

Pantheon Summary (Generated at Mon, 10 Jul 2017 03:10:00 +0000 with pantheon version c3610718e2bbac84102e8ac47b889a75d4392d79)

Repeated the test of 15 congestion control schemes 10 times.

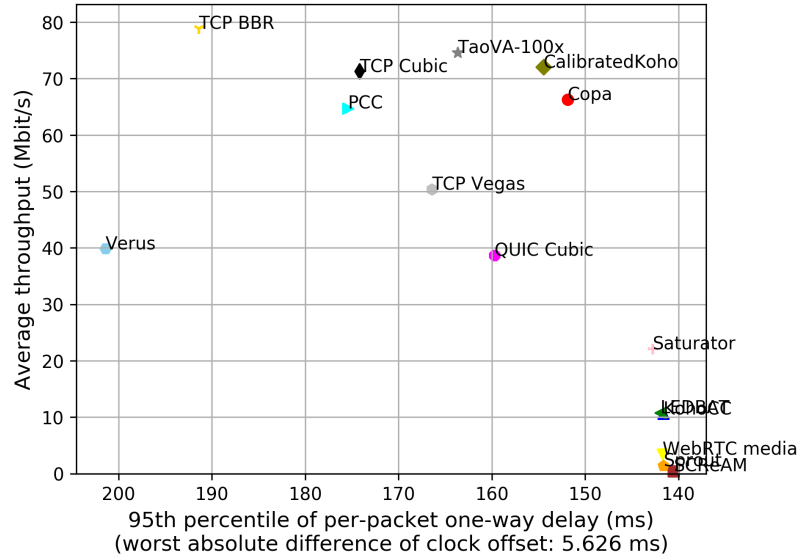
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Data path **from** China Ethernet **to** AWS Korea Ethernet.

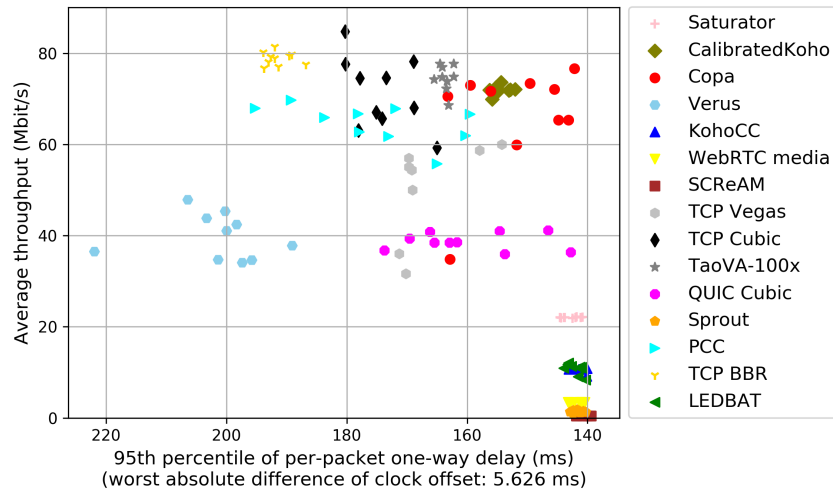
NTP offset measured against ntp.nict.jp.

```
git branch: master @ c3610718e2bbac84102e8ac47b889a75d4392d79
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ c792f8e8e0704b1646a0e024766675d8e9a835f1
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from China Ethernet to AWS Korea 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	50.23	31.43	24.11	189.25	193.92	193.64	6.92	13.95	19.55
CalibratedKoho	10	70.21	2.02	1.45	154.46	154.23	154.39	1.00	1.81	2.95
Copa	10	40.53	28.07	21.82	146.42	153.02	151.45	0.98	4.39	2.76
TCP Cubic	10	36.22	36.76	32.76	174.01	174.13	174.50	1.02	1.43	2.94
KohoCC	10	5.44	5.31	5.01	141.50	141.65	141.89	0.72	1.13	2.43
LEDBAT	10	6.90	4.69	2.43	141.95	141.87	141.83	1.28	1.80	4.33
PCC	10	44.18	25.18	11.90	171.24	177.24	191.44	1.41	2.18	3.52
QUIC Cubic	10	29.30	28.69	26.75	157.33	160.83	160.87	0.27	0.14	3.48
Saturator	10	11.20	11.09	10.91	142.58	142.78	143.23	0.72	1.10	2.24
SCReAM	10	0.22	0.22	0.22	140.49	140.45	140.46	0.67	1.06	1.88
Sprout	10	0.76	0.65	0.66	141.57	141.45	141.38	0.86	0.98	2.09
TaoVA-100x	10	45.56	35.17	18.25	162.56	164.54	163.69	4.17	7.82	18.95
TCP Vegas	10	22.67	24.39	34.99	164.97	163.71	169.68	0.80	1.36	2.93
Verus	10	27.13	15.53	8.93	197.08	194.65	190.30	35.88	28.34	23.28
WebRTC media	10	2.04	1.18	0.25	141.51	141.88	142.59	0.76	1.41	5.68

Run 1: Statistics of TCP BBR

Start at: Sun, 09 Jul 2017 23:21:02 +0000

End at: Sun, 09 Jul 2017 23:21:32 +0000

Local clock offset: -0.349 ms

Remote clock offset: -1.314 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 193.770 ms

Loss rate: 12.93%

-- Flow 1:

Average throughput: 48.01 Mbit/s

95th percentile per-packet one-way delay: 191.395 ms

Loss rate: 8.00%

-- Flow 2:

Average throughput: 32.31 Mbit/s

95th percentile per-packet one-way delay: 193.654 ms

Loss rate: 17.49%

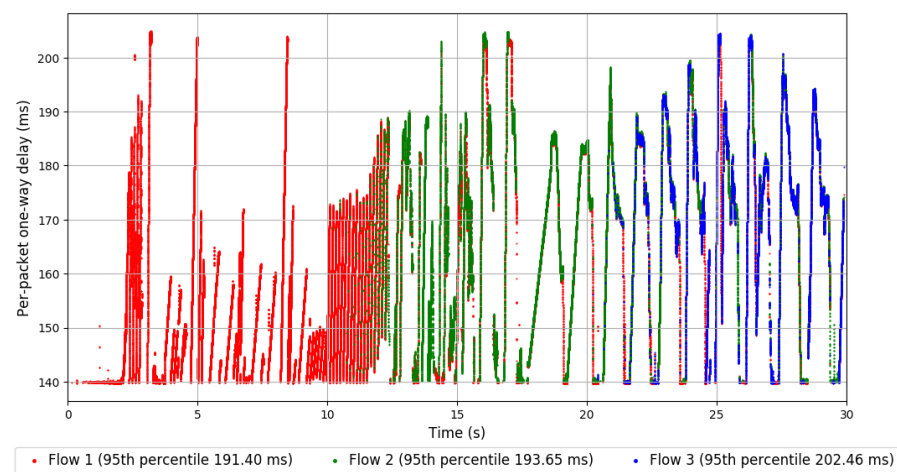
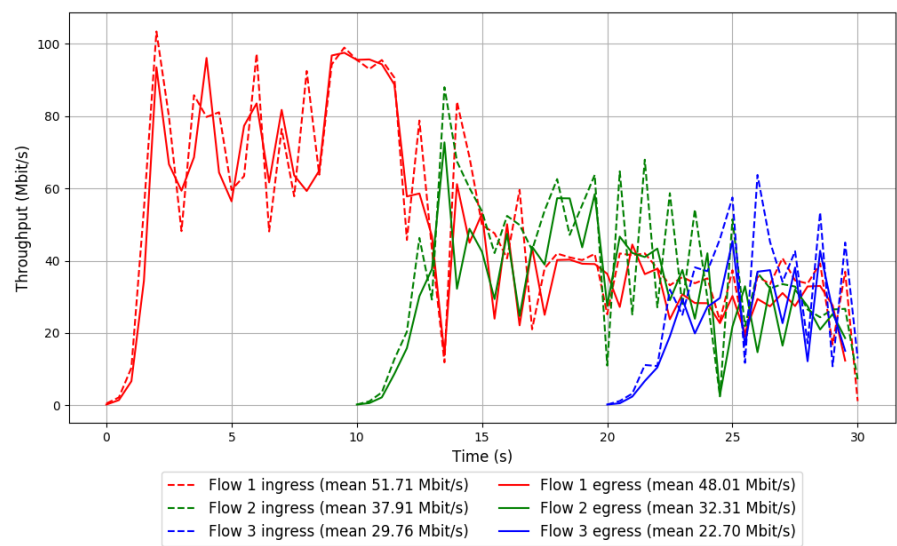
-- Flow 3:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 202.461 ms

Loss rate: 26.71%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Sun, 09 Jul 2017 23:40:57 +0000

End at: Sun, 09 Jul 2017 23:41:27 +0000

Local clock offset: -0.603 ms

Remote clock offset: -0.77 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 193.008 ms

Loss rate: 11.01%

-- Flow 1:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 191.252 ms

Loss rate: 6.57%

-- Flow 2:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 194.336 ms

Loss rate: 15.42%

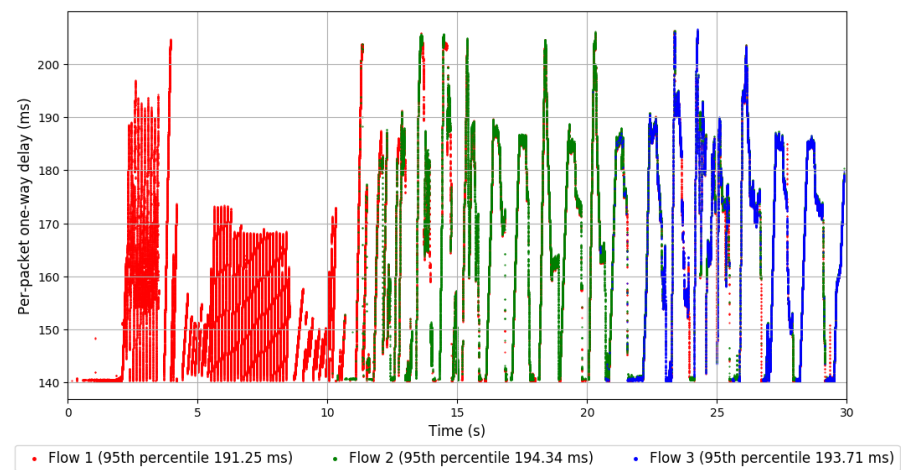
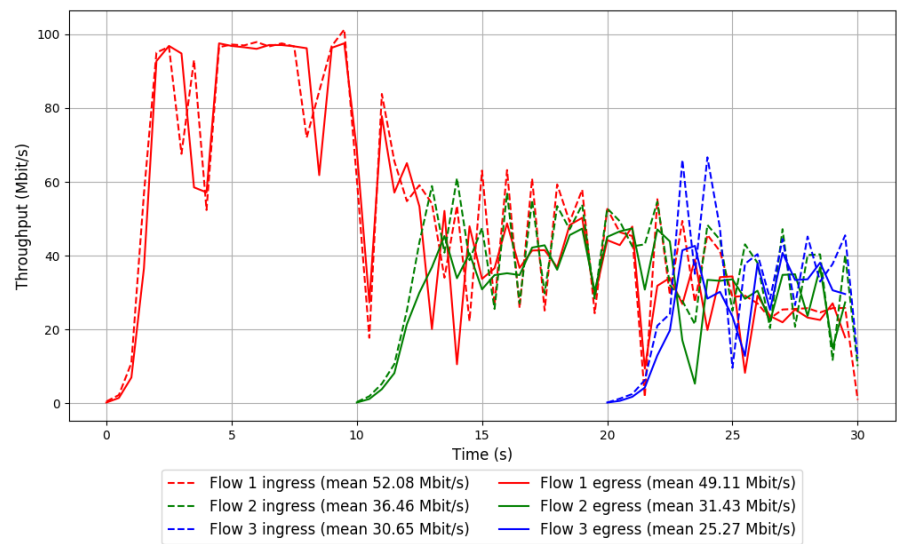
-- Flow 3:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 193.712 ms

Loss rate: 22.74%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 00:00:55 +0000

End at: Mon, 10 Jul 2017 00:01:25 +0000

Local clock offset: -0.572 ms

Remote clock offset: -1.729 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.49 Mbit/s

95th percentile per-packet one-way delay: 189.579 ms

Loss rate: 9.53%

-- Flow 1:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 187.573 ms

Loss rate: 7.03%

-- Flow 2:

Average throughput: 28.77 Mbit/s

95th percentile per-packet one-way delay: 192.981 ms

Loss rate: 12.32%

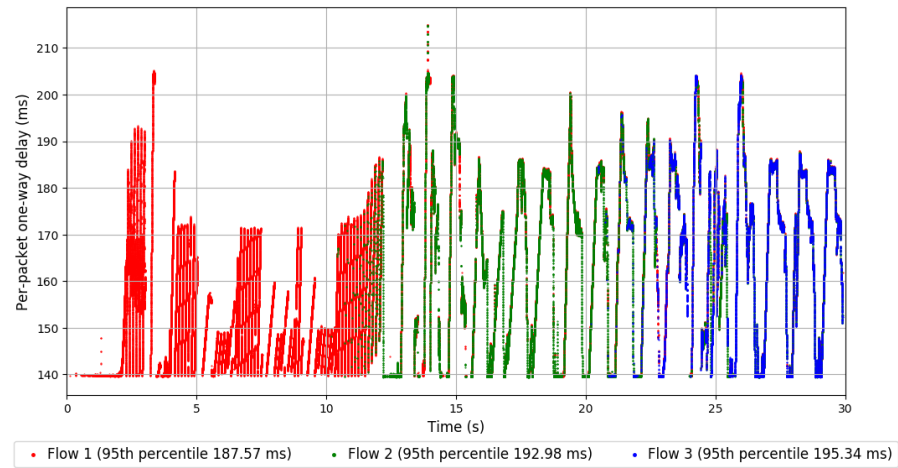
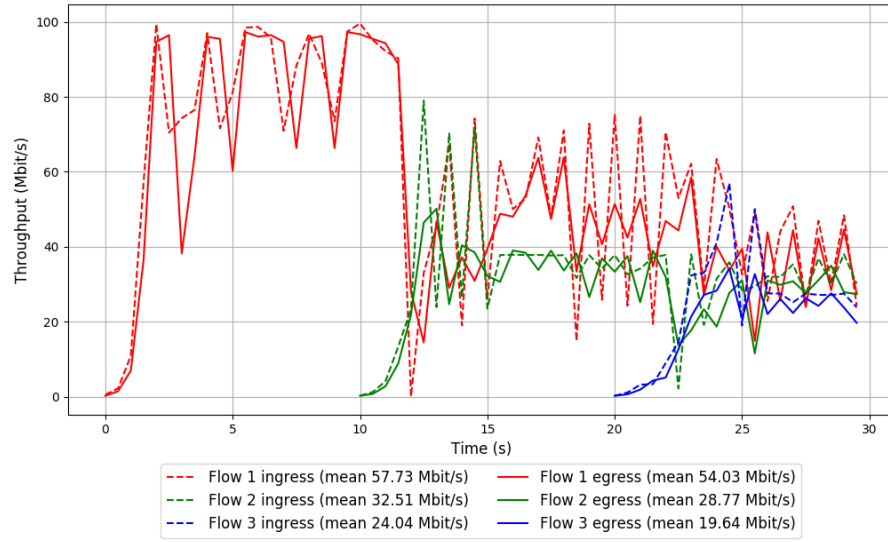
-- Flow 3:

Average throughput: 19.64 Mbit/s

95th percentile per-packet one-way delay: 195.335 ms

Loss rate: 20.11%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 00:20:48 +0000

End at: Mon, 10 Jul 2017 00:21:18 +0000

Local clock offset: -0.712 ms

Remote clock offset: -2.105 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 189.161 ms

Loss rate: 9.61%

-- Flow 1:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 188.436 ms

Loss rate: 7.73%

-- Flow 2:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 190.013 ms

Loss rate: 11.80%

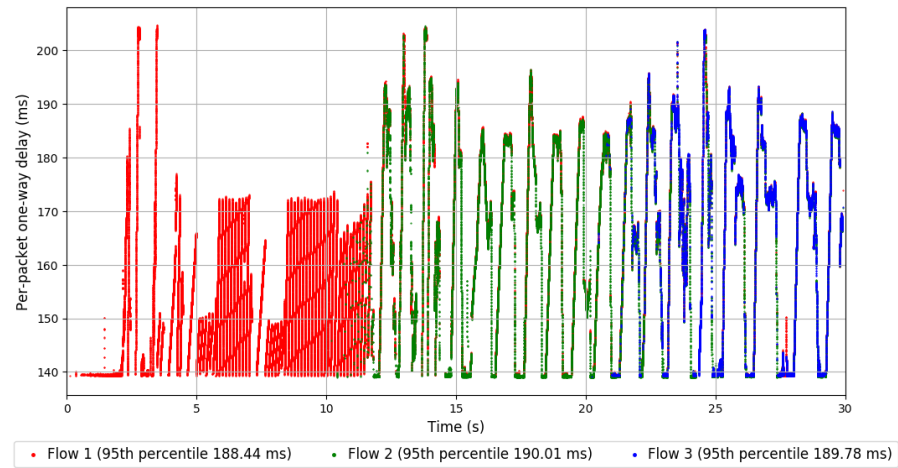
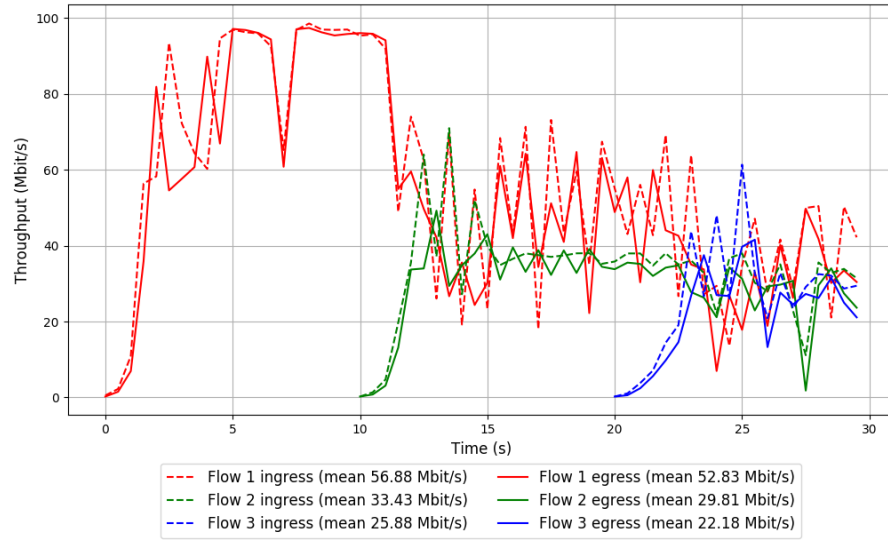
-- Flow 3:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 189.783 ms

Loss rate: 16.40%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 00:40:59 +0000

End at: Mon, 10 Jul 2017 00:41:29 +0000

Local clock offset: -0.621 ms

Remote clock offset: -2.334 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.23 Mbit/s

95th percentile per-packet one-way delay: 192.670 ms

Loss rate: 10.57%

-- Flow 1:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 189.085 ms

Loss rate: 7.54%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 197.799 ms

Loss rate: 15.43%

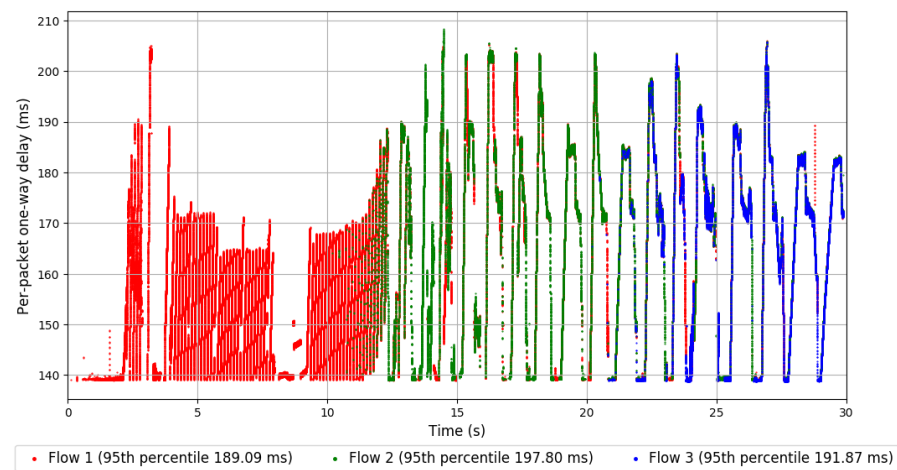
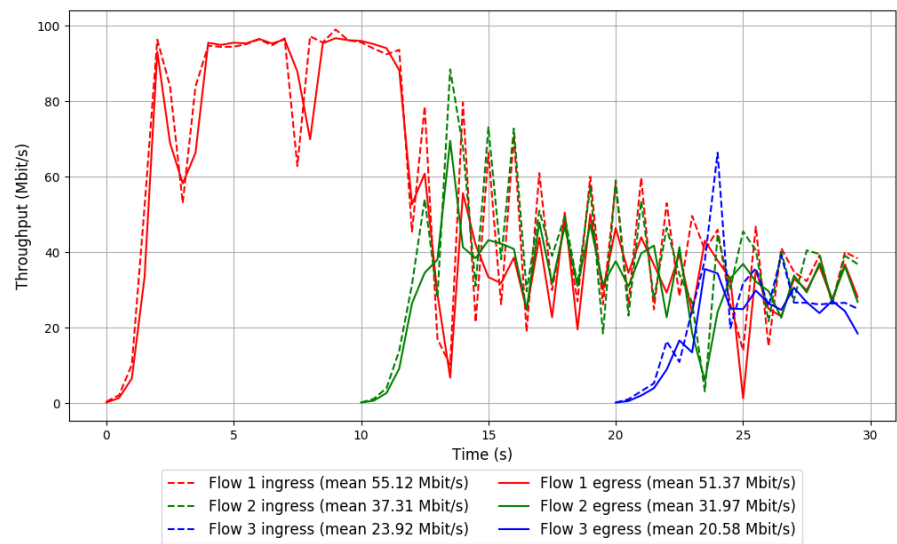
-- Flow 3:

Average throughput: 20.58 Mbit/s

95th percentile per-packet one-way delay: 191.867 ms

Loss rate: 16.33%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 01:00:55 +0000

End at: Mon, 10 Jul 2017 01:01:25 +0000

Local clock offset: -0.447 ms

Remote clock offset: -2.145 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 186.842 ms

Loss rate: 7.11%

-- Flow 1:

Average throughput: 48.02 Mbit/s

95th percentile per-packet one-way delay: 185.301 ms

Loss rate: 4.37%

-- Flow 2:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 188.568 ms

Loss rate: 9.65%

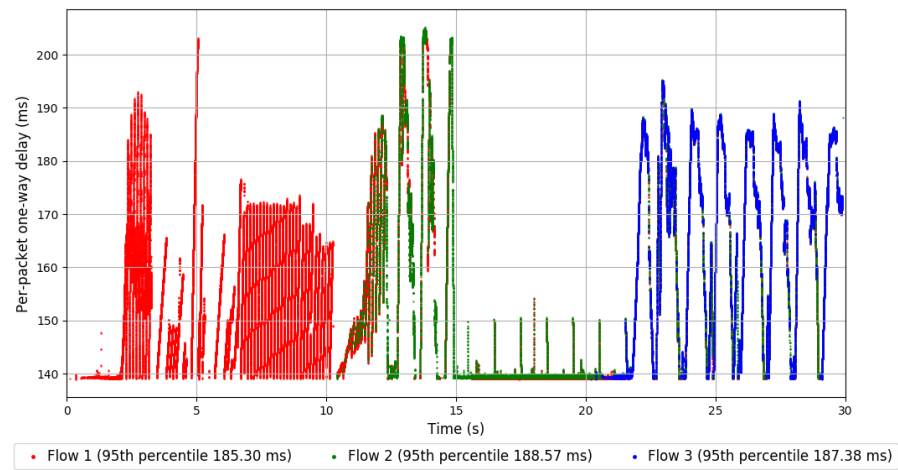
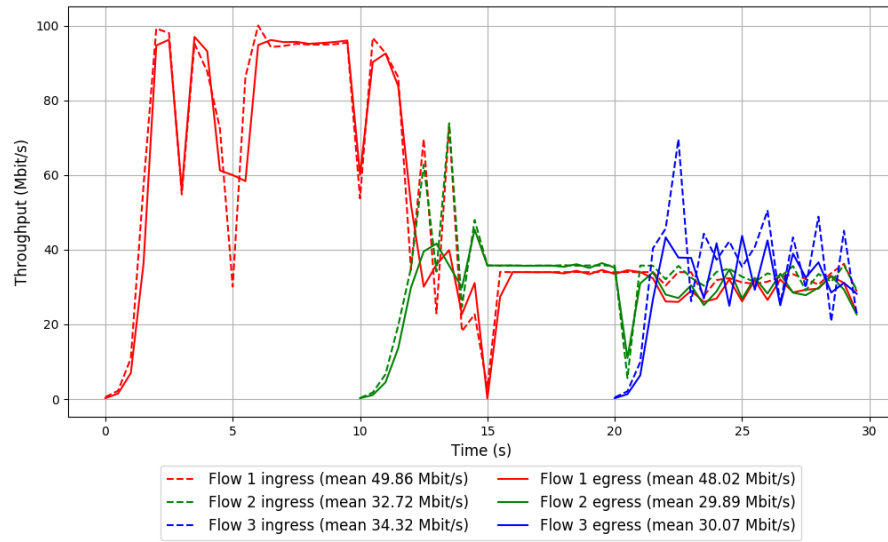
-- Flow 3:

Average throughput: 30.07 Mbit/s

95th percentile per-packet one-way delay: 187.383 ms

Loss rate: 14.26%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 01:20:57 +0000

End at: Mon, 10 Jul 2017 01:21:27 +0000

Local clock offset: -0.354 ms

Remote clock offset: -1.805 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.07 Mbit/s

95th percentile per-packet one-way delay: 191.383 ms

Loss rate: 10.71%

-- Flow 1:

Average throughput: 46.62 Mbit/s

95th percentile per-packet one-way delay: 189.294 ms

Loss rate: 7.33%

-- Flow 2:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 194.418 ms

Loss rate: 14.56%

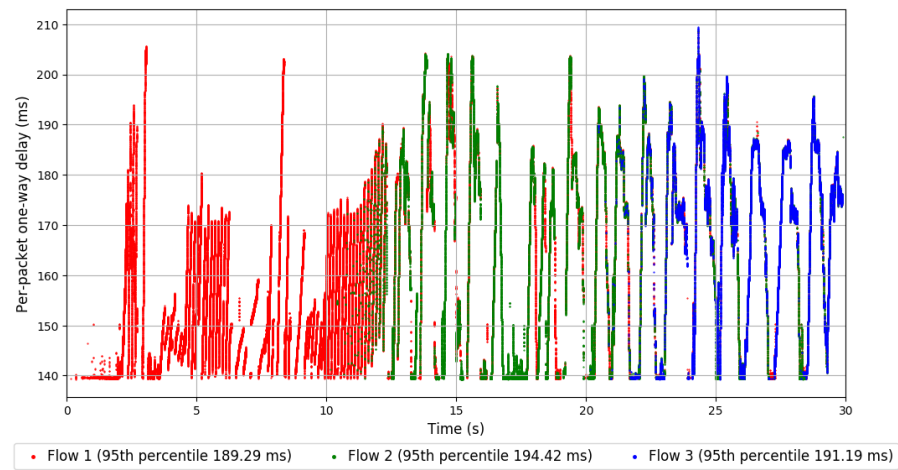
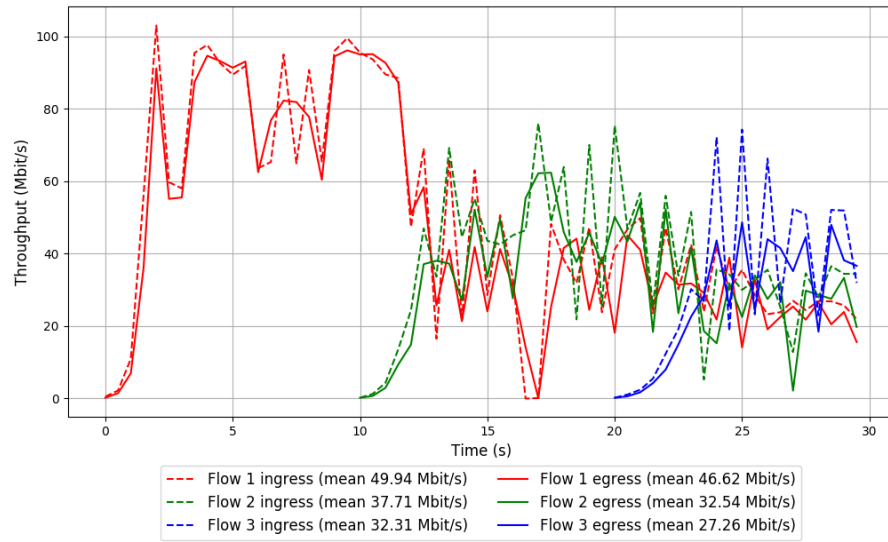
-- Flow 3:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 191.192 ms

Loss rate: 17.43%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 01:40:48 +0000

End at: Mon, 10 Jul 2017 01:41:18 +0000

Local clock offset: 0.755 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 191.997 ms

Loss rate: 11.46%

-- Flow 1:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 189.110 ms

Loss rate: 7.08%

-- Flow 2:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 194.963 ms

Loss rate: 15.92%

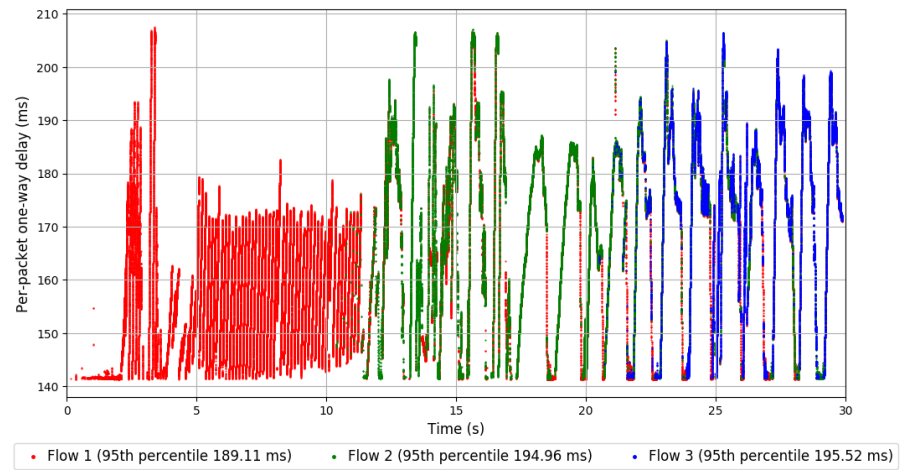
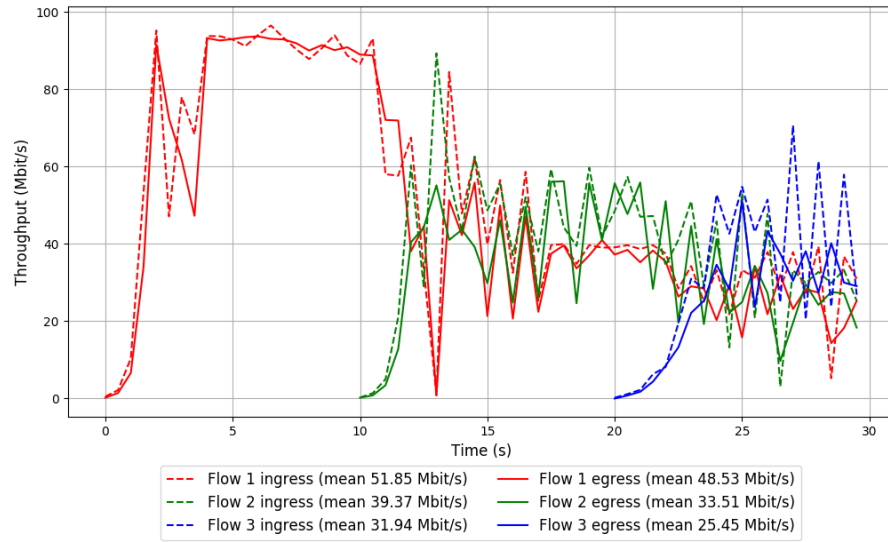
-- Flow 3:

Average throughput: 25.45 Mbit/s

95th percentile per-packet one-way delay: 195.517 ms

Loss rate: 21.97%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 02:00:40 +0000

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

Local clock offset: -0.836 ms

Remote clock offset: -0.204 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.49 Mbit/s

95th percentile per-packet one-way delay: 191.966 ms

Loss rate: 9.20%

-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 188.844 ms

Loss rate: 5.26%

-- Flow 2:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 195.183 ms

Loss rate: 13.36%

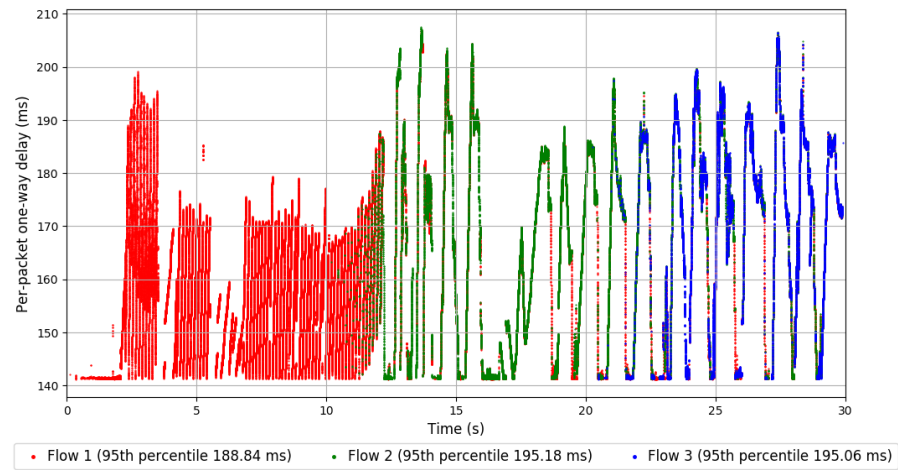
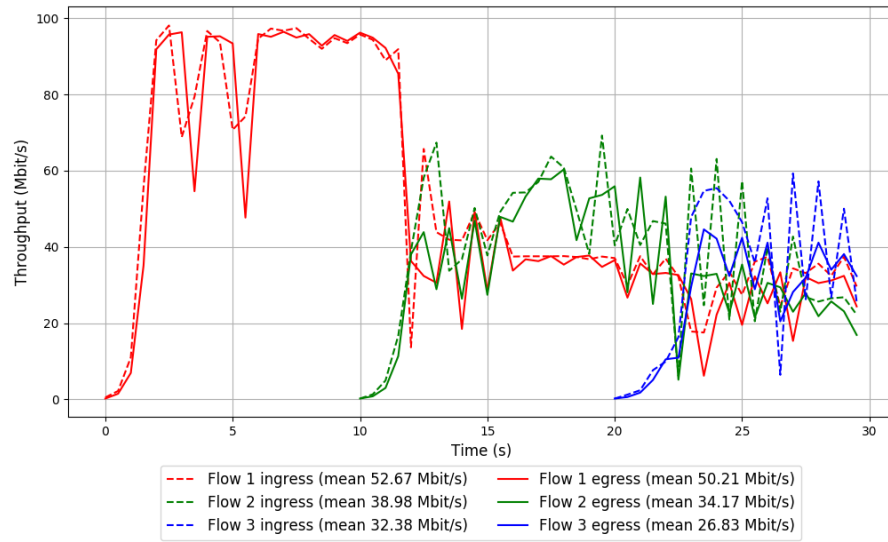
-- Flow 3:

Average throughput: 26.83 Mbit/s

95th percentile per-packet one-way delay: 195.056 ms

Loss rate: 18.61%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: Mon, 10 Jul 2017 02:20:33 +0000

End at: Mon, 10 Jul 2017 02:21:03 +0000

Local clock offset: -0.942 ms

Remote clock offset: -0.386 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.20 Mbit/s

95th percentile per-packet one-way delay: 193.921 ms

Loss rate: 10.82%

-- Flow 1:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 192.186 ms

Loss rate: 8.25%

-- Flow 2:

Average throughput: 29.87 Mbit/s

95th percentile per-packet one-way delay: 197.306 ms

Loss rate: 13.53%

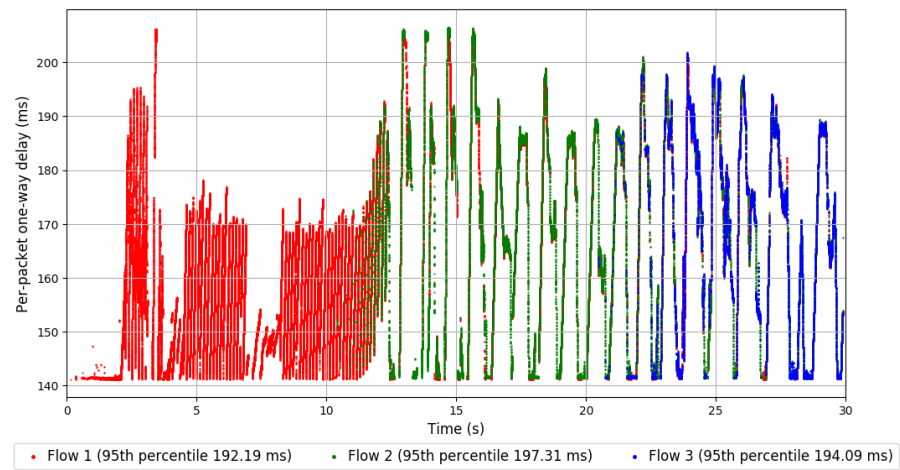
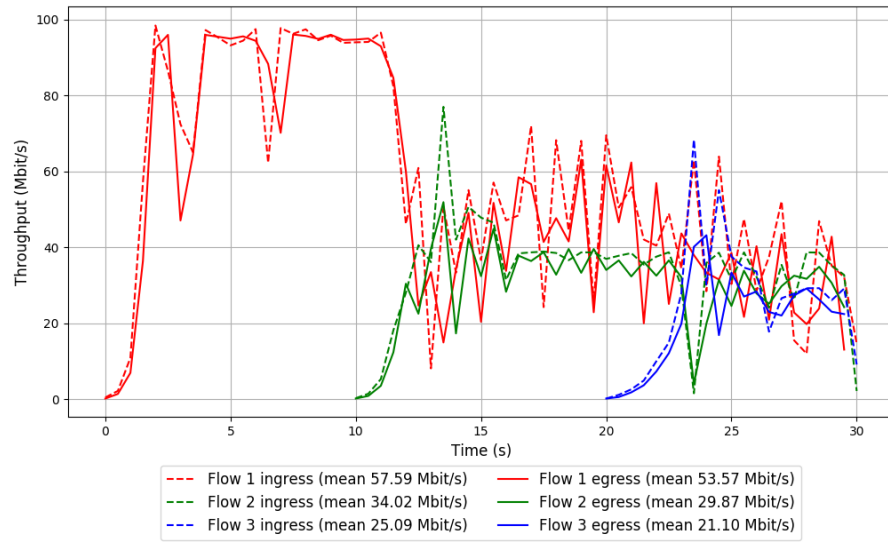
-- Flow 3:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 194.088 ms

Loss rate: 20.98%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Sun, 09 Jul 2017 23:15:50 +0000

End at: Sun, 09 Jul 2017 23:16:20 +0000

Local clock offset: 0.805 ms

Remote clock offset: -1.419 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.70 Mbit/s

95th percentile per-packet one-way delay: 155.036 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 70.97 Mbit/s

95th percentile per-packet one-way delay: 155.032 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 154.015 ms

Loss rate: 1.81%

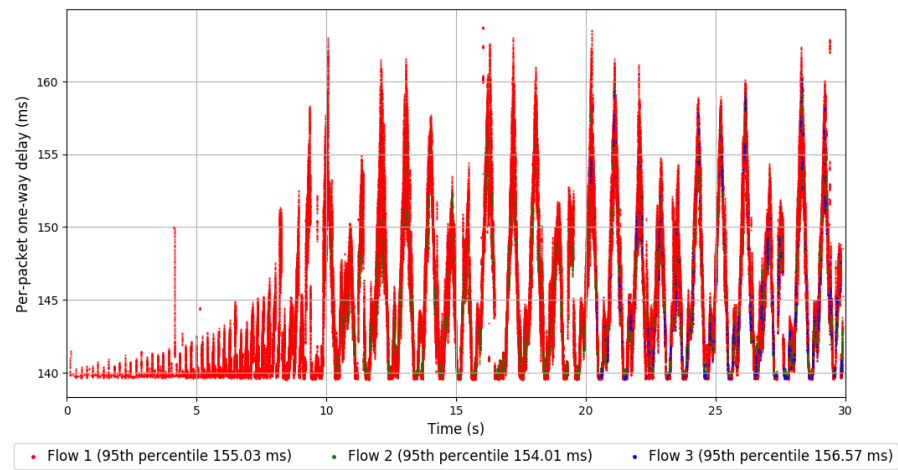
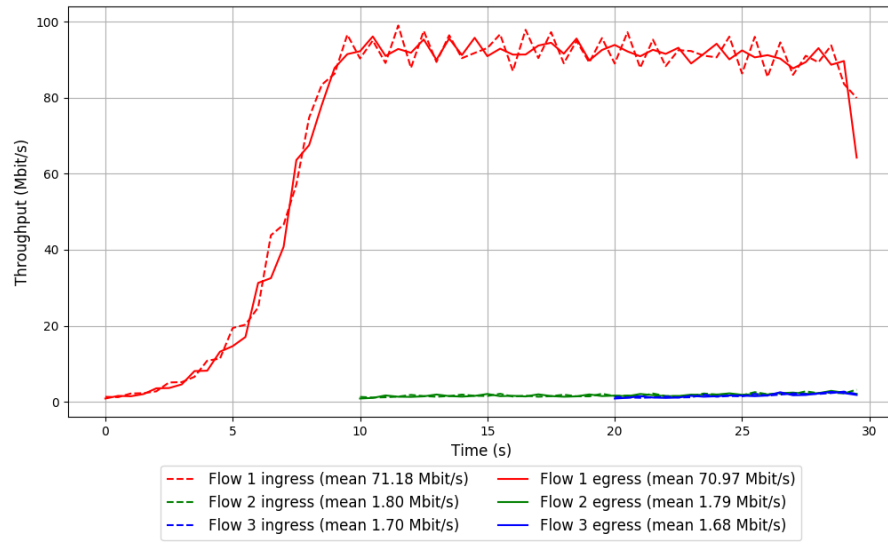
-- Flow 3:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 156.566 ms

Loss rate: 3.07%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Sun, 09 Jul 2017 23:35:45 +0000

End at: Sun, 09 Jul 2017 23:36:15 +0000

Local clock offset: -0.475 ms

Remote clock offset: -0.91 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:01:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 155.159 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 155.175 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 154.076 ms

Loss rate: 1.36%

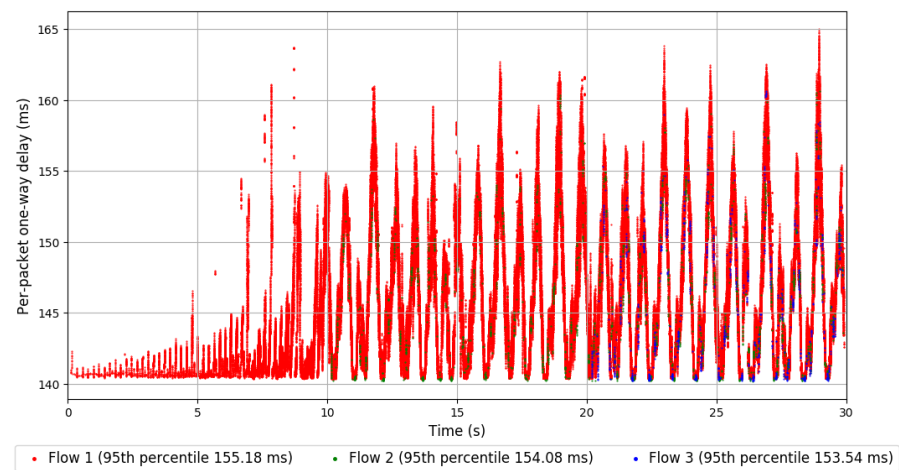
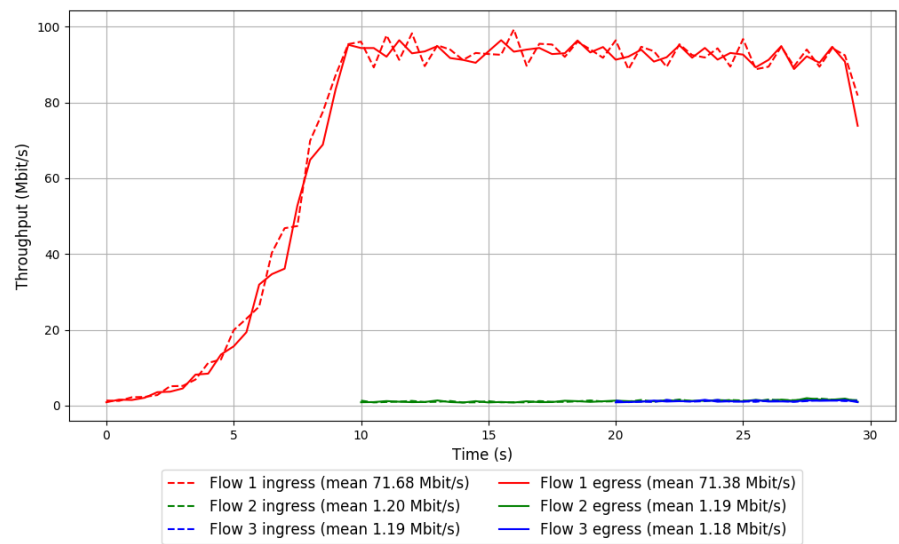
-- Flow 3:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 153.545 ms

Loss rate: 2.45%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Sun, 09 Jul 2017 23:55:39 +0000

End at: Sun, 09 Jul 2017 23:56:09 +0000

Local clock offset: 0.587 ms

Remote clock offset: -1.398 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 154.922 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 70.81 Mbit/s

95th percentile per-packet one-way delay: 154.932 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 154.039 ms

Loss rate: 1.48%

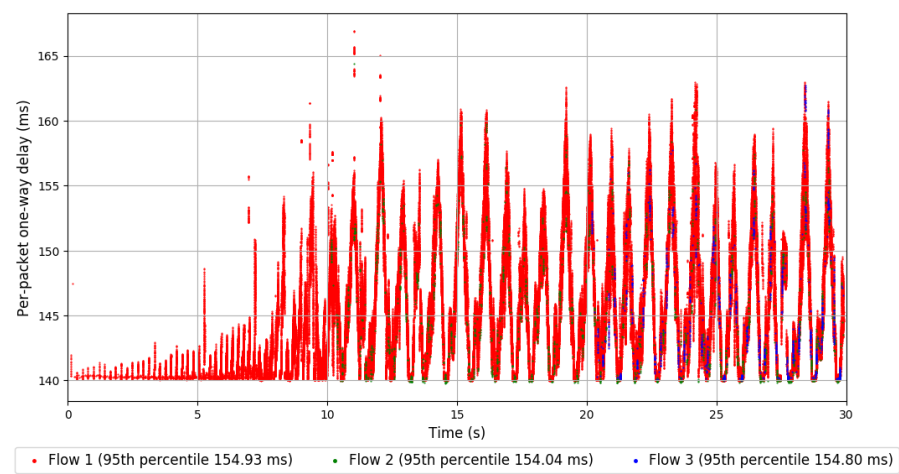
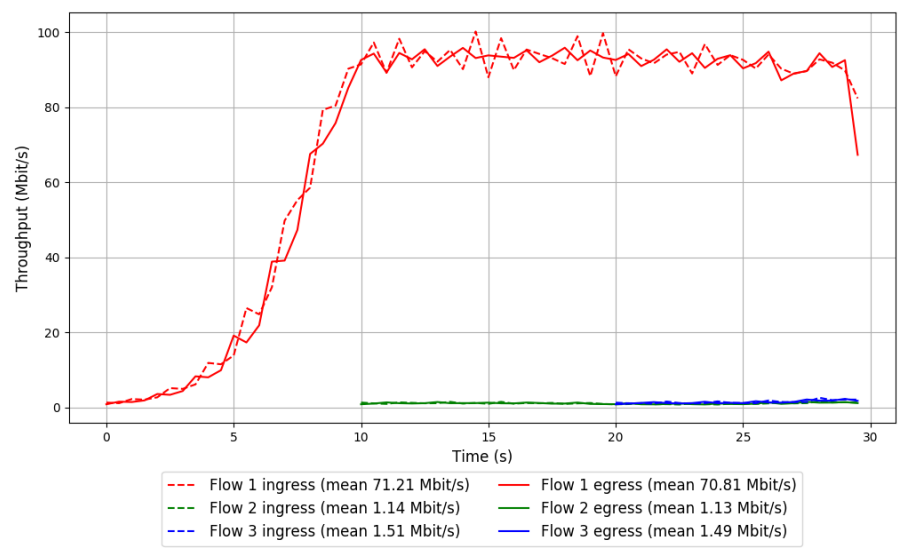
-- Flow 3:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 154.799 ms

Loss rate: 3.69%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 00:15:37 +0000

End at: Mon, 10 Jul 2017 00:16:07 +0000

Local clock offset: -0.513 ms

Remote clock offset: -1.998 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.66 Mbit/s

95th percentile per-packet one-way delay: 154.342 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 154.359 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 154.192 ms

Loss rate: 1.70%

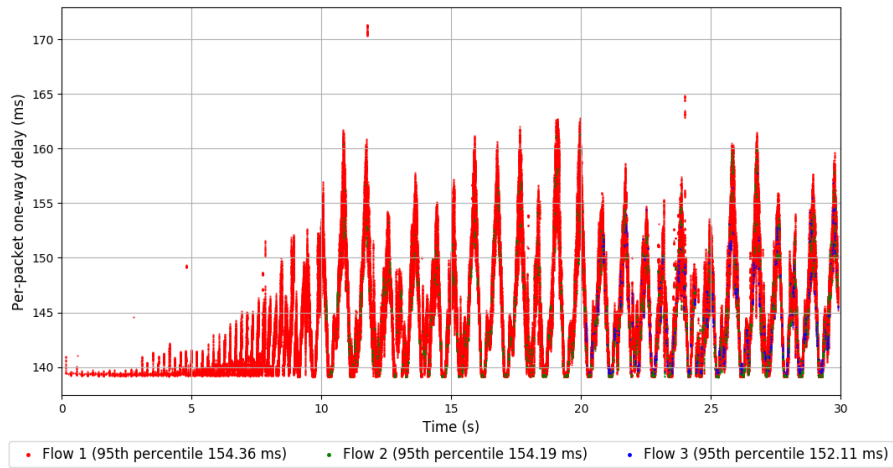
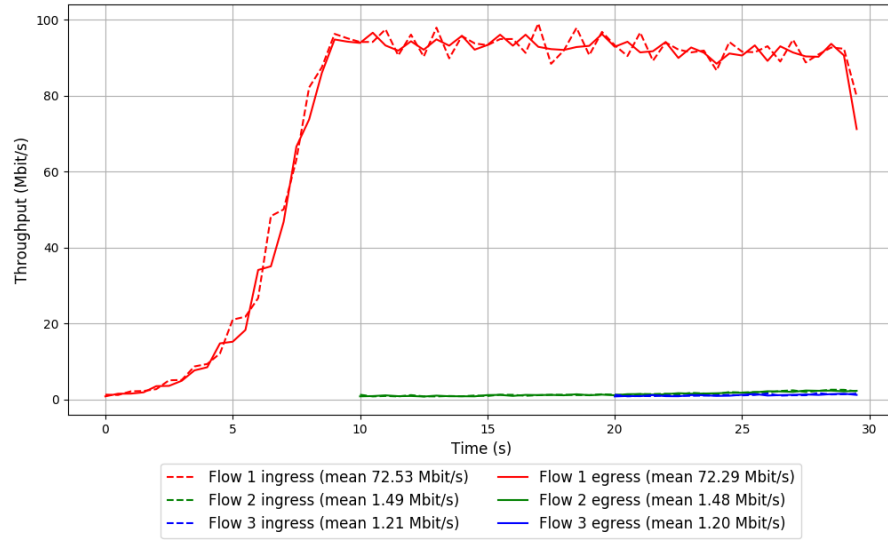
-- Flow 3:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 152.108 ms

Loss rate: 2.90%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 00:35:43 +0000

End at: Mon, 10 Jul 2017 00:36:13 +0000

Local clock offset: -0.476 ms

Remote clock offset: -2.291 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.07 Mbit/s

95th percentile per-packet one-way delay: 152.811 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 69.81 Mbit/s

95th percentile per-packet one-way delay: 152.831 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 152.057 ms

Loss rate: 1.49%

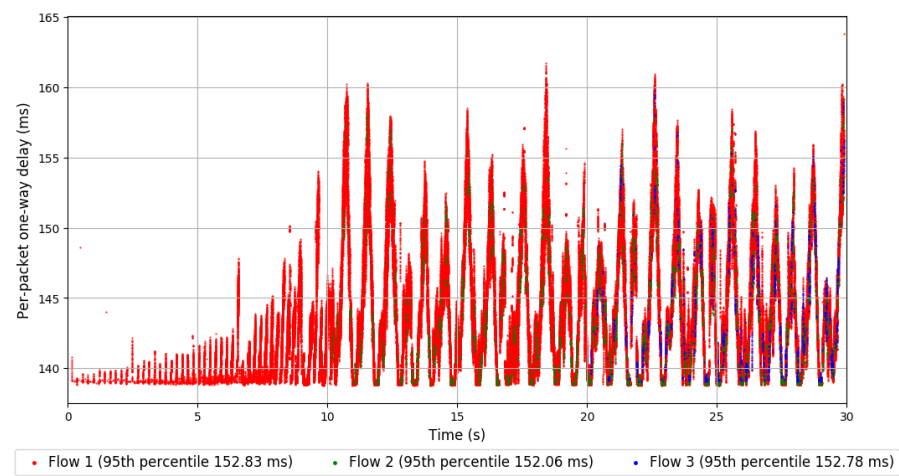
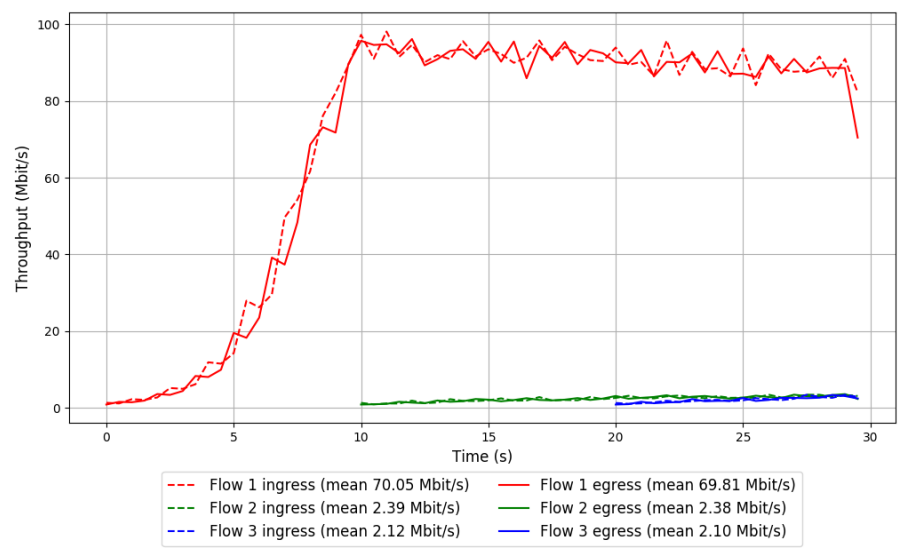
-- Flow 3:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 152.775 ms

Loss rate: 3.18%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 00:55:43 +0000

End at: Mon, 10 Jul 2017 00:56:13 +0000

Local clock offset: -0.55 ms

Remote clock offset: -2.165 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 152.011 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 69.05 Mbit/s

95th percentile per-packet one-way delay: 152.055 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 151.250 ms

Loss rate: 1.96%

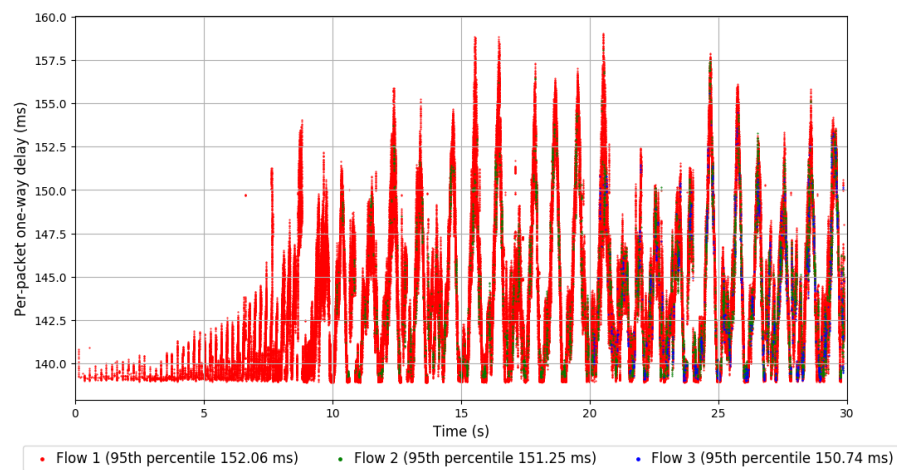
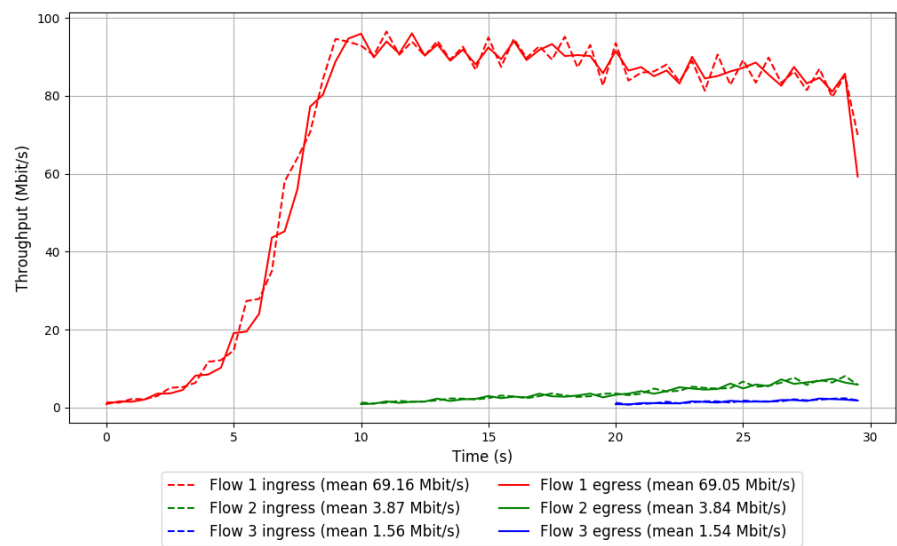
-- Flow 3:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 150.739 ms

Loss rate: 2.95%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 01:15:36 +0000

End at: Mon, 10 Jul 2017 01:16:06 +0000

Local clock offset: -0.364 ms

Remote clock offset: -1.76 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.83 Mbit/s

95th percentile per-packet one-way delay: 153.085 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 153.047 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 154.138 ms

Loss rate: 1.99%

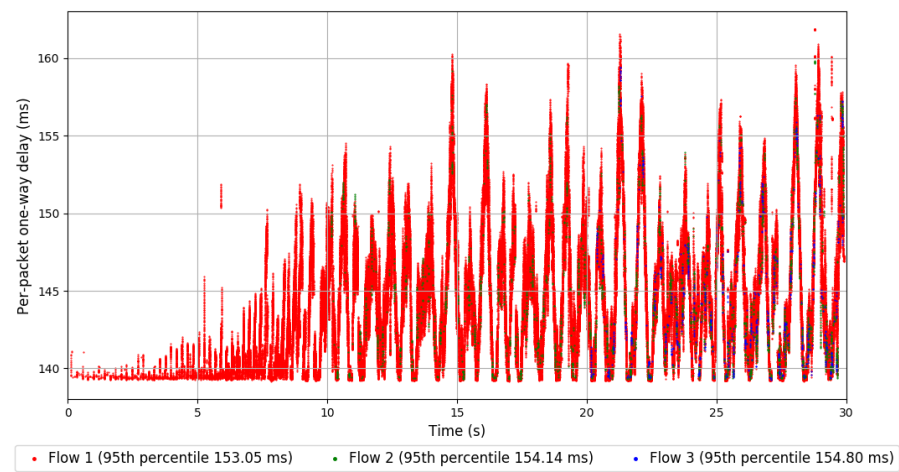
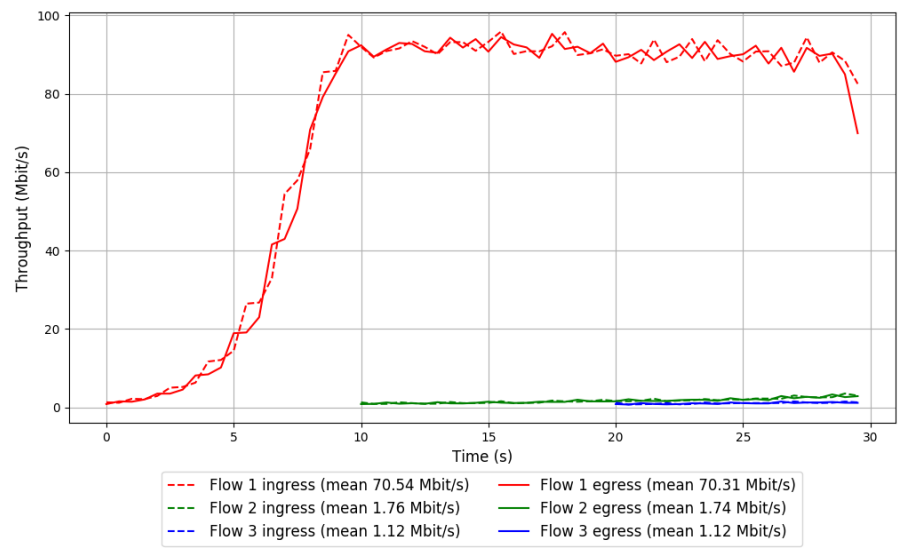
-- Flow 3:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 154.798 ms

Loss rate: 2.70%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 01:35:31 +0000

End at: Mon, 10 Jul 2017 01:36:02 +0000

Local clock offset: -0.577 ms

Remote clock offset: -0.103 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.89 Mbit/s

95th percentile per-packet one-way delay: 155.841 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 155.814 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 156.714 ms

Loss rate: 2.00%

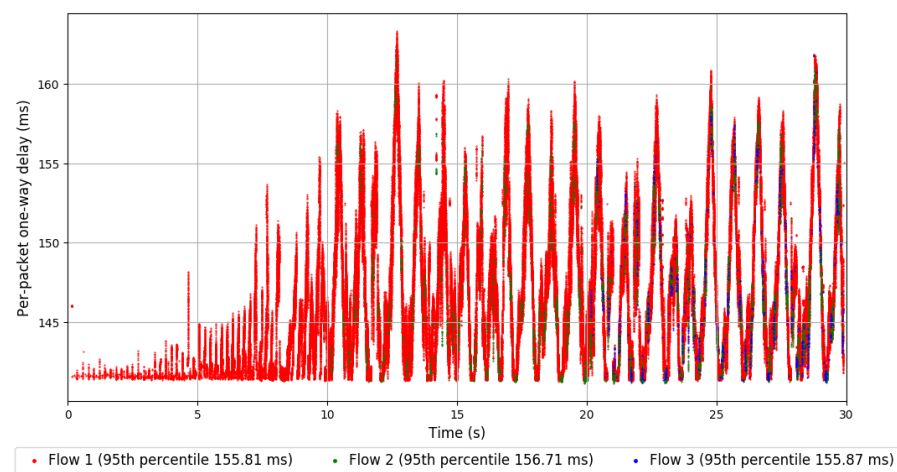
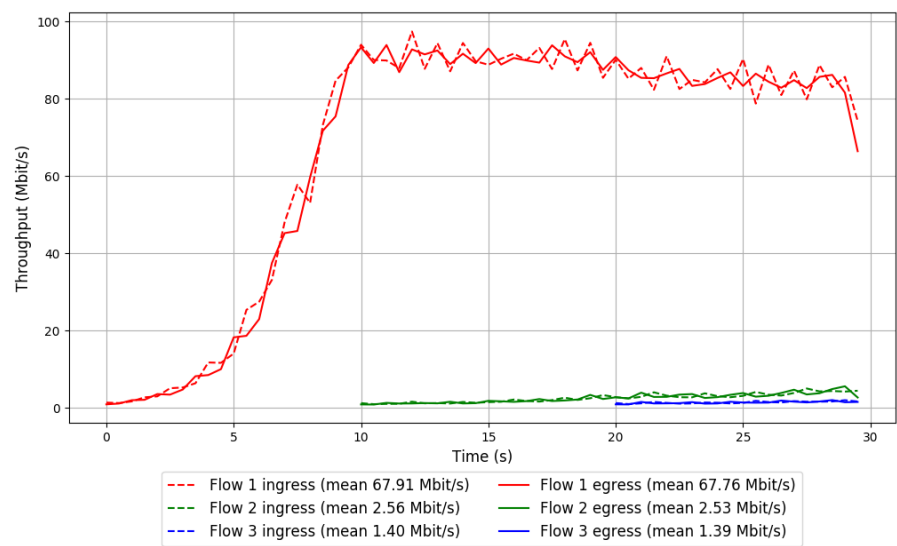
-- Flow 3:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 155.871 ms

Loss rate: 2.77%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 01:55:29 +0000

End at: Mon, 10 Jul 2017 01:55:59 +0000

Local clock offset: 0.166 ms

Remote clock offset: -0.123 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 156.293 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 156.300 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 155.935 ms

Loss rate: 2.63%

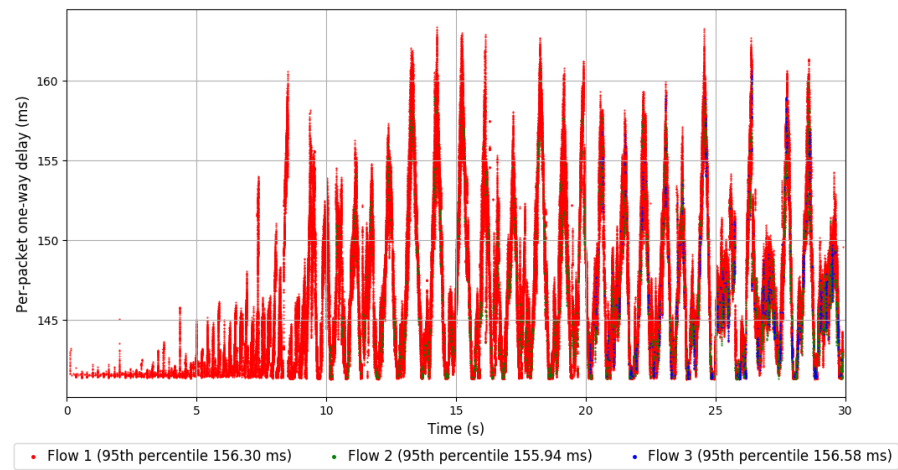
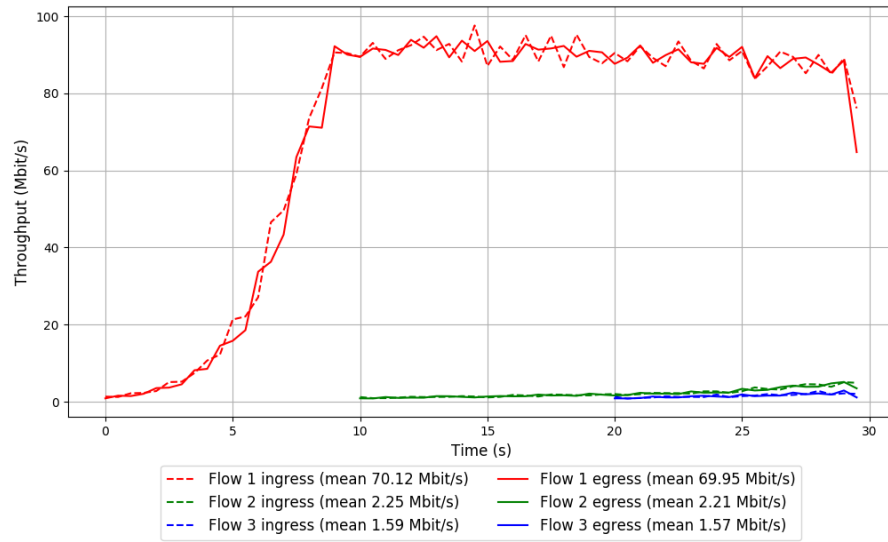
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 156.579 ms

Loss rate: 3.35%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: Mon, 10 Jul 2017 02:15:21 +0000

End at: Mon, 10 Jul 2017 02:15:51 +0000

Local clock offset: 0.3 ms

Remote clock offset: -0.353 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.42 Mbit/s

95th percentile per-packet one-way delay: 155.034 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 69.73 Mbit/s

95th percentile per-packet one-way delay: 155.007 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 155.851 ms

Loss rate: 1.70%

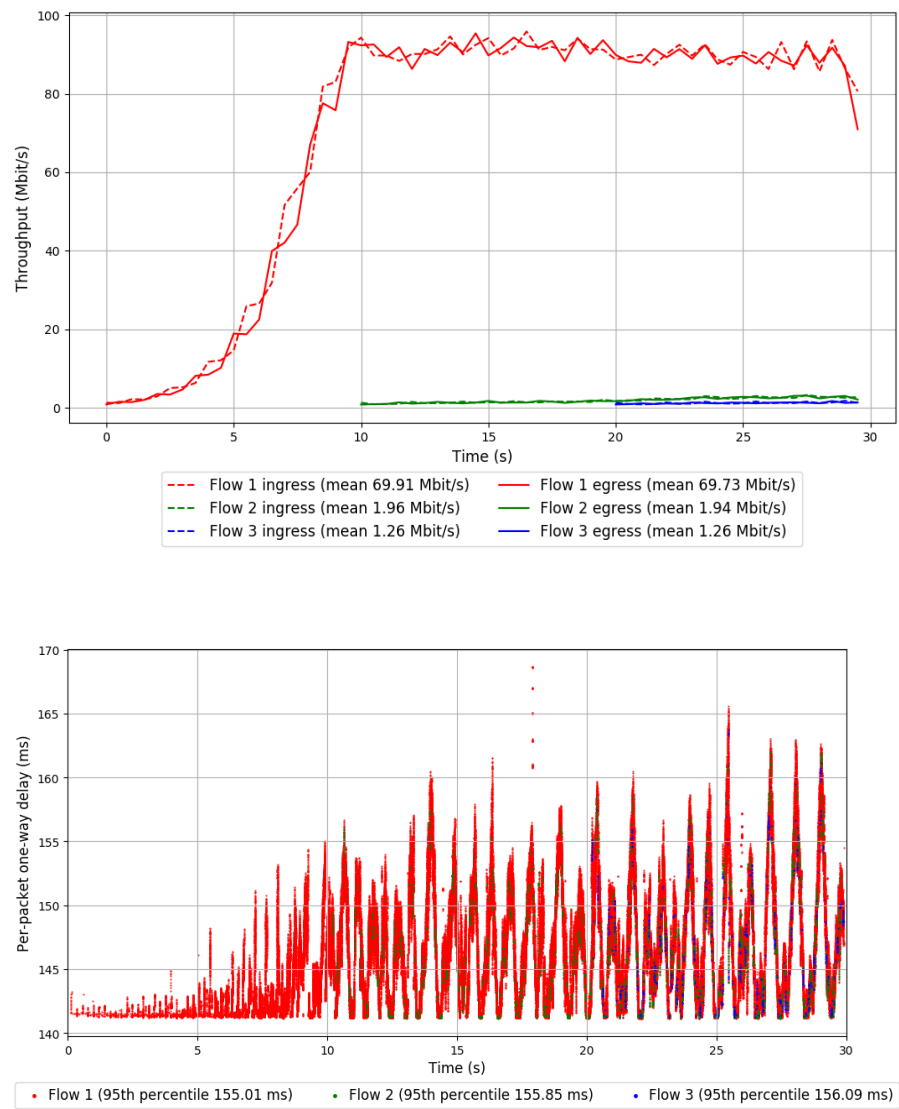
-- Flow 3:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 156.089 ms

Loss rate: 2.39%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Sun, 09 Jul 2017 23:31:46 +0000

End at: Sun, 09 Jul 2017 23:32:16 +0000

Local clock offset: -0.4 ms

Remote clock offset: -1.038 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 159.469 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 42.84 Mbit/s

95th percentile per-packet one-way delay: 151.279 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 160.868 ms

Loss rate: 1.28%

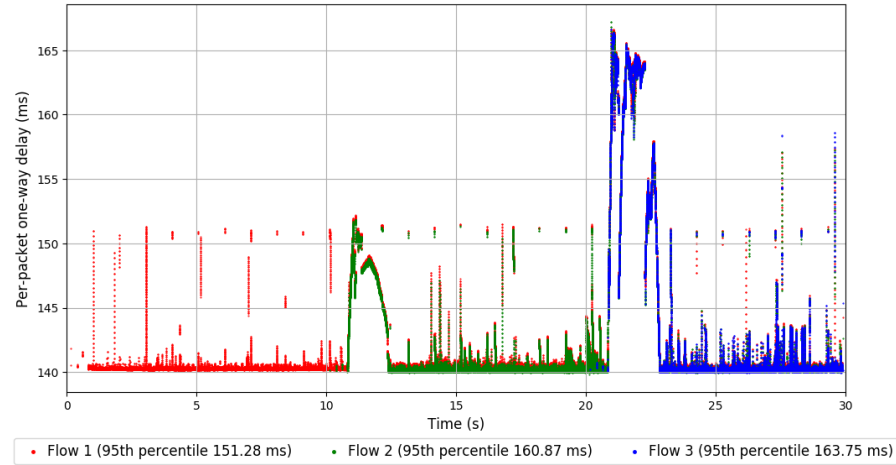
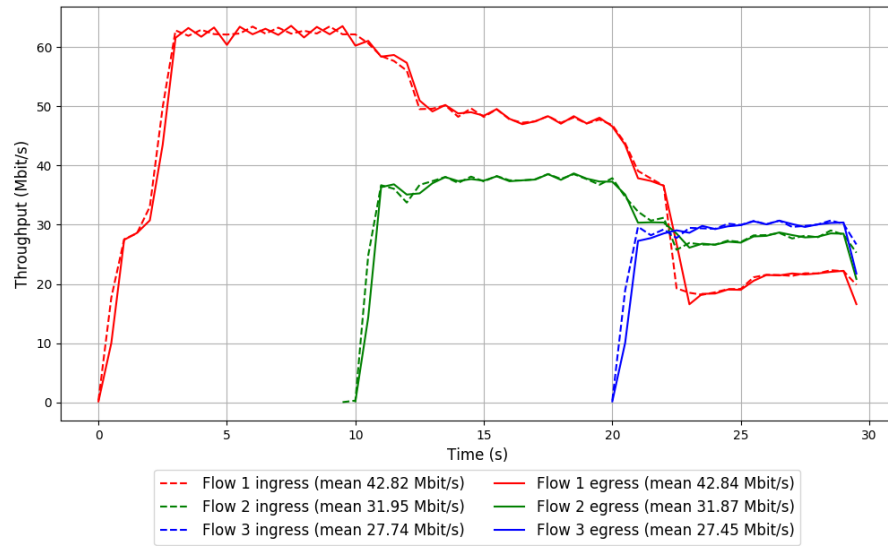
-- Flow 3:

Average throughput: 27.45 Mbit/s

95th percentile per-packet one-way delay: 163.745 ms

Loss rate: 3.10%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Sun, 09 Jul 2017 23:51:41 +0000

End at: Sun, 09 Jul 2017 23:52:11 +0000

Local clock offset: -0.596 ms

Remote clock offset: -1.12 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:02:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 145.480 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 42.74 Mbit/s

95th percentile per-packet one-way delay: 143.422 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 146.266 ms

Loss rate: 1.15%

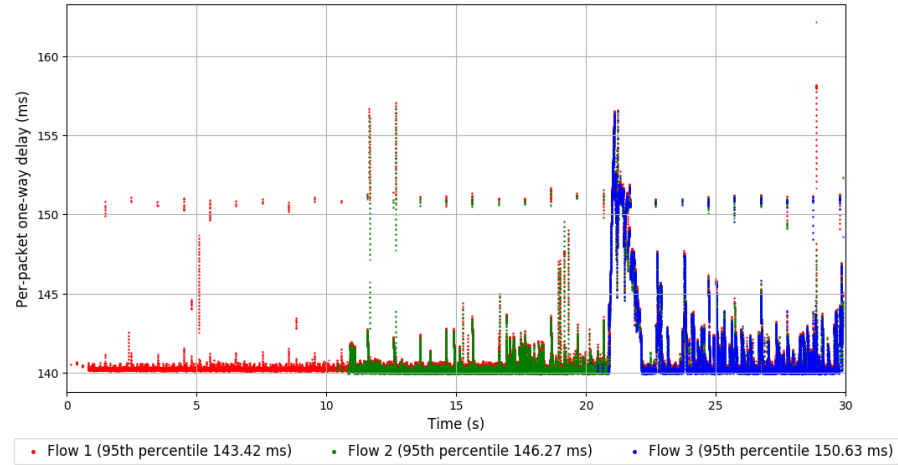
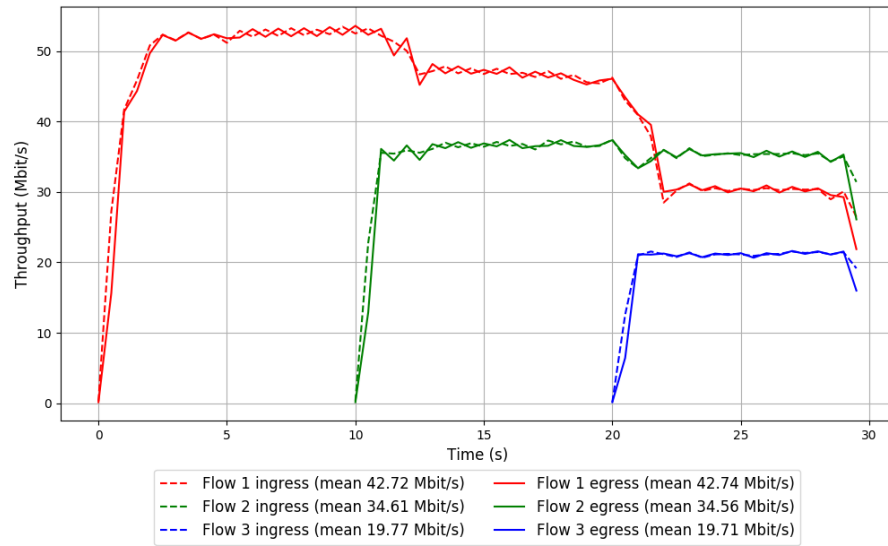
-- Flow 3:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 150.634 ms

Loss rate: 2.39%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Mon, 10 Jul 2017 00:11:38 +0000

End at: Mon, 10 Jul 2017 00:12:08 +0000

Local clock offset: -0.607 ms

Remote clock offset: -1.969 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.53 Mbit/s

95th percentile per-packet one-way delay: 163.223 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 43.11 Mbit/s

95th percentile per-packet one-way delay: 153.486 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 29.28 Mbit/s

95th percentile per-packet one-way delay: 163.286 ms

Loss rate: 1.82%

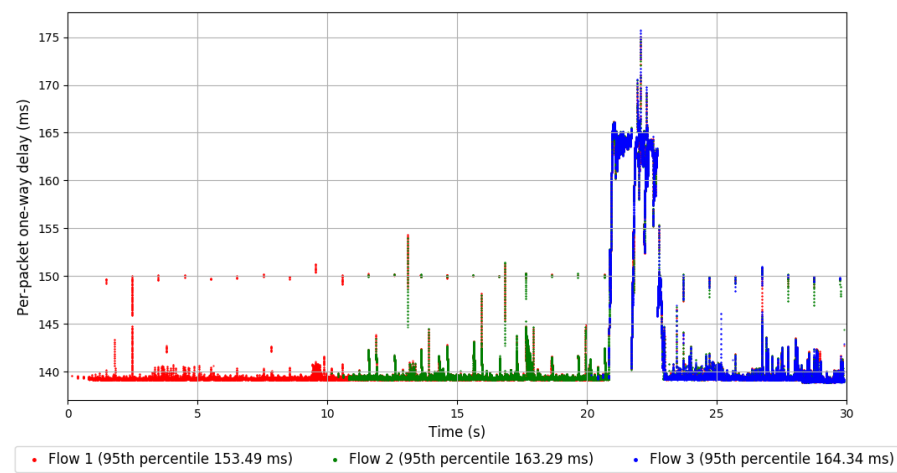
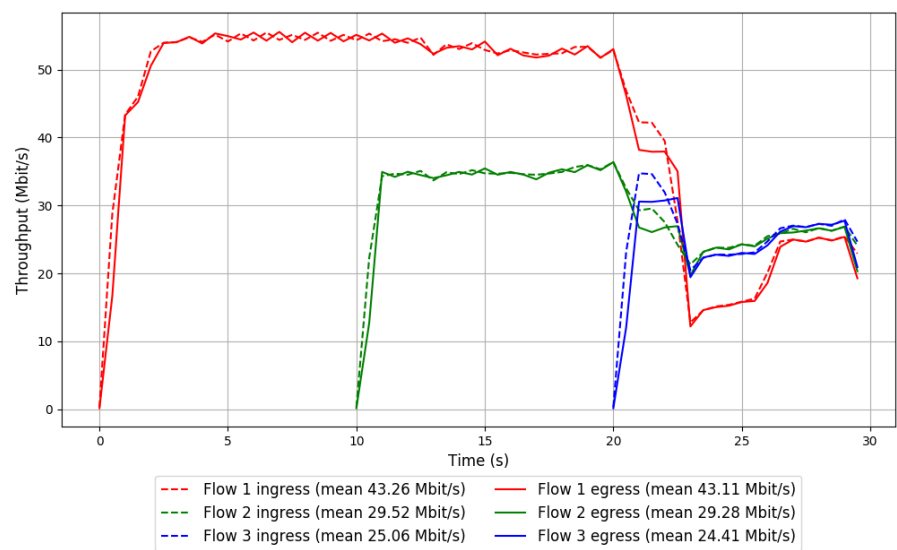
-- Flow 3:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 164.339 ms

Loss rate: 4.65%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Mon, 10 Jul 2017 00:31:38 +0000

End at: Mon, 10 Jul 2017 00:32:08 +0000

Local clock offset: 0.585 ms

Remote clock offset: -2.265 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.68 Mbit/s

95th percentile per-packet one-way delay: 142.162 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 48.79 Mbit/s

95th percentile per-packet one-way delay: 141.875 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 34.52 Mbit/s

95th percentile per-packet one-way delay: 142.570 ms

Loss rate: 1.03%

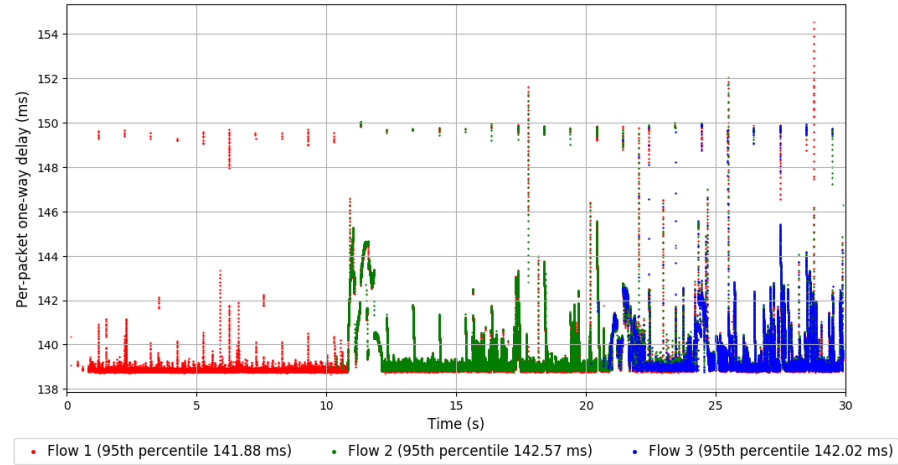
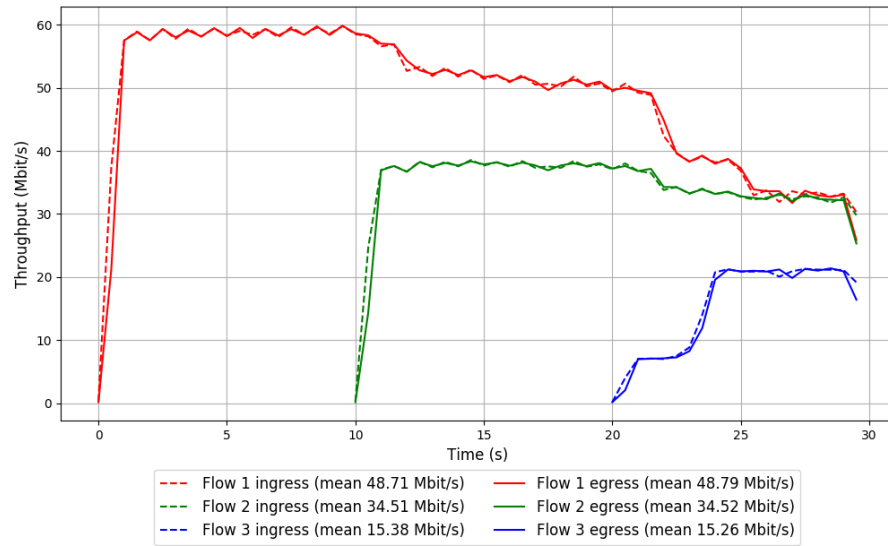
-- Flow 3:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 142.024 ms

Loss rate: 2.91%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Mon, 10 Jul 2017 00:51:42 +0000

End at: Mon, 10 Jul 2017 00:52:12 +0000

Local clock offset: 0.807 ms

Remote clock offset: -2.286 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.69 Mbit/s

95th percentile per-packet one-way delay: 156.114 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 147.633 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 28.51 Mbit/s

95th percentile per-packet one-way delay: 157.397 ms

Loss rate: 1.11%

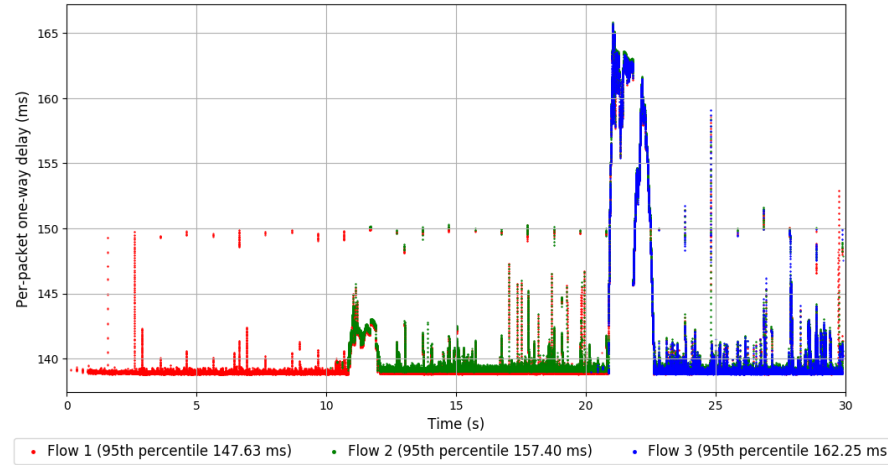
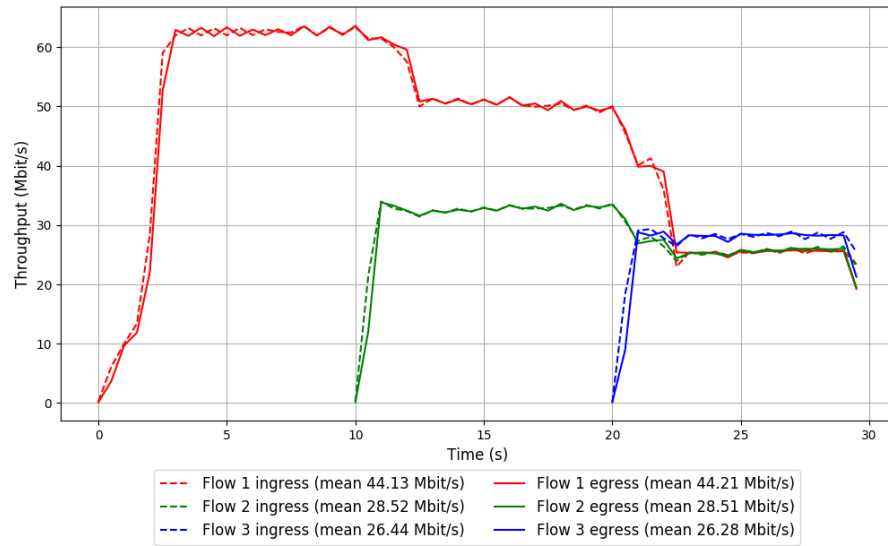
-- Flow 3:

Average throughput: 26.28 Mbit/s

95th percentile per-packet one-way delay: 162.249 ms

Loss rate: 2.64%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

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

End at: Mon, 10 Jul 2017 01:12:03 +0000

Local clock offset: -0.407 ms

Remote clock offset: -1.873 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.39 Mbit/s

95th percentile per-packet one-way delay: 144.827 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 38.56 Mbit/s

95th percentile per-packet one-way delay: 143.818 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 145.529 ms

Loss rate: 0.96%

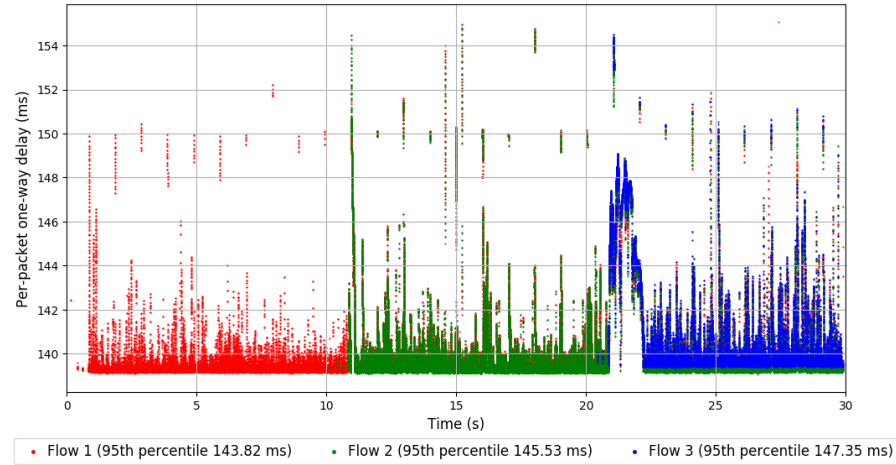
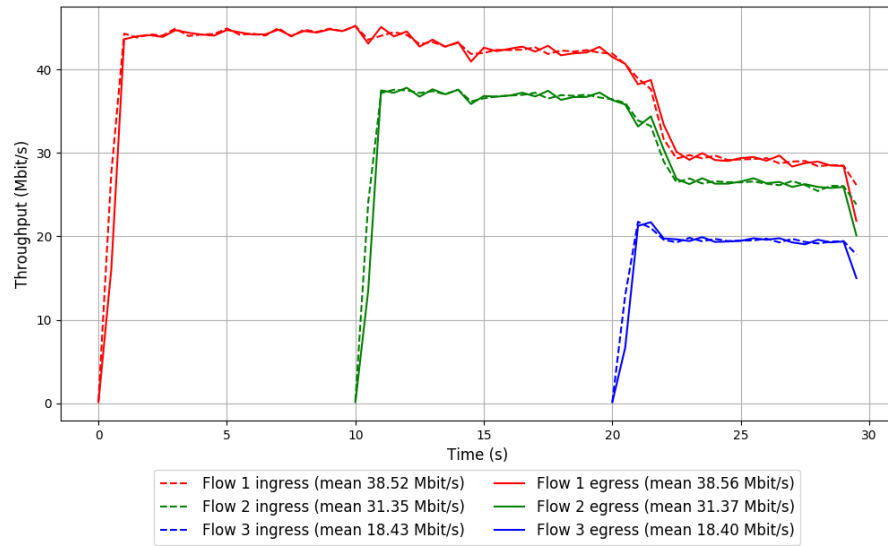
-- Flow 3:

Average throughput: 18.40 Mbit/s

95th percentile per-packet one-way delay: 147.348 ms

Loss rate: 2.31%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Mon, 10 Jul 2017 01:31:33 +0000

End at: Mon, 10 Jul 2017 01:32:03 +0000

Local clock offset: -0.59 ms

Remote clock offset: -1.096 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.82 Mbit/s

95th percentile per-packet one-way delay: 162.875 ms

Loss rate: 17.34%

-- Flow 1:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 143.167 ms

Loss rate: 4.44%

-- Flow 2:

Average throughput: 19.92 Mbit/s

95th percentile per-packet one-way delay: 168.162 ms

Loss rate: 33.17%

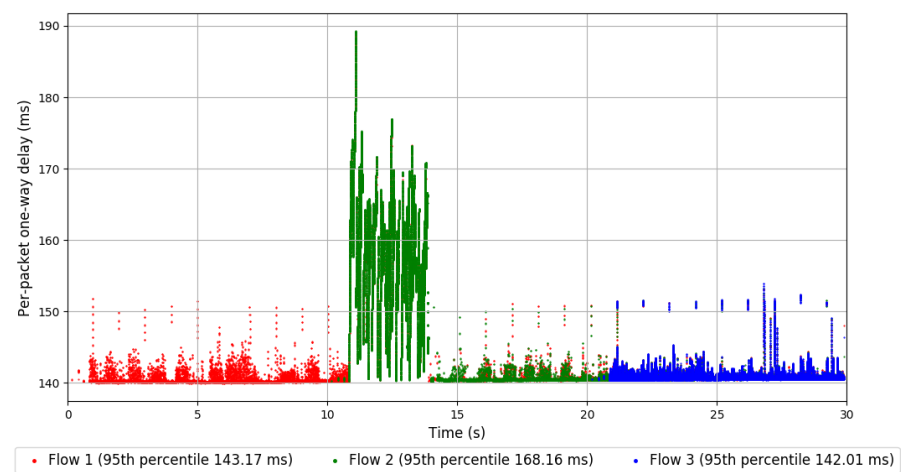
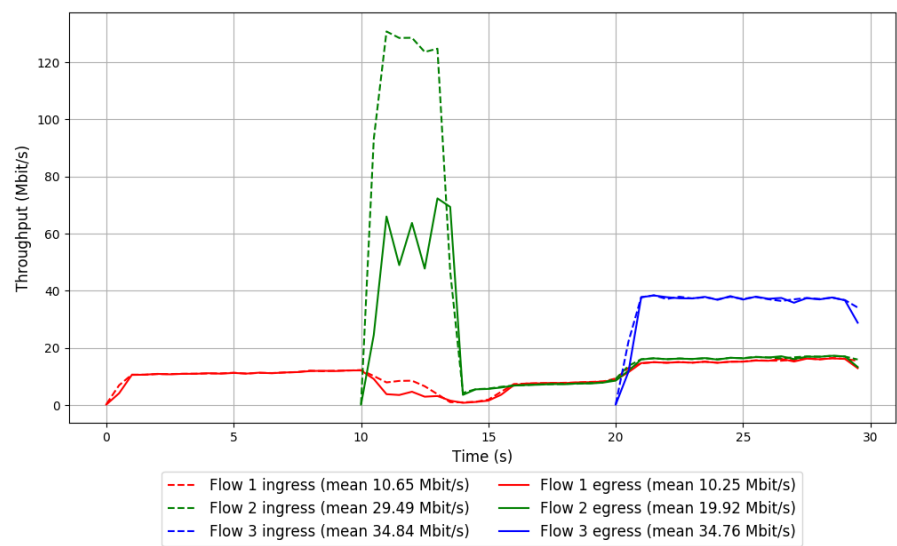
-- Flow 3:

Average throughput: 34.76 Mbit/s

95th percentile per-packet one-way delay: 142.010 ms

Loss rate: 2.33%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: Mon, 10 Jul 2017 01:51:29 +0000

End at: Mon, 10 Jul 2017 01:51:59 +0000

Local clock offset: 0.23 ms

Remote clock offset: -0.034 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:03:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 149.581 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 149.191 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 24.78 Mbit/s

95th percentile per-packet one-way delay: 150.718 ms

Loss rate: 1.12%

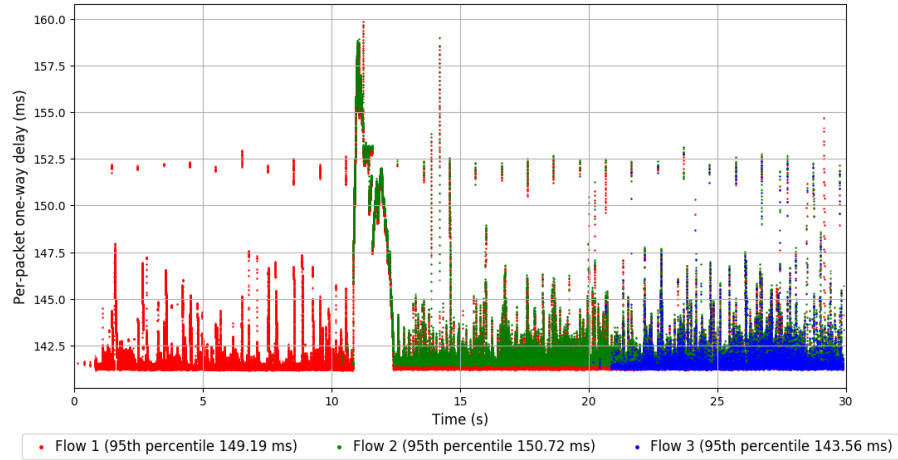
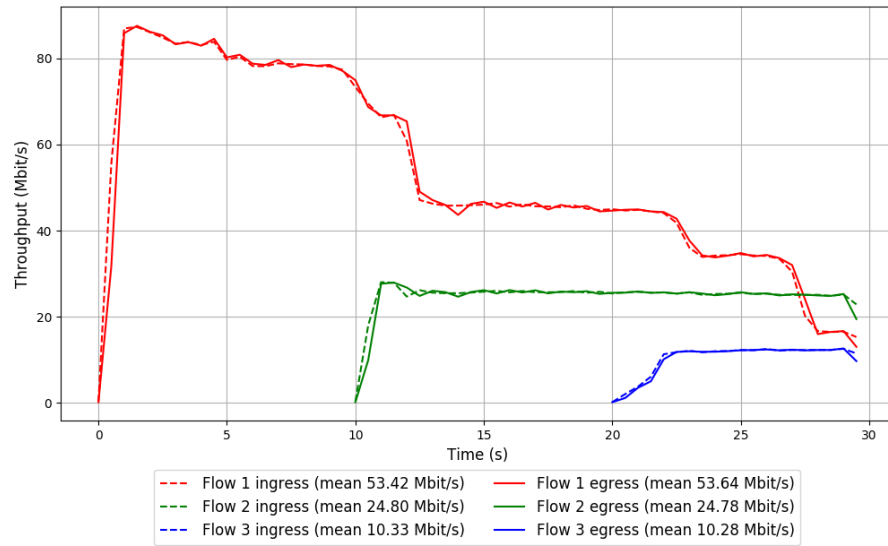
-- Flow 3:

Average throughput: 10.28 Mbit/s

95th percentile per-packet one-way delay: 143.565 ms

Loss rate: 2.58%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Mon, 10 Jul 2017 02:11:24 +0000

End at: Mon, 10 Jul 2017 02:11:54 +0000

Local clock offset: -0.832 ms

Remote clock offset: 4.794 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.89 Mbit/s

95th percentile per-packet one-way delay: 151.766 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 147.392 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 25.38 Mbit/s

95th percentile per-packet one-way delay: 151.911 ms

Loss rate: 1.03%

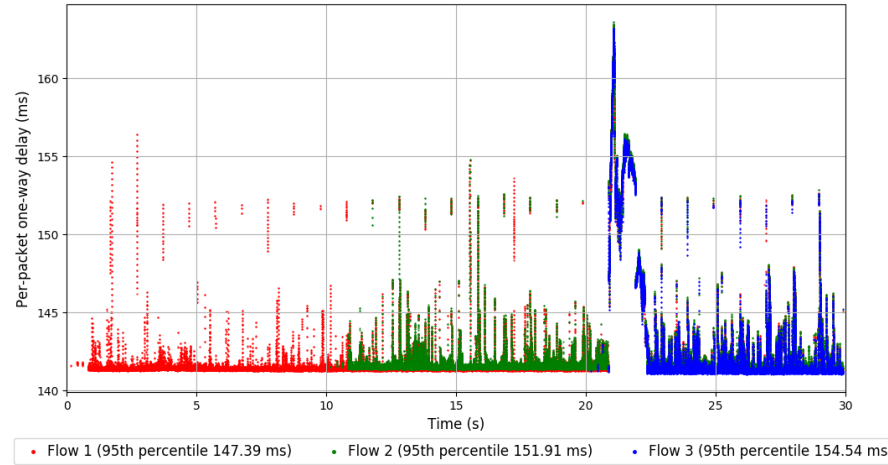
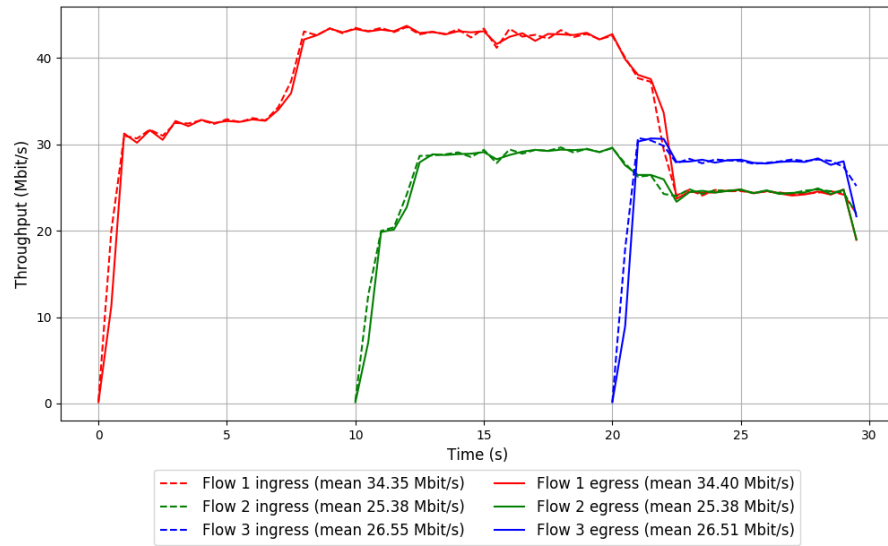
-- Flow 3:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 154.539 ms

Loss rate: 2.25%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Mon, 10 Jul 2017 02:31:10 +0000

End at: Mon, 10 Jul 2017 02:31:40 +0000

Local clock offset: -0.989 ms

Remote clock offset: -0.242 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 143.162 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 46.76 Mbit/s

95th percentile per-packet one-way delay: 142.914 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 143.461 ms

Loss rate: 1.24%

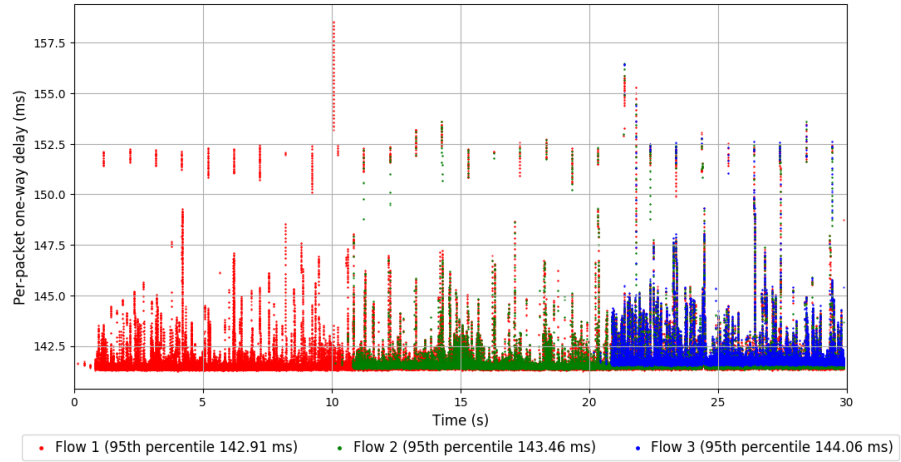
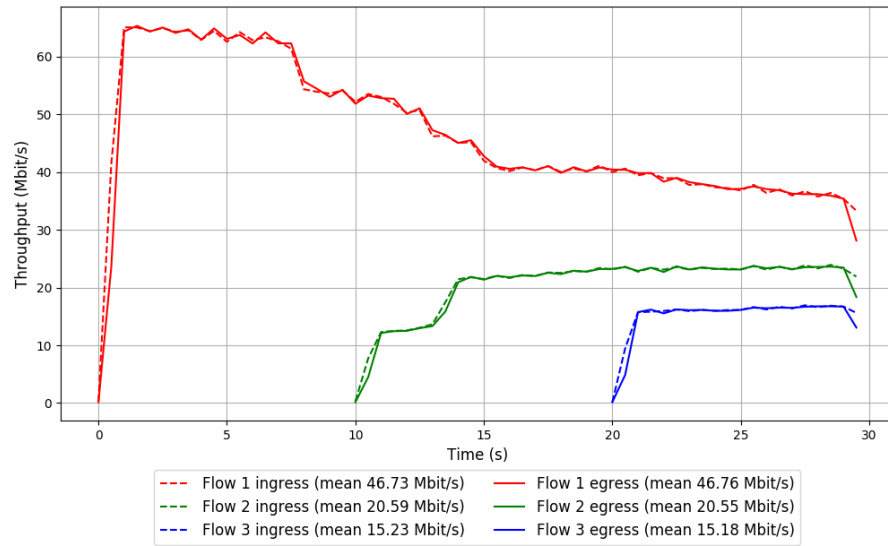
-- Flow 3:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 144.055 ms

Loss rate: 2.42%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: Sun, 09 Jul 2017 23:24:55 +0000

End at: Sun, 09 Jul 2017 23:25:25 +0000

Local clock offset: 0.671 ms

Remote clock offset: -1.228 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.53 Mbit/s

95th percentile per-packet one-way delay: 177.811 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 176.480 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 177.934 ms

Loss rate: 1.19%

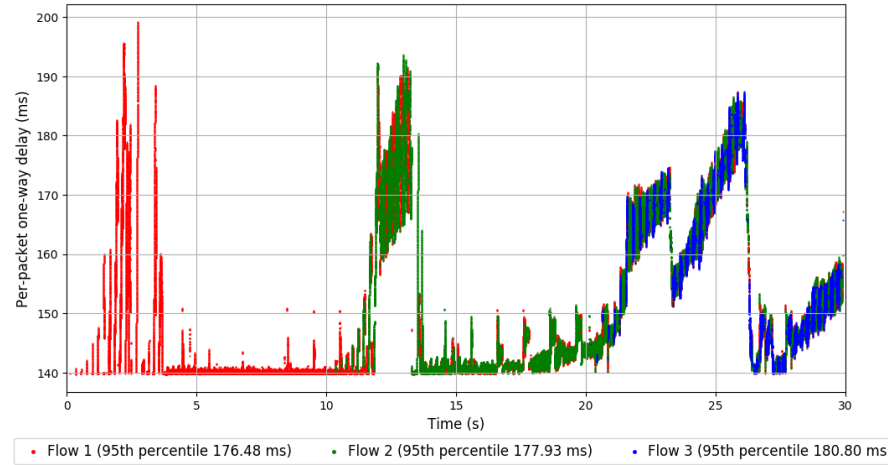
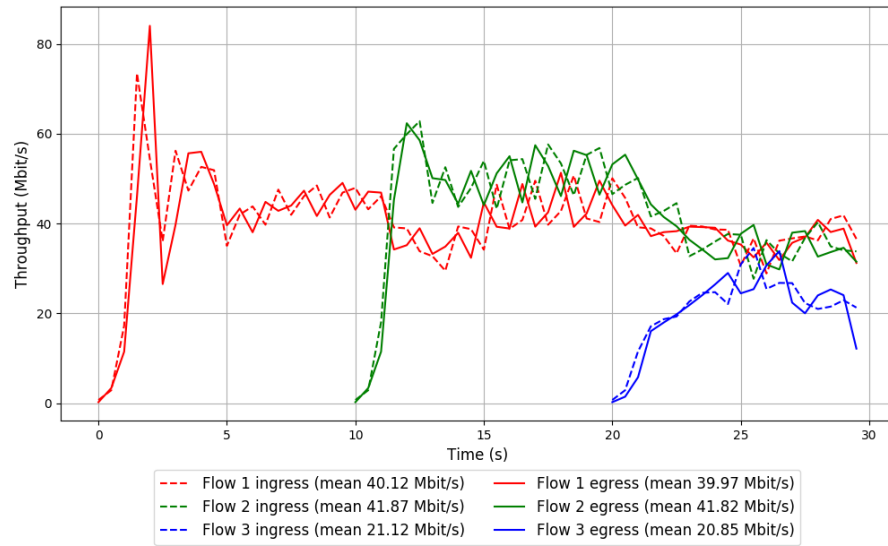
-- Flow 3:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 180.803 ms

Loss rate: 3.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Sun, 09 Jul 2017 23:44:50 +0000

End at: Sun, 09 Jul 2017 23:45:20 +0000

Local clock offset: 0.8 ms

Remote clock offset: -0.694 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.64 Mbit/s

95th percentile per-packet one-way delay: 180.245 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 177.684 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 41.69 Mbit/s

95th percentile per-packet one-way delay: 180.111 ms

Loss rate: 1.33%

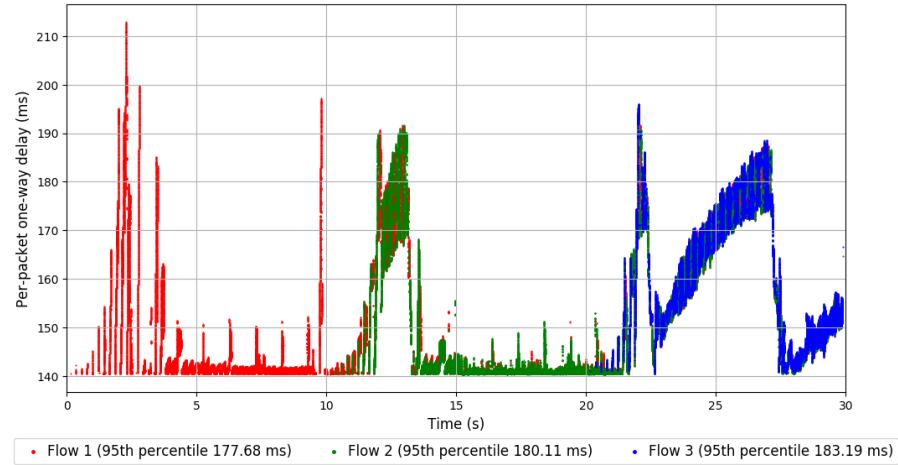
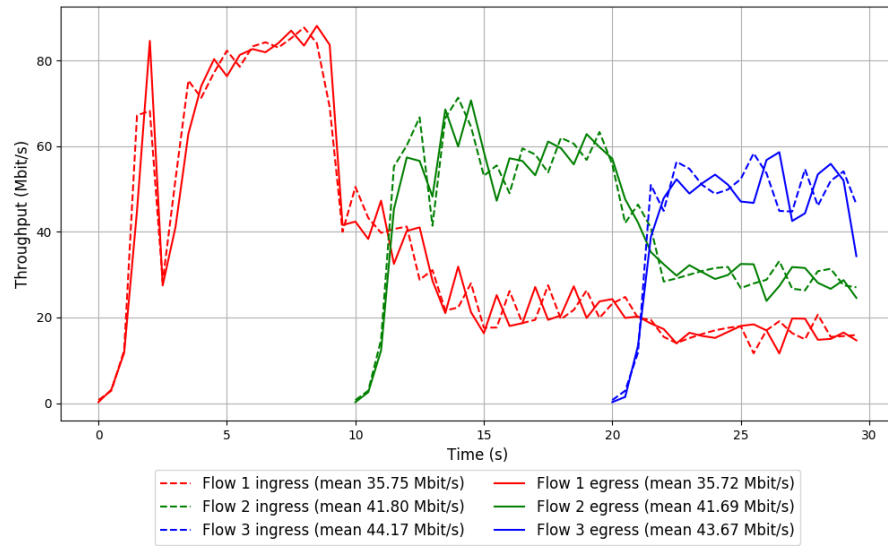
-- Flow 3:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 183.195 ms

Loss rate: 3.28%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 00:04:48 +0000

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

Local clock offset: 0.847 ms

Remote clock offset: -1.864 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 168.909 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 46.30 Mbit/s

95th percentile per-packet one-way delay: 168.871 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 168.675 ms

Loss rate: 1.37%

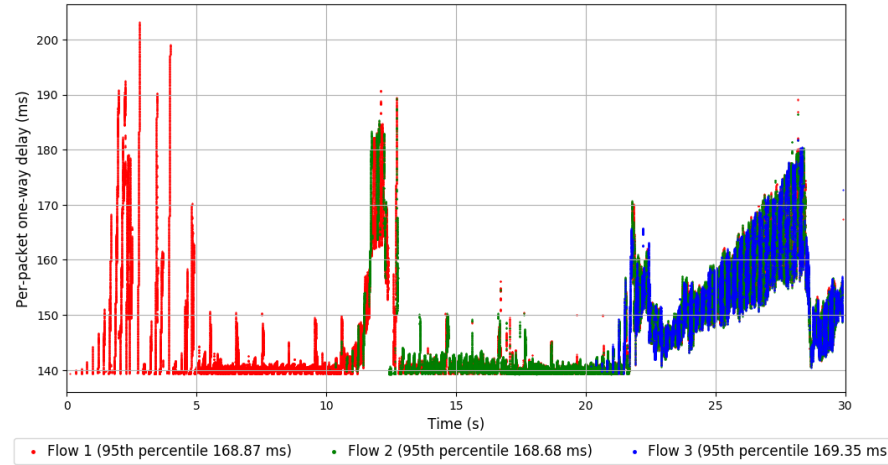
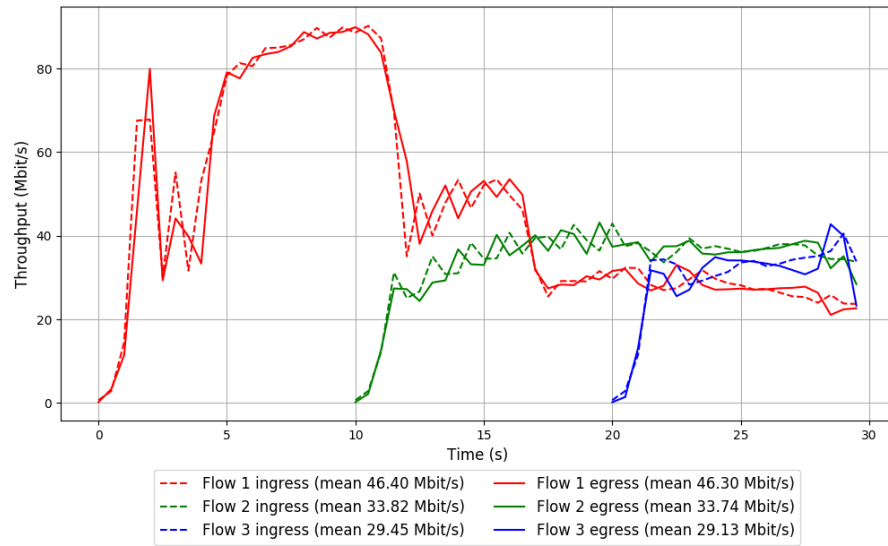
-- Flow 3:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 169.347 ms

Loss rate: 3.15%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 00:24:42 +0000

End at: Mon, 10 Jul 2017 00:25:12 +0000

Local clock offset: -0.493 ms

Remote clock offset: -2.201 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 168.818 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 170.898 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 165.247 ms

Loss rate: 1.16%

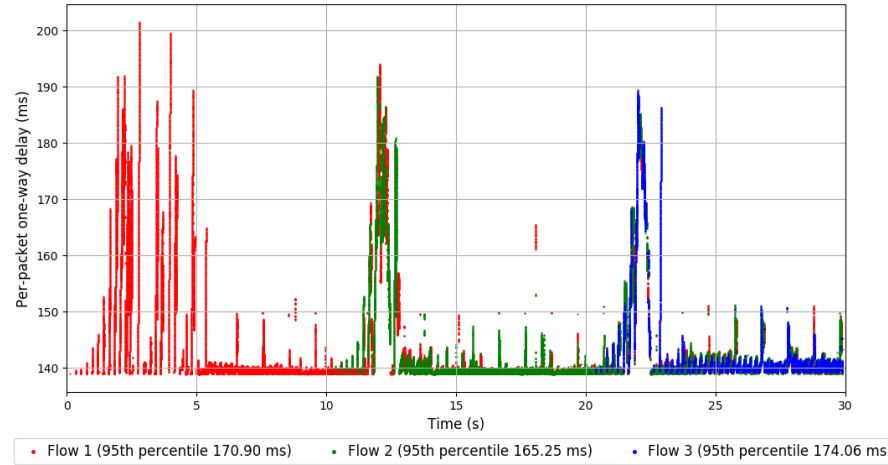
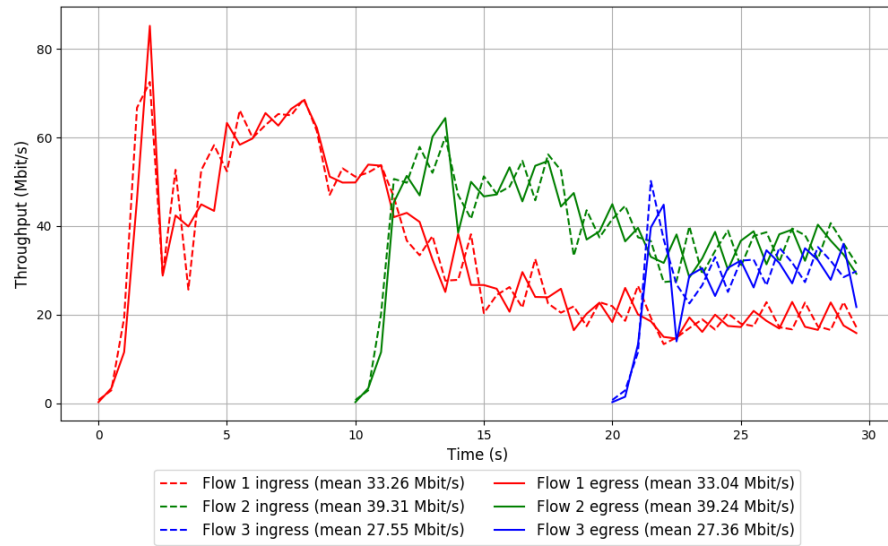
-- Flow 3:

Average throughput: 27.36 Mbit/s

95th percentile per-packet one-way delay: 174.058 ms

Loss rate: 2.82%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 00:44:57 +0000

End at: Mon, 10 Jul 2017 00:45:27 +0000

Local clock offset: -0.647 ms

Remote clock offset: -2.303 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.69 Mbit/s

95th percentile per-packet one-way delay: 174.153 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 29.00 Mbit/s

95th percentile per-packet one-way delay: 172.823 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 33.54 Mbit/s

95th percentile per-packet one-way delay: 174.987 ms

Loss rate: 2.01%

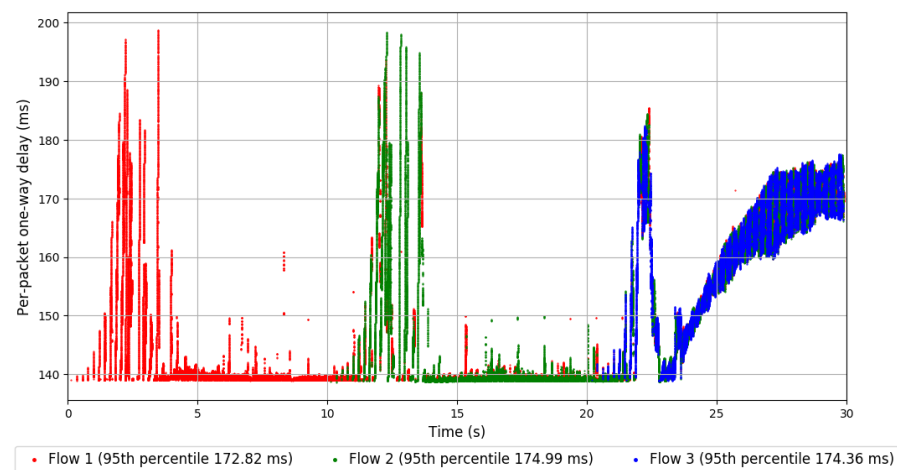
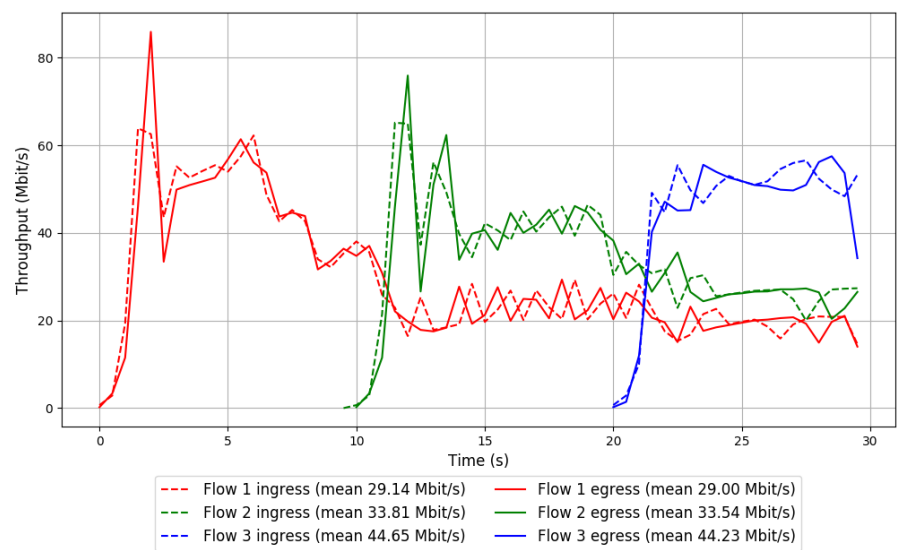
-- Flow 3:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 174.357 ms

Loss rate: 3.36%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 01:04:48 +0000

End at: Mon, 10 Jul 2017 01:05:18 +0000

Local clock offset: -0.612 ms

Remote clock offset: -2.009 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 165.045 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 24.08 Mbit/s

95th percentile per-packet one-way delay: 169.070 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 162.650 ms

Loss rate: 1.57%

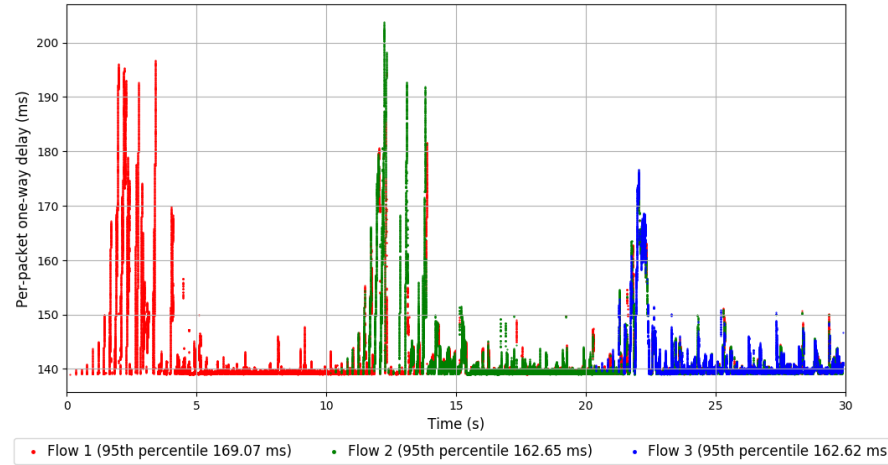
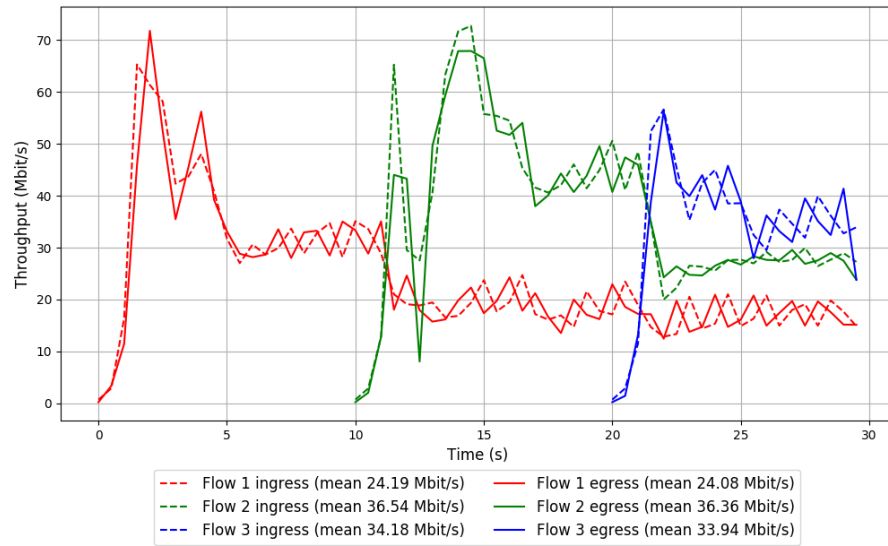
-- Flow 3:

Average throughput: 33.94 Mbit/s

95th percentile per-packet one-way delay: 162.624 ms

Loss rate: 2.77%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 01:24:50 +0000

End at: Mon, 10 Jul 2017 01:25:20 +0000

Local clock offset: -0.445 ms

Remote clock offset: -1.674 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.05 Mbit/s

95th percentile per-packet one-way delay: 175.116 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 174.614 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 178.560 ms

Loss rate: 1.09%

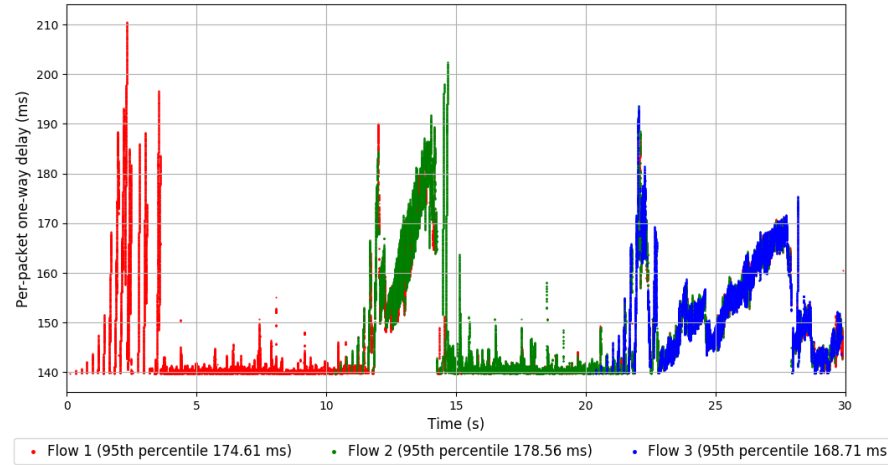
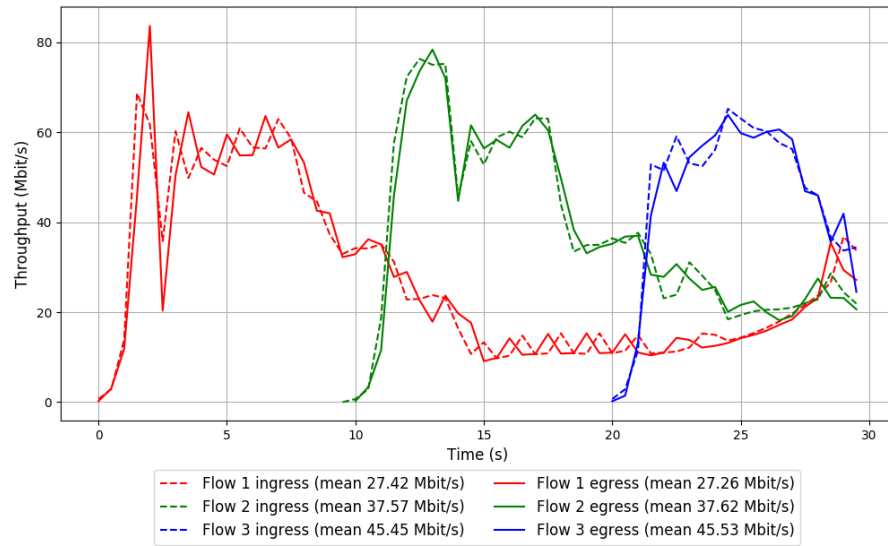
-- Flow 3:

Average throughput: 45.53 Mbit/s

95th percentile per-packet one-way delay: 168.706 ms

Loss rate: 2.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 01:44:46 +0000

End at: Mon, 10 Jul 2017 01:45:16 +0000

Local clock offset: -0.887 ms

Remote clock offset: -0.135 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.12 Mbit/s

95th percentile per-packet one-way delay: 178.066 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 24.99 Mbit/s

95th percentile per-packet one-way delay: 177.730 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 177.208 ms

Loss rate: 1.93%

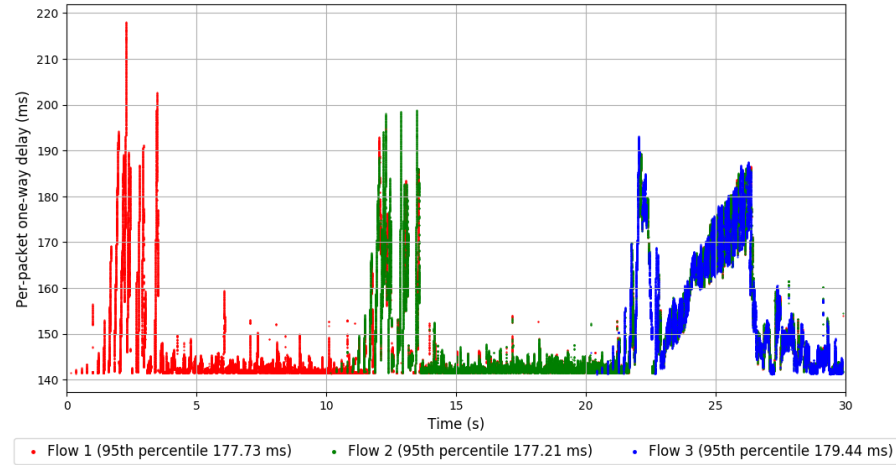
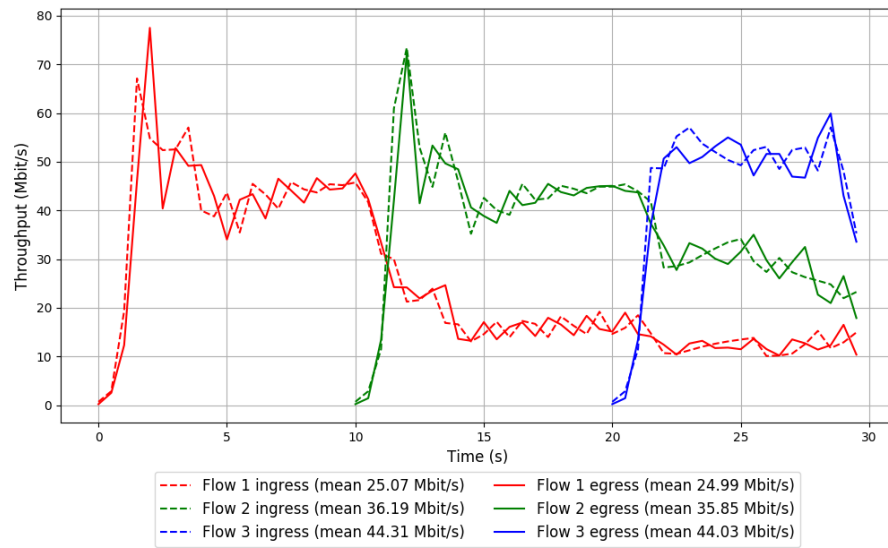
-- Flow 3:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 179.444 ms

Loss rate: 2.77%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: Mon, 10 Jul 2017 02:04:33 +0000

End at: Mon, 10 Jul 2017 02:05:03 +0000

Local clock offset: -0.825 ms

Remote clock offset: -0.297 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 180.298 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 178.618 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 33.62 Mbit/s

95th percentile per-packet one-way delay: 181.622 ms

Loss rate: 1.44%

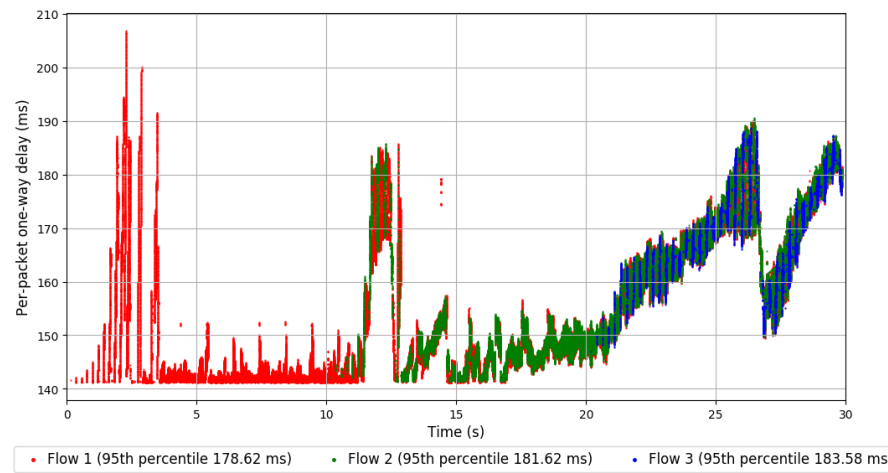
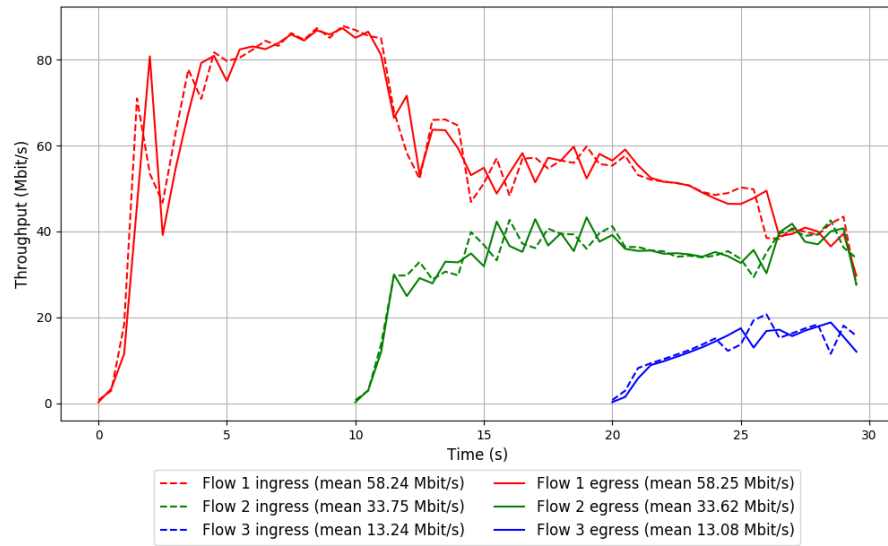
-- Flow 3:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 183.576 ms

Loss rate: 3.52%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

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

End at: Mon, 10 Jul 2017 02:24:56 +0000

Local clock offset: -0.915 ms

Remote clock offset: -0.469 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.60 Mbit/s

95th percentile per-packet one-way delay: 173.473 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 43.58 Mbit/s

95th percentile per-packet one-way delay: 173.266 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 34.14 Mbit/s

95th percentile per-packet one-way delay: 174.260 ms

Loss rate: 1.25%

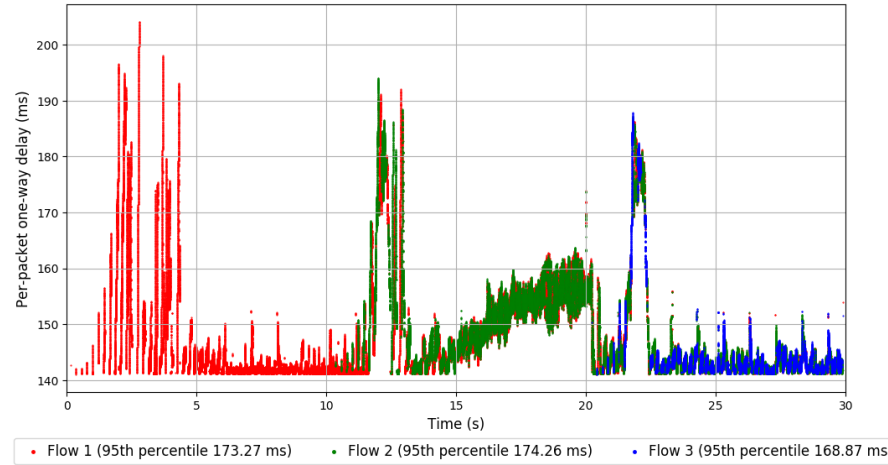
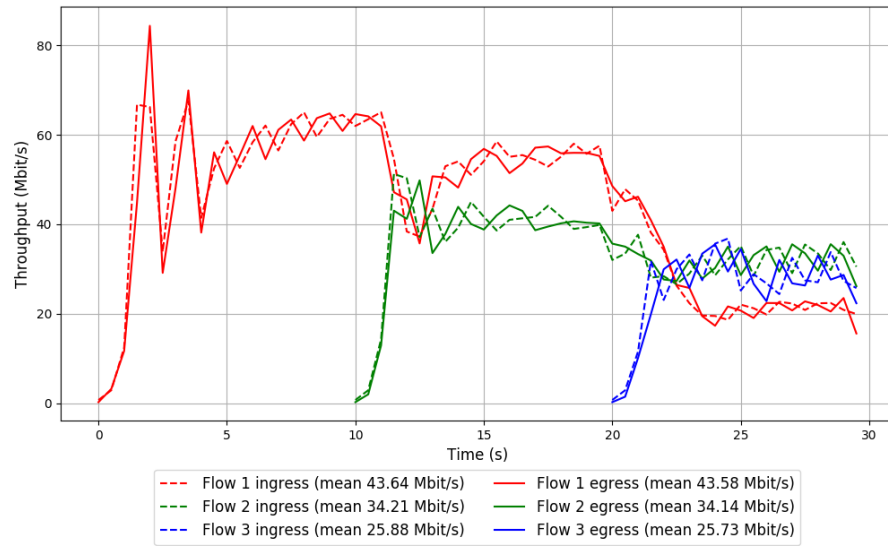
-- Flow 3:

Average throughput: 25.73 Mbit/s

95th percentile per-packet one-way delay: 168.867 ms

Loss rate: 2.65%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Sun, 09 Jul 2017 23:33:12 +0000

End at: Sun, 09 Jul 2017 23:33:42 +0000

Local clock offset: -0.585 ms

Remote clock offset: -0.958 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 141.426 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 141.256 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 141.510 ms

Loss rate: 1.08%

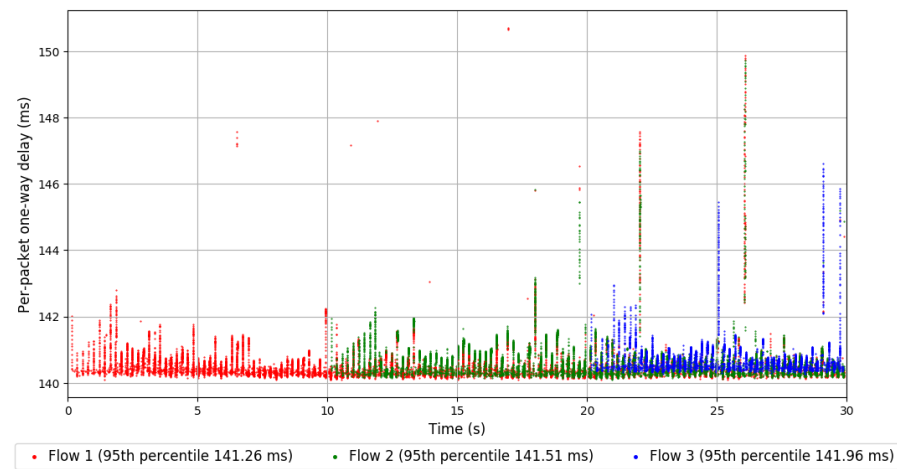
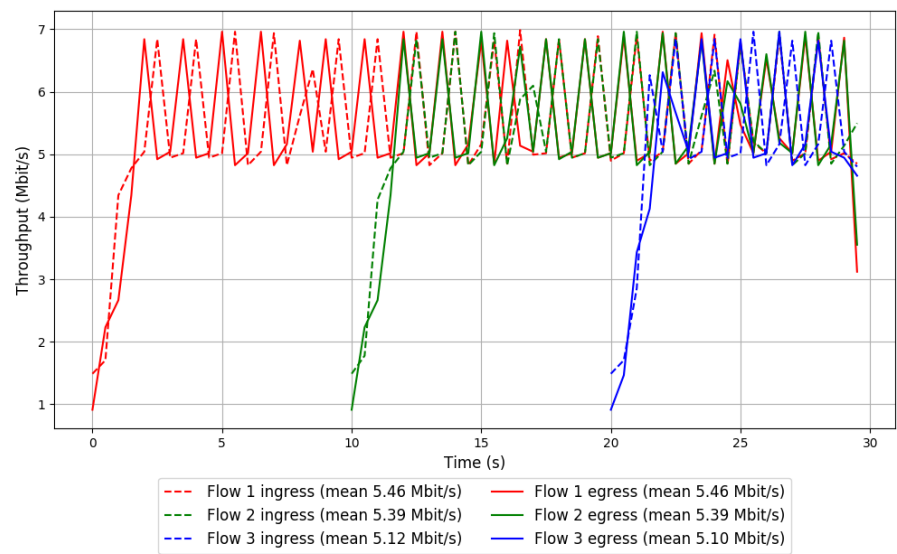
-- Flow 3:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 141.960 ms

Loss rate: 2.37%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Sun, 09 Jul 2017 23:53:07 +0000

End at: Sun, 09 Jul 2017 23:53:37 +0000

Local clock offset: 0.49 ms

Remote clock offset: -1.164 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 141.130 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 141.202 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 141.076 ms

Loss rate: 1.11%

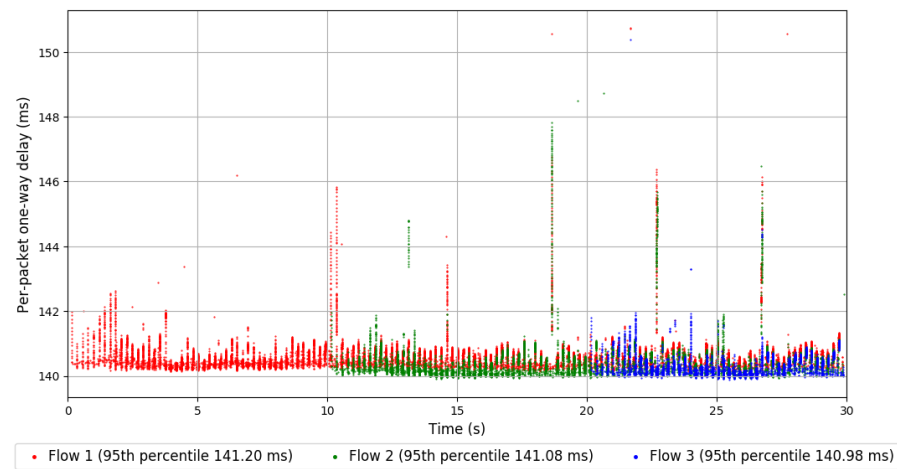
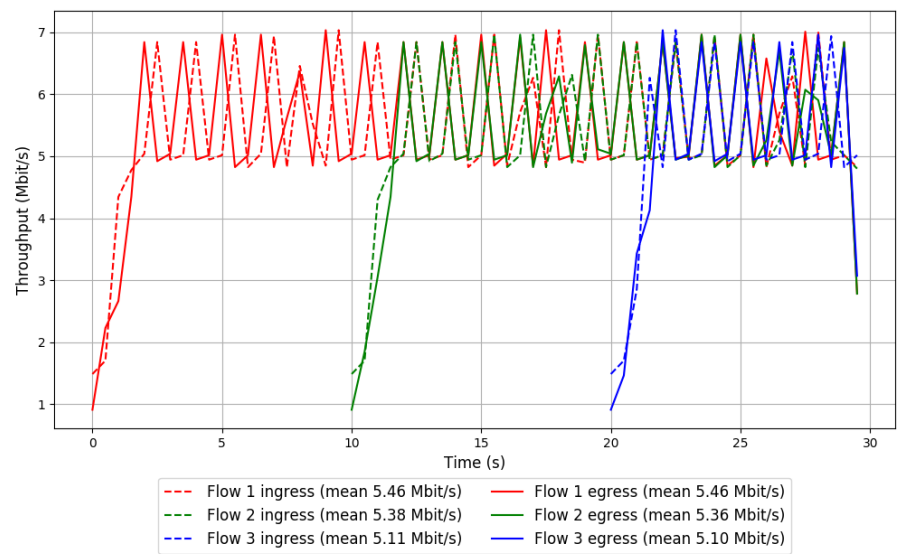
-- Flow 3:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 140.979 ms

Loss rate: 2.37%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 00:13:03 +0000

End at: Mon, 10 Jul 2017 00:13:33 +0000

Local clock offset: 0.573 ms

Remote clock offset: -1.972 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.72 Mbit/s

95th percentile per-packet one-way delay: 140.701 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 140.427 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 140.717 ms

Loss rate: 1.11%

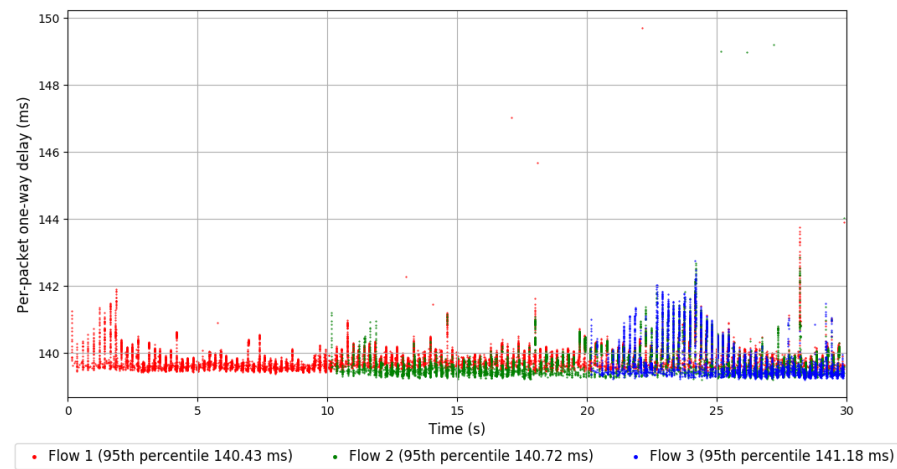
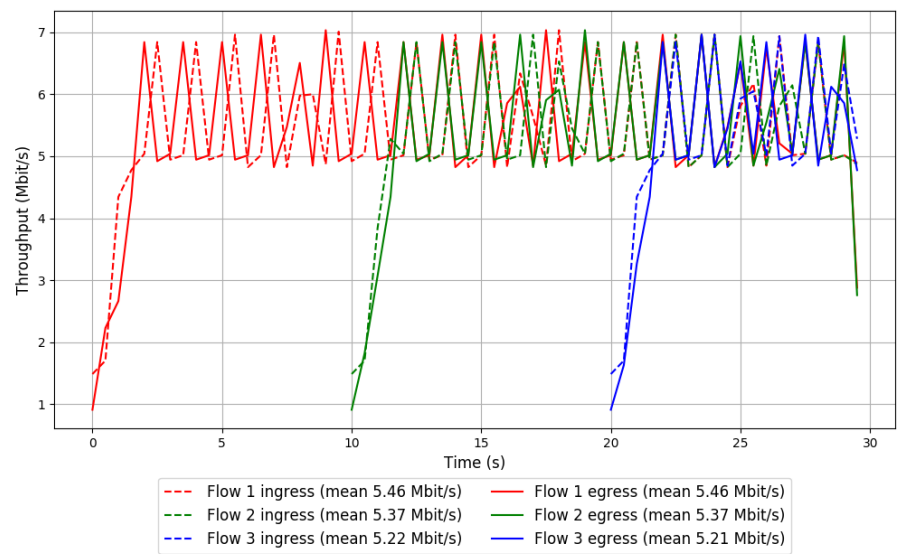
-- Flow 3:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 141.176 ms

Loss rate: 2.32%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

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

End at: Mon, 10 Jul 2017 00:33:40 +0000

Local clock offset: 0.477 ms

Remote clock offset: -2.274 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 140.089 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 139.912 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 5.43 Mbit/s

95th percentile per-packet one-way delay: 140.273 ms

Loss rate: 1.11%

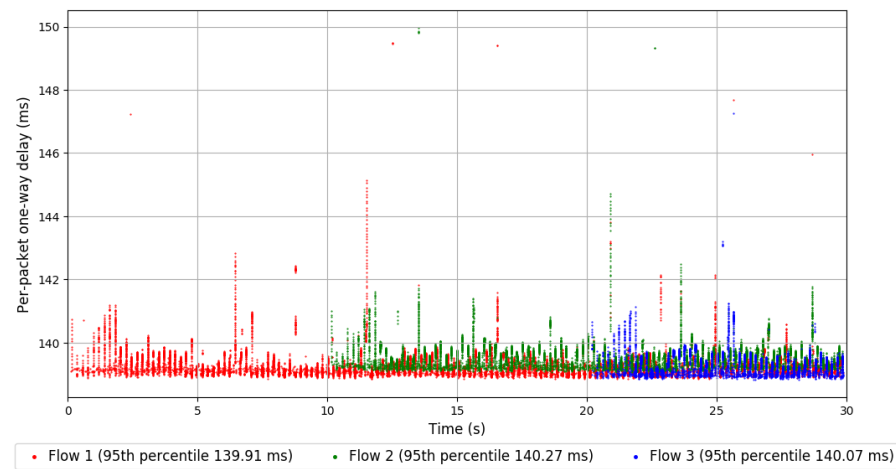
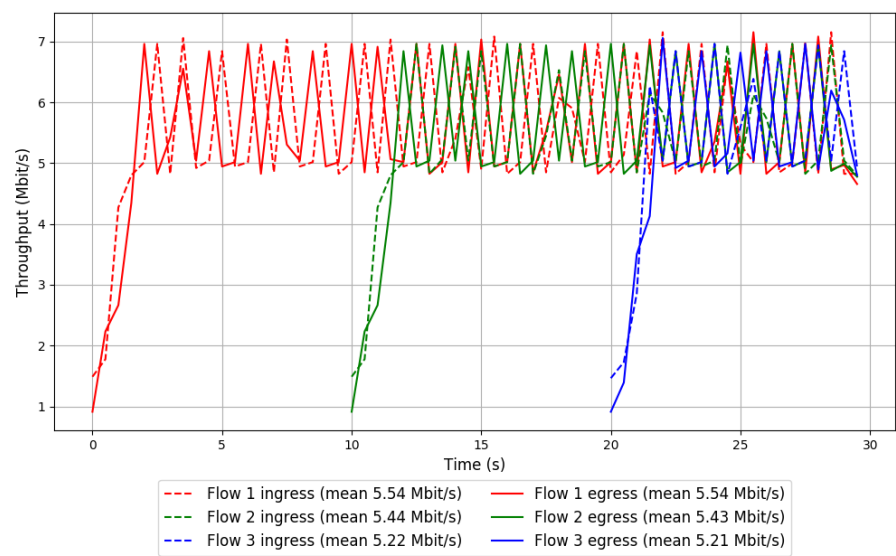
-- Flow 3:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 140.072 ms

Loss rate: 2.32%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 00:53:08 +0000

End at: Mon, 10 Jul 2017 00:53:38 +0000

Local clock offset: -0.462 ms

Remote clock offset: -2.164 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 140.128 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 4.89 Mbit/s

95th percentile per-packet one-way delay: 139.981 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 140.118 ms

Loss rate: 1.31%

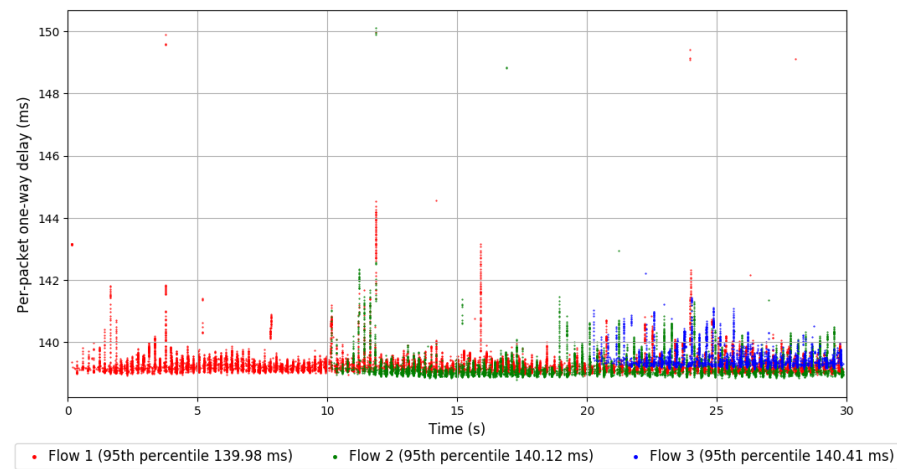
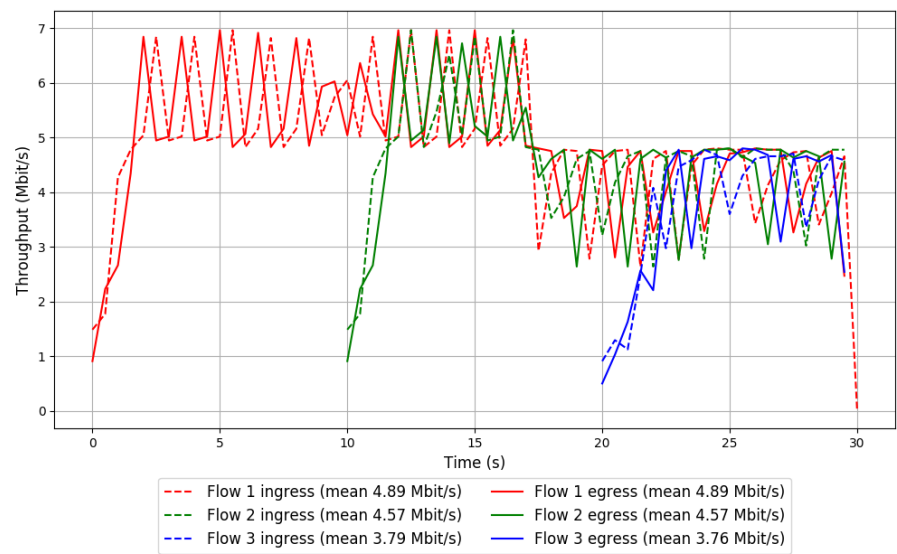
-- Flow 3:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 140.407 ms

Loss rate: 3.21%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 01:12:58 +0000

End at: Mon, 10 Jul 2017 01:13:28 +0000

Local clock offset: -0.472 ms

Remote clock offset: -1.802 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.77 Mbit/s

95th percentile per-packet one-way delay: 141.185 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 141.204 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 5.44 Mbit/s

95th percentile per-packet one-way delay: 141.004 ms

Loss rate: 1.11%

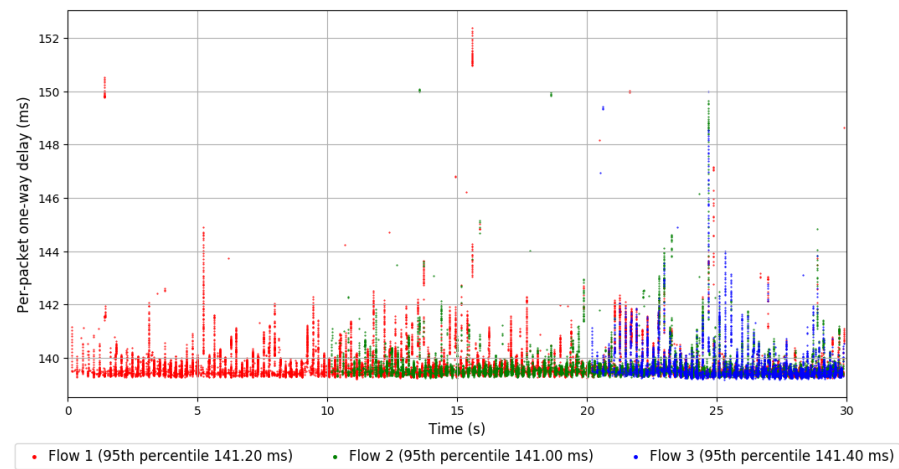
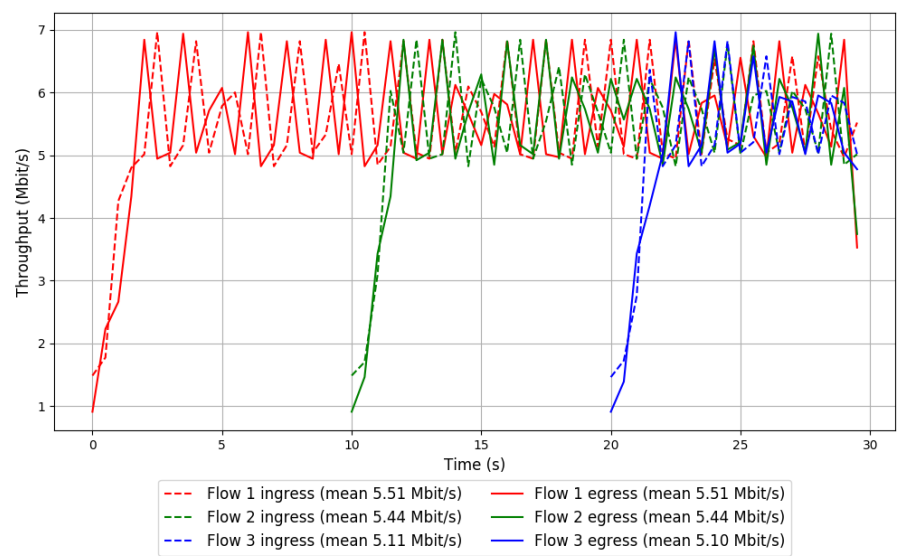
-- Flow 3:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 141.404 ms

Loss rate: 2.37%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 01:32:58 +0000

End at: Mon, 10 Jul 2017 01:33:28 +0000

Local clock offset: 0.842 ms

Remote clock offset: -0.209 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:04:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.67 Mbit/s

95th percentile per-packet one-way delay: 143.091 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 142.843 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 143.189 ms

Loss rate: 1.12%

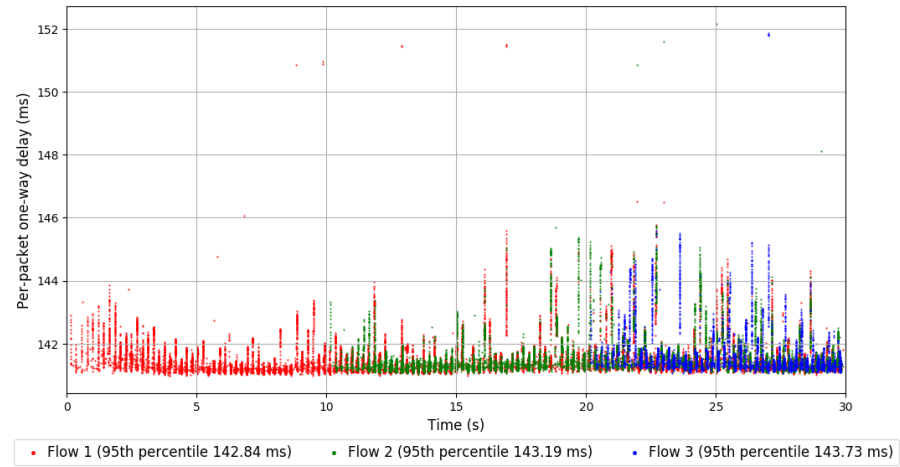
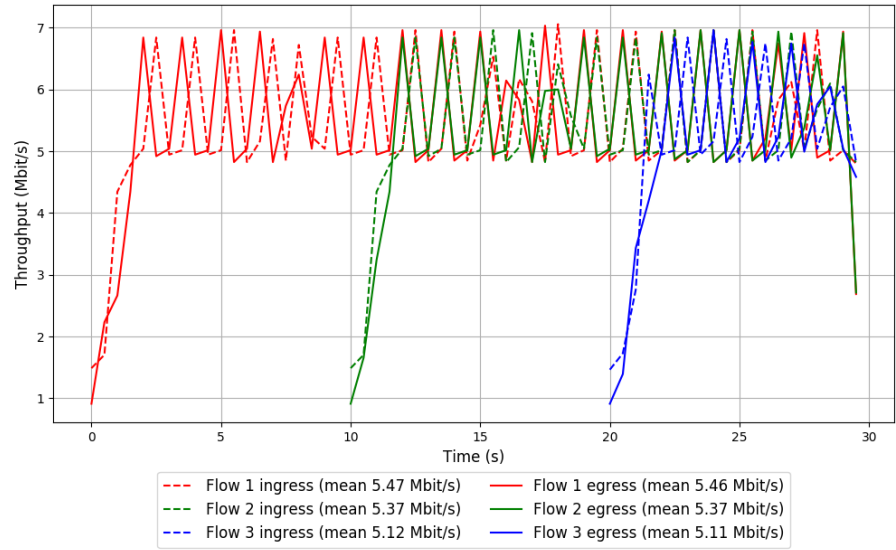
-- Flow 3:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 143.726 ms

Loss rate: 2.37%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 01:52:55 +0000

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

Local clock offset: 0.299 ms

Remote clock offset: -0.026 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.79 Mbit/s

95th percentile per-packet one-way delay: 142.994 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 5.53 Mbit/s

95th percentile per-packet one-way delay: 142.879 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 143.136 ms

Loss rate: 1.12%

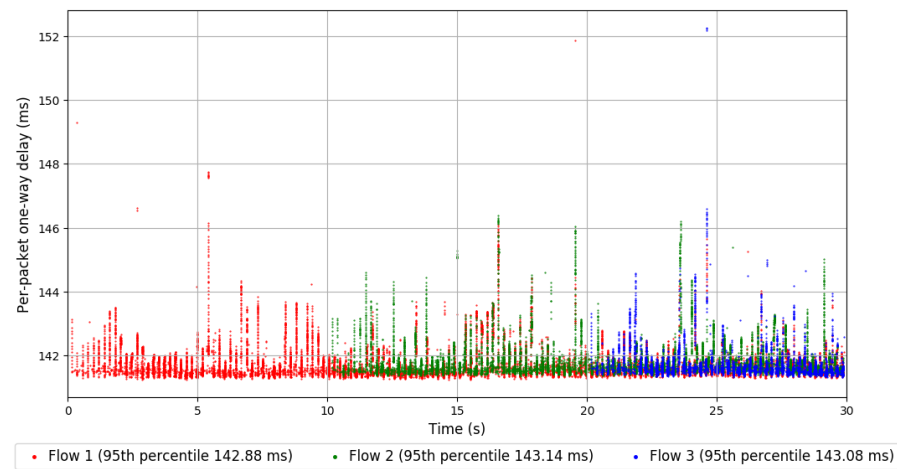
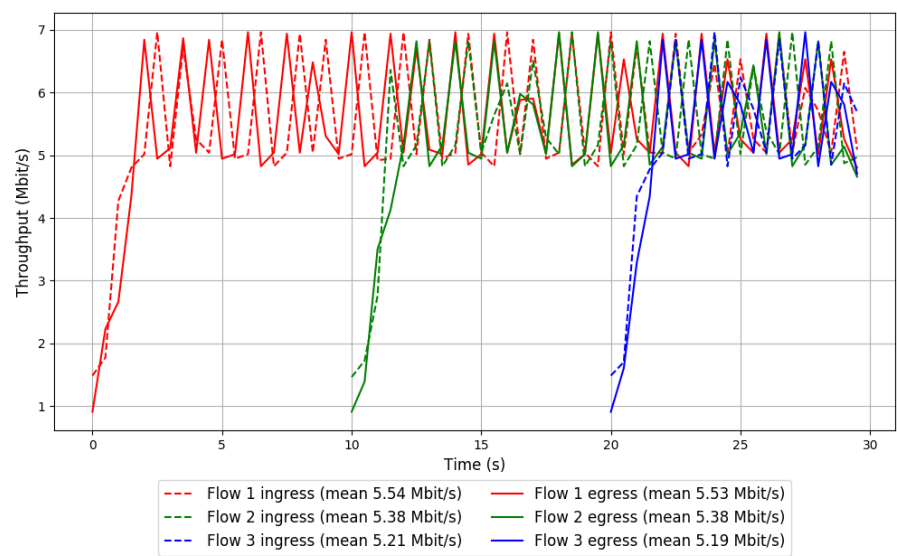
-- Flow 3:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 143.082 ms

Loss rate: 2.30%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 02:12:47 +0000

End at: Mon, 10 Jul 2017 02:13:17 +0000

Local clock offset: -0.895 ms

Remote clock offset: -0.344 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 142.573 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 142.554 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 142.563 ms

Loss rate: 1.12%

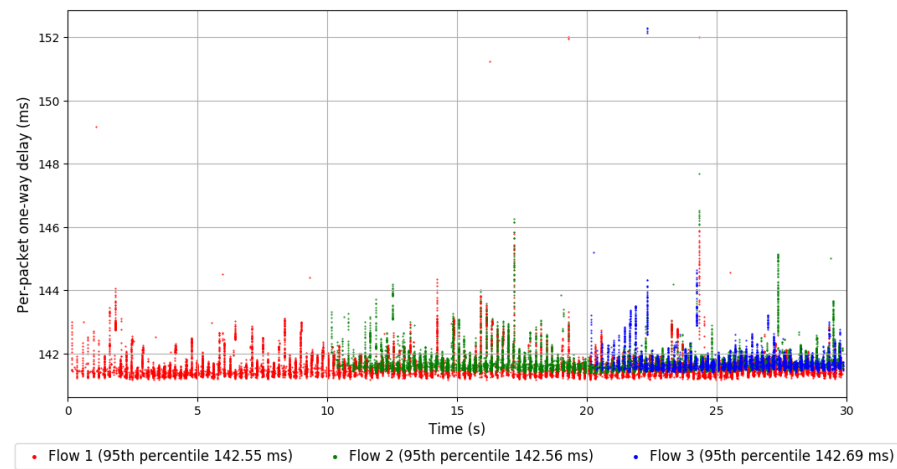
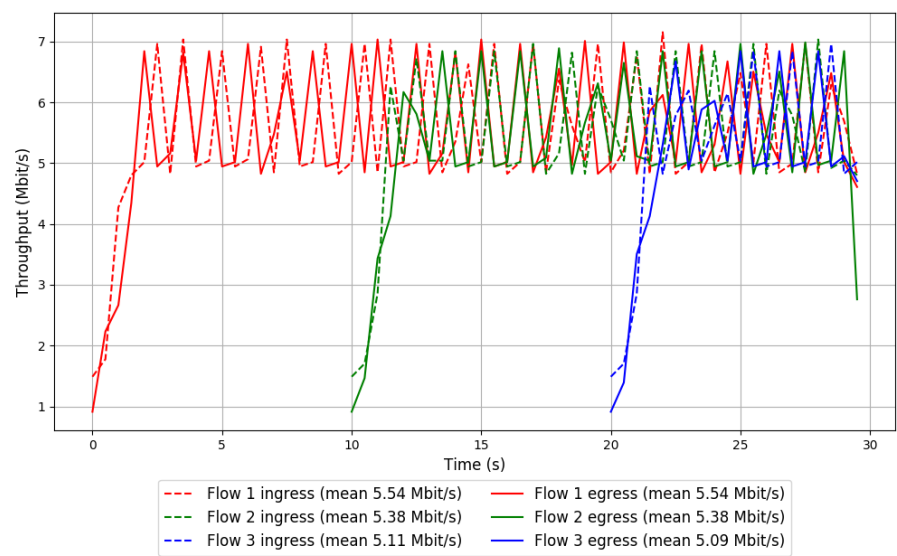
-- Flow 3:

Average throughput: 5.09 Mbit/s

95th percentile per-packet one-way delay: 142.694 ms

Loss rate: 2.37%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: Mon, 10 Jul 2017 02:32:40 +0000

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

Local clock offset: -1.189 ms

Remote clock offset: -0.194 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 142.887 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 142.709 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 5.43 Mbit/s

95th percentile per-packet one-way delay: 142.948 ms

Loss rate: 1.11%

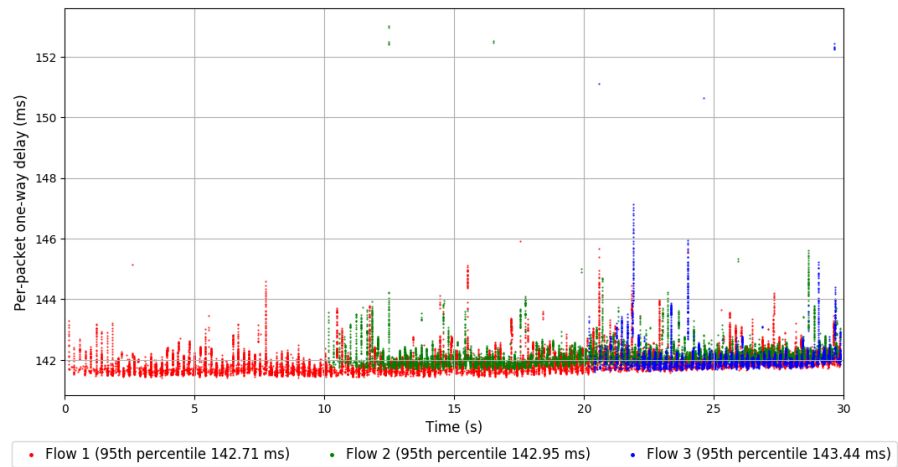
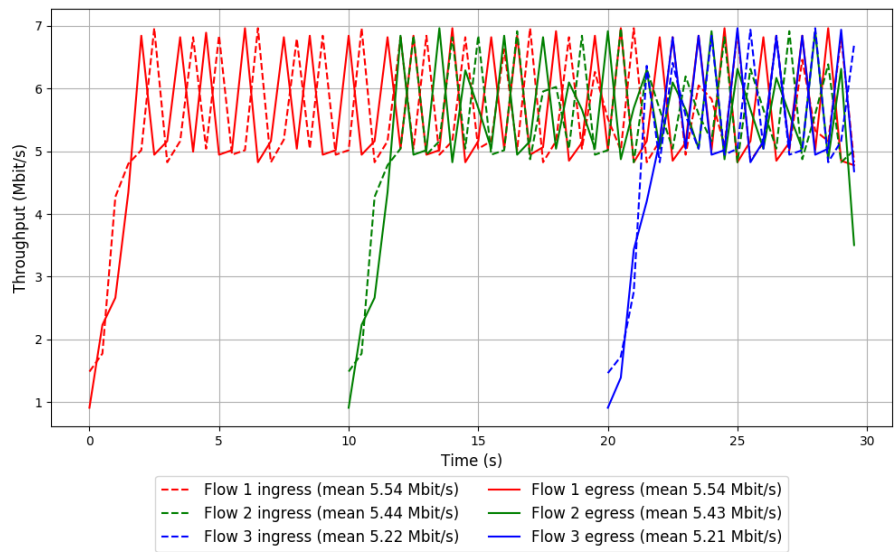
-- Flow 3:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 143.441 ms

Loss rate: 2.32%

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Sun, 09 Jul 2017 23:17:13 +0000

End at: Sun, 09 Jul 2017 23:17:43 +0000

Local clock offset: 0.607 ms

Remote clock offset: -1.332 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.14 Mbit/s

95th percentile per-packet one-way delay: 141.282 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 141.413 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 5.17 Mbit/s

95th percentile per-packet one-way delay: 140.929 ms

Loss rate: 2.14%

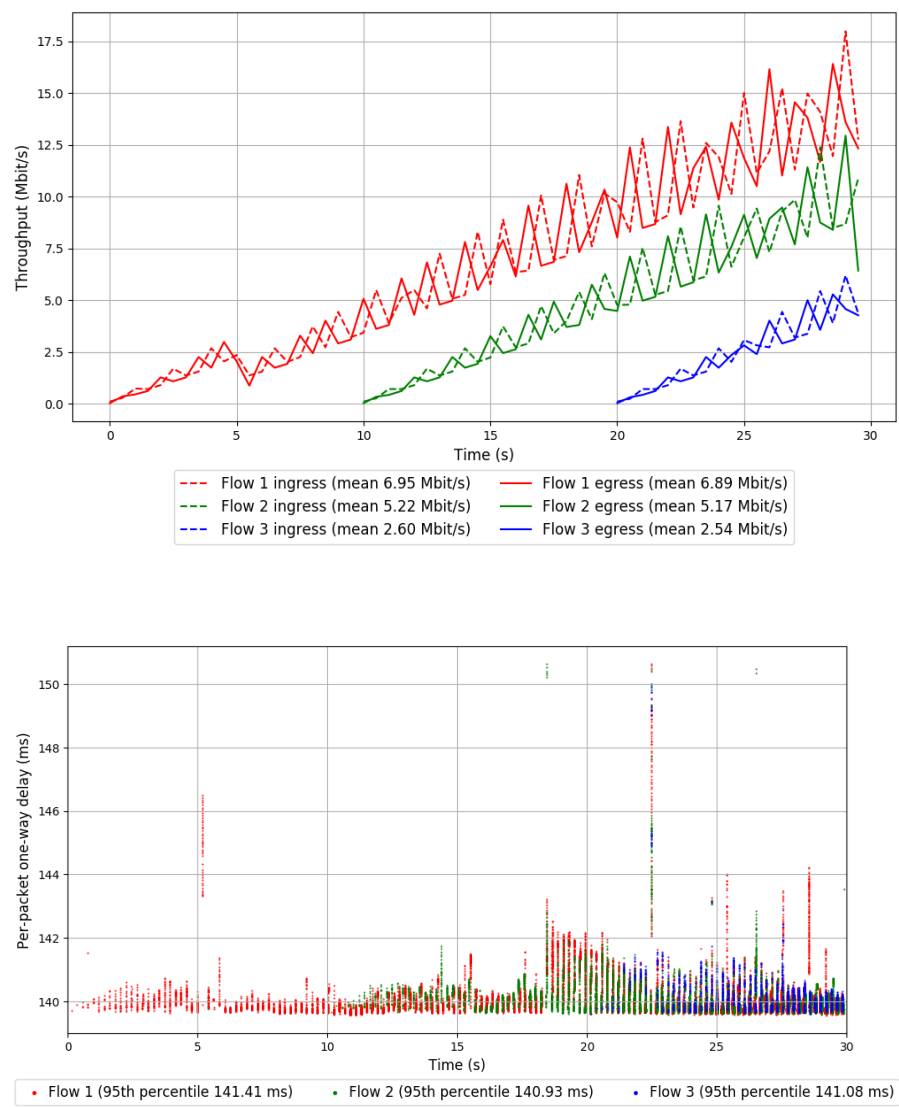
-- Flow 3:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 141.082 ms

Loss rate: 4.29%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Sun, 09 Jul 2017 23:37:08 +0000

End at: Sun, 09 Jul 2017 23:37:38 +0000

Local clock offset: -0.438 ms

Remote clock offset: -0.881 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 142.679 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 142.733 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 142.090 ms

Loss rate: 2.17%

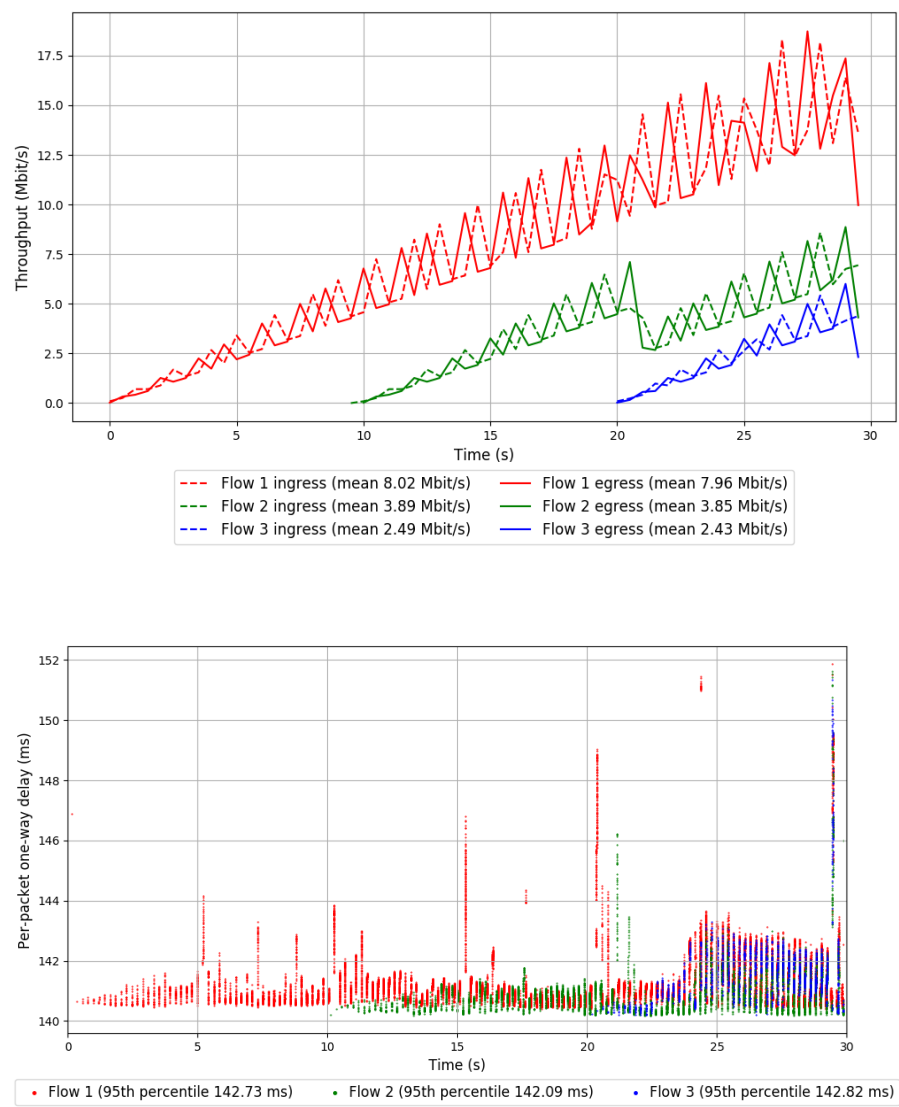
-- Flow 3:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 142.816 ms

Loss rate: 4.38%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Sun, 09 Jul 2017 23:57:05 +0000

End at: Sun, 09 Jul 2017 23:57:35 +0000

Local clock offset: 0.414 ms

Remote clock offset: -1.441 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:06 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.96 Mbit/s

95th percentile per-packet one-way delay: 140.949 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 140.981 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 140.980 ms

Loss rate: 2.13%

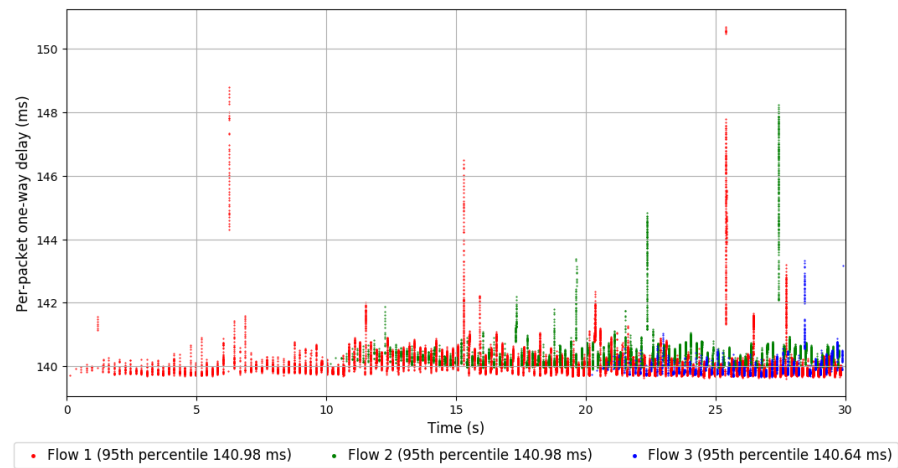
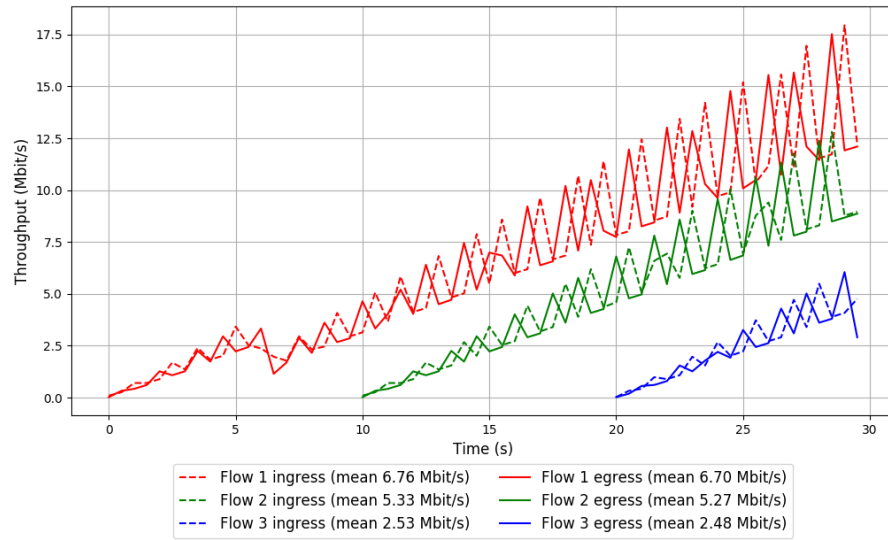
-- Flow 3:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 140.642 ms

Loss rate: 3.72%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 00:16:59 +0000

End at: Mon, 10 Jul 2017 00:17:29 +0000

Local clock offset: -0.688 ms

Remote clock offset: -2.025 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 140.330 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 140.452 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 4.73 Mbit/s

95th percentile per-packet one-way delay: 140.353 ms

Loss rate: 1.33%

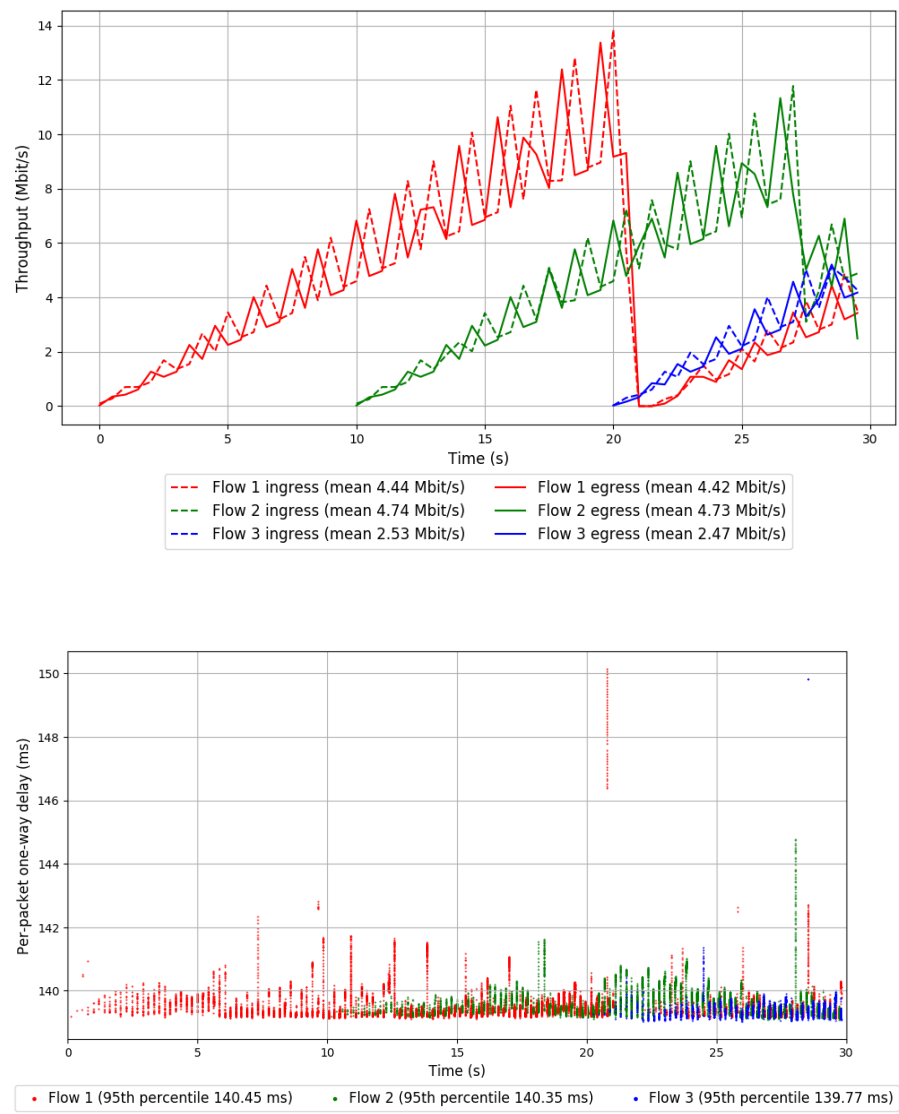
-- Flow 3:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 139.771 ms

Loss rate: 4.37%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 00:37:05 +0000

End at: Mon, 10 Jul 2017 00:37:35 +0000

Local clock offset: -0.473 ms

Remote clock offset: -2.273 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 140.818 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 140.902 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 5.13 Mbit/s

95th percentile per-packet one-way delay: 140.408 ms

Loss rate: 2.11%

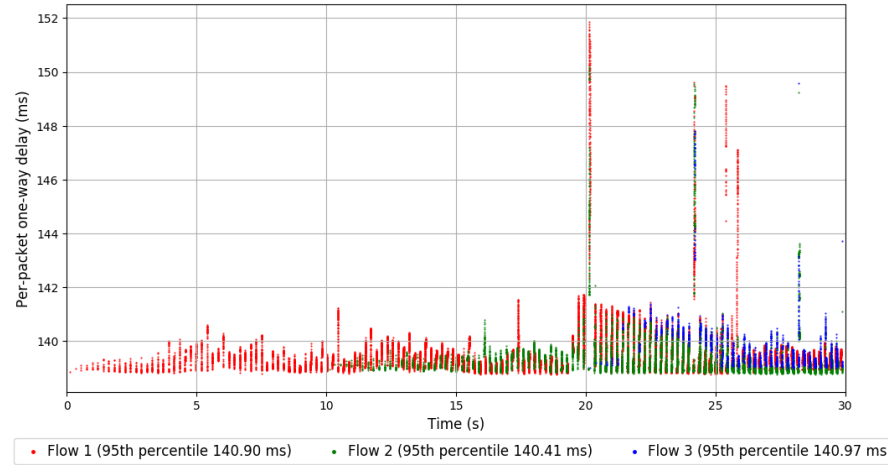
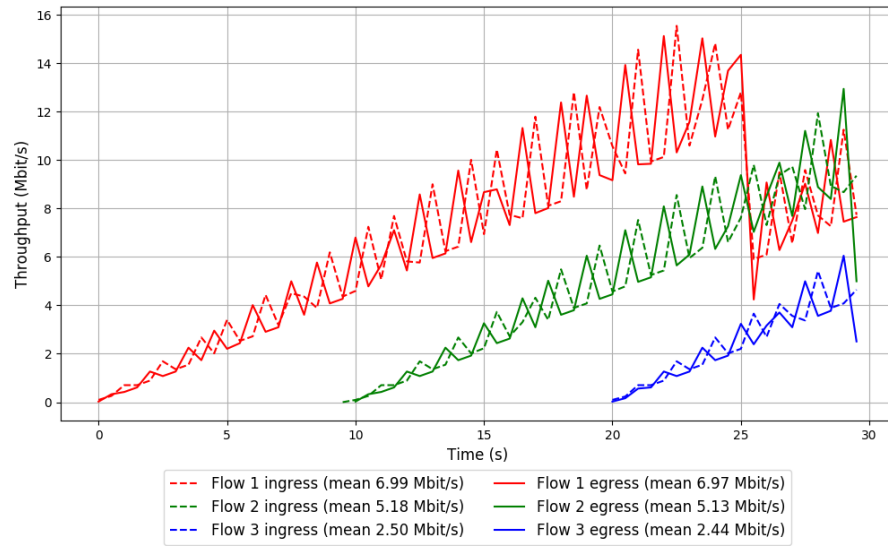
-- Flow 3:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 140.973 ms

Loss rate: 4.31%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 00:57:06 +0000

End at: Mon, 10 Jul 2017 00:57:36 +0000

Local clock offset: -0.499 ms

Remote clock offset: -2.199 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 141.570 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 141.535 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 141.544 ms

Loss rate: 1.71%

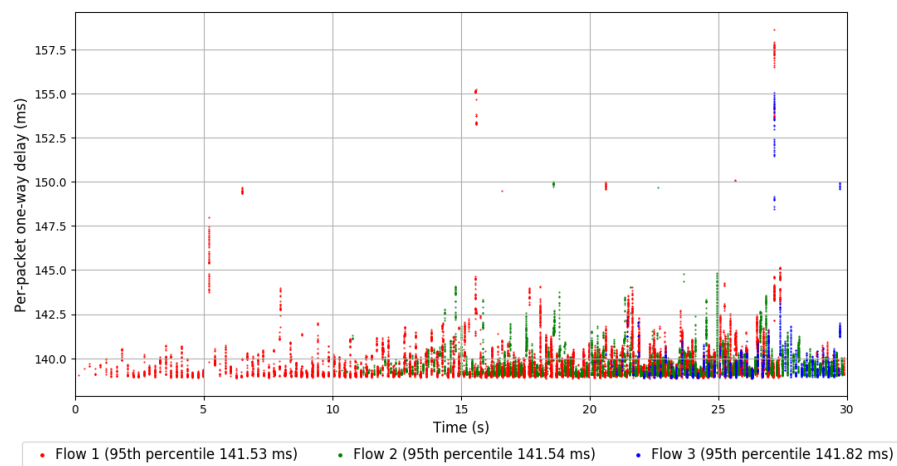
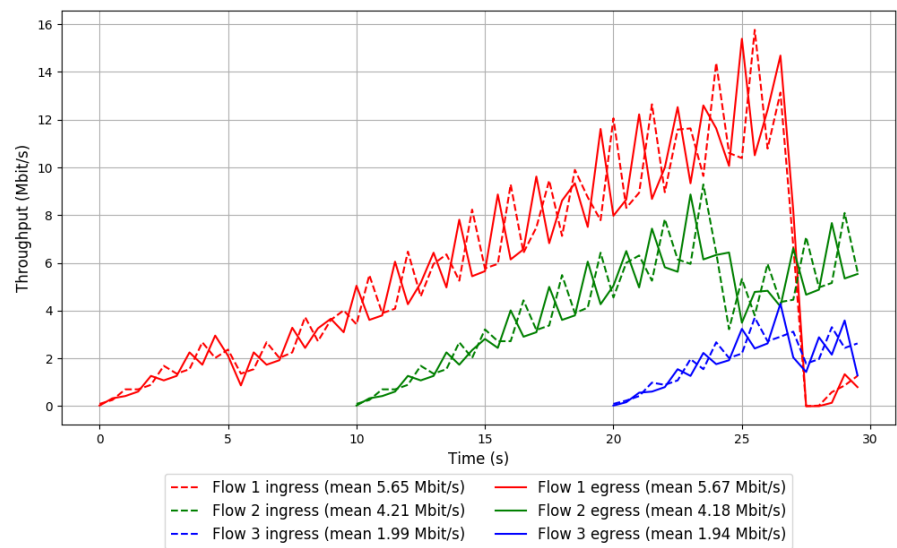
-- Flow 3:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 141.823 ms

Loss rate: 4.79%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 01:16:59 +0000

End at: Mon, 10 Jul 2017 01:17:29 +0000

Local clock offset: 0.721 ms

Remote clock offset: -1.713 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.99 Mbit/s

95th percentile per-packet one-way delay: 141.422 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 141.475 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 141.308 ms

Loss rate: 1.58%

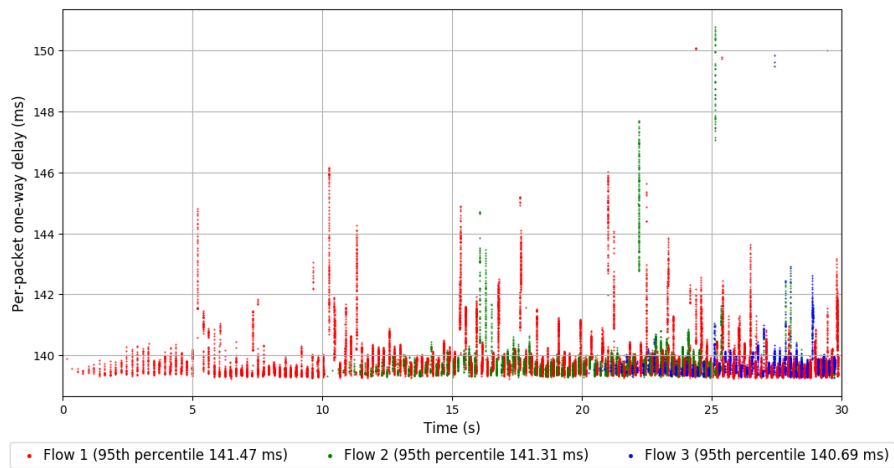
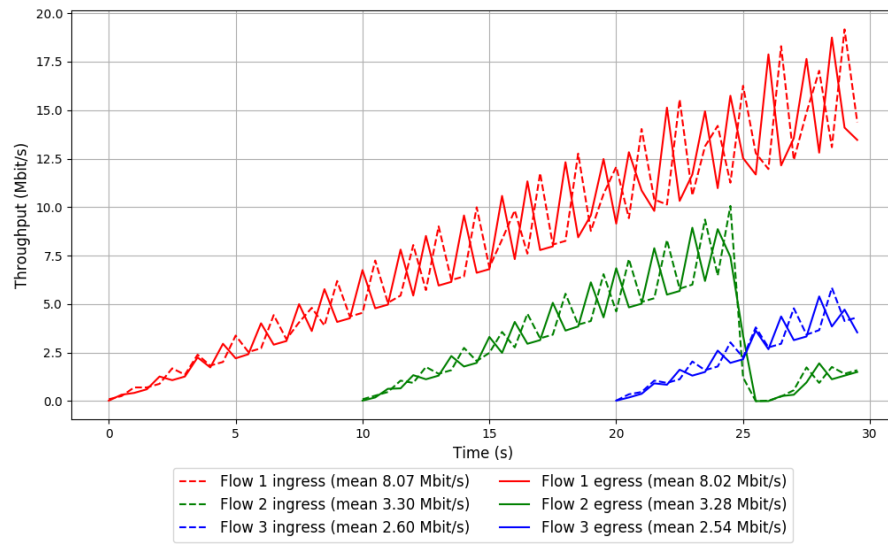
-- Flow 3:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 140.691 ms

Loss rate: 4.33%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 01:36:59 +0000

End at: Mon, 10 Jul 2017 01:37:29 +0000

Local clock offset: -0.577 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 143.317 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 143.037 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 143.521 ms

Loss rate: 0.54%

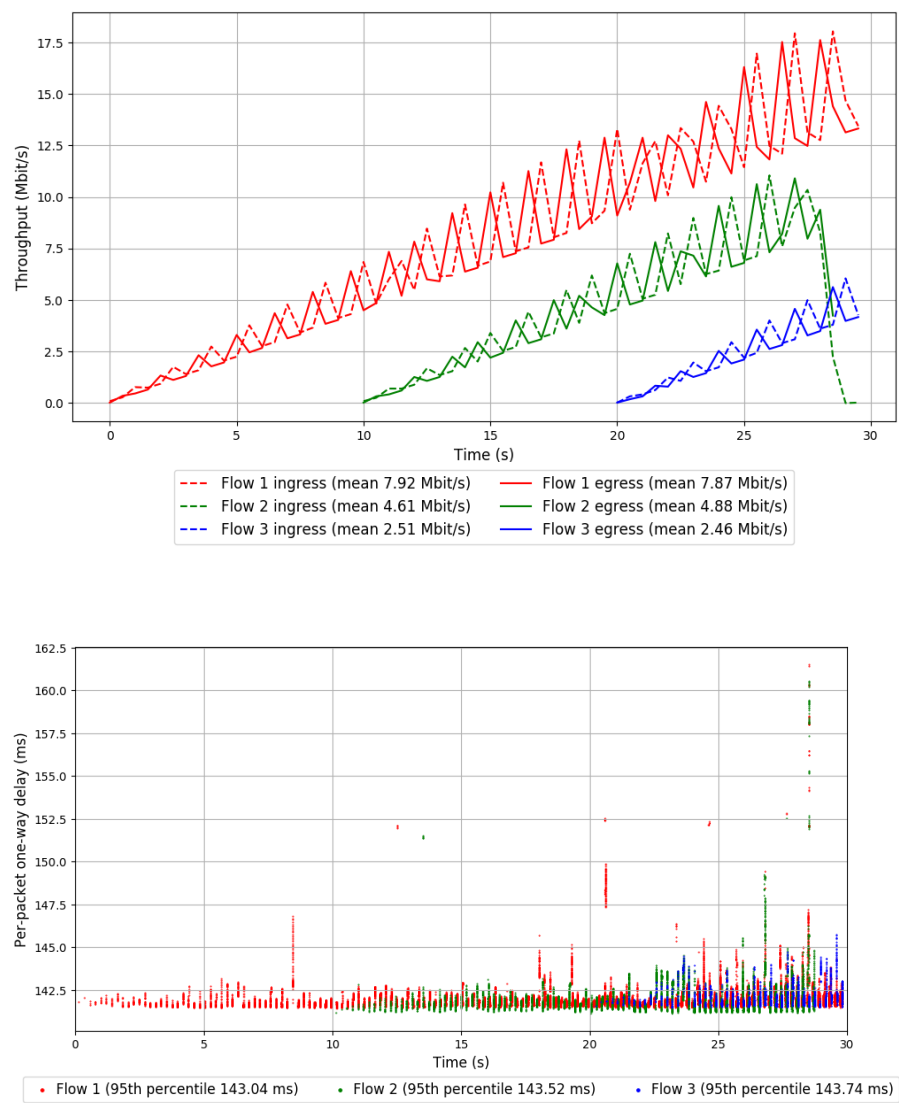
-- Flow 3:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 143.739 ms

Loss rate: 4.37%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 01:56:51 +0000

End at: Mon, 10 Jul 2017 01:57:21 +0000

Local clock offset: 0.477 ms

Remote clock offset: -0.105 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 143.190 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 143.186 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 143.353 ms

Loss rate: 2.14%

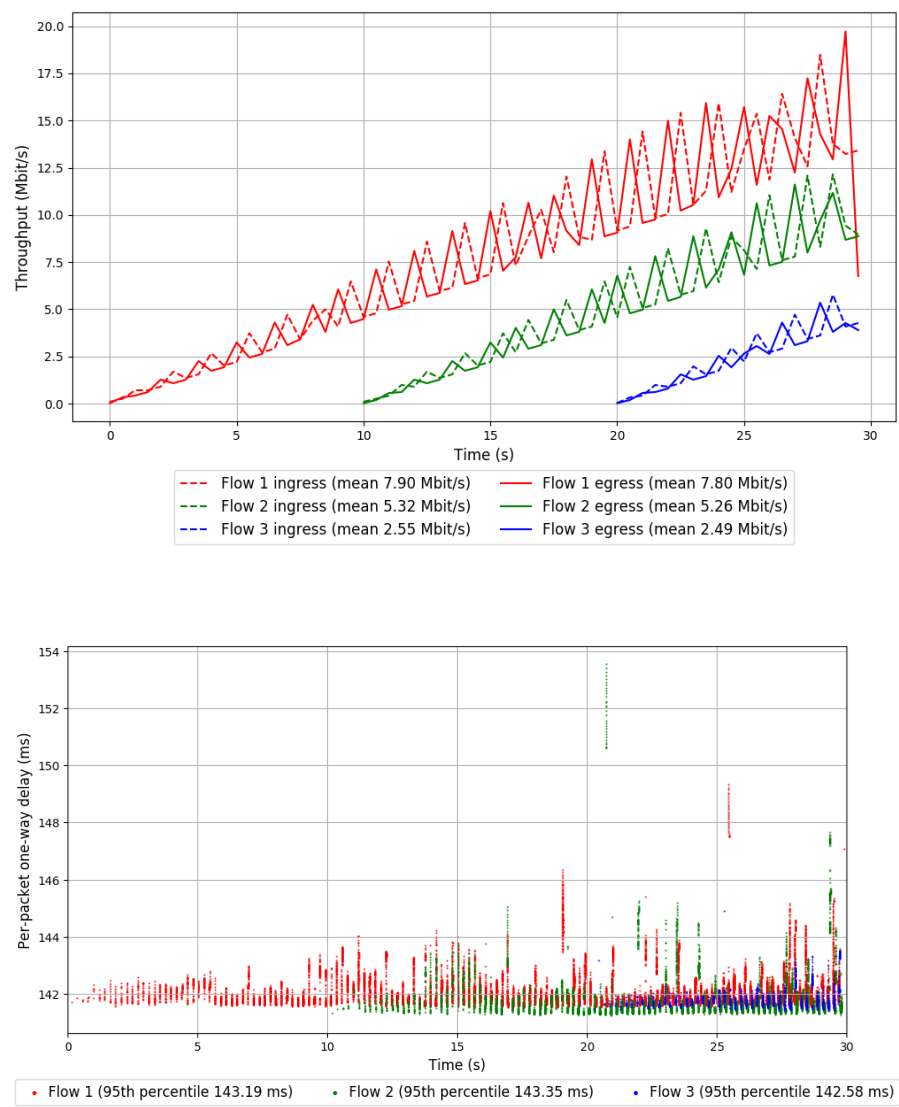
-- Flow 3:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 142.582 ms

Loss rate: 4.37%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: Mon, 10 Jul 2017 02:16:43 +0000

End at: Mon, 10 Jul 2017 02:17:13 +0000

Local clock offset: 0.235 ms

Remote clock offset: -0.344 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 143.970 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 143.769 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 144.194 ms

Loss rate: 2.16%

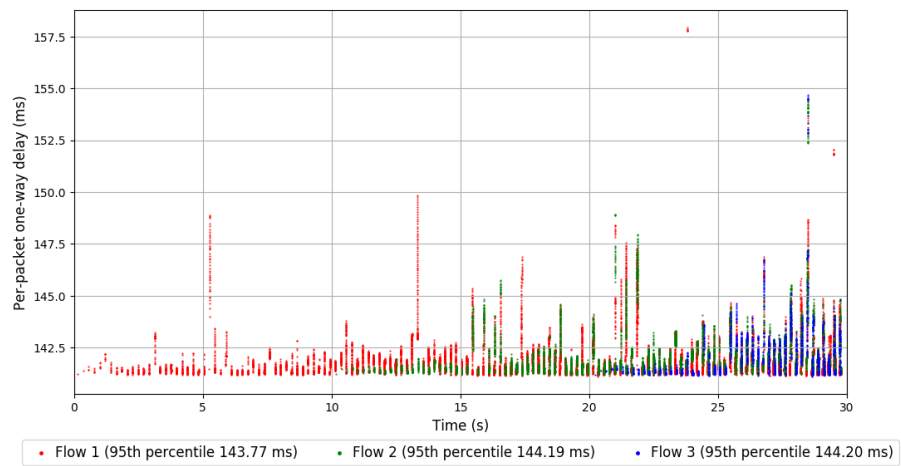
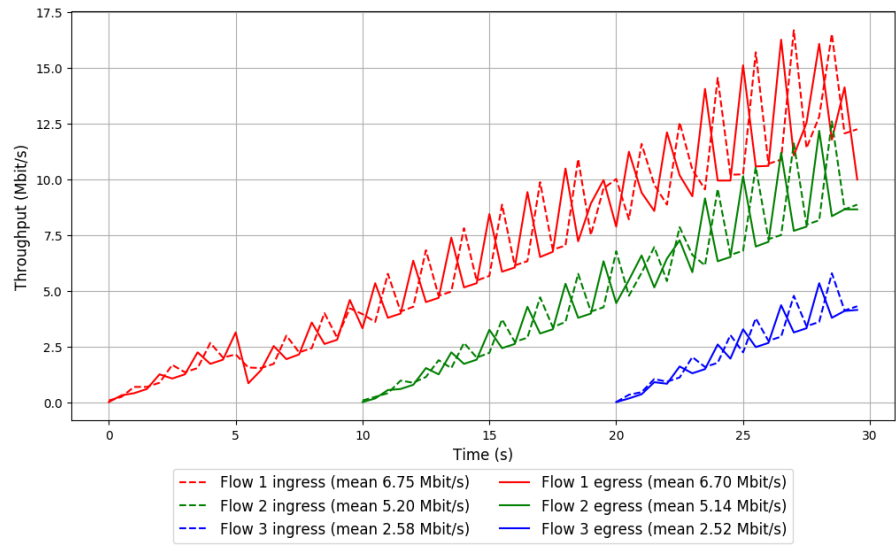
-- Flow 3:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 144.203 ms

Loss rate: 4.34%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Sun, 09 Jul 2017 23:26:16 +0000

End at: Sun, 09 Jul 2017 23:26:46 +0000

Local clock offset: 0.696 ms

Remote clock offset: -1.22 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.95 Mbit/s

95th percentile per-packet one-way delay: 160.261 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 44.80 Mbit/s

95th percentile per-packet one-way delay: 156.263 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 158.006 ms

Loss rate: 1.35%

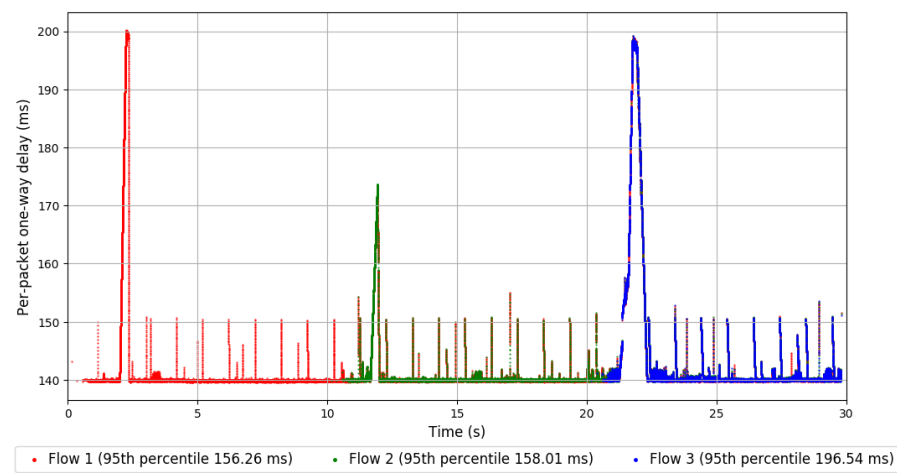
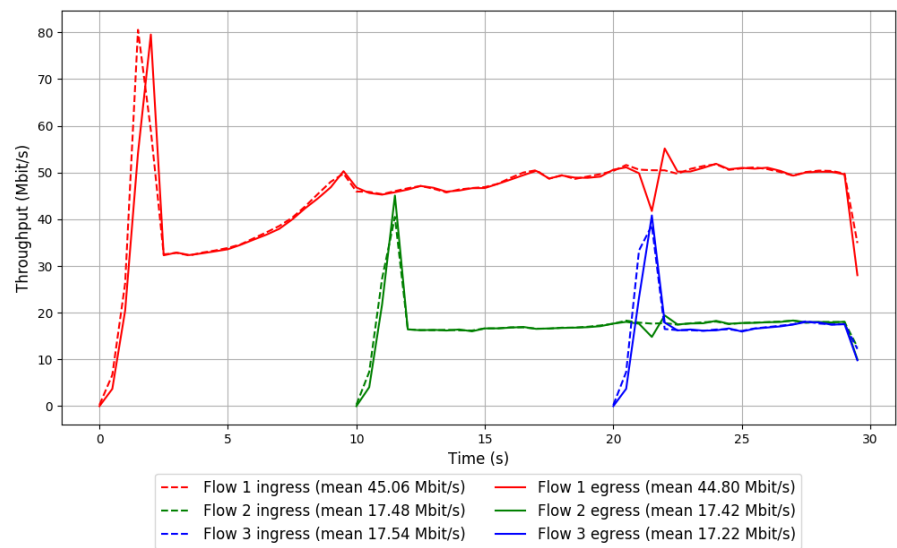
-- Flow 3:

Average throughput: 17.22 Mbit/s

95th percentile per-packet one-way delay: 196.538 ms

Loss rate: 3.81%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Sun, 09 Jul 2017 23:46:12 +0000

End at: Sun, 09 Jul 2017 23:46:42 +0000

Local clock offset: -0.523 ms

Remote clock offset: -0.691 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.70 Mbit/s

95th percentile per-packet one-way delay: 159.530 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 156.424 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 19.35 Mbit/s

95th percentile per-packet one-way delay: 164.579 ms

Loss rate: 1.11%

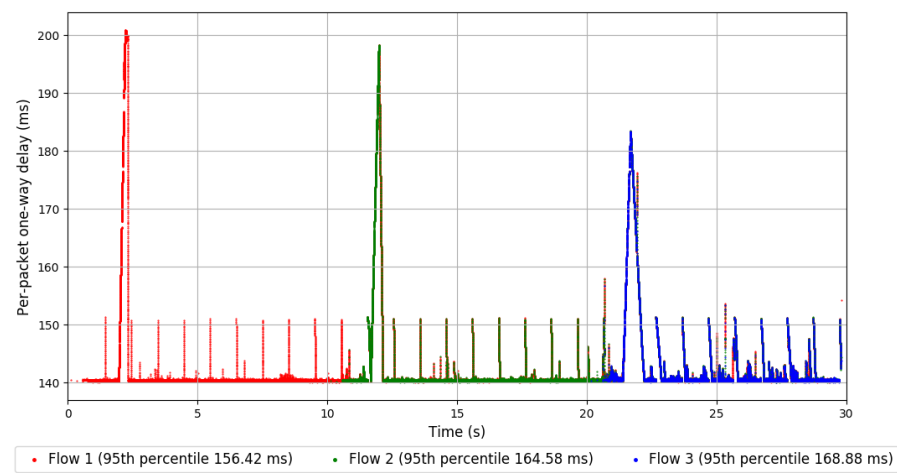
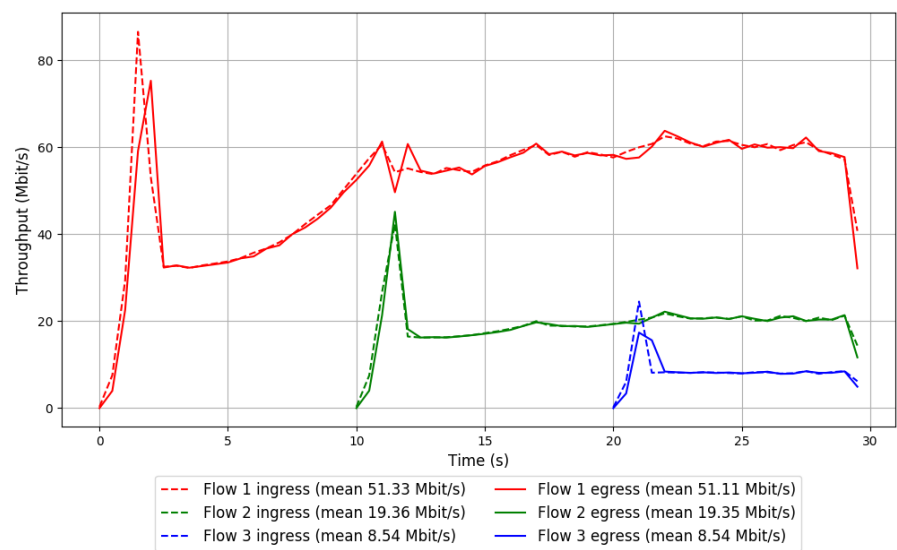
-- Flow 3:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 168.877 ms

Loss rate: 2.19%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Mon, 10 Jul 2017 00:06:09 +0000

End at: Mon, 10 Jul 2017 00:06:39 +0000

Local clock offset: -0.523 ms

Remote clock offset: -1.843 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.86 Mbit/s

95th percentile per-packet one-way delay: 171.934 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 53.74 Mbit/s

95th percentile per-packet one-way delay: 168.968 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 179.638 ms

Loss rate: 1.90%

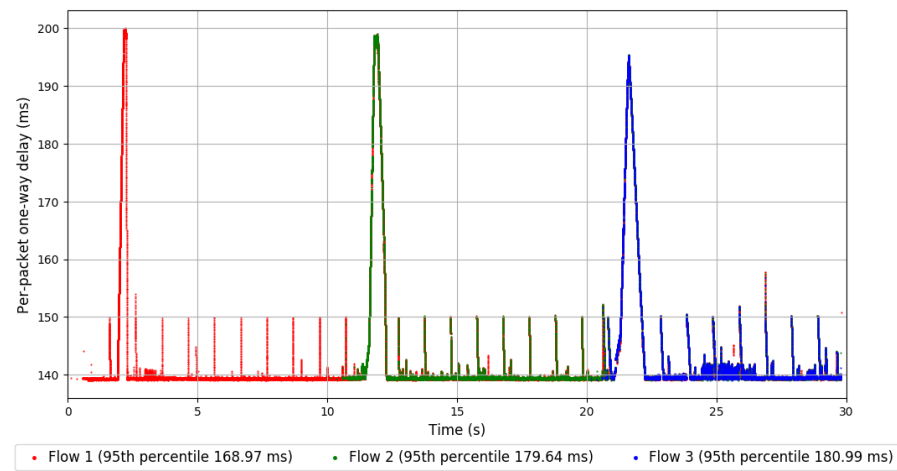
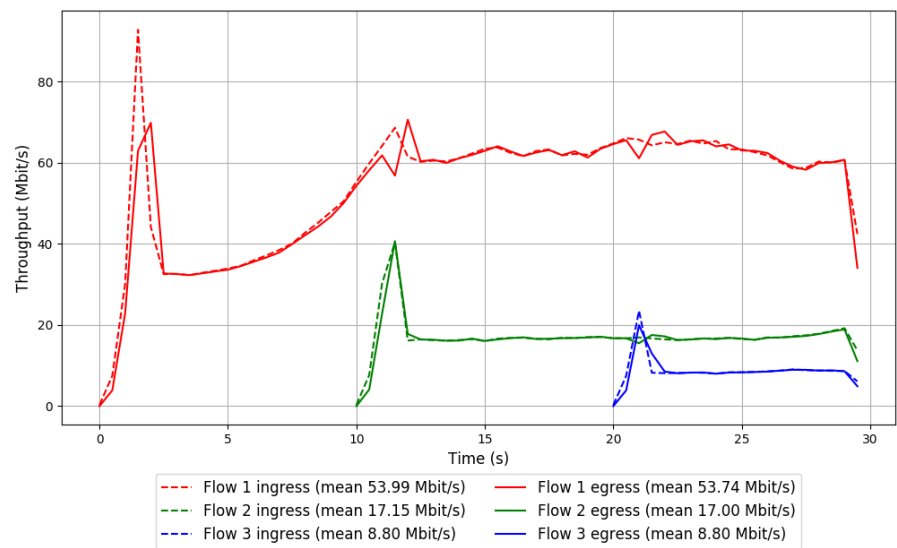
-- Flow 3:

Average throughput: 8.80 Mbit/s

95th percentile per-packet one-way delay: 180.991 ms

Loss rate: 2.08%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Mon, 10 Jul 2017 00:26:07 +0000

End at: Mon, 10 Jul 2017 00:26:37 +0000

Local clock offset: -0.661 ms

Remote clock offset: -2.091 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 195.243 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 194.825 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 195.839 ms

Loss rate: 3.13%

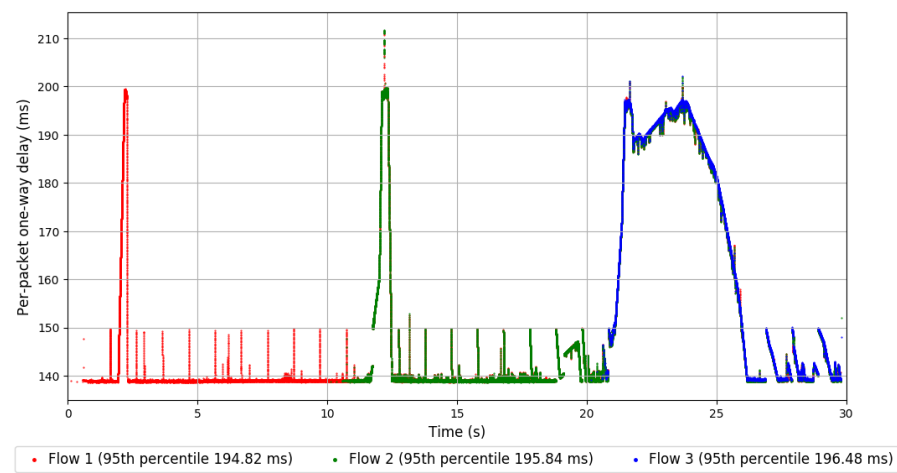
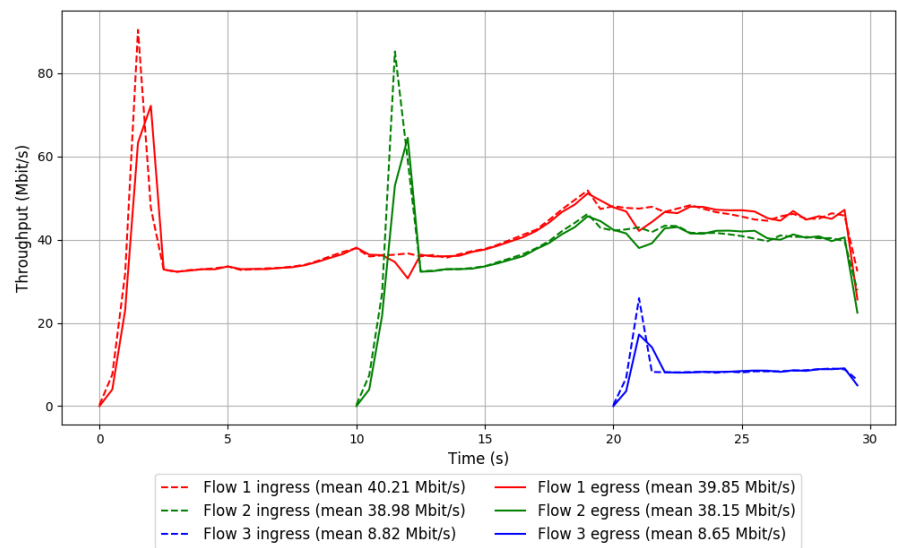
-- Flow 3:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 196.477 ms

Loss rate: 3.95%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Mon, 10 Jul 2017 00:46:17 +0000

End at: Mon, 10 Jul 2017 00:46:47 +0000

Local clock offset: 0.589 ms

Remote clock offset: -2.302 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.79 Mbit/s

95th percentile per-packet one-way delay: 189.260 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 187.395 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 190.267 ms

Loss rate: 3.65%

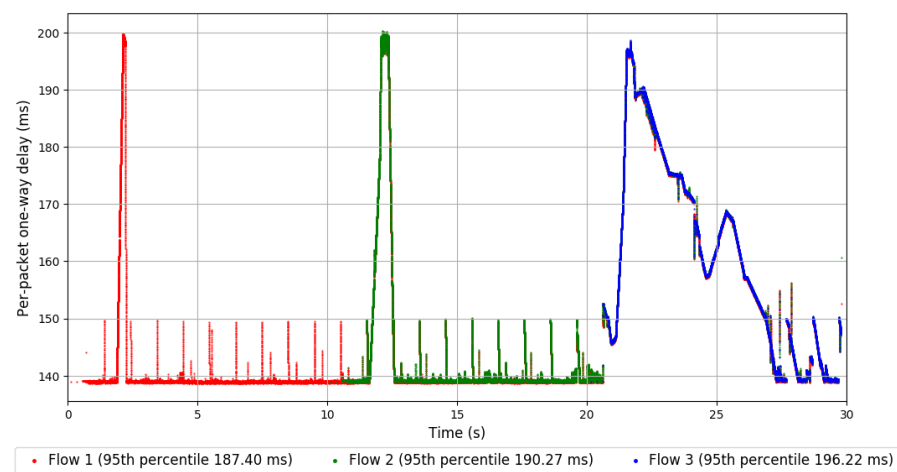
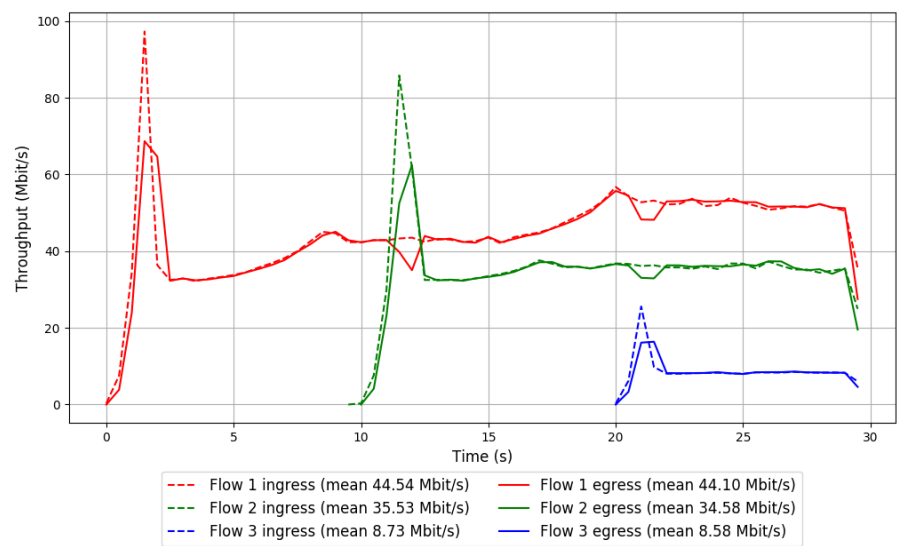
-- Flow 3:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 196.217 ms

Loss rate: 3.78%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Mon, 10 Jul 2017 01:06:08 +0000

End at: Mon, 10 Jul 2017 01:06:38 +0000

Local clock offset: 0.599 ms

Remote clock offset: -1.995 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.96 Mbit/s

95th percentile per-packet one-way delay: 183.730 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 36.49 Mbit/s

95th percentile per-packet one-way delay: 176.531 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 187.819 ms

Loss rate: 3.12%

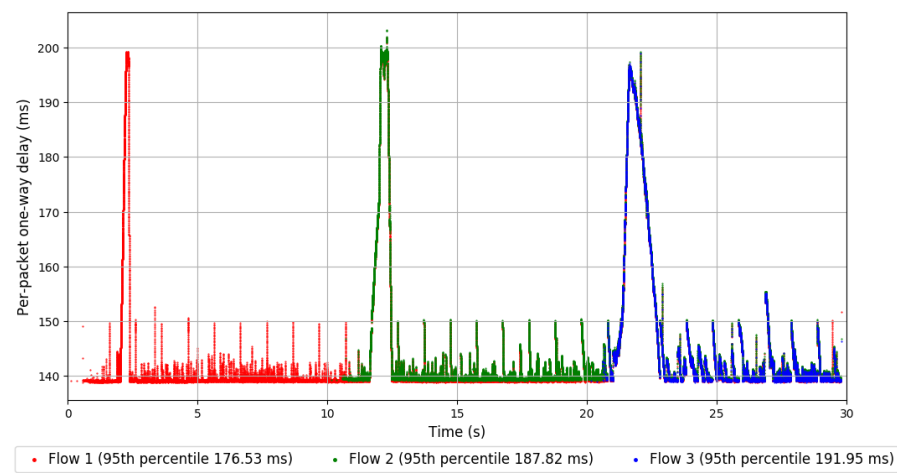
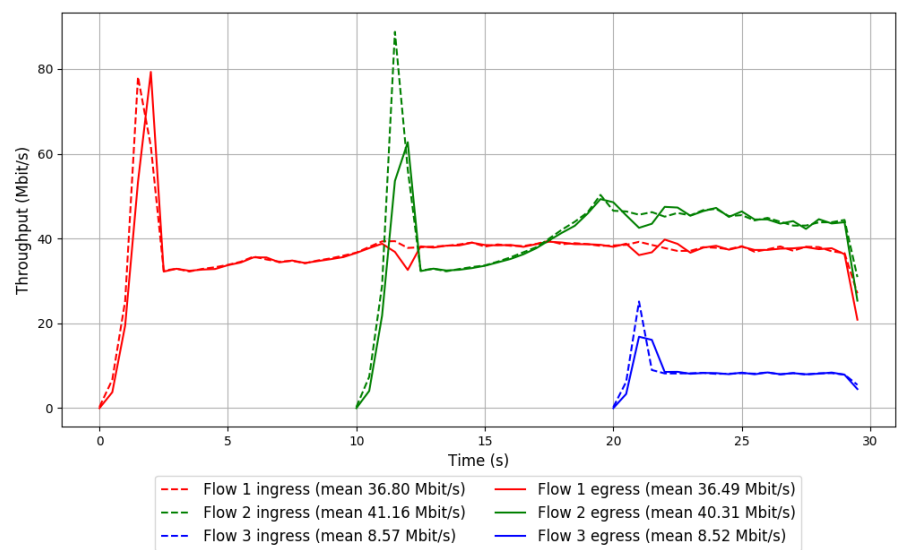
-- Flow 3:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 191.952 ms

Loss rate: 2.72%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Mon, 10 Jul 2017 01:26:11 +0000

End at: Mon, 10 Jul 2017 01:26:41 +0000

Local clock offset: -0.498 ms

Remote clock offset: -1.635 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.77 Mbit/s

95th percentile per-packet one-way delay: 177.980 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 36.34 Mbit/s

95th percentile per-packet one-way delay: 165.438 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 185.610 ms

Loss rate: 3.45%

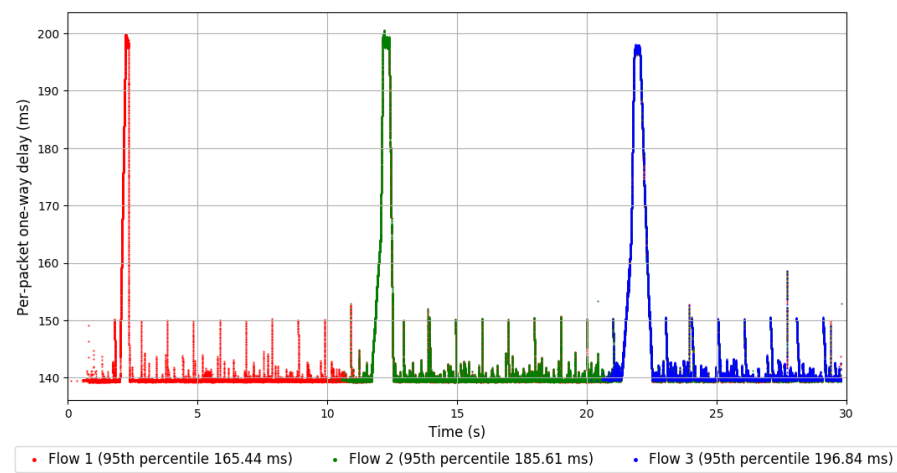
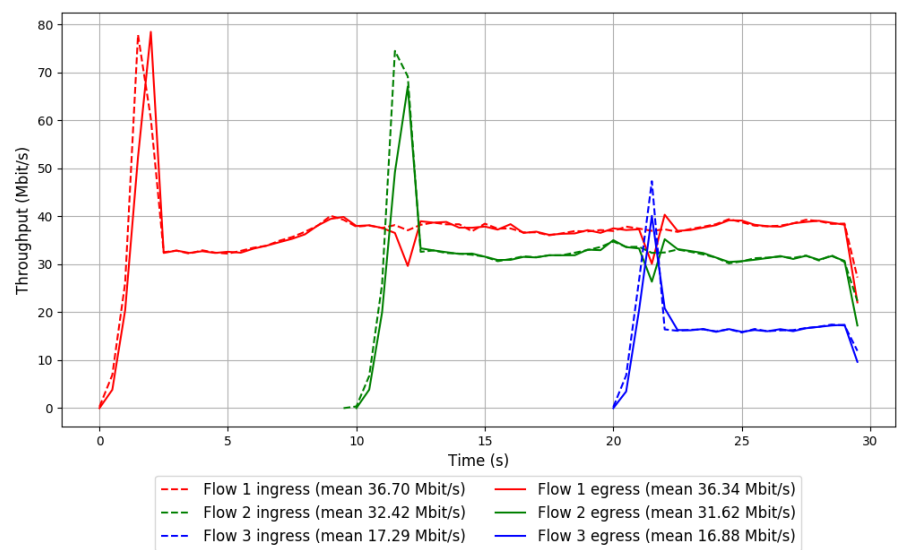
-- Flow 3:

Average throughput: 16.88 Mbit/s

95th percentile per-packet one-way delay: 196.841 ms

Loss rate: 4.43%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Mon, 10 Jul 2017 01:46:06 +0000

End at: Mon, 10 Jul 2017 01:46:36 +0000

Local clock offset: 0.268 ms

Remote clock offset: -0.171 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:05:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 173.059 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 172.674 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 17.29 Mbit/s

95th percentile per-packet one-way delay: 171.234 ms

Loss rate: 1.16%

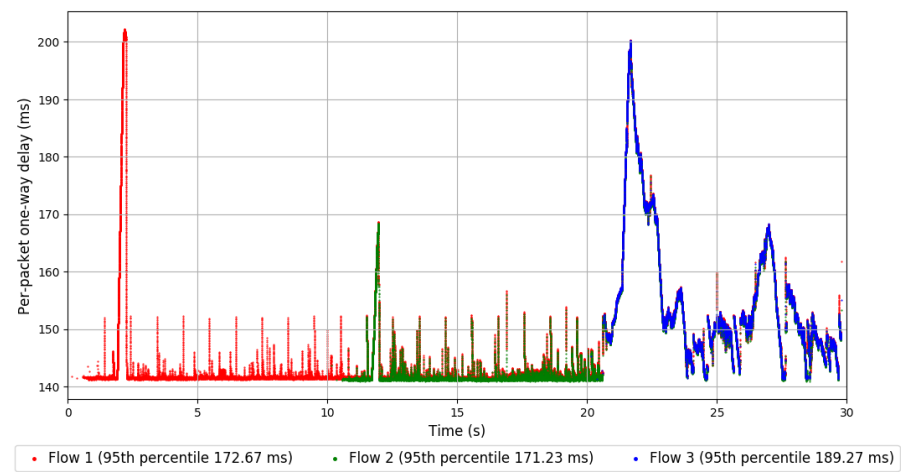
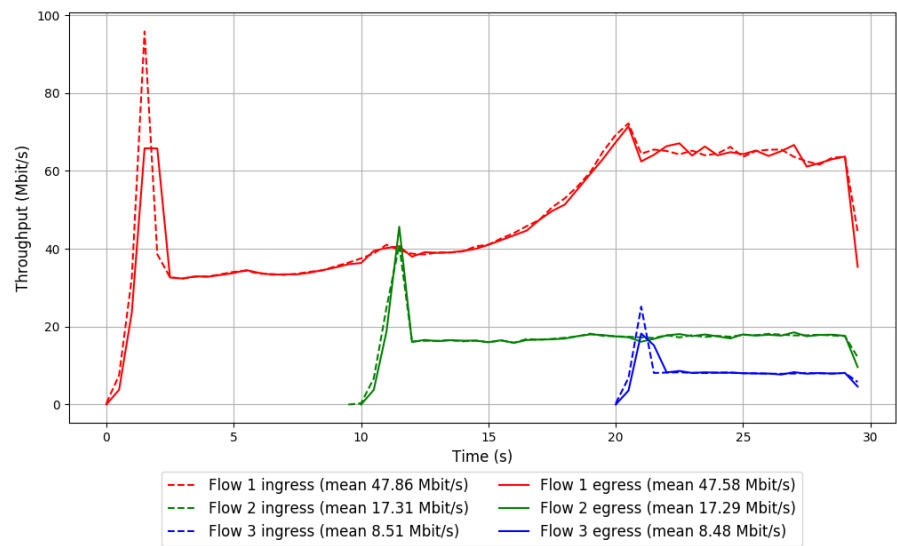
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 189.272 ms

Loss rate: 2.41%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Mon, 10 Jul 2017 02:05:55 +0000

End at: Mon, 10 Jul 2017 02:06:25 +0000

Local clock offset: -0.833 ms

Remote clock offset: -0.338 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.78 Mbit/s

95th percentile per-packet one-way delay: 178.146 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 49.77 Mbit/s

95th percentile per-packet one-way delay: 172.499 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 178.514 ms

Loss rate: 1.60%

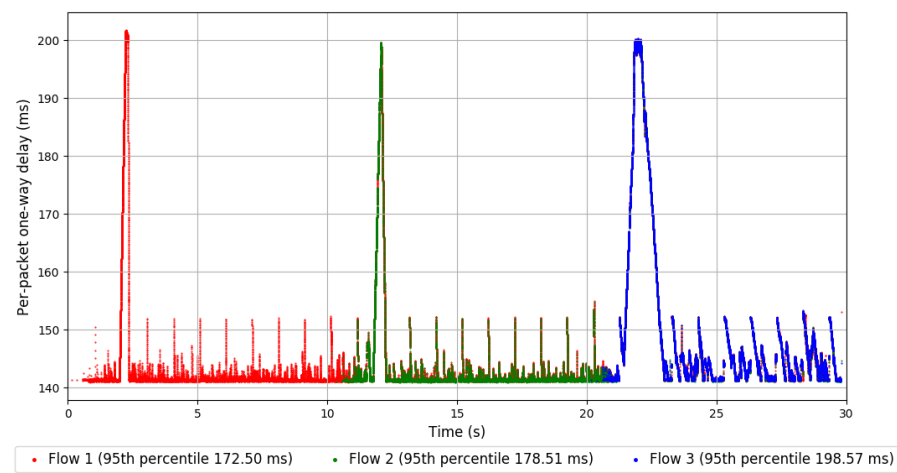
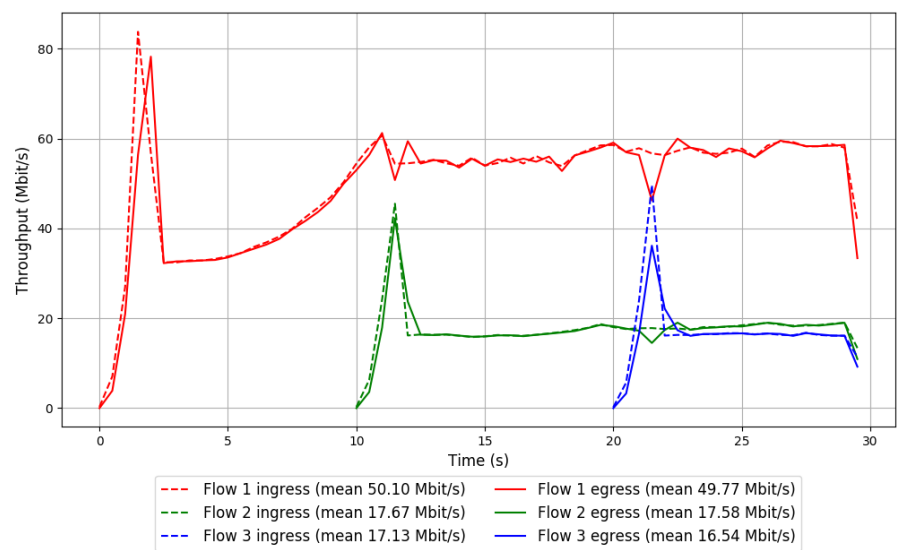
-- Flow 3:

Average throughput: 16.54 Mbit/s

95th percentile per-packet one-way delay: 198.575 ms

Loss rate: 5.56%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Mon, 10 Jul 2017 02:25:47 +0000

End at: Mon, 10 Jul 2017 02:26:17 +0000

Local clock offset: -0.972 ms

Remote clock offset: -0.426 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:03 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.78 Mbit/s

95th percentile per-packet one-way delay: 165.017 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 38.07 Mbit/s

95th percentile per-packet one-way delay: 161.418 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 18.52 Mbit/s

95th percentile per-packet one-way delay: 160.923 ms

Loss rate: 1.38%

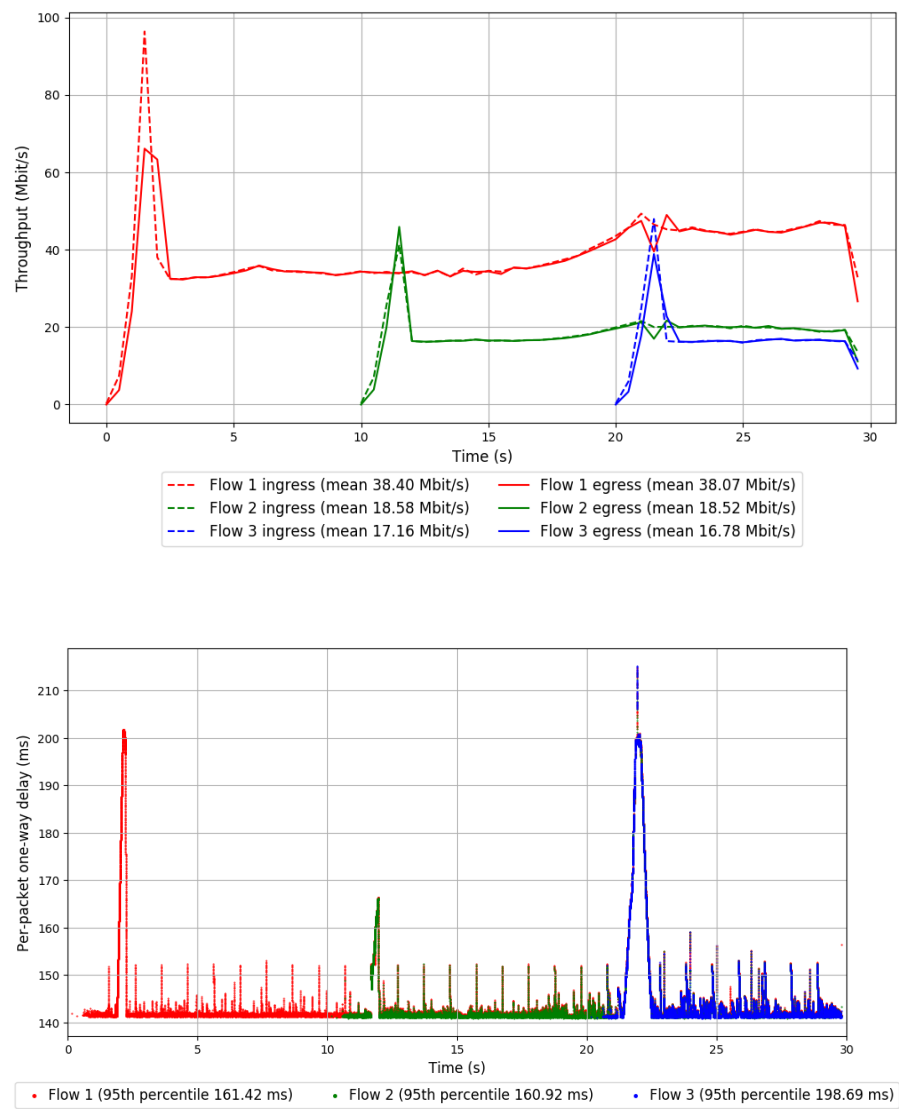
-- Flow 3:

Average throughput: 16.78 Mbit/s

95th percentile per-packet one-way delay: 198.687 ms

Loss rate: 4.29%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Sun, 09 Jul 2017 23:18:29 +0000

End at: Sun, 09 Jul 2017 23:18:59 +0000

Local clock offset: -0.295 ms

Remote clock offset: -1.335 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 142.809 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 140.312 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.19 Mbit/s

95th percentile per-packet one-way delay: 146.546 ms

Loss rate: 0.15%

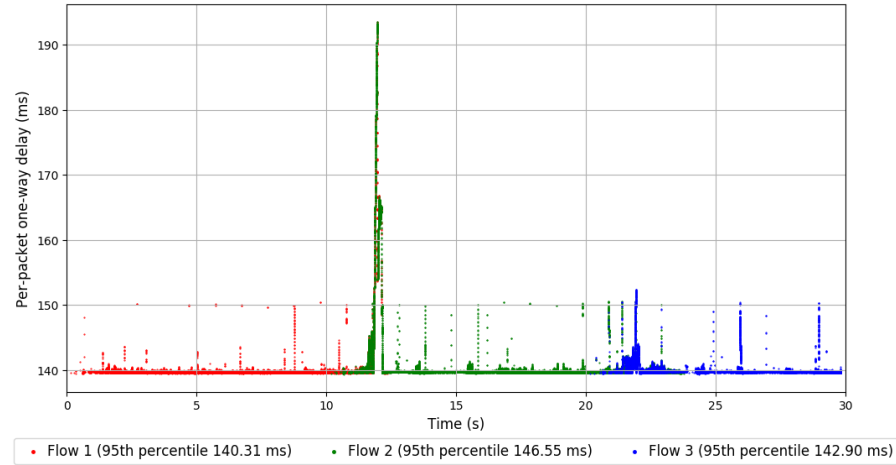
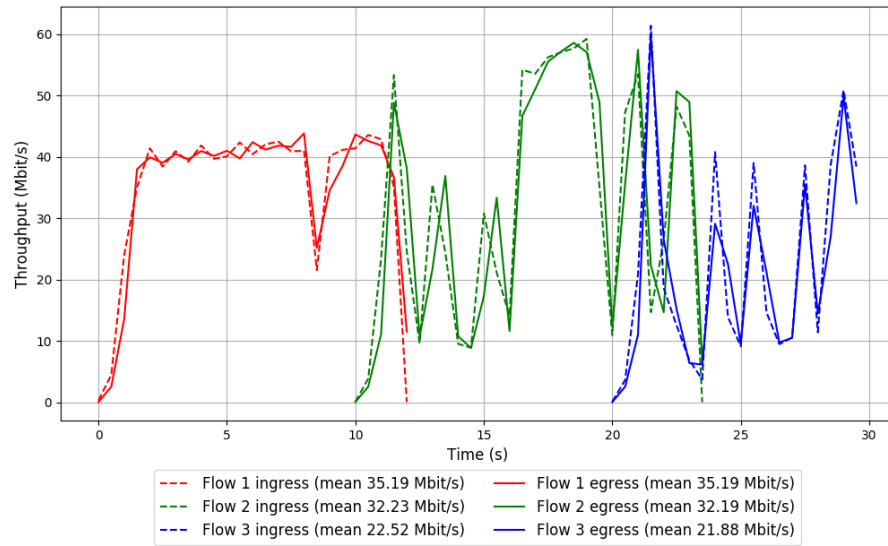
-- Flow 3:

Average throughput: 21.88 Mbit/s

95th percentile per-packet one-way delay: 142.903 ms

Loss rate: 4.89%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Sun, 09 Jul 2017 23:38:24 +0000

End at: Sun, 09 Jul 2017 23:38:54 +0000

Local clock offset: -0.555 ms

Remote clock offset: -0.866 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.95 Mbit/s

95th percentile per-packet one-way delay: 153.749 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 151.211 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 155.347 ms

Loss rate: 0.05%

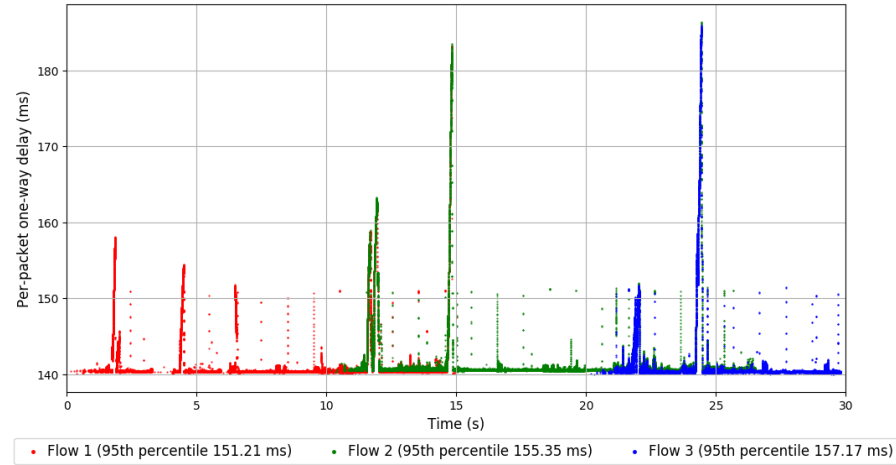
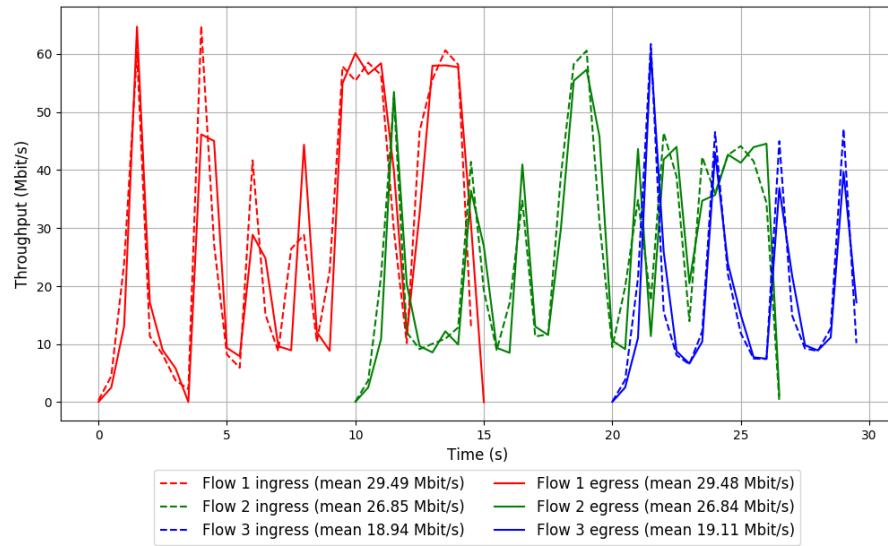
-- Flow 3:

Average throughput: 19.11 Mbit/s

95th percentile per-packet one-way delay: 157.166 ms

Loss rate: 1.21%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: Sun, 09 Jul 2017 23:58:22 +0000

End at: Sun, 09 Jul 2017 23:58:52 +0000

Local clock offset: -0.633 ms

Remote clock offset: -1.51 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 173.785 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 27.01 Mbit/s

95th percentile per-packet one-way delay: 165.270 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 174.440 ms

Loss rate: 0.40%

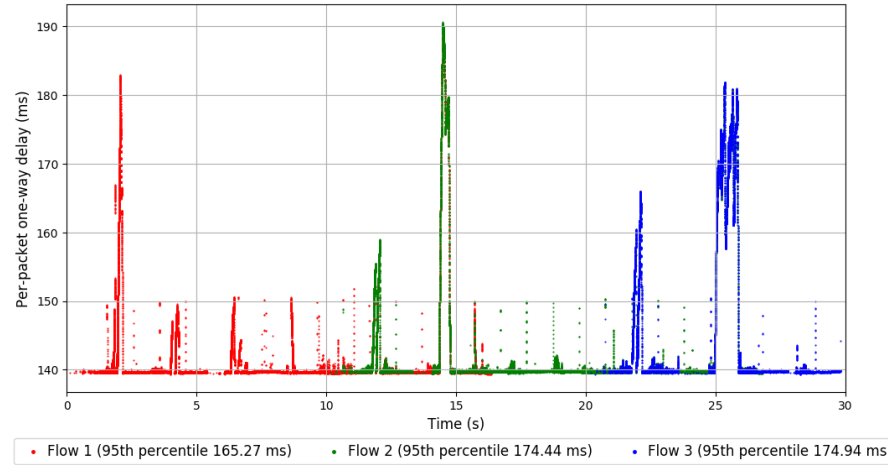
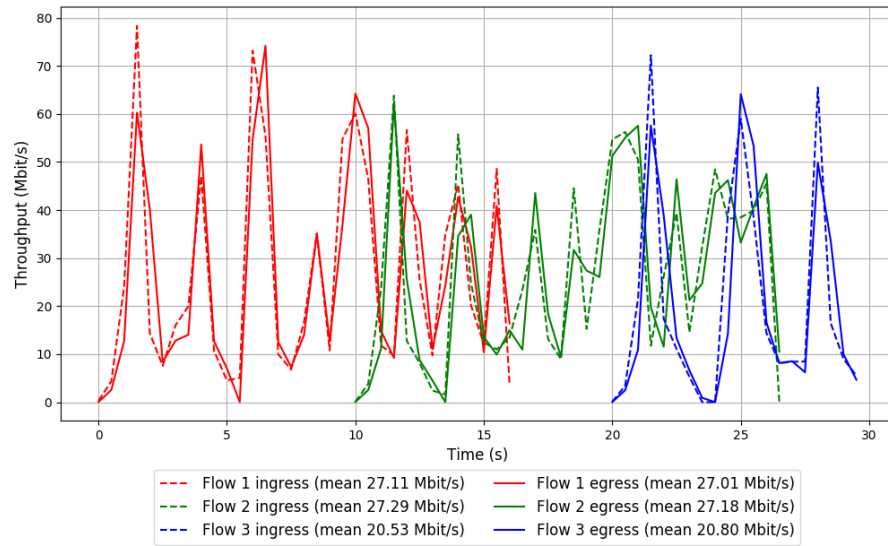
-- Flow 3:

Average throughput: 20.80 Mbit/s

95th percentile per-packet one-way delay: 174.944 ms

Loss rate: 0.76%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 00:18:15 +0000

End at: Mon, 10 Jul 2017 00:18:45 +0000

Local clock offset: 0.745 ms

Remote clock offset: -2.052 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 154.602 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 28.76 Mbit/s

95th percentile per-packet one-way delay: 150.422 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 159.072 ms

Loss rate: 0.02%

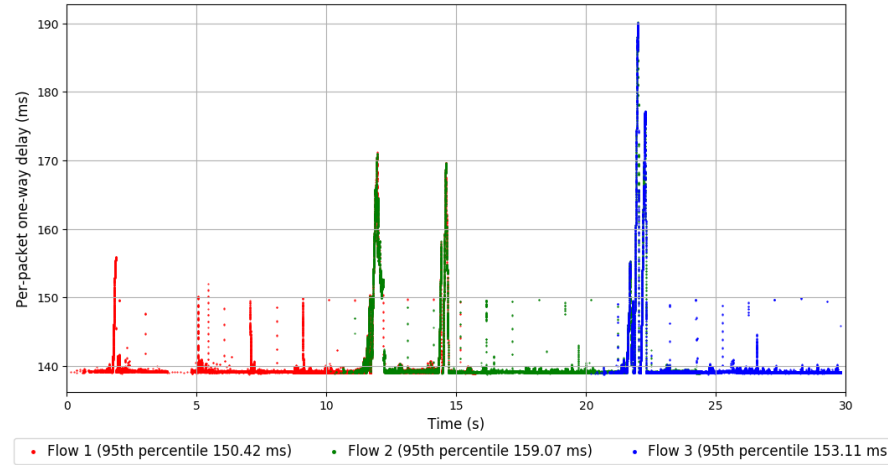
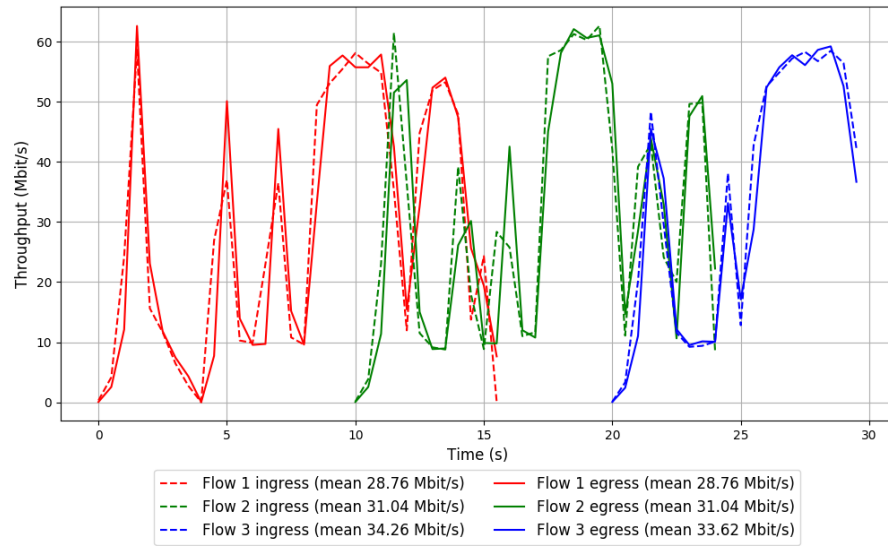
-- Flow 3:

Average throughput: 33.62 Mbit/s

95th percentile per-packet one-way delay: 153.108 ms

Loss rate: 3.89%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 00:38:22 +0000

End at: Mon, 10 Jul 2017 00:38:52 +0000

Local clock offset: 0.748 ms

Remote clock offset: -2.354 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.18 Mbit/s

95th percentile per-packet one-way delay: 146.553 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 153.821 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 141.674 ms

Loss rate: 0.00%

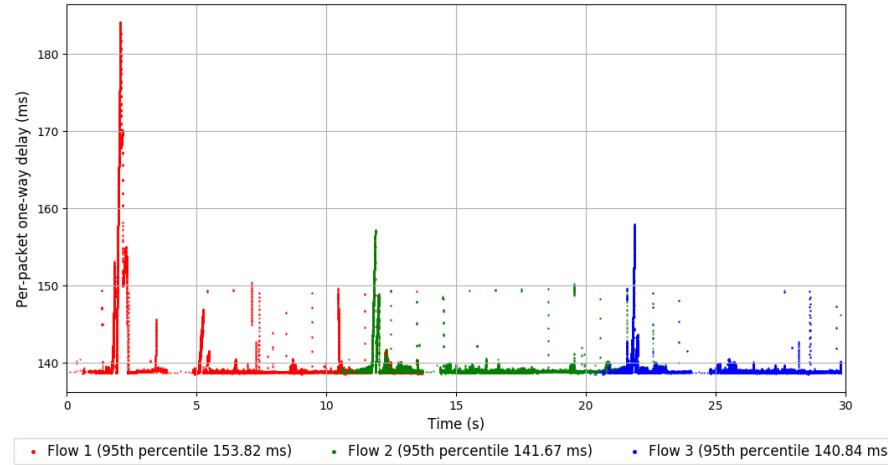
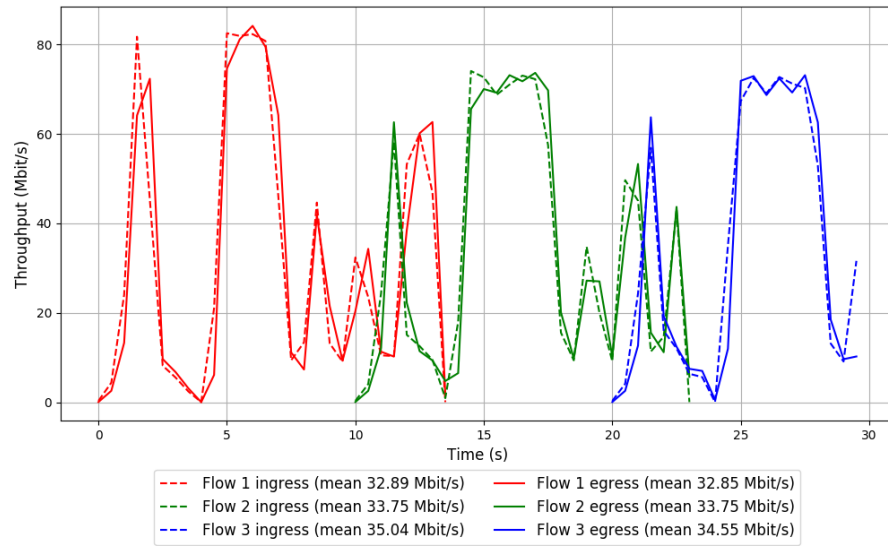
-- Flow 3:

Average throughput: 34.55 Mbit/s

95th percentile per-packet one-way delay: 140.842 ms

Loss rate: 3.44%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 00:58:22 +0000

End at: Mon, 10 Jul 2017 00:58:52 +0000

Local clock offset: -0.439 ms

Remote clock offset: -2.159 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 169.587 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 163.046 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 26.35 Mbit/s

95th percentile per-packet one-way delay: 174.357 ms

Loss rate: 0.13%

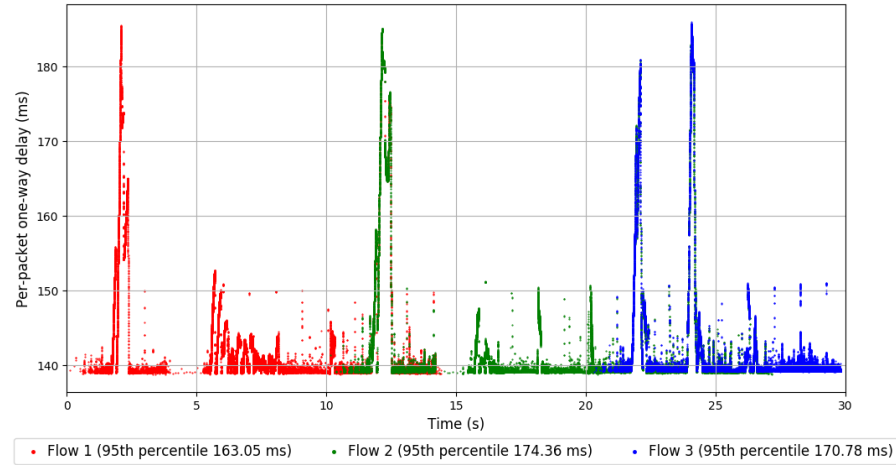
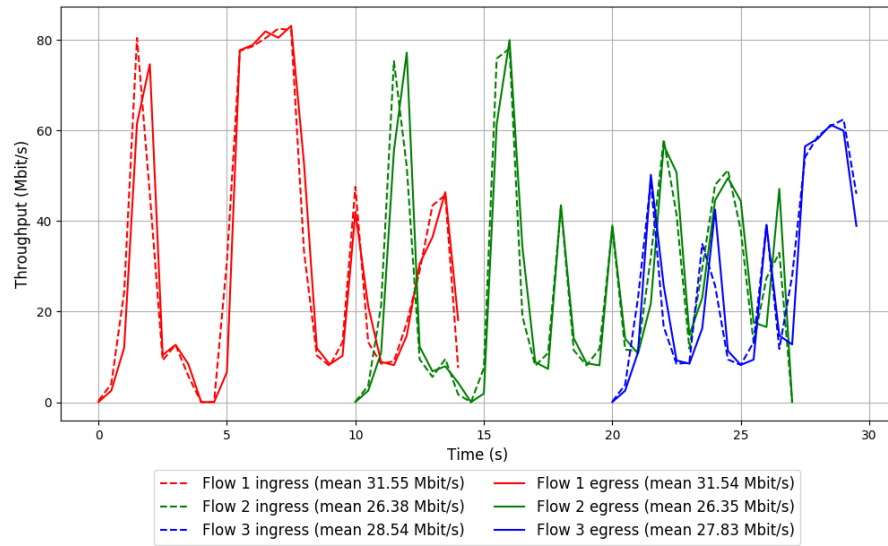
-- Flow 3:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 170.779 ms

Loss rate: 4.58%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 01:18:15 +0000

End at: Mon, 10 Jul 2017 01:18:45 +0000

Local clock offset: 0.584 ms

Remote clock offset: -1.789 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 161.681 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 24.29 Mbit/s

95th percentile per-packet one-way delay: 148.752 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.16 Mbit/s

95th percentile per-packet one-way delay: 163.826 ms

Loss rate: 0.14%

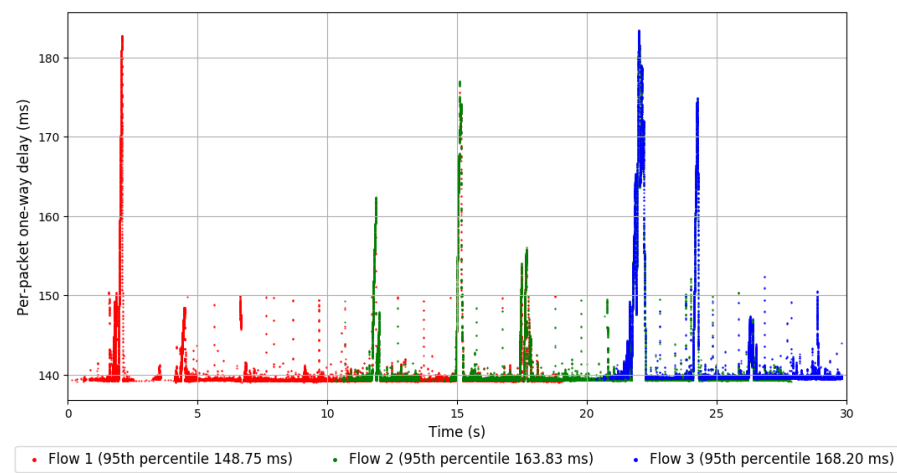
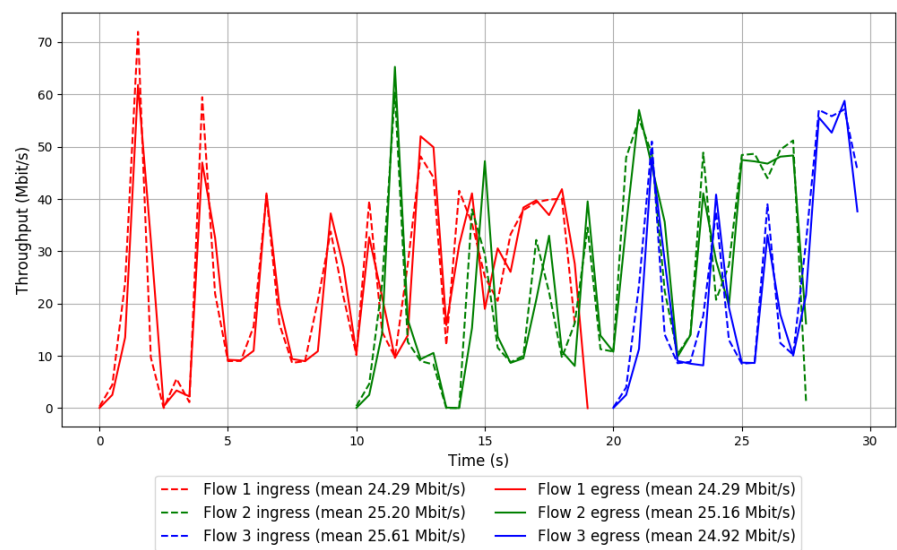
-- Flow 3:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 168.202 ms

Loss rate: 4.76%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

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

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

Local clock offset: -0.706 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.82 Mbit/s

95th percentile per-packet one-way delay: 166.169 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 25.47 Mbit/s

95th percentile per-packet one-way delay: 165.687 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 166.241 ms

Loss rate: 0.05%

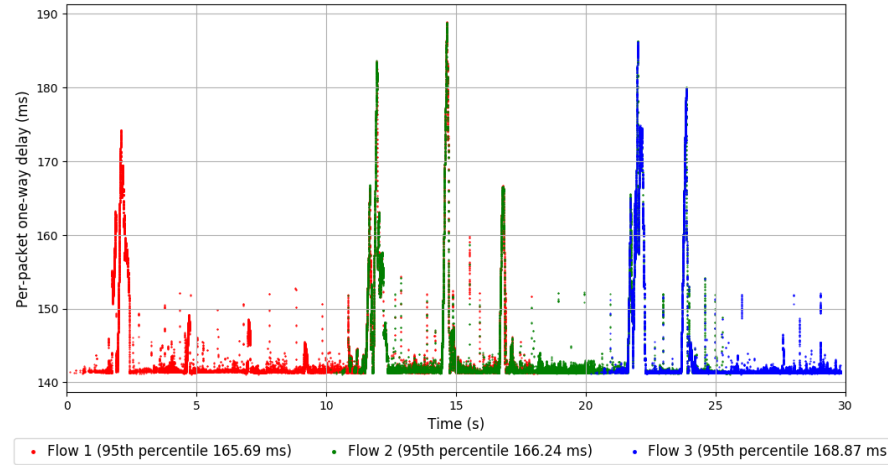
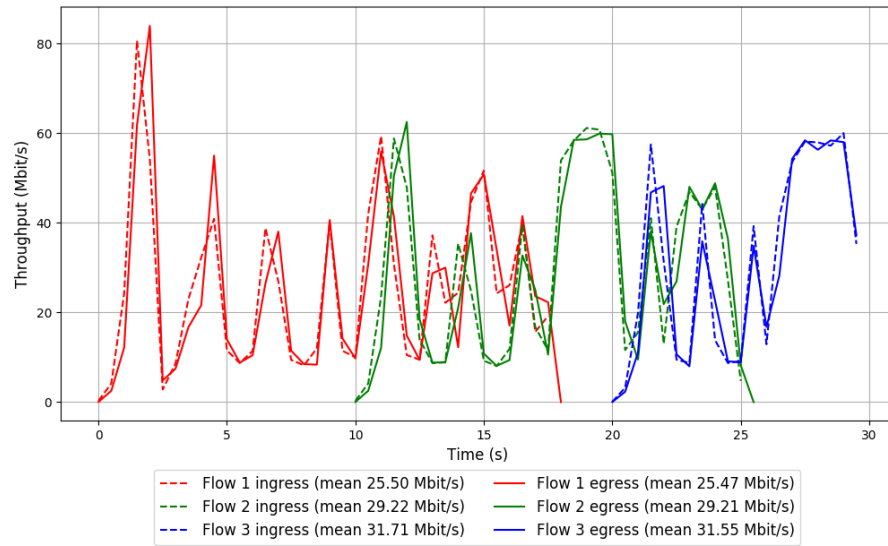
-- Flow 3:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 168.869 ms

Loss rate: 2.58%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 01:58:07 +0000

End at: Mon, 10 Jul 2017 01:58:37 +0000

Local clock offset: -0.949 ms

Remote clock offset: -0.125 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.51 Mbit/s

95th percentile per-packet one-way delay: 162.959 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 170.833 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 26.76 Mbit/s

95th percentile per-packet one-way delay: 162.644 ms

Loss rate: 0.28%

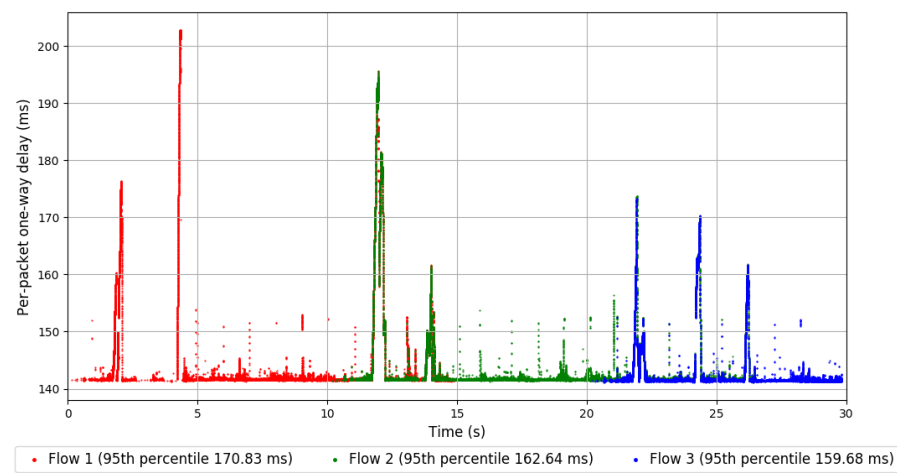
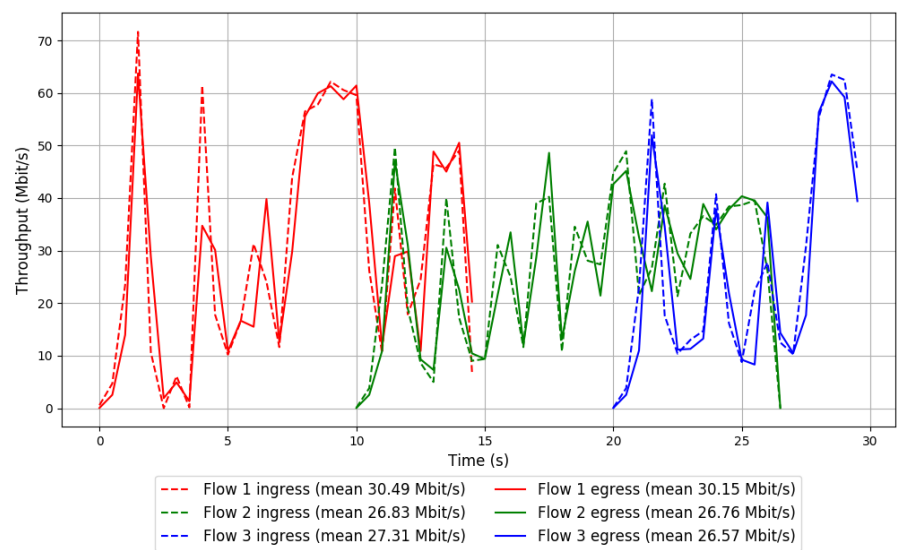
-- Flow 3:

Average throughput: 26.57 Mbit/s

95th percentile per-packet one-way delay: 159.682 ms

Loss rate: 4.76%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: Mon, 10 Jul 2017 02:18:00 +0000

End at: Mon, 10 Jul 2017 02:18:30 +0000

Local clock offset: -1.085 ms

Remote clock offset: -0.277 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.49 Mbit/s

95th percentile per-packet one-way delay: 165.467 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 163.933 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 164.157 ms

Loss rate: 0.14%

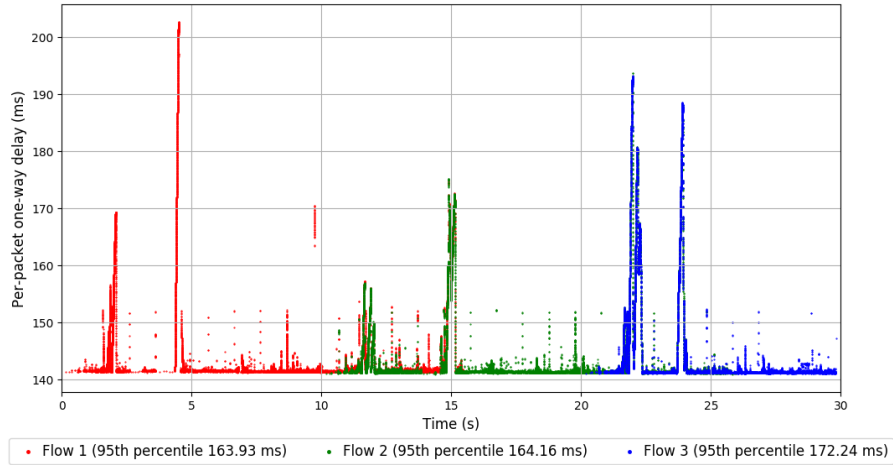
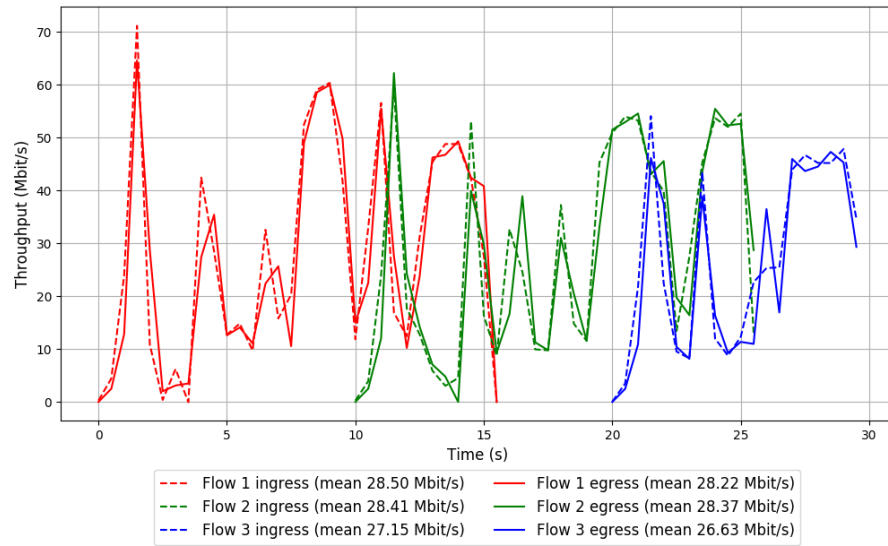
-- Flow 3:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 172.241 ms

Loss rate: 3.98%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Sun, 09 Jul 2017 23:34:28 +0000

End at: Sun, 09 Jul 2017 23:34:58 +0000

Local clock offset: -0.375 ms

Remote clock offset: -0.907 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.25 Mbit/s

95th percentile per-packet one-way delay: 141.827 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 141.815 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 141.550 ms

Loss rate: 1.08%

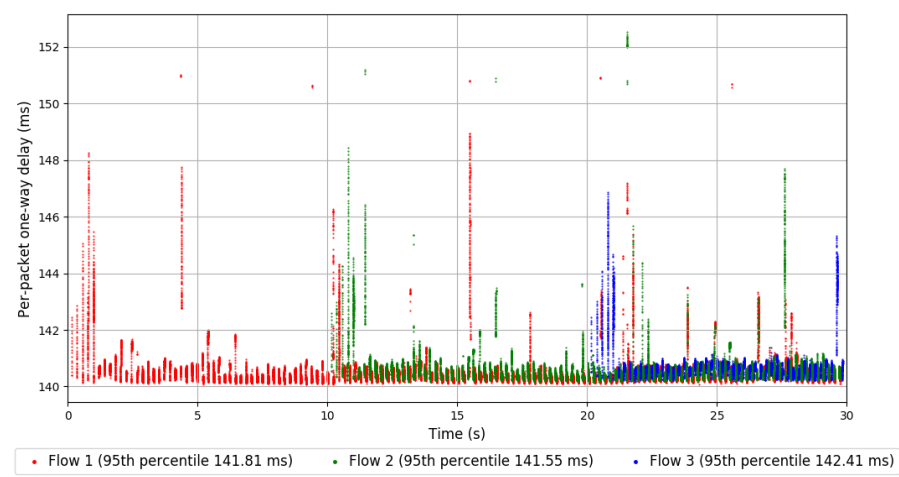
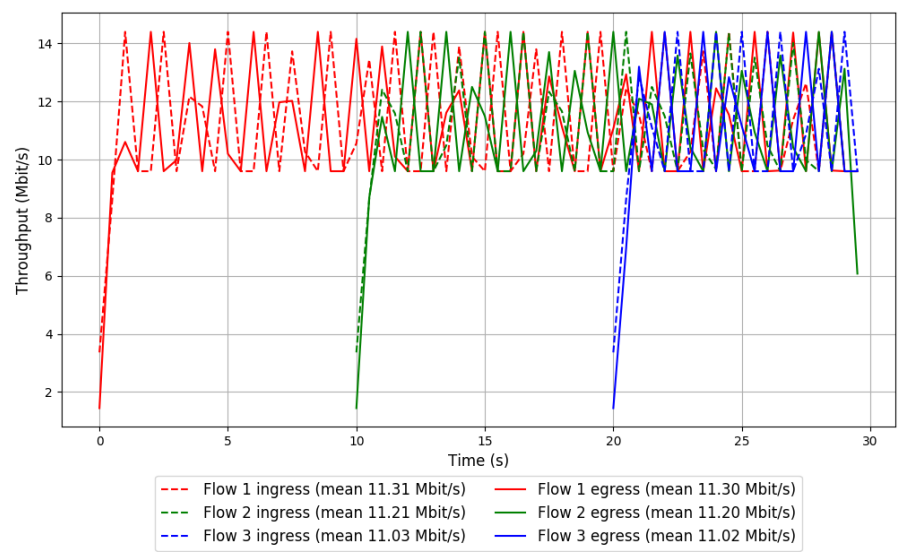
-- Flow 3:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 142.405 ms

Loss rate: 2.20%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

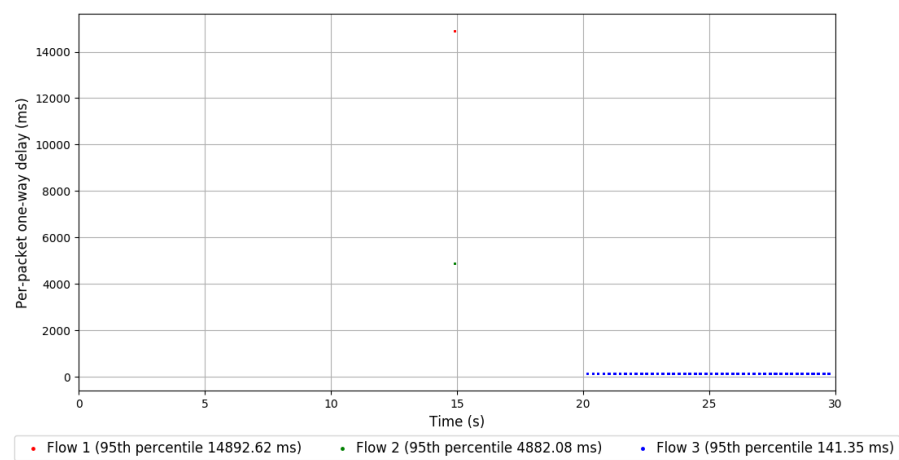
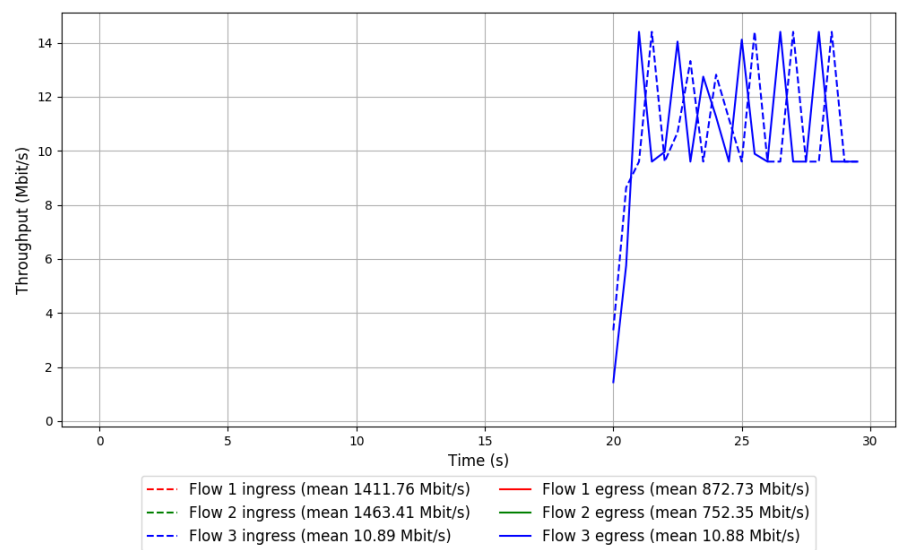
Start at: Sun, 09 Jul 2017 23:54:23 +0000

End at: Sun, 09 Jul 2017 23:54:53 +0000

Local clock offset: 0.433 ms

Remote clock offset: -1.275 ms

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Mon, 10 Jul 2017 00:14:19 +0000

End at: Mon, 10 Jul 2017 00:14:49 +0000

Local clock offset: -0.664 ms

Remote clock offset: -1.921 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.94 Mbit/s

95th percentile per-packet one-way delay: 142.487 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 11.12 Mbit/s

95th percentile per-packet one-way delay: 142.068 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 142.739 ms

Loss rate: 1.09%

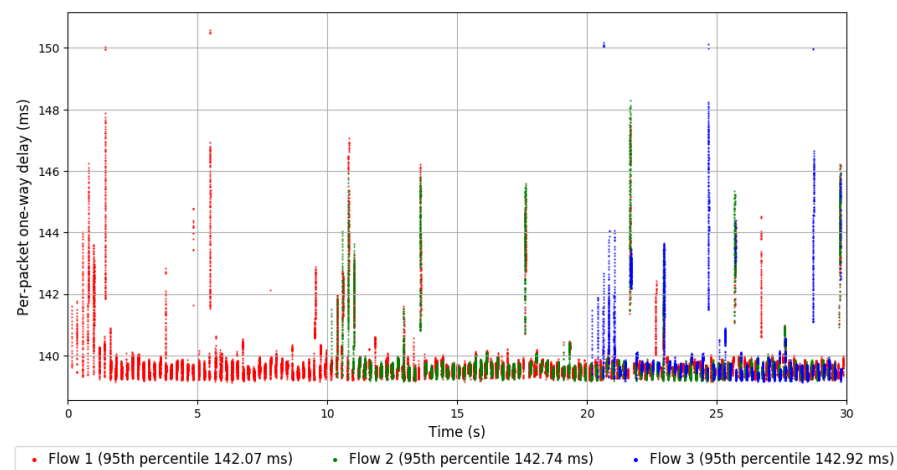
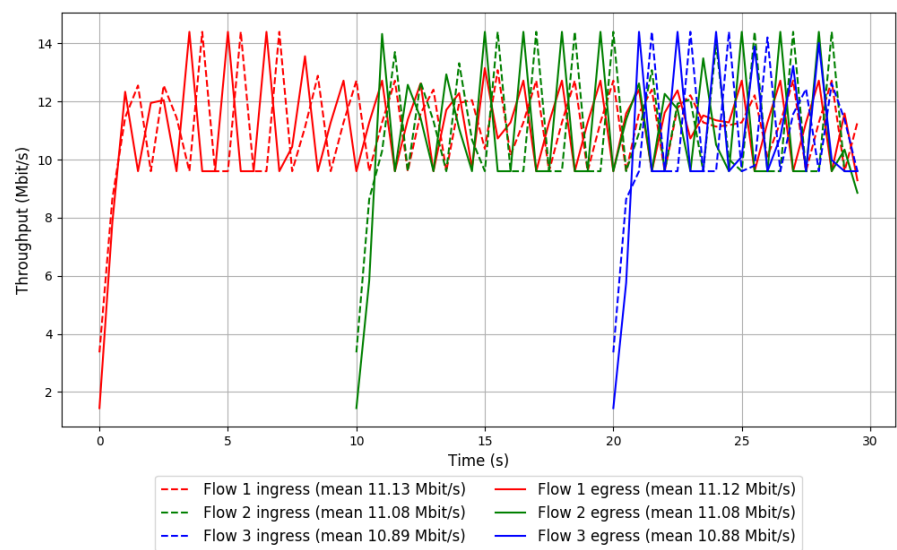
-- Flow 3:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 142.924 ms

Loss rate: 2.25%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Mon, 10 Jul 2017 00:34:26 +0000

End at: Mon, 10 Jul 2017 00:34:56 +0000

Local clock offset: -0.573 ms

Remote clock offset: -2.153 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 141.108 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 141.007 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 140.840 ms

Loss rate: 1.09%

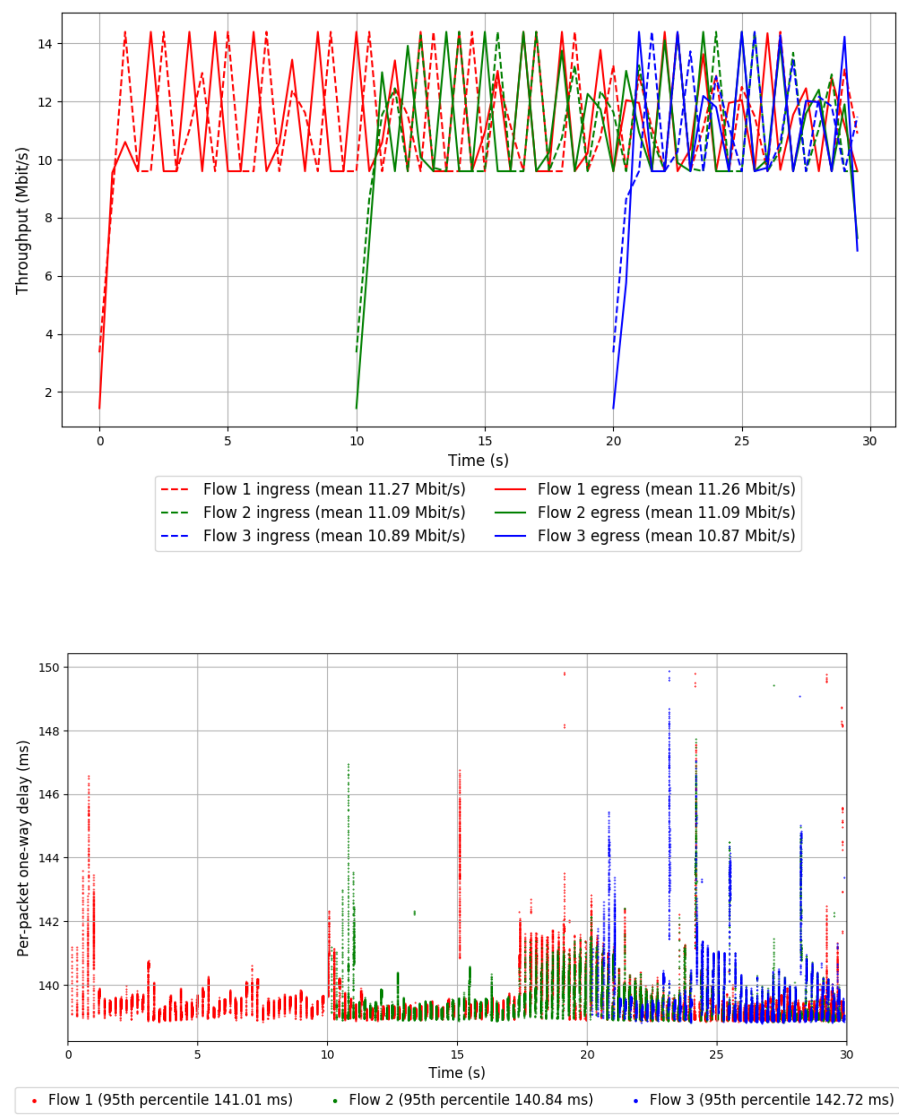
-- Flow 3:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 142.722 ms

Loss rate: 2.22%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Mon, 10 Jul 2017 00:54:25 +0000

End at: Mon, 10 Jul 2017 00:54:55 +0000

Local clock offset: -0.627 ms

Remote clock offset: -2.156 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 140.821 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 140.595 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 11.14 Mbit/s

95th percentile per-packet one-way delay: 140.802 ms

Loss rate: 1.07%

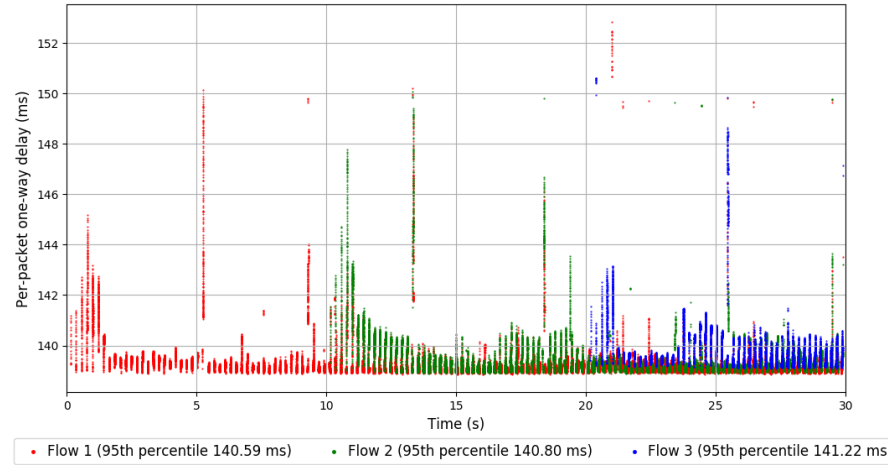
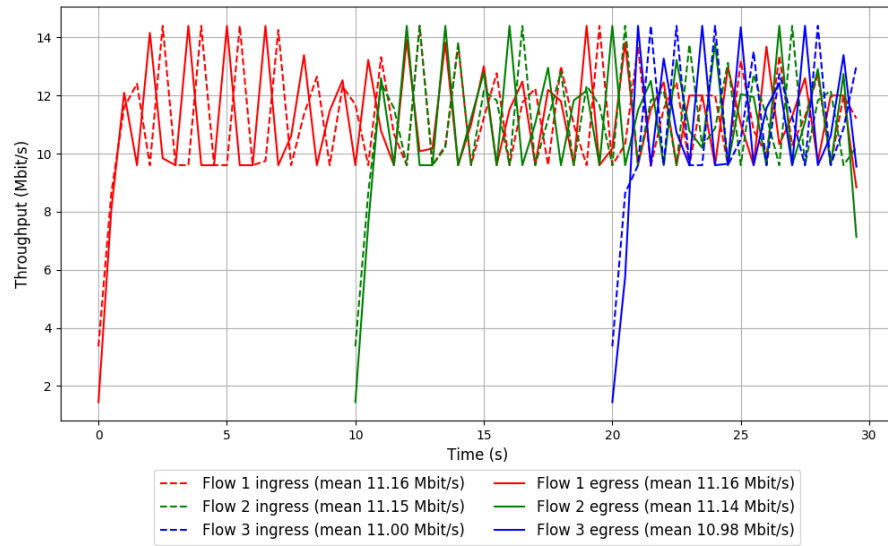
-- Flow 3:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 141.218 ms

Loss rate: 2.18%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

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

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

Local clock offset: -0.428 ms

Remote clock offset: -1.802 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 141.980 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 141.686 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 142.115 ms

Loss rate: 1.09%

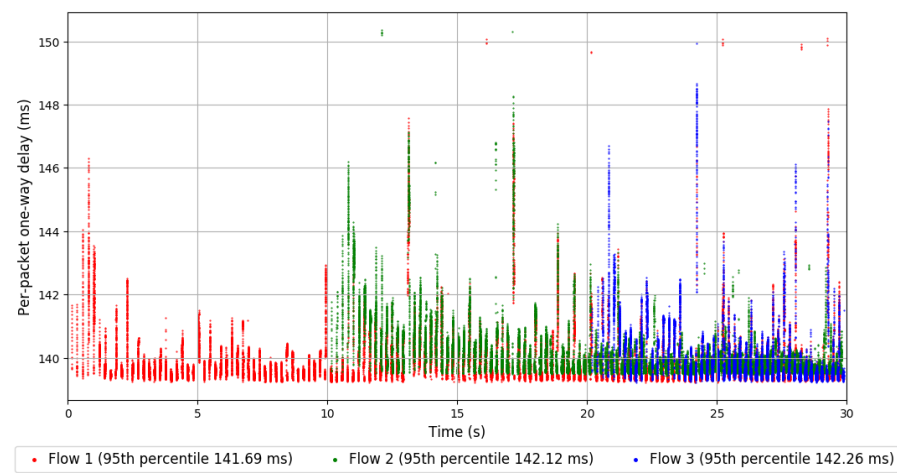
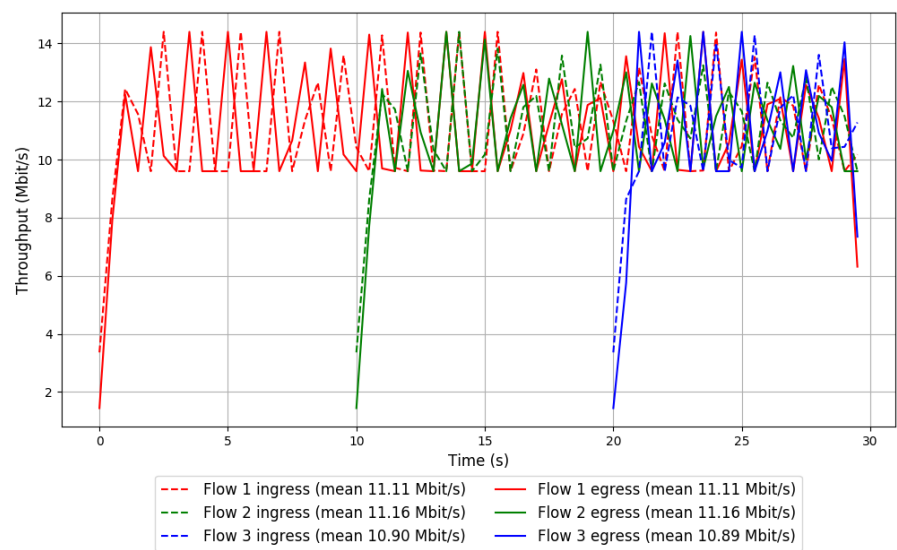
-- Flow 3:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 142.258 ms

Loss rate: 2.21%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Mon, 10 Jul 2017 01:34:14 +0000

End at: Mon, 10 Jul 2017 01:34:44 +0000

Local clock offset: -0.655 ms

Remote clock offset: -0.105 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.06 Mbit/s

95th percentile per-packet one-way delay: 143.896 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 143.702 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 143.808 ms

Loss rate: 1.11%

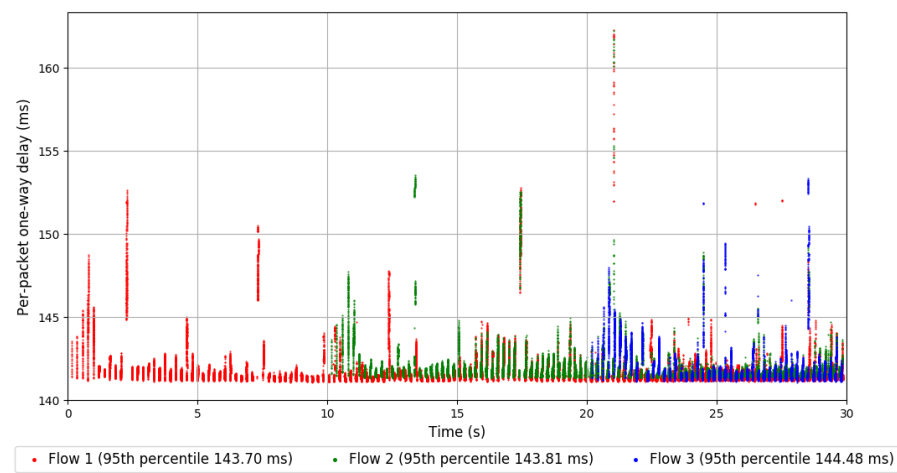
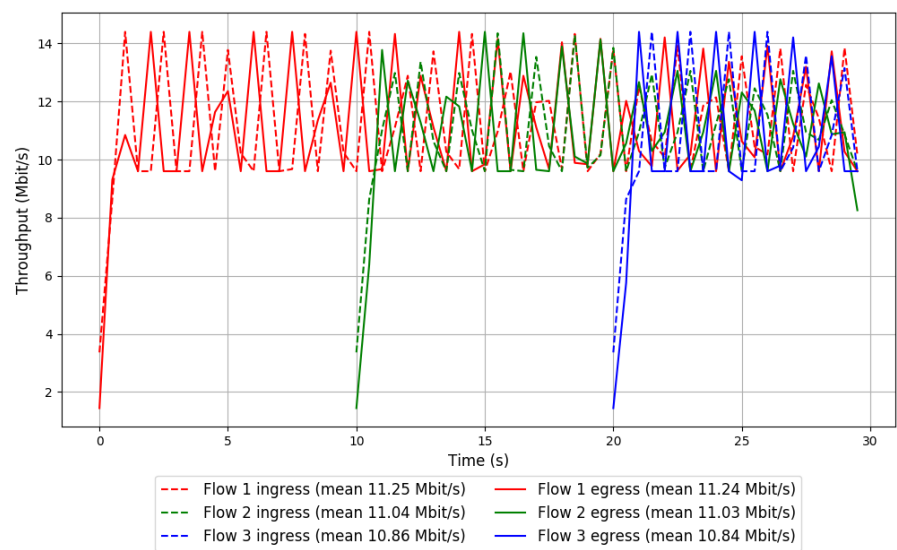
-- Flow 3:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 144.478 ms

Loss rate: 2.39%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Mon, 10 Jul 2017 01:54:11 +0000

End at: Mon, 10 Jul 2017 01:54:41 +0000

Local clock offset: 0.305 ms

Remote clock offset: -0.123 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 144.608 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 144.636 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 144.391 ms

Loss rate: 1.09%

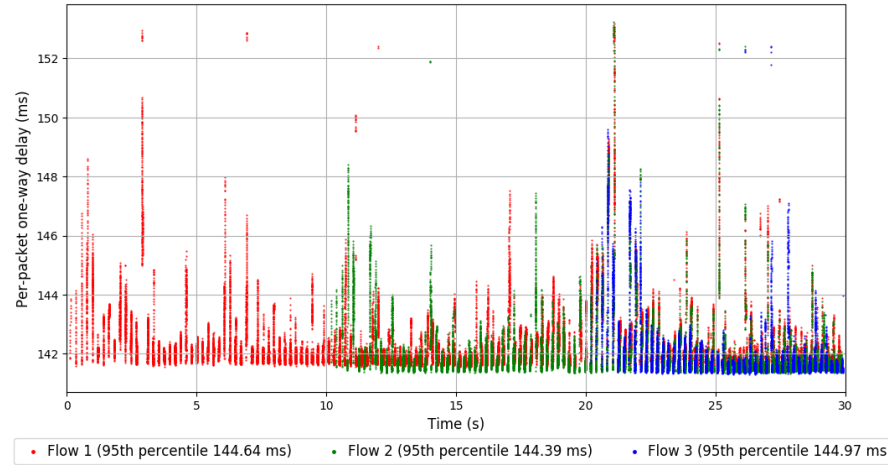
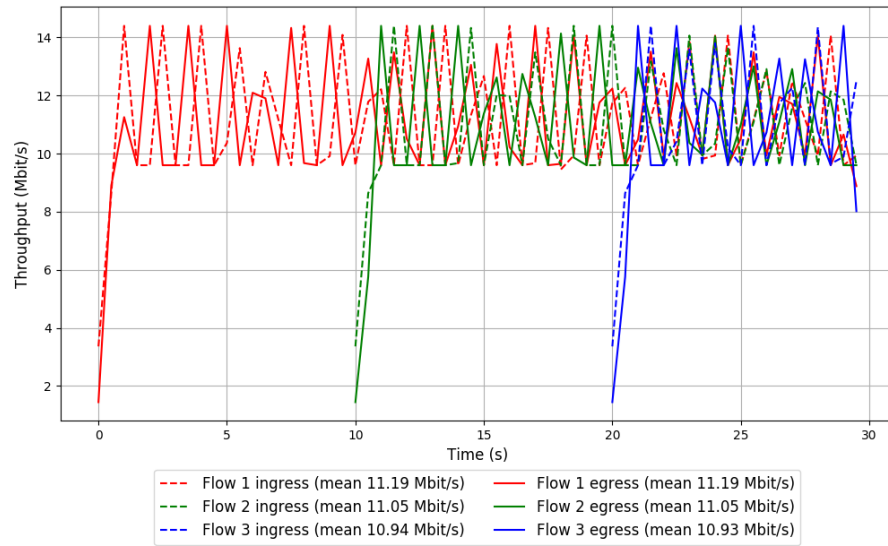
-- Flow 3:

Average throughput: 10.93 Mbit/s

95th percentile per-packet one-way delay: 144.968 ms

Loss rate: 2.20%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Mon, 10 Jul 2017 02:14:03 +0000

End at: Mon, 10 Jul 2017 02:14:33 +0000

Local clock offset: -0.913 ms

Remote clock offset: -0.326 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 143.756 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 143.360 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 144.278 ms

Loss rate: 1.22%

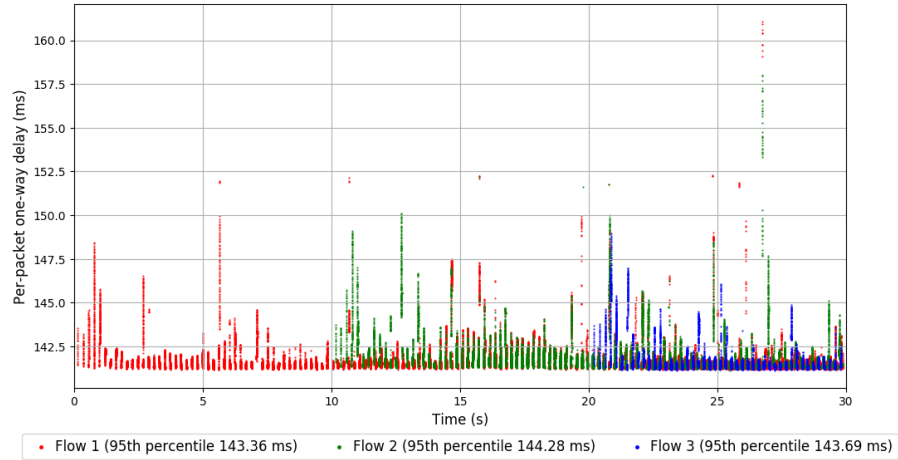
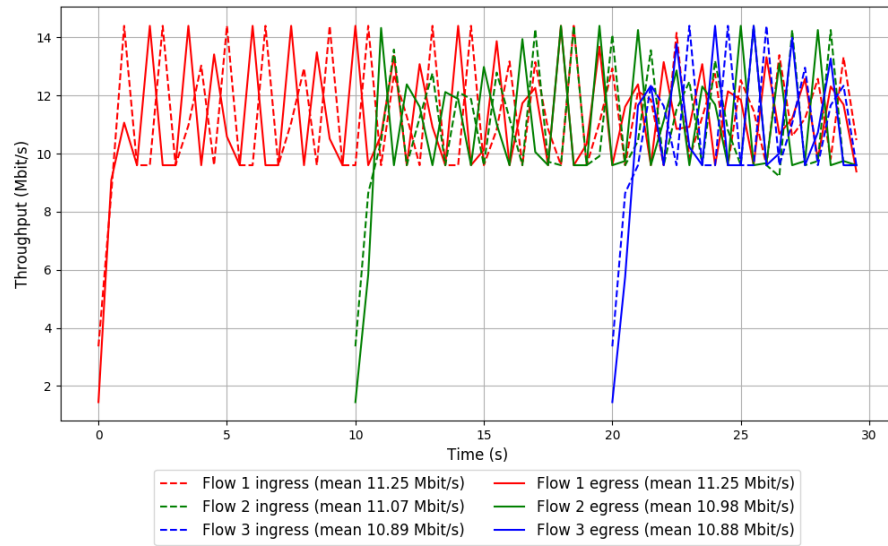
-- Flow 3:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 143.693 ms

Loss rate: 2.25%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: Mon, 10 Jul 2017 02:33:56 +0000

End at: Mon, 10 Jul 2017 02:34:26 +0000

Local clock offset: -1.108 ms

Remote clock offset: 0.485 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.94 Mbit/s

95th percentile per-packet one-way delay: 144.415 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 11.13 Mbit/s

95th percentile per-packet one-way delay: 144.332 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 144.501 ms

Loss rate: 1.09%

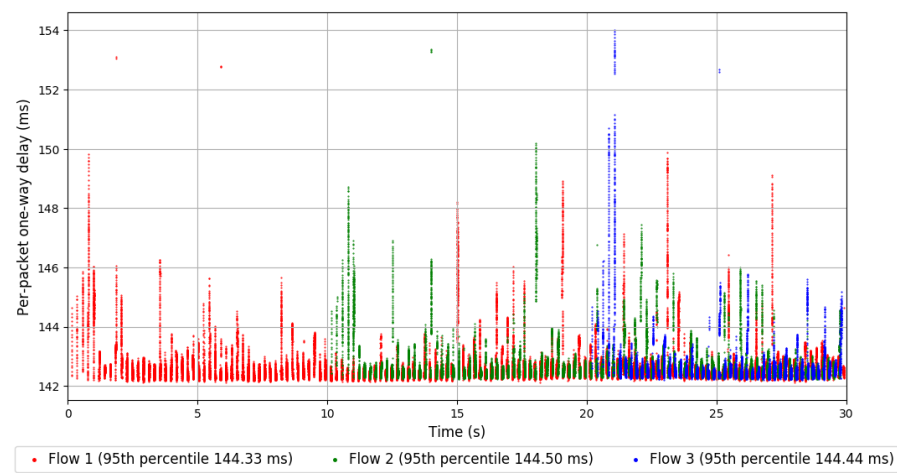
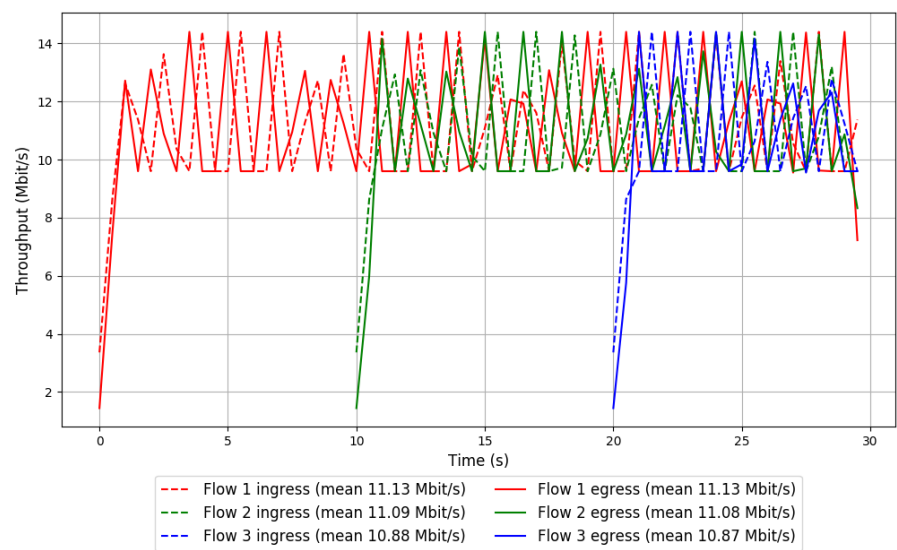
-- Flow 3:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 144.440 ms

Loss rate: 2.25%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SCReAM

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

End at: Sun, 09 Jul 2017 23:24:11 +0000

Local clock offset: -0.504 ms

Remote clock offset: -1.22 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 140.328 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.345 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.136 ms

Loss rate: 1.06%

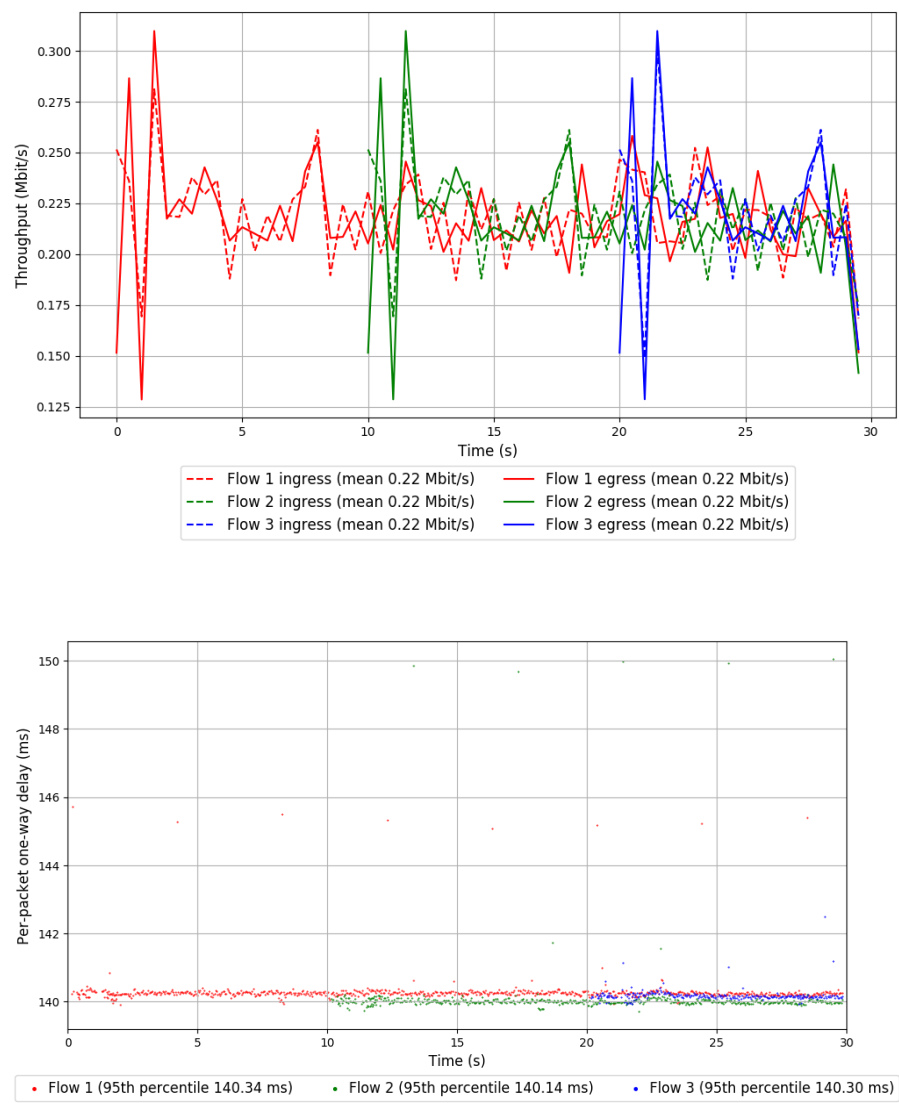
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.299 ms

Loss rate: 1.88%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: Sun, 09 Jul 2017 23:43:36 +0000

End at: Sun, 09 Jul 2017 23:44:06 +0000

Local clock offset: -0.511 ms

Remote clock offset: -0.72 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 140.897 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.767 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.933 ms

Loss rate: 1.06%

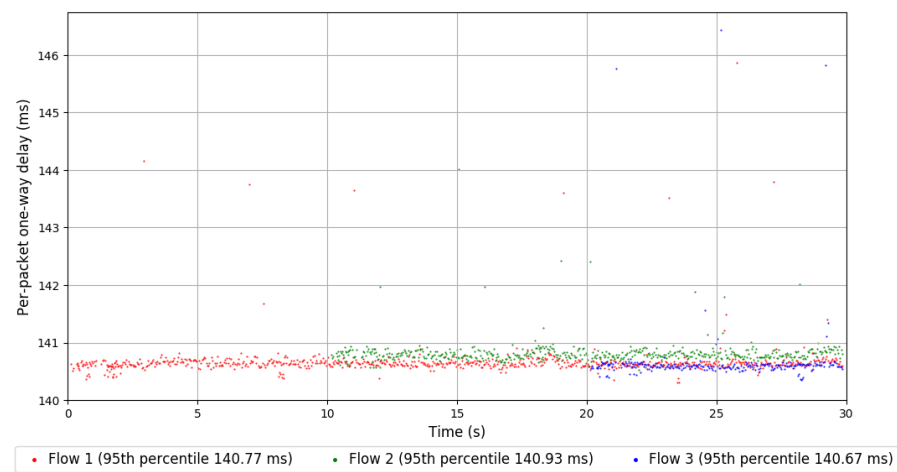
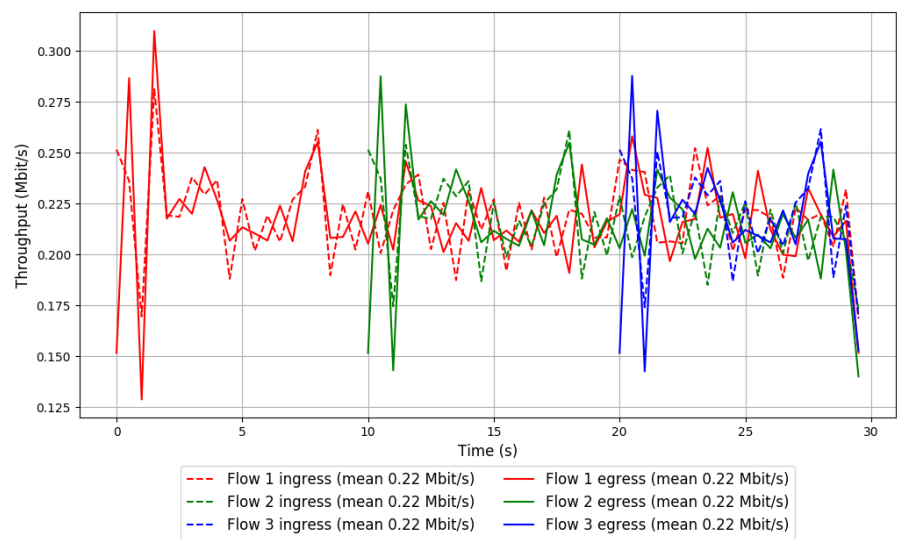
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.674 ms

Loss rate: 1.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

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

End at: Mon, 10 Jul 2017 00:04:03 +0000

Local clock offset: -0.555 ms

Remote clock offset: -1.864 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 139.942 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.966 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.738 ms

Loss rate: 1.06%

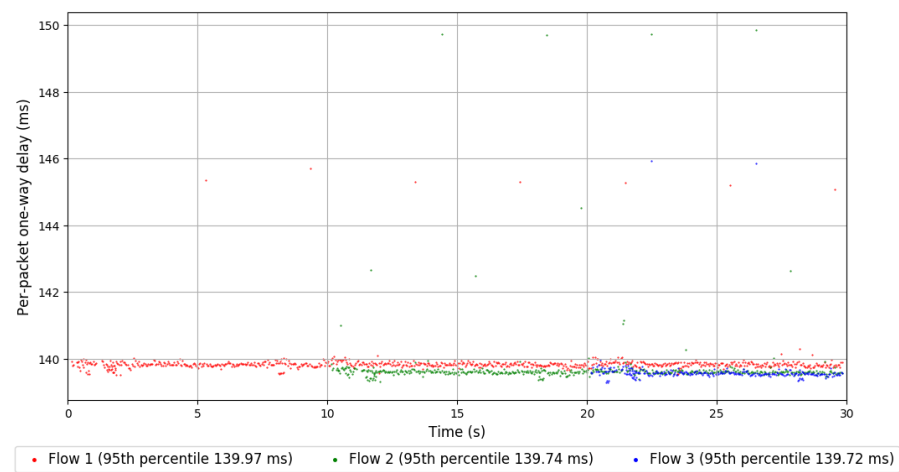
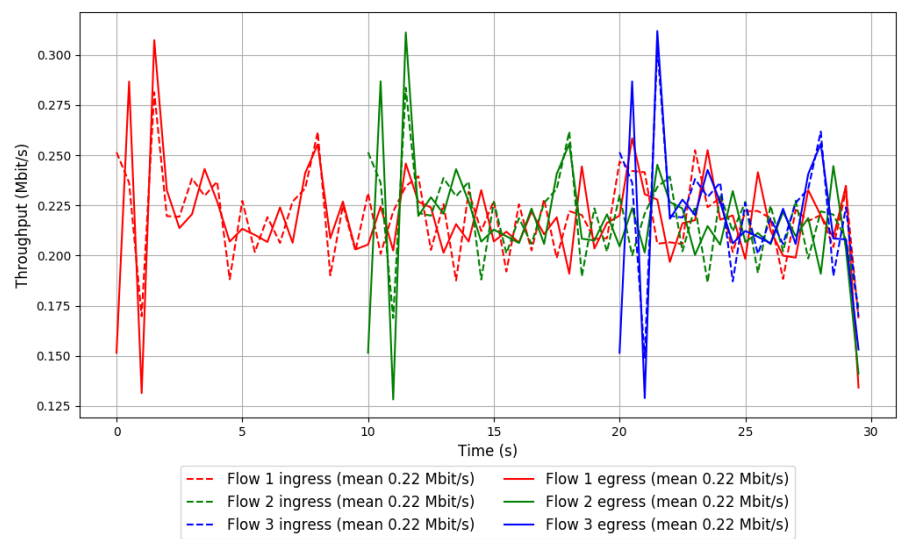
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.718 ms

Loss rate: 1.88%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: Mon, 10 Jul 2017 00:23:27 +0000

End at: Mon, 10 Jul 2017 00:23:57 +0000

Local clock offset: 0.588 ms

Remote clock offset: -2.212 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 139.451 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.304 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.491 ms

Loss rate: 1.06%

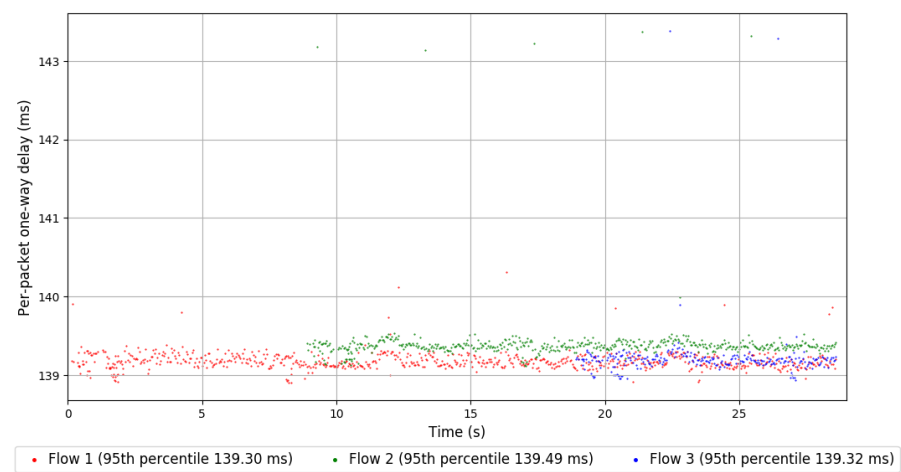
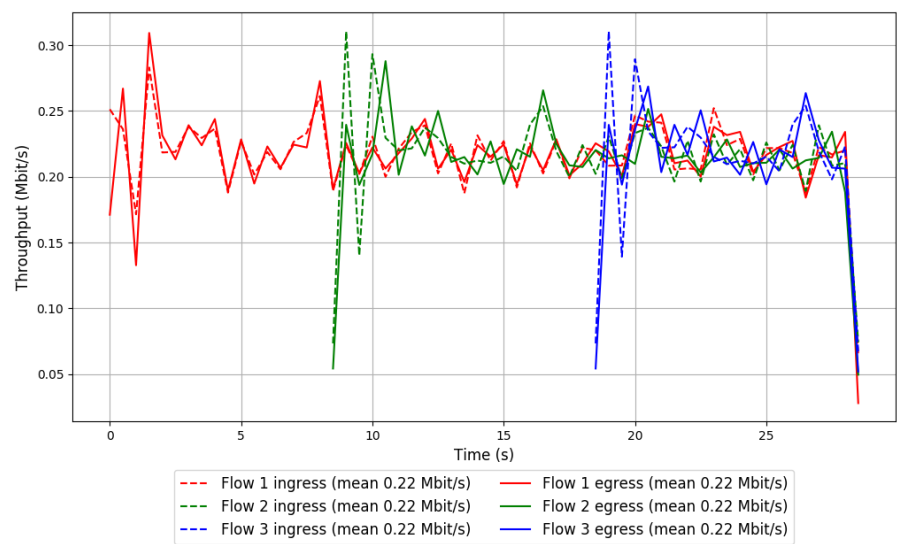
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.317 ms

Loss rate: 1.88%

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SReAM

Start at: Mon, 10 Jul 2017 00:43:38 +0000

End at: Mon, 10 Jul 2017 00:44:08 +0000

Local clock offset: 0.59 ms

Remote clock offset: -2.363 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 139.404 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.424 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.174 ms

Loss rate: 1.06%

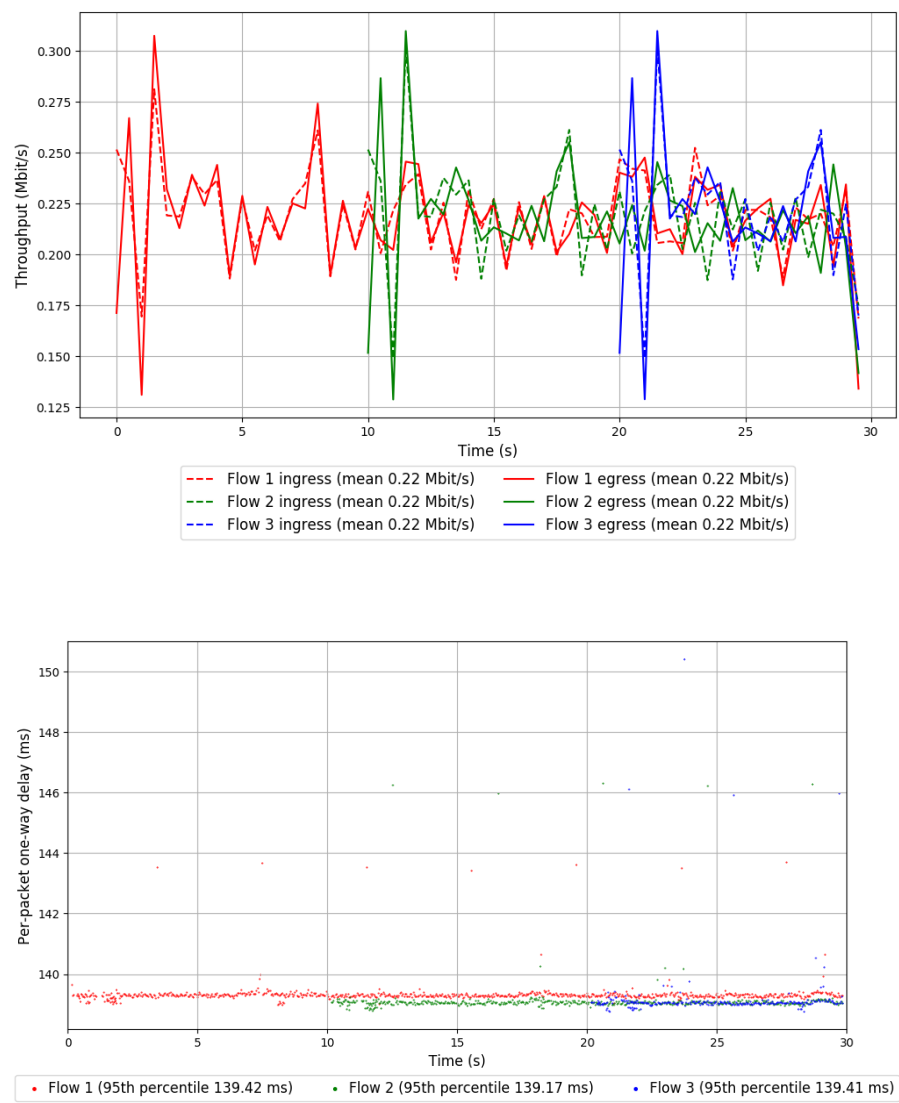
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.411 ms

Loss rate: 1.88%

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SReAM

Start at: Mon, 10 Jul 2017 01:03:33 +0000

End at: Mon, 10 Jul 2017 01:04:03 +0000

Local clock offset: -0.557 ms

Remote clock offset: -2.045 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 139.613 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.554 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.646 ms

Loss rate: 1.06%

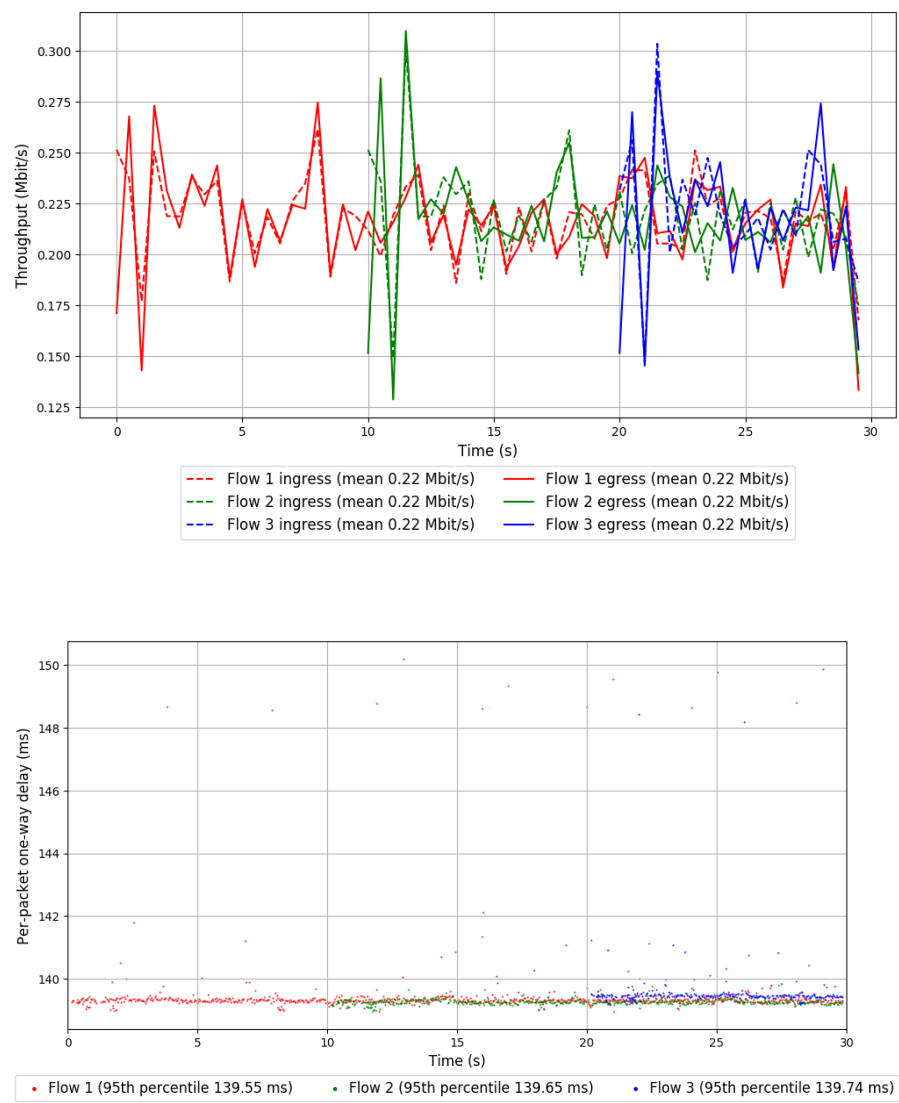
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.735 ms

Loss rate: 1.88%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: Mon, 10 Jul 2017 01:23:36 +0000

End at: Mon, 10 Jul 2017 01:24:06 +0000

Local clock offset: 0.675 ms

Remote clock offset: -1.692 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 140.070 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.196 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.036 ms

Loss rate: 1.05%

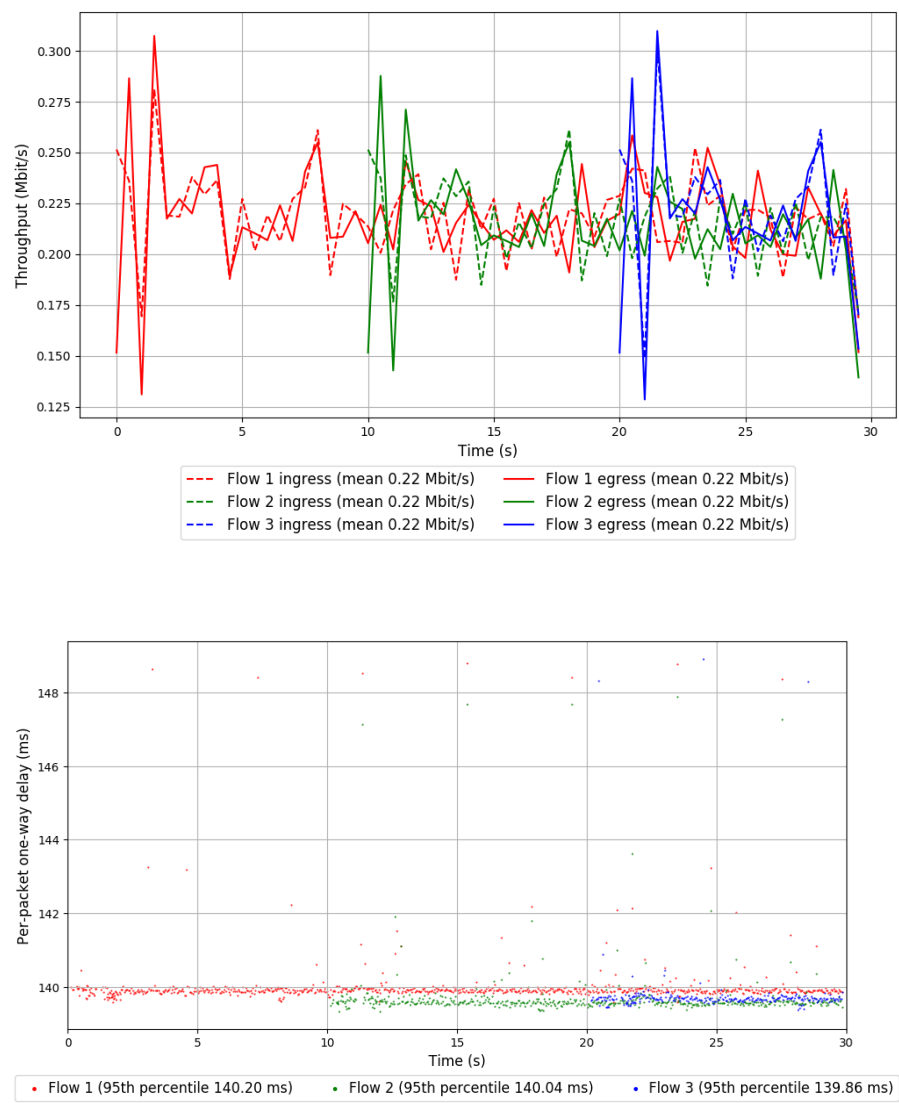
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 139.857 ms

Loss rate: 1.88%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: Mon, 10 Jul 2017 01:43:31 +0000

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

Local clock offset: -0.719 ms

Remote clock offset: -0.075 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 141.767 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.647 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.764 ms

Loss rate: 1.06%

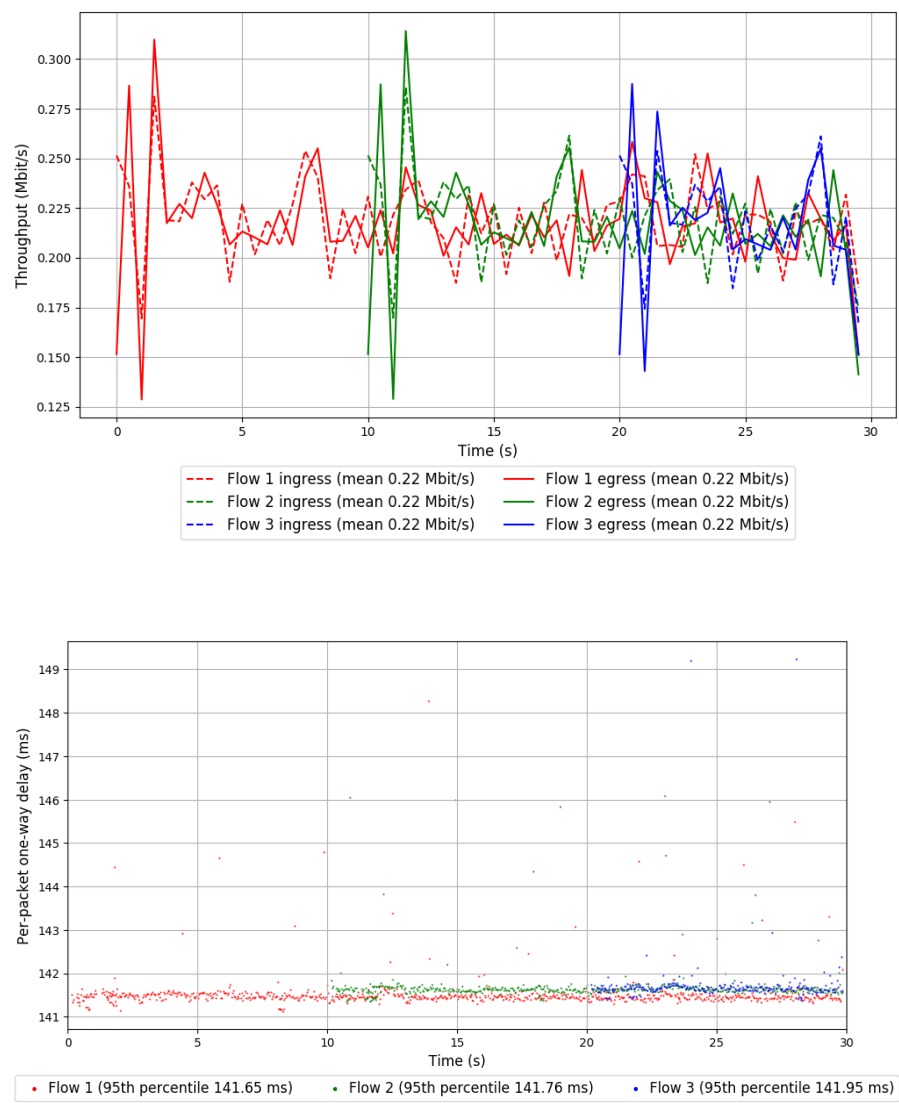
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.948 ms

Loss rate: 1.88%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: Mon, 10 Jul 2017 02:03:18 +0000

End at: Mon, 10 Jul 2017 02:03:48 +0000

Local clock offset: -0.92 ms

Remote clock offset: -0.266 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:06:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 141.800 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.860 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.639 ms

Loss rate: 1.06%

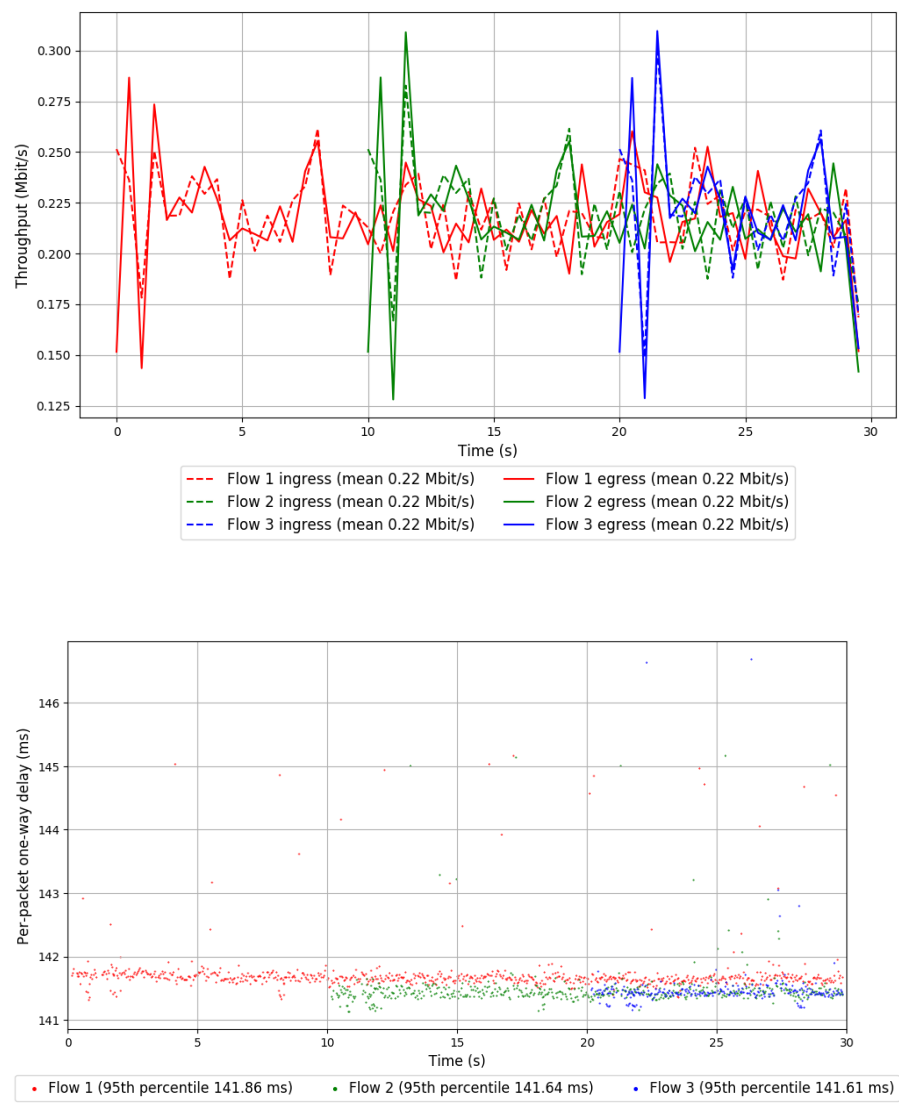
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.608 ms

Loss rate: 1.88%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: Mon, 10 Jul 2017 02:23:12 +0000

End at: Mon, 10 Jul 2017 02:23:42 +0000

Local clock offset: -1.079 ms

Remote clock offset: -0.446 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 141.875 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.787 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 141.902 ms

Loss rate: 1.06%

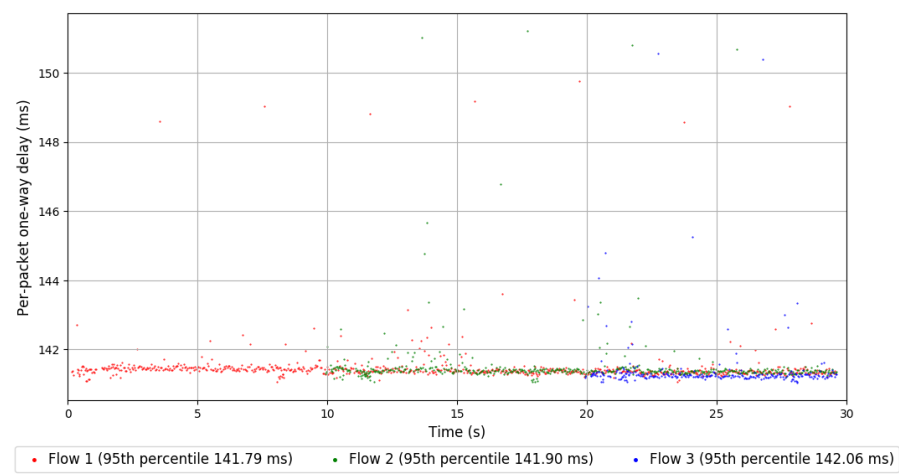
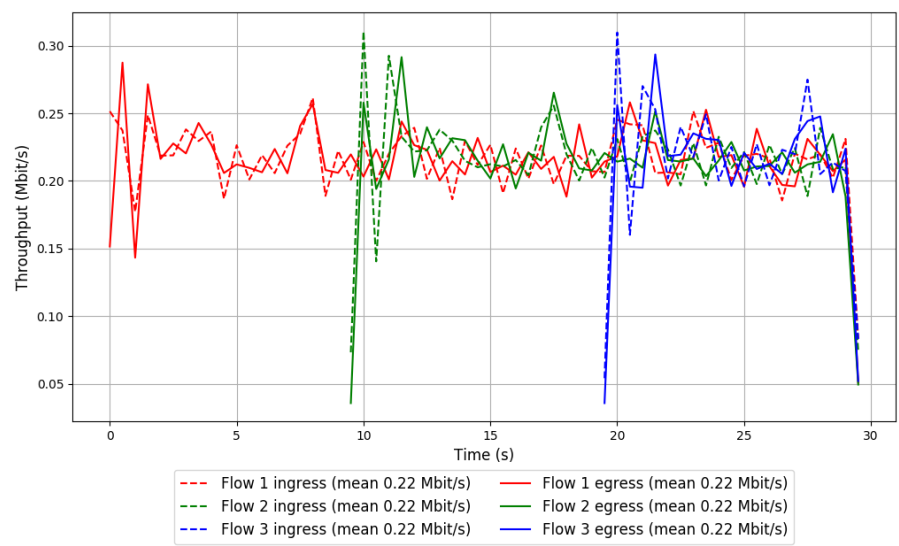
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 142.060 ms

Loss rate: 1.88%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Sun, 09 Jul 2017 23:19:47 +0000

End at: Sun, 09 Jul 2017 23:20:17 +0000

Local clock offset: 0.677 ms

Remote clock offset: -1.328 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 141.732 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 141.943 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 141.008 ms

Loss rate: 0.79%

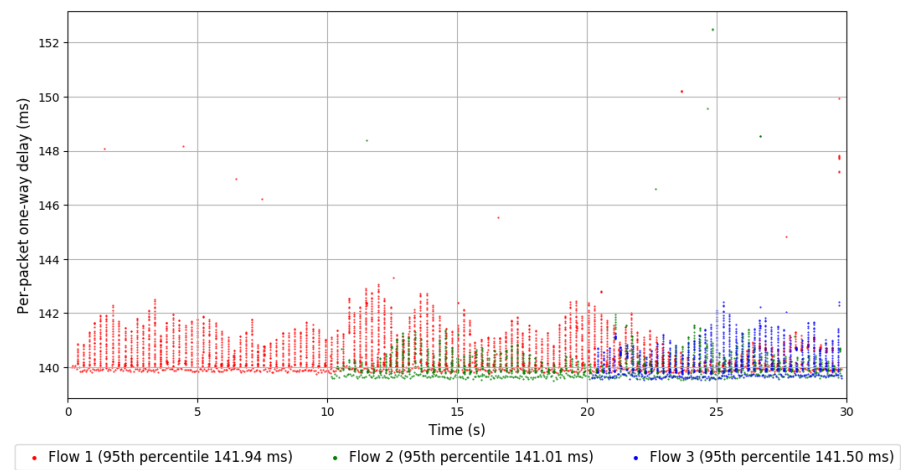
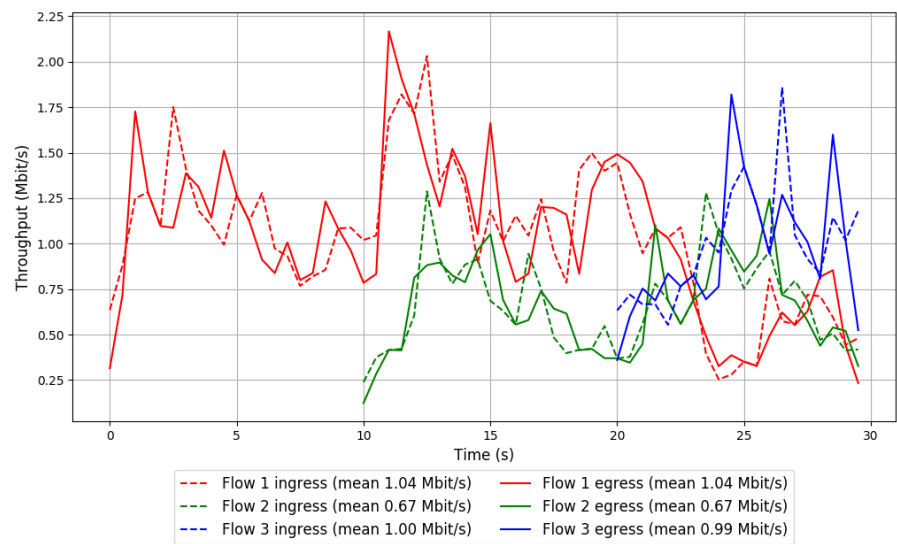
-- Flow 3:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 141.498 ms

Loss rate: 3.36%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Sun, 09 Jul 2017 23:39:42 +0000

End at: Sun, 09 Jul 2017 23:40:12 +0000

Local clock offset: -0.65 ms

Remote clock offset: -0.785 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 142.409 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 142.536 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 142.248 ms

Loss rate: 1.68%

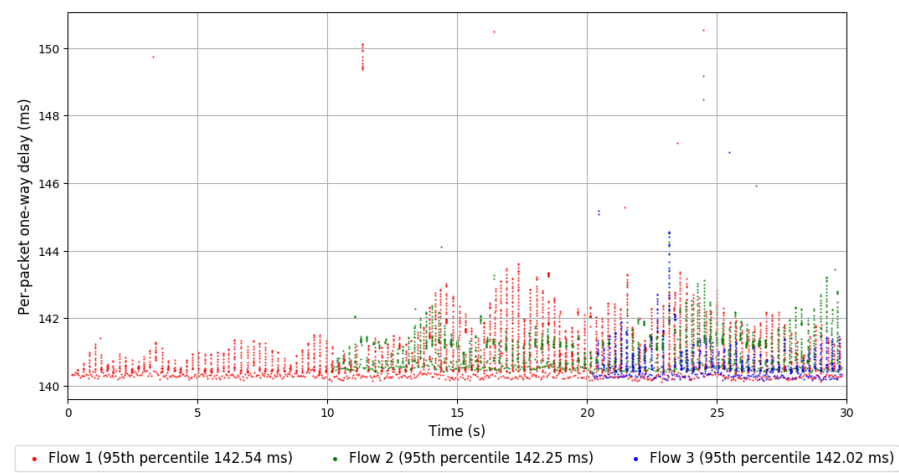
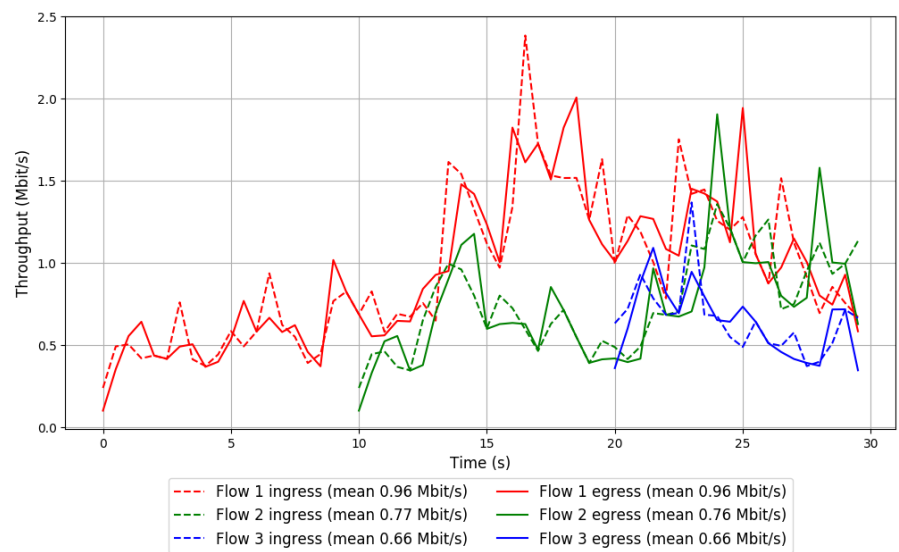
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 142.017 ms

Loss rate: 2.45%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Sun, 09 Jul 2017 23:59:40 +0000

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

Local clock offset: 0.482 ms

Remote clock offset: -1.639 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 141.201 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 140.918 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 141.946 ms

Loss rate: 1.13%

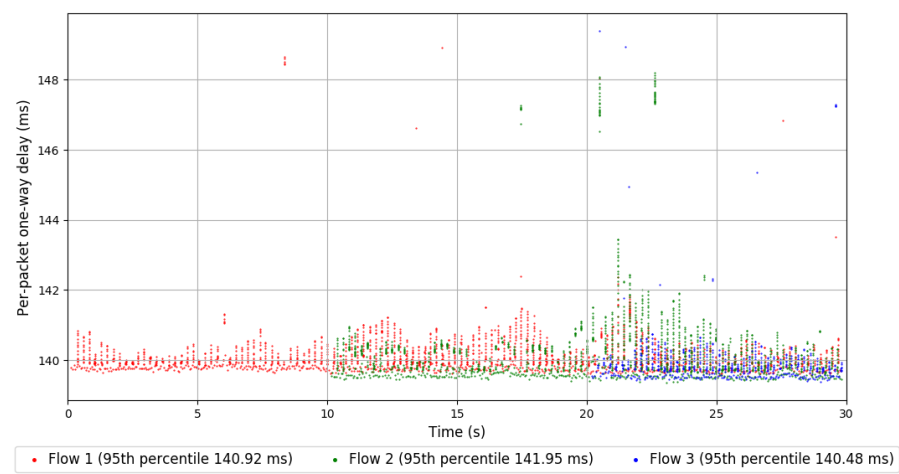
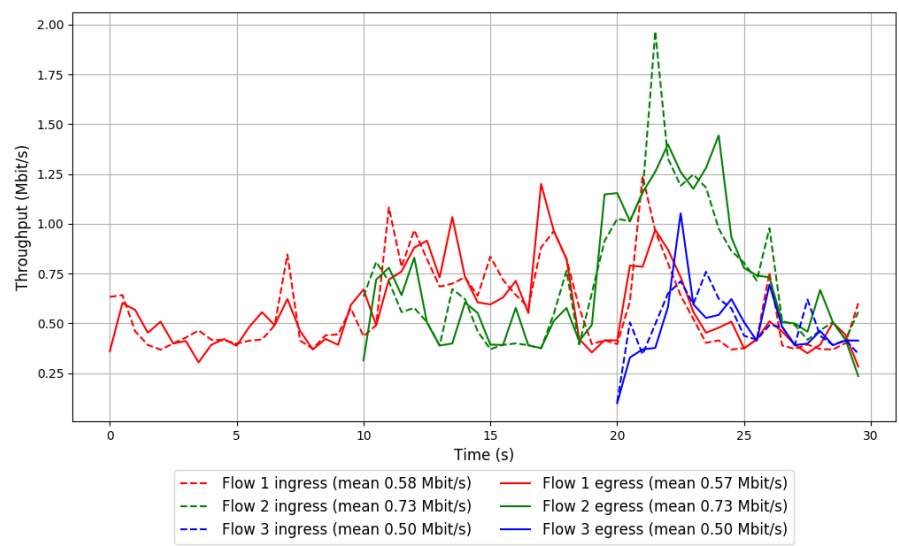
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 140.484 ms

Loss rate: 1.43%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: Mon, 10 Jul 2017 00:19:33 +0000

End at: Mon, 10 Jul 2017 00:20:03 +0000

Local clock offset: 0.713 ms

Remote clock offset: -2.082 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 140.347 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 140.314 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 140.309 ms

Loss rate: 0.77%

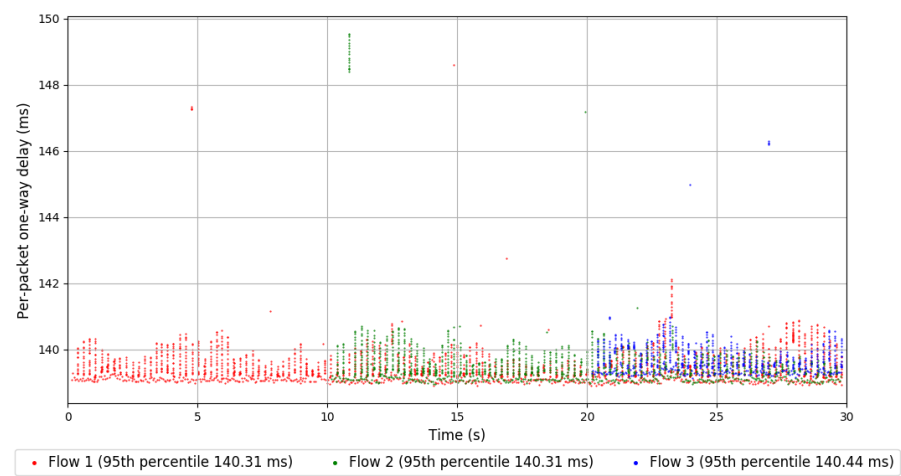
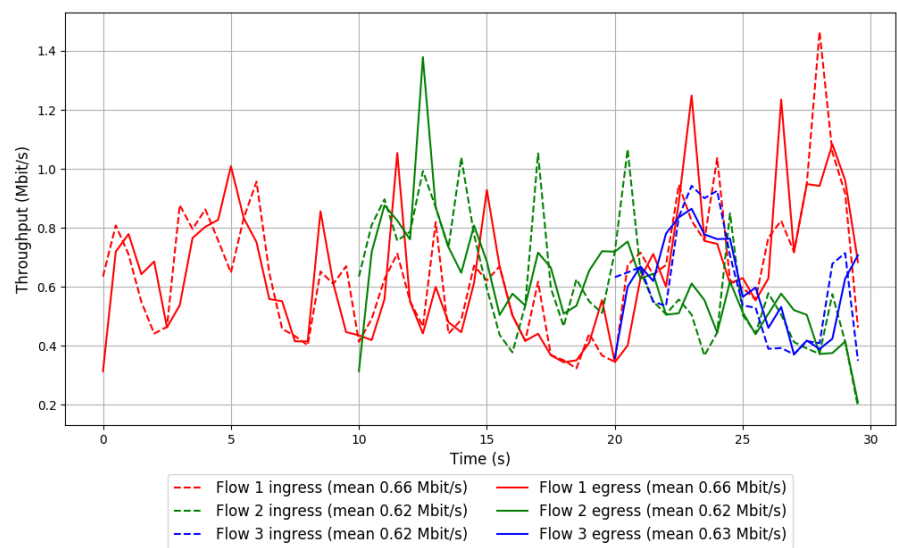
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 140.436 ms

Loss rate: 0.05%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: Mon, 10 Jul 2017 00:39:40 +0000

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

Local clock offset: -0.658 ms

Remote clock offset: -2.351 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 140.322 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 139.876 ms

Loss rate: 1.74%

-- Flow 2:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 140.641 ms

Loss rate: 0.78%

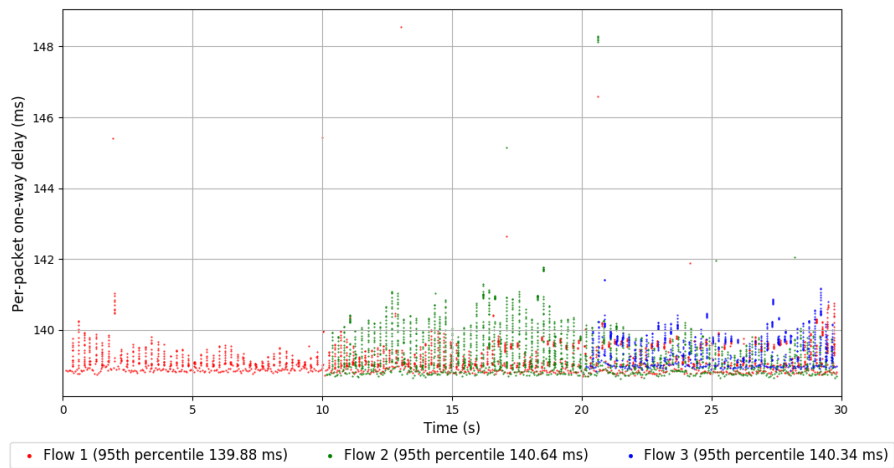
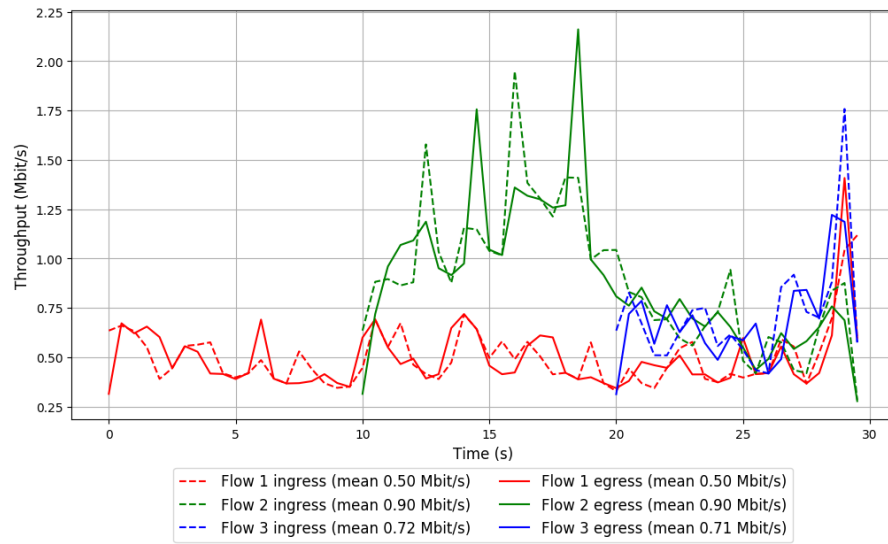
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 140.342 ms

Loss rate: 4.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Mon, 10 Jul 2017 00:59:40 +0000

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

Local clock offset: 0.634 ms

Remote clock offset: -2.195 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 140.705 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 140.869 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 140.360 ms

Loss rate: 0.02%

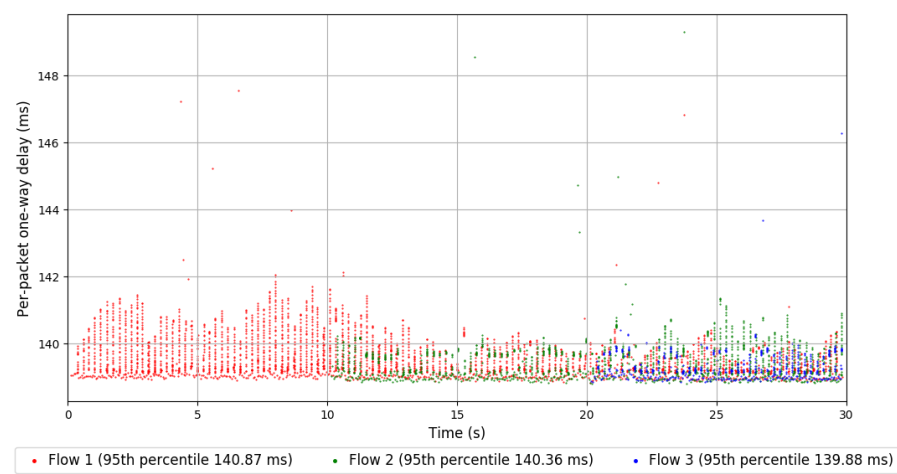
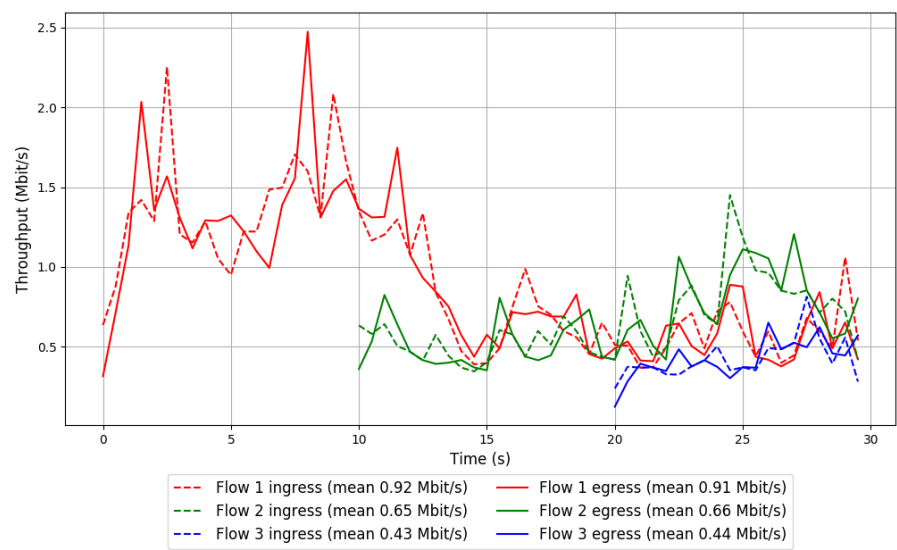
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 139.883 ms

Loss rate: 0.07%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: Mon, 10 Jul 2017 01:19:38 +0000

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

Local clock offset: -0.562 ms

Remote clock offset: -1.801 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 141.366 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 141.558 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 140.557 ms

Loss rate: 1.17%

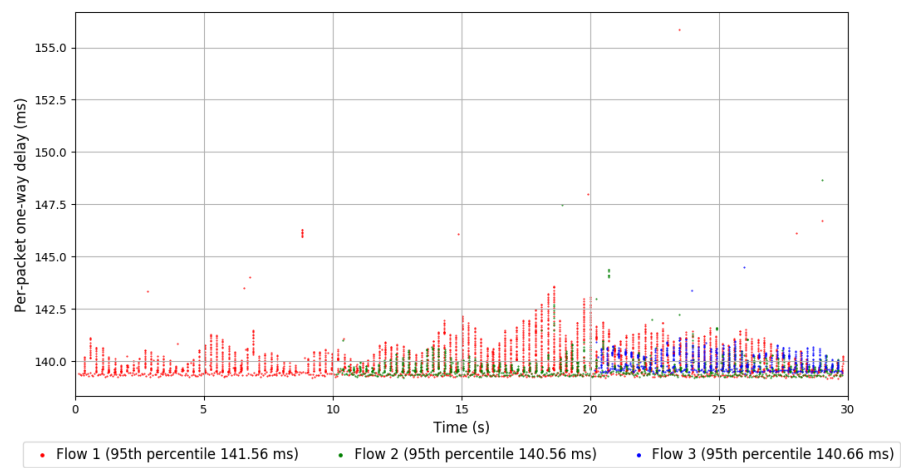
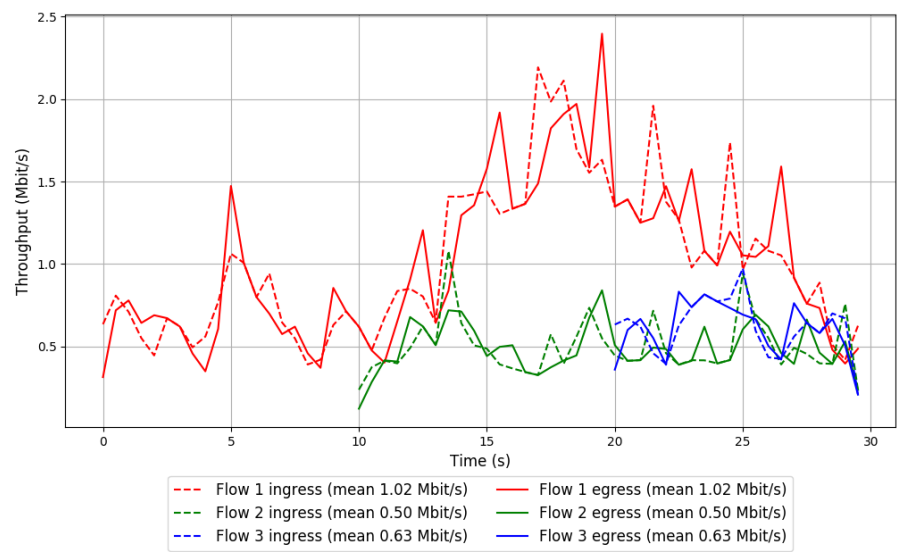
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 140.665 ms

Loss rate: 1.66%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Mon, 10 Jul 2017 01:39:33 +0000

End at: Mon, 10 Jul 2017 01:40:03 +0000

Local clock offset: -0.639 ms

Remote clock offset: 0.012 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 142.940 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 142.815 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 142.654 ms

Loss rate: 1.54%

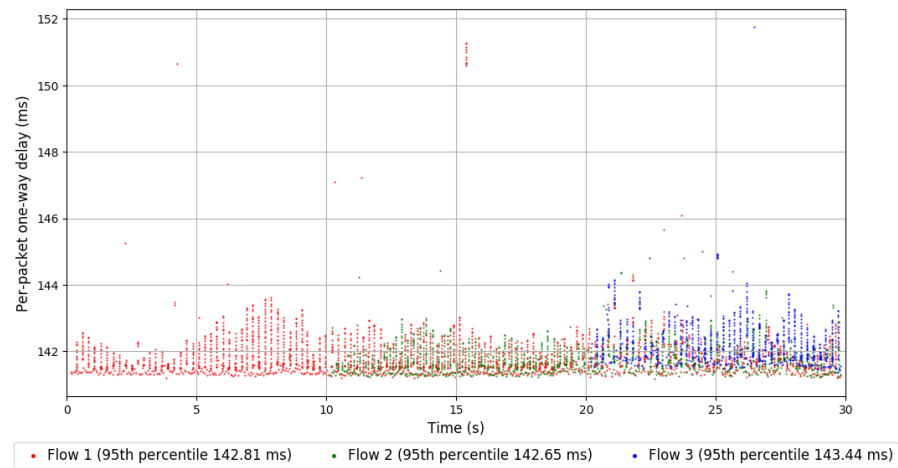
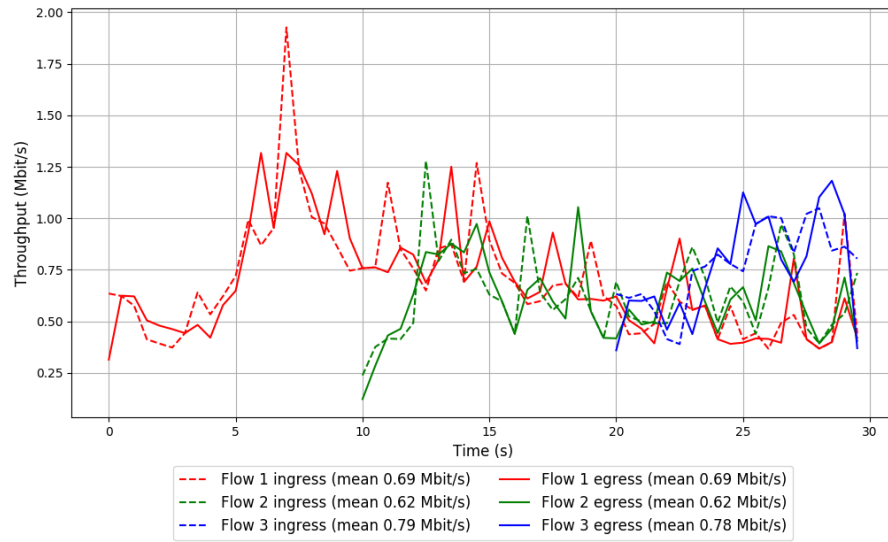
-- Flow 3:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 143.438 ms

Loss rate: 2.83%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Mon, 10 Jul 2017 01:59:25 +0000

End at: Mon, 10 Jul 2017 01:59:55 +0000

Local clock offset: -0.873 ms

Remote clock offset: -0.09 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 142.446 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 142.326 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 142.351 ms

Loss rate: 0.83%

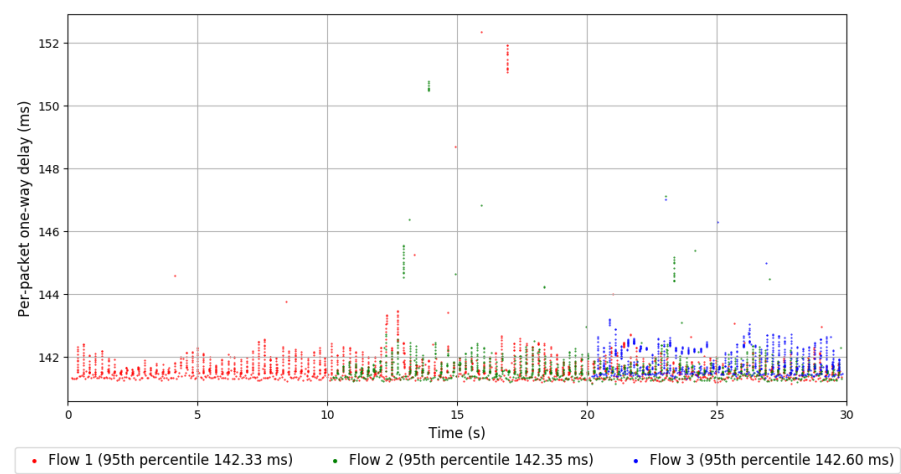
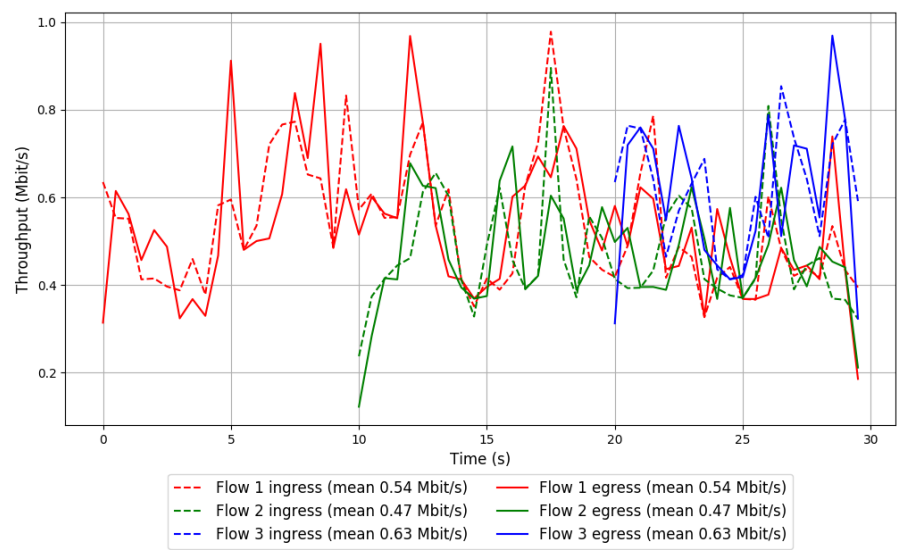
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 142.601 ms

Loss rate: 2.21%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Mon, 10 Jul 2017 02:19:18 +0000

End at: Mon, 10 Jul 2017 02:19:48 +0000

Local clock offset: -1.076 ms

Remote clock offset: -0.396 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 142.520 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 142.553 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 142.475 ms

Loss rate: 1.14%

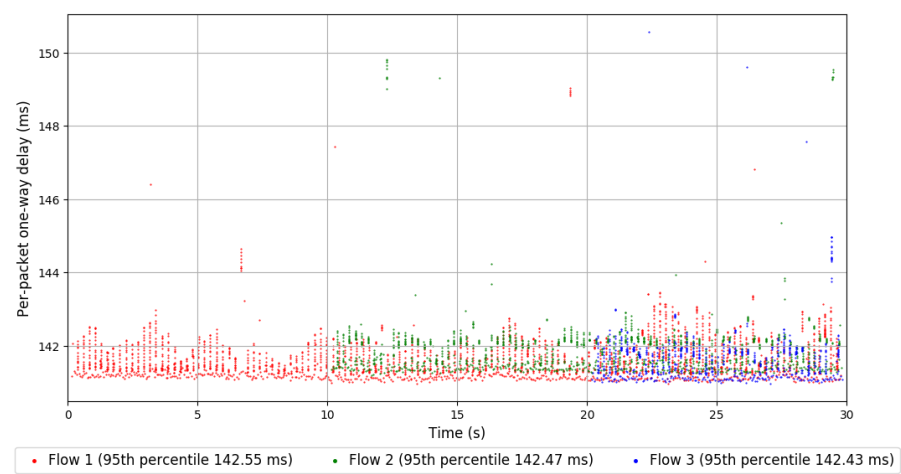
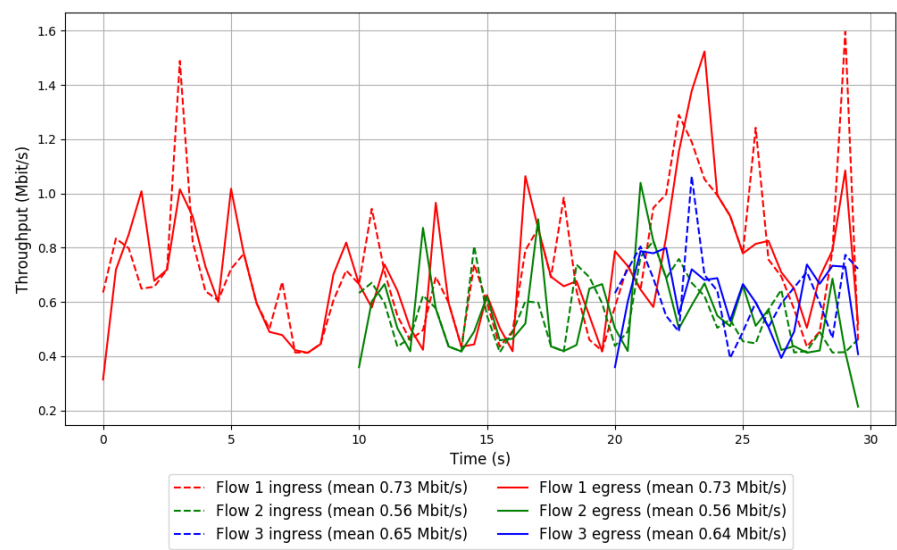
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 142.431 ms

Loss rate: 2.84%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Sun, 09 Jul 2017 23:27:35 +0000

End at: Sun, 09 Jul 2017 23:28:05 +0000

Local clock offset: -0.43 ms

Remote clock offset: -1.161 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.78 Mbit/s

95th percentile per-packet one-way delay: 164.130 ms

Loss rate: 6.21%

-- Flow 1:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 162.264 ms

Loss rate: 4.36%

-- Flow 2:

Average throughput: 32.16 Mbit/s

95th percentile per-packet one-way delay: 165.037 ms

Loss rate: 6.93%

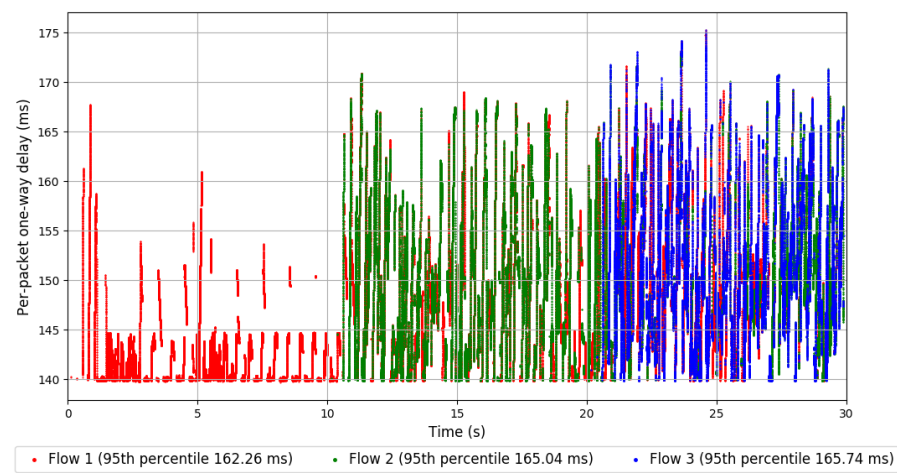
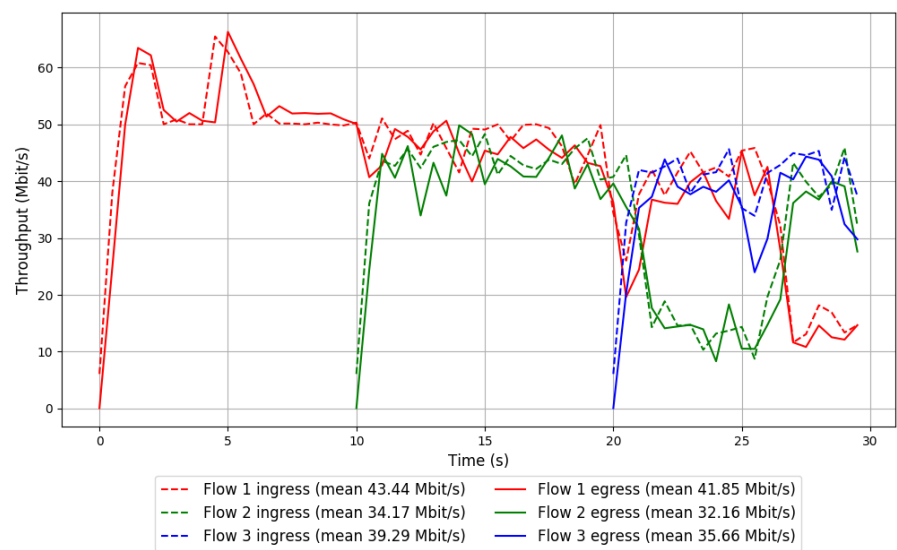
-- Flow 3:

Average throughput: 35.66 Mbit/s

95th percentile per-packet one-way delay: 165.739 ms

Loss rate: 11.12%

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



Run 2: Statistics of TaoVA-100x

Start at: Sun, 09 Jul 2017 23:47:31 +0000

End at: Sun, 09 Jul 2017 23:48:01 +0000

Local clock offset: -0.593 ms

Remote clock offset: -0.866 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 164.130 ms

Loss rate: 6.39%

-- Flow 1:

Average throughput: 46.10 Mbit/s

95th percentile per-packet one-way delay: 162.990 ms

Loss rate: 4.66%

-- Flow 2:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 165.482 ms

Loss rate: 8.20%

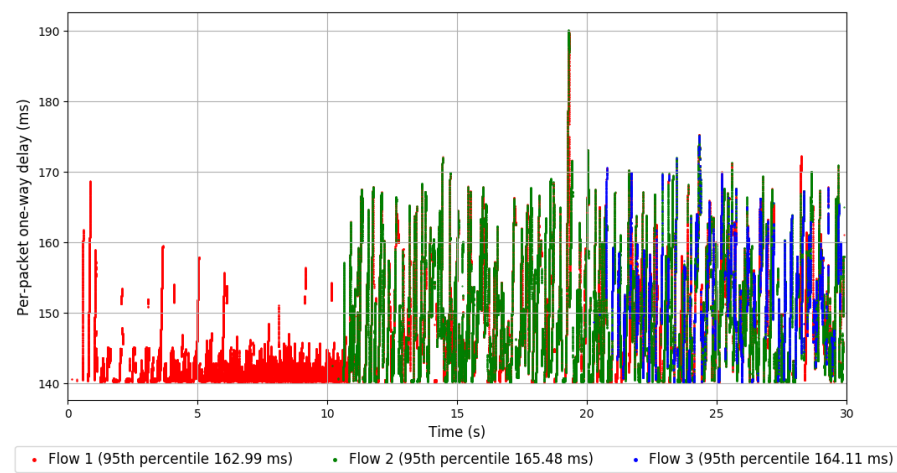
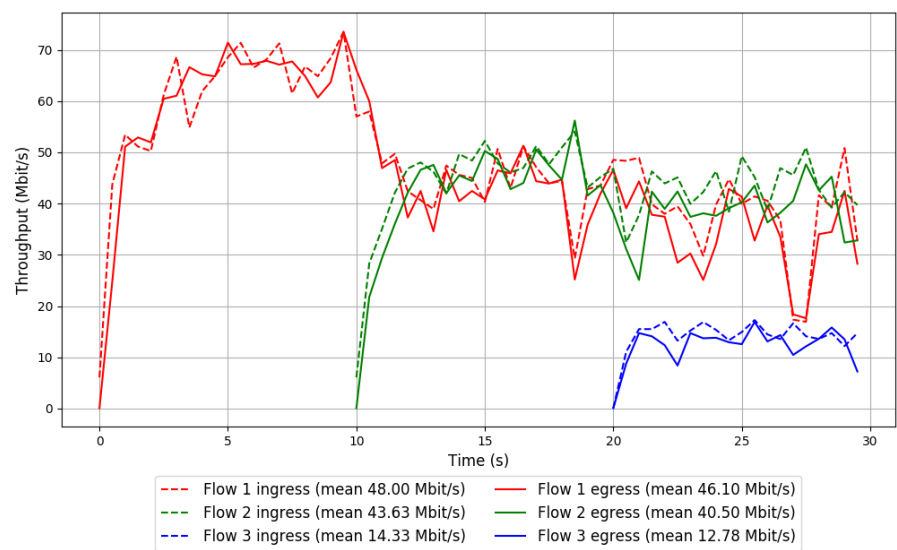
-- Flow 3:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 164.109 ms

Loss rate: 12.88%

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



Run 3: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 00:07:29 +0000

End at: Mon, 10 Jul 2017 00:07:59 +0000

Local clock offset: -0.416 ms

Remote clock offset: -1.932 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:07:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 163.386 ms

Loss rate: 4.85%

-- Flow 1:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 163.030 ms

Loss rate: 3.69%

-- Flow 2:

Average throughput: 41.07 Mbit/s

95th percentile per-packet one-way delay: 163.971 ms

Loss rate: 6.78%

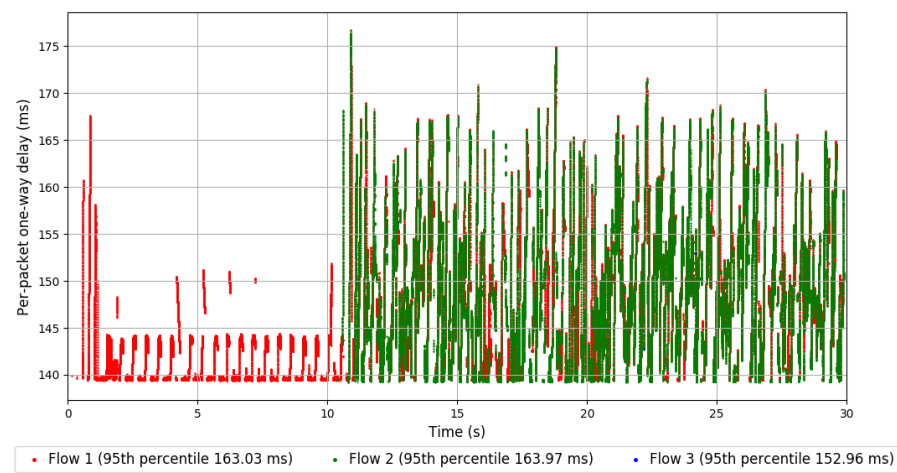
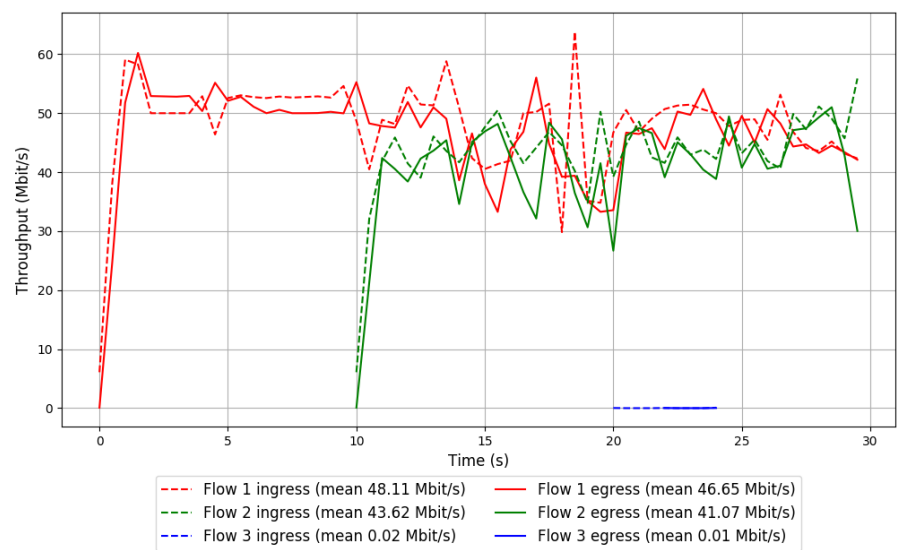
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 152.955 ms

Loss rate: 60.00%

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



Run 4: Statistics of TaoVA-100x

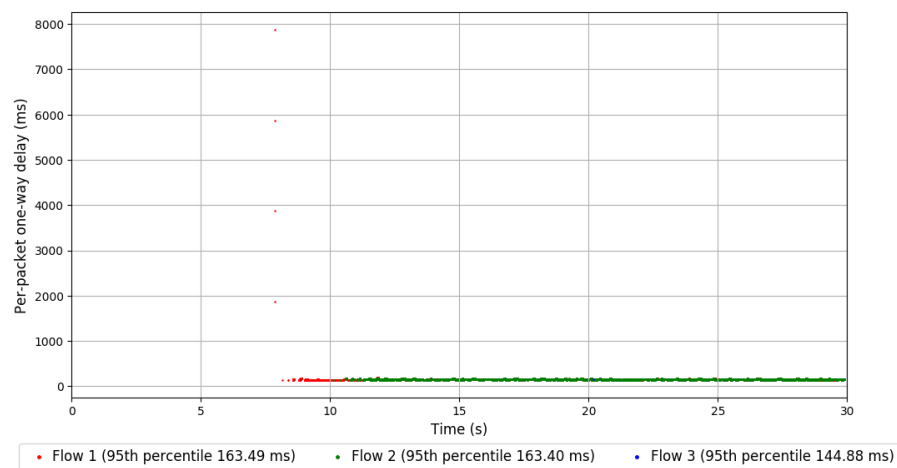
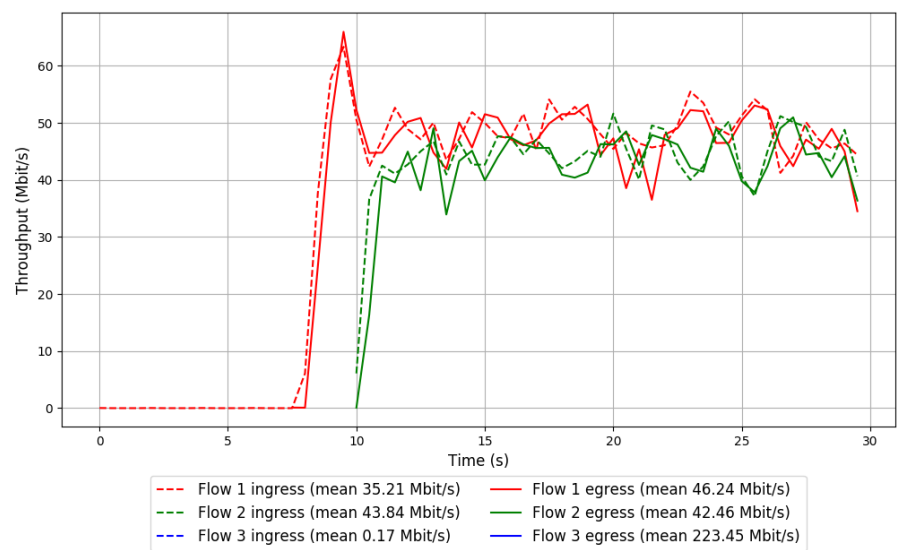
Start at: Mon, 10 Jul 2017 00:27:26 +0000

End at: Mon, 10 Jul 2017 00:27:56 +0000

Local clock offset: -0.587 ms

Remote clock offset: -2.252 ms

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



Run 5: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 00:47:36 +0000

End at: Mon, 10 Jul 2017 00:48:06 +0000

Local clock offset: -0.661 ms

Remote clock offset: -2.313 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 162.235 ms

Loss rate: 7.56%

-- Flow 1:

Average throughput: 49.22 Mbit/s

95th percentile per-packet one-way delay: 161.034 ms

Loss rate: 4.98%

-- Flow 2:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 163.077 ms

Loss rate: 10.62%

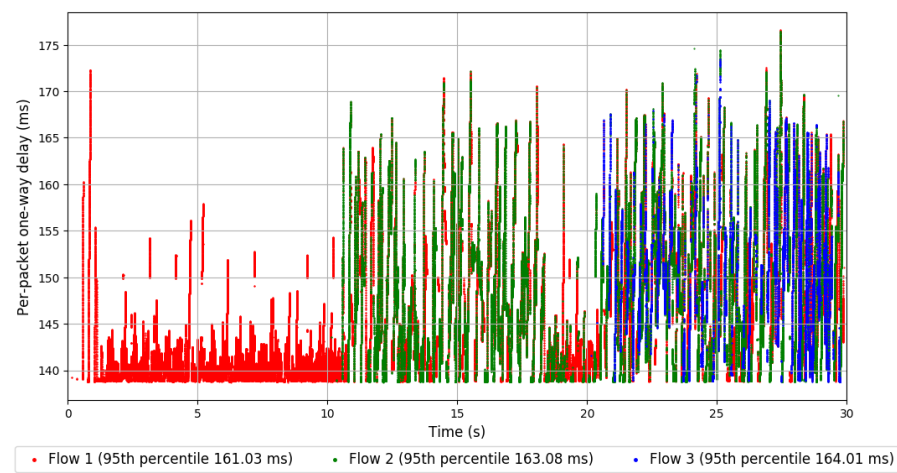
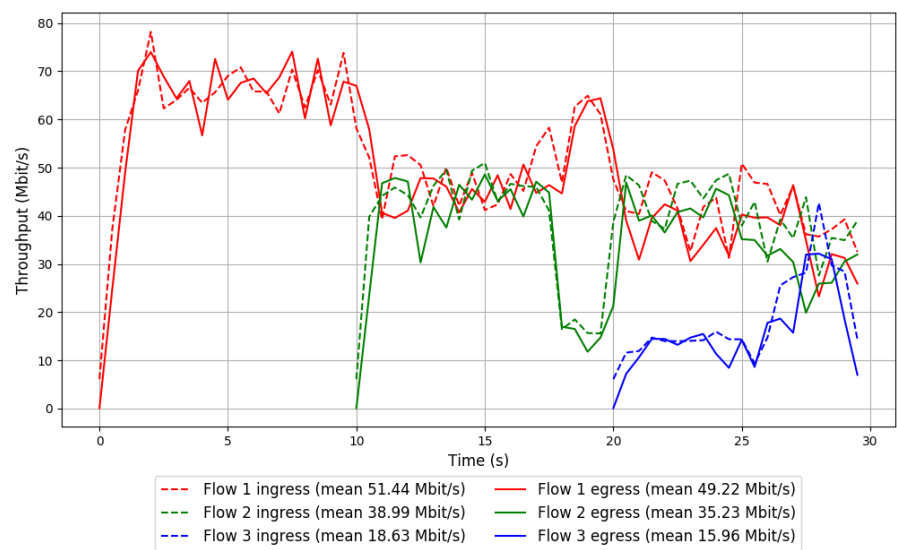
-- Flow 3:

Average throughput: 15.96 Mbit/s

95th percentile per-packet one-way delay: 164.014 ms

Loss rate: 16.36%

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



Run 6: Statistics of TaoVA-100x

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

End at: Mon, 10 Jul 2017 01:07:57 +0000

Local clock offset: 0.566 ms

Remote clock offset: -1.975 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.84 Mbit/s

95th percentile per-packet one-way delay: 162.270 ms

Loss rate: 4.06%

-- Flow 1:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 161.277 ms

Loss rate: 3.06%

-- Flow 2:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 163.517 ms

Loss rate: 5.28%

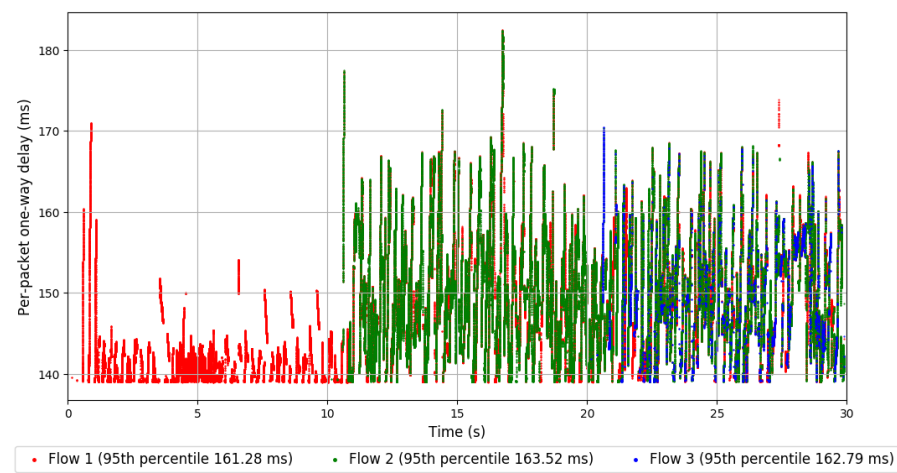
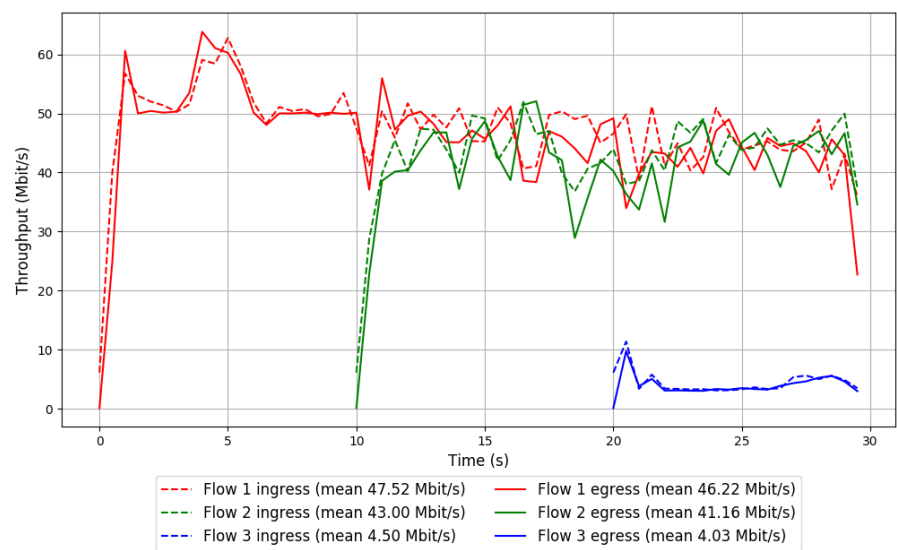
-- Flow 3:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 162.786 ms

Loss rate: 12.23%

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



Run 7: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 01:27:29 +0000

End at: Mon, 10 Jul 2017 01:27:59 +0000

Local clock offset: 0.415 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:15 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 163.490 ms

Loss rate: 6.82%

-- Flow 1:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 162.572 ms

Loss rate: 4.85%

-- Flow 2:

Average throughput: 33.22 Mbit/s

95th percentile per-packet one-way delay: 164.814 ms

Loss rate: 8.09%

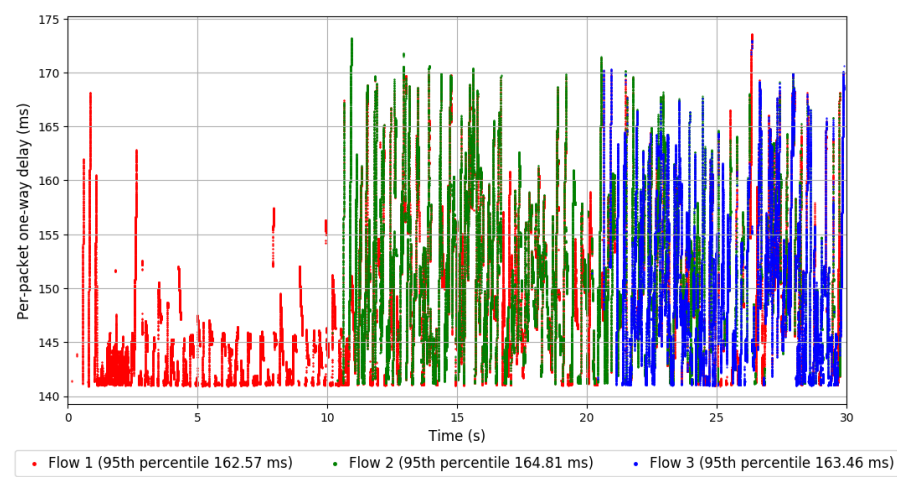
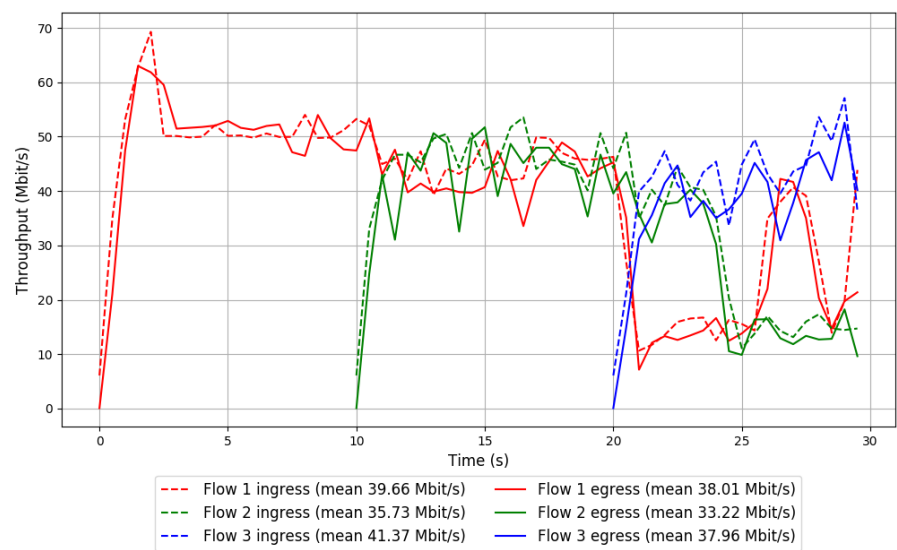
-- Flow 3:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 163.464 ms

Loss rate: 10.36%

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



Run 8: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 01:47:25 +0000

End at: Mon, 10 Jul 2017 01:47:55 +0000

Local clock offset: -0.887 ms

Remote clock offset: -0.032 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 164.551 ms

Loss rate: 5.33%

-- Flow 1:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 163.509 ms

Loss rate: 3.76%

-- Flow 2:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 165.519 ms

Loss rate: 6.81%

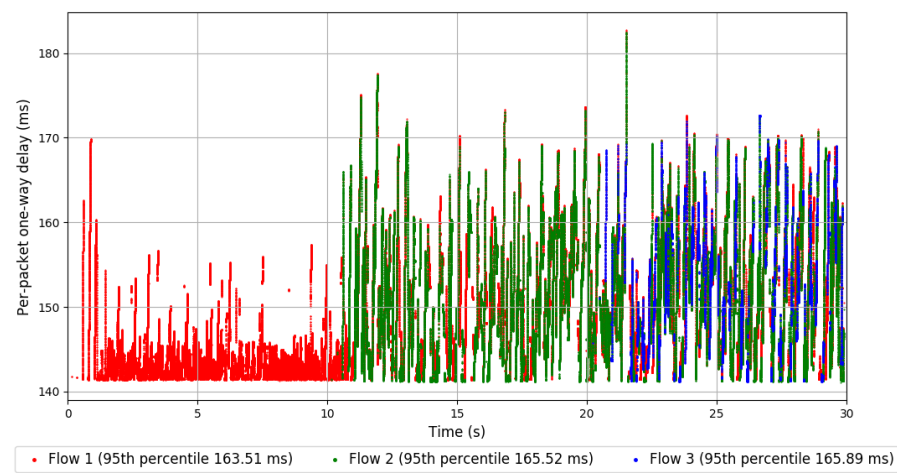
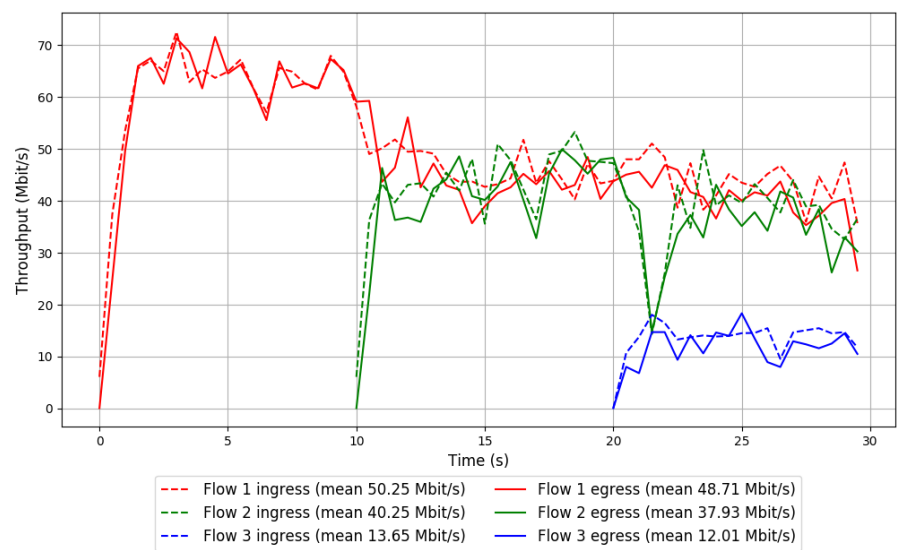
-- Flow 3:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 165.893 ms

Loss rate: 14.16%

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



Run 9: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 02:07:14 +0000

End at: Mon, 10 Jul 2017 02:07:44 +0000

Local clock offset: -0.87 ms

Remote clock offset: -0.338 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.28 Mbit/s

95th percentile per-packet one-way delay: 165.492 ms

Loss rate: 4.58%

-- Flow 1:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 164.598 ms

Loss rate: 3.68%

-- Flow 2:

Average throughput: 42.24 Mbit/s

95th percentile per-packet one-way delay: 166.640 ms

Loss rate: 5.58%

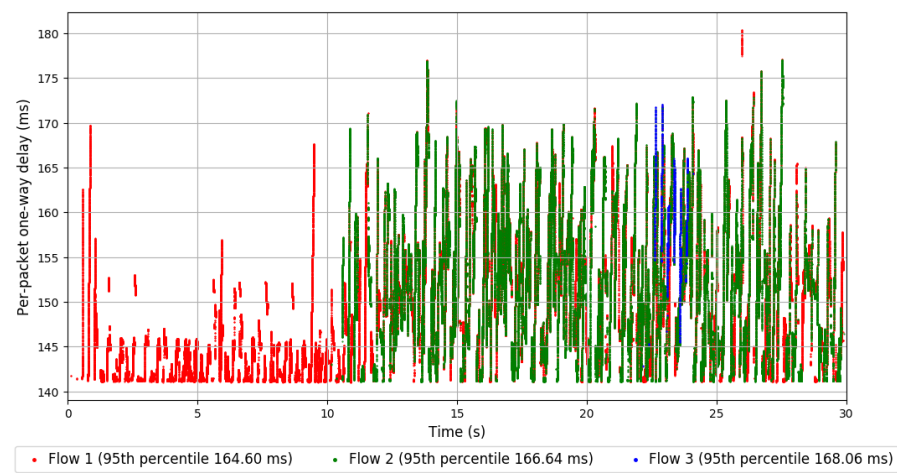
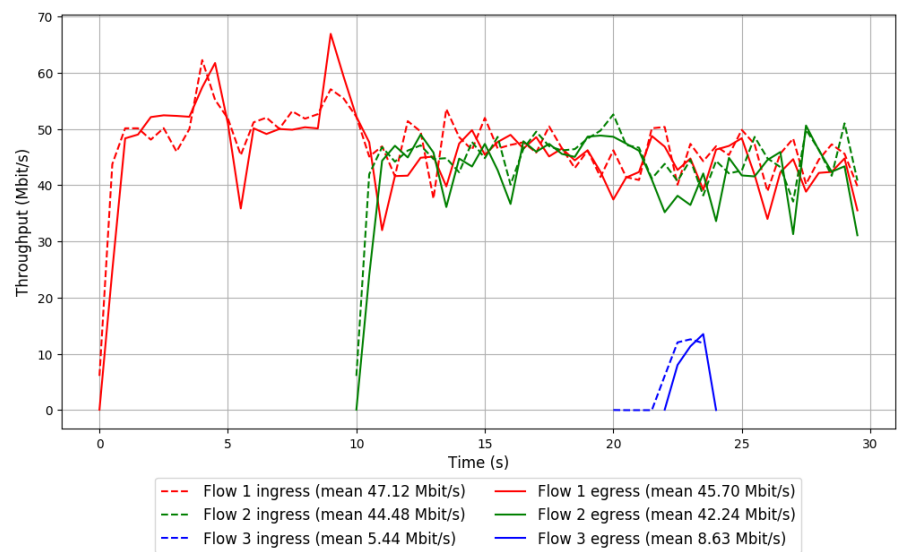
-- Flow 3:

Average throughput: 8.63 Mbit/s

95th percentile per-packet one-way delay: 168.063 ms

Loss rate: 22.65%

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



Run 10: Statistics of TaoVA-100x

Start at: Mon, 10 Jul 2017 02:27:06 +0000

End at: Mon, 10 Jul 2017 02:27:36 +0000

Local clock offset: -1.1 ms

Remote clock offset: -0.423 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.63 Mbit/s

95th percentile per-packet one-way delay: 163.086 ms

Loss rate: 6.73%

-- Flow 1:

Average throughput: 47.57 Mbit/s

95th percentile per-packet one-way delay: 161.771 ms

Loss rate: 4.53%

-- Flow 2:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 162.778 ms

Loss rate: 12.09%

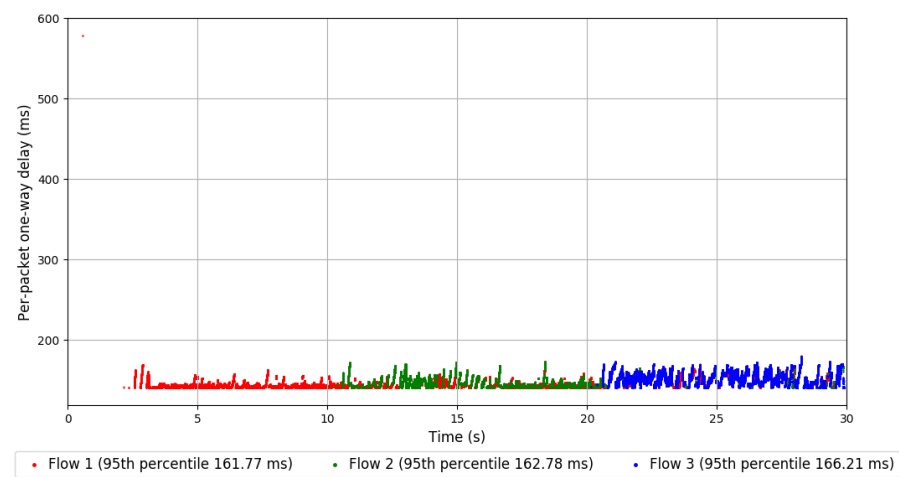
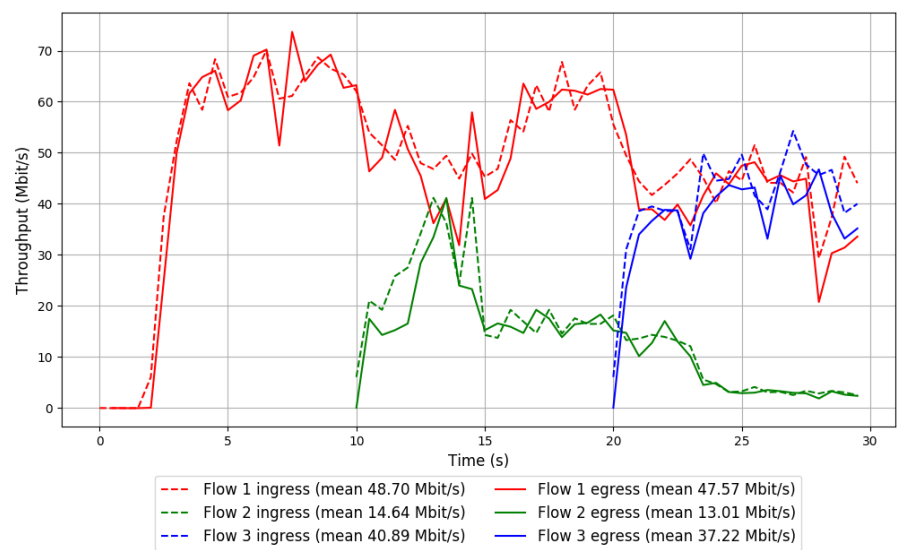
-- Flow 3:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 166.205 ms

Loss rate: 10.81%

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



Run 1: Statistics of TCP Vegas

Start at: Sun, 09 Jul 2017 23:29:01 +0000

End at: Sun, 09 Jul 2017 23:29:31 +0000

Local clock offset: -0.401 ms

Remote clock offset: -1.109 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 169.681 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 167.230 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 29.04 Mbit/s

95th percentile per-packet one-way delay: 172.185 ms

Loss rate: 1.78%

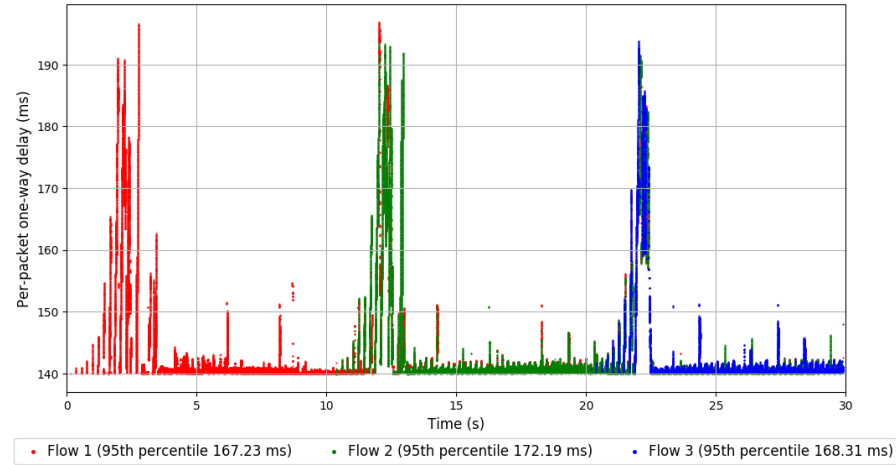
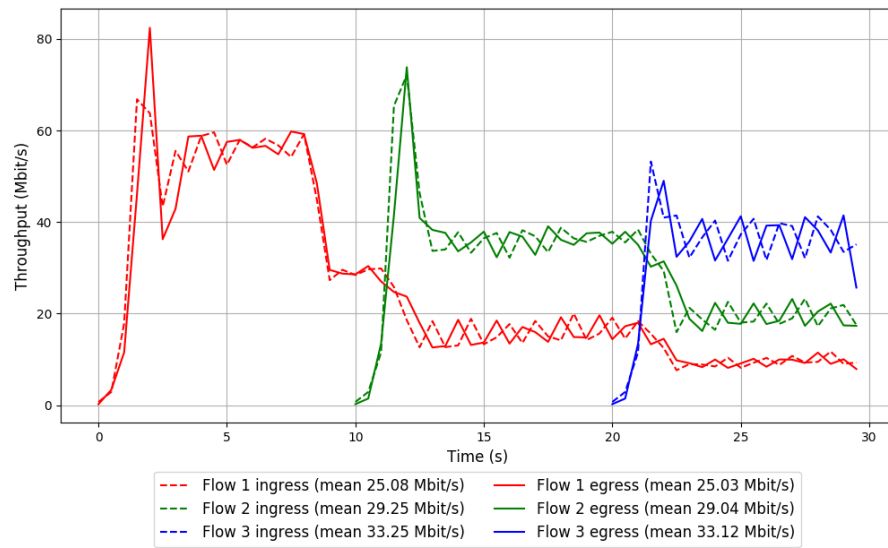
-- Flow 3:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 168.306 ms

Loss rate: 2.45%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Sun, 09 Jul 2017 23:48:58 +0000

End at: Sun, 09 Jul 2017 23:49:28 +0000

Local clock offset: -0.457 ms

Remote clock offset: -0.928 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 169.703 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 26.52 Mbit/s

95th percentile per-packet one-way delay: 158.105 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 173.131 ms

Loss rate: 2.02%

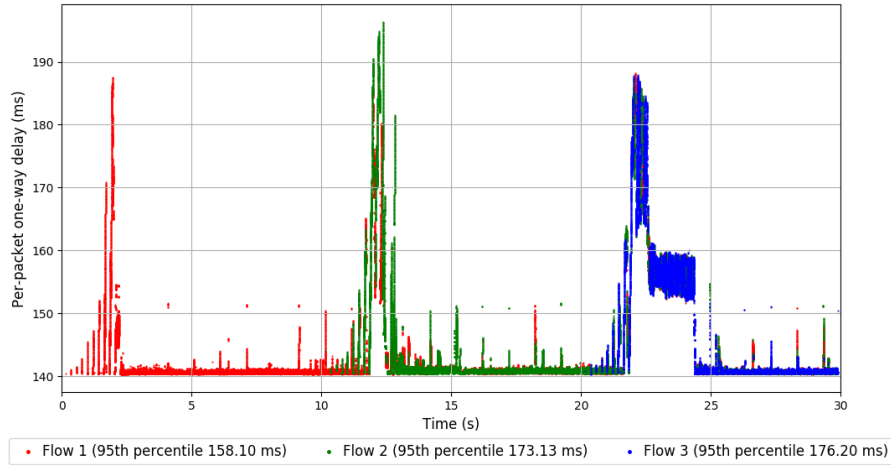
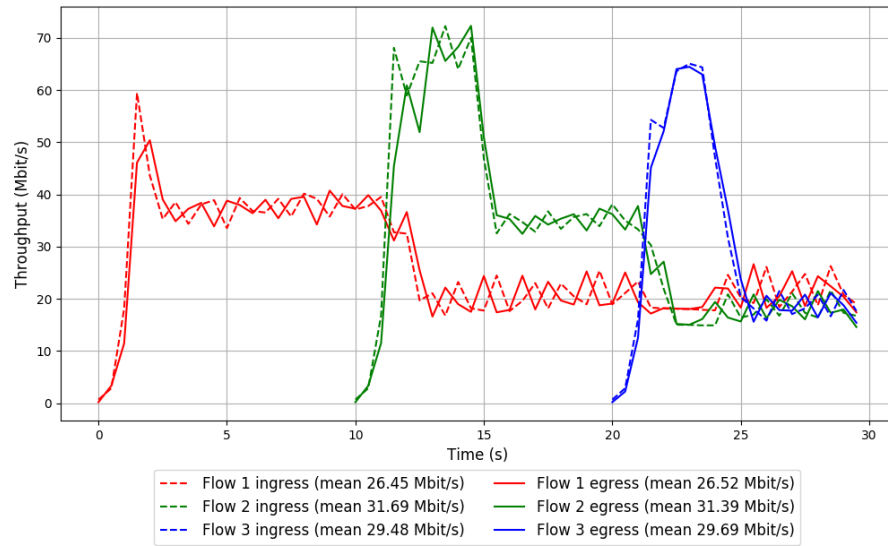
-- Flow 3:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 176.198 ms

Loss rate: 1.40%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 00:08:59 +0000

End at: Mon, 10 Jul 2017 00:09:29 +0000

Local clock offset: -0.675 ms

Remote clock offset: -1.934 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 171.289 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 12.28 Mbit/s

95th percentile per-packet one-way delay: 175.207 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 18.39 Mbit/s

95th percentile per-packet one-way delay: 149.834 ms

Loss rate: 0.75%

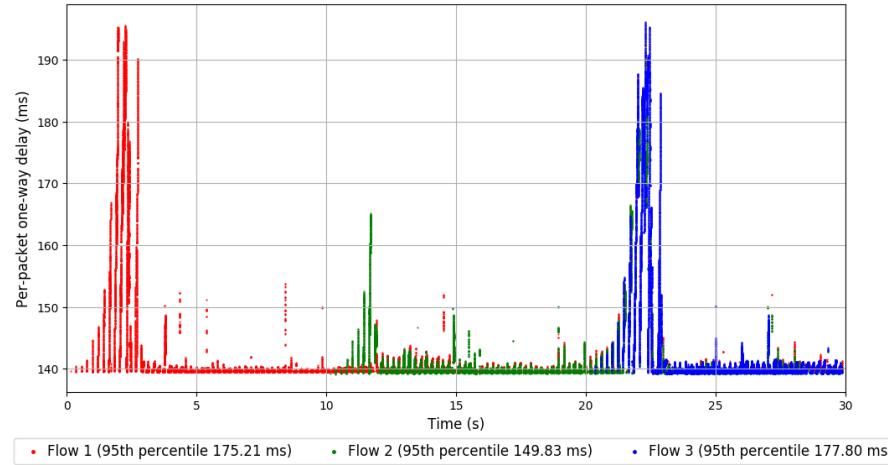
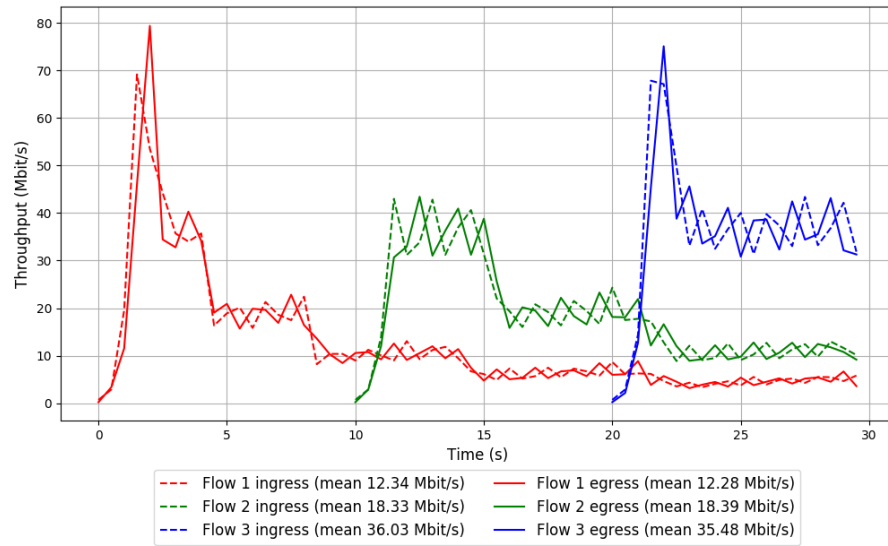
-- Flow 3:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 177.800 ms

Loss rate: 3.62%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 00:28:54 +0000

End at: Mon, 10 Jul 2017 00:29:24 +0000

Local clock offset: -0.447 ms

Remote clock offset: -2.245 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 169.229 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 174.783 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 173.352 ms

Loss rate: 1.32%

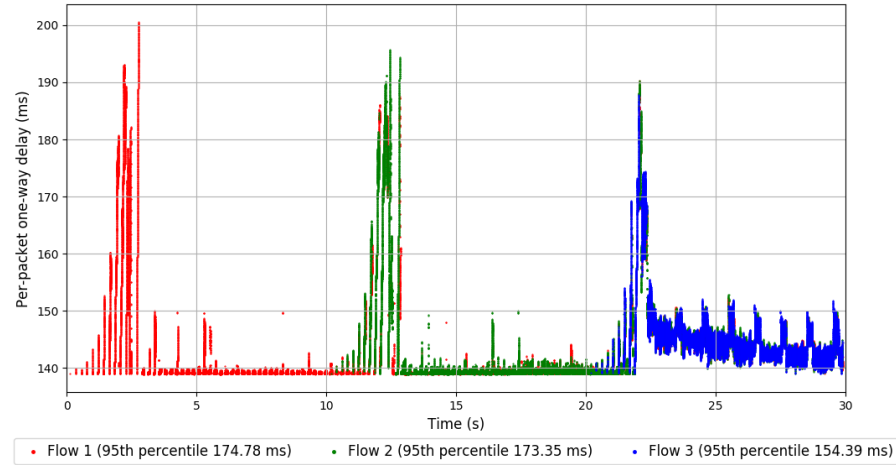
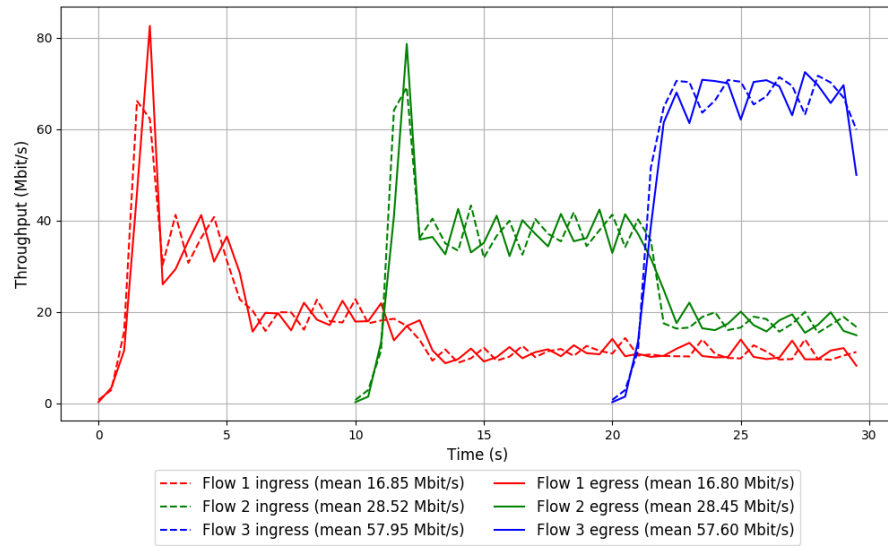
-- Flow 3:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 154.391 ms

Loss rate: 2.59%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 00:49:03 +0000

End at: Mon, 10 Jul 2017 00:49:33 +0000

Local clock offset: -0.601 ms

Remote clock offset: -2.113 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:08:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.01 Mbit/s

95th percentile per-packet one-way delay: 154.249 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 150.502 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 152.205 ms

Loss rate: 0.87%

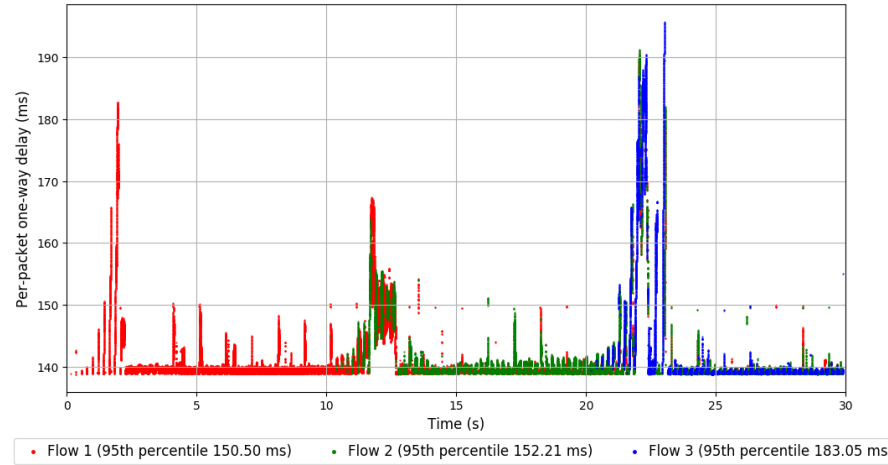
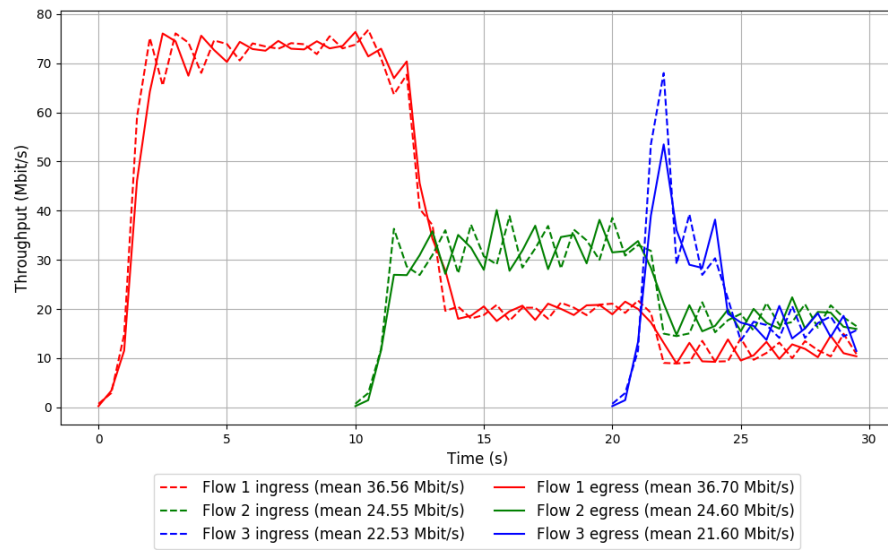
-- Flow 3:

Average throughput: 21.60 Mbit/s

95th percentile per-packet one-way delay: 183.051 ms

Loss rate: 6.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 01:08:53 +0000

End at: Mon, 10 Jul 2017 01:09:23 +0000

Local clock offset: 0.695 ms

Remote clock offset: -1.932 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 157.935 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 147.975 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 21.40 Mbit/s

95th percentile per-packet one-way delay: 177.240 ms

Loss rate: 1.81%

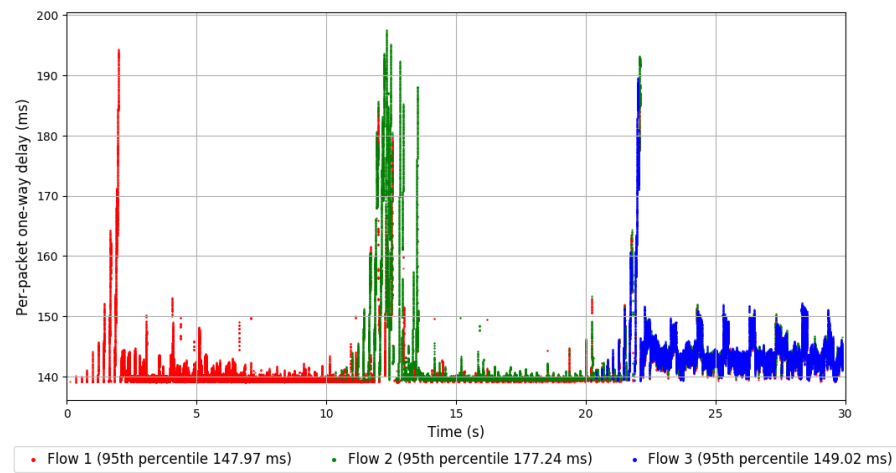
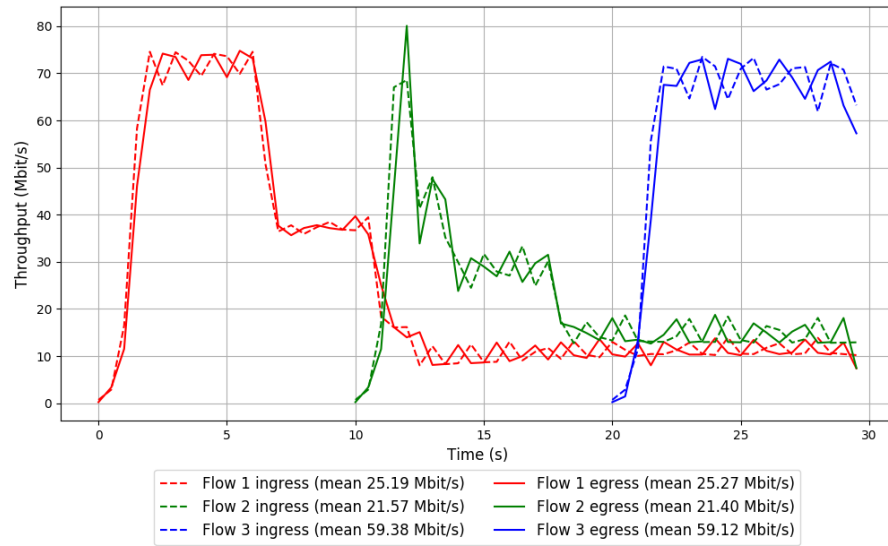
-- Flow 3:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 149.019 ms

Loss rate: 2.53%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 01:28:55 +0000

End at: Mon, 10 Jul 2017 01:29:25 +0000

Local clock offset: -0.516 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.02 Mbit/s

95th percentile per-packet one-way delay: 169.112 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 174.251 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 161.475 ms

Loss rate: 1.05%

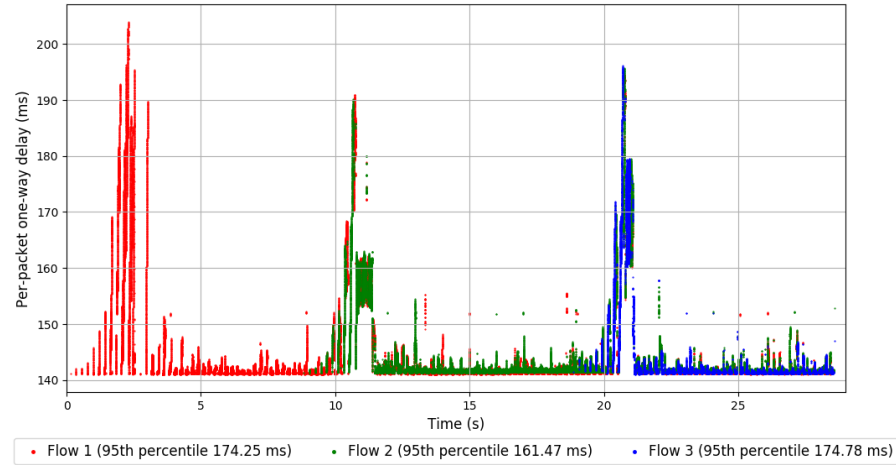
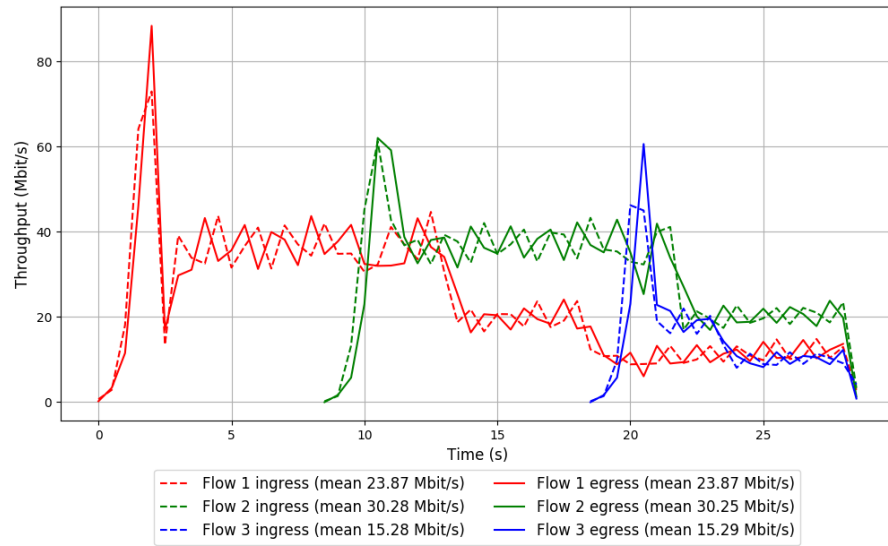
-- Flow 3:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 174.783 ms

Loss rate: 1.75%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

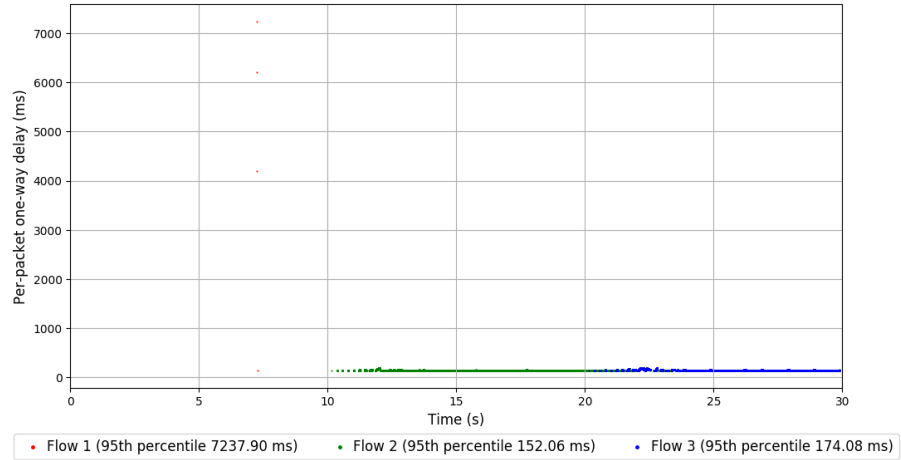
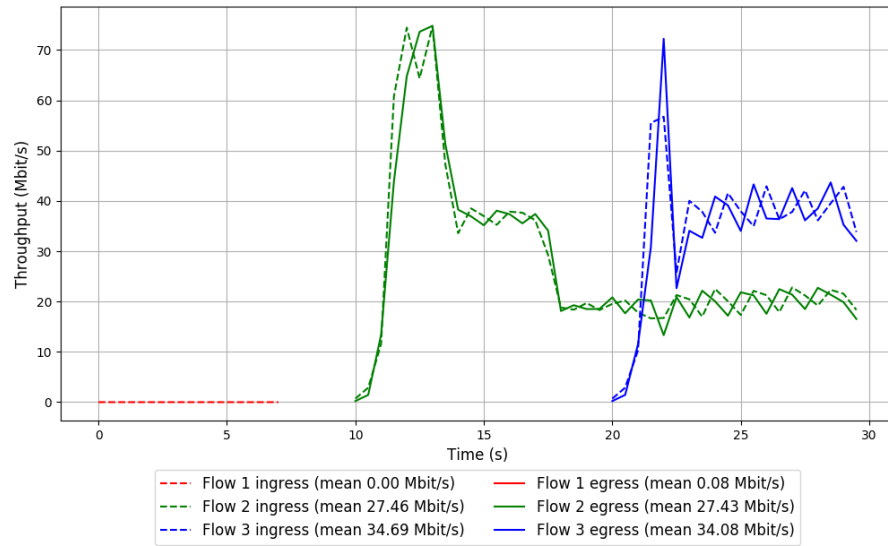
Start at: Mon, 10 Jul 2017 01:48:51 +0000

End at: Mon, 10 Jul 2017 01:49:21 +0000

Local clock offset: 0.698 ms

Remote clock offset: -0.1 ms

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Mon, 10 Jul 2017 02:08:40 +0000

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

Local clock offset: 0.55 ms

Remote clock offset: -0.331 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 170.203 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 14.86 Mbit/s

95th percentile per-packet one-way delay: 171.711 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 150.241 ms

Loss rate: 1.25%

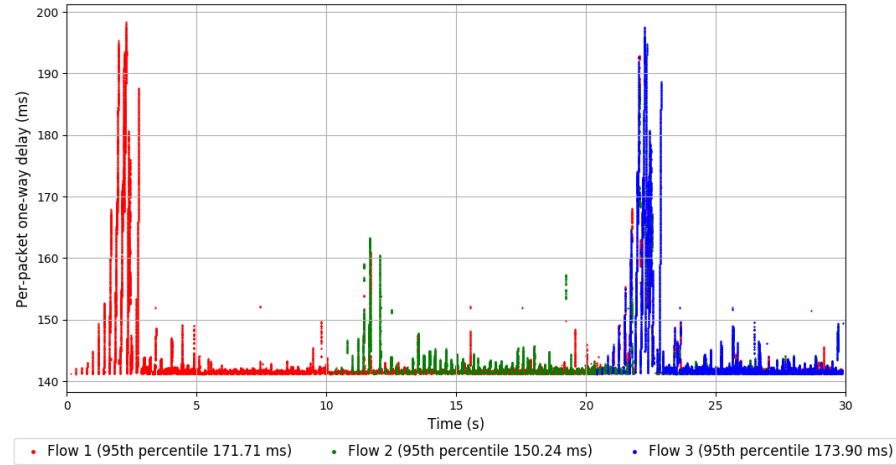
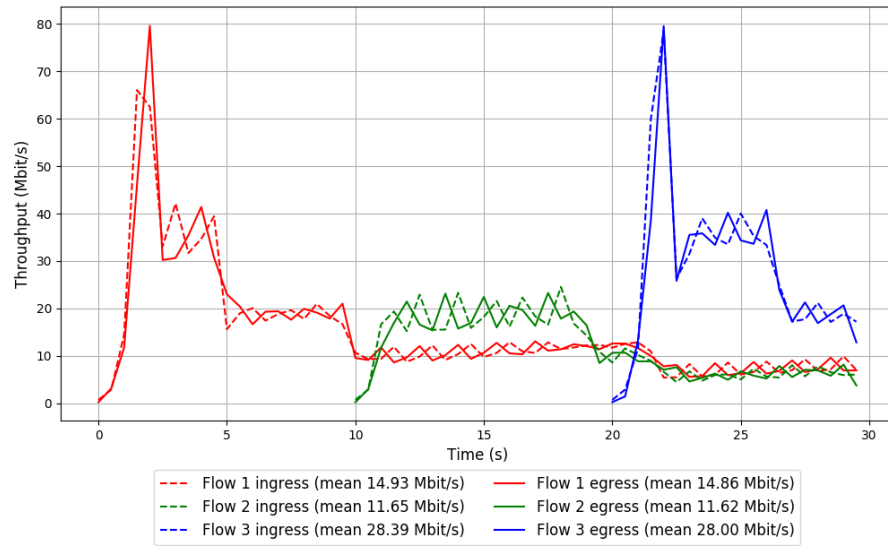
-- Flow 3:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 173.898 ms

Loss rate: 3.13%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

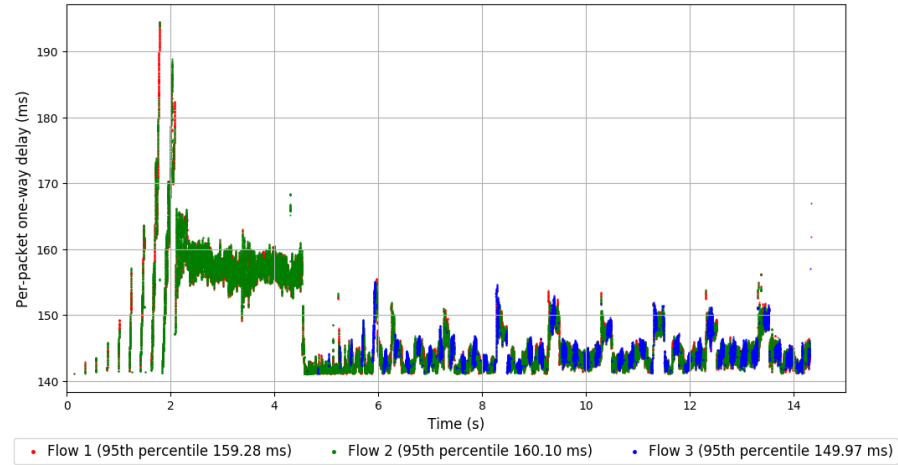
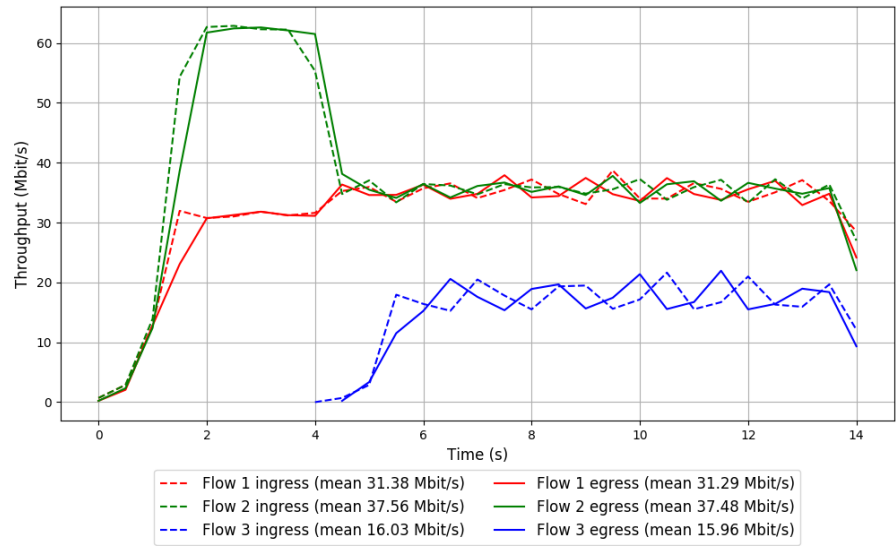
Start at: Mon, 10 Jul 2017 02:28:31 +0000

End at: Mon, 10 Jul 2017 02:29:01 +0000

Local clock offset: -0.978 ms

Remote clock offset: -0.486 ms

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Sun, 09 Jul 2017 23:30:20 +0000

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

Local clock offset: 0.63 ms

Remote clock offset: -1.04 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 206.449 ms

Loss rate: 64.78%

-- Flow 1:

Average throughput: 44.13 Mbit/s

95th percentile per-packet one-way delay: 206.908 ms

Loss rate: 62.76%

-- Flow 2:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 201.121 ms

Loss rate: 84.28%

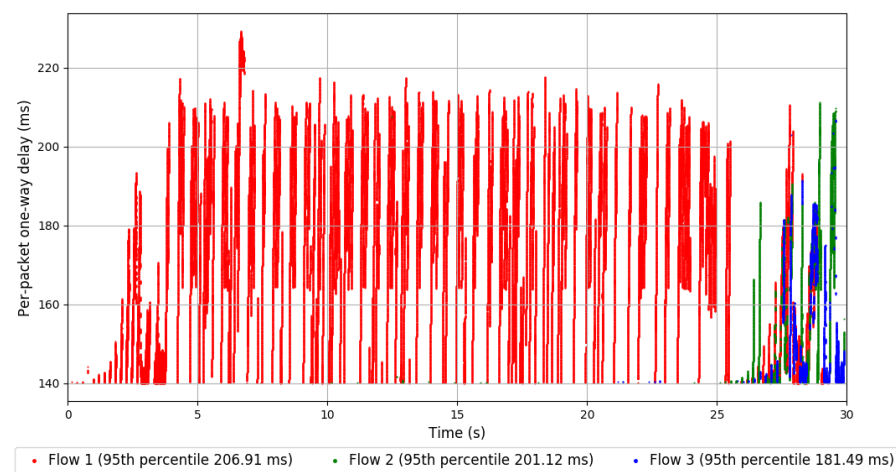
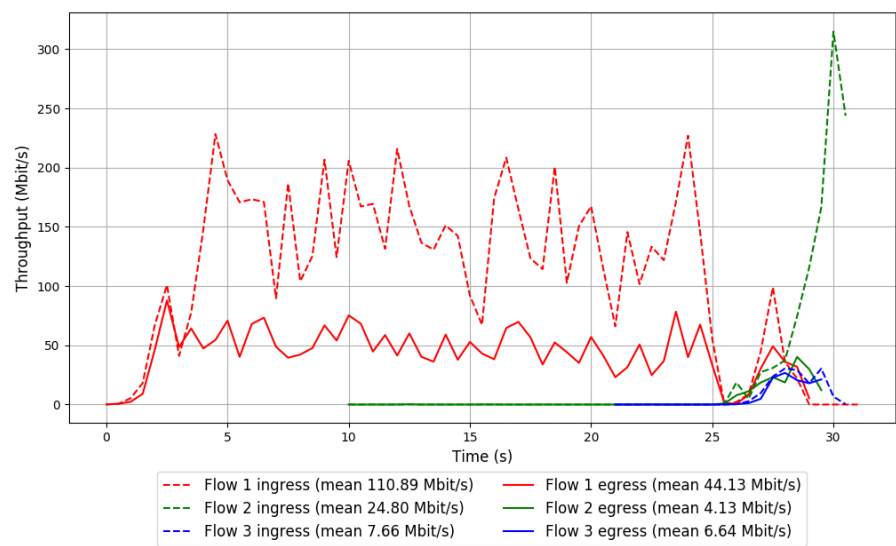
-- Flow 3:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 181.491 ms

Loss rate: 23.66%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Sun, 09 Jul 2017 23:50:22 +0000

End at: Sun, 09 Jul 2017 23:50:52 +0000

Local clock offset: 0.471 ms

Remote clock offset: -1.081 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 201.411 ms

Loss rate: 37.73%

-- Flow 1:

Average throughput: 15.12 Mbit/s

95th percentile per-packet one-way delay: 195.612 ms

Loss rate: 25.69%

-- Flow 2:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 204.337 ms

Loss rate: 45.09%

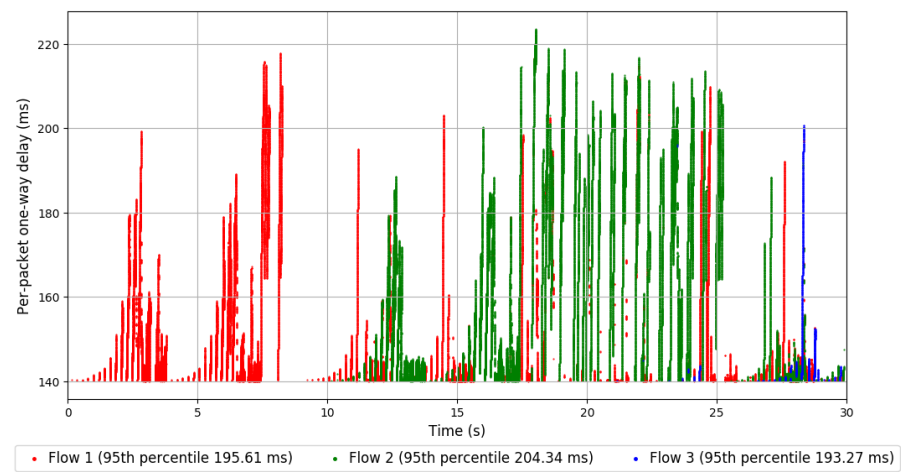
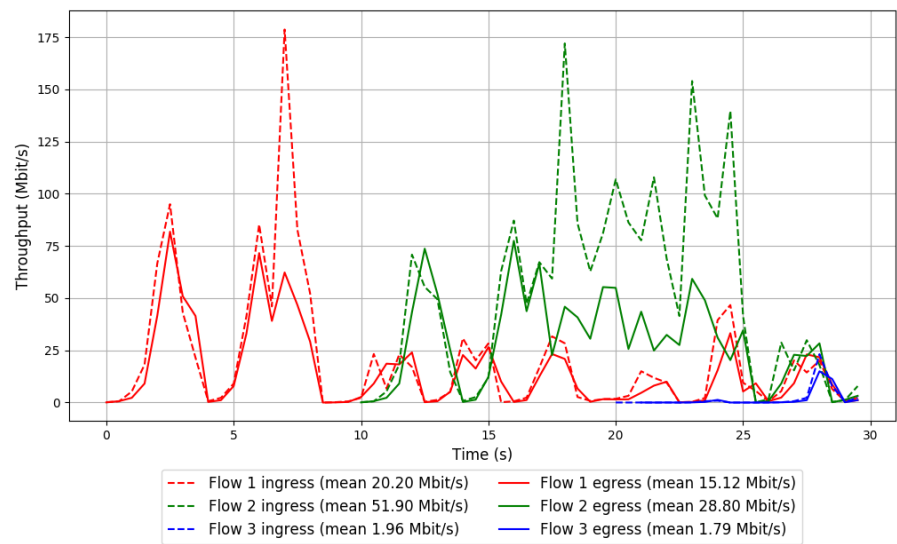
-- Flow 3:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 193.270 ms

Loss rate: 19.63%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

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

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

Local clock offset: -0.672 ms

Remote clock offset: -1.991 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.35 Mbit/s

95th percentile per-packet one-way delay: 200.260 ms

Loss rate: 33.93%

-- Flow 1:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 200.626 ms

Loss rate: 37.58%

-- Flow 2:

Average throughput: 9.72 Mbit/s

95th percentile per-packet one-way delay: 203.080 ms

Loss rate: 19.69%

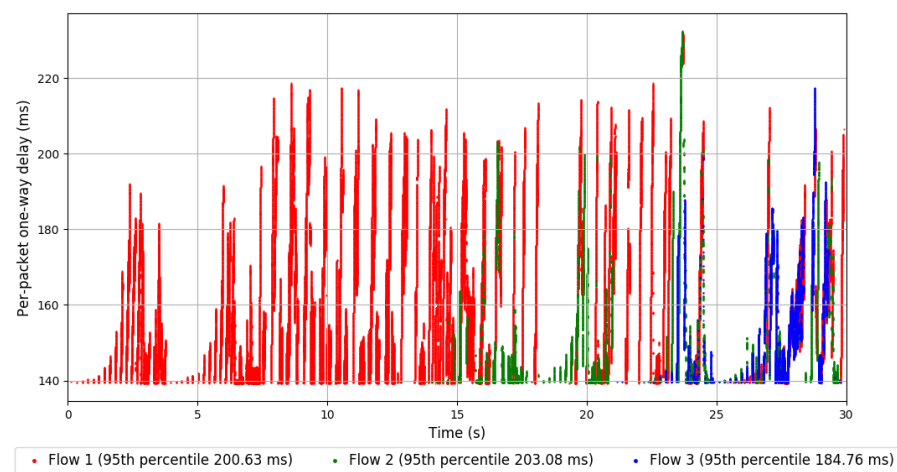
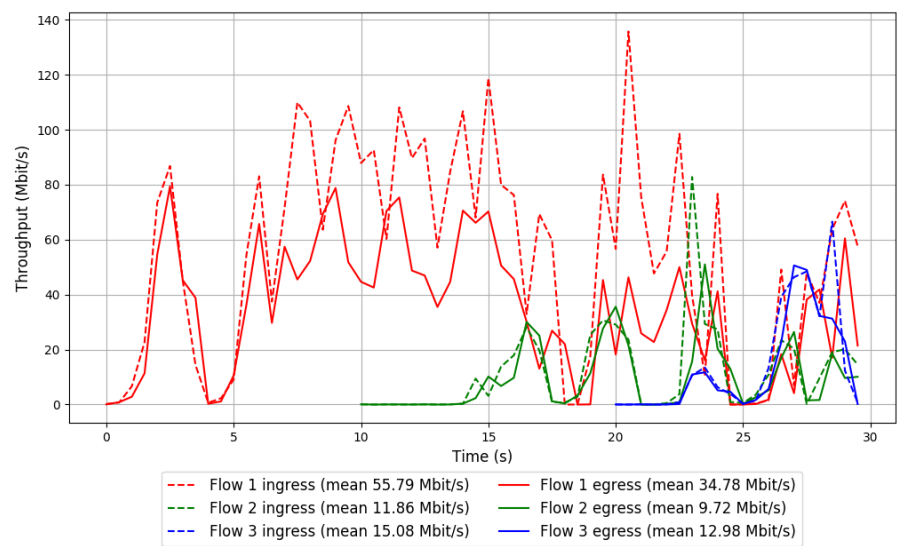
-- Flow 3:

Average throughput: 12.98 Mbit/s

95th percentile per-packet one-way delay: 184.757 ms

Loss rate: 15.75%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Mon, 10 Jul 2017 00:30:14 +0000

End at: Mon, 10 Jul 2017 00:30:44 +0000

Local clock offset: 0.46 ms

Remote clock offset: -2.26 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 197.391 ms

Loss rate: 42.46%

-- Flow 1:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 200.081 ms

Loss rate: 49.11%

-- Flow 2:

Average throughput: 10.32 Mbit/s

95th percentile per-packet one-way delay: 182.603 ms

Loss rate: 12.74%

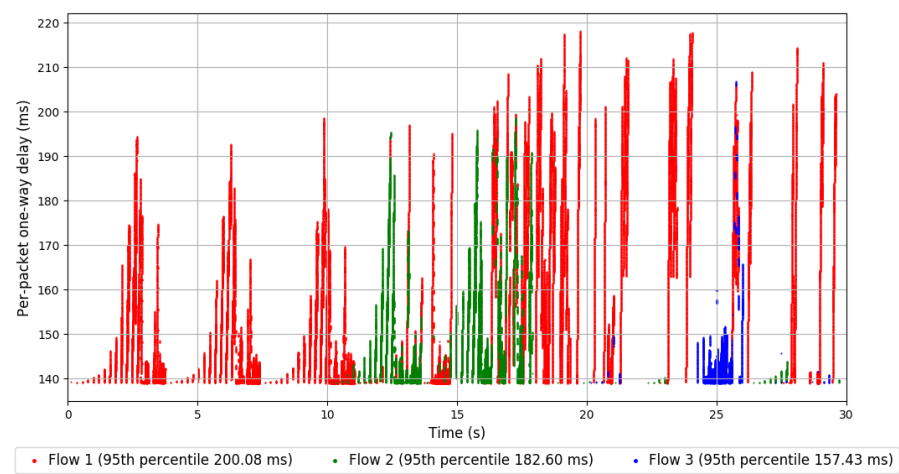
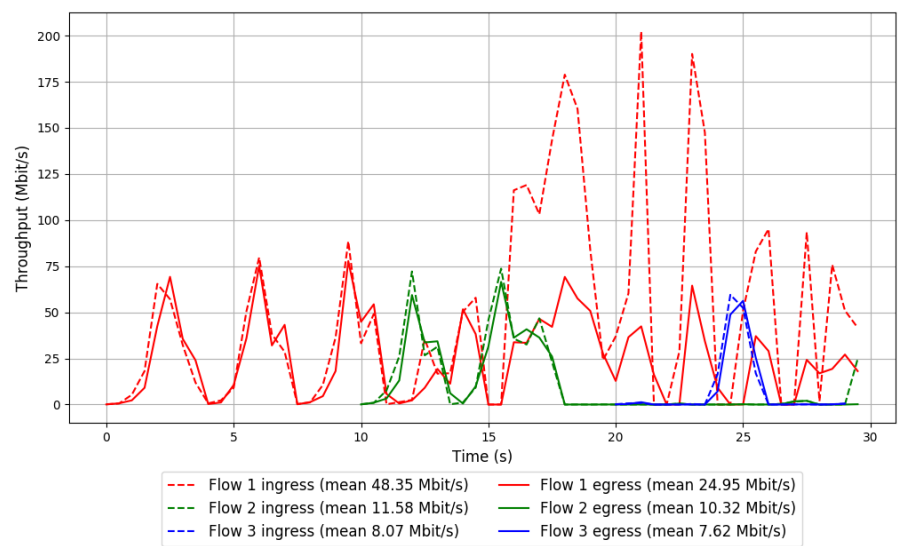
-- Flow 3:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 157.433 ms

Loss rate: 5.56%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Mon, 10 Jul 2017 00:50:23 +0000

End at: Mon, 10 Jul 2017 00:50:53 +0000

Local clock offset: 0.476 ms

Remote clock offset: -2.254 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.64 Mbit/s

95th percentile per-packet one-way delay: 195.832 ms

Loss rate: 39.54%

-- Flow 1:

Average throughput: 22.11 Mbit/s

95th percentile per-packet one-way delay: 186.021 ms

Loss rate: 13.39%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 186.766 ms

Loss rate: 20.40%

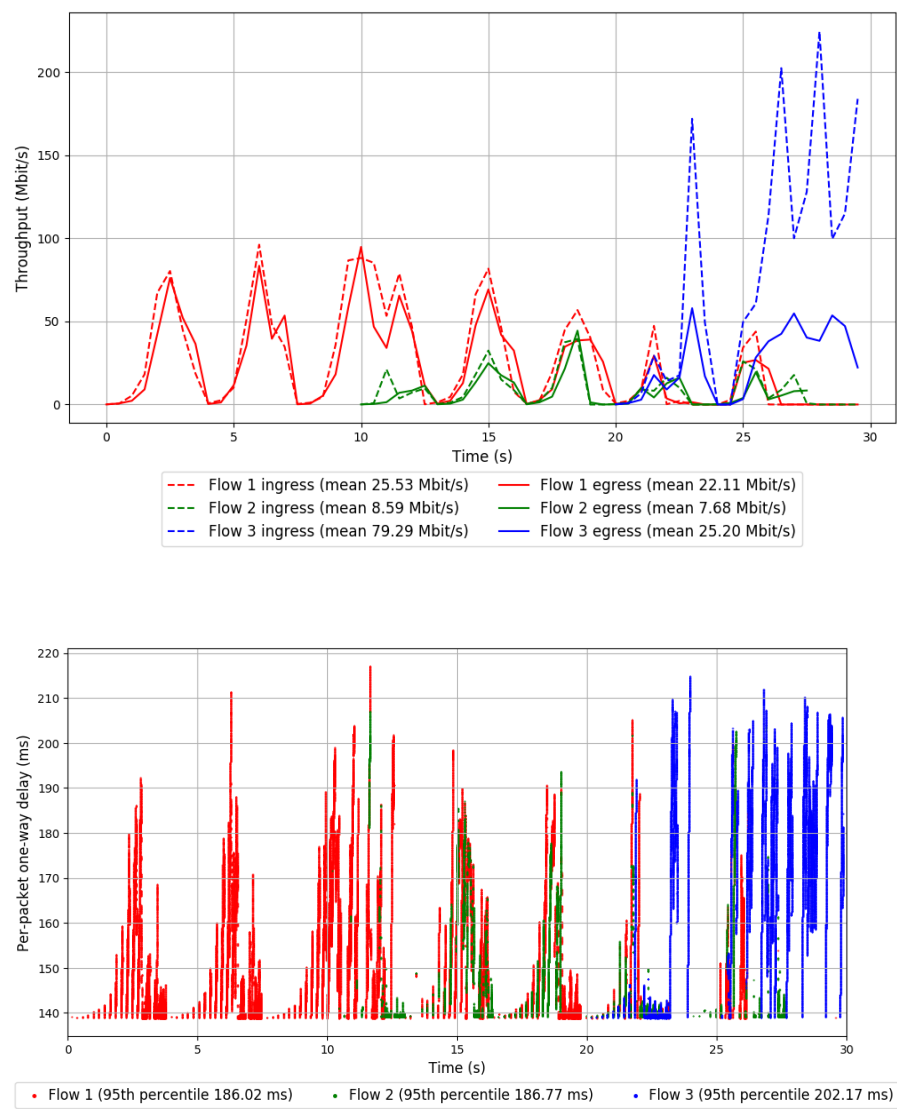
-- Flow 3:

Average throughput: 25.20 Mbit/s

95th percentile per-packet one-way delay: 202.167 ms

Loss rate: 68.71%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

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

Local clock offset: -0.379 ms

Remote clock offset: -1.892 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 198.312 ms

Loss rate: 31.19%

-- Flow 1:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 203.419 ms

Loss rate: 39.44%

-- Flow 2:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 186.187 ms

Loss rate: 11.50%

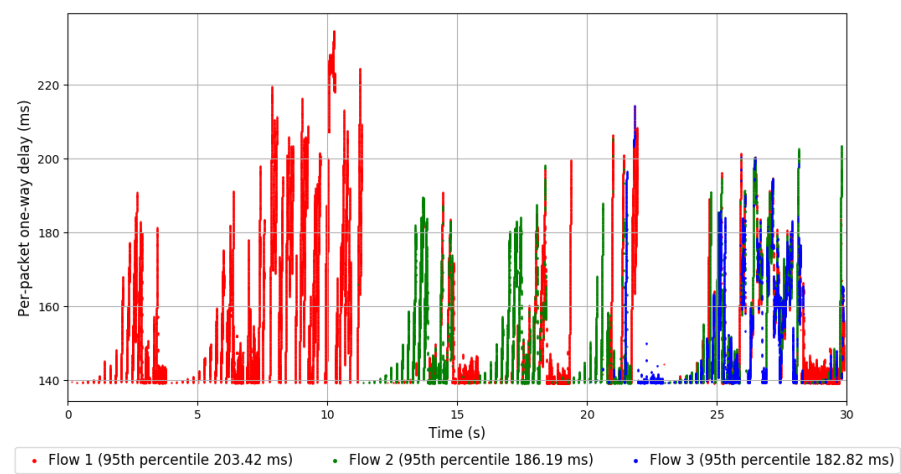
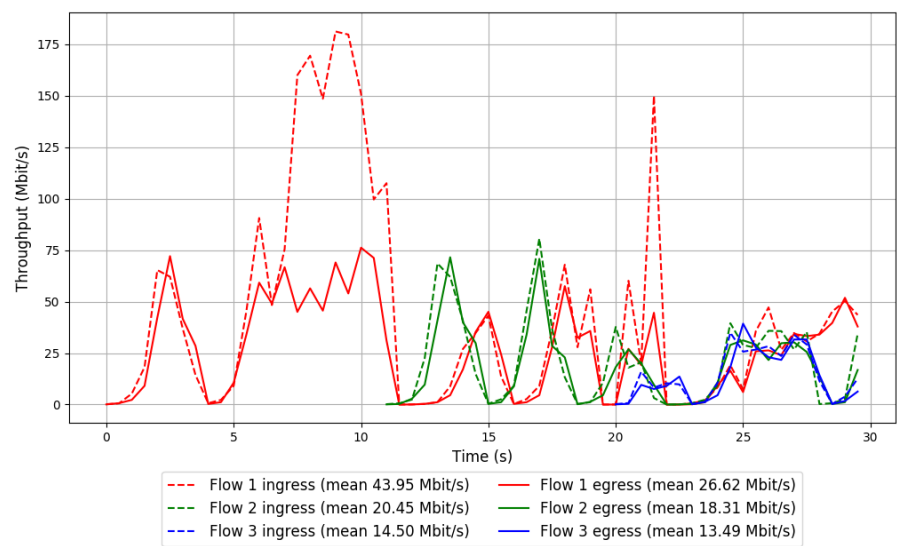
-- Flow 3:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 182.817 ms

Loss rate: 8.95%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Mon, 10 Jul 2017 01:30:14 +0000

End at: Mon, 10 Jul 2017 01:30:44 +0000

Local clock offset: 0.399 ms

Remote clock offset: -0.127 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.80 Mbit/s

95th percentile per-packet one-way delay: 189.088 ms

Loss rate: 19.55%

-- Flow 1:

Average throughput: 22.61 Mbit/s

95th percentile per-packet one-way delay: 190.161 ms

Loss rate: 23.04%

-- Flow 2:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 182.925 ms

Loss rate: 6.54%

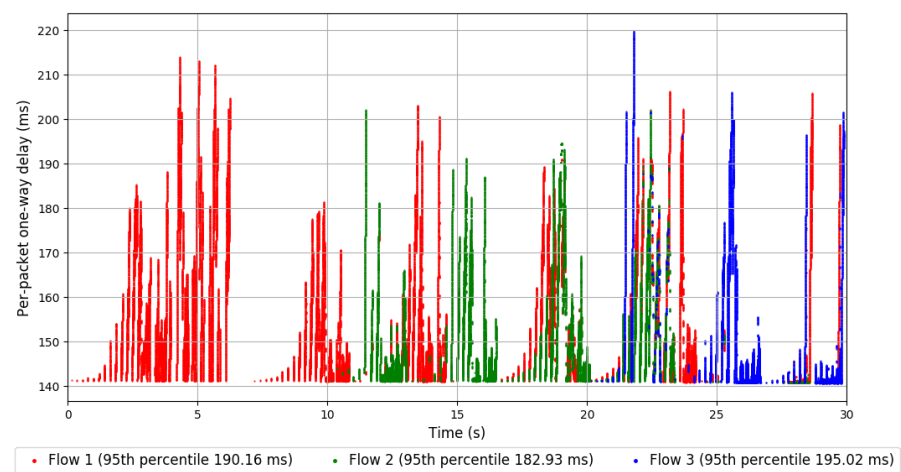
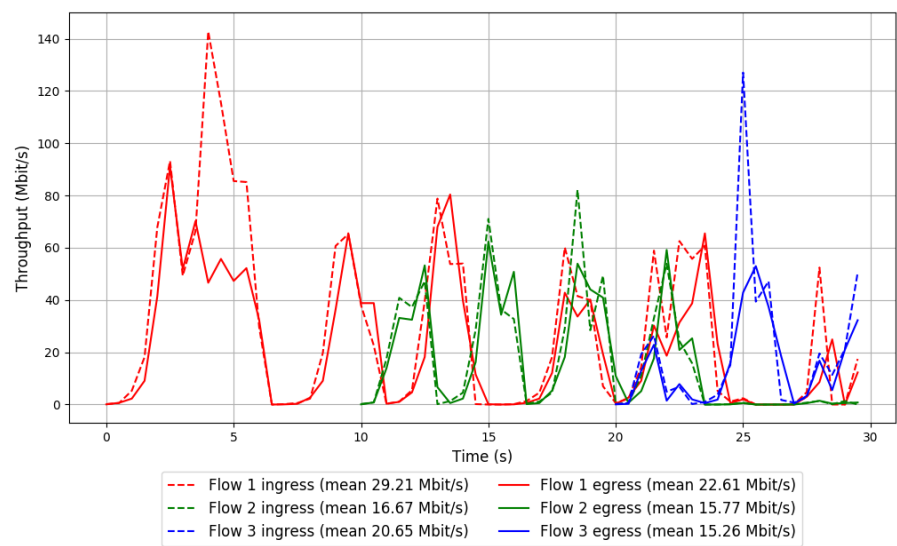
-- Flow 3:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 195.019 ms

Loss rate: 25.74%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Mon, 10 Jul 2017 01:50:09 +0000

End at: Mon, 10 Jul 2017 01:50:39 +0000

Local clock offset: -0.855 ms

Remote clock offset: -0.074 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:42 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 221.979 ms

Loss rate: 53.96%

-- Flow 1:

Average throughput: 12.84 Mbit/s

95th percentile per-packet one-way delay: 182.228 ms

Loss rate: 12.60%

-- Flow 2:

Average throughput: 35.56 Mbit/s

95th percentile per-packet one-way delay: 224.892 ms

Loss rate: 63.43%

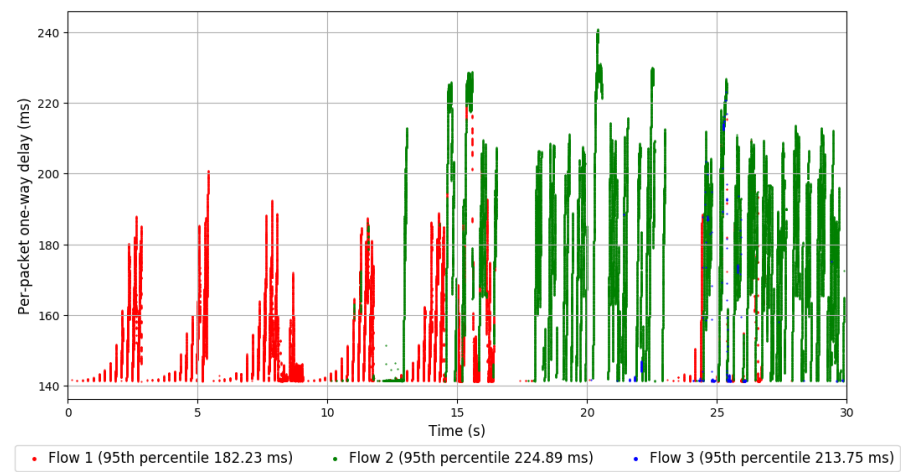
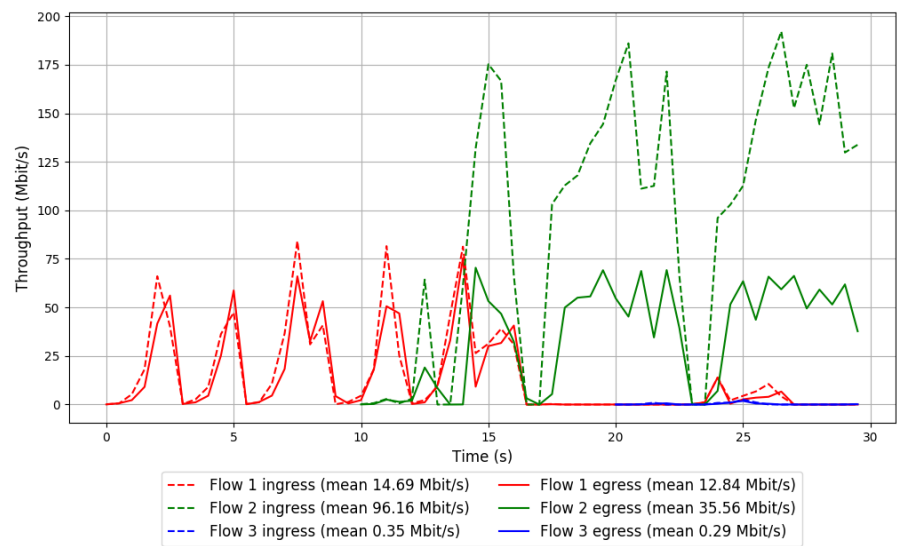
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 213.754 ms

Loss rate: 18.92%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

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

Local clock offset: 0.287 ms

Remote clock offset: -0.365 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:46 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 199.979 ms

Loss rate: 38.68%

-- Flow 1:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 201.350 ms

Loss rate: 42.74%

-- Flow 2:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 185.711 ms

Loss rate: 12.88%

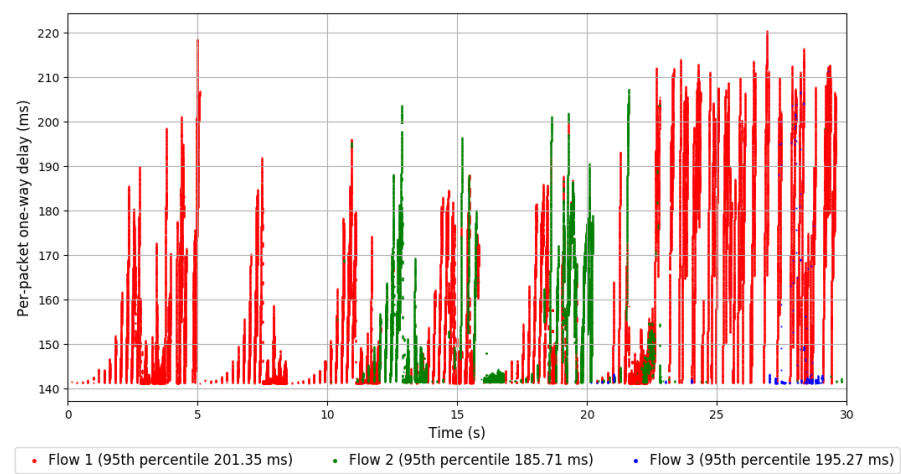
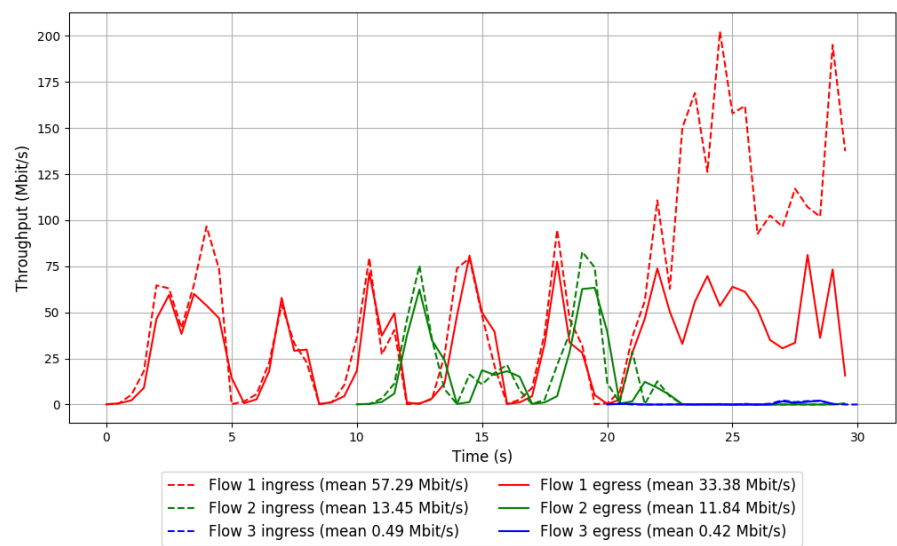
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 195.267 ms

Loss rate: 22.33%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Mon, 10 Jul 2017 02:29:49 +0000

End at: Mon, 10 Jul 2017 02:30:19 +0000

Local clock offset: -0.985 ms

Remote clock offset: -0.469 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.83 Mbit/s

95th percentile per-packet one-way delay: 203.310 ms

Loss rate: 46.92%

-- Flow 1:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 204.347 ms

Loss rate: 52.43%

-- Flow 2:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 188.877 ms

Loss rate: 6.83%

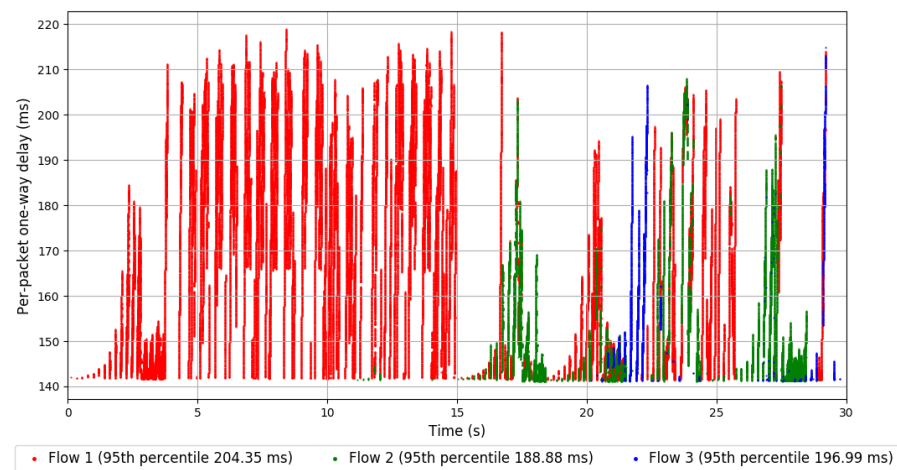
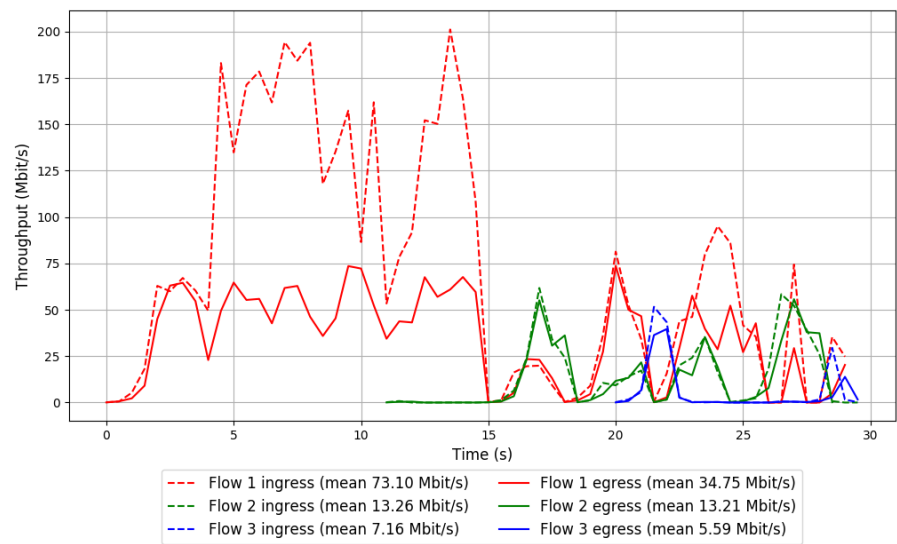
-- Flow 3:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 196.986 ms

Loss rate: 23.53%

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

Start at: Sun, 09 Jul 2017 23:22:25 +0000

End at: Sun, 09 Jul 2017 23:22:55 +0000

Local clock offset: -0.311 ms

Remote clock offset: -1.302 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 141.318 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 141.345 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 141.073 ms

Loss rate: 1.33%

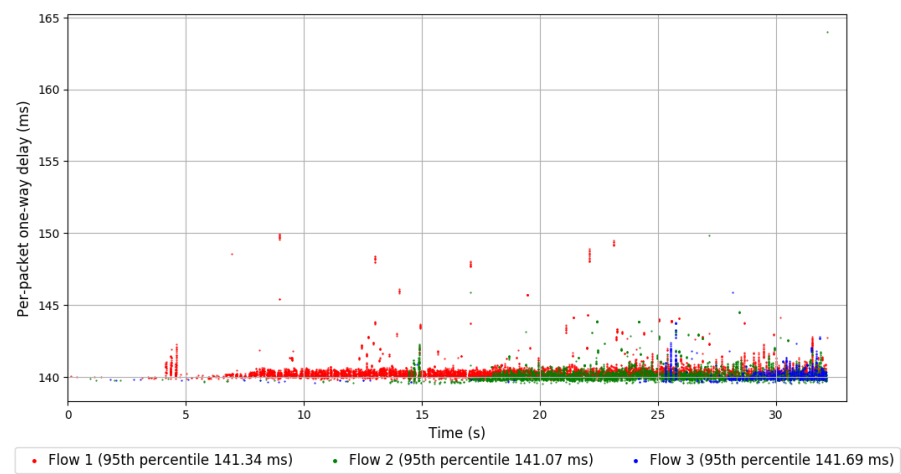
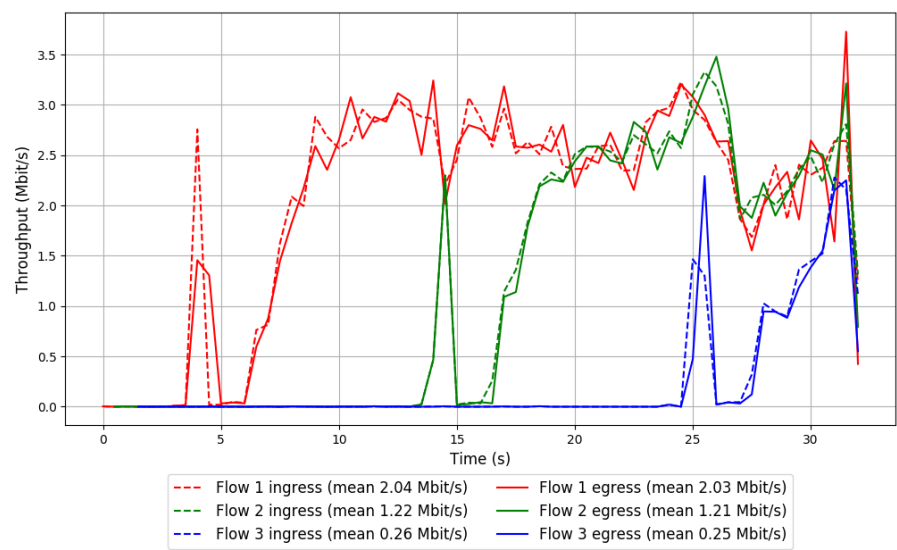
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 141.694 ms

Loss rate: 6.97%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Sun, 09 Jul 2017 23:42:20 +0000

End at: Sun, 09 Jul 2017 23:42:50 +0000

Local clock offset: 0.926 ms

Remote clock offset: -0.778 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 142.262 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 142.046 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 142.398 ms

Loss rate: 1.27%

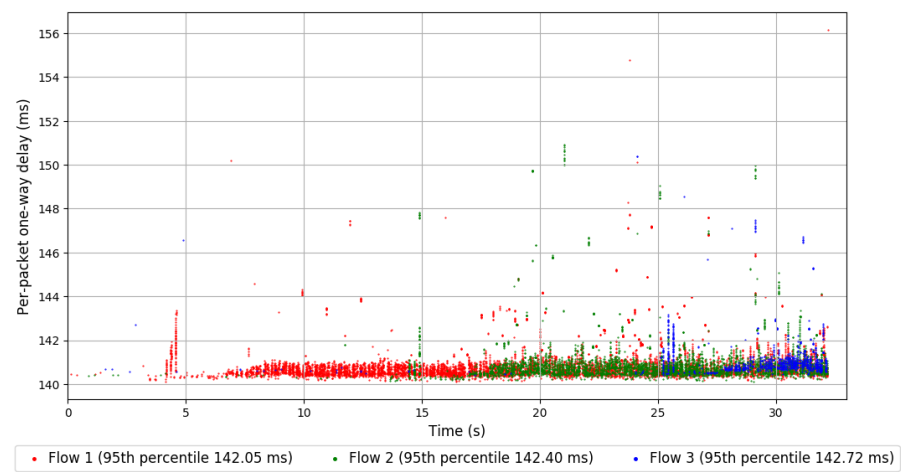
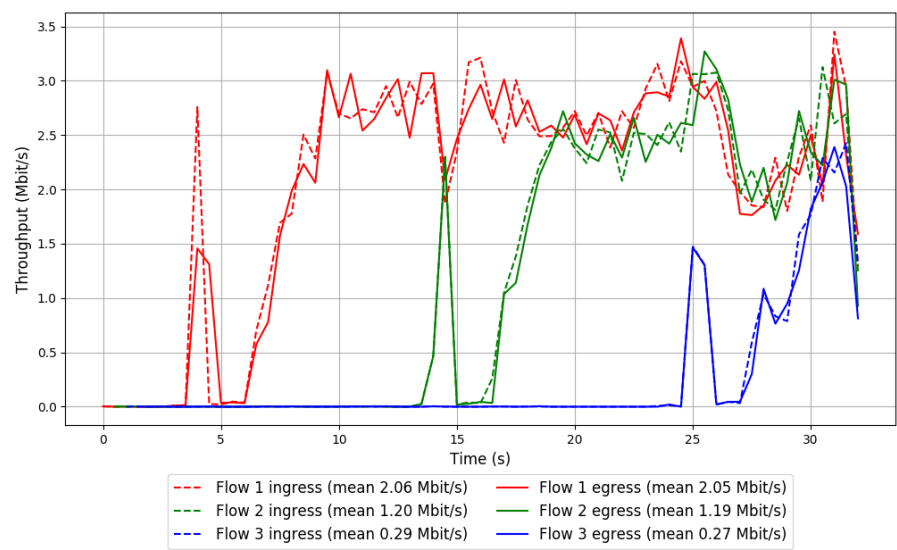
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 142.718 ms

Loss rate: 7.42%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 00:02:18 +0000

End at: Mon, 10 Jul 2017 00:02:48 +0000

Local clock offset: -0.512 ms

Remote clock offset: -1.812 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 140.977 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 140.955 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 141.104 ms

Loss rate: 1.37%

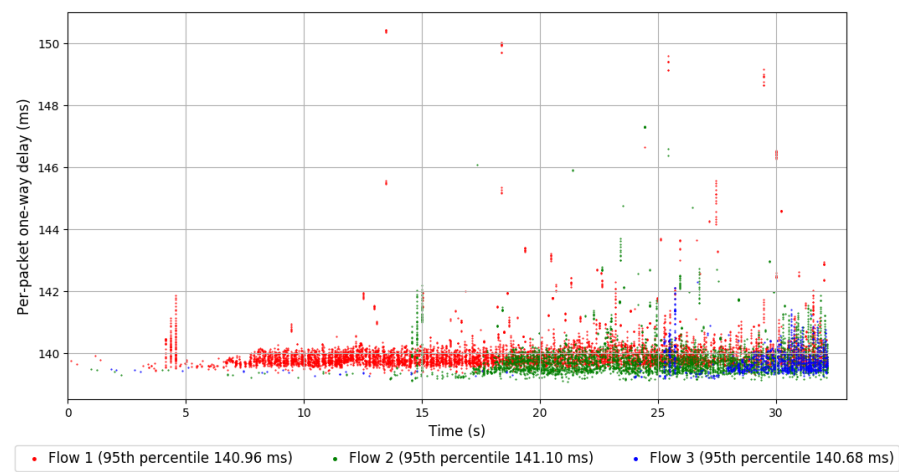
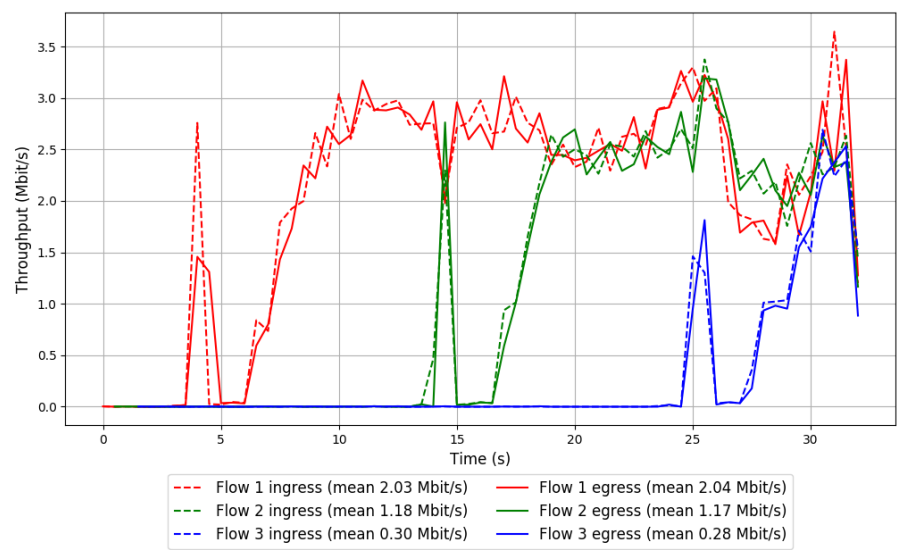
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 140.682 ms

Loss rate: 6.32%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 00:22:12 +0000

End at: Mon, 10 Jul 2017 00:22:42 +0000

Local clock offset: -0.426 ms

Remote clock offset: -2.186 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 140.512 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 140.149 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 140.760 ms

Loss rate: 1.04%

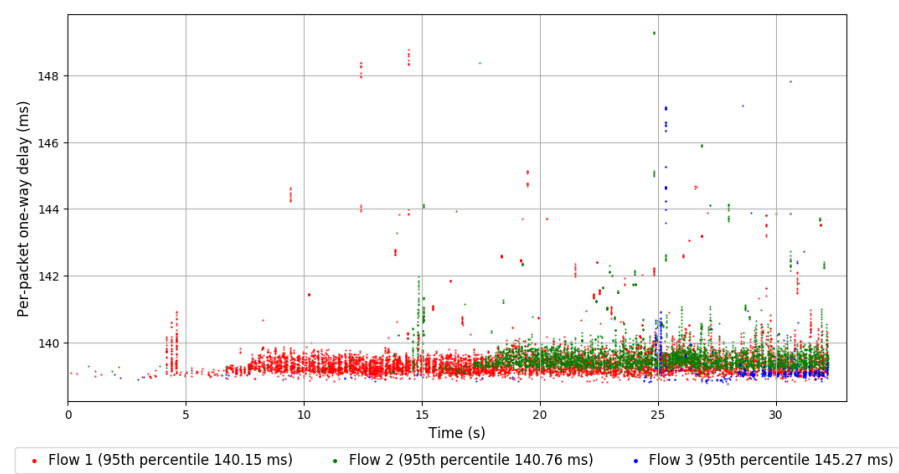
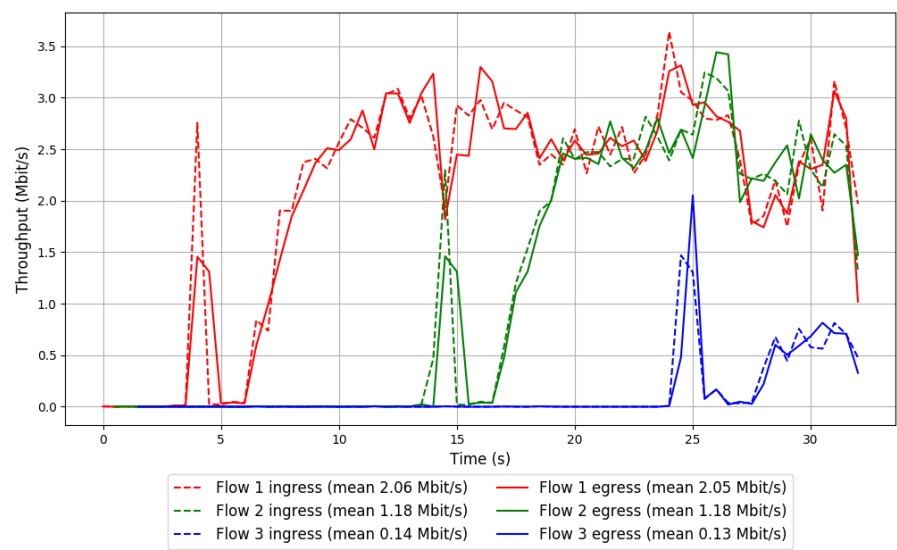
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 145.269 ms

Loss rate: 5.64%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 00:42:22 +0000

End at: Mon, 10 Jul 2017 00:42:52 +0000

Local clock offset: -0.66 ms

Remote clock offset: -2.334 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 140.435 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 139.976 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 141.102 ms

Loss rate: 1.50%

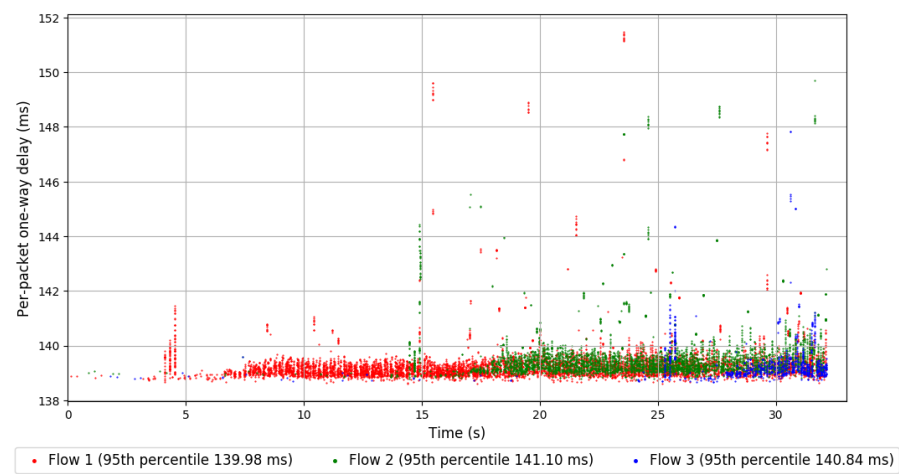
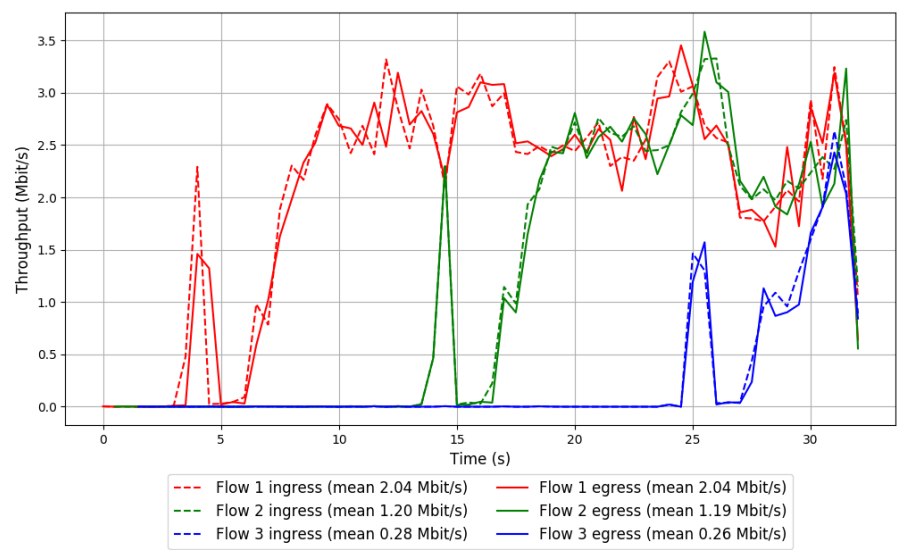
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 140.839 ms

Loss rate: 5.30%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

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

End at: Mon, 10 Jul 2017 01:02:48 +0000

Local clock offset: 0.927 ms

Remote clock offset: -2.069 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 140.938 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 140.523 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 141.349 ms

Loss rate: 2.05%

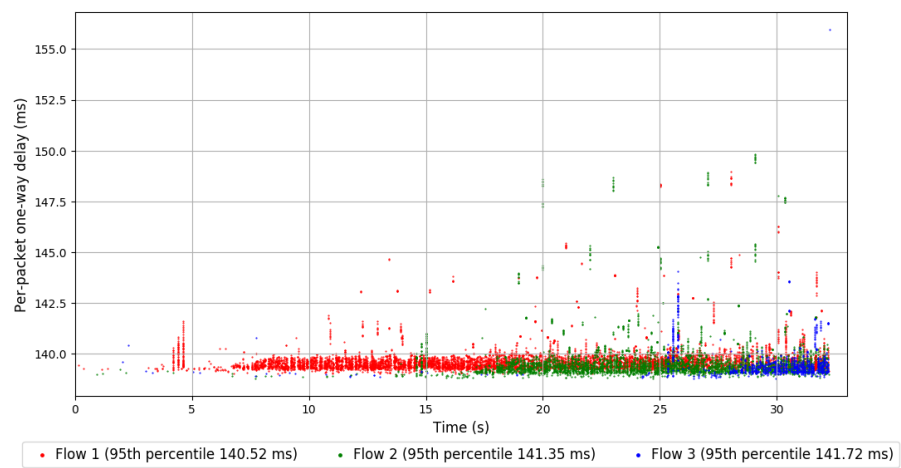
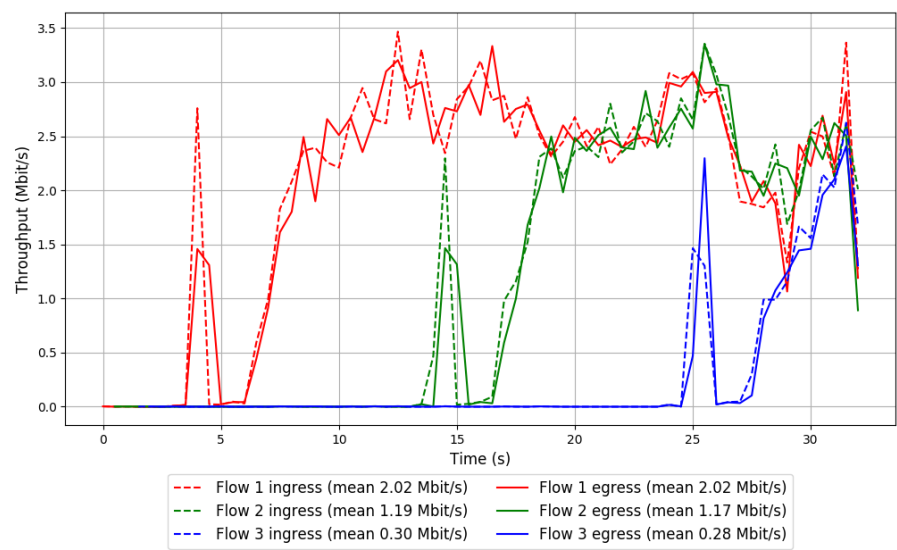
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 141.718 ms

Loss rate: 6.86%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 01:22:20 +0000

End at: Mon, 10 Jul 2017 01:22:50 +0000

Local clock offset: -0.573 ms

Remote clock offset: -1.689 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:56 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 141.202 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 141.086 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 141.320 ms

Loss rate: 1.33%

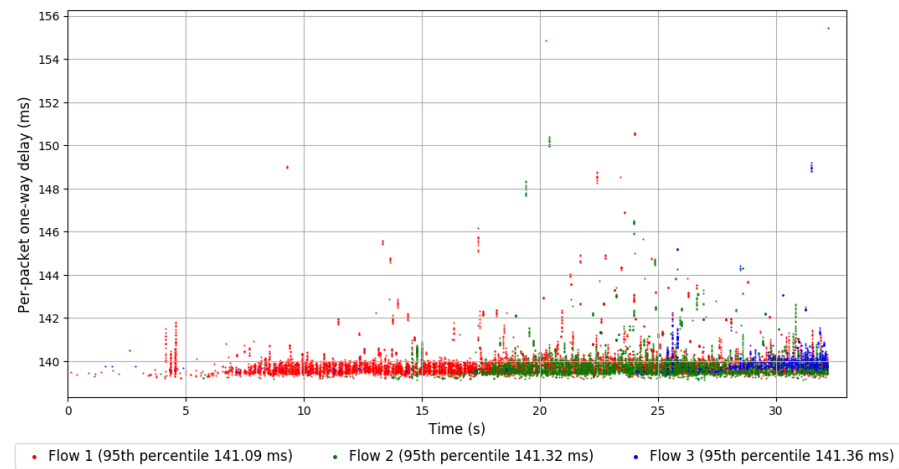
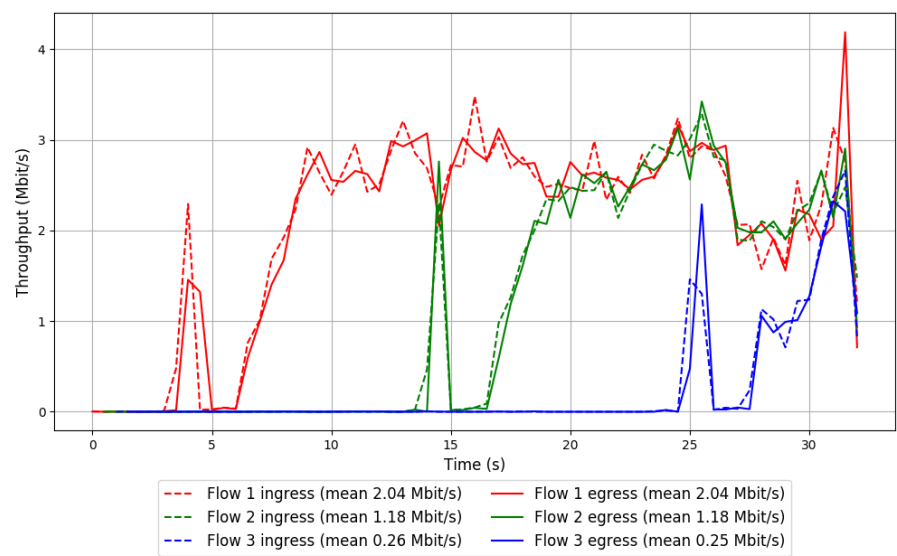
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 141.360 ms

Loss rate: 3.94%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 01:42:11 +0000

End at: Mon, 10 Jul 2017 01:42:41 +0000

Local clock offset: 0.416 ms

Remote clock offset: -0.025 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 143.229 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 143.096 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 143.390 ms

Loss rate: 1.58%

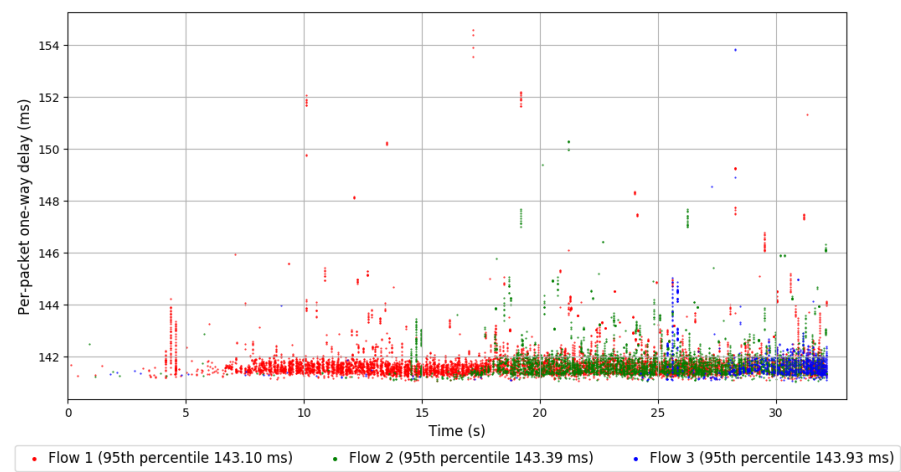
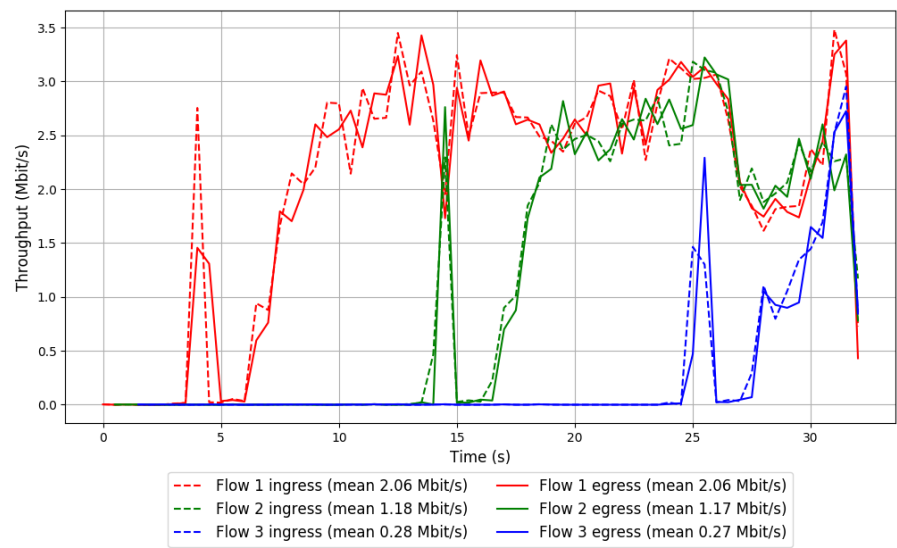
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 143.929 ms

Loss rate: 4.93%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

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

Local clock offset: -0.874 ms

Remote clock offset: -0.269 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 143.135 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 142.924 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 143.611 ms

Loss rate: 1.49%

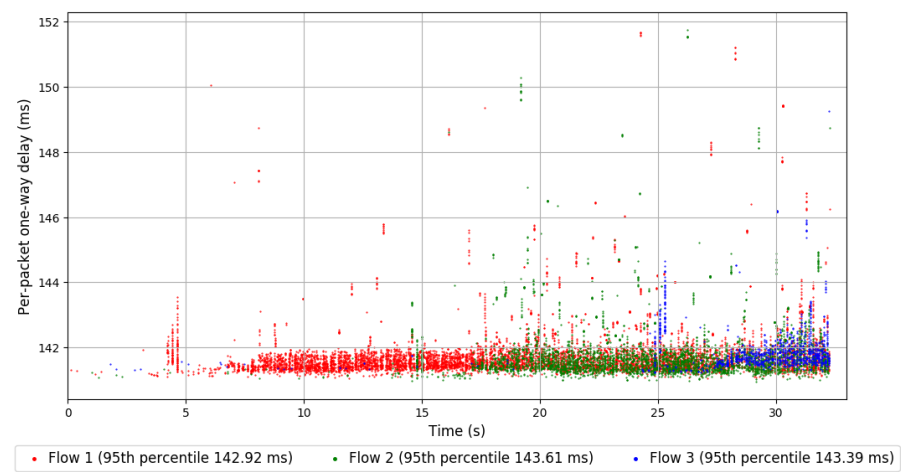
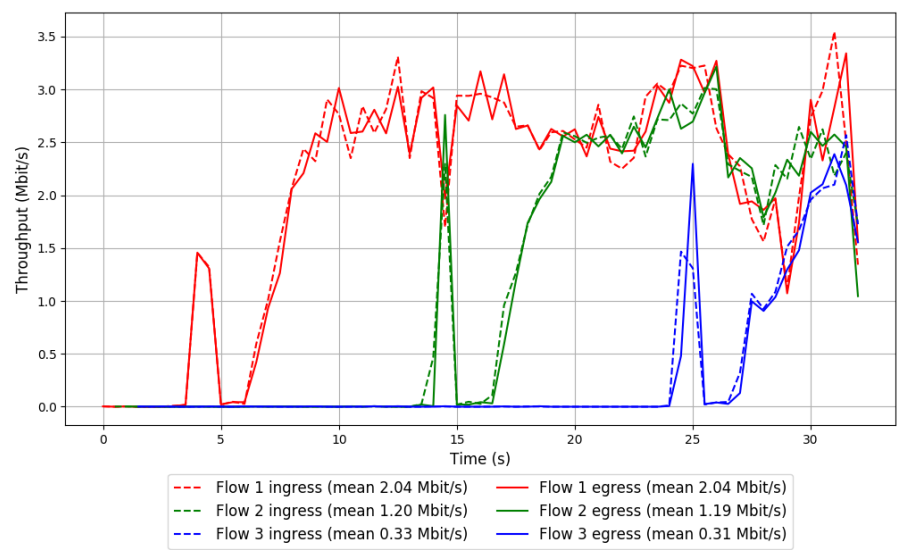
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 143.386 ms

Loss rate: 5.06%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: Mon, 10 Jul 2017 02:21:56 +0000

End at: Mon, 10 Jul 2017 02:22:26 +0000

Local clock offset: 0.219 ms

Remote clock offset: -0.445 ms

Below is generated by plot.py at Mon, 10 Jul 2017 03:09:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 142.893 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 142.991 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 142.702 ms

Loss rate: 1.18%

-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 144.338 ms

Loss rate: 4.31%

Run 10: Report of WebRTC media — Data Link

