

Pantheon Report

Generated at 2018-08-22 22:52:26 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

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

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

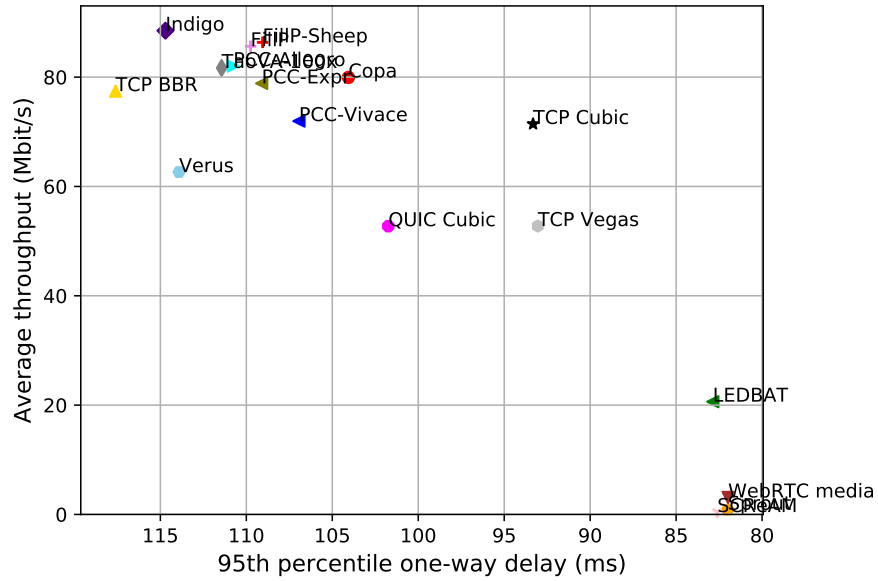
System info:

```
Linux 4.15.0-1017-aws
net.core.default_qdisc = fq_codel
net.core.rmem_default = 16777216
net.core.rmem_max = 33554432
net.core.wmem_default = 212992
net.core.wmem_max = 212992
net.ipv4.tcp_rmem = 4096 87380 6291456
net.ipv4.tcp_wmem = 4096 16384 4194304
```

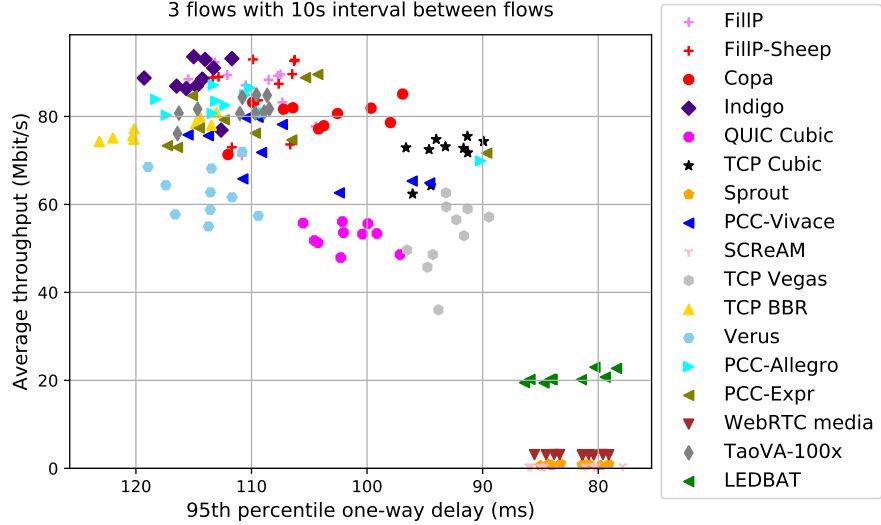
Git summary:

```
branch: master @ 7719b900495aa706f8452ab7d4a94dd562e9296e
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from Colombia to AWS Brazil 2, 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	45.55	34.50	27.28	115.55	117.58	119.35	1.31	2.28	4.08
Copa	10	50.99	30.84	25.73	100.24	104.11	106.00	1.58	1.77	2.75
TCP Cubic	10	43.40	31.27	22.07	93.04	96.36	104.08	0.38	0.65	1.89
FillP	10	53.19	35.59	27.42	106.42	110.51	113.62	4.75	7.06	8.32
FillP-Sheep	10	53.26	36.04	28.00	107.12	109.85	111.62	5.52	6.73	7.21
Indigo	10	55.31	36.56	27.50	113.92	115.75	110.88	4.56	2.83	3.93
LEDBAT	10	13.52	8.62	4.27	83.10	82.32	82.79	1.03	1.59	3.25
PCC-Allegro	10	53.40	30.45	25.79	107.39	111.81	113.58	6.21	4.16	6.15
PCC-Expr	10	50.99	29.96	24.43	107.37	109.59	110.03	2.25	2.18	2.73
QUIC Cubic	10	29.85	23.14	23.01	97.92	102.26	109.55	0.60	1.08	2.59
SCReAM	10	0.22	0.22	0.22	81.66	82.16	81.51	0.51	0.82	1.48
Sprout	10	0.41	0.37	0.60	81.28	81.29	81.94	0.24	0.87	0.91
TaoVA-100x	10	48.55	35.56	28.85	109.10	111.42	113.93	0.47	0.99	2.29
TCP Vegas	10	31.66	23.19	17.34	90.72	94.69	105.89	0.45	0.83	1.85
Verus	10	37.30	27.82	20.89	111.54	114.20	117.39	1.92	2.56	3.32
PCC-Vivace	10	49.18	26.49	15.92	104.25	105.42	104.82	4.61	4.08	3.91
WebRTC media	10	1.75	0.99	0.39	81.42	81.22	81.66	0.33	0.73	1.88

Run 1: Statistics of TCP BBR

Start at: 2018-08-22 19:17:20

End at: 2018-08-22 19:17:50

Local clock offset: -4.964 ms

Remote clock offset: 3.706 ms

Below is generated by plot.py at 2018-08-22 22:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 121.996 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 118.629 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 33.33 Mbit/s

95th percentile per-packet one-way delay: 122.855 ms

Loss rate: 2.28%

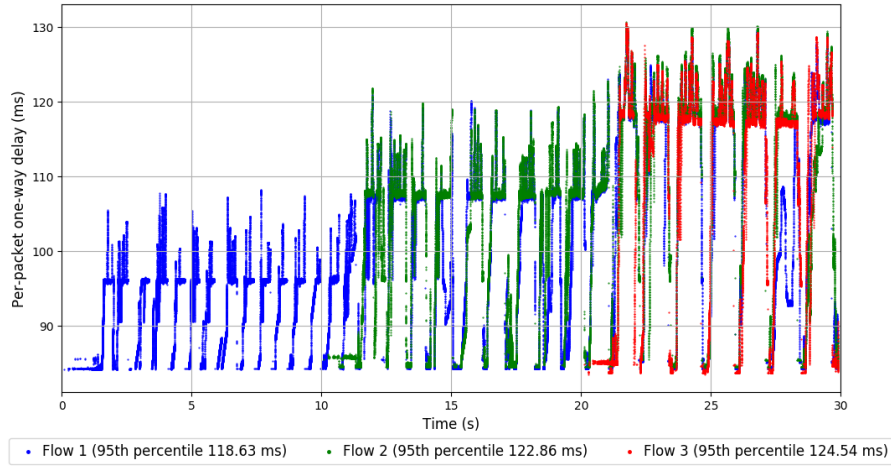
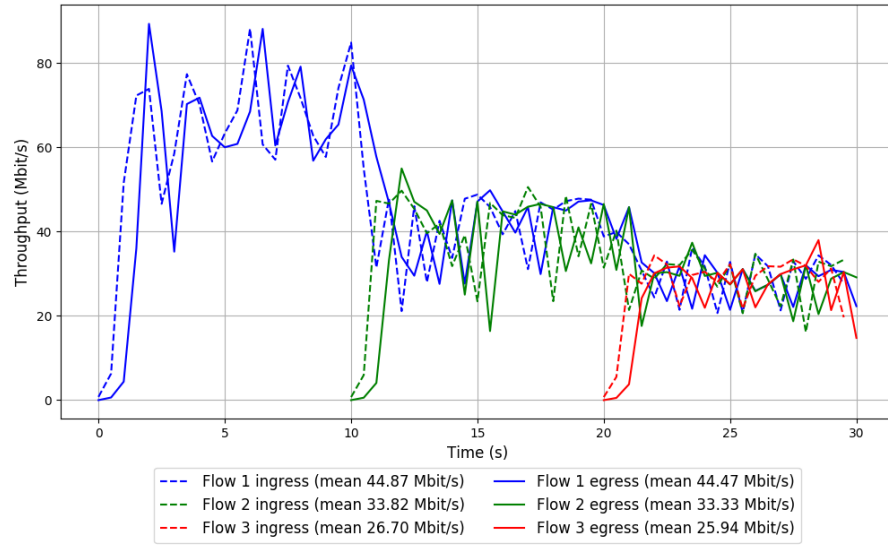
-- Flow 3:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: 124.543 ms

Loss rate: 4.44%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-22 19:38:28

End at: 2018-08-22 19:38:58

Local clock offset: -4.898 ms

Remote clock offset: 4.559 ms

Below is generated by plot.py at 2018-08-22 22:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 120.274 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 43.90 Mbit/s

95th percentile per-packet one-way delay: 116.387 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 118.631 ms

Loss rate: 2.52%

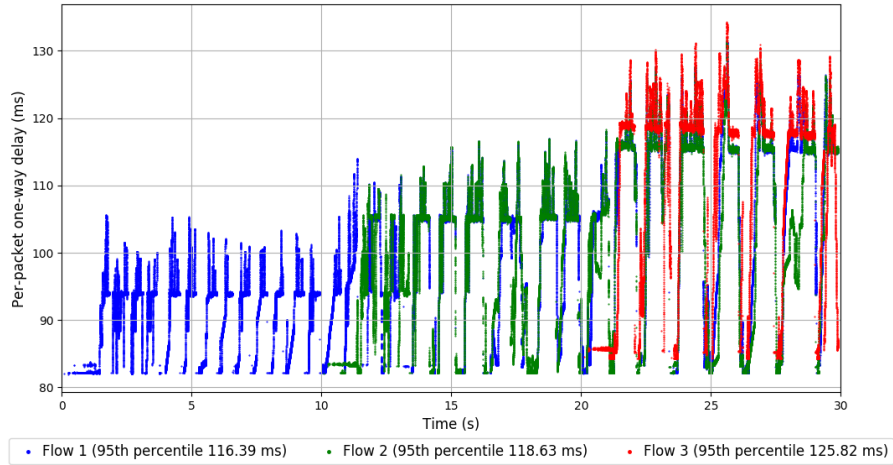
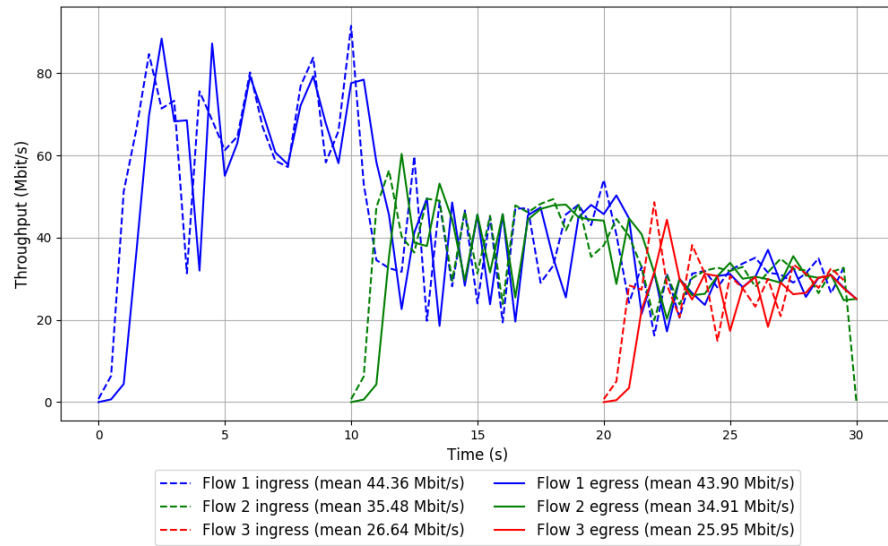
-- Flow 3:

Average throughput: 25.95 Mbit/s

95th percentile per-packet one-way delay: 125.820 ms

Loss rate: 4.17%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-22 19:59:46

End at: 2018-08-22 20:00:16

Local clock offset: -8.054 ms

Remote clock offset: 1.795 ms

Below is generated by plot.py at 2018-08-22 22:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 123.158 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 120.913 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 122.228 ms

Loss rate: 2.20%

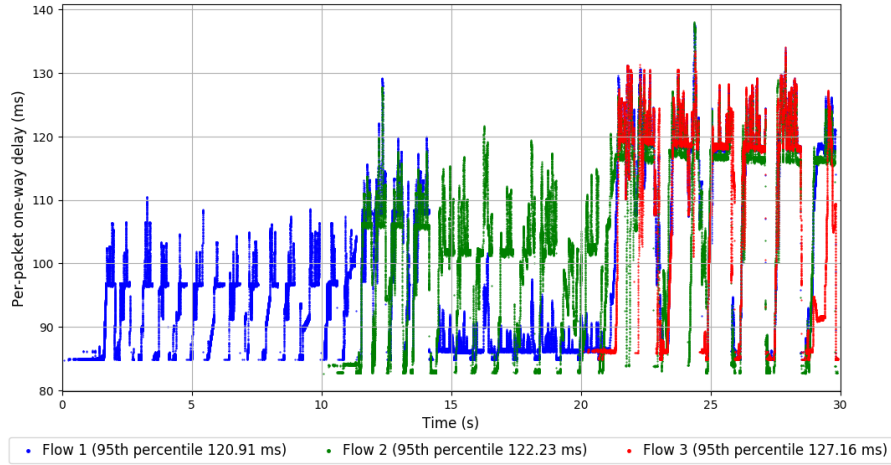
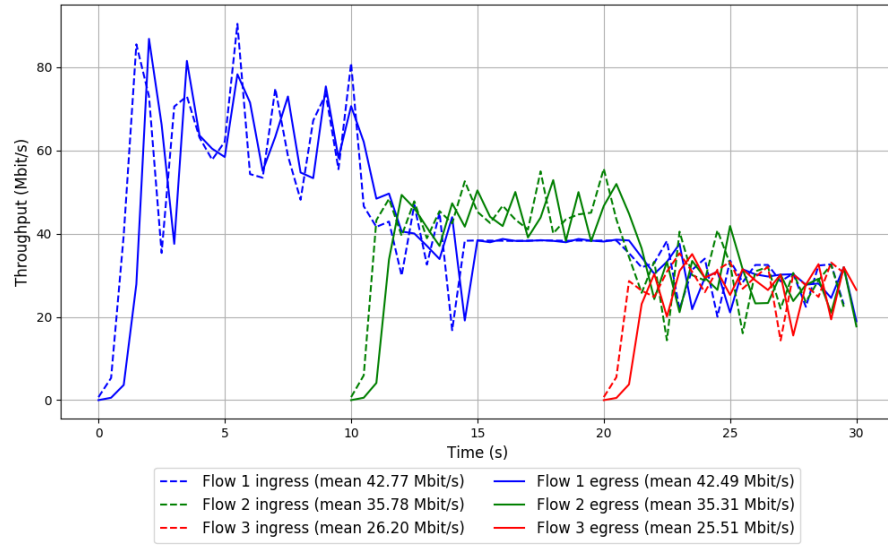
-- Flow 3:

Average throughput: 25.51 Mbit/s

95th percentile per-packet one-way delay: 127.157 ms

Loss rate: 4.28%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-22 20:20:50

End at: 2018-08-22 20:21:20

Local clock offset: -8.654 ms

Remote clock offset: 8.36 ms

Below is generated by plot.py at 2018-08-22 22:34:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.00 Mbit/s

95th percentile per-packet one-way delay: 113.471 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 46.78 Mbit/s

95th percentile per-packet one-way delay: 113.029 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 33.34 Mbit/s

95th percentile per-packet one-way delay: 113.927 ms

Loss rate: 2.22%

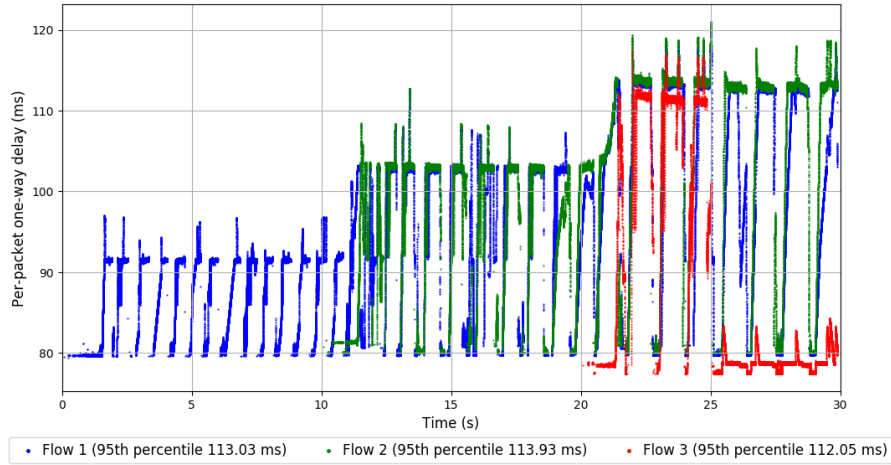
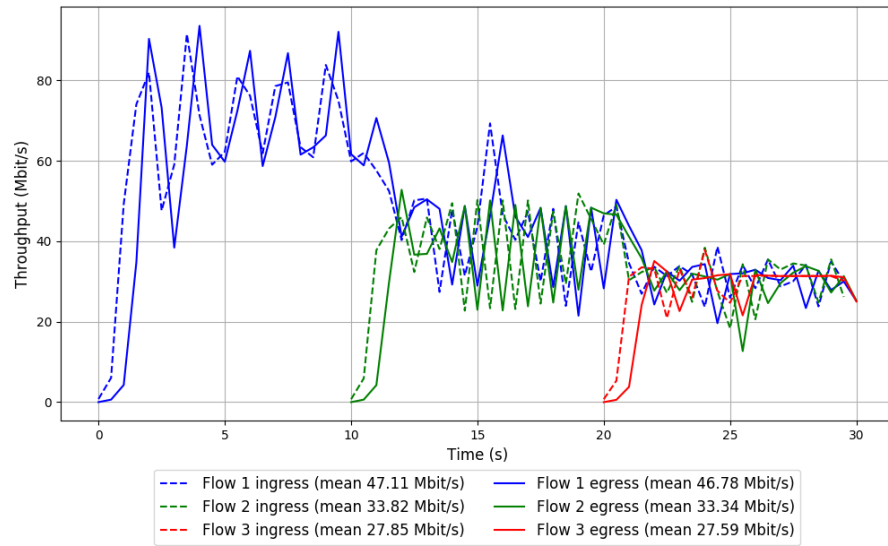
-- Flow 3:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 112.050 ms

Loss rate: 2.56%

Run 4: Report of TCP BBR — Data Link

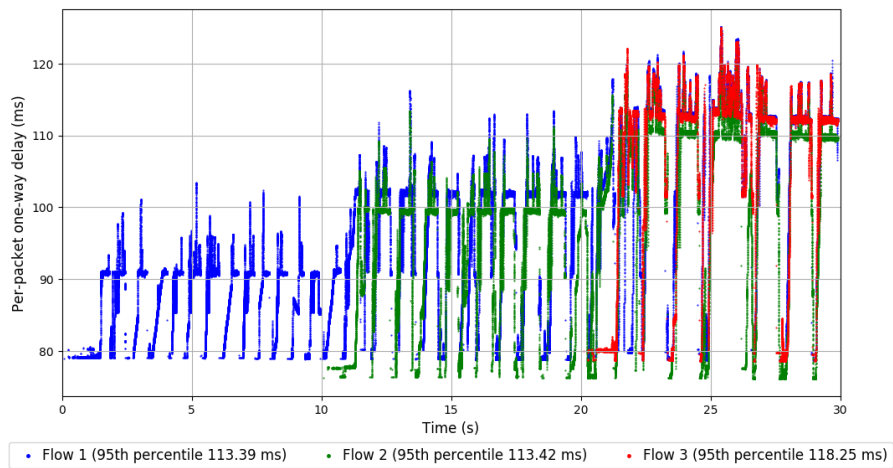
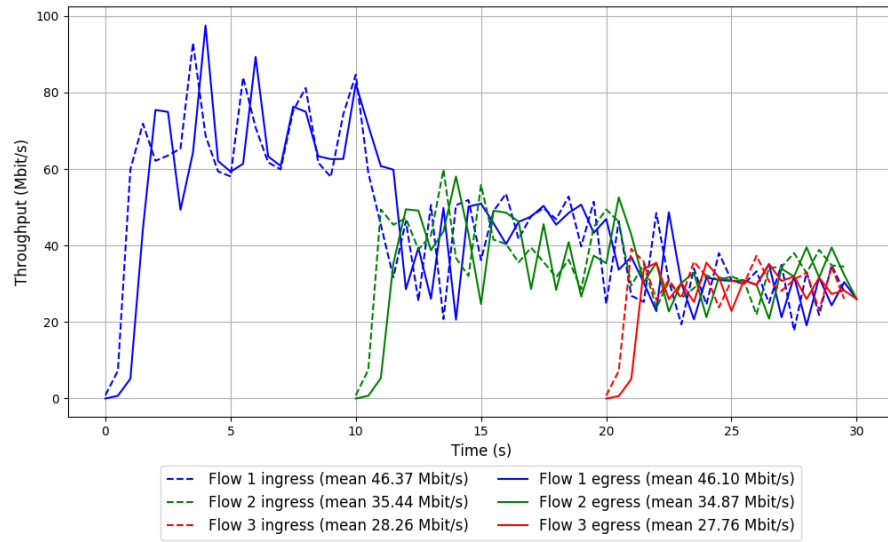


Run 5: Statistics of TCP BBR

Start at: 2018-08-22 20:41:51
End at: 2018-08-22 20:42:21
Local clock offset: -10.065 ms
Remote clock offset: 8.778 ms

Below is generated by plot.py at 2018-08-22 22:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.39 Mbit/s
95th percentile per-packet one-way delay: 114.839 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 46.10 Mbit/s
95th percentile per-packet one-way delay: 113.391 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 113.421 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 27.76 Mbit/s
95th percentile per-packet one-way delay: 118.247 ms
Loss rate: 3.19%

Run 5: Report of TCP BBR — Data Link

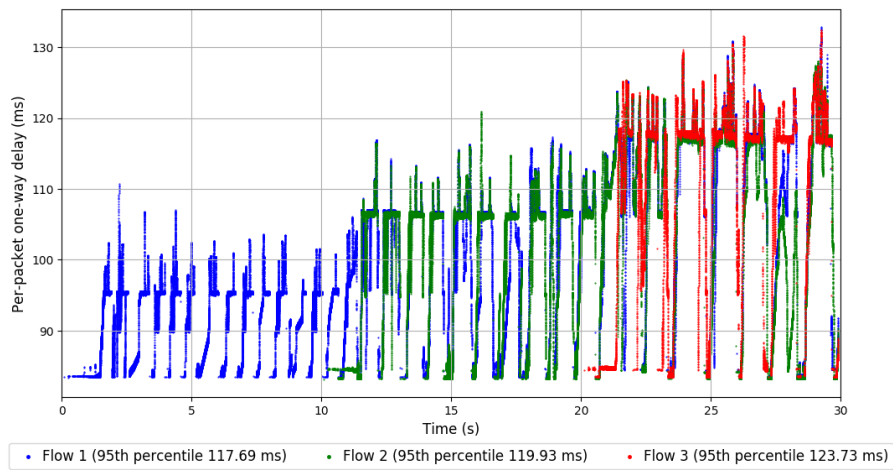
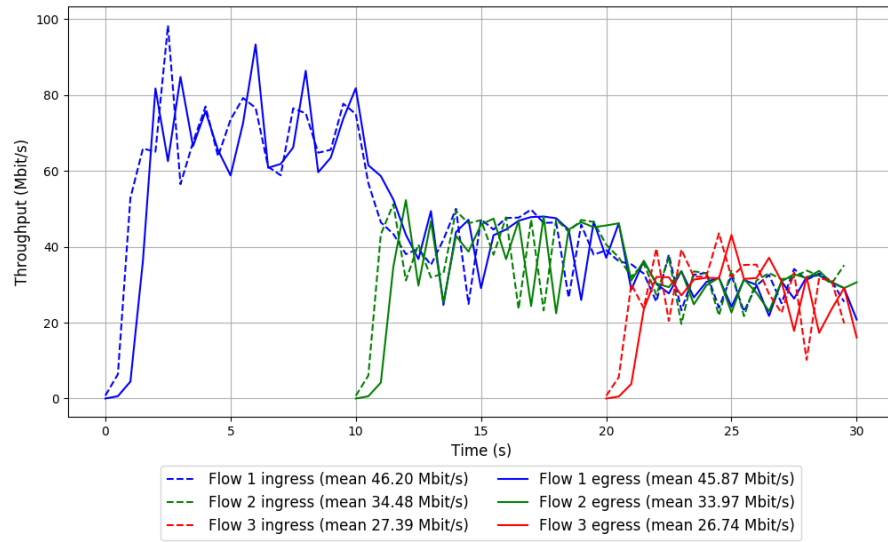


Run 6: Statistics of TCP BBR

Start at: 2018-08-22 21:03:00
End at: 2018-08-22 21:03:30
Local clock offset: -9.339 ms
Remote clock offset: -5.071 ms

Below is generated by plot.py at 2018-08-22 22:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.22 Mbit/s
95th percentile per-packet one-way delay: 120.149 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 45.87 Mbit/s
95th percentile per-packet one-way delay: 117.688 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 119.929 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 123.732 ms
Loss rate: 3.99%

Run 6: Report of TCP BBR — Data Link

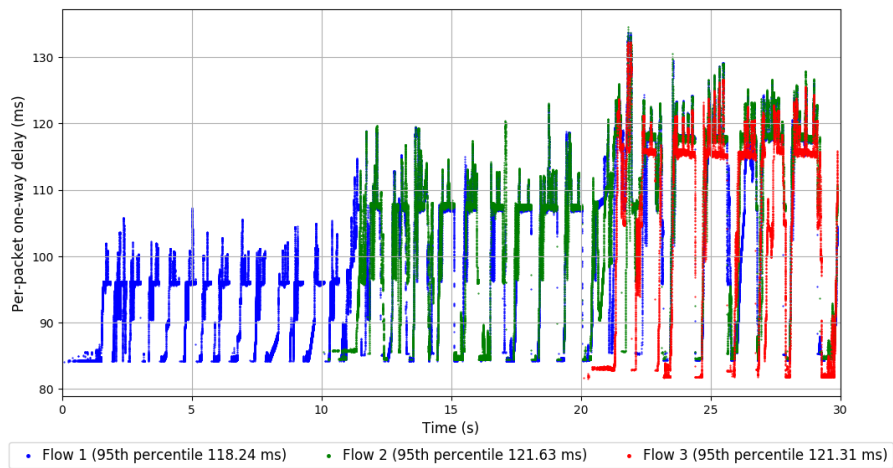
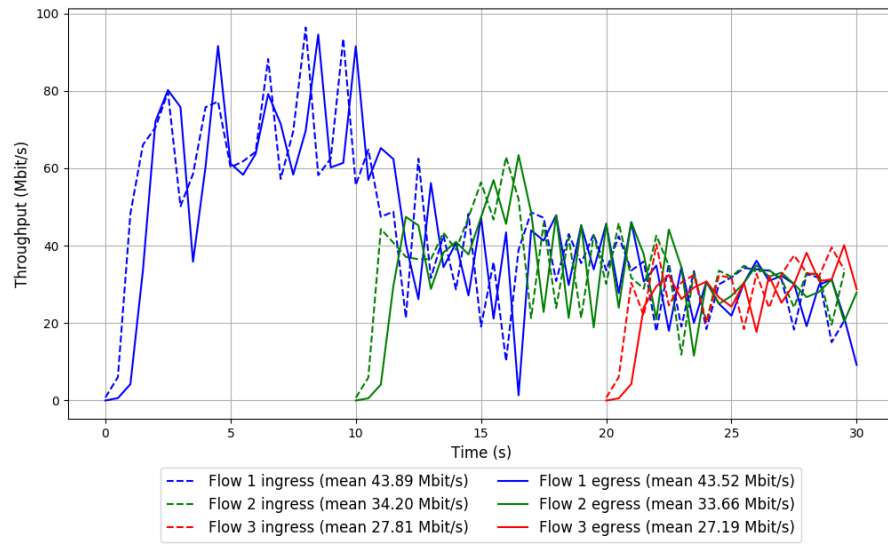


Run 7: Statistics of TCP BBR

Start at: 2018-08-22 21:24:13
End at: 2018-08-22 21:24:43
Local clock offset: -5.772 ms
Remote clock offset: -1.826 ms

Below is generated by plot.py at 2018-08-22 22:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 120.163 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 43.52 Mbit/s
95th percentile per-packet one-way delay: 118.239 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 33.66 Mbit/s
95th percentile per-packet one-way delay: 121.626 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 27.19 Mbit/s
95th percentile per-packet one-way delay: 121.314 ms
Loss rate: 3.99%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-22 21:45:19

End at: 2018-08-22 21:45:49

Local clock offset: -4.395 ms

Remote clock offset: 5.045 ms

Below is generated by plot.py at 2018-08-22 22:34:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.23 Mbit/s

95th percentile per-packet one-way delay: 114.505 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 111.650 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 114.961 ms

Loss rate: 2.11%

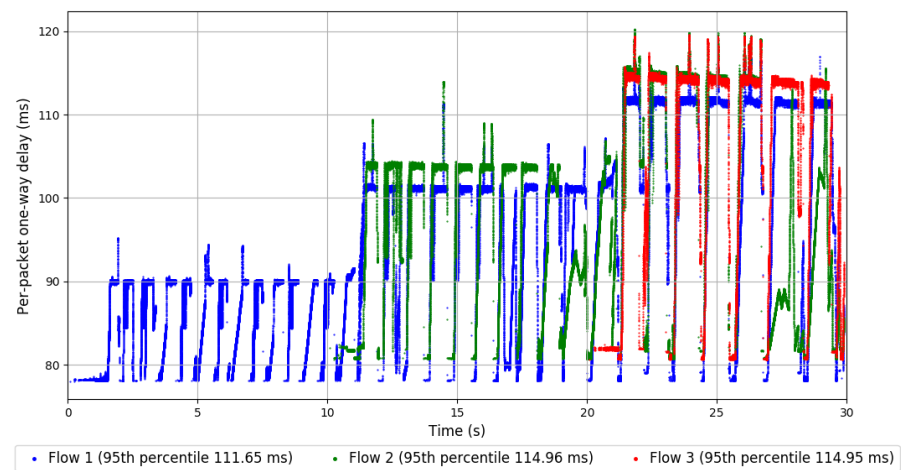
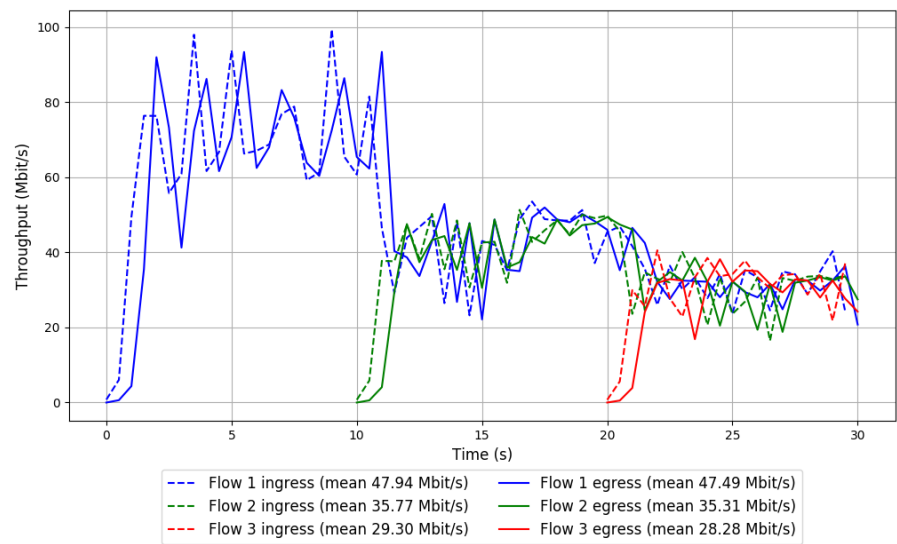
-- Flow 3:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 114.948 ms

Loss rate: 5.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-22 22:06:17

End at: 2018-08-22 22:06:47

Local clock offset: -2.78 ms

Remote clock offset: 0.581 ms

Below is generated by plot.py at 2018-08-22 22:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 114.482 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 46.62 Mbit/s

95th percentile per-packet one-way delay: 114.192 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 35.17 Mbit/s

95th percentile per-packet one-way delay: 114.843 ms

Loss rate: 1.60%

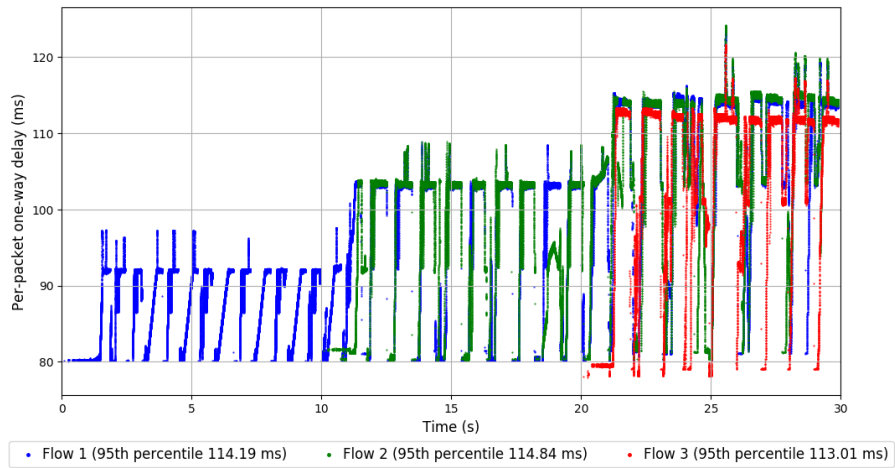
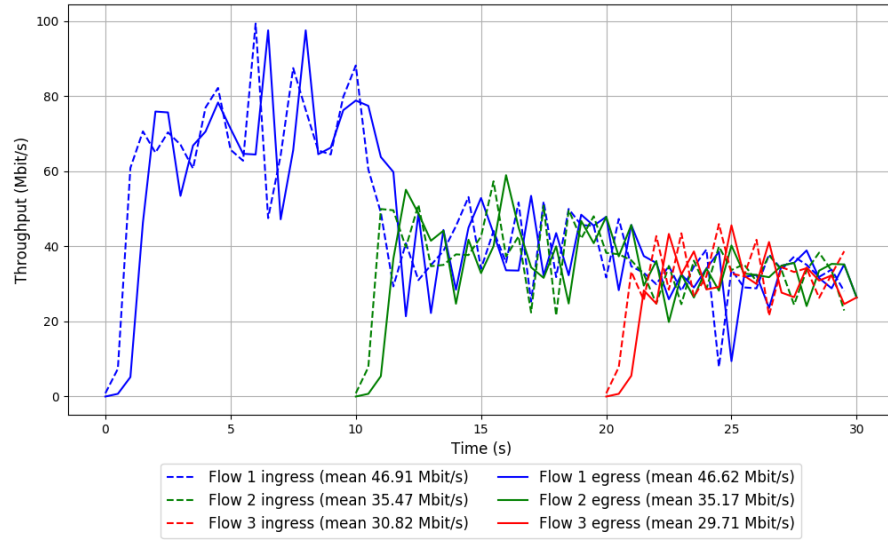
-- Flow 3:

Average throughput: 29.71 Mbit/s

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

Loss rate: 5.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-22 22:27:17

End at: 2018-08-22 22:27:47

Local clock offset: -5.715 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2018-08-22 22:35:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.91 Mbit/s

95th percentile per-packet one-way delay: 113.029 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 111.373 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 113.355 ms

Loss rate: 2.73%

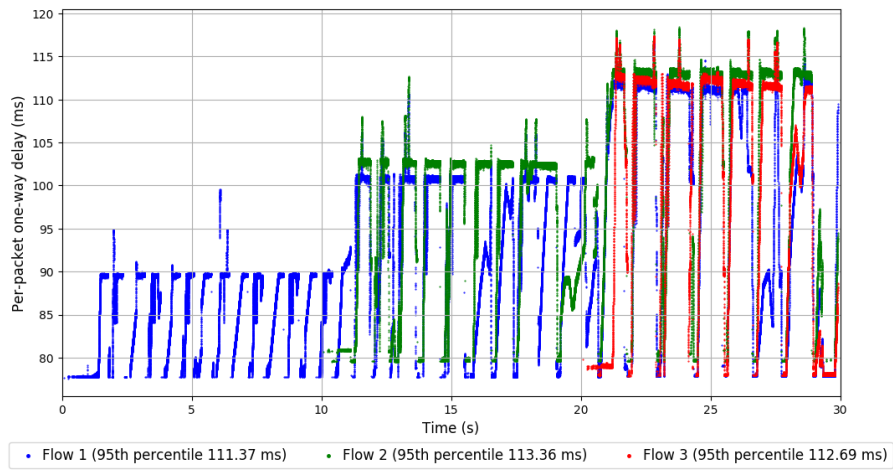
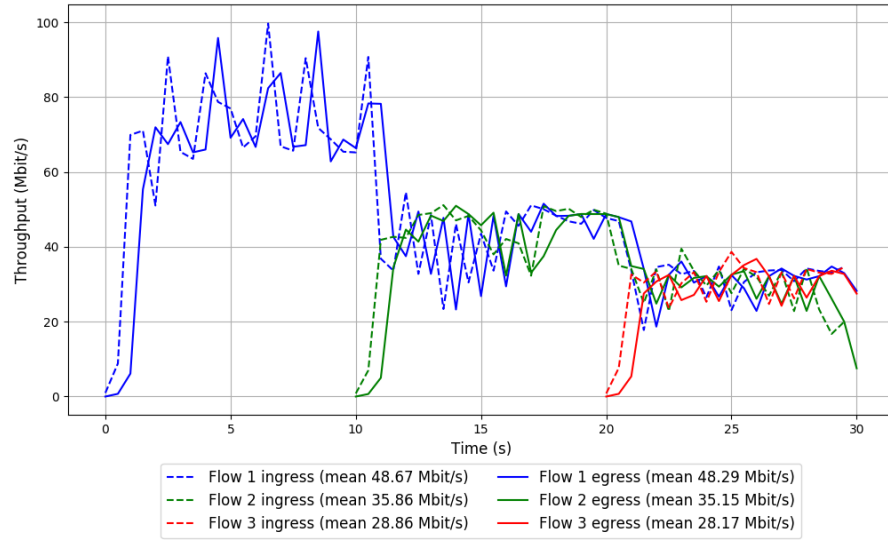
-- Flow 3:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 112.695 ms

Loss rate: 3.91%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-22 19:14:46

End at: 2018-08-22 19:15:16

Local clock offset: -4.19 ms

Remote clock offset: 7.172 ms

Below is generated by plot.py at 2018-08-22 22:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.17 Mbit/s

95th percentile per-packet one-way delay: 104.196 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 48.75 Mbit/s

95th percentile per-packet one-way delay: 104.124 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 105.770 ms

Loss rate: 0.70%

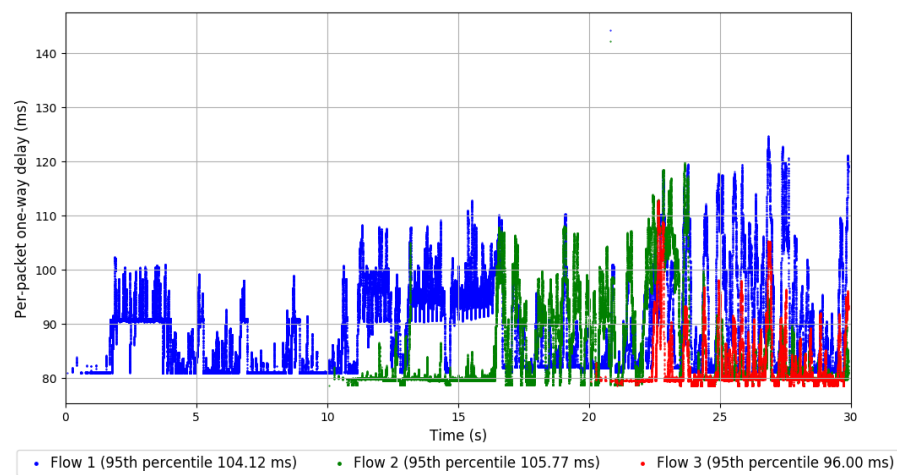
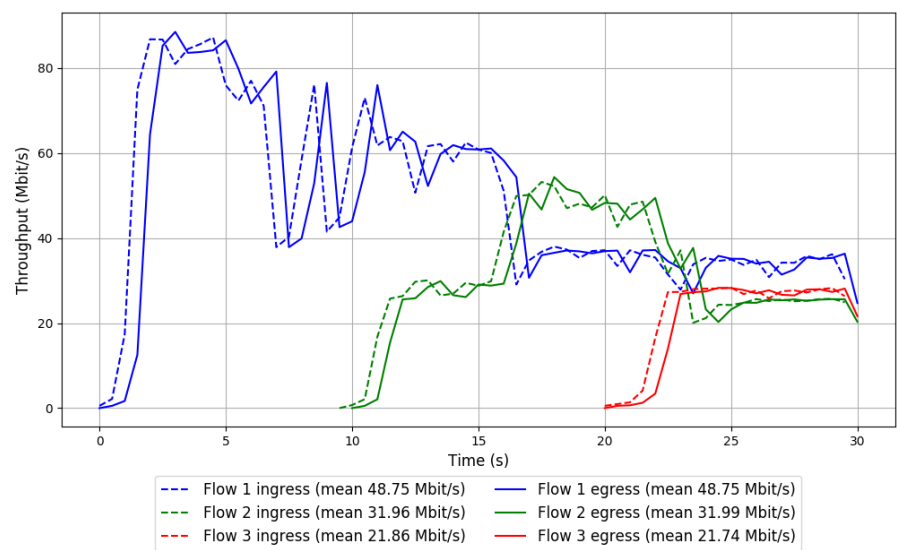
-- Flow 3:

Average throughput: 21.74 Mbit/s

95th percentile per-packet one-way delay: 95.998 ms

Loss rate: 2.15%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-22 19:35:52

End at: 2018-08-22 19:36:22

Local clock offset: -3.592 ms

Remote clock offset: 4.052 ms

Below is generated by plot.py at 2018-08-22 22:36:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.20 Mbit/s

95th percentile per-packet one-way delay: 109.902 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 52.53 Mbit/s

95th percentile per-packet one-way delay: 105.927 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 95.993 ms

Loss rate: 0.80%

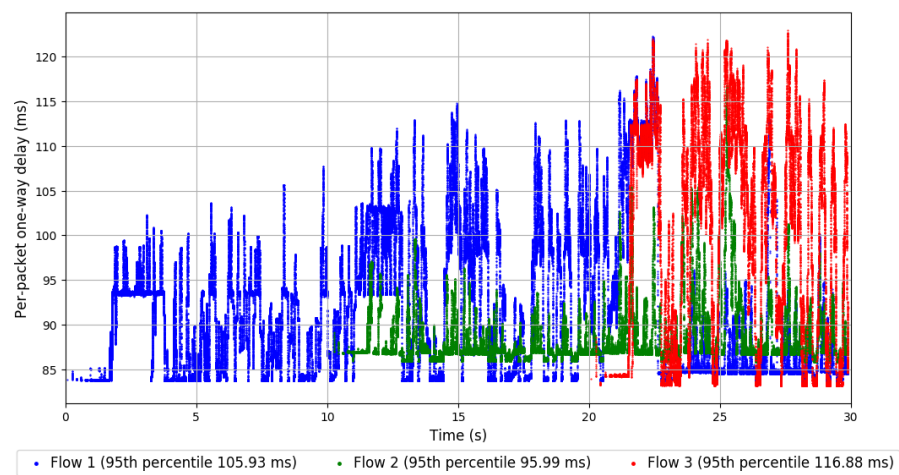
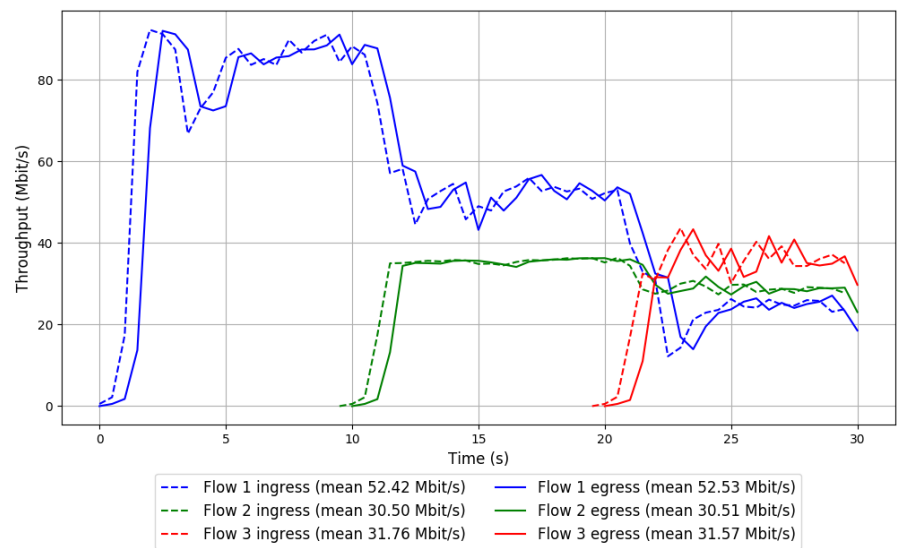
-- Flow 3:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 116.875 ms

Loss rate: 2.20%

Run 2: Report of Copa — Data Link

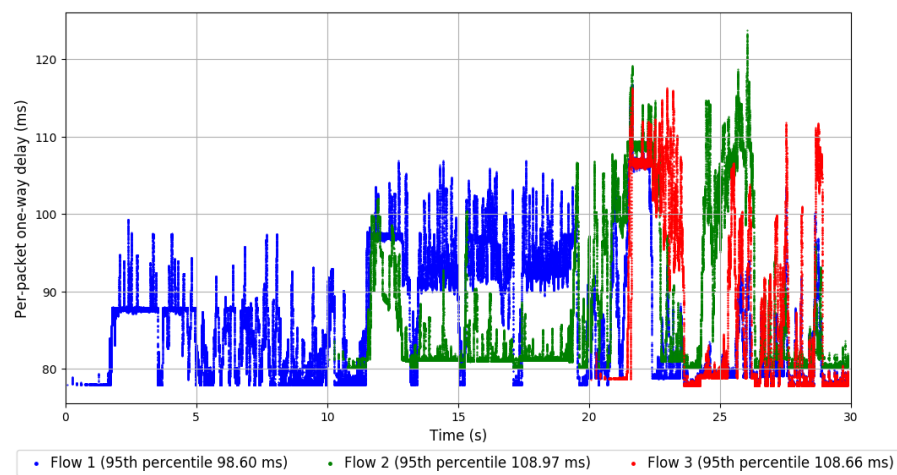
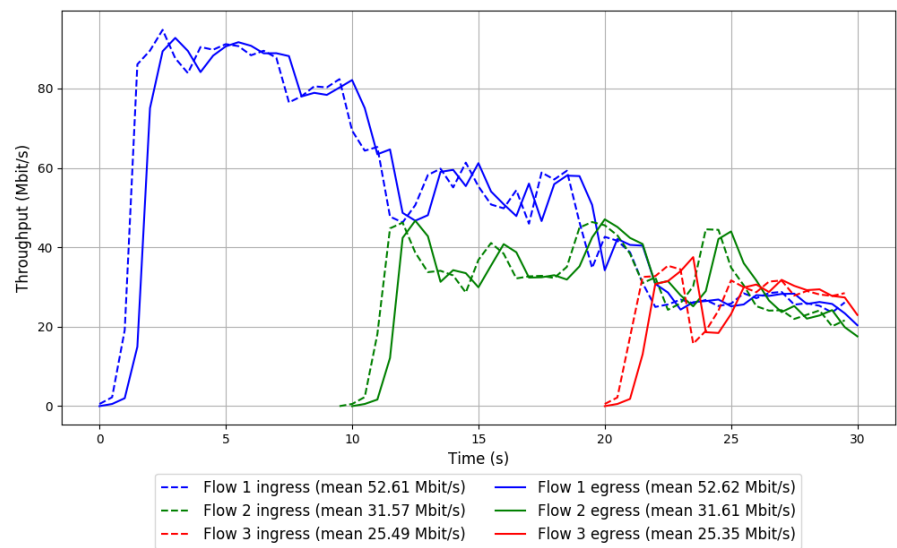


Run 3: Statistics of Copa

Start at: 2018-08-22 19:57:11
End at: 2018-08-22 19:57:41
Local clock offset: -7.844 ms
Remote clock offset: 6.686 ms

Below is generated by plot.py at 2018-08-22 22:36:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 106.423 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 98.598 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 108.969 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 25.35 Mbit/s
95th percentile per-packet one-way delay: 108.658 ms
Loss rate: 2.16%

Run 3: Report of Copa — Data Link

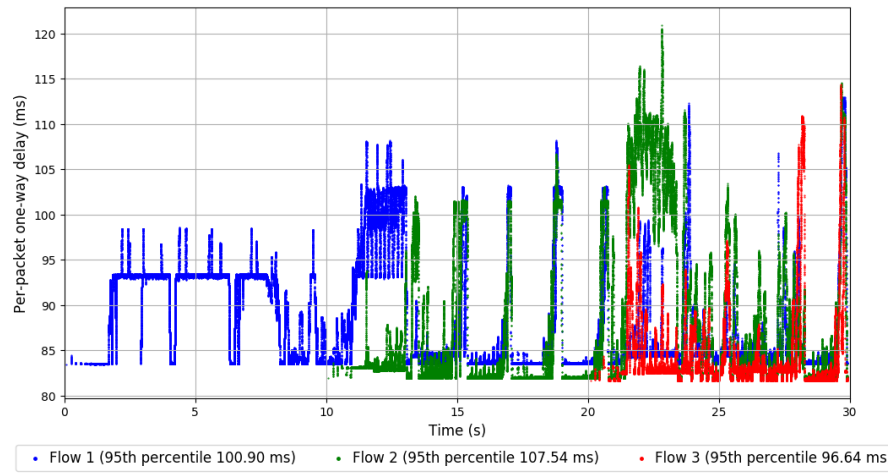
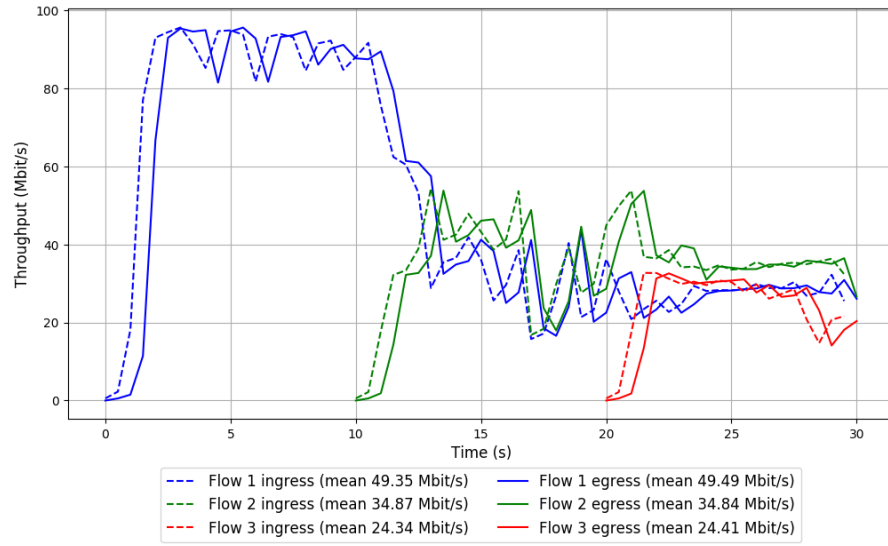


Run 4: Statistics of Copa

Start at: 2018-08-22 20:18:15
End at: 2018-08-22 20:18:45
Local clock offset: -9.265 ms
Remote clock offset: 3.368 ms

```
# Below is generated by plot.py at 2018-08-22 22:36:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 102.558 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 100.904 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 34.84 Mbit/s
95th percentile per-packet one-way delay: 107.539 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 96.641 ms
Loss rate: 1.35%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-22 20:39:17

End at: 2018-08-22 20:39:47

Local clock offset: -9.411 ms

Remote clock offset: 8.537 ms

Below is generated by plot.py at 2018-08-22 22:36:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 99.652 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 100.454 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 98.811 ms

Loss rate: 0.63%

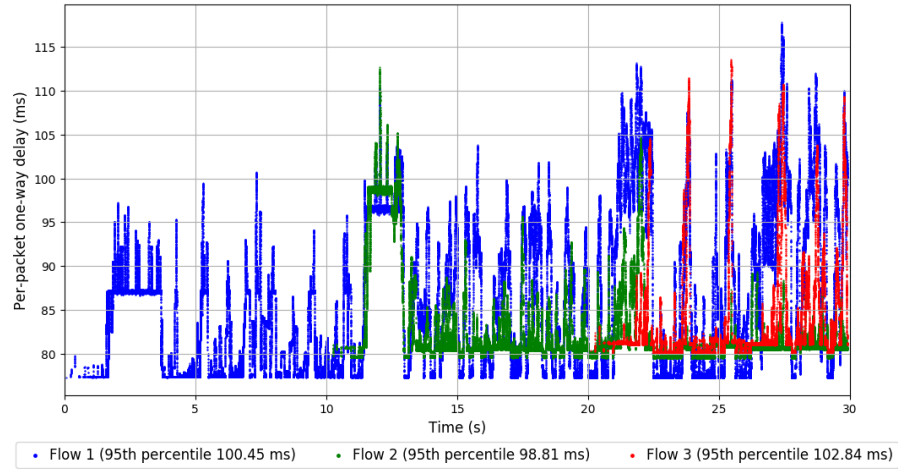
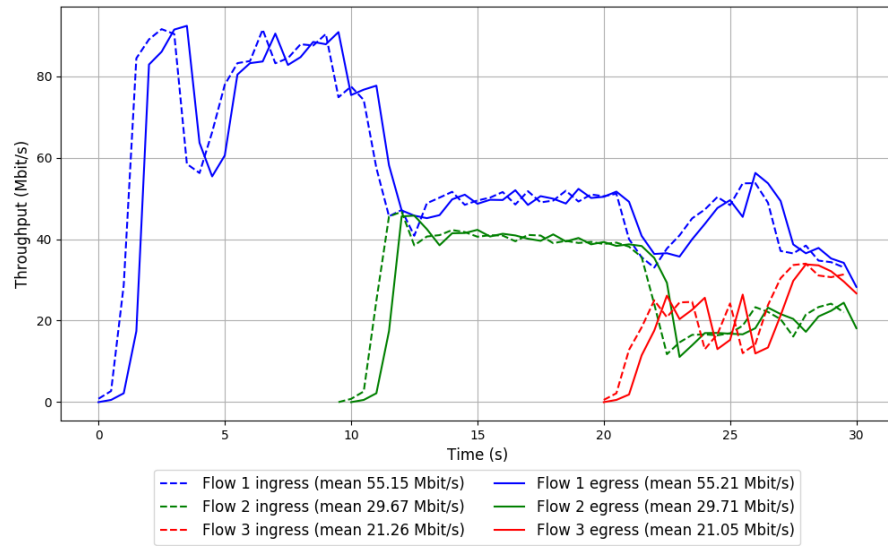
-- Flow 3:

Average throughput: 21.05 Mbit/s

95th percentile per-packet one-way delay: 102.844 ms

Loss rate: 2.54%

Run 5: Report of Copa — Data Link

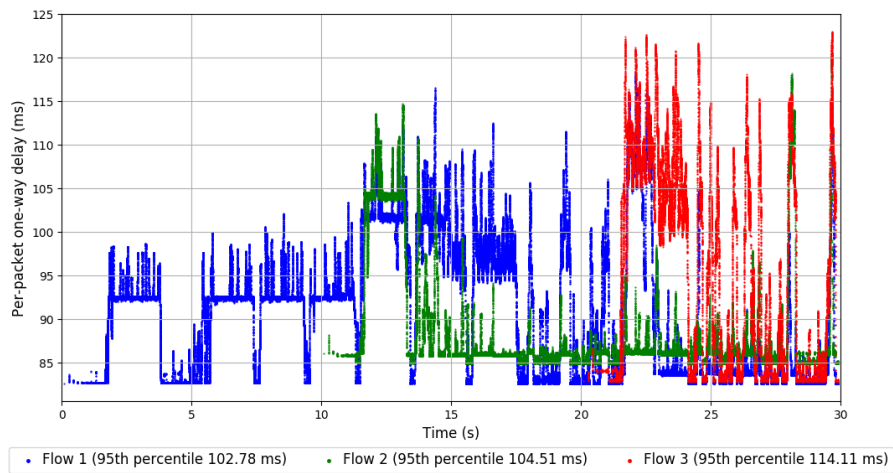
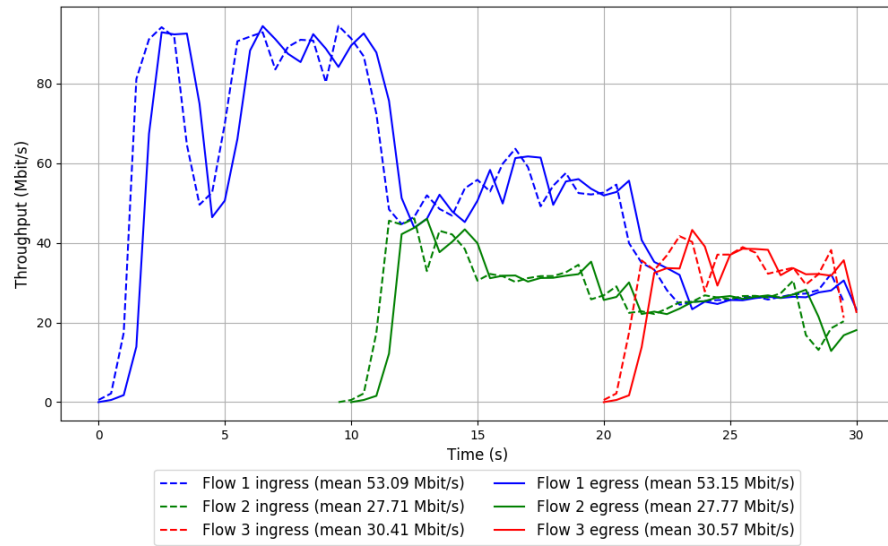


Run 6: Statistics of Copa

Start at: 2018-08-22 21:00:26
End at: 2018-08-22 21:00:56
Local clock offset: -10.1 ms
Remote clock offset: -4.579 ms

```
# Below is generated by plot.py at 2018-08-22 22:36:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.65 Mbit/s
95th percentile per-packet one-way delay: 107.227 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 53.15 Mbit/s
95th percentile per-packet one-way delay: 102.777 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 27.77 Mbit/s
95th percentile per-packet one-way delay: 104.513 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 114.113 ms
Loss rate: 1.11%
```


Run 6: Report of Copa — Data Link

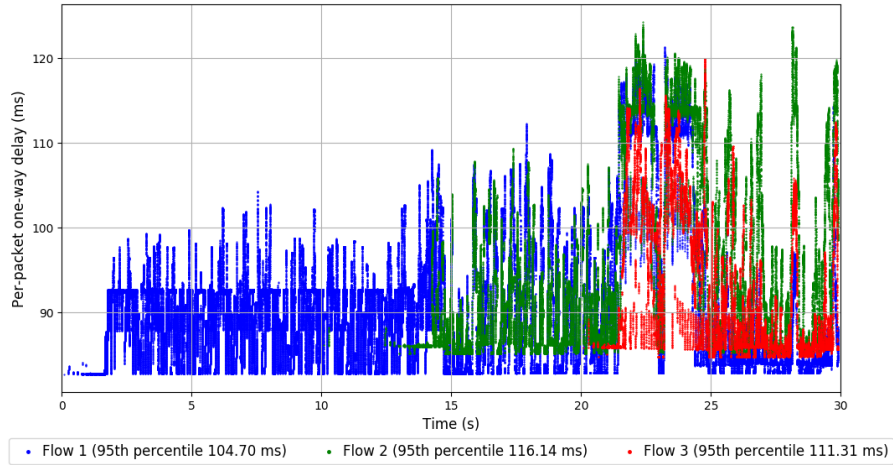
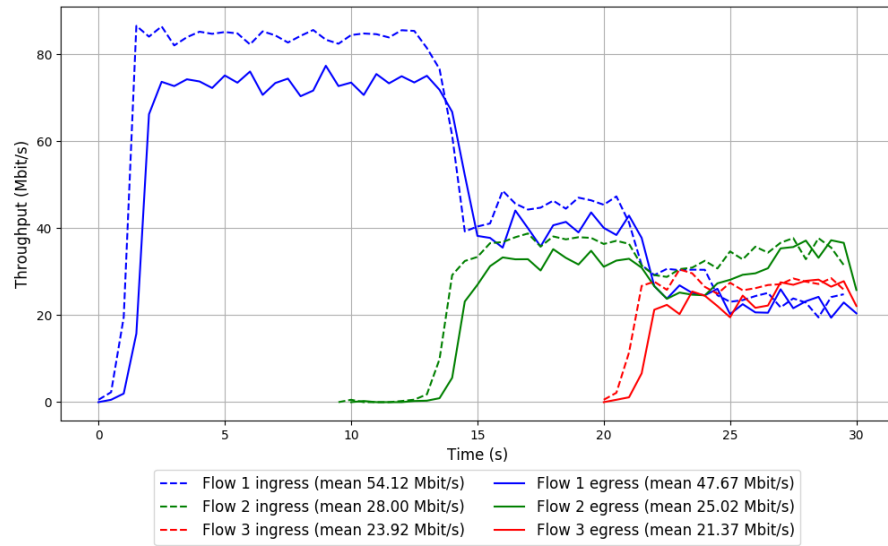


Run 7: Statistics of Copa

Start at: 2018-08-22 21:21:28
End at: 2018-08-22 21:21:58
Local clock offset: -5.42 ms
Remote clock offset: -3.082 ms

Below is generated by plot.py at 2018-08-22 22:36:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.32 Mbit/s
95th percentile per-packet one-way delay: 112.033 ms
Loss rate: 12.13%
-- Flow 1:
Average throughput: 47.67 Mbit/s
95th percentile per-packet one-way delay: 104.701 ms
Loss rate: 12.39%
-- Flow 2:
Average throughput: 25.02 Mbit/s
95th percentile per-packet one-way delay: 116.140 ms
Loss rate: 11.38%
-- Flow 3:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 111.313 ms
Loss rate: 12.14%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-22 21:42:44

End at: 2018-08-22 21:43:14

Local clock offset: -4.49 ms

Remote clock offset: 1.145 ms

Below is generated by plot.py at 2018-08-22 22:36:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.89 Mbit/s

95th percentile per-packet one-way delay: 103.746 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 102.099 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 26.82 Mbit/s

95th percentile per-packet one-way delay: 101.203 ms

Loss rate: 0.62%

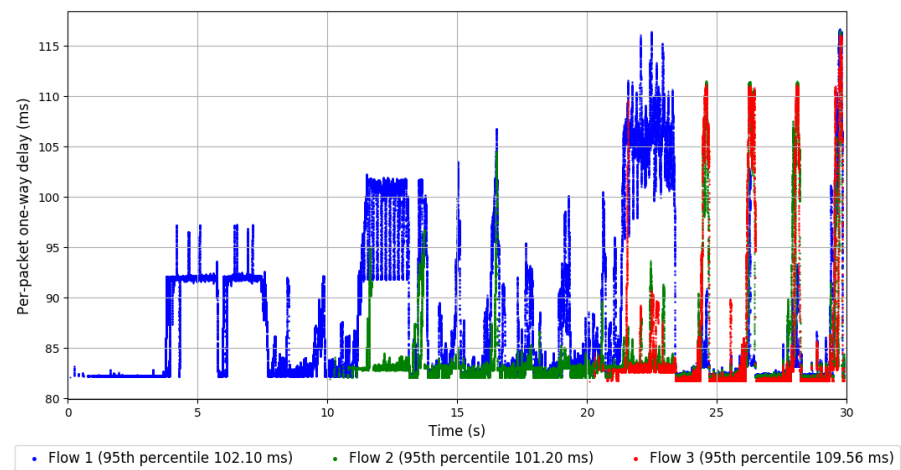
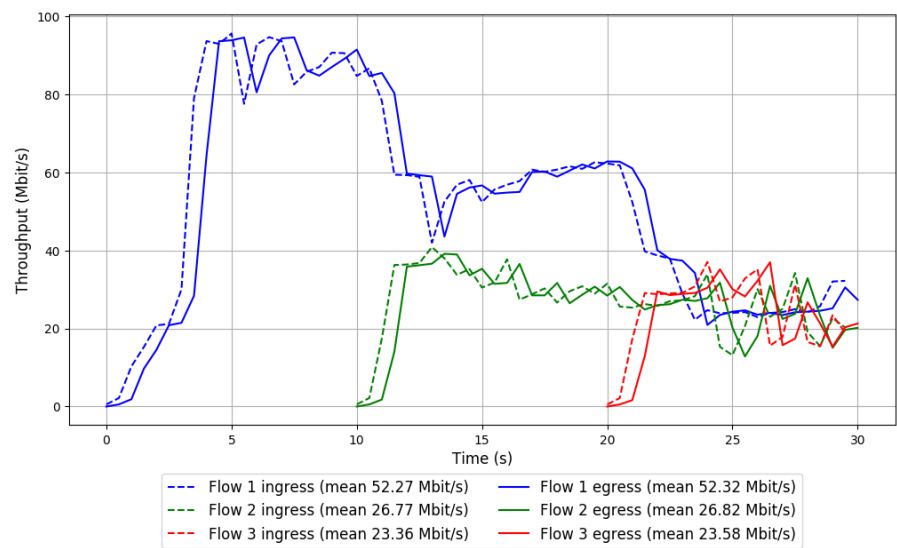
-- Flow 3:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 109.563 ms

Loss rate: 0.74%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-22 22:03:45

End at: 2018-08-22 22:04:15

Local clock offset: -2.899 ms

Remote clock offset: 2.343 ms

Below is generated by plot.py at 2018-08-22 22:37:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 97.978 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 45.54 Mbit/s

95th percentile per-packet one-way delay: 87.148 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 98.179 ms

Loss rate: 0.64%

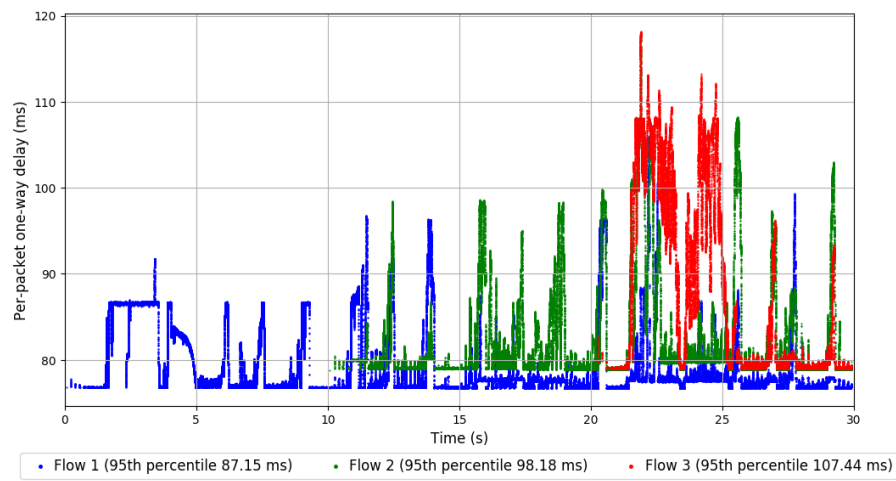
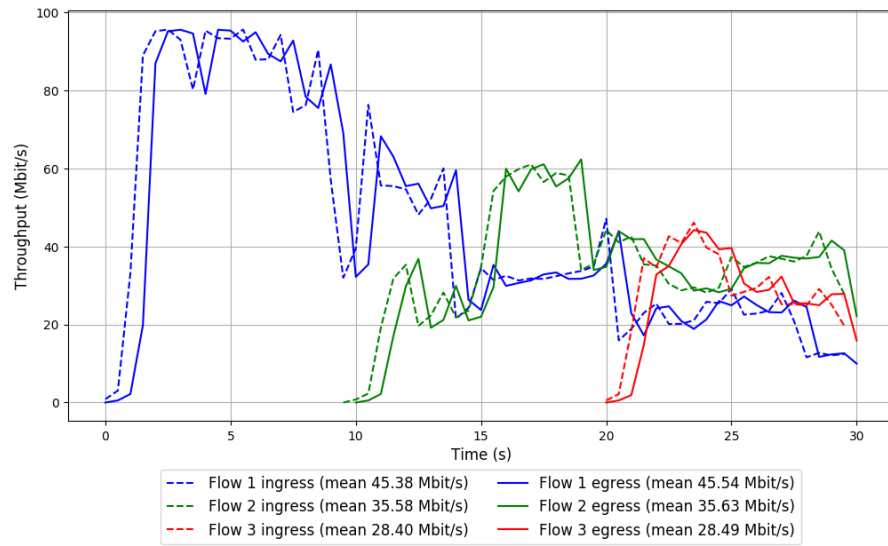
-- Flow 3:

Average throughput: 28.49 Mbit/s

95th percentile per-packet one-way delay: 107.435 ms

Loss rate: 1.24%

Run 9: Report of Copa — Data Link

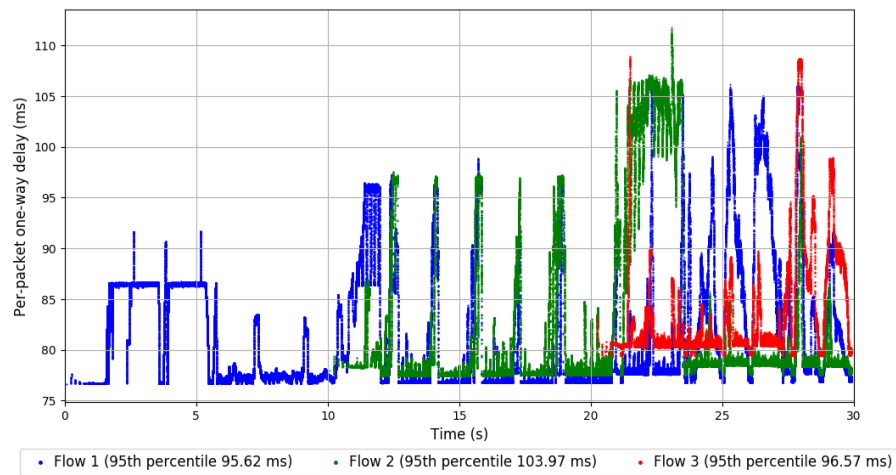
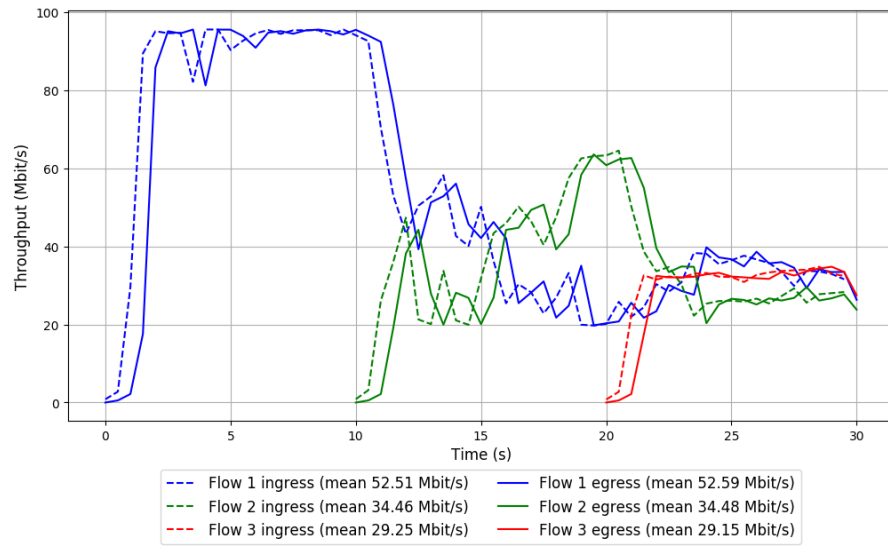


Run 10: Statistics of Copa

Start at: 2018-08-22 22:24:43
End at: 2018-08-22 22:25:13
Local clock offset: -7.155 ms
Remote clock offset: -1.286 ms

Below is generated by plot.py at 2018-08-22 22:37:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.10 Mbit/s
95th percentile per-packet one-way delay: 96.918 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 95.621 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 103.970 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 96.568 ms
Loss rate: 1.88%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-22 19:06:12

End at: 2018-08-22 19:06:42

Local clock offset: -4.207 ms

Remote clock offset: 5.898 ms

Below is generated by plot.py at 2018-08-22 22:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.49 Mbit/s

95th percentile per-packet one-way delay: 91.317 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 47.25 Mbit/s

95th percentile per-packet one-way delay: 91.279 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 95.589 ms

Loss rate: 0.69%

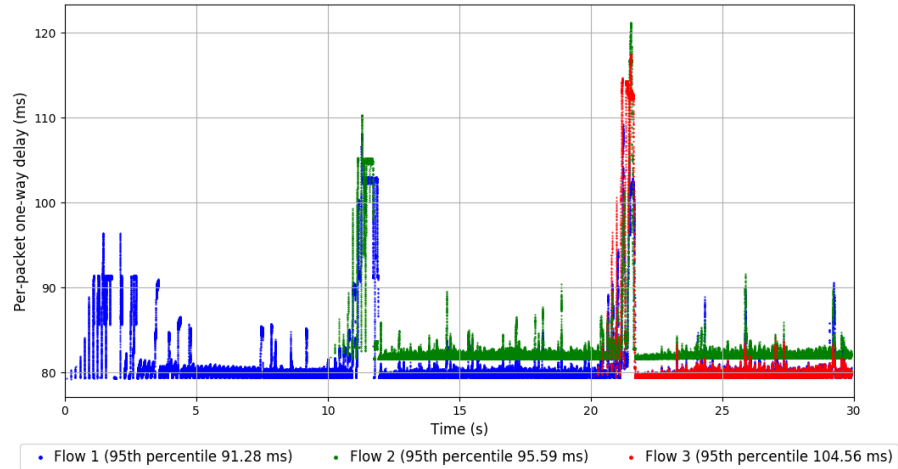
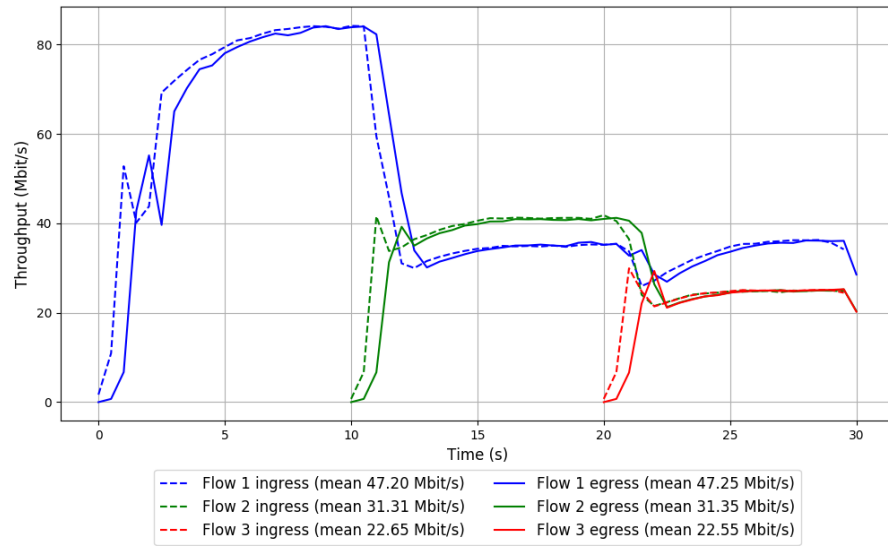
-- Flow 3:

Average throughput: 22.55 Mbit/s

95th percentile per-packet one-way delay: 104.555 ms

Loss rate: 2.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-22 19:27:18

End at: 2018-08-22 19:27:48

Local clock offset: -4.236 ms

Remote clock offset: 4.359 ms

Below is generated by plot.py at 2018-08-22 22:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.90 Mbit/s

95th percentile per-packet one-way delay: 96.631 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 43.50 Mbit/s

95th percentile per-packet one-way delay: 96.532 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 101.711 ms

Loss rate: 0.70%

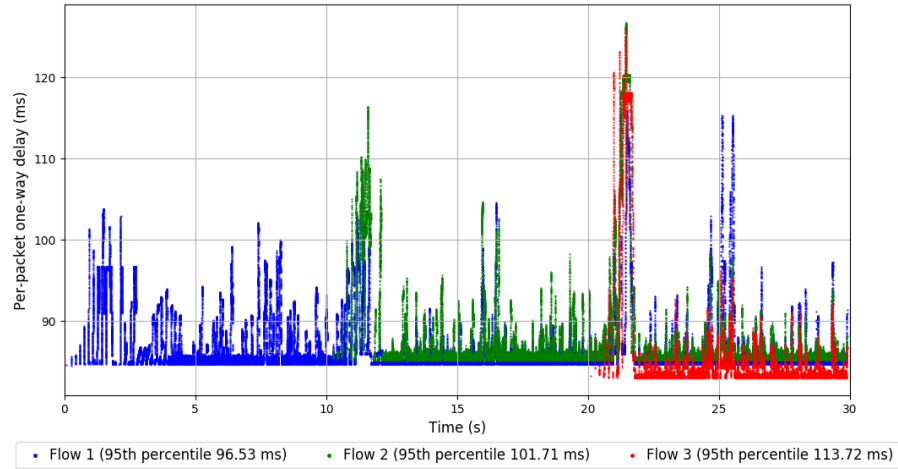
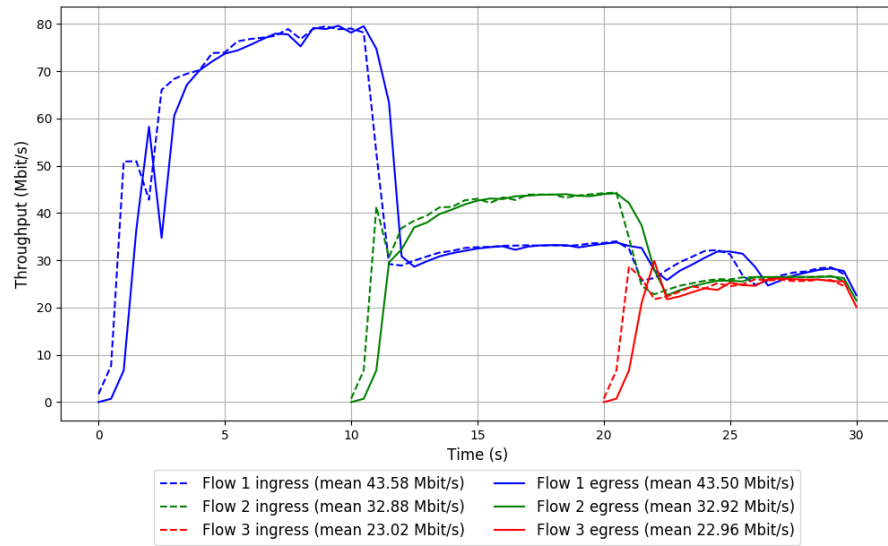
-- Flow 3:

Average throughput: 22.96 Mbit/s

95th percentile per-packet one-way delay: 113.722 ms

Loss rate: 1.88%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-22 19:48:37

End at: 2018-08-22 19:49:07

Local clock offset: -6.965 ms

Remote clock offset: 5.994 ms

Below is generated by plot.py at 2018-08-22 22:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 94.475 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 36.23 Mbit/s

95th percentile per-packet one-way delay: 93.340 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 32.07 Mbit/s

95th percentile per-packet one-way delay: 98.576 ms

Loss rate: 0.76%

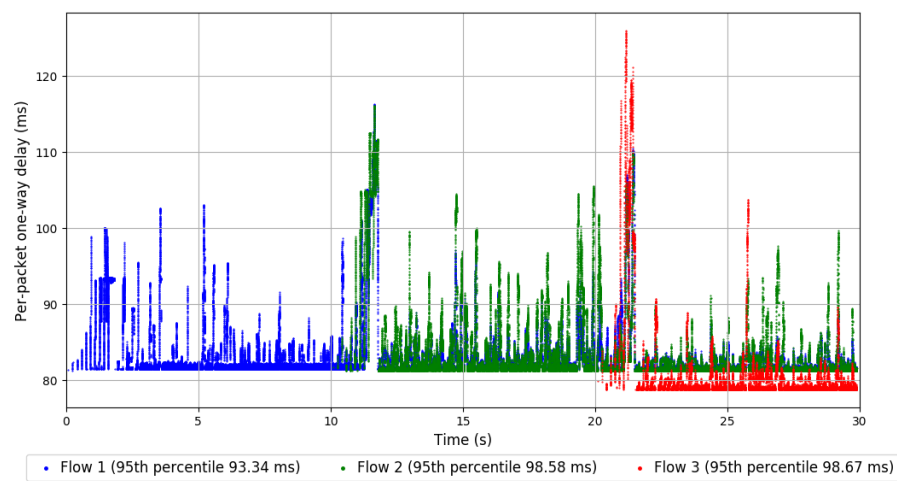
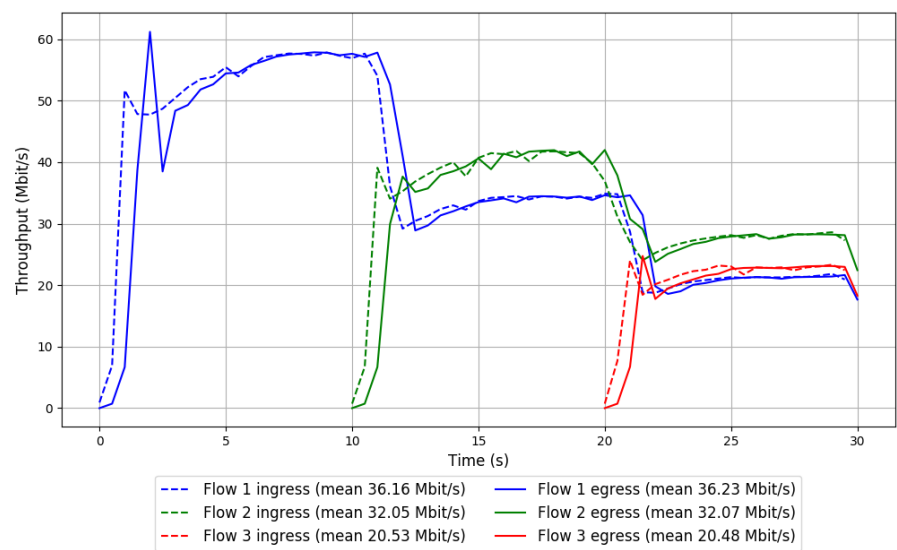
-- Flow 3:

Average throughput: 20.48 Mbit/s

95th percentile per-packet one-way delay: 98.672 ms

Loss rate: 1.90%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-22 20:09:41

End at: 2018-08-22 20:10:11

Local clock offset: -9.562 ms

Remote clock offset: 1.871 ms

Below is generated by plot.py at 2018-08-22 22:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.38 Mbit/s

95th percentile per-packet one-way delay: 96.058 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 95.989 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 96.547 ms

Loss rate: 0.64%

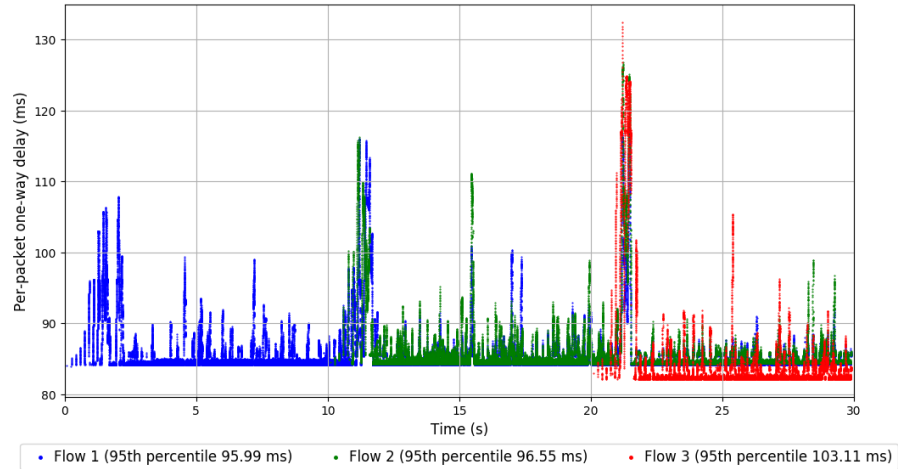
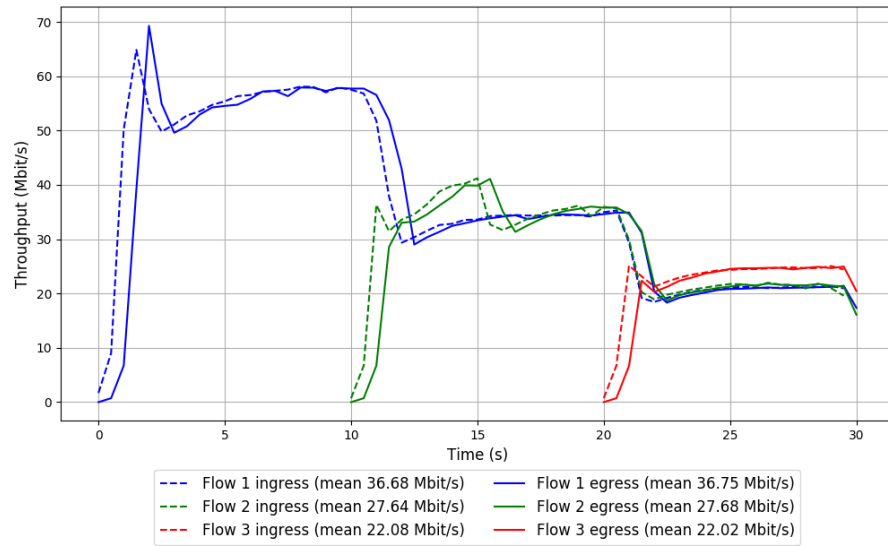
-- Flow 3:

Average throughput: 22.02 Mbit/s

95th percentile per-packet one-way delay: 103.110 ms

Loss rate: 1.89%

Run 4: Report of TCP Cubic — Data Link

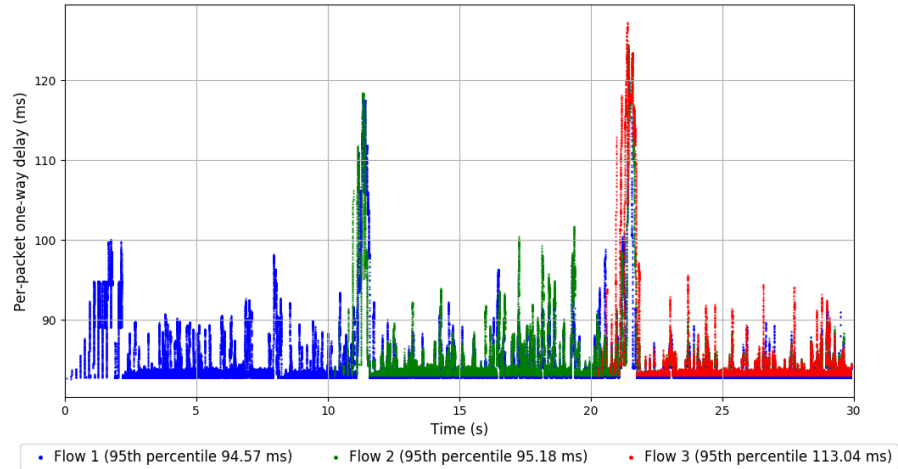
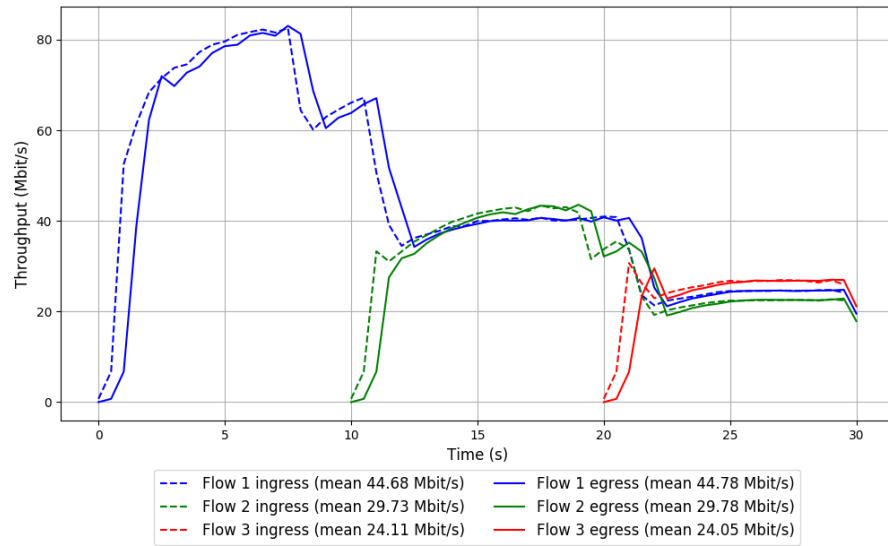


Run 5: Statistics of TCP Cubic

Start at: 2018-08-22 20:30:45
End at: 2018-08-22 20:31:15
Local clock offset: -10.851 ms
Remote clock offset: 3.604 ms

Below is generated by plot.py at 2018-08-22 22:37:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.47 Mbit/s
95th percentile per-packet one-way delay: 94.639 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 44.78 Mbit/s
95th percentile per-packet one-way delay: 94.571 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 95.184 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 24.05 Mbit/s
95th percentile per-packet one-way delay: 113.039 ms
Loss rate: 1.91%

Run 5: Report of TCP Cubic — Data Link

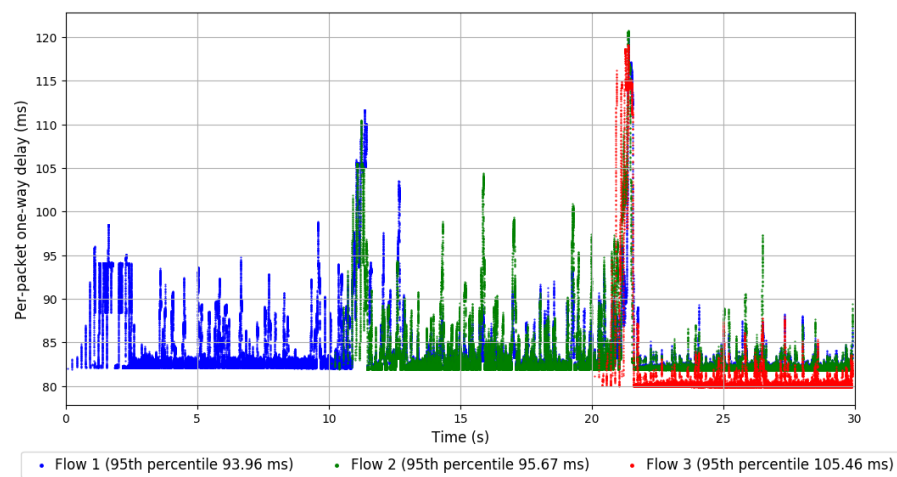
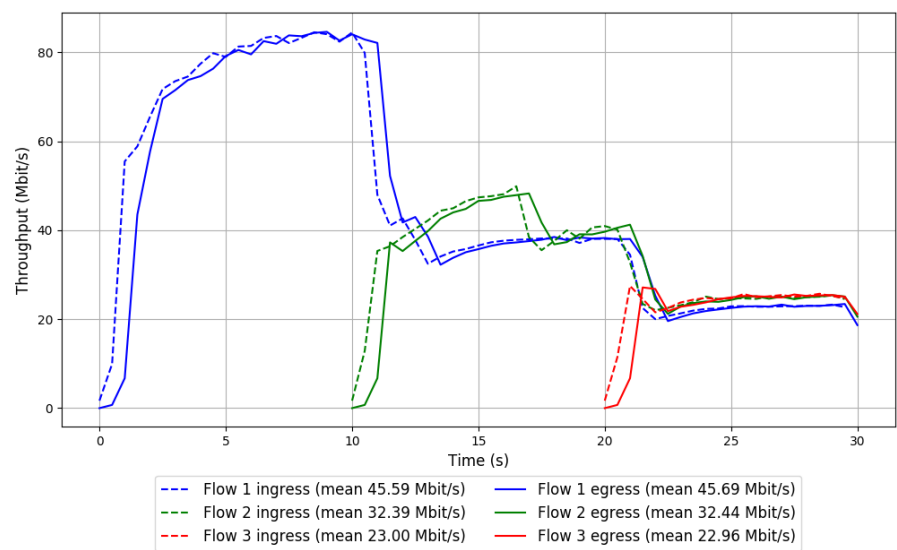


Run 6: Statistics of TCP Cubic

Start at: 2018-08-22 20:51:54
End at: 2018-08-22 20:52:24
Local clock offset: -9.122 ms
Remote clock offset: 1.31 ms

Below is generated by plot.py at 2018-08-22 22:37:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.79 Mbit/s
95th percentile per-packet one-way delay: 94.017 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 45.69 Mbit/s
95th percentile per-packet one-way delay: 93.960 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 95.674 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 105.461 ms
Loss rate: 1.74%

Run 6: Report of TCP Cubic — Data Link

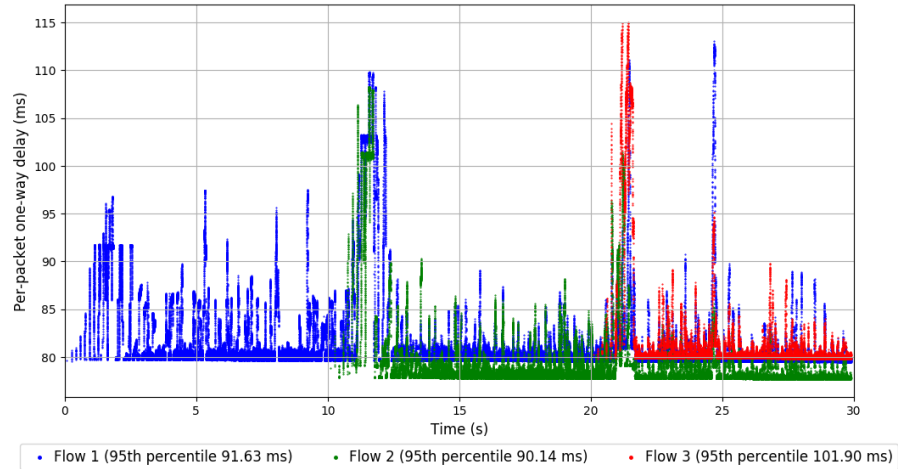
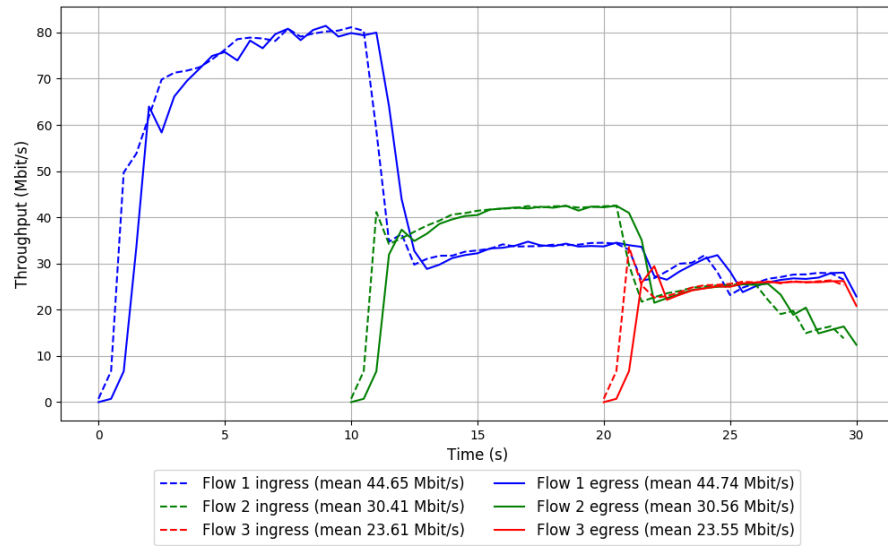


Run 7: Statistics of TCP Cubic

Start at: 2018-08-22 21:12:55
End at: 2018-08-22 21:13:25
Local clock offset: -7.411 ms
Remote clock offset: -1.719 ms

Below is generated by plot.py at 2018-08-22 22:37:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 91.655 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 44.74 Mbit/s
95th percentile per-packet one-way delay: 91.634 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 90.145 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 23.55 Mbit/s
95th percentile per-packet one-way delay: 101.903 ms
Loss rate: 1.88%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-22 21:34:09

End at: 2018-08-22 21:34:39

Local clock offset: -4.878 ms

Remote clock offset: 4.278 ms

Below is generated by plot.py at 2018-08-22 22:37:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 93.219 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 92.370 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 30.57 Mbit/s

95th percentile per-packet one-way delay: 98.876 ms

Loss rate: 0.70%

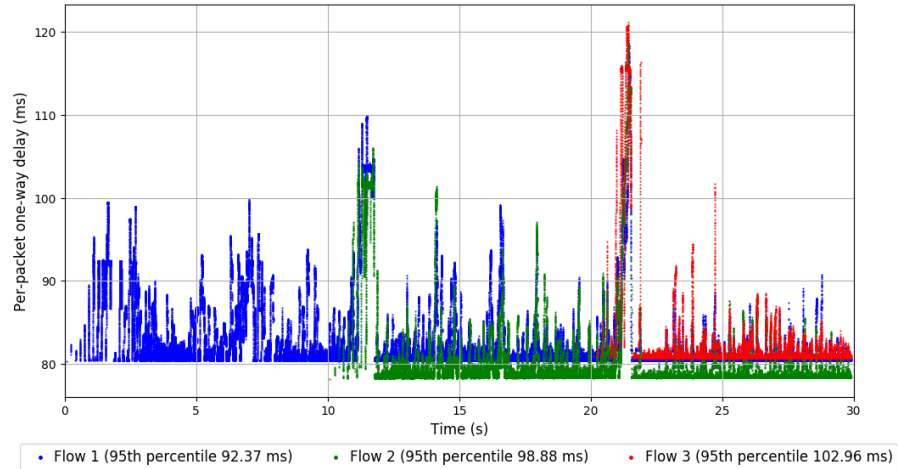
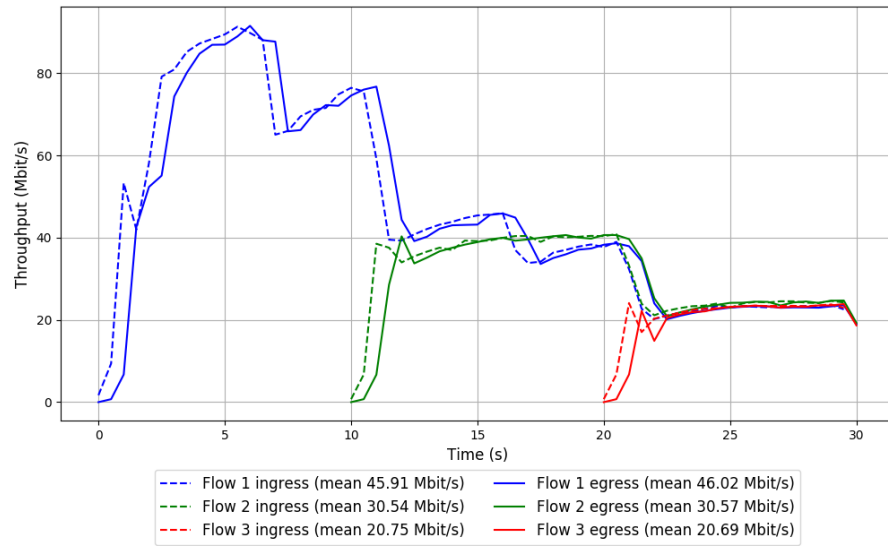
-- Flow 3:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 102.956 ms

Loss rate: 1.95%

Run 8: Report of TCP Cubic — Data Link

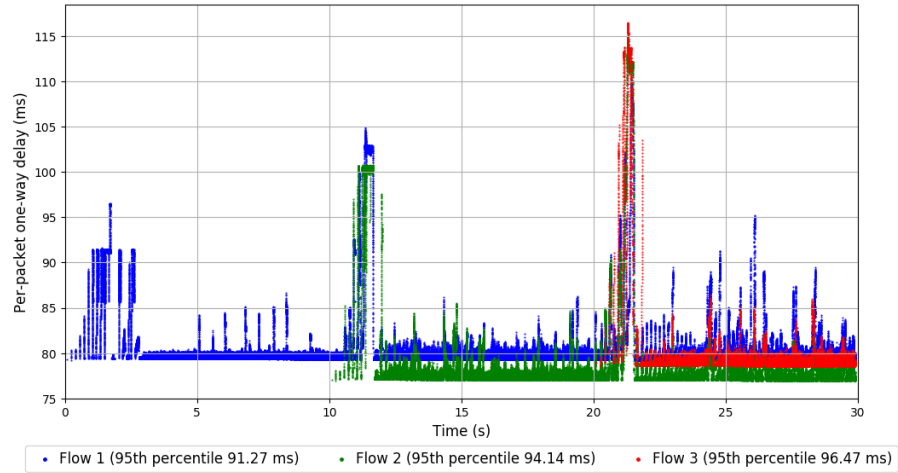
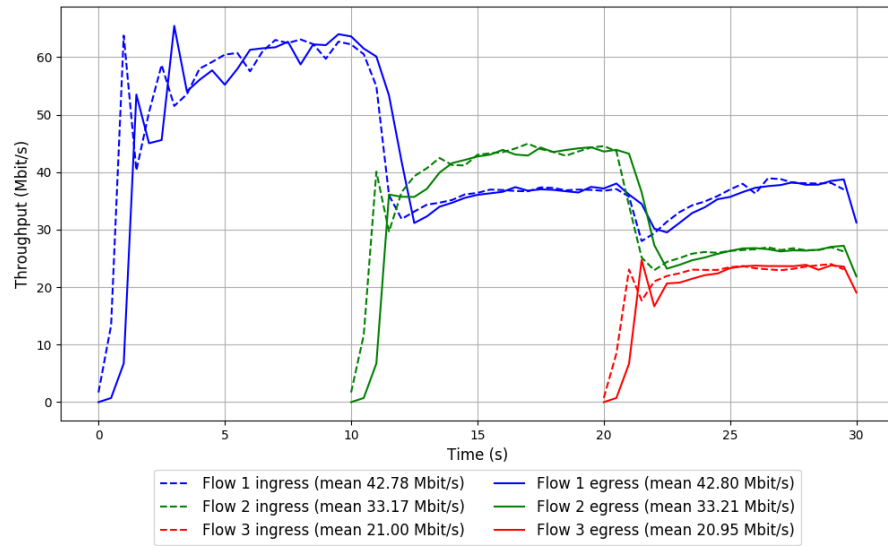


Run 9: Statistics of TCP Cubic

Start at: 2018-08-22 21:55:14
End at: 2018-08-22 21:55:44
Local clock offset: -4.078 ms
Remote clock offset: 3.664 ms

Below is generated by plot.py at 2018-08-22 22:37:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.76 Mbit/s
95th percentile per-packet one-way delay: 91.288 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 42.80 Mbit/s
95th percentile per-packet one-way delay: 91.266 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 33.21 Mbit/s
95th percentile per-packet one-way delay: 94.142 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 96.474 ms
Loss rate: 1.76%

Run 9: Report of TCP Cubic — Data Link

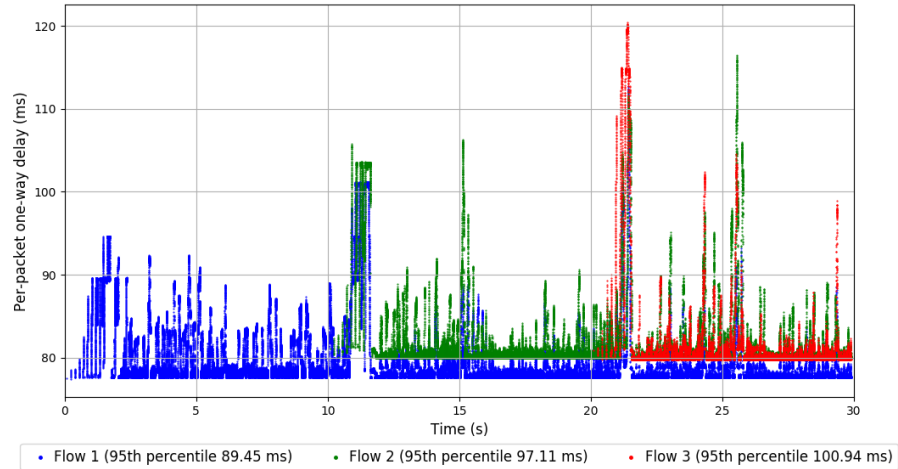
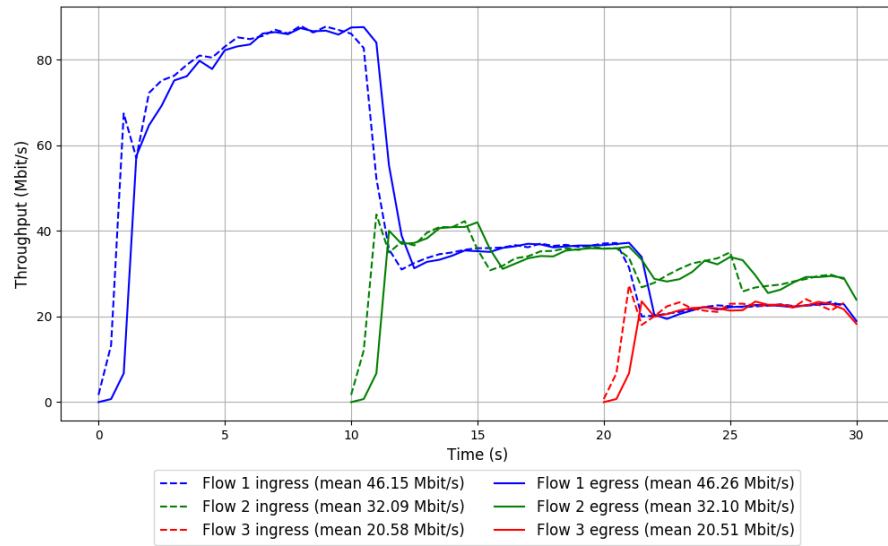


Run 10: Statistics of TCP Cubic

Start at: 2018-08-22 22:16:12
End at: 2018-08-22 22:16:42
Local clock offset: -5.426 ms
Remote clock offset: -0.482 ms

Below is generated by plot.py at 2018-08-22 22:37:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.32 Mbit/s
95th percentile per-packet one-way delay: 89.915 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 46.26 Mbit/s
95th percentile per-packet one-way delay: 89.453 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 97.109 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 20.51 Mbit/s
95th percentile per-packet one-way delay: 100.943 ms
Loss rate: 1.95%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-22 19:11:02

End at: 2018-08-22 19:11:32

Local clock offset: -4.95 ms

Remote clock offset: 7.949 ms

Below is generated by plot.py at 2018-08-22 22:38:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 110.497 ms

Loss rate: 3.59%

-- Flow 1:

Average throughput: 53.95 Mbit/s

95th percentile per-packet one-way delay: 108.259 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 111.308 ms

Loss rate: 4.83%

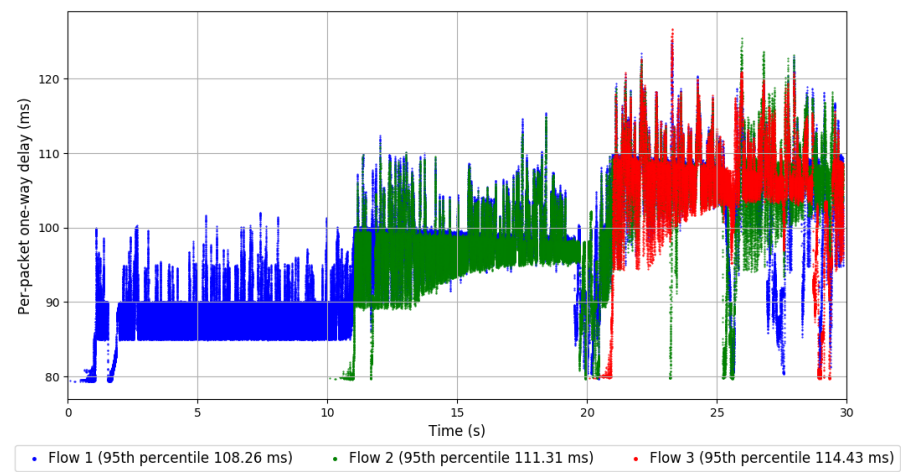
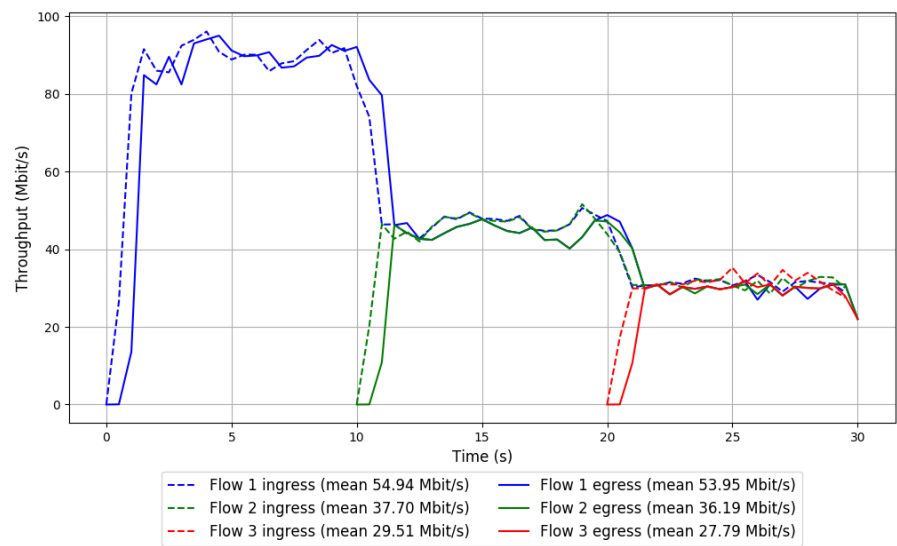
-- Flow 3:

Average throughput: 27.79 Mbit/s

95th percentile per-packet one-way delay: 114.429 ms

Loss rate: 7.38%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-22 19:32:07

End at: 2018-08-22 19:32:37

Local clock offset: -4.306 ms

Remote clock offset: 9.496 ms

Below is generated by plot.py at 2018-08-22 22:38:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.34 Mbit/s

95th percentile per-packet one-way delay: 108.514 ms

Loss rate: 3.15%

-- Flow 1:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 106.494 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 36.93 Mbit/s

95th percentile per-packet one-way delay: 109.581 ms

Loss rate: 4.56%

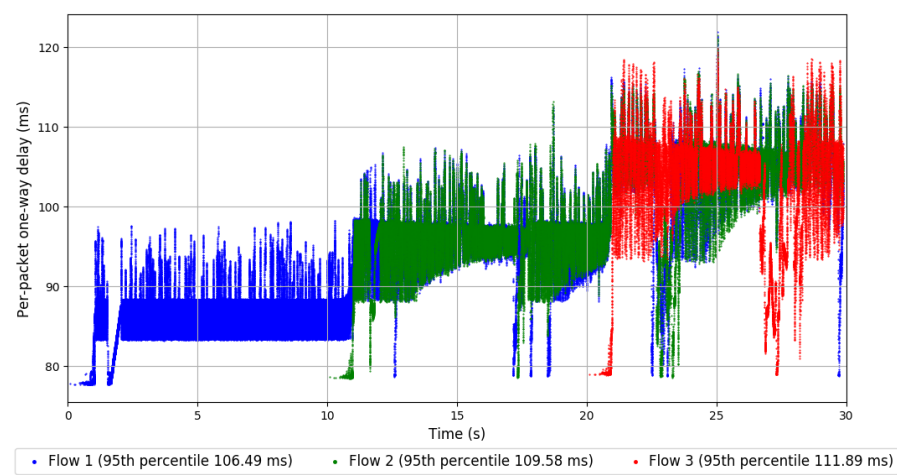
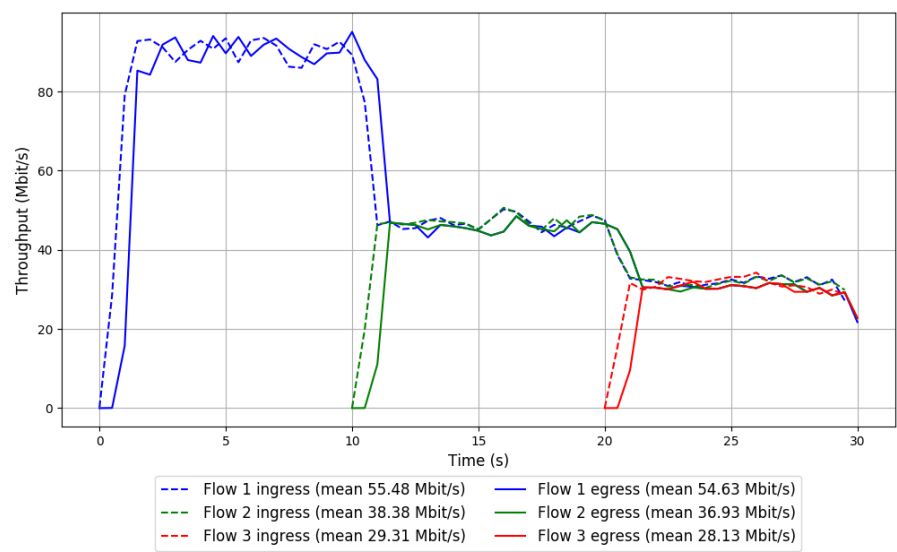
-- Flow 3:

Average throughput: 28.13 Mbit/s

95th percentile per-packet one-way delay: 111.894 ms

Loss rate: 5.72%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-22 19:53:26

End at: 2018-08-22 19:53:56

Local clock offset: -8.347 ms

Remote clock offset: 1.949 ms

Below is generated by plot.py at 2018-08-22 22:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.47 Mbit/s

95th percentile per-packet one-way delay: 115.463 ms

Loss rate: 3.05%

-- Flow 1:

Average throughput: 54.90 Mbit/s

95th percentile per-packet one-way delay: 113.069 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 36.88 Mbit/s

95th percentile per-packet one-way delay: 116.521 ms

Loss rate: 4.32%

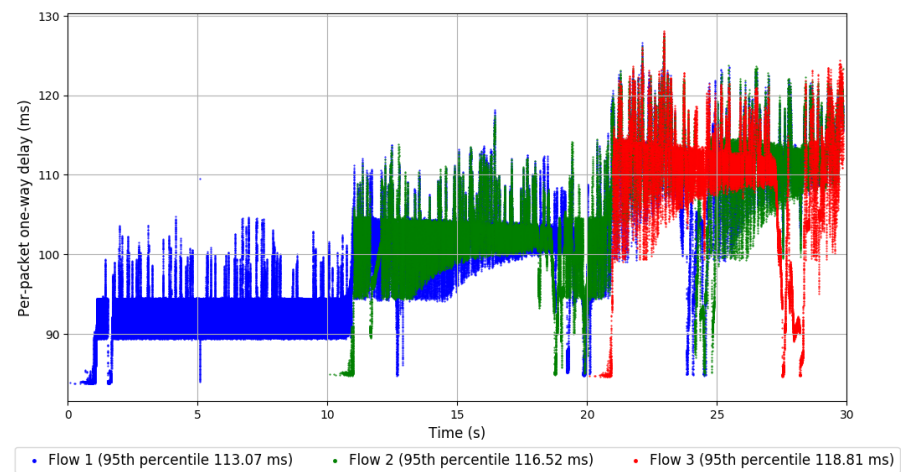
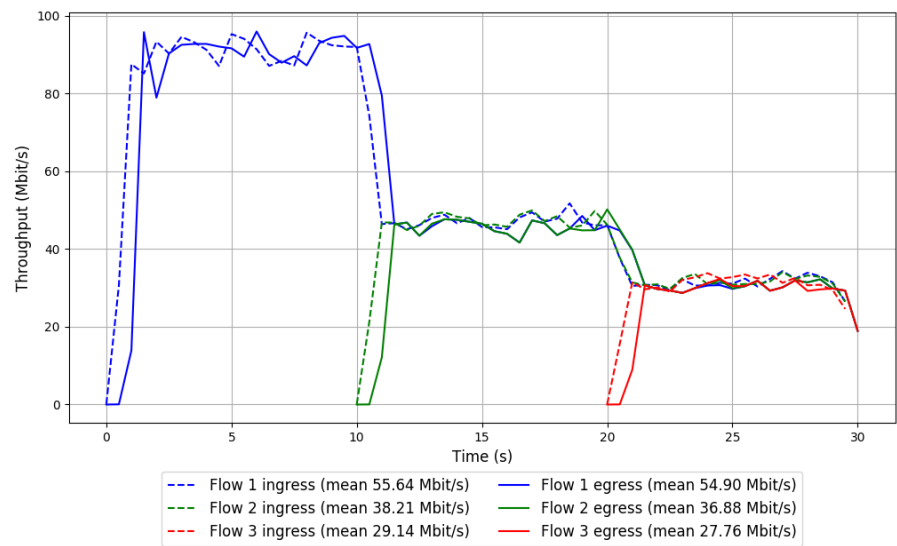
-- Flow 3:

Average throughput: 27.76 Mbit/s

95th percentile per-packet one-way delay: 118.810 ms

Loss rate: 6.31%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-22 20:14:30

End at: 2018-08-22 20:15:00

Local clock offset: -9.034 ms

Remote clock offset: 2.205 ms

Below is generated by plot.py at 2018-08-22 22:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.31 Mbit/s

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

Loss rate: 2.85%

-- Flow 1:

Average throughput: 57.13 Mbit/s

95th percentile per-packet one-way delay: 109.793 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 113.975 ms

Loss rate: 3.81%

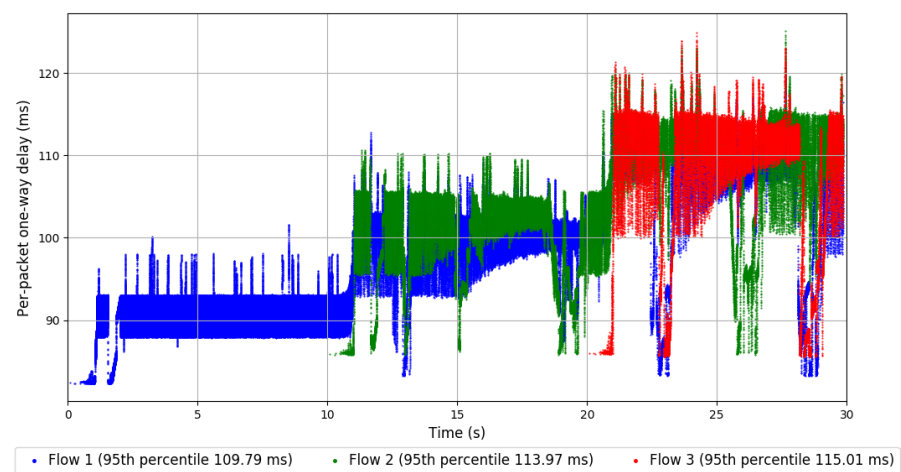
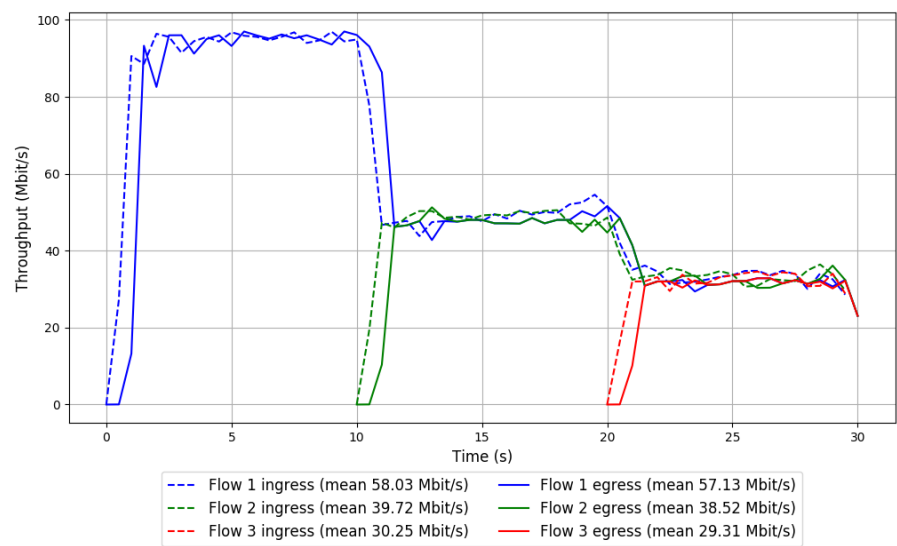
-- Flow 3:

Average throughput: 29.31 Mbit/s

95th percentile per-packet one-way delay: 115.007 ms

Loss rate: 4.86%

Run 4: Report of FillP — Data Link

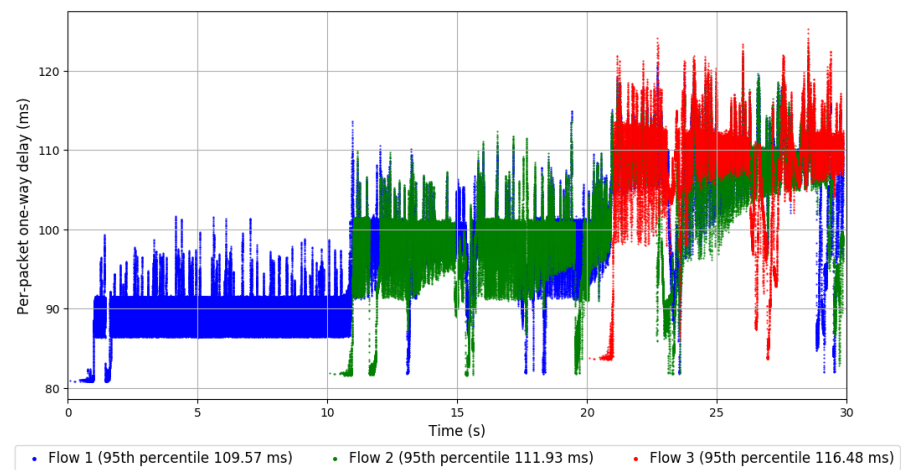
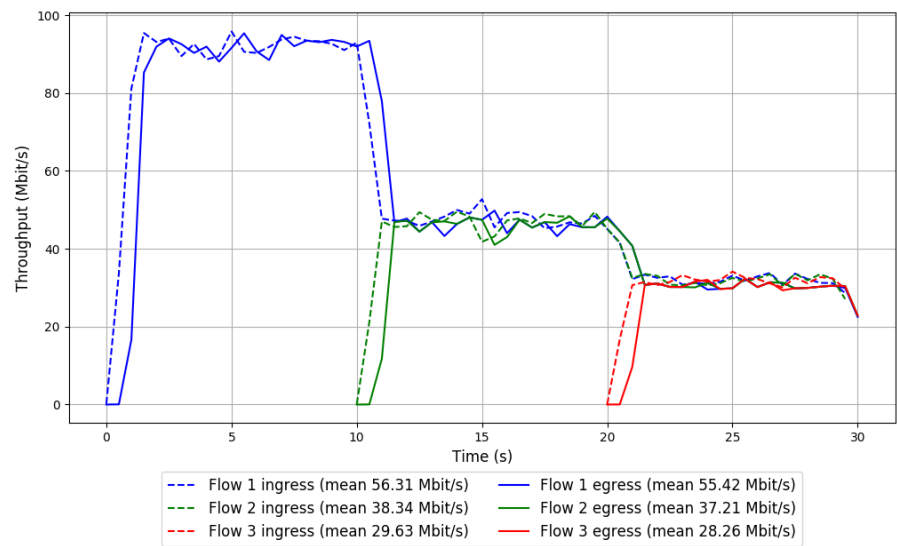


Run 5: Statistics of FillP

Start at: 2018-08-22 20:35:34
End at: 2018-08-22 20:36:04
Local clock offset: -11.038 ms
Remote clock offset: 3.739 ms

Below is generated by plot.py at 2018-08-22 22:39:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 112.085 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 55.42 Mbit/s
95th percentile per-packet one-way delay: 109.571 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 111.933 ms
Loss rate: 3.74%
-- Flow 3:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 116.481 ms
Loss rate: 6.21%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-22 20:56:42

End at: 2018-08-22 20:57:12

Local clock offset: -9.977 ms

Remote clock offset: 2.354 ms

Below is generated by plot.py at 2018-08-22 22:39:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.54 Mbit/s

95th percentile per-packet one-way delay: 107.489 ms

Loss rate: 3.06%

-- Flow 1:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 104.279 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 37.32 Mbit/s

95th percentile per-packet one-way delay: 106.630 ms

Loss rate: 4.34%

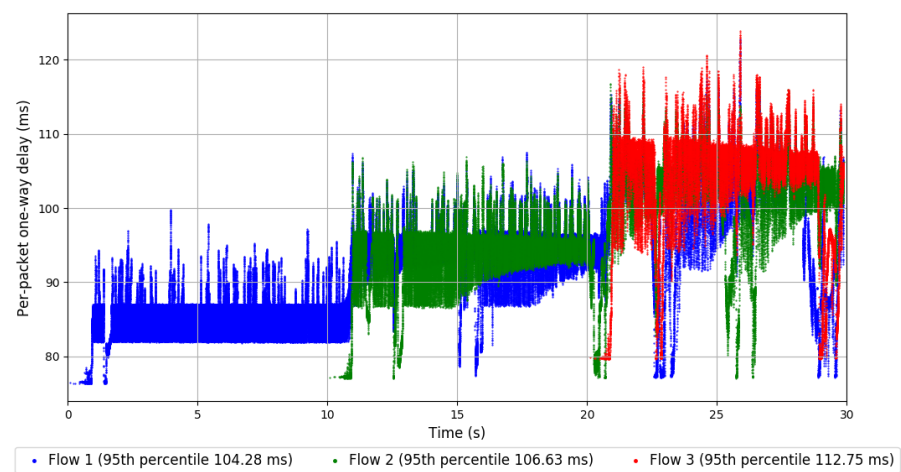
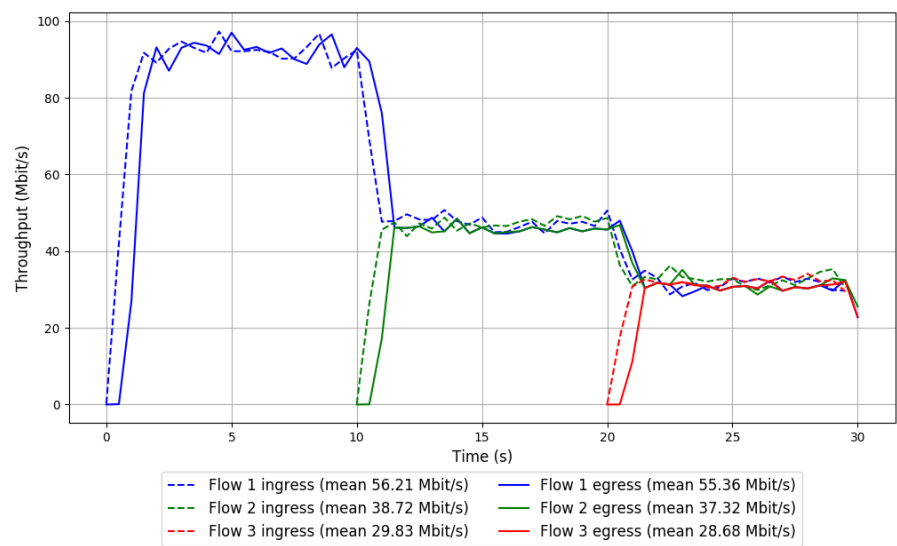
-- Flow 3:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 112.751 ms

Loss rate: 5.46%

Run 6: Report of FillP — Data Link

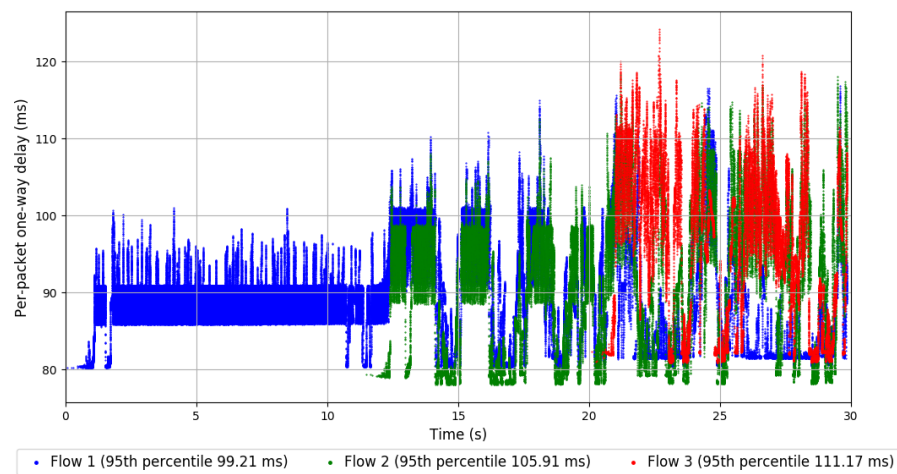
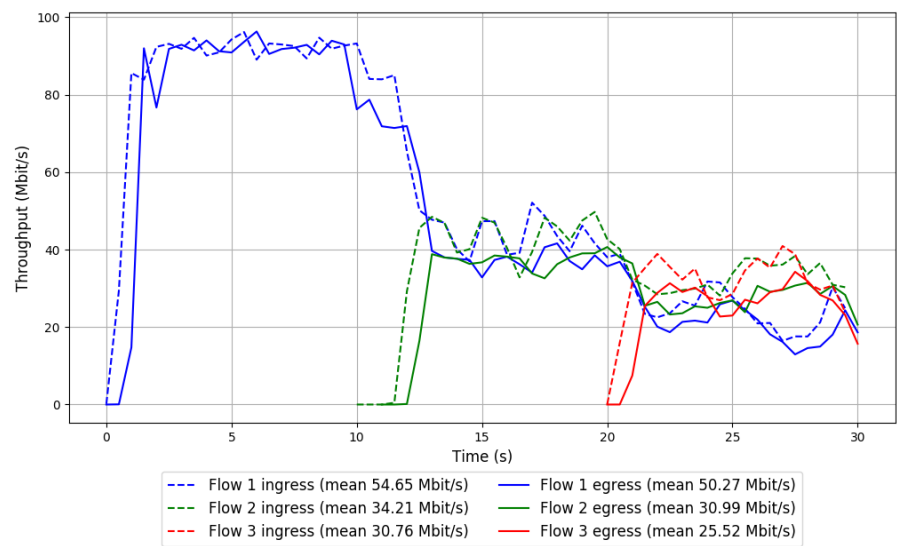


Run 7: Statistics of FillP

Start at: 2018-08-22 21:17:44
End at: 2018-08-22 21:18:14
Local clock offset: -6.843 ms
Remote clock offset: -2.006 ms

Below is generated by plot.py at 2018-08-22 22:39:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 104.449 ms
Loss rate: 11.77%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 99.206 ms
Loss rate: 8.52%
-- Flow 2:
Average throughput: 30.99 Mbit/s
95th percentile per-packet one-way delay: 105.907 ms
Loss rate: 16.59%
-- Flow 3:
Average throughput: 25.52 Mbit/s
95th percentile per-packet one-way delay: 111.175 ms
Loss rate: 18.42%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-22 21:38:59

End at: 2018-08-22 21:39:29

Local clock offset: -3.851 ms

Remote clock offset: 0.972 ms

Below is generated by plot.py at 2018-08-22 22:39:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.15 Mbit/s

95th percentile per-packet one-way delay: 110.834 ms

Loss rate: 15.00%

-- Flow 1:

Average throughput: 45.82 Mbit/s

95th percentile per-packet one-way delay: 103.876 ms

Loss rate: 13.91%

-- Flow 2:

Average throughput: 28.01 Mbit/s

95th percentile per-packet one-way delay: 113.966 ms

Loss rate: 16.36%

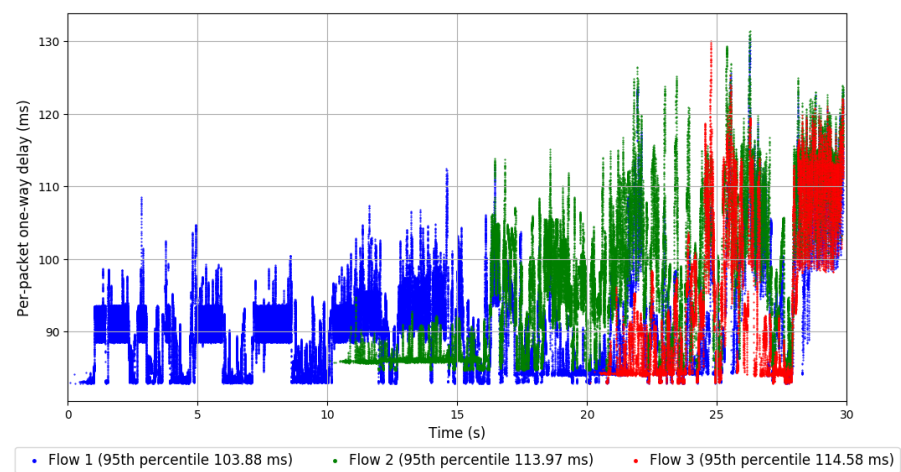
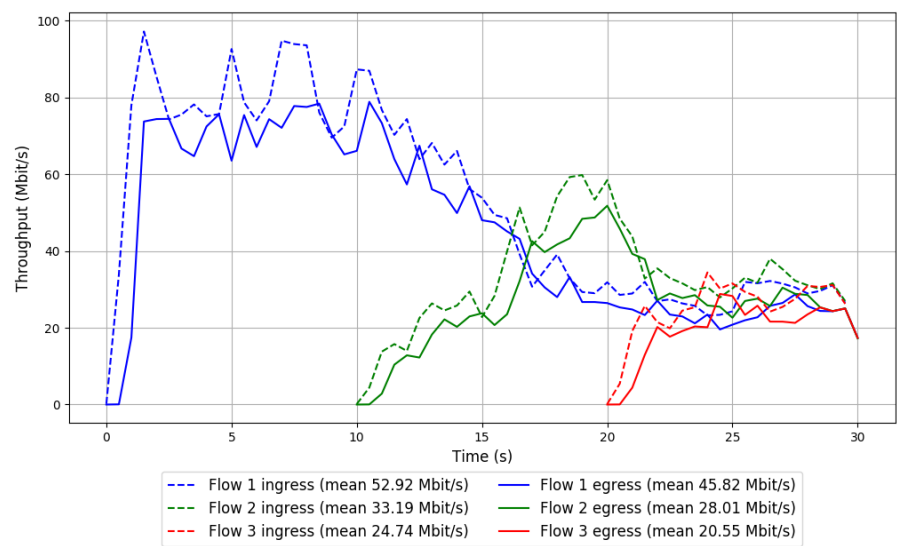
-- Flow 3:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 114.576 ms

Loss rate: 18.38%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-22 22:00:01

End at: 2018-08-22 22:00:32

Local clock offset: -3.038 ms

Remote clock offset: 2.171 ms

Below is generated by plot.py at 2018-08-22 22:40:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 107.332 ms

Loss rate: 9.13%

-- Flow 1:

Average throughput: 49.13 Mbit/s

95th percentile per-packet one-way delay: 105.353 ms

Loss rate: 10.64%

-- Flow 2:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 106.375 ms

Loss rate: 7.80%

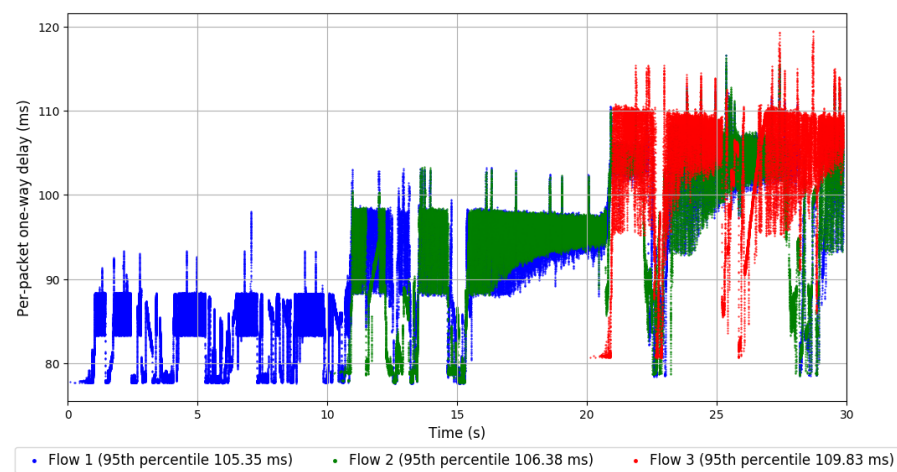
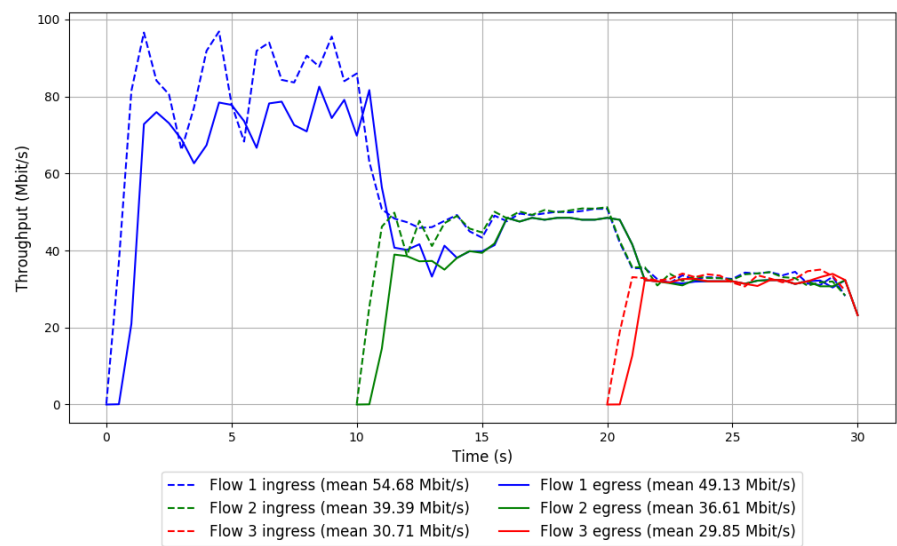
-- Flow 3:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 109.828 ms

Loss rate: 4.46%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-22 22:21:00

End at: 2018-08-22 22:21:30

Local clock offset: -6.815 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-08-22 22:40:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 107.712 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 104.345 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 37.20 Mbit/s

95th percentile per-packet one-way delay: 108.884 ms

Loss rate: 4.28%

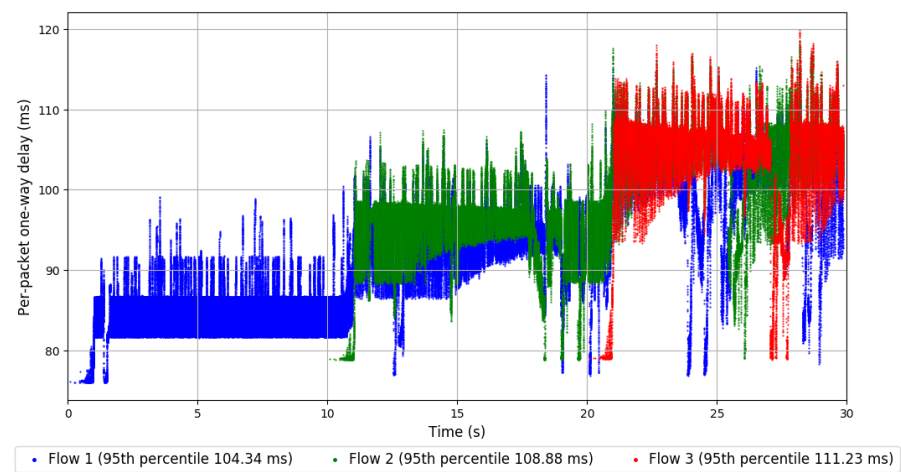
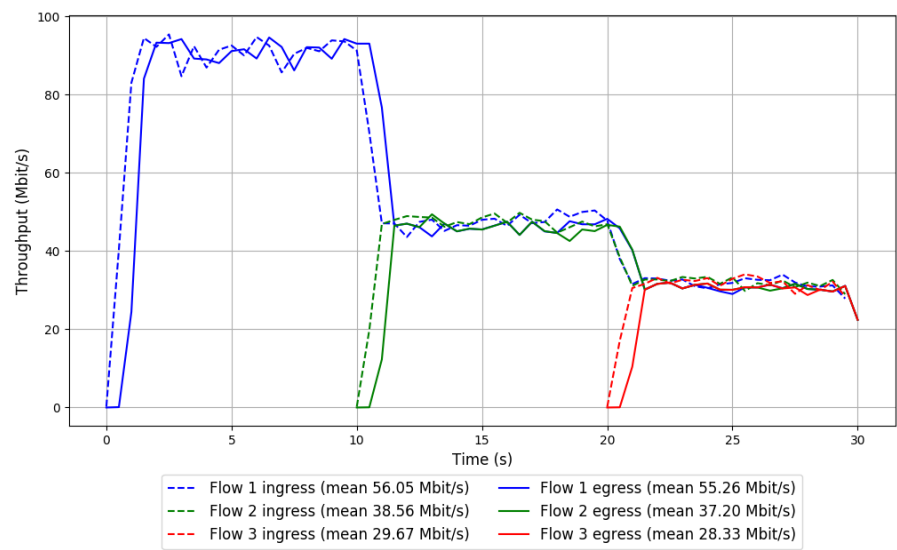
-- Flow 3:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 111.229 ms

Loss rate: 5.96%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-22 19:01:20

End at: 2018-08-22 19:01:50

Local clock offset: -4.329 ms

Remote clock offset: 2.059 ms

Below is generated by plot.py at 2018-08-22 22:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 109.873 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 106.683 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 111.743 ms

Loss rate: 2.05%

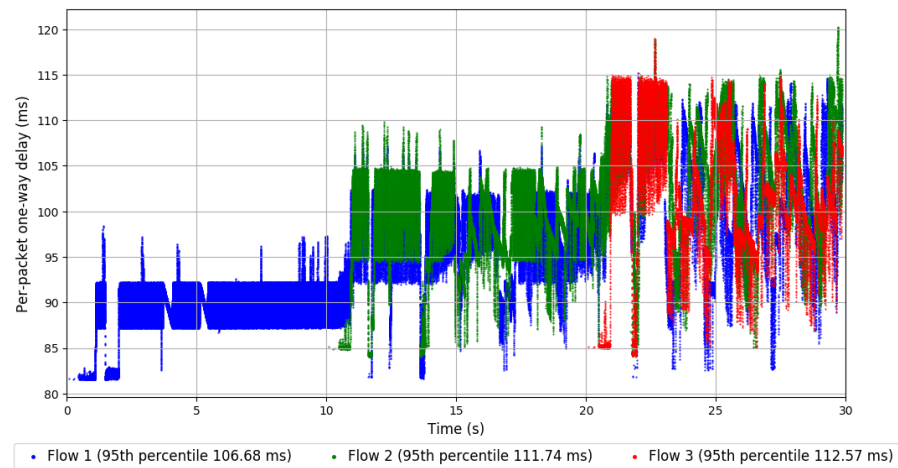
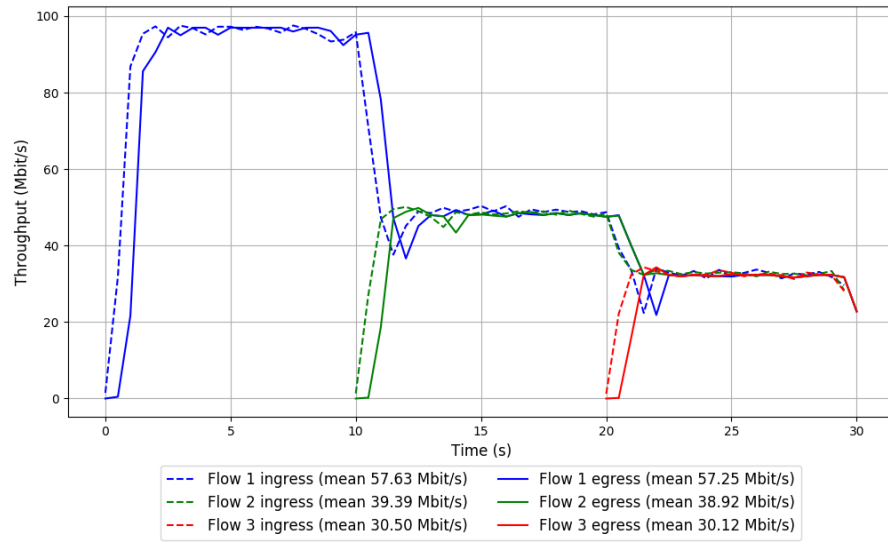
-- Flow 3:

Average throughput: 30.12 Mbit/s

95th percentile per-packet one-way delay: 112.572 ms

Loss rate: 2.88%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-22 19:22:25

End at: 2018-08-22 19:22:55

Local clock offset: -3.394 ms

Remote clock offset: 4.118 ms

Below is generated by plot.py at 2018-08-22 22:40:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 113.359 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 113.208 ms

Loss rate: 2.31%

-- Flow 2:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 113.234 ms

Loss rate: 3.38%

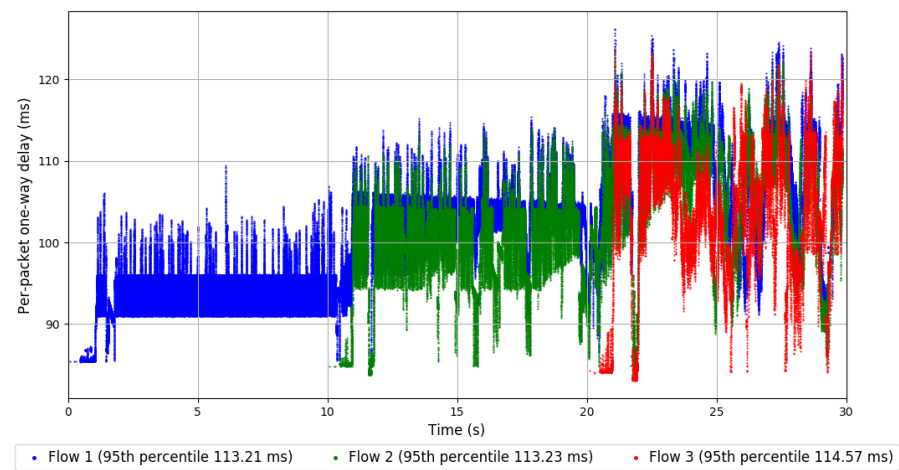
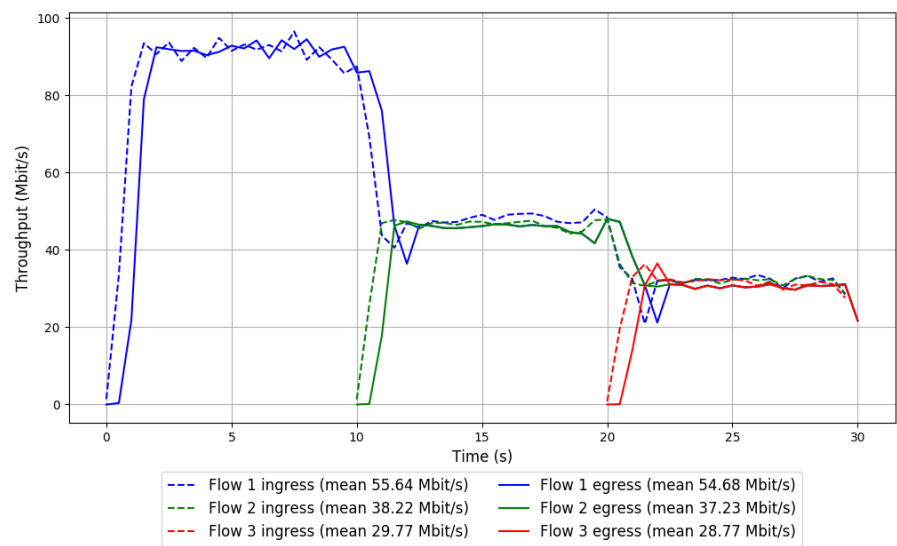
-- Flow 3:

Average throughput: 28.77 Mbit/s

95th percentile per-packet one-way delay: 114.569 ms

Loss rate: 5.06%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-22 19:43:34

End at: 2018-08-22 19:44:04

Local clock offset: -6.911 ms

Remote clock offset: 2.695 ms

Below is generated by plot.py at 2018-08-22 22:40:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.99 Mbit/s

95th percentile per-packet one-way delay: 111.699 ms

Loss rate: 19.44%

-- Flow 1:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 109.931 ms

Loss rate: 18.91%

-- Flow 2:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 111.721 ms

Loss rate: 20.10%

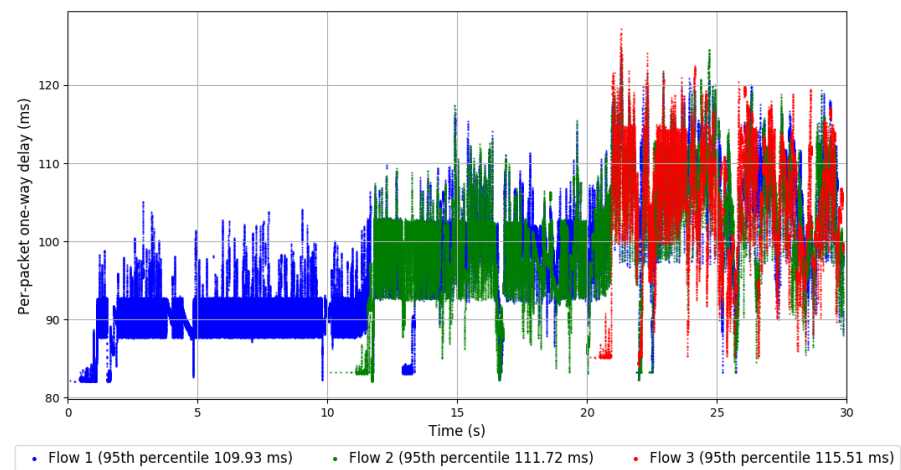
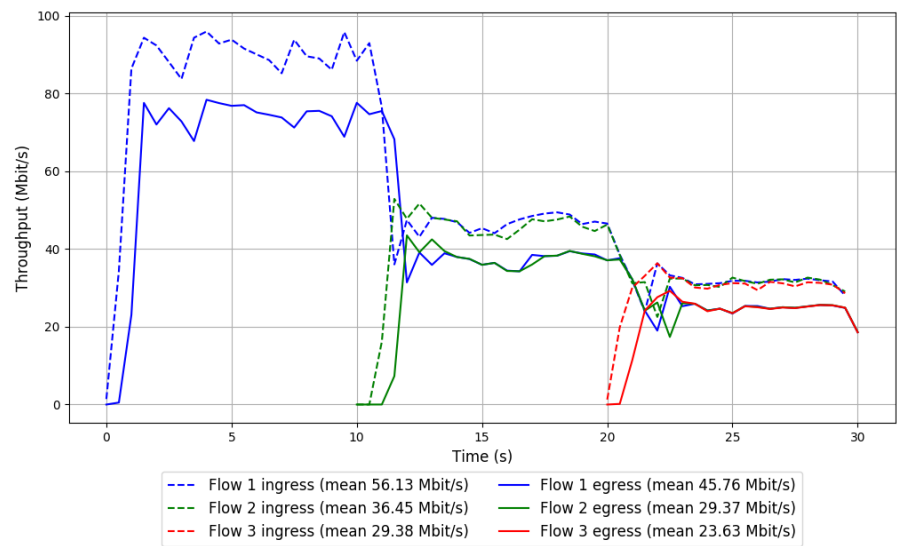
-- Flow 3:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 115.507 ms

Loss rate: 20.92%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-22 20:04:49

End at: 2018-08-22 20:05:19

Local clock offset: -8.47 ms

Remote clock offset: 7.711 ms

Below is generated by plot.py at 2018-08-22 22:40:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.67 Mbit/s

95th percentile per-packet one-way delay: 109.425 ms

Loss rate: 4.57%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 107.715 ms

Loss rate: 3.74%

-- Flow 2:

Average throughput: 35.16 Mbit/s

95th percentile per-packet one-way delay: 109.857 ms

Loss rate: 5.83%

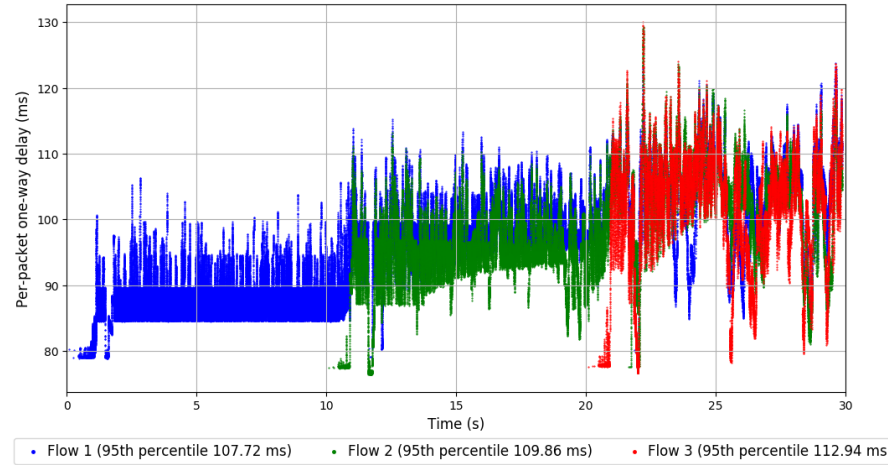
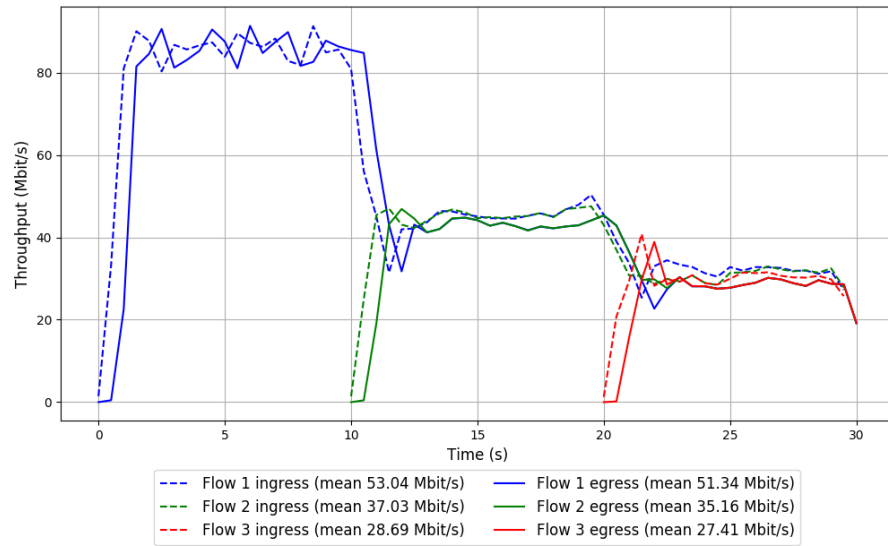
-- Flow 3:

Average throughput: 27.41 Mbit/s

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

Loss rate: 5.97%

Run 4: Report of FillP-Sheep — Data Link

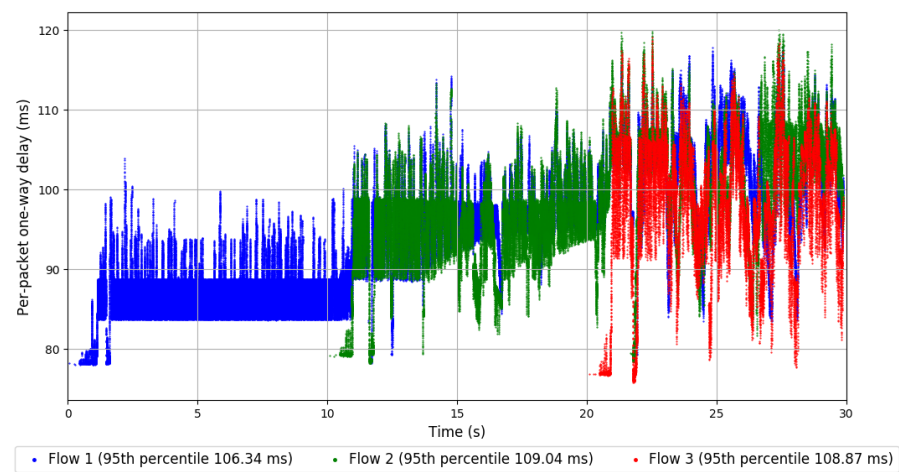
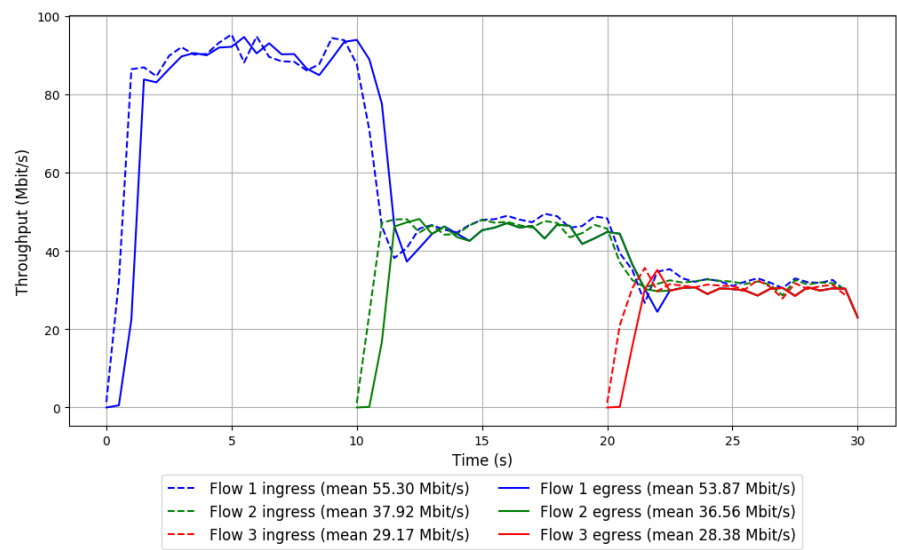


Run 5: Statistics of FillP-Sheep

Start at: 2018-08-22 20:25:53
End at: 2018-08-22 20:26:23
Local clock offset: -10.483 ms
Remote clock offset: 8.508 ms

Below is generated by plot.py at 2018-08-22 22:40:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 107.645 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 53.87 Mbit/s
95th percentile per-packet one-way delay: 106.341 ms
Loss rate: 3.10%
-- Flow 2:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 109.038 ms
Loss rate: 4.38%
-- Flow 3:
Average throughput: 28.38 Mbit/s
95th percentile per-packet one-way delay: 108.874 ms
Loss rate: 4.32%

Run 5: Report of FillP-Sheep — Data Link

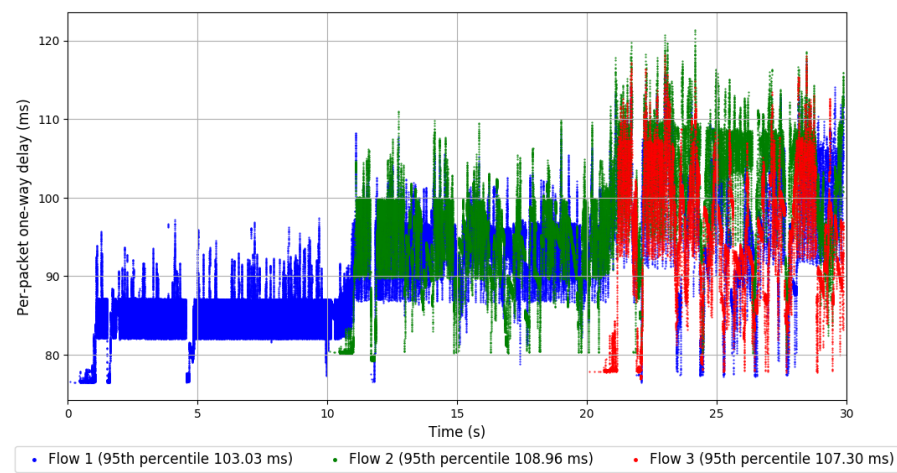
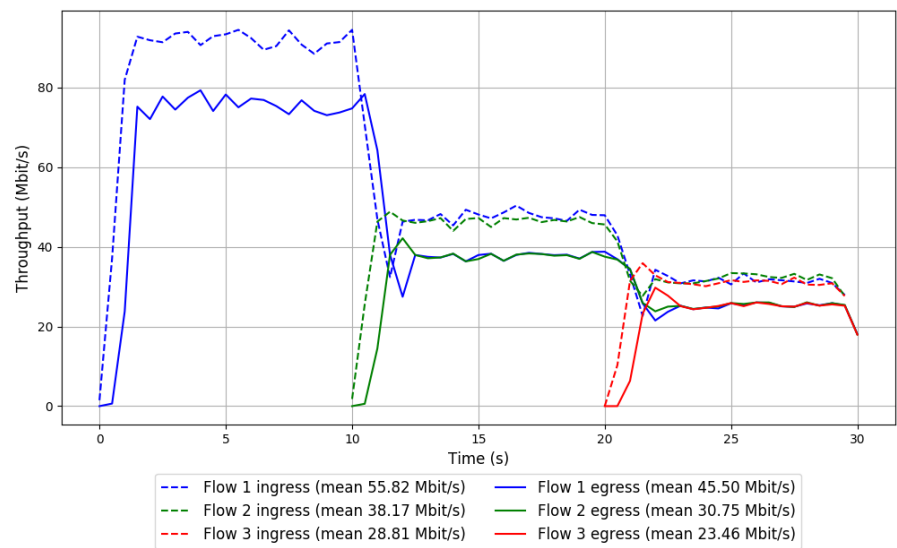


Run 6: Statistics of FillP-Sheep

Start at: 2018-08-22 20:46:54
End at: 2018-08-22 20:47:24
Local clock offset: -10.651 ms
Remote clock offset: 4.525 ms

Below is generated by plot.py at 2018-08-22 22:40:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.63 Mbit/s
95th percentile per-packet one-way delay: 106.648 ms
Loss rate: 19.33%
-- Flow 1:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 103.033 ms
Loss rate: 18.90%
-- Flow 2:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 108.956 ms
Loss rate: 20.08%
-- Flow 3:
Average throughput: 23.46 Mbit/s
95th percentile per-packet one-way delay: 107.296 ms
Loss rate: 19.83%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-08-22 21:08:04

End at: 2018-08-22 21:08:34

Local clock offset: -9.598 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-08-22 22:41:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 106.475 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 103.769 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 107.254 ms

Loss rate: 3.65%

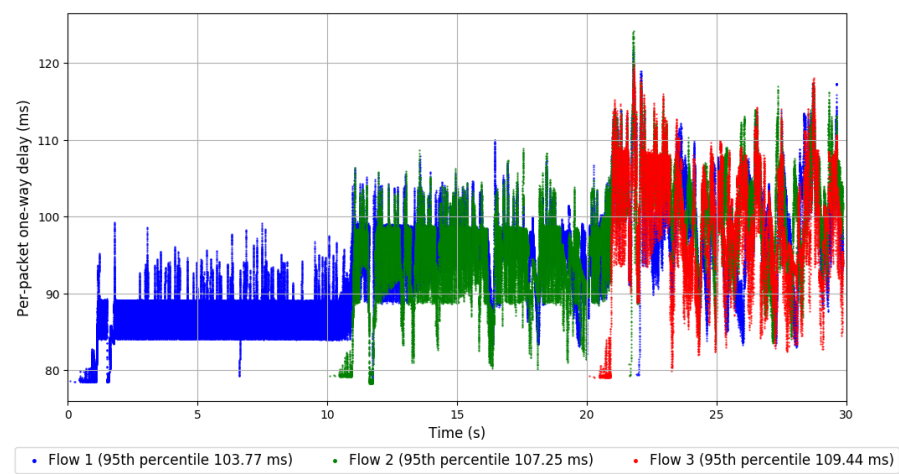
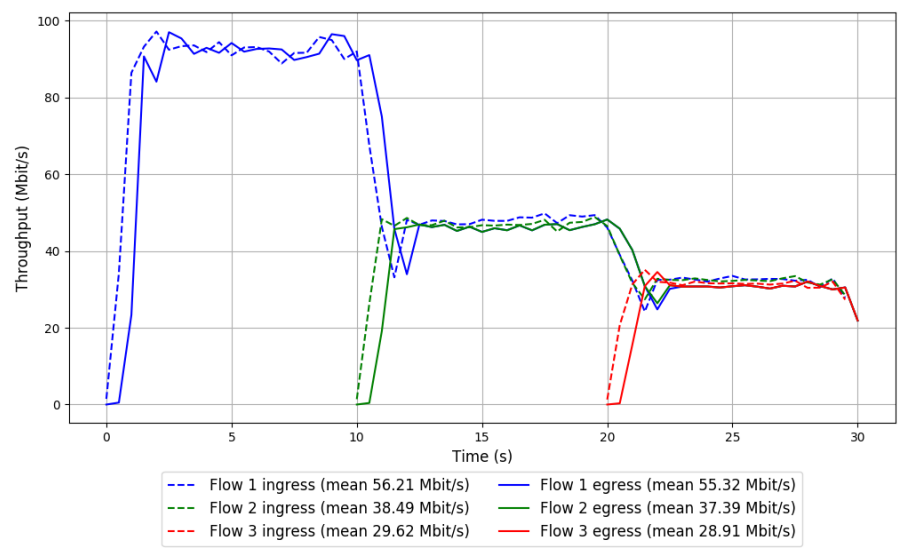
-- Flow 3:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 109.443 ms

Loss rate: 3.96%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-22 21:29:17

End at: 2018-08-22 21:29:47

Local clock offset: -3.7 ms

Remote clock offset: 0.737 ms

Below is generated by plot.py at 2018-08-22 22:41:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 112.850 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 111.255 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 114.086 ms

Loss rate: 3.68%

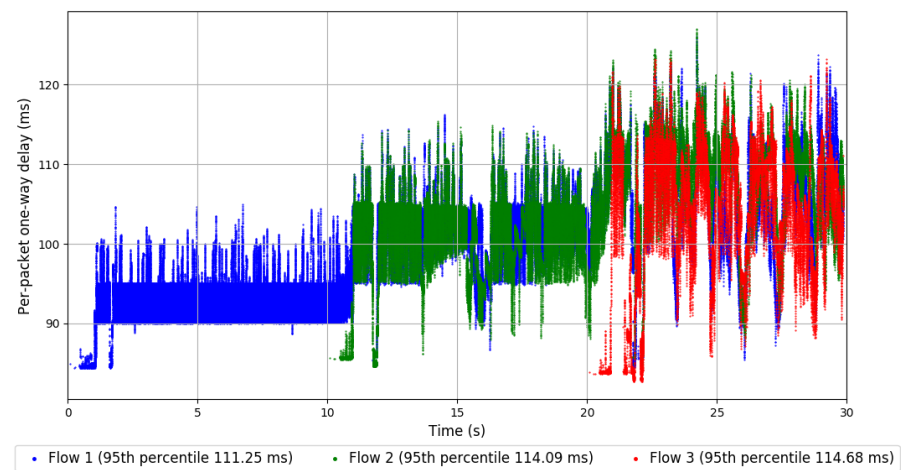
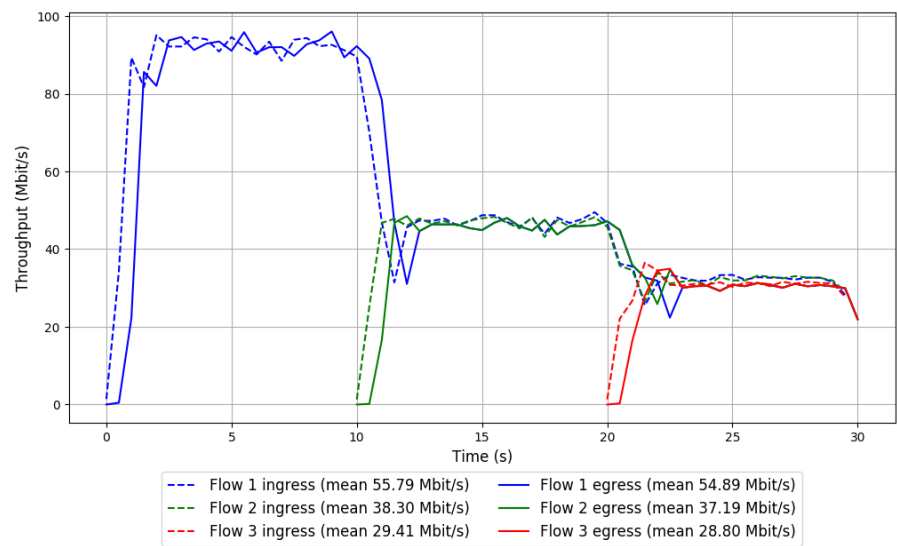
-- Flow 3:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 114.676 ms

Loss rate: 3.62%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-22 21:50:23

End at: 2018-08-22 21:50:53

Local clock offset: -2.651 ms

Remote clock offset: 4.986 ms

Below is generated by plot.py at 2018-08-22 22:41:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 106.308 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 104.404 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 106.255 ms

Loss rate: 2.06%

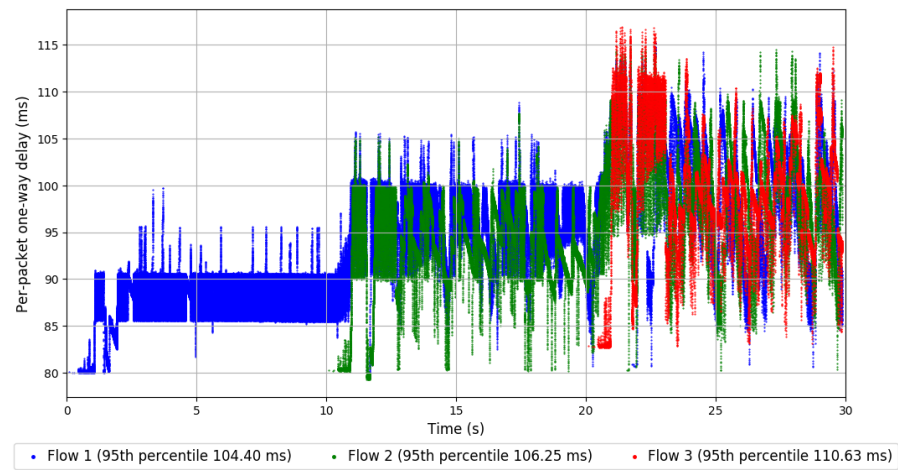
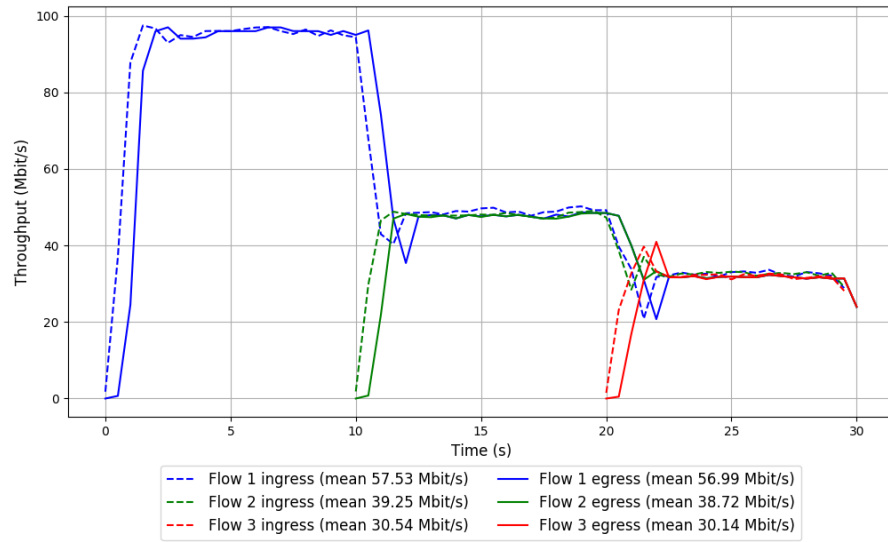
-- Flow 3:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 110.633 ms

Loss rate: 2.88%

Run 9: Report of FillP-Sheep — Data Link

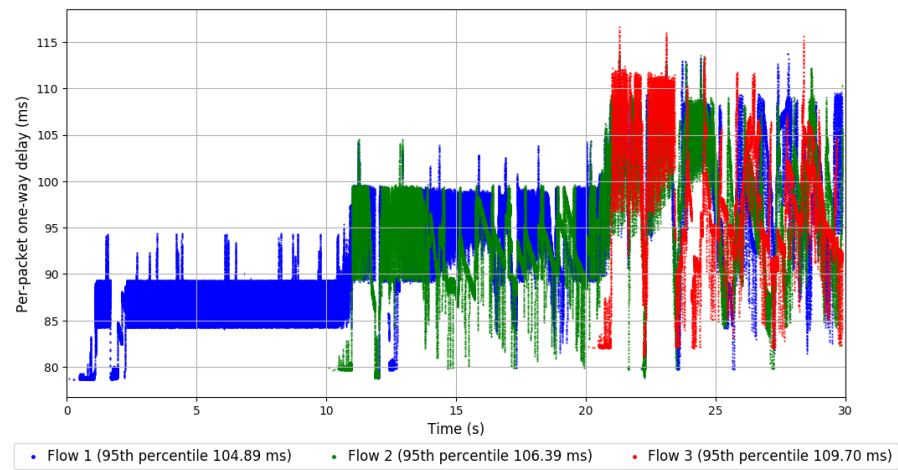
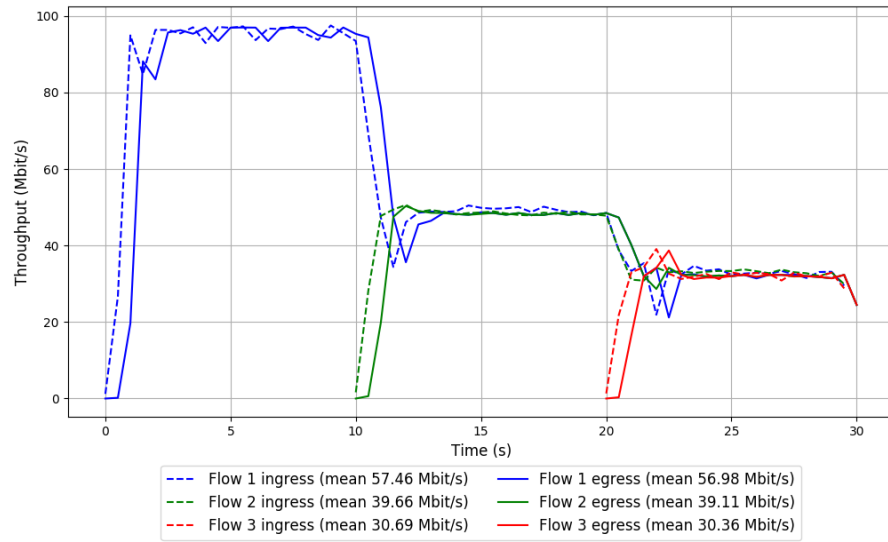


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-22 22:11:22
End at: 2018-08-22 22:11:52
Local clock offset: -3.615 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-08-22 22:41:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 106.251 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 56.98 Mbit/s
95th percentile per-packet one-way delay: 104.885 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 106.392 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 109.704 ms
Loss rate: 2.61%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-08-22 19:16:04

End at: 2018-08-22 19:16:34

Local clock offset: -4.12 ms

Remote clock offset: 4.687 ms

Below is generated by plot.py at 2018-08-22 22:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 116.481 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 116.041 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 35.13 Mbit/s

95th percentile per-packet one-way delay: 116.661 ms

Loss rate: 1.10%

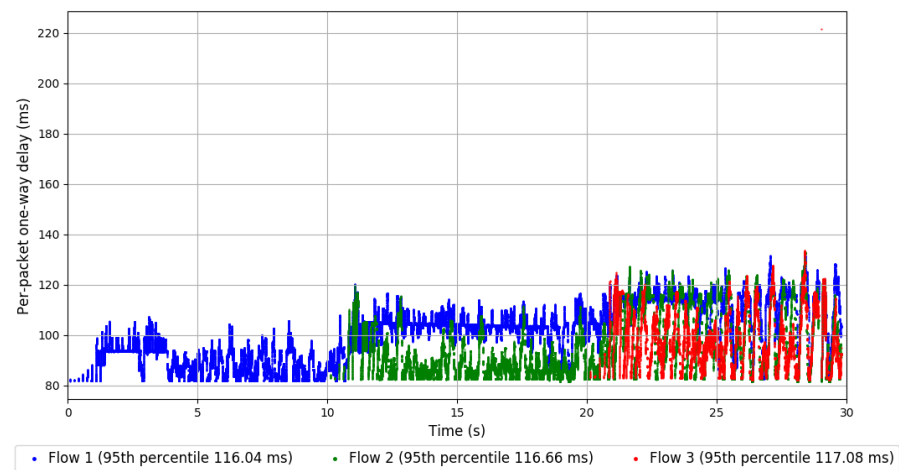
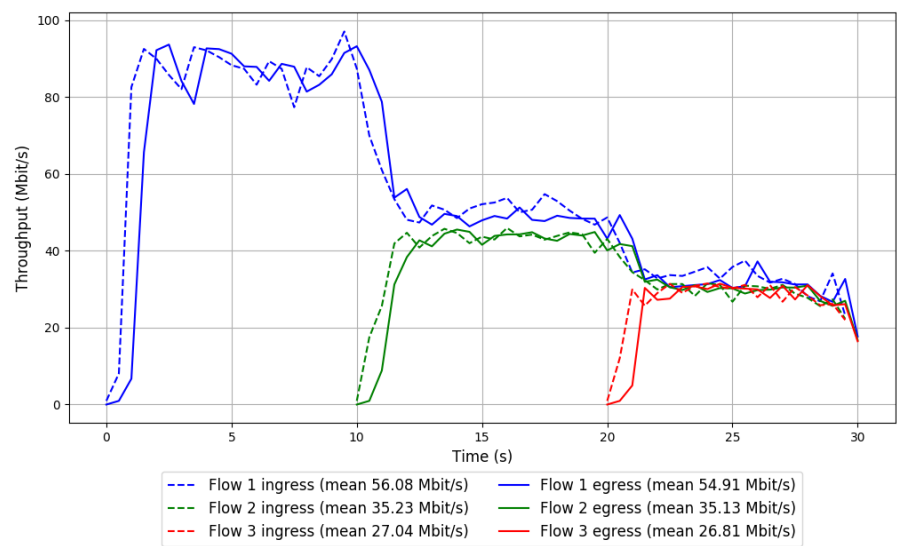
-- Flow 3:

Average throughput: 26.81 Mbit/s

95th percentile per-packet one-way delay: 117.083 ms

Loss rate: 2.45%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-22 19:37:11

End at: 2018-08-22 19:37:41

Local clock offset: -5.295 ms

Remote clock offset: 7.427 ms

Below is generated by plot.py at 2018-08-22 22:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 114.751 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 54.24 Mbit/s

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

Loss rate: 2.04%

-- Flow 2:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 116.551 ms

Loss rate: 1.36%

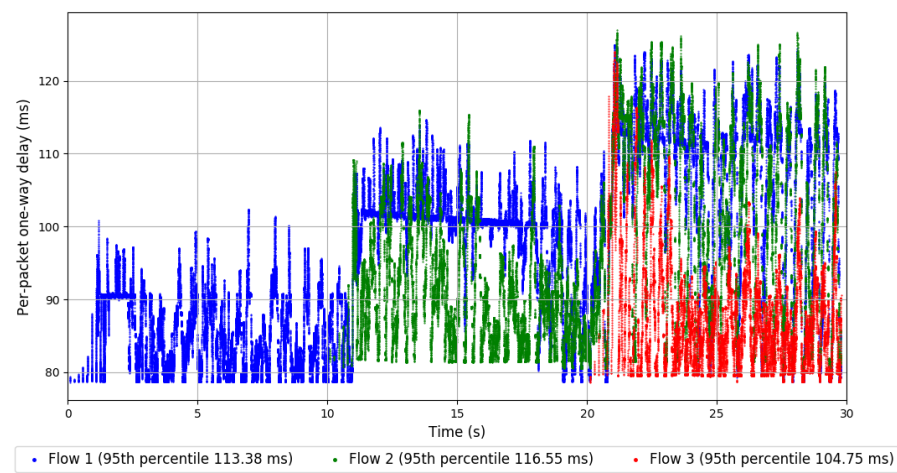
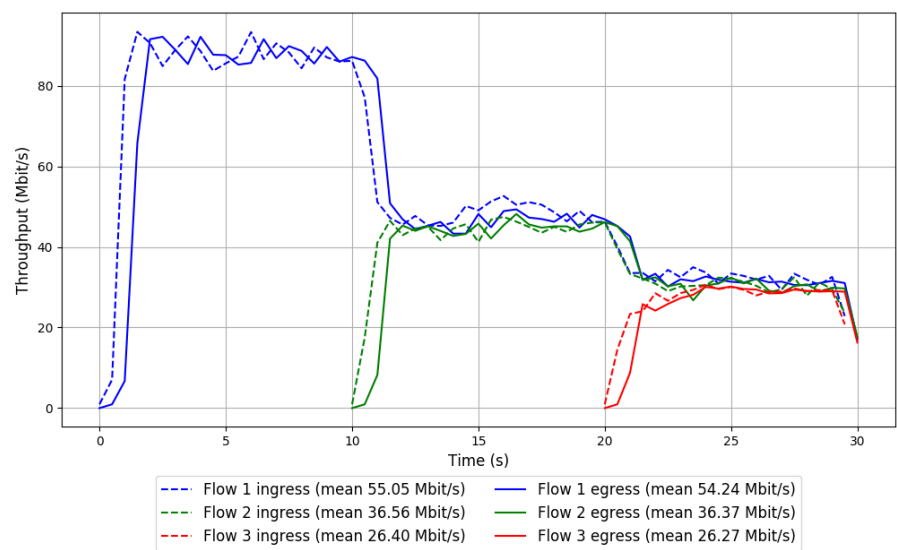
-- Flow 3:

Average throughput: 26.27 Mbit/s

95th percentile per-packet one-way delay: 104.749 ms

Loss rate: 2.09%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-22 19:58:29

End at: 2018-08-22 19:58:59

Local clock offset: -7.187 ms

Remote clock offset: 6.592 ms

Below is generated by plot.py at 2018-08-22 22:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 115.642 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 53.73 Mbit/s

95th percentile per-packet one-way delay: 115.172 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 36.22 Mbit/s

95th percentile per-packet one-way delay: 117.477 ms

Loss rate: 1.38%

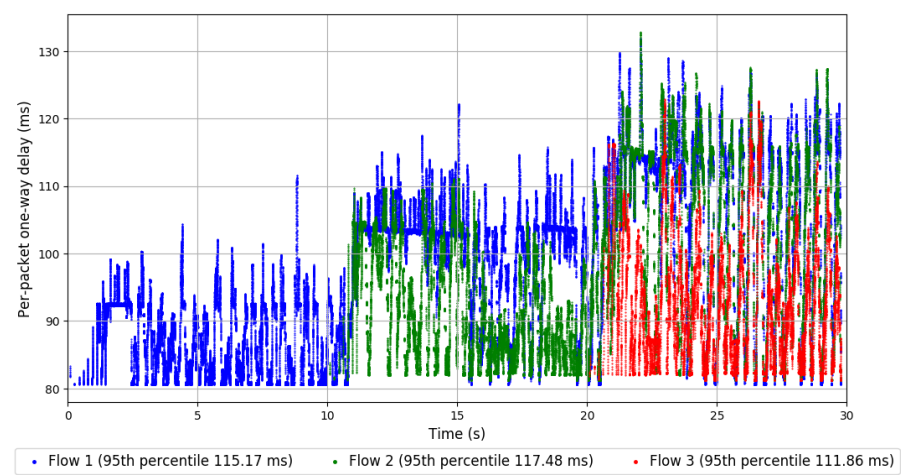
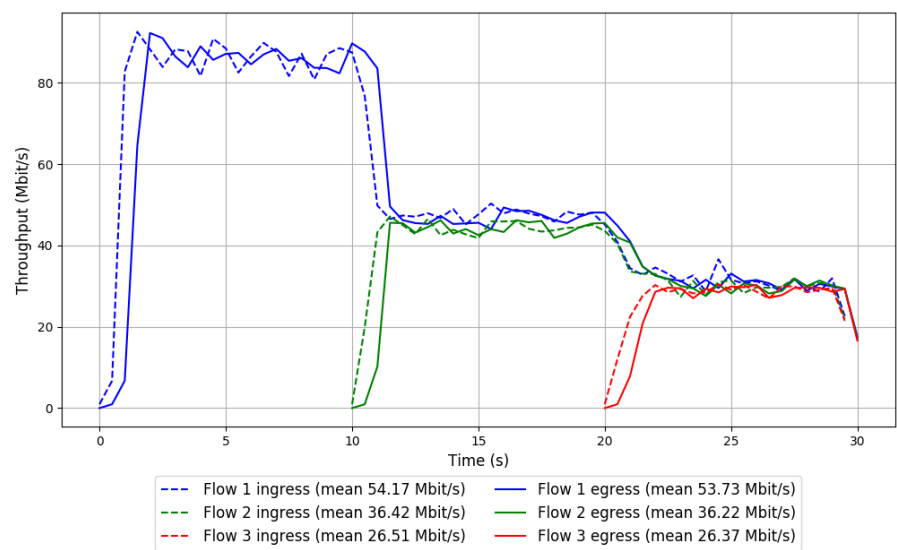
-- Flow 3:

Average throughput: 26.37 Mbit/s

95th percentile per-packet one-way delay: 111.857 ms

Loss rate: 2.17%

Run 3: Report of Indigo — Data Link

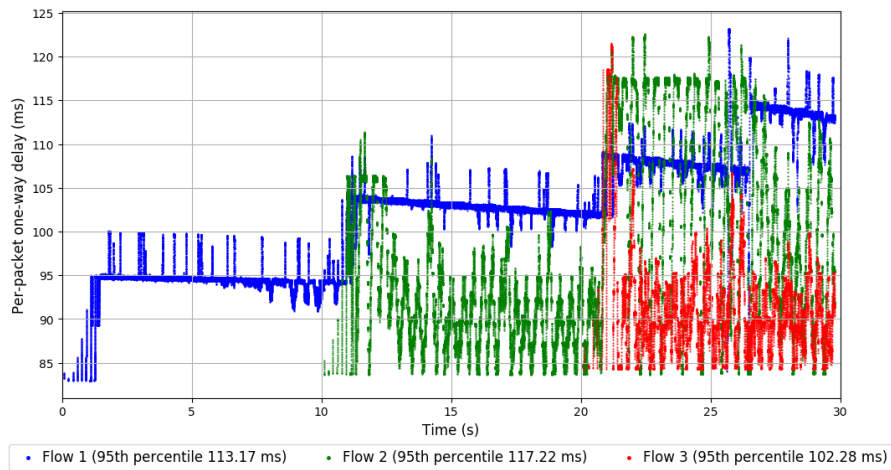
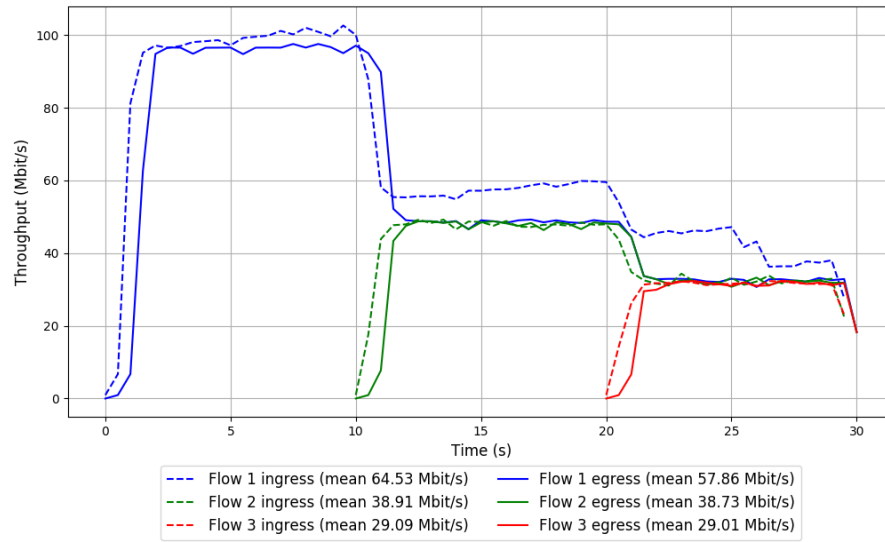


Run 4: Statistics of Indigo

Start at: 2018-08-22 20:19:33
End at: 2018-08-22 20:20:03
Local clock offset: -10.106 ms
Remote clock offset: 3.383 ms

Below is generated by plot.py at 2018-08-22 22:41:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.97 Mbit/s
95th percentile per-packet one-way delay: 114.015 ms
Loss rate: 7.51%
-- Flow 1:
Average throughput: 57.86 Mbit/s
95th percentile per-packet one-way delay: 113.169 ms
Loss rate: 10.83%
-- Flow 2:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 117.223 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 29.01 Mbit/s
95th percentile per-packet one-way delay: 102.284 ms
Loss rate: 1.94%

Run 4: Report of Indigo — Data Link

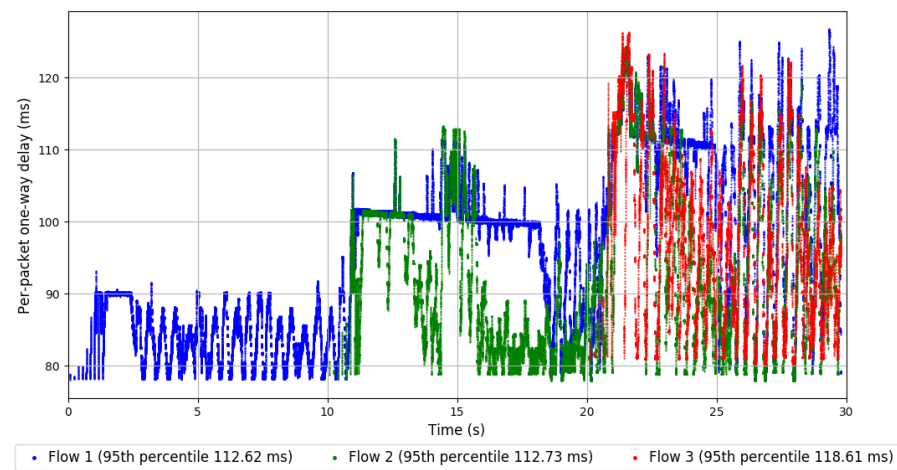
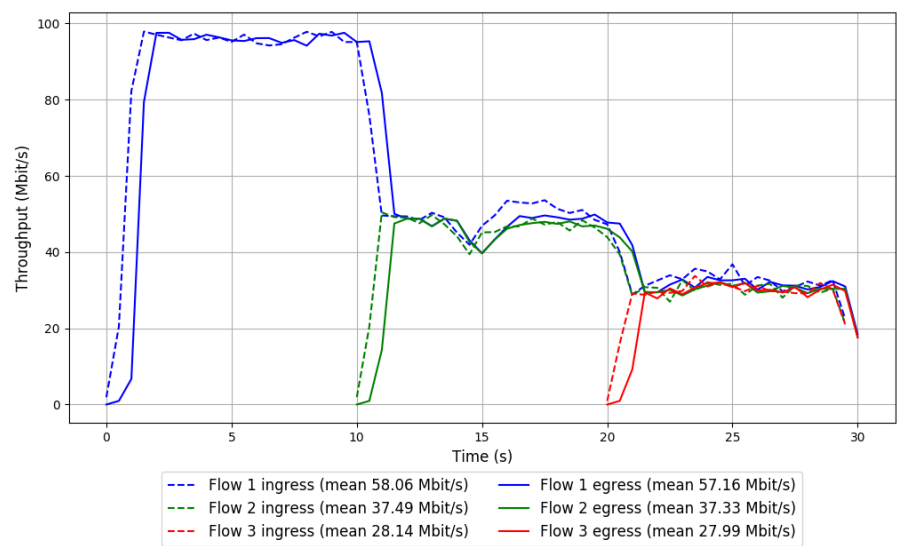


Run 5: Statistics of Indigo

Start at: 2018-08-22 20:40:34
End at: 2018-08-22 20:41:04
Local clock offset: -10.065 ms
Remote clock offset: 7.403 ms

Below is generated by plot.py at 2018-08-22 22:42:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.02 Mbit/s
95th percentile per-packet one-way delay: 113.281 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 112.622 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 37.33 Mbit/s
95th percentile per-packet one-way delay: 112.726 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 27.99 Mbit/s
95th percentile per-packet one-way delay: 118.606 ms
Loss rate: 2.11%

Run 5: Report of Indigo — Data Link

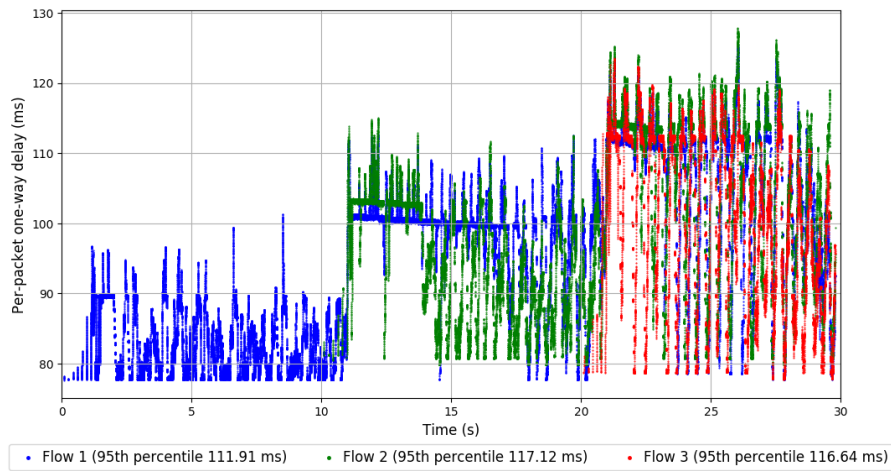
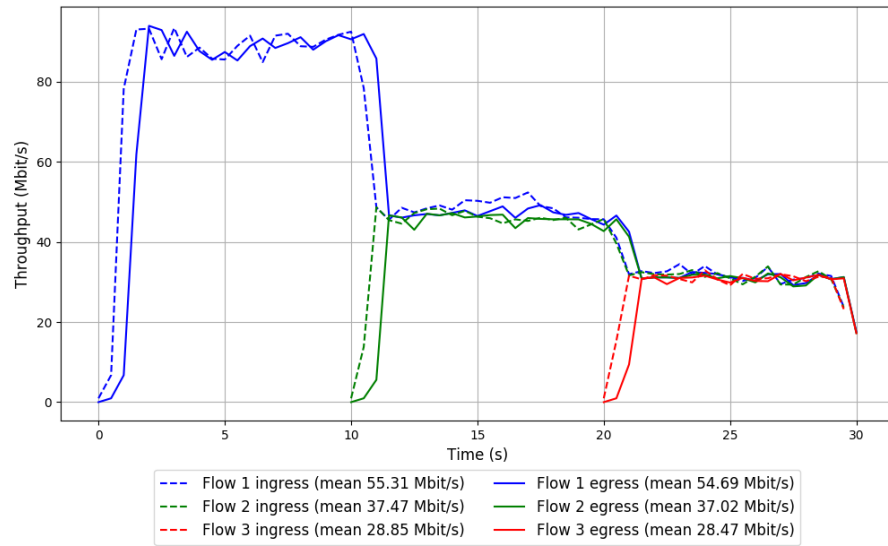


Run 6: Statistics of Indigo

Start at: 2018-08-22 21:01:44
End at: 2018-08-22 21:02:14
Local clock offset: -10.083 ms
Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-08-22 22:42:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 114.253 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 54.69 Mbit/s
95th percentile per-packet one-way delay: 111.908 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 117.120 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 116.643 ms
Loss rate: 2.93%

Run 6: Report of Indigo — Data Link

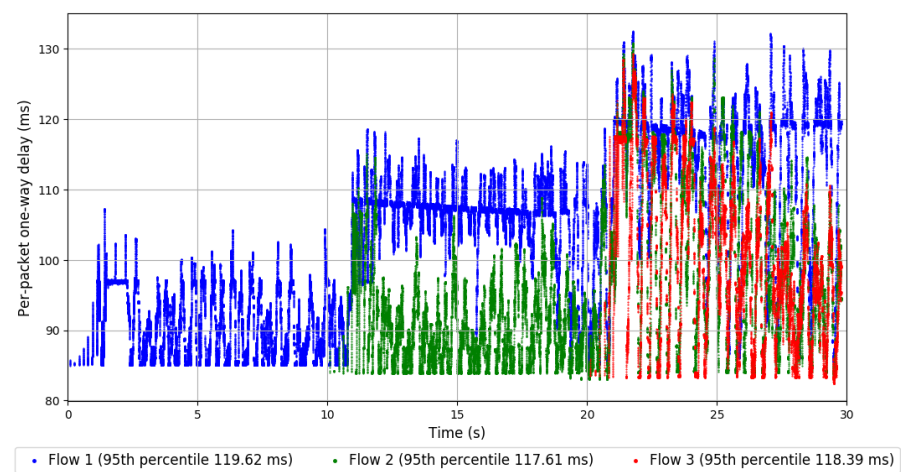
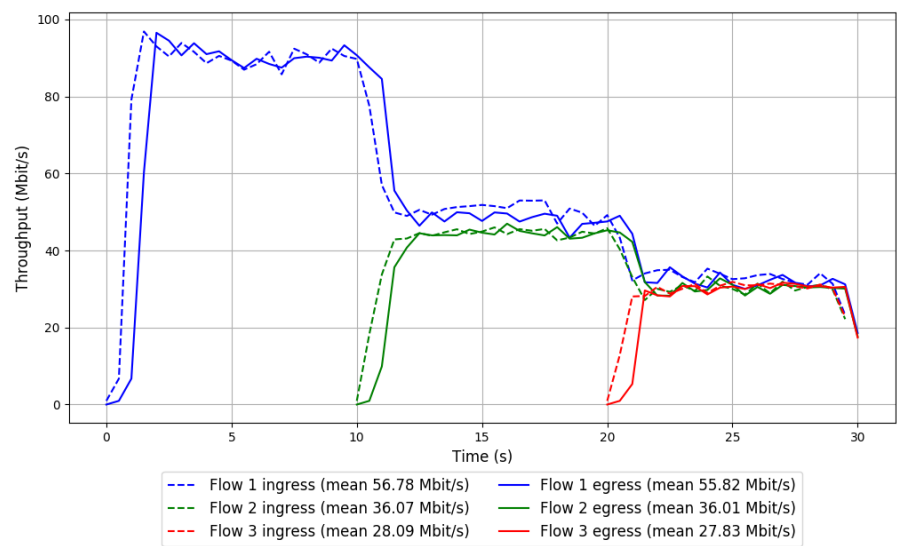


Run 7: Statistics of Indigo

Start at: 2018-08-22 21:22:56
End at: 2018-08-22 21:23:26
Local clock offset: -5.181 ms
Remote clock offset: -2.392 ms

Below is generated by plot.py at 2018-08-22 22:42:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 119.288 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 55.82 Mbit/s
95th percentile per-packet one-way delay: 119.623 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 117.610 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 27.83 Mbit/s
95th percentile per-packet one-way delay: 118.395 ms
Loss rate: 2.55%

Run 7: Report of Indigo — Data Link

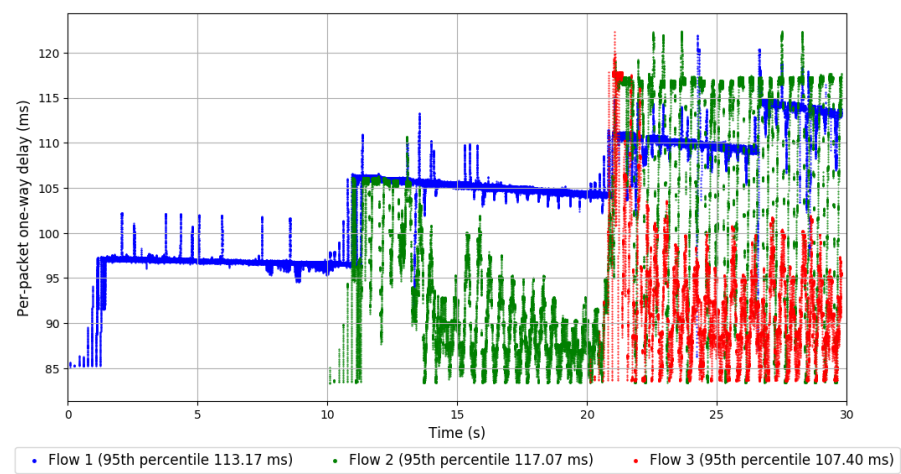
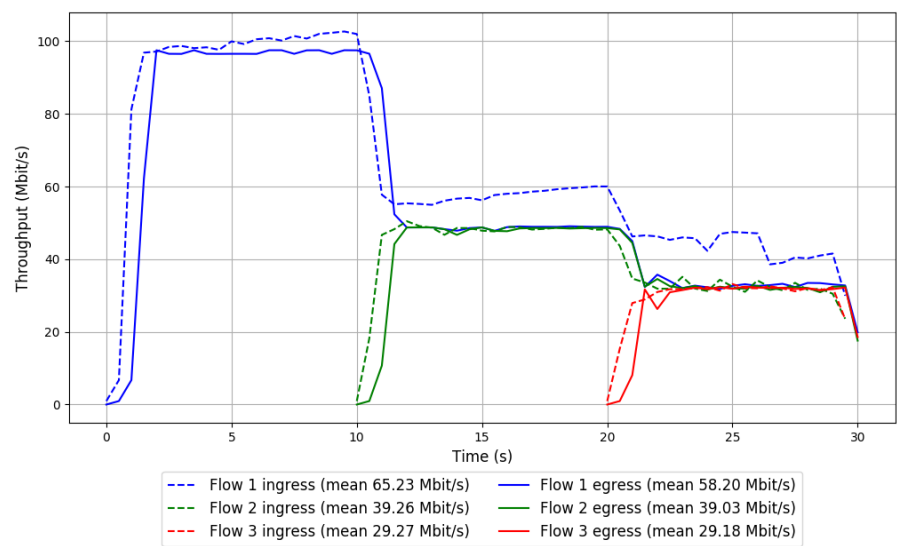


Run 8: Statistics of Indigo

Start at: 2018-08-22 21:44:01
End at: 2018-08-22 21:44:31
Local clock offset: -3.672 ms
Remote clock offset: 1.244 ms

Below is generated by plot.py at 2018-08-22 22:42:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 115.003 ms
Loss rate: 7.86%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 113.172 ms
Loss rate: 11.30%
-- Flow 2:
Average throughput: 39.03 Mbit/s
95th percentile per-packet one-way delay: 117.073 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 107.400 ms
Loss rate: 1.98%

Run 8: Report of Indigo — Data Link

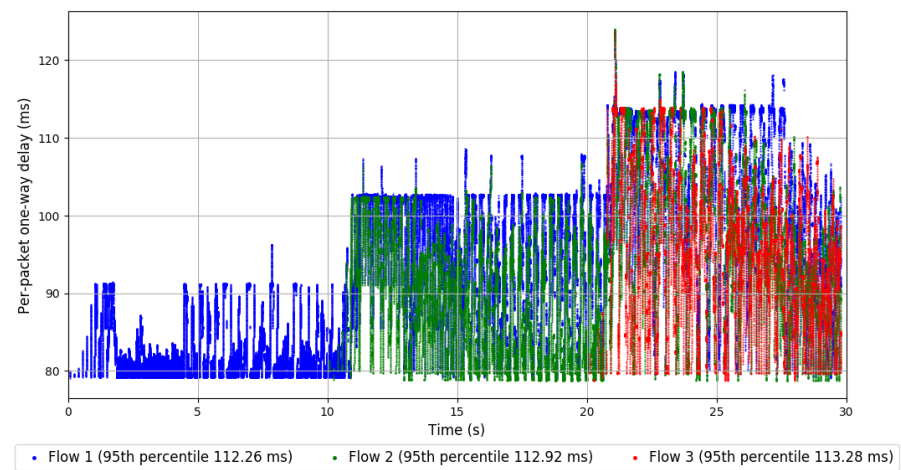
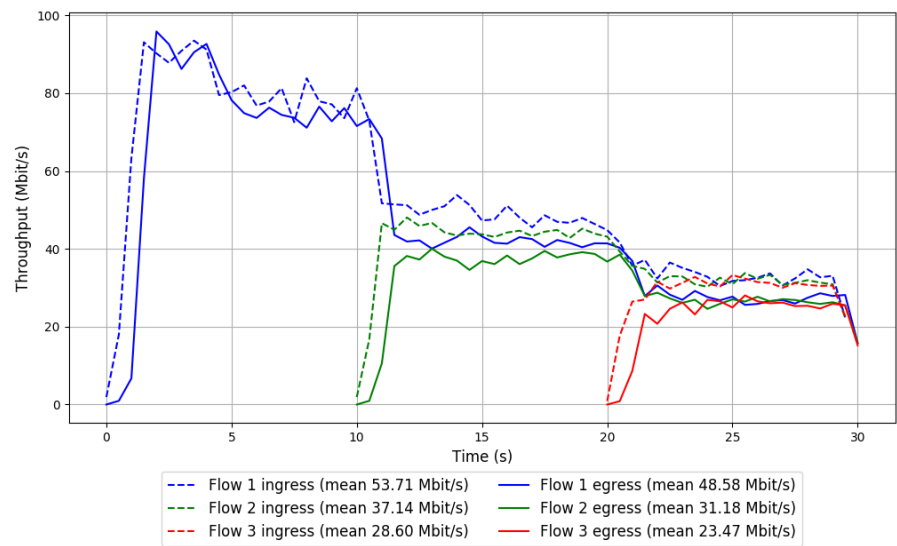


Run 9: Statistics of Indigo

Start at: 2018-08-22 22:05:02
End at: 2018-08-22 22:05:32
Local clock offset: -2.886 ms
Remote clock offset: -0.197 ms

Below is generated by plot.py at 2018-08-22 22:42:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.90 Mbit/s
95th percentile per-packet one-way delay: 112.634 ms
Loss rate: 12.88%
-- Flow 1:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 112.260 ms
Loss rate: 10.02%
-- Flow 2:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 112.925 ms
Loss rate: 16.69%
-- Flow 3:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 113.277 ms
Loss rate: 19.23%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-22 22:26:01

End at: 2018-08-22 22:26:31

Local clock offset: -7.267 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-08-22 22:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 111.693 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 111.877 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 112.163 ms

Loss rate: 0.90%

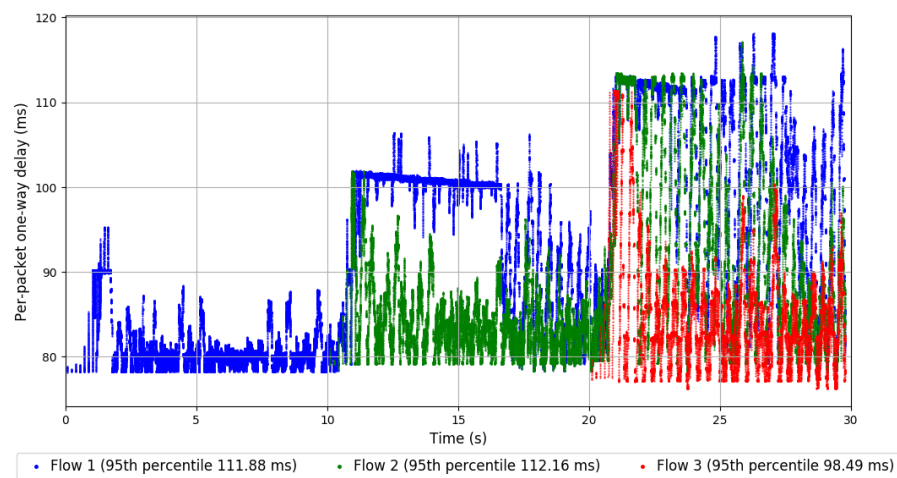
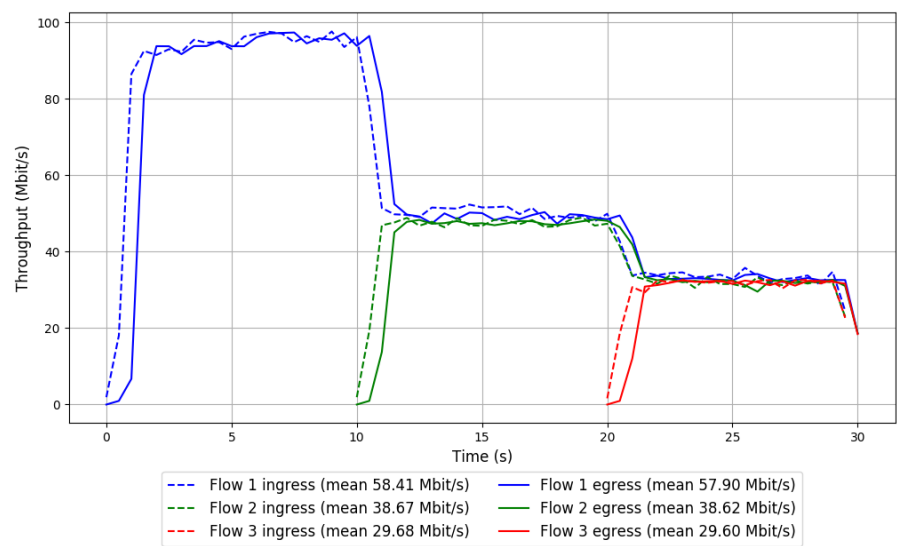
-- Flow 3:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 98.494 ms

Loss rate: 1.83%

Run 10: Report of Indigo — Data Link

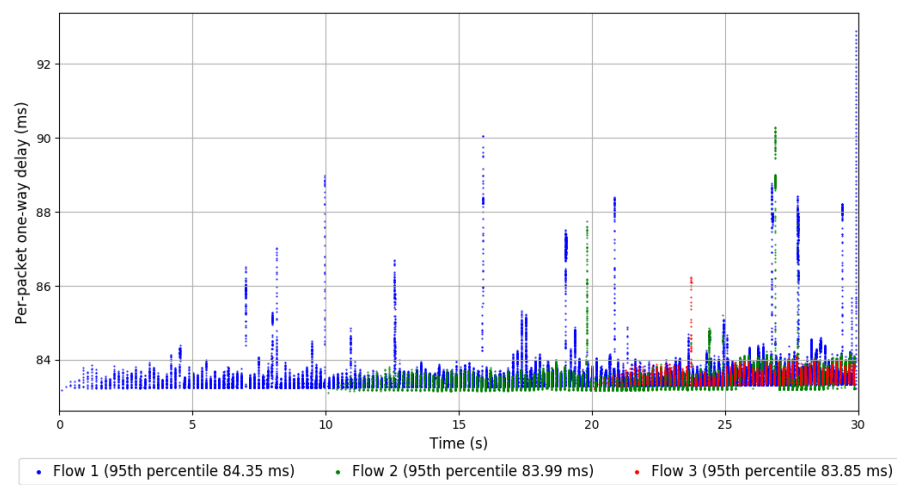
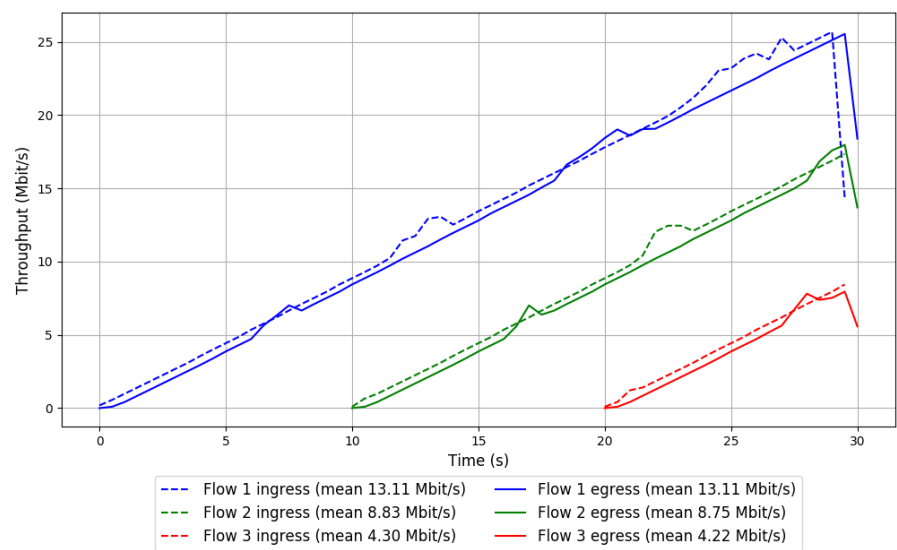


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-22 19:03:50
End at: 2018-08-22 19:04:20
Local clock offset: -4.266 ms
Remote clock offset: 1.586 ms

# Below is generated by plot.py at 2018-08-22 22:42:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 84.137 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 84.346 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 83.987 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 83.847 ms
Loss rate: 3.37%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-22 19:24:55

End at: 2018-08-22 19:25:25

Local clock offset: -4.27 ms

Remote clock offset: 8.044 ms

Below is generated by plot.py at 2018-08-22 22:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.23 Mbit/s

95th percentile per-packet one-way delay: 84.001 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 84.584 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.78 Mbit/s

95th percentile per-packet one-way delay: 81.667 ms

Loss rate: 1.65%

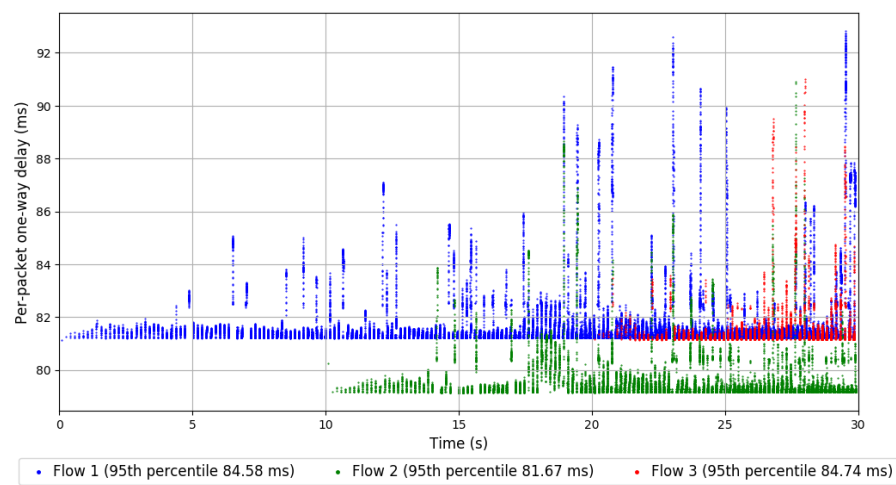
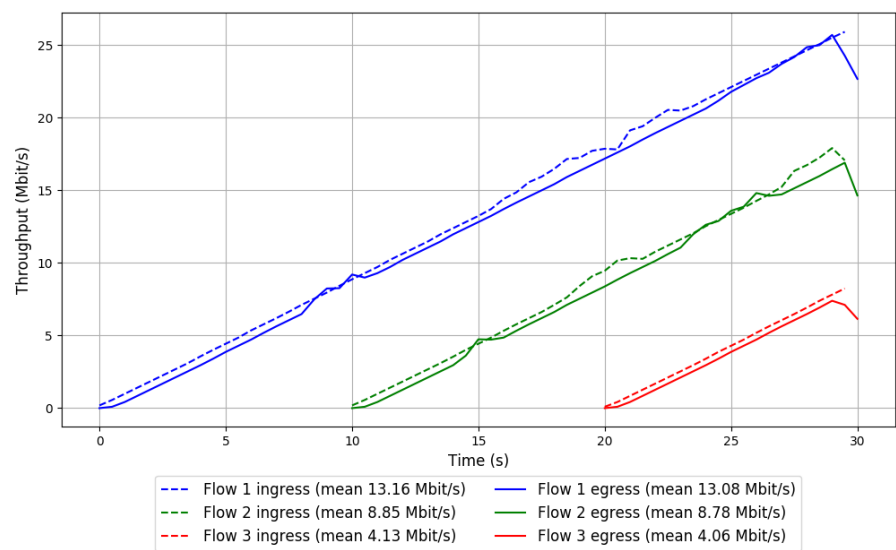
-- Flow 3:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 84.742 ms

Loss rate: 3.41%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-22 19:46:14

End at: 2018-08-22 19:46:44

Local clock offset: -6.623 ms

Remote clock offset: 3.501 ms

Below is generated by plot.py at 2018-08-22 22:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.41 Mbit/s

95th percentile per-packet one-way delay: 84.690 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 85.076 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 84.261 ms

Loss rate: 1.65%

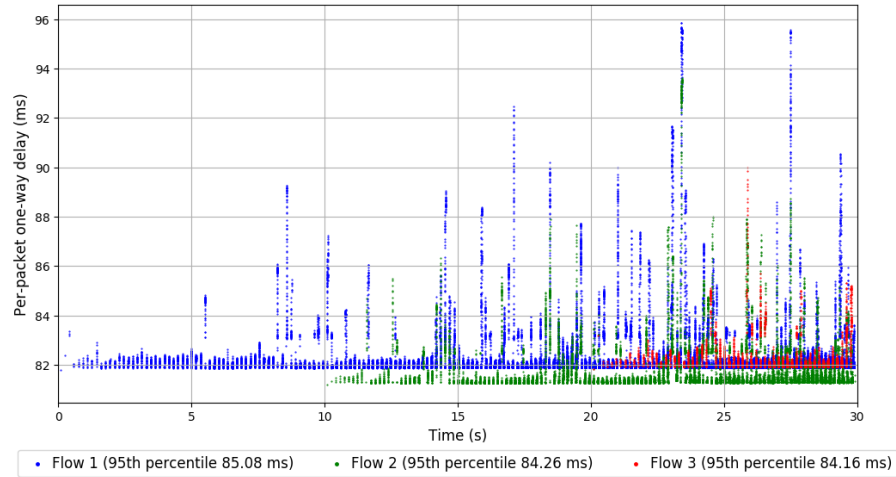
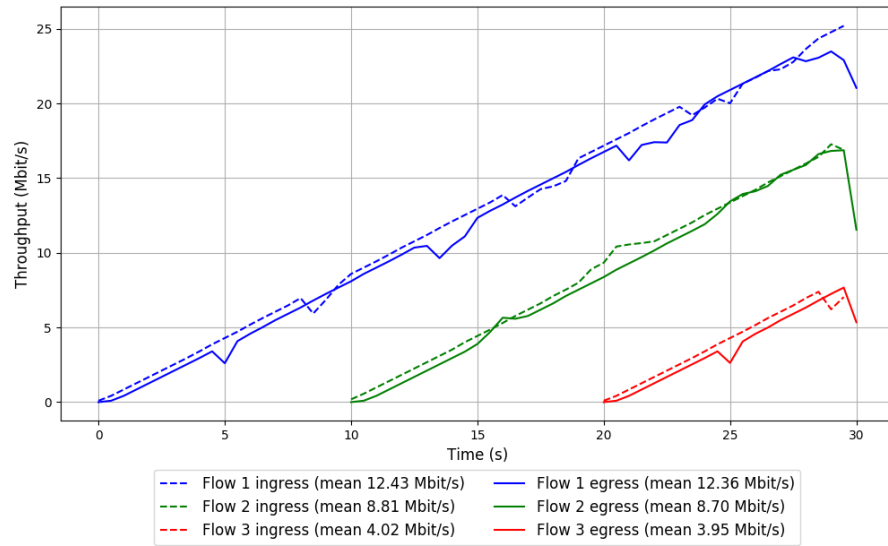
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 84.157 ms

Loss rate: 3.47%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-22 20:07:19

End at: 2018-08-22 20:07:49

Local clock offset: -8.581 ms

Remote clock offset: 6.448 ms

Below is generated by plot.py at 2018-08-22 22:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.11 Mbit/s

95th percentile per-packet one-way delay: 84.022 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 83.953 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 84.449 ms

Loss rate: 1.66%

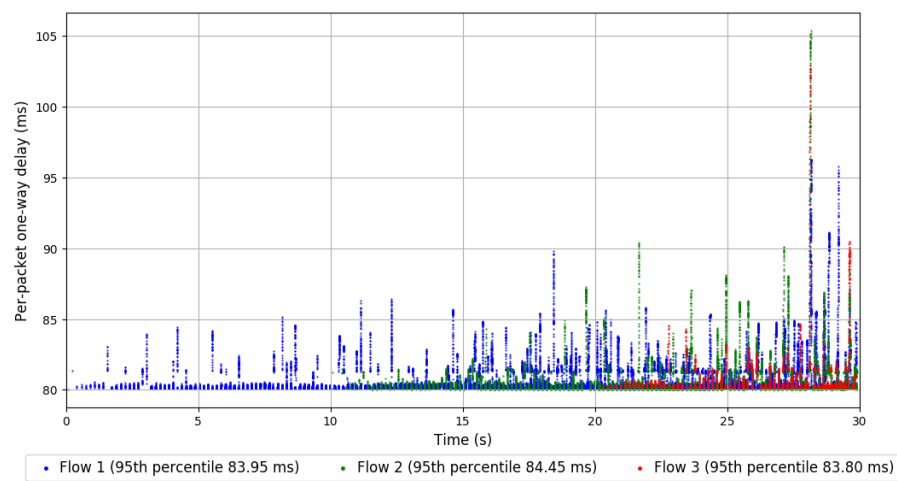
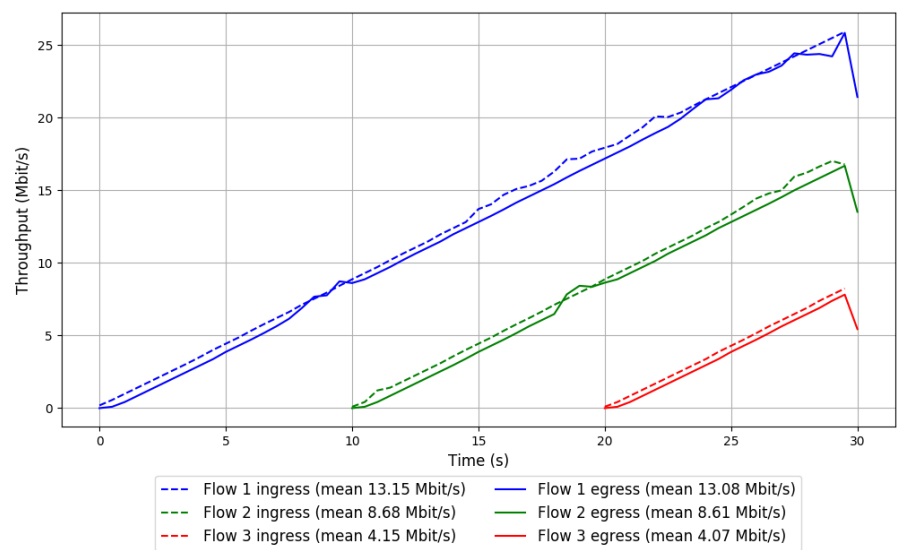
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 83.797 ms

Loss rate: 3.41%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-22 20:28:23

End at: 2018-08-22 20:28:53

Local clock offset: -9.885 ms

Remote clock offset: 3.649 ms

Below is generated by plot.py at 2018-08-22 22:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 85.904 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 86.074 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 84.495 ms

Loss rate: 1.66%

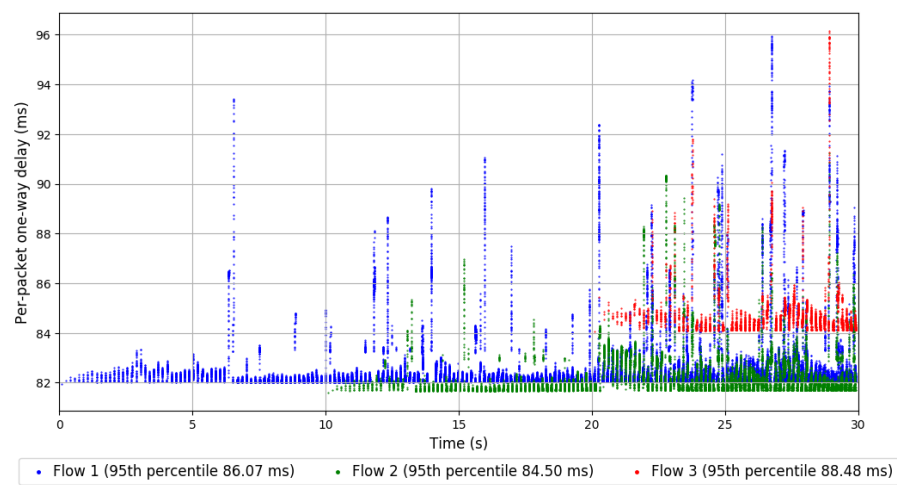
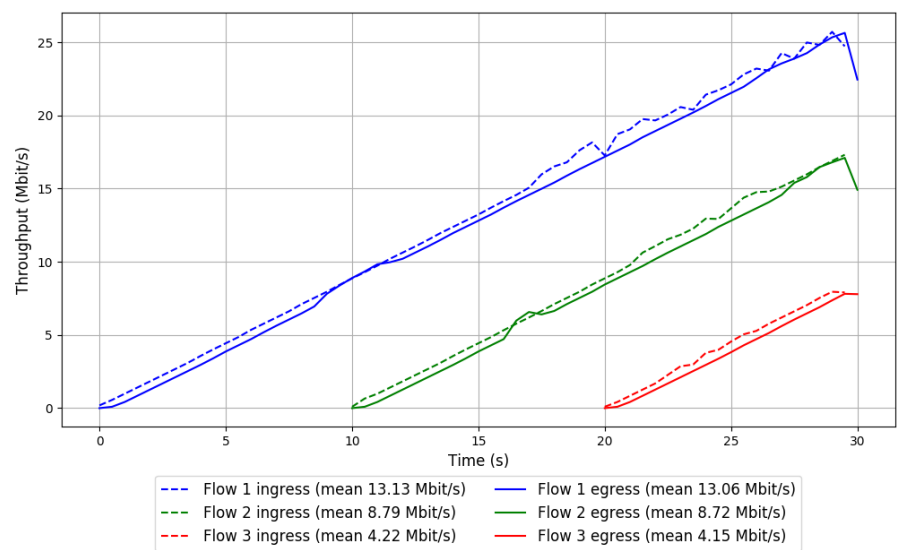
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 88.481 ms

Loss rate: 3.35%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-22 20:49:32

End at: 2018-08-22 20:50:02

Local clock offset: -9.951 ms

Remote clock offset: 3.503 ms

Below is generated by plot.py at 2018-08-22 22:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 80.288 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 80.913 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 79.609 ms

Loss rate: 1.56%

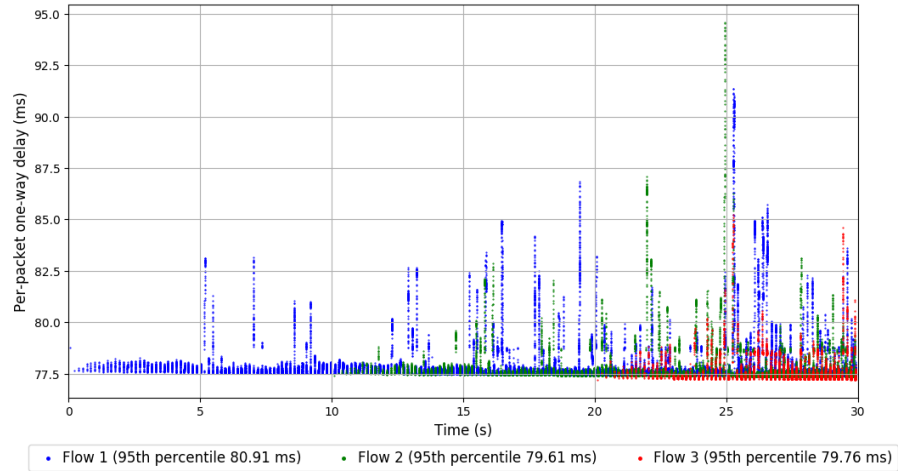
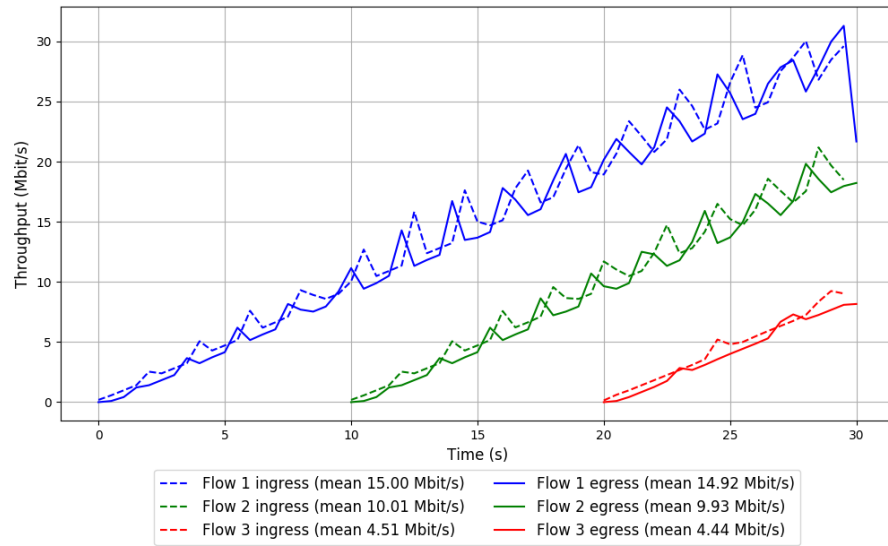
-- Flow 3:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 79.762 ms

Loss rate: 3.00%

Run 6: Report of LEDBAT — Data Link

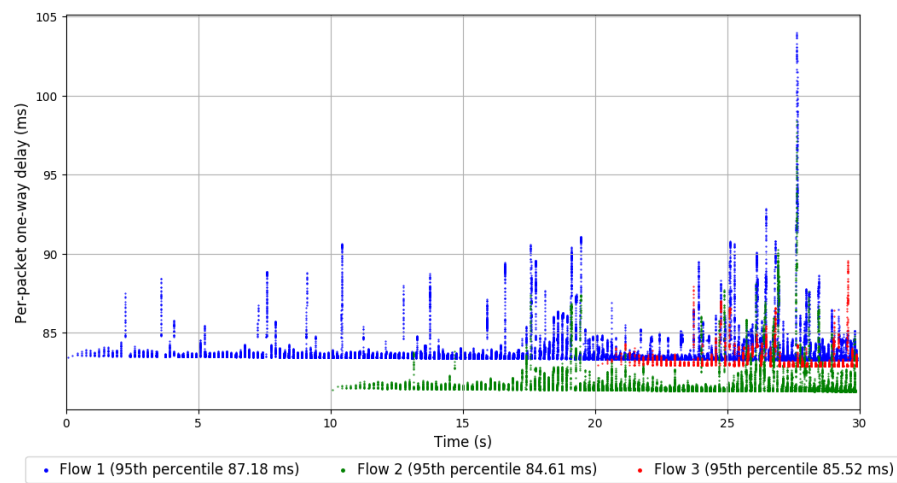
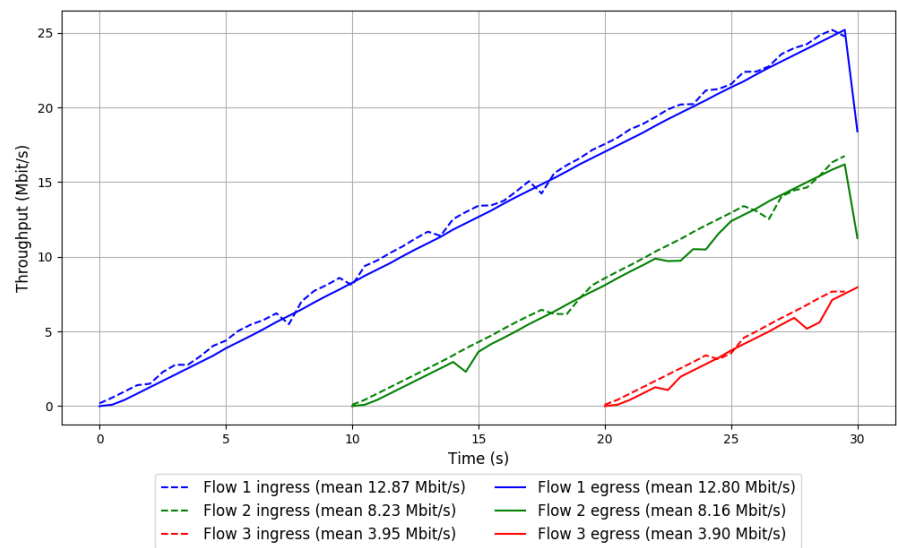


Run 7: Statistics of LEDBAT

Start at: 2018-08-22 21:10:33
End at: 2018-08-22 21:11:03
Local clock offset: -8.306 ms
Remote clock offset: -5.098 ms

Below is generated by plot.py at 2018-08-22 22:42:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.49 Mbit/s
95th percentile per-packet one-way delay: 86.376 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 87.176 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 84.610 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 85.523 ms
Loss rate: 2.95%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-22 21:31:47

End at: 2018-08-22 21:32:17

Local clock offset: -5.04 ms

Remote clock offset: 4.973 ms

Below is generated by plot.py at 2018-08-22 22:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 81.456 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 80.910 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 82.392 ms

Loss rate: 1.70%

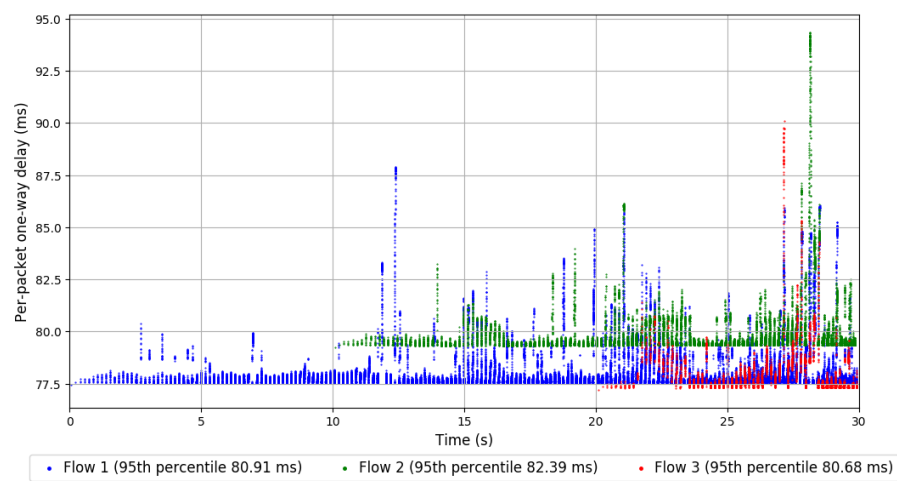
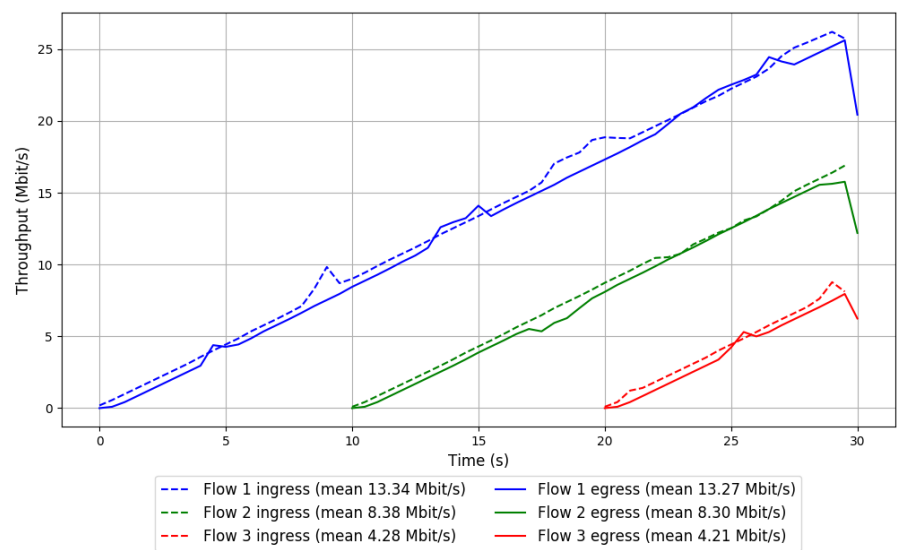
-- Flow 3:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 80.676 ms

Loss rate: 3.33%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-22 21:52:52

End at: 2018-08-22 21:53:22

Local clock offset: -4.178 ms

Remote clock offset: 4.911 ms

Below is generated by plot.py at 2018-08-22 22:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 79.390 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 14.27 Mbit/s

95th percentile per-packet one-way delay: 79.403 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 79.365 ms

Loss rate: 1.24%

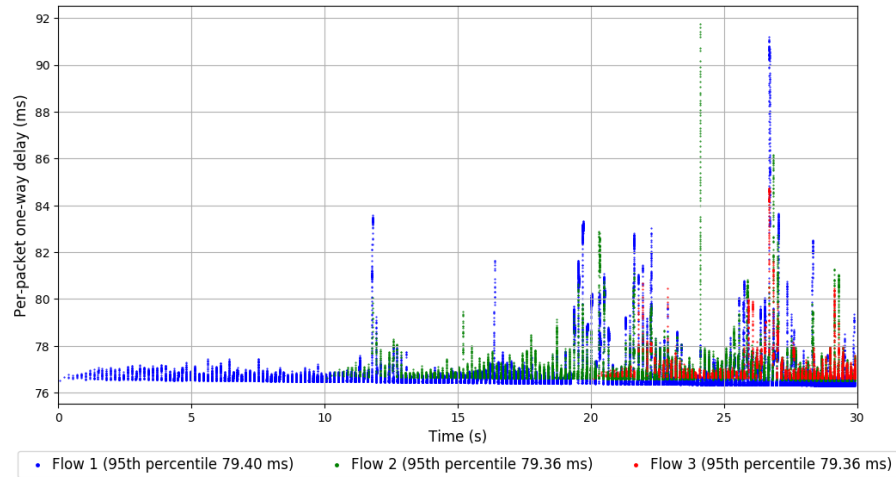
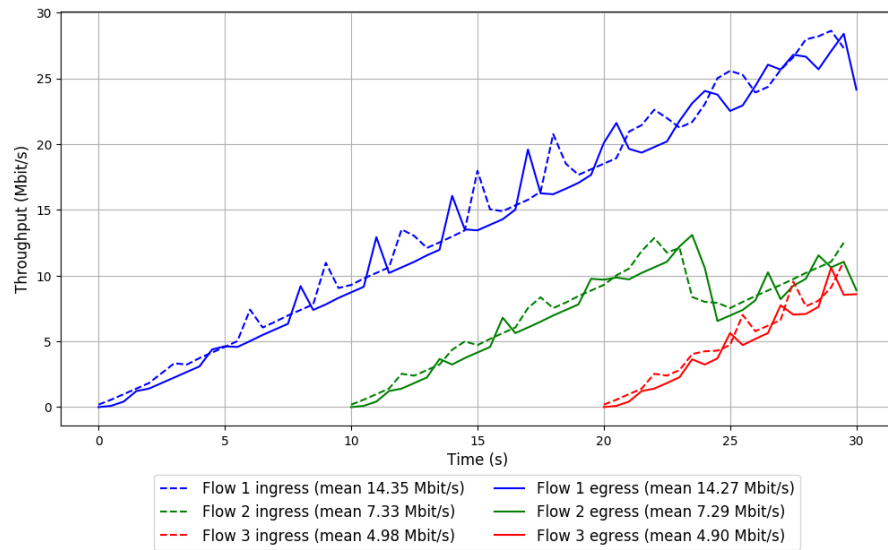
-- Flow 3:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 79.359 ms

Loss rate: 3.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-22 22:13:51

End at: 2018-08-22 22:14:21

Local clock offset: -5.77 ms

Remote clock offset: 0.858 ms

Below is generated by plot.py at 2018-08-22 22:42:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 78.415 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 78.576 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 78.367 ms

Loss rate: 1.39%

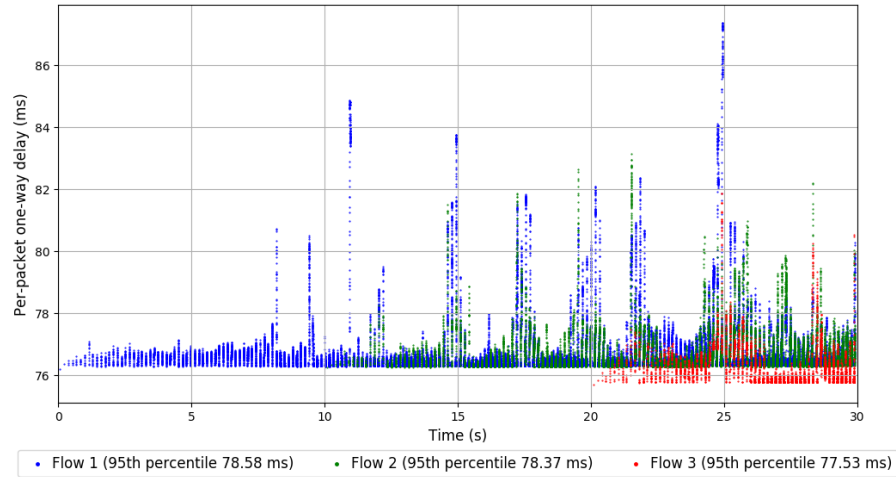
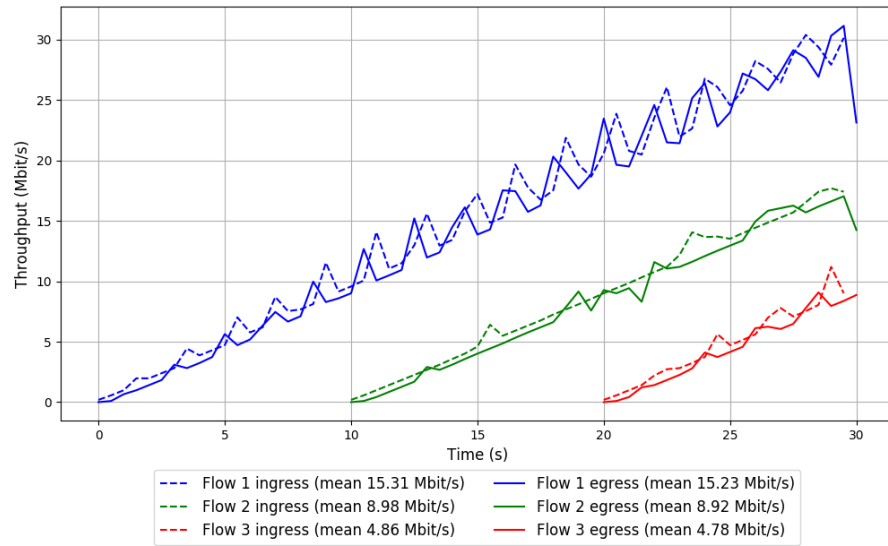
-- Flow 3:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 77.535 ms

Loss rate: 3.16%

Run 10: Report of LEDBAT — Data Link

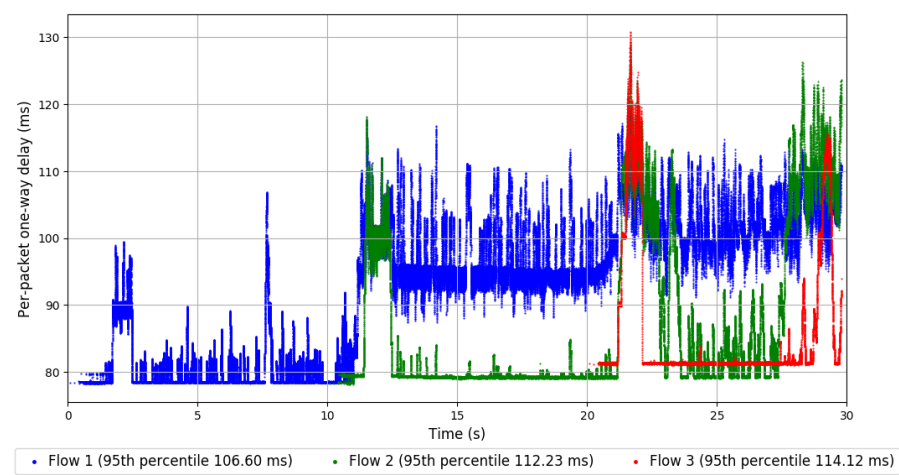
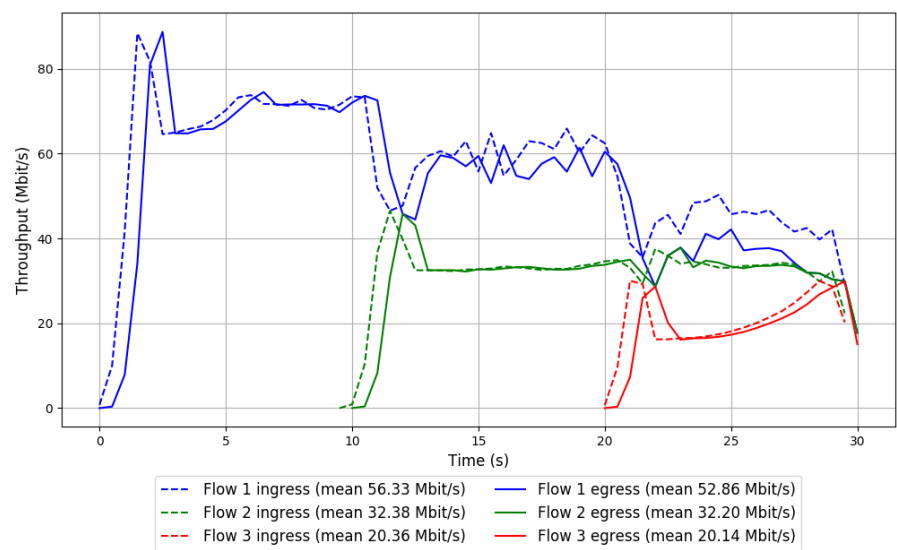


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-22 19:13:32
End at: 2018-08-22 19:14:02
Local clock offset: -4.938 ms
Remote clock offset: 6.988 ms

# Below is generated by plot.py at 2018-08-22 22:43:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.80 Mbit/s
95th percentile per-packet one-way delay: 108.964 ms
Loss rate: 5.00%
-- Flow 1:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 106.599 ms
Loss rate: 6.66%
-- Flow 2:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 112.228 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 20.14 Mbit/s
95th percentile per-packet one-way delay: 114.121 ms
Loss rate: 2.69%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-22 19:34:38

End at: 2018-08-22 19:35:08

Local clock offset: -5.165 ms

Remote clock offset: 5.382 ms

Below is generated by plot.py at 2018-08-22 22:43:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 117.366 ms

Loss rate: 6.70%

-- Flow 1:

Average throughput: 49.24 Mbit/s

95th percentile per-packet one-way delay: 112.290 ms

Loss rate: 7.10%

-- Flow 2:

Average throughput: 33.19 Mbit/s

95th percentile per-packet one-way delay: 118.982 ms

Loss rate: 4.60%

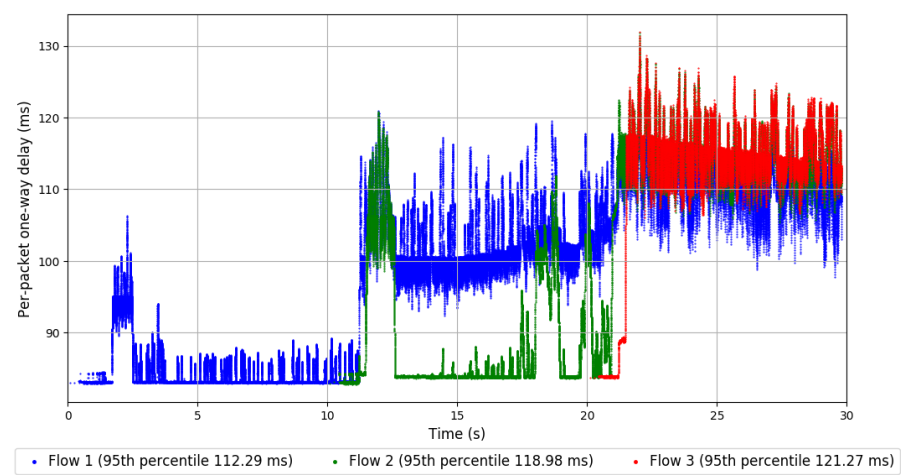
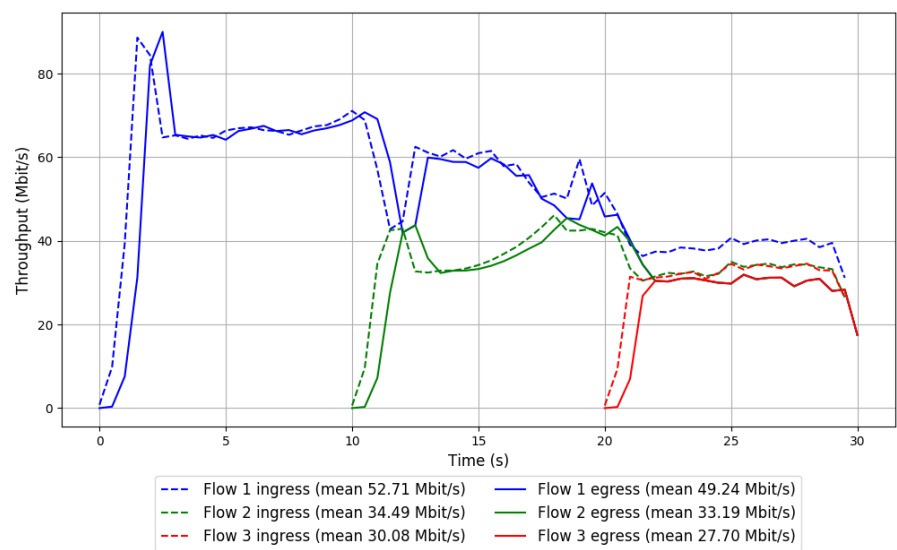
-- Flow 3:

Average throughput: 27.70 Mbit/s

95th percentile per-packet one-way delay: 121.268 ms

Loss rate: 9.47%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-22 19:55:57

End at: 2018-08-22 19:56:27

Local clock offset: -7.719 ms

Remote clock offset: 1.793 ms

Below is generated by plot.py at 2018-08-22 22:43:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 118.279 ms

Loss rate: 6.13%

-- Flow 1:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 113.221 ms

Loss rate: 6.67%

-- Flow 2:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 120.411 ms

Loss rate: 4.32%

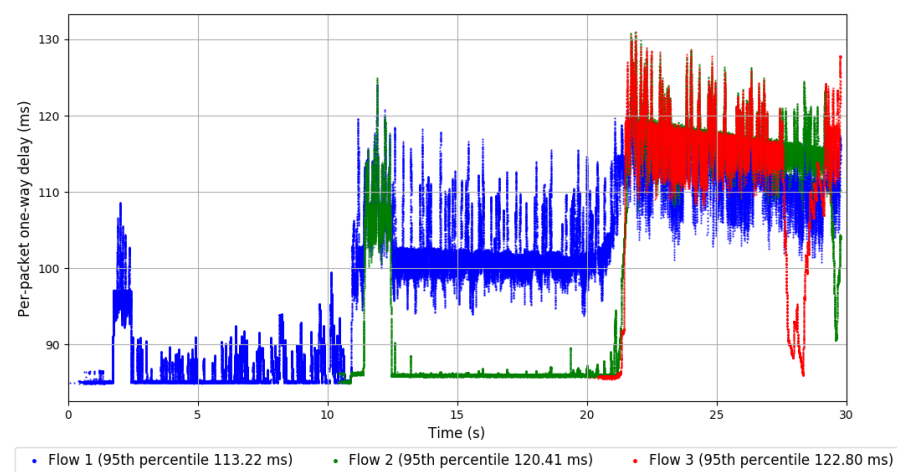
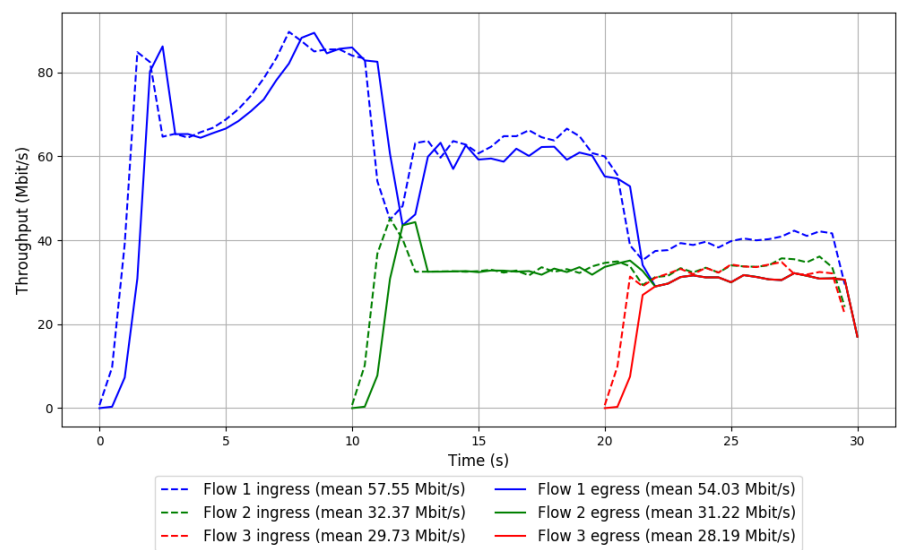
-- Flow 3:

Average throughput: 28.19 Mbit/s

95th percentile per-packet one-way delay: 122.798 ms

Loss rate: 6.90%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-22 20:17:01

End at: 2018-08-22 20:17:31

Local clock offset: -9.966 ms

Remote clock offset: 3.276 ms

Below is generated by plot.py at 2018-08-22 22:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.51 Mbit/s

95th percentile per-packet one-way delay: 113.095 ms

Loss rate: 5.86%

-- Flow 1:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 111.136 ms

Loss rate: 6.86%

-- Flow 2:

Average throughput: 33.80 Mbit/s

95th percentile per-packet one-way delay: 114.086 ms

Loss rate: 3.97%

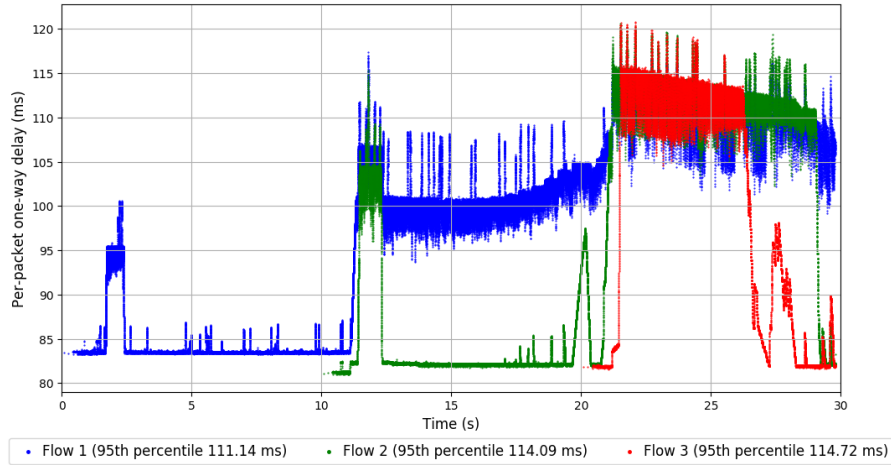
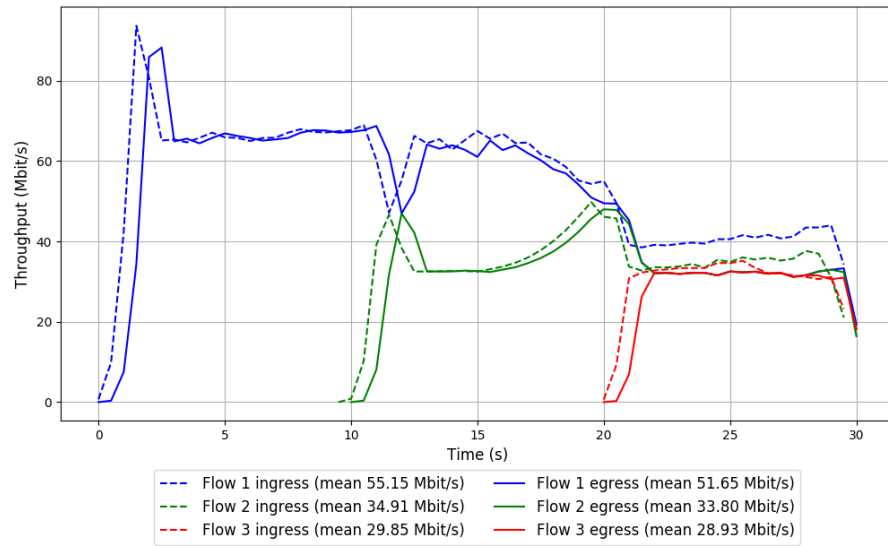
-- Flow 3:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 114.723 ms

Loss rate: 4.70%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-22 20:38:04

End at: 2018-08-22 20:38:34

Local clock offset: -9.501 ms

Remote clock offset: 7.495 ms

Below is generated by plot.py at 2018-08-22 22:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.53 Mbit/s

95th percentile per-packet one-way delay: 112.301 ms

Loss rate: 6.31%

-- Flow 1:

Average throughput: 52.41 Mbit/s

95th percentile per-packet one-way delay: 106.407 ms

Loss rate: 6.97%

-- Flow 2:

Average throughput: 31.44 Mbit/s

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

Loss rate: 3.76%

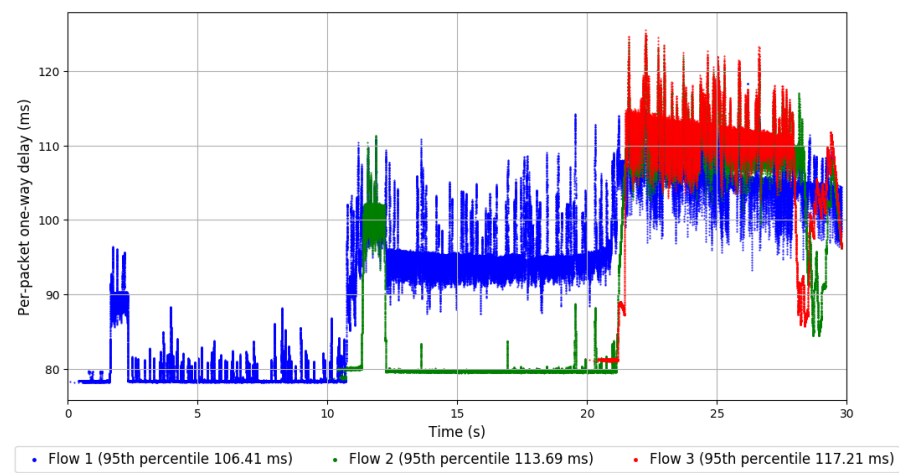
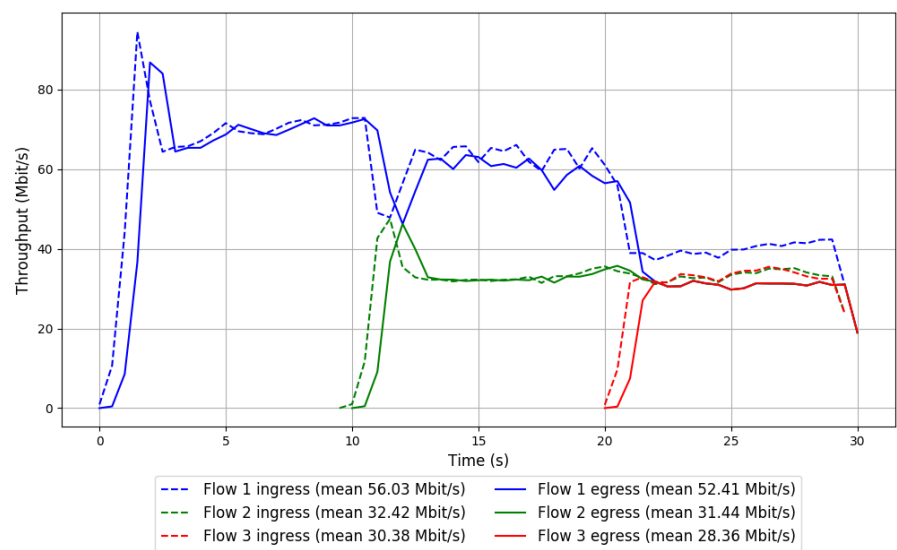
-- Flow 3:

Average throughput: 28.36 Mbit/s

95th percentile per-packet one-way delay: 117.207 ms

Loss rate: 8.12%

Run 5: Report of PCC-Allegro — Data Link

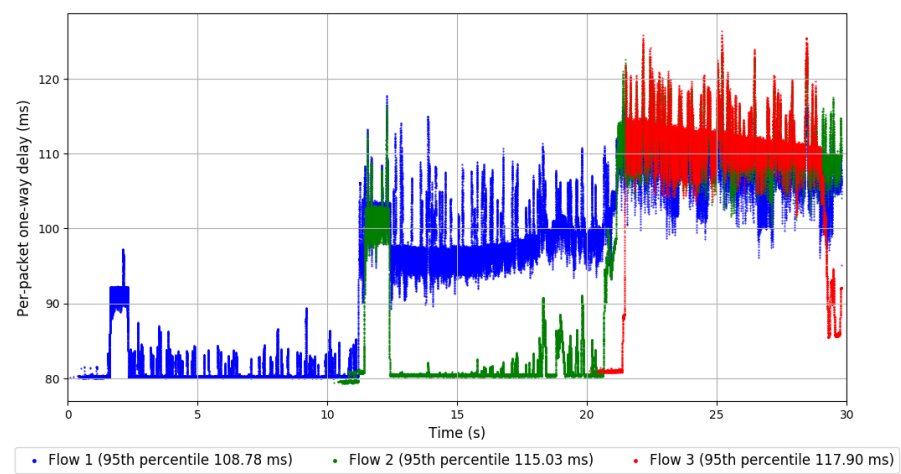
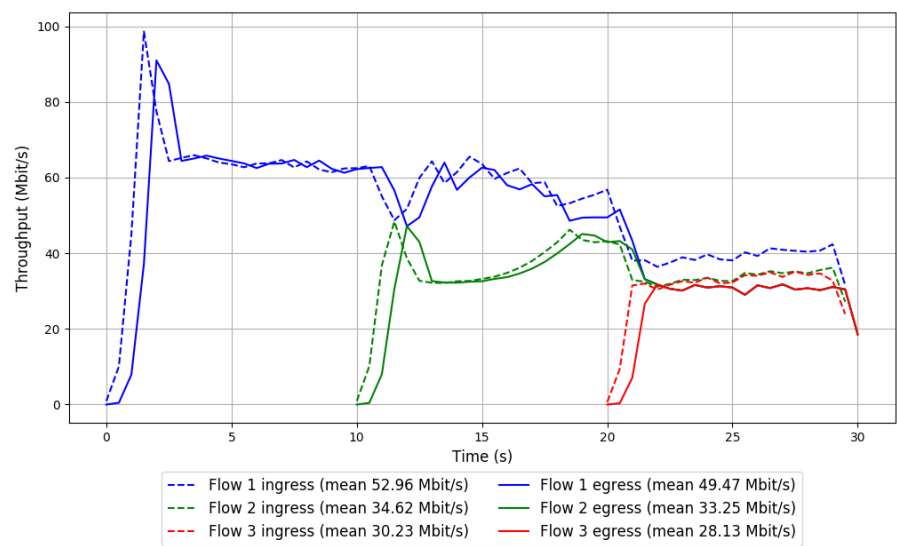


Run 6: Statistics of PCC-Allegro

Start at: 2018-08-22 20:59:12
End at: 2018-08-22 20:59:42
Local clock offset: -10.028 ms
Remote clock offset: 0.637 ms

Below is generated by plot.py at 2018-08-22 22:43:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.71 Mbit/s
95th percentile per-packet one-way delay: 113.388 ms
Loss rate: 6.60%
-- Flow 1:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 108.780 ms
Loss rate: 7.08%
-- Flow 2:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 115.035 ms
Loss rate: 4.71%
-- Flow 3:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 117.901 ms
Loss rate: 8.40%

Run 6: Report of PCC-Allegro — Data Link

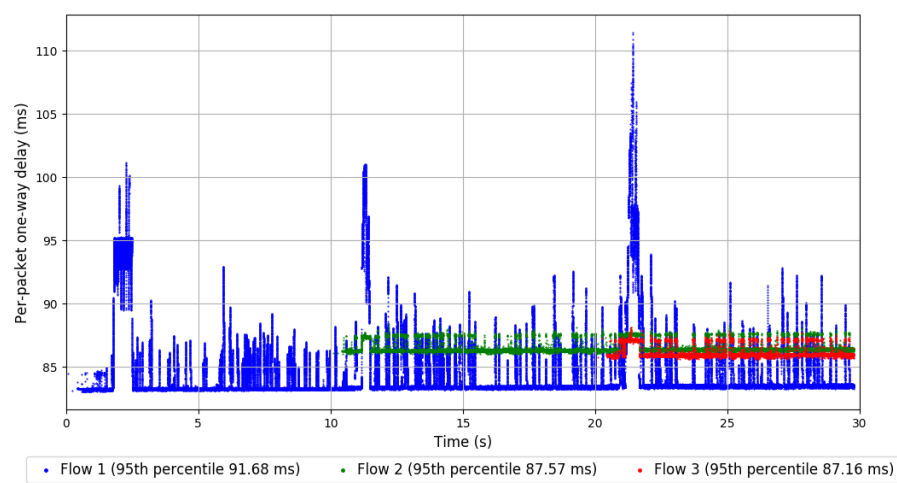
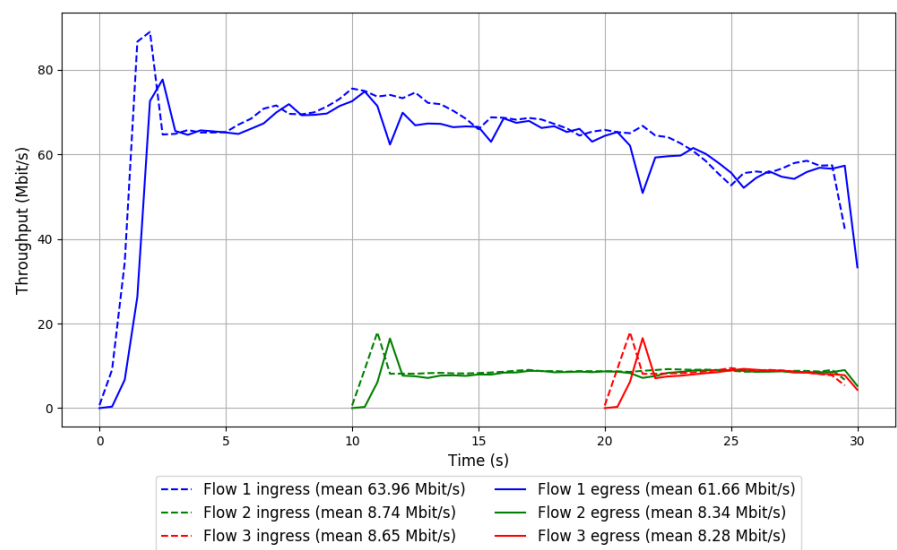


Run 7: Statistics of PCC-Allegro

Start at: 2018-08-22 21:20:14
End at: 2018-08-22 21:20:44
Local clock offset: -4.827 ms
Remote clock offset: -3.878 ms

Below is generated by plot.py at 2018-08-22 22:43:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.89 Mbit/s
95th percentile per-packet one-way delay: 90.170 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 61.66 Mbit/s
95th percentile per-packet one-way delay: 91.682 ms
Loss rate: 4.12%
-- Flow 2:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 87.568 ms
Loss rate: 5.34%
-- Flow 3:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 87.163 ms
Loss rate: 5.87%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-22 21:41:29

End at: 2018-08-22 21:41:59

Local clock offset: -4.523 ms

Remote clock offset: 2.208 ms

Below is generated by plot.py at 2018-08-22 22:43:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 113.300 ms

Loss rate: 6.37%

-- Flow 1:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 107.652 ms

Loss rate: 6.94%

-- Flow 2:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 113.416 ms

Loss rate: 5.13%

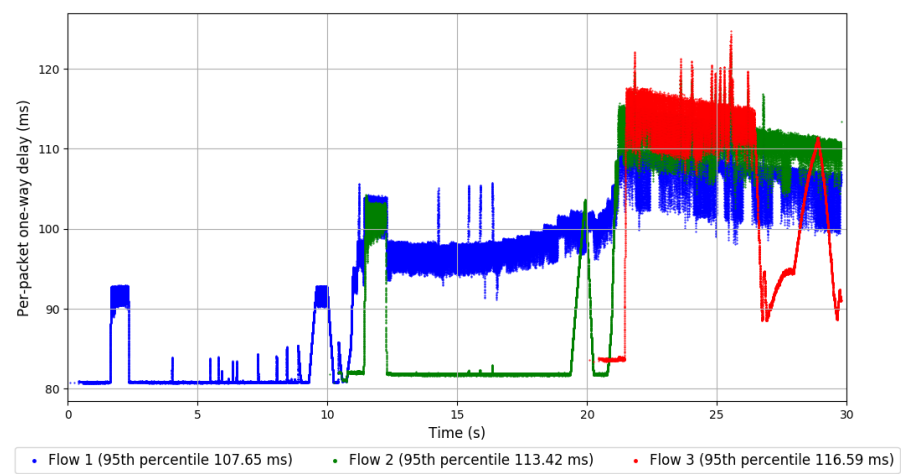
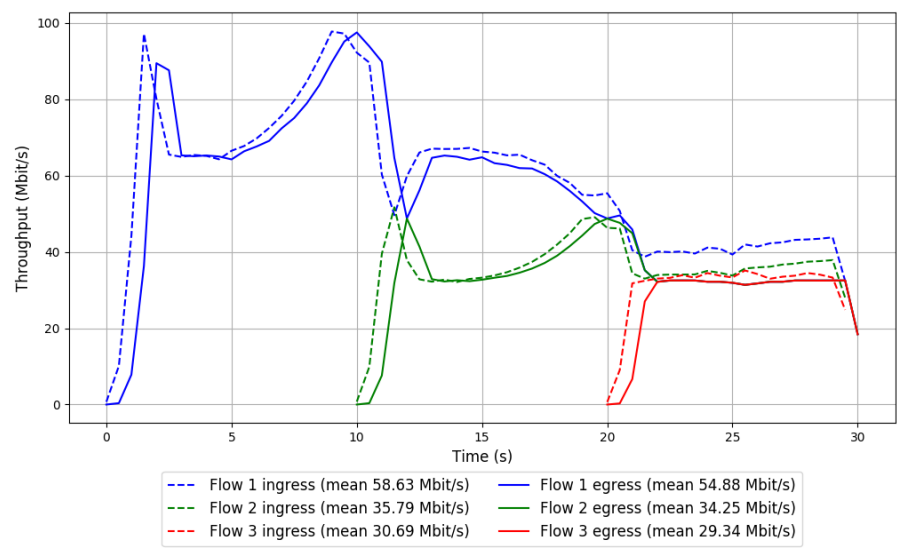
-- Flow 3:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 116.590 ms

Loss rate: 6.04%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-22 22:02:31

End at: 2018-08-22 22:03:01

Local clock offset: -2.188 ms

Remote clock offset: 1.344 ms

Below is generated by plot.py at 2018-08-22 22:44:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 110.579 ms

Loss rate: 6.02%

-- Flow 1:

Average throughput: 52.31 Mbit/s

95th percentile per-packet one-way delay: 108.349 ms

Loss rate: 6.72%

-- Flow 2:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 110.859 ms

Loss rate: 4.80%

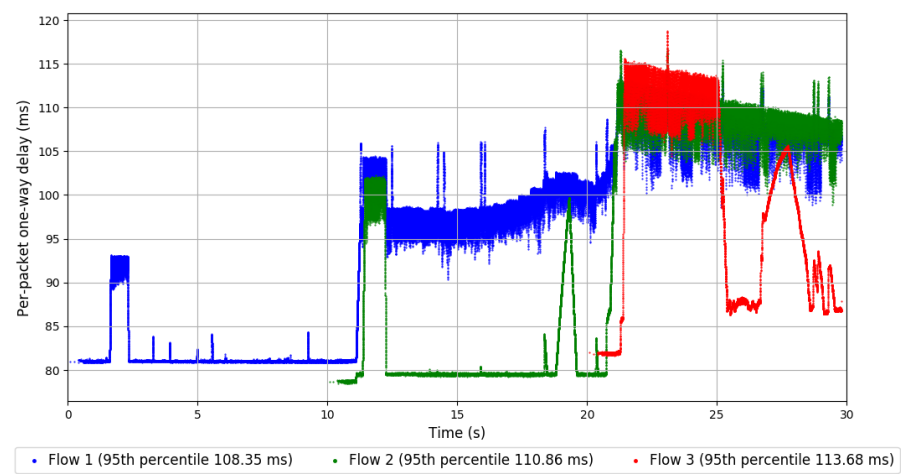
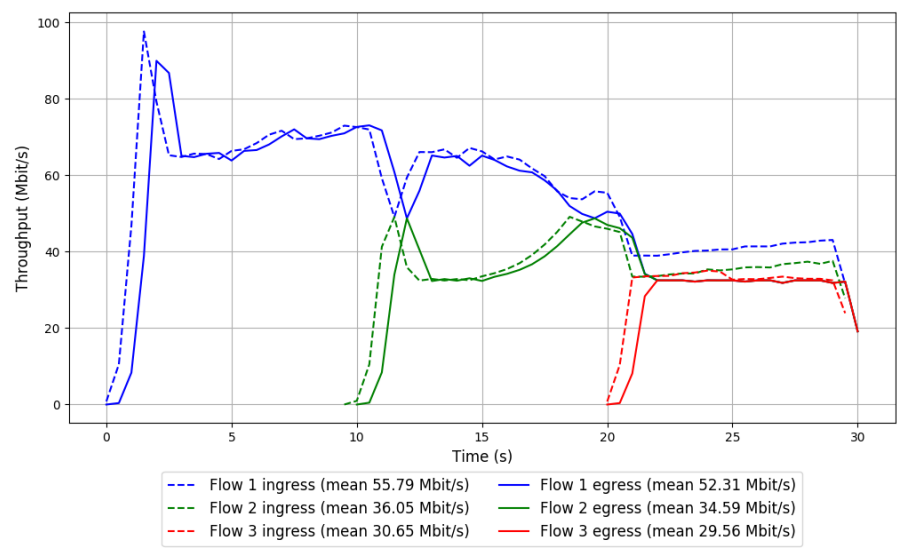
-- Flow 3:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 113.681 ms

Loss rate: 5.07%

Run 9: Report of PCC-Allegro — Data Link

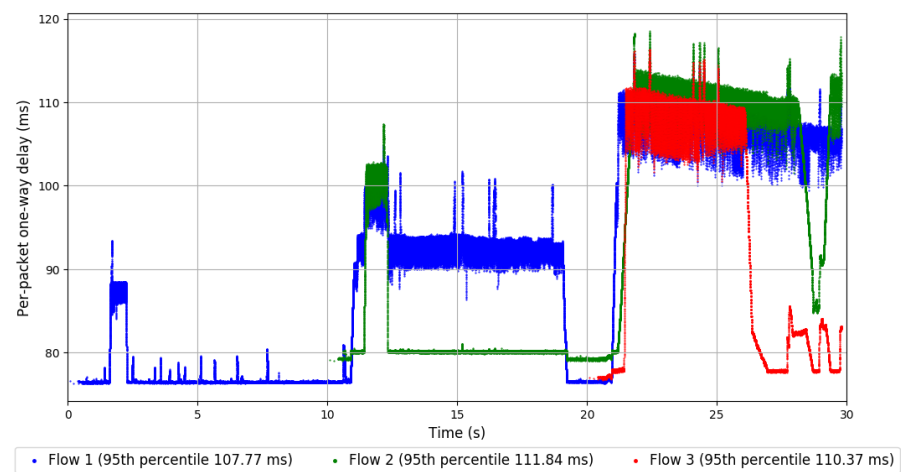
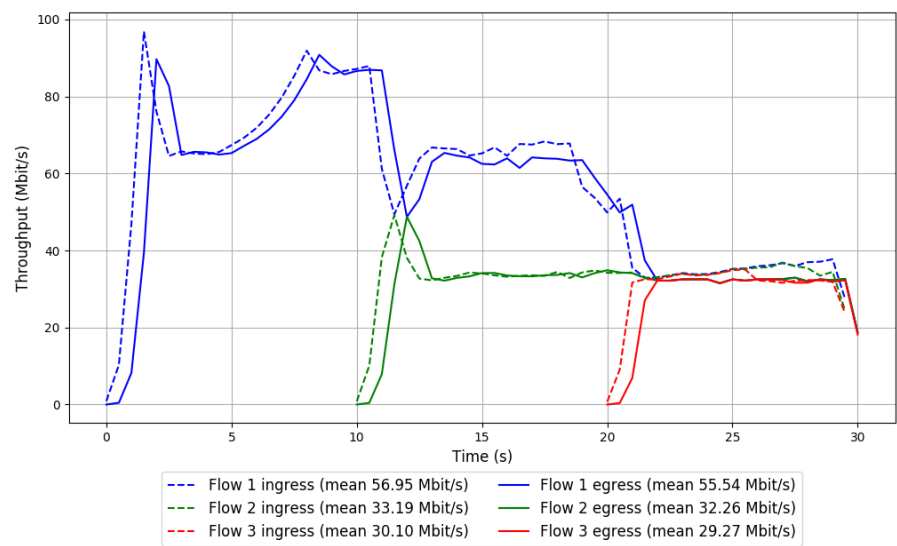


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-22 22:23:30
End at: 2018-08-22 22:24:00
Local clock offset: -6.242 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-08-22 22:44:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 110.137 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 107.768 ms
Loss rate: 2.98%
-- Flow 2:
Average throughput: 32.26 Mbit/s
95th percentile per-packet one-way delay: 111.839 ms
Loss rate: 3.60%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 110.372 ms
Loss rate: 4.29%

Run 10: Report of PCC-Allegro — Data Link

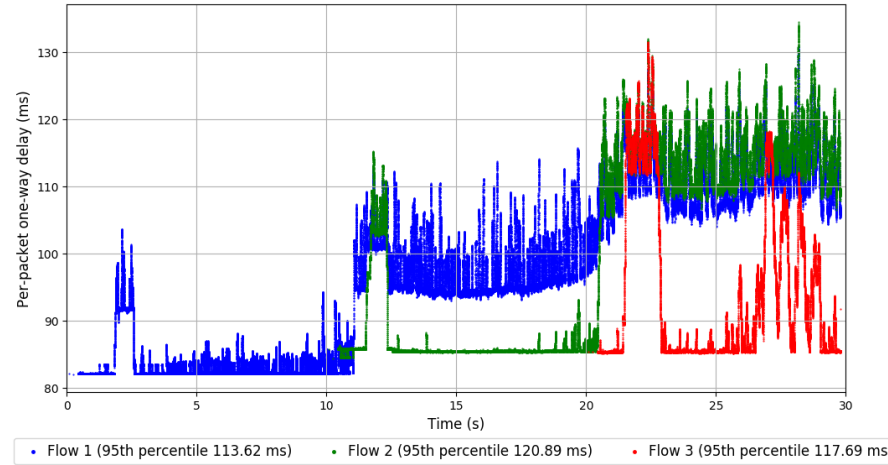
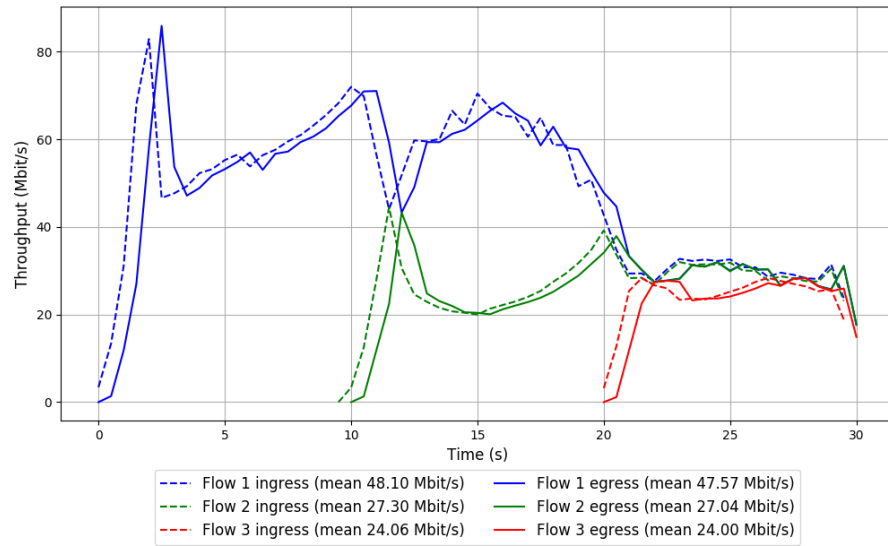


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-22 19:00:03
End at: 2018-08-22 19:00:33
Local clock offset: -5.165 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-08-22 22:45:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.34 Mbit/s
95th percentile per-packet one-way delay: 117.281 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 47.57 Mbit/s
95th percentile per-packet one-way delay: 113.619 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 120.892 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 117.688 ms
Loss rate: 1.86%
```

Run 1: Report of PCC-Expr — Data Link

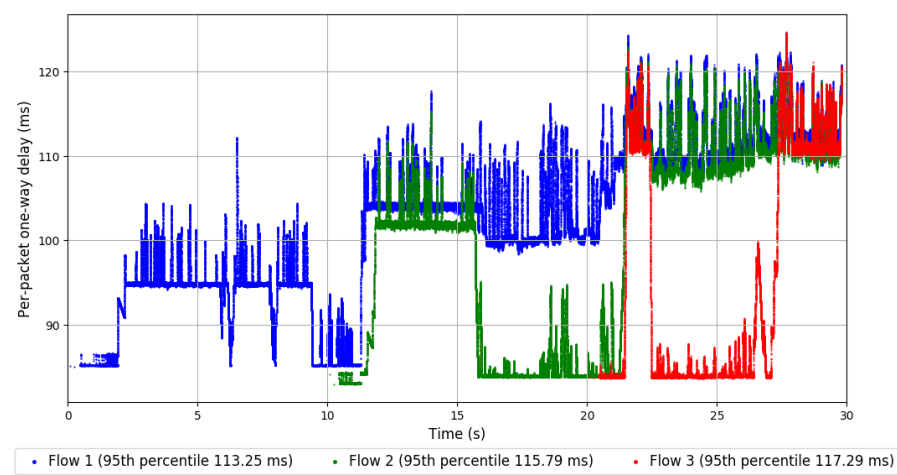
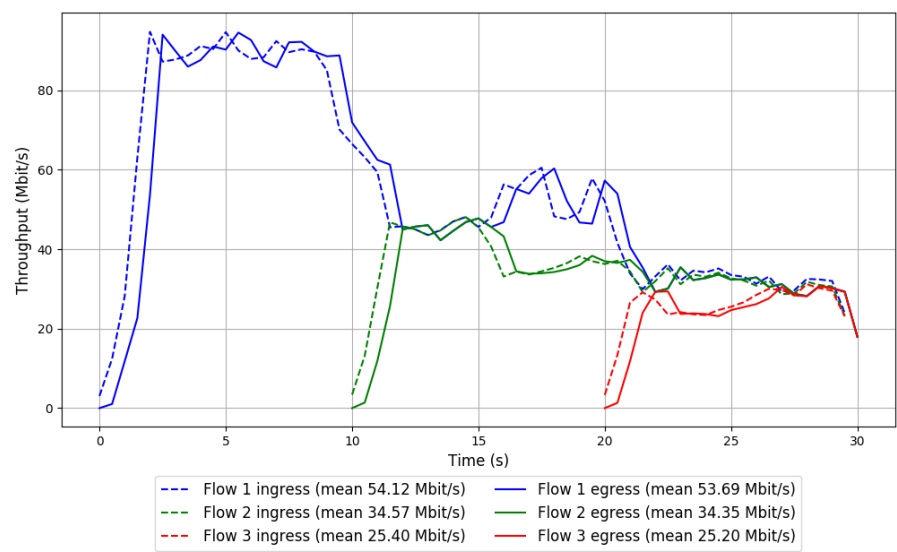


```
Run 2: Statistics of PCC-Expr

Start at: 2018-08-22 19:21:07
End at: 2018-08-22 19:21:37
Local clock offset: -4.144 ms
Remote clock offset: 4.047 ms

# Below is generated by plot.py at 2018-08-22 22:45:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 115.112 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 53.69 Mbit/s
95th percentile per-packet one-way delay: 113.245 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 115.794 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 25.20 Mbit/s
95th percentile per-packet one-way delay: 117.291 ms
Loss rate: 2.56%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-22 19:42:15

End at: 2018-08-22 19:42:45

Local clock offset: -6.719 ms

Remote clock offset: 7.735 ms

Below is generated by plot.py at 2018-08-22 22:45:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.66 Mbit/s

95th percentile per-packet one-way delay: 89.648 ms

Loss rate: 9.45%

-- Flow 1:

Average throughput: 62.71 Mbit/s

95th percentile per-packet one-way delay: 90.296 ms

Loss rate: 9.60%

-- Flow 2:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 80.725 ms

Loss rate: 9.77%

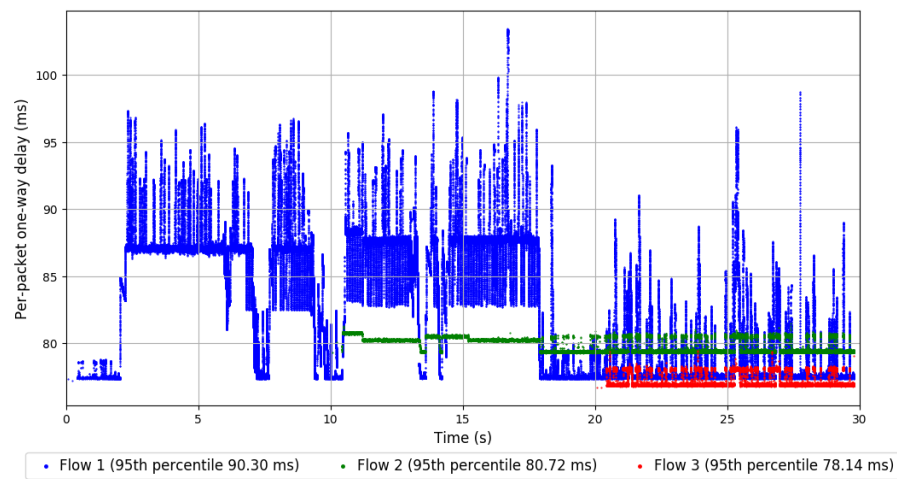
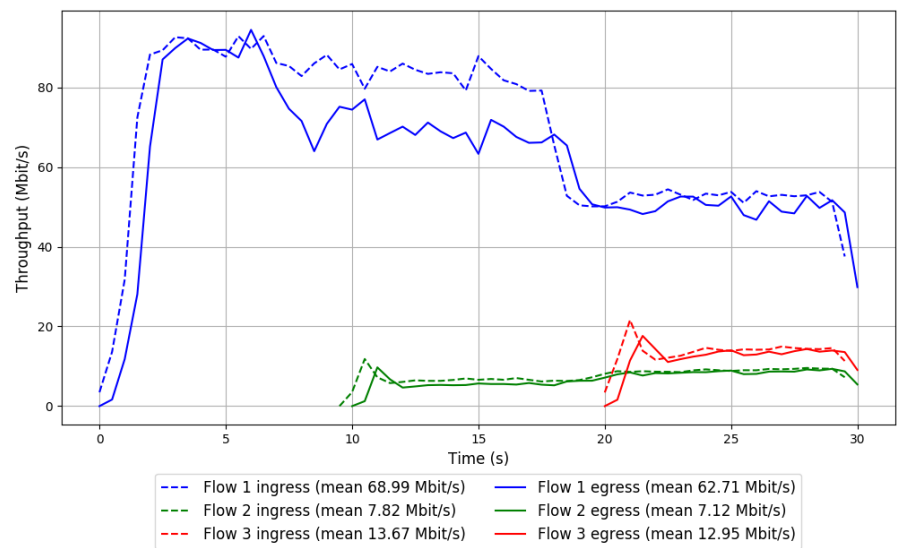
-- Flow 3:

Average throughput: 12.95 Mbit/s

95th percentile per-packet one-way delay: 78.142 ms

Loss rate: 6.84%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-22 20:03:32

End at: 2018-08-22 20:04:02

Local clock offset: -8.38 ms

Remote clock offset: 2.729 ms

Below is generated by plot.py at 2018-08-22 22:45:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 116.405 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 114.839 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 29.93 Mbit/s

95th percentile per-packet one-way delay: 118.665 ms

Loss rate: 1.20%

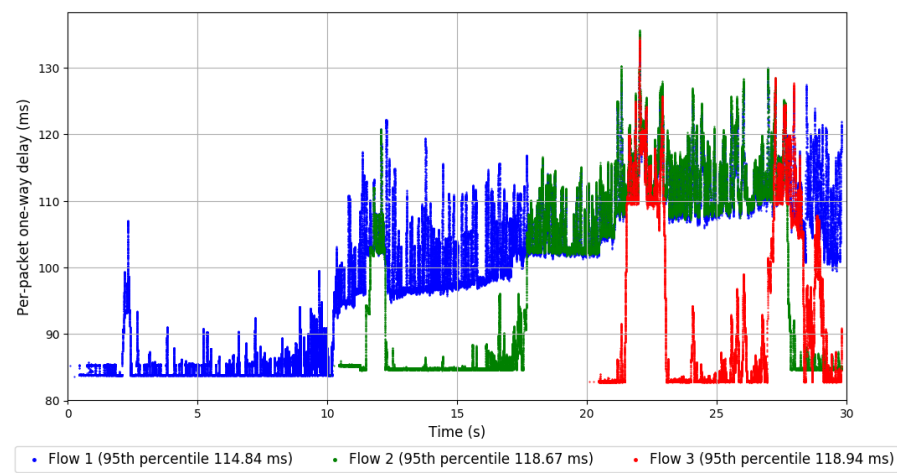
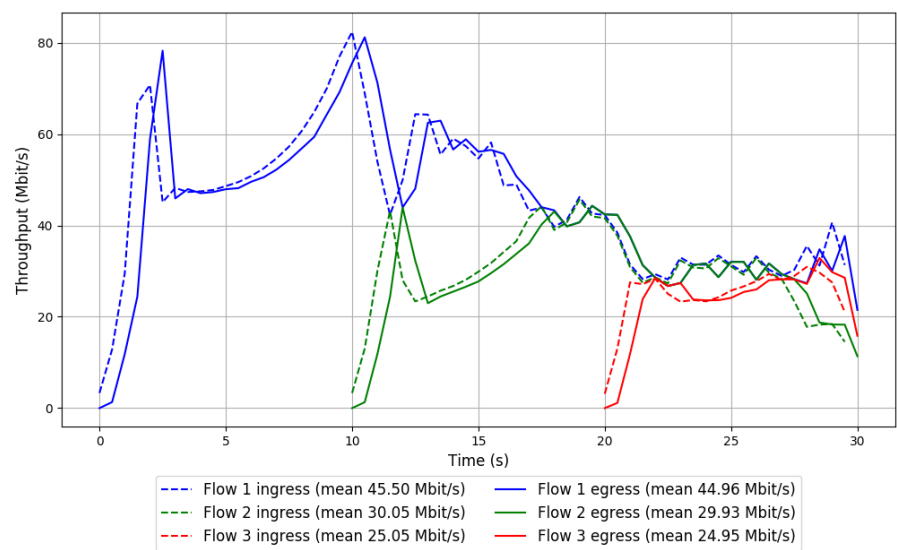
-- Flow 3:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 118.935 ms

Loss rate: 2.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-22 20:24:36

End at: 2018-08-22 20:25:06

Local clock offset: -9.642 ms

Remote clock offset: 8.443 ms

Below is generated by plot.py at 2018-08-22 22:45:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.19 Mbit/s

95th percentile per-packet one-way delay: 109.663 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 105.538 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 112.274 ms

Loss rate: 1.54%

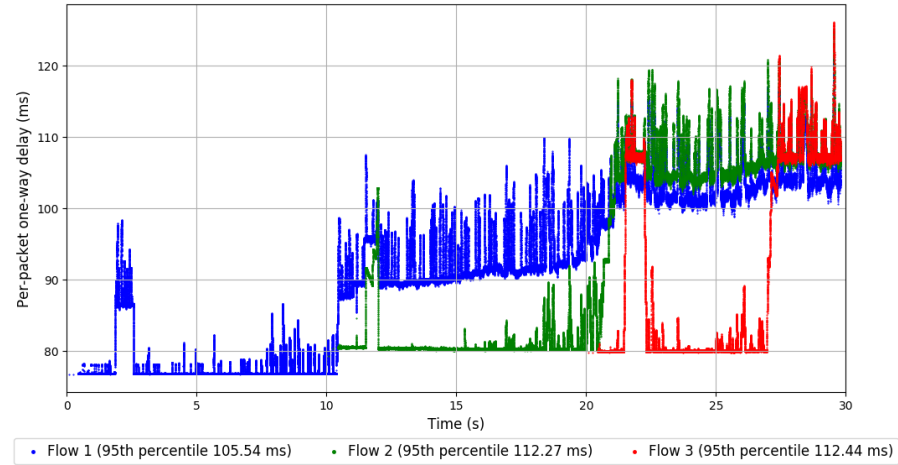
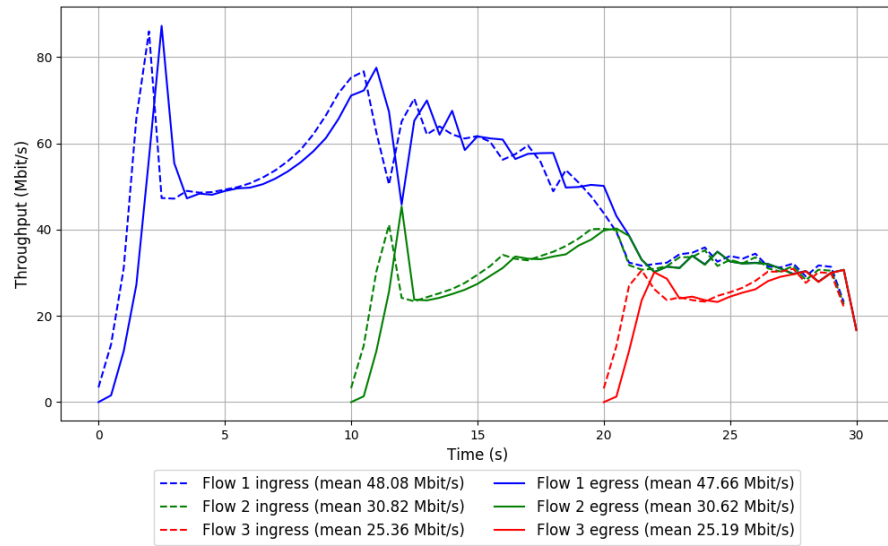
-- Flow 3:

Average throughput: 25.19 Mbit/s

95th percentile per-packet one-way delay: 112.443 ms

Loss rate: 2.31%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-22 20:45:36

End at: 2018-08-22 20:46:06

Local clock offset: -9.903 ms

Remote clock offset: 5.326 ms

Below is generated by plot.py at 2018-08-22 22:45:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.67 Mbit/s

95th percentile per-packet one-way delay: 106.512 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 44.22 Mbit/s

95th percentile per-packet one-way delay: 105.610 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 33.45 Mbit/s

95th percentile per-packet one-way delay: 108.476 ms

Loss rate: 1.95%

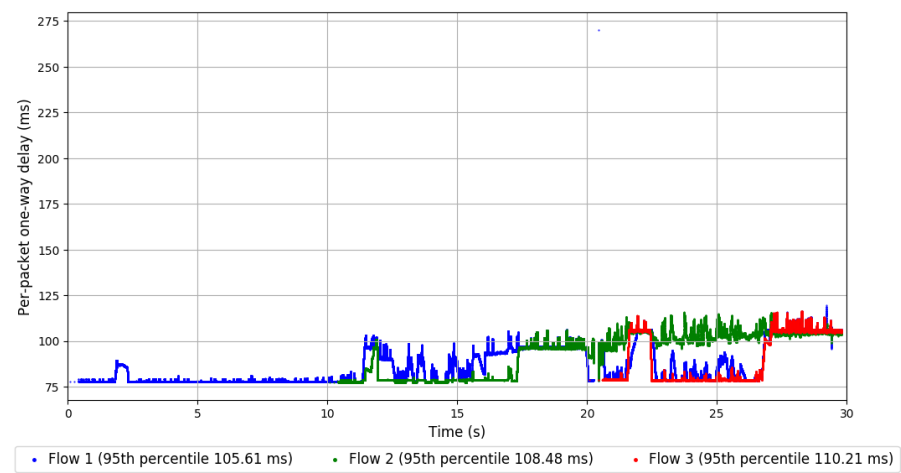
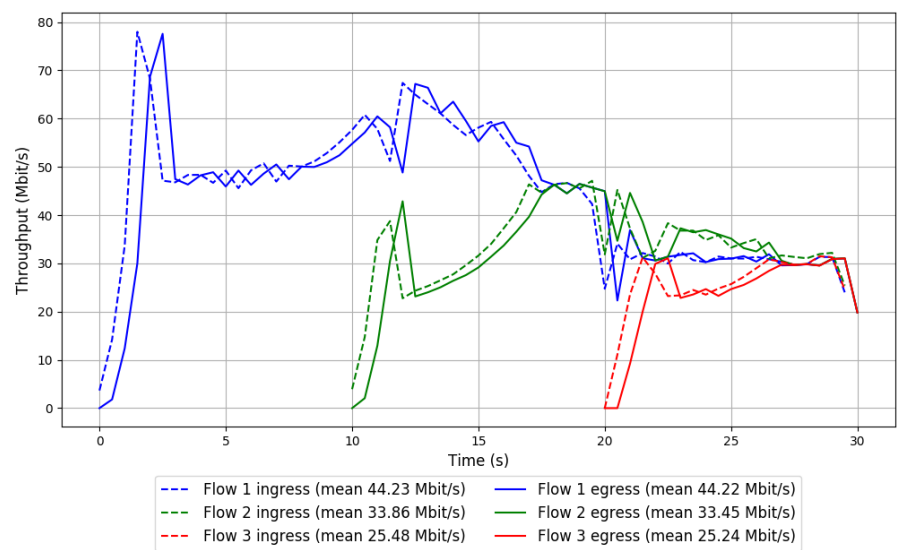
-- Flow 3:

Average throughput: 25.24 Mbit/s

95th percentile per-packet one-way delay: 110.214 ms

Loss rate: 2.49%

Run 6: Report of PCC-Expr — Data Link

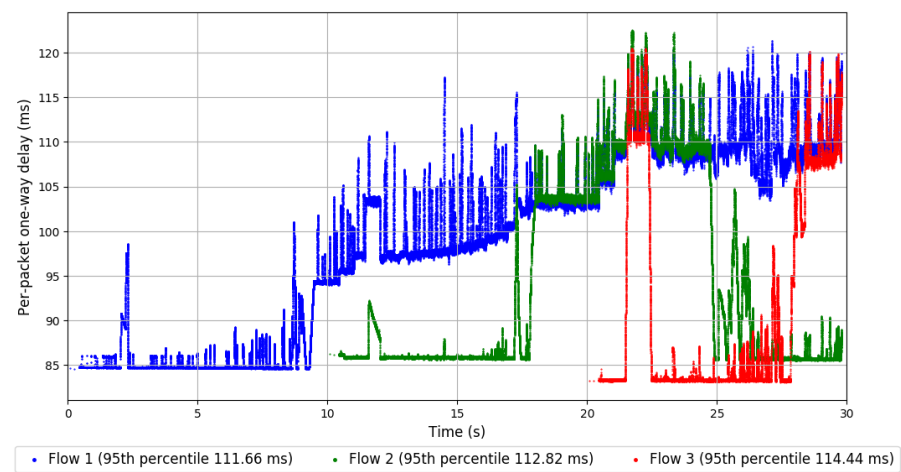
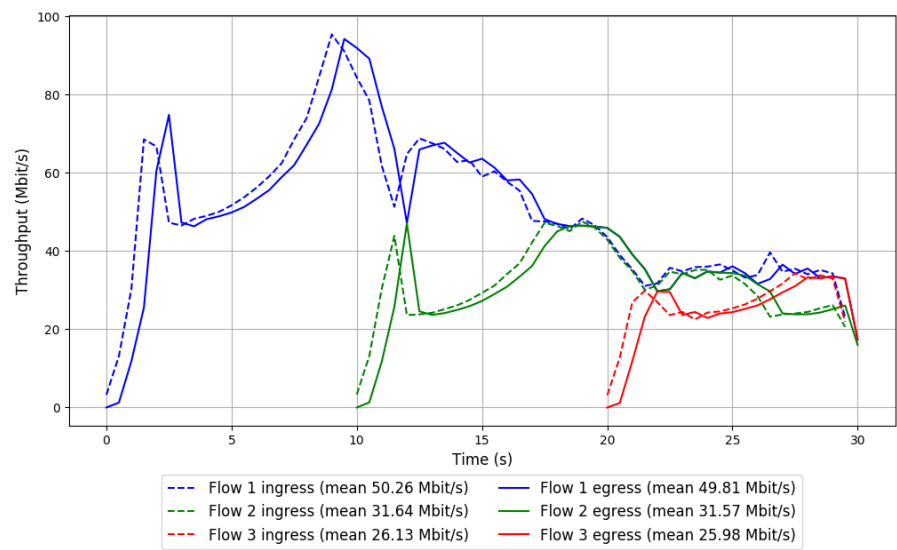


Run 7: Statistics of PCC-Expr

Start at: 2018-08-22 21:06:46
End at: 2018-08-22 21:07:16
Local clock offset: -10.234 ms
Remote clock offset: -5.755 ms

Below is generated by plot.py at 2018-08-22 22:46:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.23 Mbit/s
95th percentile per-packet one-way delay: 112.360 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 49.81 Mbit/s
95th percentile per-packet one-way delay: 111.664 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 112.823 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 25.98 Mbit/s
95th percentile per-packet one-way delay: 114.435 ms
Loss rate: 2.23%

Run 7: Report of PCC-Expr — Data Link

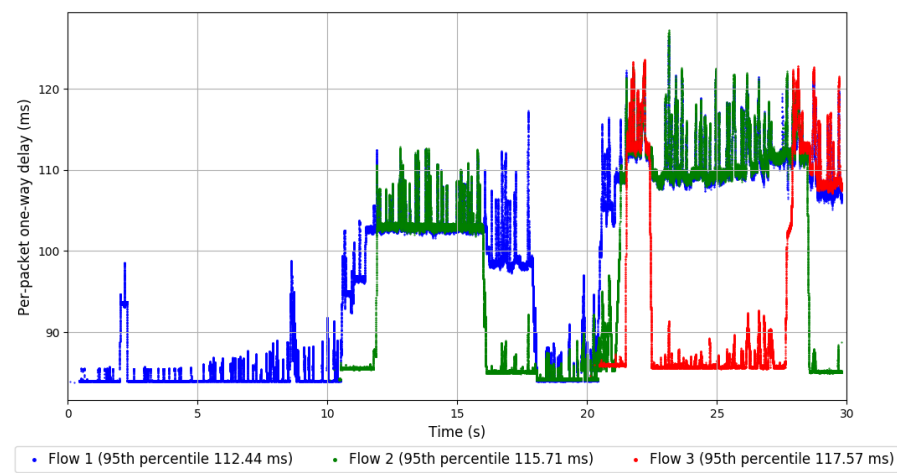
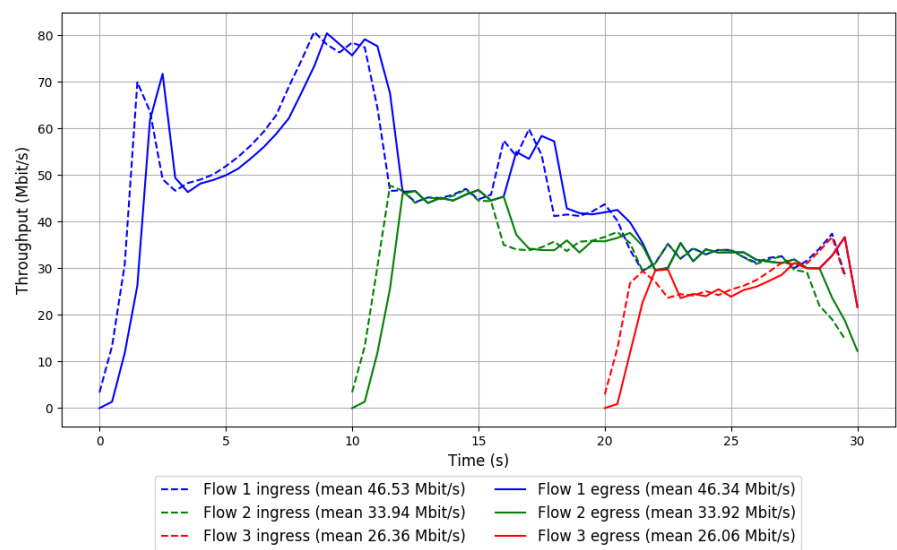


Run 8: Statistics of PCC-Expr

Start at: 2018-08-22 21:27:59
End at: 2018-08-22 21:28:29
Local clock offset: -5.368 ms
Remote clock offset: -0.745 ms

Below is generated by plot.py at 2018-08-22 22:46:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.34 Mbit/s
95th percentile per-packet one-way delay: 114.519 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 46.34 Mbit/s
95th percentile per-packet one-way delay: 112.437 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 33.92 Mbit/s
95th percentile per-packet one-way delay: 115.707 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 117.571 ms
Loss rate: 2.90%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-22 21:49:05

End at: 2018-08-22 21:49:35

Local clock offset: -4.295 ms

Remote clock offset: 6.273 ms

Below is generated by plot.py at 2018-08-22 22:47:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 105.324 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 103.587 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 105.390 ms

Loss rate: 1.07%

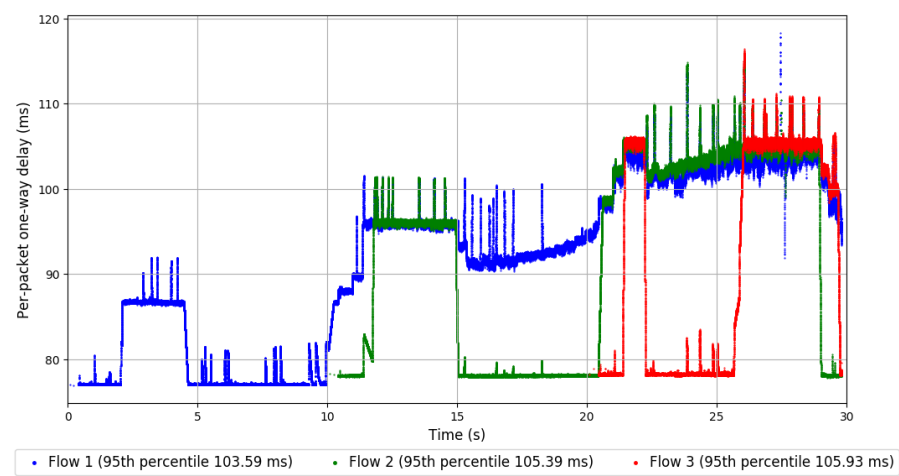
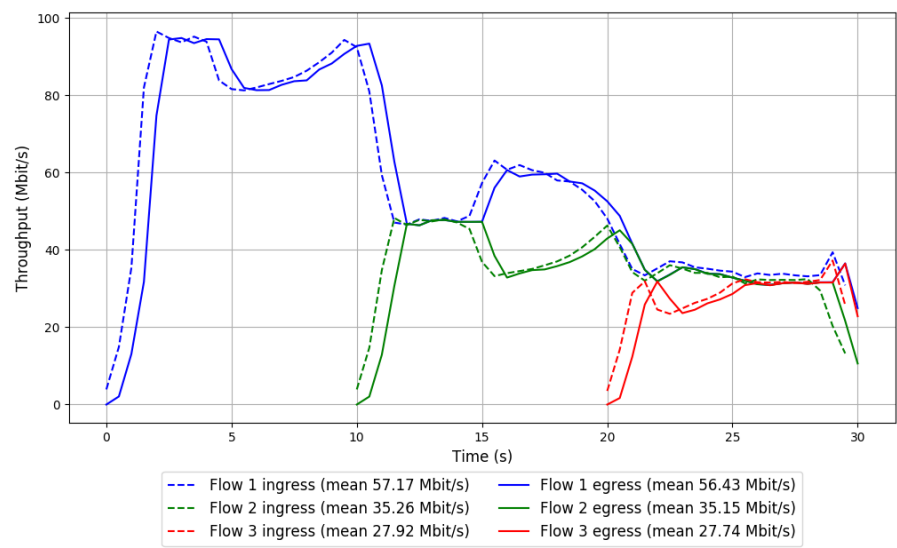
-- Flow 3:

Average throughput: 27.74 Mbit/s

95th percentile per-packet one-way delay: 105.933 ms

Loss rate: 2.18%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-08-22 22:10:04

End at: 2018-08-22 22:10:34

Local clock offset: -4.781 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.55 Mbit/s

95th percentile per-packet one-way delay: 104.265 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 56.54 Mbit/s

95th percentile per-packet one-way delay: 102.896 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 36.48 Mbit/s

95th percentile per-packet one-way delay: 105.149 ms

Loss rate: 1.14%

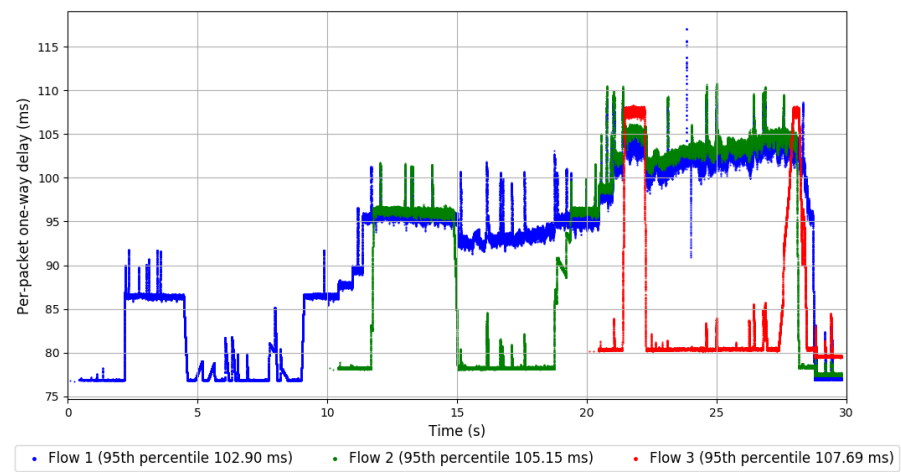
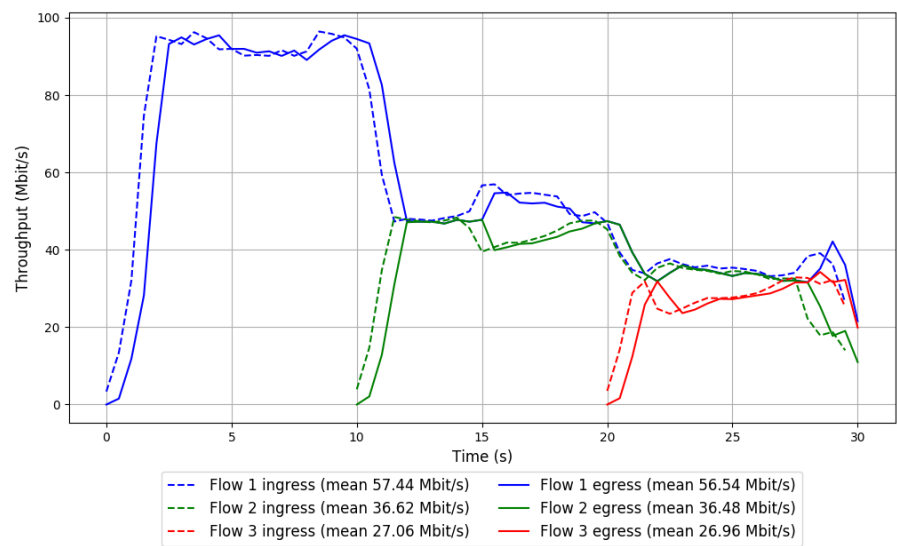
-- Flow 3:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 107.686 ms

Loss rate: 1.94%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-22 19:07:27

End at: 2018-08-22 19:07:57

Local clock offset: -4.982 ms

Remote clock offset: 3.502 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 105.533 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 105.072 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 105.746 ms

Loss rate: 1.22%

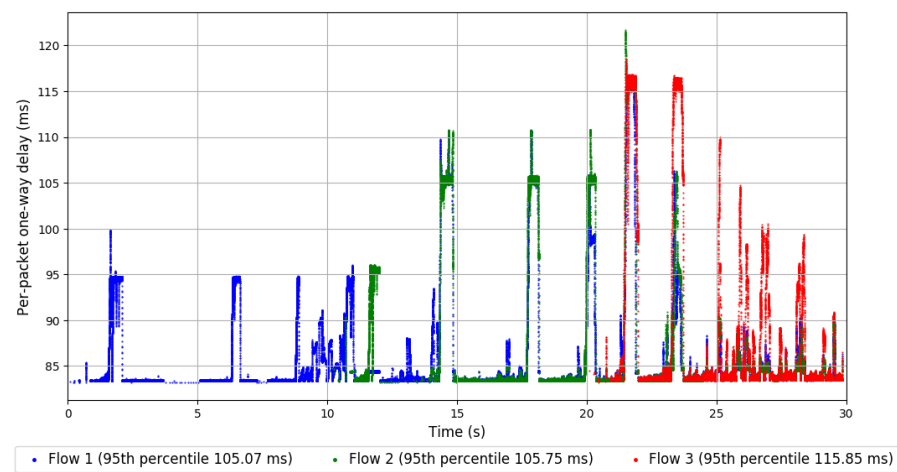
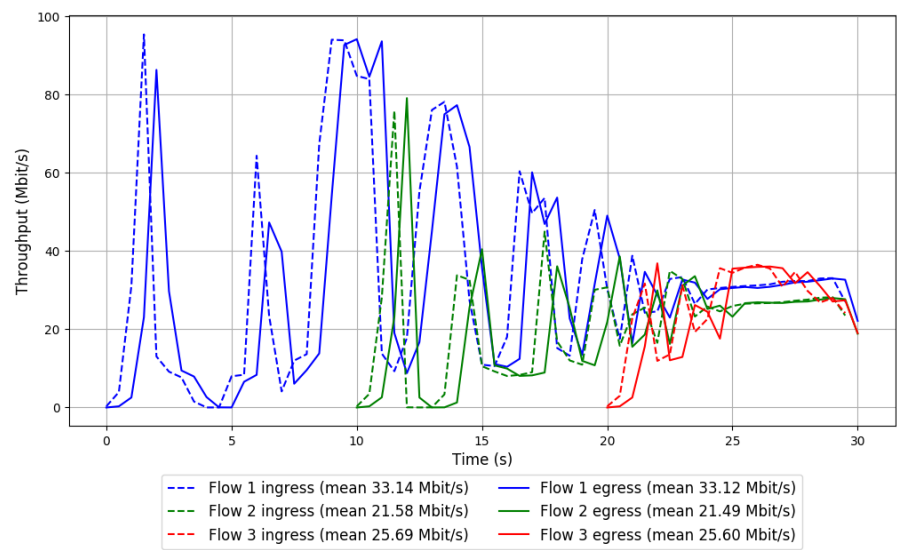
-- Flow 3:

Average throughput: 25.60 Mbit/s

95th percentile per-packet one-way delay: 115.854 ms

Loss rate: 2.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-22 19:28:32

End at: 2018-08-22 19:29:02

Local clock offset: -4.992 ms

Remote clock offset: 4.371 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 104.251 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 100.028 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: 104.288 ms

Loss rate: 1.16%

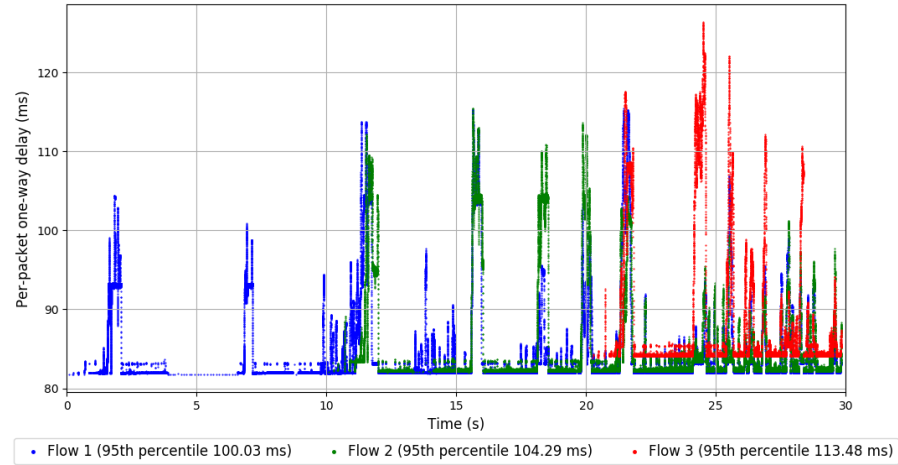
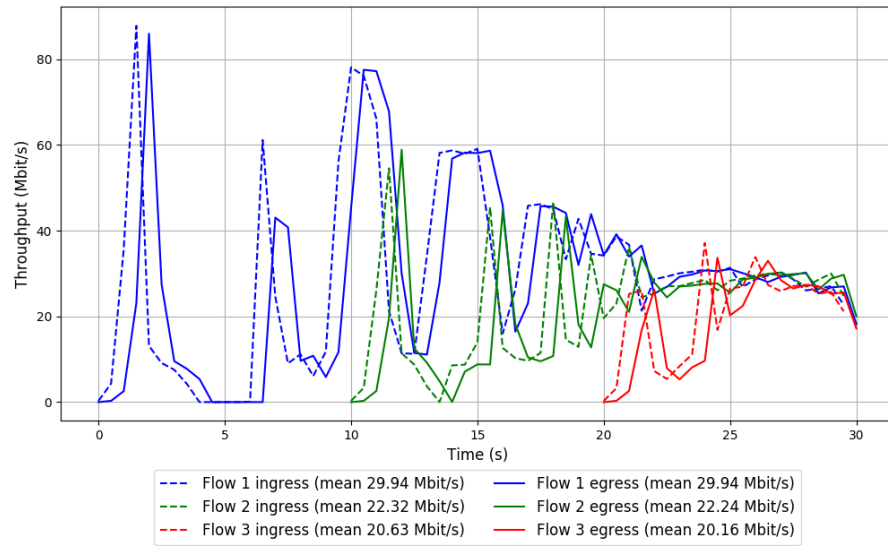
-- Flow 3:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 113.479 ms

Loss rate: 3.90%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-22 19:49:51

End at: 2018-08-22 19:50:21

Local clock offset: -7.904 ms

Remote clock offset: 6.965 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.79 Mbit/s

95th percentile per-packet one-way delay: 104.555 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 29.04 Mbit/s

95th percentile per-packet one-way delay: 99.934 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 23.86 Mbit/s

95th percentile per-packet one-way delay: 101.781 ms

Loss rate: 0.95%

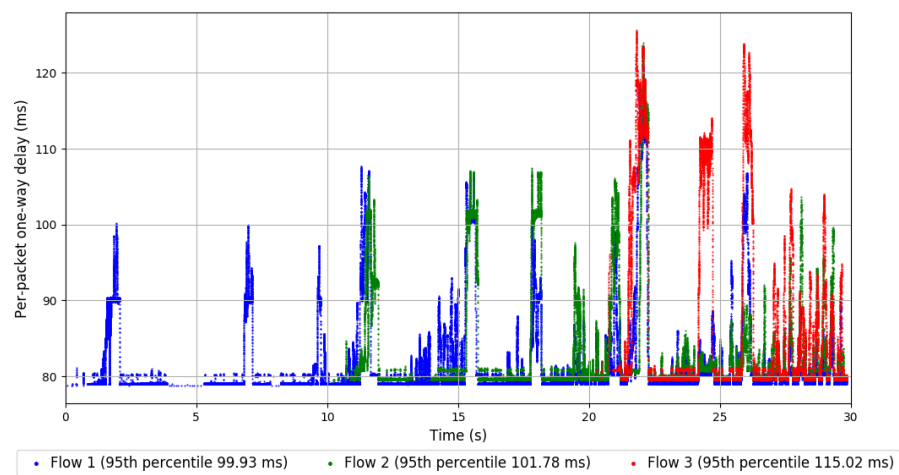
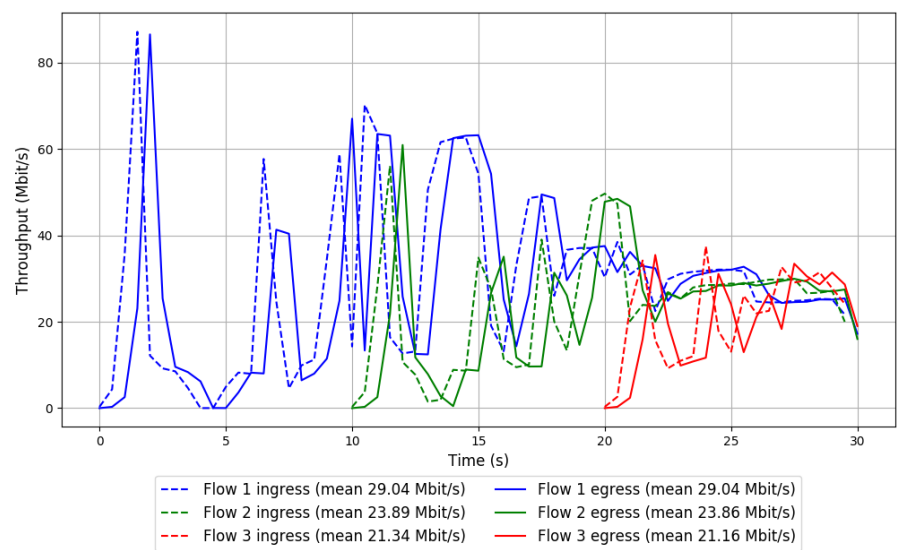
-- Flow 3:

Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 115.023 ms

Loss rate: 2.47%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-22 20:10:55

End at: 2018-08-22 20:11:25

Local clock offset: -9.584 ms

Remote clock offset: 7.798 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 100.395 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 94.350 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 100.486 ms

Loss rate: 1.23%

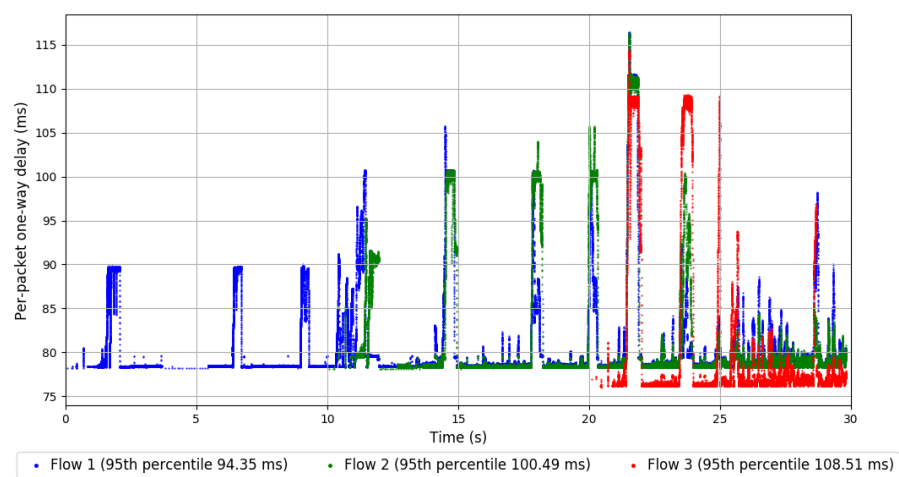
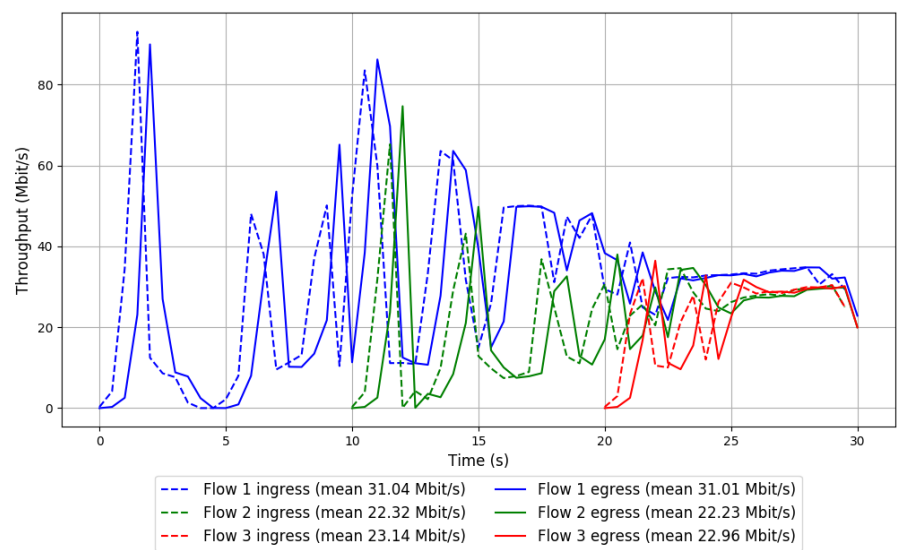
-- Flow 3:

Average throughput: 22.96 Mbit/s

95th percentile per-packet one-way delay: 108.512 ms

Loss rate: 2.39%

Run 4: Report of QUIC Cubic — Data Link

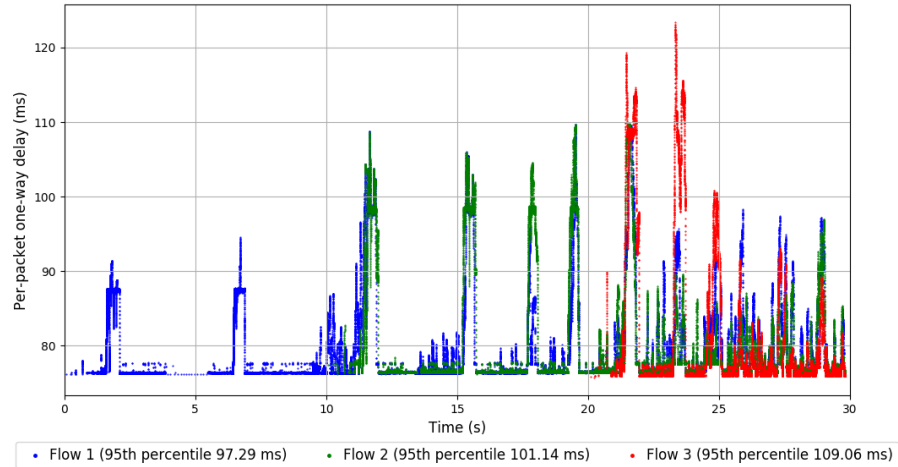
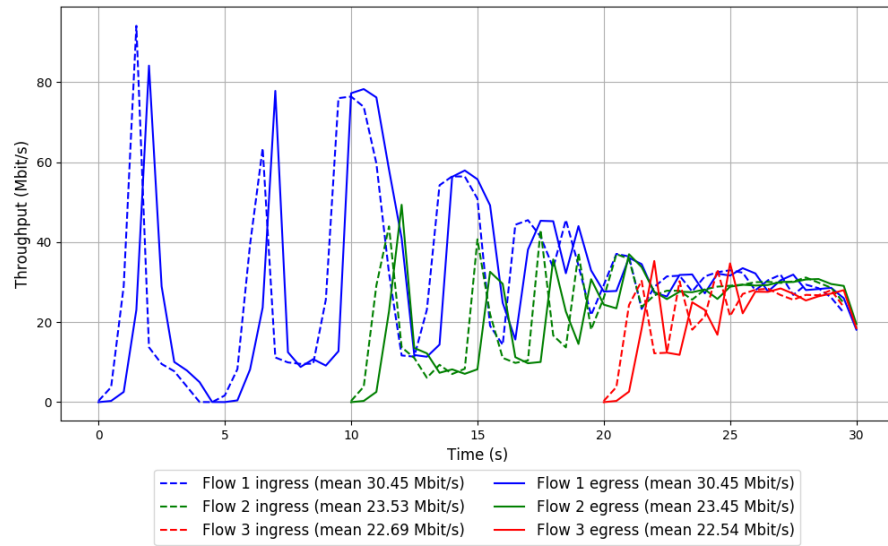


Run 5: Statistics of QUIC Cubic

Start at: 2018-08-22 20:31:59
End at: 2018-08-22 20:32:29
Local clock offset: -10.905 ms
Remote clock offset: 8.463 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.39 Mbit/s
95th percentile per-packet one-way delay: 99.151 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 97.287 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 101.139 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 22.54 Mbit/s
95th percentile per-packet one-way delay: 109.062 ms
Loss rate: 2.26%

Run 5: Report of QUIC Cubic — Data Link

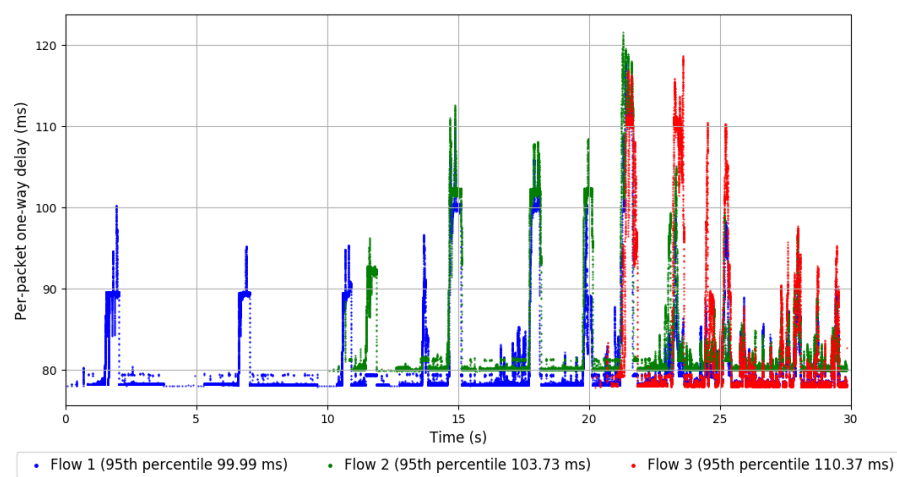
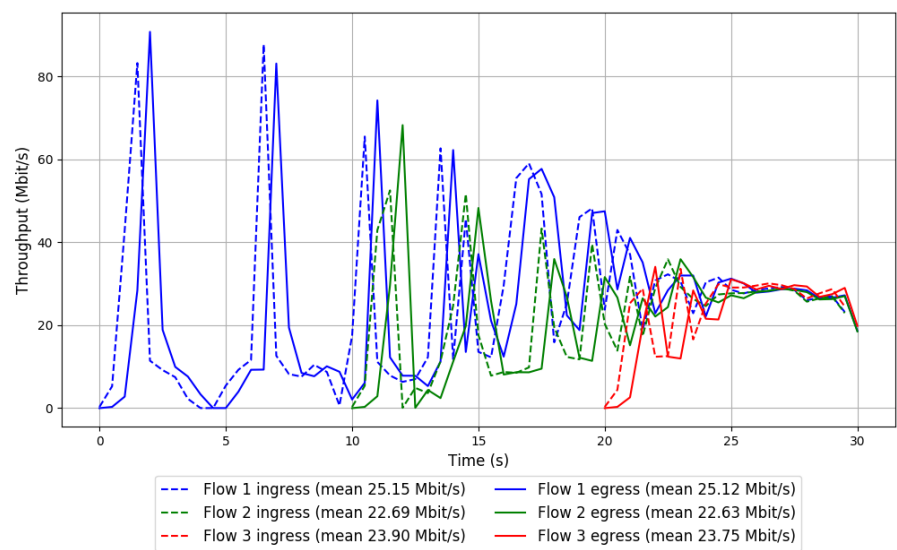


Run 6: Statistics of QUIC Cubic

Start at: 2018-08-22 20:53:08
End at: 2018-08-22 20:53:38
Local clock offset: -10.676 ms
Remote clock offset: 1.037 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.91 Mbit/s
95th percentile per-packet one-way delay: 102.278 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 99.993 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 103.728 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 110.374 ms
Loss rate: 2.10%

Run 6: Report of QUIC Cubic — Data Link

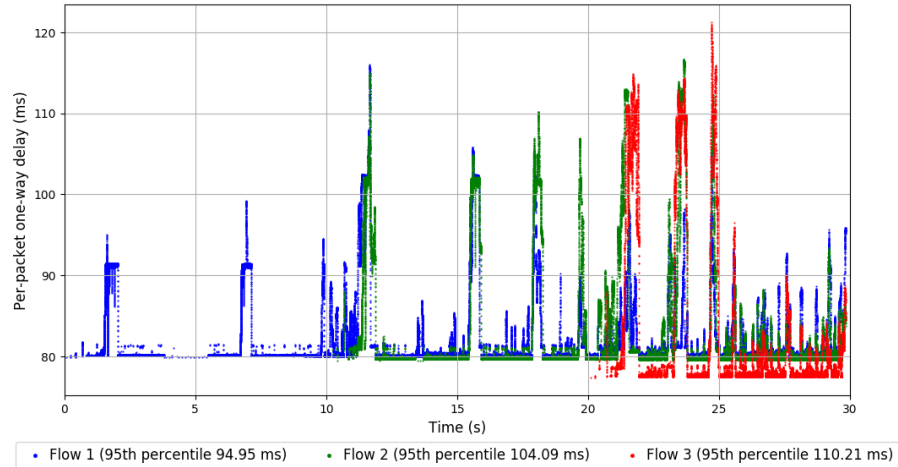
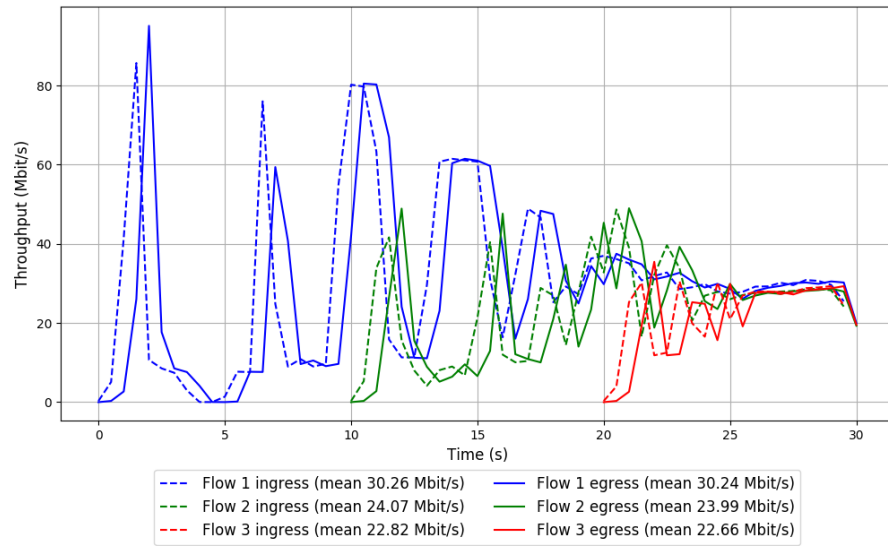


Run 7: Statistics of QUIC Cubic

Start at: 2018-08-22 21:14:09
End at: 2018-08-22 21:14:39
Local clock offset: -6.919 ms
Remote clock offset: -1.884 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.58 Mbit/s
95th percentile per-packet one-way delay: 102.044 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 94.951 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 104.089 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 22.66 Mbit/s
95th percentile per-packet one-way delay: 110.209 ms
Loss rate: 2.32%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-22 21:35:24

End at: 2018-08-22 21:35:54

Local clock offset: -3.266 ms

Remote clock offset: 4.421 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 102.134 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 29.26 Mbit/s

95th percentile per-packet one-way delay: 96.673 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 29.49 Mbit/s

95th percentile per-packet one-way delay: 101.906 ms

Loss rate: 0.43%

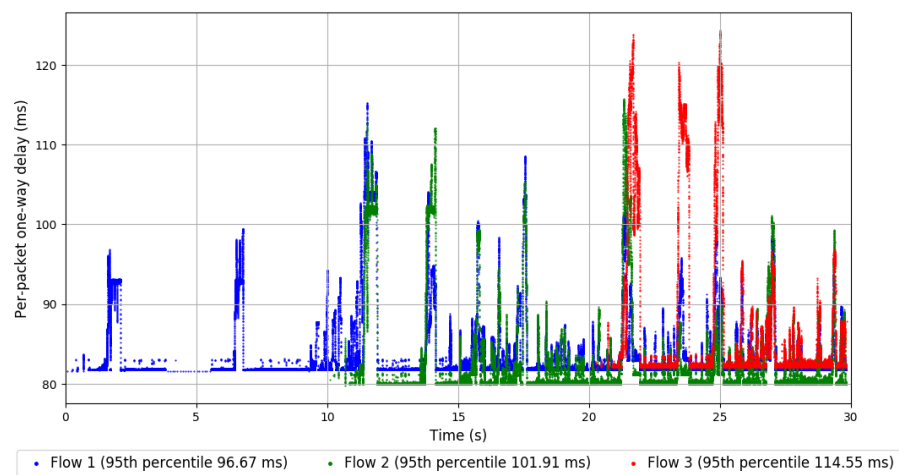
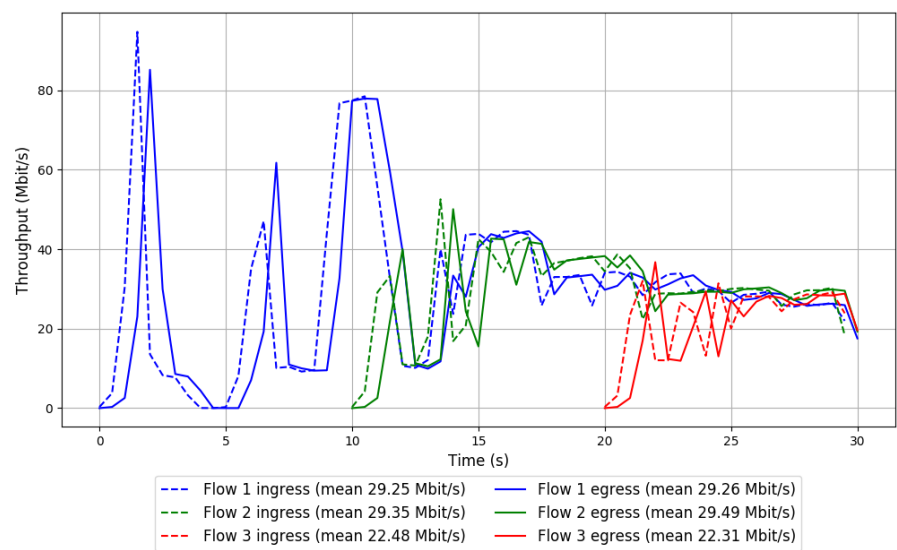
-- Flow 3:

Average throughput: 22.31 Mbit/s

95th percentile per-packet one-way delay: 114.553 ms

Loss rate: 2.34%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-22 21:56:28

End at: 2018-08-22 21:56:58

Local clock offset: -3.191 ms

Remote clock offset: 3.188 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.64 Mbit/s

95th percentile per-packet one-way delay: 99.929 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 96.968 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 99.874 ms

Loss rate: 0.80%

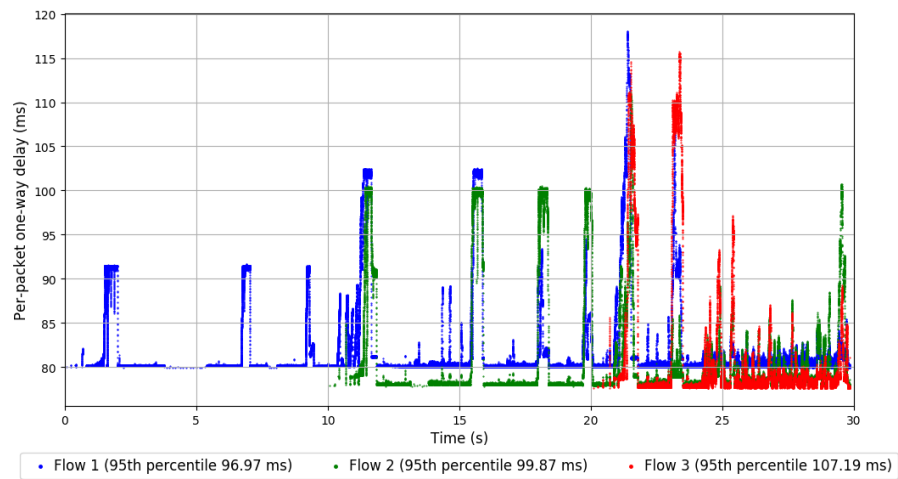
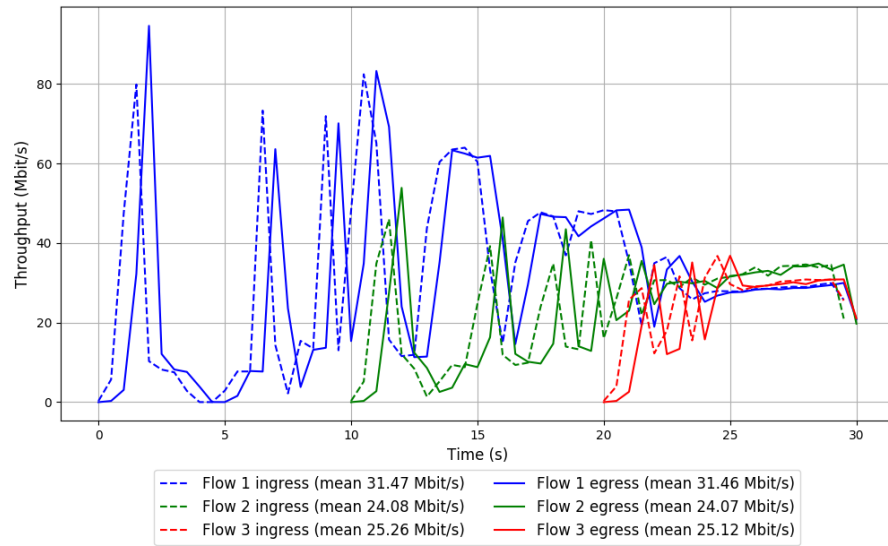
-- Flow 3:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 107.186 ms

Loss rate: 2.03%

Run 9: Report of QUIC Cubic — Data Link

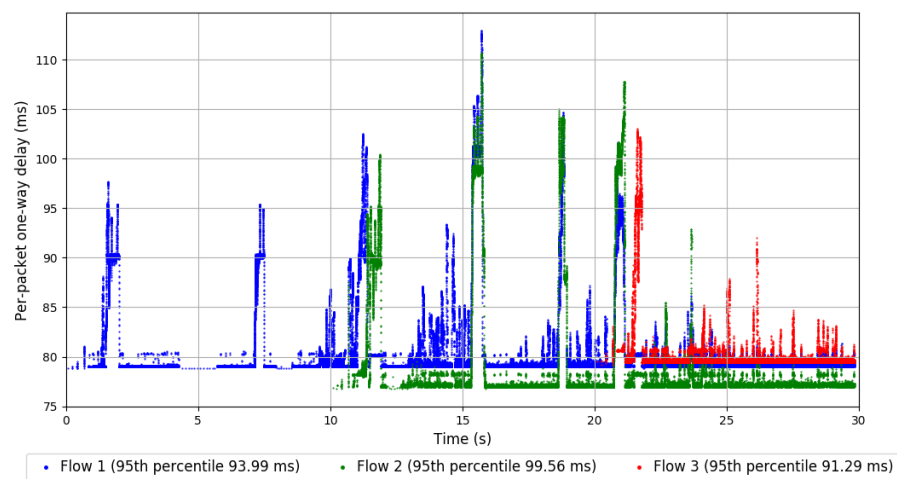
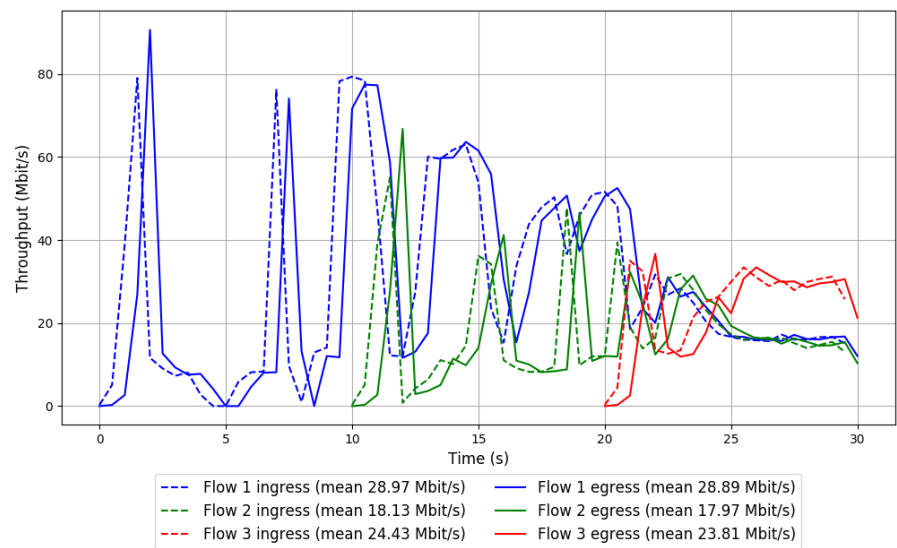


Run 10: Statistics of QUIC Cubic

Start at: 2018-08-22 22:17:26
End at: 2018-08-22 22:17:56
Local clock offset: -6.393 ms
Remote clock offset: -0.621 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.61 Mbit/s
95th percentile per-packet one-way delay: 97.142 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 28.89 Mbit/s
95th percentile per-packet one-way delay: 93.987 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 17.97 Mbit/s
95th percentile per-packet one-way delay: 99.558 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 91.289 ms
Loss rate: 4.10%

Run 10: Report of QUIC Cubic — Data Link

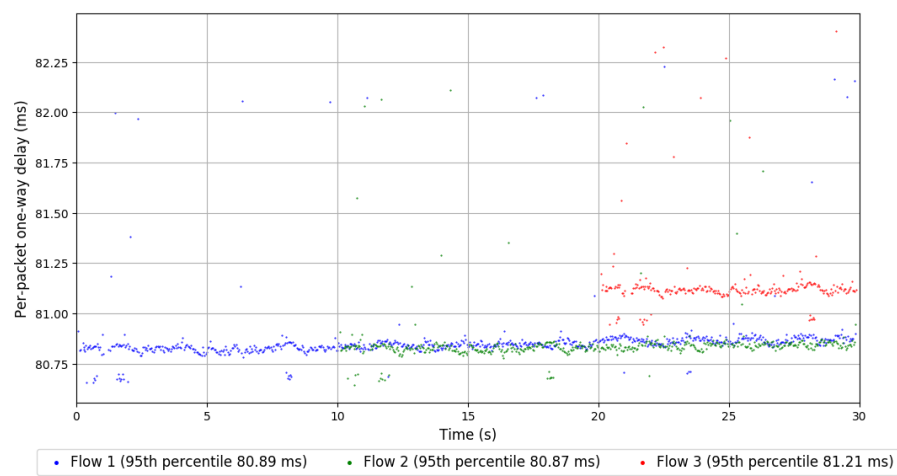
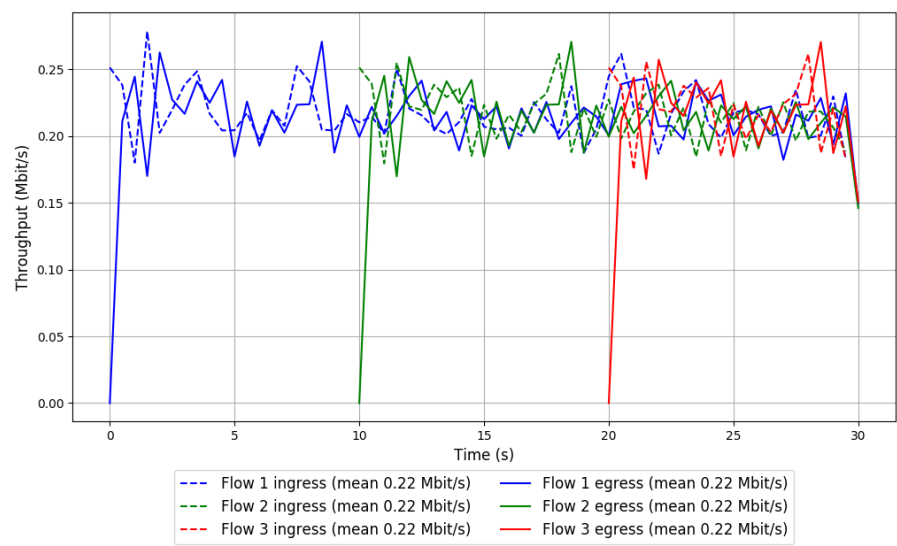


```
Run 1: Statistics of SReAM

Start at: 2018-08-22 19:09:51
End at: 2018-08-22 19:10:21
Local clock offset: -4.984 ms
Remote clock offset: 3.95 ms

# Below is generated by plot.py at 2018-08-22 22:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.134 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.894 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.871 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.211 ms
Loss rate: 1.45%
```

Run 1: Report of SReAM — Data Link

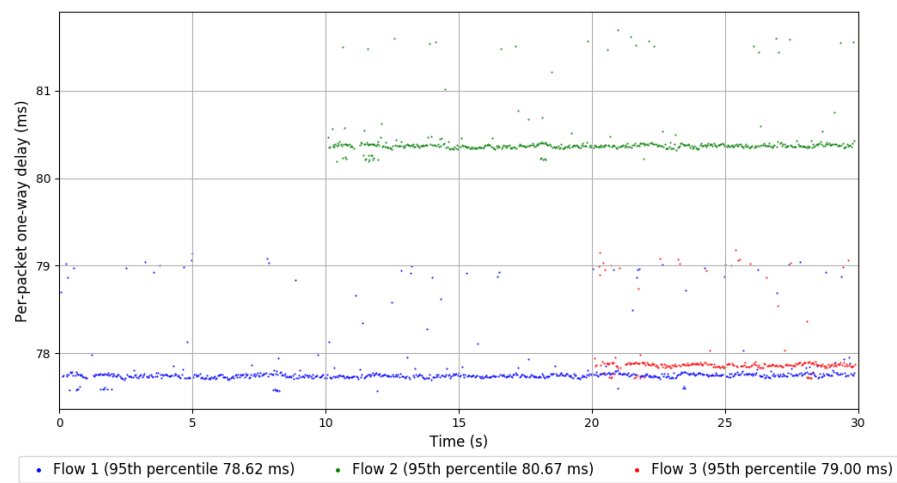
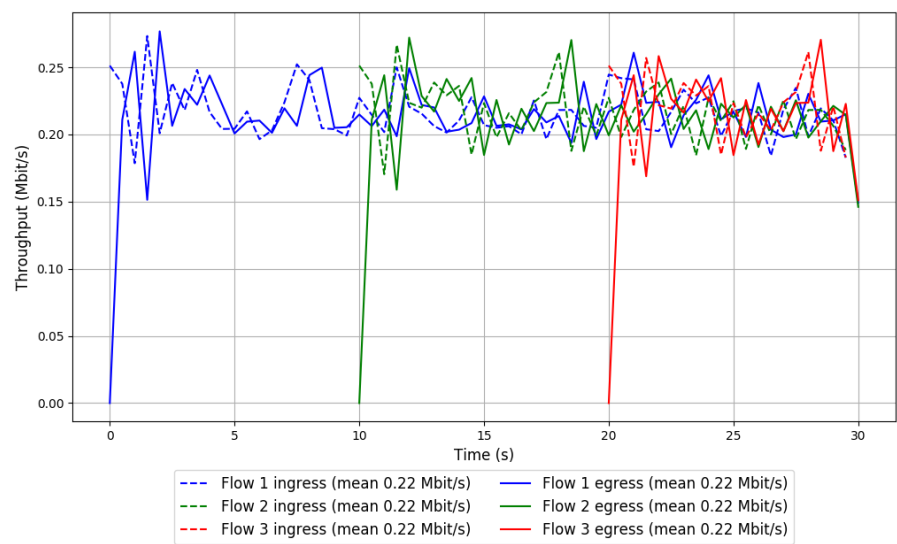


Run 2: Statistics of SReAM

Start at: 2018-08-22 19:30:56
End at: 2018-08-22 19:31:26
Local clock offset: -4.276 ms
Remote clock offset: 9.44 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.398 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.620 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.669 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.997 ms
Loss rate: 1.45%

Run 2: Report of SReAM — Data Link

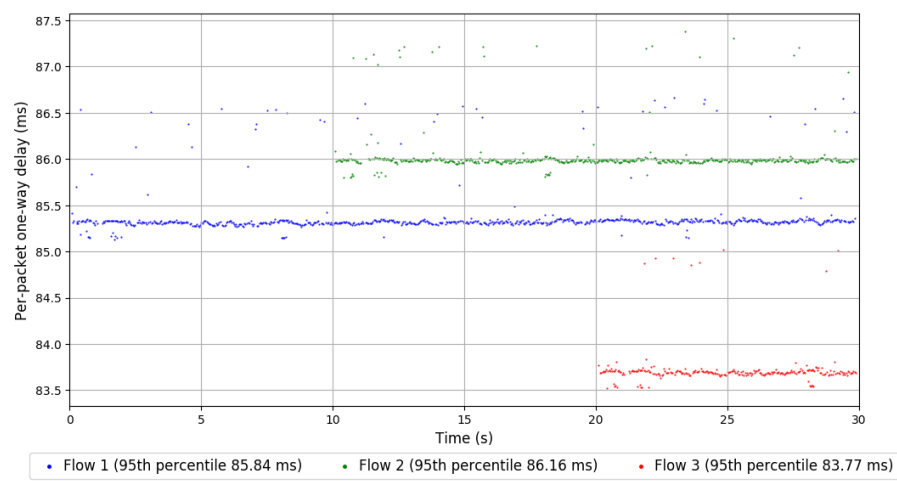
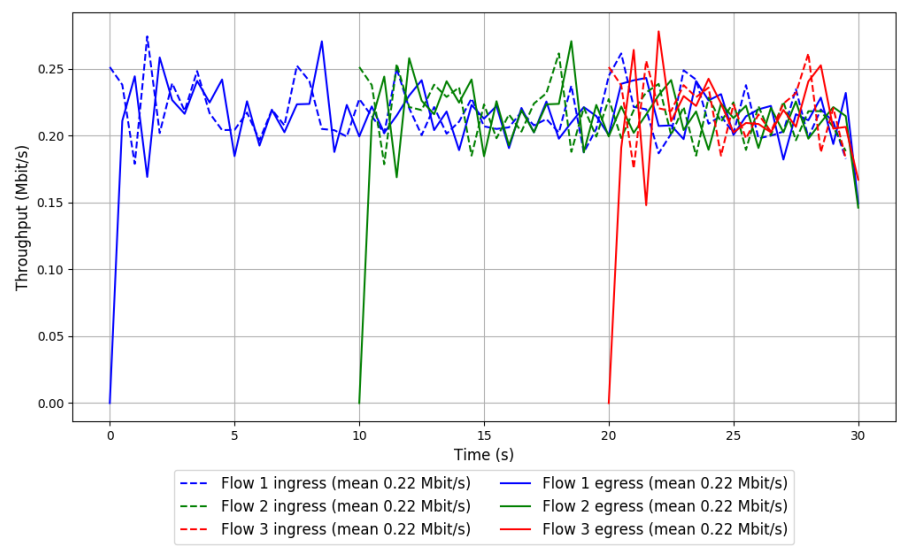


Run 3: Statistics of SReAM

Start at: 2018-08-22 19:52:15
End at: 2018-08-22 19:52:45
Local clock offset: -6.621 ms
Remote clock offset: 1.951 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.023 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.837 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.161 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.769 ms
Loss rate: 1.45%

Run 3: Report of SCReAM — Data Link

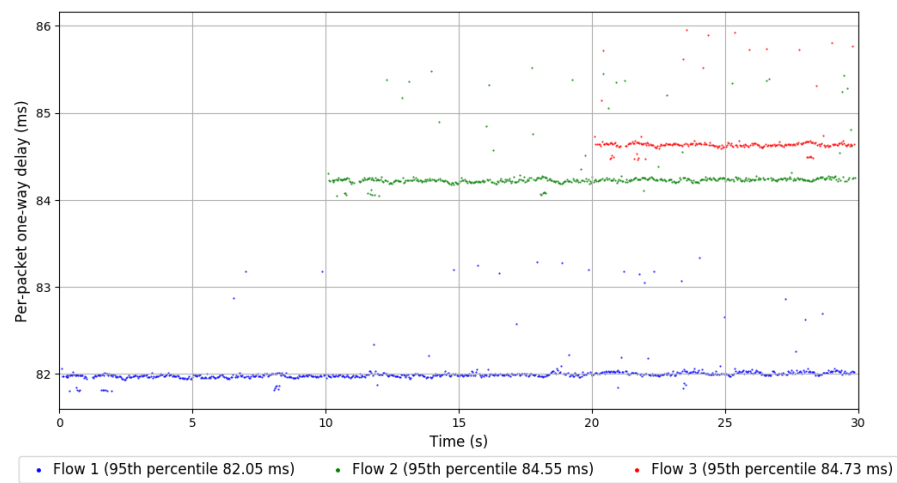
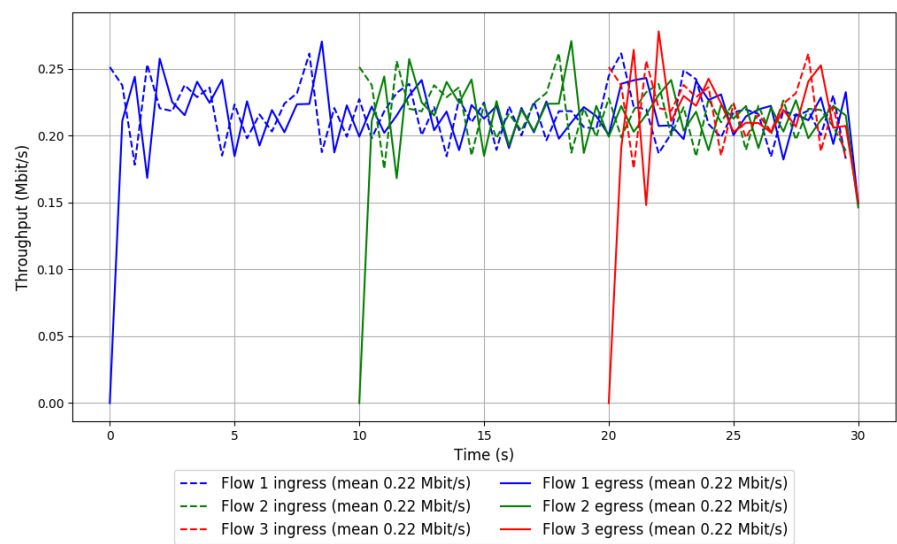


Run 4: Statistics of SReAM

Start at: 2018-08-22 20:13:20
End at: 2018-08-22 20:13:50
Local clock offset: -9.743 ms
Remote clock offset: 1.986 ms

```
# Below is generated by plot.py at 2018-08-22 22:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.653 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.050 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.549 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.735 ms
Loss rate: 1.84%
```


Run 4: Report of SReAM — Data Link

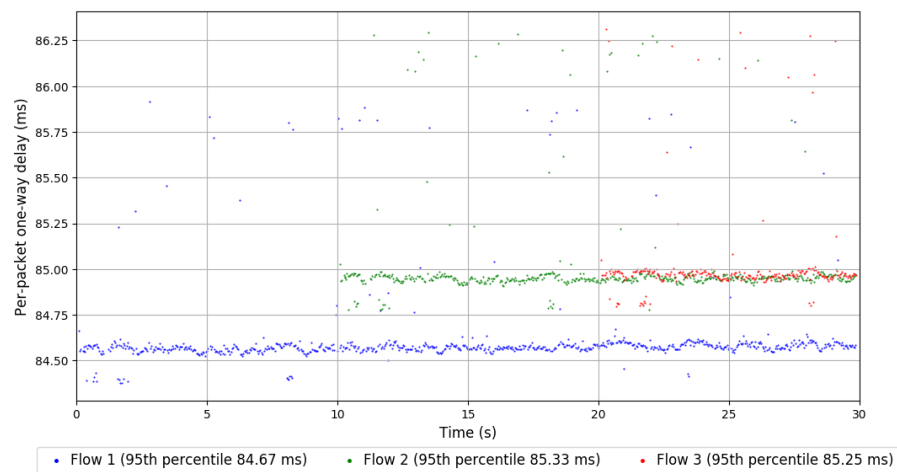
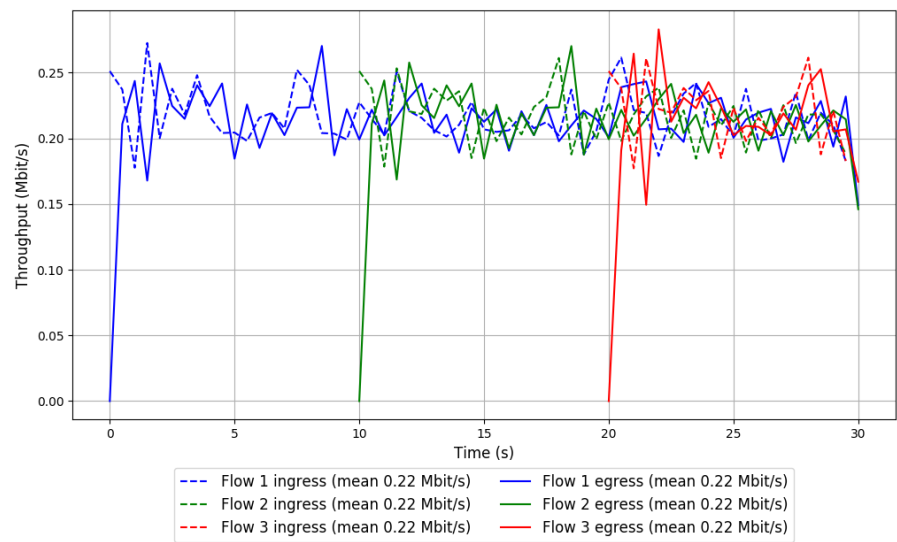


Run 5: Statistics of SReAM

Start at: 2018-08-22 20:34:24
End at: 2018-08-22 20:34:54
Local clock offset: -10.224 ms
Remote clock offset: 2.612 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.025 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.672 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.326 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.249 ms
Loss rate: 1.45%

Run 5: Report of SReAM — Data Link

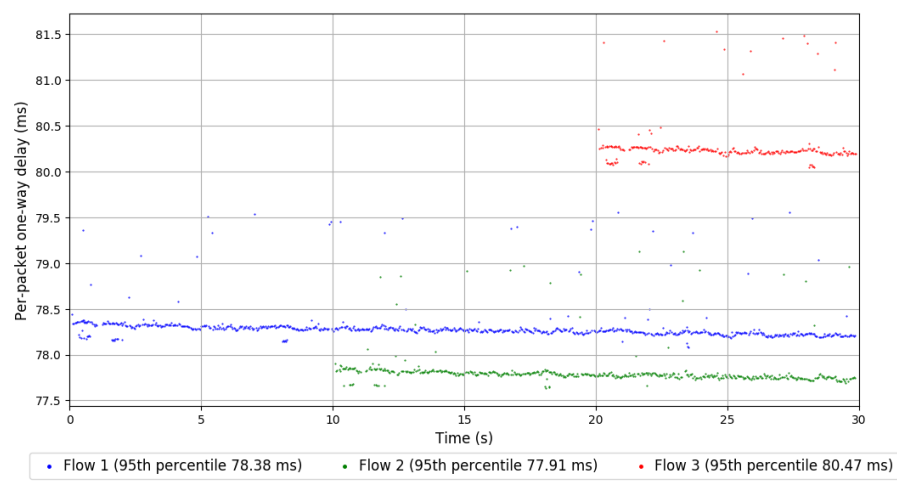
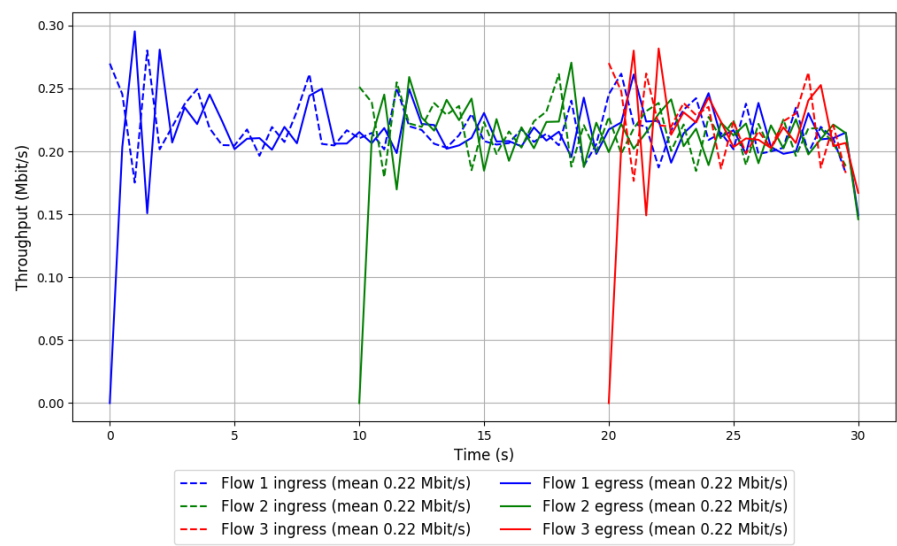


Run 6: Statistics of SReAM

Start at: 2018-08-22 20:55:32
End at: 2018-08-22 20:56:02
Local clock offset: -10.783 ms
Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 80.250 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.375 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.906 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.469 ms
Loss rate: 1.44%

Run 6: Report of SReAM — Data Link

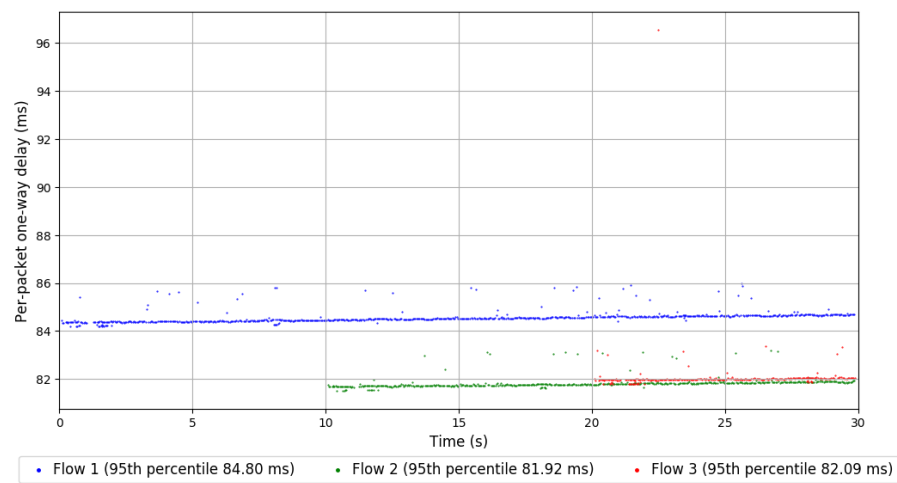
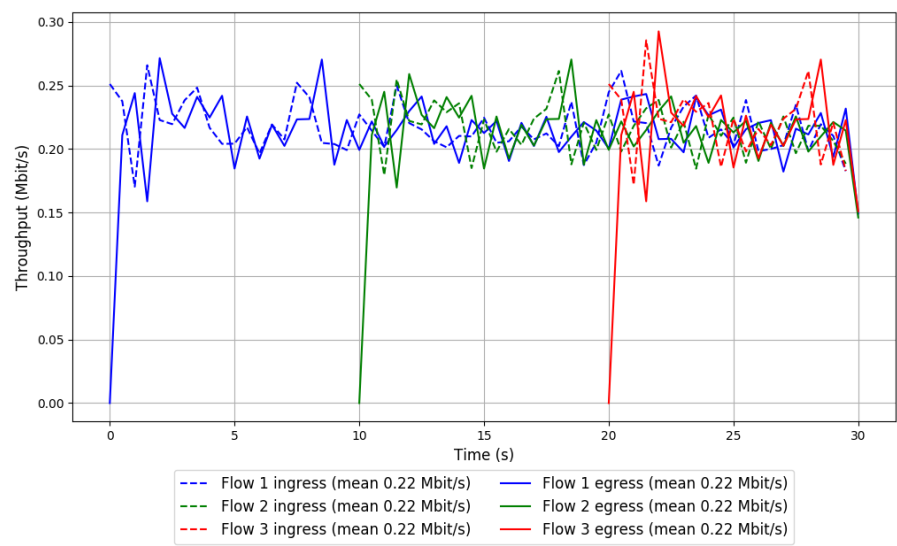


Run 7: Statistics of SReAM

Start at: 2018-08-22 21:16:34
End at: 2018-08-22 21:17:04
Local clock offset: -6.324 ms
Remote clock offset: -5.808 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 84.678 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.795 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.921 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.087 ms
Loss rate: 1.44%

Run 7: Report of SReAM — Data Link

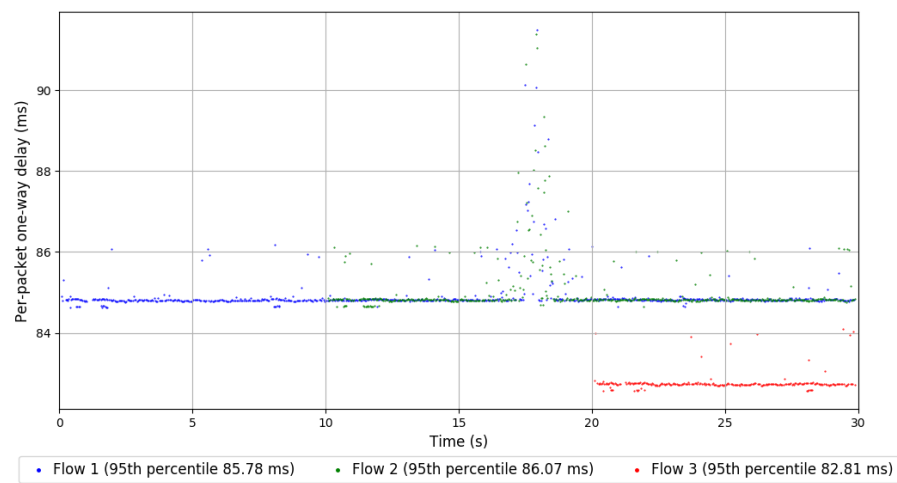
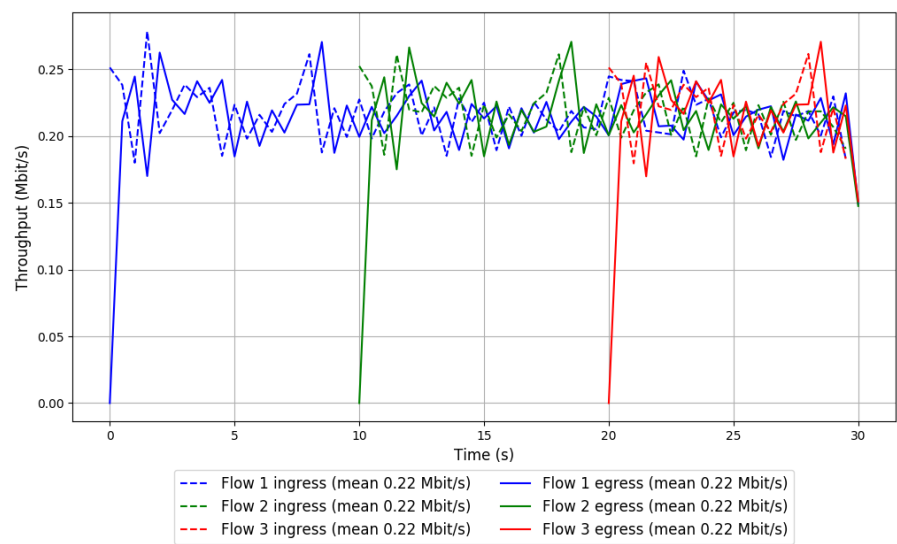


Run 8: Statistics of SReAM

Start at: 2018-08-22 21:37:48
End at: 2018-08-22 21:38:18
Local clock offset: -3.143 ms
Remote clock offset: 1.958 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 85.823 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.785 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.067 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.811 ms
Loss rate: 1.45%

Run 8: Report of SReAM — Data Link

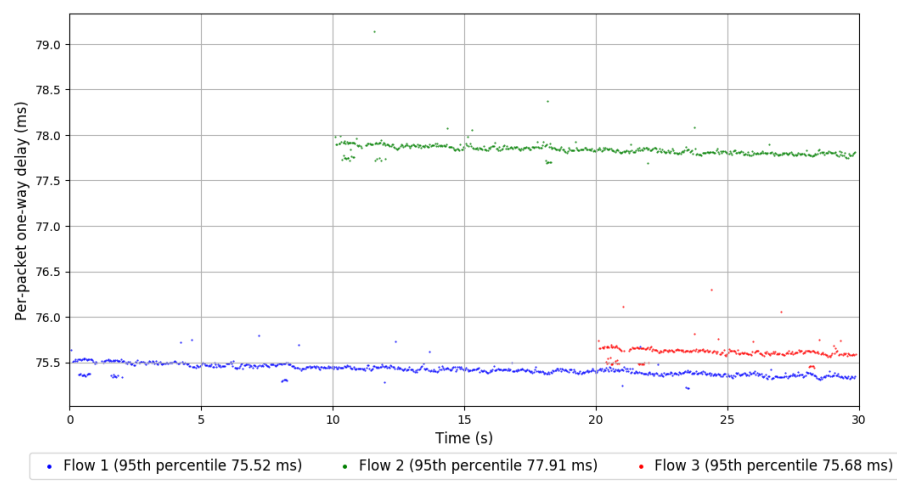
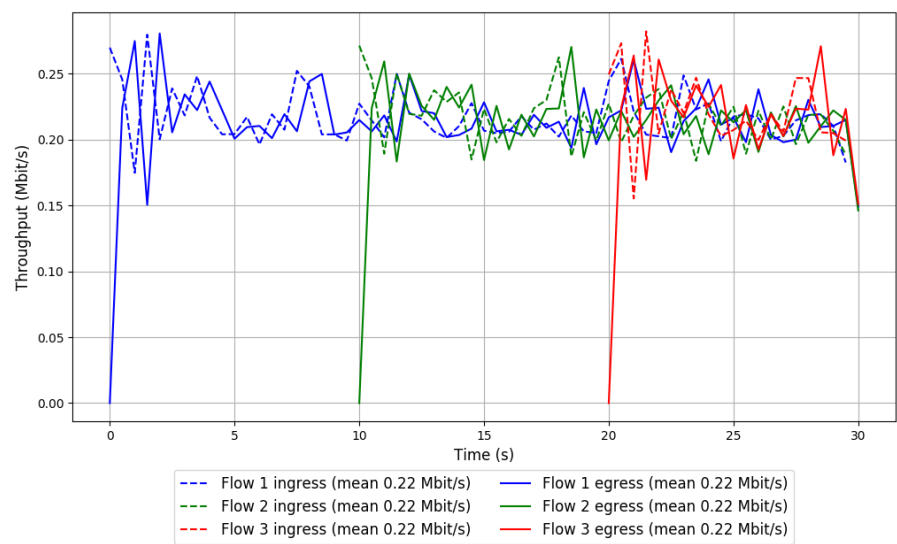


Run 9: Statistics of SReAM

Start at: 2018-08-22 21:58:51
End at: 2018-08-22 21:59:21
Local clock offset: -3.862 ms
Remote clock offset: 3.685 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 77.889 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 75.516 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.913 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 75.676 ms
Loss rate: 1.44%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-22 22:19:50

End at: 2018-08-22 22:20:20

Local clock offset: -5.161 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 80.200 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.100 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.240 ms

Loss rate: 0.81%

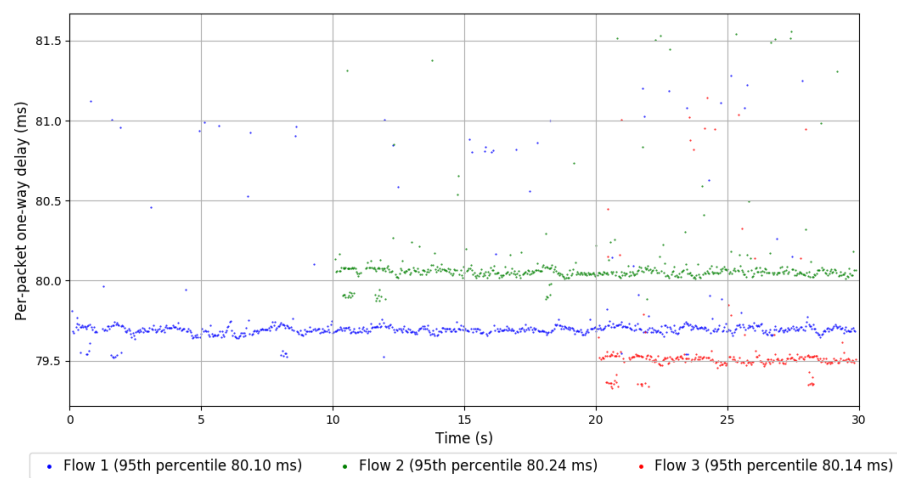
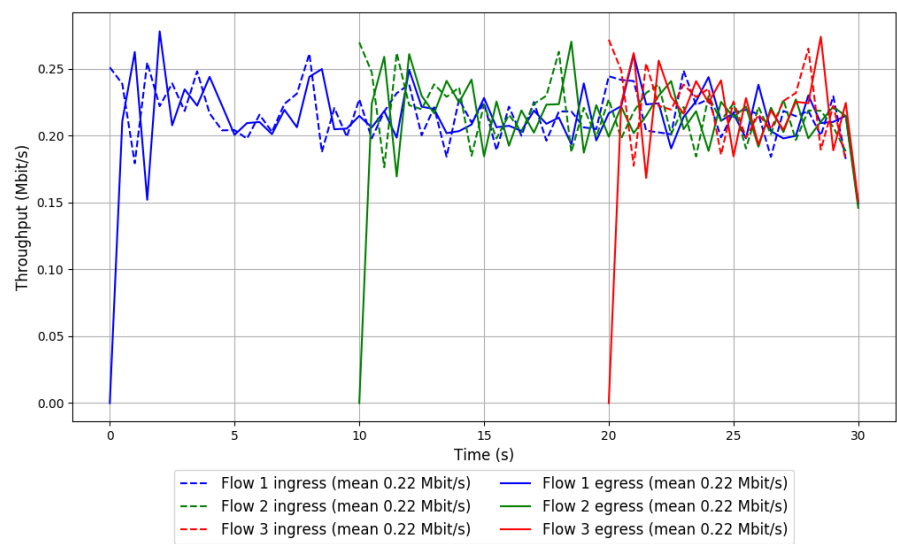
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.142 ms

Loss rate: 1.42%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-08-22 19:05:02

End at: 2018-08-22 19:05:32

Local clock offset: -5.062 ms

Remote clock offset: 3.091 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 84.287 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 84.256 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 84.414 ms

Loss rate: 0.24%

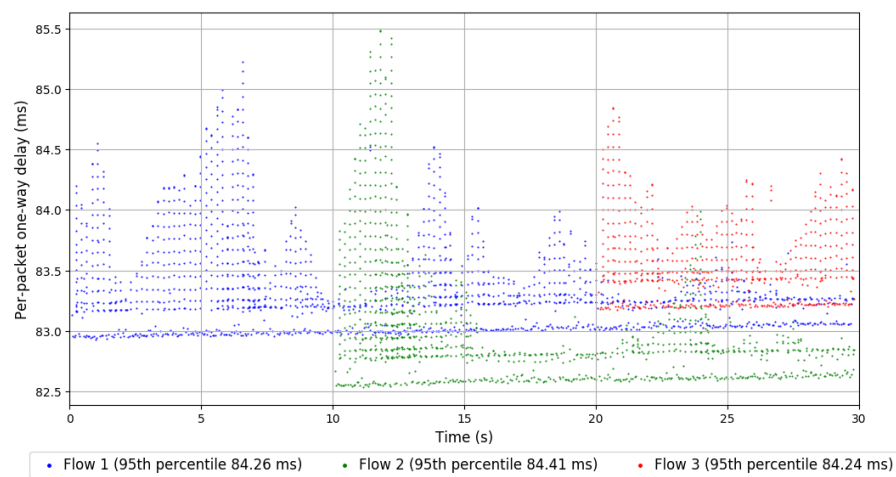
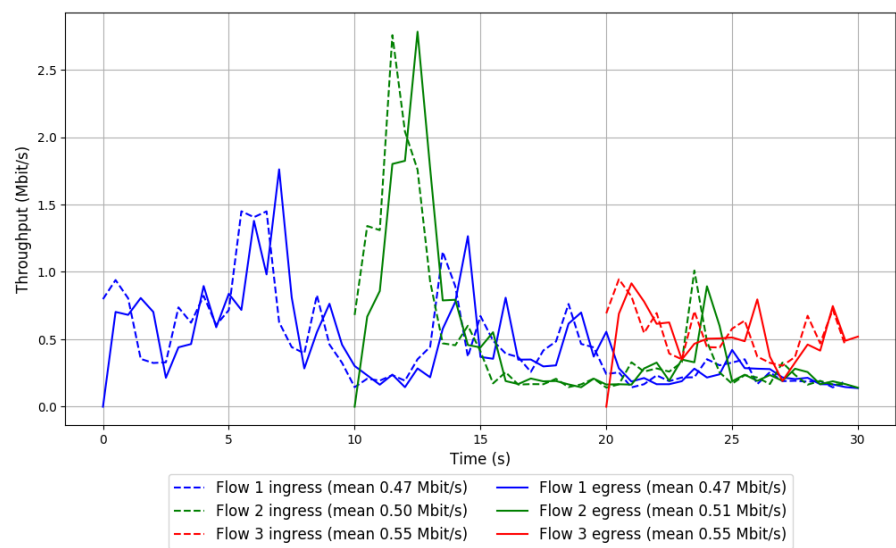
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 84.237 ms

Loss rate: 1.53%

Run 1: Report of Sprout — Data Link

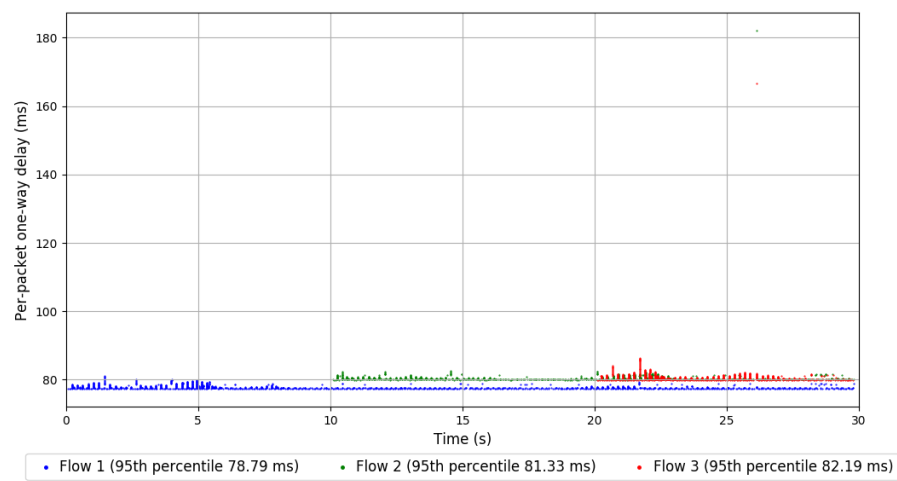
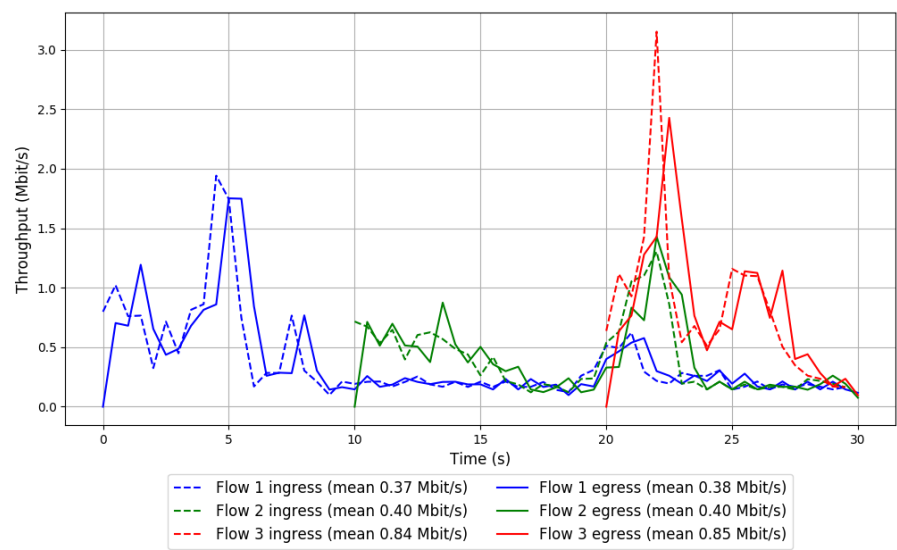


Run 2: Statistics of Sprout

Start at: 2018-08-22 19:26:07
End at: 2018-08-22 19:26:37
Local clock offset: -3.452 ms
Remote clock offset: 10.272 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 81.329 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 78.793 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 81.329 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 82.189 ms
Loss rate: 0.43%

Run 2: Report of Sprout — Data Link

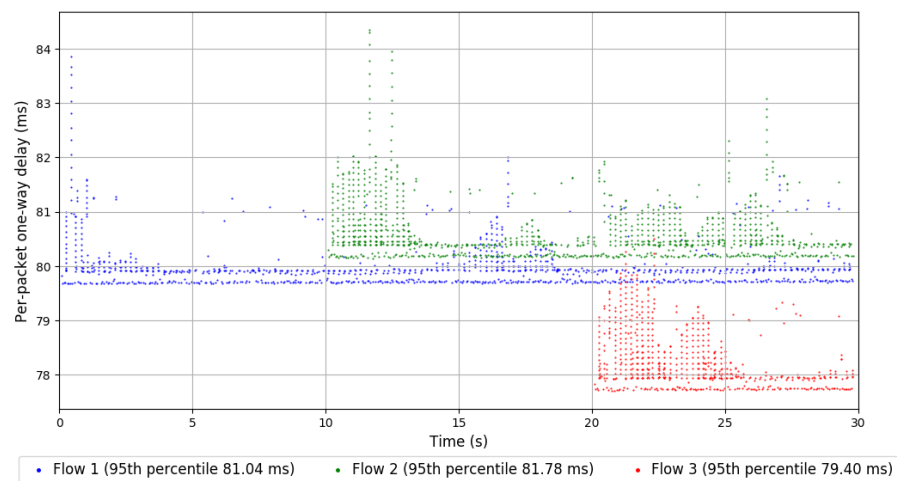
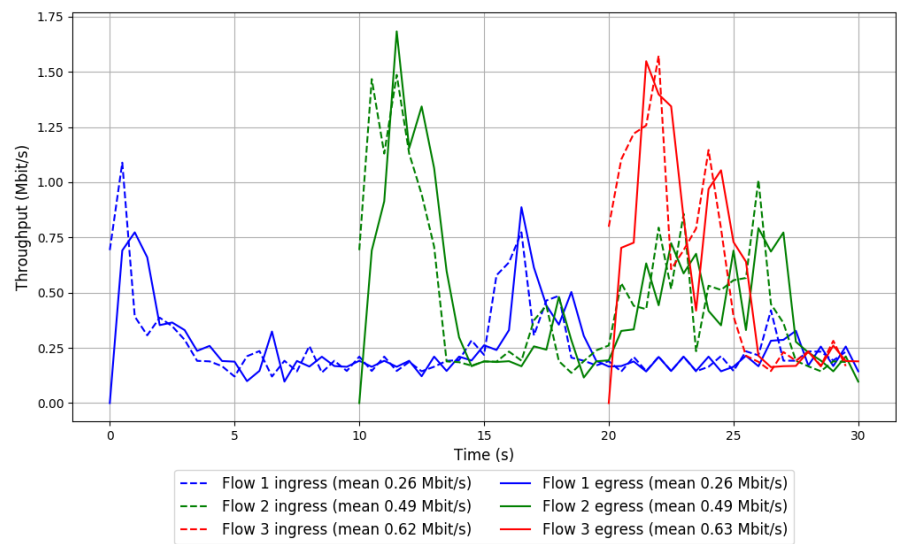


Run 3: Statistics of Sprout

Start at: 2018-08-22 19:47:26
End at: 2018-08-22 19:47:56
Local clock offset: -6.789 ms
Remote clock offset: 7.198 ms

```
# Below is generated by plot.py at 2018-08-22 22:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 81.400 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 81.044 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 81.775 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 79.397 ms
Loss rate: 0.59%
```

Run 3: Report of Sprout — Data Link

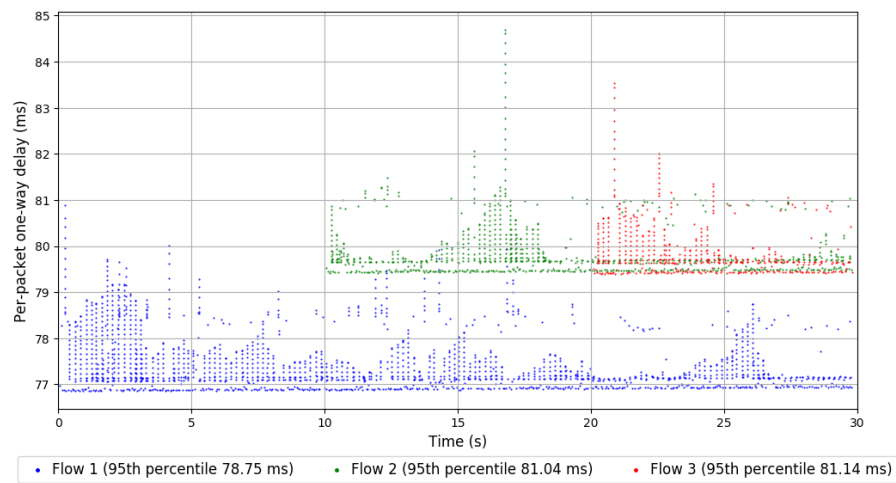
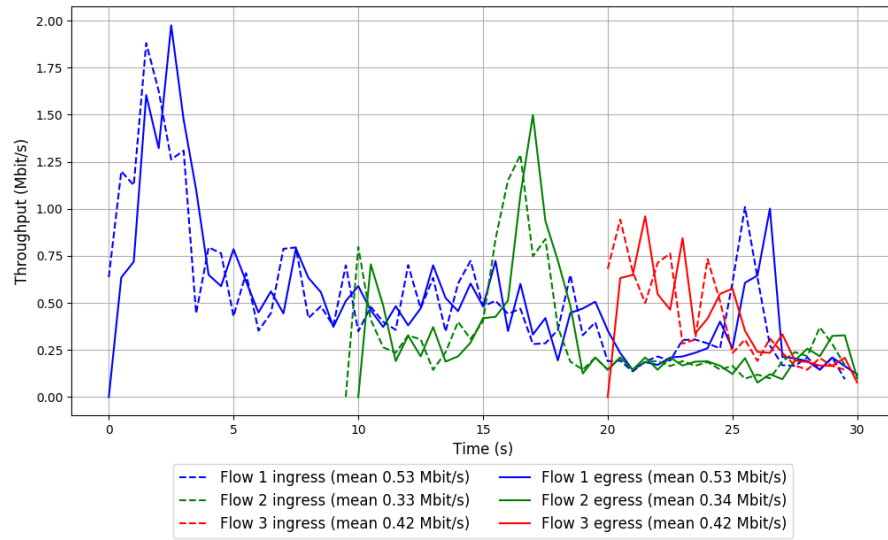


Run 4: Statistics of Sprout

Start at: 2018-08-22 20:08:31
End at: 2018-08-22 20:09:01
Local clock offset: -9.416 ms
Remote clock offset: 6.568 ms

```
# Below is generated by plot.py at 2018-08-22 22:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 80.775 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 78.749 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 81.039 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 81.145 ms
Loss rate: 0.85%
```

Run 4: Report of Sprout — Data Link

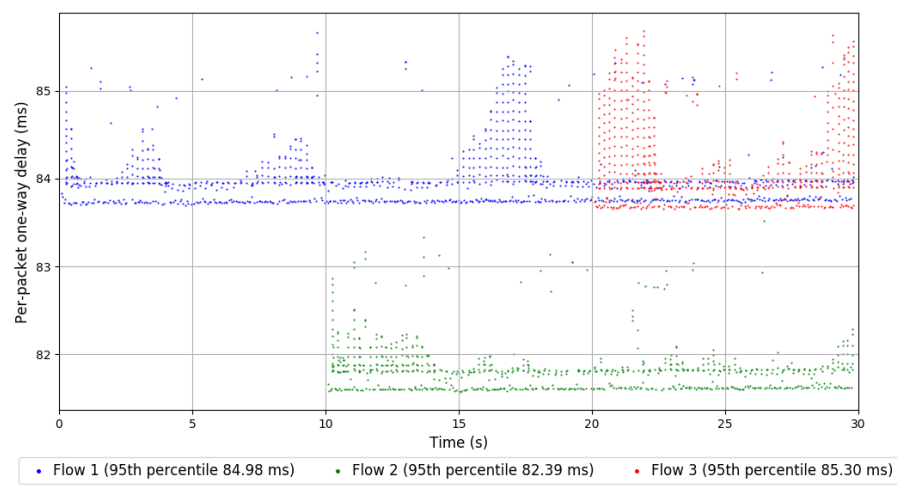
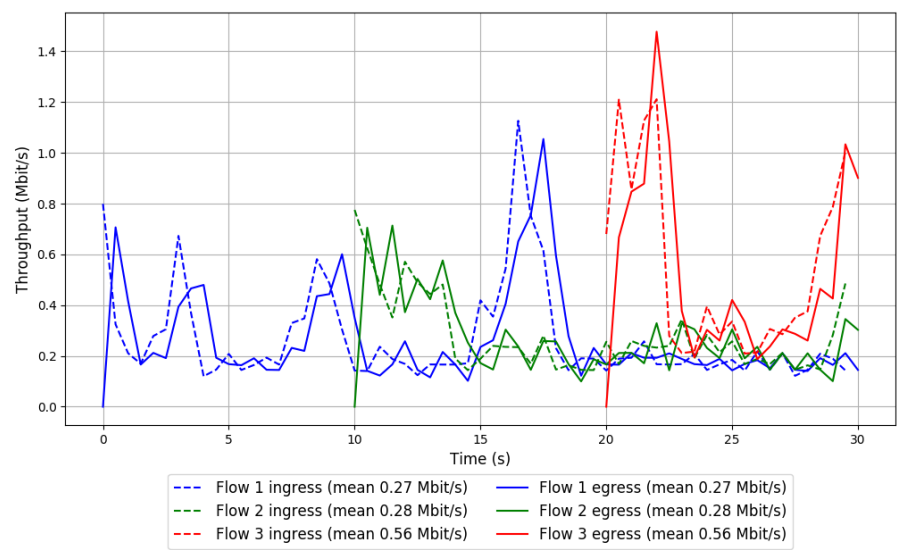


Run 5: Statistics of Sprout

Start at: 2018-08-22 20:29:35
End at: 2018-08-22 20:30:05
Local clock offset: -9.938 ms
Remote clock offset: 3.691 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 85.003 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 84.976 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 82.390 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 85.301 ms
Loss rate: 0.96%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-22 20:50:44

End at: 2018-08-22 20:51:14

Local clock offset: -9.88 ms

Remote clock offset: 3.031 ms

Below is generated by plot.py at 2018-08-22 22:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 81.020 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 80.848 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 79.394 ms

Loss rate: 0.38%

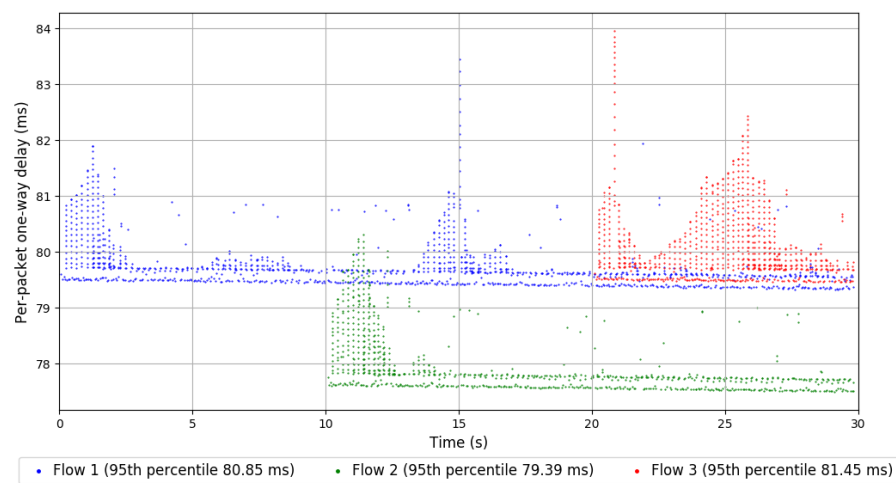
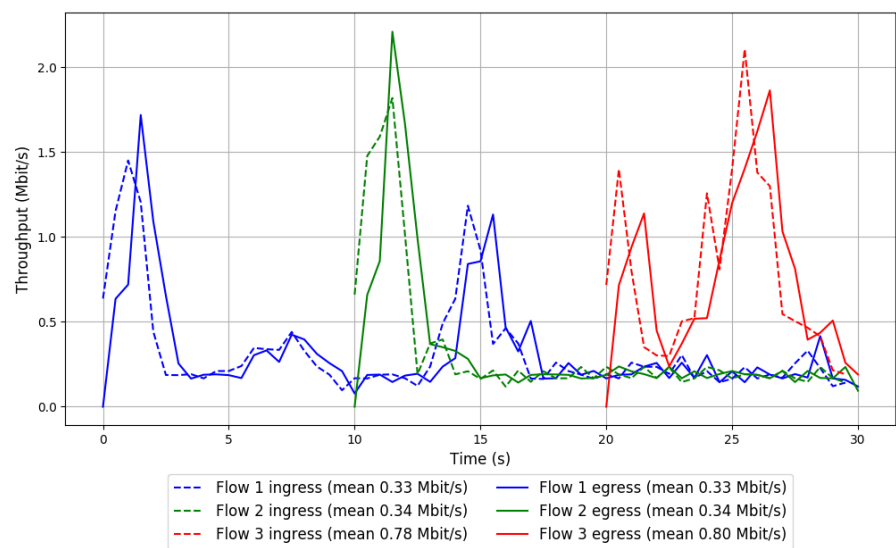
-- Flow 3:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 81.452 ms

Loss rate: 0.03%

Run 6: Report of Sprout — Data Link

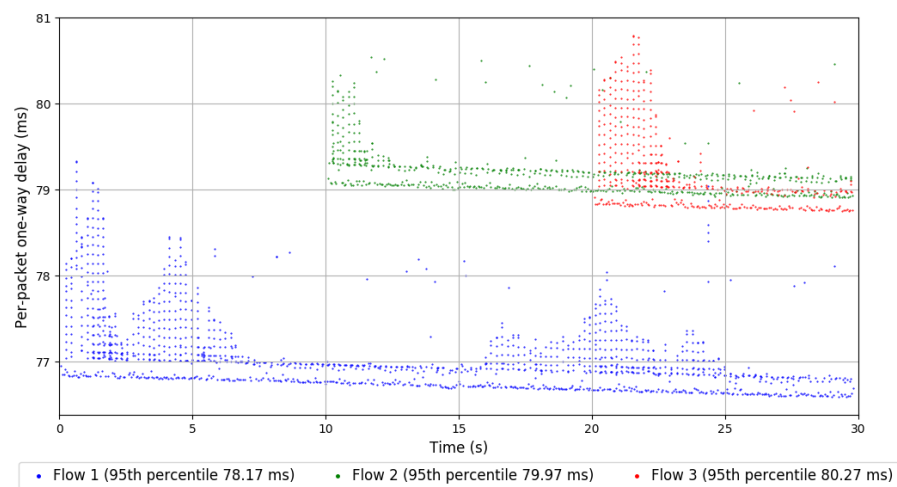
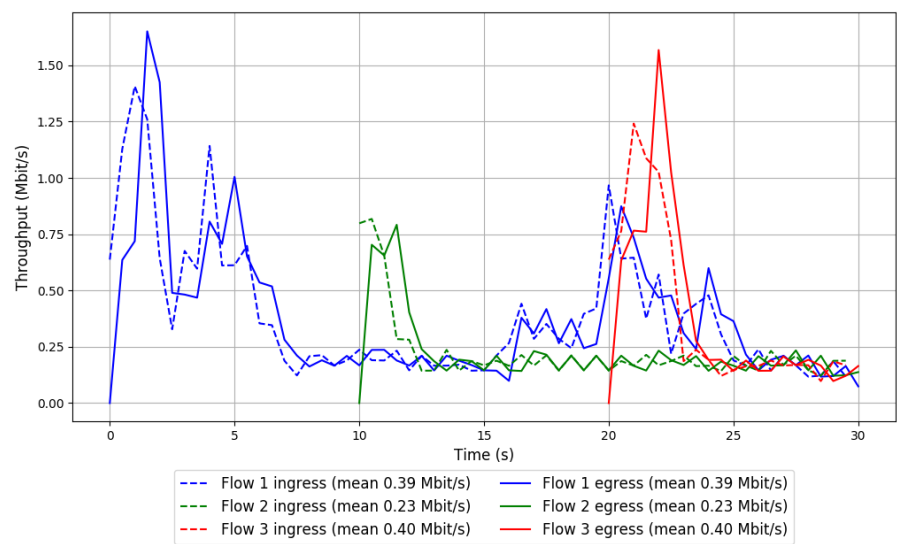


Run 7: Statistics of Sprout

Start at: 2018-08-22 21:11:45
End at: 2018-08-22 21:12:15
Local clock offset: -8.574 ms
Remote clock offset: -1.598 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 79.766 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 78.174 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 79.974 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 80.271 ms
Loss rate: 0.90%

Run 7: Report of Sprout — Data Link

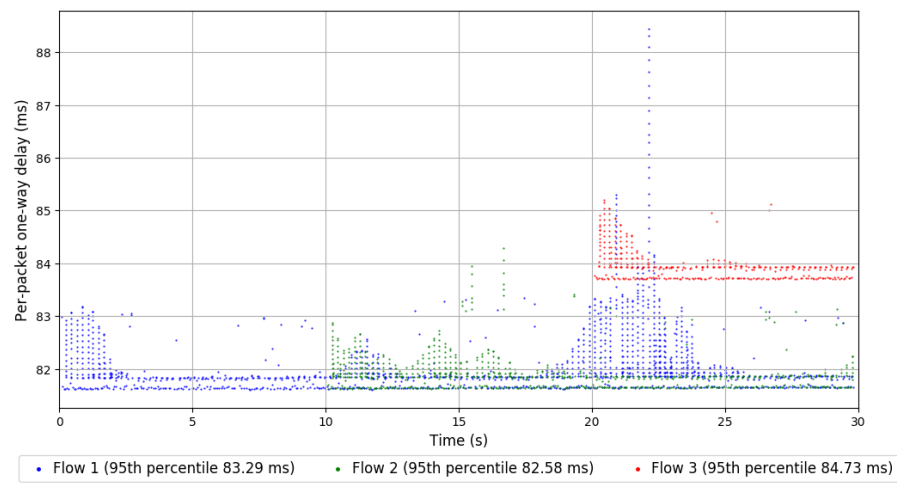
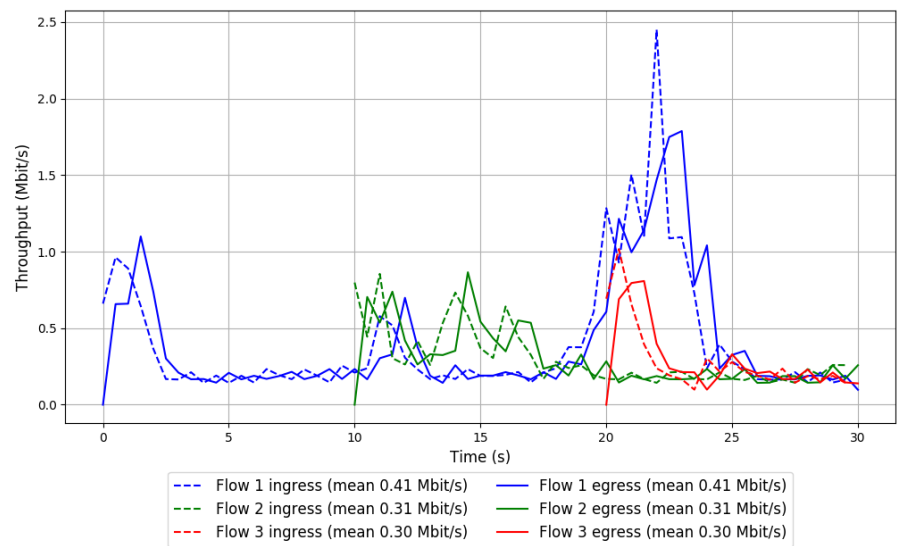


Run 8: Statistics of Sprout

Start at: 2018-08-22 21:32:59
End at: 2018-08-22 21:33:29
Local clock offset: -4.278 ms
Remote clock offset: 1.423 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 84.006 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 83.293 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 82.582 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 84.729 ms
Loss rate: 0.81%

Run 8: Report of Sprout — Data Link

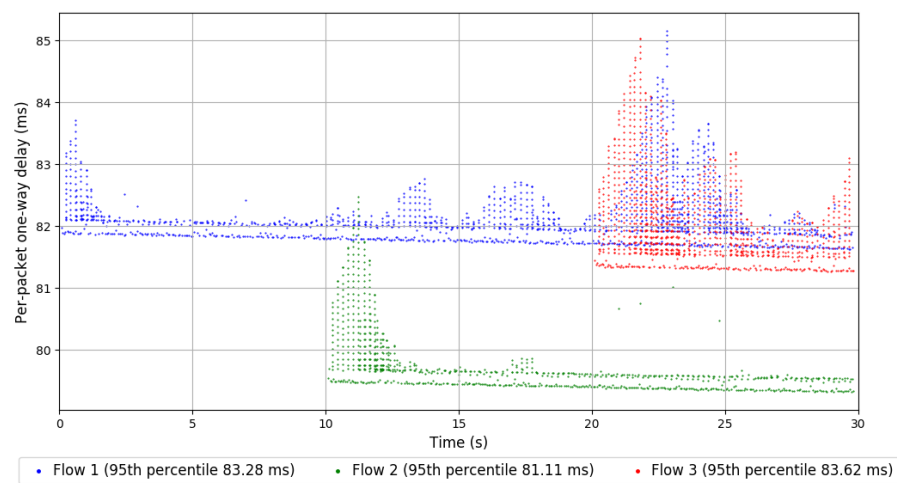
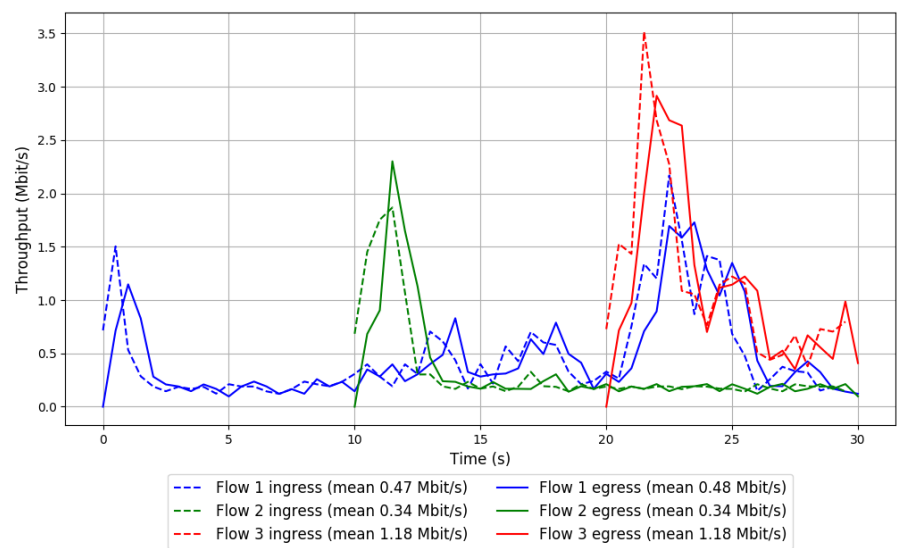


Run 9: Statistics of Sprout

Start at: 2018-08-22 21:54:04
End at: 2018-08-22 21:54:34
Local clock offset: -2.523 ms
Remote clock offset: 3.215 ms

Below is generated by plot.py at 2018-08-22 22:47:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 83.236 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 83.279 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 81.115 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 83.621 ms
Loss rate: 1.67%

Run 9: Report of Sprout — Data Link

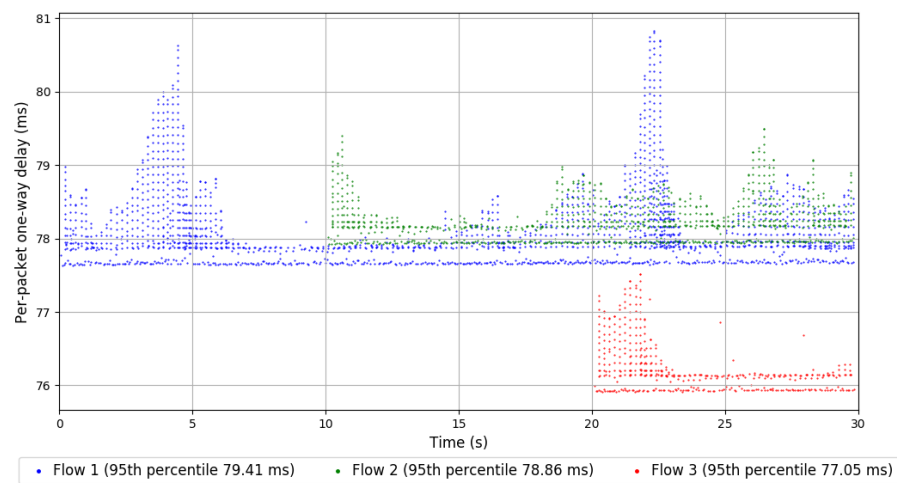
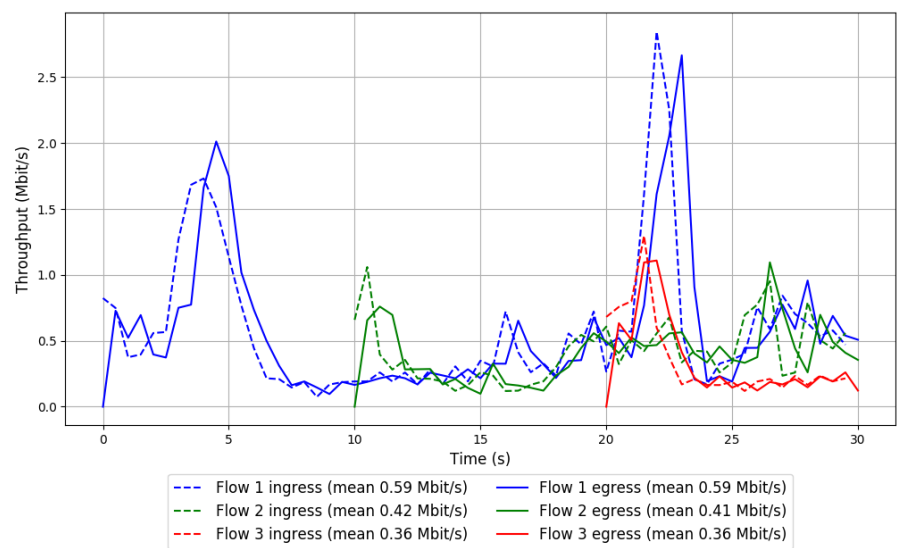


Run 10: Statistics of Sprout

Start at: 2018-08-22 22:15:02
End at: 2018-08-22 22:15:32
Local clock offset: -5.972 ms
Remote clock offset: 0.82 ms

```
# Below is generated by plot.py at 2018-08-22 22:47:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 79.069 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 79.407 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 78.860 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 77.054 ms
Loss rate: 1.32%
```


Run 10: Report of Sprout — Data Link

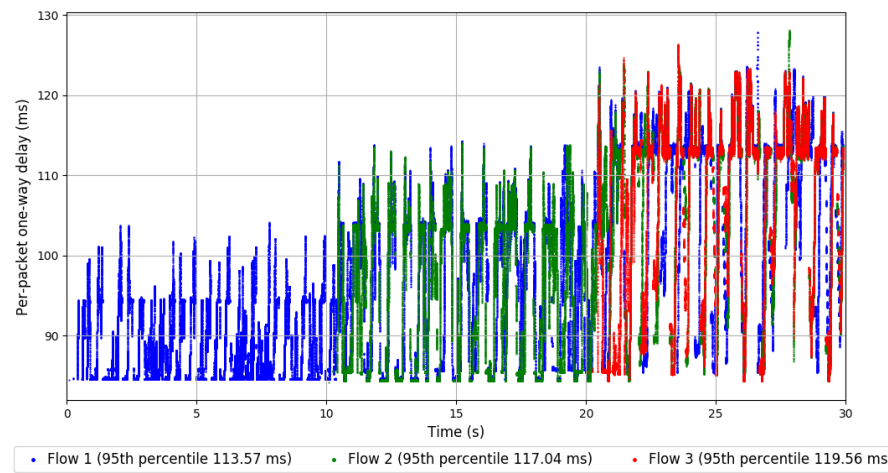
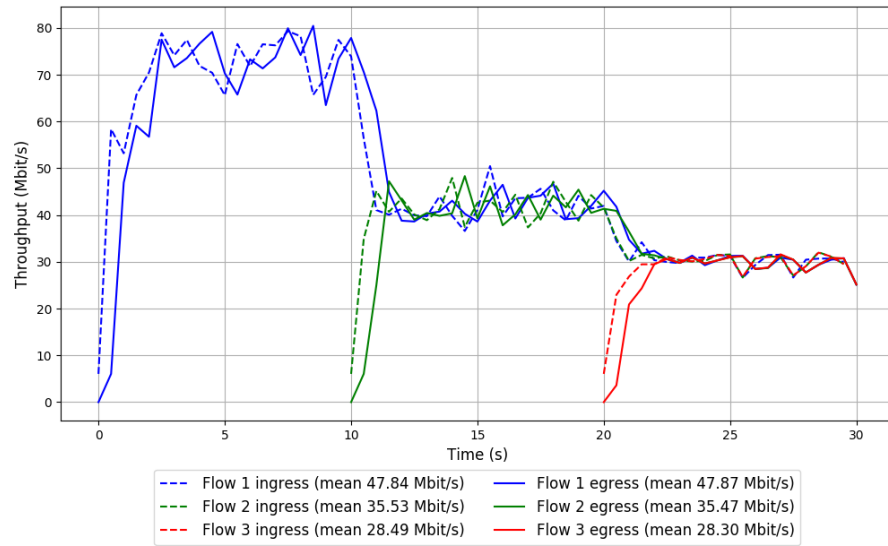


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-22 19:19:49
End at: 2018-08-22 19:20:19
Local clock offset: -4.973 ms
Remote clock offset: 3.835 ms

# Below is generated by plot.py at 2018-08-22 22:48:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.75 Mbit/s
95th percentile per-packet one-way delay: 116.281 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 113.572 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 117.044 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 28.30 Mbit/s
95th percentile per-packet one-way delay: 119.564 ms
Loss rate: 2.32%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-22 19:40:57

End at: 2018-08-22 19:41:27

Local clock offset: -5.577 ms

Remote clock offset: 8.897 ms

Below is generated by plot.py at 2018-08-22 22:48:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 109.672 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 48.09 Mbit/s

95th percentile per-packet one-way delay: 106.232 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 35.08 Mbit/s

95th percentile per-packet one-way delay: 111.736 ms

Loss rate: 0.97%

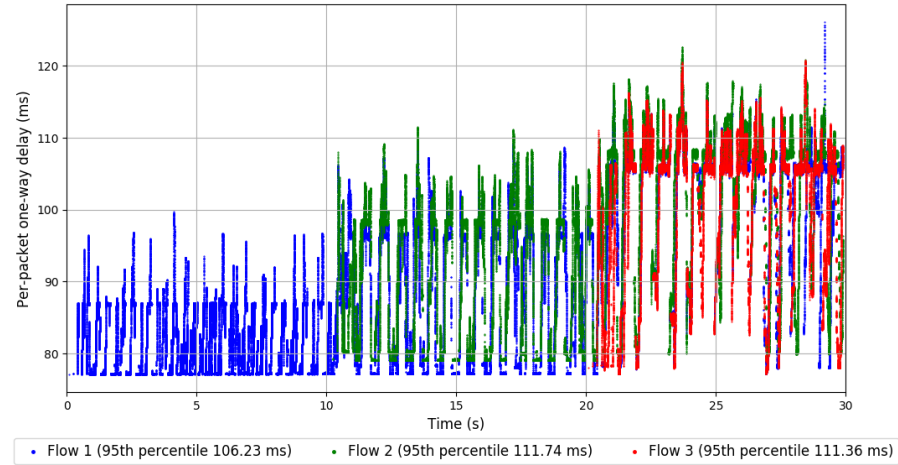
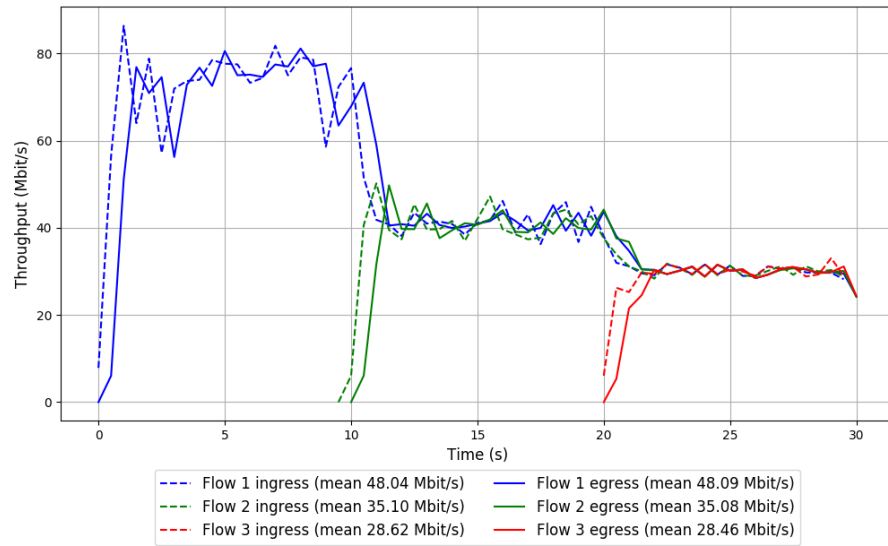
-- Flow 3:

Average throughput: 28.46 Mbit/s

95th percentile per-packet one-way delay: 111.358 ms

Loss rate: 2.39%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-22 20:02:15

End at: 2018-08-22 20:02:45

Local clock offset: -8.218 ms

Remote clock offset: 2.837 ms

Below is generated by plot.py at 2018-08-22 22:48:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 116.404 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 113.865 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 33.50 Mbit/s

95th percentile per-packet one-way delay: 116.279 ms

Loss rate: 0.96%

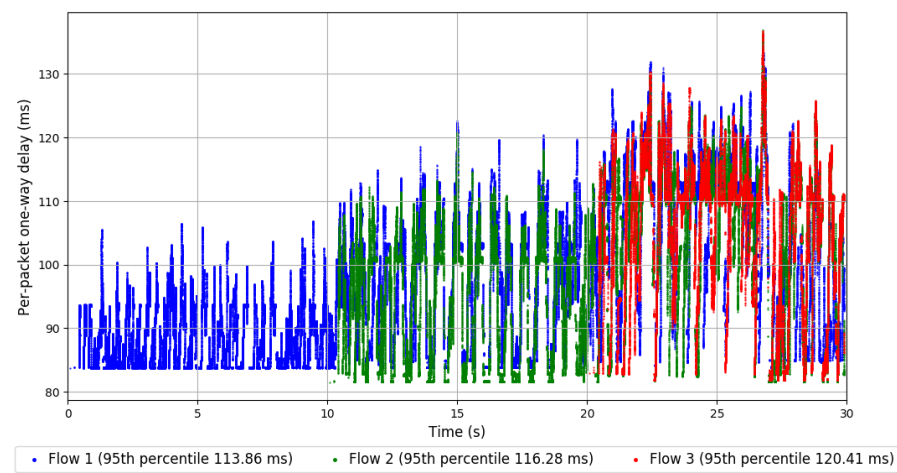
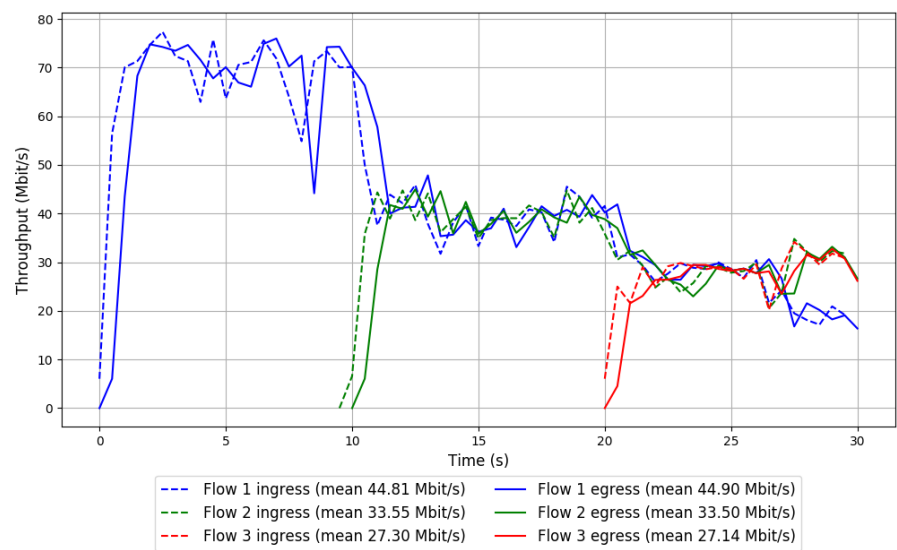
-- Flow 3:

Average throughput: 27.14 Mbit/s

95th percentile per-packet one-way delay: 120.411 ms

Loss rate: 2.21%

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

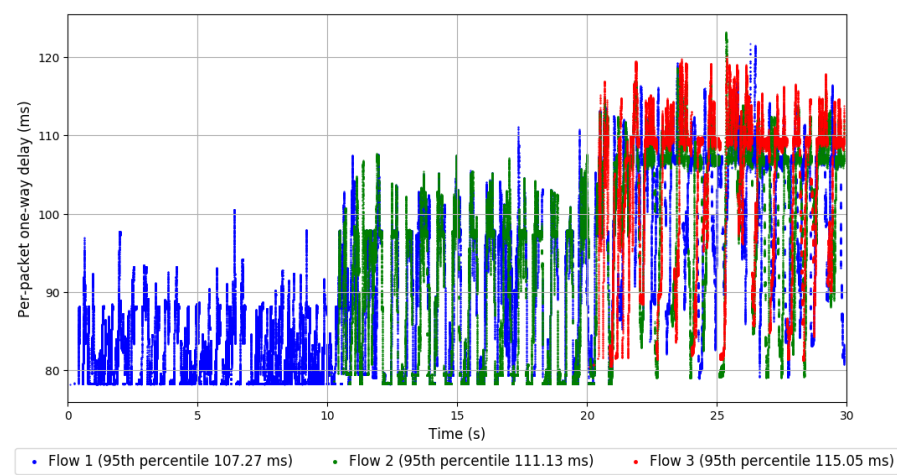
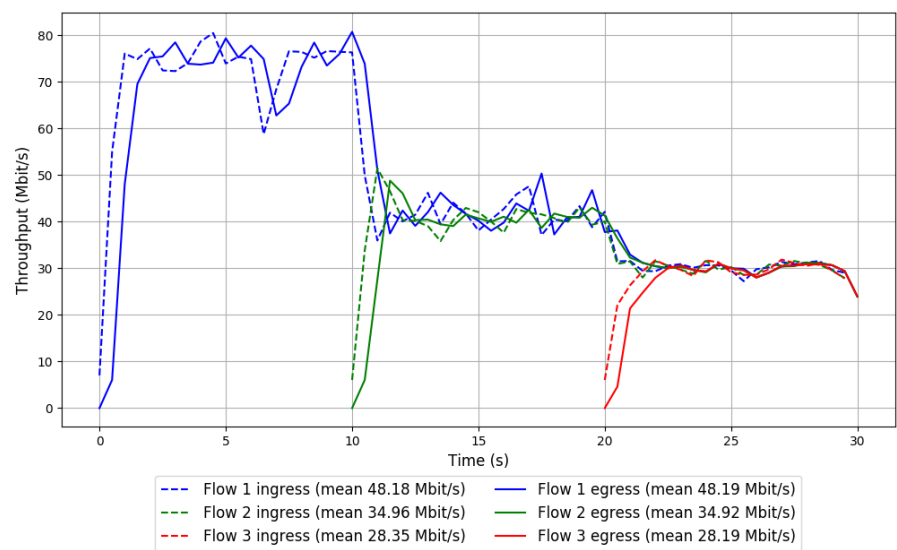


Run 4: Statistics of TaoVA-100x

Start at: 2018-08-22 20:23:18
End at: 2018-08-22 20:23:48
Local clock offset: -10.346 ms
Remote clock offset: 6.133 ms

Below is generated by plot.py at 2018-08-22 22:48:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.65 Mbit/s
95th percentile per-packet one-way delay: 110.997 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 48.19 Mbit/s
95th percentile per-packet one-way delay: 107.267 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 34.92 Mbit/s
95th percentile per-packet one-way delay: 111.132 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 115.045 ms
Loss rate: 2.20%

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

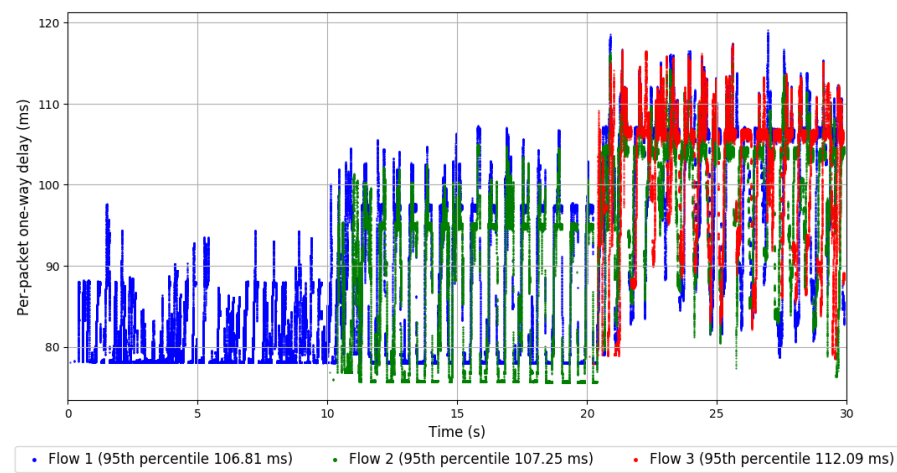
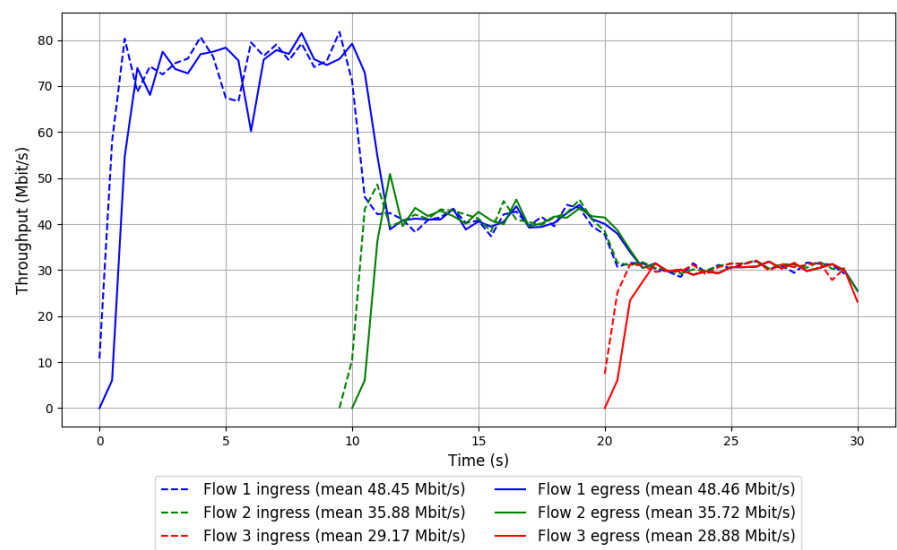


Run 5: Statistics of TaoVA-100x

Start at: 2018-08-22 20:44:19
End at: 2018-08-22 20:44:49
Local clock offset: -10.771 ms
Remote clock offset: 7.197 ms

Below is generated by plot.py at 2018-08-22 22:48:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.70 Mbit/s
95th percentile per-packet one-way delay: 108.455 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 48.46 Mbit/s
95th percentile per-packet one-way delay: 106.815 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 107.255 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 112.090 ms
Loss rate: 2.69%

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

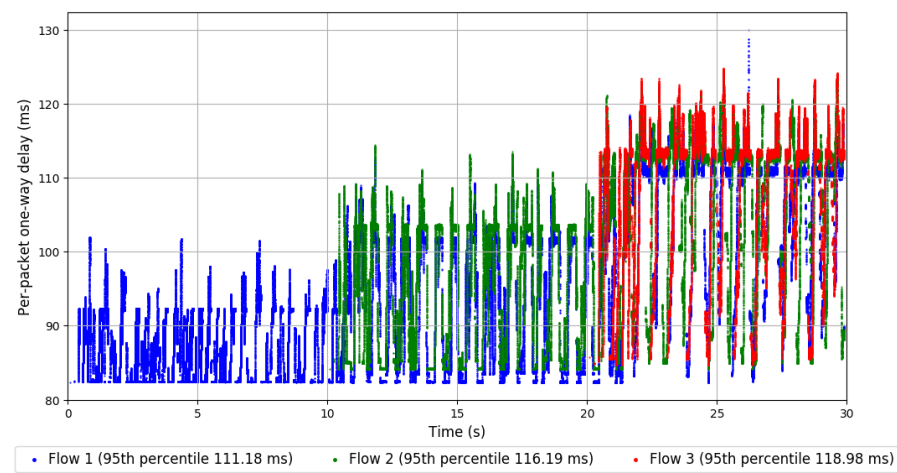
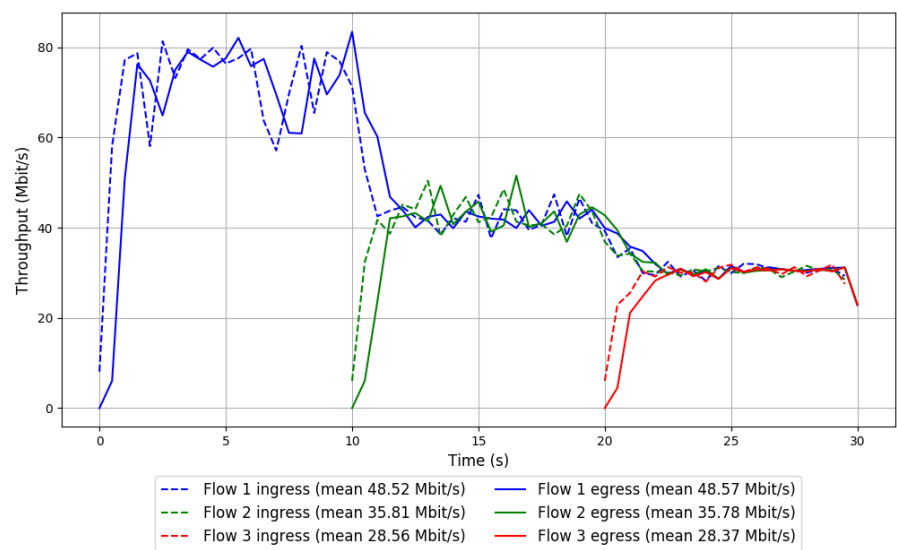


Run 6: Statistics of TaoVA-100x

Start at: 2018-08-22 21:05:28
End at: 2018-08-22 21:05:58
Local clock offset: -9.421 ms
Remote clock offset: -4.369 ms

Below is generated by plot.py at 2018-08-22 22:48:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.68 Mbit/s
95th percentile per-packet one-way delay: 114.664 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 48.57 Mbit/s
95th percentile per-packet one-way delay: 111.182 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 35.78 Mbit/s
95th percentile per-packet one-way delay: 116.188 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 118.977 ms
Loss rate: 2.16%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-22 21:26:41

End at: 2018-08-22 21:27:11

Local clock offset: -4.797 ms

Remote clock offset: 4.908 ms

Below is generated by plot.py at 2018-08-22 22:48:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.01 Mbit/s

95th percentile per-packet one-way delay: 108.907 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 108.087 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 108.741 ms

Loss rate: 0.90%

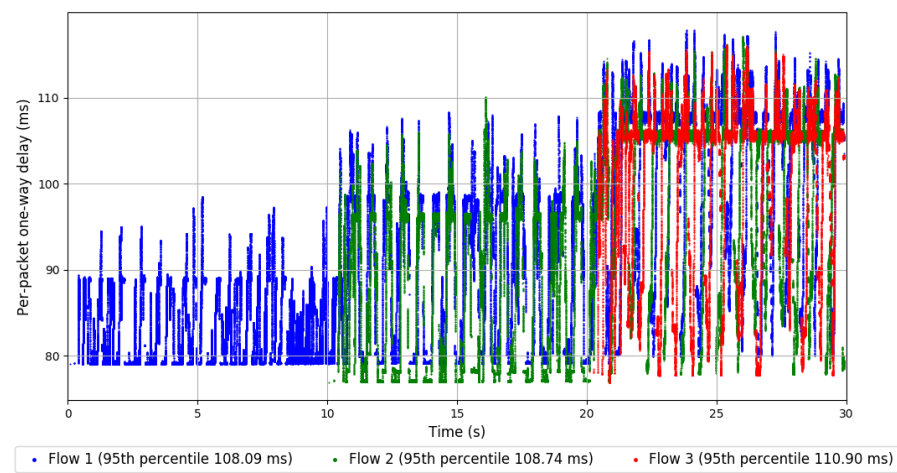
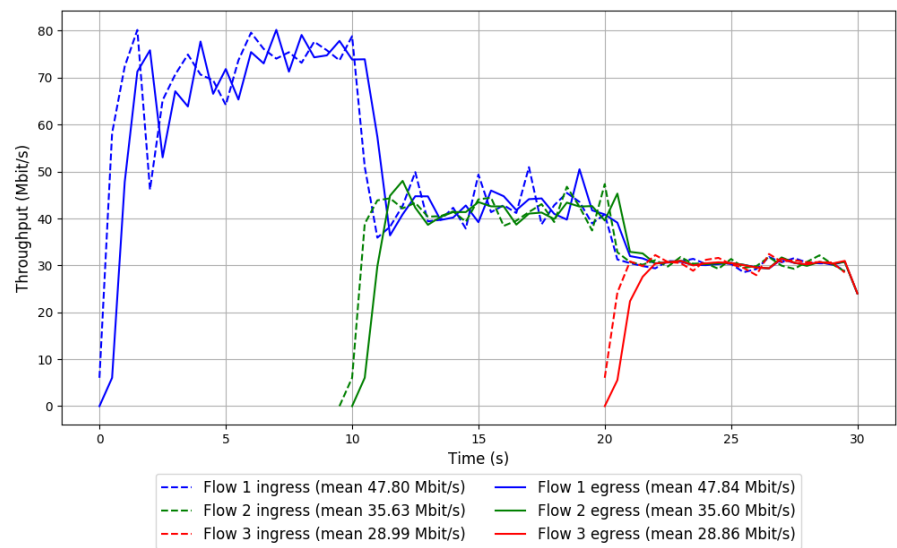
-- Flow 3:

Average throughput: 28.86 Mbit/s

95th percentile per-packet one-way delay: 110.901 ms

Loss rate: 2.07%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-22 21:47:48

End at: 2018-08-22 21:48:18

Local clock offset: -2.752 ms

Remote clock offset: 6.197 ms

Below is generated by plot.py at 2018-08-22 22:49:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 109.570 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 109.216 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 36.96 Mbit/s

95th percentile per-packet one-way delay: 107.845 ms

Loss rate: 0.98%

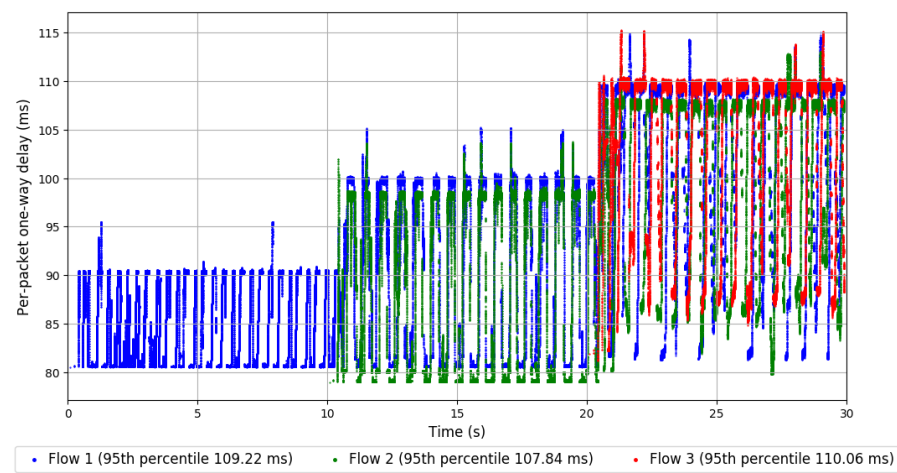
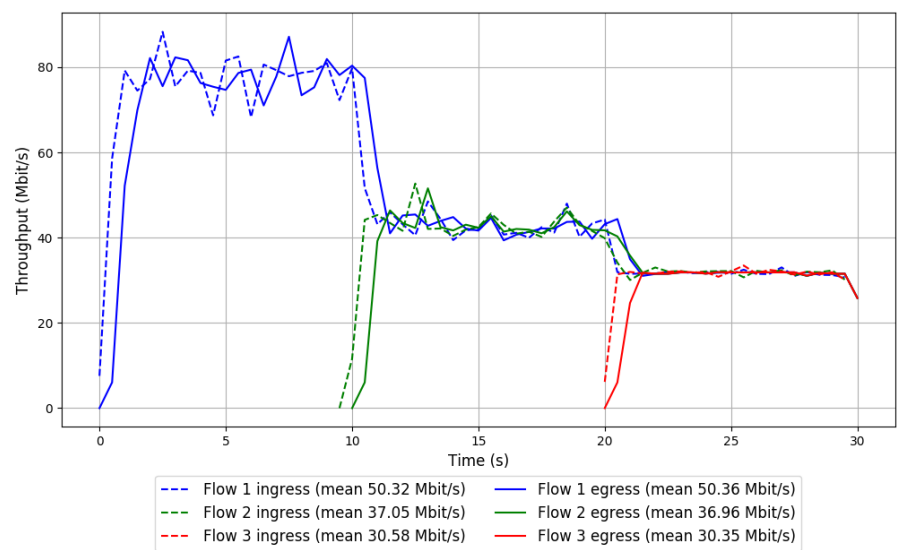
-- Flow 3:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 110.062 ms

Loss rate: 2.32%

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

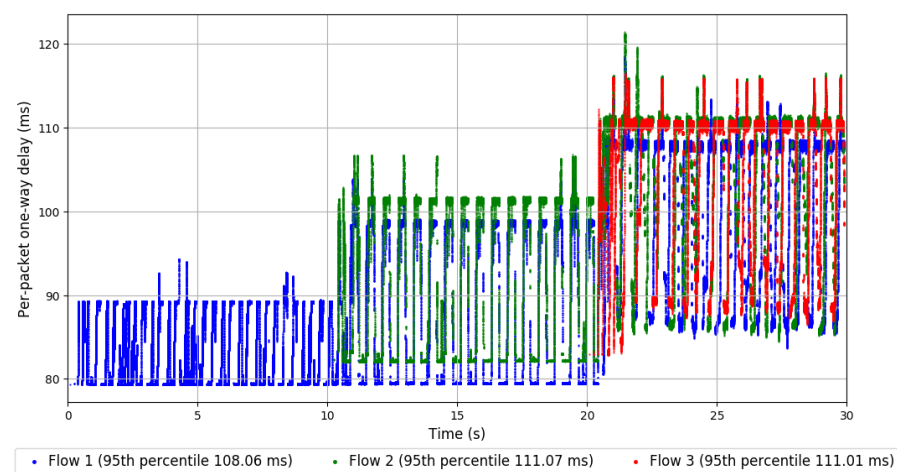
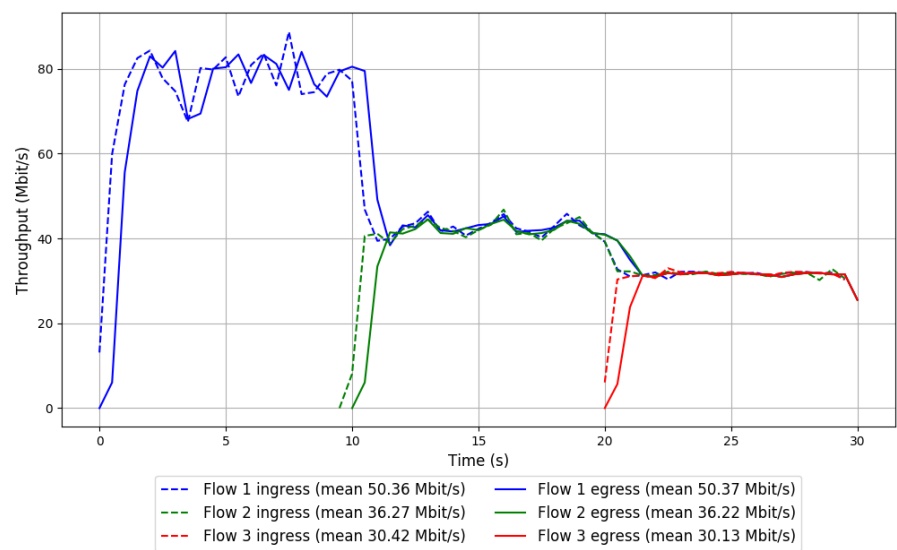


Run 9: Statistics of TaoVA-100x

Start at: 2018-08-22 22:08:46
End at: 2018-08-22 22:09:16
Local clock offset: -2.718 ms
Remote clock offset: -0.696 ms

Below is generated by plot.py at 2018-08-22 22:50:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 110.795 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 50.37 Mbit/s
95th percentile per-packet one-way delay: 108.060 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 36.22 Mbit/s
95th percentile per-packet one-way delay: 111.073 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 111.010 ms
Loss rate: 2.47%

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

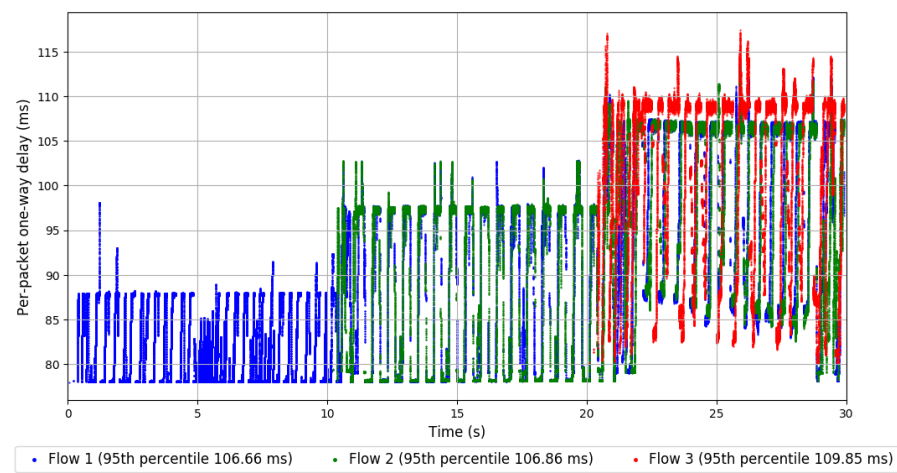
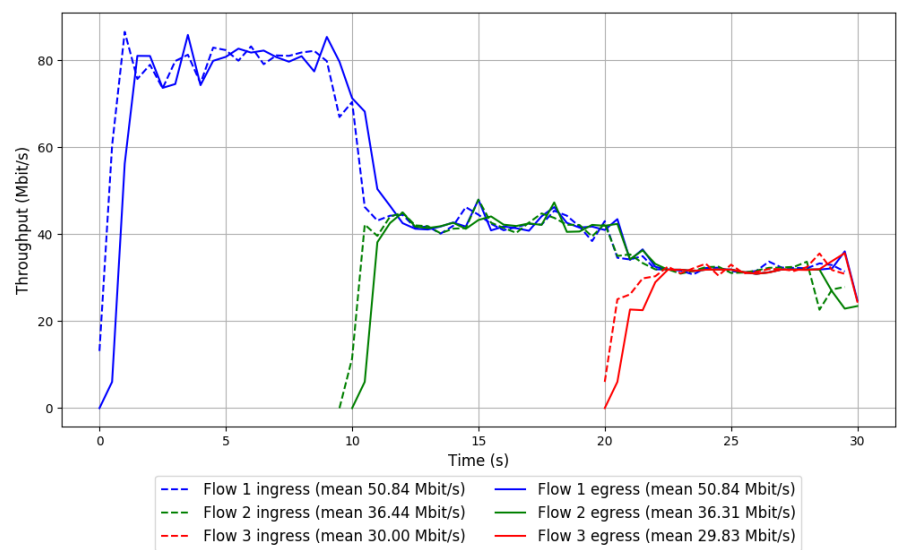


Run 10: Statistics of TaoVA-100x

Start at: 2018-08-22 22:29:45
End at: 2018-08-22 22:30:15
Local clock offset: -6.601 ms
Remote clock offset: -0.359 ms

Below is generated by plot.py at 2018-08-22 22:50:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 108.644 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 50.84 Mbit/s
95th percentile per-packet one-way delay: 106.659 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 106.863 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 109.851 ms
Loss rate: 2.09%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-22 19:18:36

End at: 2018-08-22 19:19:06

Local clock offset: -4.144 ms

Remote clock offset: 8.603 ms

Below is generated by plot.py at 2018-08-22 22:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.13 Mbit/s

95th percentile per-packet one-way delay: 89.453 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 88.137 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 23.83 Mbit/s

95th percentile per-packet one-way delay: 95.104 ms

Loss rate: 0.99%

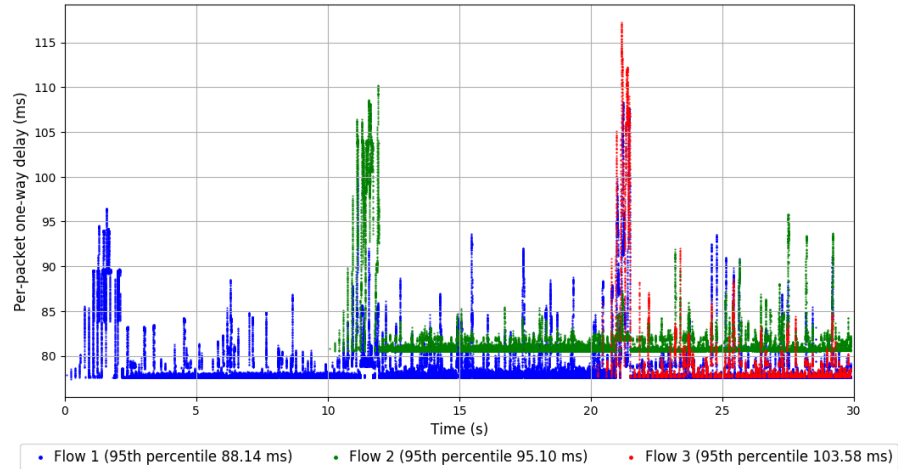
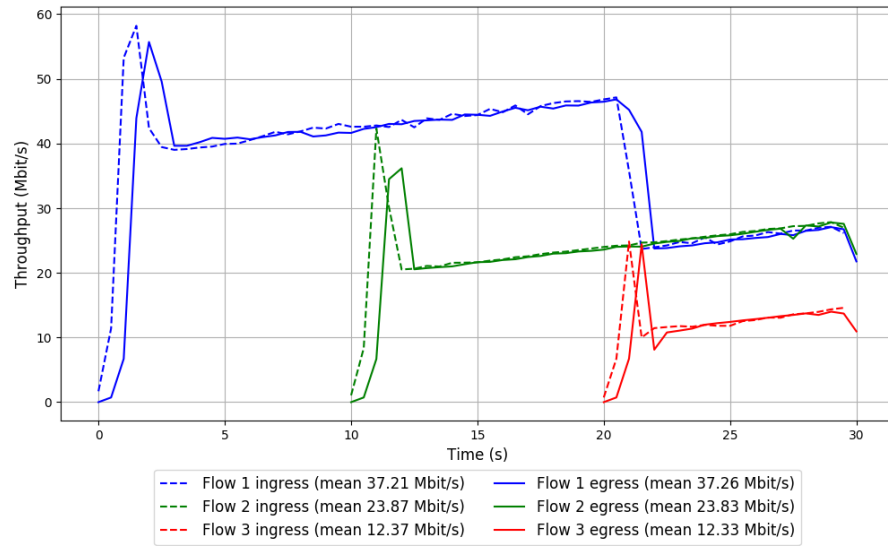
-- Flow 3:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 103.576 ms

Loss rate: 2.02%

Run 1: Report of TCP Vegas — Data Link

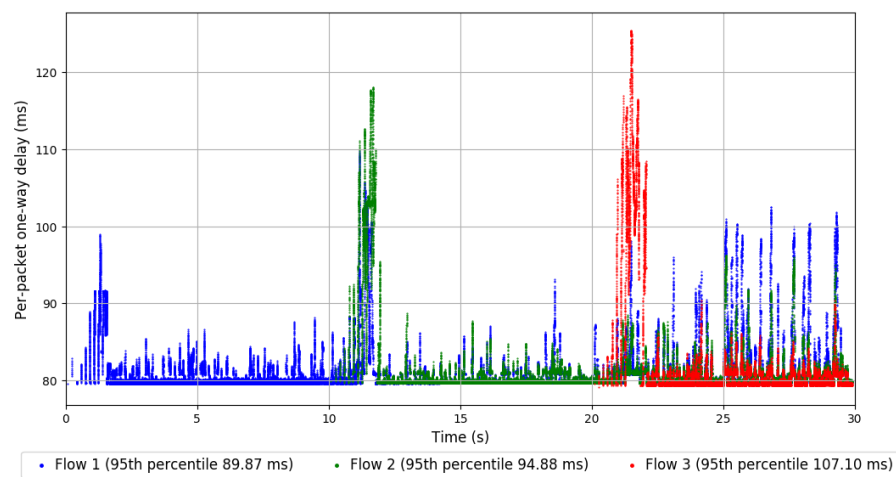
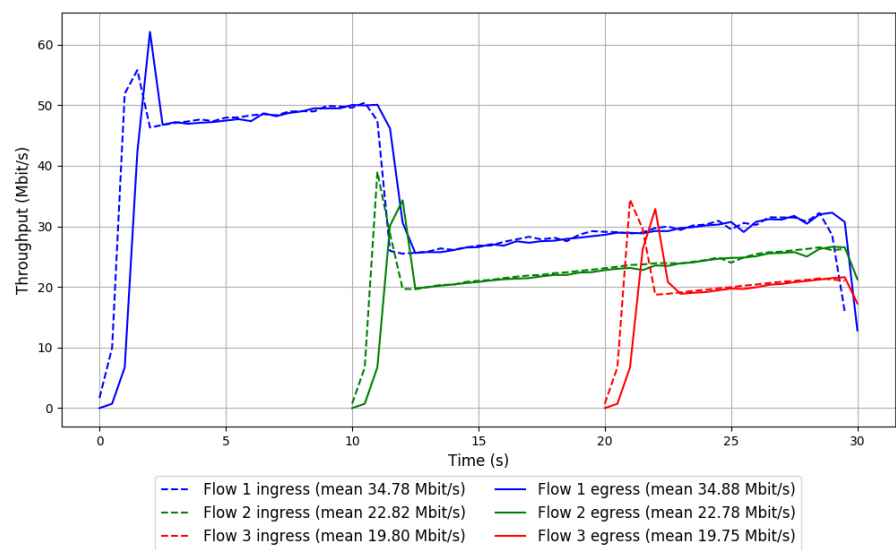


Run 2: Statistics of TCP Vegas

Start at: 2018-08-22 19:39:44
End at: 2018-08-22 19:40:14
Local clock offset: -6.043 ms
Remote clock offset: 8.087 ms

Below is generated by plot.py at 2018-08-22 22:50:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 92.282 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 89.871 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 94.883 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 19.75 Mbit/s
95th percentile per-packet one-way delay: 107.102 ms
Loss rate: 1.87%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-22 20:01:01

End at: 2018-08-22 20:01:31

Local clock offset: -8.154 ms

Remote clock offset: 2.743 ms

Below is generated by plot.py at 2018-08-22 22:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.59 Mbit/s

95th percentile per-packet one-way delay: 94.317 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 91.692 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 23.73 Mbit/s

95th percentile per-packet one-way delay: 96.005 ms

Loss rate: 0.98%

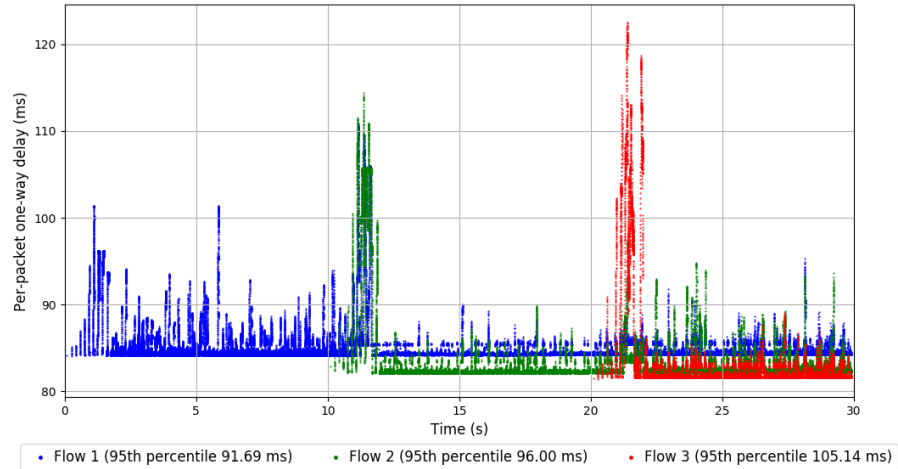
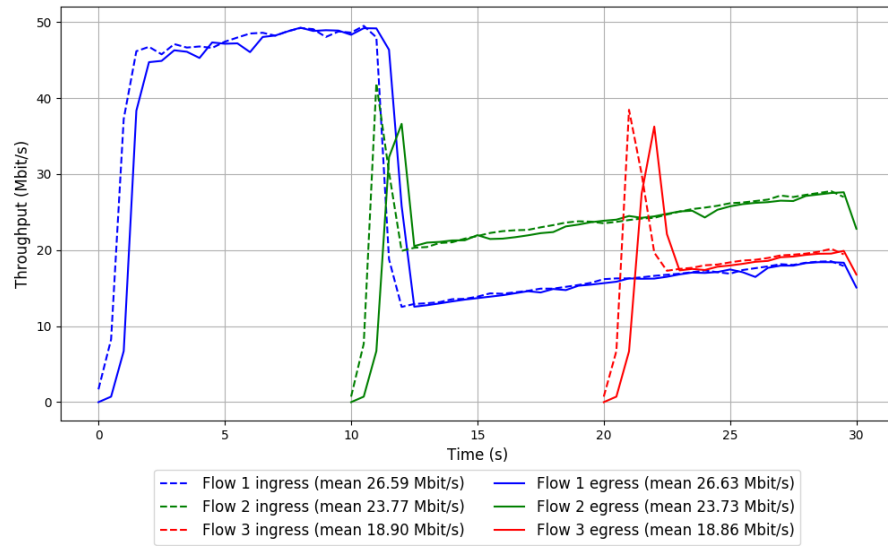
-- Flow 3:

Average throughput: 18.86 Mbit/s

95th percentile per-packet one-way delay: 105.138 ms

Loss rate: 1.78%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-22 20:22:05

End at: 2018-08-22 20:22:35

Local clock offset: -9.523 ms

Remote clock offset: 3.435 ms

Below is generated by plot.py at 2018-08-22 22:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 94.780 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 95.814 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 22.54 Mbit/s

95th percentile per-packet one-way delay: 94.019 ms

Loss rate: 0.58%

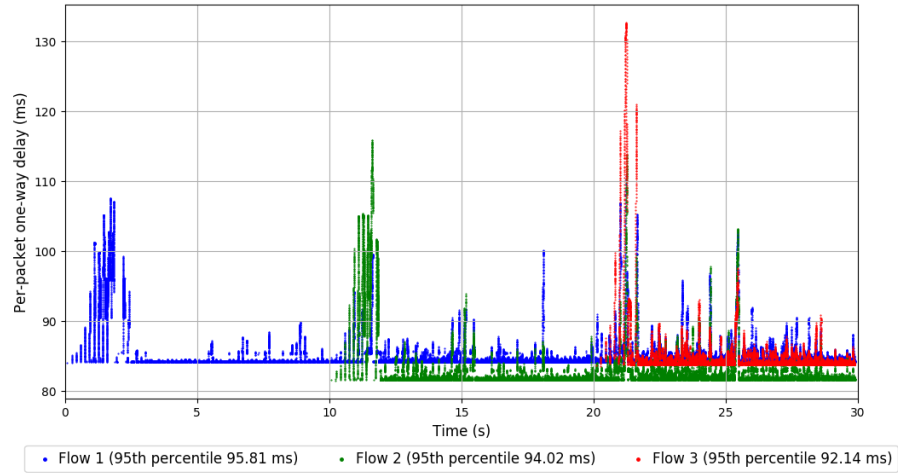
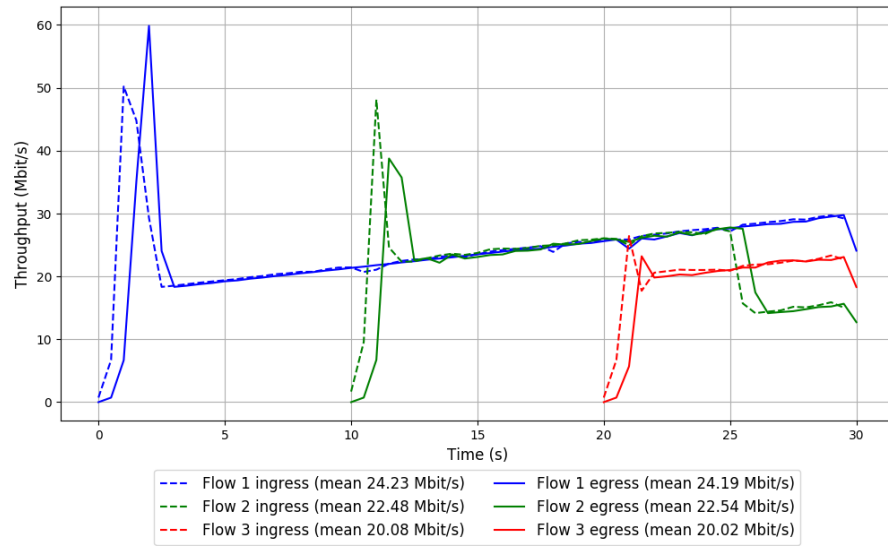
-- Flow 3:

Average throughput: 20.02 Mbit/s

95th percentile per-packet one-way delay: 92.136 ms

Loss rate: 1.99%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-22 20:43:06

End at: 2018-08-22 20:43:36

Local clock offset: -9.965 ms

Remote clock offset: 5.623 ms

Below is generated by plot.py at 2018-08-22 22:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.46 Mbit/s

95th percentile per-packet one-way delay: 93.146 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 37.55 Mbit/s

95th percentile per-packet one-way delay: 90.881 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 25.46 Mbit/s

95th percentile per-packet one-way delay: 94.159 ms

Loss rate: 0.93%

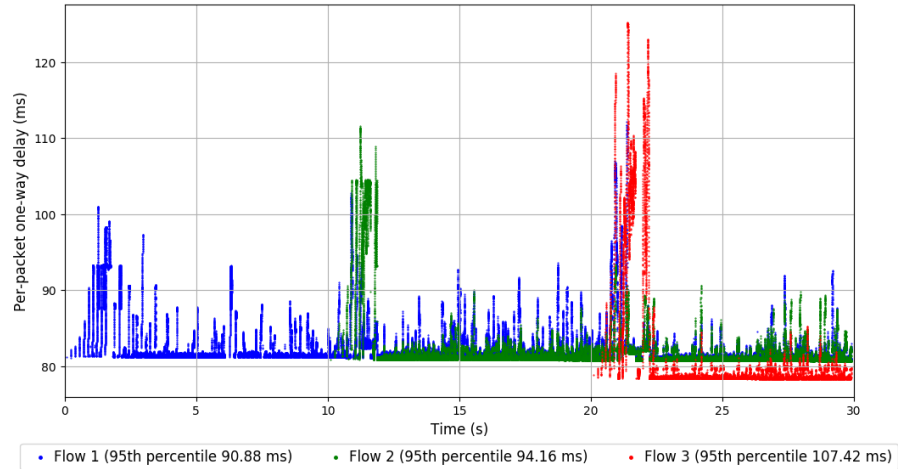
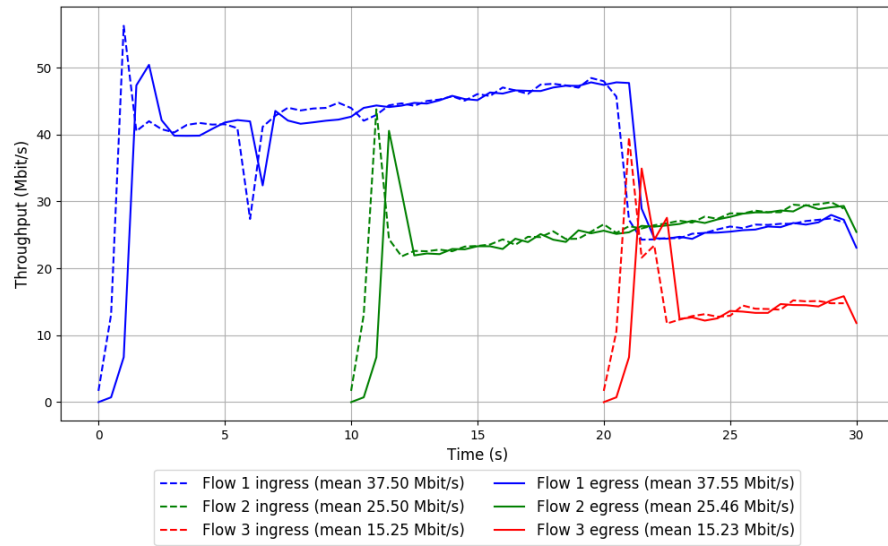
-- Flow 3:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 107.416 ms

Loss rate: 1.66%

Run 5: Report of TCP Vegas — Data Link

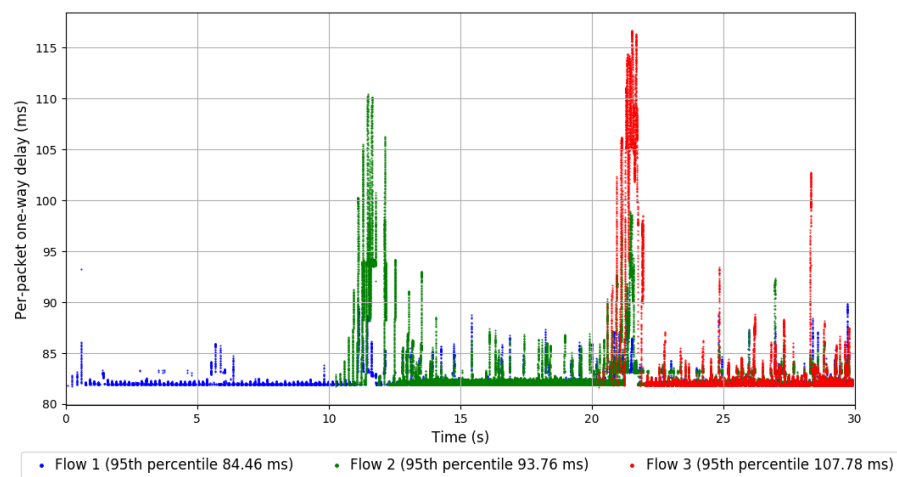
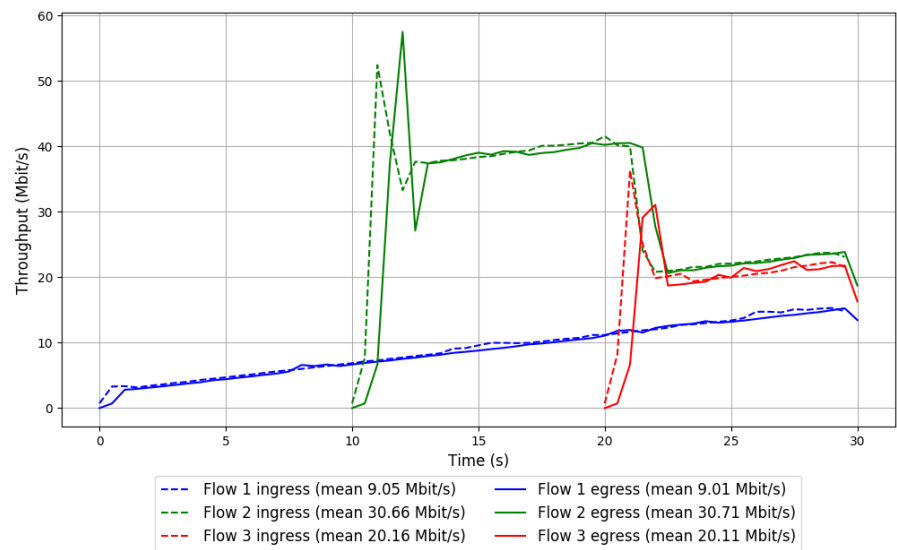


Run 6: Statistics of TCP Vegas

Start at: 2018-08-22 21:04:15
End at: 2018-08-22 21:04:45
Local clock offset: -10.16 ms
Remote clock offset: -4.264 ms

Below is generated by plot.py at 2018-08-22 22:50:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 93.823 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 9.01 Mbit/s
95th percentile per-packet one-way delay: 84.460 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 30.71 Mbit/s
95th percentile per-packet one-way delay: 93.763 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 20.11 Mbit/s
95th percentile per-packet one-way delay: 107.780 ms
Loss rate: 1.88%

Run 6: Report of TCP Vegas — Data Link

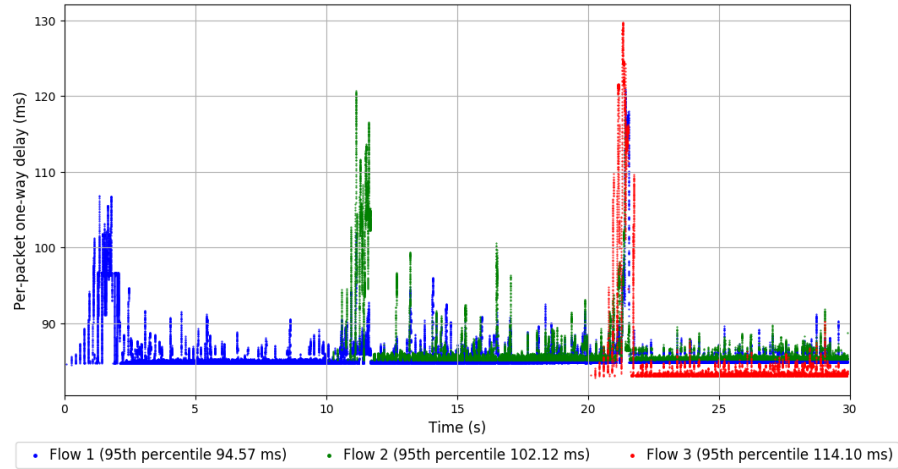
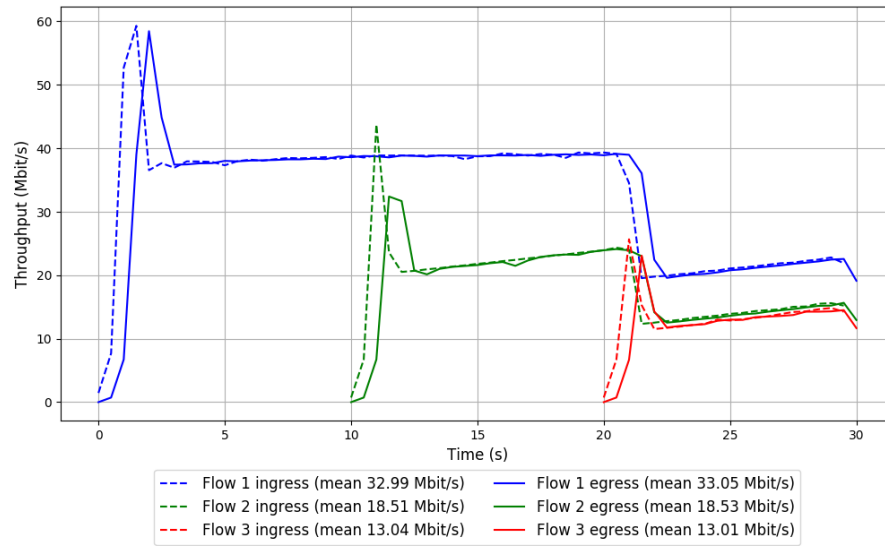


Run 7: Statistics of TCP Vegas

Start at: 2018-08-22 21:25:28
End at: 2018-08-22 21:25:58
Local clock offset: -4.864 ms
Remote clock offset: -1.351 ms

Below is generated by plot.py at 2018-08-22 22:50:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.63 Mbit/s
95th percentile per-packet one-way delay: 96.542 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 33.05 Mbit/s
95th percentile per-packet one-way delay: 94.568 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 18.53 Mbit/s
95th percentile per-packet one-way delay: 102.124 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 114.103 ms
Loss rate: 1.90%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-22 21:46:34

End at: 2018-08-22 21:47:04

Local clock offset: -3.579 ms

Remote clock offset: 5.04 ms

Below is generated by plot.py at 2018-08-22 22:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 93.182 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 40.25 Mbit/s

95th percentile per-packet one-way delay: 91.351 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 23.85 Mbit/s

95th percentile per-packet one-way delay: 95.724 ms

Loss rate: 0.91%

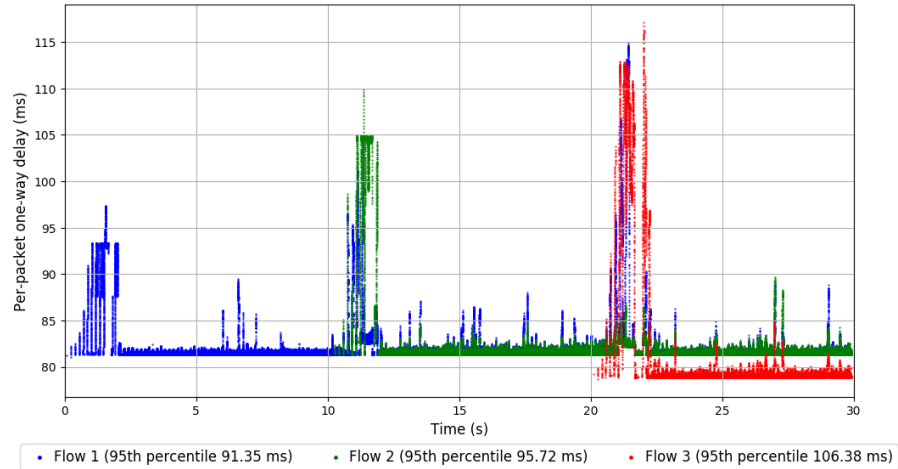
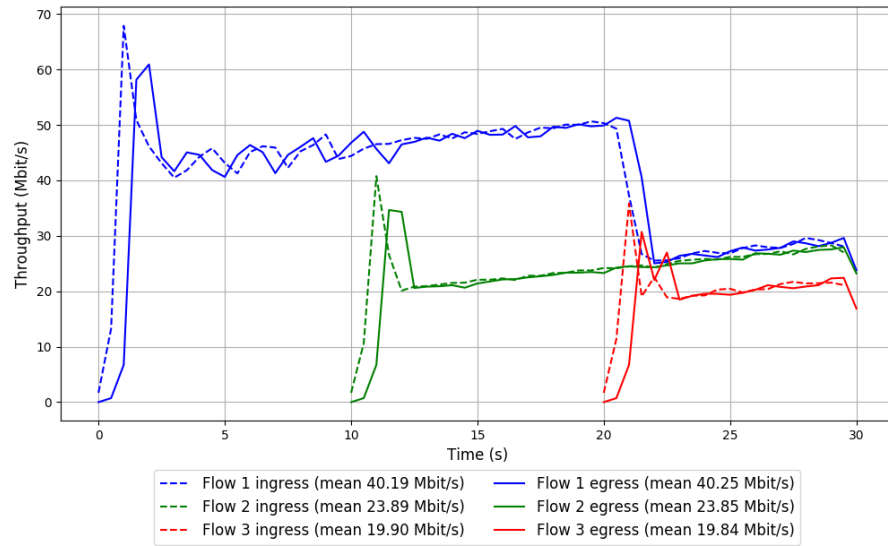
-- Flow 3:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 106.382 ms

Loss rate: 1.77%

Run 8: Report of TCP Vegas — Data Link

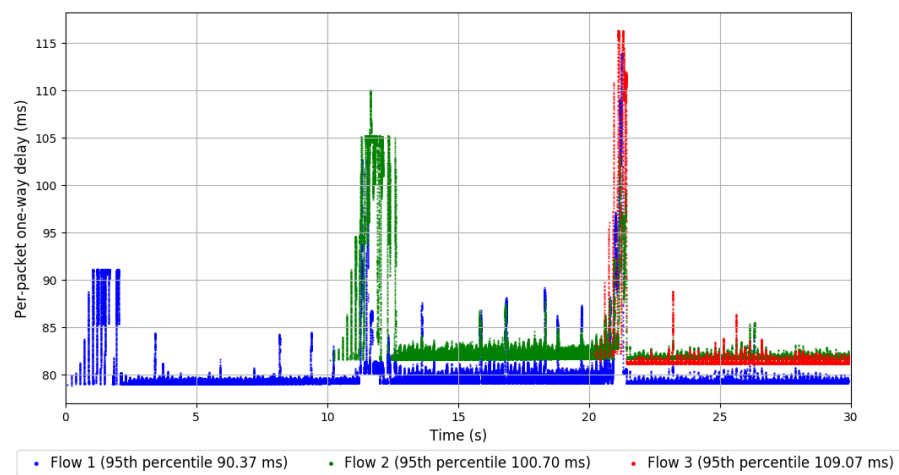
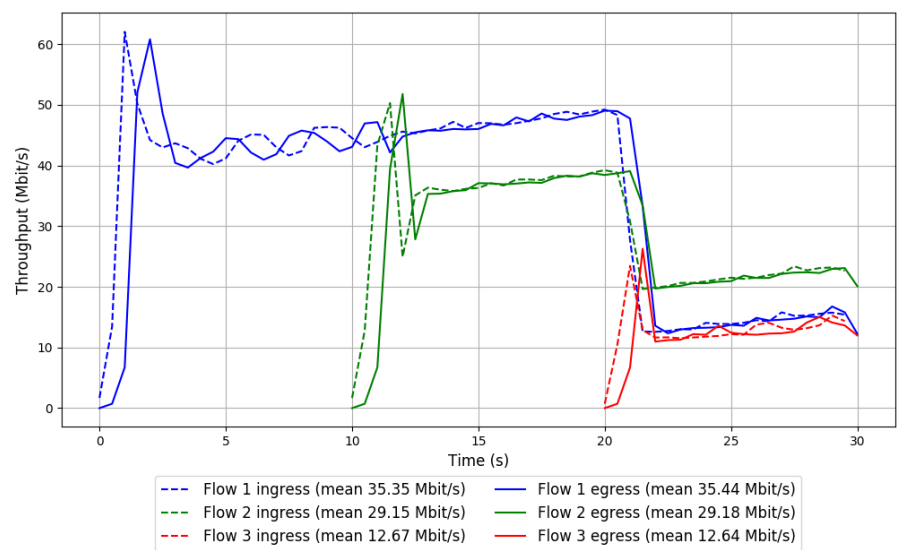


Run 9: Statistics of TCP Vegas

Start at: 2018-08-22 22:07:33
End at: 2018-08-22 22:08:03
Local clock offset: -3.098 ms
Remote clock offset: -0.779 ms

Below is generated by plot.py at 2018-08-22 22:50:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 91.300 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 35.44 Mbit/s
95th percentile per-packet one-way delay: 90.371 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 100.704 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 109.067 ms
Loss rate: 1.83%

Run 9: Report of TCP Vegas — Data Link

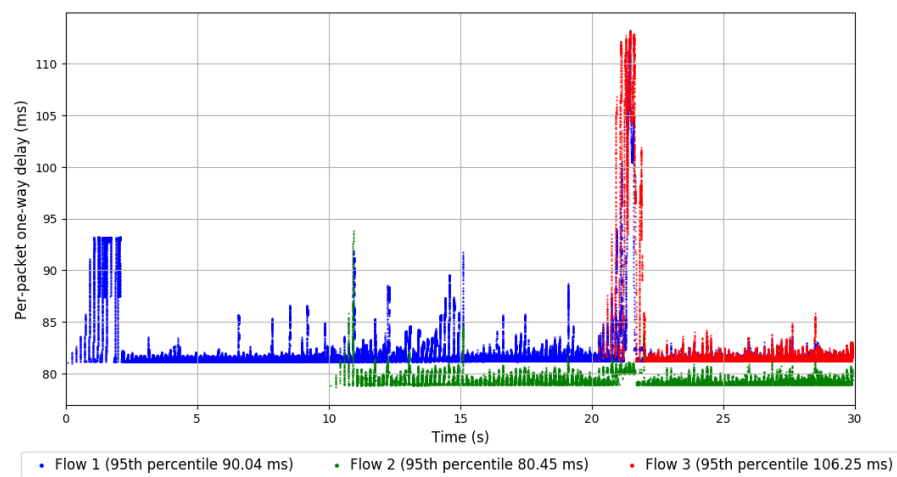
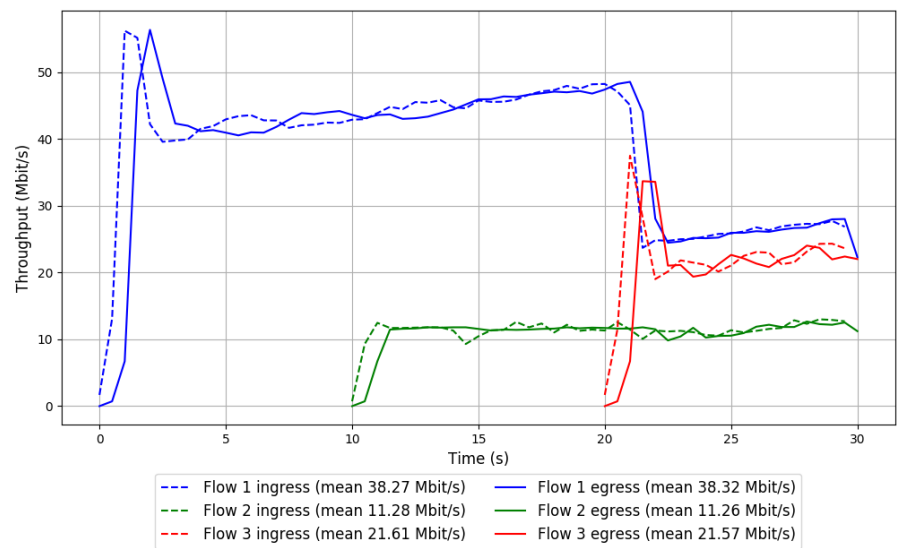


Run 10: Statistics of TCP Vegas

Start at: 2018-08-22 22:28:33
End at: 2018-08-22 22:29:03
Local clock offset: -6.539 ms
Remote clock offset: -1.559 ms

Below is generated by plot.py at 2018-08-22 22:50:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 91.615 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 38.32 Mbit/s
95th percentile per-packet one-way delay: 90.039 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 80.450 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 21.57 Mbit/s
95th percentile per-packet one-way delay: 106.248 ms
Loss rate: 1.75%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-22 19:02:35

End at: 2018-08-22 19:03:05

Local clock offset: -4.295 ms

Remote clock offset: 1.241 ms

Below is generated by plot.py at 2018-08-22 22:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.36 Mbit/s

95th percentile per-packet one-way delay: 117.407 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 112.158 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 30.91 Mbit/s

95th percentile per-packet one-way delay: 118.442 ms

Loss rate: 1.09%

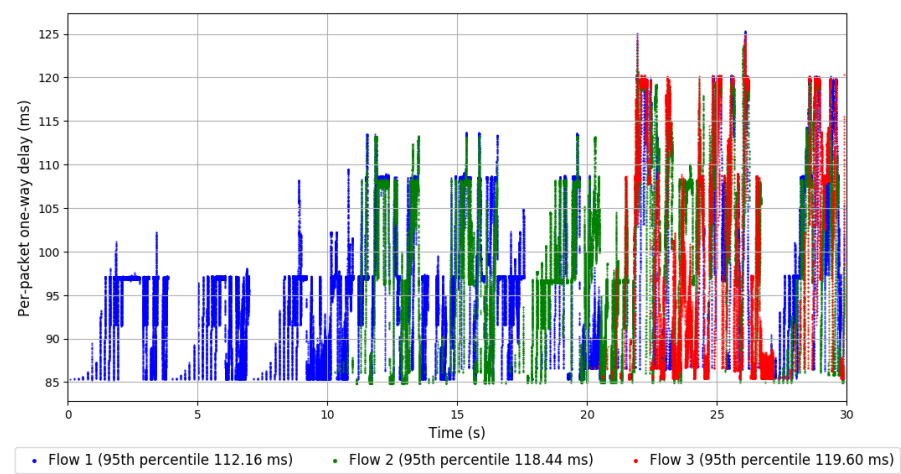
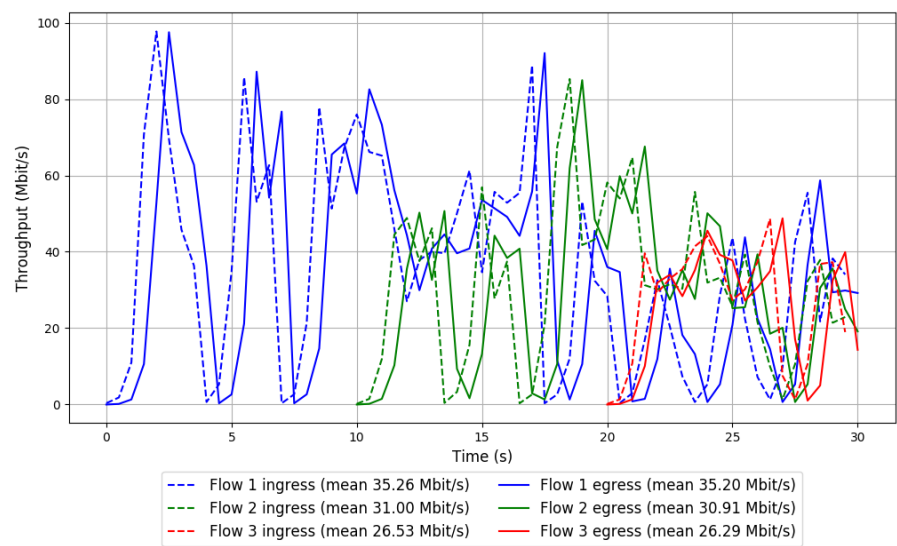
-- Flow 3:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 119.599 ms

Loss rate: 2.47%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-22 19:23:40

End at: 2018-08-22 19:24:10

Local clock offset: -3.413 ms

Remote clock offset: 5.382 ms

Below is generated by plot.py at 2018-08-22 22:50:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.53 Mbit/s

95th percentile per-packet one-way delay: 118.954 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 43.19 Mbit/s

95th percentile per-packet one-way delay: 116.428 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 25.54 Mbit/s

95th percentile per-packet one-way delay: 118.658 ms

Loss rate: 1.27%

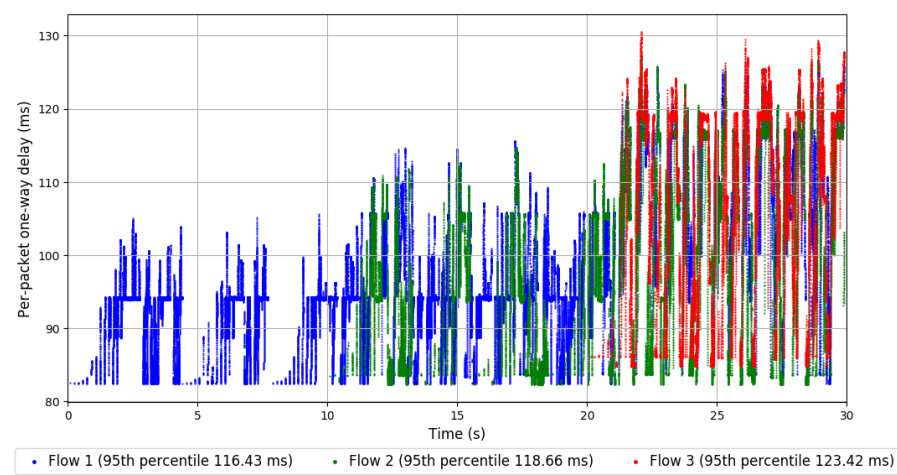
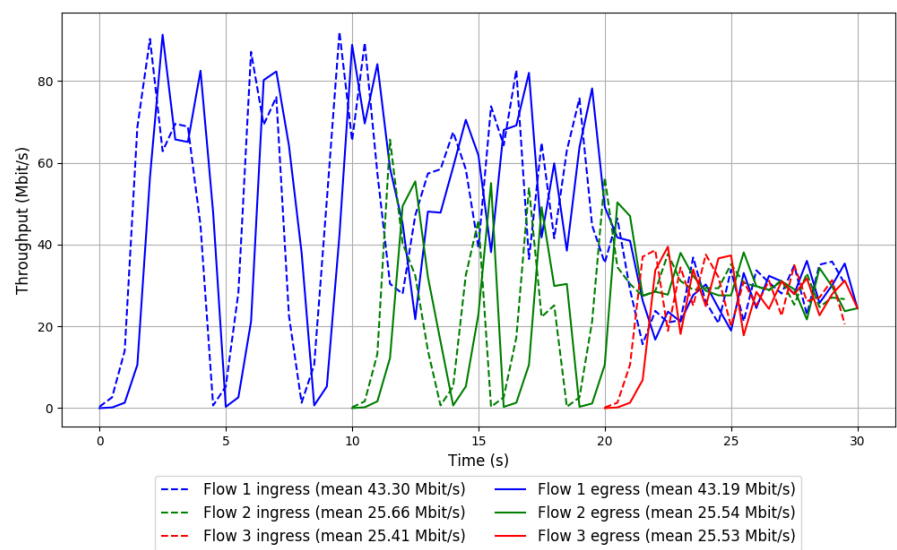
-- Flow 3:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 123.423 ms

Loss rate: 1.13%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-22 19:44:58

End at: 2018-08-22 19:45:28

Local clock offset: -6.408 ms

Remote clock offset: 6.303 ms

Below is generated by plot.py at 2018-08-22 22:50:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 113.552 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 113.223 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 113.685 ms

Loss rate: 1.32%

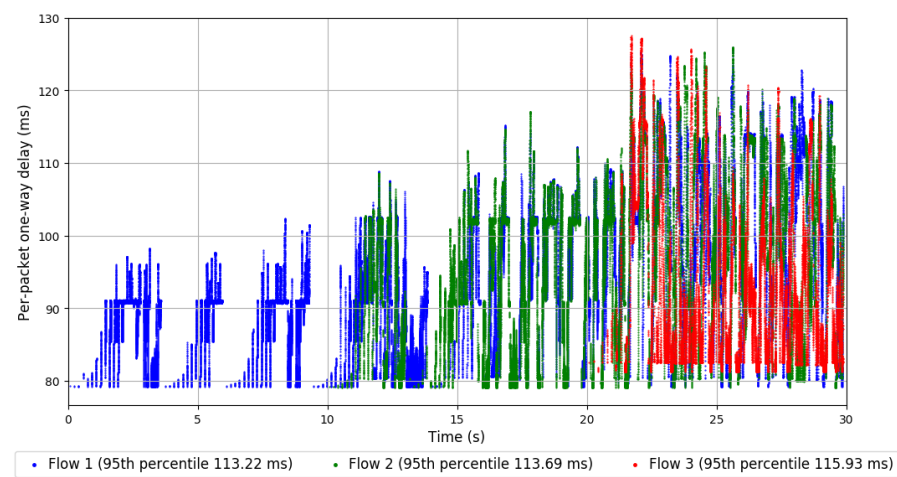
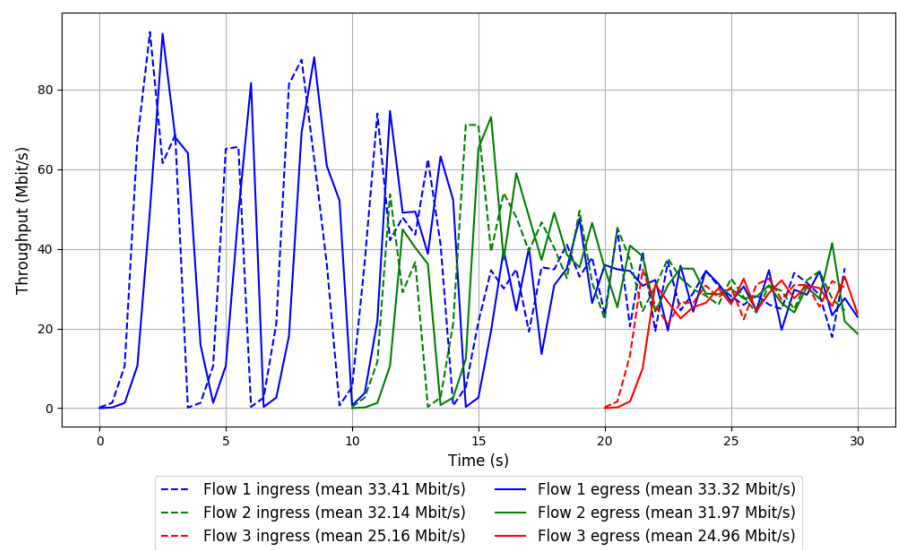
-- Flow 3:

Average throughput: 24.96 Mbit/s

95th percentile per-packet one-way delay: 115.927 ms

Loss rate: 2.48%

Run 3: Report of Verus — Data Link

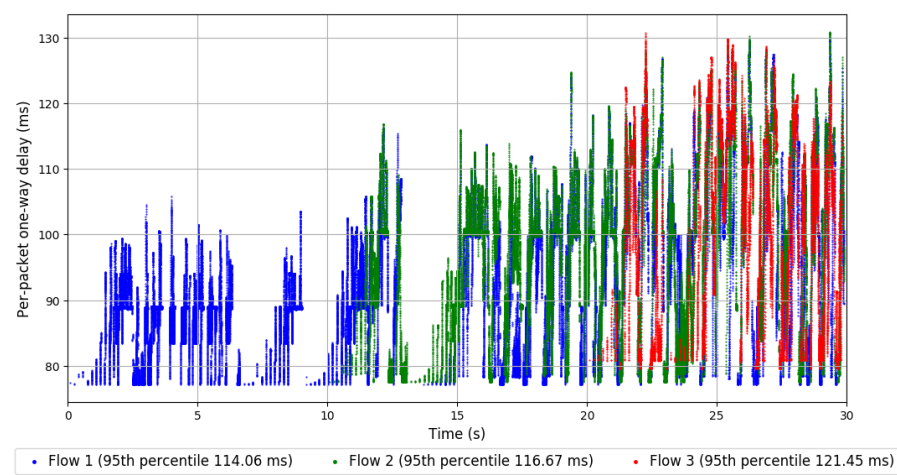
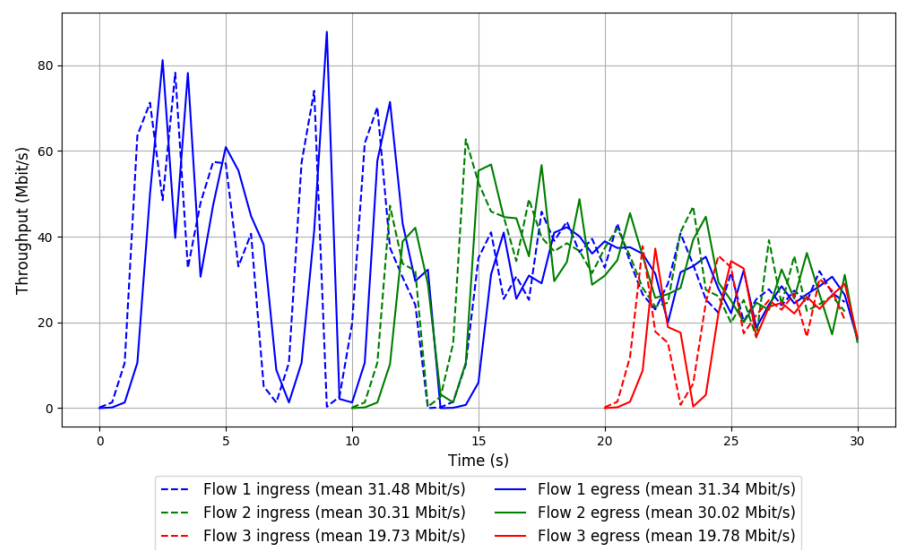


Run 4: Statistics of Verus

Start at: 2018-08-22 20:06:04
End at: 2018-08-22 20:06:34
Local clock offset: -9.282 ms
Remote clock offset: 6.427 ms

Below is generated by plot.py at 2018-08-22 22:50:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.74 Mbit/s
95th percentile per-packet one-way delay: 116.596 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 114.061 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 30.02 Mbit/s
95th percentile per-packet one-way delay: 116.671 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 121.450 ms
Loss rate: 2.07%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-22 20:27:08

End at: 2018-08-22 20:27:38

Local clock offset: -9.809 ms

Remote clock offset: 7.427 ms

Below is generated by plot.py at 2018-08-22 22:50:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 111.682 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 38.77 Mbit/s

95th percentile per-packet one-way delay: 109.177 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 25.22 Mbit/s

95th percentile per-packet one-way delay: 111.762 ms

Loss rate: 0.89%

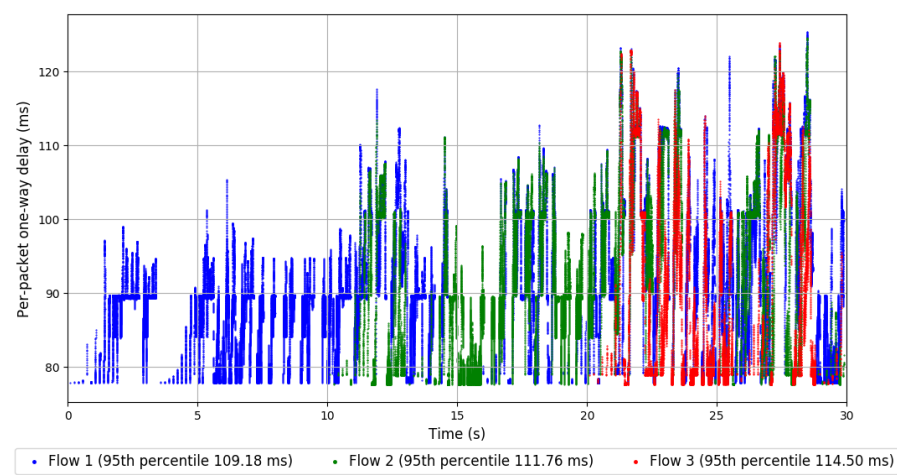
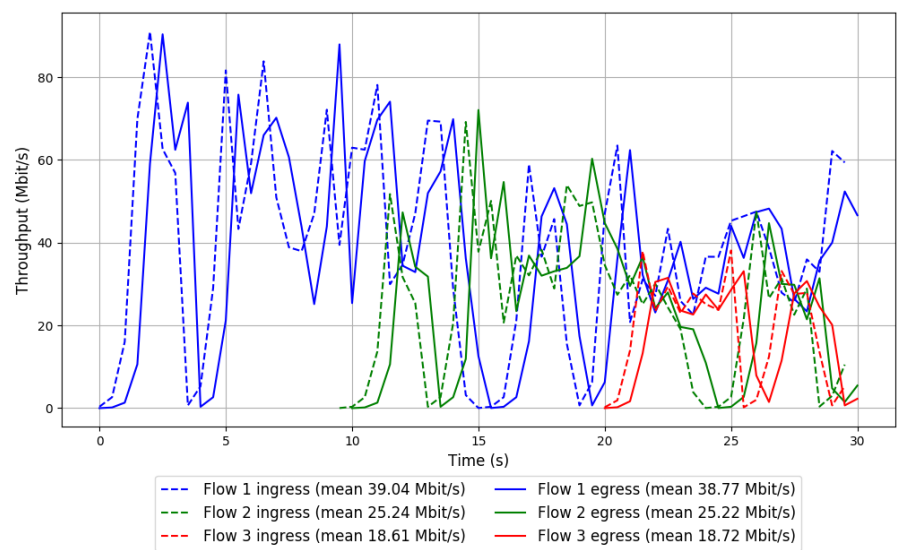
-- Flow 3:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 114.495 ms

Loss rate: 1.09%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-22 20:48:17

End at: 2018-08-22 20:48:47

Local clock offset: -9.115 ms

Remote clock offset: 2.713 ms

Below is generated by plot.py at 2018-08-22 22:50:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 109.411 ms

Loss rate: 10.15%

-- Flow 1:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 107.906 ms

Loss rate: 9.28%

-- Flow 2:

Average throughput: 28.23 Mbit/s

95th percentile per-packet one-way delay: 108.757 ms

Loss rate: 11.05%

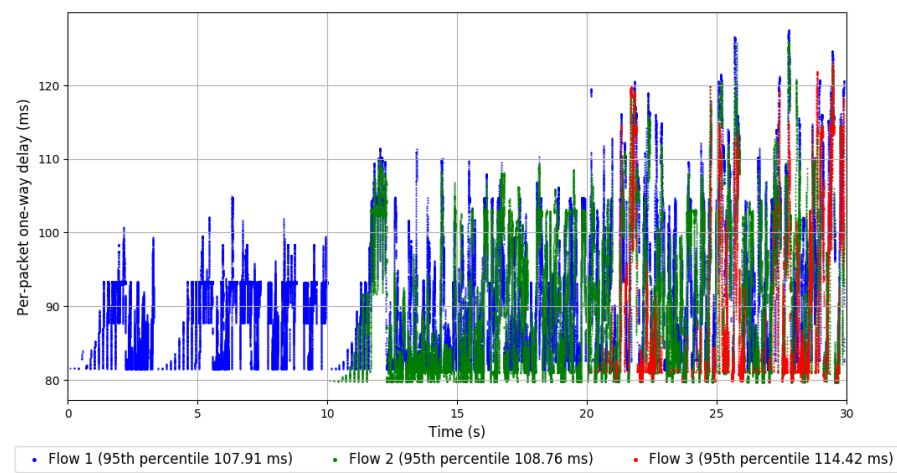
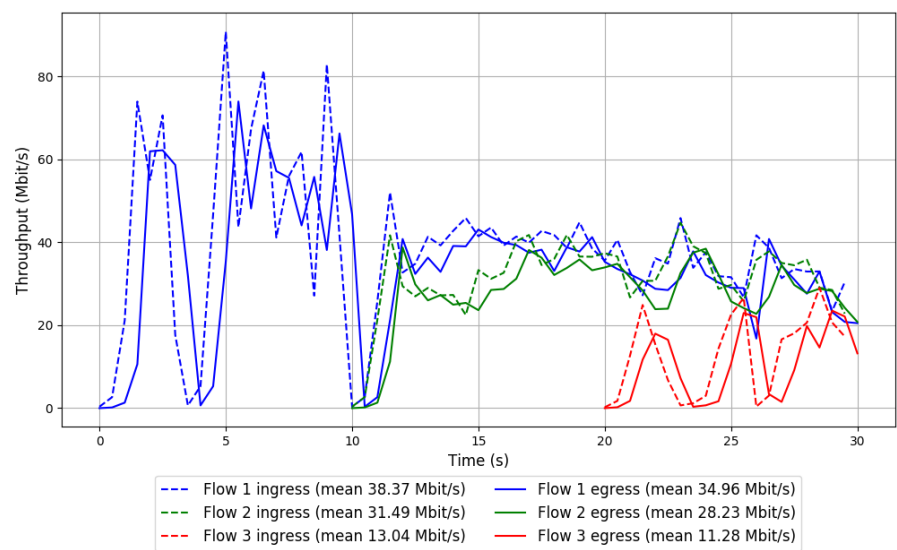
-- Flow 3:

Average throughput: 11.28 Mbit/s

95th percentile per-packet one-way delay: 114.424 ms

Loss rate: 13.60%

Run 6: Report of Verus — Data Link

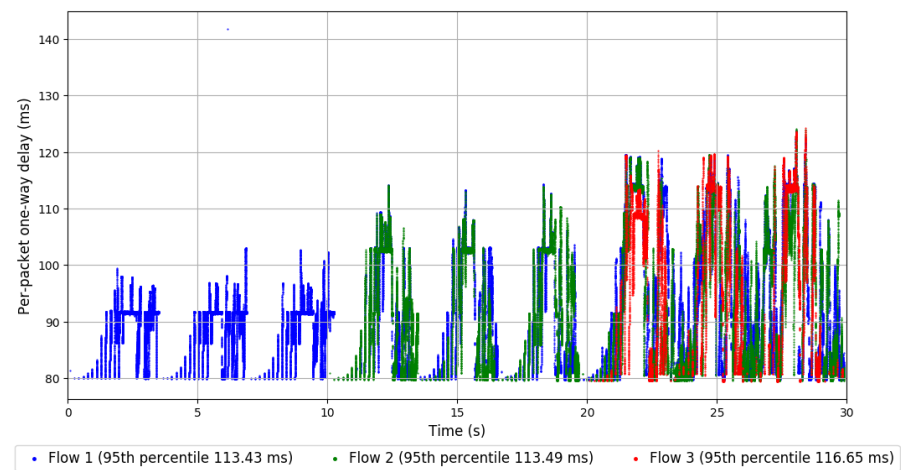
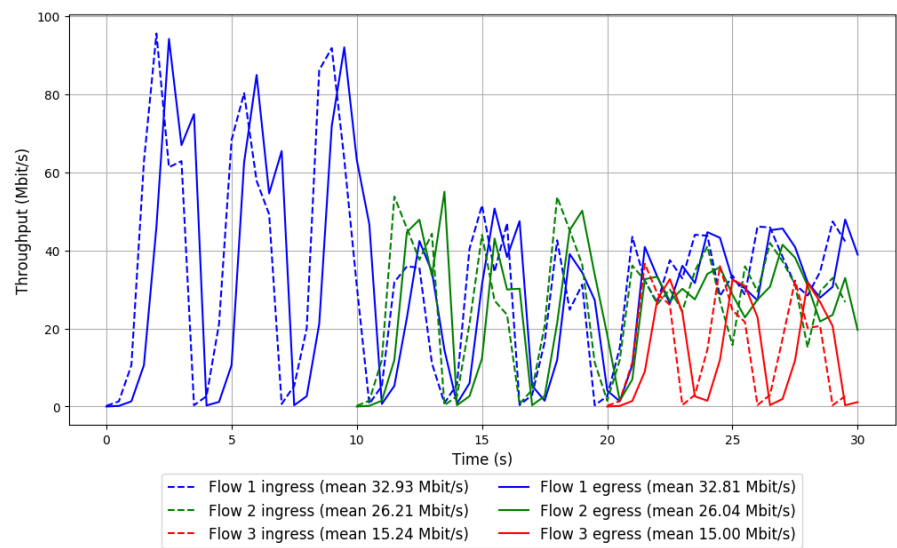


Run 7: Statistics of Verus

Start at: 2018-08-22 21:09:18
End at: 2018-08-22 21:09:48
Local clock offset: -8.886 ms
Remote clock offset: -1.181 ms

Below is generated by plot.py at 2018-08-22 22:51:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.00 Mbit/s
95th percentile per-packet one-way delay: 113.722 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 32.81 Mbit/s
95th percentile per-packet one-way delay: 113.431 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 26.04 Mbit/s
95th percentile per-packet one-way delay: 113.490 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 15.00 Mbit/s
95th percentile per-packet one-way delay: 116.653 ms
Loss rate: 3.19%

Run 7: Report of Verus — Data Link

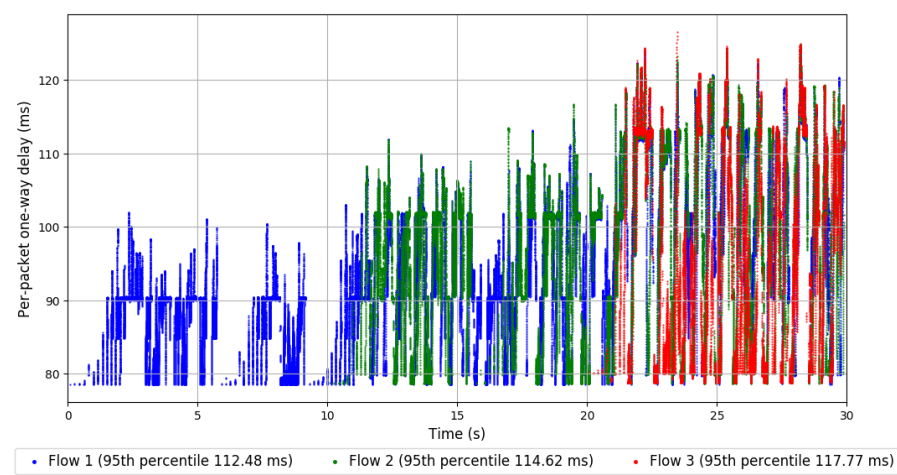
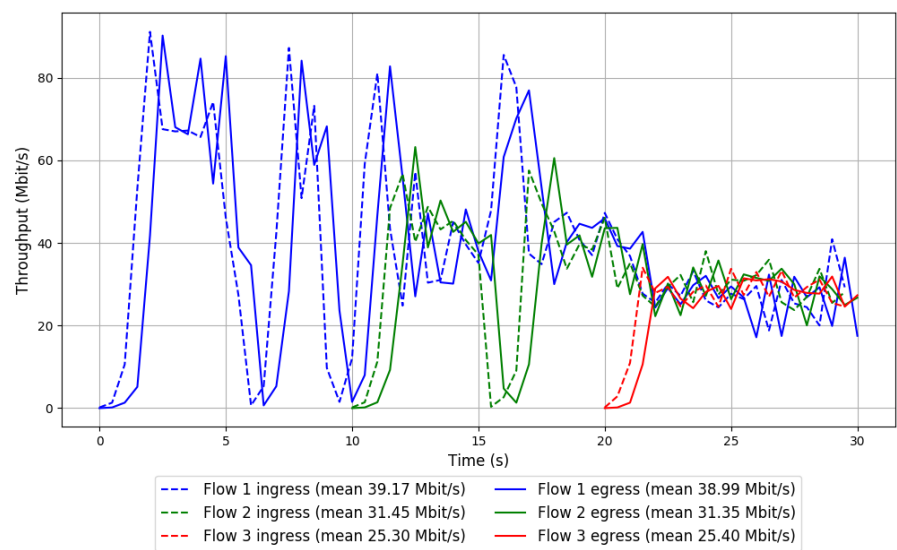


Run 8: Statistics of Verus

Start at: 2018-08-22 21:30:31
End at: 2018-08-22 21:31:01
Local clock offset: -3.611 ms
Remote clock offset: 4.876 ms

Below is generated by plot.py at 2018-08-22 22:51:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.16 Mbit/s
95th percentile per-packet one-way delay: 113.465 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 38.99 Mbit/s
95th percentile per-packet one-way delay: 112.484 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 114.621 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 25.40 Mbit/s
95th percentile per-packet one-way delay: 117.771 ms
Loss rate: 1.23%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-22 21:51:38

End at: 2018-08-22 21:52:08

Local clock offset: -3.368 ms

Remote clock offset: 6.572 ms

Below is generated by plot.py at 2018-08-22 22:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 110.807 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 46.12 Mbit/s

95th percentile per-packet one-way delay: 107.372 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 110.861 ms

Loss rate: 1.24%

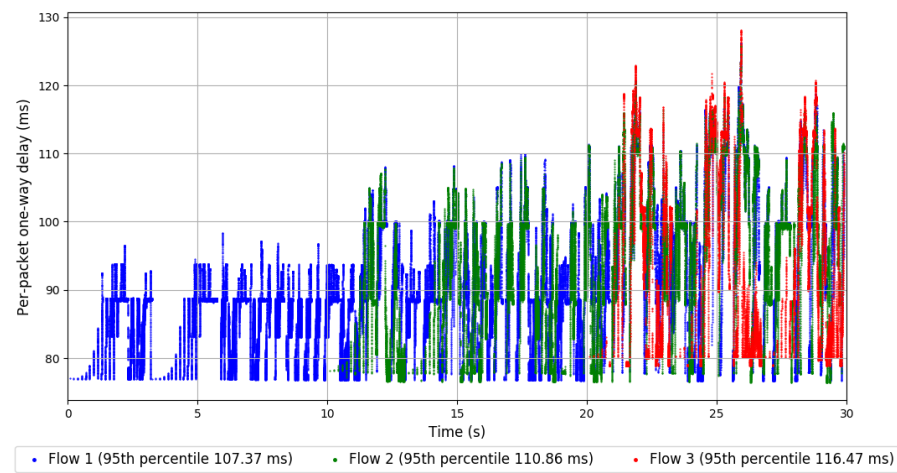
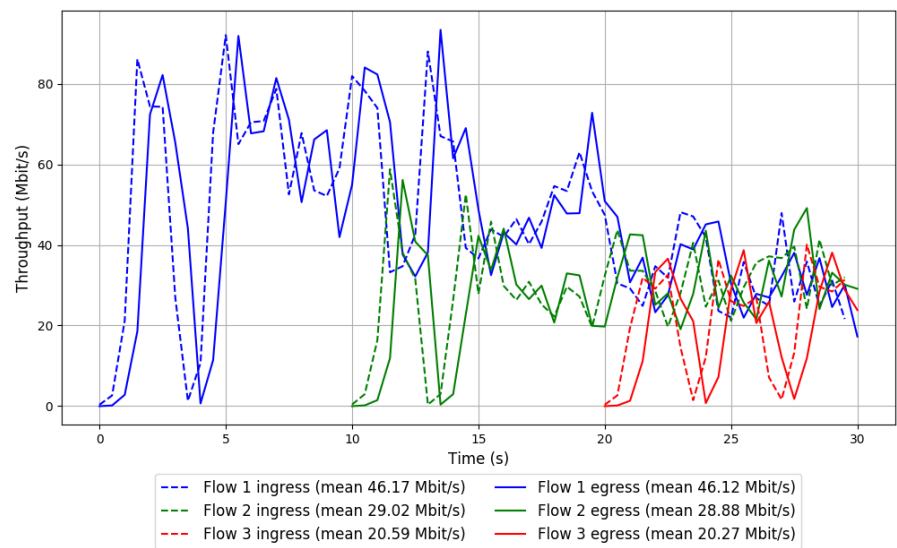
-- Flow 3:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 116.469 ms

Loss rate: 3.04%

Run 9: Report of Verus — Data Link

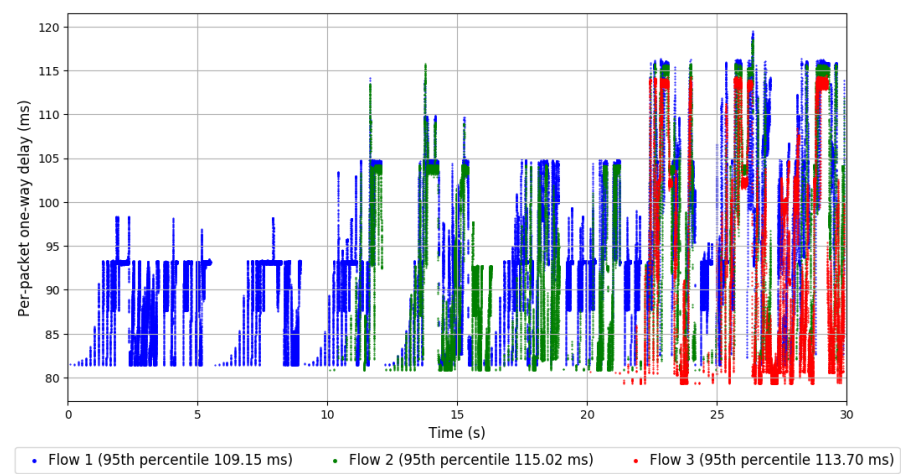
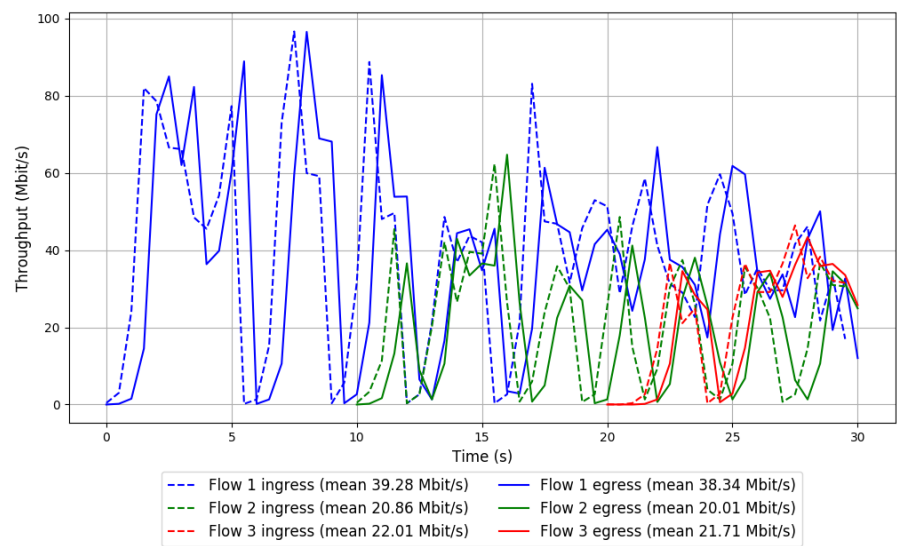


Run 10: Statistics of Verus

Start at: 2018-08-22 22:12:36
End at: 2018-08-22 22:13:06
Local clock offset: -4.743 ms
Remote clock offset: -1.314 ms

Below is generated by plot.py at 2018-08-22 22:51:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.77 Mbit/s
95th percentile per-packet one-way delay: 113.566 ms
Loss rate: 3.34%
-- Flow 1:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 109.152 ms
Loss rate: 2.89%
-- Flow 2:
Average throughput: 20.01 Mbit/s
95th percentile per-packet one-way delay: 115.018 ms
Loss rate: 4.84%
-- Flow 3:
Average throughput: 21.71 Mbit/s
95th percentile per-packet one-way delay: 113.703 ms
Loss rate: 2.86%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-22 19:12:17

End at: 2018-08-22 19:12:47

Local clock offset: -3.331 ms

Remote clock offset: 9.107 ms

Below is generated by plot.py at 2018-08-22 22:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.81 Mbit/s

95th percentile per-packet one-way delay: 110.746 ms

Loss rate: 3.50%

-- Flow 1:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 105.861 ms

Loss rate: 4.53%

-- Flow 2:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 111.588 ms

Loss rate: 1.84%

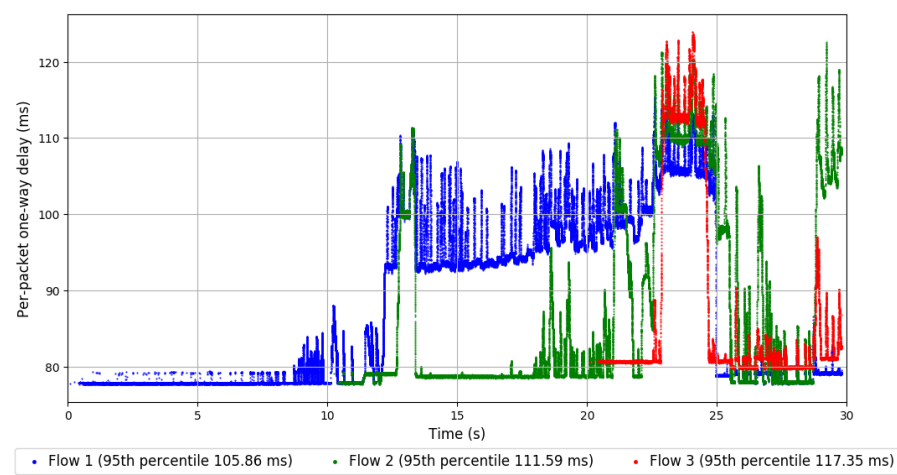
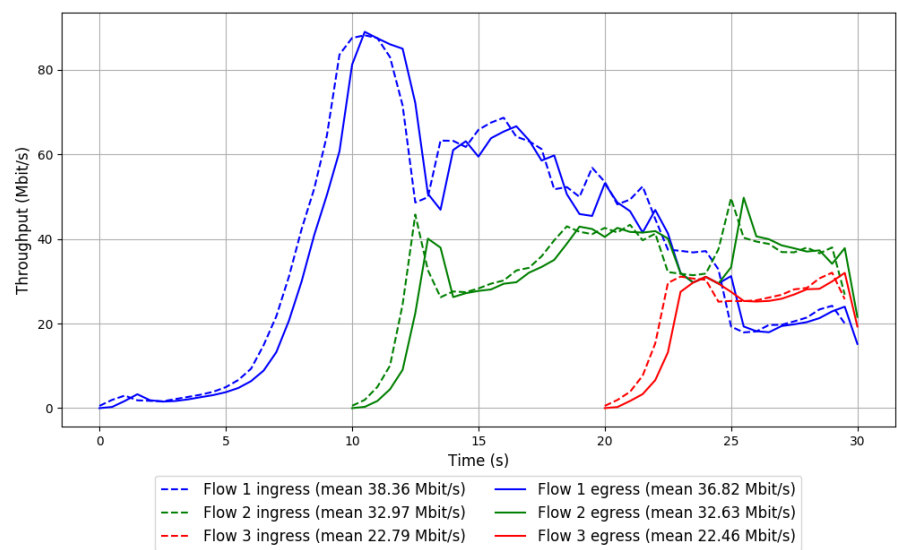
-- Flow 3:

Average throughput: 22.46 Mbit/s

95th percentile per-packet one-way delay: 117.348 ms

Loss rate: 3.05%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-22 19:33:22

End at: 2018-08-22 19:33:52

Local clock offset: -3.56 ms

Remote clock offset: 8.522 ms

Below is generated by plot.py at 2018-08-22 22:51:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 96.099 ms

Loss rate: 12.12%

-- Flow 1:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 96.293 ms

Loss rate: 12.05%

-- Flow 2:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 83.143 ms

Loss rate: 14.74%

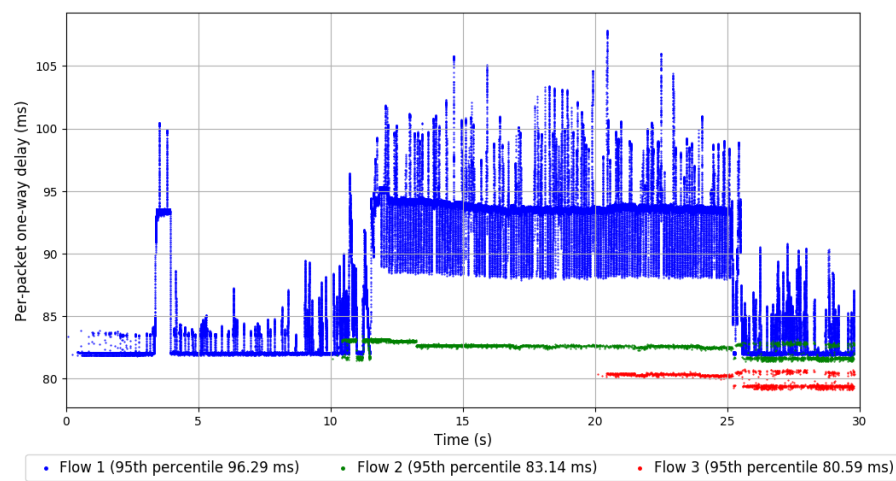
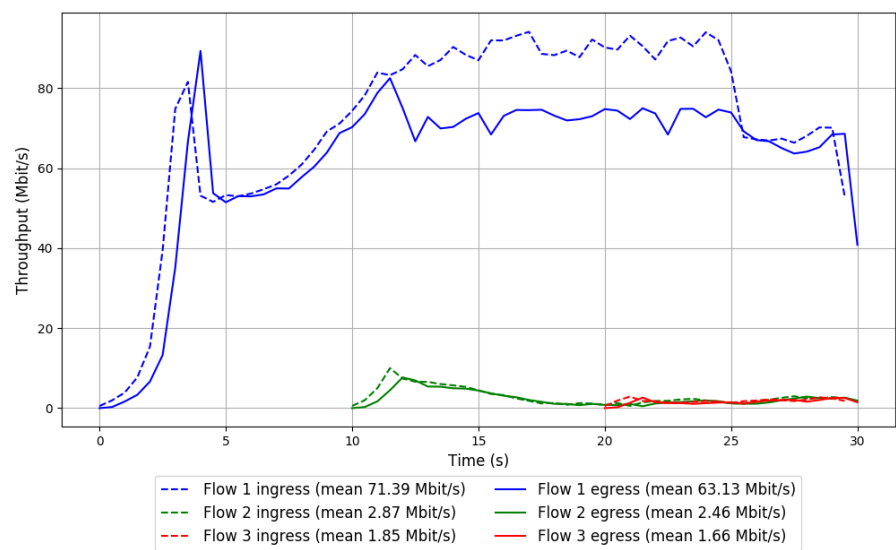
-- Flow 3:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 80.590 ms

Loss rate: 11.60%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-22 19:54:41

End at: 2018-08-22 19:55:11

Local clock offset: -7.686 ms

Remote clock offset: 5.581 ms

Below is generated by plot.py at 2018-08-22 22:51:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.82 Mbit/s

95th percentile per-packet one-way delay: 109.130 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 100.932 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 113.398 ms

Loss rate: 3.87%

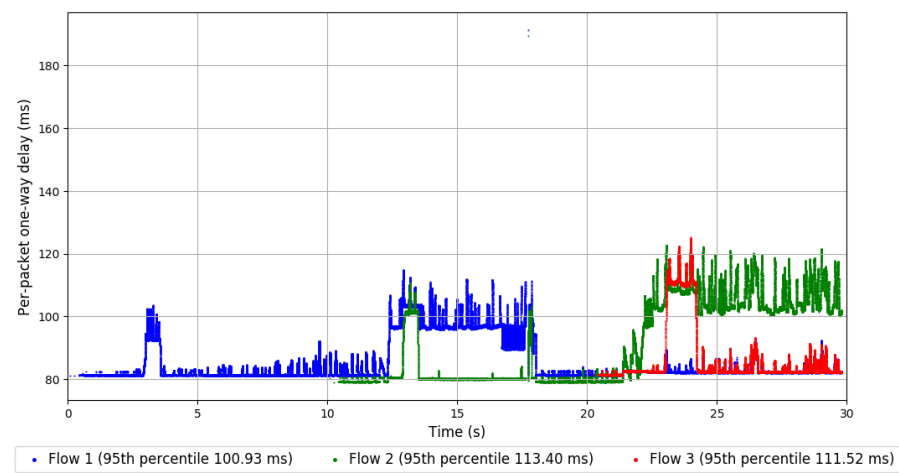
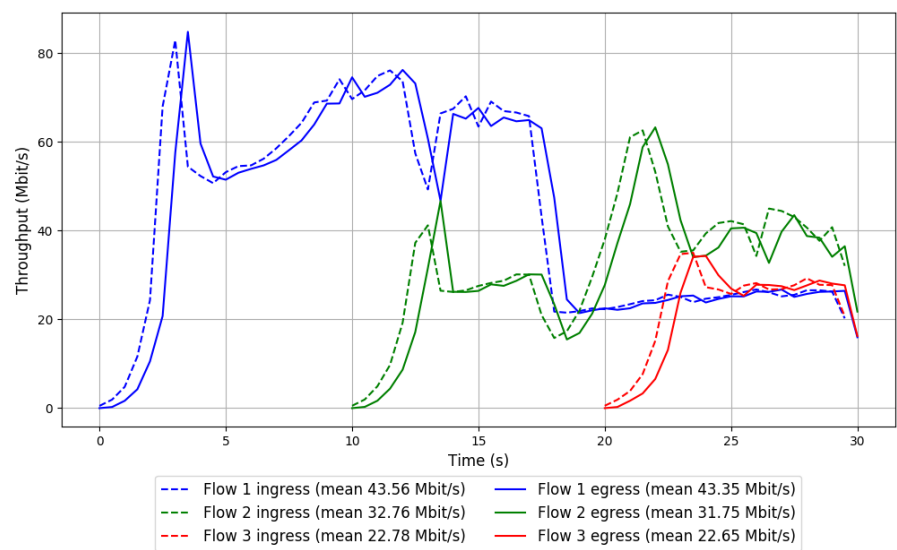
-- Flow 3:

Average throughput: 22.65 Mbit/s

95th percentile per-packet one-way delay: 111.519 ms

Loss rate: 2.25%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-22 20:15:45

End at: 2018-08-22 20:16:15

Local clock offset: -9.108 ms

Remote clock offset: 2.269 ms

Below is generated by plot.py at 2018-08-22 22:51:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 113.733 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 112.354 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 114.765 ms

Loss rate: 1.86%

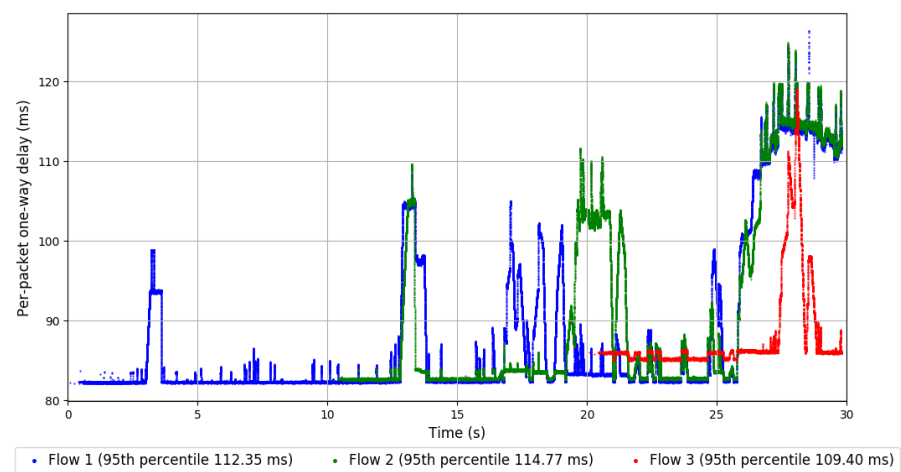
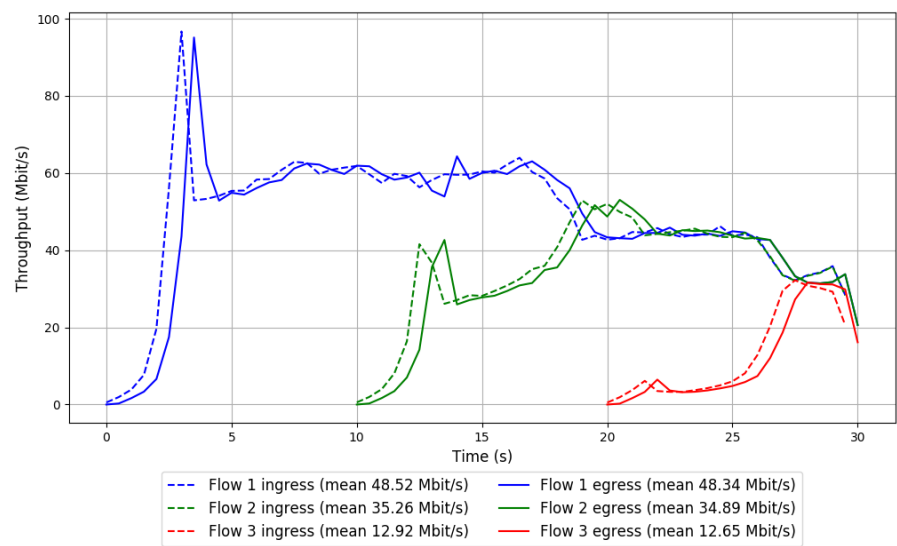
-- Flow 3:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 109.400 ms

Loss rate: 3.76%

Run 4: Report of PCC-Vivace — Data Link

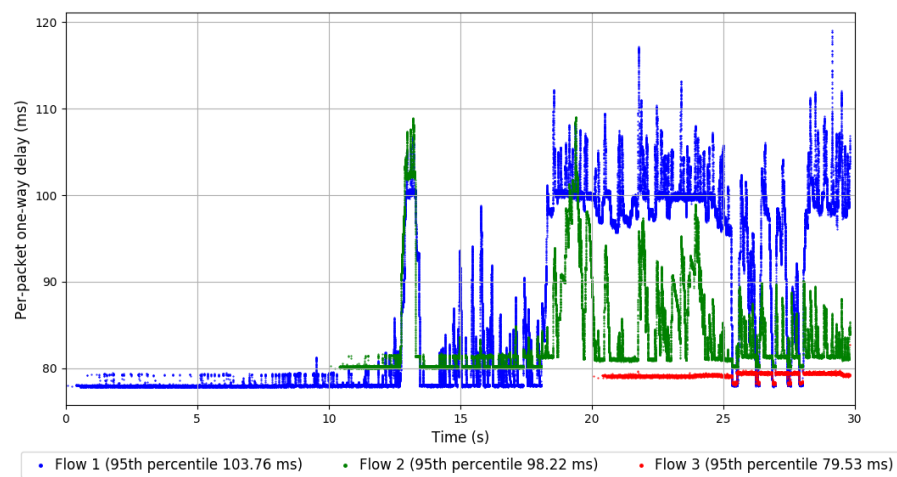
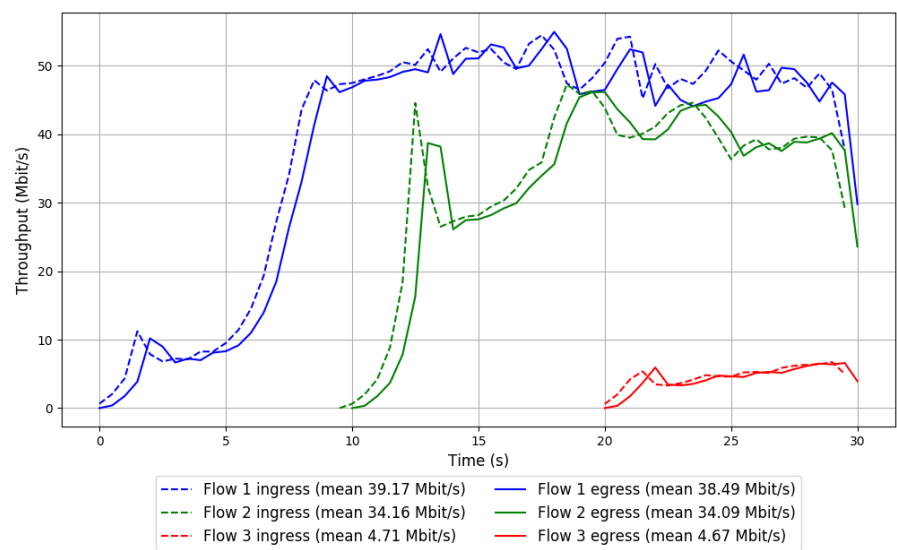


Run 5: Statistics of PCC-Vivace

Start at: 2018-08-22 20:36:49
End at: 2018-08-22 20:37:19
Local clock offset: -11.181 ms
Remote clock offset: 6.473 ms

Below is generated by plot.py at 2018-08-22 22:51:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.63 Mbit/s
95th percentile per-packet one-way delay: 102.403 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 103.759 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 34.09 Mbit/s
95th percentile per-packet one-way delay: 98.217 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 79.529 ms
Loss rate: 2.28%

Run 5: Report of PCC-Vivace — Data Link

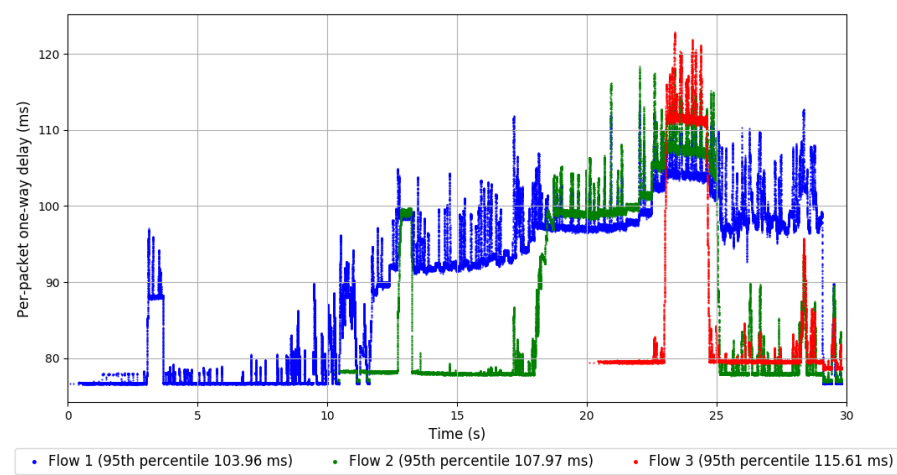
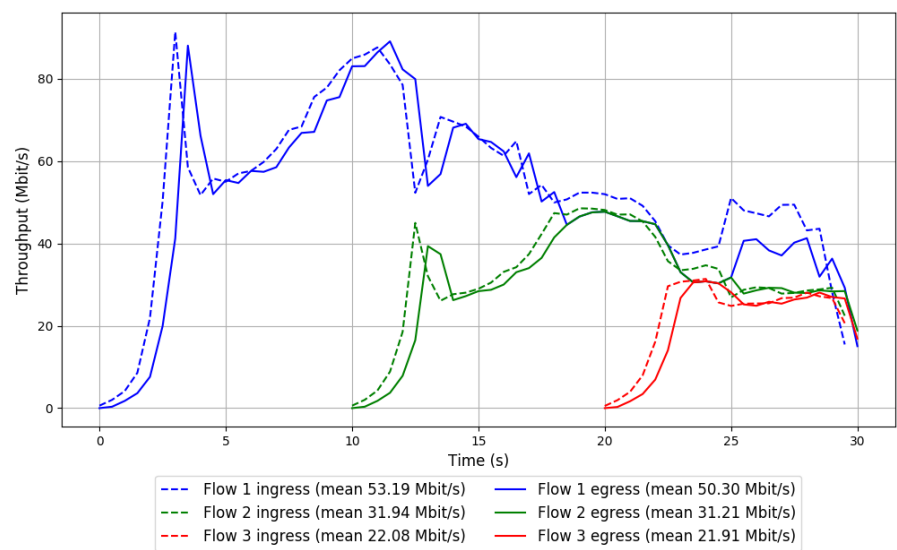


Run 6: Statistics of PCC-Vivace

Start at: 2018-08-22 20:57:56
End at: 2018-08-22 20:58:26
Local clock offset: -10.804 ms
Remote clock offset: 0.881 ms

Below is generated by plot.py at 2018-08-22 22:52:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.17 Mbit/s
95th percentile per-packet one-way delay: 107.331 ms
Loss rate: 4.84%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 103.956 ms
Loss rate: 5.91%
-- Flow 2:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 107.965 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 115.612 ms
Loss rate: 2.32%

Run 6: Report of PCC-Vivace — Data Link

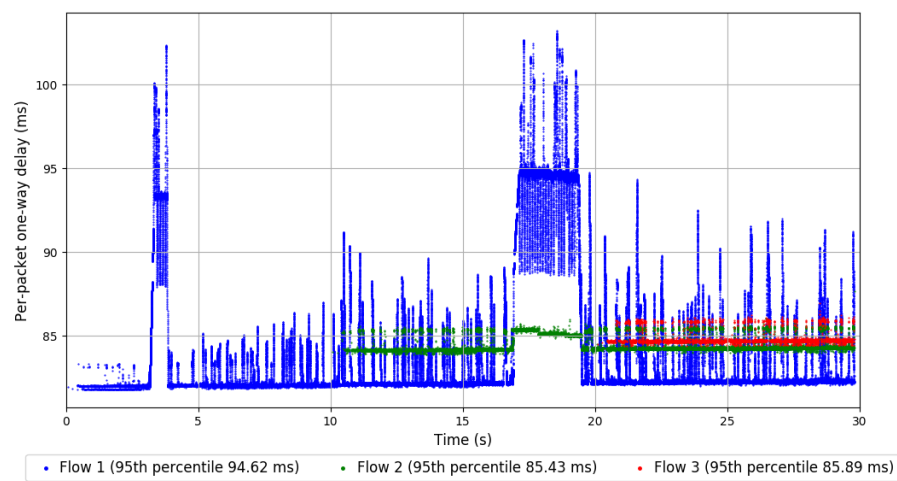
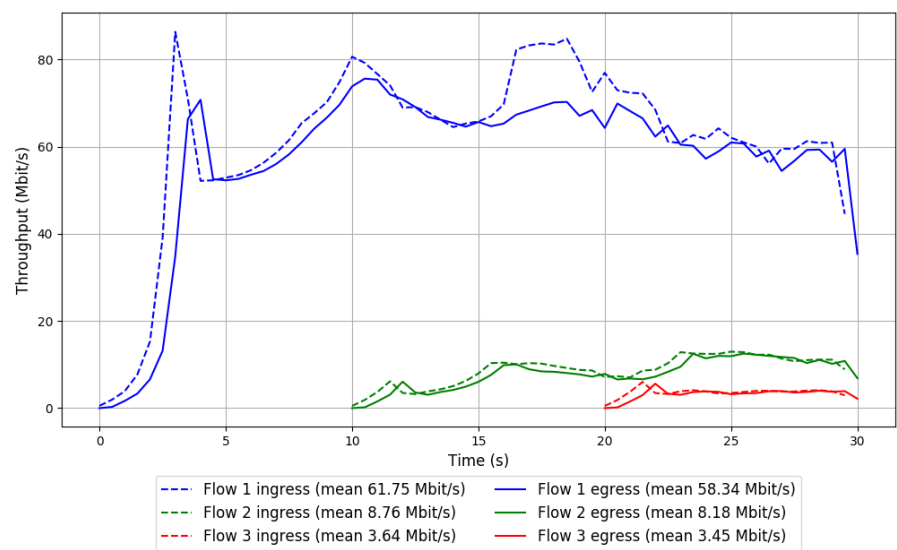


Run 7: Statistics of PCC-Vivace

Start at: 2018-08-22 21:18:59
End at: 2018-08-22 21:19:29
Local clock offset: -6.653 ms
Remote clock offset: -4.736 ms

Below is generated by plot.py at 2018-08-22 22:52:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.89 Mbit/s
95th percentile per-packet one-way delay: 94.579 ms
Loss rate: 6.16%
-- Flow 1:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 94.624 ms
Loss rate: 6.04%
-- Flow 2:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 85.434 ms
Loss rate: 7.36%
-- Flow 3:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 85.892 ms
Loss rate: 6.68%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-22 21:40:13

End at: 2018-08-22 21:40:43

Local clock offset: -4.581 ms

Remote clock offset: 2.138 ms

Below is generated by plot.py at 2018-08-22 22:52:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 115.490 ms

Loss rate: 3.16%

-- Flow 1:

Average throughput: 49.67 Mbit/s

95th percentile per-packet one-way delay: 111.135 ms

Loss rate: 3.86%

-- Flow 2:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 116.193 ms

Loss rate: 1.43%

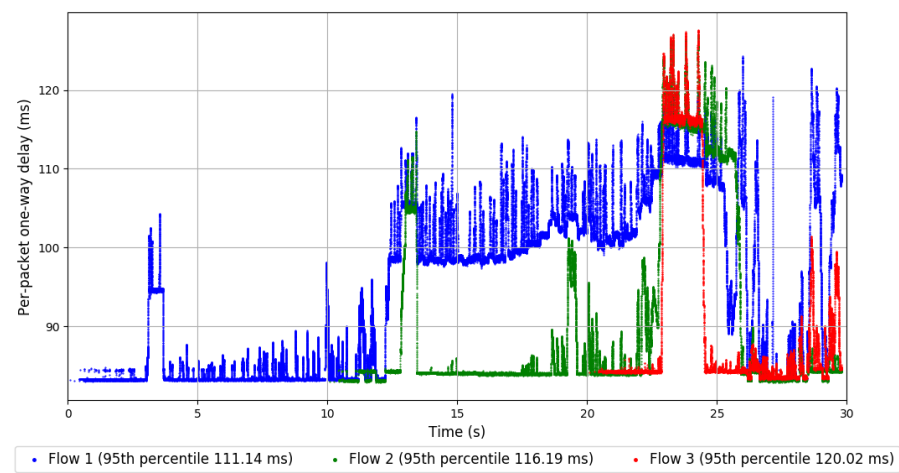
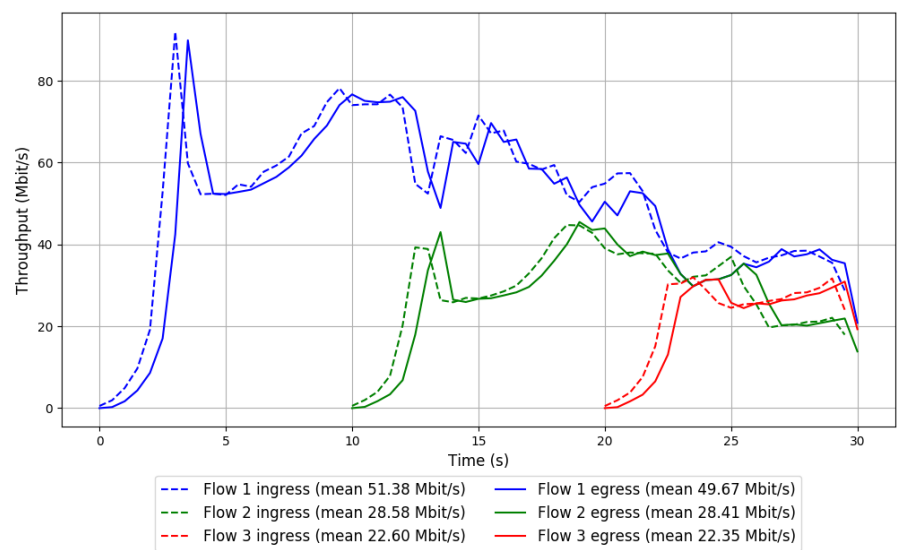
-- Flow 3:

Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 120.020 ms

Loss rate: 2.74%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-22 22:01:16

End at: 2018-08-22 22:01:46

Local clock offset: -2.235 ms

Remote clock offset: 1.642 ms

Below is generated by plot.py at 2018-08-22 22:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 109.428 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 106.162 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 28.67 Mbit/s

95th percentile per-packet one-way delay: 111.177 ms

Loss rate: 1.12%

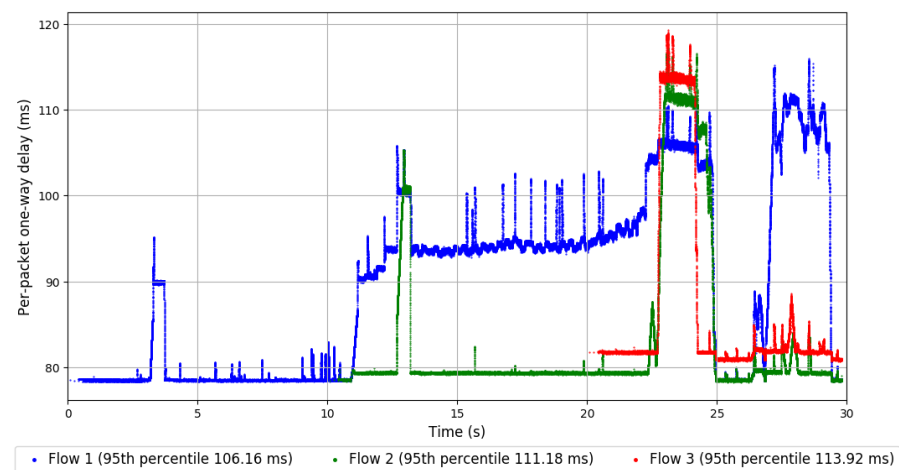
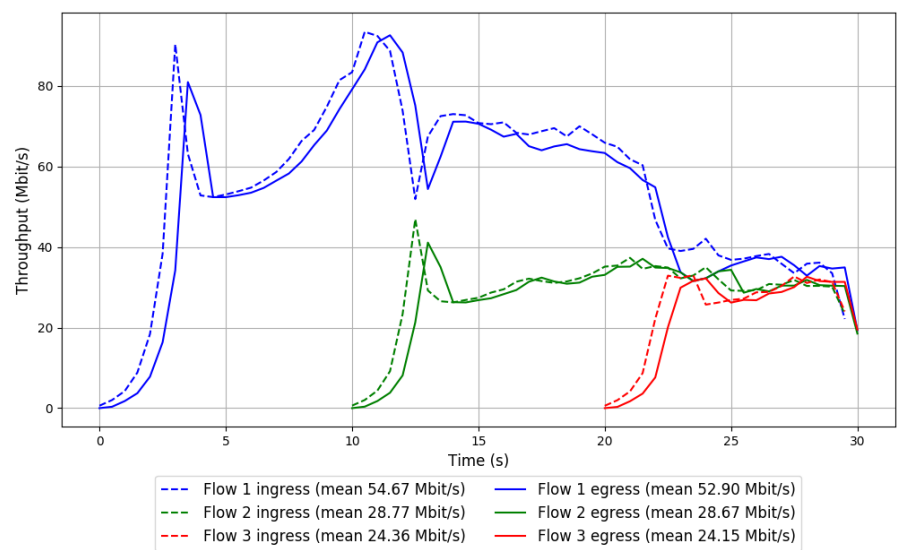
-- Flow 3:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 113.916 ms

Loss rate: 2.40%

Run 9: Report of PCC-Vivace — Data Link

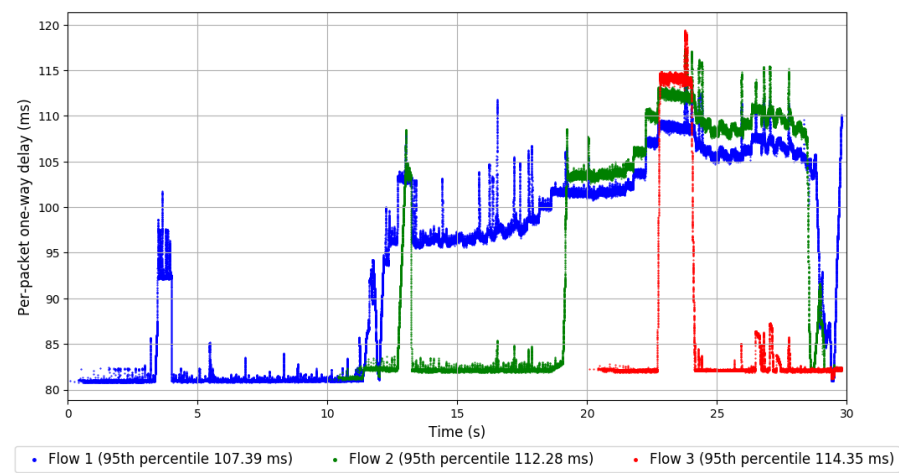
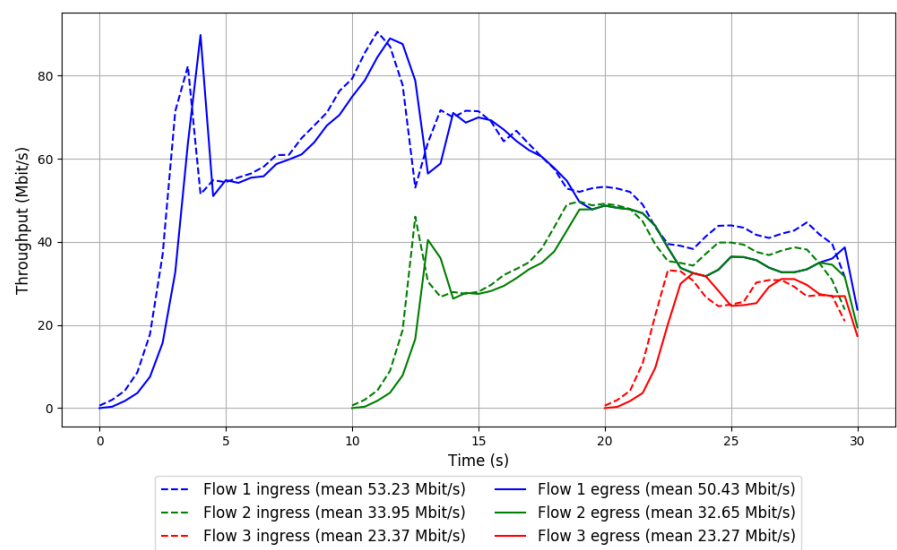


Run 10: Statistics of PCC-Vivace

Start at: 2018-08-22 22:22:14
End at: 2018-08-22 22:22:44
Local clock offset: -6.165 ms
Remote clock offset: -2.365 ms

Below is generated by plot.py at 2018-08-22 22:52:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.69 Mbit/s
95th percentile per-packet one-way delay: 110.467 ms
Loss rate: 5.09%
-- Flow 1:
Average throughput: 50.43 Mbit/s
95th percentile per-packet one-way delay: 107.389 ms
Loss rate: 5.75%
-- Flow 2:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 112.277 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 114.351 ms
Loss rate: 2.02%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-22 19:08:41

End at: 2018-08-22 19:09:11

Local clock offset: -3.392 ms

Remote clock offset: 8.543 ms

Below is generated by plot.py at 2018-08-22 22:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 80.393 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 78.410 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 80.776 ms

Loss rate: 0.70%

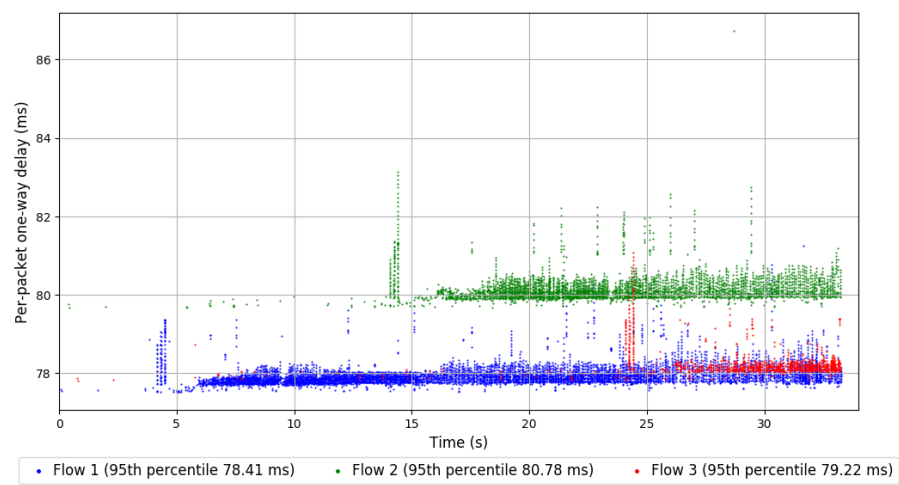
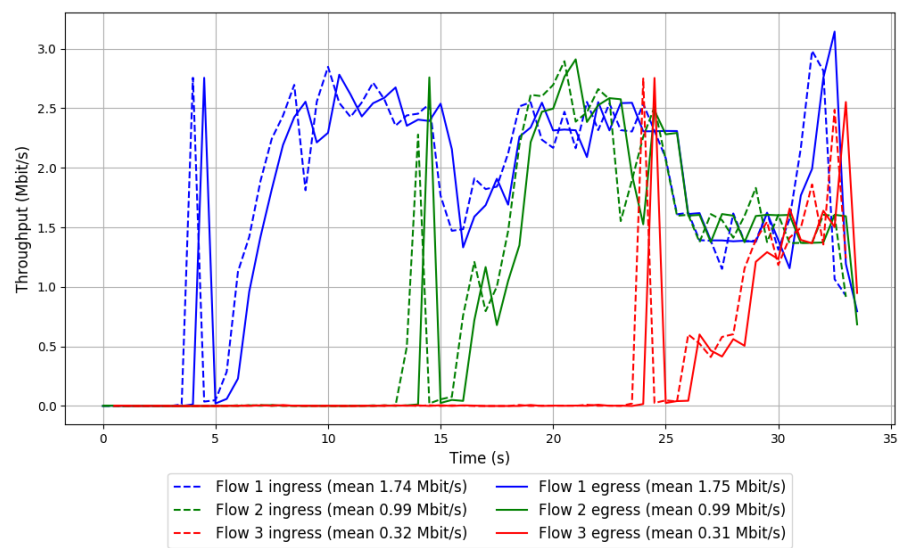
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 79.225 ms

Loss rate: 2.43%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-22 19:29:46

End at: 2018-08-22 19:30:16

Local clock offset: -5.051 ms

Remote clock offset: 5.562 ms

Below is generated by plot.py at 2018-08-22 22:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 83.813 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 84.367 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 82.458 ms

Loss rate: 0.70%

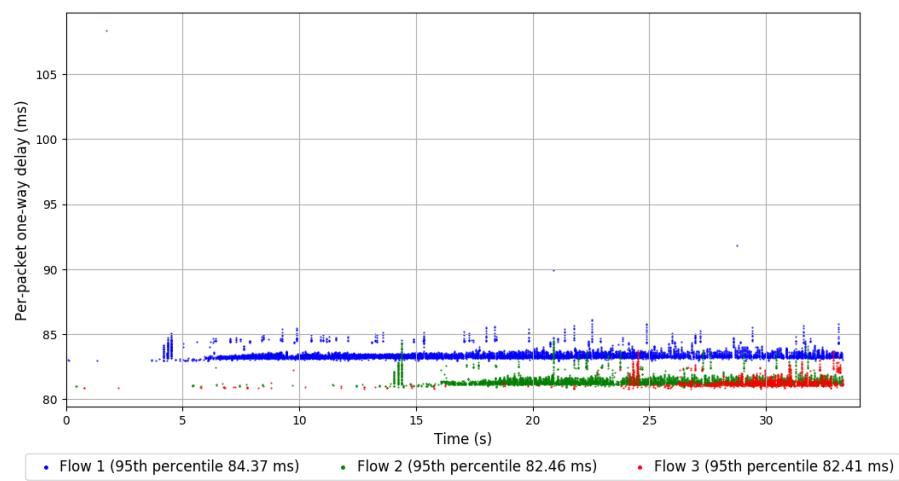
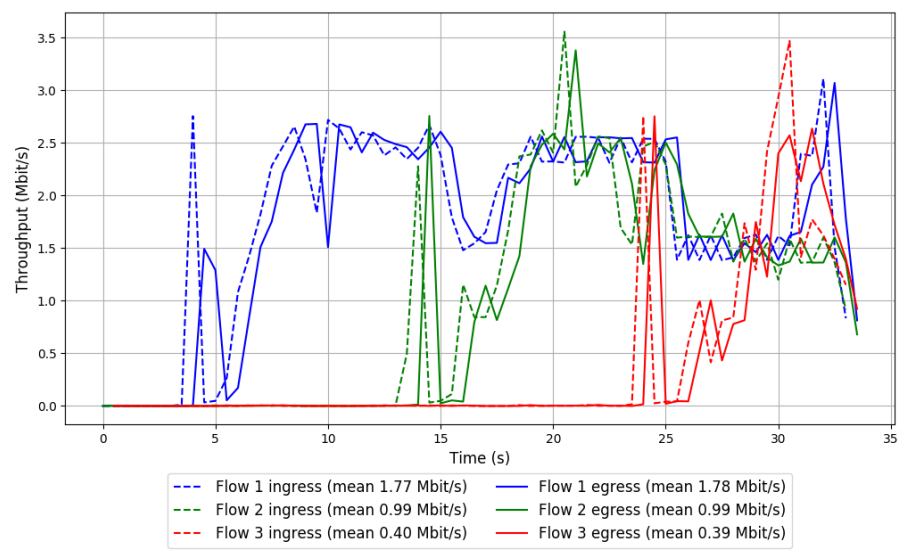
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 82.407 ms

Loss rate: 1.78%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-22 19:51:05

End at: 2018-08-22 19:51:35

Local clock offset: -6.487 ms

Remote clock offset: 7.971 ms

Below is generated by plot.py at 2018-08-22 22:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 80.824 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 81.307 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 78.917 ms

Loss rate: 0.71%

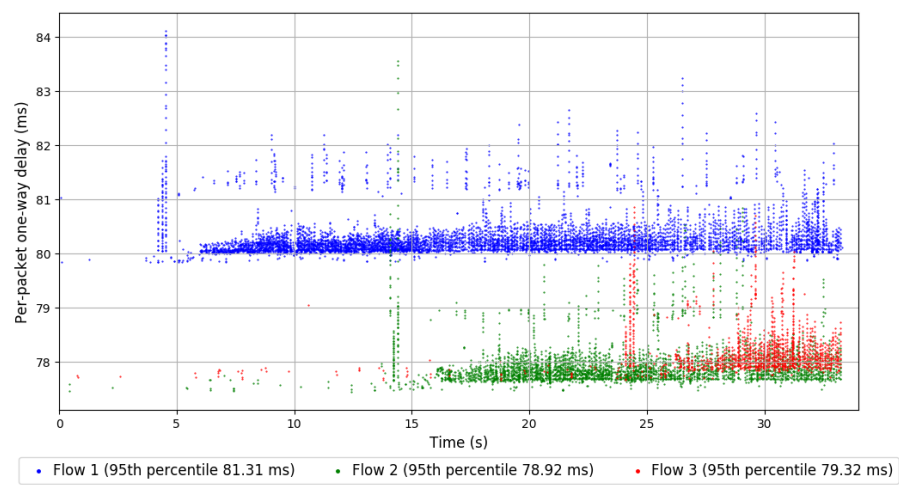
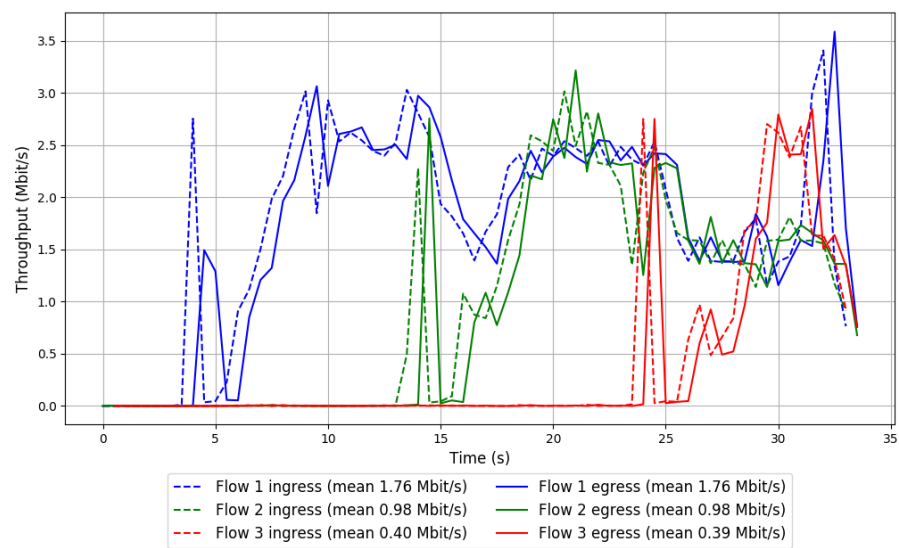
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 79.319 ms

Loss rate: 1.78%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-22 20:12:09

End at: 2018-08-22 20:12:39

Local clock offset: -9.719 ms

Remote clock offset: 1.937 ms

Below is generated by plot.py at 2018-08-22 22:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 84.506 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 84.630 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 83.012 ms

Loss rate: 0.70%

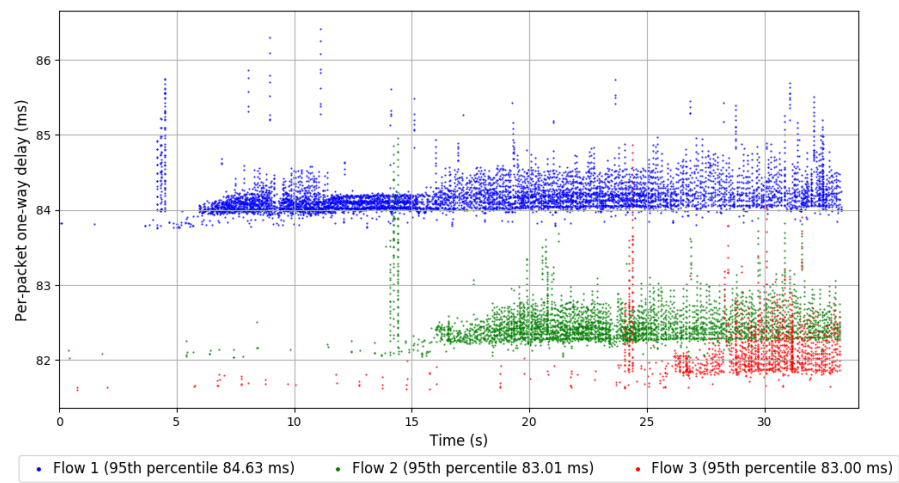
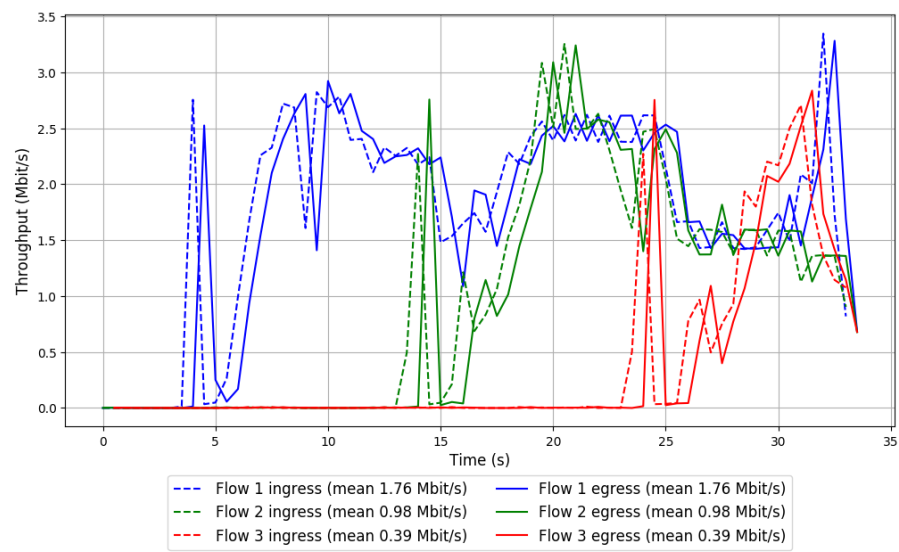
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 82.997 ms

Loss rate: 2.43%

Run 4: Report of WebRTC media — Data Link

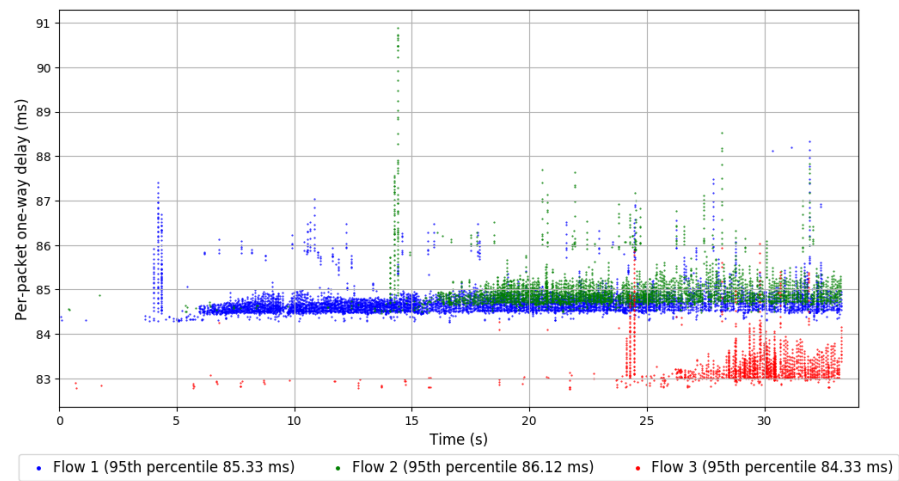
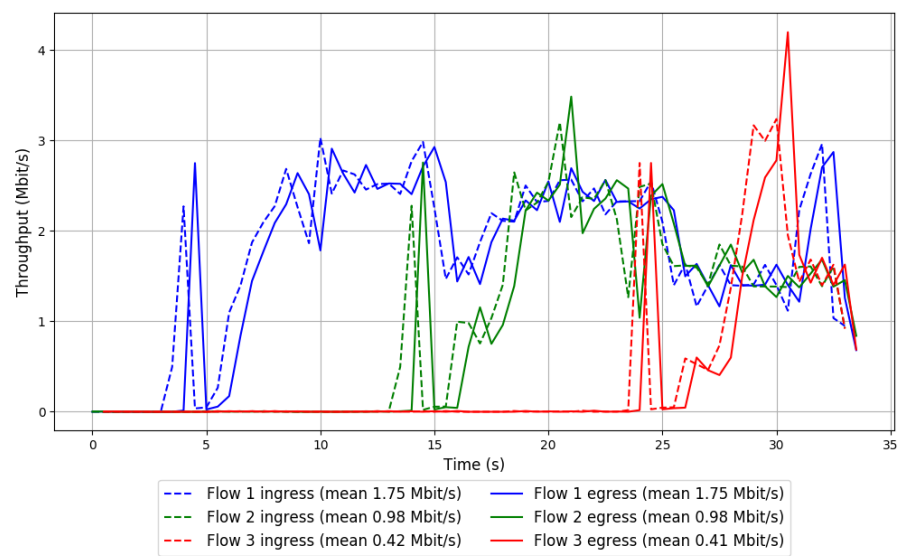


Run 5: Statistics of WebRTC media

Start at: 2018-08-22 20:33:13
End at: 2018-08-22 20:33:43
Local clock offset: -10.168 ms
Remote clock offset: 2.606 ms

Below is generated by plot.py at 2018-08-22 22:52:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 85.517 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 85.331 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 86.124 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 84.325 ms
Loss rate: 1.68%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-22 20:54:21

End at: 2018-08-22 20:54:51

Local clock offset: -10.7 ms

Remote clock offset: 1.758 ms

Below is generated by plot.py at 2018-08-22 22:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 79.082 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 78.097 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 78.193 ms

Loss rate: 0.72%

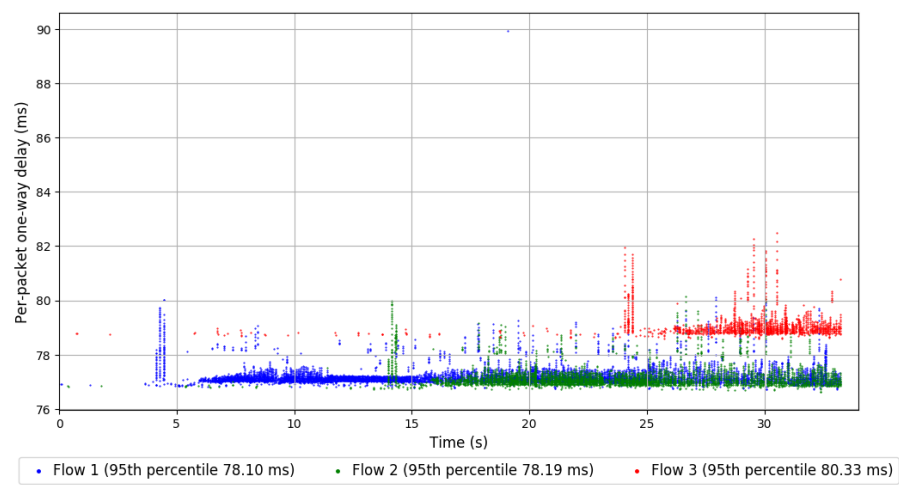
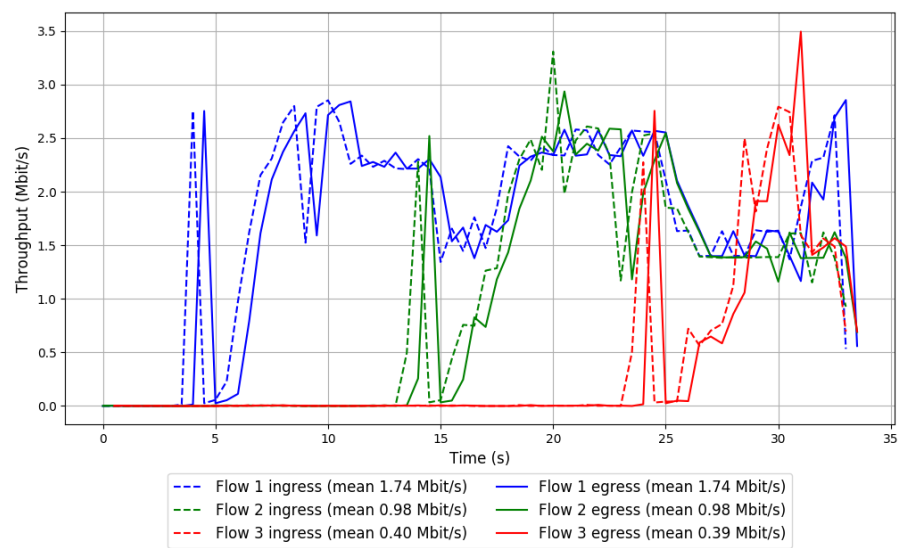
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 80.329 ms

Loss rate: 0.90%

Run 6: Report of WebRTC media — Data Link

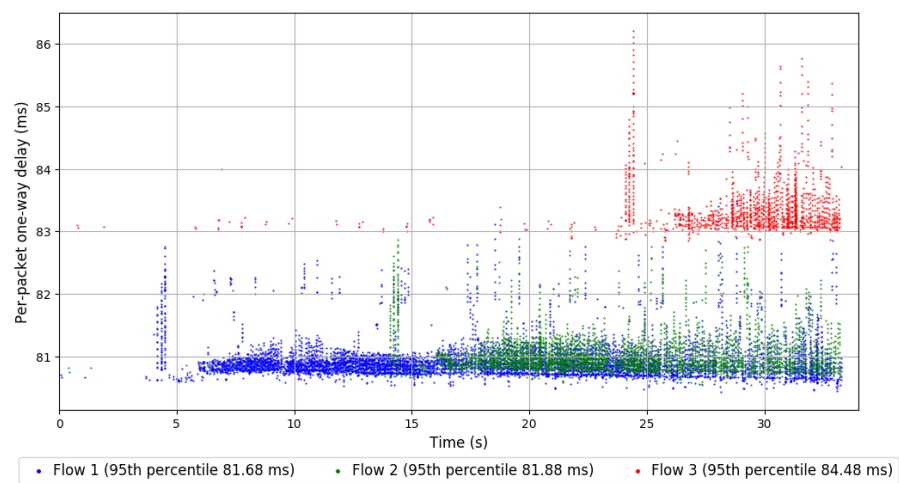
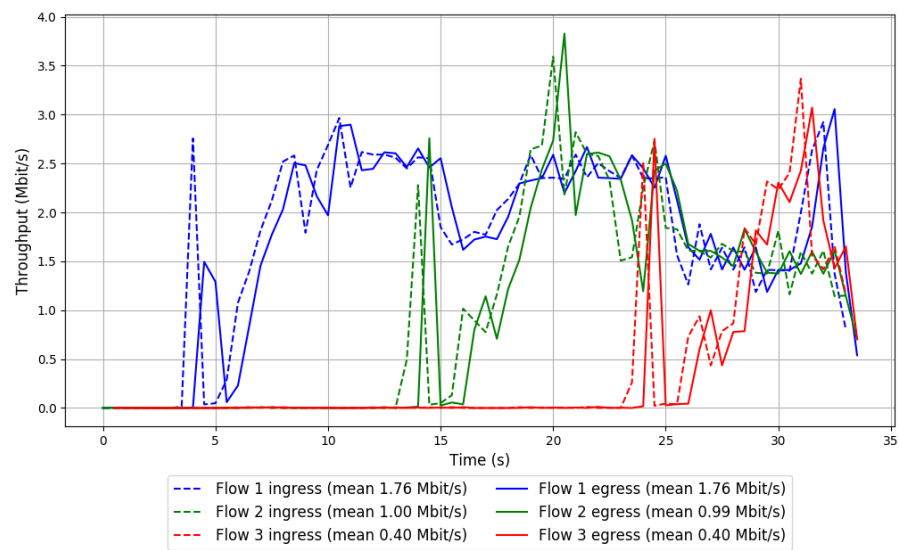


Run 7: Statistics of WebRTC media

Start at: 2018-08-22 21:15:23
End at: 2018-08-22 21:15:53
Local clock offset: -7.377 ms
Remote clock offset: -5.915 ms

Below is generated by plot.py at 2018-08-22 22:52:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 83.339 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 81.677 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 81.882 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 84.483 ms
Loss rate: 2.64%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-22 21:36:37

End at: 2018-08-22 21:37:07

Local clock offset: -4.008 ms

Remote clock offset: 5.725 ms

Below is generated by plot.py at 2018-08-22 22:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 81.337 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 81.325 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 81.338 ms

Loss rate: 0.68%

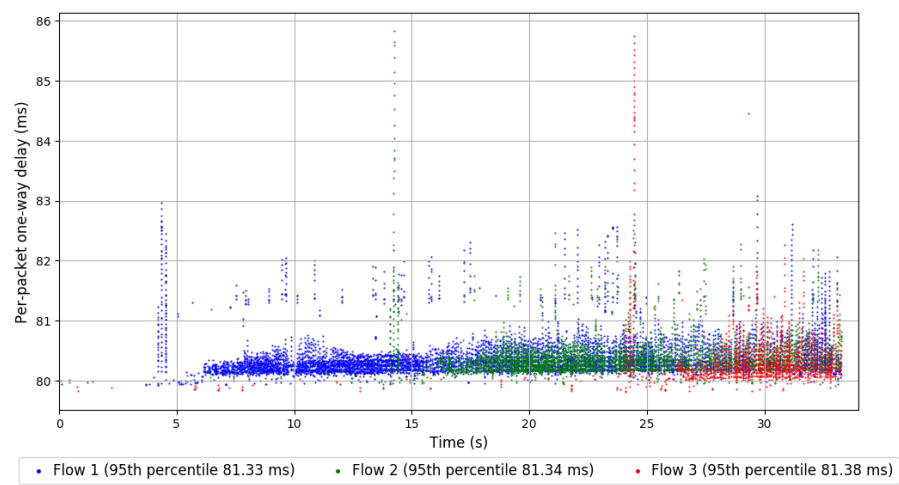
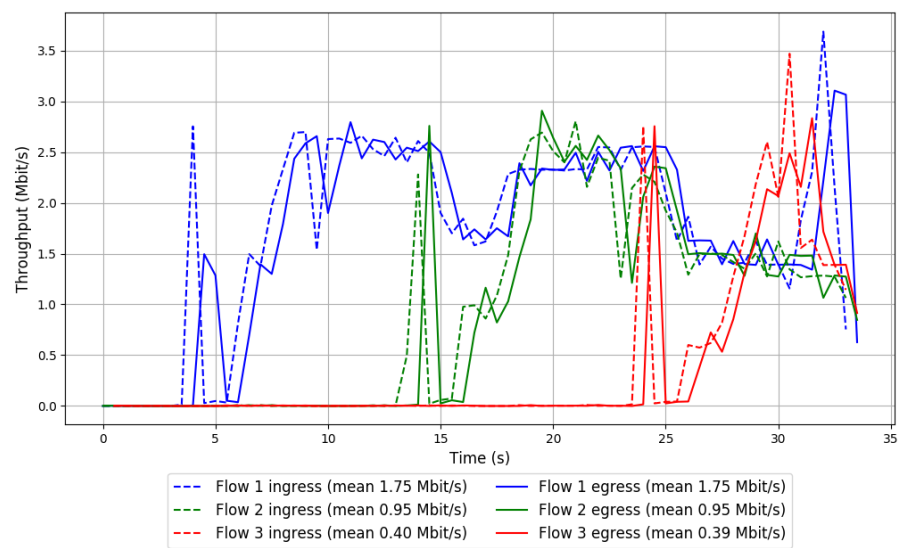
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 81.383 ms

Loss rate: 1.77%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-22 21:57:41

End at: 2018-08-22 21:58:11

Local clock offset: -3.143 ms

Remote clock offset: 3.722 ms

Below is generated by plot.py at 2018-08-22 22:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 79.590 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 79.588 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 77.664 ms

Loss rate: 0.68%

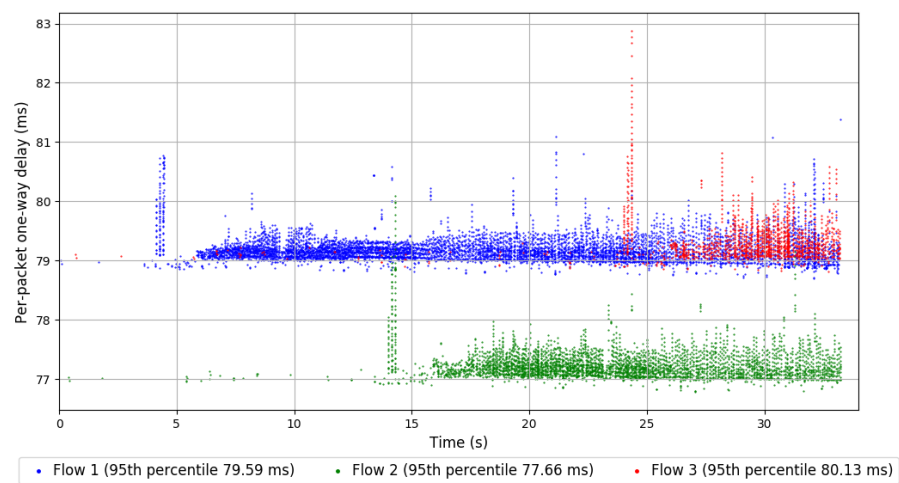
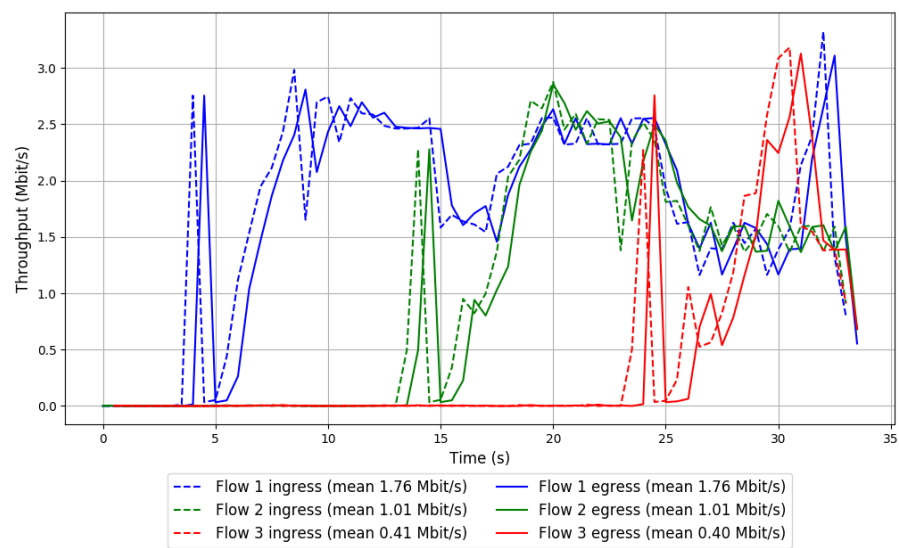
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 80.131 ms

Loss rate: 1.71%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-22 22:18:39
End at: 2018-08-22 22:19:09
Local clock offset: -6.634 ms
Remote clock offset: -2.098 ms

Below is generated by plot.py at 2018-08-22 22:52:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 81.388 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 79.473 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 81.865 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 81.996 ms
Loss rate: 1.72%

Run 10: Report of WebRTC media — Data Link

