

## Pantheon Report

Generated at 2018-07-04 14:46:14 (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.

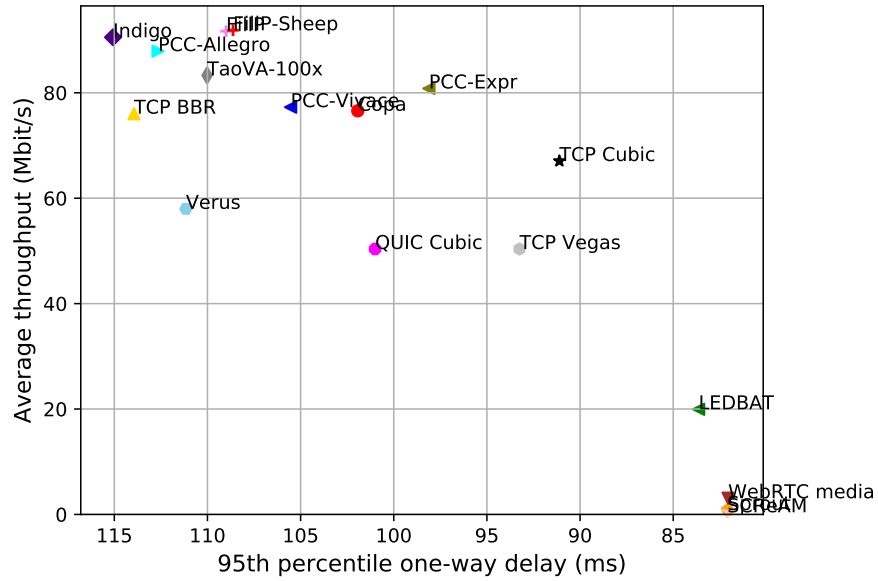
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

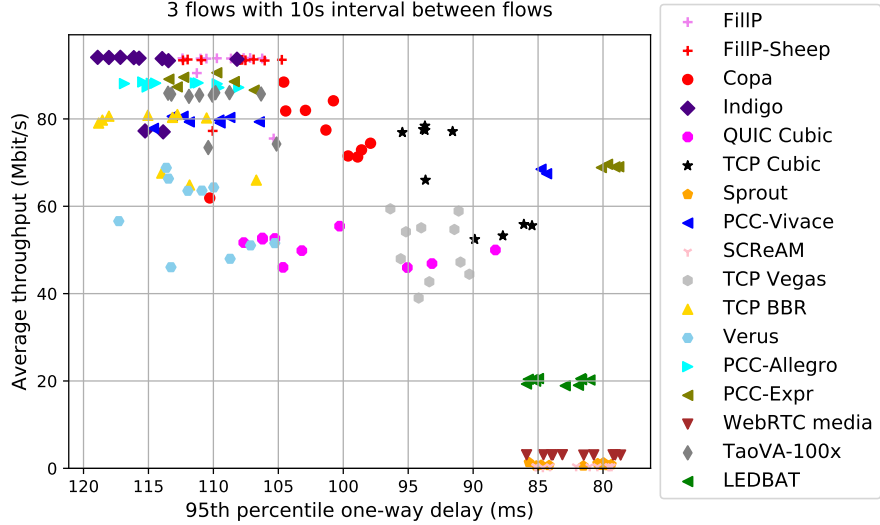
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
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-quick @ 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





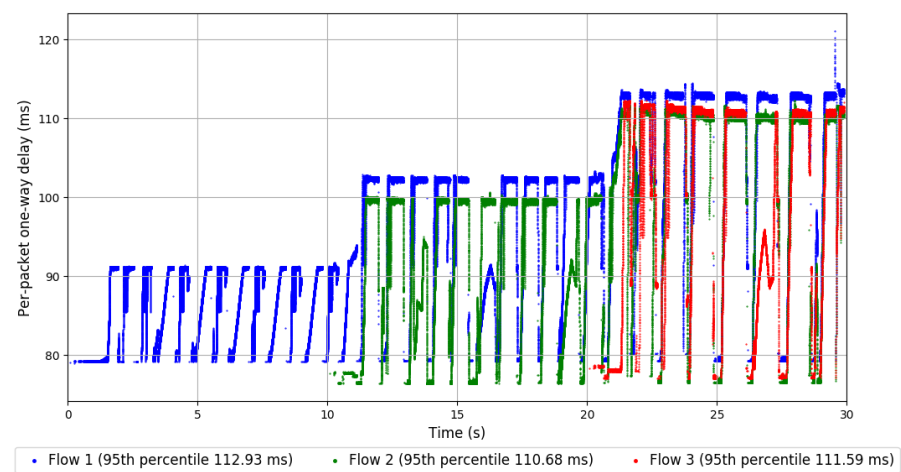
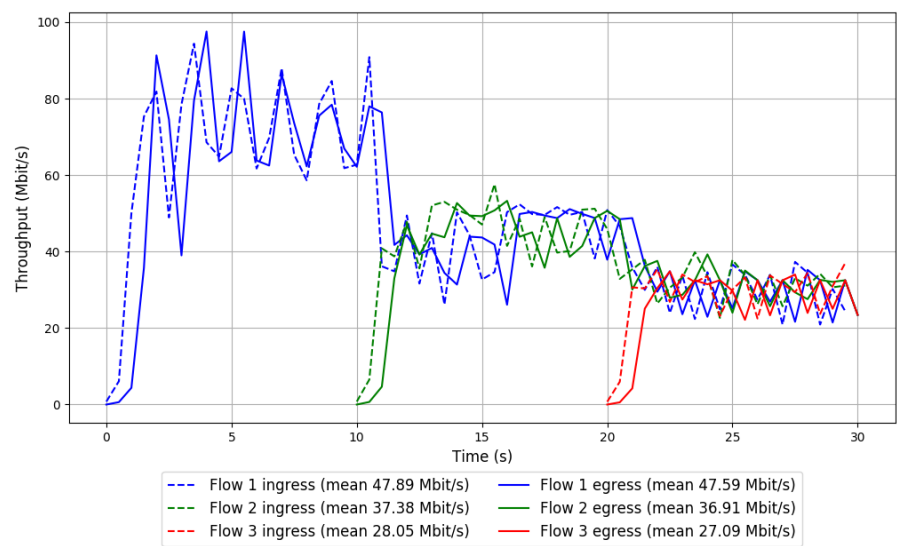
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	45.44	33.95	24.73	112.10	113.47	112.87	4.23	5.75	7.57
Copa	10	46.01	33.24	25.81	97.17	101.66	106.11	4.99	6.68	8.22
TCP Cubic	10	39.00	30.08	24.59	91.20	91.45	97.97	0.78	1.01	2.11
FillP	10	56.77	38.42	28.76	107.46	109.17	110.69	2.89	4.96	6.92
FillP-Sheep	10	56.74	38.38	29.46	107.54	108.07	109.82	3.61	6.24	7.25
Indigo	10	56.91	36.90	28.14	113.42	115.91	107.08	6.83	5.01	5.71
LEDBAT	10	12.89	8.60	4.15	83.23	83.25	83.63	1.11	1.67	3.38
PCC-Allegro	10	55.08	35.01	29.47	108.75	113.20	114.73	6.19	4.49	4.29
PCC-Expr	10	57.52	24.95	20.68	96.40	100.69	95.61	2.59	3.18	4.19
QUIC Cubic	10	27.83	23.70	20.83	99.09	101.87	102.61	1.49	1.88	2.36
SCReAM	10	0.21	0.21	0.21	81.38	81.15	81.23	0.49	0.86	1.75
Sprout	10	0.41	0.36	0.62	81.64	81.27	82.22	0.56	0.89	0.94
TaoVA-100x	10	49.80	36.95	27.23	108.70	110.66	109.59	2.55	3.74	5.59
TCP Vegas	10	27.61	22.73	23.30	92.32	92.70	101.62	0.67	0.95	2.19
Verus	10	31.43	30.51	19.29	108.73	110.73	113.78	4.42	5.32	7.10
PCC-Vivace	10	52.75	27.55	19.13	103.02	107.00	107.30	3.09	3.74	2.98
WebRTC media	10	1.75	0.97	0.37	81.43	81.36	81.82	0.31	0.68	1.96

Run 1: Statistics of TCP BBR

Start at: 2018-07-04 11:02:55  
End at: 2018-07-04 11:03:25  
Local clock offset: -2.635 ms  
Remote clock offset: 16.058 ms

# Below is generated by plot.py at 2018-07-04 14:27:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.01 Mbit/s  
95th percentile per-packet one-way delay: 112.772 ms  
Loss rate: 1.87%  
-- Flow 1:  
Average throughput: 47.59 Mbit/s  
95th percentile per-packet one-way delay: 112.930 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 36.91 Mbit/s  
95th percentile per-packet one-way delay: 110.678 ms  
Loss rate: 2.12%  
-- Flow 3:  
Average throughput: 27.09 Mbit/s  
95th percentile per-packet one-way delay: 111.591 ms  
Loss rate: 5.07%

Run 1: Report of TCP BBR — Data Link

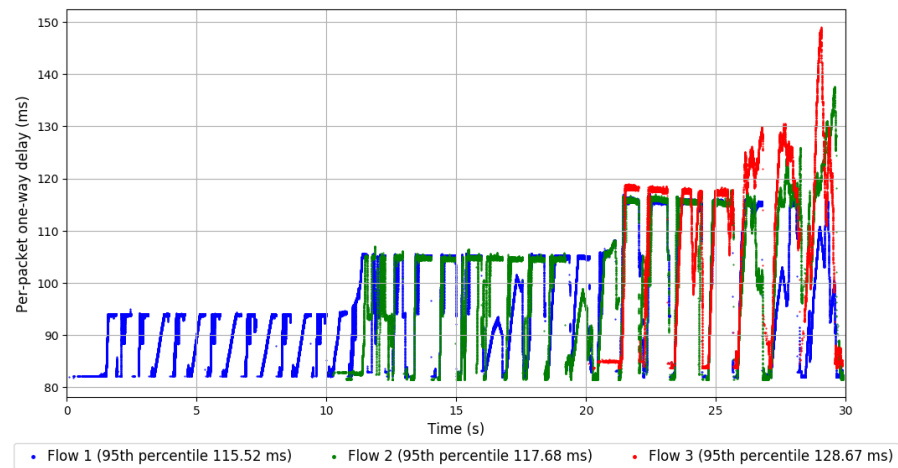
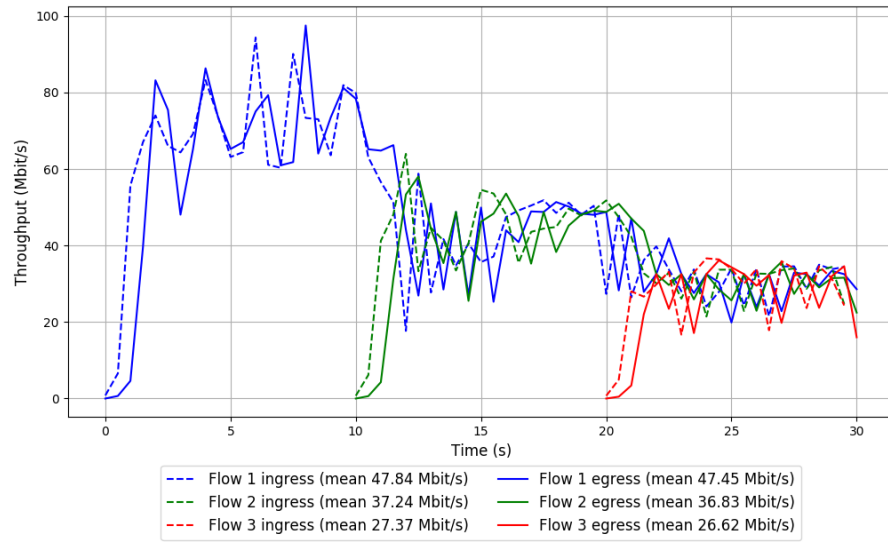


Run 2: Statistics of TCP BBR

Start at: 2018-07-04 11:24:07  
End at: 2018-07-04 11:24:37  
Local clock offset: -6.685 ms  
Remote clock offset: 12.858 ms

# Below is generated by plot.py at 2018-07-04 14:27:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.63 Mbit/s  
95th percentile per-packet one-way delay: 118.045 ms  
Loss rate: 1.91%  
-- Flow 1:  
Average throughput: 47.45 Mbit/s  
95th percentile per-packet one-way delay: 115.517 ms  
Loss rate: 1.36%  
-- Flow 2:  
Average throughput: 36.83 Mbit/s  
95th percentile per-packet one-way delay: 117.680 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 26.62 Mbit/s  
95th percentile per-packet one-way delay: 128.669 ms  
Loss rate: 4.69%

## Run 2: Report of TCP BBR — Data Link

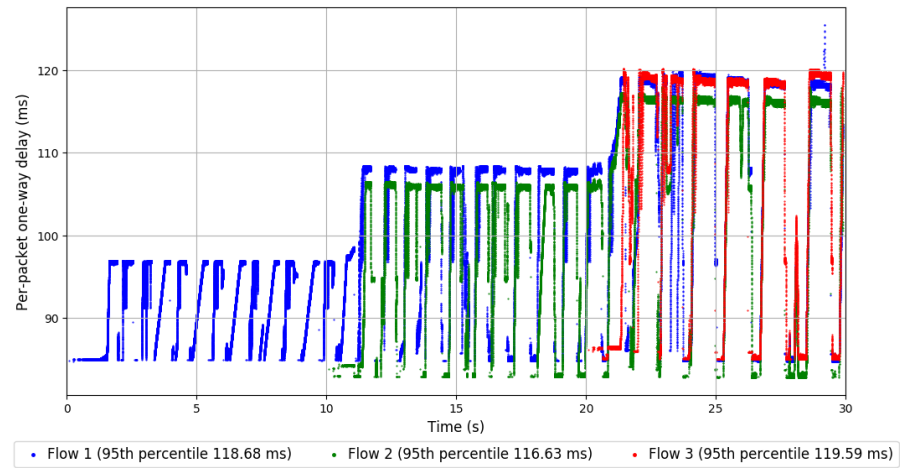
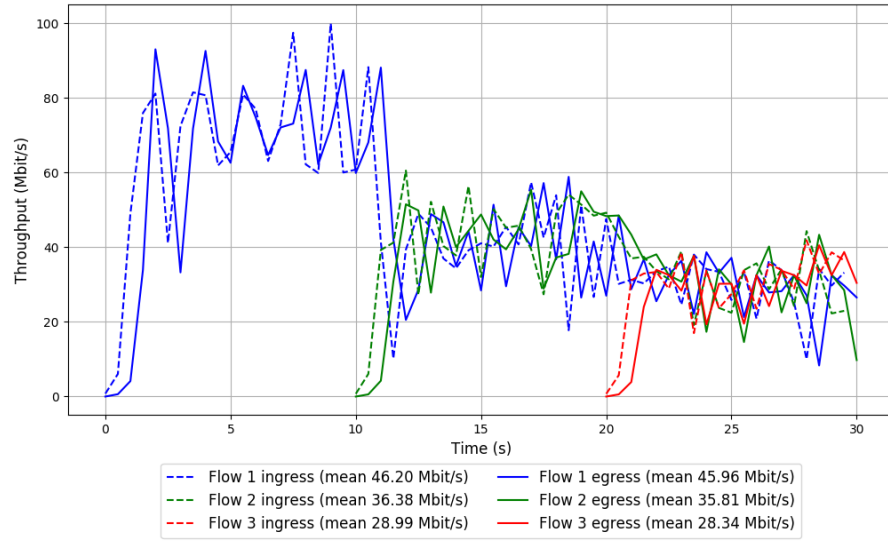


Run 3: Statistics of TCP BBR

Start at: 2018-07-04 11:45:32  
End at: 2018-07-04 11:46:02  
Local clock offset: -5.167 ms  
Remote clock offset: 10.574 ms

# Below is generated by plot.py at 2018-07-04 14:27:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.05 Mbit/s  
95th percentile per-packet one-way delay: 118.835 ms  
Loss rate: 1.89%  
-- Flow 1:  
Average throughput: 45.96 Mbit/s  
95th percentile per-packet one-way delay: 118.677 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 35.81 Mbit/s  
95th percentile per-packet one-way delay: 116.630 ms  
Loss rate: 2.45%  
-- Flow 3:  
Average throughput: 28.34 Mbit/s  
95th percentile per-packet one-way delay: 119.594 ms  
Loss rate: 4.03%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-04 12:06:52

End at: 2018-07-04 12:07:23

Local clock offset: -1.23 ms

Remote clock offset: 8.881 ms

# Below is generated by plot.py at 2018-07-04 14:27:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 113.148 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 113.429 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 34.86 Mbit/s

95th percentile per-packet one-way delay: 111.537 ms

Loss rate: 2.64%

-- Flow 3:

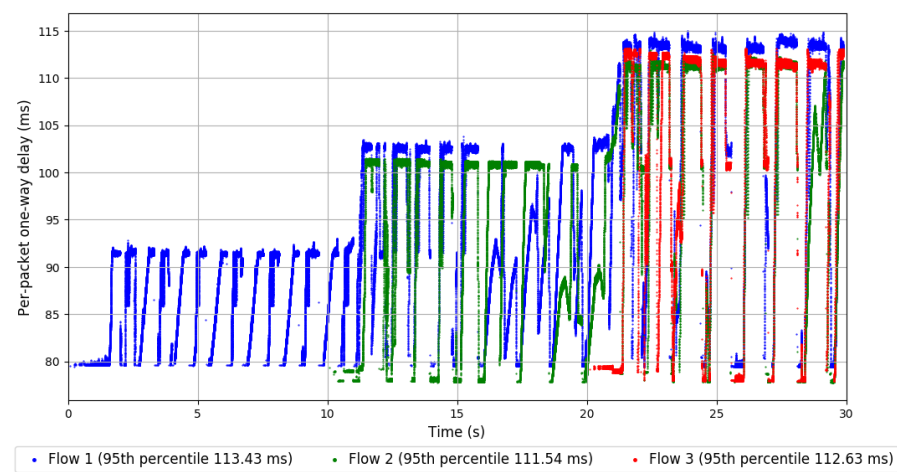
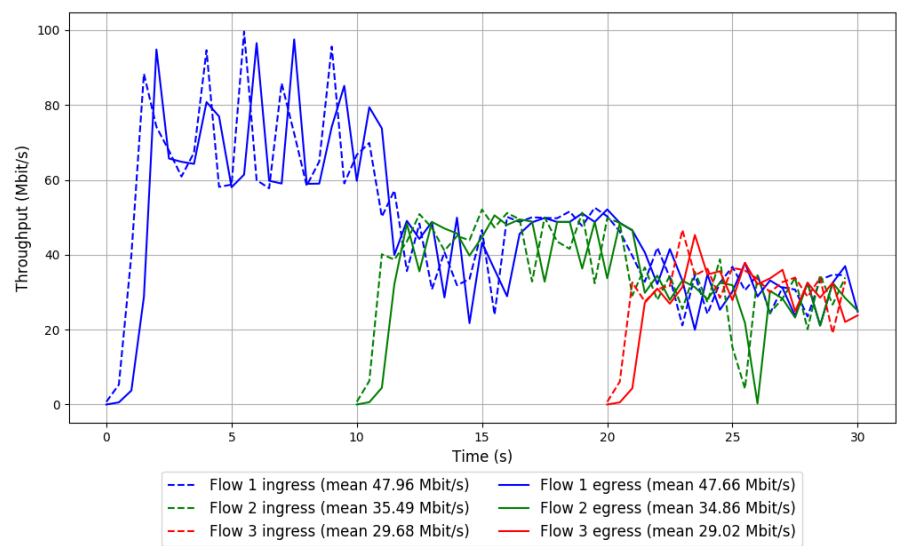
Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 112.626 ms

Loss rate: 3.99%



Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-04 12:28:12

End at: 2018-07-04 12:28:42

Local clock offset: -2.631 ms

Remote clock offset: 1.521 ms

# Below is generated by plot.py at 2018-07-04 14:27:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 113.977 ms

Loss rate: 11.98%

-- Flow 1:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 105.480 ms

Loss rate: 10.88%

-- Flow 2:

Average throughput: 29.49 Mbit/s

95th percentile per-packet one-way delay: 115.097 ms

Loss rate: 13.30%

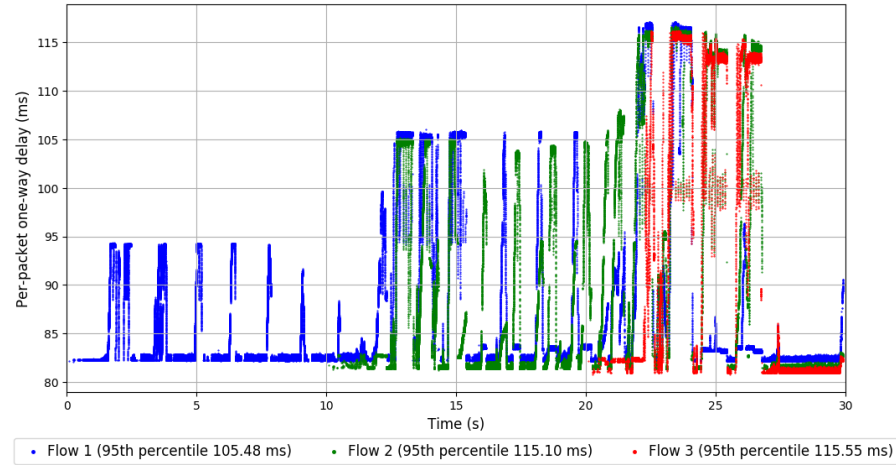
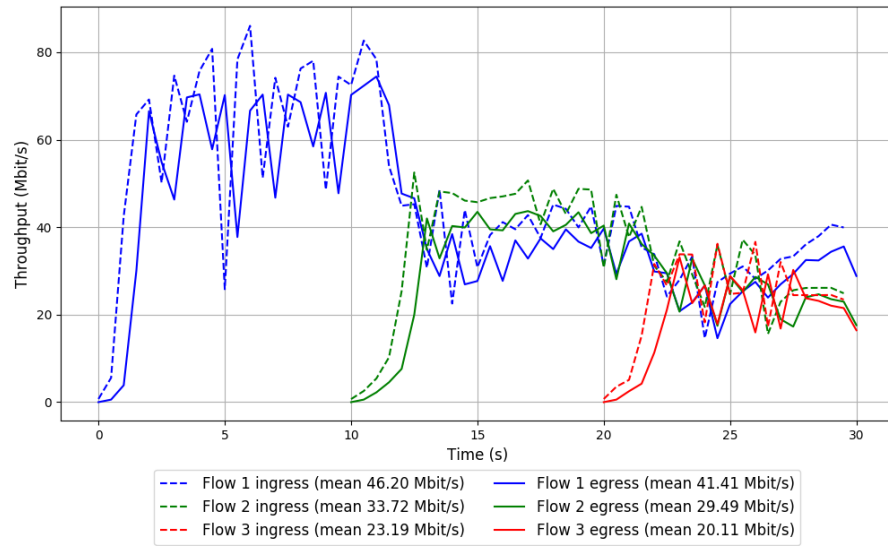
-- Flow 3:

Average throughput: 20.11 Mbit/s

95th percentile per-packet one-way delay: 115.554 ms

Loss rate: 14.76%

## Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-04 12:49:38

End at: 2018-07-04 12:50:08

Local clock offset: -2.498 ms

Remote clock offset: 9.696 ms

# Below is generated by plot.py at 2018-07-04 14:27:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.23 Mbit/s

95th percentile per-packet one-way delay: 110.524 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 110.006 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 36.24 Mbit/s

95th percentile per-packet one-way delay: 110.770 ms

Loss rate: 2.02%

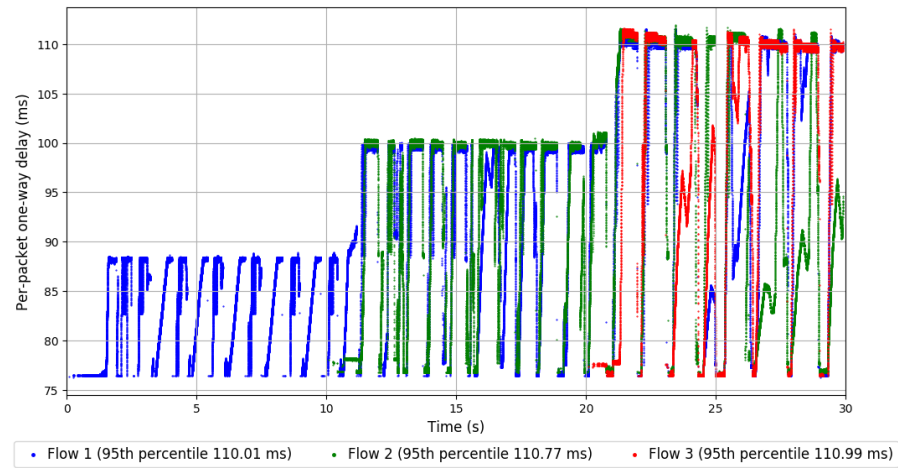
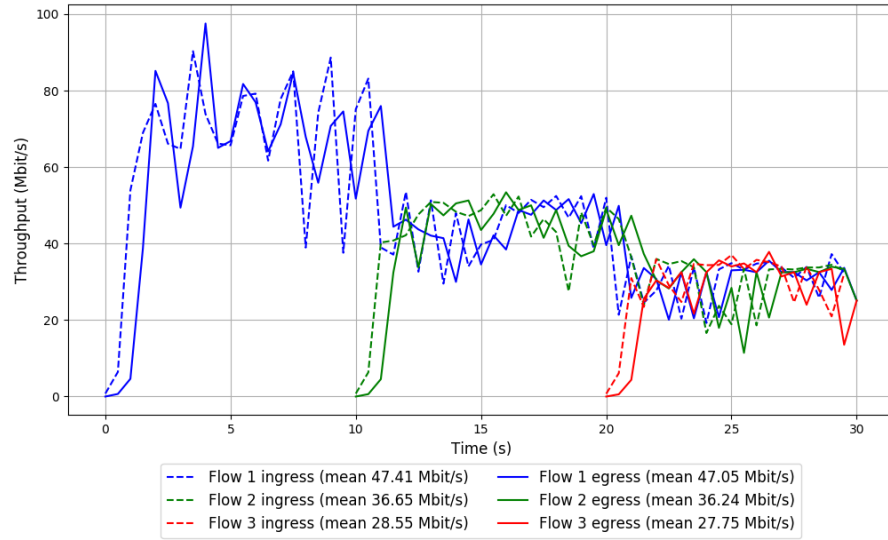
-- Flow 3:

Average throughput: 27.75 Mbit/s

95th percentile per-packet one-way delay: 110.986 ms

Loss rate: 4.57%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-04 13:11:03

End at: 2018-07-04 13:11:33

Local clock offset: -2.659 ms

Remote clock offset: 2.945 ms

# Below is generated by plot.py at 2018-07-04 14:27:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 118.545 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 47.71 Mbit/s

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

Loss rate: 1.18%

-- Flow 2:

Average throughput: 34.67 Mbit/s

95th percentile per-packet one-way delay: 116.902 ms

Loss rate: 2.25%

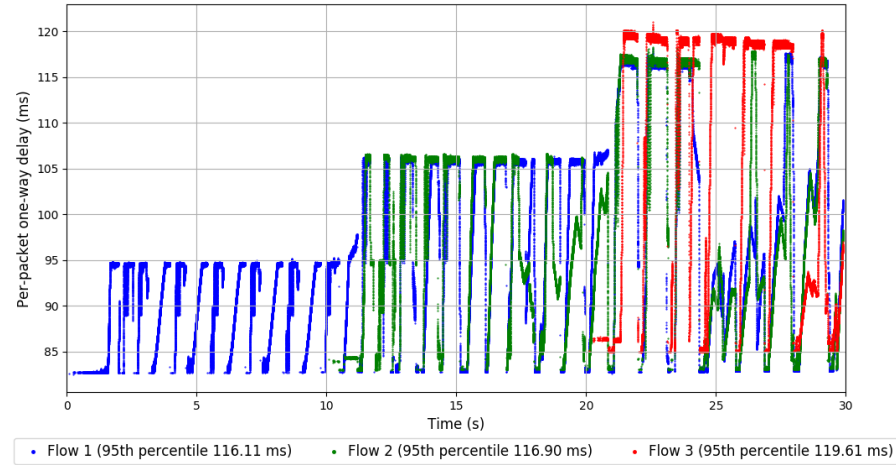
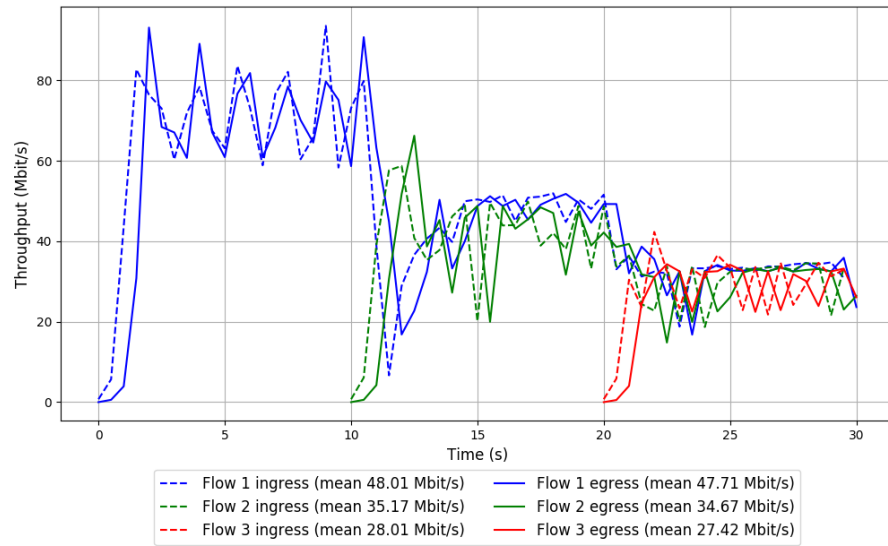
-- Flow 3:

Average throughput: 27.42 Mbit/s

95th percentile per-packet one-way delay: 119.609 ms

Loss rate: 3.81%

## Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-04 13:32:19

End at: 2018-07-04 13:32:49

Local clock offset: -7.286 ms

Remote clock offset: 6.051 ms

# Below is generated by plot.py at 2018-07-04 14:27:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.85 Mbit/s

95th percentile per-packet one-way delay: 115.046 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 112.059 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 34.99 Mbit/s

95th percentile per-packet one-way delay: 115.991 ms

Loss rate: 2.08%

-- Flow 3:

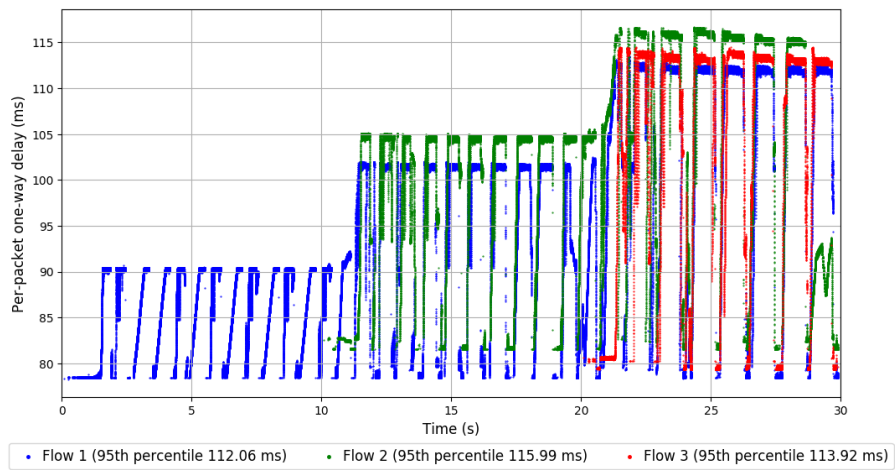
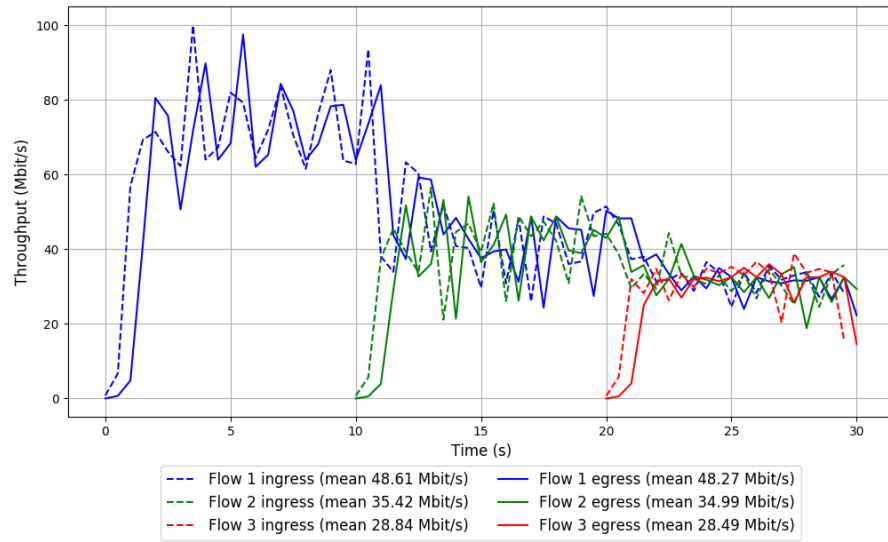
Average throughput: 28.49 Mbit/s

95th percentile per-packet one-way delay: 113.919 ms

Loss rate: 3.19%



# Run 8: Report of TCP BBR — Data Link

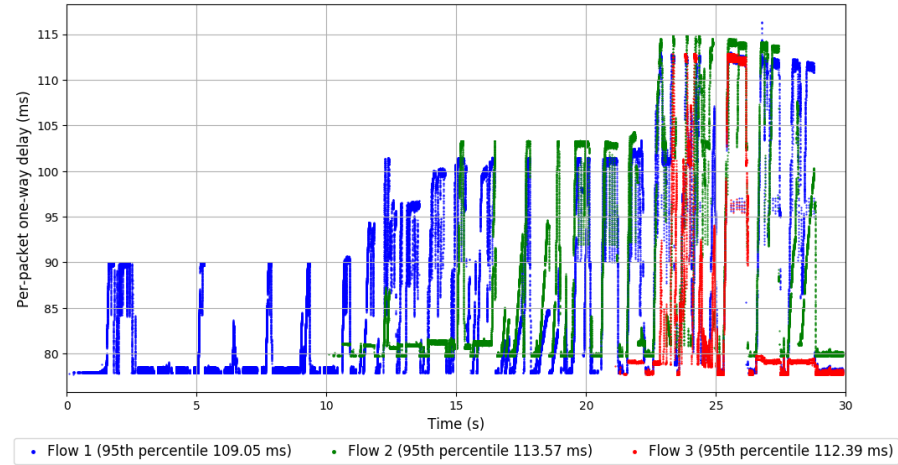
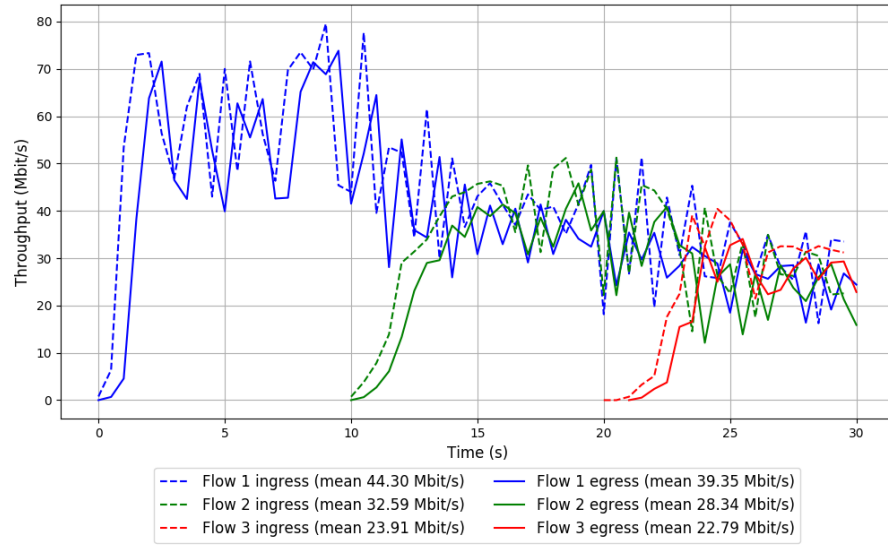


Run 9: Statistics of TCP BBR

Start at: 2018-07-04 13:54:04  
End at: 2018-07-04 13:54:34  
Local clock offset: -3.387 ms  
Remote clock offset: 14.389 ms

# Below is generated by plot.py at 2018-07-04 14:28:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.88 Mbit/s  
95th percentile per-packet one-way delay: 111.835 ms  
Loss rate: 12.78%  
-- Flow 1:  
Average throughput: 39.35 Mbit/s  
95th percentile per-packet one-way delay: 109.054 ms  
Loss rate: 11.68%  
-- Flow 2:  
Average throughput: 28.34 Mbit/s  
95th percentile per-packet one-way delay: 113.573 ms  
Loss rate: 13.81%  
-- Flow 3:  
Average throughput: 22.79 Mbit/s  
95th percentile per-packet one-way delay: 112.388 ms  
Loss rate: 16.10%

# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-04 14:15:23

End at: 2018-07-04 14:15:53

Local clock offset: -2.436 ms

Remote clock offset: 8.707 ms

# Below is generated by plot.py at 2018-07-04 14:28:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.00 Mbit/s

95th percentile per-packet one-way delay: 106.694 ms

Loss rate: 12.55%

-- Flow 1:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 107.770 ms

Loss rate: 11.13%

-- Flow 2:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 105.794 ms

Loss rate: 14.86%

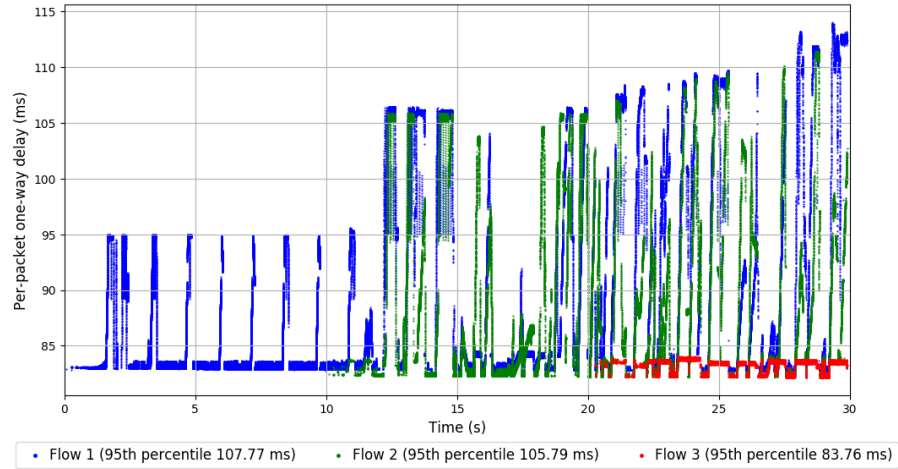
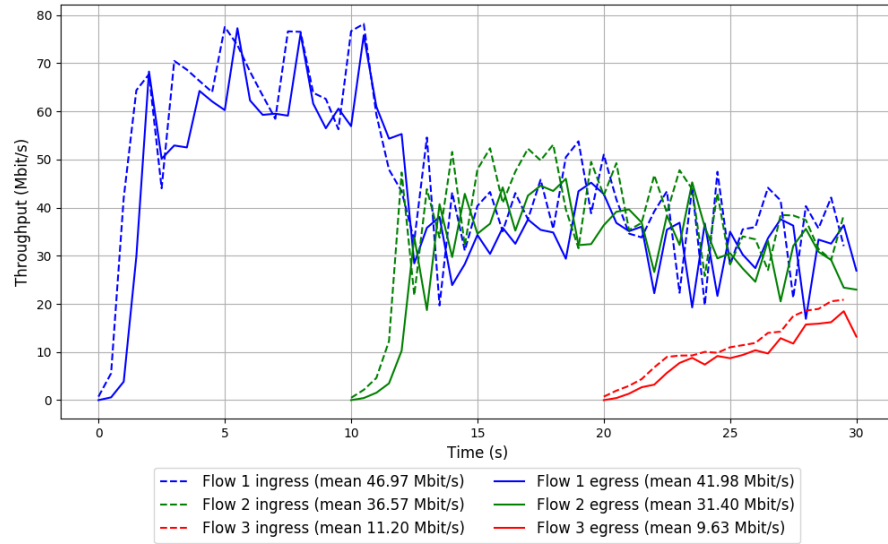
-- Flow 3:

Average throughput: 9.63 Mbit/s

95th percentile per-packet one-way delay: 83.757 ms

Loss rate: 15.45%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-04 10:54:20

End at: 2018-07-04 10:54:50

Local clock offset: -2.59 ms

Remote clock offset: 7.243 ms

# Below is generated by plot.py at 2018-07-04 14:29:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 104.583 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 106.736 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 37.90 Mbit/s

95th percentile per-packet one-way delay: 101.884 ms

Loss rate: 0.98%

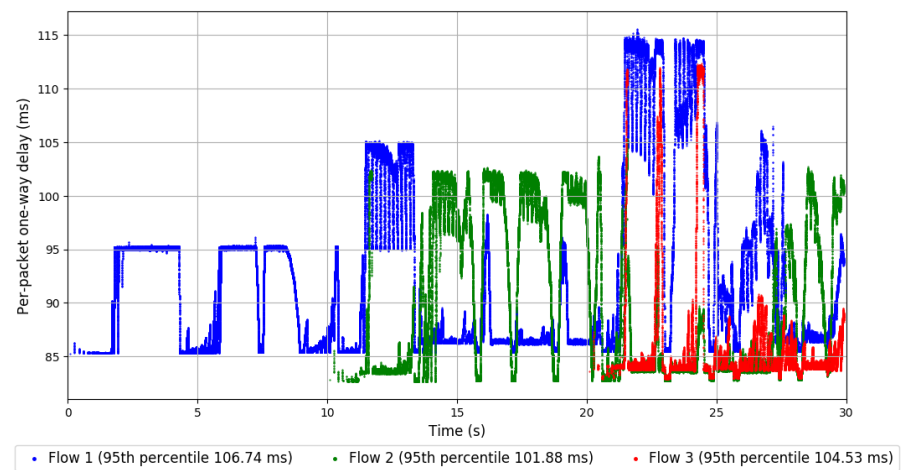
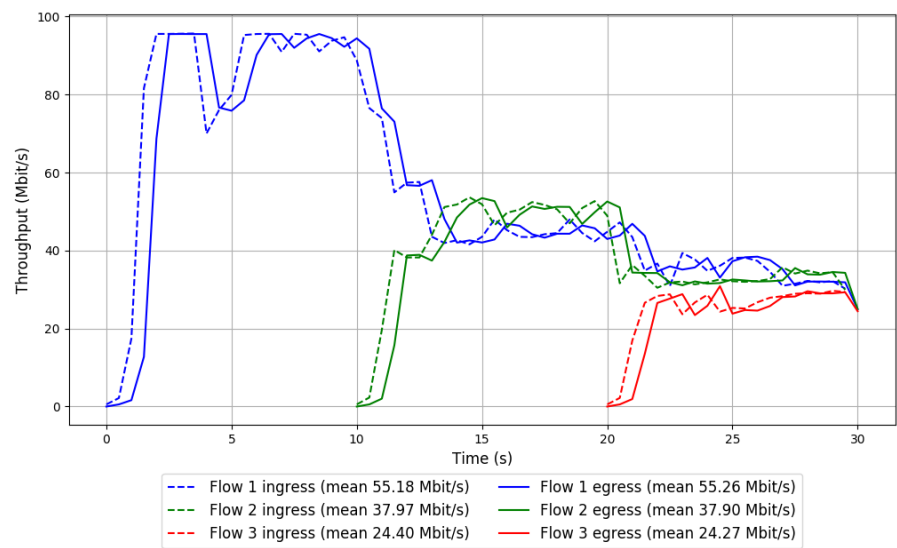
-- Flow 3:

Average throughput: 24.27 Mbit/s

95th percentile per-packet one-way delay: 104.535 ms

Loss rate: 2.12%

Run 1: Report of Copa — Data Link



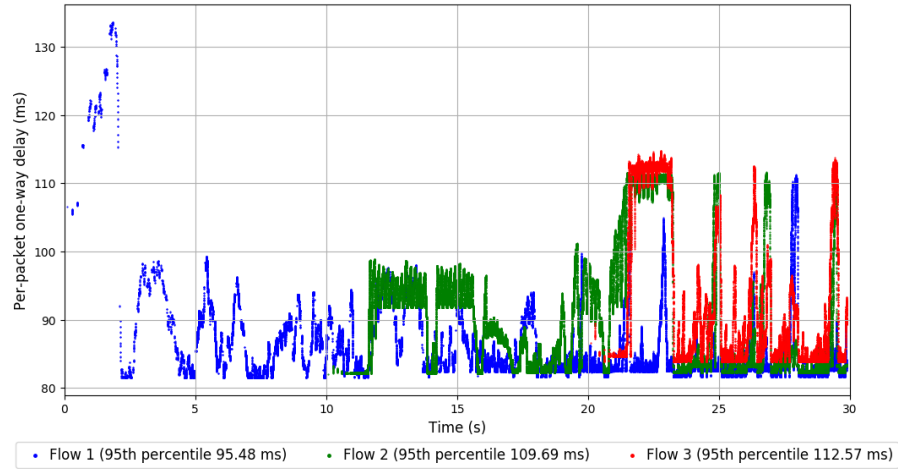
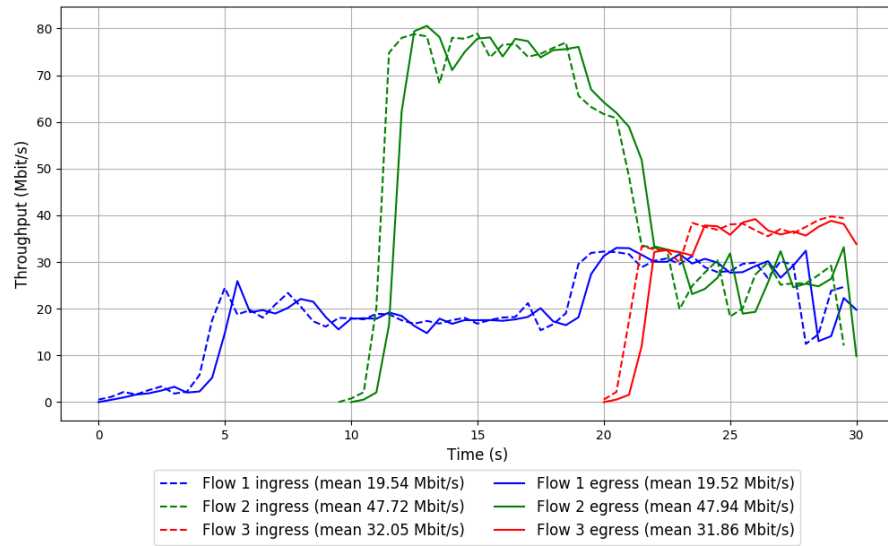
Run 2: Statistics of Copa

Start at: 2018-07-04 11:15:33  
End at: 2018-07-04 11:16:03  
Local clock offset: -4.841 ms  
Remote clock offset: 13.326 ms

# Below is generated by plot.py at 2018-07-04 14:29:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.90 Mbit/s  
95th percentile per-packet one-way delay: 110.279 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 19.52 Mbit/s  
95th percentile per-packet one-way delay: 95.481 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 47.94 Mbit/s  
95th percentile per-packet one-way delay: 109.691 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 31.86 Mbit/s  
95th percentile per-packet one-way delay: 112.571 ms  
Loss rate: 2.26%



## Run 2: Report of Copa — Data Link

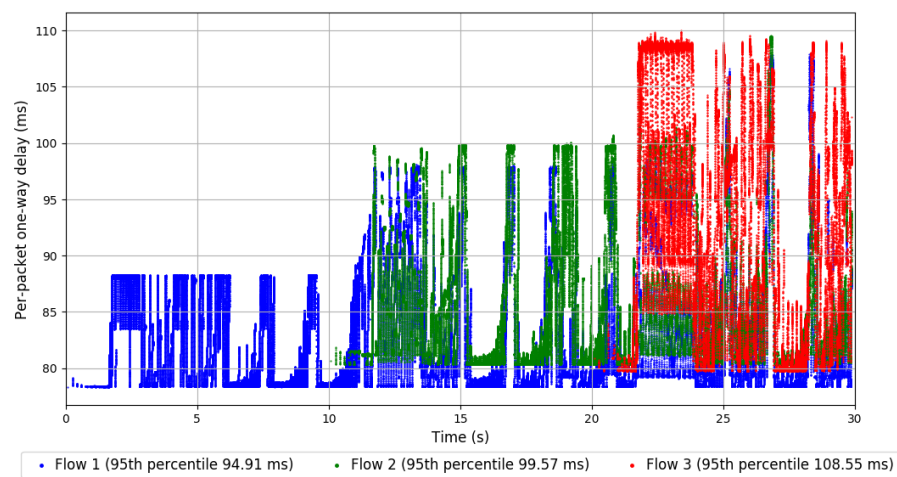
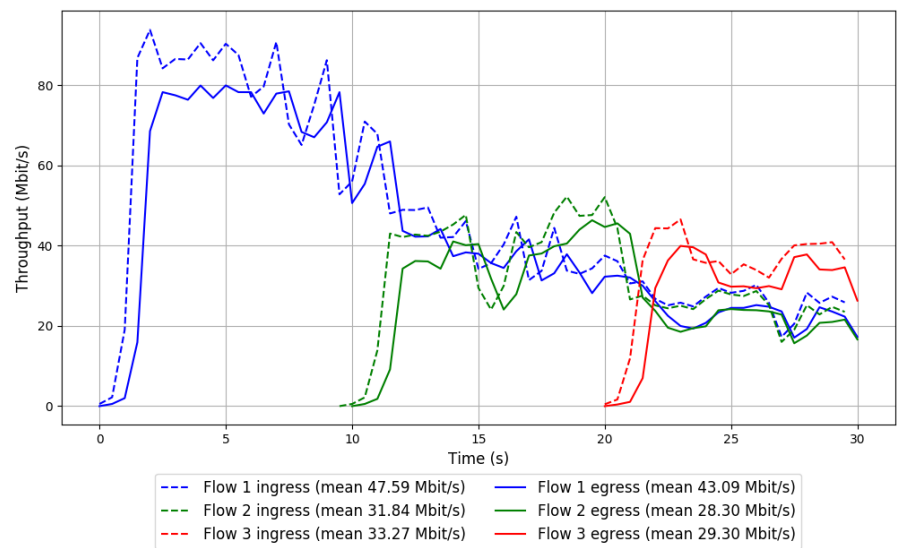


Run 3: Statistics of Copa

Start at: 2018-07-04 11:36:45  
End at: 2018-07-04 11:37:15  
Local clock offset: -7.999 ms  
Remote clock offset: 15.484 ms

# Below is generated by plot.py at 2018-07-04 14:29:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.52 Mbit/s  
95th percentile per-packet one-way delay: 99.625 ms  
Loss rate: 10.93%  
-- Flow 1:  
Average throughput: 43.09 Mbit/s  
95th percentile per-packet one-way delay: 94.909 ms  
Loss rate: 9.95%  
-- Flow 2:  
Average throughput: 28.30 Mbit/s  
95th percentile per-packet one-way delay: 99.572 ms  
Loss rate: 11.84%  
-- Flow 3:  
Average throughput: 29.30 Mbit/s  
95th percentile per-packet one-way delay: 108.551 ms  
Loss rate: 13.43%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-04 11:58:15

End at: 2018-07-04 11:58:45

Local clock offset: -2.036 ms

Remote clock offset: 8.092 ms

# Below is generated by plot.py at 2018-07-04 14:29:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 104.432 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 46.01 Mbit/s

95th percentile per-packet one-way delay: 93.962 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 113.264 ms

Loss rate: 0.85%

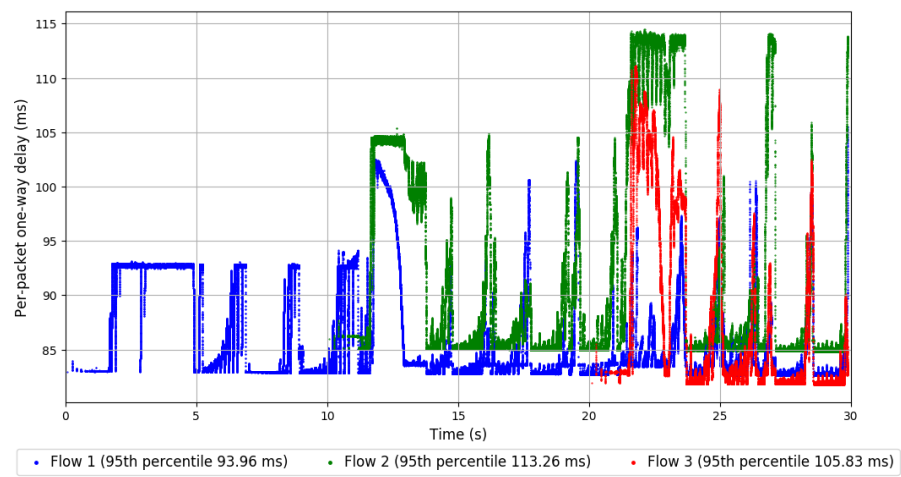
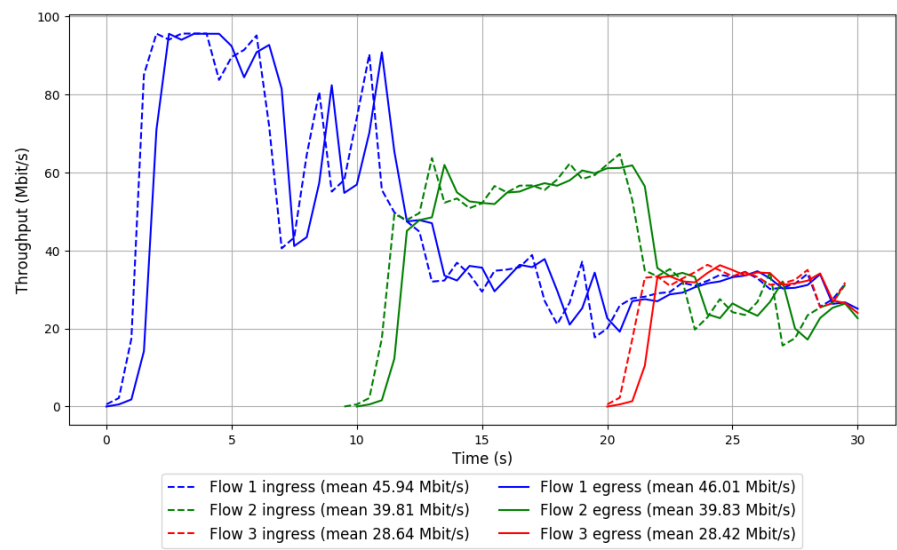
-- Flow 3:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 105.833 ms

Loss rate: 2.42%

Run 4: Report of Copa — Data Link

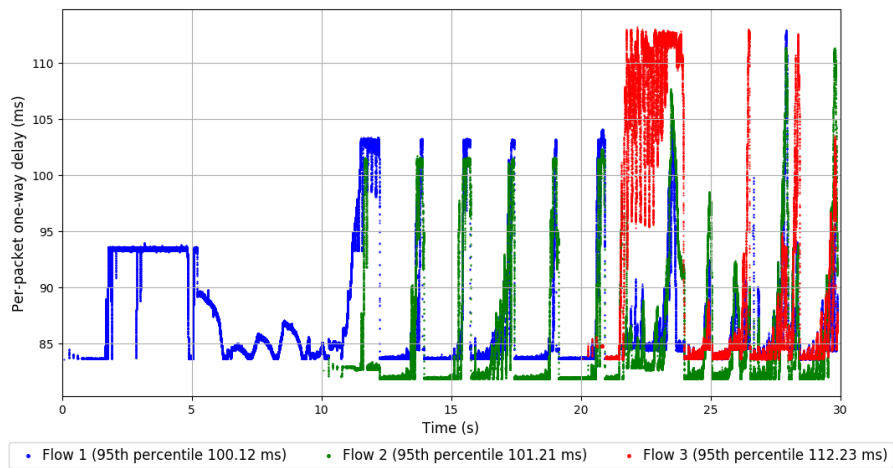
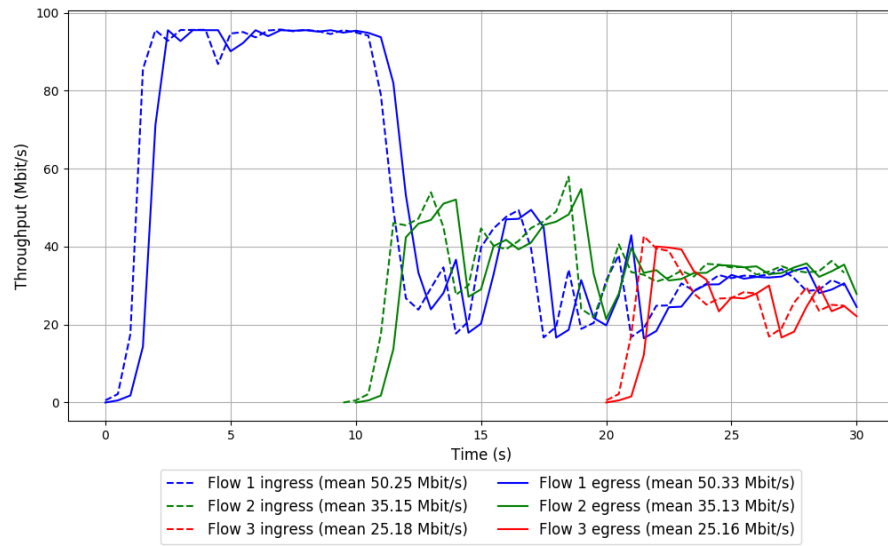


Run 5: Statistics of Copa

Start at: 2018-07-04 12:19:35  
End at: 2018-07-04 12:20:05  
Local clock offset: -2.216 ms  
Remote clock offset: 2.442 ms

# Below is generated by plot.py at 2018-07-04 14:29:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.95 Mbit/s  
95th percentile per-packet one-way delay: 102.909 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 50.33 Mbit/s  
95th percentile per-packet one-way delay: 100.117 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 35.13 Mbit/s  
95th percentile per-packet one-way delay: 101.209 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 25.16 Mbit/s  
95th percentile per-packet one-way delay: 112.235 ms  
Loss rate: 1.76%

## Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-04 12:41:04

End at: 2018-07-04 12:41:34

Local clock offset: -2.635 ms

Remote clock offset: 4.212 ms

# Below is generated by plot.py at 2018-07-04 14:29:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.15 Mbit/s

95th percentile per-packet one-way delay: 100.759 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 49.67 Mbit/s

95th percentile per-packet one-way delay: 95.074 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 92.139 ms

Loss rate: 0.72%

-- Flow 3:

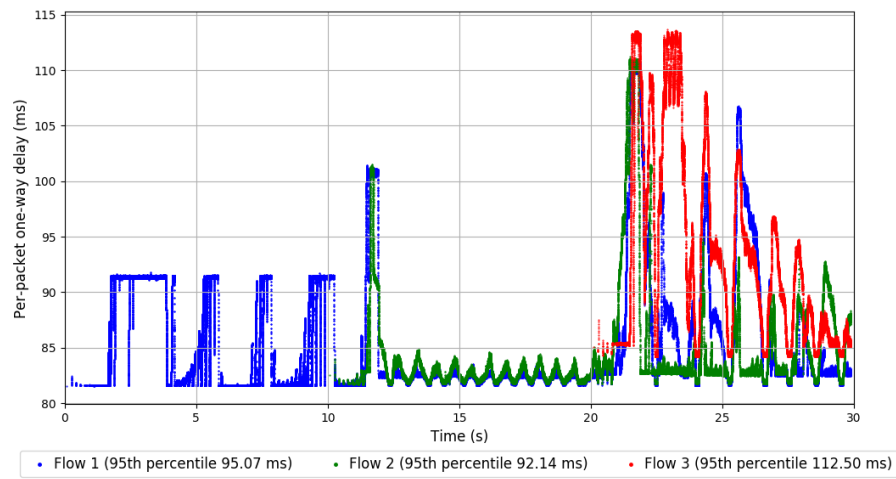
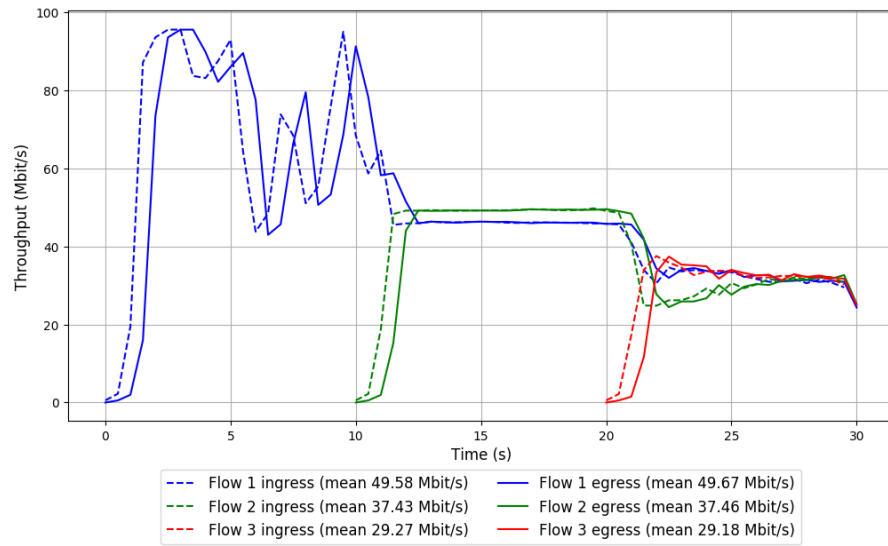
Average throughput: 29.18 Mbit/s

95th percentile per-packet one-way delay: 112.499 ms

Loss rate: 1.96%



## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-04 13:02:20

End at: 2018-07-04 13:02:50

Local clock offset: -2.36 ms

Remote clock offset: 9.907 ms

# Below is generated by plot.py at 2018-07-04 14:29:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.91 Mbit/s

95th percentile per-packet one-way delay: 98.595 ms

Loss rate: 14.85%

-- Flow 1:

Average throughput: 54.26 Mbit/s

95th percentile per-packet one-way delay: 98.671 ms

Loss rate: 13.22%

-- Flow 2:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 96.167 ms

Loss rate: 18.88%

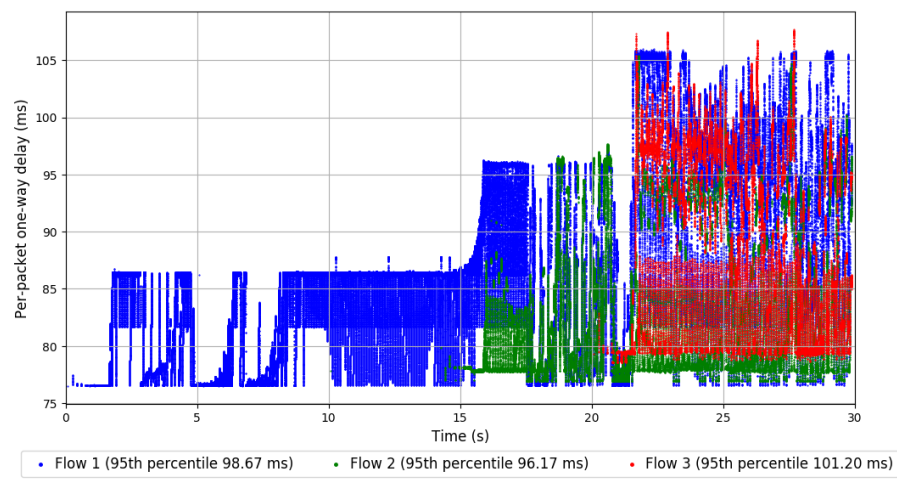
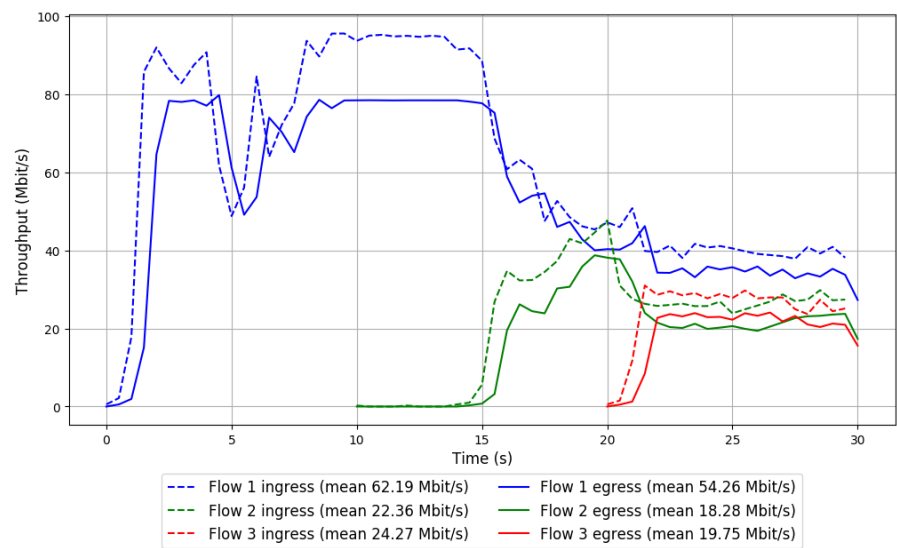
-- Flow 3:

Average throughput: 19.75 Mbit/s

95th percentile per-packet one-way delay: 101.204 ms

Loss rate: 19.98%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-04 13:23:44

End at: 2018-07-04 13:24:14

Local clock offset: -6.301 ms

Remote clock offset: 7.55 ms

# Below is generated by plot.py at 2018-07-04 14:29:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 98.892 ms

Loss rate: 12.82%

-- Flow 1:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 95.884 ms

Loss rate: 12.38%

-- Flow 2:

Average throughput: 32.40 Mbit/s

95th percentile per-packet one-way delay: 102.308 ms

Loss rate: 11.62%

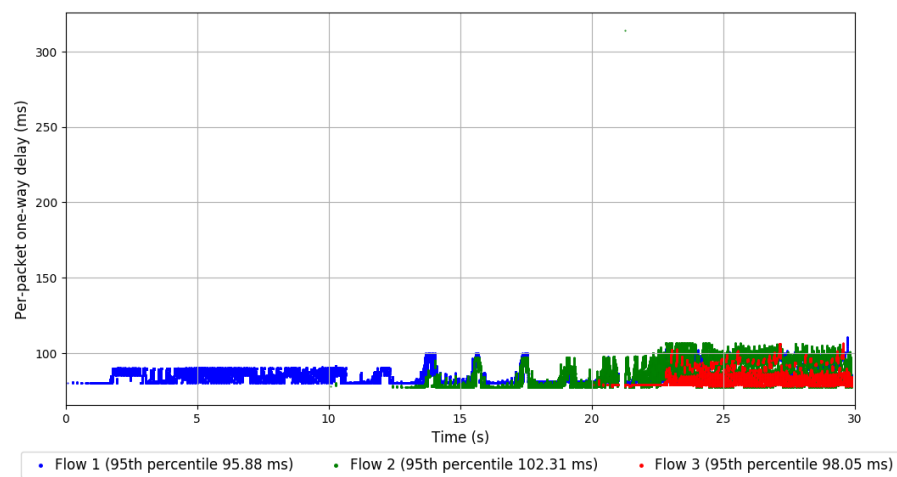
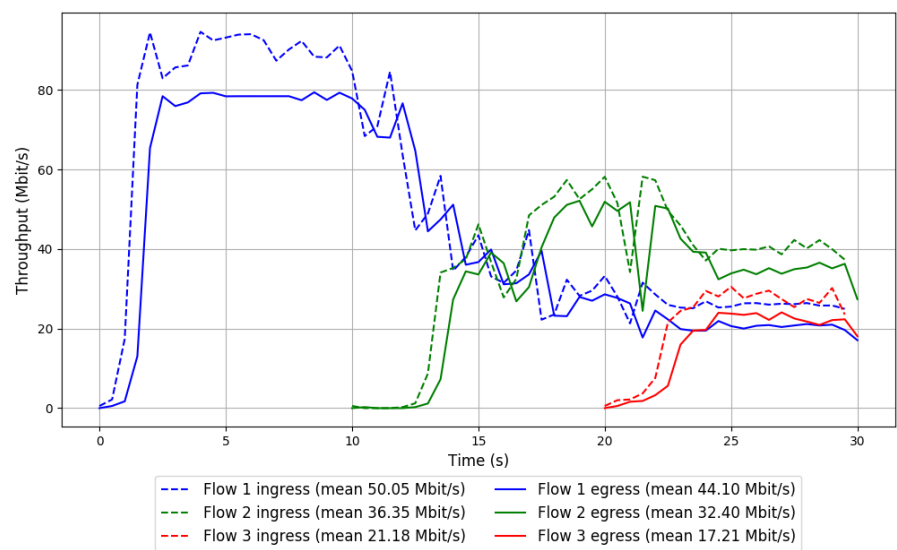
-- Flow 3:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 98.048 ms

Loss rate: 20.08%

Run 8: Report of Copa — Data Link

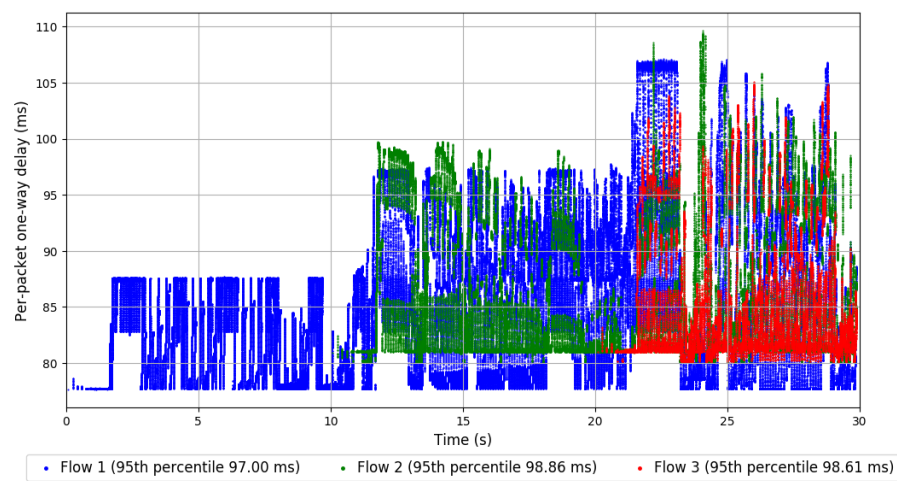
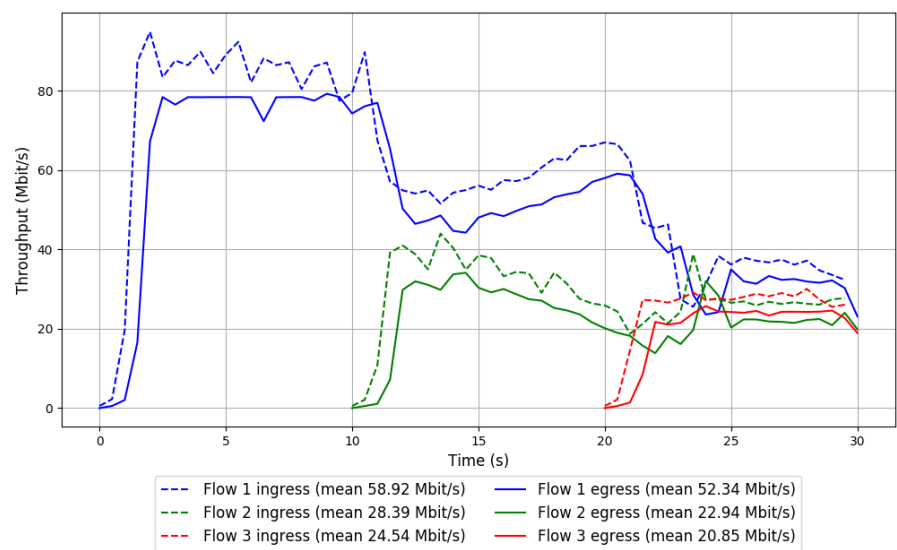


Run 9: Statistics of Copa

Start at: 2018-07-04 13:45:18  
End at: 2018-07-04 13:45:48  
Local clock offset: -5.367 ms  
Remote clock offset: 11.941 ms

# Below is generated by plot.py at 2018-07-04 14:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.43 Mbit/s  
95th percentile per-packet one-way delay: 97.901 ms  
Loss rate: 13.91%  
-- Flow 1:  
Average throughput: 52.34 Mbit/s  
95th percentile per-packet one-way delay: 97.001 ms  
Loss rate: 11.64%  
-- Flow 2:  
Average throughput: 22.94 Mbit/s  
95th percentile per-packet one-way delay: 98.861 ms  
Loss rate: 19.88%  
-- Flow 3:  
Average throughput: 20.85 Mbit/s  
95th percentile per-packet one-way delay: 98.609 ms  
Loss rate: 16.43%

Run 9: Report of Copa — Data Link



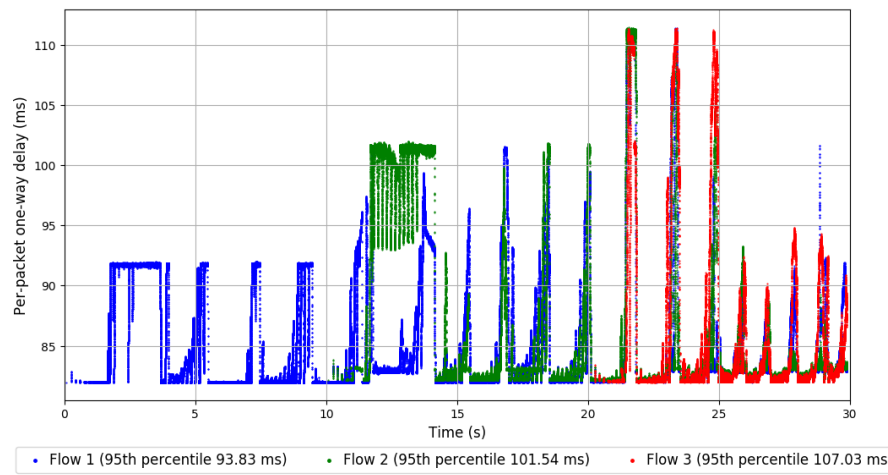
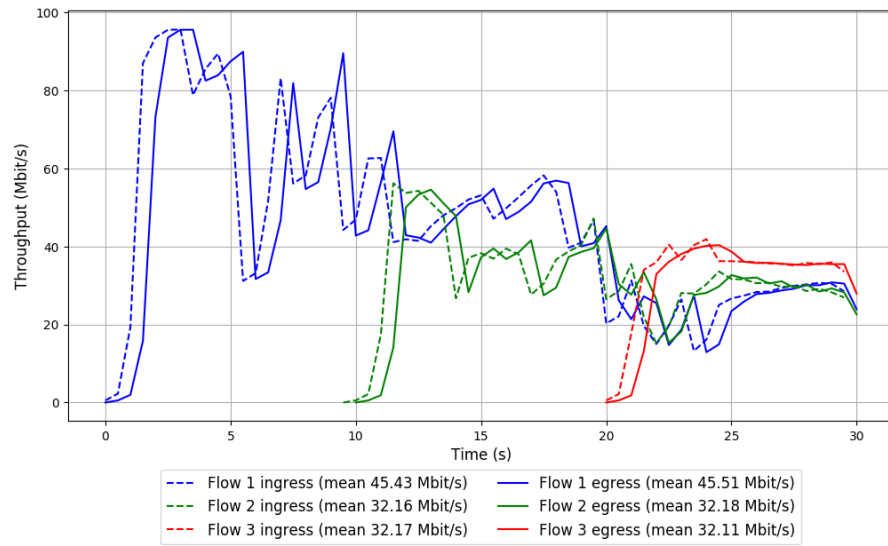
Run 10: Statistics of Copa

Start at: 2018-07-04 14:06:47  
End at: 2018-07-04 14:07:17  
Local clock offset: -2.256 ms  
Remote clock offset: 12.178 ms

# Below is generated by plot.py at 2018-07-04 14:30:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.45 Mbit/s  
95th percentile per-packet one-way delay: 101.337 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 45.51 Mbit/s  
95th percentile per-packet one-way delay: 93.826 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 32.18 Mbit/s  
95th percentile per-packet one-way delay: 101.538 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 32.11 Mbit/s  
95th percentile per-packet one-way delay: 107.029 ms  
Loss rate: 1.81%



# Run 10: Report of Copa — Data Link

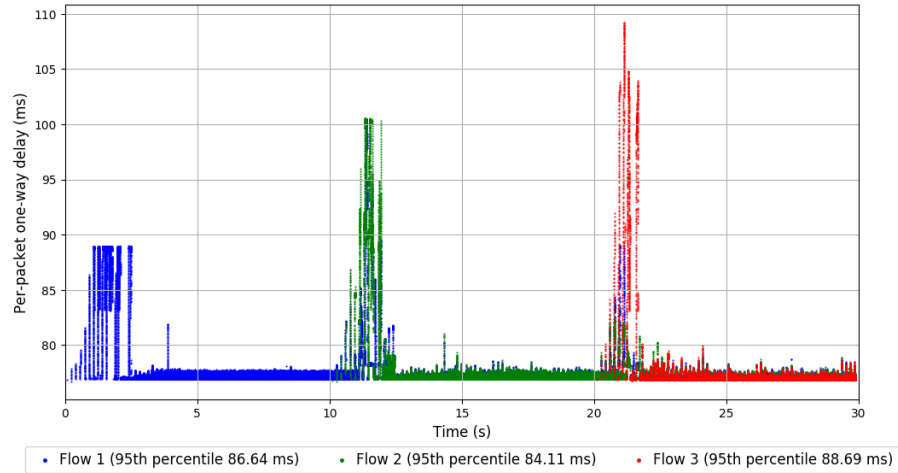
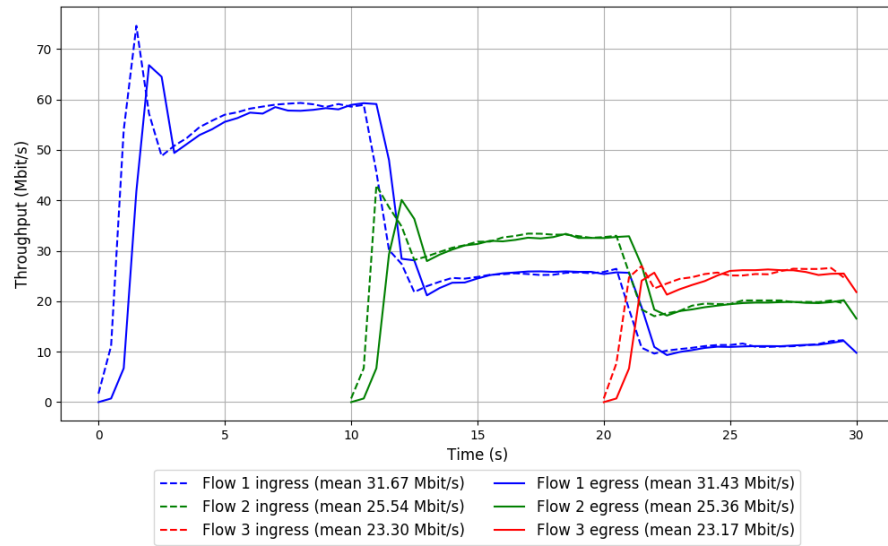


Run 1: Statistics of TCP Cubic

Start at: 2018-07-04 10:58:08  
End at: 2018-07-04 10:58:38  
Local clock offset: -2.604 ms  
Remote clock offset: 14.692 ms

# Below is generated by plot.py at 2018-07-04 14:30:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.86 Mbit/s  
95th percentile per-packet one-way delay: 86.096 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 31.43 Mbit/s  
95th percentile per-packet one-way delay: 86.642 ms  
Loss rate: 1.30%  
-- Flow 2:  
Average throughput: 25.36 Mbit/s  
95th percentile per-packet one-way delay: 84.112 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 23.17 Mbit/s  
95th percentile per-packet one-way delay: 88.693 ms  
Loss rate: 2.18%

# Run 1: Report of TCP Cubic — Data Link

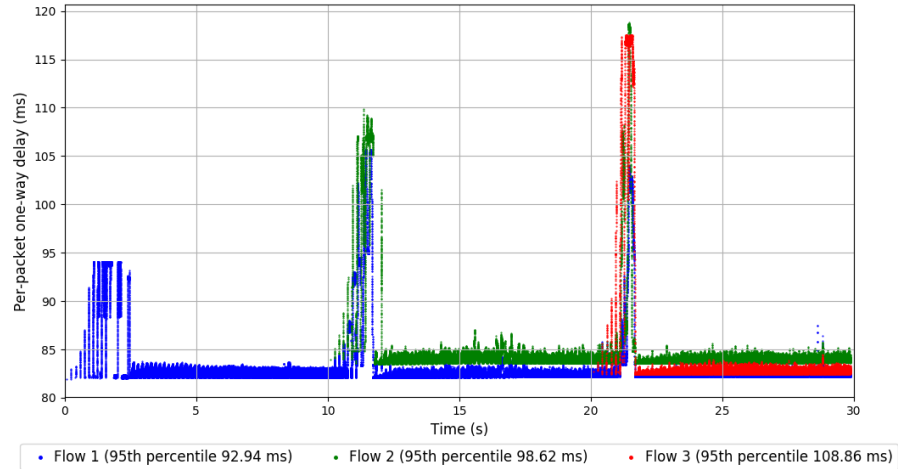
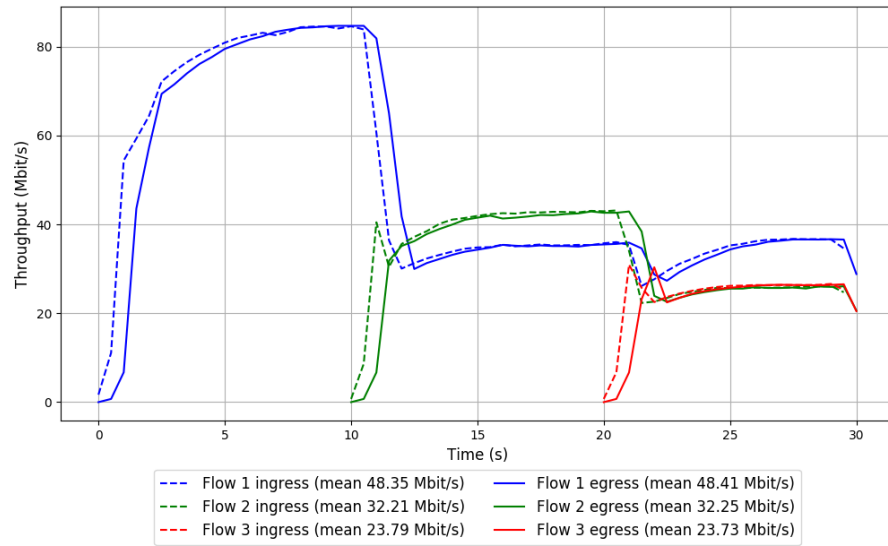


Run 2: Statistics of TCP Cubic

Start at: 2018-07-04 11:19:19  
End at: 2018-07-04 11:19:49  
Local clock offset: -5.854 ms  
Remote clock offset: 13.802 ms

# Below is generated by plot.py at 2018-07-04 14:30:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.62 Mbit/s  
95th percentile per-packet one-way delay: 93.830 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 48.41 Mbit/s  
95th percentile per-packet one-way delay: 92.935 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 32.25 Mbit/s  
95th percentile per-packet one-way delay: 98.617 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 23.73 Mbit/s  
95th percentile per-packet one-way delay: 108.857 ms  
Loss rate: 1.91%

## Run 2: Report of TCP Cubic — Data Link

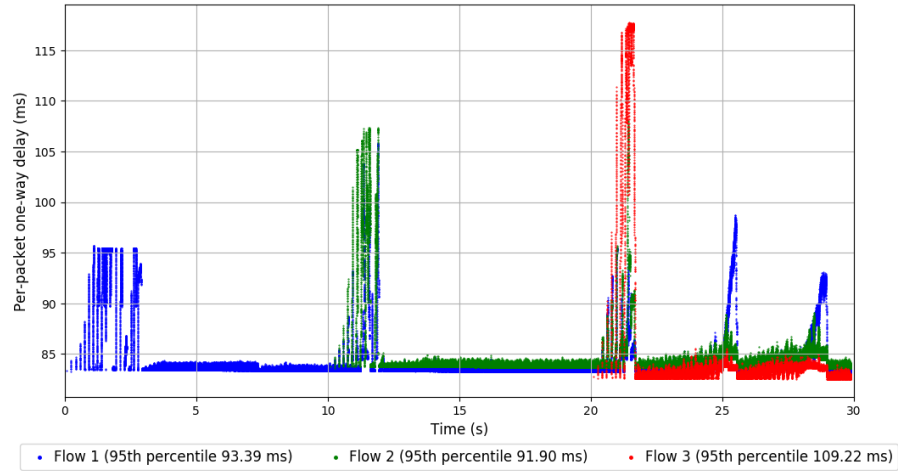
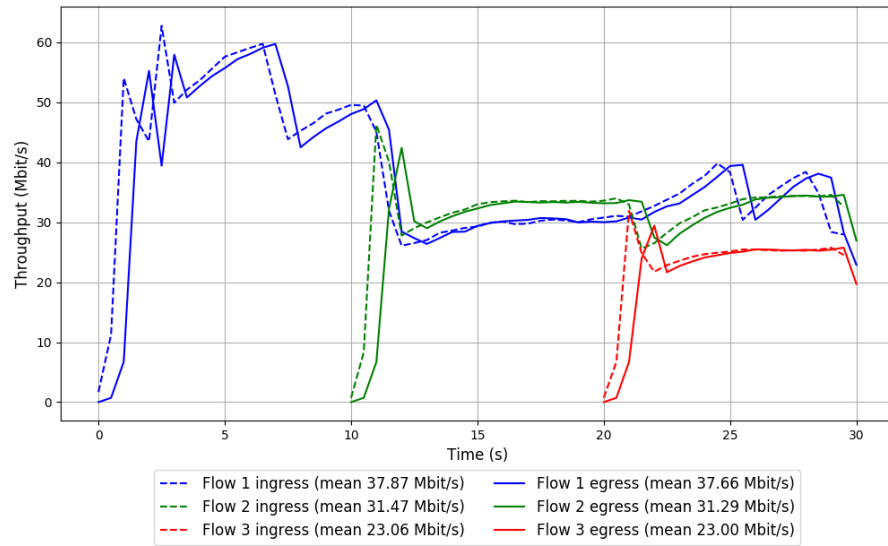


Run 3: Statistics of TCP Cubic

Start at: 2018-07-04 11:40:44  
End at: 2018-07-04 11:41:14  
Local clock offset: -7.913 ms  
Remote clock offset: 11.605 ms

# Below is generated by plot.py at 2018-07-04 14:30:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.00 Mbit/s  
95th percentile per-packet one-way delay: 93.667 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 37.66 Mbit/s  
95th percentile per-packet one-way delay: 93.394 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 31.29 Mbit/s  
95th percentile per-packet one-way delay: 91.904 ms  
Loss rate: 1.40%  
-- Flow 3:  
Average throughput: 23.00 Mbit/s  
95th percentile per-packet one-way delay: 109.216 ms  
Loss rate: 1.91%

### Run 3: Report of TCP Cubic — Data Link



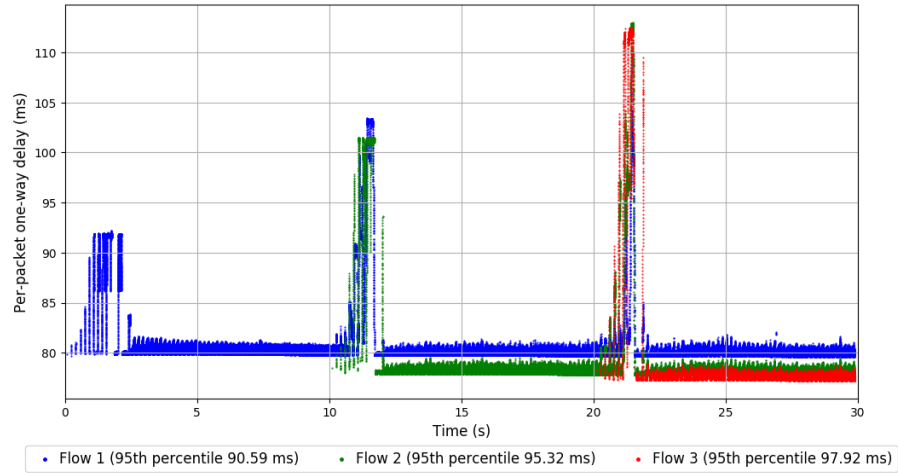
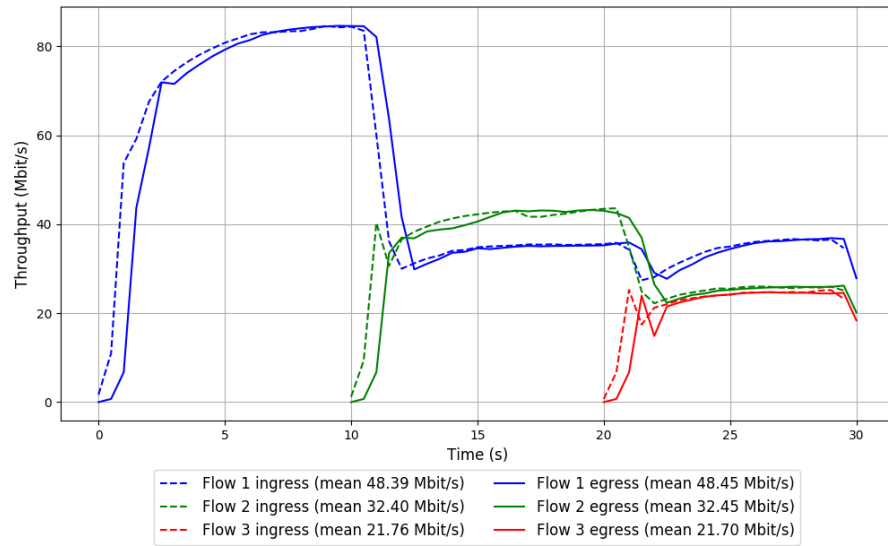
Run 4: Statistics of TCP Cubic

Start at: 2018-07-04 12:02:05  
End at: 2018-07-04 12:02:35  
Local clock offset: -1.634 ms  
Remote clock offset: 10.855 ms

# Below is generated by plot.py at 2018-07-04 14:30:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.13 Mbit/s  
95th percentile per-packet one-way delay: 91.582 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 48.45 Mbit/s  
95th percentile per-packet one-way delay: 90.588 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 32.45 Mbit/s  
95th percentile per-packet one-way delay: 95.323 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 21.70 Mbit/s  
95th percentile per-packet one-way delay: 97.921 ms  
Loss rate: 1.95%



#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-04 12:23:24

End at: 2018-07-04 12:23:54

Local clock offset: -2.484 ms

Remote clock offset: 2.062 ms

# Below is generated by plot.py at 2018-07-04 14:30:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.40 Mbit/s

95th percentile per-packet one-way delay: 93.705 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 48.78 Mbit/s

95th percentile per-packet one-way delay: 93.664 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 98.568 ms

Loss rate: 0.68%

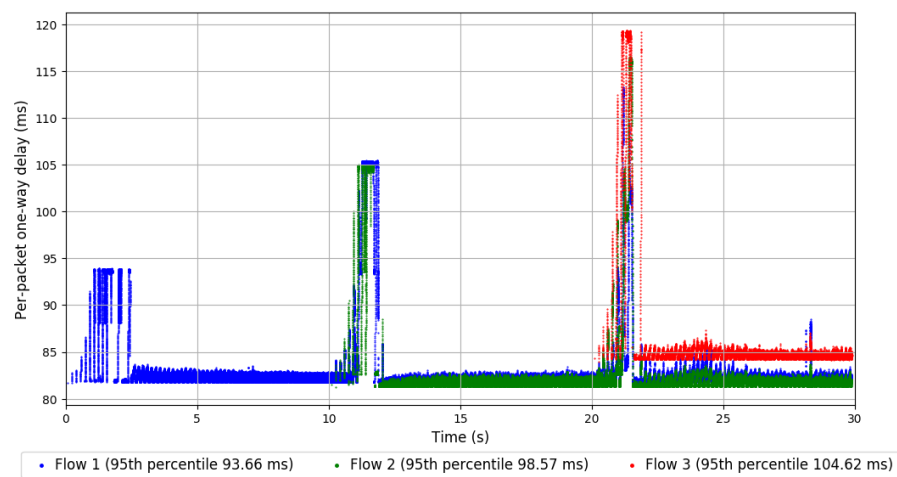
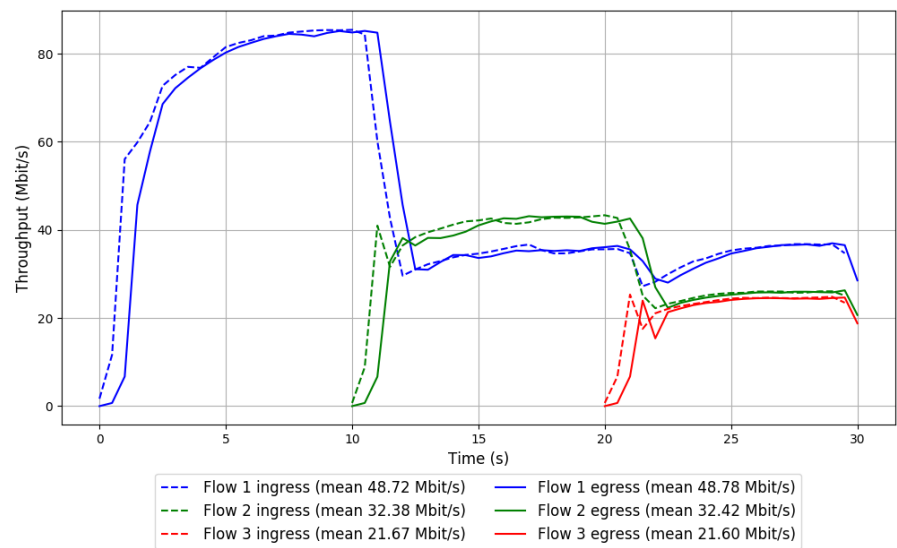
-- Flow 3:

Average throughput: 21.60 Mbit/s

95th percentile per-packet one-way delay: 104.622 ms

Loss rate: 1.95%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-04 12:44:51

End at: 2018-07-04 12:45:21

Local clock offset: -2.568 ms

Remote clock offset: 8.466 ms

# Below is generated by plot.py at 2018-07-04 14:30:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 52.42 Mbit/s

95th percentile per-packet one-way delay: 89.877 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 25.89 Mbit/s

95th percentile per-packet one-way delay: 88.073 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 90.926 ms

Loss rate: 1.48%

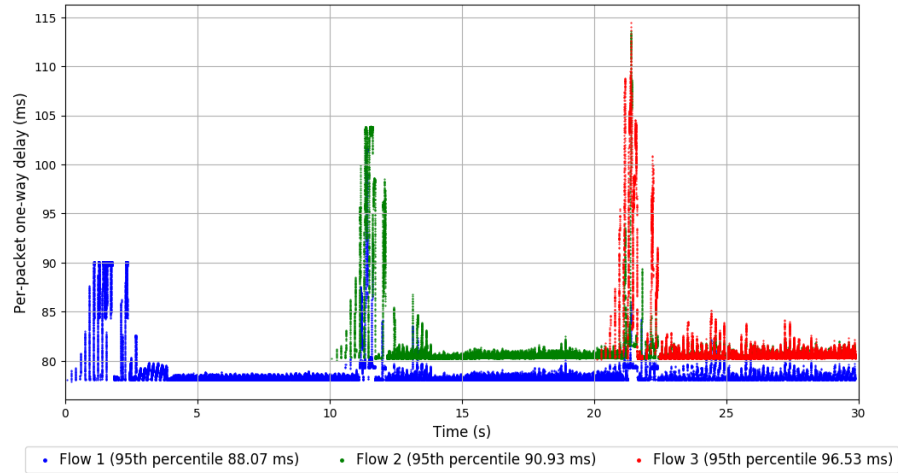
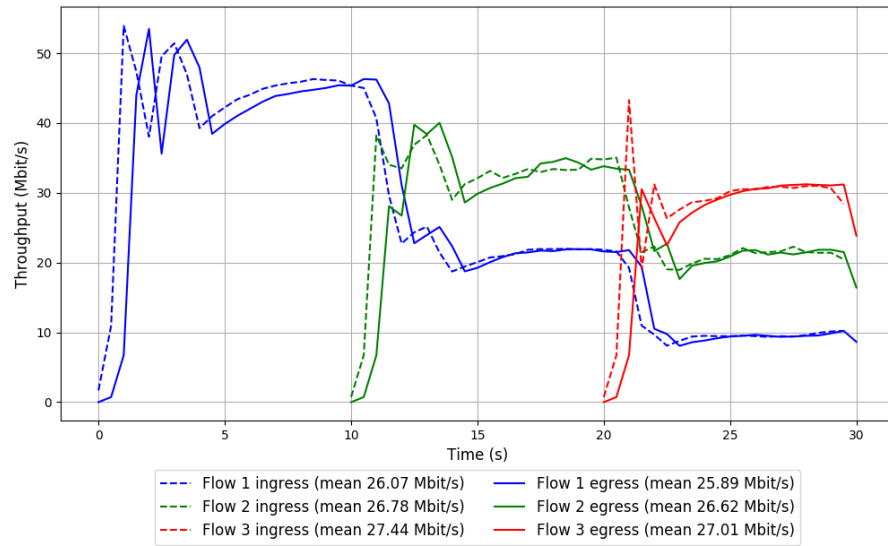
-- Flow 3:

Average throughput: 27.01 Mbit/s

95th percentile per-packet one-way delay: 96.531 ms

Loss rate: 3.20%

## Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-04 13:06:16

End at: 2018-07-04 13:06:46

Local clock offset: -2.328 ms

Remote clock offset: 8.511 ms

# Below is generated by plot.py at 2018-07-04 14:30:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 85.467 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 87.501 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 83.211 ms

Loss rate: 1.04%

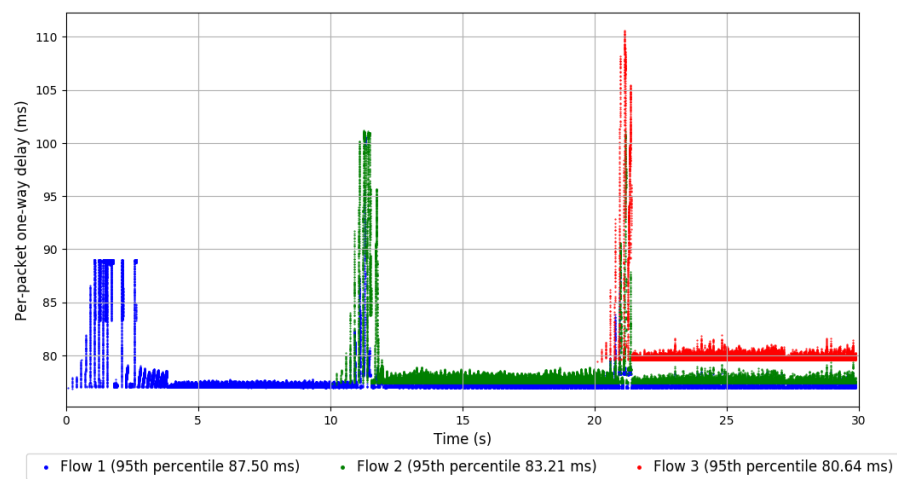
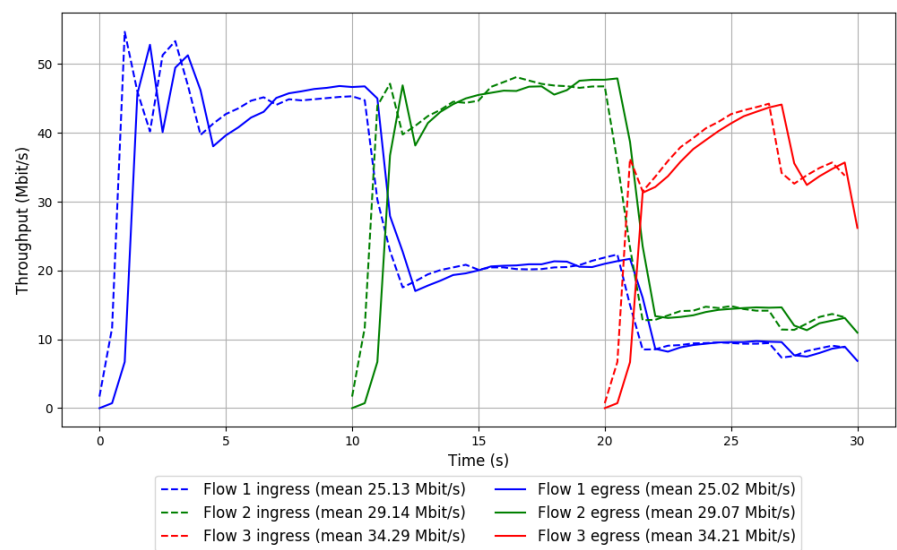
-- Flow 3:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 80.637 ms

Loss rate: 1.90%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-04 13:27:32

End at: 2018-07-04 13:28:02

Local clock offset: -6.791 ms

Remote clock offset: 8.519 ms

# Below is generated by plot.py at 2018-07-04 14:30:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 87.712 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 26.24 Mbit/s

95th percentile per-packet one-way delay: 90.199 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 79.489 ms

Loss rate: 1.23%

-- Flow 3:

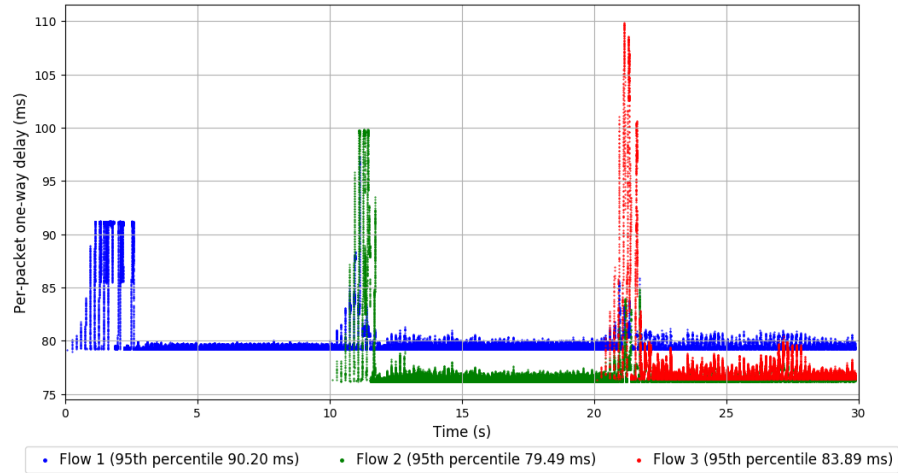
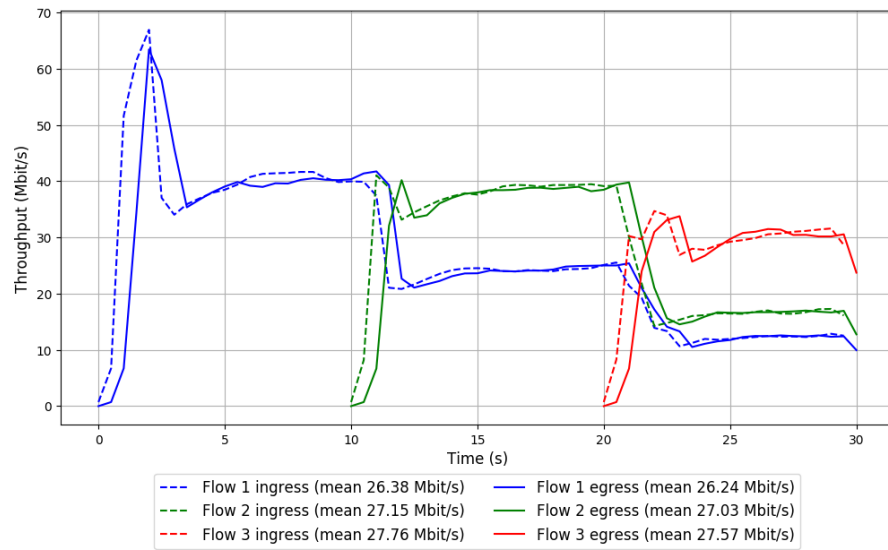
Average throughput: 27.57 Mbit/s

95th percentile per-packet one-way delay: 83.894 ms

Loss rate: 2.29%



# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-04 13:49:16

End at: 2018-07-04 13:49:46

Local clock offset: -4.267 ms

Remote clock offset: 9.25 ms

# Below is generated by plot.py at 2018-07-04 14:31:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 93.712 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 50.09 Mbit/s

95th percentile per-packet one-way delay: 93.667 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 93.767 ms

Loss rate: 0.69%

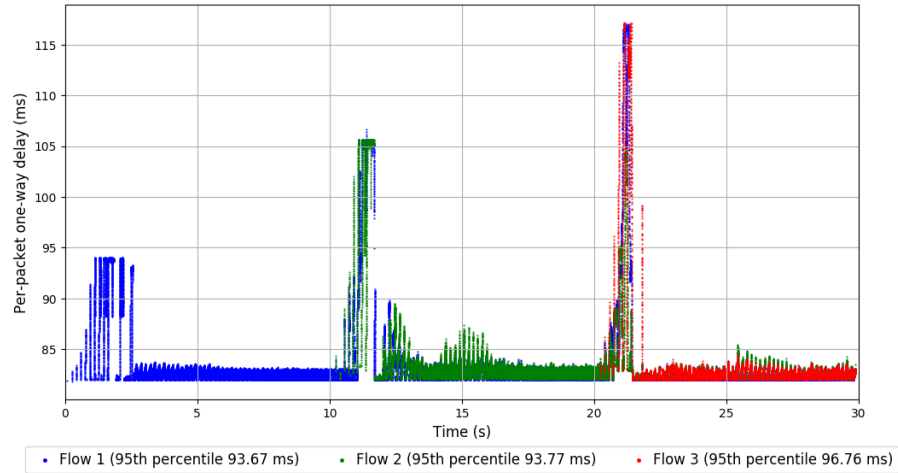
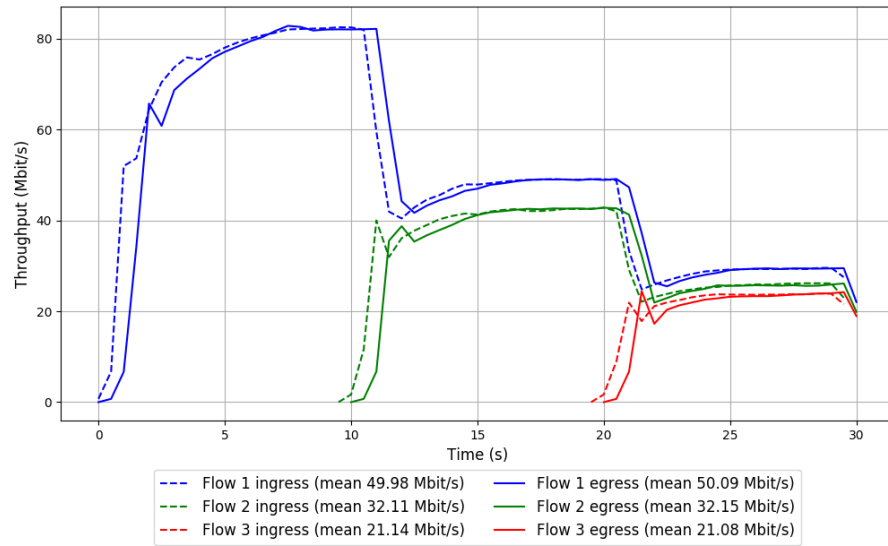
-- Flow 3:

Average throughput: 21.08 Mbit/s

95th percentile per-packet one-way delay: 96.761 ms

Loss rate: 1.93%

# Run 9: Report of TCP Cubic — Data Link

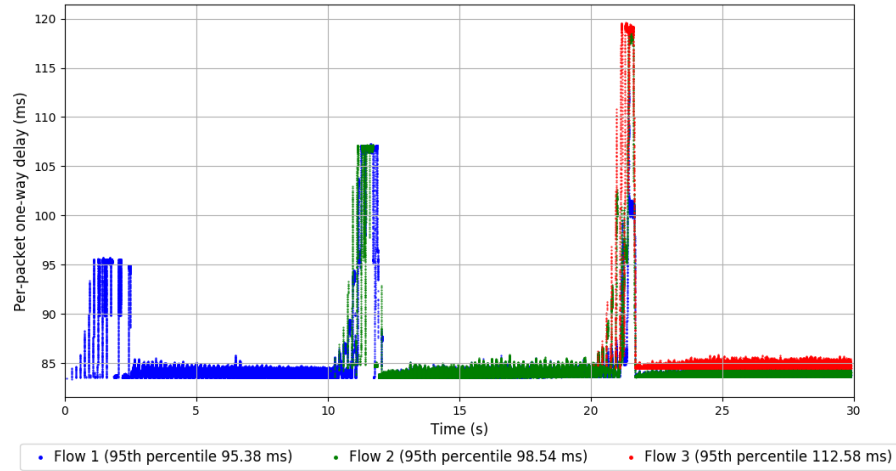
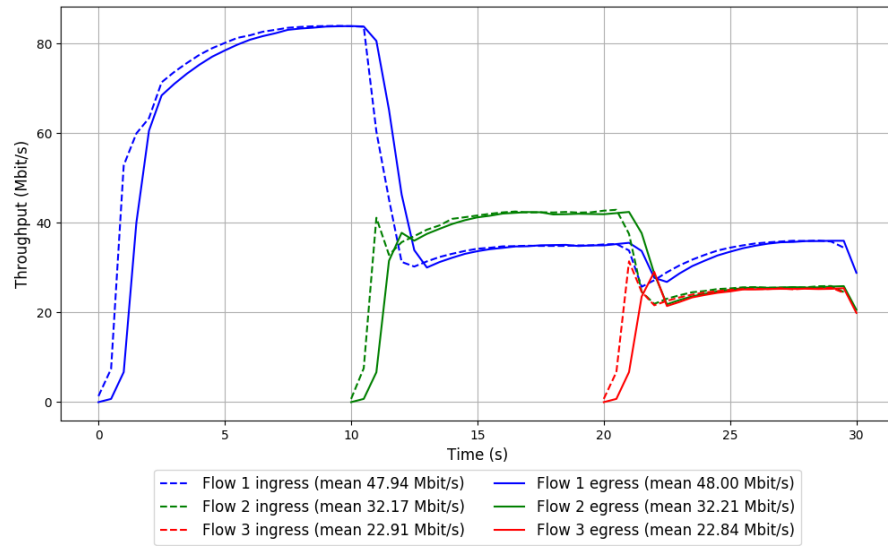


Run 10: Statistics of TCP Cubic

Start at: 2018-07-04 14:10:35  
End at: 2018-07-04 14:11:05  
Local clock offset: -2.127 ms  
Remote clock offset: 12.458 ms

# Below is generated by plot.py at 2018-07-04 14:31:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.91 Mbit/s  
95th percentile per-packet one-way delay: 95.448 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 48.00 Mbit/s  
95th percentile per-packet one-way delay: 95.379 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 32.21 Mbit/s  
95th percentile per-packet one-way delay: 98.538 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 22.84 Mbit/s  
95th percentile per-packet one-way delay: 112.577 ms  
Loss rate: 1.92%

# Run 10: Report of TCP Cubic — Data Link

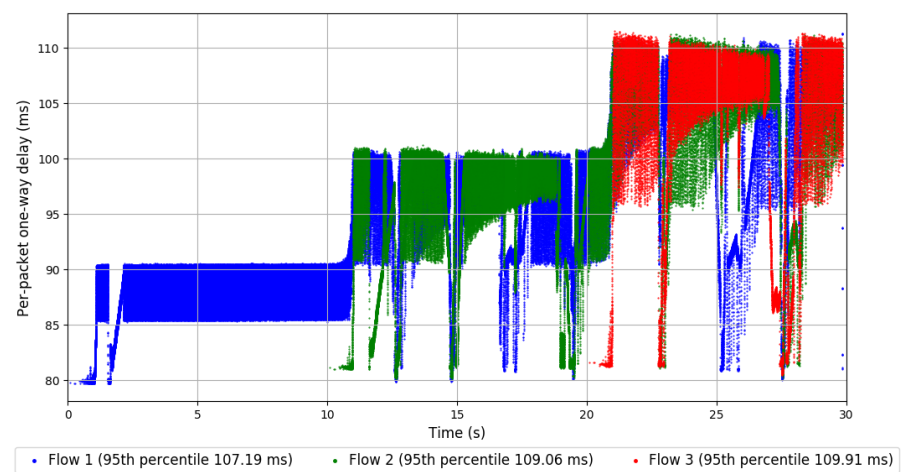
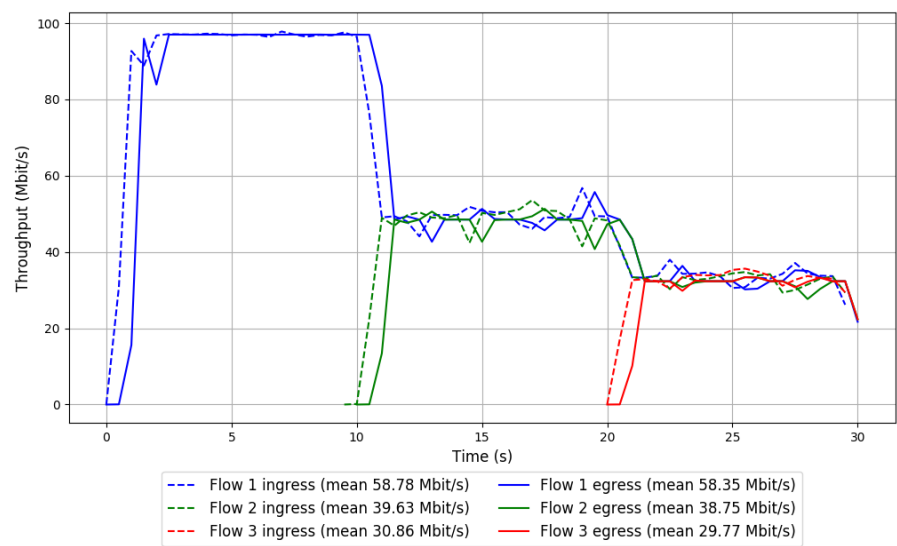


Run 1: Statistics of FillP

Start at: 2018-07-04 10:50:32  
End at: 2018-07-04 10:51:02  
Local clock offset: -2.431 ms  
Remote clock offset: 10.755 ms

# Below is generated by plot.py at 2018-07-04 14:31:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.84 Mbit/s  
95th percentile per-packet one-way delay: 108.646 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 58.35 Mbit/s  
95th percentile per-packet one-way delay: 107.190 ms  
Loss rate: 1.31%  
-- Flow 2:  
Average throughput: 38.75 Mbit/s  
95th percentile per-packet one-way delay: 109.057 ms  
Loss rate: 3.11%  
-- Flow 3:  
Average throughput: 29.77 Mbit/s  
95th percentile per-packet one-way delay: 109.905 ms  
Loss rate: 5.26%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-04 11:11:45

End at: 2018-07-04 11:12:15

Local clock offset: -3.472 ms

Remote clock offset: 11.55 ms

# Below is generated by plot.py at 2018-07-04 14:31:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 112.380 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 58.11 Mbit/s

95th percentile per-packet one-way delay: 110.645 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 113.494 ms

Loss rate: 3.58%

-- Flow 3:

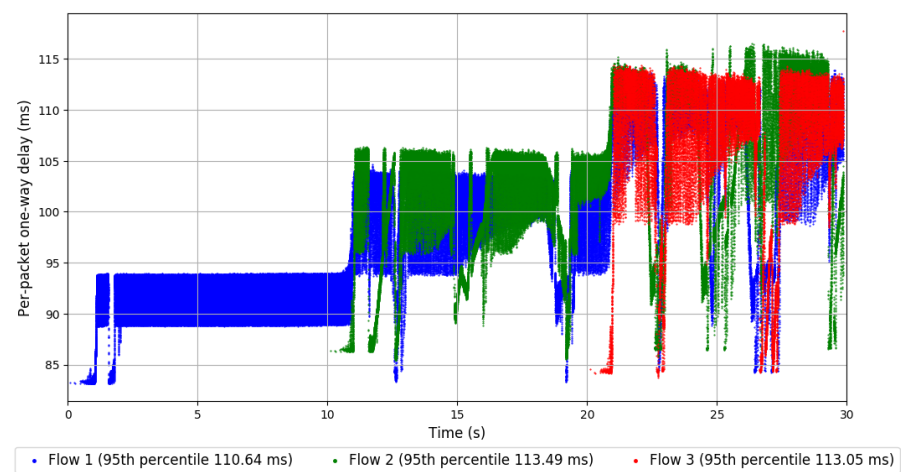
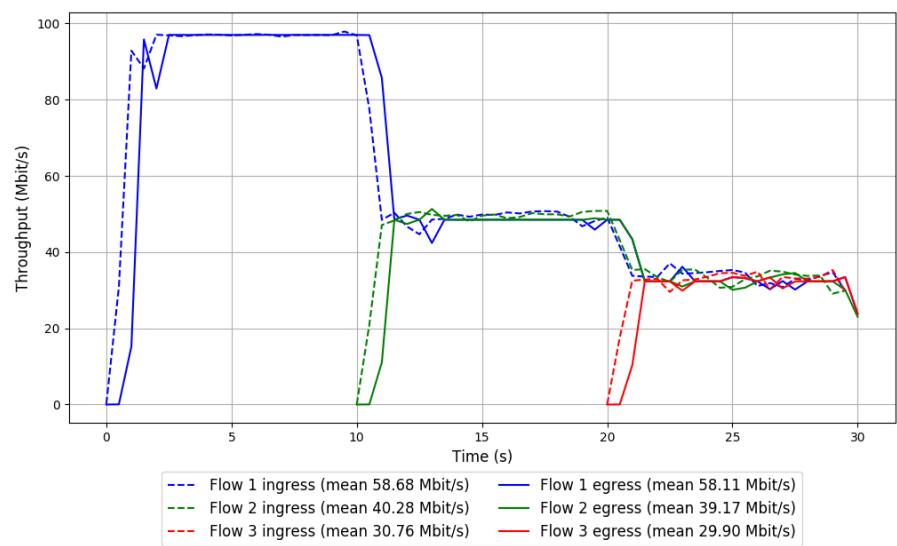
Average throughput: 29.90 Mbit/s

95th percentile per-packet one-way delay: 113.049 ms

Loss rate: 4.44%



Run 2: Report of FillP — Data Link

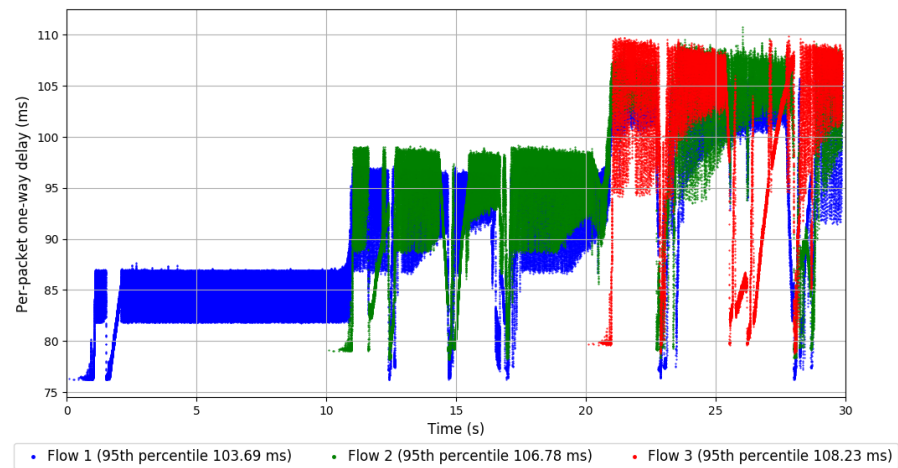
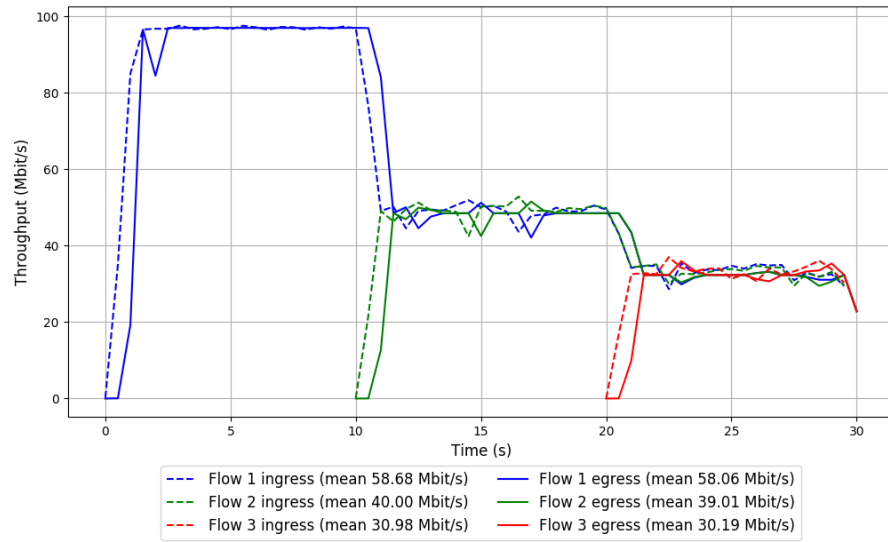


Run 3: Statistics of FillP

Start at: 2018-07-04 11:32:58  
End at: 2018-07-04 11:33:28  
Local clock offset: -7.667 ms  
Remote clock offset: 16.752 ms

# Below is generated by plot.py at 2018-07-04 14:32:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.84 Mbit/s  
95th percentile per-packet one-way delay: 106.243 ms  
Loss rate: 2.40%  
-- Flow 1:  
Average throughput: 58.06 Mbit/s  
95th percentile per-packet one-way delay: 103.695 ms  
Loss rate: 1.63%  
-- Flow 2:  
Average throughput: 39.01 Mbit/s  
95th percentile per-packet one-way delay: 106.781 ms  
Loss rate: 3.32%  
-- Flow 3:  
Average throughput: 30.19 Mbit/s  
95th percentile per-packet one-way delay: 108.232 ms  
Loss rate: 4.36%

### Run 3: Report of FillP — Data Link

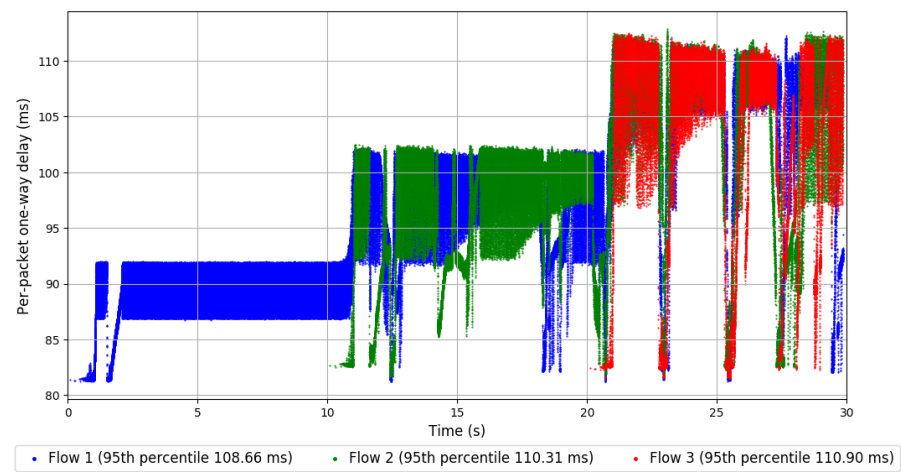
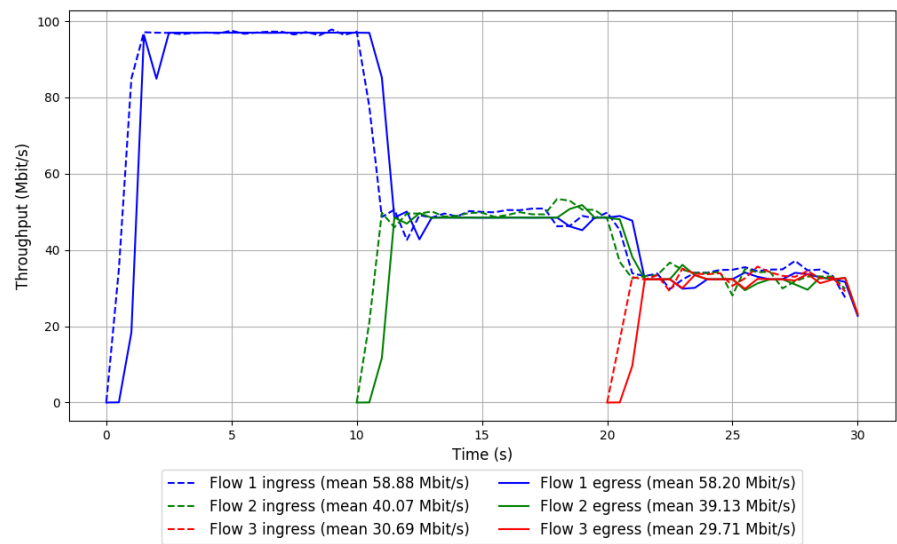


Run 4: Statistics of FillP

Start at: 2018-07-04 11:54:26  
End at: 2018-07-04 11:54:56  
Local clock offset: -2.572 ms  
Remote clock offset: 12.282 ms

# Below is generated by plot.py at 2018-07-04 14:32:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.88 Mbit/s  
95th percentile per-packet one-way delay: 109.732 ms  
Loss rate: 2.47%  
-- Flow 1:  
Average throughput: 58.20 Mbit/s  
95th percentile per-packet one-way delay: 108.655 ms  
Loss rate: 1.71%  
-- Flow 2:  
Average throughput: 39.13 Mbit/s  
95th percentile per-packet one-way delay: 110.311 ms  
Loss rate: 3.22%  
-- Flow 3:  
Average throughput: 29.71 Mbit/s  
95th percentile per-packet one-way delay: 110.901 ms  
Loss rate: 4.89%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-04 12:15:45

End at: 2018-07-04 12:16:15

Local clock offset: -1.941 ms

Remote clock offset: 5.974 ms

# Below is generated by plot.py at 2018-07-04 14:32:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.93 Mbit/s

95th percentile per-packet one-way delay: 107.675 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 105.630 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 39.01 Mbit/s

95th percentile per-packet one-way delay: 109.153 ms

Loss rate: 3.27%

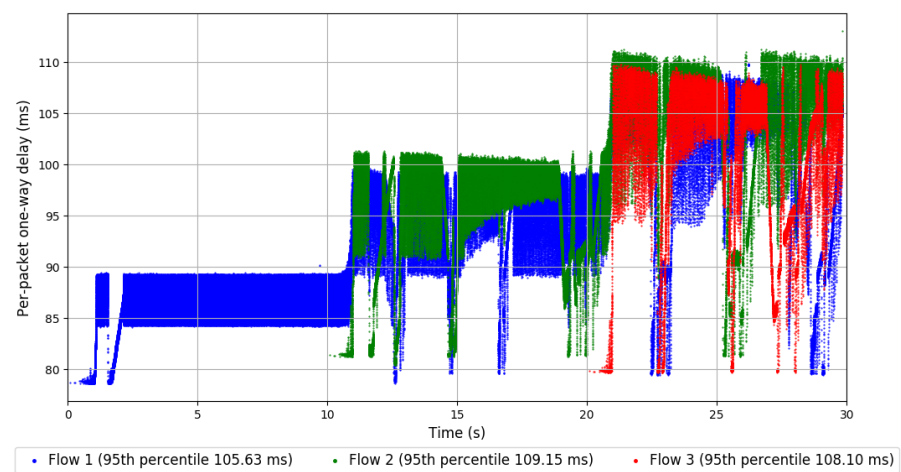
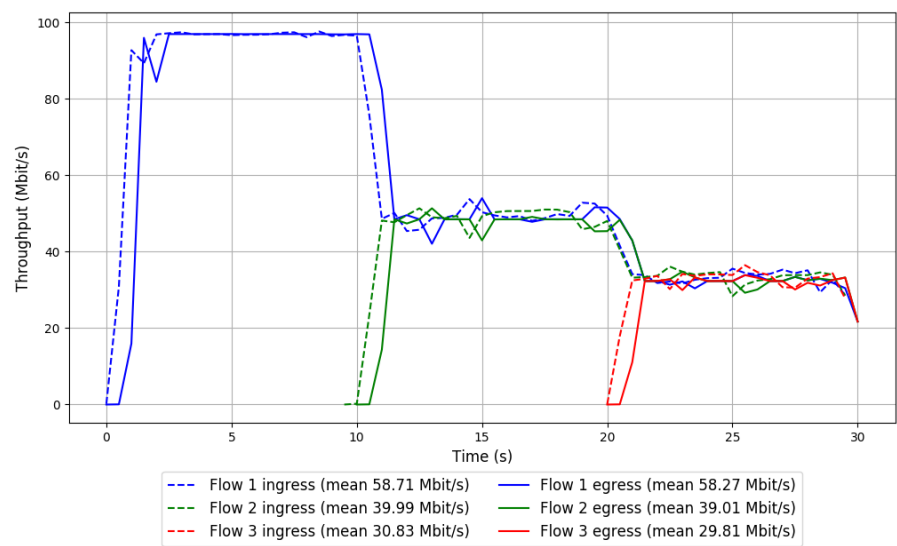
-- Flow 3:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 108.100 ms

Loss rate: 5.03%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-04 12:37:15

End at: 2018-07-04 12:37:45

Local clock offset: -2.655 ms

Remote clock offset: 7.647 ms

# Below is generated by plot.py at 2018-07-04 14:32:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 107.171 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 58.07 Mbit/s

95th percentile per-packet one-way delay: 105.603 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 106.408 ms

Loss rate: 3.09%

-- Flow 3:

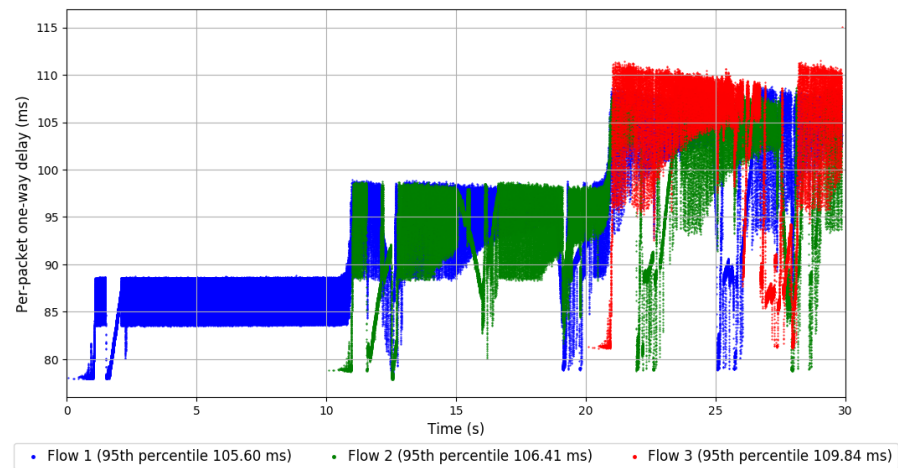
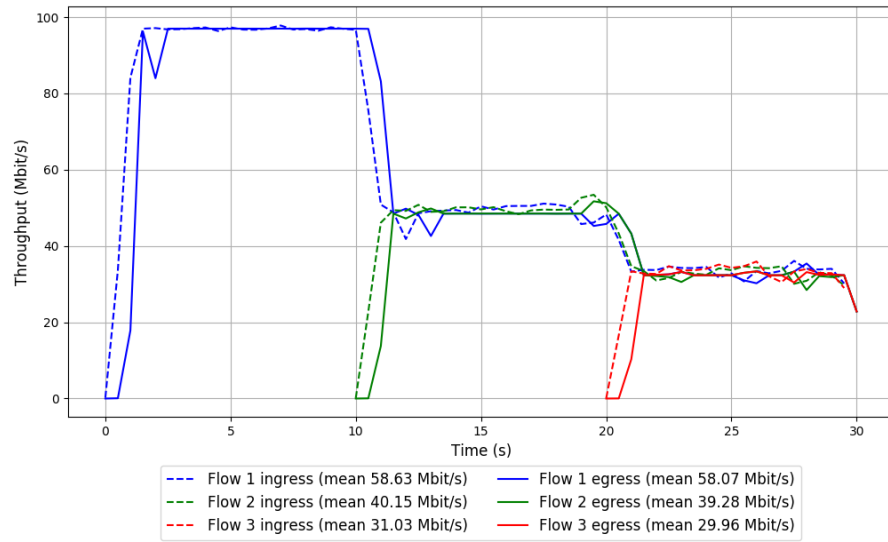
Average throughput: 29.96 Mbit/s

95th percentile per-packet one-way delay: 109.845 ms

Loss rate: 5.08%



# Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-04 12:58:31

End at: 2018-07-04 12:59:01

Local clock offset: -2.4 ms

Remote clock offset: 3.676 ms

# Below is generated by plot.py at 2018-07-04 14:32:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.50 Mbit/s

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

Loss rate: 4.73%

-- Flow 1:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 108.051 ms

Loss rate: 2.33%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 111.575 ms

Loss rate: 6.86%

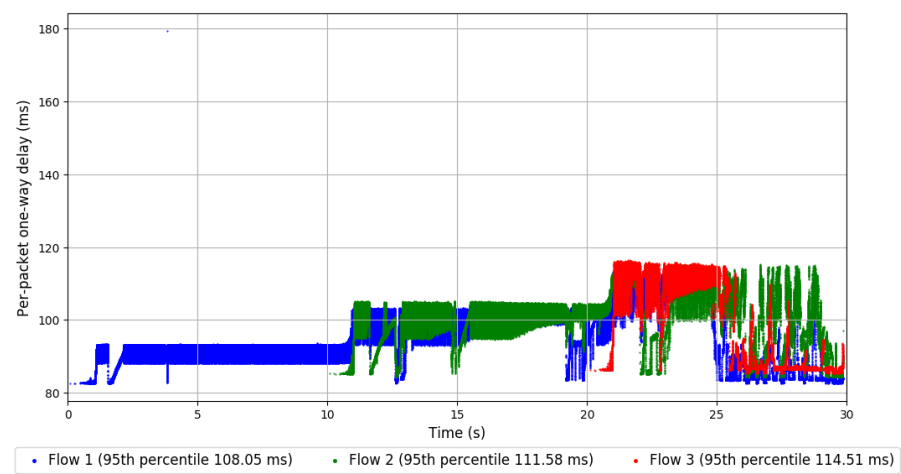
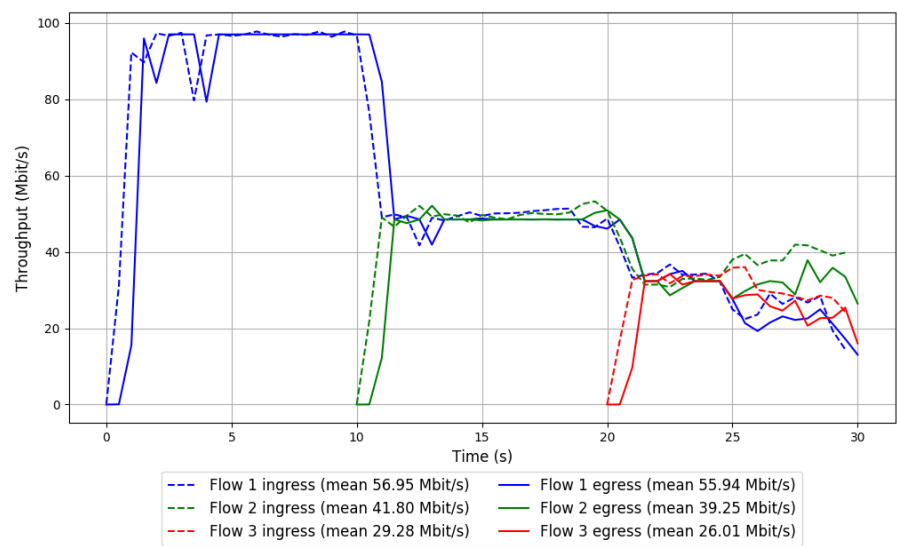
-- Flow 3:

Average throughput: 26.01 Mbit/s

95th percentile per-packet one-way delay: 114.510 ms

Loss rate: 12.72%

Run 7: Report of FillP — Data Link

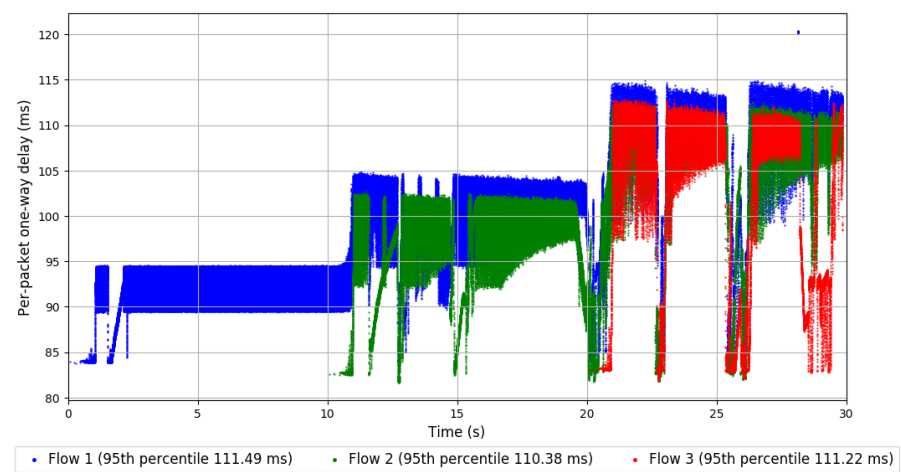
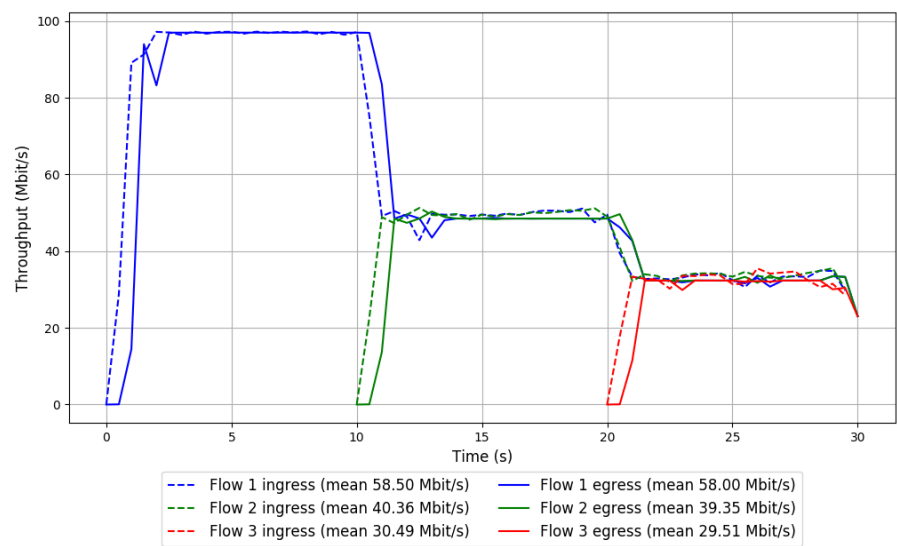


Run 8: Statistics of FillP

Start at: 2018-07-04 13:19:55  
End at: 2018-07-04 13:20:25  
Local clock offset: -5.626 ms  
Remote clock offset: 3.801 ms

# Below is generated by plot.py at 2018-07-04 14:32:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.82 Mbit/s  
95th percentile per-packet one-way delay: 110.990 ms  
Loss rate: 2.34%  
-- Flow 1:  
Average throughput: 58.00 Mbit/s  
95th percentile per-packet one-way delay: 111.488 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 39.35 Mbit/s  
95th percentile per-packet one-way delay: 110.379 ms  
Loss rate: 3.35%  
-- Flow 3:  
Average throughput: 29.51 Mbit/s  
95th percentile per-packet one-way delay: 111.219 ms  
Loss rate: 4.87%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-04 13:41:21

End at: 2018-07-04 13:41:51

Local clock offset: -7.237 ms

Remote clock offset: 5.995 ms

# Below is generated by plot.py at 2018-07-04 14:33:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.51 Mbit/s

95th percentile per-packet one-way delay: 105.360 ms

Loss rate: 15.08%

-- Flow 1:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 104.716 ms

Loss rate: 14.35%

-- Flow 2:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 104.713 ms

Loss rate: 15.94%

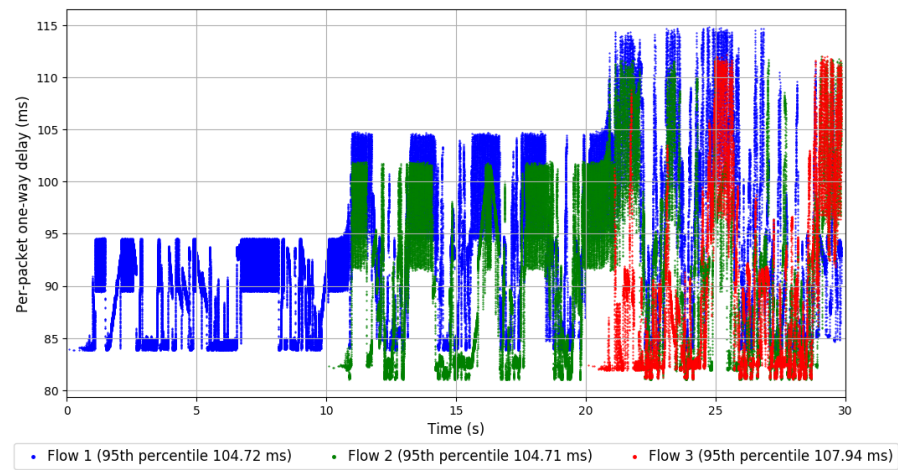
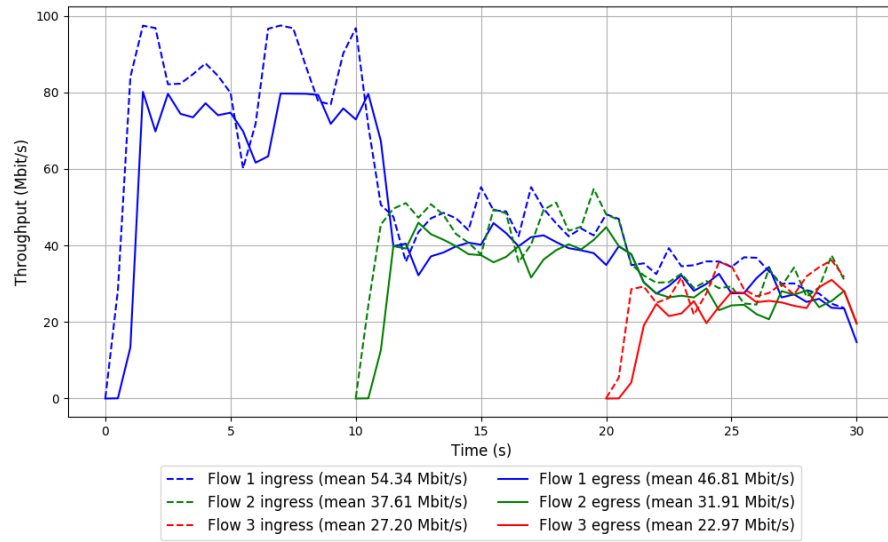
-- Flow 3:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 107.936 ms

Loss rate: 17.08%

## Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-04 14:02:58

End at: 2018-07-04 14:03:28

Local clock offset: -2.465 ms

Remote clock offset: 11.77 ms

# Below is generated by plot.py at 2018-07-04 14:33:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 110.537 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 57.94 Mbit/s

95th percentile per-packet one-way delay: 108.896 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 109.830 ms

Loss rate: 3.81%

-- Flow 3:

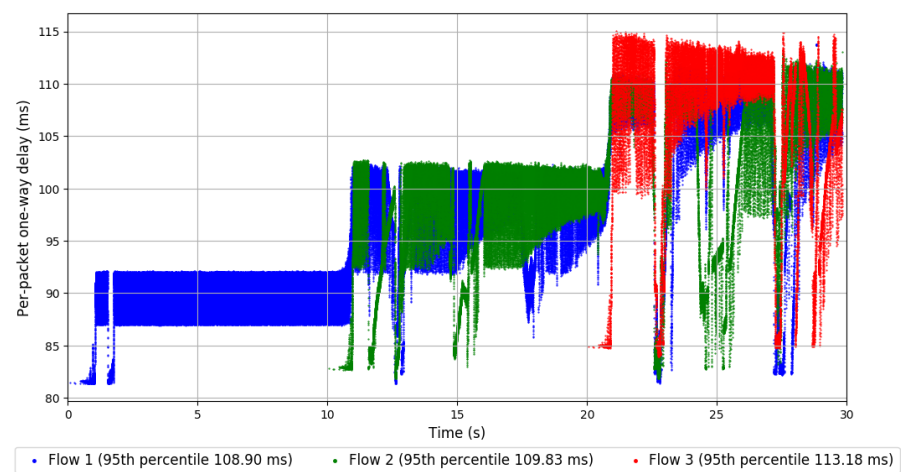
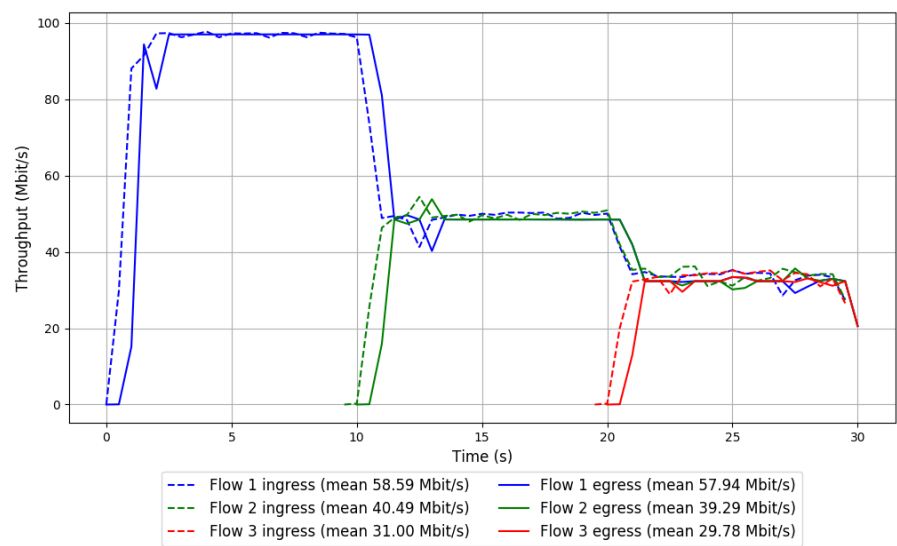
Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 113.183 ms

Loss rate: 5.50%



Run 10: Report of FillP — Data Link

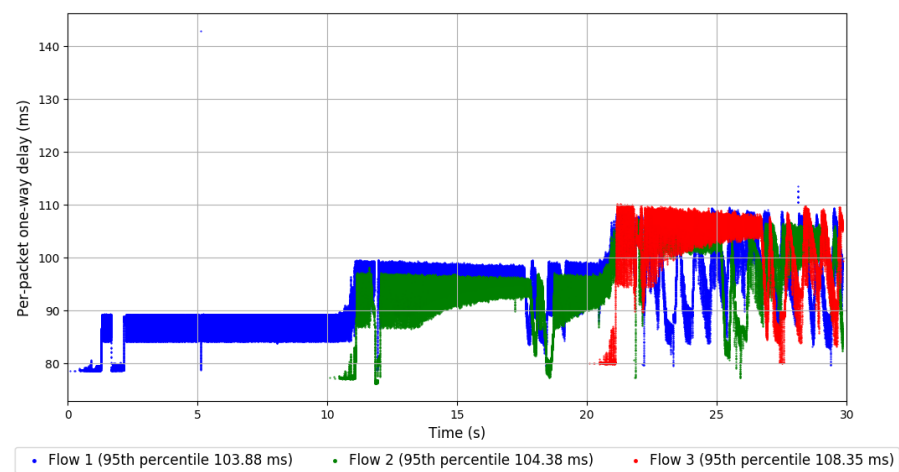
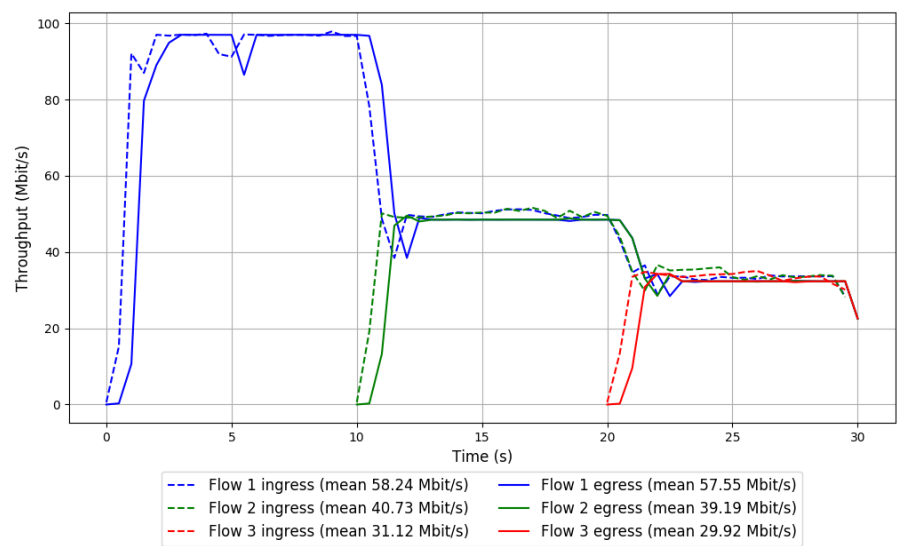


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-04 11:06:42  
End at: 2018-07-04 11:07:12  
Local clock offset: -2.665 ms  
Remote clock offset: 16.823 ms

# Below is generated by plot.py at 2018-07-04 14:33:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.36 Mbit/s  
95th percentile per-packet one-way delay: 106.050 ms  
Loss rate: 2.95%  
-- Flow 1:  
Average throughput: 57.55 Mbit/s  
95th percentile per-packet one-way delay: 103.879 ms  
Loss rate: 1.74%  
-- Flow 2:  
Average throughput: 39.19 Mbit/s  
95th percentile per-packet one-way delay: 104.381 ms  
Loss rate: 4.58%  
-- Flow 3:  
Average throughput: 29.92 Mbit/s  
95th percentile per-packet one-way delay: 108.348 ms  
Loss rate: 5.50%

Run 1: Report of FillP-Sheep — Data Link

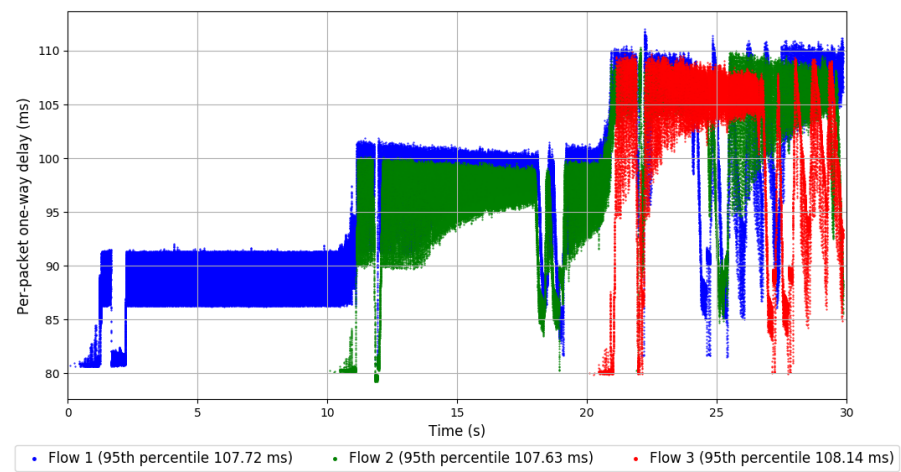
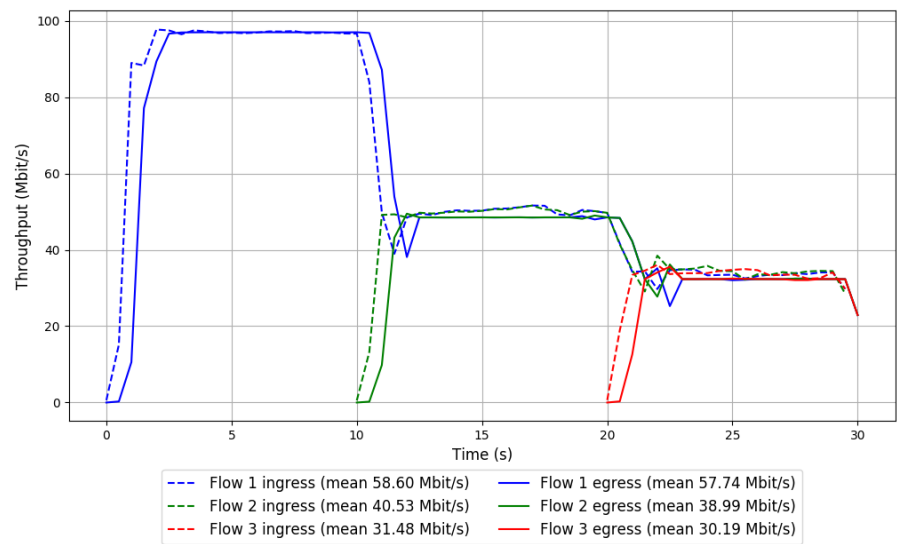


Run 2: Statistics of FillP-Sheep

Start at: 2018-07-04 11:27:54  
End at: 2018-07-04 11:28:24  
Local clock offset: -7.161 ms  
Remote clock offset: 15.002 ms

# Below is generated by plot.py at 2018-07-04 14:33:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.53 Mbit/s  
95th percentile per-packet one-way delay: 107.782 ms  
Loss rate: 3.16%  
-- Flow 1:  
Average throughput: 57.74 Mbit/s  
95th percentile per-packet one-way delay: 107.716 ms  
Loss rate: 2.01%  
-- Flow 2:  
Average throughput: 38.99 Mbit/s  
95th percentile per-packet one-way delay: 107.632 ms  
Loss rate: 4.62%  
-- Flow 3:  
Average throughput: 30.19 Mbit/s  
95th percentile per-packet one-way delay: 108.136 ms  
Loss rate: 5.86%

Run 2: Report of FillP-Sheep — Data Link

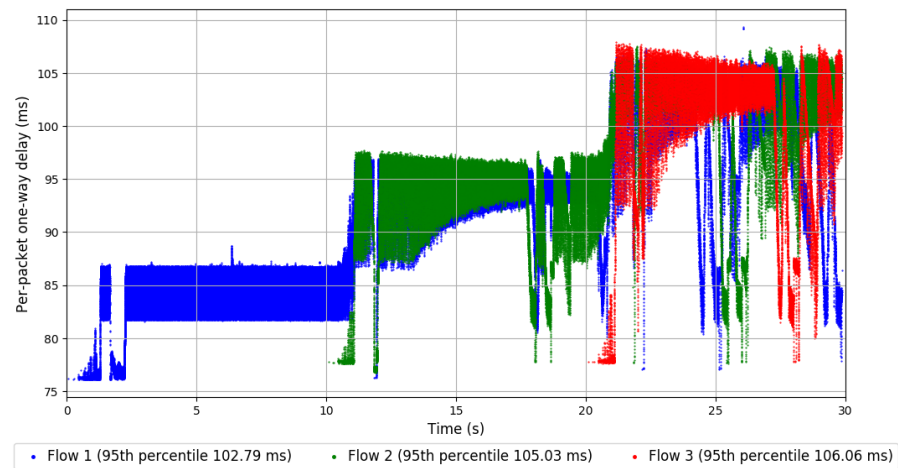
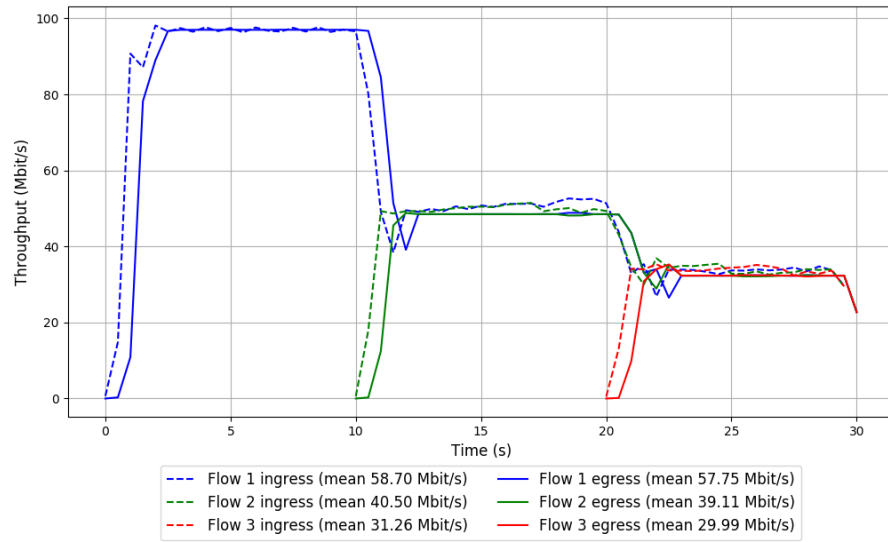


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-04 11:49:20  
End at: 2018-07-04 11:49:50  
Local clock offset: -3.774 ms  
Remote clock offset: 16.944 ms

# Below is generated by plot.py at 2018-07-04 14:33:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.54 Mbit/s  
95th percentile per-packet one-way delay: 104.730 ms  
Loss rate: 3.13%  
-- Flow 1:  
Average throughput: 57.75 Mbit/s  
95th percentile per-packet one-way delay: 102.792 ms  
Loss rate: 2.17%  
-- Flow 2:  
Average throughput: 39.11 Mbit/s  
95th percentile per-packet one-way delay: 105.034 ms  
Loss rate: 4.22%  
-- Flow 3:  
Average throughput: 29.99 Mbit/s  
95th percentile per-packet one-way delay: 106.060 ms  
Loss rate: 5.70%

### Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-04 12:10:41

End at: 2018-07-04 12:11:11

Local clock offset: -1.155 ms

Remote clock offset: 6.675 ms

# Below is generated by plot.py at 2018-07-04 14:33:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 106.902 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 57.81 Mbit/s

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

Loss rate: 1.70%

-- Flow 2:

Average throughput: 39.11 Mbit/s

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

Loss rate: 4.40%

-- Flow 3:

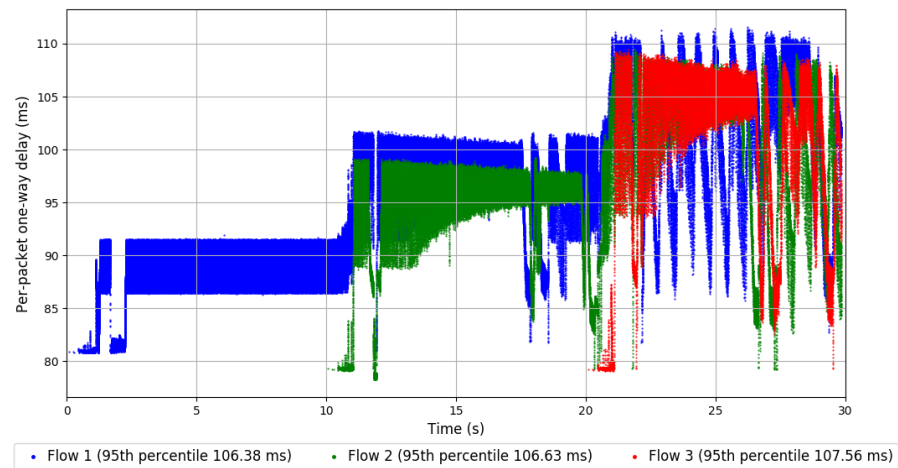
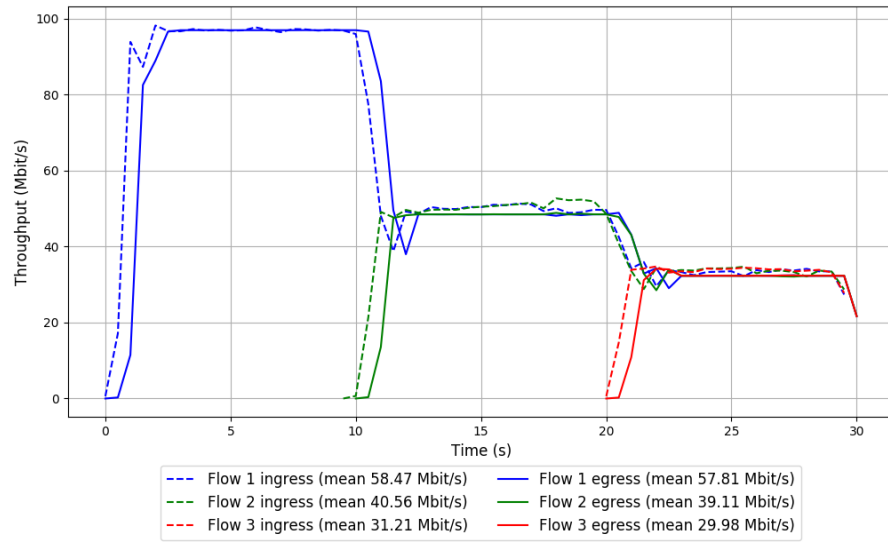
Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 107.555 ms

Loss rate: 5.58%



# Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-04 12:32:10

End at: 2018-07-04 12:32:40

Local clock offset: -2.632 ms

Remote clock offset: 6.444 ms

# Below is generated by plot.py at 2018-07-04 14:33:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.48 Mbit/s

95th percentile per-packet one-way delay: 107.956 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 57.75 Mbit/s

95th percentile per-packet one-way delay: 107.786 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 39.12 Mbit/s

95th percentile per-packet one-way delay: 106.278 ms

Loss rate: 4.50%

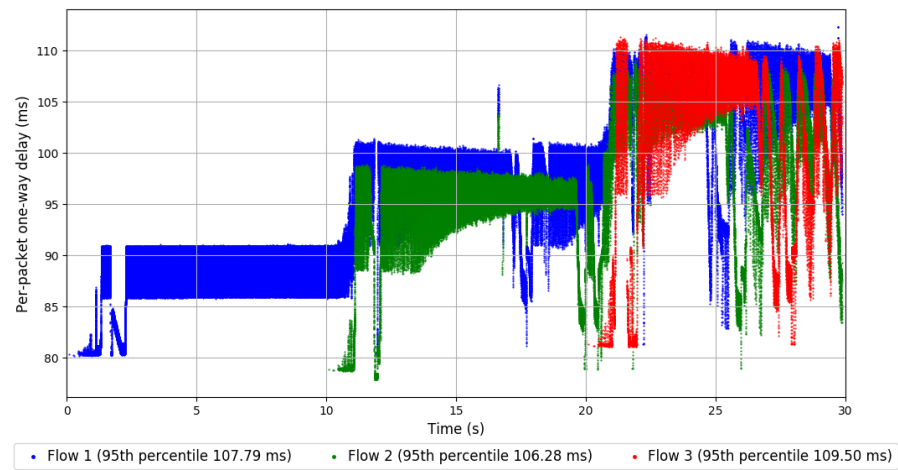
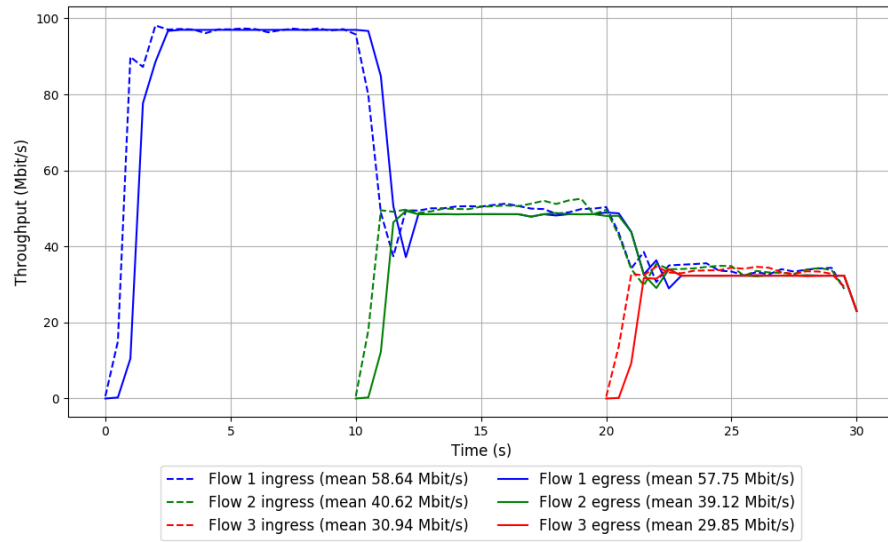
-- Flow 3:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 109.500 ms

Loss rate: 5.19%

# Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-04 12:53:26

End at: 2018-07-04 12:53:56

Local clock offset: -2.538 ms

Remote clock offset: 7.569 ms

# Below is generated by plot.py at 2018-07-04 14:34:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 107.532 ms

Loss rate: 3.22%

-- Flow 1:

Average throughput: 57.71 Mbit/s

95th percentile per-packet one-way delay: 105.771 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 108.873 ms

Loss rate: 5.41%

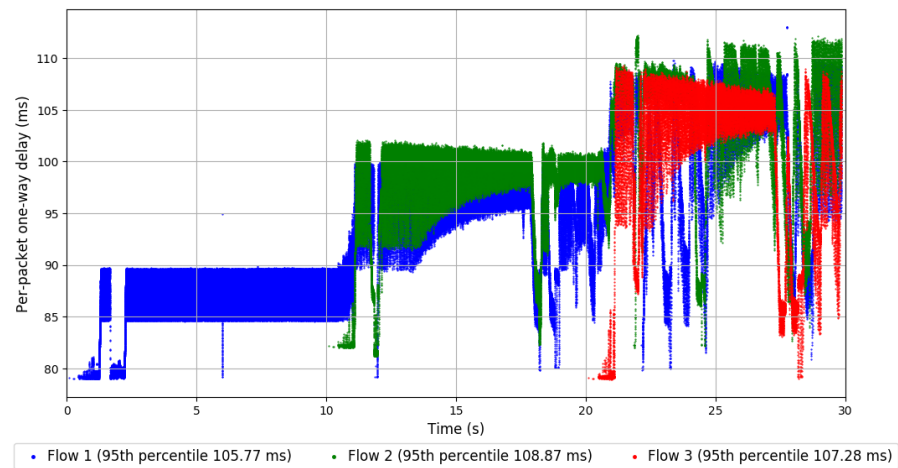
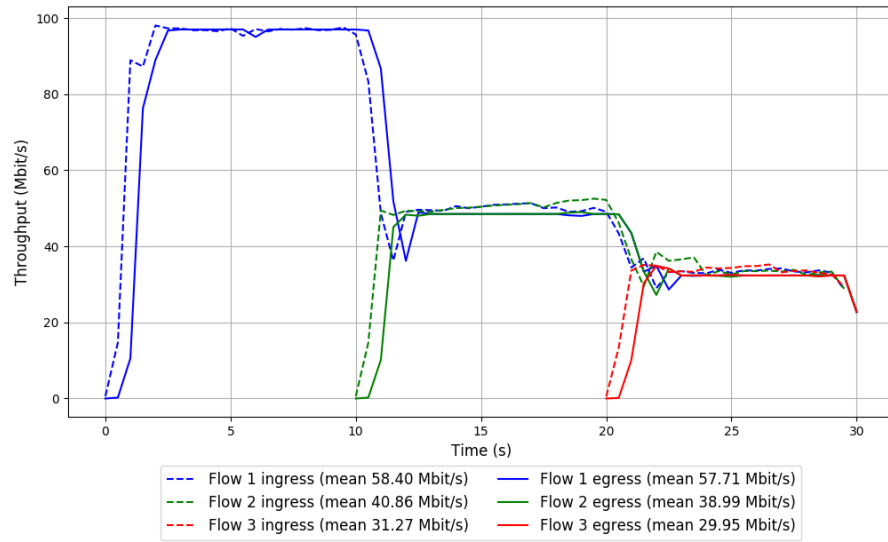
-- Flow 3:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 107.280 ms

Loss rate: 5.78%

## Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-04 13:14:50

End at: 2018-07-04 13:15:20

Local clock offset: -4.36 ms

Remote clock offset: 3.881 ms

# Below is generated by plot.py at 2018-07-04 14:34:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 111.982 ms

Loss rate: 3.04%

-- Flow 1:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 111.674 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 39.08 Mbit/s

95th percentile per-packet one-way delay: 109.693 ms

Loss rate: 4.49%

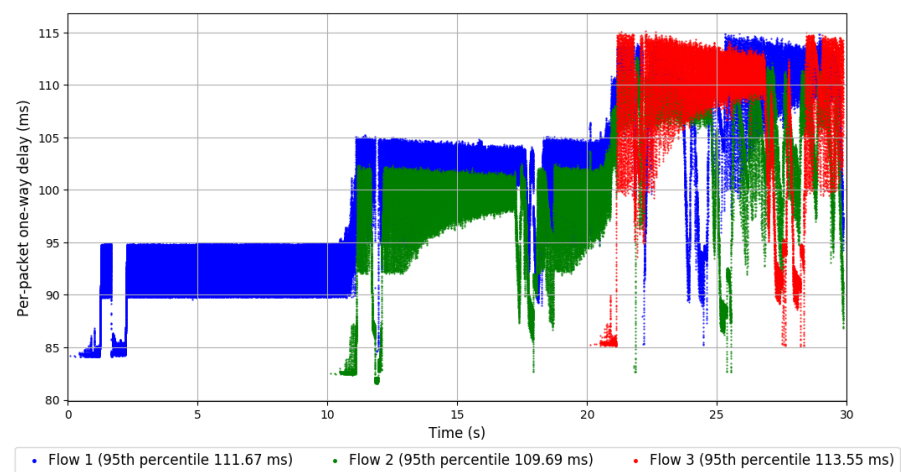
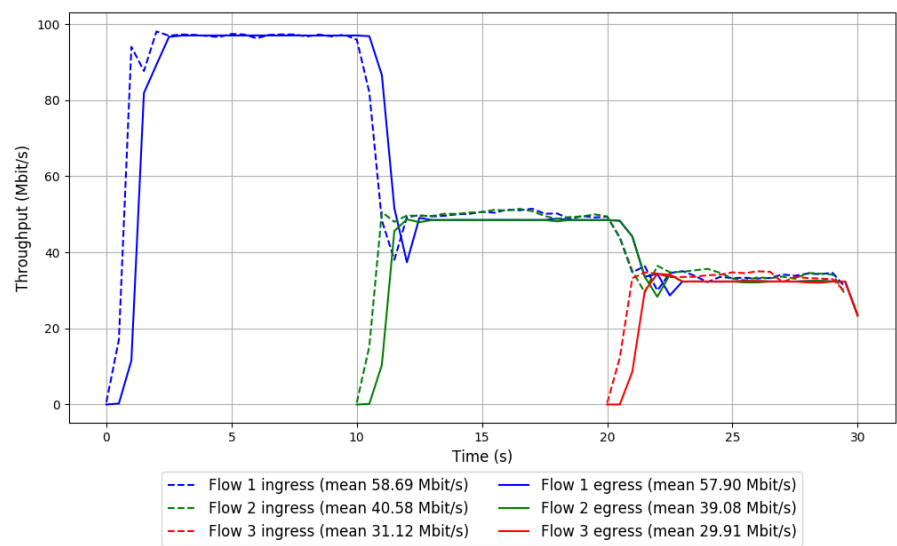
-- Flow 3:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 113.551 ms

Loss rate: 5.63%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-04 13:36:07

End at: 2018-07-04 13:36:37

Local clock offset: -7.589 ms

Remote clock offset: 2.134 ms

# Below is generated by plot.py at 2018-07-04 14:34:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.47 Mbit/s

95th percentile per-packet one-way delay: 110.928 ms

Loss rate: 3.27%

-- Flow 1:

Average throughput: 57.75 Mbit/s

95th percentile per-packet one-way delay: 111.131 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 110.648 ms

Loss rate: 4.80%

-- Flow 3:

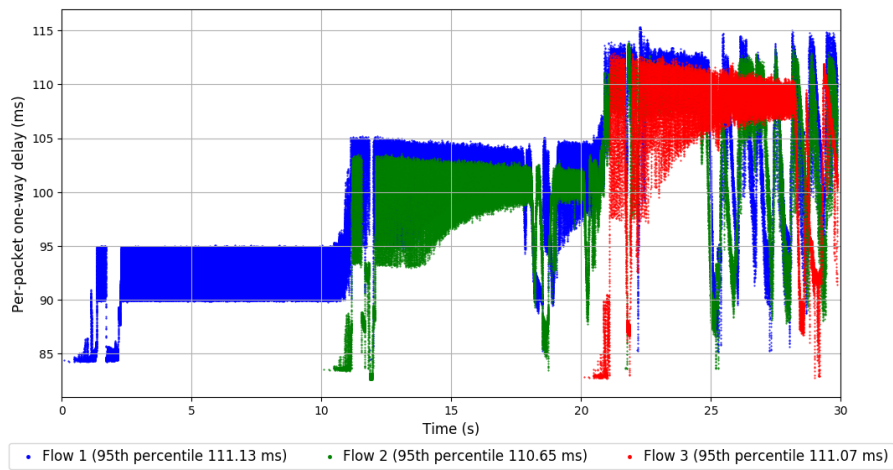
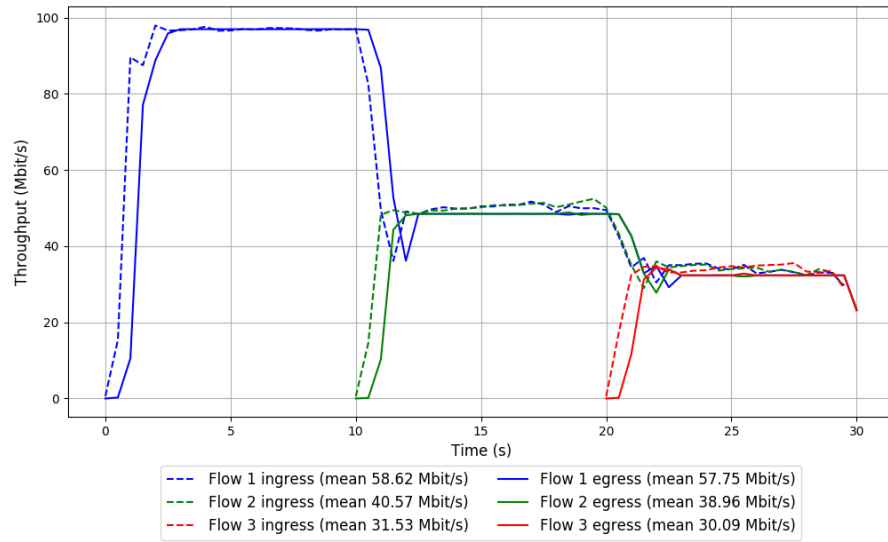
Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 111.070 ms

Loss rate: 6.20%



## Run 8: Report of FillP-Sheep — Data Link

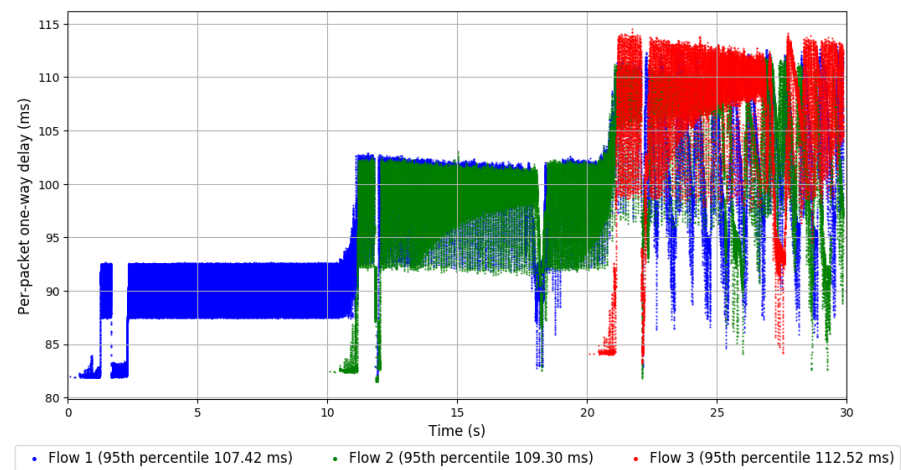
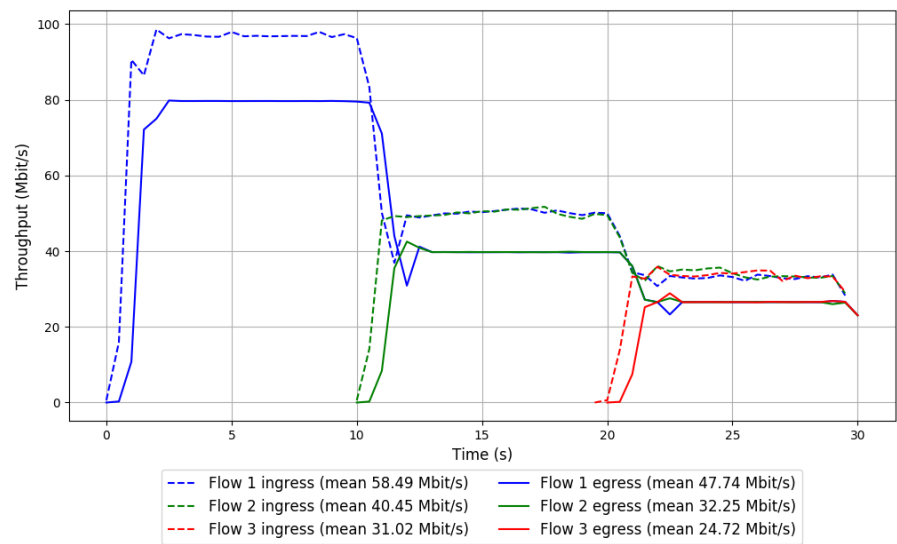


Run 9: Statistics of FillP-Sheep

Start at: 2018-07-04 13:57:52  
End at: 2018-07-04 13:58:22  
Local clock offset: -2.9 ms  
Remote clock offset: 10.995 ms

# Below is generated by plot.py at 2018-07-04 14:34:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.25 Mbit/s  
95th percentile per-packet one-way delay: 110.053 ms  
Loss rate: 19.72%  
-- Flow 1:  
Average throughput: 47.74 Mbit/s  
95th percentile per-packet one-way delay: 107.417 ms  
Loss rate: 18.81%  
-- Flow 2:  
Average throughput: 32.25 Mbit/s  
95th percentile per-packet one-way delay: 109.299 ms  
Loss rate: 20.93%  
-- Flow 3:  
Average throughput: 24.72 Mbit/s  
95th percentile per-packet one-way delay: 112.523 ms  
Loss rate: 21.73%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-04 14:19:10

End at: 2018-07-04 14:19:40

Local clock offset: -2.579 ms

Remote clock offset: 6.873 ms

# Below is generated by plot.py at 2018-07-04 14:34:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 112.341 ms

Loss rate: 2.99%

-- Flow 1:

Average throughput: 57.69 Mbit/s

95th percentile per-packet one-way delay: 110.867 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 112.182 ms

Loss rate: 4.45%

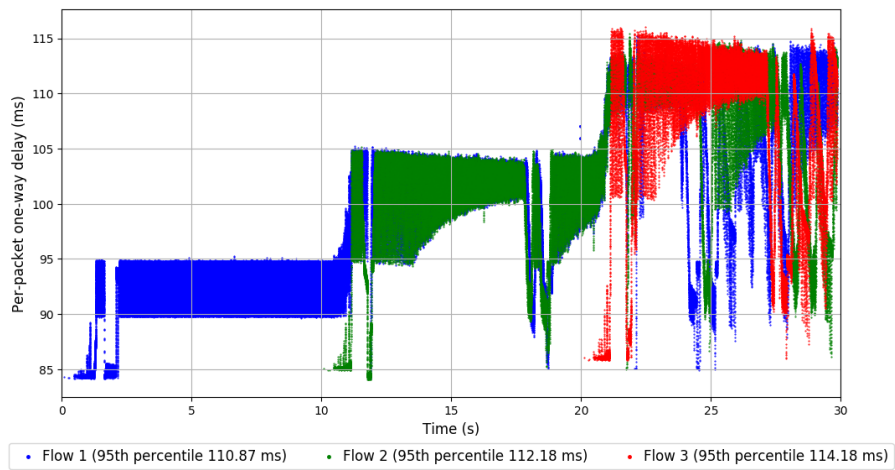
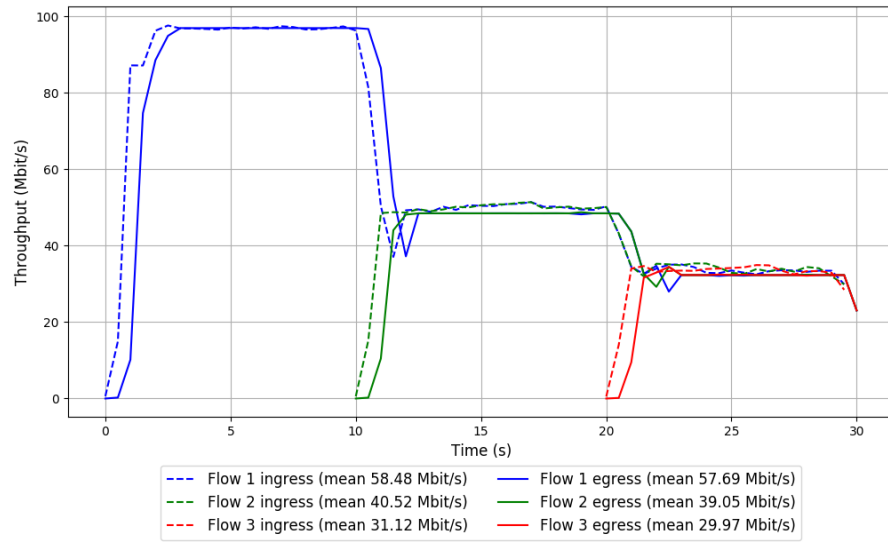
-- Flow 3:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 114.177 ms

Loss rate: 5.30%

# Run 10: Report of FillP-Sheep — Data Link

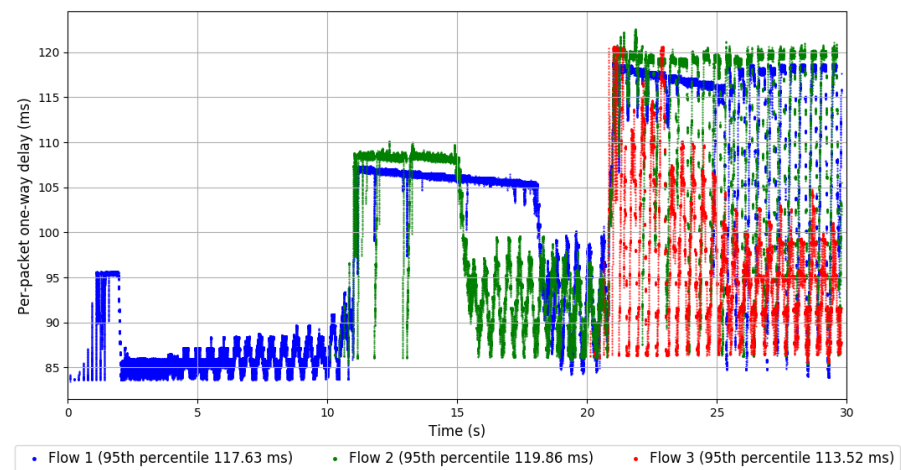
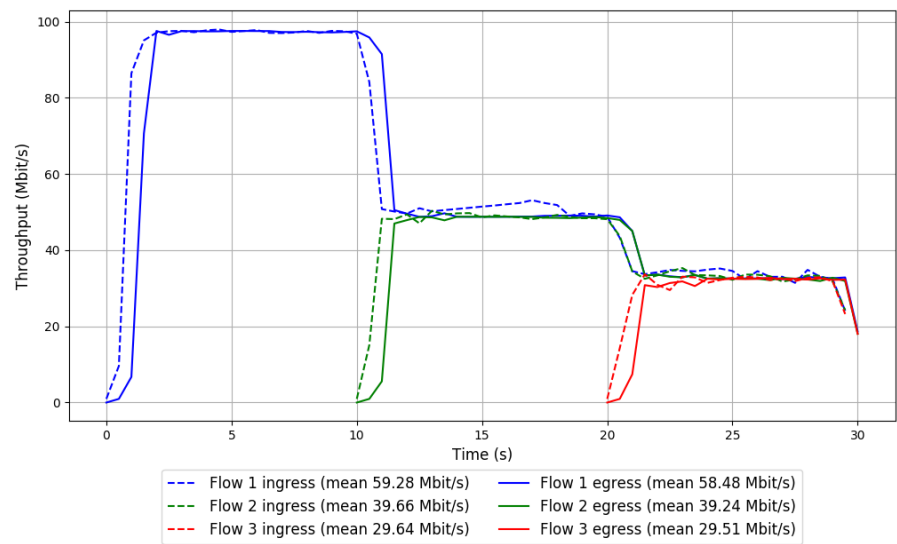


```
Run 1: Statistics of Indigo

Start at: 2018-07-04 11:10:28
End at: 2018-07-04 11:10:58
Local clock offset: -2.835 ms
Remote clock offset: 11.231 ms

# Below is generated by plot.py at 2018-07-04 14:34:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 118.911 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 117.626 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 119.862 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 113.519 ms
Loss rate: 2.15%
```

Run 1: Report of Indigo — Data Link



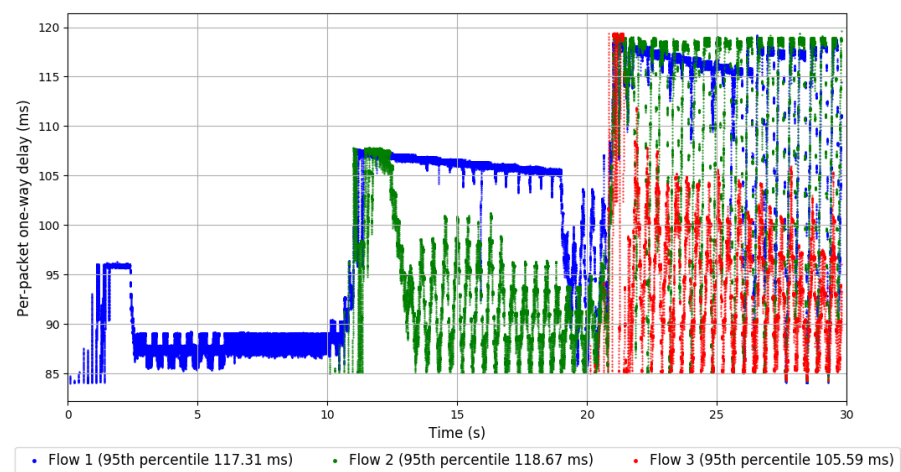
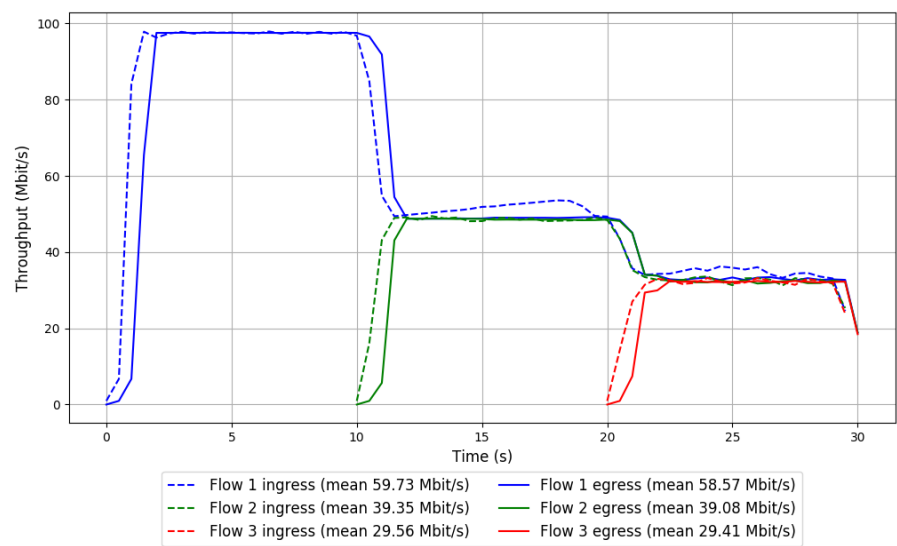
Run 2: Statistics of Indigo

Start at: 2018-07-04 11:31:40  
End at: 2018-07-04 11:32:10  
Local clock offset: -7.557 ms  
Remote clock offset: 11.759 ms

# Below is generated by plot.py at 2018-07-04 14:34:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.06 Mbit/s  
95th percentile per-packet one-way delay: 118.047 ms  
Loss rate: 2.20%  
-- Flow 1:  
Average throughput: 58.57 Mbit/s  
95th percentile per-packet one-way delay: 117.314 ms  
Loss rate: 2.51%  
-- Flow 2:  
Average throughput: 39.08 Mbit/s  
95th percentile per-packet one-way delay: 118.671 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 29.41 Mbit/s  
95th percentile per-packet one-way delay: 105.594 ms  
Loss rate: 2.17%



Run 2: Report of Indigo — Data Link

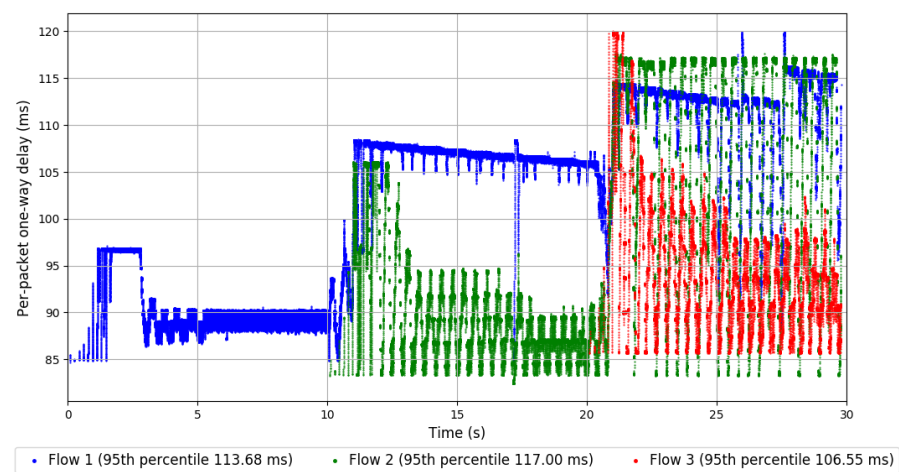
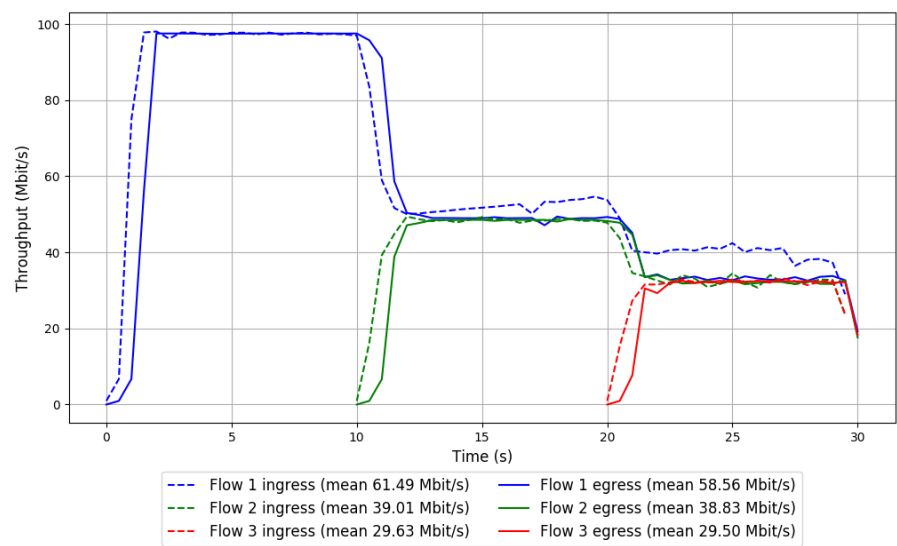


Run 3: Statistics of Indigo

Start at: 2018-07-04 11:53:08  
End at: 2018-07-04 11:53:38  
Local clock offset: -2.879 ms  
Remote clock offset: 11.143 ms

# Below is generated by plot.py at 2018-07-04 14:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.90 Mbit/s  
95th percentile per-packet one-way delay: 115.723 ms  
Loss rate: 3.93%  
-- Flow 1:  
Average throughput: 58.56 Mbit/s  
95th percentile per-packet one-way delay: 113.678 ms  
Loss rate: 5.33%  
-- Flow 2:  
Average throughput: 38.83 Mbit/s  
95th percentile per-packet one-way delay: 116.997 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 29.50 Mbit/s  
95th percentile per-packet one-way delay: 106.547 ms  
Loss rate: 2.12%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-04 12:14:28

End at: 2018-07-04 12:14:58

Local clock offset: -1.748 ms

Remote clock offset: 7.004 ms

# Below is generated by plot.py at 2018-07-04 14:35:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 113.866 ms

Loss rate: 16.37%

-- Flow 1:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 113.452 ms

Loss rate: 14.79%

-- Flow 2:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 114.415 ms

Loss rate: 18.60%

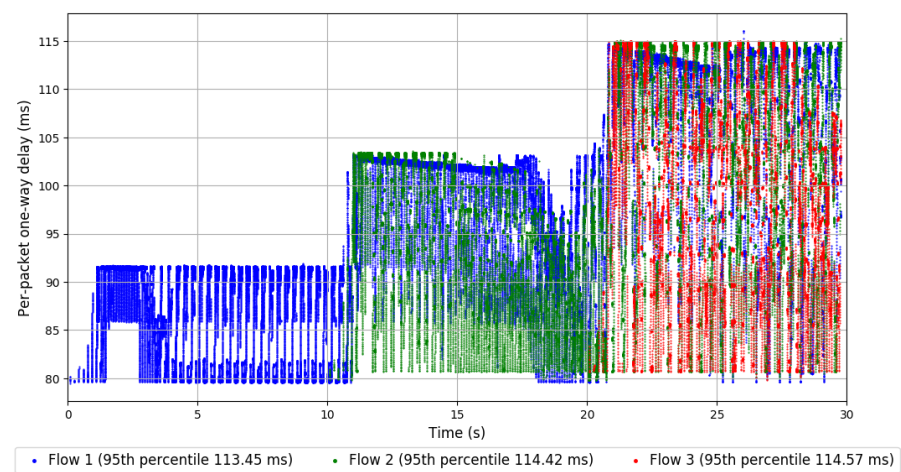
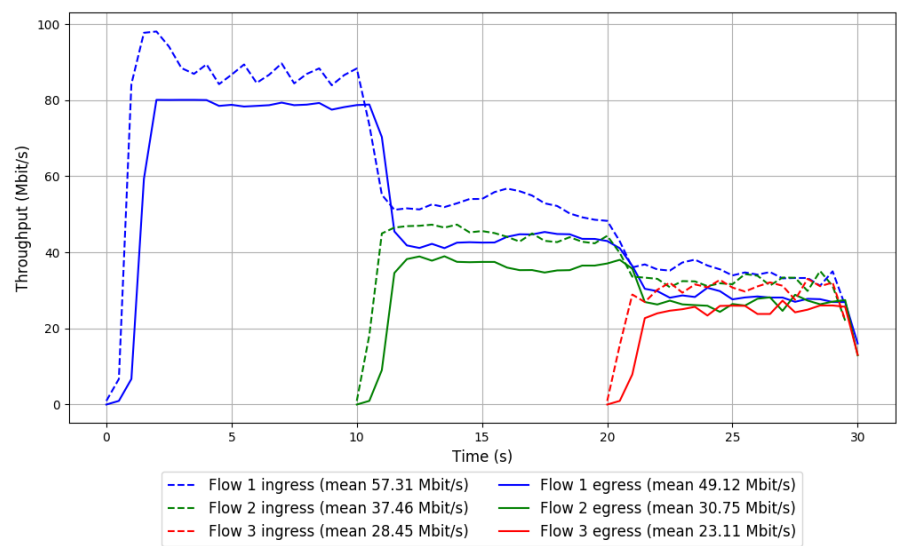
-- Flow 3:

Average throughput: 23.11 Mbit/s

95th percentile per-packet one-way delay: 114.574 ms

Loss rate: 20.15%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-04 12:35:57

End at: 2018-07-04 12:36:27

Local clock offset: -2.714 ms

Remote clock offset: 6.233 ms

# Below is generated by plot.py at 2018-07-04 14:35:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 113.942 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 114.722 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 113.124 ms

Loss rate: 1.28%

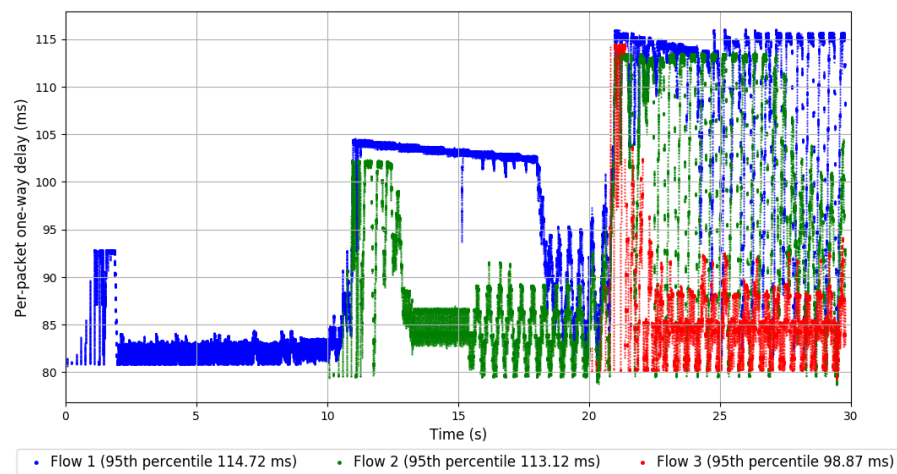
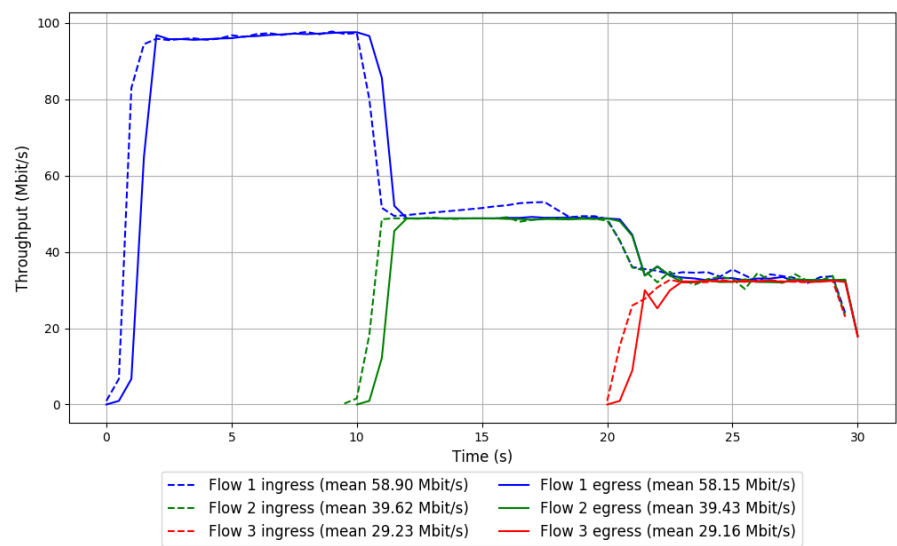
-- Flow 3:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: 98.869 ms

Loss rate: 1.91%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-04 12:57:14

End at: 2018-07-04 12:57:44

Local clock offset: -2.419 ms

Remote clock offset: 9.741 ms

# Below is generated by plot.py at 2018-07-04 14:35:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 108.182 ms

Loss rate: 6.36%

-- Flow 1:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 106.703 ms

Loss rate: 9.01%

-- Flow 2:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 110.994 ms

Loss rate: 1.46%

-- Flow 3:

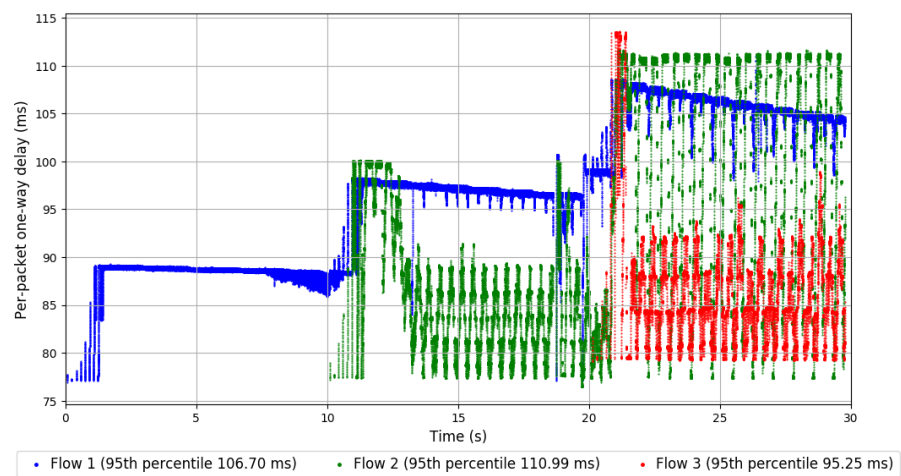
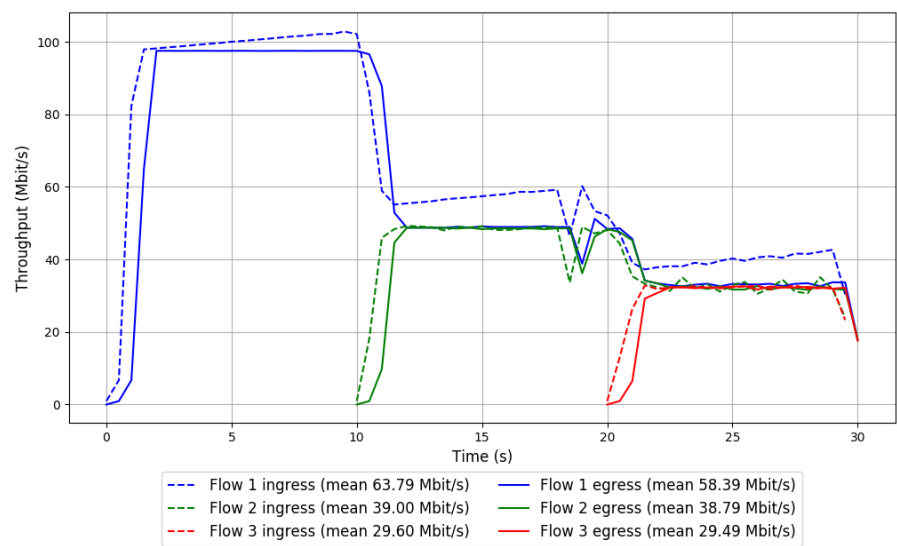
Average throughput: 29.49 Mbit/s

95th percentile per-packet one-way delay: 95.253 ms

Loss rate: 2.05%



Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-04 13:18:37

End at: 2018-07-04 13:19:07

Local clock offset: -5.355 ms

Remote clock offset: 2.643 ms

# Below is generated by plot.py at 2018-07-04 14:35:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 117.163 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 116.516 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 117.644 ms

Loss rate: 2.11%

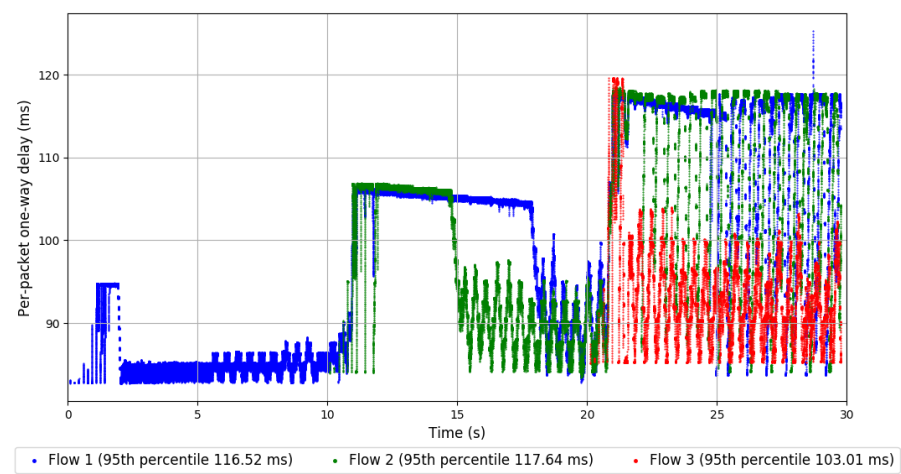
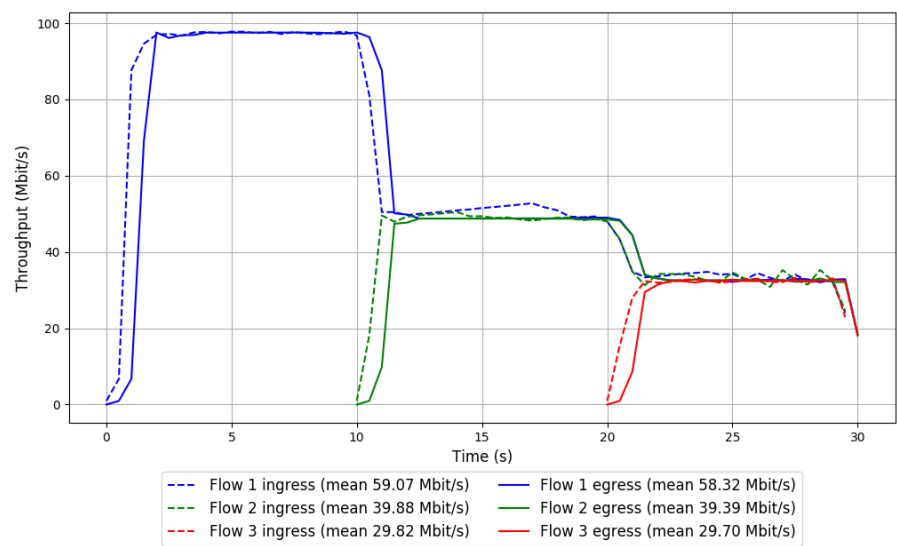
-- Flow 3:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 103.011 ms

Loss rate: 2.06%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-04 13:39:54

End at: 2018-07-04 13:40:24

Local clock offset: -7.859 ms

Remote clock offset: 4.89 ms

# Below is generated by plot.py at 2018-07-04 14:35:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 115.261 ms

Loss rate: 14.96%

-- Flow 1:

Average throughput: 52.55 Mbit/s

95th percentile per-packet one-way delay: 115.304 ms

Loss rate: 12.57%

-- Flow 2:

Average throughput: 25.78 Mbit/s

95th percentile per-packet one-way delay: 114.730 ms

Loss rate: 19.63%

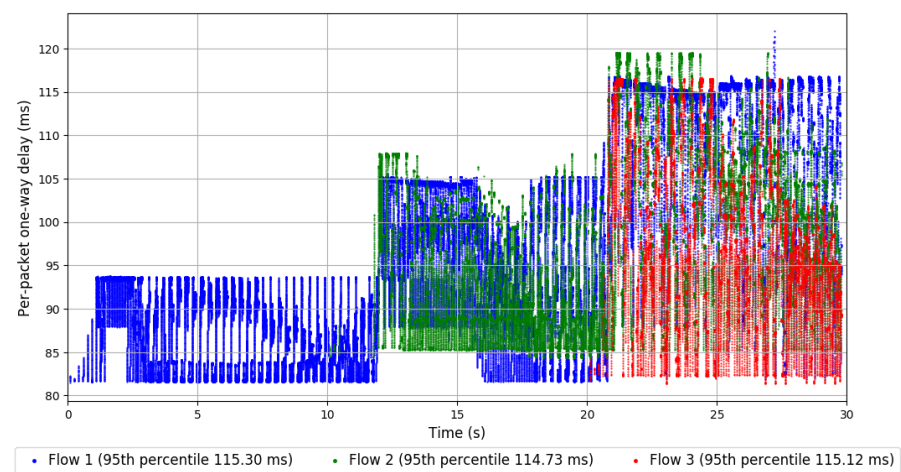
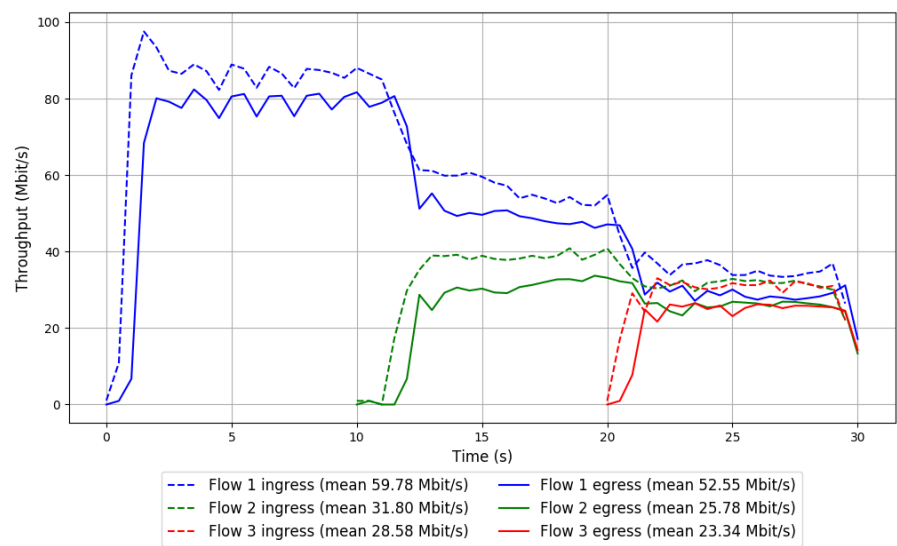
-- Flow 3:

Average throughput: 23.34 Mbit/s

95th percentile per-packet one-way delay: 115.120 ms

Loss rate: 19.69%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-04 14:01:40

End at: 2018-07-04 14:02:10

Local clock offset: -2.568 ms

Remote clock offset: 14.36 ms

# Below is generated by plot.py at 2018-07-04 14:36:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 113.462 ms

Loss rate: 6.78%

-- Flow 1:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 107.263 ms

Loss rate: 9.69%

-- Flow 2:

Average throughput: 38.63 Mbit/s

95th percentile per-packet one-way delay: 113.437 ms

Loss rate: 0.96%

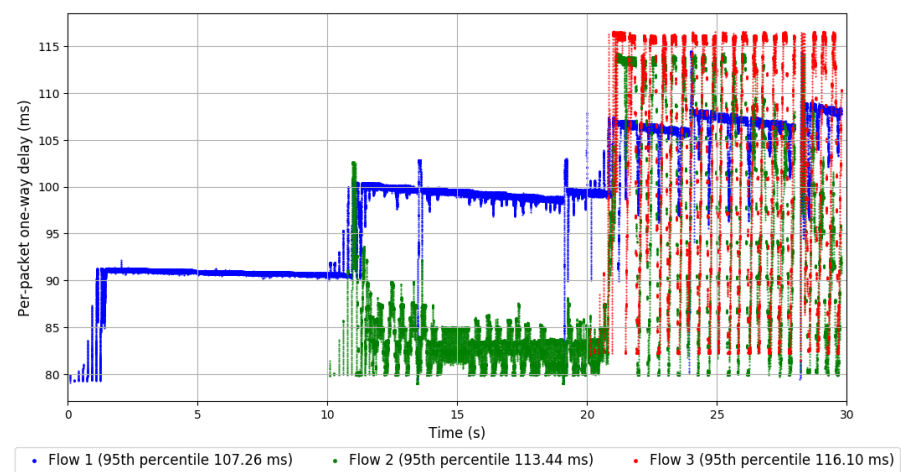
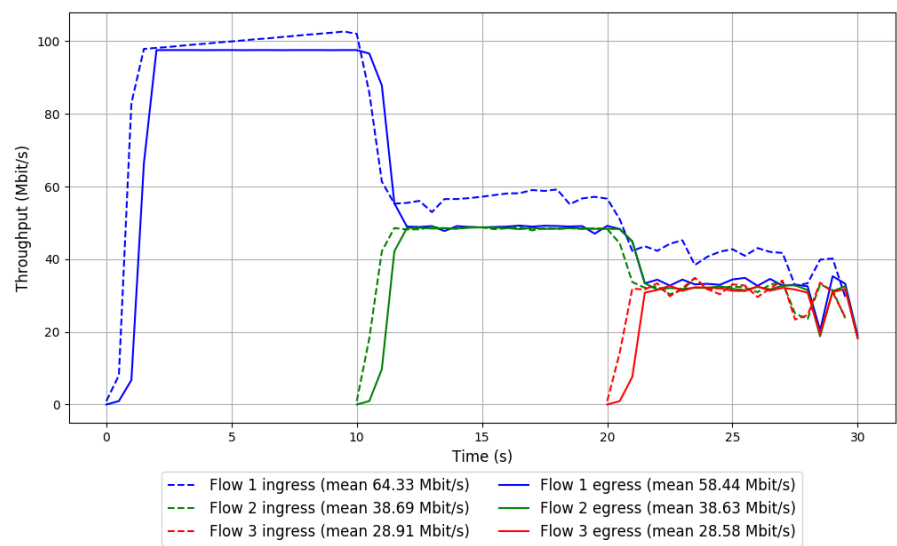
-- Flow 3:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 116.096 ms

Loss rate: 2.84%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-04 14:22:58

End at: 2018-07-04 14:23:28

Local clock offset: -2.649 ms

Remote clock offset: 5.555 ms

# Below is generated by plot.py at 2018-07-04 14:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 116.127 ms

Loss rate: 6.19%

-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 111.627 ms

Loss rate: 8.83%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 119.192 ms

Loss rate: 1.34%

-- Flow 3:

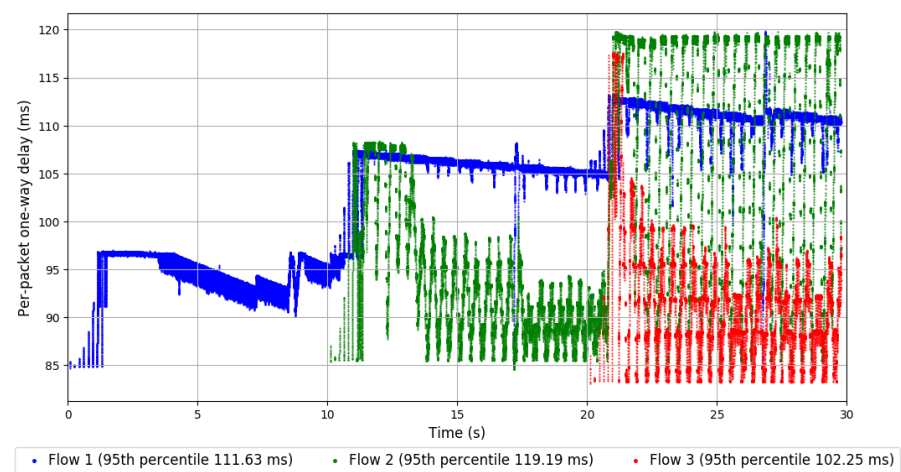
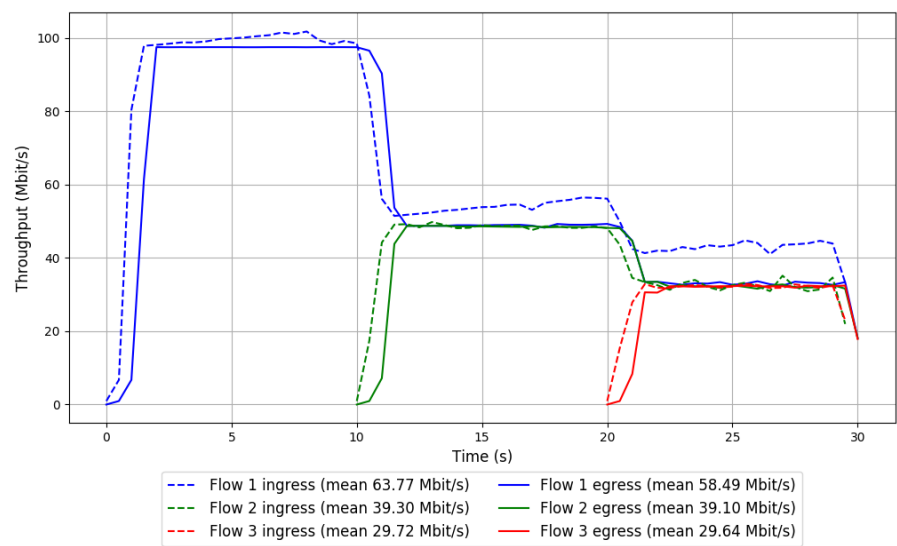
Average throughput: 29.64 Mbit/s

95th percentile per-packet one-way delay: 102.245 ms

Loss rate: 1.93%



Run 10: Report of Indigo — Data Link

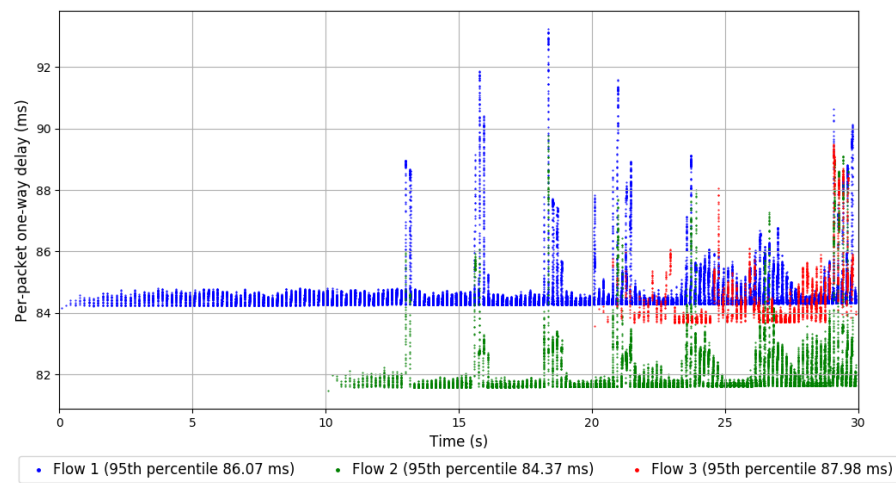
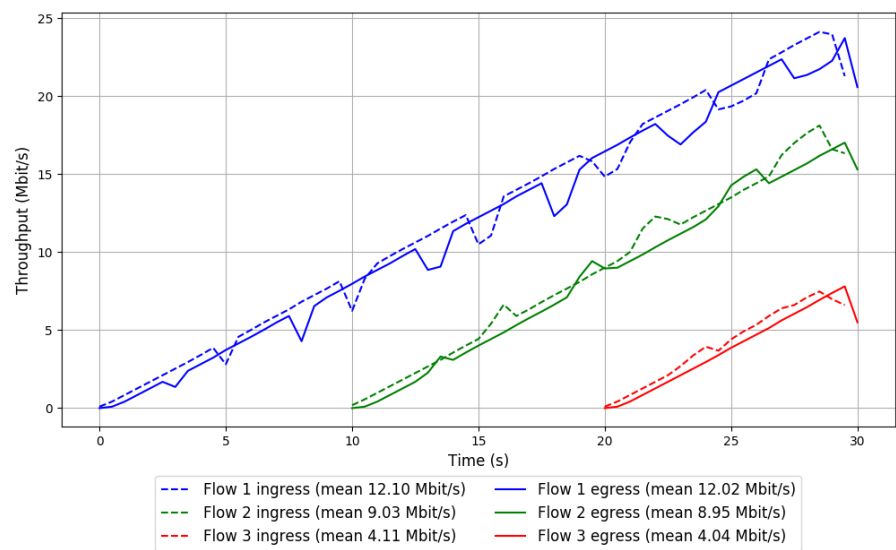


Run 1: Statistics of LEDBAT

Start at: 2018-07-04 11:05:29  
End at: 2018-07-04 11:05:59  
Local clock offset: -2.662 ms  
Remote clock offset: 11.581 ms

# Below is generated by plot.py at 2018-07-04 14:36:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.30 Mbit/s  
95th percentile per-packet one-way delay: 85.895 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 12.02 Mbit/s  
95th percentile per-packet one-way delay: 86.074 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 8.95 Mbit/s  
95th percentile per-packet one-way delay: 84.370 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 4.04 Mbit/s  
95th percentile per-packet one-way delay: 87.980 ms  
Loss rate: 3.41%

Run 1: Report of LEDBAT — Data Link

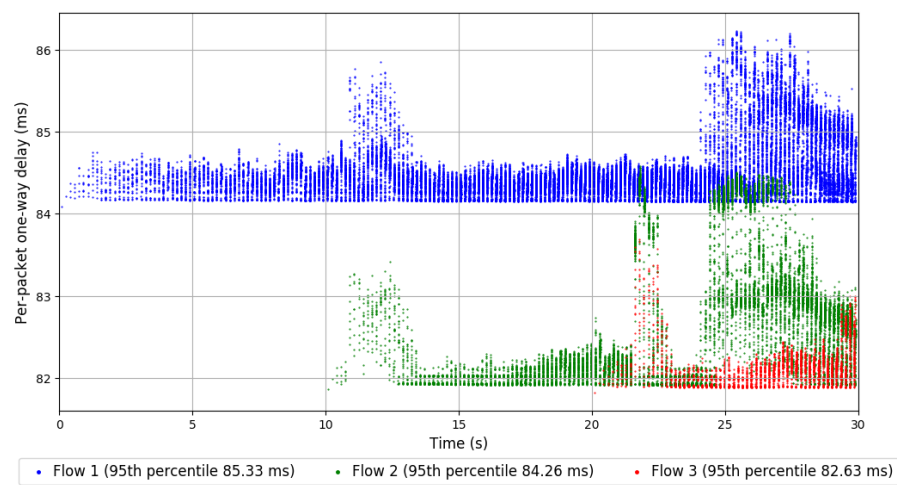
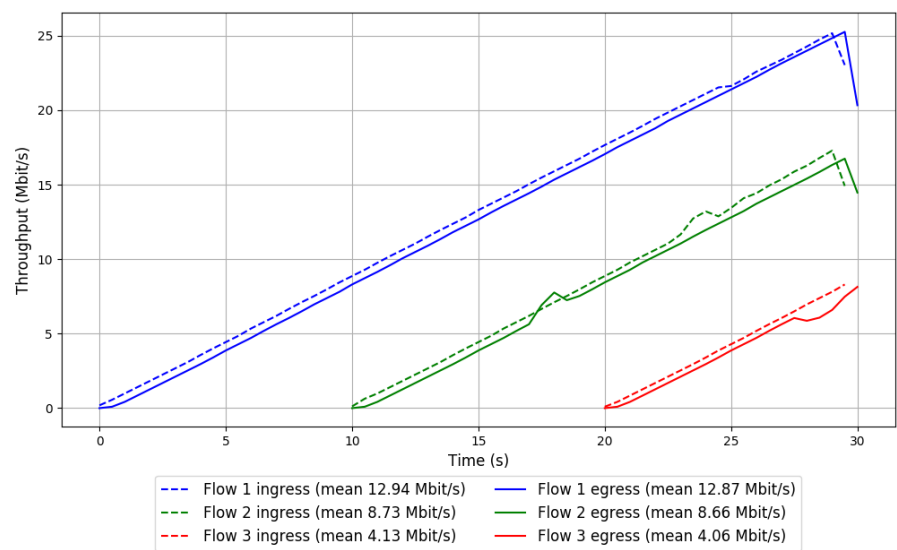


Run 2: Statistics of LEDBAT

Start at: 2018-07-04 11:26:41  
End at: 2018-07-04 11:27:11  
Local clock offset: -7.023 ms  
Remote clock offset: 12.434 ms

# Below is generated by plot.py at 2018-07-04 14:36:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.95 Mbit/s  
95th percentile per-packet one-way delay: 85.190 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 12.87 Mbit/s  
95th percentile per-packet one-way delay: 85.327 ms  
Loss rate: 1.11%  
-- Flow 2:  
Average throughput: 8.66 Mbit/s  
95th percentile per-packet one-way delay: 84.261 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 4.06 Mbit/s  
95th percentile per-packet one-way delay: 82.634 ms  
Loss rate: 3.43%

Run 2: Report of LEDBAT — Data Link

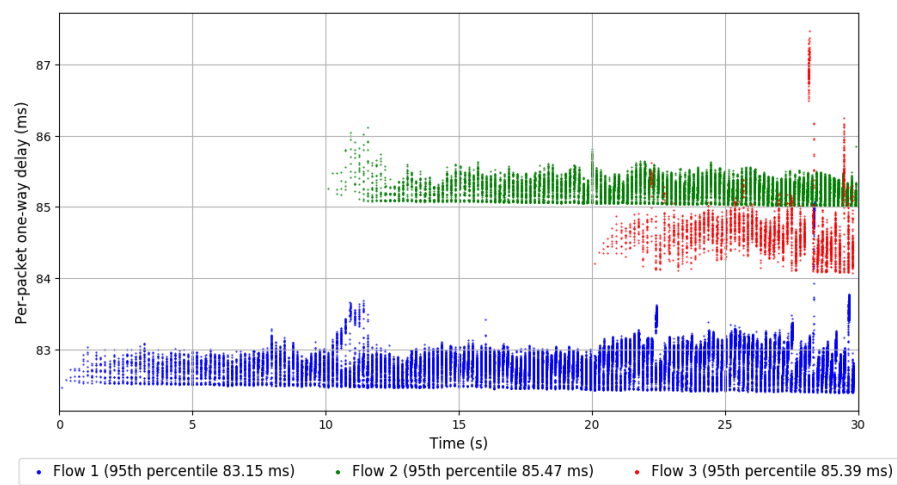
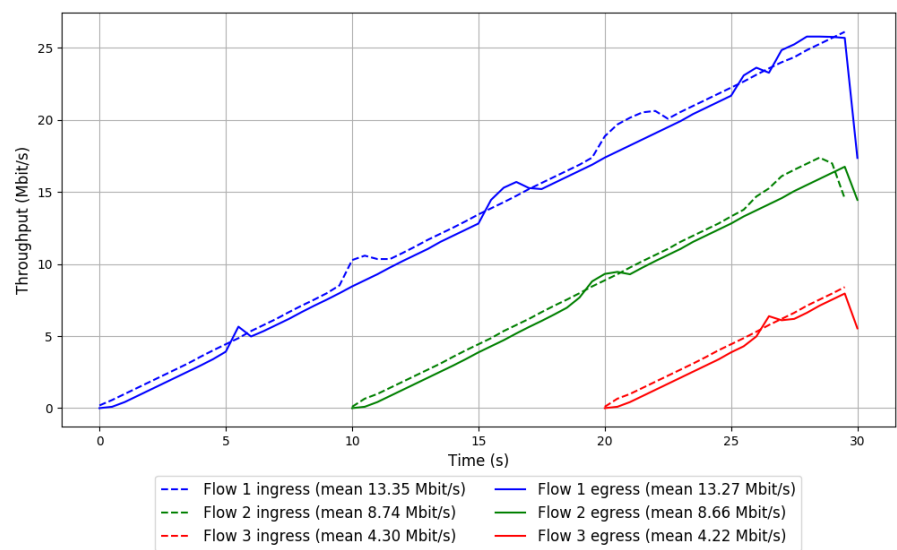


Run 3: Statistics of LEDBAT

Start at: 2018-07-04 11:48:08  
End at: 2018-07-04 11:48:38  
Local clock offset: -4.167 ms  
Remote clock offset: 10.856 ms

# Below is generated by plot.py at 2018-07-04 14:36:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.36 Mbit/s  
95th percentile per-packet one-way delay: 85.380 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 13.27 Mbit/s  
95th percentile per-packet one-way delay: 83.149 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 8.66 Mbit/s  
95th percentile per-packet one-way delay: 85.467 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 4.22 Mbit/s  
95th percentile per-packet one-way delay: 85.392 ms  
Loss rate: 3.38%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-04 12:09:29

End at: 2018-07-04 12:09:59

Local clock offset: -1.067 ms

Remote clock offset: 6.995 ms

# Below is generated by plot.py at 2018-07-04 14:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 81.716 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 81.752 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 79.976 ms

Loss rate: 1.67%

-- Flow 3:

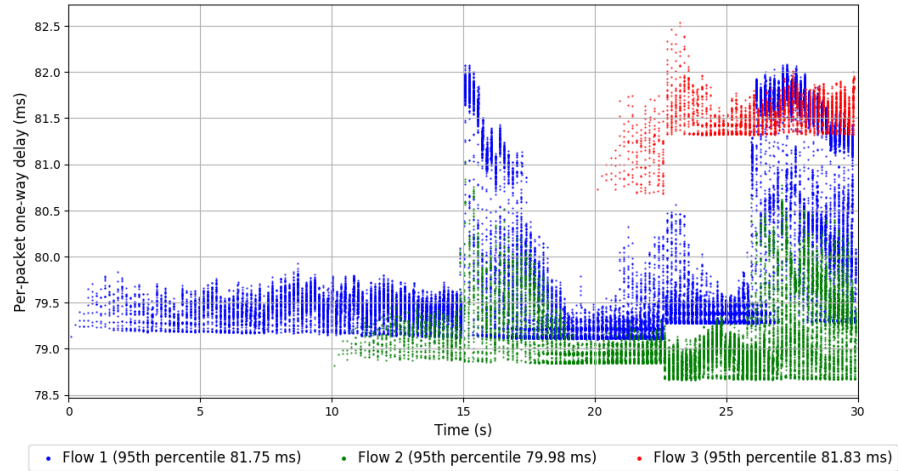
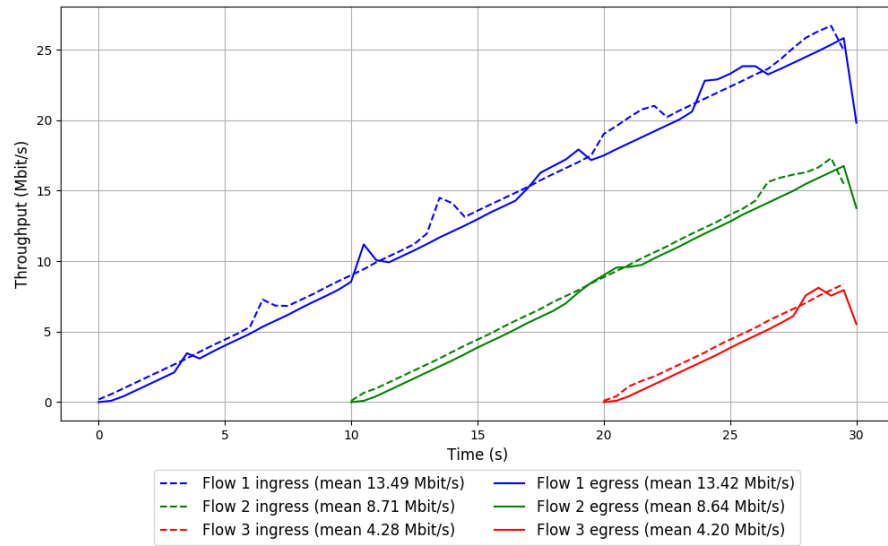
Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 81.827 ms

Loss rate: 3.36%



#### Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-04 12:30:57

End at: 2018-07-04 12:31:27

Local clock offset: -2.62 ms

Remote clock offset: 5.123 ms

# Below is generated by plot.py at 2018-07-04 14:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.92 Mbit/s

95th percentile per-packet one-way delay: 82.911 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 82.379 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 83.369 ms

Loss rate: 1.71%

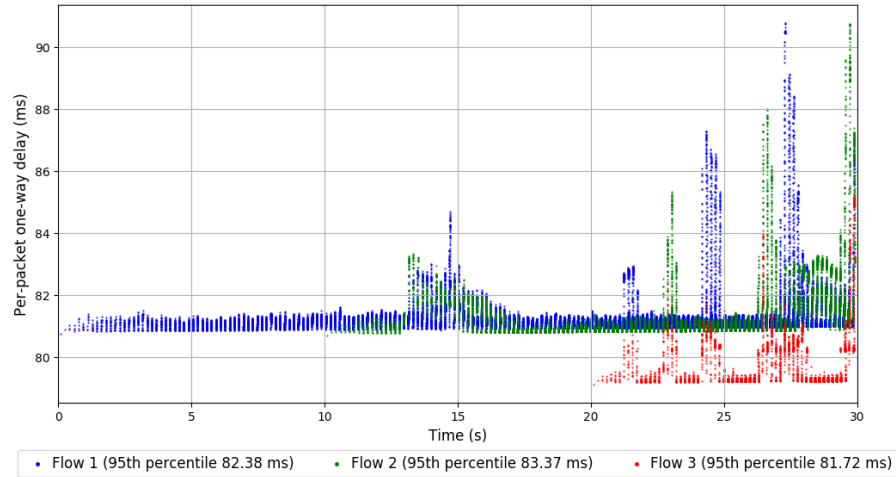
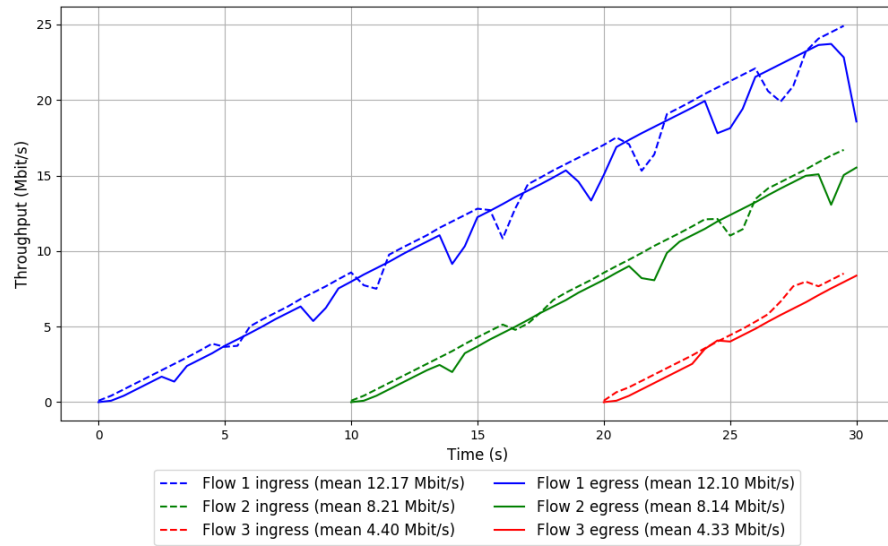
-- Flow 3:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 81.716 ms

Loss rate: 3.29%

## Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-04 12:52:14

End at: 2018-07-04 12:52:44

Local clock offset: -2.54 ms

Remote clock offset: 7.586 ms

# Below is generated by plot.py at 2018-07-04 14:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.01 Mbit/s

95th percentile per-packet one-way delay: 81.893 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 81.314 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 81.895 ms

Loss rate: 1.73%

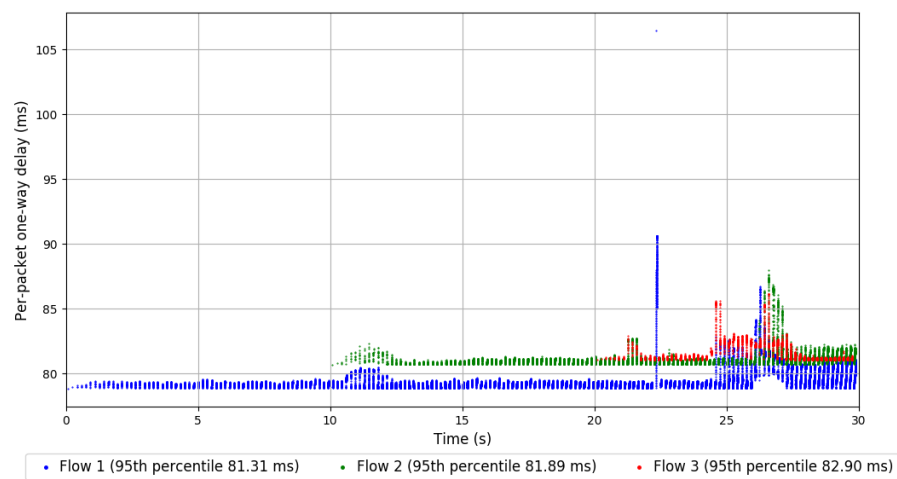
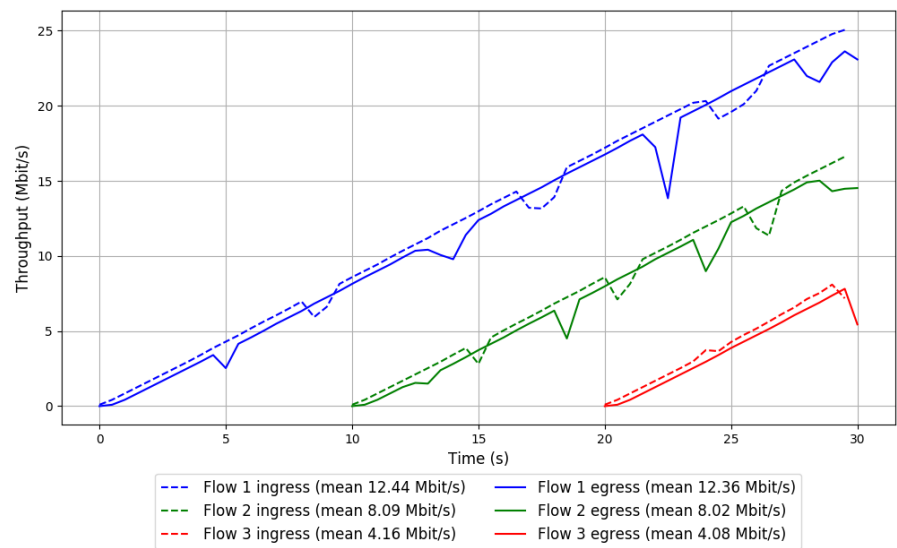
-- Flow 3:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 82.899 ms

Loss rate: 3.41%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-04 13:13:38

End at: 2018-07-04 13:14:08

Local clock offset: -3.933 ms

Remote clock offset: 7.878 ms

# Below is generated by plot.py at 2018-07-04 14:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.30 Mbit/s

95th percentile per-packet one-way delay: 81.650 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 81.539 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 81.563 ms

Loss rate: 1.66%

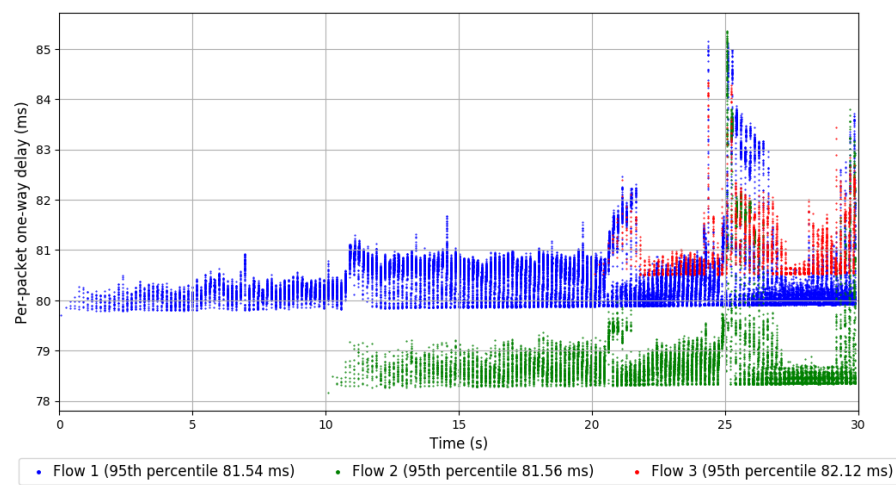
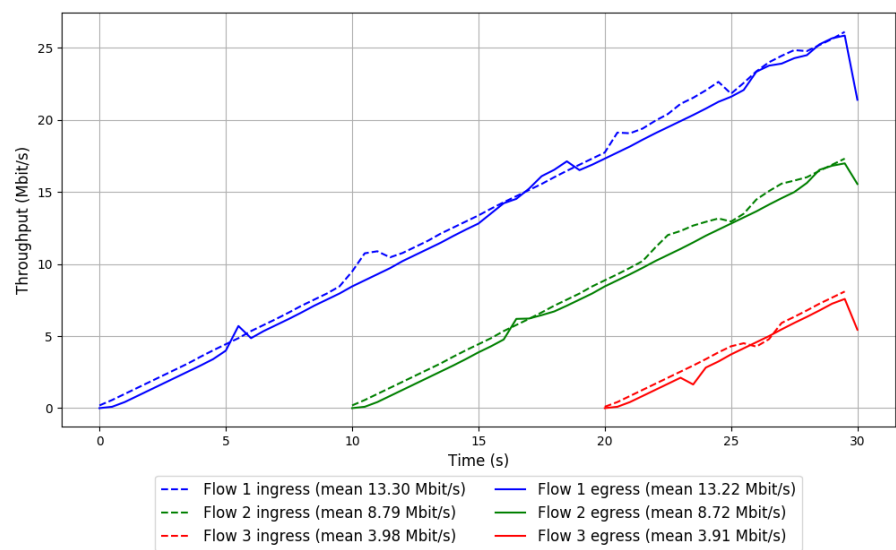
-- Flow 3:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 82.124 ms

Loss rate: 3.47%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-04 13:34:55

End at: 2018-07-04 13:35:25

Local clock offset: -7.487 ms

Remote clock offset: 2.178 ms

# Below is generated by plot.py at 2018-07-04 14:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 84.971 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 84.279 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 85.292 ms

Loss rate: 1.64%

-- Flow 3:

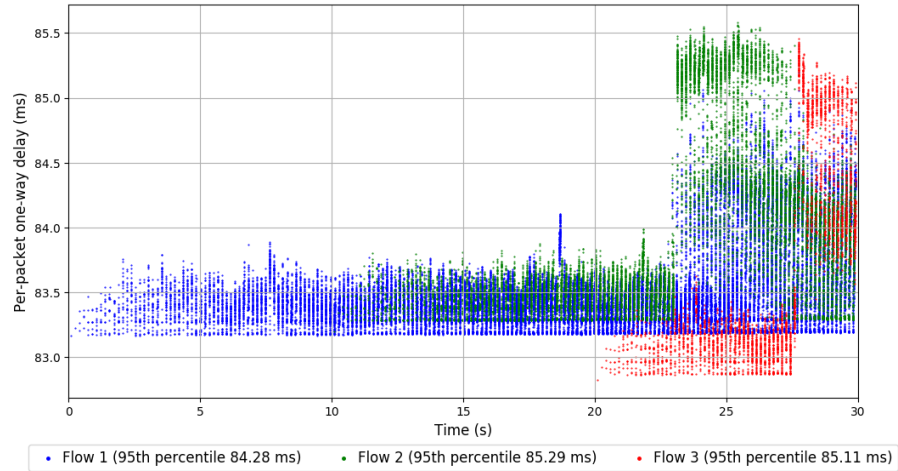
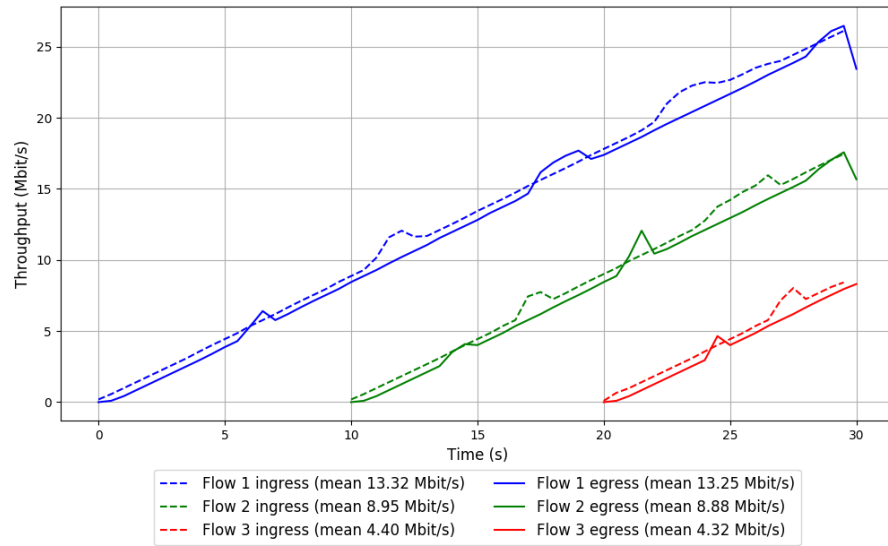
Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 85.115 ms

Loss rate: 3.27%



## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-04 13:56:39

End at: 2018-07-04 13:57:09

Local clock offset: -3.036 ms

Remote clock offset: 9.77 ms

# Below is generated by plot.py at 2018-07-04 14:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.39 Mbit/s

95th percentile per-packet one-way delay: 85.758 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.17 Mbit/s

95th percentile per-packet one-way delay: 84.943 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 85.794 ms

Loss rate: 1.64%

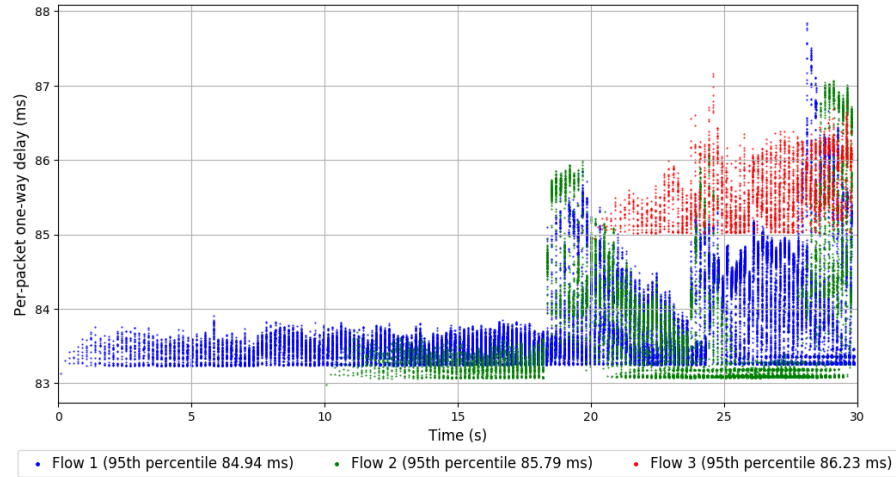
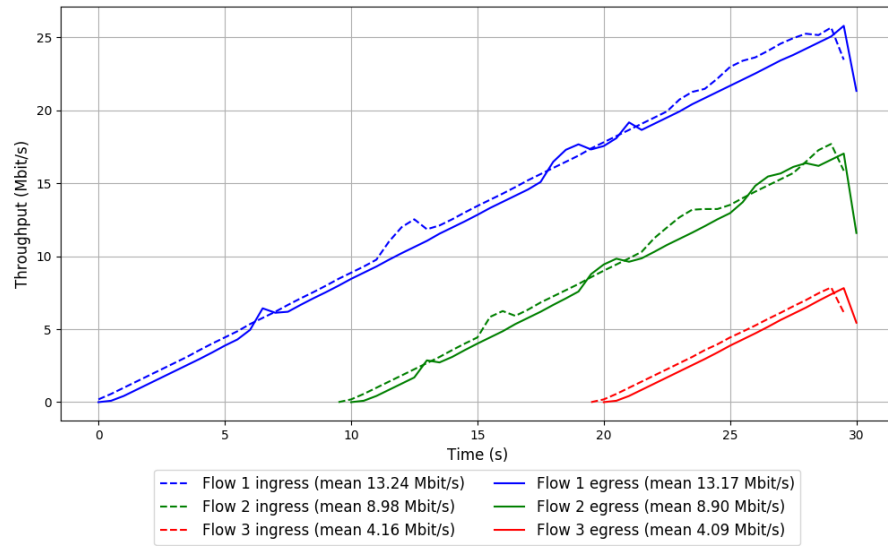
-- Flow 3:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 86.232 ms

Loss rate: 3.41%

# Run 9: Report of LEDBAT — Data Link

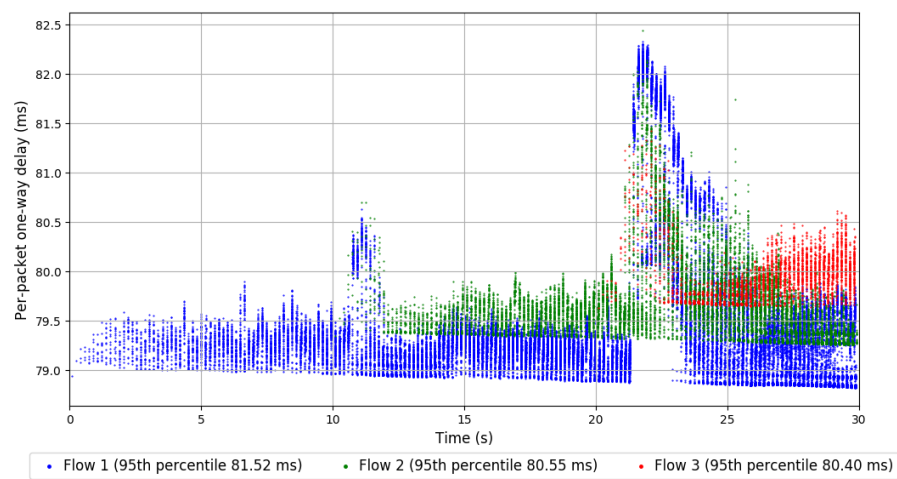
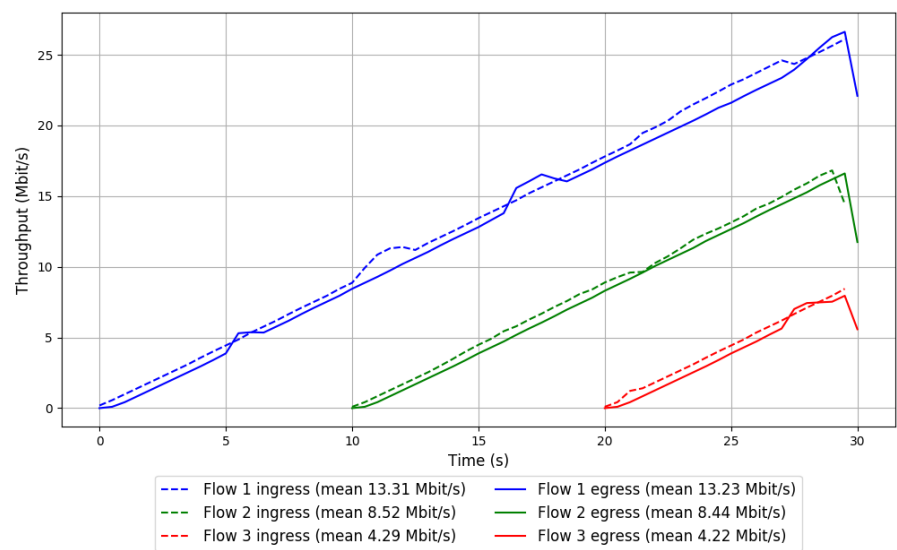


Run 10: Statistics of LEDBAT

Start at: 2018-07-04 14:17:57  
End at: 2018-07-04 14:18:27  
Local clock offset: -2.626 ms  
Remote clock offset: 12.447 ms

# Below is generated by plot.py at 2018-07-04 14:36:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.21 Mbit/s  
95th percentile per-packet one-way delay: 81.007 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 13.23 Mbit/s  
95th percentile per-packet one-way delay: 81.517 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 8.44 Mbit/s  
95th percentile per-packet one-way delay: 80.545 ms  
Loss rate: 1.68%  
-- Flow 3:  
Average throughput: 4.22 Mbit/s  
95th percentile per-packet one-way delay: 80.400 ms  
Loss rate: 3.37%

Run 10: Report of LEDBAT — Data Link

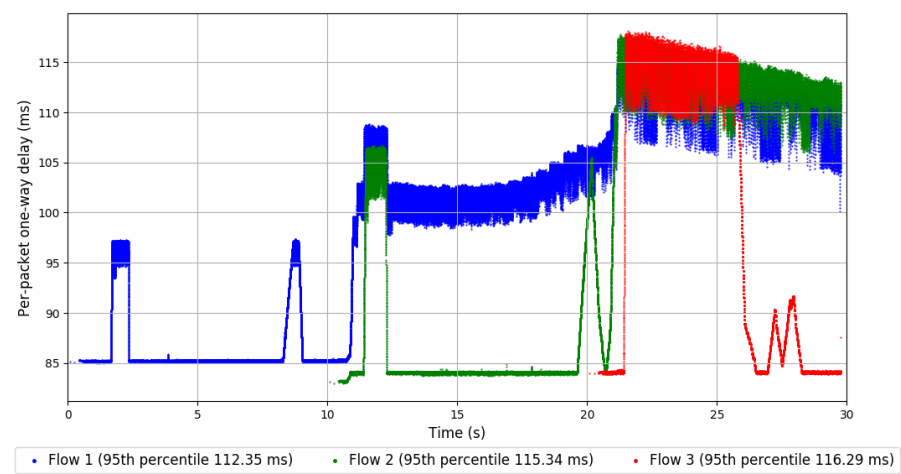
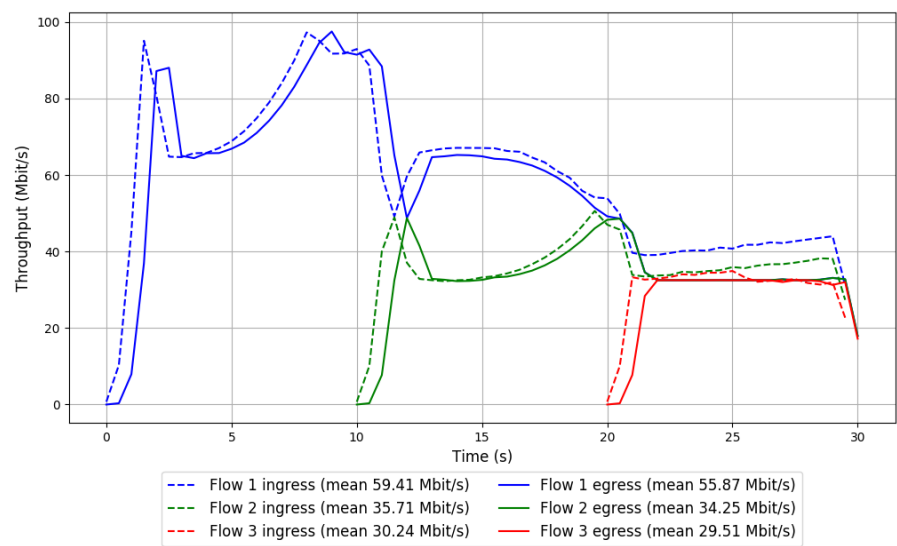


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-04 11:07:57
End at: 2018-07-04 11:08:27
Local clock offset: -2.665 ms
Remote clock offset: 10.99 ms

# Below is generated by plot.py at 2018-07-04 14:37:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.19 Mbit/s
95th percentile per-packet one-way delay: 114.444 ms
Loss rate: 5.85%
-- Flow 1:
Average throughput: 55.87 Mbit/s
95th percentile per-packet one-way delay: 112.349 ms
Loss rate: 6.51%
-- Flow 2:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 115.339 ms
Loss rate: 4.94%
-- Flow 3:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 116.288 ms
Loss rate: 4.09%
```

Run 1: Report of PCC-Allegro — Data Link



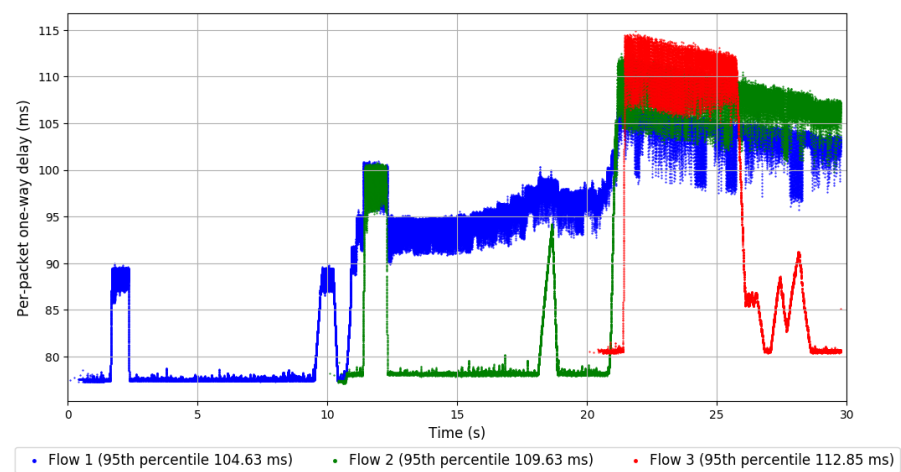
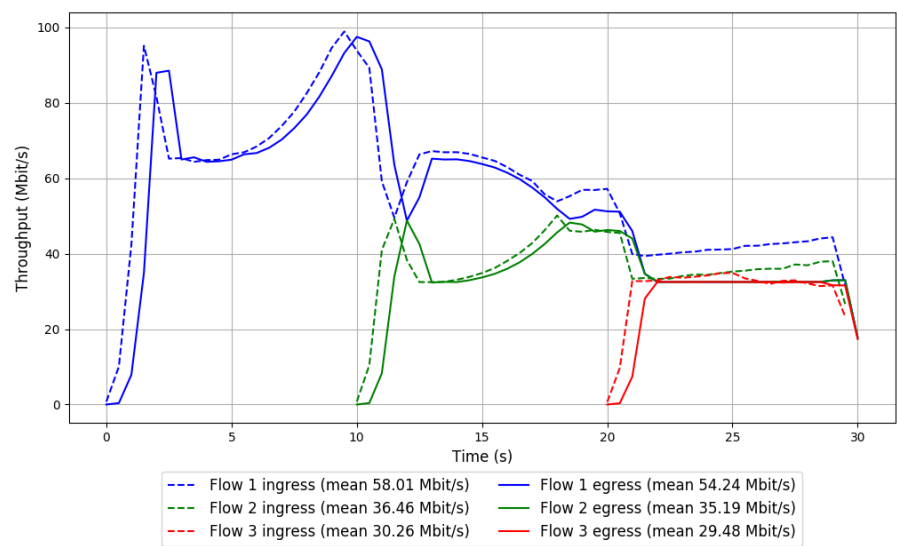
Run 2: Statistics of PCC-Allegro

Start at: 2018-07-04 11:29:09  
End at: 2018-07-04 11:29:39  
Local clock offset: -7.301 ms  
Remote clock offset: 15.964 ms

# Below is generated by plot.py at 2018-07-04 14:37:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.18 Mbit/s  
95th percentile per-packet one-way delay: 109.572 ms  
Loss rate: 6.02%  
-- Flow 1:  
Average throughput: 54.24 Mbit/s  
95th percentile per-packet one-way delay: 104.626 ms  
Loss rate: 7.04%  
-- Flow 2:  
Average throughput: 35.19 Mbit/s  
95th percentile per-packet one-way delay: 109.631 ms  
Loss rate: 4.32%  
-- Flow 3:  
Average throughput: 29.48 Mbit/s  
95th percentile per-packet one-way delay: 112.853 ms  
Loss rate: 4.23%



Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-04 11:50:36

End at: 2018-07-04 11:51:06

Local clock offset: -3.382 ms

Remote clock offset: 11.86 ms

# Below is generated by plot.py at 2018-07-04 14:37:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 115.437 ms

Loss rate: 4.08%

-- Flow 1:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 114.996 ms

Loss rate: 3.83%

-- Flow 2:

Average throughput: 35.17 Mbit/s

95th percentile per-packet one-way delay: 113.782 ms

Loss rate: 4.43%

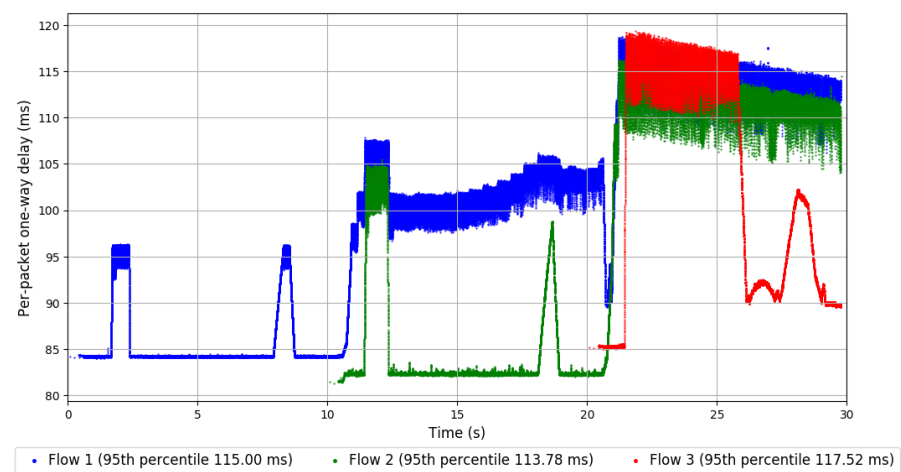
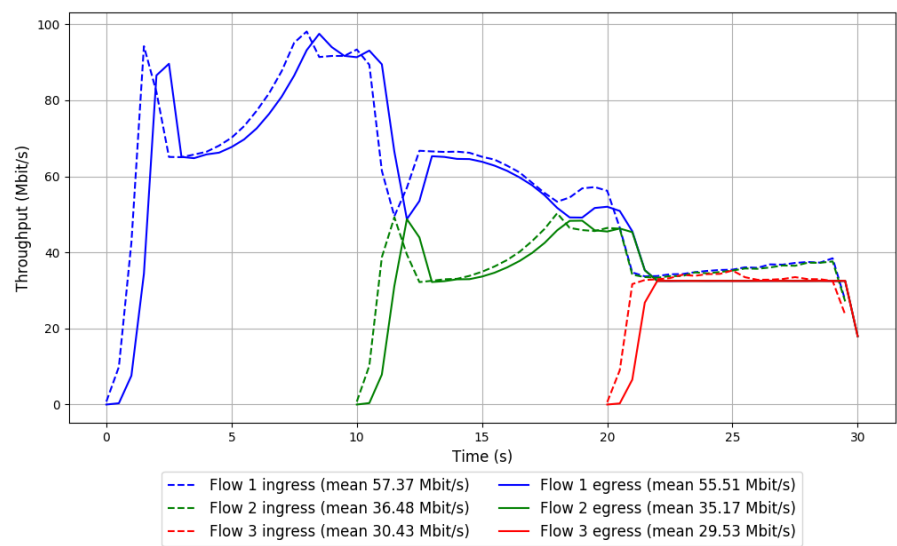
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 117.519 ms

Loss rate: 4.68%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-04 12:11:57

End at: 2018-07-04 12:12:27

Local clock offset: -1.345 ms

Remote clock offset: 8.687 ms

# Below is generated by plot.py at 2018-07-04 14:37:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 108.045 ms

Loss rate: 6.04%

-- Flow 1:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 104.203 ms

Loss rate: 7.04%

-- Flow 2:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 108.801 ms

Loss rate: 4.43%

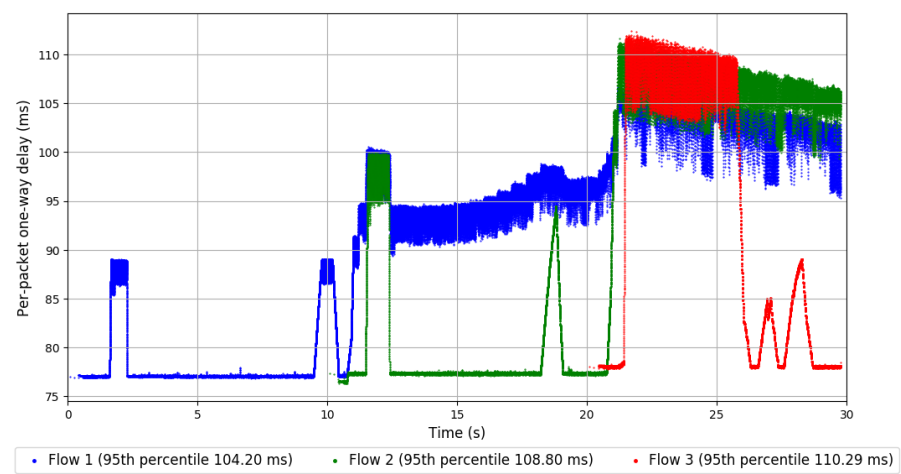
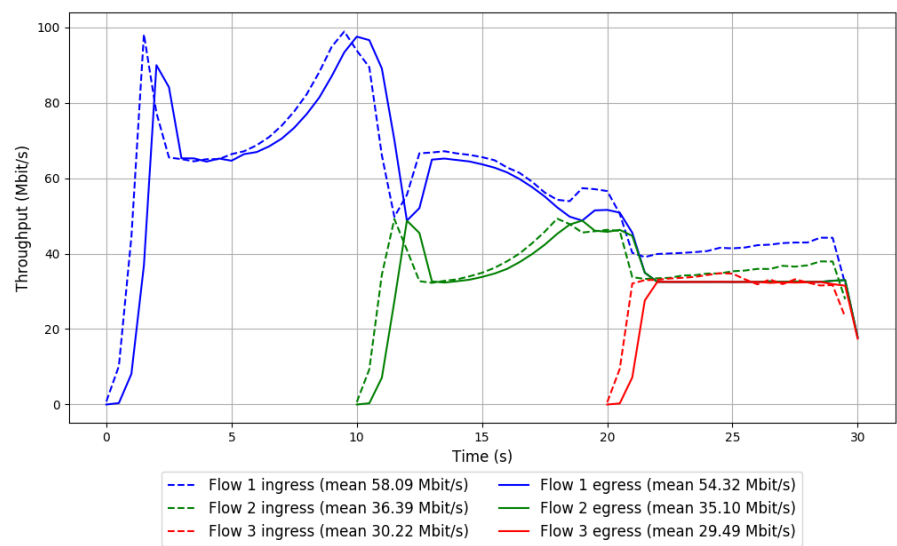
-- Flow 3:

Average throughput: 29.49 Mbit/s

95th percentile per-packet one-way delay: 110.290 ms

Loss rate: 4.11%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-04 12:33:25

End at: 2018-07-04 12:33:55

Local clock offset: -2.7 ms

Remote clock offset: 6.746 ms

# Below is generated by plot.py at 2018-07-04 14:37:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 111.173 ms

Loss rate: 5.88%

-- Flow 1:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 104.583 ms

Loss rate: 6.56%

-- Flow 2:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 111.978 ms

Loss rate: 4.89%

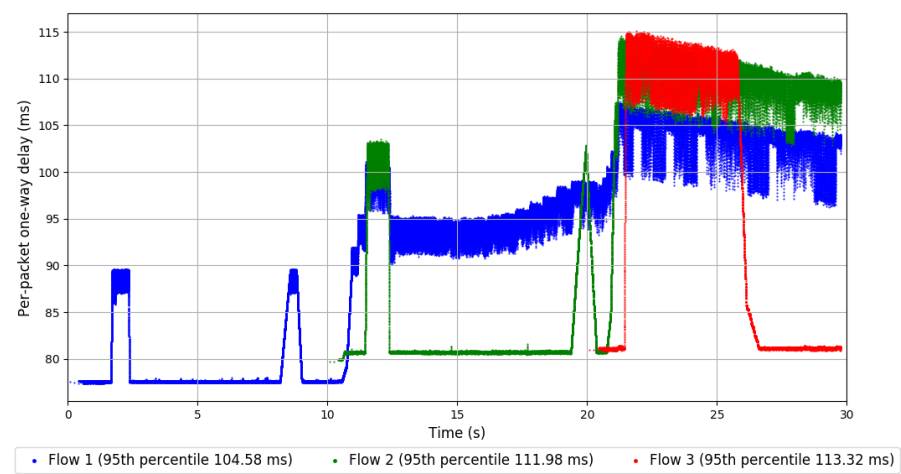
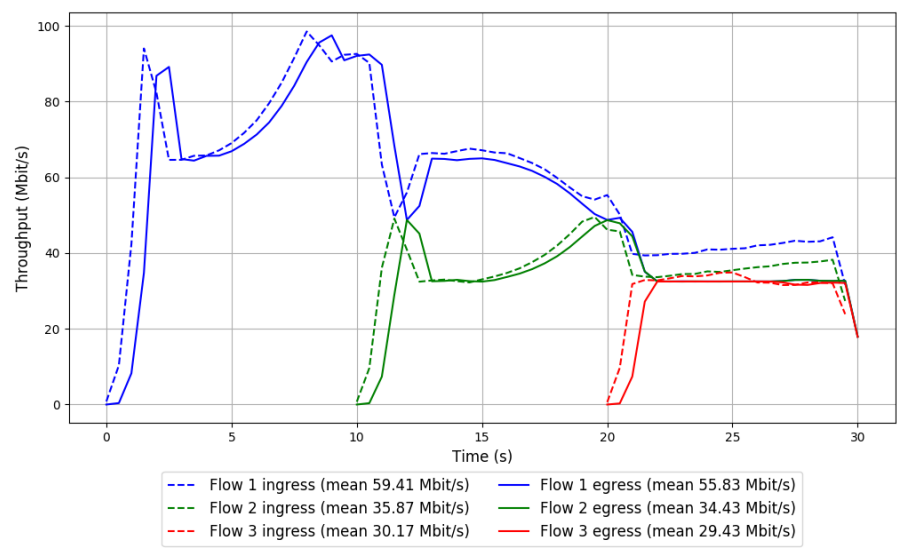
-- Flow 3:

Average throughput: 29.43 Mbit/s

95th percentile per-packet one-way delay: 113.317 ms

Loss rate: 4.15%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-04 12:54:42

End at: 2018-07-04 12:55:12

Local clock offset: -2.451 ms

Remote clock offset: 3.73 ms

# Below is generated by plot.py at 2018-07-04 14:37:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 114.786 ms

Loss rate: 5.80%

-- Flow 1:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 109.336 ms

Loss rate: 6.60%

-- Flow 2:

Average throughput: 35.16 Mbit/s

95th percentile per-packet one-way delay: 115.423 ms

Loss rate: 4.43%

-- Flow 3:

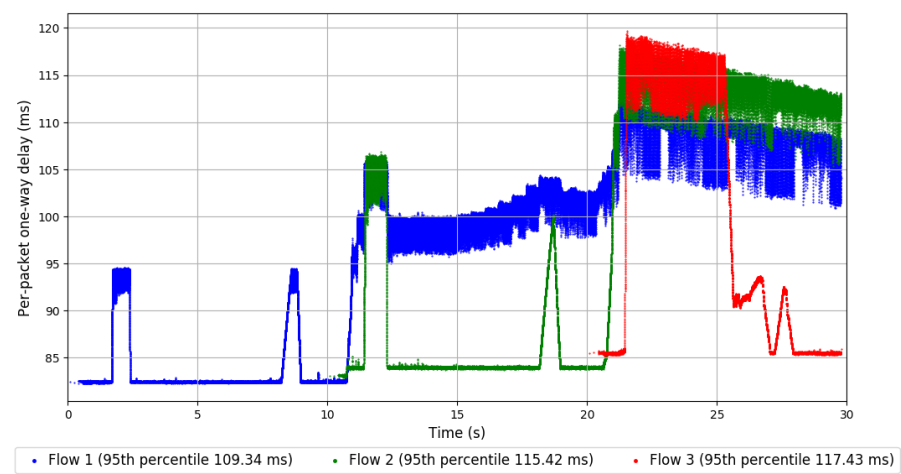
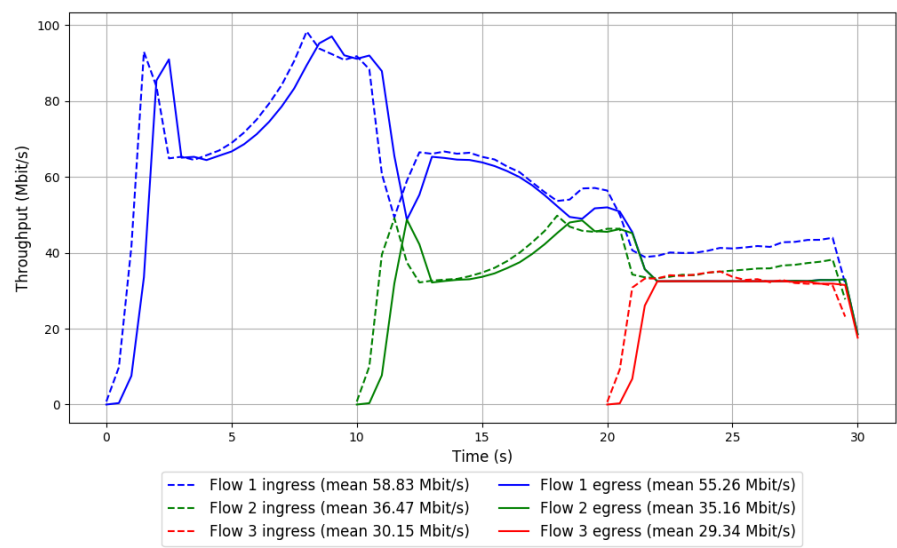
Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 117.433 ms

Loss rate: 4.38%



Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-04 13:16:06

End at: 2018-07-04 13:16:36

Local clock offset: -4.671 ms

Remote clock offset: 7.868 ms

# Below is generated by plot.py at 2018-07-04 14:37:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 109.704 ms

Loss rate: 5.81%

-- Flow 1:

Average throughput: 55.04 Mbit/s

95th percentile per-packet one-way delay: 107.066 ms

Loss rate: 6.62%

-- Flow 2:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 110.701 ms

Loss rate: 4.35%

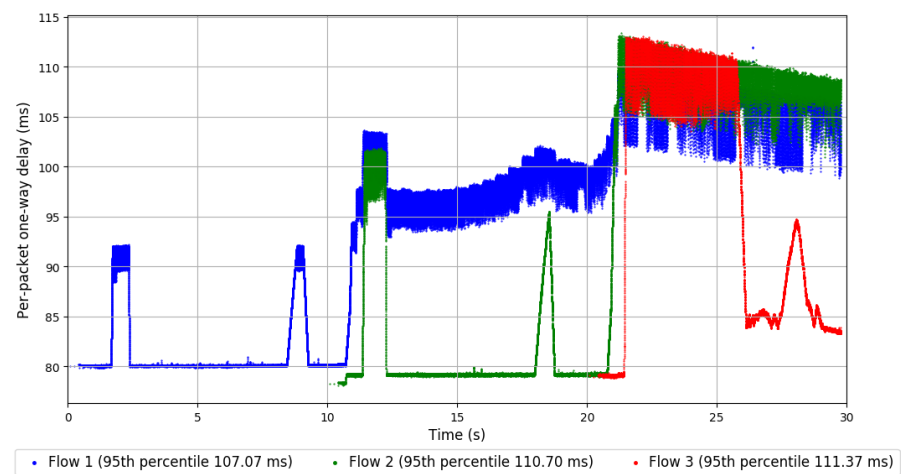
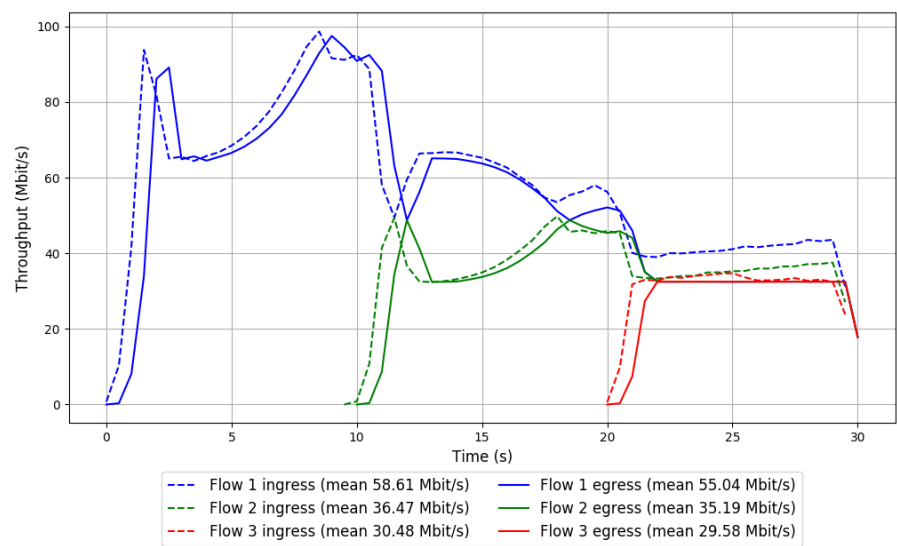
-- Flow 3:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 111.372 ms

Loss rate: 4.61%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-04 13:37:23

End at: 2018-07-04 13:37:53

Local clock offset: -7.672 ms

Remote clock offset: 2.109 ms

# Below is generated by plot.py at 2018-07-04 14:37:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.09 Mbit/s

95th percentile per-packet one-way delay: 116.846 ms

Loss rate: 5.74%

-- Flow 1:

Average throughput: 55.08 Mbit/s

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

Loss rate: 6.59%

-- Flow 2:

Average throughput: 35.30 Mbit/s

95th percentile per-packet one-way delay: 118.095 ms

Loss rate: 4.29%

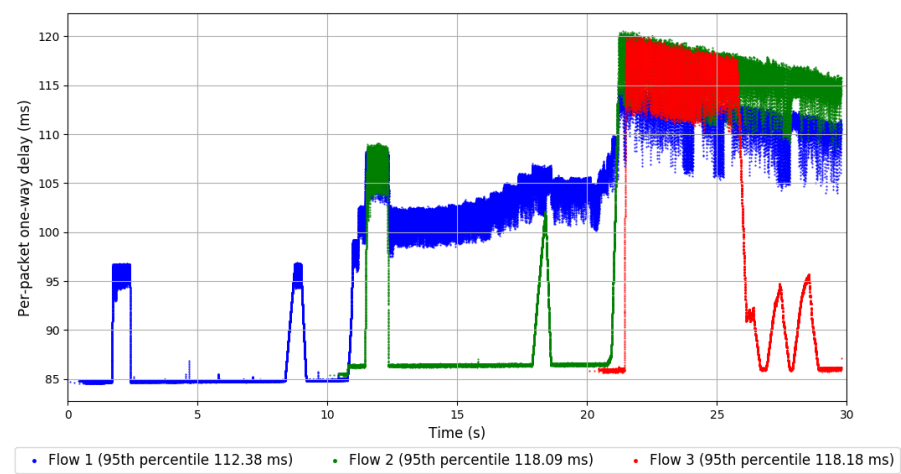
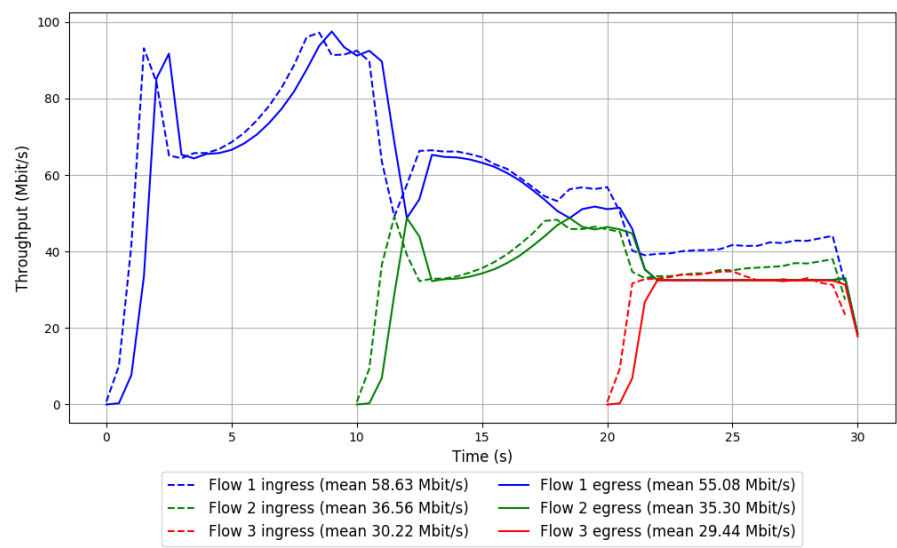
-- Flow 3:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 118.178 ms

Loss rate: 4.26%

Run 8: Report of PCC-Allegro — Data Link

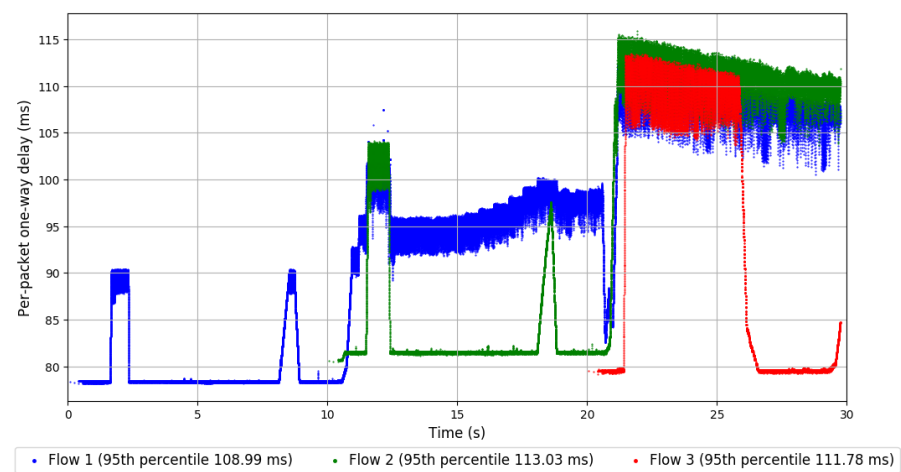
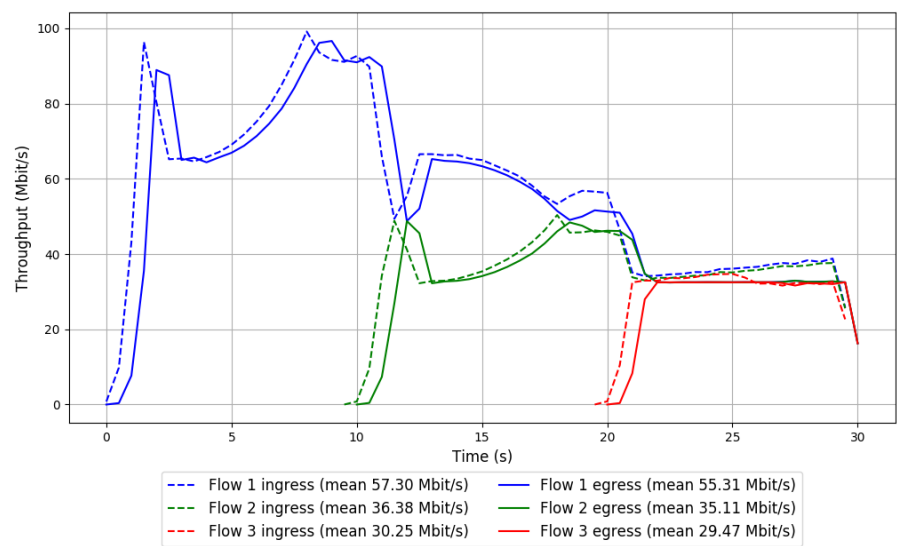


Run 9: Statistics of PCC-Allegro

Start at: 2018-07-04 13:59:07  
End at: 2018-07-04 13:59:37  
Local clock offset: -2.825 ms  
Remote clock offset: 14.171 ms

# Below is generated by plot.py at 2018-07-04 14:37:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.22 Mbit/s  
95th percentile per-packet one-way delay: 111.381 ms  
Loss rate: 4.15%  
-- Flow 1:  
Average throughput: 55.31 Mbit/s  
95th percentile per-packet one-way delay: 108.990 ms  
Loss rate: 4.05%  
-- Flow 2:  
Average throughput: 35.11 Mbit/s  
95th percentile per-packet one-way delay: 113.029 ms  
Loss rate: 4.35%  
-- Flow 3:  
Average throughput: 29.47 Mbit/s  
95th percentile per-packet one-way delay: 111.778 ms  
Loss rate: 4.24%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-04 14:20:26

End at: 2018-07-04 14:20:56

Local clock offset: -2.622 ms

Remote clock offset: 6.412 ms

# Below is generated by plot.py at 2018-07-04 14:37:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.31 Mbit/s

95th percentile per-packet one-way delay: 115.101 ms

Loss rate: 6.03%

-- Flow 1:

Average throughput: 54.38 Mbit/s

95th percentile per-packet one-way delay: 109.006 ms

Loss rate: 7.01%

-- Flow 2:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 115.197 ms

Loss rate: 4.45%

-- Flow 3:

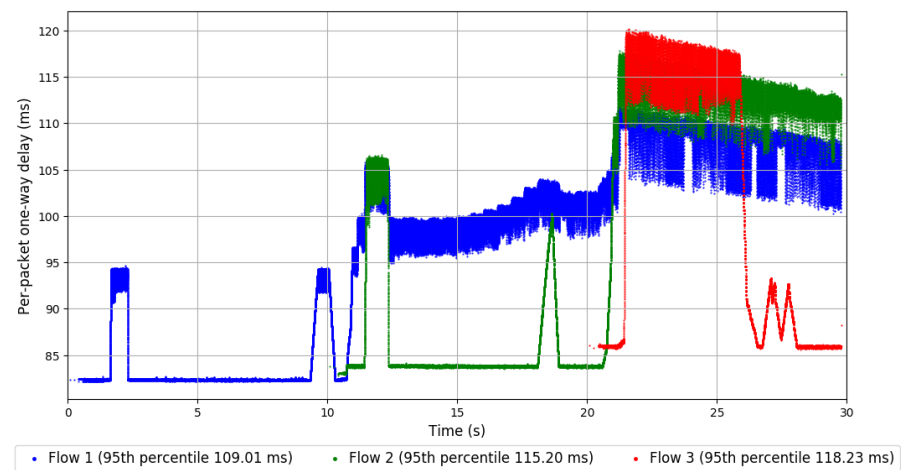
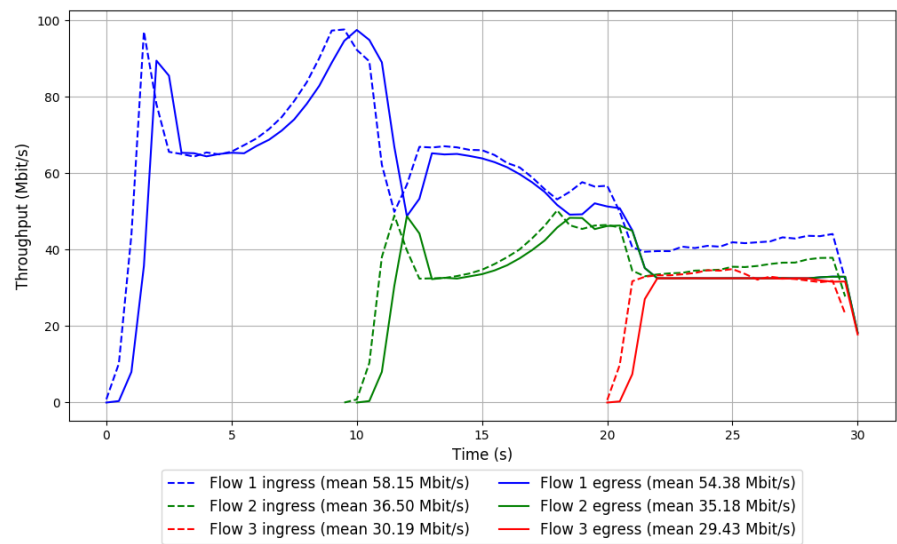
Average throughput: 29.43 Mbit/s

95th percentile per-packet one-way delay: 118.230 ms

Loss rate: 4.19%



Run 10: Report of PCC-Allegro — Data Link

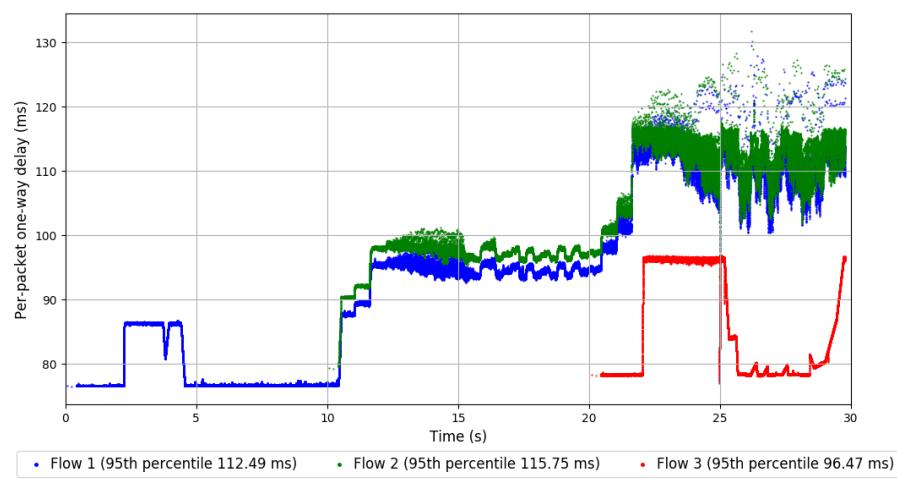
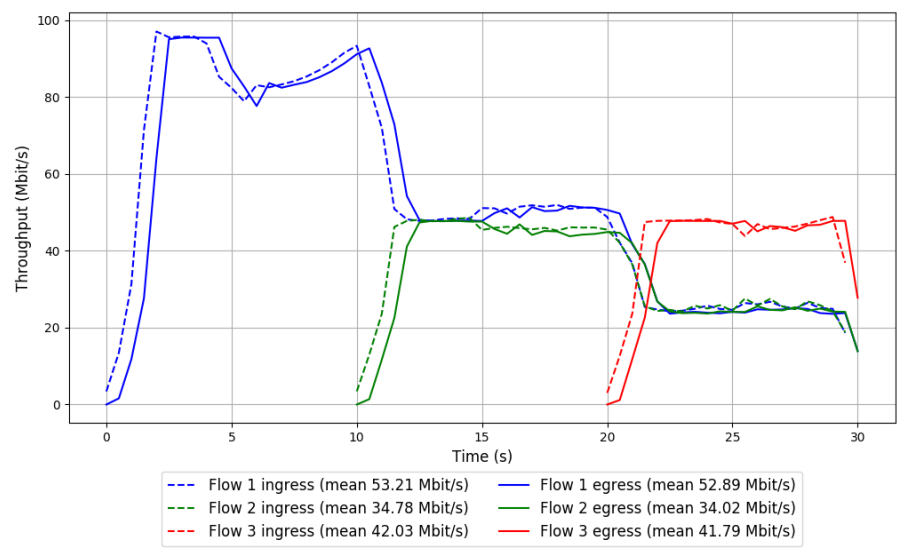


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-04 10:51:47
End at: 2018-07-04 10:52:17
Local clock offset: -2.468 ms
Remote clock offset: 12.23 ms

# Below is generated by plot.py at 2018-07-04 14:38:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 113.429 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 112.488 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 34.02 Mbit/s
95th percentile per-packet one-way delay: 115.745 ms
Loss rate: 3.13%
-- Flow 3:
Average throughput: 41.79 Mbit/s
95th percentile per-packet one-way delay: 96.467 ms
Loss rate: 2.35%
```

Run 1: Report of PCC-Expr — Data Link

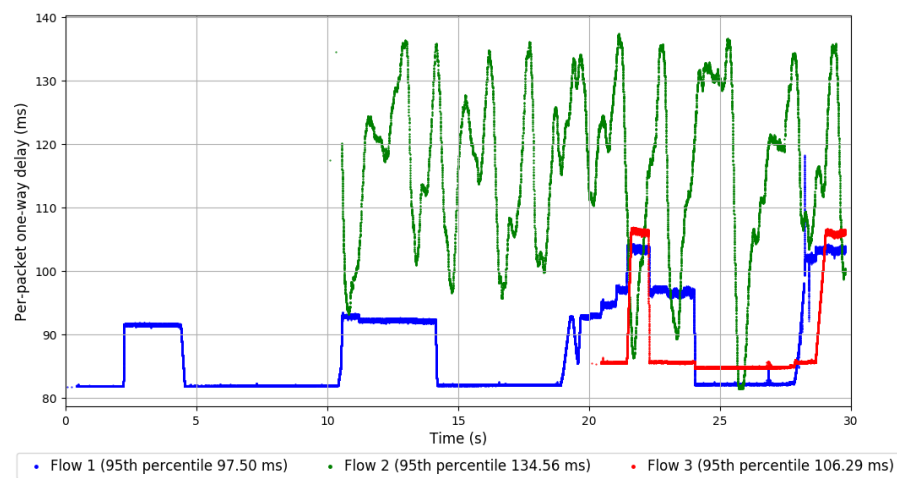
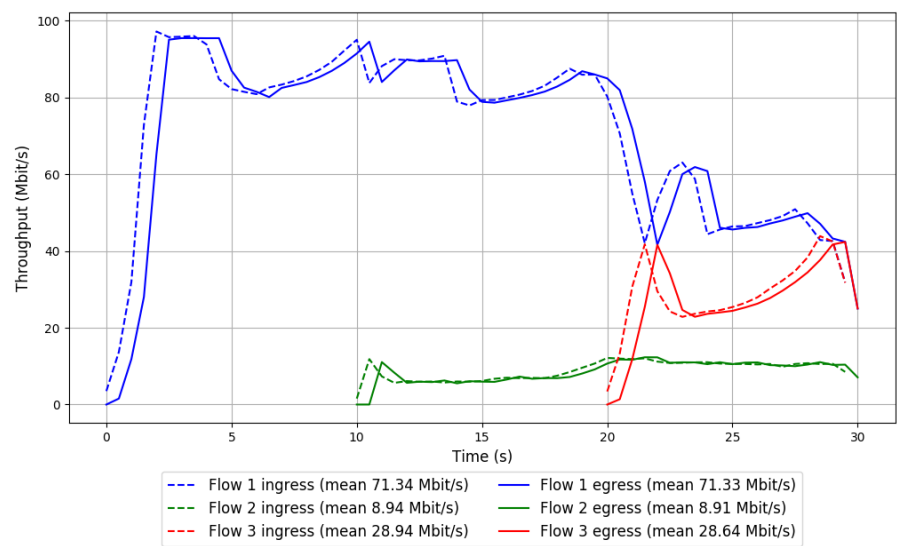


Run 2: Statistics of PCC-Expr

Start at: 2018-07-04 11:13:01  
End at: 2018-07-04 11:13:31  
Local clock offset: -3.88 ms  
Remote clock offset: 12.856 ms

# Below is generated by plot.py at 2018-07-04 14:38:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.58 Mbit/s  
95th percentile per-packet one-way delay: 106.865 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 71.33 Mbit/s  
95th percentile per-packet one-way delay: 97.498 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 8.91 Mbit/s  
95th percentile per-packet one-way delay: 134.562 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 28.64 Mbit/s  
95th percentile per-packet one-way delay: 106.293 ms  
Loss rate: 2.77%

Run 2: Report of PCC-Expr — Data Link

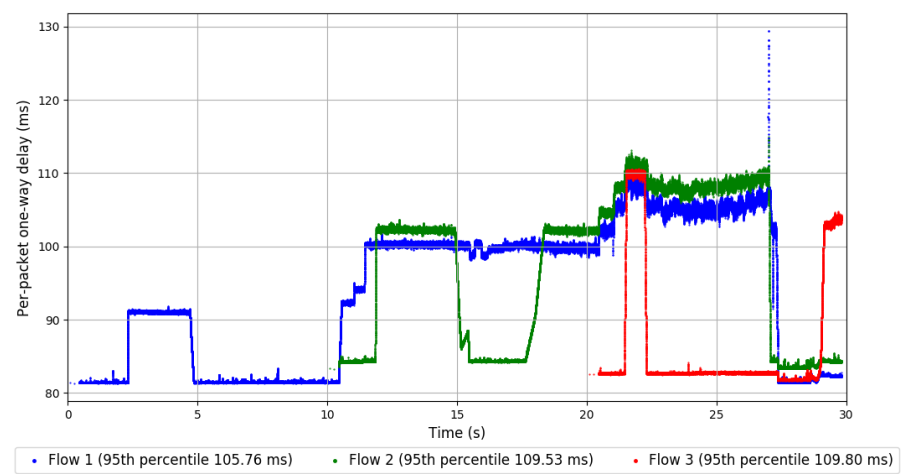
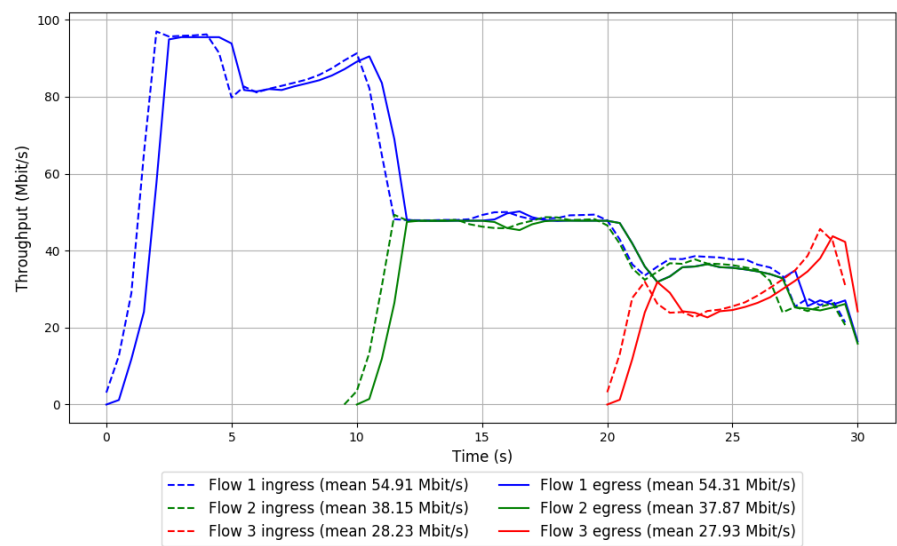


Run 3: Statistics of PCC-Expr

Start at: 2018-07-04 11:34:13  
End at: 2018-07-04 11:34:43  
Local clock offset: -7.778 ms  
Remote clock offset: 11.708 ms

# Below is generated by plot.py at 2018-07-04 14:38:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.56 Mbit/s  
95th percentile per-packet one-way delay: 108.392 ms  
Loss rate: 1.74%  
-- Flow 1:  
Average throughput: 54.31 Mbit/s  
95th percentile per-packet one-way delay: 105.756 ms  
Loss rate: 1.64%  
-- Flow 2:  
Average throughput: 37.87 Mbit/s  
95th percentile per-packet one-way delay: 109.525 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 27.93 Mbit/s  
95th percentile per-packet one-way delay: 109.801 ms  
Loss rate: 2.79%

Run 3: Report of PCC-Expr — Data Link



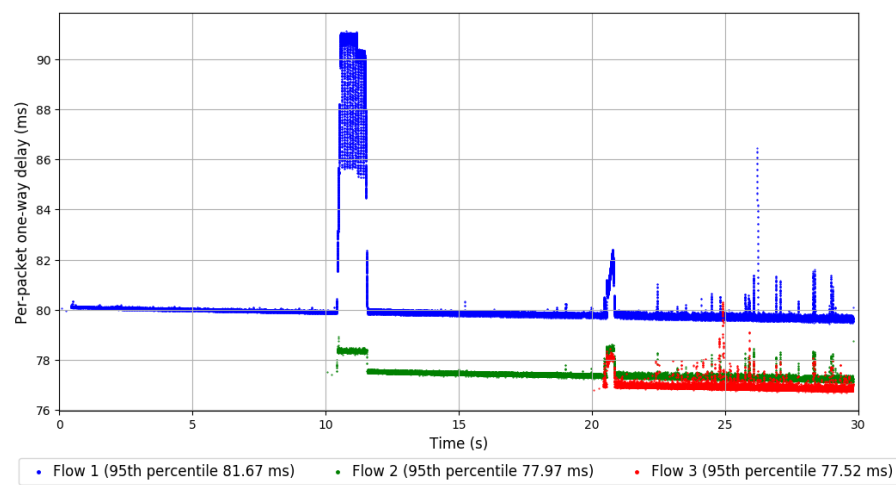
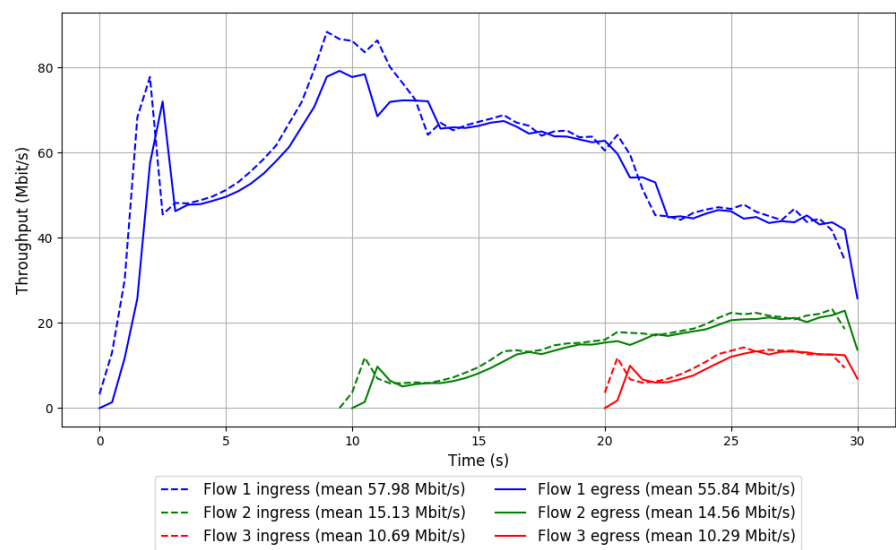
Run 4: Statistics of PCC-Expr

Start at: 2018-07-04 11:55:41  
End at: 2018-07-04 11:56:11  
Local clock offset: -2.37 ms  
Remote clock offset: 15.491 ms

# Below is generated by plot.py at 2018-07-04 14:38:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.86 Mbit/s  
95th percentile per-packet one-way delay: 80.127 ms  
Loss rate: 4.35%  
-- Flow 1:  
Average throughput: 55.84 Mbit/s  
95th percentile per-packet one-way delay: 81.672 ms  
Loss rate: 4.24%  
-- Flow 2:  
Average throughput: 14.56 Mbit/s  
95th percentile per-packet one-way delay: 77.967 ms  
Loss rate: 4.63%  
-- Flow 3:  
Average throughput: 10.29 Mbit/s  
95th percentile per-packet one-way delay: 77.524 ms  
Loss rate: 5.36%



Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-04 12:17:01

End at: 2018-07-04 12:17:31

Local clock offset: -2.078 ms

Remote clock offset: 2.912 ms

# Below is generated by plot.py at 2018-07-04 14:39:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.57 Mbit/s

95th percentile per-packet one-way delay: 109.739 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 54.35 Mbit/s

95th percentile per-packet one-way delay: 107.723 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 41.80 Mbit/s

95th percentile per-packet one-way delay: 109.737 ms

Loss rate: 1.11%

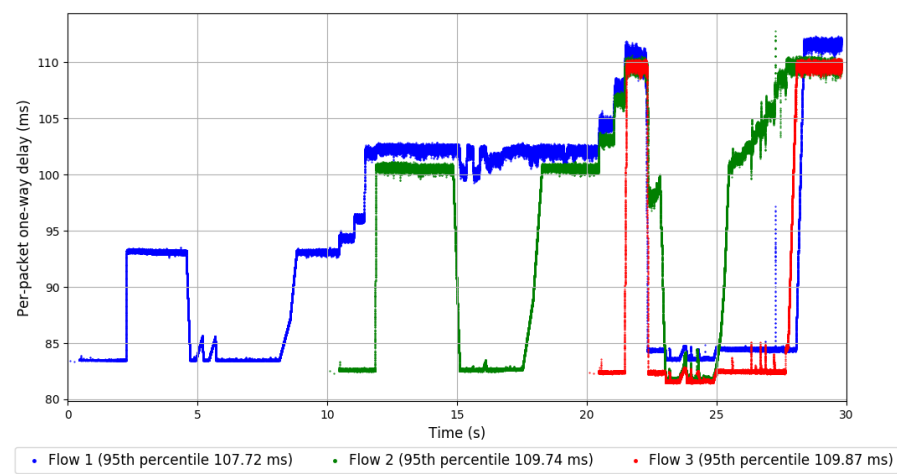
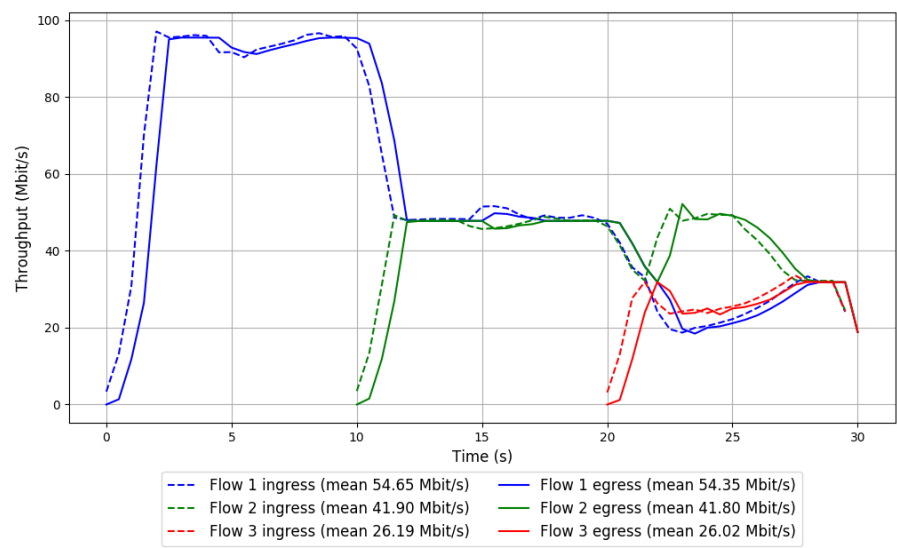
-- Flow 3:

Average throughput: 26.02 Mbit/s

95th percentile per-packet one-way delay: 109.869 ms

Loss rate: 2.44%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-04 12:38:31

End at: 2018-07-04 12:39:01

Local clock offset: -2.728 ms

Remote clock offset: 2.824 ms

# Below is generated by plot.py at 2018-07-04 14:39:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.53 Mbit/s

95th percentile per-packet one-way delay: 112.288 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 112.719 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 37.76 Mbit/s

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

Loss rate: 1.47%

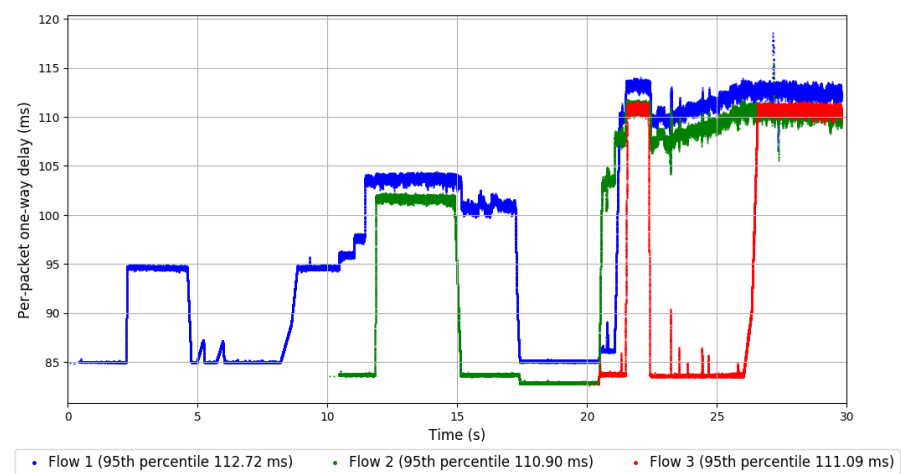
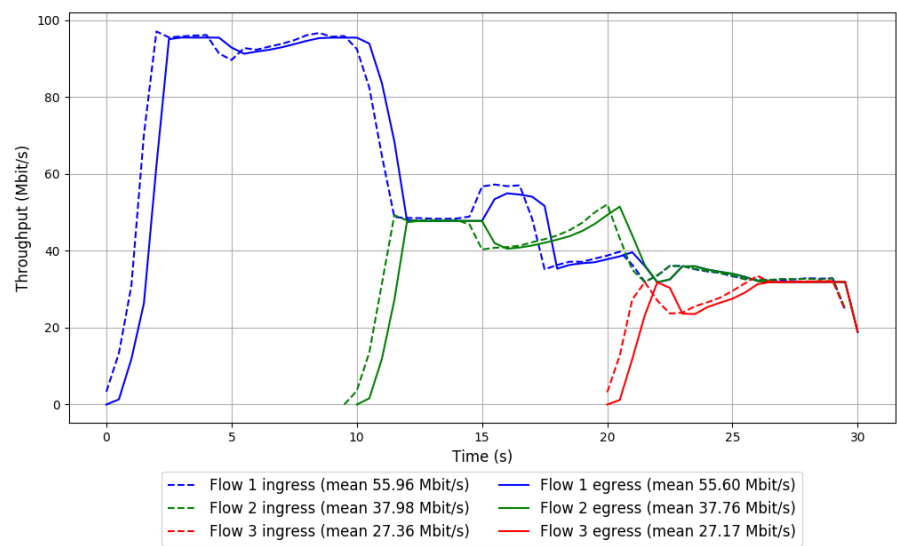
-- Flow 3:

Average throughput: 27.17 Mbit/s

95th percentile per-packet one-way delay: 111.088 ms

Loss rate: 2.54%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-04 12:59:48

End at: 2018-07-04 13:00:18

Local clock offset: -2.442 ms

Remote clock offset: 9.839 ms

# Below is generated by plot.py at 2018-07-04 14:39:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.02 Mbit/s

95th percentile per-packet one-way delay: 79.082 ms

Loss rate: 5.75%

-- Flow 1:

Average throughput: 60.77 Mbit/s

95th percentile per-packet one-way delay: 79.106 ms

Loss rate: 5.75%

-- Flow 2:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 76.586 ms

Loss rate: 5.82%

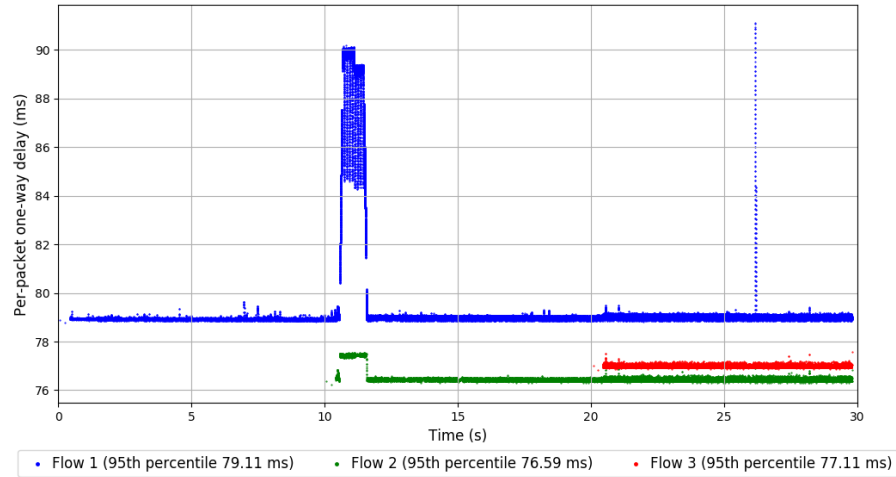
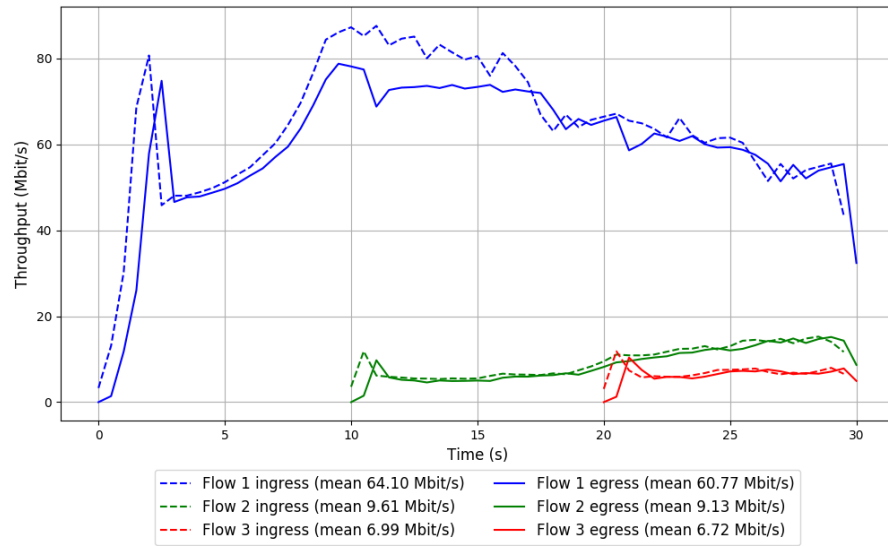
-- Flow 3:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 77.107 ms

Loss rate: 5.56%

# Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-04 13:21:10

End at: 2018-07-04 13:21:40

Local clock offset: -5.955 ms

Remote clock offset: 7.598 ms

# Below is generated by plot.py at 2018-07-04 14:39:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.62 Mbit/s

95th percentile per-packet one-way delay: 79.651 ms

Loss rate: 5.07%

-- Flow 1:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 79.729 ms

Loss rate: 4.84%

-- Flow 2:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 79.741 ms

Loss rate: 5.95%

-- Flow 3:

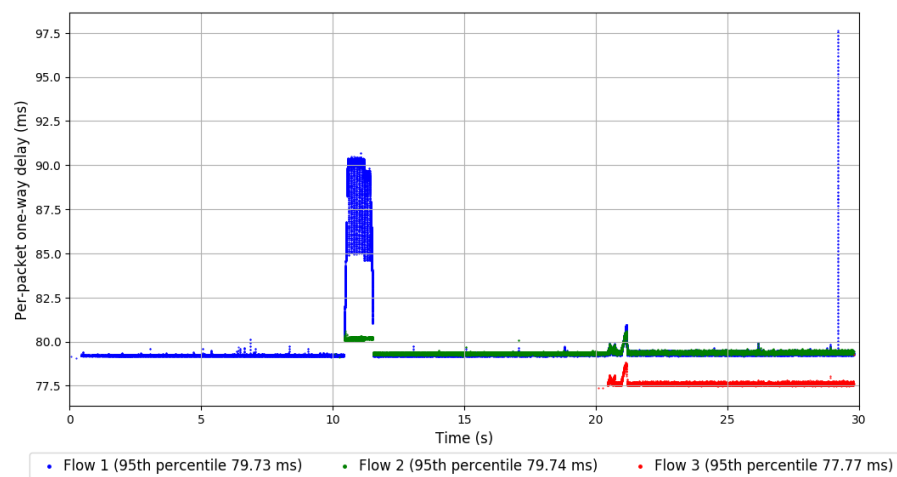
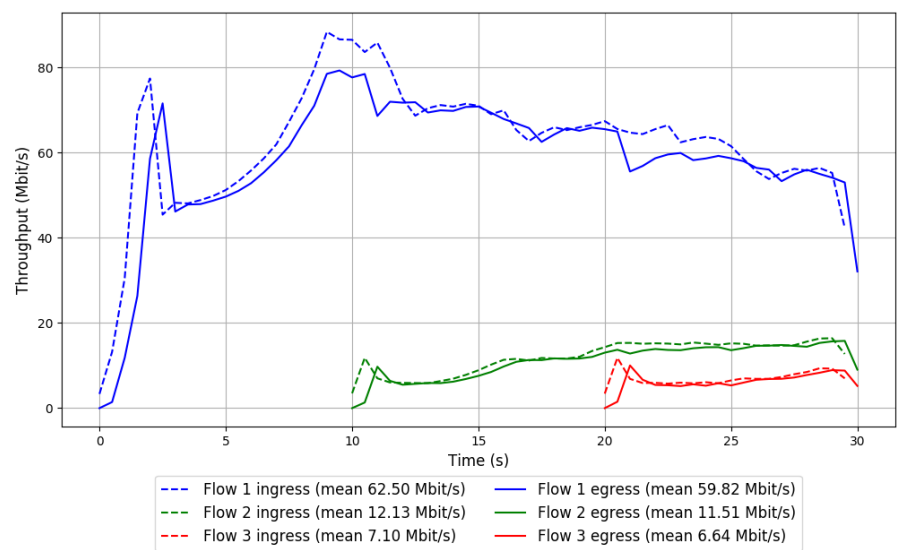
Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 77.774 ms

Loss rate: 7.98%



Run 8: Report of PCC-Expr — Data Link

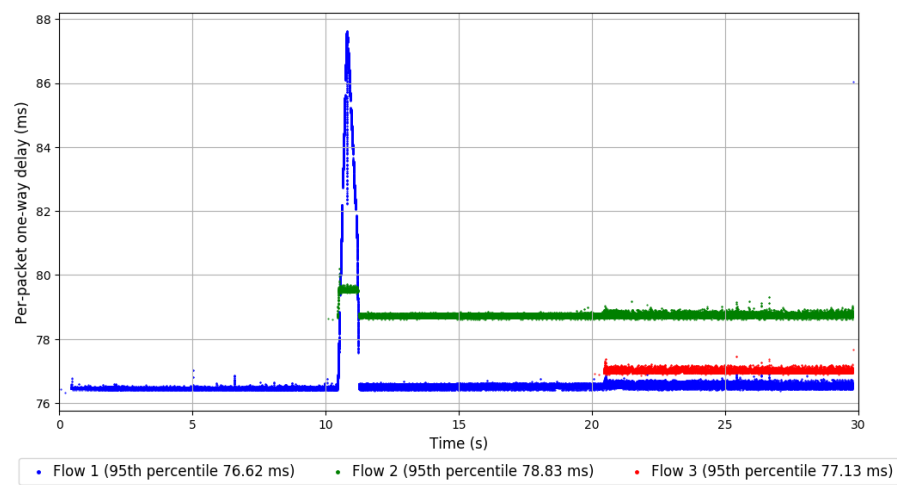
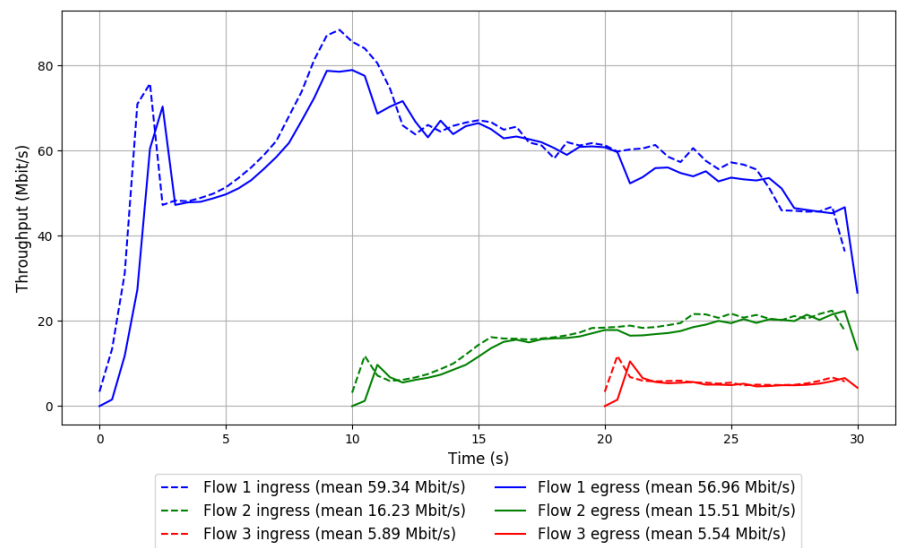


Run 9: Statistics of PCC-Expr

Start at: 2018-07-04 13:42:45  
End at: 2018-07-04 13:43:15  
Local clock offset: -6.487 ms  
Remote clock offset: 11.734 ms

# Below is generated by plot.py at 2018-07-04 14:40:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.05 Mbit/s  
95th percentile per-packet one-way delay: 78.789 ms  
Loss rate: 4.75%  
-- Flow 1:  
Average throughput: 56.96 Mbit/s  
95th percentile per-packet one-way delay: 76.620 ms  
Loss rate: 4.57%  
-- Flow 2:  
Average throughput: 15.51 Mbit/s  
95th percentile per-packet one-way delay: 78.833 ms  
Loss rate: 5.27%  
-- Flow 3:  
Average throughput: 5.54 Mbit/s  
95th percentile per-packet one-way delay: 77.127 ms  
Loss rate: 7.64%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-04 14:04:14

End at: 2018-07-04 14:04:44

Local clock offset: -2.459 ms

Remote clock offset: 10.74 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.33 Mbit/s

95th percentile per-packet one-way delay: 112.788 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 110.727 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 113.281 ms

Loss rate: 1.39%

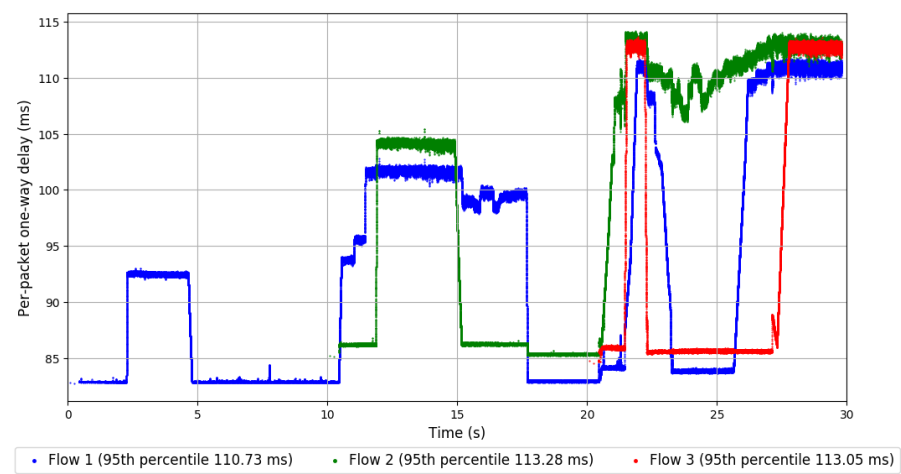
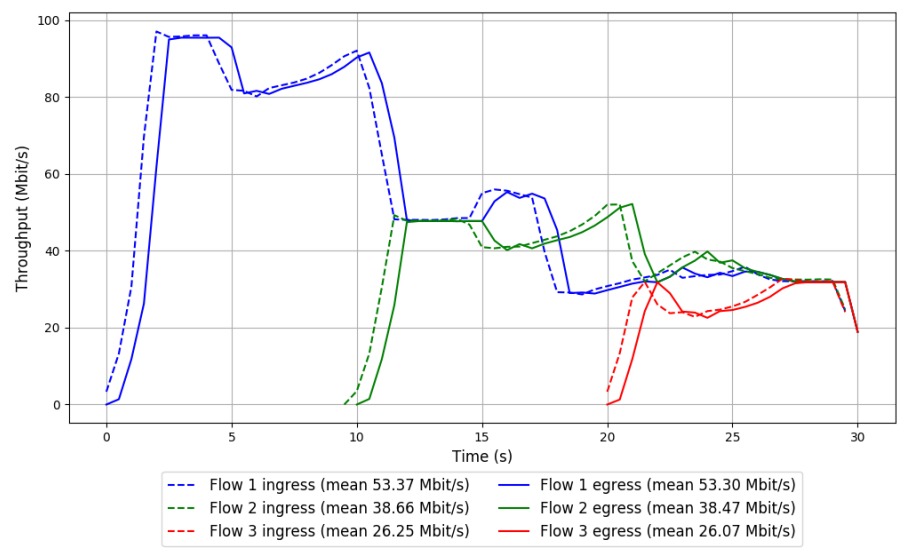
-- Flow 3:

Average throughput: 26.07 Mbit/s

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

Loss rate: 2.46%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-04 10:55:39

End at: 2018-07-04 10:56:09

Local clock offset: -2.561 ms

Remote clock offset: 7.806 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 107.662 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 106.888 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 21.88 Mbit/s

95th percentile per-packet one-way delay: 115.585 ms

Loss rate: 1.45%

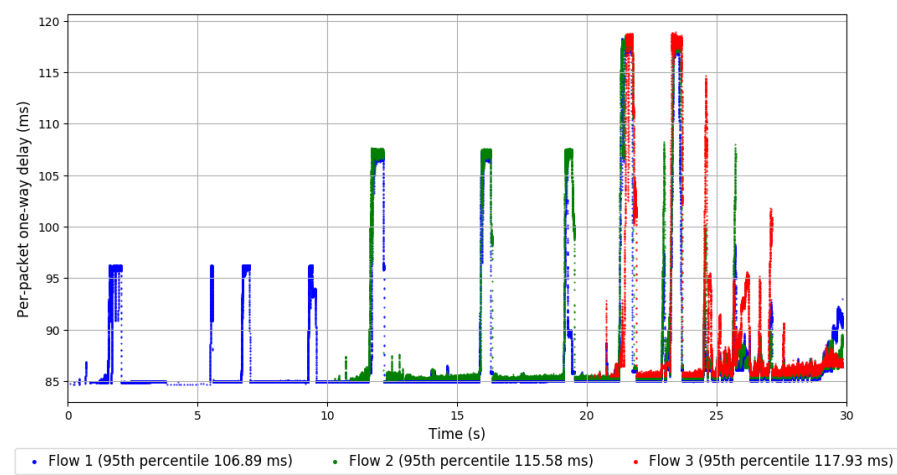
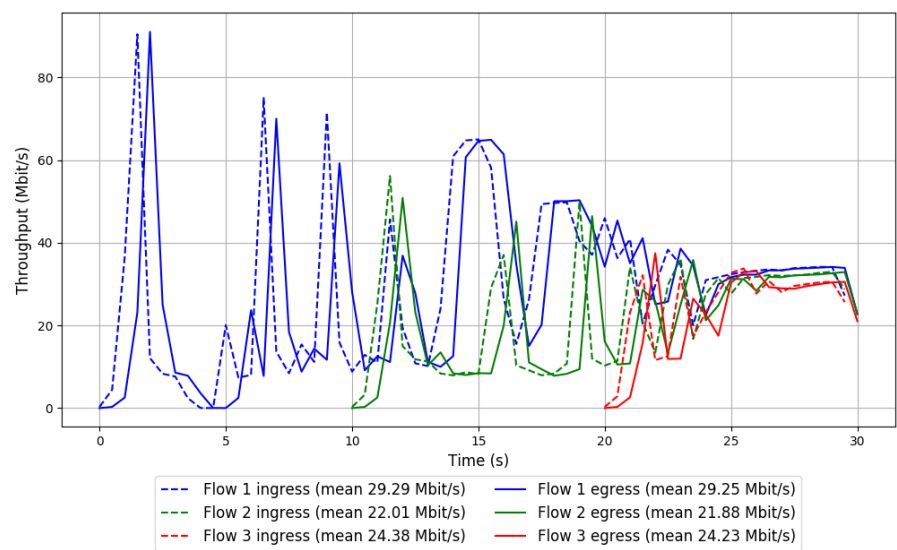
-- Flow 3:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 117.930 ms

Loss rate: 2.26%

Run 1: Report of QUIC Cubic — Data Link



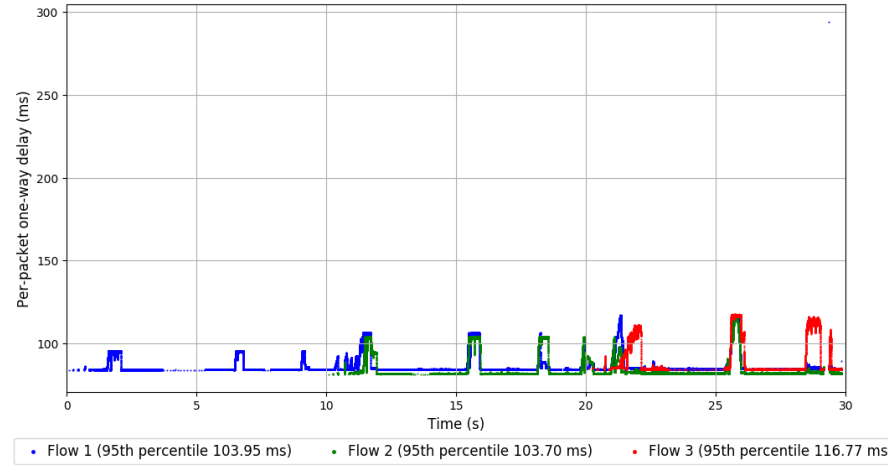
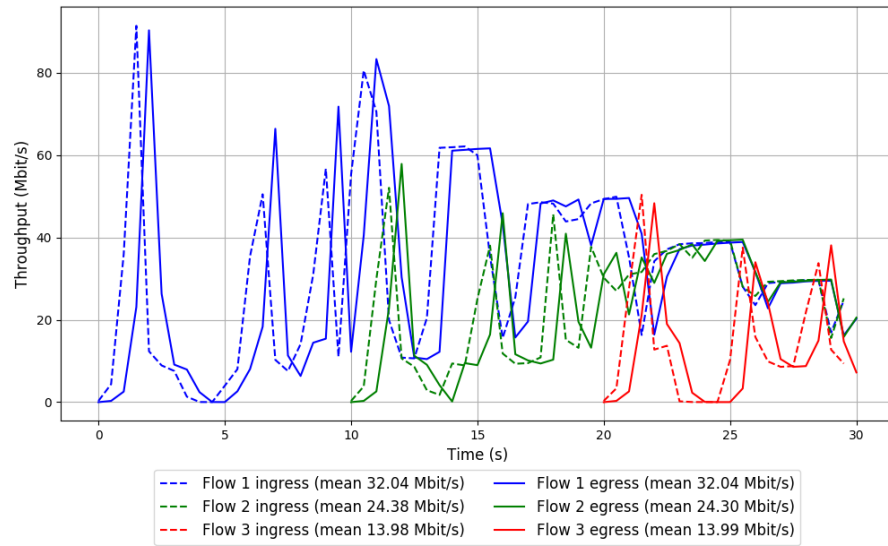
Run 2: Statistics of QUIC Cubic

Start at: 2018-07-04 11:16:50  
End at: 2018-07-04 11:17:20  
Local clock offset: -5.183 ms  
Remote clock offset: 13.452 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.74 Mbit/s  
95th percentile per-packet one-way delay: 106.227 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 32.04 Mbit/s  
95th percentile per-packet one-way delay: 103.954 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 24.30 Mbit/s  
95th percentile per-packet one-way delay: 103.698 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 13.99 Mbit/s  
95th percentile per-packet one-way delay: 116.766 ms  
Loss rate: 1.66%



## Run 2: Report of QUIC Cubic — Data Link

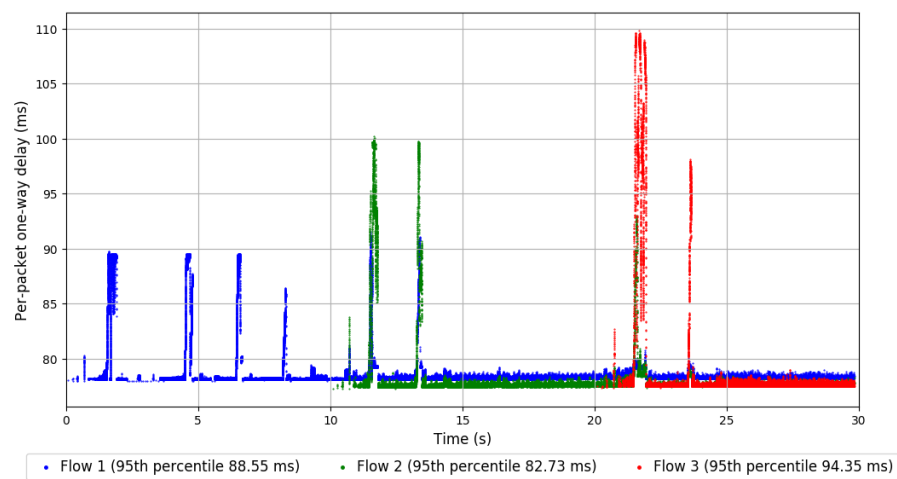
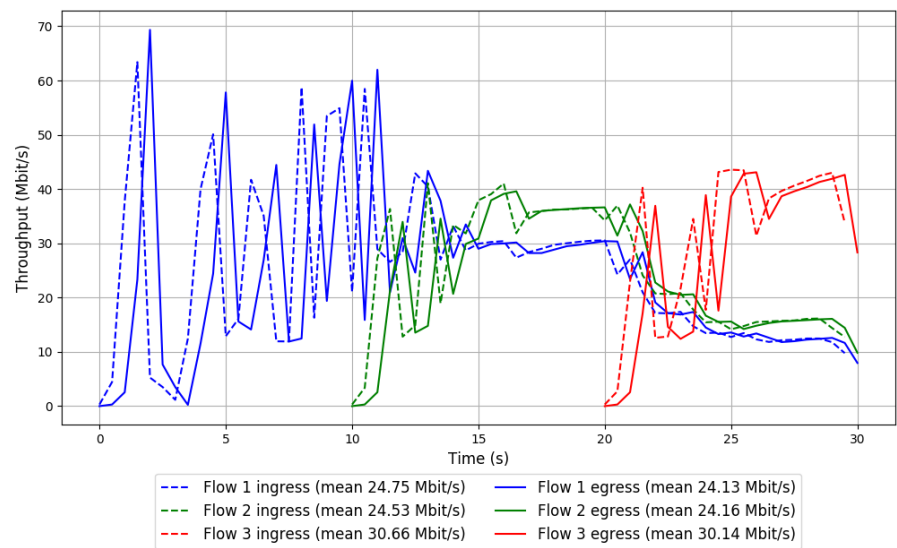


Run 3: Statistics of QUIC Cubic

Start at: 2018-07-04 11:38:14  
End at: 2018-07-04 11:38:44  
Local clock offset: -8.109 ms  
Remote clock offset: 15.569 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.00 Mbit/s  
95th percentile per-packet one-way delay: 88.284 ms  
Loss rate: 2.88%  
-- Flow 1:  
Average throughput: 24.13 Mbit/s  
95th percentile per-packet one-way delay: 88.552 ms  
Loss rate: 3.01%  
-- Flow 2:  
Average throughput: 24.16 Mbit/s  
95th percentile per-packet one-way delay: 82.729 ms  
Loss rate: 2.37%  
-- Flow 3:  
Average throughput: 30.14 Mbit/s  
95th percentile per-packet one-way delay: 94.351 ms  
Loss rate: 3.37%

Run 3: Report of QUIC Cubic — Data Link

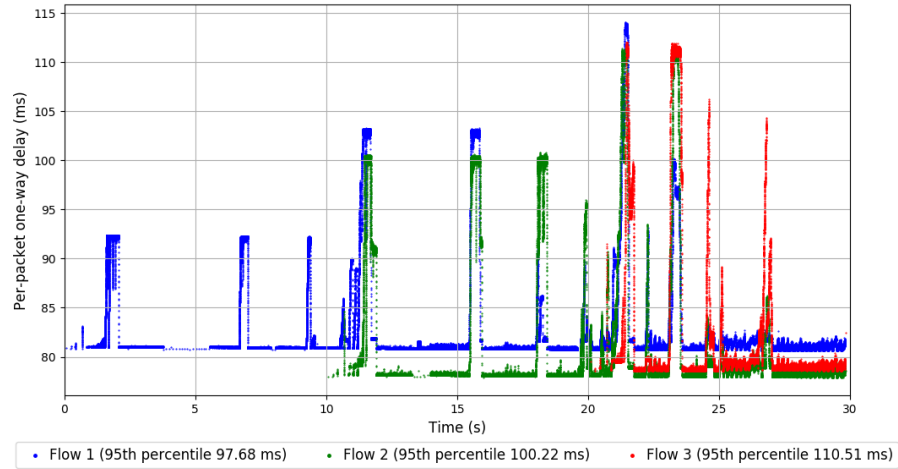
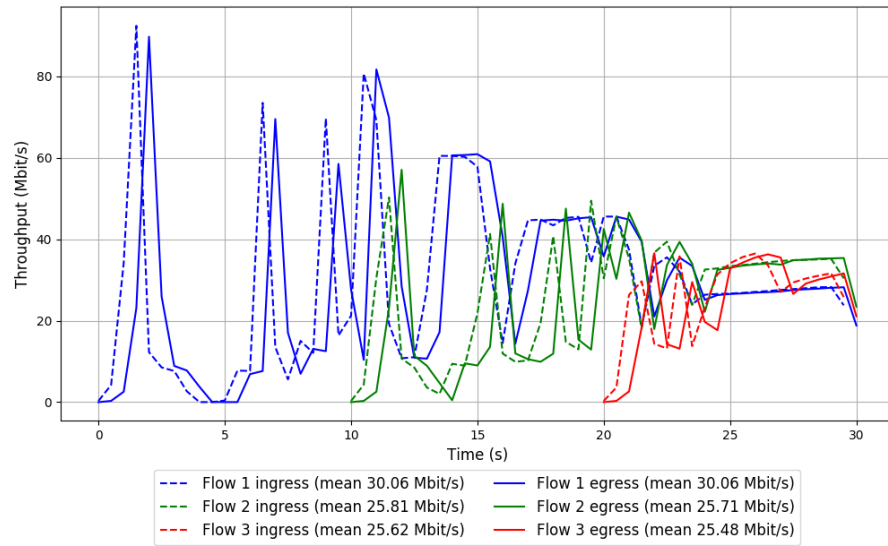


Run 4: Statistics of QUIC Cubic

Start at: 2018-07-04 11:59:34  
End at: 2018-07-04 12:00:04  
Local clock offset: -1.942 ms  
Remote clock offset: 11.287 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.45 Mbit/s  
95th percentile per-packet one-way delay: 100.282 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 30.06 Mbit/s  
95th percentile per-packet one-way delay: 97.677 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 25.71 Mbit/s  
95th percentile per-packet one-way delay: 100.222 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 25.48 Mbit/s  
95th percentile per-packet one-way delay: 110.511 ms  
Loss rate: 2.17%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-04 12:20:54

End at: 2018-07-04 12:21:24

Local clock offset: -2.292 ms

Remote clock offset: 2.406 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 52.47 Mbit/s

95th percentile per-packet one-way delay: 106.215 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 105.909 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 24.52 Mbit/s

95th percentile per-packet one-way delay: 106.248 ms

Loss rate: 1.18%

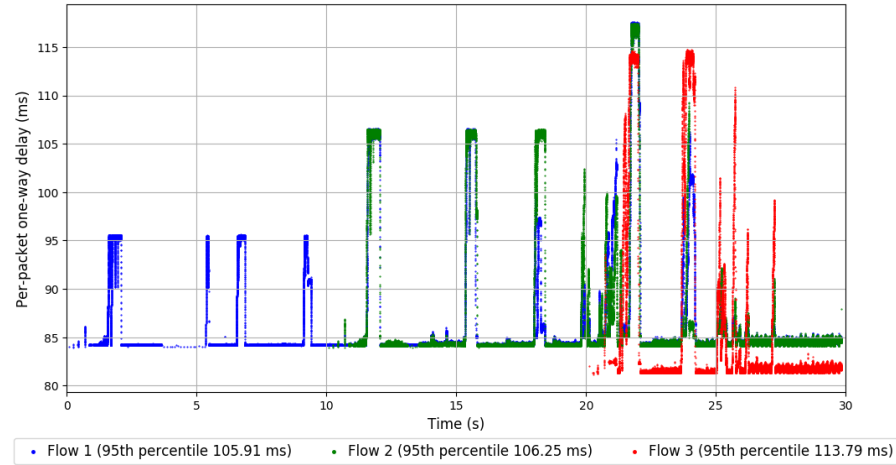
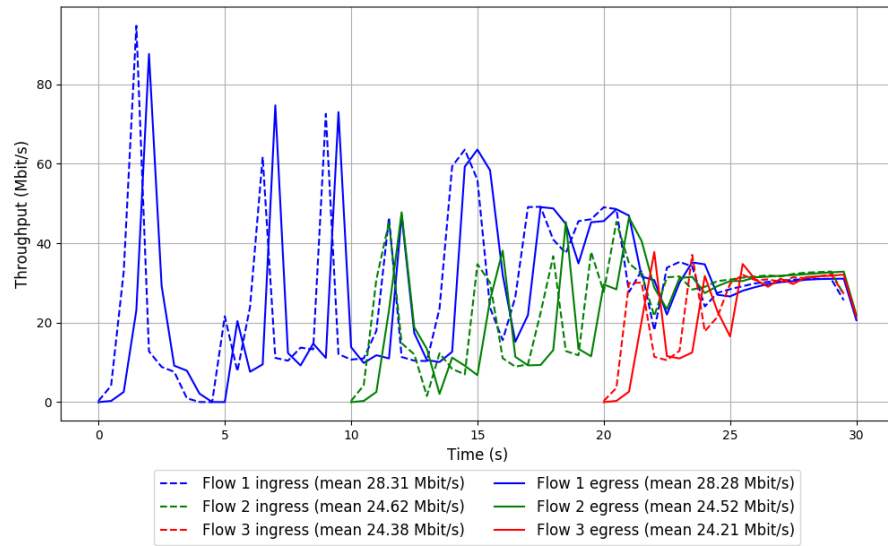
-- Flow 3:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 113.790 ms

Loss rate: 2.32%

## Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-04 12:42:23

End at: 2018-07-04 12:42:53

Local clock offset: -2.614 ms

Remote clock offset: 3.175 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 46.01 Mbit/s

95th percentile per-packet one-way delay: 104.638 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 27.08 Mbit/s

95th percentile per-packet one-way delay: 96.393 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 106.493 ms

Loss rate: 1.72%

-- Flow 3:

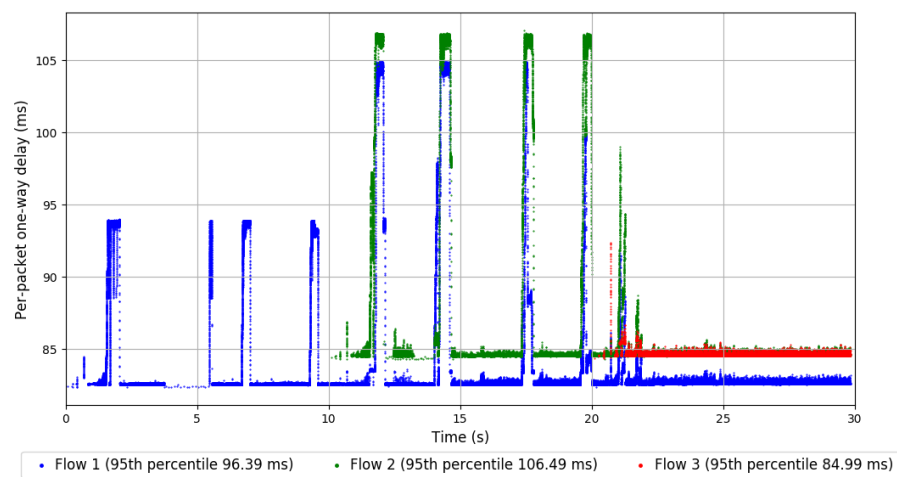
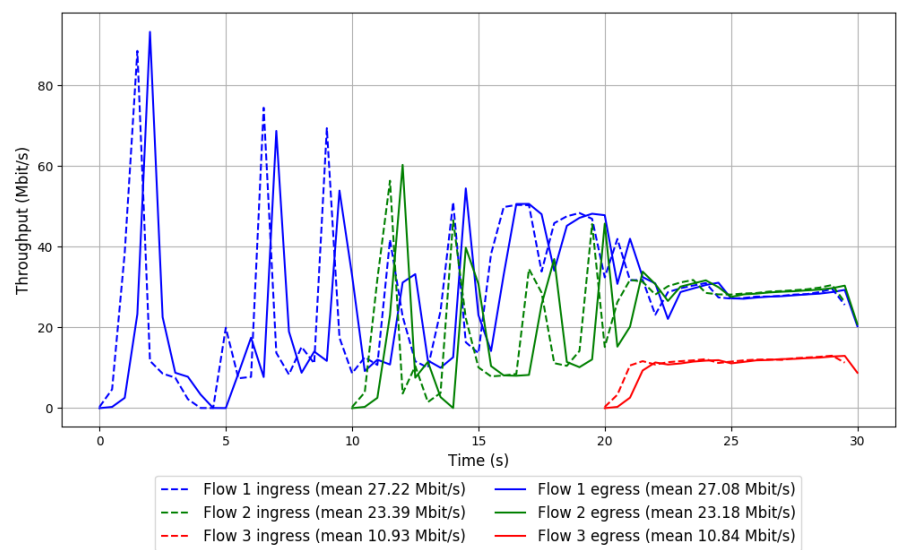
Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 84.993 ms

Loss rate: 2.51%



Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-04 13:03:47

End at: 2018-07-04 13:04:17

Local clock offset: -2.346 ms

Remote clock offset: 4.78 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 93.168 ms

Loss rate: 3.27%

-- Flow 1:

Average throughput: 26.78 Mbit/s

95th percentile per-packet one-way delay: 93.069 ms

Loss rate: 3.14%

-- Flow 2:

Average throughput: 23.08 Mbit/s

95th percentile per-packet one-way delay: 97.863 ms

Loss rate: 3.74%

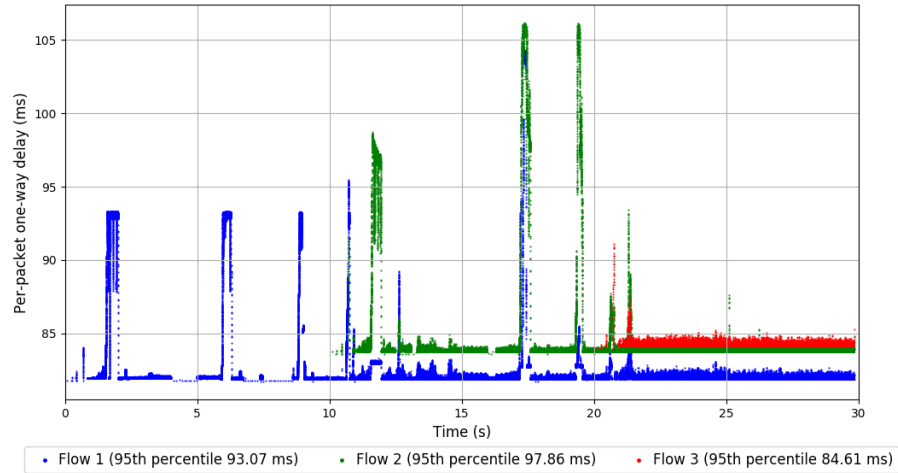
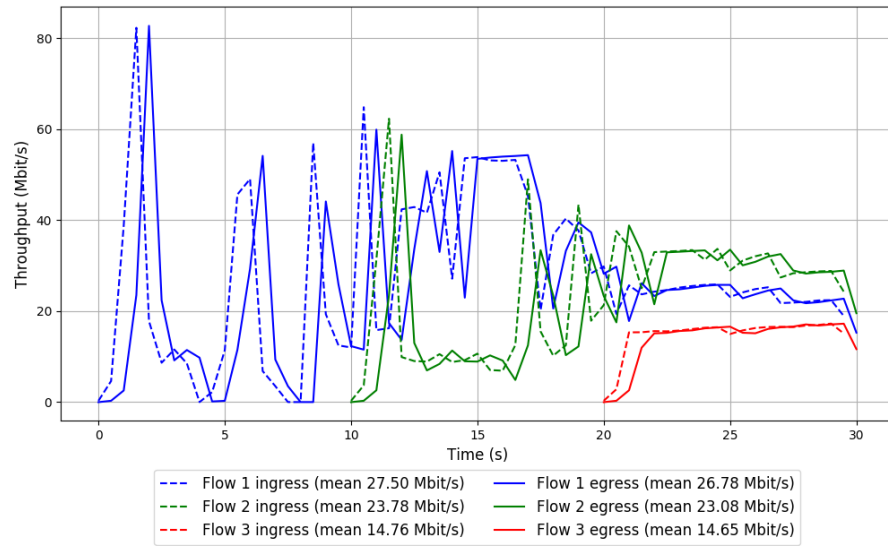
-- Flow 3:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 84.608 ms

Loss rate: 2.45%

## Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-04 13:25:03

End at: 2018-07-04 13:25:33

Local clock offset: -6.504 ms

Remote clock offset: 7.373 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 45.97 Mbit/s

95th percentile per-packet one-way delay: 95.067 ms

Loss rate: 3.60%

-- Flow 1:

Average throughput: 22.74 Mbit/s

95th percentile per-packet one-way delay: 91.144 ms

Loss rate: 3.99%

-- Flow 2:

Average throughput: 23.74 Mbit/s

95th percentile per-packet one-way delay: 99.967 ms

Loss rate: 3.60%

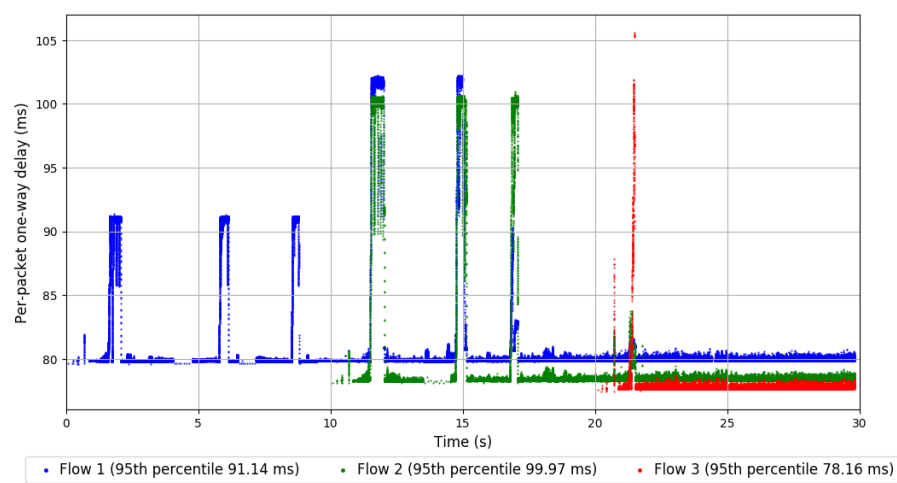
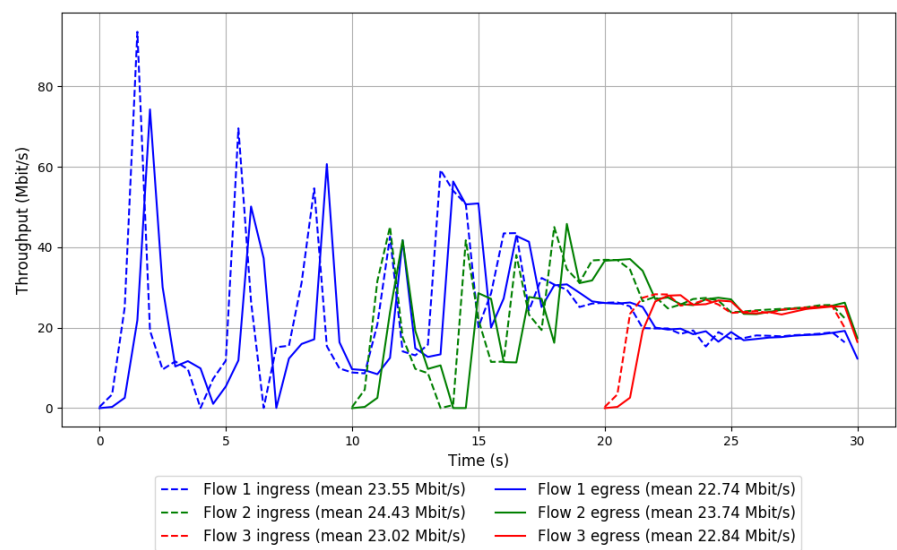
-- Flow 3:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 78.160 ms

Loss rate: 2.40%

Run 8: Report of QUIC Cubic — Data Link

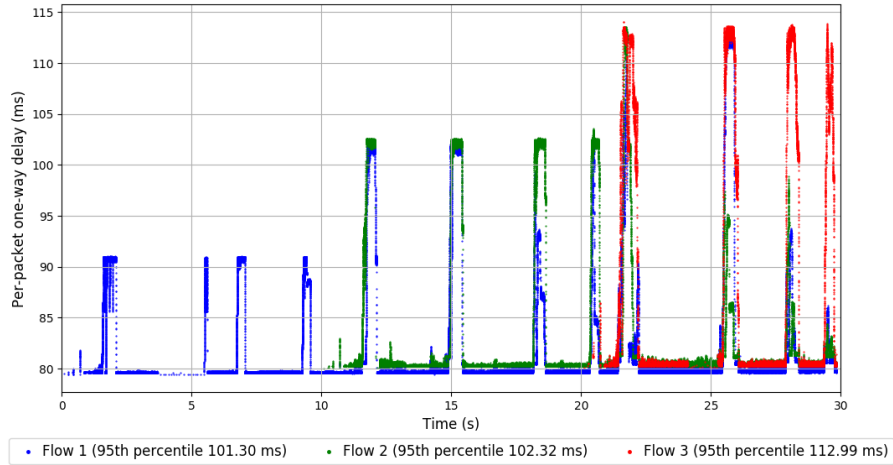
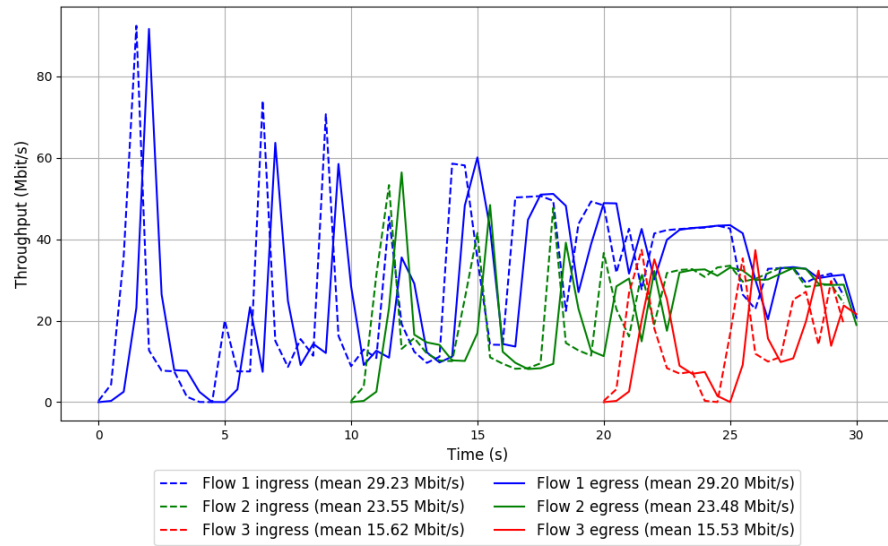


Run 9: Statistics of QUIC Cubic

Start at: 2018-07-04 13:46:47  
End at: 2018-07-04 13:47:17  
Local clock offset: -5.021 ms  
Remote clock offset: 12.284 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.85 Mbit/s  
95th percentile per-packet one-way delay: 103.190 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 29.20 Mbit/s  
95th percentile per-packet one-way delay: 101.300 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 23.48 Mbit/s  
95th percentile per-packet one-way delay: 102.319 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 15.53 Mbit/s  
95th percentile per-packet one-way delay: 112.992 ms  
Loss rate: 2.32%

## Run 9: Report of QUIC Cubic — Data Link



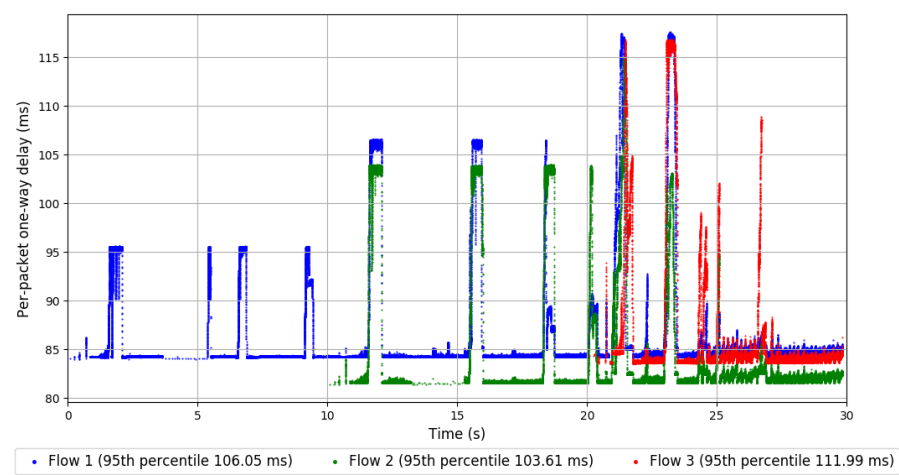
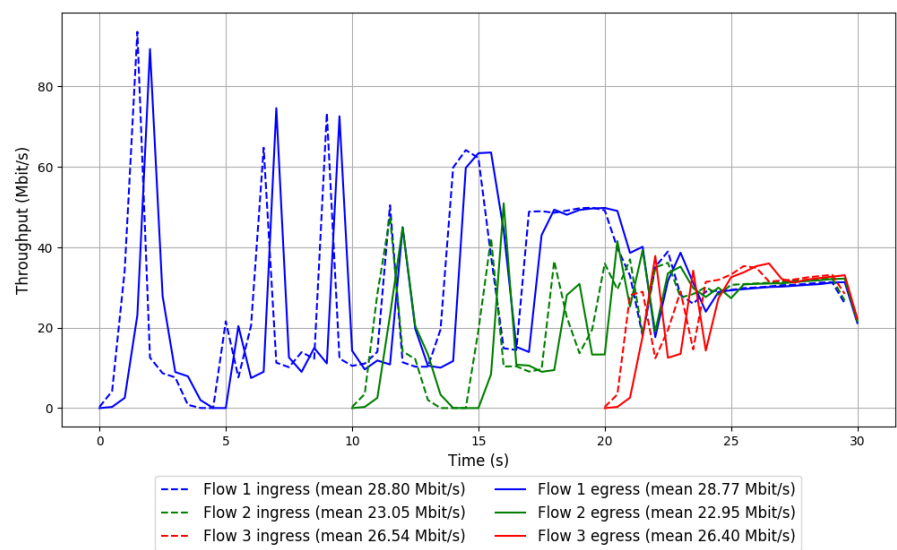
Run 10: Statistics of QUIC Cubic

Start at: 2018-07-04 14:08:05  
End at: 2018-07-04 14:08:35  
Local clock offset: -2.196 ms  
Remote clock offset: 12.305 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.63 Mbit/s  
95th percentile per-packet one-way delay: 105.267 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 28.77 Mbit/s  
95th percentile per-packet one-way delay: 106.046 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 22.95 Mbit/s  
95th percentile per-packet one-way delay: 103.608 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 26.40 Mbit/s  
95th percentile per-packet one-way delay: 111.986 ms  
Loss rate: 2.16%



Run 10: Report of QUIC Cubic — Data Link

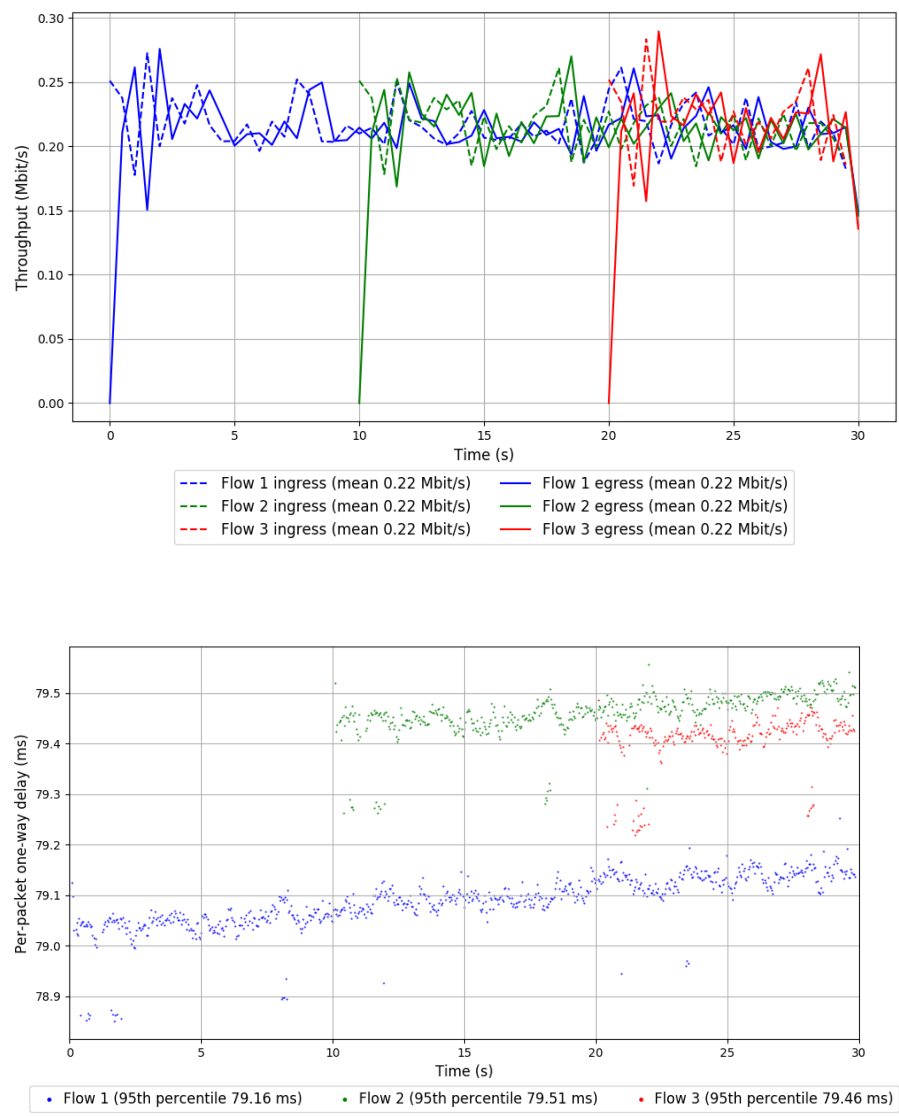


```
Run 1: Statistics of SReAM

Start at: 2018-07-04 10:59:22
End at: 2018-07-04 10:59:52
Local clock offset: -2.59 ms
Remote clock offset: 15.007 ms

# Below is generated by plot.py at 2018-07-04 14:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.495 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.155 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.508 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.456 ms
Loss rate: 1.85%
```

Run 1: Report of SReAM — Data Link

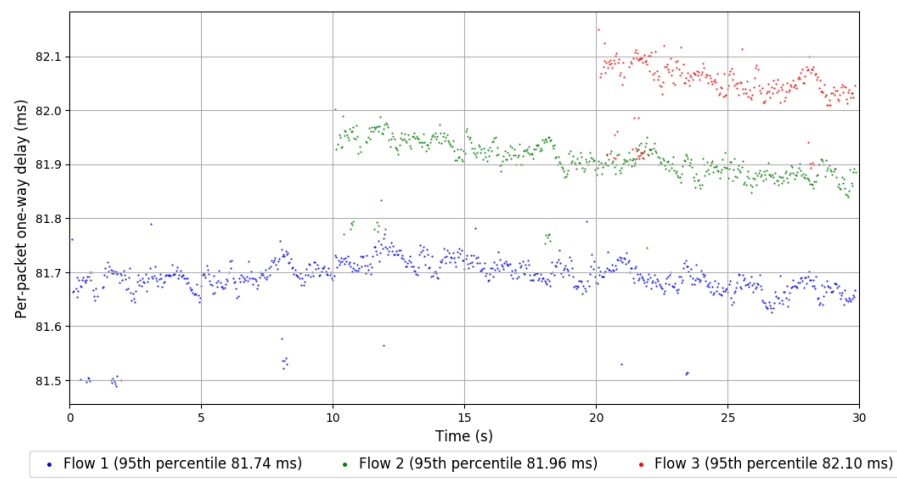
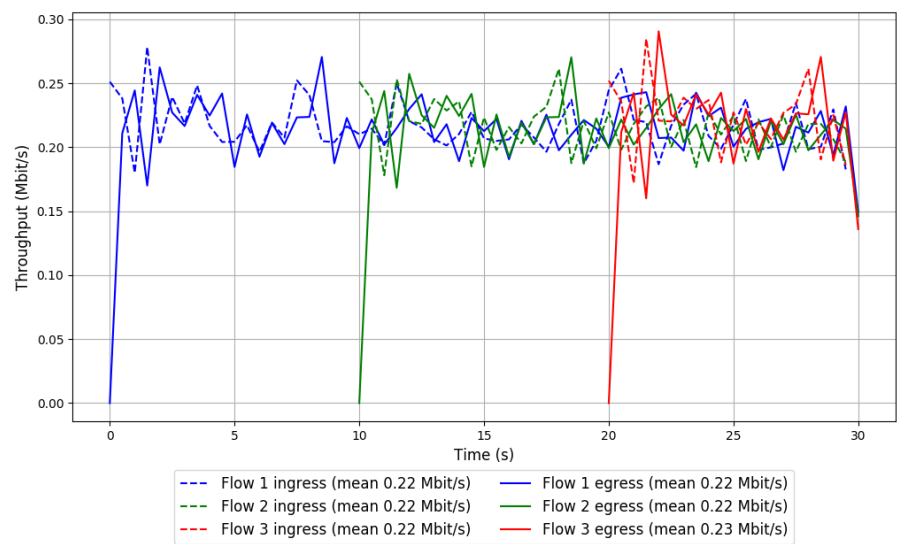


Run 2: Statistics of SReAM

Start at: 2018-07-04 11:20:34  
End at: 2018-07-04 11:21:04  
Local clock offset: -6.136 ms  
Remote clock offset: 14.075 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 82.070 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.736 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.960 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 82.101 ms  
Loss rate: 1.85%

Run 2: Report of SReAM — Data Link

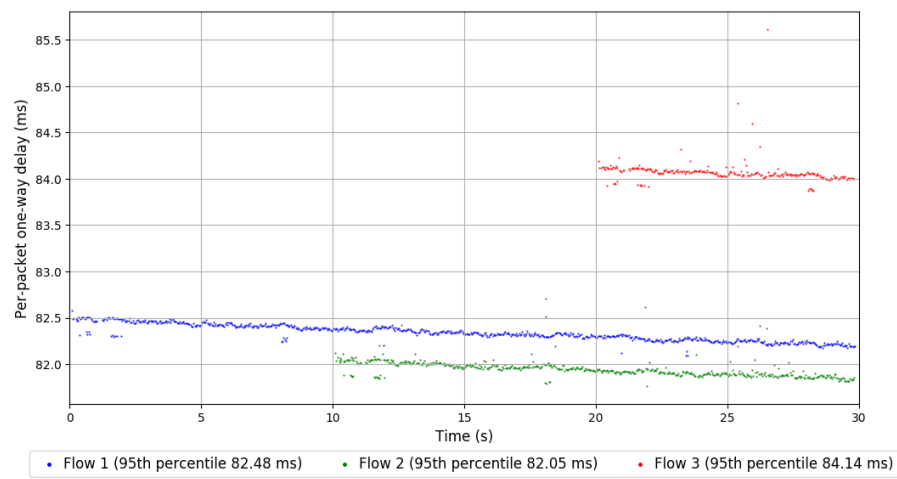
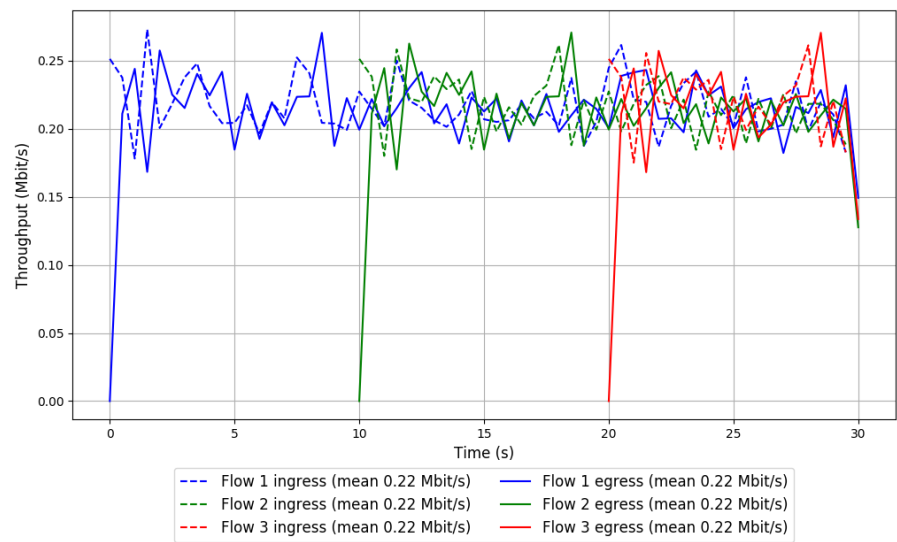


Run 3: Statistics of SReAM

Start at: 2018-07-04 11:41:59  
End at: 2018-07-04 11:42:29  
Local clock offset: -7.093 ms  
Remote clock offset: 10.586 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 84.083 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 82.481 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 82.050 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.137 ms  
Loss rate: 1.84%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-04 12:03:20

End at: 2018-07-04 12:03:50

Local clock offset: -1.572 ms

Remote clock offset: 5.297 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.23 Mbit/s

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

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 84.738 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 84.457 ms

Loss rate: 0.62%

-- Flow 3:

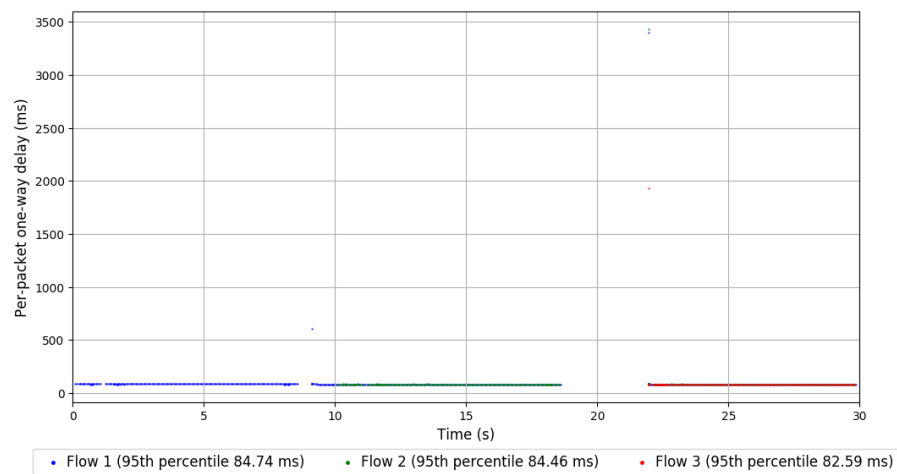
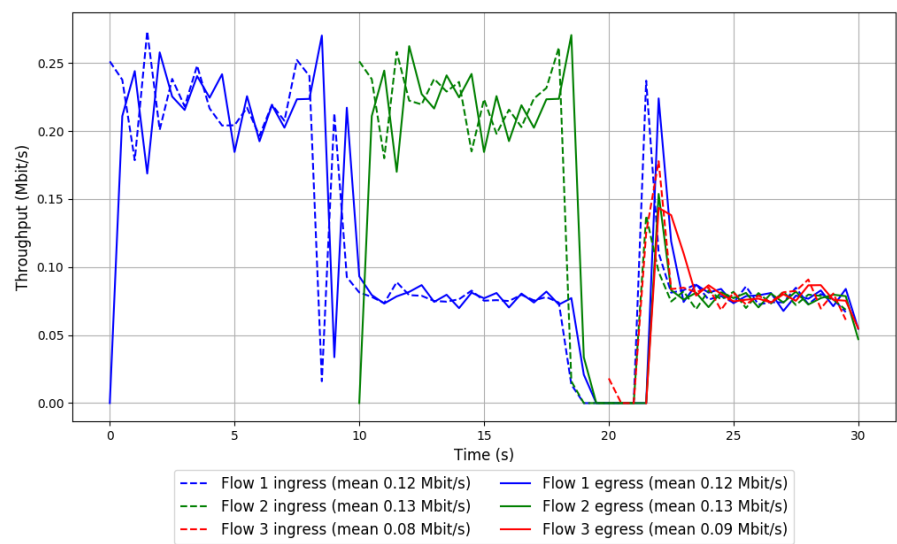
Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 82.589 ms

Loss rate: 1.61%



Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-04 12:24:39

End at: 2018-07-04 12:25:09

Local clock offset: -2.46 ms

Remote clock offset: 0.884 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 85.203 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.500 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.221 ms

Loss rate: 0.82%

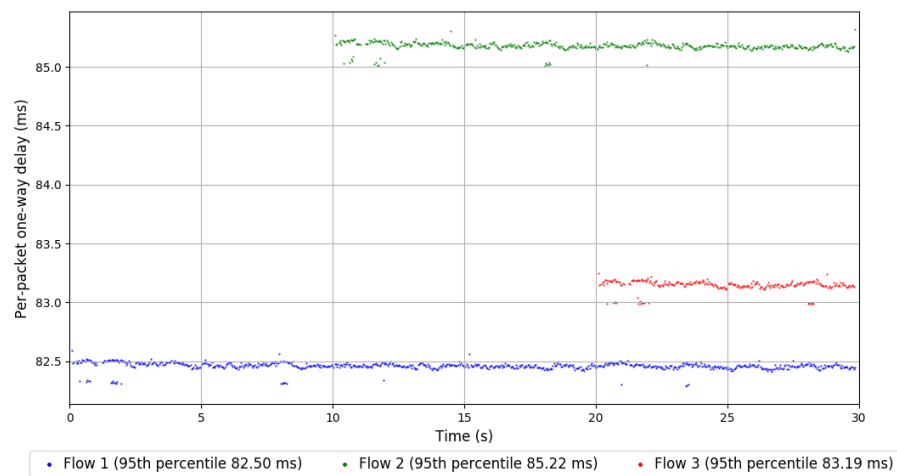
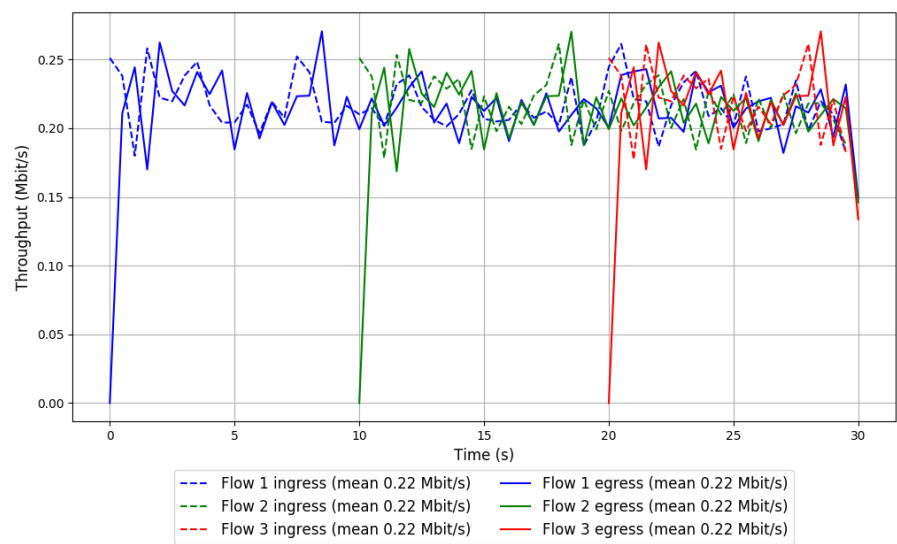
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.189 ms

Loss rate: 1.84%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-04 12:46:05

End at: 2018-07-04 12:46:35

Local clock offset: -2.556 ms

Remote clock offset: 9.468 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 79.340 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.346 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.310 ms

Loss rate: 1.04%

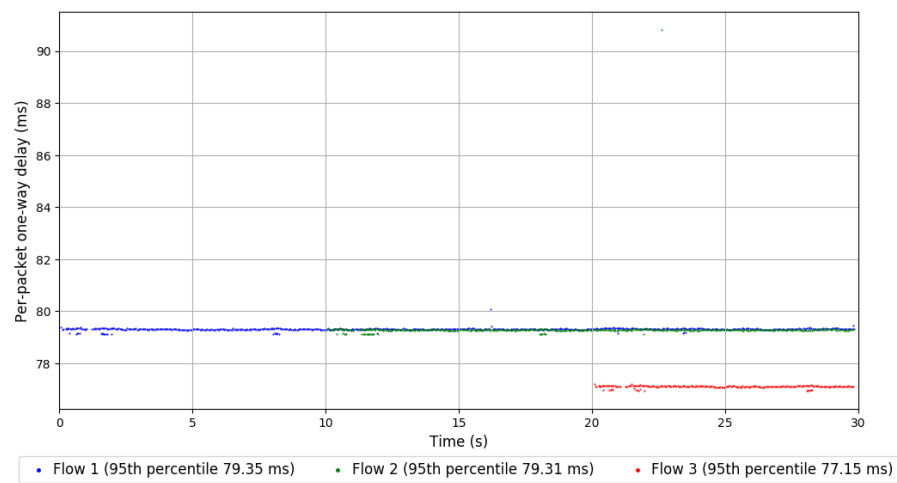
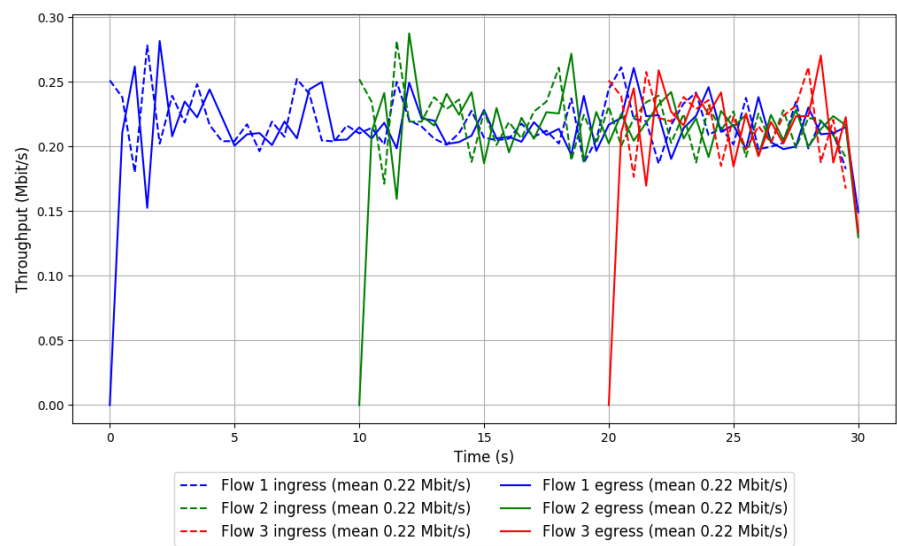
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.148 ms

Loss rate: 1.50%

Run 6: Report of SReAM — Data Link

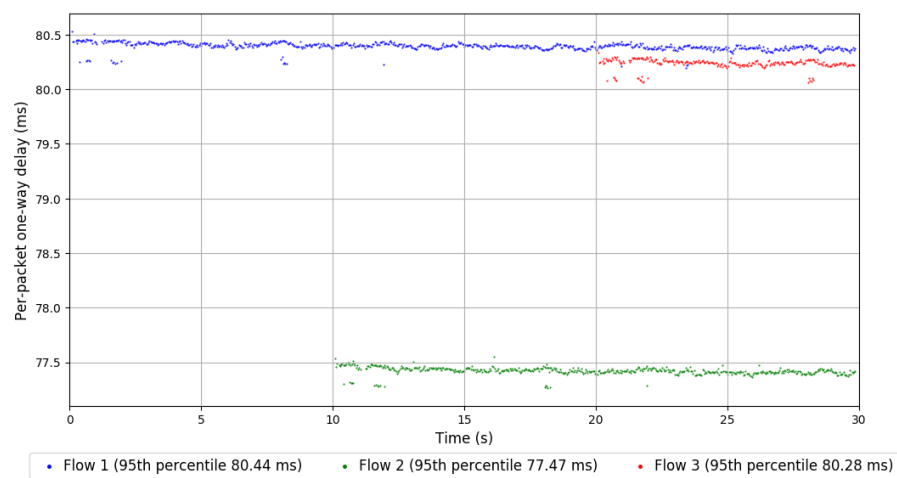
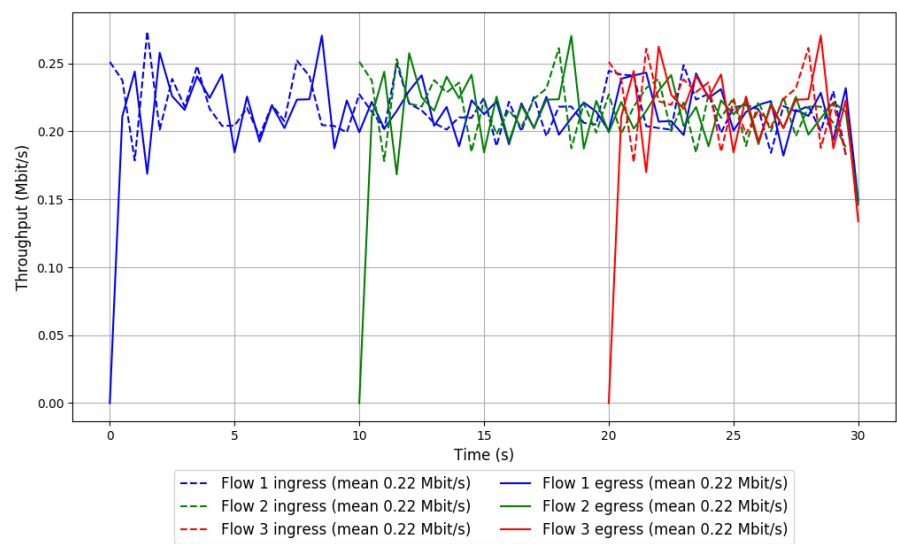


Run 7: Statistics of SReAM

Start at: 2018-07-04 13:07:30  
End at: 2018-07-04 13:08:00  
Local clock offset: -2.311 ms  
Remote clock offset: 8.374 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 80.433 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.442 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 77.472 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.285 ms  
Loss rate: 1.84%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-04 13:28:46

End at: 2018-07-04 13:29:16

Local clock offset: -6.937 ms

Remote clock offset: 2.3 ms

# Below is generated by plot.py at 2018-07-04 14:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 85.149 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.986 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.159 ms

Loss rate: 0.82%

-- Flow 3:

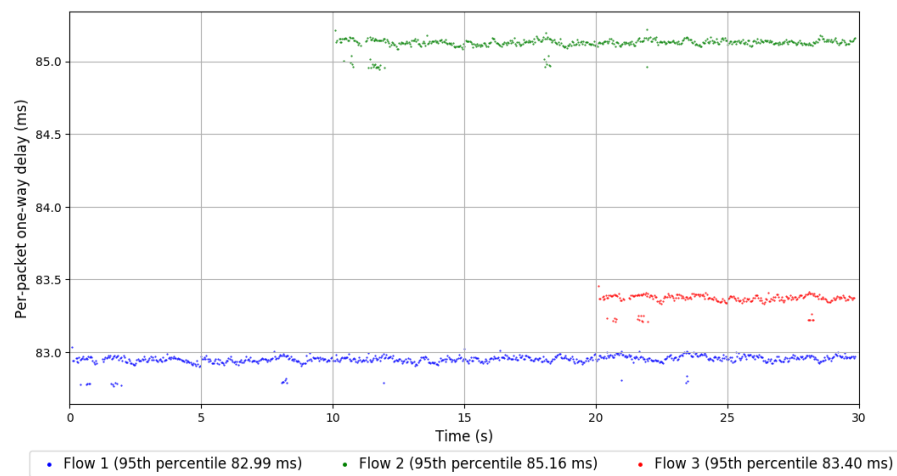
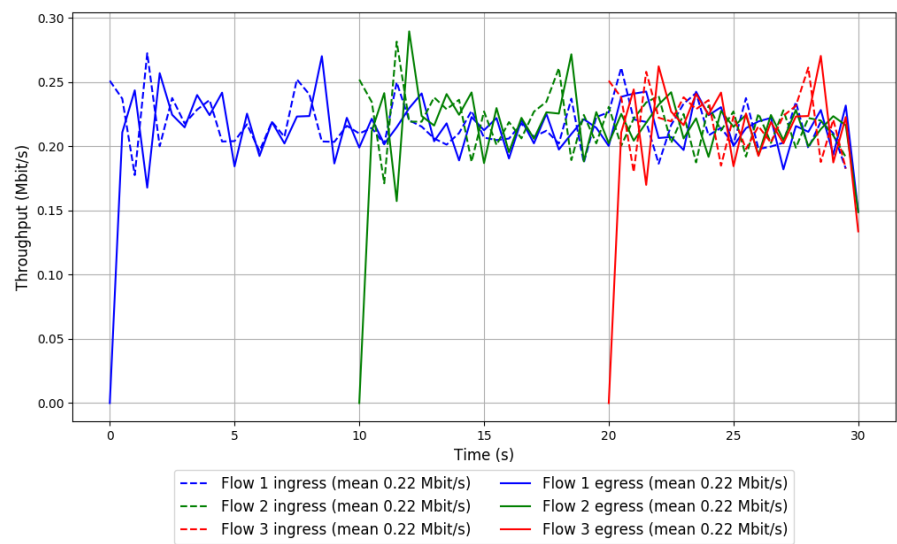
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.402 ms

Loss rate: 1.84%



Run 8: Report of SCRaM — Data Link

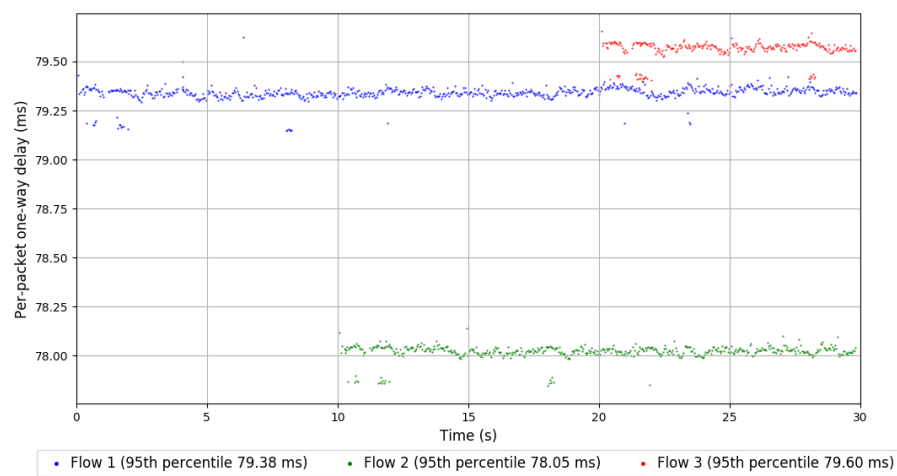
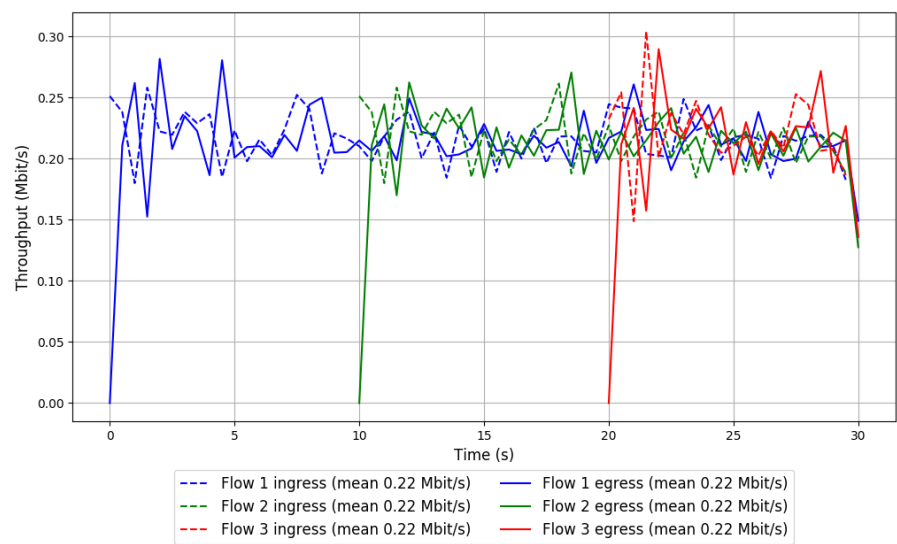


Run 9: Statistics of SReAM

Start at: 2018-07-04 13:50:31  
End at: 2018-07-04 13:51:01  
Local clock offset: -3.98 ms  
Remote clock offset: 13.561 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 79.582 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.375 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 78.054 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.598 ms  
Loss rate: 1.50%

Run 9: Report of SReAM — Data Link

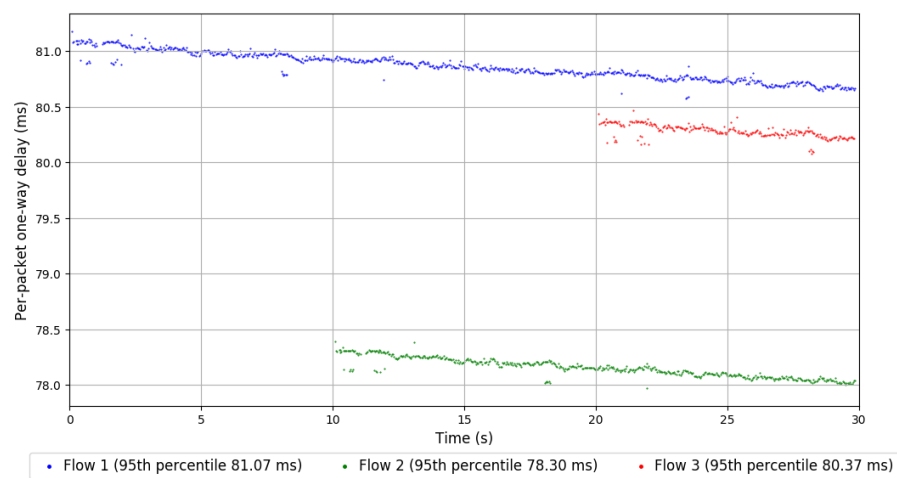
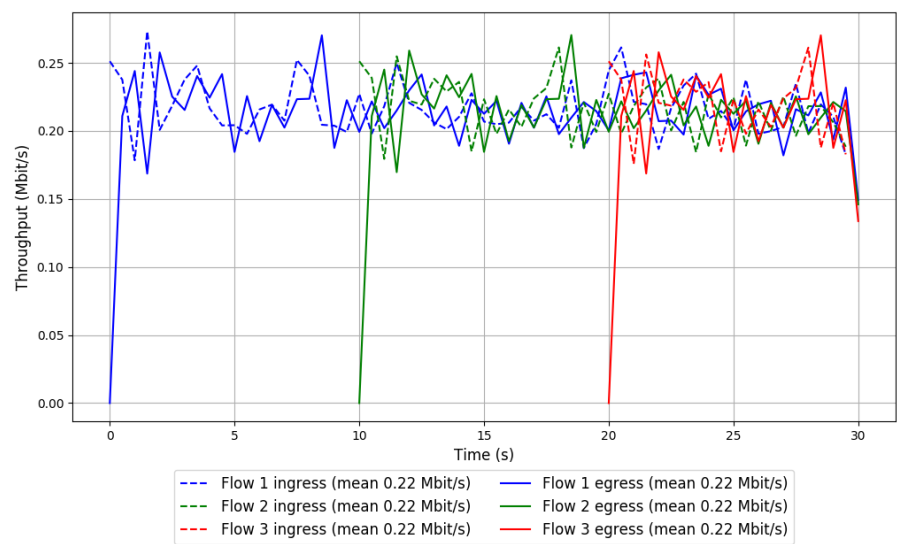


Run 10: Statistics of SReAM

Start at: 2018-07-04 14:11:50  
End at: 2018-07-04 14:12:20  
Local clock offset: -2.24 ms  
Remote clock offset: 15.303 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 81.027 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.068 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 78.304 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.367 ms  
Loss rate: 1.84%

Run 10: Report of SReAM — Data Link

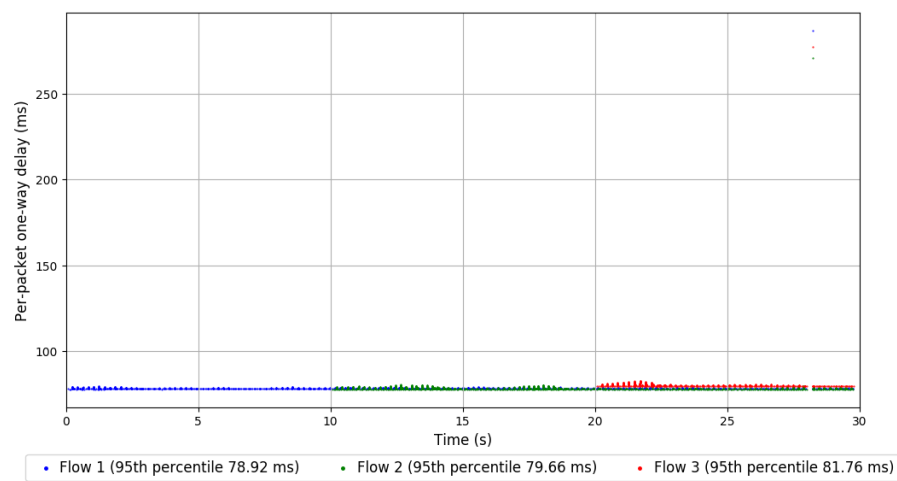
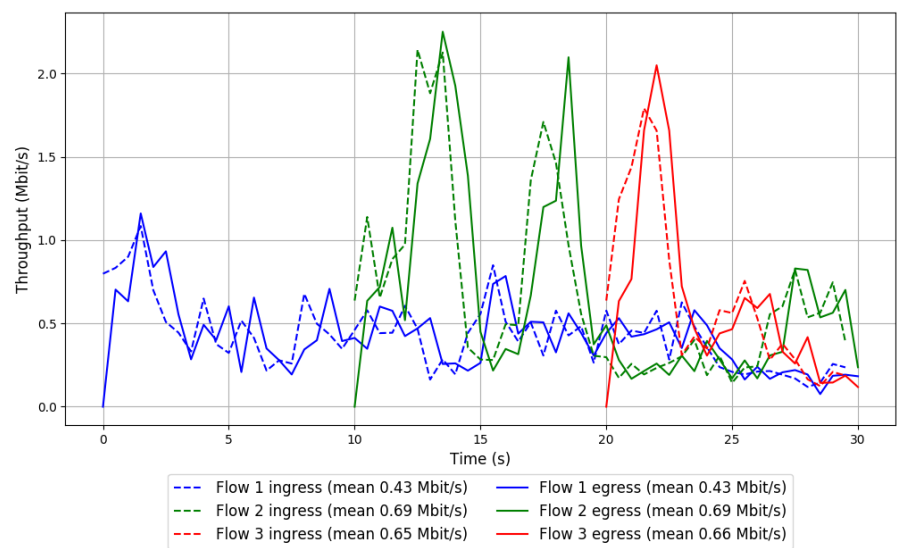


Run 1: Statistics of Sprout

Start at: 2018-07-04 11:00:33  
End at: 2018-07-04 11:01:03  
Local clock offset: -2.622 ms  
Remote clock offset: 14.465 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.10 Mbit/s  
95th percentile per-packet one-way delay: 80.410 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 78.916 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 0.69 Mbit/s  
95th percentile per-packet one-way delay: 79.661 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 81.760 ms  
Loss rate: 0.74%

Run 1: Report of Sprout — Data Link



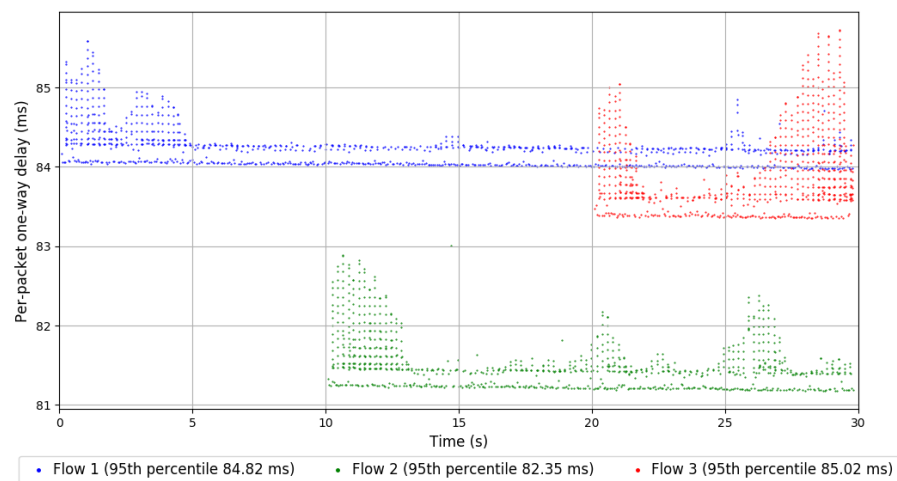
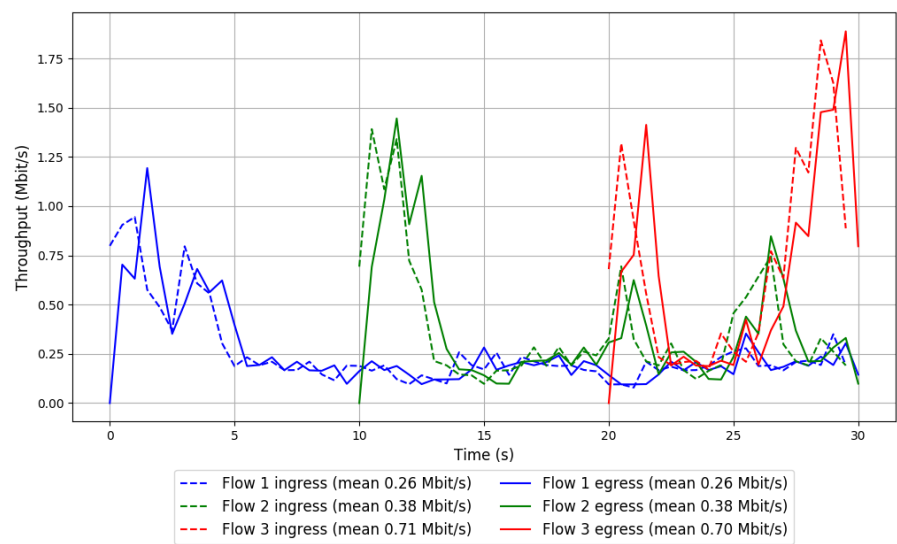
Run 2: Statistics of Sprout

Start at: 2018-07-04 11:21:45  
End at: 2018-07-04 11:22:15  
Local clock offset: -6.238 ms  
Remote clock offset: 13.738 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.74 Mbit/s  
95th percentile per-packet one-way delay: 84.763 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 0.26 Mbit/s  
95th percentile per-packet one-way delay: 84.820 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 82.350 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 85.022 ms  
Loss rate: 2.34%



Run 2: Report of Sprout — Data Link

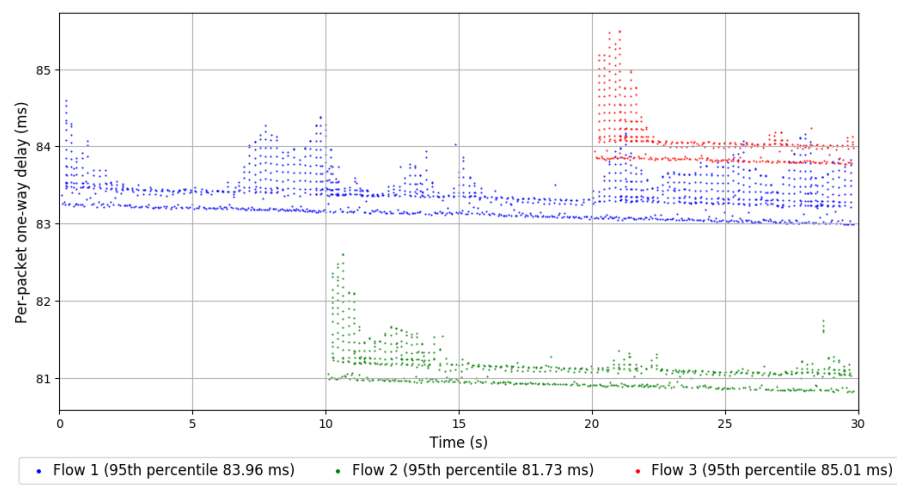
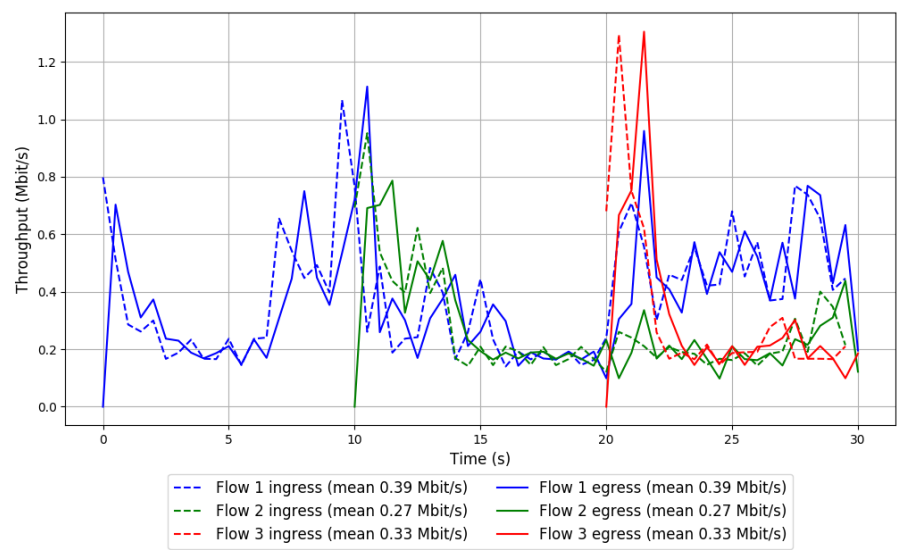


### Run 3: Statistics of Sprout

Start at: 2018-07-04 11:43:09  
End at: 2018-07-04 11:43:39  
Local clock offset: -6.233 ms  
Remote clock offset: 11.691 ms

```
# Below is generated by plot.py at 2018-07-04 14:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 84.148 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 83.957 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 81.731 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 85.011 ms
Loss rate: 1.43%
```

Run 3: Report of Sprout — Data Link

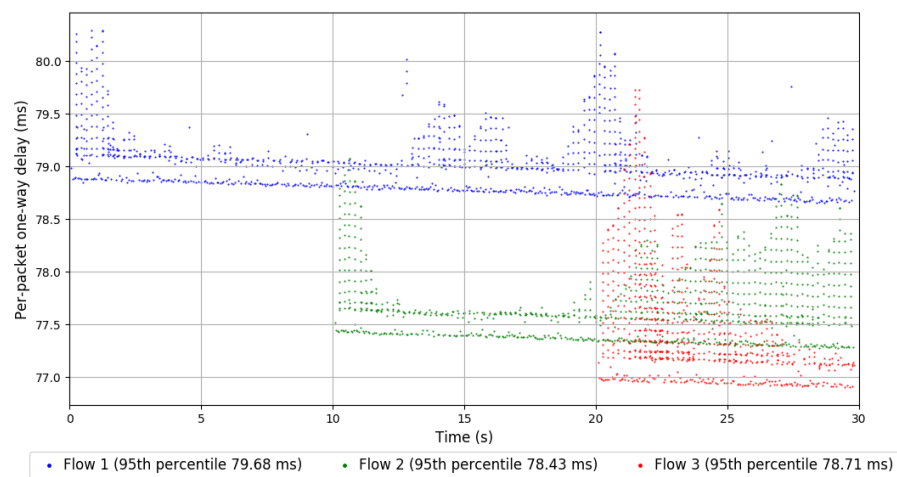
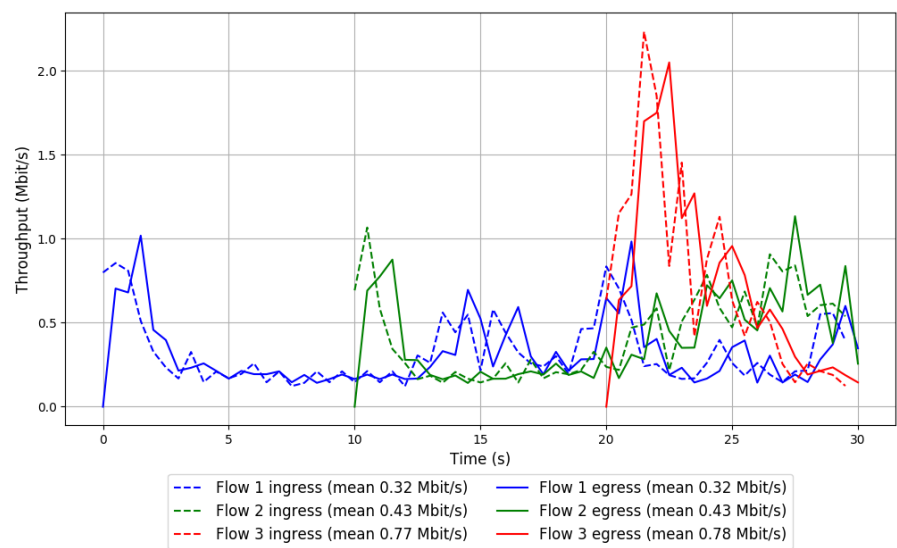


#### Run 4: Statistics of Sprout

Start at: 2018-07-04 12:04:30  
End at: 2018-07-04 12:05:00  
Local clock offset: -1.459 ms  
Remote clock offset: 9.771 ms

```
# Below is generated by plot.py at 2018-07-04 14:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 79.366 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 79.678 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 78.431 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 78.714 ms
Loss rate: 0.03%
```

Run 4: Report of Sprout — Data Link

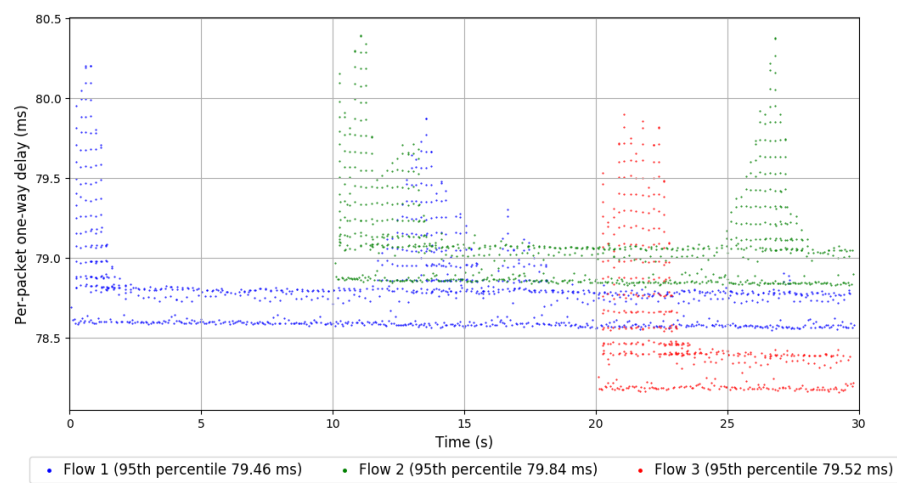
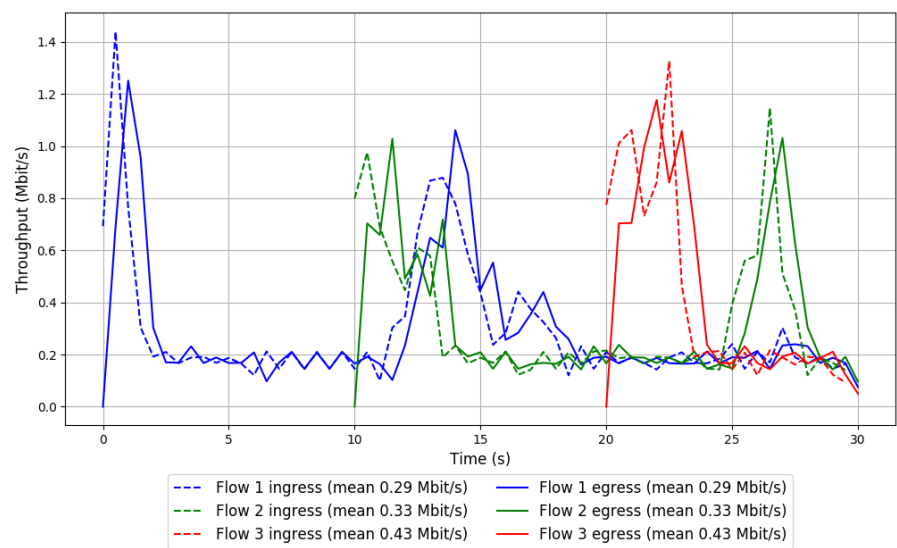


Run 5: Statistics of Sprout

Start at: 2018-07-04 12:25:50  
End at: 2018-07-04 12:26:20  
Local clock offset: -2.58 ms  
Remote clock offset: 4.778 ms

```
# Below is generated by plot.py at 2018-07-04 14:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 79.650 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 79.463 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 79.841 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.515 ms
Loss rate: 0.53%
```

Run 5: Report of Sprout — Data Link



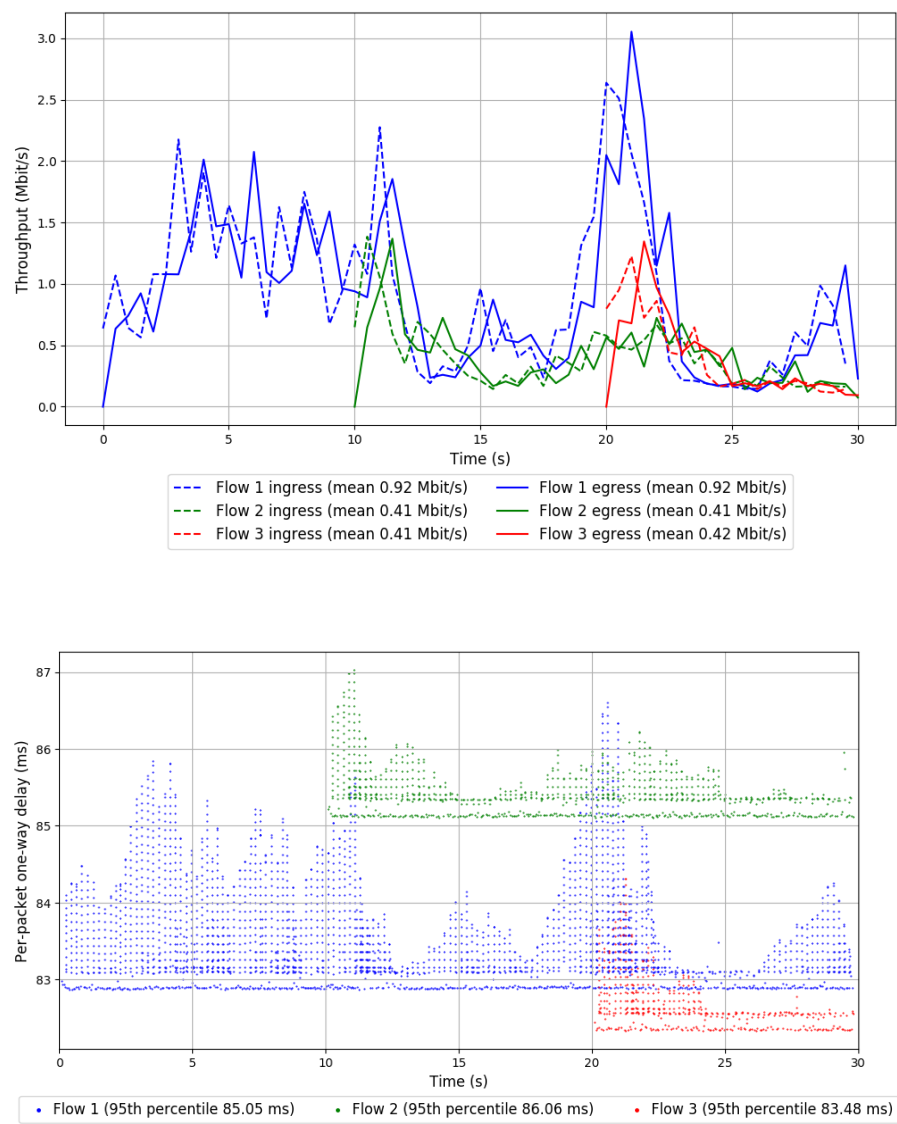
Run 6: Statistics of Sprout

Start at: 2018-07-04 12:47:16  
End at: 2018-07-04 12:47:46  
Local clock offset: -2.541 ms  
Remote clock offset: 3.508 ms

```
# Below is generated by plot.py at 2018-07-04 14:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 85.691 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 85.049 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 86.062 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 83.478 ms
Loss rate: 0.84%
```



Run 6: Report of Sprout — Data Link

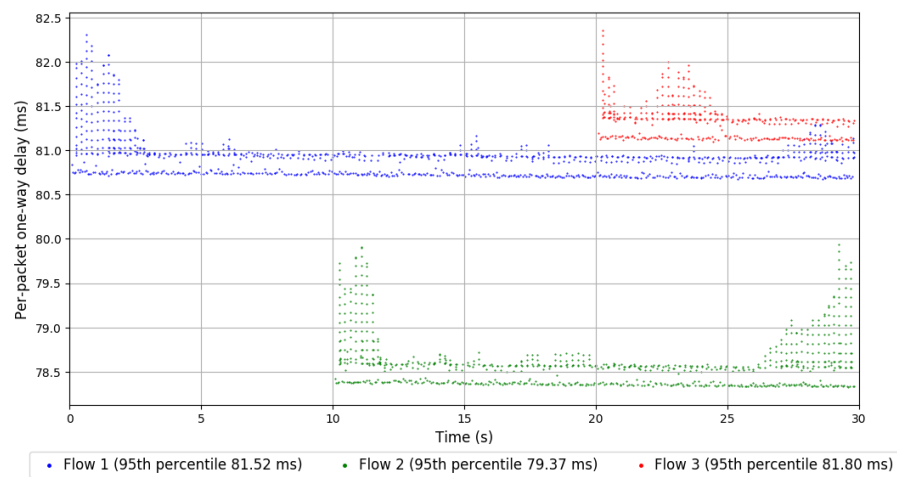
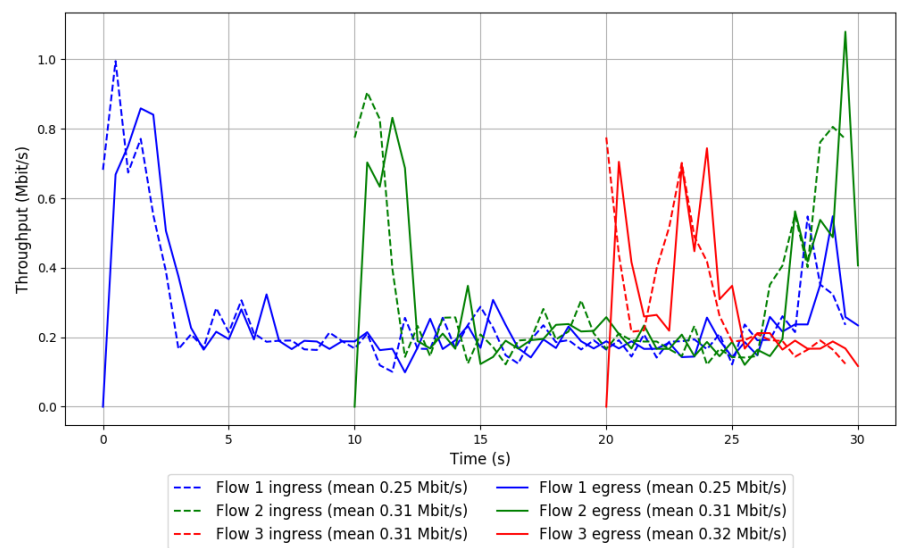


Run 7: Statistics of Sprout

Start at: 2018-07-04 13:08:41  
End at: 2018-07-04 13:09:11  
Local clock offset: -2.364 ms  
Remote clock offset: 7.111 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 81.513 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 81.520 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 79.373 ms  
Loss rate: 2.94%  
-- Flow 3:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 81.803 ms  
Loss rate: 0.46%

Run 7: Report of Sprout — Data Link

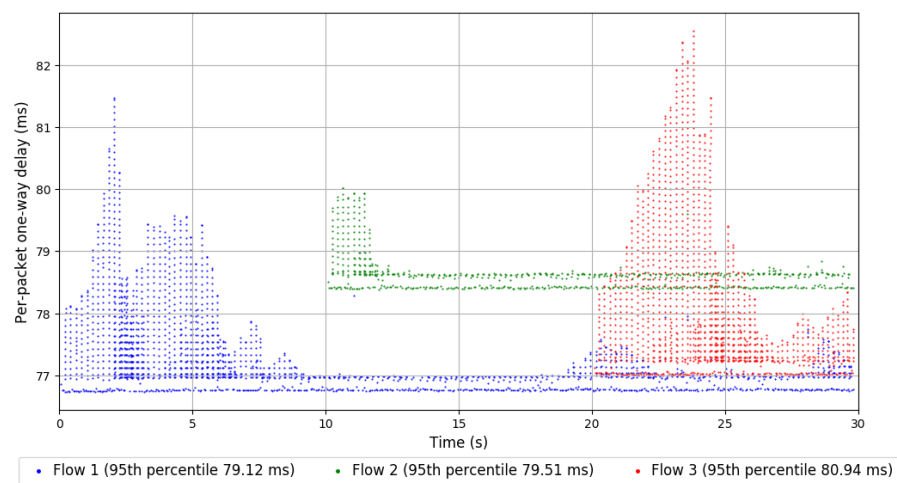
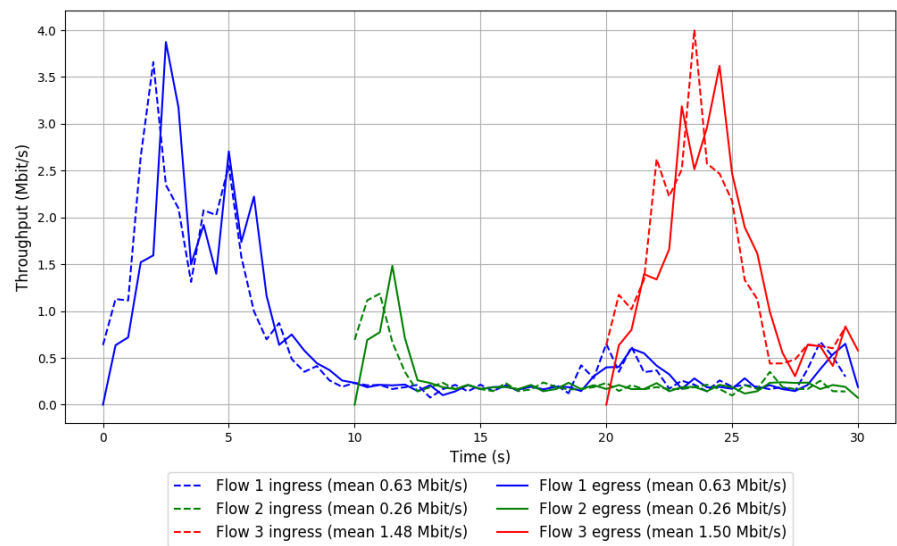


Run 8: Statistics of Sprout

Start at: 2018-07-04 13:29:57  
End at: 2018-07-04 13:30:27  
Local clock offset: -7.059 ms  
Remote clock offset: 8.447 ms

```
# Below is generated by plot.py at 2018-07-04 14:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 79.964 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 79.117 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 79.511 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 80.942 ms
Loss rate: 0.86%
```

Run 8: Report of Sprout — Data Link

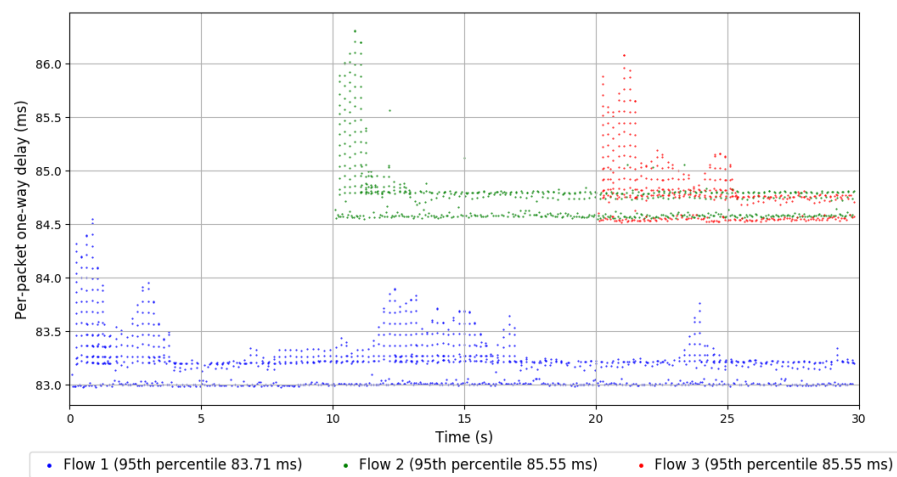
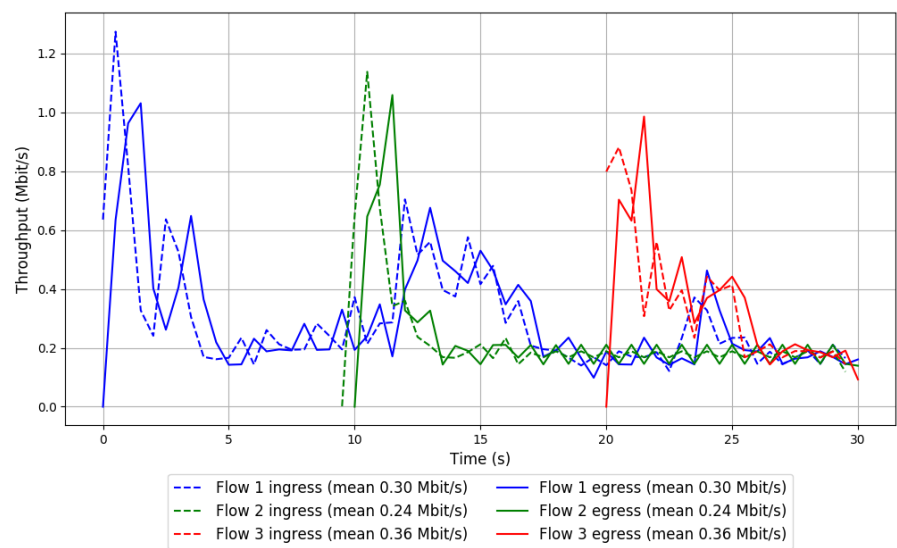


Run 9: Statistics of Sprout

Start at: 2018-07-04 13:51:42  
End at: 2018-07-04 13:52:12  
Local clock offset: -3.762 ms  
Remote clock offset: 8.695 ms

```
# Below is generated by plot.py at 2018-07-04 14:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 85.133 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 83.711 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 85.553 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 85.554 ms
Loss rate: 1.04%
```

Run 9: Report of Sprout — Data Link



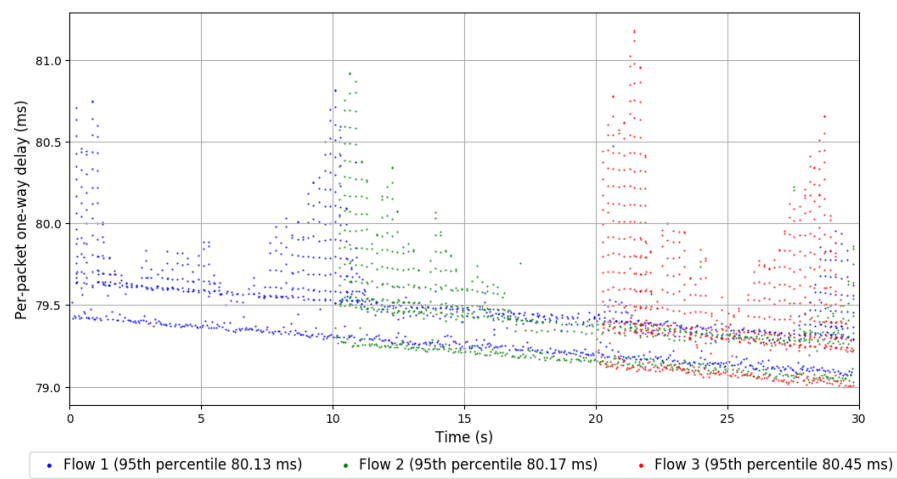
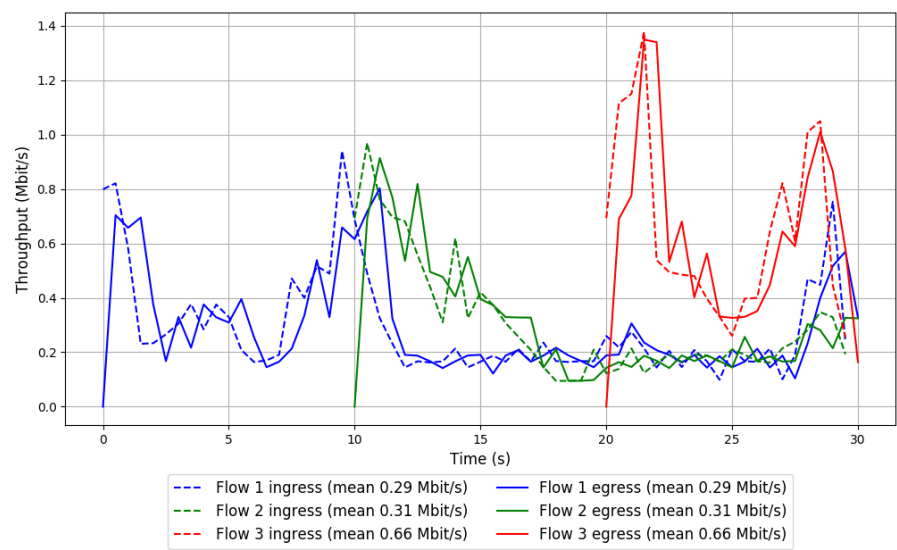
Run 10: Statistics of Sprout

Start at: 2018-07-04 14:13:01  
End at: 2018-07-04 14:13:31  
Local clock offset: -2.372 ms  
Remote clock offset: 15.548 ms

# Below is generated by plot.py at 2018-07-04 14:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.72 Mbit/s  
95th percentile per-packet one-way delay: 80.273 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 80.128 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 80.168 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 80.449 ms  
Loss rate: 1.10%



Run 10: Report of Sprout — Data Link

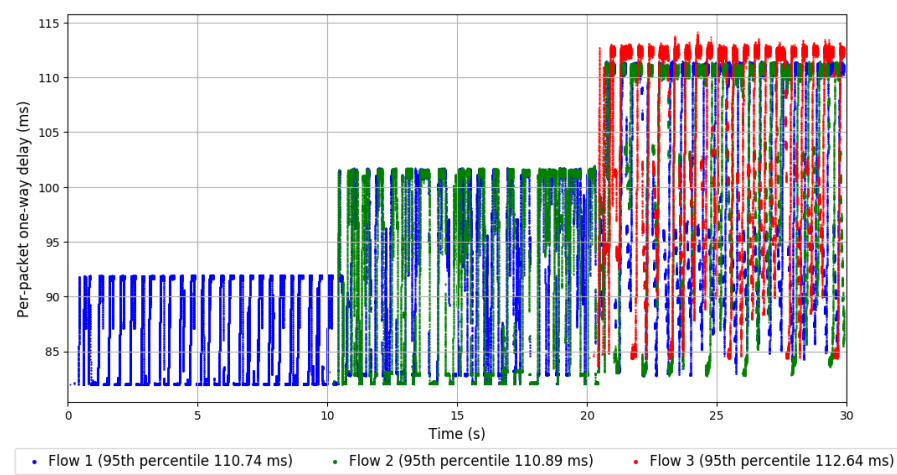
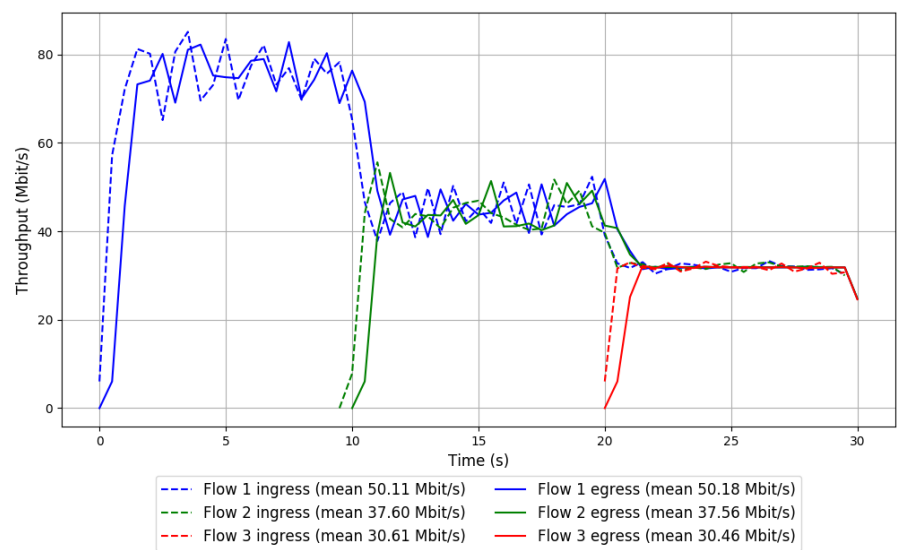


Run 1: Statistics of TaoVA-100x

Start at: 2018-07-04 11:04:11  
End at: 2018-07-04 11:04:41  
Local clock offset: -2.703 ms  
Remote clock offset: 11.291 ms

# Below is generated by plot.py at 2018-07-04 14:42:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.16 Mbit/s  
95th percentile per-packet one-way delay: 111.879 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 50.18 Mbit/s  
95th percentile per-packet one-way delay: 110.740 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 37.56 Mbit/s  
95th percentile per-packet one-way delay: 110.894 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 30.46 Mbit/s  
95th percentile per-packet one-way delay: 112.643 ms  
Loss rate: 2.18%

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

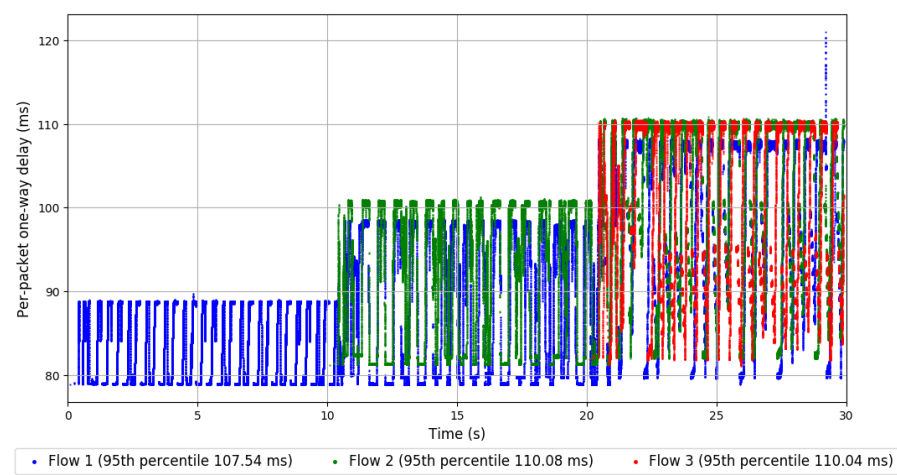
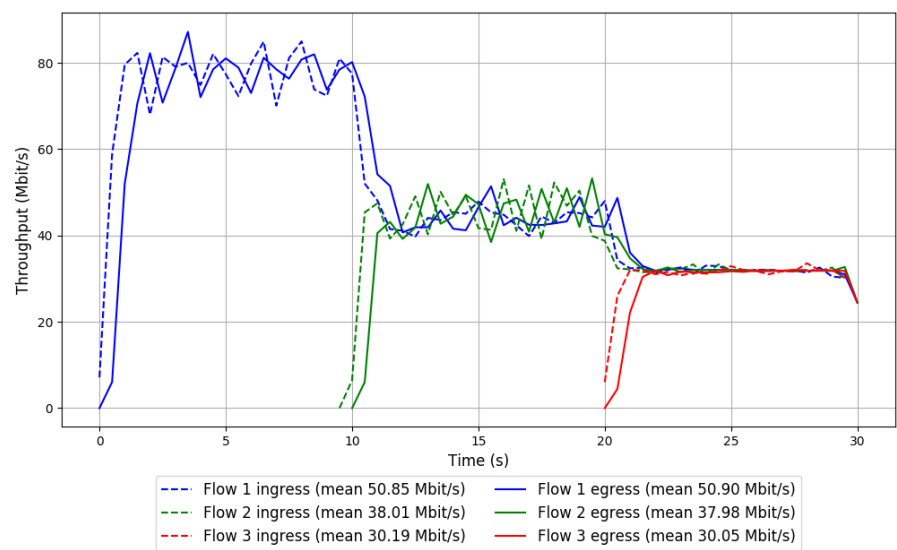


Run 2: Statistics of TaoVA-100x

Start at: 2018-07-04 11:25:23  
End at: 2018-07-04 11:25:53  
Local clock offset: -6.836 ms  
Remote clock offset: 15.502 ms

# Below is generated by plot.py at 2018-07-04 14:42:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.01 Mbit/s  
95th percentile per-packet one-way delay: 109.836 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 50.90 Mbit/s  
95th percentile per-packet one-way delay: 107.538 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 37.98 Mbit/s  
95th percentile per-packet one-way delay: 110.079 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 30.05 Mbit/s  
95th percentile per-packet one-way delay: 110.036 ms  
Loss rate: 2.31%

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

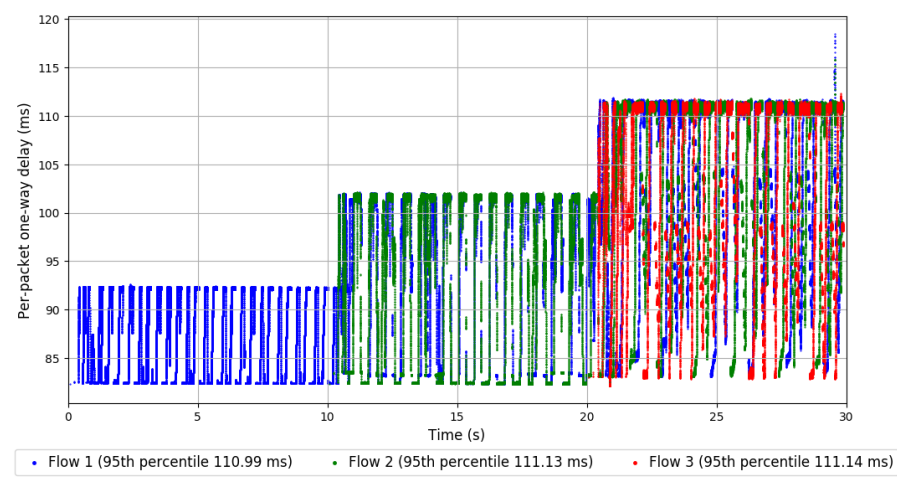
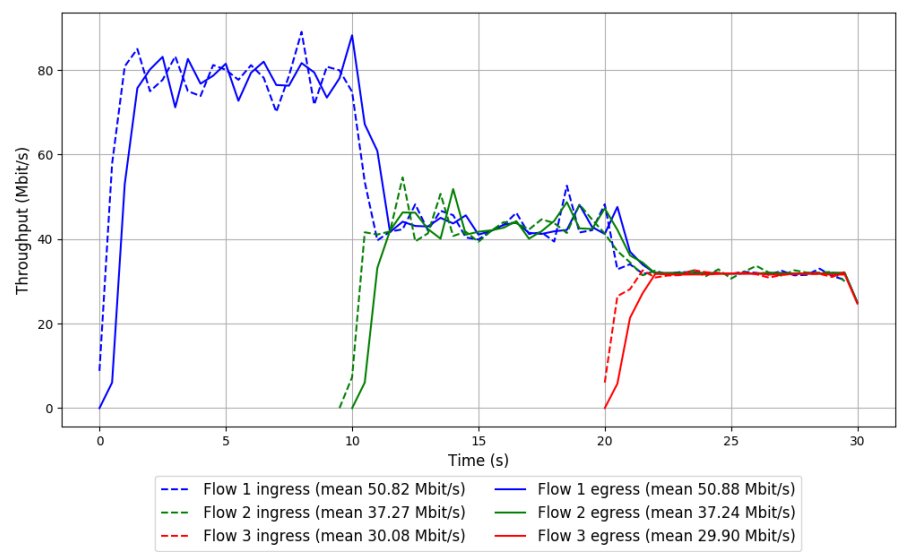


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-04 11:46:48  
End at: 2018-07-04 11:47:18  
Local clock offset: -4.66 ms  
Remote clock offset: 10.722 ms

# Below is generated by plot.py at 2018-07-04 14:42:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.46 Mbit/s  
95th percentile per-packet one-way delay: 111.076 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 50.88 Mbit/s  
95th percentile per-packet one-way delay: 110.990 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 37.24 Mbit/s  
95th percentile per-packet one-way delay: 111.128 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 29.90 Mbit/s  
95th percentile per-packet one-way delay: 111.145 ms  
Loss rate: 2.29%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-04 12:08:09

End at: 2018-07-04 12:08:39

Local clock offset: -1.146 ms

Remote clock offset: 8.583 ms

# Below is generated by plot.py at 2018-07-04 14:42:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.71 Mbit/s

95th percentile per-packet one-way delay: 106.326 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 50.68 Mbit/s

95th percentile per-packet one-way delay: 106.070 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 37.63 Mbit/s

95th percentile per-packet one-way delay: 106.634 ms

Loss rate: 0.91%

-- Flow 3:

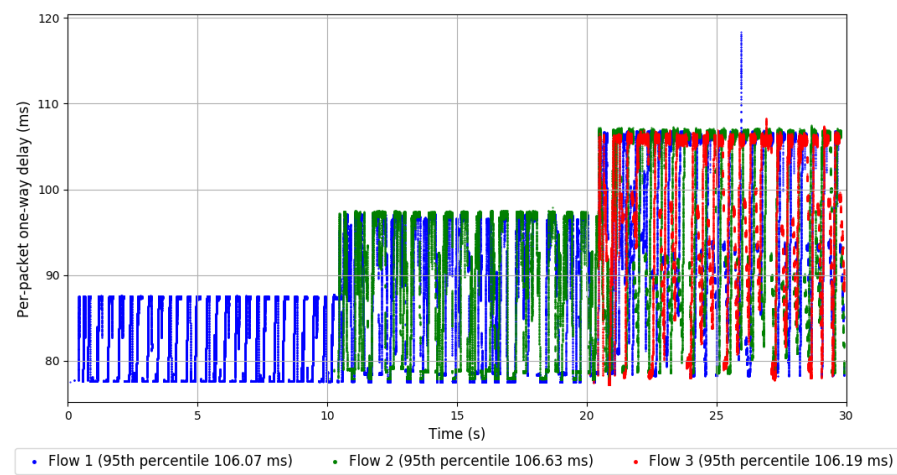
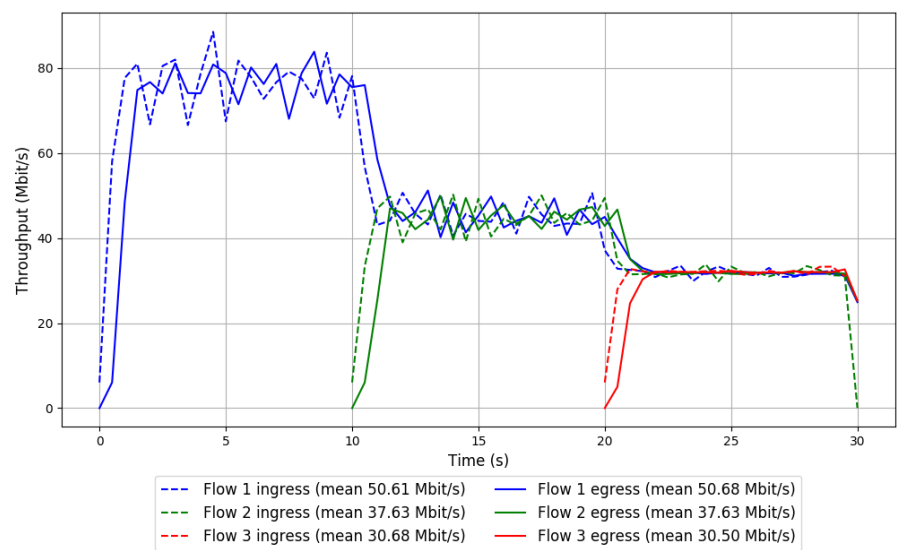
Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 106.190 ms

Loss rate: 2.33%



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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-04 12:29:37

End at: 2018-07-04 12:30:07

Local clock offset: -2.606 ms

Remote clock offset: 0.522 ms

# Below is generated by plot.py at 2018-07-04 14:42:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 113.491 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 113.210 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 38.36 Mbit/s

95th percentile per-packet one-way delay: 113.991 ms

Loss rate: 0.92%

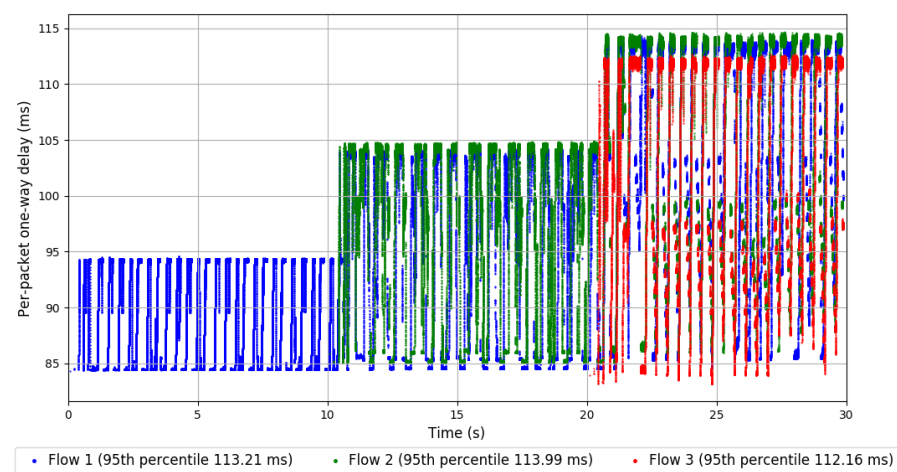
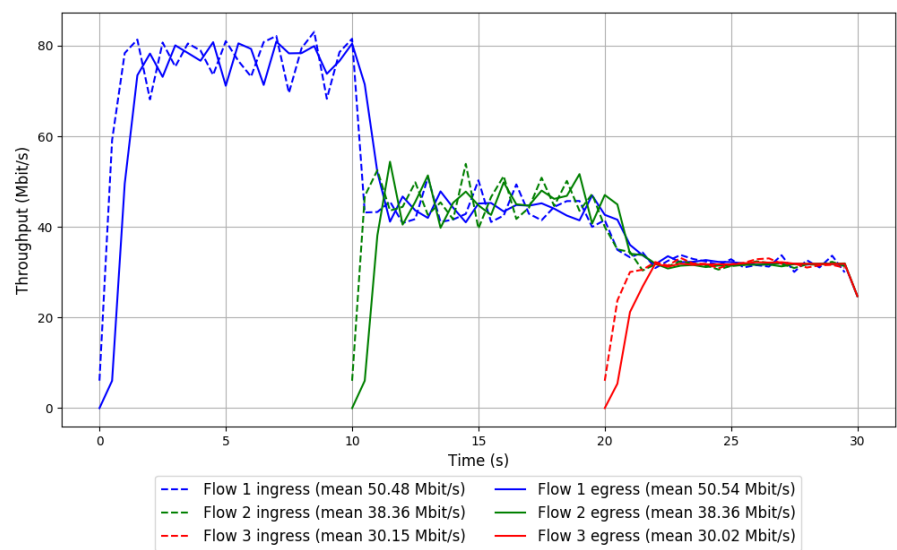
-- Flow 3:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 112.159 ms

Loss rate: 2.14%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-04 12:50:55

End at: 2018-07-04 12:51:25

Local clock offset: -2.485 ms

Remote clock offset: 7.562 ms

# Below is generated by plot.py at 2018-07-04 14:42:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 110.072 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 50.72 Mbit/s

95th percentile per-packet one-way delay: 110.027 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 110.183 ms

Loss rate: 0.98%

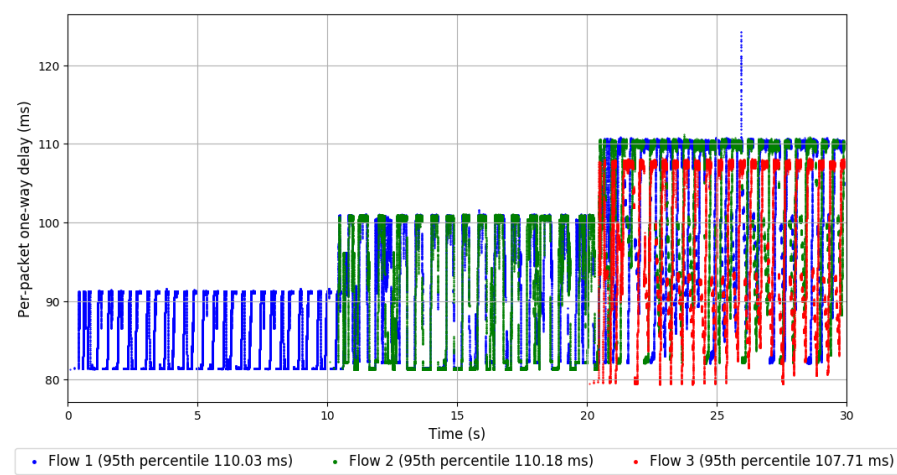
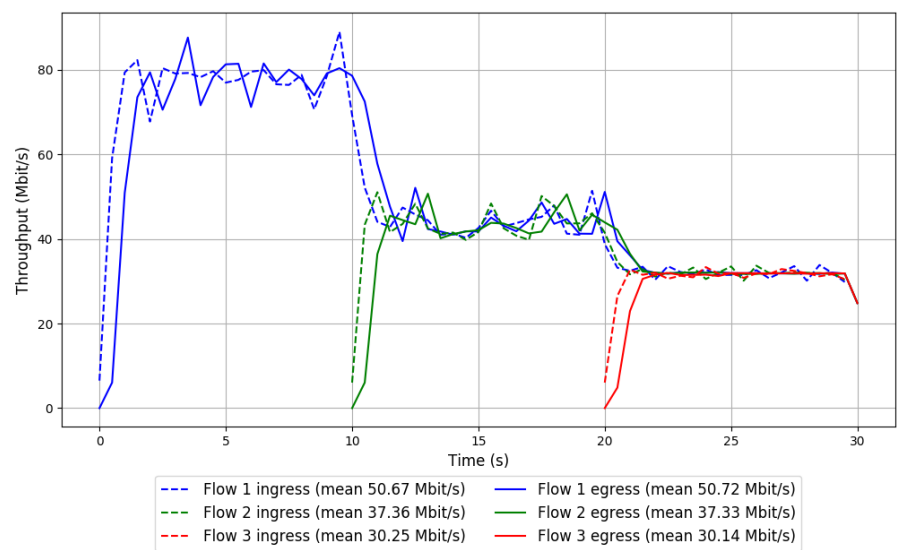
-- Flow 3:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 107.714 ms

Loss rate: 2.04%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-04 13:12:19

End at: 2018-07-04 13:12:49

Local clock offset: -3.409 ms

Remote clock offset: 7.924 ms

# Below is generated by plot.py at 2018-07-04 14:42:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.01 Mbit/s

95th percentile per-packet one-way delay: 108.759 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 106.158 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 38.00 Mbit/s

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

Loss rate: 0.86%

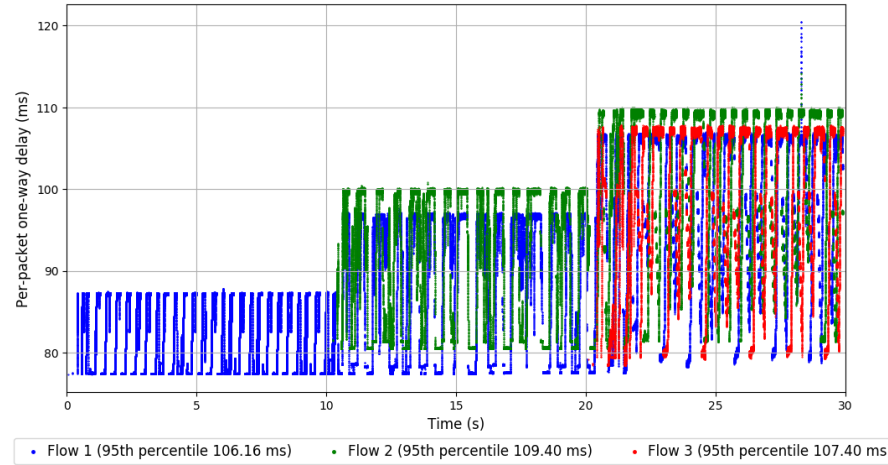
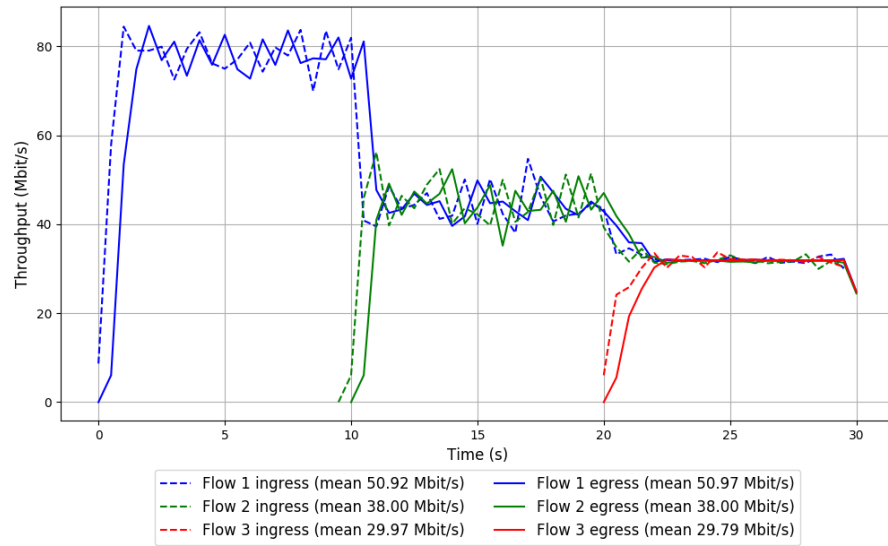
-- Flow 3:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 107.400 ms

Loss rate: 2.30%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-04 13:33:36

End at: 2018-07-04 13:34:06

Local clock offset: -7.381 ms

Remote clock offset: 2.208 ms

# Below is generated by plot.py at 2018-07-04 14:43:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 113.233 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 113.317 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 111.965 ms

Loss rate: 0.87%

-- Flow 3:

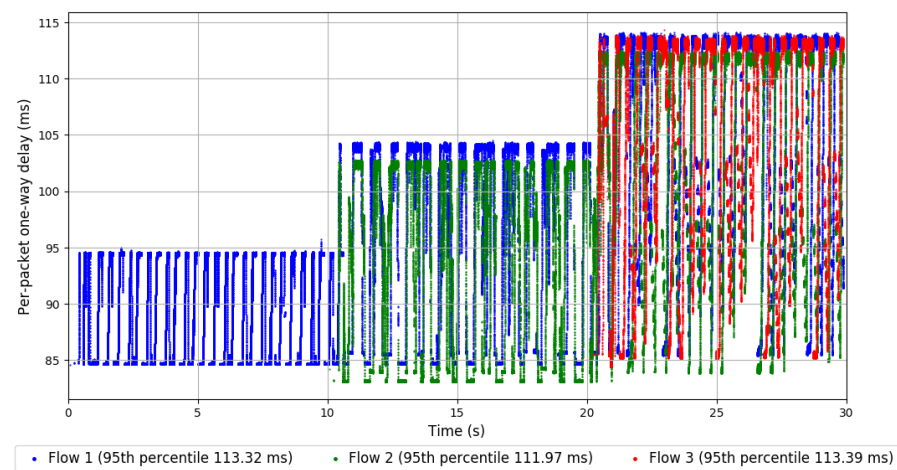
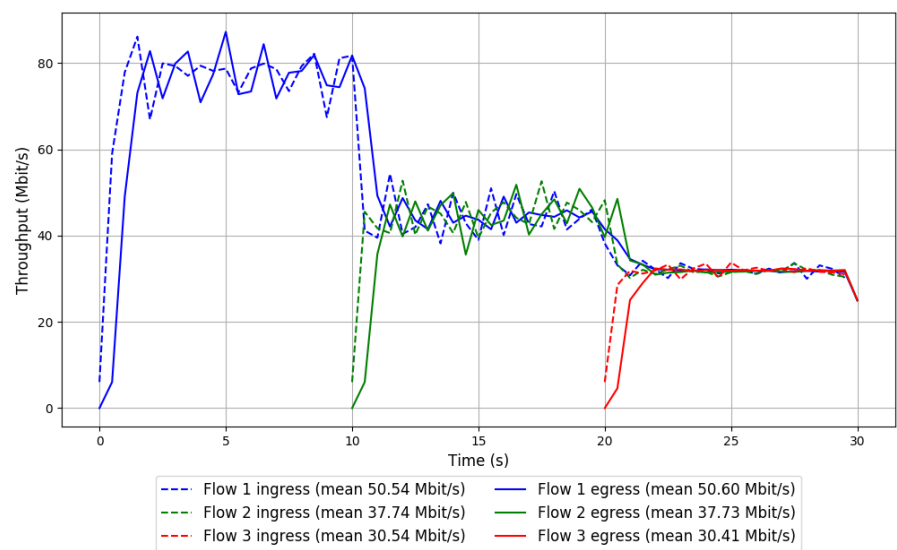
Average throughput: 30.41 Mbit/s

95th percentile per-packet one-way delay: 113.393 ms

Loss rate: 2.22%



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

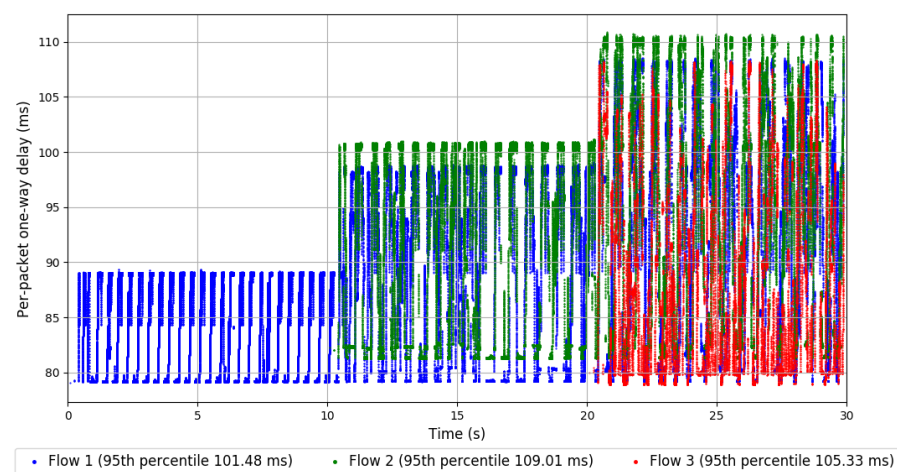
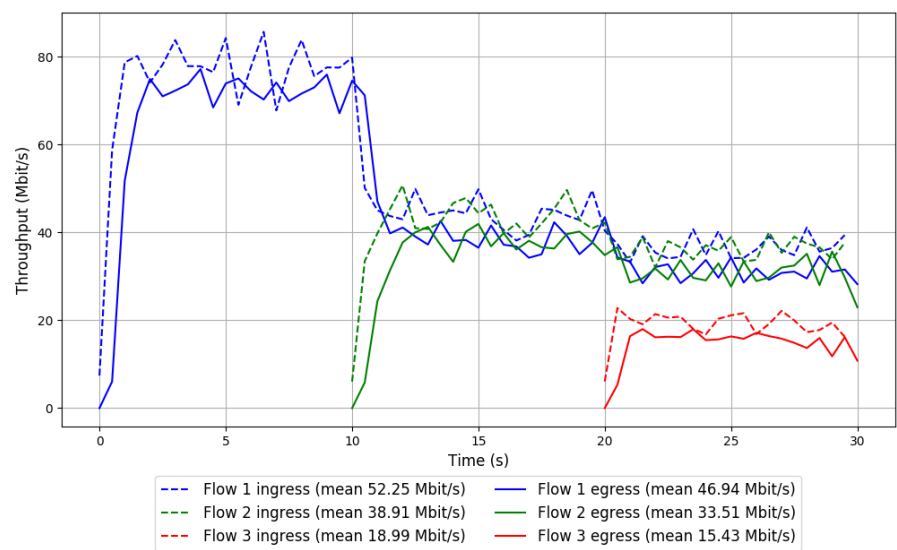


Run 9: Statistics of TaoVA-100x

Start at: 2018-07-04 13:55:20  
End at: 2018-07-04 13:55:50  
Local clock offset: -3.177 ms  
Remote clock offset: 13.446 ms

# Below is generated by plot.py at 2018-07-04 14:44:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.25 Mbit/s  
95th percentile per-packet one-way delay: 105.137 ms  
Loss rate: 12.64%  
-- Flow 1:  
Average throughput: 46.94 Mbit/s  
95th percentile per-packet one-way delay: 101.479 ms  
Loss rate: 10.72%  
-- Flow 2:  
Average throughput: 33.51 Mbit/s  
95th percentile per-packet one-way delay: 109.009 ms  
Loss rate: 14.71%  
-- Flow 3:  
Average throughput: 15.43 Mbit/s  
95th percentile per-packet one-way delay: 105.332 ms  
Loss rate: 20.07%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-04 14:16:38

End at: 2018-07-04 14:17:08

Local clock offset: -2.481 ms

Remote clock offset: 7.926 ms

# Below is generated by plot.py at 2018-07-04 14:44:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 110.396 ms

Loss rate: 12.91%

-- Flow 1:

Average throughput: 45.64 Mbit/s

95th percentile per-packet one-way delay: 107.438 ms

Loss rate: 11.05%

-- Flow 2:

Average throughput: 34.11 Mbit/s

95th percentile per-packet one-way delay: 113.280 ms

Loss rate: 15.29%

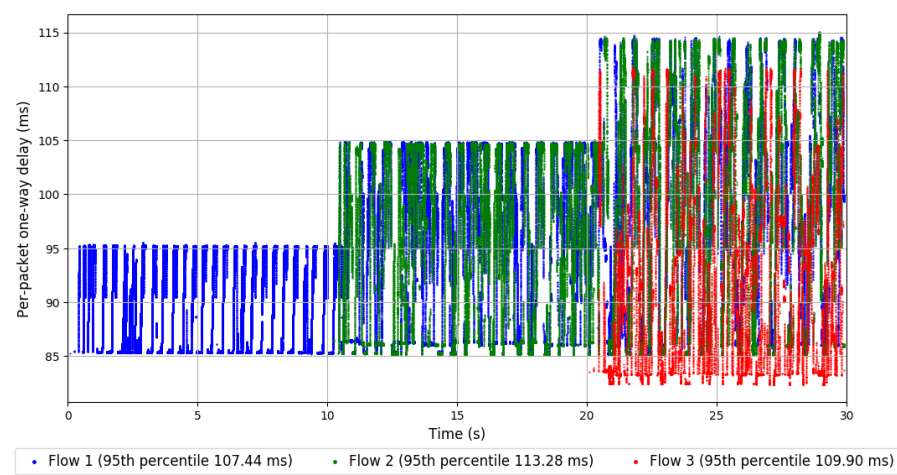
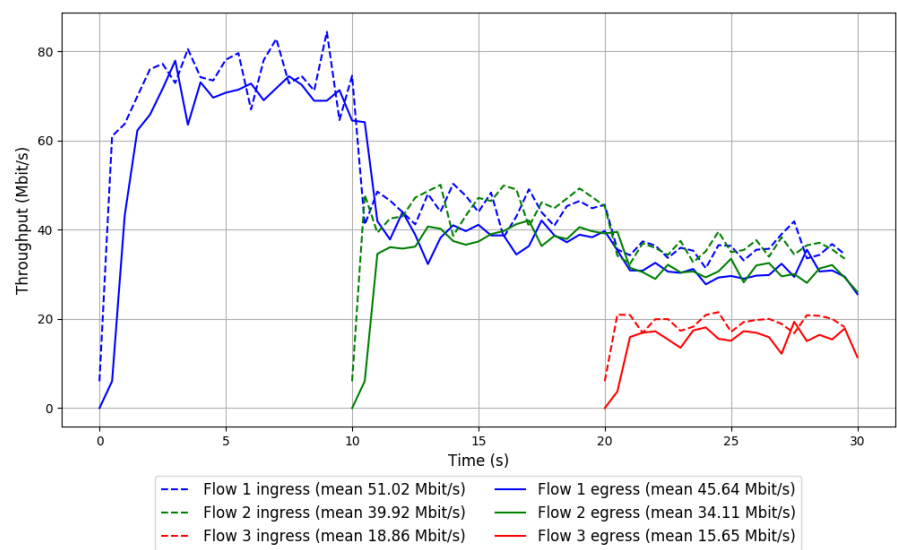
-- Flow 3:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 109.903 ms

Loss rate: 18.04%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-04 10:53:06

End at: 2018-07-04 10:53:36

Local clock offset: -2.49 ms

Remote clock offset: 10.74 ms

# Below is generated by plot.py at 2018-07-04 14:44:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.91 Mbit/s

95th percentile per-packet one-way delay: 91.118 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 91.022 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 24.46 Mbit/s

95th percentile per-packet one-way delay: 89.964 ms

Loss rate: 0.98%

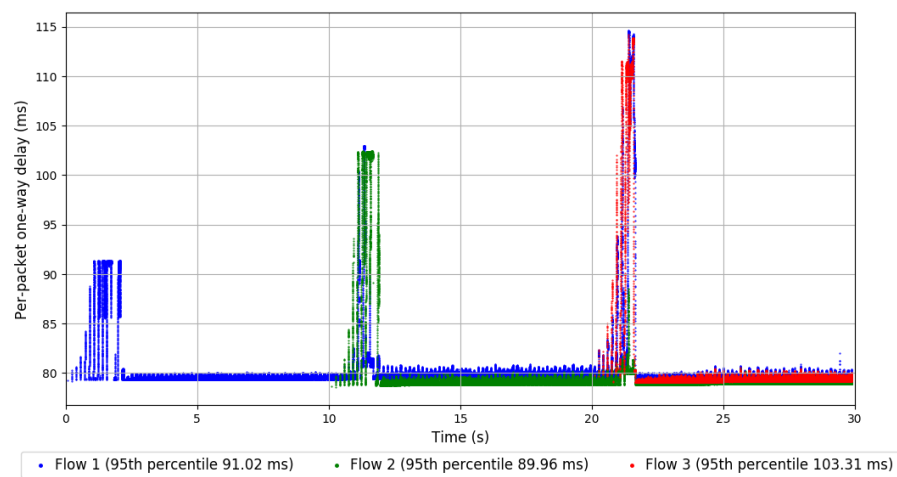
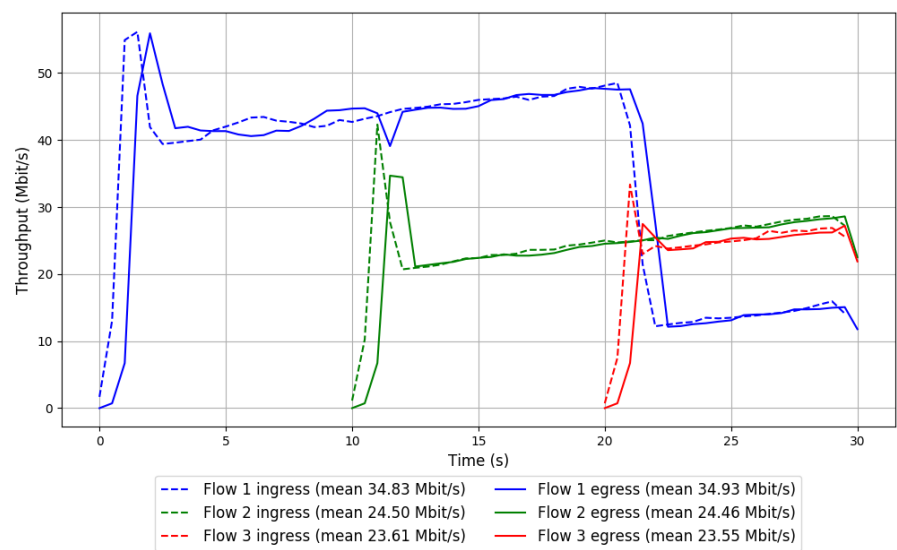
-- Flow 3:

Average throughput: 23.55 Mbit/s

95th percentile per-packet one-way delay: 103.312 ms

Loss rate: 1.90%

Run 1: Report of TCP Vegas — Data Link



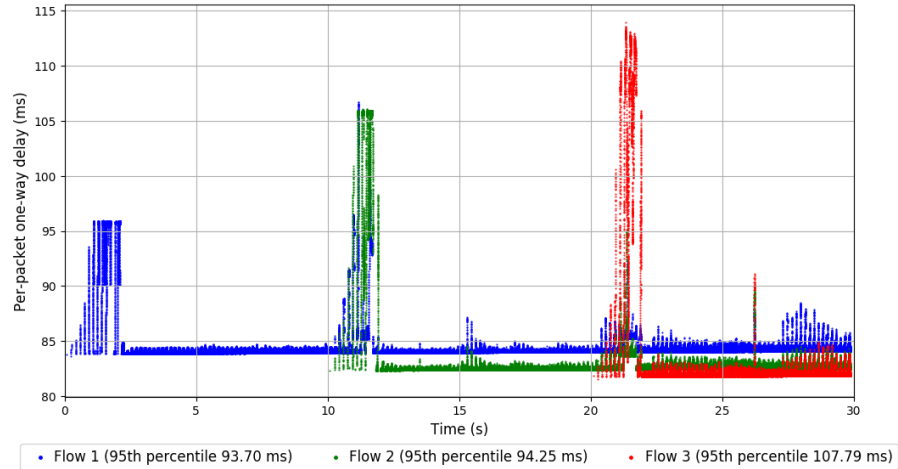
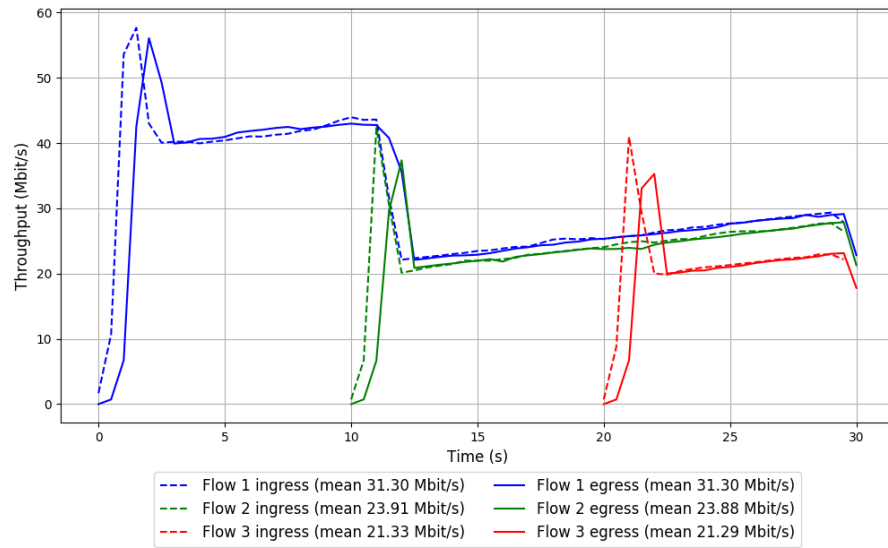
Run 2: Statistics of TCP Vegas

Start at: 2018-07-04 11:14:20  
End at: 2018-07-04 11:14:50  
Local clock offset: -4.494 ms  
Remote clock offset: 13.125 ms

# Below is generated by plot.py at 2018-07-04 14:44:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.16 Mbit/s  
95th percentile per-packet one-way delay: 95.174 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 31.30 Mbit/s  
95th percentile per-packet one-way delay: 93.698 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 23.88 Mbit/s  
95th percentile per-packet one-way delay: 94.248 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 21.29 Mbit/s  
95th percentile per-packet one-way delay: 107.787 ms  
Loss rate: 1.83%



## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-04 11:35:32

End at: 2018-07-04 11:36:02

Local clock offset: -7.886 ms

Remote clock offset: 14.41 ms

# Below is generated by plot.py at 2018-07-04 14:44:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 47.22 Mbit/s

95th percentile per-packet one-way delay: 90.973 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 26.44 Mbit/s

95th percentile per-packet one-way delay: 89.394 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 14.84 Mbit/s

95th percentile per-packet one-way delay: 102.102 ms

Loss rate: 0.79%

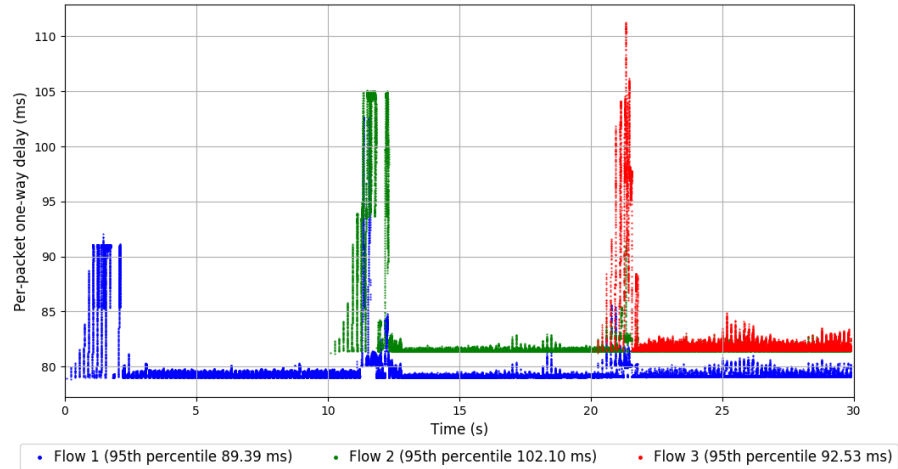
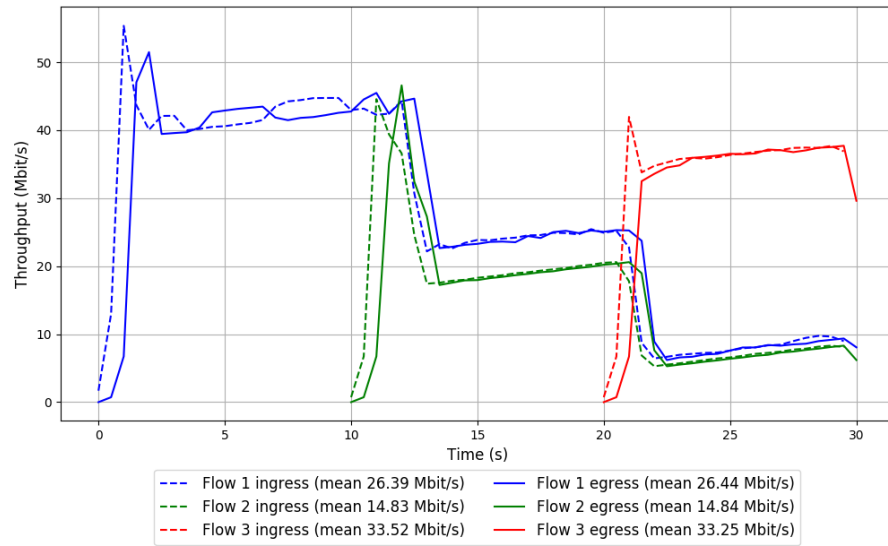
-- Flow 3:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 92.534 ms

Loss rate: 2.45%

### Run 3: Report of TCP Vegas — Data Link

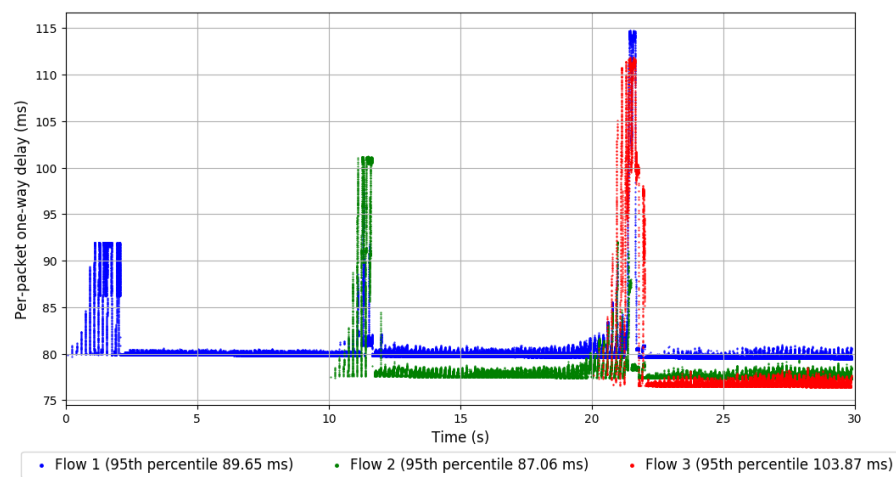
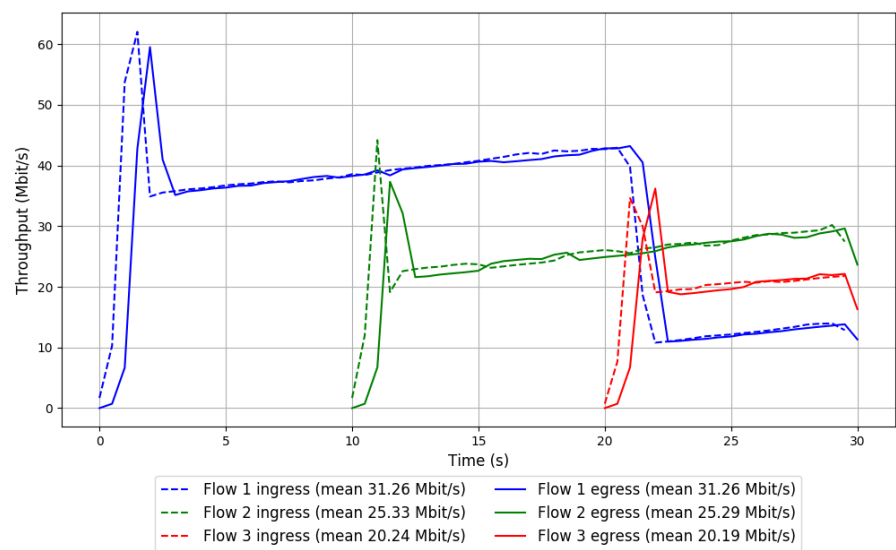


Run 4: Statistics of TCP Vegas

Start at: 2018-07-04 11:57:01  
End at: 2018-07-04 11:57:31  
Local clock offset: -2.203 ms  
Remote clock offset: 14.425 ms

# Below is generated by plot.py at 2018-07-04 14:44:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.68 Mbit/s  
95th percentile per-packet one-way delay: 91.441 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 31.26 Mbit/s  
95th percentile per-packet one-way delay: 89.646 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 25.29 Mbit/s  
95th percentile per-packet one-way delay: 87.062 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 20.19 Mbit/s  
95th percentile per-packet one-way delay: 103.870 ms  
Loss rate: 1.87%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-04 12:18:21

End at: 2018-07-04 12:18:51

Local clock offset: -2.137 ms

Remote clock offset: 2.609 ms

# Below is generated by plot.py at 2018-07-04 14:44:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.07 Mbit/s

95th percentile per-packet one-way delay: 93.997 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 32.51 Mbit/s

95th percentile per-packet one-way delay: 92.698 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 95.059 ms

Loss rate: 1.01%

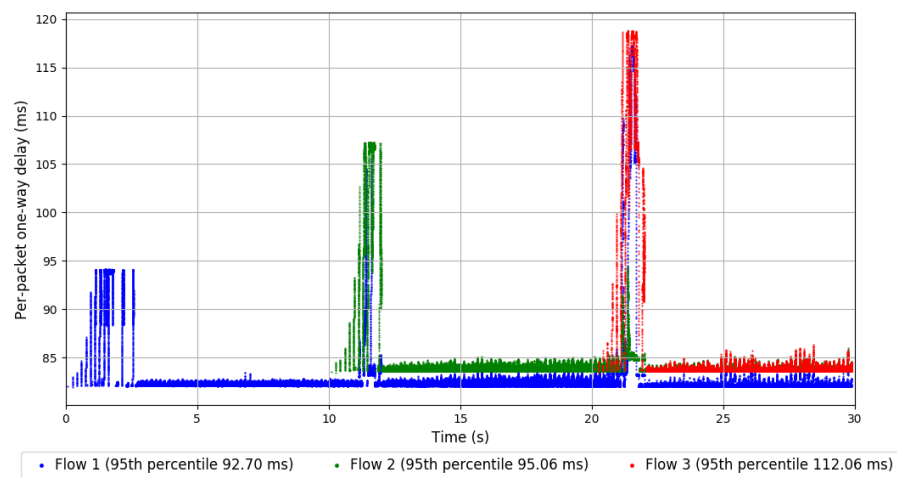
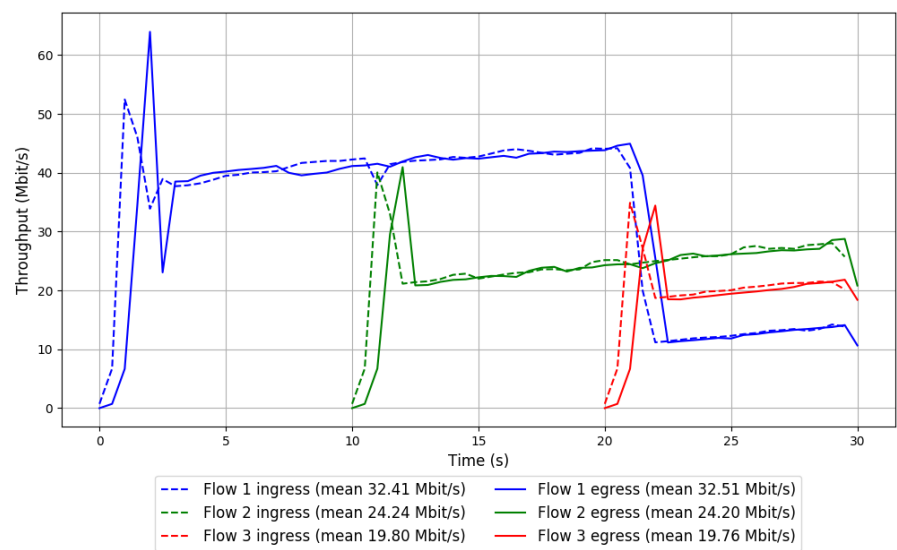
-- Flow 3:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 112.062 ms

Loss rate: 1.88%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-04 12:39:50

End at: 2018-07-04 12:40:20

Local clock offset: -2.648 ms

Remote clock offset: 4.113 ms

# Below is generated by plot.py at 2018-07-04 14:44:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 47.98 Mbit/s

95th percentile per-packet one-way delay: 95.573 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 93.496 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 95.920 ms

Loss rate: 1.01%

-- Flow 3:

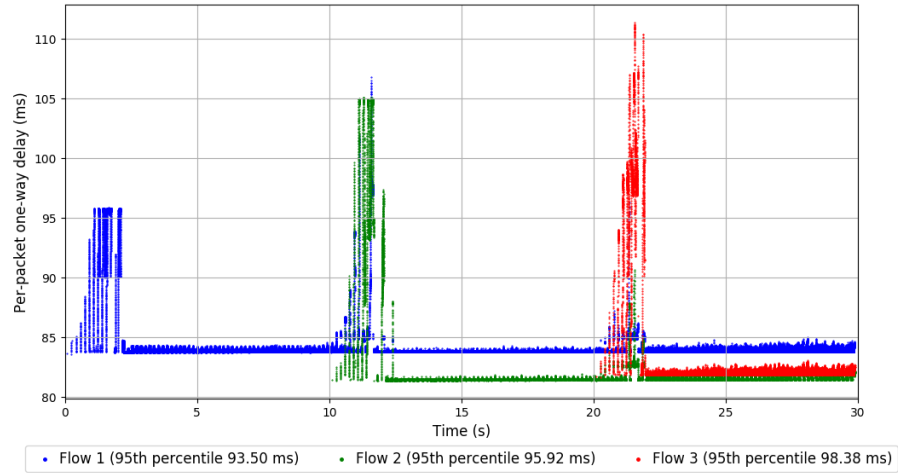
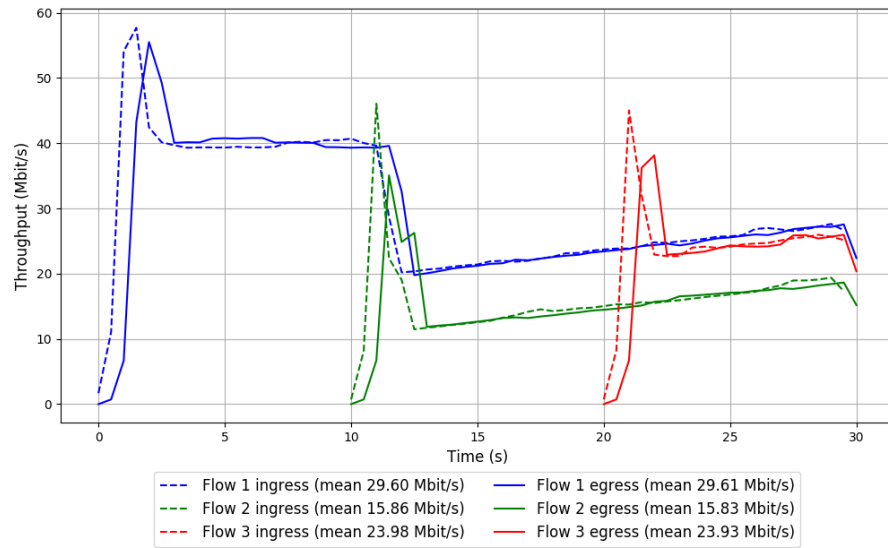
Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 98.378 ms

Loss rate: 1.80%



# Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-04 13:01:07

End at: 2018-07-04 13:01:37

Local clock offset: -2.385 ms

Remote clock offset: 3.693 ms

# Below is generated by plot.py at 2018-07-04 14:44:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 94.195 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 19.78 Mbit/s

95th percentile per-packet one-way delay: 94.962 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 19.92 Mbit/s

95th percentile per-packet one-way delay: 86.669 ms

Loss rate: 1.07%

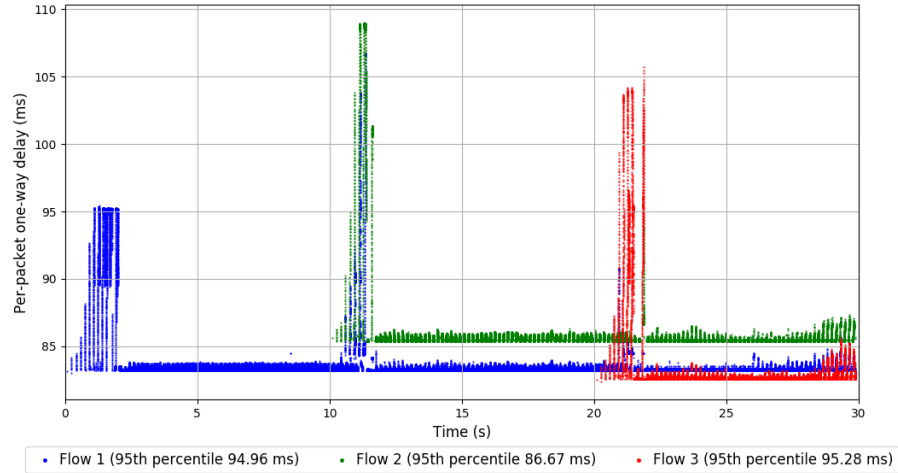
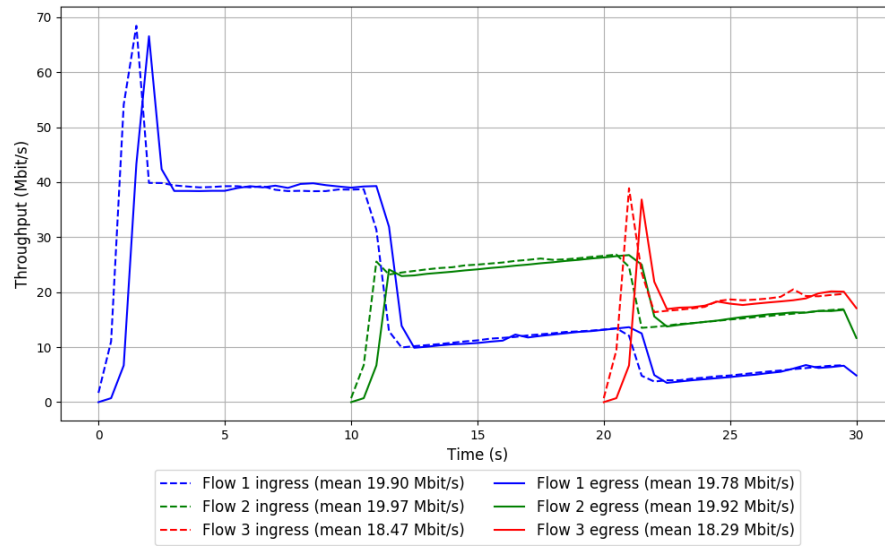
-- Flow 3:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 95.276 ms

Loss rate: 2.58%

# Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-04 13:22:30

End at: 2018-07-04 13:23:00

Local clock offset: -6.088 ms

Remote clock offset: 2.579 ms

# Below is generated by plot.py at 2018-07-04 14:44:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 93.373 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 94.132 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 91.366 ms

Loss rate: 0.64%

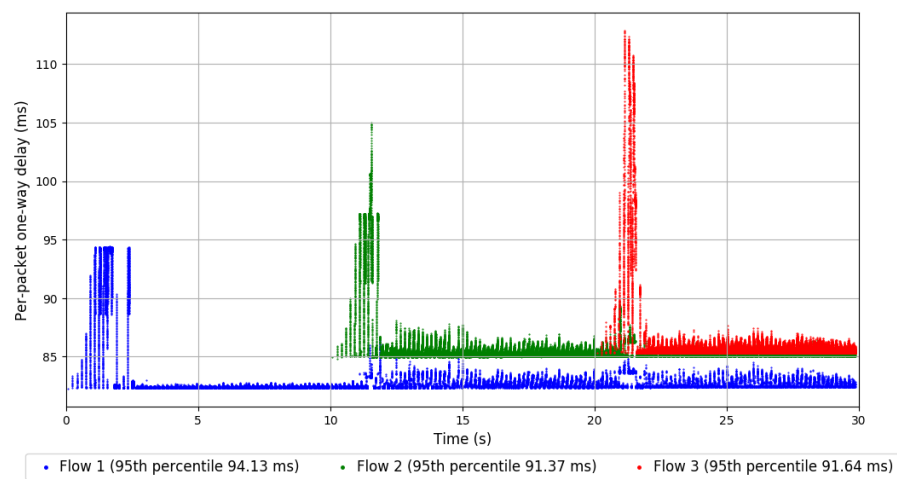
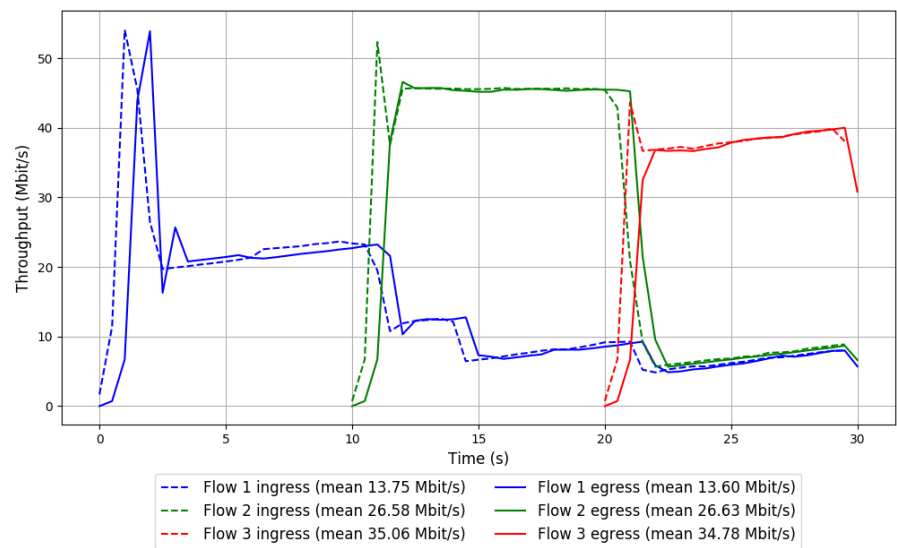
-- Flow 3:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 91.644 ms

Loss rate: 2.45%

Run 8: Report of TCP Vegas — Data Link

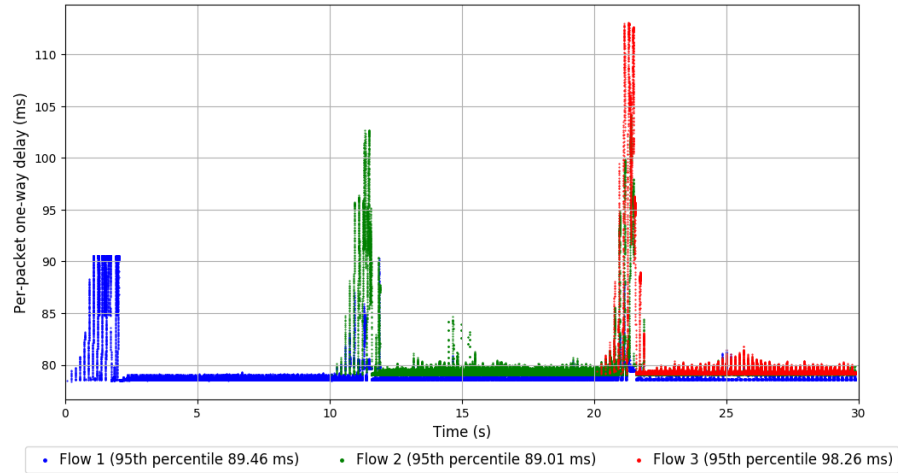
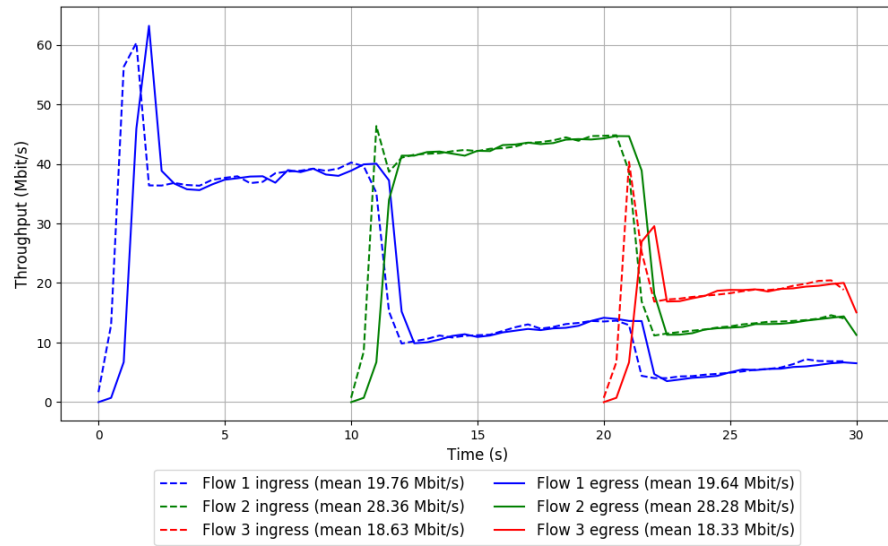


Run 9: Statistics of TCP Vegas

Start at: 2018-07-04 13:44:05  
End at: 2018-07-04 13:44:35  
Local clock offset: -5.951 ms  
Remote clock offset: 10.121 ms

# Below is generated by plot.py at 2018-07-04 14:44:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 44.44 Mbit/s  
95th percentile per-packet one-way delay: 90.291 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 19.64 Mbit/s  
95th percentile per-packet one-way delay: 89.456 ms  
Loss rate: 1.11%  
-- Flow 2:  
Average throughput: 28.28 Mbit/s  
95th percentile per-packet one-way delay: 89.013 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 18.33 Mbit/s  
95th percentile per-packet one-way delay: 98.256 ms  
Loss rate: 3.22%

# Run 9: Report of TCP Vegas — Data Link



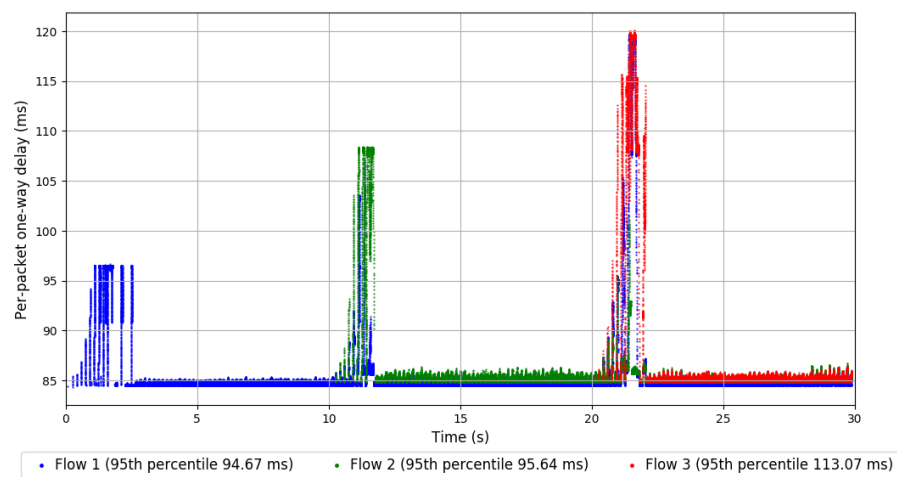
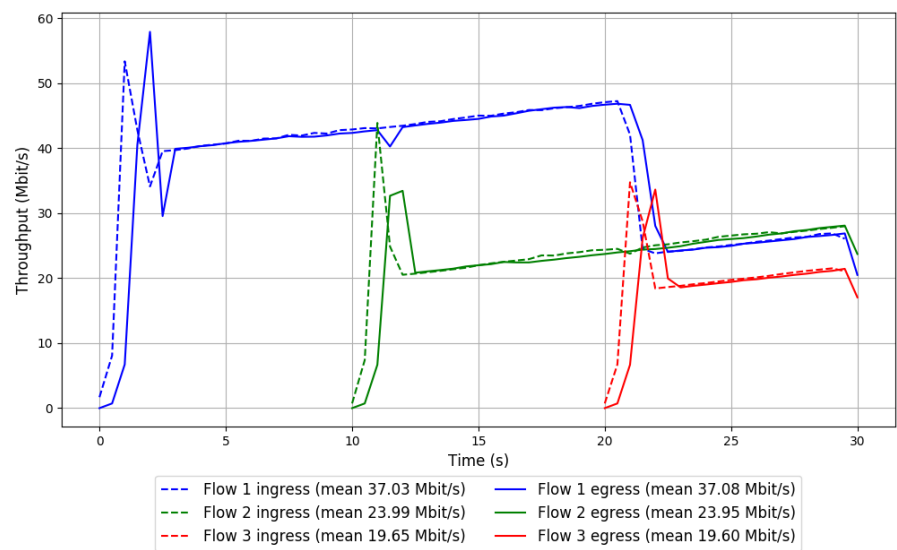
Run 10: Statistics of TCP Vegas

Start at: 2018-07-04 14:05:33  
End at: 2018-07-04 14:06:03  
Local clock offset: -2.389 ms  
Remote clock offset: 11.038 ms

# Below is generated by plot.py at 2018-07-04 14:44:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.41 Mbit/s  
95th percentile per-packet one-way delay: 96.374 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 37.08 Mbit/s  
95th percentile per-packet one-way delay: 94.666 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 23.95 Mbit/s  
95th percentile per-packet one-way delay: 95.645 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 19.60 Mbit/s  
95th percentile per-packet one-way delay: 113.073 ms  
Loss rate: 1.91%



Run 10: Report of TCP Vegas — Data Link

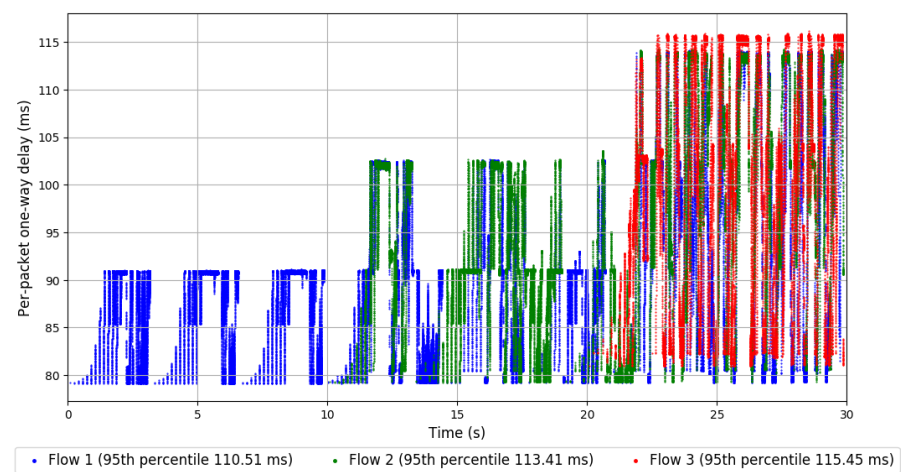
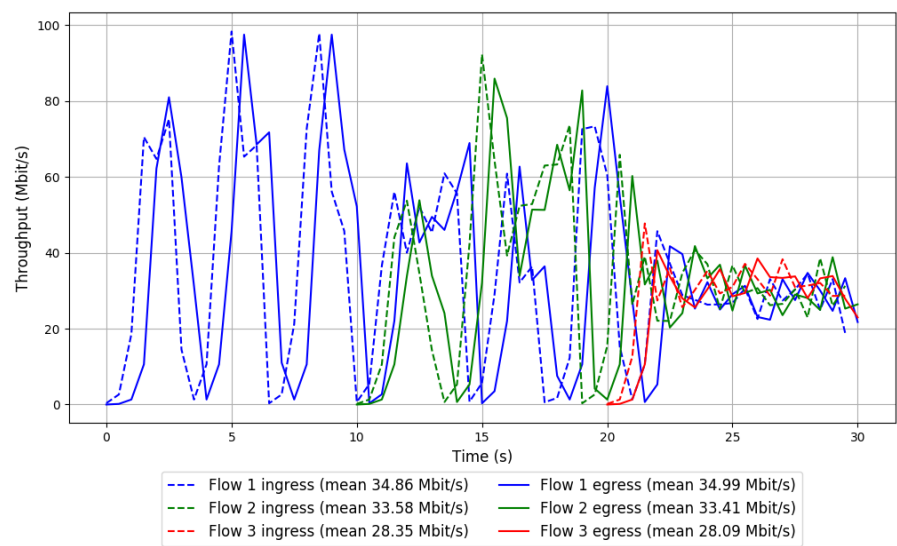


Run 1: Statistics of Verus

Start at: 2018-07-04 10:56:53  
End at: 2018-07-04 10:57:23  
Local clock offset: -2.574 ms  
Remote clock offset: 12.285 ms

# Below is generated by plot.py at 2018-07-04 14:44:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.33 Mbit/s  
95th percentile per-packet one-way delay: 113.460 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 34.99 Mbit/s  
95th percentile per-packet one-way delay: 110.512 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 33.41 Mbit/s  
95th percentile per-packet one-way delay: 113.405 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 28.09 Mbit/s  
95th percentile per-packet one-way delay: 115.455 ms  
Loss rate: 2.82%

Run 1: Report of Verus — Data Link

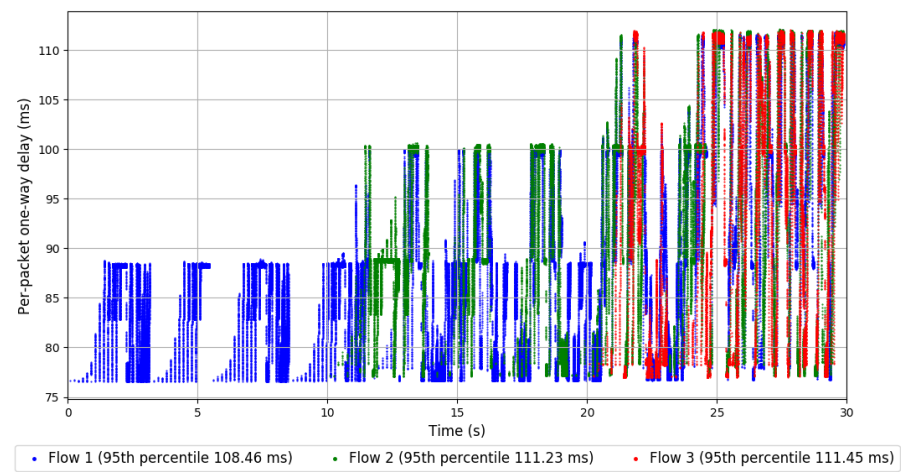
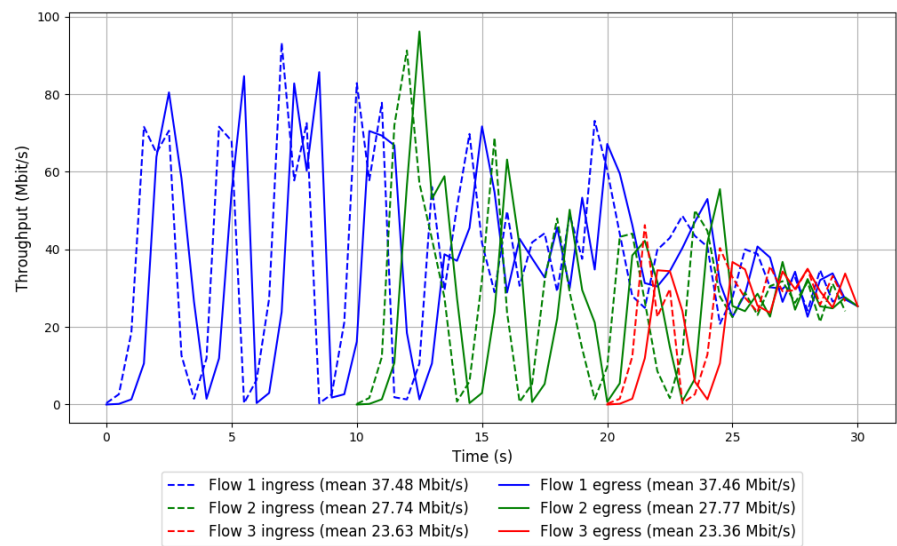


Run 2: Statistics of Verus

Start at: 2018-07-04 11:18:04  
End at: 2018-07-04 11:18:34  
Local clock offset: -5.537 ms  
Remote clock offset: 18.588 ms

# Below is generated by plot.py at 2018-07-04 14:44:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.59 Mbit/s  
95th percentile per-packet one-way delay: 110.884 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 37.46 Mbit/s  
95th percentile per-packet one-way delay: 108.457 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 27.77 Mbit/s  
95th percentile per-packet one-way delay: 111.228 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 23.36 Mbit/s  
95th percentile per-packet one-way delay: 111.451 ms  
Loss rate: 2.16%

Run 2: Report of Verus — Data Link

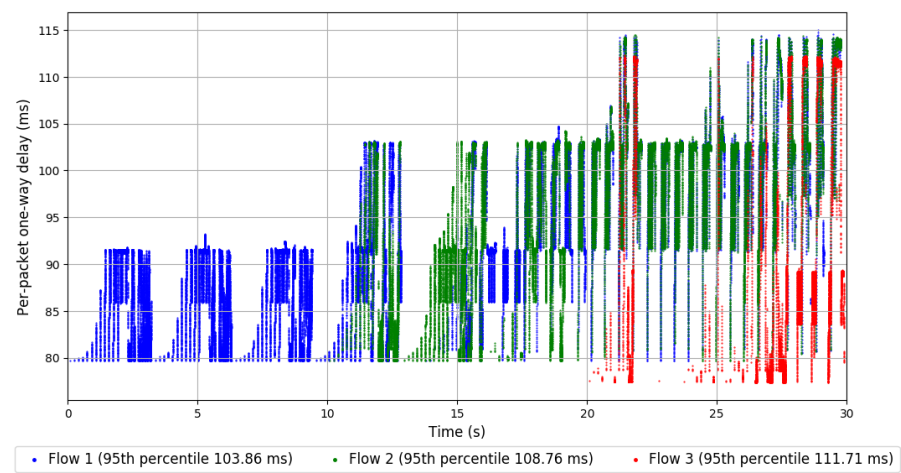
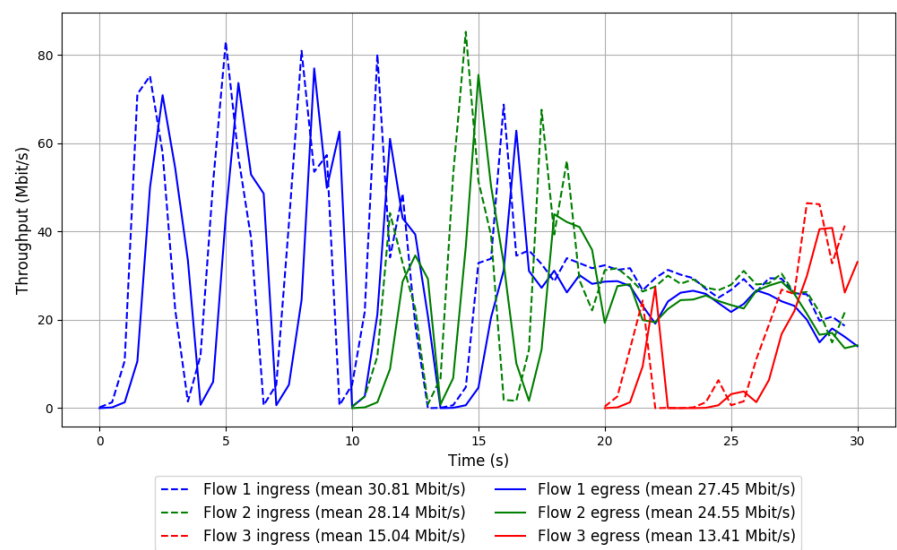


Run 3: Statistics of Verus

Start at: 2018-07-04 11:39:28  
End at: 2018-07-04 11:39:58  
Local clock offset: -8.185 ms  
Remote clock offset: 15.591 ms

# Below is generated by plot.py at 2018-07-04 14:44:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.98 Mbit/s  
95th percentile per-packet one-way delay: 108.712 ms  
Loss rate: 12.63%  
-- Flow 1:  
Average throughput: 27.45 Mbit/s  
95th percentile per-packet one-way delay: 103.860 ms  
Loss rate: 11.78%  
-- Flow 2:  
Average throughput: 24.55 Mbit/s  
95th percentile per-packet one-way delay: 108.760 ms  
Loss rate: 14.08%  
-- Flow 3:  
Average throughput: 13.41 Mbit/s  
95th percentile per-packet one-way delay: 111.708 ms  
Loss rate: 12.44%

Run 3: Report of Verus — Data Link



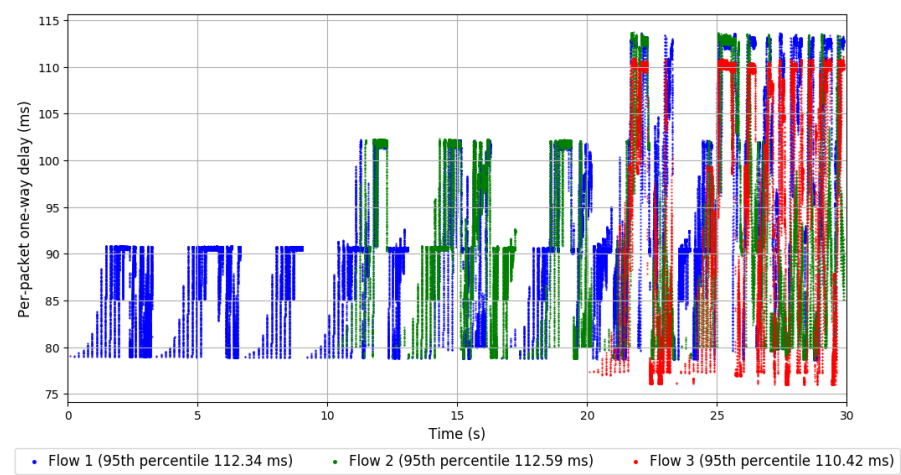
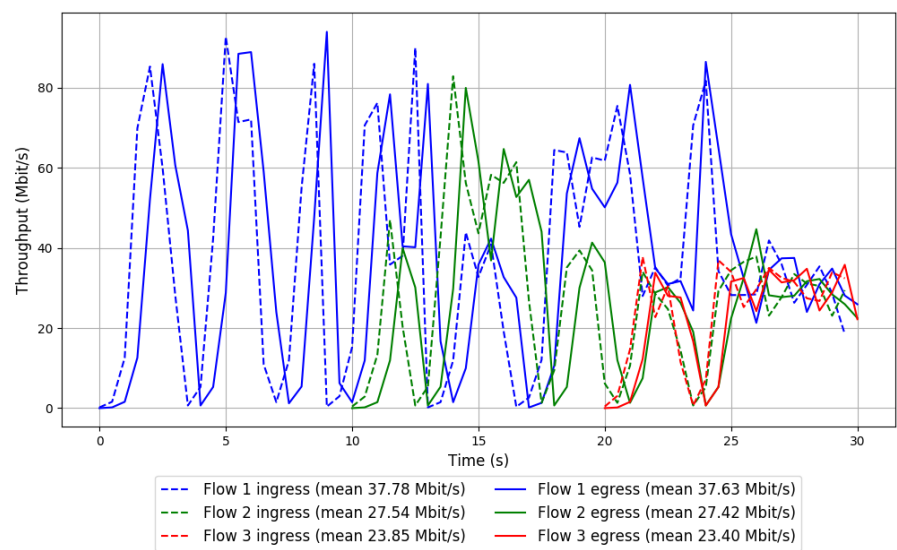
Run 4: Statistics of Verus

Start at: 2018-07-04 12:00:49  
End at: 2018-07-04 12:01:19  
Local clock offset: -1.754 ms  
Remote clock offset: 12.632 ms

# Below is generated by plot.py at 2018-07-04 14:44:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.54 Mbit/s  
95th percentile per-packet one-way delay: 111.962 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 112.337 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 27.42 Mbit/s  
95th percentile per-packet one-way delay: 112.591 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 23.40 Mbit/s  
95th percentile per-packet one-way delay: 110.415 ms  
Loss rate: 3.26%



Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-04 12:22:08

End at: 2018-07-04 12:22:38

Local clock offset: -2.366 ms

Remote clock offset: 7.206 ms

# Below is generated by plot.py at 2018-07-04 14:44:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 109.976 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 106.457 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 108.357 ms

Loss rate: 2.08%

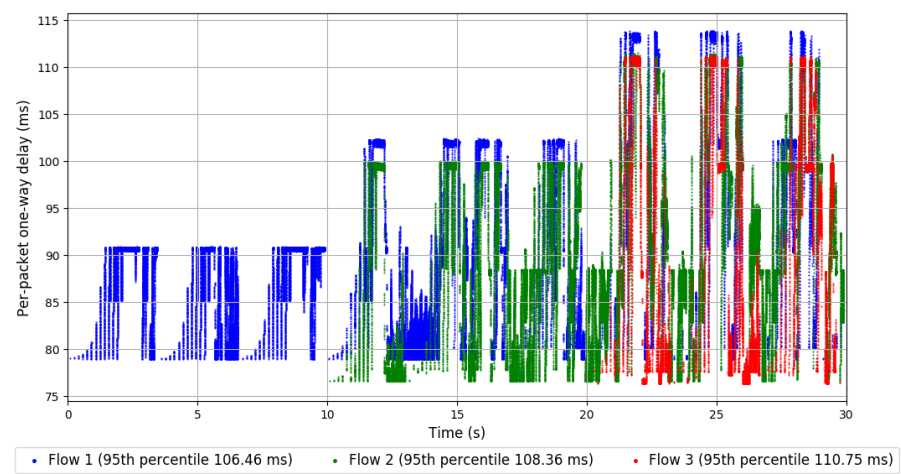
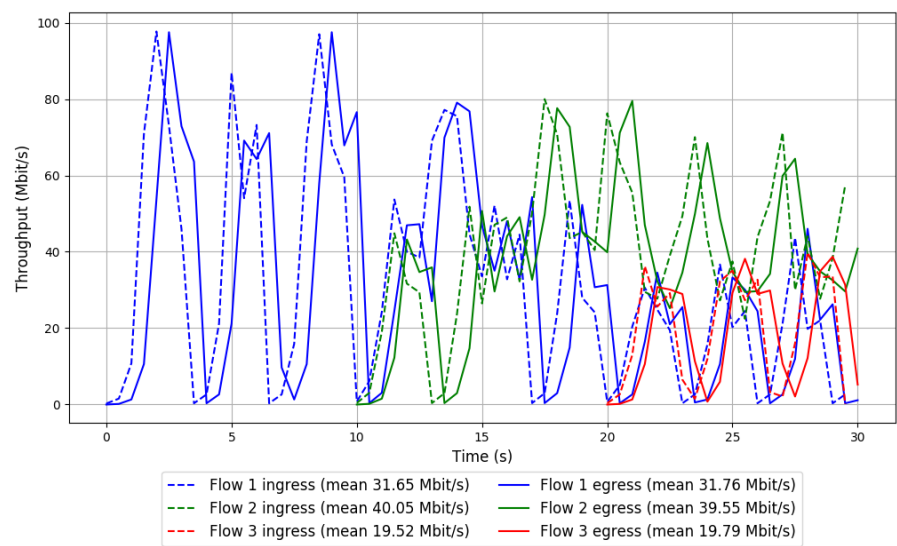
-- Flow 3:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 110.754 ms

Loss rate: 0.30%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-04 12:43:36

End at: 2018-07-04 12:44:06

Local clock offset: -2.577 ms

Remote clock offset: 4.322 ms

# Below is generated by plot.py at 2018-07-04 14:44:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 105.274 ms

Loss rate: 9.59%

-- Flow 1:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 103.381 ms

Loss rate: 8.96%

-- Flow 2:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 105.067 ms

Loss rate: 9.85%

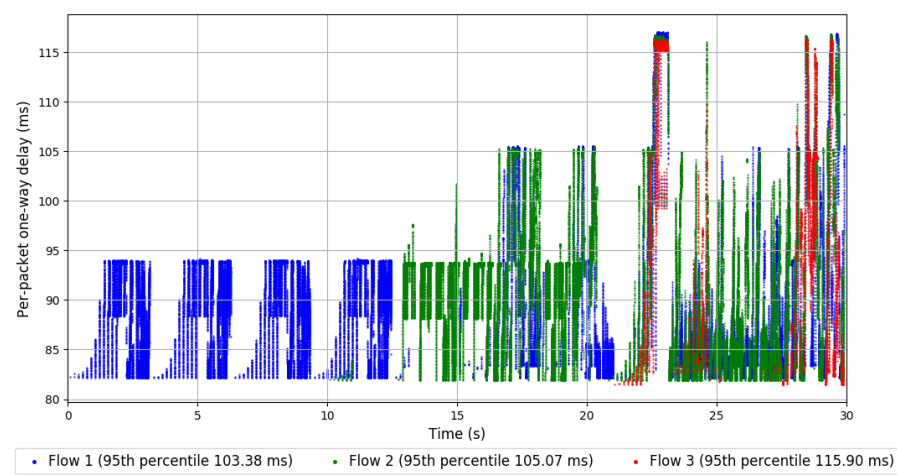
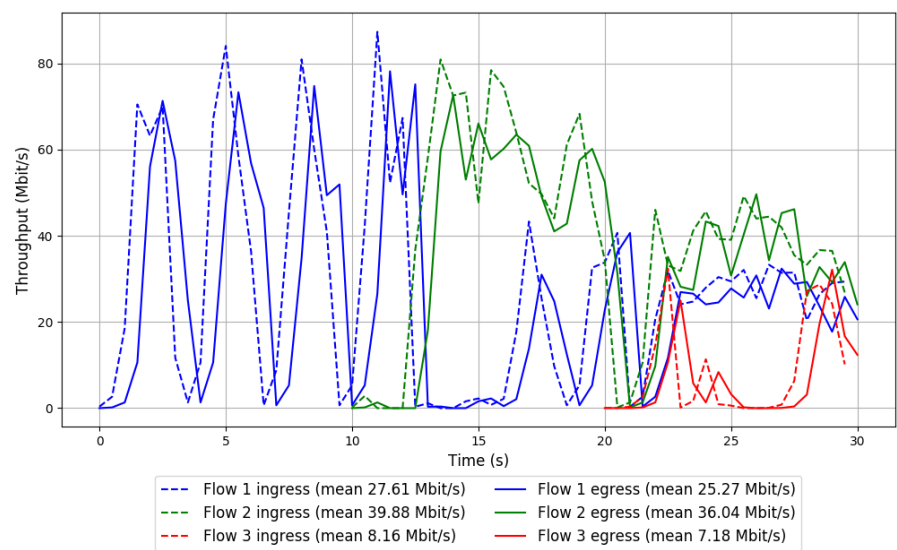
-- Flow 3:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 115.900 ms

Loss rate: 13.44%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-04 13:05:01

End at: 2018-07-04 13:05:31

Local clock offset: -2.326 ms

Remote clock offset: 3.512 ms

# Below is generated by plot.py at 2018-07-04 14:44:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 46.05 Mbit/s

95th percentile per-packet one-way delay: 113.268 ms

Loss rate: 10.39%

-- Flow 1:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 110.063 ms

Loss rate: 9.05%

-- Flow 2:

Average throughput: 20.98 Mbit/s

95th percentile per-packet one-way delay: 110.780 ms

Loss rate: 10.10%

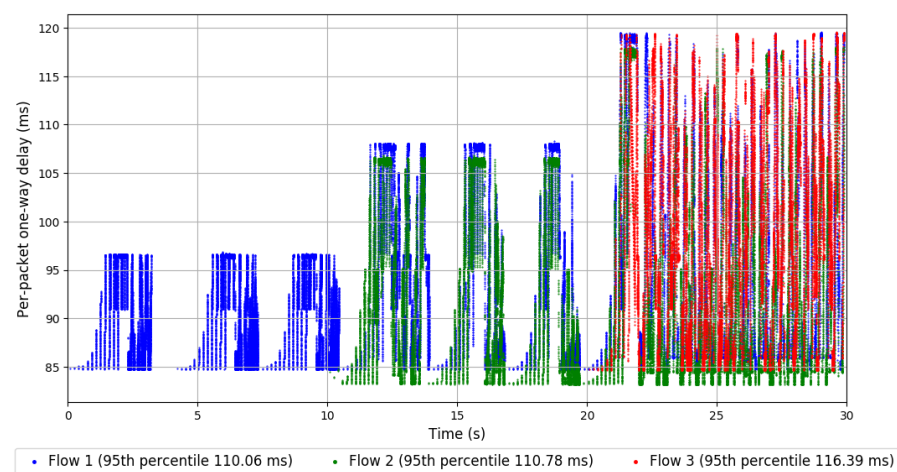
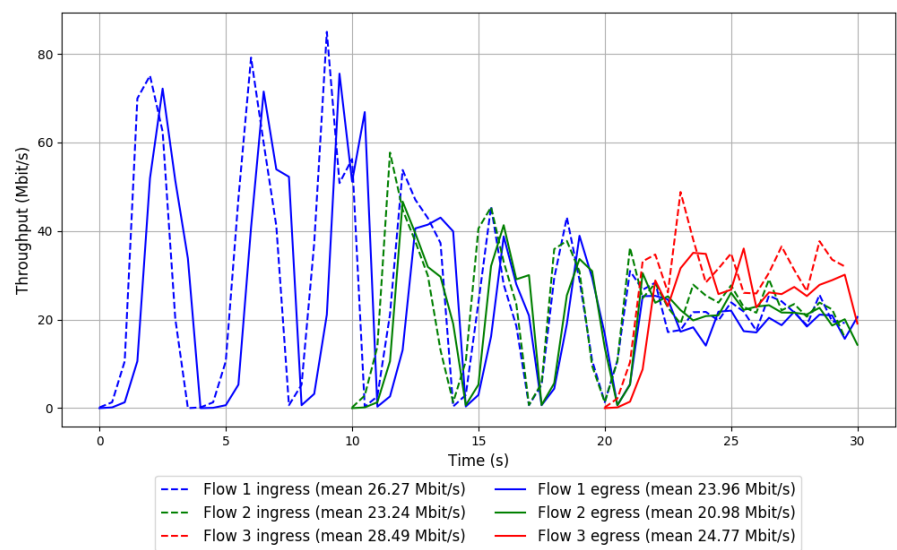
-- Flow 3:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 116.390 ms

Loss rate: 14.55%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-04 13:26:17

End at: 2018-07-04 13:26:47

Local clock offset: -6.68 ms

Remote clock offset: 3.456 ms

# Below is generated by plot.py at 2018-07-04 14:44:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.04 Mbit/s

95th percentile per-packet one-way delay: 107.140 ms

Loss rate: 11.90%

-- Flow 1:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 107.194 ms

Loss rate: 11.48%

-- Flow 2:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 104.482 ms

Loss rate: 11.93%

-- Flow 3:

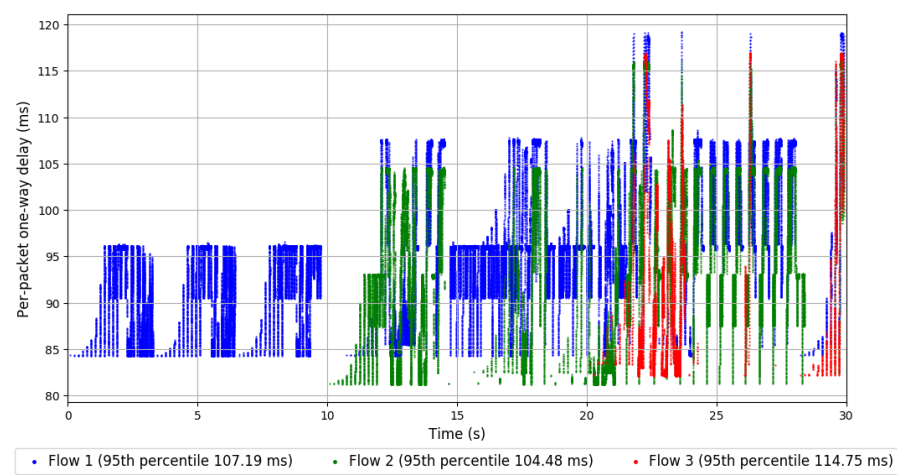
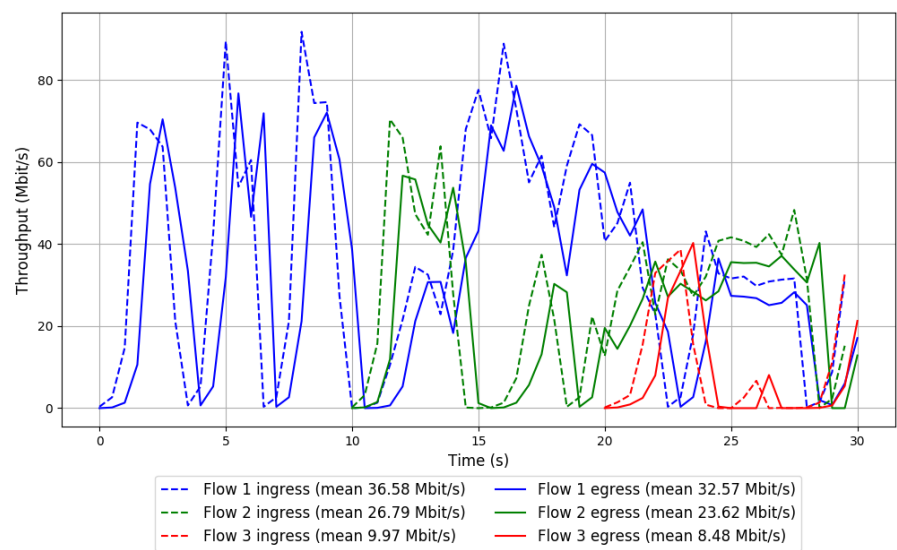
Average throughput: 8.48 Mbit/s

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

Loss rate: 16.40%



Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-04 13:48:01

End at: 2018-07-04 13:48:31

Local clock offset: -4.566 ms

Remote clock offset: 7.767 ms

# Below is generated by plot.py at 2018-07-04 14:44:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.60 Mbit/s

95th percentile per-packet one-way delay: 117.285 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 33.80 Mbit/s

95th percentile per-packet one-way delay: 115.539 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 118.756 ms

Loss rate: 1.57%

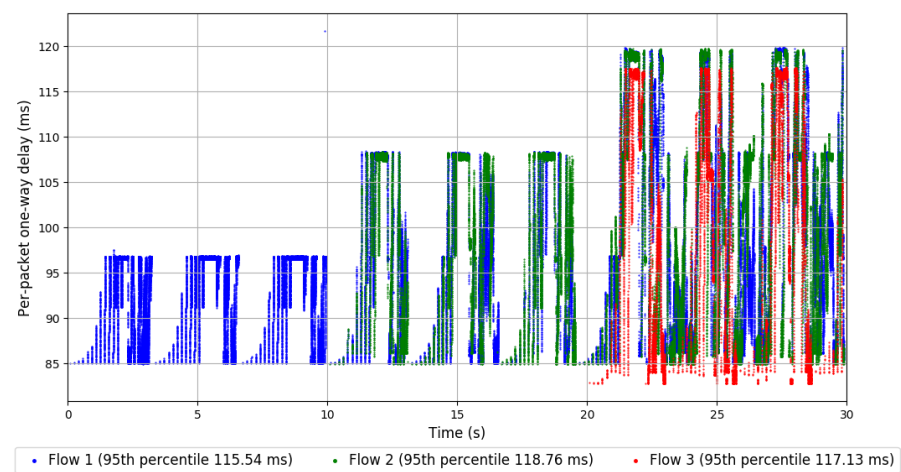
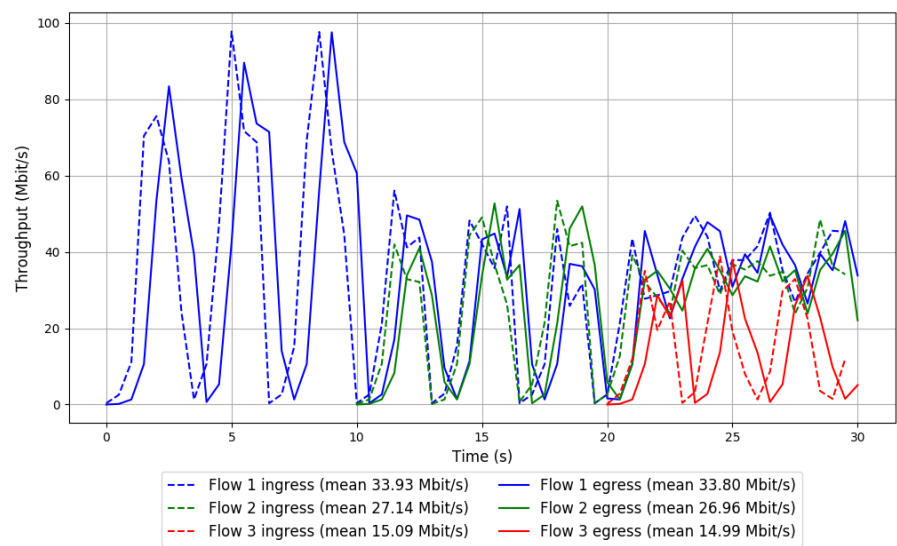
-- Flow 3:

Average throughput: 14.99 Mbit/s

95th percentile per-packet one-way delay: 117.133 ms

Loss rate: 2.56%

Run 9: Report of Verus — Data Link

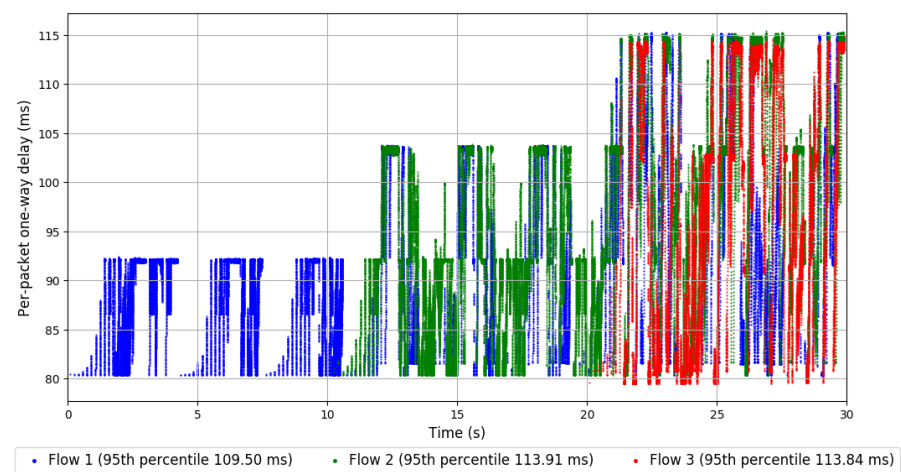
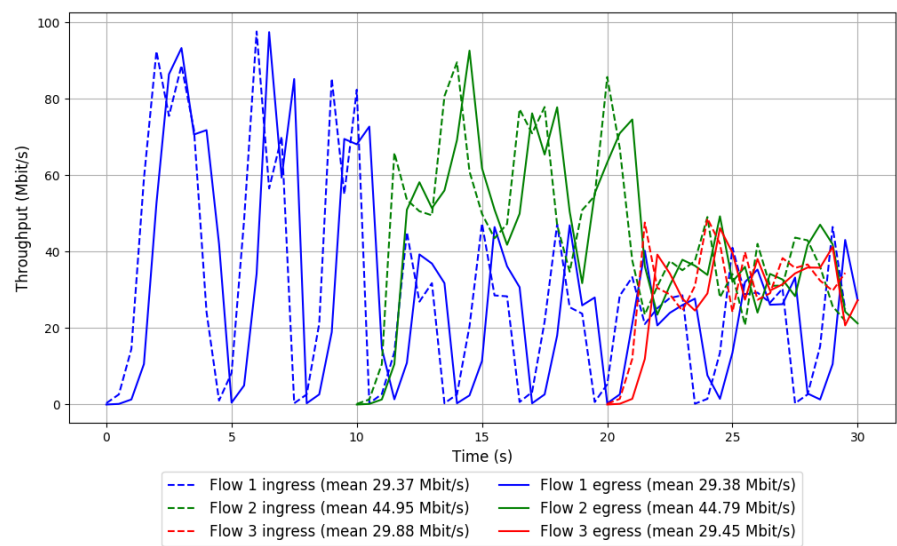


Run 10: Statistics of Verus

Start at: 2018-07-04 14:09:19  
End at: 2018-07-04 14:09:49  
Local clock offset: -2.142 ms  
Remote clock offset: 16.435 ms

# Below is generated by plot.py at 2018-07-04 14:45:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.81 Mbit/s  
95th percentile per-packet one-way delay: 113.627 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 29.38 Mbit/s  
95th percentile per-packet one-way delay: 109.496 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 44.79 Mbit/s  
95th percentile per-packet one-way delay: 113.905 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 29.45 Mbit/s  
95th percentile per-packet one-way delay: 113.845 ms  
Loss rate: 3.10%

Run 10: Report of Verus — Data Link

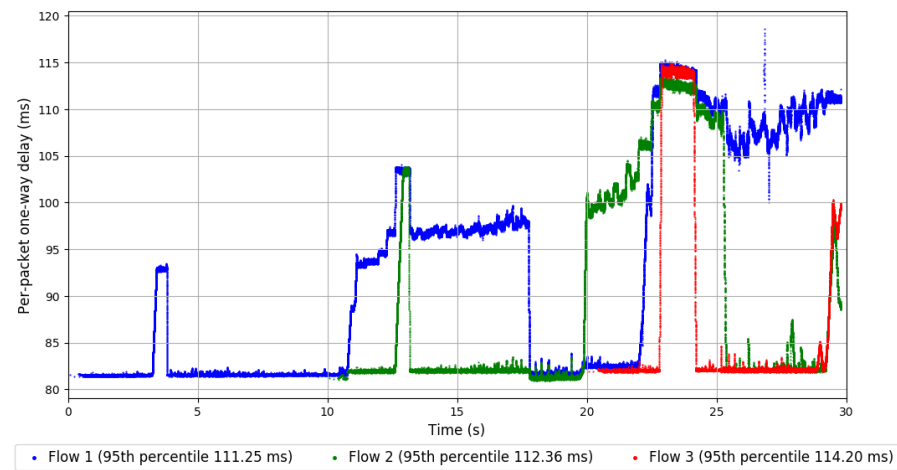
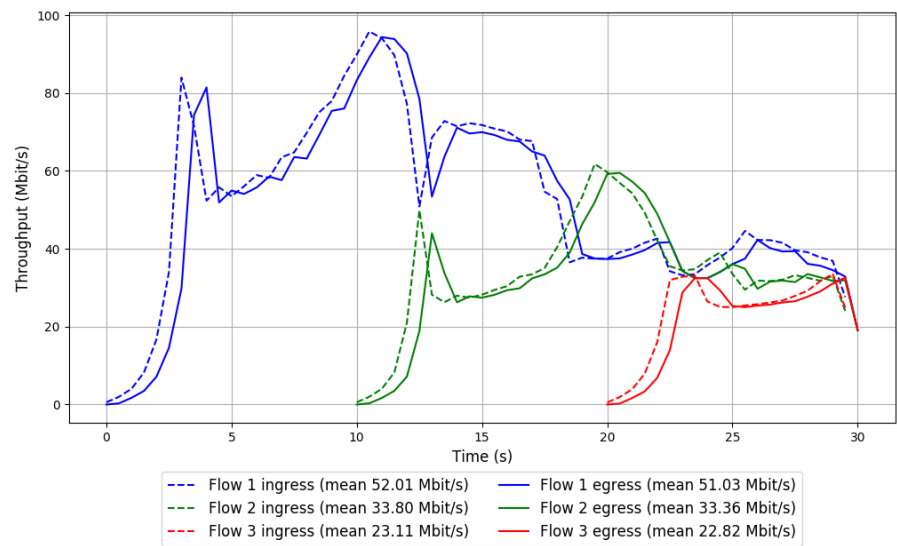


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-04 11:09:12  
End at: 2018-07-04 11:09:42  
Local clock offset: -2.673 ms  
Remote clock offset: 12.143 ms

# Below is generated by plot.py at 2018-07-04 14:45:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.61 Mbit/s  
95th percentile per-packet one-way delay: 112.337 ms  
Loss rate: 2.41%  
-- Flow 1:  
Average throughput: 51.03 Mbit/s  
95th percentile per-packet one-way delay: 111.249 ms  
Loss rate: 2.45%  
-- Flow 2:  
Average throughput: 33.36 Mbit/s  
95th percentile per-packet one-way delay: 112.365 ms  
Loss rate: 2.15%  
-- Flow 3:  
Average throughput: 22.82 Mbit/s  
95th percentile per-packet one-way delay: 114.205 ms  
Loss rate: 2.94%

Run 1: Report of PCC-Vivace — Data Link



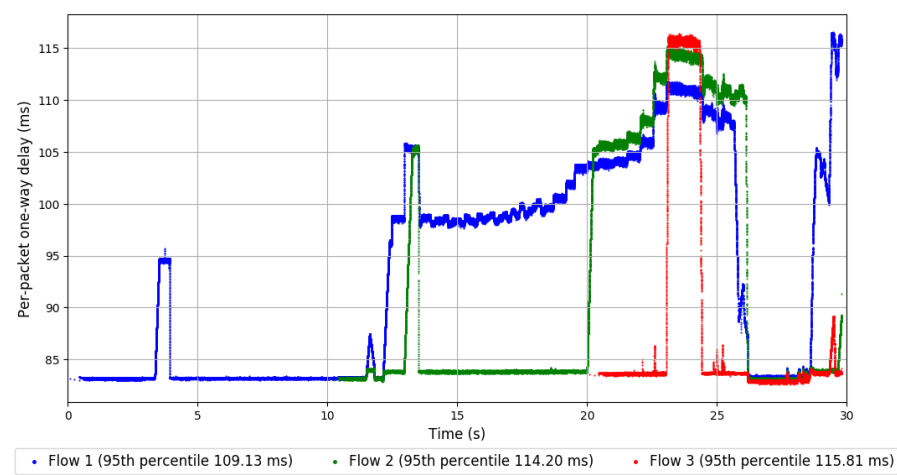
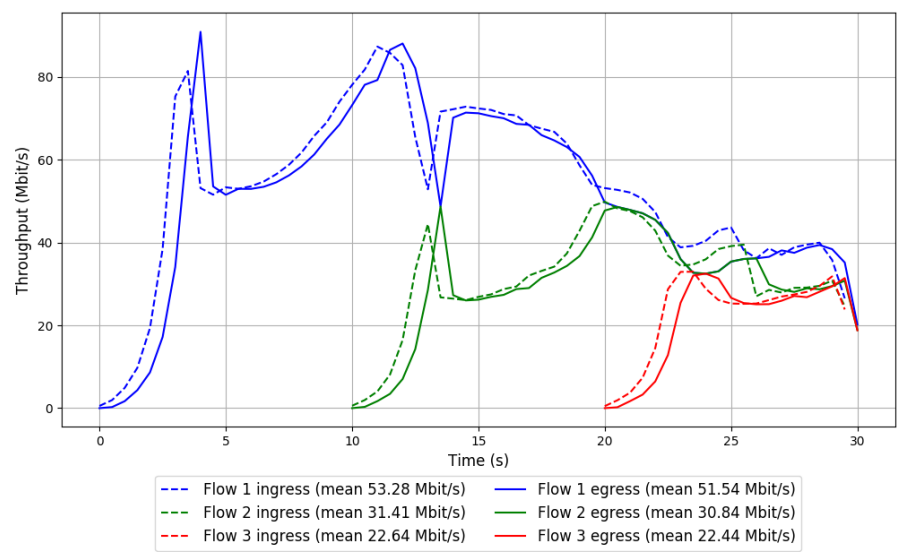
Run 2: Statistics of PCC-Vivace

Start at: 2018-07-04 11:30:24  
End at: 2018-07-04 11:30:54  
Local clock offset: -7.401 ms  
Remote clock offset: 10.745 ms

# Below is generated by plot.py at 2018-07-04 14:45:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.32 Mbit/s  
95th percentile per-packet one-way delay: 111.855 ms  
Loss rate: 3.41%  
-- Flow 1:  
Average throughput: 51.54 Mbit/s  
95th percentile per-packet one-way delay: 109.134 ms  
Loss rate: 3.83%  
-- Flow 2:  
Average throughput: 30.84 Mbit/s  
95th percentile per-packet one-way delay: 114.197 ms  
Loss rate: 2.64%  
-- Flow 3:  
Average throughput: 22.44 Mbit/s  
95th percentile per-packet one-way delay: 115.811 ms  
Loss rate: 2.59%



Run 2: Report of PCC-Vivace — Data Link

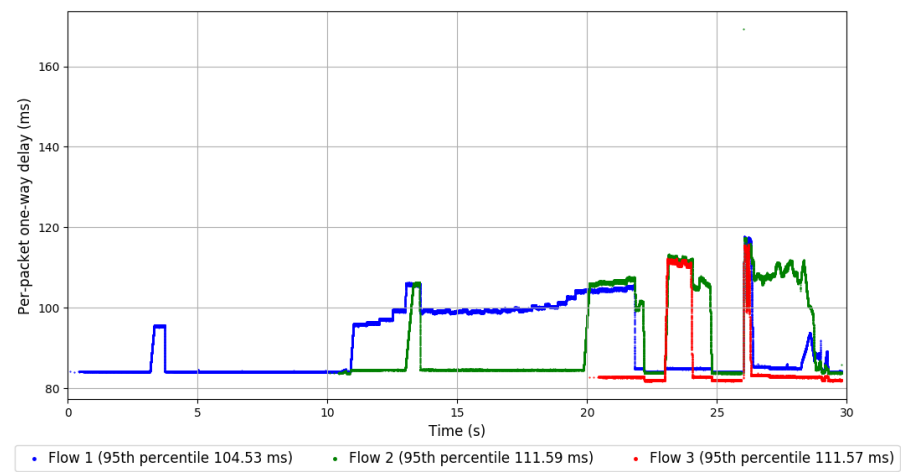
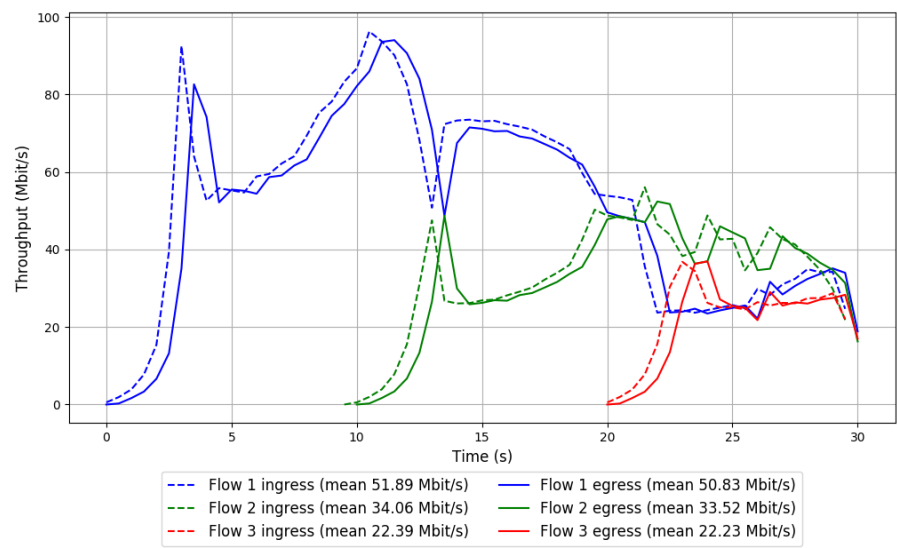


Run 3: Statistics of PCC-Vivace

Start at: 2018-07-04 11:51:51  
End at: 2018-07-04 11:52:21  
Local clock offset: -3.1 ms  
Remote clock offset: 12.155 ms

# Below is generated by plot.py at 2018-07-04 14:45:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.33 Mbit/s  
95th percentile per-packet one-way delay: 108.735 ms  
Loss rate: 2.54%  
-- Flow 1:  
Average throughput: 50.83 Mbit/s  
95th percentile per-packet one-way delay: 104.526 ms  
Loss rate: 2.61%  
-- Flow 2:  
Average throughput: 33.52 Mbit/s  
95th percentile per-packet one-way delay: 111.595 ms  
Loss rate: 2.43%  
-- Flow 3:  
Average throughput: 22.23 Mbit/s  
95th percentile per-packet one-way delay: 111.568 ms  
Loss rate: 2.44%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-04 12:13:12

End at: 2018-07-04 12:13:42

Local clock offset: -1.545 ms

Remote clock offset: 3.573 ms

# Below is generated by plot.py at 2018-07-04 14:45:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.45 Mbit/s

95th percentile per-packet one-way delay: 84.345 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 61.36 Mbit/s

95th percentile per-packet one-way delay: 83.159 ms

Loss rate: 2.34%

-- Flow 2:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 84.410 ms

Loss rate: 2.78%

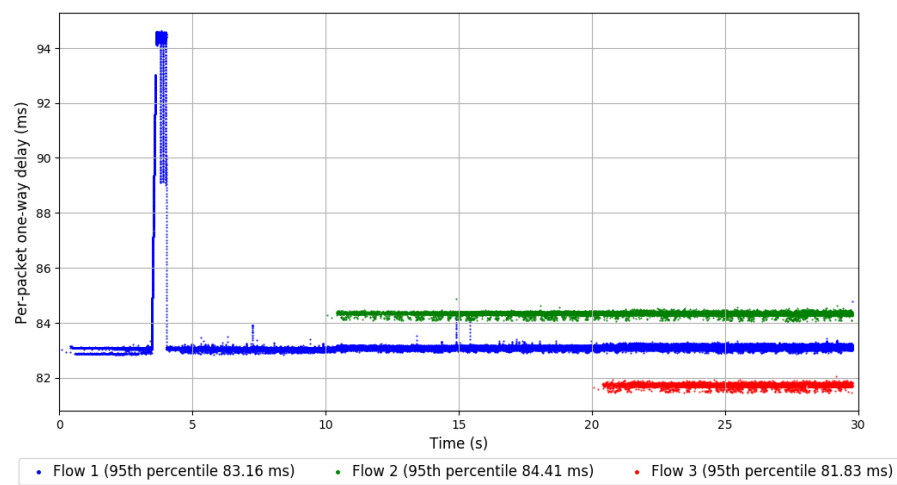
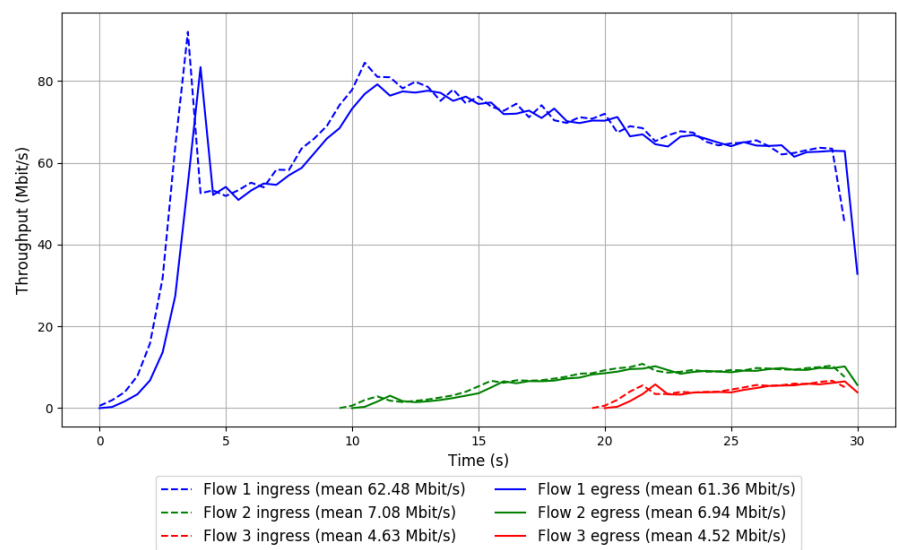
-- Flow 3:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 81.828 ms

Loss rate: 4.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-04 12:34:40

End at: 2018-07-04 12:35:10

Local clock offset: -2.644 ms

Remote clock offset: 7.081 ms

# Below is generated by plot.py at 2018-07-04 14:45:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.73 Mbit/s

95th percentile per-packet one-way delay: 109.577 ms

Loss rate: 4.08%

-- Flow 1:

Average throughput: 50.72 Mbit/s

95th percentile per-packet one-way delay: 104.498 ms

Loss rate: 3.78%

-- Flow 2:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 111.649 ms

Loss rate: 5.31%

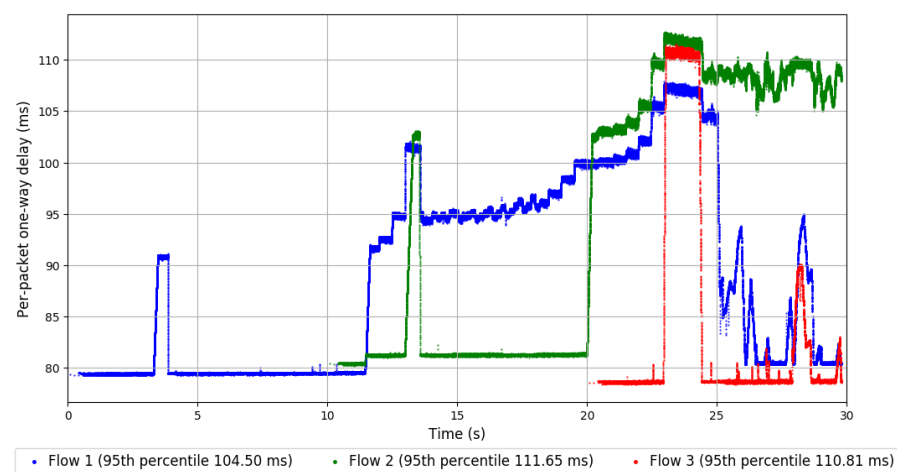
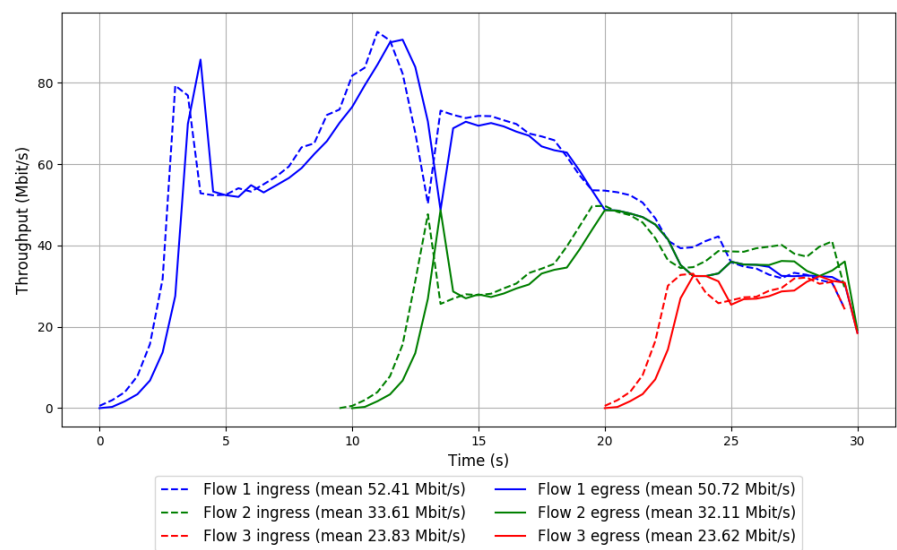
-- Flow 3:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 110.809 ms

Loss rate: 2.57%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-04 12:55:57

End at: 2018-07-04 12:56:27

Local clock offset: -2.448 ms

Remote clock offset: 4.73 ms

# Below is generated by plot.py at 2018-07-04 14:45:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 114.616 ms

Loss rate: 2.96%

-- Flow 1:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 114.375 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 32.31 Mbit/s

95th percentile per-packet one-way delay: 115.231 ms

Loss rate: 5.29%

-- Flow 3:

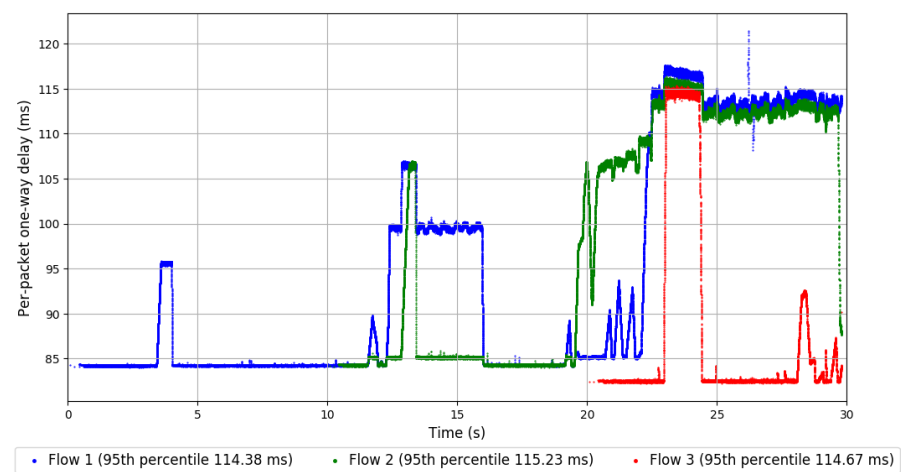
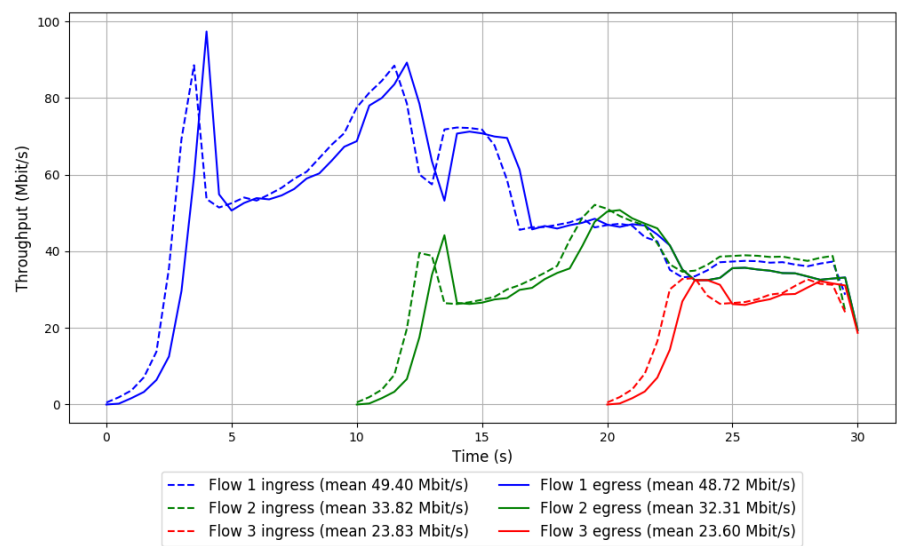
Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 114.670 ms

Loss rate: 2.63%



Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-04 13:17:21

End at: 2018-07-04 13:17:51

Local clock offset: -5.006 ms

Remote clock offset: 7.798 ms

# Below is generated by plot.py at 2018-07-04 14:46:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 106.467 ms

Loss rate: 3.75%

-- Flow 1:

Average throughput: 52.22 Mbit/s

95th percentile per-packet one-way delay: 103.565 ms

Loss rate: 4.36%

-- Flow 2:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 109.146 ms

Loss rate: 2.46%

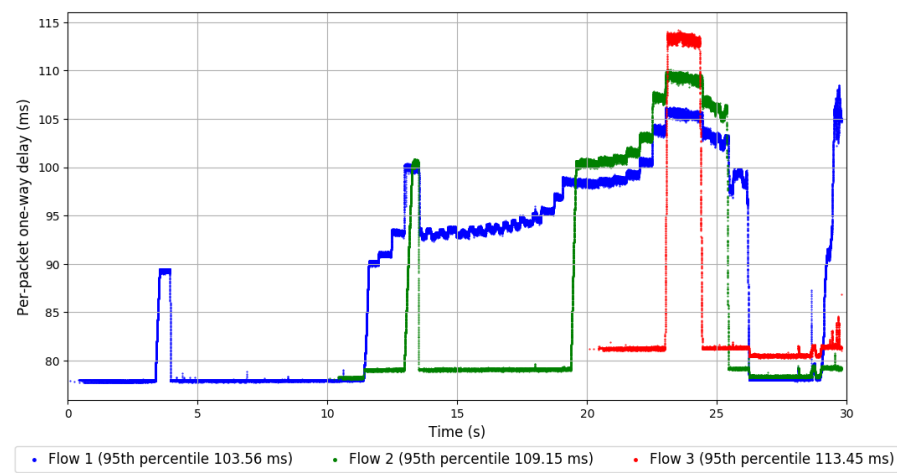
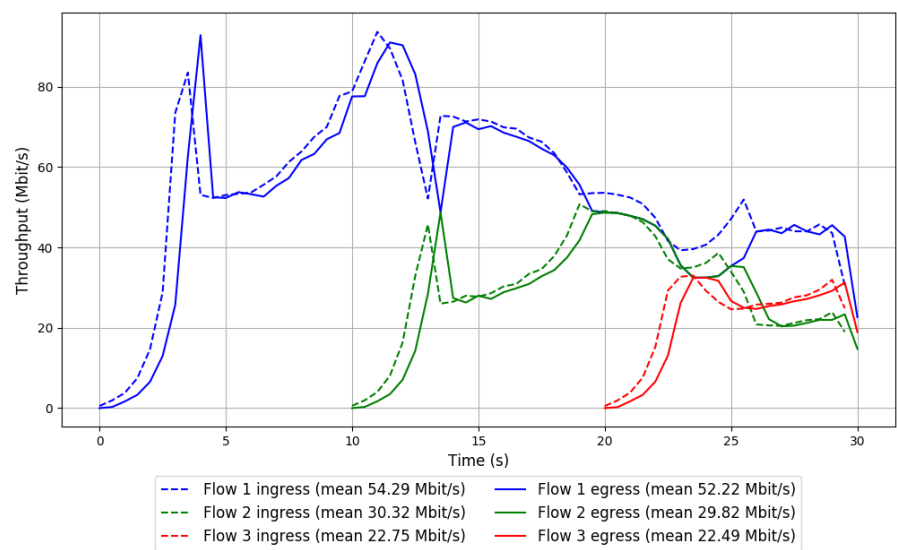
-- Flow 3:

Average throughput: 22.49 Mbit/s

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

Loss rate: 2.82%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-04 13:38:37

End at: 2018-07-04 13:39:07

Local clock offset: -7.776 ms

Remote clock offset: 4.111 ms

# Below is generated by plot.py at 2018-07-04 14:46:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.48 Mbit/s

95th percentile per-packet one-way delay: 84.774 ms

Loss rate: 2.77%

-- Flow 1:

Average throughput: 59.95 Mbit/s

95th percentile per-packet one-way delay: 81.767 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 84.856 ms

Loss rate: 3.45%

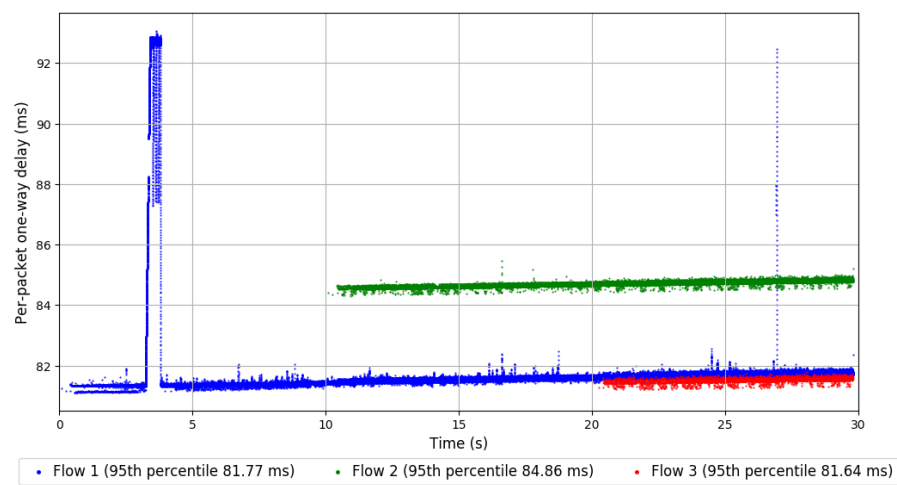
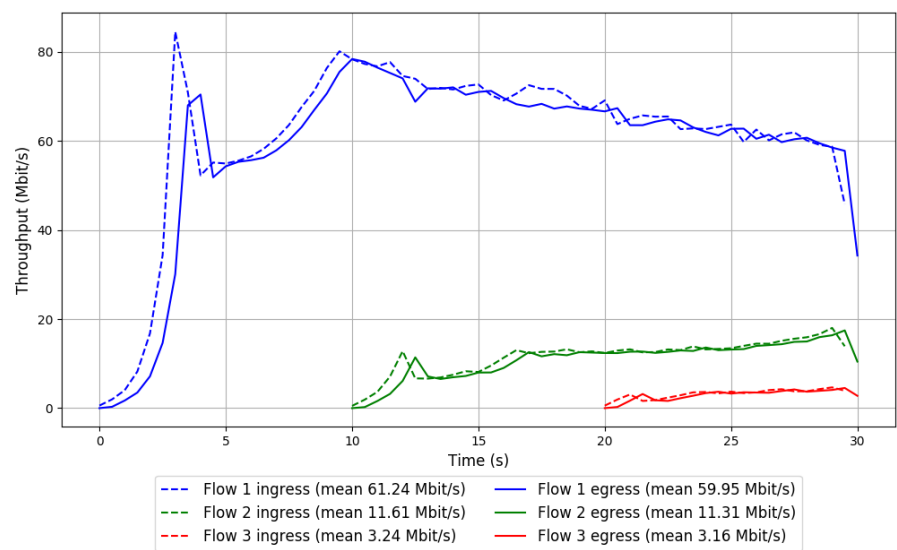
-- Flow 3:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 81.642 ms

Loss rate: 4.18%

Run 8: Report of PCC-Vivace — Data Link

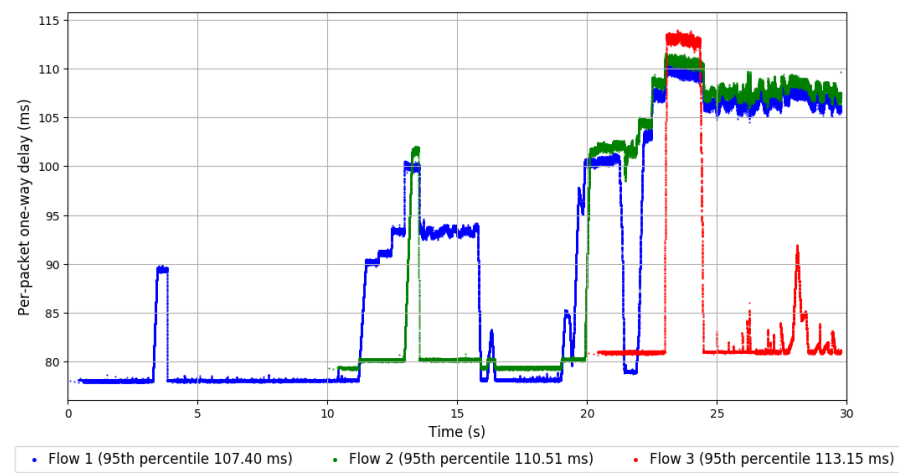
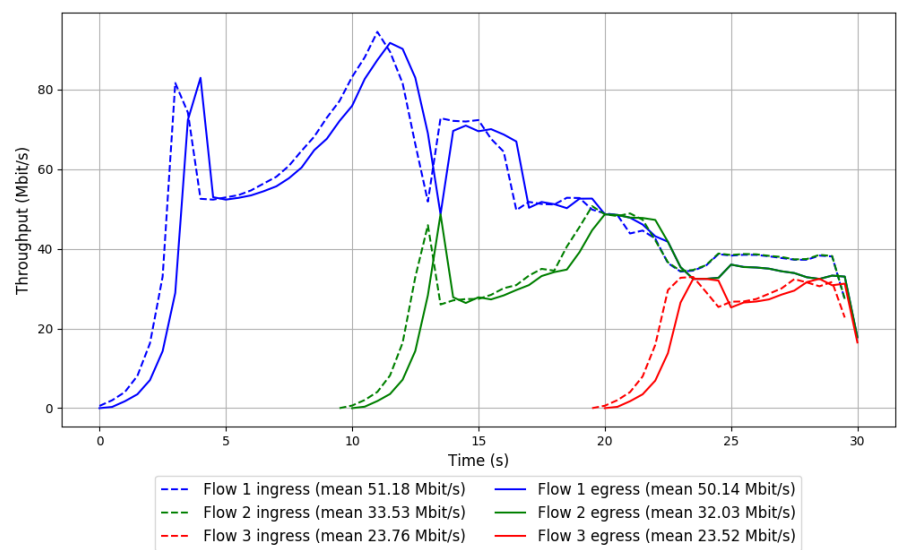


Run 9: Statistics of PCC-Vivace

Start at: 2018-07-04 14:00:22  
End at: 2018-07-04 14:00:52  
Local clock offset: -2.659 ms  
Remote clock offset: 15.399 ms

# Below is generated by plot.py at 2018-07-04 14:46:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.09 Mbit/s  
95th percentile per-packet one-way delay: 109.486 ms  
Loss rate: 3.37%  
-- Flow 1:  
Average throughput: 50.14 Mbit/s  
95th percentile per-packet one-way delay: 107.400 ms  
Loss rate: 2.61%  
-- Flow 2:  
Average throughput: 32.03 Mbit/s  
95th percentile per-packet one-way delay: 110.506 ms  
Loss rate: 5.32%  
-- Flow 3:  
Average throughput: 23.52 Mbit/s  
95th percentile per-packet one-way delay: 113.149 ms  
Loss rate: 2.74%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-04 14:21:41

End at: 2018-07-04 14:22:11

Local clock offset: -2.7 ms

Remote clock offset: 5.912 ms

# Below is generated by plot.py at 2018-07-04 14:46:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.58 Mbit/s

95th percentile per-packet one-way delay: 113.177 ms

Loss rate: 4.54%

-- Flow 1:

Average throughput: 51.04 Mbit/s

95th percentile per-packet one-way delay: 110.560 ms

Loss rate: 4.35%

-- Flow 2:

Average throughput: 33.23 Mbit/s

95th percentile per-packet one-way delay: 116.073 ms

Loss rate: 5.53%

-- Flow 3:

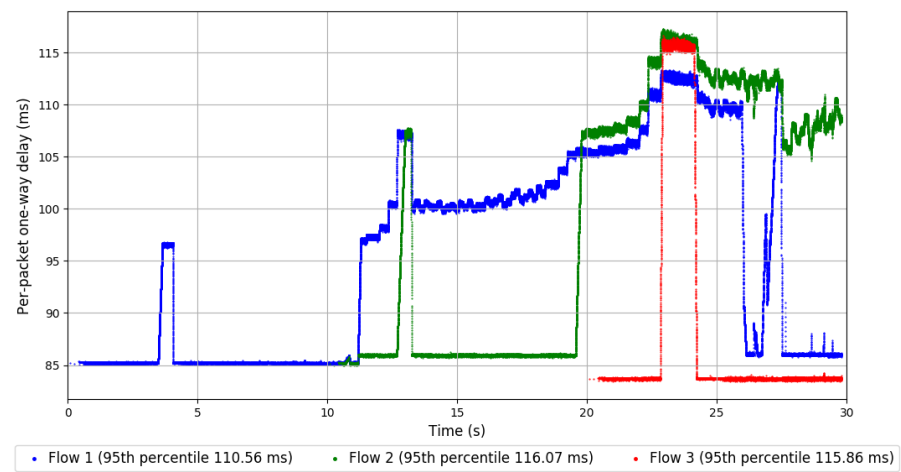
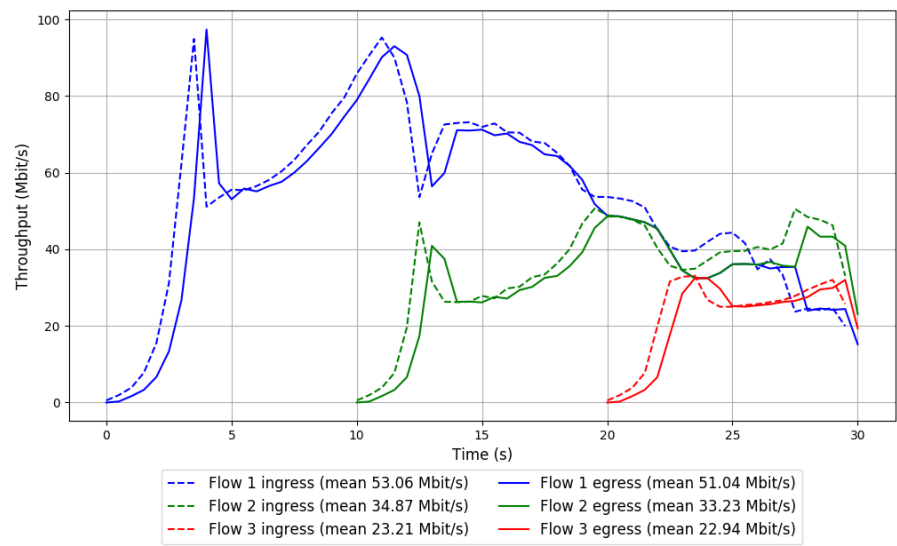
Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 115.865 ms

Loss rate: 2.87%



Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-04 11:01:44

End at: 2018-07-04 11:02:14

Local clock offset: -2.613 ms

Remote clock offset: 9.569 ms

# Below is generated by plot.py at 2018-07-04 14:46:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 83.864 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 83.927 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 83.692 ms

Loss rate: 0.71%

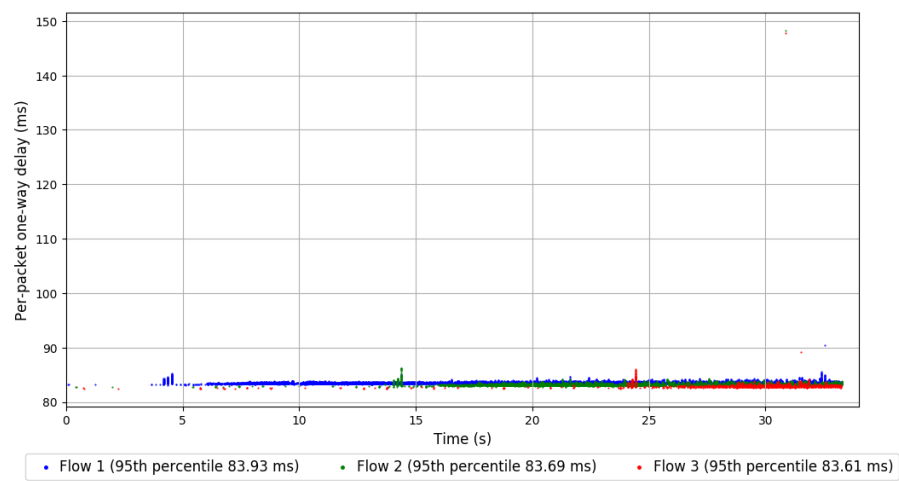
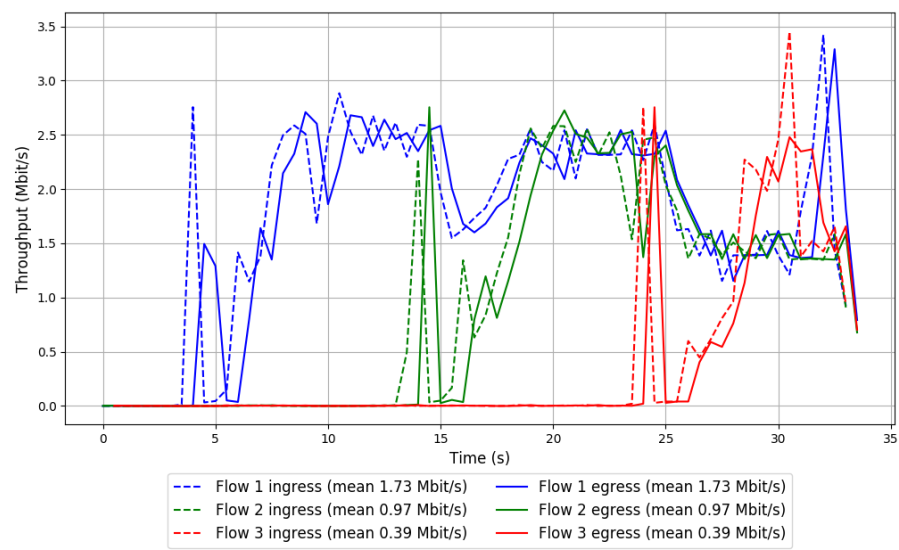
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 83.608 ms

Loss rate: 1.81%

Run 1: Report of WebRTC media — Data Link

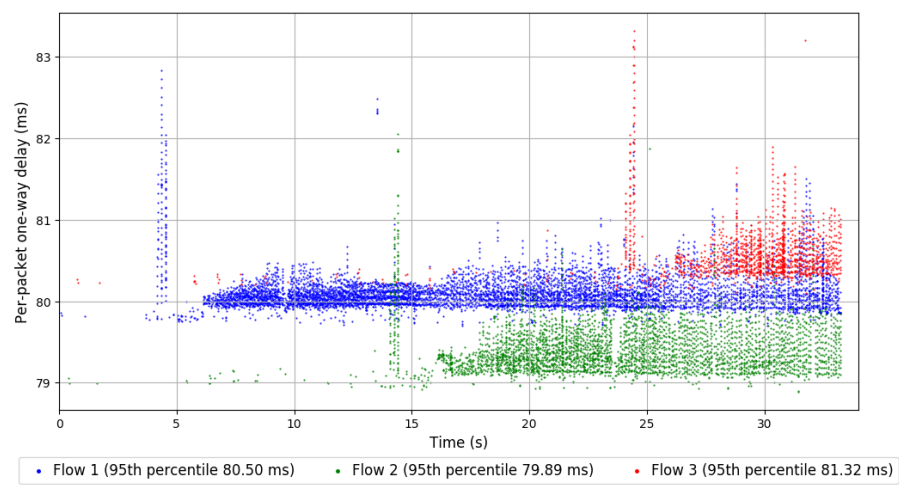
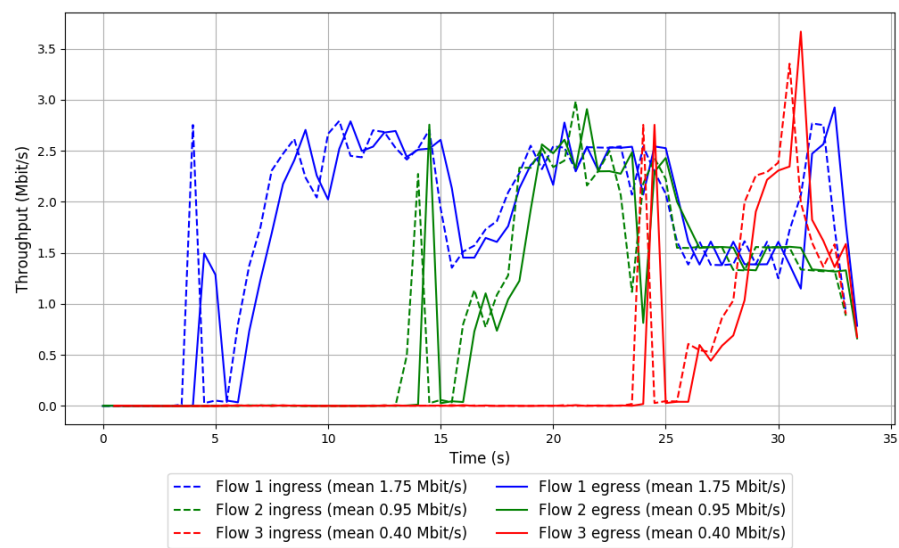


Run 2: Statistics of WebRTC media

Start at: 2018-07-04 11:22:56  
End at: 2018-07-04 11:23:26  
Local clock offset: -6.527 ms  
Remote clock offset: 17.272 ms

# Below is generated by plot.py at 2018-07-04 14:46:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.08 Mbit/s  
95th percentile per-packet one-way delay: 80.712 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 1.75 Mbit/s  
95th percentile per-packet one-way delay: 80.502 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 0.95 Mbit/s  
95th percentile per-packet one-way delay: 79.890 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 0.40 Mbit/s  
95th percentile per-packet one-way delay: 81.318 ms  
Loss rate: 1.71%

Run 2: Report of WebRTC media — Data Link

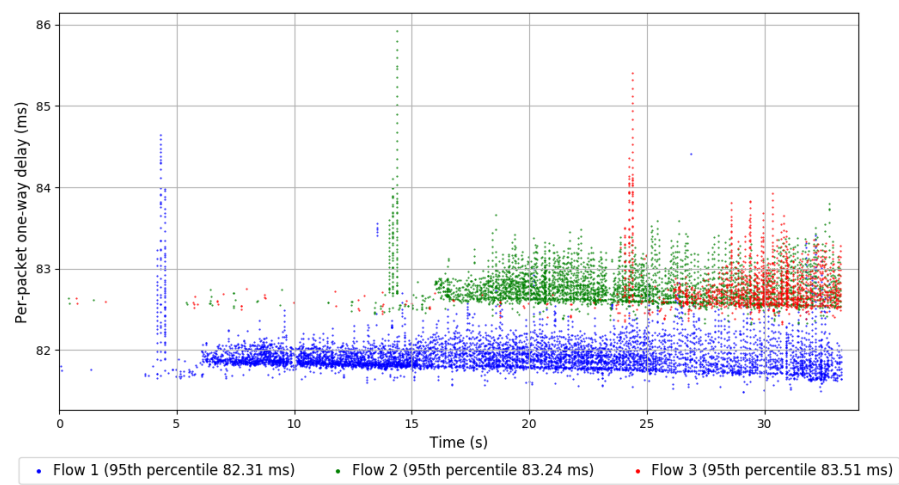
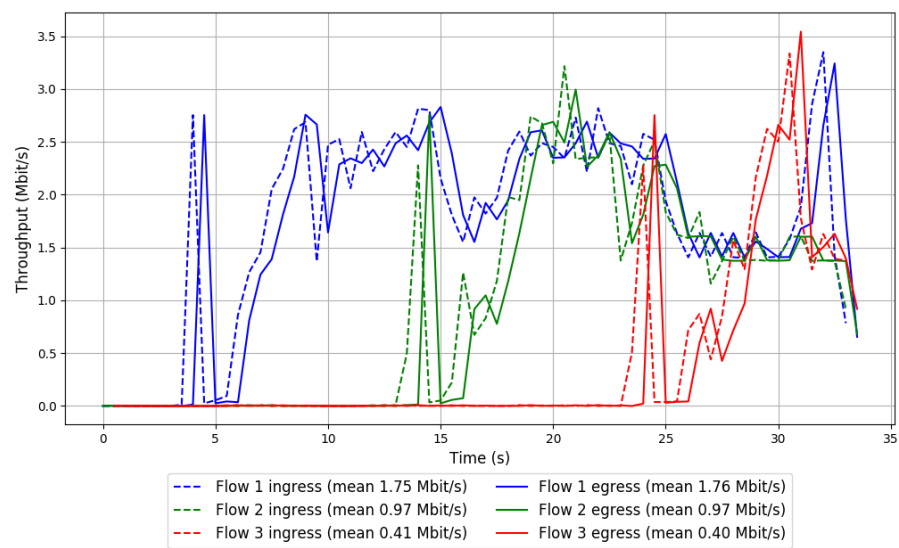


Run 3: Statistics of WebRTC media

Start at: 2018-07-04 11:44:20  
End at: 2018-07-04 11:44:50  
Local clock offset: -5.751 ms  
Remote clock offset: 10.742 ms

# Below is generated by plot.py at 2018-07-04 14:46:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.11 Mbit/s  
95th percentile per-packet one-way delay: 83.128 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 1.76 Mbit/s  
95th percentile per-packet one-way delay: 82.310 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 0.97 Mbit/s  
95th percentile per-packet one-way delay: 83.239 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 0.40 Mbit/s  
95th percentile per-packet one-way delay: 83.511 ms  
Loss rate: 2.56%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-04 12:05:41

End at: 2018-07-04 12:06:11

Local clock offset: -1.311 ms

Remote clock offset: 10.34 ms

# Below is generated by plot.py at 2018-07-04 14:46:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 79.222 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 79.112 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 77.432 ms

Loss rate: 0.72%

-- Flow 3:

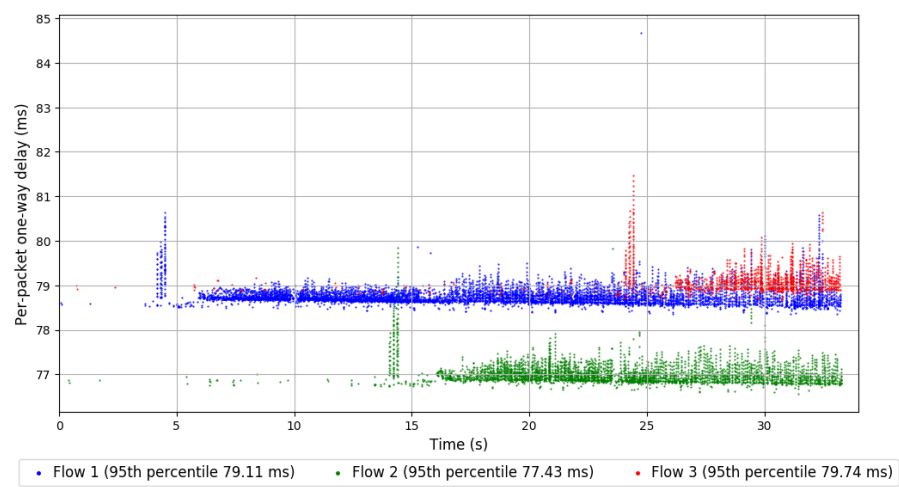
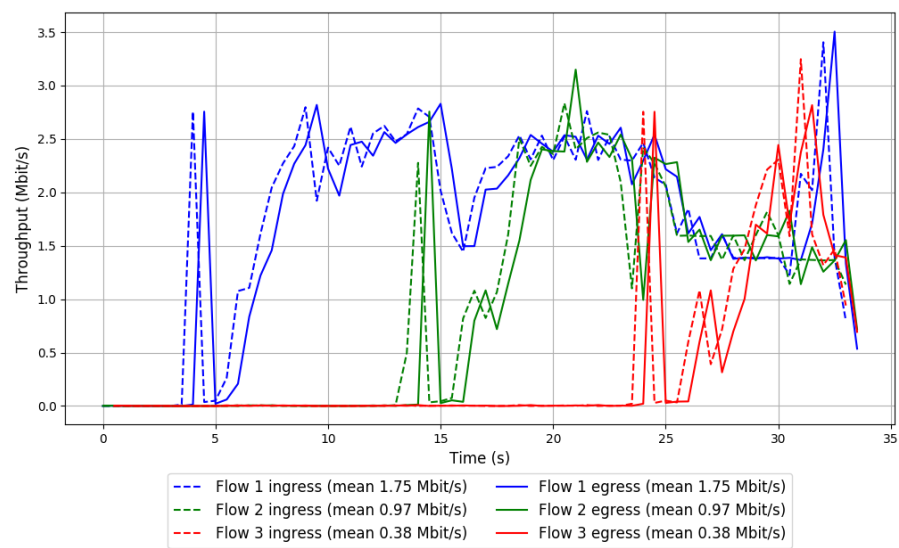
Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 79.741 ms

Loss rate: 1.91%



Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-04 12:27:01

End at: 2018-07-04 12:27:31

Local clock offset: -2.551 ms

Remote clock offset: 4.538 ms

# Below is generated by plot.py at 2018-07-04 14:46:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 81.482 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 79.450 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 78.759 ms

Loss rate: 0.36%

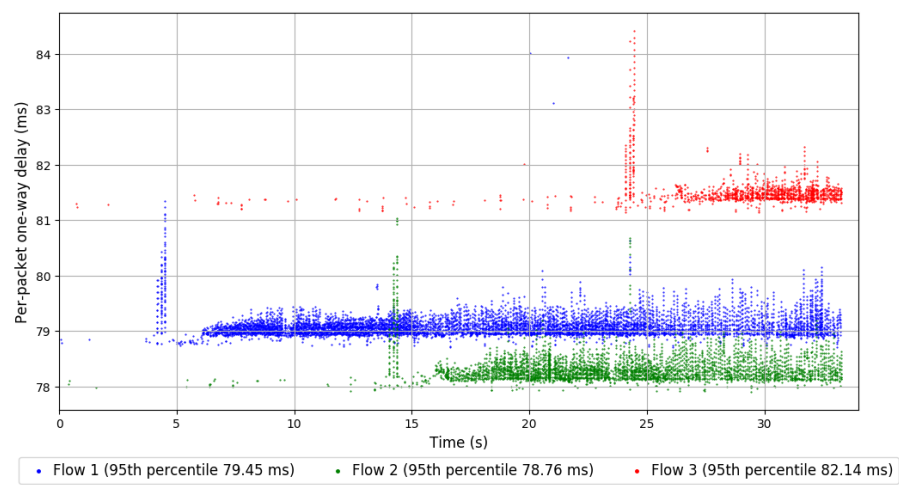
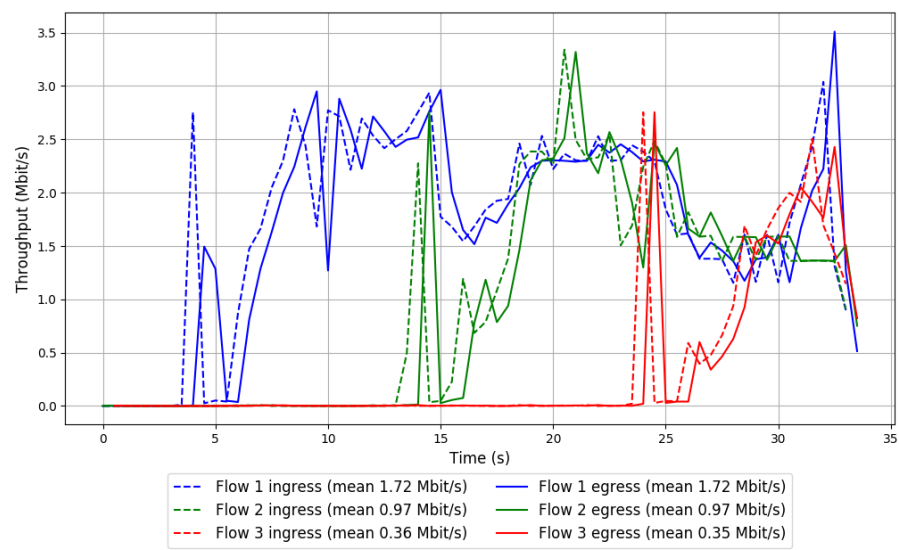
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 82.143 ms

Loss rate: 2.35%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-04 12:48:27

End at: 2018-07-04 12:48:57

Local clock offset: -2.512 ms

Remote clock offset: 9.663 ms

# Below is generated by plot.py at 2018-07-04 14:46:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 79.062 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 79.107 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 78.887 ms

Loss rate: 0.72%

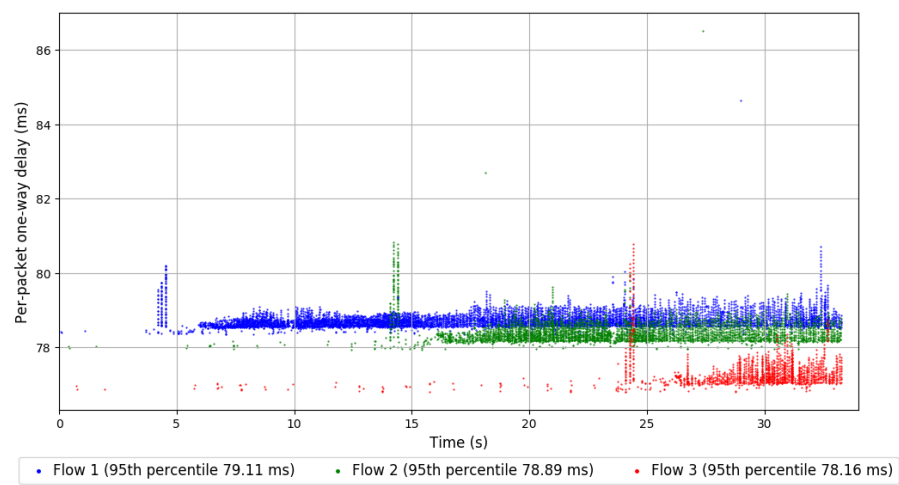
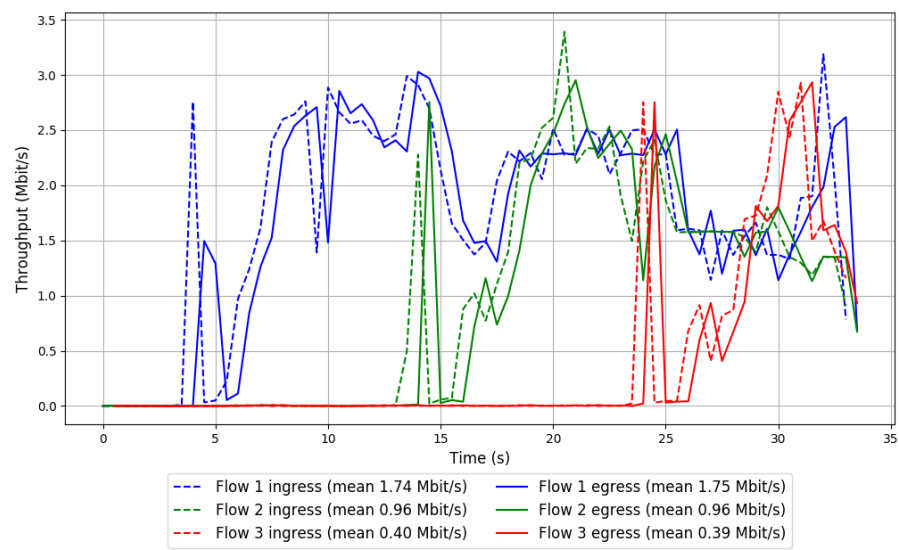
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 78.155 ms

Loss rate: 1.76%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-04 13:09:52

End at: 2018-07-04 13:10:22

Local clock offset: -2.285 ms

Remote clock offset: 3.091 ms

# Below is generated by plot.py at 2018-07-04 14:46:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 85.884 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 85.665 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 85.991 ms

Loss rate: 0.70%

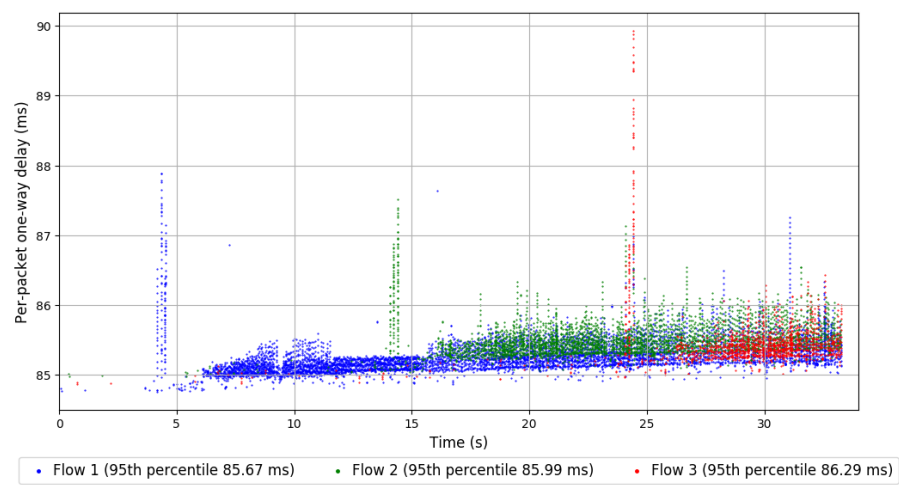
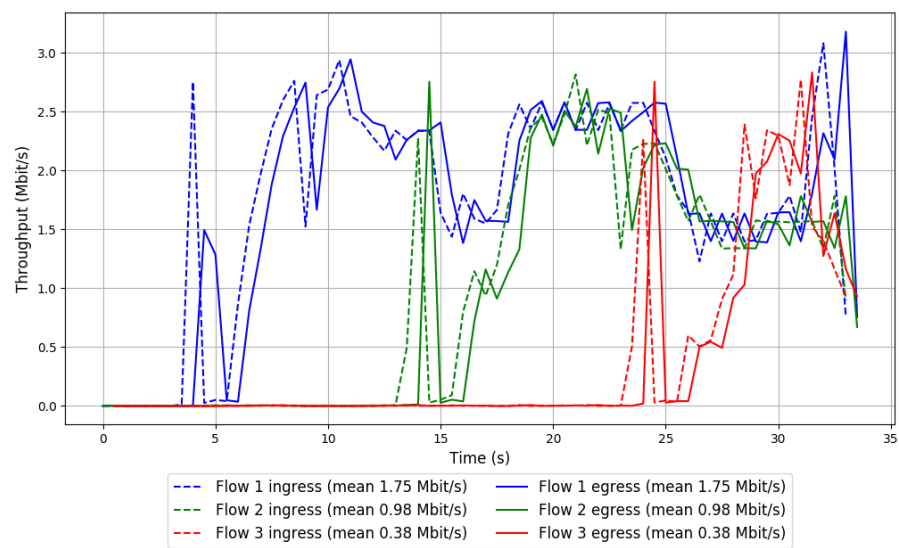
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 86.289 ms

Loss rate: 0.91%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-04 13:31:08

End at: 2018-07-04 13:31:38

Local clock offset: -7.18 ms

Remote clock offset: 3.457 ms

# Below is generated by plot.py at 2018-07-04 14:46:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 84.585 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 84.689 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 82.614 ms

Loss rate: 0.73%

-- Flow 3:

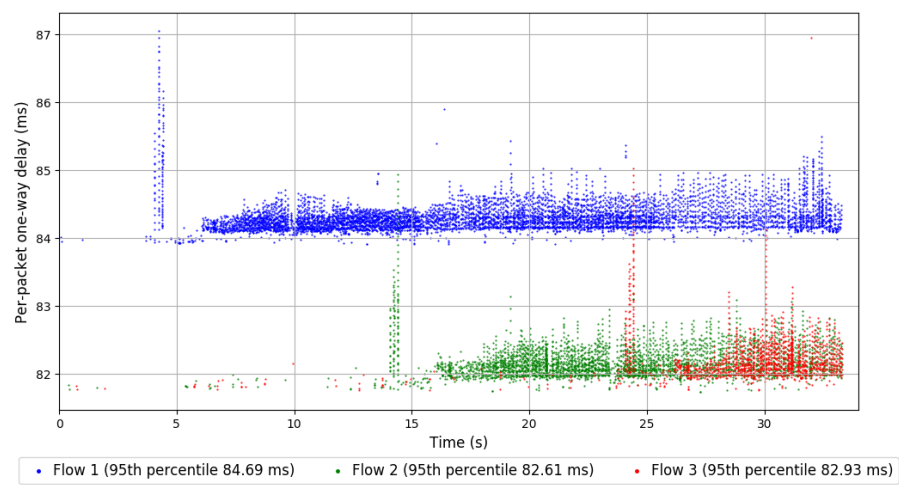
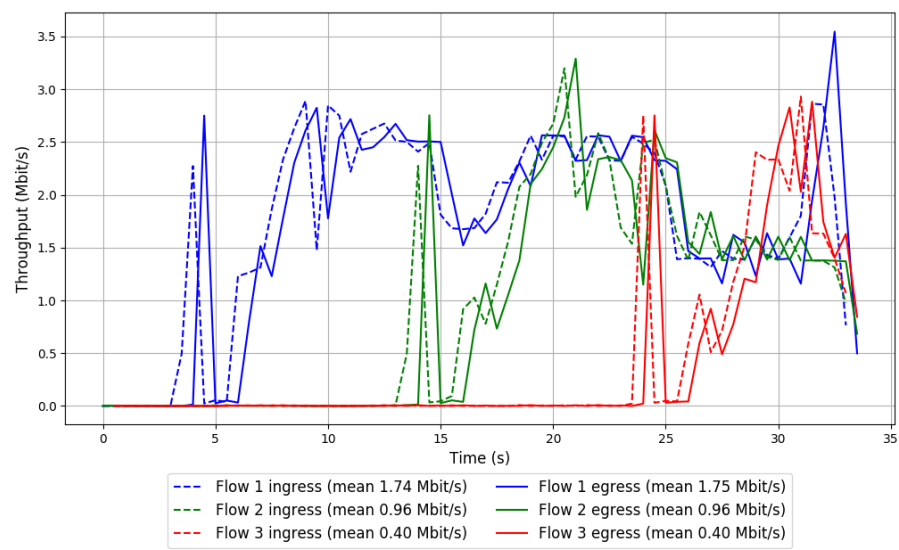
Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 82.926 ms

Loss rate: 1.73%



Run 8: Report of WebRTC media — Data Link

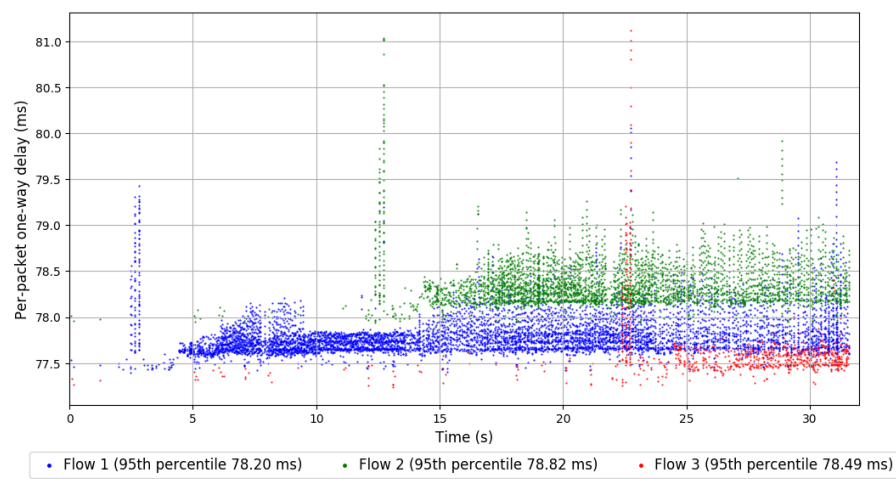
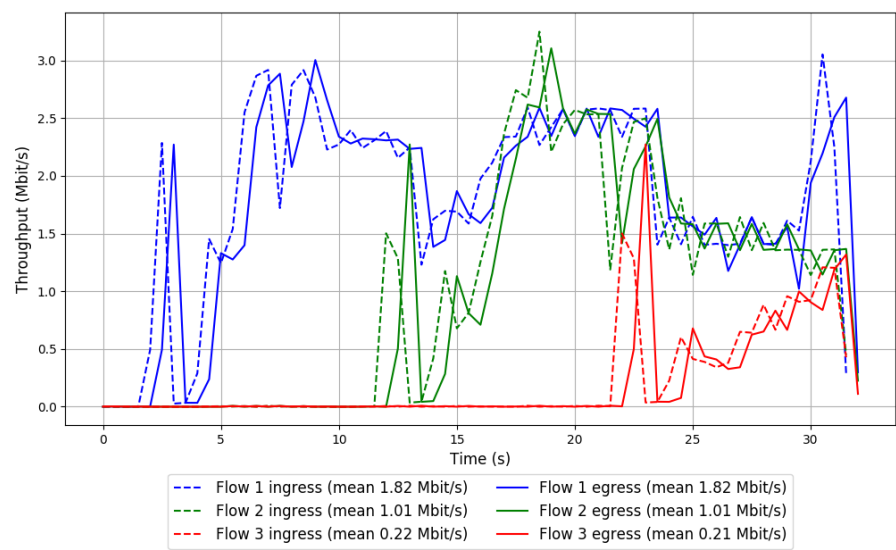


Run 9: Statistics of WebRTC media

Start at: 2018-07-04 13:52:53  
End at: 2018-07-04 13:53:23  
Local clock offset: -3.517 ms  
Remote clock offset: 14.102 ms

# Below is generated by plot.py at 2018-07-04 14:46:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.04 Mbit/s  
95th percentile per-packet one-way delay: 78.644 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 78.199 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 1.01 Mbit/s  
95th percentile per-packet one-way delay: 78.818 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 78.489 ms  
Loss rate: 3.11%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-04 14:14:11

End at: 2018-07-04 14:14:41

Local clock offset: -2.441 ms

Remote clock offset: 10.64 ms

# Below is generated by plot.py at 2018-07-04 14:46:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 83.970 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 81.341 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 84.262 ms

Loss rate: 0.71%

-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 82.063 ms

Loss rate: 1.74%

Run 10: Report of WebRTC media — Data Link

