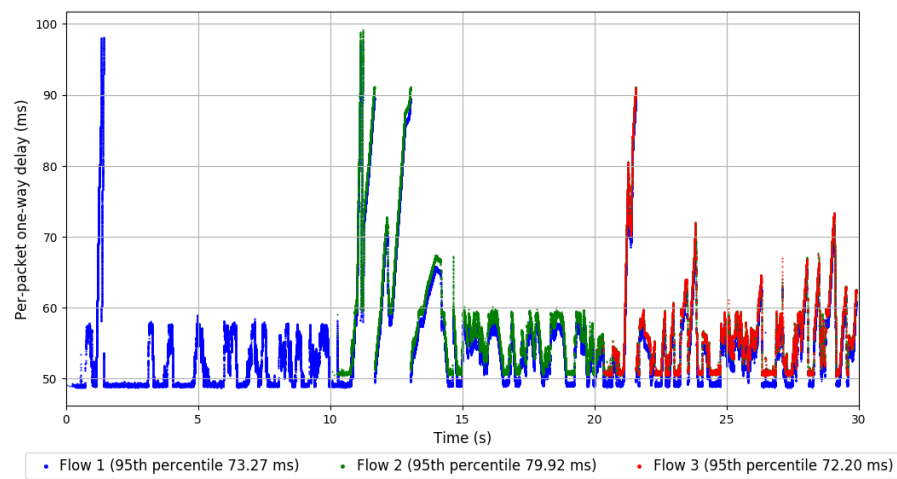
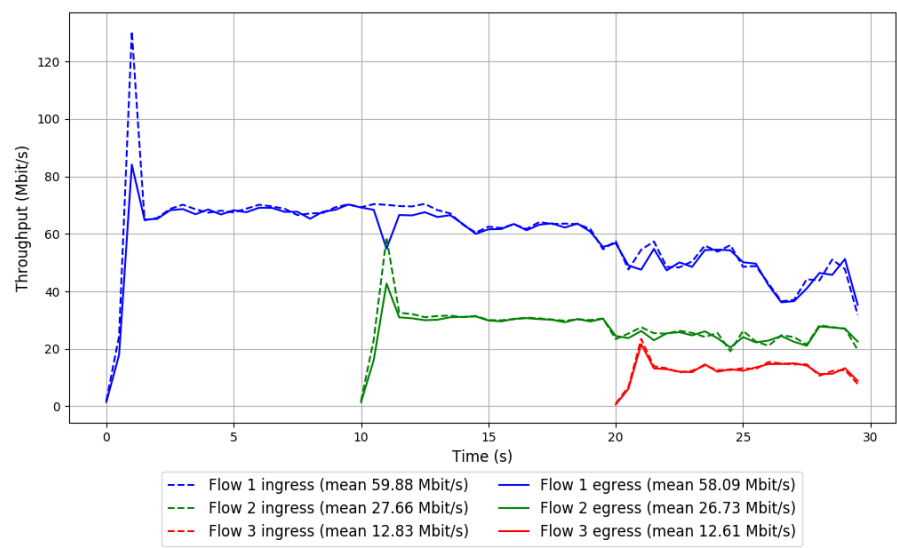
-- Flow 3:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 72.203 ms

Loss rate: 1.61%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Tue, 01 Aug 2017 01:40:08 +0000

End at: Tue, 01 Aug 2017 01:40:38 +0000

Local clock offset: 0.715 ms

Remote clock offset: 1.03 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.07 Mbit/s

95th percentile per-packet one-way delay: 83.857 ms

Loss rate: 3.73%

-- Flow 1:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 82.200 ms

Loss rate: 3.57%

-- Flow 2:

Average throughput: 28.51 Mbit/s

95th percentile per-packet one-way delay: 87.245 ms

Loss rate: 4.21%

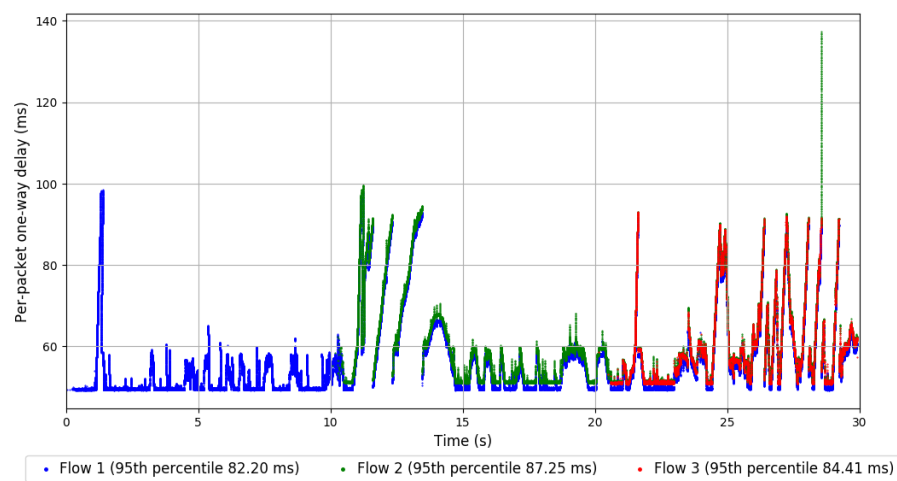
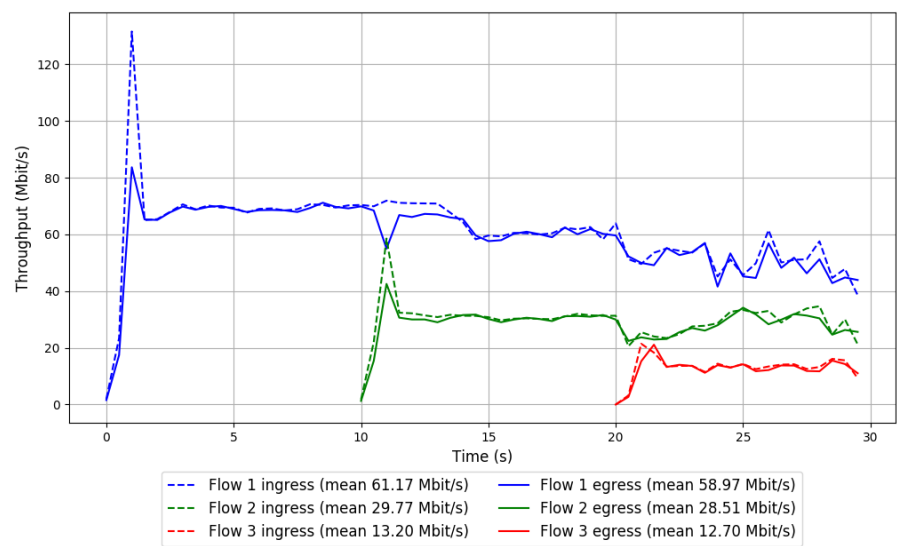
-- Flow 3:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 84.413 ms

Loss rate: 3.79%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

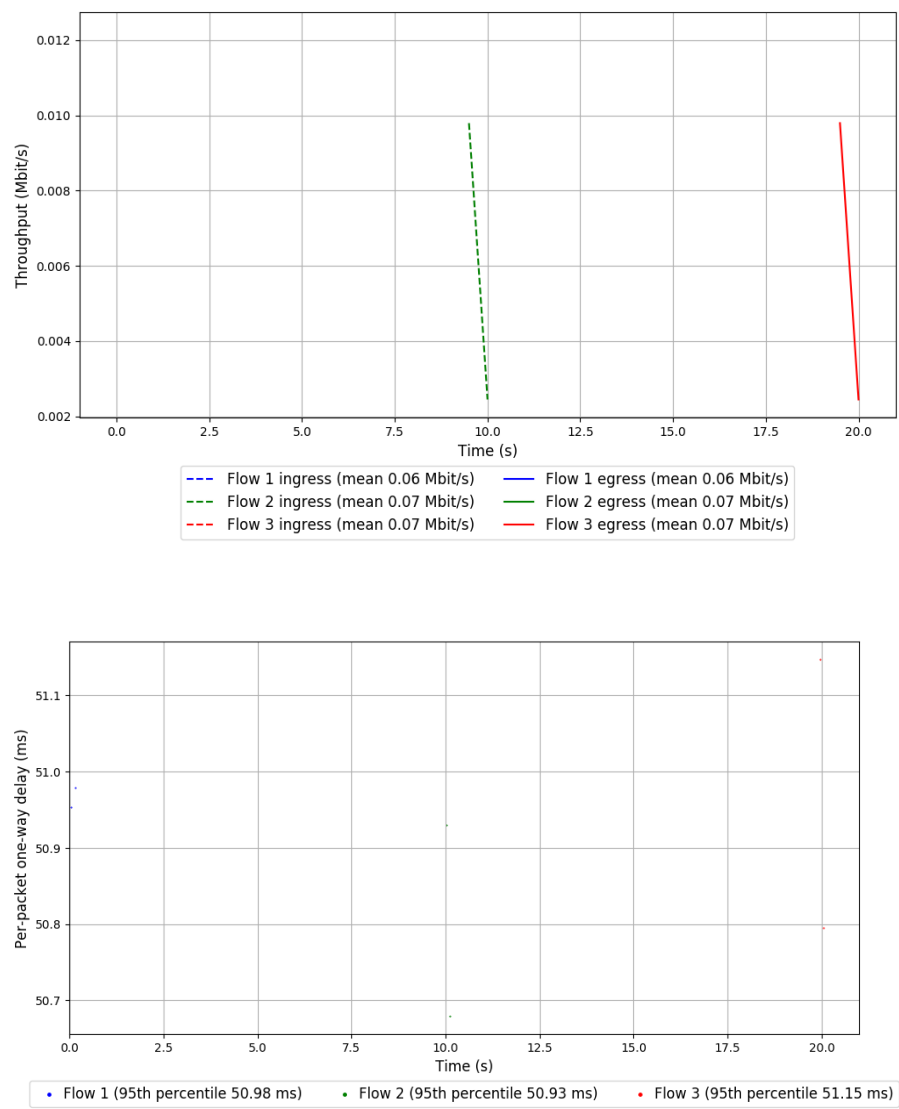
Start at: Mon, 31 Jul 2017 22:25:51 +0000

End at: Mon, 31 Jul 2017 22:26:21 +0000

Local clock offset: 0.477 ms

Remote clock offset: 0.149 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Mon, 31 Jul 2017 22:46:47 +0000

End at: Mon, 31 Jul 2017 22:47:17 +0000

Local clock offset: 0.562 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.86 Mbit/s

95th percentile per-packet one-way delay: 66.656 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 50.523 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.07 Mbit/s

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

Loss rate: 0.00%

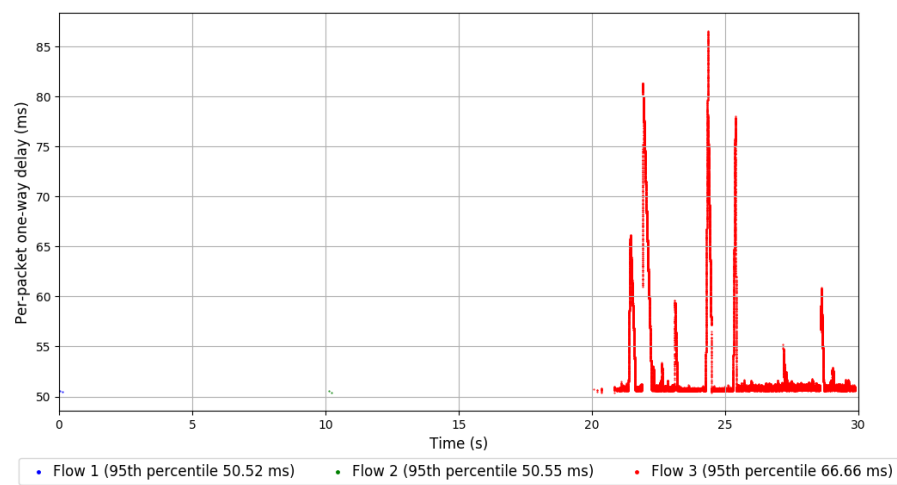
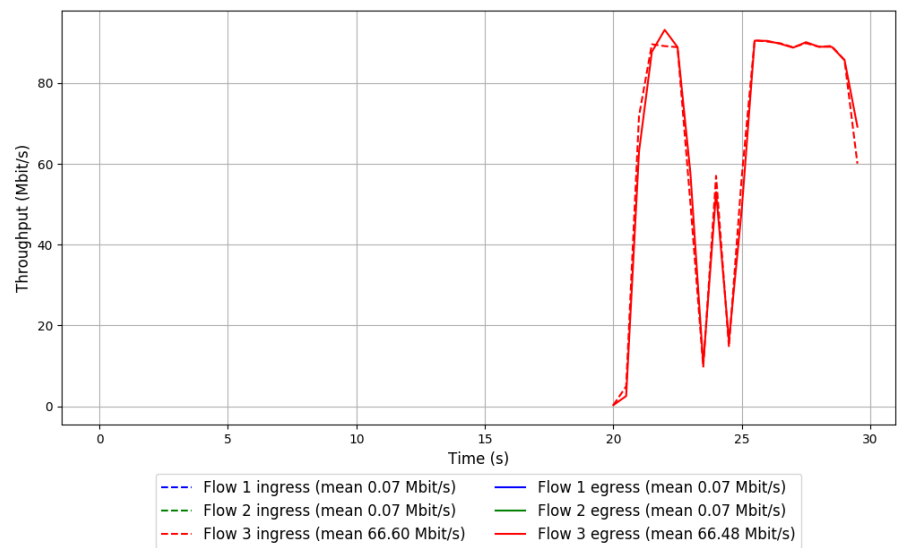
-- Flow 3:

Average throughput: 66.48 Mbit/s

95th percentile per-packet one-way delay: 66.656 ms

Loss rate: 0.19%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

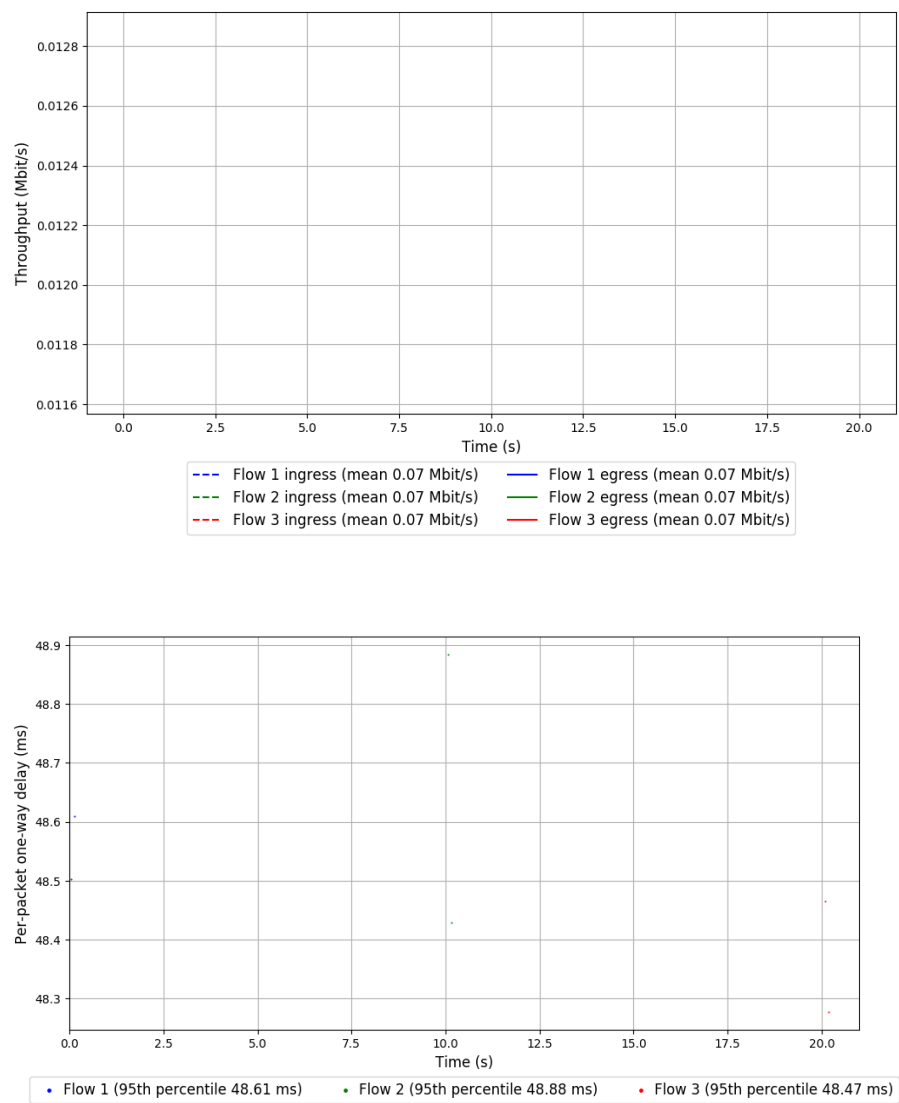
Start at: Mon, 31 Jul 2017 23:07:43 +0000

End at: Mon, 31 Jul 2017 23:08:13 +0000

Local clock offset: 0.535 ms

Remote clock offset: -1.479 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

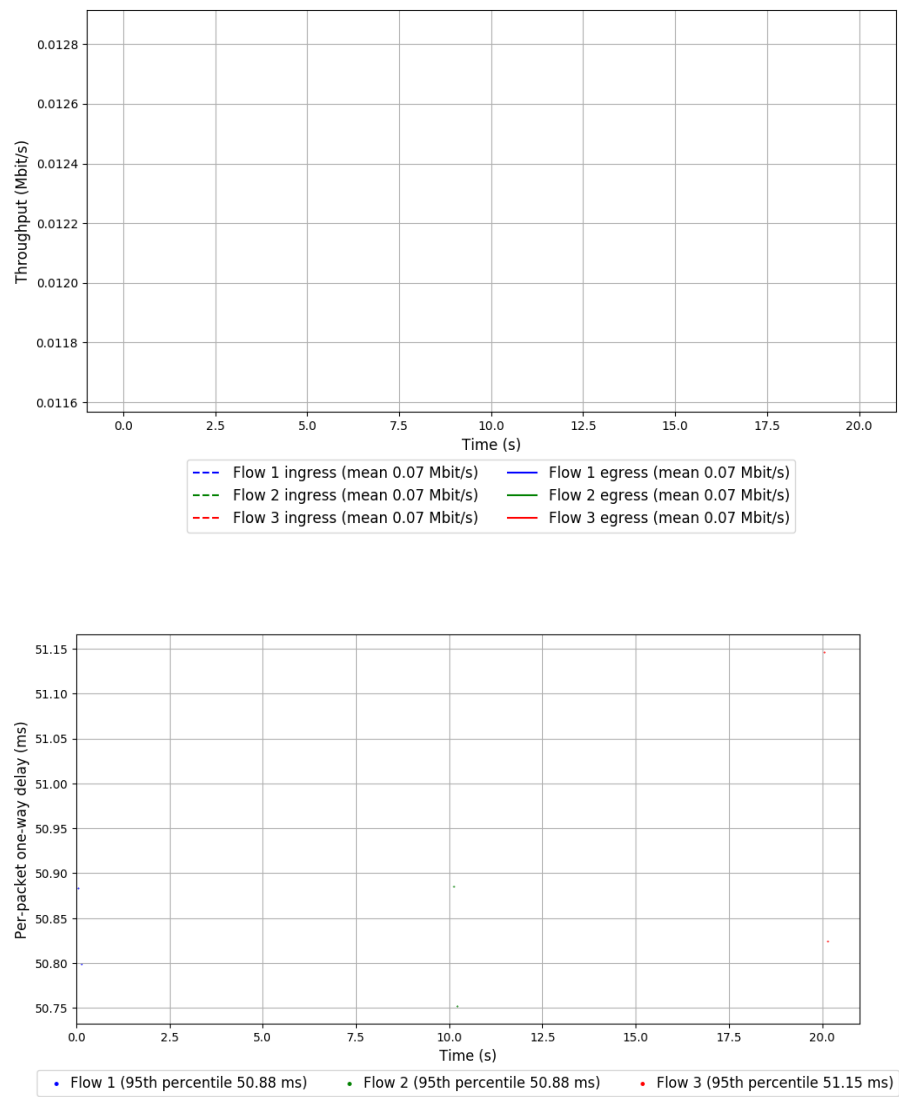
Start at: Mon, 31 Jul 2017 23:28:32 +0000

End at: Mon, 31 Jul 2017 23:29:02 +0000

Local clock offset: 0.489 ms

Remote clock offset: 1.262 ms

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: Mon, 31 Jul 2017 23:49:21 +0000

End at: Mon, 31 Jul 2017 23:49:51 +0000

Local clock offset: 0.436 ms

Remote clock offset: 1.491 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.66 Mbit/s

95th percentile per-packet one-way delay: 55.350 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 51.077 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 52.317 ms

Loss rate: 0.00%

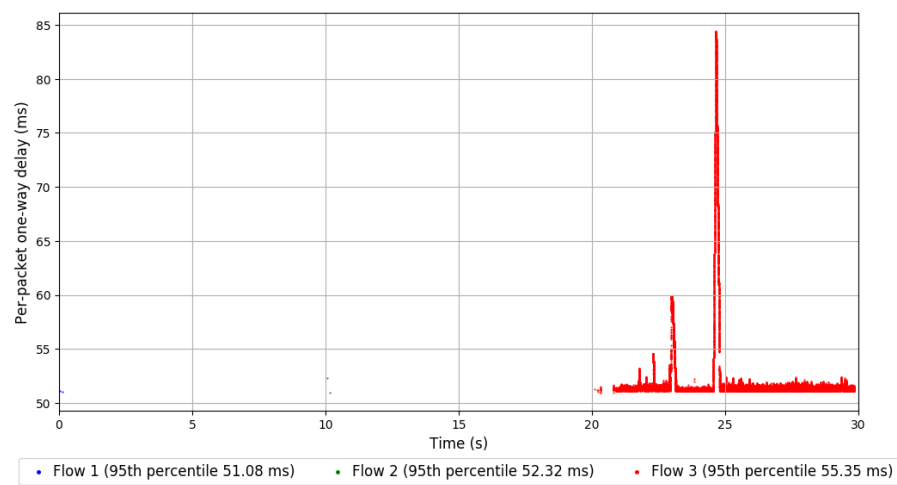
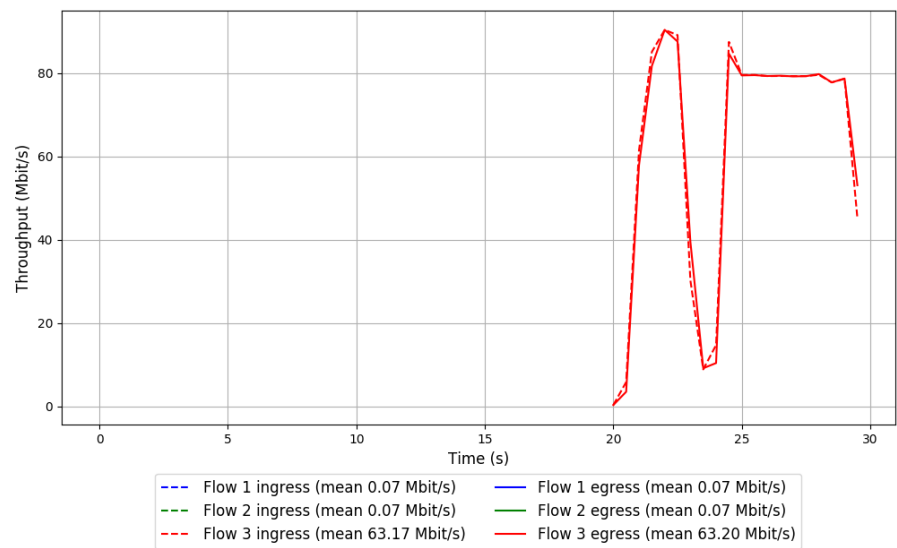
-- Flow 3:

Average throughput: 63.20 Mbit/s

95th percentile per-packet one-way delay: 55.350 ms

Loss rate: 0.04%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

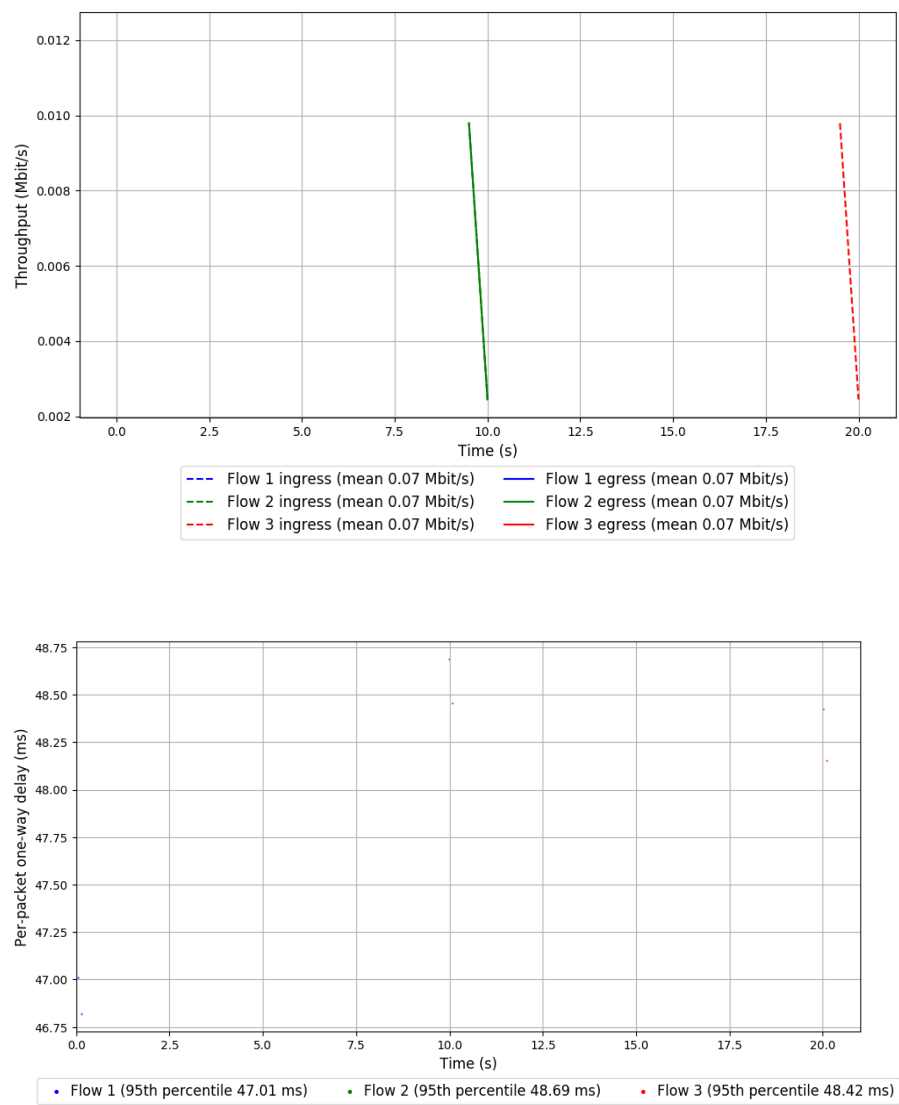
Start at: Tue, 01 Aug 2017 00:10:39 +0000

End at: Tue, 01 Aug 2017 00:11:09 +0000

Local clock offset: 0.69 ms

Remote clock offset: -0.958 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

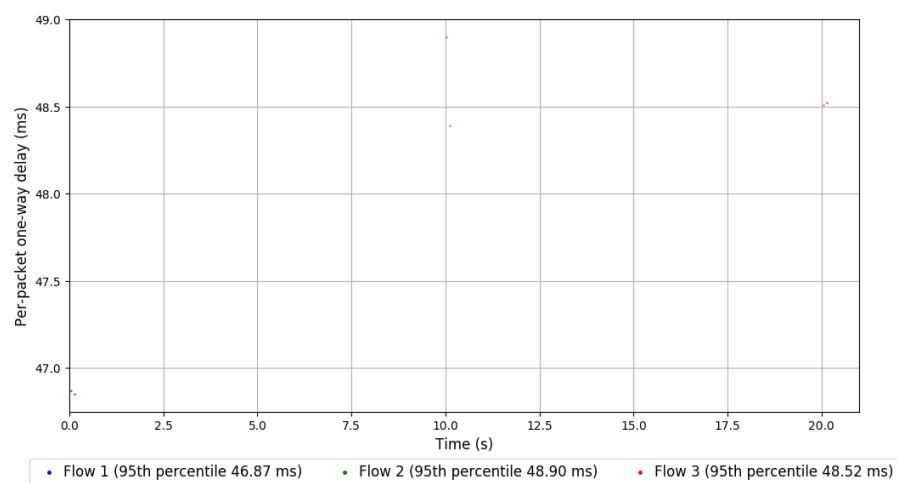
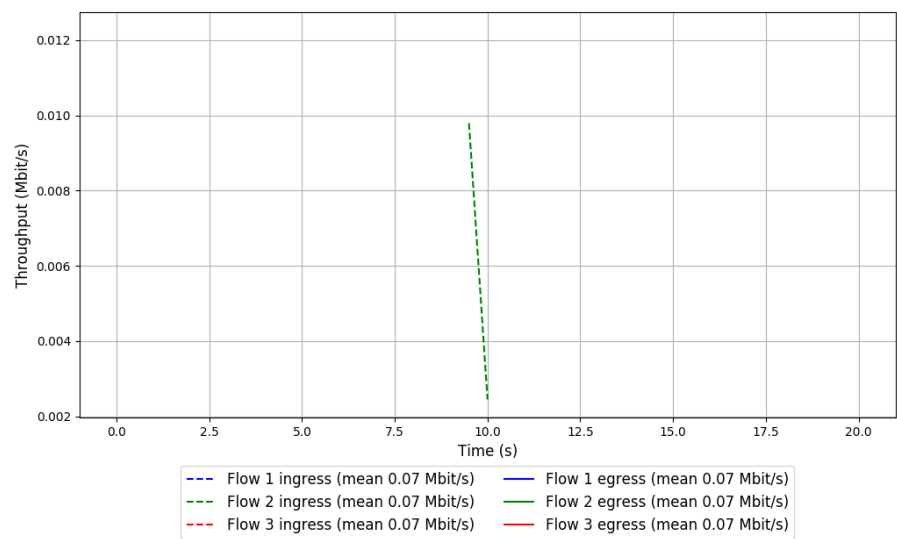
Start at: Tue, 01 Aug 2017 00:31:52 +0000

End at: Tue, 01 Aug 2017 00:32:22 +0000

Local clock offset: 0.687 ms

Remote clock offset: -0.923 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 00:53:00 +0000

End at: Tue, 01 Aug 2017 00:53:30 +0000

Local clock offset: 0.761 ms

Remote clock offset: -1.143 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 56.697 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 47.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.07 Mbit/s

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

Loss rate: 0.00%

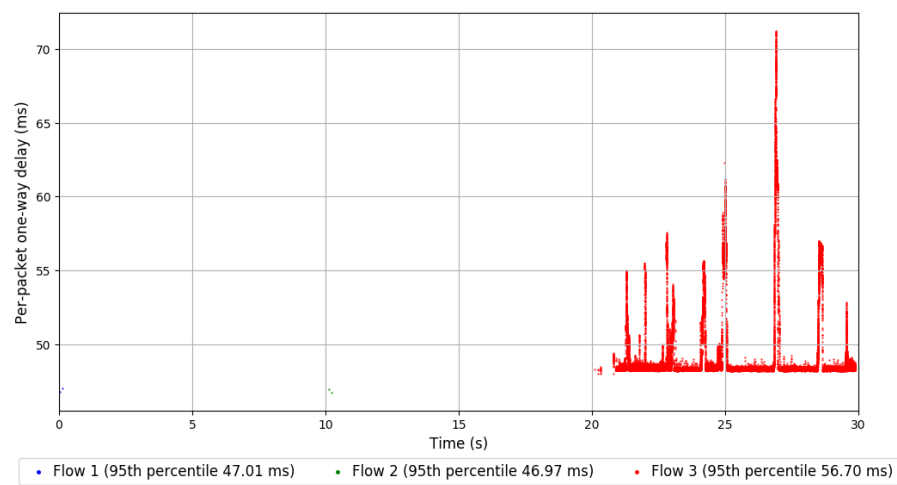
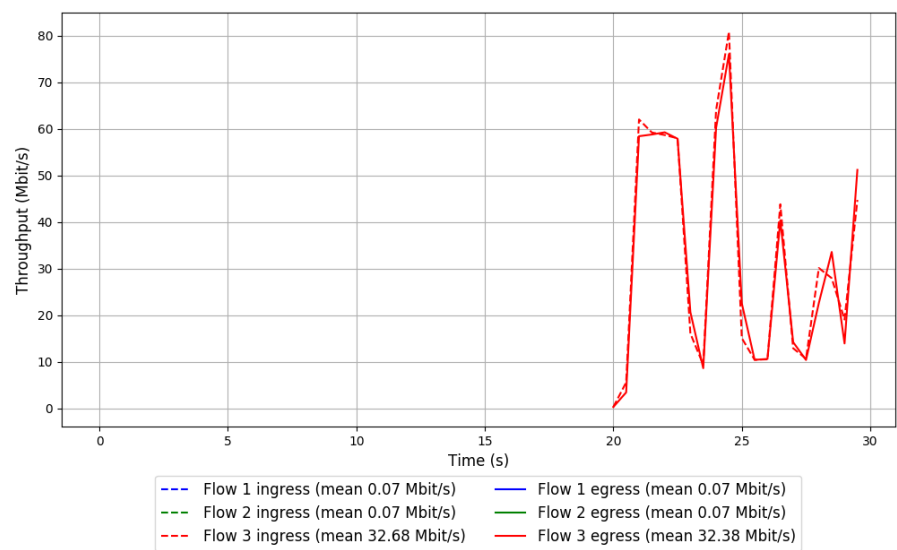
-- Flow 3:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 56.697 ms

Loss rate: 0.91%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 01:14:47 +0000

End at: Tue, 01 Aug 2017 01:15:17 +0000

Local clock offset: 0.739 ms

Remote clock offset: -1.11 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 56.736 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 48.891 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 48.453 ms

Loss rate: 0.00%

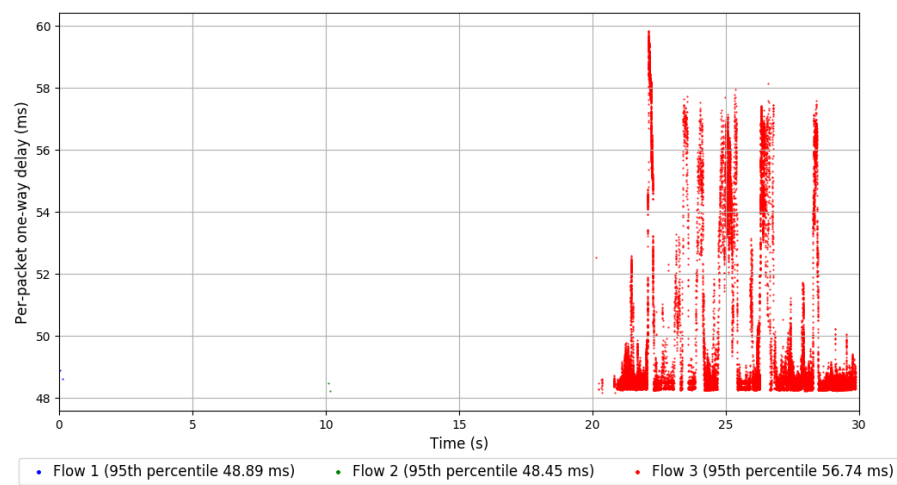
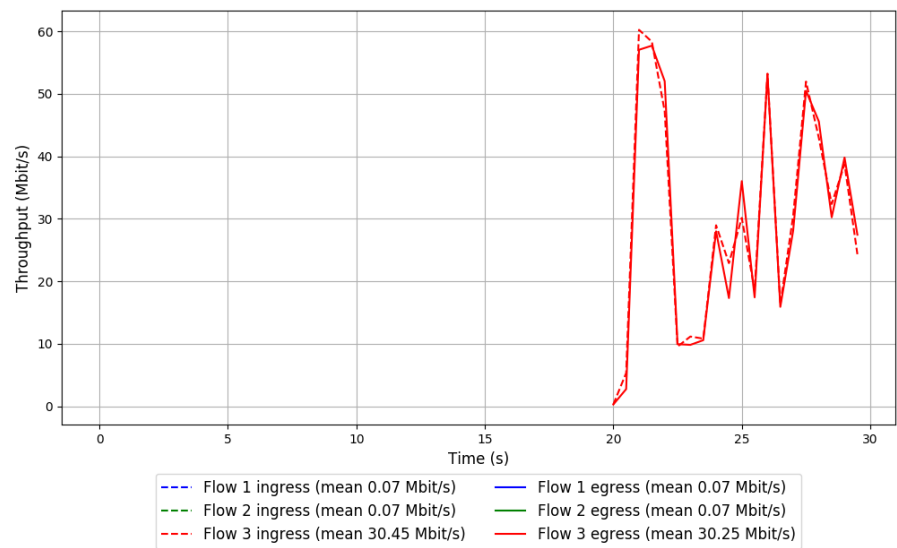
-- Flow 3:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 56.736 ms

Loss rate: 0.71%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

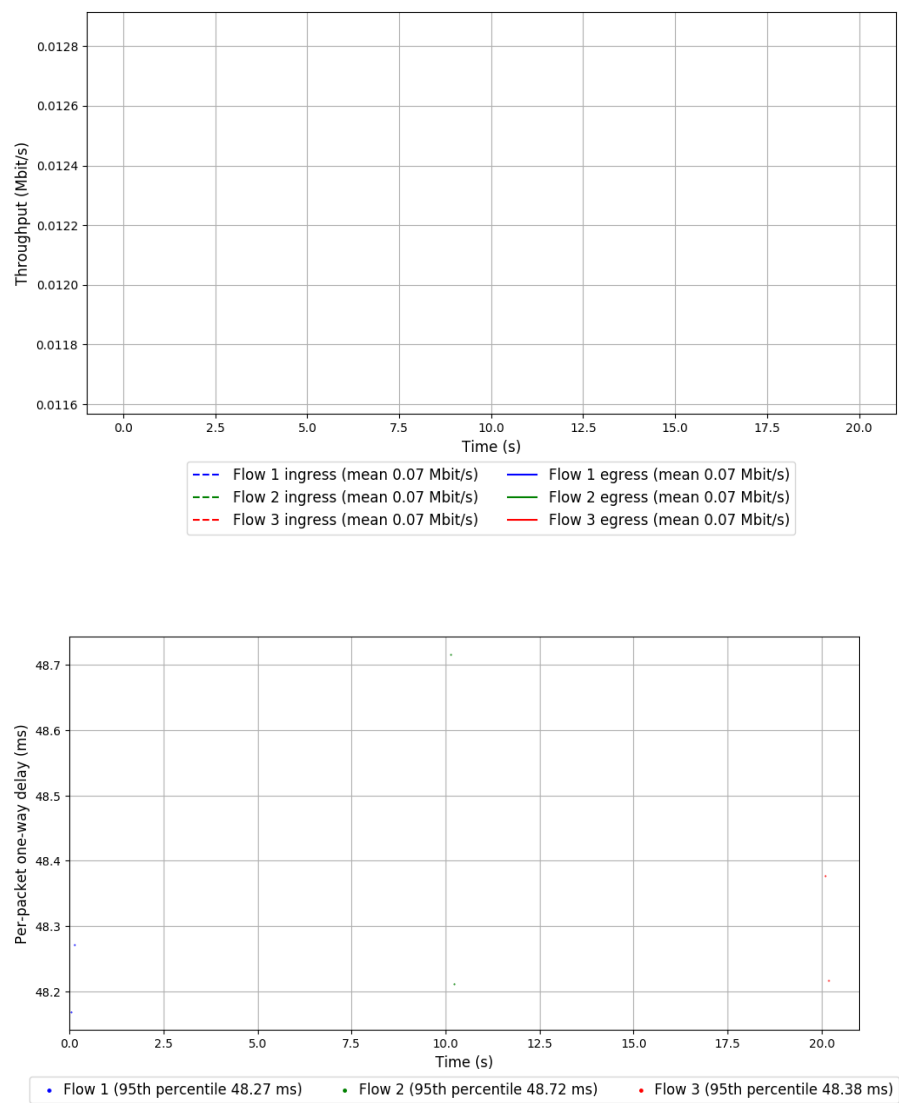
Start at: Tue, 01 Aug 2017 01:37:13 +0000

End at: Tue, 01 Aug 2017 01:37:43 +0000

Local clock offset: 0.693 ms

Remote clock offset: -1.422 ms

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Mon, 31 Jul 2017 22:20:13 +0000

End at: Mon, 31 Jul 2017 22:20:43 +0000

Local clock offset: 0.593 ms

Remote clock offset: -2.482 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 52.881 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 53.326 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 52.555 ms

Loss rate: 0.22%

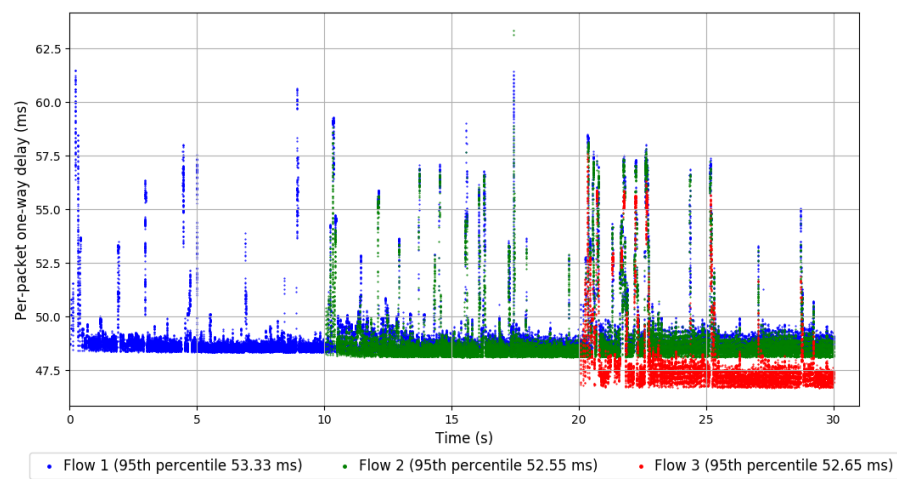
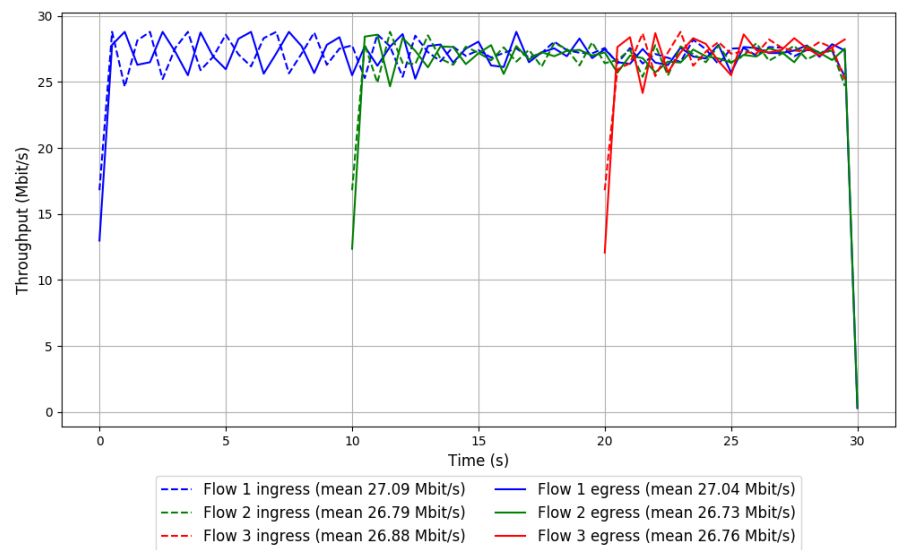
-- Flow 3:

Average throughput: 26.76 Mbit/s

95th percentile per-packet one-way delay: 52.647 ms

Loss rate: 0.42%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Mon, 31 Jul 2017 22:41:11 +0000

End at: Mon, 31 Jul 2017 22:41:41 +0000

Local clock offset: 0.545 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 52.031 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 27.16 Mbit/s

95th percentile per-packet one-way delay: 51.853 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 52.267 ms

Loss rate: 0.07%

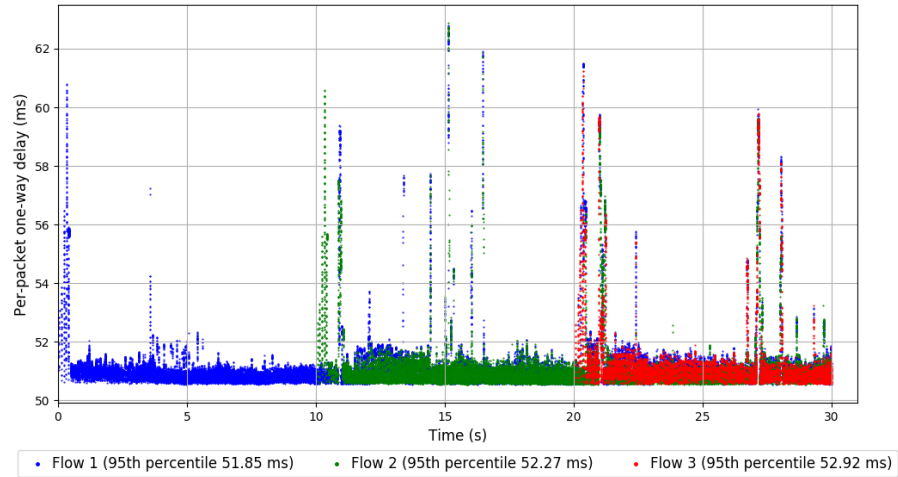
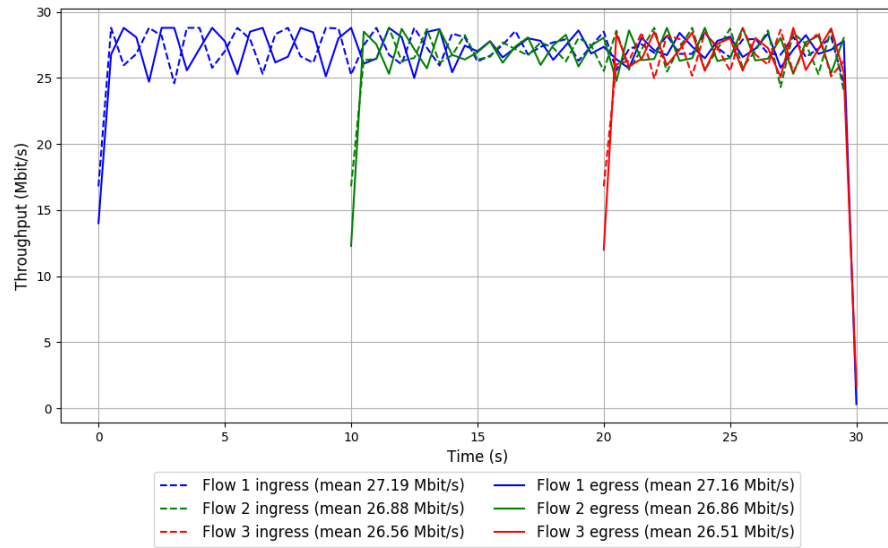
-- Flow 3:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 52.922 ms

Loss rate: 0.15%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Mon, 31 Jul 2017 23:02:07 +0000

End at: Mon, 31 Jul 2017 23:02:37 +0000

Local clock offset: 0.56 ms

Remote clock offset: 1.067 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.38 Mbit/s

95th percentile per-packet one-way delay: 57.288 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 26.89 Mbit/s

95th percentile per-packet one-way delay: 57.451 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 57.441 ms

Loss rate: 0.33%

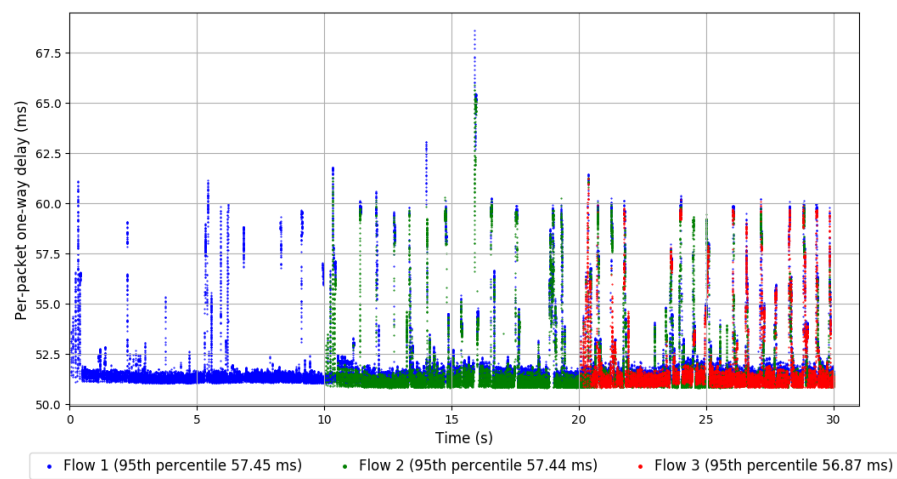
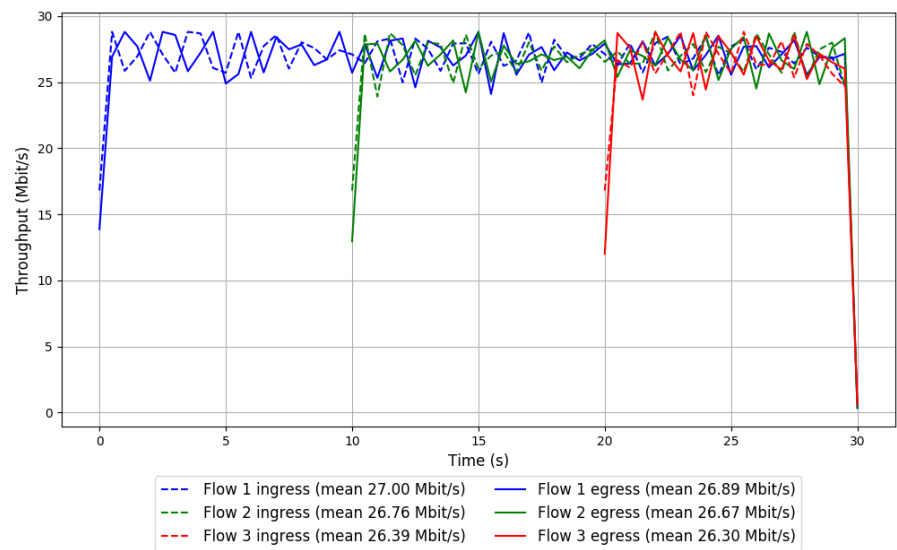
-- Flow 3:

Average throughput: 26.30 Mbit/s

95th percentile per-packet one-way delay: 56.872 ms

Loss rate: 0.35%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Mon, 31 Jul 2017 23:22:58 +0000

End at: Mon, 31 Jul 2017 23:23:28 +0000

Local clock offset: 0.402 ms

Remote clock offset: 0.726 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 54.504 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 27.33 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 26.78 Mbit/s

95th percentile per-packet one-way delay: 53.809 ms

Loss rate: 0.19%

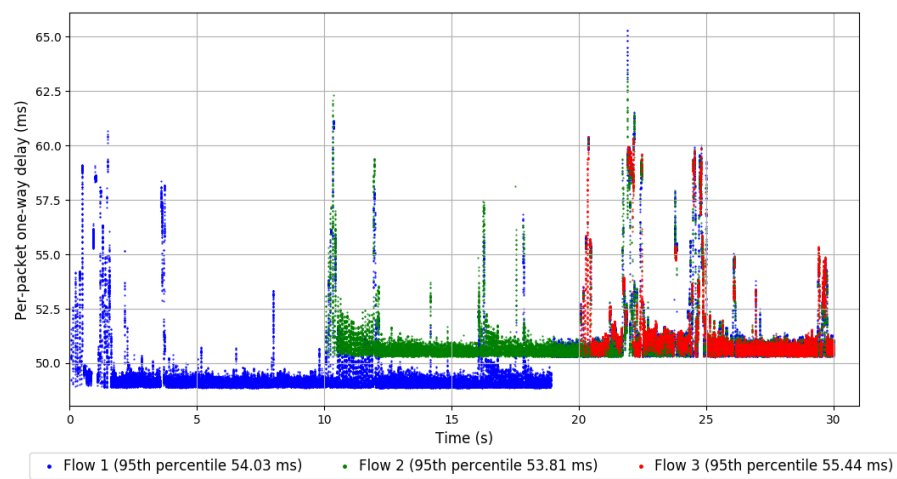
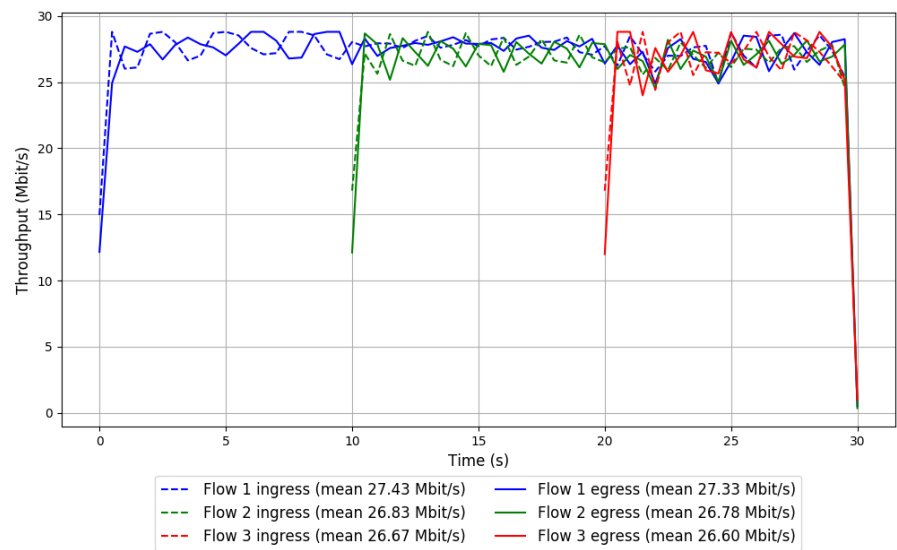
-- Flow 3:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 55.437 ms

Loss rate: 0.28%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Mon, 31 Jul 2017 23:43:45 +0000

End at: Mon, 31 Jul 2017 23:44:15 +0000

Local clock offset: 0.39 ms

Remote clock offset: -1.08 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.40 Mbit/s

95th percentile per-packet one-way delay: 55.167 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 54.084 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 26.58 Mbit/s

95th percentile per-packet one-way delay: 55.086 ms

Loss rate: 0.18%

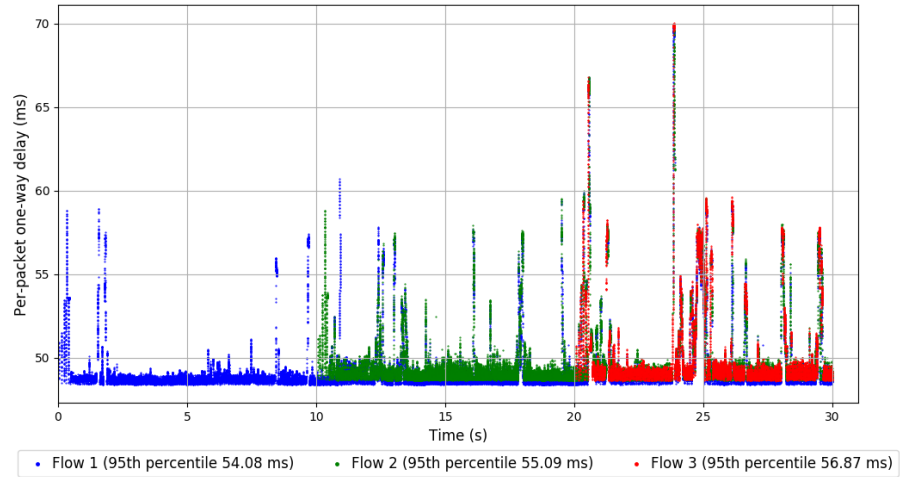
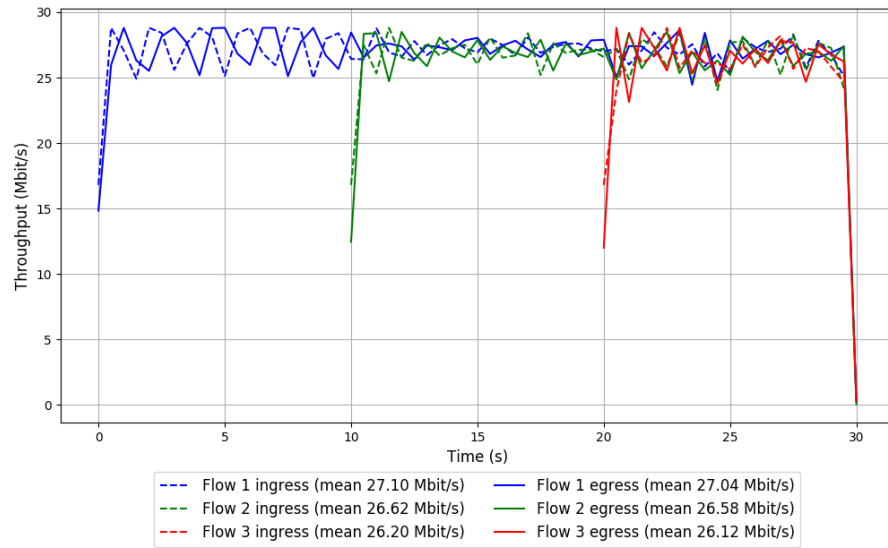
-- Flow 3:

Average throughput: 26.12 Mbit/s

95th percentile per-packet one-way delay: 56.866 ms

Loss rate: 0.30%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: Tue, 01 Aug 2017 00:04:53 +0000

End at: Tue, 01 Aug 2017 00:05:23 +0000

Local clock offset: 0.604 ms

Remote clock offset: -1.015 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:47:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 54.298 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: 54.301 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 54.950 ms

Loss rate: 0.43%

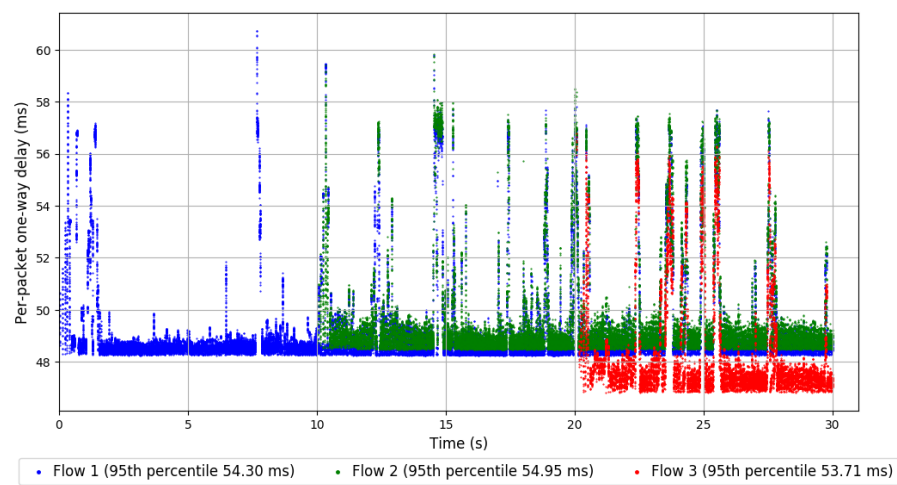
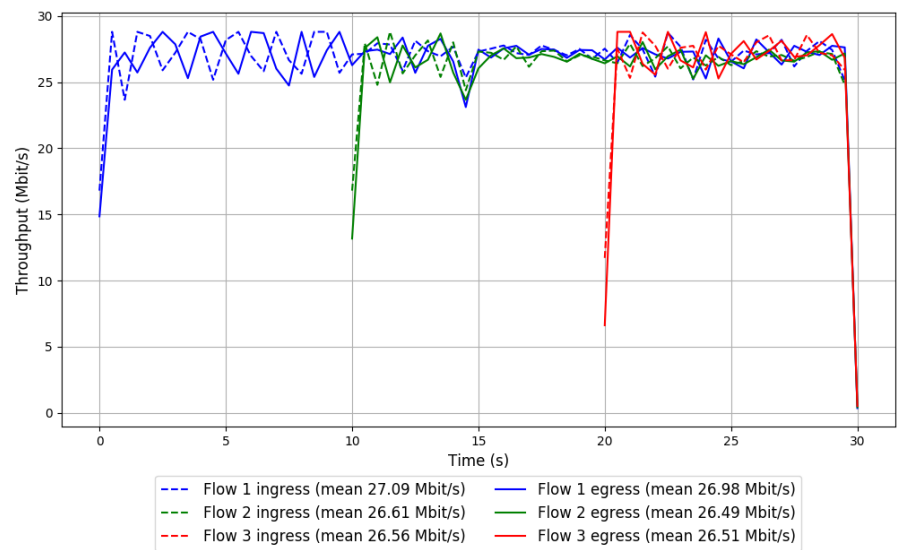
-- Flow 3:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.25%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Tue, 01 Aug 2017 00:26:11 +0000

End at: Tue, 01 Aug 2017 00:26:41 +0000

Local clock offset: 0.762 ms

Remote clock offset: 1.479 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 55.915 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 26.77 Mbit/s

95th percentile per-packet one-way delay: 55.438 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 26.97 Mbit/s

95th percentile per-packet one-way delay: 55.849 ms

Loss rate: 0.14%

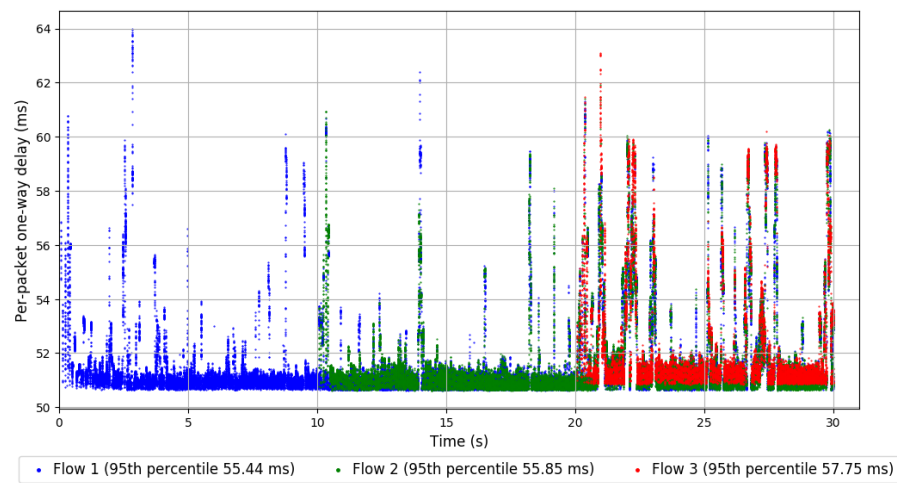
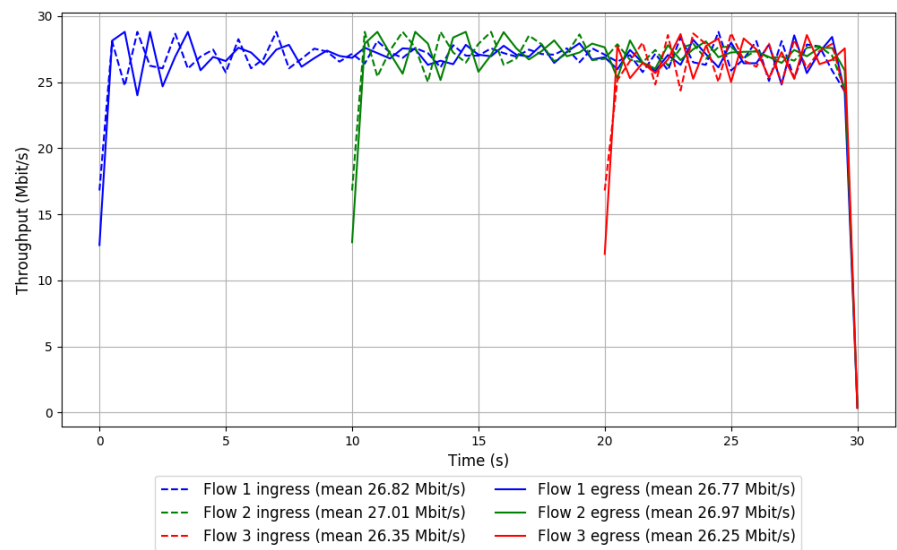
-- Flow 3:

Average throughput: 26.25 Mbit/s

95th percentile per-packet one-way delay: 57.749 ms

Loss rate: 0.37%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Tue, 01 Aug 2017 00:47:23 +0000

End at: Tue, 01 Aug 2017 00:47:53 +0000

Local clock offset: 0.856 ms

Remote clock offset: -1.042 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 54.389 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 26.61 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 26.53 Mbit/s

95th percentile per-packet one-way delay: 54.625 ms

Loss rate: 0.31%

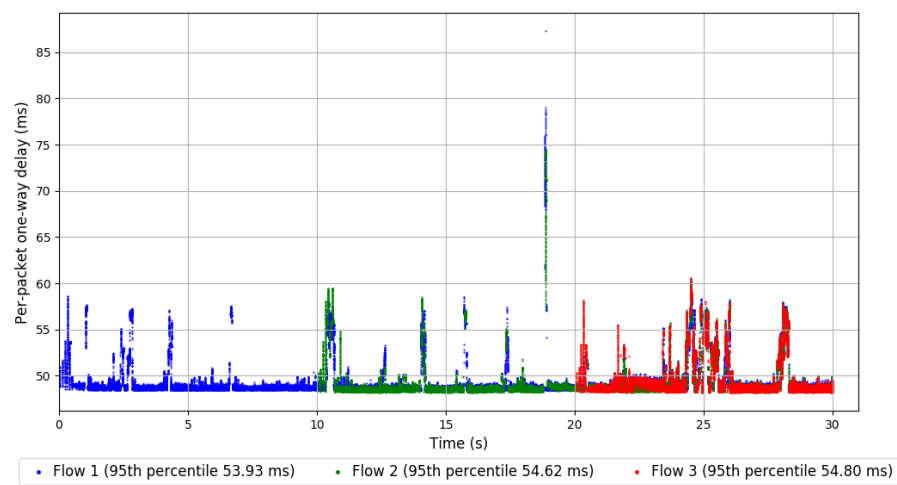
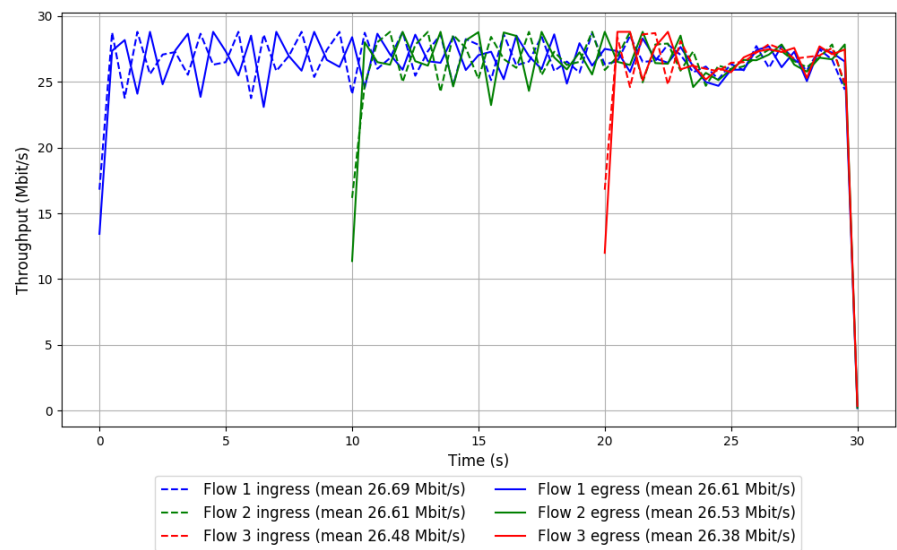
-- Flow 3:

Average throughput: 26.38 Mbit/s

95th percentile per-packet one-way delay: 54.801 ms

Loss rate: 0.37%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Tue, 01 Aug 2017 01:08:53 +0000

End at: Tue, 01 Aug 2017 01:09:23 +0000

Local clock offset: 0.836 ms

Remote clock offset: 0.879 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.54 Mbit/s

95th percentile per-packet one-way delay: 57.045 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 56.721 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 56.687 ms

Loss rate: 0.12%

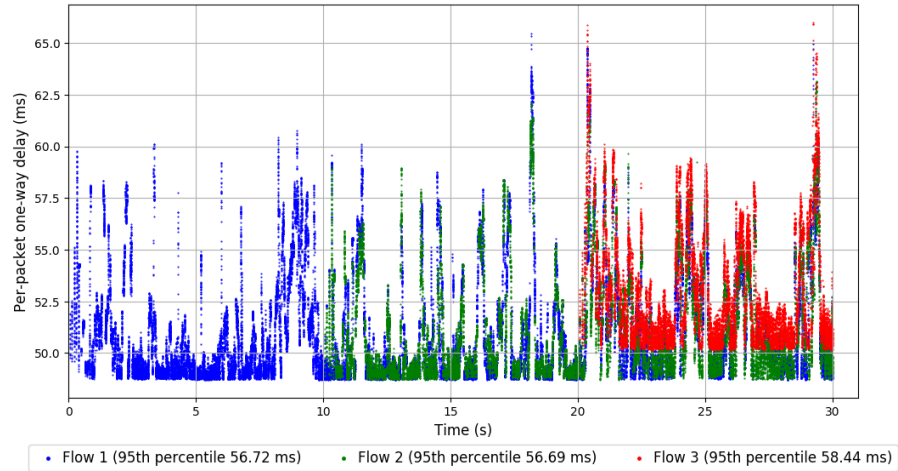
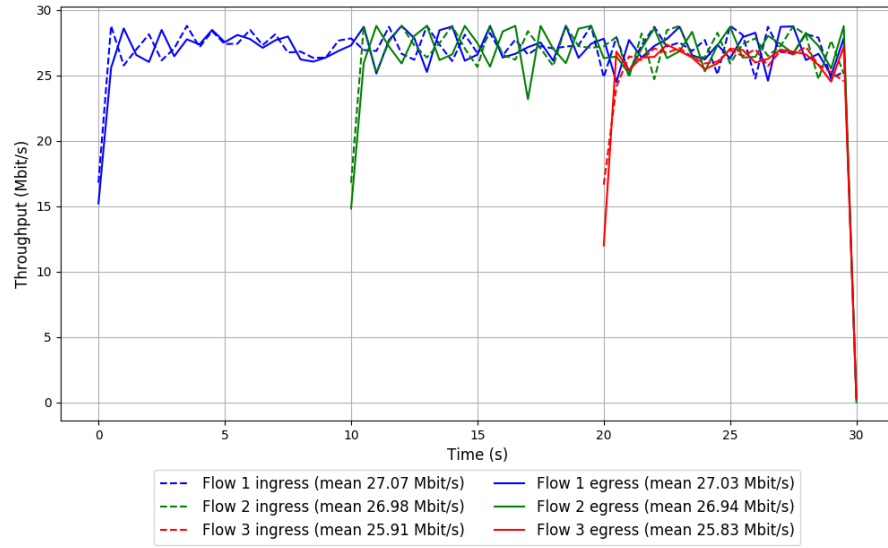
-- Flow 3:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 58.444 ms

Loss rate: 0.30%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: Tue, 01 Aug 2017 01:30:57 +0000

End at: Tue, 01 Aug 2017 01:31:27 +0000

Local clock offset: 0.713 ms

Remote clock offset: 1.299 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.77 Mbit/s

95th percentile per-packet one-way delay: 59.303 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 59.192 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 59.249 ms

Loss rate: 0.81%

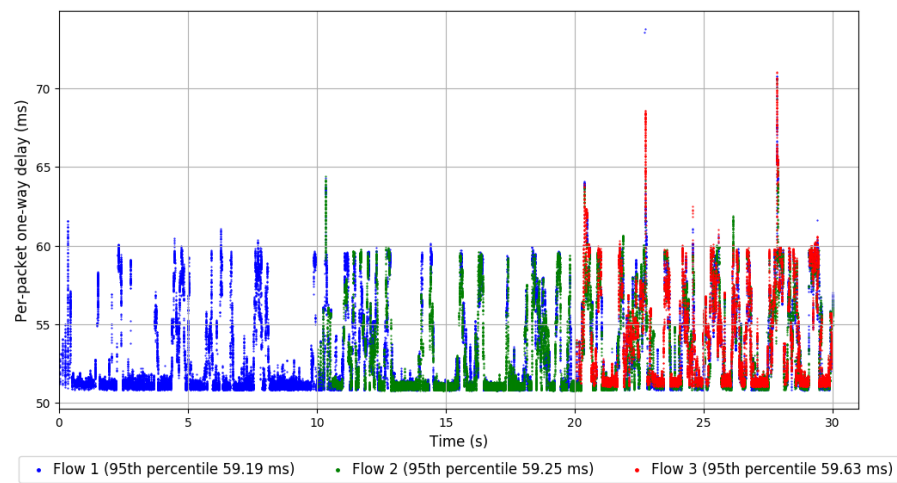
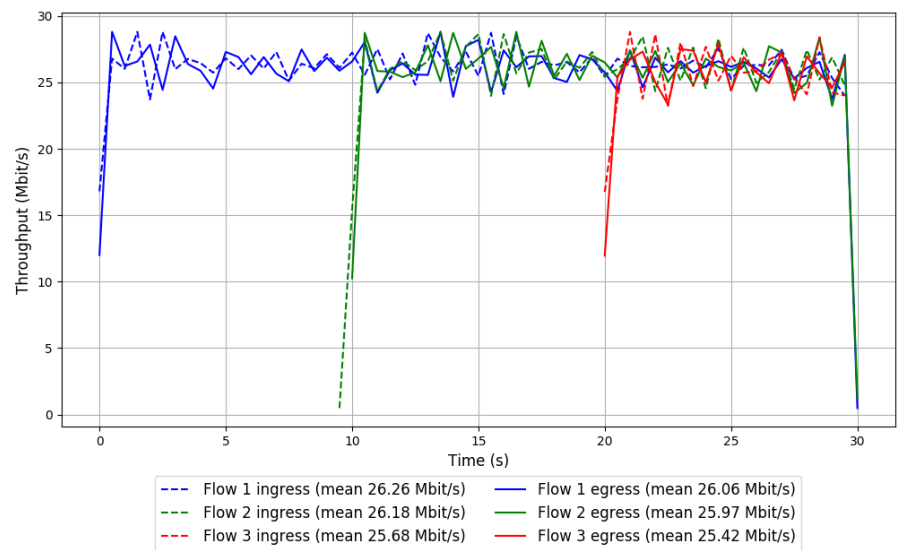
-- Flow 3:

Average throughput: 25.42 Mbit/s

95th percentile per-packet one-way delay: 59.631 ms

Loss rate: 0.94%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SReAM

Start at: Mon, 31 Jul 2017 22:18:54 +0000

End at: Mon, 31 Jul 2017 22:19:24 +0000

Local clock offset: 0.498 ms

Remote clock offset: -0.001 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 51.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.630 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.594 ms

Loss rate: 0.00%

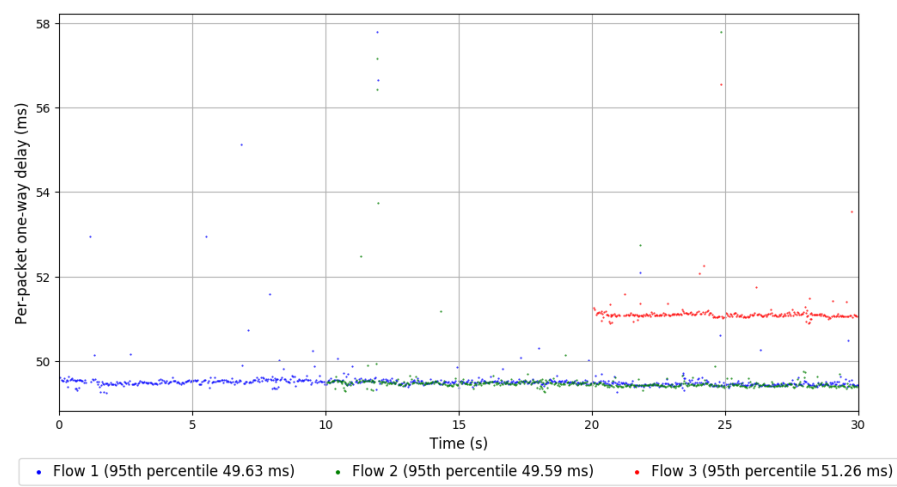
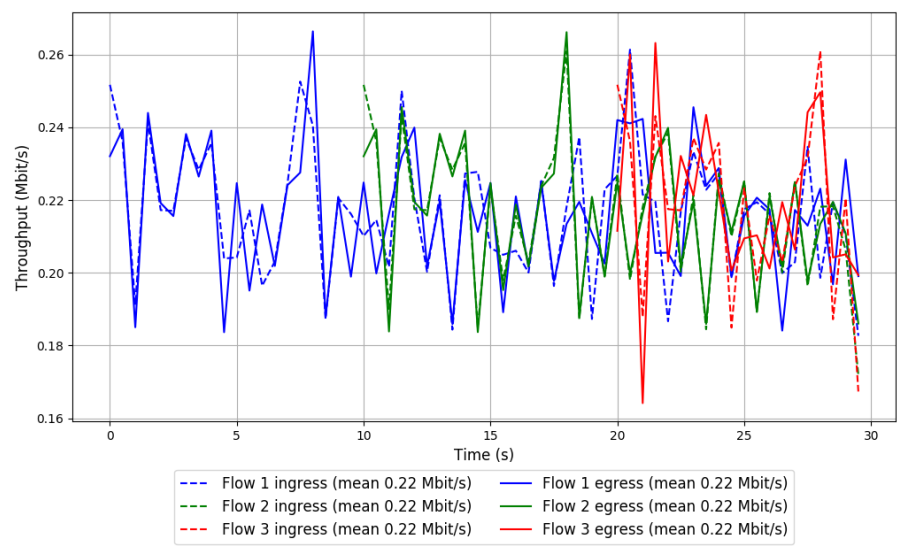
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: Mon, 31 Jul 2017 22:39:52 +0000

End at: Mon, 31 Jul 2017 22:40:22 +0000

Local clock offset: 0.6 ms

Remote clock offset: -2.058 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 48.487 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.003 ms

Loss rate: 0.00%

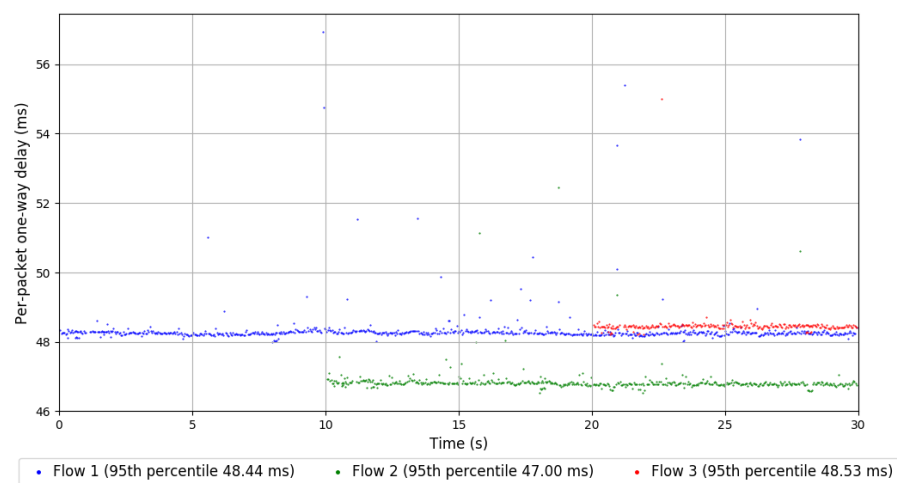
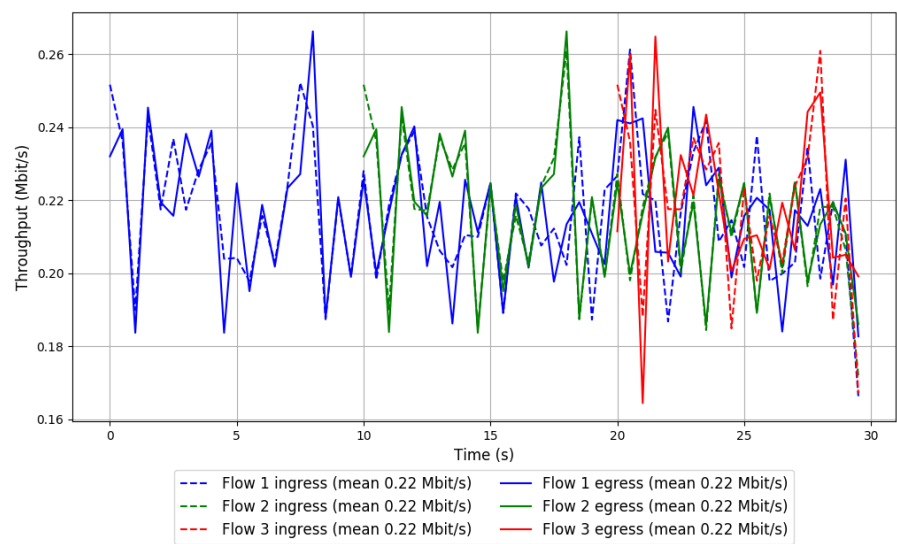
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.527 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: Mon, 31 Jul 2017 23:00:47 +0000

End at: Mon, 31 Jul 2017 23:01:17 +0000

Local clock offset: 0.601 ms

Remote clock offset: -1.575 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 48.981 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.288 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.899 ms

Loss rate: 0.00%

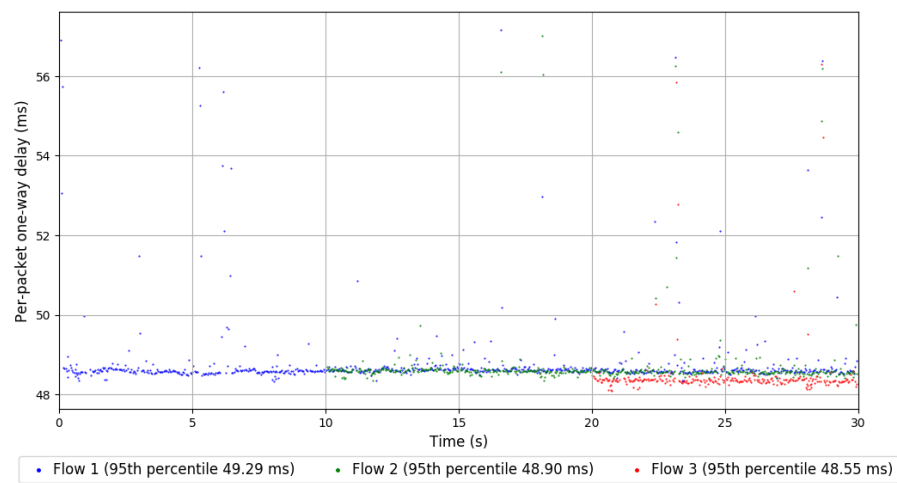
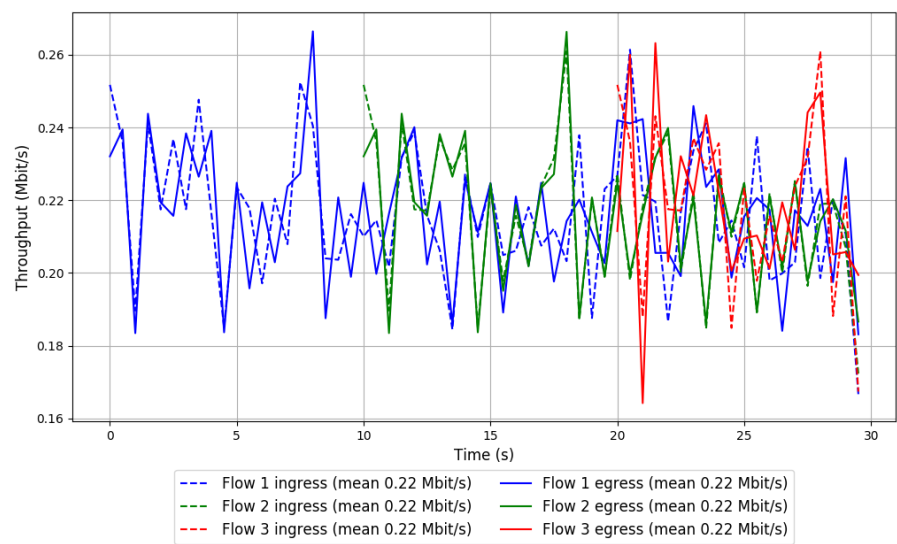
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.546 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: Mon, 31 Jul 2017 23:21:38 +0000

End at: Mon, 31 Jul 2017 23:22:08 +0000

Local clock offset: 0.52 ms

Remote clock offset: 0.738 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 50.978 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 50.879 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 51.216 ms

Loss rate: 0.87%

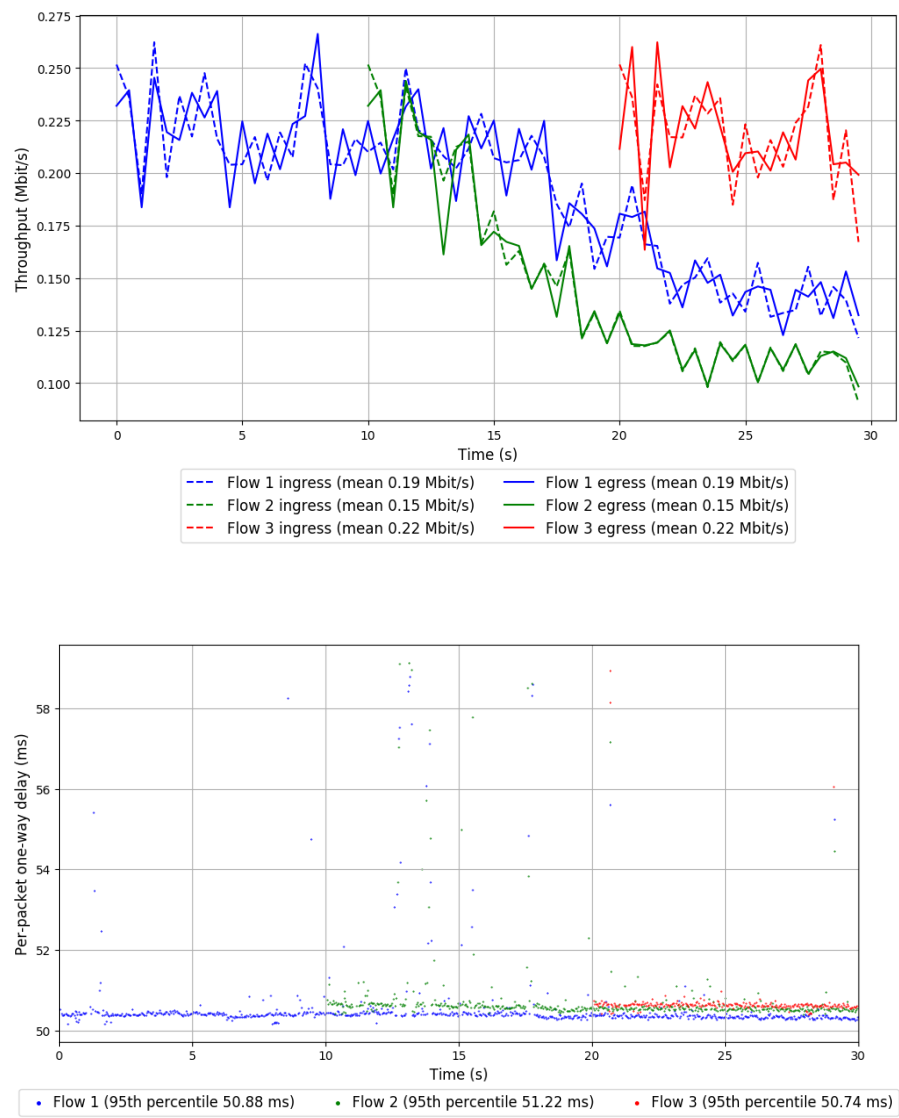
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.738 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: Mon, 31 Jul 2017 23:42:26 +0000

End at: Mon, 31 Jul 2017 23:42:56 +0000

Local clock offset: 0.501 ms

Remote clock offset: 0.886 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 50.761 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.106 ms

Loss rate: 0.00%

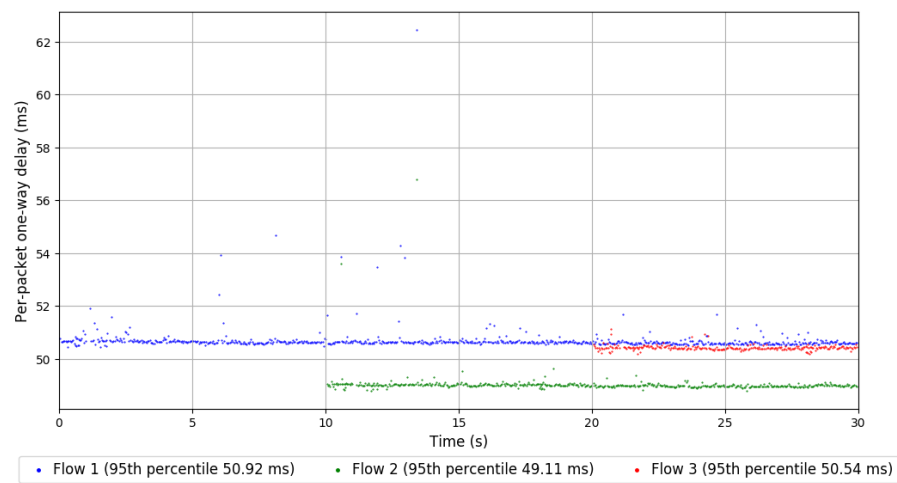
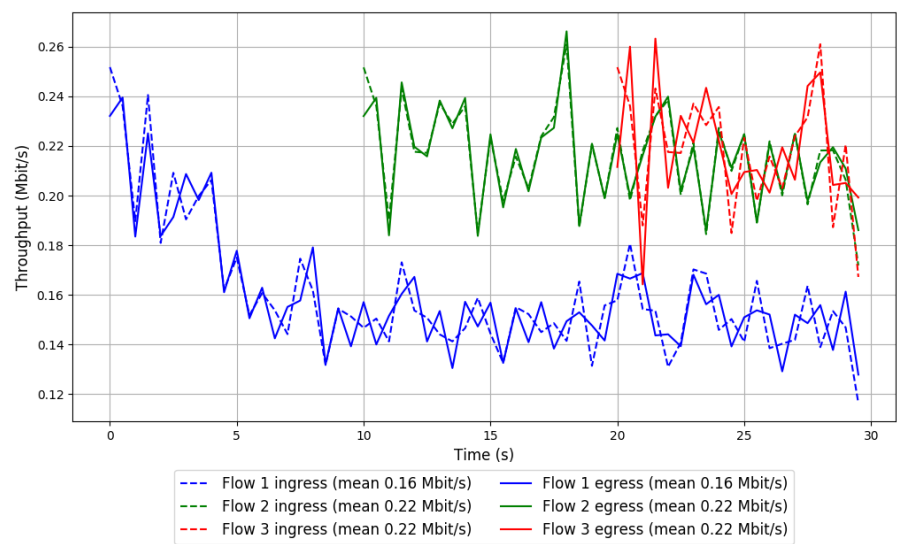
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.539 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: Tue, 01 Aug 2017 00:03:33 +0000

End at: Tue, 01 Aug 2017 00:04:03 +0000

Local clock offset: 0.602 ms

Remote clock offset: -1.105 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 48.710 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.563 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.571 ms

Loss rate: 0.00%

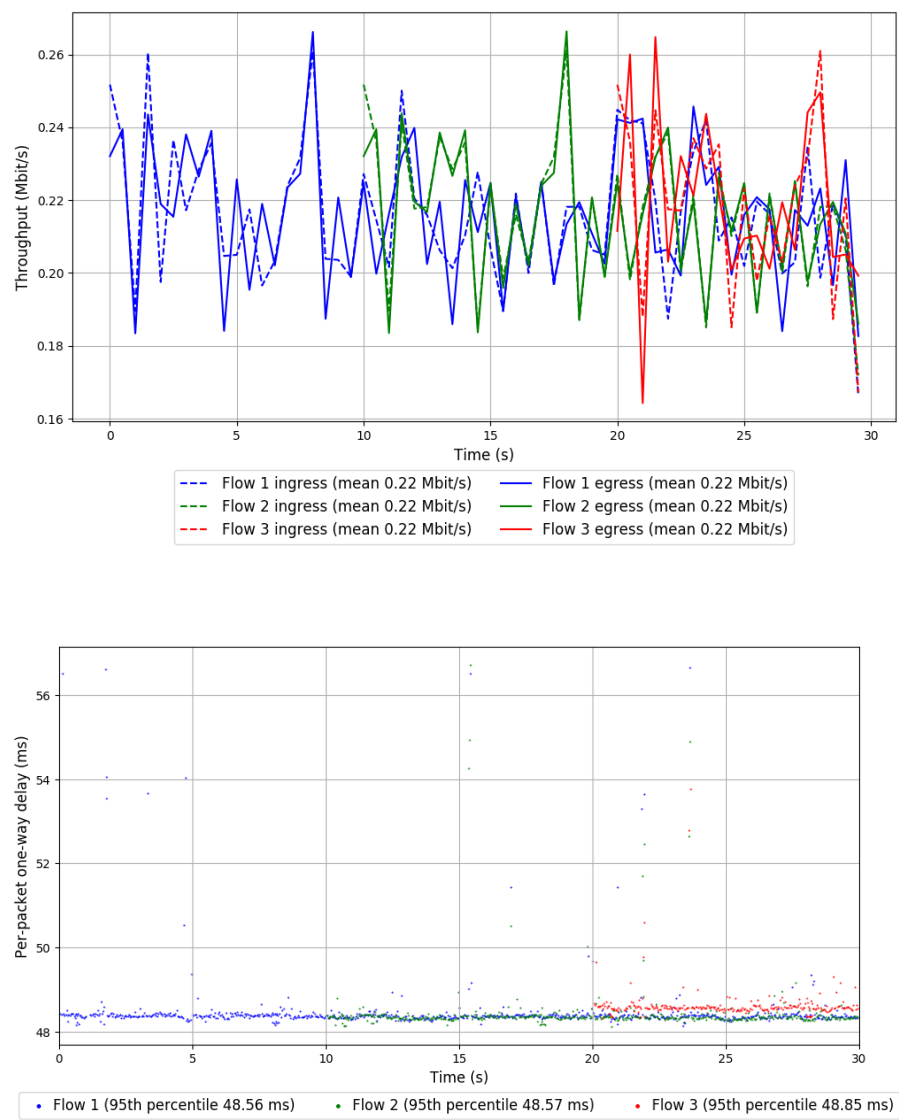
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.849 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: Tue, 01 Aug 2017 00:24:52 +0000

End at: Tue, 01 Aug 2017 00:25:22 +0000

Local clock offset: 0.651 ms

Remote clock offset: 1.101 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 52.899 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 54.689 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 52.893 ms

Loss rate: 0.24%

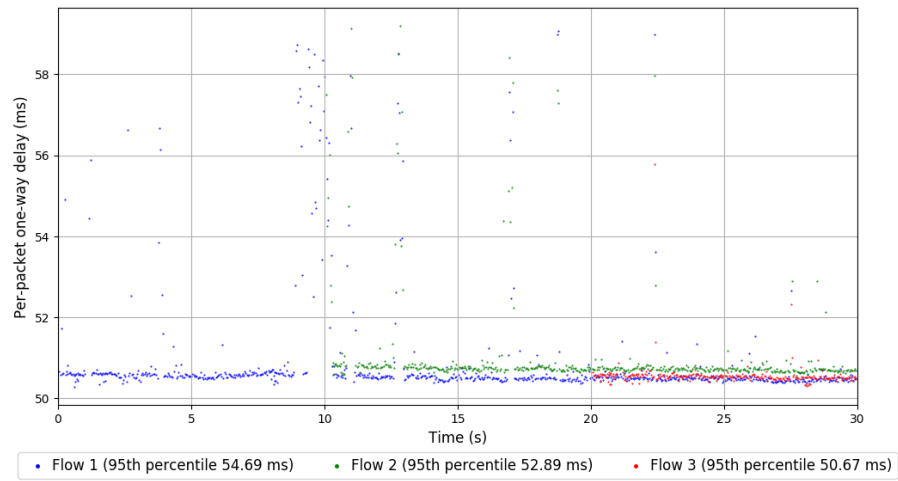
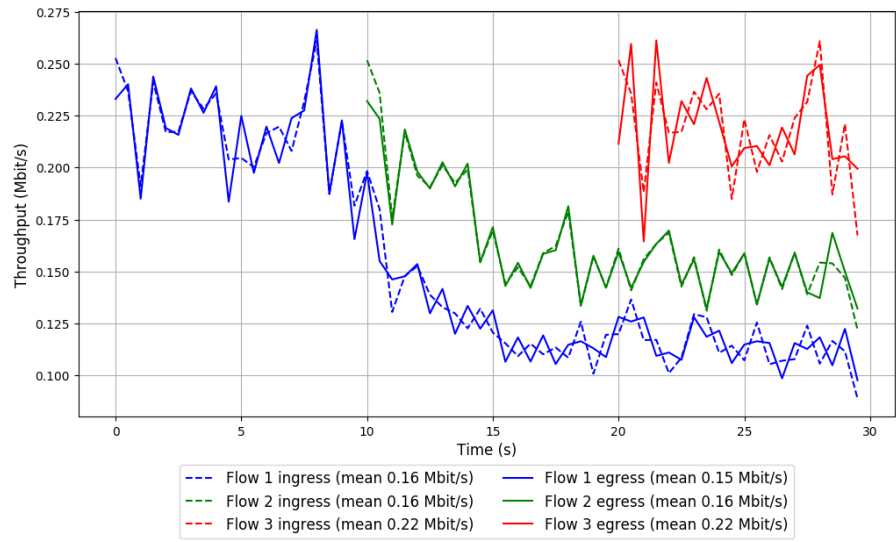
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.00%

Run 7: Report of SCRaM — Data Link



Run 8: Statistics of SReAM

Start at: Tue, 01 Aug 2017 00:46:05 +0000

End at: Tue, 01 Aug 2017 00:46:35 +0000

Local clock offset: 0.758 ms

Remote clock offset: -1.048 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.653 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.890 ms

Loss rate: 0.00%

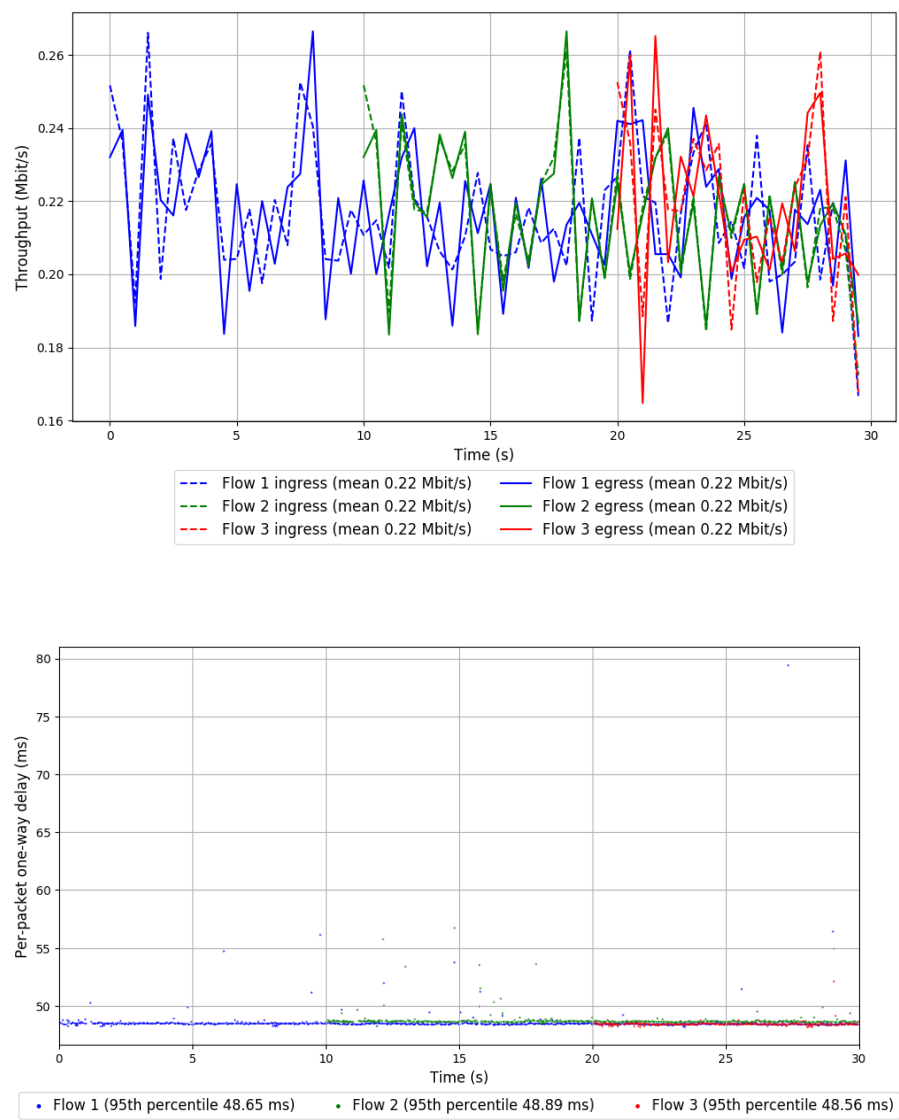
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.564 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

End at: Tue, 01 Aug 2017 01:08:04 +0000

Local clock offset: 0.817 ms

Remote clock offset: -1.14 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 54.896 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 53.890 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 55.877 ms

Loss rate: 0.00%

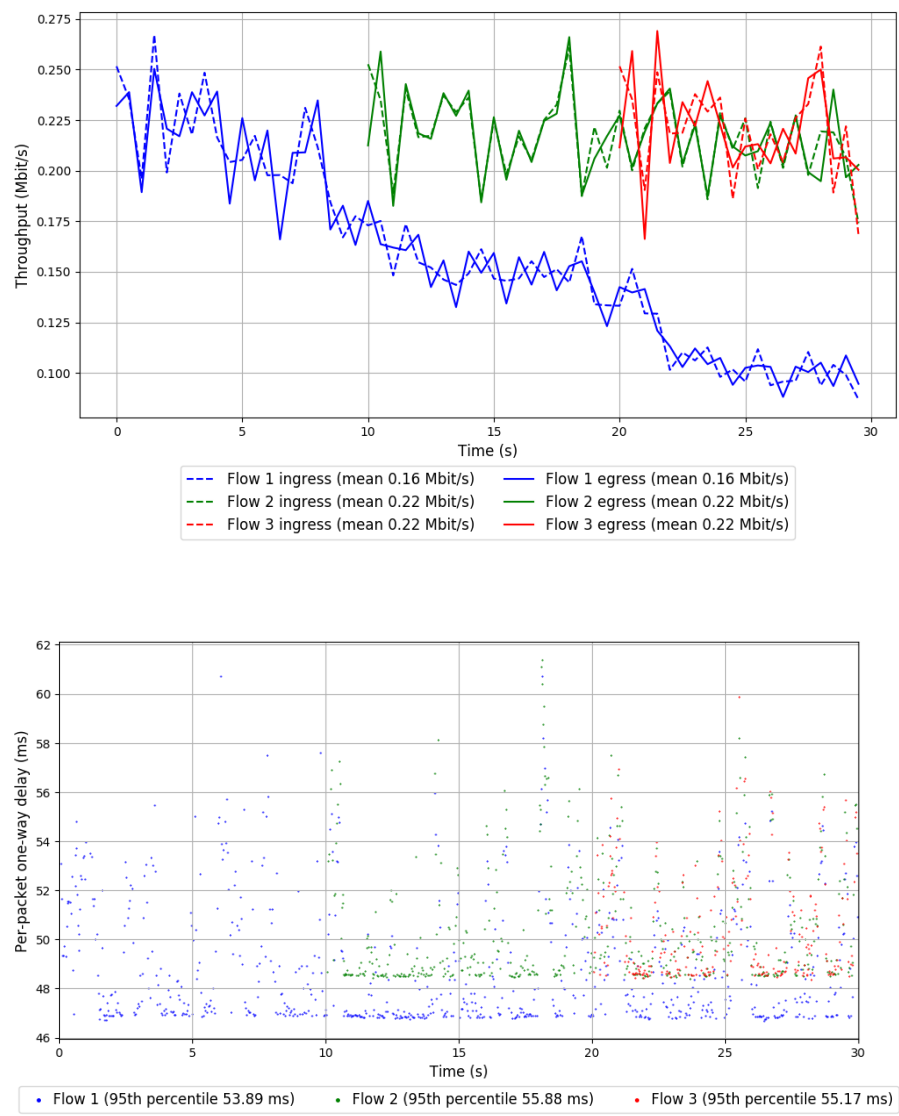
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 55.166 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: Tue, 01 Aug 2017 01:29:37 +0000

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

Local clock offset: 0.703 ms

Remote clock offset: 1.324 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

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

Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 58.041 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 58.857 ms

Loss rate: 0.20%

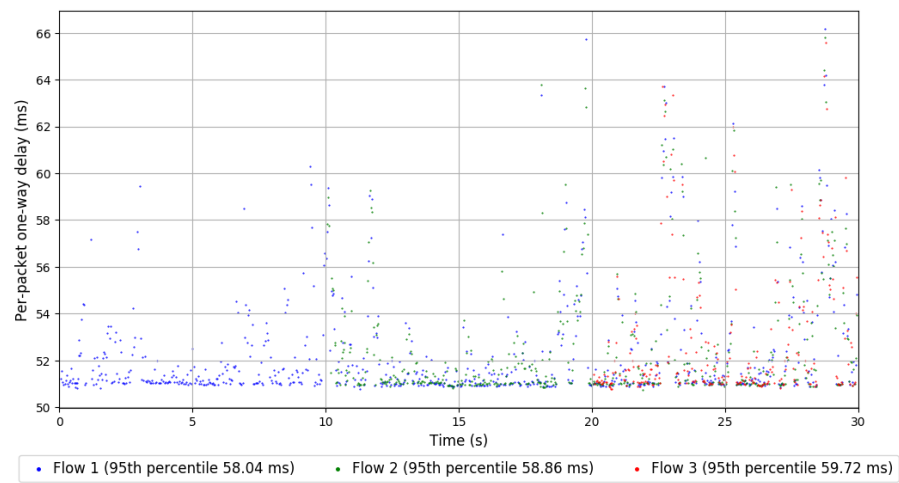
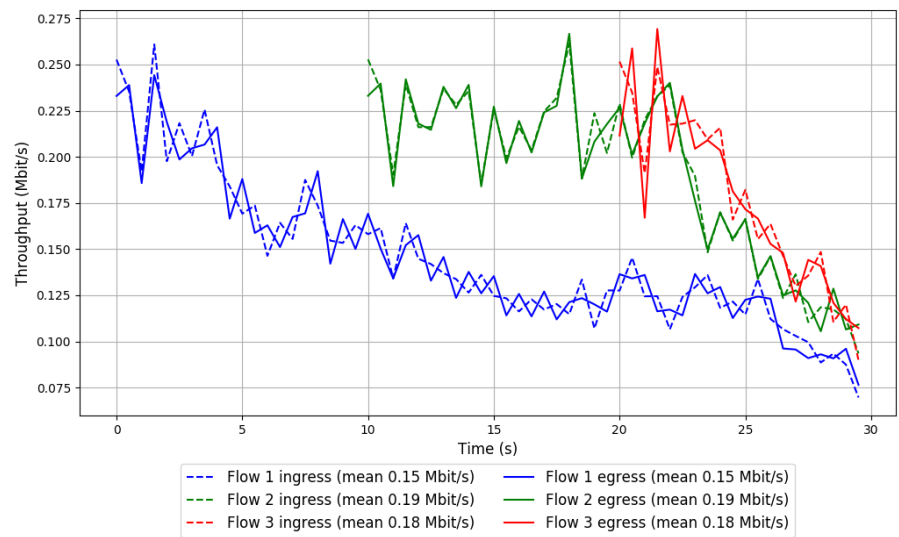
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 59.720 ms

Loss rate: 0.80%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Mon, 31 Jul 2017 22:24:30 +0000

End at: Mon, 31 Jul 2017 22:25:00 +0000

Local clock offset: 0.572 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.46 Mbit/s

95th percentile per-packet one-way delay: 57.234 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 9.38 Mbit/s

95th percentile per-packet one-way delay: 56.538 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 9.28 Mbit/s

95th percentile per-packet one-way delay: 57.705 ms

Loss rate: 0.05%

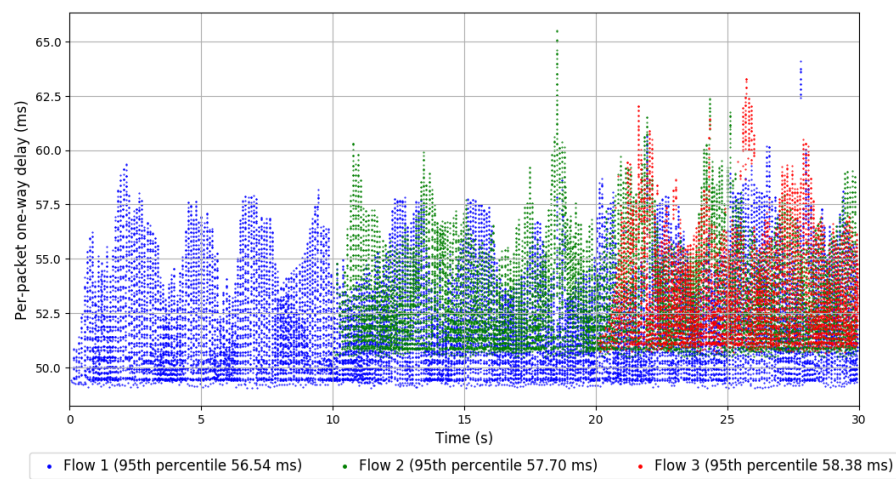
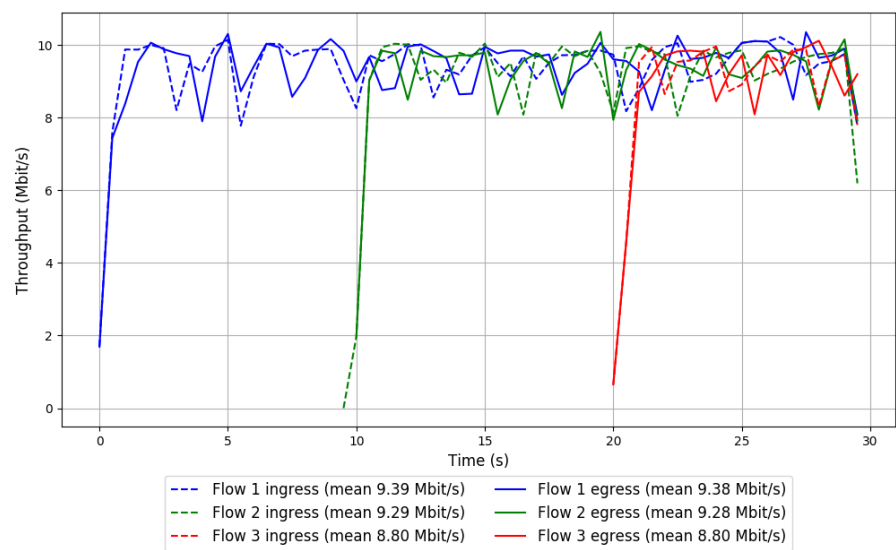
-- Flow 3:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 58.385 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Mon, 31 Jul 2017 22:45:27 +0000

End at: Mon, 31 Jul 2017 22:45:57 +0000

Local clock offset: 0.616 ms

Remote clock offset: 0.305 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.38 Mbit/s

95th percentile per-packet one-way delay: 57.543 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 57.454 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 56.451 ms

Loss rate: 0.22%

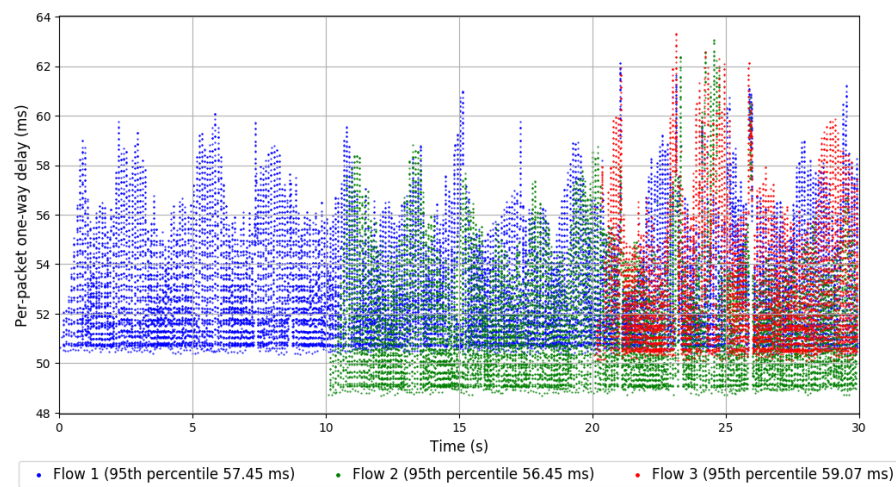
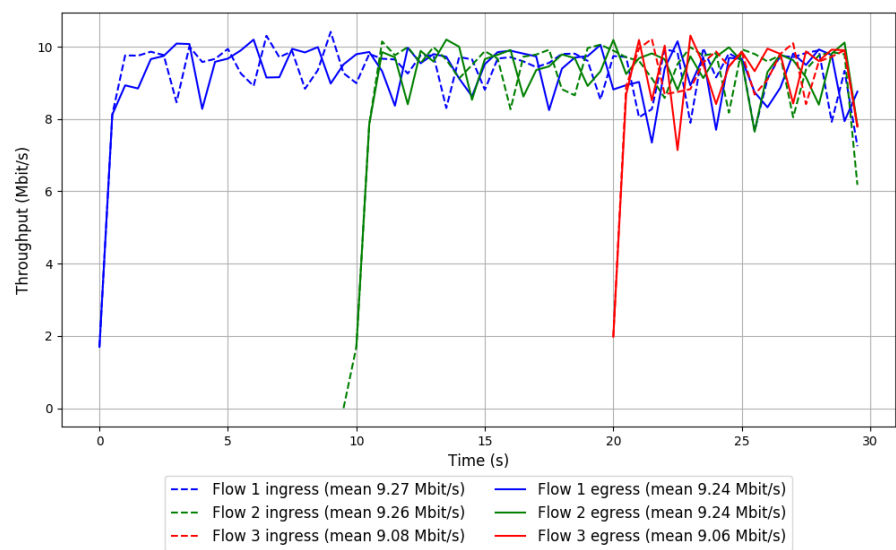
-- Flow 3:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 59.068 ms

Loss rate: 0.26%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Mon, 31 Jul 2017 23:06:22 +0000

End at: Mon, 31 Jul 2017 23:06:52 +0000

Local clock offset: 0.543 ms

Remote clock offset: -1.45 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.95 Mbit/s

95th percentile per-packet one-way delay: 56.412 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 9.15 Mbit/s

95th percentile per-packet one-way delay: 56.245 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 55.946 ms

Loss rate: 0.86%

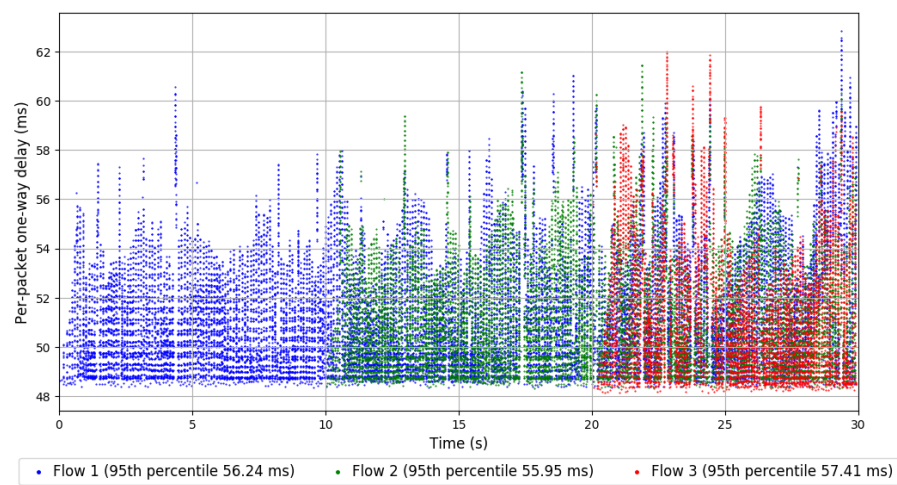
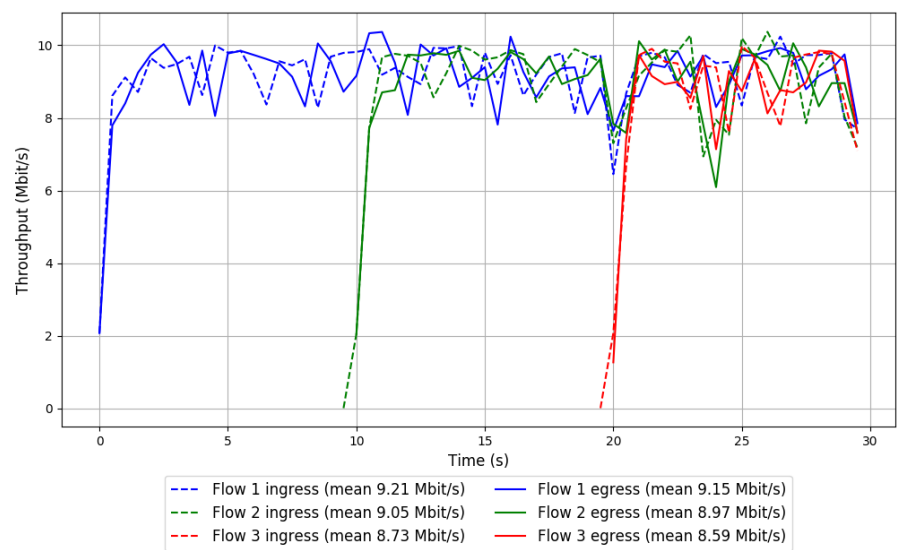
-- Flow 3:

Average throughput: 8.59 Mbit/s

95th percentile per-packet one-way delay: 57.408 ms

Loss rate: 1.63%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: Mon, 31 Jul 2017 23:27:12 +0000

End at: Mon, 31 Jul 2017 23:27:42 +0000

Local clock offset: 0.38 ms

Remote clock offset: -1.254 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 55.640 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 9.18 Mbit/s

95th percentile per-packet one-way delay: 55.567 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.22 Mbit/s

95th percentile per-packet one-way delay: 55.304 ms

Loss rate: 0.06%

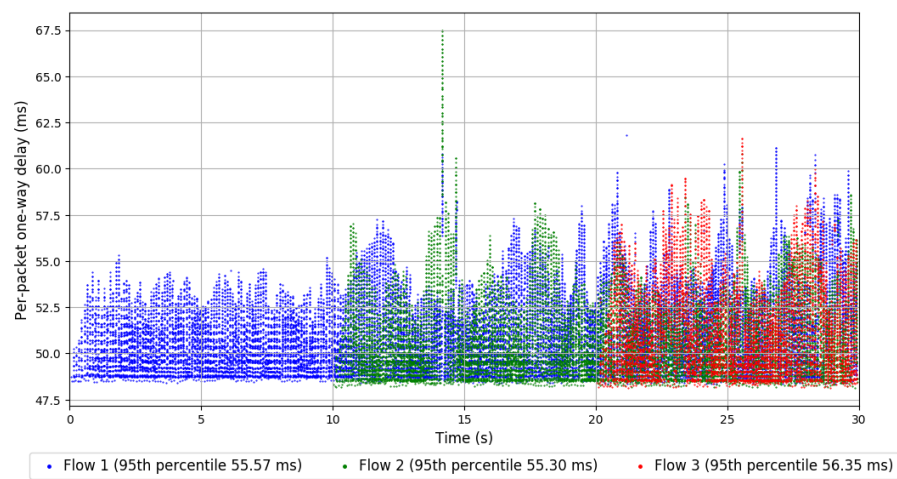
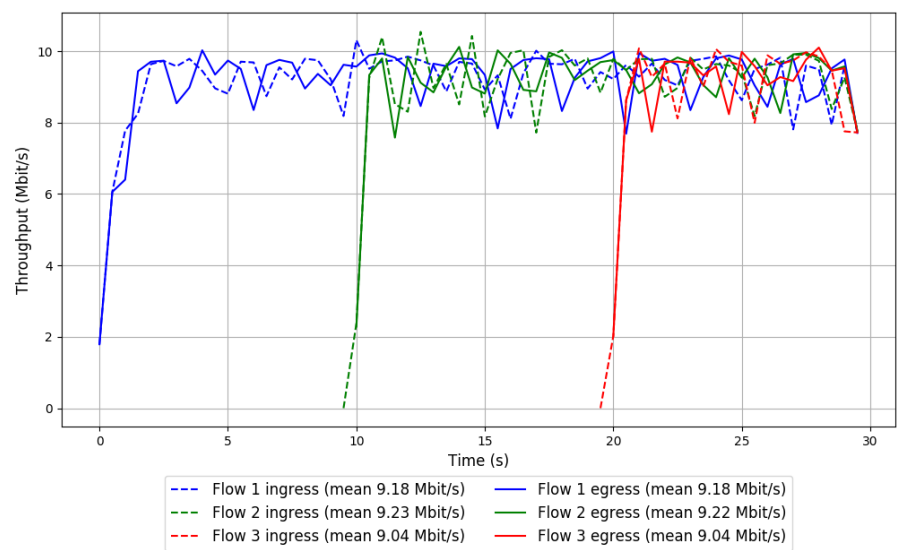
-- Flow 3:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 56.346 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: Mon, 31 Jul 2017 23:48:01 +0000

End at: Mon, 31 Jul 2017 23:48:31 +0000

Local clock offset: 0.404 ms

Remote clock offset: 0.855 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 57.127 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 57.395 ms

Loss rate: 0.00%

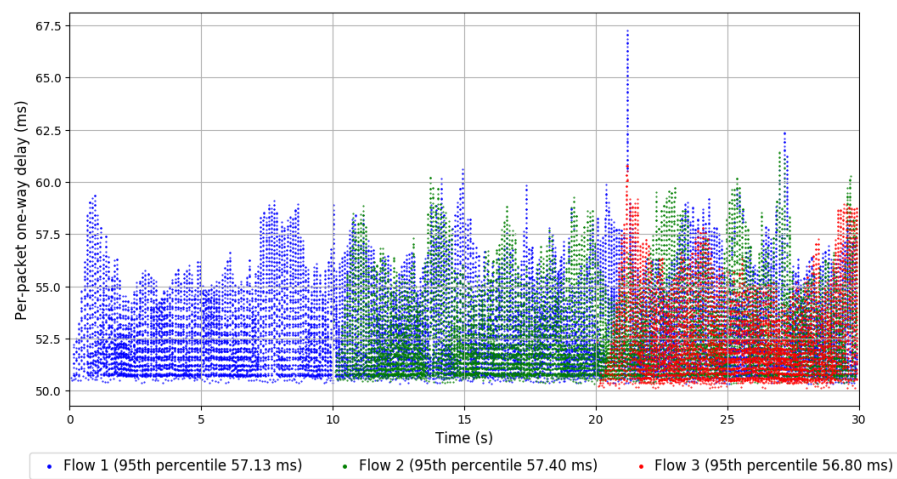
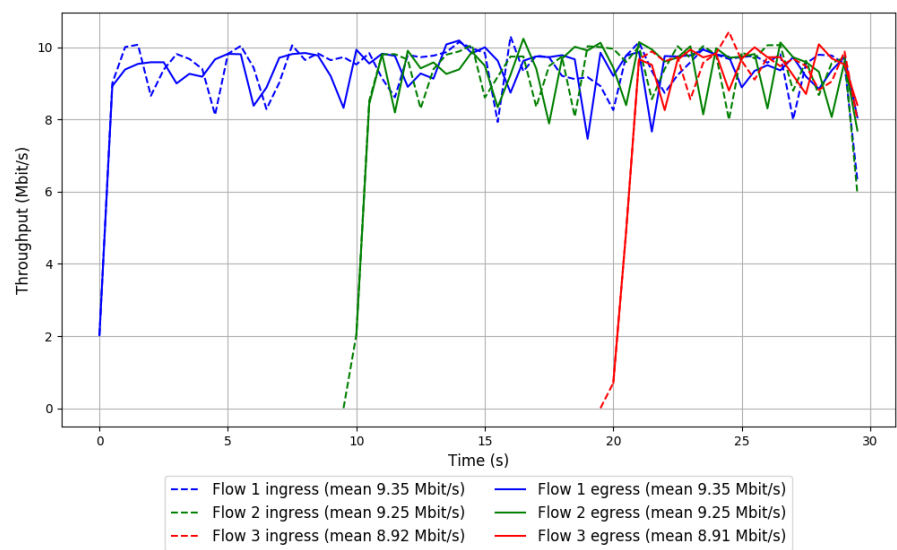
-- Flow 3:

Average throughput: 8.91 Mbit/s

95th percentile per-packet one-way delay: 56.799 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Tue, 01 Aug 2017 00:09:18 +0000

End at: Tue, 01 Aug 2017 00:09:48 +0000

Local clock offset: 0.664 ms

Remote clock offset: 0.967 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.48 Mbit/s

95th percentile per-packet one-way delay: 57.485 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 57.460 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 57.516 ms

Loss rate: 0.00%

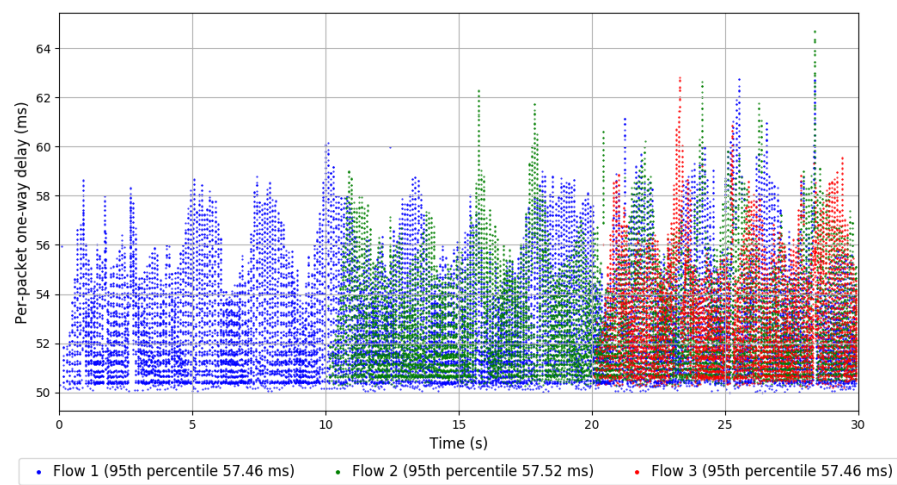
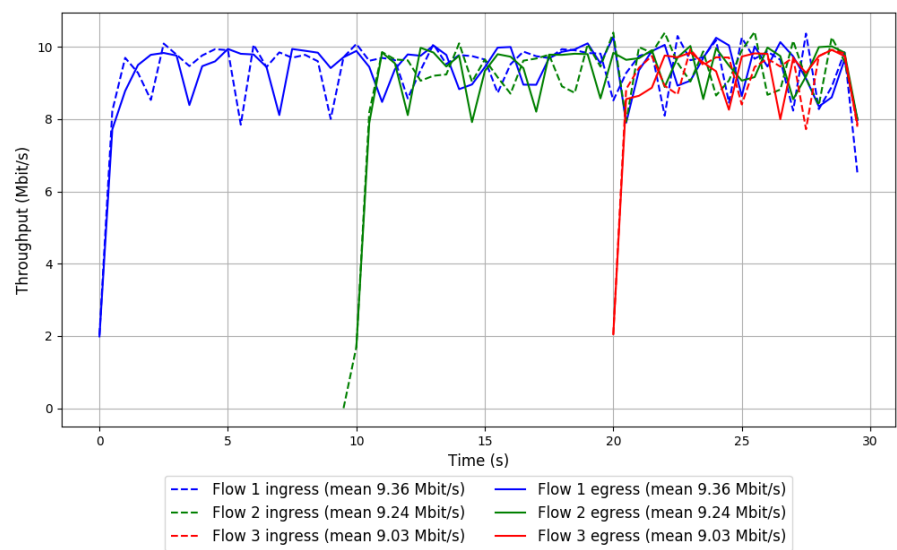
-- Flow 3:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 57.460 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: Tue, 01 Aug 2017 00:30:31 +0000

End at: Tue, 01 Aug 2017 00:31:01 +0000

Local clock offset: 0.677 ms

Remote clock offset: -1.046 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 55.616 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 55.869 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 55.258 ms

Loss rate: 0.11%

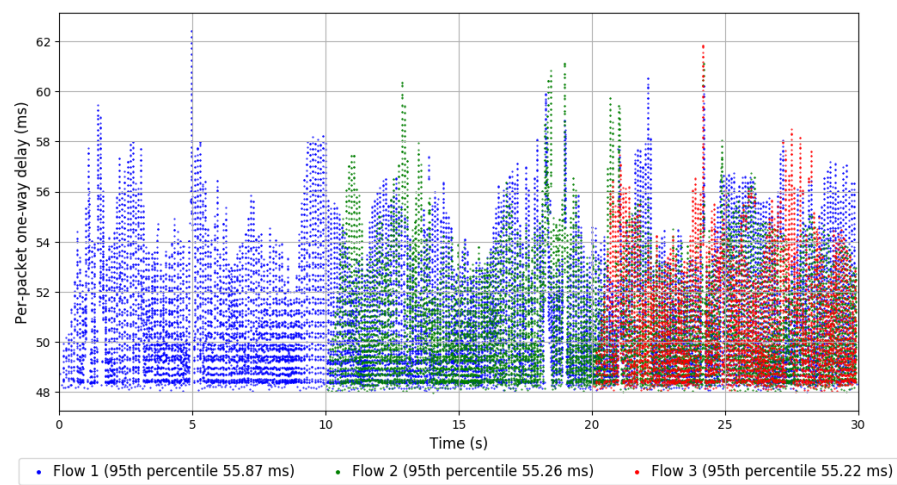
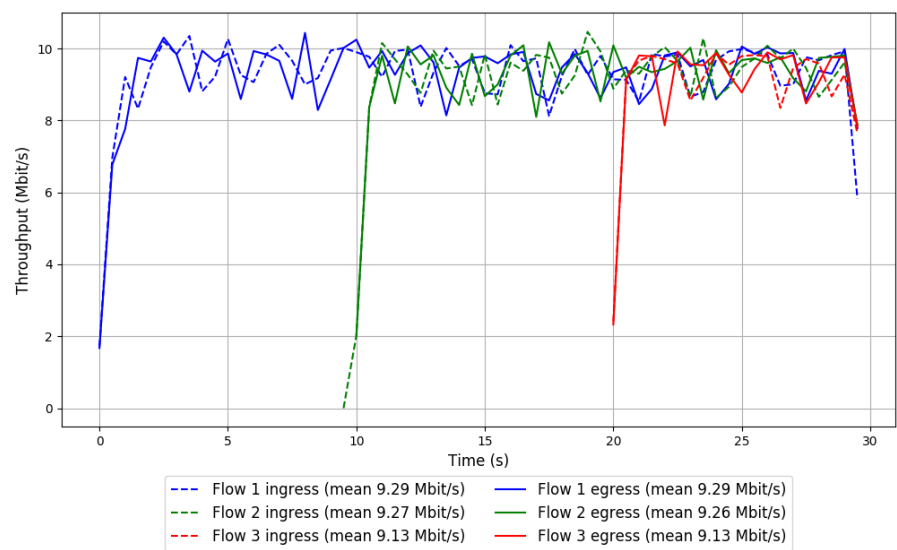
-- Flow 3:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 55.219 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Tue, 01 Aug 2017 00:51:40 +0000

End at: Tue, 01 Aug 2017 00:52:10 +0000

Local clock offset: 0.849 ms

Remote clock offset: 1.557 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.39 Mbit/s

95th percentile per-packet one-way delay: 58.159 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.37 Mbit/s

95th percentile per-packet one-way delay: 58.252 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 58.319 ms

Loss rate: 0.00%

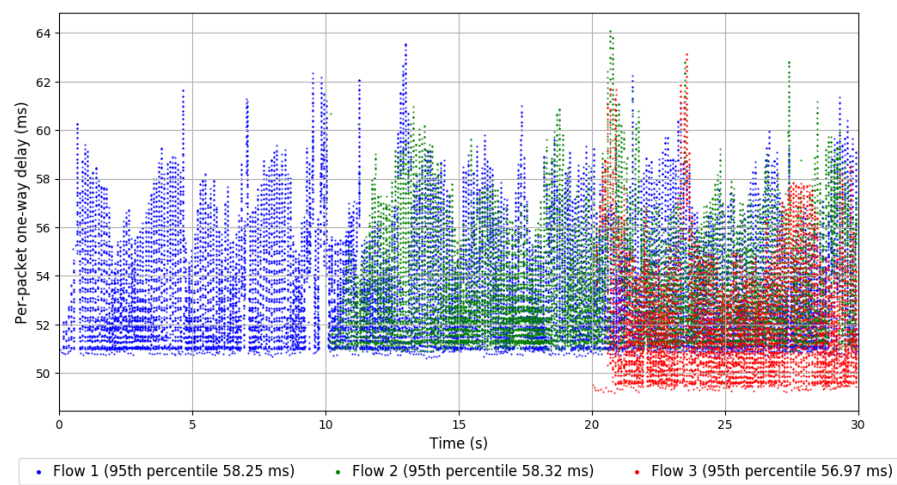
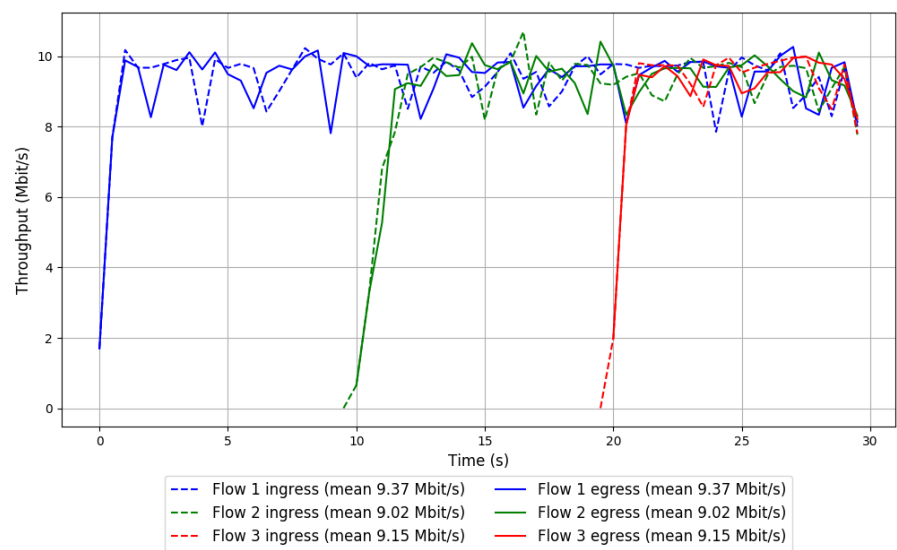
-- Flow 3:

Average throughput: 9.15 Mbit/s

95th percentile per-packet one-way delay: 56.969 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Tue, 01 Aug 2017 01:13:26 +0000

End at: Tue, 01 Aug 2017 01:13:56 +0000

Local clock offset: 0.754 ms

Remote clock offset: -1.132 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.85 Mbit/s

95th percentile per-packet one-way delay: 57.843 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 57.733 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 57.461 ms

Loss rate: 0.30%

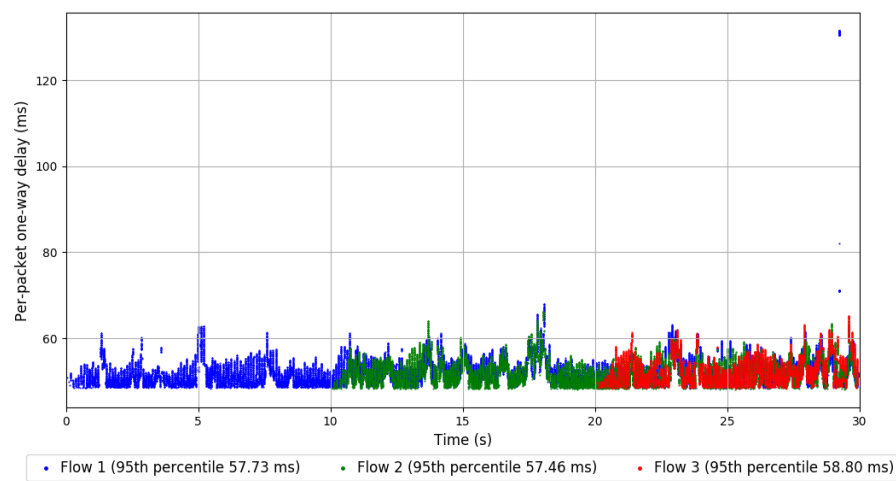
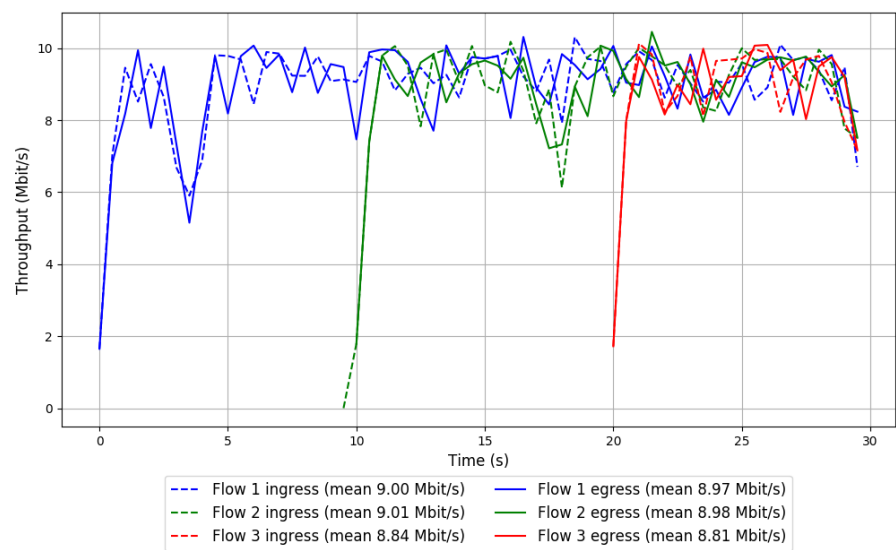
-- Flow 3:

Average throughput: 8.81 Mbit/s

95th percentile per-packet one-way delay: 58.805 ms

Loss rate: 0.21%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Tue, 01 Aug 2017 01:35:50 +0000

End at: Tue, 01 Aug 2017 01:36:20 +0000

Local clock offset: 0.708 ms

Remote clock offset: -1.376 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:48:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.98 Mbit/s

95th percentile per-packet one-way delay: 55.227 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 55.115 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 54.644 ms

Loss rate: 0.48%

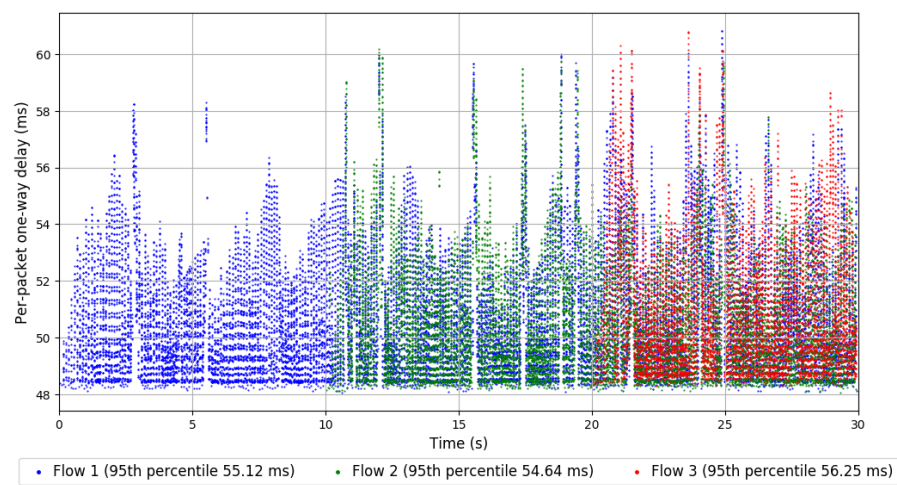
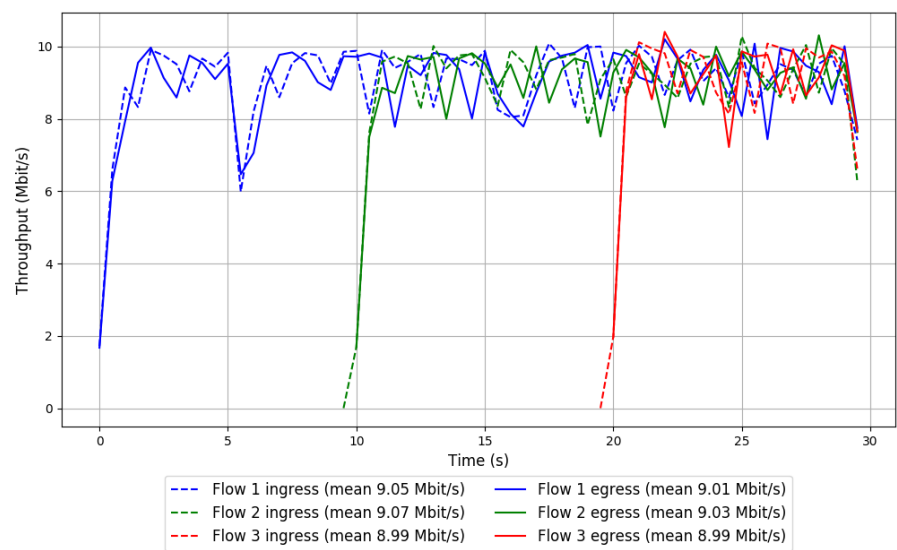
-- Flow 3:

Average throughput: 8.99 Mbit/s

95th percentile per-packet one-way delay: 56.251 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Mon, 31 Jul 2017 22:21:37 +0000

End at: Mon, 31 Jul 2017 22:22:08 +0000

Local clock offset: 0.478 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:49:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.22 Mbit/s

95th percentile per-packet one-way delay: 85.951 ms

Loss rate: 14.21%

-- Flow 1:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 84.842 ms

Loss rate: 11.21%

-- Flow 2:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 86.129 ms

Loss rate: 18.95%

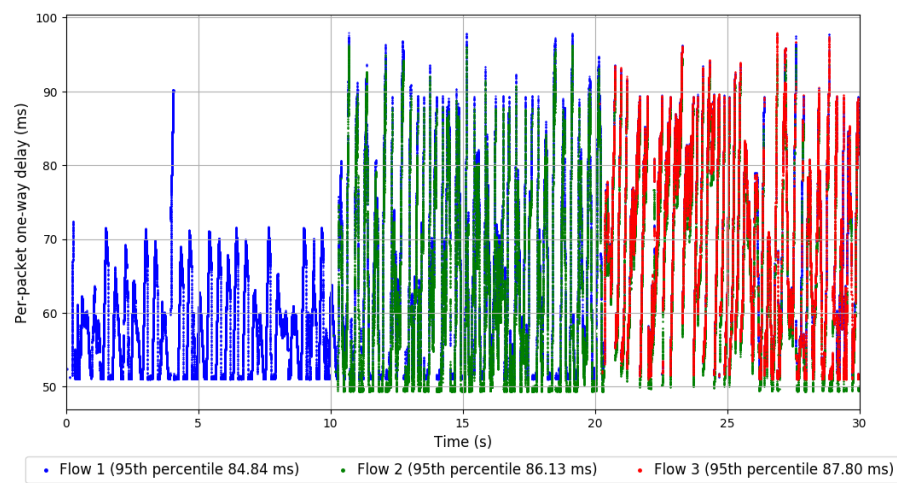
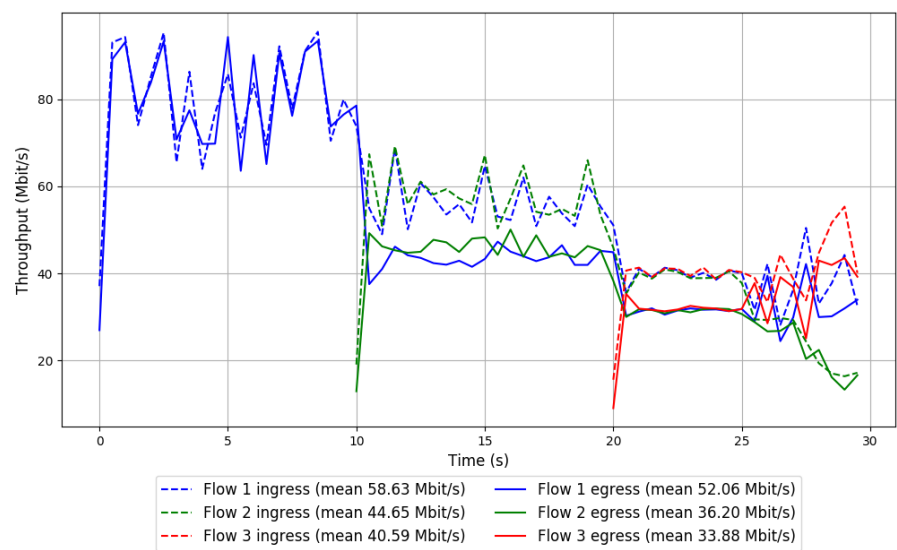
-- Flow 3:

Average throughput: 33.88 Mbit/s

95th percentile per-packet one-way delay: 87.795 ms

Loss rate: 16.86%

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



Run 2: Statistics of TaoVA-100x

Start at: Mon, 31 Jul 2017 22:42:35 +0000

End at: Mon, 31 Jul 2017 22:43:05 +0000

Local clock offset: 0.541 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:49:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 84.963 ms

Loss rate: 16.30%

-- Flow 1:

Average throughput: 54.99 Mbit/s

95th percentile per-packet one-way delay: 83.659 ms

Loss rate: 13.17%

-- Flow 2:

Average throughput: 43.98 Mbit/s

95th percentile per-packet one-way delay: 86.368 ms

Loss rate: 21.62%

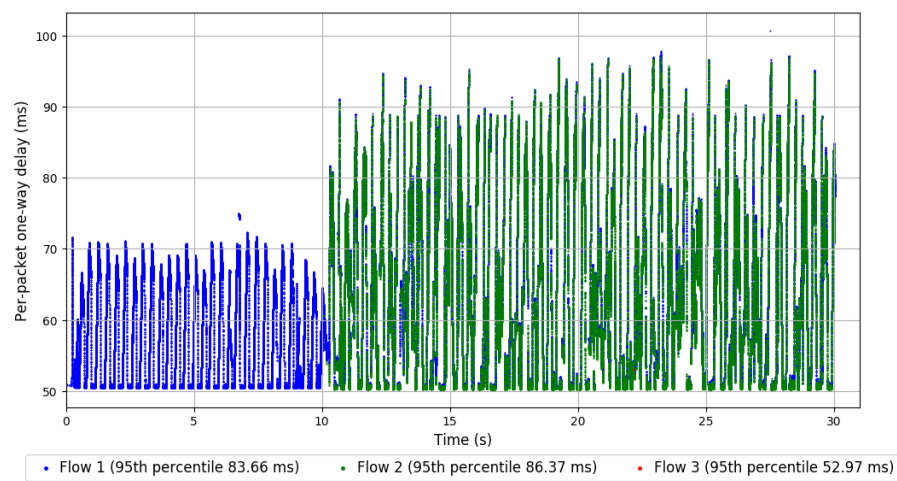
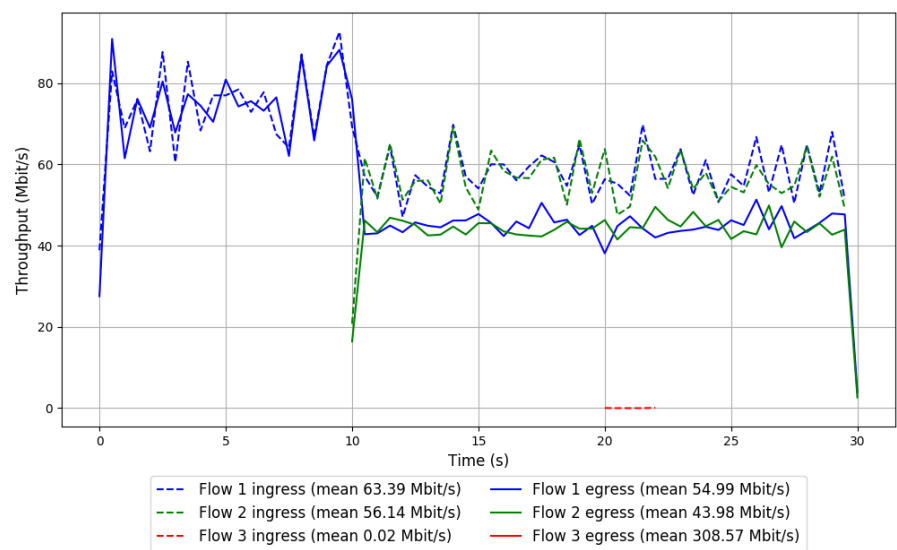
-- Flow 3:

Average throughput: 308.57 Mbit/s

95th percentile per-packet one-way delay: 52.973 ms

Loss rate: 75.00%

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



Run 3: Statistics of TaoVA-100x

Start at: Mon, 31 Jul 2017 23:03:31 +0000

End at: Mon, 31 Jul 2017 23:04:01 +0000

Local clock offset: 0.553 ms

Remote clock offset: 0.619 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:49:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.35 Mbit/s

95th percentile per-packet one-way delay: 84.642 ms

Loss rate: 15.40%

-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 82.774 ms

Loss rate: 12.01%

-- Flow 2:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 86.472 ms

Loss rate: 20.87%

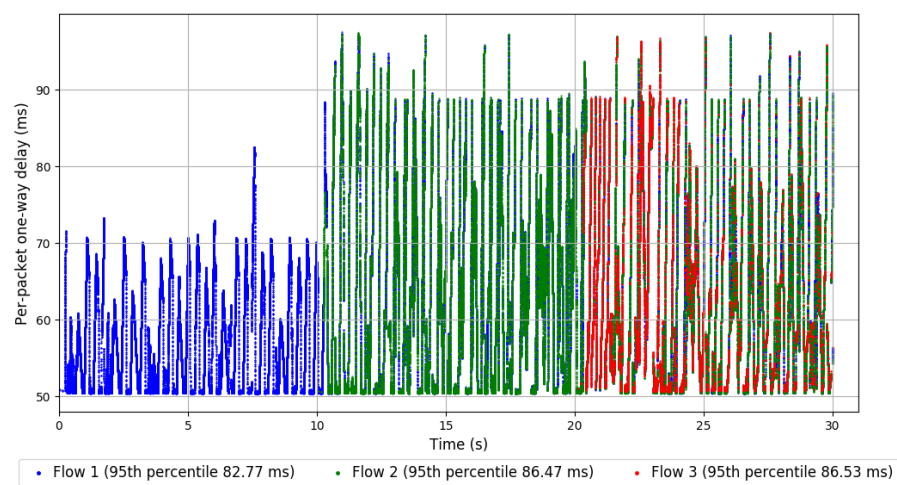
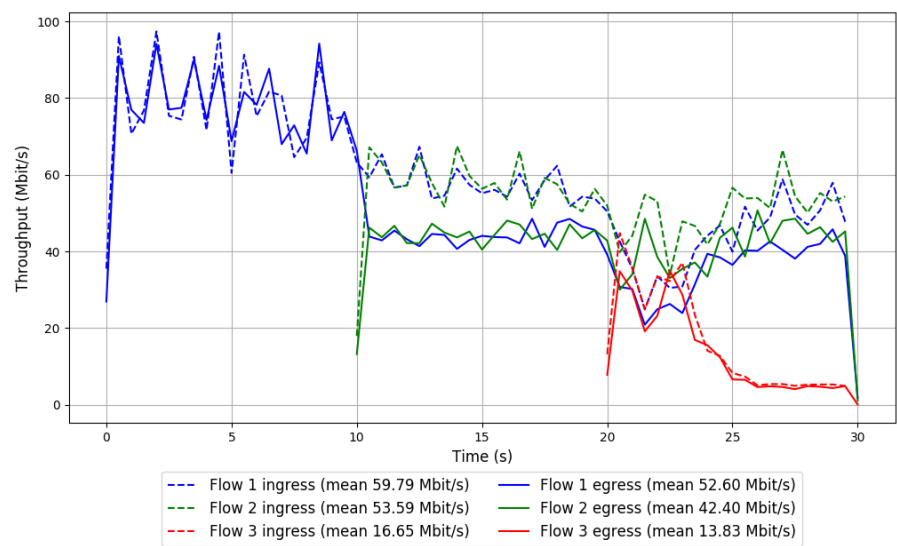
-- Flow 3:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 86.532 ms

Loss rate: 16.87%

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



Run 4: Statistics of TaoVA-100x

Start at: Mon, 31 Jul 2017 23:24:21 +0000

End at: Mon, 31 Jul 2017 23:24:51 +0000

Local clock offset: 0.401 ms

Remote clock offset: 1.265 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:49:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 85.408 ms

Loss rate: 12.82%

-- Flow 1:

Average throughput: 51.76 Mbit/s

95th percentile per-packet one-way delay: 83.628 ms

Loss rate: 9.45%

-- Flow 2:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 18.09%

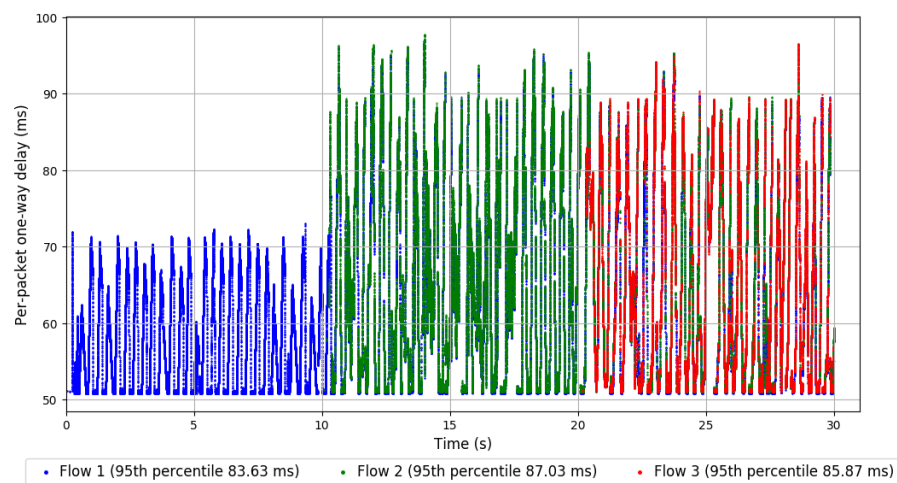
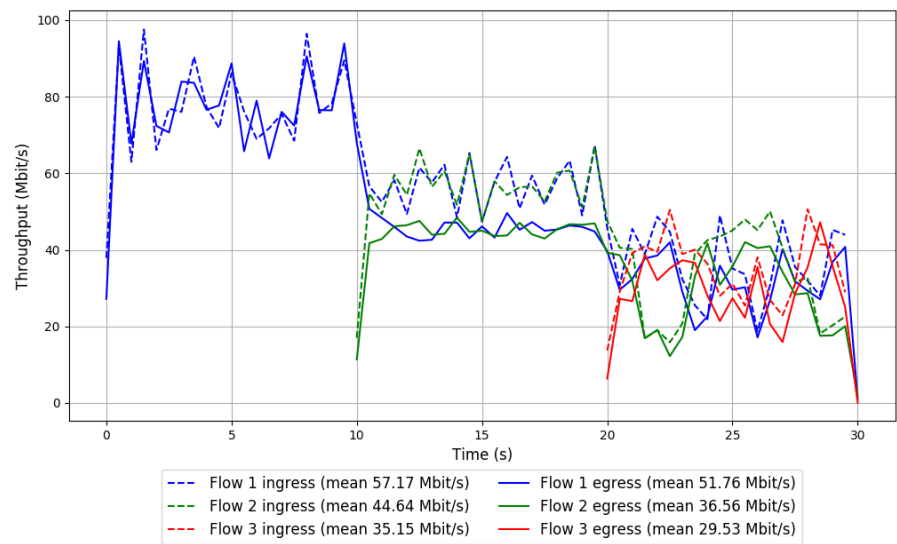
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 85.874 ms

Loss rate: 15.93%

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



Run 5: Statistics of TaoVA-100x

Start at: Mon, 31 Jul 2017 23:45:09 +0000

End at: Mon, 31 Jul 2017 23:45:39 +0000

Local clock offset: 0.495 ms

Remote clock offset: 0.825 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:49:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 82.996 ms

Loss rate: 14.35%

-- Flow 1:

Average throughput: 56.17 Mbit/s

95th percentile per-packet one-way delay: 82.020 ms

Loss rate: 11.14%

-- Flow 2:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 84.518 ms

Loss rate: 20.03%

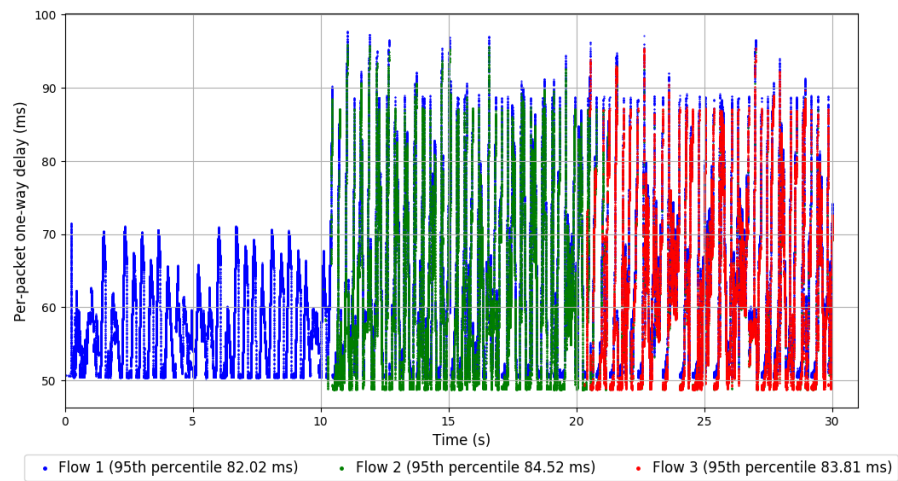
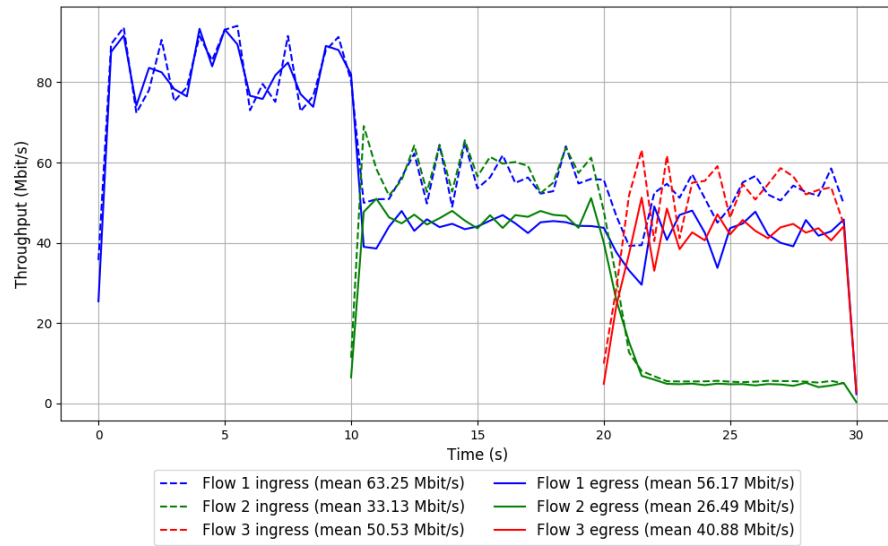
-- Flow 3:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 83.810 ms

Loss rate: 19.08%

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



Run 6: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 00:06:20 +0000

End at: Tue, 01 Aug 2017 00:06:50 +0000

Local clock offset: 0.609 ms

Remote clock offset: 1.061 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:49:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 82.817 ms

Loss rate: 14.88%

-- Flow 1:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 80.897 ms

Loss rate: 12.24%

-- Flow 2:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 84.659 ms

Loss rate: 19.12%

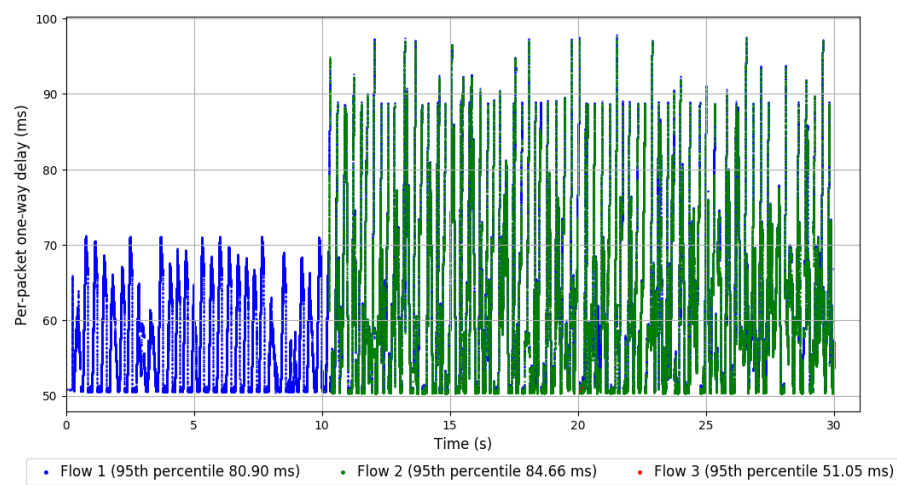
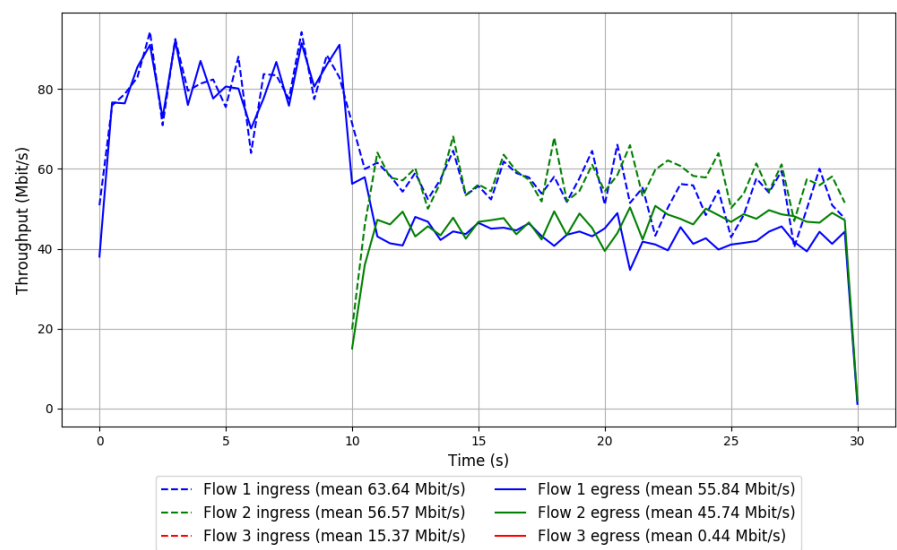
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 51.053 ms

Loss rate: 98.72%

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



Run 7: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 00:27:36 +0000

End at: Tue, 01 Aug 2017 00:28:06 +0000

Local clock offset: 0.761 ms

Remote clock offset: 1.567 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:06 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 85.763 ms

Loss rate: 15.29%

-- Flow 1:

Average throughput: 52.25 Mbit/s

95th percentile per-packet one-way delay: 83.624 ms

Loss rate: 11.35%

-- Flow 2:

Average throughput: 38.30 Mbit/s

95th percentile per-packet one-way delay: 87.458 ms

Loss rate: 21.05%

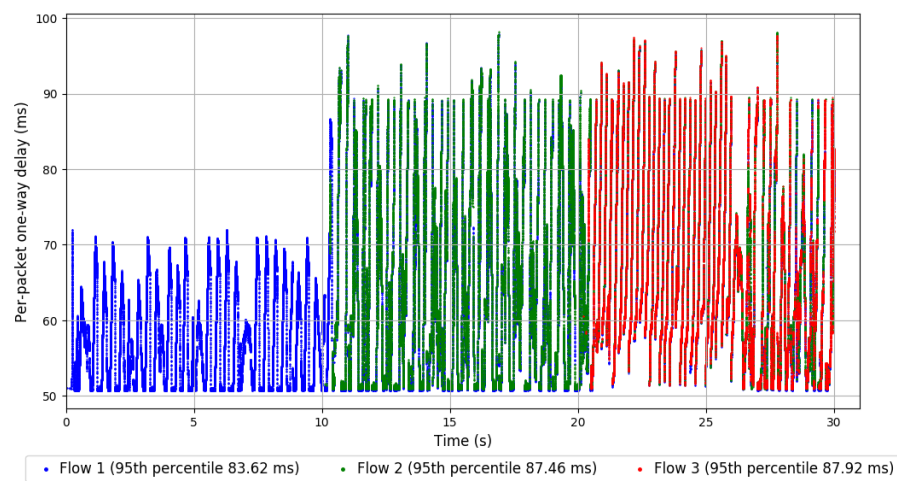
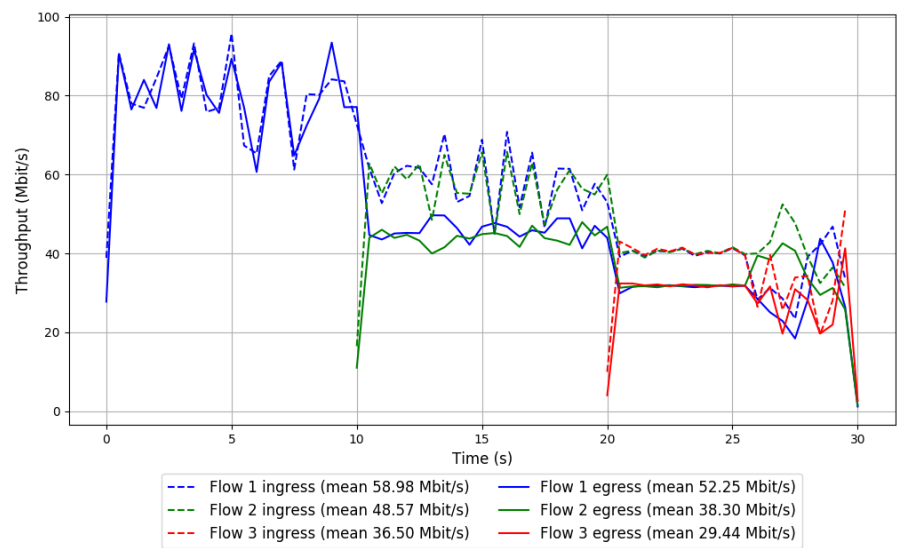
-- Flow 3:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 87.921 ms

Loss rate: 19.24%

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



Run 8: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 00:48:47 +0000

End at: Tue, 01 Aug 2017 00:49:17 +0000

Local clock offset: 0.771 ms

Remote clock offset: 1.453 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 85.097 ms

Loss rate: 14.05%

-- Flow 1:

Average throughput: 51.43 Mbit/s

95th percentile per-packet one-way delay: 82.376 ms

Loss rate: 10.64%

-- Flow 2:

Average throughput: 43.06 Mbit/s

95th percentile per-packet one-way delay: 86.807 ms

Loss rate: 18.91%

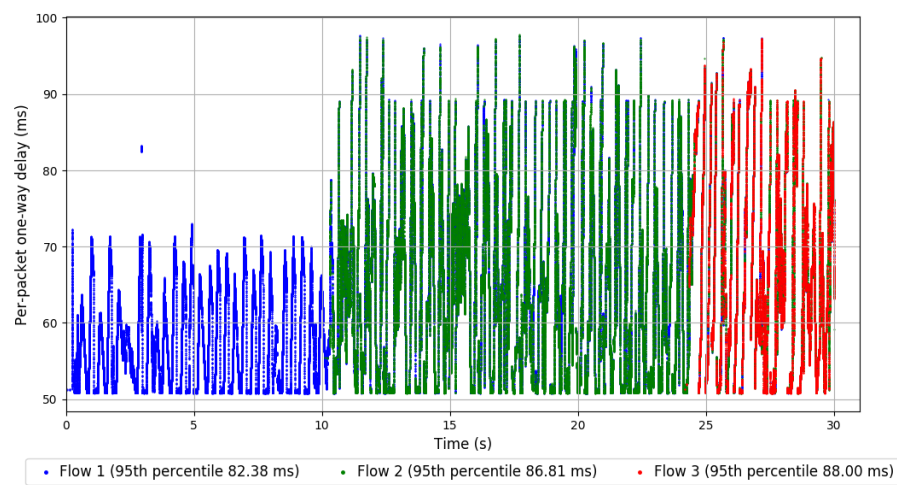
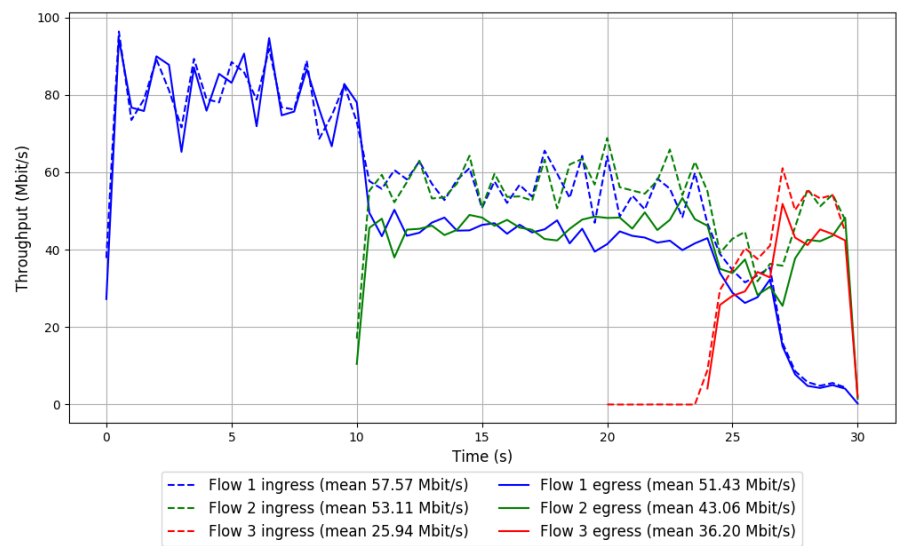
-- Flow 3:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 87.996 ms

Loss rate: 17.01%

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



Run 9: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 01:10:19 +0000

End at: Tue, 01 Aug 2017 01:10:49 +0000

Local clock offset: 0.746 ms

Remote clock offset: -1.013 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.61 Mbit/s

95th percentile per-packet one-way delay: 82.082 ms

Loss rate: 13.38%

-- Flow 1:

Average throughput: 56.01 Mbit/s

95th percentile per-packet one-way delay: 79.455 ms

Loss rate: 10.81%

-- Flow 2:

Average throughput: 43.63 Mbit/s

95th percentile per-packet one-way delay: 84.365 ms

Loss rate: 17.88%

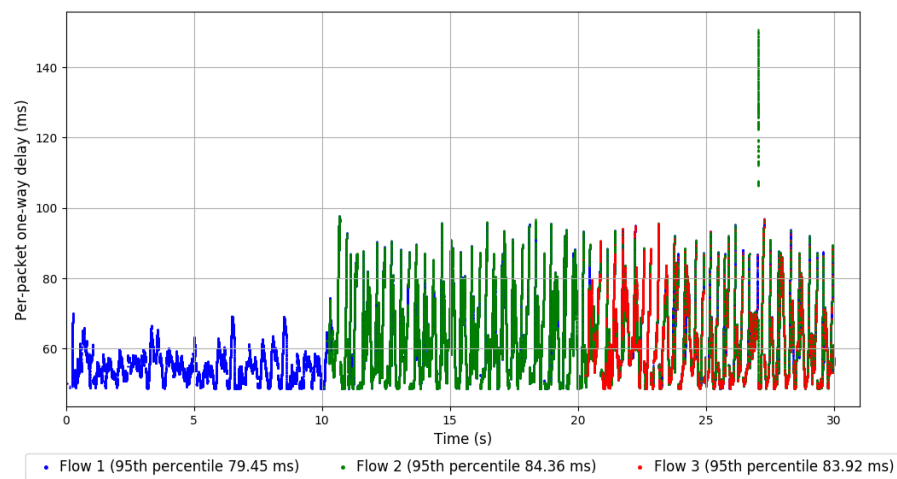
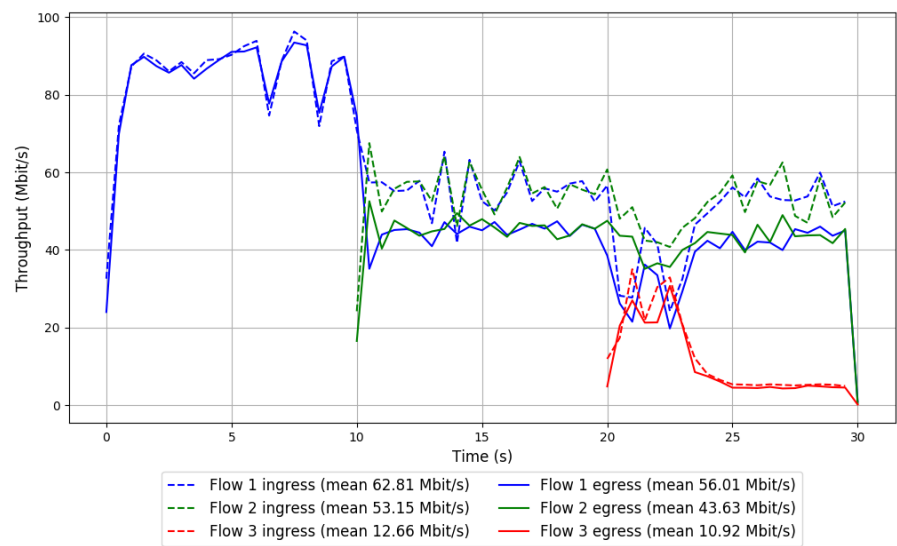
-- Flow 3:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 83.919 ms

Loss rate: 14.01%

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



Run 10: Statistics of TaoVA-100x

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

End at: Tue, 01 Aug 2017 01:33:02 +0000

Local clock offset: 0.805 ms

Remote clock offset: 1.249 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:31 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.81 Mbit/s

95th percentile per-packet one-way delay: 84.919 ms

Loss rate: 14.72%

-- Flow 1:

Average throughput: 56.81 Mbit/s

95th percentile per-packet one-way delay: 82.465 ms

Loss rate: 11.97%

-- Flow 2:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 87.349 ms

Loss rate: 19.52%

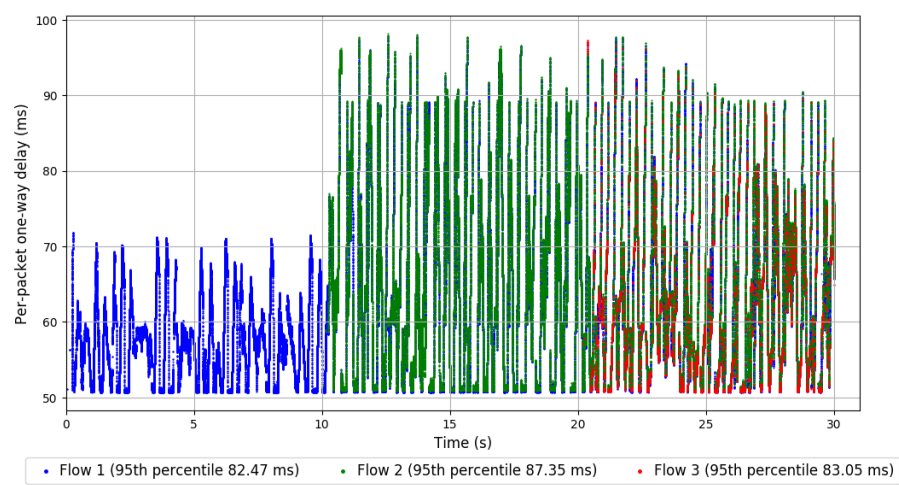
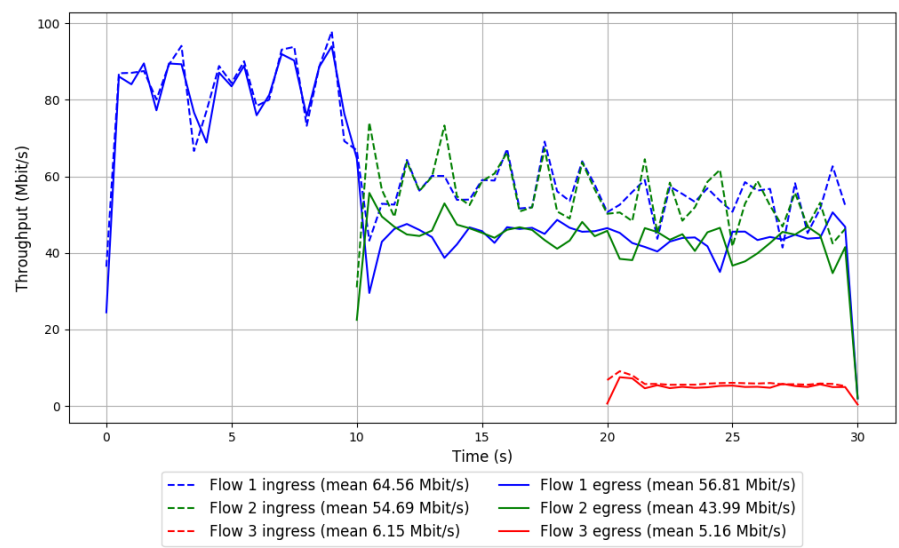
-- Flow 3:

Average throughput: 5.16 Mbit/s

95th percentile per-packet one-way delay: 83.051 ms

Loss rate: 16.10%

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



Run 1: Statistics of TCP Vegas

Start at: Mon, 31 Jul 2017 22:30:02 +0000

End at: Mon, 31 Jul 2017 22:30:33 +0000

Local clock offset: 0.551 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 61.118 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 14.64 Mbit/s

95th percentile per-packet one-way delay: 67.167 ms

Loss rate: 3.93%

-- Flow 2:

Average throughput: 16.08 Mbit/s

95th percentile per-packet one-way delay: 57.627 ms

Loss rate: 0.97%

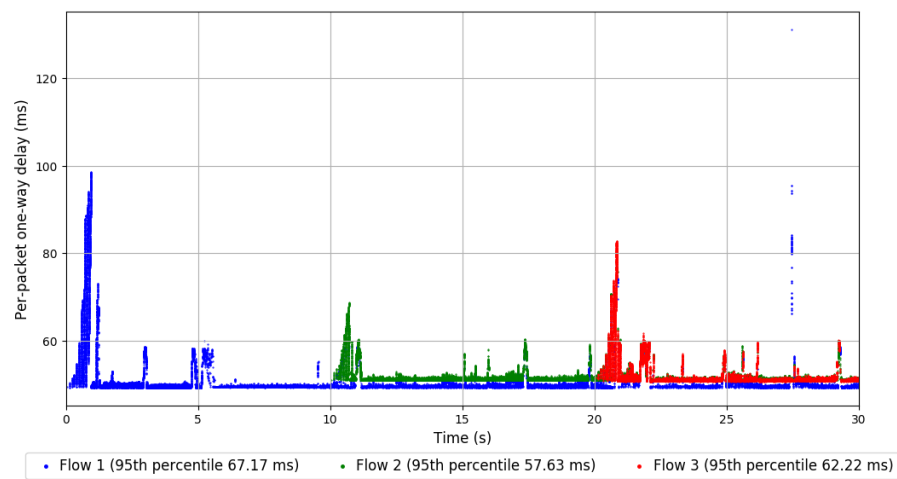
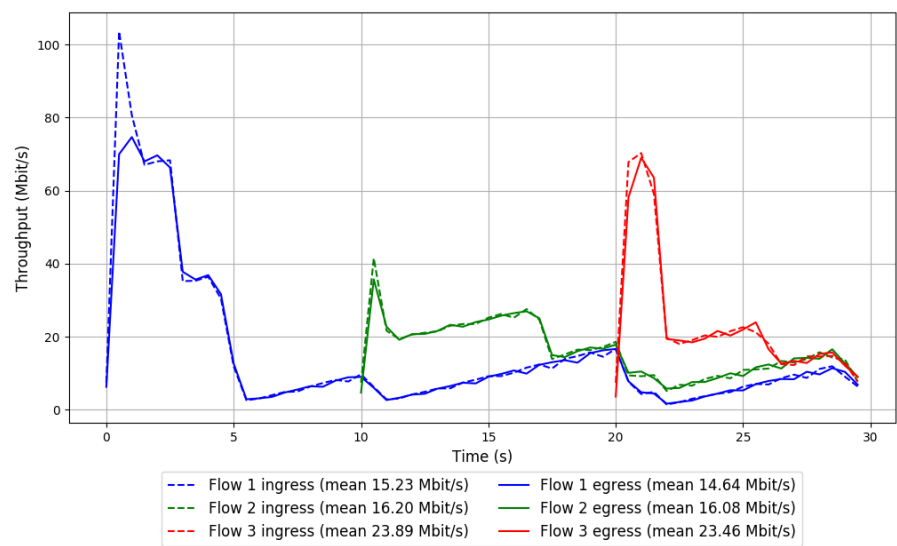
-- Flow 3:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 62.222 ms

Loss rate: 1.78%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Mon, 31 Jul 2017 22:51:00 +0000

End at: Mon, 31 Jul 2017 22:51:30 +0000

Local clock offset: 0.667 ms

Remote clock offset: -1.731 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 83.295 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 42.36 Mbit/s

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

Loss rate: 0.53%

-- Flow 2:

Average throughput: 22.74 Mbit/s

95th percentile per-packet one-way delay: 84.731 ms

Loss rate: 0.09%

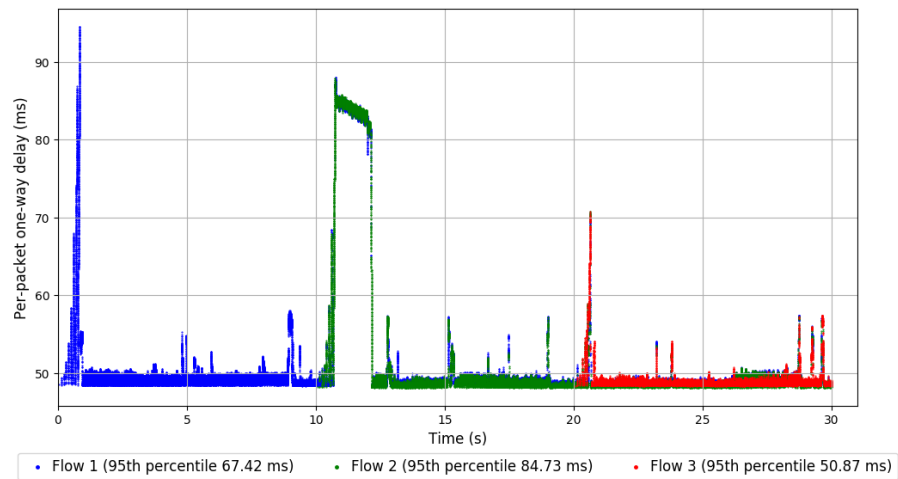
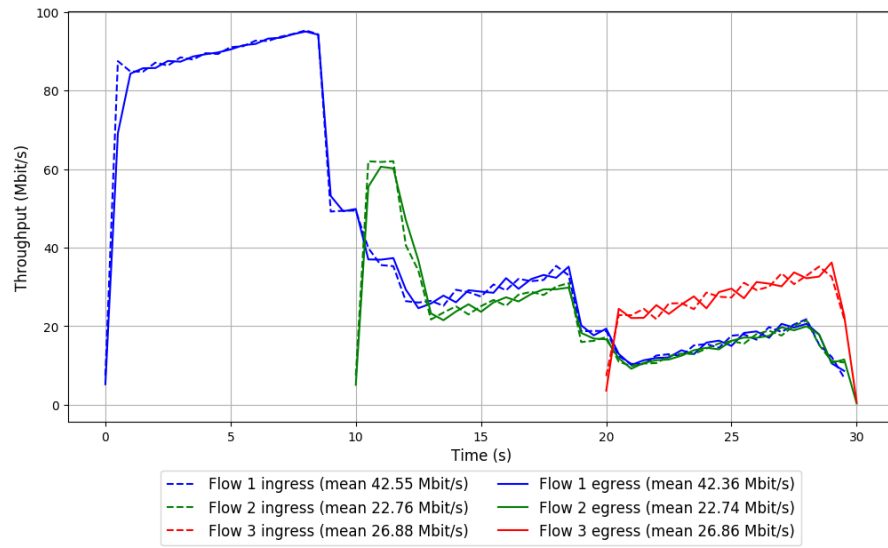
-- Flow 3:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 50.872 ms

Loss rate: 0.26%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Mon, 31 Jul 2017 23:11:52 +0000

End at: Mon, 31 Jul 2017 23:12:22 +0000

Local clock offset: 0.587 ms

Remote clock offset: 1.026 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 64.640 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 63.111 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 54.766 ms

Loss rate: 1.05%

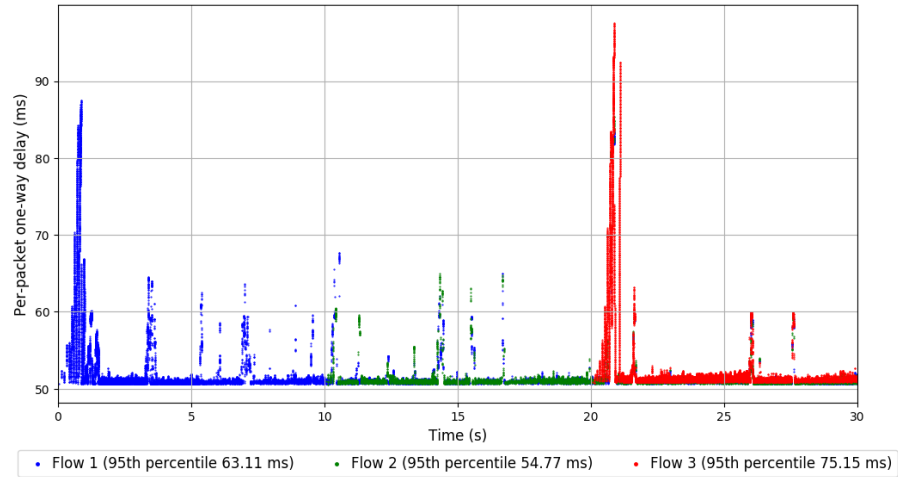
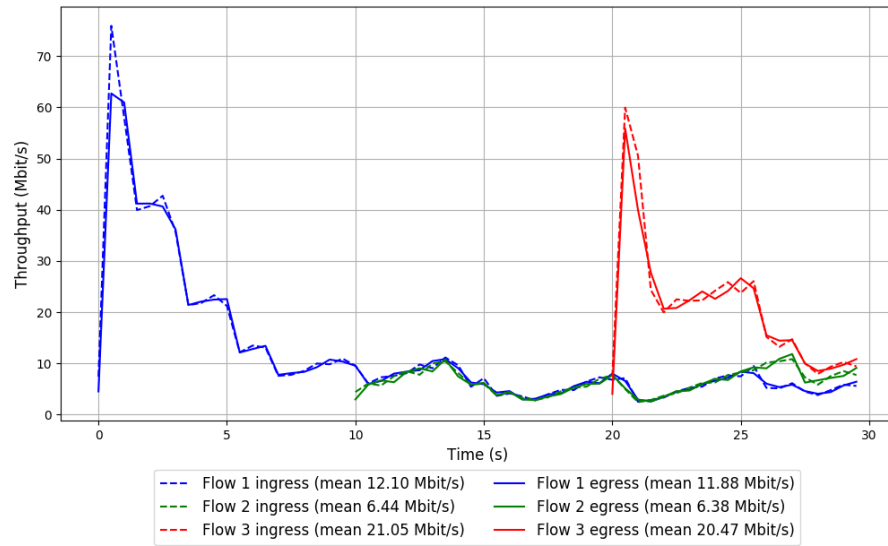
-- Flow 3:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 75.152 ms

Loss rate: 3.16%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Mon, 31 Jul 2017 23:32:42 +0000

End at: Mon, 31 Jul 2017 23:33:12 +0000

Local clock offset: 0.388 ms

Remote clock offset: 1.197 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.82 Mbit/s

95th percentile per-packet one-way delay: 59.535 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 16.29 Mbit/s

95th percentile per-packet one-way delay: 57.785 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 60.764 ms

Loss rate: 0.90%

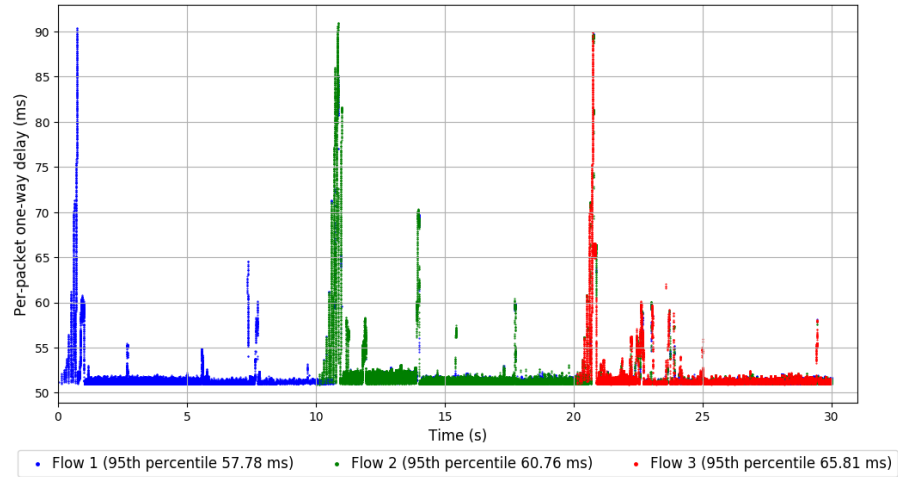
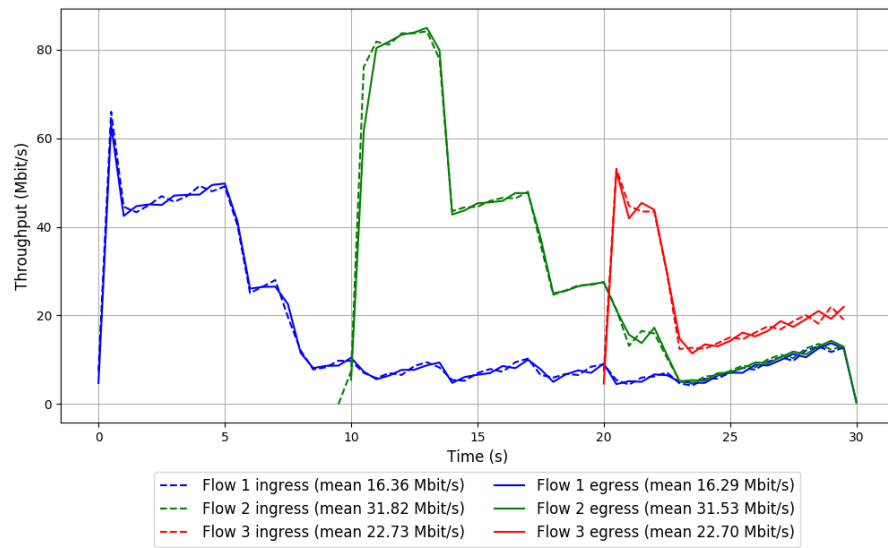
-- Flow 3:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 65.806 ms

Loss rate: 0.13%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Mon, 31 Jul 2017 23:53:34 +0000

End at: Mon, 31 Jul 2017 23:54:04 +0000

Local clock offset: 0.521 ms

Remote clock offset: -1.071 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.28 Mbit/s

95th percentile per-packet one-way delay: 60.412 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 57.579 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 16.47 Mbit/s

95th percentile per-packet one-way delay: 60.058 ms

Loss rate: 0.62%

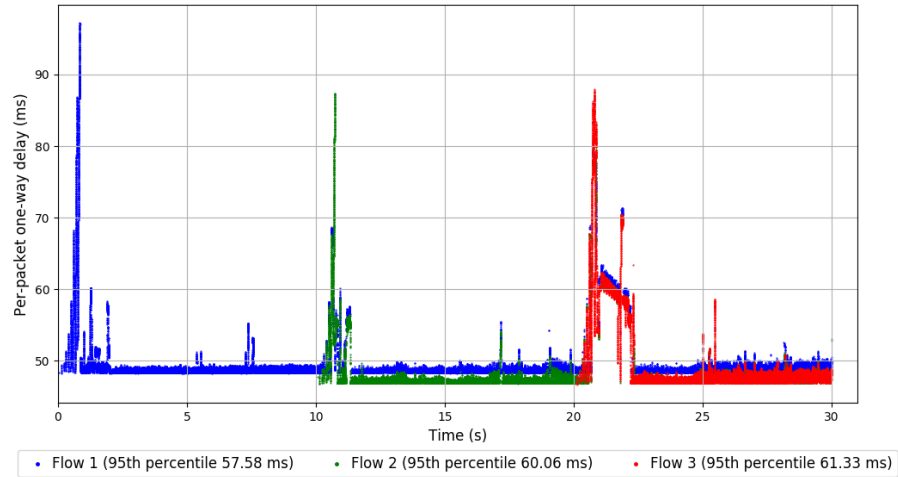
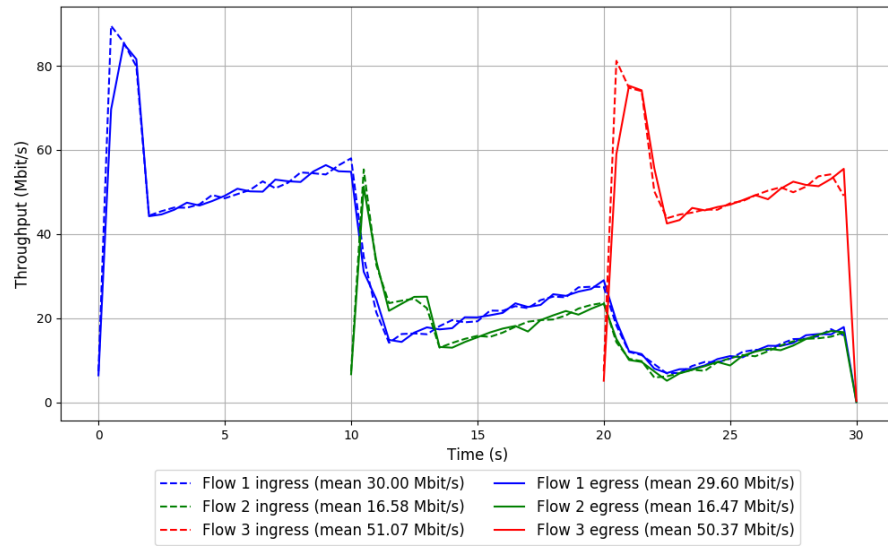
-- Flow 3:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: 61.334 ms

Loss rate: 1.51%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 00:15:02 +0000

End at: Tue, 01 Aug 2017 00:15:32 +0000

Local clock offset: 0.603 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.15 Mbit/s

95th percentile per-packet one-way delay: 59.241 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 61.769 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 56.676 ms

Loss rate: 0.68%

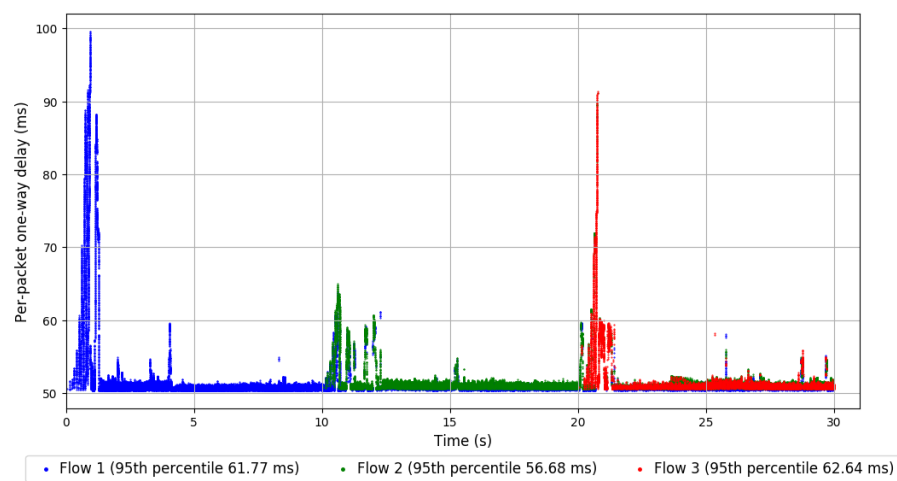
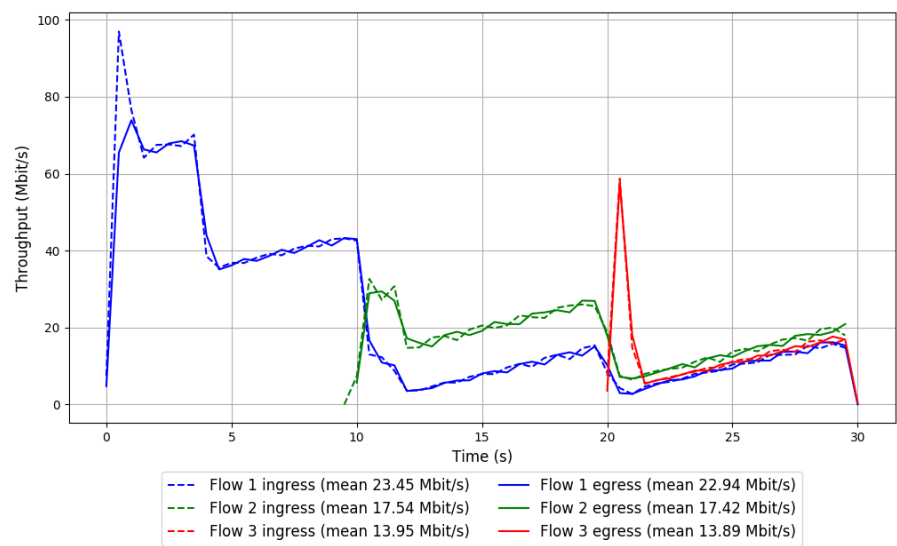
-- Flow 3:

Average throughput: 13.89 Mbit/s

95th percentile per-packet one-way delay: 62.642 ms

Loss rate: 0.42%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 00:36:12 +0000

End at: Tue, 01 Aug 2017 00:36:42 +0000

Local clock offset: 0.706 ms

Remote clock offset: -1.156 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.07 Mbit/s

95th percentile per-packet one-way delay: 56.632 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 32.65 Mbit/s

95th percentile per-packet one-way delay: 54.645 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 56.648 ms

Loss rate: 0.18%

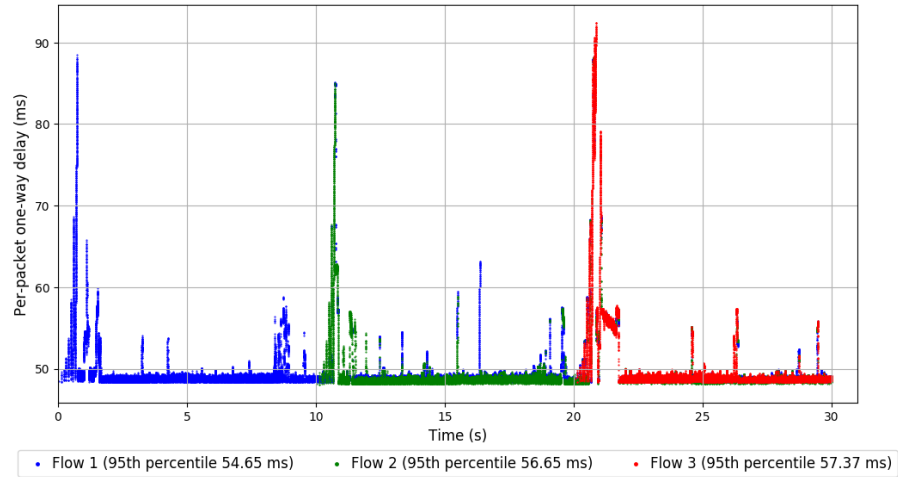
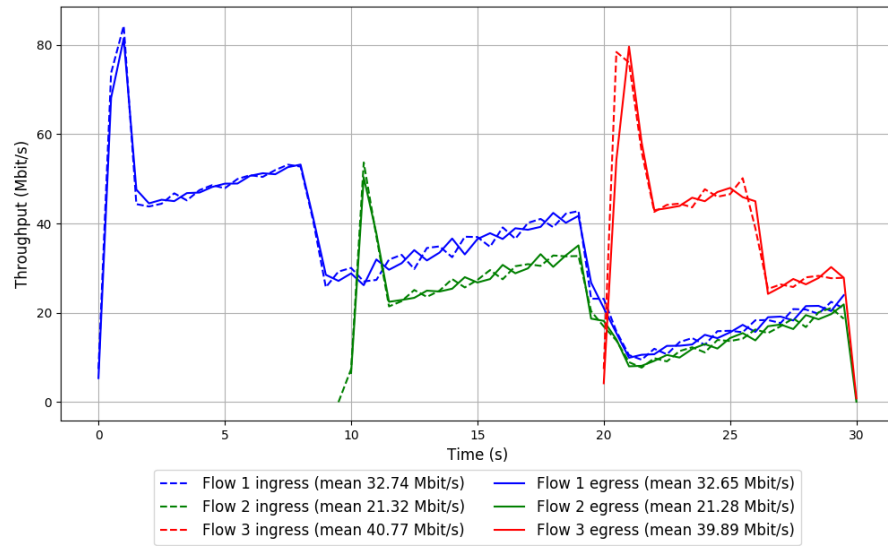
-- Flow 3:

Average throughput: 39.89 Mbit/s

95th percentile per-packet one-way delay: 57.366 ms

Loss rate: 2.16%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 00:57:13 +0000

End at: Tue, 01 Aug 2017 00:57:43 +0000

Local clock offset: 0.741 ms

Remote clock offset: 1.445 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.80 Mbit/s

95th percentile per-packet one-way delay: 59.650 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 10.04 Mbit/s

95th percentile per-packet one-way delay: 62.226 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 5.99 Mbit/s

95th percentile per-packet one-way delay: 56.999 ms

Loss rate: 0.54%

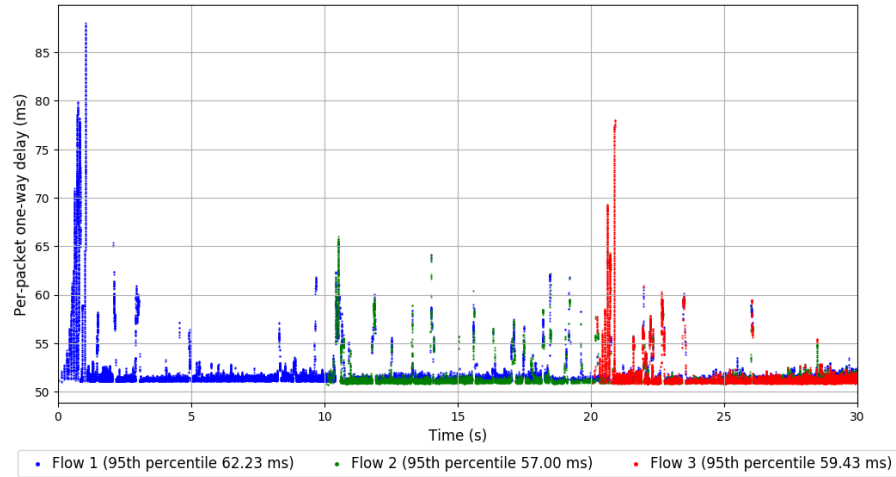
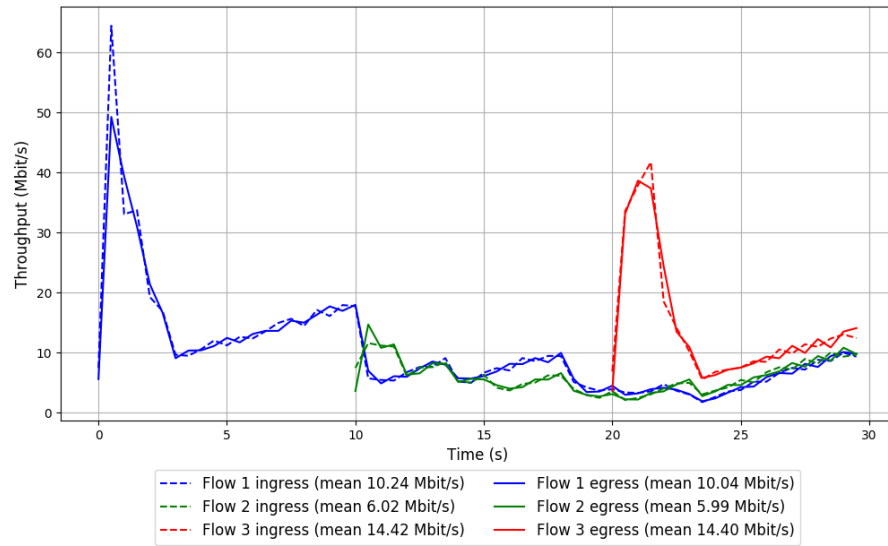
-- Flow 3:

Average throughput: 14.40 Mbit/s

95th percentile per-packet one-way delay: 59.430 ms

Loss rate: 0.28%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 01:19:13 +0000

End at: Tue, 01 Aug 2017 01:19:43 +0000

Local clock offset: 0.746 ms

Remote clock offset: -1.129 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:50:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 60.632 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 65.540 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 56.484 ms

Loss rate: 0.83%

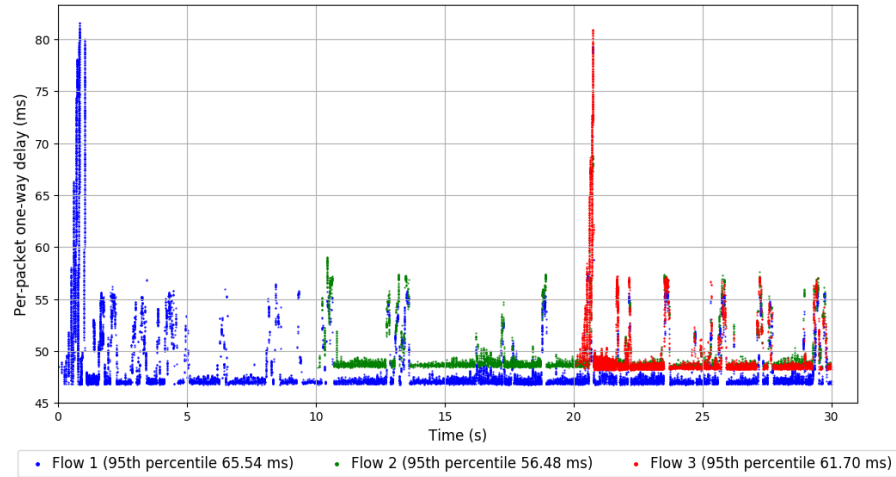
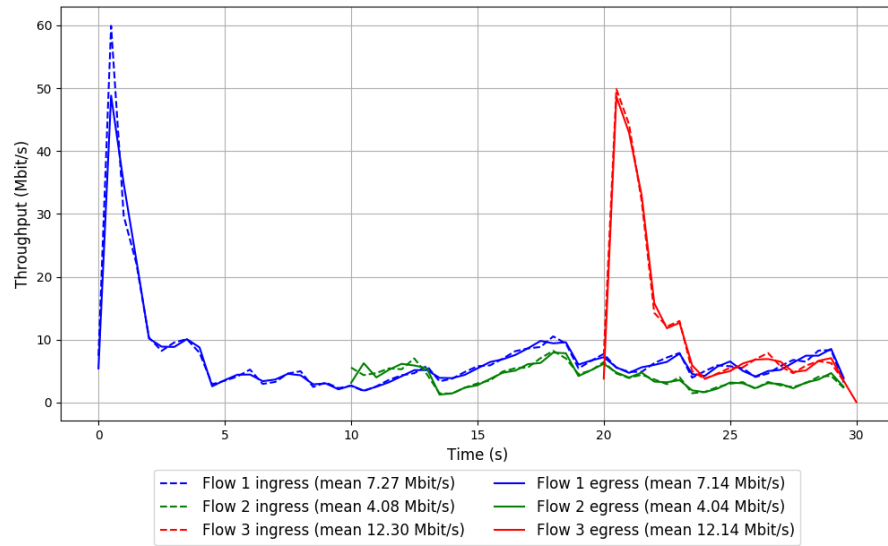
-- Flow 3:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 61.696 ms

Loss rate: 1.31%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 01:41:43 +0000

End at: Tue, 01 Aug 2017 01:42:13 +0000

Local clock offset: 0.692 ms

Remote clock offset: -1.532 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 56.234 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 56.102 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 56.352 ms

Loss rate: 1.06%

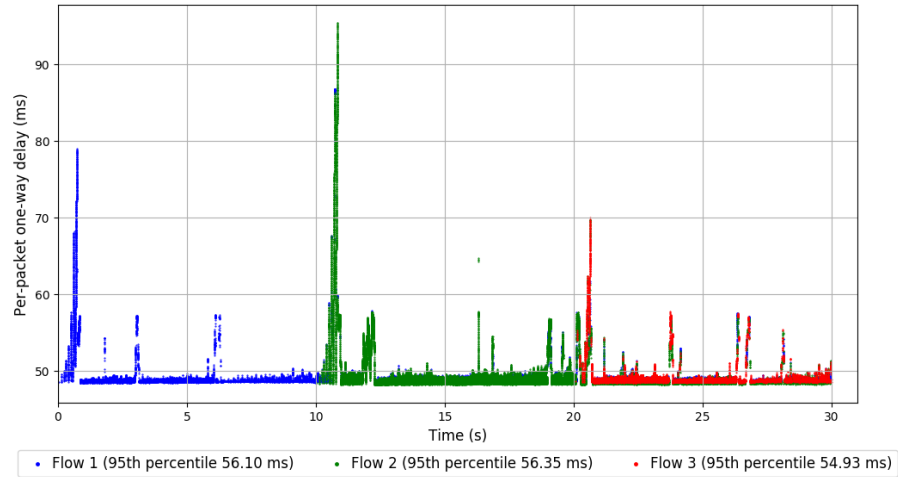
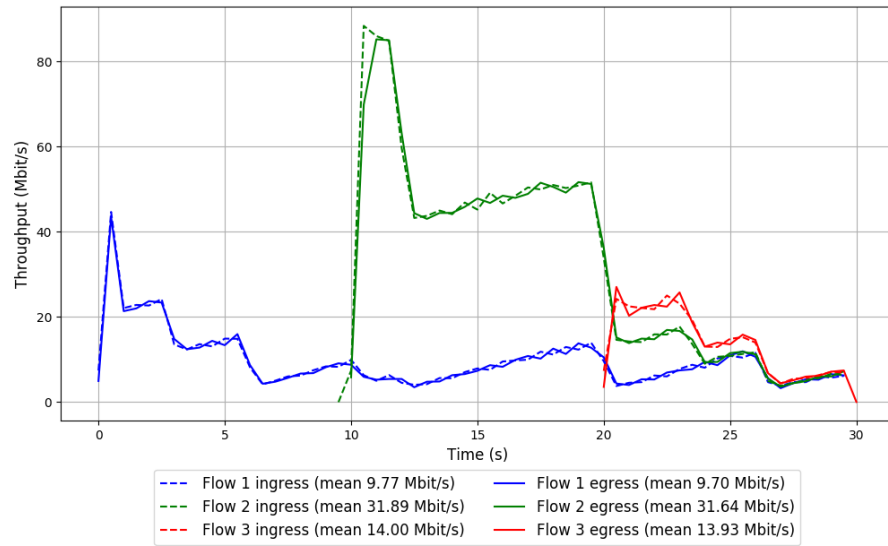
-- Flow 3:

Average throughput: 13.93 Mbit/s

95th percentile per-packet one-way delay: 54.926 ms

Loss rate: 0.46%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Mon, 31 Jul 2017 22:16:03 +0000

End at: Mon, 31 Jul 2017 22:16:33 +0000

Local clock offset: 0.59 ms

Remote clock offset: -0.585 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 90.805 ms

Loss rate: 50.27%

-- Flow 1:

Average throughput: 51.98 Mbit/s

95th percentile per-packet one-way delay: 90.829 ms

Loss rate: 50.27%

-- Flow 2:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 91.520 ms

Loss rate: 49.67%

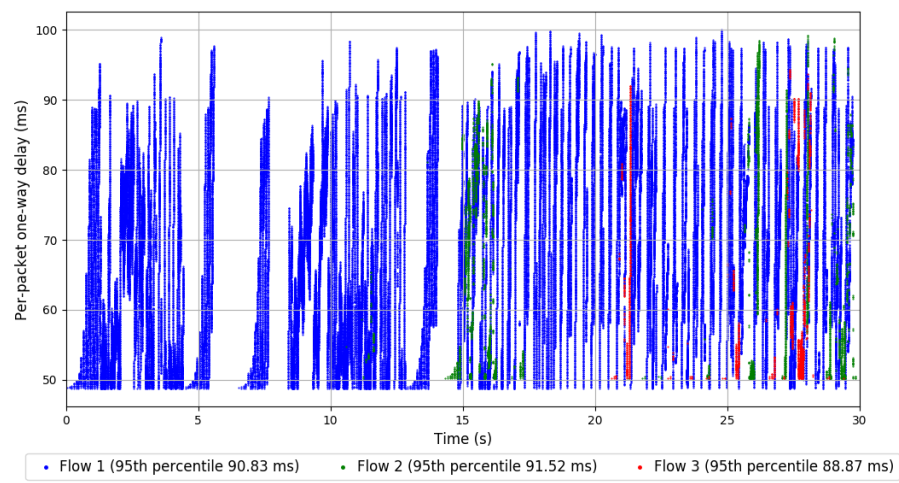
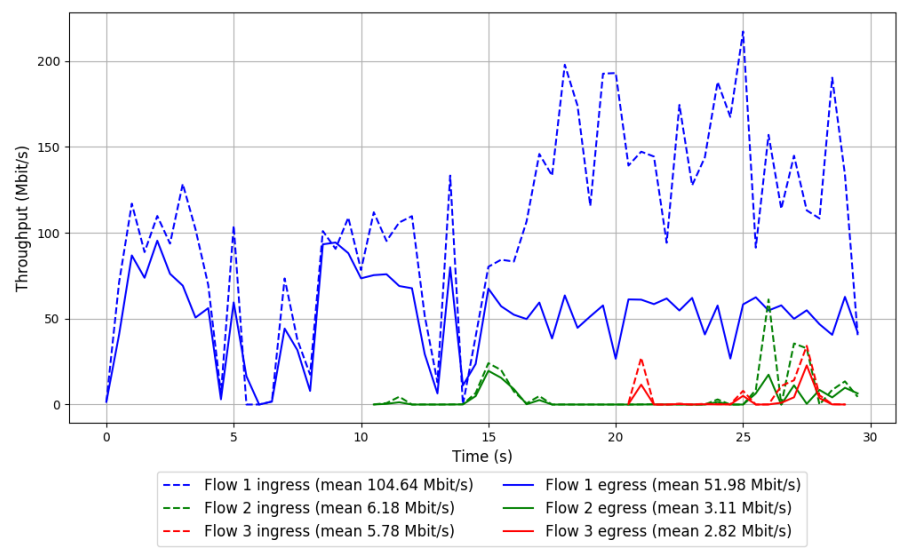
-- Flow 3:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 88.874 ms

Loss rate: 51.70%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Mon, 31 Jul 2017 22:37:01 +0000

End at: Mon, 31 Jul 2017 22:37:31 +0000

Local clock offset: 0.561 ms

Remote clock offset: -2.055 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.20 Mbit/s

95th percentile per-packet one-way delay: 87.822 ms

Loss rate: 39.77%

-- Flow 1:

Average throughput: 43.13 Mbit/s

95th percentile per-packet one-way delay: 88.496 ms

Loss rate: 43.36%

-- Flow 2:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 83.880 ms

Loss rate: 22.66%

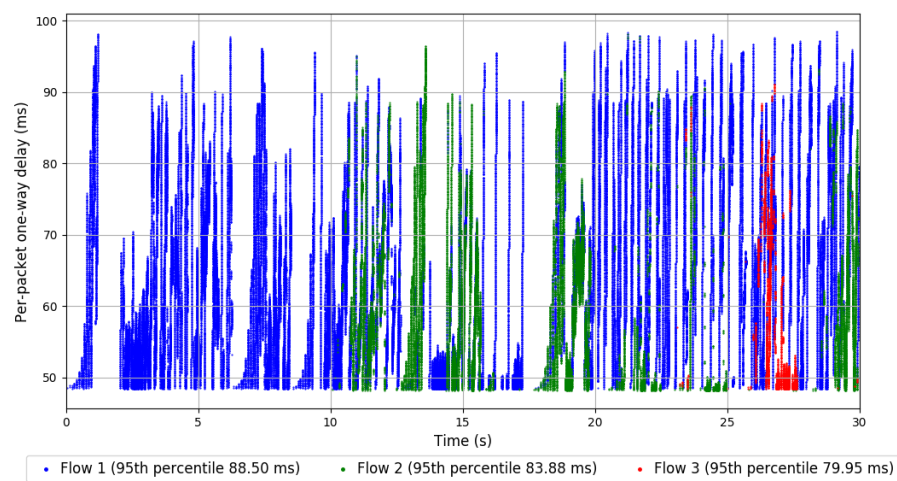
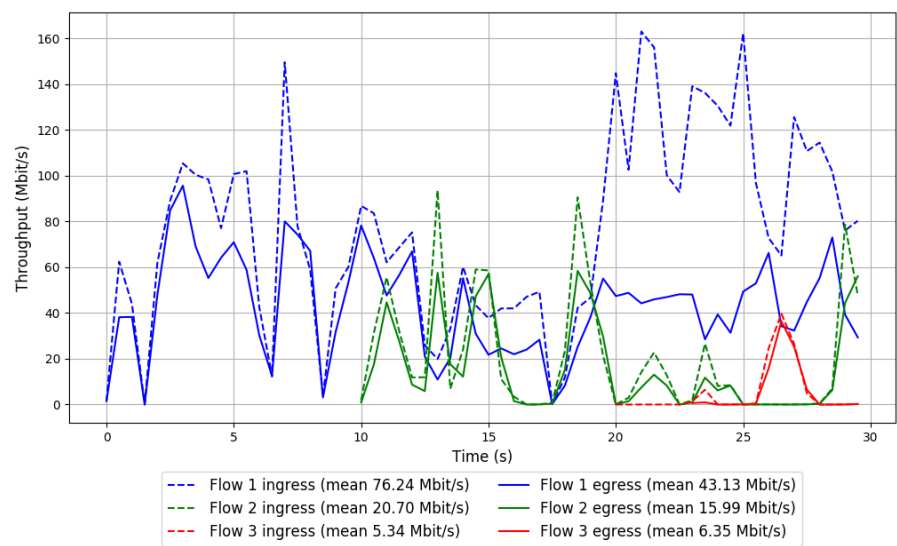
-- Flow 3:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 79.946 ms

Loss rate: 17.46%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Mon, 31 Jul 2017 22:57:59 +0000

End at: Mon, 31 Jul 2017 22:58:29 +0000

Local clock offset: 0.681 ms

Remote clock offset: -1.583 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.78 Mbit/s

95th percentile per-packet one-way delay: 87.025 ms

Loss rate: 35.64%

-- Flow 1:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 87.305 ms

Loss rate: 38.19%

-- Flow 2:

Average throughput: 27.06 Mbit/s

95th percentile per-packet one-way delay: 86.908 ms

Loss rate: 31.64%

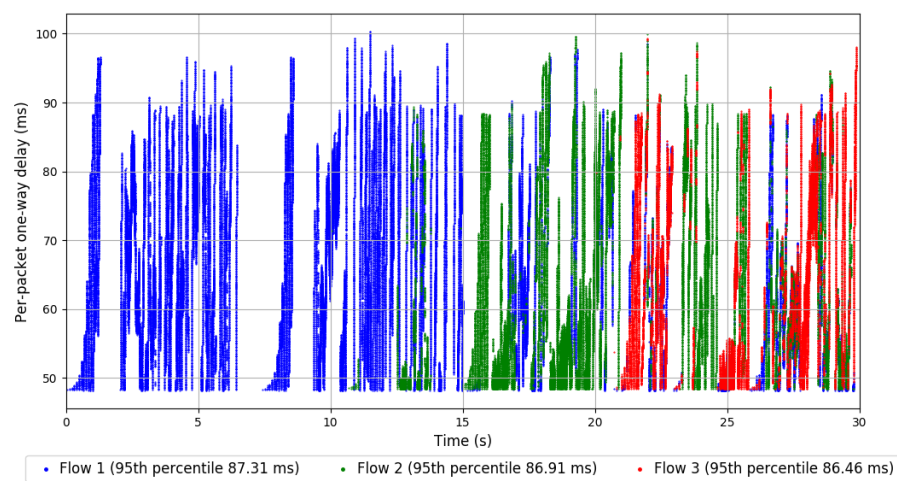
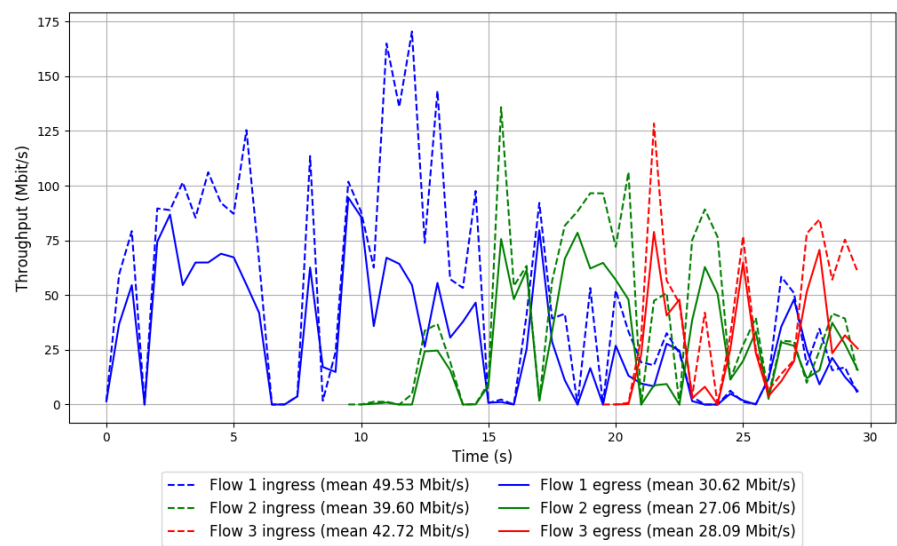
-- Flow 3:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 86.459 ms

Loss rate: 34.15%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Mon, 31 Jul 2017 23:18:47 +0000

End at: Mon, 31 Jul 2017 23:19:17 +0000

Local clock offset: 0.411 ms

Remote clock offset: 0.733 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 93.947 ms

Loss rate: 61.53%

-- Flow 1:

Average throughput: 56.53 Mbit/s

95th percentile per-packet one-way delay: 93.836 ms

Loss rate: 61.21%

-- Flow 2:

Average throughput: 8.32 Mbit/s

95th percentile per-packet one-way delay: 94.970 ms

Loss rate: 64.99%

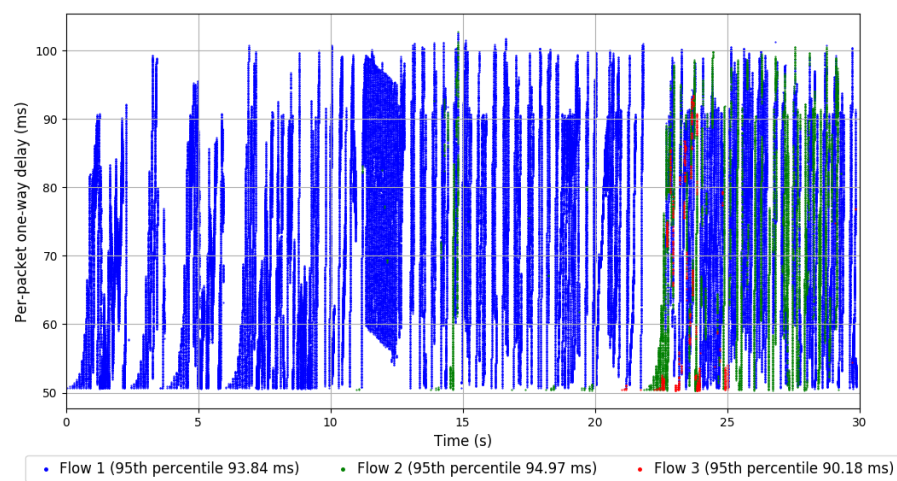
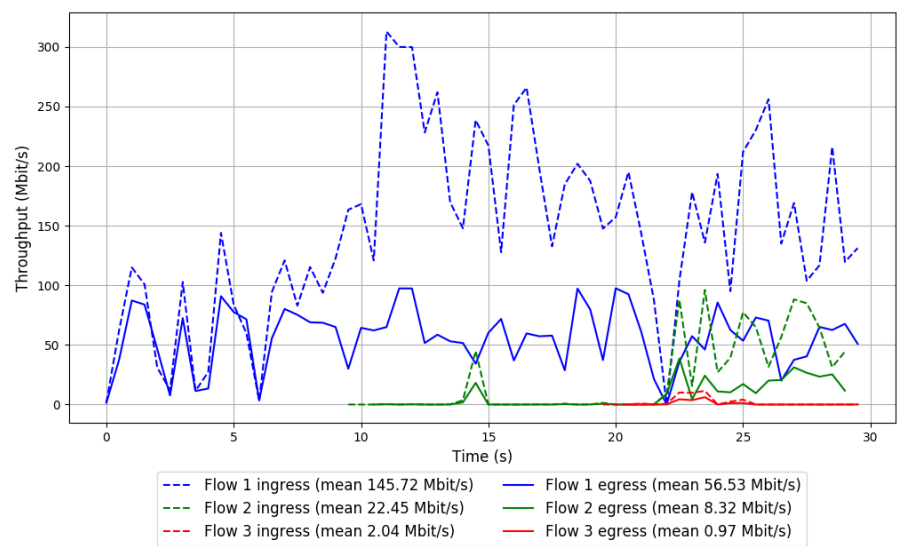
-- Flow 3:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 90.179 ms

Loss rate: 56.96%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Mon, 31 Jul 2017 23:39:38 +0000

End at: Mon, 31 Jul 2017 23:40:08 +0000

Local clock offset: 0.442 ms

Remote clock offset: 0.881 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.39 Mbit/s

95th percentile per-packet one-way delay: 89.093 ms

Loss rate: 36.14%

-- Flow 1:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 89.044 ms

Loss rate: 35.74%

-- Flow 2:

Average throughput: 8.77 Mbit/s

95th percentile per-packet one-way delay: 89.186 ms

Loss rate: 29.59%

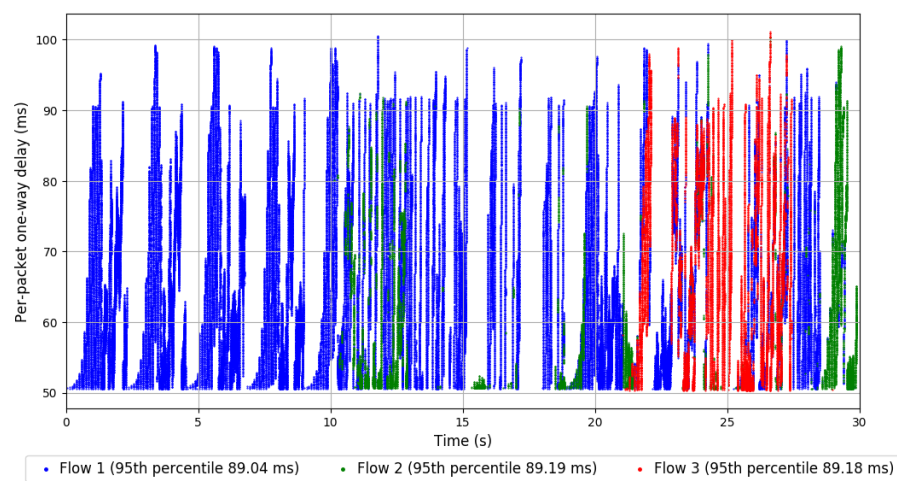
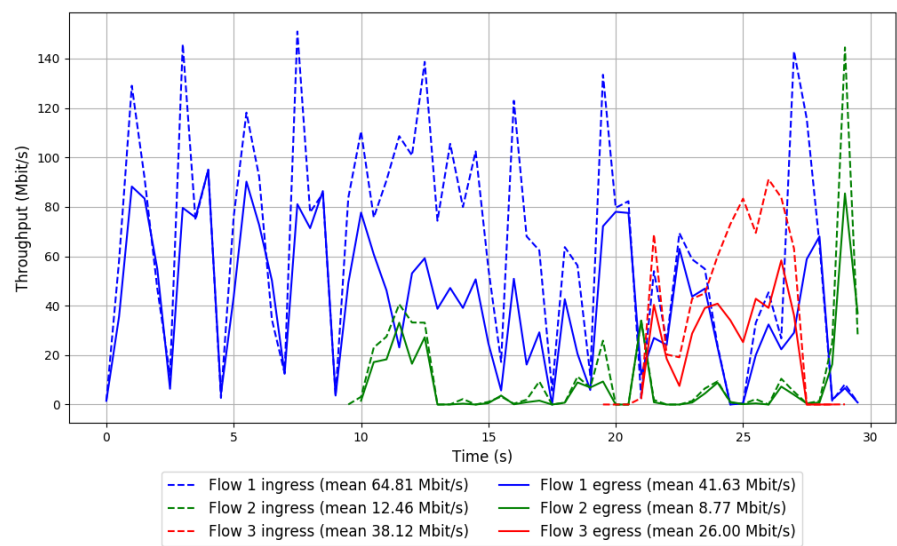
-- Flow 3:

Average throughput: 26.00 Mbit/s

95th percentile per-packet one-way delay: 89.179 ms

Loss rate: 42.79%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: Tue, 01 Aug 2017 00:00:34 +0000

End at: Tue, 01 Aug 2017 00:01:04 +0000

Local clock offset: 0.509 ms

Remote clock offset: -1.011 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 91.591 ms

Loss rate: 65.13%

-- Flow 1:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 91.553 ms

Loss rate: 65.45%

-- Flow 2:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 92.959 ms

Loss rate: 59.58%

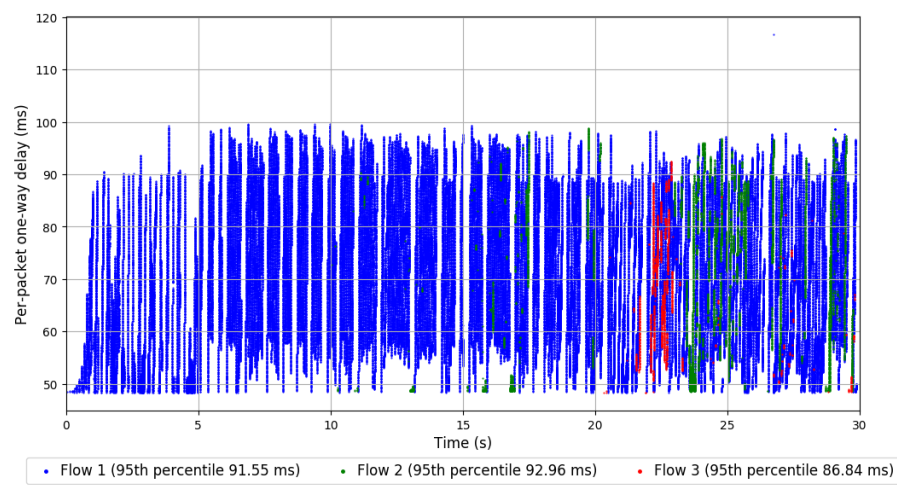
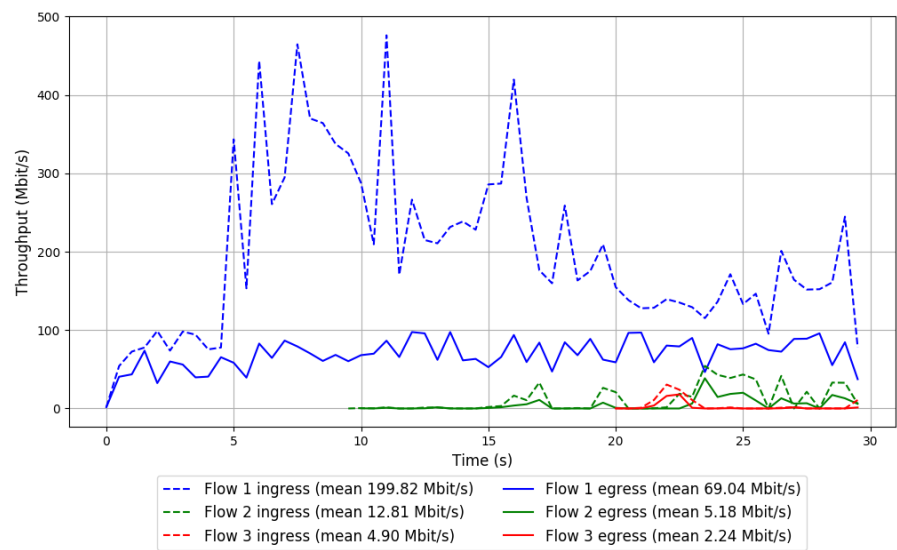
-- Flow 3:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.840 ms

Loss rate: 54.15%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Tue, 01 Aug 2017 00:22:04 +0000

End at: Tue, 01 Aug 2017 00:22:34 +0000

Local clock offset: 0.63 ms

Remote clock offset: -1.027 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.87 Mbit/s

95th percentile per-packet one-way delay: 89.734 ms

Loss rate: 46.14%

-- Flow 1:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 90.436 ms

Loss rate: 50.51%

-- Flow 2:

Average throughput: 16.39 Mbit/s

95th percentile per-packet one-way delay: 85.875 ms

Loss rate: 26.17%

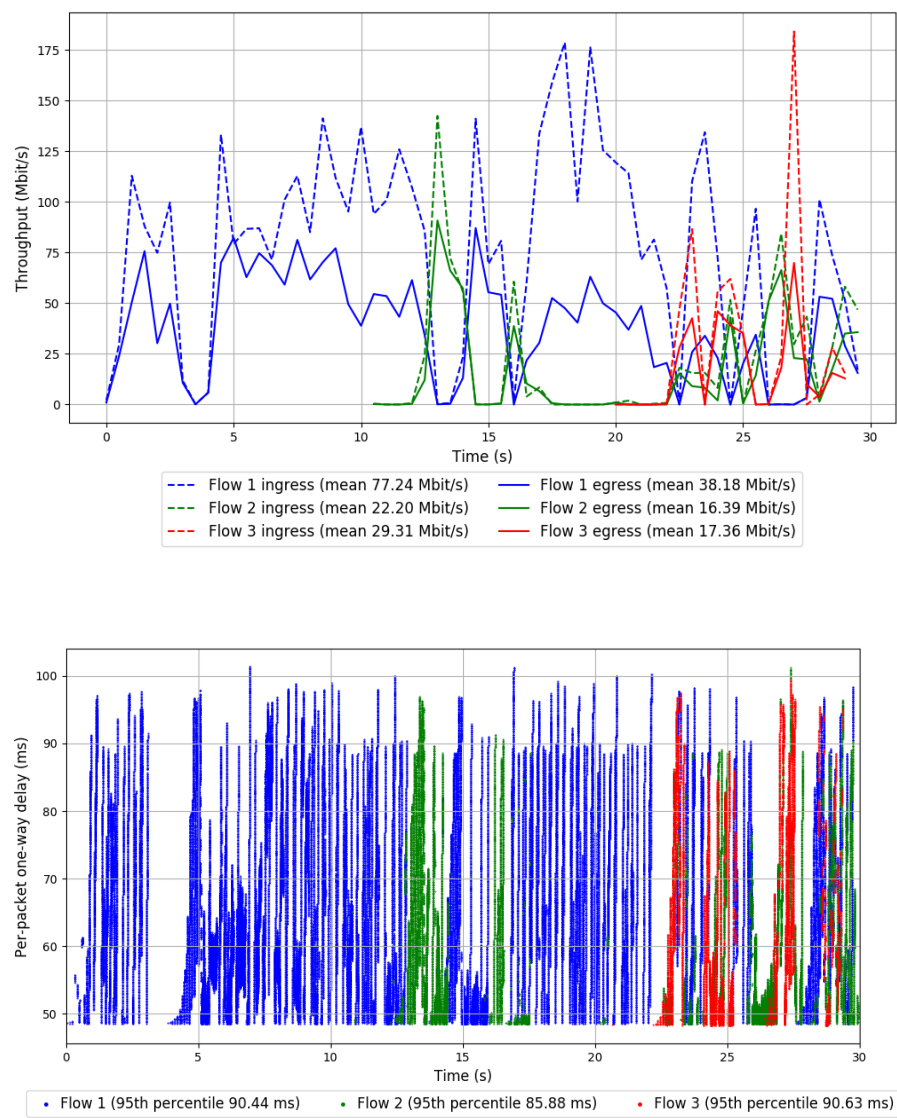
-- Flow 3:

Average throughput: 17.36 Mbit/s

95th percentile per-packet one-way delay: 90.634 ms

Loss rate: 40.63%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Tue, 01 Aug 2017 00:43:16 +0000

End at: Tue, 01 Aug 2017 00:43:46 +0000

Local clock offset: 0.819 ms

Remote clock offset: 1.604 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.67 Mbit/s

95th percentile per-packet one-way delay: 90.354 ms

Loss rate: 43.40%

-- Flow 1:

Average throughput: 35.46 Mbit/s

95th percentile per-packet one-way delay: 90.325 ms

Loss rate: 41.81%

-- Flow 2:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 89.104 ms

Loss rate: 36.02%

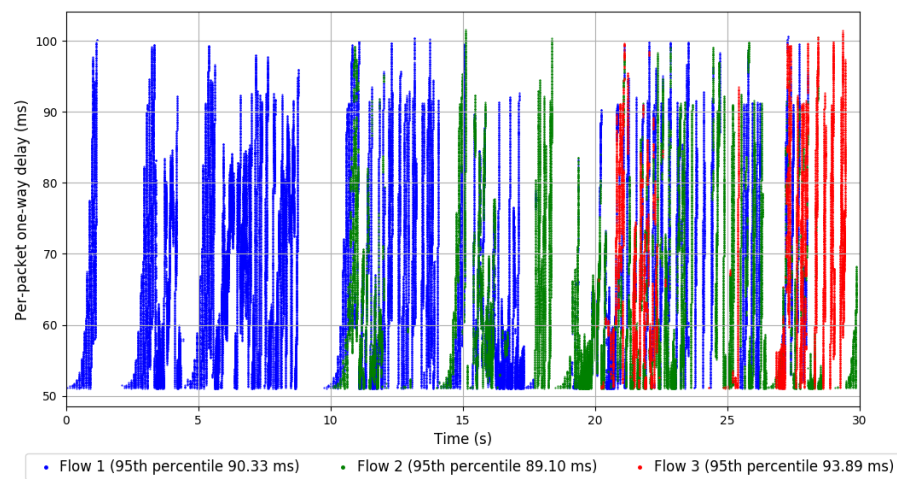
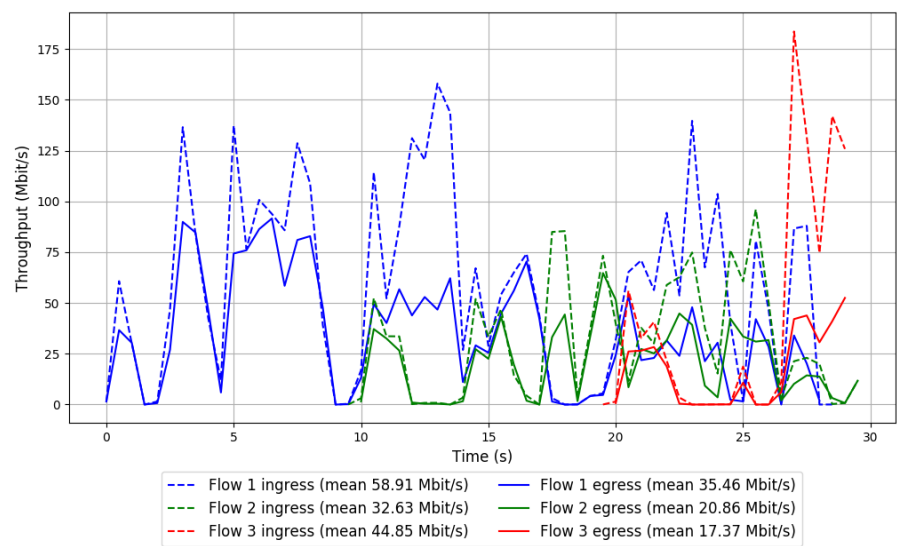
-- Flow 3:

Average throughput: 17.37 Mbit/s

95th percentile per-packet one-way delay: 93.893 ms

Loss rate: 61.13%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

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

Local clock offset: 0.861 ms

Remote clock offset: 1.359 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:51:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.19 Mbit/s

95th percentile per-packet one-way delay: 92.175 ms

Loss rate: 39.52%

-- Flow 1:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 92.153 ms

Loss rate: 40.43%

-- Flow 2:

Average throughput: 25.73 Mbit/s

95th percentile per-packet one-way delay: 91.936 ms

Loss rate: 35.53%

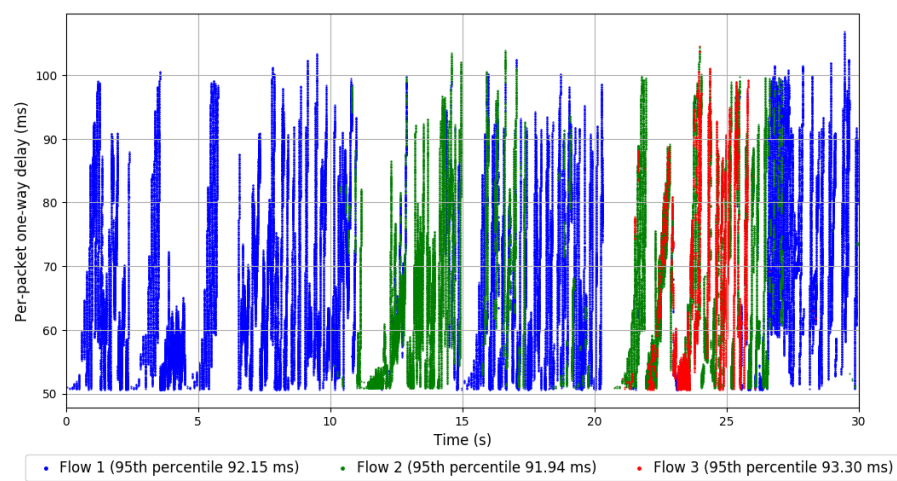
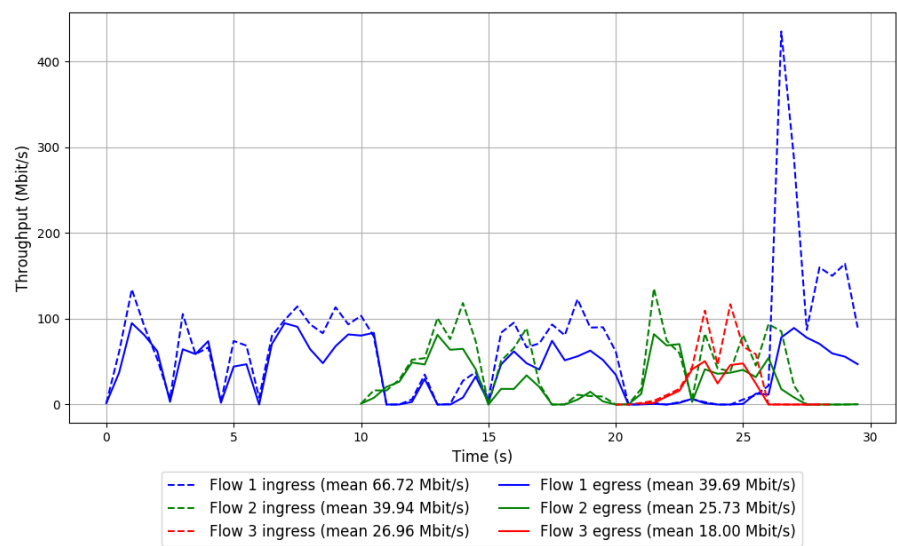
-- Flow 3:

Average throughput: 18.00 Mbit/s

95th percentile per-packet one-way delay: 93.297 ms

Loss rate: 45.12%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Tue, 01 Aug 2017 01:26:31 +0000

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

Local clock offset: 0.717 ms

Remote clock offset: -1.214 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.15 Mbit/s

95th percentile per-packet one-way delay: 92.805 ms

Loss rate: 61.84%

-- Flow 1:

Average throughput: 38.88 Mbit/s

95th percentile per-packet one-way delay: 92.683 ms

Loss rate: 57.87%

-- Flow 2:

Average throughput: 55.98 Mbit/s

95th percentile per-packet one-way delay: 92.905 ms

Loss rate: 65.25%

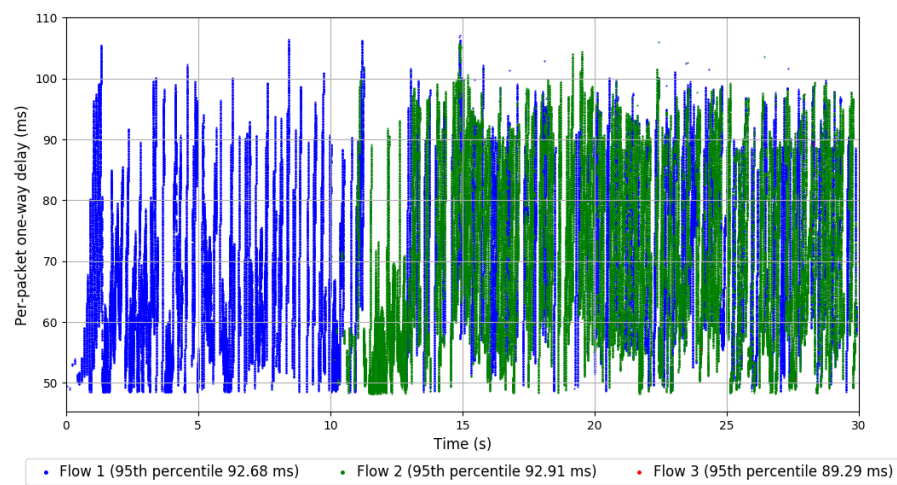
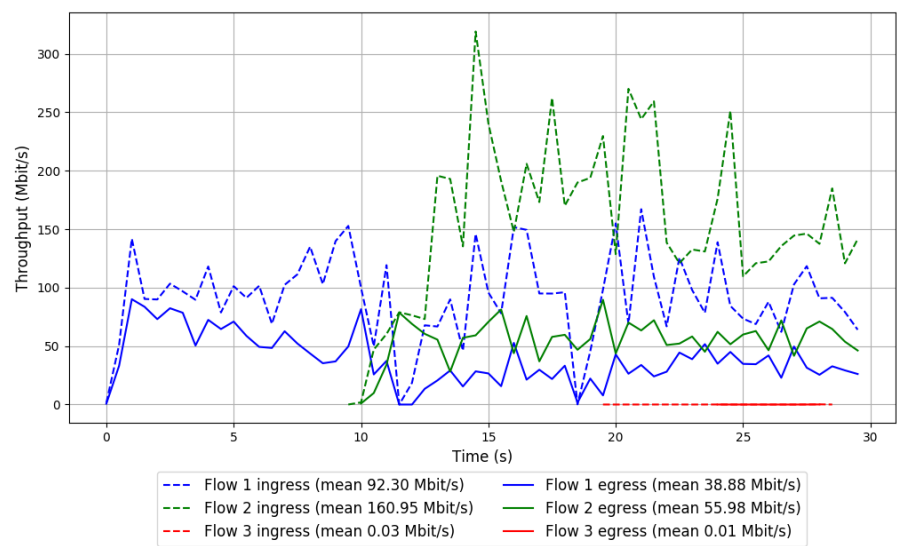
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 89.292 ms

Loss rate: 77.27%

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Mon, 31 Jul 2017 22:11:56 +0000

End at: Mon, 31 Jul 2017 22:12:26 +0000

Local clock offset: 0.511 ms

Remote clock offset: -0.539 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 51.722 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 51.650 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 51.831 ms

Loss rate: 0.24%

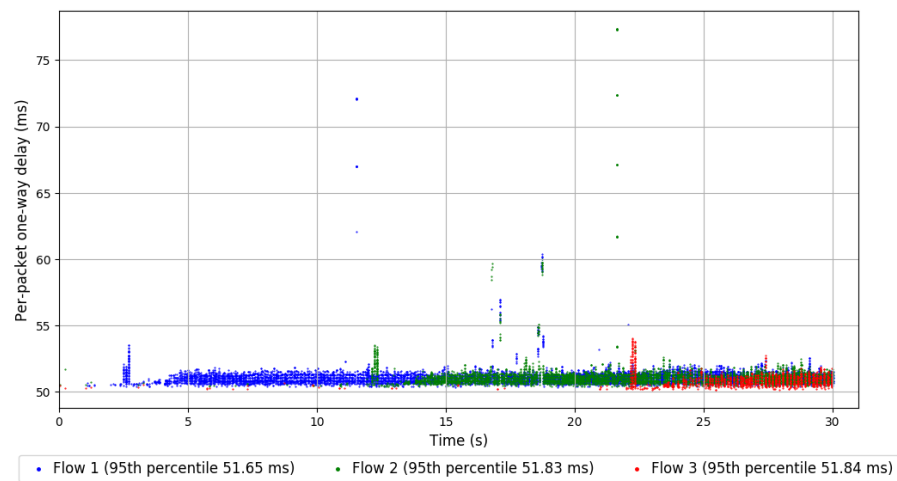
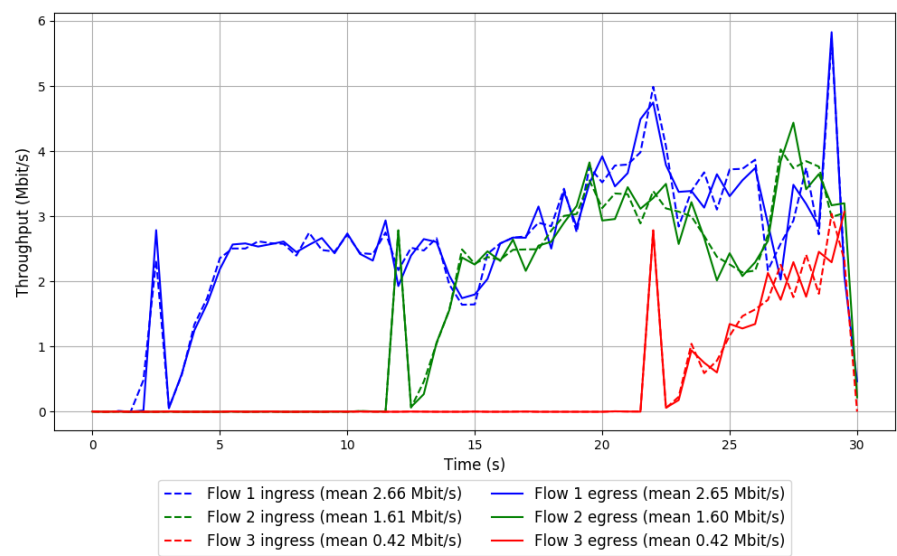
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 51.835 ms

Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Mon, 31 Jul 2017 22:32:51 +0000

End at: Mon, 31 Jul 2017 22:33:21 +0000

Local clock offset: 0.589 ms

Remote clock offset: -2.166 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 49.358 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 49.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 47.750 ms

Loss rate: 0.00%

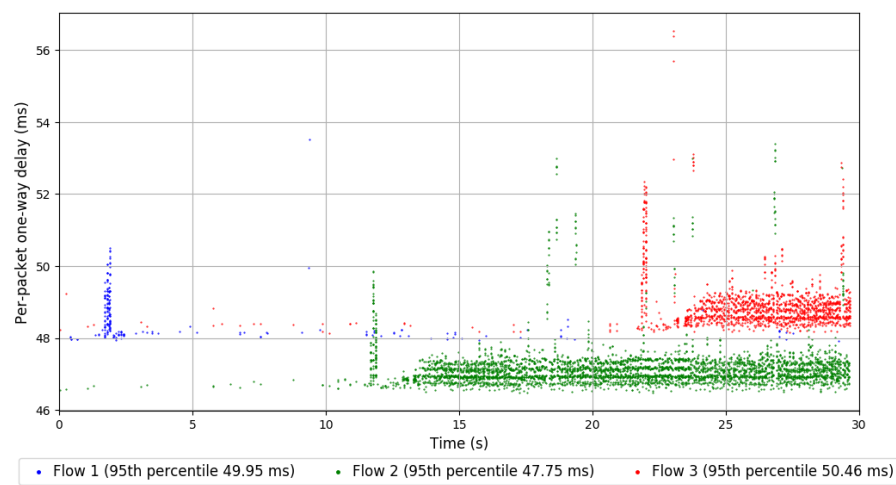
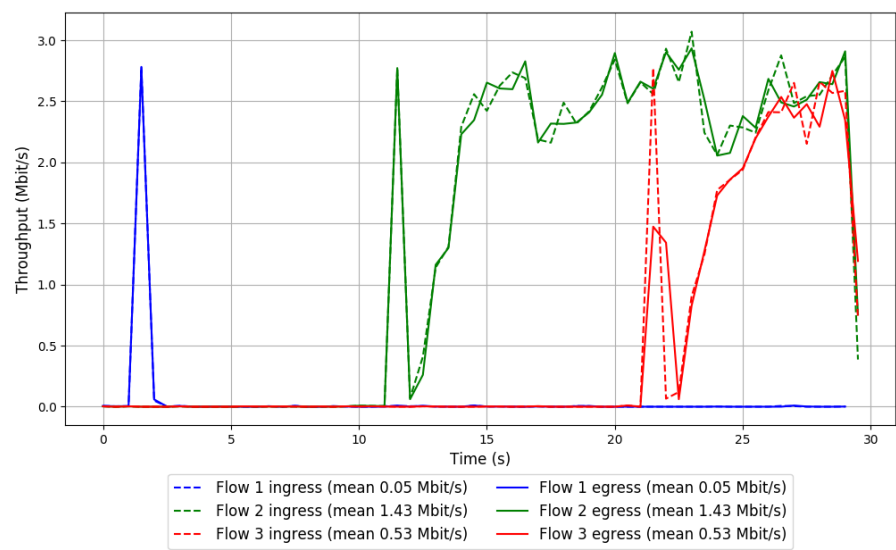
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.464 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Mon, 31 Jul 2017 22:53:50 +0000

End at: Mon, 31 Jul 2017 22:54:20 +0000

Local clock offset: 0.573 ms

Remote clock offset: 0.796 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 51.727 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 51.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 51.686 ms

Loss rate: 0.00%

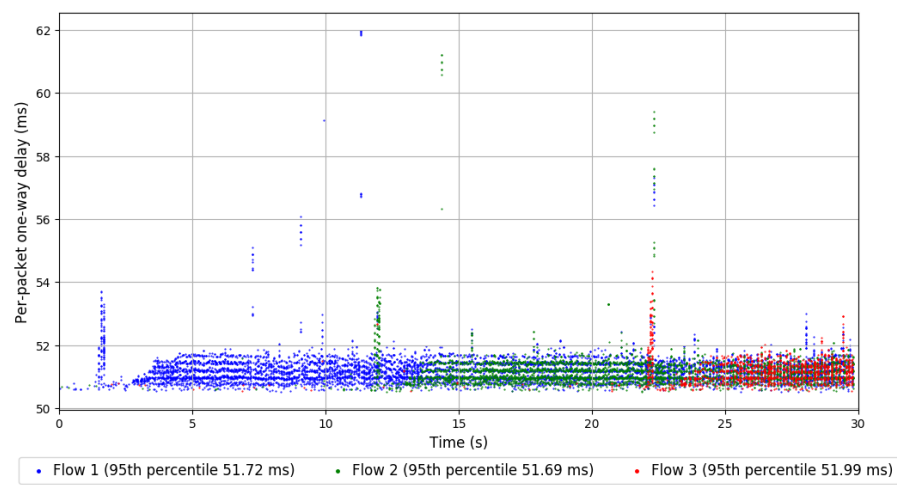
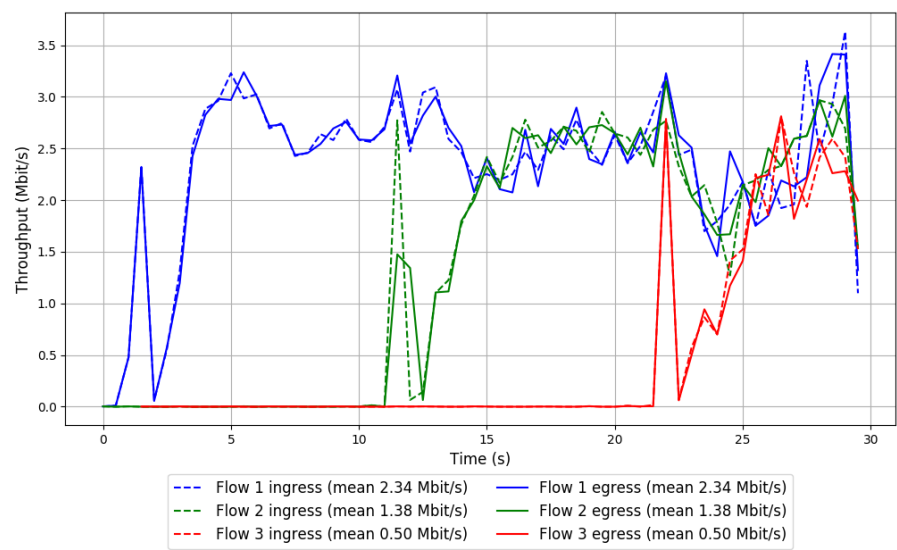
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 51.988 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Mon, 31 Jul 2017 23:14:39 +0000

End at: Mon, 31 Jul 2017 23:15:09 +0000

Local clock offset: 0.562 ms

Remote clock offset: 1.102 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 53.458 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 52.911 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 54.651 ms

Loss rate: 0.29%

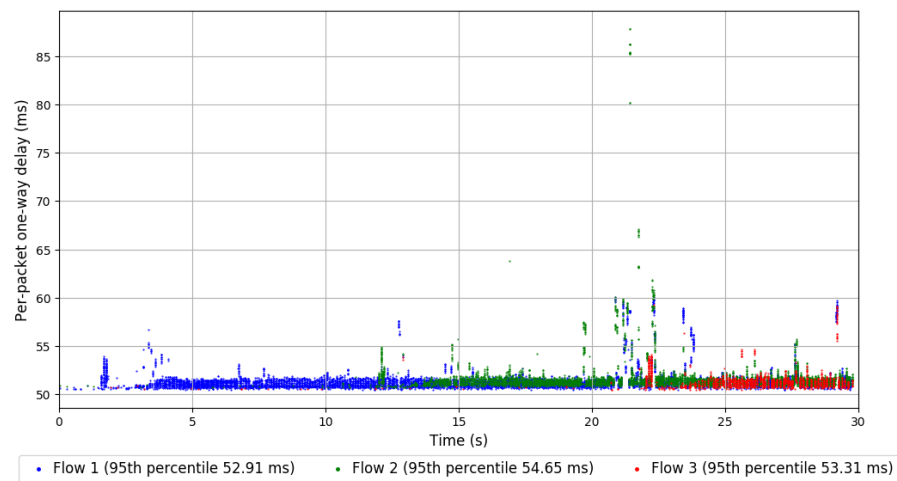
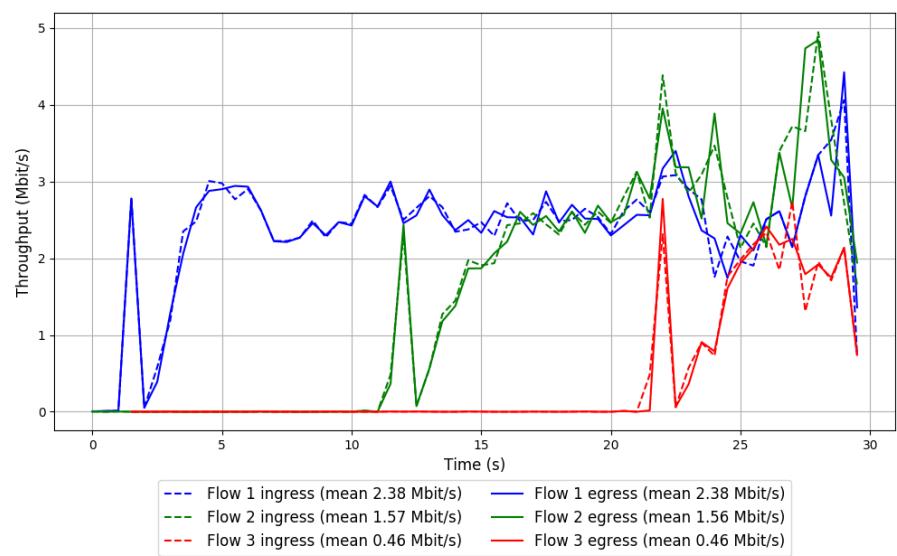
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 53.314 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Mon, 31 Jul 2017 23:35:30 +0000

End at: Mon, 31 Jul 2017 23:36:00 +0000

Local clock offset: 0.457 ms

Remote clock offset: 1.235 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 52.063 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 52.018 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 51.896 ms

Loss rate: 0.09%

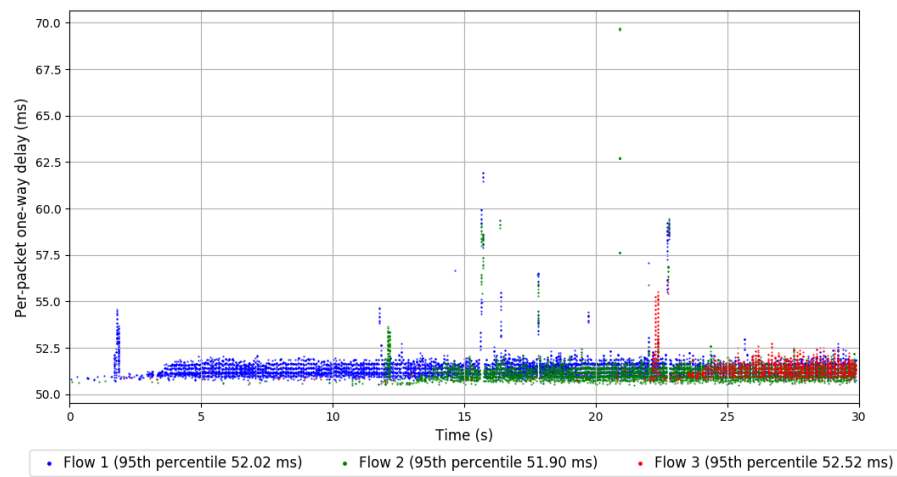
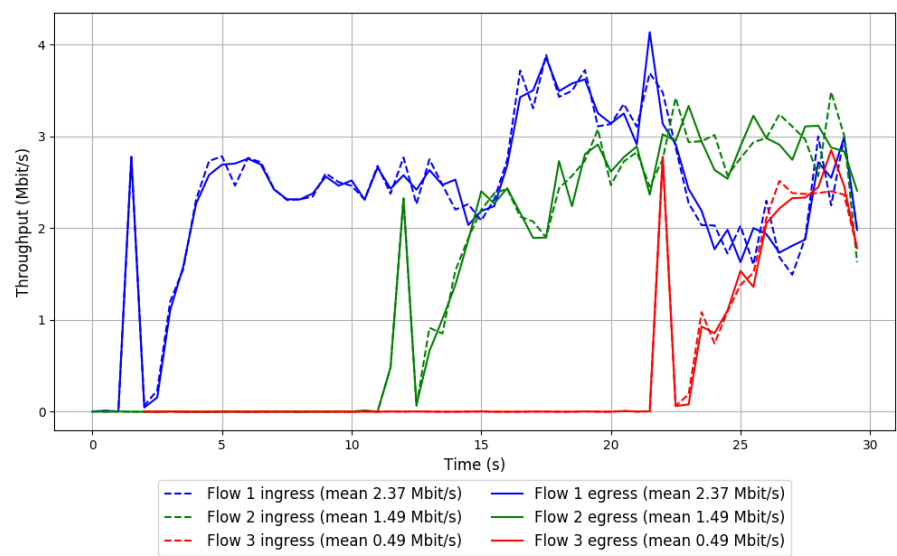
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 52.520 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: Mon, 31 Jul 2017 23:56:24 +0000

End at: Mon, 31 Jul 2017 23:56:54 +0000

Local clock offset: 0.472 ms

Remote clock offset: -1.05 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 49.456 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 49.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 49.534 ms

Loss rate: 0.00%

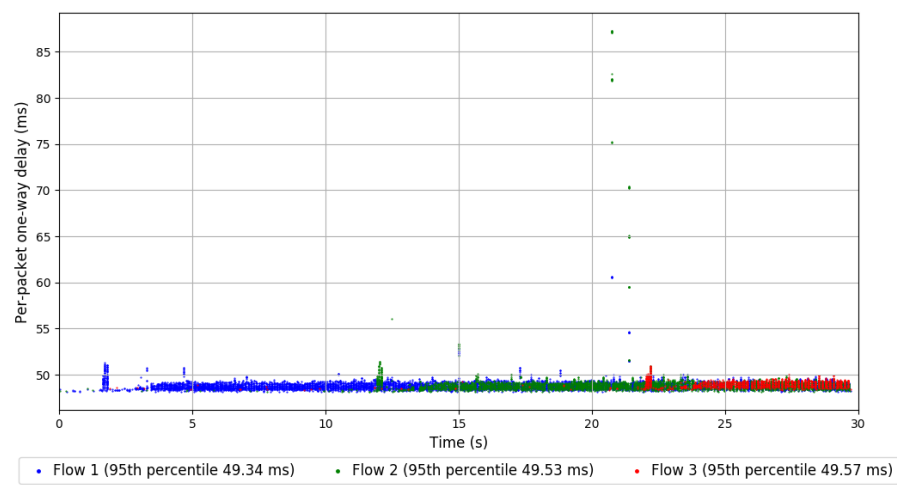
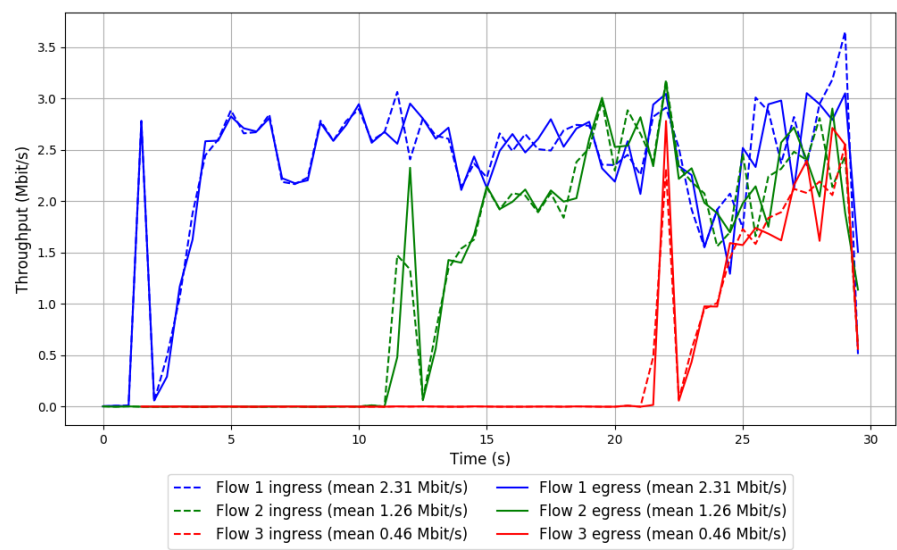
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 49.571 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 00:17:54 +0000

End at: Tue, 01 Aug 2017 00:18:24 +0000

Local clock offset: 0.676 ms

Remote clock offset: 0.963 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 53.106 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 53.213 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 52.594 ms

Loss rate: 0.02%

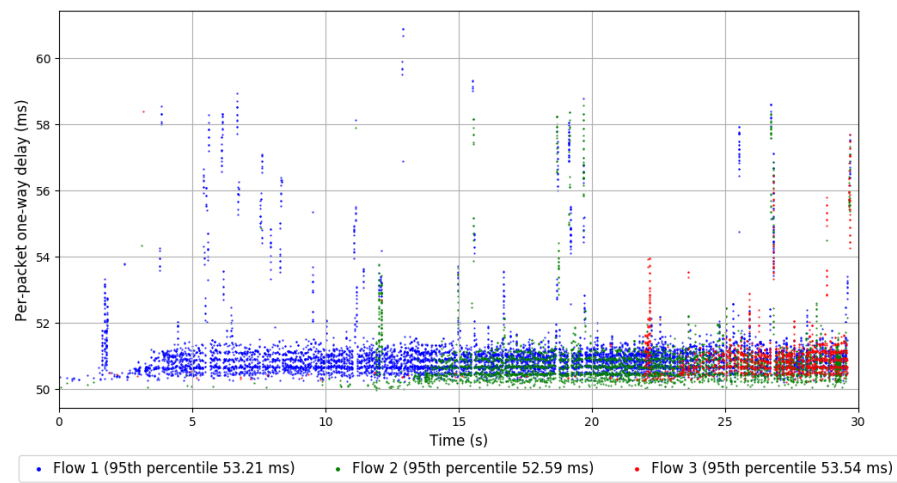
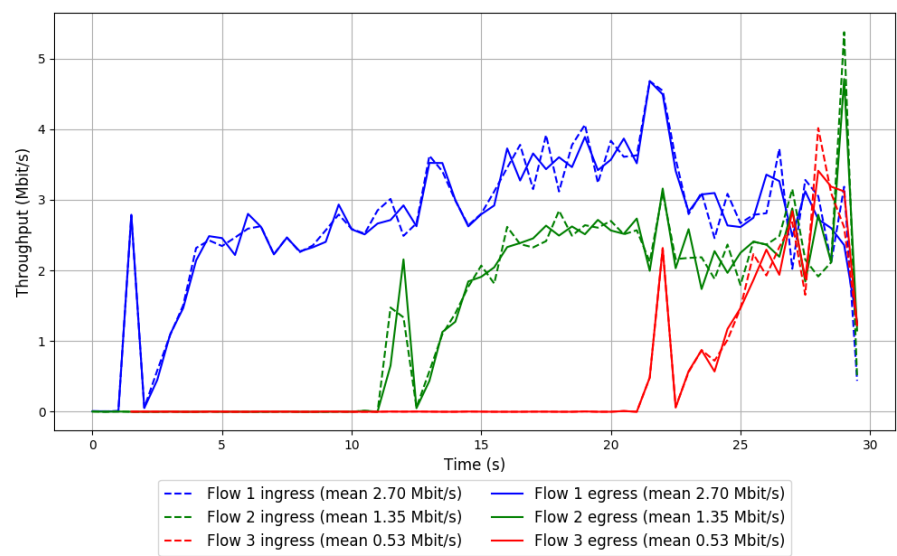
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 53.540 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 00:39:06 +0000

End at: Tue, 01 Aug 2017 00:39:36 +0000

Local clock offset: 0.719 ms

Remote clock offset: -1.044 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 49.256 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 53.694 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 47.844 ms

Loss rate: 0.00%

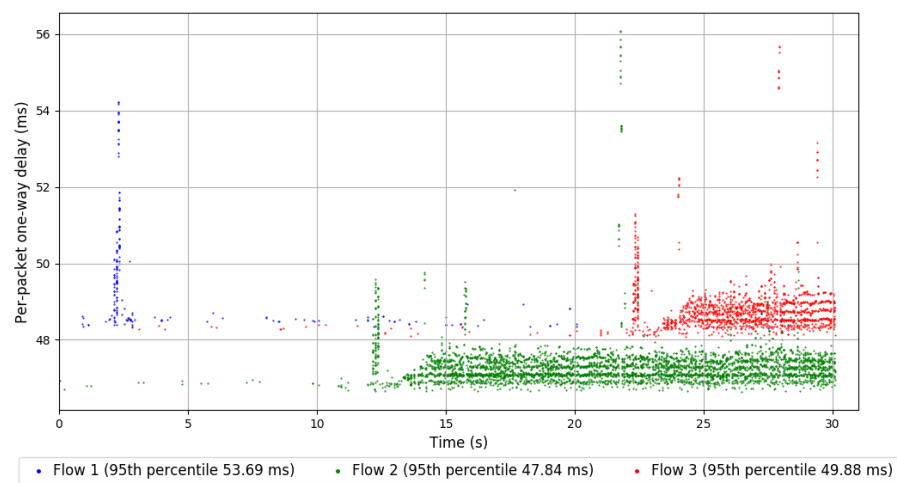
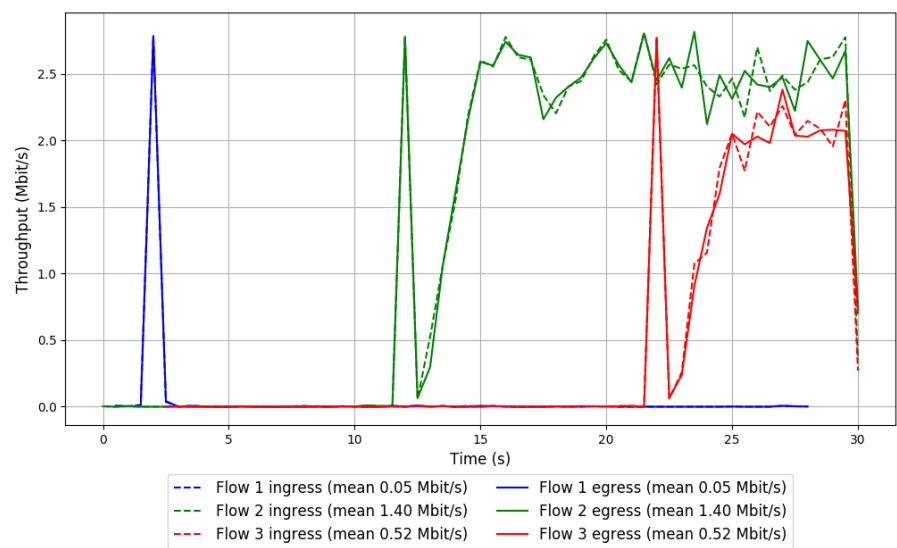
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 49.882 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 01:00:03 +0000

End at: Tue, 01 Aug 2017 01:00:33 +0000

Local clock offset: 0.814 ms

Remote clock offset: -1.193 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.66 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 51.139 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.05%

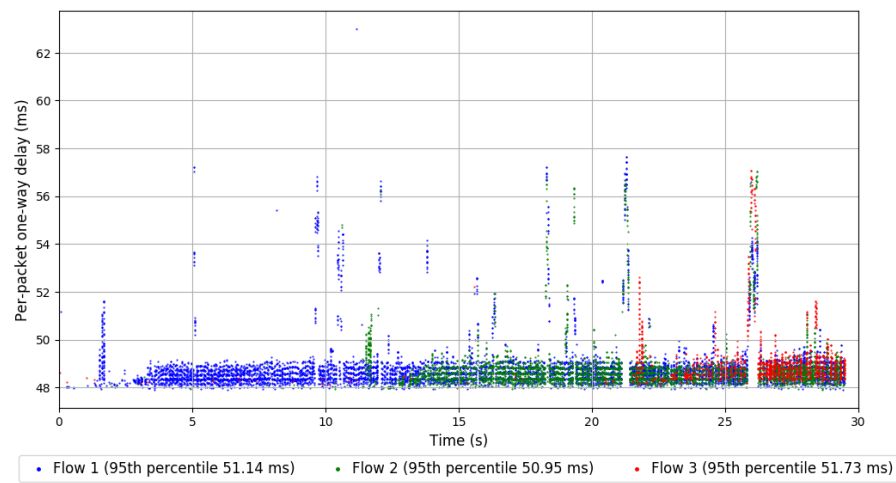
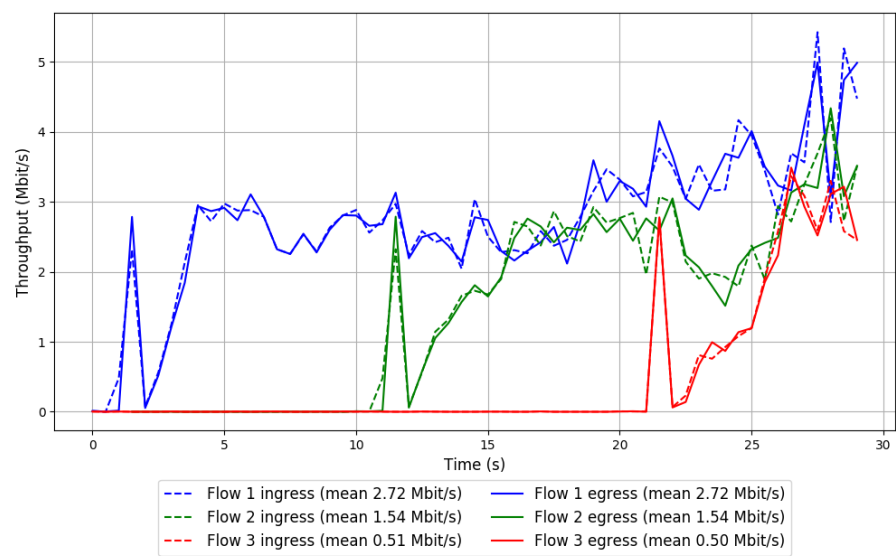
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 51.735 ms

Loss rate: 0.20%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

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

End at: Tue, 01 Aug 2017 01:22:37 +0000

Local clock offset: 0.749 ms

Remote clock offset: -0.985 ms

Below is generated by plot.py at Tue, 01 Aug 2017 05:52:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 51.199 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 50.825 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 50.215 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

