

Pantheon Report

Generated at 2018-01-02 21:38:52 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE London Ethernet (*local*).

Repeated the test of 14 congestion control schemes 10 times.

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

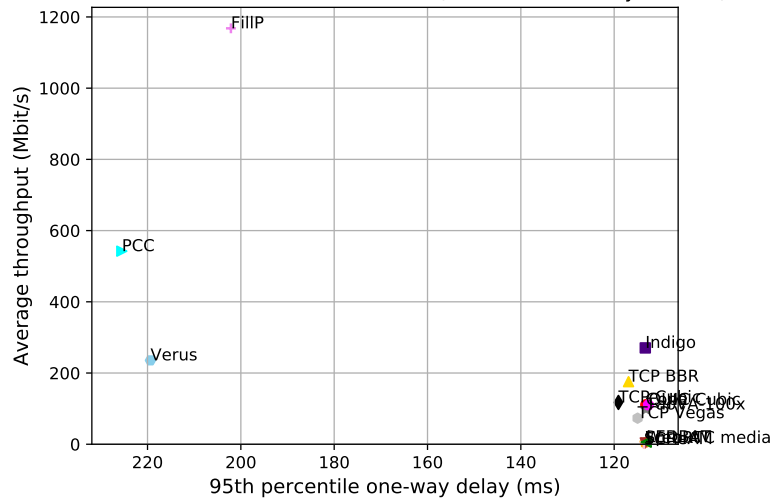
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

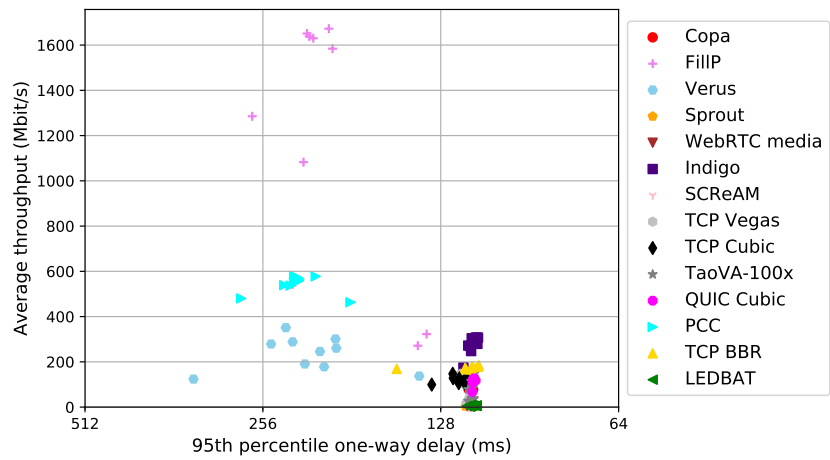
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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 GCE Tokyo Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo Ethernet to GCE London 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	91.09	88.56	79.94	114.77	116.27	124.87	0.95	1.28	3.05
TCP Cubic	10	61.56	54.59	60.46	118.22	119.31	119.23	1.33	1.27	2.37
LEDBAT	10	3.44	2.58	1.69	113.20	112.96	112.77	1.98	2.32	4.71
PCC	10	478.97	76.92	38.40	225.40	217.20	221.45	2.90	2.11	3.58
QUIC Cubic	7	58.35	55.35	44.96	111.80	111.71	112.03	0.93	0.79	2.73
SCReAM	10	0.20	0.20	0.21	112.94	112.22	112.74	0.67	1.09	2.01
WebRTC media	10	2.04	1.24	0.41	111.58	112.56	112.74	1.06	1.56	5.04
Sprout	10	2.47	2.11	1.80	113.34	113.42	113.74	1.02	1.88	3.71
TaoVA-100x	10	24.31	98.51	37.76	113.04	112.73	113.03	0.84	1.29	2.73
TCP Vegas	9	29.04	47.22	37.74	115.04	114.37	116.45	1.09	1.63	2.54
Verus	10	126.20	126.65	72.14	220.53	205.83	187.00	3.02	3.03	4.82
Copa	10	66.81	50.96	40.79	113.31	114.72	113.47	0.68	5.70	9.49
FillP	10	609.59	565.25	564.12	178.88	216.76	223.81	2.95	5.70	5.39
Indigo	8	144.88	133.31	113.26	112.89	113.26	114.48	0.76	1.19	2.94

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 15:36:54

End at: 2018-01-02 15:37:24

Below is generated by plot.py at 2018-01-02 20:38:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.80 Mbit/s

95th percentile per-packet one-way delay: 110.902 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 91.69 Mbit/s

95th percentile per-packet one-way delay: 110.916 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 89.18 Mbit/s

95th percentile per-packet one-way delay: 110.917 ms

Loss rate: 1.32%

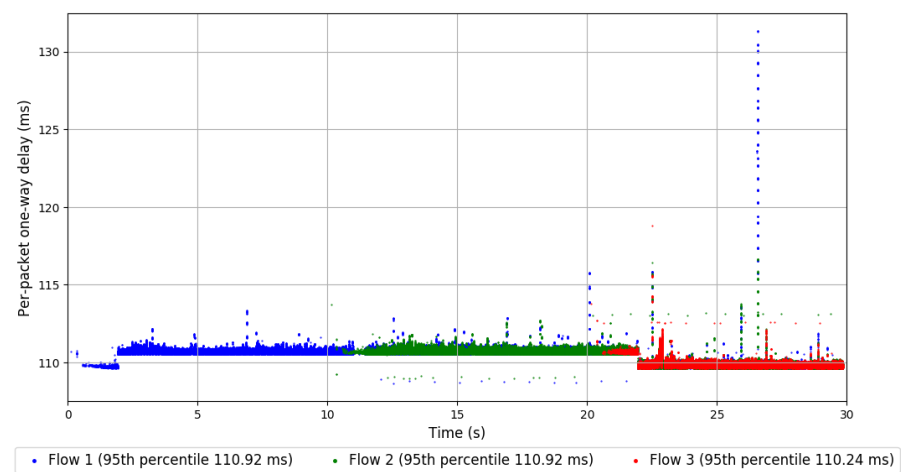
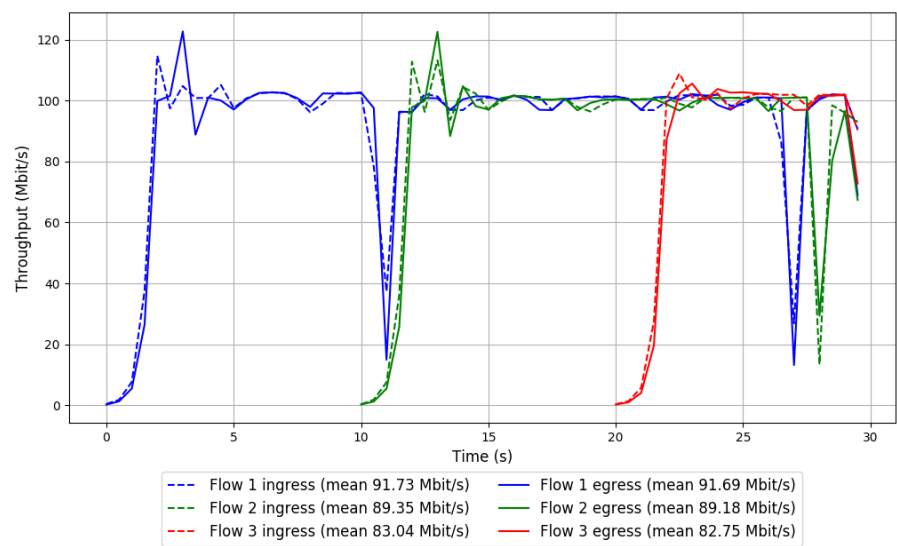
-- Flow 3:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 110.242 ms

Loss rate: 2.64%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 15:52:35

End at: 2018-01-02 15:53:05

Below is generated by plot.py at 2018-01-02 20:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.38 Mbit/s

95th percentile per-packet one-way delay: 110.374 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 110.337 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 110.220 ms

Loss rate: 1.30%

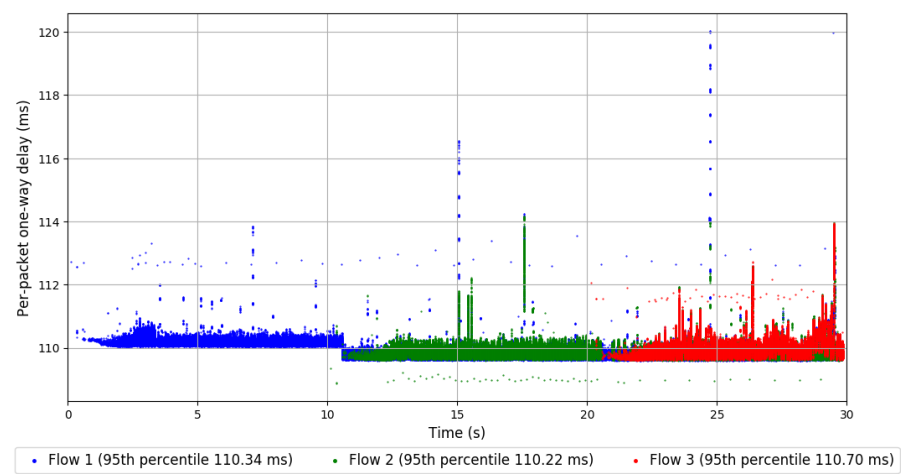
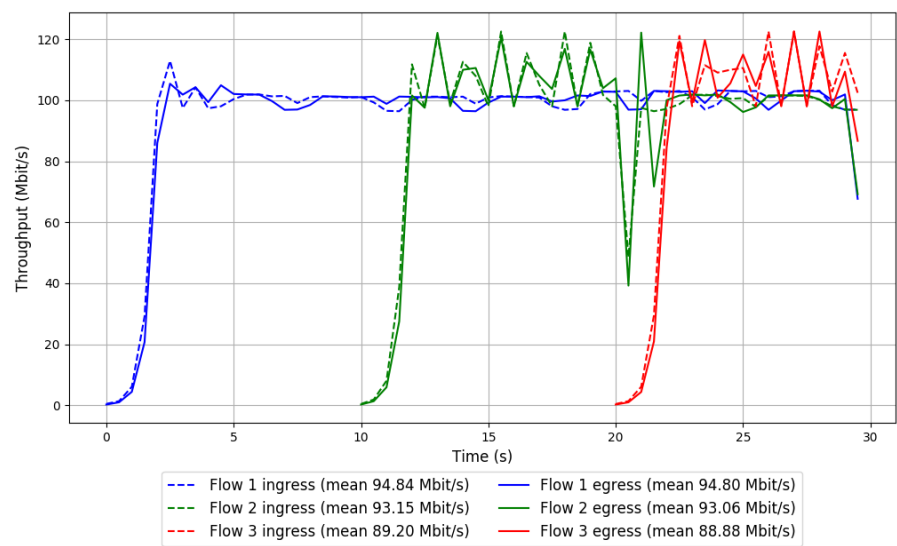
-- Flow 3:

Average throughput: 88.88 Mbit/s

95th percentile per-packet one-way delay: 110.705 ms

Loss rate: 2.62%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 16:07:49

End at: 2018-01-02 16:08:19

Below is generated by plot.py at 2018-01-02 20:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.30 Mbit/s

95th percentile per-packet one-way delay: 110.590 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 91.30 Mbit/s

95th percentile per-packet one-way delay: 110.541 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 110.613 ms

Loss rate: 0.48%

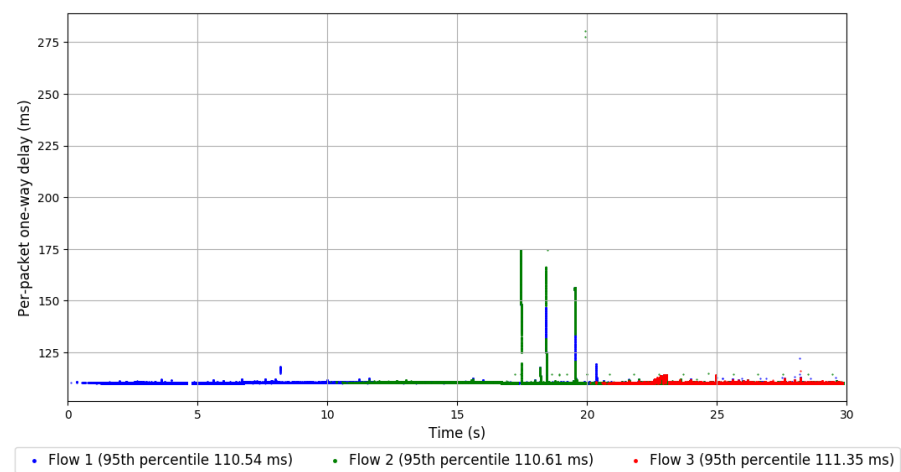
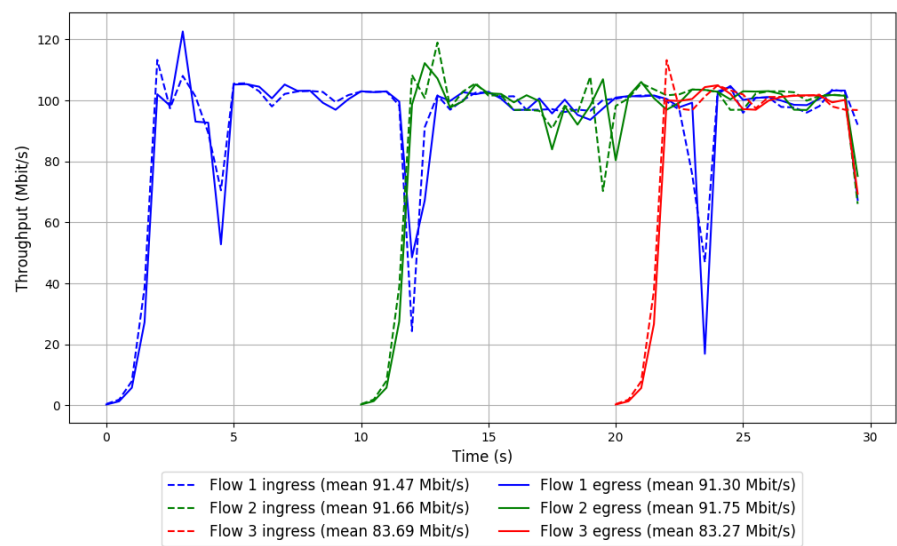
-- Flow 3:

Average throughput: 83.27 Mbit/s

95th percentile per-packet one-way delay: 111.352 ms

Loss rate: 2.91%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 16:23:00

End at: 2018-01-02 16:23:30

Below is generated by plot.py at 2018-01-02 20:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.91 Mbit/s

95th percentile per-packet one-way delay: 116.366 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 113.672 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 86.08 Mbit/s

95th percentile per-packet one-way delay: 118.358 ms

Loss rate: 0.99%

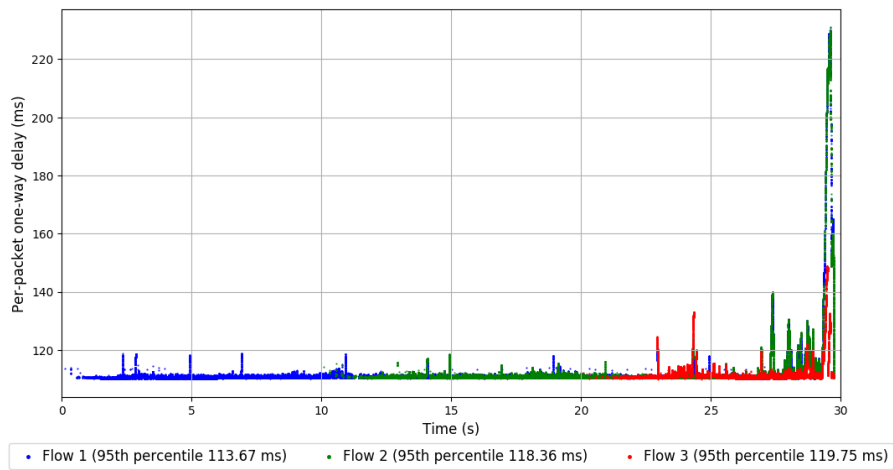
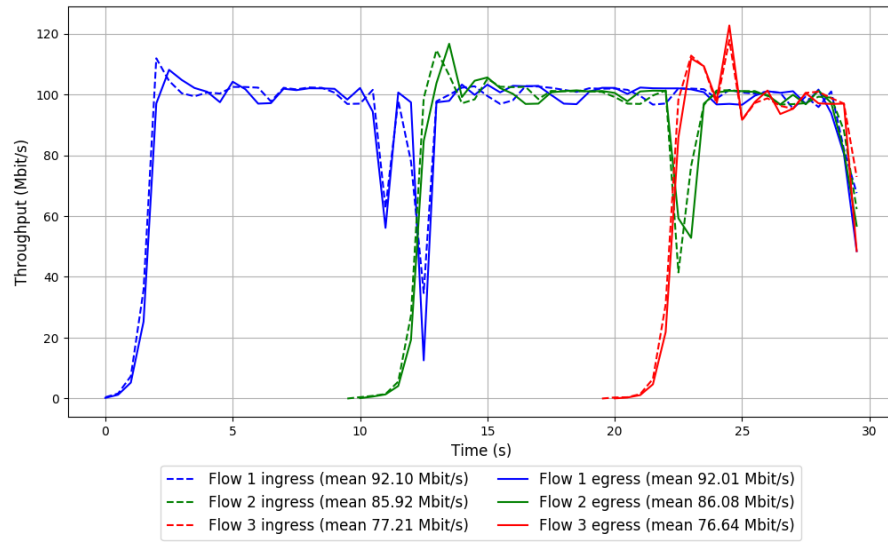
-- Flow 3:

Average throughput: 76.64 Mbit/s

95th percentile per-packet one-way delay: 119.745 ms

Loss rate: 3.20%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 16:36:54

End at: 2018-01-02 16:37:24

Below is generated by plot.py at 2018-01-02 20:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.00 Mbit/s

95th percentile per-packet one-way delay: 151.966 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 89.92 Mbit/s

95th percentile per-packet one-way delay: 133.221 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 145.747 ms

Loss rate: 1.24%

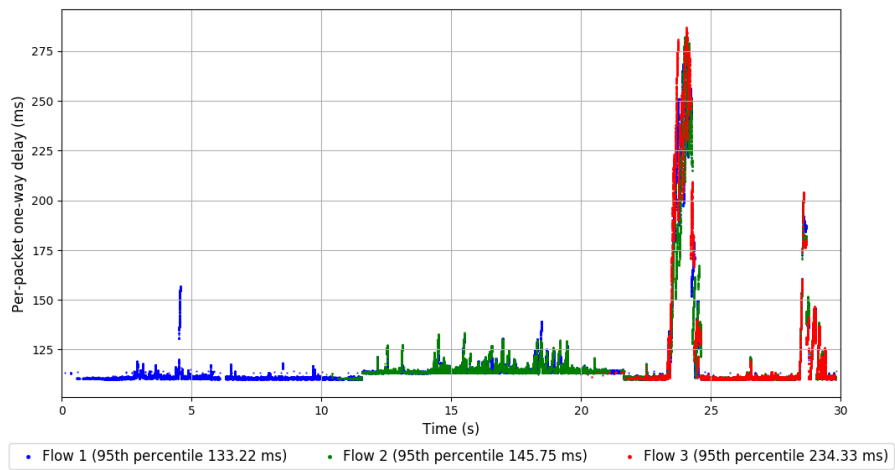
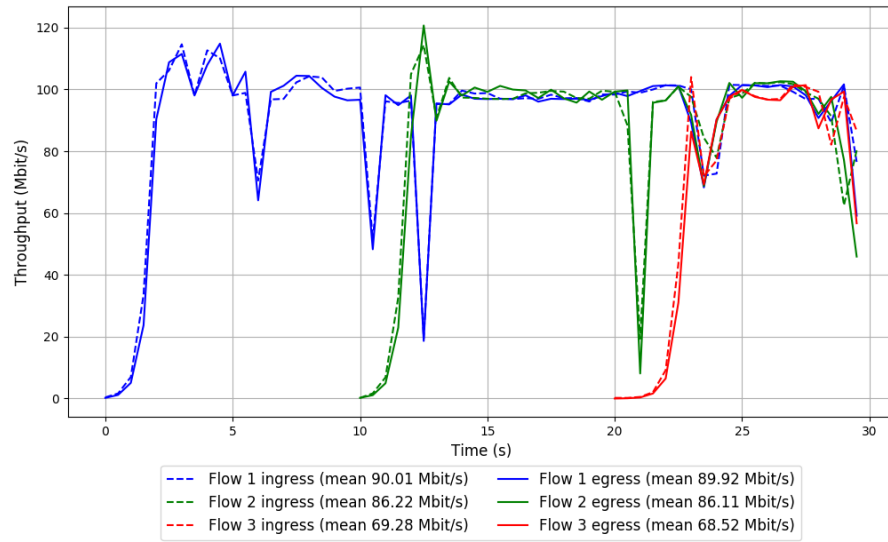
-- Flow 3:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 234.332 ms

Loss rate: 3.57%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 16:51:24

End at: 2018-01-02 16:51:54

Below is generated by plot.py at 2018-01-02 20:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.40 Mbit/s

95th percentile per-packet one-way delay: 115.949 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 85.76 Mbit/s

95th percentile per-packet one-way delay: 115.853 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 116.495 ms

Loss rate: 1.91%

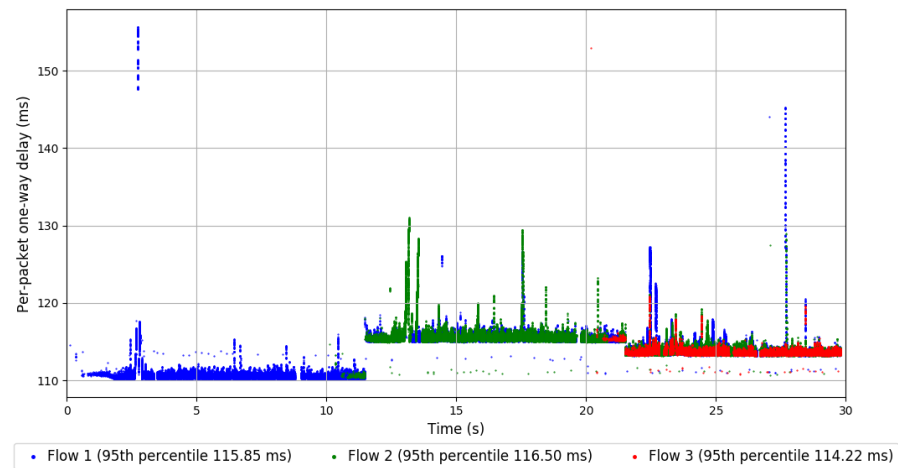
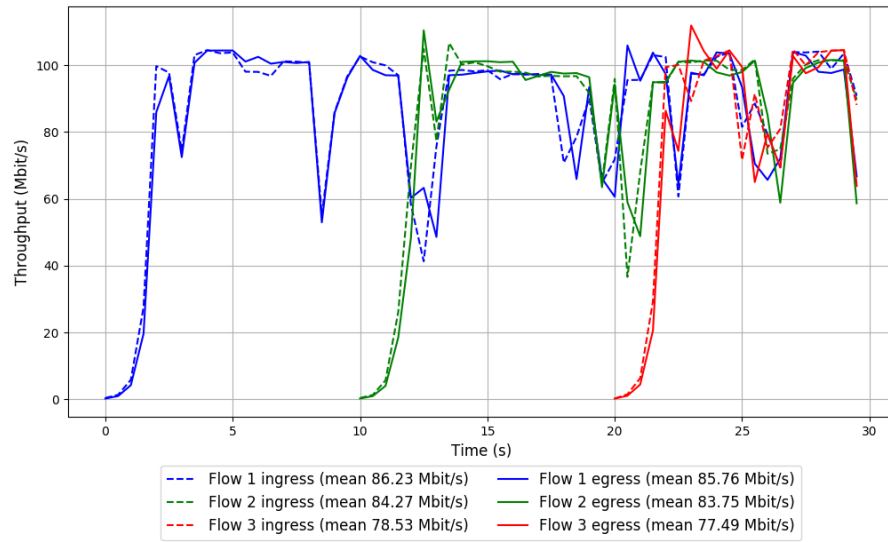
-- Flow 3:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 114.219 ms

Loss rate: 4.31%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 17:06:07

End at: 2018-01-02 17:06:37

Below is generated by plot.py at 2018-01-02 20:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.47 Mbit/s

95th percentile per-packet one-way delay: 113.447 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 113.524 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 90.26 Mbit/s

95th percentile per-packet one-way delay: 113.378 ms

Loss rate: 1.25%

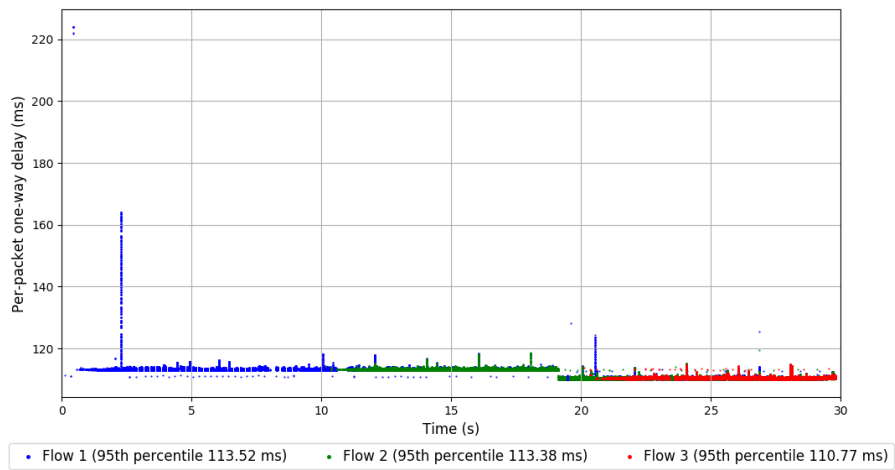
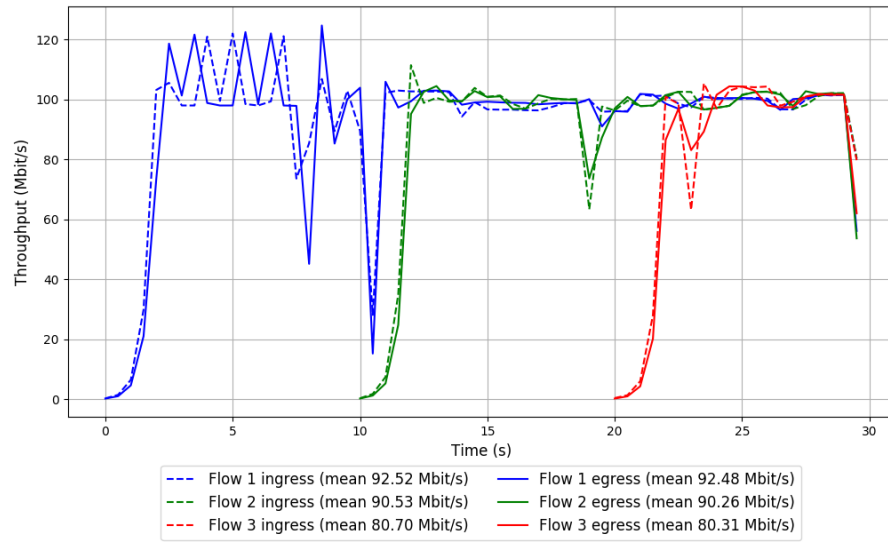
-- Flow 3:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 110.766 ms

Loss rate: 2.75%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 17:20:27

End at: 2018-01-02 17:20:57

Below is generated by plot.py at 2018-01-02 20:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.72 Mbit/s

95th percentile per-packet one-way delay: 113.686 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 89.95 Mbit/s

95th percentile per-packet one-way delay: 113.646 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 86.35 Mbit/s

95th percentile per-packet one-way delay: 113.662 ms

Loss rate: 1.60%

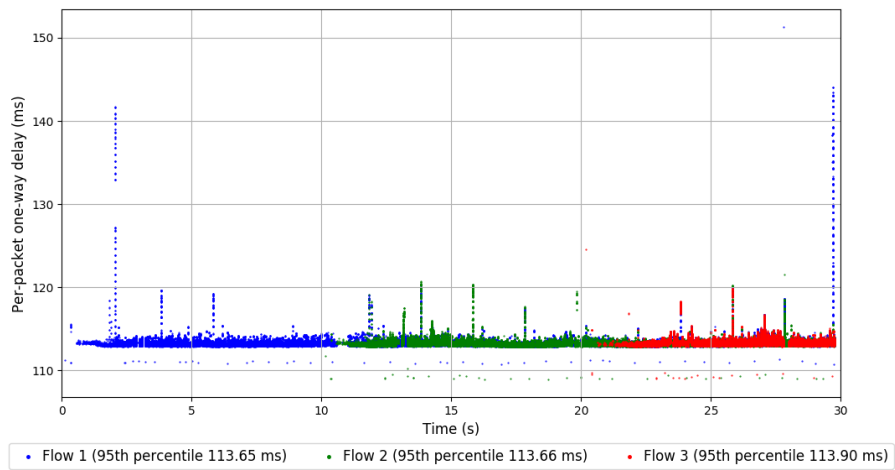
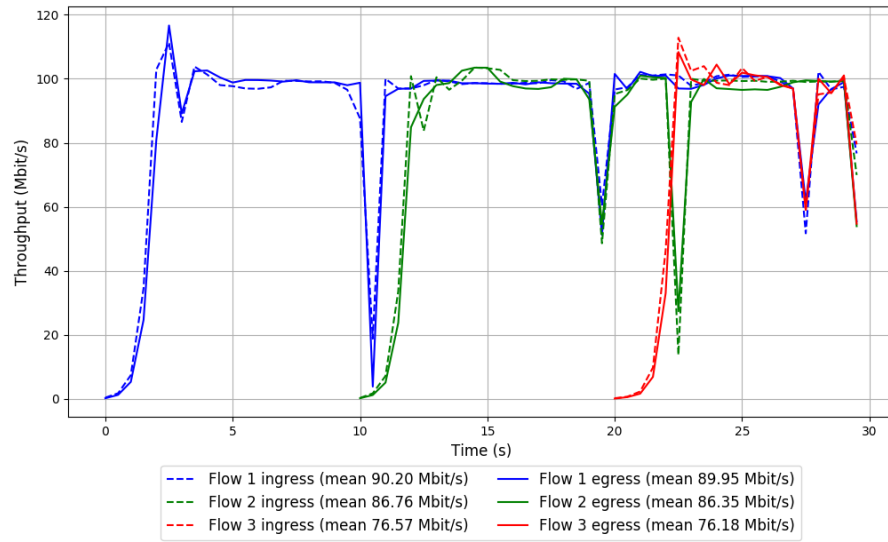
-- Flow 3:

Average throughput: 76.18 Mbit/s

95th percentile per-packet one-way delay: 113.901 ms

Loss rate: 2.92%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 17:35:45

End at: 2018-01-02 17:36:15

Below is generated by plot.py at 2018-01-02 20:41:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.66 Mbit/s

95th percentile per-packet one-way delay: 112.929 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 112.972 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 90.07 Mbit/s

95th percentile per-packet one-way delay: 110.326 ms

Loss rate: 1.31%

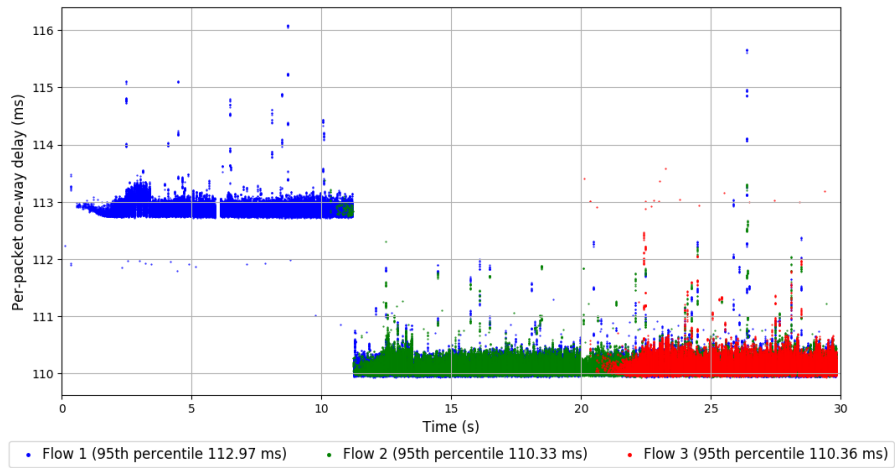
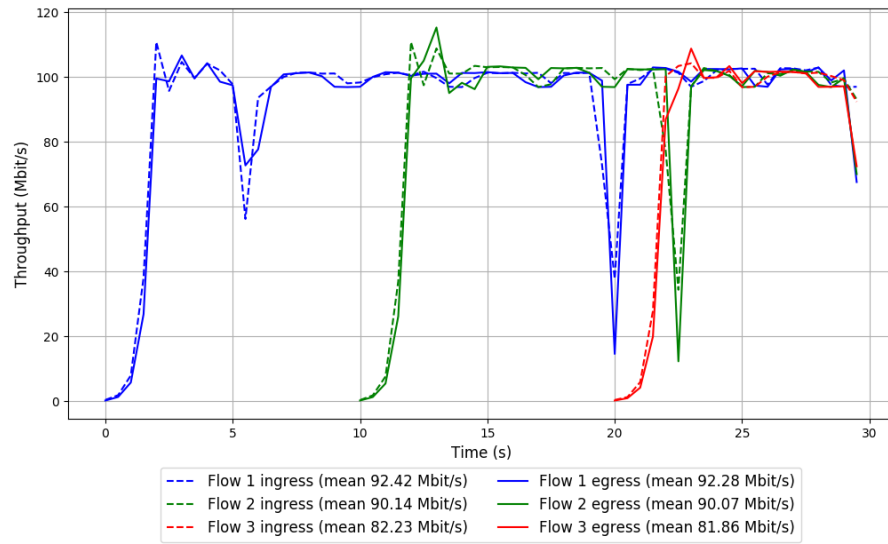
-- Flow 3:

Average throughput: 81.86 Mbit/s

95th percentile per-packet one-way delay: 110.364 ms

Loss rate: 2.81%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 17:51:11

End at: 2018-01-02 17:51:41

Below is generated by plot.py at 2018-01-02 20:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.89 Mbit/s

95th percentile per-packet one-way delay: 113.014 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 90.73 Mbit/s

95th percentile per-packet one-way delay: 112.989 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 88.95 Mbit/s

95th percentile per-packet one-way delay: 112.996 ms

Loss rate: 1.36%

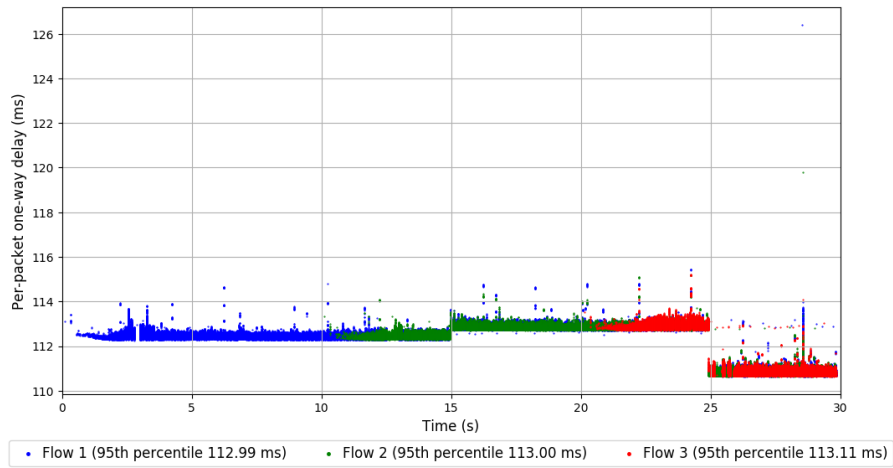
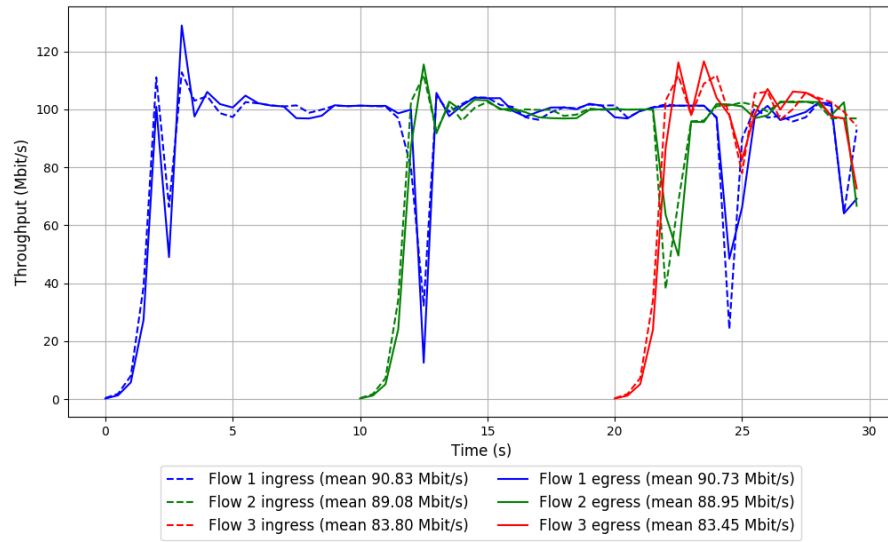
-- Flow 3:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 113.112 ms

Loss rate: 2.75%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 15:35:13

End at: 2018-01-02 15:35:43

Below is generated by plot.py at 2018-01-02 20:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 118.996 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 119.604 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 56.85 Mbit/s

95th percentile per-packet one-way delay: 116.704 ms

Loss rate: 1.03%

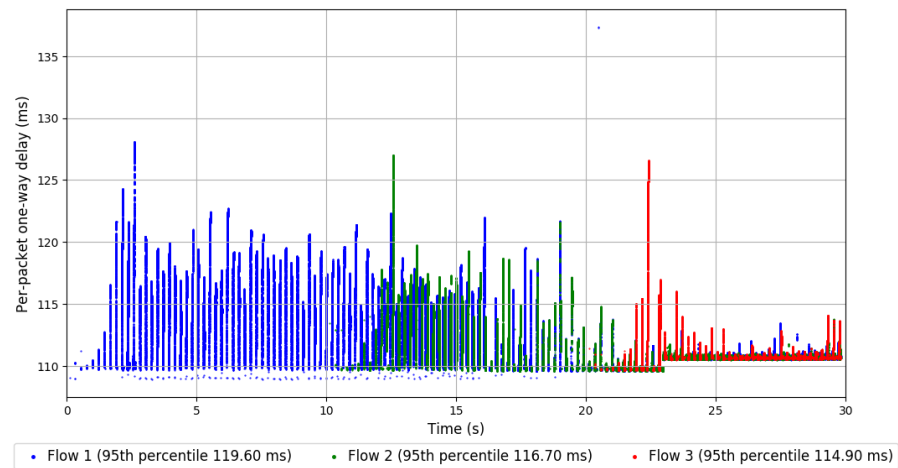
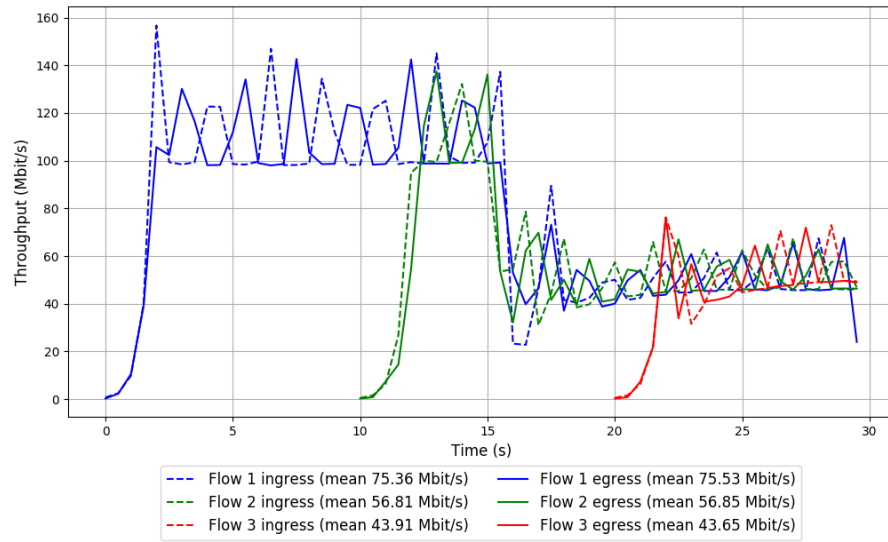
-- Flow 3:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 114.896 ms

Loss rate: 2.85%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 15:50:54

End at: 2018-01-02 15:51:24

Below is generated by plot.py at 2018-01-02 20:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.45 Mbit/s

95th percentile per-packet one-way delay: 116.360 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 59.13 Mbit/s

95th percentile per-packet one-way delay: 117.722 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 52.91 Mbit/s

95th percentile per-packet one-way delay: 113.796 ms

Loss rate: 1.19%

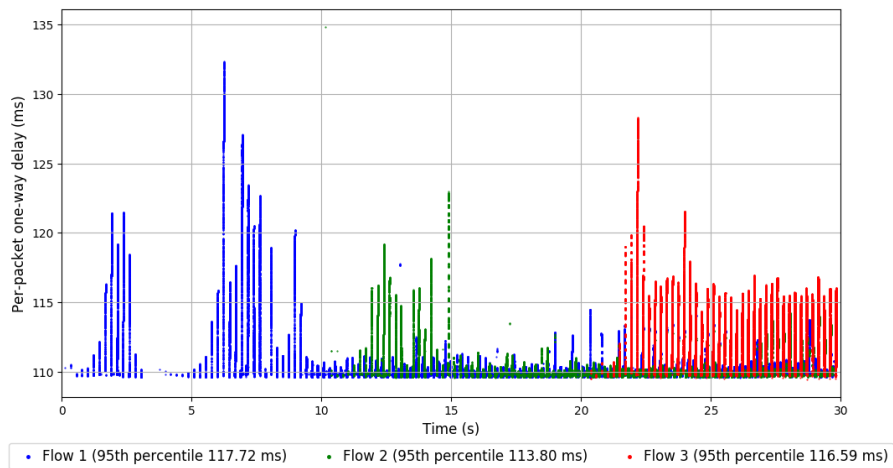
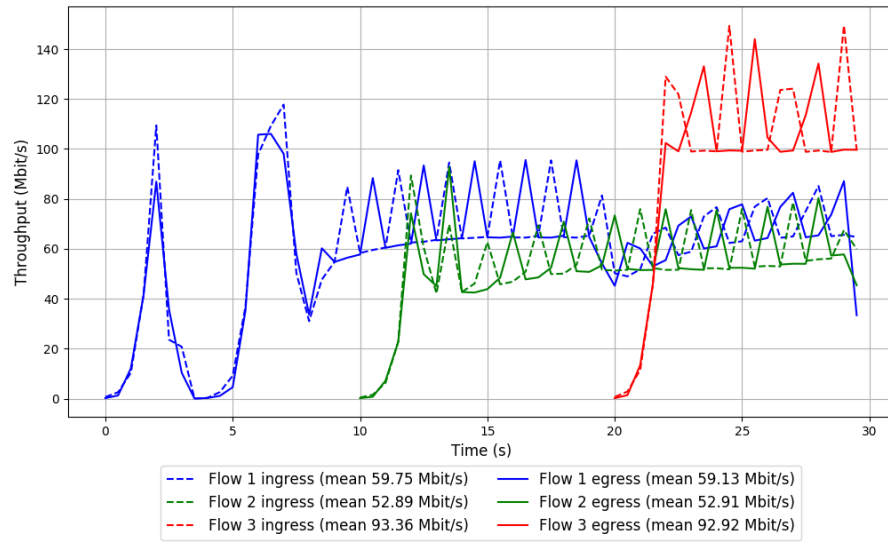
-- Flow 3:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 116.595 ms

Loss rate: 2.68%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 16:06:10

End at: 2018-01-02 16:06:40

Below is generated by plot.py at 2018-01-02 20:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.14 Mbit/s

95th percentile per-packet one-way delay: 119.322 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 119.751 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 118.882 ms

Loss rate: 1.50%

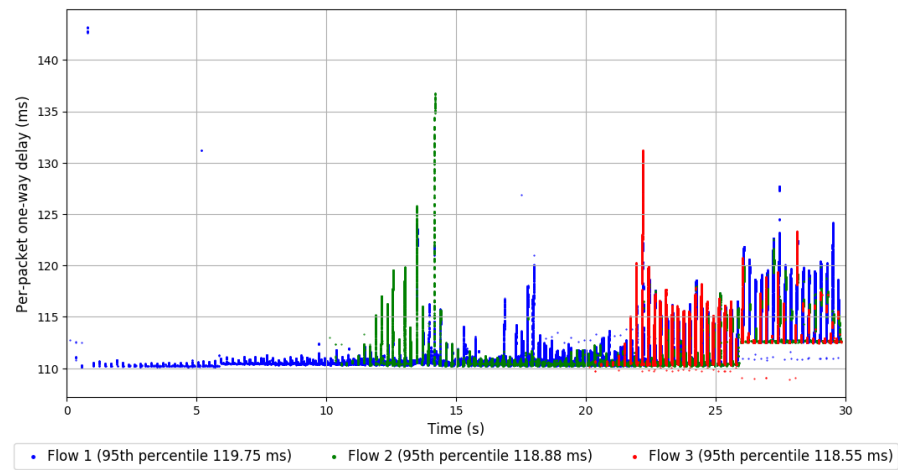
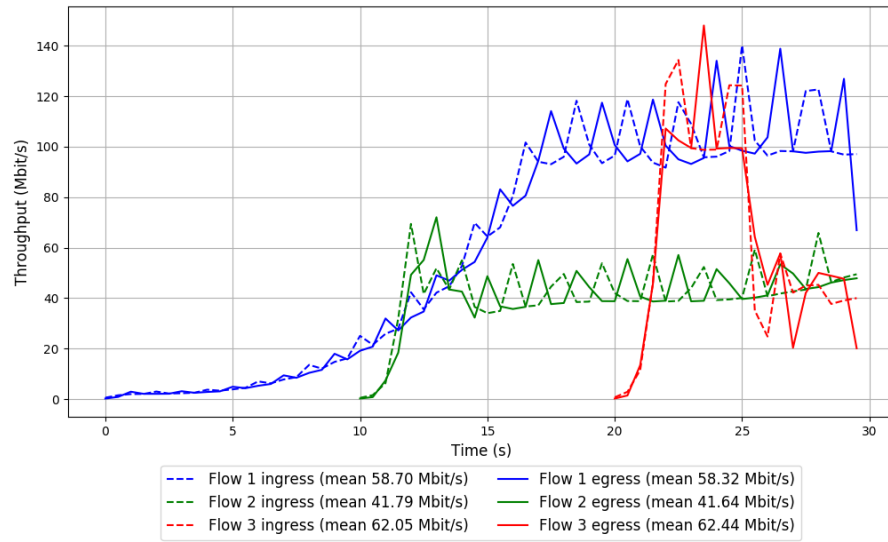
-- Flow 3:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 118.551 ms

Loss rate: 1.64%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 16:21:19

End at: 2018-01-02 16:21:49

Below is generated by plot.py at 2018-01-02 20:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.87 Mbit/s

95th percentile per-packet one-way delay: 113.415 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 60.80 Mbit/s

95th percentile per-packet one-way delay: 113.629 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 55.18 Mbit/s

95th percentile per-packet one-way delay: 113.247 ms

Loss rate: 1.14%

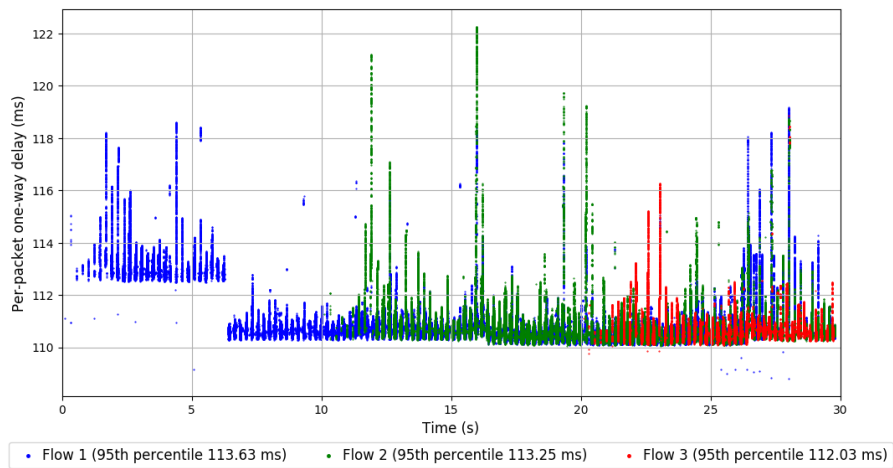
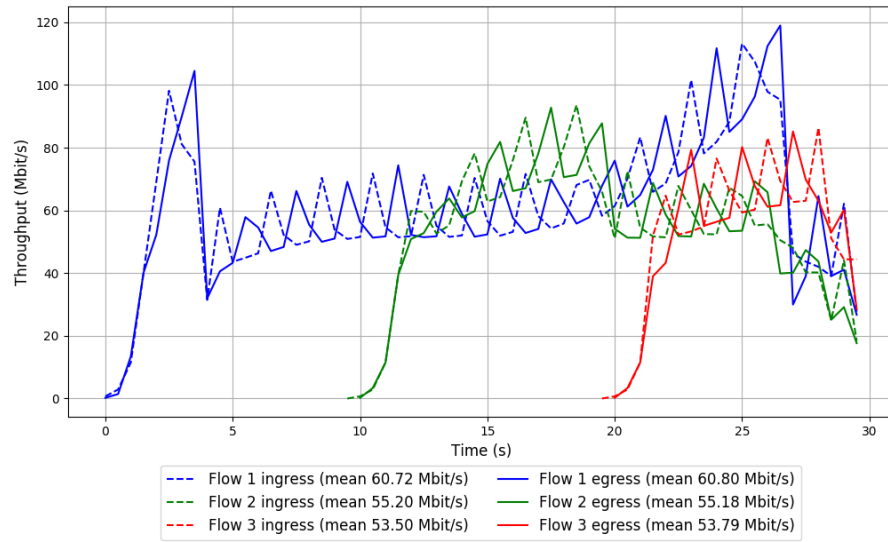
-- Flow 3:

Average throughput: 53.79 Mbit/s

95th percentile per-packet one-way delay: 112.029 ms

Loss rate: 2.13%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 16:35:15

End at: 2018-01-02 16:35:45

Below is generated by plot.py at 2018-01-02 20:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.05 Mbit/s

95th percentile per-packet one-way delay: 116.493 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 59.11 Mbit/s

95th percentile per-packet one-way delay: 116.012 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 48.91 Mbit/s

95th percentile per-packet one-way delay: 113.779 ms

Loss rate: 1.50%

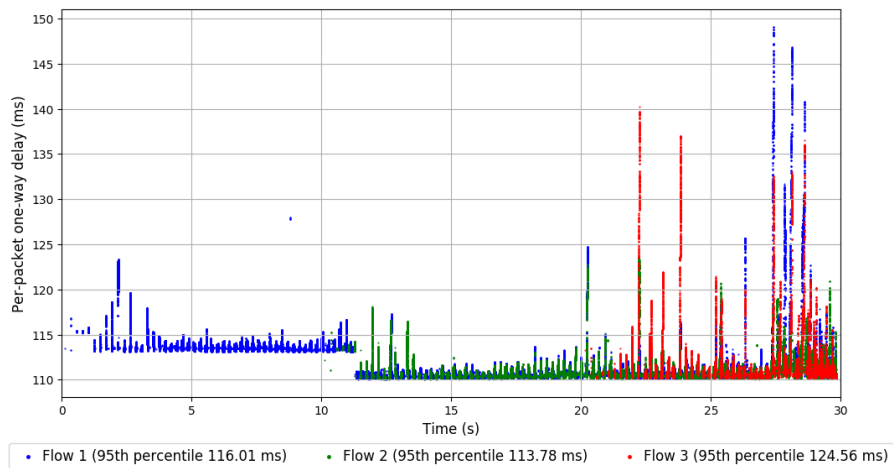
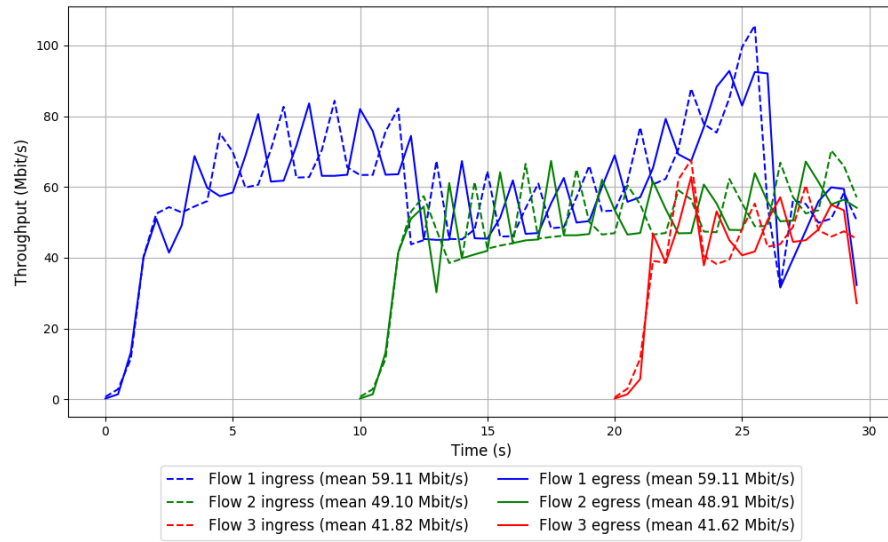
-- Flow 3:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 124.555 ms

Loss rate: 2.78%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 16:49:38

End at: 2018-01-02 16:50:08

Below is generated by plot.py at 2018-01-02 20:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.36 Mbit/s

95th percentile per-packet one-way delay: 132.577 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 123.026 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 48.16 Mbit/s

95th percentile per-packet one-way delay: 138.893 ms

Loss rate: 0.87%

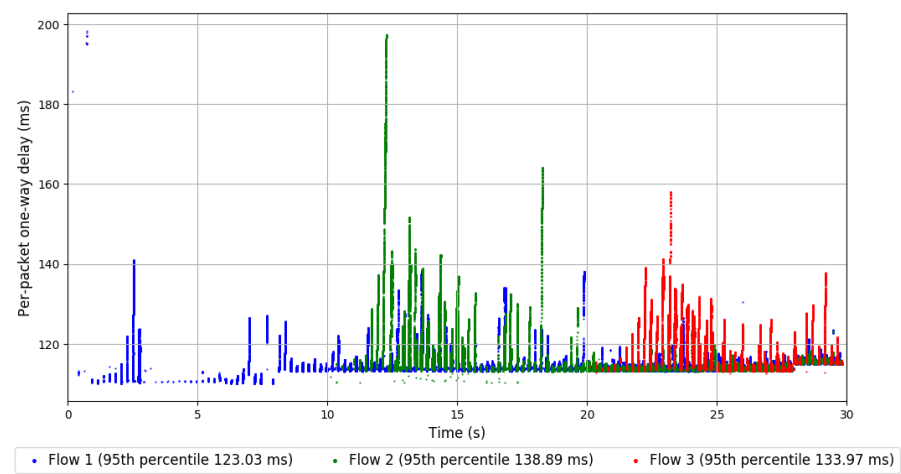
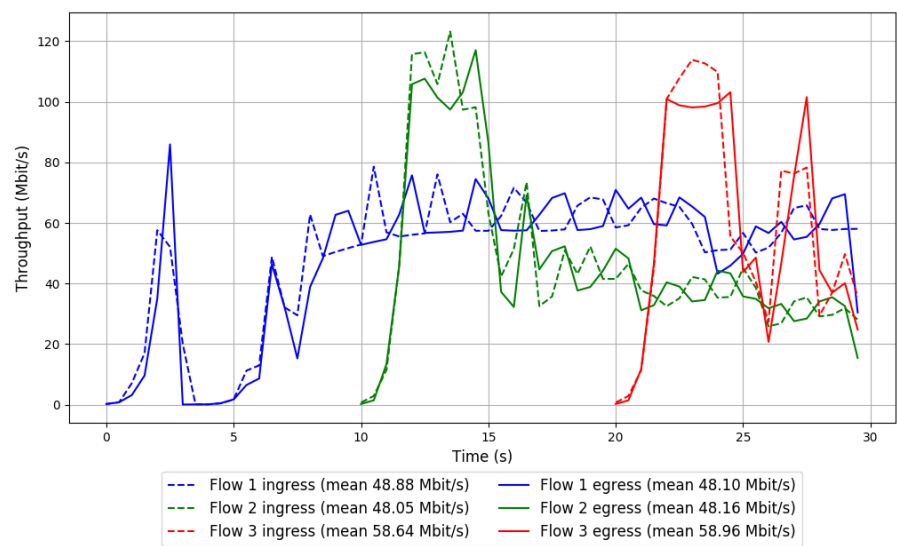
-- Flow 3:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 133.969 ms

Loss rate: 1.75%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 17:04:27

End at: 2018-01-02 17:04:57

Below is generated by plot.py at 2018-01-02 20:42:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.59 Mbit/s

95th percentile per-packet one-way delay: 114.036 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 113.853 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 43.89 Mbit/s

95th percentile per-packet one-way delay: 114.002 ms

Loss rate: 1.27%

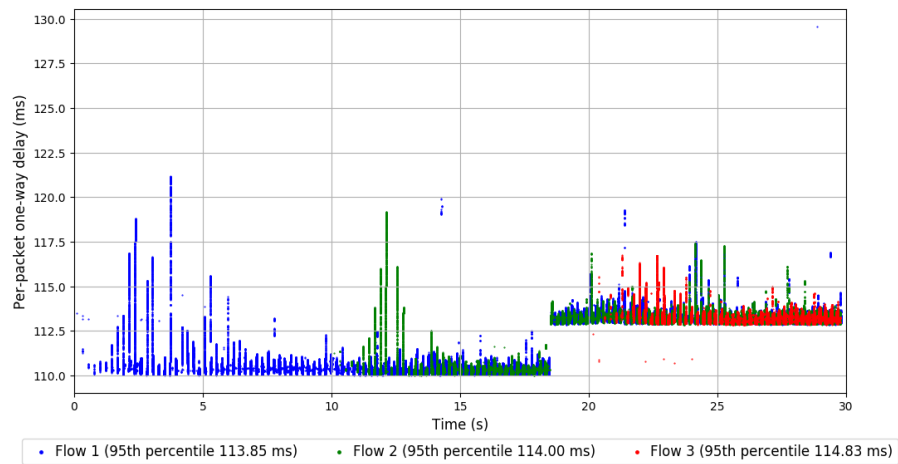
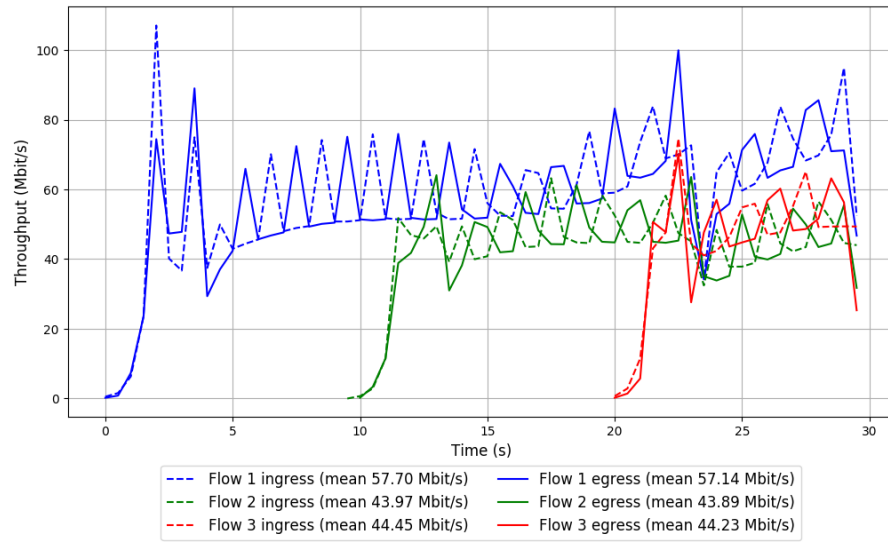
-- Flow 3:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 114.827 ms

Loss rate: 2.82%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 17:18:46

End at: 2018-01-02 17:19:16

Below is generated by plot.py at 2018-01-02 20:42:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.86 Mbit/s

95th percentile per-packet one-way delay: 115.549 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 114.966 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 45.89 Mbit/s

95th percentile per-packet one-way delay: 117.201 ms

Loss rate: 1.04%

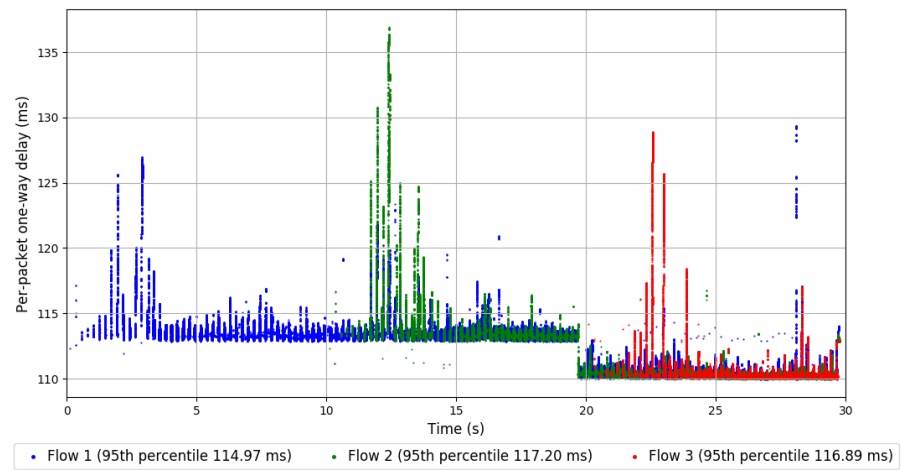
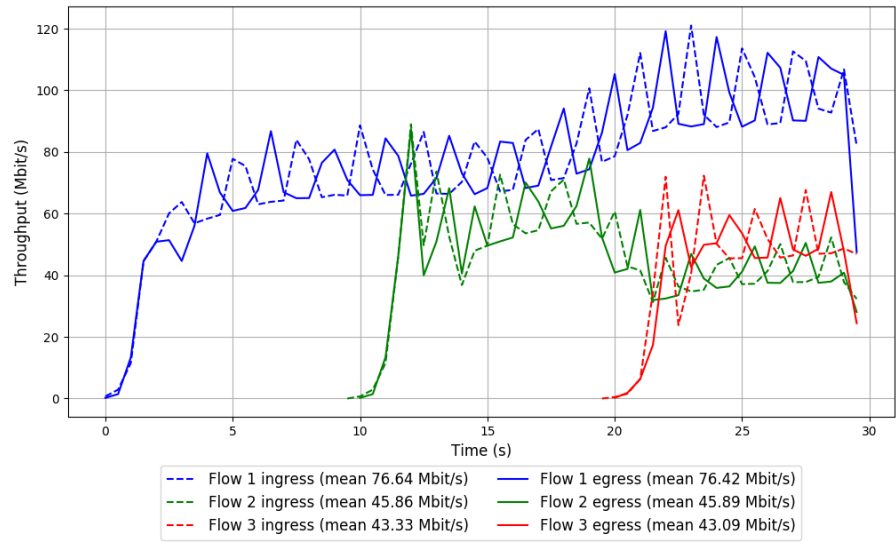
-- Flow 3:

Average throughput: 43.09 Mbit/s

95th percentile per-packet one-way delay: 116.893 ms

Loss rate: 2.83%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 17:34:03

End at: 2018-01-02 17:34:33

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.09 Mbit/s

95th percentile per-packet one-way delay: 122.157 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 59.19 Mbit/s

95th percentile per-packet one-way delay: 121.833 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 122.996 ms

Loss rate: 1.27%

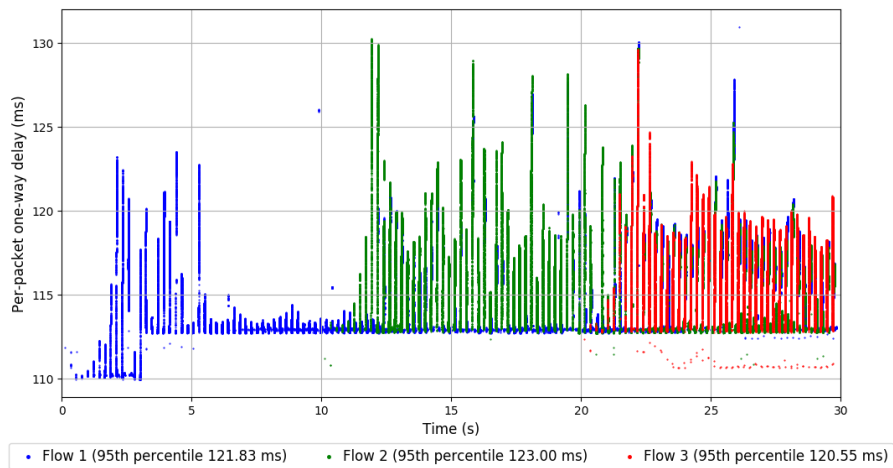
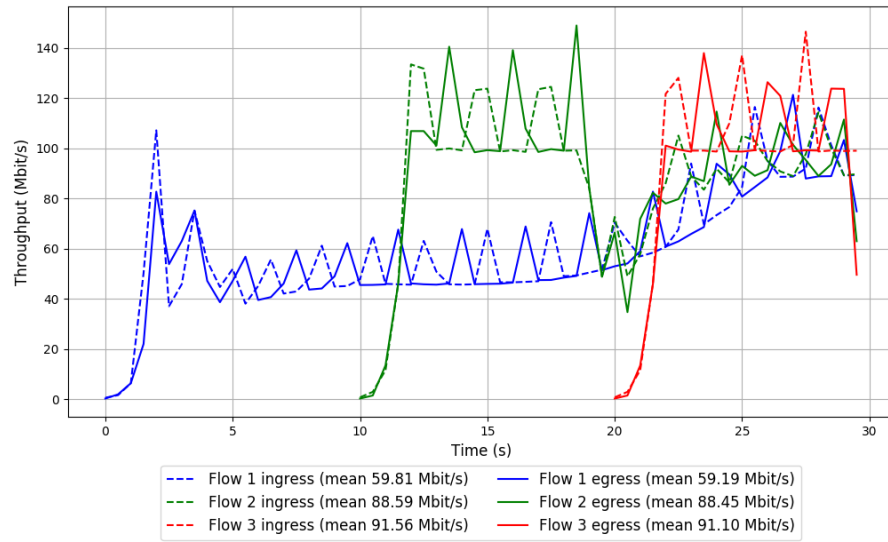
-- Flow 3:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 120.549 ms

Loss rate: 2.75%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 17:49:30

End at: 2018-01-02 17:50:00

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.88 Mbit/s

95th percentile per-packet one-way delay: 121.995 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 121.775 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 123.566 ms

Loss rate: 1.89%

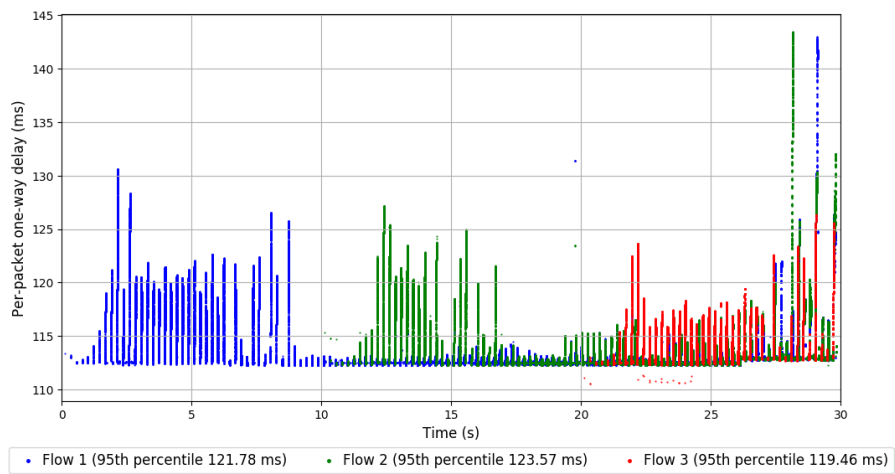
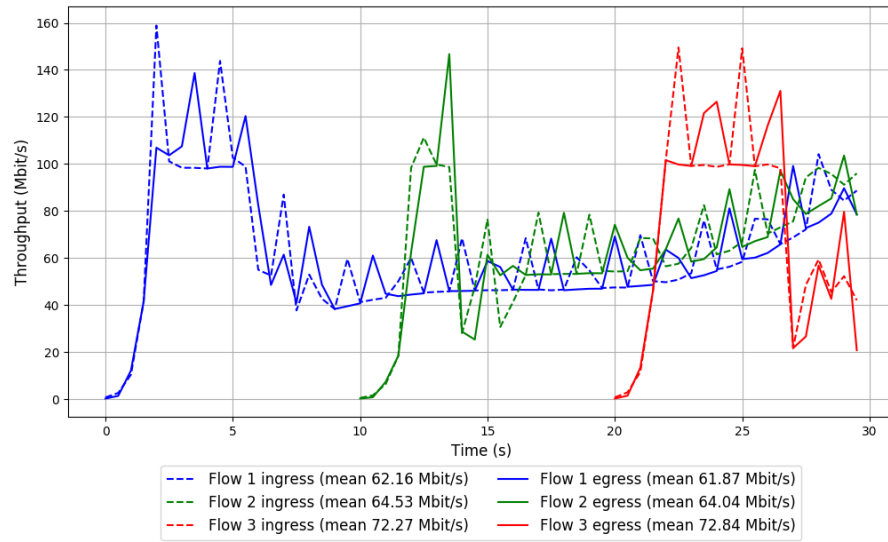
-- Flow 3:

Average throughput: 72.84 Mbit/s

95th percentile per-packet one-way delay: 119.464 ms

Loss rate: 1.50%

Run 10: Report of TCP Cubic — Data Link

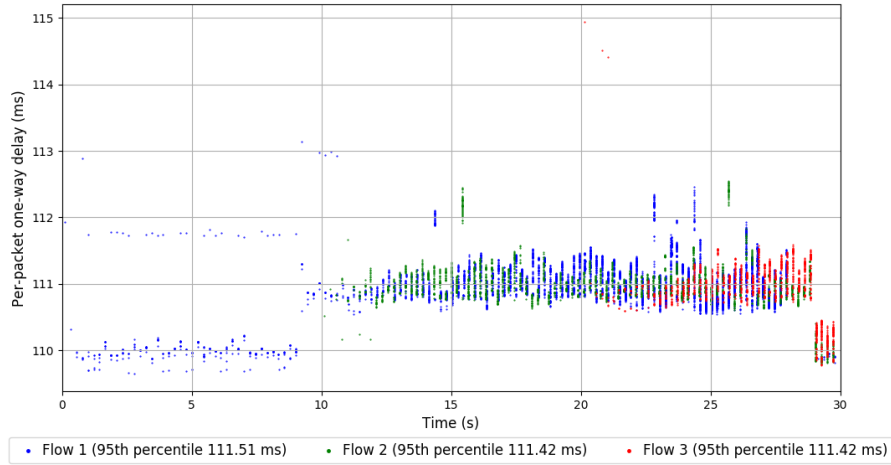
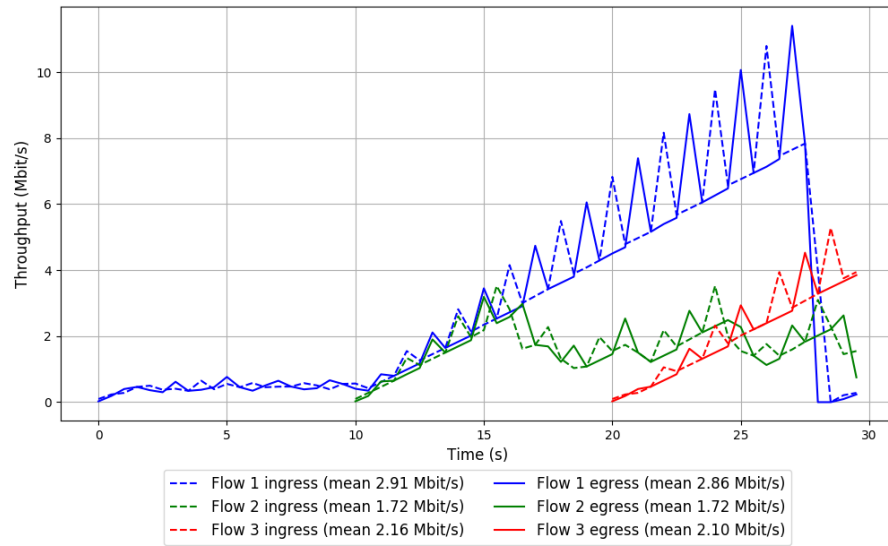


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 15:31:17
End at: 2018-01-02 15:31:47

# Below is generated by plot.py at 2018-01-02 20:42:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 111.466 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 111.506 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 111.420 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 111.421 ms
Loss rate: 4.71%
```


Run 1: Report of LEDBAT — Data Link

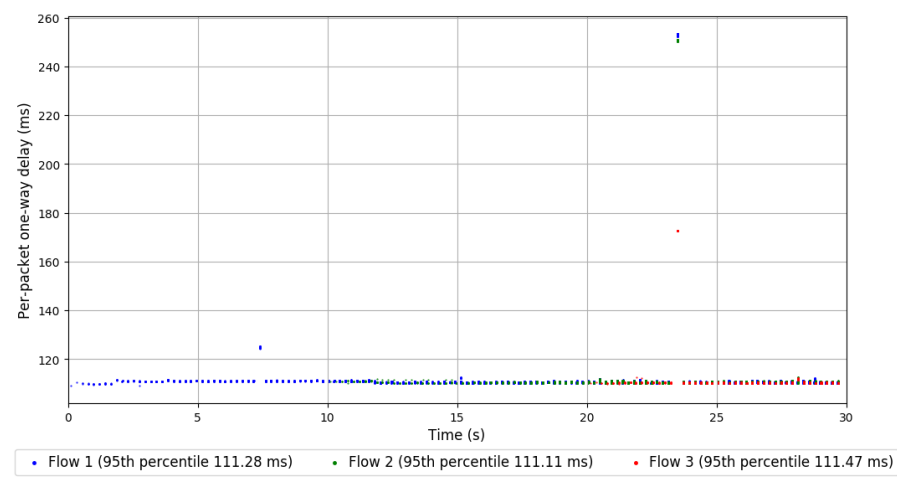
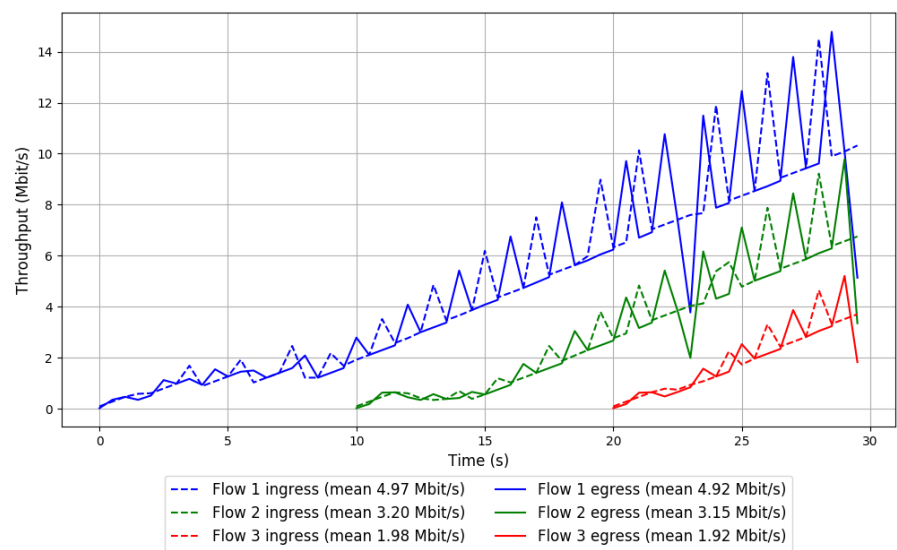


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-02 15:46:44
End at: 2018-01-02 15:47:14

# Below is generated by plot.py at 2018-01-02 20:42:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 111.246 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 111.282 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 111.113 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 111.467 ms
Loss rate: 4.85%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 16:02:12

End at: 2018-01-02 16:02:42

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 111.214 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 111.274 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 111.061 ms

Loss rate: 1.41%

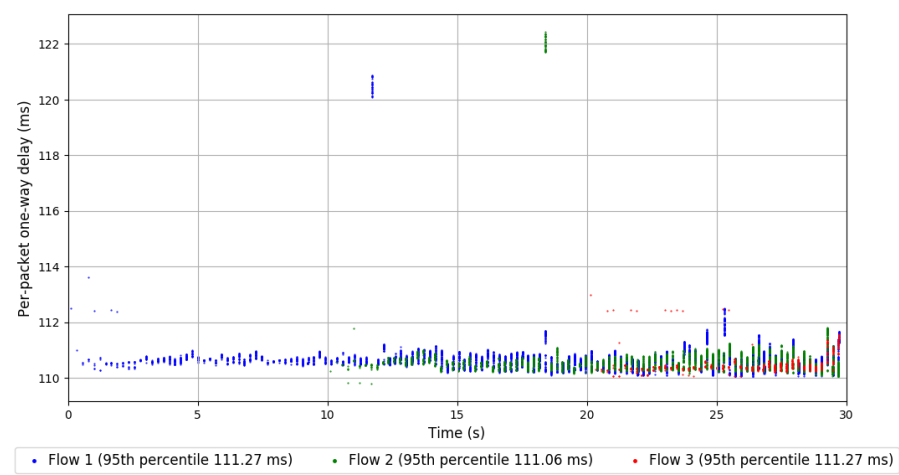
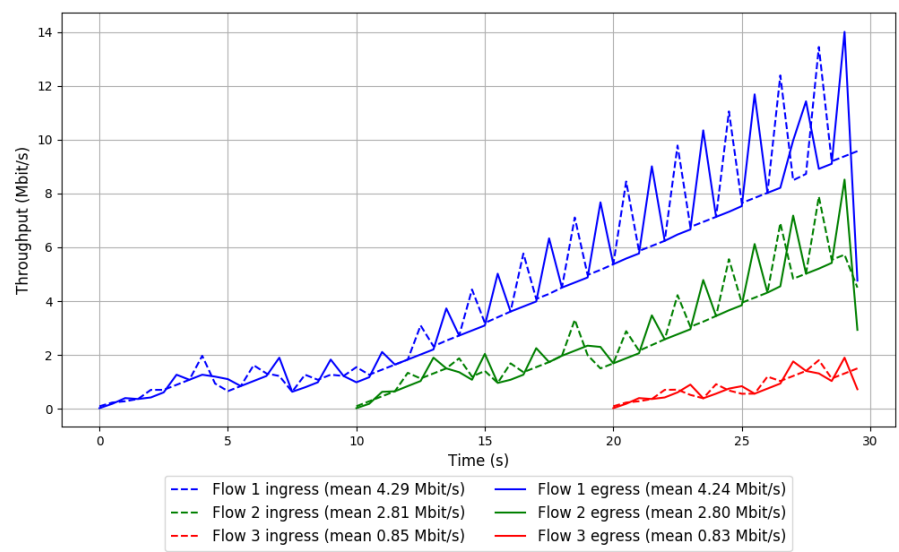
-- Flow 3:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 111.268 ms

Loss rate: 4.66%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-02 16:17:26

End at: 2018-01-02 16:17:56

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 112.738 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 112.895 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 111.362 ms

Loss rate: 2.83%

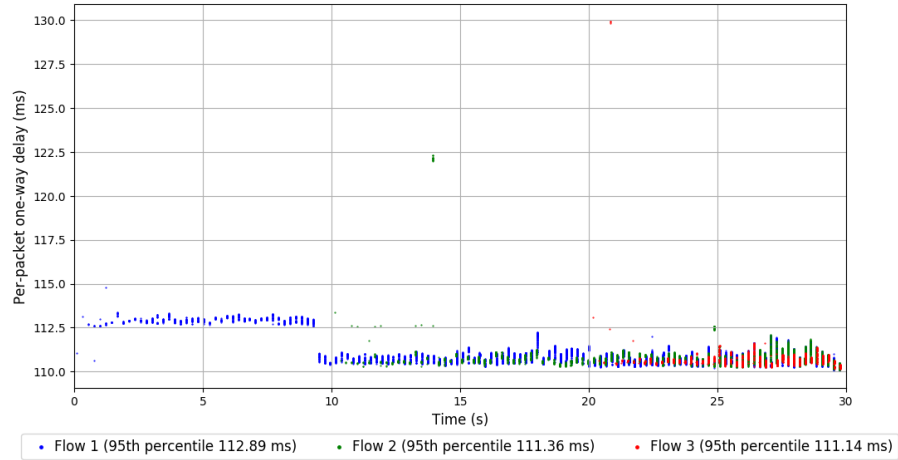
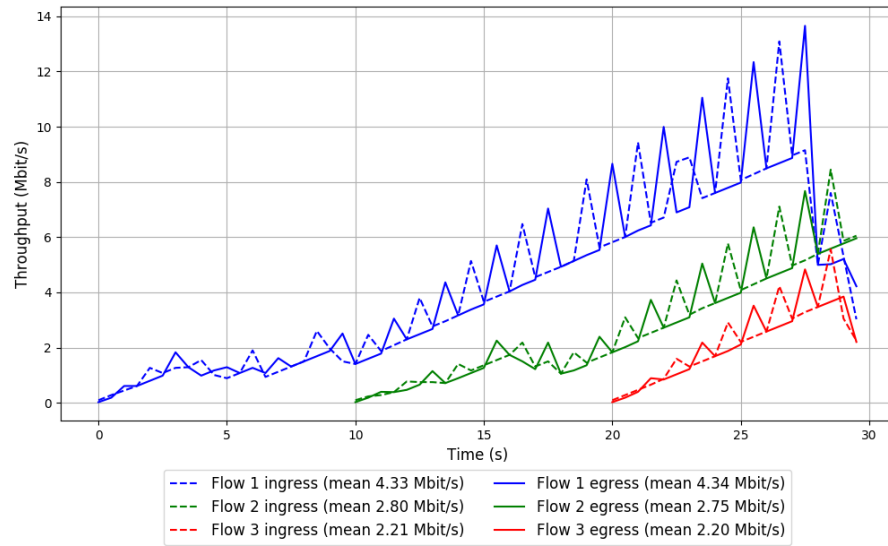
-- Flow 3:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 111.145 ms

Loss rate: 2.65%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 16:31:22

End at: 2018-01-02 16:31:52

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 114.058 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 114.100 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 114.000 ms

Loss rate: 2.03%

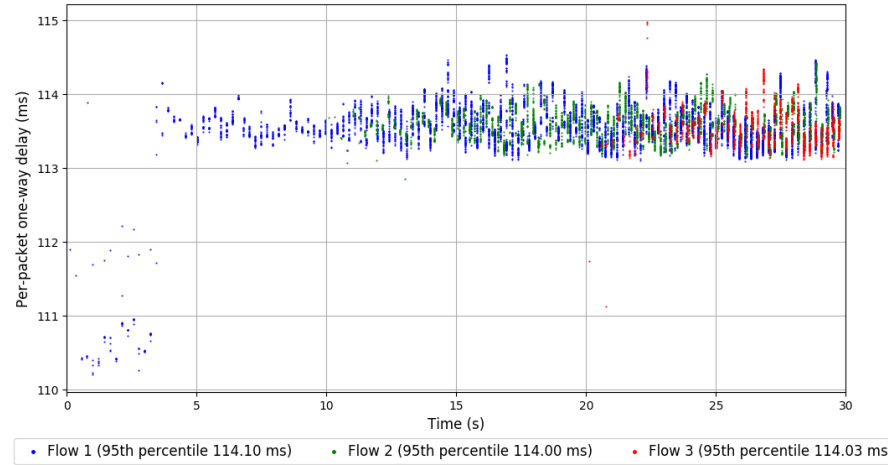
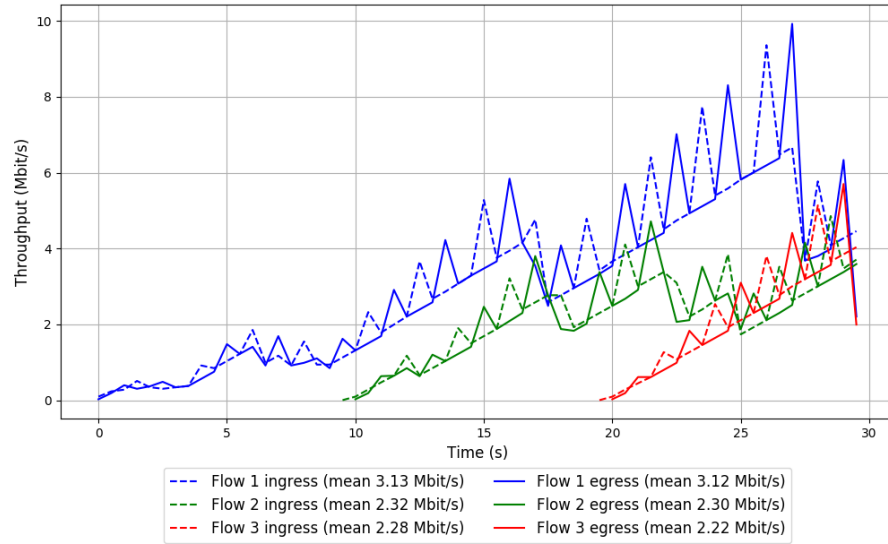
-- Flow 3:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 114.033 ms

Loss rate: 4.55%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 16:45:49

End at: 2018-01-02 16:46:19

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 114.169 ms

Loss rate: 3.60%

-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 114.136 ms

Loss rate: 2.87%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 114.283 ms

Loss rate: 4.62%

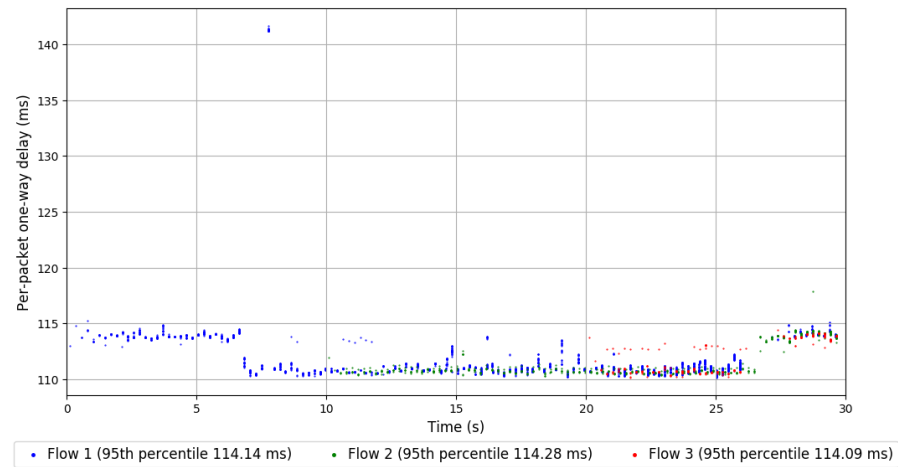
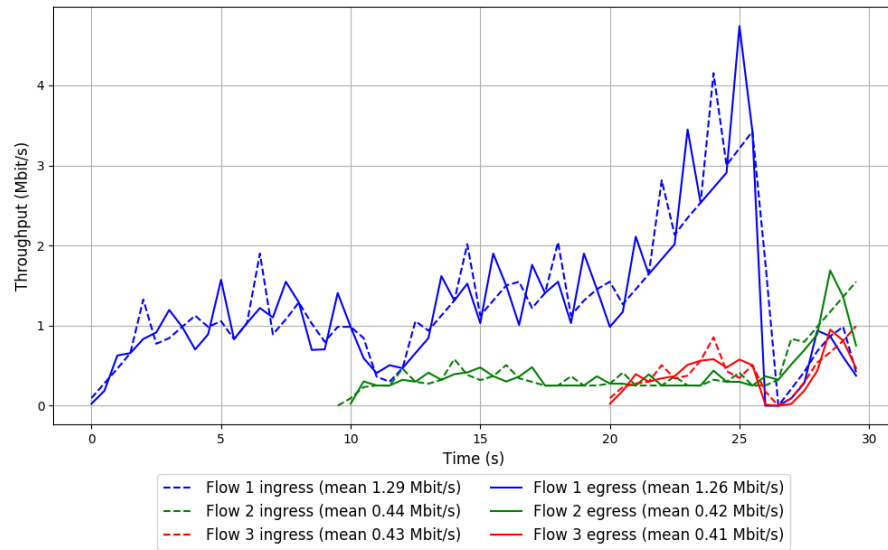
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 114.094 ms

Loss rate: 8.19%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 17:00:28

End at: 2018-01-02 17:00:58

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 115.613 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 115.610 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 115.629 ms

Loss rate: 1.32%

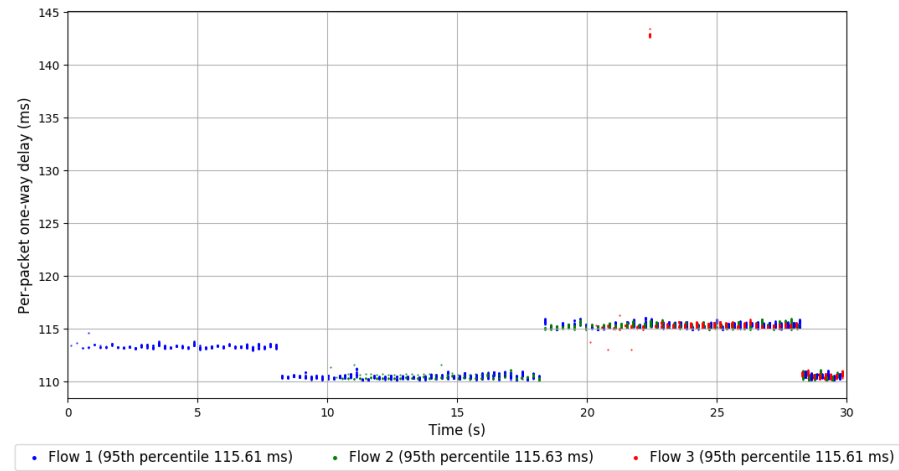
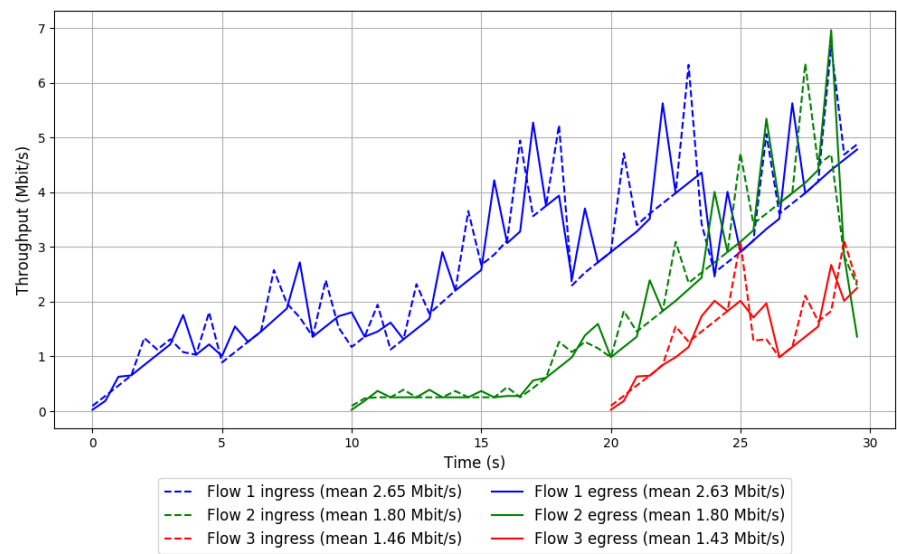
-- Flow 3:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 115.608 ms

Loss rate: 4.13%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 17:14:44

End at: 2018-01-02 17:15:14

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 113.718 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 113.941 ms

Loss rate: 3.74%

-- Flow 2:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 113.536 ms

Loss rate: 2.52%

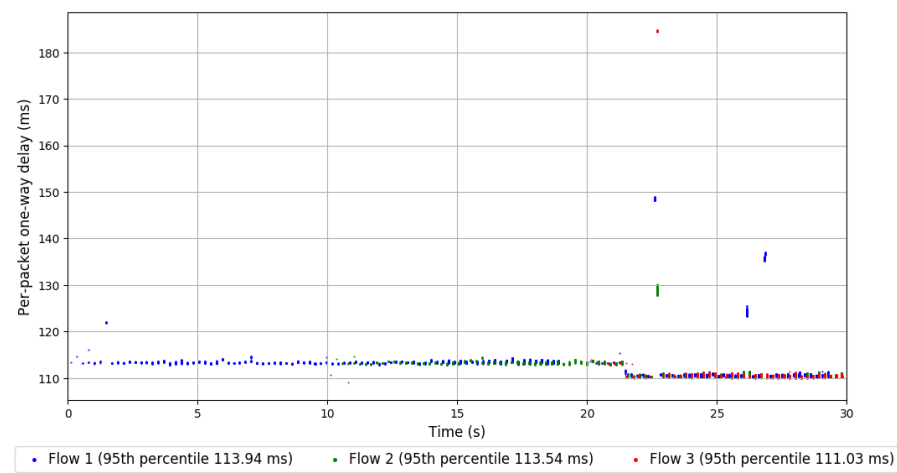
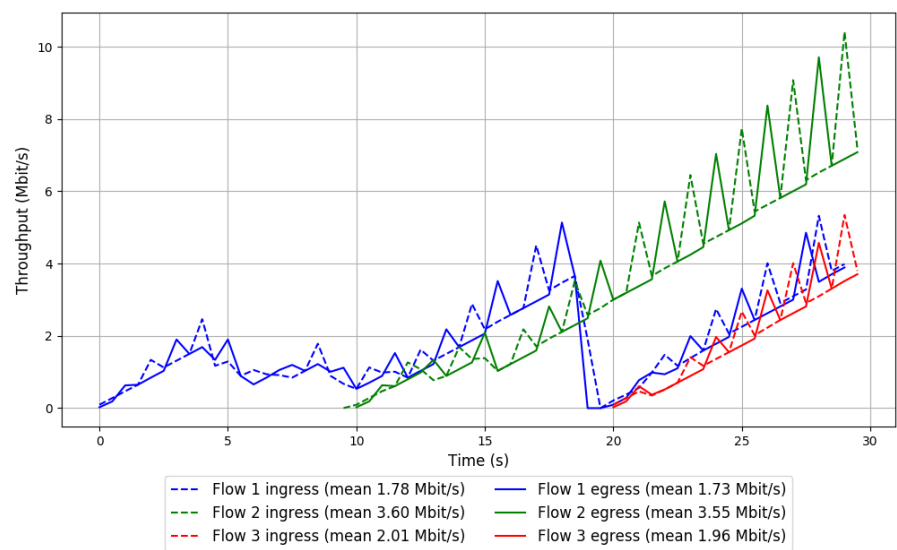
-- Flow 3:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 111.029 ms

Loss rate: 4.84%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 17:29:59

End at: 2018-01-02 17:30:29

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 113.676 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 113.688 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 113.645 ms

Loss rate: 2.26%

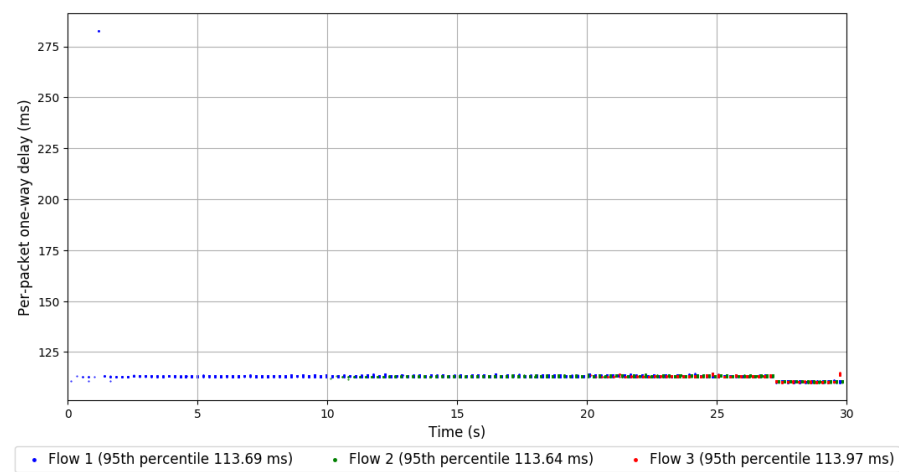
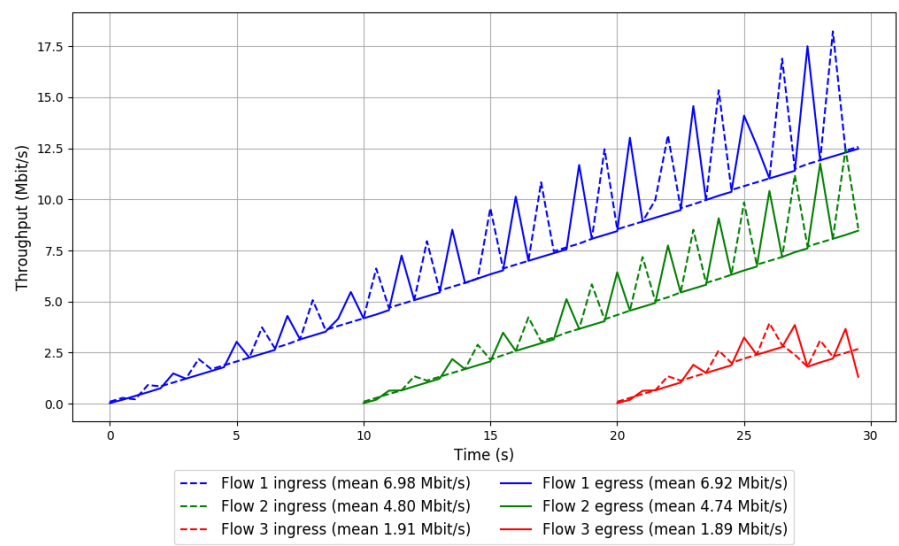
-- Flow 3:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 113.965 ms

Loss rate: 3.63%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 17:45:20

End at: 2018-01-02 17:45:50

Below is generated by plot.py at 2018-01-02 20:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 113.563 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 113.534 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 113.567 ms

Loss rate: 2.35%

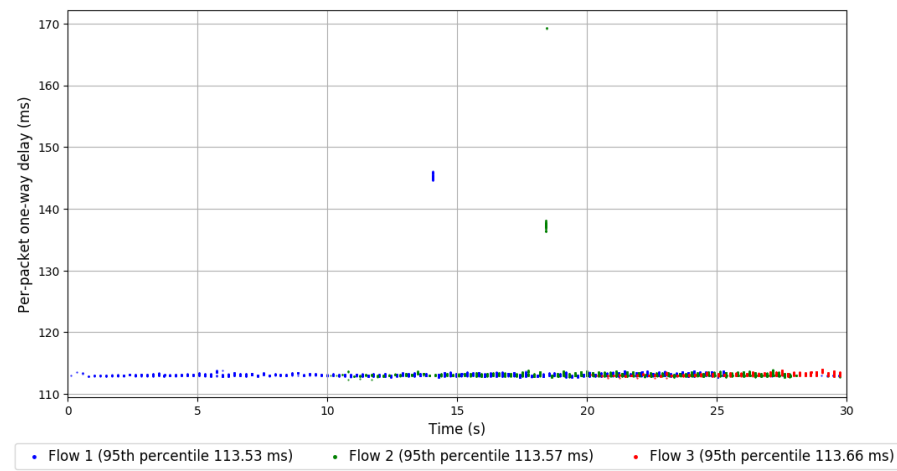
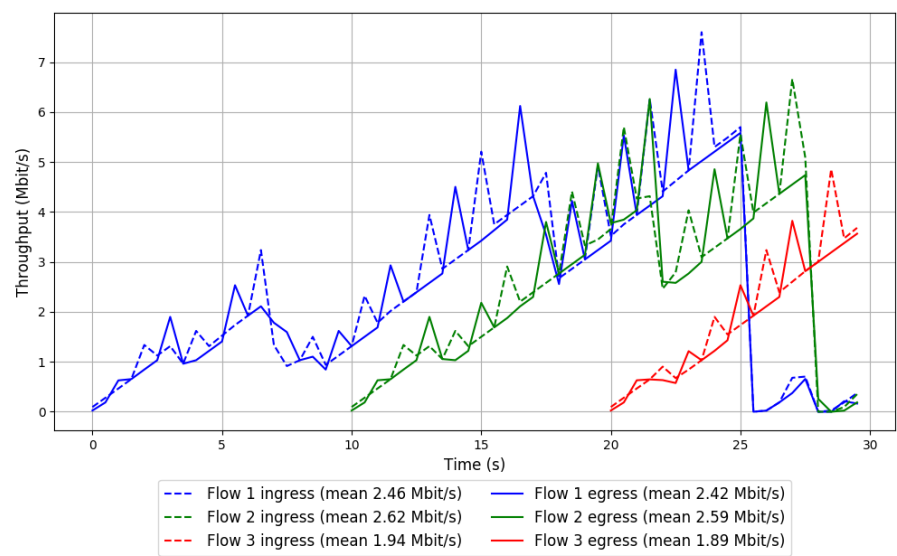
-- Flow 3:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 113.659 ms

Loss rate: 4.92%

Run 10: Report of LEDBAT — Data Link

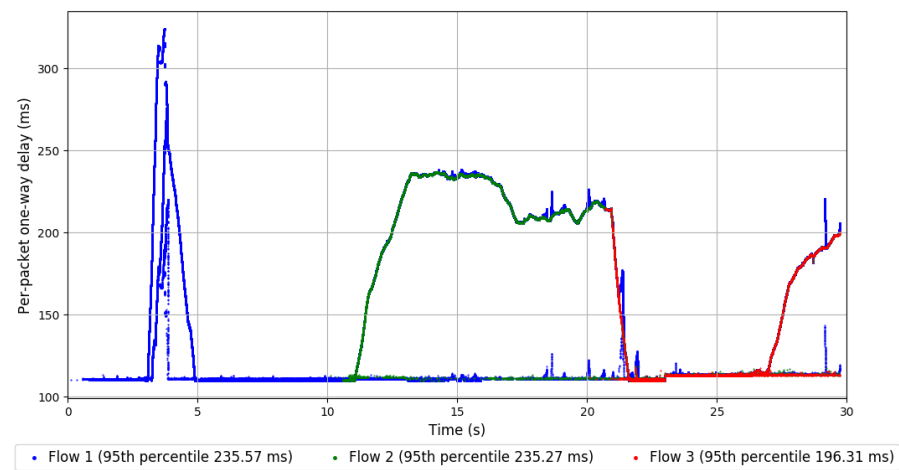
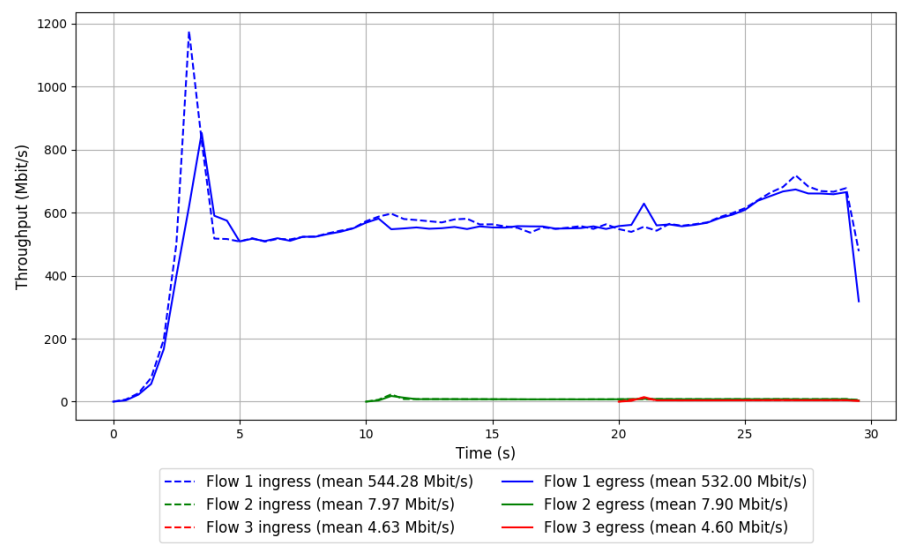


```
Run 1: Statistics of PCC

Start at: 2018-01-02 15:27:23
End at: 2018-01-02 15:27:53

# Below is generated by plot.py at 2018-01-02 20:49:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 538.71 Mbit/s
95th percentile per-packet one-way delay: 235.565 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 532.00 Mbit/s
95th percentile per-packet one-way delay: 235.573 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 235.267 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 196.305 ms
Loss rate: 3.03%
```

Run 1: Report of PCC — Data Link

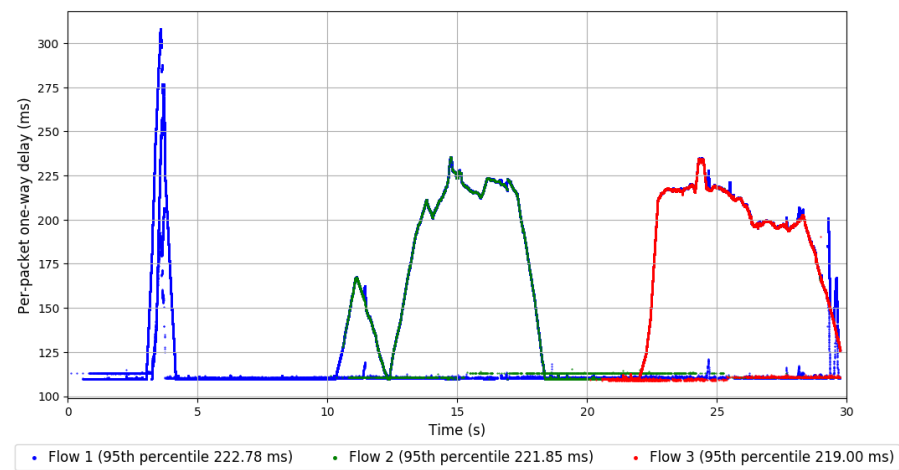
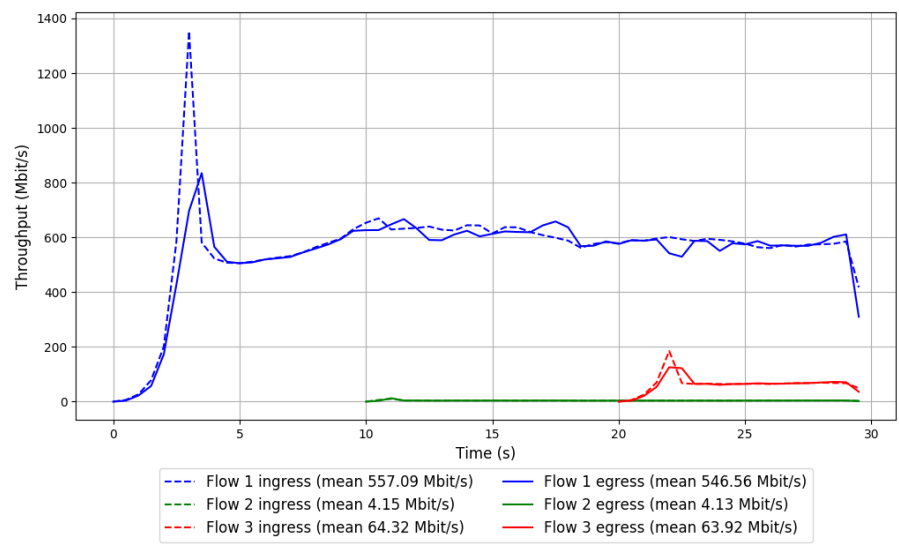


```
Run 2: Statistics of PCC

Start at: 2018-01-02 15:42:30
End at: 2018-01-02 15:43:00

# Below is generated by plot.py at 2018-01-02 20:50:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 570.02 Mbit/s
95th percentile per-packet one-way delay: 222.747 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 546.56 Mbit/s
95th percentile per-packet one-way delay: 222.781 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 221.850 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 219.004 ms
Loss rate: 2.87%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 15:58:03

End at: 2018-01-02 15:58:33

Below is generated by plot.py at 2018-01-02 20:50:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 536.71 Mbit/s

95th percentile per-packet one-way delay: 229.870 ms

Loss rate: 2.96%

-- Flow 1:

Average throughput: 520.23 Mbit/s

95th percentile per-packet one-way delay: 229.829 ms

Loss rate: 2.98%

-- Flow 2:

Average throughput: 8.66 Mbit/s

95th percentile per-packet one-way delay: 216.871 ms

Loss rate: 1.44%

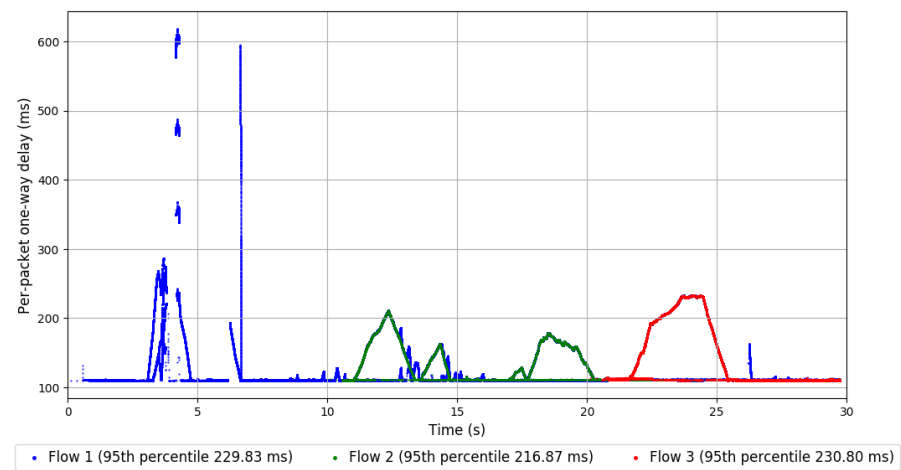
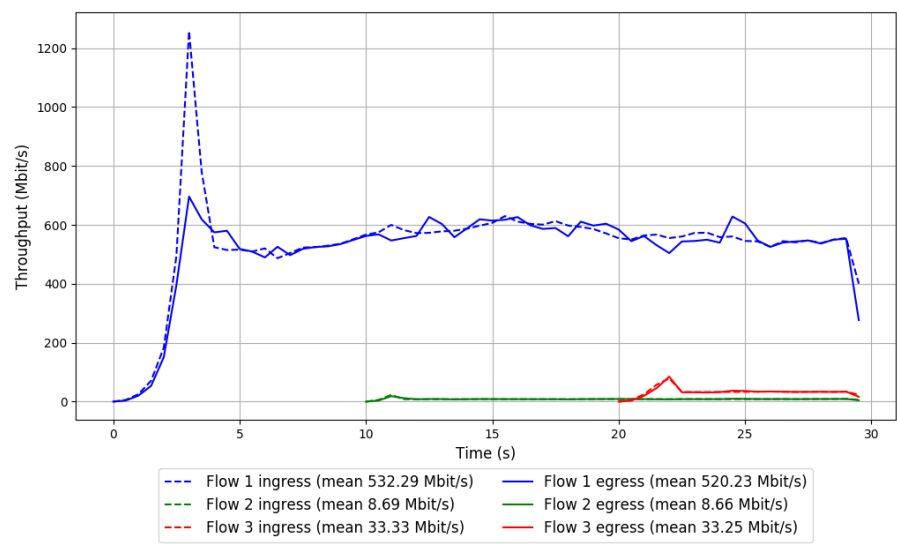
-- Flow 3:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 230.803 ms

Loss rate: 2.48%

Run 3: Report of PCC — Data Link

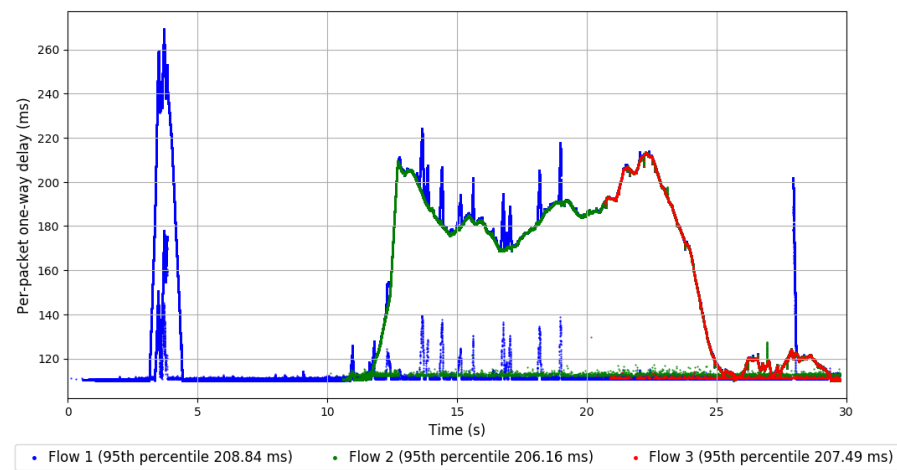
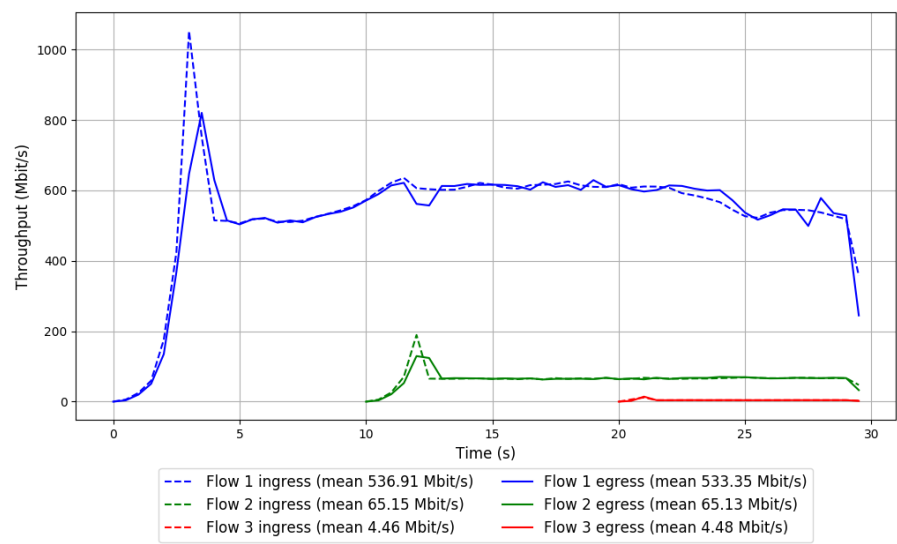


```
Run 4: Statistics of PCC

Start at: 2018-01-02 16:13:15
End at: 2018-01-02 16:13:45

# Below is generated by plot.py at 2018-01-02 20:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 577.89 Mbit/s
95th percentile per-packet one-way delay: 208.369 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 533.35 Mbit/s
95th percentile per-packet one-way delay: 208.836 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 206.155 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 207.491 ms
Loss rate: 2.12%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 16:28:13

End at: 2018-01-02 16:28:43

Below is generated by plot.py at 2018-01-02 20:50:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.25 Mbit/s

95th percentile per-packet one-way delay: 181.984 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 379.48 Mbit/s

95th percentile per-packet one-way delay: 174.076 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 151.238 ms

Loss rate: 1.52%

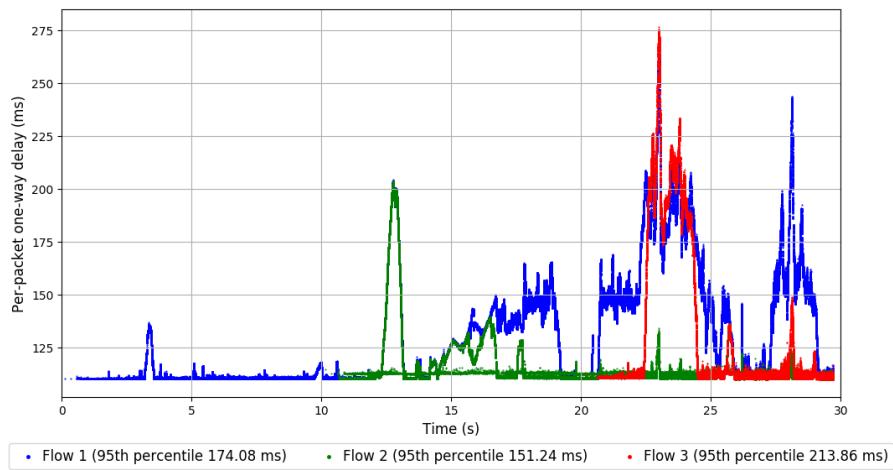
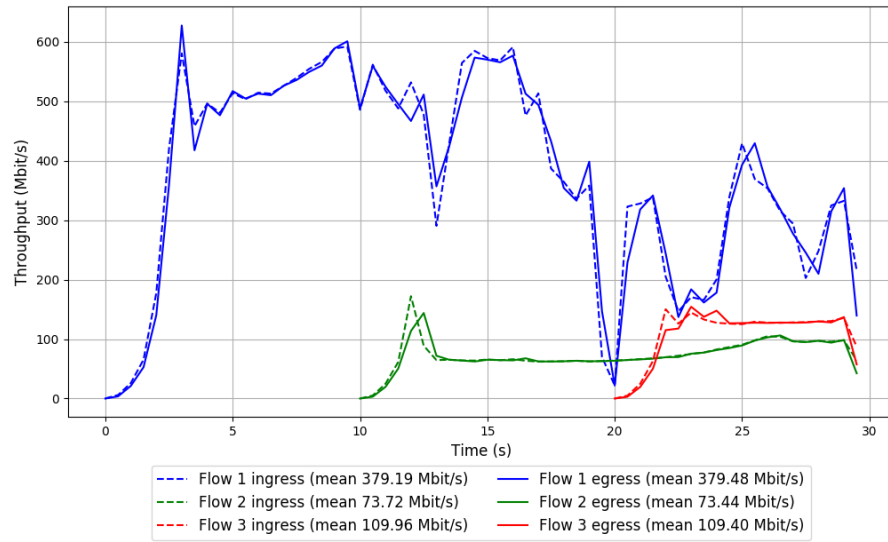
-- Flow 3:

Average throughput: 109.40 Mbit/s

95th percentile per-packet one-way delay: 213.856 ms

Loss rate: 2.79%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 16:42:17

End at: 2018-01-02 16:42:47

Below is generated by plot.py at 2018-01-02 20:51:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 558.17 Mbit/s

95th percentile per-packet one-way delay: 222.398 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 454.49 Mbit/s

95th percentile per-packet one-way delay: 222.505 ms

Loss rate: 3.33%

-- Flow 2:

Average throughput: 126.08 Mbit/s

95th percentile per-packet one-way delay: 220.929 ms

Loss rate: 2.87%

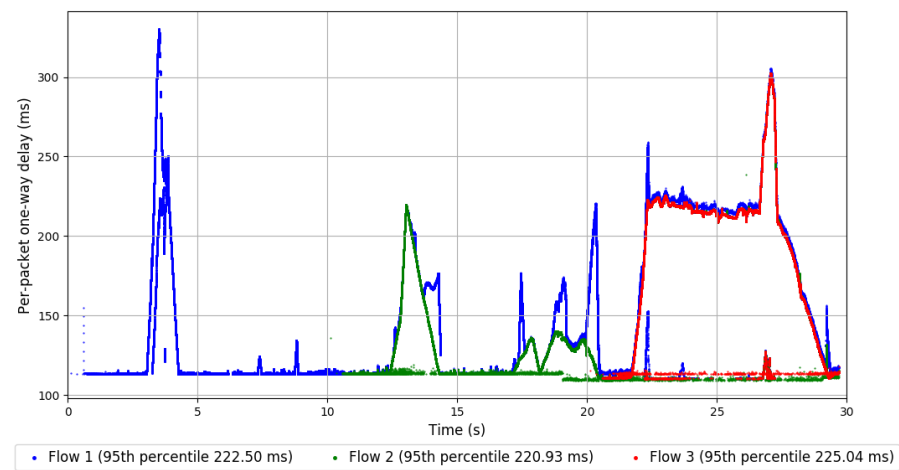
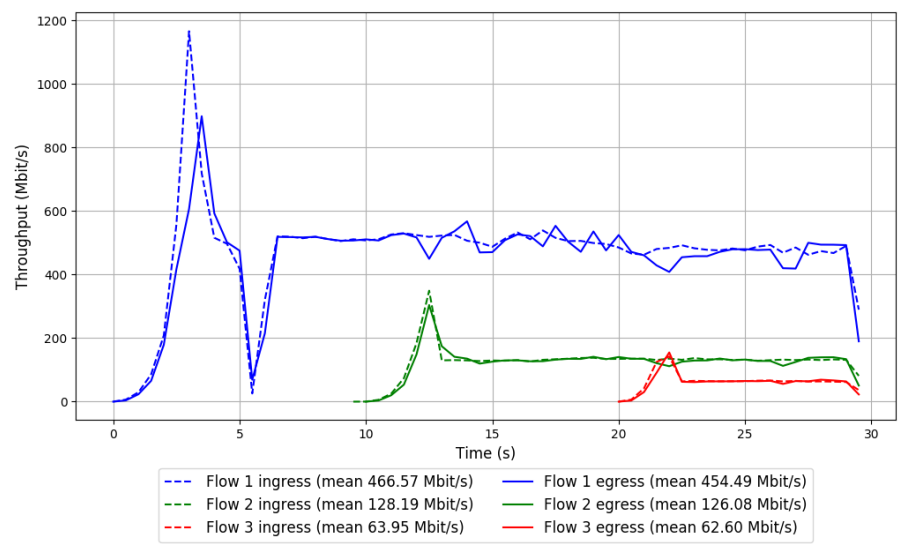
-- Flow 3:

Average throughput: 62.60 Mbit/s

95th percentile per-packet one-way delay: 225.038 ms

Loss rate: 4.36%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 16:56:39

End at: 2018-01-02 16:57:09

Below is generated by plot.py at 2018-01-02 20:51:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.18 Mbit/s

95th percentile per-packet one-way delay: 278.562 ms

Loss rate: 6.42%

-- Flow 1:

Average throughput: 386.10 Mbit/s

95th percentile per-packet one-way delay: 282.225 ms

Loss rate: 6.93%

-- Flow 2:

Average throughput: 127.07 Mbit/s

95th percentile per-packet one-way delay: 246.606 ms

Loss rate: 3.90%

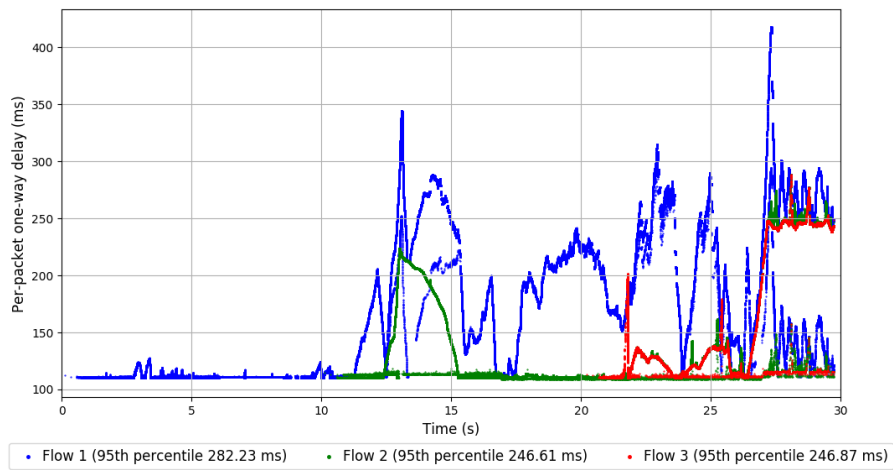
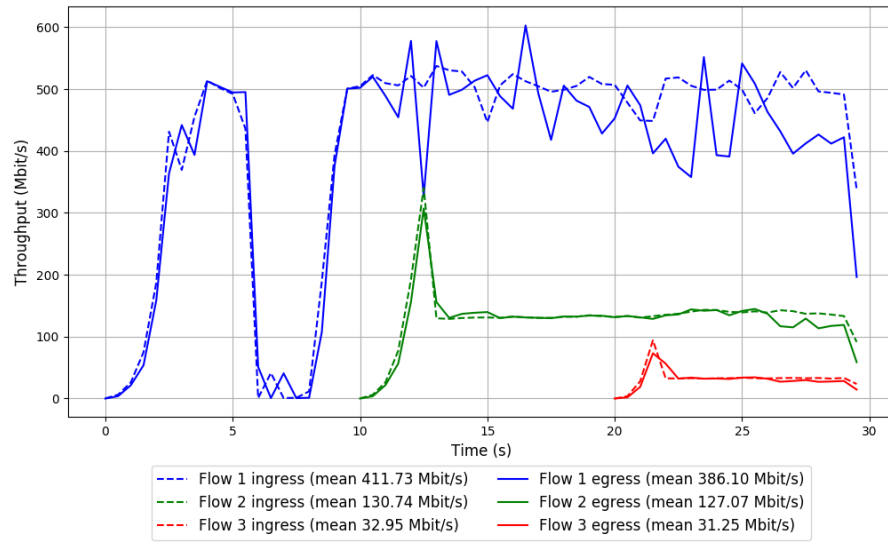
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 246.868 ms

Loss rate: 7.29%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 17:11:29

End at: 2018-01-02 17:11:59

Below is generated by plot.py at 2018-01-02 20:52:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 562.44 Mbit/s

95th percentile per-packet one-way delay: 222.213 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 411.20 Mbit/s

95th percentile per-packet one-way delay: 224.835 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 227.76 Mbit/s

95th percentile per-packet one-way delay: 220.320 ms

Loss rate: 2.34%

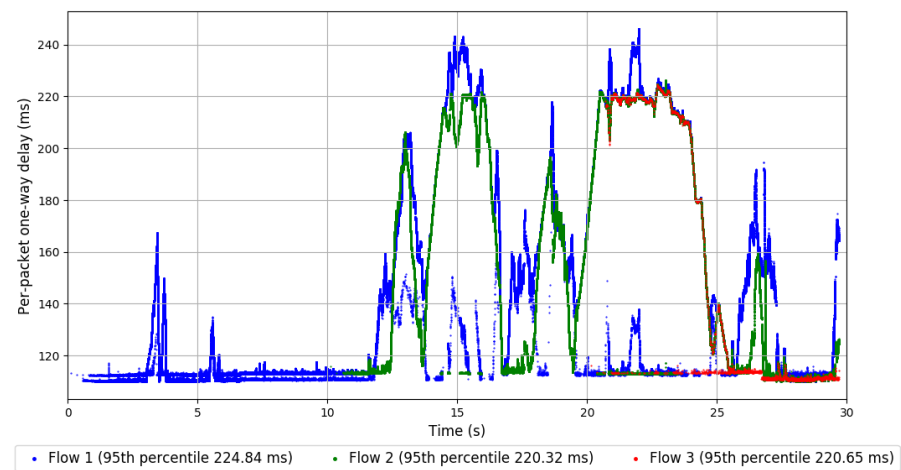
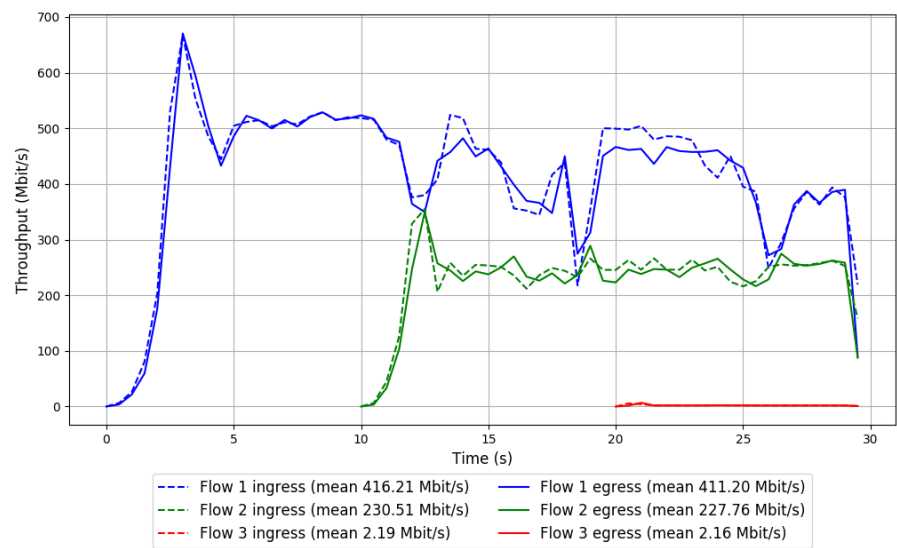
-- Flow 3:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 220.645 ms

Loss rate: 3.60%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 17:25:46

End at: 2018-01-02 17:26:16

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 580.38 Mbit/s

95th percentile per-packet one-way delay: 226.610 ms

Loss rate: 3.49%

-- Flow 1:

Average throughput: 534.82 Mbit/s

95th percentile per-packet one-way delay: 226.635 ms

Loss rate: 3.57%

-- Flow 2:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 226.237 ms

Loss rate: 2.51%

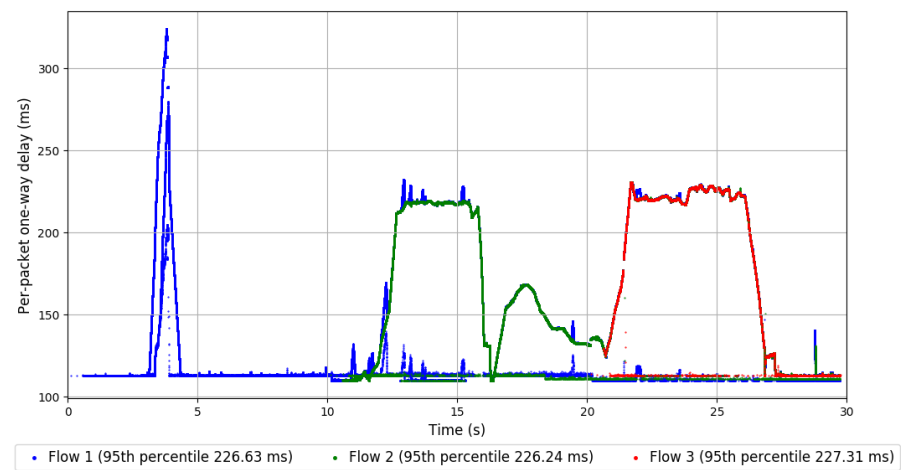
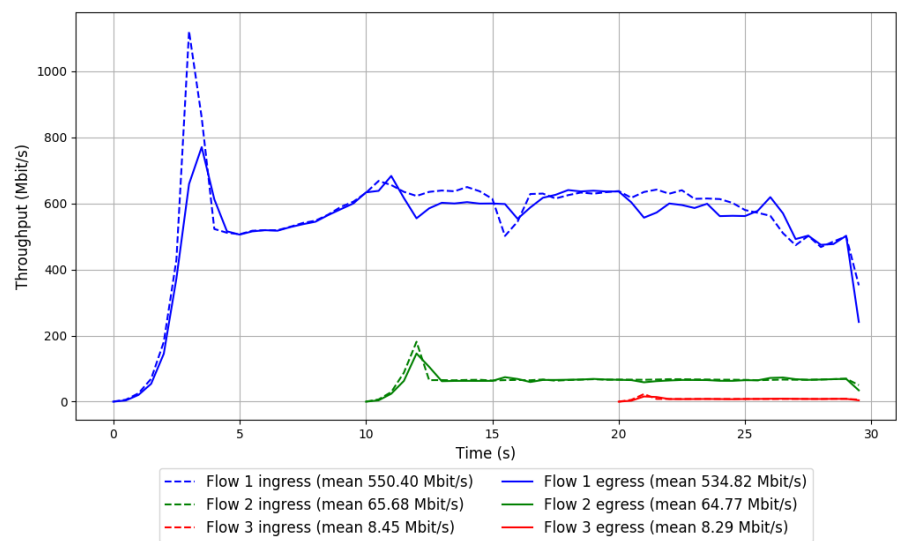
-- Flow 3:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 227.305 ms

Loss rate: 4.21%

Run 9: Report of PCC — Data Link

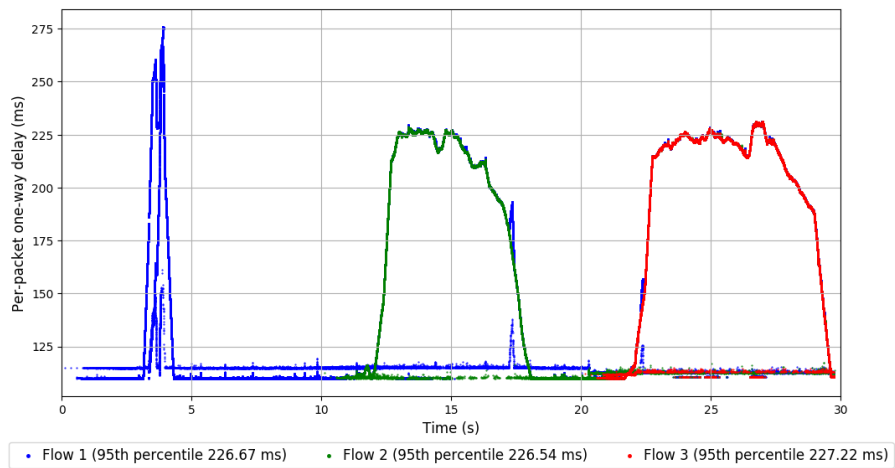
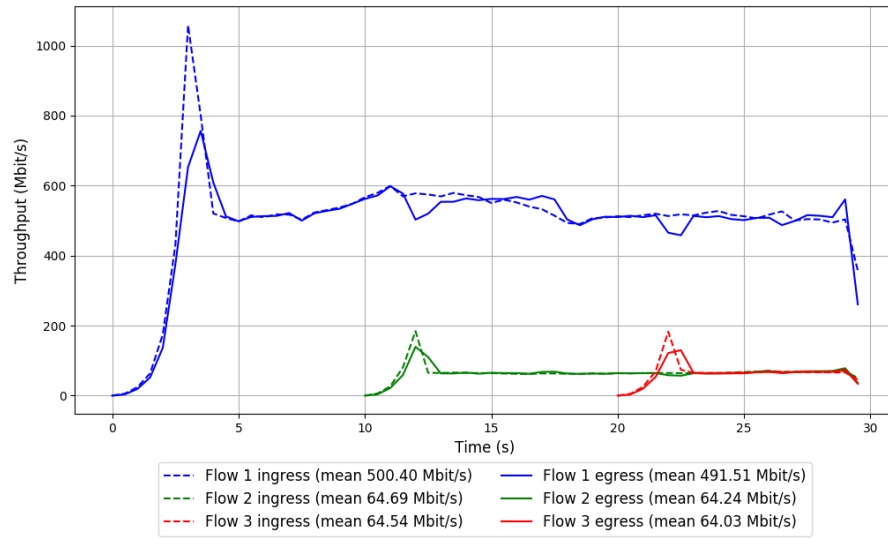


```
Run 10: Statistics of PCC

Start at: 2018-01-02 17:41:14
End at: 2018-01-02 17:41:44

# Below is generated by plot.py at 2018-01-02 20:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 554.71 Mbit/s
95th percentile per-packet one-way delay: 226.677 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 491.51 Mbit/s
95th percentile per-packet one-way delay: 226.674 ms
Loss rate: 2.52%
-- Flow 2:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 226.540 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 64.03 Mbit/s
95th percentile per-packet one-way delay: 227.225 ms
Loss rate: 3.07%
```

Run 10: Report of PCC — Data Link

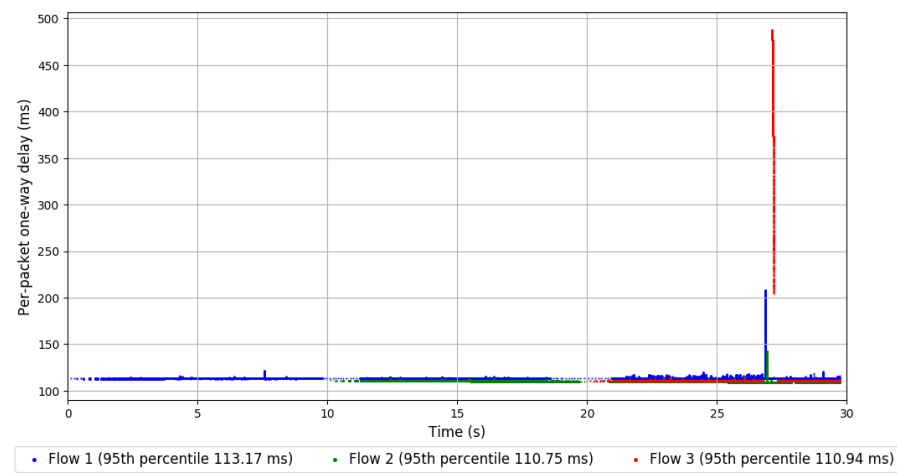
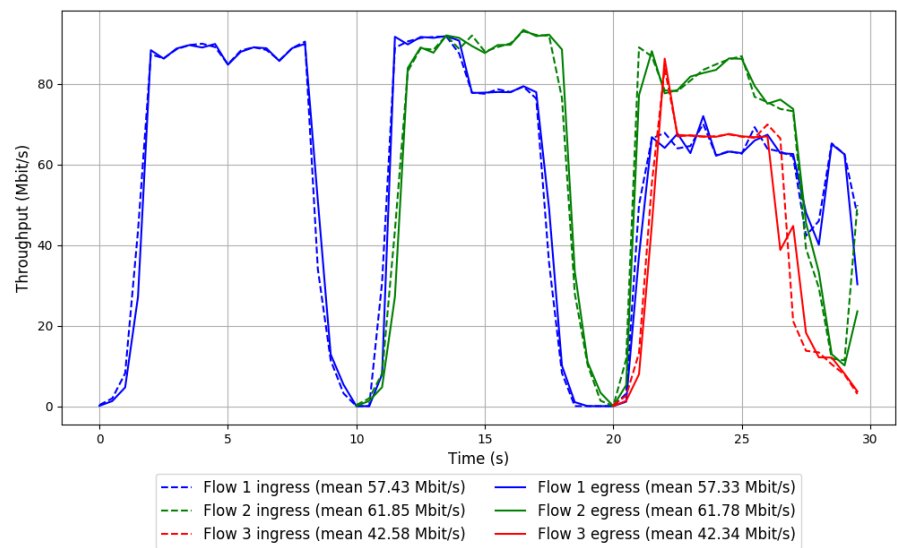


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 15:25:40
End at: 2018-01-02 15:26:10

# Below is generated by plot.py at 2018-01-02 20:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.97 Mbit/s
95th percentile per-packet one-way delay: 113.131 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 113.172 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 110.749 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 42.34 Mbit/s
95th percentile per-packet one-way delay: 110.944 ms
Loss rate: 1.91%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 15:40:39

End at: 2018-01-02 15:41:09

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.09 Mbit/s

95th percentile per-packet one-way delay: 112.336 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 110.747 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 112.376 ms

Loss rate: 0.87%

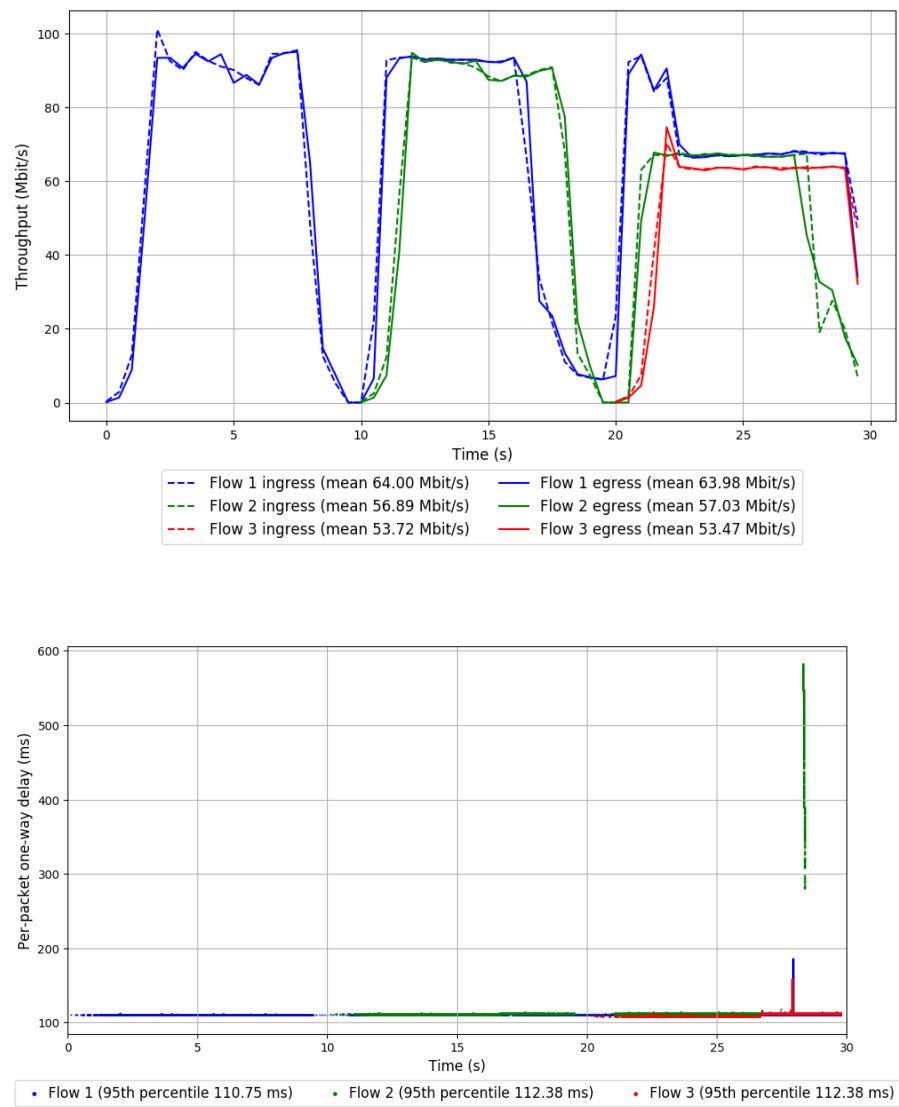
-- Flow 3:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 112.382 ms

Loss rate: 2.71%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 15:56:15

End at: 2018-01-02 15:56:45

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.95 Mbit/s

95th percentile per-packet one-way delay: 112.408 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 109.754 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 112.460 ms

Loss rate: 0.14%

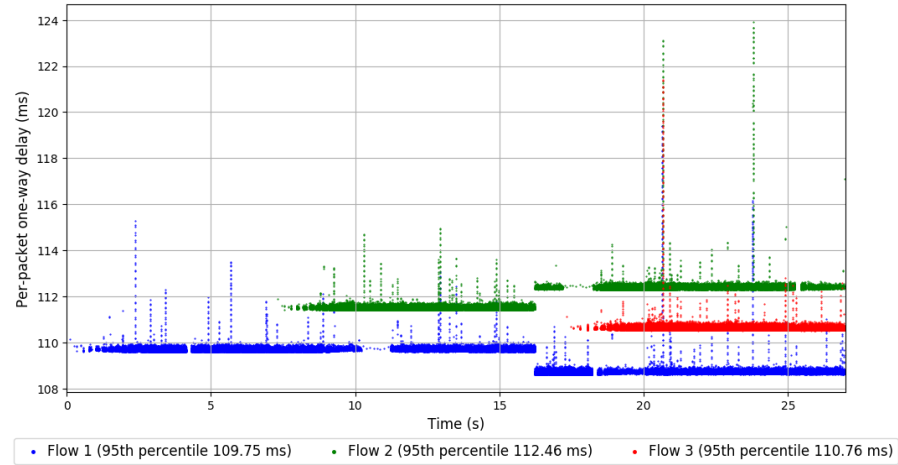
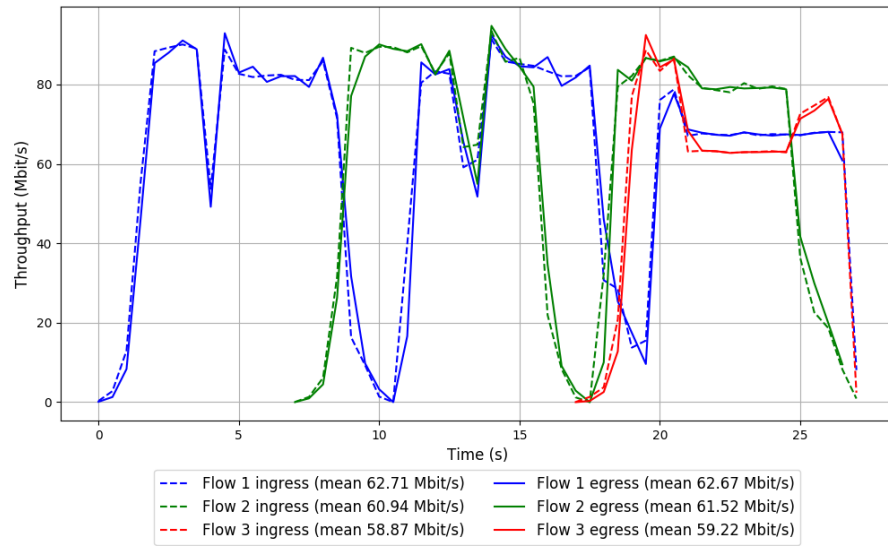
-- Flow 3:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 110.756 ms

Loss rate: 1.66%

Run 3: Report of QUIC Cubic — Data Link

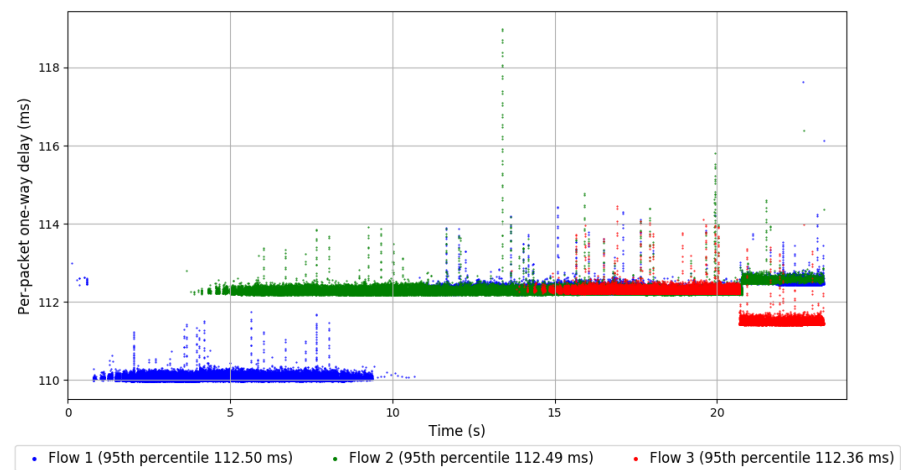
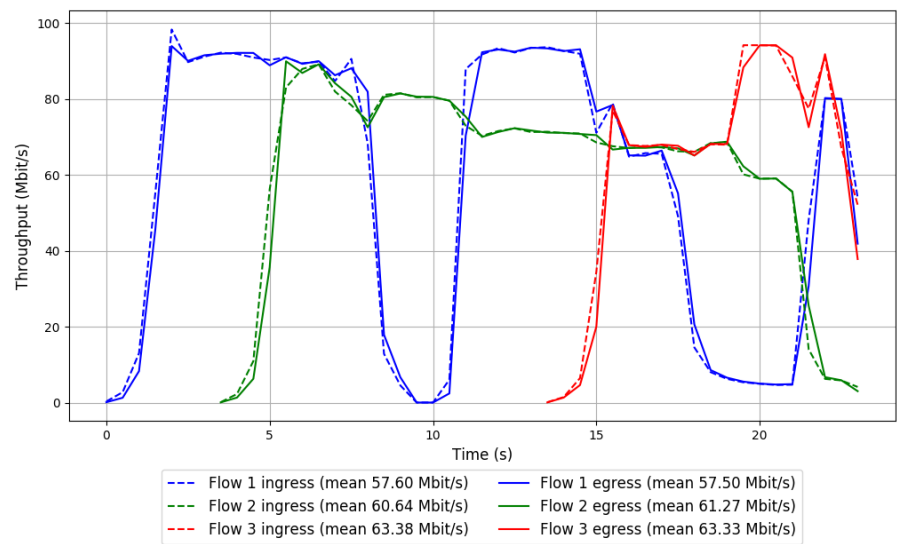


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 16:11:28

End at: 2018-01-02 16:11:58

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 16:26:29

End at: 2018-01-02 16:26:59

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.23 Mbit/s

95th percentile per-packet one-way delay: 112.830 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 112.622 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 112.900 ms

Loss rate: 1.22%

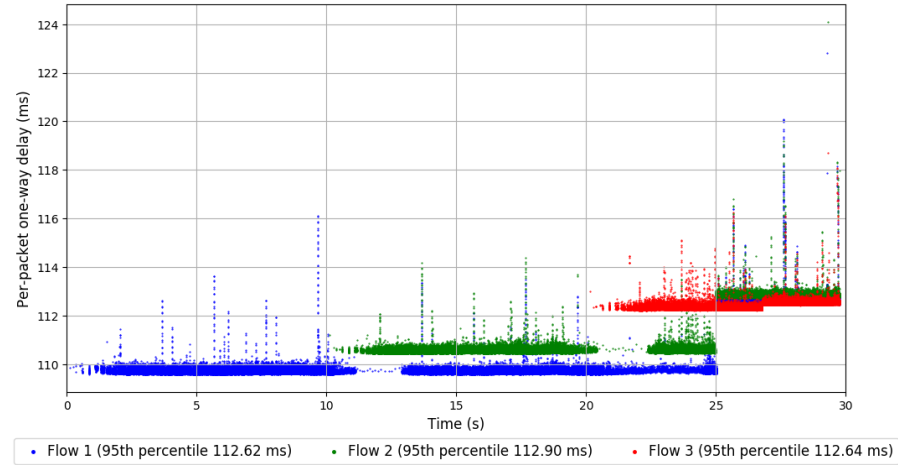
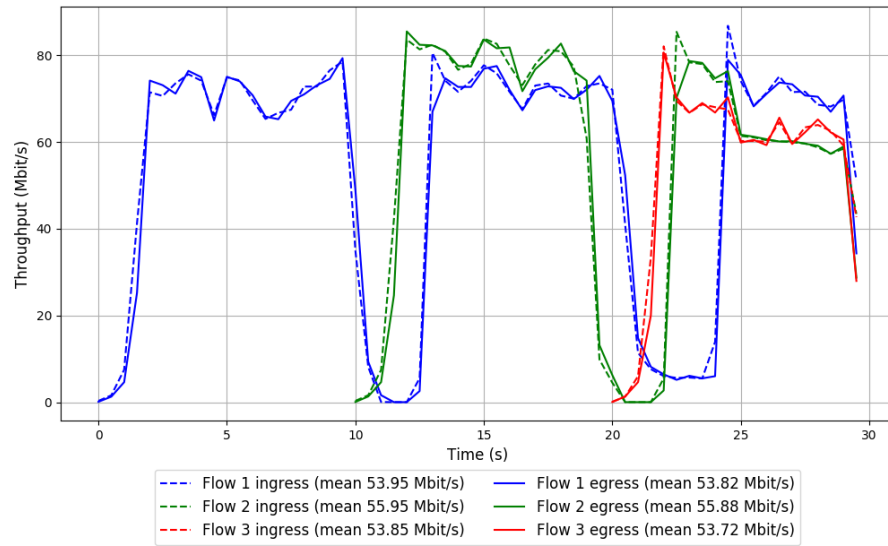
-- Flow 3:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 112.643 ms

Loss rate: 2.53%

Run 5: Report of QUIC Cubic — Data Link

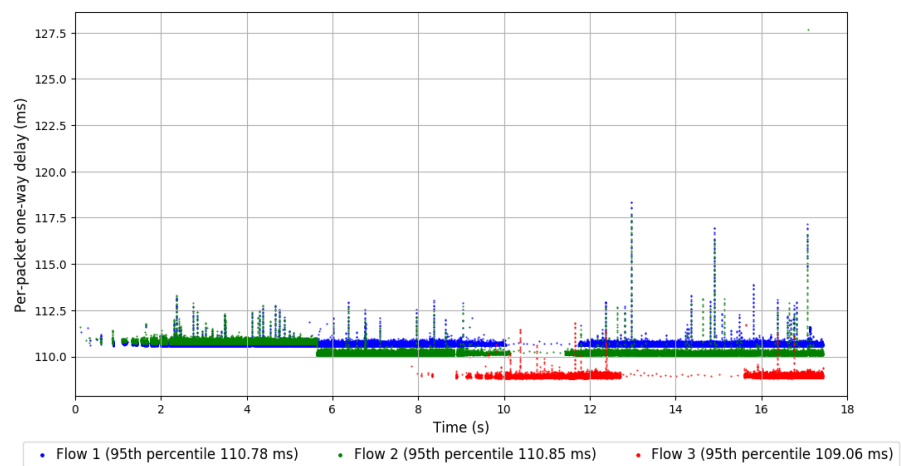
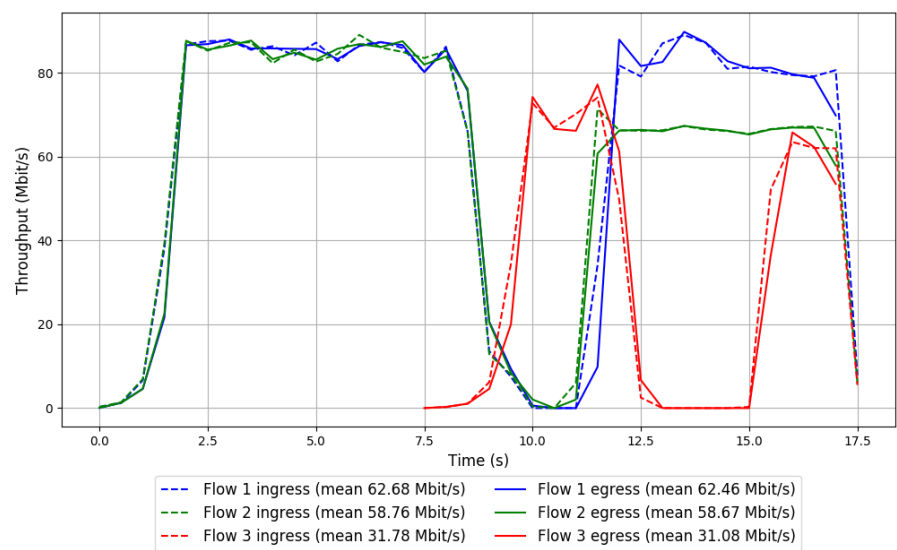


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 16:40:36

End at: 2018-01-02 16:41:06

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 16:54:59

End at: 2018-01-02 16:55:29

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.86 Mbit/s

95th percentile per-packet one-way delay: 113.198 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 113.250 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 110.217 ms

Loss rate: 0.41%

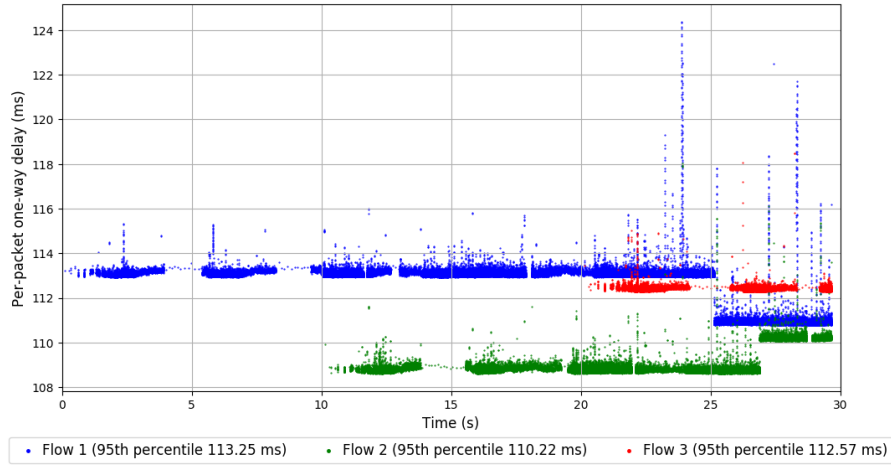
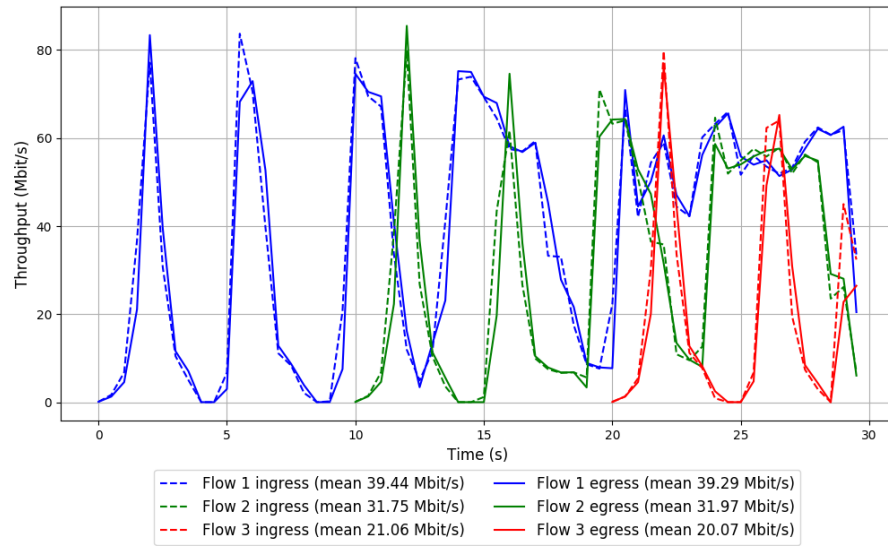
-- Flow 3:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 112.569 ms

Loss rate: 6.86%

Run 7: Report of QUIC Cubic — Data Link

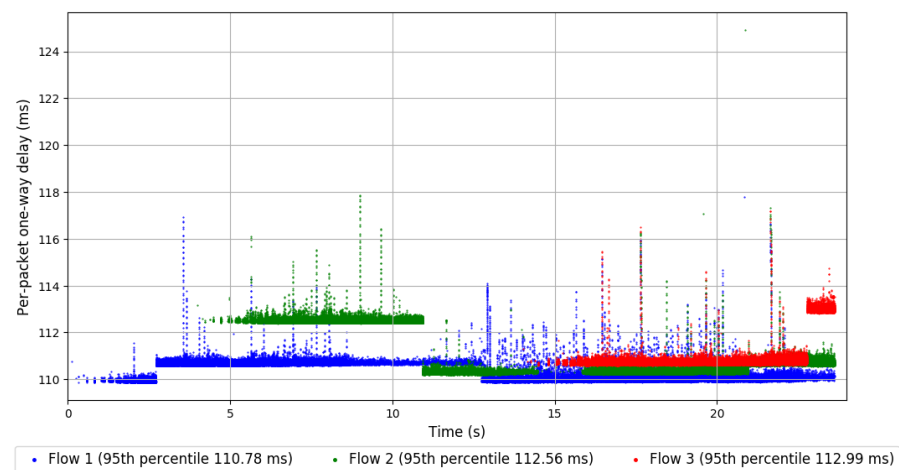
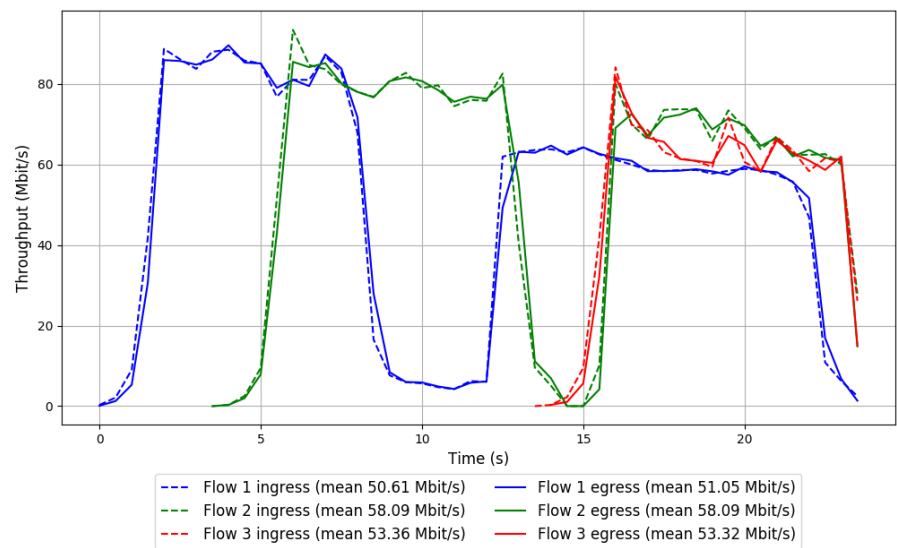


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 17:09:47

End at: 2018-01-02 17:10:17

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 17:24:01

End at: 2018-01-02 17:24:31

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.75 Mbit/s

95th percentile per-packet one-way delay: 113.013 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 63.20 Mbit/s

95th percentile per-packet one-way delay: 112.349 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 111.527 ms

Loss rate: 0.13%

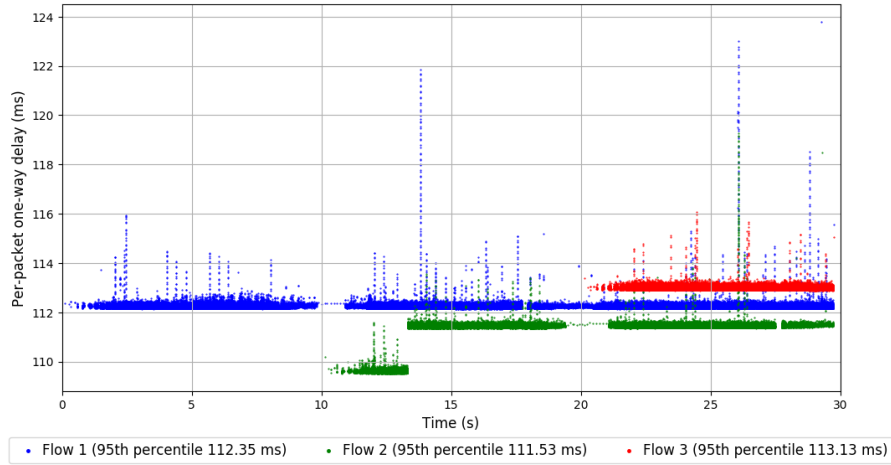
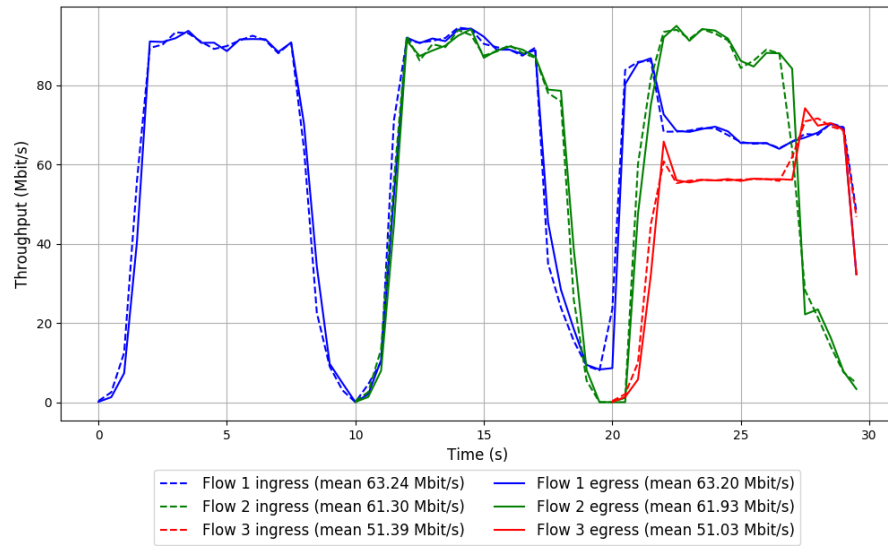
-- Flow 3:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 113.134 ms

Loss rate: 2.97%

Run 9: Report of QUIC Cubic — Data Link

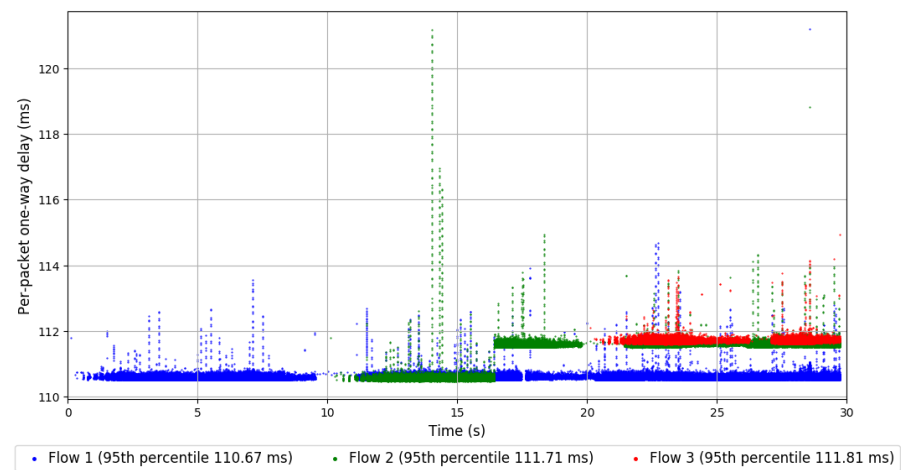
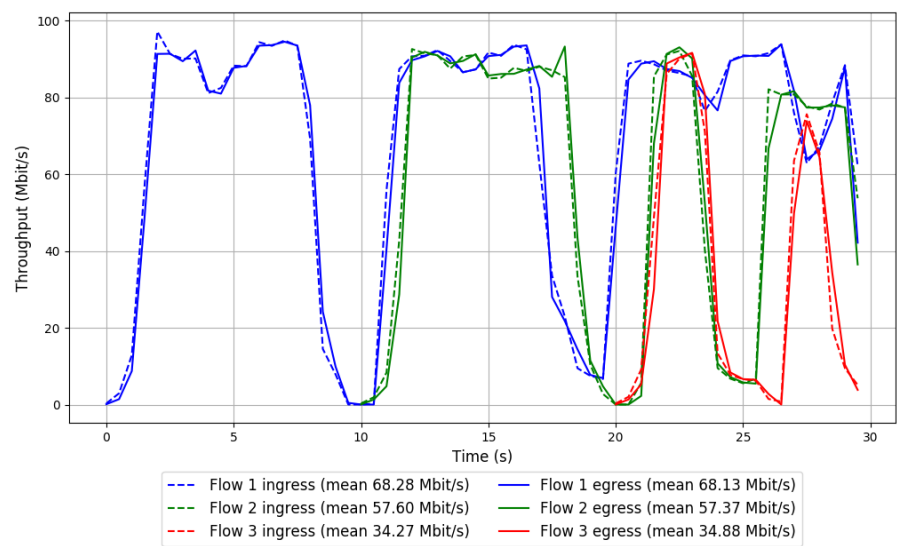


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 17:39:27
End at: 2018-01-02 17:39:57

# Below is generated by plot.py at 2018-01-02 20:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.41 Mbit/s
95th percentile per-packet one-way delay: 111.720 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 68.13 Mbit/s
95th percentile per-packet one-way delay: 110.673 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 57.37 Mbit/s
95th percentile per-packet one-way delay: 111.711 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 111.815 ms
Loss rate: 0.47%
```

Run 10: Report of QUIC Cubic — Data Link

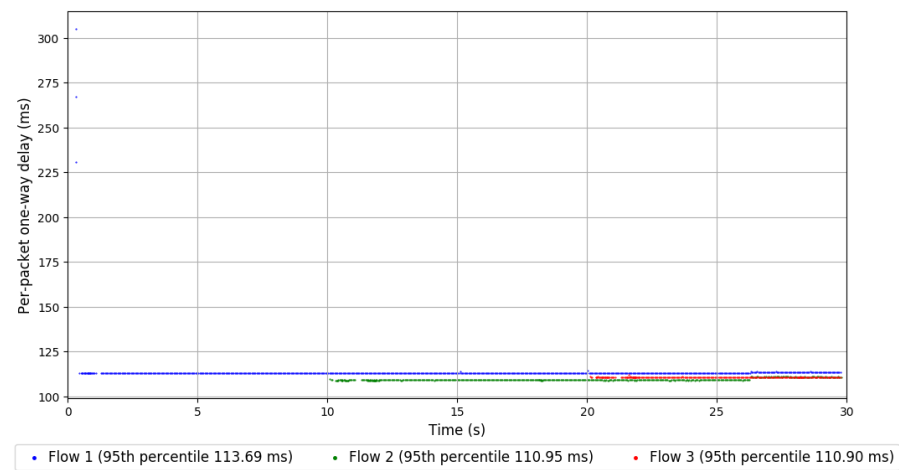
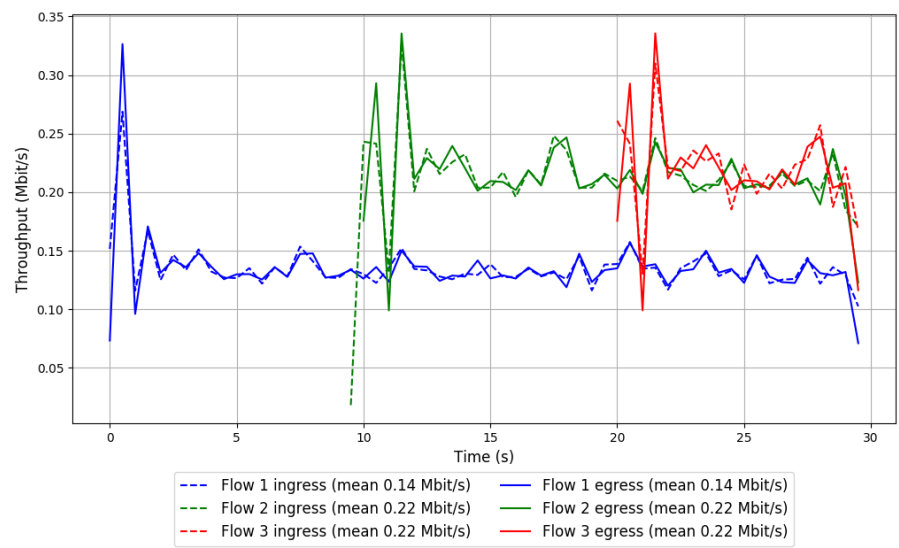


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 15:36:08
End at: 2018-01-02 15:36:38

# Below is generated by plot.py at 2018-01-02 20:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 113.656 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 113.685 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.948 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.896 ms
Loss rate: 2.26%
```

Run 1: Report of SCReAM — Data Link

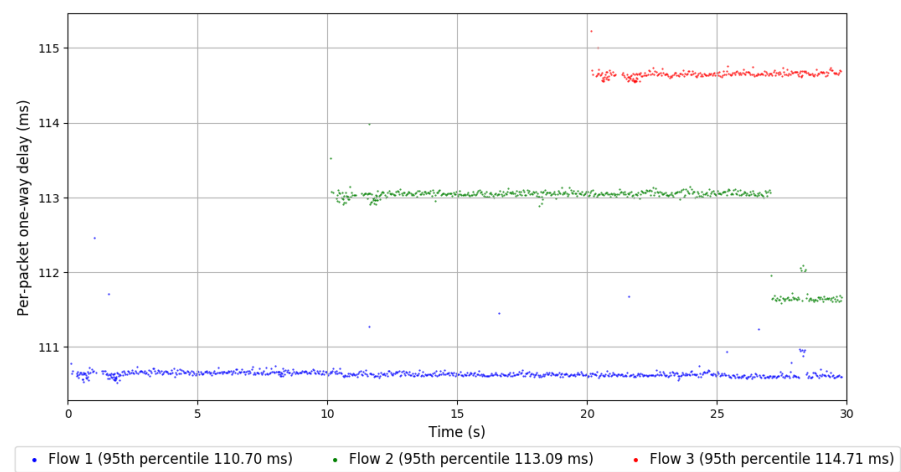
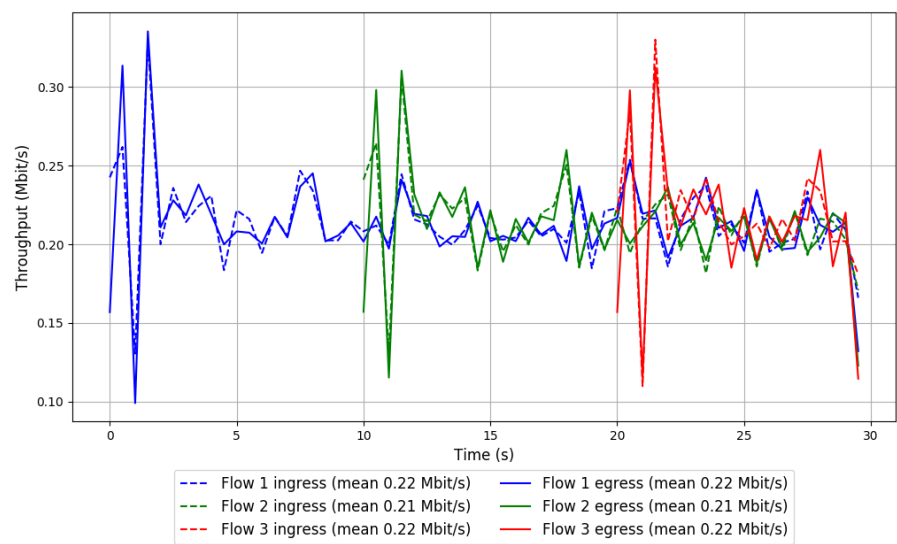


```
Run 2: Statistics of SCReAM

Start at: 2018-01-02 15:51:49
End at: 2018-01-02 15:52:19

# Below is generated by plot.py at 2018-01-02 20:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.668 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.697 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.095 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.707 ms
Loss rate: 2.24%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-02 16:07:03

End at: 2018-01-02 16:07:33

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 114.688 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.706 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.903 ms

Loss rate: 1.05%

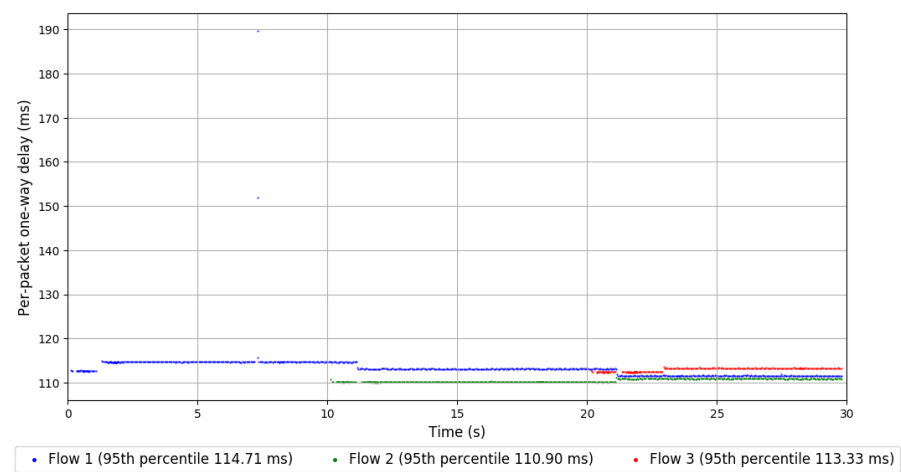
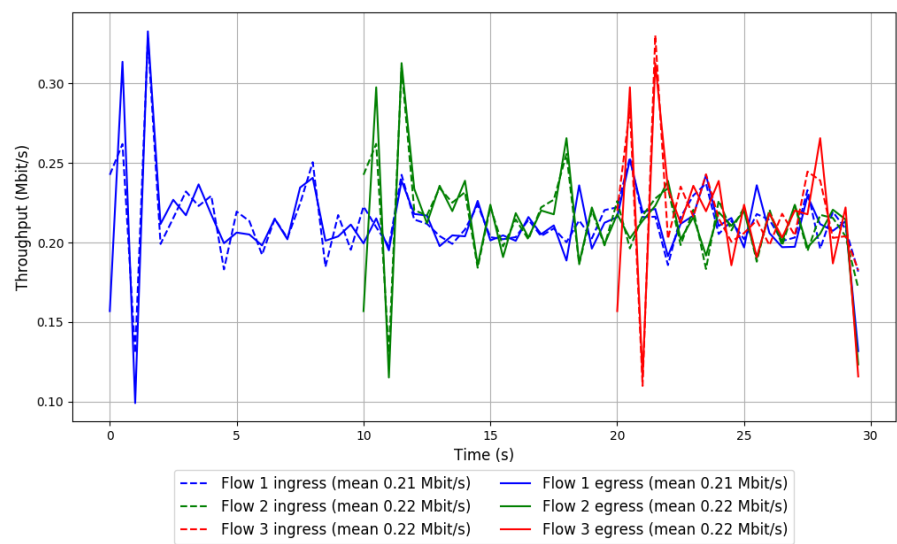
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.328 ms

Loss rate: 2.25%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-02 16:22:13

End at: 2018-01-02 16:22:43

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 113.054 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.264 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 113.017 ms

Loss rate: 1.15%

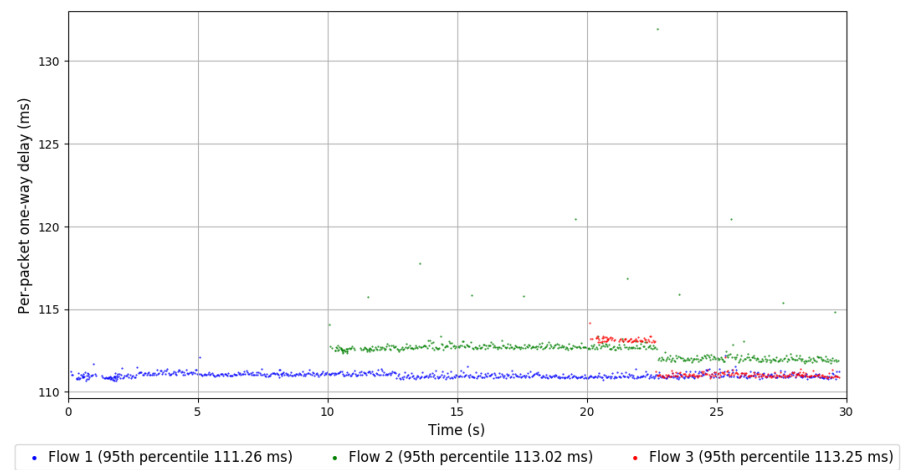
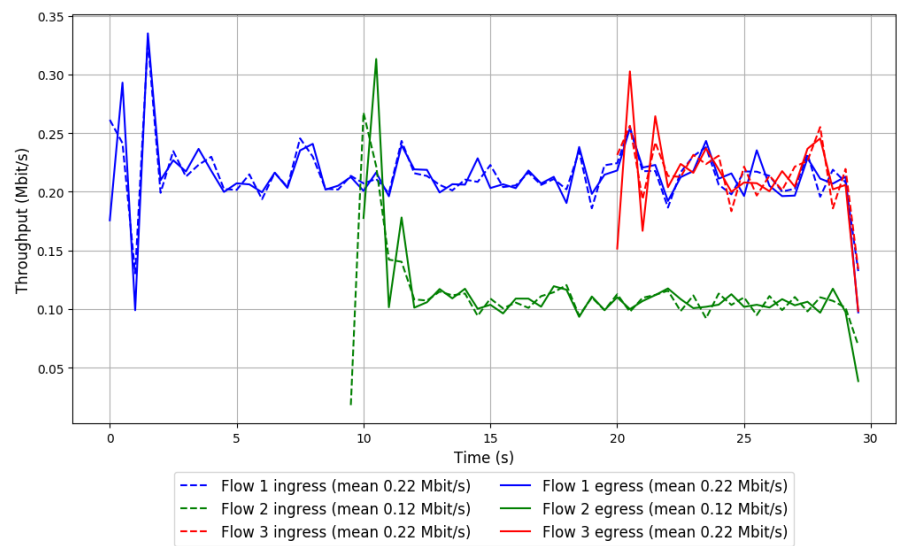
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.255 ms

Loss rate: 1.94%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-02 16:36:08

End at: 2018-01-02 16:36:38

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 113.655 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.498 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.952 ms

Loss rate: 1.23%

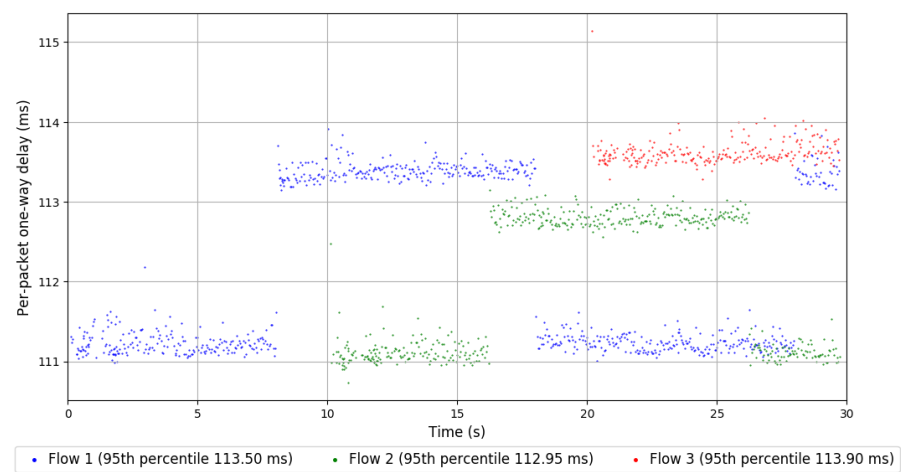
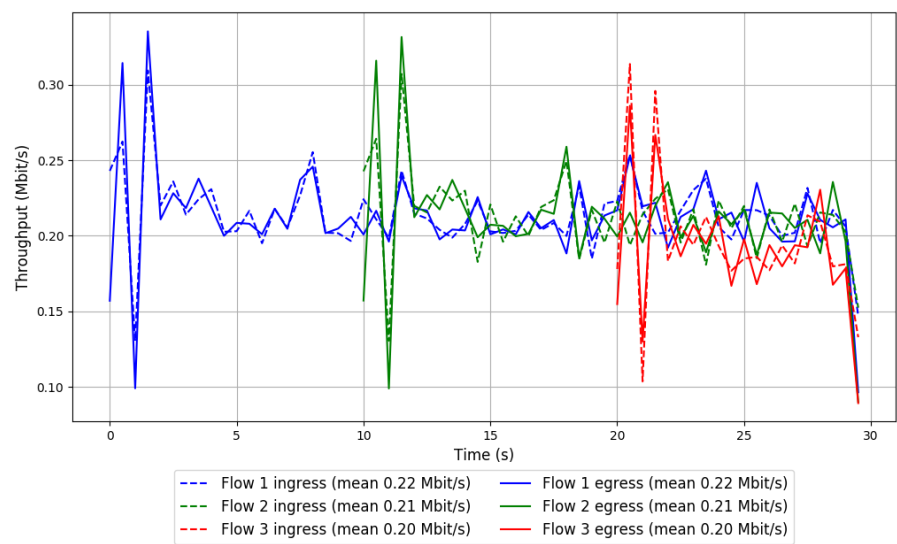
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 113.898 ms

Loss rate: 2.29%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-02 16:50:37

End at: 2018-01-02 16:51:07

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.843 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.041 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.898 ms

Loss rate: 1.05%

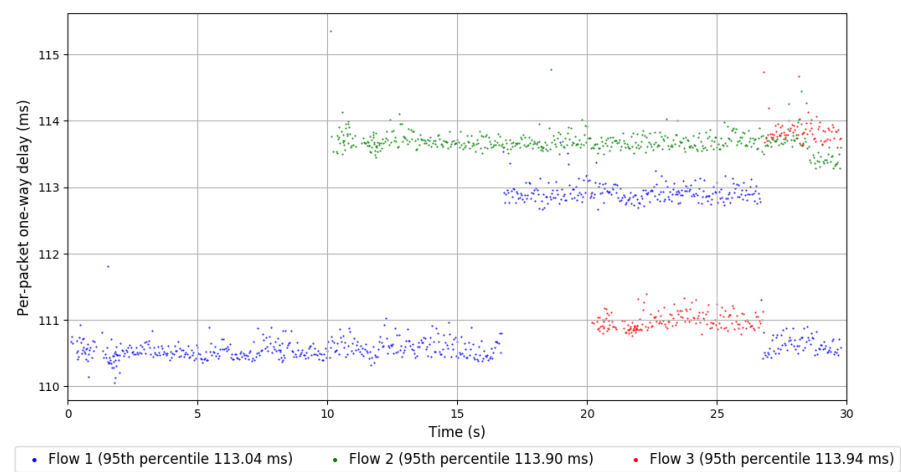
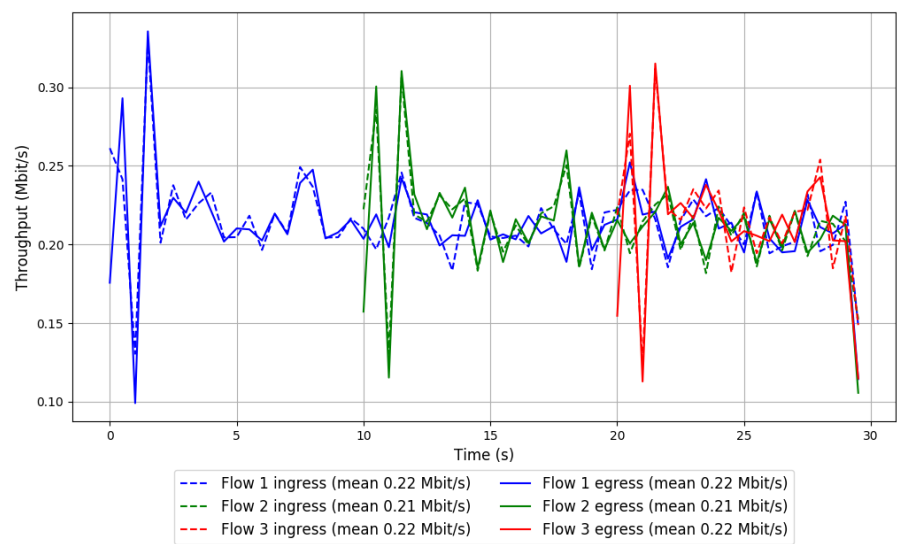
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.938 ms

Loss rate: 1.91%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-02 17:05:20

End at: 2018-01-02 17:05:50

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 113.252 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 113.273 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 113.220 ms

Loss rate: 0.97%

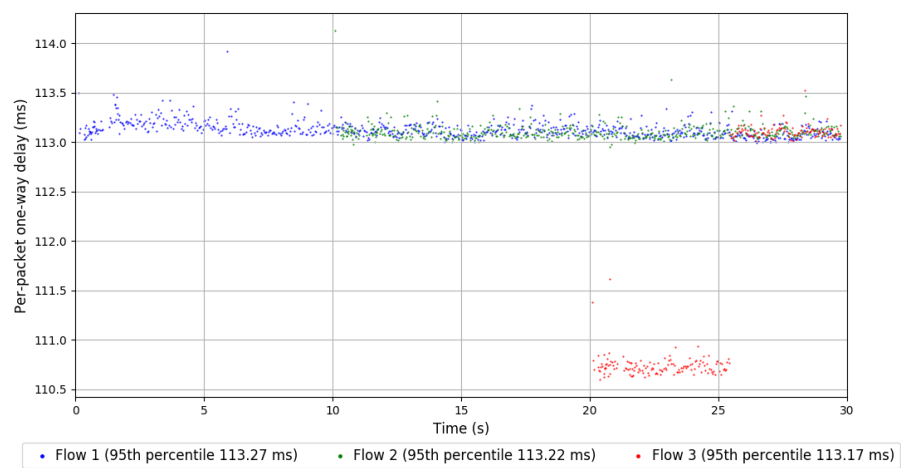
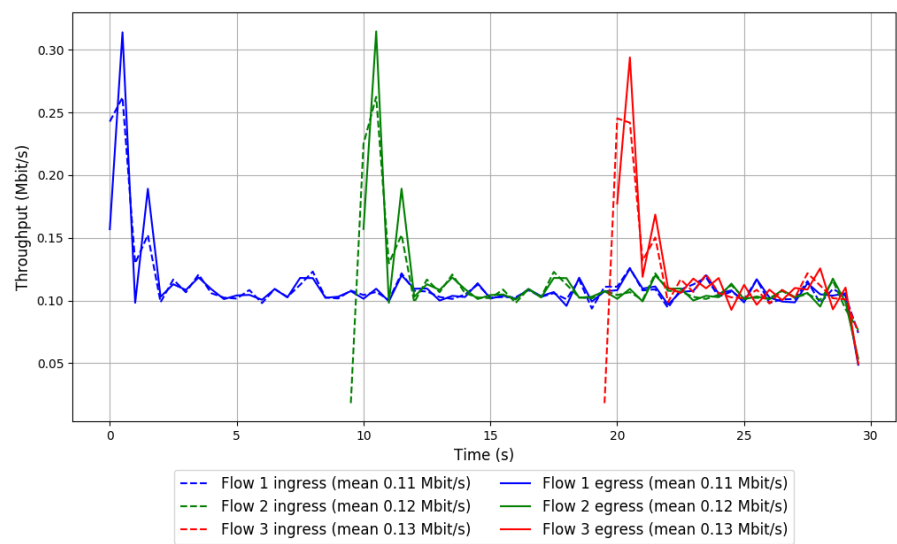
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 113.165 ms

Loss rate: 1.68%

Run 7: Report of SCSReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-02 17:19:40

End at: 2018-01-02 17:20:10

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 113.454 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.296 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.569 ms

Loss rate: 1.23%

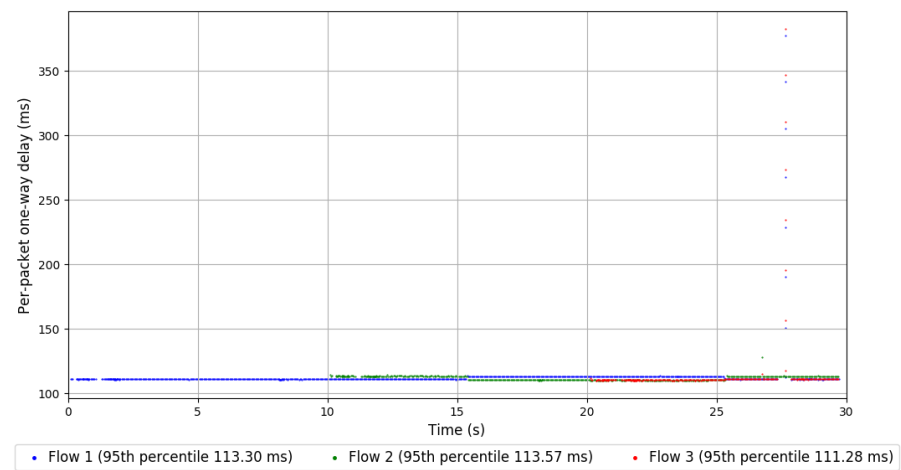
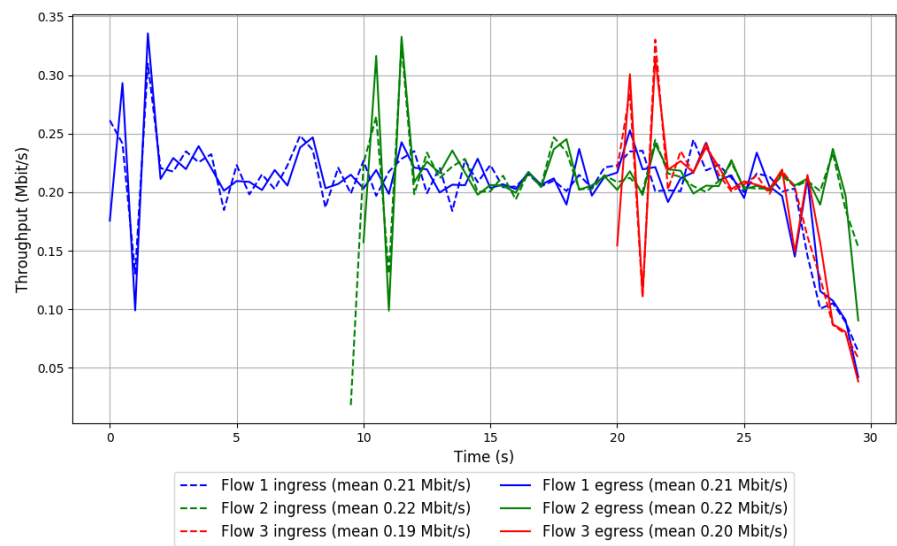
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 111.282 ms

Loss rate: 1.02%

Run 8: Report of SCRaM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-02 17:34:58

End at: 2018-01-02 17:35:28

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.937 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.955 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.778 ms

Loss rate: 1.05%

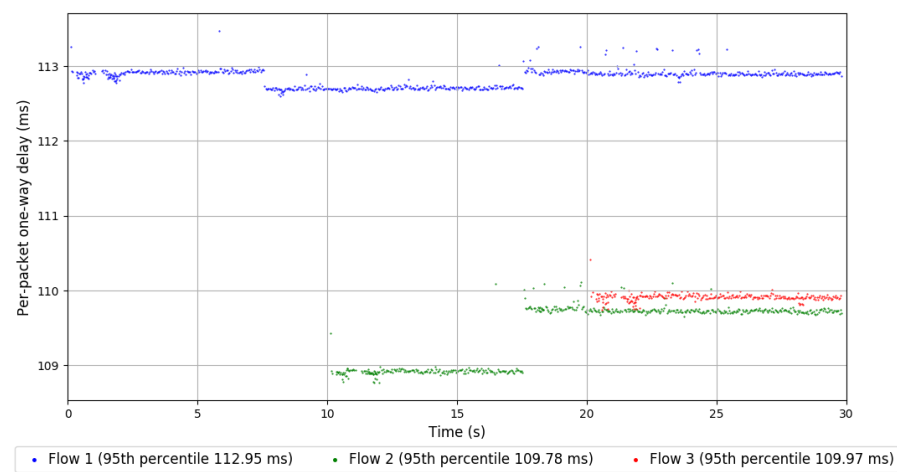
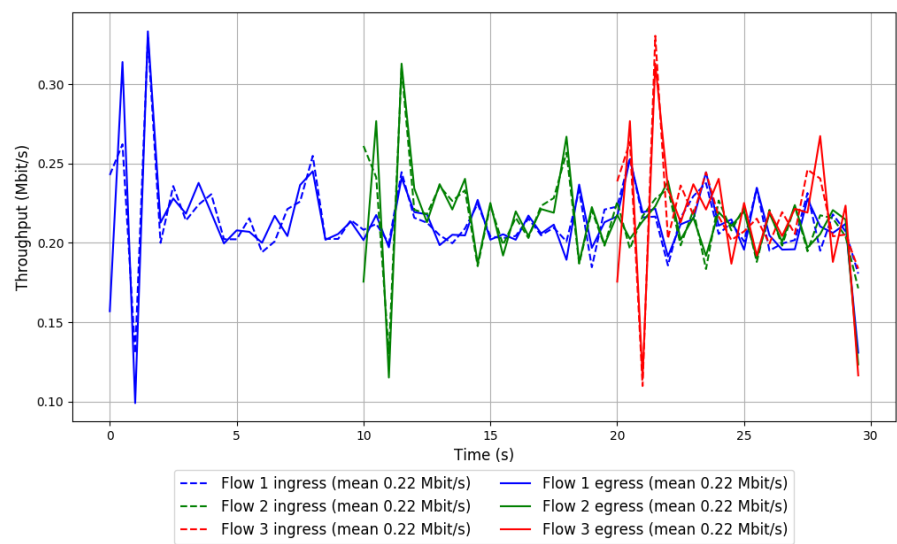
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.972 ms

Loss rate: 2.26%

Run 9: Report of SReAM — Data Link

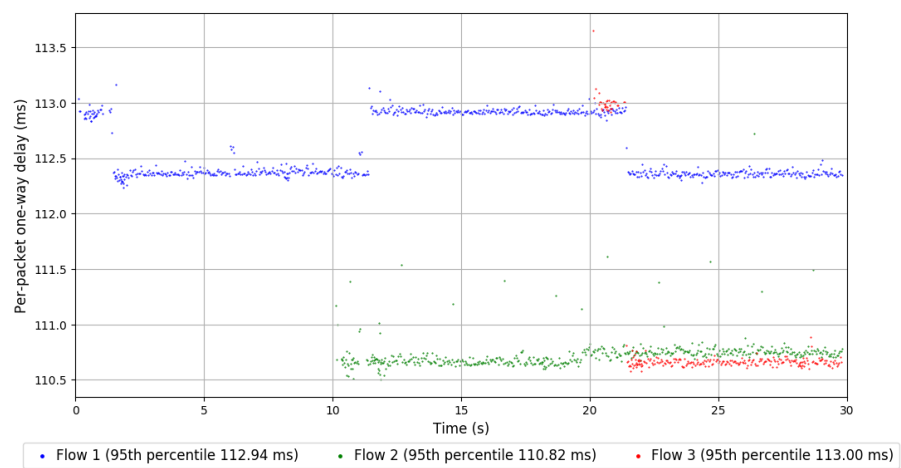
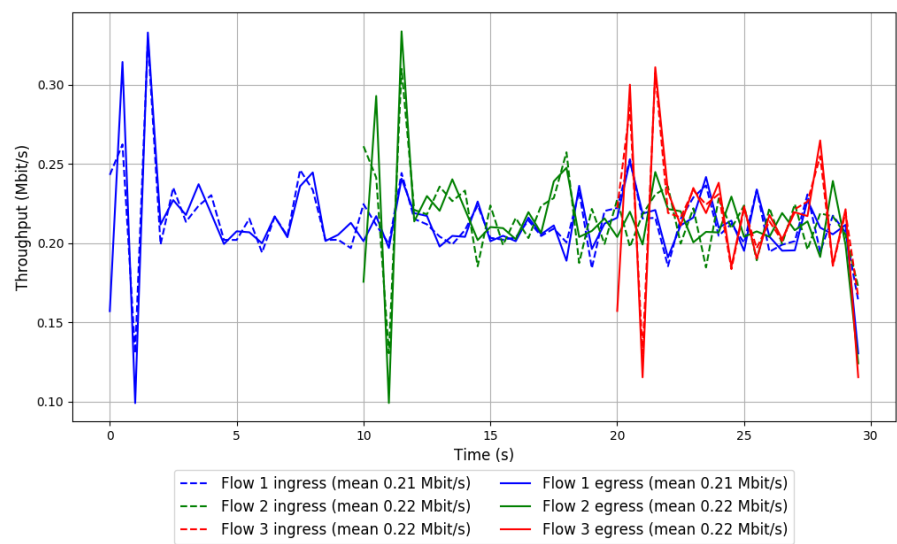


```
Run 10: Statistics of SReAM

Start at: 2018-01-02 17:50:24
End at: 2018-01-02 17:50:54

# Below is generated by plot.py at 2018-01-02 20:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.942 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.944 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.821 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.003 ms
Loss rate: 2.25%
```

Run 10: Report of SReAM — Data Link

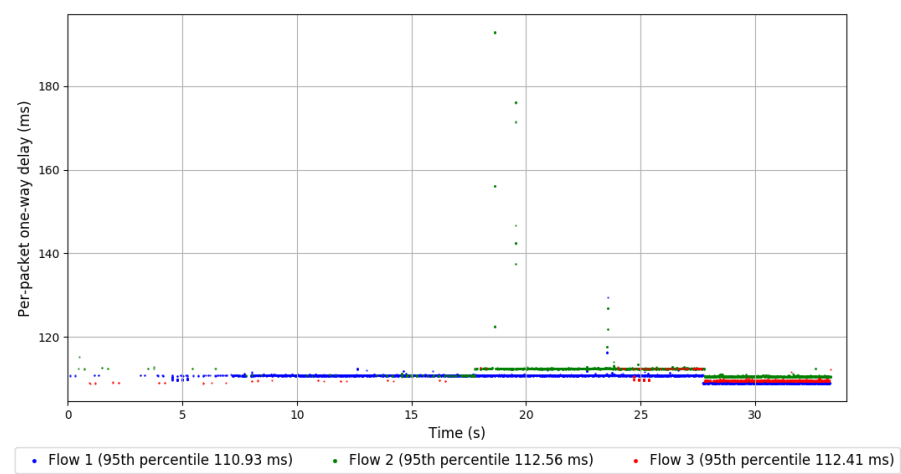
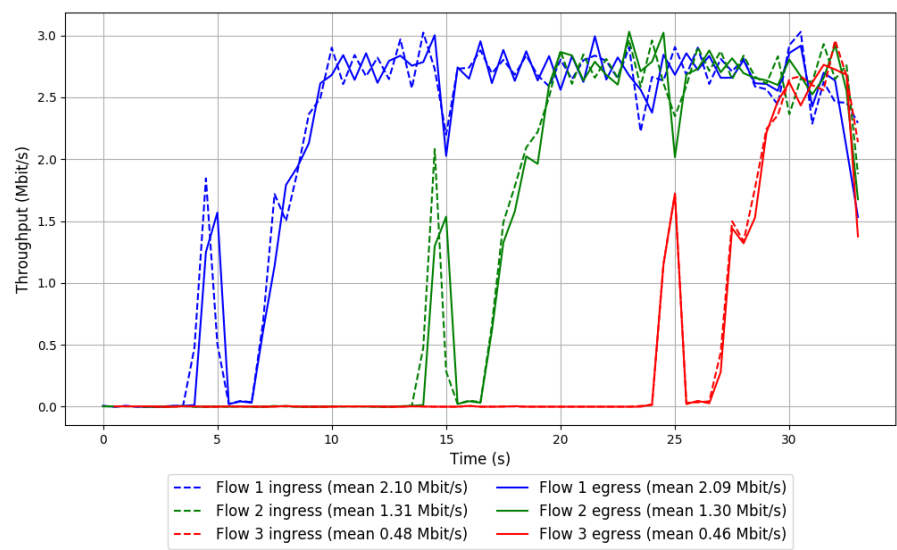


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 15:37:52
End at: 2018-01-02 15:38:22

# Below is generated by plot.py at 2018-01-02 20:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 112.489 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 110.931 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 112.565 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 112.407 ms
Loss rate: 4.61%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-02 15:53:34

End at: 2018-01-02 15:54:04

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 112.476 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 109.676 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 112.540 ms

Loss rate: 1.14%

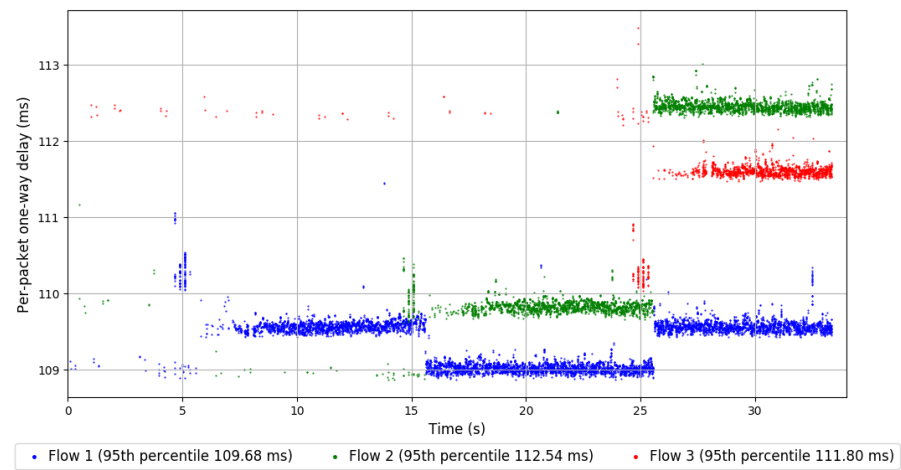
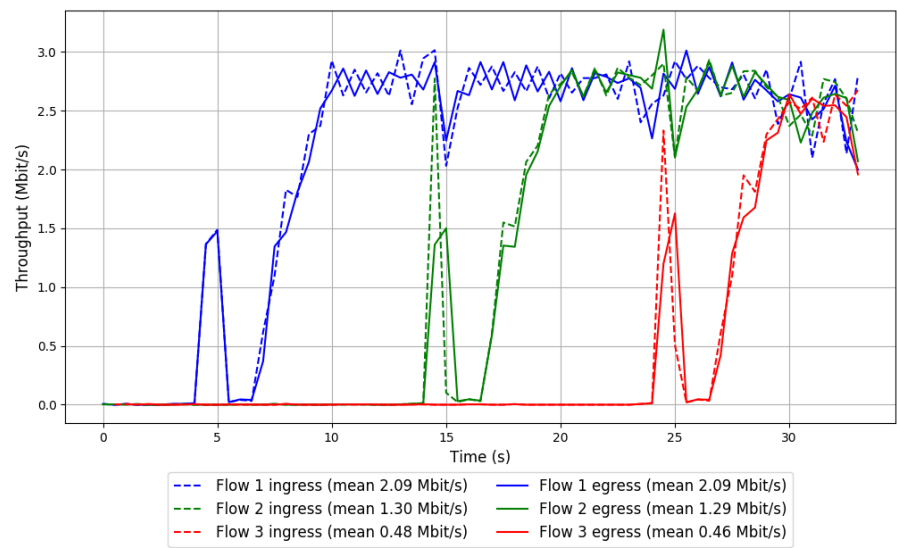
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 111.795 ms

Loss rate: 4.01%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 16:08:47

End at: 2018-01-02 16:09:17

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 113.535 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 112.637 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 113.609 ms

Loss rate: 1.27%

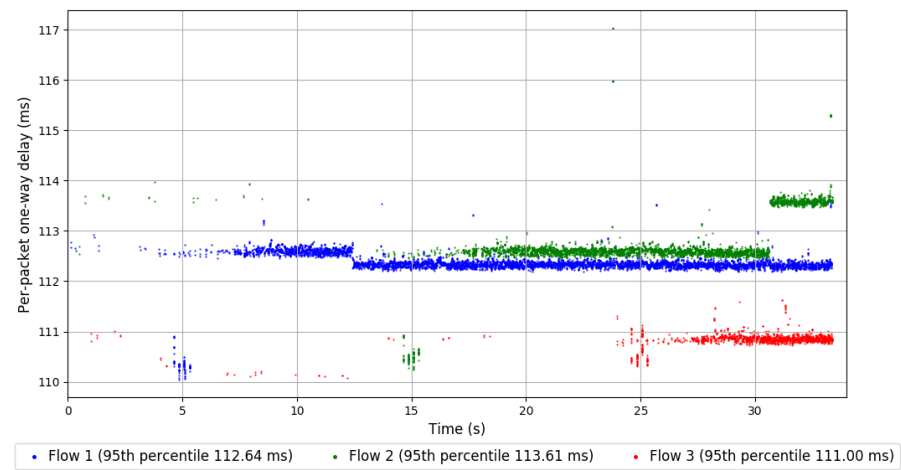
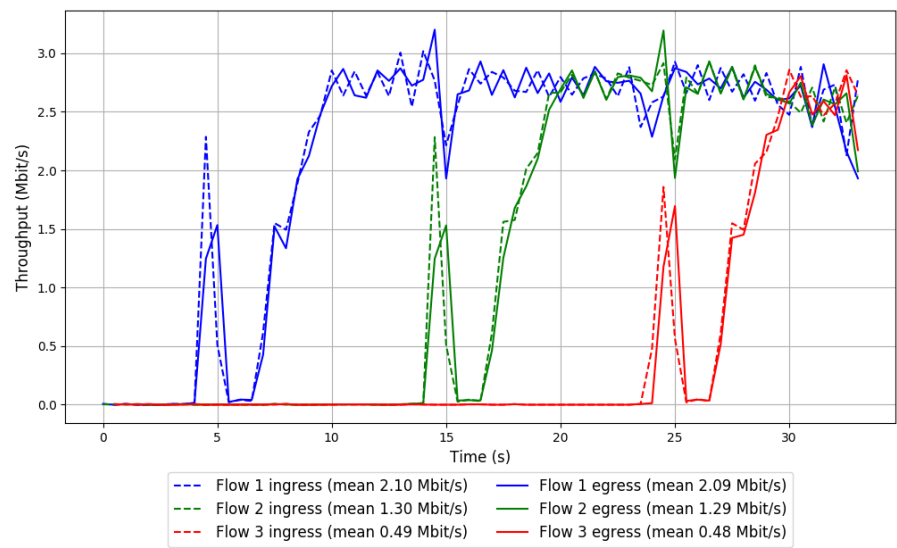
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 110.999 ms

Loss rate: 3.57%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 16:23:58

End at: 2018-01-02 16:24:28

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 113.436 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 112.013 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 113.369 ms

Loss rate: 1.80%

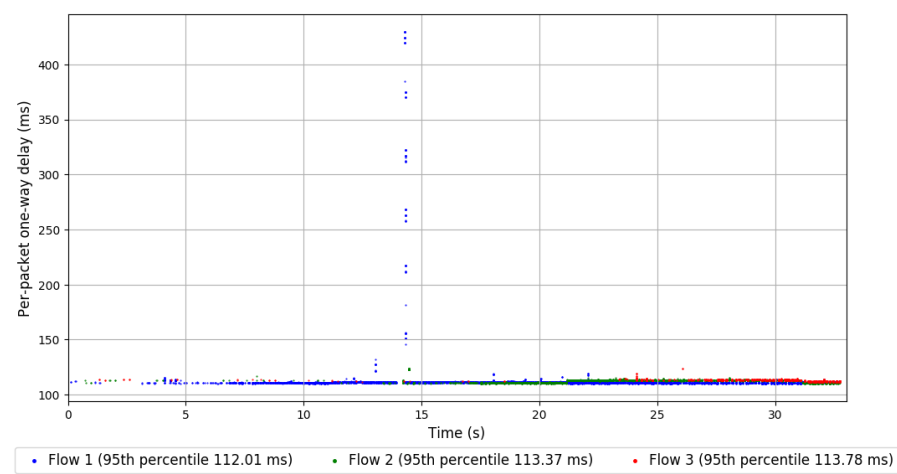
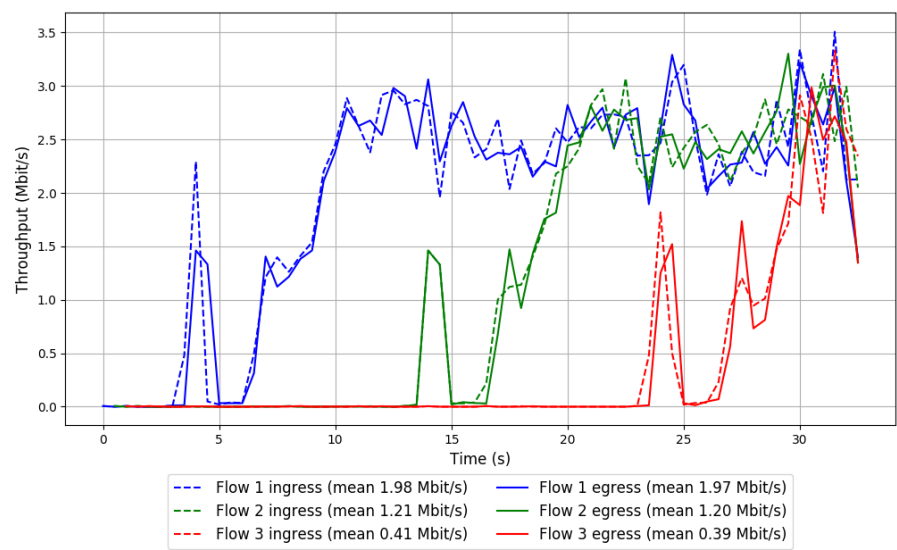
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 113.781 ms

Loss rate: 6.68%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 16:37:52

End at: 2018-01-02 16:38:22

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 115.347 ms

Loss rate: 2.13%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 111.366 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 111.224 ms

Loss rate: 2.06%

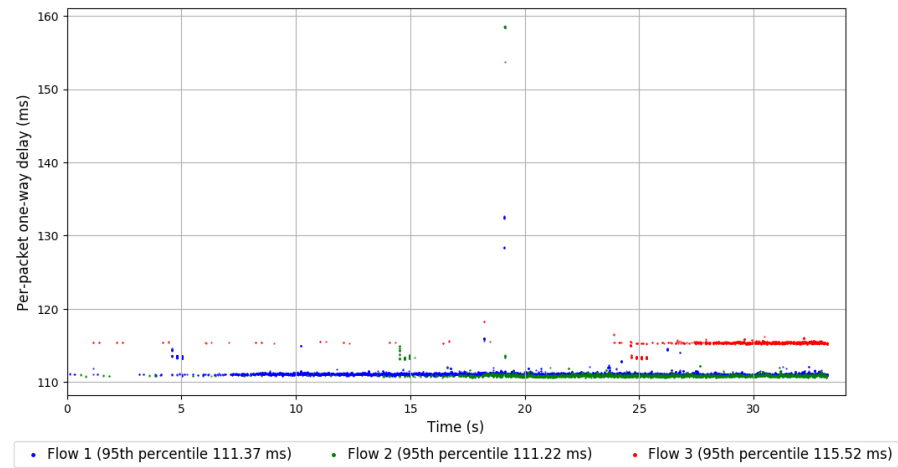
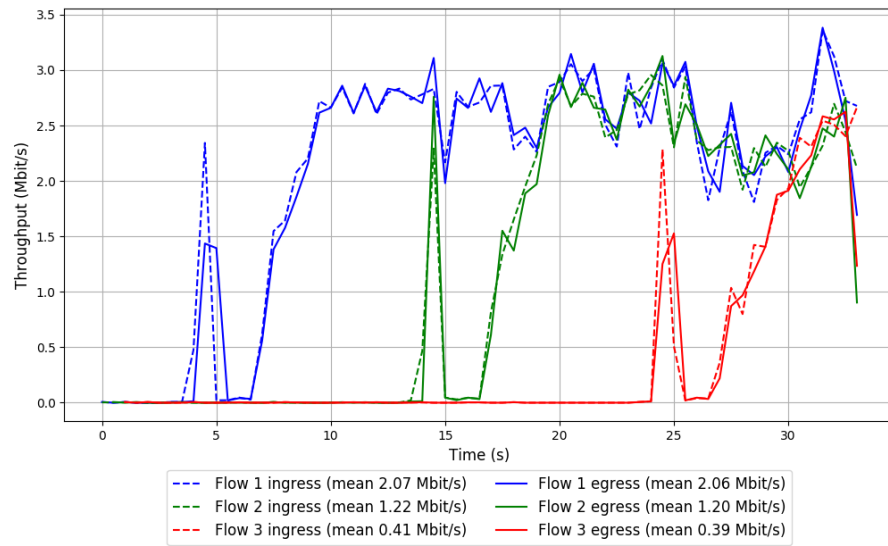
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 115.519 ms

Loss rate: 6.95%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 16:52:24

End at: 2018-01-02 16:52:54

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 113.636 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 111.571 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 113.582 ms

Loss rate: 2.07%

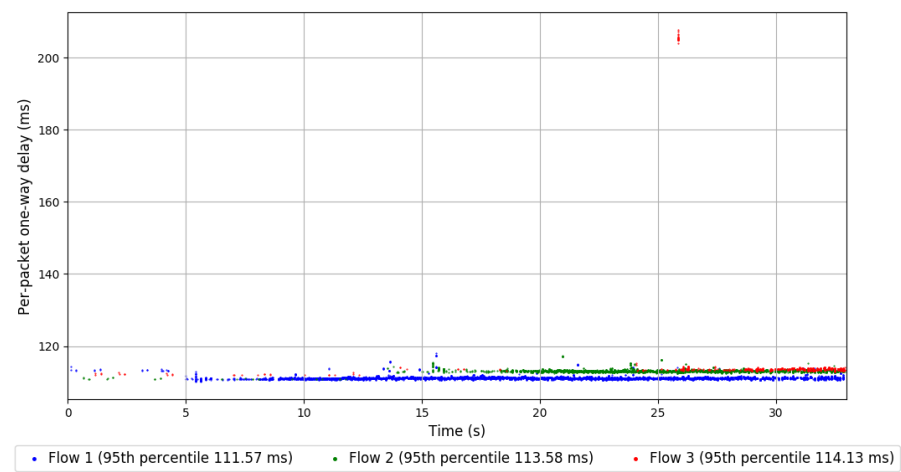
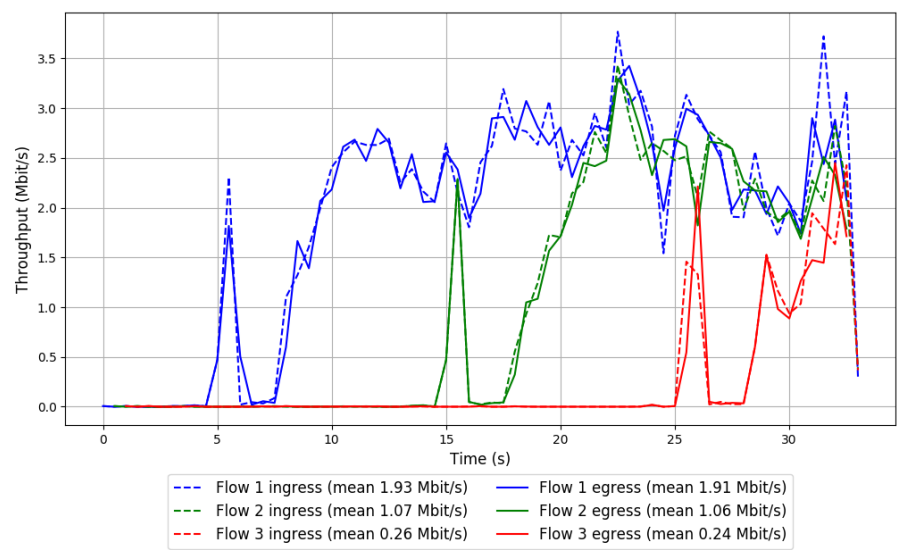
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 114.132 ms

Loss rate: 6.59%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-02 17:07:05

End at: 2018-01-02 17:07:35

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 112.880 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 112.910 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 110.723 ms

Loss rate: 1.16%

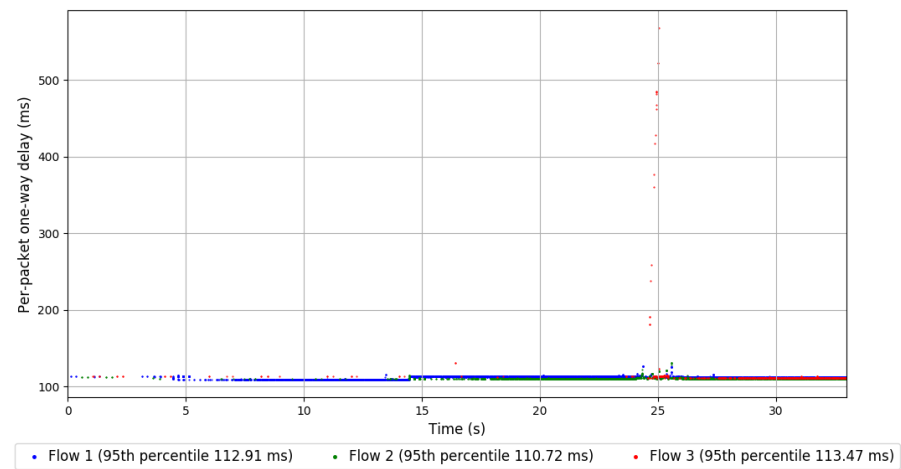
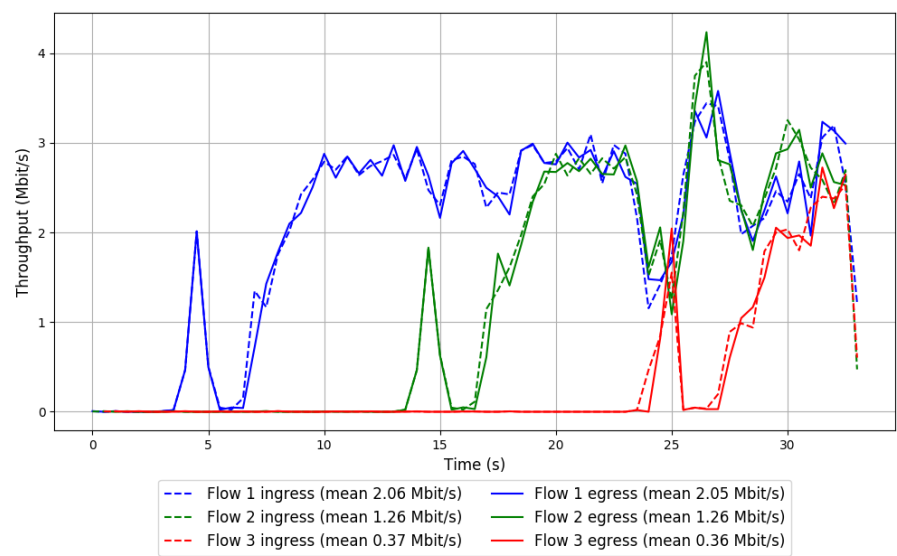
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 113.466 ms

Loss rate: 4.36%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 17:21:25

End at: 2018-01-02 17:21:55

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 113.537 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 111.630 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 113.809 ms

Loss rate: 2.22%

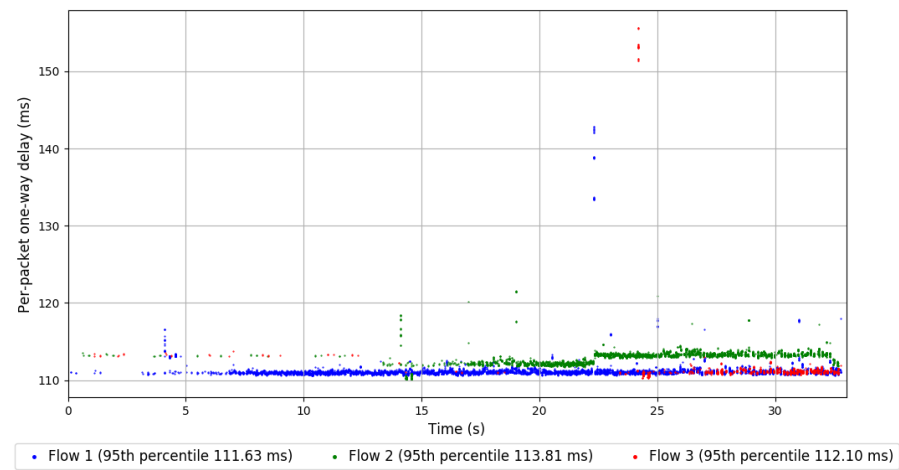
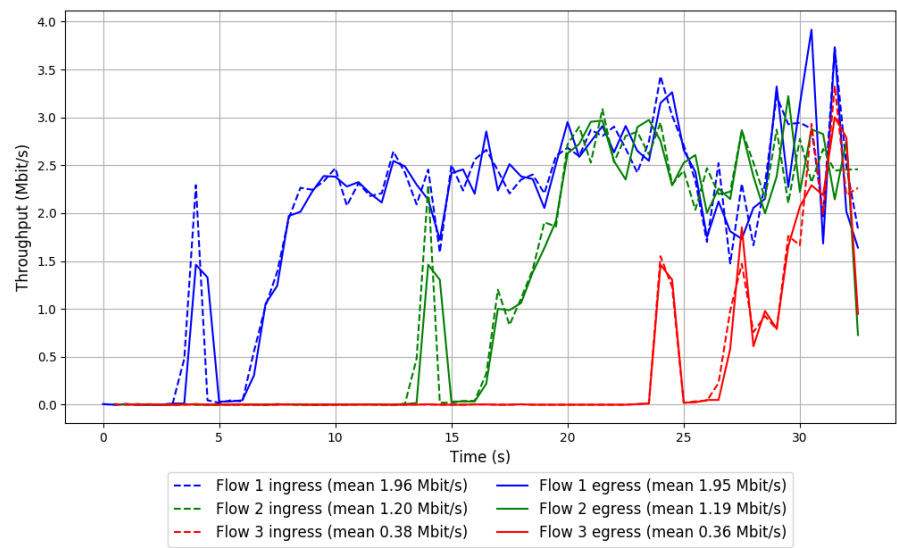
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 112.104 ms

Loss rate: 6.17%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 17:36:42

End at: 2018-01-02 17:37:12

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 113.115 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 113.138 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 112.512 ms

Loss rate: 1.39%

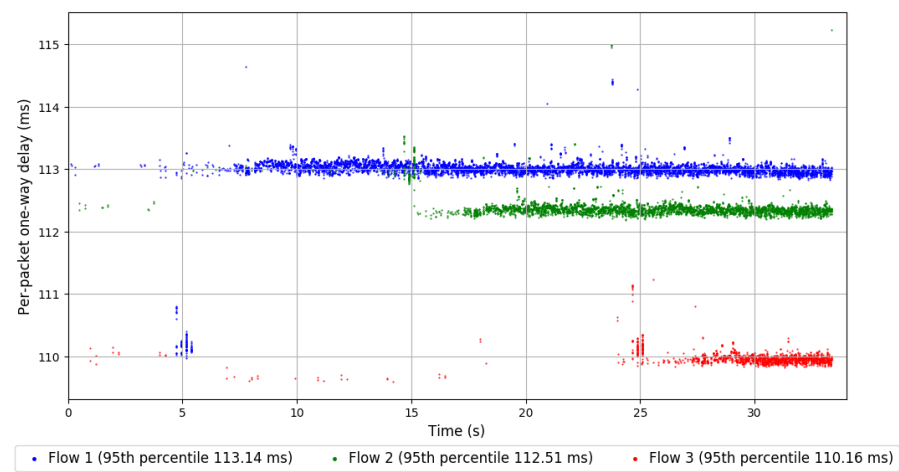
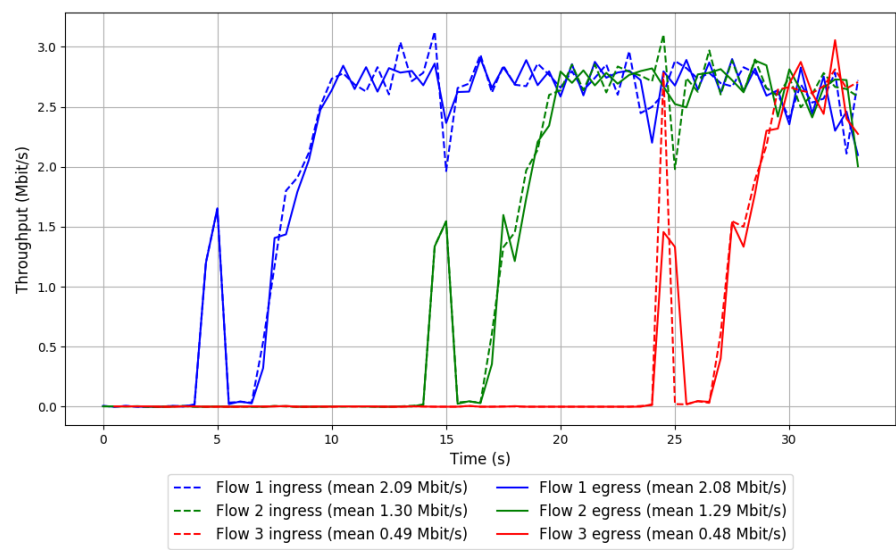
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 110.155 ms

Loss rate: 3.45%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 17:52:09

End at: 2018-01-02 17:52:39

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 112.920 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 109.926 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 111.696 ms

Loss rate: 1.41%

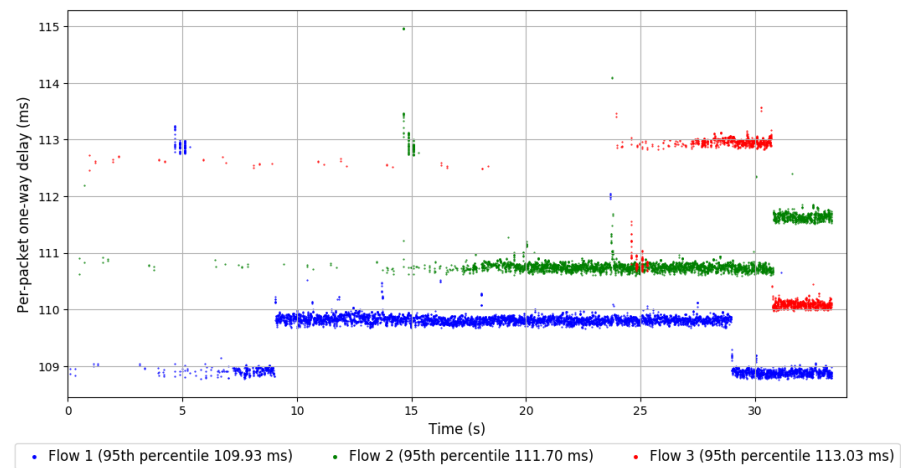
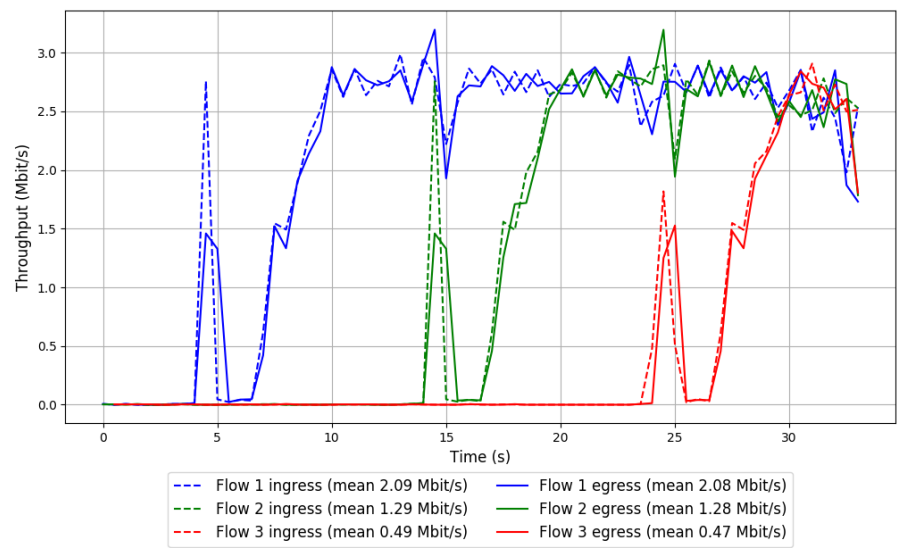
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 113.035 ms

Loss rate: 4.04%

Run 10: Report of WebRTC media — Data Link

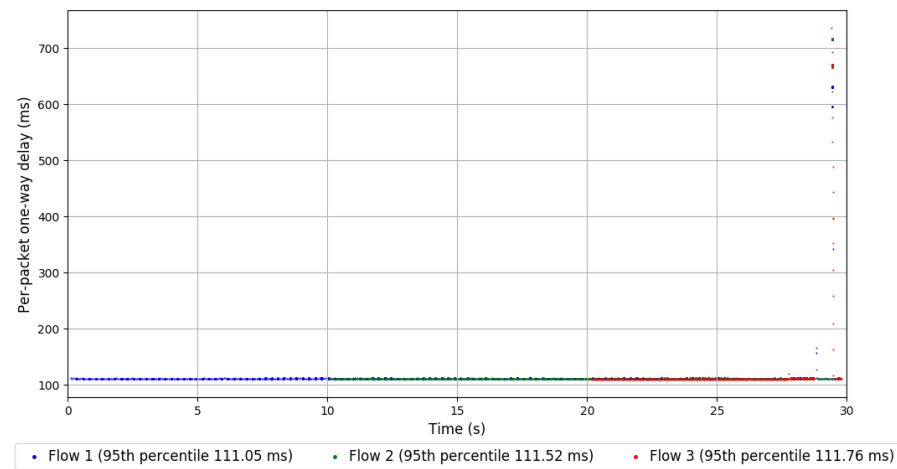
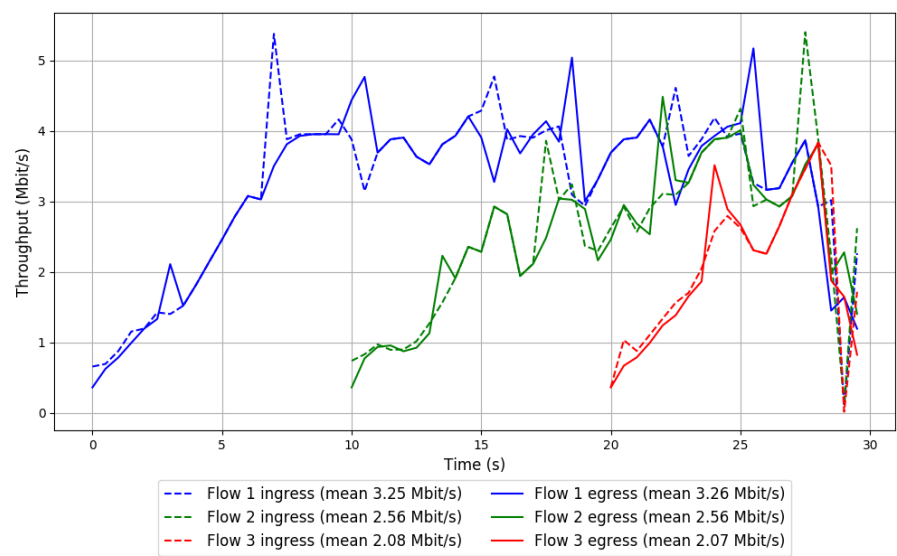


```
Run 1: Statistics of Sprout

Start at: 2018-01-02 15:38:38
End at: 2018-01-02 15:39:08

# Below is generated by plot.py at 2018-01-02 20:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 111.283 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 111.051 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 111.521 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 111.757 ms
Loss rate: 2.19%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 15:54:20

End at: 2018-01-02 15:54:50

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 112.353 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 112.399 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 110.891 ms

Loss rate: 0.16%

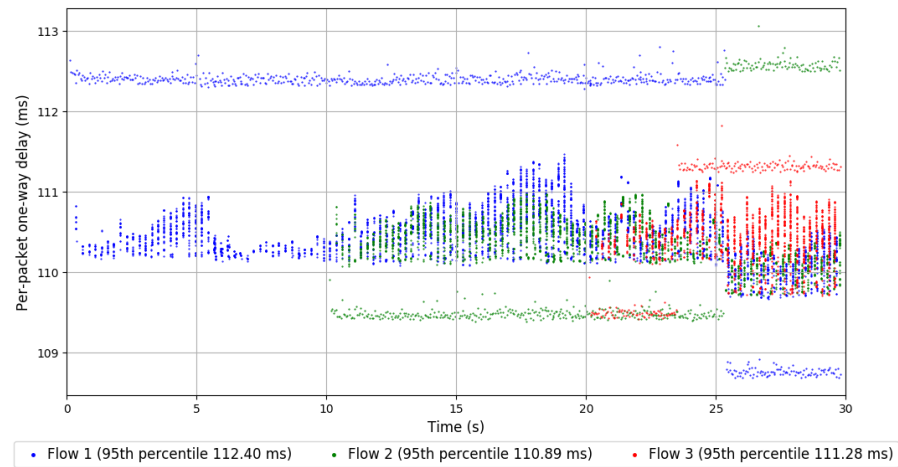
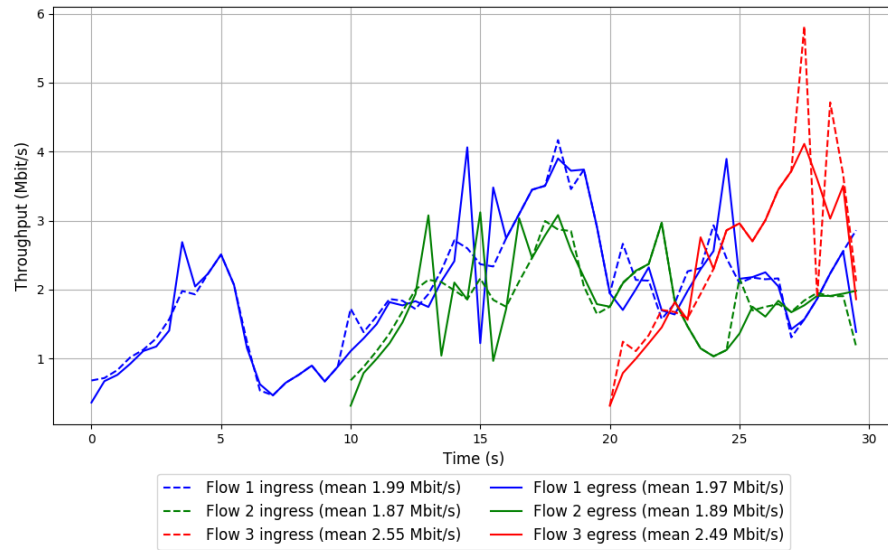
-- Flow 3:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 111.281 ms

Loss rate: 4.22%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 16:09:34

End at: 2018-01-02 16:10:04

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.41 Mbit/s

95th percentile per-packet one-way delay: 111.673 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 111.439 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 112.545 ms

Loss rate: 1.62%

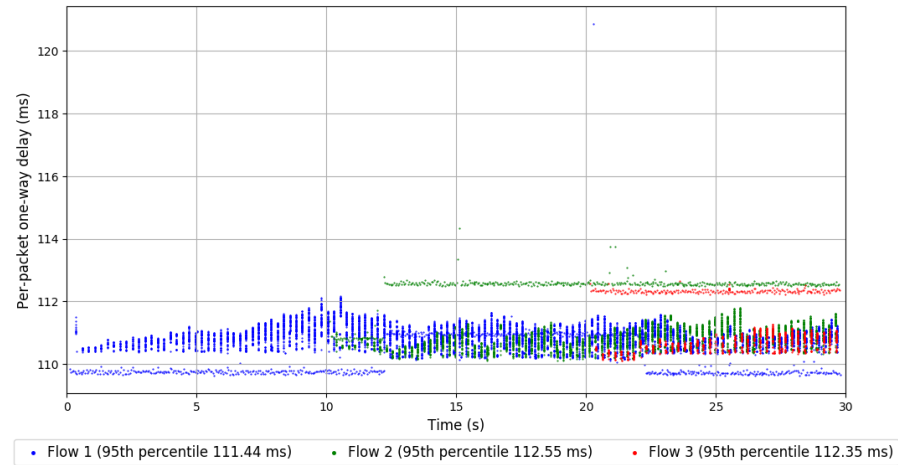
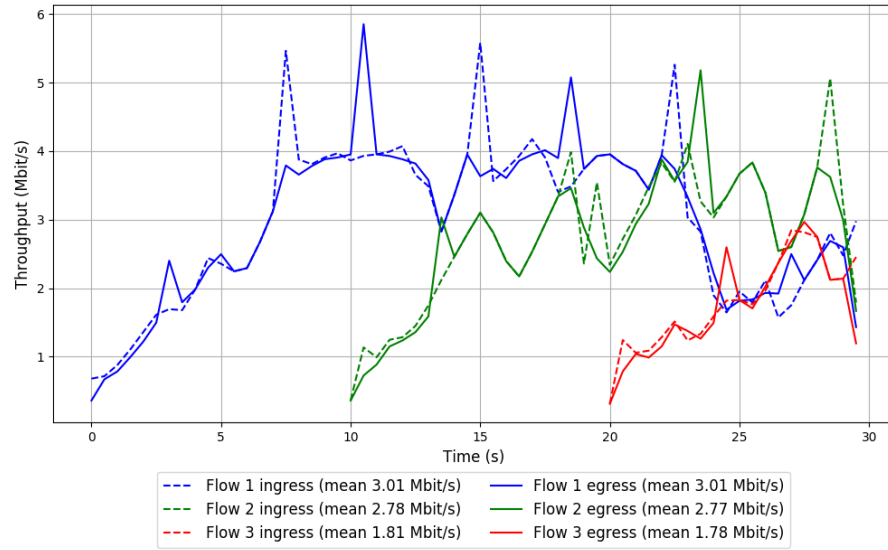
-- Flow 3:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 112.348 ms

Loss rate: 3.56%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 16:24:44

End at: 2018-01-02 16:25:14

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 113.045 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 112.987 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 111.724 ms

Loss rate: 3.09%

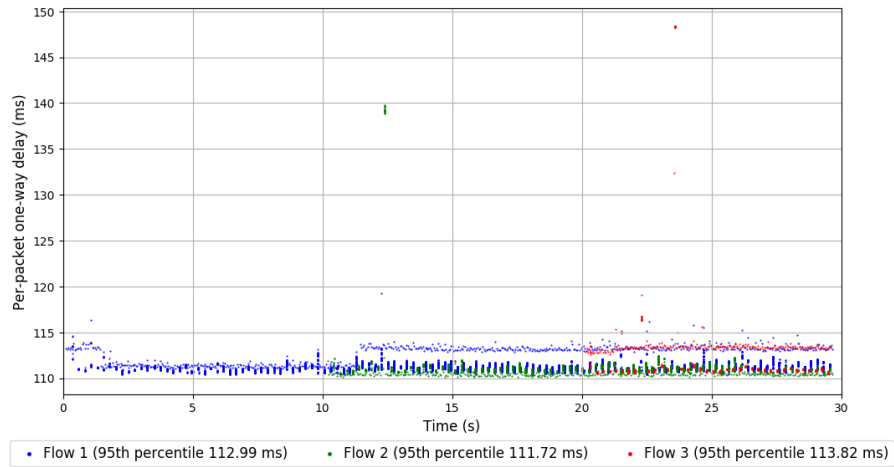
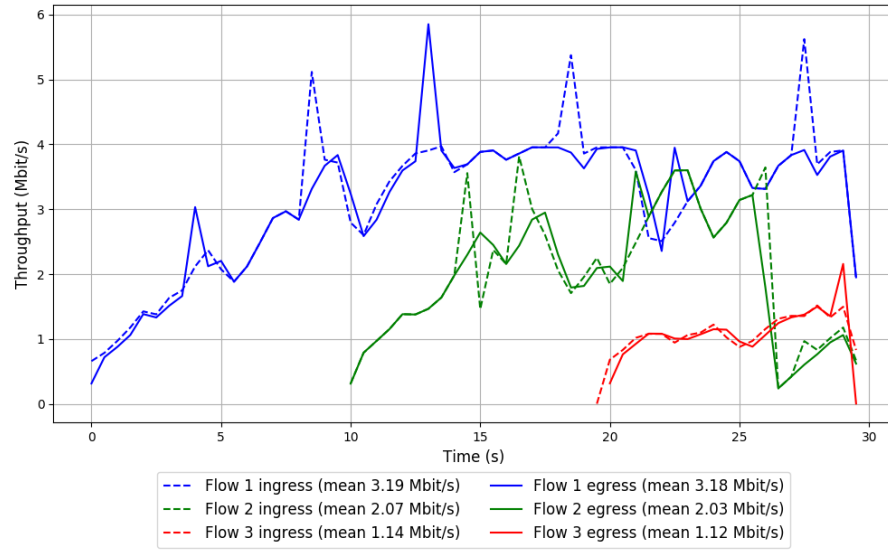
-- Flow 3:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 113.822 ms

Loss rate: 3.72%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-02 16:38:38

End at: 2018-01-02 16:39:08

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 116.235 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 115.979 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 116.408 ms

Loss rate: 3.96%

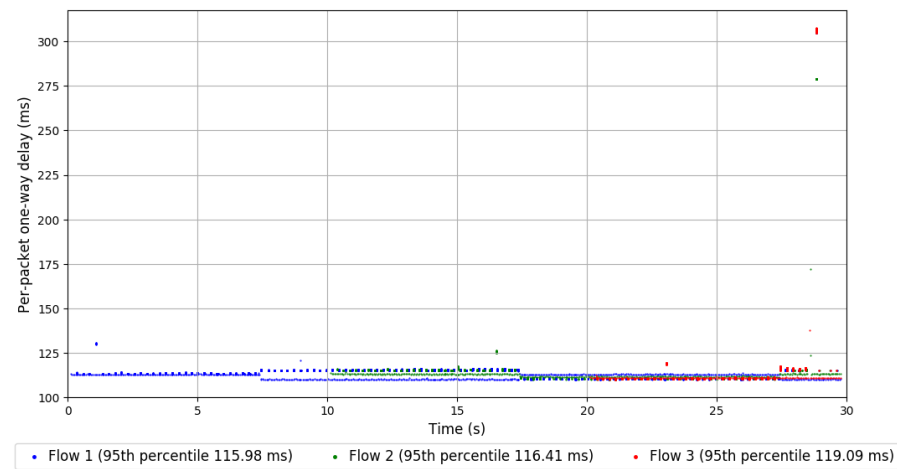
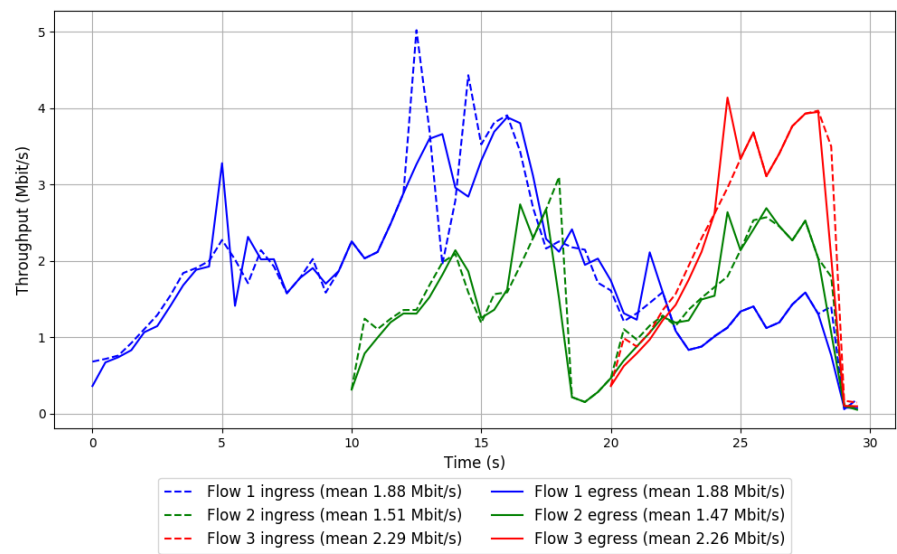
-- Flow 3:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 119.088 ms

Loss rate: 3.52%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-02 16:53:11

End at: 2018-01-02 16:53:41

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 114.368 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 114.326 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 116.179 ms

Loss rate: 2.32%

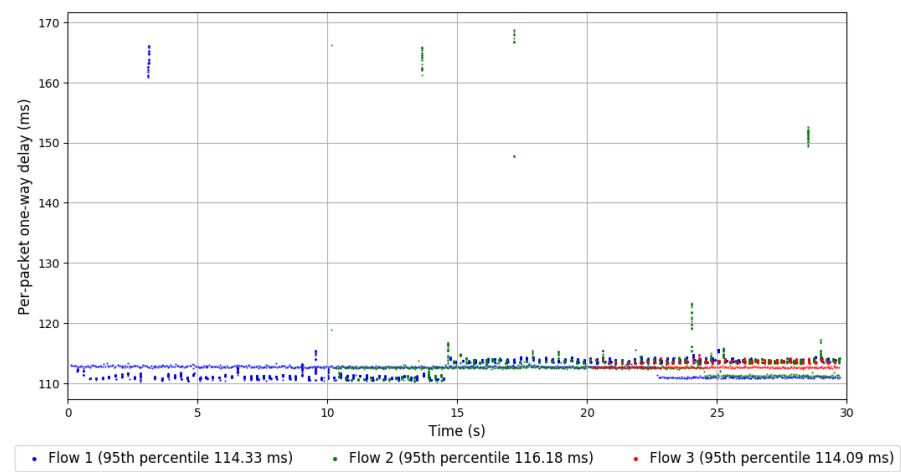
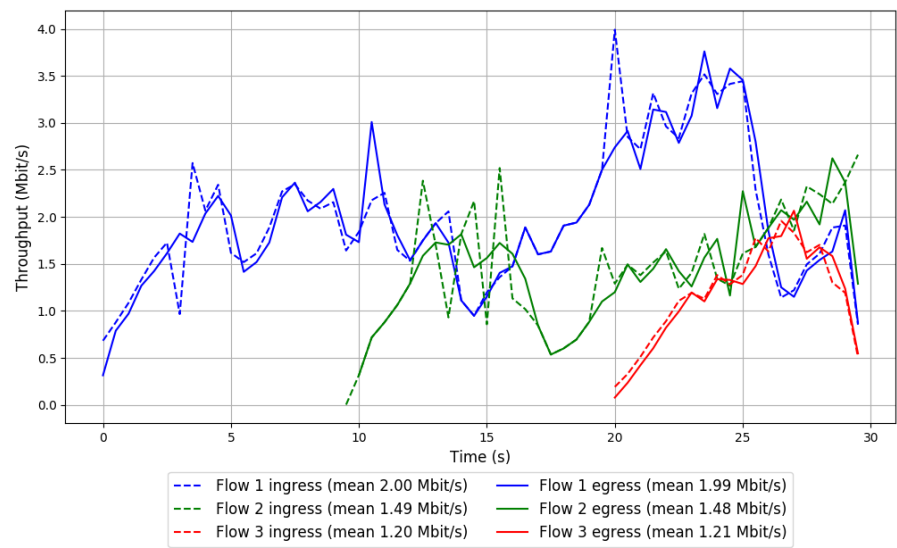
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 114.089 ms

Loss rate: 2.24%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-02 17:07:51

End at: 2018-01-02 17:08:21

Below is generated by plot.py at 2018-01-02 20:59:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 113.578 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 113.686 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 113.539 ms

Loss rate: 1.61%

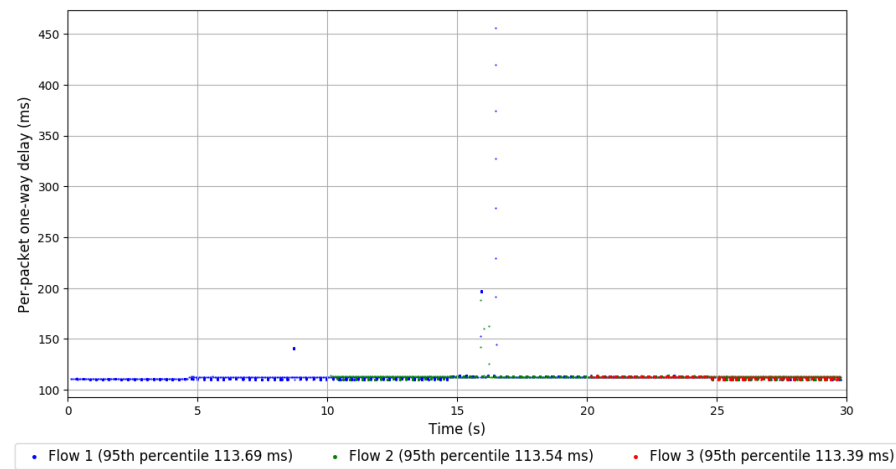
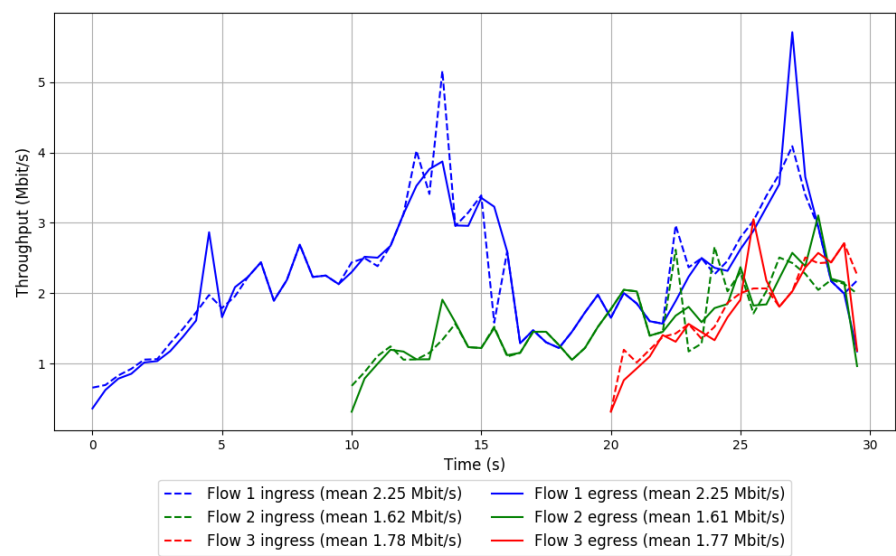
-- Flow 3:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 113.387 ms

Loss rate: 3.08%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-02 17:22:11

End at: 2018-01-02 17:22:41

Below is generated by plot.py at 2018-01-02 20:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 114.183 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 114.266 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 113.876 ms

Loss rate: 1.48%

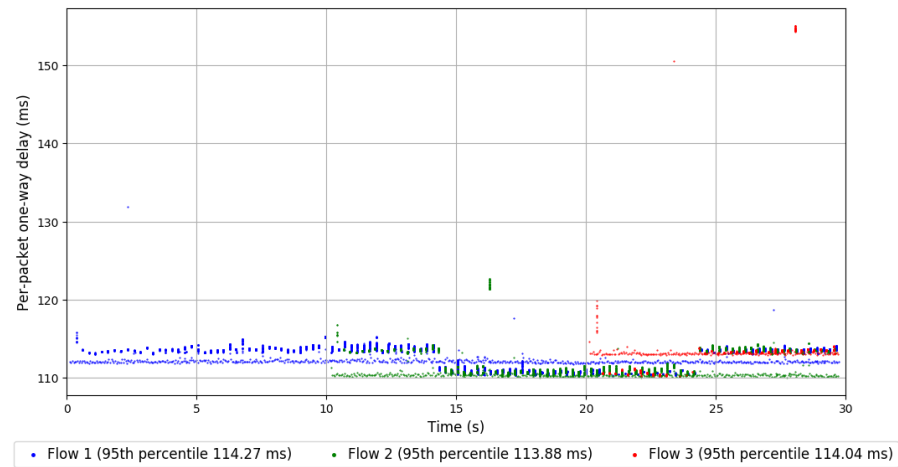
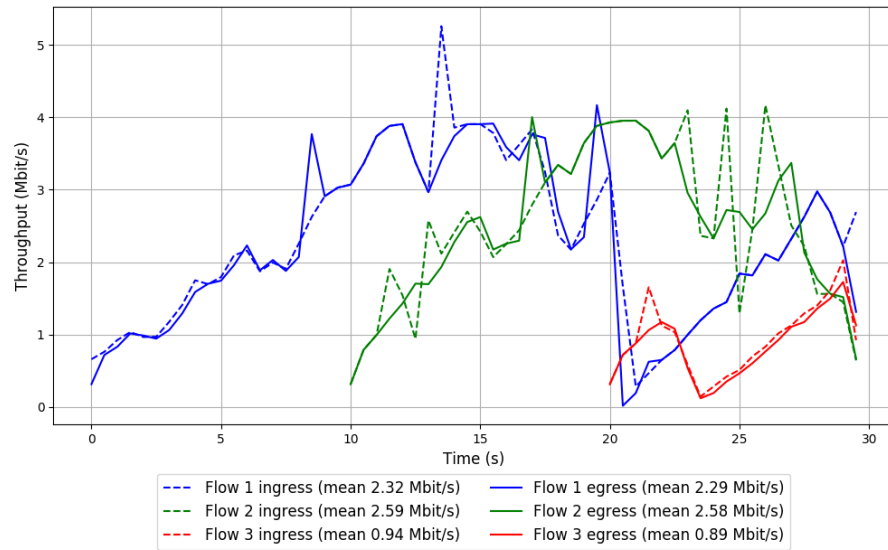
-- Flow 3:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 114.039 ms

Loss rate: 7.62%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-02 17:37:29

End at: 2018-01-02 17:37:59

Below is generated by plot.py at 2018-01-02 20:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 113.682 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 113.476 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 113.719 ms

Loss rate: 2.21%

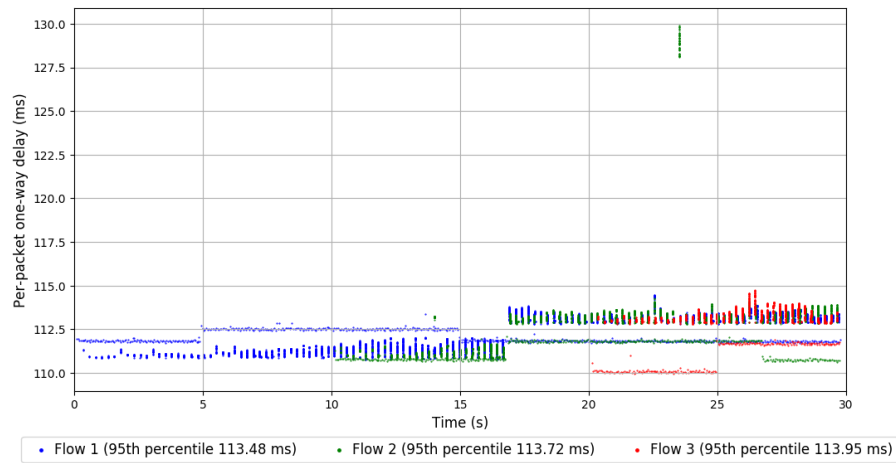
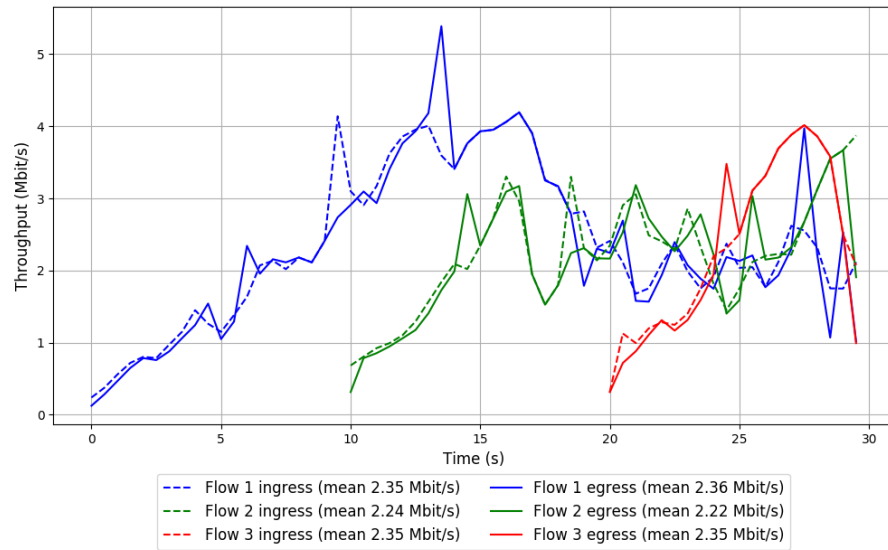
-- Flow 3:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 113.946 ms

Loss rate: 2.33%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-02 17:52:55

End at: 2018-01-02 17:53:25

Below is generated by plot.py at 2018-01-02 20:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 113.772 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 113.747 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 113.838 ms

Loss rate: 1.14%

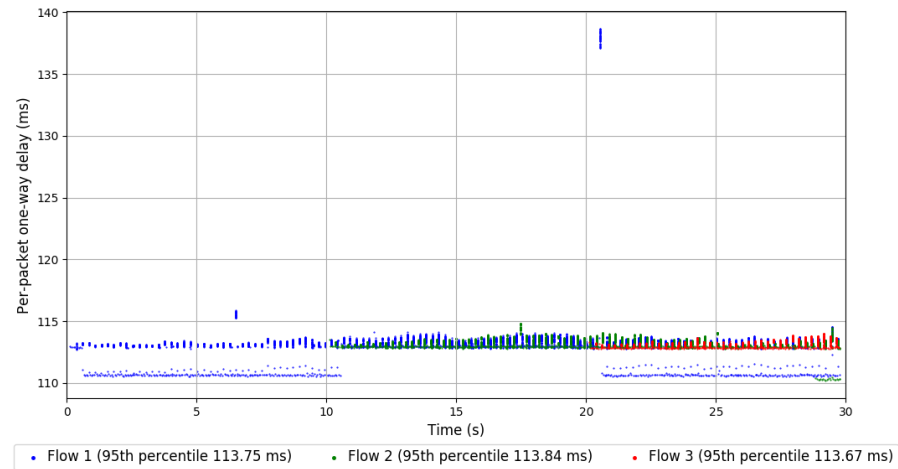
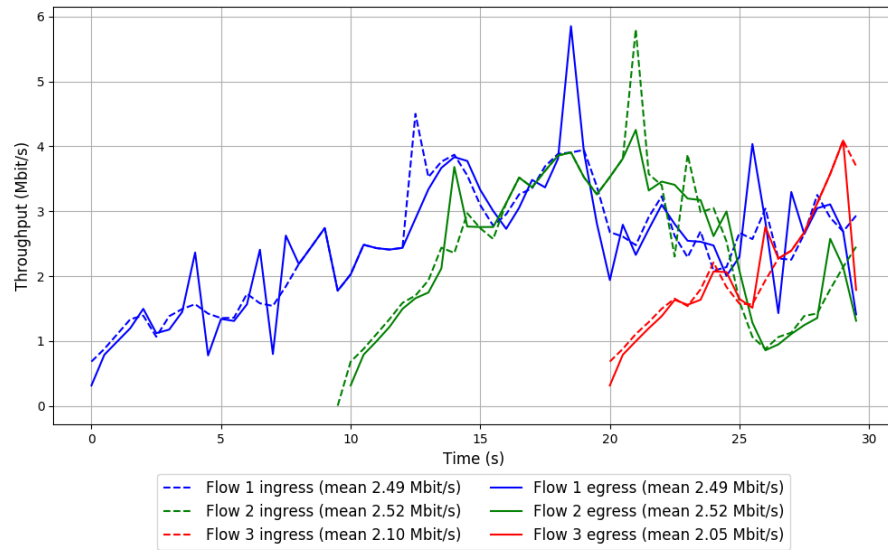
-- Flow 3:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 113.674 ms

Loss rate: 4.63%

Run 10: Report of Sprout — Data Link

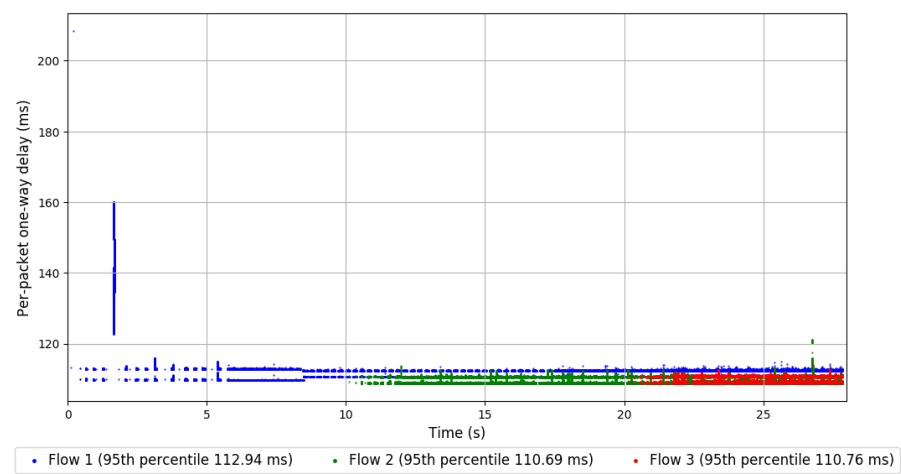
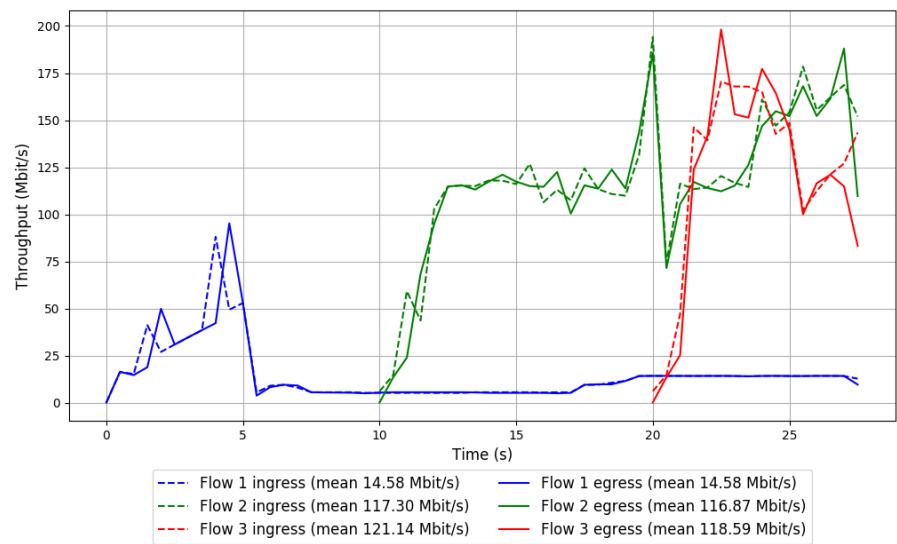


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 15:33:05
End at: 2018-01-02 15:33:35

# Below is generated by plot.py at 2018-01-02 20:59:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 122.27 Mbit/s
95th percentile per-packet one-way delay: 112.374 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 112.937 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 116.87 Mbit/s
95th percentile per-packet one-way delay: 110.694 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 118.59 Mbit/s
95th percentile per-packet one-way delay: 110.763 ms
Loss rate: 4.81%
```


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

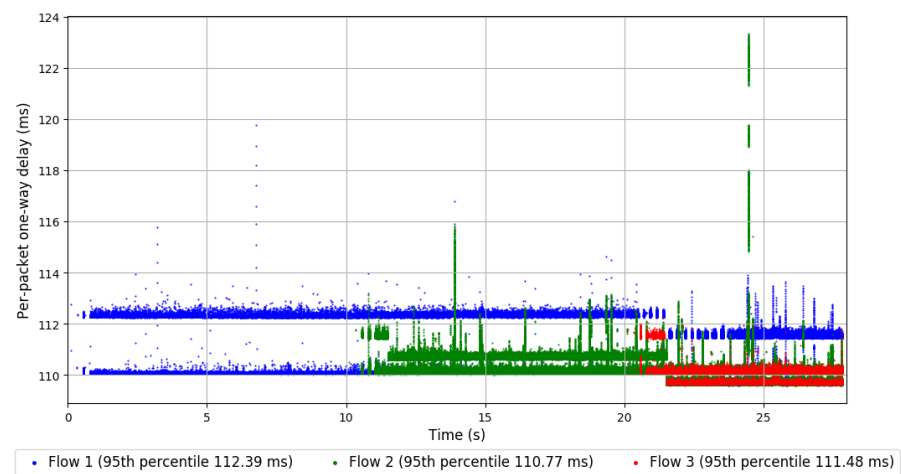
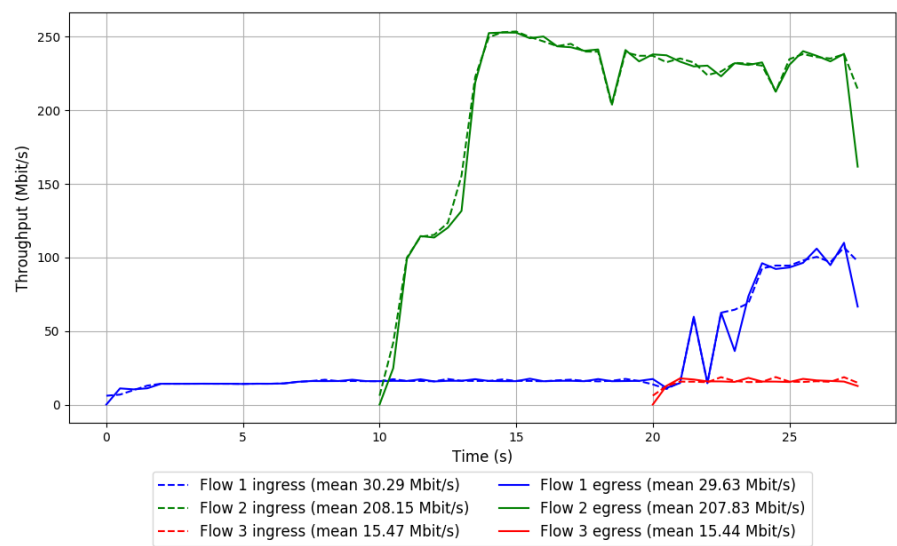


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 15:48:42
End at: 2018-01-02 15:49:12

# Below is generated by plot.py at 2018-01-02 20:59:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.74 Mbit/s
95th percentile per-packet one-way delay: 111.620 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 112.389 ms
Loss rate: 2.90%
-- Flow 2:
Average throughput: 207.83 Mbit/s
95th percentile per-packet one-way delay: 110.770 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 111.483 ms
Loss rate: 2.96%
```

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

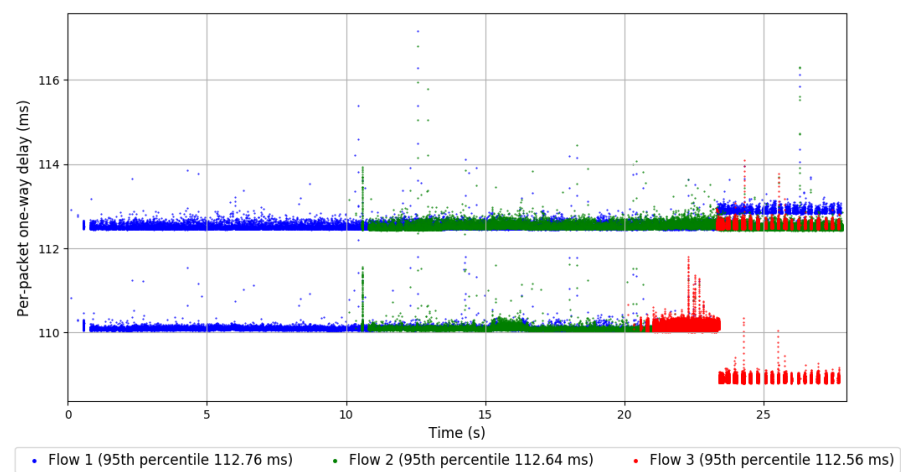
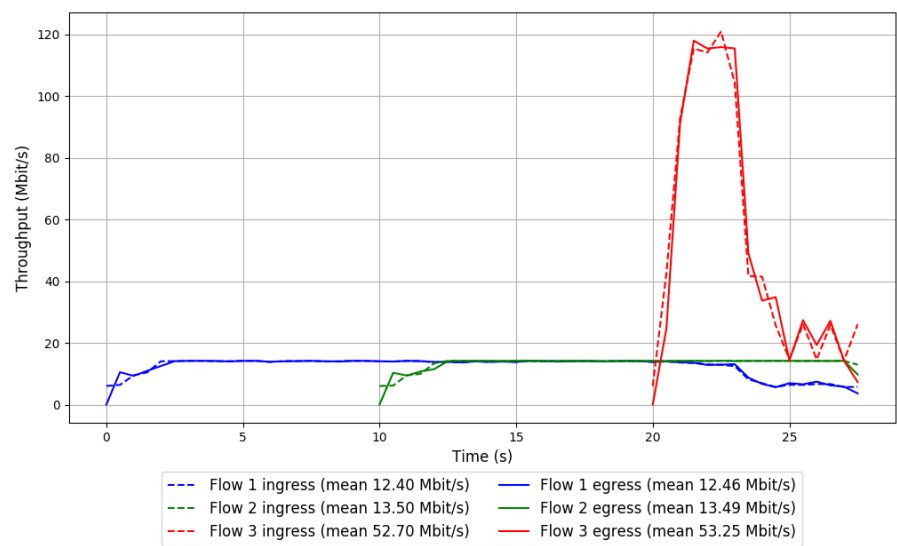


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 16:04:10
End at: 2018-01-02 16:04:40

# Below is generated by plot.py at 2018-01-02 20:59:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 112.626 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 12.46 Mbit/s
95th percentile per-packet one-way delay: 112.761 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 13.49 Mbit/s
95th percentile per-packet one-way delay: 112.642 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 53.25 Mbit/s
95th percentile per-packet one-way delay: 112.560 ms
Loss rate: 2.27%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 16:19:23

End at: 2018-01-02 16:19:53

Below is generated by plot.py at 2018-01-02 20:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 112.549 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 25.10 Mbit/s

95th percentile per-packet one-way delay: 112.409 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 14.50 Mbit/s

95th percentile per-packet one-way delay: 112.652 ms

Loss rate: 1.41%

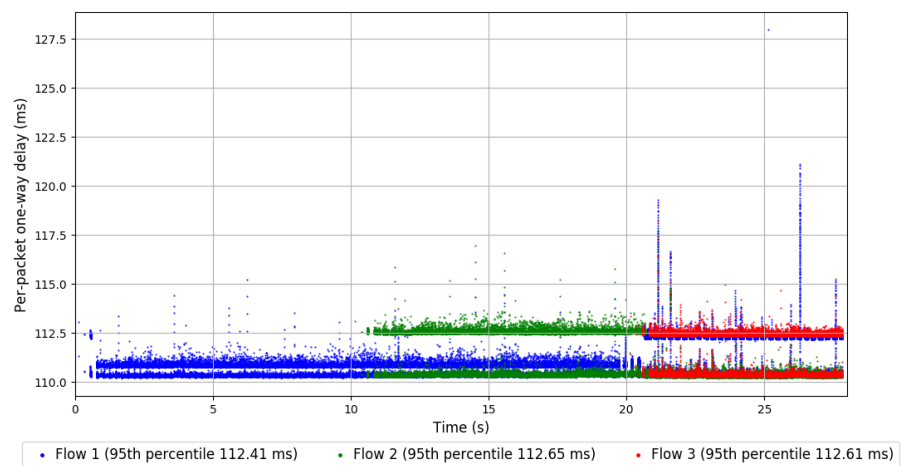
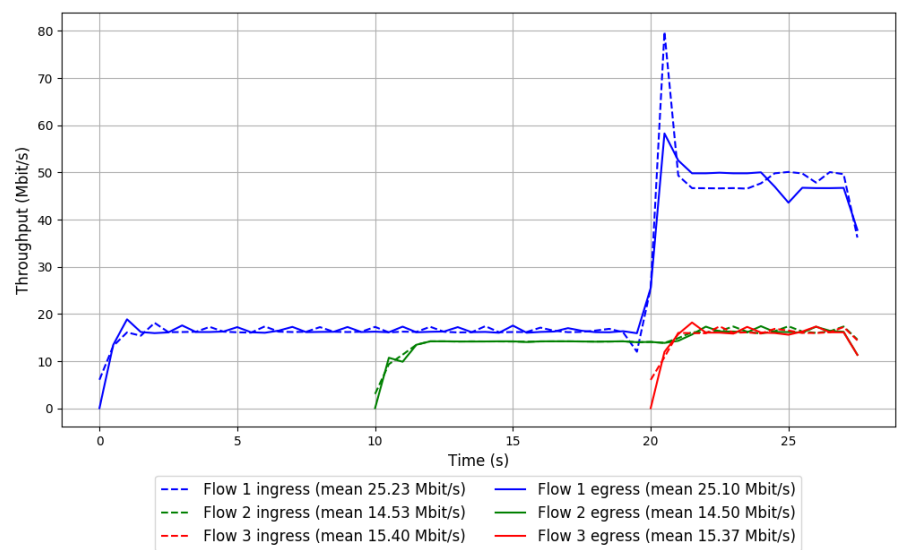
-- Flow 3:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 2.95%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 16:33:18

End at: 2018-01-02 16:33:48

Below is generated by plot.py at 2018-01-02 20:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 114.993 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 27.21 Mbit/s

95th percentile per-packet one-way delay: 113.525 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 65.20 Mbit/s

95th percentile per-packet one-way delay: 114.964 ms

Loss rate: 2.16%

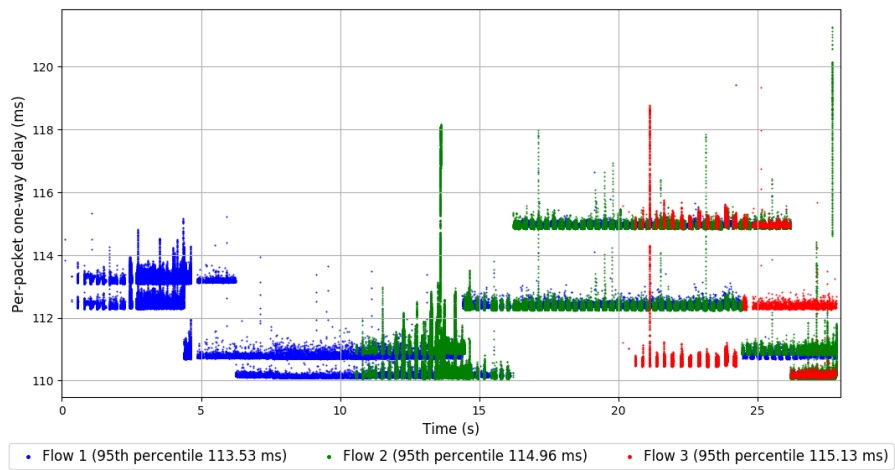
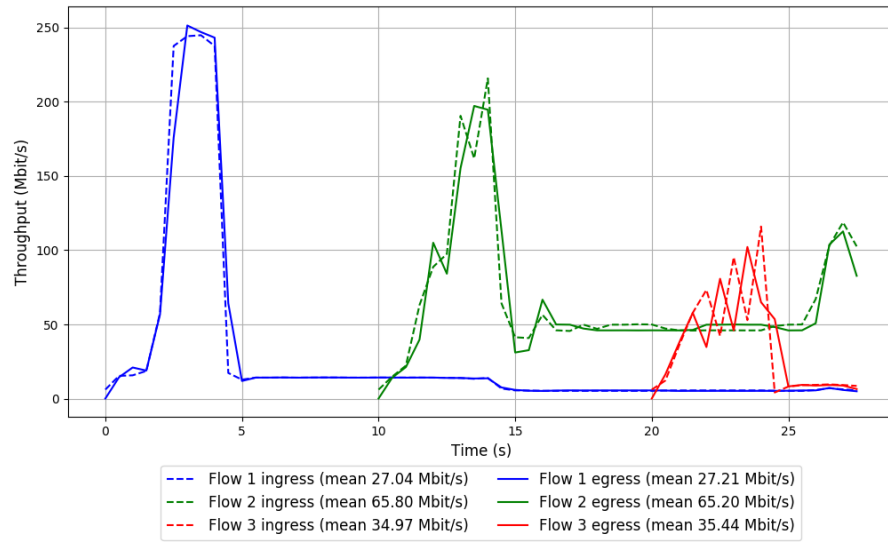
-- Flow 3:

Average throughput: 35.44 Mbit/s

95th percentile per-packet one-way delay: 115.129 ms

Loss rate: 0.84%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 16:47:37

End at: 2018-01-02 16:48:07

Below is generated by plot.py at 2018-01-02 20:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.88 Mbit/s

95th percentile per-packet one-way delay: 115.086 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 13.63 Mbit/s

95th percentile per-packet one-way delay: 113.465 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 15.84 Mbit/s

95th percentile per-packet one-way delay: 113.498 ms

Loss rate: 0.55%

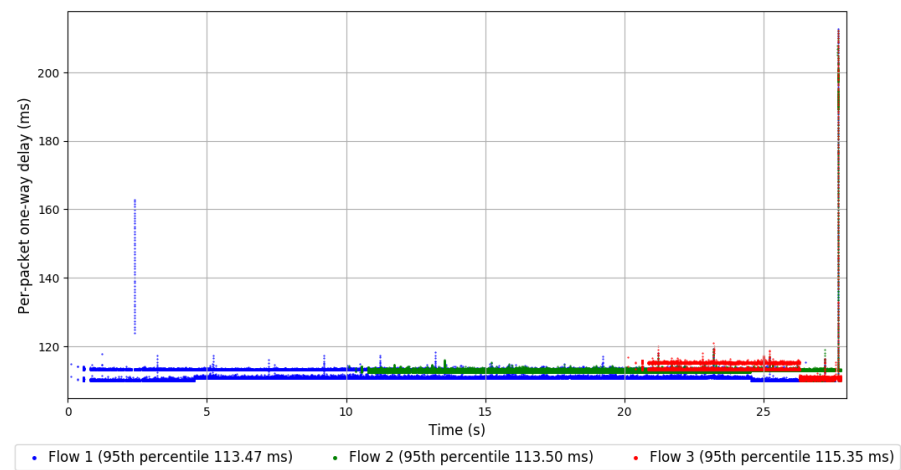
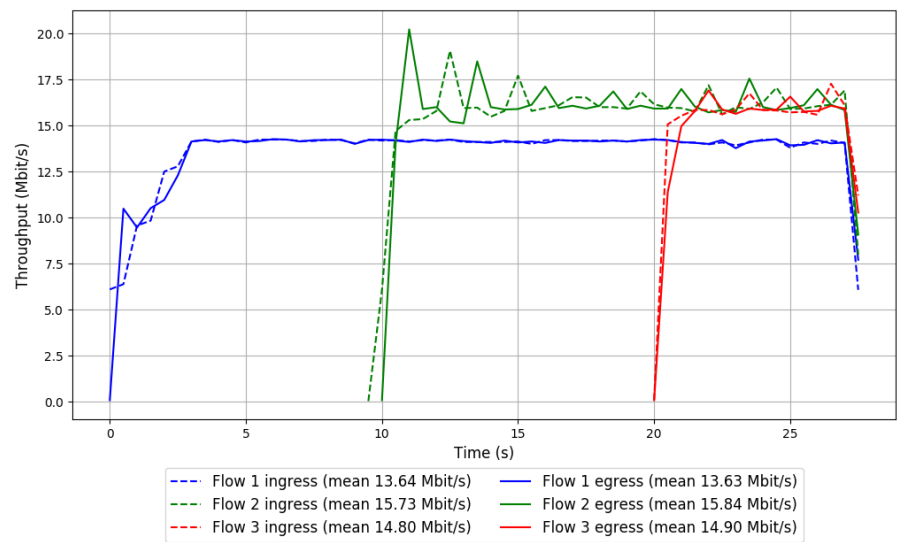
-- Flow 3:

Average throughput: 14.90 Mbit/s

95th percentile per-packet one-way delay: 115.352 ms

Loss rate: 2.23%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 17:02:23

End at: 2018-01-02 17:02:53

Below is generated by plot.py at 2018-01-02 20:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 112.988 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 13.45 Mbit/s

95th percentile per-packet one-way delay: 113.036 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 92.26 Mbit/s

95th percentile per-packet one-way delay: 112.942 ms

Loss rate: 0.76%

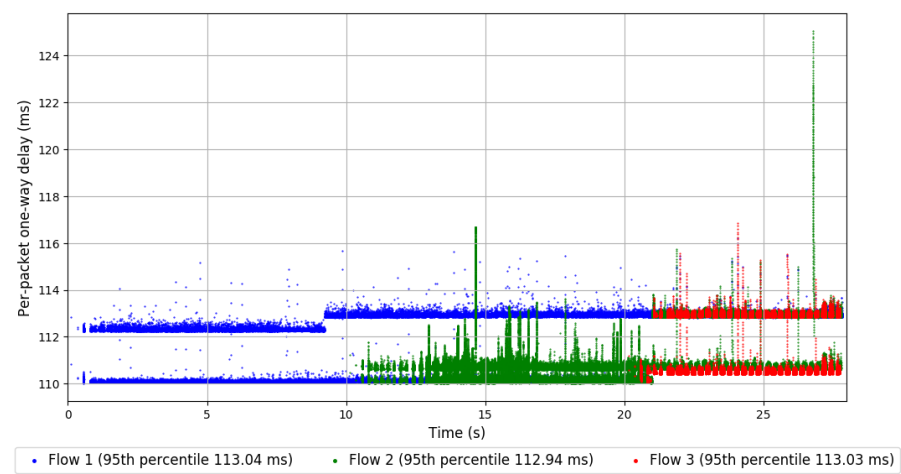
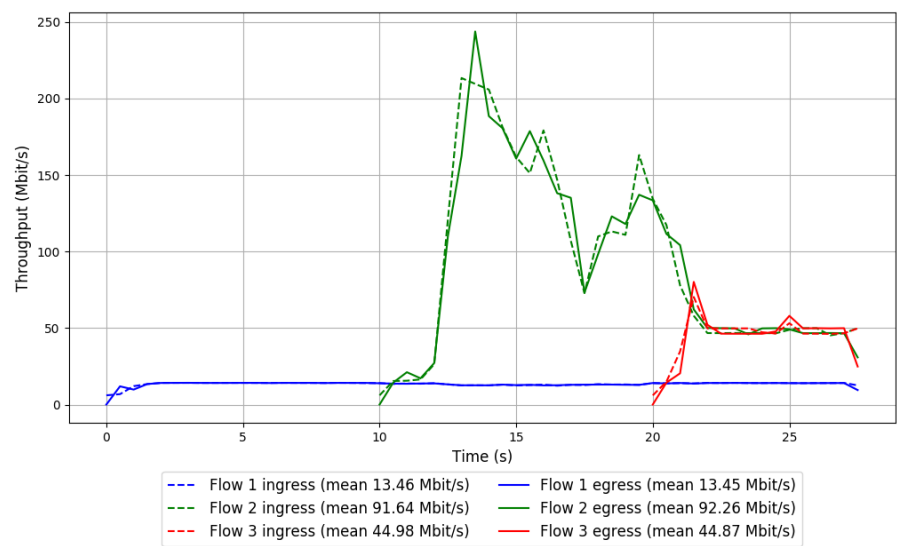
-- Flow 3:

Average throughput: 44.87 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 3.52%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 17:16:39

End at: 2018-01-02 17:17:09

Below is generated by plot.py at 2018-01-02 20:59:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.52 Mbit/s

95th percentile per-packet one-way delay: 113.730 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 66.71 Mbit/s

95th percentile per-packet one-way delay: 114.244 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 72.74 Mbit/s

95th percentile per-packet one-way delay: 113.246 ms

Loss rate: 1.80%

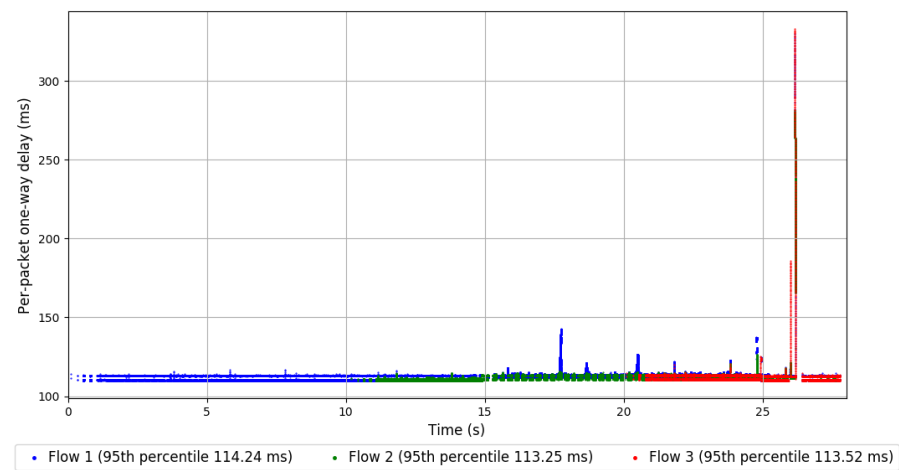
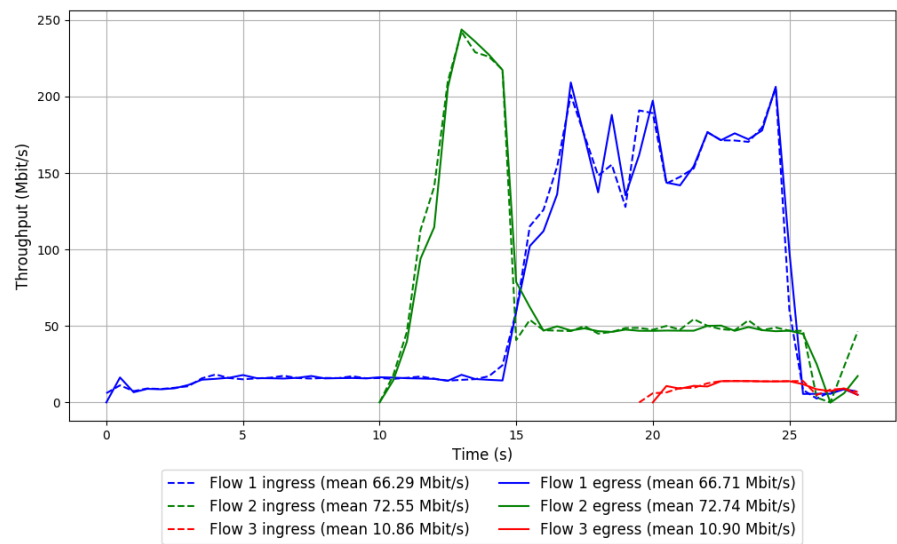
-- Flow 3:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 113.517 ms

Loss rate: 2.49%

Run 8: Report of TaoVA-100x — Data Link

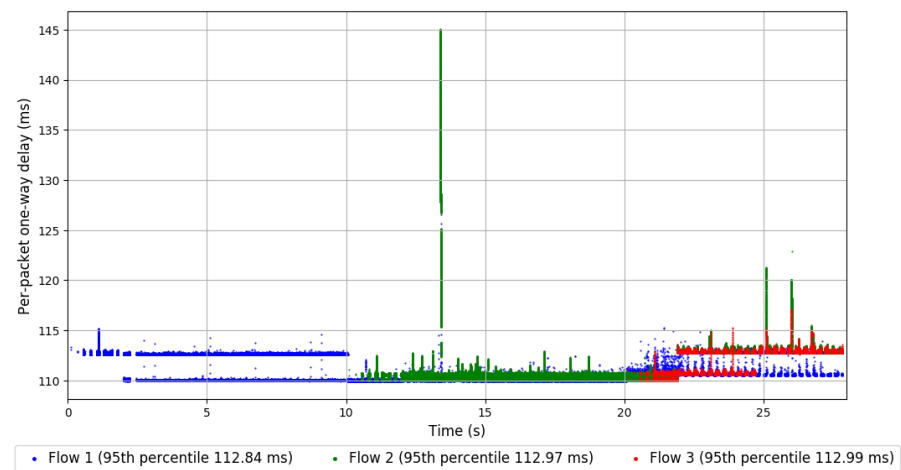
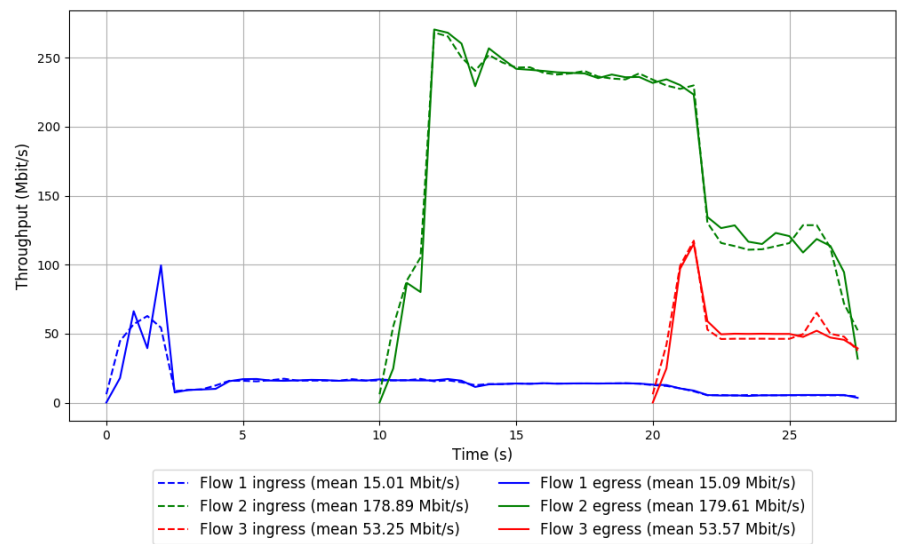


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 17:31:52
End at: 2018-01-02 17:32:22

# Below is generated by plot.py at 2018-01-02 20:59:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.74 Mbit/s
95th percentile per-packet one-way delay: 112.967 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 112.836 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 179.61 Mbit/s
95th percentile per-packet one-way delay: 112.973 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 112.987 ms
Loss rate: 2.20%
```


Run 9: Report of TaoVA-100x — Data Link

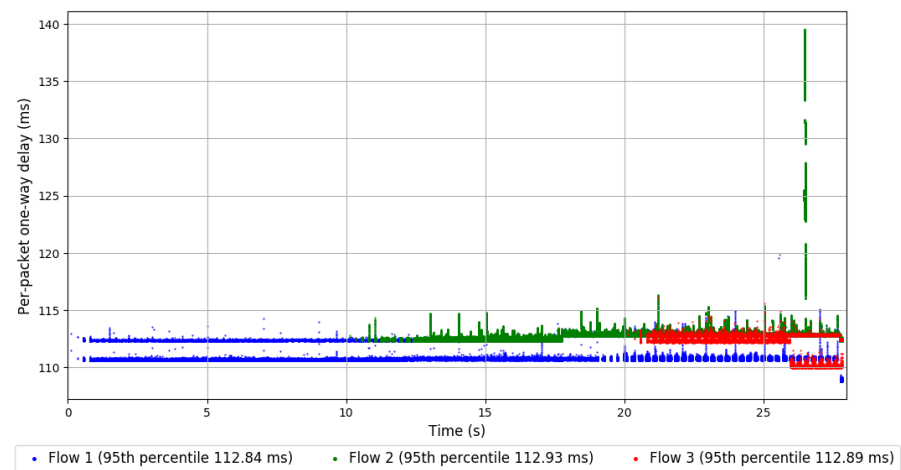
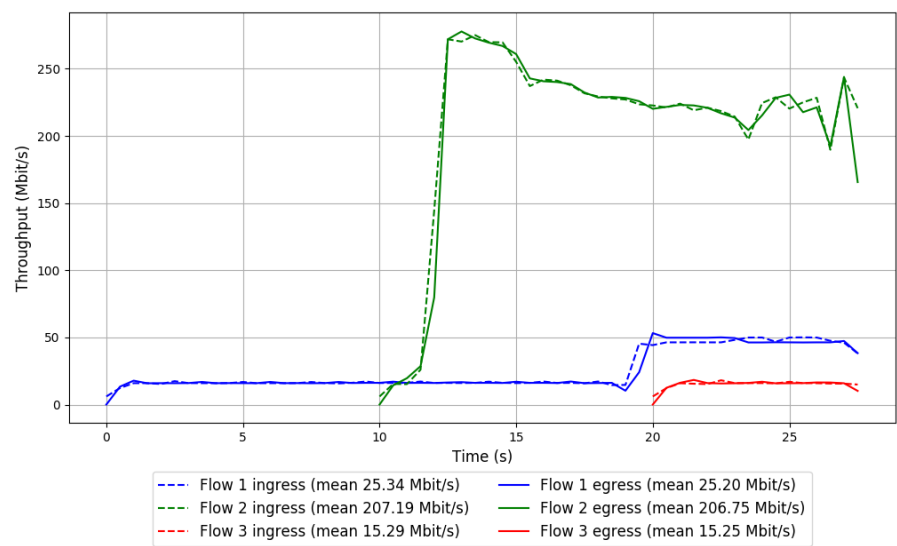


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 17:47:16
End at: 2018-01-02 17:47:46

# Below is generated by plot.py at 2018-01-02 21:01:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 161.55 Mbit/s
95th percentile per-packet one-way delay: 112.912 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 25.20 Mbit/s
95th percentile per-packet one-way delay: 112.841 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 206.75 Mbit/s
95th percentile per-packet one-way delay: 112.928 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 15.25 Mbit/s
95th percentile per-packet one-way delay: 112.894 ms
Loss rate: 3.05%
```

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 15:26:33

End at: 2018-01-02 15:27:03

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.63 Mbit/s

95th percentile per-packet one-way delay: 113.413 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 113.410 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 1.19%

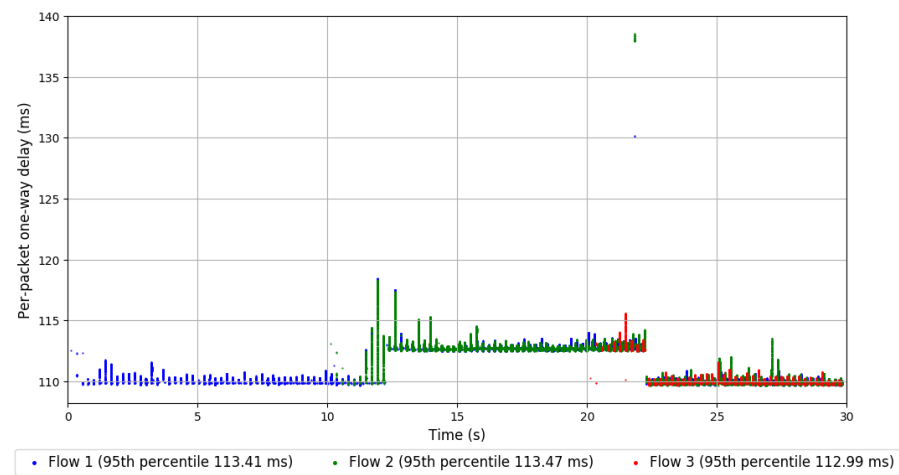
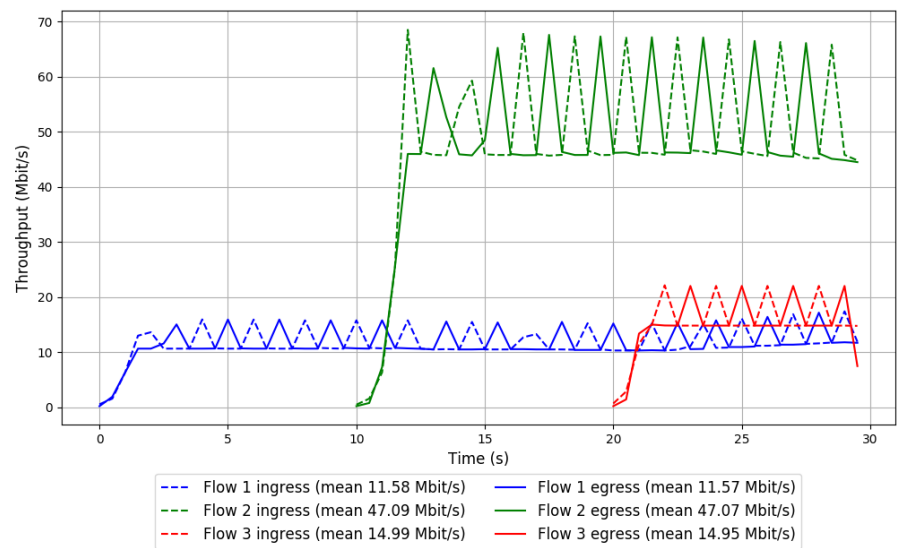
-- Flow 3:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 112.992 ms

Loss rate: 2.50%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 15:41:34

End at: 2018-01-02 15:42:04

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.05 Mbit/s

95th percentile per-packet one-way delay: 118.535 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 58.45 Mbit/s

95th percentile per-packet one-way delay: 118.459 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 90.65 Mbit/s

95th percentile per-packet one-way delay: 118.717 ms

Loss rate: 0.72%

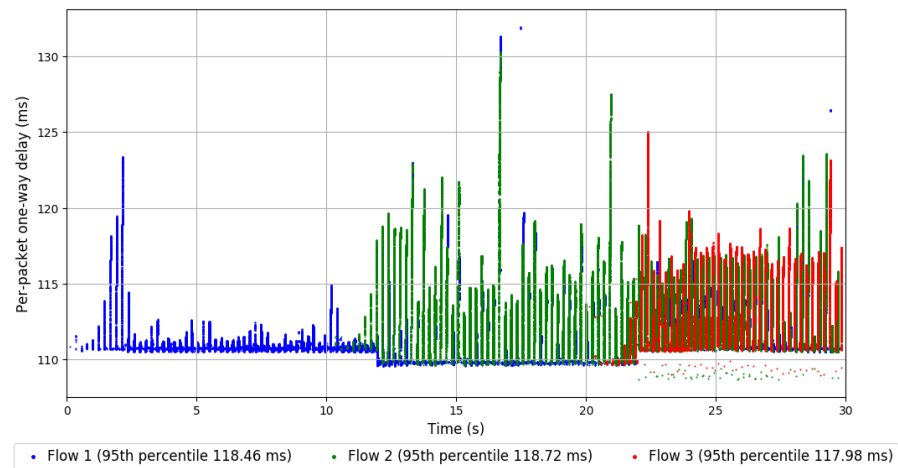
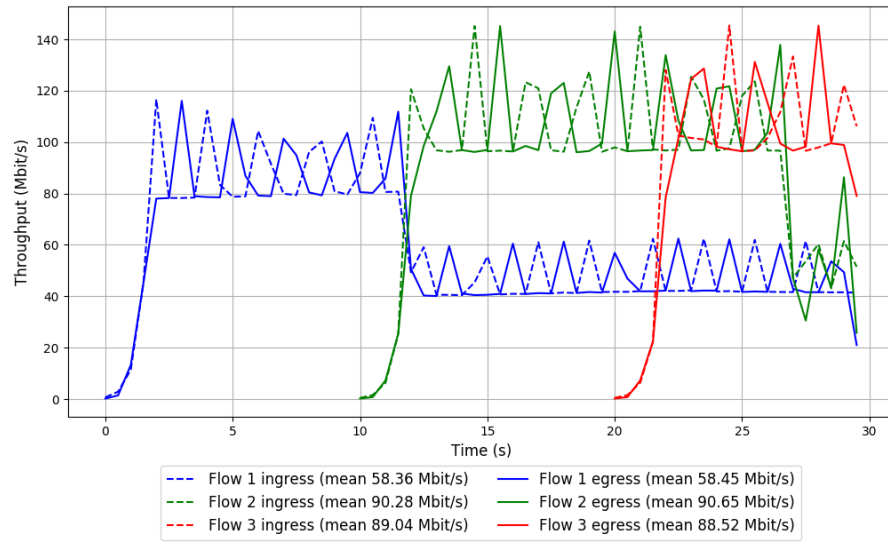
-- Flow 3:

Average throughput: 88.52 Mbit/s

95th percentile per-packet one-way delay: 117.985 ms

Loss rate: 2.85%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 15:57:09

End at: 2018-01-02 15:57:39

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.29 Mbit/s

95th percentile per-packet one-way delay: 113.968 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 67.67 Mbit/s

95th percentile per-packet one-way delay: 114.922 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 111.078 ms

Loss rate: 1.26%

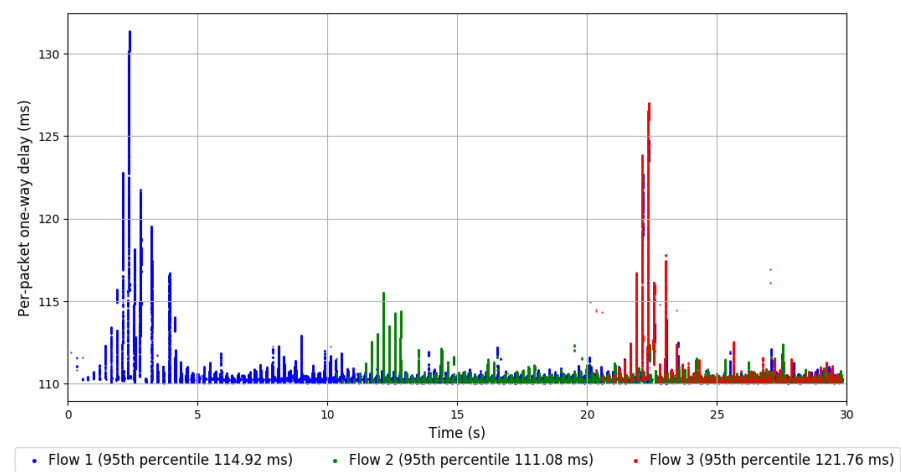
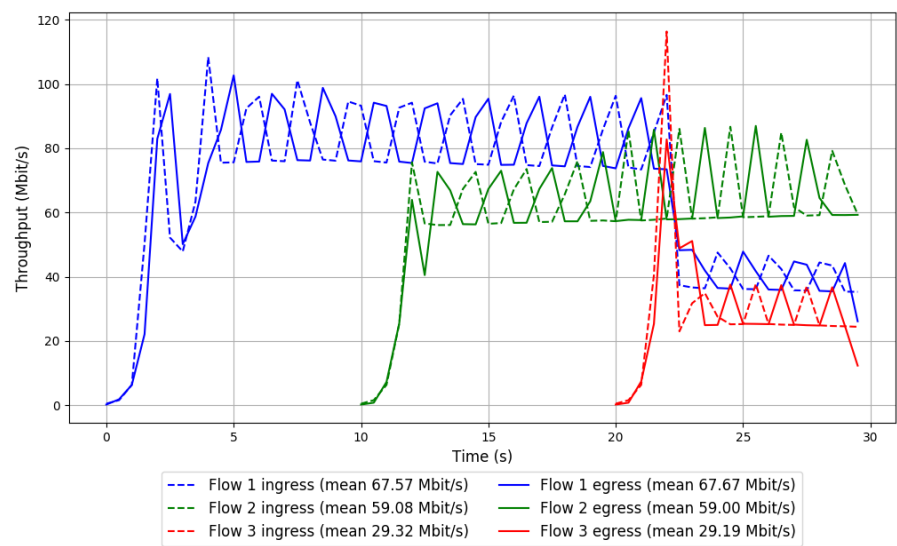
-- Flow 3:

Average throughput: 29.19 Mbit/s

95th percentile per-packet one-way delay: 121.756 ms

Loss rate: 2.72%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 16:12:22

End at: 2018-01-02 16:12:52

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 115.951 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 115.981 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 113.329 ms

Loss rate: 0.96%

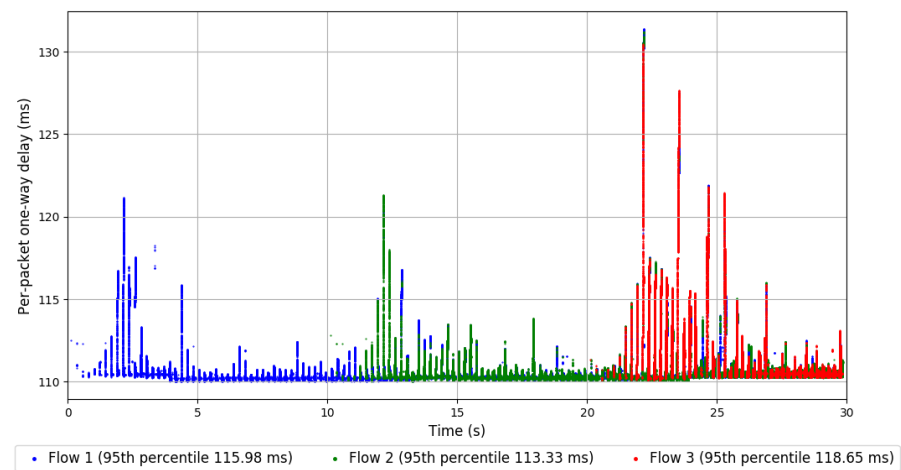
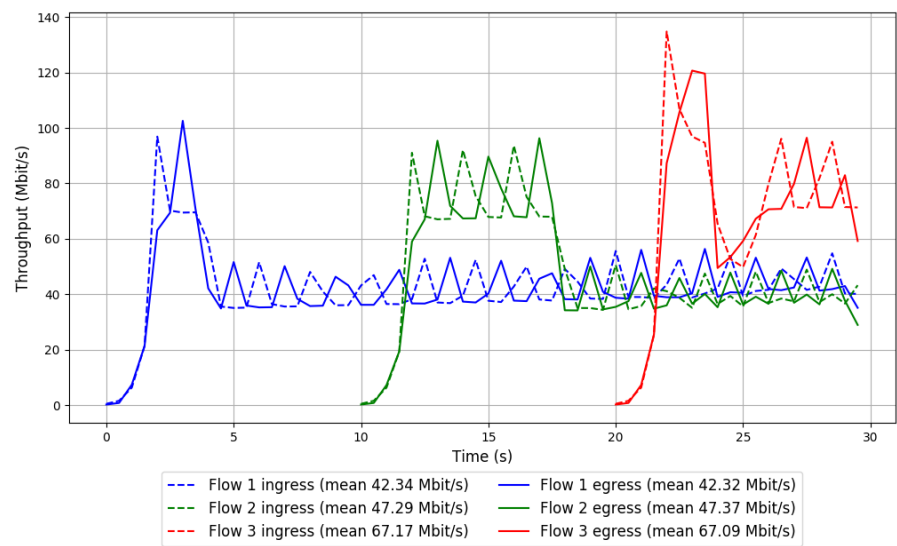
-- Flow 3:

Average throughput: 67.09 Mbit/s

95th percentile per-packet one-way delay: 118.654 ms

Loss rate: 2.67%

Run 4: Report of TCP Vegas — Data Link

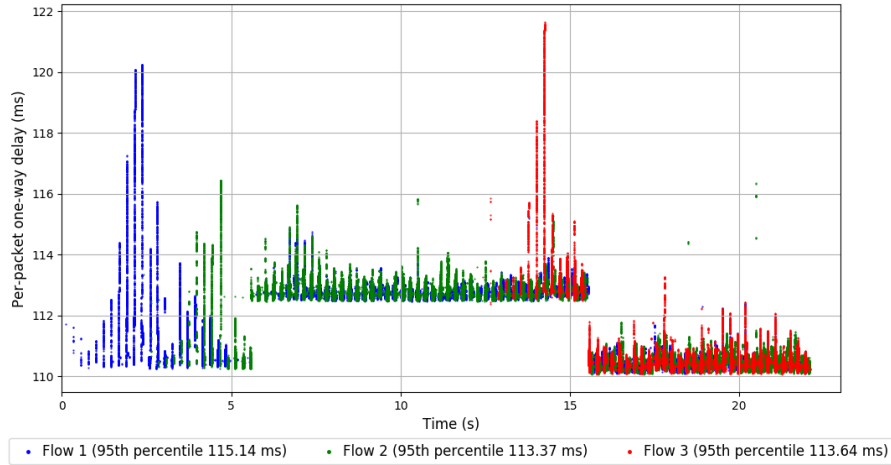
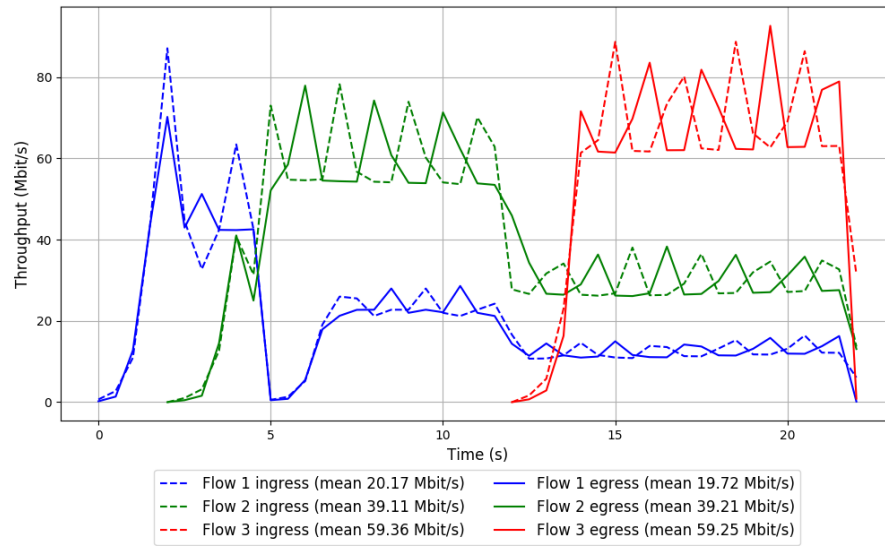


Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 16:27:22

End at: 2018-01-02 16:27:52

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 16:41:28

End at: 2018-01-02 16:41:58

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 114.682 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 114.253 ms

Loss rate: 2.55%

-- Flow 2:

Average throughput: 22.45 Mbit/s

95th percentile per-packet one-way delay: 114.626 ms

Loss rate: 2.23%

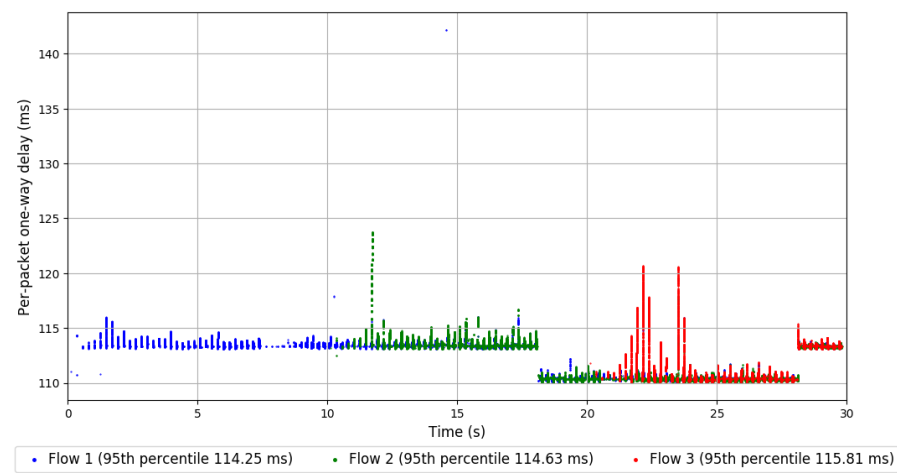
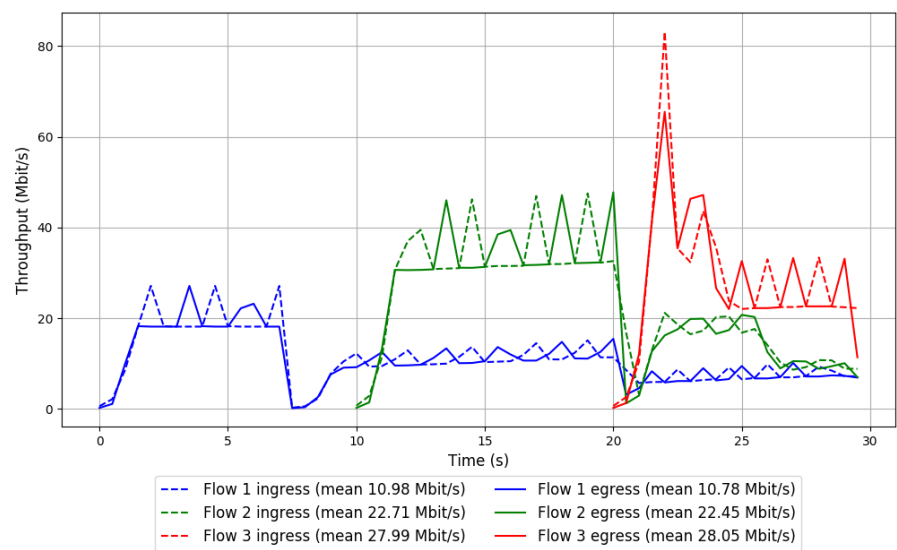
-- Flow 3:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 115.809 ms

Loss rate: 2.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 16:55:51

End at: 2018-01-02 16:56:21

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 115.957 ms

Loss rate: 3.07%

-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 116.131 ms

Loss rate: 2.20%

-- Flow 2:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 116.109 ms

Loss rate: 4.71%

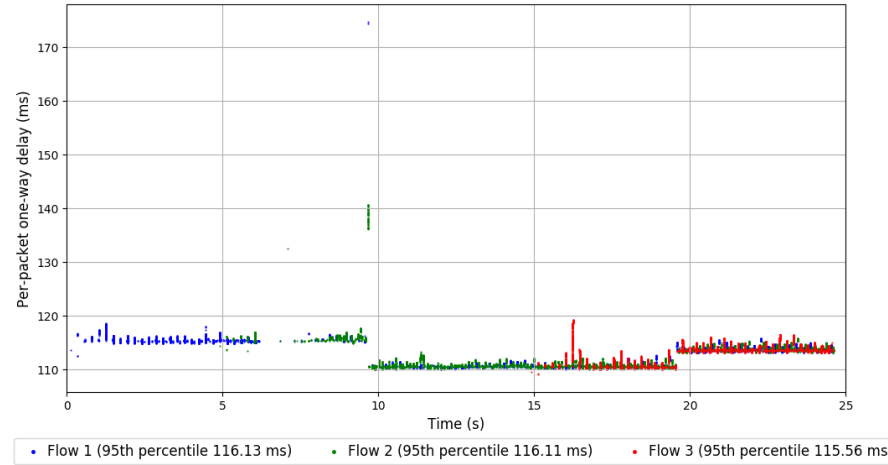
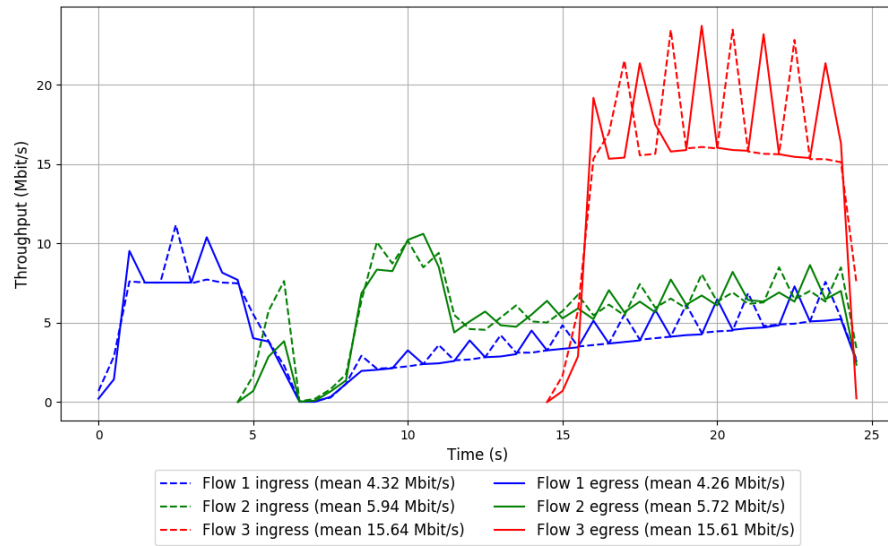
-- Flow 3:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 115.561 ms

Loss rate: 2.41%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 17:10:40

End at: 2018-01-02 17:11:10

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 114.254 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 28.79 Mbit/s

95th percentile per-packet one-way delay: 114.347 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 114.168 ms

Loss rate: 1.20%

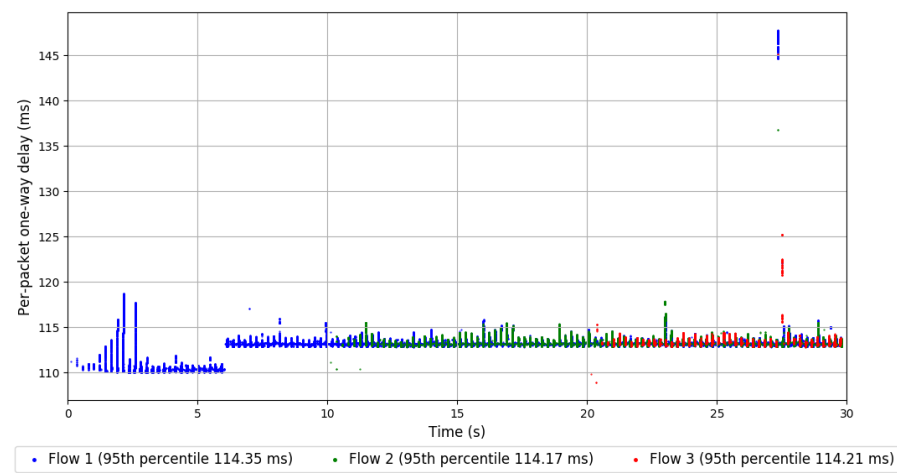
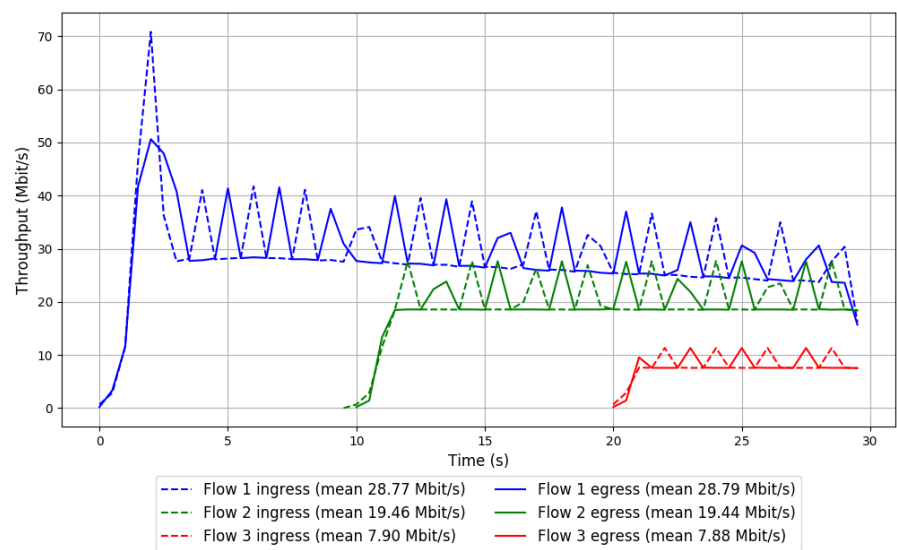
-- Flow 3:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 114.211 ms

Loss rate: 2.44%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 17:24:55

End at: 2018-01-02 17:25:25

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.77 Mbit/s

95th percentile per-packet one-way delay: 114.056 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 18.85 Mbit/s

95th percentile per-packet one-way delay: 114.103 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 114.026 ms

Loss rate: 1.19%

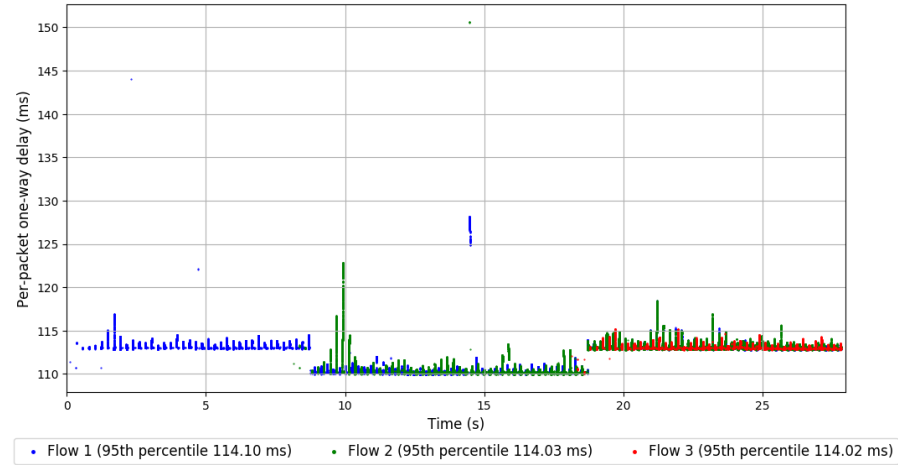
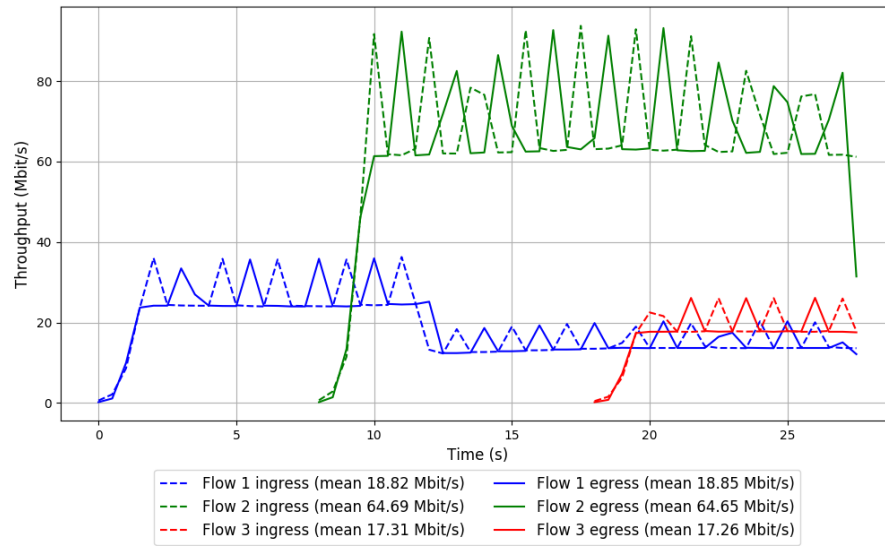
-- Flow 3:

Average throughput: 17.26 Mbit/s

95th percentile per-packet one-way delay: 114.018 ms

Loss rate: 2.57%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 17:40:22

End at: 2018-01-02 17:40:52

Below is generated by plot.py at 2018-01-02 21:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.32 Mbit/s

95th percentile per-packet one-way delay: 114.034 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 18.64 Mbit/s

95th percentile per-packet one-way delay: 113.742 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 113.793 ms

Loss rate: 1.21%

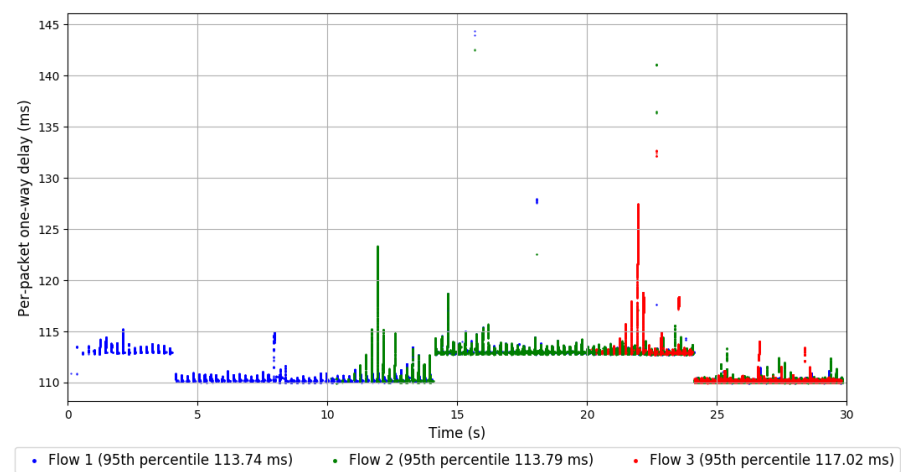
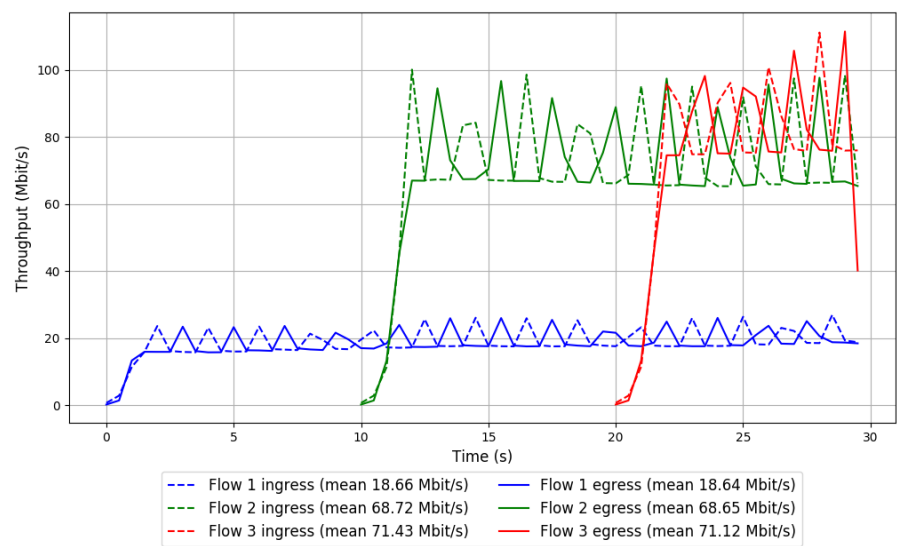
-- Flow 3:

Average throughput: 71.12 Mbit/s

95th percentile per-packet one-way delay: 117.023 ms

Loss rate: 2.69%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-02 15:24:38

End at: 2018-01-02 15:25:08

Below is generated by plot.py at 2018-01-02 21:02:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.58 Mbit/s

95th percentile per-packet one-way delay: 217.337 ms

Loss rate: 2.63%

-- Flow 1:

Average throughput: 121.37 Mbit/s

95th percentile per-packet one-way delay: 224.972 ms

Loss rate: 3.00%

-- Flow 2:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 126.629 ms

Loss rate: 0.01%

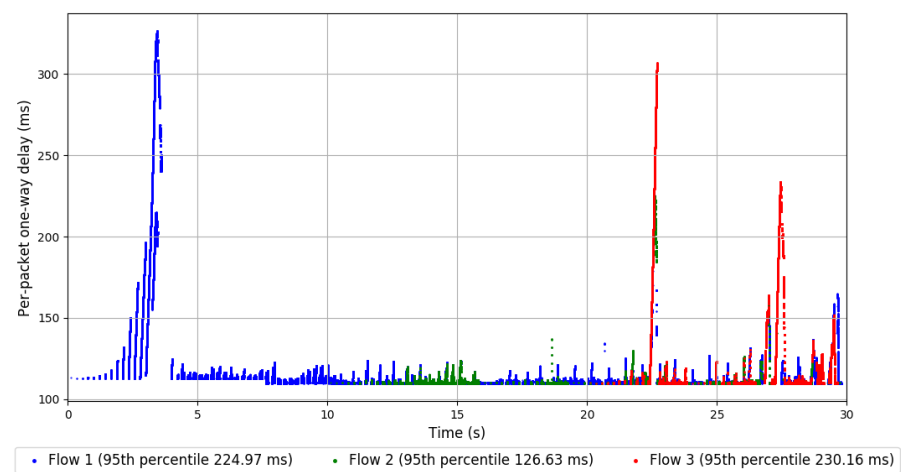
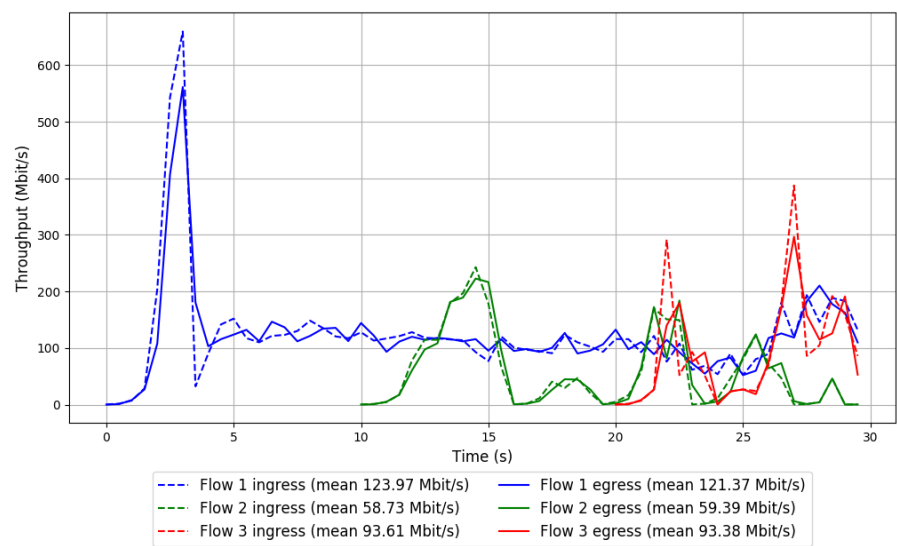
-- Flow 3:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 230.163 ms

Loss rate: 4.43%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 15:39:25

End at: 2018-01-02 15:39:55

Below is generated by plot.py at 2018-01-02 21:05:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.35 Mbit/s

95th percentile per-packet one-way delay: 234.119 ms

Loss rate: 4.23%

-- Flow 1:

Average throughput: 202.01 Mbit/s

95th percentile per-packet one-way delay: 239.968 ms

Loss rate: 3.12%

-- Flow 2:

Average throughput: 142.70 Mbit/s

95th percentile per-packet one-way delay: 221.483 ms

Loss rate: 4.00%

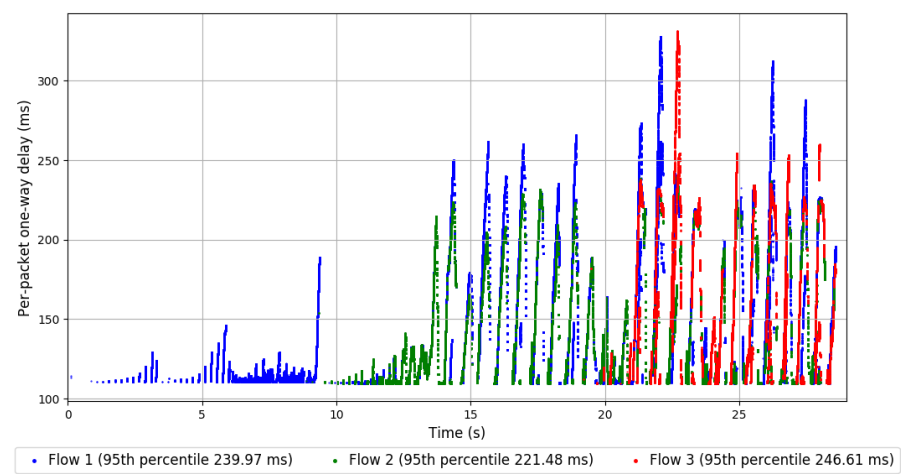
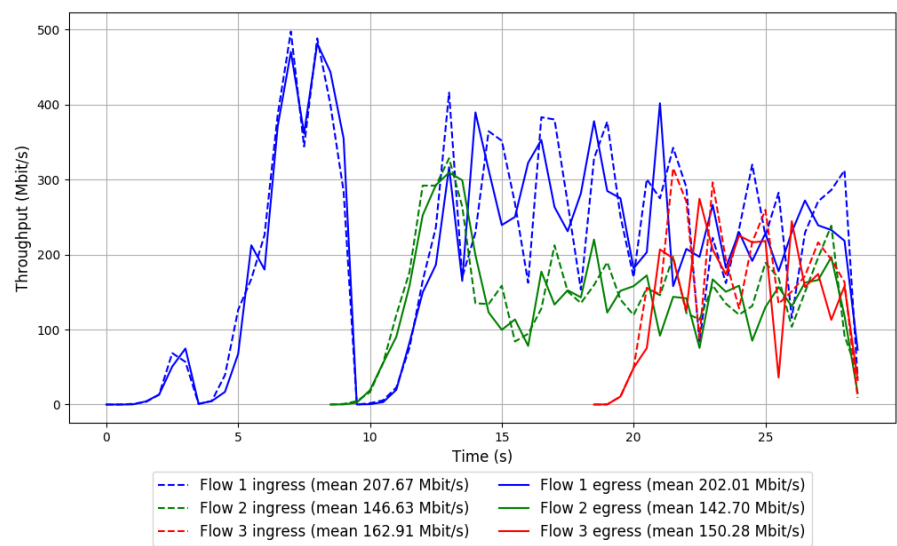
-- Flow 3:

Average throughput: 150.28 Mbit/s

95th percentile per-packet one-way delay: 246.610 ms

Loss rate: 8.77%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 15:55:08

End at: 2018-01-02 15:55:38

Below is generated by plot.py at 2018-01-02 21:05:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.70 Mbit/s

95th percentile per-packet one-way delay: 204.927 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 180.740 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 235.46 Mbit/s

95th percentile per-packet one-way delay: 216.274 ms

Loss rate: 1.14%

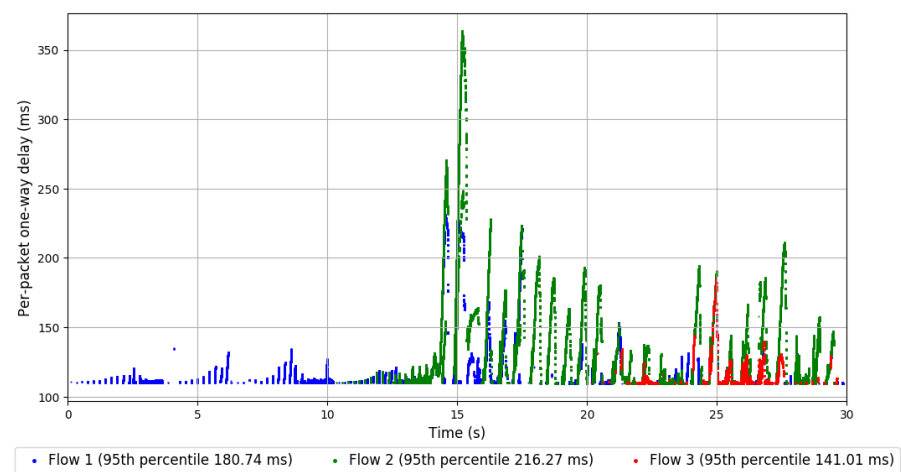
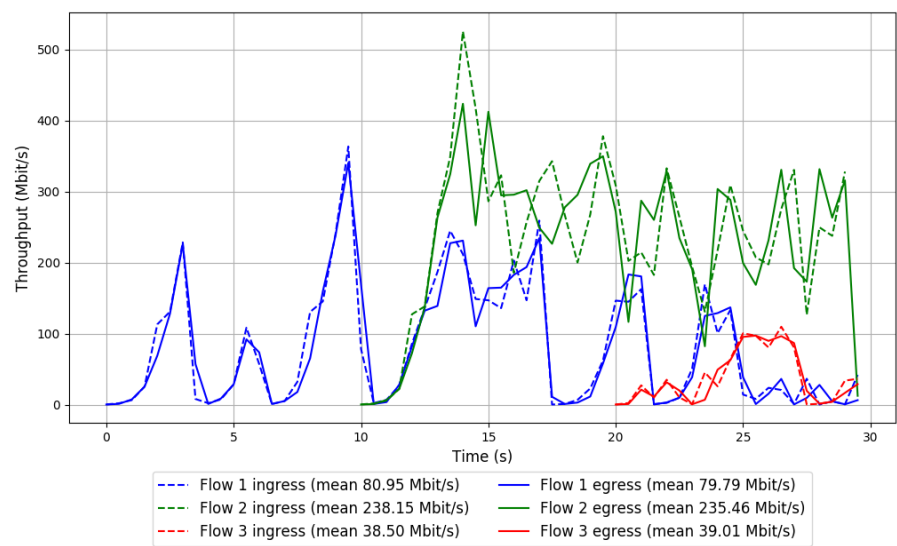
-- Flow 3:

Average throughput: 39.01 Mbit/s

95th percentile per-packet one-way delay: 141.015 ms

Loss rate: 3.25%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 16:10:21

End at: 2018-01-02 16:10:51

Below is generated by plot.py at 2018-01-02 21:05:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.44 Mbit/s

95th percentile per-packet one-way delay: 192.318 ms

Loss rate: 4.01%

-- Flow 1:

Average throughput: 155.31 Mbit/s

95th percentile per-packet one-way delay: 150.139 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 121.19 Mbit/s

95th percentile per-packet one-way delay: 254.470 ms

Loss rate: 9.28%

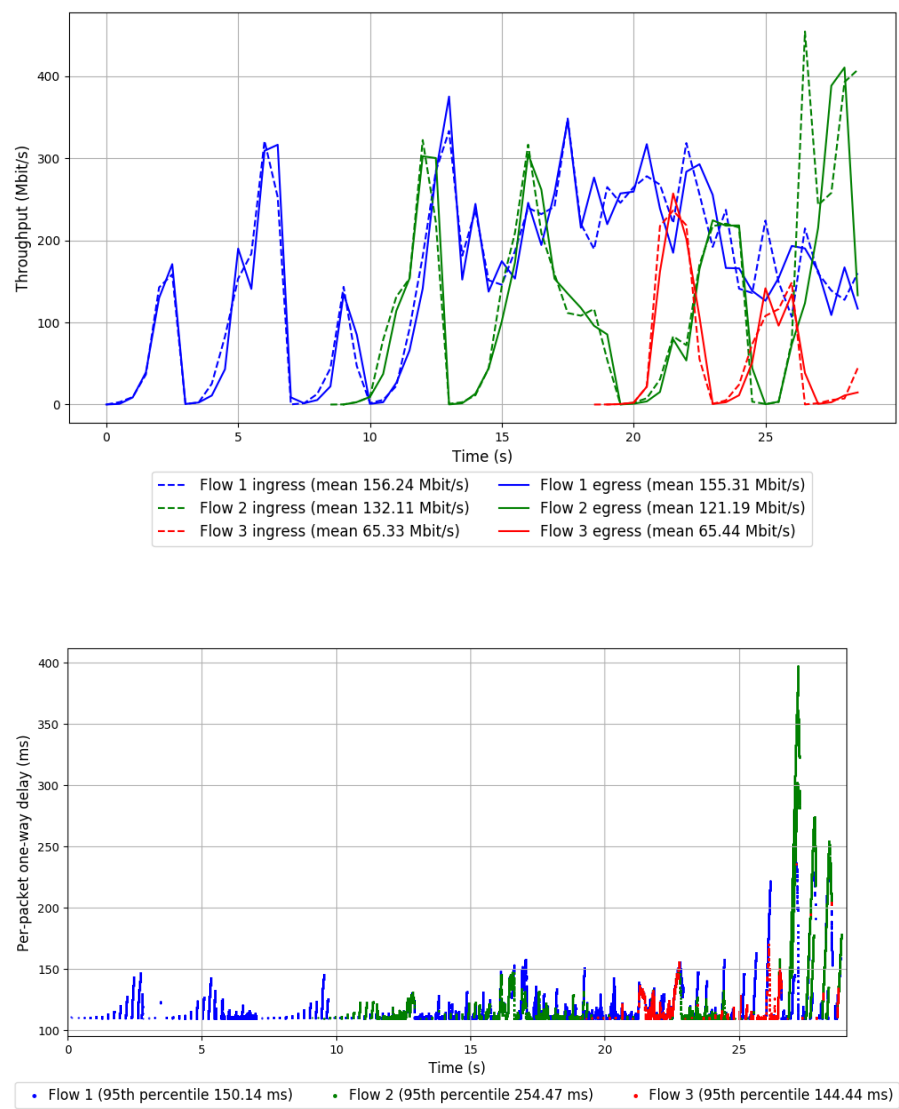
-- Flow 3:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 144.435 ms

Loss rate: 2.29%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 16:25:32

End at: 2018-01-02 16:26:02

Below is generated by plot.py at 2018-01-02 21:05:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.14 Mbit/s

95th percentile per-packet one-way delay: 139.171 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 85.77 Mbit/s

95th percentile per-packet one-way delay: 138.694 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 37.58 Mbit/s

95th percentile per-packet one-way delay: 148.861 ms

Loss rate: 0.02%

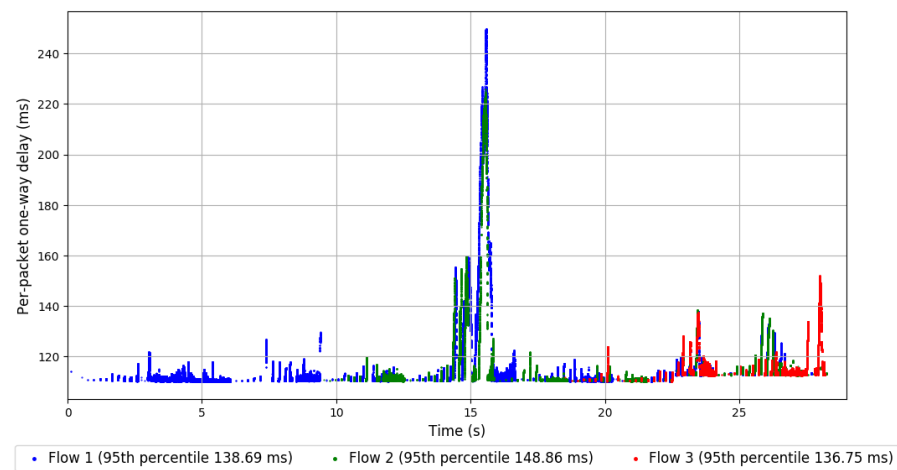
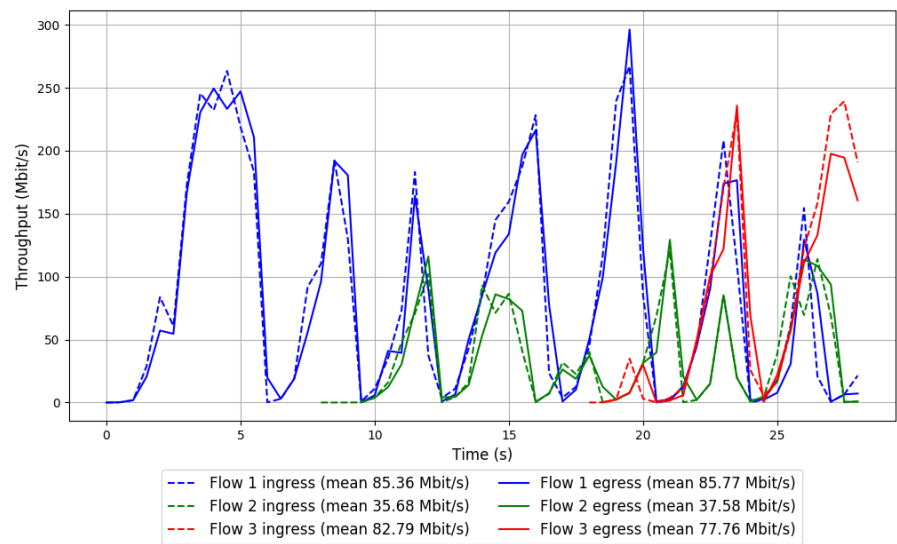
-- Flow 3:

Average throughput: 77.76 Mbit/s

95th percentile per-packet one-way delay: 136.748 ms

Loss rate: 8.72%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 16:39:25

End at: 2018-01-02 16:39:55

Below is generated by plot.py at 2018-01-02 21:05:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.35 Mbit/s

95th percentile per-packet one-way delay: 227.974 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 181.04 Mbit/s

95th percentile per-packet one-way delay: 232.093 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 154.23 Mbit/s

95th percentile per-packet one-way delay: 227.615 ms

Loss rate: 3.23%

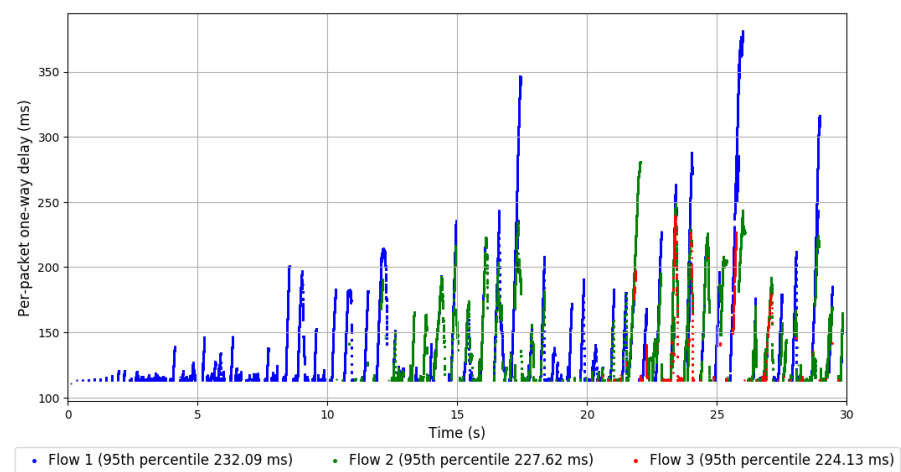
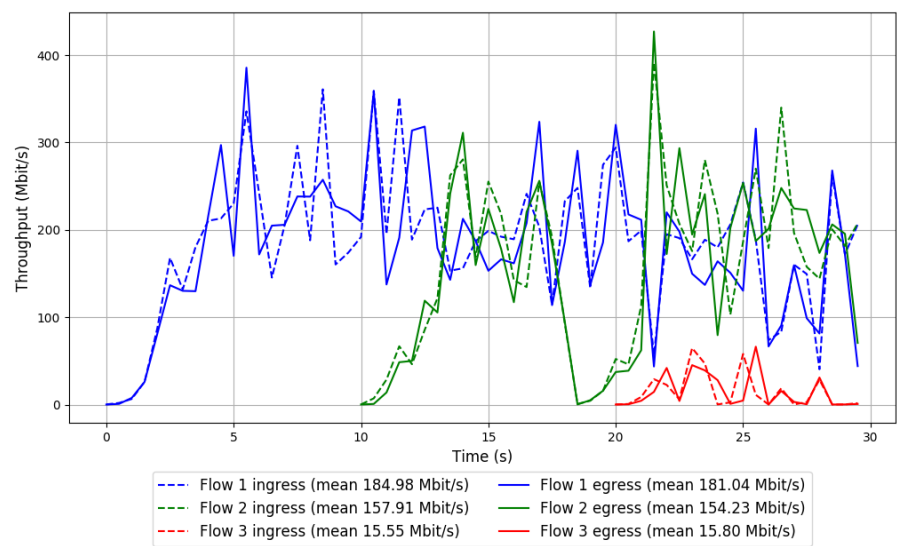
-- Flow 3:

Average throughput: 15.80 Mbit/s

95th percentile per-packet one-way delay: 224.133 ms

Loss rate: 0.72%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 16:53:59

End at: 2018-01-02 16:54:29

Below is generated by plot.py at 2018-01-02 21:05:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.75 Mbit/s

95th percentile per-packet one-way delay: 335.434 ms

Loss rate: 9.11%

-- Flow 1:

Average throughput: 69.56 Mbit/s

95th percentile per-packet one-way delay: 345.006 ms

Loss rate: 12.25%

-- Flow 2:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 219.082 ms

Loss rate: 4.34%

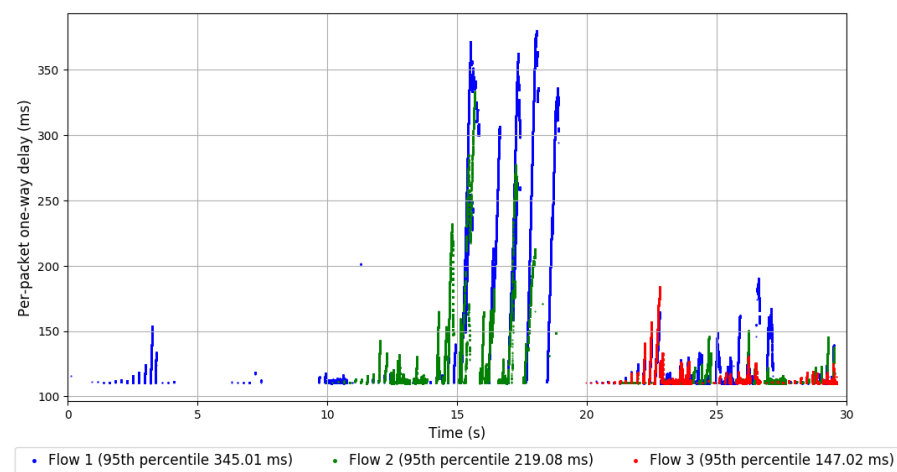
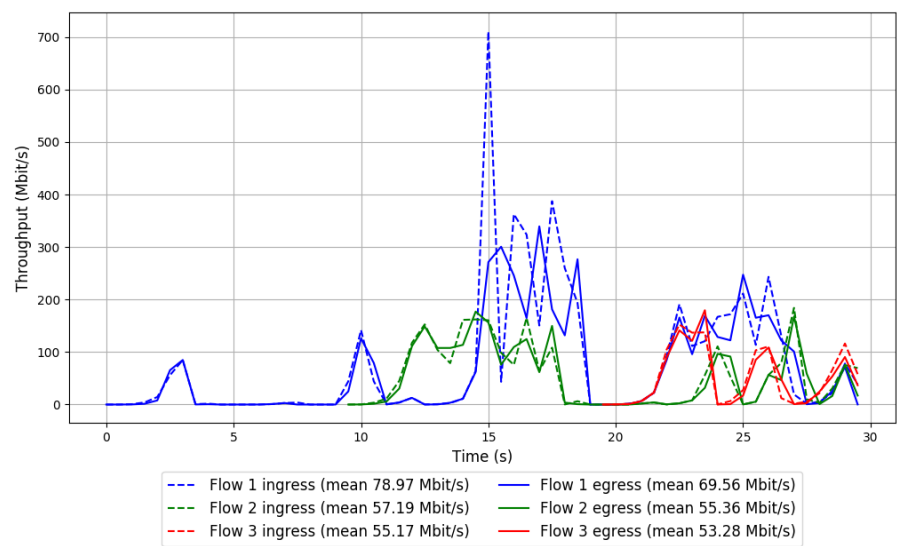
-- Flow 3:

Average throughput: 53.28 Mbit/s

95th percentile per-packet one-way delay: 147.021 ms

Loss rate: 5.53%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 17:08:38

End at: 2018-01-02 17:09:08

Below is generated by plot.py at 2018-01-02 21:05:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.95 Mbit/s

95th percentile per-packet one-way delay: 247.919 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 150.62 Mbit/s

95th percentile per-packet one-way delay: 243.559 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 121.56 Mbit/s

95th percentile per-packet one-way delay: 269.422 ms

Loss rate: 5.42%

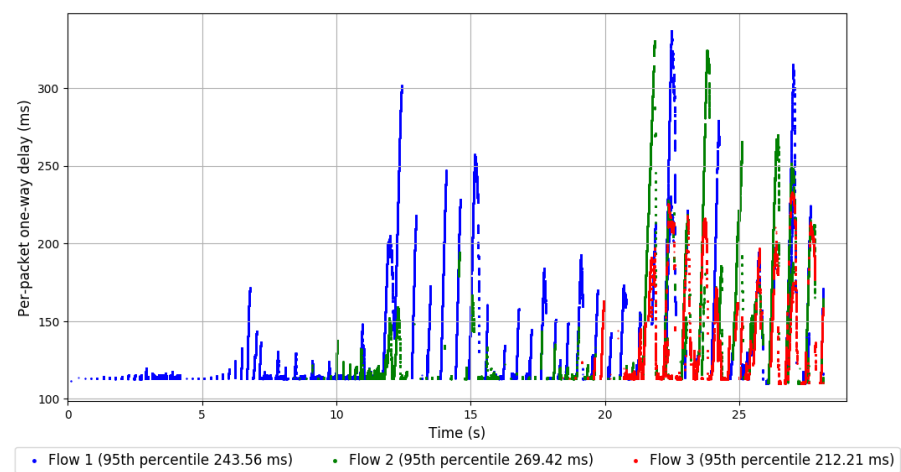
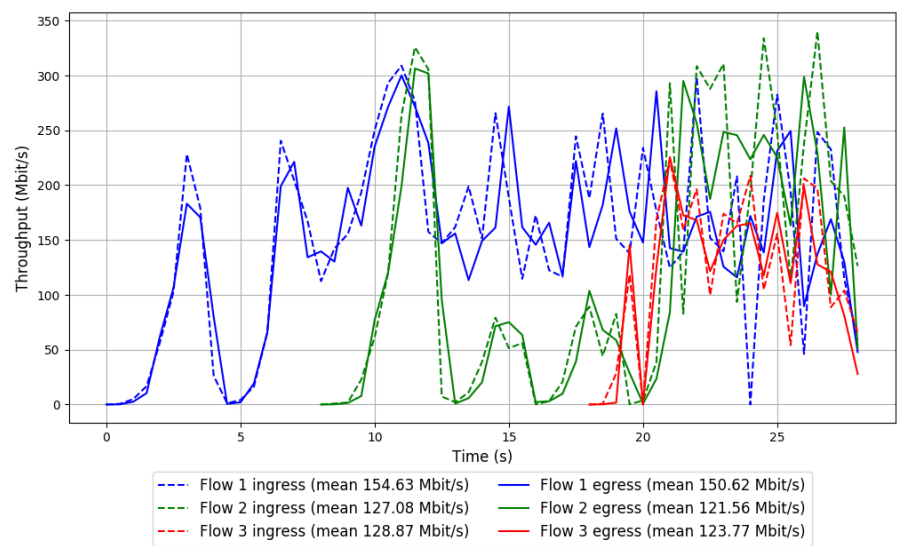
-- Flow 3:

Average throughput: 123.77 Mbit/s

95th percentile per-packet one-way delay: 212.209 ms

Loss rate: 4.75%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 17:22:59

End at: 2018-01-02 17:23:29

Below is generated by plot.py at 2018-01-02 21:05:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.06 Mbit/s

95th percentile per-packet one-way delay: 201.649 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 273.725 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 152.65 Mbit/s

95th percentile per-packet one-way delay: 167.364 ms

Loss rate: 0.02%

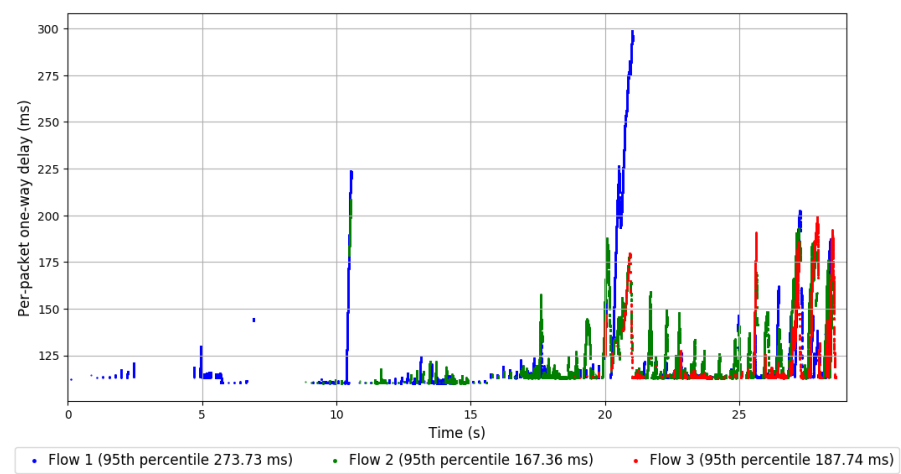
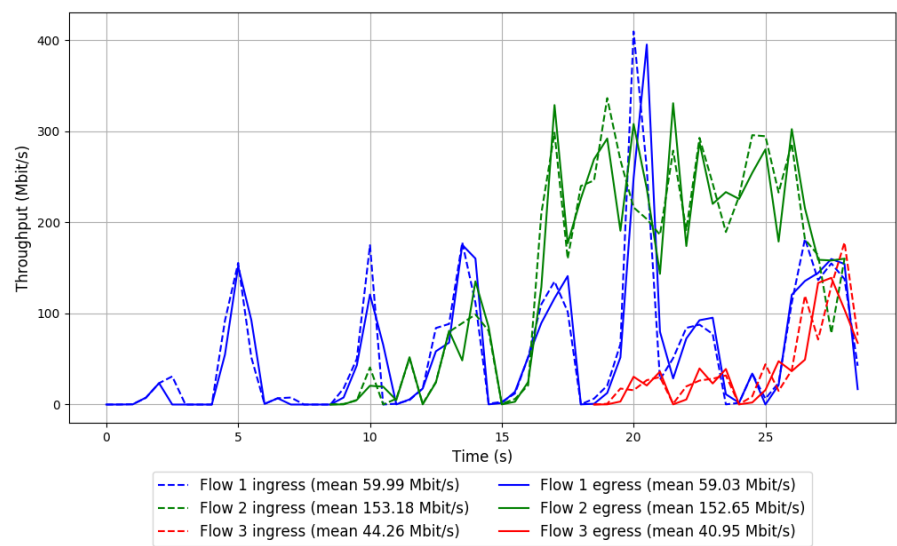
-- Flow 3:

Average throughput: 40.95 Mbit/s

95th percentile per-packet one-way delay: 187.740 ms

Loss rate: 9.63%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 17:38:16

End at: 2018-01-02 17:38:46

Below is generated by plot.py at 2018-01-02 21:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.99 Mbit/s

95th percentile per-packet one-way delay: 192.927 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 157.52 Mbit/s

95th percentile per-packet one-way delay: 176.448 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 186.37 Mbit/s

95th percentile per-packet one-way delay: 207.070 ms

Loss rate: 2.82%

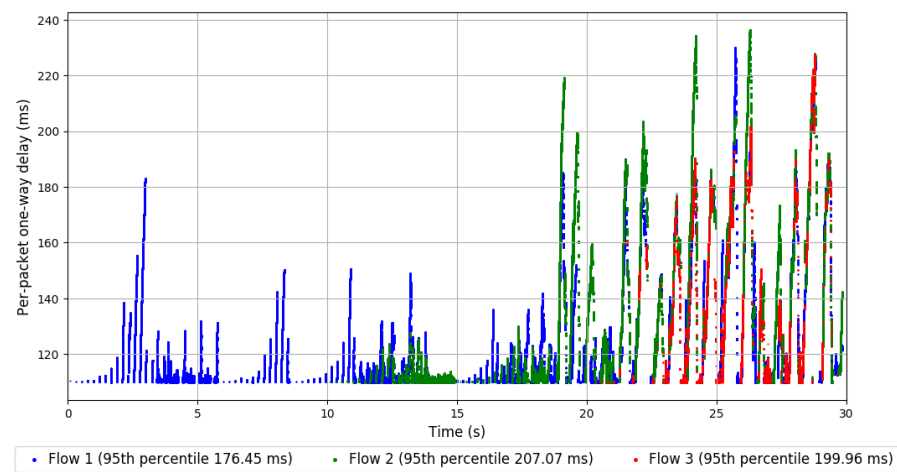
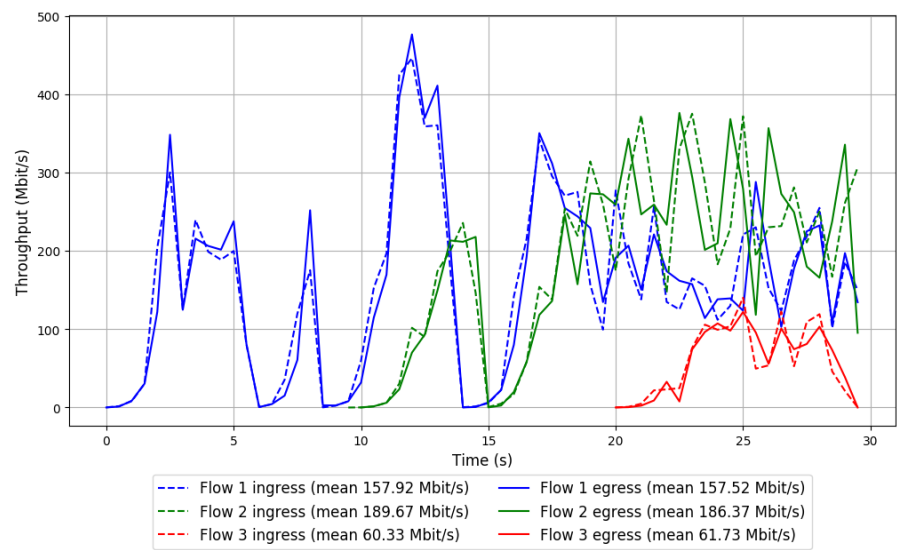
-- Flow 3:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 199.960 ms

Loss rate: 0.08%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-02 15:28:32

End at: 2018-01-02 15:29:02

Below is generated by plot.py at 2018-01-02 21:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.89 Mbit/s

95th percentile per-packet one-way delay: 112.610 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 112.559 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 70.95 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 1.38%

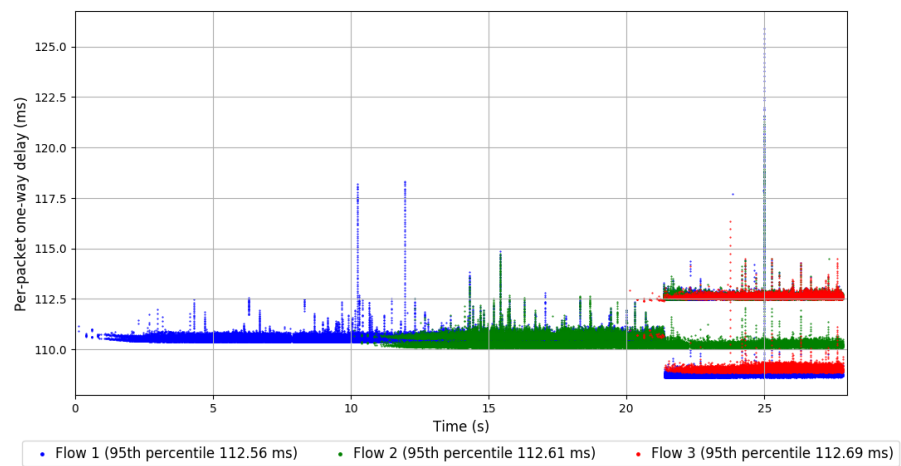
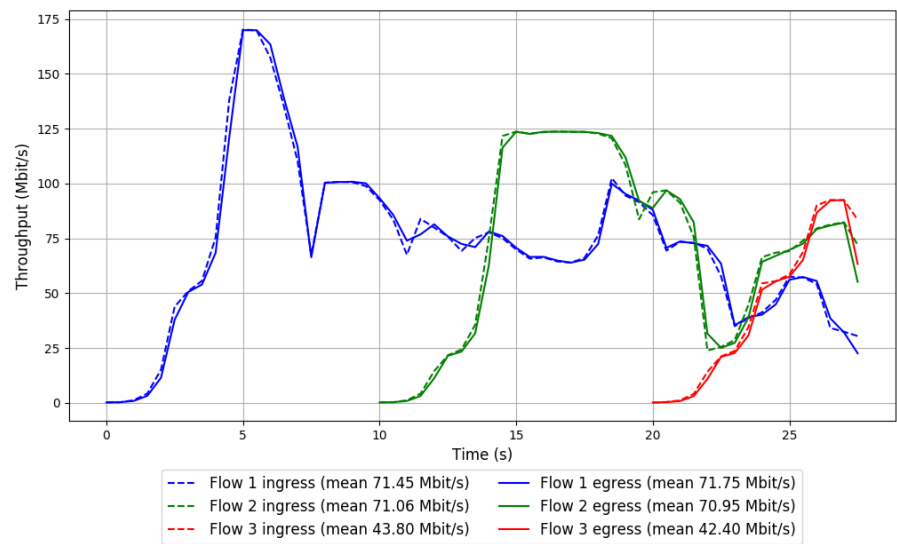
-- Flow 3:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 112.692 ms

Loss rate: 5.88%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 15:43:43

End at: 2018-01-02 15:44:13

Below is generated by plot.py at 2018-01-02 21:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.64 Mbit/s

95th percentile per-packet one-way delay: 113.047 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 69.94 Mbit/s

95th percentile per-packet one-way delay: 113.052 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 40.02 Mbit/s

95th percentile per-packet one-way delay: 112.666 ms

Loss rate: 1.17%

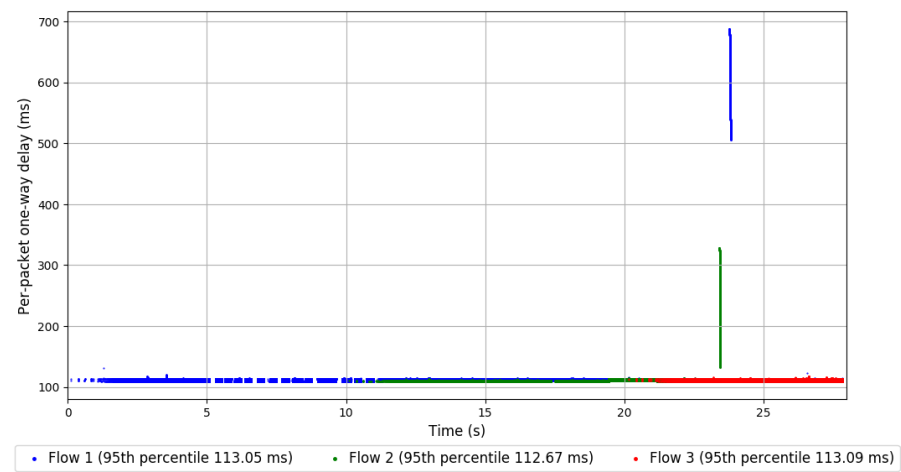
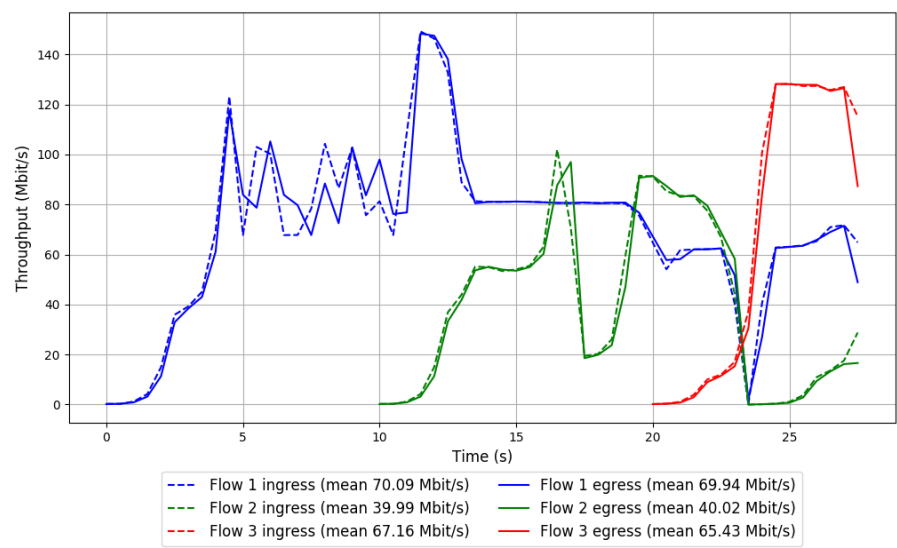
-- Flow 3:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 113.091 ms

Loss rate: 5.30%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 15:59:13

End at: 2018-01-02 15:59:43

Below is generated by plot.py at 2018-01-02 21:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.53 Mbit/s

95th percentile per-packet one-way delay: 112.904 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 74.89 Mbit/s

95th percentile per-packet one-way delay: 112.395 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 56.26 Mbit/s

95th percentile per-packet one-way delay: 113.004 ms

Loss rate: 0.83%

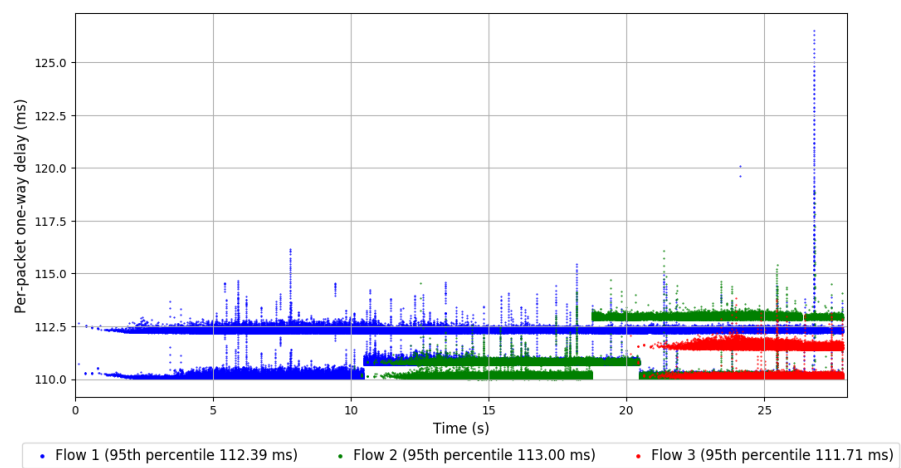
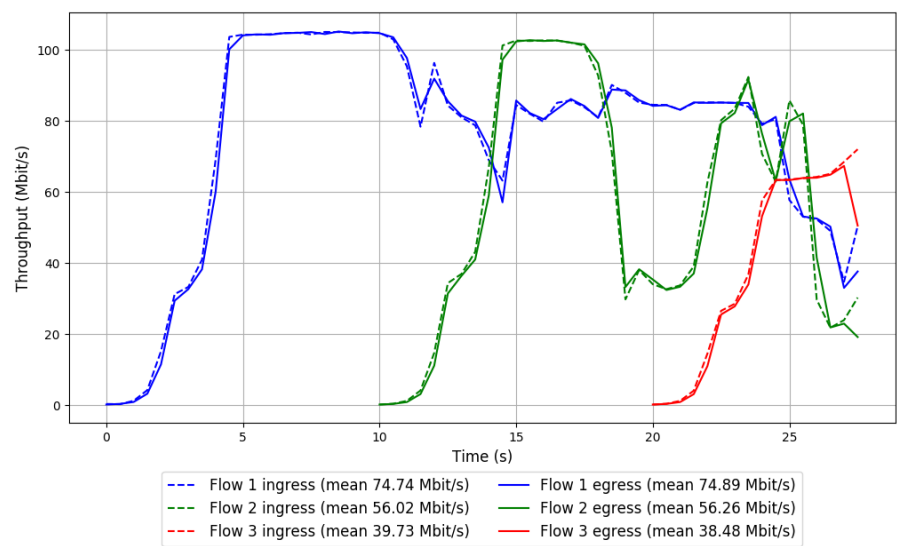
-- Flow 3:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 111.707 ms

Loss rate: 5.90%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 16:14:26

End at: 2018-01-02 16:14:56

Below is generated by plot.py at 2018-01-02 21:08:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.32 Mbit/s

95th percentile per-packet one-way delay: 113.187 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 114.852 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 60.35 Mbit/s

95th percentile per-packet one-way delay: 112.620 ms

Loss rate: 0.78%

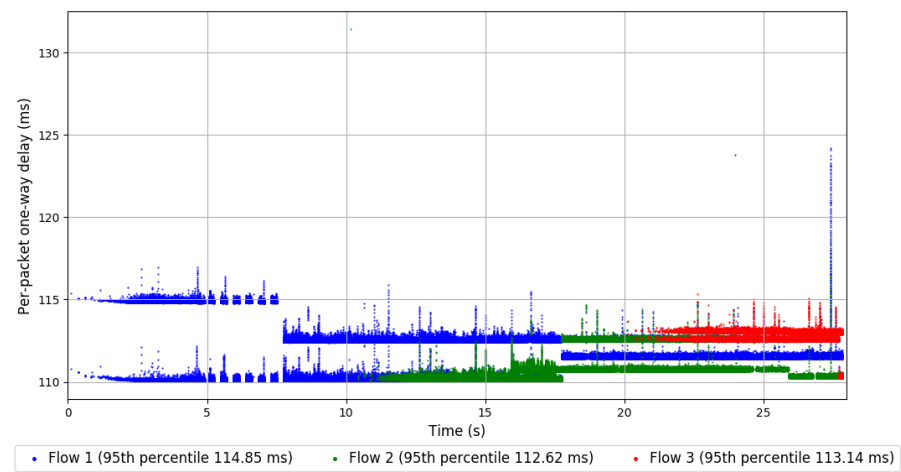
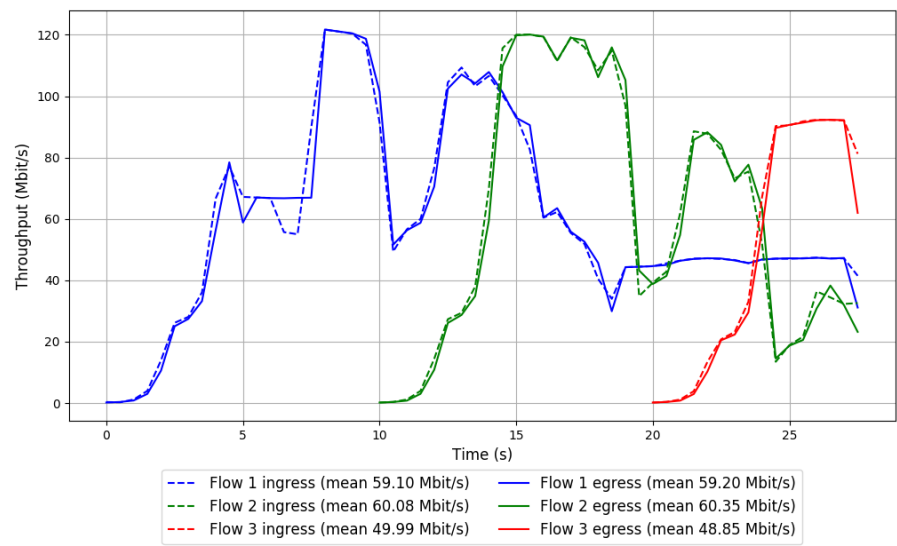
-- Flow 3:

Average throughput: 48.85 Mbit/s

95th percentile per-packet one-way delay: 113.145 ms

Loss rate: 5.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 16:29:20

End at: 2018-01-02 16:29:50

Below is generated by plot.py at 2018-01-02 21:08:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.92 Mbit/s

95th percentile per-packet one-way delay: 112.838 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 112.781 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 110.783 ms

Loss rate: 1.81%

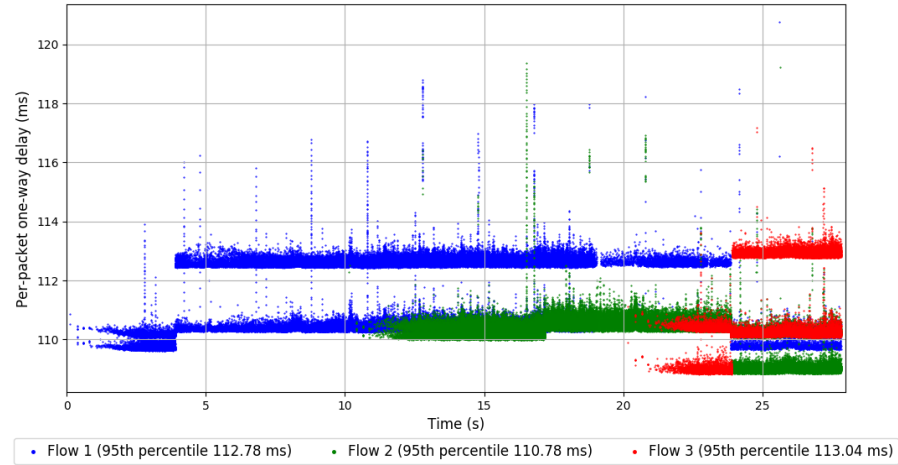
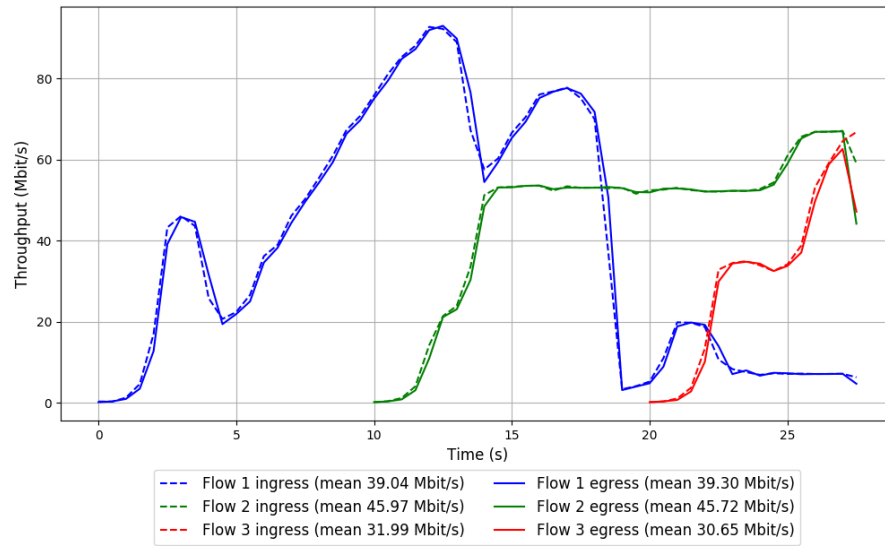
-- Flow 3:

Average throughput: 30.65 Mbit/s

95th percentile per-packet one-way delay: 113.043 ms

Loss rate: 6.90%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 16:43:29

End at: 2018-01-02 16:43:59

Below is generated by plot.py at 2018-01-02 21:08:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.38 Mbit/s

95th percentile per-packet one-way delay: 113.380 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 67.26 Mbit/s

95th percentile per-packet one-way delay: 113.389 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 113.357 ms

Loss rate: 1.07%

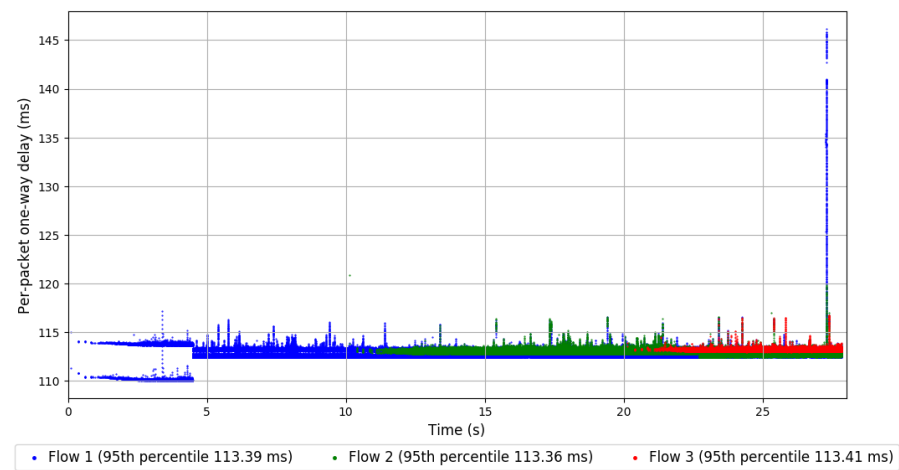
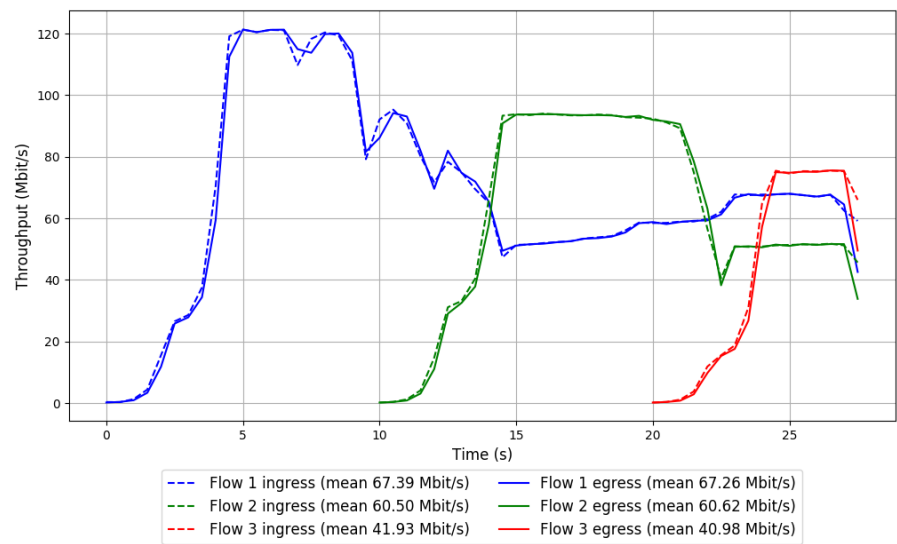
-- Flow 3:

Average throughput: 40.98 Mbit/s

95th percentile per-packet one-way delay: 113.409 ms

Loss rate: 5.04%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 16:57:51

End at: 2018-01-02 16:58:21

Below is generated by plot.py at 2018-01-02 21:09:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.10 Mbit/s

95th percentile per-packet one-way delay: 113.319 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 60.86 Mbit/s

95th percentile per-packet one-way delay: 113.311 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 113.327 ms

Loss rate: 1.00%

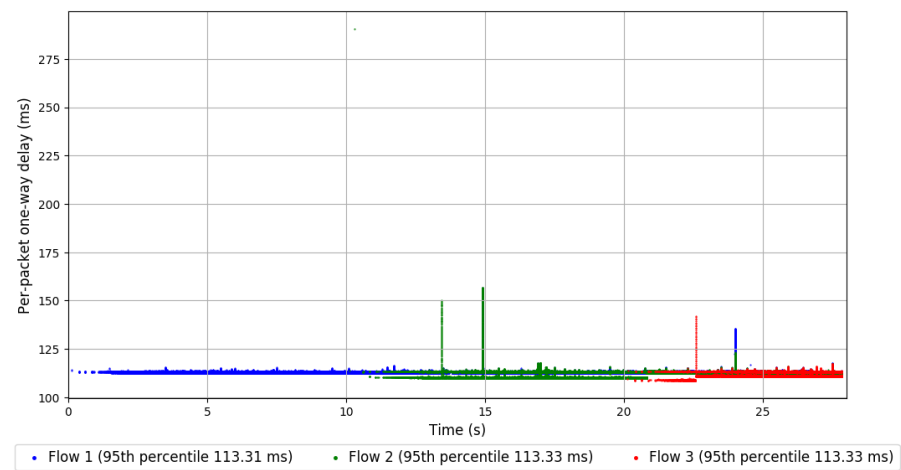
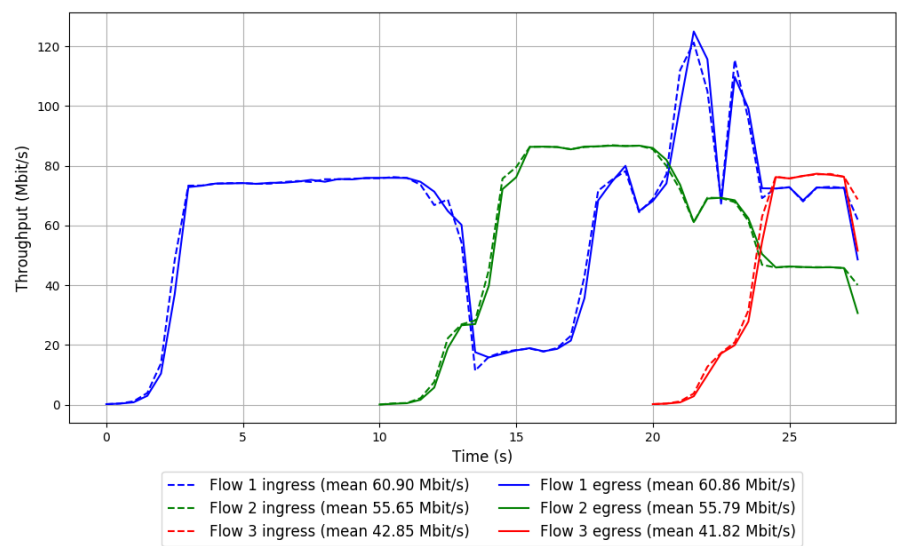
-- Flow 3:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 113.332 ms

Loss rate: 5.12%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 17:12:41

End at: 2018-01-02 17:13:11

Below is generated by plot.py at 2018-01-02 21:09:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.81 Mbit/s

95th percentile per-packet one-way delay: 113.038 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 70.52 Mbit/s

95th percentile per-packet one-way delay: 112.984 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 60.51 Mbit/s

95th percentile per-packet one-way delay: 113.116 ms

Loss rate: 1.29%

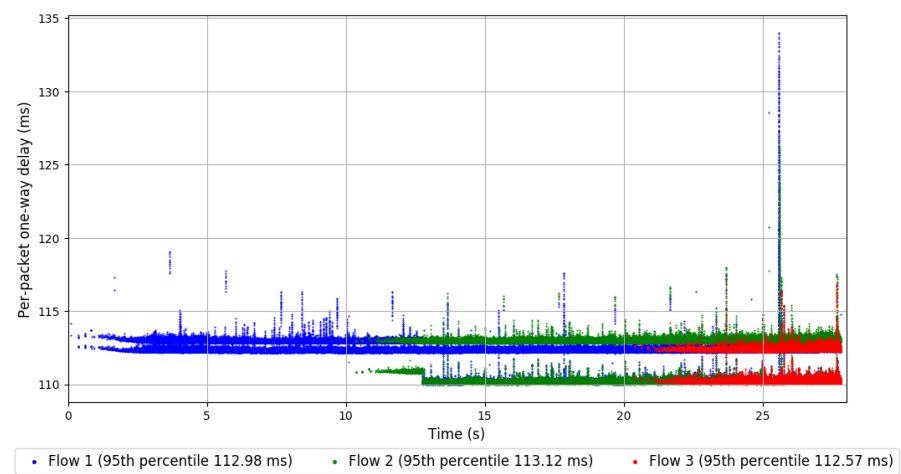
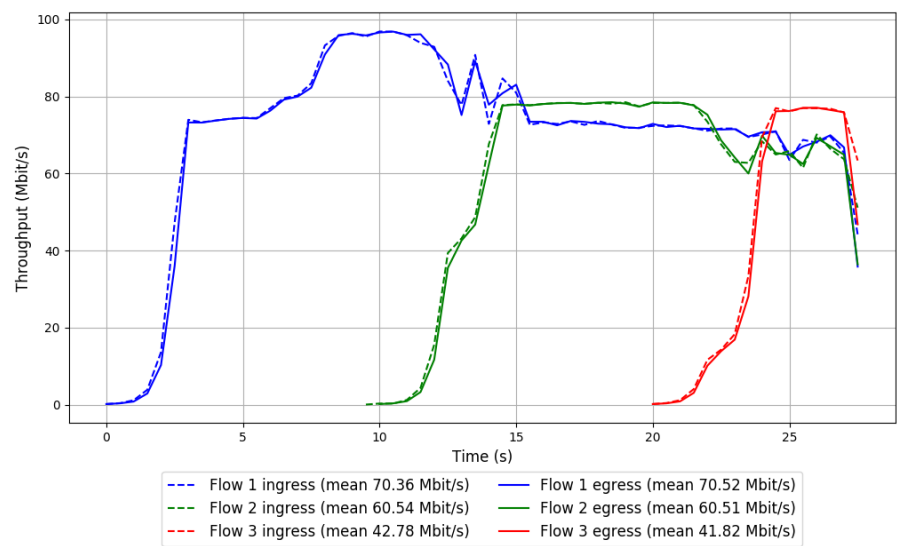
-- Flow 3:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 112.570 ms

Loss rate: 4.99%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 17:26:57

End at: 2018-01-02 17:27:27

Below is generated by plot.py at 2018-01-02 21:10:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.38 Mbit/s

95th percentile per-packet one-way delay: 112.950 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 112.926 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 59.37 Mbit/s

95th percentile per-packet one-way delay: 112.961 ms

Loss rate: 1.54%

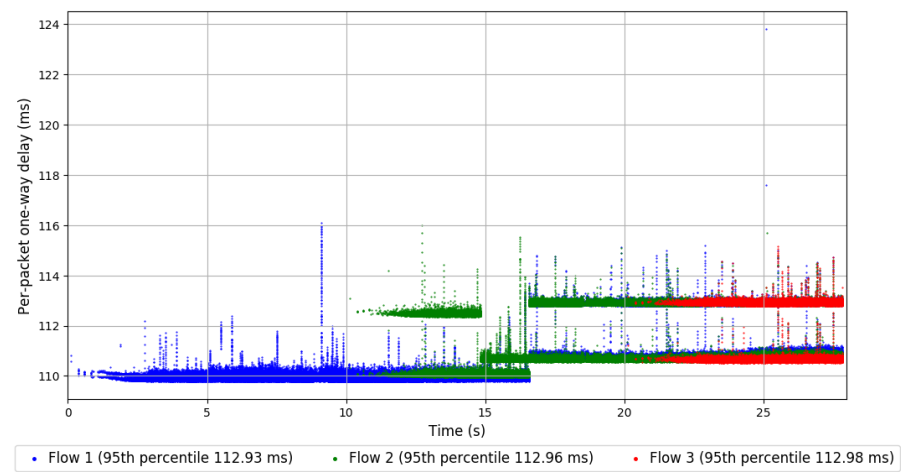
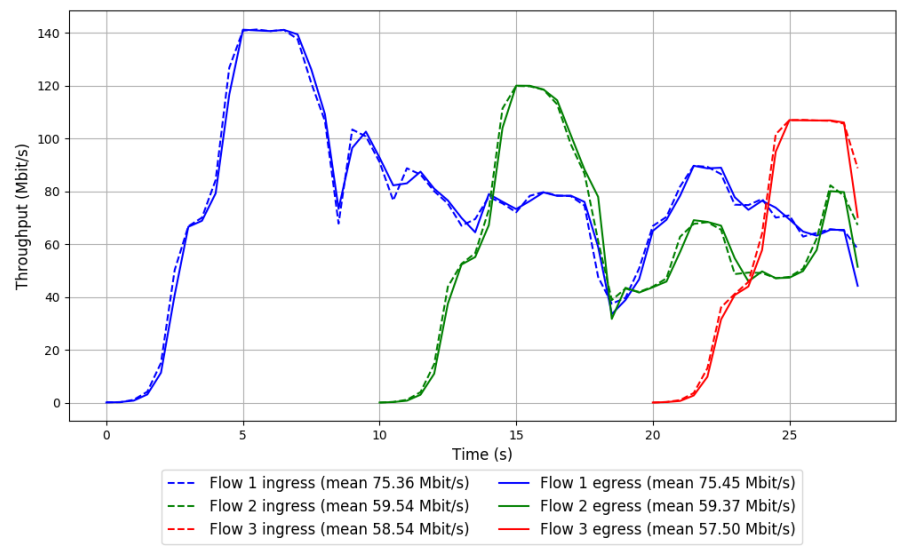
-- Flow 3:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 112.984 ms

Loss rate: 4.54%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 17:42:24

End at: 2018-01-02 17:42:54

Below is generated by plot.py at 2018-01-02 21:10:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 114.831 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 114.831 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 132.730 ms

Loss rate: 46.17%

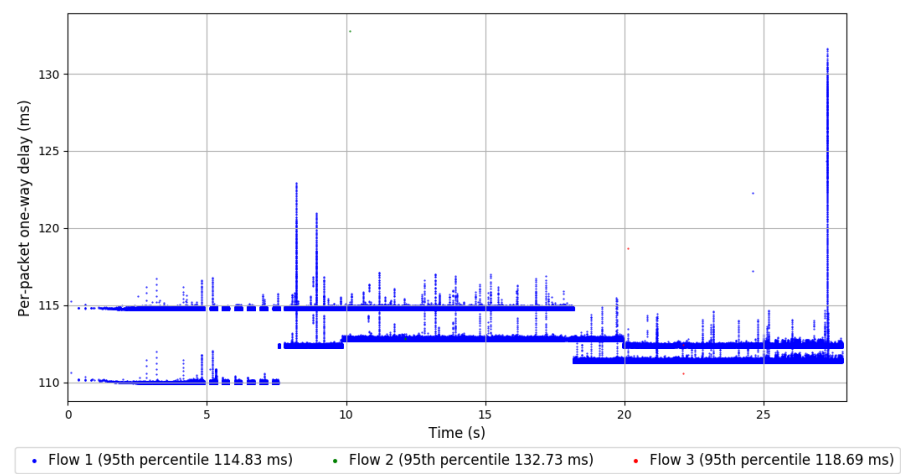
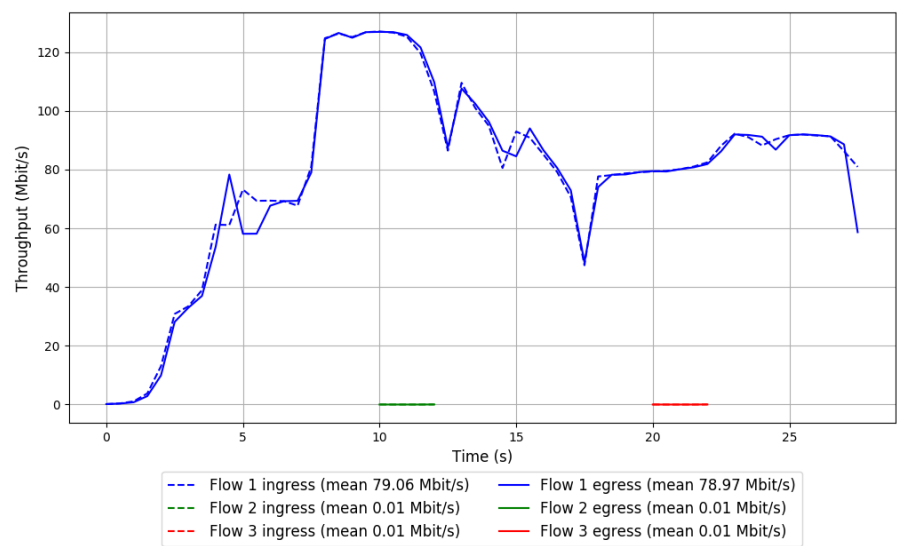
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 118.695 ms

Loss rate: 46.17%

Run 10: Report of Copa — Data Link

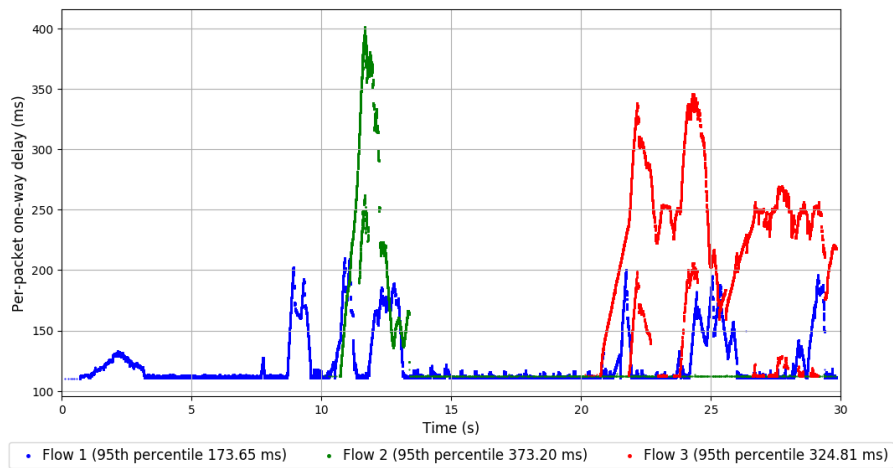
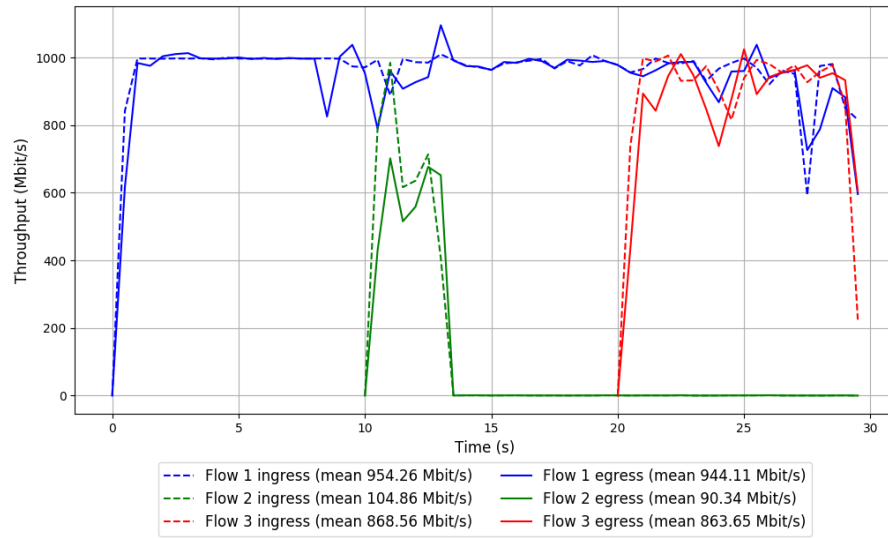


```
Run 1: Statistics of FillP

Start at: 2018-01-02 15:29:34
End at: 2018-01-02 15:30:04

# Below is generated by plot.py at 2018-01-02 21:28:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1285.30 Mbit/s
95th percentile per-packet one-way delay: 266.862 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 944.11 Mbit/s
95th percentile per-packet one-way delay: 173.654 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 373.197 ms
Loss rate: 14.77%
-- Flow 3:
Average throughput: 863.65 Mbit/s
95th percentile per-packet one-way delay: 324.815 ms
Loss rate: 2.11%
```


Run 1: Report of FillP — Data Link

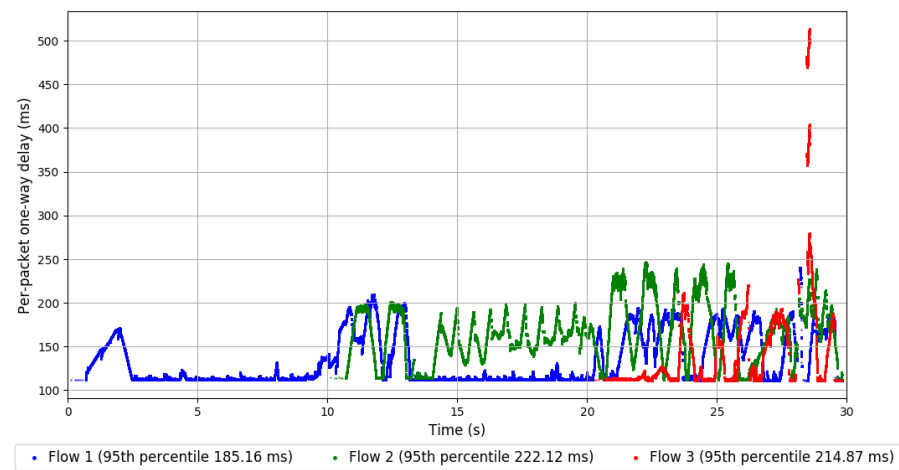
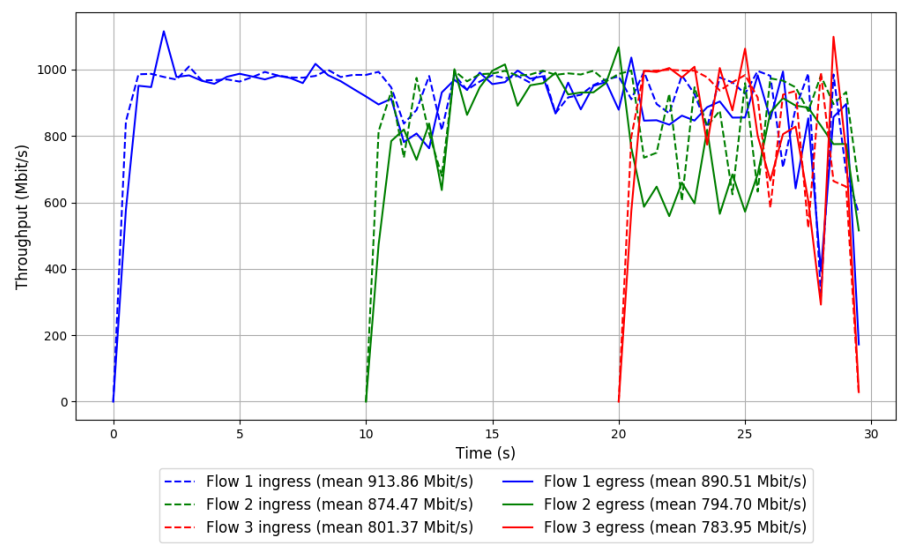


```
Run 2: Statistics of FillP

Start at: 2018-01-02 15:44:42
End at: 2018-01-02 15:45:12

# Below is generated by plot.py at 2018-01-02 21:36:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1672.49 Mbit/s
95th percentile per-packet one-way delay: 197.948 ms
Loss rate: 5.73%
-- Flow 1:
Average throughput: 890.51 Mbit/s
95th percentile per-packet one-way delay: 185.160 ms
Loss rate: 3.28%
-- Flow 2:
Average throughput: 794.70 Mbit/s
95th percentile per-packet one-way delay: 222.121 ms
Loss rate: 10.16%
-- Flow 3:
Average throughput: 783.95 Mbit/s
95th percentile per-packet one-way delay: 214.869 ms
Loss rate: 4.42%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 16:00:15

End at: 2018-01-02 16:00:45

Below is generated by plot.py at 2018-01-02 21:36:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1584.09 Mbit/s

95th percentile per-packet one-way delay: 195.162 ms

Loss rate: 5.02%

-- Flow 1:

Average throughput: 731.01 Mbit/s

95th percentile per-packet one-way delay: 194.178 ms

Loss rate: 3.65%

-- Flow 2:

Average throughput: 907.01 Mbit/s

95th percentile per-packet one-way delay: 187.595 ms

Loss rate: 4.29%

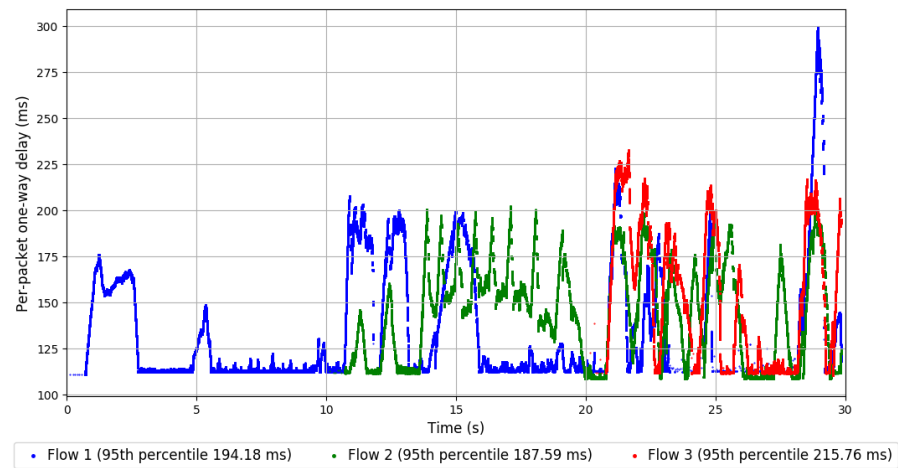
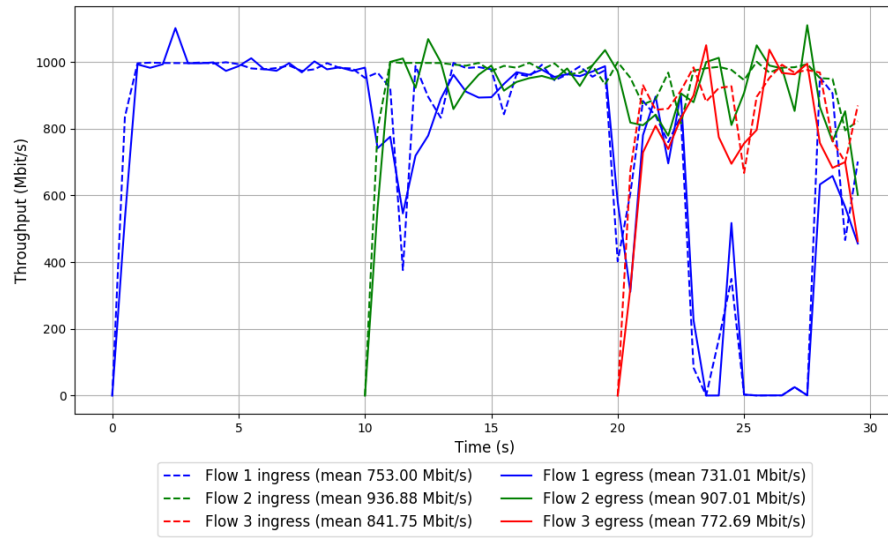
-- Flow 3:

Average throughput: 772.69 Mbit/s

95th percentile per-packet one-way delay: 215.763 ms

Loss rate: 10.39%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 16:15:26

End at: 2018-01-02 16:15:56

Below is generated by plot.py at 2018-01-02 21:36:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 1651.06 Mbit/s

95th percentile per-packet one-way delay: 215.488 ms

Loss rate: 5.48%

-- Flow 1:

Average throughput: 868.58 Mbit/s

95th percentile per-packet one-way delay: 190.670 ms

Loss rate: 3.57%

-- Flow 2:

Average throughput: 810.97 Mbit/s

95th percentile per-packet one-way delay: 205.233 ms

Loss rate: 6.41%

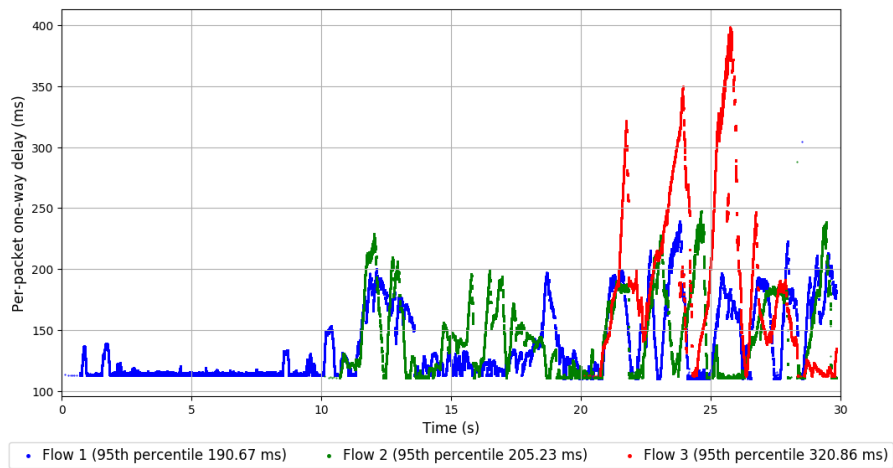
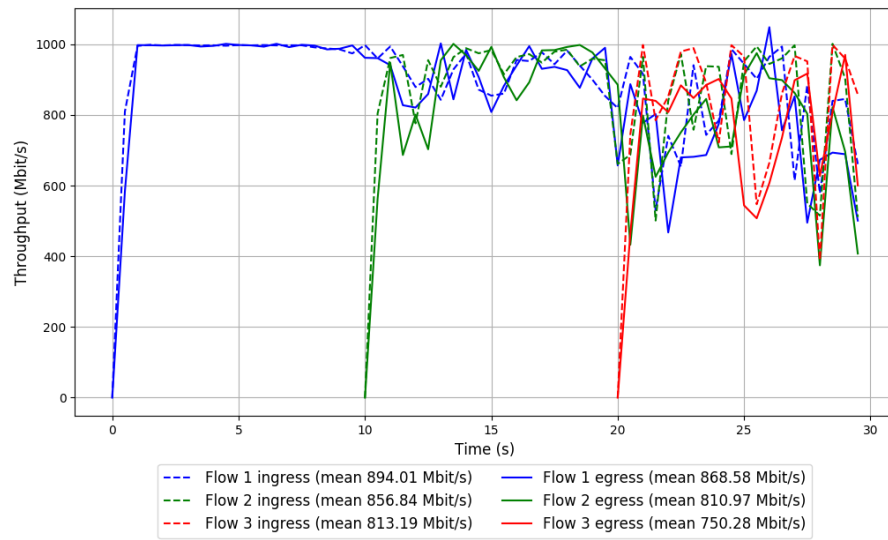
-- Flow 3:

Average throughput: 750.28 Mbit/s

95th percentile per-packet one-way delay: 320.863 ms

Loss rate: 9.82%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-02 16:30:16

End at: 2018-01-02 16:30:46

Below is generated by plot.py at 2018-01-02 21:36:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.80 Mbit/s

95th percentile per-packet one-way delay: 135.247 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 126.65 Mbit/s

95th percentile per-packet one-way delay: 128.911 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 219.36 Mbit/s

95th percentile per-packet one-way delay: 137.156 ms

Loss rate: 0.00%

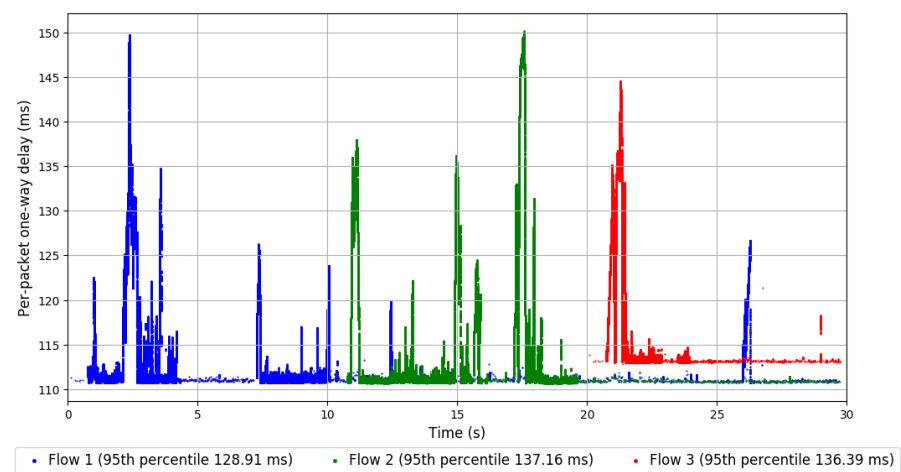
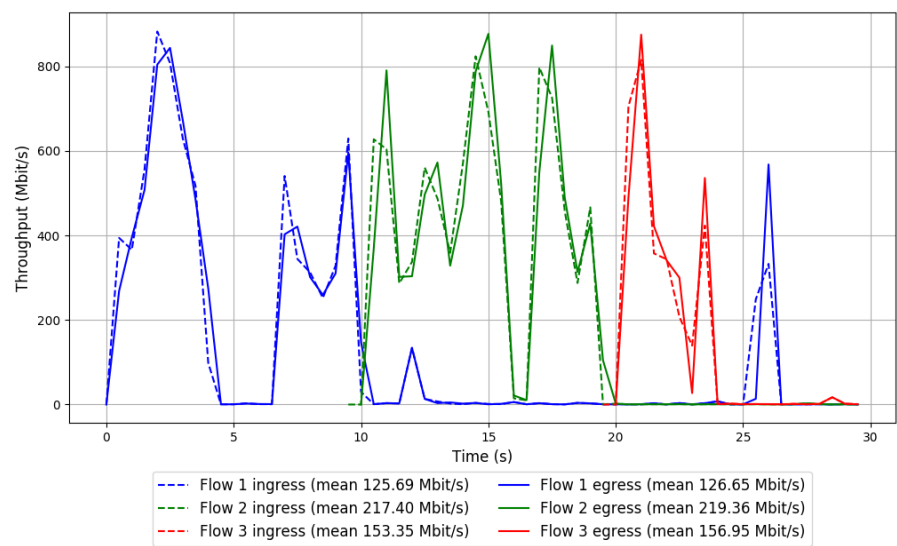
-- Flow 3:

Average throughput: 156.95 Mbit/s

95th percentile per-packet one-way delay: 136.389 ms

Loss rate: 0.02%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 16:44:32

End at: 2018-01-02 16:45:02

Below is generated by plot.py at 2018-01-02 21:36:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 542.22 Mbit/s

95th percentile per-packet one-way delay: 228.085 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 135.09 Mbit/s

95th percentile per-packet one-way delay: 202.923 ms

Loss rate: 4.52%

-- Flow 2:

Average throughput: 511.14 Mbit/s

95th percentile per-packet one-way delay: 237.314 ms

Loss rate: 2.51%

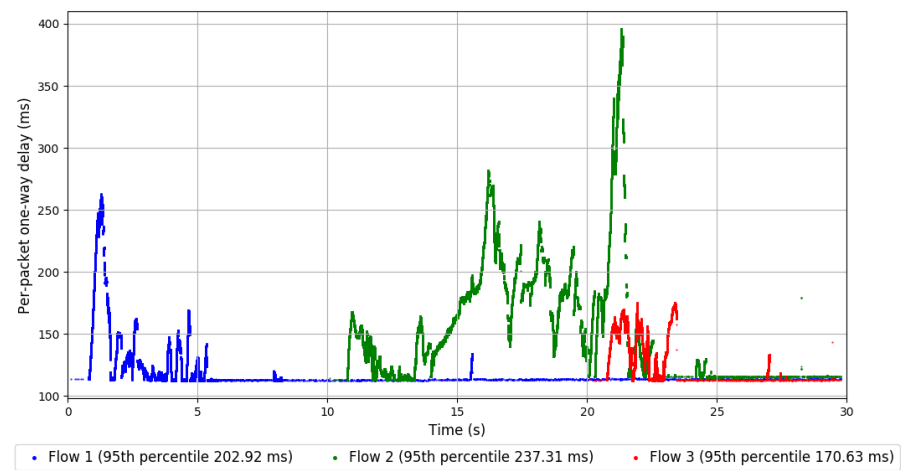
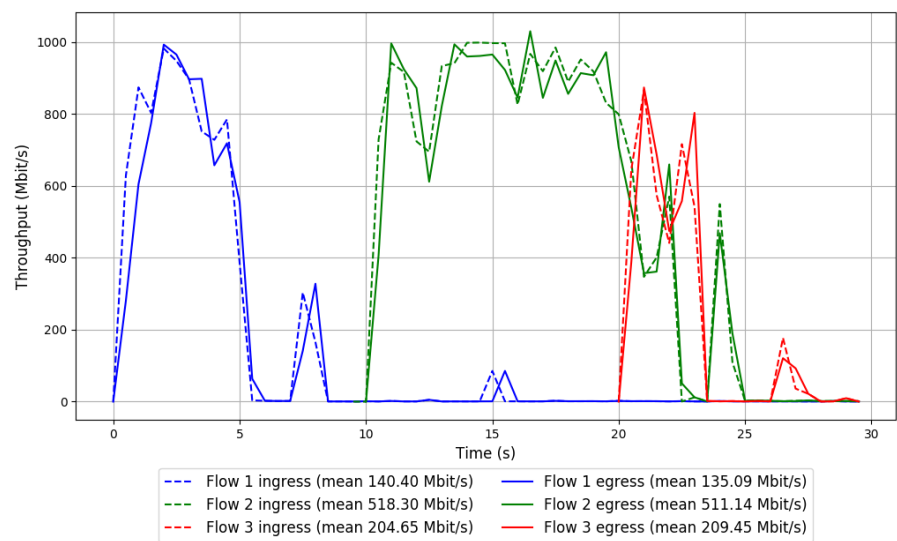
-- Flow 3:

Average throughput: 209.45 Mbit/s

95th percentile per-packet one-way delay: 170.633 ms

Loss rate: 0.03%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-02 16:58:51

End at: 2018-01-02 16:59:21

Below is generated by plot.py at 2018-01-02 21:36:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 1082.75 Mbit/s

95th percentile per-packet one-way delay: 218.519 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 480.22 Mbit/s

95th percentile per-packet one-way delay: 175.260 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 686.98 Mbit/s

95th percentile per-packet one-way delay: 210.447 ms

Loss rate: 1.22%

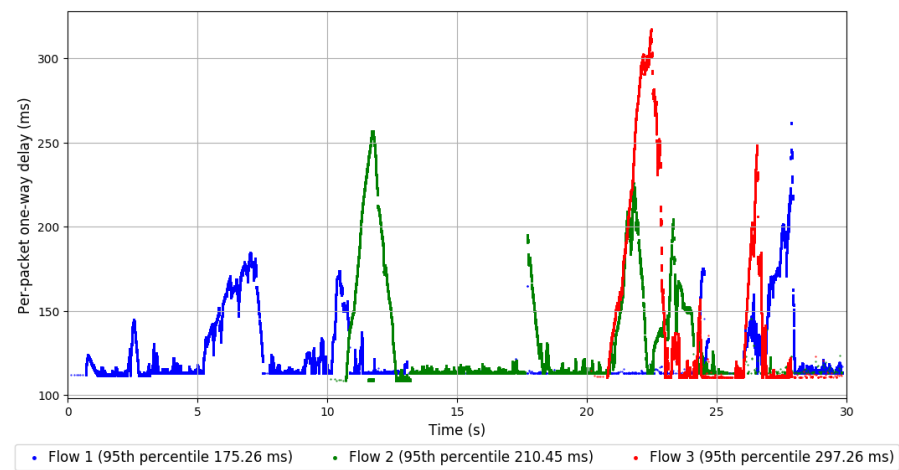
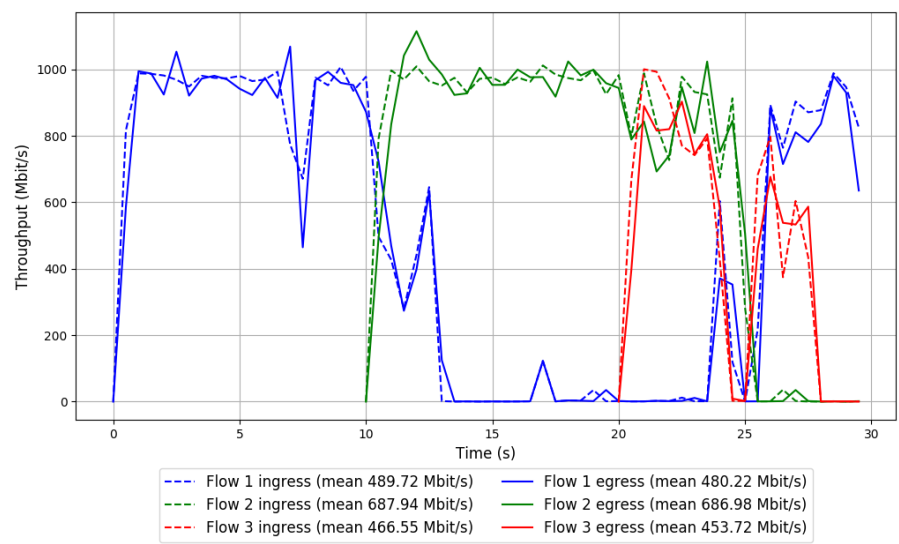
-- Flow 3:

Average throughput: 453.72 Mbit/s

95th percentile per-packet one-way delay: 297.263 ms

Loss rate: 4.75%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 17:13:42

End at: 2018-01-02 17:14:12

Below is generated by plot.py at 2018-01-02 21:36:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.22 Mbit/s

95th percentile per-packet one-way delay: 139.965 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 176.59 Mbit/s

95th percentile per-packet one-way delay: 138.534 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.57 Mbit/s

95th percentile per-packet one-way delay: 125.783 ms

Loss rate: 0.01%

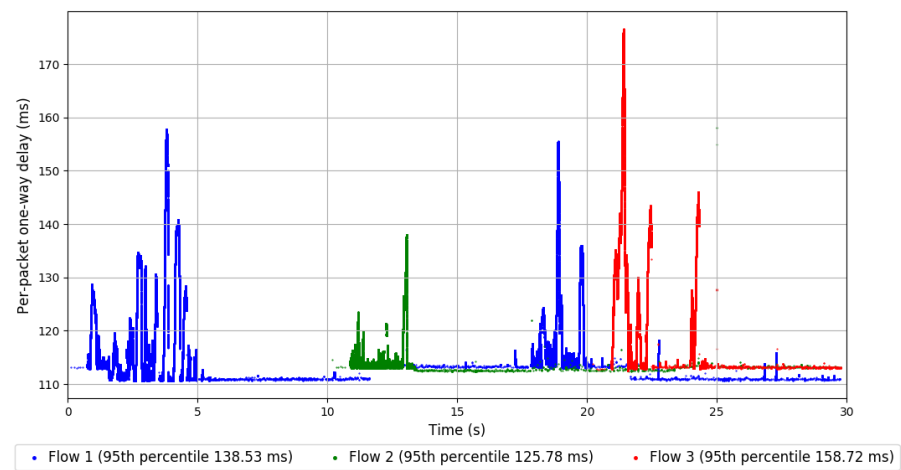
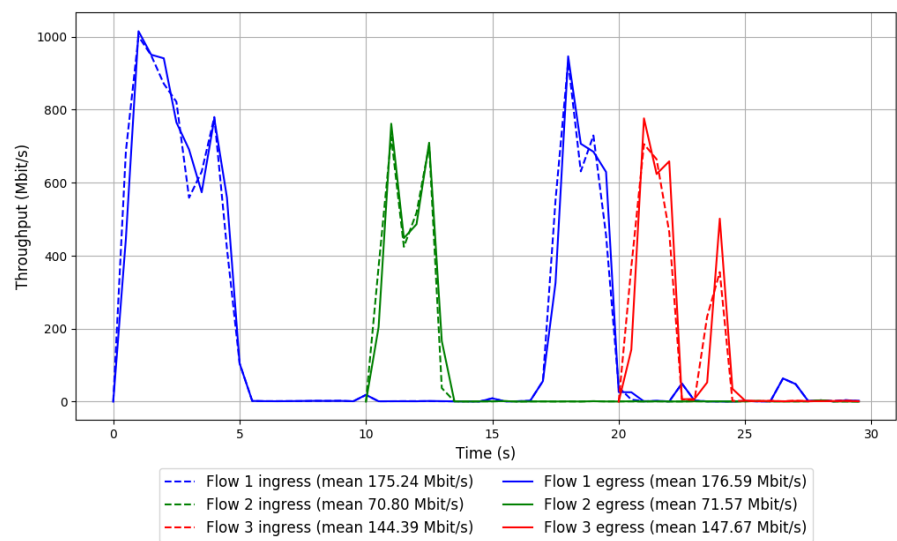
-- Flow 3:

Average throughput: 147.67 Mbit/s

95th percentile per-packet one-way delay: 158.716 ms

Loss rate: 0.02%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-02 17:27:59

End at: 2018-01-02 17:28:29

Below is generated by plot.py at 2018-01-02 21:38:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 1630.18 Mbit/s

95th percentile per-packet one-way delay: 210.364 ms

Loss rate: 7.45%

-- Flow 1:

Average throughput: 858.35 Mbit/s

95th percentile per-packet one-way delay: 211.272 ms

Loss rate: 5.73%

-- Flow 2:

Average throughput: 791.20 Mbit/s

95th percentile per-packet one-way delay: 221.412 ms

Loss rate: 8.28%

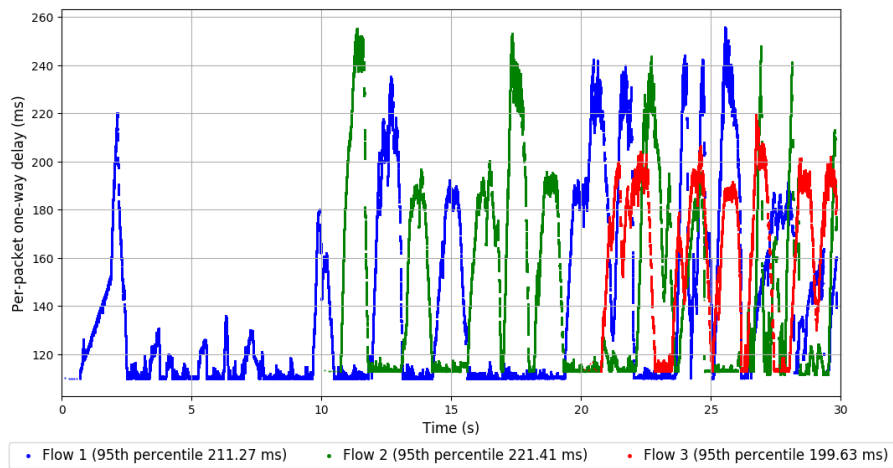
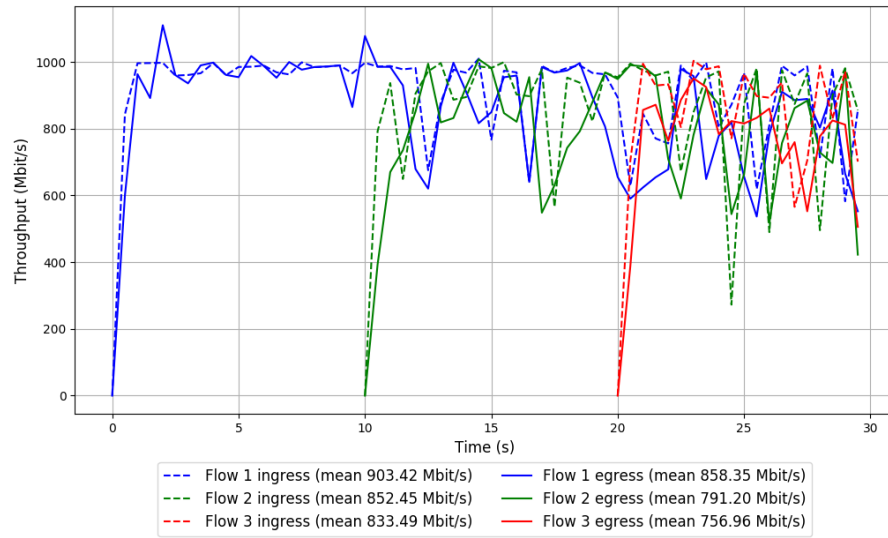
-- Flow 3:

Average throughput: 756.96 Mbit/s

95th percentile per-packet one-way delay: 199.627 ms

Loss rate: 11.34%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-02 17:43:19

End at: 2018-01-02 17:43:49

Below is generated by plot.py at 2018-01-02 21:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 1638.26 Mbit/s

95th percentile per-packet one-way delay: 213.658 ms

Loss rate: 6.96%

-- Flow 1:

Average throughput: 884.76 Mbit/s

95th percentile per-packet one-way delay: 188.201 ms

Loss rate: 4.31%

-- Flow 2:

Average throughput: 769.28 Mbit/s

95th percentile per-packet one-way delay: 247.356 ms

Loss rate: 9.34%

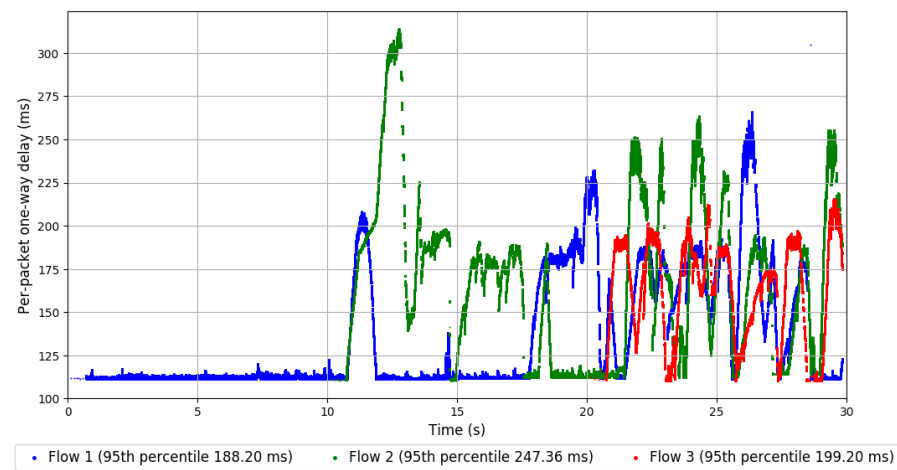
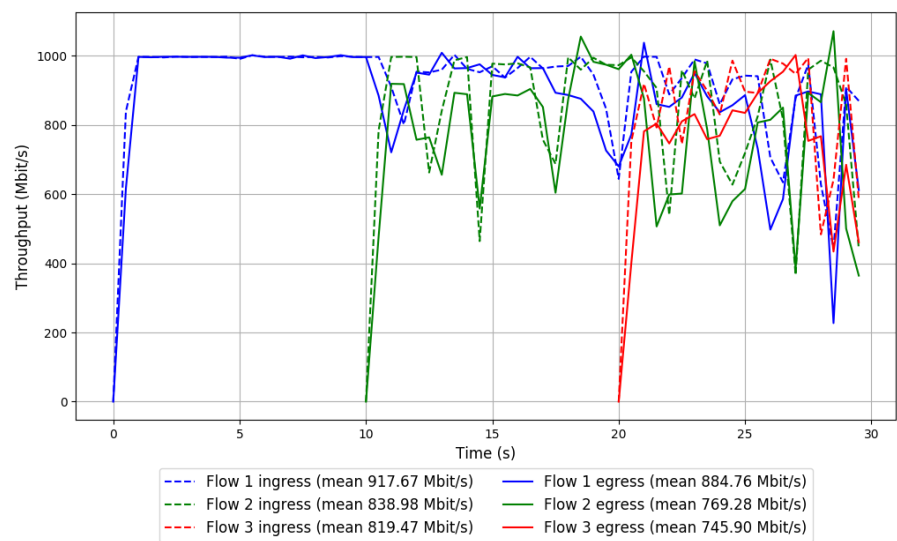
-- Flow 3:

Average throughput: 745.90 Mbit/s

95th percentile per-packet one-way delay: 199.204 ms

Loss rate: 11.04%

Run 10: Report of FillP — Data Link

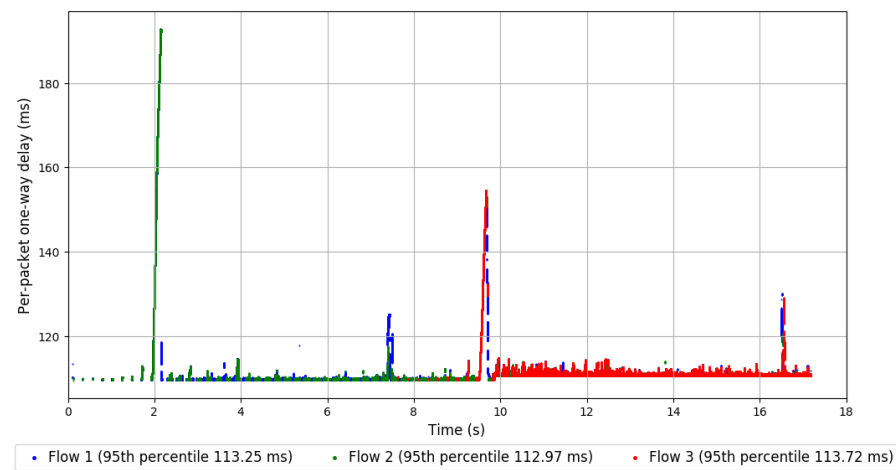
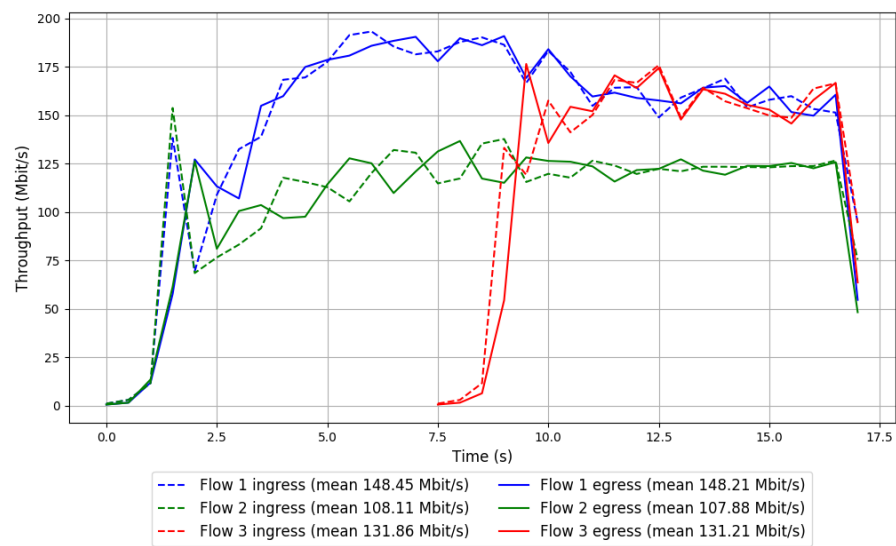


Run 1: Statistics of Indigo

Start at: 2018-01-02 15:32:03

End at: 2018-01-02 15:32:33

Run 1: Report of Indigo — Data Link

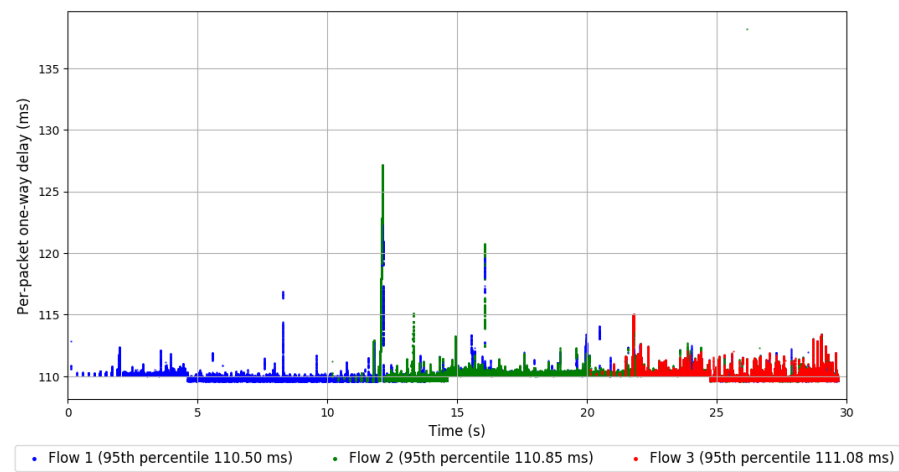
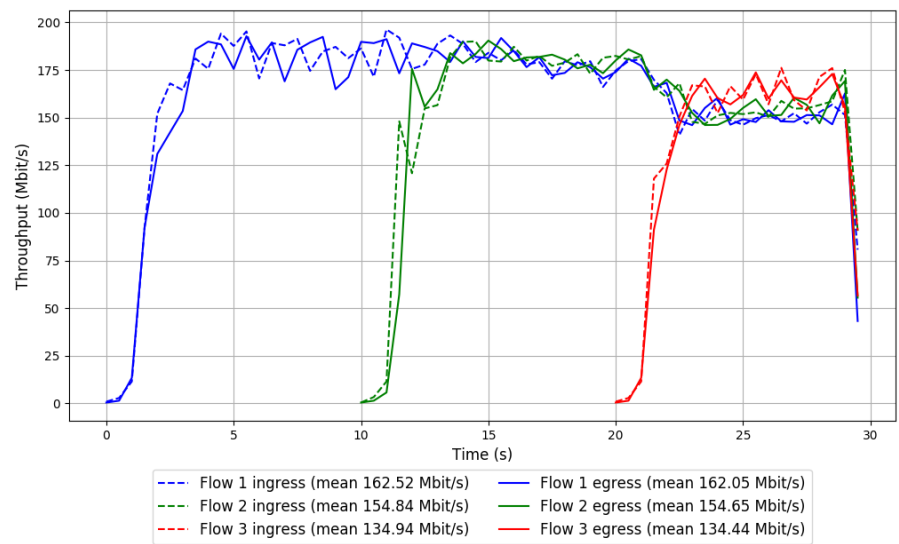


```
Run 2: Statistics of Indigo

Start at: 2018-01-02 15:47:31
End at: 2018-01-02 15:48:01

# Below is generated by plot.py at 2018-01-02 21:38:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.35 Mbit/s
95th percentile per-packet one-way delay: 110.700 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 162.05 Mbit/s
95th percentile per-packet one-way delay: 110.501 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 154.65 Mbit/s
95th percentile per-packet one-way delay: 110.853 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 134.44 Mbit/s
95th percentile per-packet one-way delay: 111.082 ms
Loss rate: 2.67%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 16:02:59

End at: 2018-01-02 16:03:29

Below is generated by plot.py at 2018-01-02 21:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.78 Mbit/s

95th percentile per-packet one-way delay: 111.595 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 164.08 Mbit/s

95th percentile per-packet one-way delay: 111.155 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 154.76 Mbit/s

95th percentile per-packet one-way delay: 111.781 ms

Loss rate: 1.08%

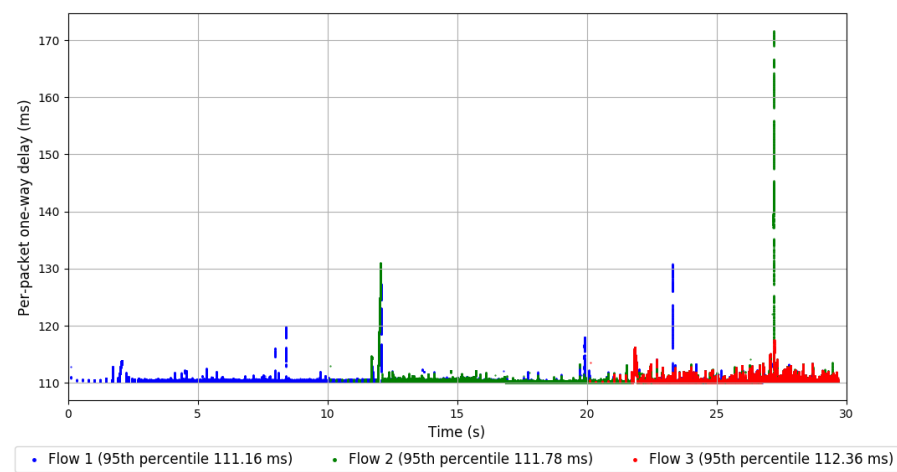
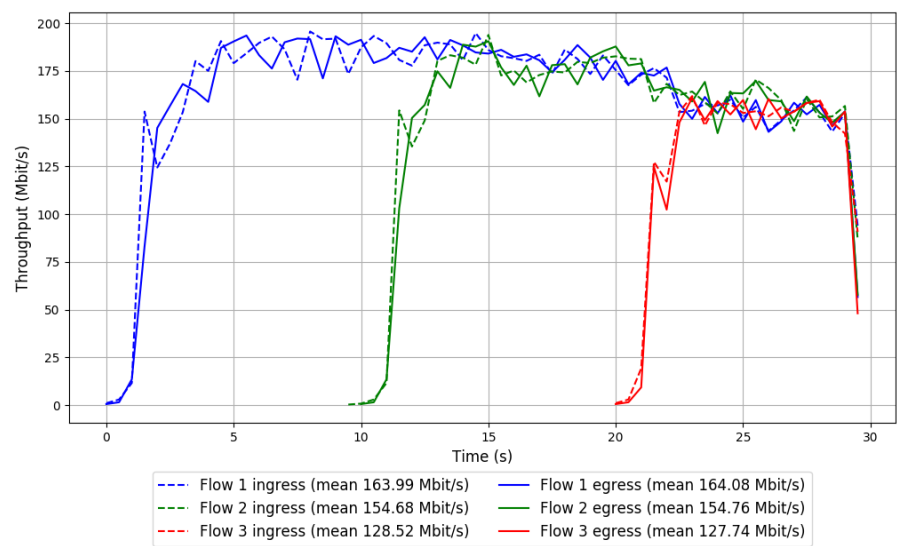
-- Flow 3:

Average throughput: 127.74 Mbit/s

95th percentile per-packet one-way delay: 112.358 ms

Loss rate: 2.82%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 16:18:13

End at: 2018-01-02 16:18:43

Below is generated by plot.py at 2018-01-02 21:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.47 Mbit/s

95th percentile per-packet one-way delay: 110.958 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 148.56 Mbit/s

95th percentile per-packet one-way delay: 110.794 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 136.76 Mbit/s

95th percentile per-packet one-way delay: 111.058 ms

Loss rate: 1.07%

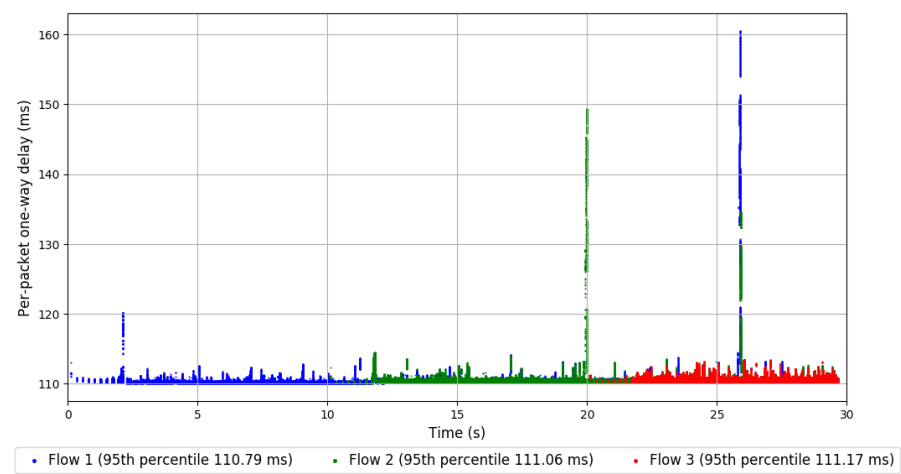
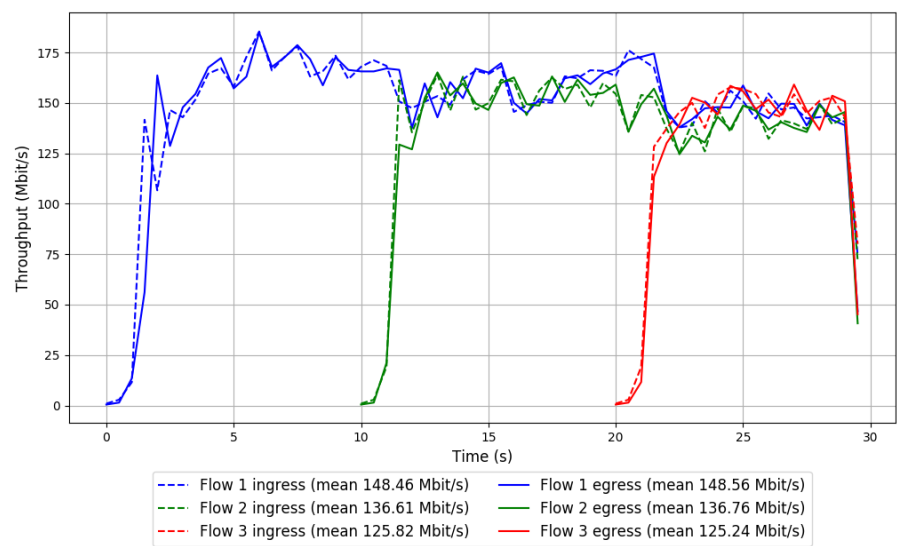
-- Flow 3:

Average throughput: 125.24 Mbit/s

95th percentile per-packet one-way delay: 111.168 ms

Loss rate: 2.74%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 16:32:09

End at: 2018-01-02 16:32:39

Below is generated by plot.py at 2018-01-02 21:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.40 Mbit/s

95th percentile per-packet one-way delay: 114.044 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 145.34 Mbit/s

95th percentile per-packet one-way delay: 113.901 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 134.28 Mbit/s

95th percentile per-packet one-way delay: 114.036 ms

Loss rate: 1.14%

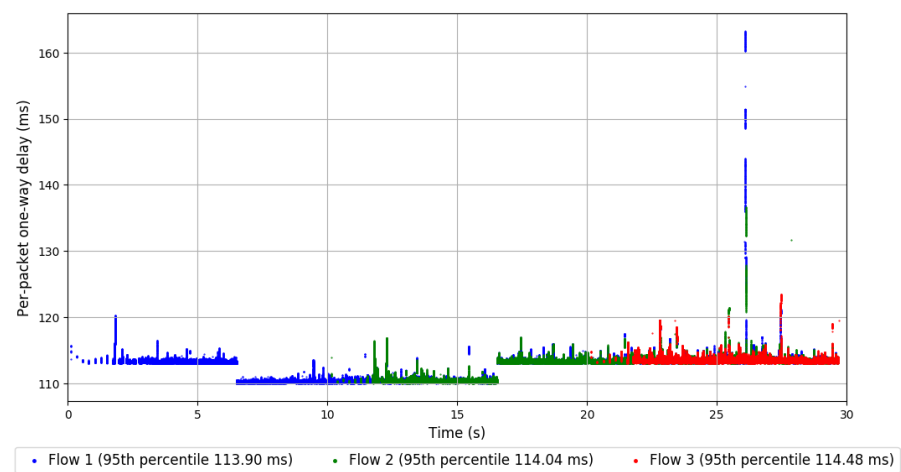
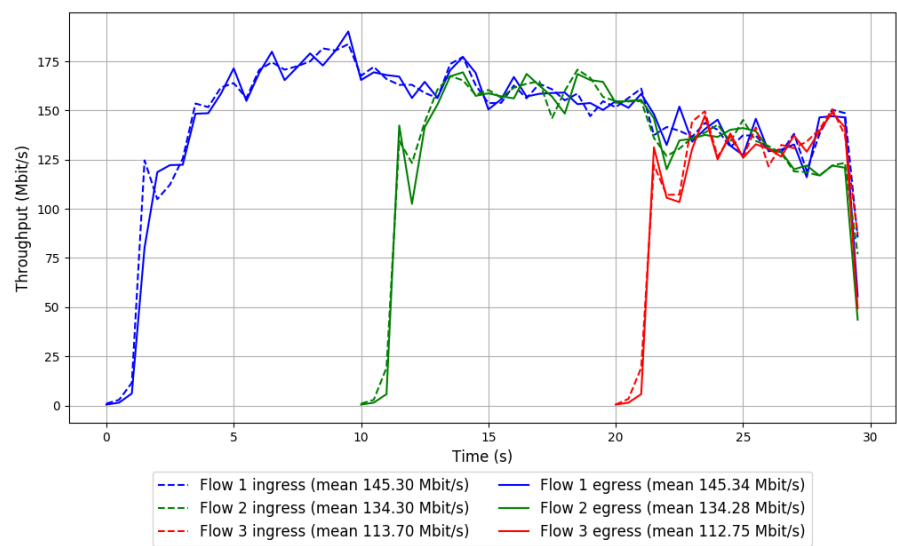
-- Flow 3:

Average throughput: 112.75 Mbit/s

95th percentile per-packet one-way delay: 114.483 ms

Loss rate: 3.07%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 16:46:35

End at: 2018-01-02 16:47:05

Below is generated by plot.py at 2018-01-02 21:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.43 Mbit/s

95th percentile per-packet one-way delay: 117.181 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 97.06 Mbit/s

95th percentile per-packet one-way delay: 114.997 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 75.19 Mbit/s

95th percentile per-packet one-way delay: 116.853 ms

Loss rate: 1.10%

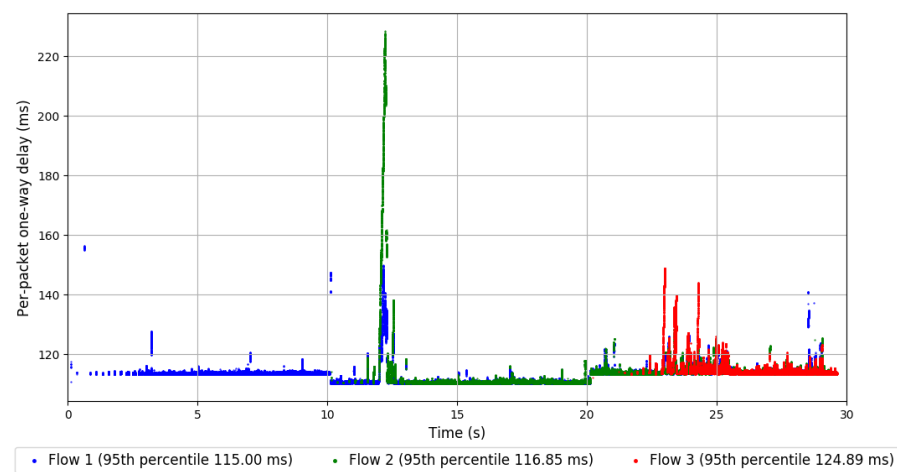
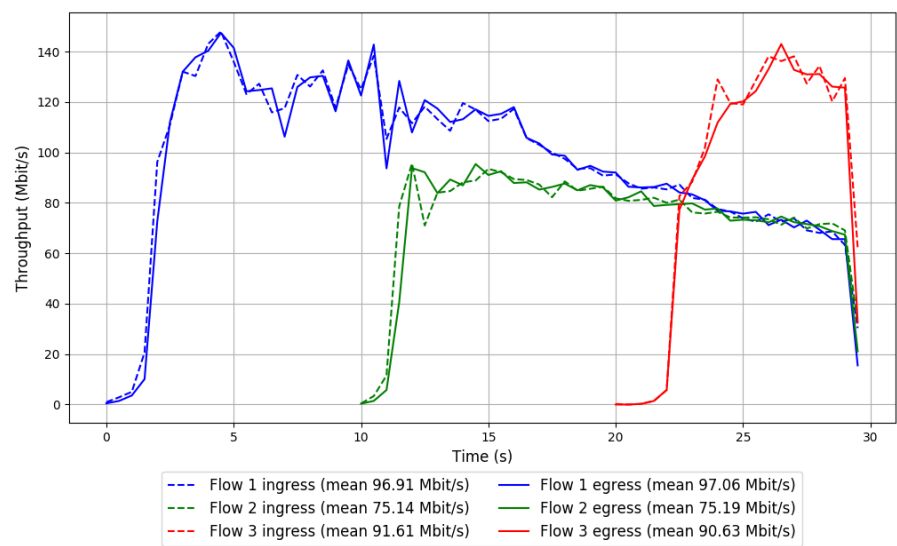
-- Flow 3:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 124.887 ms

Loss rate: 3.38%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 17:01:14

End at: 2018-01-02 17:01:44

Below is generated by plot.py at 2018-01-02 21:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.79 Mbit/s

95th percentile per-packet one-way delay: 115.007 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 151.08 Mbit/s

95th percentile per-packet one-way delay: 115.051 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 124.31 Mbit/s

95th percentile per-packet one-way delay: 113.823 ms

Loss rate: 1.29%

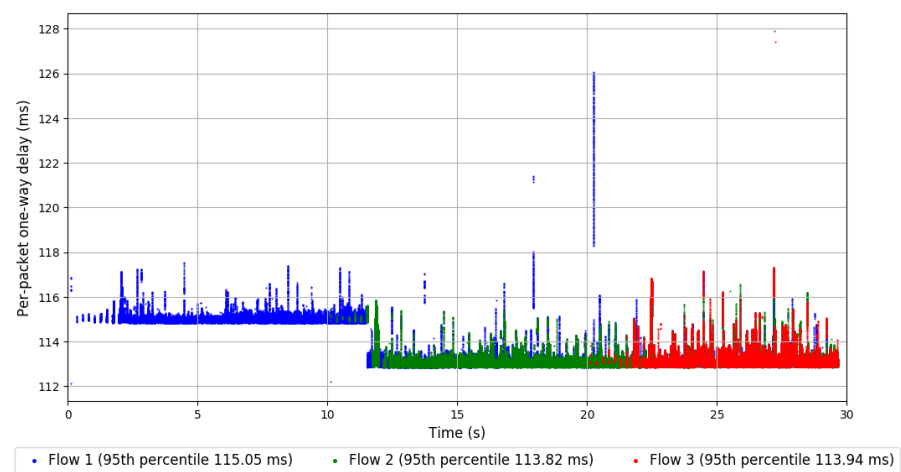
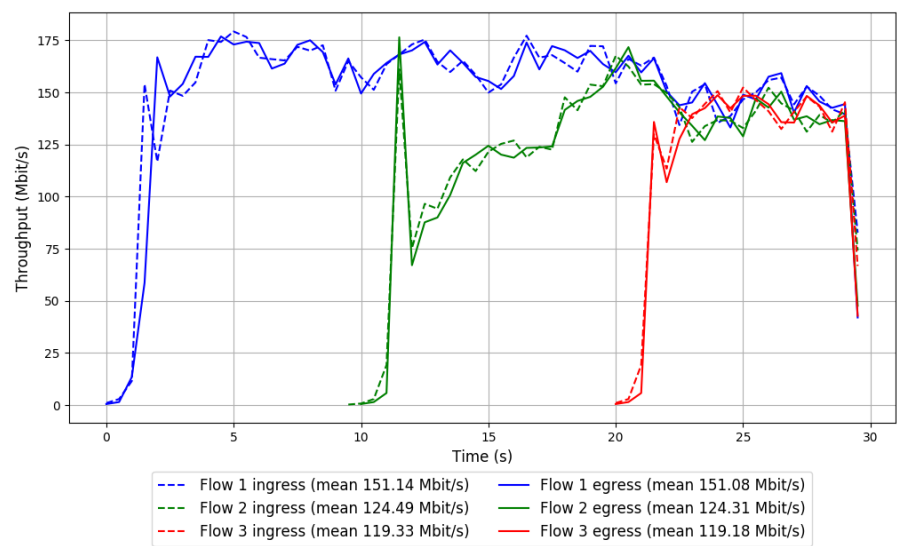
-- Flow 3:

Average throughput: 119.18 Mbit/s

95th percentile per-packet one-way delay: 113.939 ms

Loss rate: 2.45%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 17:15:31

End at: 2018-01-02 17:16:01

Below is generated by plot.py at 2018-01-02 21:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.70 Mbit/s

95th percentile per-packet one-way delay: 113.716 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 134.19 Mbit/s

95th percentile per-packet one-way delay: 113.577 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 136.44 Mbit/s

95th percentile per-packet one-way delay: 114.034 ms

Loss rate: 1.29%

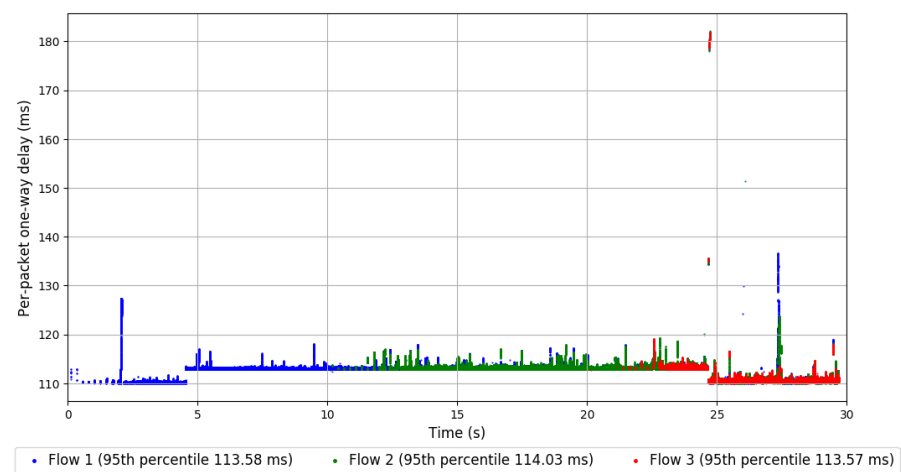
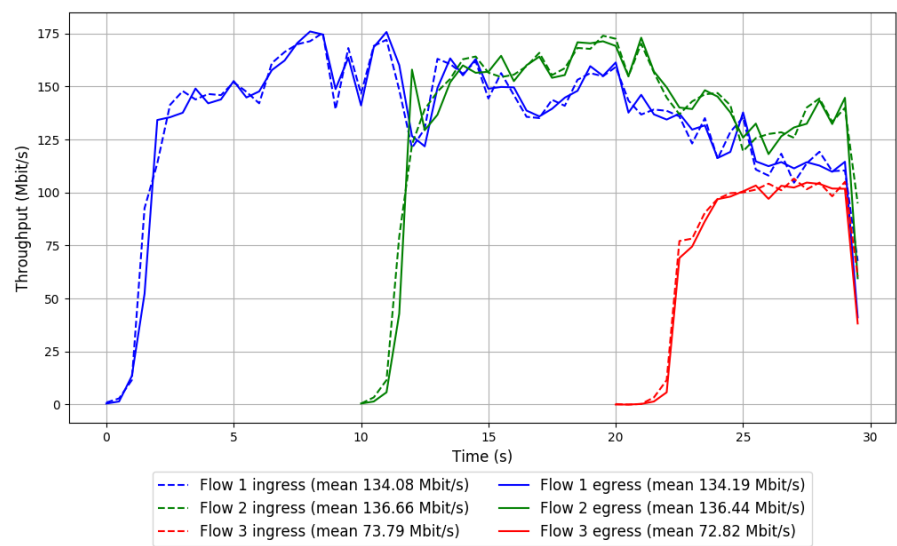
-- Flow 3:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 113.574 ms

Loss rate: 3.58%

Run 8: Report of Indigo — Data Link

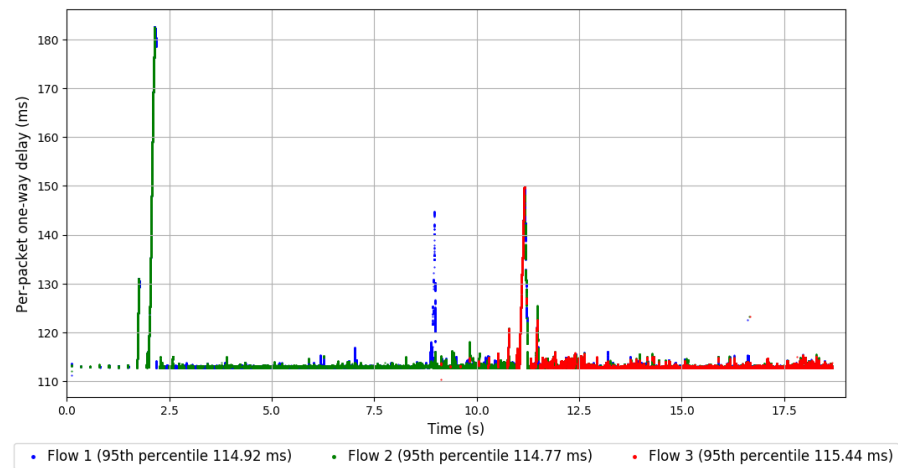
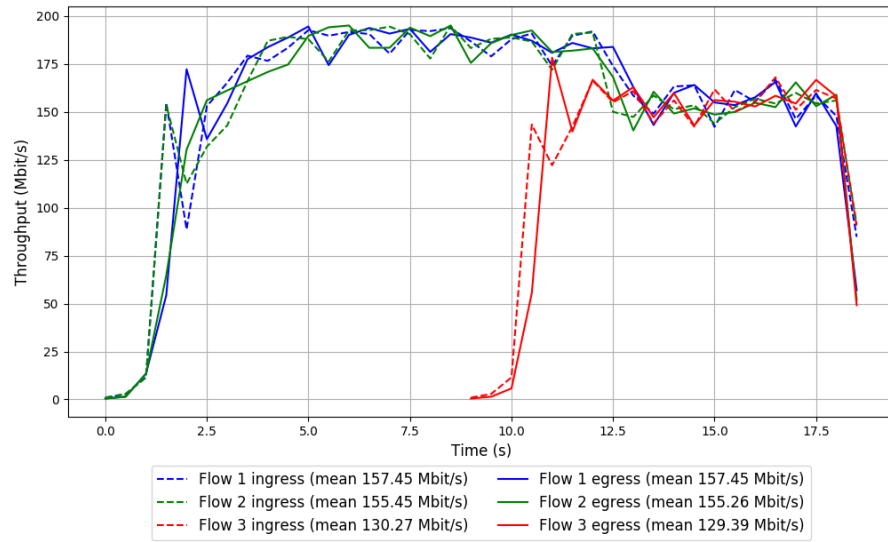


Run 9: Statistics of Indigo

Start at: 2018-01-02 17:30:46

End at: 2018-01-02 17:31:16

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 17:46:06

End at: 2018-01-02 17:46:36

Below is generated by plot.py at 2018-01-02 21:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.27 Mbit/s

95th percentile per-packet one-way delay: 113.461 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 156.65 Mbit/s

95th percentile per-packet one-way delay: 113.168 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 150.06 Mbit/s

95th percentile per-packet one-way delay: 113.613 ms

Loss rate: 1.30%

-- Flow 3:

Average throughput: 123.25 Mbit/s

95th percentile per-packet one-way delay: 114.338 ms

Loss rate: 2.83%

Run 10: Report of Indigo — Data Link

