

Pantheon Summary (Generated at Tue, 01 Aug 2017 10:29:58 +0000 with pantheon version 33c7b8d34ce04c76596315aa973f0b30d6129d55)

Repeated the test of 15 congestion control schemes 10 times.

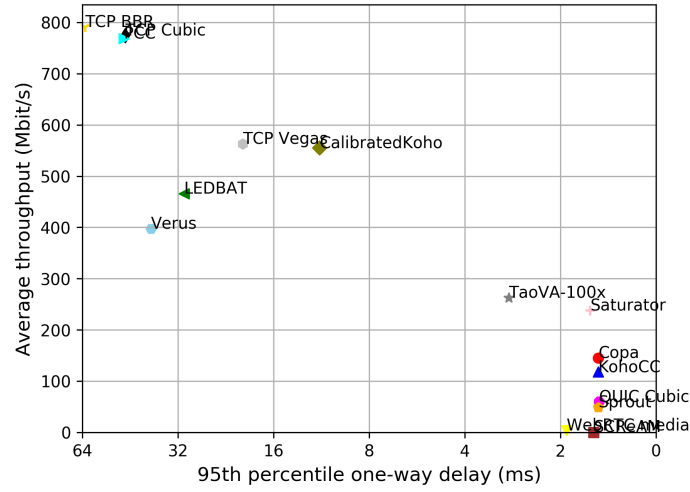
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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

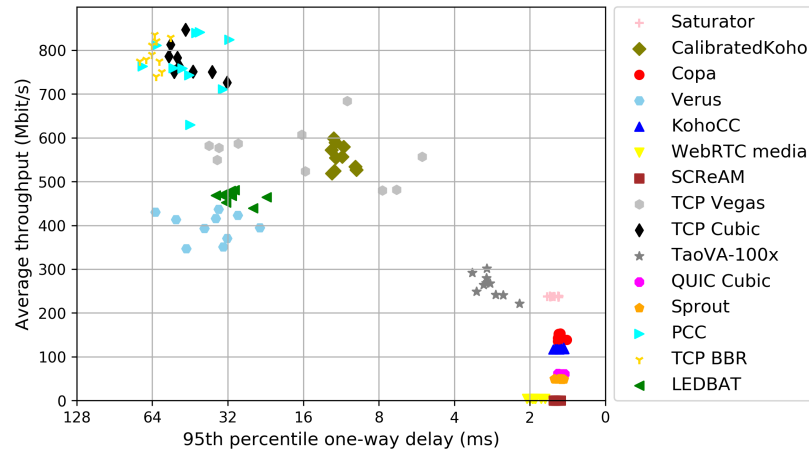
NTP offset measured against time.stanford.edu and has been applied to correct the timestamps in logs.

```
git branch: master @ 33c7b8d34ce04c76596315aa973f0b30d6129d55
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
  M scripts/merge-tunnel-logs
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	448.32	373.61	283.46	49.87	63.16	81.85	0.17	0.28	0.61
CalibratedKoho	10	322.63	261.96	177.00	10.64	12.09	14.23	0.06	0.11	0.28
Copa	10	75.35	71.36	68.42	1.19	1.22	1.23	0.05	0.09	0.21
TCP Cubic	10	407.61	395.71	291.80	40.10	44.25	61.26	0.10	0.17	0.40
KohoCC	10	59.04	59.50	58.69	1.21	1.20	1.26	0.06	0.09	0.19
LEDBAT	10	271.21	215.36	156.40	27.08	33.64	34.79	0.11	0.21	0.51
PCC	10	556.93	256.95	123.58	52.98	15.53	9.83	2.19	0.51	0.60
QUIC Cubic	10	0.30	65.77	50.97	1.22	1.20	1.19	0.00	0.08	0.21
Saturator	10	119.16	119.23	118.68	1.39	1.33	1.39	0.07	0.10	0.20
SCReAM	10	0.22	0.22	0.22	1.31	1.29	1.28	0.03	0.02	0.14
Sprout	10	24.74	24.55	24.45	1.20	1.22	1.22	0.10	0.15	0.23
TaoVA-100x	10	159.71	110.92	88.10	2.50	3.53	2.19	0.03	0.05	0.18
TCP Vegas	10	277.67	284.18	289.87	9.44	13.96	10.94	0.06	0.08	0.21
Verus	10	238.61	172.05	135.48	43.65	28.26	34.39	0.61	0.14	0.29
WebRTC media	10	2.35	1.42	0.44	1.77	1.92	2.44	0.11	0.18	0.38

Run 1: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 03:21:53 +0000

End at: Tue, 01 Aug 2017 03:22:23 +0000

Local clock offset: -0.094 ms

Remote clock offset: -0.952 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:32:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 774.74 Mbit/s

95th percentile per-packet one-way delay: 71.851 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 469.86 Mbit/s

95th percentile per-packet one-way delay: 44.537 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 321.80 Mbit/s

95th percentile per-packet one-way delay: 79.377 ms

Loss rate: 0.05%

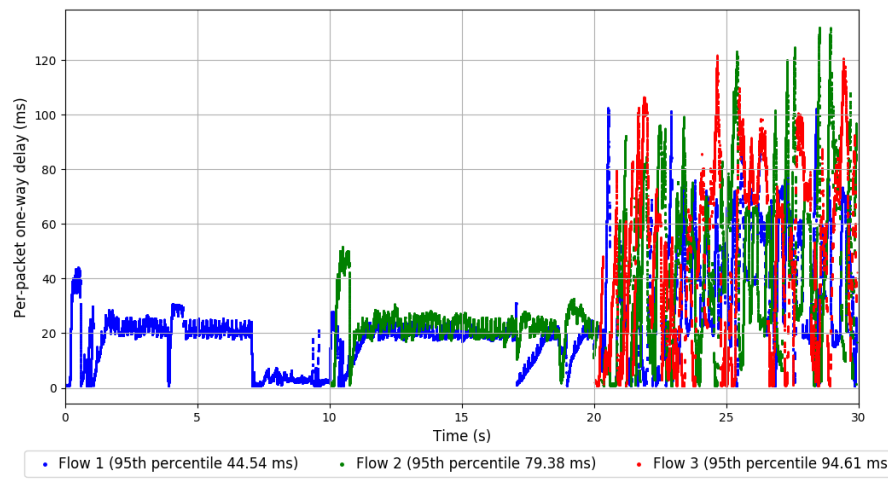
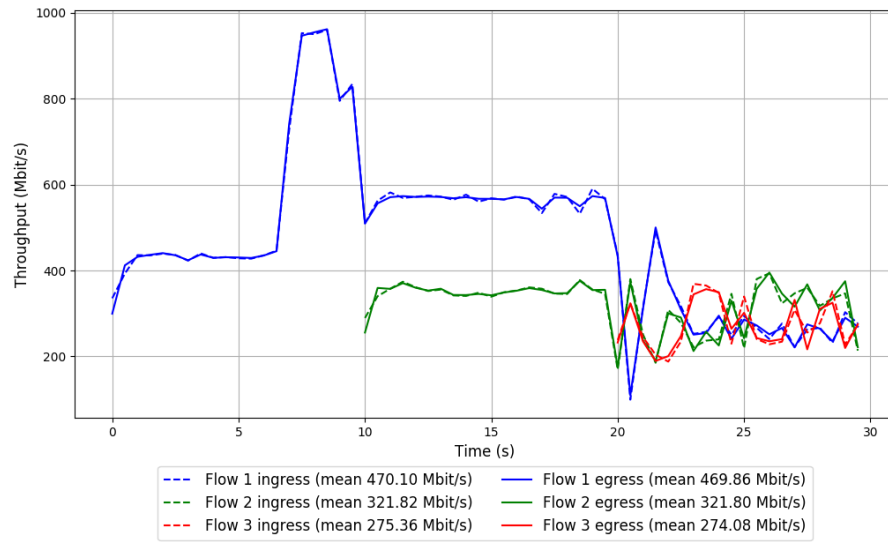
-- Flow 3:

Average throughput: 274.08 Mbit/s

95th percentile per-packet one-way delay: 94.614 ms

Loss rate: 0.71%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 03:44:19 +0000

End at: Tue, 01 Aug 2017 03:44:49 +0000

Local clock offset: -0.16 ms

Remote clock offset: -1.003 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:32:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 821.36 Mbit/s

95th percentile per-packet one-way delay: 61.567 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 505.95 Mbit/s

95th percentile per-packet one-way delay: 42.710 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 324.52 Mbit/s

95th percentile per-packet one-way delay: 65.933 ms

Loss rate: 0.22%

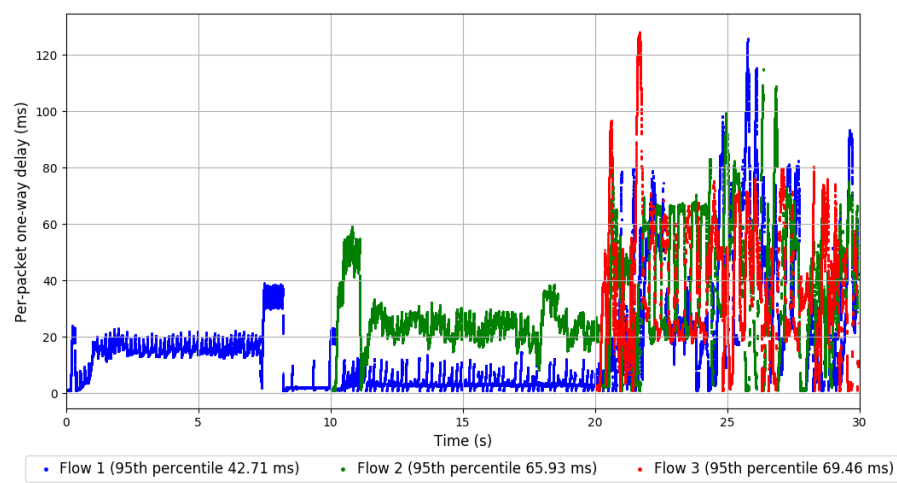
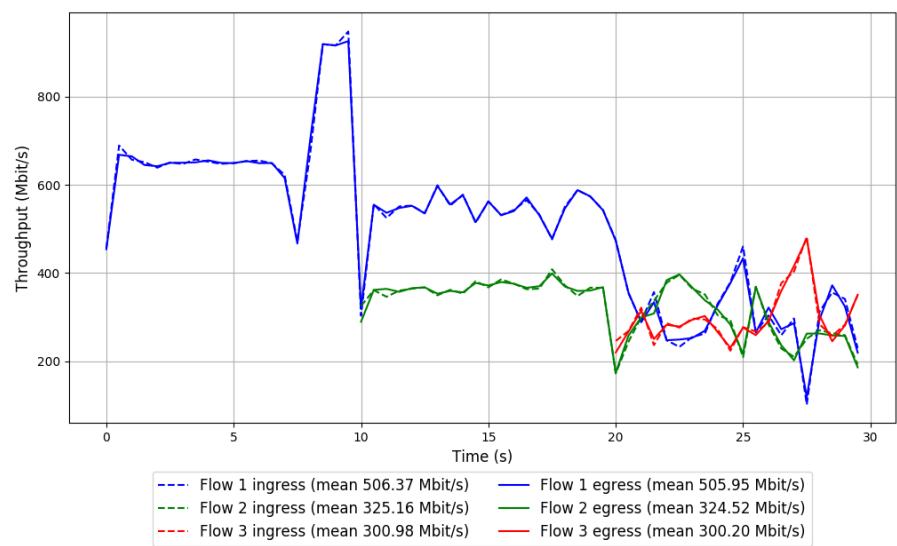
-- Flow 3:

Average throughput: 300.20 Mbit/s

95th percentile per-packet one-way delay: 69.459 ms

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 04:06:58 +0000

End at: Tue, 01 Aug 2017 04:07:28 +0000

Local clock offset: -0.042 ms

Remote clock offset: -1.155 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:34:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 828.98 Mbit/s

95th percentile per-packet one-way delay: 54.058 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 527.97 Mbit/s

95th percentile per-packet one-way delay: 33.469 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 312.43 Mbit/s

95th percentile per-packet one-way delay: 57.905 ms

Loss rate: 0.36%

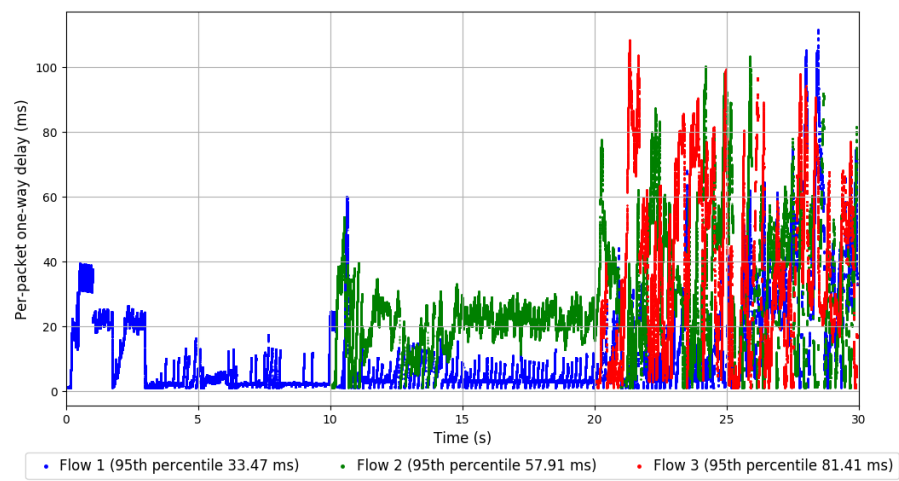
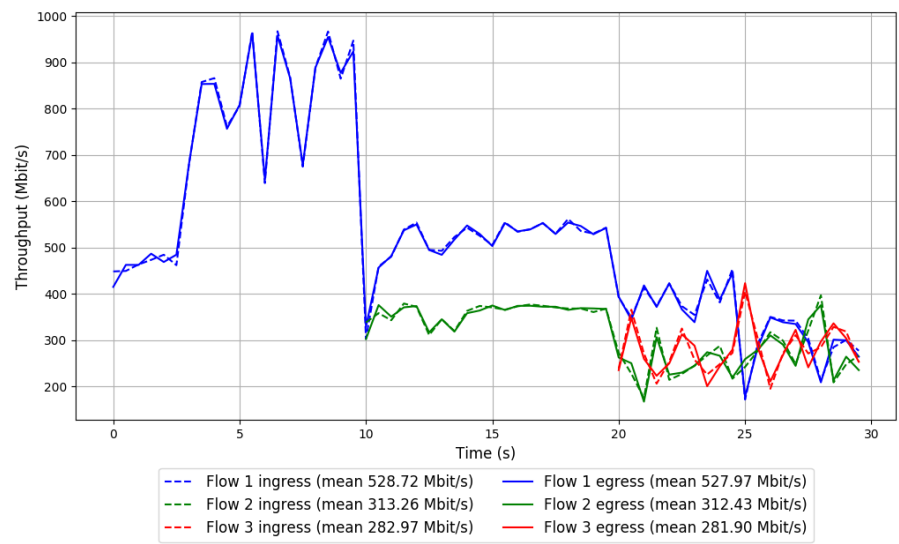
-- Flow 3:

Average throughput: 281.90 Mbit/s

95th percentile per-packet one-way delay: 81.413 ms

Loss rate: 0.48%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 04:29:44 +0000

End at: Tue, 01 Aug 2017 04:30:14 +0000

Local clock offset: -0.108 ms

Remote clock offset: -1.153 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:34:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 811.17 Mbit/s

95th percentile per-packet one-way delay: 64.363 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 500.17 Mbit/s

95th percentile per-packet one-way delay: 47.589 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 319.45 Mbit/s

95th percentile per-packet one-way delay: 62.258 ms

Loss rate: 0.49%

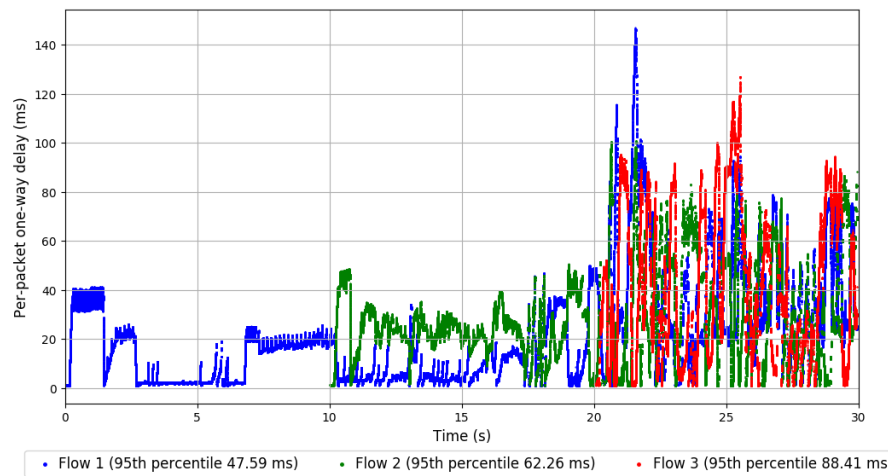
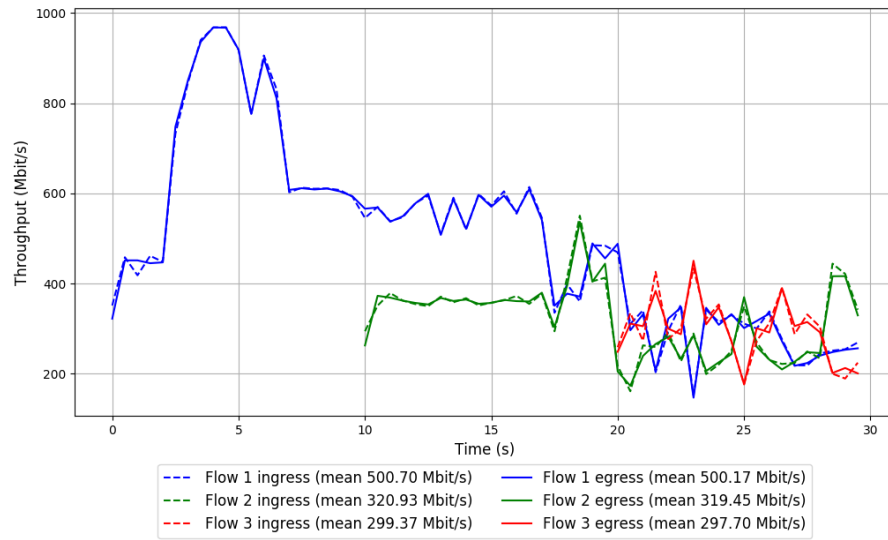
-- Flow 3:

Average throughput: 297.70 Mbit/s

95th percentile per-packet one-way delay: 88.414 ms

Loss rate: 0.66%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 04:52:10 +0000

End at: Tue, 01 Aug 2017 04:52:40 +0000

Local clock offset: -0.279 ms

Remote clock offset: -1.082 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:35:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 740.34 Mbit/s

95th percentile per-packet one-way delay: 61.922 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 378.66 Mbit/s

95th percentile per-packet one-way delay: 51.639 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 417.01 Mbit/s

95th percentile per-packet one-way delay: 61.862 ms

Loss rate: 0.21%

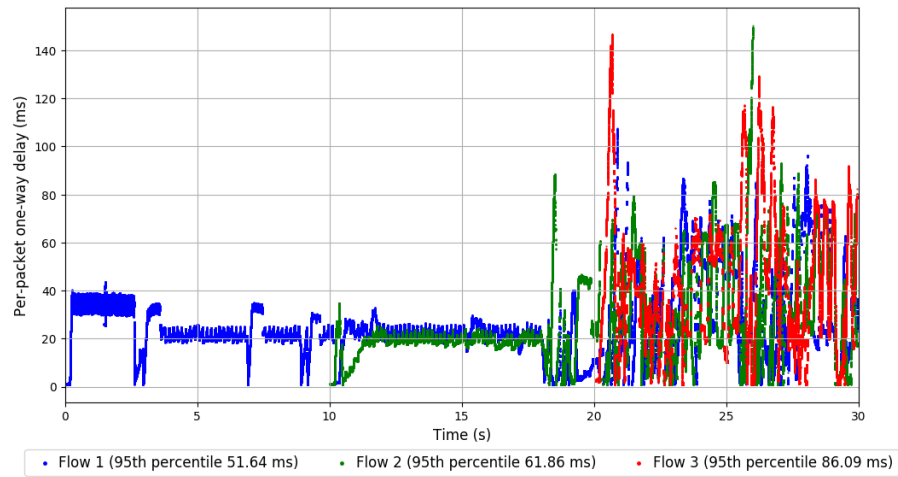
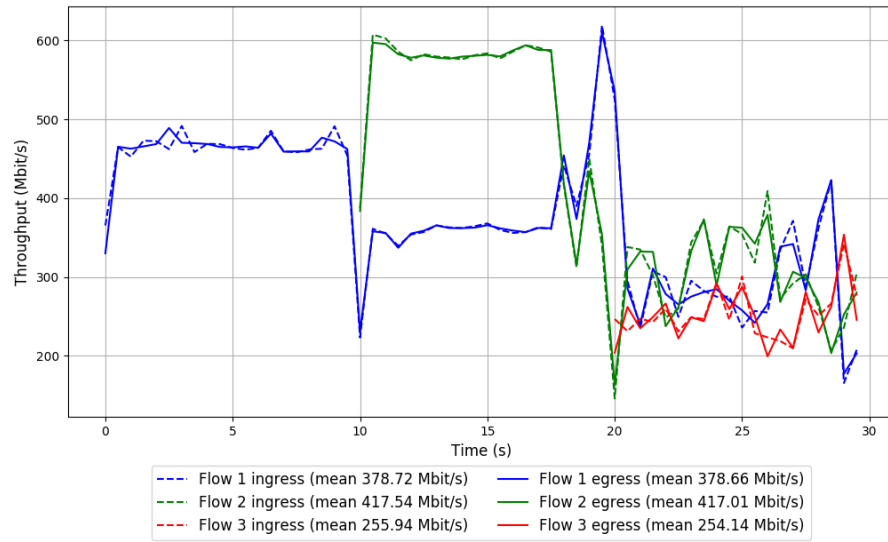
-- Flow 3:

Average throughput: 254.14 Mbit/s

95th percentile per-packet one-way delay: 86.092 ms

Loss rate: 0.93%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 05:14:46 +0000

End at: Tue, 01 Aug 2017 05:15:16 +0000

Local clock offset: -0.32 ms

Remote clock offset: -1.197 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:36:14 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 836.01 Mbit/s

95th percentile per-packet one-way delay: 62.610 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 487.40 Mbit/s

95th percentile per-packet one-way delay: 49.886 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 391.54 Mbit/s

95th percentile per-packet one-way delay: 62.424 ms

Loss rate: 0.29%

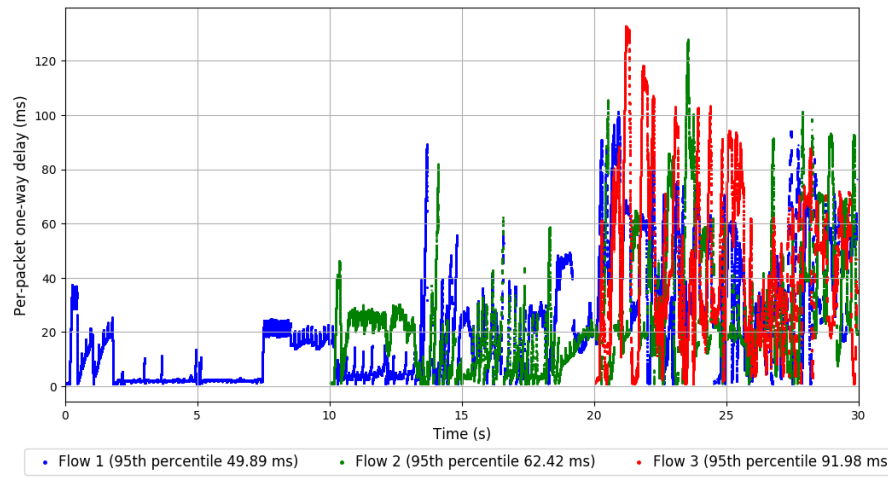
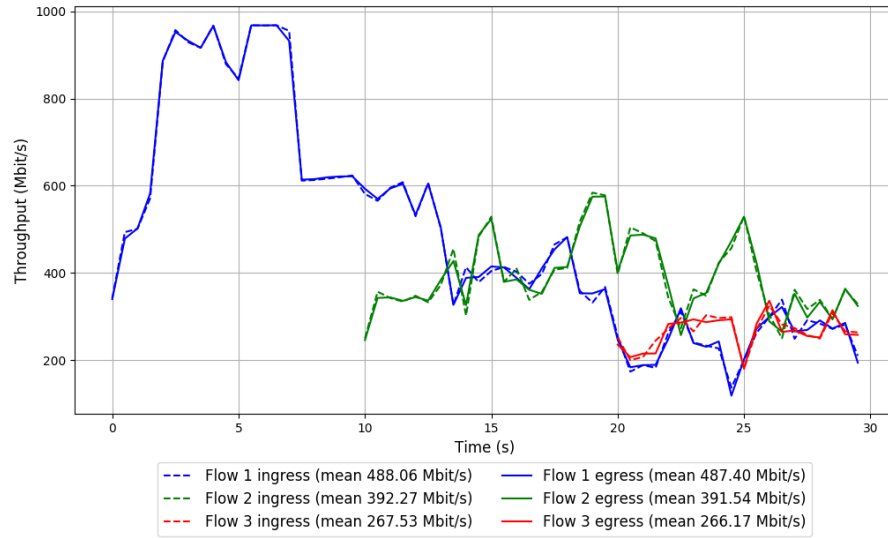
-- Flow 3:

Average throughput: 266.17 Mbit/s

95th percentile per-packet one-way delay: 91.983 ms

Loss rate: 0.61%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 05:37:12 +0000

End at: Tue, 01 Aug 2017 05:37:42 +0000

Local clock offset: -0.207 ms

Remote clock offset: -0.72 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:37:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 790.42 Mbit/s

95th percentile per-packet one-way delay: 64.361 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 408.52 Mbit/s

95th percentile per-packet one-way delay: 54.435 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 436.26 Mbit/s

95th percentile per-packet one-way delay: 59.143 ms

Loss rate: 0.26%

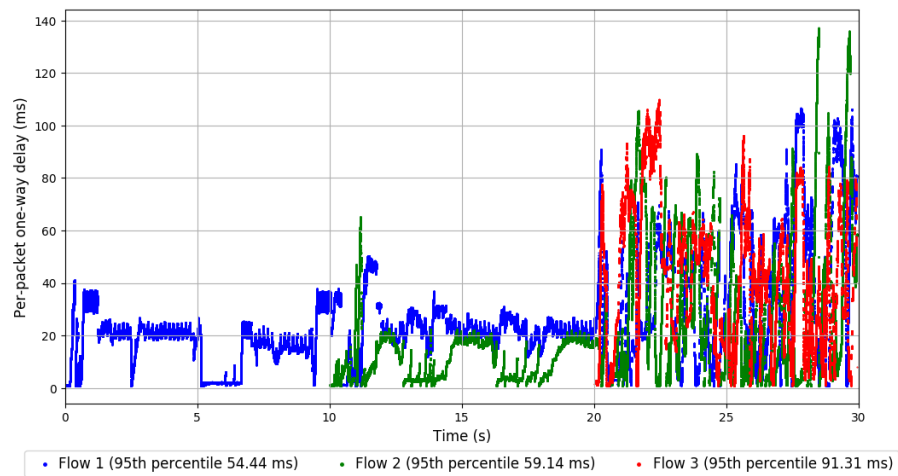
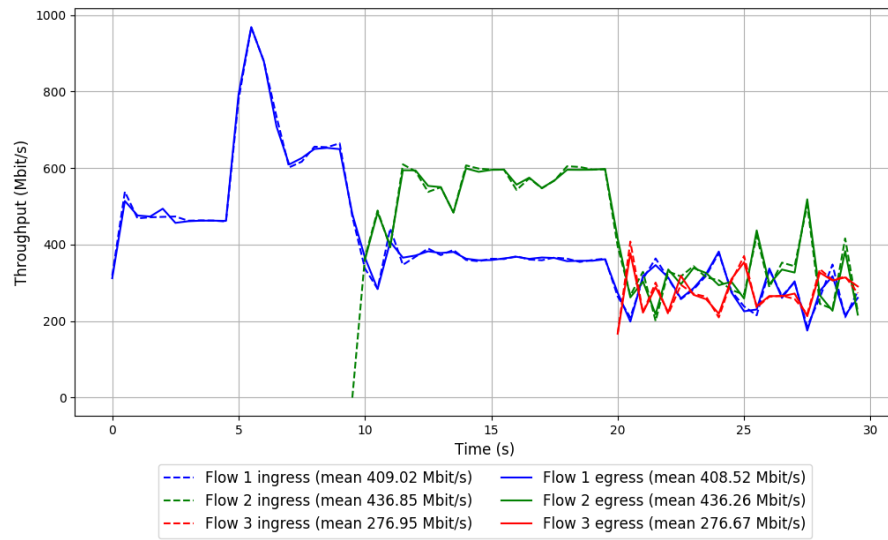
-- Flow 3:

Average throughput: 276.67 Mbit/s

95th percentile per-packet one-way delay: 91.309 ms

Loss rate: 0.14%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 05:59:42 +0000

End at: Tue, 01 Aug 2017 06:00:12 +0000

Local clock offset: 0.098 ms

Remote clock offset: -0.399 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:37:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 774.61 Mbit/s

95th percentile per-packet one-way delay: 60.131 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 409.34 Mbit/s

95th percentile per-packet one-way delay: 54.948 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 400.41 Mbit/s

95th percentile per-packet one-way delay: 58.314 ms

Loss rate: 0.22%

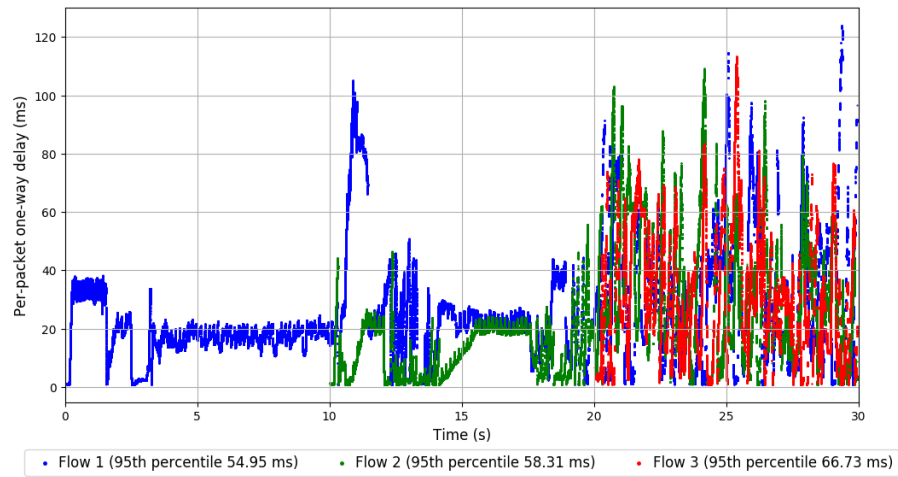
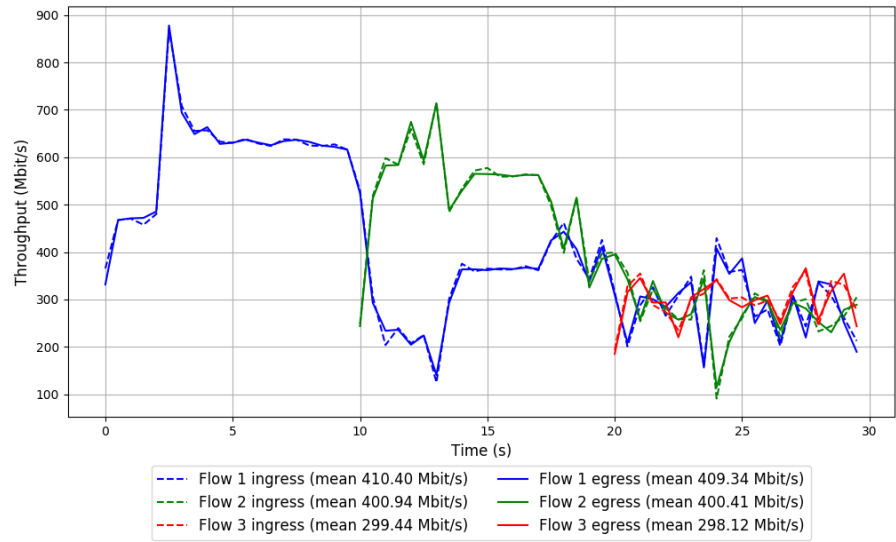
-- Flow 3:

Average throughput: 298.12 Mbit/s

95th percentile per-packet one-way delay: 66.728 ms

Loss rate: 0.69%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 06:22:17 +0000

End at: Tue, 01 Aug 2017 06:22:47 +0000

Local clock offset: 0.497 ms

Remote clock offset: -0.401 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:38:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 778.64 Mbit/s

95th percentile per-packet one-way delay: 67.740 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 390.31 Mbit/s

95th percentile per-packet one-way delay: 67.723 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 452.98 Mbit/s

95th percentile per-packet one-way delay: 59.424 ms

Loss rate: 0.24%

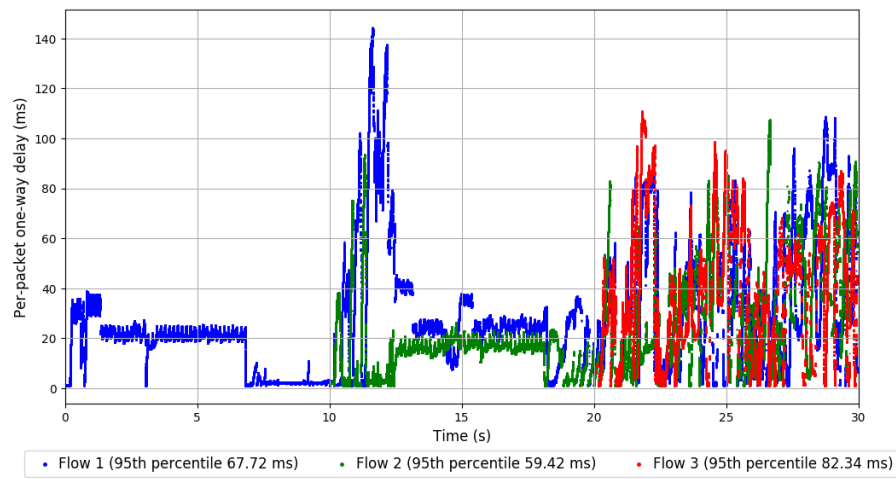
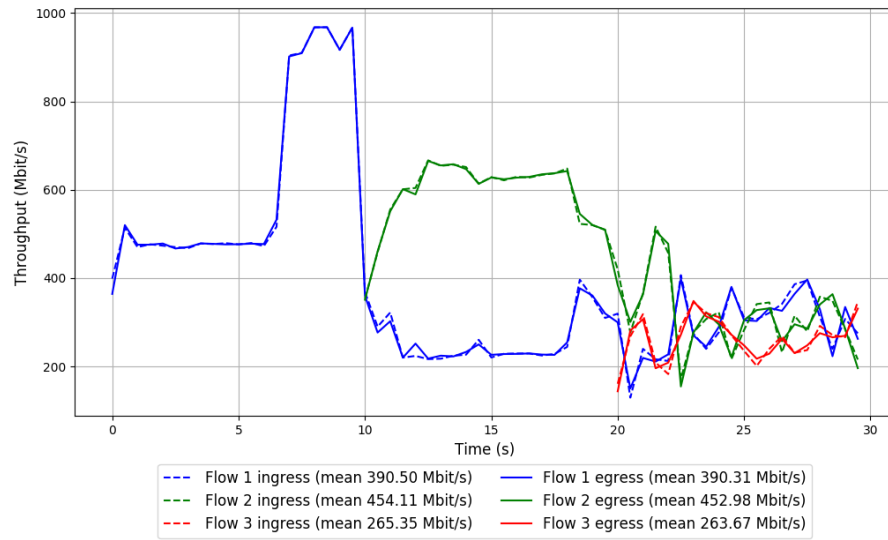
-- Flow 3:

Average throughput: 263.67 Mbit/s

95th percentile per-packet one-way delay: 82.337 ms

Loss rate: 0.89%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: Tue, 01 Aug 2017 06:44:49 +0000

End at: Tue, 01 Aug 2017 06:45:20 +0000

Local clock offset: 0.72 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:39:34 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 750.92 Mbit/s

95th percentile per-packet one-way delay: 58.749 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 405.00 Mbit/s

95th percentile per-packet one-way delay: 51.725 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 359.73 Mbit/s

95th percentile per-packet one-way delay: 64.987 ms

Loss rate: 0.48%

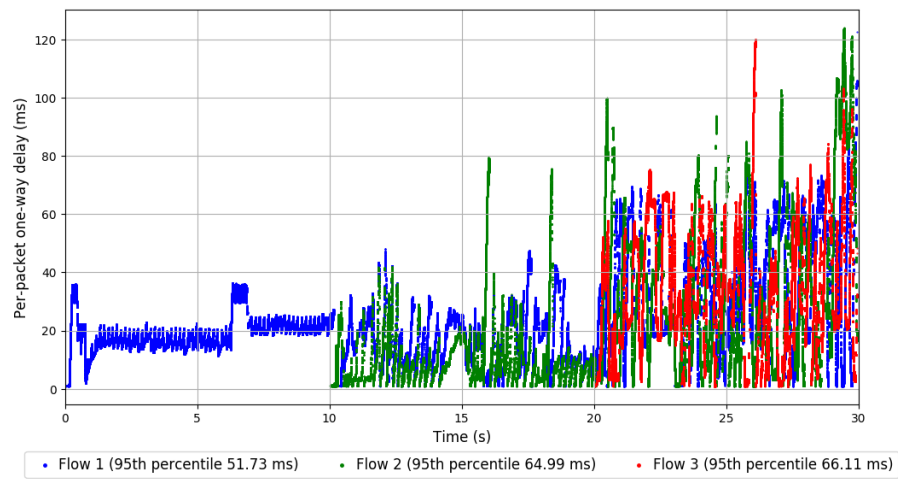
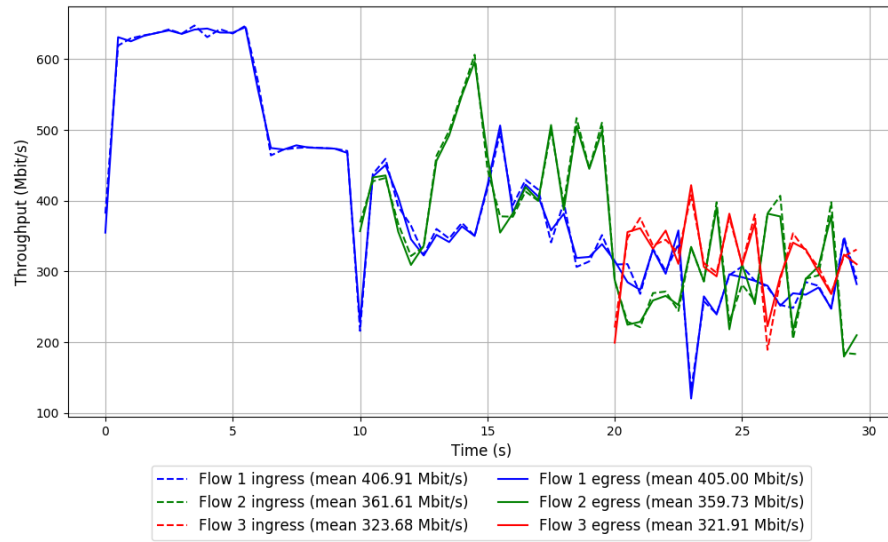
-- Flow 3:

Average throughput: 321.91 Mbit/s

95th percentile per-packet one-way delay: 66.109 ms

Loss rate: 0.62%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 03:07:12 +0000

End at: Tue, 01 Aug 2017 03:07:42 +0000

Local clock offset: 0.058 ms

Remote clock offset: -1.272 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:40:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.89 Mbit/s

95th percentile per-packet one-way delay: 9.840 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 221.02 Mbit/s

95th percentile per-packet one-way delay: 10.542 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 405.89 Mbit/s

95th percentile per-packet one-way delay: 9.601 ms

Loss rate: 0.11%

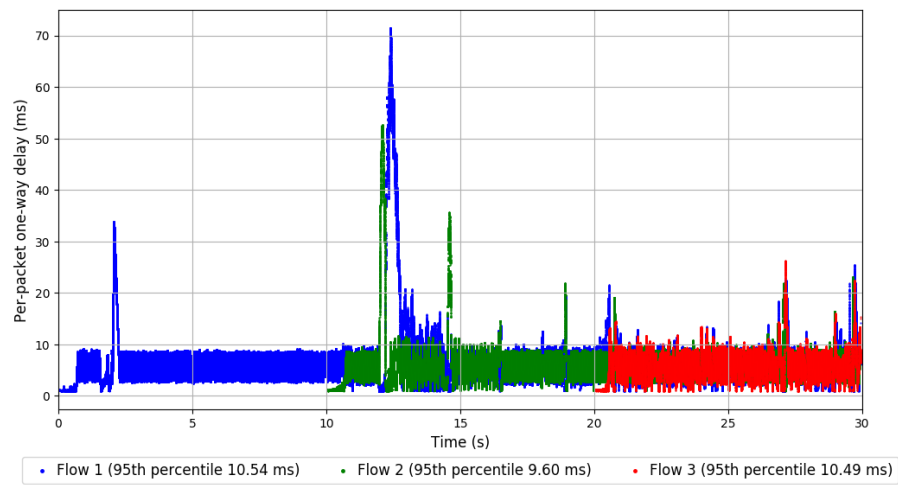
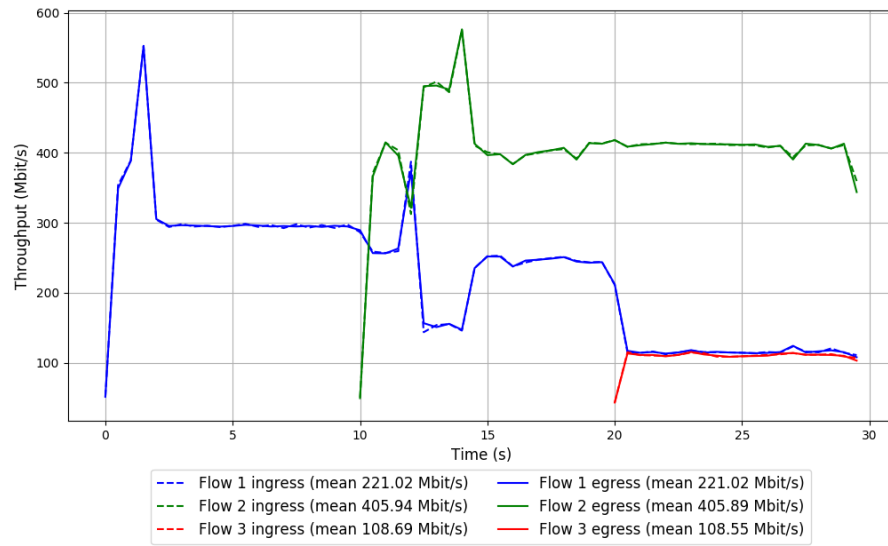
-- Flow 3:

Average throughput: 108.55 Mbit/s

95th percentile per-packet one-way delay: 10.489 ms

Loss rate: 0.24%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 03:29:32 +0000

End at: Tue, 01 Aug 2017 03:30:02 +0000

Local clock offset: -0.107 ms

Remote clock offset: -0.881 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:40:43 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 518.92 Mbit/s

95th percentile per-packet one-way delay: 12.320 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 321.96 Mbit/s

95th percentile per-packet one-way delay: 10.618 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 213.40 Mbit/s

95th percentile per-packet one-way delay: 12.213 ms

Loss rate: 0.13%

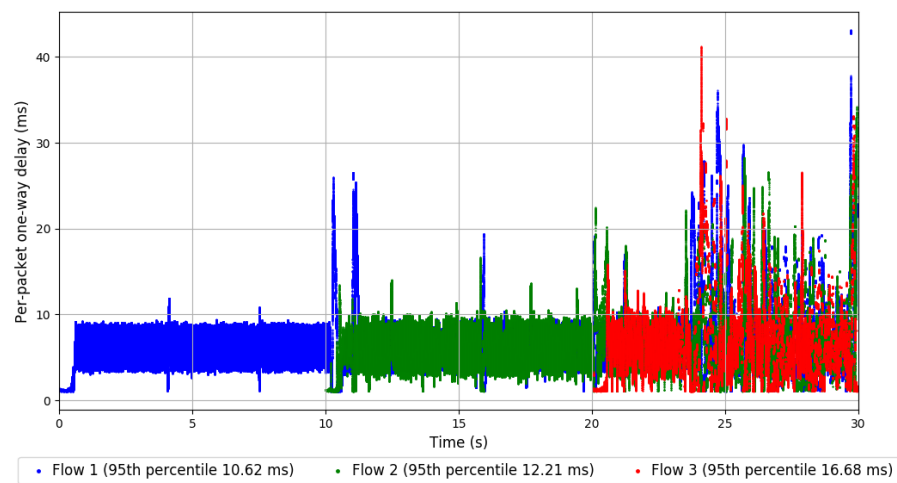
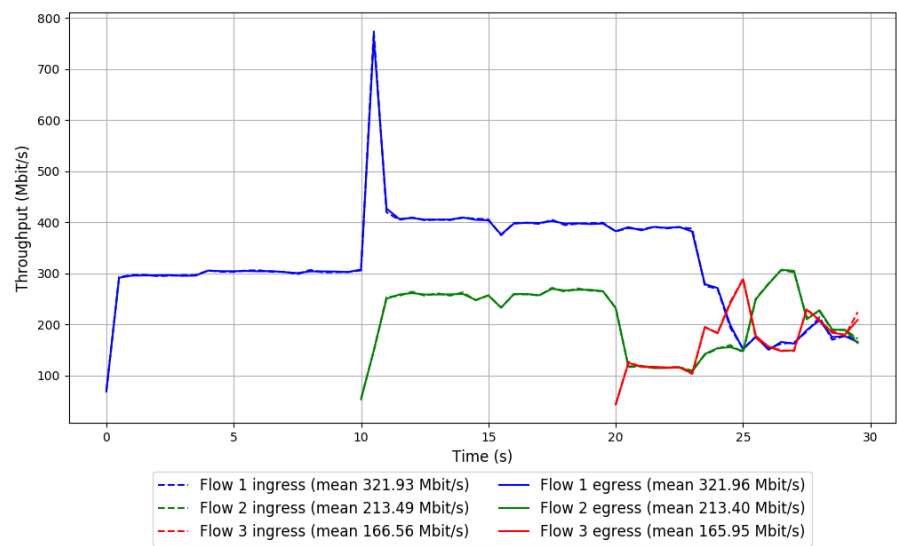
-- Flow 3:

Average throughput: 165.95 Mbit/s

95th percentile per-packet one-way delay: 16.684 ms

Loss rate: 0.50%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 03:51:59 +0000

End at: Tue, 01 Aug 2017 03:52:29 +0000

Local clock offset: -0.054 ms

Remote clock offset: -0.88 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:41:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 598.61 Mbit/s

95th percentile per-packet one-way delay: 12.117 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 377.47 Mbit/s

95th percentile per-packet one-way delay: 10.670 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 204.88 Mbit/s

95th percentile per-packet one-way delay: 12.301 ms

Loss rate: 0.10%

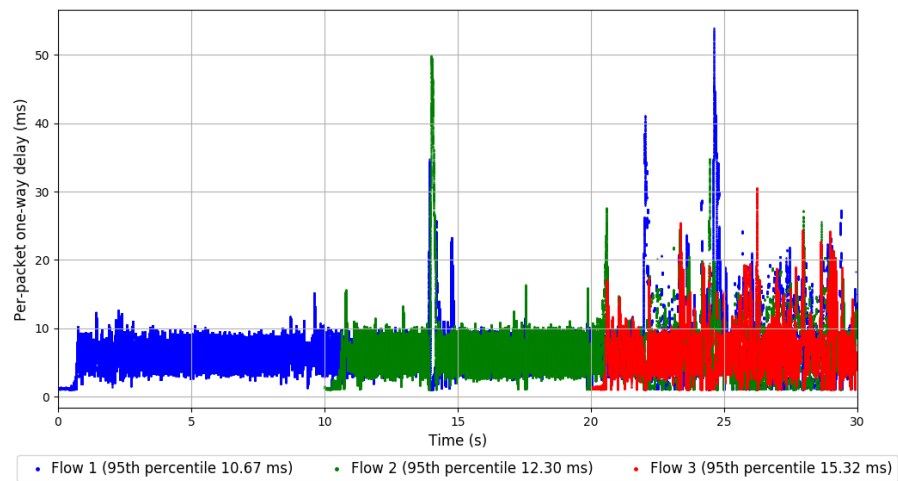
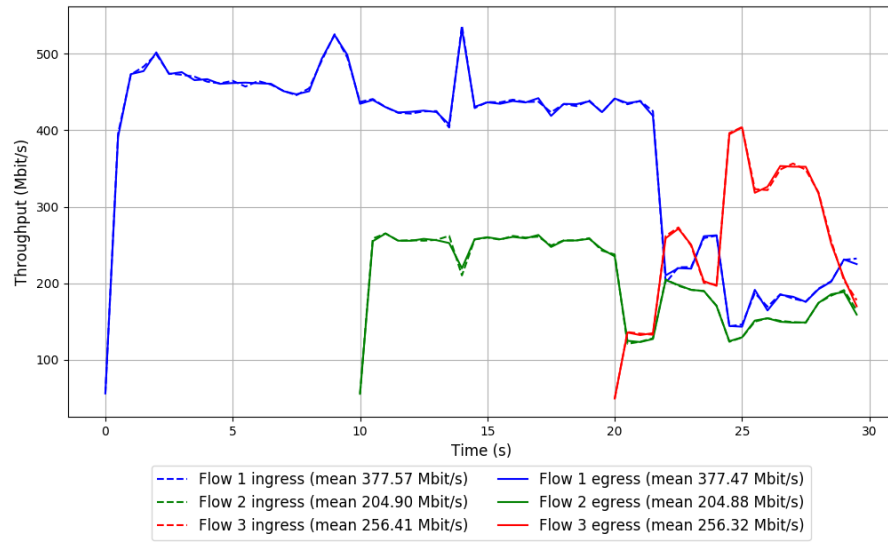
-- Flow 3:

Average throughput: 256.32 Mbit/s

95th percentile per-packet one-way delay: 15.322 ms

Loss rate: 0.23%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 04:14:49 +0000

End at: Tue, 01 Aug 2017 04:15:19 +0000

Local clock offset: -0.149 ms

Remote clock offset: -1.221 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:41:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 579.32 Mbit/s

95th percentile per-packet one-way delay: 11.062 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 277.30 Mbit/s

95th percentile per-packet one-way delay: 10.885 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 386.18 Mbit/s

95th percentile per-packet one-way delay: 10.958 ms

Loss rate: 0.14%

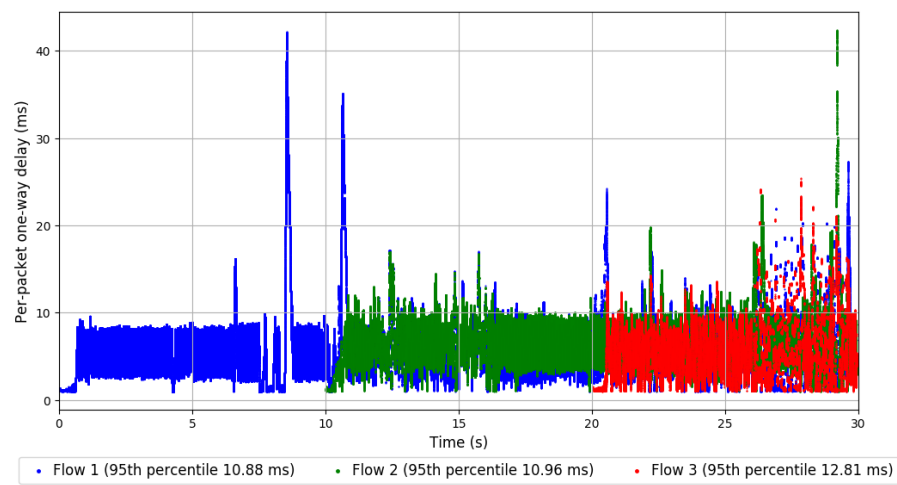
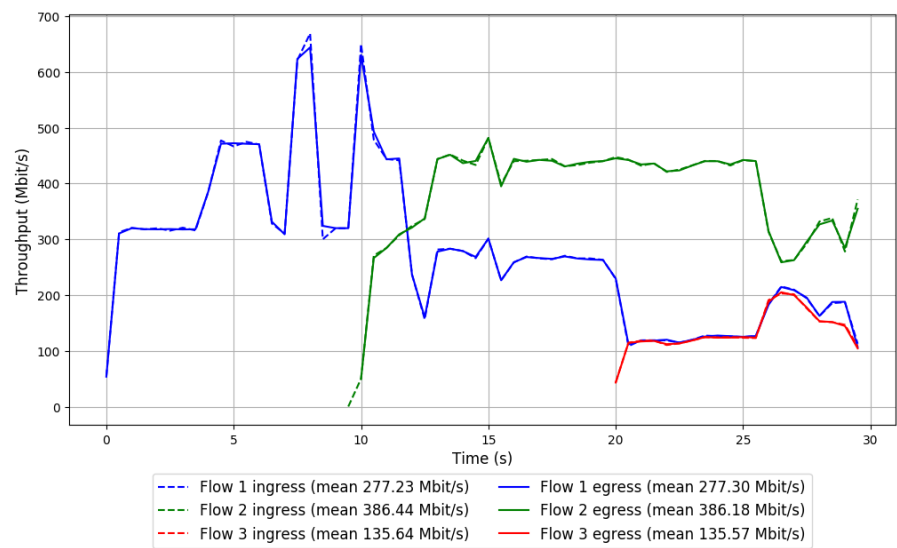
-- Flow 3:

Average throughput: 135.57 Mbit/s

95th percentile per-packet one-way delay: 12.814 ms

Loss rate: 0.23%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 04:37:28 +0000

End at: Tue, 01 Aug 2017 04:37:58 +0000

Local clock offset: -0.277 ms

Remote clock offset: -0.961 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:42:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 533.82 Mbit/s

95th percentile per-packet one-way delay: 9.941 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 271.79 Mbit/s

95th percentile per-packet one-way delay: 9.624 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 327.20 Mbit/s

95th percentile per-packet one-way delay: 9.644 ms

Loss rate: 0.04%

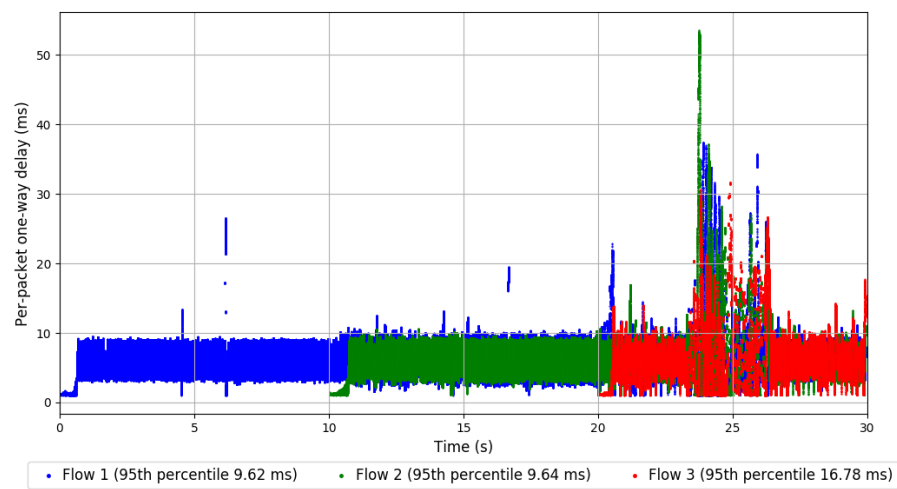
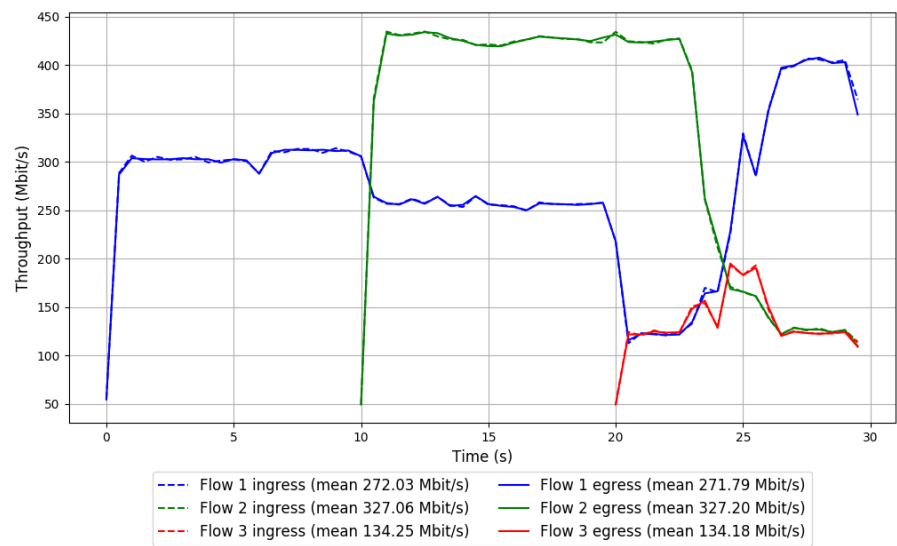
-- Flow 3:

Average throughput: 134.18 Mbit/s

95th percentile per-packet one-way delay: 16.784 ms

Loss rate: 0.23%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 04:59:47 +0000

End at: Tue, 01 Aug 2017 05:00:17 +0000

Local clock offset: -0.311 ms

Remote clock offset: -1.175 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:43:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 572.35 Mbit/s

95th percentile per-packet one-way delay: 12.355 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 327.36 Mbit/s

95th percentile per-packet one-way delay: 10.870 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 238.55 Mbit/s

95th percentile per-packet one-way delay: 13.007 ms

Loss rate: 0.18%

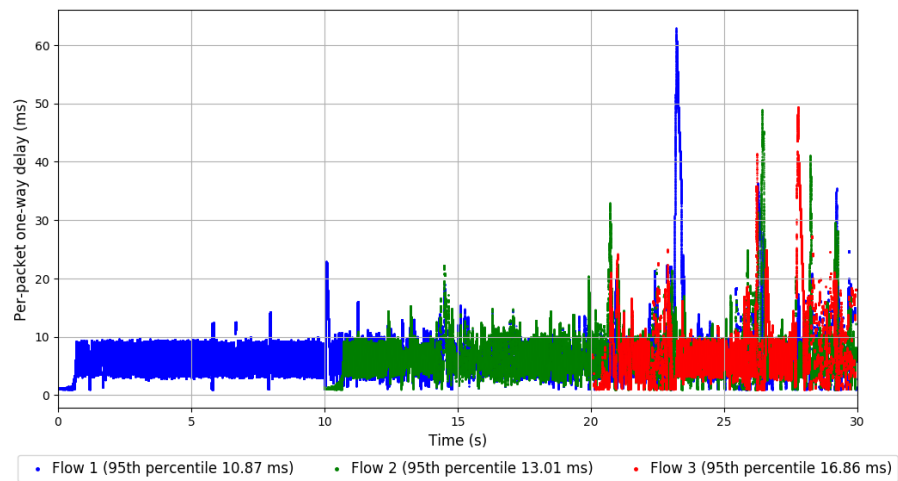
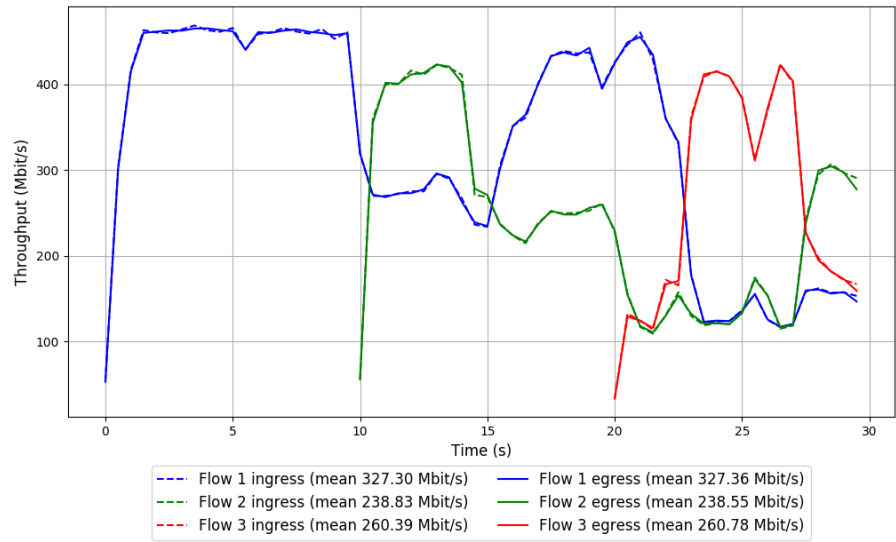
-- Flow 3:

Average throughput: 260.78 Mbit/s

95th percentile per-packet one-way delay: 16.857 ms

Loss rate: 0.19%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 05:22:24 +0000

End at: Tue, 01 Aug 2017 05:22:54 +0000

Local clock offset: -0.294 ms

Remote clock offset: -1.016 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:43:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 556.70 Mbit/s

95th percentile per-packet one-way delay: 11.209 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 372.12 Mbit/s

95th percentile per-packet one-way delay: 10.262 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 192.40 Mbit/s

95th percentile per-packet one-way delay: 11.798 ms

Loss rate: 0.10%

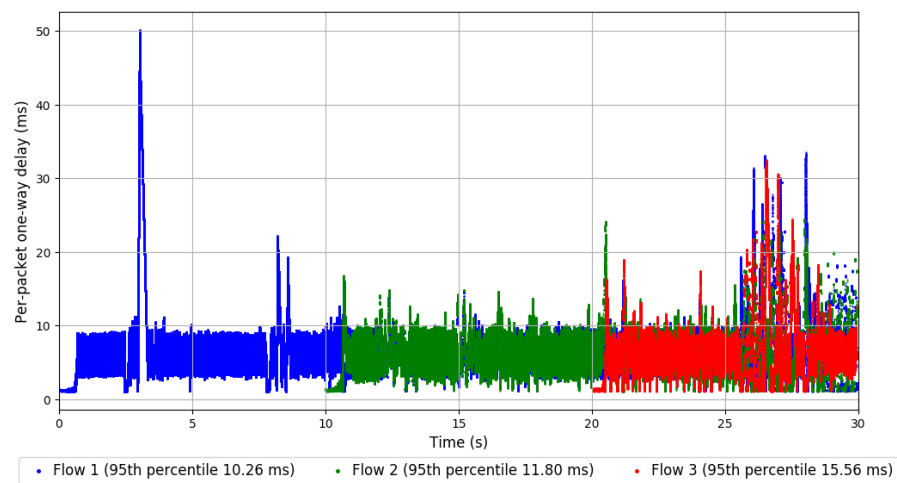
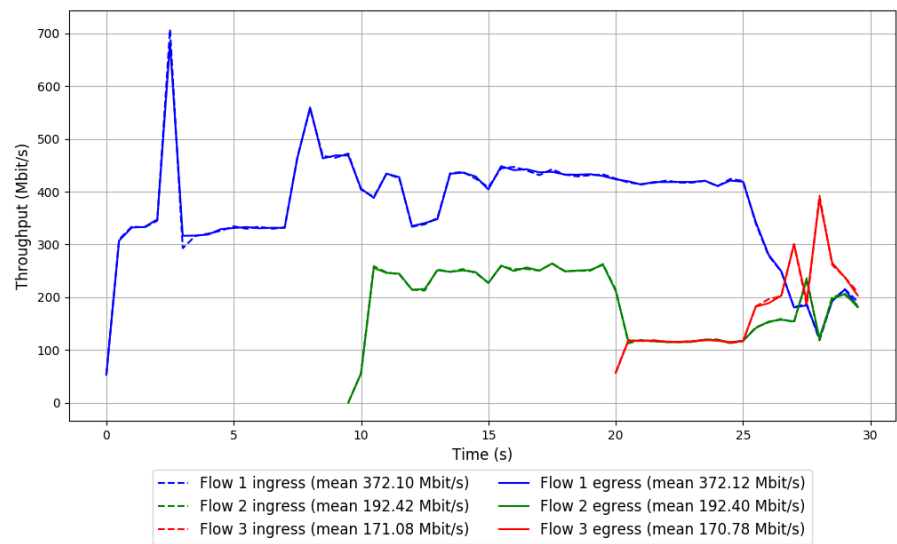
-- Flow 3:

Average throughput: 170.78 Mbit/s

95th percentile per-packet one-way delay: 15.560 ms

Loss rate: 0.30%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 05:44:53 +0000

End at: Tue, 01 Aug 2017 05:45:23 +0000

Local clock offset: -0.145 ms

Remote clock offset: -0.634 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:44:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 524.70 Mbit/s

95th percentile per-packet one-way delay: 12.045 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 309.89 Mbit/s

95th percentile per-packet one-way delay: 11.019 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 253.27 Mbit/s

95th percentile per-packet one-way delay: 12.557 ms

Loss rate: 0.05%

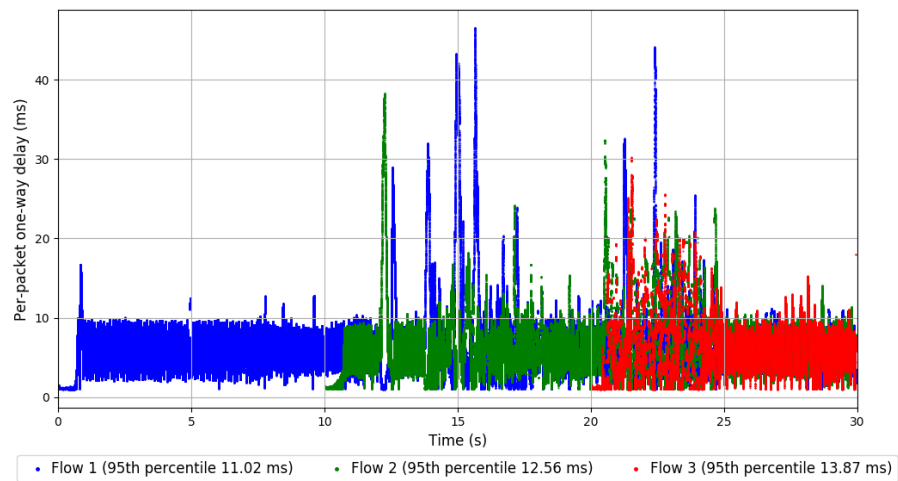
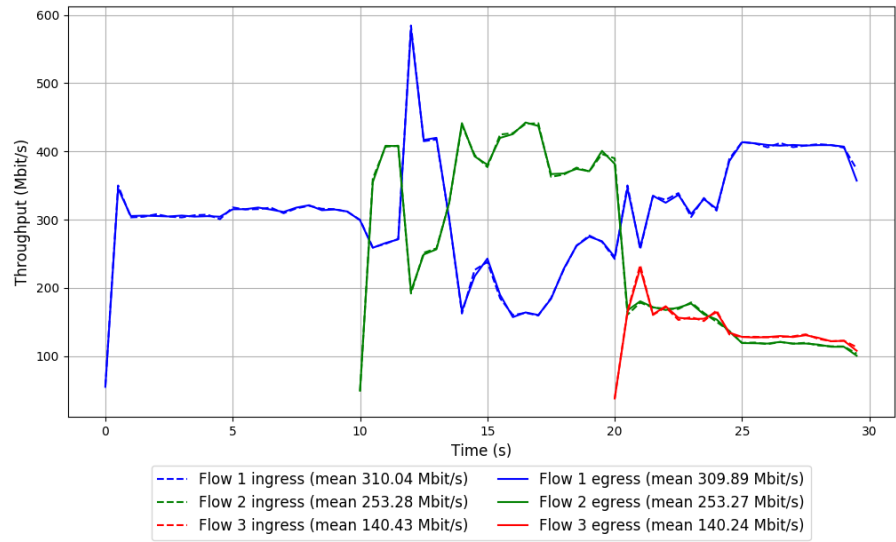
-- Flow 3:

Average throughput: 140.24 Mbit/s

95th percentile per-packet one-way delay: 13.865 ms

Loss rate: 0.23%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 06:07:20 +0000

End at: Tue, 01 Aug 2017 06:07:50 +0000

Local clock offset: 0.23 ms

Remote clock offset: -0.262 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:44:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 554.30 Mbit/s

95th percentile per-packet one-way delay: 11.865 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 332.42 Mbit/s

95th percentile per-packet one-way delay: 11.195 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 201.37 Mbit/s

95th percentile per-packet one-way delay: 14.283 ms

Loss rate: 0.10%

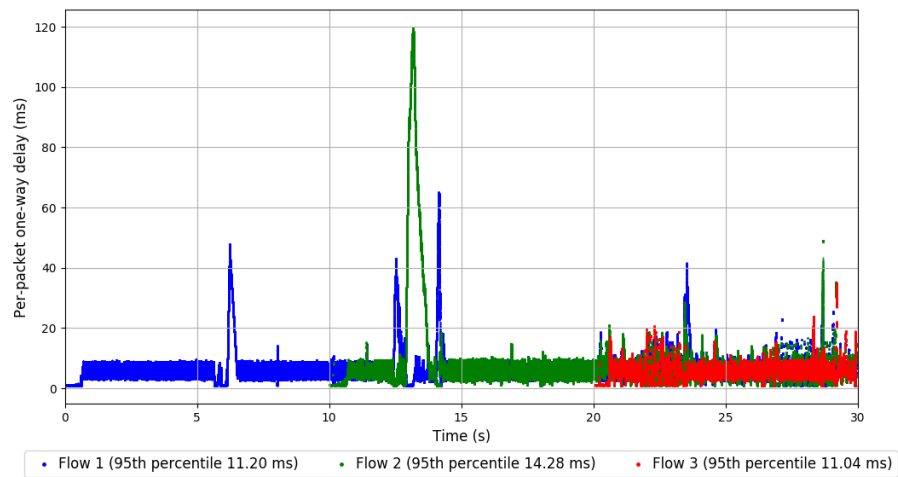
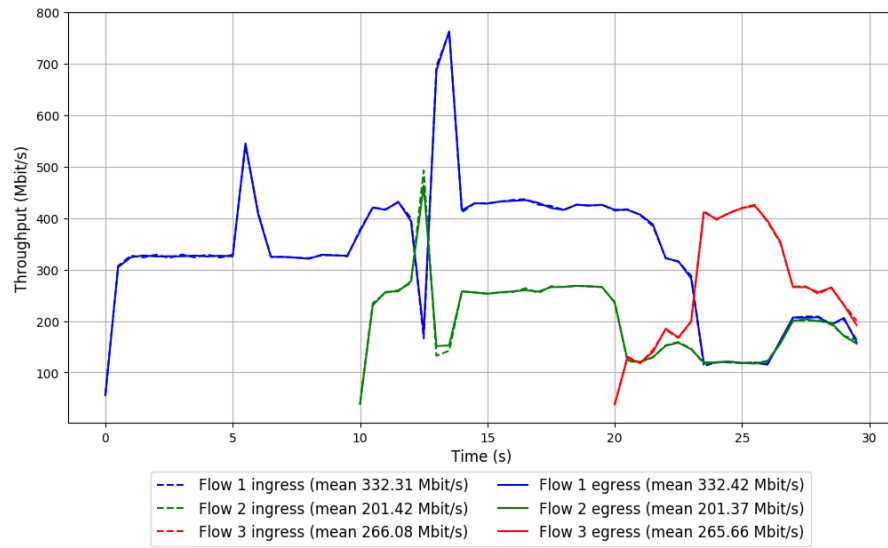
-- Flow 3:

Average throughput: 265.66 Mbit/s

95th percentile per-packet one-way delay: 11.042 ms

Loss rate: 0.21%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: Tue, 01 Aug 2017 06:29:57 +0000

End at: Tue, 01 Aug 2017 06:30:27 +0000

Local clock offset: 0.468 ms

Remote clock offset: -0.187 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:45:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.41 Mbit/s

95th percentile per-packet one-way delay: 11.902 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 414.94 Mbit/s

95th percentile per-packet one-way delay: 10.698 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 196.48 Mbit/s

95th percentile per-packet one-way delay: 14.553 ms

Loss rate: 0.11%

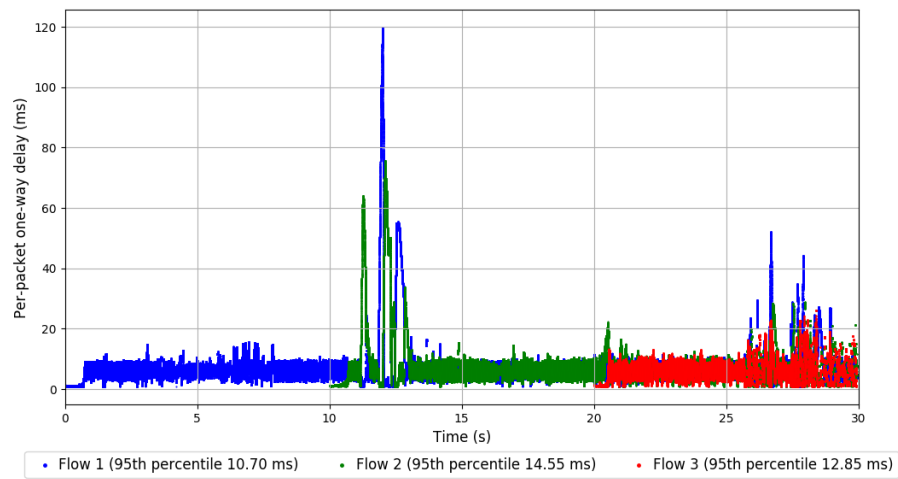
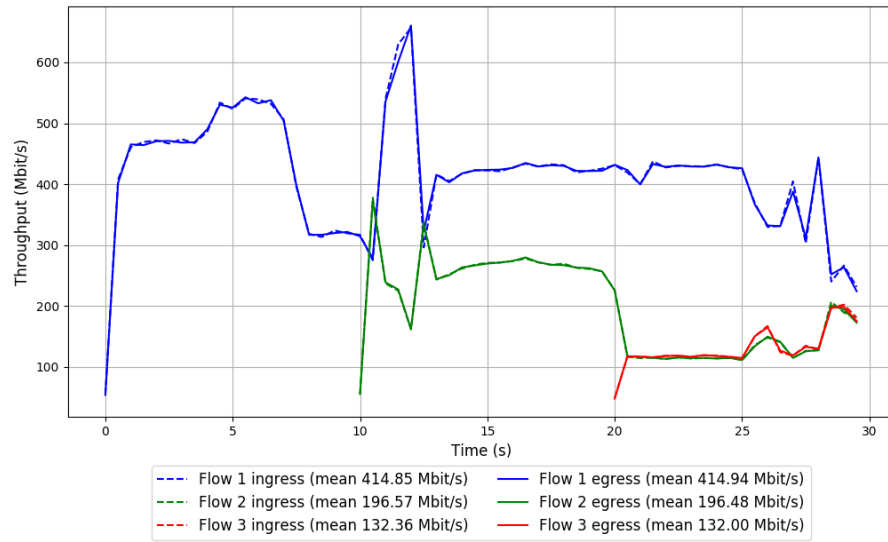
-- Flow 3:

Average throughput: 132.00 Mbit/s

95th percentile per-packet one-way delay: 12.853 ms

Loss rate: 0.39%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: Tue, 01 Aug 2017 03:26:57 +0000

End at: Tue, 01 Aug 2017 03:27:27 +0000

Local clock offset: 0.02 ms

Remote clock offset: -0.852 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.24 Mbit/s

95th percentile per-packet one-way delay: 1.241 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 76.43 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 67.55 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.09%

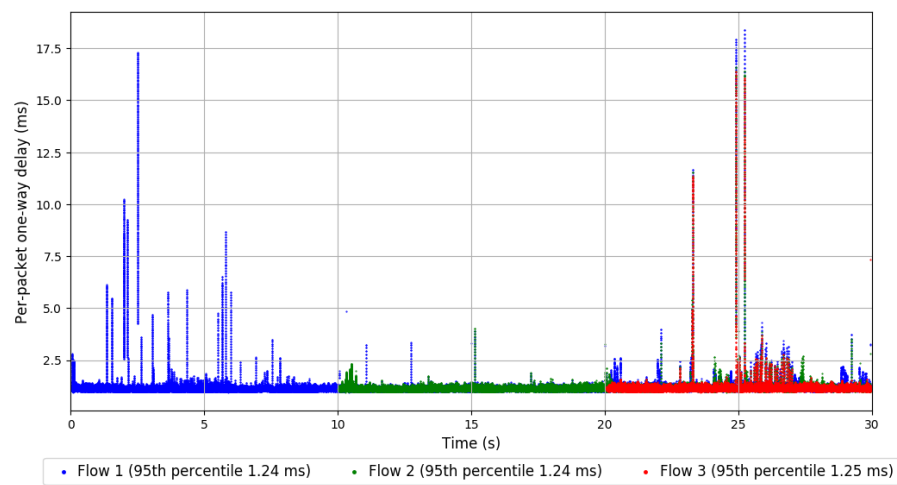
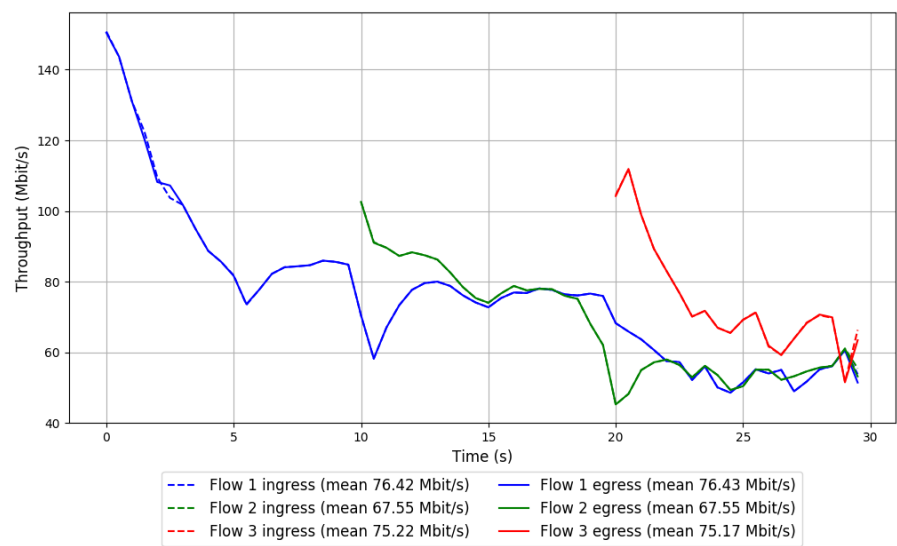
-- Flow 3:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 0.21%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: Tue, 01 Aug 2017 03:49:24 +0000

End at: Tue, 01 Aug 2017 03:49:54 +0000

Local clock offset: -0.07 ms

Remote clock offset: -0.921 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:46:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.89 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 81.49 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 70.42 Mbit/s

95th percentile per-packet one-way delay: 1.262 ms

Loss rate: 0.09%

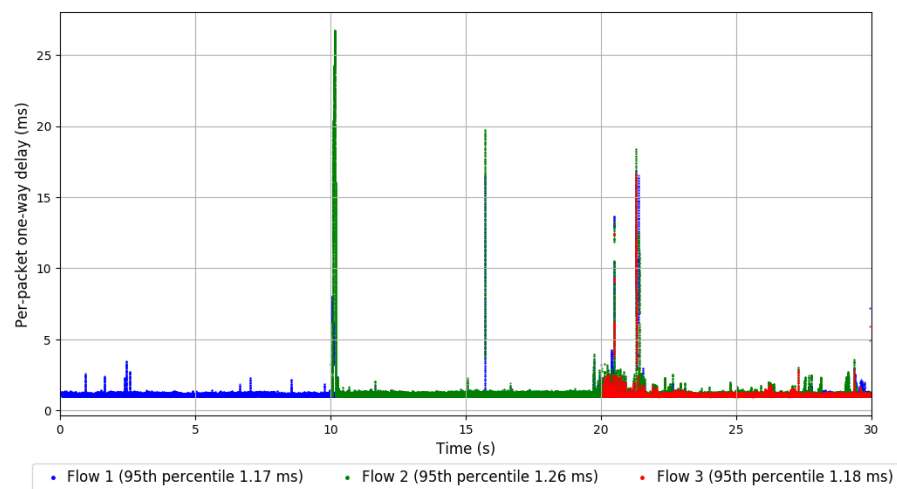
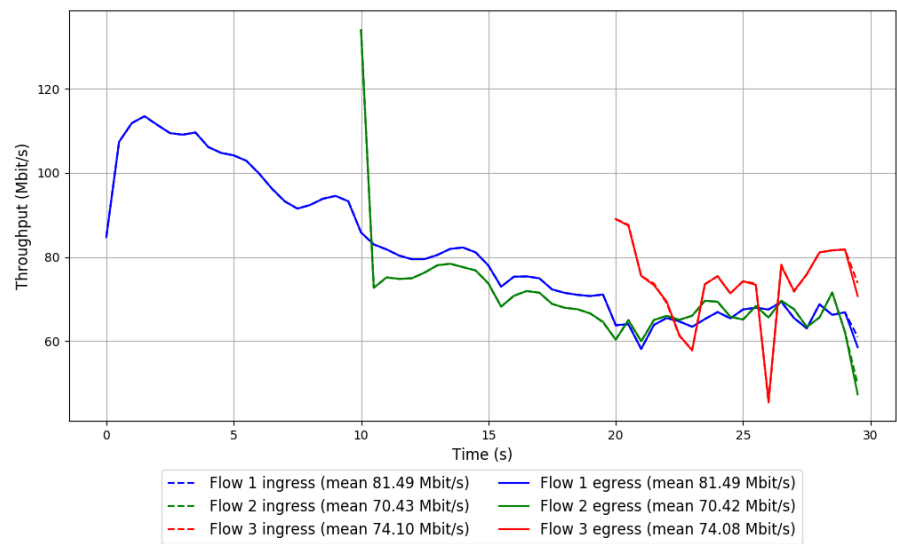
-- Flow 3:

Average throughput: 74.08 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.22%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: Tue, 01 Aug 2017 04:12:14 +0000

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

Local clock offset: -0.066 ms

Remote clock offset: -1.181 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:46:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.78 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 79.61 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 1.249 ms

Loss rate: 0.08%

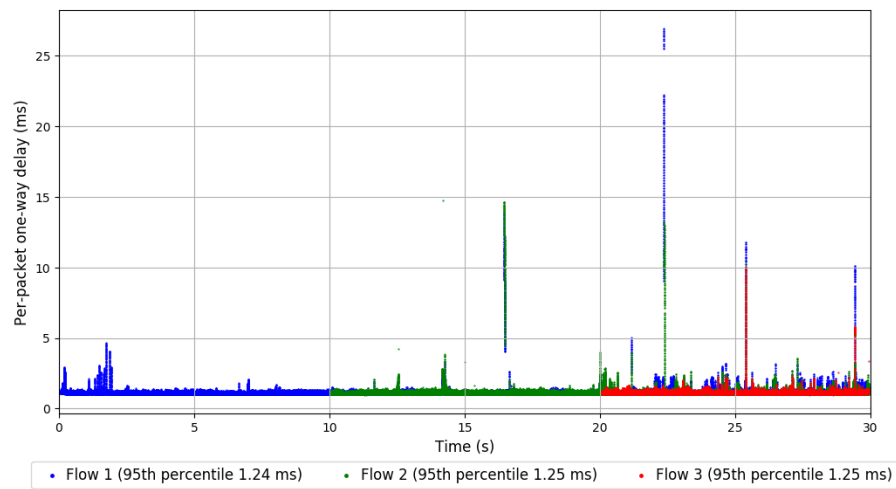
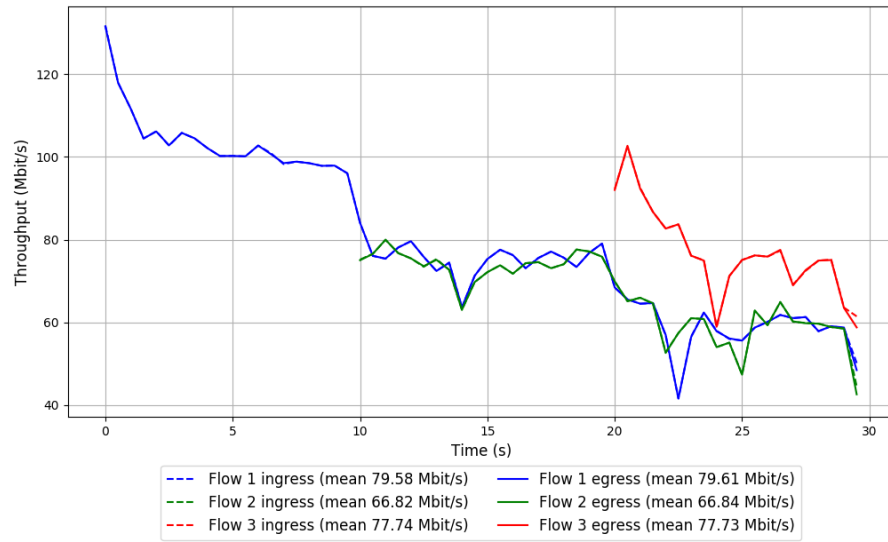
-- Flow 3:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.18%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Tue, 01 Aug 2017 04:34:53 +0000

End at: Tue, 01 Aug 2017 04:35:23 +0000

Local clock offset: -0.182 ms

Remote clock offset: -0.954 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:46:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.55 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 69.97 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 79.35 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.09%

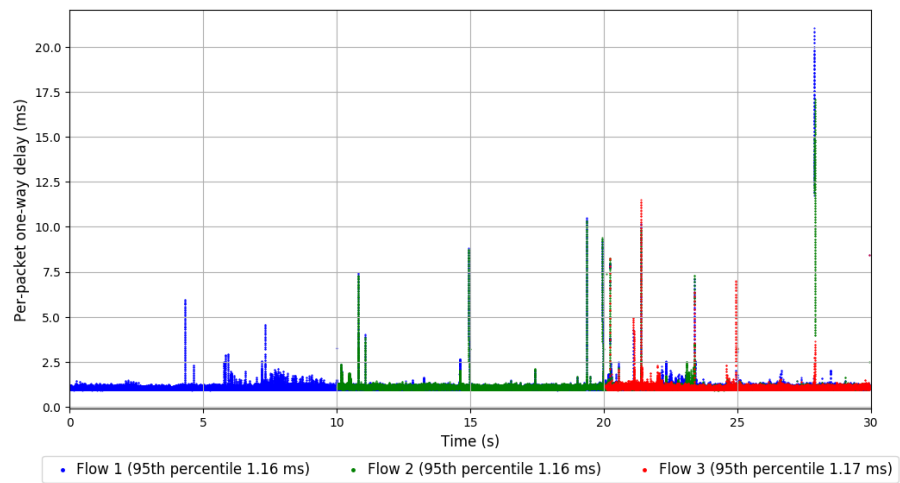
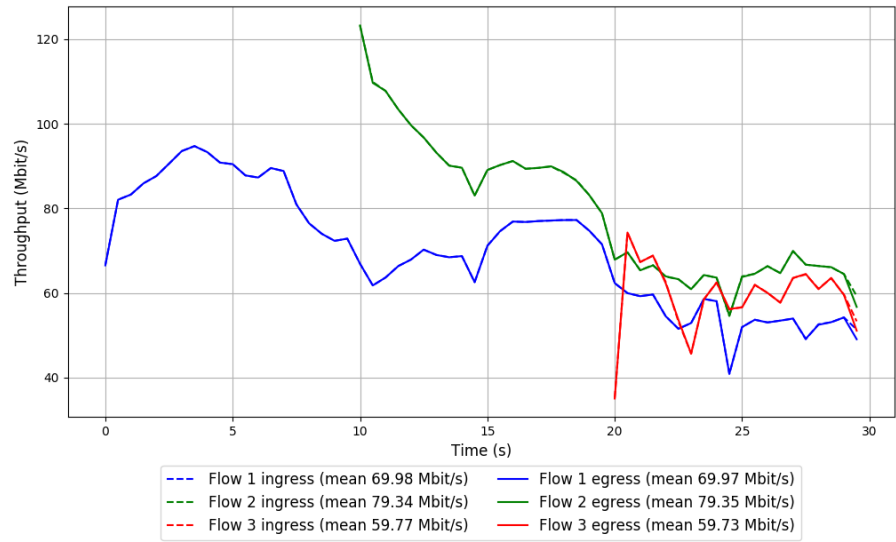
-- Flow 3:

Average throughput: 59.73 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.20%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: Tue, 01 Aug 2017 04:57:12 +0000

End at: Tue, 01 Aug 2017 04:57:42 +0000

Local clock offset: -0.218 ms

Remote clock offset: -1.099 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:46:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.37 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 73.27 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.09%

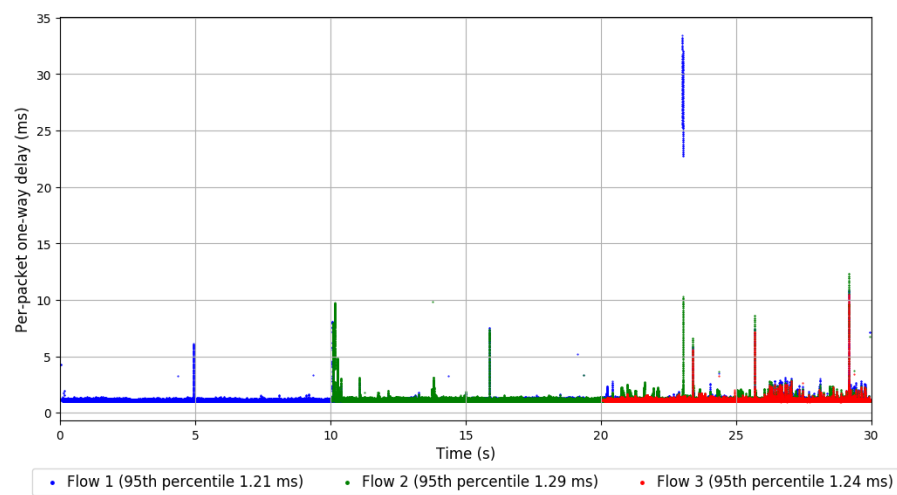
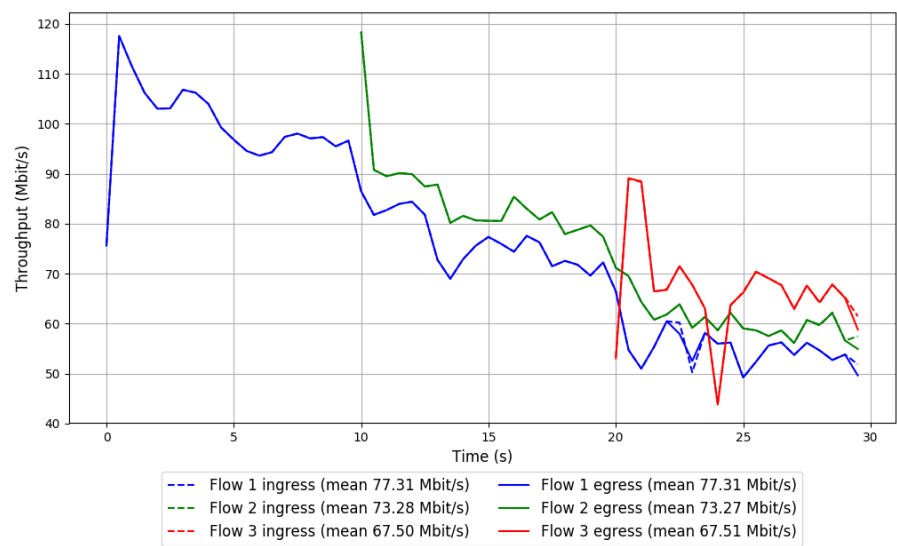
-- Flow 3:

Average throughput: 67.51 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.21%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: Tue, 01 Aug 2017 05:19:50 +0000

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

Local clock offset: -0.27 ms

Remote clock offset: -1.023 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:47:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.98 Mbit/s

95th percentile per-packet one-way delay: 1.258 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 72.92 Mbit/s

95th percentile per-packet one-way delay: 1.251 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 0.10%

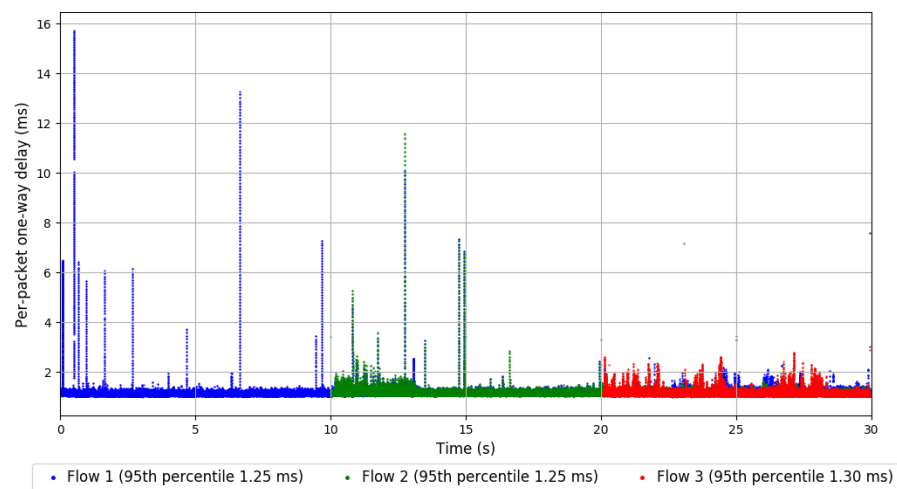
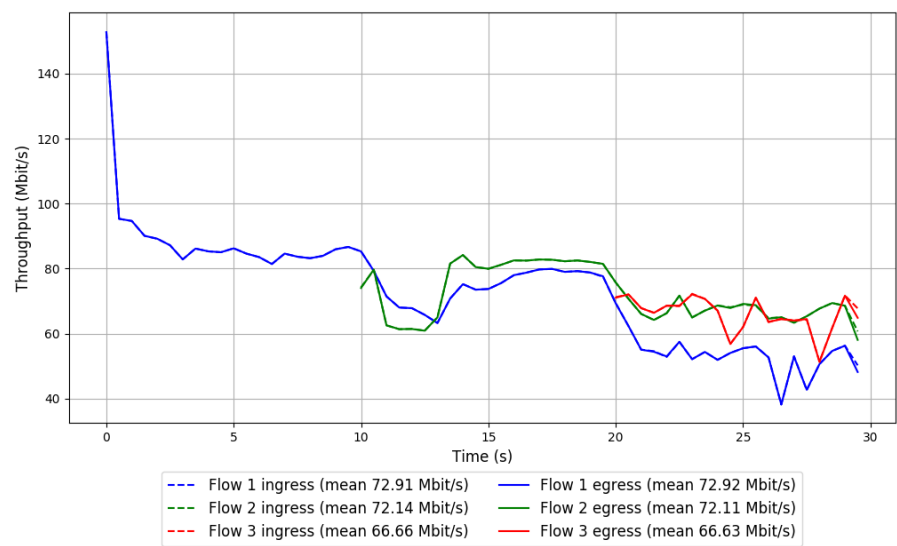
-- Flow 3:

Average throughput: 66.63 Mbit/s

95th percentile per-packet one-way delay: 1.301 ms

Loss rate: 0.23%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: Tue, 01 Aug 2017 05:42:18 +0000

End at: Tue, 01 Aug 2017 05:42:48 +0000

Local clock offset: -0.092 ms

Remote clock offset: -0.701 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:47:33 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.79 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 80.73 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 1.230 ms

Loss rate: 0.09%

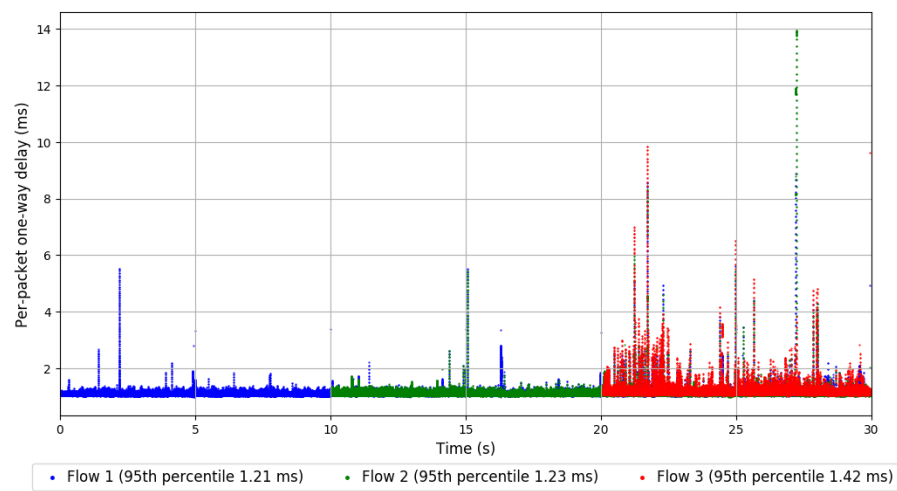
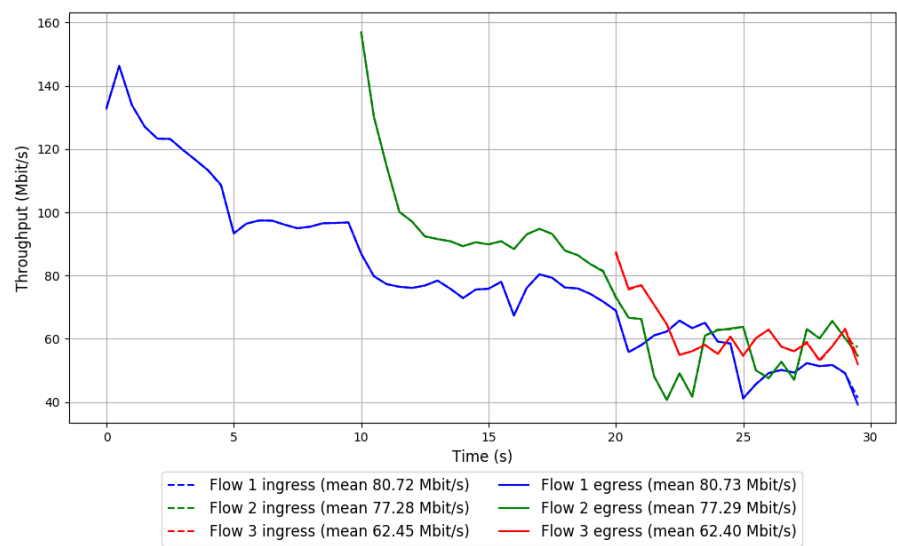
-- Flow 3:

Average throughput: 62.40 Mbit/s

95th percentile per-packet one-way delay: 1.419 ms

Loss rate: 0.21%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

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

End at: Tue, 01 Aug 2017 06:05:15 +0000

Local clock offset: 0.298 ms

Remote clock offset: -0.31 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:48:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.21 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 75.93 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 67.70 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.10%

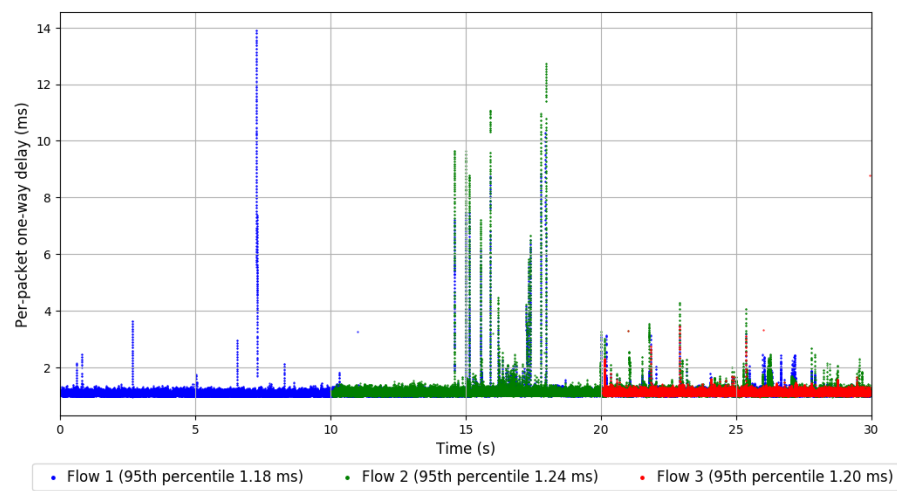
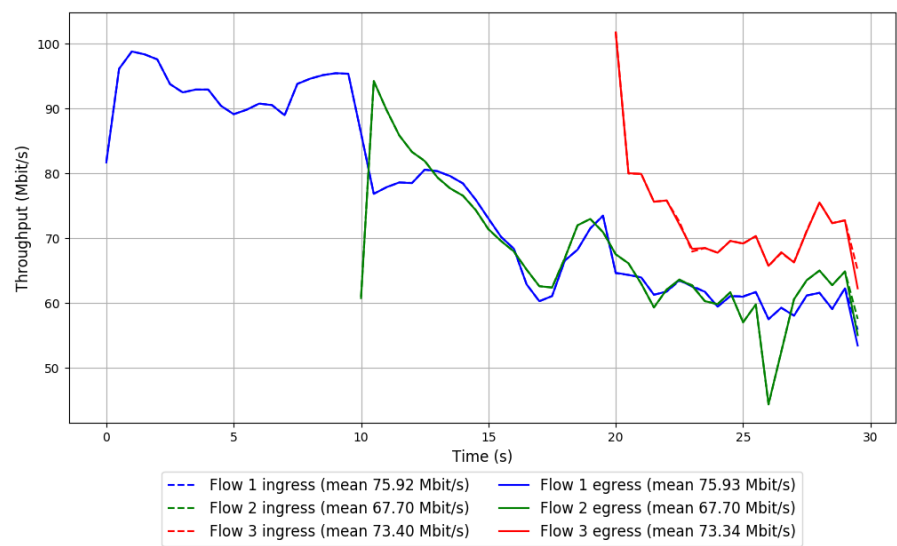
-- Flow 3:

Average throughput: 73.34 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.20%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: Tue, 01 Aug 2017 06:27:23 +0000

End at: Tue, 01 Aug 2017 06:27:53 +0000

Local clock offset: 0.549 ms

Remote clock offset: -0.326 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:48:06 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.15 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 69.55 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.10%

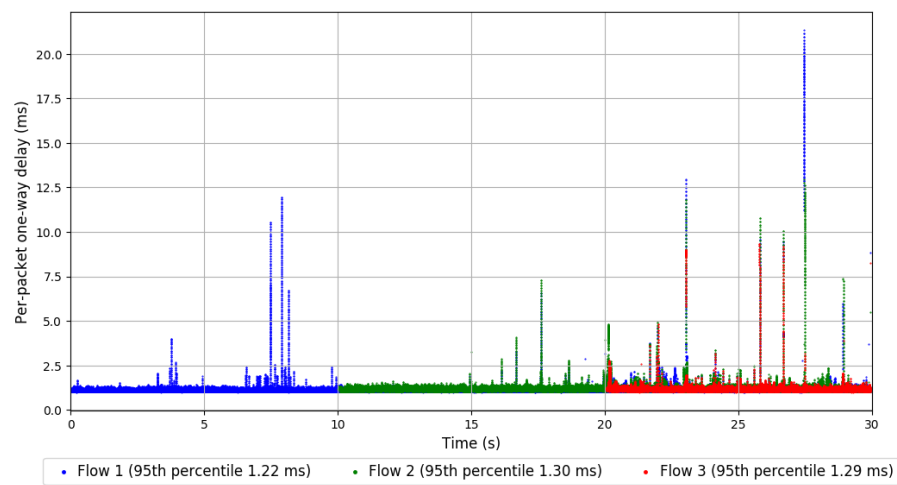
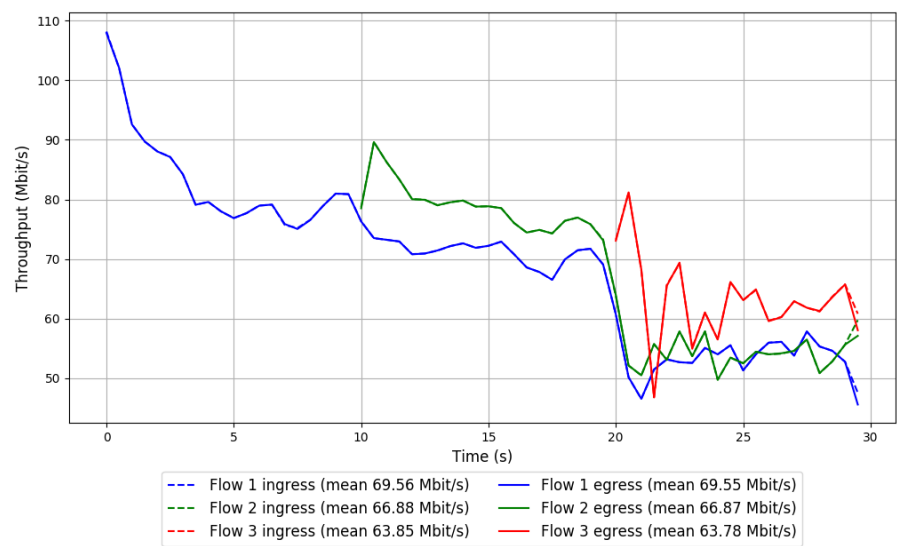
-- Flow 3:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 1.291 ms

Loss rate: 0.23%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: Tue, 01 Aug 2017 06:49:53 +0000

End at: Tue, 01 Aug 2017 06:50:23 +0000

Local clock offset: 0.633 ms

Remote clock offset: -0.052 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:48:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.74 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 69.57 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.09%

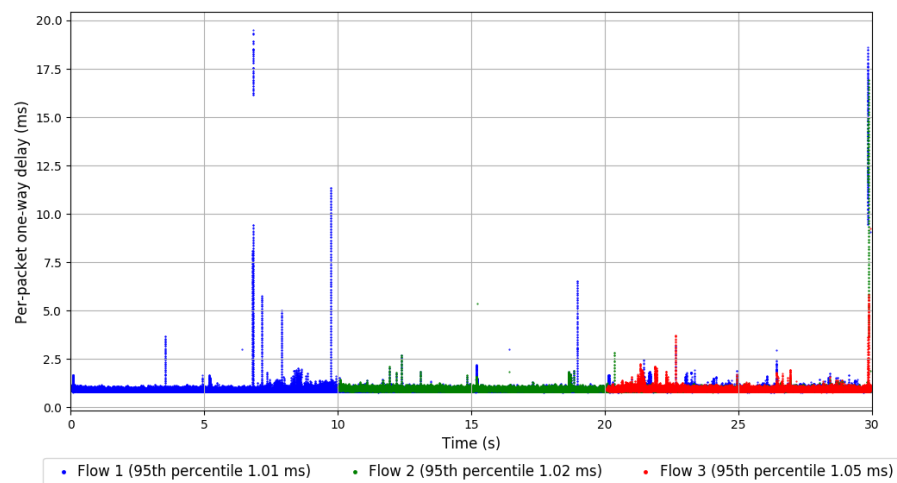
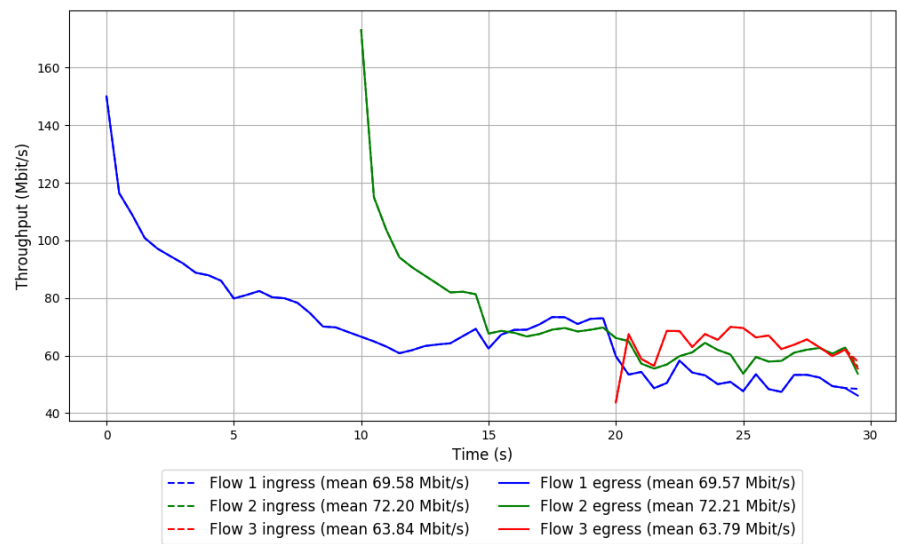
-- Flow 3:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.20%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

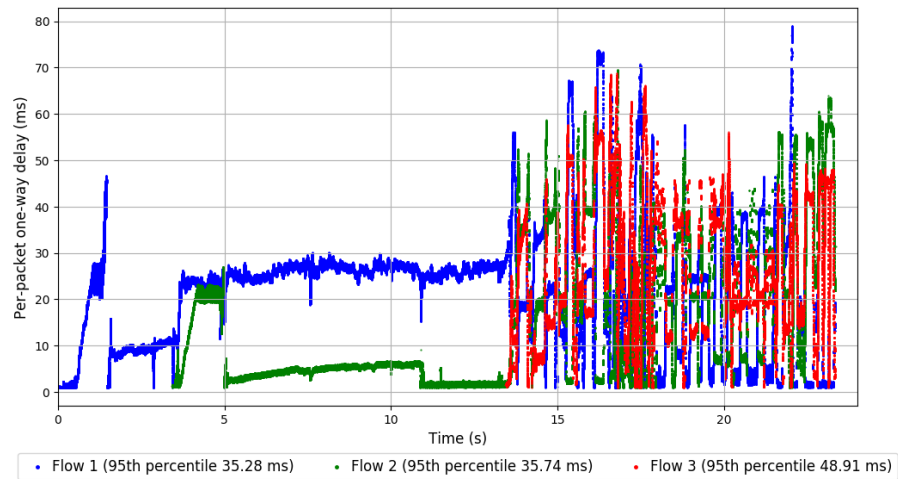
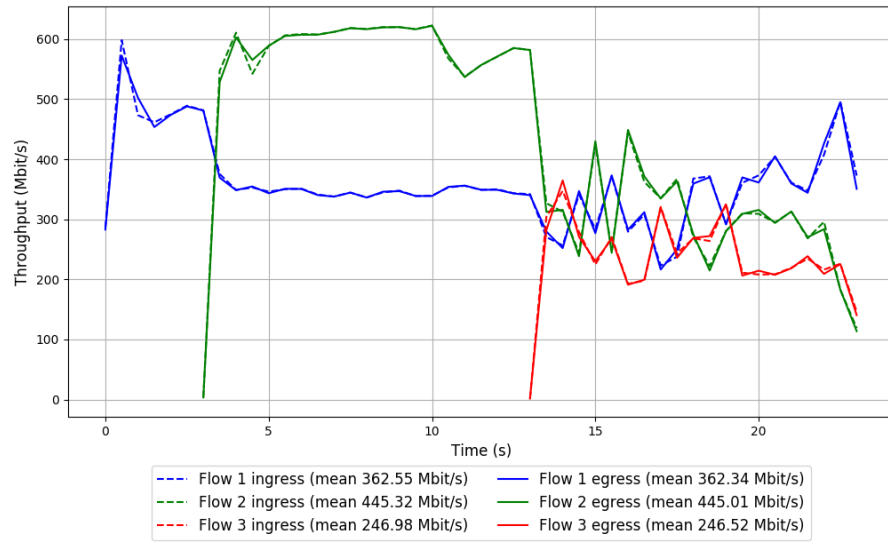
Start at: Tue, 01 Aug 2017 03:08:56 +0000

End at: Tue, 01 Aug 2017 03:09:26 +0000

Local clock offset: 0.042 ms

Remote clock offset: -1.237 ms

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 03:31:17 +0000

End at: Tue, 01 Aug 2017 03:31:47 +0000

Local clock offset: -0.023 ms

Remote clock offset: -0.77 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:50:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 764.58 Mbit/s

95th percentile per-packet one-way delay: 49.961 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 393.49 Mbit/s

95th percentile per-packet one-way delay: 52.444 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 415.48 Mbit/s

95th percentile per-packet one-way delay: 44.409 ms

Loss rate: 0.16%

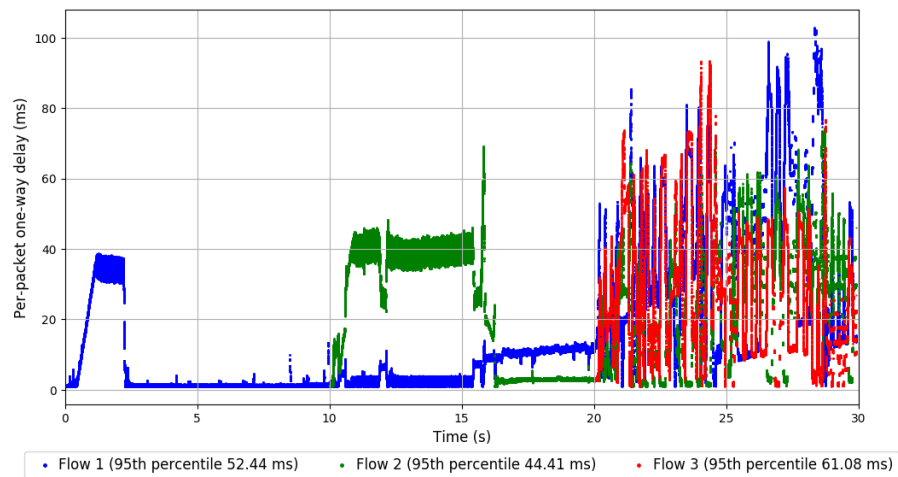
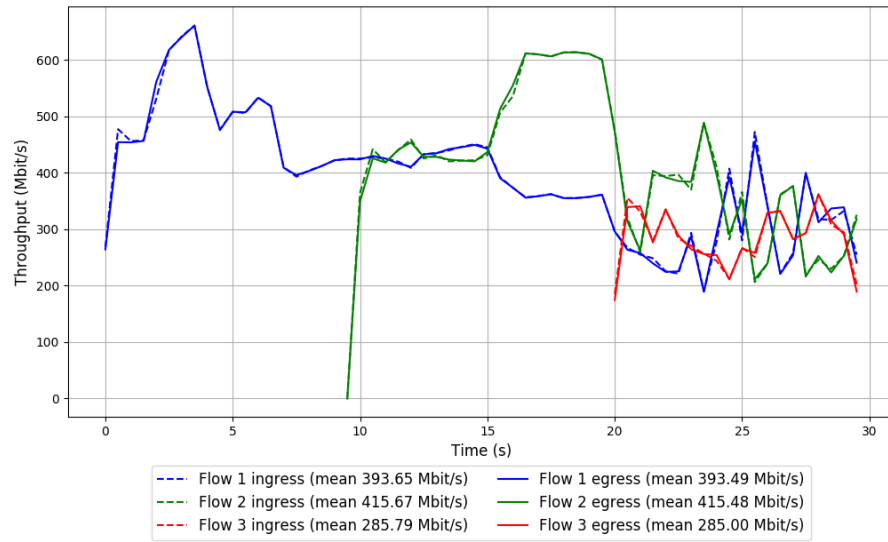
-- Flow 3:

Average throughput: 285.00 Mbit/s

95th percentile per-packet one-way delay: 61.082 ms

Loss rate: 0.33%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 03:53:50 +0000

End at: Tue, 01 Aug 2017 03:54:20 +0000

Local clock offset: -0.14 ms

Remote clock offset: -0.939 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:50:52 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 750.66 Mbit/s

95th percentile per-packet one-way delay: 37.001 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 388.39 Mbit/s

95th percentile per-packet one-way delay: 25.510 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 379.76 Mbit/s

95th percentile per-packet one-way delay: 41.037 ms

Loss rate: 0.22%

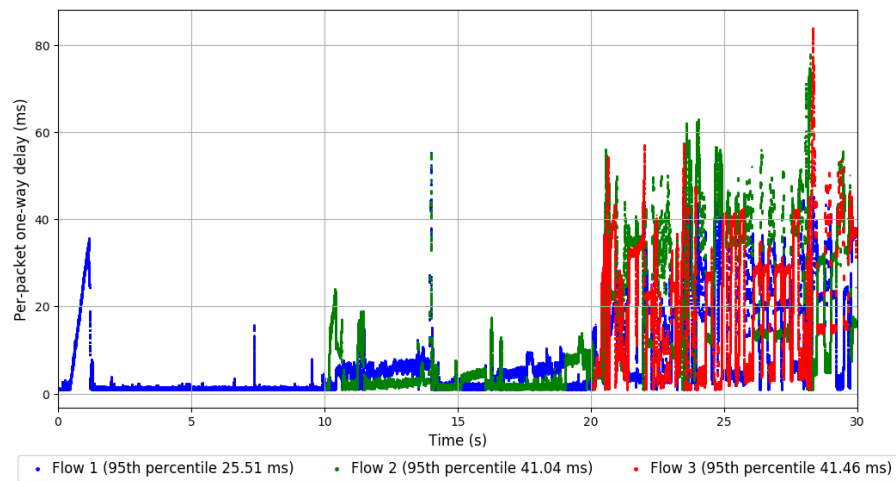
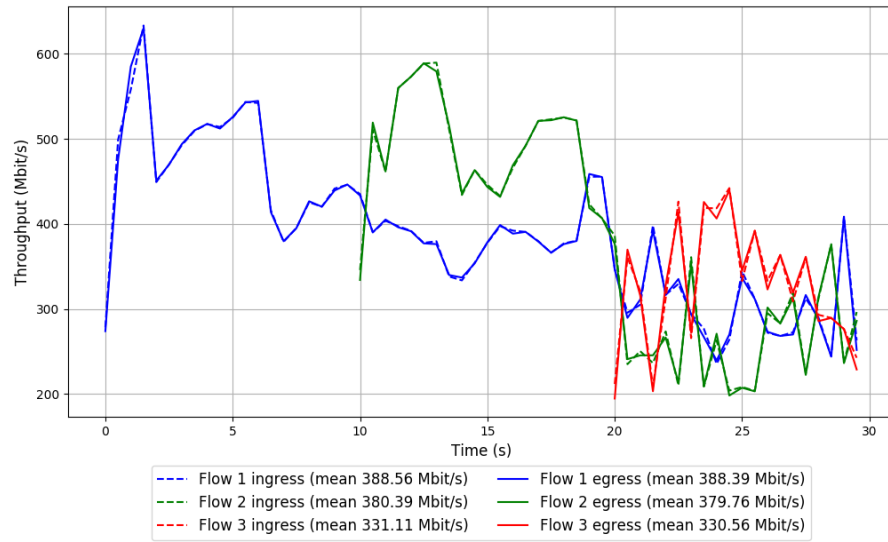
-- Flow 3:

Average throughput: 330.56 Mbit/s

95th percentile per-packet one-way delay: 41.460 ms

Loss rate: 0.38%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 04:16:38 +0000

End at: Tue, 01 Aug 2017 04:17:08 +0000

Local clock offset: -0.093 ms

Remote clock offset: -1.162 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:51:38 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 782.60 Mbit/s

95th percentile per-packet one-way delay: 50.784 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 373.14 Mbit/s

95th percentile per-packet one-way delay: 36.637 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 498.36 Mbit/s

95th percentile per-packet one-way delay: 36.658 ms

Loss rate: 0.19%

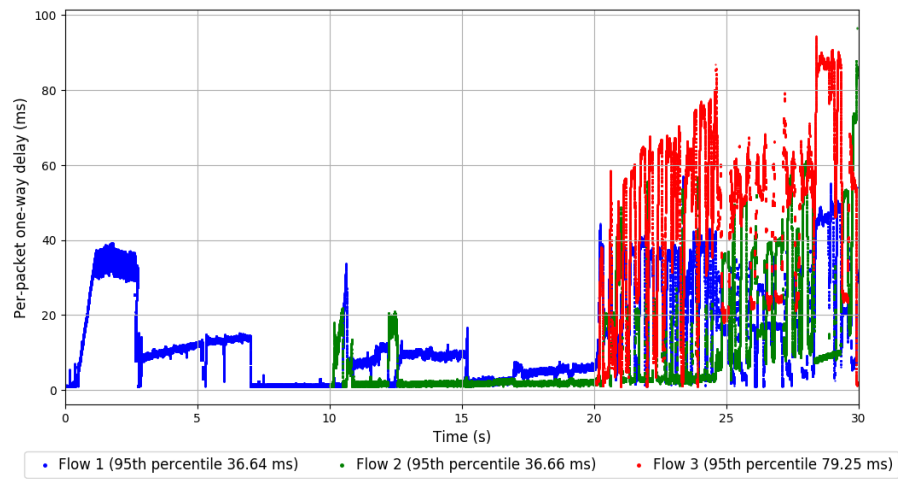
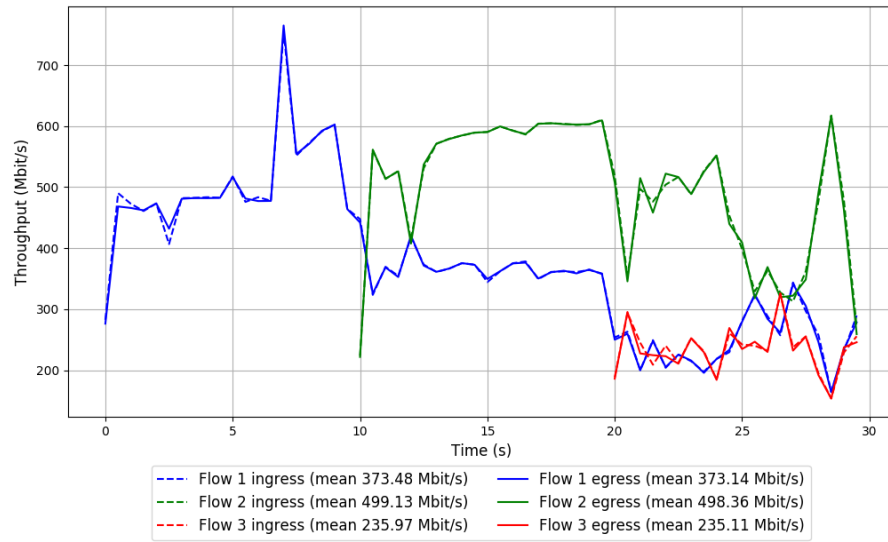
-- Flow 3:

Average throughput: 235.11 Mbit/s

95th percentile per-packet one-way delay: 79.249 ms

Loss rate: 0.60%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 04:39:13 +0000

End at: Tue, 01 Aug 2017 04:39:43 +0000

Local clock offset: -0.176 ms

Remote clock offset: -0.866 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:52:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 812.60 Mbit/s

95th percentile per-packet one-way delay: 54.081 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 398.22 Mbit/s

95th percentile per-packet one-way delay: 34.679 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 370.14 Mbit/s

95th percentile per-packet one-way delay: 53.059 ms

Loss rate: 0.18%

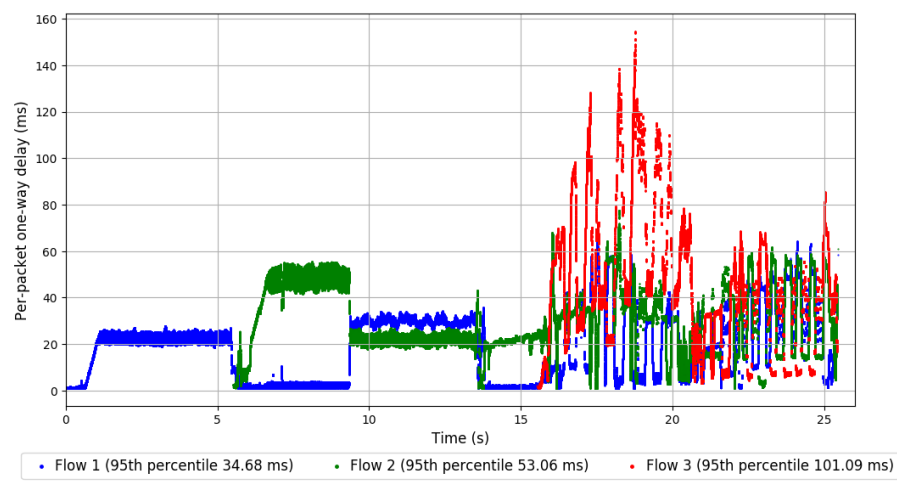
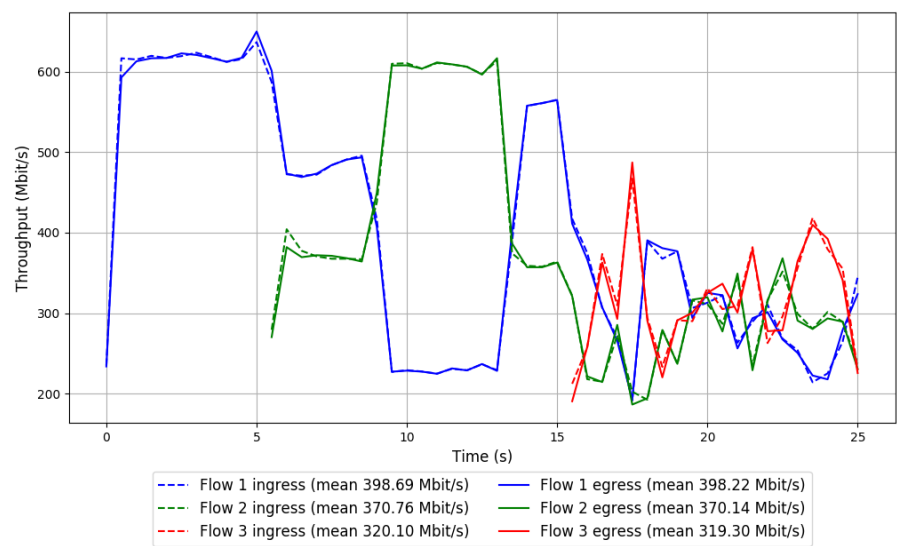
-- Flow 3:

Average throughput: 319.30 Mbit/s

95th percentile per-packet one-way delay: 101.088 ms

Loss rate: 0.44%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

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

End at: Tue, 01 Aug 2017 05:02:06 +0000

Local clock offset: -0.305 ms

Remote clock offset: -1.104 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:53:18 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 846.74 Mbit/s

95th percentile per-packet one-way delay: 47.193 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 456.96 Mbit/s

95th percentile per-packet one-way delay: 42.527 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 441.64 Mbit/s

95th percentile per-packet one-way delay: 40.014 ms

Loss rate: 0.14%

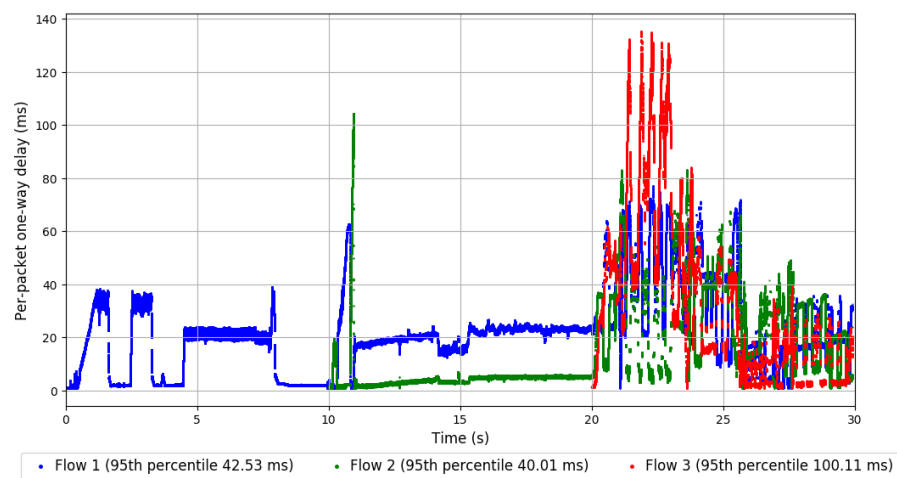
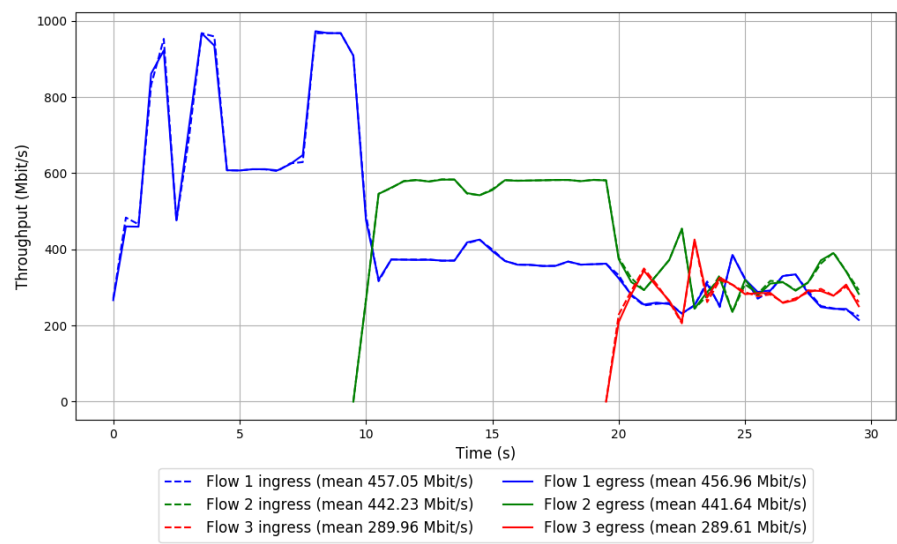
-- Flow 3:

Average throughput: 289.61 Mbit/s

95th percentile per-packet one-way delay: 100.110 ms

Loss rate: 0.30%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 05:24:11 +0000

End at: Tue, 01 Aug 2017 05:24:41 +0000

Local clock offset: -0.387 ms

Remote clock offset: -1.0 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:54:00 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 785.92 Mbit/s

95th percentile per-packet one-way delay: 54.999 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 406.86 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 422.53 Mbit/s

95th percentile per-packet one-way delay: 58.694 ms

Loss rate: 0.17%

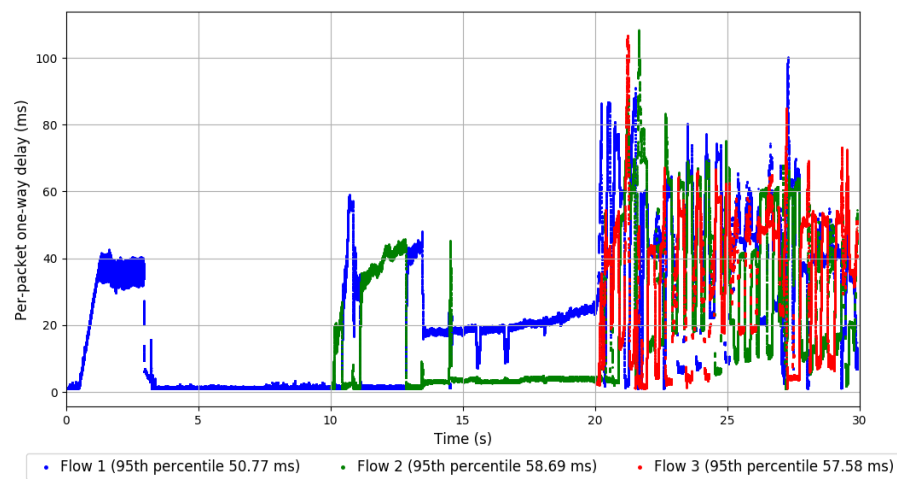
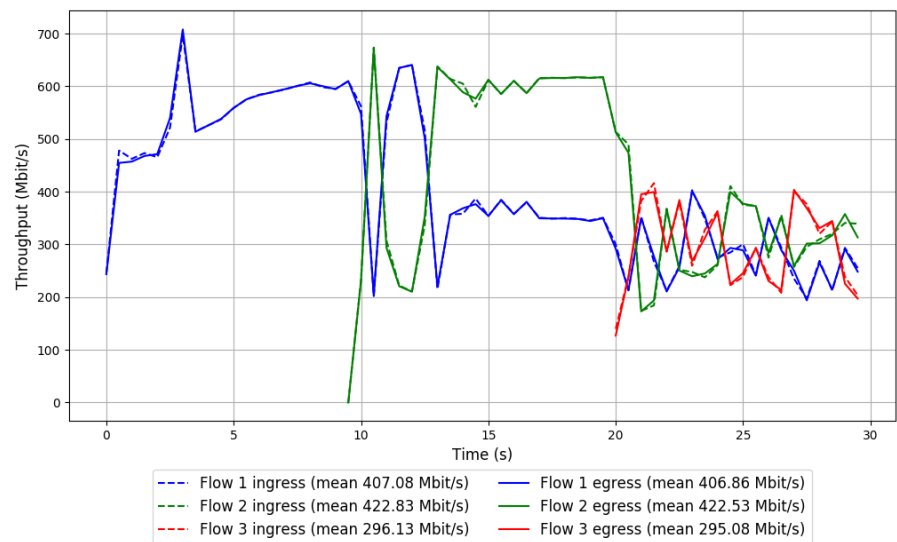
-- Flow 3:

Average throughput: 295.08 Mbit/s

95th percentile per-packet one-way delay: 57.579 ms

Loss rate: 0.48%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 05:46:38 +0000

End at: Tue, 01 Aug 2017 05:47:08 +0000

Local clock offset: -0.097 ms

Remote clock offset: -0.597 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:54:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 750.31 Mbit/s

95th percentile per-packet one-way delay: 52.349 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 456.00 Mbit/s

95th percentile per-packet one-way delay: 54.947 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 325.60 Mbit/s

95th percentile per-packet one-way delay: 43.845 ms

Loss rate: 0.12%

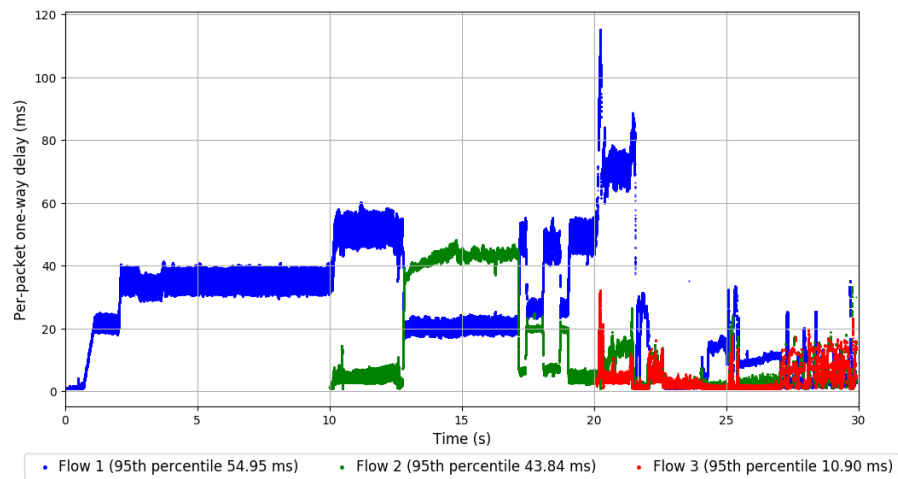
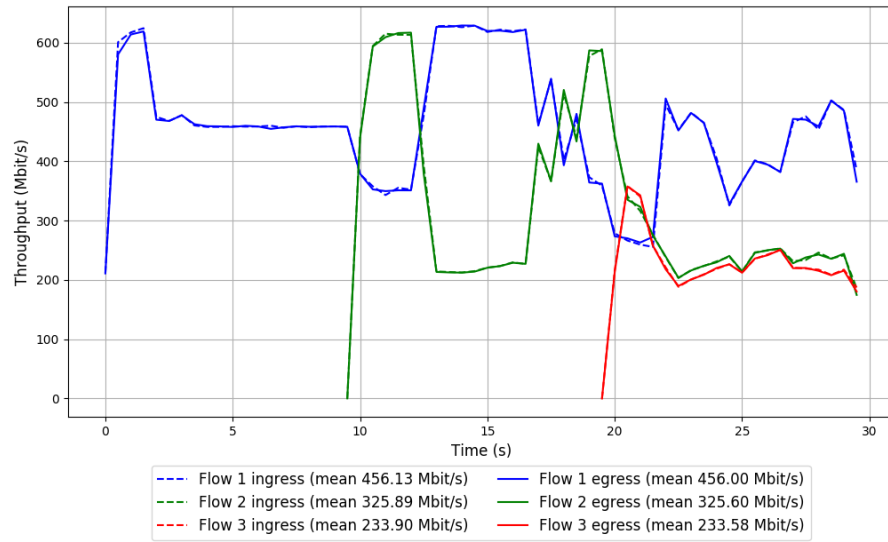
-- Flow 3:

Average throughput: 233.58 Mbit/s

95th percentile per-packet one-way delay: 10.903 ms

Loss rate: 0.32%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 06:09:07 +0000

End at: Tue, 01 Aug 2017 06:09:37 +0000

Local clock offset: 0.344 ms

Remote clock offset: -0.248 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:55:32 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 751.46 Mbit/s

95th percentile per-packet one-way delay: 44.042 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 433.64 Mbit/s

95th percentile per-packet one-way delay: 40.327 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 320.38 Mbit/s

95th percentile per-packet one-way delay: 46.445 ms

Loss rate: 0.27%

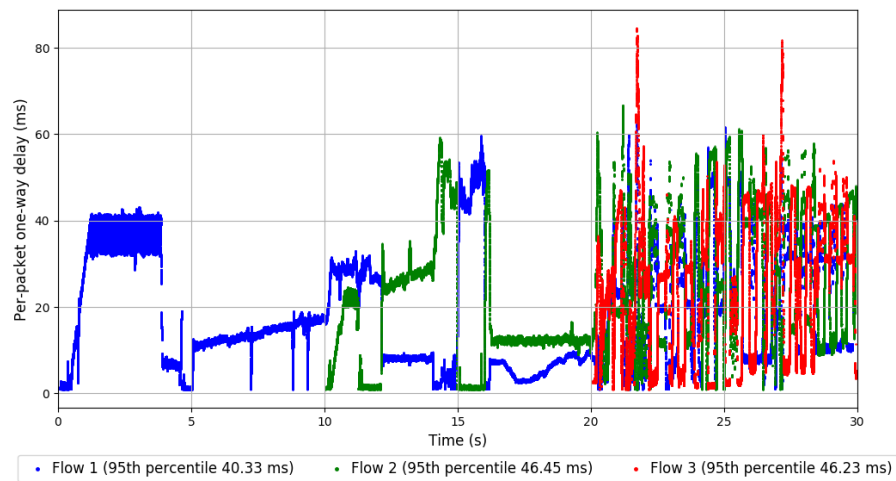
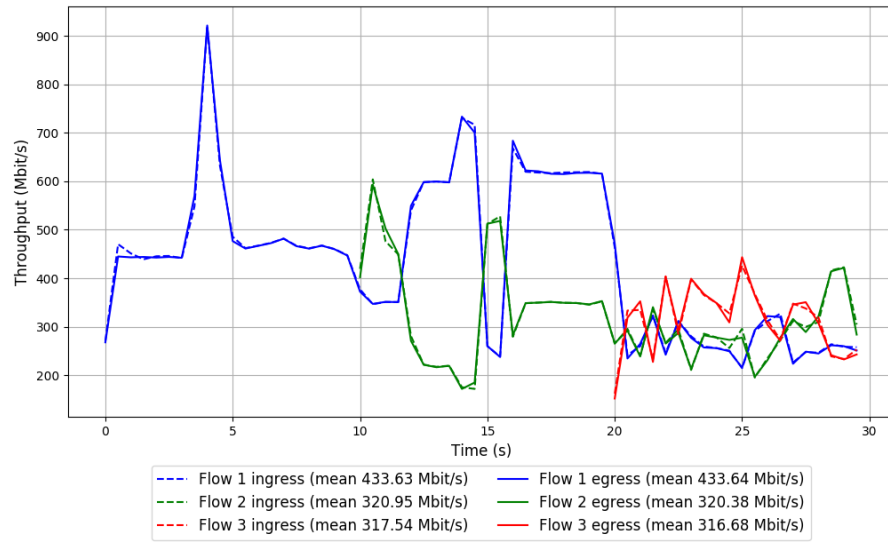
-- Flow 3:

Average throughput: 316.68 Mbit/s

95th percentile per-packet one-way delay: 46.229 ms

Loss rate: 0.41%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: Tue, 01 Aug 2017 06:31:46 +0000

End at: Tue, 01 Aug 2017 06:32:16 +0000

Local clock offset: 0.525 ms

Remote clock offset: -0.229 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:56:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 726.09 Mbit/s

95th percentile per-packet one-way delay: 32.224 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 361.78 Mbit/s

95th percentile per-packet one-way delay: 23.084 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 387.50 Mbit/s

95th percentile per-packet one-way delay: 34.130 ms

Loss rate: 0.11%

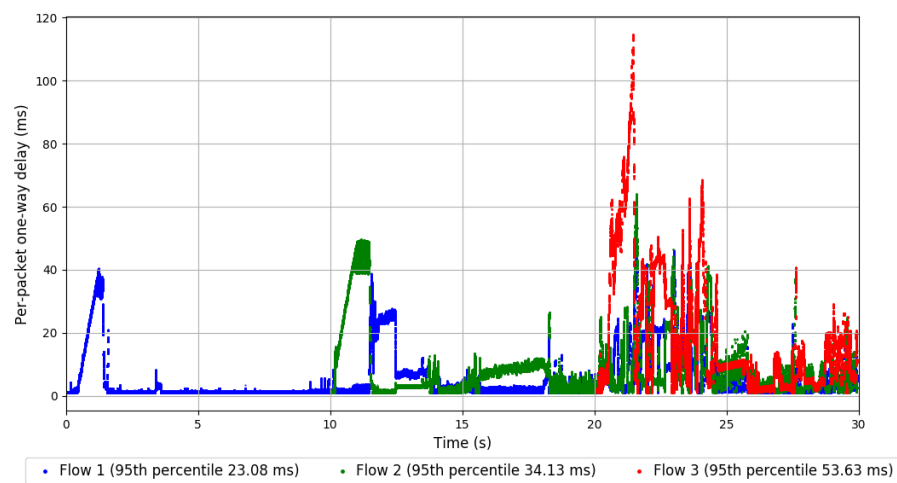
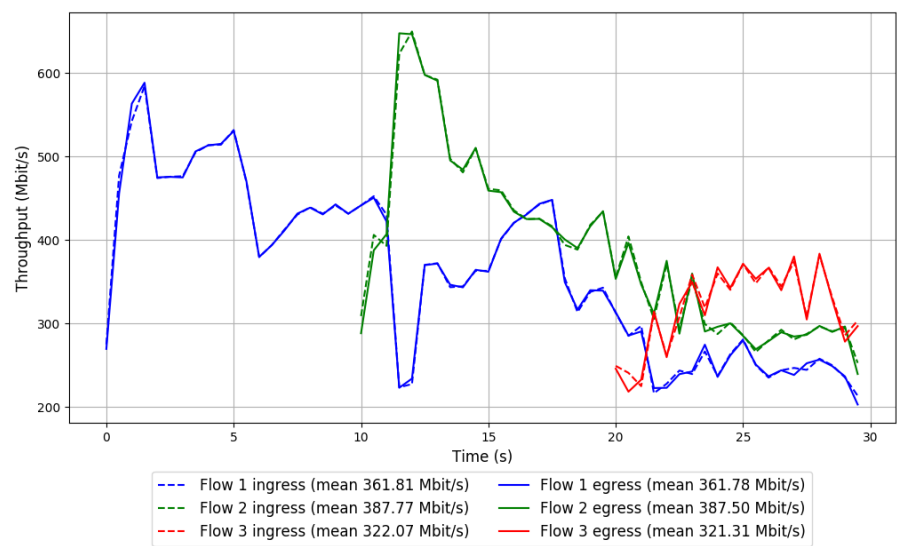
-- Flow 3:

Average throughput: 321.31 Mbit/s

95th percentile per-packet one-way delay: 53.628 ms

Loss rate: 0.36%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 03:14:50 +0000

End at: Tue, 01 Aug 2017 03:15:20 +0000

Local clock offset: -0.022 ms

Remote clock offset: -1.12 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:56:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.90 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.95 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 59.42 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.10%

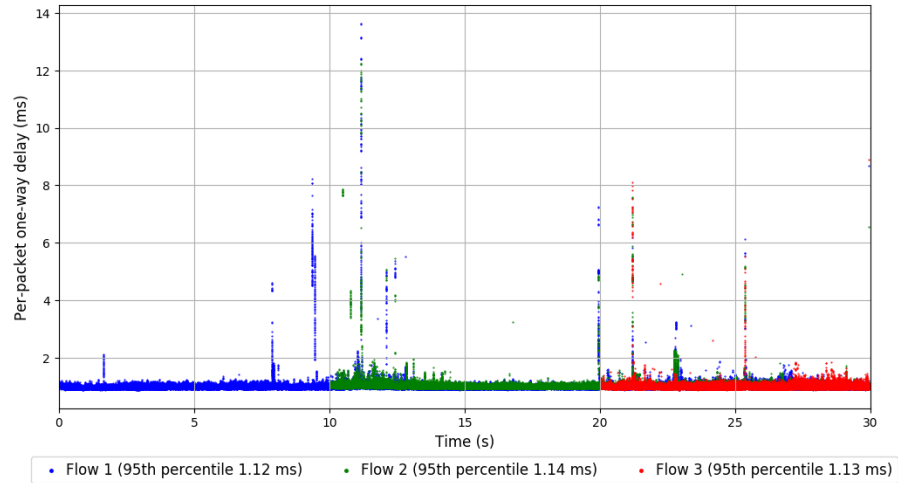
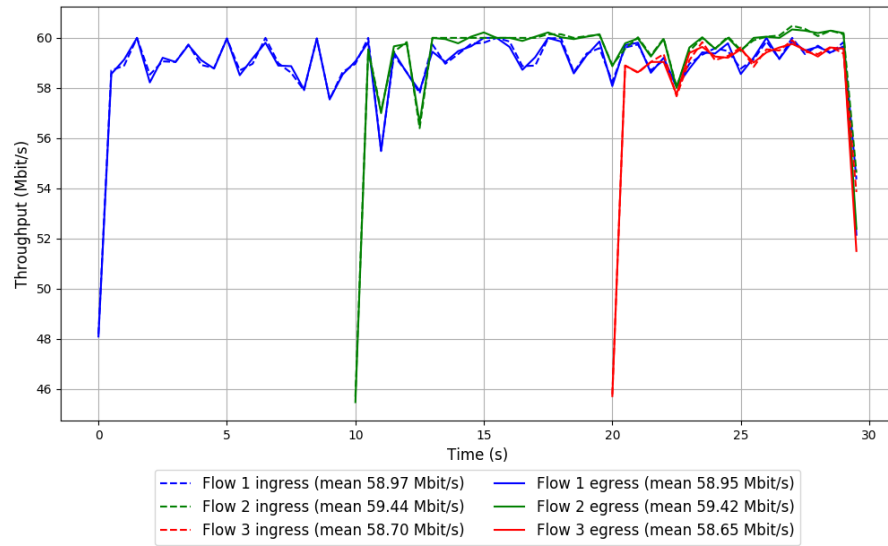
-- Flow 3:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.20%

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 03:37:18 +0000

End at: Tue, 01 Aug 2017 03:37:48 +0000

Local clock offset: -0.152 ms

Remote clock offset: -0.88 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:56:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.95 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 63.97 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.09%

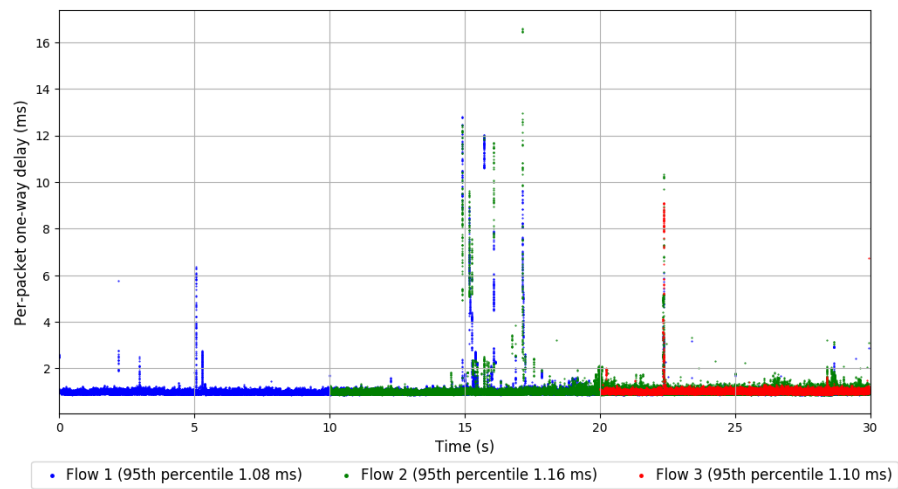
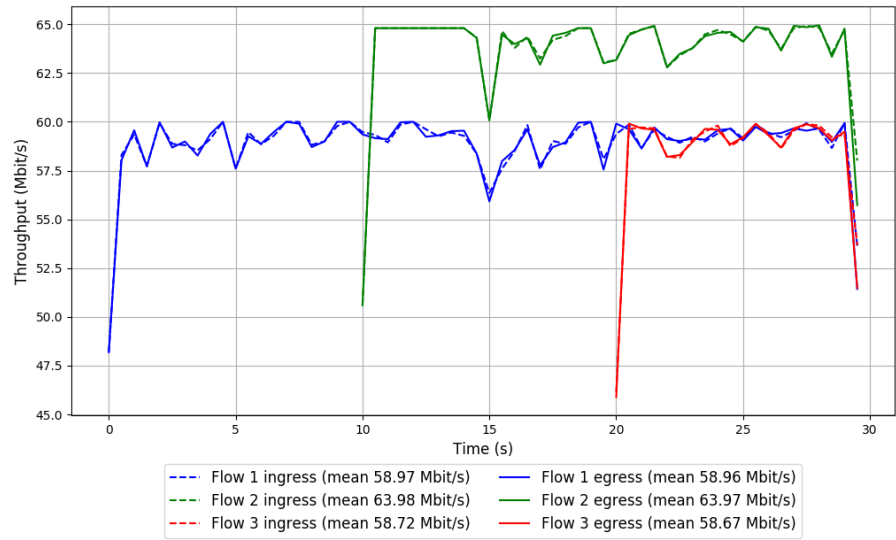
-- Flow 3:

Average throughput: 58.67 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.20%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 03:59:52 +0000

End at: Tue, 01 Aug 2017 04:00:22 +0000

Local clock offset: -0.037 ms

Remote clock offset: -1.051 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:56:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.14 Mbit/s

95th percentile per-packet one-way delay: 1.303 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 1.284 ms

Loss rate: 0.05%

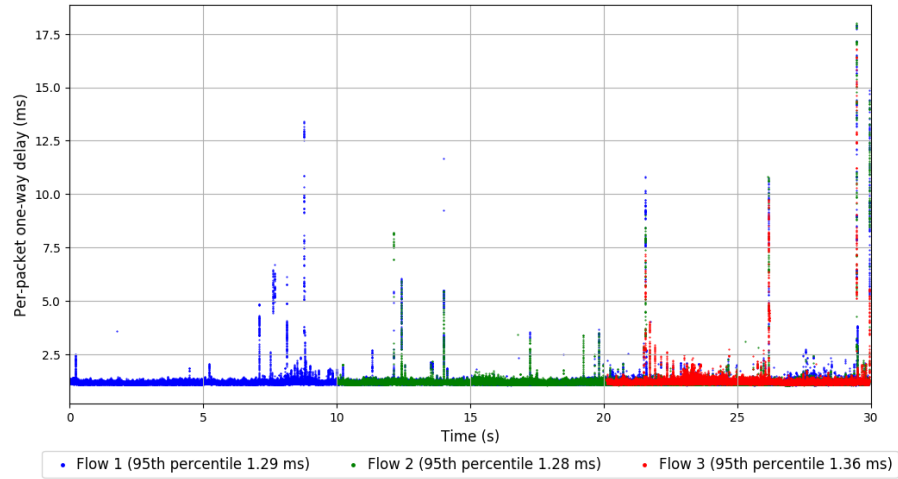
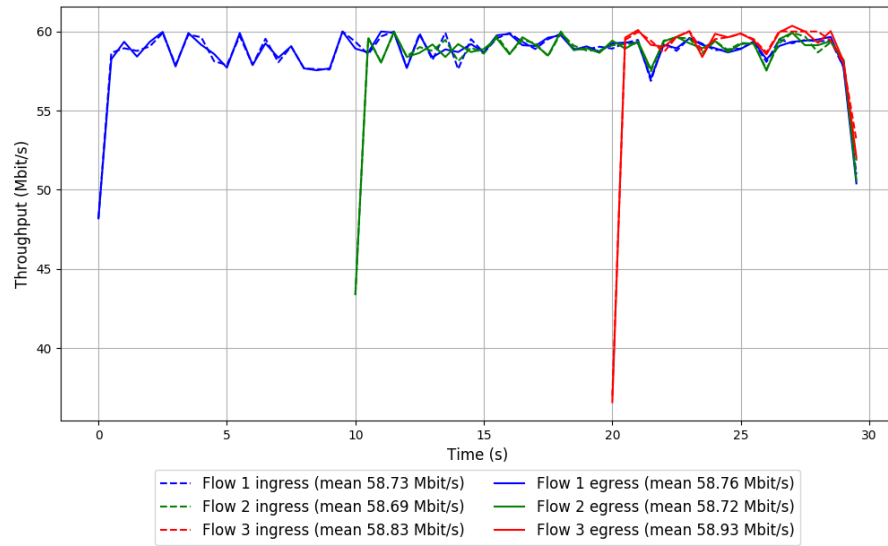
-- Flow 3:

Average throughput: 58.93 Mbit/s

95th percentile per-packet one-way delay: 1.365 ms

Loss rate: 0.10%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 04:22:42 +0000

End at: Tue, 01 Aug 2017 04:23:12 +0000

Local clock offset: -0.113 ms

Remote clock offset: -1.142 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:56:41 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.00 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 1.377 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 1.380 ms

Loss rate: 0.10%

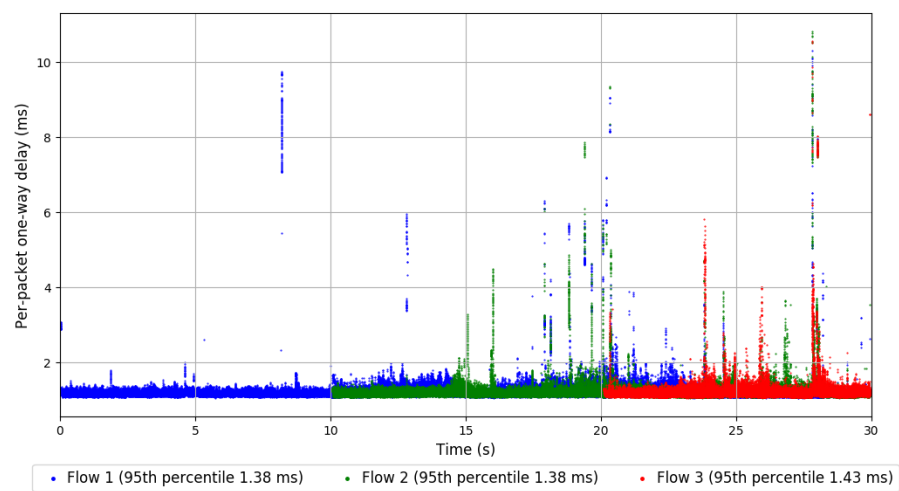
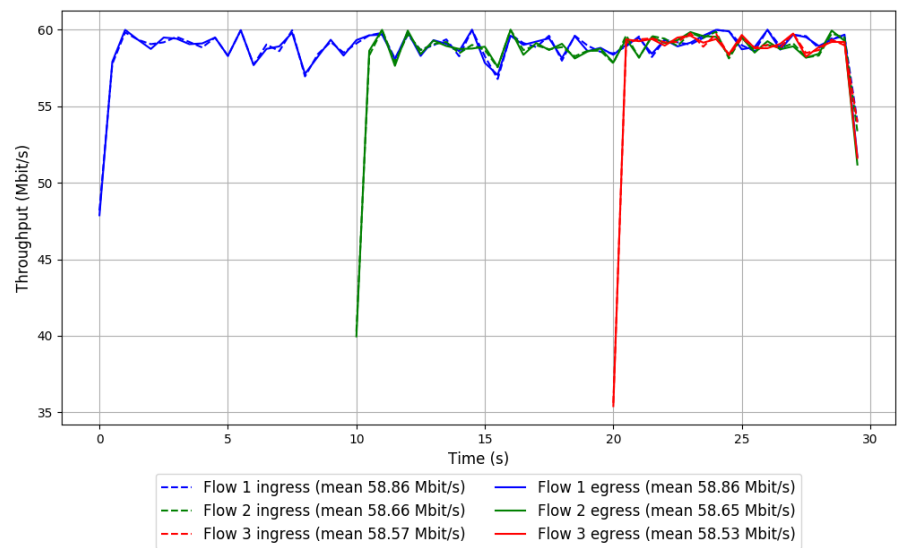
-- Flow 3:

Average throughput: 58.53 Mbit/s

95th percentile per-packet one-way delay: 1.428 ms

Loss rate: 0.20%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 04:45:12 +0000

End at: Tue, 01 Aug 2017 04:45:42 +0000

Local clock offset: -0.307 ms

Remote clock offset: -0.893 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:56:53 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.01 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 59.53 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.10%

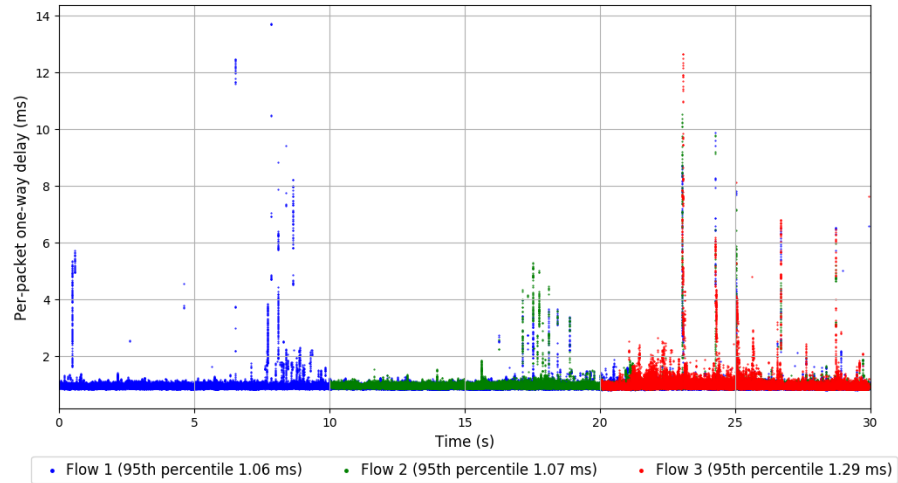
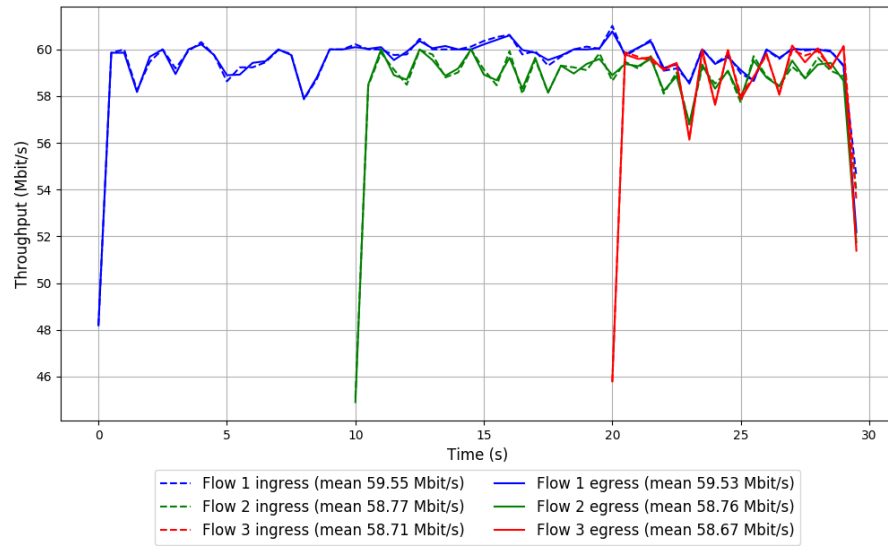
-- Flow 3:

Average throughput: 58.67 Mbit/s

95th percentile per-packet one-way delay: 1.292 ms

Loss rate: 0.20%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 05:07:41 +0000

End at: Tue, 01 Aug 2017 05:08:11 +0000

Local clock offset: -0.301 ms

Remote clock offset: -1.205 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:56:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.31 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.10%

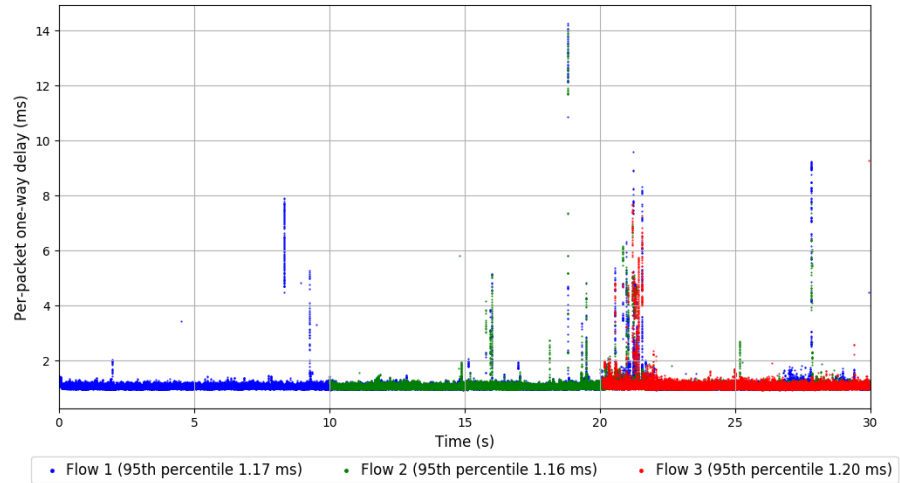
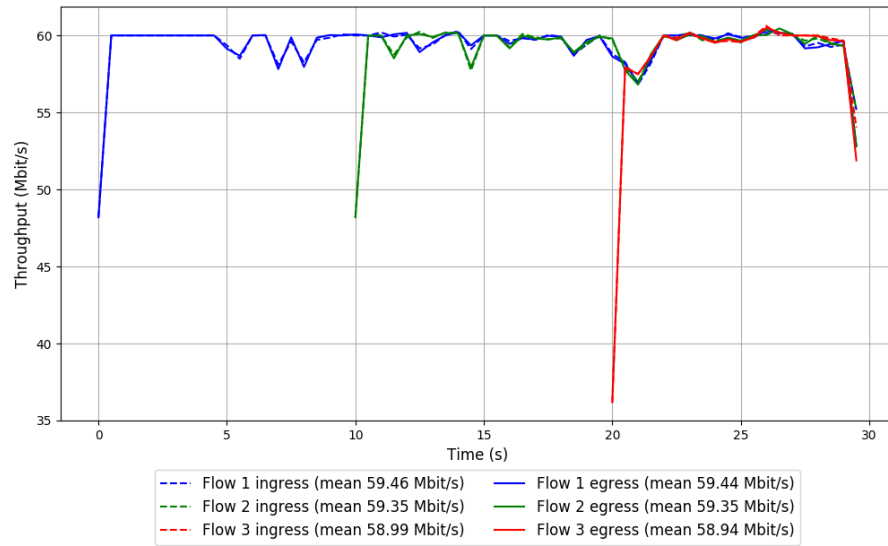
-- Flow 3:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.20%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 05:30:10 +0000

End at: Tue, 01 Aug 2017 05:30:40 +0000

Local clock offset: -0.286 ms

Remote clock offset: -0.865 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:57:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.06 Mbit/s

95th percentile per-packet one-way delay: 1.222 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 58.66 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.10%

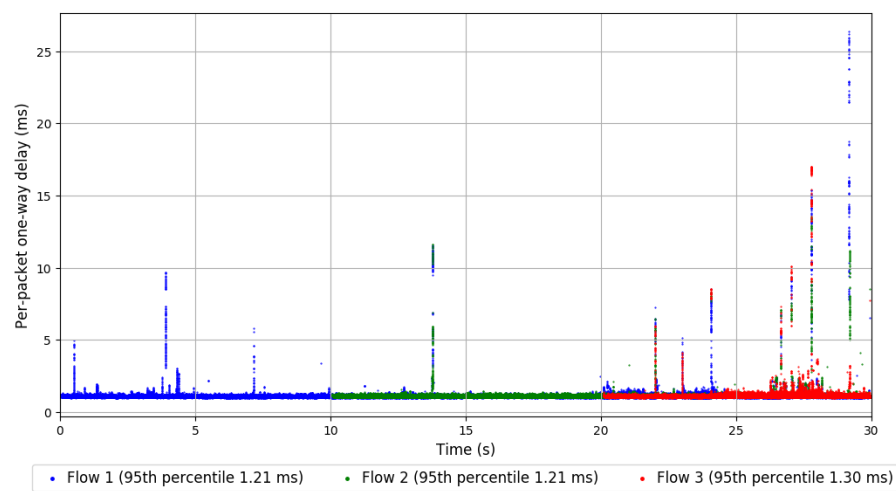
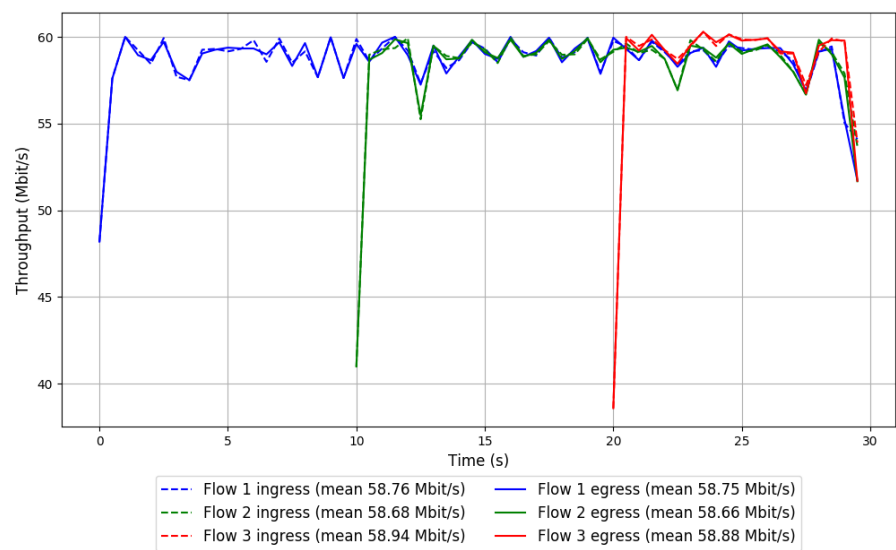
-- Flow 3:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 1.300 ms

Loss rate: 0.20%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 05:52:39 +0000

End at: Tue, 01 Aug 2017 05:53:09 +0000

Local clock offset: 0.094 ms

Remote clock offset: -0.454 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:57:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.46 Mbit/s

95th percentile per-packet one-way delay: 1.323 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 1.292 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 59.09 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.10%

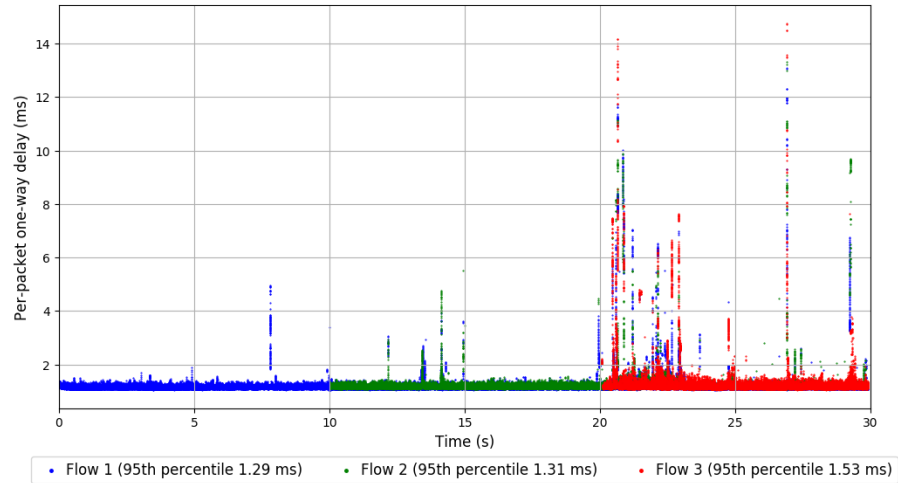
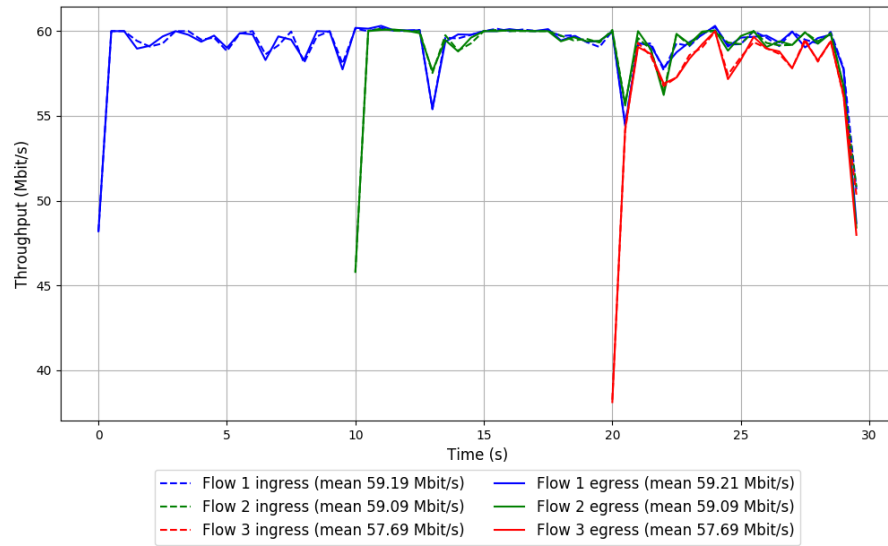
-- Flow 3:

Average throughput: 57.69 Mbit/s

95th percentile per-packet one-way delay: 1.530 ms

Loss rate: 0.21%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 06:15:11 +0000

End at: Tue, 01 Aug 2017 06:15:41 +0000

Local clock offset: 0.322 ms

Remote clock offset: -0.353 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:57:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.70 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.83 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 59.36 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.10%

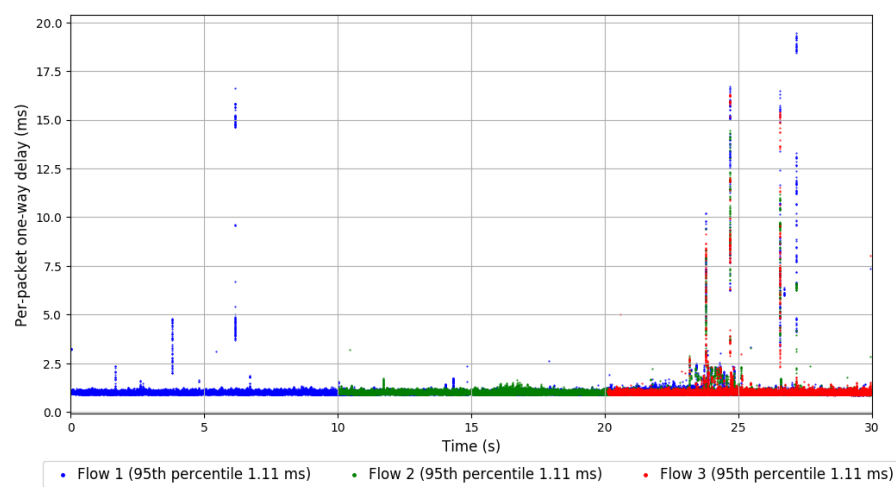
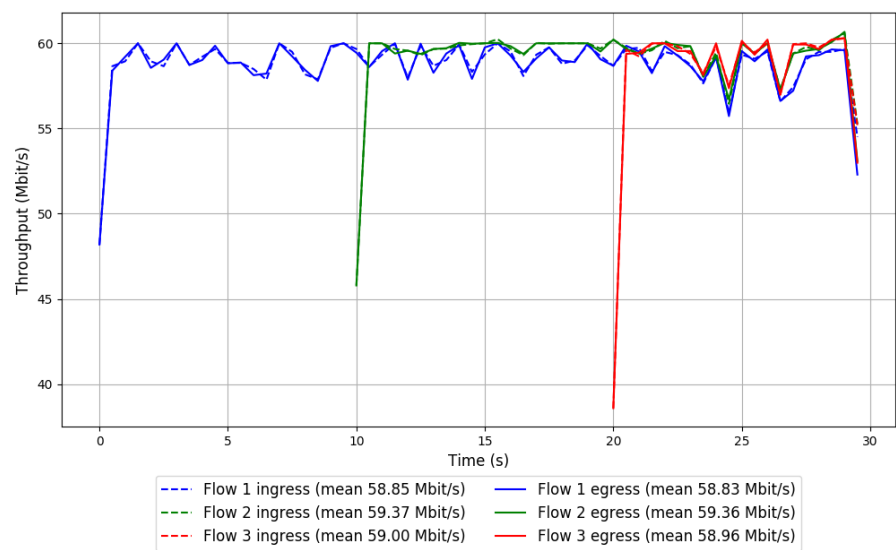
-- Flow 3:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.20%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: Tue, 01 Aug 2017 06:37:46 +0000

End at: Tue, 01 Aug 2017 06:38:16 +0000

Local clock offset: 0.577 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:57:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.92 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 59.14 Mbit/s

95th percentile per-packet one-way delay: 1.417 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.10%

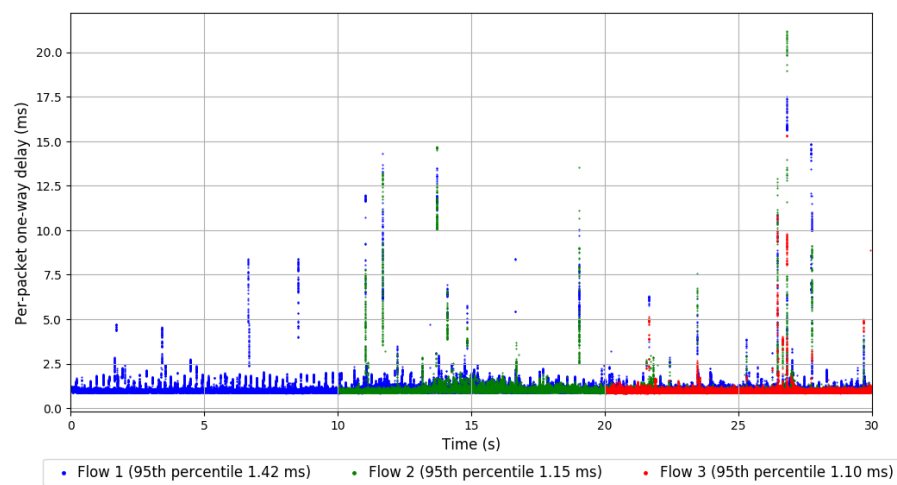
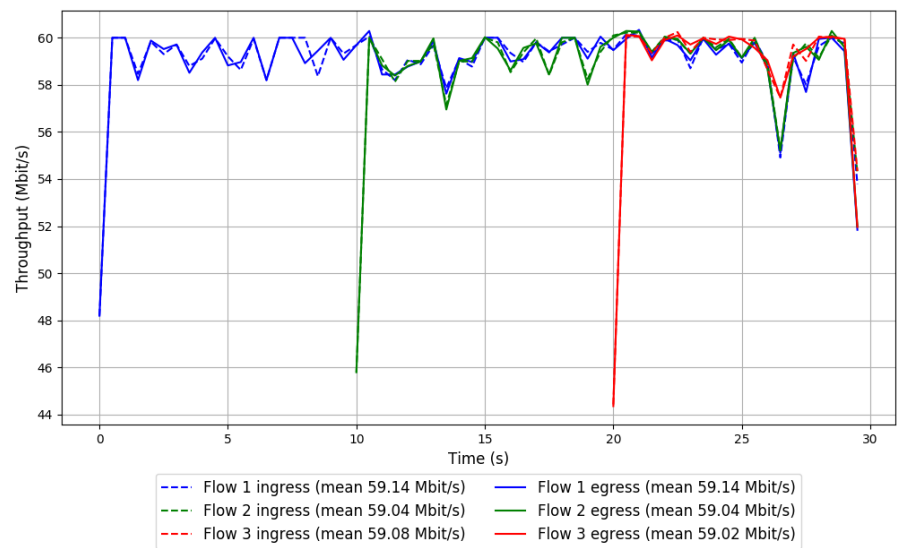
-- Flow 3:

Average throughput: 59.02 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.23%

Run 10: Report of KohoCC — Data Link



Run 1: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 03:16:09 +0000

End at: Tue, 01 Aug 2017 03:16:39 +0000

Local clock offset: -0.054 ms

Remote clock offset: -1.125 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:58:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 451.93 Mbit/s

95th percentile per-packet one-way delay: 32.491 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 263.85 Mbit/s

95th percentile per-packet one-way delay: 26.825 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 204.81 Mbit/s

95th percentile per-packet one-way delay: 36.104 ms

Loss rate: 0.22%

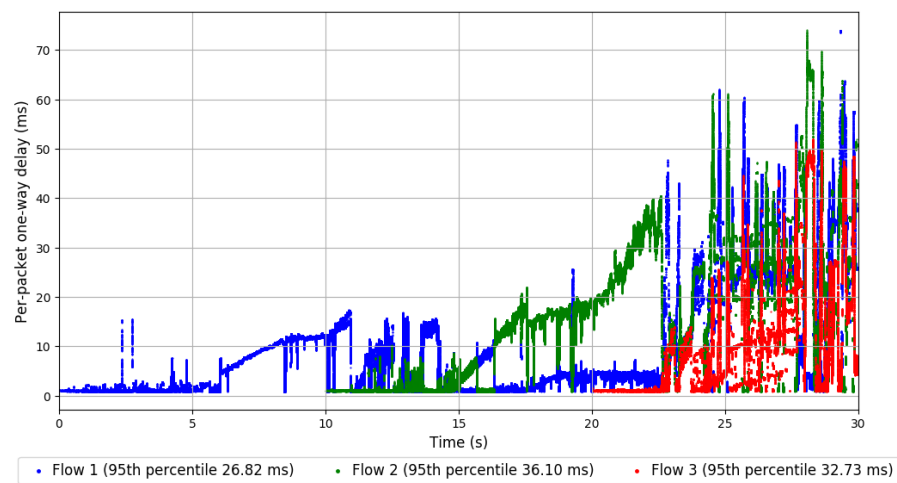
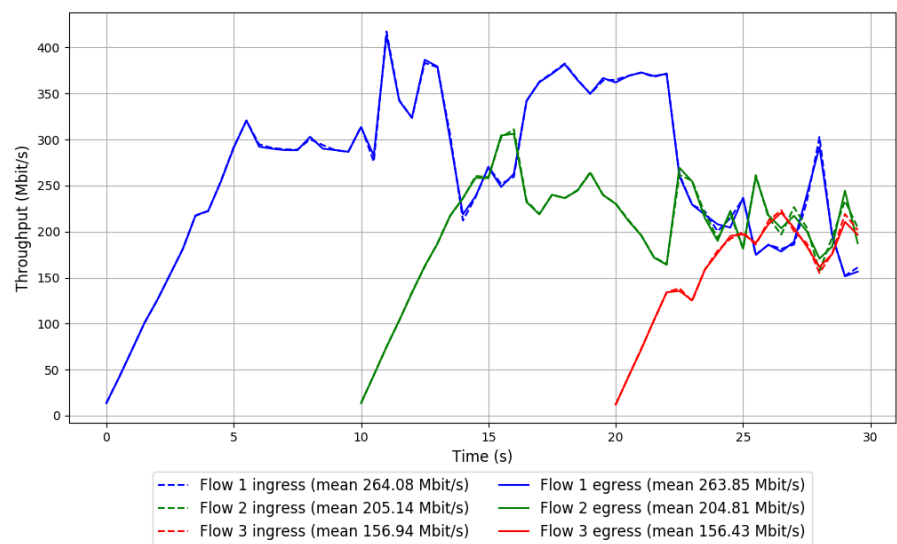
-- Flow 3:

Average throughput: 156.43 Mbit/s

95th percentile per-packet one-way delay: 32.727 ms

Loss rate: 0.52%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 03:38:37 +0000

End at: Tue, 01 Aug 2017 03:39:07 +0000

Local clock offset: -0.067 ms

Remote clock offset: -0.987 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:58:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 439.44 Mbit/s

95th percentile per-packet one-way delay: 25.392 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 251.69 Mbit/s

95th percentile per-packet one-way delay: 25.568 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 200.29 Mbit/s

95th percentile per-packet one-way delay: 19.530 ms

Loss rate: 0.20%

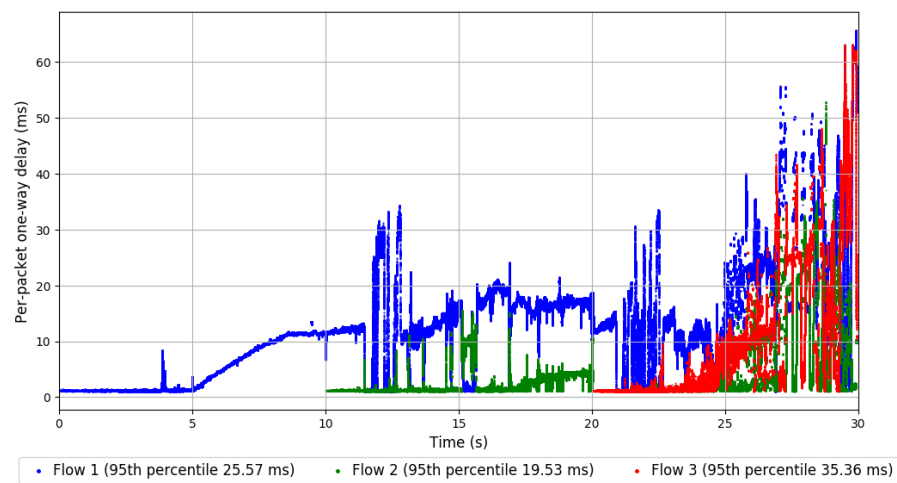
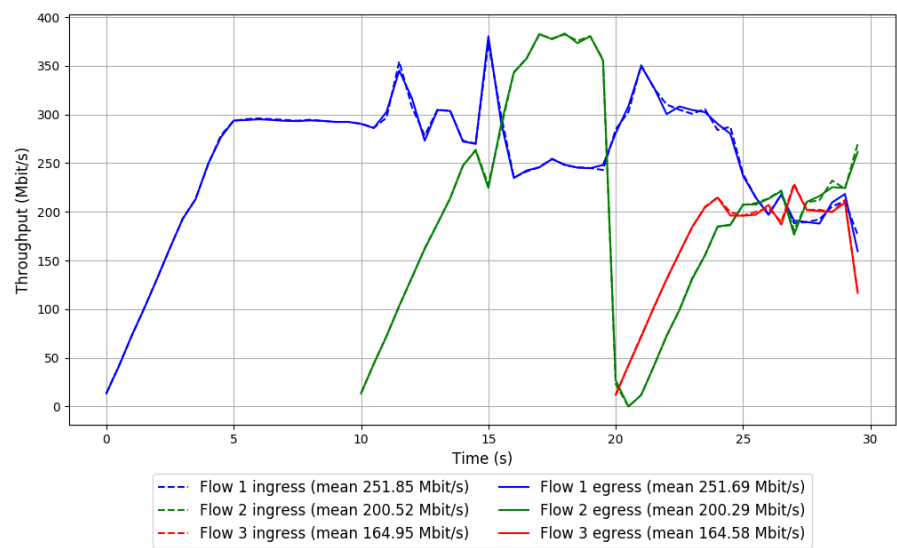
-- Flow 3:

Average throughput: 164.58 Mbit/s

95th percentile per-packet one-way delay: 35.362 ms

Loss rate: 0.41%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 04:01:11 +0000

End at: Tue, 01 Aug 2017 04:01:41 +0000

Local clock offset: -0.139 ms

Remote clock offset: -1.013 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:59:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 466.57 Mbit/s

95th percentile per-packet one-way delay: 33.211 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 259.70 Mbit/s

95th percentile per-packet one-way delay: 32.885 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 233.71 Mbit/s

95th percentile per-packet one-way delay: 34.053 ms

Loss rate: 0.19%

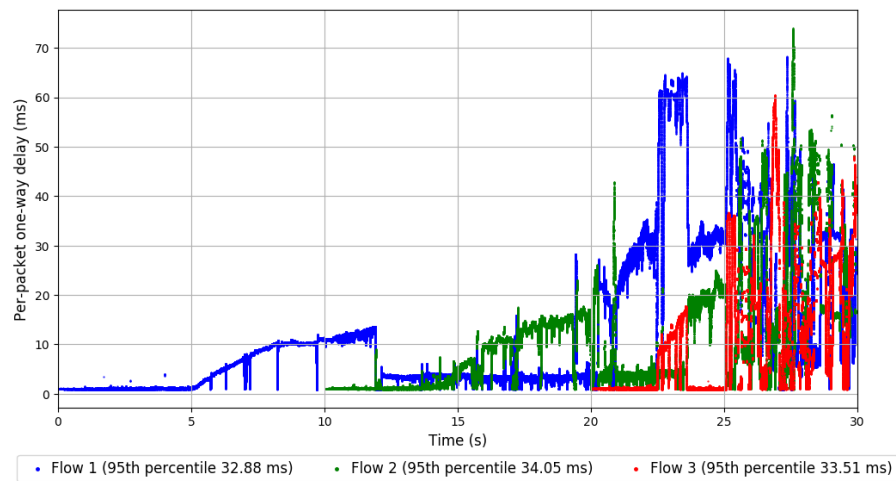
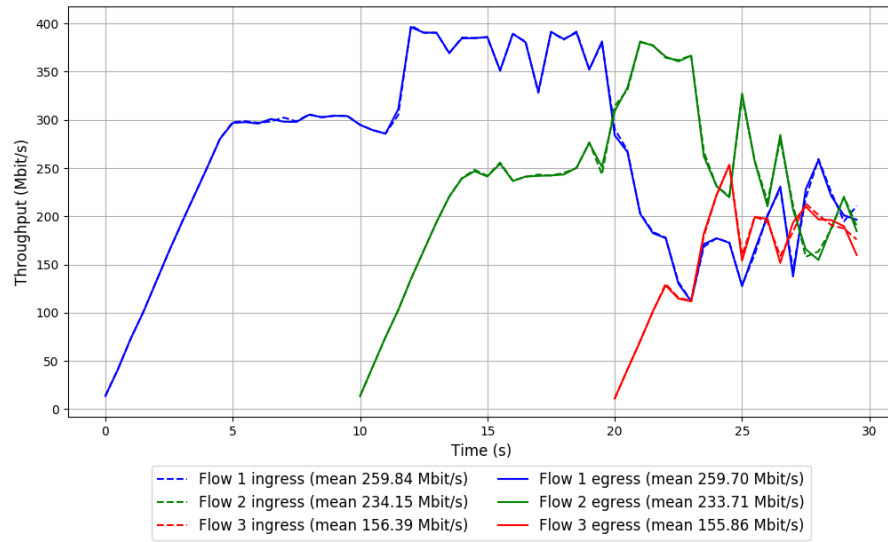
-- Flow 3:

Average throughput: 155.86 Mbit/s

95th percentile per-packet one-way delay: 33.505 ms

Loss rate: 0.52%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 04:24:00 +0000

End at: Tue, 01 Aug 2017 04:24:30 +0000

Local clock offset: -0.098 ms

Remote clock offset: -1.067 ms

Below is generated by plot.py at Tue, 01 Aug 2017 09:59:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.55 Mbit/s

95th percentile per-packet one-way delay: 31.113 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 282.59 Mbit/s

95th percentile per-packet one-way delay: 20.689 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 193.41 Mbit/s

95th percentile per-packet one-way delay: 35.403 ms

Loss rate: 0.23%

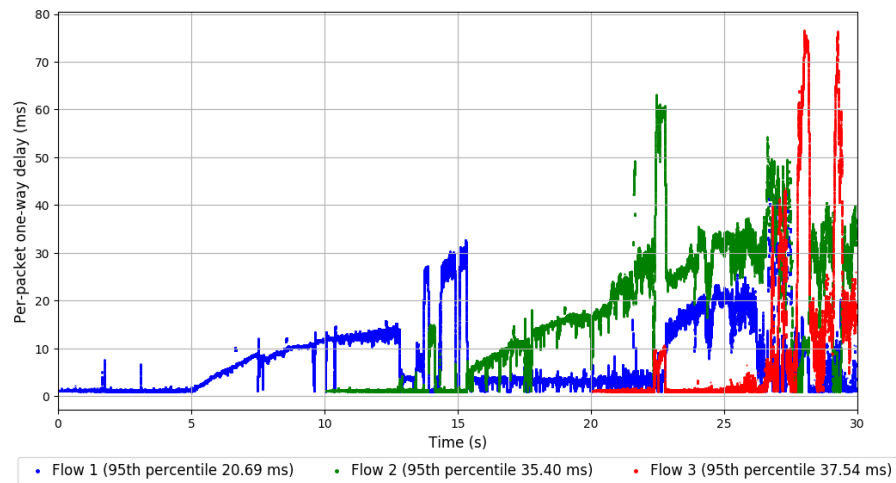
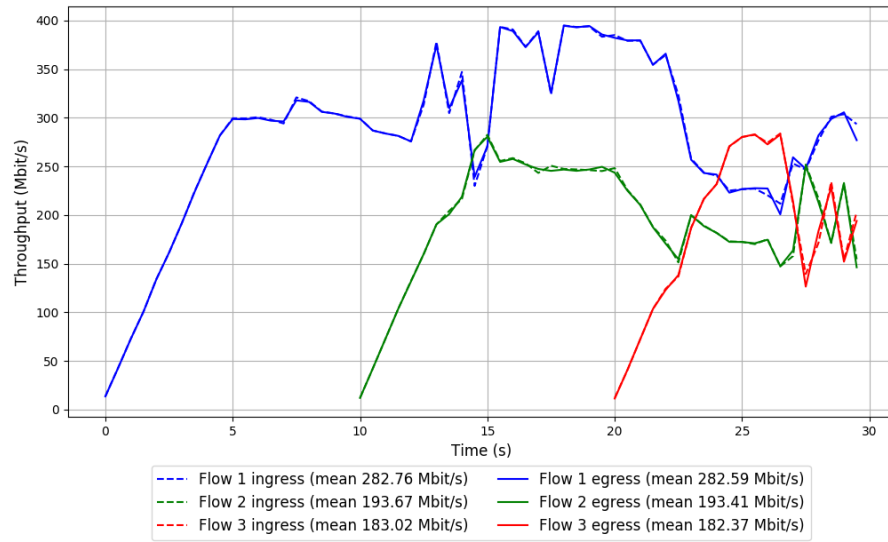
-- Flow 3:

Average throughput: 182.37 Mbit/s

95th percentile per-packet one-way delay: 37.541 ms

Loss rate: 0.49%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 04:46:31 +0000

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

Local clock offset: -0.204 ms

Remote clock offset: -1.017 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:00:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.58 Mbit/s

95th percentile per-packet one-way delay: 22.439 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 258.28 Mbit/s

95th percentile per-packet one-way delay: 19.131 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 238.34 Mbit/s

95th percentile per-packet one-way delay: 32.734 ms

Loss rate: 0.19%

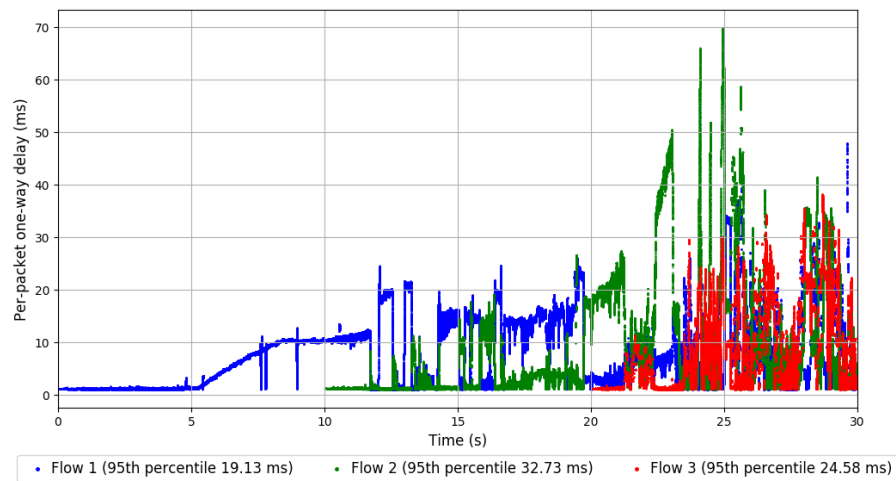
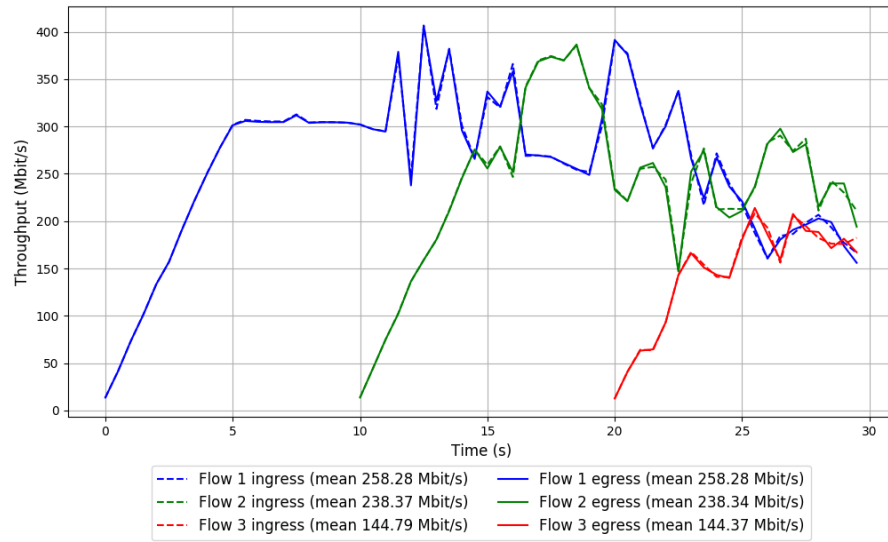
-- Flow 3:

Average throughput: 144.37 Mbit/s

95th percentile per-packet one-way delay: 24.578 ms

Loss rate: 0.54%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 05:08:59 +0000

End at: Tue, 01 Aug 2017 05:09:29 +0000

Local clock offset: -0.307 ms

Remote clock offset: -1.267 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:00:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.74 Mbit/s

95th percentile per-packet one-way delay: 35.785 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 276.48 Mbit/s

95th percentile per-packet one-way delay: 33.745 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 219.94 Mbit/s

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

Loss rate: 0.20%

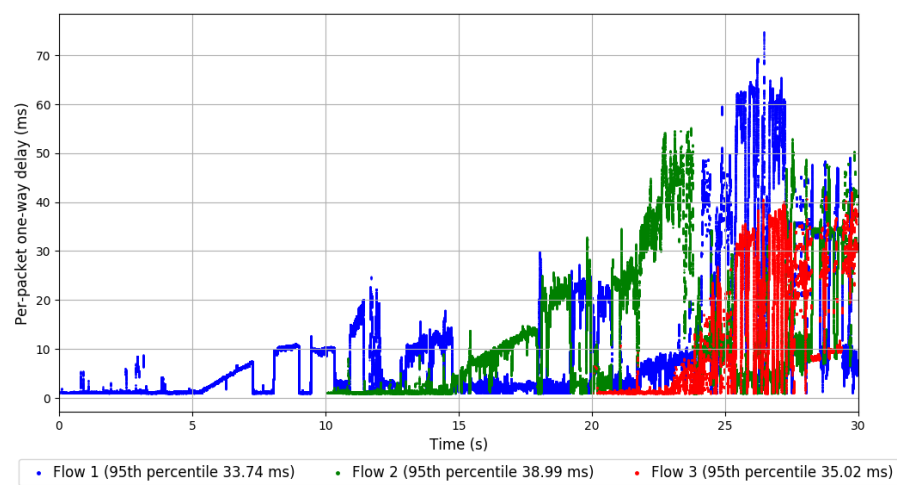
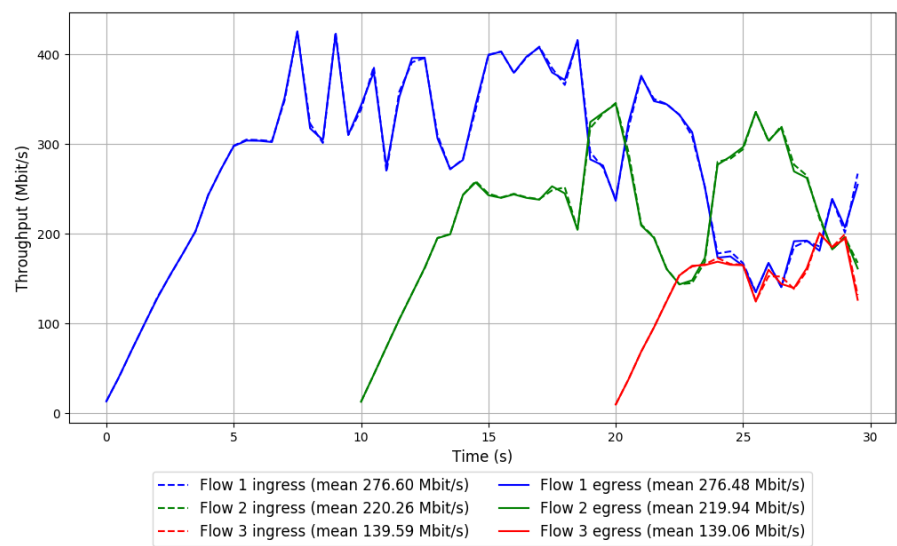
-- Flow 3:

Average throughput: 139.06 Mbit/s

95th percentile per-packet one-way delay: 35.024 ms

Loss rate: 0.54%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 05:31:28 +0000

End at: Tue, 01 Aug 2017 05:31:58 +0000

Local clock offset: -0.283 ms

Remote clock offset: -0.922 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:01:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 467.98 Mbit/s

95th percentile per-packet one-way delay: 30.828 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 284.82 Mbit/s

95th percentile per-packet one-way delay: 22.850 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 200.84 Mbit/s

95th percentile per-packet one-way delay: 39.490 ms

Loss rate: 0.22%

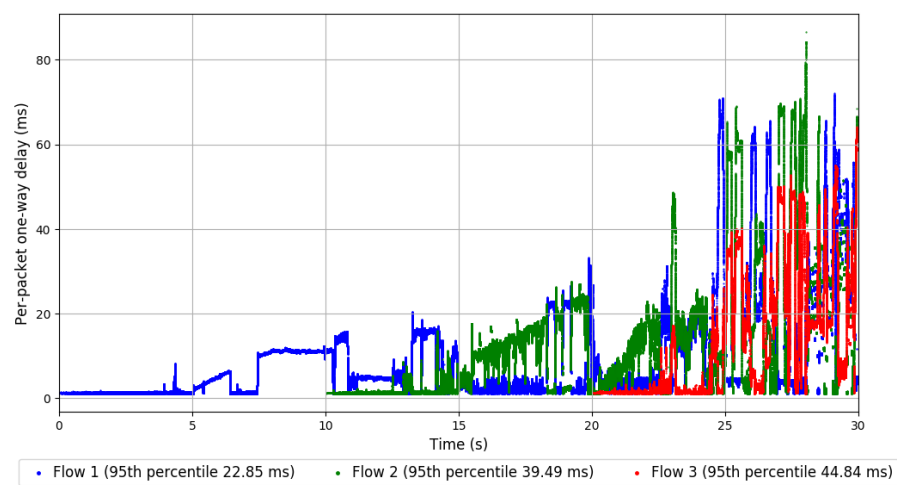
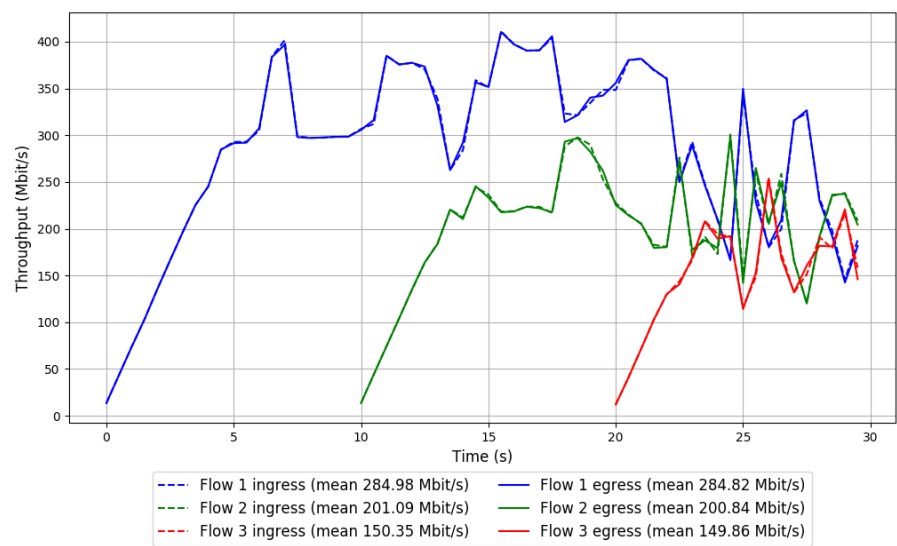
-- Flow 3:

Average throughput: 149.86 Mbit/s

95th percentile per-packet one-way delay: 44.845 ms

Loss rate: 0.53%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 05:53:58 +0000

End at: Tue, 01 Aug 2017 05:54:28 +0000

Local clock offset: 0.092 ms

Remote clock offset: -0.376 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:01:27 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.09 Mbit/s

95th percentile per-packet one-way delay: 33.538 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 291.69 Mbit/s

95th percentile per-packet one-way delay: 27.548 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 189.06 Mbit/s

95th percentile per-packet one-way delay: 42.176 ms

Loss rate: 0.23%

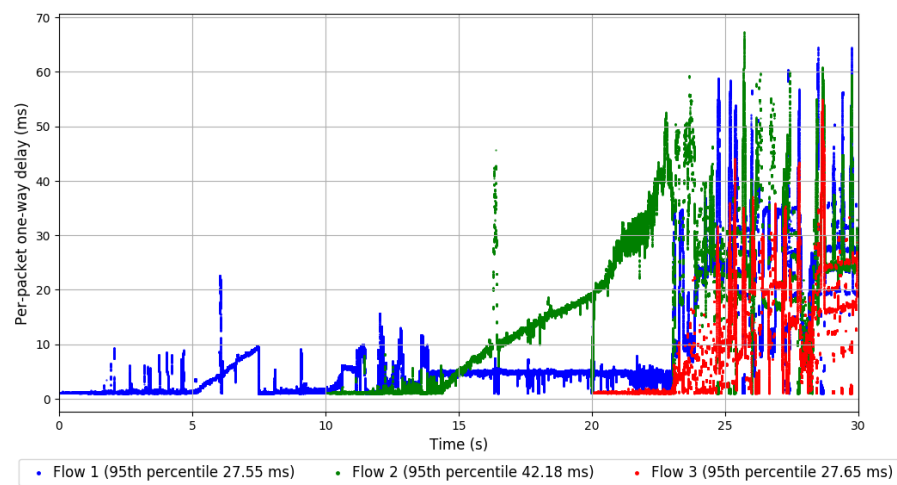
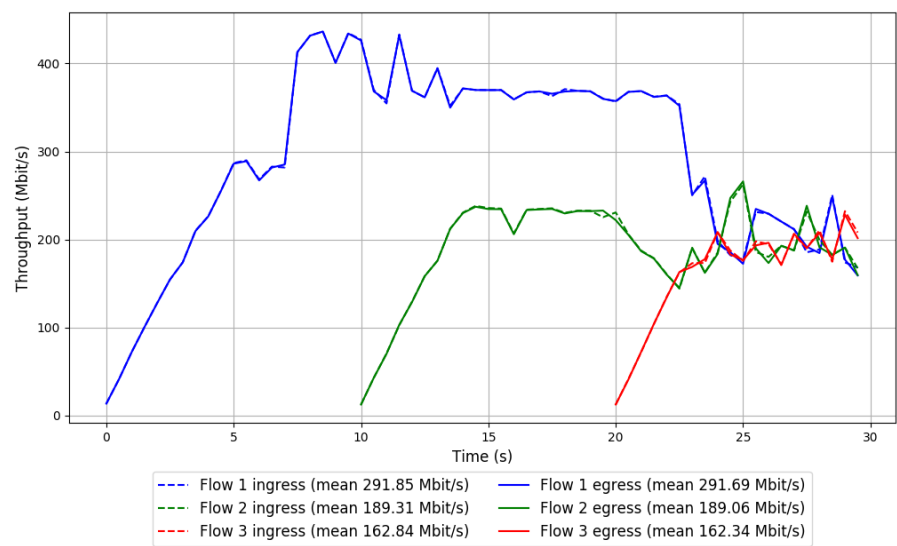
-- Flow 3:

Average throughput: 162.34 Mbit/s

95th percentile per-packet one-way delay: 27.650 ms

Loss rate: 0.51%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: Tue, 01 Aug 2017 06:16:30 +0000

End at: Tue, 01 Aug 2017 06:17:00 +0000

Local clock offset: 0.435 ms

Remote clock offset: -0.359 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:02:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.52 Mbit/s

95th percentile per-packet one-way delay: 30.125 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 264.90 Mbit/s

95th percentile per-packet one-way delay: 31.101 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 248.20 Mbit/s

95th percentile per-packet one-way delay: 27.699 ms

Loss rate: 0.18%

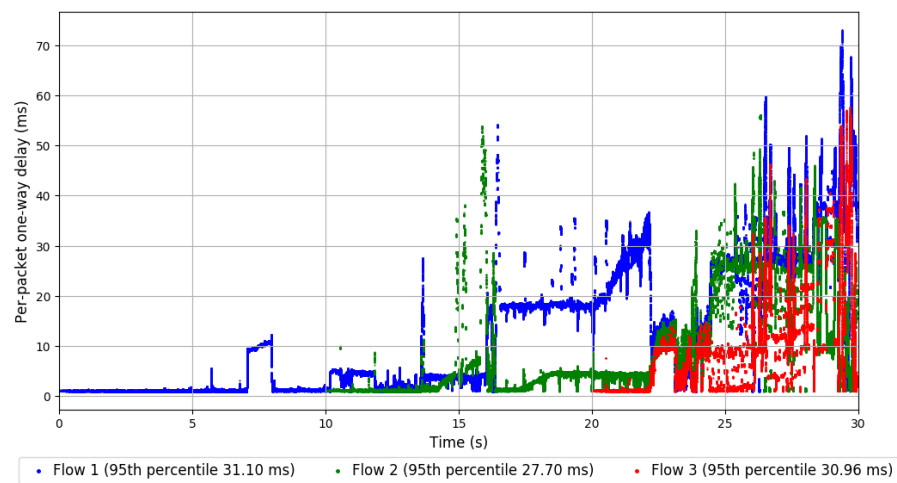
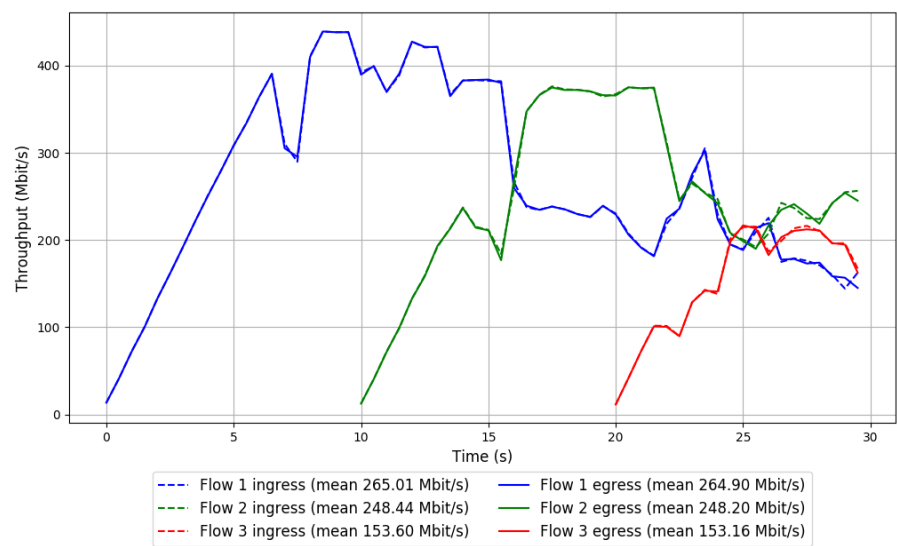
-- Flow 3:

Average throughput: 153.16 Mbit/s

95th percentile per-packet one-way delay: 30.958 ms

Loss rate: 0.50%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

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

Local clock offset: 0.673 ms

Remote clock offset: -0.133 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:02:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.33 Mbit/s

95th percentile per-packet one-way delay: 31.169 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 278.10 Mbit/s

95th percentile per-packet one-way delay: 30.459 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 224.95 Mbit/s

95th percentile per-packet one-way delay: 30.186 ms

Loss rate: 0.20%

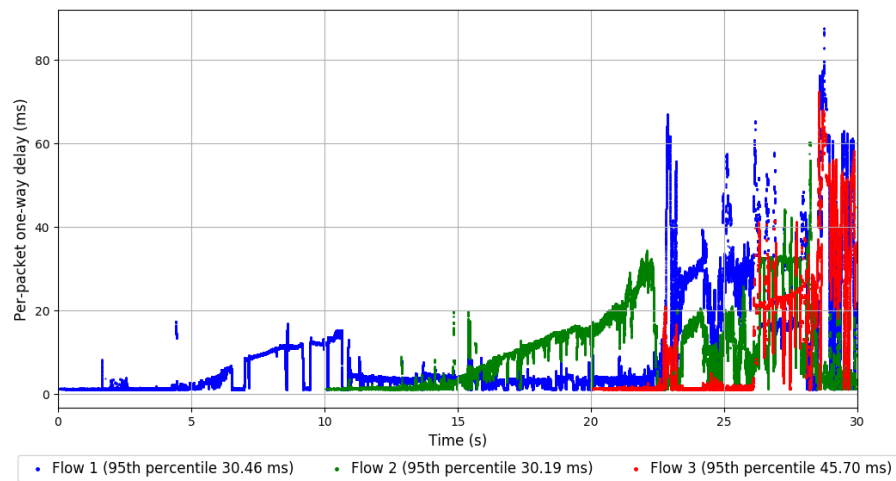
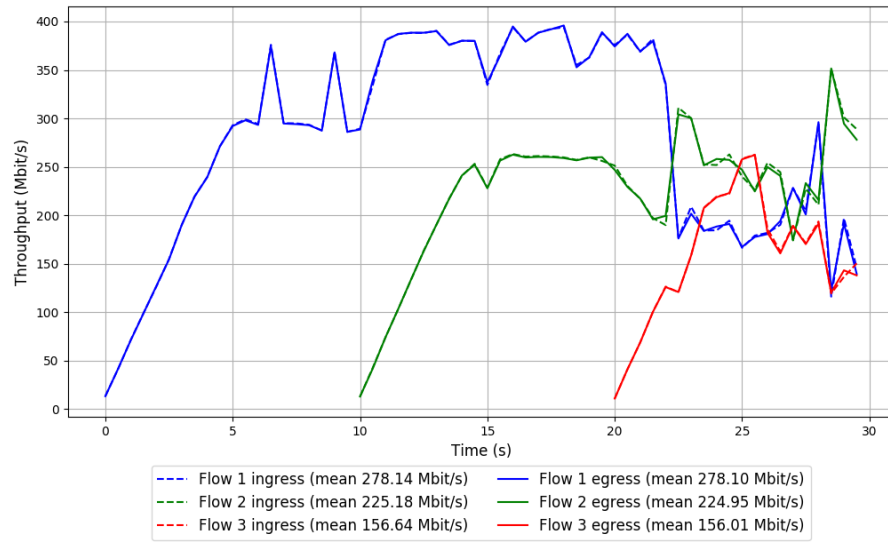
-- Flow 3:

Average throughput: 156.01 Mbit/s

95th percentile per-packet one-way delay: 45.705 ms

Loss rate: 0.52%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: Tue, 01 Aug 2017 03:17:48 +0000

End at: Tue, 01 Aug 2017 03:18:18 +0000

Local clock offset: 0.035 ms

Remote clock offset: -1.164 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:04:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 839.61 Mbit/s

95th percentile per-packet one-way delay: 42.846 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 608.66 Mbit/s

95th percentile per-packet one-way delay: 50.496 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 280.32 Mbit/s

95th percentile per-packet one-way delay: 9.021 ms

Loss rate: 0.33%

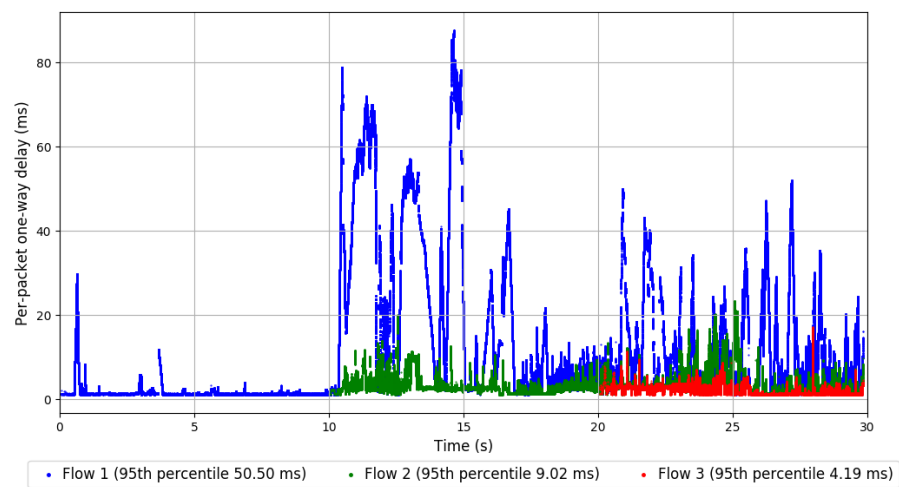
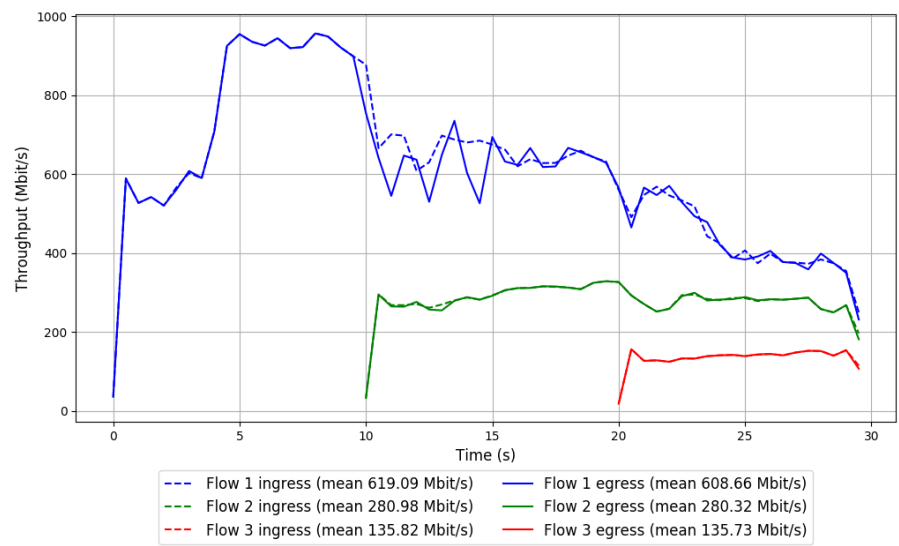
-- Flow 3:

Average throughput: 135.73 Mbit/s

95th percentile per-packet one-way delay: 4.192 ms

Loss rate: 0.31%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: Tue, 01 Aug 2017 03:40:16 +0000

End at: Tue, 01 Aug 2017 03:40:46 +0000

Local clock offset: -0.163 ms

Remote clock offset: -0.998 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:04:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 763.49 Mbit/s

95th percentile per-packet one-way delay: 70.046 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 487.30 Mbit/s

95th percentile per-packet one-way delay: 73.474 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 377.83 Mbit/s

95th percentile per-packet one-way delay: 59.446 ms

Loss rate: 0.70%

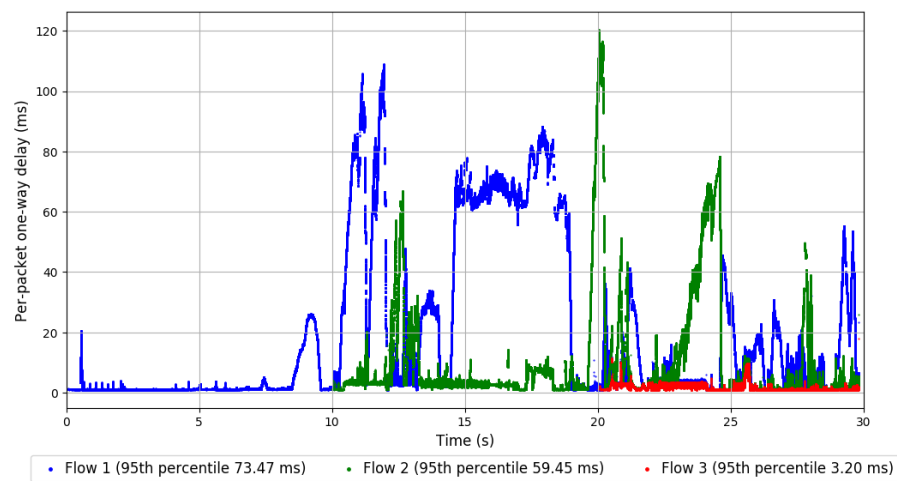
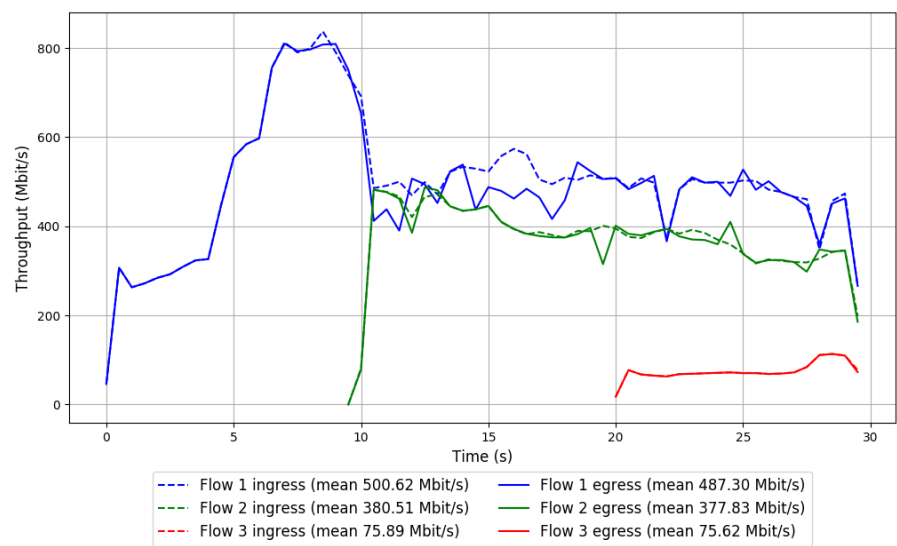
-- Flow 3:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 3.203 ms

Loss rate: 0.39%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: Tue, 01 Aug 2017 04:02:52 +0000

End at: Tue, 01 Aug 2017 04:03:22 +0000

Local clock offset: -0.132 ms

Remote clock offset: -1.054 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:05:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 840.98 Mbit/s

95th percentile per-packet one-way delay: 41.471 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 562.31 Mbit/s

95th percentile per-packet one-way delay: 49.276 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 307.57 Mbit/s

95th percentile per-packet one-way delay: 8.550 ms

Loss rate: 0.07%

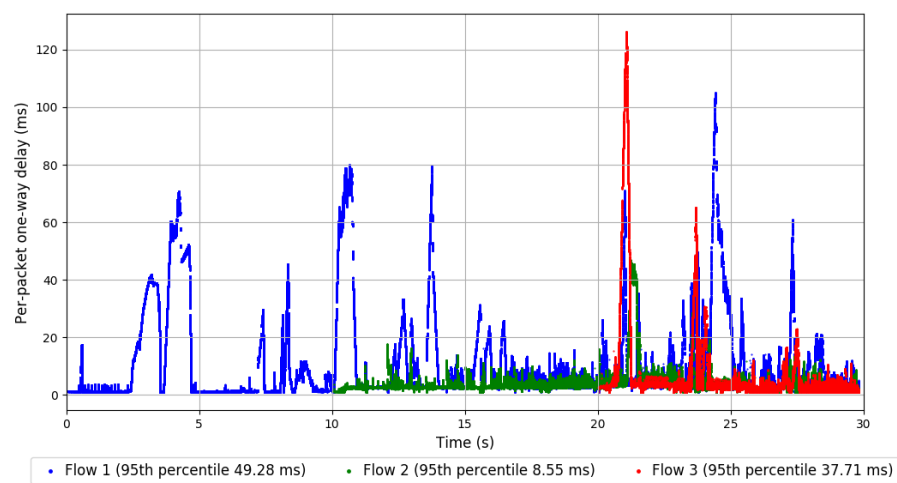
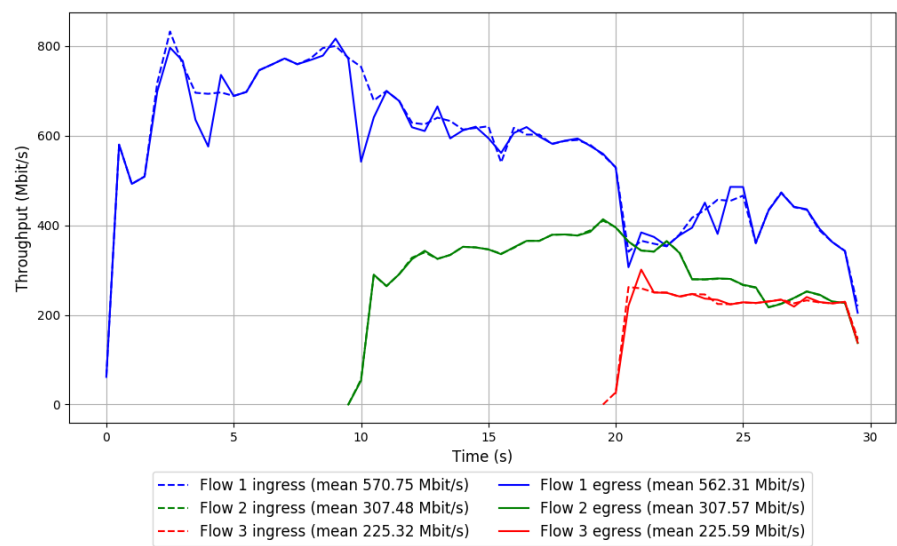
-- Flow 3:

Average throughput: 225.59 Mbit/s

95th percentile per-packet one-way delay: 37.710 ms

Loss rate: 0.20%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: Tue, 01 Aug 2017 04:25:42 +0000

End at: Tue, 01 Aug 2017 04:26:12 +0000

Local clock offset: -0.088 ms

Remote clock offset: -1.165 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:05:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 743.63 Mbit/s

95th percentile per-packet one-way delay: 45.615 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 571.20 Mbit/s

95th percentile per-packet one-way delay: 53.548 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 258.52 Mbit/s

95th percentile per-packet one-way delay: 4.678 ms

Loss rate: 0.55%

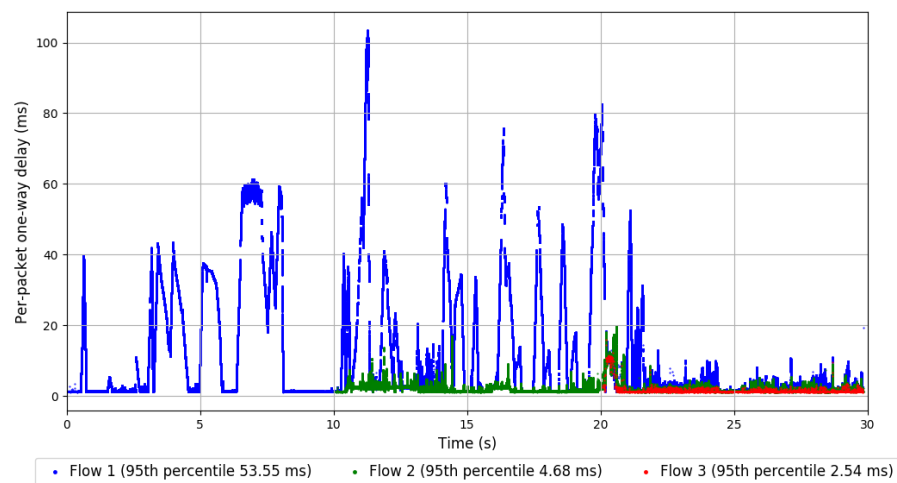
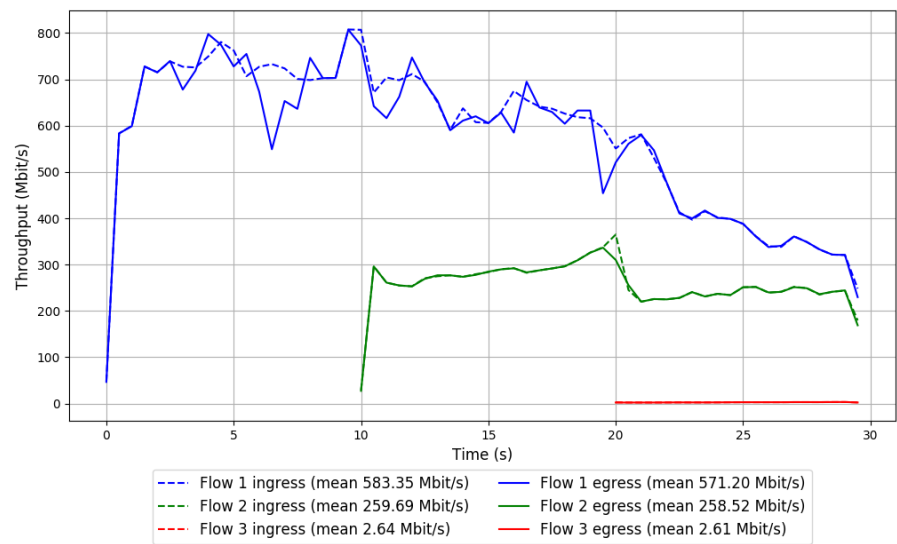
-- Flow 3:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 2.537 ms

Loss rate: 1.30%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: Tue, 01 Aug 2017 04:48:12 +0000

End at: Tue, 01 Aug 2017 04:48:42 +0000

Local clock offset: -0.285 ms

Remote clock offset: -1.002 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:07:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 630.05 Mbit/s

95th percentile per-packet one-way delay: 45.203 ms

Loss rate: 2.92%

-- Flow 1:

Average throughput: 505.17 Mbit/s

95th percentile per-packet one-way delay: 46.584 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 2.777 ms

Loss rate: 0.24%

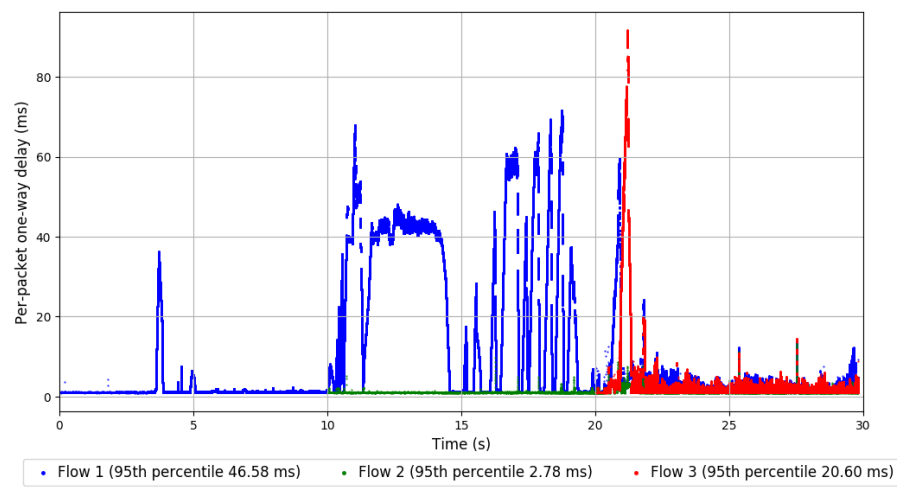
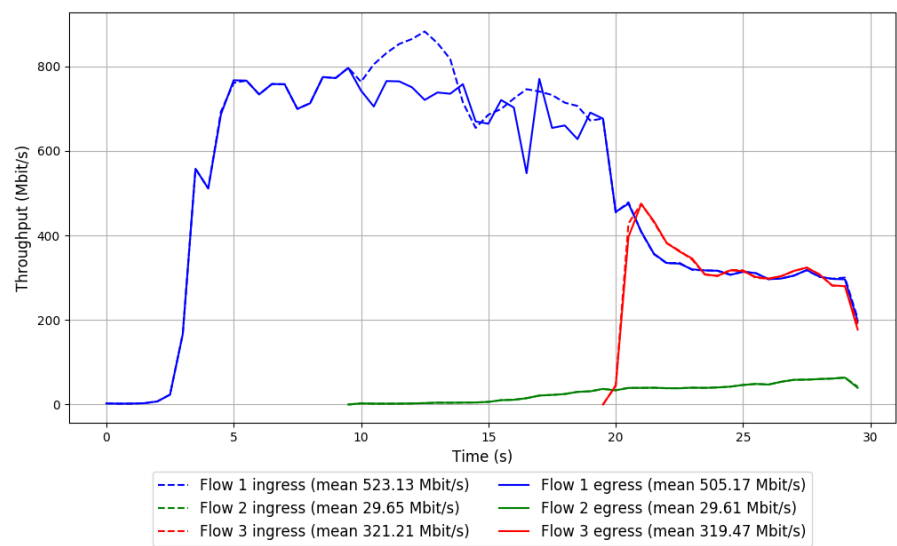
-- Flow 3:

Average throughput: 319.47 Mbit/s

95th percentile per-packet one-way delay: 20.604 ms

Loss rate: 0.67%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: Tue, 01 Aug 2017 05:10:41 +0000

End at: Tue, 01 Aug 2017 05:11:11 +0000

Local clock offset: -0.233 ms

Remote clock offset: -1.294 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:07:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 824.19 Mbit/s

95th percentile per-packet one-way delay: 31.597 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 561.74 Mbit/s

95th percentile per-packet one-way delay: 35.084 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 289.32 Mbit/s

95th percentile per-packet one-way delay: 25.027 ms

Loss rate: 0.85%

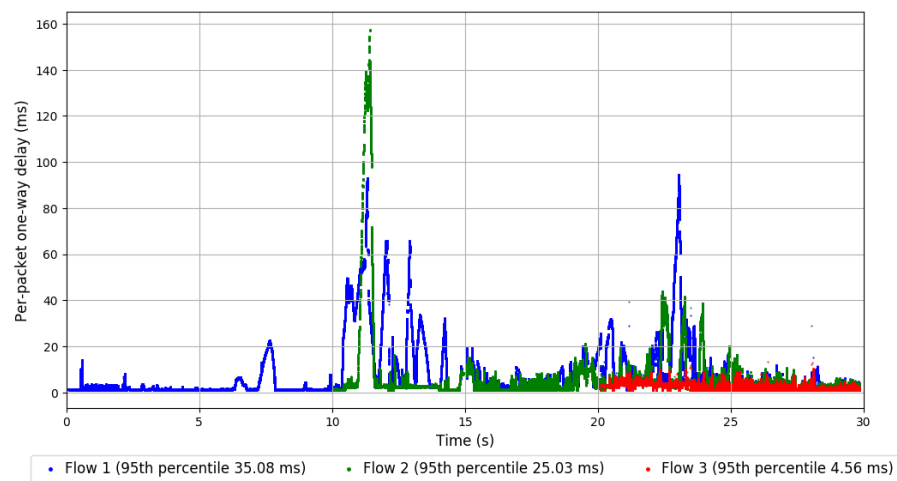
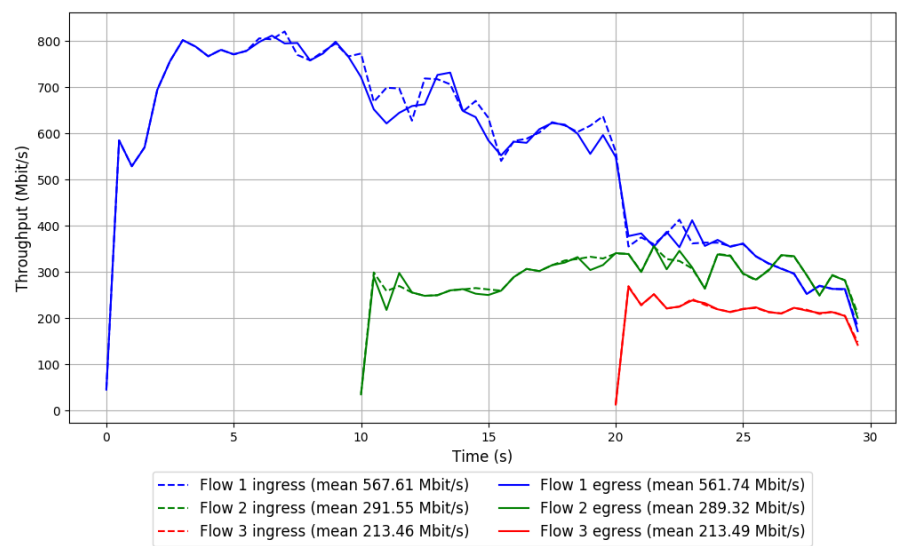
-- Flow 3:

Average throughput: 213.49 Mbit/s

95th percentile per-packet one-way delay: 4.559 ms

Loss rate: 0.18%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: Tue, 01 Aug 2017 05:33:10 +0000

End at: Tue, 01 Aug 2017 05:33:40 +0000

Local clock offset: -0.347 ms

Remote clock offset: -0.884 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:08:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 711.19 Mbit/s

95th percentile per-packet one-way delay: 33.466 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 564.79 Mbit/s

95th percentile per-packet one-way delay: 47.181 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 169.91 Mbit/s

95th percentile per-packet one-way delay: 4.804 ms

Loss rate: 0.22%

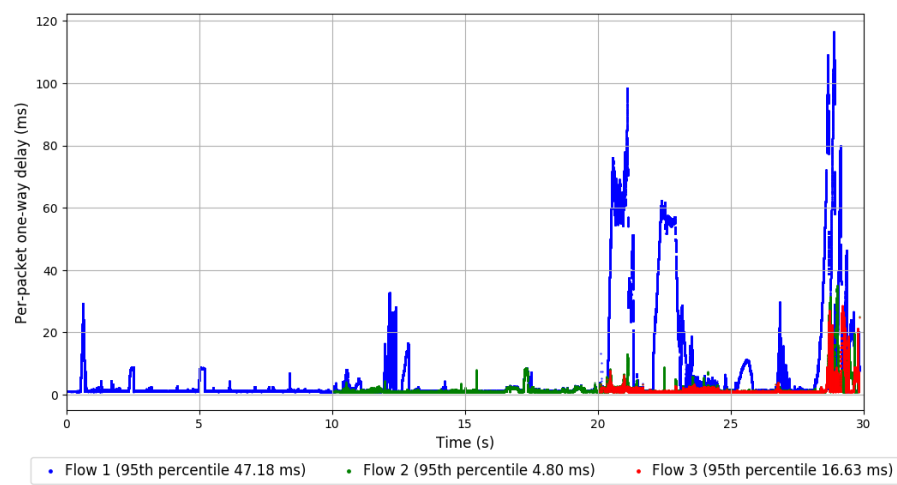
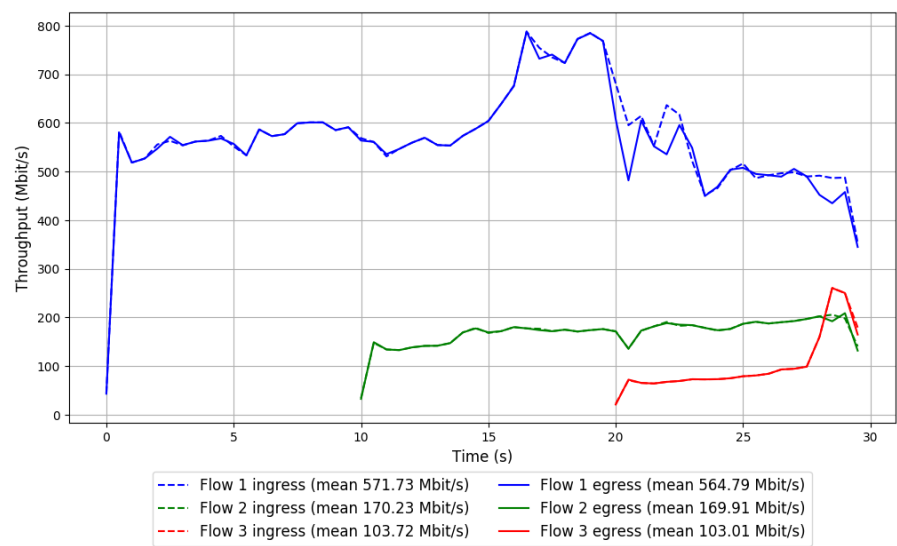
-- Flow 3:

Average throughput: 103.01 Mbit/s

95th percentile per-packet one-way delay: 16.631 ms

Loss rate: 0.74%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: Tue, 01 Aug 2017 05:55:40 +0000

End at: Tue, 01 Aug 2017 05:56:10 +0000

Local clock offset: 0.042 ms

Remote clock offset: -0.308 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:09:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 758.61 Mbit/s

95th percentile per-packet one-way delay: 48.545 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 539.61 Mbit/s

95th percentile per-packet one-way delay: 52.301 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 324.27 Mbit/s

95th percentile per-packet one-way delay: 10.420 ms

Loss rate: 0.39%

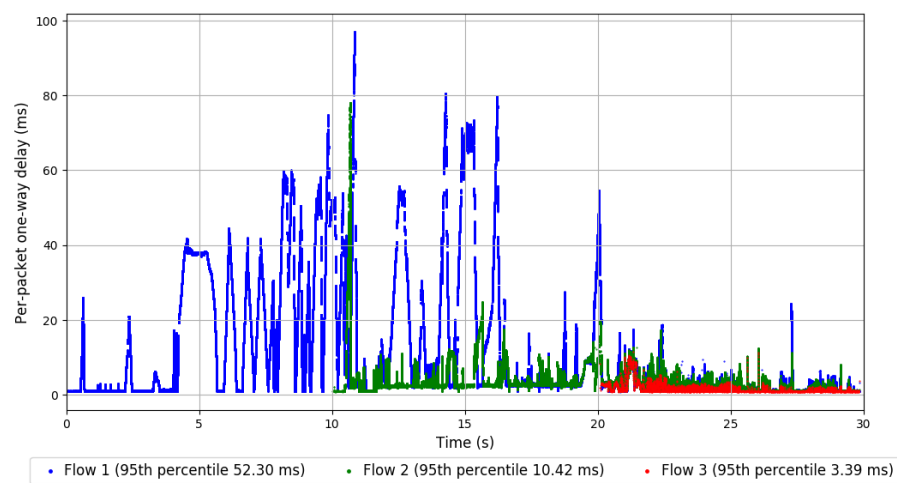
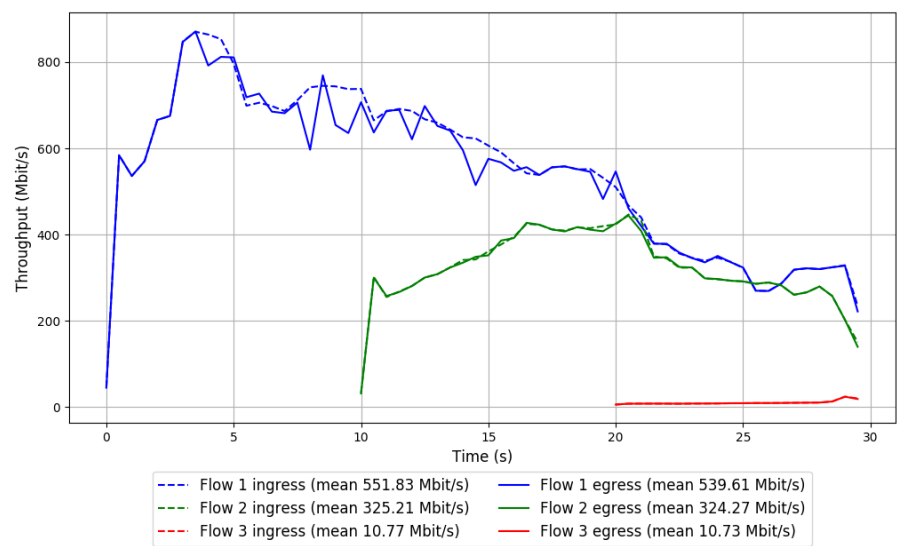
-- Flow 3:

Average throughput: 10.73 Mbit/s

95th percentile per-packet one-way delay: 3.394 ms

Loss rate: 0.75%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: Tue, 01 Aug 2017 06:18:12 +0000

End at: Tue, 01 Aug 2017 06:18:42 +0000

Local clock offset: 0.451 ms

Remote clock offset: -0.415 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:10:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 811.57 Mbit/s

95th percentile per-packet one-way delay: 61.643 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 602.70 Mbit/s

95th percentile per-packet one-way delay: 66.803 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 248.79 Mbit/s

95th percentile per-packet one-way delay: 20.835 ms

Loss rate: 0.44%

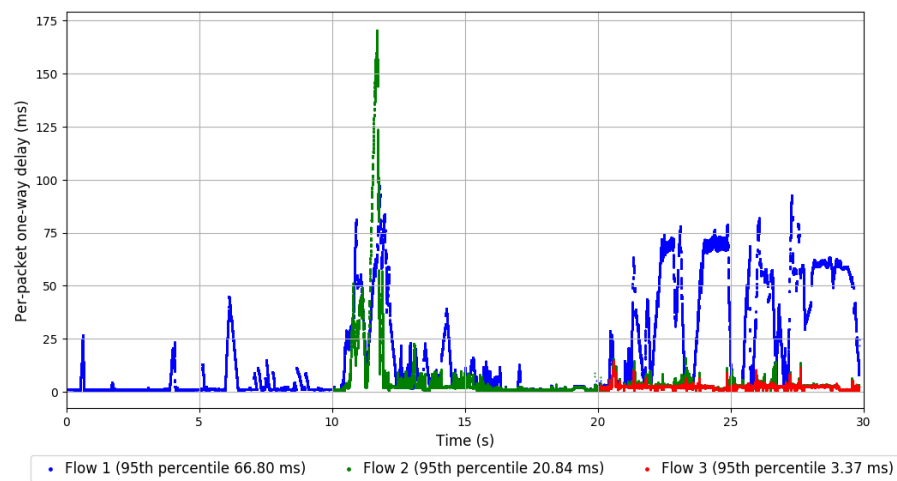
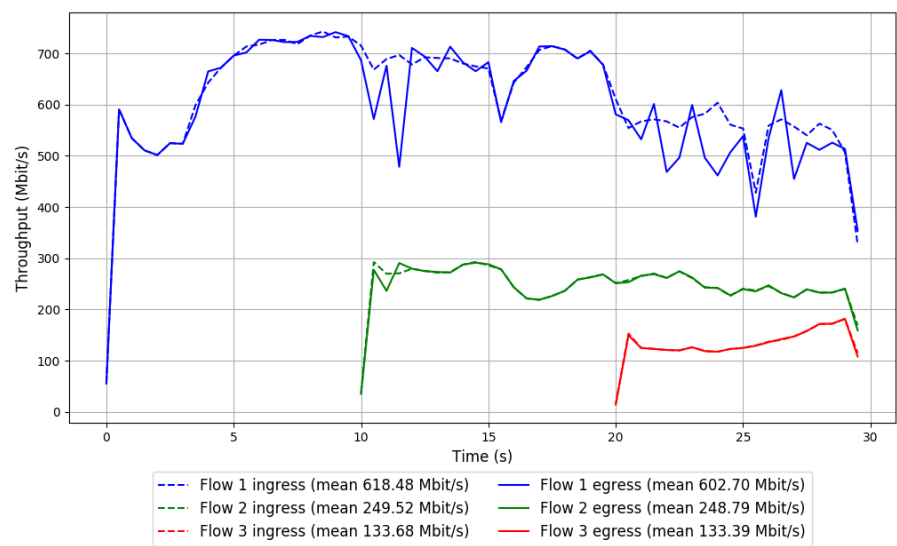
-- Flow 3:

Average throughput: 133.39 Mbit/s

95th percentile per-packet one-way delay: 3.369 ms

Loss rate: 0.43%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: Tue, 01 Aug 2017 06:40:47 +0000

End at: Tue, 01 Aug 2017 06:41:17 +0000

Local clock offset: 0.699 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:10:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 759.15 Mbit/s

95th percentile per-packet one-way delay: 52.766 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 565.82 Mbit/s

95th percentile per-packet one-way delay: 55.039 ms

Loss rate: 3.11%

-- Flow 2:

Average throughput: 283.37 Mbit/s

95th percentile per-packet one-way delay: 9.743 ms

Loss rate: 1.31%

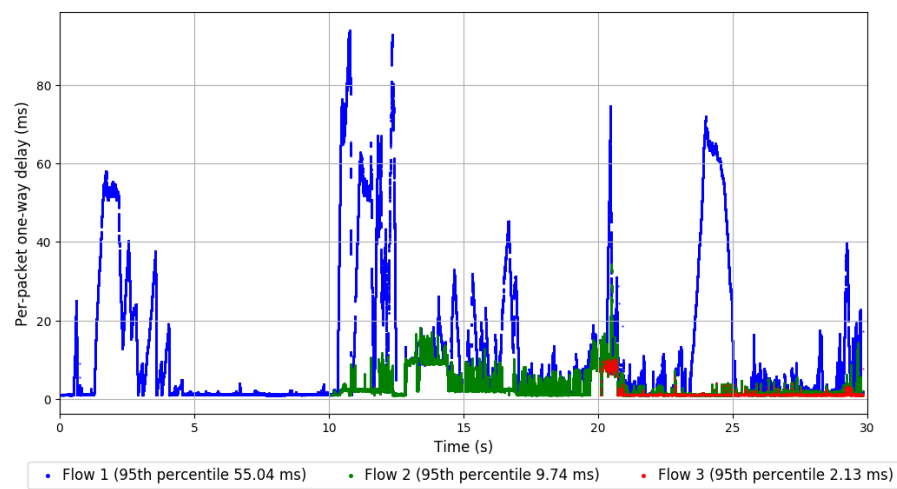
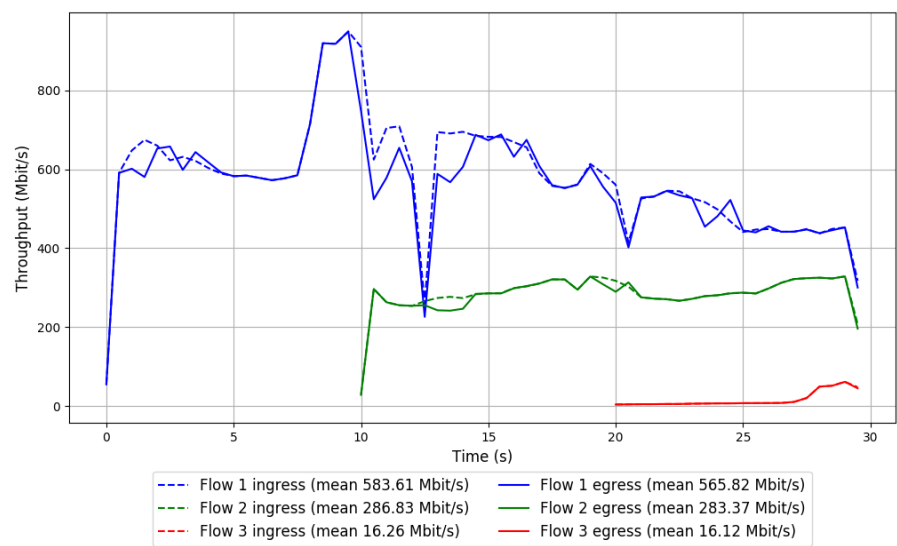
-- Flow 3:

Average throughput: 16.12 Mbit/s

95th percentile per-packet one-way delay: 2.129 ms

Loss rate: 1.07%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 03:19:29 +0000

End at: Tue, 01 Aug 2017 03:19:59 +0000

Local clock offset: -0.081 ms

Remote clock offset: -1.136 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:10:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.20 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.299 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.14%

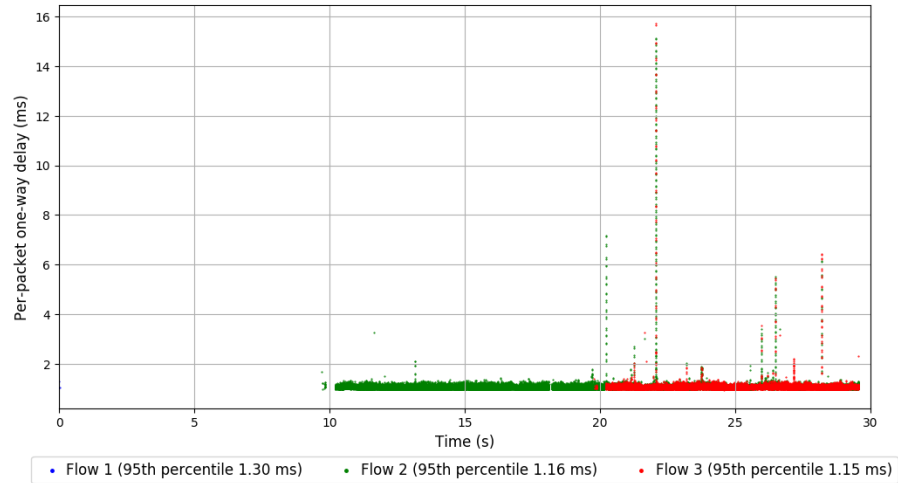
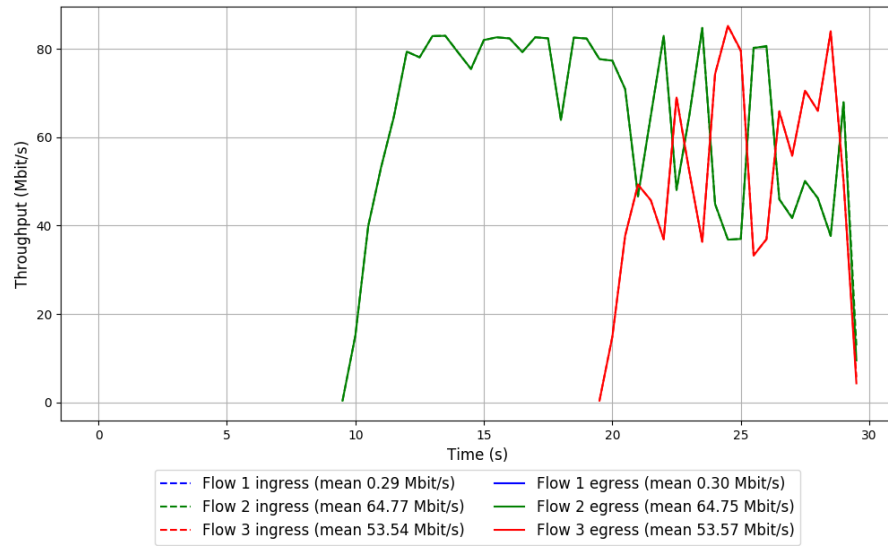
-- Flow 3:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.14%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 03:41:54 +0000

End at: Tue, 01 Aug 2017 03:42:24 +0000

Local clock offset: -0.052 ms

Remote clock offset: -1.014 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:10:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.76 Mbit/s

95th percentile per-packet one-way delay: 1.233 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.05%

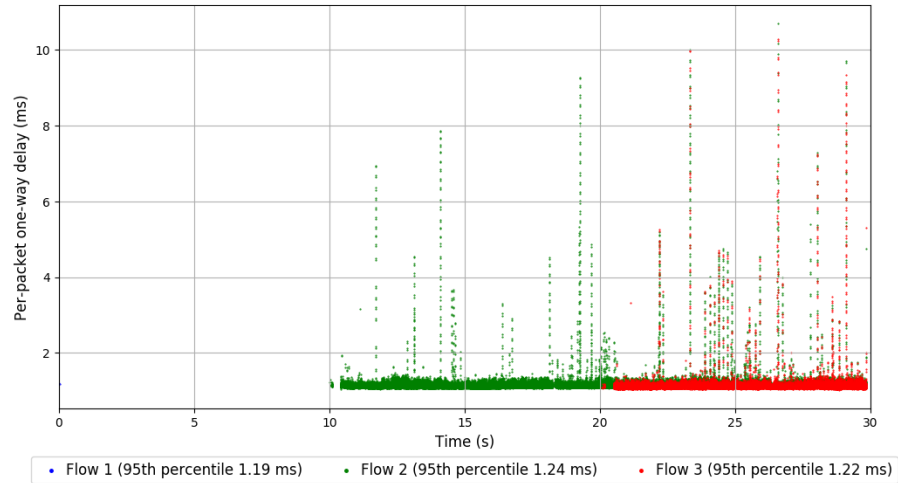
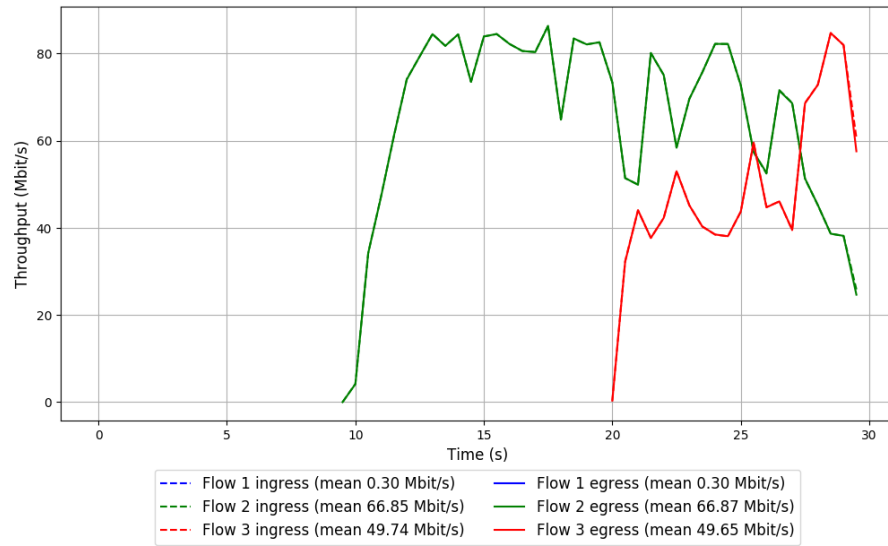
-- Flow 3:

Average throughput: 49.65 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.33%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 04:04:33 +0000

End at: Tue, 01 Aug 2017 04:05:03 +0000

Local clock offset: -0.072 ms

Remote clock offset: -1.116 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:10:49 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.30 Mbit/s

95th percentile per-packet one-way delay: 1.220 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 1.435 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.52 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.09%

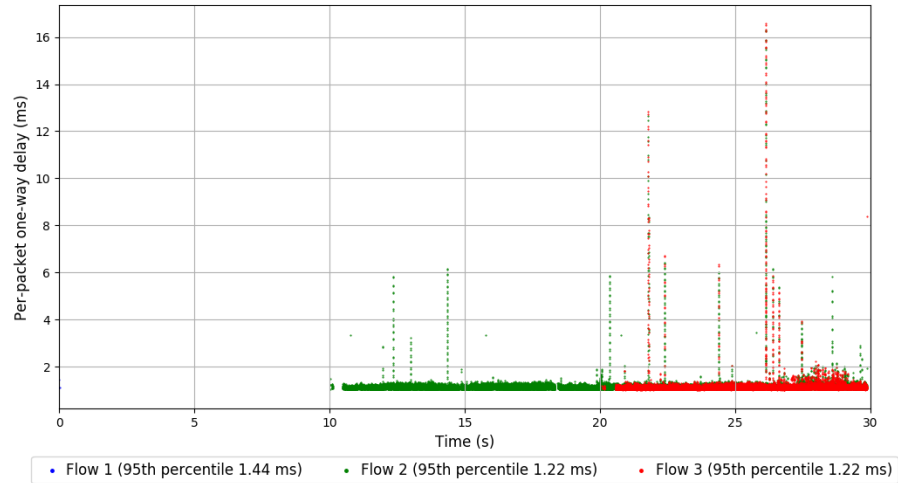
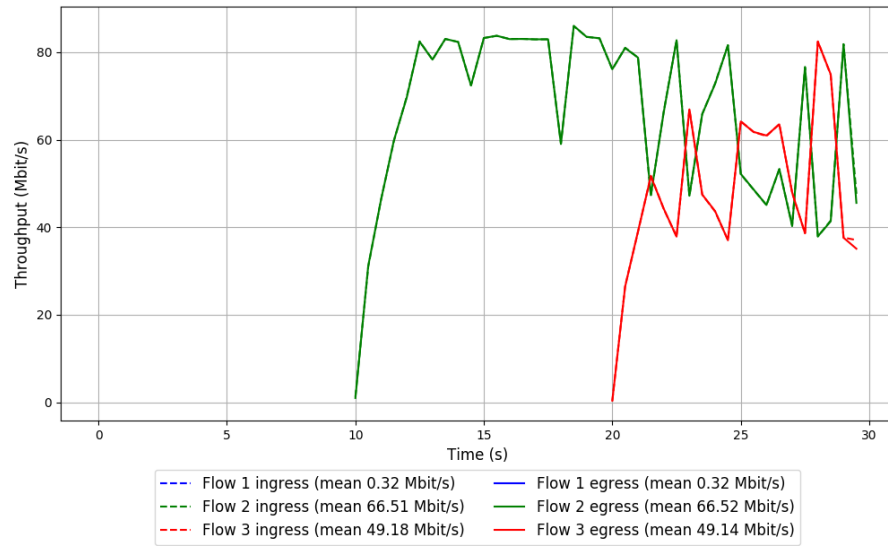
-- Flow 3:

Average throughput: 49.14 Mbit/s

95th percentile per-packet one-way delay: 1.218 ms

Loss rate: 0.22%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 04:27:19 +0000

End at: Tue, 01 Aug 2017 04:27:49 +0000

Local clock offset: -0.118 ms

Remote clock offset: -1.201 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:10:54 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 1.379 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.06%

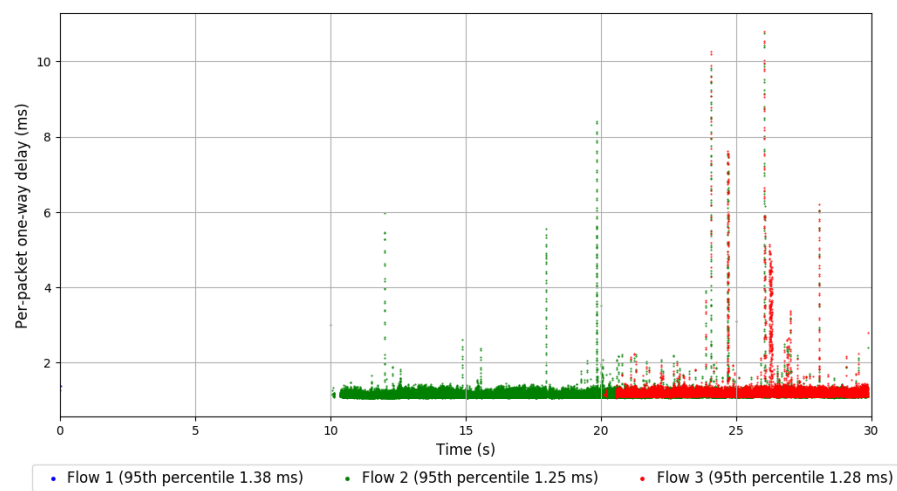
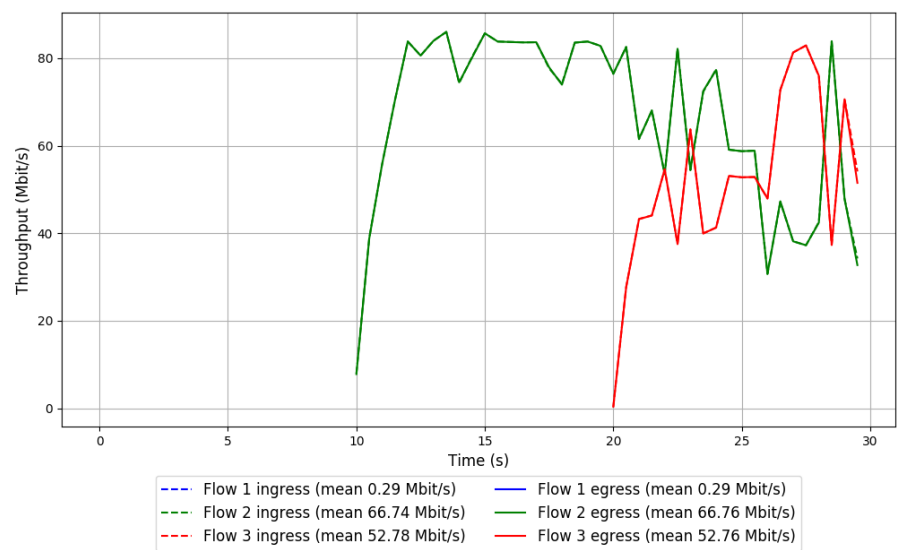
-- Flow 3:

Average throughput: 52.76 Mbit/s

95th percentile per-packet one-way delay: 1.284 ms

Loss rate: 0.27%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 04:49:46 +0000

End at: Tue, 01 Aug 2017 04:50:16 +0000

Local clock offset: -0.198 ms

Remote clock offset: -1.051 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:10:58 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.77 Mbit/s

95th percentile per-packet one-way delay: 1.249 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.32 Mbit/s

95th percentile per-packet one-way delay: 1.254 ms

Loss rate: 0.06%

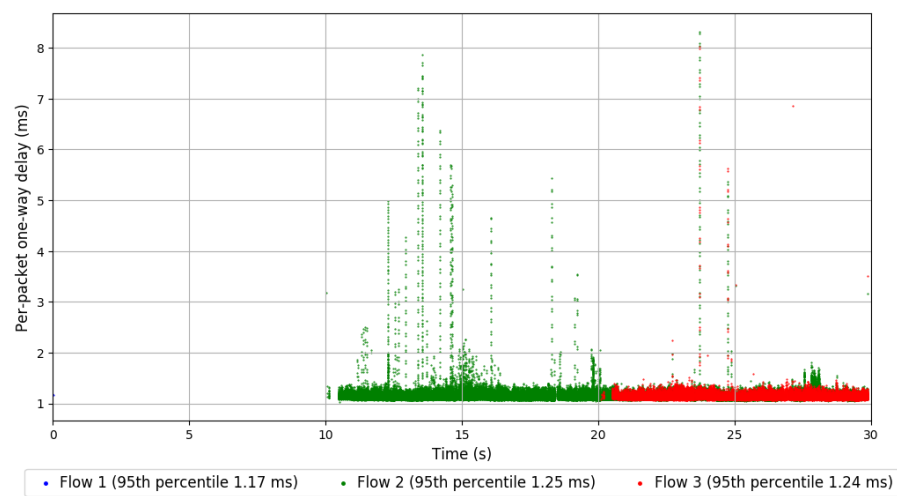
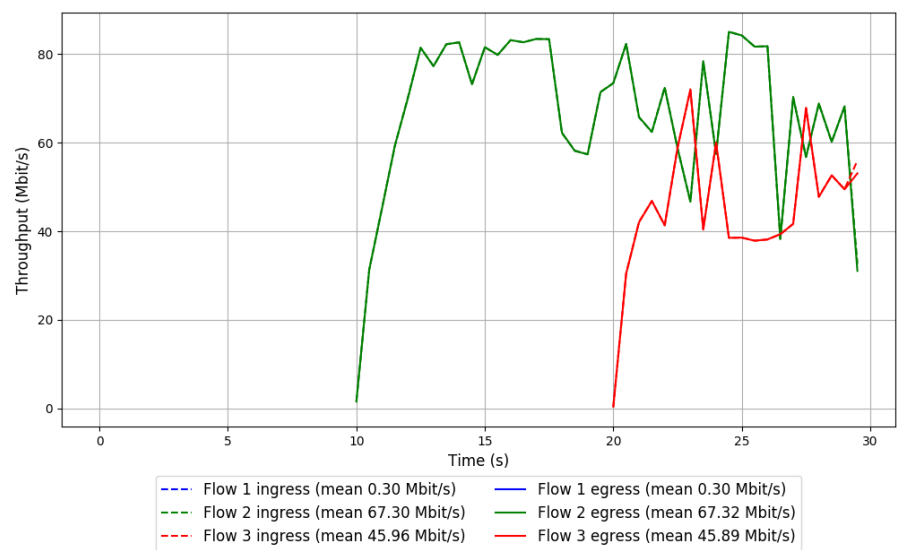
-- Flow 3:

Average throughput: 45.89 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.34%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 05:12:21 +0000

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

Local clock offset: -0.341 ms

Remote clock offset: -1.162 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:11:02 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.59 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.13%

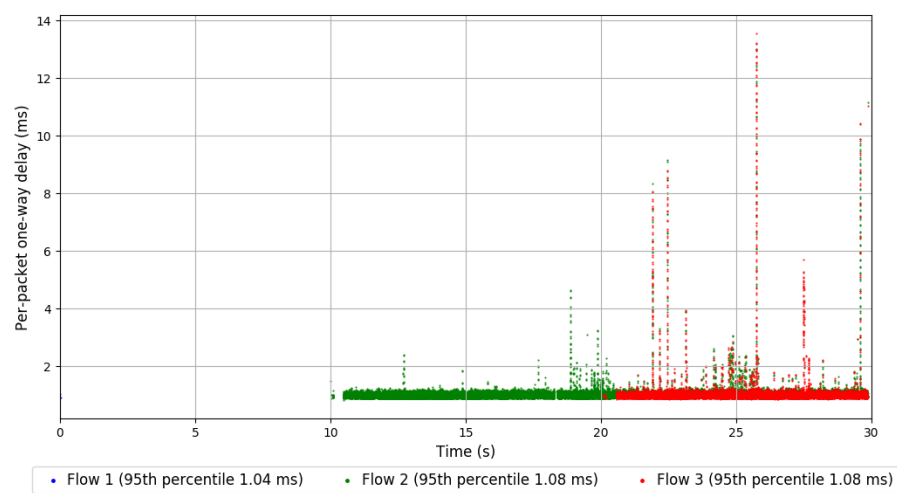
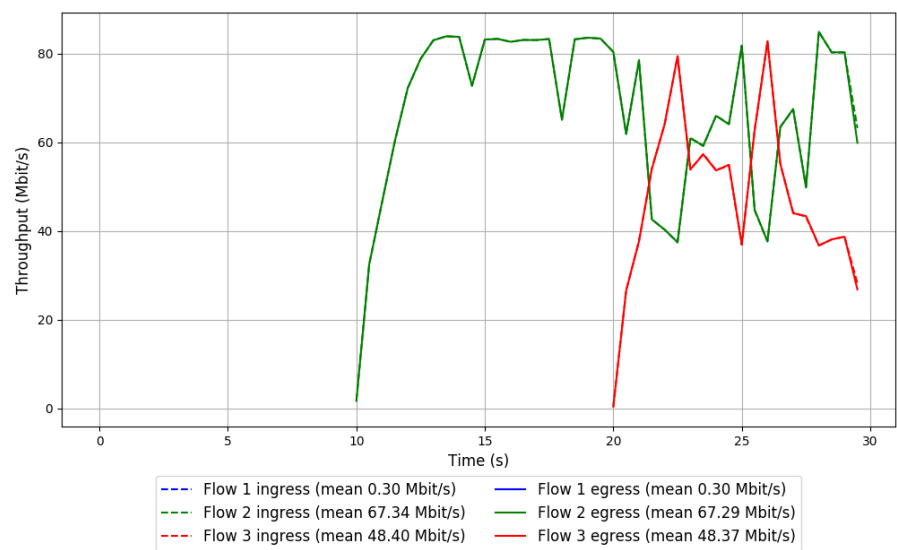
-- Flow 3:

Average throughput: 48.37 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.16%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 05:34:47 +0000

End at: Tue, 01 Aug 2017 05:35:17 +0000

Local clock offset: -0.33 ms

Remote clock offset: -0.852 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:11:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.01 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.70 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.07%

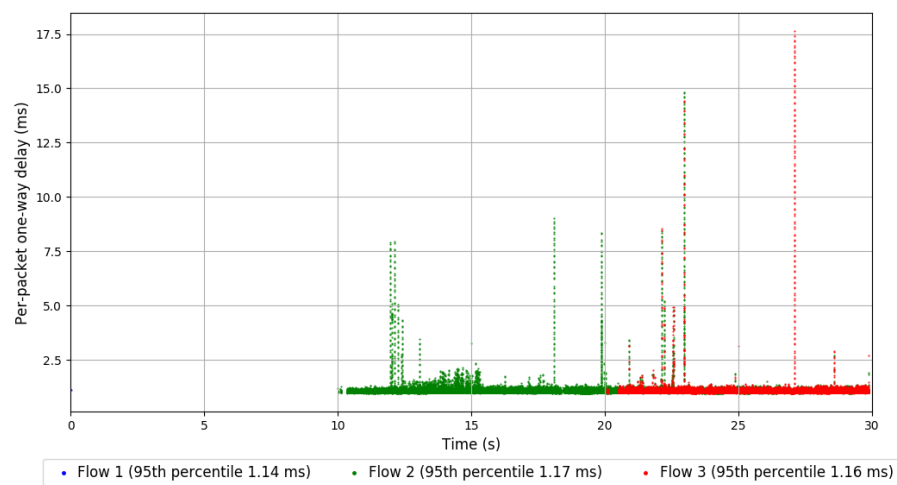
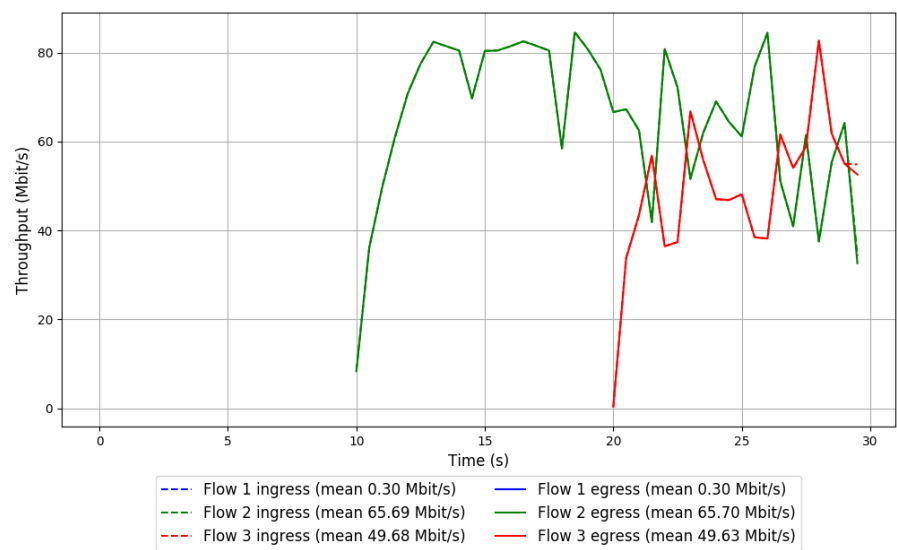
-- Flow 3:

Average throughput: 49.63 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.25%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 05:57:18 +0000

End at: Tue, 01 Aug 2017 05:57:48 +0000

Local clock offset: 0.045 ms

Remote clock offset: -0.406 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:11:11 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.24 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.09%

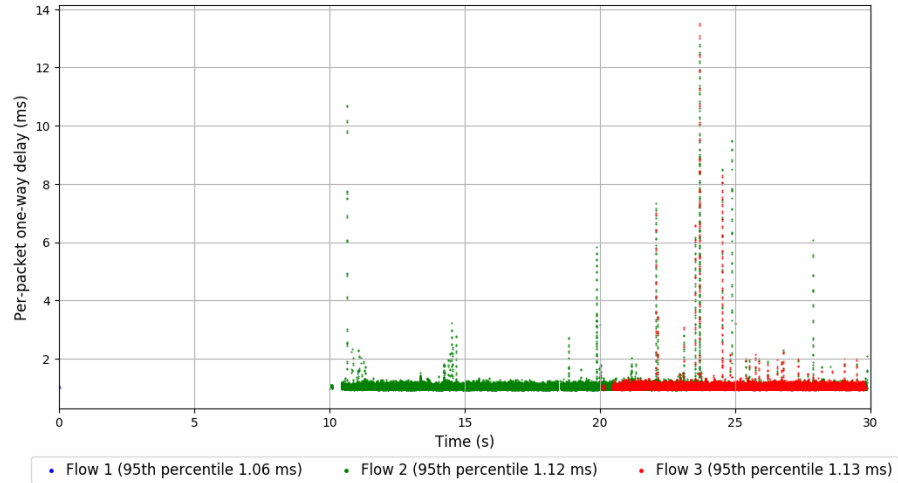
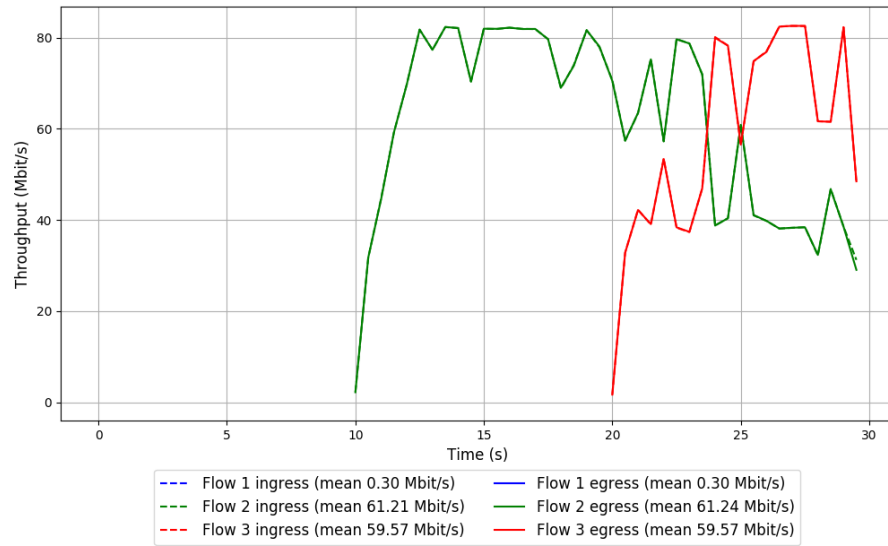
-- Flow 3:

Average throughput: 59.57 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 06:19:52 +0000

End at: Tue, 01 Aug 2017 06:20:22 +0000

Local clock offset: 0.485 ms

Remote clock offset: -0.414 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:11:16 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.51 Mbit/s

95th percentile per-packet one-way delay: 1.241 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.07%

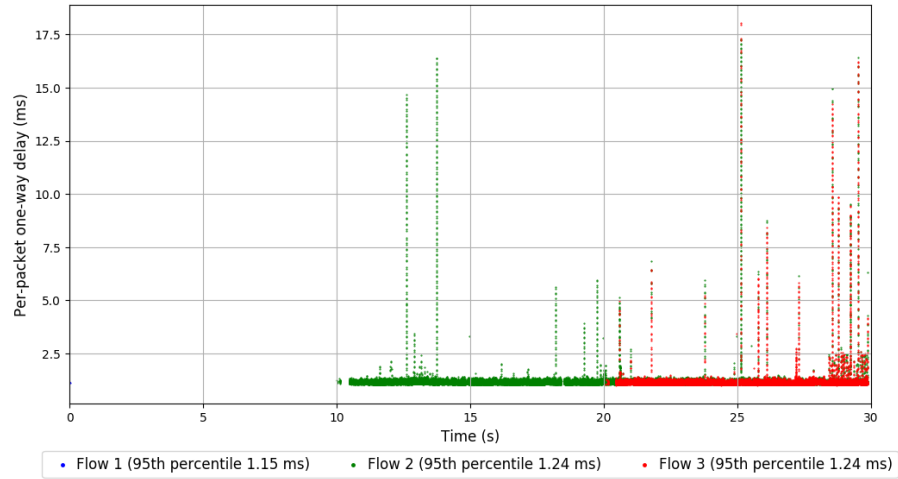
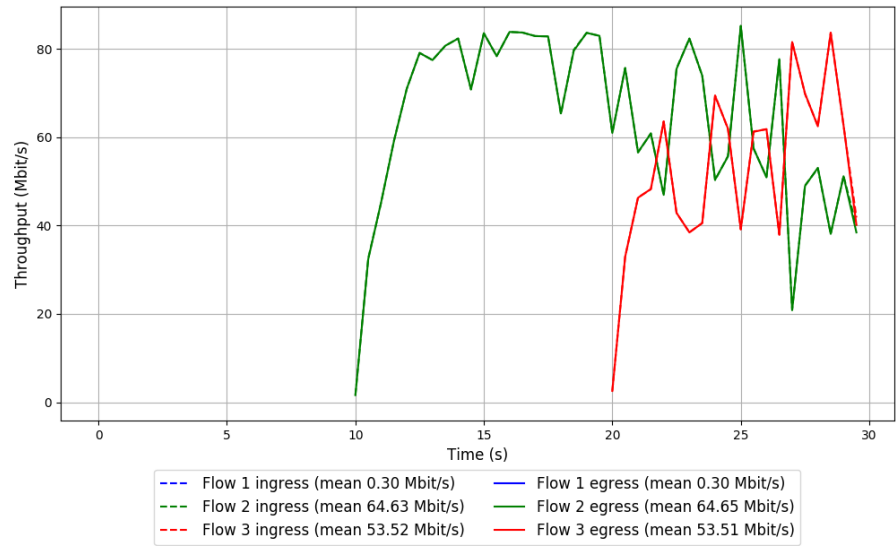
-- Flow 3:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.17%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: Tue, 01 Aug 2017 06:42:25 +0000

End at: Tue, 01 Aug 2017 06:42:55 +0000

Local clock offset: 0.744 ms

Remote clock offset: -0.024 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:11:20 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 1.233 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1.291 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.59 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.08%

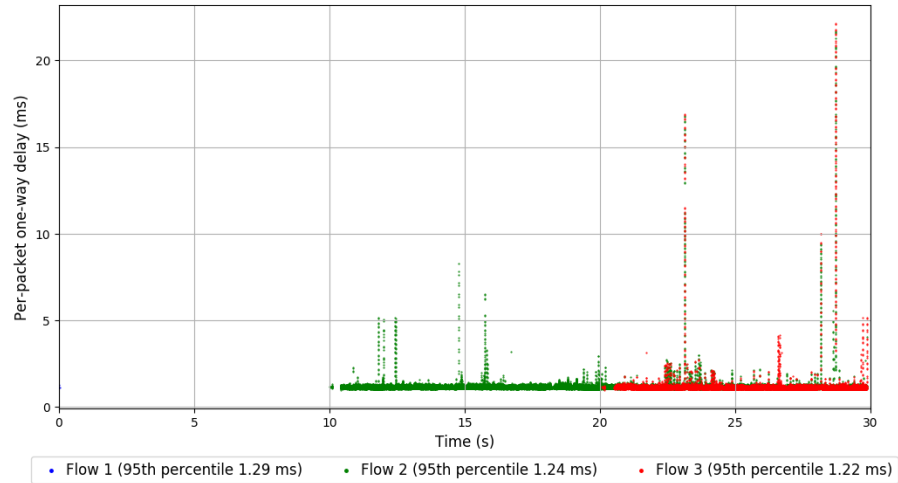
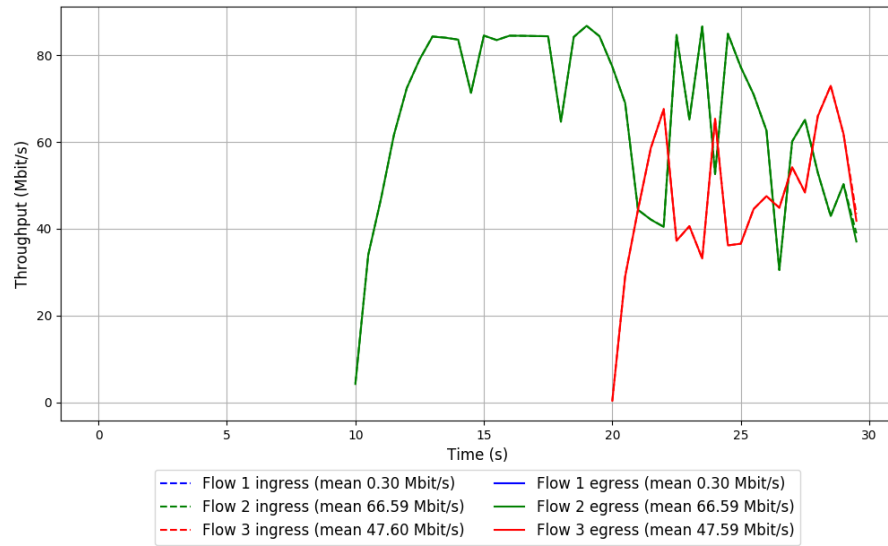
-- Flow 3:

Average throughput: 47.59 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.18%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: Tue, 01 Aug 2017 03:11:51 +0000

End at: Tue, 01 Aug 2017 03:12:21 +0000

Local clock offset: -0.005 ms

Remote clock offset: -1.242 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:11:44 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.97 Mbit/s

95th percentile per-packet one-way delay: 1.244 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 118.36 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 118.57 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.10%

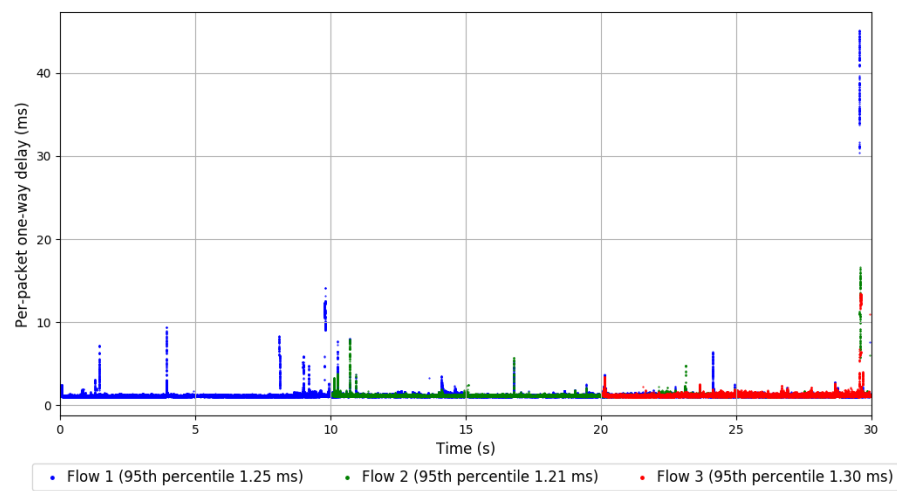
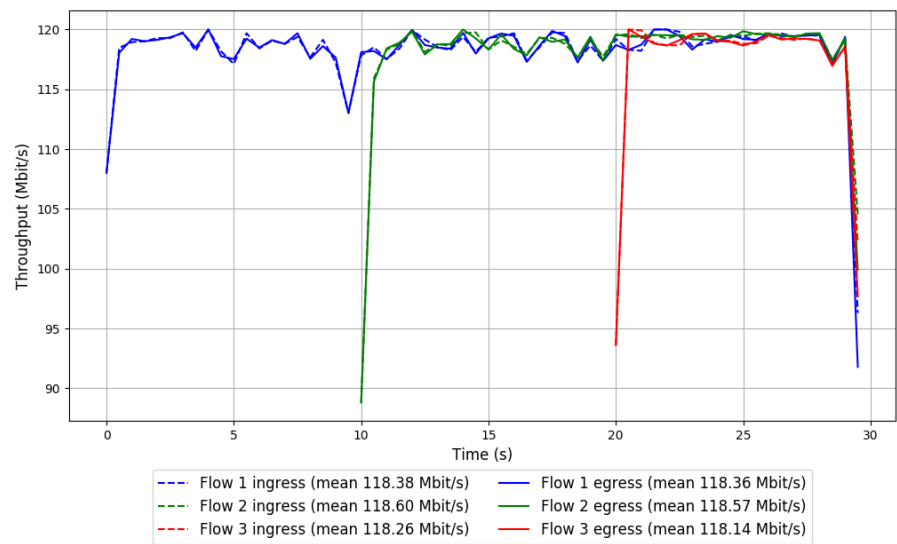
-- Flow 3:

Average throughput: 118.14 Mbit/s

95th percentile per-packet one-way delay: 1.298 ms

Loss rate: 0.20%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: Tue, 01 Aug 2017 03:34:18 +0000

End at: Tue, 01 Aug 2017 03:34:48 +0000

Local clock offset: -0.131 ms

Remote clock offset: -0.913 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:11:50 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.24 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 119.79 Mbit/s

95th percentile per-packet one-way delay: 1.272 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 119.93 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.10%

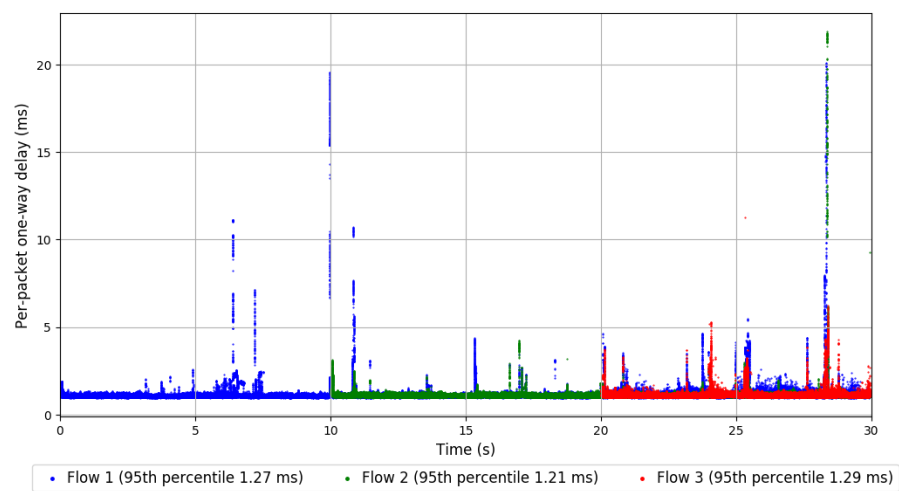
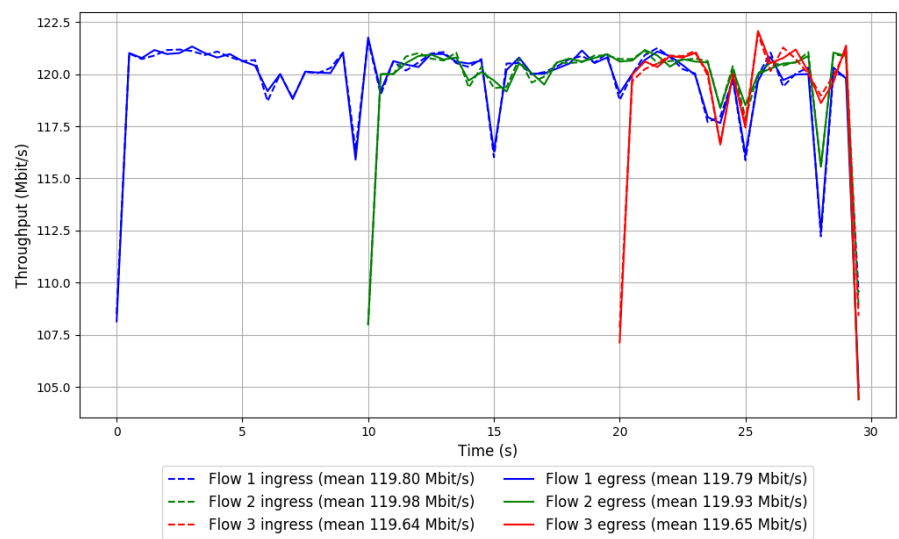
-- Flow 3:

Average throughput: 119.65 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.19%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: Tue, 01 Aug 2017 03:56:50 +0000

End at: Tue, 01 Aug 2017 03:57:20 +0000

Local clock offset: -0.137 ms

Remote clock offset: -0.881 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:12:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.18 Mbit/s

95th percentile per-packet one-way delay: 1.228 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 119.59 Mbit/s

95th percentile per-packet one-way delay: 1.321 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 119.29 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.10%

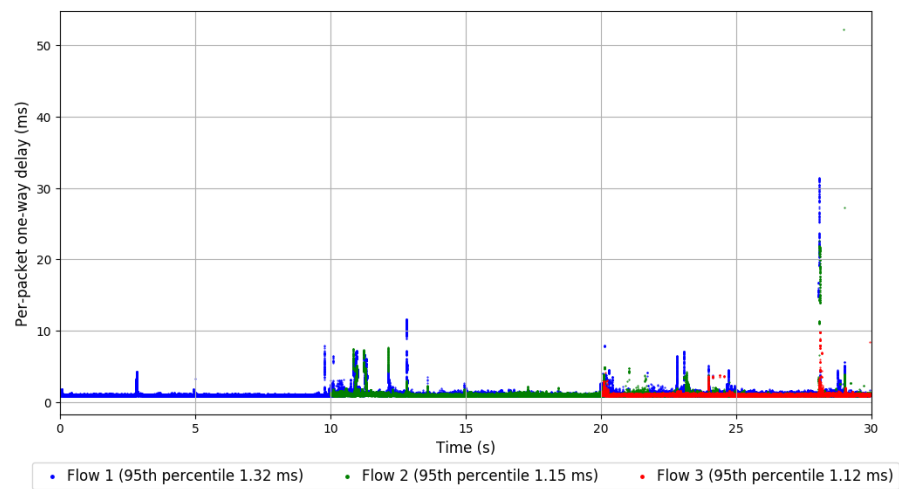
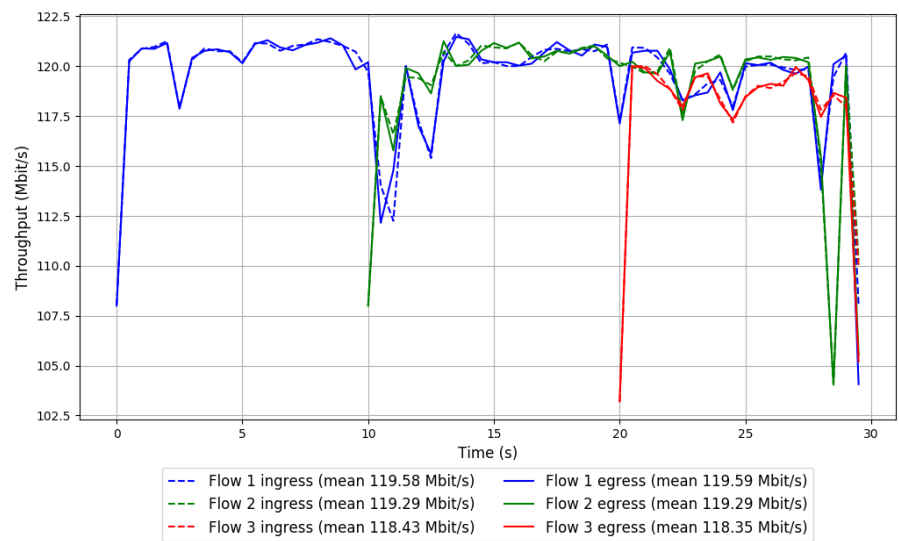
-- Flow 3:

Average throughput: 118.35 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.20%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: Tue, 01 Aug 2017 04:19:39 +0000

End at: Tue, 01 Aug 2017 04:20:09 +0000

Local clock offset: -0.102 ms

Remote clock offset: -1.165 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:12:21 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.05 Mbit/s

95th percentile per-packet one-way delay: 1.468 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 119.69 Mbit/s

95th percentile per-packet one-way delay: 1.599 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 120.02 Mbit/s

95th percentile per-packet one-way delay: 1.336 ms

Loss rate: 0.09%

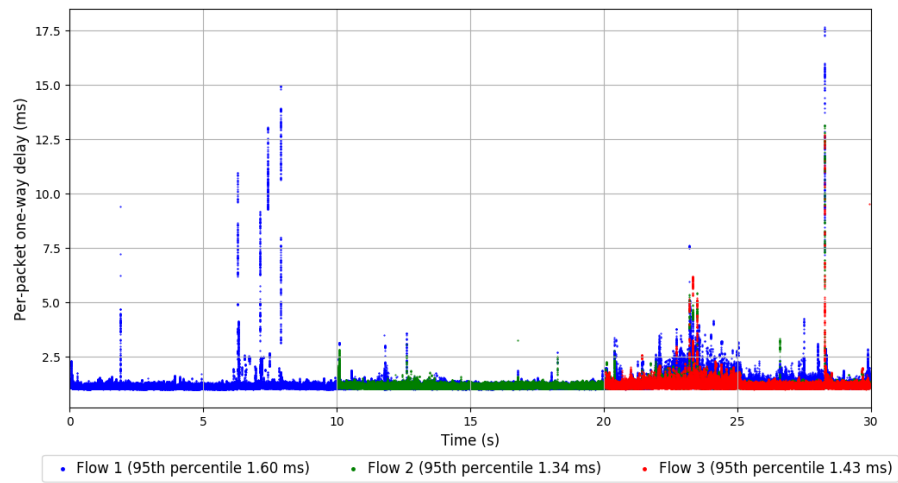
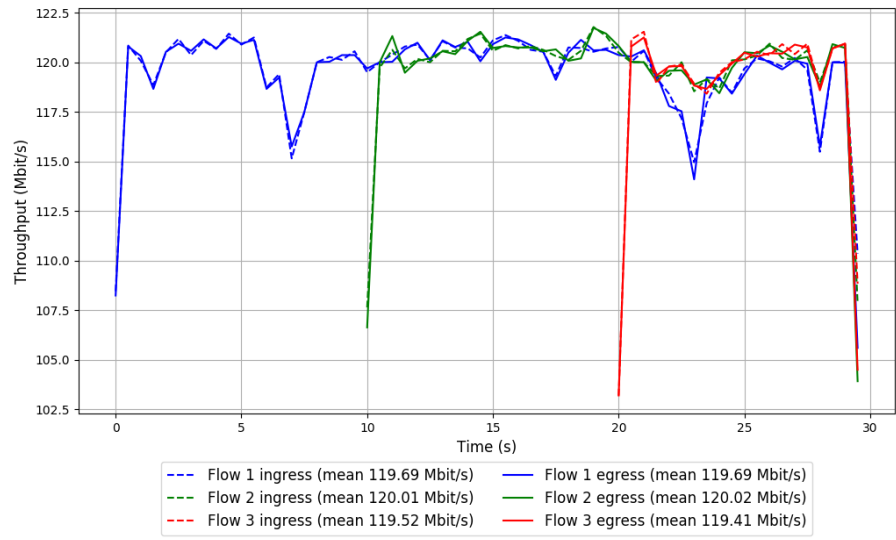
-- Flow 3:

Average throughput: 119.41 Mbit/s

95th percentile per-packet one-way delay: 1.434 ms

Loss rate: 0.20%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: Tue, 01 Aug 2017 04:42:10 +0000

End at: Tue, 01 Aug 2017 04:42:40 +0000

Local clock offset: -0.206 ms

Remote clock offset: -0.936 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:12:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.34 Mbit/s

95th percentile per-packet one-way delay: 1.418 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 119.48 Mbit/s

95th percentile per-packet one-way delay: 1.463 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 118.61 Mbit/s

95th percentile per-packet one-way delay: 1.311 ms

Loss rate: 0.10%

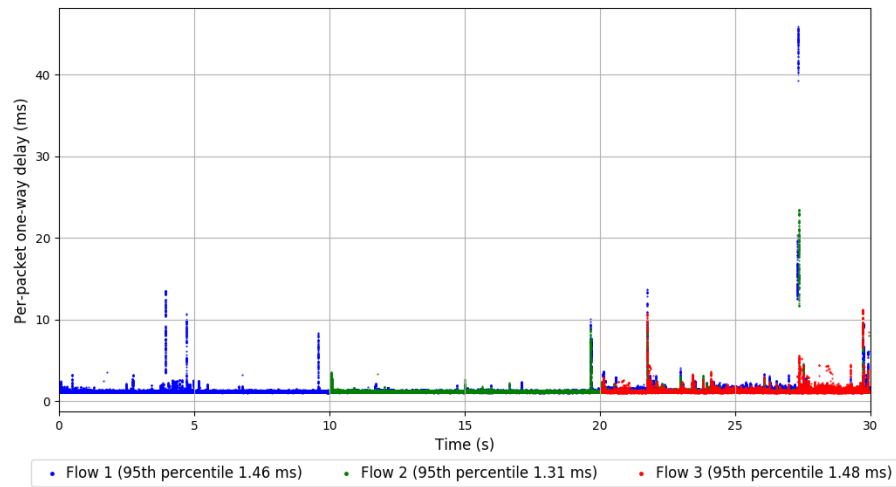
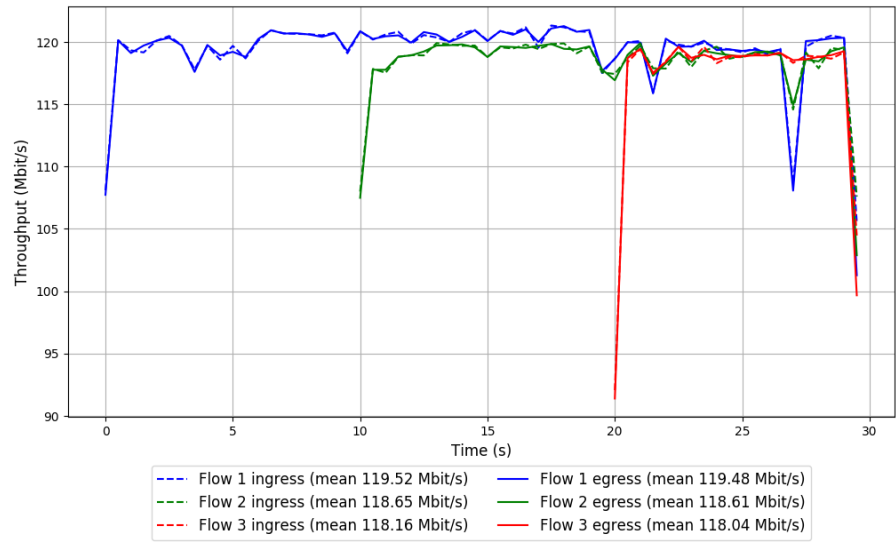
-- Flow 3:

Average throughput: 118.04 Mbit/s

95th percentile per-packet one-way delay: 1.477 ms

Loss rate: 0.20%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: Tue, 01 Aug 2017 05:04:41 +0000

End at: Tue, 01 Aug 2017 05:05:11 +0000

Local clock offset: -0.226 ms

Remote clock offset: -1.223 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:12:51 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.69 Mbit/s

95th percentile per-packet one-way delay: 1.453 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 118.27 Mbit/s

95th percentile per-packet one-way delay: 1.401 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 119.87 Mbit/s

95th percentile per-packet one-way delay: 1.332 ms

Loss rate: 0.10%

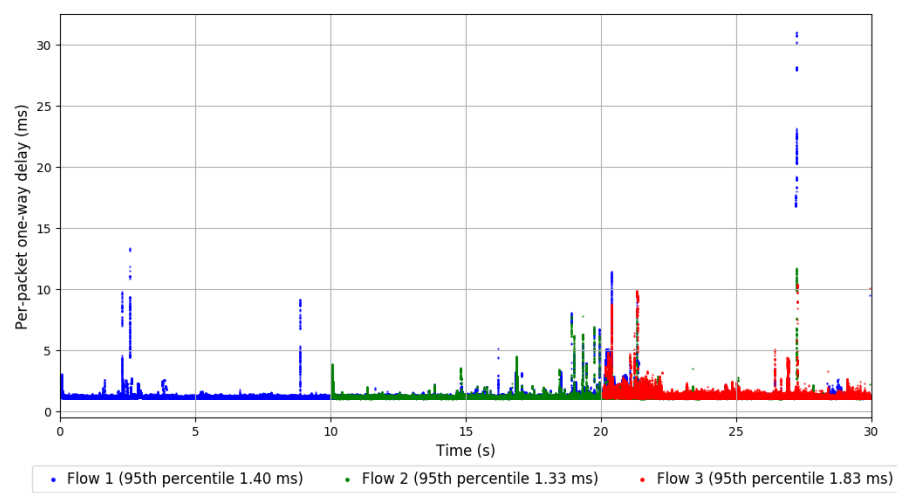
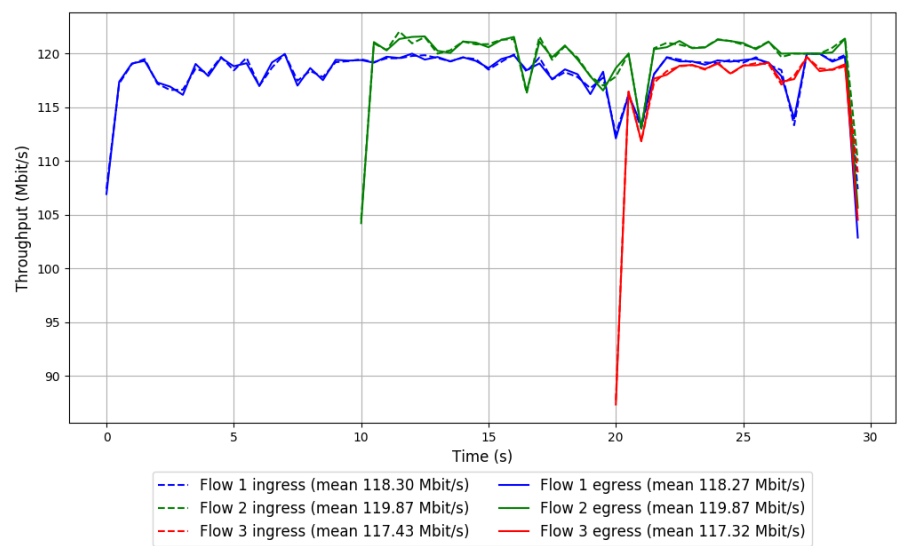
-- Flow 3:

Average throughput: 117.32 Mbit/s

95th percentile per-packet one-way delay: 1.827 ms

Loss rate: 0.20%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Tue, 01 Aug 2017 05:27:13 +0000

End at: Tue, 01 Aug 2017 05:27:43 +0000

Local clock offset: -0.308 ms

Remote clock offset: -0.968 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.40 Mbit/s

95th percentile per-packet one-way delay: 1.543 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 118.53 Mbit/s

95th percentile per-packet one-way delay: 1.347 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 119.19 Mbit/s

95th percentile per-packet one-way delay: 1.705 ms

Loss rate: 0.10%

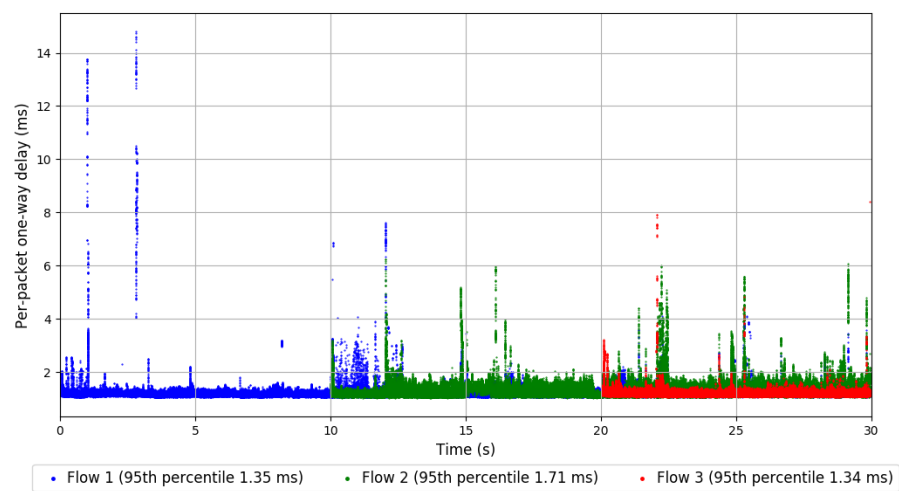
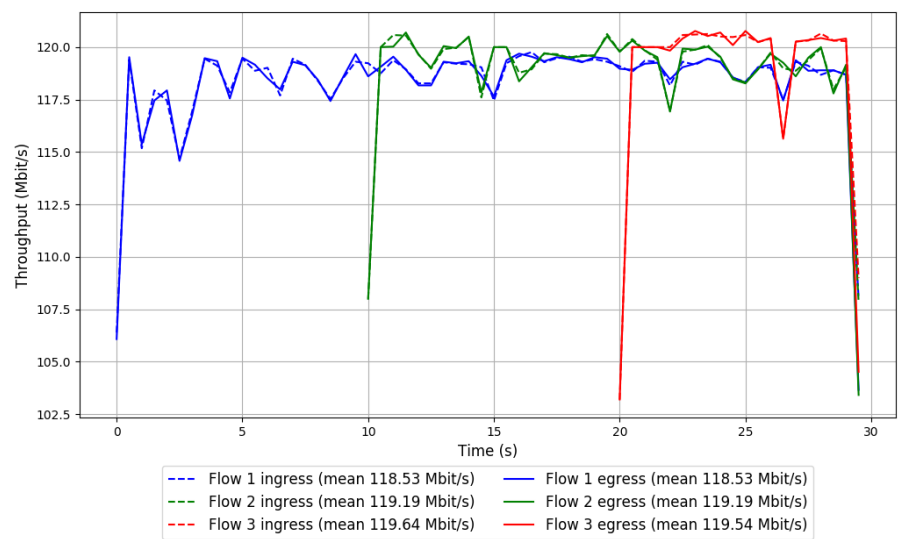
-- Flow 3:

Average throughput: 119.54 Mbit/s

95th percentile per-packet one-way delay: 1.337 ms

Loss rate: 0.20%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: Tue, 01 Aug 2017 05:49:38 +0000

End at: Tue, 01 Aug 2017 05:50:08 +0000

Local clock offset: -0.075 ms

Remote clock offset: -0.523 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.94 Mbit/s

95th percentile per-packet one-way delay: 1.345 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 119.99 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 117.98 Mbit/s

95th percentile per-packet one-way delay: 1.534 ms

Loss rate: 0.10%

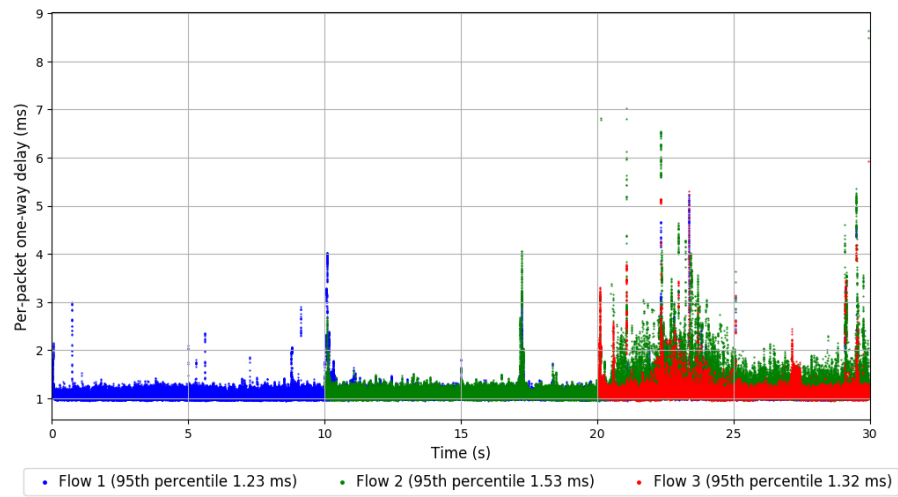
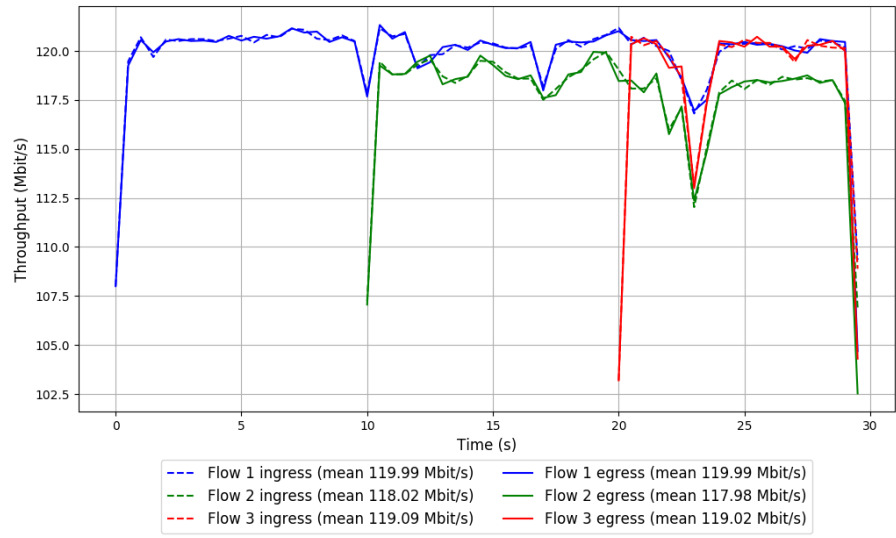
-- Flow 3:

Average throughput: 119.02 Mbit/s

95th percentile per-packet one-way delay: 1.322 ms

Loss rate: 0.20%

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: Tue, 01 Aug 2017 06:12:07 +0000

End at: Tue, 01 Aug 2017 06:12:37 +0000

Local clock offset: 0.383 ms

Remote clock offset: -0.333 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:40 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.14 Mbit/s

95th percentile per-packet one-way delay: 1.362 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 118.49 Mbit/s

95th percentile per-packet one-way delay: 1.463 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 120.21 Mbit/s

95th percentile per-packet one-way delay: 1.240 ms

Loss rate: 0.10%

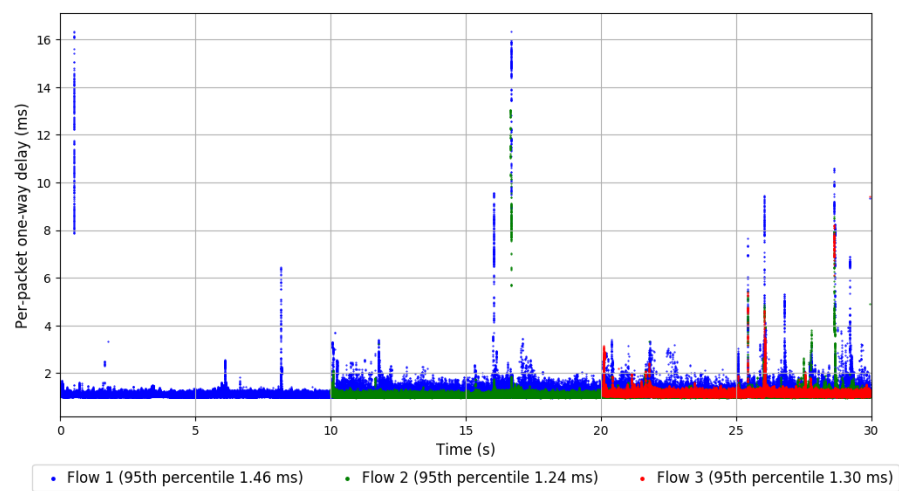
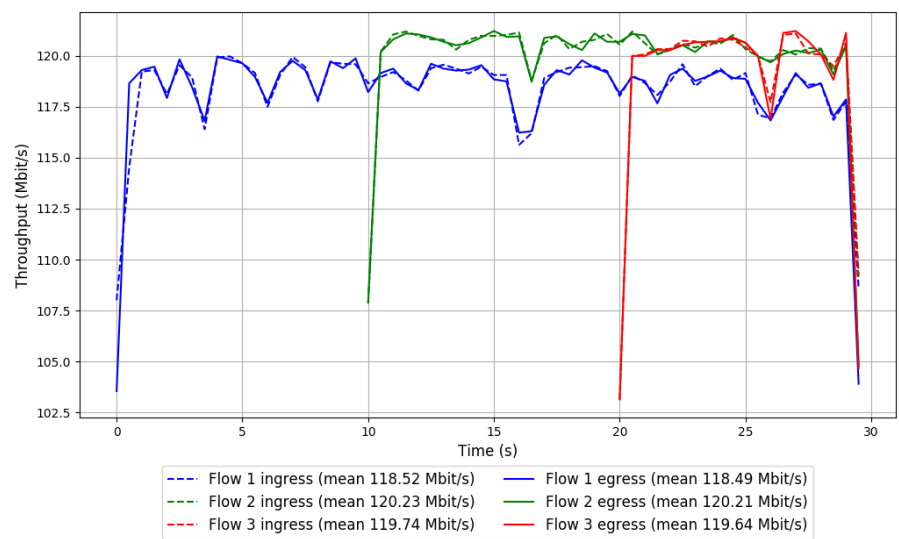
-- Flow 3:

Average throughput: 119.64 Mbit/s

95th percentile per-packet one-way delay: 1.297 ms

Loss rate: 0.20%

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

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

End at: Tue, 01 Aug 2017 06:35:15 +0000

Local clock offset: 0.541 ms

Remote clock offset: -0.214 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.33 Mbit/s

95th percentile per-packet one-way delay: 1.468 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 119.44 Mbit/s

95th percentile per-packet one-way delay: 1.547 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 118.60 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.10%

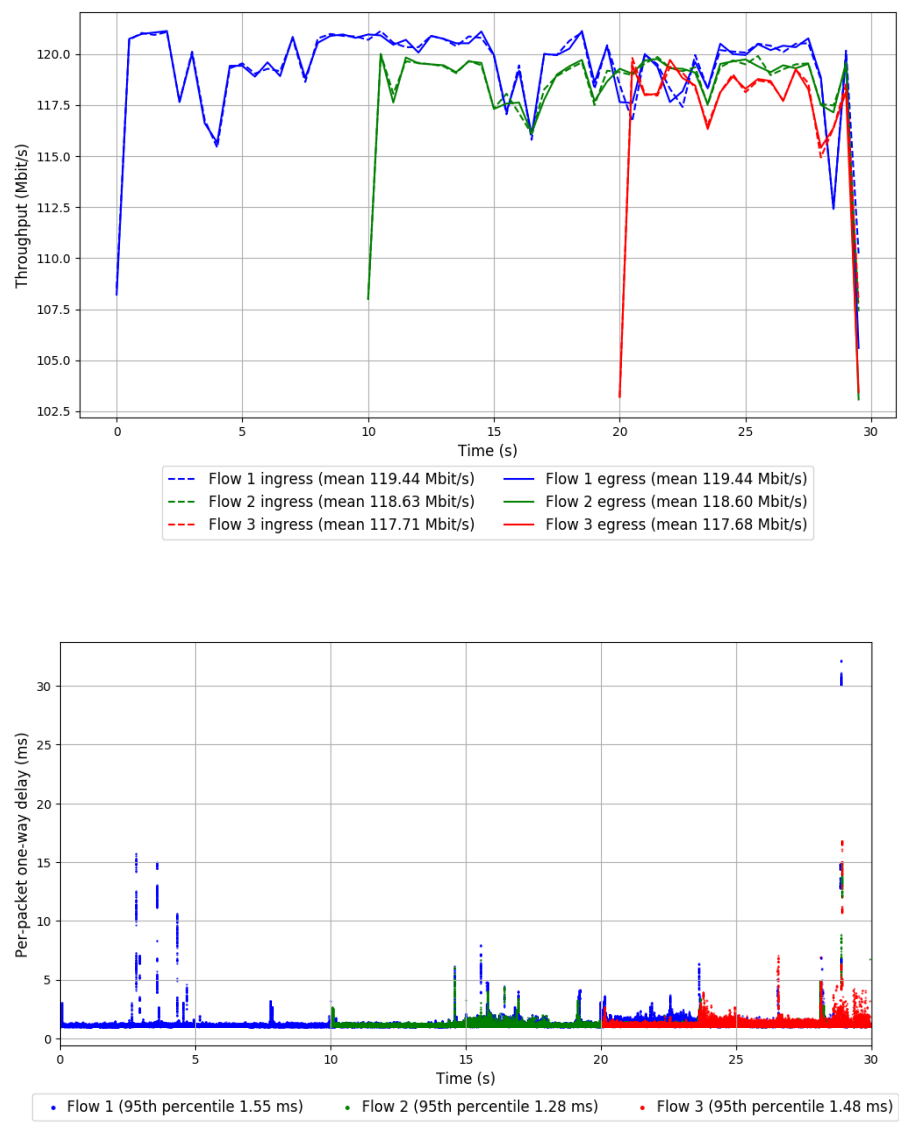
-- Flow 3:

Average throughput: 117.68 Mbit/s

95th percentile per-packet one-way delay: 1.480 ms

Loss rate: 0.20%

Run 10: Report of Saturator — Data Link



Run 1: Statistics of SReAM

Start at: Tue, 01 Aug 2017 03:20:43 +0000

End at: Tue, 01 Aug 2017 03:21:13 +0000

Local clock offset: -0.083 ms

Remote clock offset: -1.069 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.311 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.314 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.314 ms

Loss rate: 0.00%

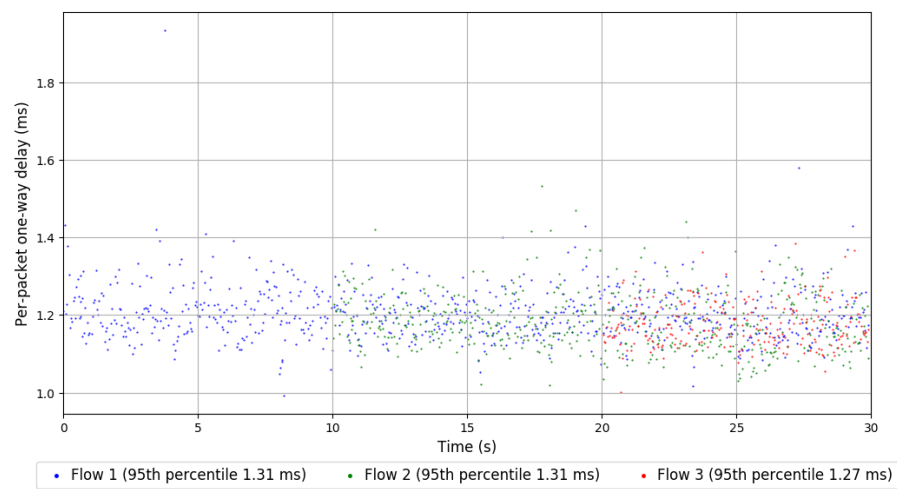
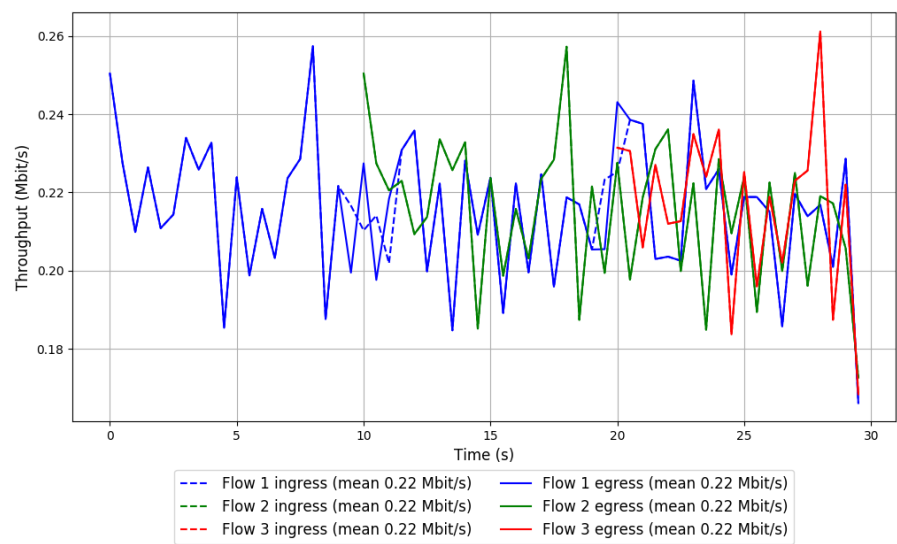
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: Tue, 01 Aug 2017 03:43:08 +0000

End at: Tue, 01 Aug 2017 03:43:38 +0000

Local clock offset: -0.138 ms

Remote clock offset: -0.972 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.00%

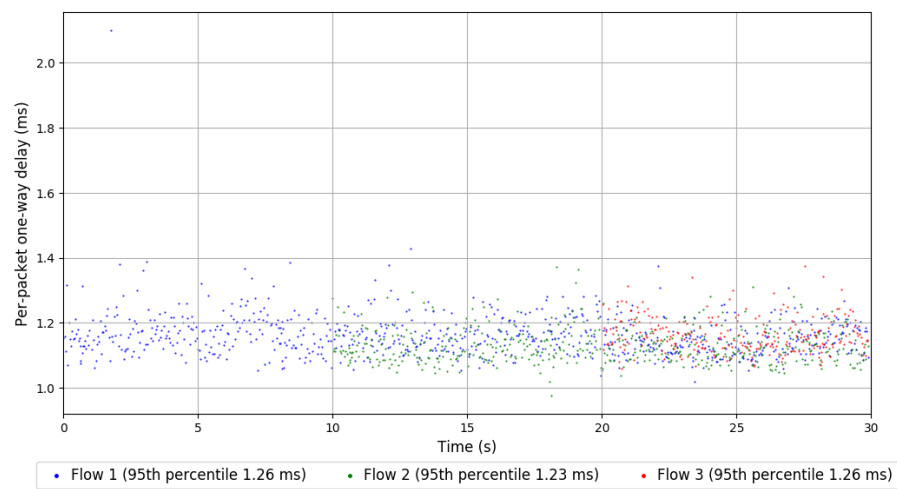
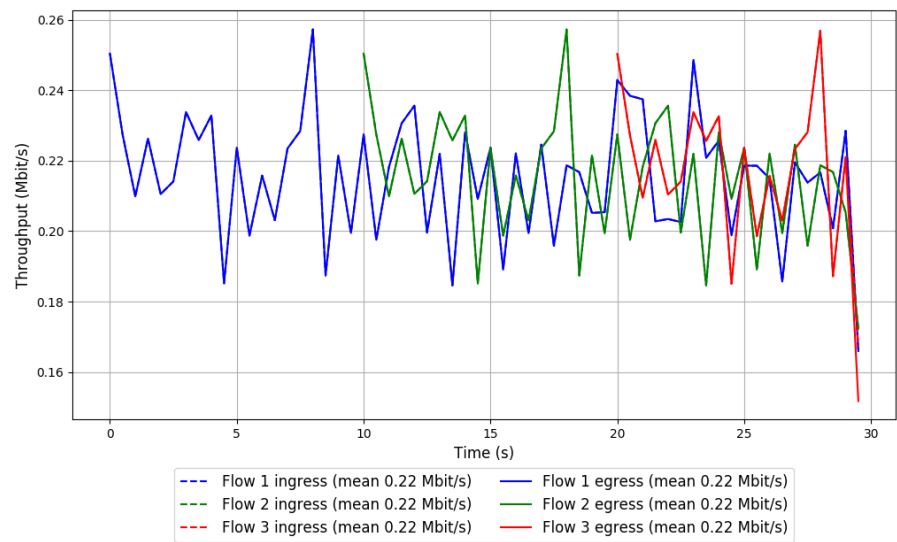
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: Tue, 01 Aug 2017 04:05:47 +0000

End at: Tue, 01 Aug 2017 04:06:17 +0000

Local clock offset: -0.083 ms

Remote clock offset: -1.13 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.343 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.345 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.305 ms

Loss rate: 0.00%

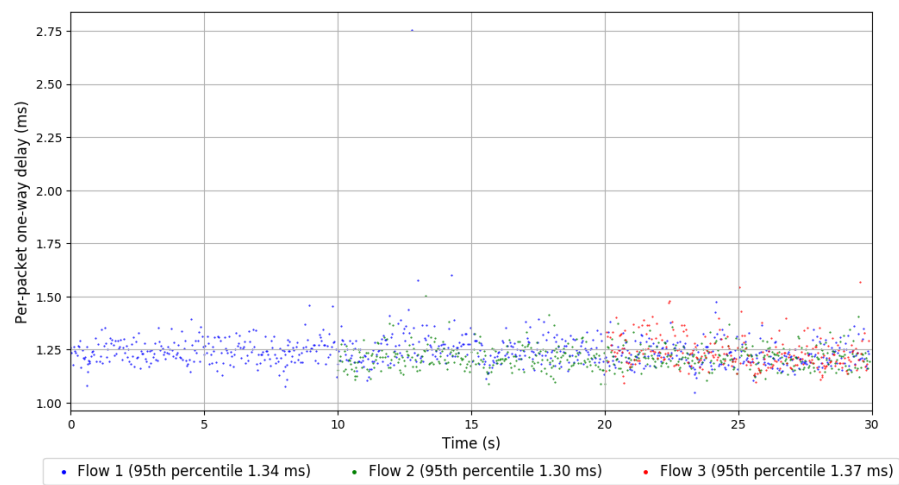
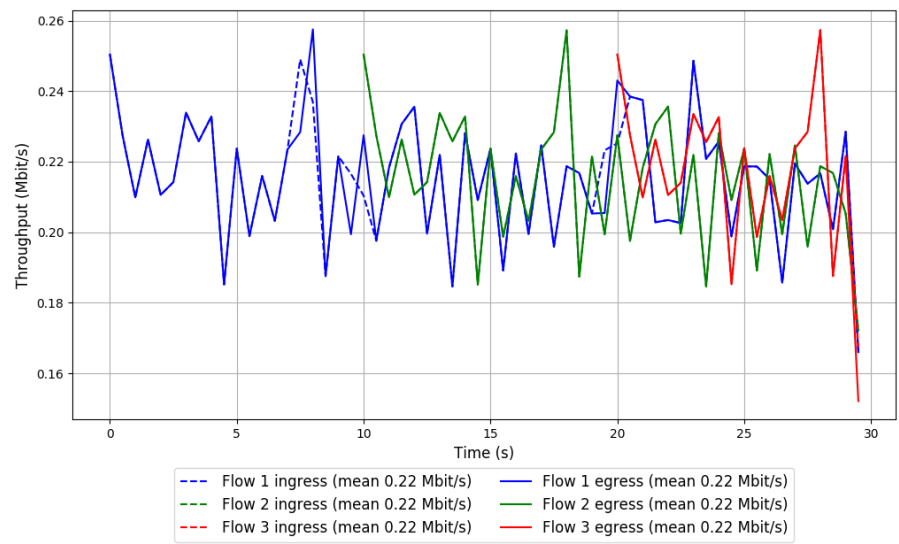
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.367 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: Tue, 01 Aug 2017 04:28:33 +0000

End at: Tue, 01 Aug 2017 04:29:03 +0000

Local clock offset: -0.19 ms

Remote clock offset: -1.167 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.316 ms

Loss rate: 0.00%

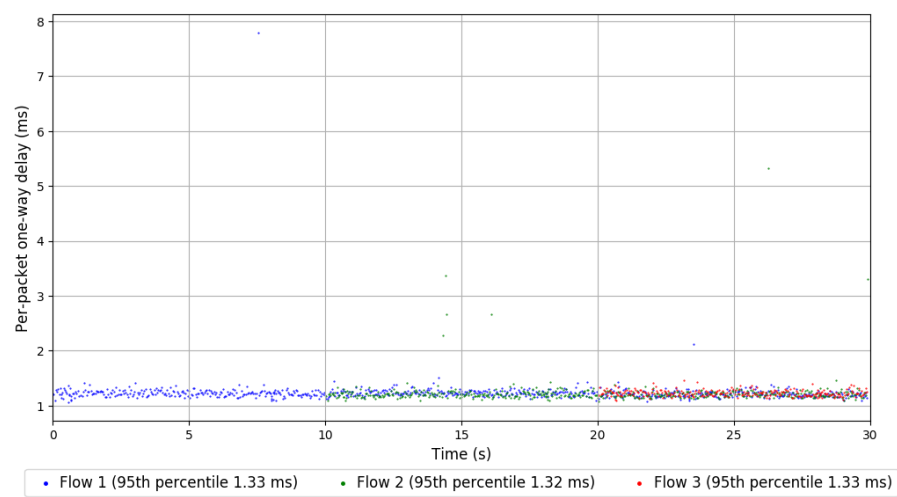
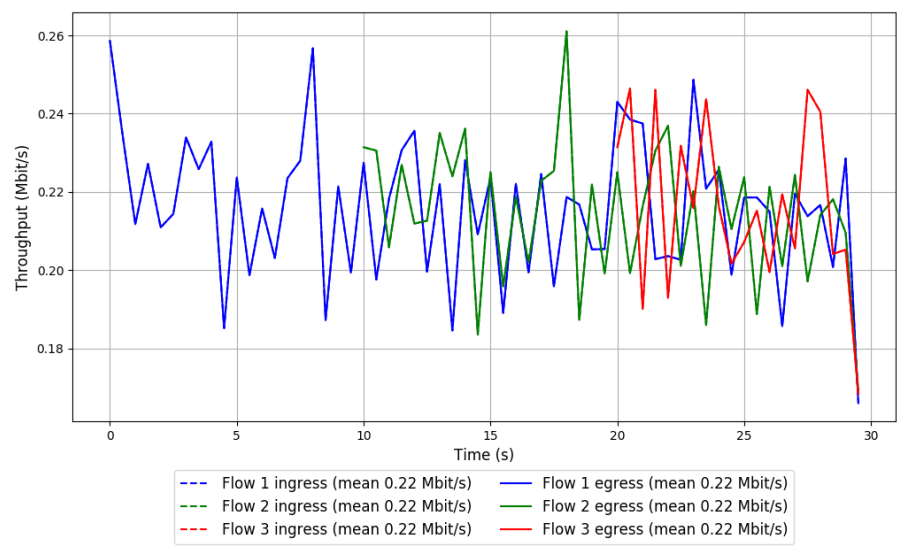
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.331 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: Tue, 01 Aug 2017 04:51:00 +0000

End at: Tue, 01 Aug 2017 04:51:30 +0000

Local clock offset: -0.279 ms

Remote clock offset: -1.06 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.297 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.303 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.00%

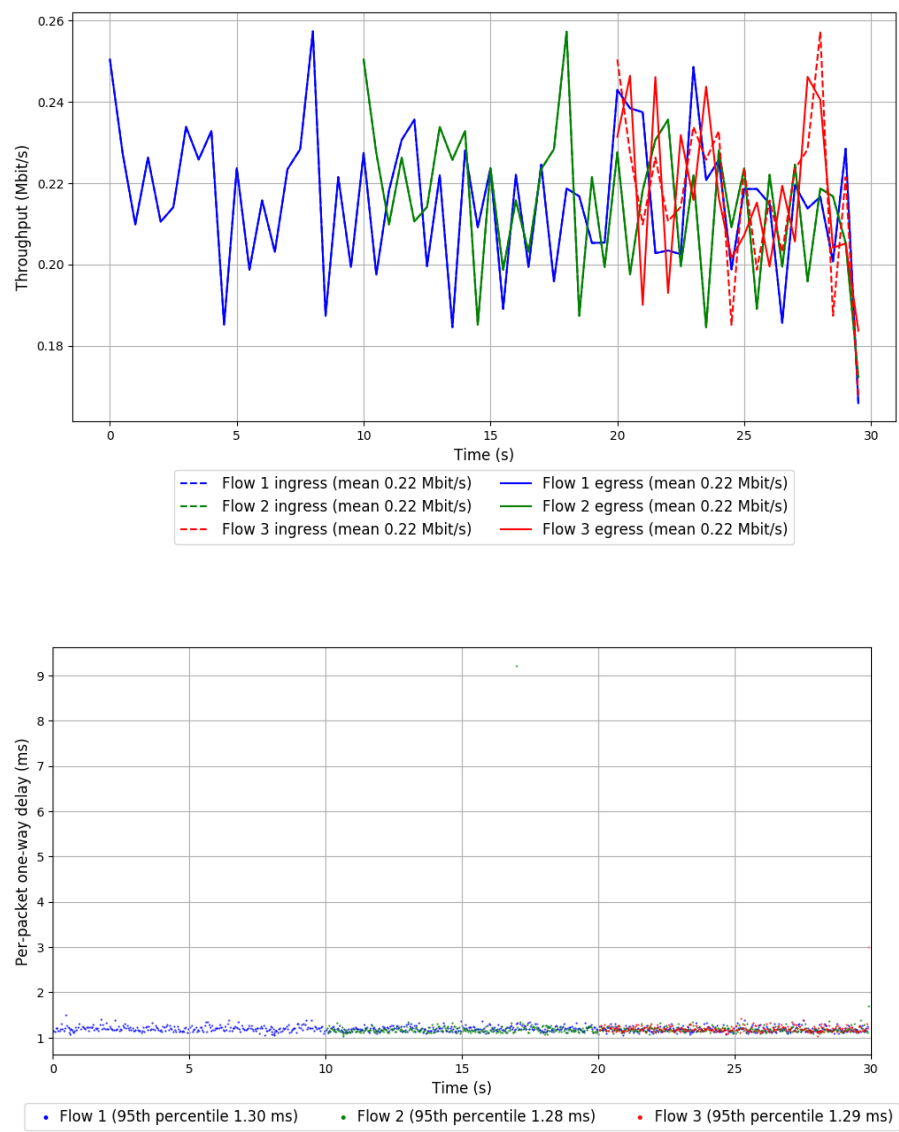
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: Tue, 01 Aug 2017 05:13:35 +0000

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

Local clock offset: -0.321 ms

Remote clock offset: -1.173 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.364 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.411 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.279 ms

Loss rate: 0.20%

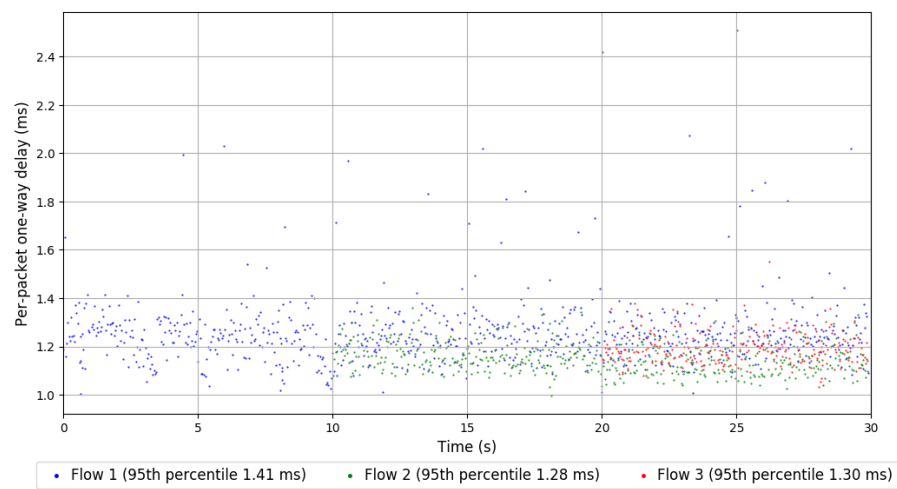
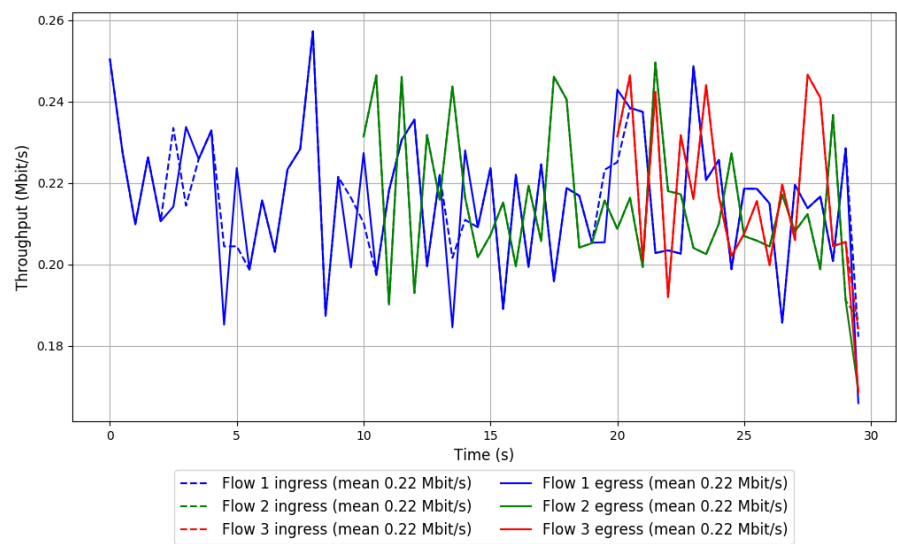
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.300 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

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

End at: Tue, 01 Aug 2017 05:36:31 +0000

Local clock offset: -0.228 ms

Remote clock offset: -0.723 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.262 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.261 ms

Loss rate: 0.00%

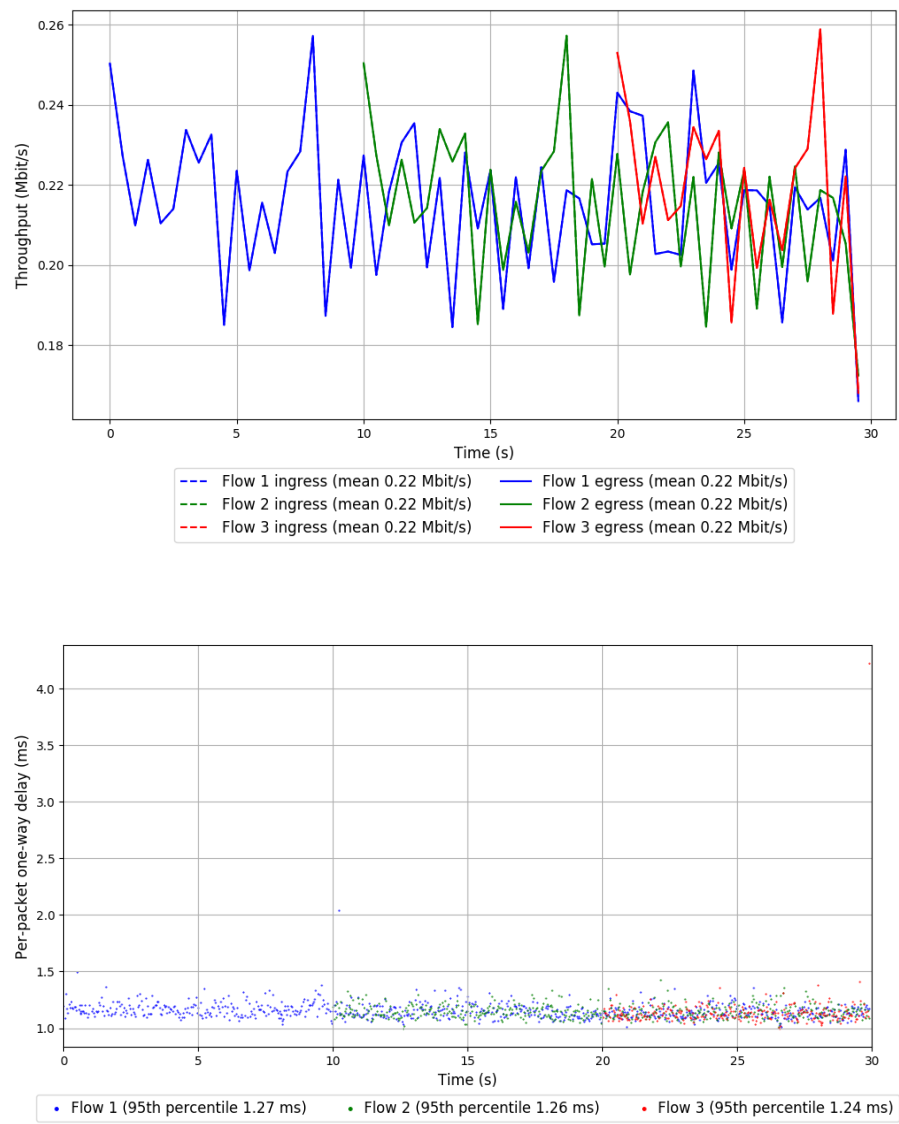
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

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

End at: Tue, 01 Aug 2017 05:59:02 +0000

Local clock offset: 0.089 ms

Remote clock offset: -0.295 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.183 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.00%

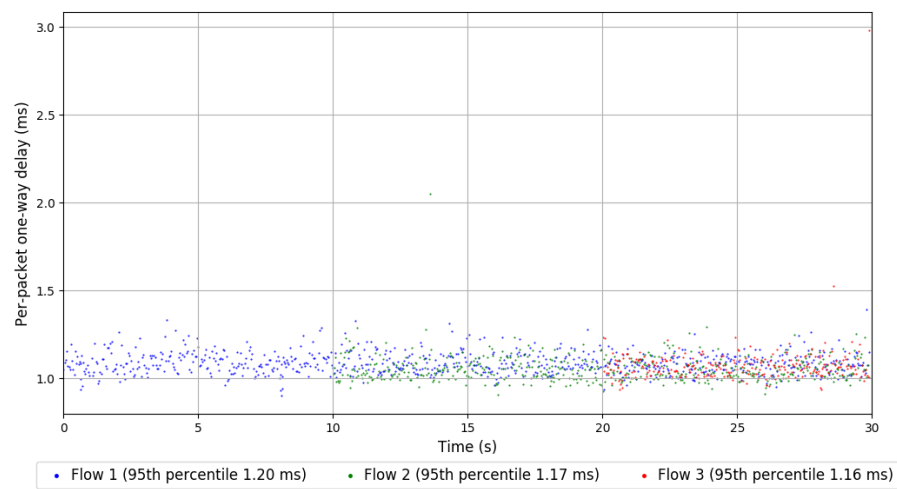
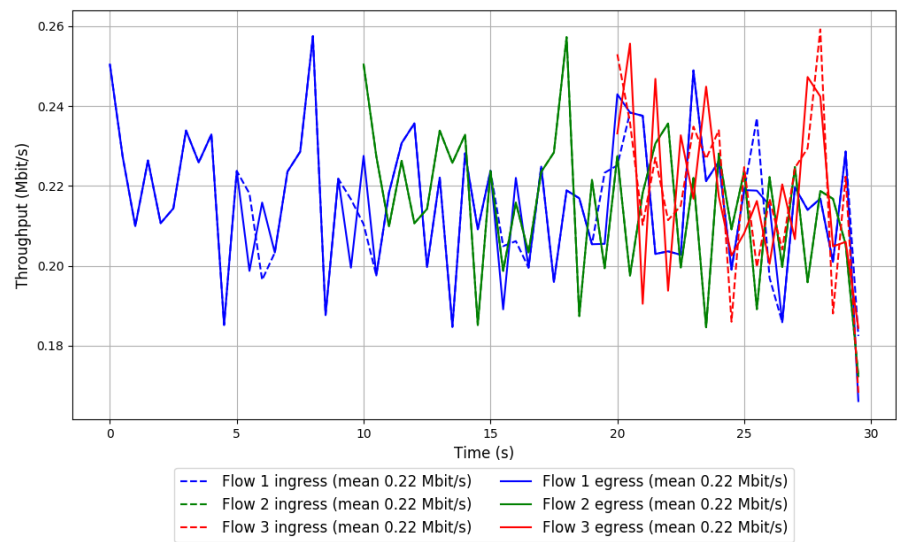
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

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

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

Local clock offset: 0.404 ms

Remote clock offset: -0.409 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.322 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.315 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.336 ms

Loss rate: 0.00%

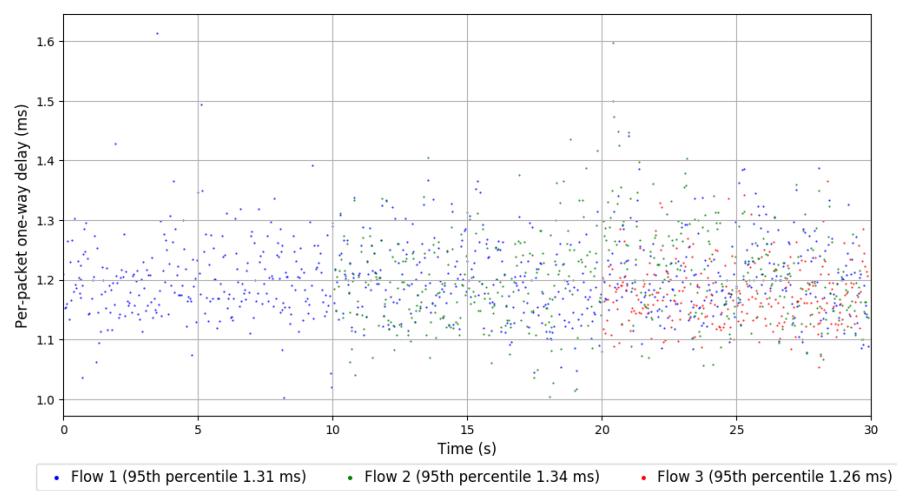
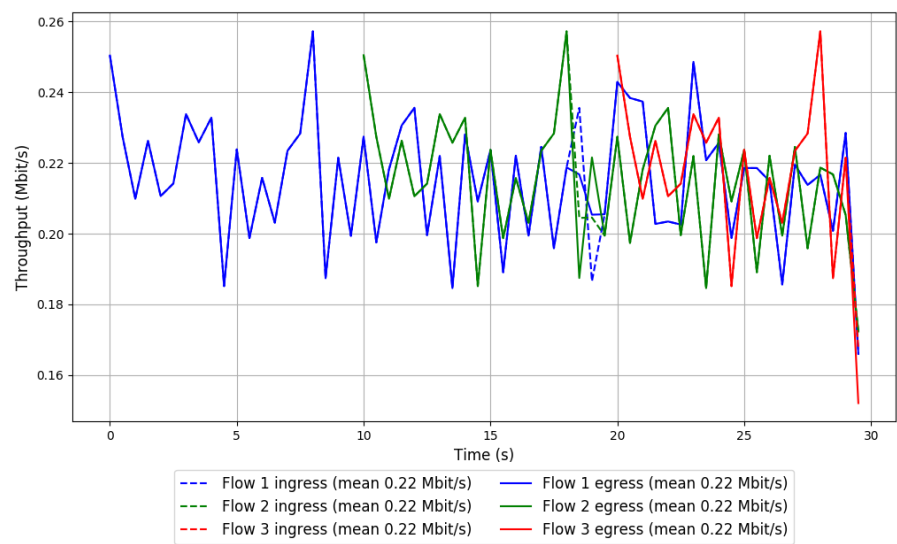
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.35%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: Tue, 01 Aug 2017 06:43:39 +0000

End at: Tue, 01 Aug 2017 06:44:09 +0000

Local clock offset: 0.709 ms

Remote clock offset: -0.065 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:13:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.375 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.380 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.418 ms

Loss rate: 0.00%

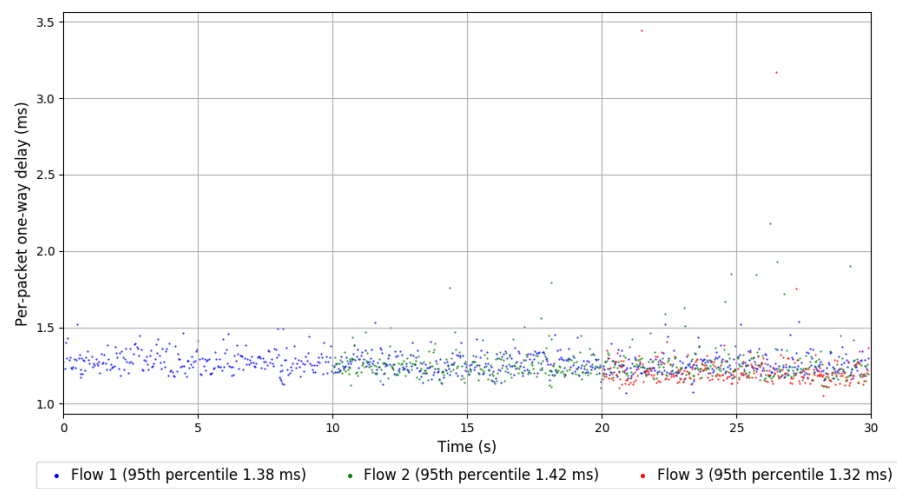
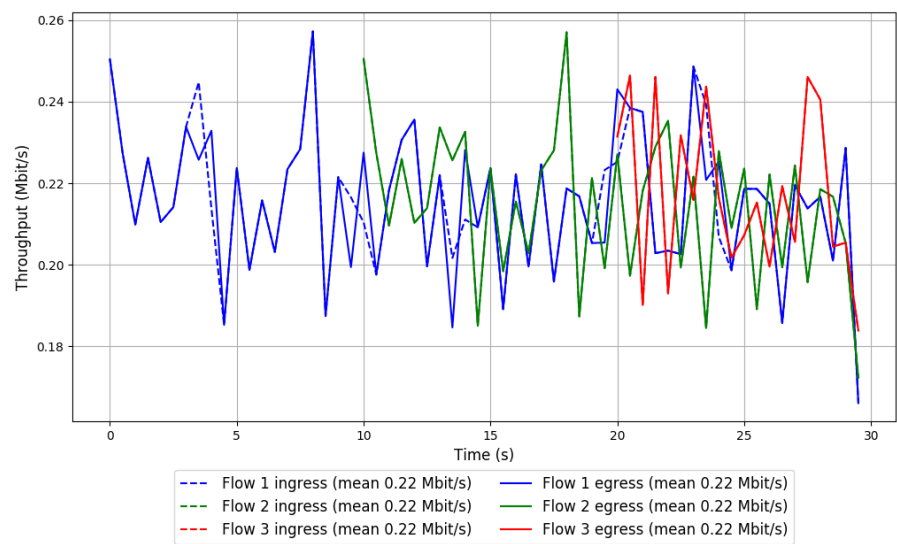
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.321 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: Tue, 01 Aug 2017 03:10:39 +0000

End at: Tue, 01 Aug 2017 03:11:09 +0000

Local clock offset: 0.099 ms

Remote clock offset: -1.214 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:01 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.39 Mbit/s

95th percentile per-packet one-way delay: 1.355 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 24.79 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 1.464 ms

Loss rate: 0.20%

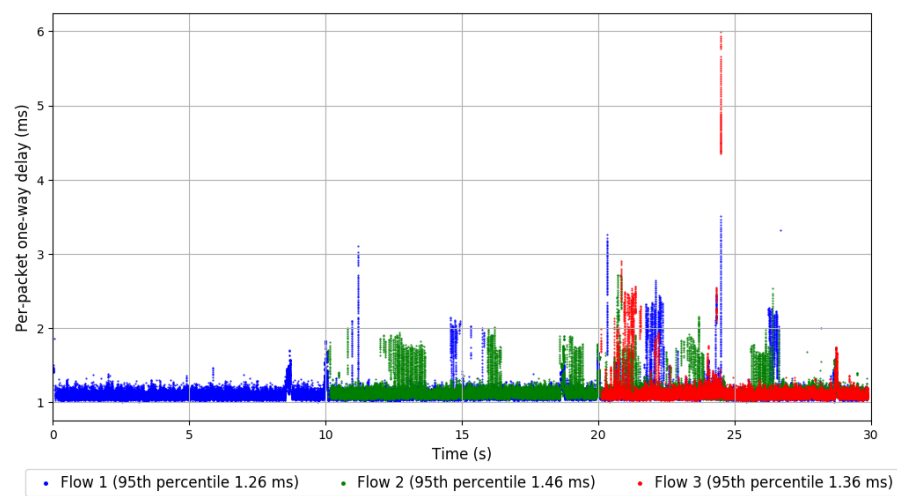
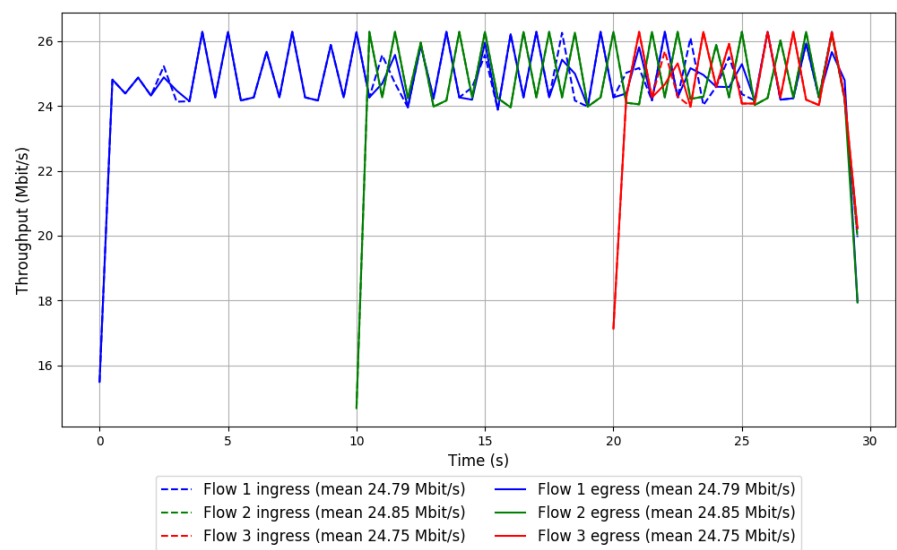
-- Flow 3:

Average throughput: 24.75 Mbit/s

95th percentile per-packet one-way delay: 1.362 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: Tue, 01 Aug 2017 03:33:05 +0000

End at: Tue, 01 Aug 2017 03:33:35 +0000

Local clock offset: -0.13 ms

Remote clock offset: -0.873 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:04 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 24.29 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.11%

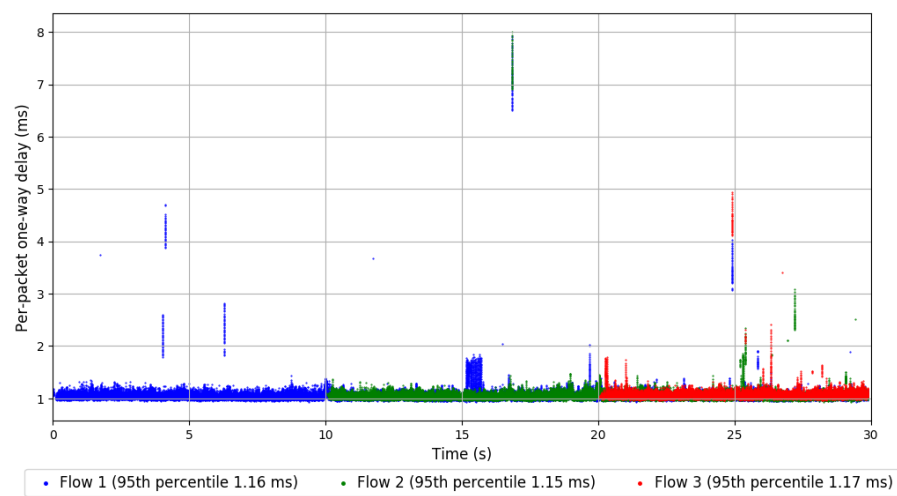
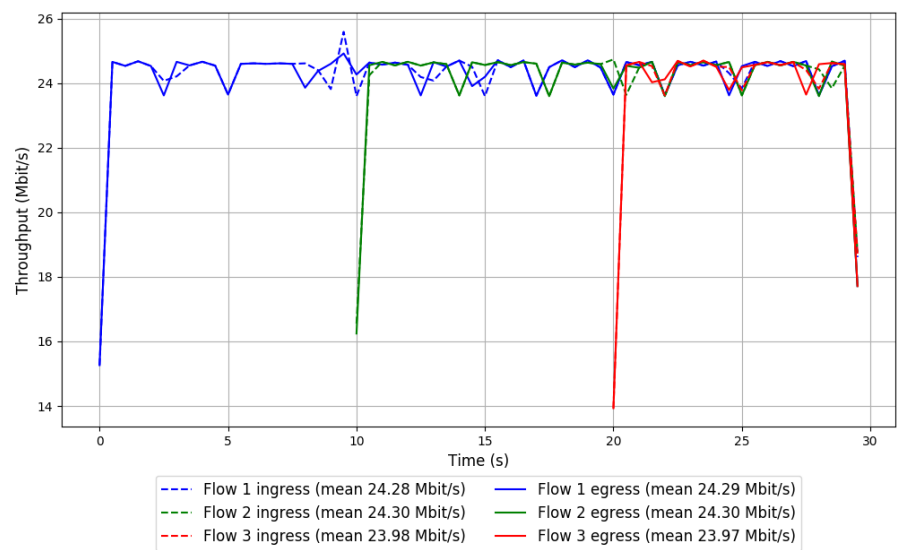
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.21%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: Tue, 01 Aug 2017 03:55:37 +0000

End at: Tue, 01 Aug 2017 03:56:07 +0000

Local clock offset: -0.092 ms

Remote clock offset: -0.969 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:09 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 1.251 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.10%

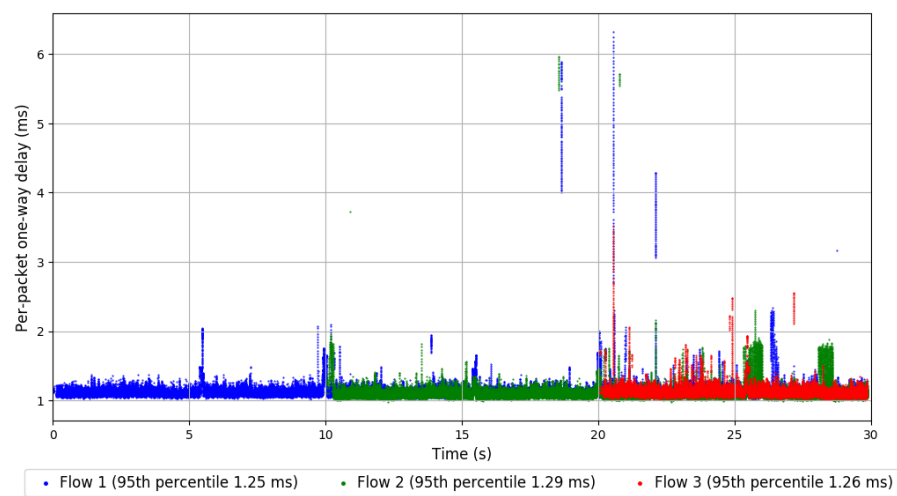
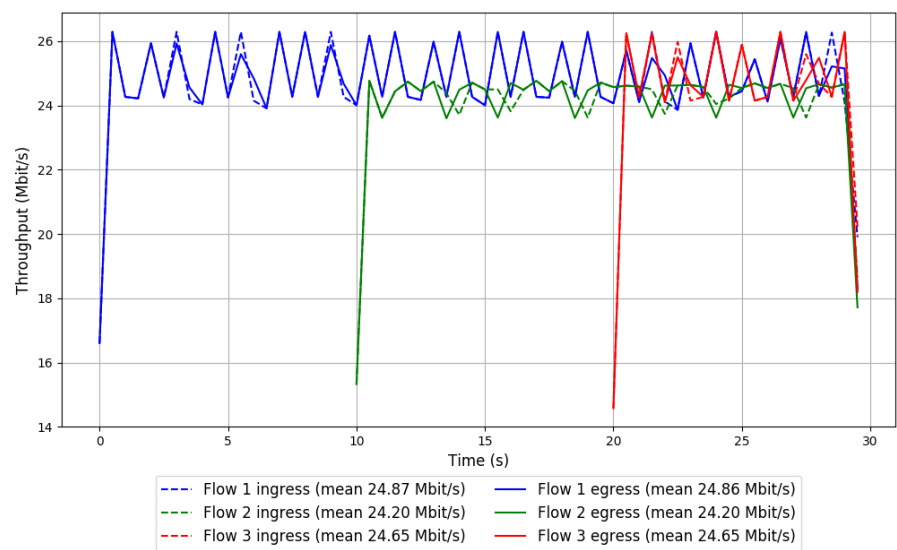
-- Flow 3:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.42%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: Tue, 01 Aug 2017 04:18:28 +0000

End at: Tue, 01 Aug 2017 04:18:58 +0000

Local clock offset: -0.163 ms

Remote clock offset: -1.151 ms

Run 4: Report of Sprout — Data Link

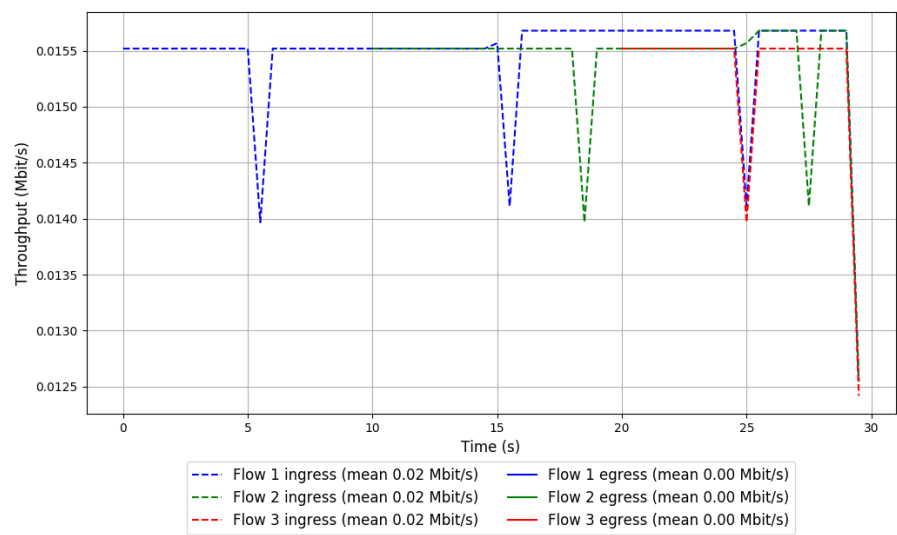


Figure is missing

Run 5: Statistics of Sprout

Start at: Tue, 01 Aug 2017 04:40:58 +0000

End at: Tue, 01 Aug 2017 04:41:28 +0000

Local clock offset: -0.294 ms

Remote clock offset: -0.897 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:12 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.02 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.10%

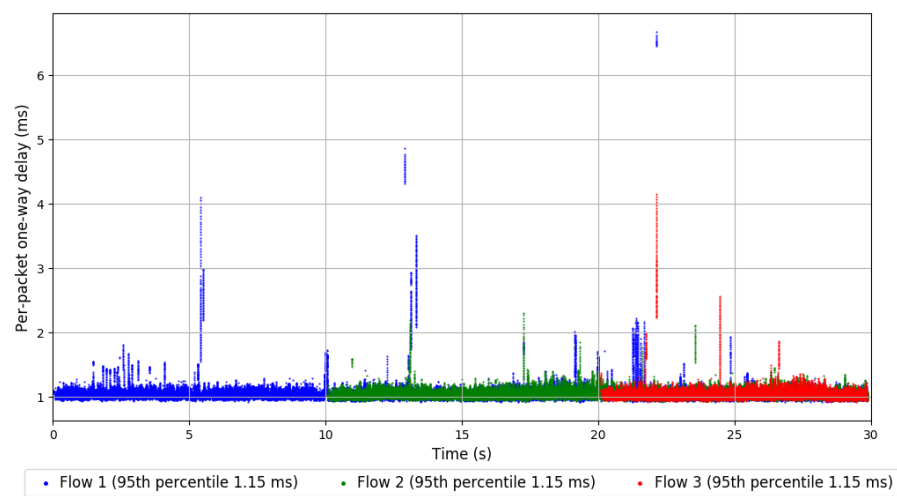
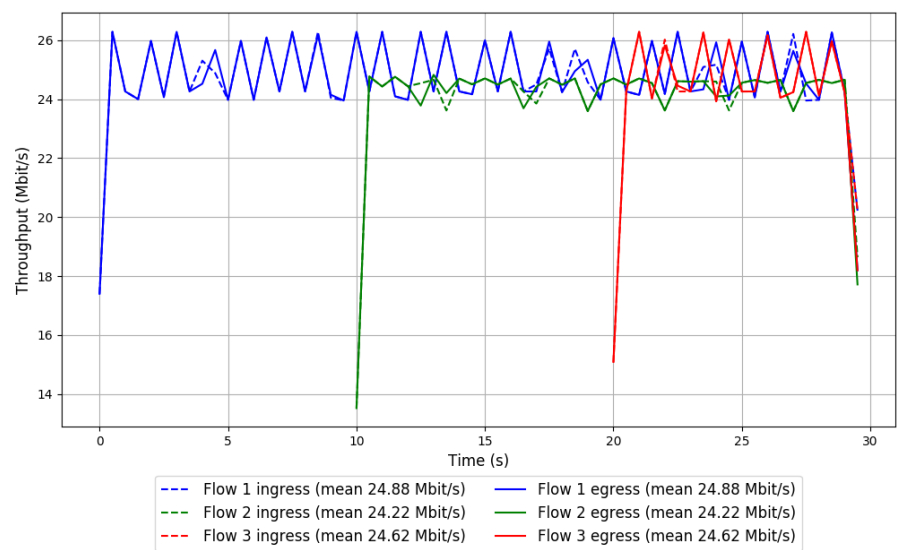
-- Flow 3:

Average throughput: 24.62 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.42%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: Tue, 01 Aug 2017 05:03:28 +0000

End at: Tue, 01 Aug 2017 05:03:58 +0000

Local clock offset: -0.234 ms

Remote clock offset: -1.136 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:17 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.25 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.10%

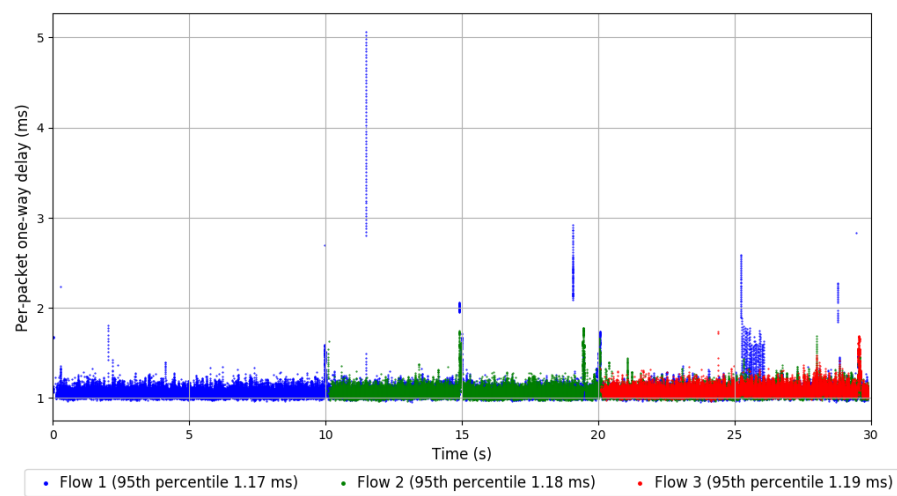
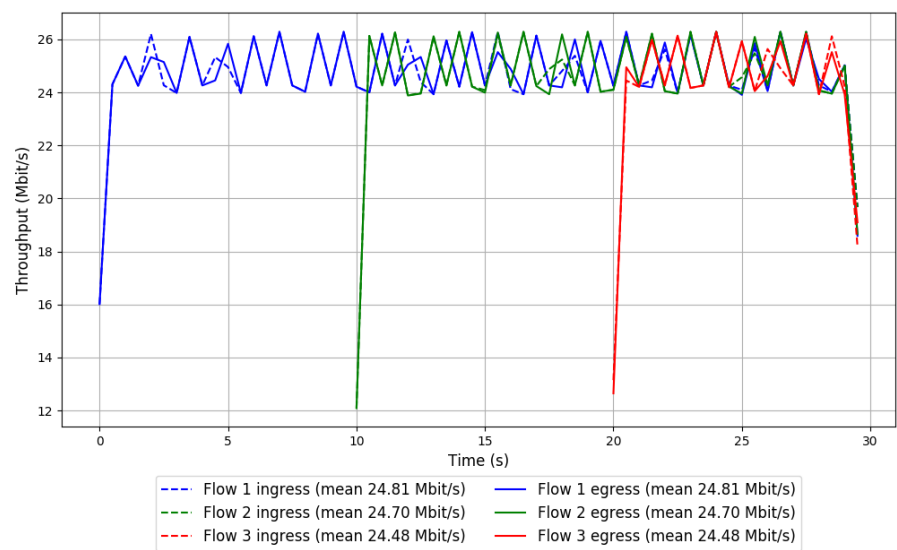
-- Flow 3:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

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

End at: Tue, 01 Aug 2017 05:26:31 +0000

Local clock offset: -0.275 ms

Remote clock offset: -0.978 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 1.332 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 24.82 Mbit/s

95th percentile per-packet one-way delay: 1.405 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 1.305 ms

Loss rate: 0.18%

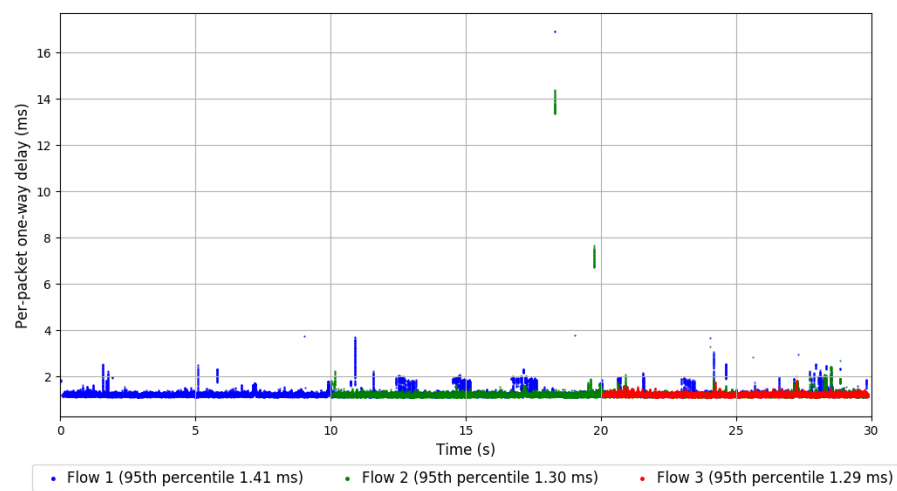
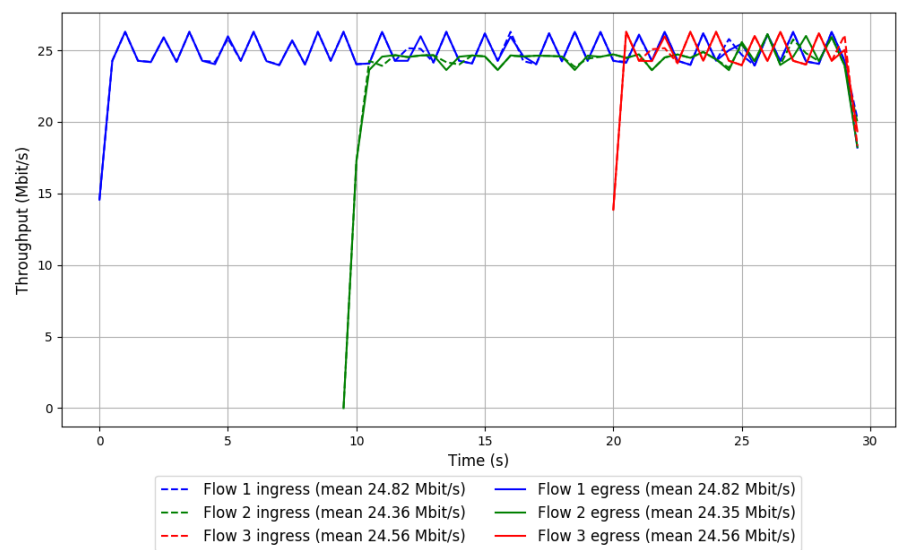
-- Flow 3:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: Tue, 01 Aug 2017 05:48:26 +0000

End at: Tue, 01 Aug 2017 05:48:56 +0000

Local clock offset: -0.098 ms

Remote clock offset: -0.472 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:23 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 24.46 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.20%

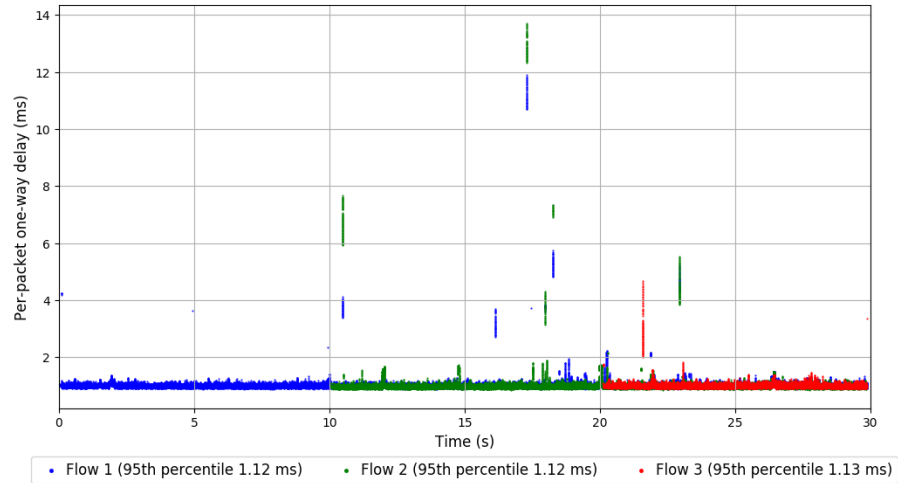
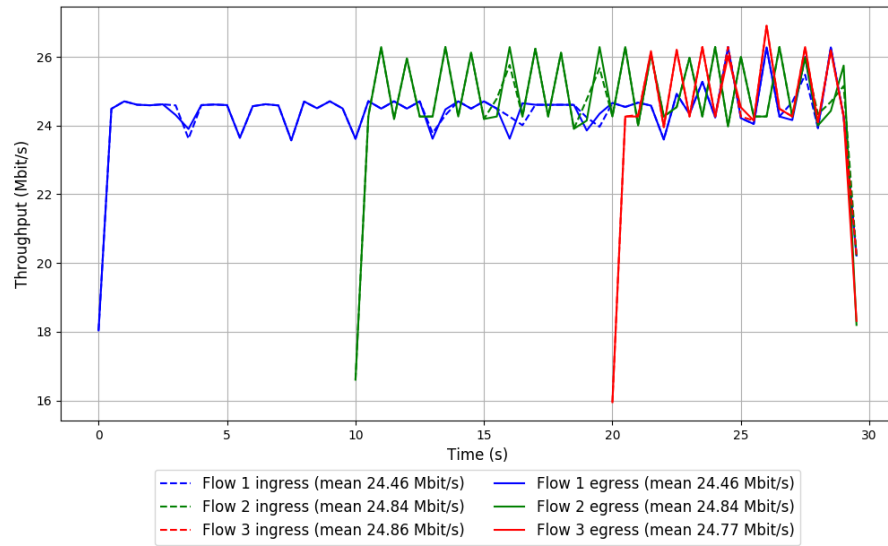
-- Flow 3:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.39%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: Tue, 01 Aug 2017 06:10:54 +0000

End at: Tue, 01 Aug 2017 06:11:24 +0000

Local clock offset: 0.269 ms

Remote clock offset: -0.307 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:26 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.20%

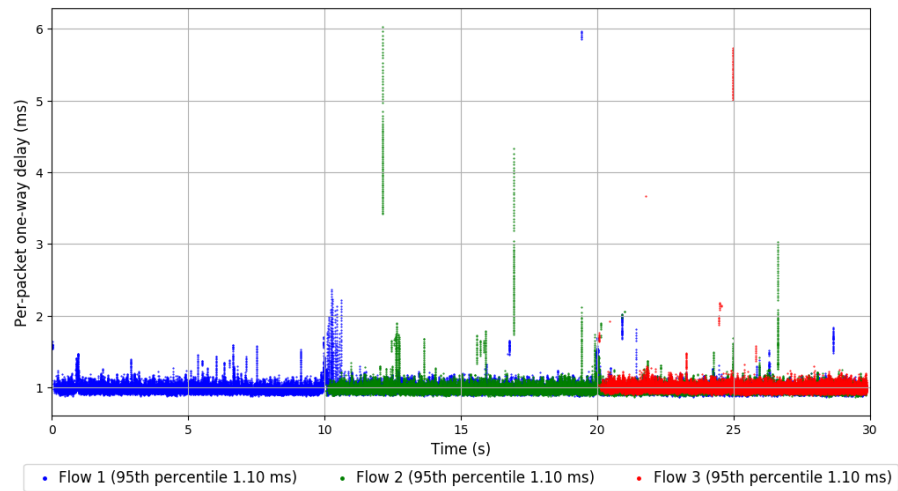
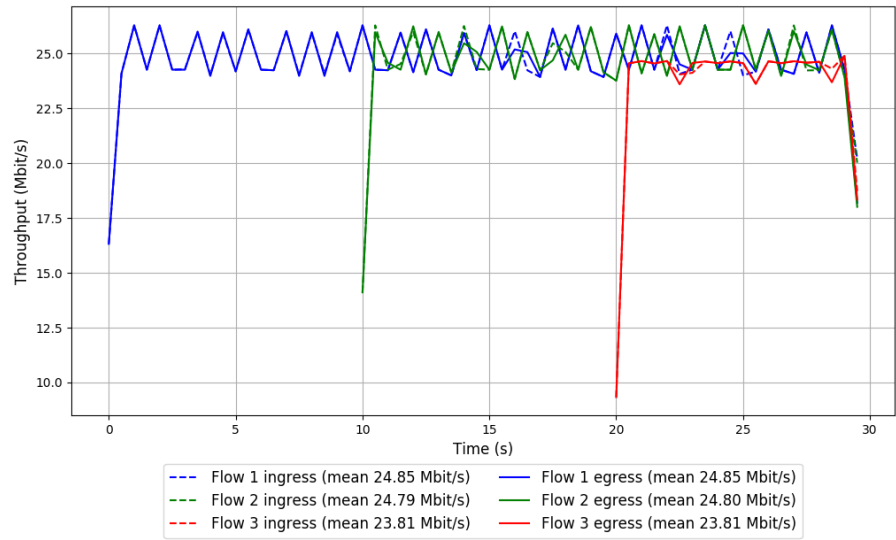
-- Flow 3:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.22%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: Tue, 01 Aug 2017 06:33:32 +0000

End at: Tue, 01 Aug 2017 06:34:02 +0000

Local clock offset: 0.599 ms

Remote clock offset: -0.145 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:14:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.33 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 0.20%

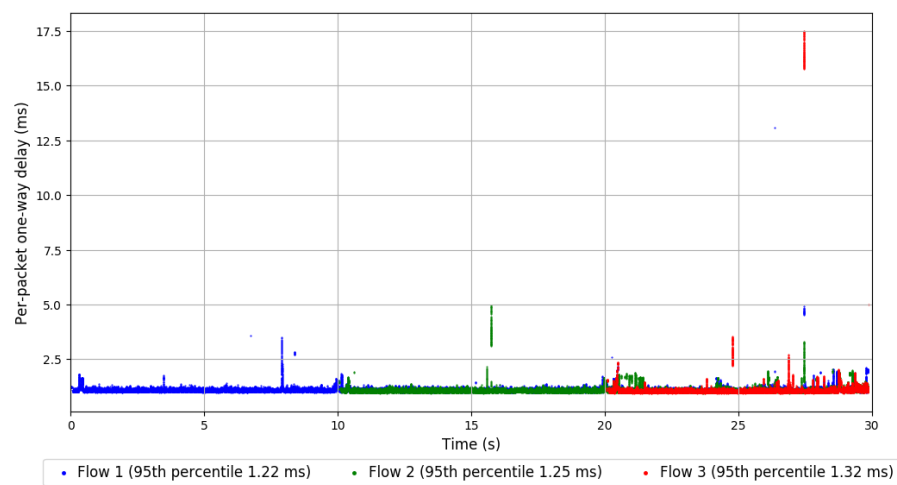
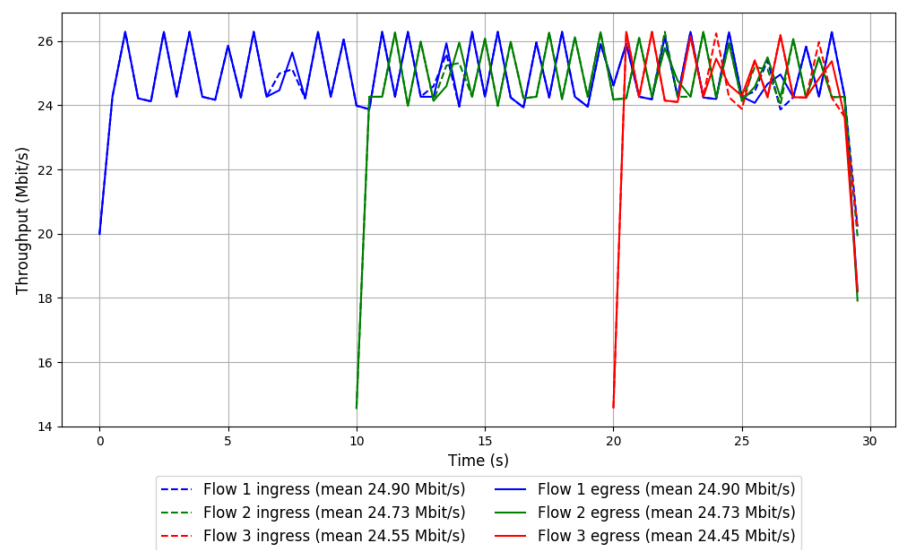
-- Flow 3:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 1.316 ms

Loss rate: 0.41%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 03:13:18 +0000

End at: Tue, 01 Aug 2017 03:13:48 +0000

Local clock offset: -0.008 ms

Remote clock offset: -1.243 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:15:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.01 Mbit/s

95th percentile per-packet one-way delay: 2.558 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 149.78 Mbit/s

95th percentile per-packet one-way delay: 1.403 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 108.72 Mbit/s

95th percentile per-packet one-way delay: 3.883 ms

Loss rate: 0.04%

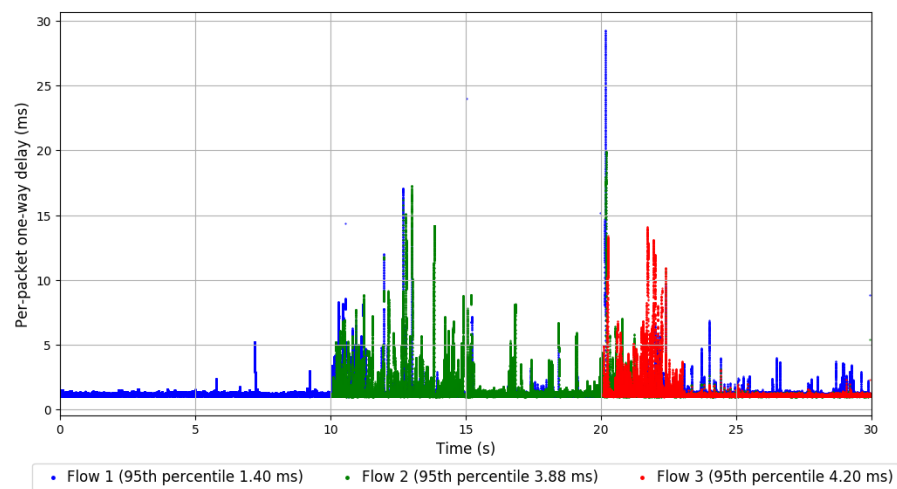
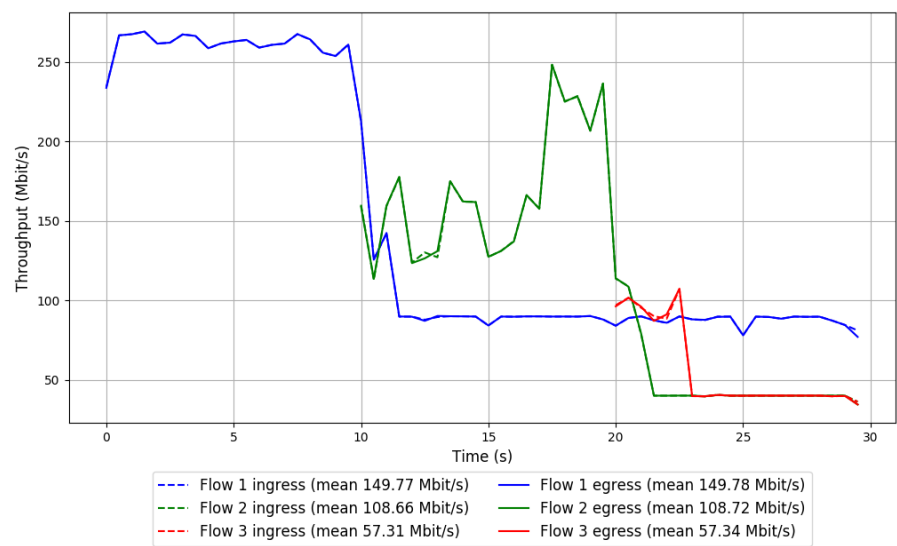
-- Flow 3:

Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 4.199 ms

Loss rate: 0.16%

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



Run 2: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 03:35:44 +0000

End at: Tue, 01 Aug 2017 03:36:14 +0000

Local clock offset: -0.044 ms

Remote clock offset: -0.836 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:15:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.77 Mbit/s

95th percentile per-packet one-way delay: 3.263 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 159.09 Mbit/s

95th percentile per-packet one-way delay: 2.810 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 113.72 Mbit/s

95th percentile per-packet one-way delay: 4.137 ms

Loss rate: 0.04%

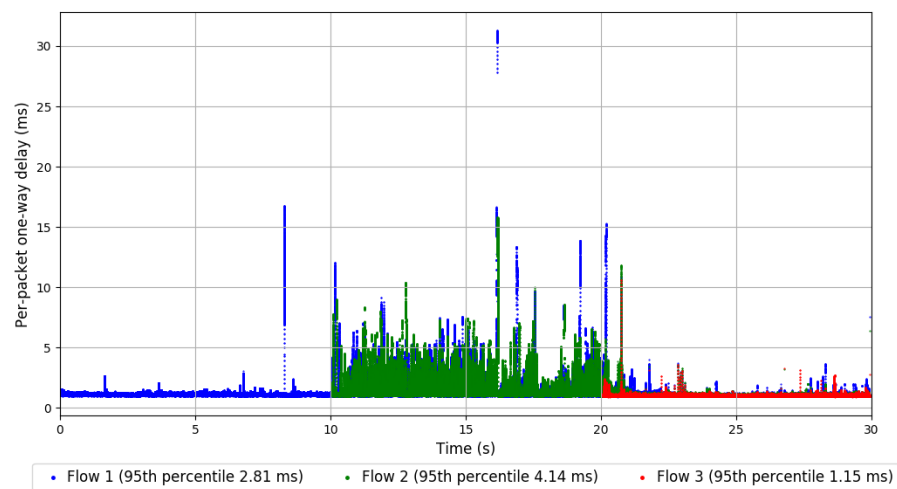
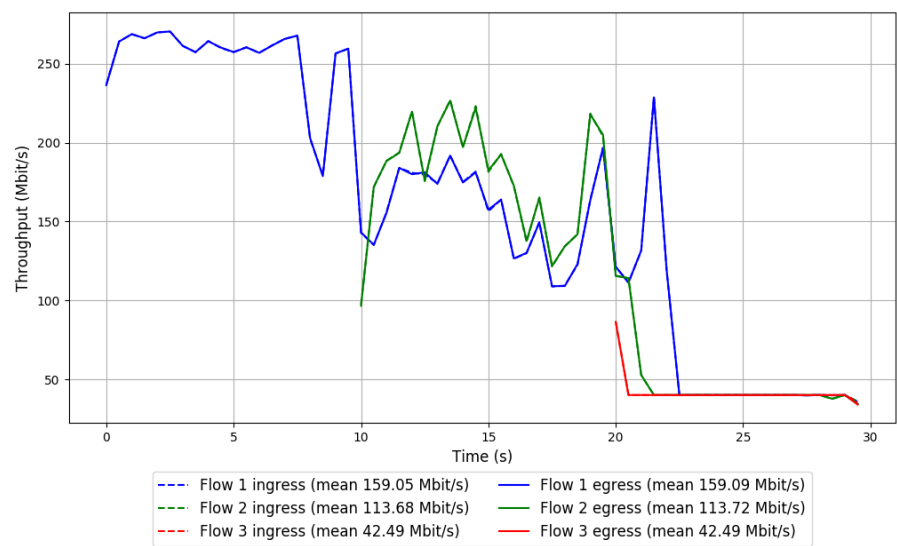
-- Flow 3:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.19%

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



Run 3: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 03:58:16 +0000

End at: Tue, 01 Aug 2017 03:58:46 +0000

Local clock offset: -0.086 ms

Remote clock offset: -0.956 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:16:24 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.74 Mbit/s

95th percentile per-packet one-way delay: 2.977 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 154.25 Mbit/s

95th percentile per-packet one-way delay: 2.670 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 143.42 Mbit/s

95th percentile per-packet one-way delay: 3.744 ms

Loss rate: 0.08%

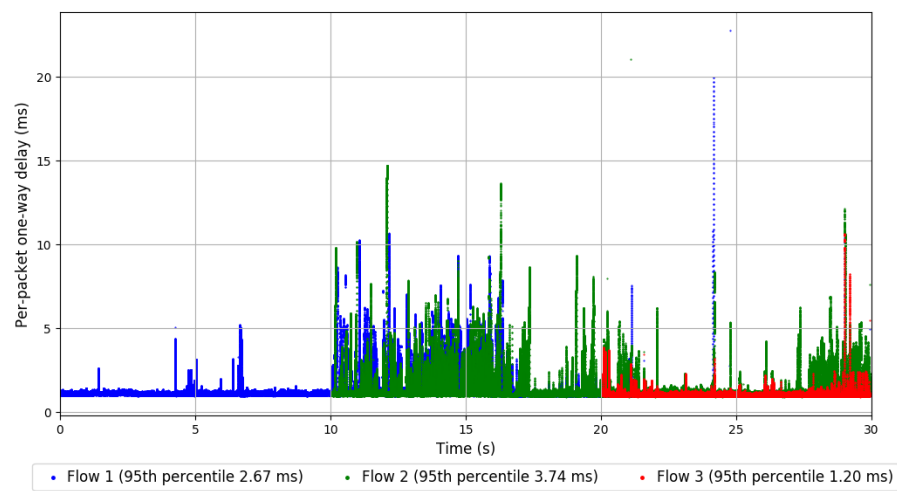
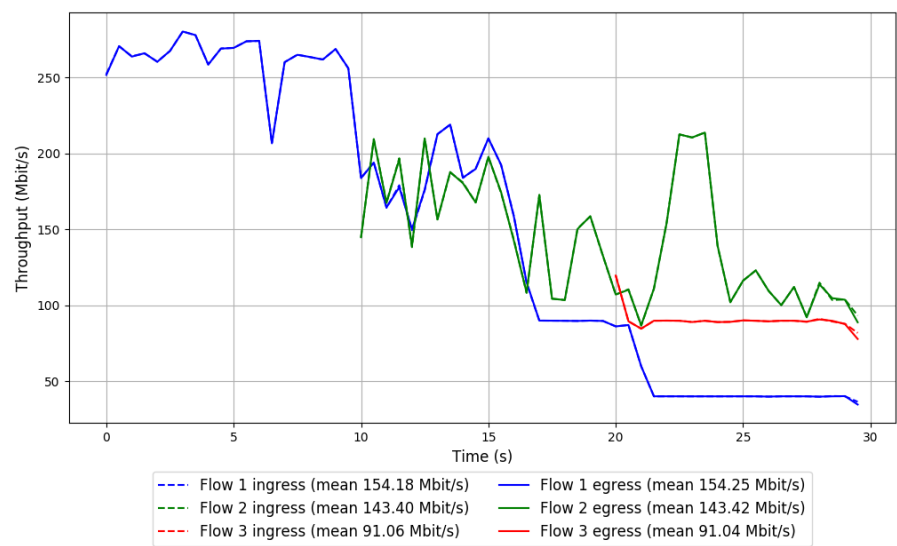
-- Flow 3:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.23%

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



Run 4: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 04:21:05 +0000

End at: Tue, 01 Aug 2017 04:21:35 +0000

Local clock offset: -0.178 ms

Remote clock offset: -1.103 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:16:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.21 Mbit/s

95th percentile per-packet one-way delay: 3.400 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 183.70 Mbit/s

95th percentile per-packet one-way delay: 3.210 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 118.79 Mbit/s

95th percentile per-packet one-way delay: 4.148 ms

Loss rate: 0.04%

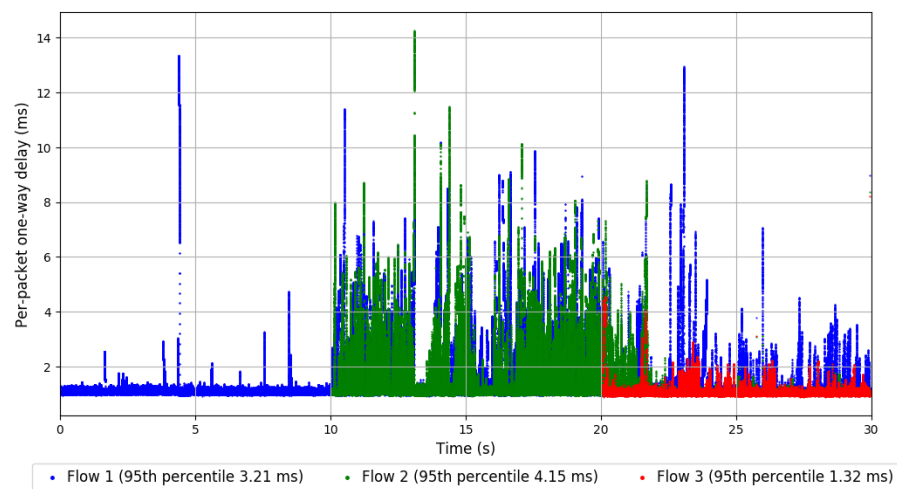
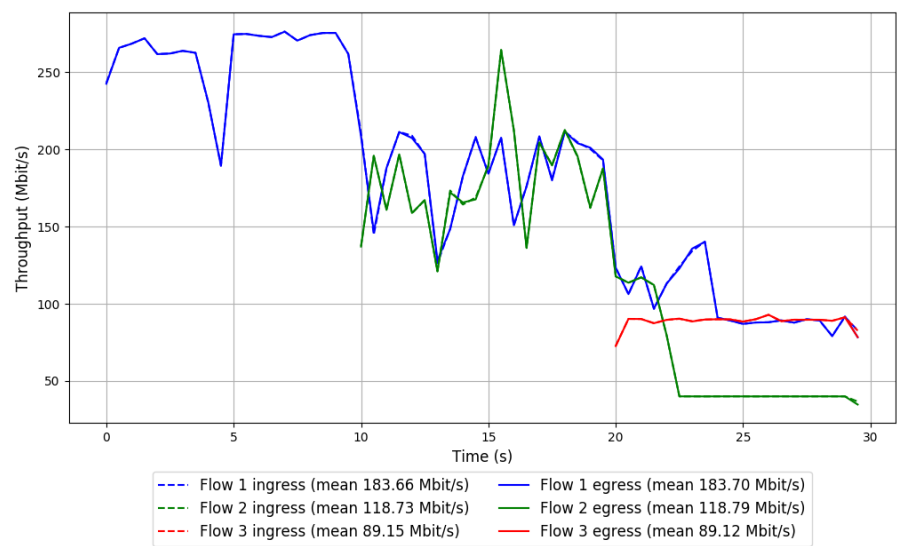
-- Flow 3:

Average throughput: 89.12 Mbit/s

95th percentile per-packet one-way delay: 1.323 ms

Loss rate: 0.25%

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



Run 5: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 04:43:37 +0000

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

Local clock offset: -0.196 ms

Remote clock offset: -0.979 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:17:25 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.24 Mbit/s

95th percentile per-packet one-way delay: 2.884 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 152.79 Mbit/s

95th percentile per-packet one-way delay: 2.993 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 110.55 Mbit/s

95th percentile per-packet one-way delay: 3.202 ms

Loss rate: 0.09%

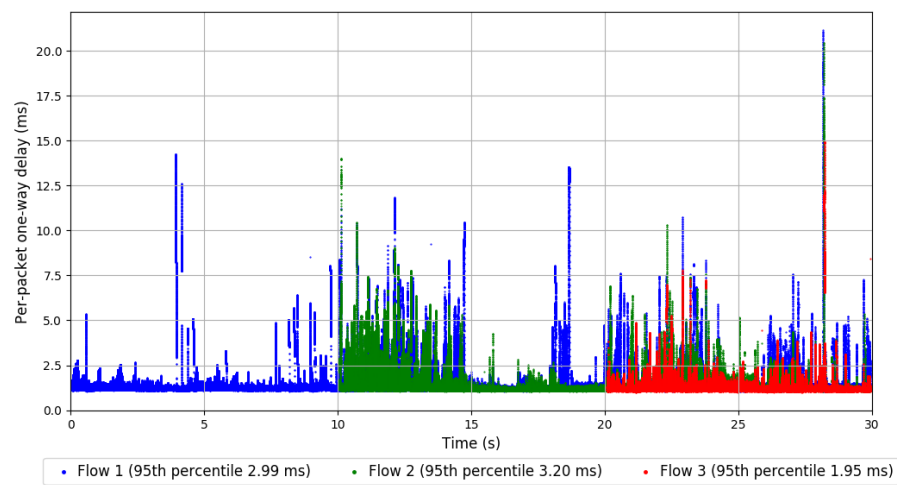
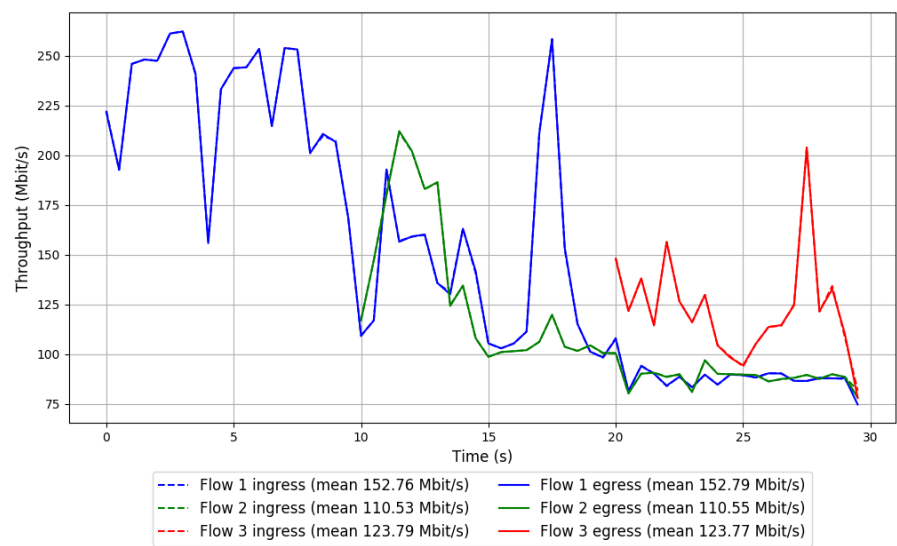
-- Flow 3:

Average throughput: 123.77 Mbit/s

95th percentile per-packet one-way delay: 1.948 ms

Loss rate: 0.16%

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



Run 6: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 05:06:07 +0000

End at: Tue, 01 Aug 2017 05:06:37 +0000

Local clock offset: -0.305 ms

Remote clock offset: -1.186 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:17:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.57 Mbit/s

95th percentile per-packet one-way delay: 2.734 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 162.91 Mbit/s

95th percentile per-packet one-way delay: 2.279 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 55.45 Mbit/s

95th percentile per-packet one-way delay: 1.482 ms

Loss rate: 0.02%

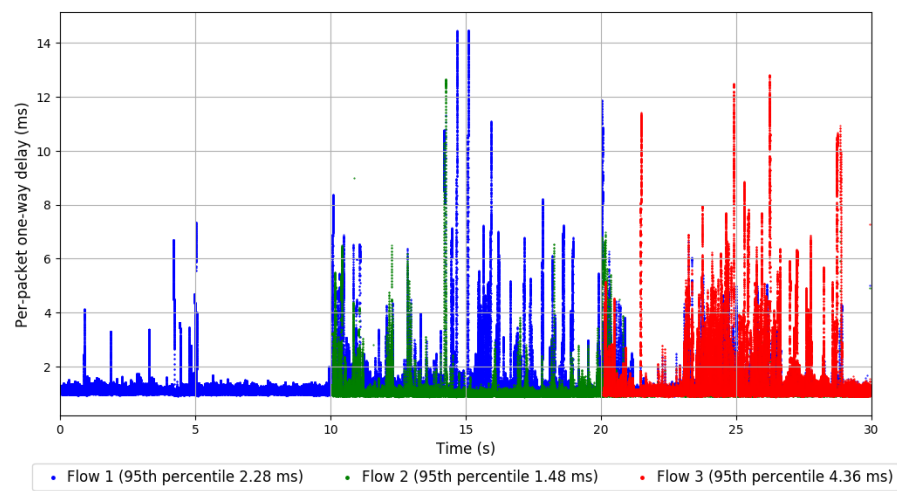
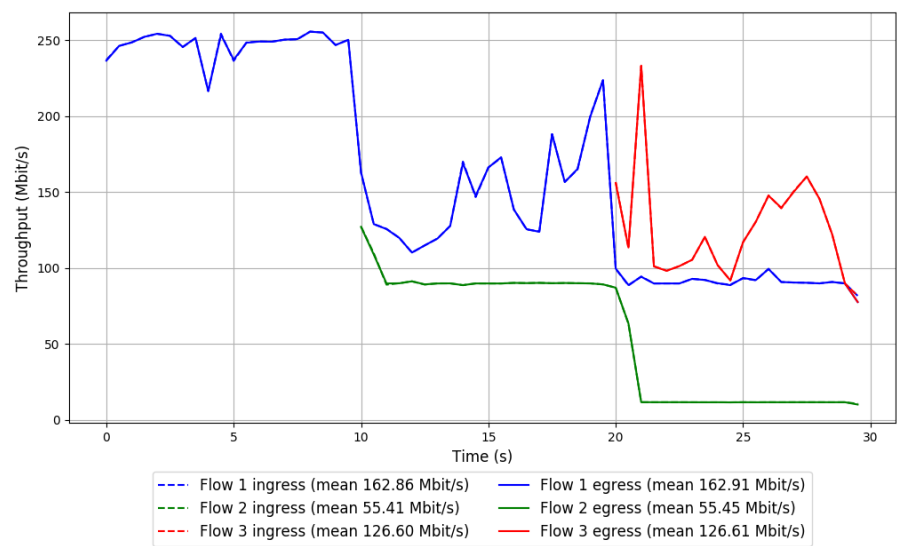
-- Flow 3:

Average throughput: 126.61 Mbit/s

95th percentile per-packet one-way delay: 4.357 ms

Loss rate: 0.17%

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



Run 7: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 05:28:39 +0000

End at: Tue, 01 Aug 2017 05:29:09 +0000

Local clock offset: -0.382 ms

Remote clock offset: -0.944 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:18:10 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.69 Mbit/s

95th percentile per-packet one-way delay: 2.204 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 140.85 Mbit/s

95th percentile per-packet one-way delay: 1.537 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 3.474 ms

Loss rate: 0.04%

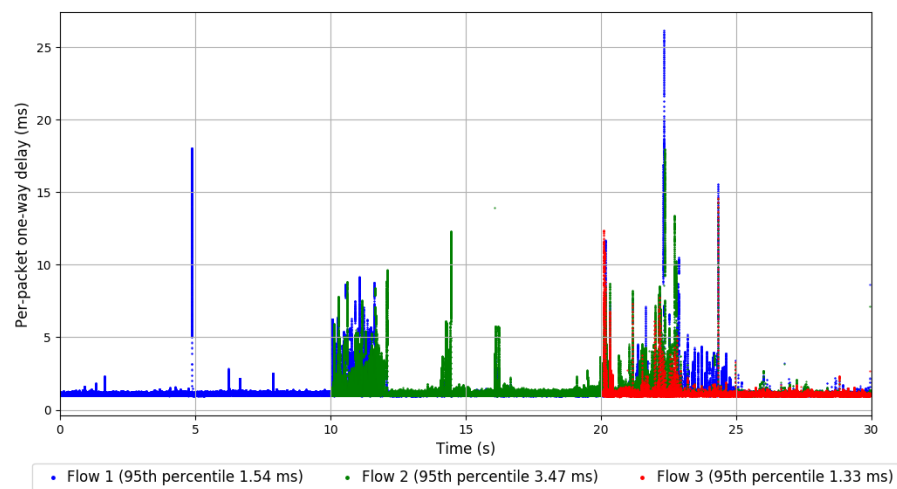
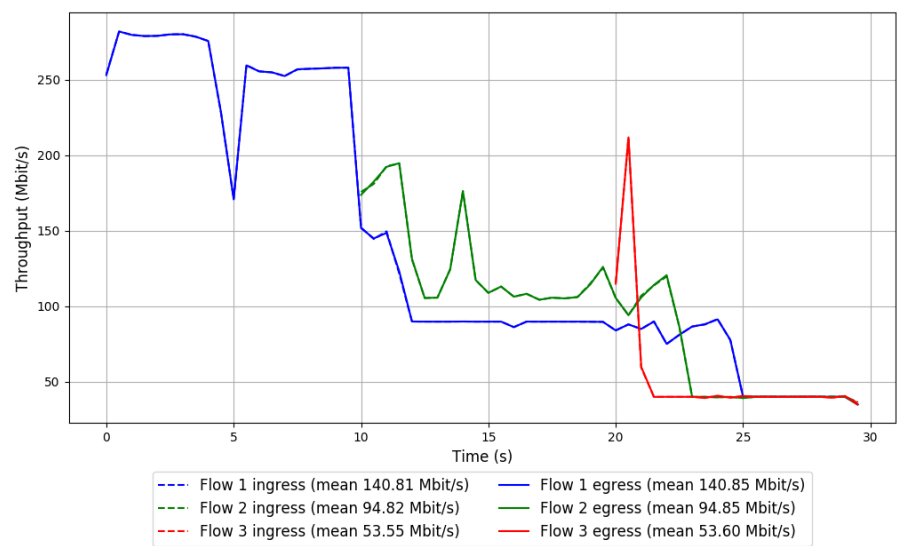
-- Flow 3:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.10%

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



Run 8: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 05:51:04 +0000

End at: Tue, 01 Aug 2017 05:51:34 +0000

Local clock offset: 0.035 ms

Remote clock offset: -0.484 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:18:35 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.01 Mbit/s

95th percentile per-packet one-way delay: 2.995 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 152.49 Mbit/s

95th percentile per-packet one-way delay: 2.730 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 115.86 Mbit/s

95th percentile per-packet one-way delay: 3.523 ms

Loss rate: 0.04%

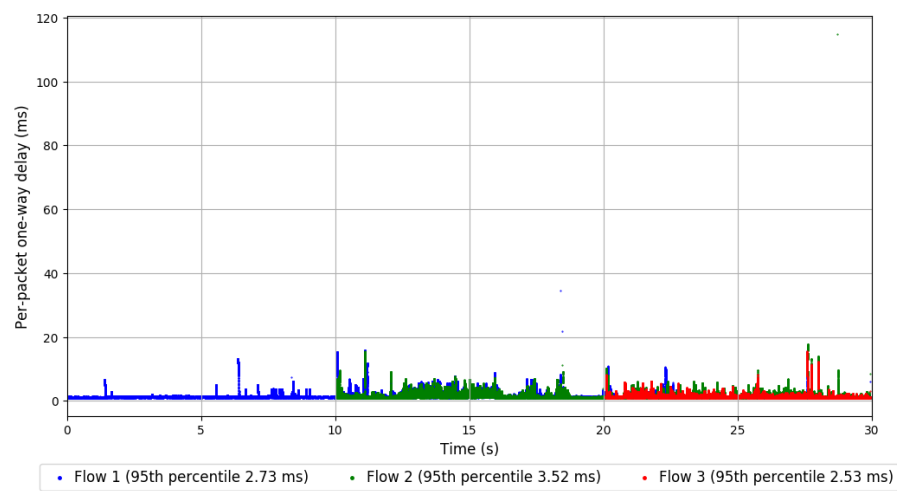
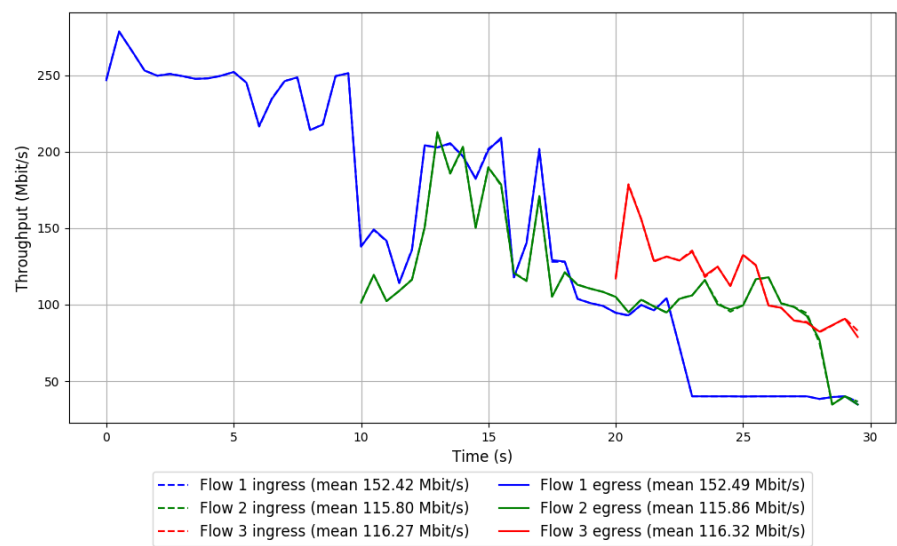
-- Flow 3:

Average throughput: 116.32 Mbit/s

95th percentile per-packet one-way delay: 2.526 ms

Loss rate: 0.22%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 06:13:33 +0000

End at: Tue, 01 Aug 2017 06:14:03 +0000

Local clock offset: 0.404 ms

Remote clock offset: -0.395 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:19:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.64 Mbit/s

95th percentile per-packet one-way delay: 2.966 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 170.05 Mbit/s

95th percentile per-packet one-way delay: 2.580 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 144.29 Mbit/s

95th percentile per-packet one-way delay: 3.713 ms

Loss rate: 0.05%

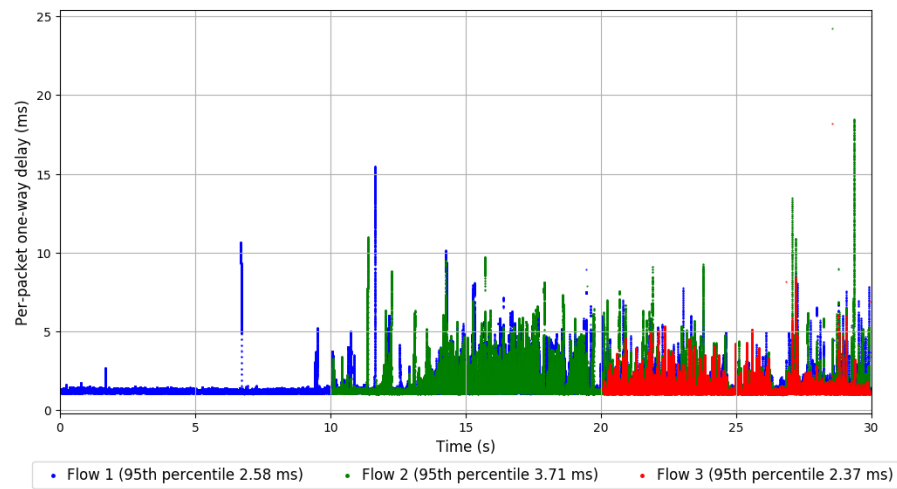
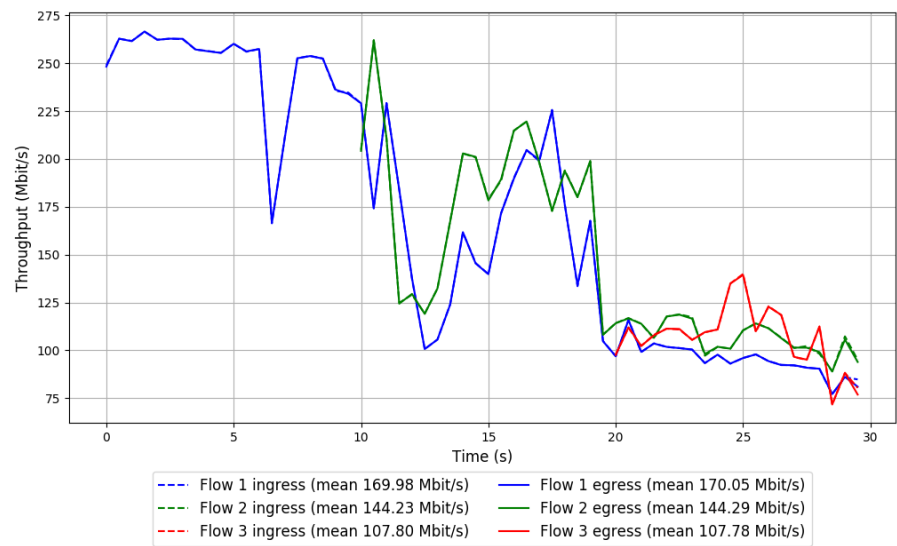
-- Flow 3:

Average throughput: 107.78 Mbit/s

95th percentile per-packet one-way delay: 2.368 ms

Loss rate: 0.17%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: Tue, 01 Aug 2017 06:36:11 +0000

End at: Tue, 01 Aug 2017 06:36:41 +0000

Local clock offset: 0.556 ms

Remote clock offset: -0.063 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:19:39 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 264.20 Mbit/s

95th percentile per-packet one-way delay: 3.061 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 171.22 Mbit/s

95th percentile per-packet one-way delay: 2.826 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 103.52 Mbit/s

95th percentile per-packet one-way delay: 3.959 ms

Loss rate: 0.05%

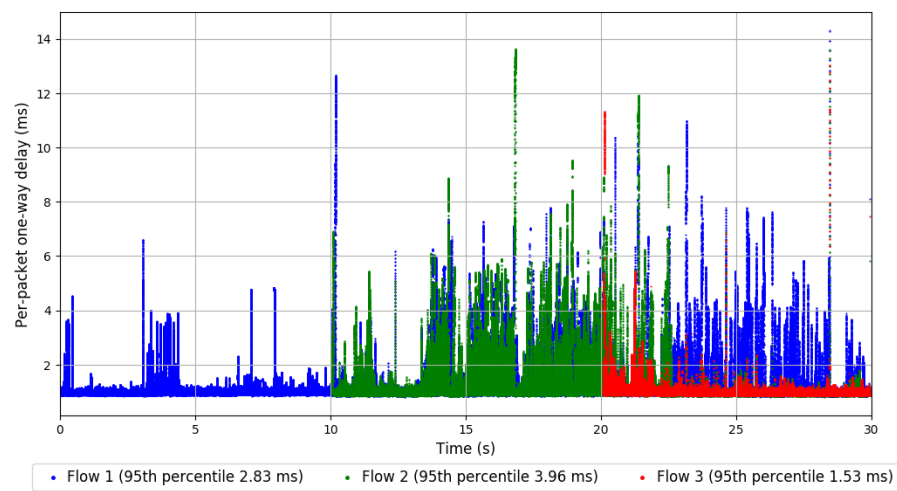
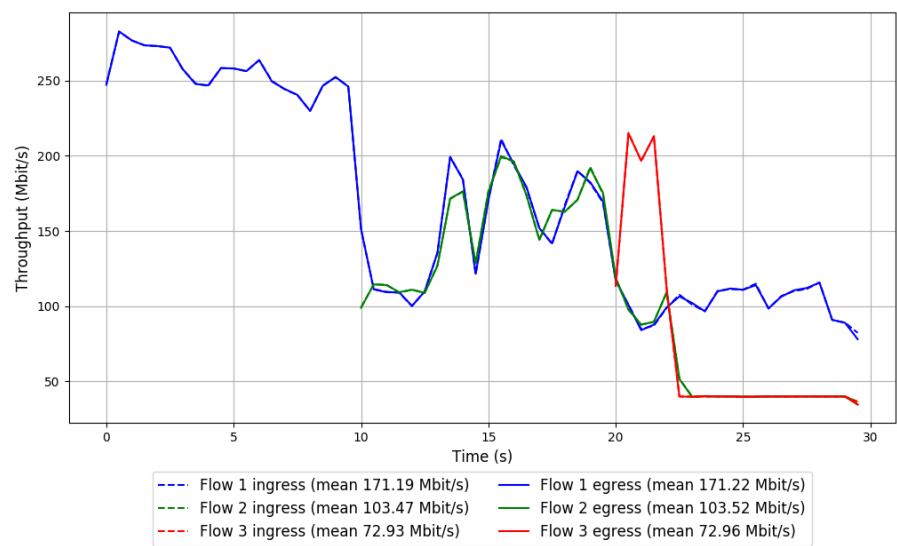
-- Flow 3:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 1.527 ms

Loss rate: 0.13%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 03:23:43 +0000

End at: Tue, 01 Aug 2017 03:24:13 +0000

Local clock offset: -0.11 ms

Remote clock offset: -0.946 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:20:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 586.55 Mbit/s

95th percentile per-packet one-way delay: 29.129 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 278.30 Mbit/s

95th percentile per-packet one-way delay: 8.808 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 316.65 Mbit/s

95th percentile per-packet one-way delay: 30.498 ms

Loss rate: 0.06%

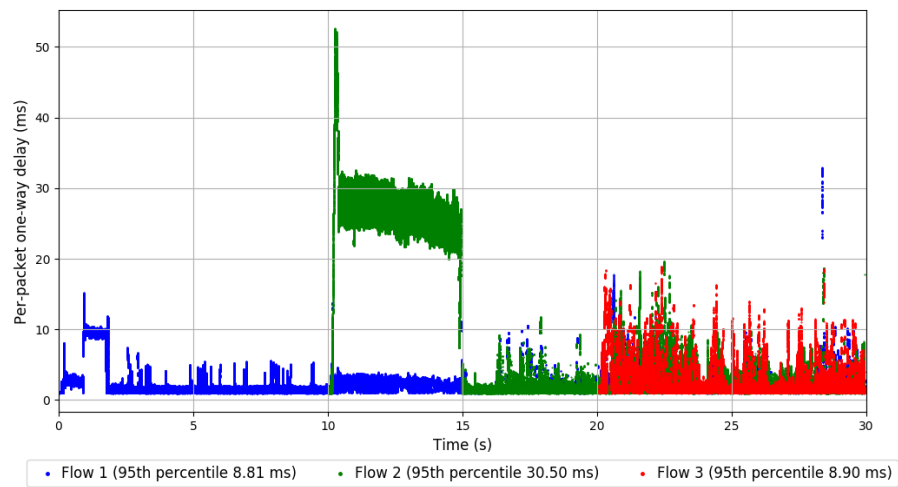
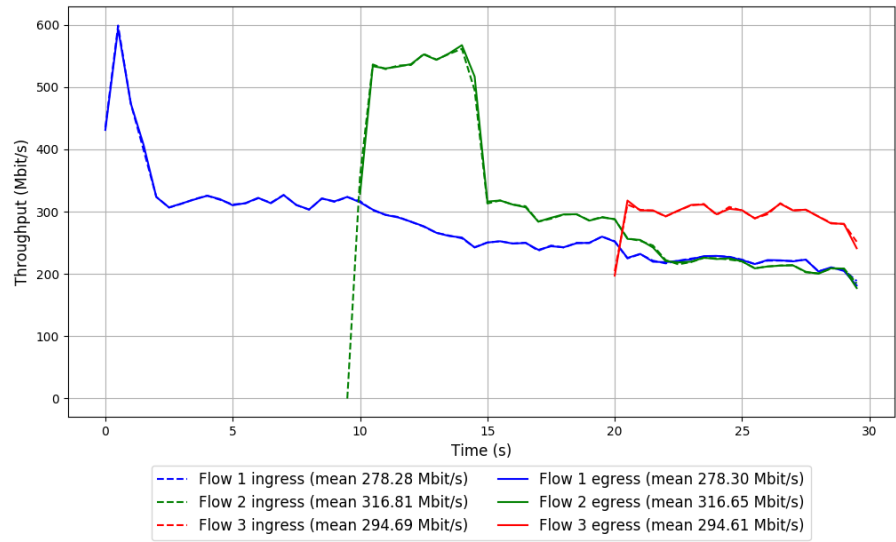
-- Flow 3:

Average throughput: 294.61 Mbit/s

95th percentile per-packet one-way delay: 8.898 ms

Loss rate: 0.20%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 03:46:11 +0000

End at: Tue, 01 Aug 2017 03:46:41 +0000

Local clock offset: -0.059 ms

Remote clock offset: -0.968 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:20:45 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.63 Mbit/s

95th percentile per-packet one-way delay: 7.742 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 224.28 Mbit/s

95th percentile per-packet one-way delay: 4.574 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 223.77 Mbit/s

95th percentile per-packet one-way delay: 6.467 ms

Loss rate: 0.10%

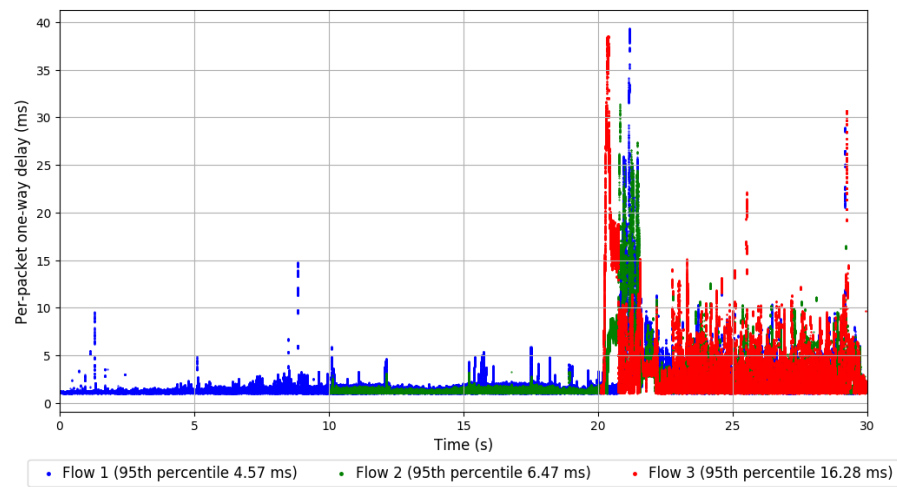
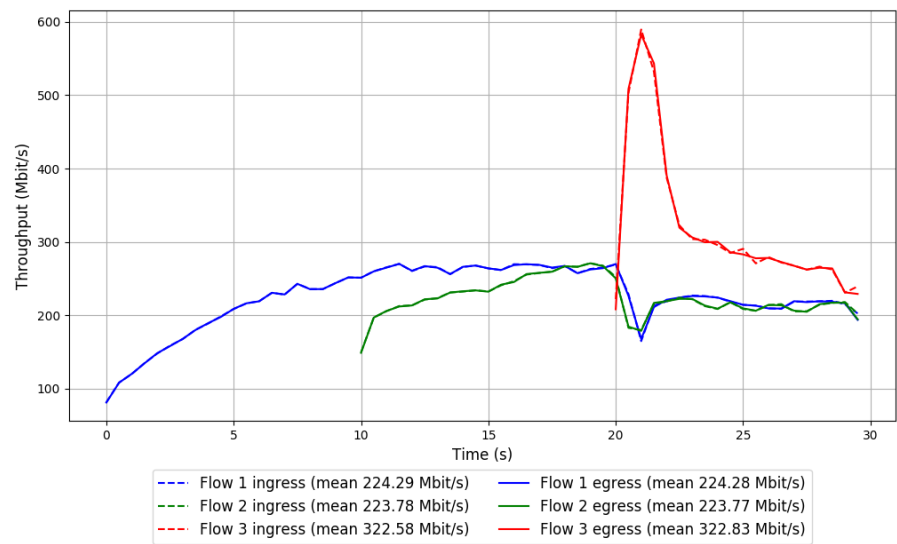
-- Flow 3:

Average throughput: 322.83 Mbit/s

95th percentile per-packet one-way delay: 16.279 ms

Loss rate: 0.17%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 04:08:51 +0000

End at: Tue, 01 Aug 2017 04:09:21 +0000

Local clock offset: -0.149 ms

Remote clock offset: -1.126 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:22:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 683.81 Mbit/s

95th percentile per-packet one-way delay: 10.685 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 402.51 Mbit/s

95th percentile per-packet one-way delay: 10.760 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 294.10 Mbit/s

95th percentile per-packet one-way delay: 7.495 ms

Loss rate: 0.08%

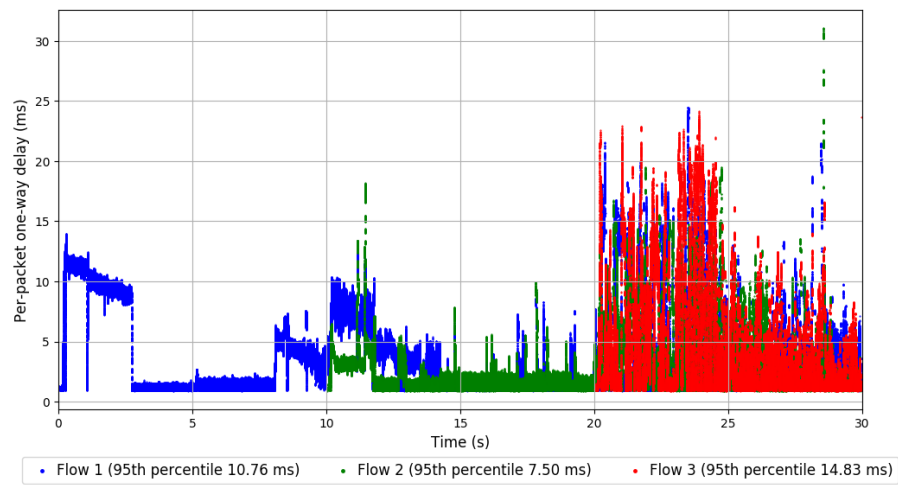
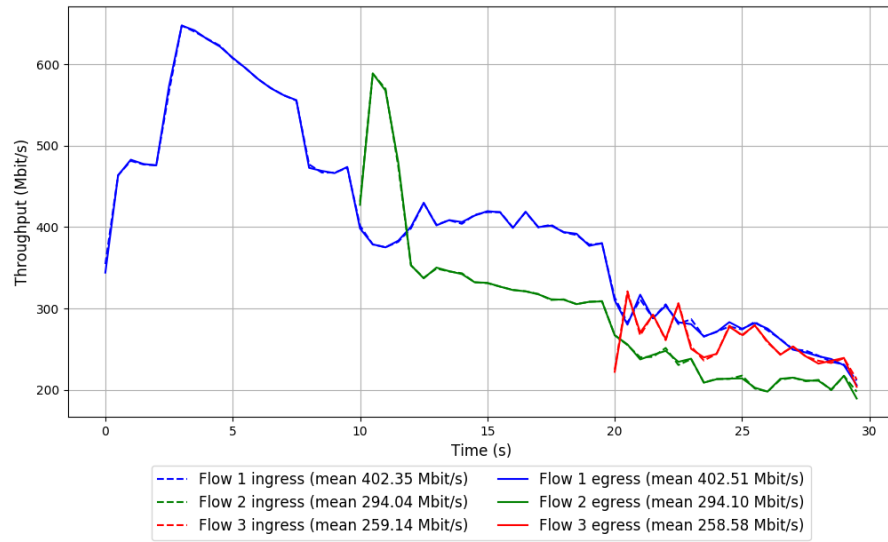
-- Flow 3:

Average throughput: 258.58 Mbit/s

95th percentile per-packet one-way delay: 14.828 ms

Loss rate: 0.20%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 04:31:35 +0000

End at: Tue, 01 Aug 2017 04:32:05 +0000

Local clock offset: -0.233 ms

Remote clock offset: -1.113 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:22:07 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 607.42 Mbit/s

95th percentile per-packet one-way delay: 16.241 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 285.48 Mbit/s

95th percentile per-packet one-way delay: 3.747 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 280.63 Mbit/s

95th percentile per-packet one-way delay: 6.060 ms

Loss rate: 0.07%

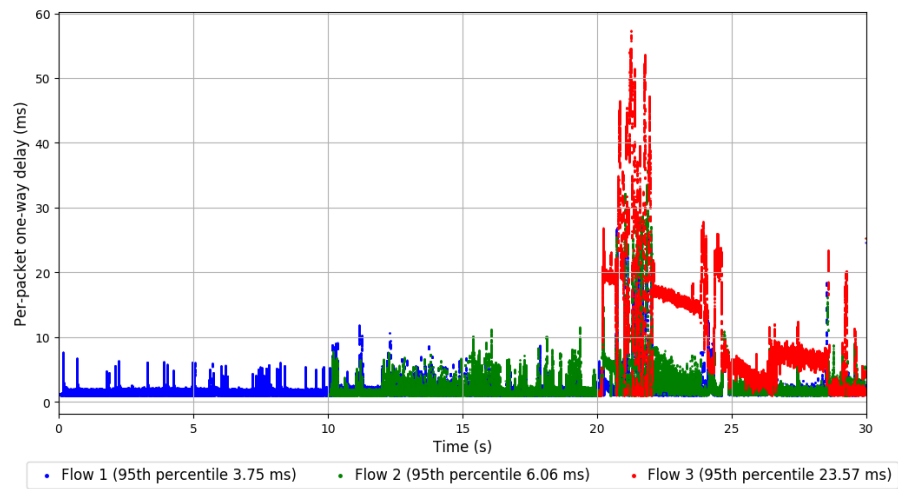
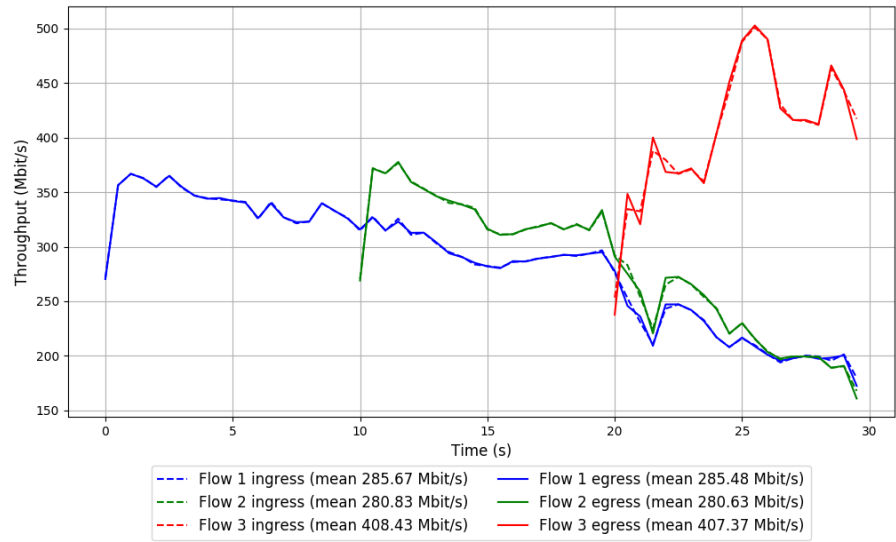
-- Flow 3:

Average throughput: 407.37 Mbit/s

95th percentile per-packet one-way delay: 23.566 ms

Loss rate: 0.24%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 04:53:58 +0000

End at: Tue, 01 Aug 2017 04:54:28 +0000

Local clock offset: -0.189 ms

Remote clock offset: -1.096 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:23:13 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 576.72 Mbit/s

95th percentile per-packet one-way delay: 34.755 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 355.65 Mbit/s

95th percentile per-packet one-way delay: 35.953 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 229.15 Mbit/s

95th percentile per-packet one-way delay: 4.413 ms

Loss rate: 0.10%

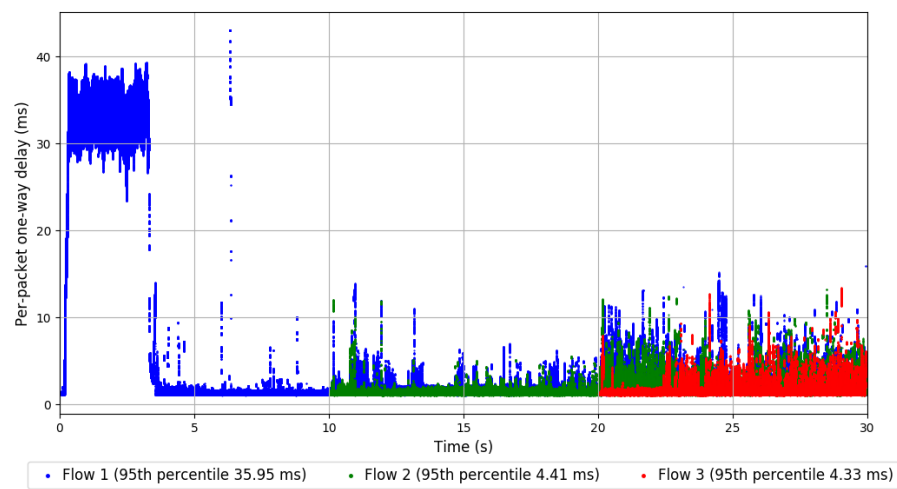
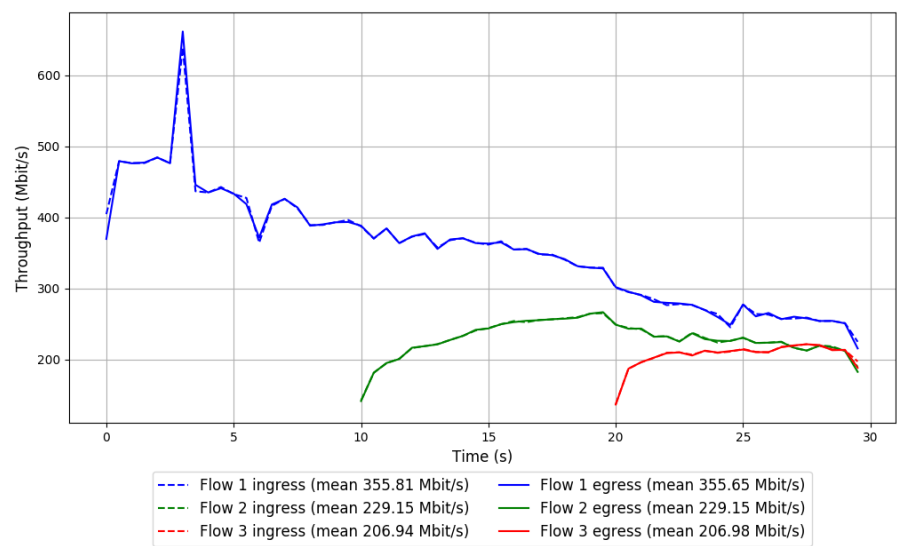
-- Flow 3:

Average throughput: 206.98 Mbit/s

95th percentile per-packet one-way delay: 4.328 ms

Loss rate: 0.23%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 05:16:38 +0000

End at: Tue, 01 Aug 2017 05:17:08 +0000

Local clock offset: -0.25 ms

Remote clock offset: -1.106 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:23:19 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 556.58 Mbit/s

95th percentile per-packet one-way delay: 5.370 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 272.84 Mbit/s

95th percentile per-packet one-way delay: 4.625 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 280.85 Mbit/s

95th percentile per-packet one-way delay: 5.245 ms

Loss rate: 0.08%

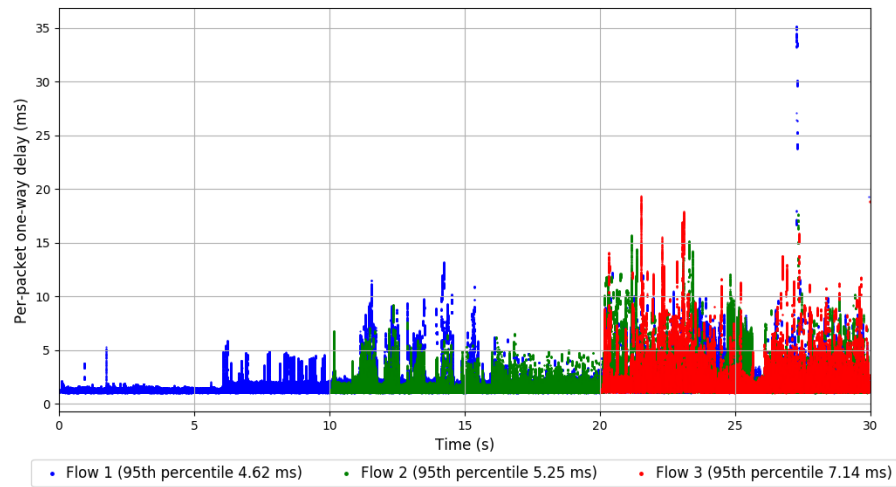
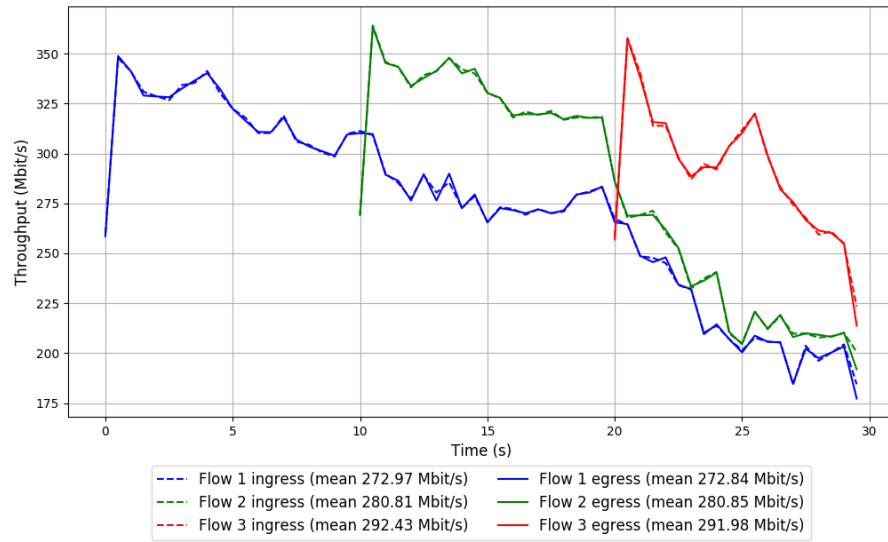
-- Flow 3:

Average throughput: 291.98 Mbit/s

95th percentile per-packet one-way delay: 7.138 ms

Loss rate: 0.17%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 05:39:02 +0000

End at: Tue, 01 Aug 2017 05:39:32 +0000

Local clock offset: -0.243 ms

Remote clock offset: -0.753 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:24:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 581.65 Mbit/s

95th percentile per-packet one-way delay: 38.081 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 206.33 Mbit/s

95th percentile per-packet one-way delay: 5.883 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 428.74 Mbit/s

95th percentile per-packet one-way delay: 38.607 ms

Loss rate: 0.08%

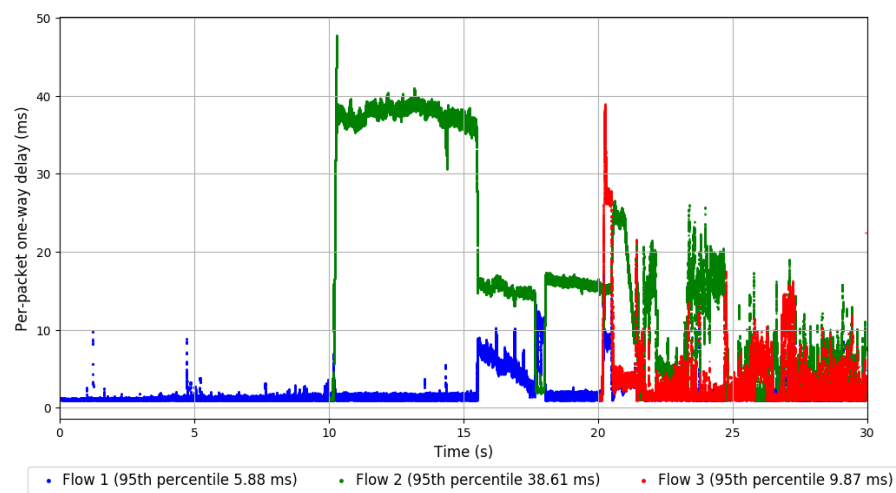
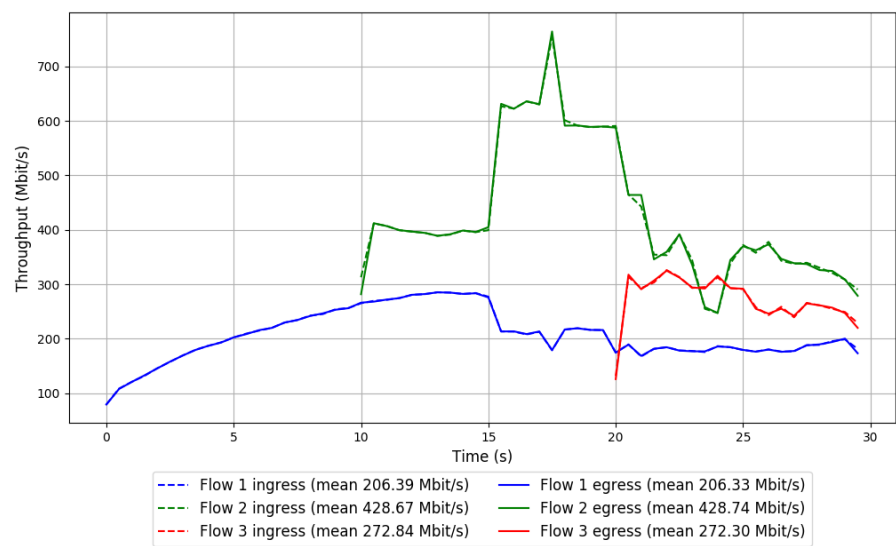
-- Flow 3:

Average throughput: 272.30 Mbit/s

95th percentile per-packet one-way delay: 9.874 ms

Loss rate: 0.20%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

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

Local clock offset: 0.23 ms

Remote clock offset: -0.406 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:24:28 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 523.95 Mbit/s

95th percentile per-packet one-way delay: 15.699 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 226.15 Mbit/s

95th percentile per-packet one-way delay: 2.599 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 233.61 Mbit/s

95th percentile per-packet one-way delay: 3.276 ms

Loss rate: 0.09%

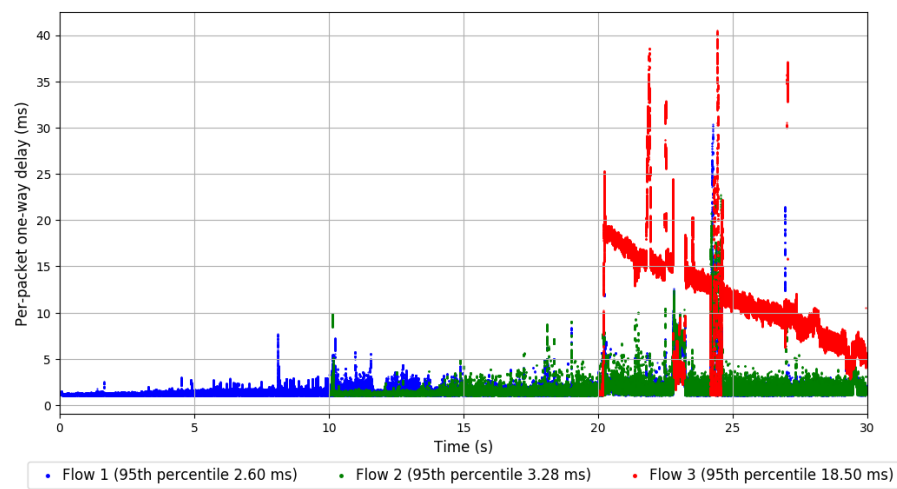
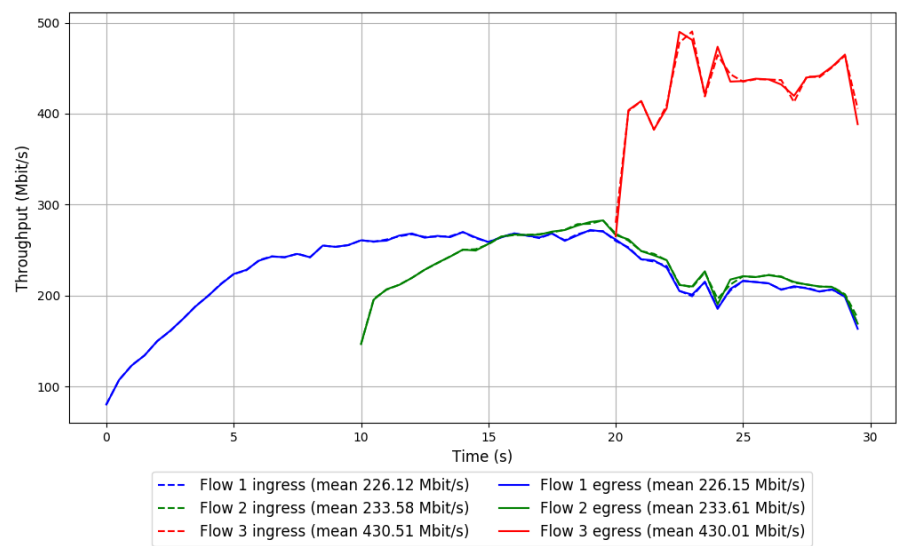
-- Flow 3:

Average throughput: 430.01 Mbit/s

95th percentile per-packet one-way delay: 18.500 ms

Loss rate: 0.26%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 06:24:07 +0000

End at: Tue, 01 Aug 2017 06:24:37 +0000

Local clock offset: 0.432 ms

Remote clock offset: -0.322 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:25:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 549.82 Mbit/s

95th percentile per-packet one-way delay: 35.275 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 223.01 Mbit/s

95th percentile per-packet one-way delay: 5.449 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 394.05 Mbit/s

95th percentile per-packet one-way delay: 35.907 ms

Loss rate: 0.06%

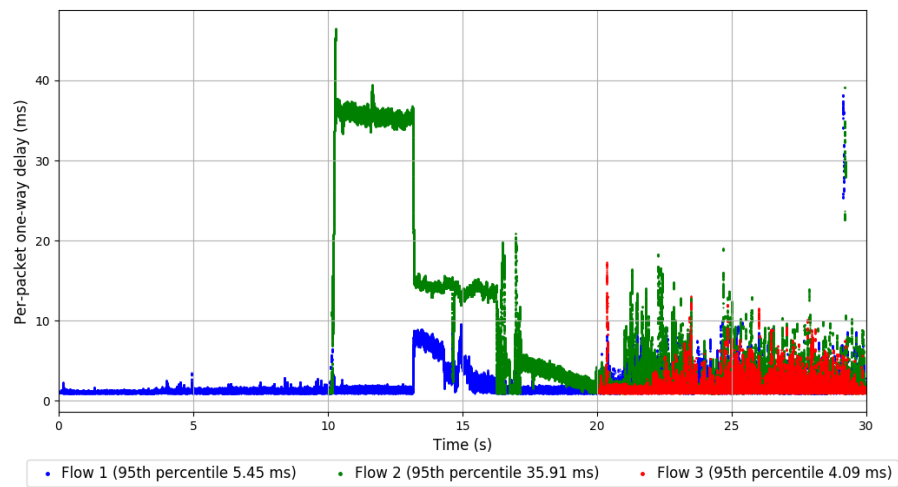
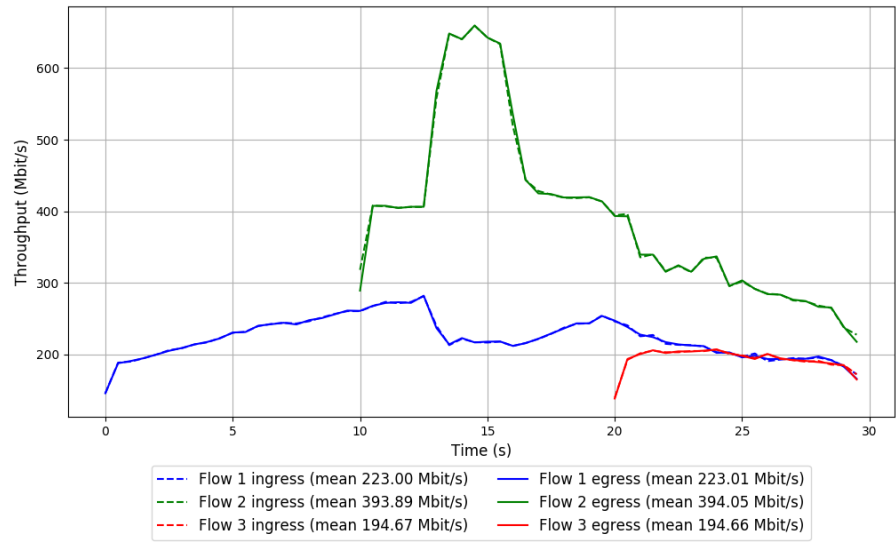
-- Flow 3:

Average throughput: 194.66 Mbit/s

95th percentile per-packet one-way delay: 4.095 ms

Loss rate: 0.19%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: Tue, 01 Aug 2017 06:46:38 +0000

End at: Tue, 01 Aug 2017 06:47:08 +0000

Local clock offset: 0.666 ms

Remote clock offset: -0.104 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:25:36 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 481.41 Mbit/s

95th percentile per-packet one-way delay: 6.810 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 302.13 Mbit/s

95th percentile per-packet one-way delay: 11.989 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 160.20 Mbit/s

95th percentile per-packet one-way delay: 1.626 ms

Loss rate: 0.06%

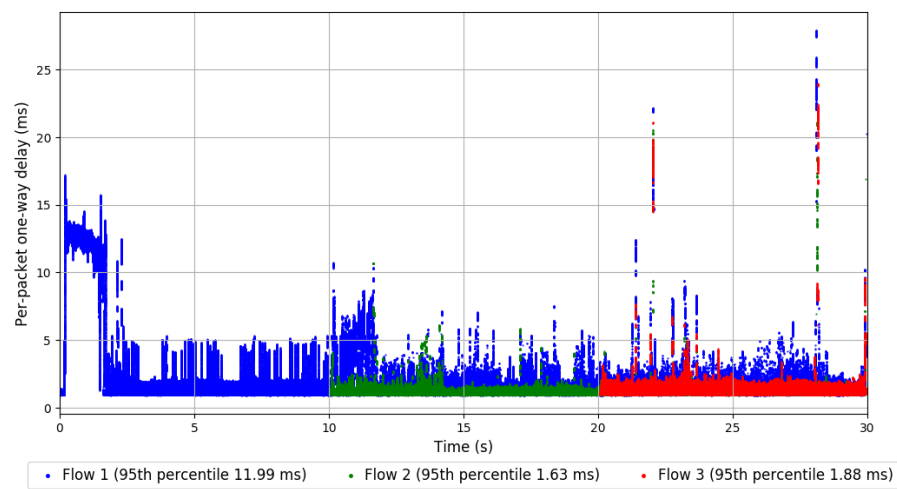
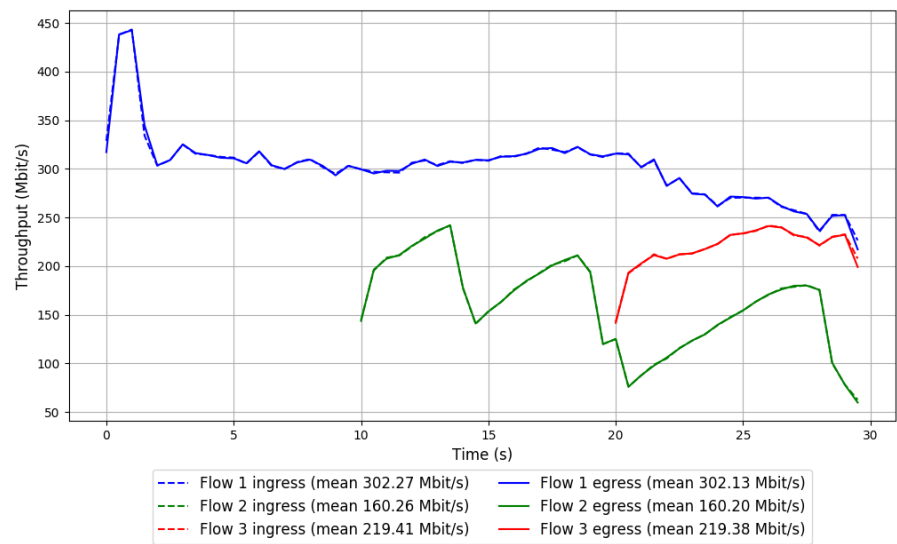
-- Flow 3:

Average throughput: 219.38 Mbit/s

95th percentile per-packet one-way delay: 1.879 ms

Loss rate: 0.22%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: Tue, 01 Aug 2017 03:25:23 +0000

End at: Tue, 01 Aug 2017 03:25:53 +0000

Local clock offset: -0.011 ms

Remote clock offset: -0.931 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:26:05 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.32 Mbit/s

95th percentile per-packet one-way delay: 33.372 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 197.97 Mbit/s

95th percentile per-packet one-way delay: 38.853 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 163.26 Mbit/s

95th percentile per-packet one-way delay: 24.734 ms

Loss rate: 0.18%

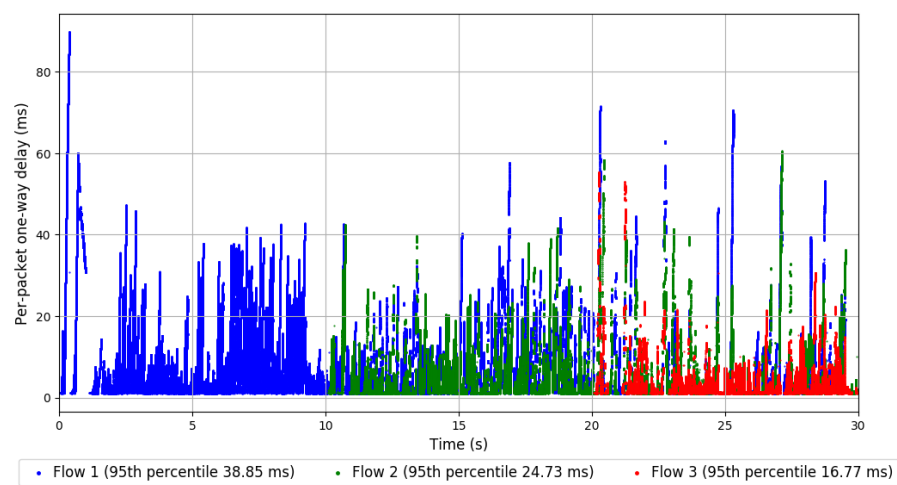
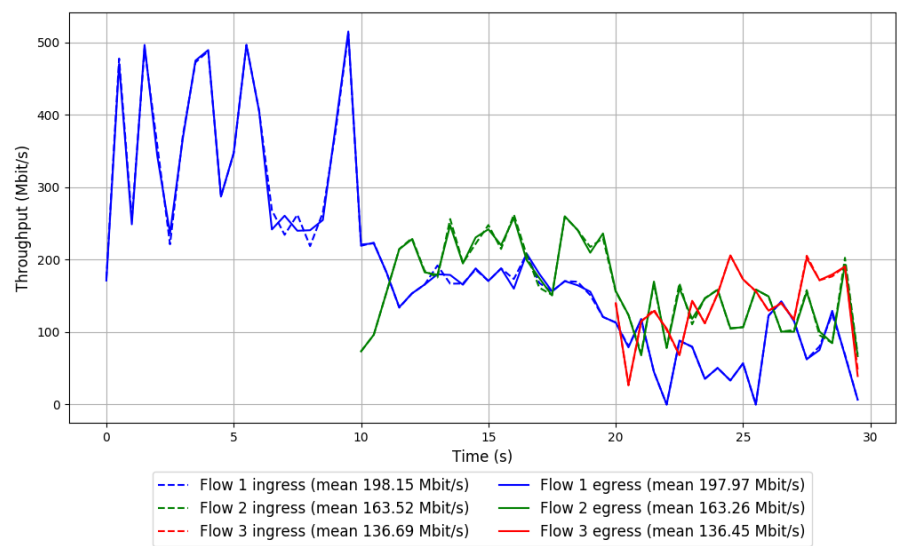
-- Flow 3:

Average throughput: 136.45 Mbit/s

95th percentile per-packet one-way delay: 16.766 ms

Loss rate: 0.37%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: Tue, 01 Aug 2017 03:47:45 +0000

End at: Tue, 01 Aug 2017 03:48:15 +0000

Local clock offset: -0.165 ms

Remote clock offset: -0.925 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:26:29 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 430.46 Mbit/s

95th percentile per-packet one-way delay: 62.213 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 264.47 Mbit/s

95th percentile per-packet one-way delay: 73.604 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 170.41 Mbit/s

95th percentile per-packet one-way delay: 29.705 ms

Loss rate: 0.04%

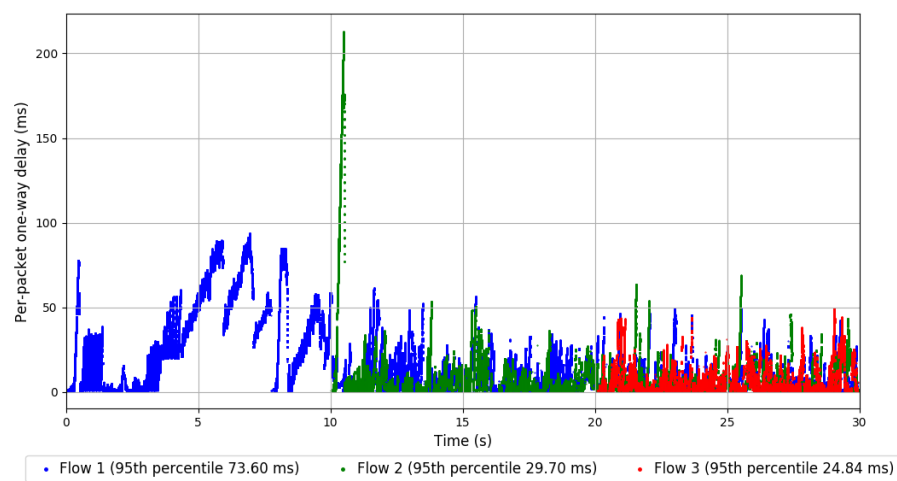
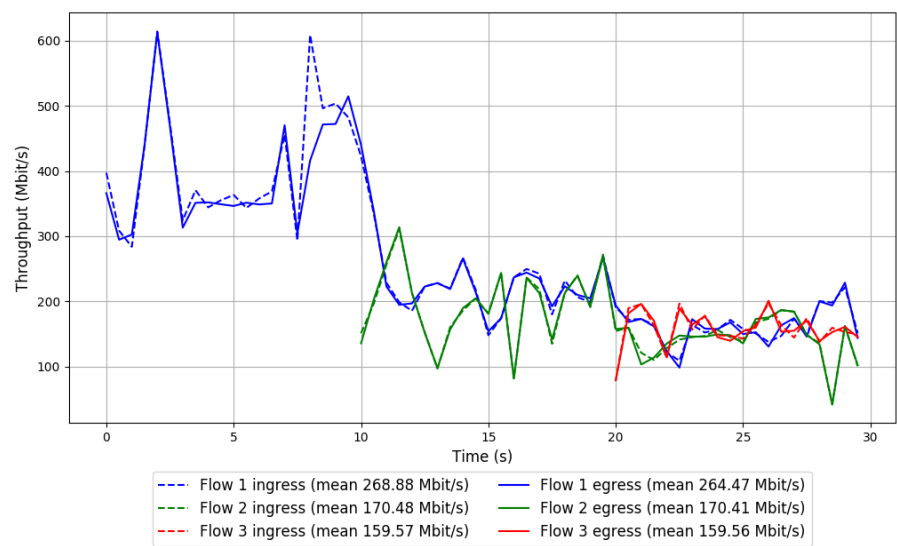
-- Flow 3:

Average throughput: 159.56 Mbit/s

95th percentile per-packet one-way delay: 24.837 ms

Loss rate: 0.17%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: Tue, 01 Aug 2017 04:10:35 +0000

End at: Tue, 01 Aug 2017 04:11:05 +0000

Local clock offset: -0.055 ms

Remote clock offset: -1.192 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:26:59 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 423.09 Mbit/s

95th percentile per-packet one-way delay: 29.198 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 267.17 Mbit/s

95th percentile per-packet one-way delay: 29.210 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 189.18 Mbit/s

95th percentile per-packet one-way delay: 26.121 ms

Loss rate: 0.05%

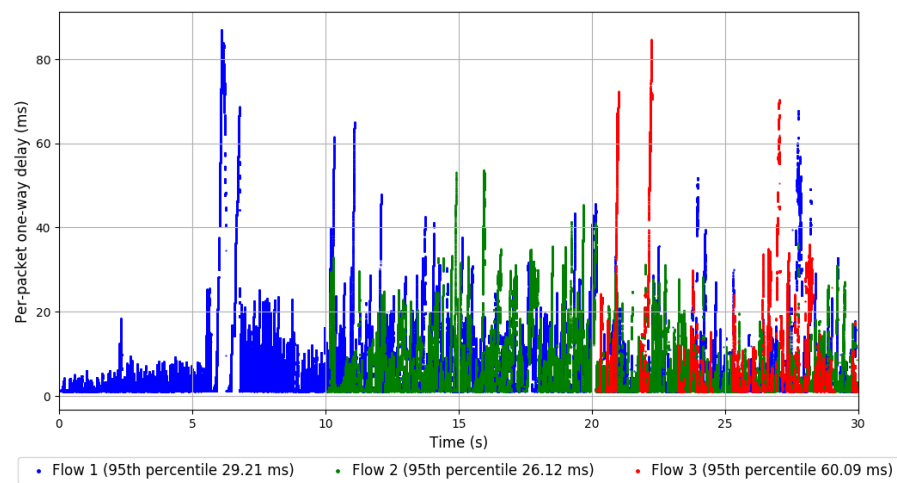
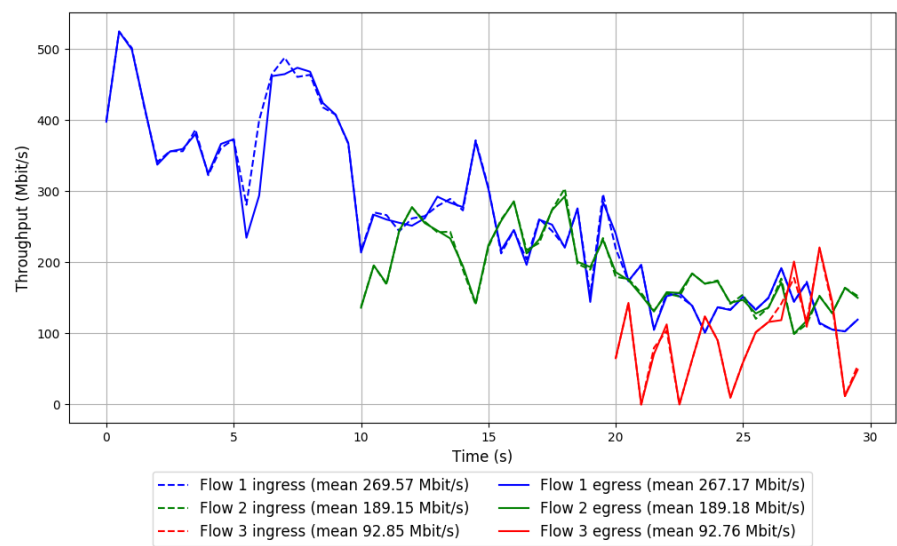
-- Flow 3:

Average throughput: 92.76 Mbit/s

95th percentile per-packet one-way delay: 60.086 ms

Loss rate: 0.32%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: Tue, 01 Aug 2017 04:33:15 +0000

End at: Tue, 01 Aug 2017 04:33:45 +0000

Local clock offset: -0.242 ms

Remote clock offset: -1.079 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:27:22 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 416.24 Mbit/s

95th percentile per-packet one-way delay: 35.721 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 247.45 Mbit/s

95th percentile per-packet one-way delay: 39.081 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 193.91 Mbit/s

95th percentile per-packet one-way delay: 28.344 ms

Loss rate: 0.19%

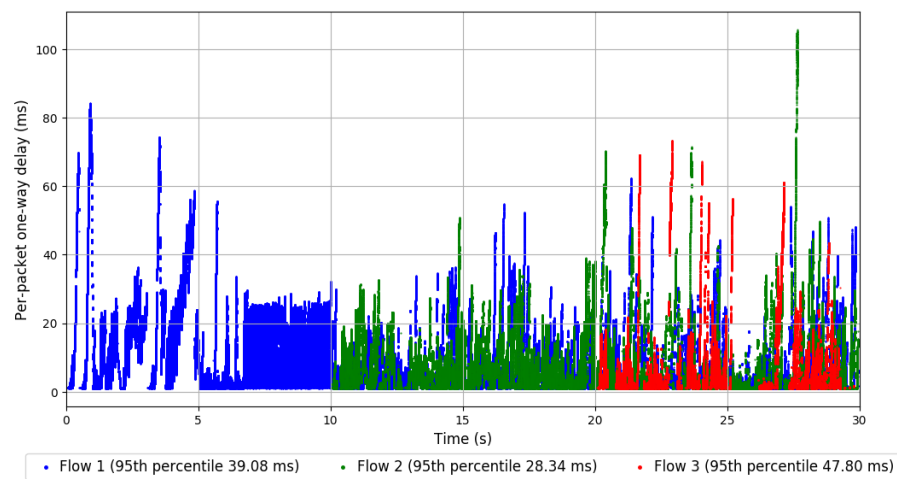
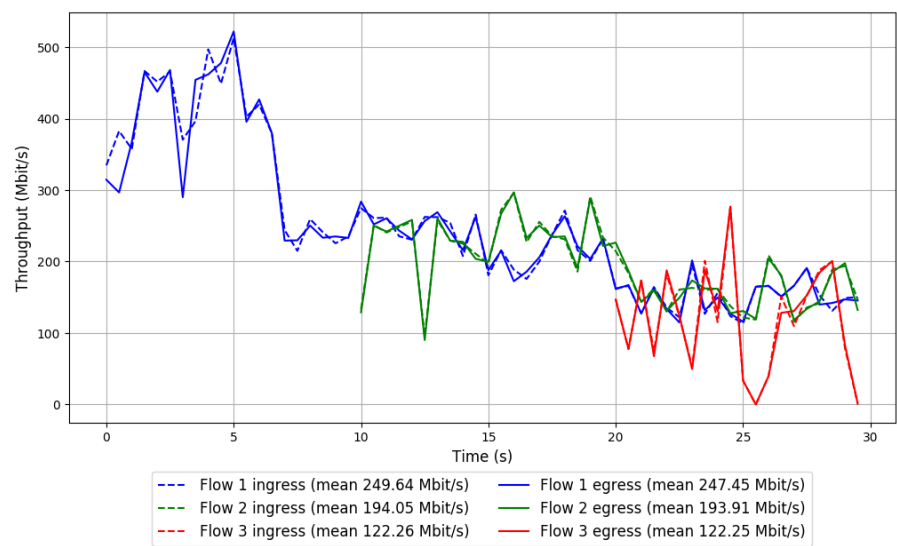
-- Flow 3:

Average throughput: 122.25 Mbit/s

95th percentile per-packet one-way delay: 47.797 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: Tue, 01 Aug 2017 04:55:37 +0000

End at: Tue, 01 Aug 2017 04:56:07 +0000

Local clock offset: -0.222 ms

Remote clock offset: -1.021 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:27:48 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.51 Mbit/s

95th percentile per-packet one-way delay: 32.213 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 195.42 Mbit/s

95th percentile per-packet one-way delay: 35.616 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 200.28 Mbit/s

95th percentile per-packet one-way delay: 22.460 ms

Loss rate: 0.11%

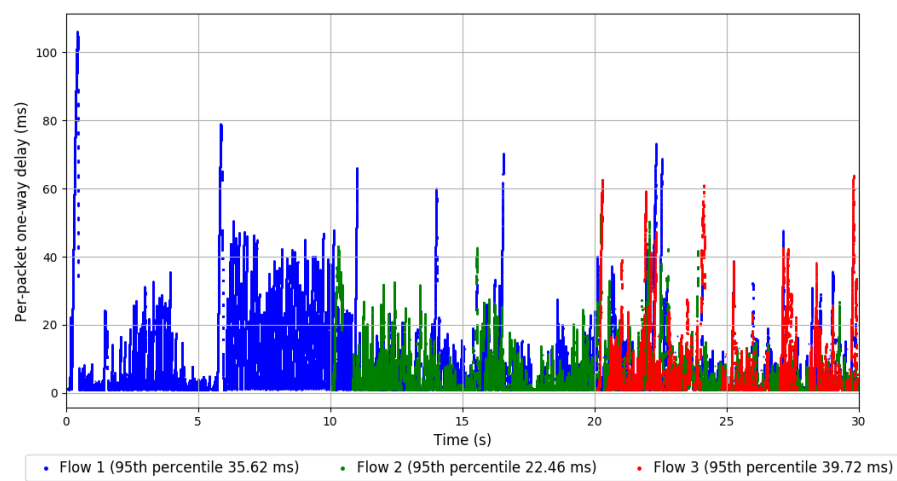
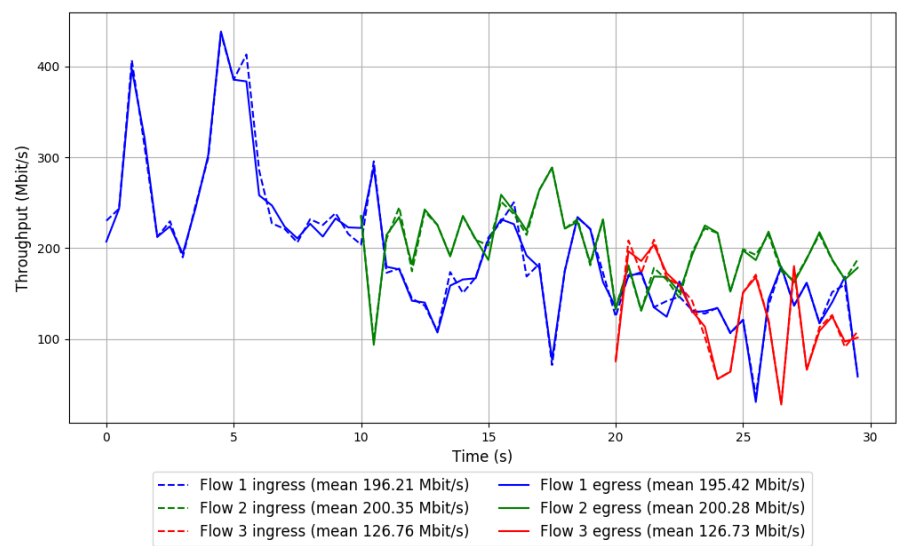
-- Flow 3:

Average throughput: 126.73 Mbit/s

95th percentile per-packet one-way delay: 39.722 ms

Loss rate: 0.27%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: Tue, 01 Aug 2017 05:18:16 +0000

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

Local clock offset: -0.264 ms

Remote clock offset: -1.103 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:28:08 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.94 Mbit/s

95th percentile per-packet one-way delay: 46.844 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 170.59 Mbit/s

95th percentile per-packet one-way delay: 58.221 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 198.18 Mbit/s

95th percentile per-packet one-way delay: 19.356 ms

Loss rate: 0.06%

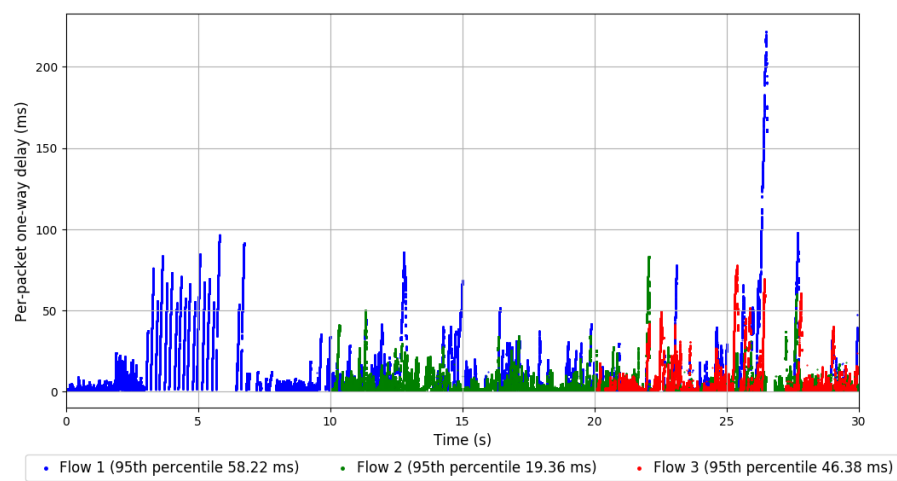
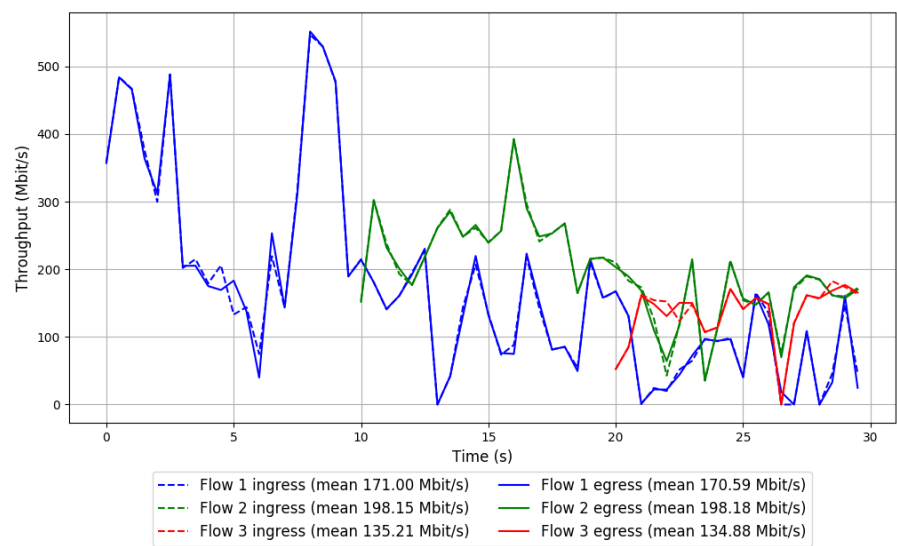
-- Flow 3:

Average throughput: 134.88 Mbit/s

95th percentile per-packet one-way delay: 46.376 ms

Loss rate: 0.32%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: Tue, 01 Aug 2017 05:40:41 +0000

End at: Tue, 01 Aug 2017 05:41:11 +0000

Local clock offset: -0.126 ms

Remote clock offset: -0.675 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:28:37 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.42 Mbit/s

95th percentile per-packet one-way delay: 23.876 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 261.36 Mbit/s

95th percentile per-packet one-way delay: 22.848 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 130.36 Mbit/s

95th percentile per-packet one-way delay: 30.291 ms

Loss rate: 0.08%

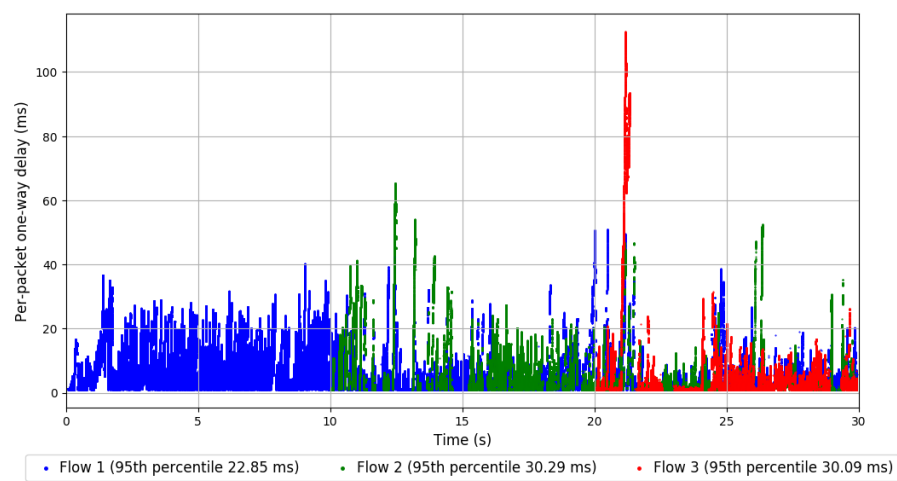
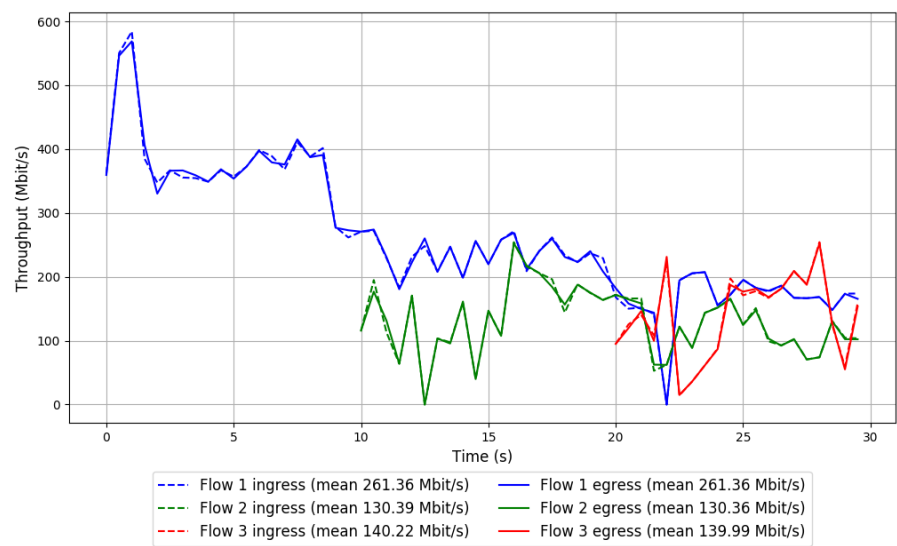
-- Flow 3:

Average throughput: 139.99 Mbit/s

95th percentile per-packet one-way delay: 30.092 ms

Loss rate: 0.35%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: Tue, 01 Aug 2017 06:03:08 +0000

End at: Tue, 01 Aug 2017 06:03:38 +0000

Local clock offset: 0.149 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:28:57 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.08 Mbit/s

95th percentile per-packet one-way delay: 39.676 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 258.11 Mbit/s

95th percentile per-packet one-way delay: 41.082 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 133.37 Mbit/s

95th percentile per-packet one-way delay: 36.289 ms

Loss rate: 0.14%

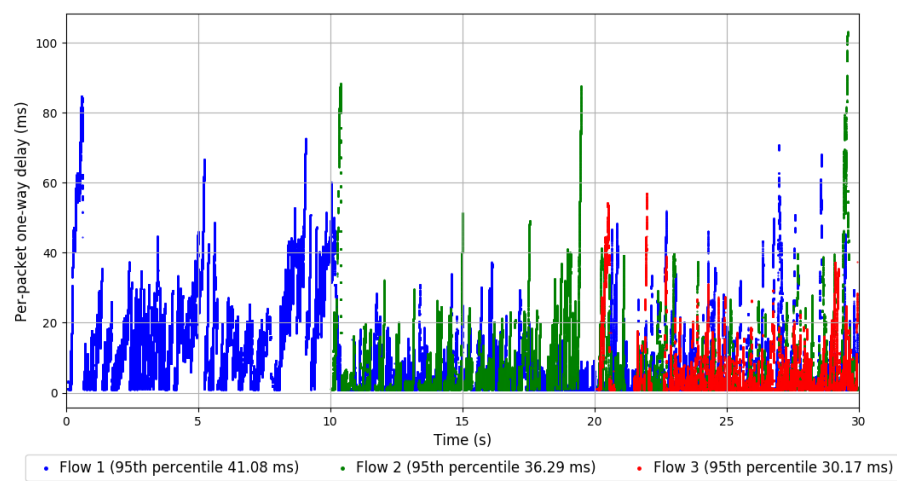
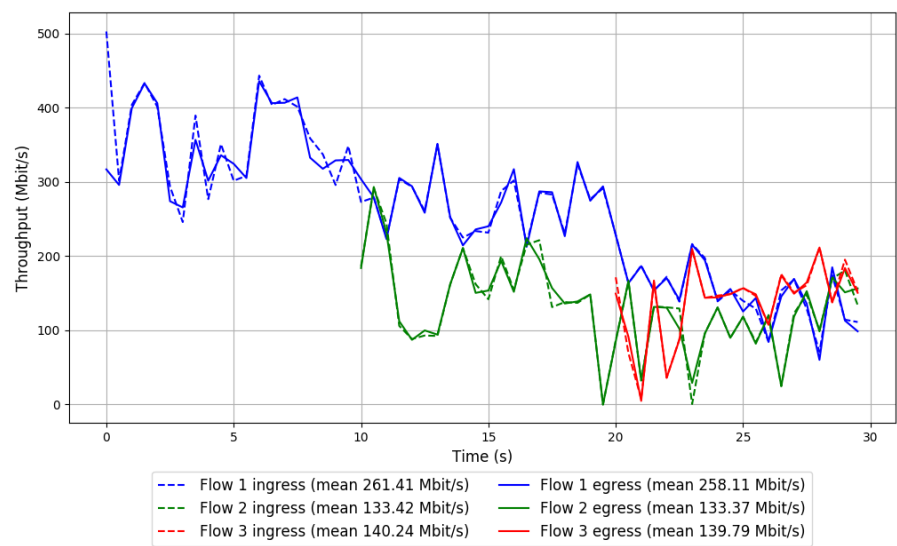
-- Flow 3:

Average throughput: 139.79 Mbit/s

95th percentile per-packet one-way delay: 30.168 ms

Loss rate: 0.48%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: Tue, 01 Aug 2017 06:25:45 +0000

End at: Tue, 01 Aug 2017 06:26:15 +0000

Local clock offset: 0.541 ms

Remote clock offset: -0.353 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:30 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.05 Mbit/s

95th percentile per-packet one-way delay: 51.484 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 278.87 Mbit/s

95th percentile per-packet one-way delay: 56.423 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 132.33 Mbit/s

95th percentile per-packet one-way delay: 38.107 ms

Loss rate: 0.47%

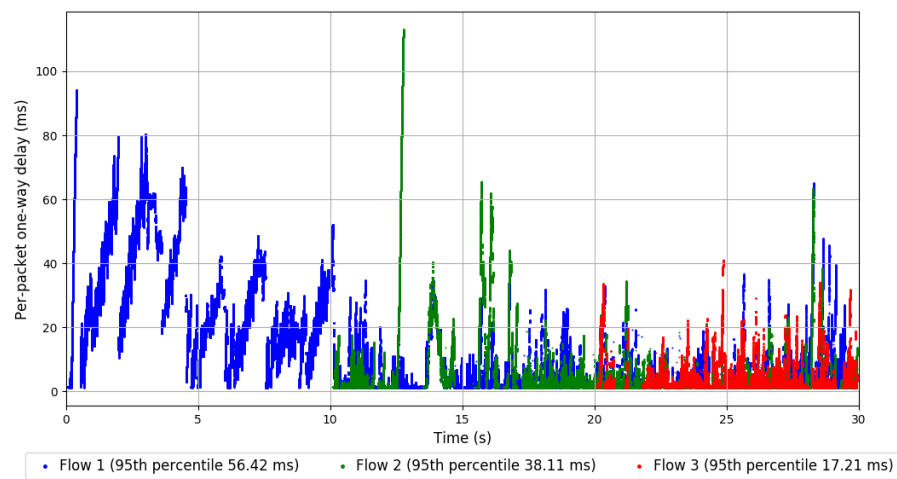
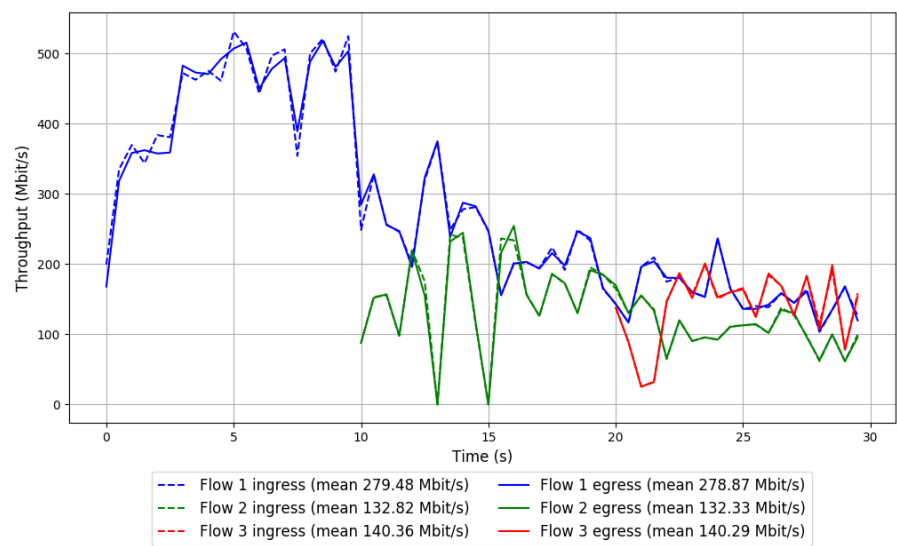
-- Flow 3:

Average throughput: 140.29 Mbit/s

95th percentile per-packet one-way delay: 17.215 ms

Loss rate: 0.18%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: Tue, 01 Aug 2017 06:48:12 +0000

End at: Tue, 01 Aug 2017 06:48:42 +0000

Local clock offset: 0.747 ms

Remote clock offset: -0.138 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 436.63 Mbit/s

95th percentile per-packet one-way delay: 34.891 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 244.68 Mbit/s

95th percentile per-packet one-way delay: 41.609 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 209.17 Mbit/s

95th percentile per-packet one-way delay: 27.219 ms

Loss rate: 0.09%

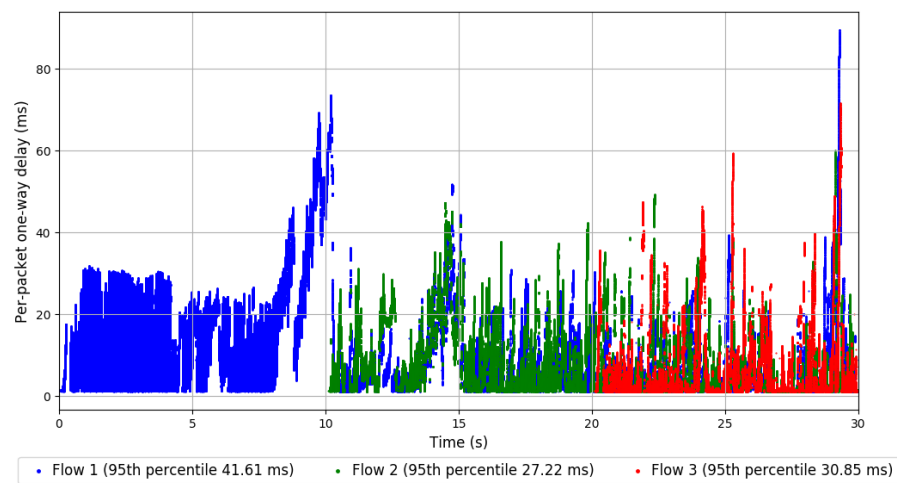
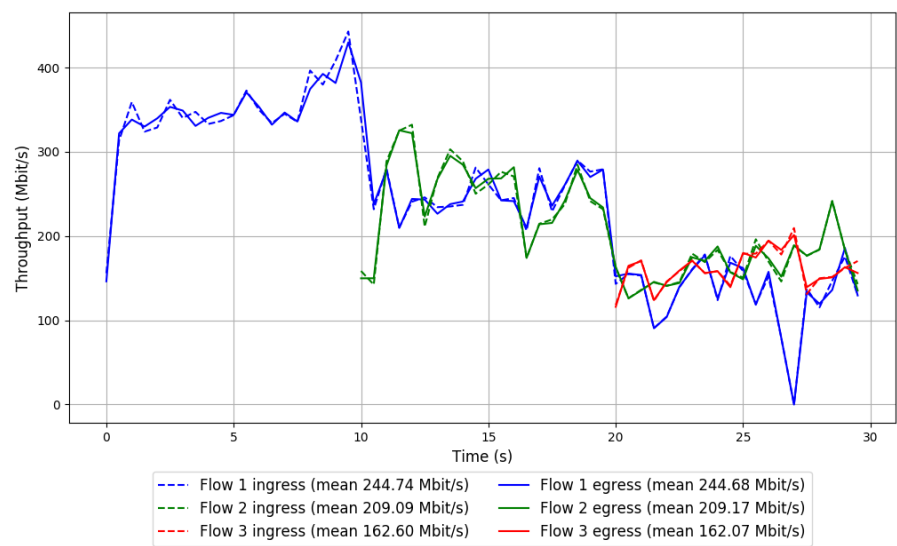
-- Flow 3:

Average throughput: 162.07 Mbit/s

95th percentile per-packet one-way delay: 30.850 ms

Loss rate: 0.46%

Run 10: Report of Verus — Data Link



Run 1: Statistics of WebRTC media

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

End at: Tue, 01 Aug 2017 03:06:31 +0000

Local clock offset: 0.08 ms

Remote clock offset: -1.286 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 1.869 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 1.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 2.118 ms

Loss rate: 0.25%

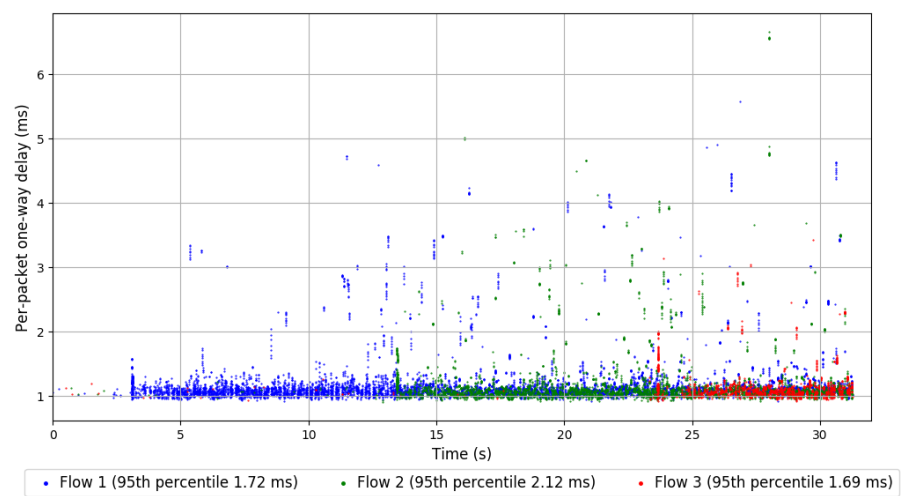
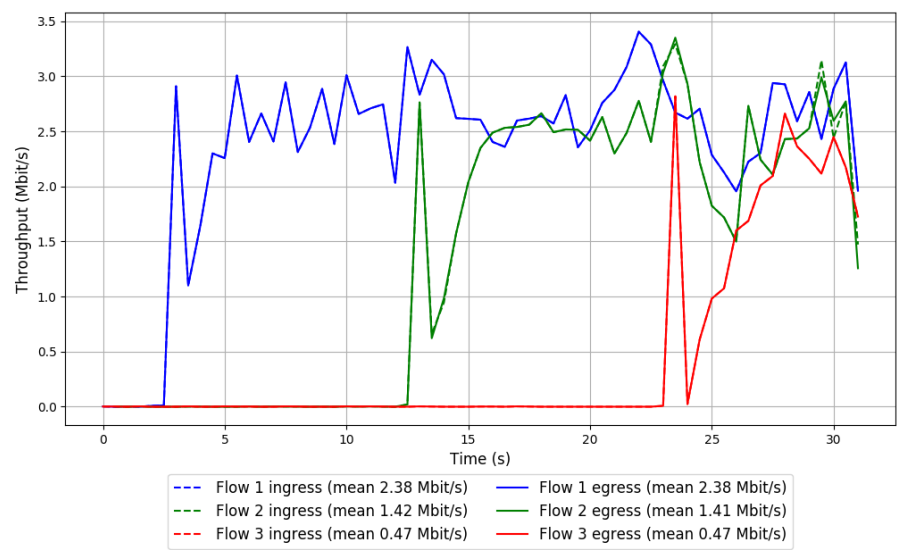
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 1.688 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 03:28:21 +0000

End at: Tue, 01 Aug 2017 03:28:51 +0000

Local clock offset: -0.012 ms

Remote clock offset: -0.899 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 2.055 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.049 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 1.824 ms

Loss rate: 0.00%

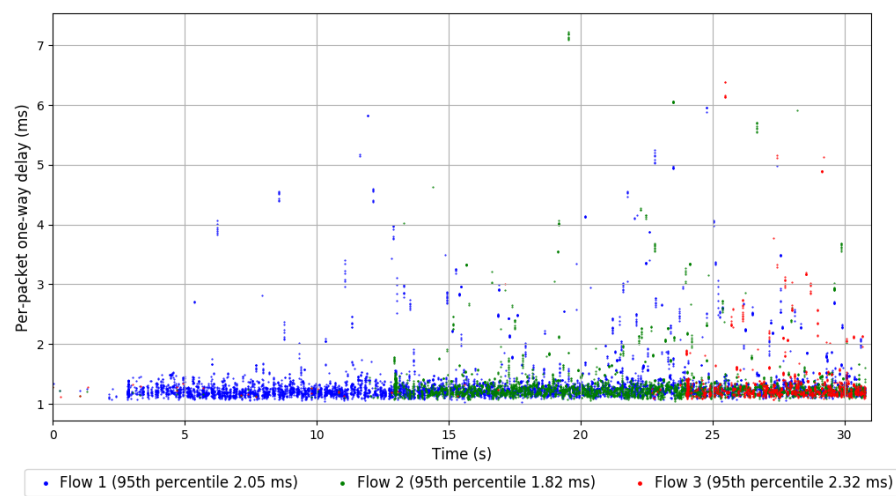
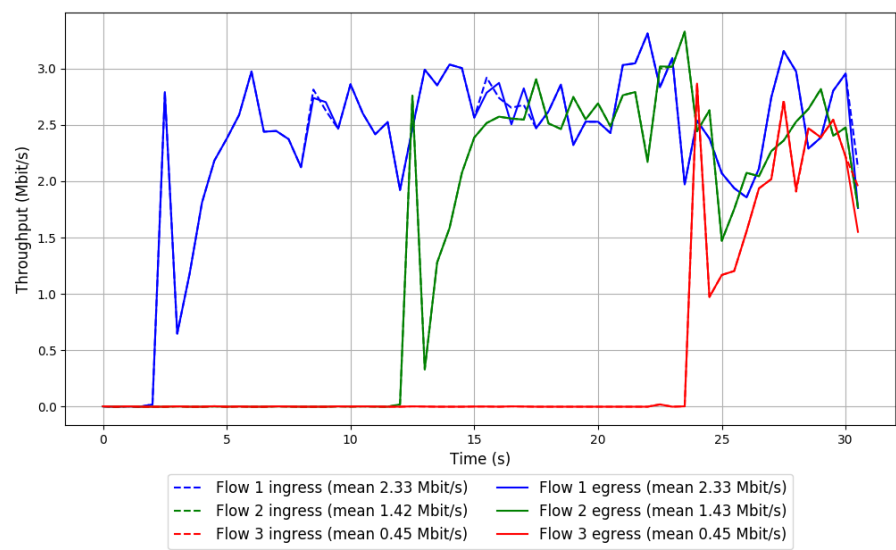
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 2.321 ms

Loss rate: 1.45%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 03:50:49 +0000

End at: Tue, 01 Aug 2017 03:51:19 +0000

Local clock offset: -0.065 ms

Remote clock offset: -0.952 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 1.599 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 1.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 1.656 ms

Loss rate: 0.37%

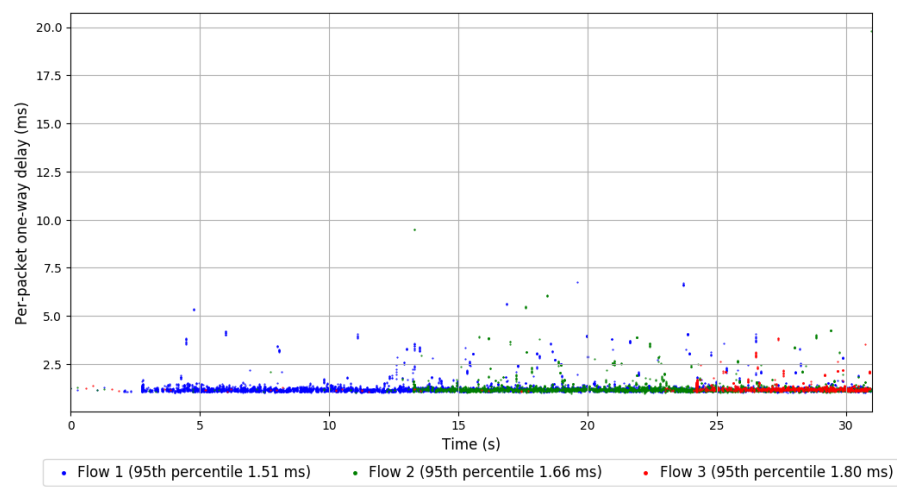
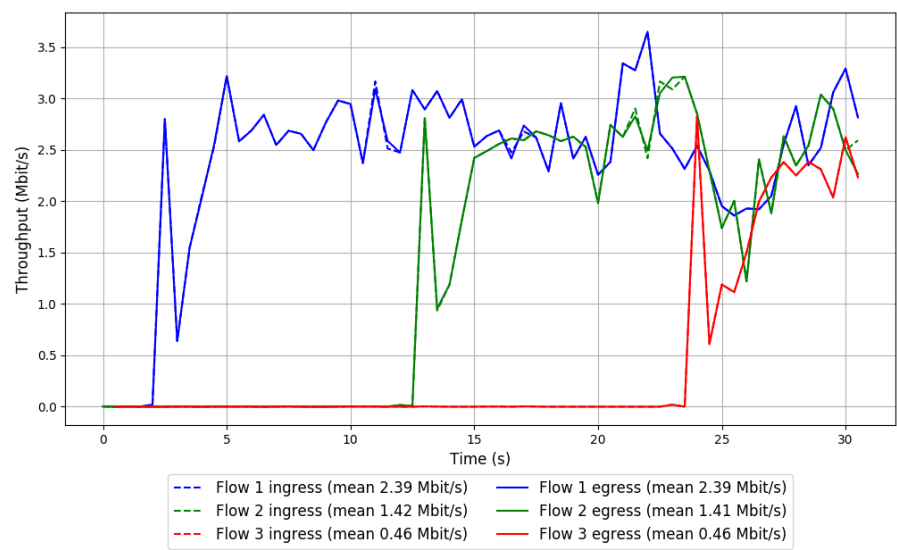
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 1.798 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 04:13:38 +0000

End at: Tue, 01 Aug 2017 04:14:08 +0000

Local clock offset: -0.044 ms

Remote clock offset: -1.216 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 2.005 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 2.052 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 1.961 ms

Loss rate: 0.07%

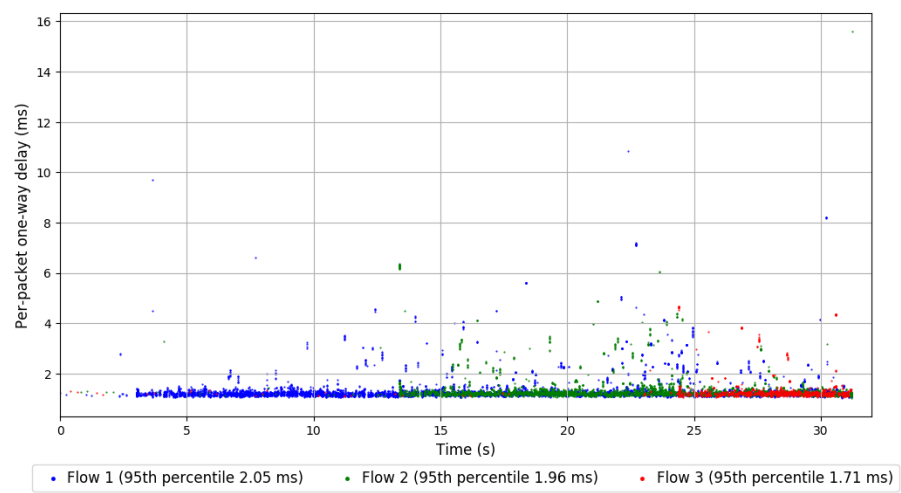
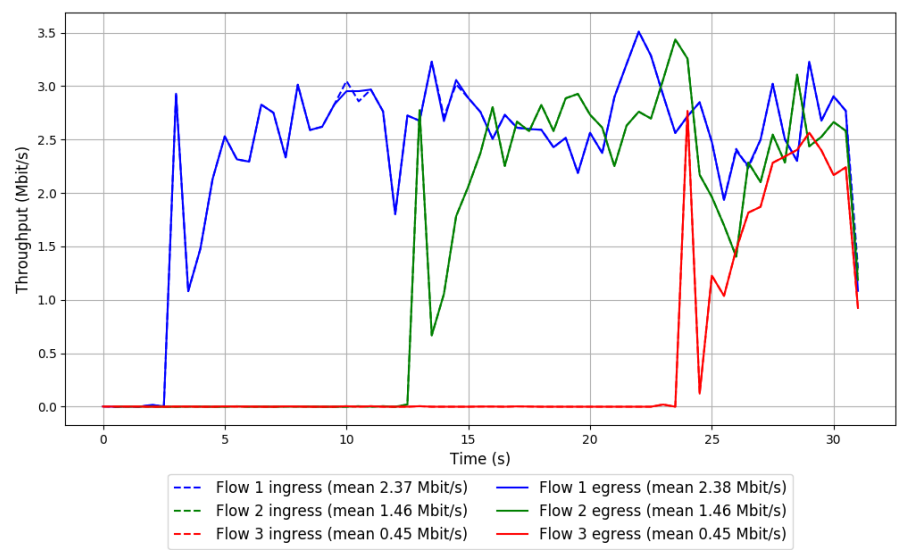
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 1.707 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 04:36:17 +0000

End at: Tue, 01 Aug 2017 04:36:47 +0000

Local clock offset: -0.246 ms

Remote clock offset: -1.01 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 1.939 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 1.885 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 1.844 ms

Loss rate: 0.23%

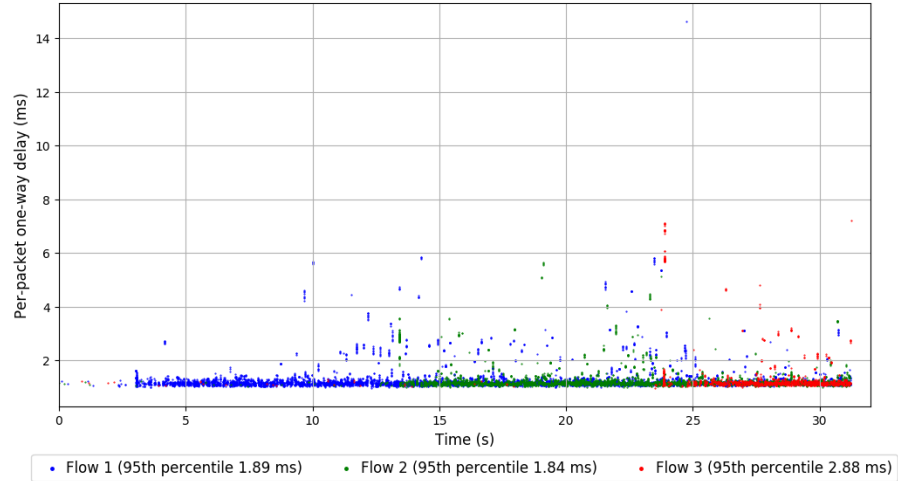
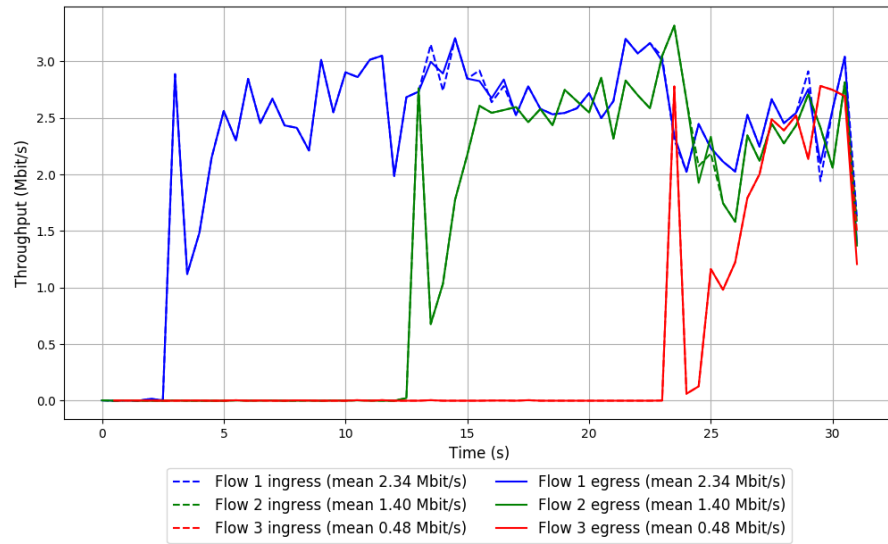
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 2.880 ms

Loss rate: 0.98%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

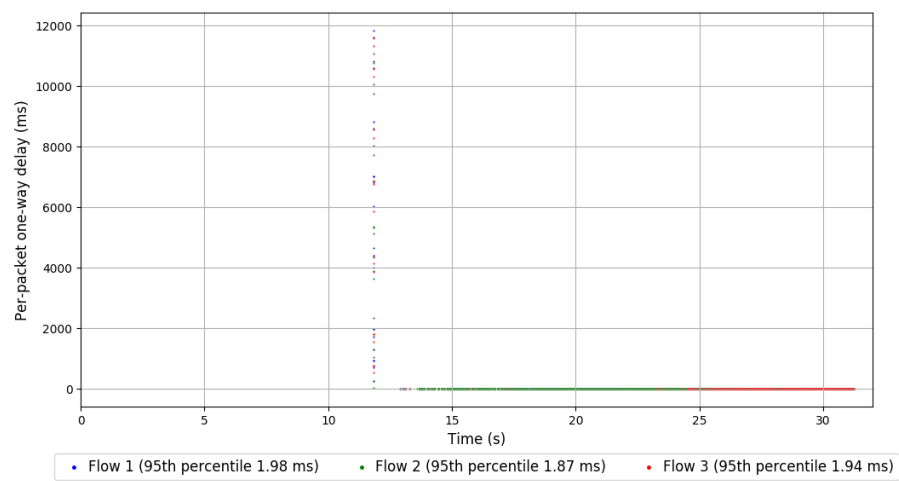
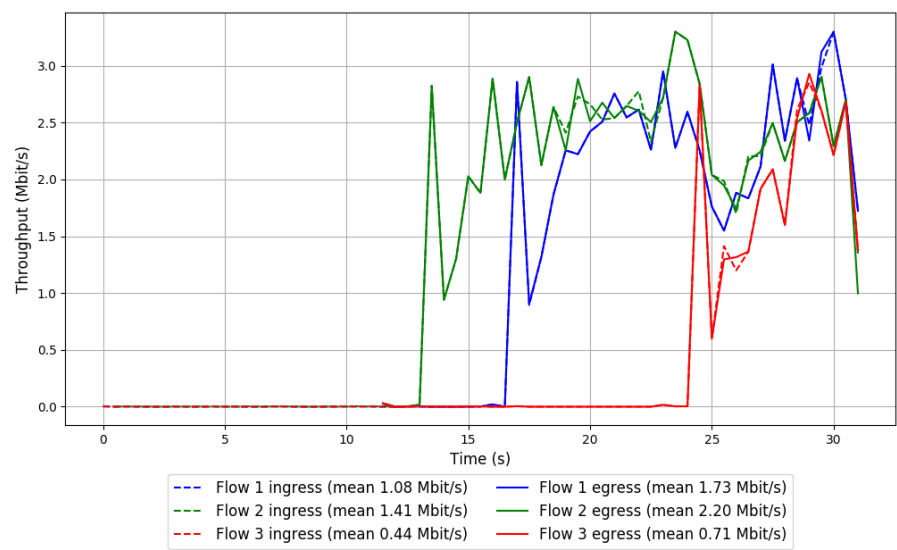
Start at: Tue, 01 Aug 2017 04:58:36 +0000

End at: Tue, 01 Aug 2017 04:59:06 +0000

Local clock offset: -0.229 ms

Remote clock offset: -1.15 ms

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 05:21:13 +0000

End at: Tue, 01 Aug 2017 05:21:43 +0000

Local clock offset: -0.278 ms

Remote clock offset: -1.019 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 1.702 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 1.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 2.031 ms

Loss rate: 0.00%

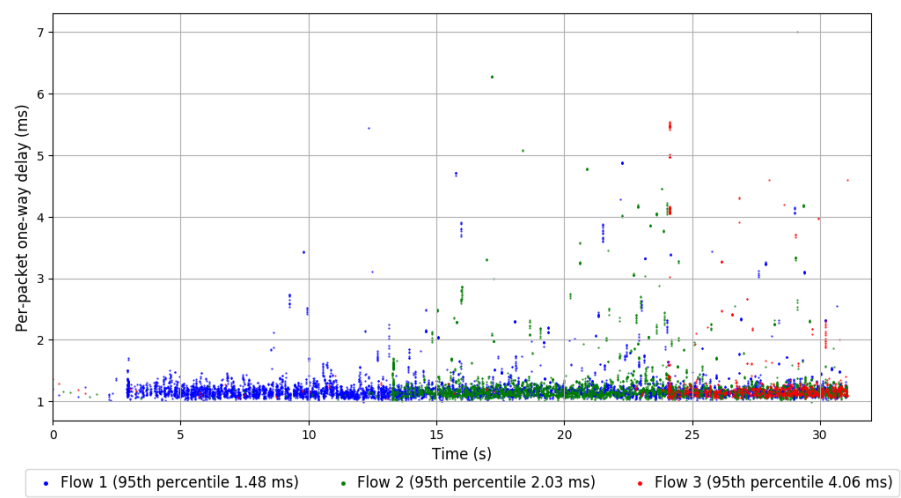
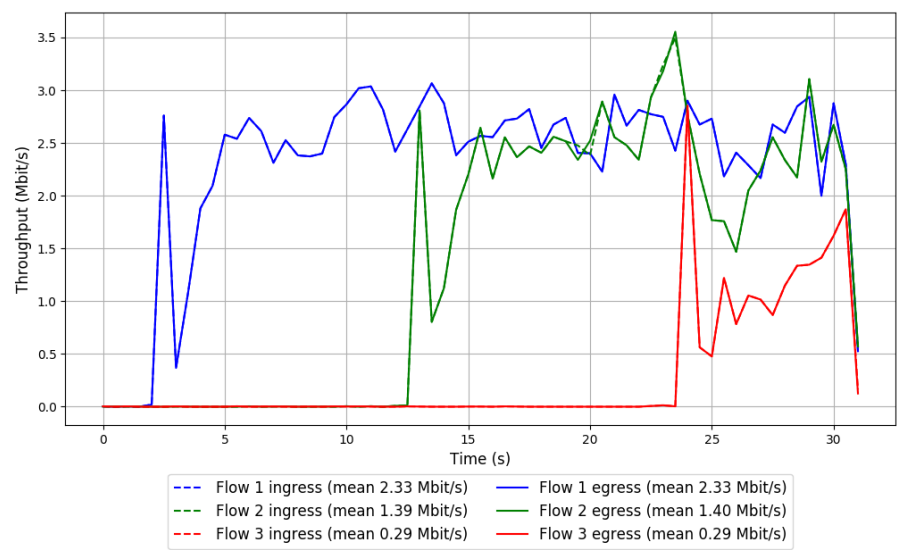
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 4.057 ms

Loss rate: 0.21%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 05:43:42 +0000

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

Local clock offset: -0.074 ms

Remote clock offset: -0.657 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 1.854 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 1.680 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 2.183 ms

Loss rate: 0.02%

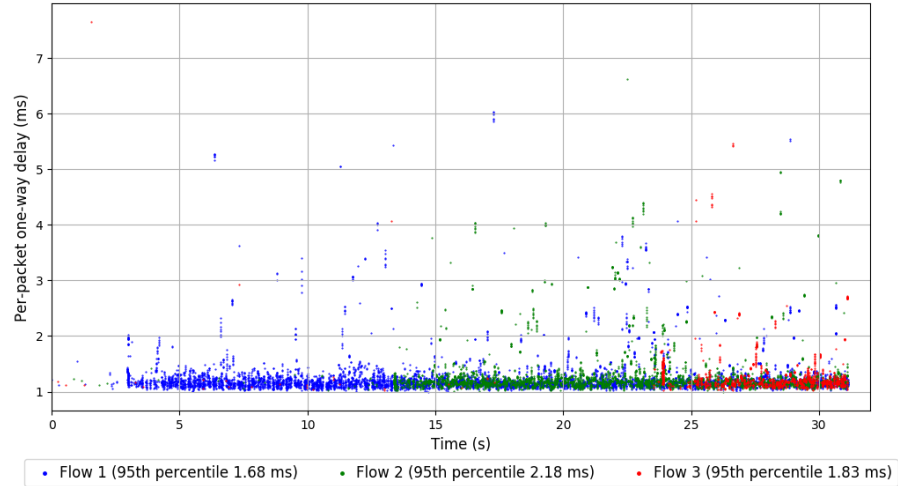
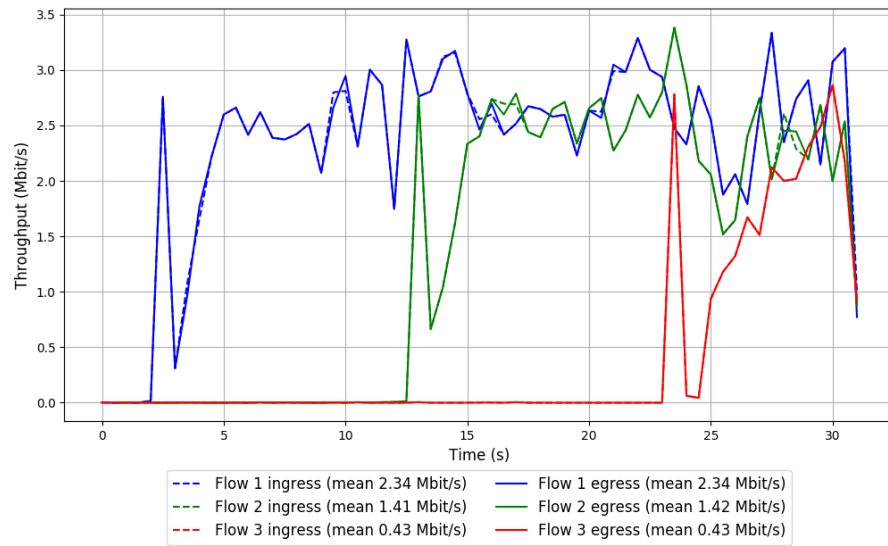
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.826 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

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

Local clock offset: 0.185 ms

Remote clock offset: -0.367 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 1.861 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 1.871 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 1.722 ms

Loss rate: 0.00%

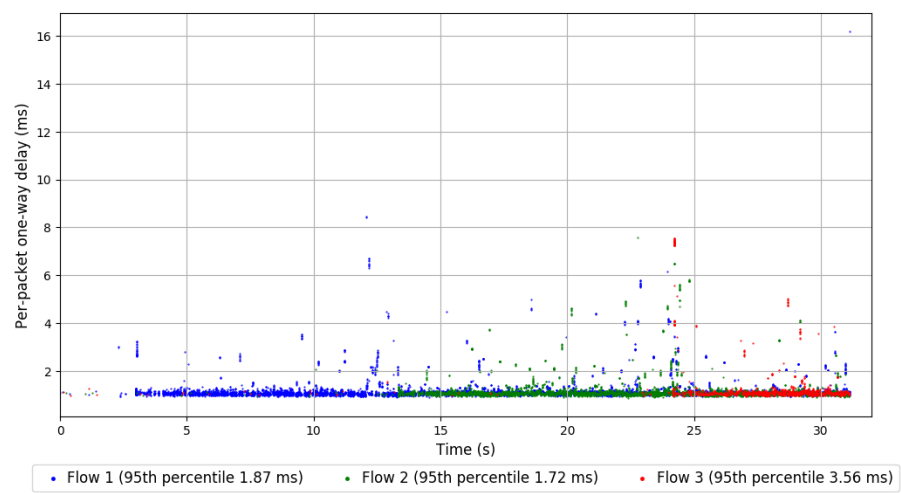
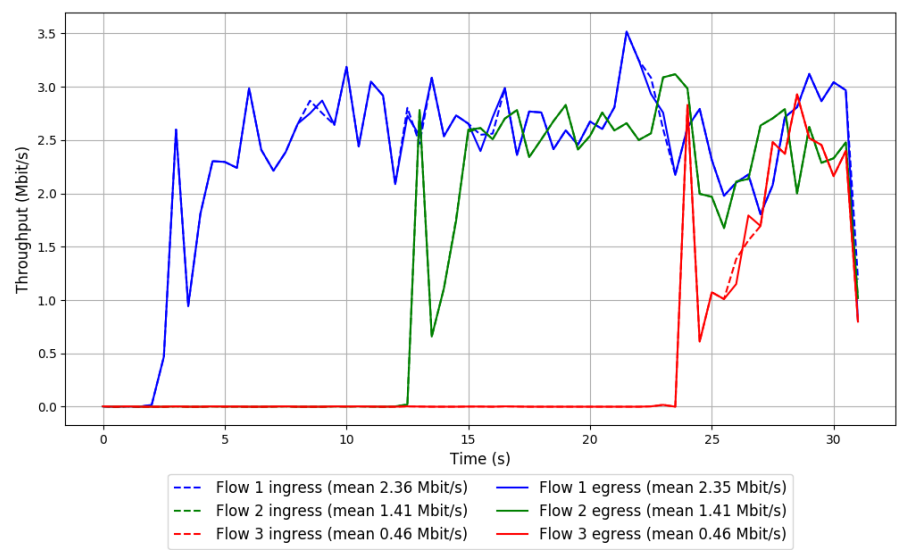
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 3.563 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: Tue, 01 Aug 2017 06:28:46 +0000

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

Local clock offset: 0.568 ms

Remote clock offset: -0.313 ms

Below is generated by plot.py at Tue, 01 Aug 2017 10:29:55 +0000

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 1.916 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 1.730 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 1.916 ms

Loss rate: 0.66%

-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 2.076 ms

Loss rate: 0.75%

Run 10: Report of WebRTC media — Data Link

