

## Pantheon Report

Generated at 2018-05-24 21:48:13 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

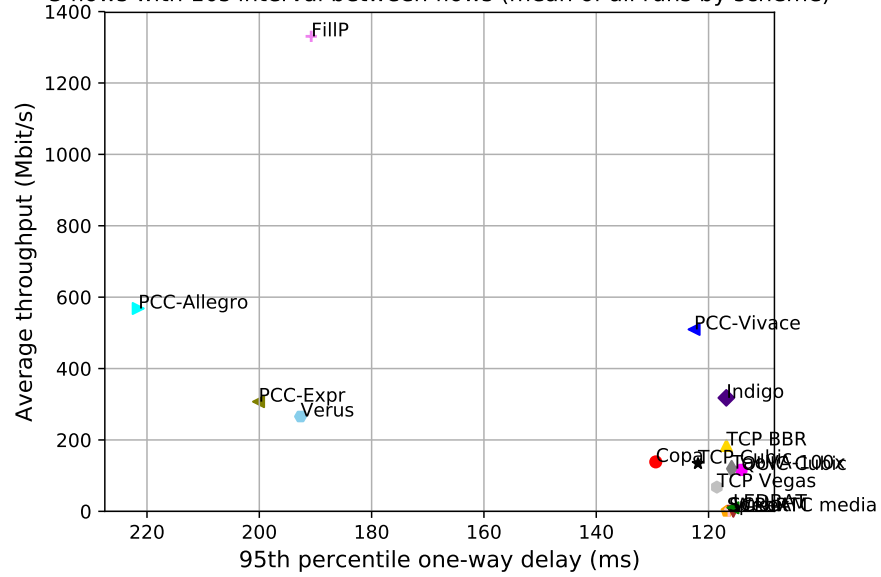
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

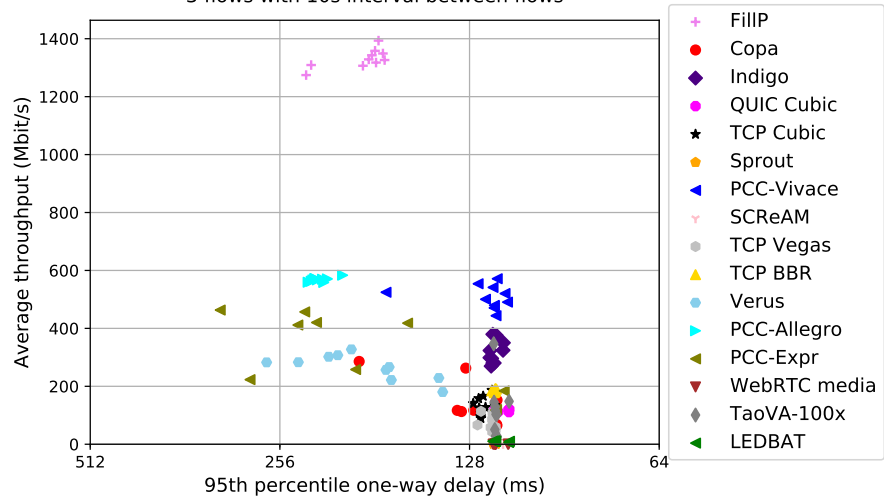
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/llnwd @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE London to GCE Tokyo, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London to GCE Tokyo, 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	94.72	93.14	86.22	116.60	116.89	117.11	0.79	1.24	2.74
Copa	10	74.19	61.48	79.12	125.58	118.11	128.31	1.04	1.40	2.17
TCP Cubic	10	69.19	67.61	60.91	121.64	120.72	121.52	0.93	1.29	3.43
FillP	10	730.52	639.15	541.10	182.53	196.57	189.26	3.03	3.18	3.05
Indigo	10	159.06	171.88	137.31	116.49	117.04	117.26	0.79	1.18	2.77
LEDBAT	10	6.39	4.38	2.18	115.70	114.94	114.31	1.61	2.28	4.59
PCC-Allegro	10	492.34	97.43	35.25	221.40	222.39	221.20	2.48	2.44	4.18
PCC-Expr	10	228.24	89.49	60.80	207.18	130.52	133.99	3.52	1.58	2.89
QUIC Cubic	10	65.24	59.72	34.18	112.21	111.88	113.52	0.95	0.79	3.11
SCReAM	10	0.21	0.22	0.22	114.18	113.86	113.27	0.73	1.25	2.18
Sprout	10	0.19	0.24	0.26	116.59	116.76	116.66	0.53	0.71	1.66
TaoVA-100x	10	58.80	86.04	49.11	115.56	116.29	115.51	0.36	0.54	3.43
TCP Vegas	10	37.11	32.12	29.14	117.82	117.89	117.92	0.71	1.35	3.01
Verus	10	159.78	129.25	64.57	183.45	213.25	179.06	1.32	1.37	6.62
PCC-Vivace	10	320.55	223.69	126.06	122.05	116.07	125.46	0.70	1.41	3.32
WebRTC media	10	0.05	0.05	0.05	115.30	113.95	115.56	0.00	0.00	0.00

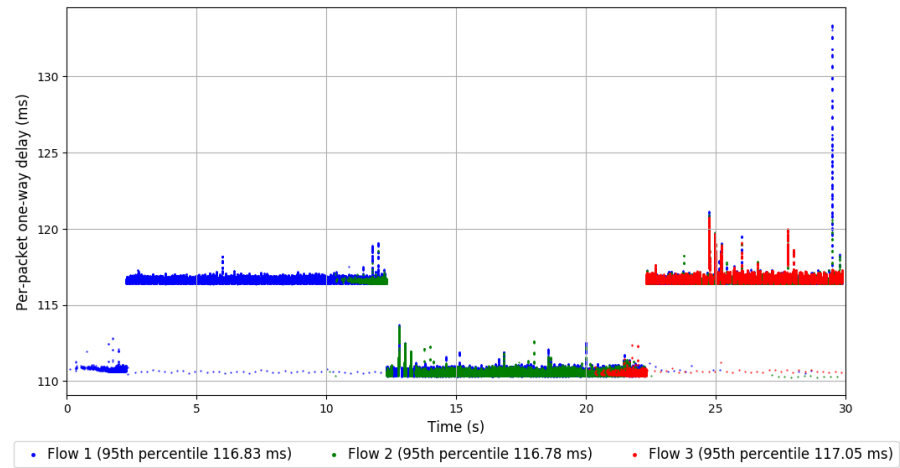
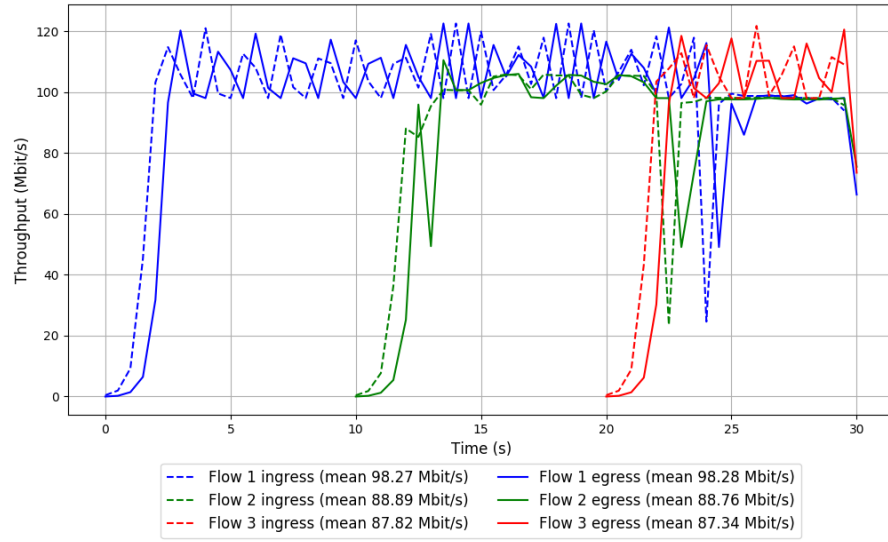
Run 1: Statistics of TCP BBR

Start at: 2018-05-24 16:15:58  
End at: 2018-05-24 16:16:28  
Local clock offset: -0.121 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-05-24 20:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 185.74 Mbit/s  
95th percentile per-packet one-way delay: 116.865 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 98.28 Mbit/s  
95th percentile per-packet one-way delay: 116.835 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 88.76 Mbit/s  
95th percentile per-packet one-way delay: 116.775 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 87.34 Mbit/s  
95th percentile per-packet one-way delay: 117.054 ms  
Loss rate: 2.80%



# Run 1: Report of TCP BBR — Data Link

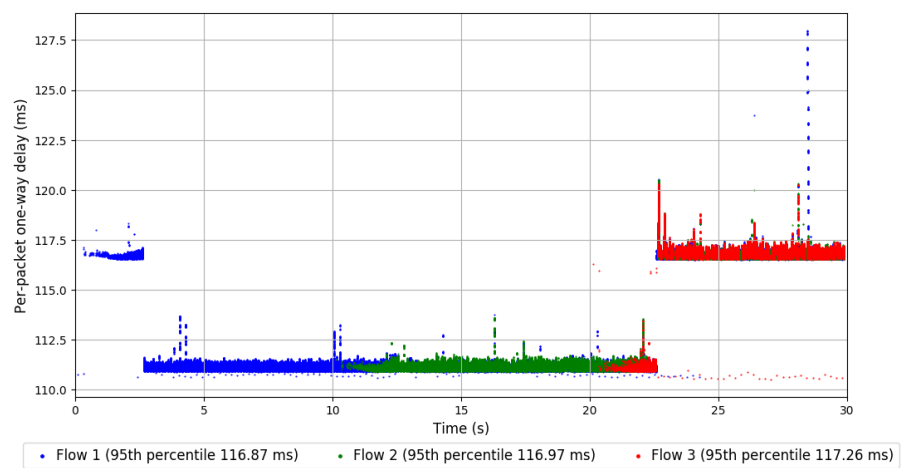
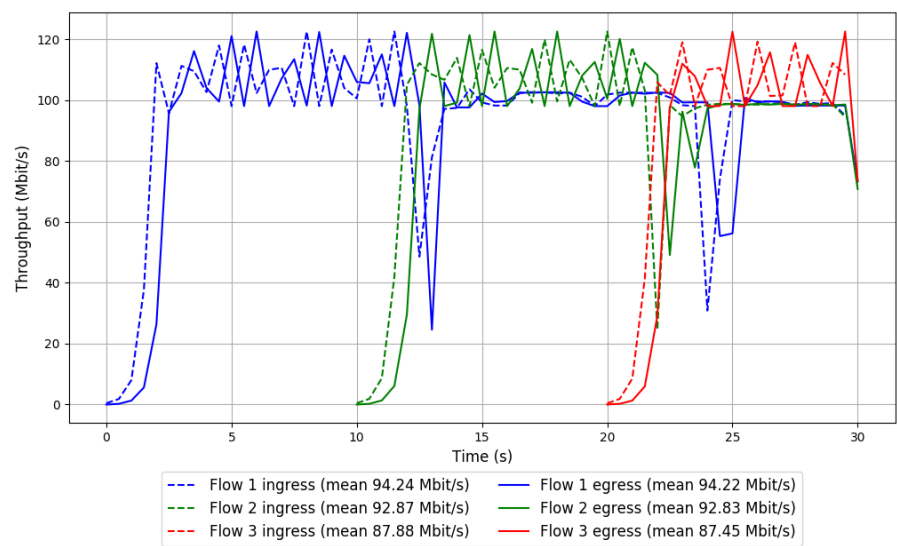


Run 2: Statistics of TCP BBR

Start at: 2018-05-24 16:40:08  
End at: 2018-05-24 16:40:38  
Local clock offset: 0.015 ms  
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2018-05-24 20:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 184.42 Mbit/s  
95th percentile per-packet one-way delay: 117.013 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 94.22 Mbit/s  
95th percentile per-packet one-way delay: 116.868 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 92.83 Mbit/s  
95th percentile per-packet one-way delay: 116.967 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 87.45 Mbit/s  
95th percentile per-packet one-way delay: 117.261 ms  
Loss rate: 2.80%

Run 2: Report of TCP BBR — Data Link

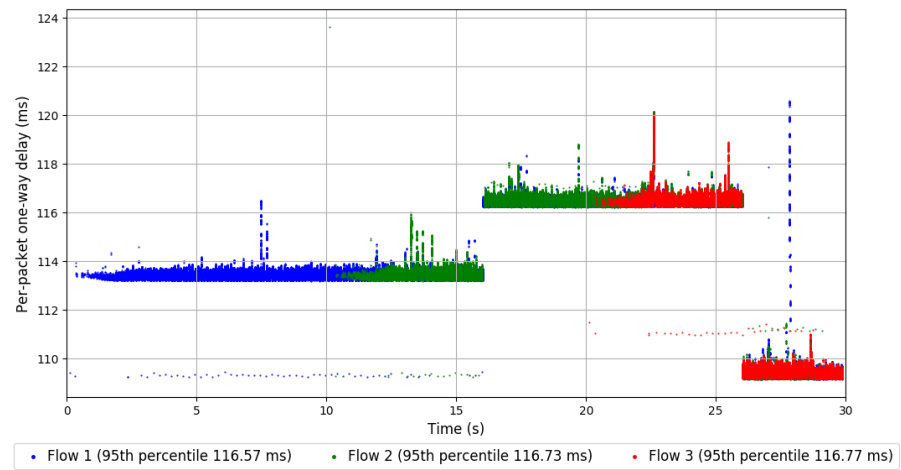
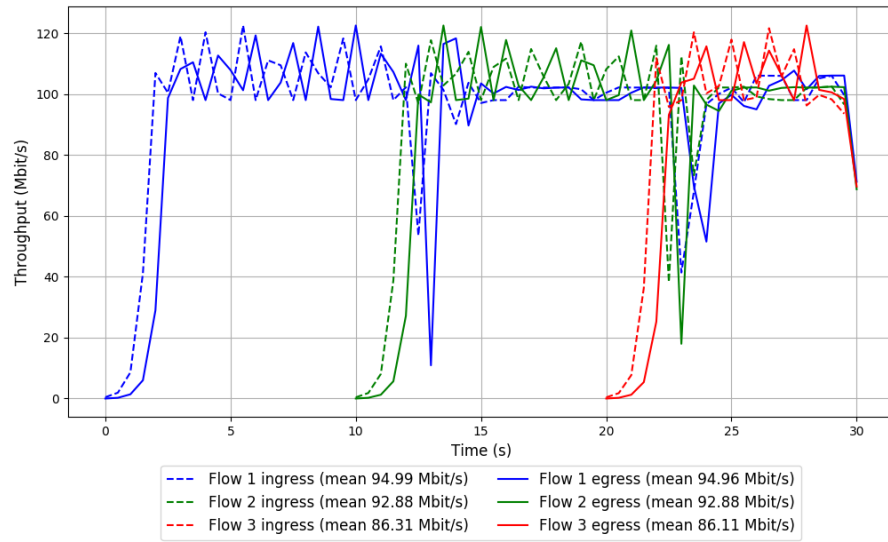


Run 3: Statistics of TCP BBR

Start at: 2018-05-24 17:03:34  
End at: 2018-05-24 17:04:04  
Local clock offset: 0.04 ms  
Remote clock offset: -0.572 ms

# Below is generated by plot.py at 2018-05-24 20:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 184.74 Mbit/s  
95th percentile per-packet one-way delay: 116.676 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 94.96 Mbit/s  
95th percentile per-packet one-way delay: 116.568 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 92.88 Mbit/s  
95th percentile per-packet one-way delay: 116.734 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 86.11 Mbit/s  
95th percentile per-packet one-way delay: 116.766 ms  
Loss rate: 2.47%

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



Run 4: Statistics of TCP BBR

Start at: 2018-05-24 17:26:59

End at: 2018-05-24 17:27:29

Local clock offset: 0.108 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-05-24 20:12:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 182.37 Mbit/s

95th percentile per-packet one-way delay: 117.035 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 90.36 Mbit/s

95th percentile per-packet one-way delay: 117.026 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 117.051 ms

Loss rate: 1.20%

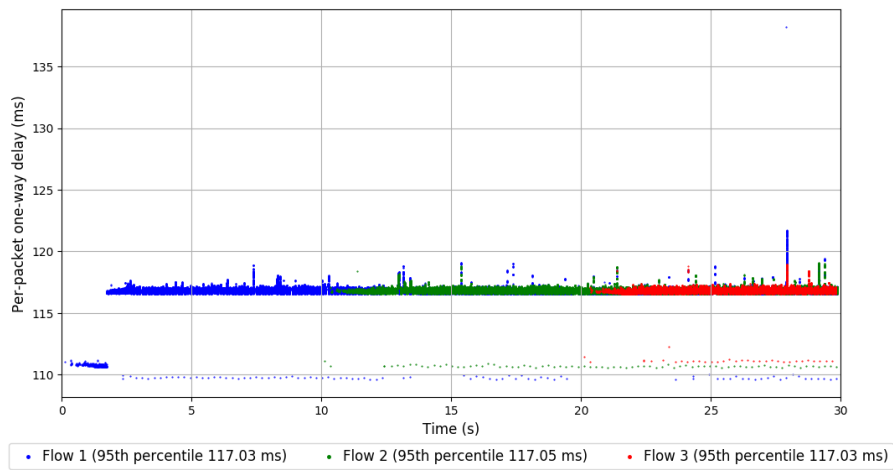
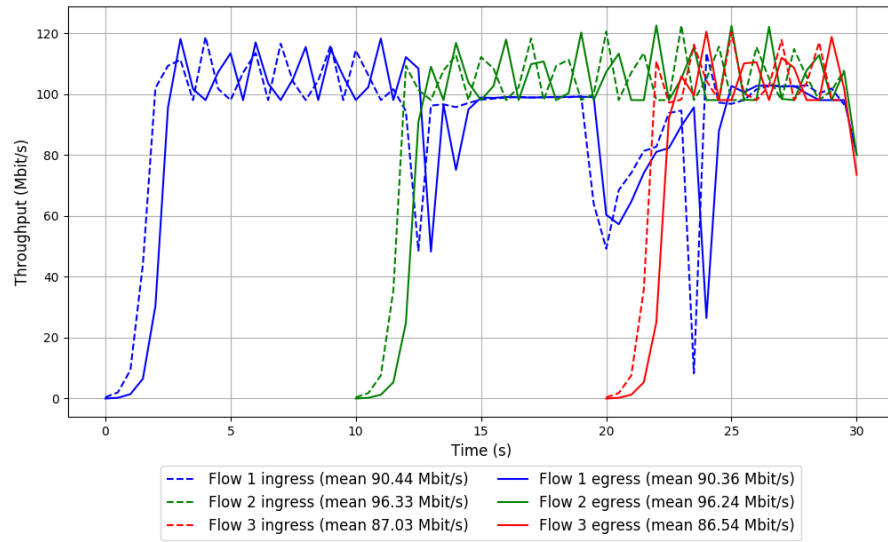
-- Flow 3:

Average throughput: 86.54 Mbit/s

95th percentile per-packet one-way delay: 117.028 ms

Loss rate: 2.84%

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



Run 5: Statistics of TCP BBR

Start at: 2018-05-24 17:50:45

End at: 2018-05-24 17:51:15

Local clock offset: -0.276 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-05-24 20:12:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 182.02 Mbit/s

95th percentile per-packet one-way delay: 116.771 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 95.13 Mbit/s

95th percentile per-packet one-way delay: 116.730 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 116.758 ms

Loss rate: 1.36%

-- Flow 3:

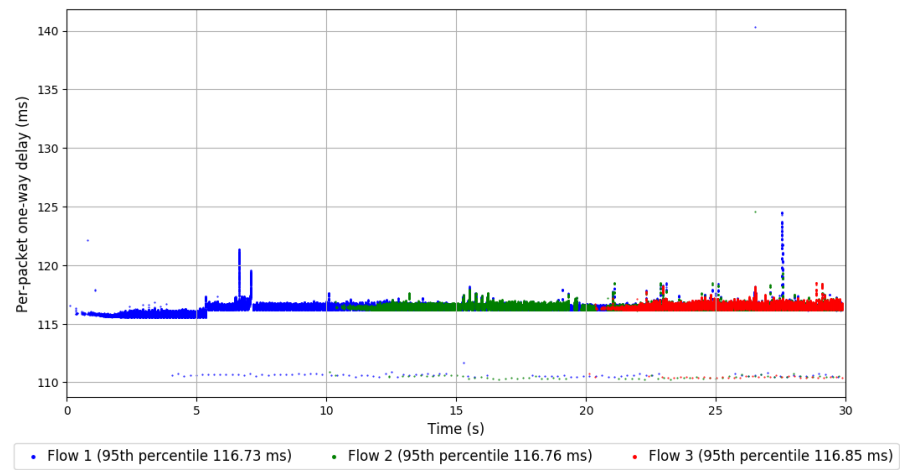
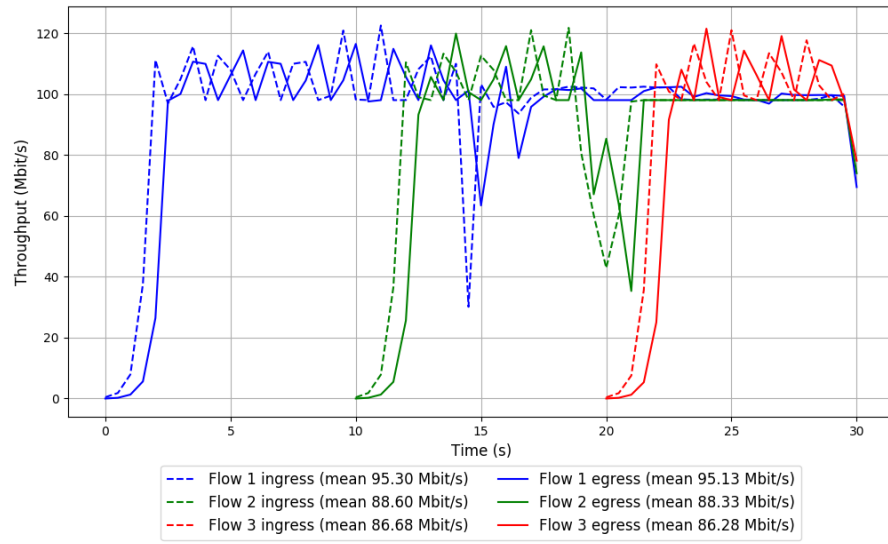
Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 116.853 ms

Loss rate: 2.69%



# Run 5: Report of TCP BBR — Data Link

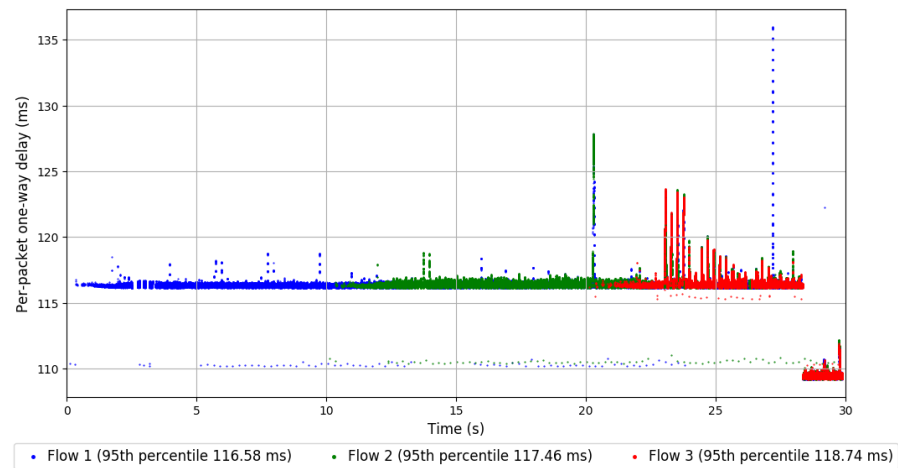
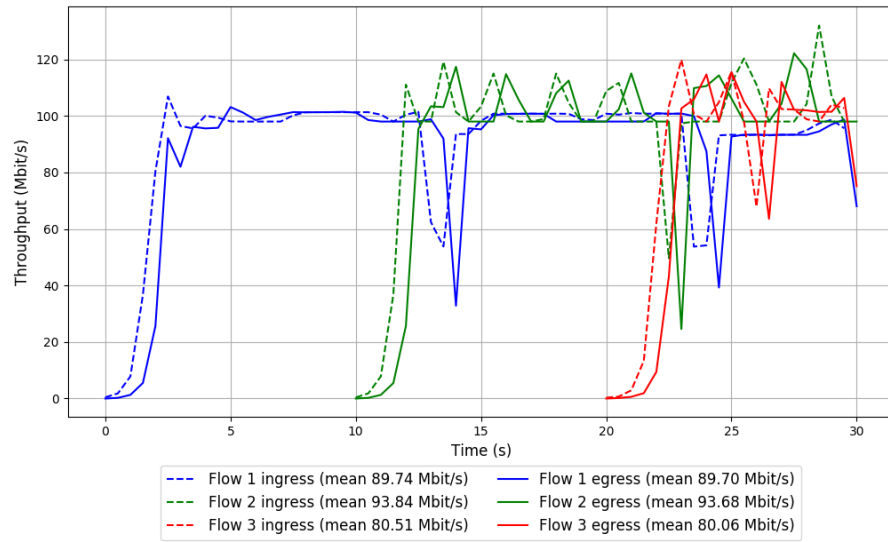


Run 6: Statistics of TCP BBR

Start at: 2018-05-24 18:14:02  
End at: 2018-05-24 18:14:32  
Local clock offset: -0.33 ms  
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2018-05-24 20:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 177.84 Mbit/s  
95th percentile per-packet one-way delay: 116.937 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 89.70 Mbit/s  
95th percentile per-packet one-way delay: 116.583 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 93.68 Mbit/s  
95th percentile per-packet one-way delay: 117.457 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 80.06 Mbit/s  
95th percentile per-packet one-way delay: 118.740 ms  
Loss rate: 2.88%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-24 18:37:50

End at: 2018-05-24 18:38:20

Local clock offset: 0.018 ms

Remote clock offset: 0.212 ms

# Below is generated by plot.py at 2018-05-24 20:12:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 190.29 Mbit/s

95th percentile per-packet one-way delay: 116.030 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 96.81 Mbit/s

95th percentile per-packet one-way delay: 116.015 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 98.30 Mbit/s

95th percentile per-packet one-way delay: 116.085 ms

Loss rate: 1.21%

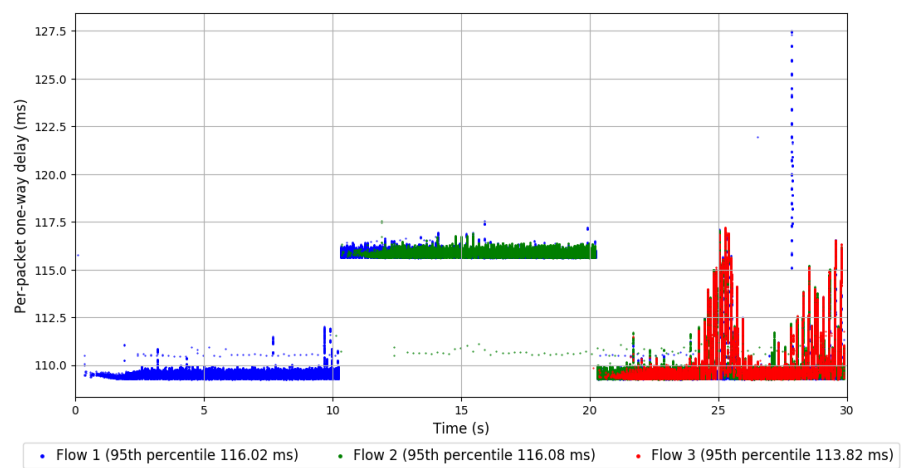
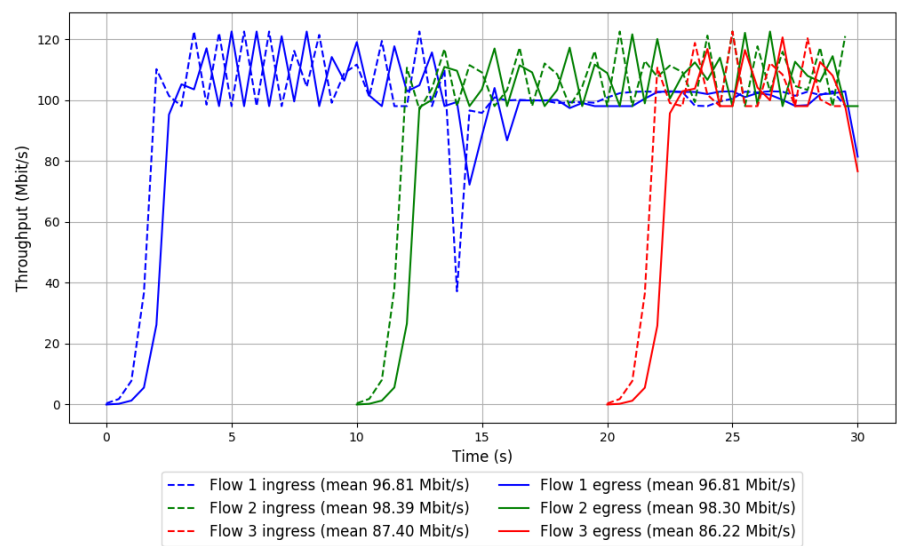
-- Flow 3:

Average throughput: 86.22 Mbit/s

95th percentile per-packet one-way delay: 113.820 ms

Loss rate: 2.66%

Run 7: Report of TCP BBR — Data Link

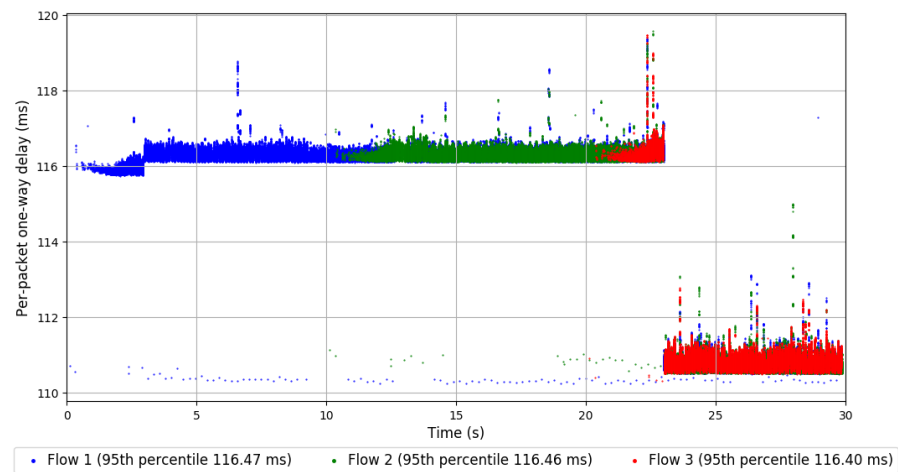
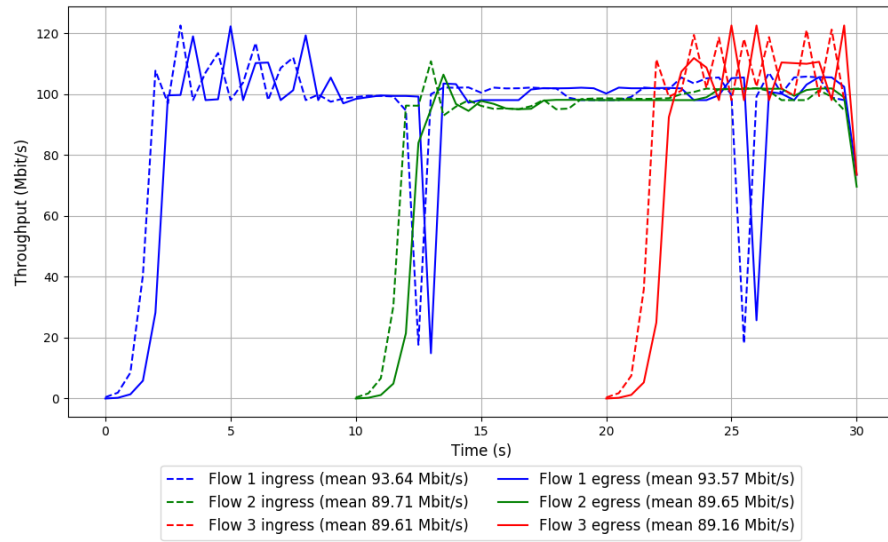


Run 8: Statistics of TCP BBR

Start at: 2018-05-24 19:01:47  
End at: 2018-05-24 19:02:17  
Local clock offset: 0.023 ms  
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2018-05-24 20:12:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 181.91 Mbit/s  
95th percentile per-packet one-way delay: 116.463 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 93.57 Mbit/s  
95th percentile per-packet one-way delay: 116.473 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 89.65 Mbit/s  
95th percentile per-packet one-way delay: 116.458 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 89.16 Mbit/s  
95th percentile per-packet one-way delay: 116.397 ms  
Loss rate: 2.76%

## Run 8: Report of TCP BBR — Data Link



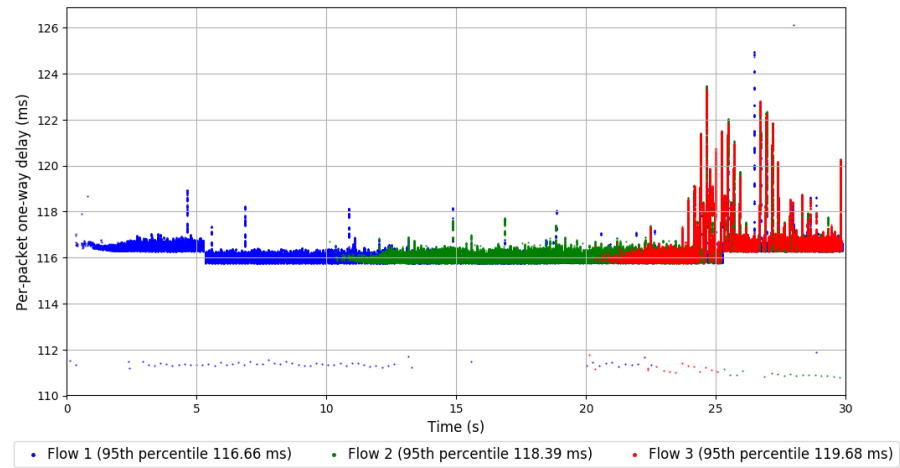
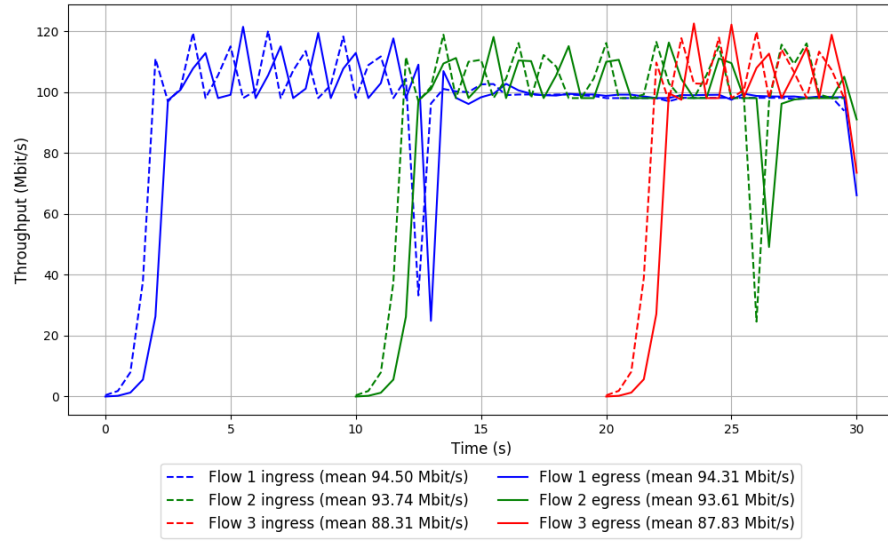
Run 9: Statistics of TCP BBR

Start at: 2018-05-24 19:25:05  
End at: 2018-05-24 19:25:35  
Local clock offset: 0.272 ms  
Remote clock offset: -0.577 ms

# Below is generated by plot.py at 2018-05-24 20:14:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 184.82 Mbit/s  
95th percentile per-packet one-way delay: 117.992 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 94.31 Mbit/s  
95th percentile per-packet one-way delay: 116.661 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 93.61 Mbit/s  
95th percentile per-packet one-way delay: 118.385 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 87.83 Mbit/s  
95th percentile per-packet one-way delay: 119.676 ms  
Loss rate: 2.80%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-24 19:48:55

End at: 2018-05-24 19:49:25

Local clock offset: 0.148 ms

Remote clock offset: 0.182 ms

# Below is generated by plot.py at 2018-05-24 20:14:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 192.12 Mbit/s

95th percentile per-packet one-way delay: 116.462 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 99.83 Mbit/s

95th percentile per-packet one-way delay: 116.244 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 116.247 ms

Loss rate: 1.19%

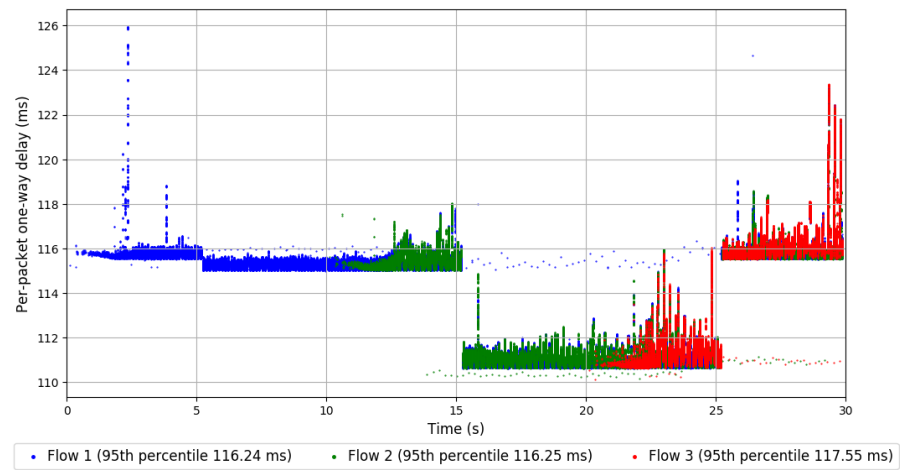
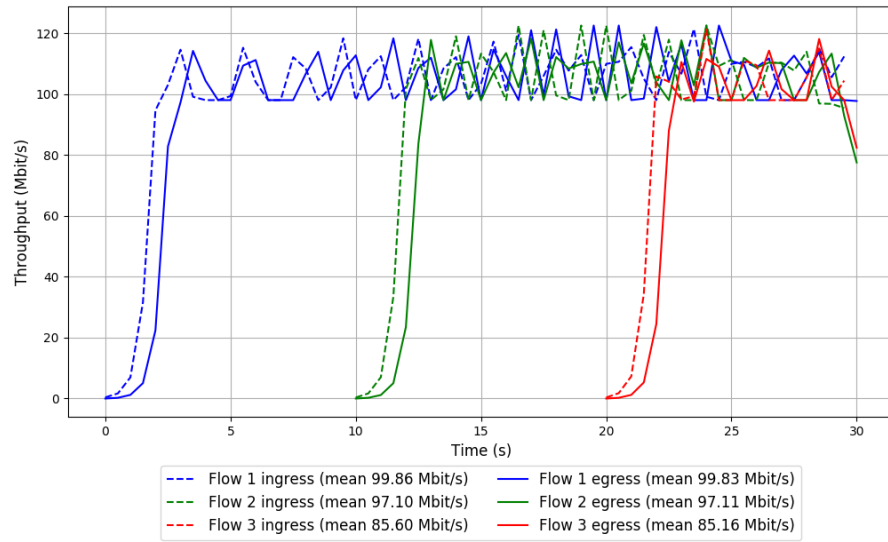
-- Flow 3:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 117.547 ms

Loss rate: 2.73%

# Run 10: Report of TCP BBR — Data Link

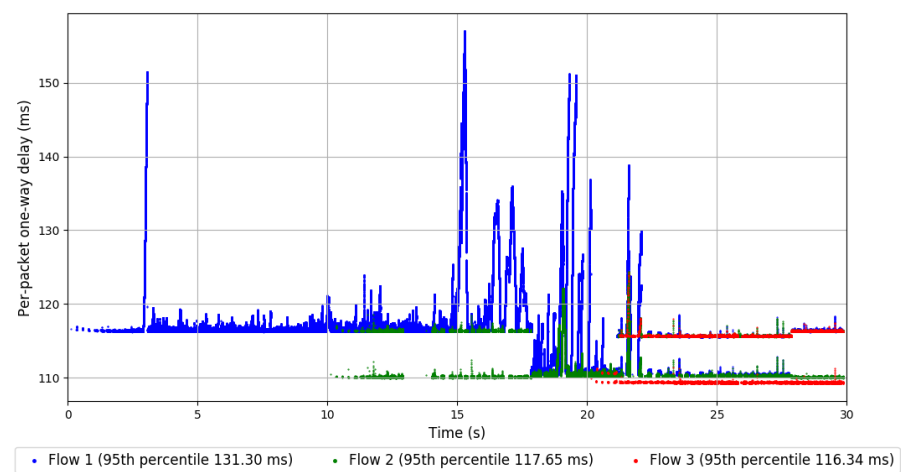
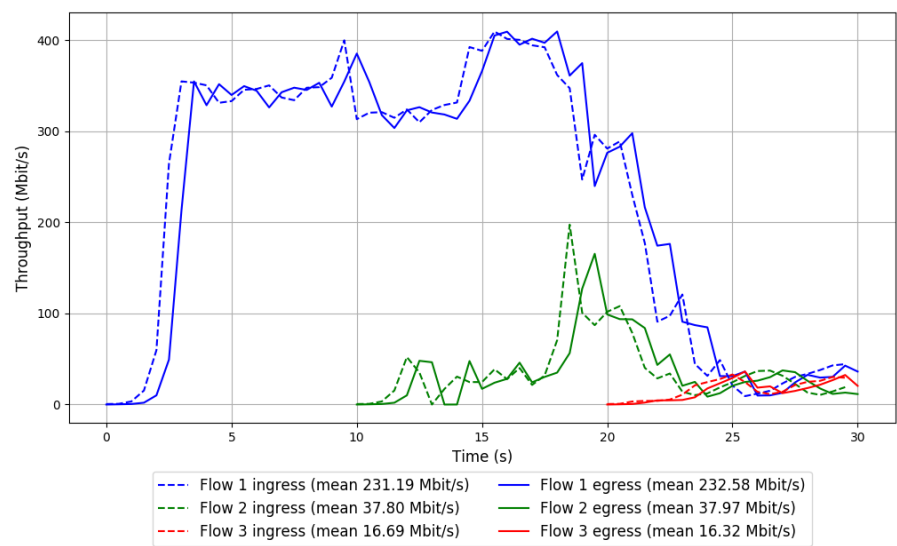


Run 1: Statistics of Copa

Start at: 2018-05-24 16:22:53  
End at: 2018-05-24 16:23:23  
Local clock offset: -0.253 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2018-05-24 20:20:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 262.79 Mbit/s  
95th percentile per-packet one-way delay: 129.785 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 232.58 Mbit/s  
95th percentile per-packet one-way delay: 131.298 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 37.97 Mbit/s  
95th percentile per-packet one-way delay: 117.652 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 16.32 Mbit/s  
95th percentile per-packet one-way delay: 116.341 ms  
Loss rate: 4.38%

Run 1: Report of Copa — Data Link

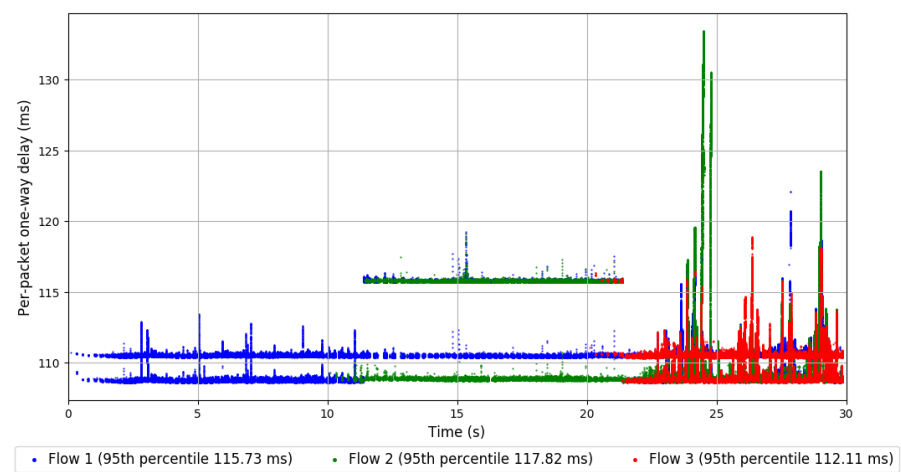
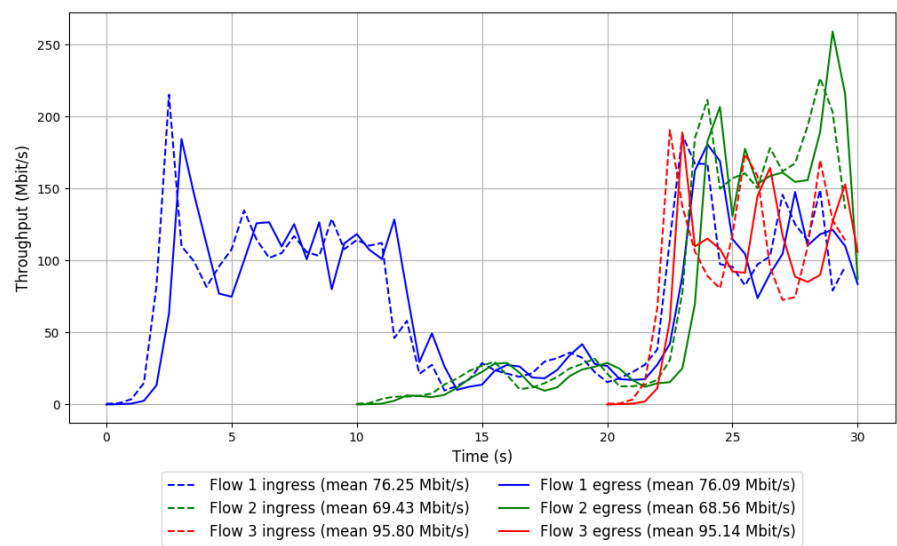


Run 2: Statistics of Copa

Start at: 2018-05-24 16:46:59  
End at: 2018-05-24 16:47:29  
Local clock offset: -0.14 ms  
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-05-24 20:20:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 152.65 Mbit/s  
95th percentile per-packet one-way delay: 115.764 ms  
Loss rate: 1.74%  
-- Flow 1:  
Average throughput: 76.09 Mbit/s  
95th percentile per-packet one-way delay: 115.735 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 68.56 Mbit/s  
95th percentile per-packet one-way delay: 117.817 ms  
Loss rate: 2.41%  
-- Flow 3:  
Average throughput: 95.14 Mbit/s  
95th percentile per-packet one-way delay: 112.112 ms  
Loss rate: 2.67%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-24 17:10:27

End at: 2018-05-24 17:10:57

Local clock offset: 0.044 ms

Remote clock offset: -0.59 ms

# Below is generated by plot.py at 2018-05-24 20:20:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 131.847 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 54.23 Mbit/s

95th percentile per-packet one-way delay: 116.417 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 48.92 Mbit/s

95th percentile per-packet one-way delay: 116.381 ms

Loss rate: 3.10%

-- Flow 3:

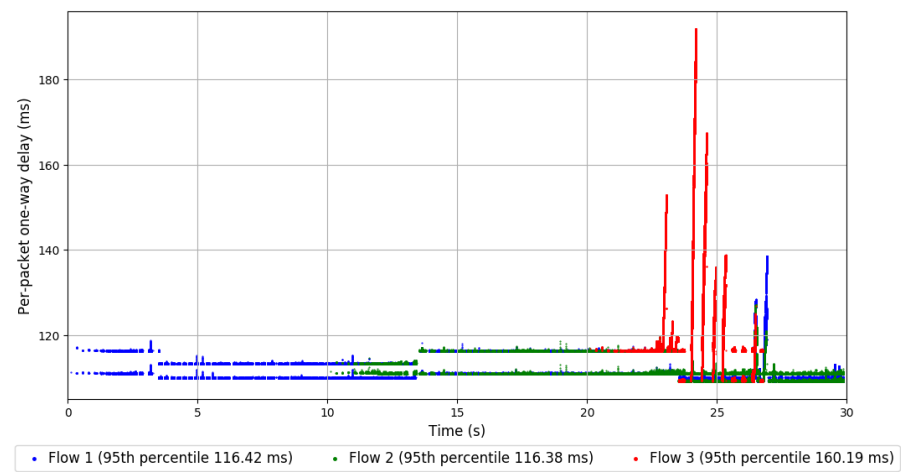
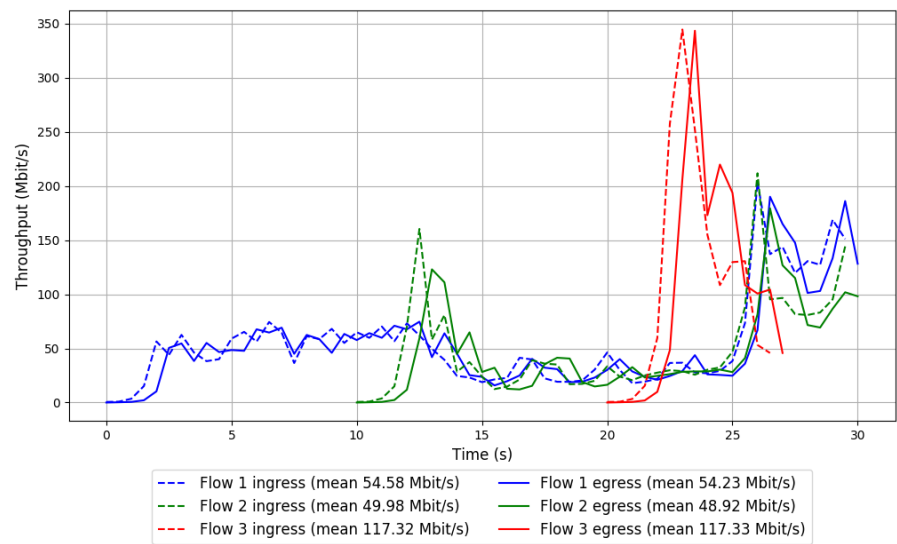
Average throughput: 117.33 Mbit/s

95th percentile per-packet one-way delay: 160.194 ms

Loss rate: 0.00%



Run 3: Report of Copa — Data Link

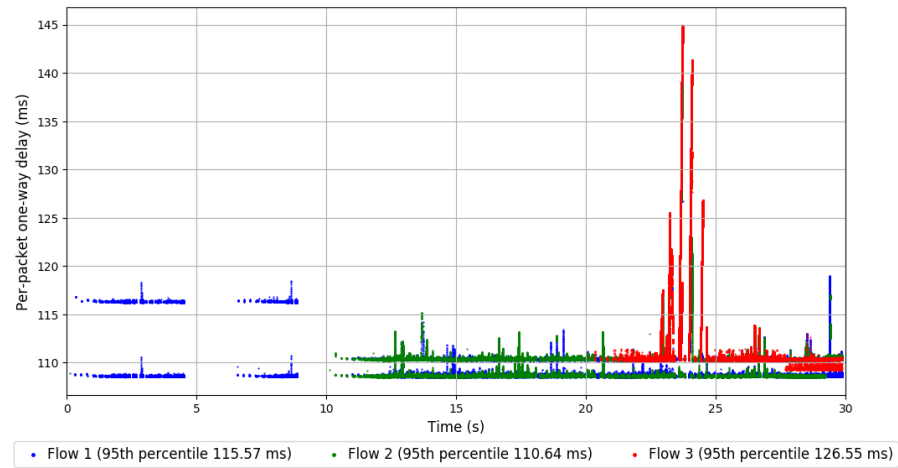
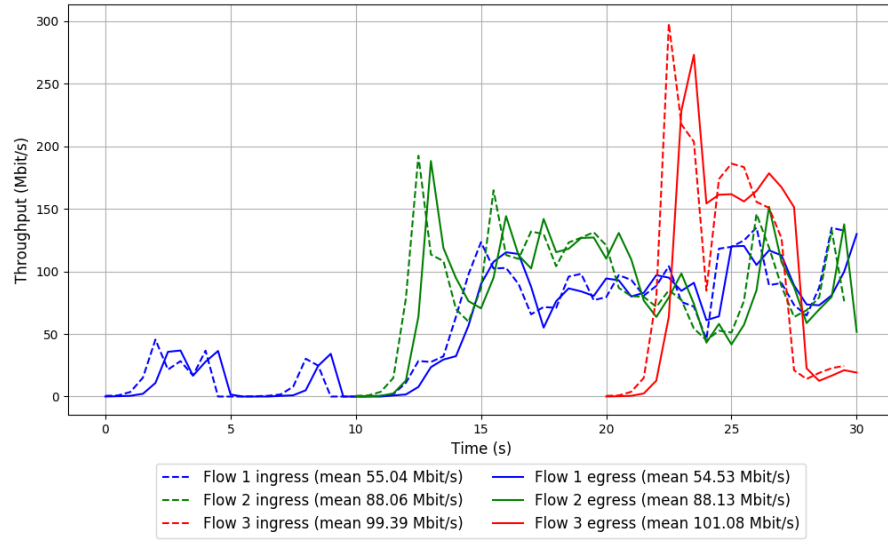


Run 4: Statistics of Copa

Start at: 2018-05-24 17:33:51  
End at: 2018-05-24 17:34:21  
Local clock offset: -0.121 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-05-24 20:20:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 146.08 Mbit/s  
95th percentile per-packet one-way delay: 116.277 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 54.53 Mbit/s  
95th percentile per-packet one-way delay: 115.568 ms  
Loss rate: 1.65%  
-- Flow 2:  
Average throughput: 88.13 Mbit/s  
95th percentile per-packet one-way delay: 110.635 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 101.08 Mbit/s  
95th percentile per-packet one-way delay: 126.550 ms  
Loss rate: 0.63%

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

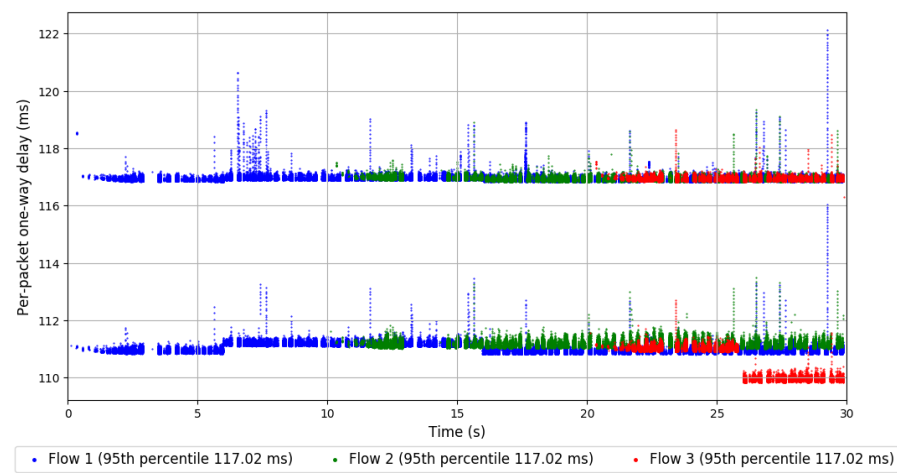
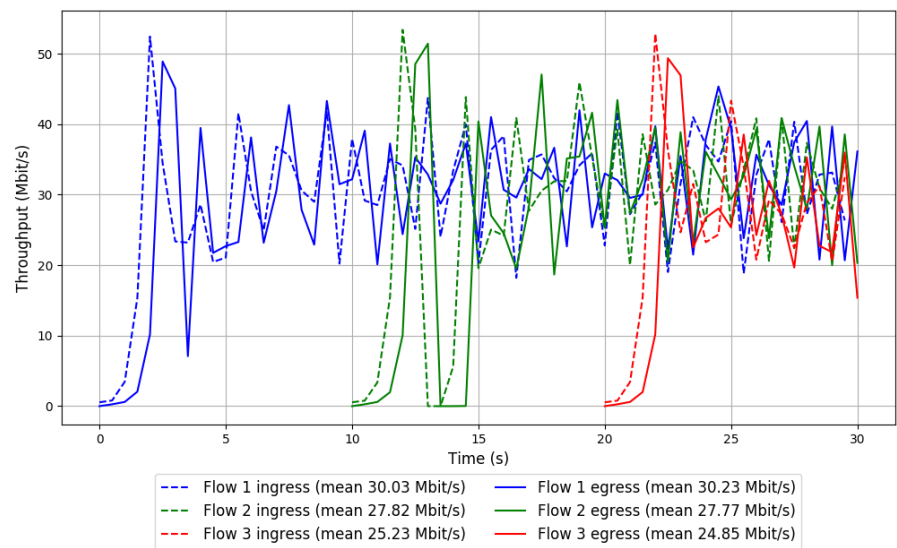


Run 5: Statistics of Copa

Start at: 2018-05-24 17:57:34  
End at: 2018-05-24 17:58:04  
Local clock offset: 0.374 ms  
Remote clock offset: -0.217 ms

```
# Below is generated by plot.py at 2018-05-24 20:20:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 117.023 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 117.024 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 27.77 Mbit/s
95th percentile per-packet one-way delay: 117.023 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 24.85 Mbit/s
95th percentile per-packet one-way delay: 117.016 ms
Loss rate: 3.66%
```

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-24 18:20:50

End at: 2018-05-24 18:21:20

Local clock offset: 0.047 ms

Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2018-05-24 20:20:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 116.89 Mbit/s

95th percentile per-packet one-way delay: 133.864 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 25.25 Mbit/s

95th percentile per-packet one-way delay: 116.922 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 62.25 Mbit/s

95th percentile per-packet one-way delay: 116.770 ms

Loss rate: 0.35%

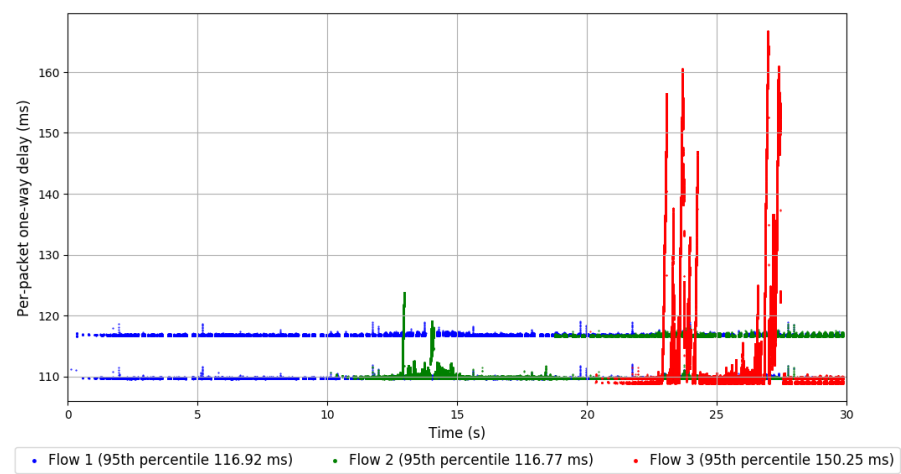
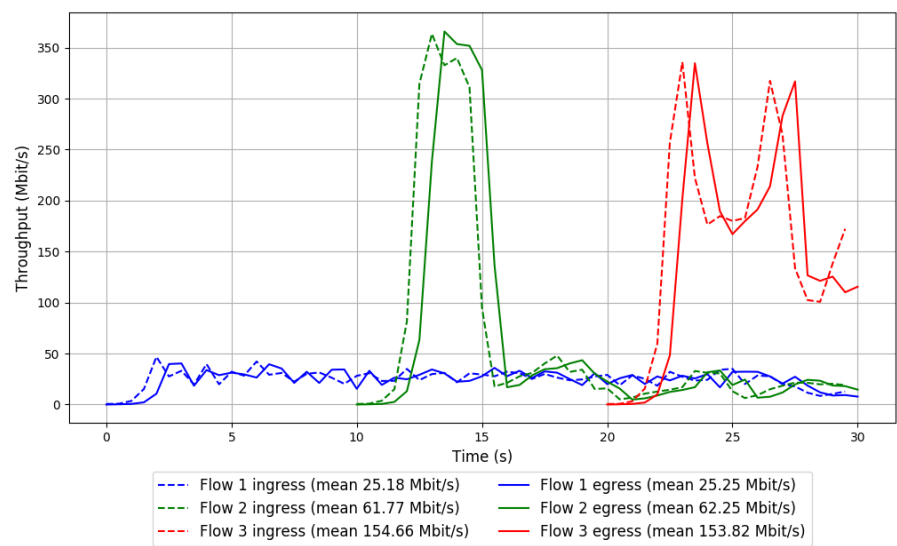
-- Flow 3:

Average throughput: 153.82 Mbit/s

95th percentile per-packet one-way delay: 150.248 ms

Loss rate: 2.82%

Run 6: Report of Copa — Data Link



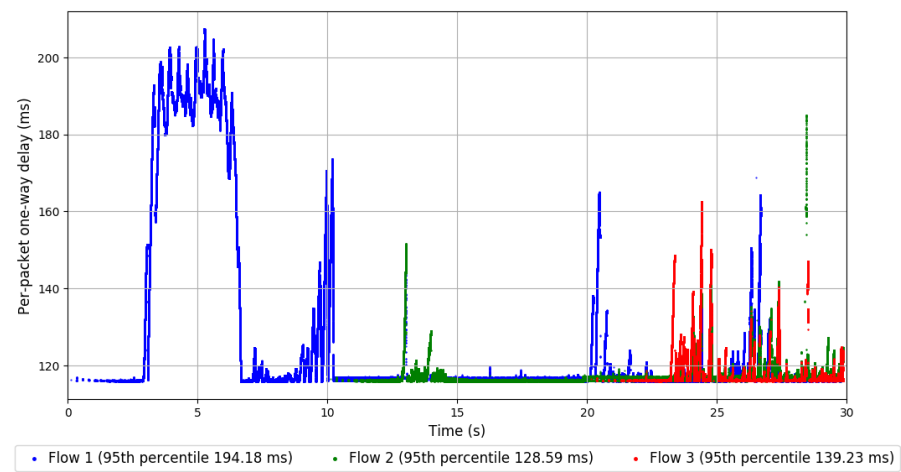
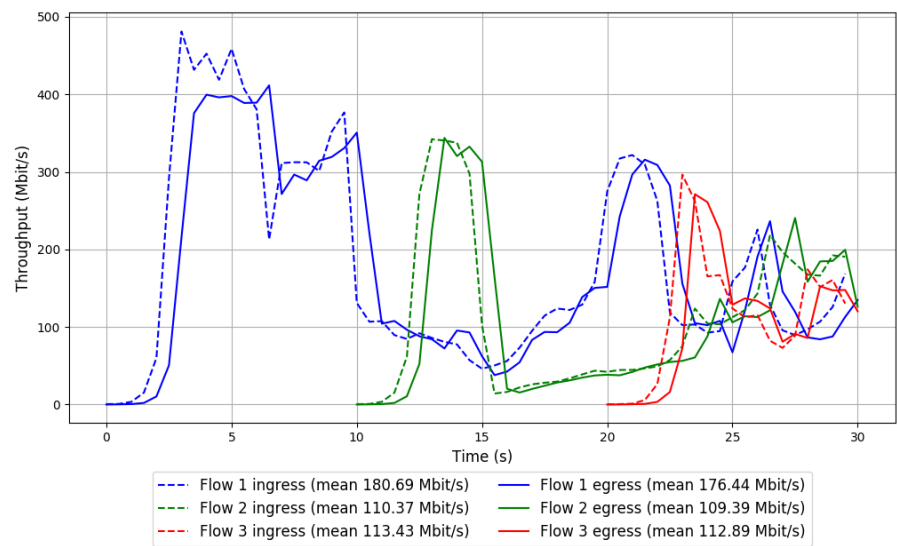
Run 7: Statistics of Copa

Start at: 2018-05-24 18:44:41  
End at: 2018-05-24 18:45:11  
Local clock offset: -0.108 ms  
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 285.84 Mbit/s  
95th percentile per-packet one-way delay: 191.603 ms  
Loss rate: 2.76%  
-- Flow 1:  
Average throughput: 176.44 Mbit/s  
95th percentile per-packet one-way delay: 194.183 ms  
Loss rate: 3.15%  
-- Flow 2:  
Average throughput: 109.39 Mbit/s  
95th percentile per-packet one-way delay: 128.592 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 112.89 Mbit/s  
95th percentile per-packet one-way delay: 139.226 ms  
Loss rate: 2.32%



Run 7: Report of Copa — Data Link

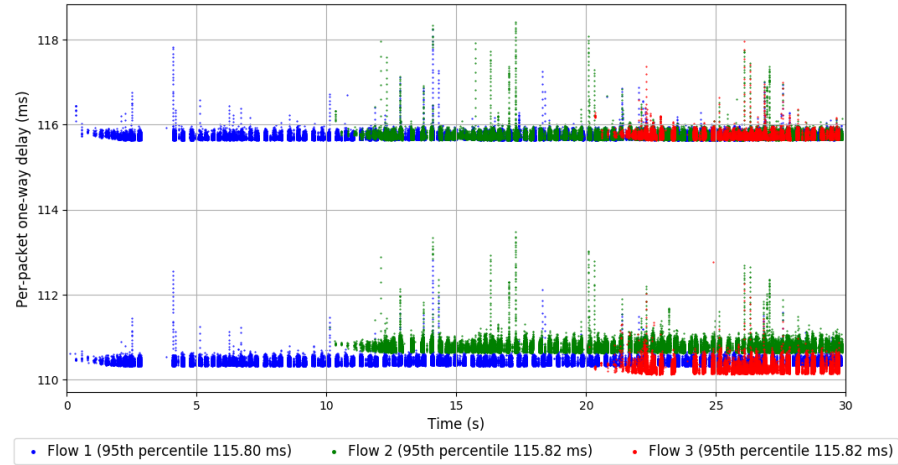
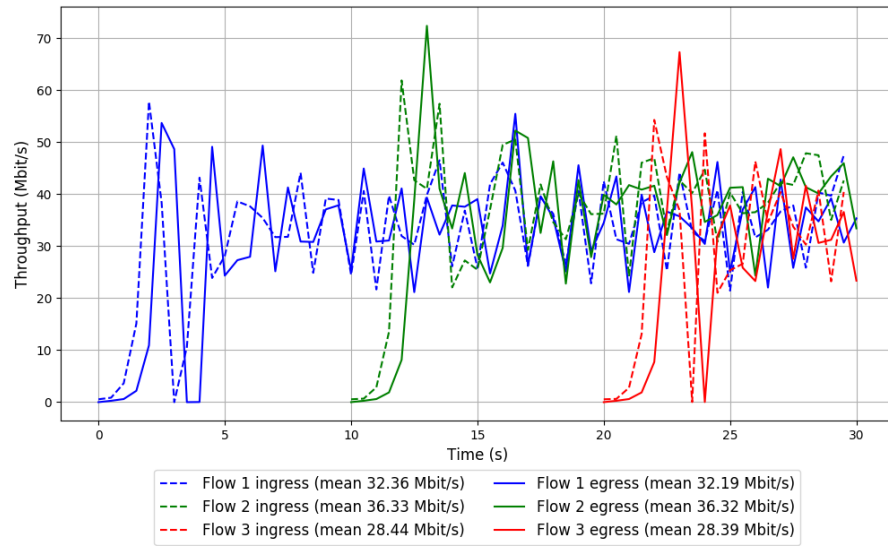


Run 8: Statistics of Copa

Start at: 2018-05-24 19:08:42  
End at: 2018-05-24 19:09:12  
Local clock offset: -0.06 ms  
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.46 Mbit/s  
95th percentile per-packet one-way delay: 115.813 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 32.19 Mbit/s  
95th percentile per-packet one-way delay: 115.802 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 36.32 Mbit/s  
95th percentile per-packet one-way delay: 115.822 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 28.39 Mbit/s  
95th percentile per-packet one-way delay: 115.822 ms  
Loss rate: 3.37%

# Run 8: Report of Copa — Data Link

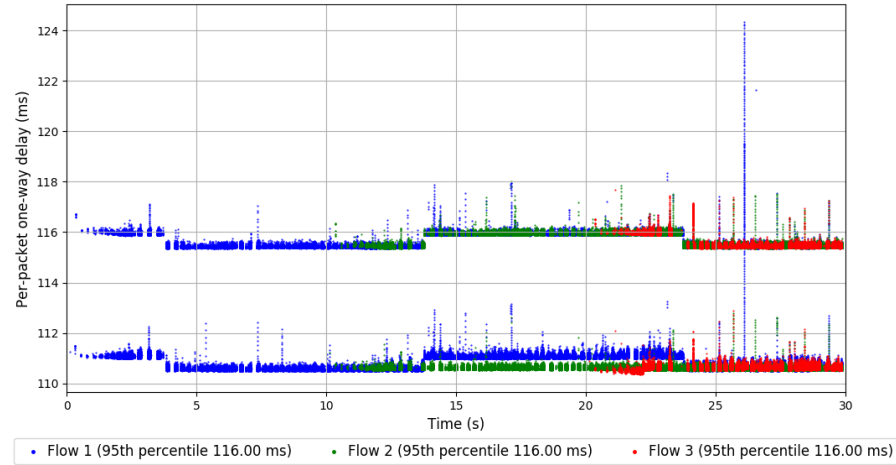
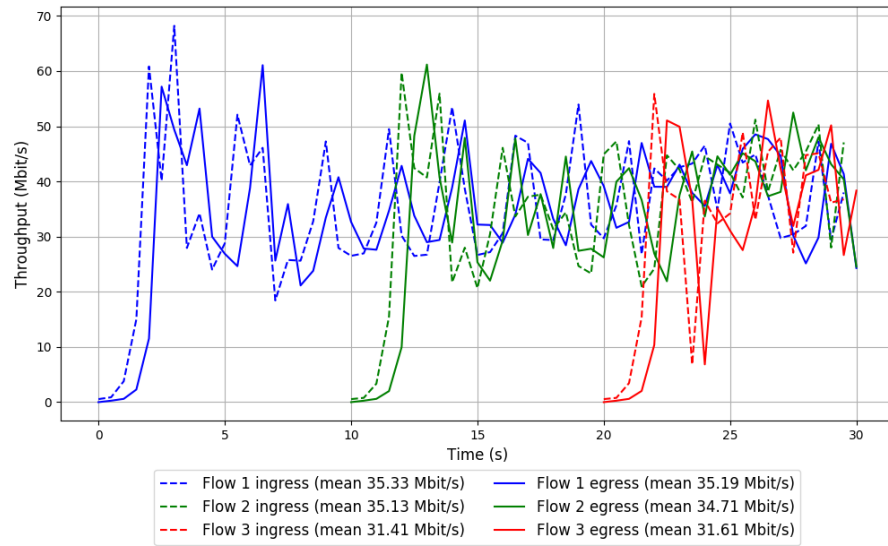


Run 9: Statistics of Copa

Start at: 2018-05-24 19:31:57  
End at: 2018-05-24 19:32:27  
Local clock offset: 0.222 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.55 Mbit/s  
95th percentile per-packet one-way delay: 115.999 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 35.19 Mbit/s  
95th percentile per-packet one-way delay: 115.996 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 34.71 Mbit/s  
95th percentile per-packet one-way delay: 116.002 ms  
Loss rate: 1.71%  
-- Flow 3:  
Average throughput: 31.61 Mbit/s  
95th percentile per-packet one-way delay: 116.001 ms  
Loss rate: 1.81%

## Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-24 19:55:45

End at: 2018-05-24 19:56:15

Local clock offset: 0.33 ms

Remote clock offset: 0.232 ms

# Below is generated by plot.py at 2018-05-24 20:22:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 117.21 Mbit/s

95th percentile per-packet one-way delay: 126.051 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 25.17 Mbit/s

95th percentile per-packet one-way delay: 116.892 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 100.76 Mbit/s

95th percentile per-packet one-way delay: 124.392 ms

Loss rate: 0.38%

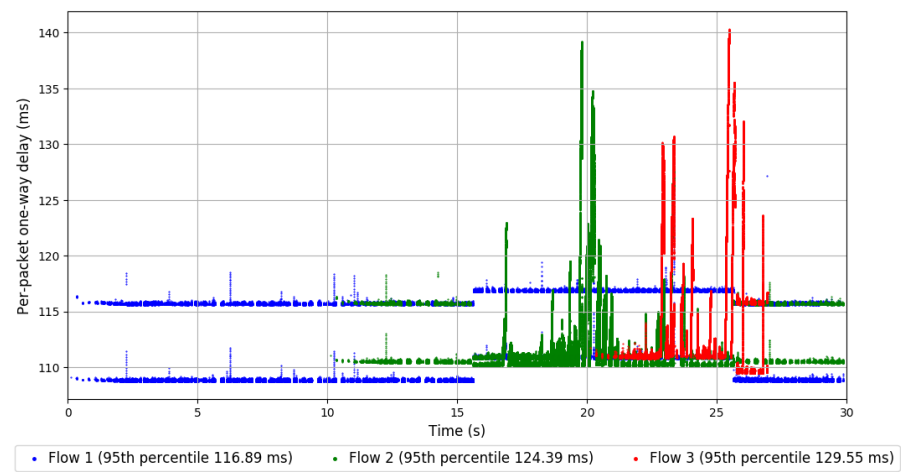
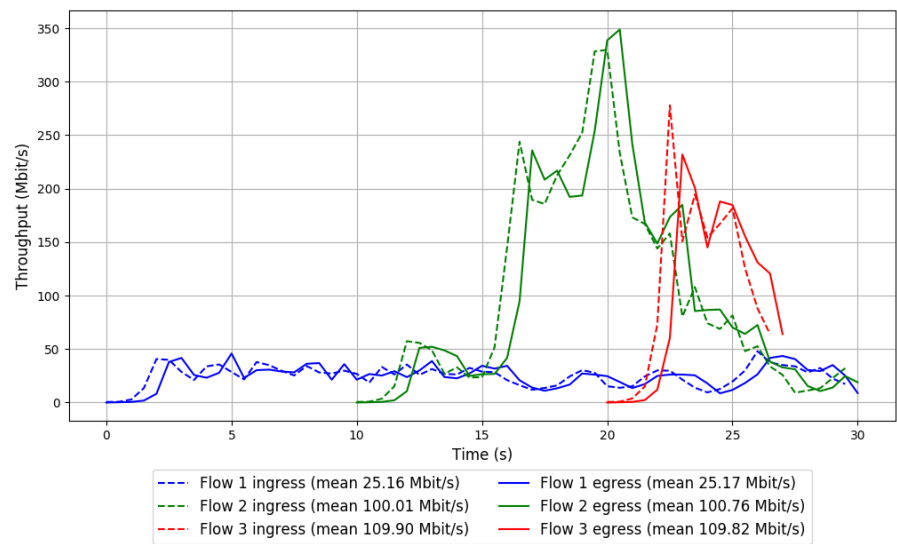
-- Flow 3:

Average throughput: 109.82 Mbit/s

95th percentile per-packet one-way delay: 129.554 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



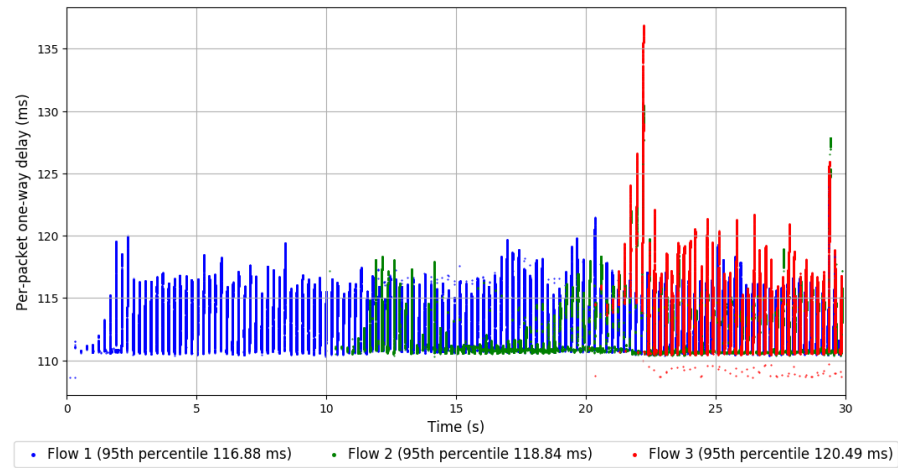
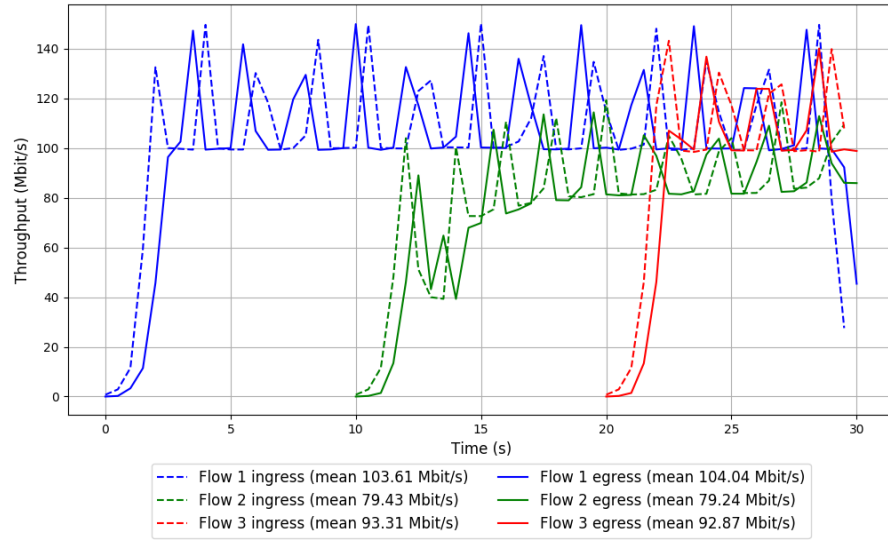
Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 16:21:29  
End at: 2018-05-24 16:21:59  
Local clock offset: -0.364 ms  
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 186.75 Mbit/s  
95th percentile per-packet one-way delay: 117.949 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 104.04 Mbit/s  
95th percentile per-packet one-way delay: 116.882 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 79.24 Mbit/s  
95th percentile per-packet one-way delay: 118.838 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 92.87 Mbit/s  
95th percentile per-packet one-way delay: 120.491 ms  
Loss rate: 2.67%



# Run 1: Report of TCP Cubic — Data Link

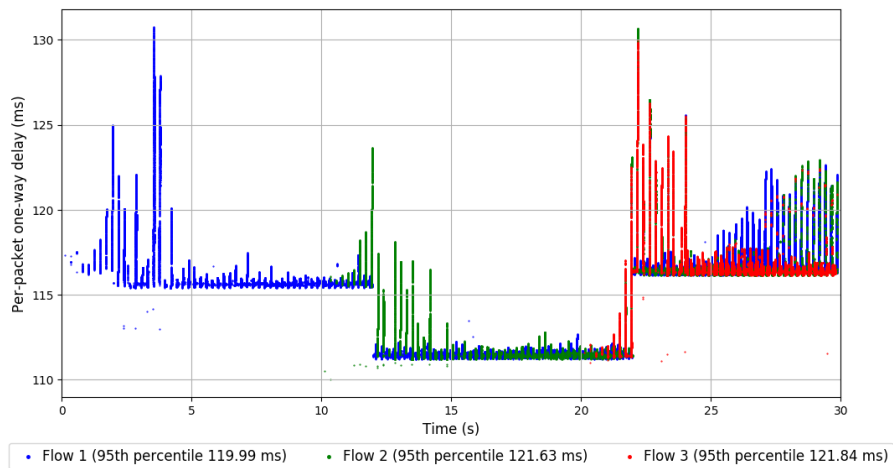
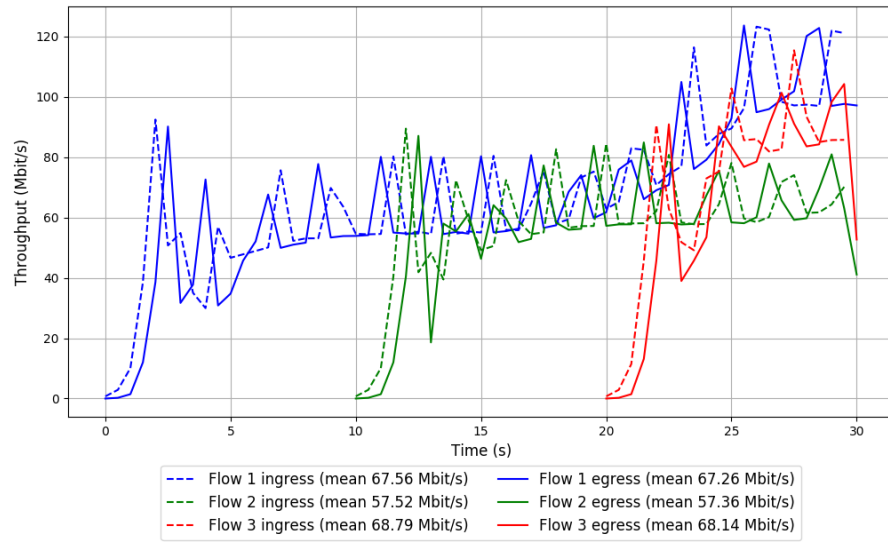


Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 16:45:38  
End at: 2018-05-24 16:46:08  
Local clock offset: -0.069 ms  
Remote clock offset: -0.609 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 127.58 Mbit/s  
95th percentile per-packet one-way delay: 120.748 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 67.26 Mbit/s  
95th percentile per-packet one-way delay: 119.988 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 57.36 Mbit/s  
95th percentile per-packet one-way delay: 121.634 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 68.14 Mbit/s  
95th percentile per-packet one-way delay: 121.836 ms  
Loss rate: 3.14%

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

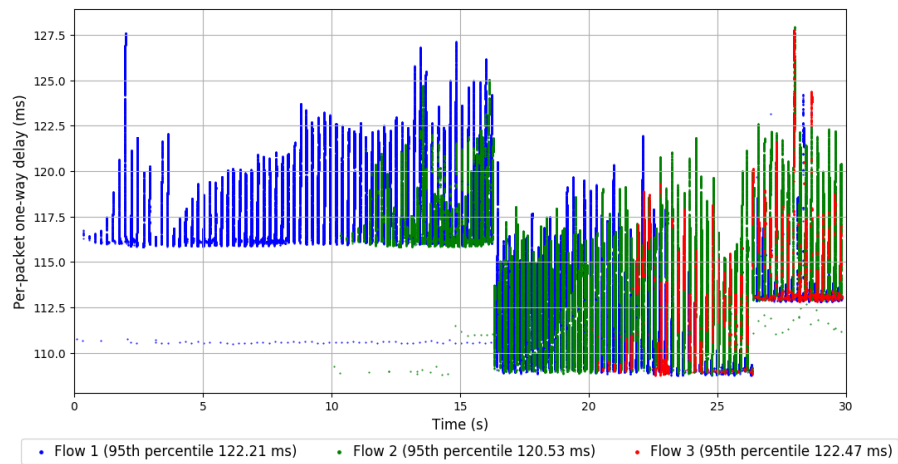
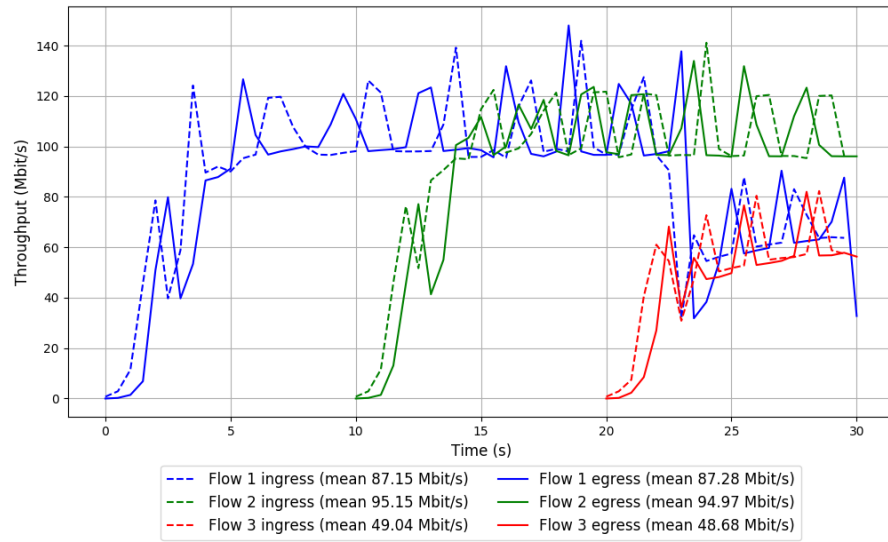


Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 17:09:04  
End at: 2018-05-24 17:09:34  
Local clock offset: -0.006 ms  
Remote clock offset: -0.239 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 166.06 Mbit/s  
95th percentile per-packet one-way delay: 121.765 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 87.28 Mbit/s  
95th percentile per-packet one-way delay: 122.213 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 94.97 Mbit/s  
95th percentile per-packet one-way delay: 120.530 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 48.68 Mbit/s  
95th percentile per-packet one-way delay: 122.472 ms  
Loss rate: 2.94%

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

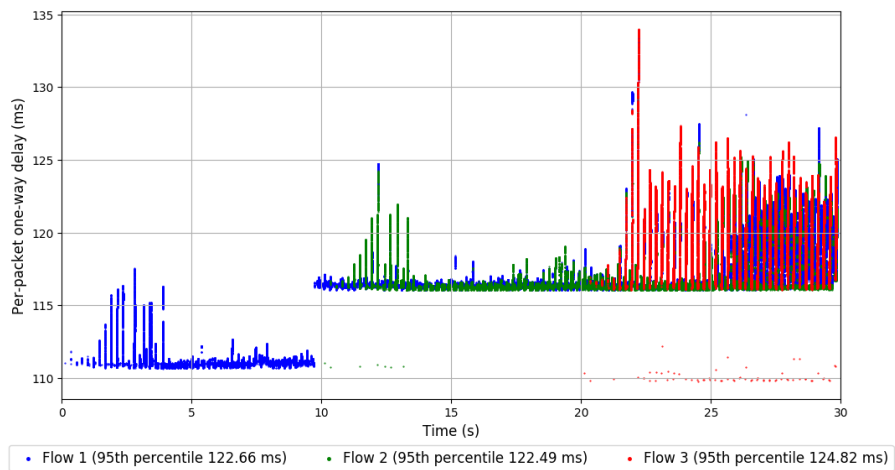
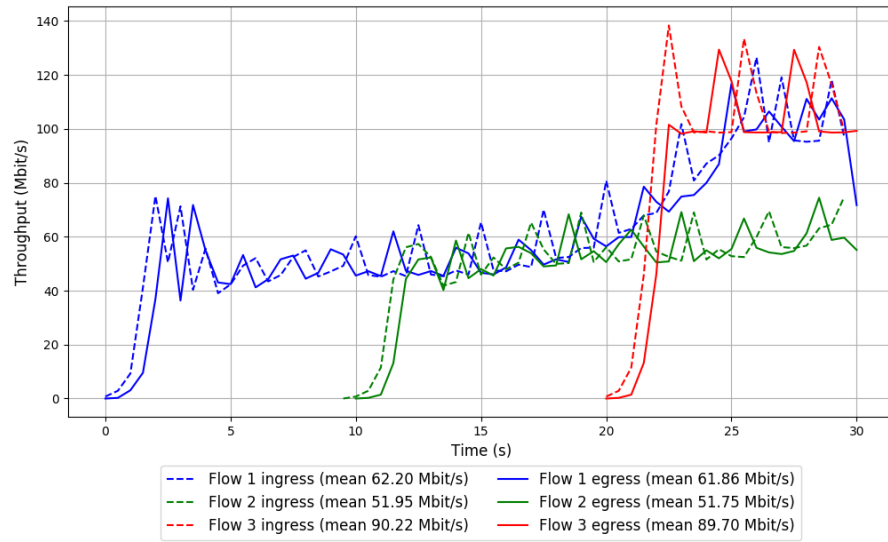


Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 17:32:31  
End at: 2018-05-24 17:33:01  
Local clock offset: 0.235 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 125.49 Mbit/s  
95th percentile per-packet one-way delay: 123.547 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 61.86 Mbit/s  
95th percentile per-packet one-way delay: 122.659 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 51.75 Mbit/s  
95th percentile per-packet one-way delay: 122.494 ms  
Loss rate: 1.49%  
-- Flow 3:  
Average throughput: 89.70 Mbit/s  
95th percentile per-packet one-way delay: 124.822 ms  
Loss rate: 2.77%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 17:56:15

End at: 2018-05-24 17:56:45

Local clock offset: -0.02 ms

Remote clock offset: 0.167 ms

# Below is generated by plot.py at 2018-05-24 20:22:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 113.16 Mbit/s

95th percentile per-packet one-way delay: 122.264 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 122.852 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 117.881 ms

Loss rate: 1.51%

-- Flow 3:

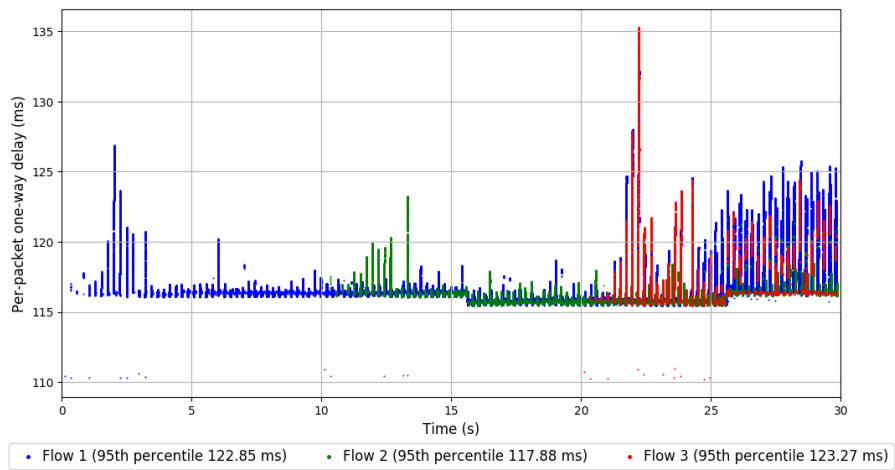
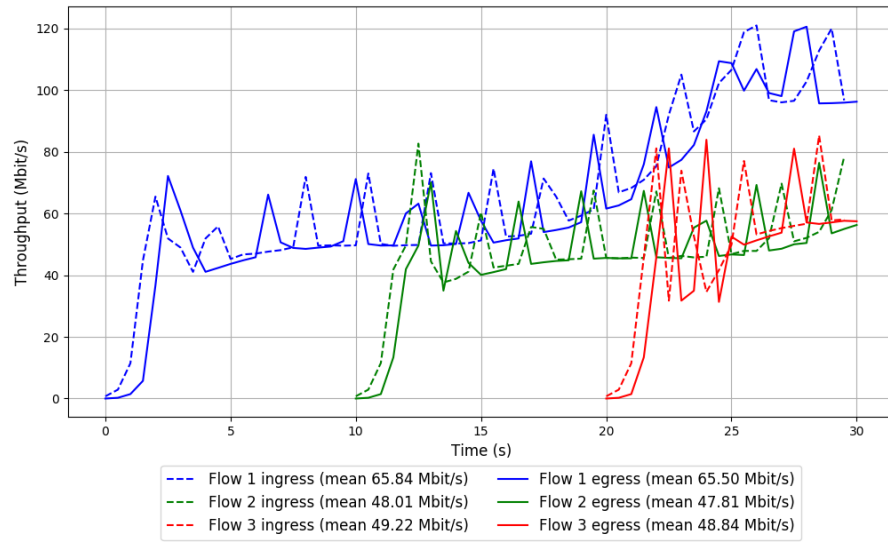
Average throughput: 48.84 Mbit/s

95th percentile per-packet one-way delay: 123.266 ms

Loss rate: 2.97%



# Run 5: Report of TCP Cubic — Data Link

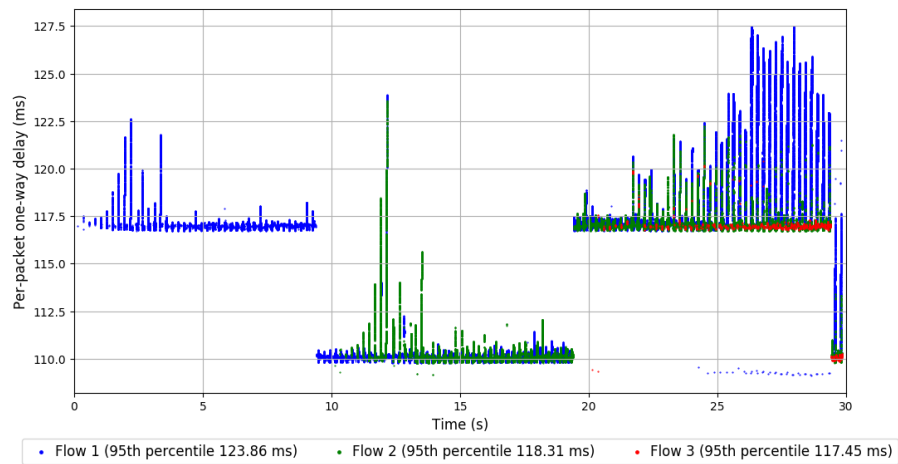
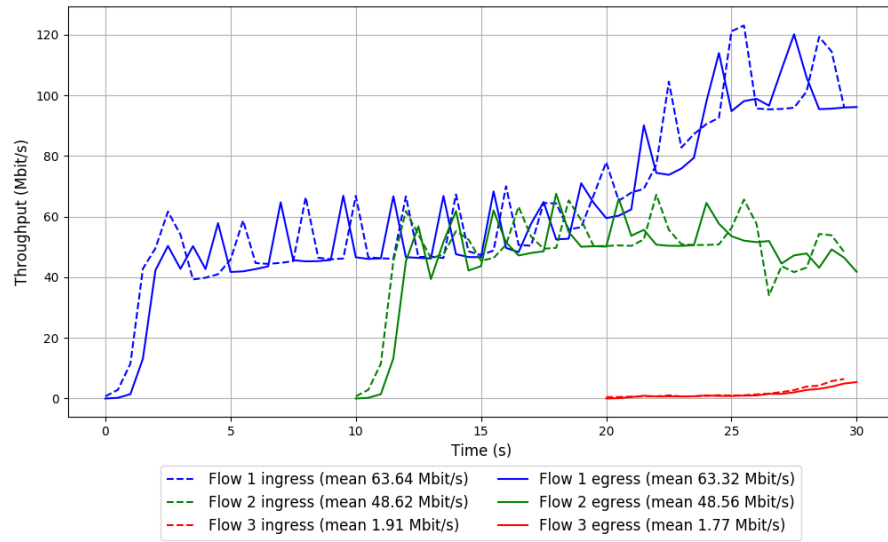


Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 18:19:31  
End at: 2018-05-24 18:20:01  
Local clock offset: 0.215 ms  
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.06 Mbit/s  
95th percentile per-packet one-way delay: 122.983 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 63.32 Mbit/s  
95th percentile per-packet one-way delay: 123.858 ms  
Loss rate: 1.26%  
-- Flow 2:  
Average throughput: 48.56 Mbit/s  
95th percentile per-packet one-way delay: 118.308 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 1.77 Mbit/s  
95th percentile per-packet one-way delay: 117.448 ms  
Loss rate: 9.06%

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

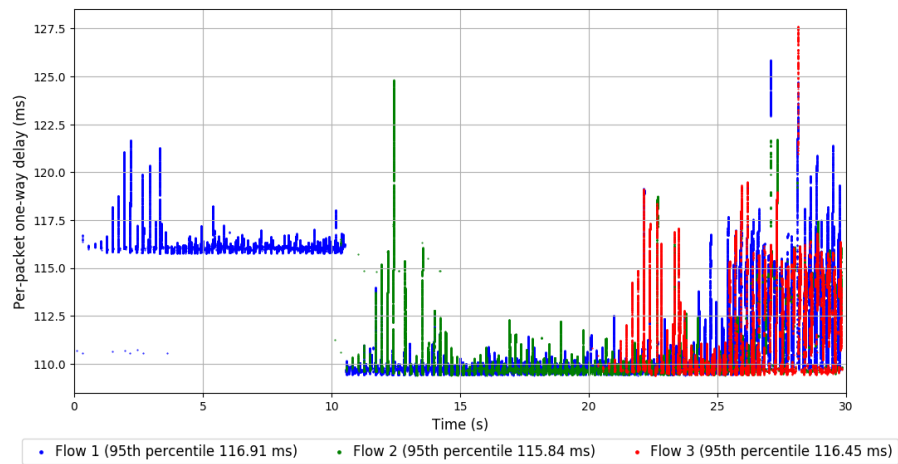
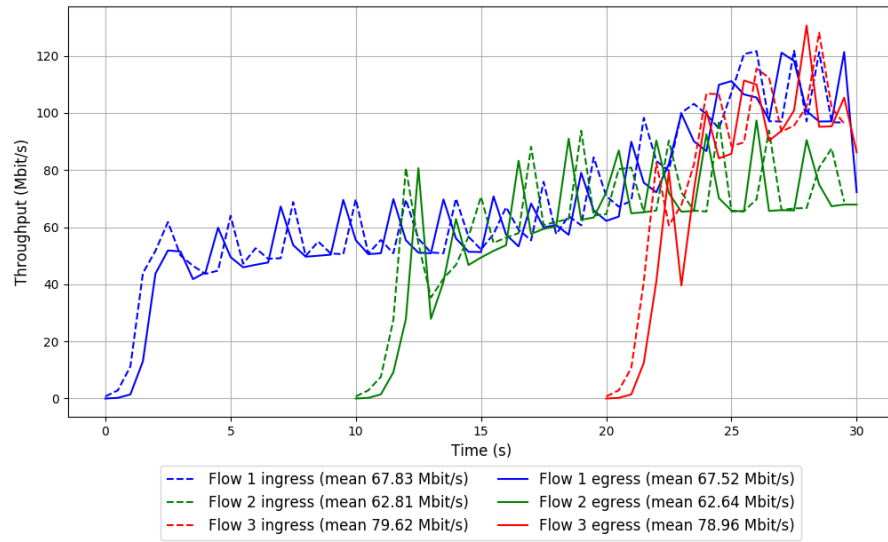


Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 18:43:20  
End at: 2018-05-24 18:43:50  
Local clock offset: -0.273 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 134.65 Mbit/s  
95th percentile per-packet one-way delay: 116.667 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 67.52 Mbit/s  
95th percentile per-packet one-way delay: 116.911 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 62.64 Mbit/s  
95th percentile per-packet one-way delay: 115.845 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 78.96 Mbit/s  
95th percentile per-packet one-way delay: 116.453 ms  
Loss rate: 3.04%

# Run 7: Report of TCP Cubic — Data Link

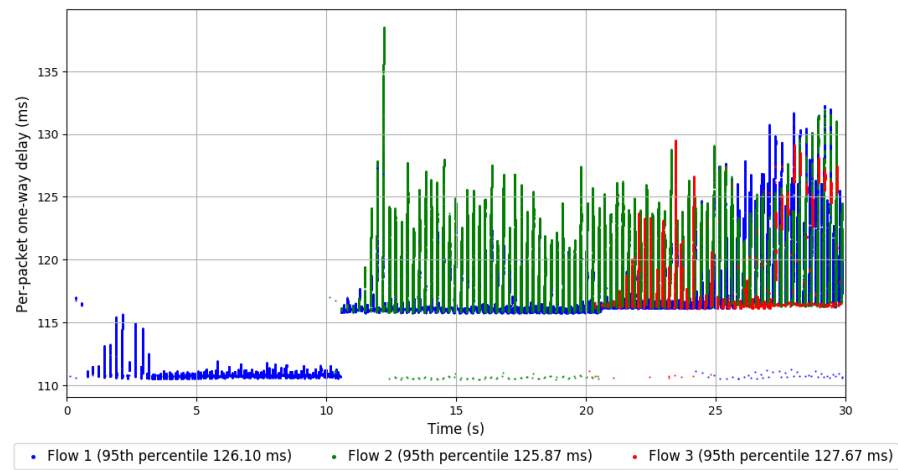
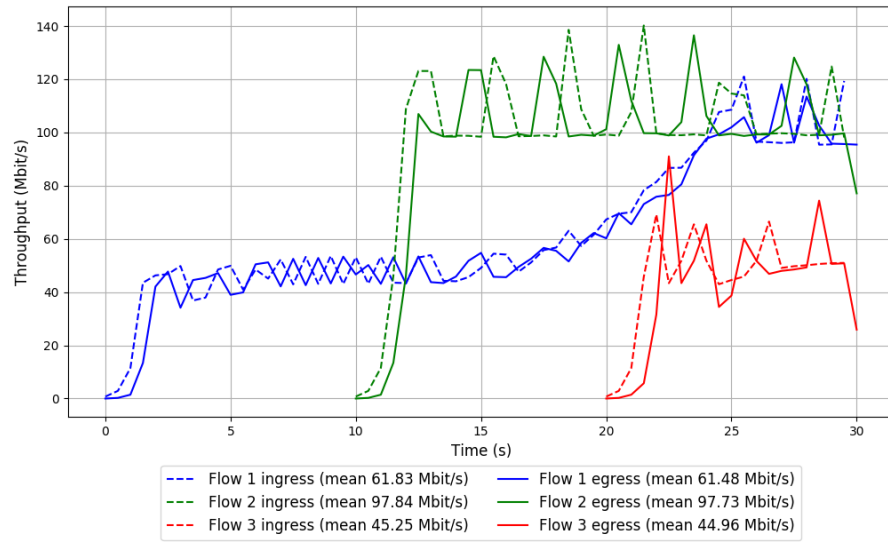


Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 19:07:20  
End at: 2018-05-24 19:07:50  
Local clock offset: 0.067 ms  
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 140.94 Mbit/s  
95th percentile per-packet one-way delay: 126.293 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 61.48 Mbit/s  
95th percentile per-packet one-way delay: 126.100 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 97.73 Mbit/s  
95th percentile per-packet one-way delay: 125.870 ms  
Loss rate: 1.18%  
-- Flow 3:  
Average throughput: 44.96 Mbit/s  
95th percentile per-packet one-way delay: 127.667 ms  
Loss rate: 2.85%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 19:30:34

End at: 2018-05-24 19:31:04

Local clock offset: 0.001 ms

Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2018-05-24 20:22:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 158.06 Mbit/s

95th percentile per-packet one-way delay: 123.838 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 63.61 Mbit/s

95th percentile per-packet one-way delay: 121.604 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 98.76 Mbit/s

95th percentile per-packet one-way delay: 124.717 ms

Loss rate: 1.26%

-- Flow 3:

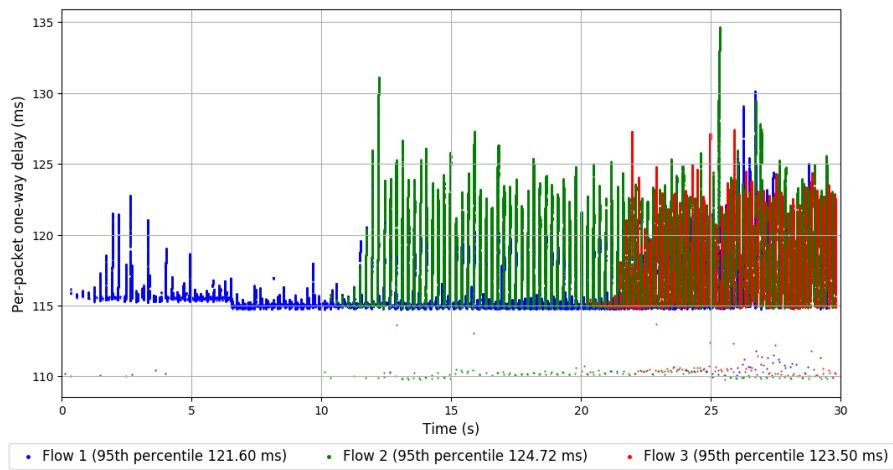
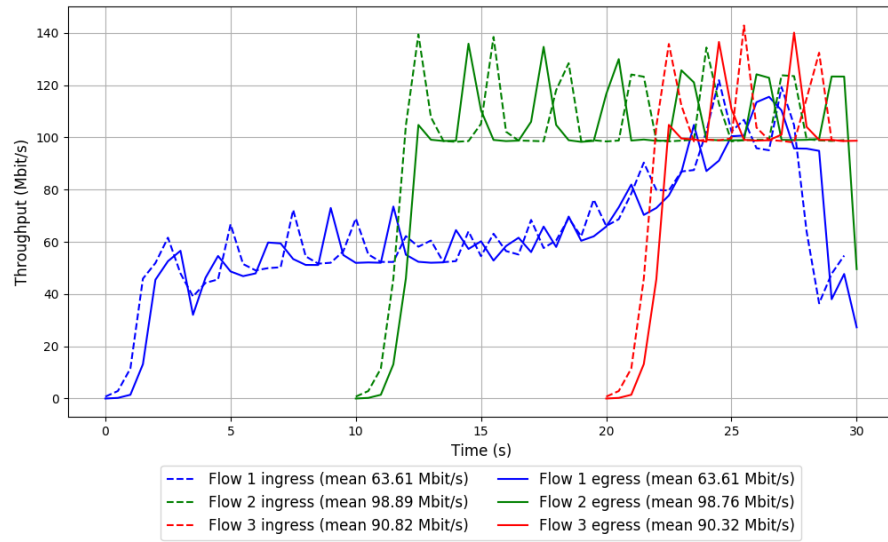
Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 123.499 ms

Loss rate: 2.75%



# Run 9: Report of TCP Cubic — Data Link

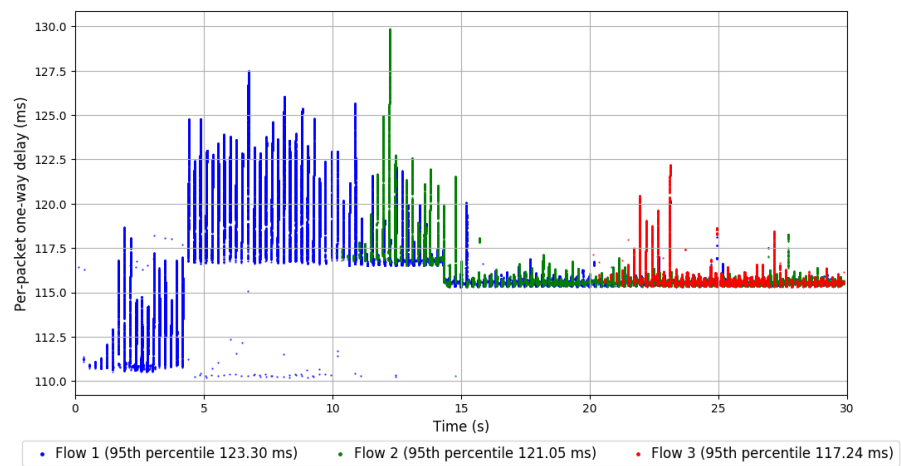
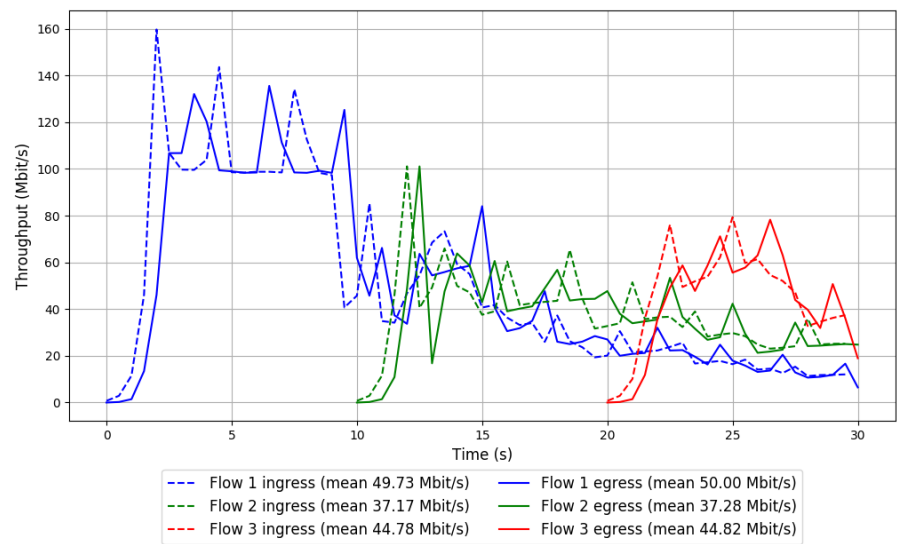


Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 19:54:26  
End at: 2018-05-24 19:54:56  
Local clock offset: -0.332 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-05-24 20:22:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.41 Mbit/s  
95th percentile per-packet one-way delay: 122.804 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 50.00 Mbit/s  
95th percentile per-packet one-way delay: 123.303 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 37.28 Mbit/s  
95th percentile per-packet one-way delay: 121.047 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 44.82 Mbit/s  
95th percentile per-packet one-way delay: 117.242 ms  
Loss rate: 2.11%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-24 16:07:24

End at: 2018-05-24 16:07:54

Local clock offset: 0.006 ms

Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2018-05-24 20:44:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1317.69 Mbit/s

95th percentile per-packet one-way delay: 180.141 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 721.54 Mbit/s

95th percentile per-packet one-way delay: 179.907 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 643.51 Mbit/s

95th percentile per-packet one-way delay: 194.515 ms

Loss rate: 2.64%

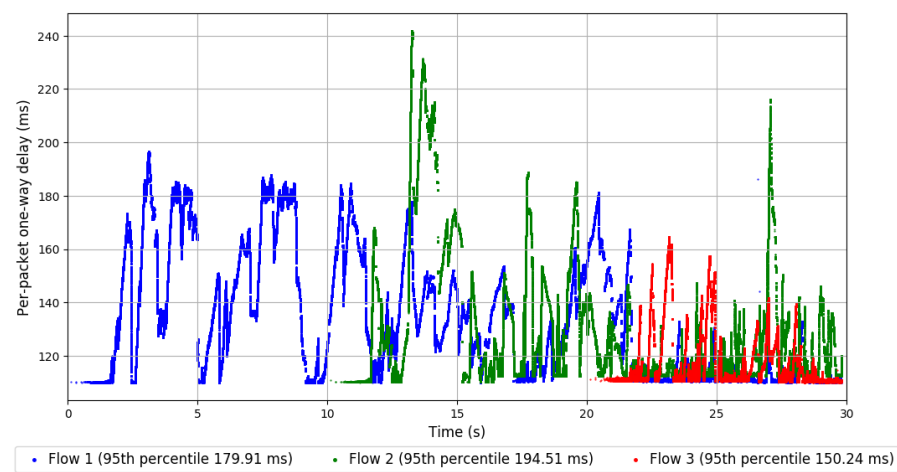
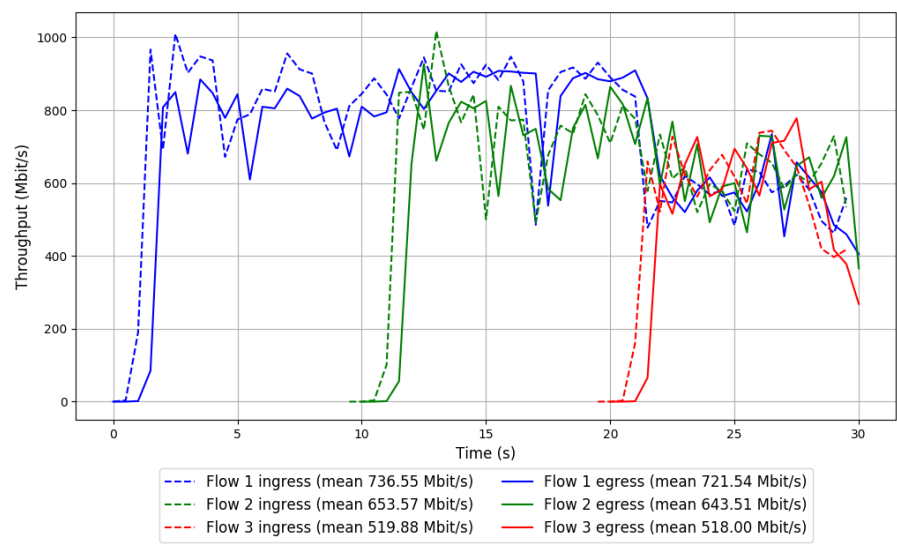
-- Flow 3:

Average throughput: 518.00 Mbit/s

95th percentile per-packet one-way delay: 150.235 ms

Loss rate: 2.59%

Run 1: Report of FillP — Data Link

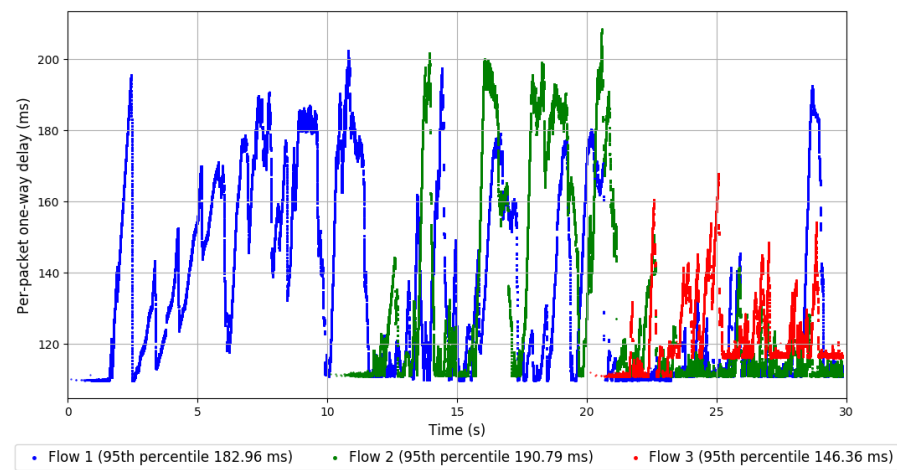
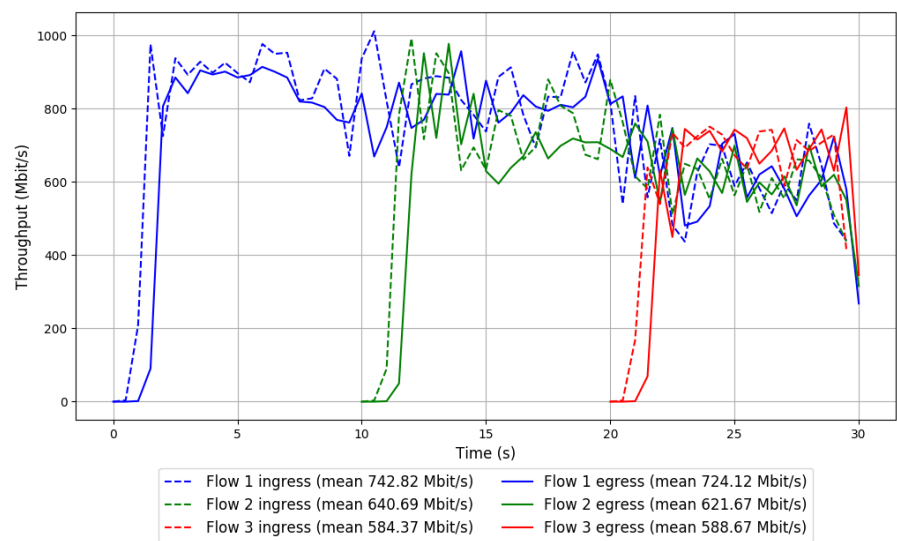


Run 2: Statistics of FillP

Start at: 2018-05-24 16:31:37  
End at: 2018-05-24 16:32:07  
Local clock offset: 0.044 ms  
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2018-05-24 20:45:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1328.64 Mbit/s  
95th percentile per-packet one-way delay: 185.017 ms  
Loss rate: 3.27%  
-- Flow 1:  
Average throughput: 724.12 Mbit/s  
95th percentile per-packet one-way delay: 182.960 ms  
Loss rate: 3.24%  
-- Flow 2:  
Average throughput: 621.67 Mbit/s  
95th percentile per-packet one-way delay: 190.789 ms  
Loss rate: 4.07%  
-- Flow 3:  
Average throughput: 588.67 Mbit/s  
95th percentile per-packet one-way delay: 146.364 ms  
Loss rate: 1.63%

Run 2: Report of FillP — Data Link



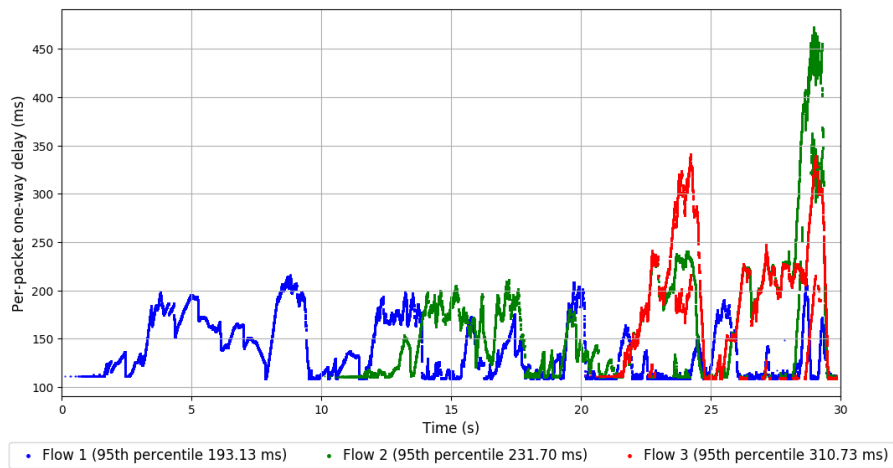
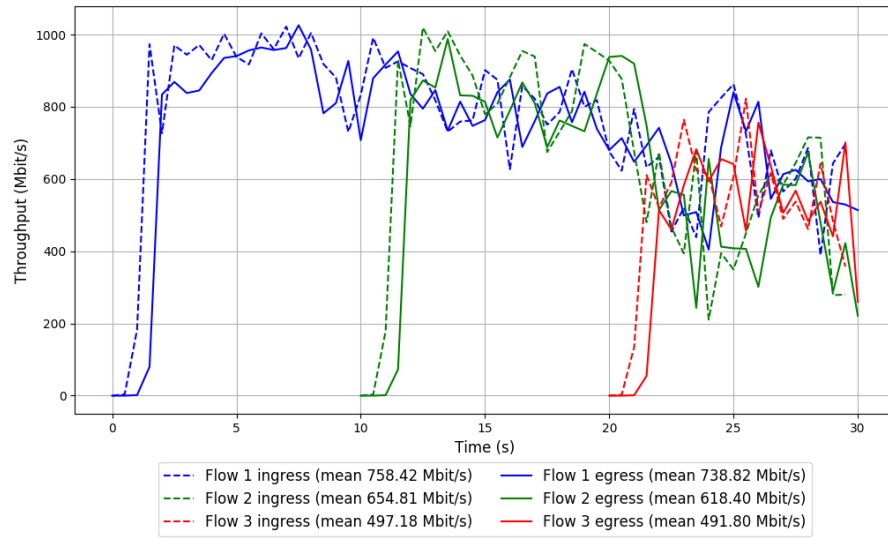
Run 3: Statistics of FillP

Start at: 2018-05-24 16:55:15  
End at: 2018-05-24 16:55:45  
Local clock offset: 0.183 ms  
Remote clock offset: -0.254 ms

# Below is generated by plot.py at 2018-05-24 20:45:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1309.16 Mbit/s  
95th percentile per-packet one-way delay: 228.361 ms  
Loss rate: 4.37%  
-- Flow 1:  
Average throughput: 738.82 Mbit/s  
95th percentile per-packet one-way delay: 193.129 ms  
Loss rate: 3.31%  
-- Flow 2:  
Average throughput: 618.40 Mbit/s  
95th percentile per-packet one-way delay: 231.698 ms  
Loss rate: 6.61%  
-- Flow 3:  
Average throughput: 491.80 Mbit/s  
95th percentile per-packet one-way delay: 310.731 ms  
Loss rate: 3.28%



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

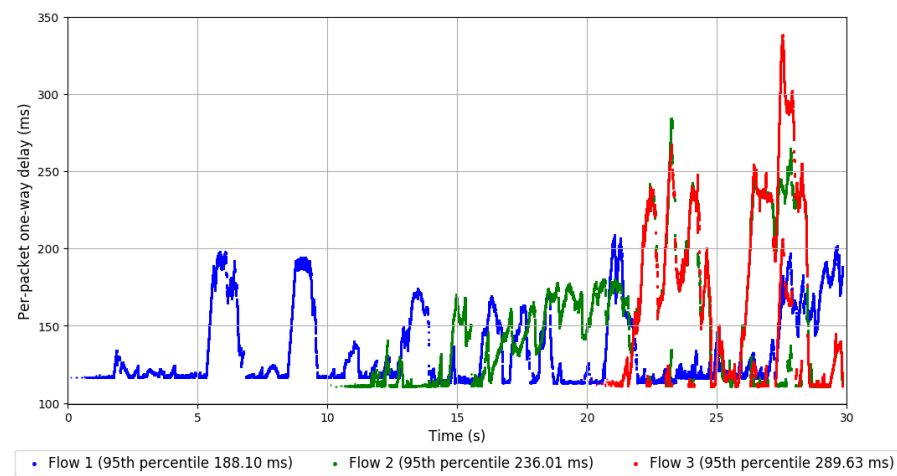
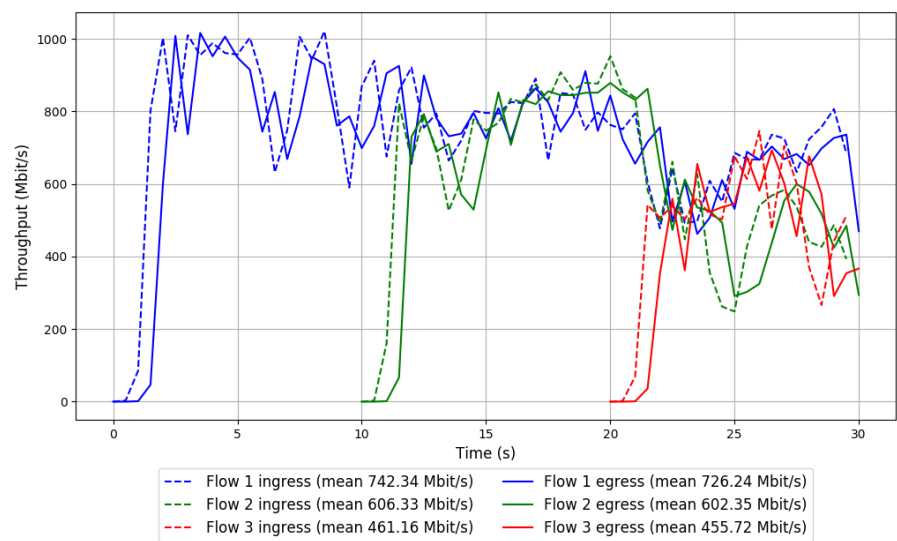


Run 4: Statistics of FillP

Start at: 2018-05-24 17:18:37  
End at: 2018-05-24 17:19:07  
Local clock offset: 0.167 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-05-24 20:45:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1274.48 Mbit/s  
95th percentile per-packet one-way delay: 232.588 ms  
Loss rate: 2.61%  
-- Flow 1:  
Average throughput: 726.24 Mbit/s  
95th percentile per-packet one-way delay: 188.099 ms  
Loss rate: 2.92%  
-- Flow 2:  
Average throughput: 602.35 Mbit/s  
95th percentile per-packet one-way delay: 236.014 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 455.72 Mbit/s  
95th percentile per-packet one-way delay: 289.633 ms  
Loss rate: 3.43%

Run 4: Report of FillP — Data Link

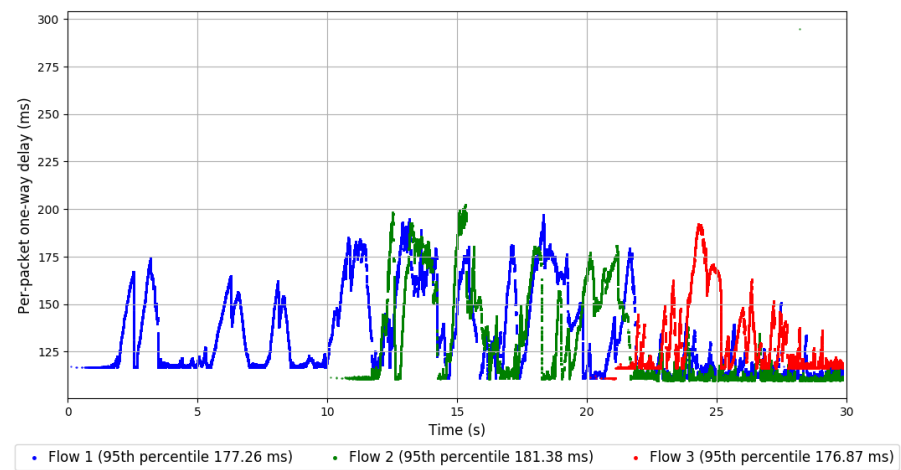
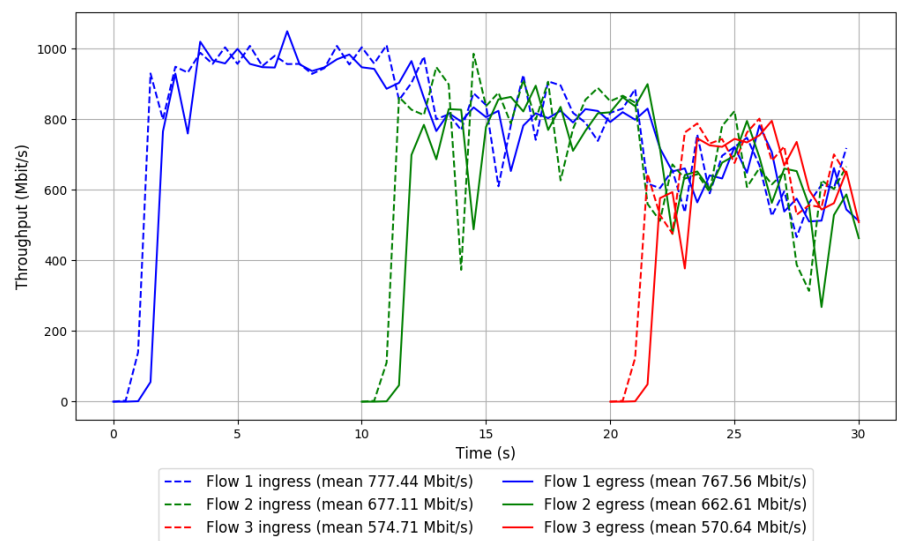


Run 5: Statistics of FillP

Start at: 2018-05-24 17:42:18  
End at: 2018-05-24 17:42:48  
Local clock offset: -0.041 ms  
Remote clock offset: -0.514 ms

# Below is generated by plot.py at 2018-05-24 20:47:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1393.44 Mbit/s  
95th percentile per-packet one-way delay: 178.525 ms  
Loss rate: 2.53%  
-- Flow 1:  
Average throughput: 767.56 Mbit/s  
95th percentile per-packet one-way delay: 177.257 ms  
Loss rate: 2.02%  
-- Flow 2:  
Average throughput: 662.61 Mbit/s  
95th percentile per-packet one-way delay: 181.380 ms  
Loss rate: 3.24%  
-- Flow 3:  
Average throughput: 570.64 Mbit/s  
95th percentile per-packet one-way delay: 176.869 ms  
Loss rate: 2.94%

Run 5: Report of FillP — Data Link

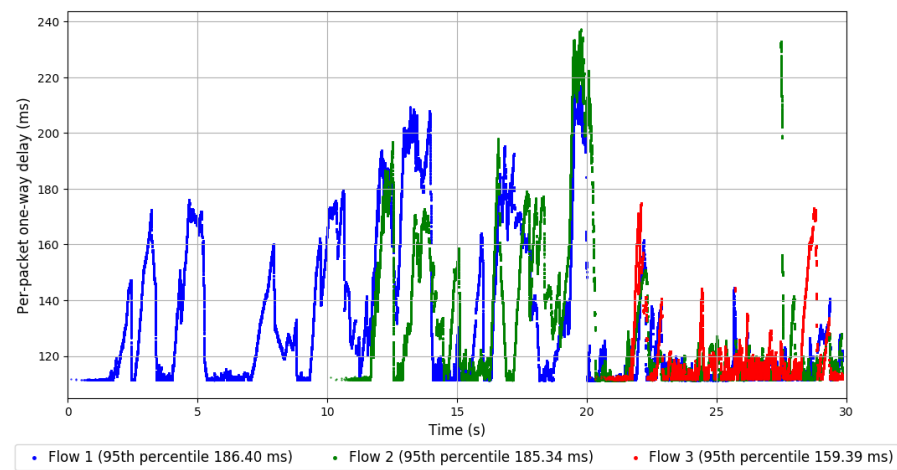
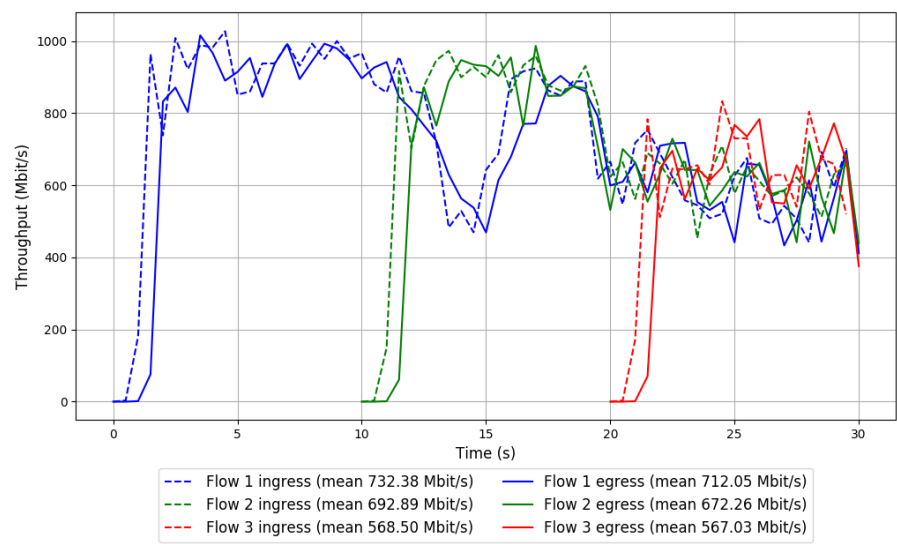


Run 6: Statistics of FillP

Start at: 2018-05-24 18:05:34  
End at: 2018-05-24 18:06:04  
Local clock offset: 0.316 ms  
Remote clock offset: -0.602 ms

# Below is generated by plot.py at 2018-05-24 20:47:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1342.90 Mbit/s  
95th percentile per-packet one-way delay: 182.917 ms  
Loss rate: 3.57%  
-- Flow 1:  
Average throughput: 712.05 Mbit/s  
95th percentile per-packet one-way delay: 186.397 ms  
Loss rate: 3.51%  
-- Flow 2:  
Average throughput: 672.26 Mbit/s  
95th percentile per-packet one-way delay: 185.335 ms  
Loss rate: 4.09%  
-- Flow 3:  
Average throughput: 567.03 Mbit/s  
95th percentile per-packet one-way delay: 159.391 ms  
Loss rate: 2.54%

Run 6: Report of FillP — Data Link



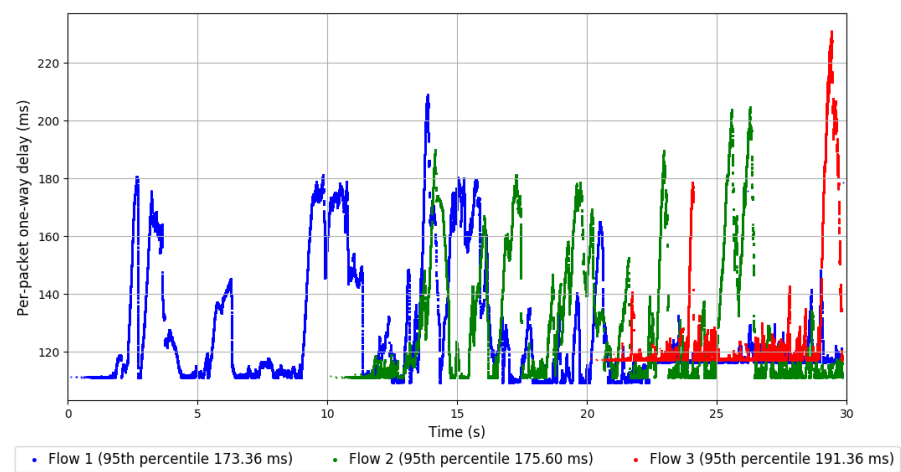
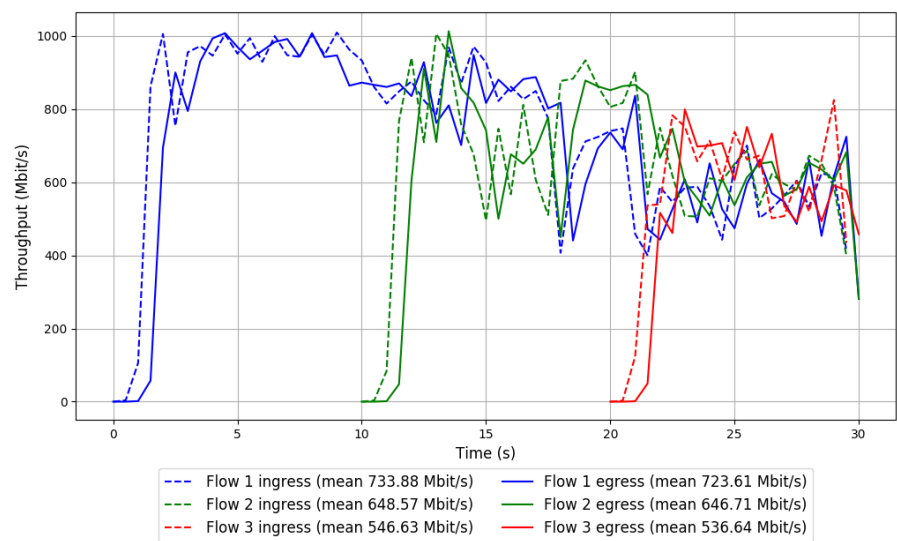
Run 7: Statistics of FillP

Start at: 2018-05-24 18:28:58  
End at: 2018-05-24 18:29:28  
Local clock offset: -0.074 ms  
Remote clock offset: -0.582 ms

# Below is generated by plot.py at 2018-05-24 20:47:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1326.39 Mbit/s  
95th percentile per-packet one-way delay: 174.577 ms  
Loss rate: 2.06%  
-- Flow 1:  
Average throughput: 723.61 Mbit/s  
95th percentile per-packet one-way delay: 173.362 ms  
Loss rate: 1.96%  
-- Flow 2:  
Average throughput: 646.71 Mbit/s  
95th percentile per-packet one-way delay: 175.601 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 536.64 Mbit/s  
95th percentile per-packet one-way delay: 191.363 ms  
Loss rate: 4.09%



Run 7: Report of FillP — Data Link

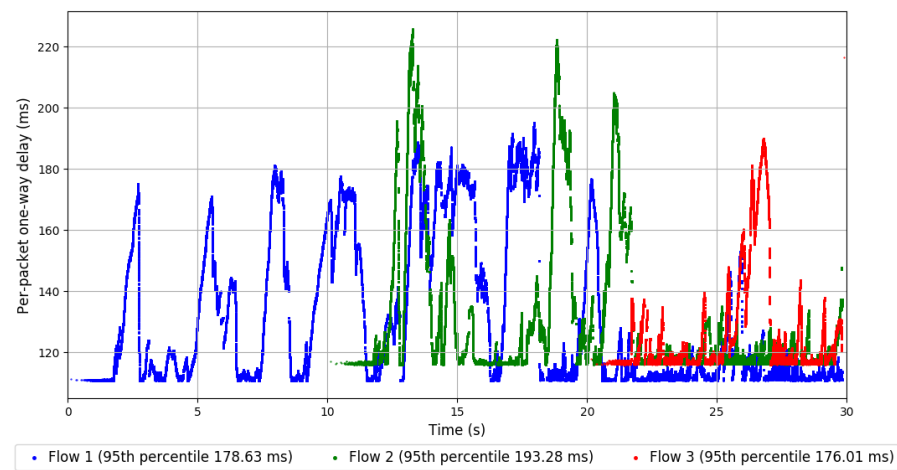
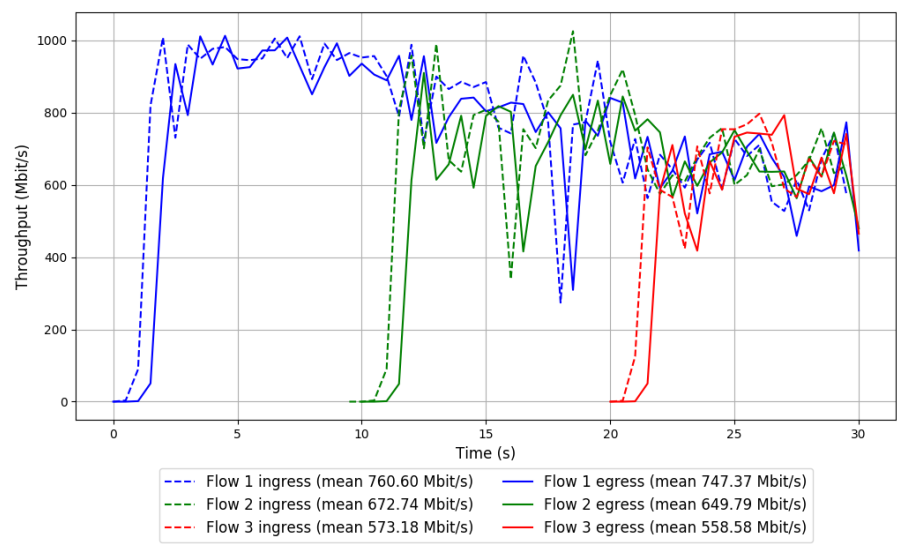


Run 8: Statistics of FillP

Start at: 2018-05-24 18:53:30  
End at: 2018-05-24 18:54:00  
Local clock offset: -0.409 ms  
Remote clock offset: -0.589 ms

# Below is generated by plot.py at 2018-05-24 20:49:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1358.20 Mbit/s  
95th percentile per-packet one-way delay: 180.801 ms  
Loss rate: 3.36%  
-- Flow 1:  
Average throughput: 747.37 Mbit/s  
95th percentile per-packet one-way delay: 178.635 ms  
Loss rate: 2.53%  
-- Flow 2:  
Average throughput: 649.79 Mbit/s  
95th percentile per-packet one-way delay: 193.277 ms  
Loss rate: 4.51%  
-- Flow 3:  
Average throughput: 558.58 Mbit/s  
95th percentile per-packet one-way delay: 176.007 ms  
Loss rate: 4.01%

Run 8: Report of FillP — Data Link

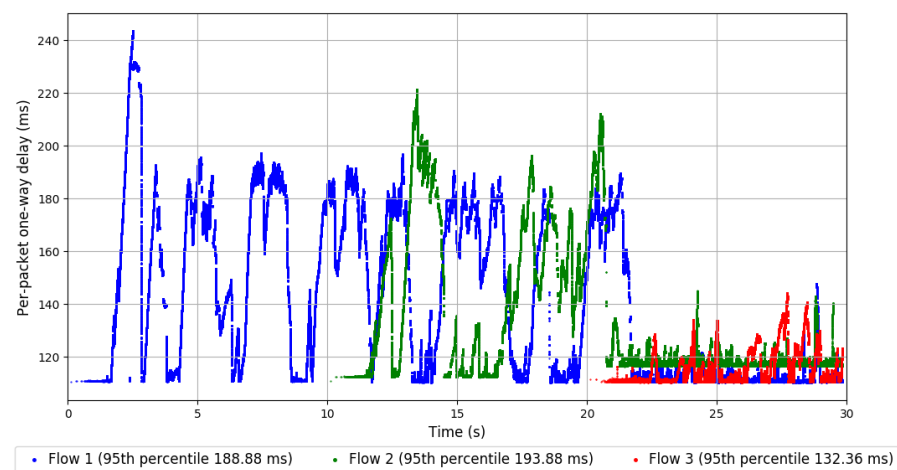
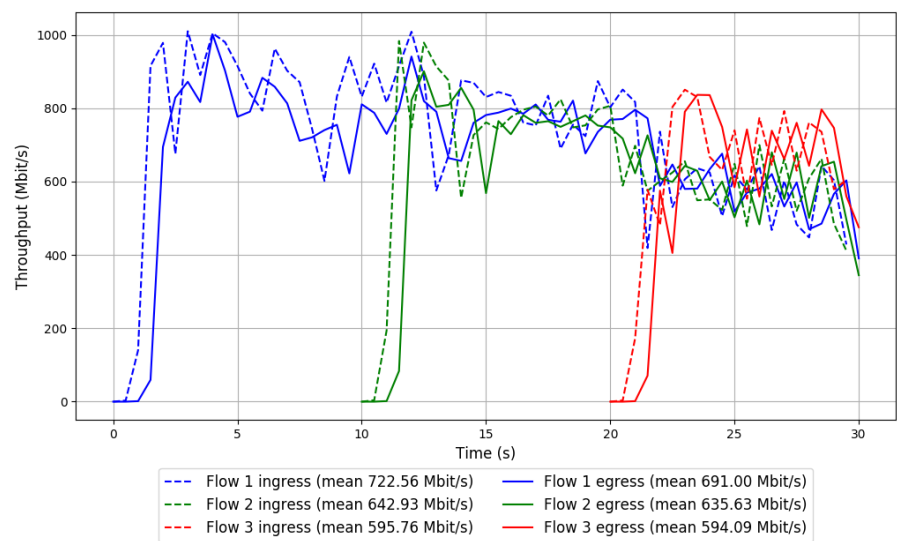


Run 9: Statistics of FillP

Start at: 2018-05-24 19:16:40  
End at: 2018-05-24 19:17:10  
Local clock offset: -0.161 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-05-24 21:10:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1306.64 Mbit/s  
95th percentile per-packet one-way delay: 188.980 ms  
Loss rate: 3.84%  
-- Flow 1:  
Average throughput: 691.00 Mbit/s  
95th percentile per-packet one-way delay: 188.877 ms  
Loss rate: 5.15%  
-- Flow 2:  
Average throughput: 635.63 Mbit/s  
95th percentile per-packet one-way delay: 193.879 ms  
Loss rate: 2.24%  
-- Flow 3:  
Average throughput: 594.09 Mbit/s  
95th percentile per-packet one-way delay: 132.361 ms  
Loss rate: 2.53%

Run 9: Report of FillP — Data Link

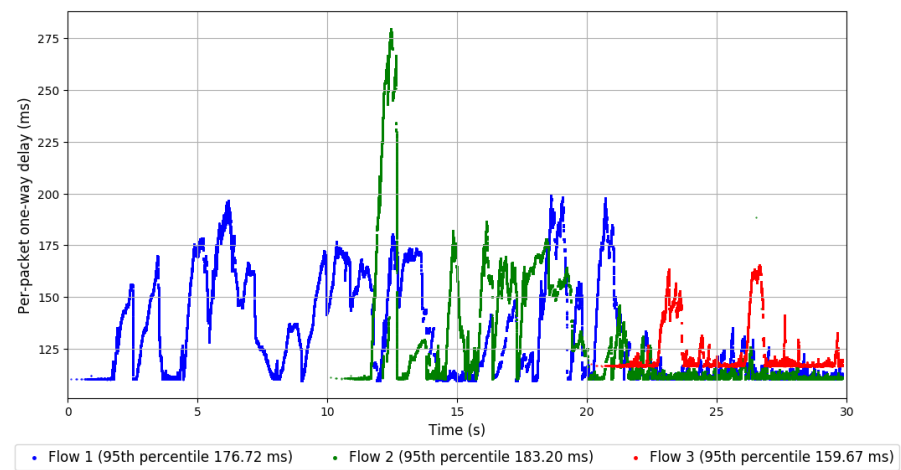
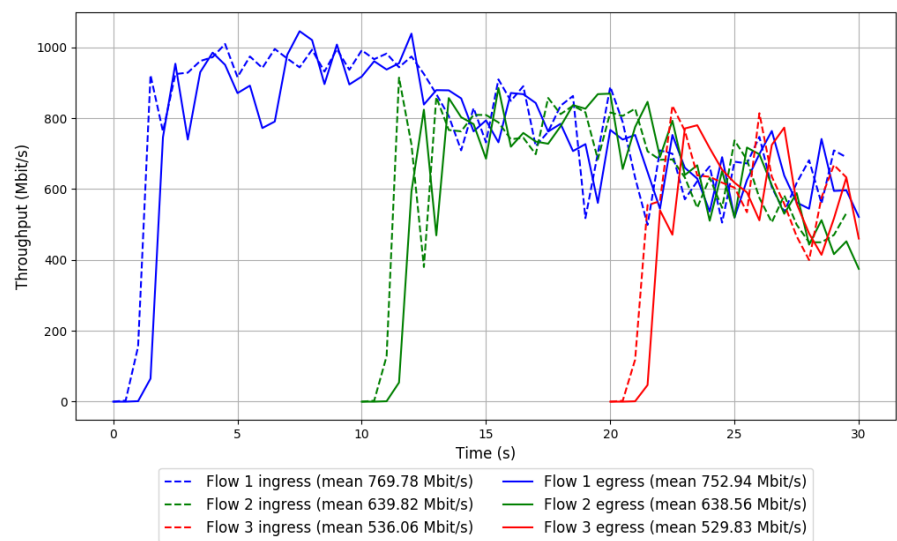


Run 10: Statistics of FillP

Start at: 2018-05-24 19:40:22  
End at: 2018-05-24 19:40:52  
Local clock offset: 0.128 ms  
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1349.03 Mbit/s  
95th percentile per-packet one-way delay: 175.661 ms  
Loss rate: 2.49%  
-- Flow 1:  
Average throughput: 752.94 Mbit/s  
95th percentile per-packet one-way delay: 176.718 ms  
Loss rate: 2.91%  
-- Flow 2:  
Average throughput: 638.56 Mbit/s  
95th percentile per-packet one-way delay: 183.200 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 529.83 Mbit/s  
95th percentile per-packet one-way delay: 159.670 ms  
Loss rate: 3.45%

Run 10: Report of FillP — Data Link



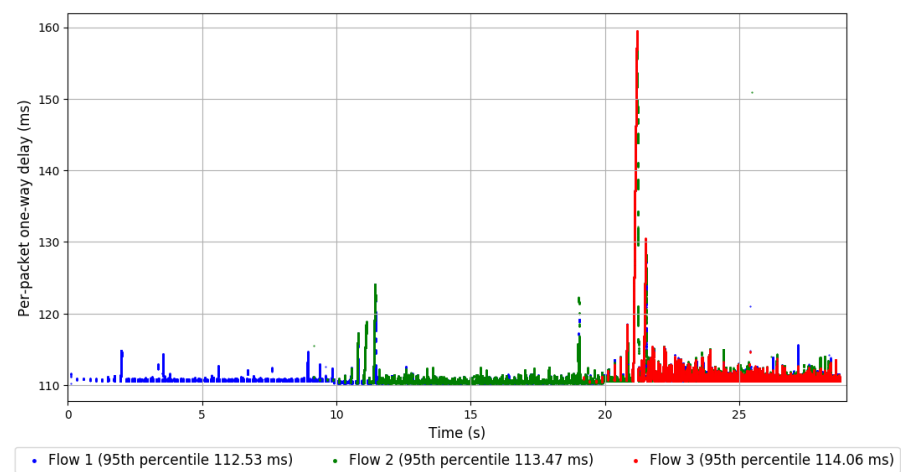
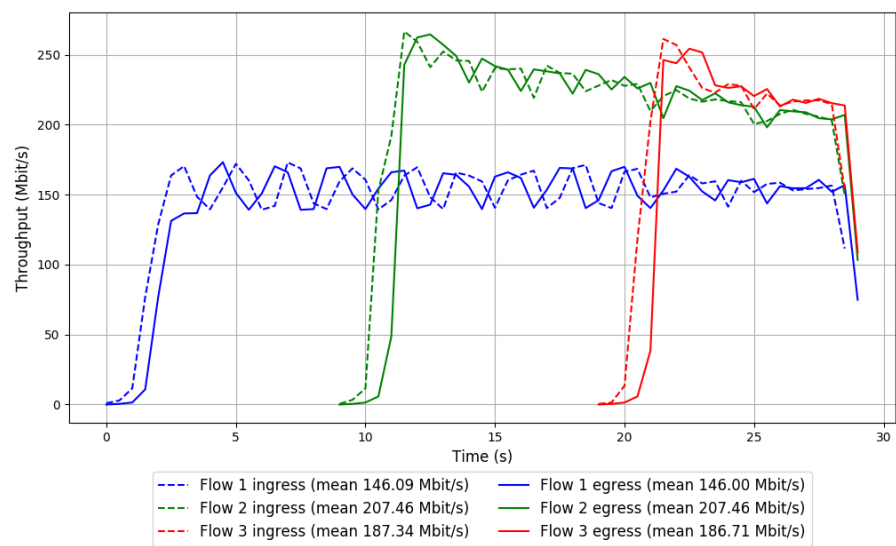
Run 1: Statistics of Indigo

Start at: 2018-05-24 16:14:19  
End at: 2018-05-24 16:14:49  
Local clock offset: -0.204 ms  
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 350.23 Mbit/s  
95th percentile per-packet one-way delay: 113.106 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 146.00 Mbit/s  
95th percentile per-packet one-way delay: 112.532 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 207.46 Mbit/s  
95th percentile per-packet one-way delay: 113.465 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 186.71 Mbit/s  
95th percentile per-packet one-way delay: 114.061 ms  
Loss rate: 2.59%



Run 1: Report of Indigo — Data Link

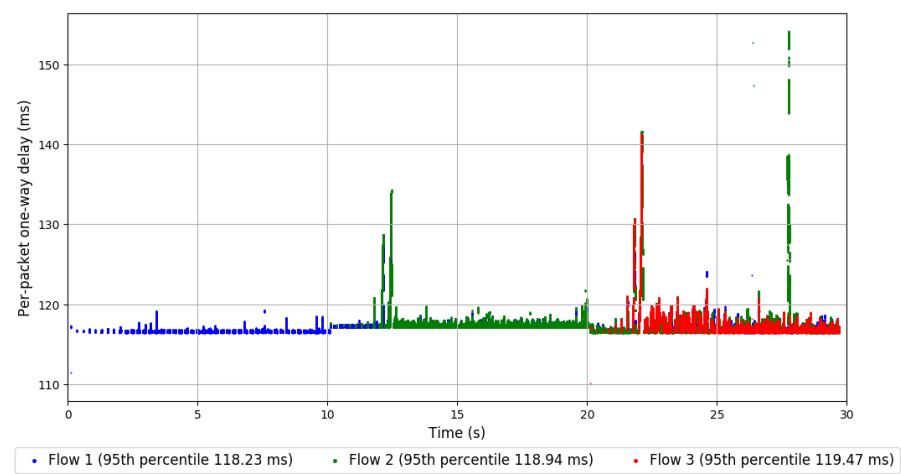
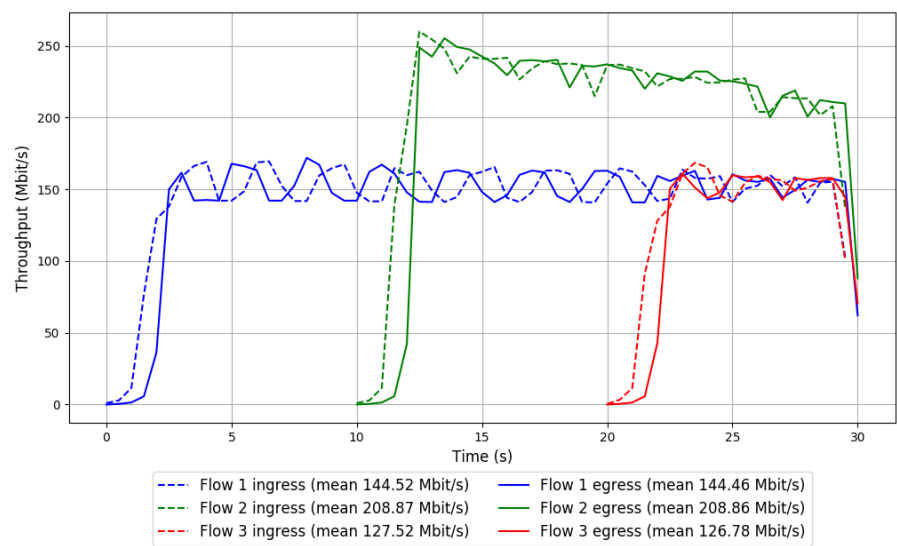


Run 2: Statistics of Indigo

Start at: 2018-05-24 16:38:30  
End at: 2018-05-24 16:39:00  
Local clock offset: 0.235 ms  
Remote clock offset: -0.636 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 323.61 Mbit/s  
95th percentile per-packet one-way delay: 118.773 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 144.46 Mbit/s  
95th percentile per-packet one-way delay: 118.234 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 208.86 Mbit/s  
95th percentile per-packet one-way delay: 118.941 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 126.78 Mbit/s  
95th percentile per-packet one-way delay: 119.470 ms  
Loss rate: 2.83%

Run 2: Report of Indigo — Data Link

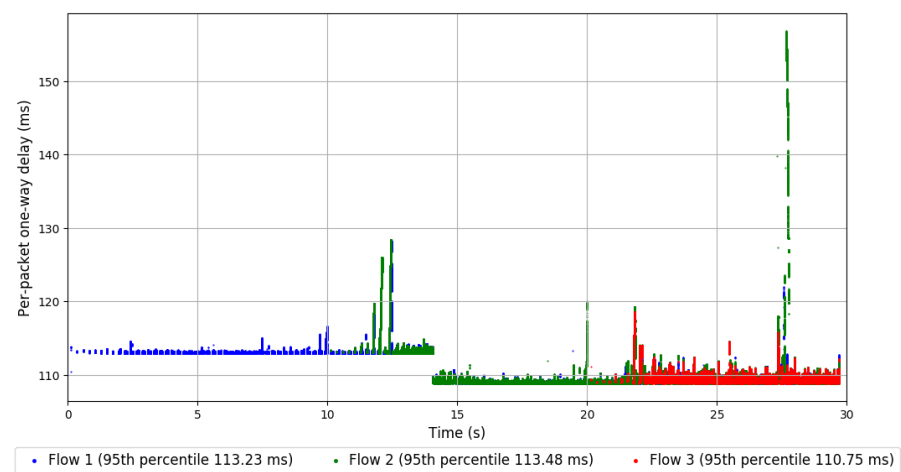
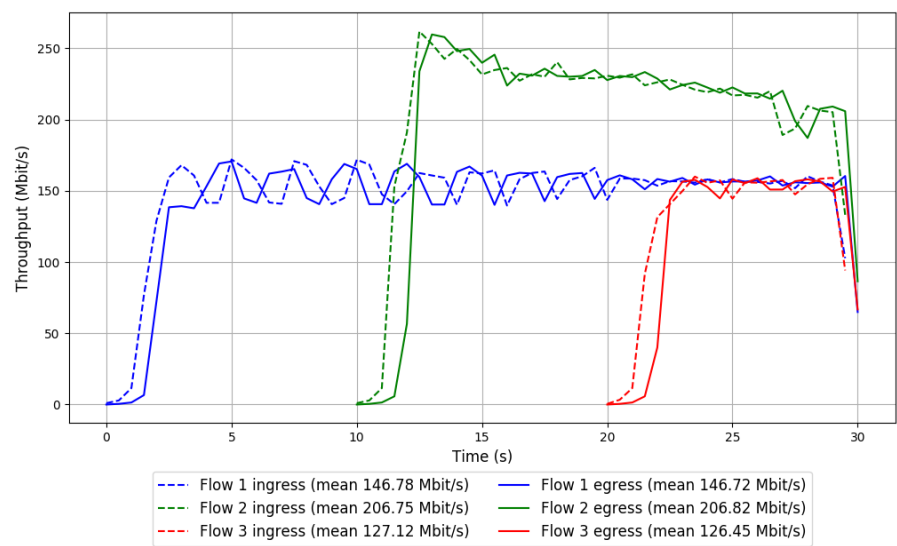


Run 3: Statistics of Indigo

Start at: 2018-05-24 17:01:56  
End at: 2018-05-24 17:02:26  
Local clock offset: 0.096 ms  
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 324.37 Mbit/s  
95th percentile per-packet one-way delay: 113.253 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 146.72 Mbit/s  
95th percentile per-packet one-way delay: 113.235 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 206.82 Mbit/s  
95th percentile per-packet one-way delay: 113.477 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 126.45 Mbit/s  
95th percentile per-packet one-way delay: 110.748 ms  
Loss rate: 2.78%

Run 3: Report of Indigo — Data Link

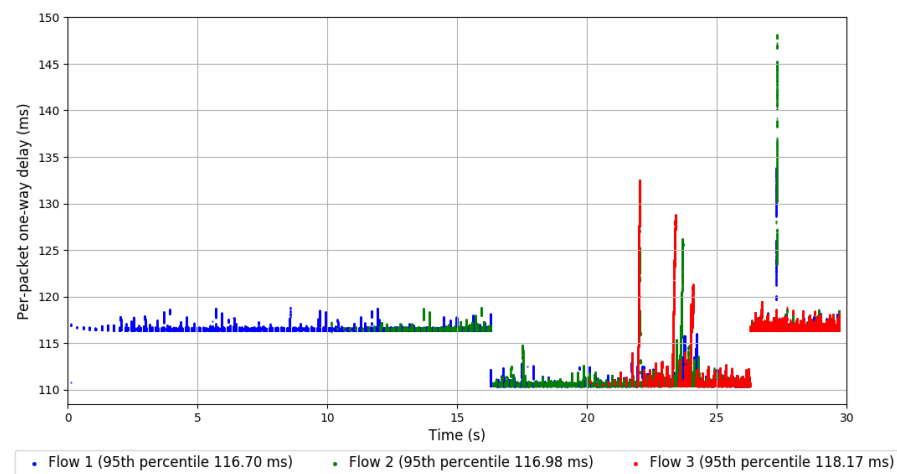
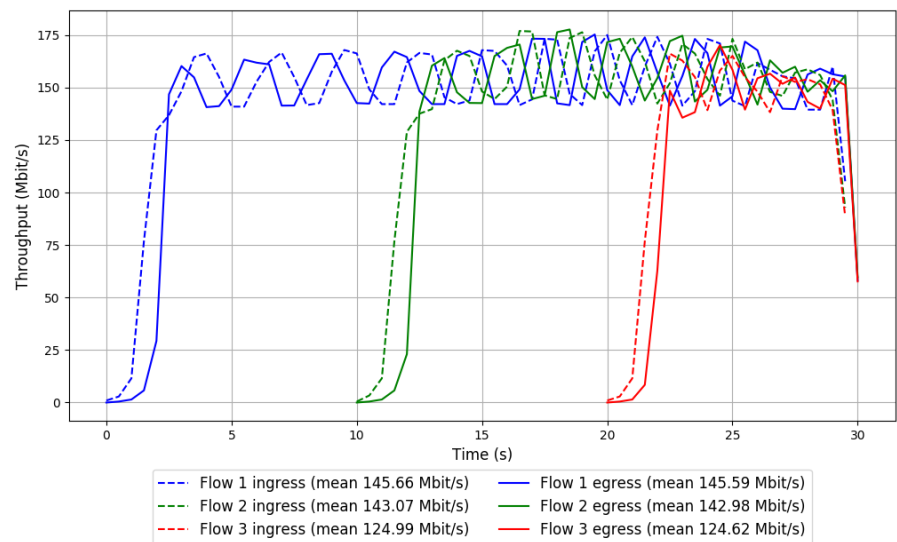


Run 4: Statistics of Indigo

Start at: 2018-05-24 17:25:24  
End at: 2018-05-24 17:25:54  
Local clock offset: -0.023 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 280.42 Mbit/s  
95th percentile per-packet one-way delay: 116.969 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 145.59 Mbit/s  
95th percentile per-packet one-way delay: 116.701 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 142.98 Mbit/s  
95th percentile per-packet one-way delay: 116.977 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 124.62 Mbit/s  
95th percentile per-packet one-way delay: 118.170 ms  
Loss rate: 2.59%

Run 4: Report of Indigo — Data Link



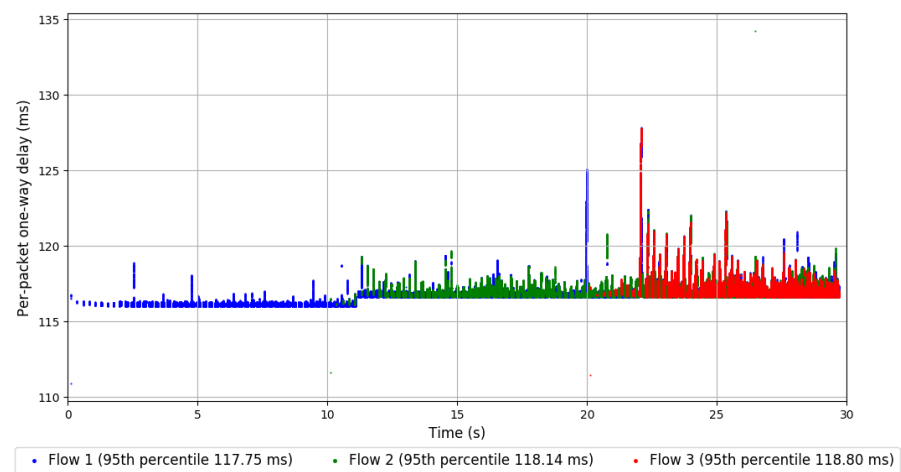
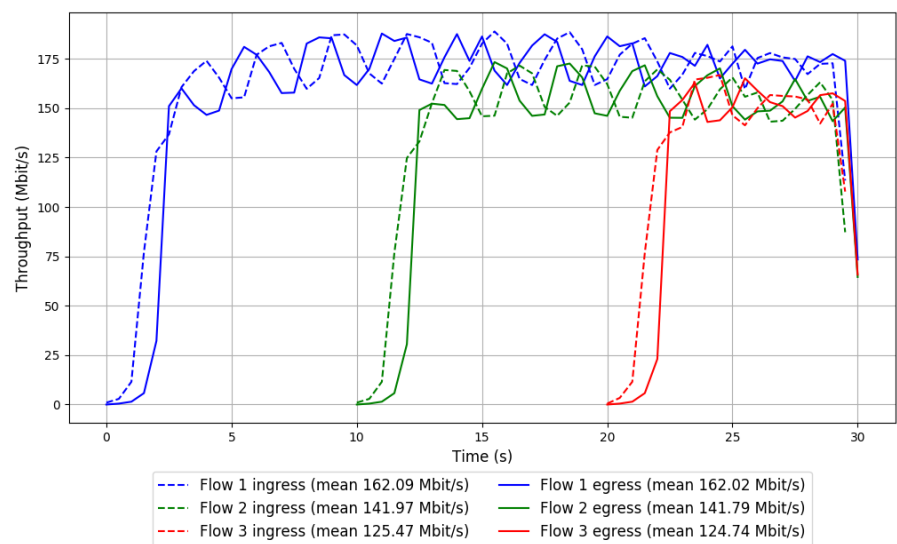
Run 5: Statistics of Indigo

Start at: 2018-05-24 17:49:09  
End at: 2018-05-24 17:49:39  
Local clock offset: 0.167 ms  
Remote clock offset: -0.187 ms

```
# Below is generated by plot.py at 2018-05-24 21:12:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.25 Mbit/s
95th percentile per-packet one-way delay: 118.064 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 162.02 Mbit/s
95th percentile per-packet one-way delay: 117.745 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 141.79 Mbit/s
95th percentile per-packet one-way delay: 118.136 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 124.74 Mbit/s
95th percentile per-packet one-way delay: 118.804 ms
Loss rate: 2.85%
```



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-24 18:12:21

End at: 2018-05-24 18:12:51

Local clock offset: 0.183 ms

Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2018-05-24 21:12:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 379.59 Mbit/s

95th percentile per-packet one-way delay: 117.559 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 207.45 Mbit/s

95th percentile per-packet one-way delay: 117.185 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 199.47 Mbit/s

95th percentile per-packet one-way delay: 117.775 ms

Loss rate: 1.20%

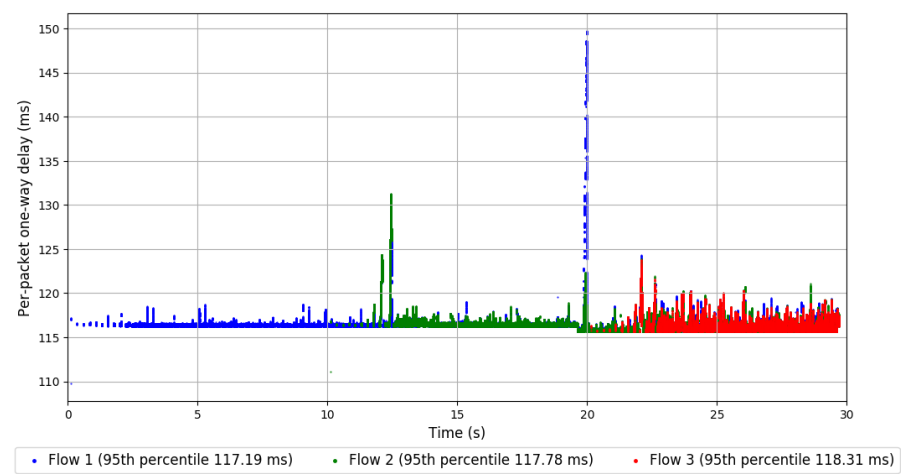
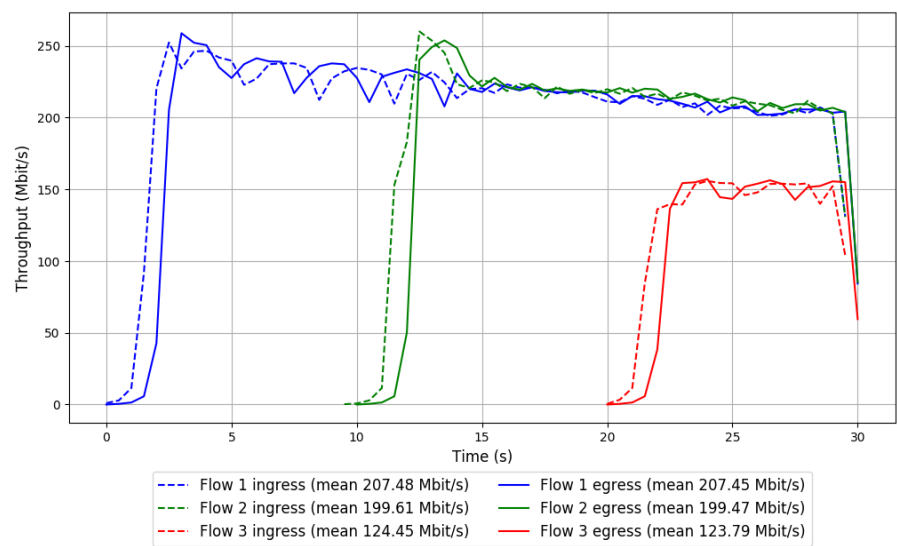
-- Flow 3:

Average throughput: 123.79 Mbit/s

95th percentile per-packet one-way delay: 118.305 ms

Loss rate: 2.84%

Run 6: Report of Indigo — Data Link

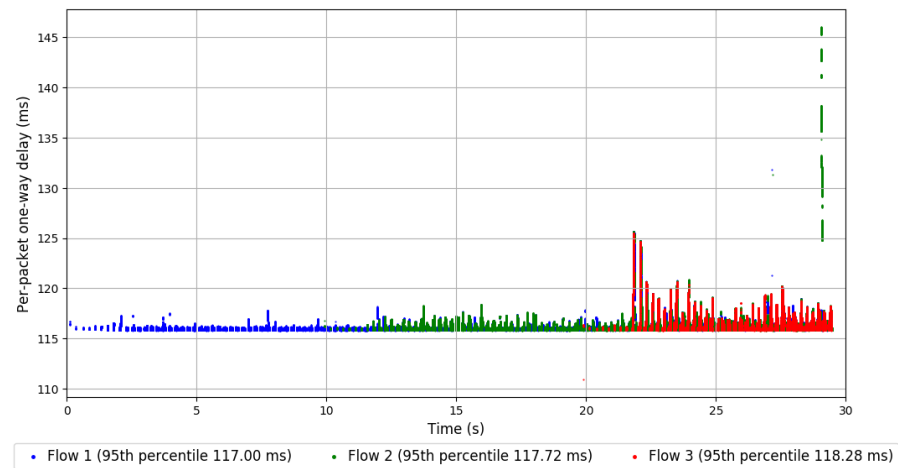
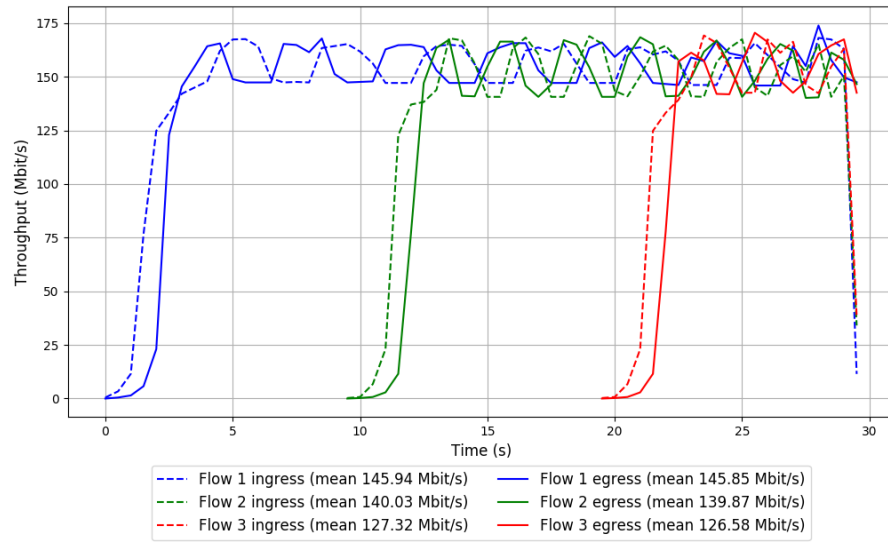


Run 7: Statistics of Indigo

Start at: 2018-05-24 18:36:16  
End at: 2018-05-24 18:36:46  
Local clock offset: -0.19 ms  
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 280.16 Mbit/s  
95th percentile per-packet one-way delay: 117.543 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 145.85 Mbit/s  
95th percentile per-packet one-way delay: 117.002 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 139.87 Mbit/s  
95th percentile per-packet one-way delay: 117.719 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 126.58 Mbit/s  
95th percentile per-packet one-way delay: 118.275 ms  
Loss rate: 2.86%

## Run 7: Report of Indigo — Data Link

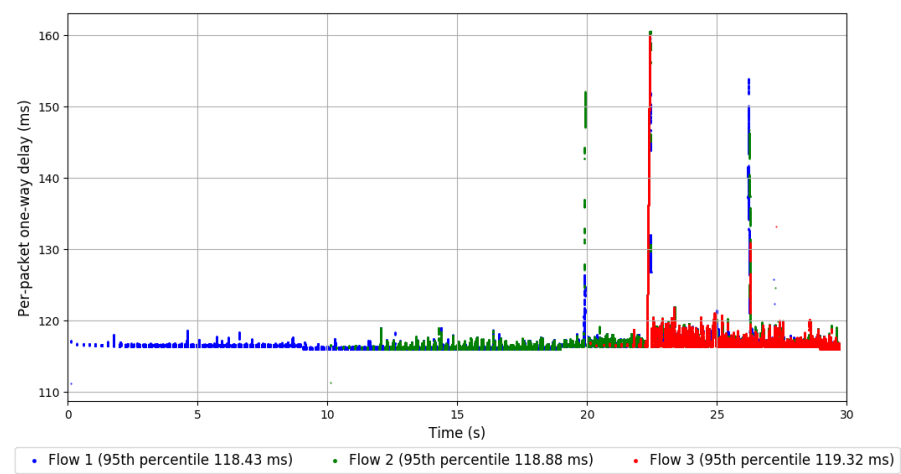
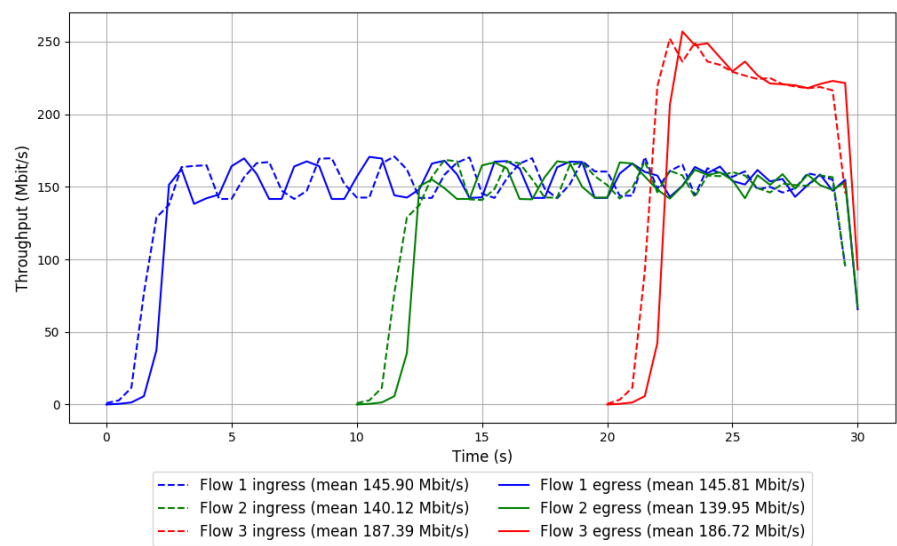


Run 8: Statistics of Indigo

Start at: 2018-05-24 19:00:11  
End at: 2018-05-24 19:00:41  
Local clock offset: -0.113 ms  
Remote clock offset: -0.653 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 298.91 Mbit/s  
95th percentile per-packet one-way delay: 118.803 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 145.81 Mbit/s  
95th percentile per-packet one-way delay: 118.434 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 139.95 Mbit/s  
95th percentile per-packet one-way delay: 118.875 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 186.72 Mbit/s  
95th percentile per-packet one-way delay: 119.323 ms  
Loss rate: 2.67%

Run 8: Report of Indigo — Data Link



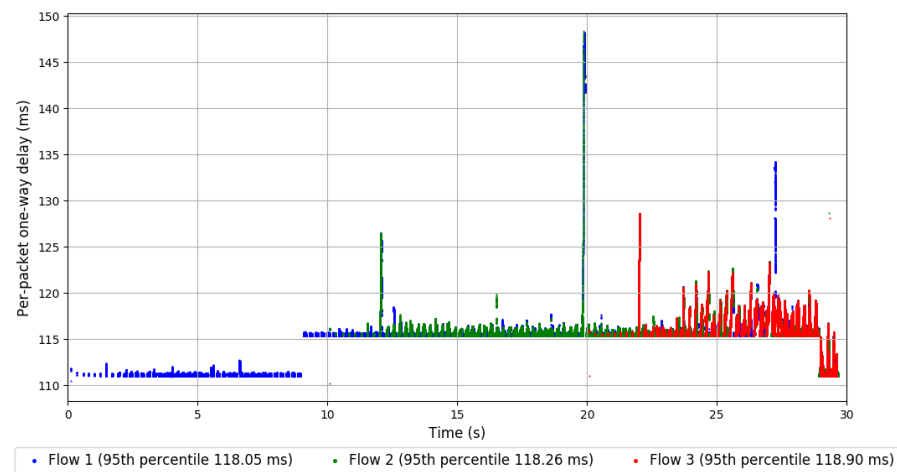
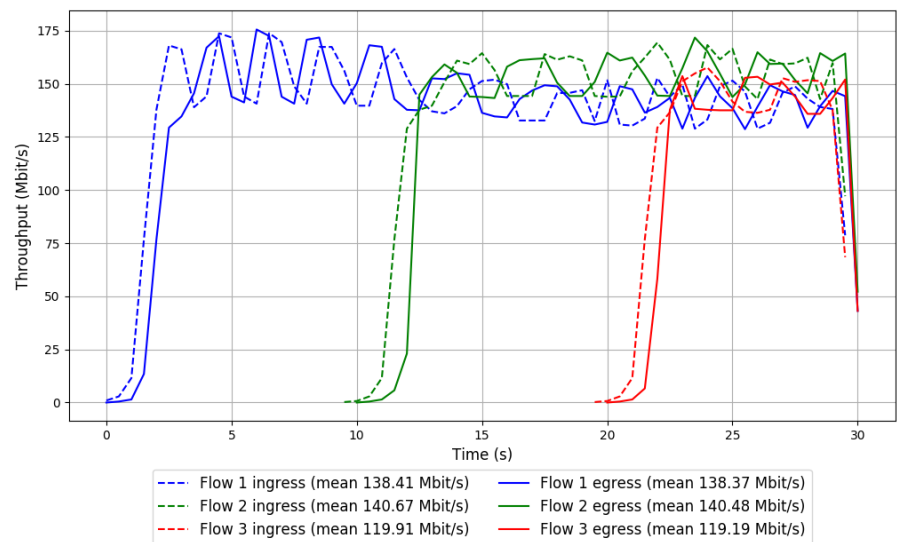
Run 9: Statistics of Indigo

Start at: 2018-05-24 19:23:31  
End at: 2018-05-24 19:24:01  
Local clock offset: 0.221 ms  
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 269.69 Mbit/s  
95th percentile per-packet one-way delay: 118.280 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 138.37 Mbit/s  
95th percentile per-packet one-way delay: 118.046 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 140.48 Mbit/s  
95th percentile per-packet one-way delay: 118.261 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 119.19 Mbit/s  
95th percentile per-packet one-way delay: 118.897 ms  
Loss rate: 2.93%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-24 19:47:13

End at: 2018-05-24 19:47:43

Local clock offset: -0.04 ms

Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2018-05-24 21:12:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 375.77 Mbit/s

95th percentile per-packet one-way delay: 116.068 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 208.37 Mbit/s

95th percentile per-packet one-way delay: 115.816 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 191.16 Mbit/s

95th percentile per-packet one-way delay: 116.815 ms

Loss rate: 0.98%

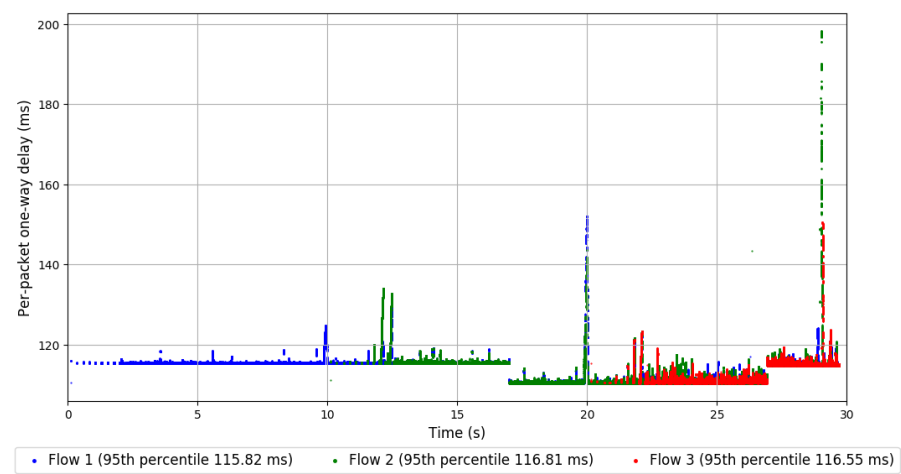
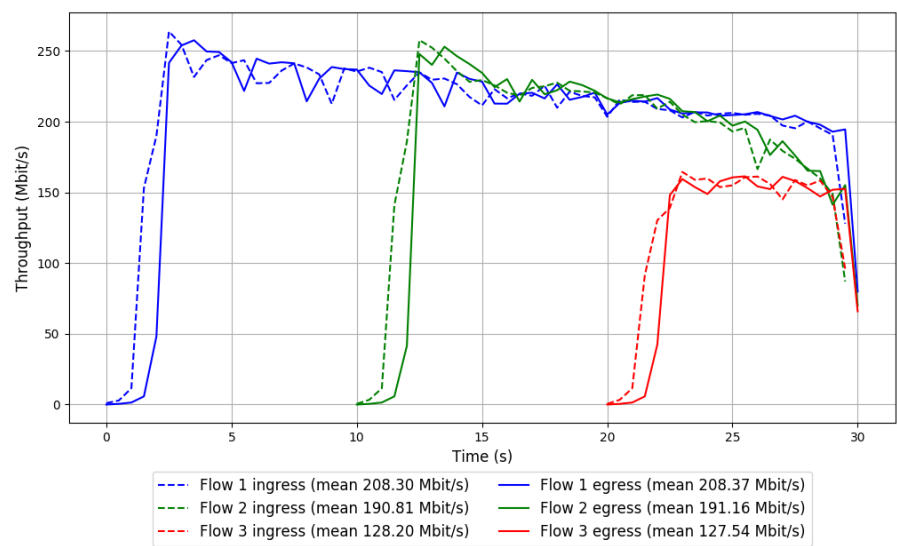
-- Flow 3:

Average throughput: 127.54 Mbit/s

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

Loss rate: 2.78%

Run 10: Report of Indigo — Data Link

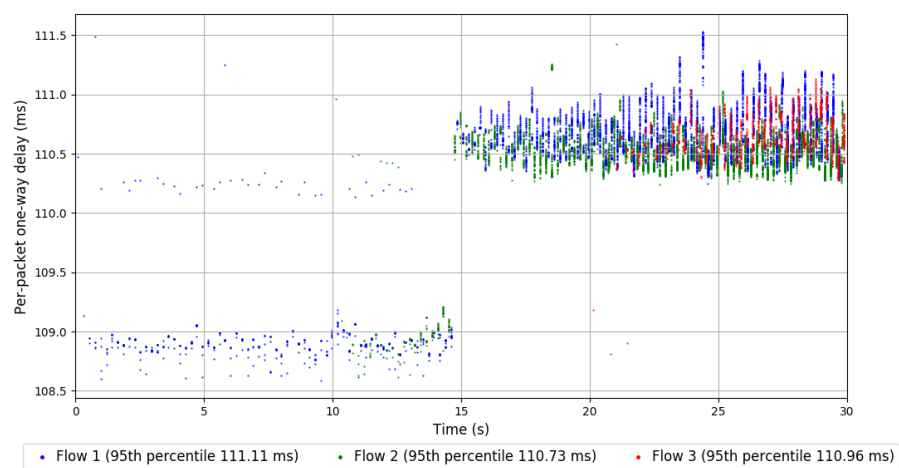
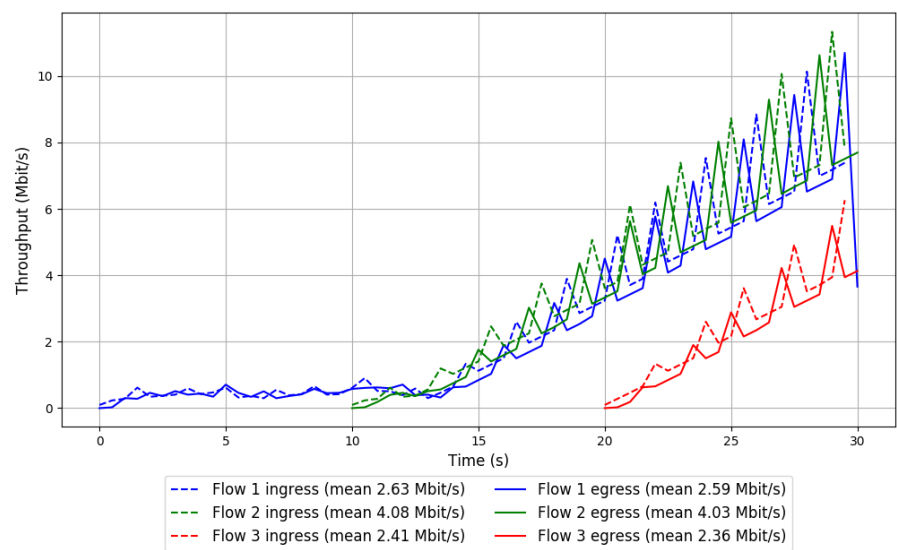


Run 1: Statistics of LEDBAT

Start at: 2018-05-24 16:00:26  
End at: 2018-05-24 16:00:56  
Local clock offset: -0.239 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.01 Mbit/s  
95th percentile per-packet one-way delay: 110.971 ms  
Loss rate: 2.67%  
-- Flow 1:  
Average throughput: 2.59 Mbit/s  
95th percentile per-packet one-way delay: 111.109 ms  
Loss rate: 2.38%  
-- Flow 2:  
Average throughput: 4.03 Mbit/s  
95th percentile per-packet one-way delay: 110.733 ms  
Loss rate: 2.43%  
-- Flow 3:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 110.957 ms  
Loss rate: 4.44%

Run 1: Report of LEDBAT — Data Link

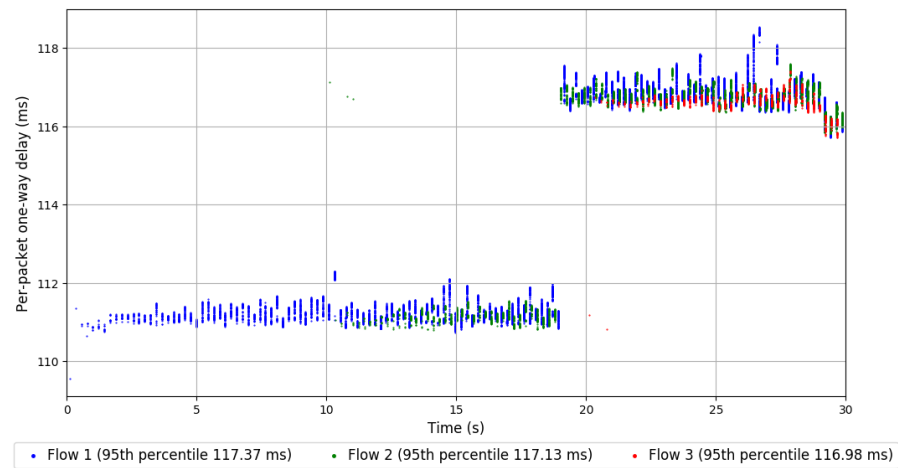
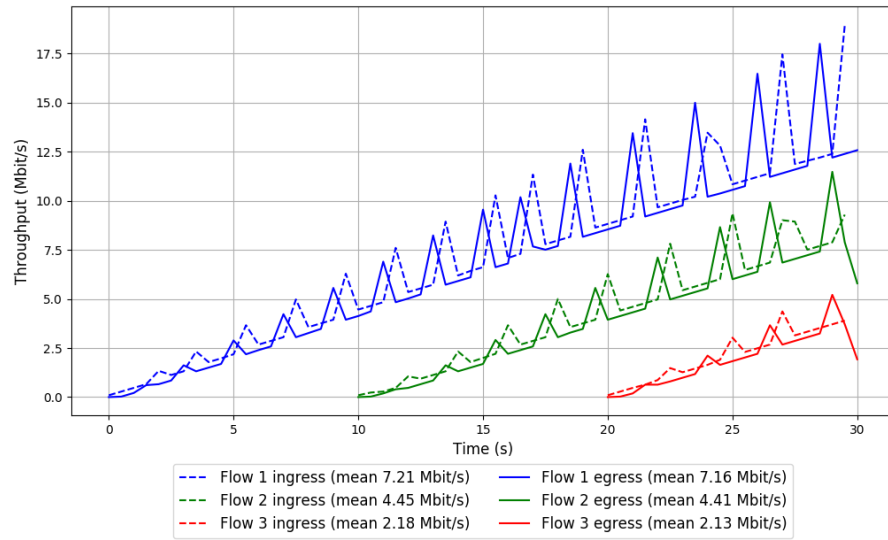


Run 2: Statistics of LEDBAT

Start at: 2018-05-24 16:24:31  
End at: 2018-05-24 16:25:01  
Local clock offset: -0.164 ms  
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.76 Mbit/s  
95th percentile per-packet one-way delay: 117.314 ms  
Loss rate: 1.81%  
-- Flow 1:  
Average throughput: 7.16 Mbit/s  
95th percentile per-packet one-way delay: 117.367 ms  
Loss rate: 1.47%  
-- Flow 2:  
Average throughput: 4.41 Mbit/s  
95th percentile per-packet one-way delay: 117.128 ms  
Loss rate: 1.97%  
-- Flow 3:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 116.985 ms  
Loss rate: 4.63%

## Run 2: Report of LEDBAT — Data Link



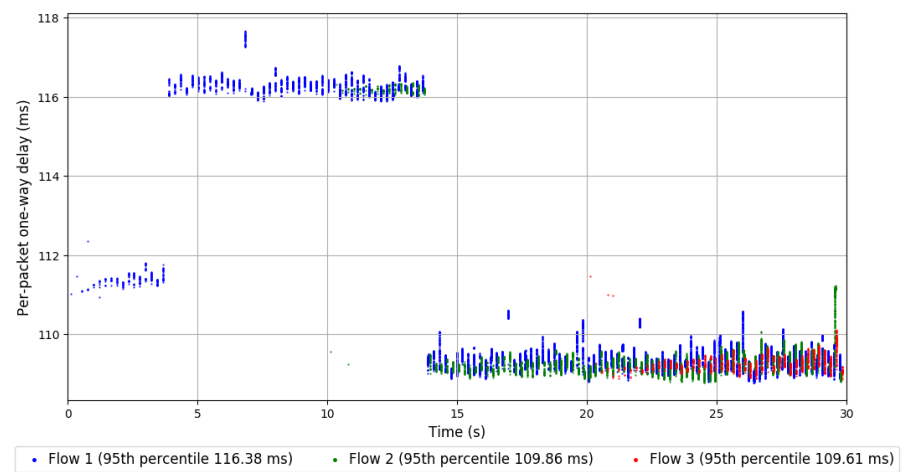
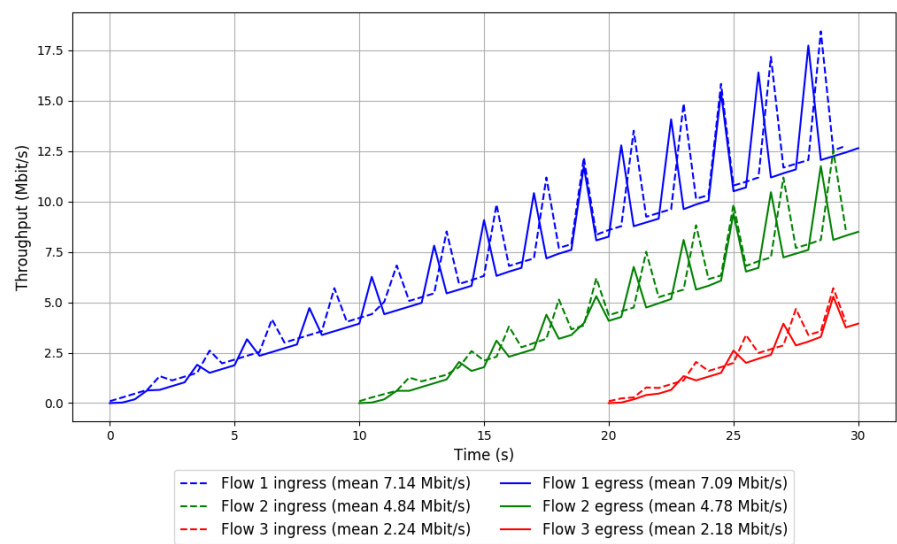
Run 3: Statistics of LEDBAT

Start at: 2018-05-24 16:48:27  
End at: 2018-05-24 16:48:57  
Local clock offset: 0.012 ms  
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.94 Mbit/s  
95th percentile per-packet one-way delay: 116.319 ms  
Loss rate: 1.92%  
-- Flow 1:  
Average throughput: 7.09 Mbit/s  
95th percentile per-packet one-way delay: 116.380 ms  
Loss rate: 1.50%  
-- Flow 2:  
Average throughput: 4.78 Mbit/s  
95th percentile per-packet one-way delay: 109.862 ms  
Loss rate: 2.24%  
-- Flow 3:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 109.611 ms  
Loss rate: 4.60%



Run 3: Report of LEDBAT — Data Link

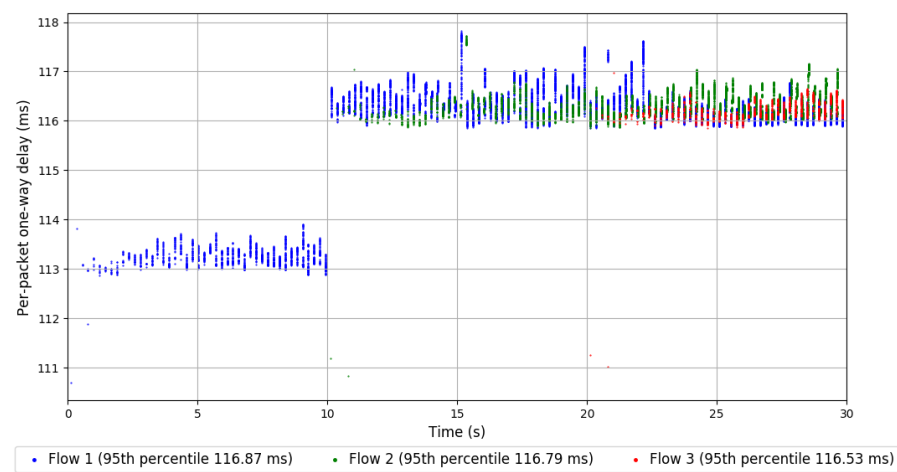
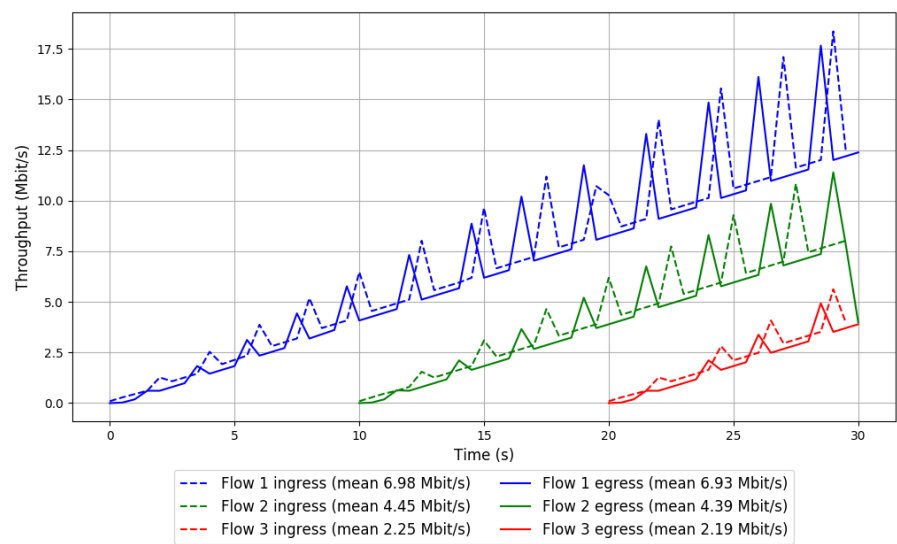


Run 4: Statistics of LEDBAT

Start at: 2018-05-24 17:11:50  
End at: 2018-05-24 17:12:20  
Local clock offset: -0.038 ms  
Remote clock offset: -0.259 ms

```
# Below is generated by plot.py at 2018-05-24 21:12:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 116.838 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 116.868 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 116.791 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 116.526 ms
Loss rate: 4.53%
```

Run 4: Report of LEDBAT — Data Link

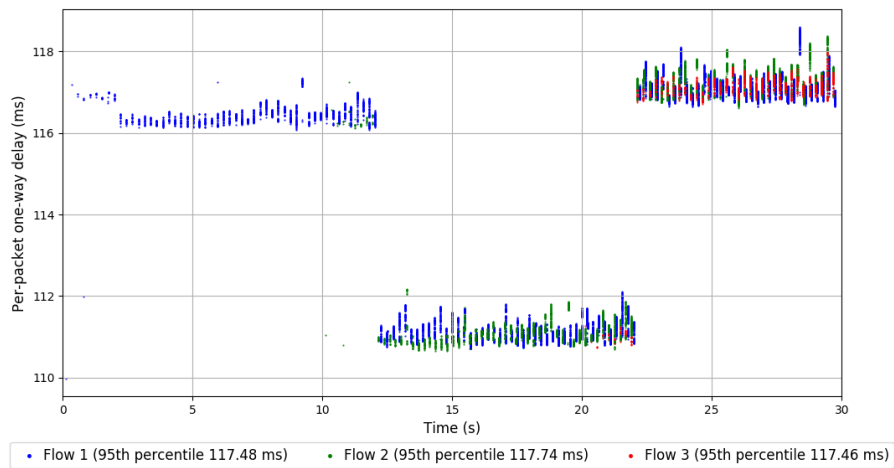
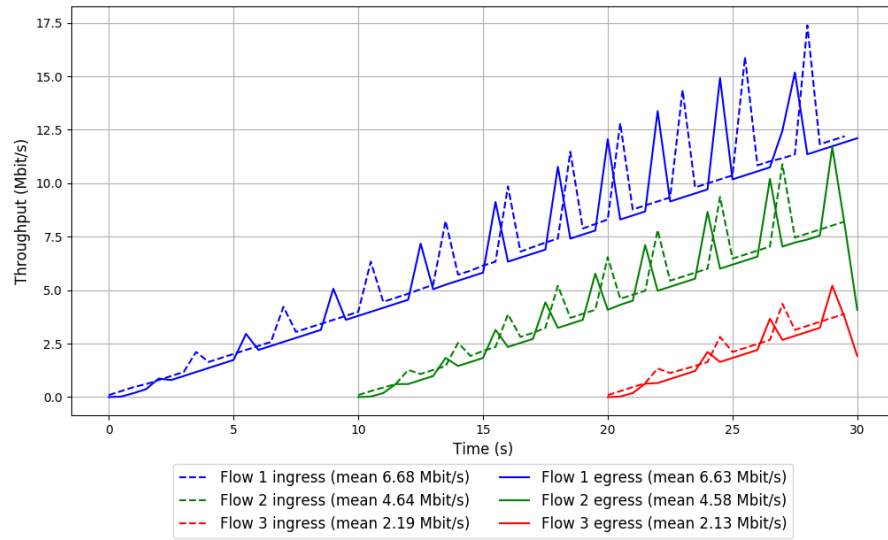


Run 5: Statistics of LEDBAT

Start at: 2018-05-24 17:35:18  
End at: 2018-05-24 17:35:48  
Local clock offset: 0.291 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.34 Mbit/s  
95th percentile per-packet one-way delay: 117.607 ms  
Loss rate: 1.96%  
-- Flow 1:  
Average throughput: 6.63 Mbit/s  
95th percentile per-packet one-way delay: 117.480 ms  
Loss rate: 1.53%  
-- Flow 2:  
Average throughput: 4.58 Mbit/s  
95th percentile per-packet one-way delay: 117.743 ms  
Loss rate: 2.25%  
-- Flow 3:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 117.460 ms  
Loss rate: 4.62%

## Run 5: Report of LEDBAT — Data Link

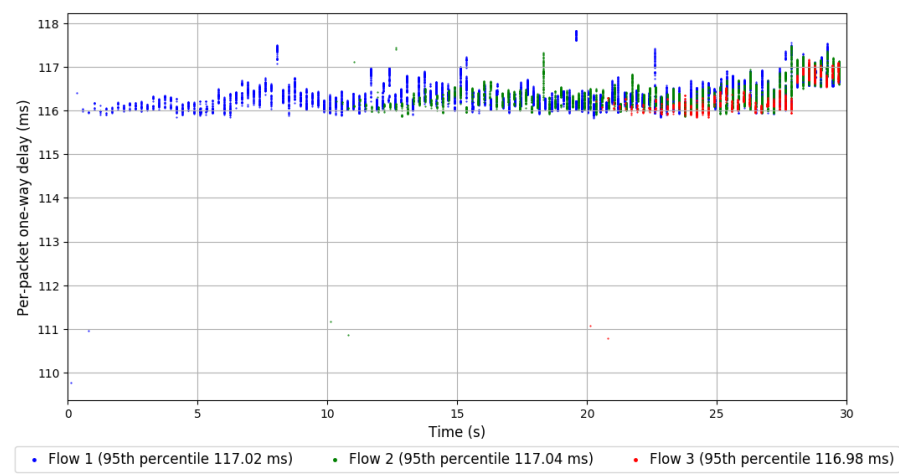
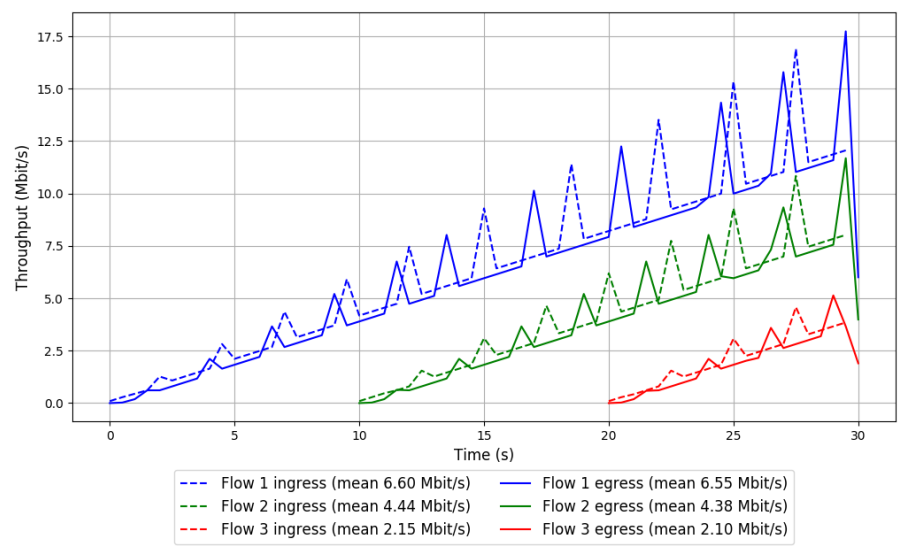


Run 6: Statistics of LEDBAT

Start at: 2018-05-24 17:58:53  
End at: 2018-05-24 17:59:23  
Local clock offset: 0.027 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-05-24 21:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.12 Mbit/s  
95th percentile per-packet one-way delay: 117.023 ms  
Loss rate: 1.97%  
-- Flow 1:  
Average throughput: 6.55 Mbit/s  
95th percentile per-packet one-way delay: 117.024 ms  
Loss rate: 1.54%  
-- Flow 2:  
Average throughput: 4.38 Mbit/s  
95th percentile per-packet one-way delay: 117.041 ms  
Loss rate: 2.30%  
-- Flow 3:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 116.983 ms  
Loss rate: 4.64%

Run 6: Report of LEDBAT — Data Link



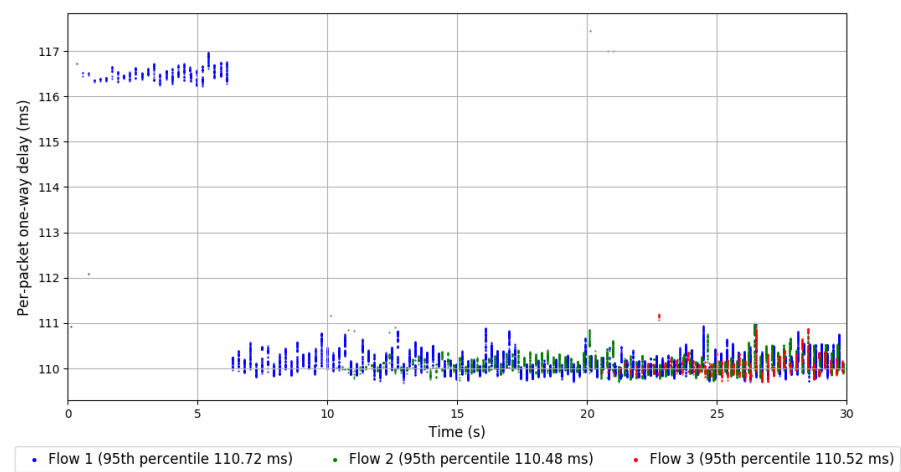
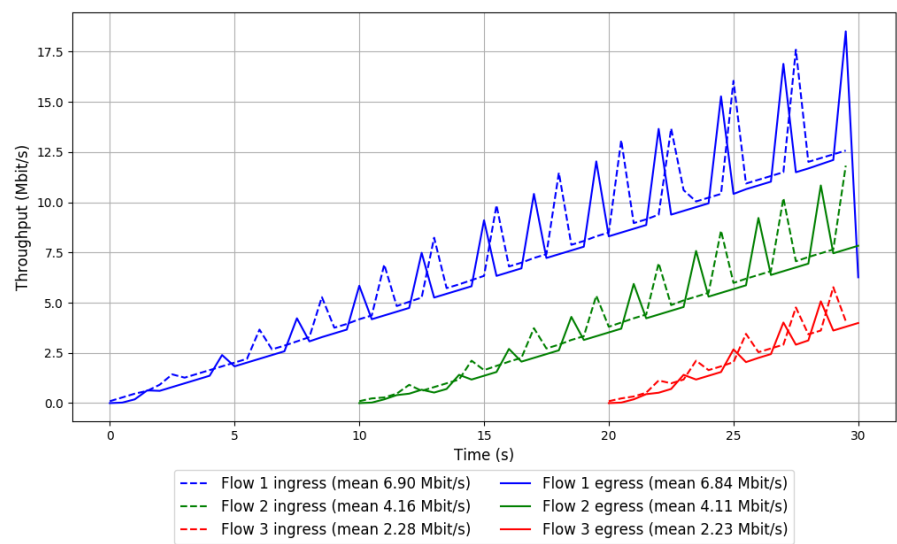
Run 7: Statistics of LEDBAT

Start at: 2018-05-24 18:22:14  
End at: 2018-05-24 18:22:44  
Local clock offset: 0.094 ms  
Remote clock offset: -0.229 ms

```
# Below is generated by plot.py at 2018-05-24 21:12:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.26 Mbit/s
95th percentile per-packet one-way delay: 110.615 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 110.719 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 110.485 ms
Loss rate: 2.40%
-- Flow 3:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 110.516 ms
Loss rate: 4.55%
```



Run 7: Report of LEDBAT — Data Link

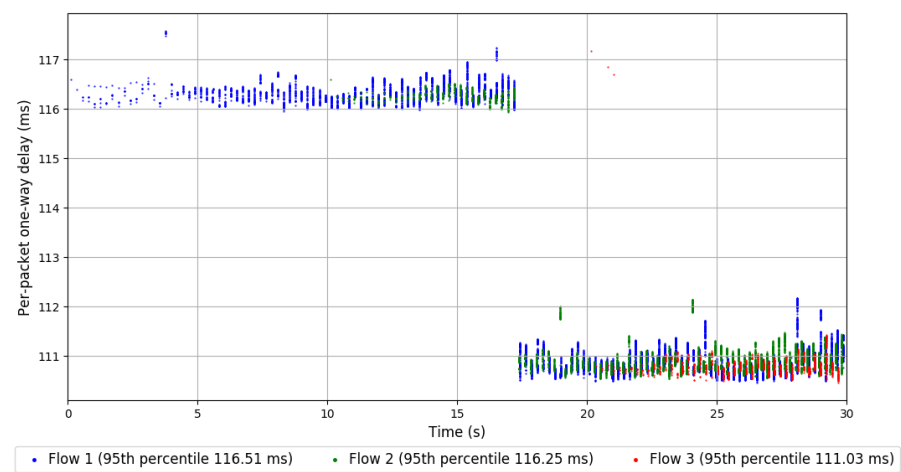
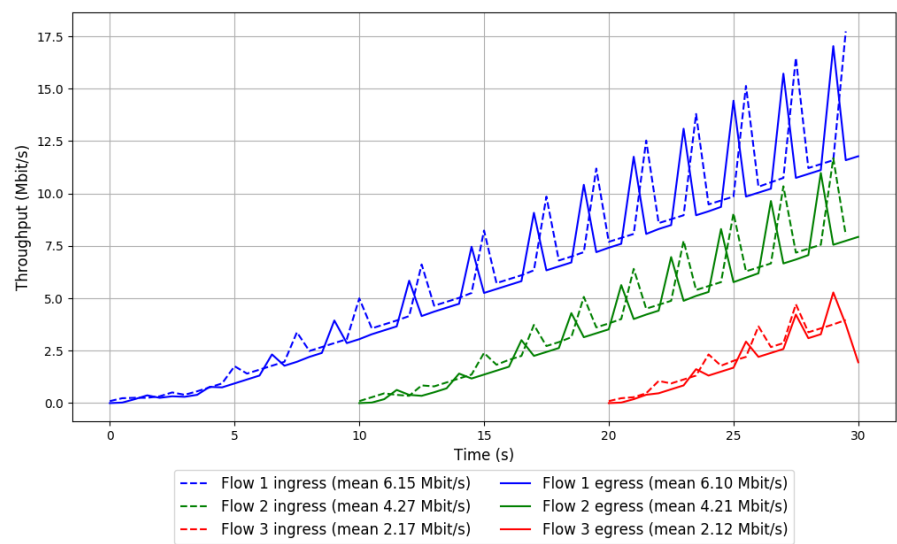


Run 8: Statistics of LEDBAT

Start at: 2018-05-24 18:46:23  
End at: 2018-05-24 18:46:53  
Local clock offset: -0.195 ms  
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2018-05-24 21:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 116.422 ms  
Loss rate: 2.07%  
-- Flow 1:  
Average throughput: 6.10 Mbit/s  
95th percentile per-packet one-way delay: 116.512 ms  
Loss rate: 1.62%  
-- Flow 2:  
Average throughput: 4.21 Mbit/s  
95th percentile per-packet one-way delay: 116.247 ms  
Loss rate: 2.38%  
-- Flow 3:  
Average throughput: 2.12 Mbit/s  
95th percentile per-packet one-way delay: 111.031 ms  
Loss rate: 4.76%

Run 8: Report of LEDBAT — Data Link

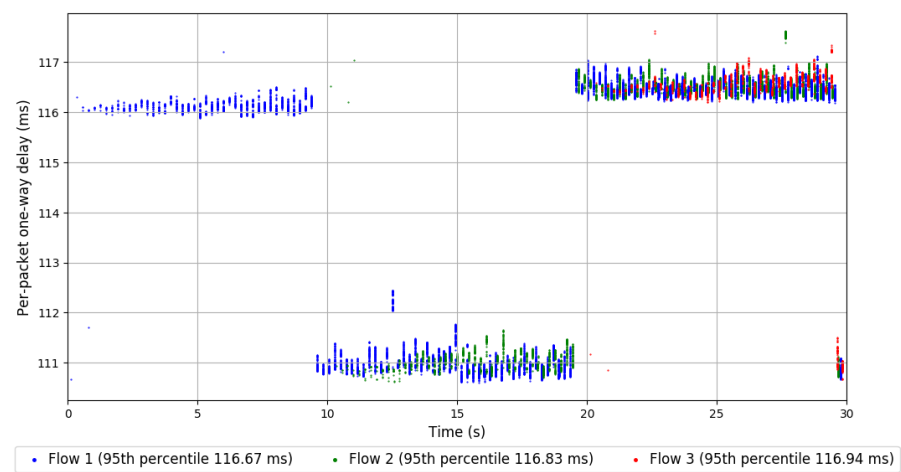
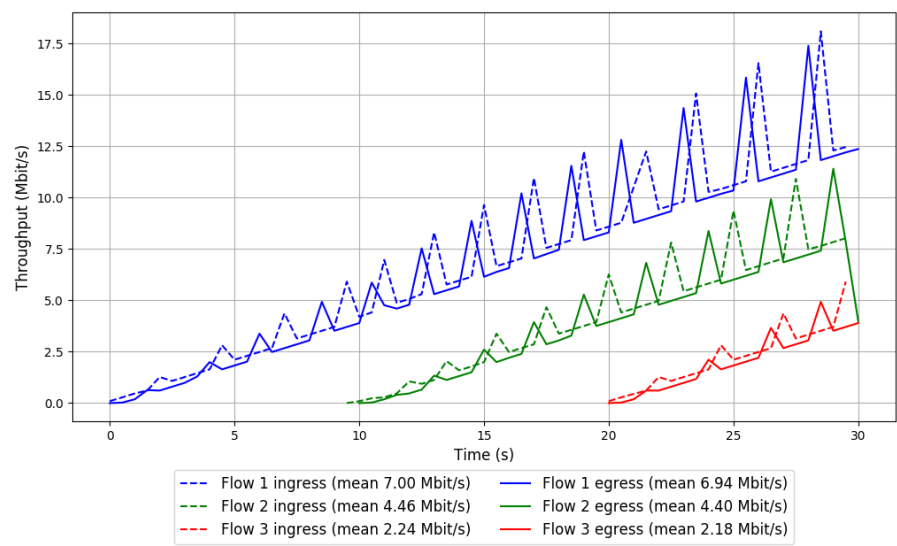


Run 9: Statistics of LEDBAT

Start at: 2018-05-24 19:10:01  
End at: 2018-05-24 19:10:31  
Local clock offset: 0.156 ms  
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-05-24 21:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.54 Mbit/s  
95th percentile per-packet one-way delay: 116.744 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 6.94 Mbit/s  
95th percentile per-packet one-way delay: 116.667 ms  
Loss rate: 1.50%  
-- Flow 2:  
Average throughput: 4.40 Mbit/s  
95th percentile per-packet one-way delay: 116.825 ms  
Loss rate: 2.29%  
-- Flow 3:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 116.940 ms  
Loss rate: 4.53%

Run 9: Report of LEDBAT — Data Link

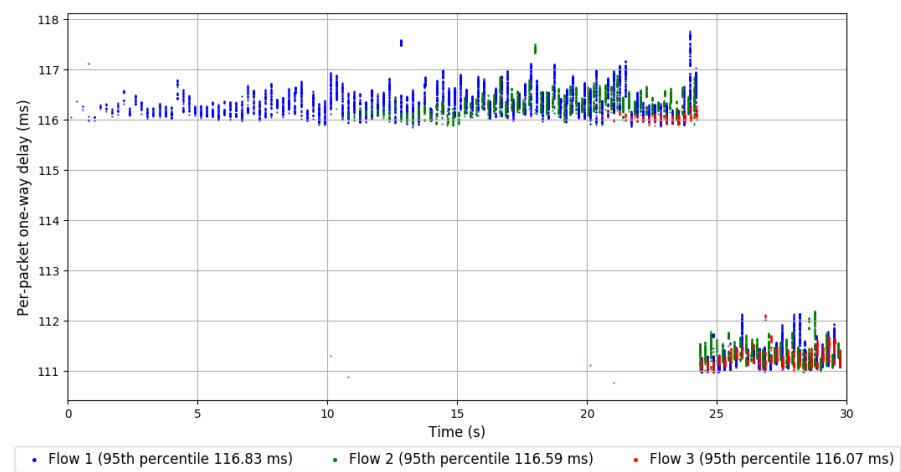
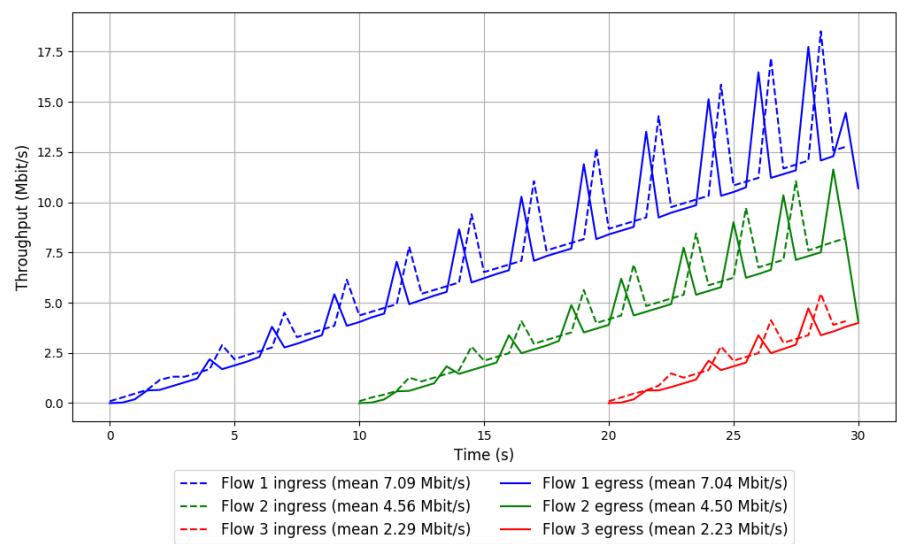


Run 10: Statistics of LEDBAT

Start at: 2018-05-24 19:33:16  
End at: 2018-05-24 19:33:46  
Local clock offset: 0.14 ms  
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2018-05-24 21:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.73 Mbit/s  
95th percentile per-packet one-way delay: 116.759 ms  
Loss rate: 1.94%  
-- Flow 1:  
Average throughput: 7.04 Mbit/s  
95th percentile per-packet one-way delay: 116.834 ms  
Loss rate: 1.51%  
-- Flow 2:  
Average throughput: 4.50 Mbit/s  
95th percentile per-packet one-way delay: 116.592 ms  
Loss rate: 2.29%  
-- Flow 3:  
Average throughput: 2.23 Mbit/s  
95th percentile per-packet one-way delay: 116.070 ms  
Loss rate: 4.59%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 16:19:52

End at: 2018-05-24 16:20:22

Local clock offset: 0.021 ms

Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2018-05-24 21:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 572.14 Mbit/s

95th percentile per-packet one-way delay: 225.052 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 560.69 Mbit/s

95th percentile per-packet one-way delay: 225.056 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 224.916 ms

Loss rate: 1.75%

-- Flow 3:

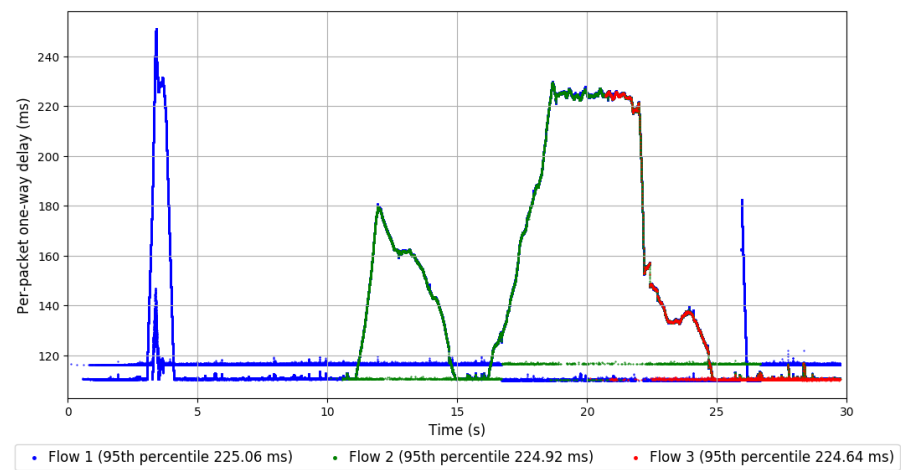
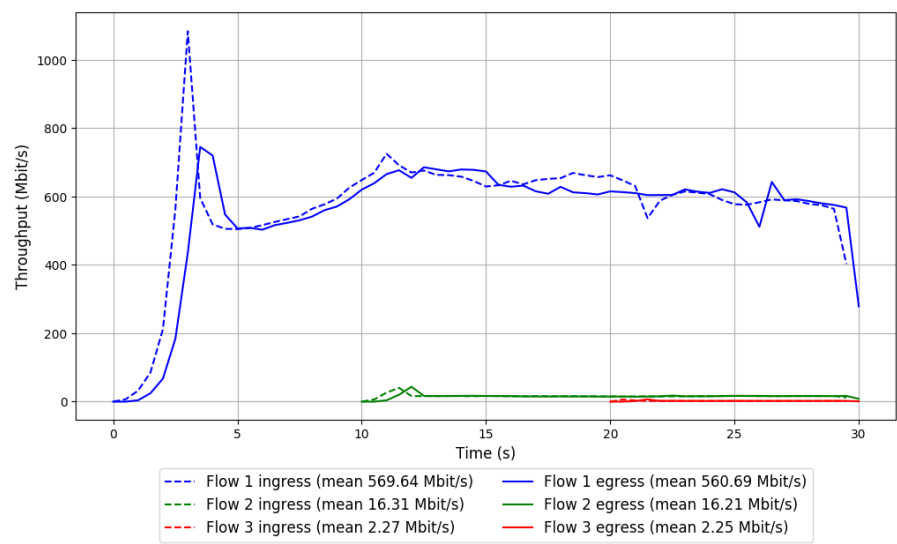
Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 224.644 ms

Loss rate: 3.09%



Run 1: Report of PCC-Allegro — Data Link

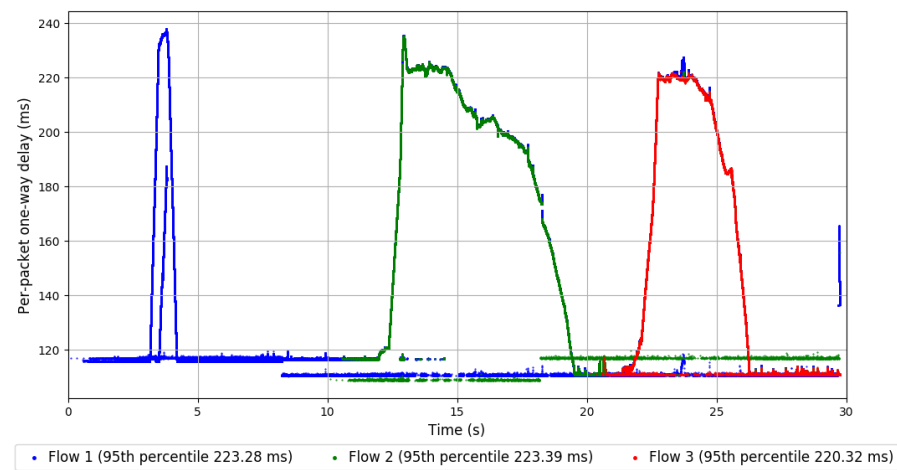
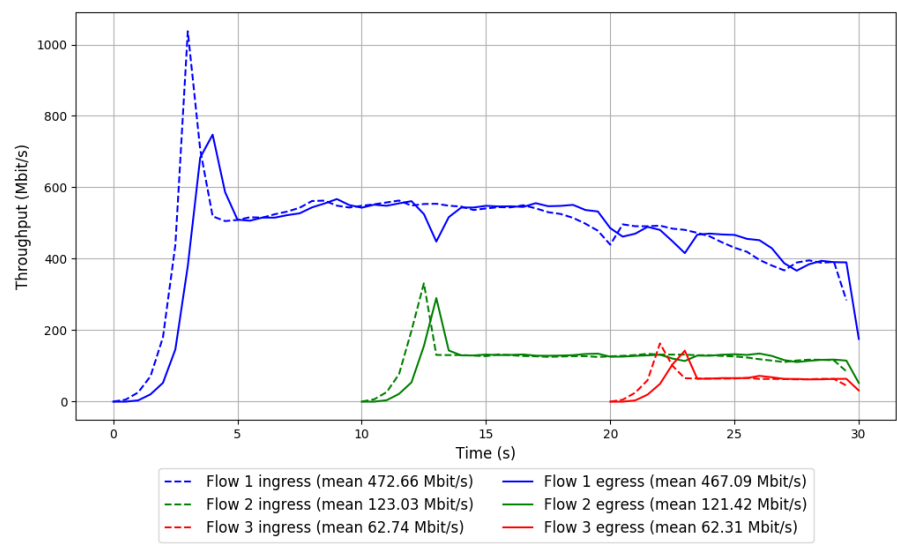


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 16:44:02  
End at: 2018-05-24 16:44:32  
Local clock offset: -0.018 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-05-24 21:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 567.45 Mbit/s  
95th percentile per-packet one-way delay: 223.244 ms  
Loss rate: 2.02%  
-- Flow 1:  
Average throughput: 467.09 Mbit/s  
95th percentile per-packet one-way delay: 223.277 ms  
Loss rate: 1.93%  
-- Flow 2:  
Average throughput: 121.42 Mbit/s  
95th percentile per-packet one-way delay: 223.389 ms  
Loss rate: 2.31%  
-- Flow 3:  
Average throughput: 62.31 Mbit/s  
95th percentile per-packet one-way delay: 220.319 ms  
Loss rate: 2.93%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 17:07:28

End at: 2018-05-24 17:07:58

Local clock offset: -0.071 ms

Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-05-24 21:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 571.23 Mbit/s

95th percentile per-packet one-way delay: 225.353 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 479.43 Mbit/s

95th percentile per-packet one-way delay: 224.598 ms

Loss rate: 2.25%

-- Flow 2:

Average throughput: 122.84 Mbit/s

95th percentile per-packet one-way delay: 226.499 ms

Loss rate: 2.79%

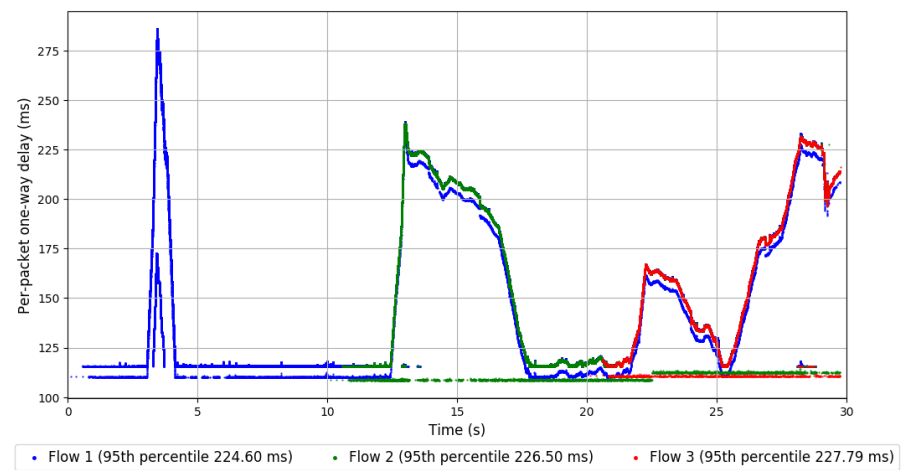
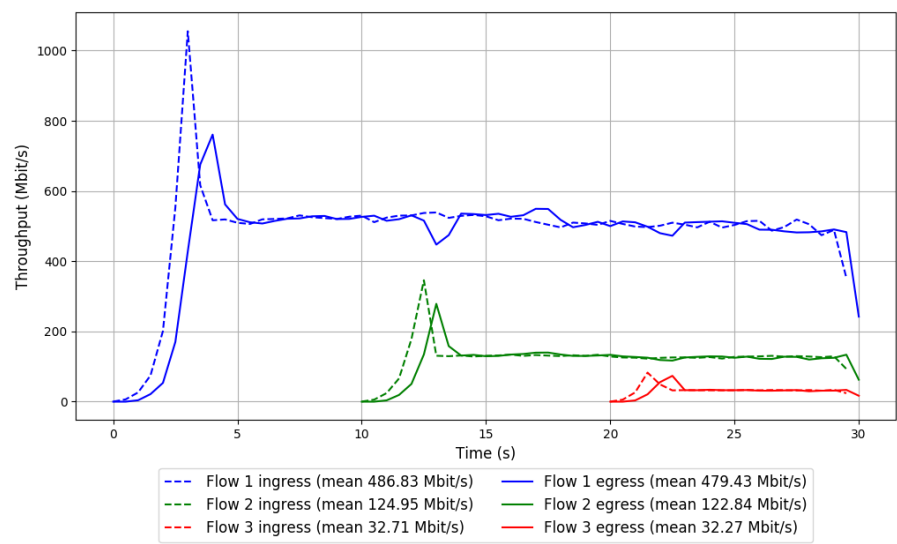
-- Flow 3:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 227.794 ms

Loss rate: 3.56%

Run 3: Report of PCC-Allegro — Data Link

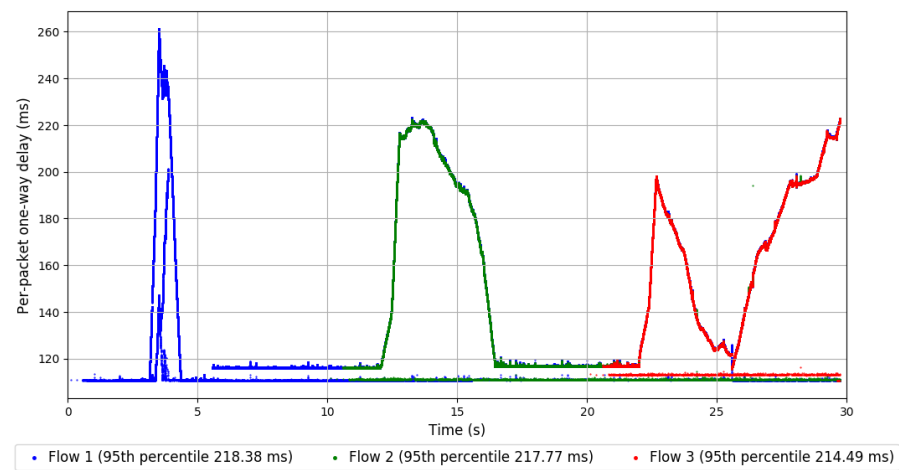
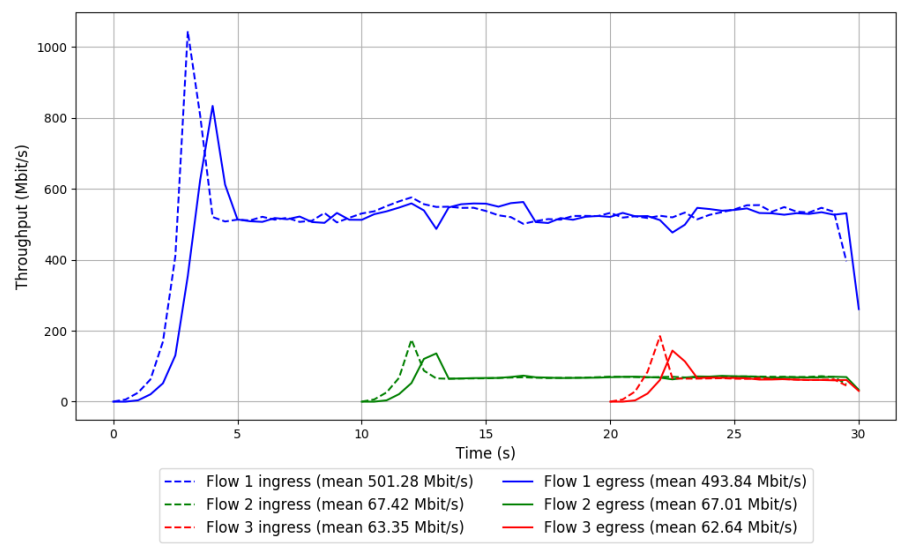


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 17:30:55  
End at: 2018-05-24 17:31:25  
Local clock offset: 0.08 ms  
Remote clock offset: -0.153 ms

```
# Below is generated by plot.py at 2018-05-24 21:12:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 558.54 Mbit/s
95th percentile per-packet one-way delay: 218.052 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 493.84 Mbit/s
95th percentile per-packet one-way delay: 218.385 ms
Loss rate: 2.22%
-- Flow 2:
Average throughput: 67.01 Mbit/s
95th percentile per-packet one-way delay: 217.772 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 214.485 ms
Loss rate: 3.37%
```

Run 4: Report of PCC-Allegro — Data Link



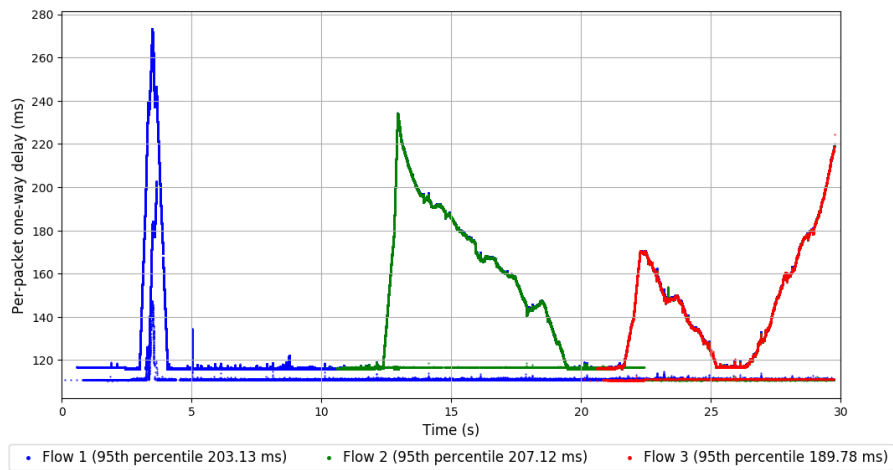
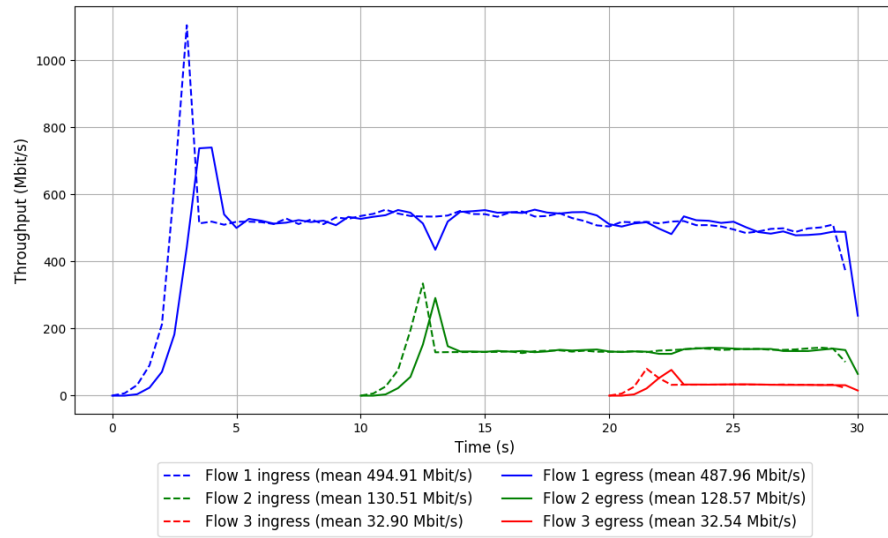
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 17:54:38  
End at: 2018-05-24 17:55:08  
Local clock offset: 0.1 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-05-24 21:12:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 583.55 Mbit/s  
95th percentile per-packet one-way delay: 203.533 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 487.96 Mbit/s  
95th percentile per-packet one-way delay: 203.129 ms  
Loss rate: 2.14%  
-- Flow 2:  
Average throughput: 128.57 Mbit/s  
95th percentile per-packet one-way delay: 207.120 ms  
Loss rate: 2.61%  
-- Flow 3:  
Average throughput: 32.54 Mbit/s  
95th percentile per-packet one-way delay: 189.780 ms  
Loss rate: 3.27%



## Run 5: Report of PCC-Allegro — Data Link

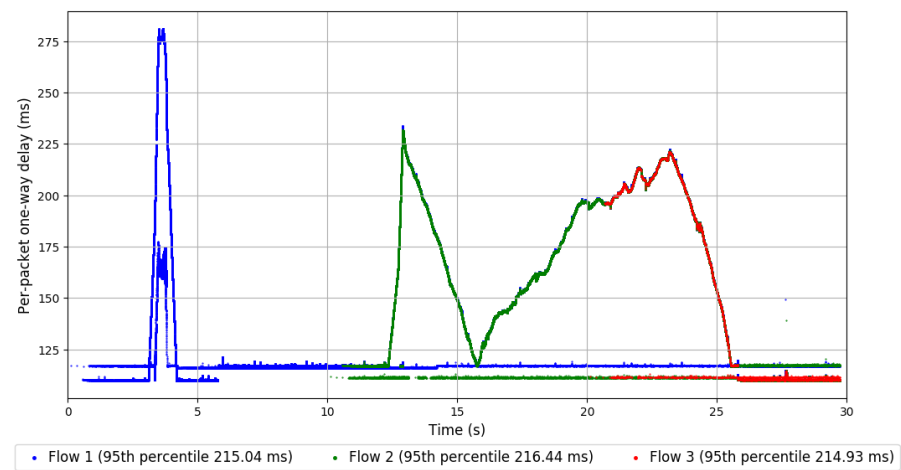
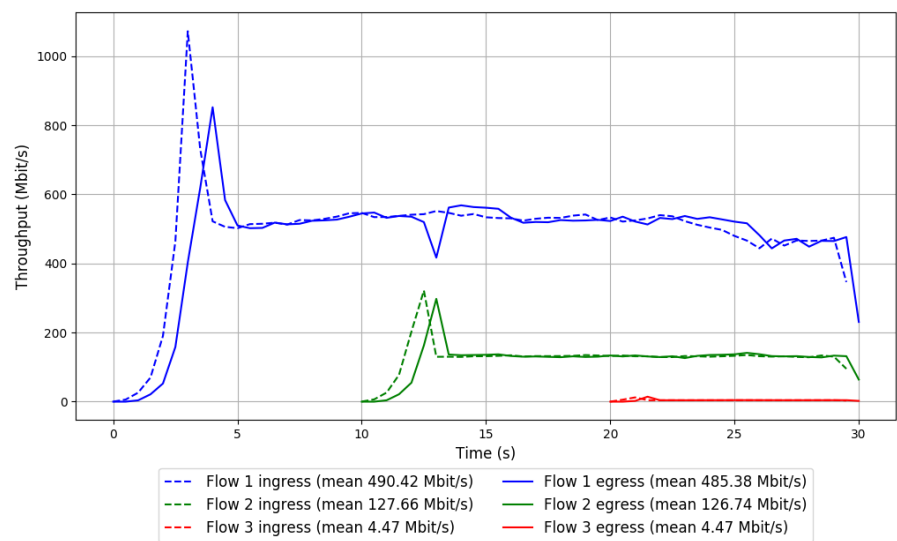


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 18:17:55  
End at: 2018-05-24 18:18:25  
Local clock offset: 0.315 ms  
Remote clock offset: -0.249 ms

```
# Below is generated by plot.py at 2018-05-24 21:12:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 570.78 Mbit/s
95th percentile per-packet one-way delay: 215.174 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 485.38 Mbit/s
95th percentile per-packet one-way delay: 215.036 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 126.74 Mbit/s
95th percentile per-packet one-way delay: 216.445 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 214.933 ms
Loss rate: 2.28%
```

Run 6: Report of PCC-Allegro — Data Link

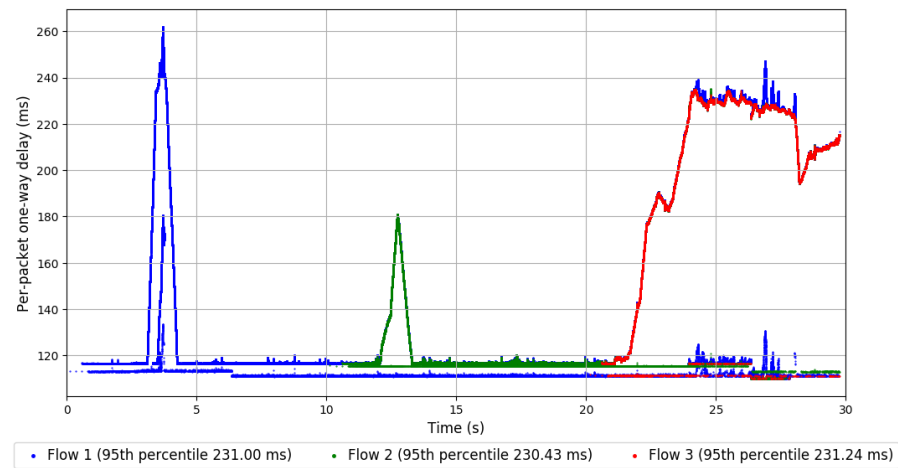
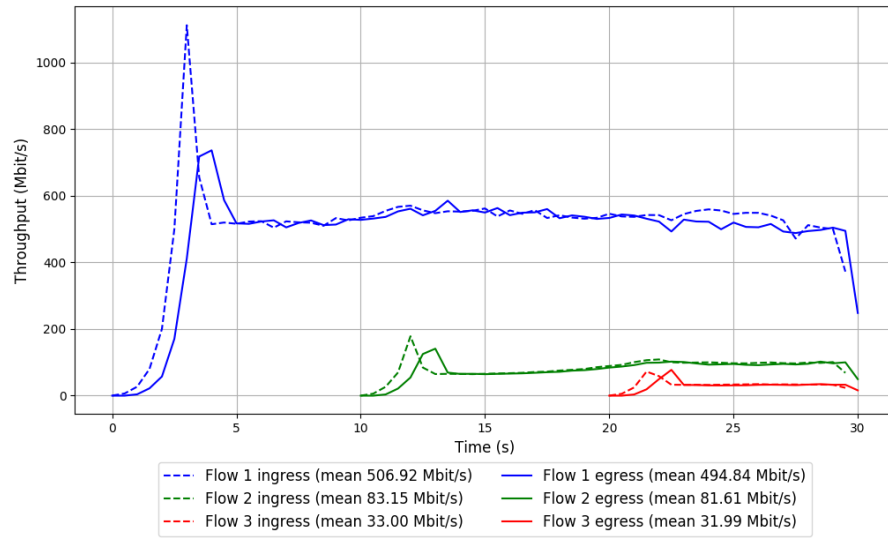


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 18:41:44  
End at: 2018-05-24 18:42:14  
Local clock offset: -0.052 ms  
Remote clock offset: -0.584 ms

```
# Below is generated by plot.py at 2018-05-24 21:12:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.26 Mbit/s
95th percentile per-packet one-way delay: 230.882 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 494.84 Mbit/s
95th percentile per-packet one-way delay: 230.997 ms
Loss rate: 3.11%
-- Flow 2:
Average throughput: 81.61 Mbit/s
95th percentile per-packet one-way delay: 230.426 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 31.99 Mbit/s
95th percentile per-packet one-way delay: 231.236 ms
Loss rate: 5.26%
```

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

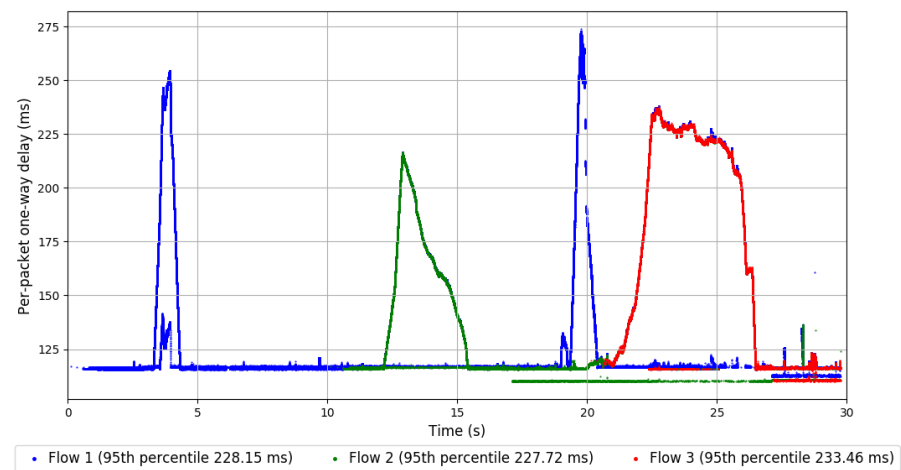
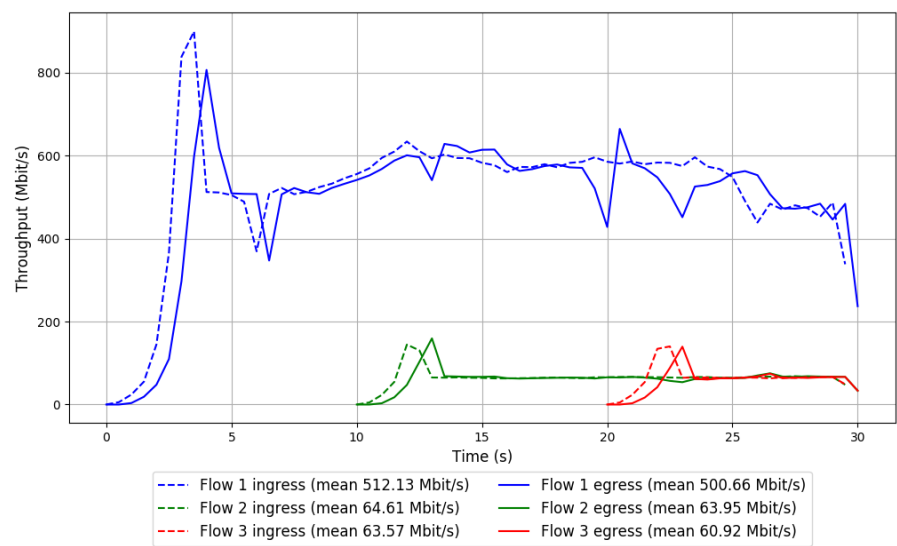


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 19:05:43  
End at: 2018-05-24 19:06:13  
Local clock offset: -0.029 ms  
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-05-24 21:13:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 562.61 Mbit/s  
95th percentile per-packet one-way delay: 228.292 ms  
Loss rate: 3.04%  
-- Flow 1:  
Average throughput: 500.66 Mbit/s  
95th percentile per-packet one-way delay: 228.154 ms  
Loss rate: 2.98%  
-- Flow 2:  
Average throughput: 63.95 Mbit/s  
95th percentile per-packet one-way delay: 227.715 ms  
Loss rate: 2.10%  
-- Flow 3:  
Average throughput: 60.92 Mbit/s  
95th percentile per-packet one-way delay: 233.458 ms  
Loss rate: 6.41%

Run 8: Report of PCC-Allegro — Data Link



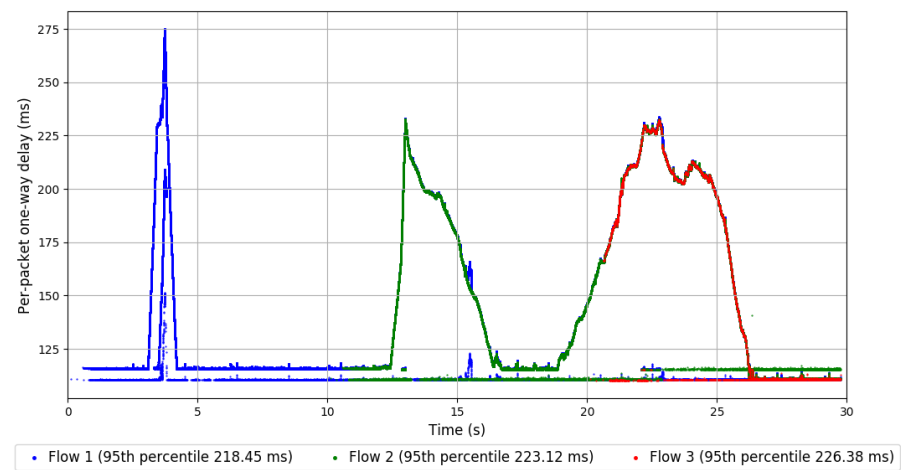
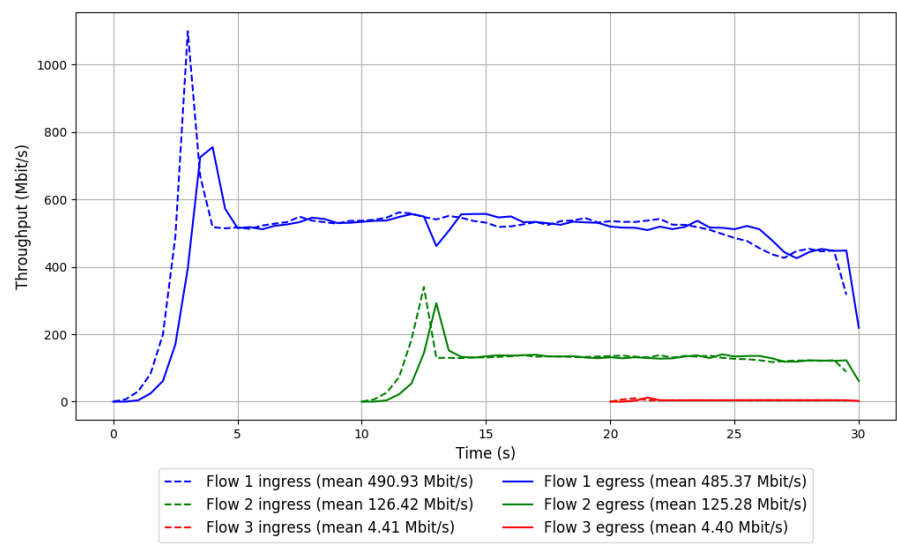
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 19:28:57  
End at: 2018-05-24 19:29:27  
Local clock offset: 0.045 ms  
Remote clock offset: -0.153 ms

```
# Below is generated by plot.py at 2018-05-24 21:13:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 569.74 Mbit/s
95th percentile per-packet one-way delay: 219.096 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 485.37 Mbit/s
95th percentile per-packet one-way delay: 218.453 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 125.28 Mbit/s
95th percentile per-packet one-way delay: 223.117 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 226.384 ms
Loss rate: 2.43%
```



Run 9: Report of PCC-Allegro — Data Link

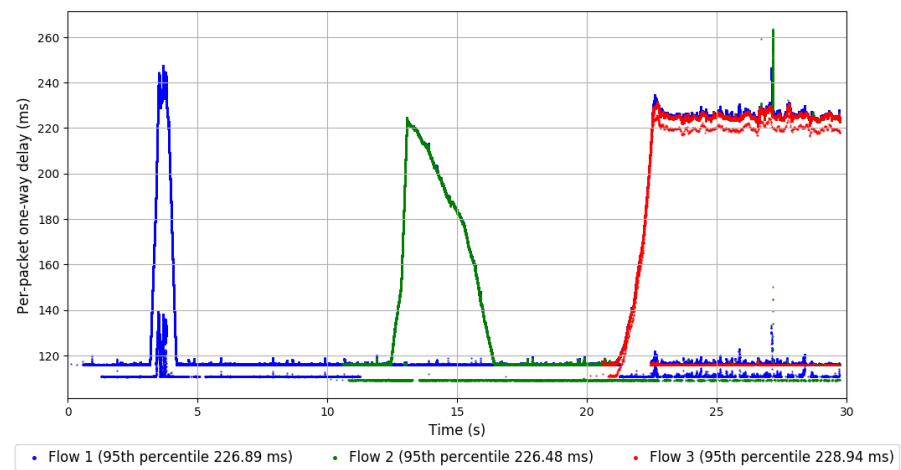
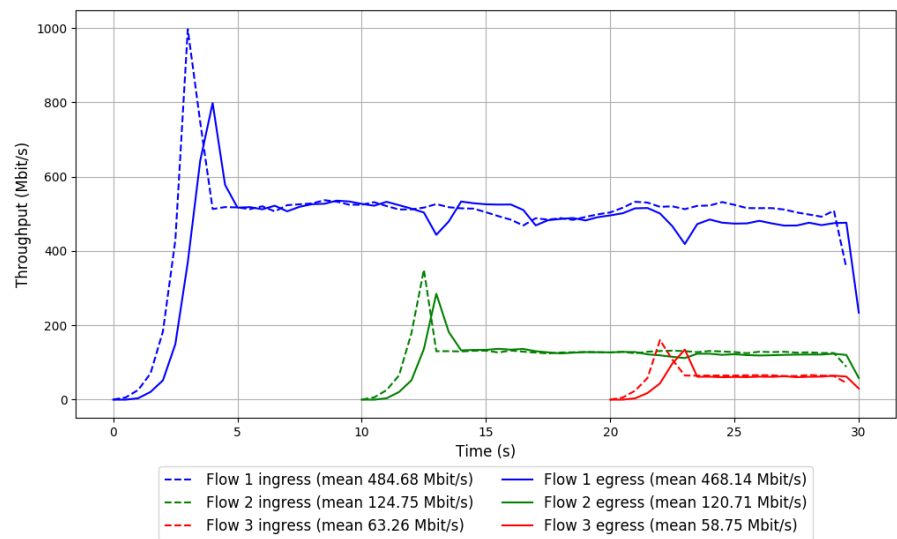


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 19:52:49  
End at: 2018-05-24 19:53:19  
Local clock offset: 0.168 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-05-24 21:13:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 567.13 Mbit/s  
95th percentile per-packet one-way delay: 226.912 ms  
Loss rate: 4.35%  
-- Flow 1:  
Average throughput: 468.14 Mbit/s  
95th percentile per-packet one-way delay: 226.887 ms  
Loss rate: 4.15%  
-- Flow 2:  
Average throughput: 120.71 Mbit/s  
95th percentile per-packet one-way delay: 226.477 ms  
Loss rate: 4.31%  
-- Flow 3:  
Average throughput: 58.75 Mbit/s  
95th percentile per-packet one-way delay: 228.936 ms  
Loss rate: 9.22%

Run 10: Report of PCC-Allegro — Data Link

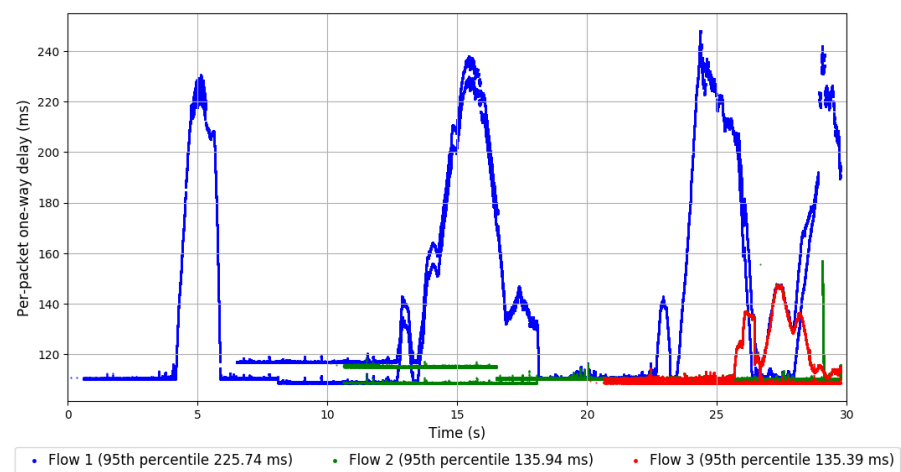
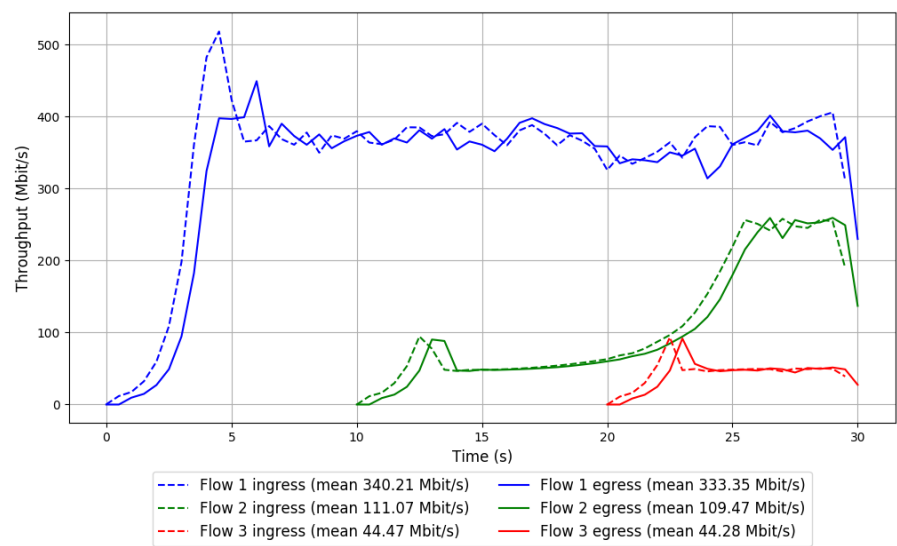


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-24 16:02:52
End at: 2018-05-24 16:03:22
Local clock offset: -0.013 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2018-05-24 21:18:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.26 Mbit/s
95th percentile per-packet one-way delay: 223.969 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 333.35 Mbit/s
95th percentile per-packet one-way delay: 225.743 ms
Loss rate: 2.75%
-- Flow 2:
Average throughput: 109.47 Mbit/s
95th percentile per-packet one-way delay: 135.945 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 44.28 Mbit/s
95th percentile per-packet one-way delay: 135.393 ms
Loss rate: 2.67%
```

Run 1: Report of PCC-Expr — Data Link

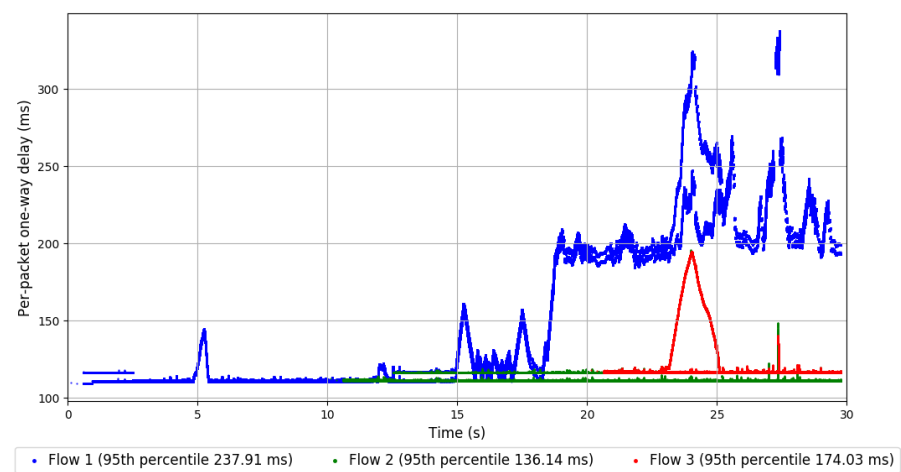
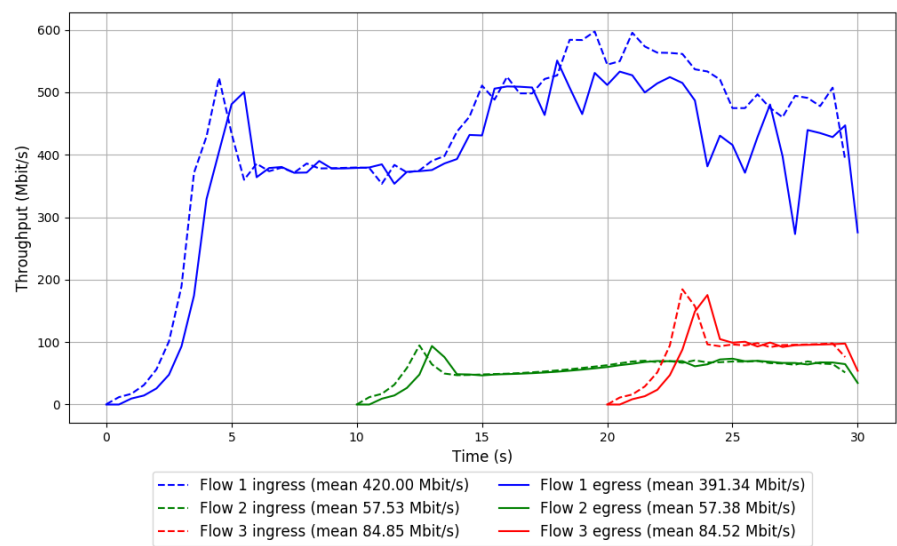


Run 2: Statistics of PCC-Expr

Start at: 2018-05-24 16:26:58  
End at: 2018-05-24 16:27:28  
Local clock offset: 0.082 ms  
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-05-24 21:22:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 456.79 Mbit/s  
95th percentile per-packet one-way delay: 233.808 ms  
Loss rate: 6.75%  
-- Flow 1:  
Average throughput: 391.34 Mbit/s  
95th percentile per-packet one-way delay: 237.914 ms  
Loss rate: 7.51%  
-- Flow 2:  
Average throughput: 57.38 Mbit/s  
95th percentile per-packet one-way delay: 136.139 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 84.52 Mbit/s  
95th percentile per-packet one-way delay: 174.028 ms  
Loss rate: 2.68%

Run 2: Report of PCC-Expr — Data Link



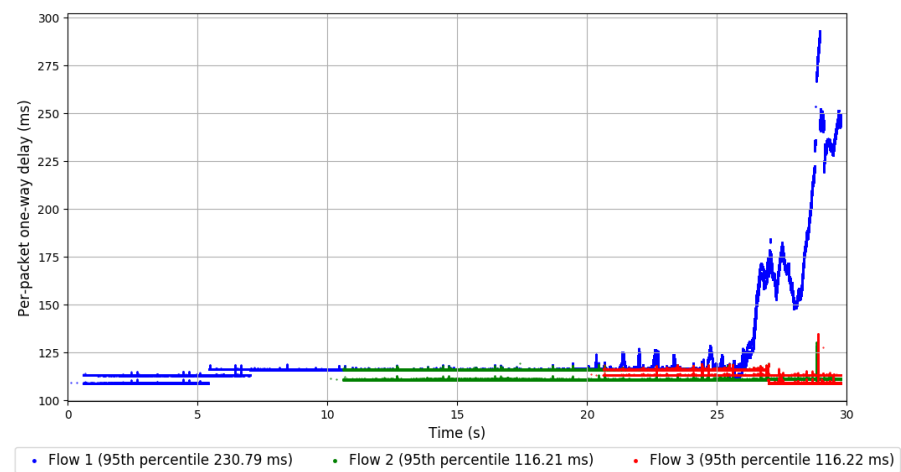
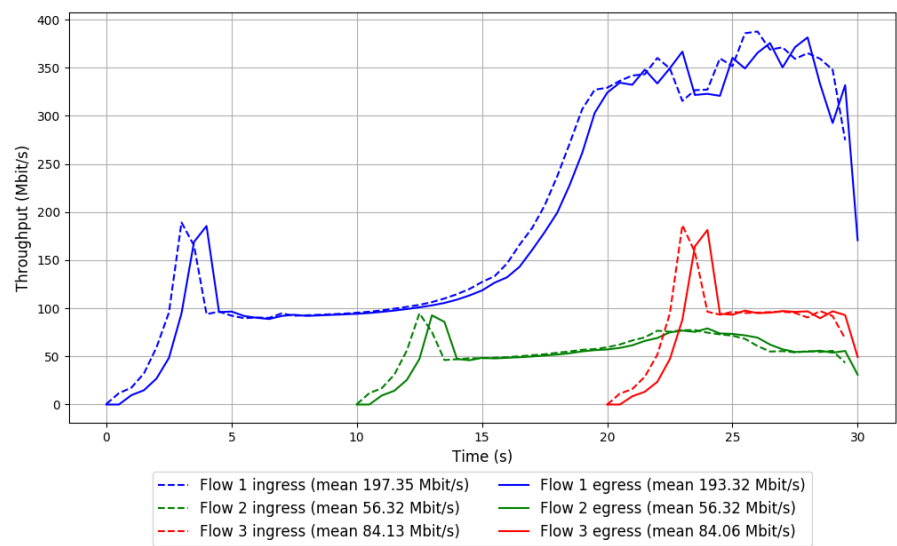
Run 3: Statistics of PCC-Expr

Start at: 2018-05-24 16:50:53  
End at: 2018-05-24 16:51:23  
Local clock offset: -0.188 ms  
Remote clock offset: -0.553 ms

# Below is generated by plot.py at 2018-05-24 21:22:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 257.95 Mbit/s  
95th percentile per-packet one-way delay: 194.118 ms  
Loss rate: 2.48%  
-- Flow 1:  
Average throughput: 193.32 Mbit/s  
95th percentile per-packet one-way delay: 230.791 ms  
Loss rate: 2.76%  
-- Flow 2:  
Average throughput: 56.32 Mbit/s  
95th percentile per-packet one-way delay: 116.210 ms  
Loss rate: 1.11%  
-- Flow 3:  
Average throughput: 84.06 Mbit/s  
95th percentile per-packet one-way delay: 116.223 ms  
Loss rate: 2.34%



Run 3: Report of PCC-Expr — Data Link

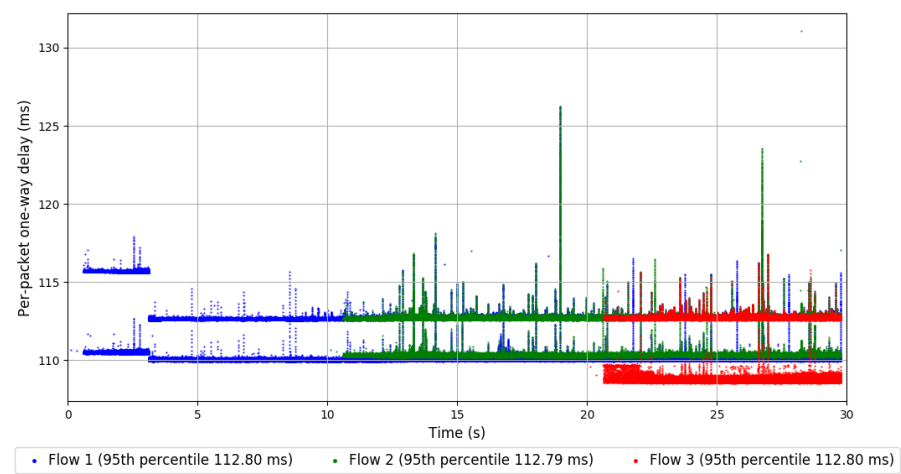
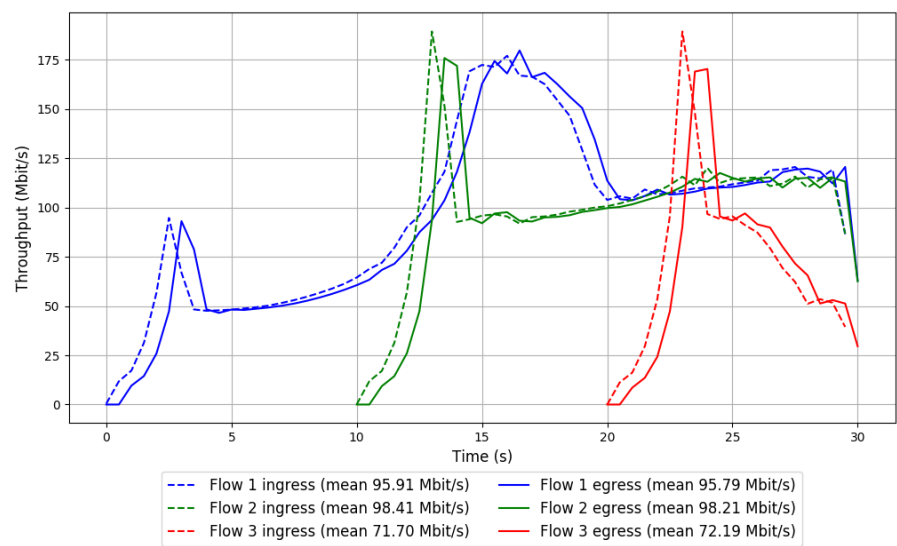


Run 4: Statistics of PCC-Expr

Start at: 2018-05-24 17:14:17  
End at: 2018-05-24 17:14:47  
Local clock offset: -0.225 ms  
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-05-24 21:22:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 184.32 Mbit/s  
95th percentile per-packet one-way delay: 112.795 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 95.79 Mbit/s  
95th percentile per-packet one-way delay: 112.800 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 98.21 Mbit/s  
95th percentile per-packet one-way delay: 112.788 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 72.19 Mbit/s  
95th percentile per-packet one-way delay: 112.802 ms  
Loss rate: 1.56%

Run 4: Report of PCC-Expr — Data Link

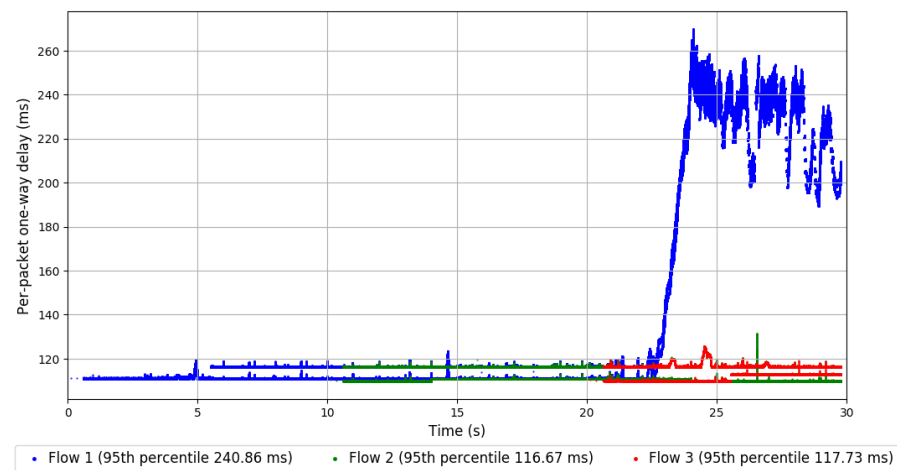
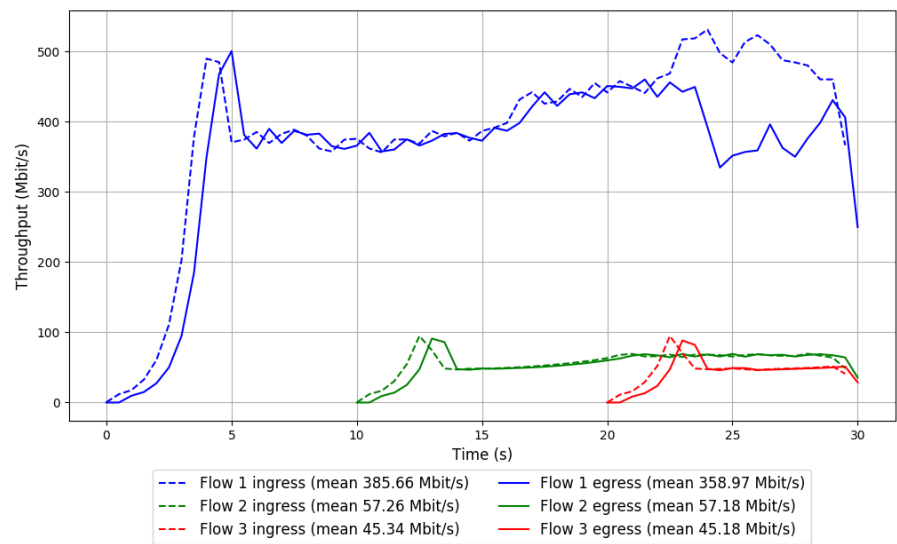


Run 5: Statistics of PCC-Expr

Start at: 2018-05-24 17:37:45  
End at: 2018-05-24 17:38:15  
Local clock offset: -0.109 ms  
Remote clock offset: -0.553 ms

# Below is generated by plot.py at 2018-05-24 21:26:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.54 Mbit/s  
95th percentile per-packet one-way delay: 239.749 ms  
Loss rate: 6.89%  
-- Flow 1:  
Average throughput: 358.97 Mbit/s  
95th percentile per-packet one-way delay: 240.858 ms  
Loss rate: 7.61%  
-- Flow 2:  
Average throughput: 57.18 Mbit/s  
95th percentile per-packet one-way delay: 116.674 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 45.18 Mbit/s  
95th percentile per-packet one-way delay: 117.735 ms  
Loss rate: 2.69%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-24 18:01:19

End at: 2018-05-24 18:01:49

Local clock offset: 0.105 ms

Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2018-05-24 21:26:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 118.06 Mbit/s

95th percentile per-packet one-way delay: 116.414 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 53.38 Mbit/s

95th percentile per-packet one-way delay: 116.406 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 116.429 ms

Loss rate: 1.28%

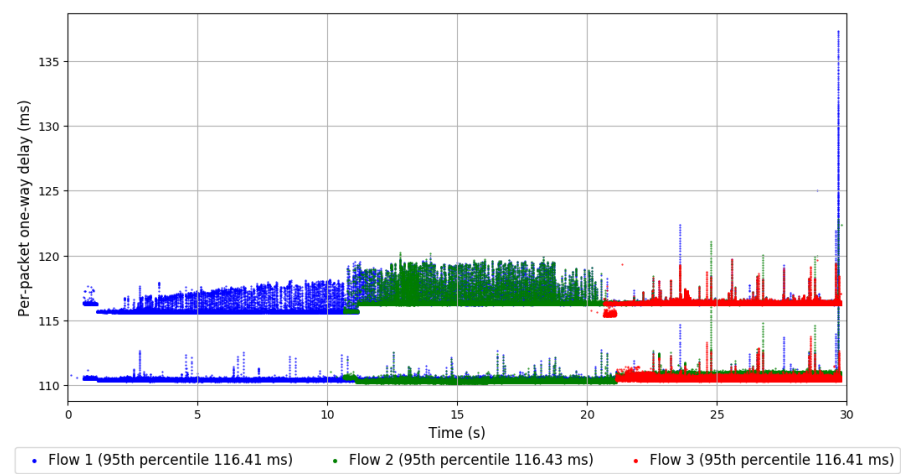
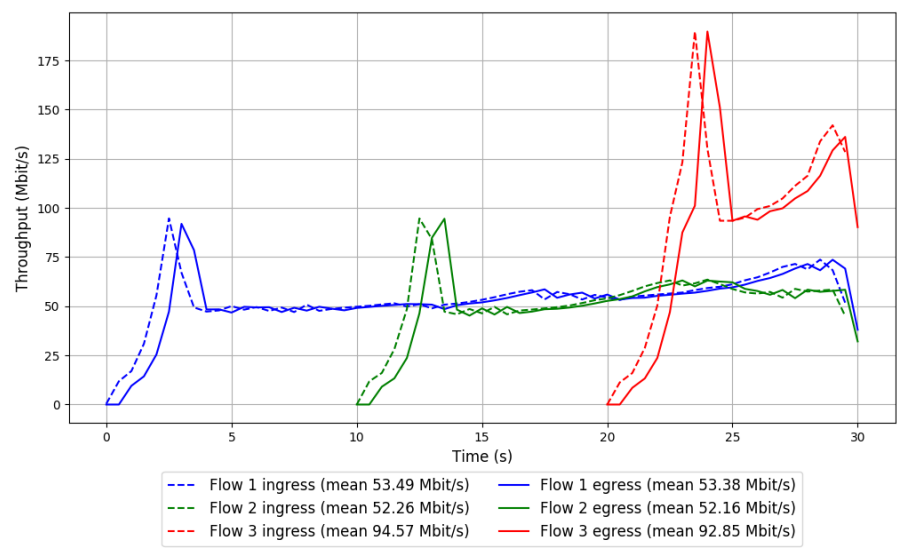
-- Flow 3:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 116.412 ms

Loss rate: 4.06%

Run 6: Report of PCC-Expr — Data Link



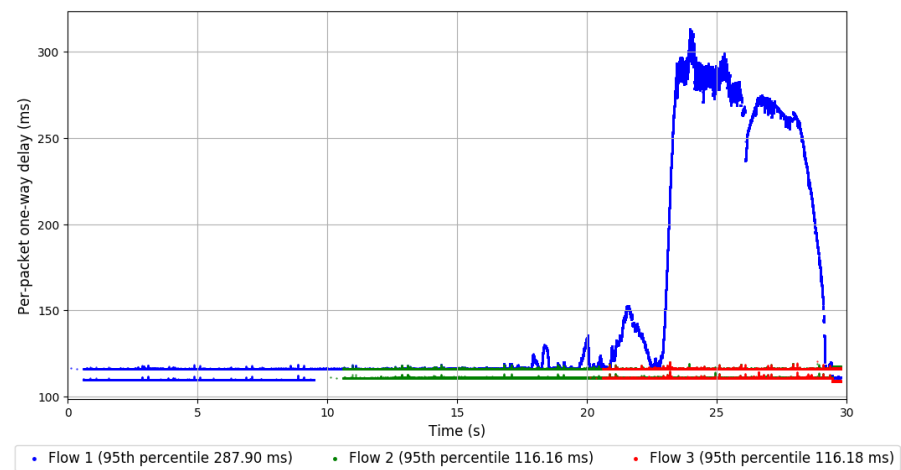
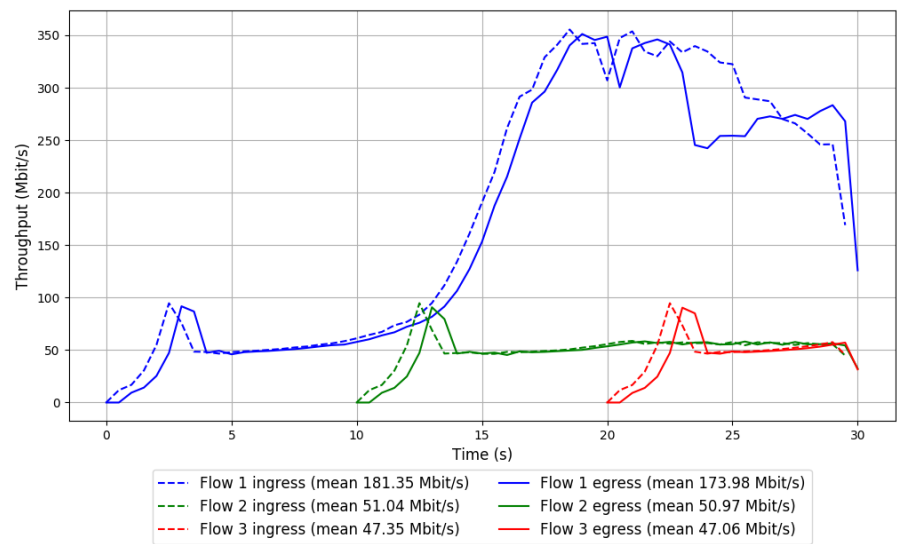
Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 18:24:41  
End at: 2018-05-24 18:25:11  
Local clock offset: -0.043 ms  
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2018-05-24 21:26:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 223.06 Mbit/s  
95th percentile per-packet one-way delay: 285.554 ms  
Loss rate: 4.17%  
-- Flow 1:  
Average throughput: 173.98 Mbit/s  
95th percentile per-packet one-way delay: 287.900 ms  
Loss rate: 4.81%  
-- Flow 2:  
Average throughput: 50.97 Mbit/s  
95th percentile per-packet one-way delay: 116.163 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 47.06 Mbit/s  
95th percentile per-packet one-way delay: 116.180 ms  
Loss rate: 2.89%



Run 7: Report of PCC-Expr — Data Link

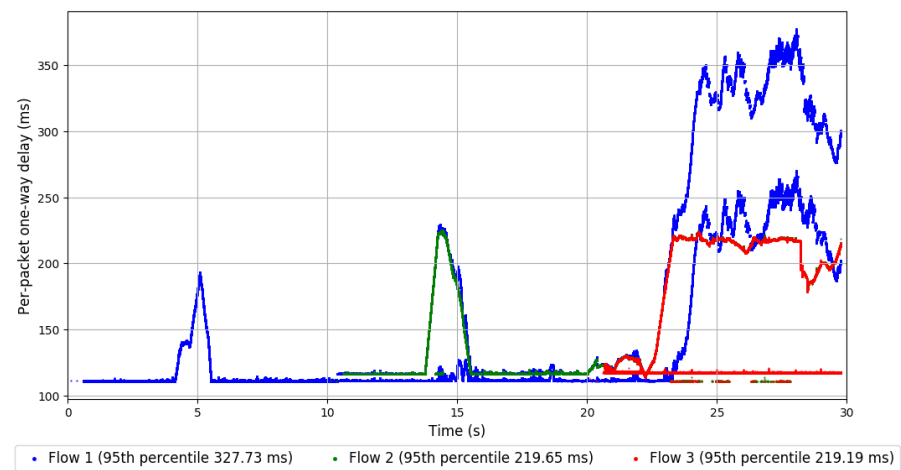
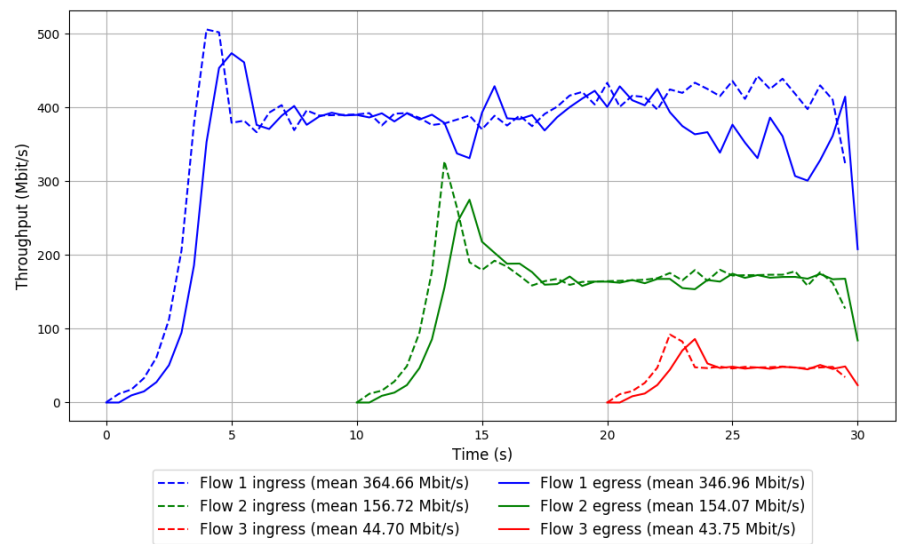


Run 8: Statistics of PCC-Expr

Start at: 2018-05-24 18:48:50  
End at: 2018-05-24 18:49:20  
Local clock offset: -0.21 ms  
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-05-24 21:28:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 463.24 Mbit/s  
95th percentile per-packet one-way delay: 318.428 ms  
Loss rate: 4.92%  
-- Flow 1:  
Average throughput: 346.96 Mbit/s  
95th percentile per-packet one-way delay: 327.728 ms  
Loss rate: 5.56%  
-- Flow 2:  
Average throughput: 154.07 Mbit/s  
95th percentile per-packet one-way delay: 219.645 ms  
Loss rate: 2.77%  
-- Flow 3:  
Average throughput: 43.75 Mbit/s  
95th percentile per-packet one-way delay: 219.190 ms  
Loss rate: 4.35%

Run 8: Report of PCC-Expr — Data Link

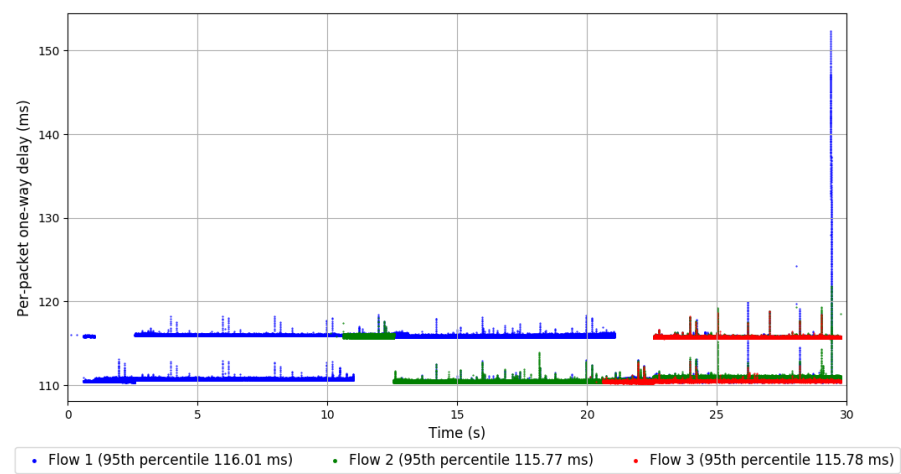
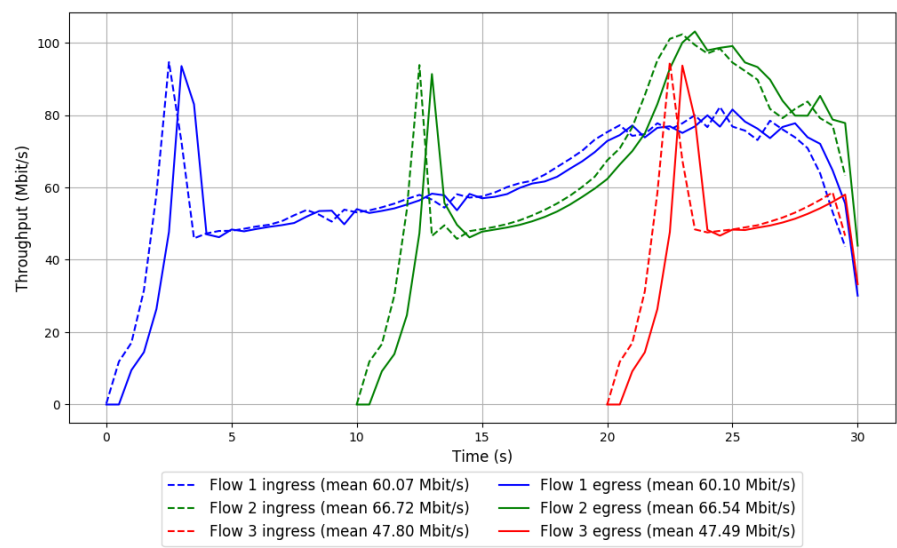


Run 9: Statistics of PCC-Expr

Start at: 2018-05-24 19:12:28  
End at: 2018-05-24 19:12:58  
Local clock offset: -0.073 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-05-24 21:28:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 119.62 Mbit/s  
95th percentile per-packet one-way delay: 115.985 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 60.10 Mbit/s  
95th percentile per-packet one-way delay: 116.010 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 66.54 Mbit/s  
95th percentile per-packet one-way delay: 115.773 ms  
Loss rate: 1.40%  
-- Flow 3:  
Average throughput: 47.49 Mbit/s  
95th percentile per-packet one-way delay: 115.775 ms  
Loss rate: 2.90%

Run 9: Report of PCC-Expr — Data Link

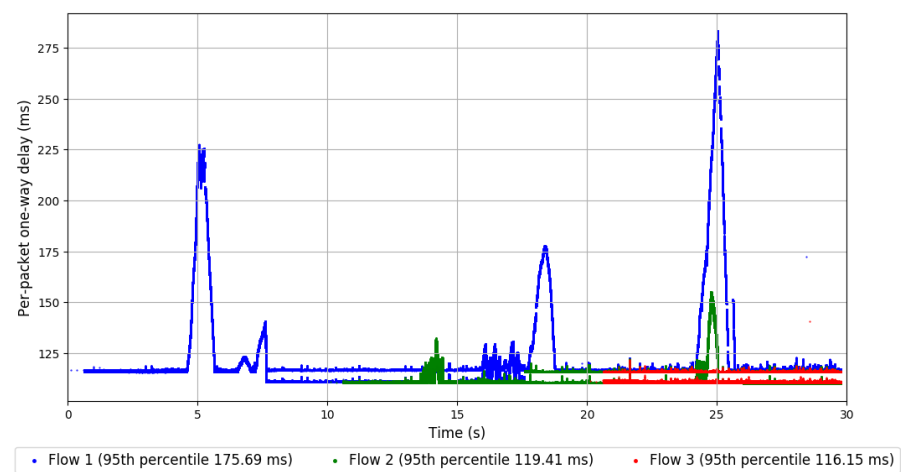
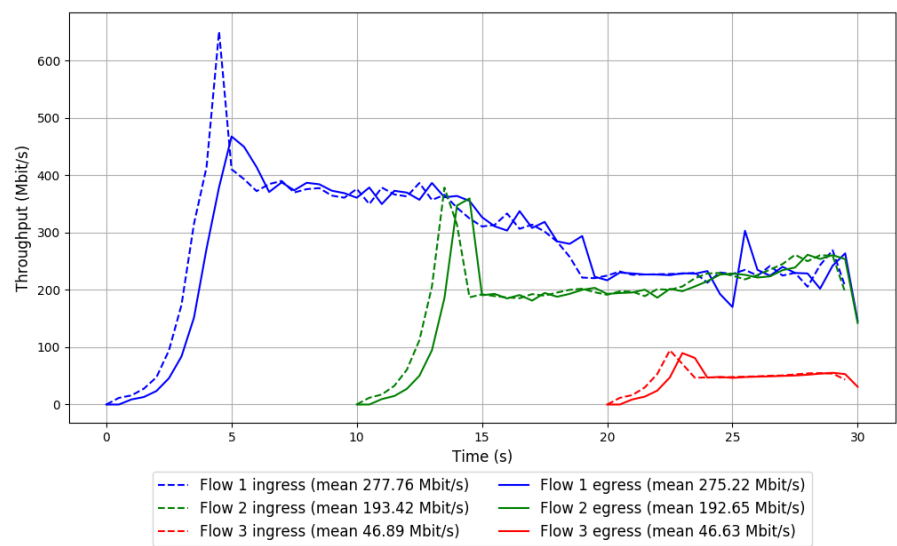


Run 10: Statistics of PCC-Expr

Start at: 2018-05-24 19:35:43  
End at: 2018-05-24 19:36:13  
Local clock offset: -0.253 ms  
Remote clock offset: -0.554 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 418.05 Mbit/s  
95th percentile per-packet one-way delay: 160.546 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 275.22 Mbit/s  
95th percentile per-packet one-way delay: 175.695 ms  
Loss rate: 1.67%  
-- Flow 2:  
Average throughput: 192.65 Mbit/s  
95th percentile per-packet one-way delay: 119.412 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 46.63 Mbit/s  
95th percentile per-packet one-way delay: 116.149 ms  
Loss rate: 2.78%

Run 10: Report of PCC-Expr — Data Link



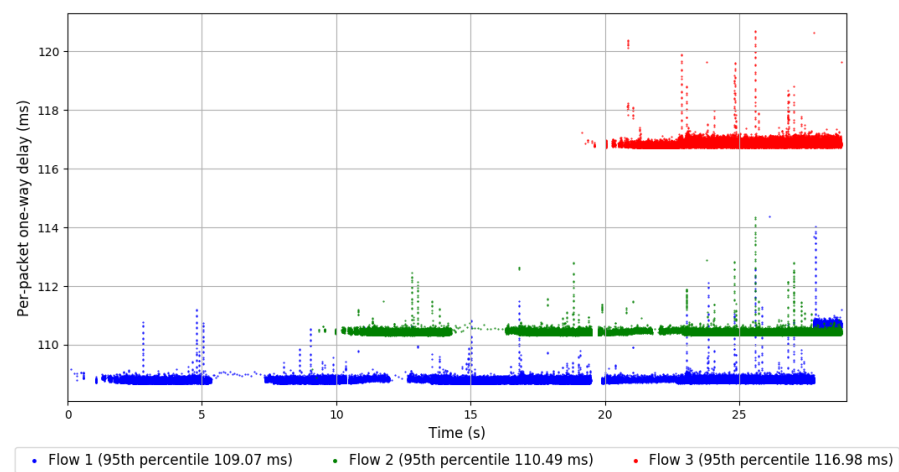
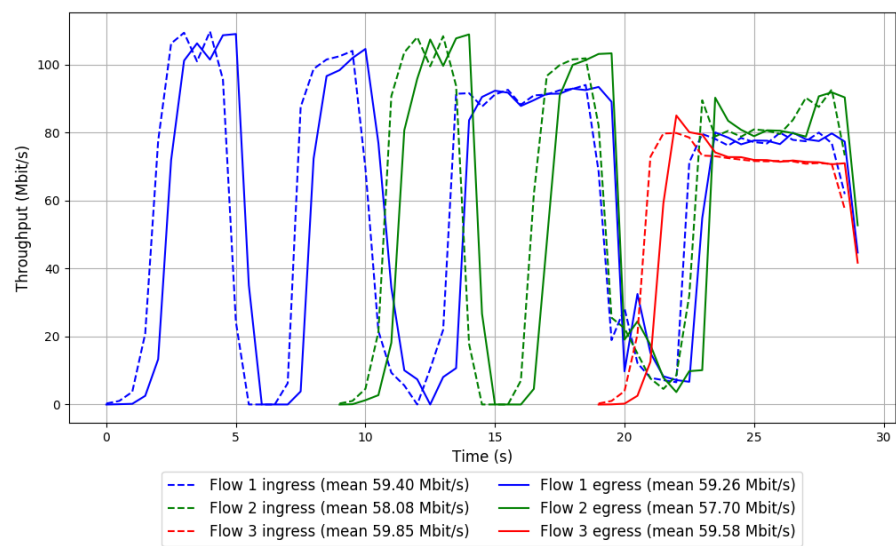
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 16:11:30  
End at: 2018-05-24 16:12:00  
Local clock offset: -0.049 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 118.92 Mbit/s  
95th percentile per-packet one-way delay: 116.854 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 59.26 Mbit/s  
95th percentile per-packet one-way delay: 109.071 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 57.70 Mbit/s  
95th percentile per-packet one-way delay: 110.493 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 59.58 Mbit/s  
95th percentile per-packet one-way delay: 116.983 ms  
Loss rate: 2.73%



Run 1: Report of QUIC Cubic — Data Link

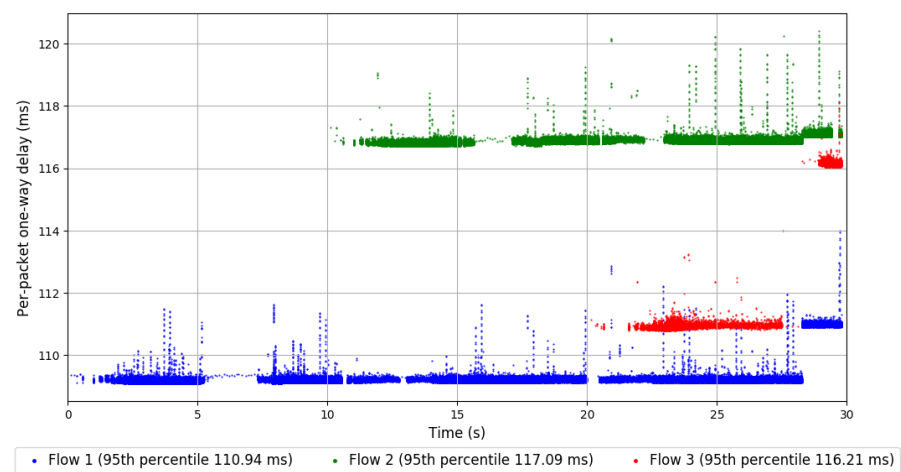
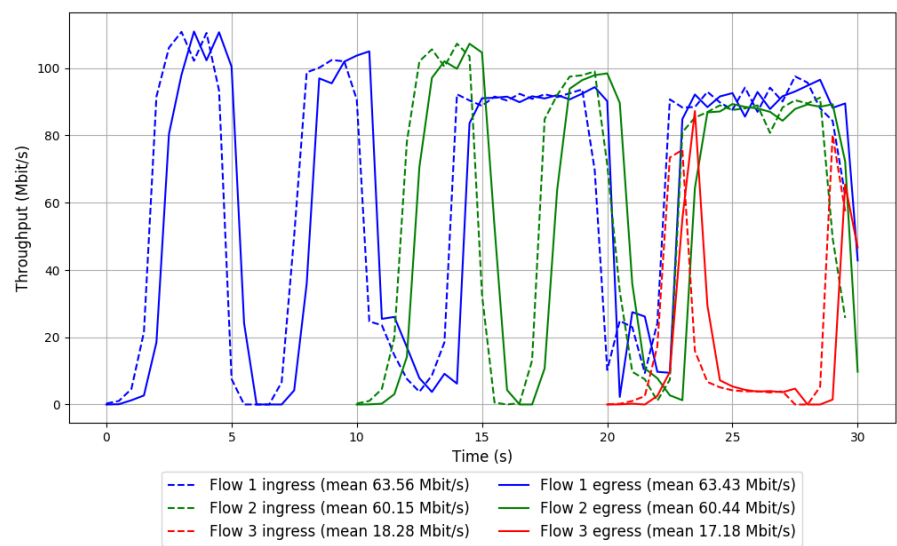


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 16:35:42  
End at: 2018-05-24 16:36:12  
Local clock offset: 0.267 ms  
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 109.07 Mbit/s  
95th percentile per-packet one-way delay: 116.955 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 63.43 Mbit/s  
95th percentile per-packet one-way delay: 110.938 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 60.44 Mbit/s  
95th percentile per-packet one-way delay: 117.088 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 17.18 Mbit/s  
95th percentile per-packet one-way delay: 116.213 ms  
Loss rate: 8.13%

Run 2: Report of QUIC Cubic — Data Link

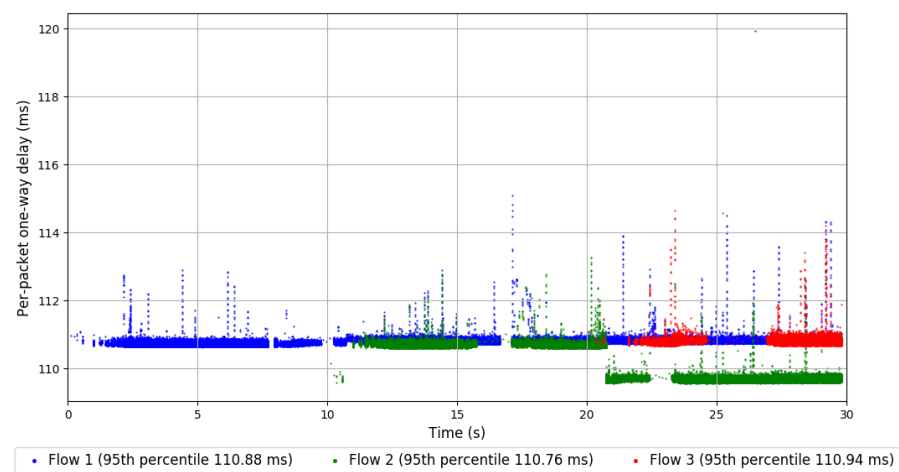
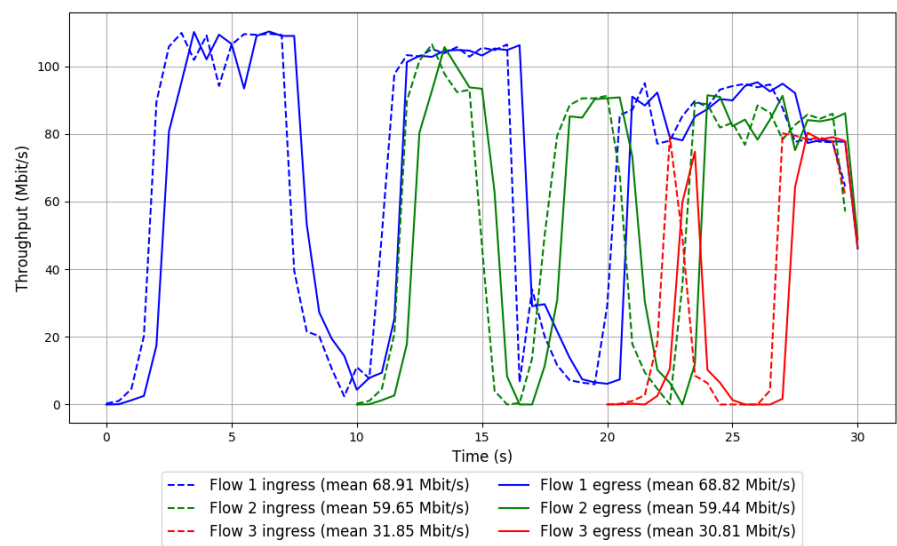


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 16:59:20  
End at: 2018-05-24 16:59:50  
Local clock offset: 0.09 ms  
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 118.23 Mbit/s  
95th percentile per-packet one-way delay: 110.871 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 68.82 Mbit/s  
95th percentile per-packet one-way delay: 110.878 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 59.44 Mbit/s  
95th percentile per-packet one-way delay: 110.763 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 30.81 Mbit/s  
95th percentile per-packet one-way delay: 110.944 ms  
Loss rate: 5.23%

Run 3: Report of QUIC Cubic — Data Link

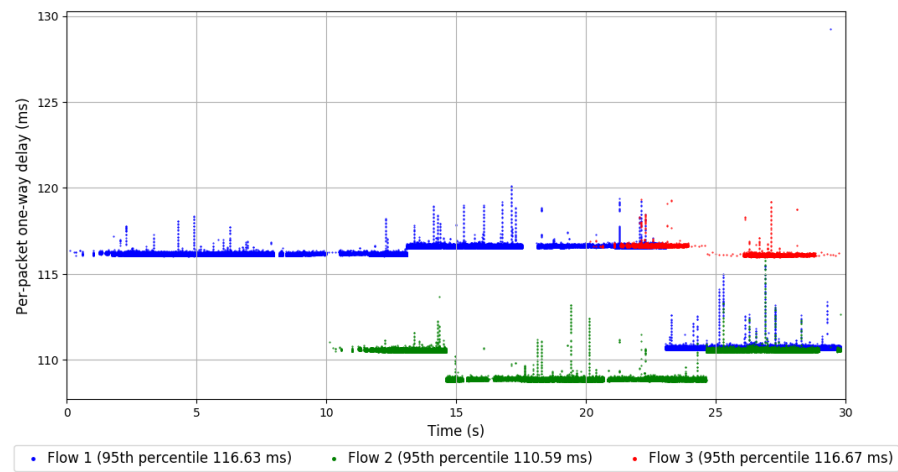
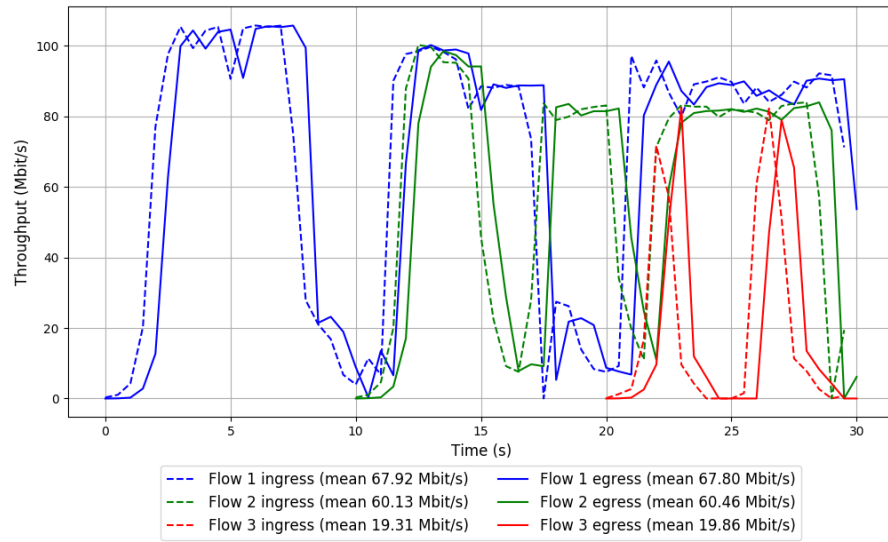


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 17:22:46  
End at: 2018-05-24 17:23:16  
Local clock offset: -0.313 ms  
Remote clock offset: -0.527 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 114.30 Mbit/s  
95th percentile per-packet one-way delay: 116.615 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 67.80 Mbit/s  
95th percentile per-packet one-way delay: 116.626 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 60.46 Mbit/s  
95th percentile per-packet one-way delay: 110.588 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 19.86 Mbit/s  
95th percentile per-packet one-way delay: 116.670 ms  
Loss rate: 0.21%

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



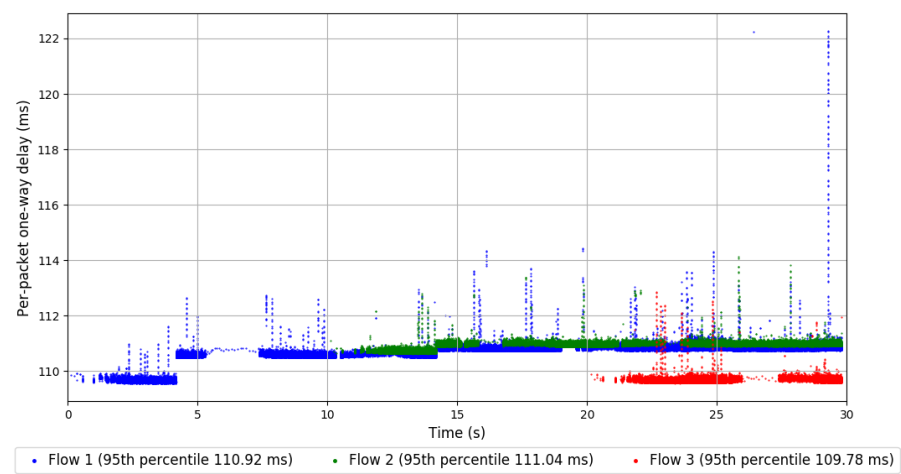
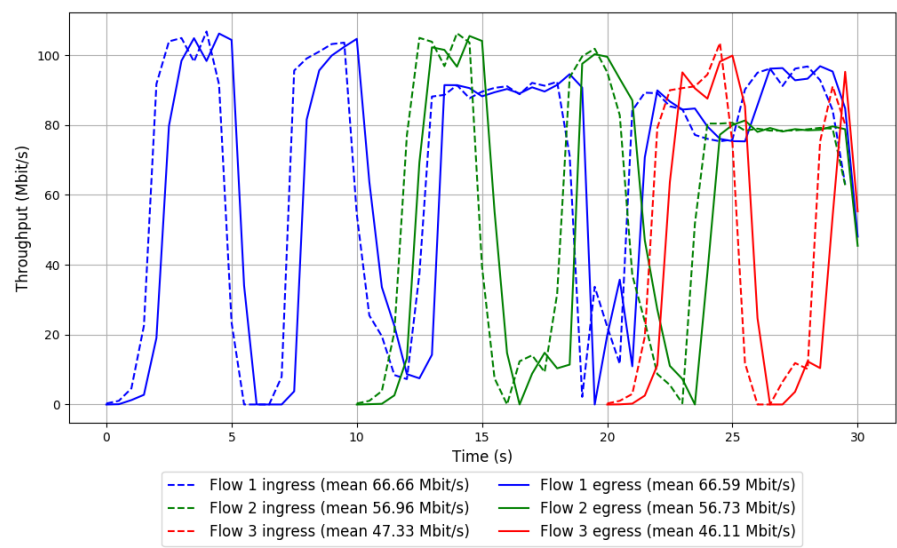
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 17:46:26  
End at: 2018-05-24 17:46:56  
Local clock offset: 0.153 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 119.18 Mbit/s  
95th percentile per-packet one-way delay: 111.004 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 66.59 Mbit/s  
95th percentile per-packet one-way delay: 110.921 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 56.73 Mbit/s  
95th percentile per-packet one-way delay: 111.038 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 46.11 Mbit/s  
95th percentile per-packet one-way delay: 109.778 ms  
Loss rate: 4.73%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 18:09:36

End at: 2018-05-24 18:10:06

Local clock offset: -0.284 ms

Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2018-05-24 21:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 121.28 Mbit/s

95th percentile per-packet one-way delay: 110.708 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 69.31 Mbit/s

95th percentile per-packet one-way delay: 110.559 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 61.60 Mbit/s

95th percentile per-packet one-way delay: 110.761 ms

Loss rate: 0.20%

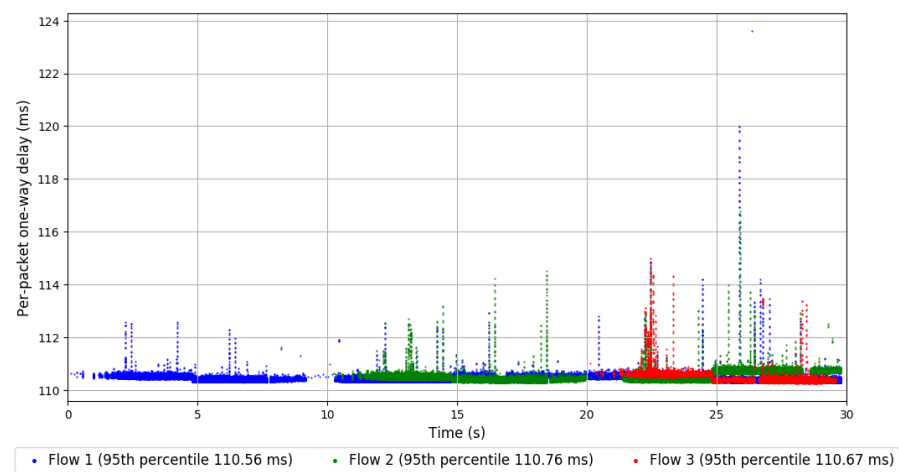
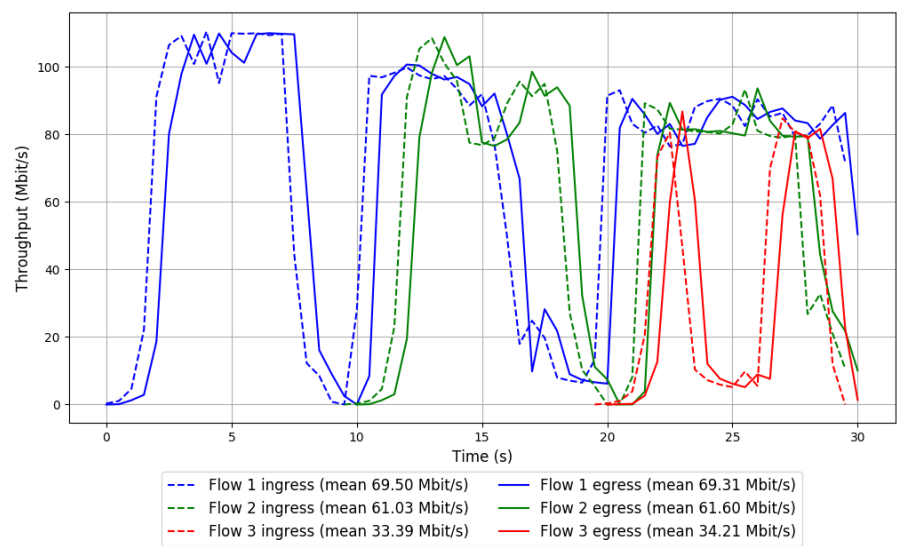
-- Flow 3:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 110.665 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

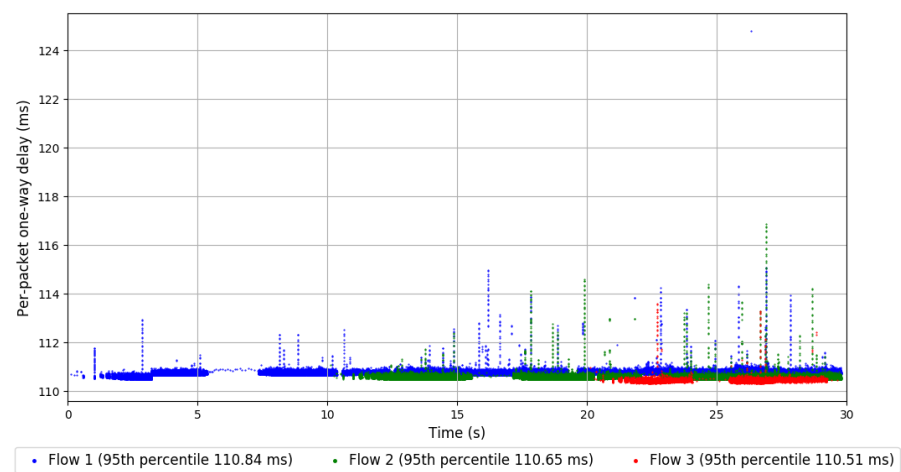
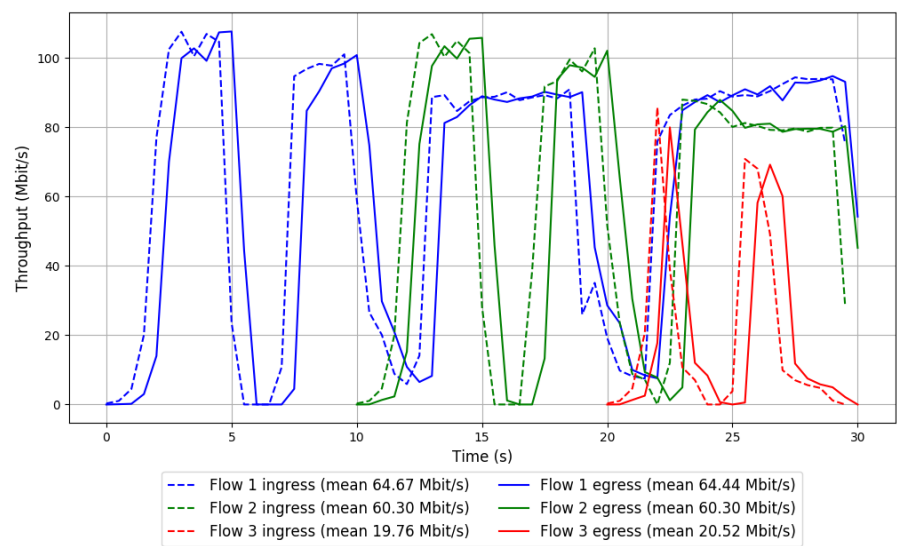


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 18:33:07  
End at: 2018-05-24 18:33:37  
Local clock offset: -0.163 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 110.98 Mbit/s  
95th percentile per-packet one-way delay: 110.824 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 64.44 Mbit/s  
95th percentile per-packet one-way delay: 110.845 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 60.30 Mbit/s  
95th percentile per-packet one-way delay: 110.650 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 20.52 Mbit/s  
95th percentile per-packet one-way delay: 110.507 ms  
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

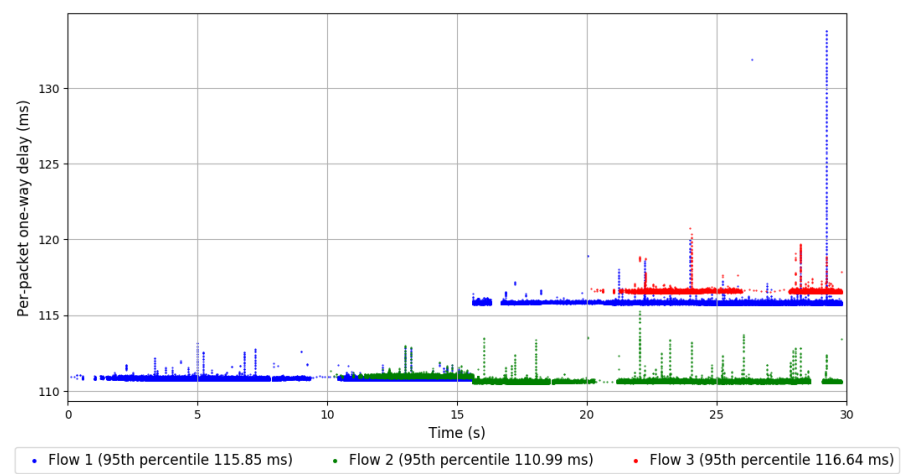
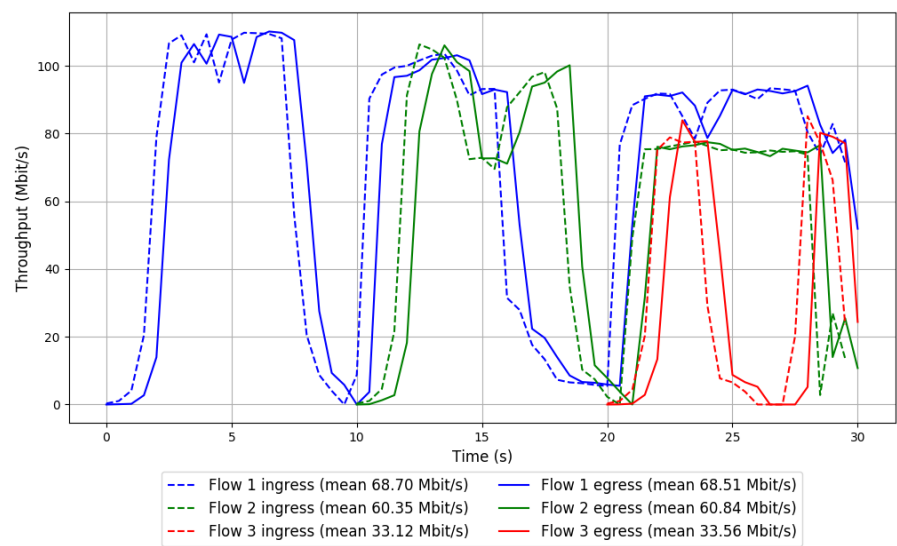


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 18:57:35  
End at: 2018-05-24 18:58:05  
Local clock offset: 0.006 ms  
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 119.76 Mbit/s  
95th percentile per-packet one-way delay: 116.535 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 68.51 Mbit/s  
95th percentile per-packet one-way delay: 115.851 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 60.84 Mbit/s  
95th percentile per-packet one-way delay: 110.990 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 33.56 Mbit/s  
95th percentile per-packet one-way delay: 116.643 ms  
Loss rate: 0.99%

Run 8: Report of QUIC Cubic — Data Link



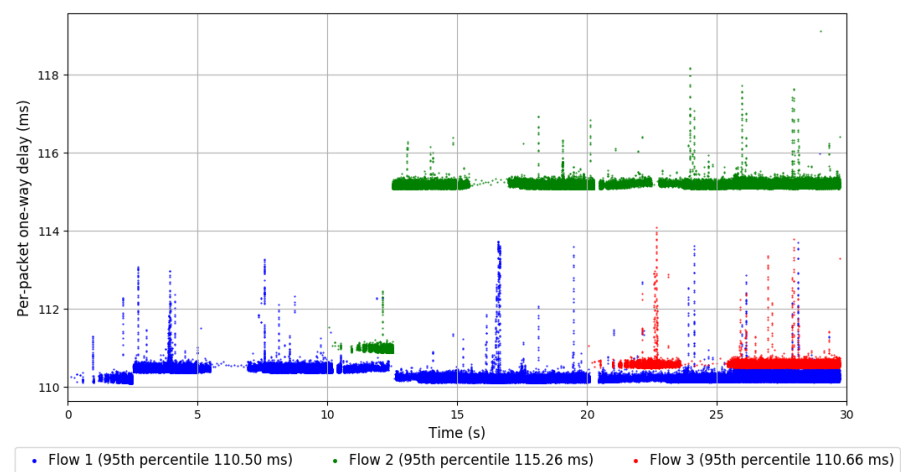
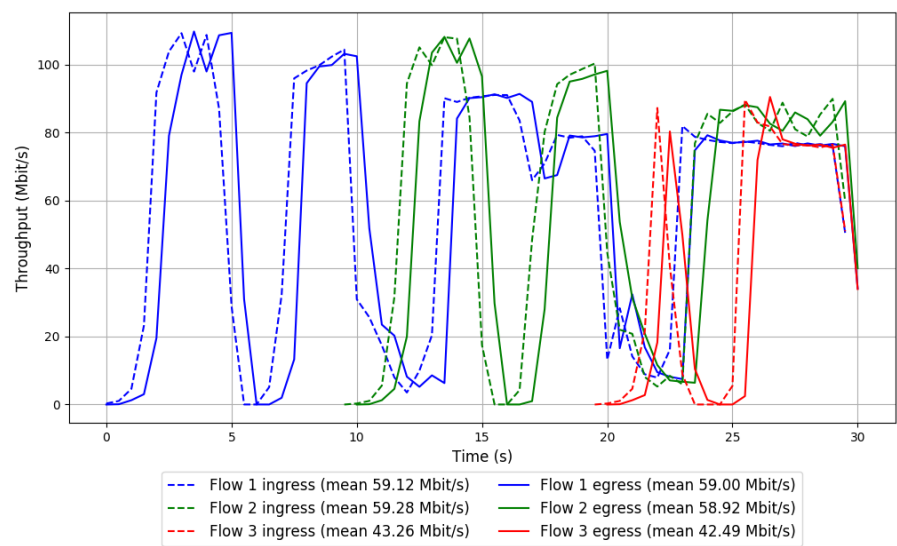
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 19:20:48  
End at: 2018-05-24 19:21:18  
Local clock offset: 0.021 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 112.02 Mbit/s  
95th percentile per-packet one-way delay: 115.214 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 59.00 Mbit/s  
95th percentile per-packet one-way delay: 110.501 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 58.92 Mbit/s  
95th percentile per-packet one-way delay: 115.259 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 42.49 Mbit/s  
95th percentile per-packet one-way delay: 110.658 ms  
Loss rate: 3.96%



Run 9: Report of QUIC Cubic — Data Link

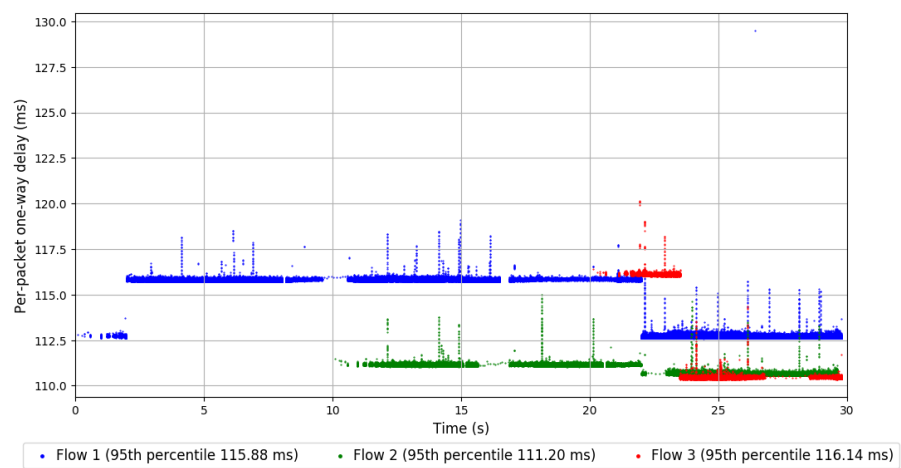
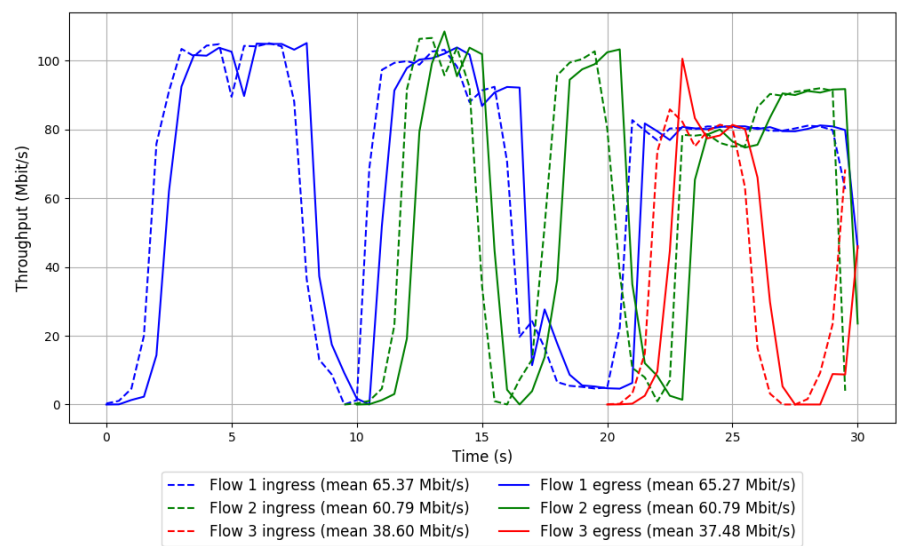


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 19:44:27  
End at: 2018-05-24 19:44:57  
Local clock offset: 0.154 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.45 Mbit/s  
95th percentile per-packet one-way delay: 115.908 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 65.27 Mbit/s  
95th percentile per-packet one-way delay: 115.884 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 60.79 Mbit/s  
95th percentile per-packet one-way delay: 111.200 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 37.48 Mbit/s  
95th percentile per-packet one-way delay: 116.143 ms  
Loss rate: 5.11%

Run 10: Report of QUIC Cubic — Data Link

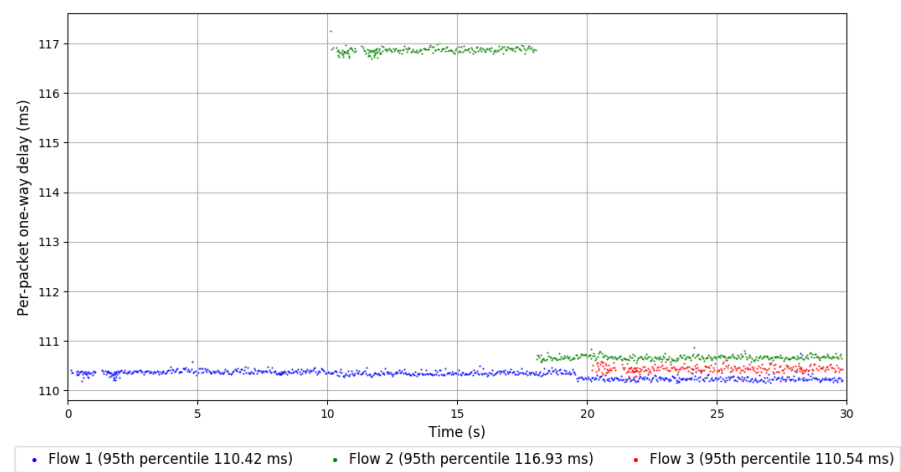
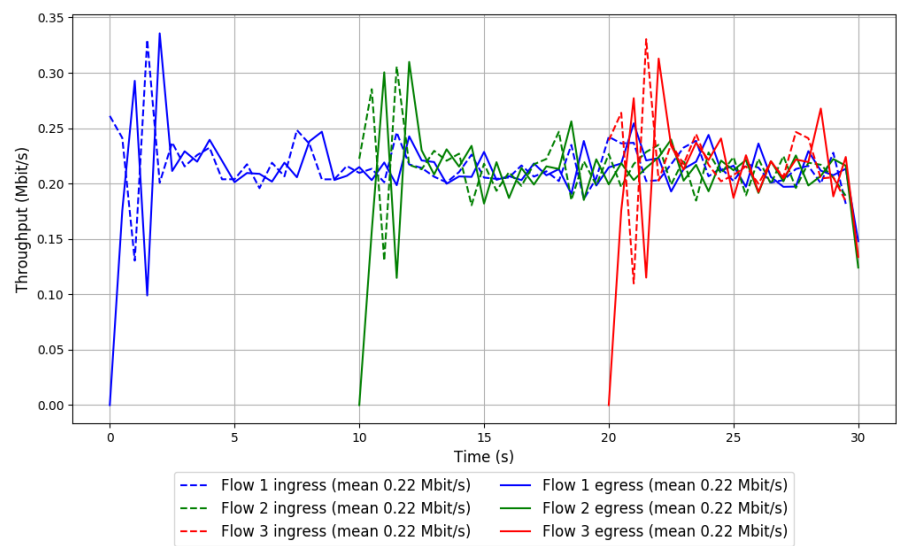


```
Run 1: Statistics of SCReAM

Start at: 2018-05-24 16:04:41
End at: 2018-05-24 16:05:11
Local clock offset: 0.02 ms
Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2018-05-24 21:30:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 116.889 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.420 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 116.929 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.541 ms
Loss rate: 1.87%
```

Run 1: Report of SCSReAM — Data Link

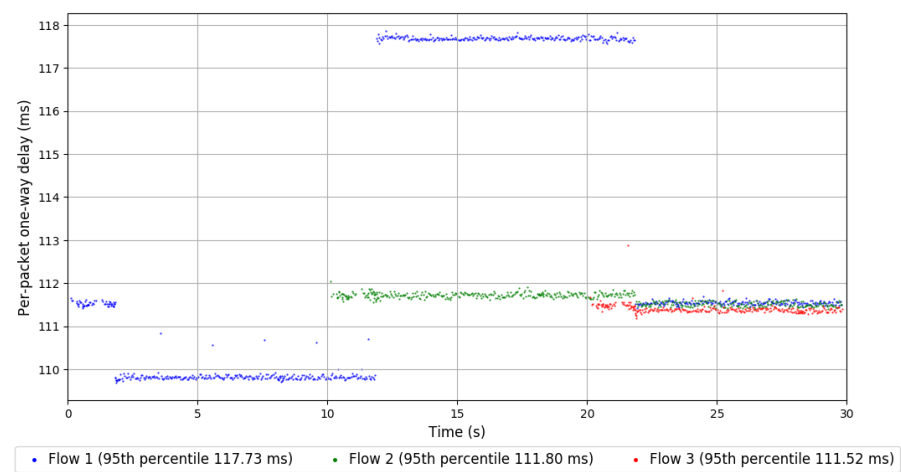
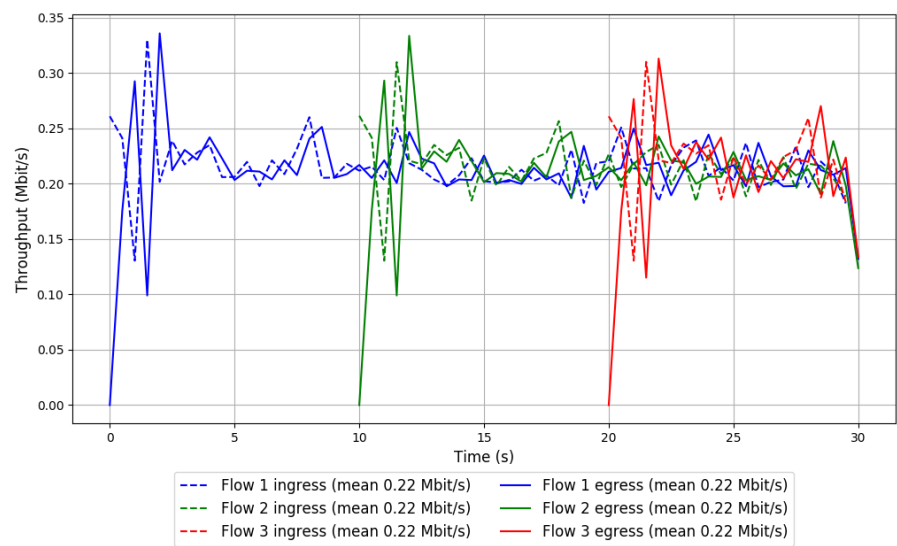


Run 2: Statistics of SReAM

Start at: 2018-05-24 16:28:48  
End at: 2018-05-24 16:29:18  
Local clock offset: 0.339 ms  
Remote clock offset: -0.573 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 117.699 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 117.727 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.798 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.517 ms  
Loss rate: 2.21%

Run 2: Report of SReAM — Data Link



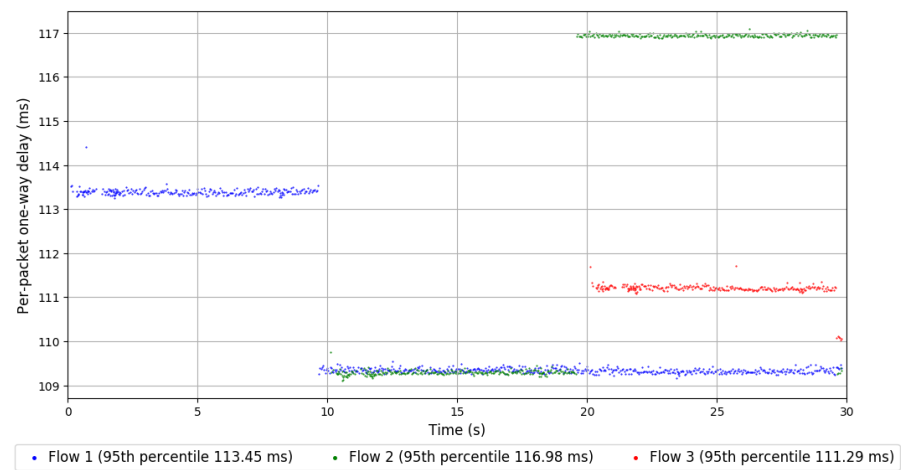
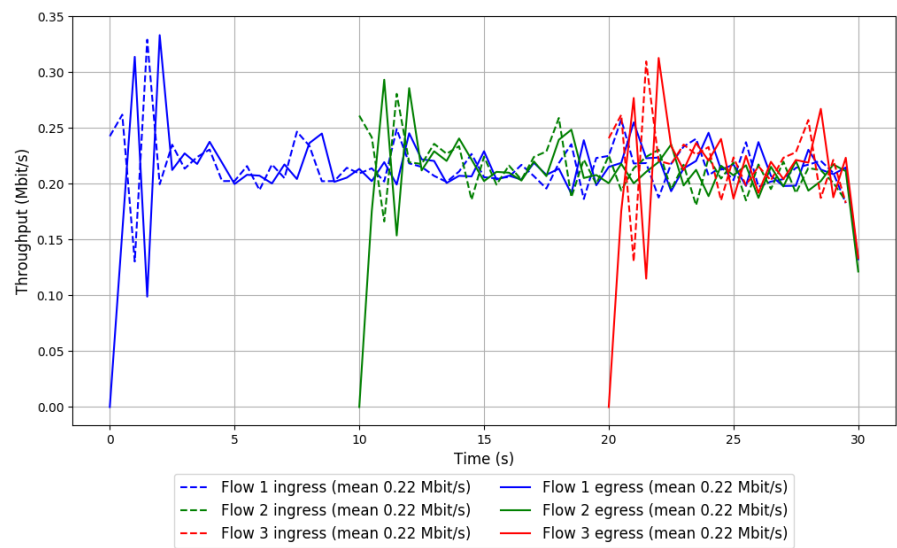
Run 3: Statistics of SReAM

Start at: 2018-05-24 16:52:31  
End at: 2018-05-24 16:53:01  
Local clock offset: 0.343 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 116.954 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 113.447 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 116.983 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.293 ms  
Loss rate: 2.22%



Run 3: Report of SReAM — Data Link

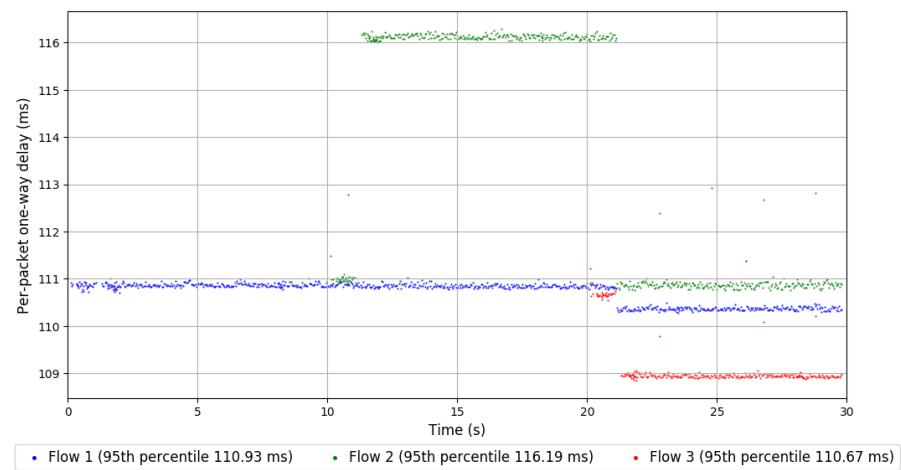
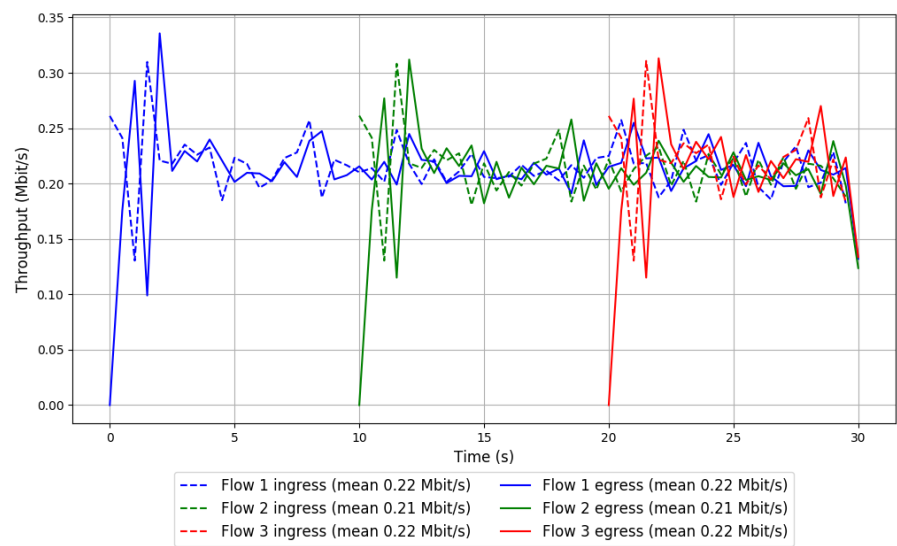


Run 4: Statistics of SReAM

Start at: 2018-05-24 17:15:49  
End at: 2018-05-24 17:16:19  
Local clock offset: 0.051 ms  
Remote clock offset: -0.187 ms

```
# Below is generated by plot.py at 2018-05-24 21:30:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 116.159 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.931 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.191 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.665 ms
Loss rate: 2.21%
```

Run 4: Report of SReAM — Data Link

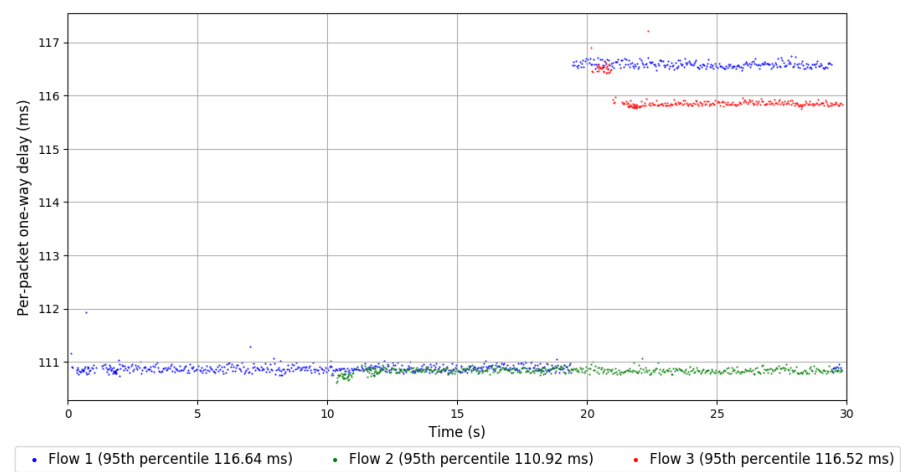
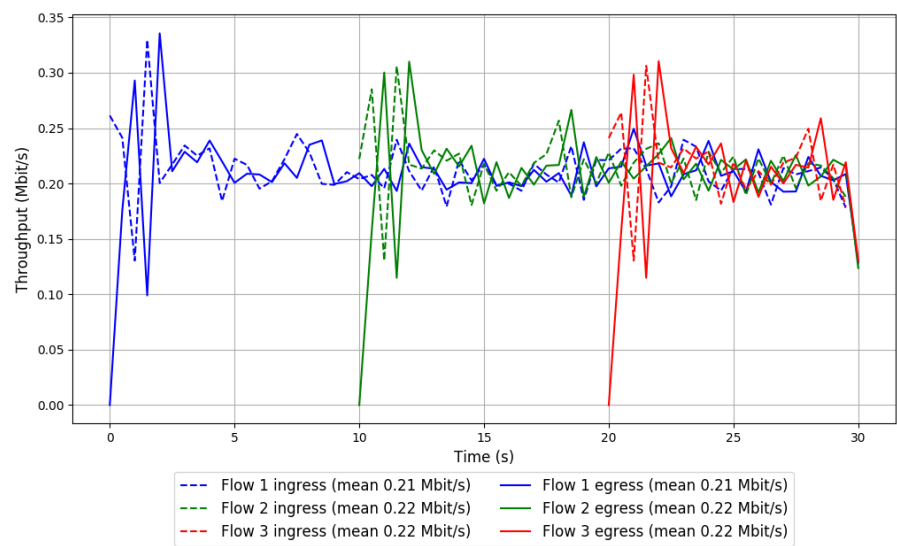


Run 5: Statistics of SReAM

Start at: 2018-05-24 17:39:29  
End at: 2018-05-24 17:39:59  
Local clock offset: -0.077 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 116.606 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 116.644 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 110.917 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 116.517 ms  
Loss rate: 2.20%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-24 18:02:45

End at: 2018-05-24 18:03:15

Local clock offset: 0.215 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-05-24 21:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 116.878 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.211 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 116.480 ms

Loss rate: 1.25%

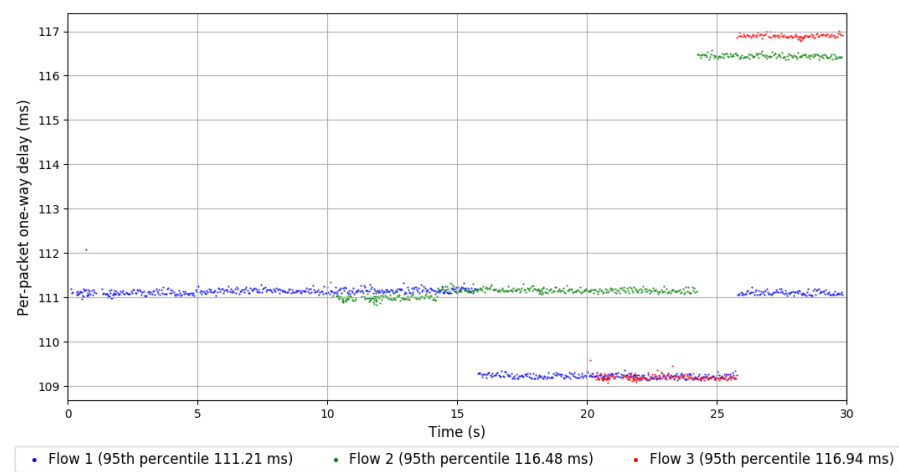
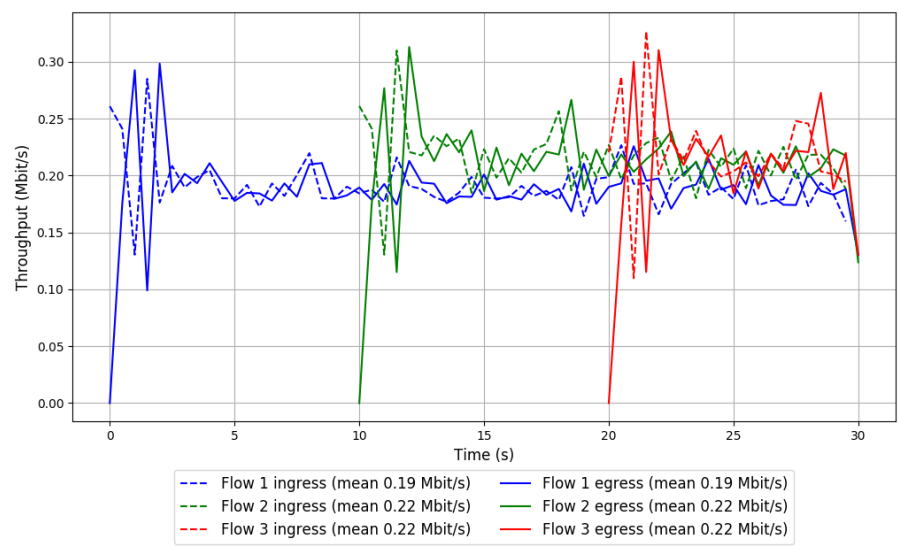
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 116.941 ms

Loss rate: 2.18%

Run 6: Report of SReAM — Data Link



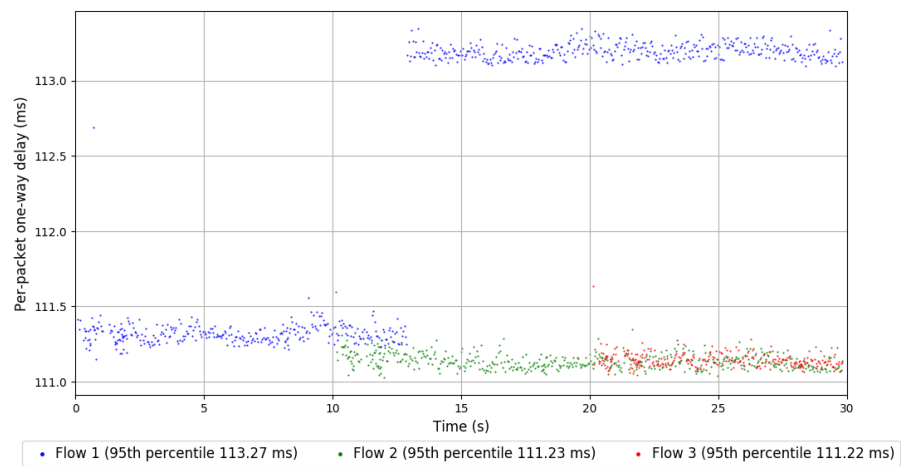
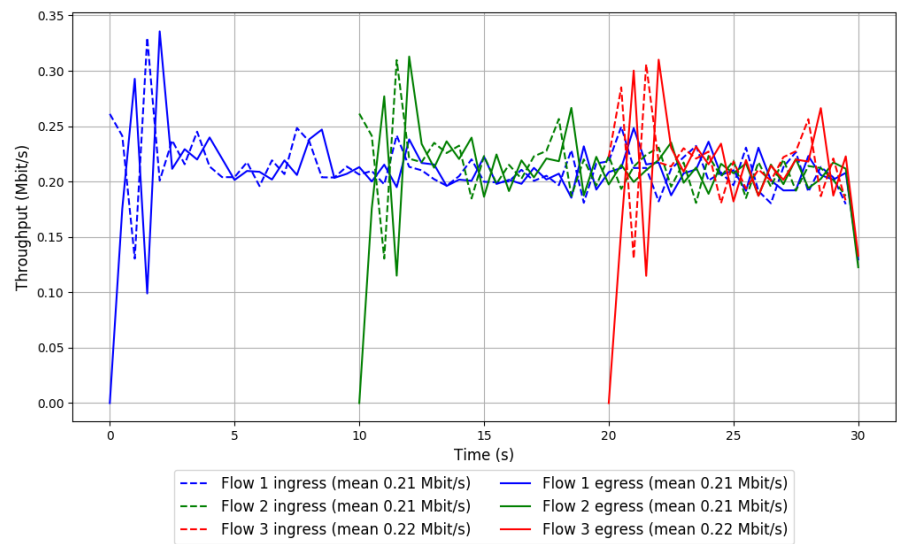
Run 7: Statistics of SReAM

Start at: 2018-05-24 18:26:17  
End at: 2018-05-24 18:26:47  
Local clock offset: -0.047 ms  
Remote clock offset: -0.61 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 113.242 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 113.267 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 111.229 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.222 ms  
Loss rate: 2.23%



Run 7: Report of SReAM — Data Link

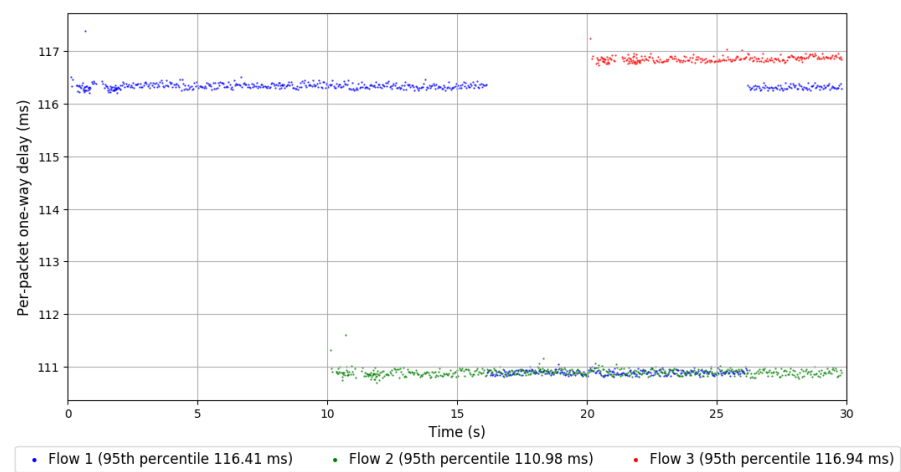
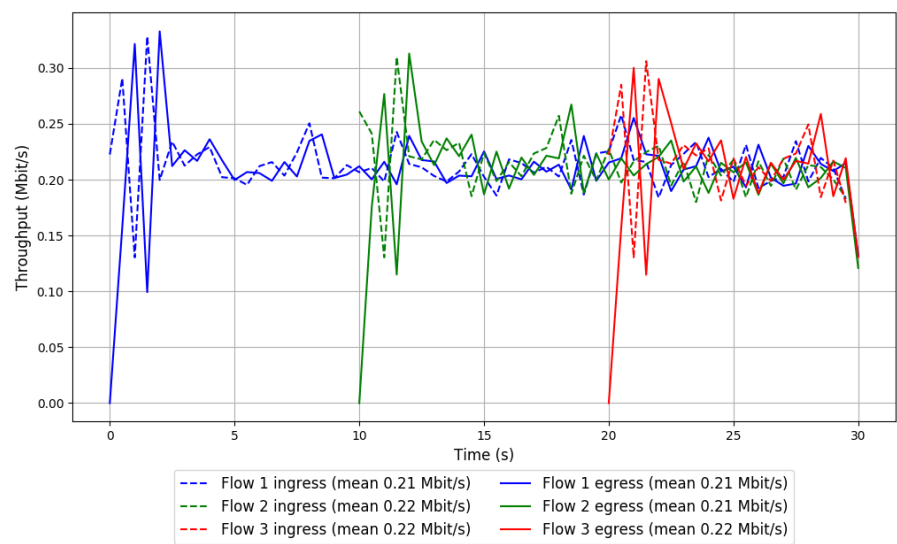


Run 8: Statistics of SReAM

Start at: 2018-05-24 18:50:43  
End at: 2018-05-24 18:51:13  
Local clock offset: 0.059 ms  
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 116.881 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 116.408 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 110.980 ms  
Loss rate: 1.22%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 116.941 ms  
Loss rate: 2.20%

Run 8: Report of SReAM — Data Link

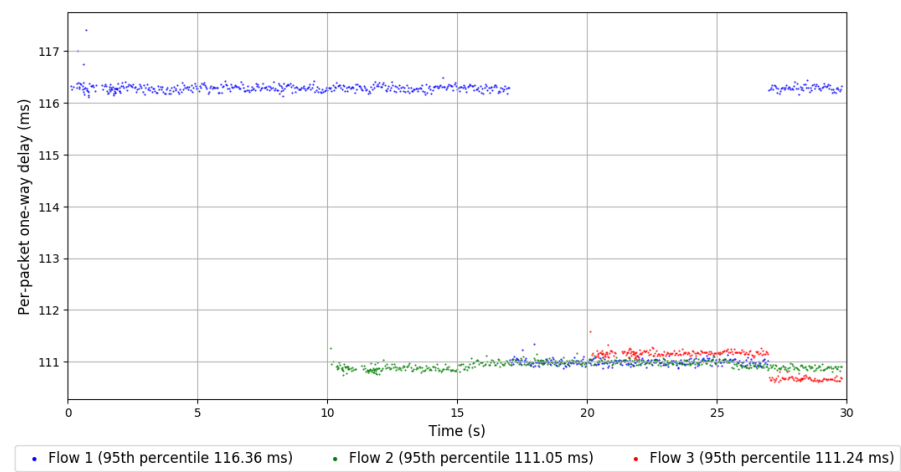
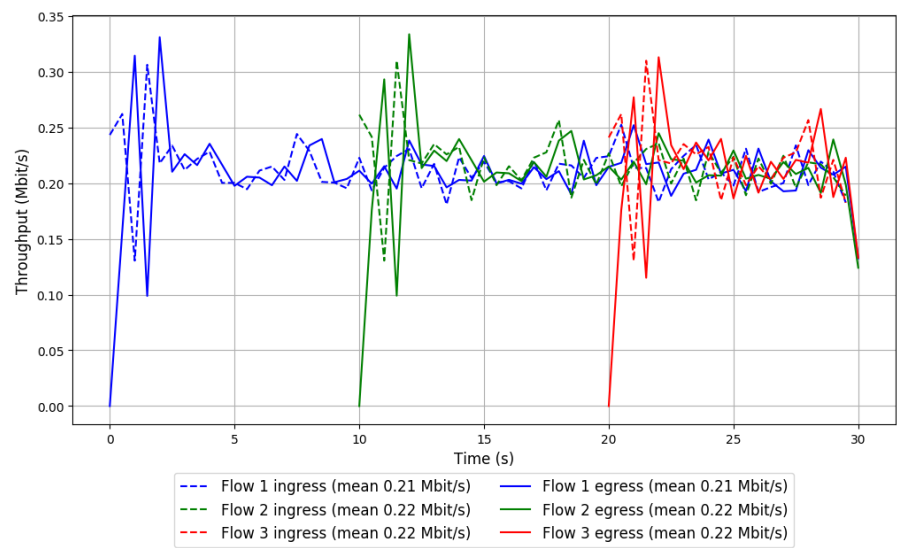


Run 9: Statistics of SReAM

Start at: 2018-05-24 19:13:53  
End at: 2018-05-24 19:14:23  
Local clock offset: 0.005 ms  
Remote clock offset: -0.565 ms

# Below is generated by plot.py at 2018-05-24 21:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 116.341 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 116.363 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.049 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.236 ms  
Loss rate: 2.21%

Run 9: Report of SReAM — Data Link

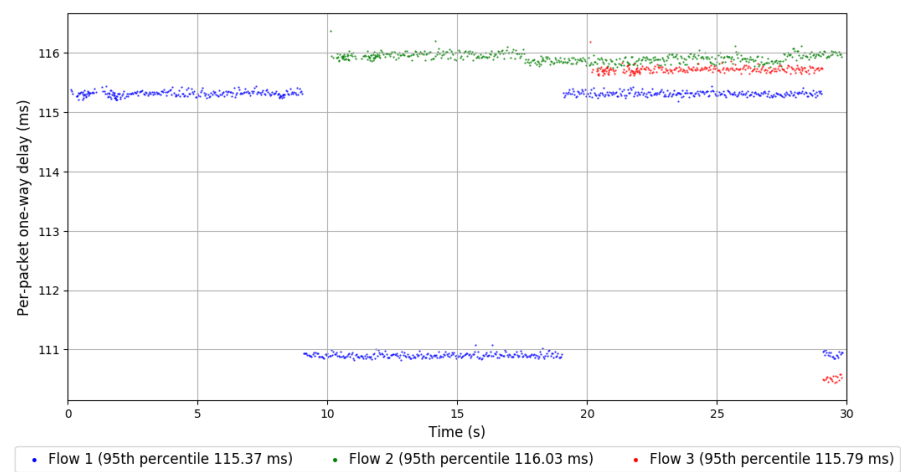
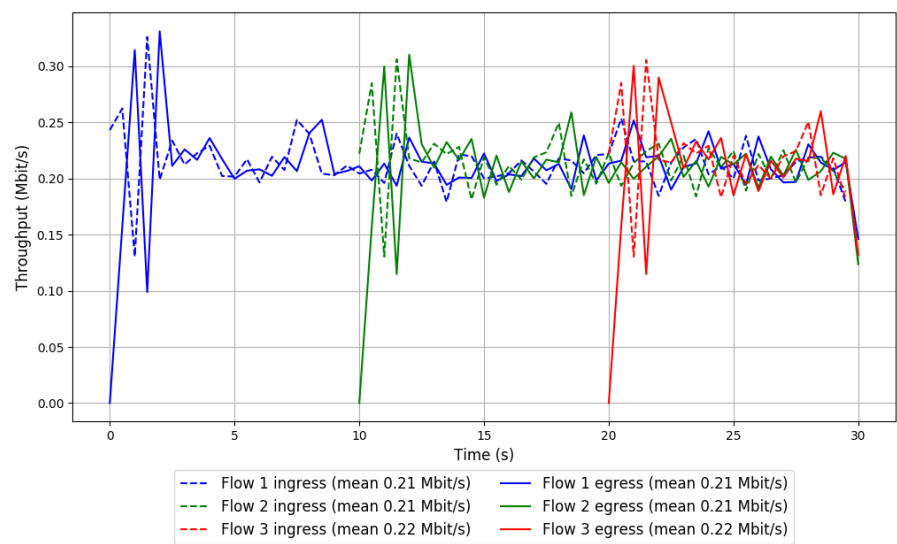


Run 10: Statistics of SCReAM

Start at: 2018-05-24 19:37:31  
End at: 2018-05-24 19:38:01  
Local clock offset: -0.072 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-05-24 21:30:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 115.999 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 115.372 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 116.026 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 115.788 ms  
Loss rate: 2.23%

Run 10: Report of SCReAM — Data Link



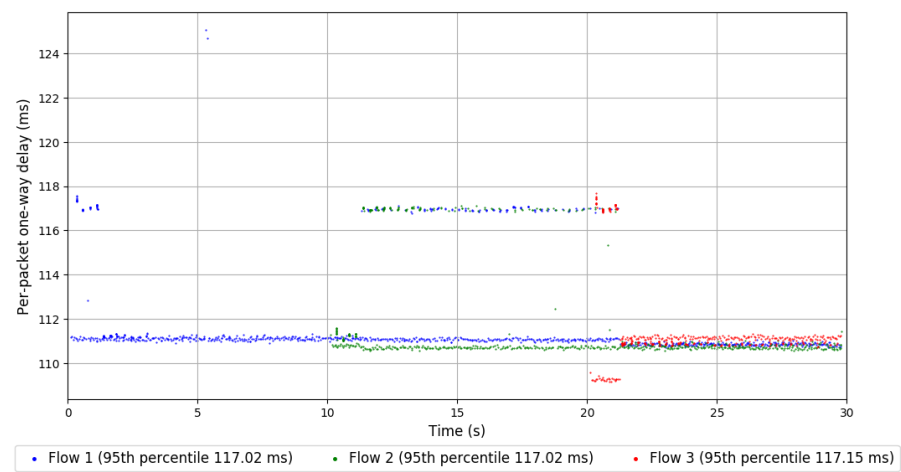
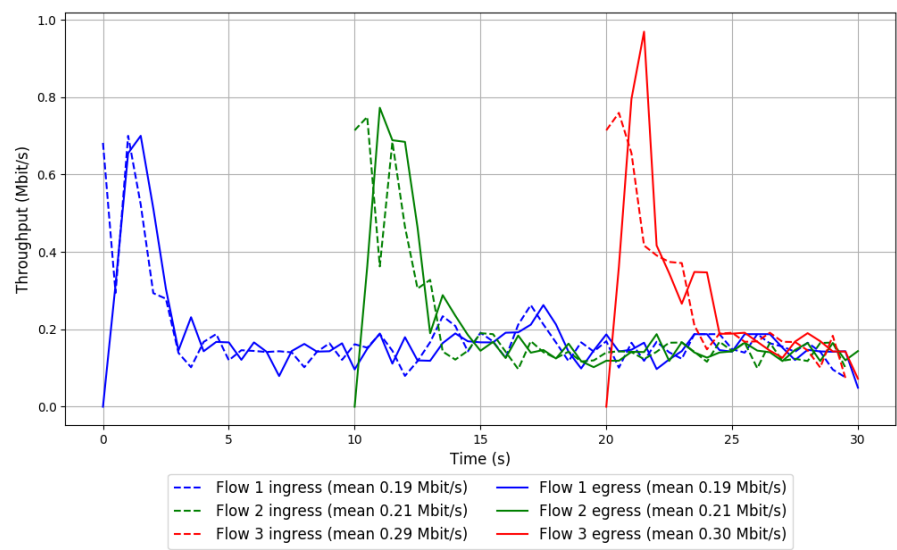
Run 1: Statistics of Sprout

Start at: 2018-05-24 16:18:39  
End at: 2018-05-24 16:19:09  
Local clock offset: -0.172 ms  
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-05-24 21:30:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 117.021 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 117.023 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 117.016 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 117.151 ms  
Loss rate: 0.80%



Run 1: Report of Sprout — Data Link

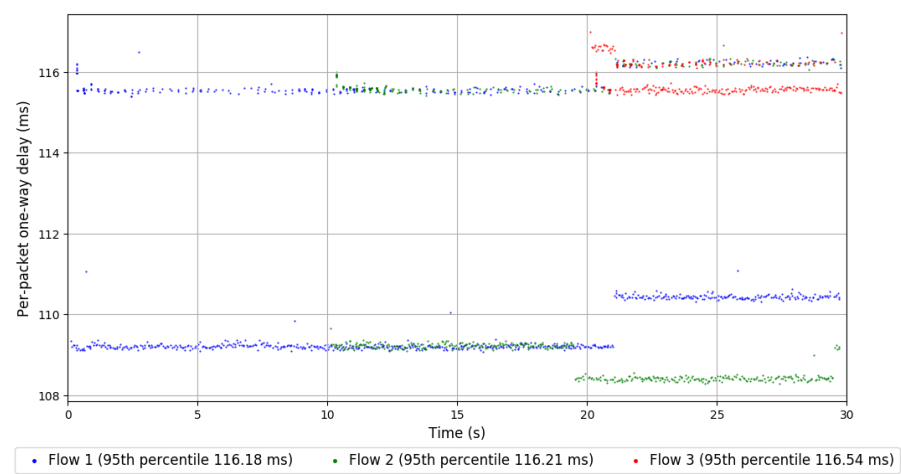
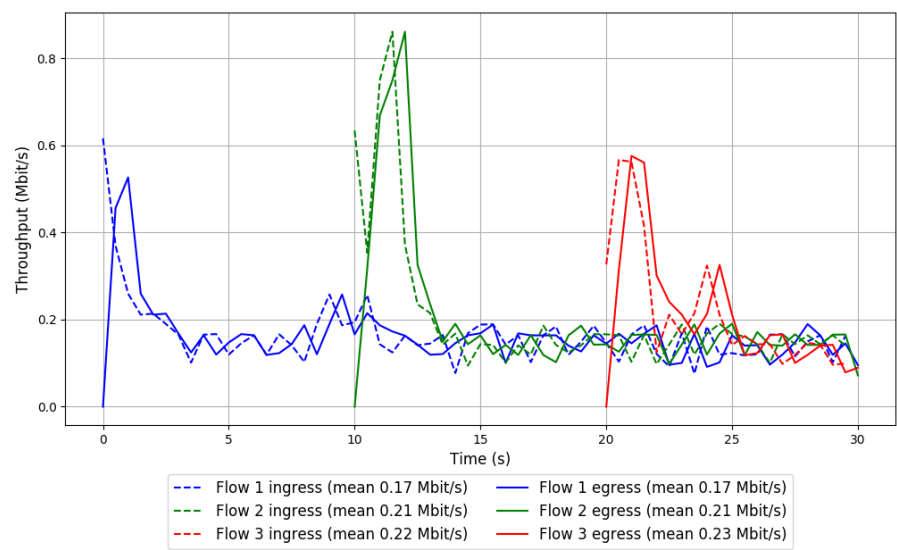


## Run 2: Statistics of Sprout

Start at: 2018-05-24 16:42:49  
End at: 2018-05-24 16:43:19  
Local clock offset: -0.133 ms  
Remote clock offset: 0.165 ms

```
# Below is generated by plot.py at 2018-05-24 21:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 116.244 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 116.180 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.214 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 116.537 ms
Loss rate: 1.22%
```

Run 2: Report of Sprout — Data Link

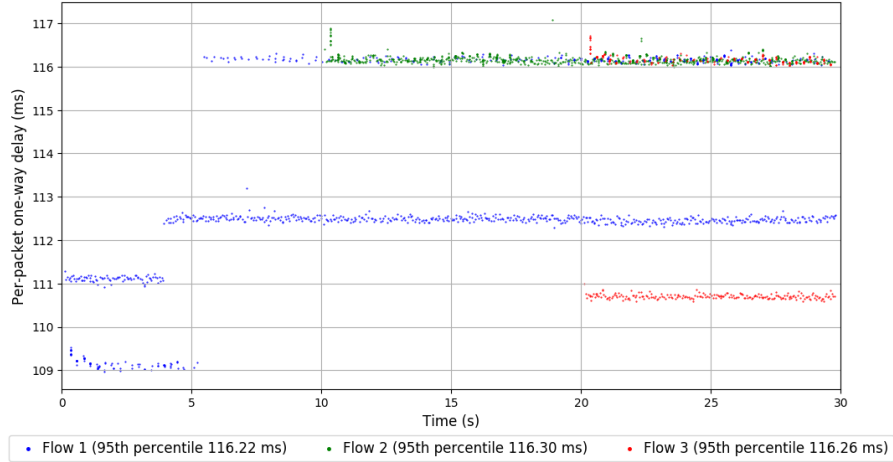
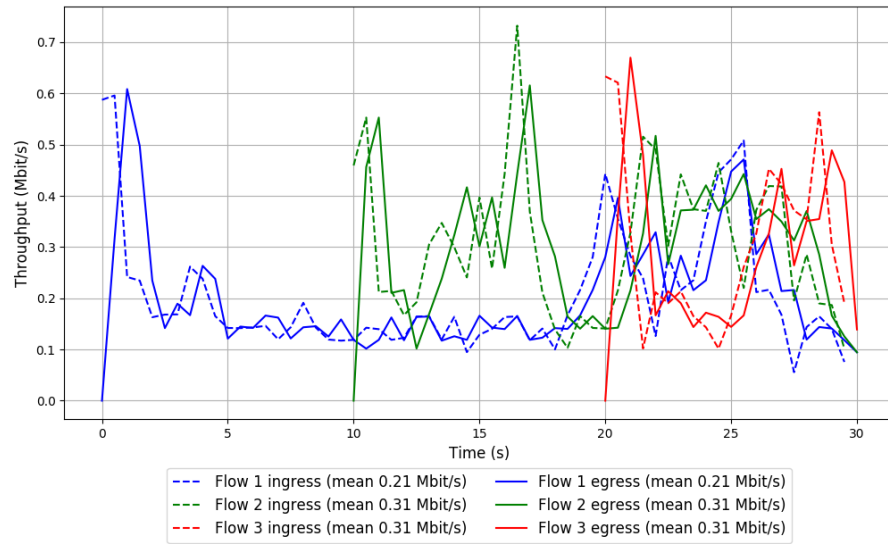


### Run 3: Statistics of Sprout

Start at: 2018-05-24 17:06:15  
End at: 2018-05-24 17:06:45  
Local clock offset: 0.087 ms  
Remote clock offset: -0.216 ms

```
# Below is generated by plot.py at 2018-05-24 21:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 116.266 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.220 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 116.298 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 116.257 ms
Loss rate: 3.03%
```

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

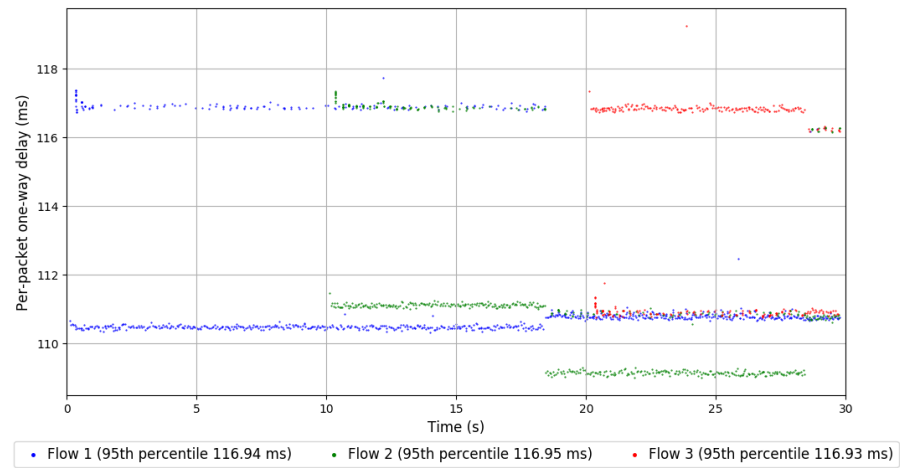
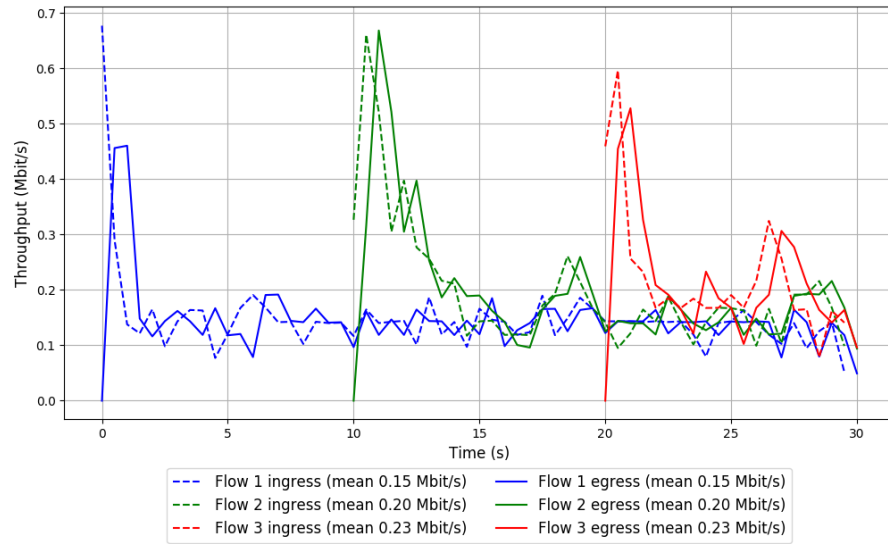


#### Run 4: Statistics of Sprout

Start at: 2018-05-24 17:29:42  
End at: 2018-05-24 17:30:12  
Local clock offset: 0.235 ms  
Remote clock offset: -0.142 ms

```
# Below is generated by plot.py at 2018-05-24 21:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 116.942 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 116.945 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 116.946 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 116.929 ms
Loss rate: 1.08%
```

# Run 4: Report of Sprout — Data Link



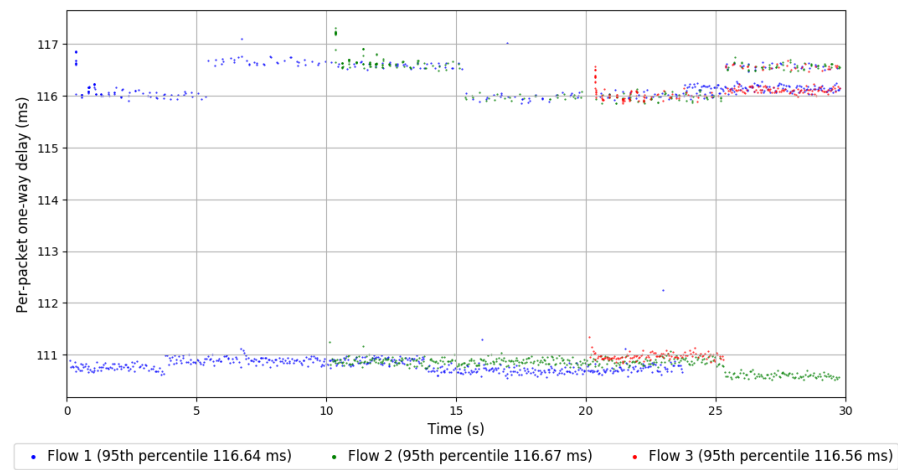
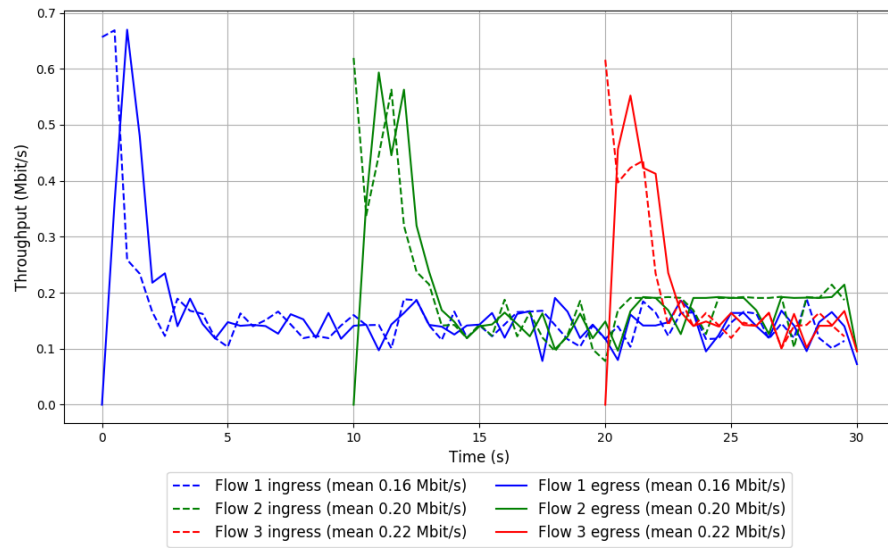
Run 5: Statistics of Sprout

Start at: 2018-05-24 17:53:25  
End at: 2018-05-24 17:53:55  
Local clock offset: -0.043 ms  
Remote clock offset: -0.159 ms

```
# Below is generated by plot.py at 2018-05-24 21:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 116.640 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 116.637 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 116.671 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 116.562 ms
Loss rate: 1.62%
```



## Run 5: Report of Sprout — Data Link

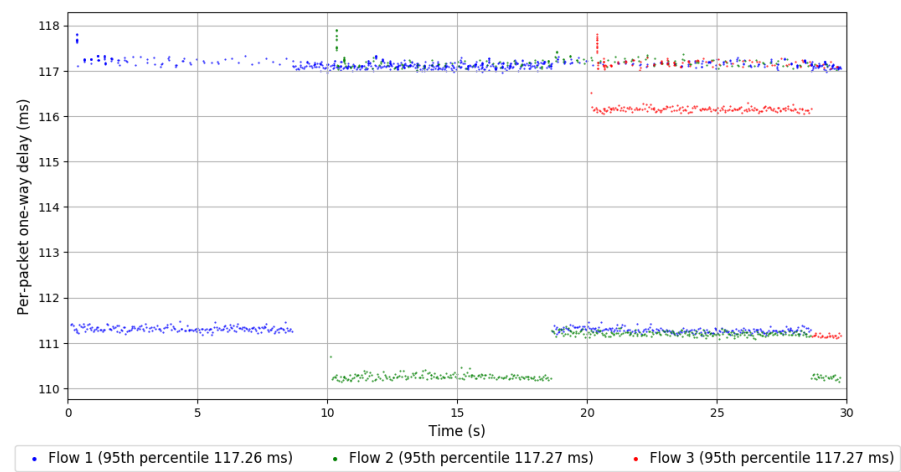
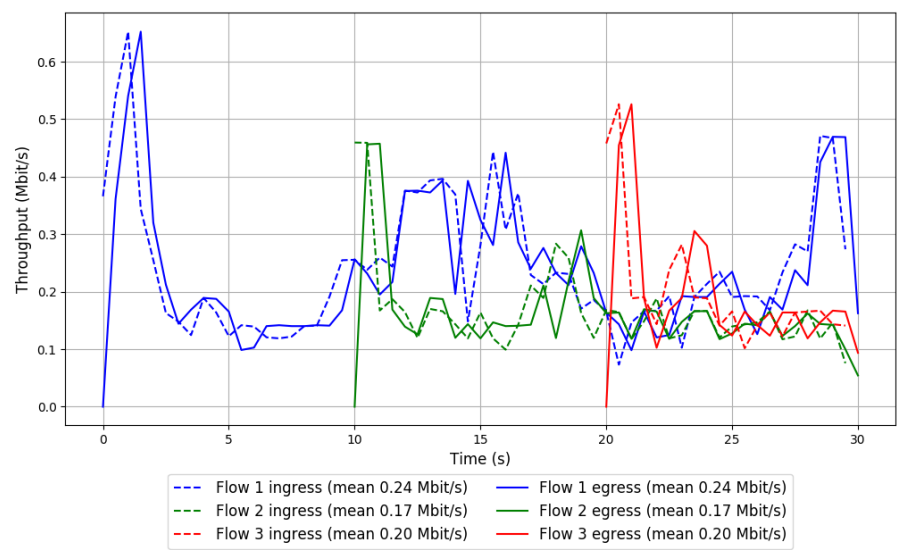


Run 6: Statistics of Sprout

Start at: 2018-05-24 18:16:42  
End at: 2018-05-24 18:17:12  
Local clock offset: 0.045 ms  
Remote clock offset: -0.593 ms

```
# Below is generated by plot.py at 2018-05-24 21:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 117.266 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 117.264 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 117.270 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 117.273 ms
Loss rate: 2.29%
```

Run 6: Report of Sprout — Data Link

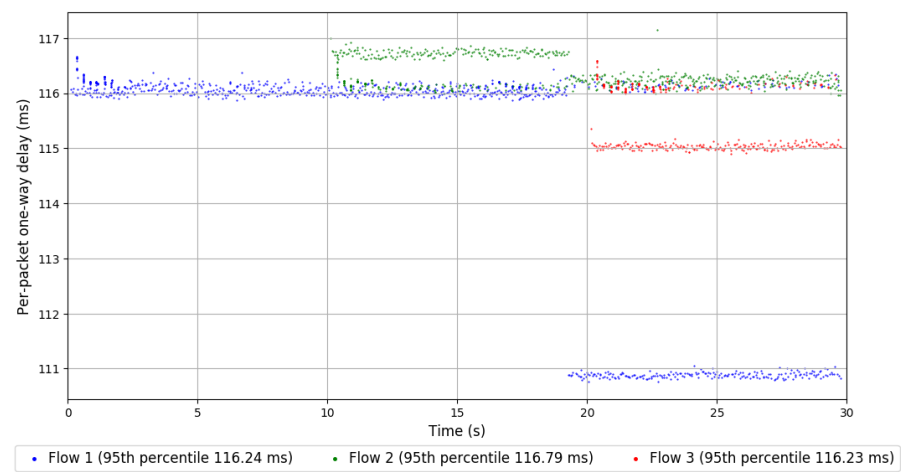
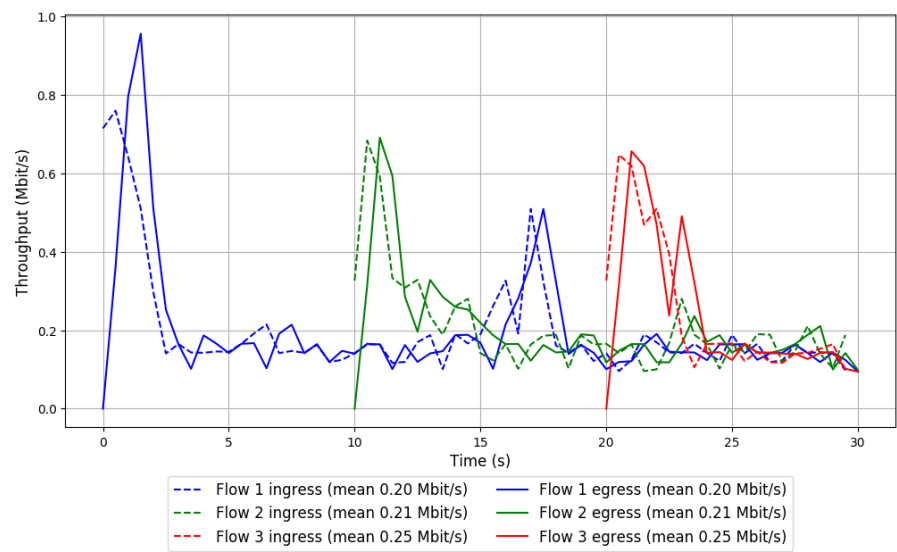


Run 7: Statistics of Sprout

Start at: 2018-05-24 18:40:31  
End at: 2018-05-24 18:41:01  
Local clock offset: -0.125 ms  
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2018-05-24 21:30:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 116.724 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 116.240 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 116.786 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 116.228 ms  
Loss rate: 1.89%

Run 7: Report of Sprout — Data Link

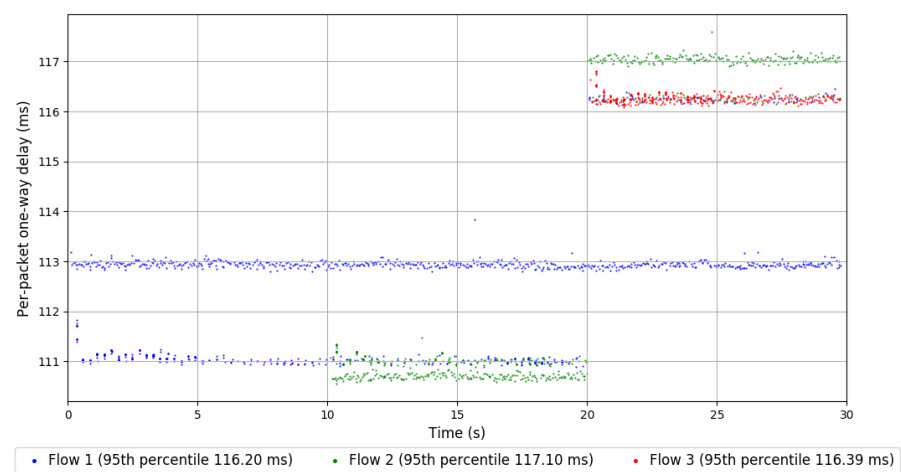
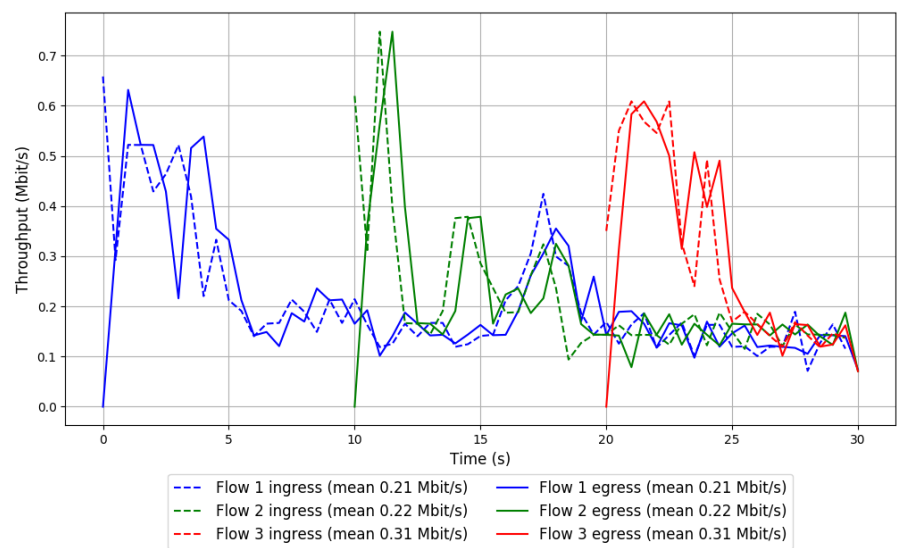


Run 8: Statistics of Sprout

Start at: 2018-05-24 19:04:30  
End at: 2018-05-24 19:05:00  
Local clock offset: 0.316 ms  
Remote clock offset: -0.215 ms

```
# Below is generated by plot.py at 2018-05-24 21:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 117.039 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 116.196 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.103 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 116.394 ms
Loss rate: 1.55%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-24 19:27:45

End at: 2018-05-24 19:28:15

Local clock offset: 0.202 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-05-24 21:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 116.139 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 116.095 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 116.177 ms

Loss rate: 0.43%

-- Flow 3:

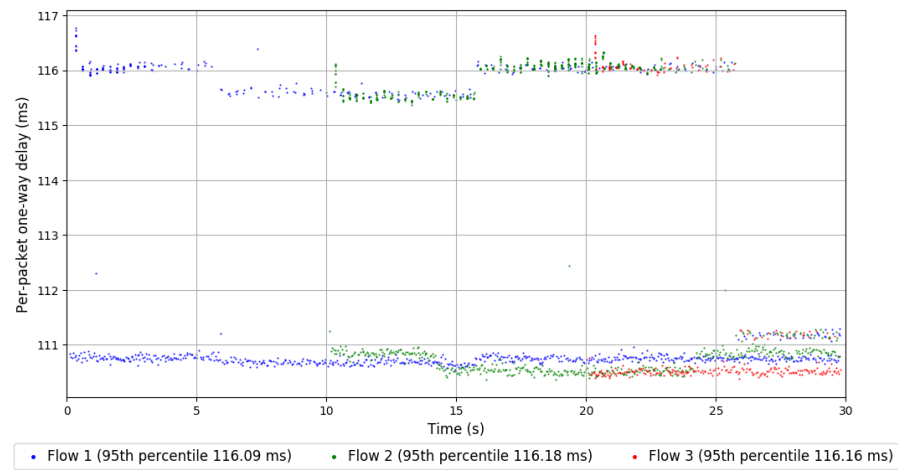
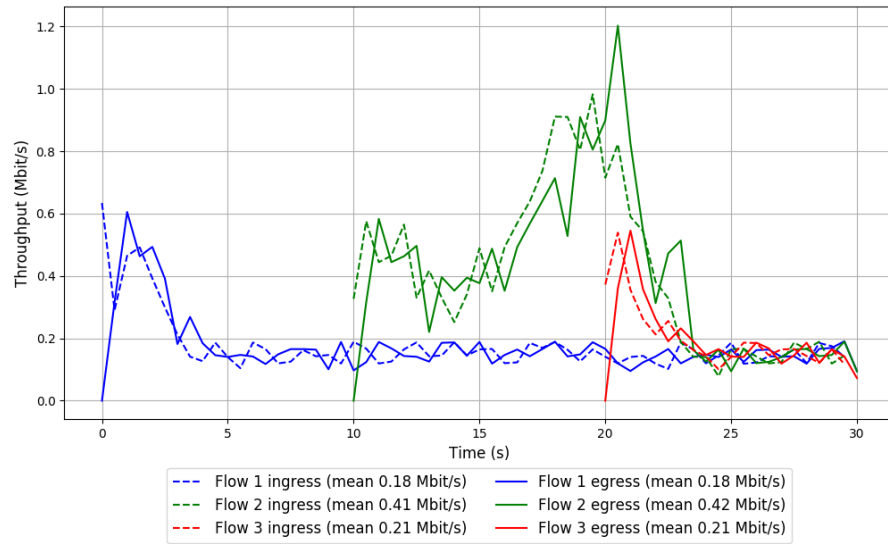
Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 116.158 ms

Loss rate: 2.23%



## Run 9: Report of Sprout — Data Link

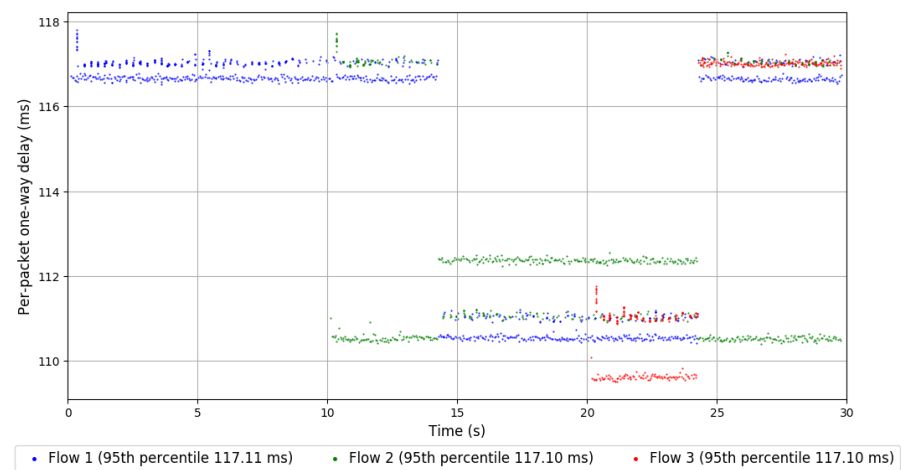
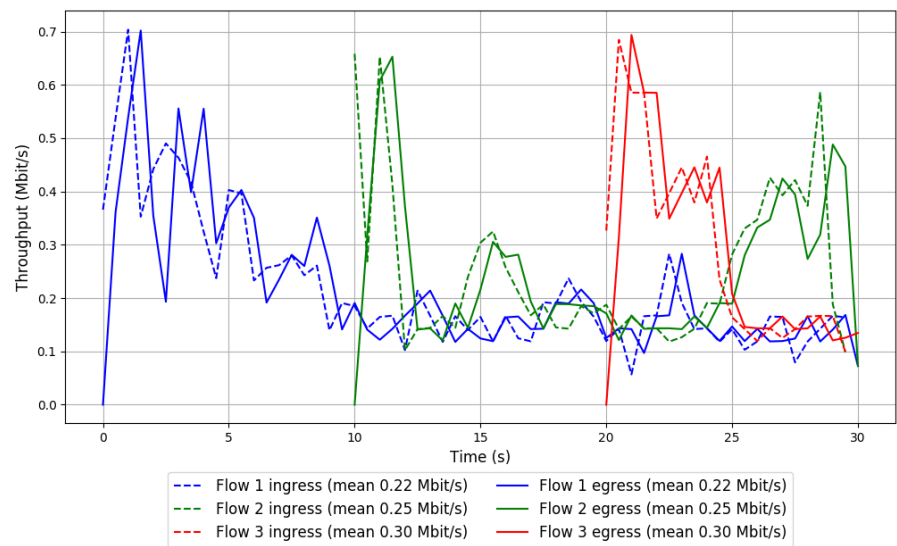


Run 10: Statistics of Sprout

Start at: 2018-05-24 19:51:36  
End at: 2018-05-24 19:52:06  
Local clock offset: -0.02 ms  
Remote clock offset: -0.163 ms

```
# Below is generated by plot.py at 2018-05-24 21:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 117.103 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.106 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 117.104 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 117.099 ms
Loss rate: 0.92%
```

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-24 16:12:50

End at: 2018-05-24 16:13:20

Local clock offset: -0.166 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-05-24 21:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 148.02 Mbit/s

95th percentile per-packet one-way delay: 110.777 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 110.784 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 190.82 Mbit/s

95th percentile per-packet one-way delay: 110.779 ms

Loss rate: 1.39%

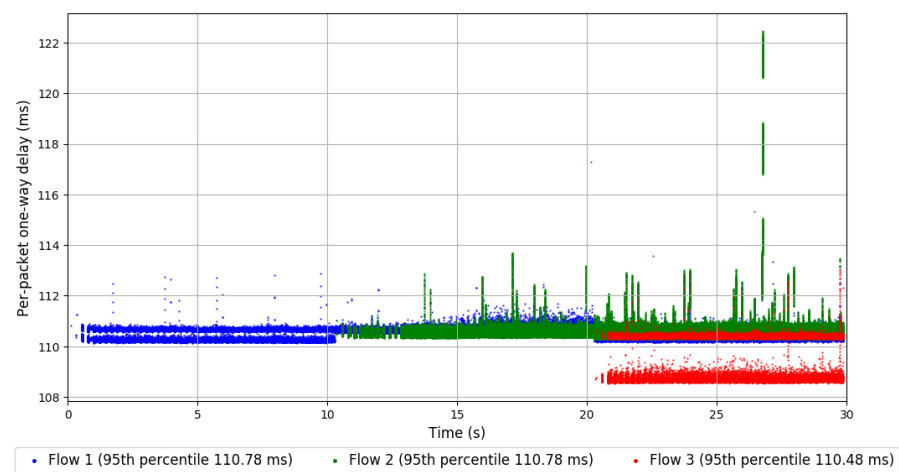
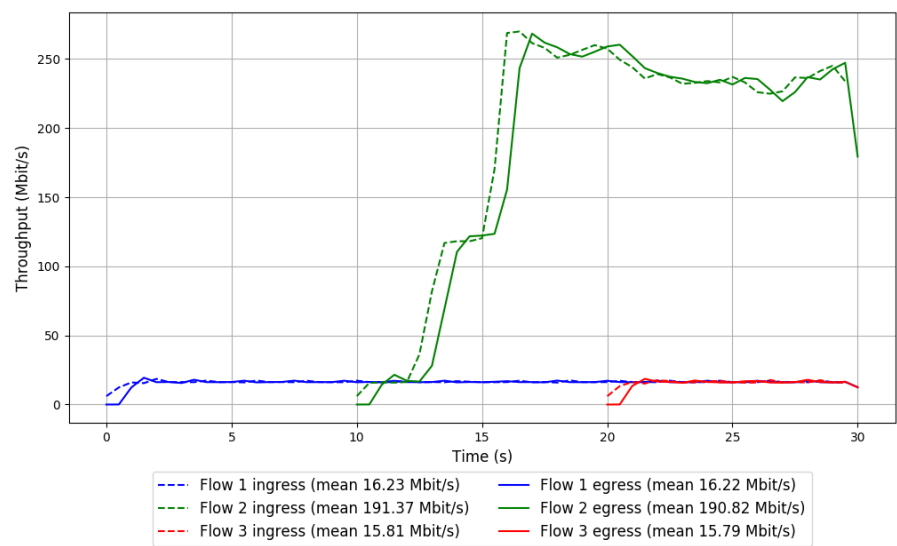
-- Flow 3:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 110.479 ms

Loss rate: 2.36%

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

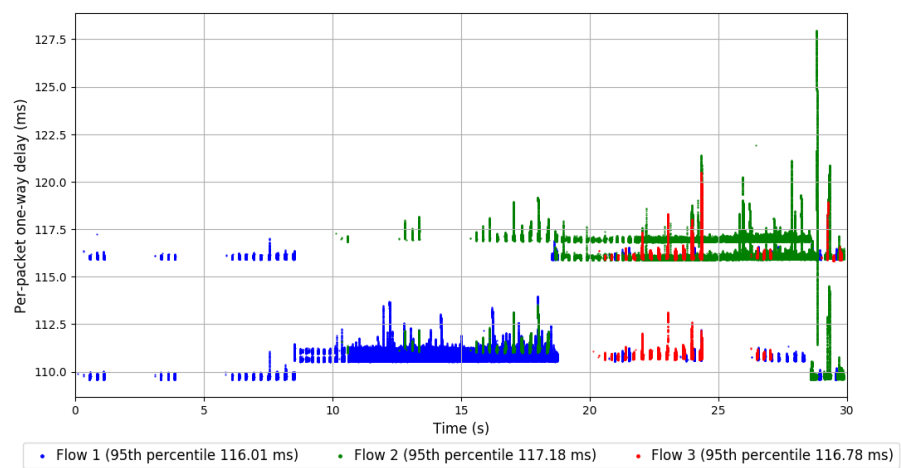
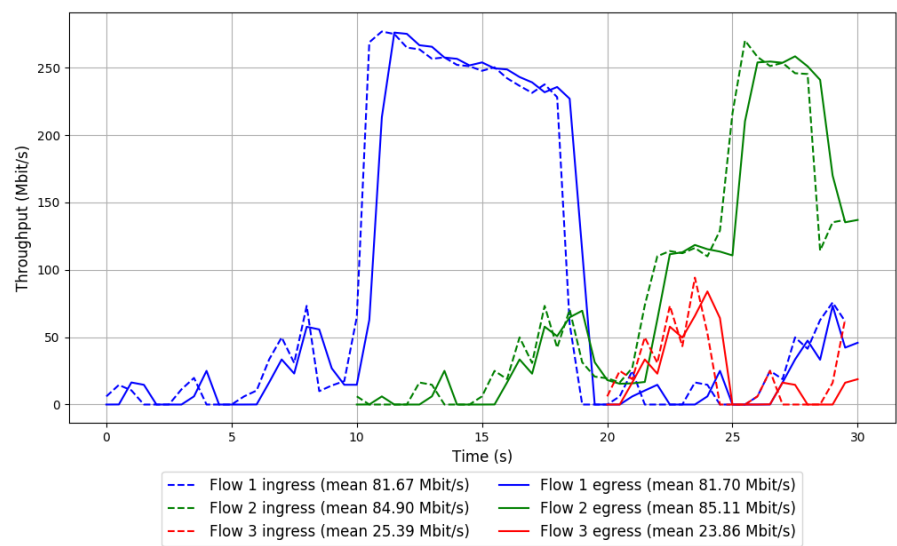


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 16:37:02  
End at: 2018-05-24 16:37:32  
Local clock offset: 0.071 ms  
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2018-05-24 21:30:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 145.30 Mbit/s  
95th percentile per-packet one-way delay: 117.013 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 81.70 Mbit/s  
95th percentile per-packet one-way delay: 116.012 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 85.11 Mbit/s  
95th percentile per-packet one-way delay: 117.176 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.86 Mbit/s  
95th percentile per-packet one-way delay: 116.775 ms  
Loss rate: 8.84%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 17:00:40

End at: 2018-05-24 17:01:10

Local clock offset: 0.06 ms

Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2018-05-24 21:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 26.38 Mbit/s

95th percentile per-packet one-way delay: 115.686 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 115.543 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 115.693 ms

Loss rate: 0.00%

-- Flow 3:

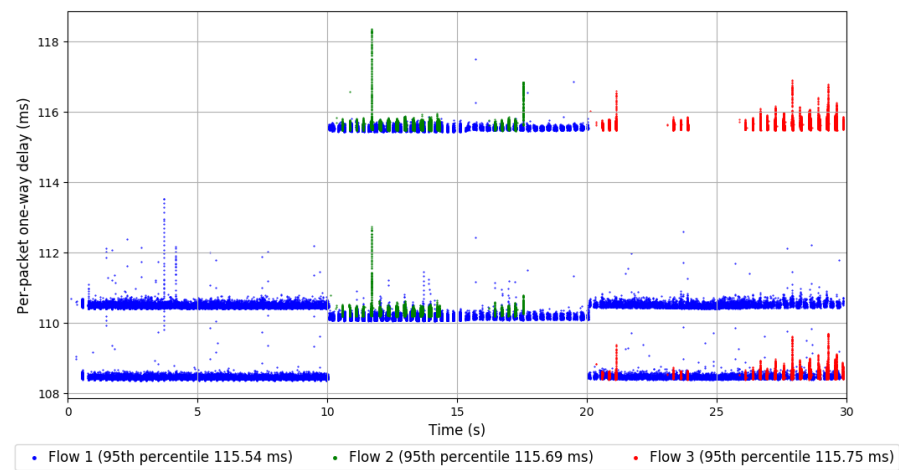
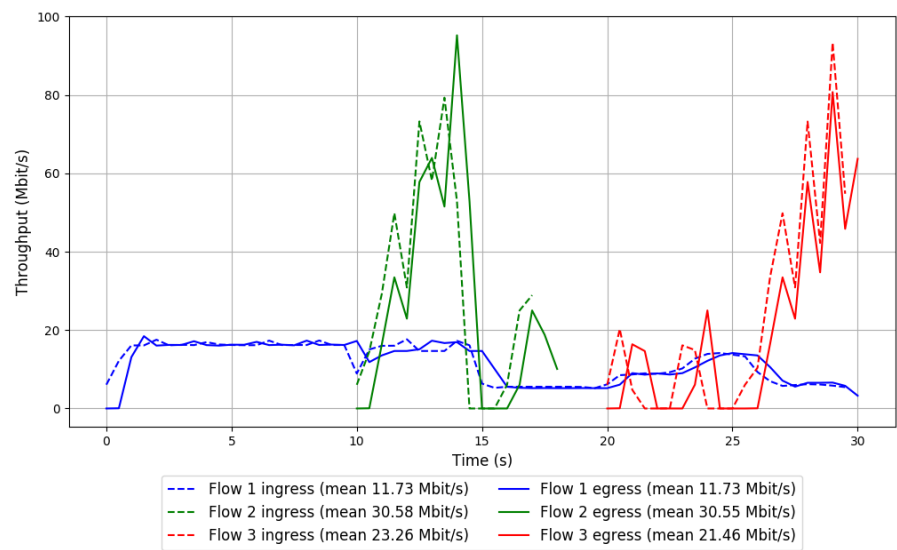
Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 115.749 ms

Loss rate: 8.45%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 17:24:06

End at: 2018-05-24 17:24:36

Local clock offset: -0.183 ms

Remote clock offset: -0.57 ms

# Below is generated by plot.py at 2018-05-24 21:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 116.699 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 116.322 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 116.162 ms

Loss rate: 0.00%

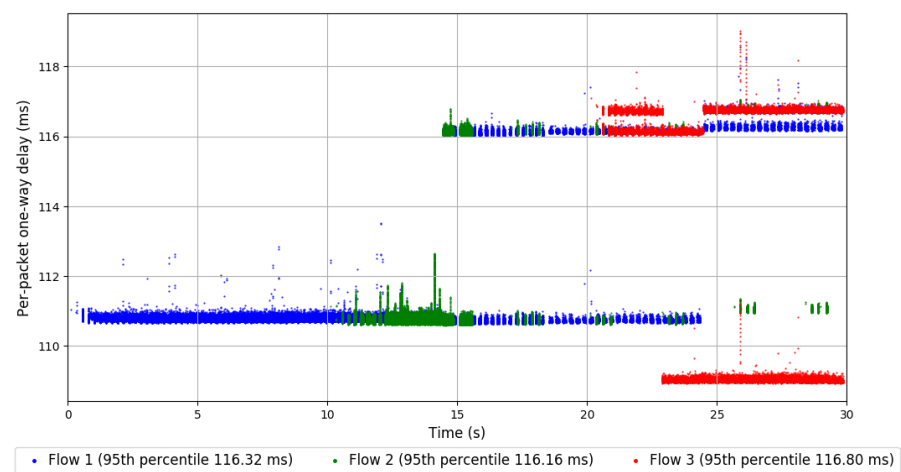
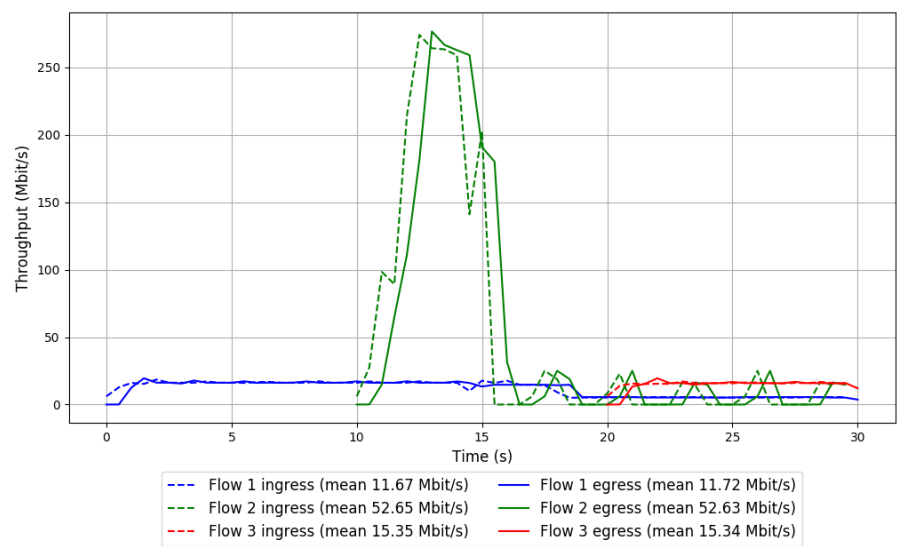
-- Flow 3:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 116.801 ms

Loss rate: 2.38%

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

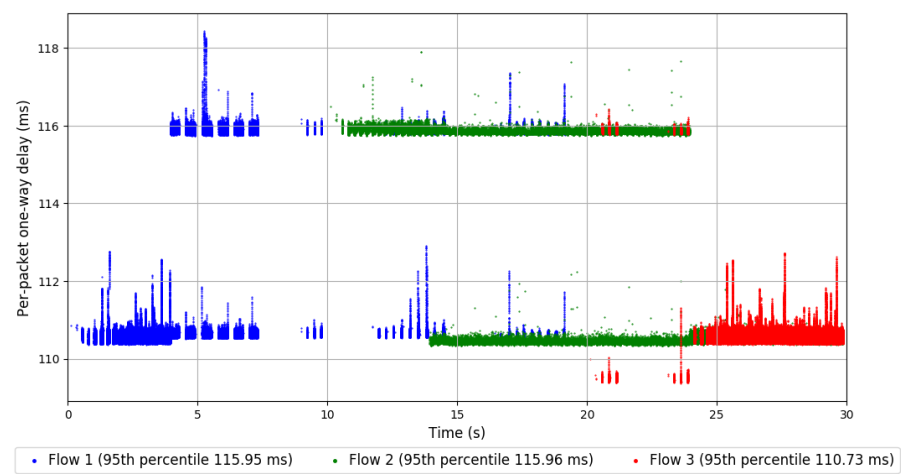
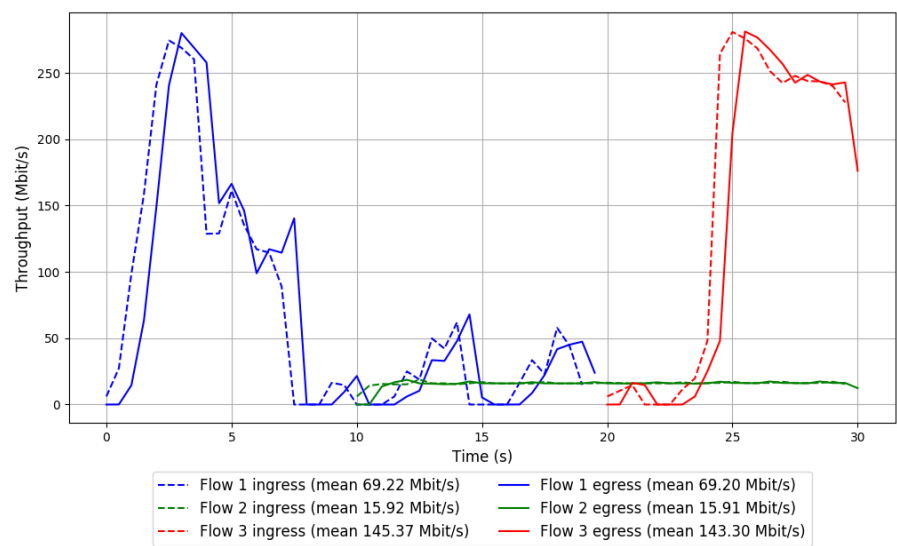


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 17:47:46  
End at: 2018-05-24 17:48:16  
Local clock offset: -0.043 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-05-24 21:30:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 101.72 Mbit/s  
95th percentile per-packet one-way delay: 115.916 ms  
Loss rate: 1.82%  
-- Flow 1:  
Average throughput: 69.20 Mbit/s  
95th percentile per-packet one-way delay: 115.949 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 15.91 Mbit/s  
95th percentile per-packet one-way delay: 115.961 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 143.30 Mbit/s  
95th percentile per-packet one-way delay: 110.733 ms  
Loss rate: 3.62%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 18:10:57

End at: 2018-05-24 18:11:27

Local clock offset: 0.122 ms

Remote clock offset: 0.158 ms

# Below is generated by plot.py at 2018-05-24 21:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 116.28 Mbit/s

95th percentile per-packet one-way delay: 116.472 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 116.463 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 176.03 Mbit/s

95th percentile per-packet one-way delay: 116.473 ms

Loss rate: 0.00%

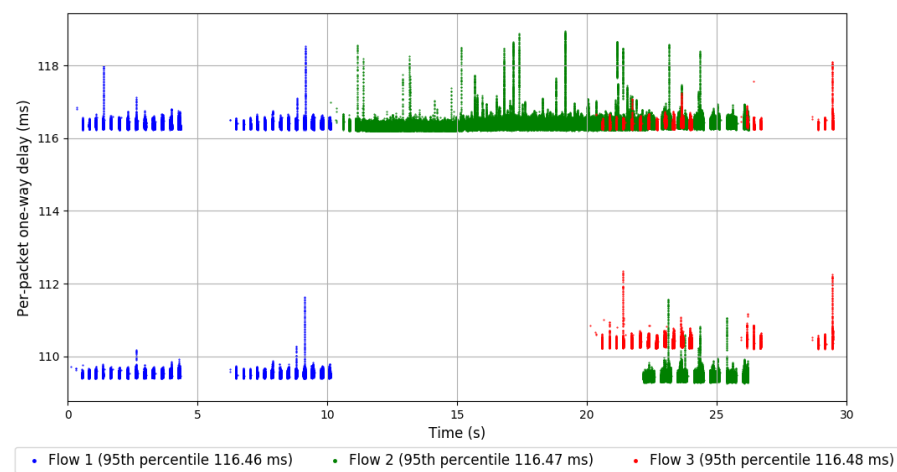
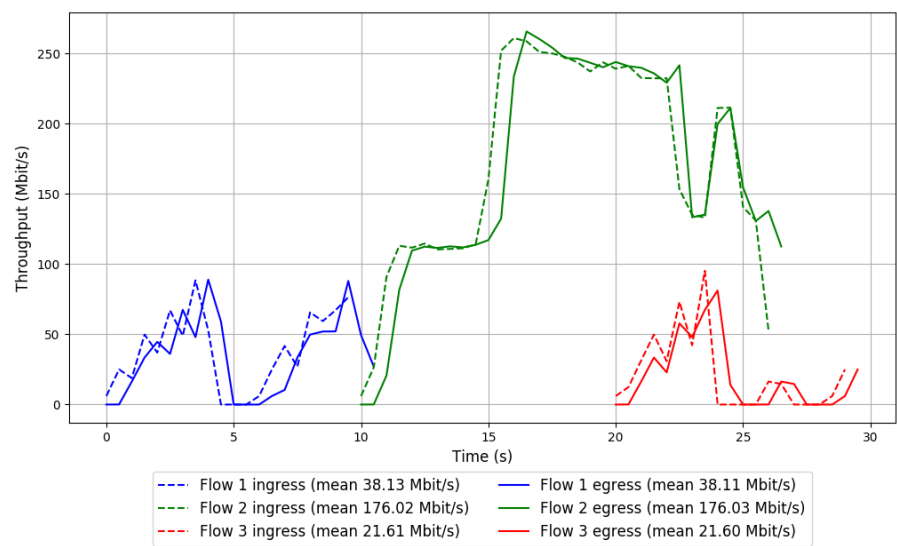
-- Flow 3:

Average throughput: 21.60 Mbit/s

95th percentile per-packet one-way delay: 116.477 ms

Loss rate: 0.00%

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



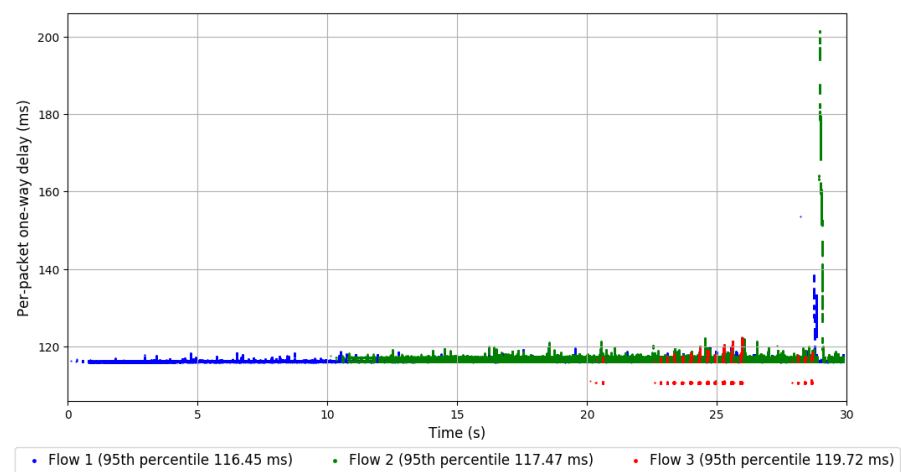
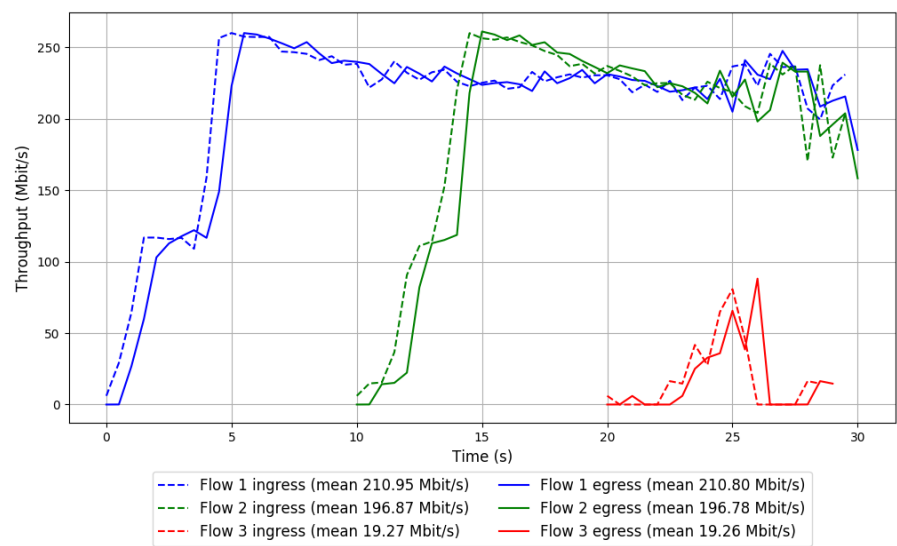
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 18:34:27  
End at: 2018-05-24 18:34:57  
Local clock offset: -0.097 ms  
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-05-24 21:37:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 346.91 Mbit/s  
95th percentile per-packet one-way delay: 117.182 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 210.80 Mbit/s  
95th percentile per-packet one-way delay: 116.449 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 196.78 Mbit/s  
95th percentile per-packet one-way delay: 117.468 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 19.26 Mbit/s  
95th percentile per-packet one-way delay: 119.715 ms  
Loss rate: 0.00%



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

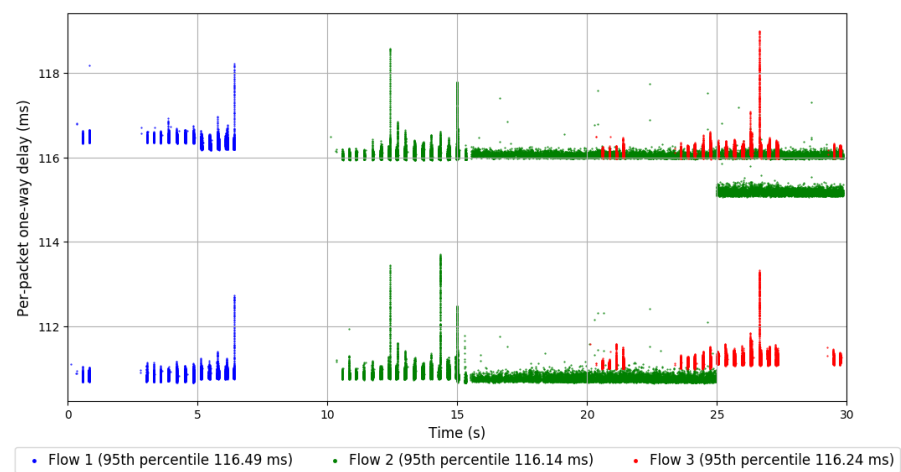
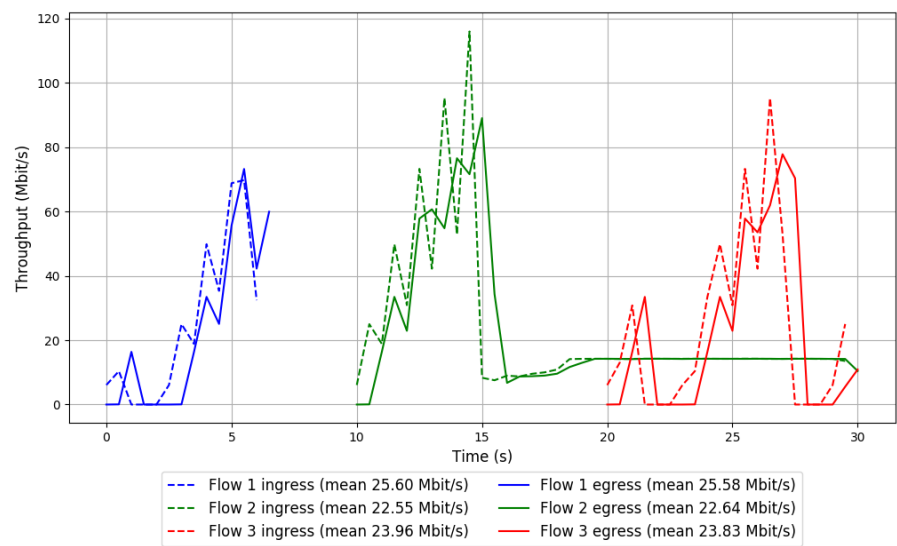


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 18:58:55  
End at: 2018-05-24 18:59:25  
Local clock offset: -0.159 ms  
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-05-24 21:37:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.18 Mbit/s  
95th percentile per-packet one-way delay: 116.411 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 25.58 Mbit/s  
95th percentile per-packet one-way delay: 116.494 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 22.64 Mbit/s  
95th percentile per-packet one-way delay: 116.144 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 23.83 Mbit/s  
95th percentile per-packet one-way delay: 116.238 ms  
Loss rate: 3.08%

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

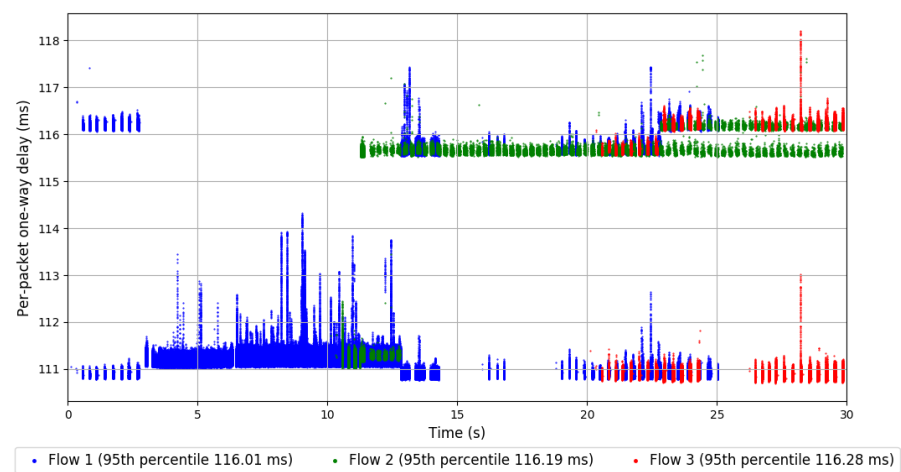
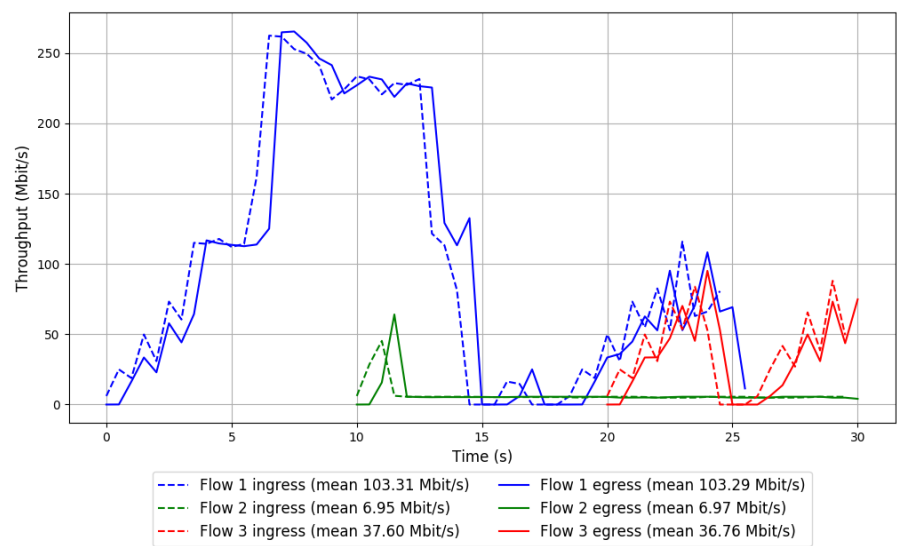


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 19:22:08  
End at: 2018-05-24 19:22:38  
Local clock offset: 0.101 ms  
Remote clock offset: -0.525 ms

# Below is generated by plot.py at 2018-05-24 21:37:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 103.18 Mbit/s  
95th percentile per-packet one-way delay: 116.196 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 103.29 Mbit/s  
95th percentile per-packet one-way delay: 116.010 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.97 Mbit/s  
95th percentile per-packet one-way delay: 116.194 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 36.76 Mbit/s  
95th percentile per-packet one-way delay: 116.285 ms  
Loss rate: 2.58%

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

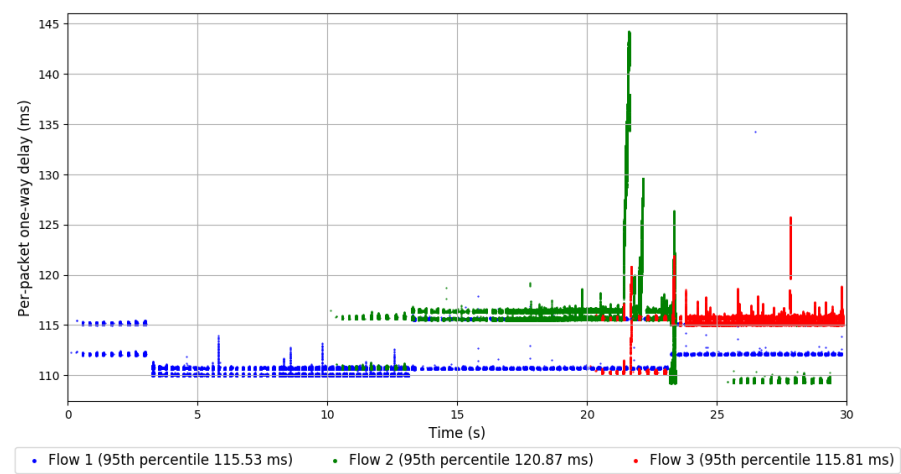
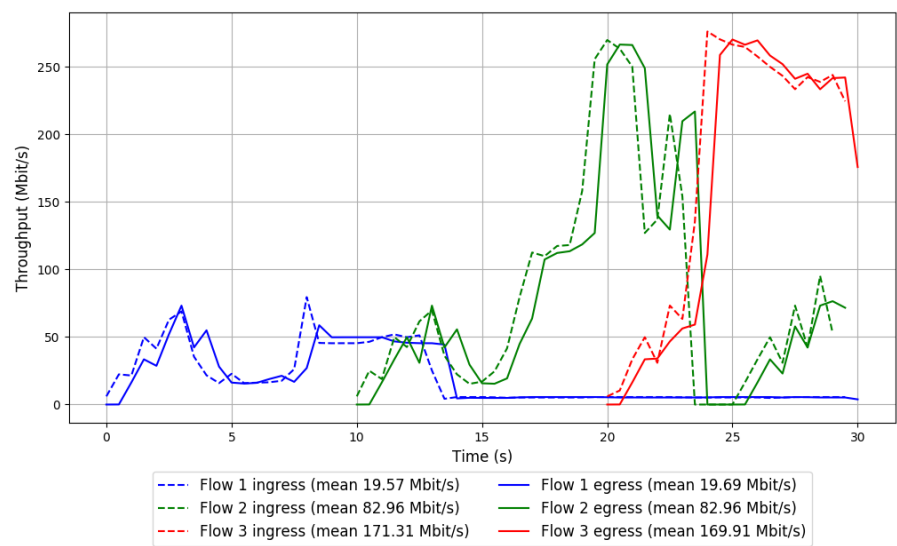


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 19:45:47  
End at: 2018-05-24 19:46:17  
Local clock offset: -0.223 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-05-24 21:37:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 128.92 Mbit/s  
95th percentile per-packet one-way delay: 116.529 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 19.69 Mbit/s  
95th percentile per-packet one-way delay: 115.530 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 82.96 Mbit/s  
95th percentile per-packet one-way delay: 120.869 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 169.91 Mbit/s  
95th percentile per-packet one-way delay: 115.807 ms  
Loss rate: 3.02%

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



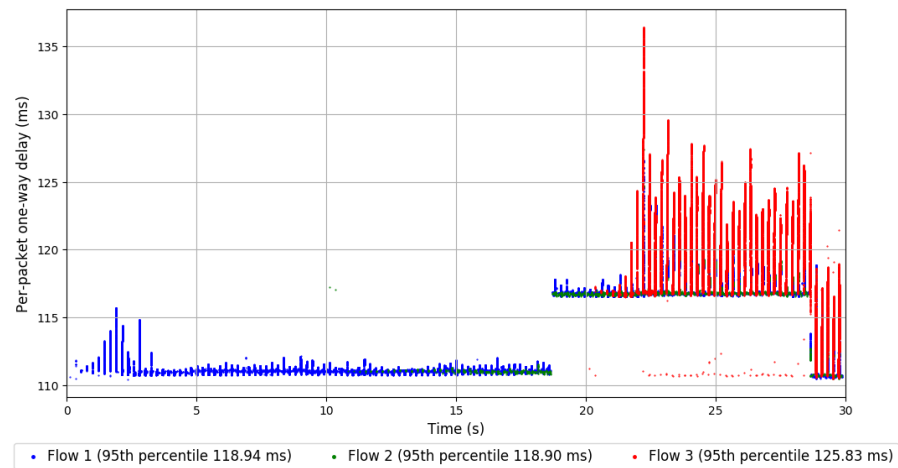
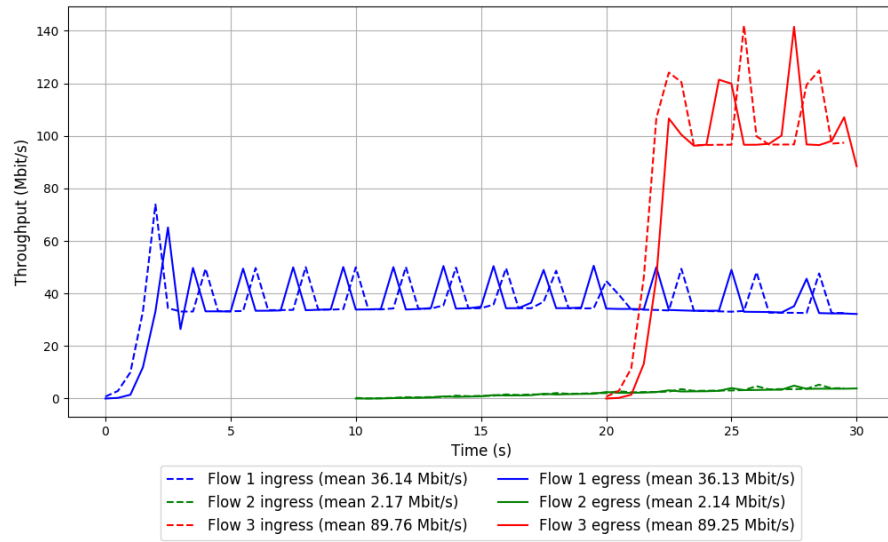
Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 16:17:22  
End at: 2018-05-24 16:17:52  
Local clock offset: 0.044 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2018-05-24 21:37:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.45 Mbit/s  
95th percentile per-packet one-way delay: 124.341 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 36.13 Mbit/s  
95th percentile per-packet one-way delay: 118.941 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 118.900 ms  
Loss rate: 2.55%  
-- Flow 3:  
Average throughput: 89.25 Mbit/s  
95th percentile per-packet one-way delay: 125.828 ms  
Loss rate: 2.75%



## Run 1: Report of TCP Vegas — Data Link

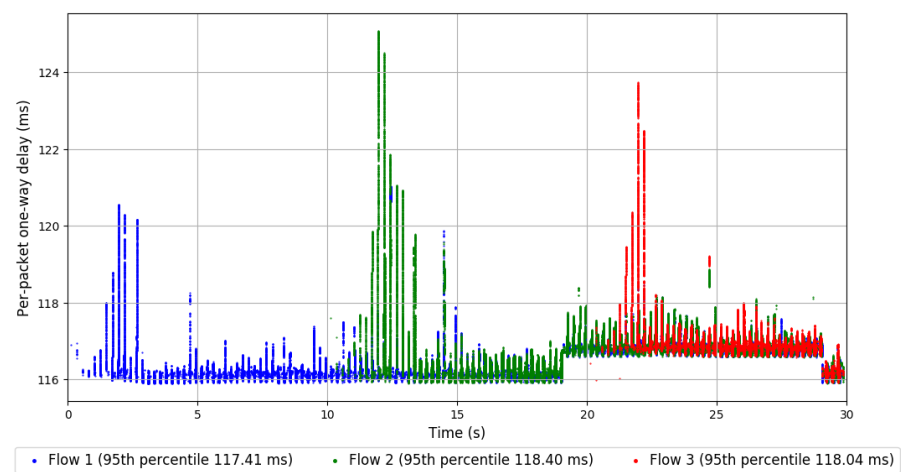
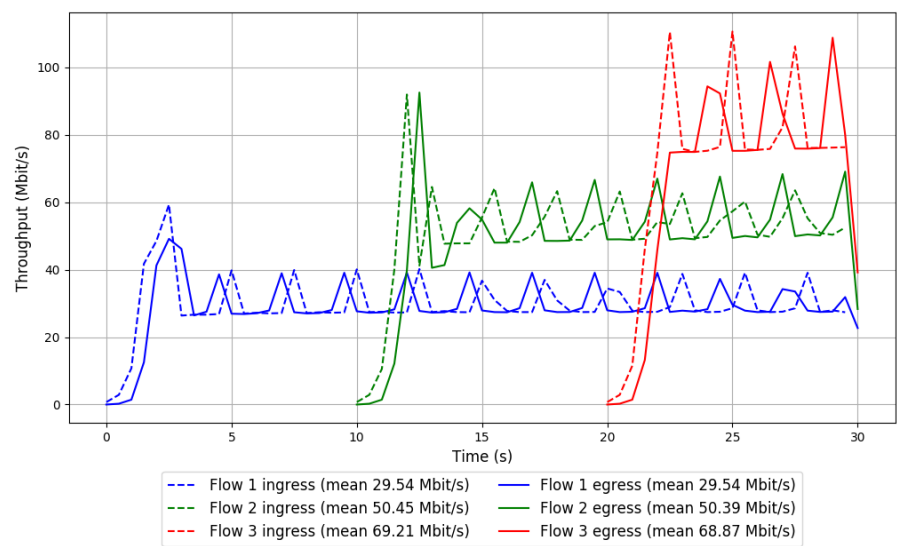


Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 16:41:31  
End at: 2018-05-24 16:42:01  
Local clock offset: 0.159 ms  
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-05-24 21:37:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.50 Mbit/s  
95th percentile per-packet one-way delay: 117.870 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 29.54 Mbit/s  
95th percentile per-packet one-way delay: 117.413 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 50.39 Mbit/s  
95th percentile per-packet one-way delay: 118.401 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 68.87 Mbit/s  
95th percentile per-packet one-way delay: 118.037 ms  
Loss rate: 2.76%

Run 2: Report of TCP Vegas — Data Link

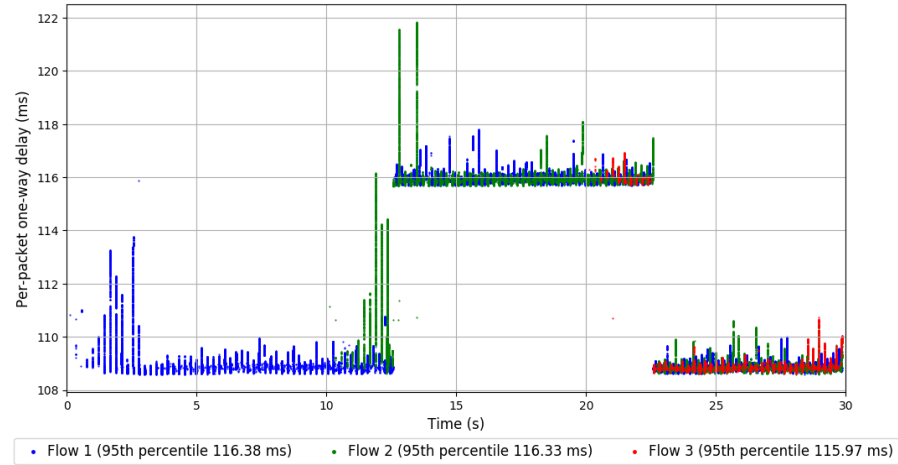
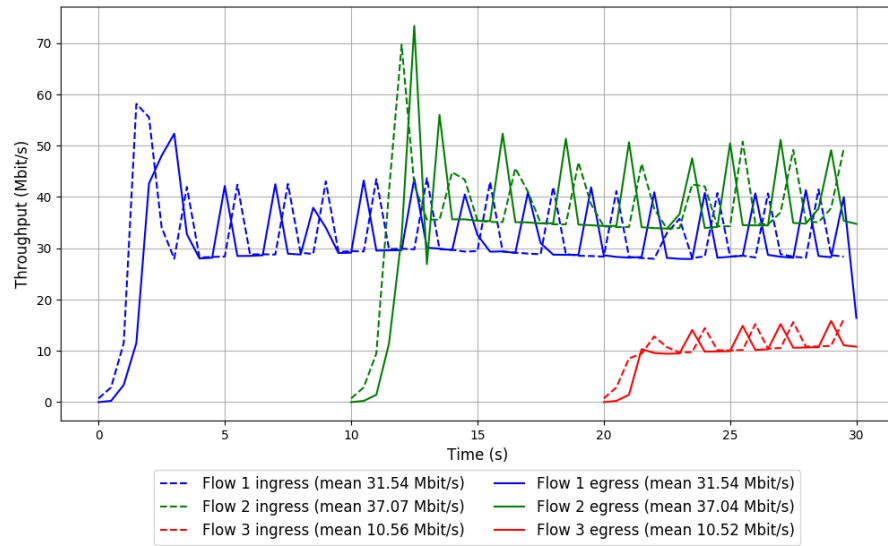


Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 17:04:58  
End at: 2018-05-24 17:05:28  
Local clock offset: -0.146 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.55 Mbit/s  
95th percentile per-packet one-way delay: 116.341 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 31.54 Mbit/s  
95th percentile per-packet one-way delay: 116.382 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 37.04 Mbit/s  
95th percentile per-packet one-way delay: 116.328 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 10.52 Mbit/s  
95th percentile per-packet one-way delay: 115.969 ms  
Loss rate: 2.63%

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

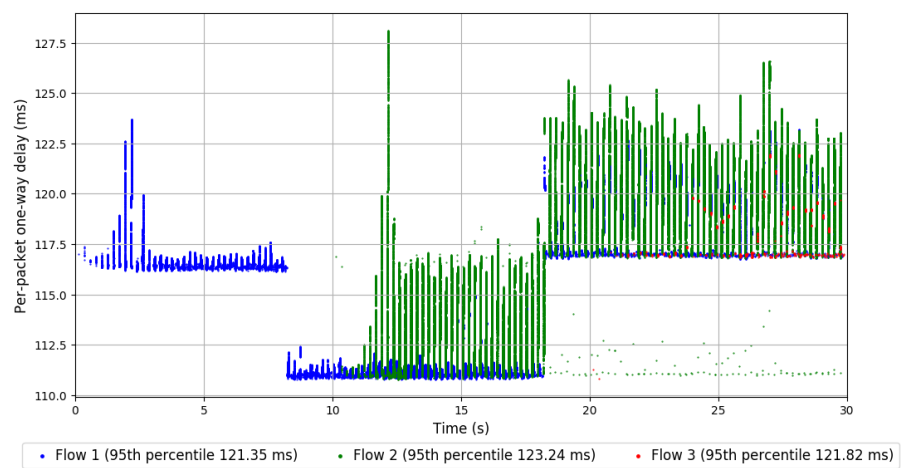
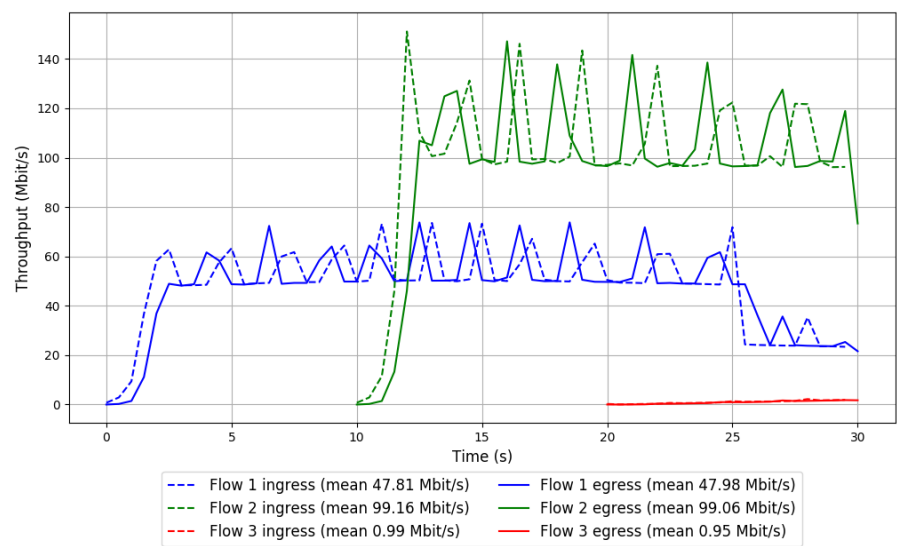


Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 17:28:22  
End at: 2018-05-24 17:28:52  
Local clock offset: -0.003 ms  
Remote clock offset: -0.504 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 113.57 Mbit/s  
95th percentile per-packet one-way delay: 122.752 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 47.98 Mbit/s  
95th percentile per-packet one-way delay: 121.346 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 99.06 Mbit/s  
95th percentile per-packet one-way delay: 123.239 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 0.95 Mbit/s  
95th percentile per-packet one-way delay: 121.817 ms  
Loss rate: 5.95%

Run 4: Report of TCP Vegas — Data Link



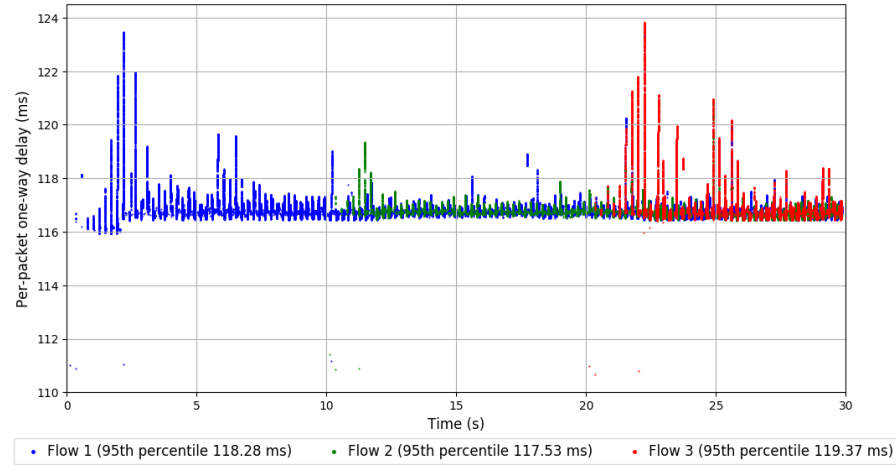
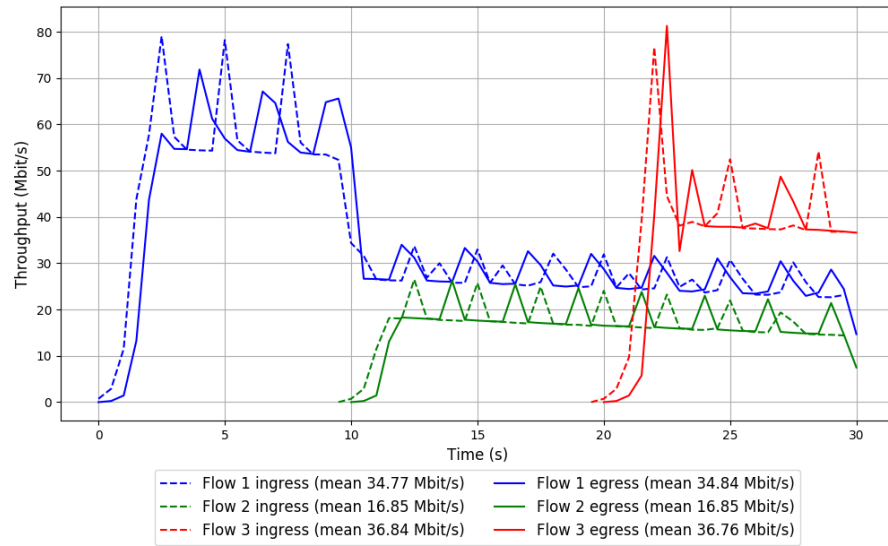
Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 17:52:08  
End at: 2018-05-24 17:52:38  
Local clock offset: -0.008 ms  
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.06 Mbit/s  
95th percentile per-packet one-way delay: 118.512 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 34.84 Mbit/s  
95th percentile per-packet one-way delay: 118.279 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 16.85 Mbit/s  
95th percentile per-packet one-way delay: 117.525 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 36.76 Mbit/s  
95th percentile per-packet one-way delay: 119.368 ms  
Loss rate: 2.50%



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

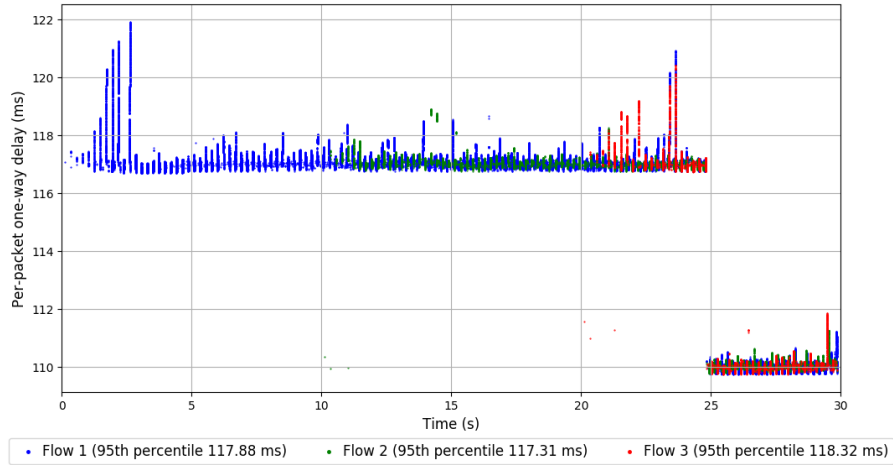
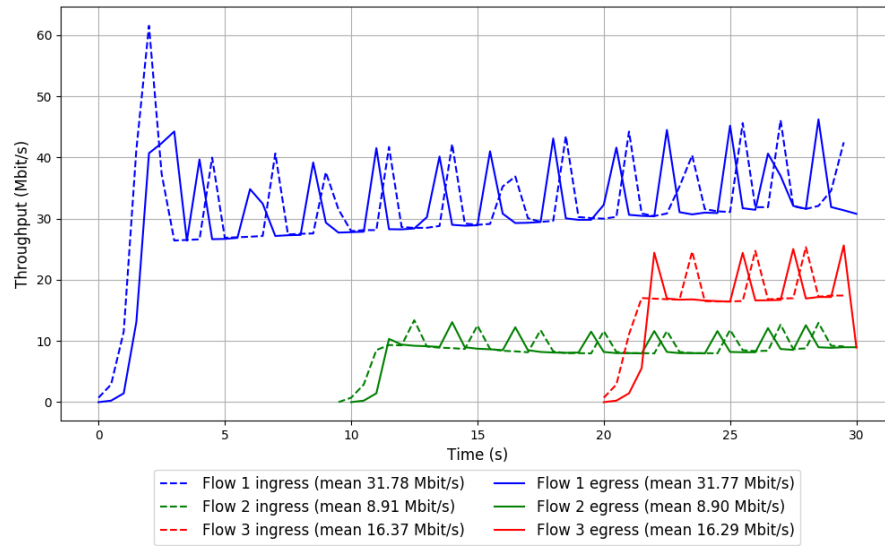


Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 18:15:26  
End at: 2018-05-24 18:15:56  
Local clock offset: 0.223 ms  
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.00 Mbit/s  
95th percentile per-packet one-way delay: 117.829 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 31.77 Mbit/s  
95th percentile per-packet one-way delay: 117.877 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 8.90 Mbit/s  
95th percentile per-packet one-way delay: 117.314 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 16.29 Mbit/s  
95th percentile per-packet one-way delay: 118.316 ms  
Loss rate: 2.67%

# Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 18:39:14

End at: 2018-05-24 18:39:44

Local clock offset: -0.042 ms

Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-05-24 21:37:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 52.24 Mbit/s

95th percentile per-packet one-way delay: 116.666 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 29.90 Mbit/s

95th percentile per-packet one-way delay: 116.814 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 116.609 ms

Loss rate: 1.20%

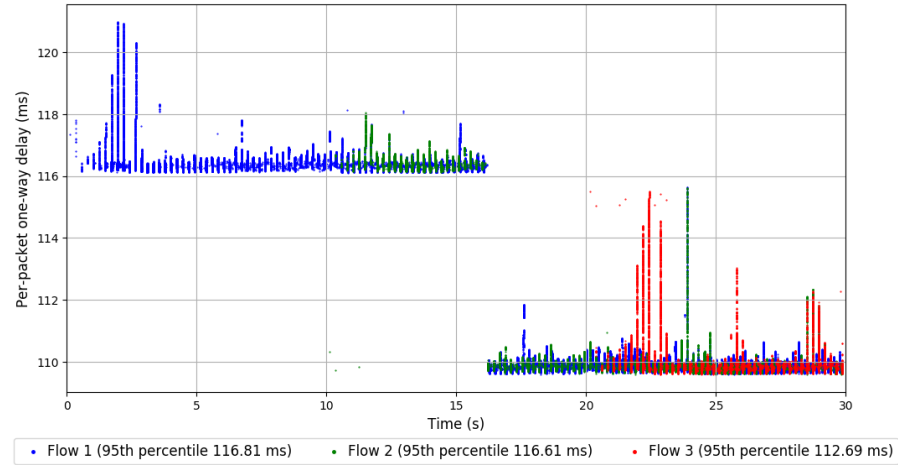
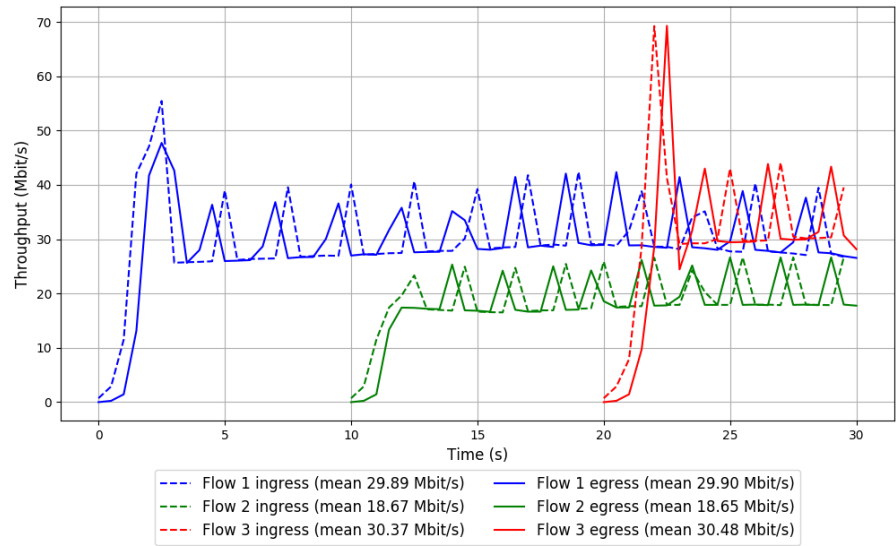
-- Flow 3:

Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 112.691 ms

Loss rate: 1.90%

# Run 7: Report of TCP Vegas — Data Link

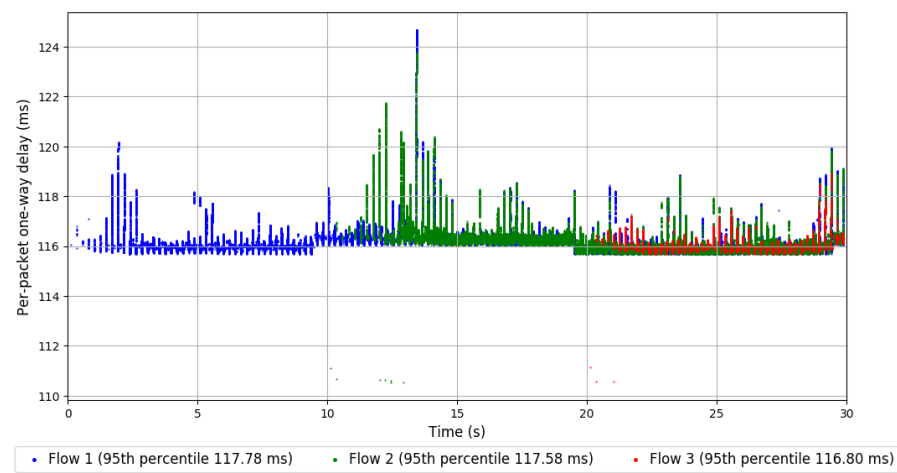
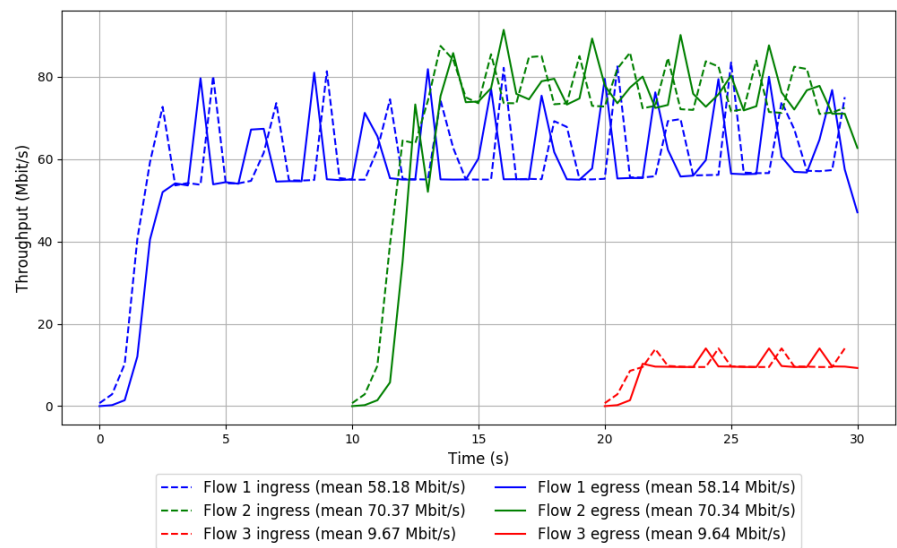


Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 19:03:11  
End at: 2018-05-24 19:03:41  
Local clock offset: 0.069 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 108.00 Mbit/s  
95th percentile per-packet one-way delay: 117.677 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 58.14 Mbit/s  
95th percentile per-packet one-way delay: 117.781 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 70.34 Mbit/s  
95th percentile per-packet one-way delay: 117.578 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 9.64 Mbit/s  
95th percentile per-packet one-way delay: 116.803 ms  
Loss rate: 2.47%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 19:26:29

End at: 2018-05-24 19:26:59

Local clock offset: 0.068 ms

Remote clock offset: -0.59 ms

# Below is generated by plot.py at 2018-05-24 21:37:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.48 Mbit/s

95th percentile per-packet one-way delay: 116.919 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 116.964 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 9.54 Mbit/s

95th percentile per-packet one-way delay: 116.725 ms

Loss rate: 1.21%

-- Flow 3:

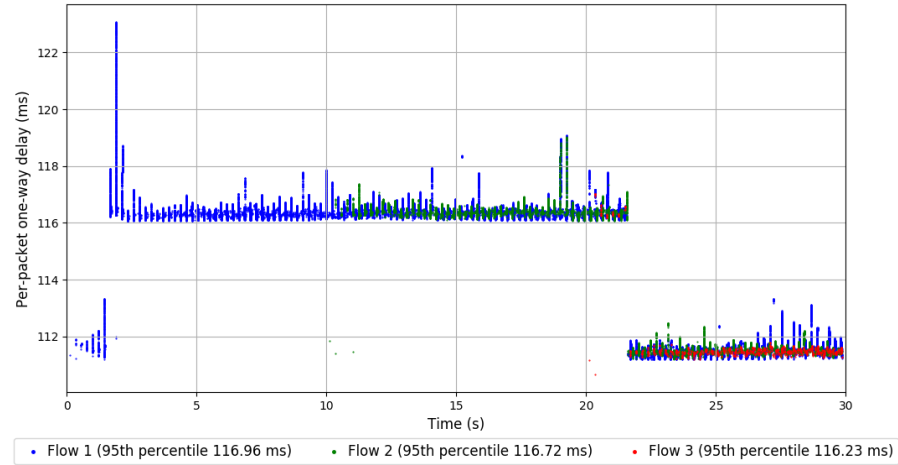
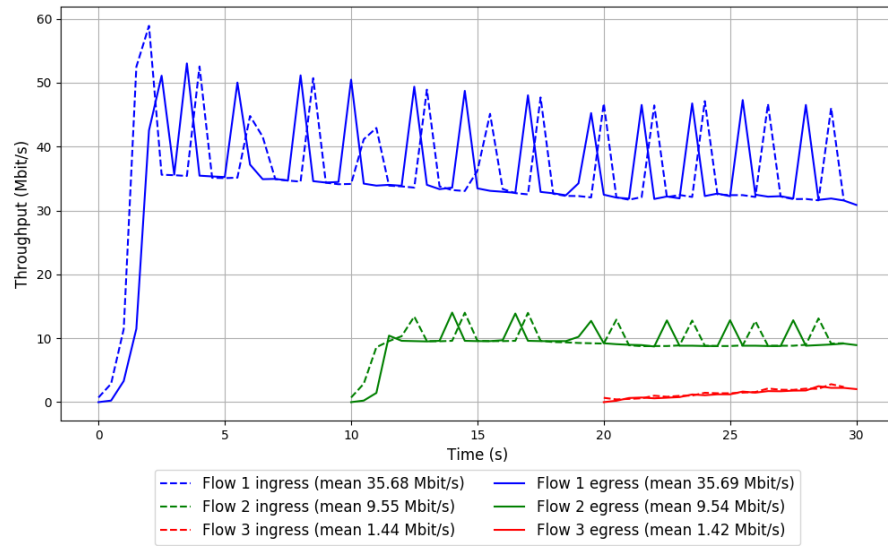
Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 116.233 ms

Loss rate: 4.09%



# Run 9: Report of TCP Vegas — Data Link

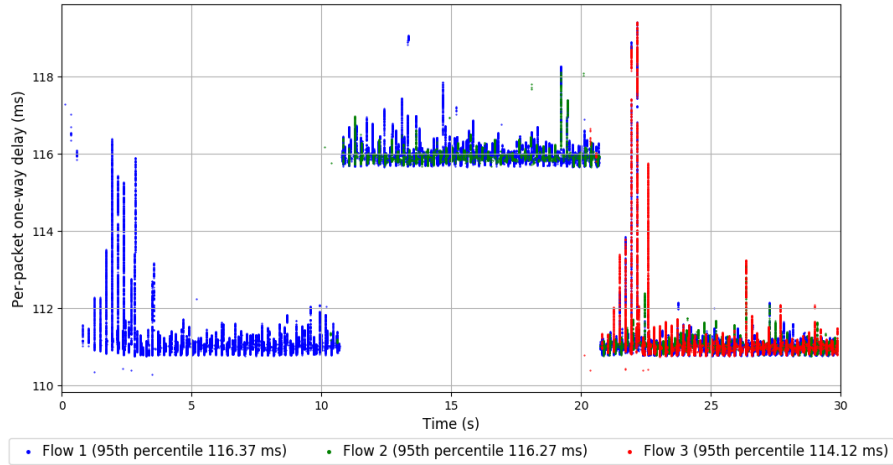
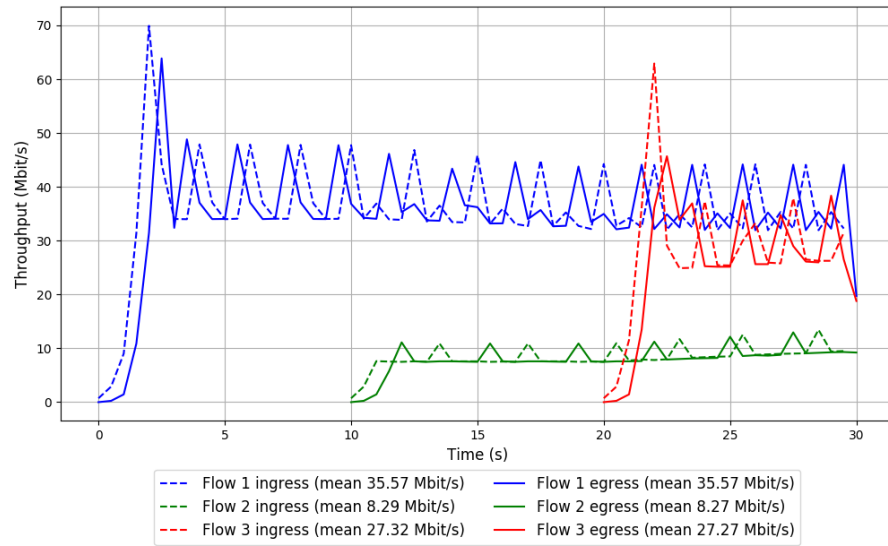


Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 19:50:20  
End at: 2018-05-24 19:50:50  
Local clock offset: -0.074 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.97 Mbit/s  
95th percentile per-packet one-way delay: 116.317 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 35.57 Mbit/s  
95th percentile per-packet one-way delay: 116.369 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 8.27 Mbit/s  
95th percentile per-packet one-way delay: 116.273 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 27.27 Mbit/s  
95th percentile per-packet one-way delay: 114.125 ms  
Loss rate: 2.38%

# Run 10: Report of TCP Vegas — Data Link

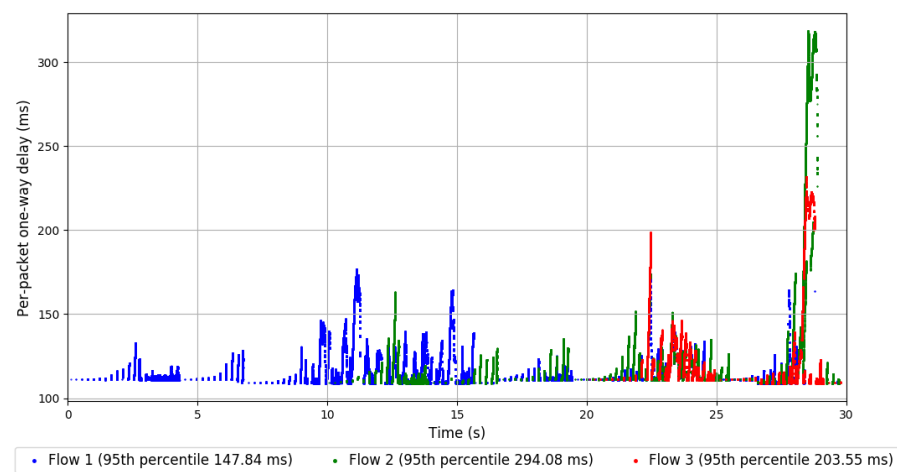
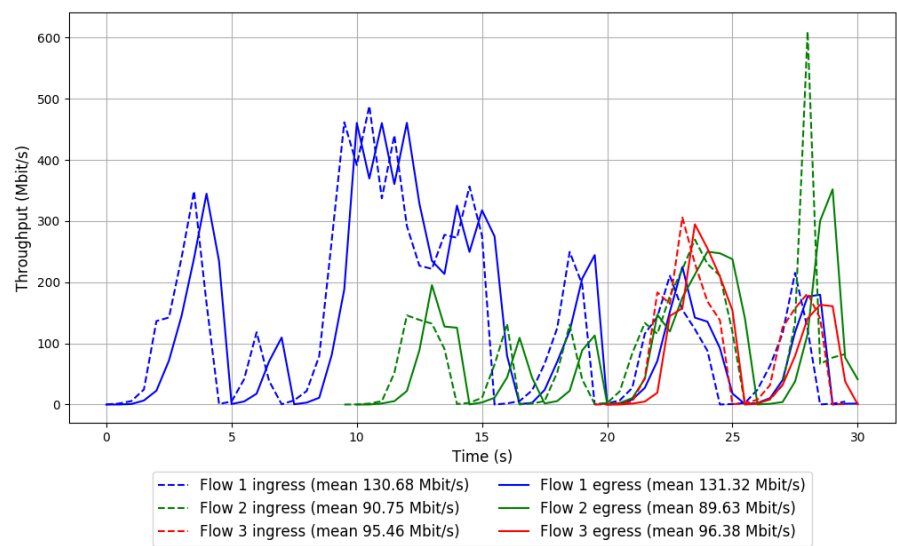


Run 1: Statistics of Verus

Start at: 2018-05-24 16:05:54  
End at: 2018-05-24 16:06:24  
Local clock offset: 0.081 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 221.75 Mbit/s  
95th percentile per-packet one-way delay: 170.334 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 131.32 Mbit/s  
95th percentile per-packet one-way delay: 147.837 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 89.63 Mbit/s  
95th percentile per-packet one-way delay: 294.085 ms  
Loss rate: 2.34%  
-- Flow 3:  
Average throughput: 96.38 Mbit/s  
95th percentile per-packet one-way delay: 203.554 ms  
Loss rate: 1.30%

Run 1: Report of Verus — Data Link

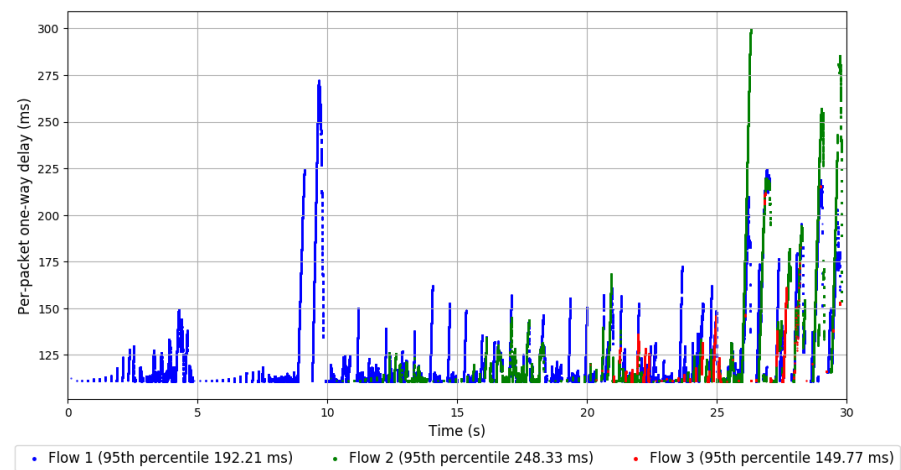
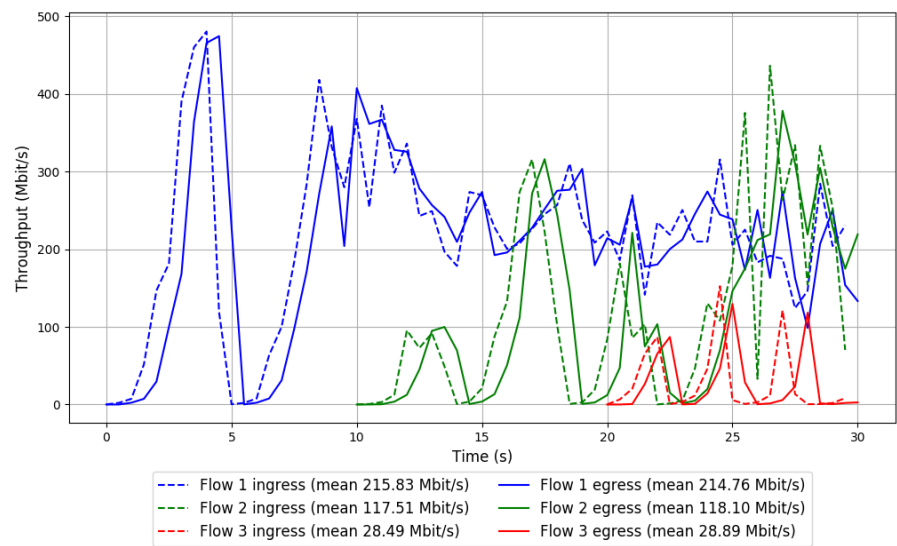


Run 2: Statistics of Verus

Start at: 2018-05-24 16:30:01  
End at: 2018-05-24 16:30:31  
Local clock offset: -0.007 ms  
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 301.96 Mbit/s  
95th percentile per-packet one-way delay: 214.163 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 214.76 Mbit/s  
95th percentile per-packet one-way delay: 192.206 ms  
Loss rate: 1.59%  
-- Flow 2:  
Average throughput: 118.10 Mbit/s  
95th percentile per-packet one-way delay: 248.333 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 28.89 Mbit/s  
95th percentile per-packet one-way delay: 149.767 ms  
Loss rate: 0.99%

Run 2: Report of Verus — Data Link



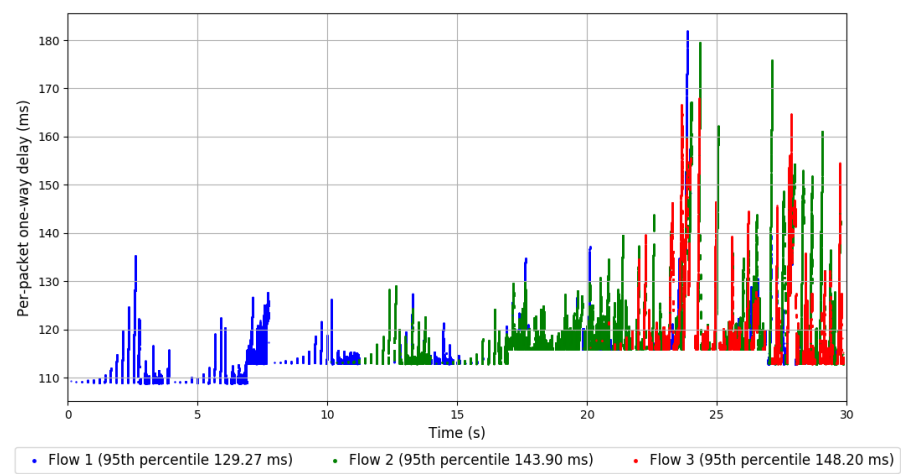
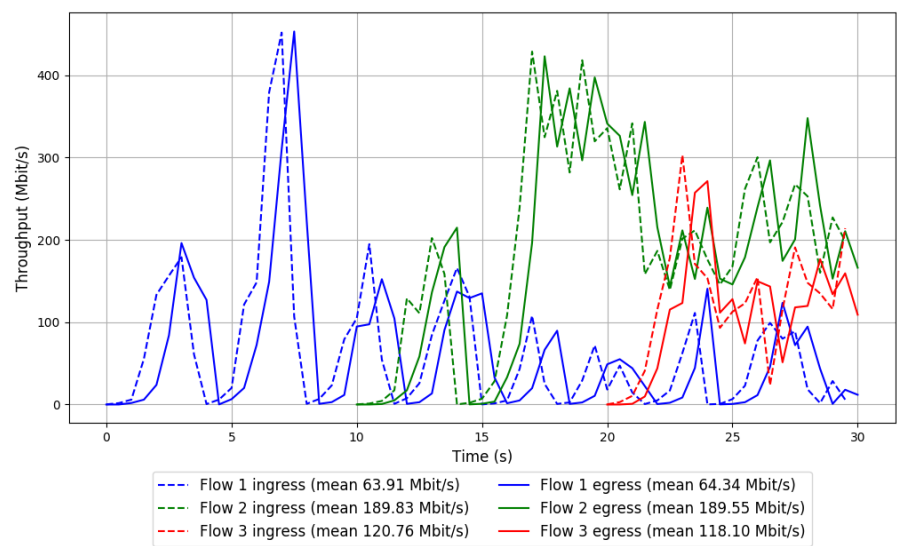
Run 3: Statistics of Verus

Start at: 2018-05-24 16:53:43  
End at: 2018-05-24 16:54:13  
Local clock offset: 0.06 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 228.69 Mbit/s  
95th percentile per-packet one-way delay: 143.196 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 64.34 Mbit/s  
95th percentile per-packet one-way delay: 129.266 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 189.55 Mbit/s  
95th percentile per-packet one-way delay: 143.901 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 118.10 Mbit/s  
95th percentile per-packet one-way delay: 148.200 ms  
Loss rate: 4.37%



Run 3: Report of Verus — Data Link

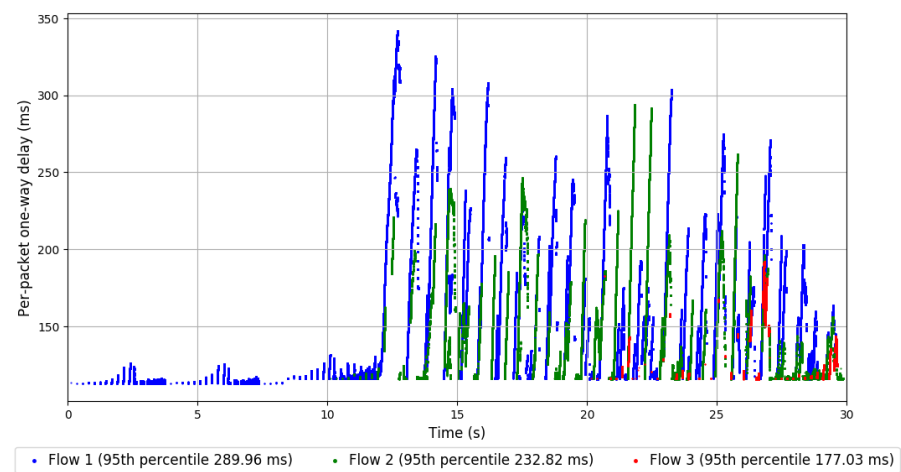
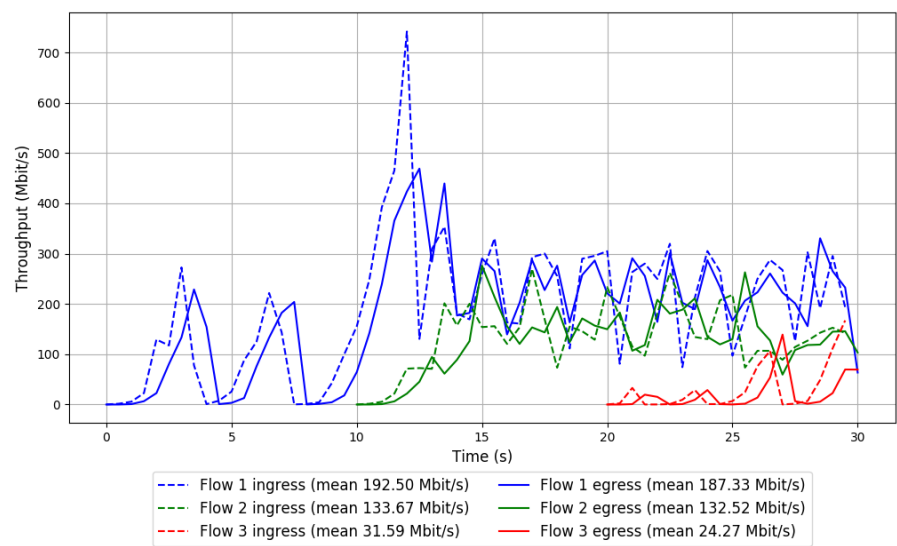


Run 4: Statistics of Verus

Start at: 2018-05-24 17:17:02  
End at: 2018-05-24 17:17:32  
Local clock offset: 0.071 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-05-24 21:37:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 282.65 Mbit/s  
95th percentile per-packet one-way delay: 268.698 ms  
Loss rate: 3.93%  
-- Flow 1:  
Average throughput: 187.33 Mbit/s  
95th percentile per-packet one-way delay: 289.962 ms  
Loss rate: 3.60%  
-- Flow 2:  
Average throughput: 132.52 Mbit/s  
95th percentile per-packet one-way delay: 232.823 ms  
Loss rate: 1.98%  
-- Flow 3:  
Average throughput: 24.27 Mbit/s  
95th percentile per-packet one-way delay: 177.033 ms  
Loss rate: 26.65%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-24 17:40:42

End at: 2018-05-24 17:41:12

Local clock offset: 0.232 ms

Remote clock offset: -0.48 ms

# Below is generated by plot.py at 2018-05-24 21:37:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 283.19 Mbit/s

95th percentile per-packet one-way delay: 239.303 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 178.55 Mbit/s

95th percentile per-packet one-way delay: 203.101 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 141.75 Mbit/s

95th percentile per-packet one-way delay: 327.740 ms

Loss rate: 5.78%

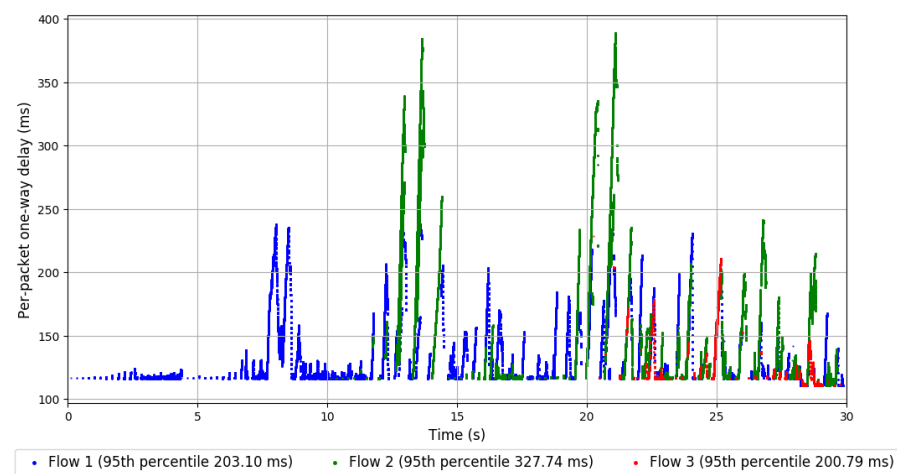
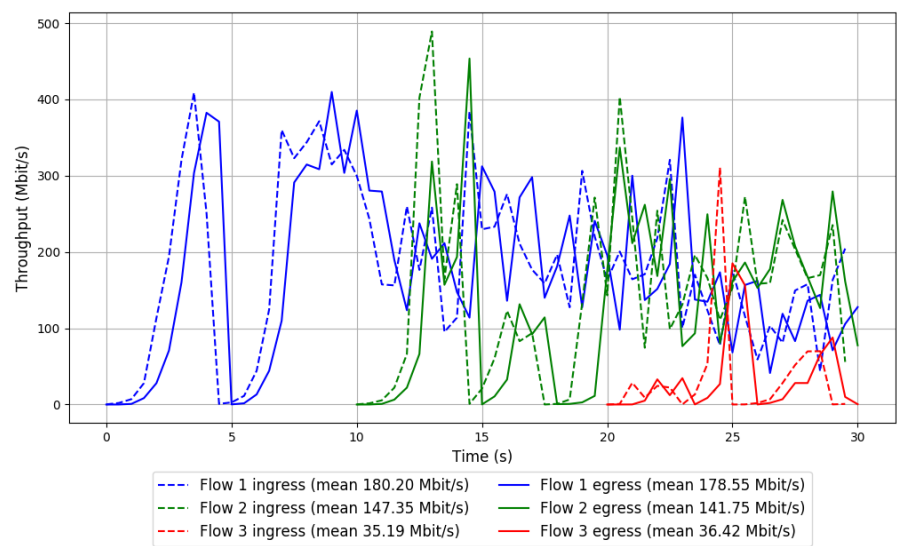
-- Flow 3:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 200.794 ms

Loss rate: 0.08%

Run 5: Report of Verus — Data Link

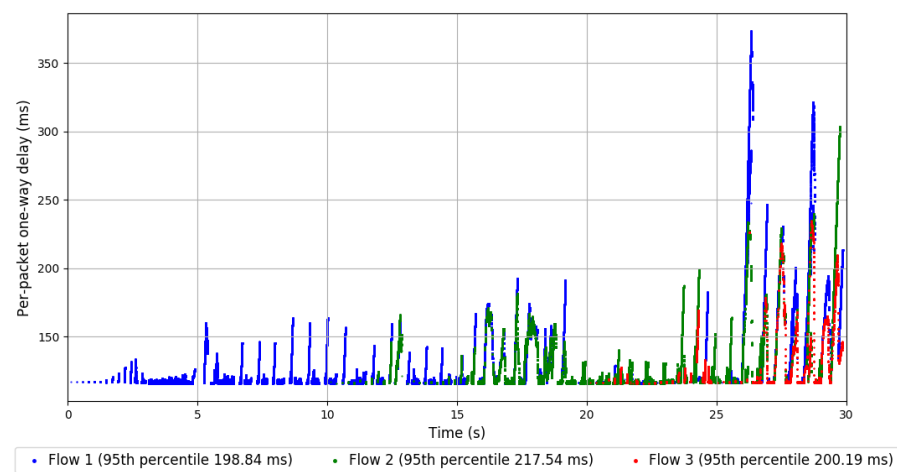
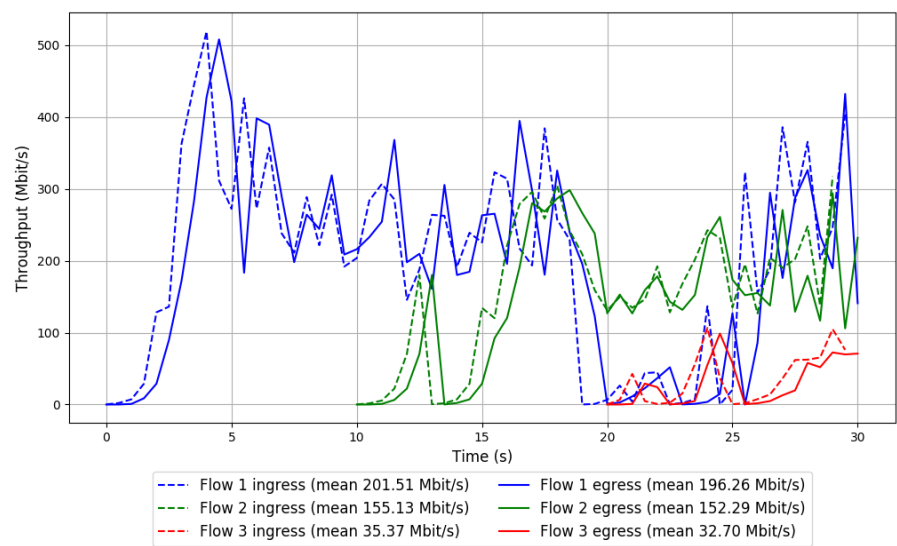


Run 6: Statistics of Verus

Start at: 2018-05-24 18:03:57  
End at: 2018-05-24 18:04:27  
Local clock offset: -0.088 ms  
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2018-05-24 21:37:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 307.40 Mbit/s  
95th percentile per-packet one-way delay: 207.149 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 196.26 Mbit/s  
95th percentile per-packet one-way delay: 198.839 ms  
Loss rate: 3.35%  
-- Flow 2:  
Average throughput: 152.29 Mbit/s  
95th percentile per-packet one-way delay: 217.540 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 32.70 Mbit/s  
95th percentile per-packet one-way delay: 200.192 ms  
Loss rate: 9.71%

Run 6: Report of Verus — Data Link



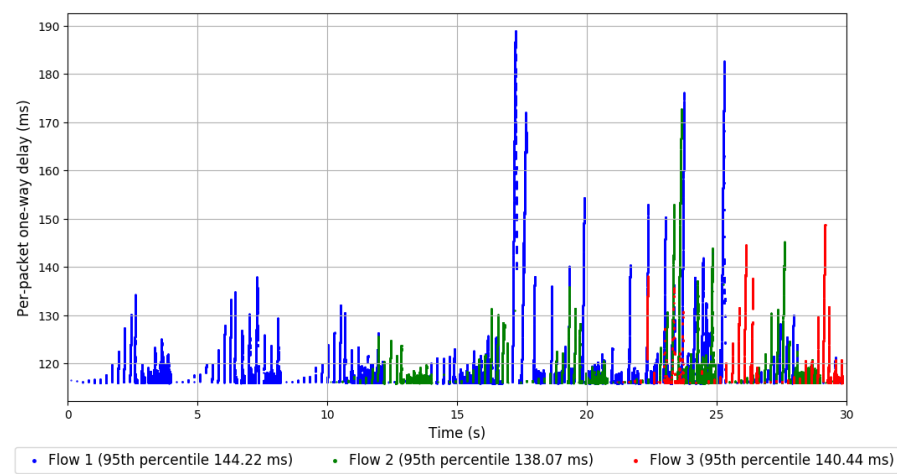
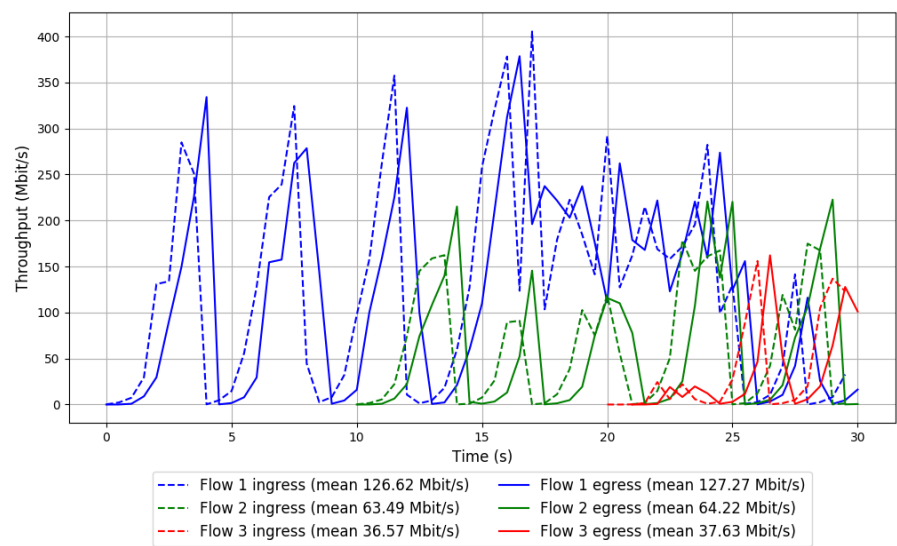
Run 7: Statistics of Verus

Start at: 2018-05-24 18:27:30  
End at: 2018-05-24 18:28:00  
Local clock offset: -0.041 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-05-24 21:37:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 180.27 Mbit/s  
95th percentile per-packet one-way delay: 141.179 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 127.27 Mbit/s  
95th percentile per-packet one-way delay: 144.225 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 64.22 Mbit/s  
95th percentile per-packet one-way delay: 138.069 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 140.437 ms  
Loss rate: 9.85%



Run 7: Report of Verus — Data Link

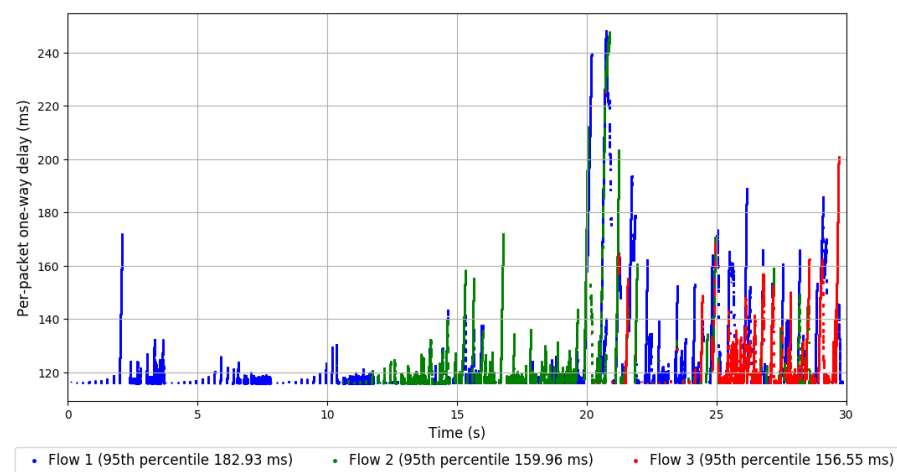
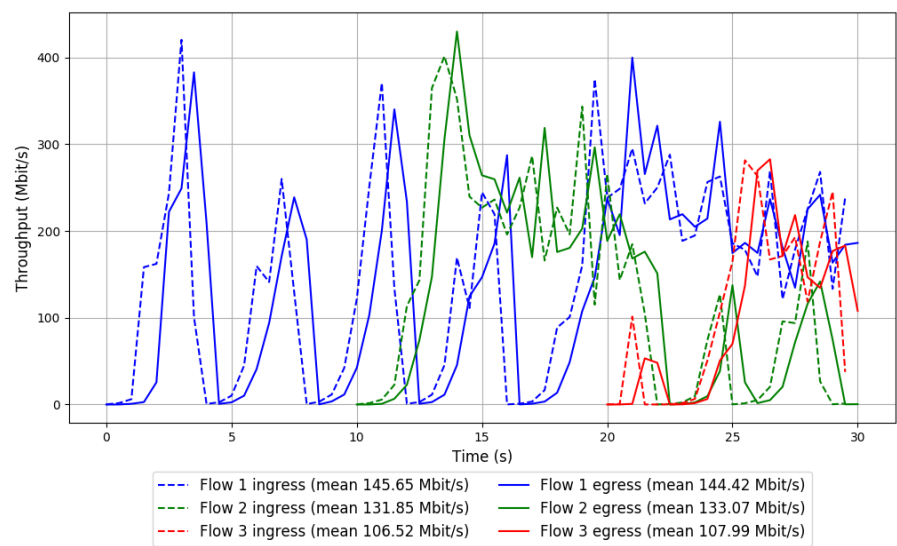


Run 8: Statistics of Verus

Start at: 2018-05-24 18:51:56  
End at: 2018-05-24 18:52:26  
Local clock offset: -0.143 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-05-24 21:39:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 266.47 Mbit/s  
95th percentile per-packet one-way delay: 171.708 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 144.42 Mbit/s  
95th percentile per-packet one-way delay: 182.932 ms  
Loss rate: 1.59%  
-- Flow 2:  
Average throughput: 133.07 Mbit/s  
95th percentile per-packet one-way delay: 159.962 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 107.99 Mbit/s  
95th percentile per-packet one-way delay: 156.552 ms  
Loss rate: 1.79%

Run 8: Report of Verus — Data Link

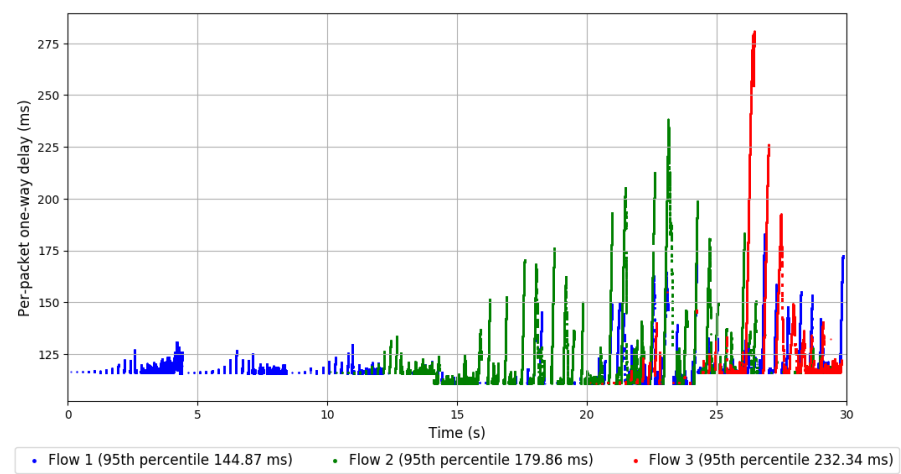
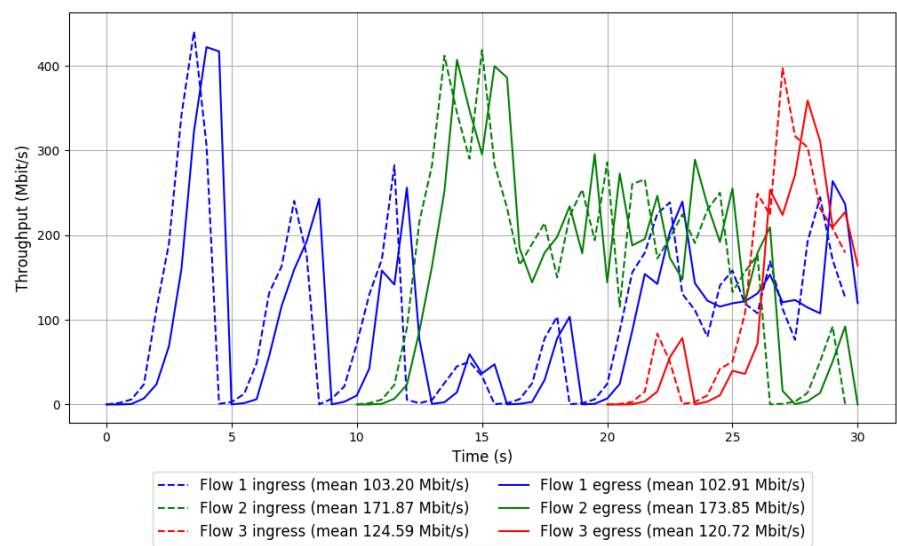


Run 9: Statistics of Verus

Start at: 2018-05-24 19:15:06  
End at: 2018-05-24 19:15:36  
Local clock offset: 0.04 ms  
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-05-24 21:39:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 256.70 Mbit/s  
95th percentile per-packet one-way delay: 173.714 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 102.91 Mbit/s  
95th percentile per-packet one-way delay: 144.865 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 173.85 Mbit/s  
95th percentile per-packet one-way delay: 179.858 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 120.72 Mbit/s  
95th percentile per-packet one-way delay: 232.345 ms  
Loss rate: 5.72%

Run 9: Report of Verus — Data Link

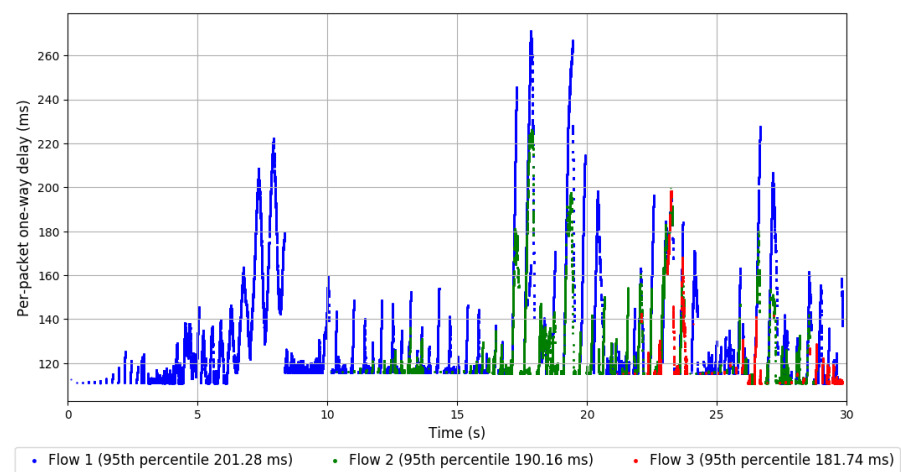
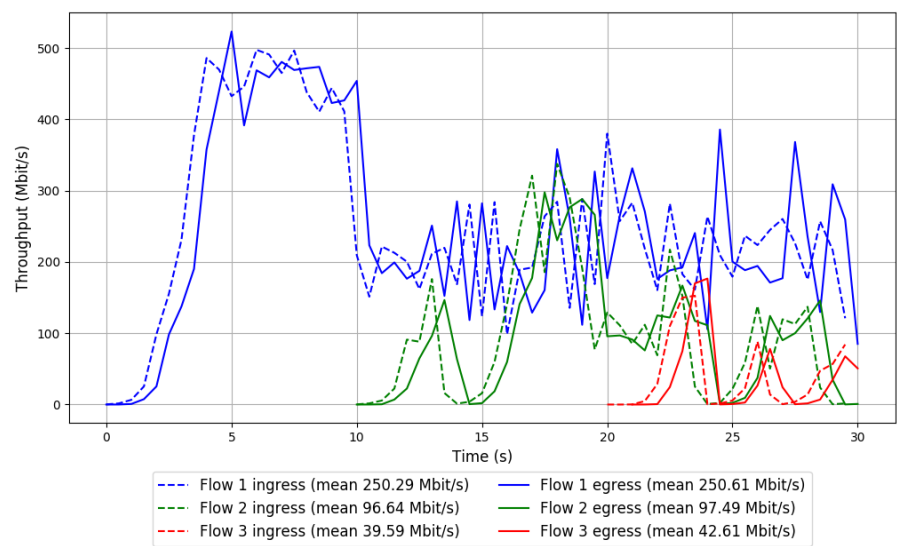


Run 10: Statistics of Verus

Start at: 2018-05-24 19:38:44  
End at: 2018-05-24 19:39:14  
Local clock offset: 0.054 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-05-24 21:40:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 327.48 Mbit/s  
95th percentile per-packet one-way delay: 197.123 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 250.61 Mbit/s  
95th percentile per-packet one-way delay: 201.277 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 97.49 Mbit/s  
95th percentile per-packet one-way delay: 190.162 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 42.61 Mbit/s  
95th percentile per-packet one-way delay: 181.735 ms  
Loss rate: 5.69%

Run 10: Report of Verus — Data Link



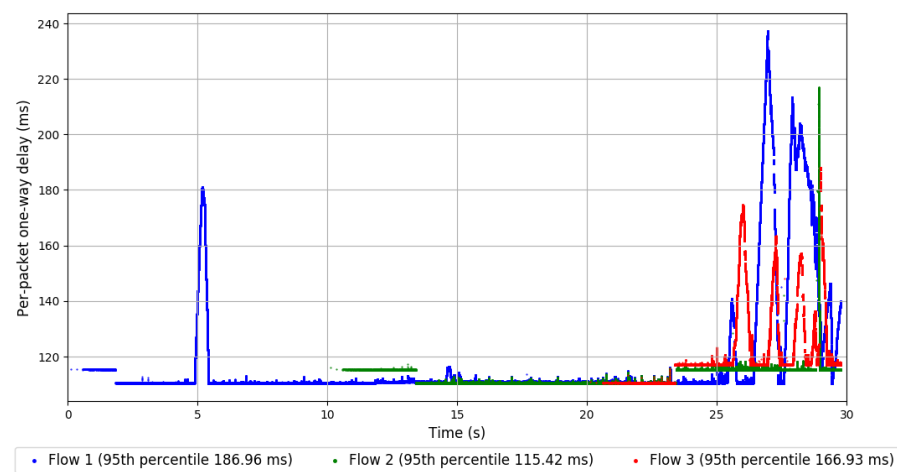
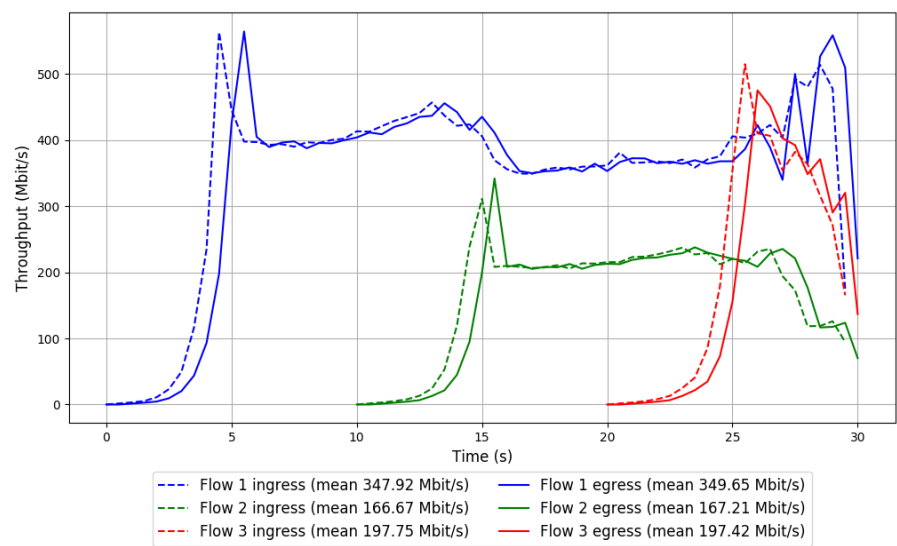
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 16:09:37  
End at: 2018-05-24 16:10:07  
Local clock offset: -0.026 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2018-05-24 21:44:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 524.58 Mbit/s  
95th percentile per-packet one-way delay: 173.718 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 349.65 Mbit/s  
95th percentile per-packet one-way delay: 186.958 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 167.21 Mbit/s  
95th percentile per-packet one-way delay: 115.415 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 197.42 Mbit/s  
95th percentile per-packet one-way delay: 166.926 ms  
Loss rate: 2.41%



Run 1: Report of PCC-Vivace — Data Link

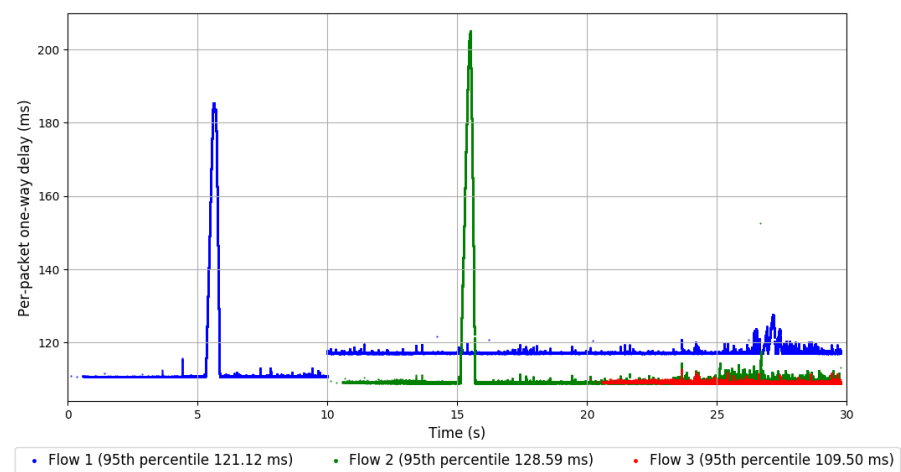
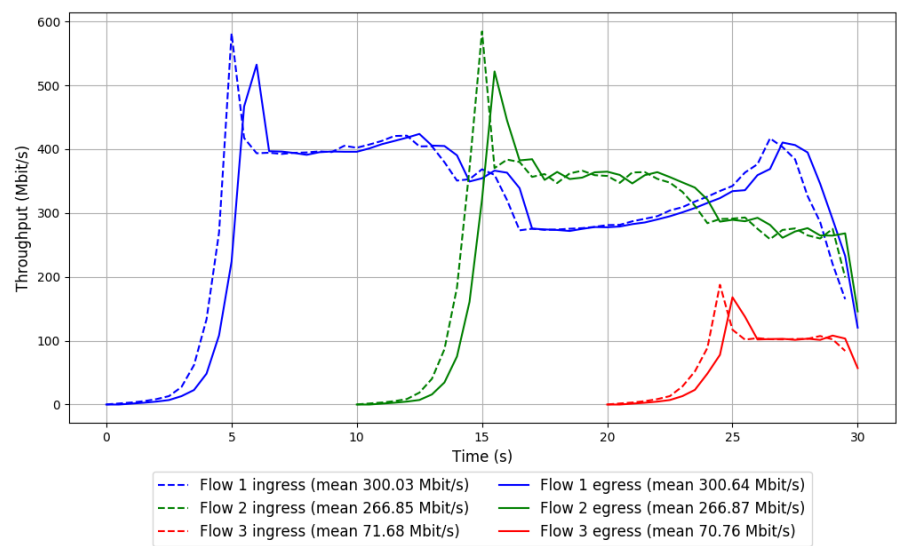


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 16:33:50  
End at: 2018-05-24 16:34:20  
Local clock offset: 0.096 ms  
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2018-05-24 21:44:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 500.48 Mbit/s  
95th percentile per-packet one-way delay: 120.780 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 300.64 Mbit/s  
95th percentile per-packet one-way delay: 121.119 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 266.87 Mbit/s  
95th percentile per-packet one-way delay: 128.587 ms  
Loss rate: 1.08%  
-- Flow 3:  
Average throughput: 70.76 Mbit/s  
95th percentile per-packet one-way delay: 109.495 ms  
Loss rate: 3.48%

Run 2: Report of PCC-Vivace — Data Link

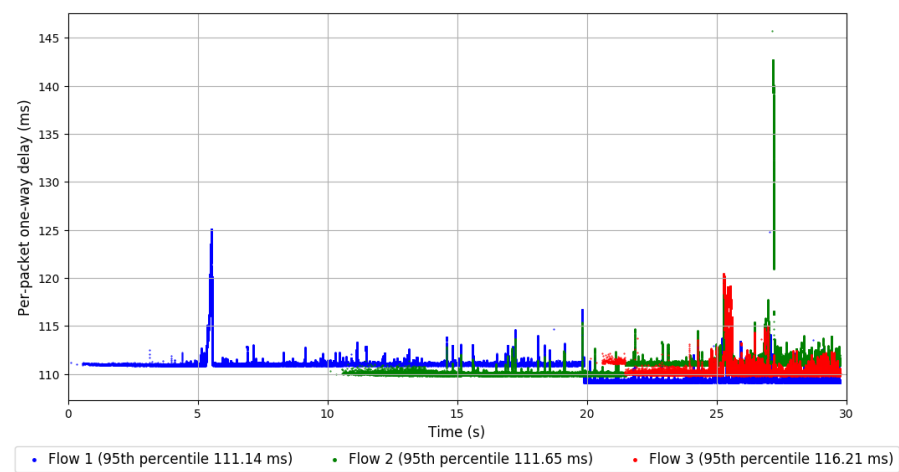
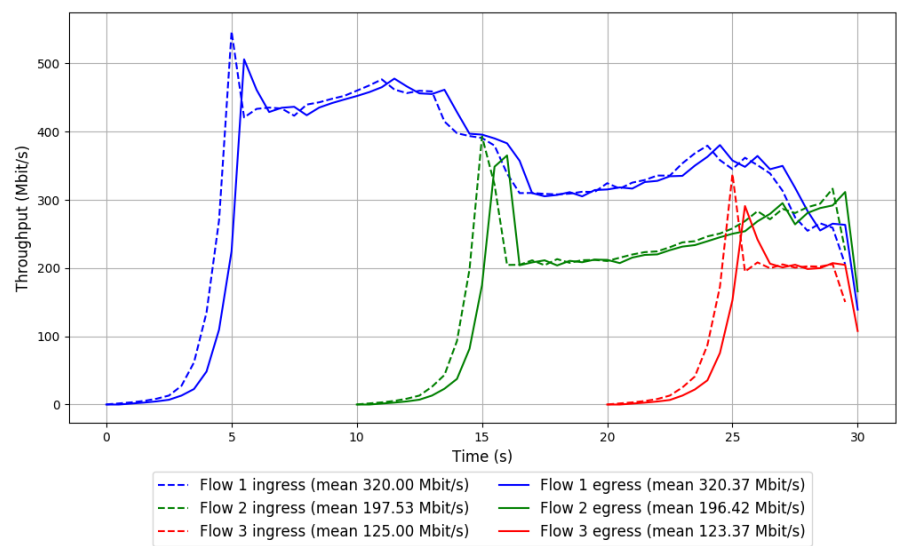


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 16:57:29  
End at: 2018-05-24 16:57:59  
Local clock offset: -0.04 ms  
Remote clock offset: -0.582 ms

# Below is generated by plot.py at 2018-05-24 21:44:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 490.60 Mbit/s  
95th percentile per-packet one-way delay: 111.440 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 320.37 Mbit/s  
95th percentile per-packet one-way delay: 111.141 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 196.42 Mbit/s  
95th percentile per-packet one-way delay: 111.649 ms  
Loss rate: 1.67%  
-- Flow 3:  
Average throughput: 123.37 Mbit/s  
95th percentile per-packet one-way delay: 116.206 ms  
Loss rate: 3.53%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 17:20:48

End at: 2018-05-24 17:21:18

Local clock offset: 0.04 ms

Remote clock offset: 0.224 ms

# Below is generated by plot.py at 2018-05-24 21:46:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 571.39 Mbit/s

95th percentile per-packet one-way delay: 115.702 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 327.35 Mbit/s

95th percentile per-packet one-way delay: 114.064 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 303.71 Mbit/s

95th percentile per-packet one-way delay: 119.132 ms

Loss rate: 1.21%

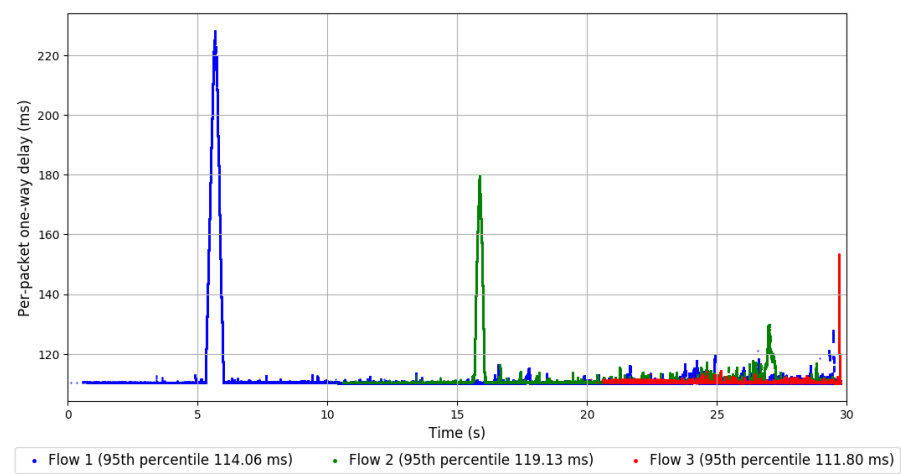
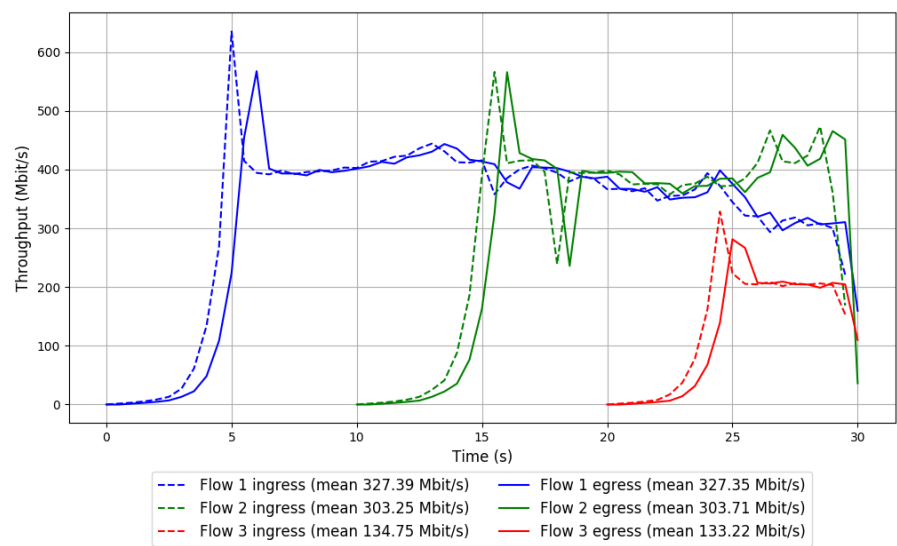
-- Flow 3:

Average throughput: 133.22 Mbit/s

95th percentile per-packet one-way delay: 111.804 ms

Loss rate: 3.38%

Run 4: Report of PCC-Vivace — Data Link



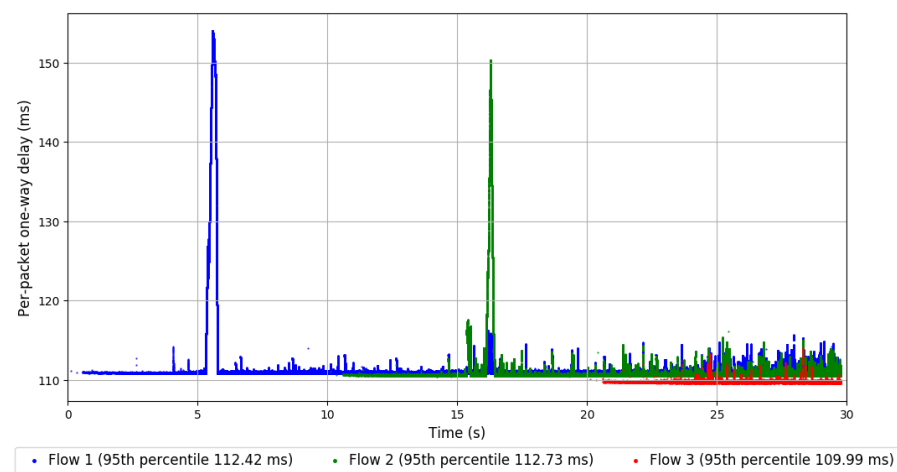
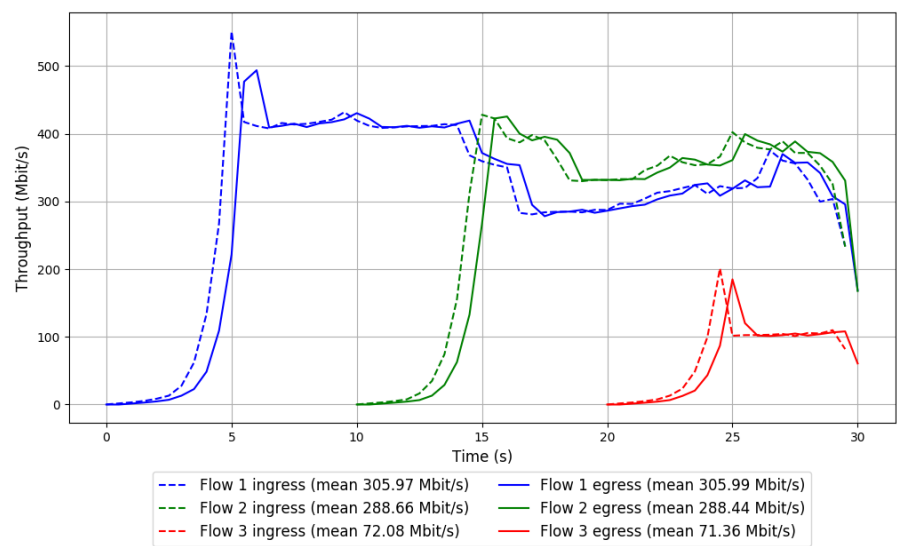
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 17:44:33  
End at: 2018-05-24 17:45:03  
Local clock offset: 0.101 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-05-24 21:46:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 520.26 Mbit/s  
95th percentile per-packet one-way delay: 112.451 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 305.99 Mbit/s  
95th percentile per-packet one-way delay: 112.424 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 288.44 Mbit/s  
95th percentile per-packet one-way delay: 112.728 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 71.36 Mbit/s  
95th percentile per-packet one-way delay: 109.994 ms  
Loss rate: 3.22%



Run 5: Report of PCC-Vivace — Data Link

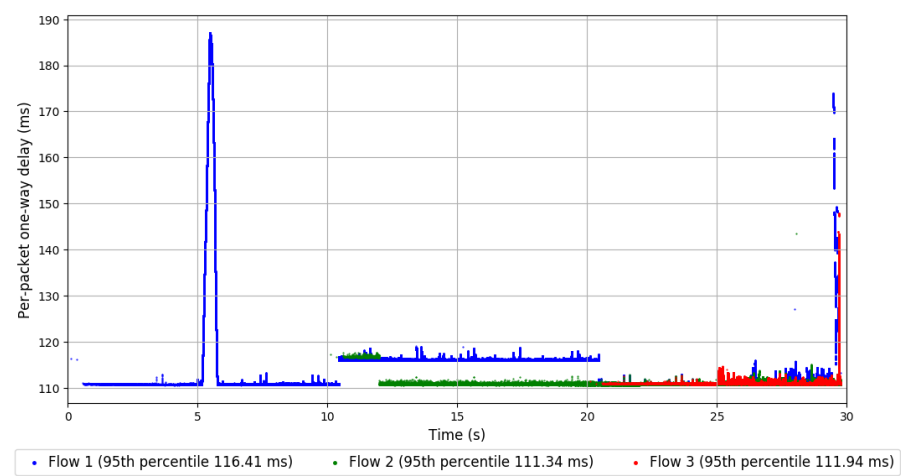
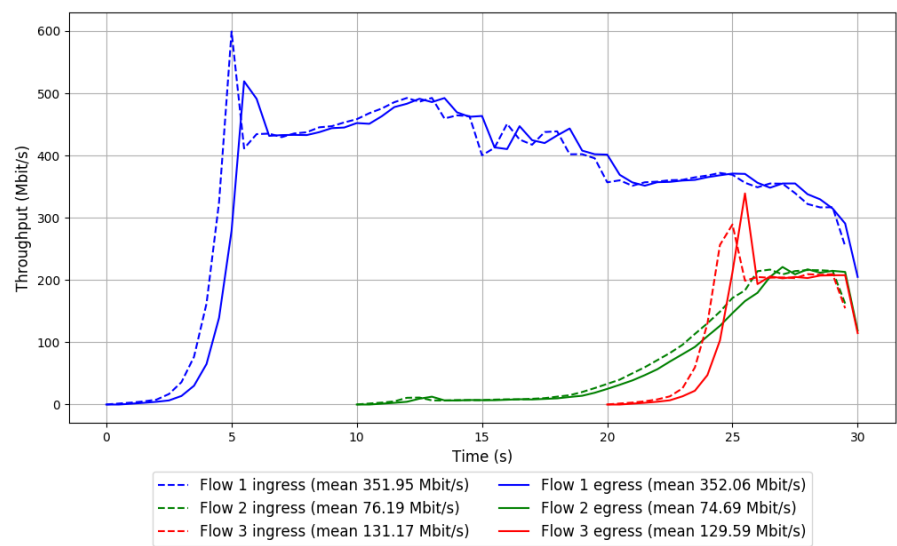


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 18:07:48  
End at: 2018-05-24 18:08:18  
Local clock offset: -0.016 ms  
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2018-05-24 21:46:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 443.68 Mbit/s  
95th percentile per-packet one-way delay: 116.205 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 352.06 Mbit/s  
95th percentile per-packet one-way delay: 116.412 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 74.69 Mbit/s  
95th percentile per-packet one-way delay: 111.343 ms  
Loss rate: 3.10%  
-- Flow 3:  
Average throughput: 129.59 Mbit/s  
95th percentile per-packet one-way delay: 111.935 ms  
Loss rate: 3.43%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 18:31:11

End at: 2018-05-24 18:31:41

Local clock offset: -0.361 ms

Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-05-24 21:47:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 554.02 Mbit/s

95th percentile per-packet one-way delay: 124.071 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 280.37 Mbit/s

95th percentile per-packet one-way delay: 113.633 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 313.85 Mbit/s

95th percentile per-packet one-way delay: 120.494 ms

Loss rate: 1.43%

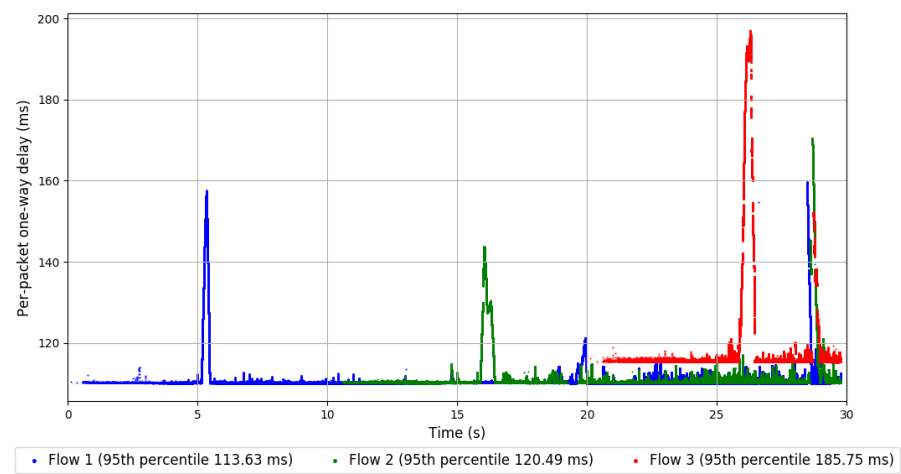
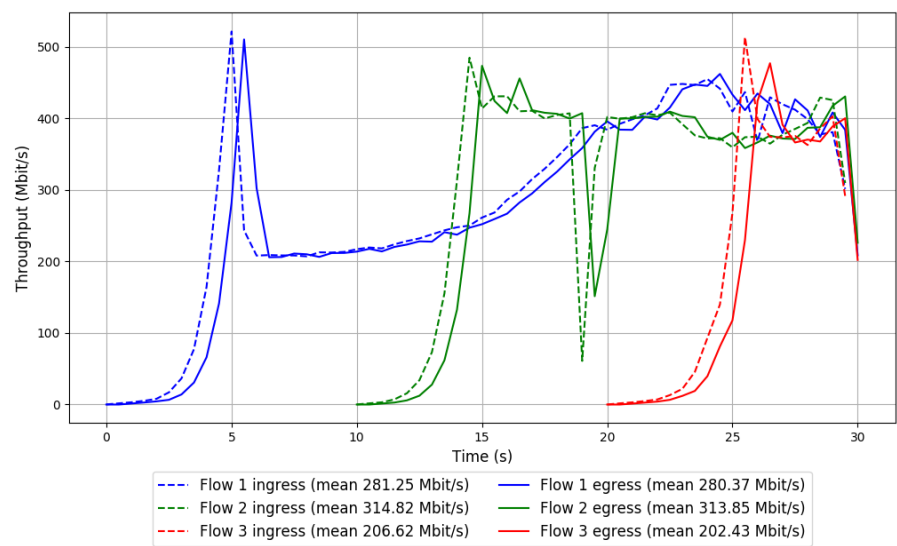
-- Flow 3:

Average throughput: 202.43 Mbit/s

95th percentile per-packet one-way delay: 185.750 ms

Loss rate: 4.29%

Run 7: Report of PCC-Vivace — Data Link

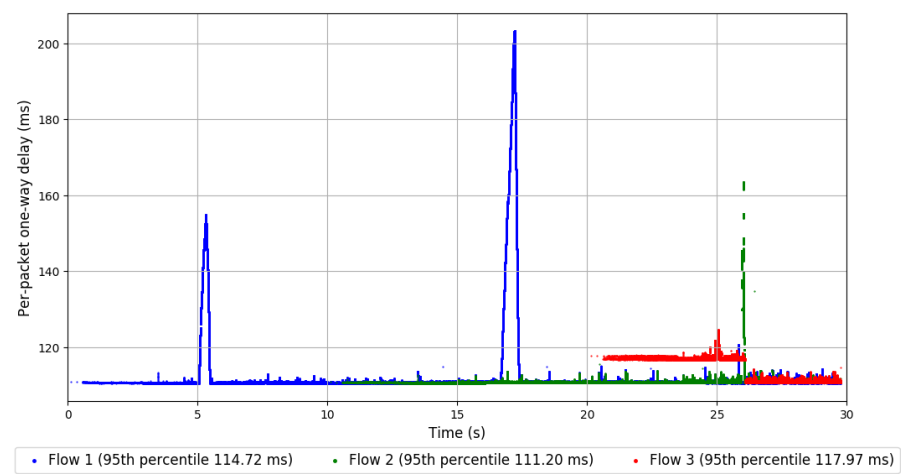
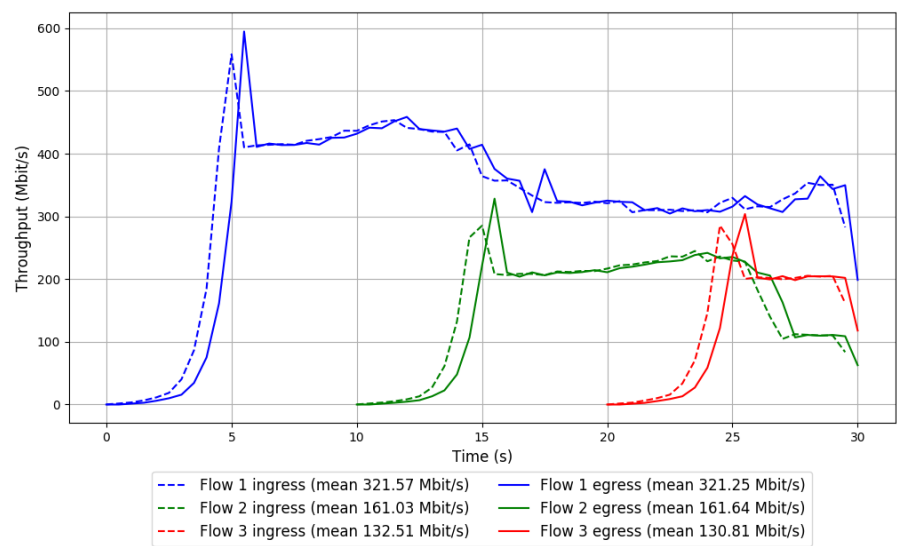


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 18:55:44  
End at: 2018-05-24 18:56:14  
Local clock offset: 0.064 ms  
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-05-24 21:47:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 470.73 Mbit/s  
95th percentile per-packet one-way delay: 117.042 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 321.25 Mbit/s  
95th percentile per-packet one-way delay: 114.725 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 161.64 Mbit/s  
95th percentile per-packet one-way delay: 111.199 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 130.81 Mbit/s  
95th percentile per-packet one-way delay: 117.970 ms  
Loss rate: 3.54%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 19:18:53

End at: 2018-05-24 19:19:23

Local clock offset: 0.184 ms

Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2018-05-24 21:48:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 541.40 Mbit/s

95th percentile per-packet one-way delay: 117.491 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 339.79 Mbit/s

95th percentile per-packet one-way delay: 112.371 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 269.38 Mbit/s

95th percentile per-packet one-way delay: 119.016 ms

Loss rate: 1.38%

-- Flow 3:

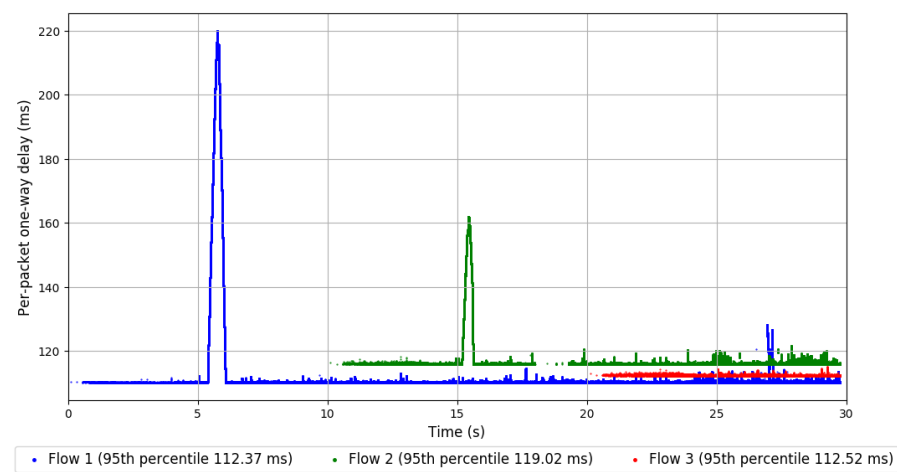
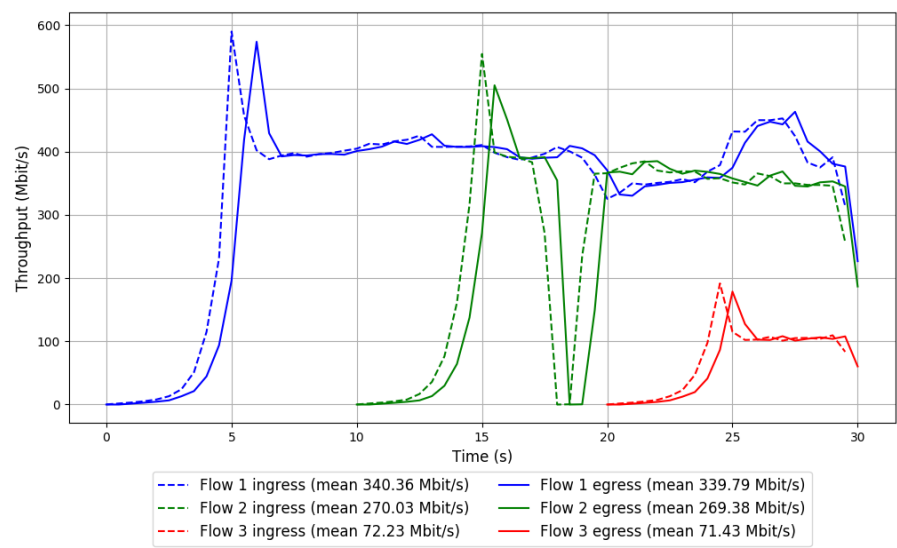
Average throughput: 71.43 Mbit/s

95th percentile per-packet one-way delay: 112.523 ms

Loss rate: 3.35%



Run 9: Report of PCC-Vivace — Data Link

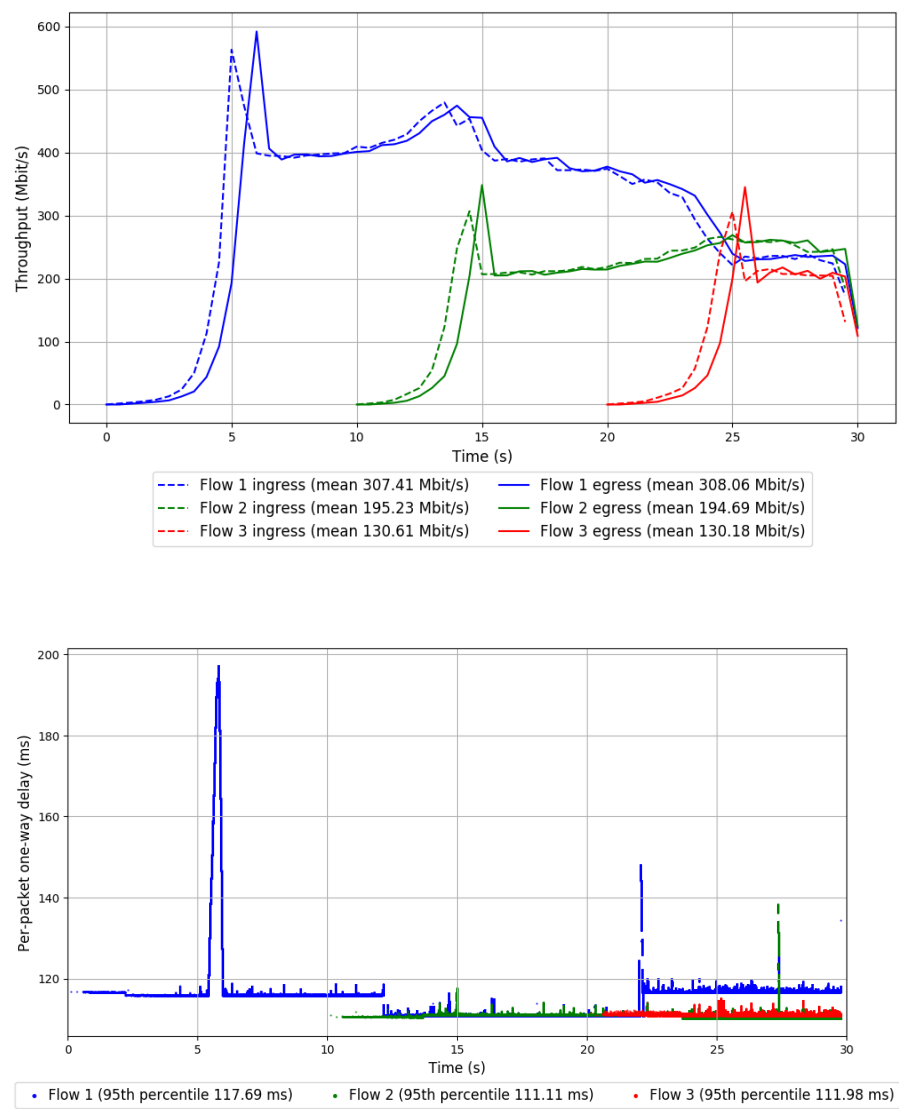


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 19:42:37  
End at: 2018-05-24 19:43:07  
Local clock offset: 0.035 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-24 21:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 479.34 Mbit/s  
95th percentile per-packet one-way delay: 116.915 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 308.06 Mbit/s  
95th percentile per-packet one-way delay: 117.695 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 194.69 Mbit/s  
95th percentile per-packet one-way delay: 111.112 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 130.18 Mbit/s  
95th percentile per-packet one-way delay: 111.977 ms  
Loss rate: 2.58%

Run 10: Report of PCC-Vivace — Data Link

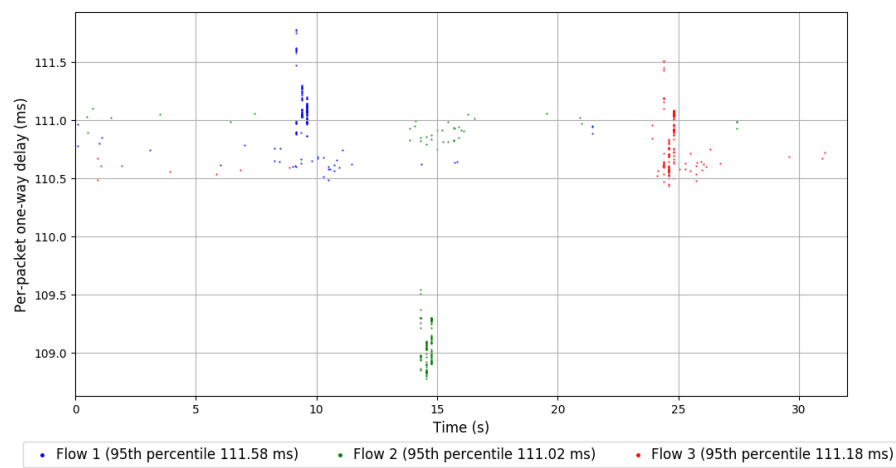
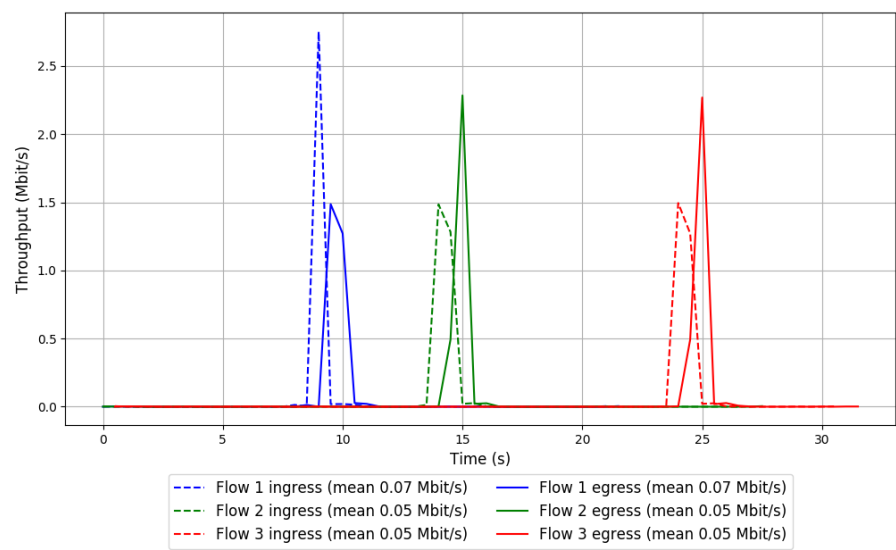


Run 1: Statistics of WebRTC media

Start at: 2018-05-24 16:01:40  
End at: 2018-05-24 16:02:10  
Local clock offset: -0.091 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-05-24 21:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 111.242 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 111.577 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 111.019 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 111.182 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-24 16:25:45

End at: 2018-05-24 16:26:15

Local clock offset: 0.042 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-05-24 21:48:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 117.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 117.302 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 117.222 ms

Loss rate: 0.00%

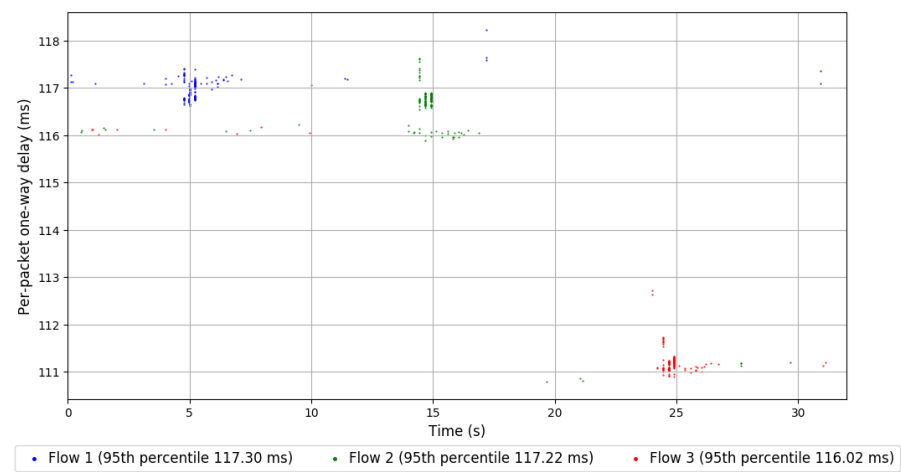
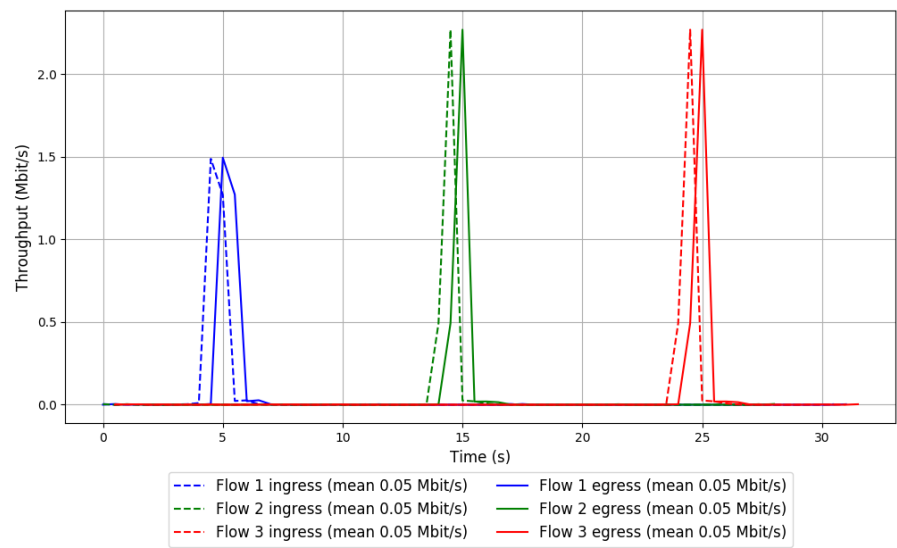
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 116.023 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



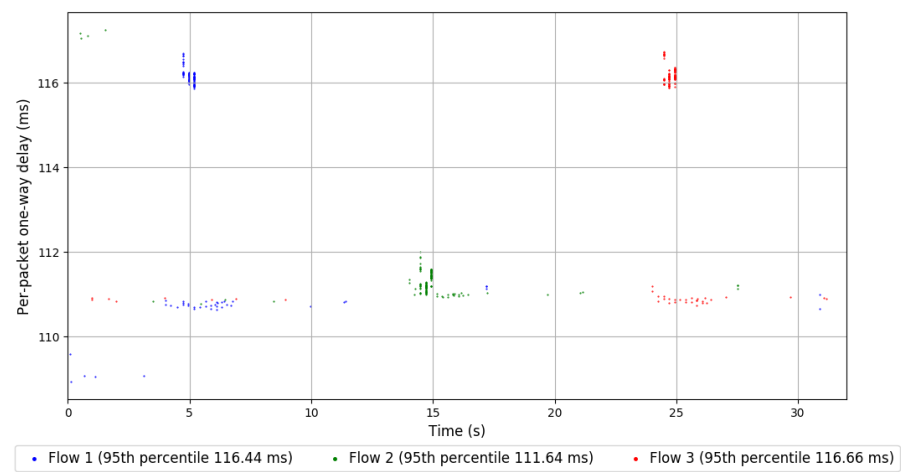
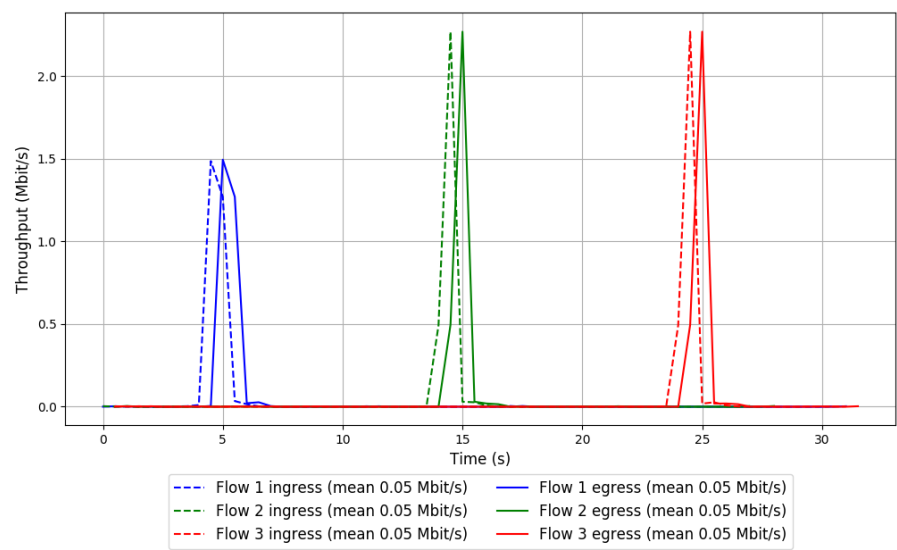
Run 3: Statistics of WebRTC media

Start at: 2018-05-24 16:49:41  
End at: 2018-05-24 16:50:11  
Local clock offset: -0.013 ms  
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-05-24 21:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 116.393 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.436 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 111.640 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.661 ms  
Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link

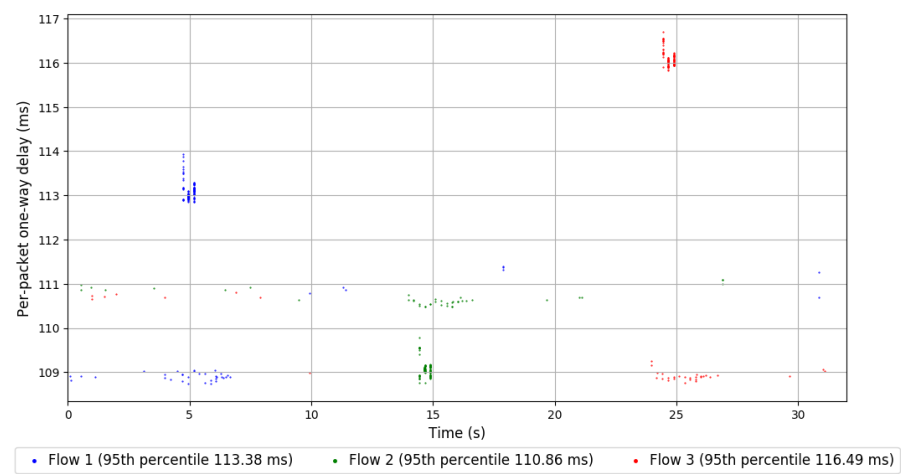
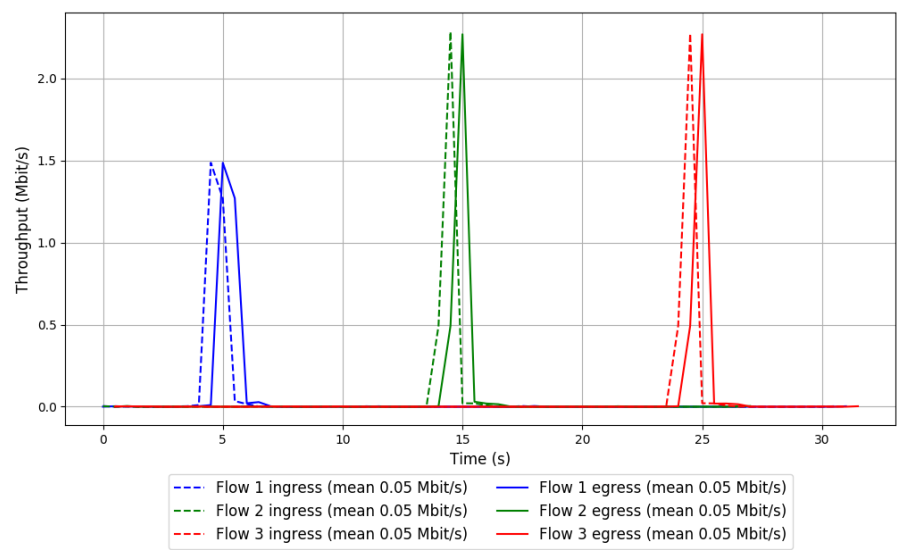


Run 4: Statistics of WebRTC media

Start at: 2018-05-24 17:13:04  
End at: 2018-05-24 17:13:34  
Local clock offset: -0.075 ms  
Remote clock offset: -0.231 ms

```
# Below is generated by plot.py at 2018-05-24 21:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 116.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 113.377 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.864 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 116.492 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-24 17:36:32

End at: 2018-05-24 17:37:02

Local clock offset: 0.166 ms

Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2018-05-24 21:48:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 111.008 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.955 ms

Loss rate: 0.00%

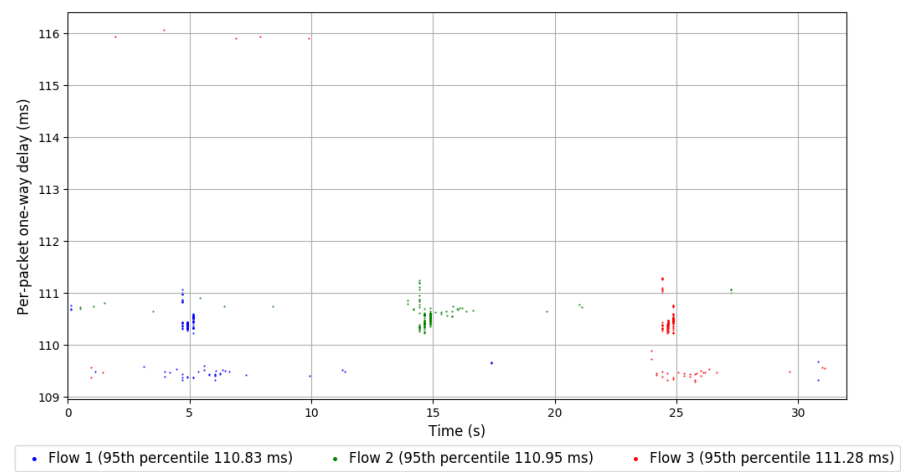
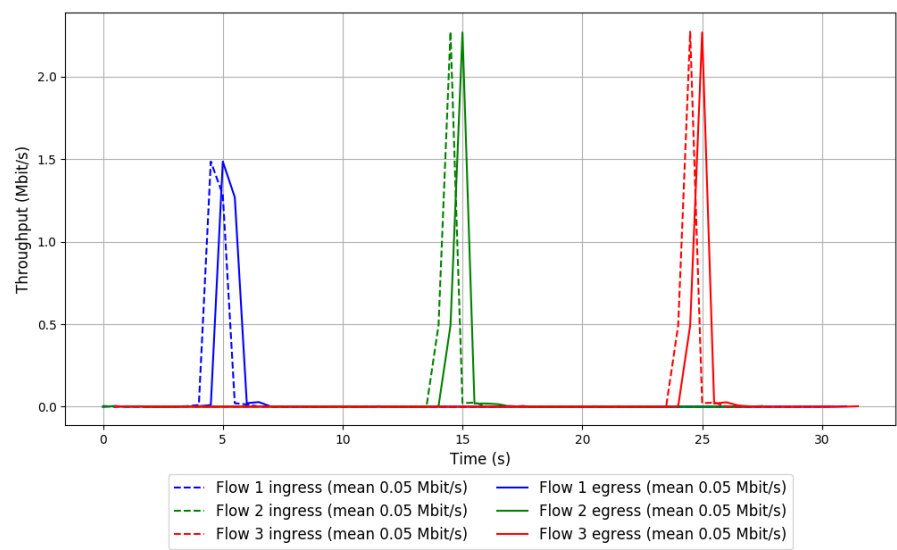
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 111.285 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

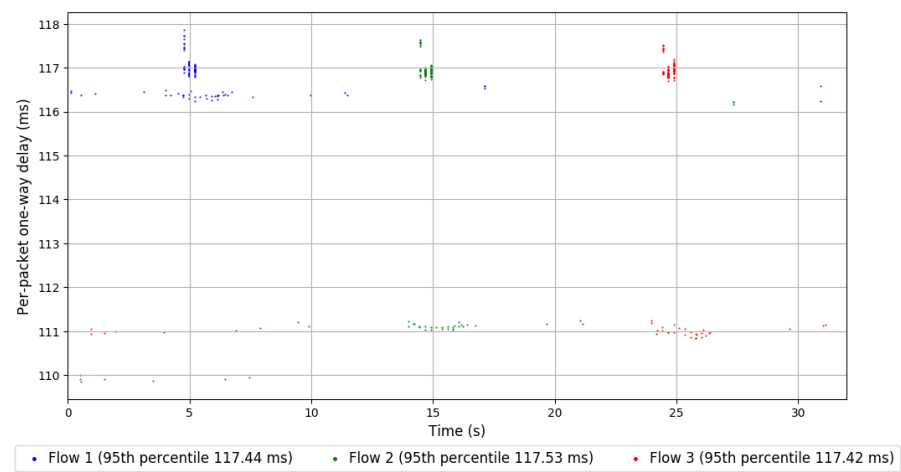
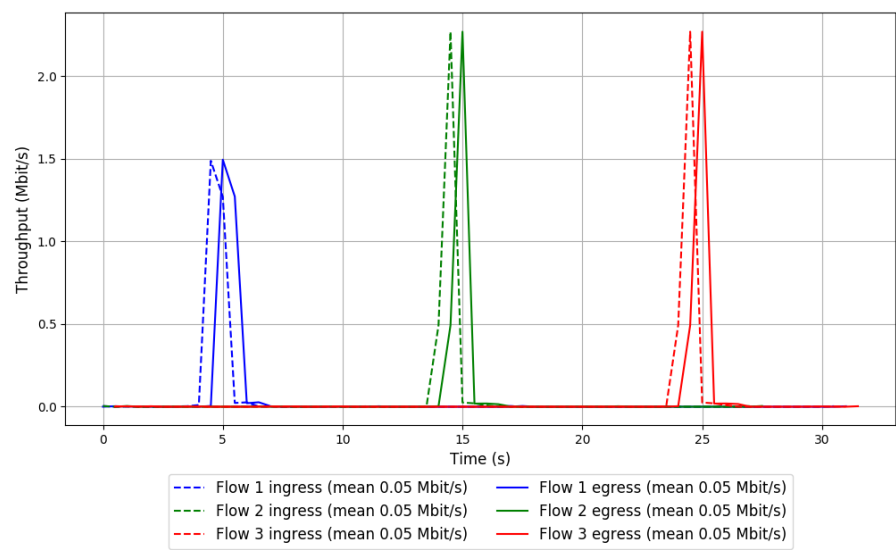


Run 6: Statistics of WebRTC media

Start at: 2018-05-24 18:00:06  
End at: 2018-05-24 18:00:37  
Local clock offset: 0.198 ms  
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-05-24 21:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 117.431 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 117.439 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 117.525 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 117.424 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-24 18:23:28

End at: 2018-05-24 18:23:58

Local clock offset: 0.209 ms

Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-05-24 21:48:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 116.694 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 116.801 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 110.543 ms

Loss rate: 0.00%

-- Flow 3:

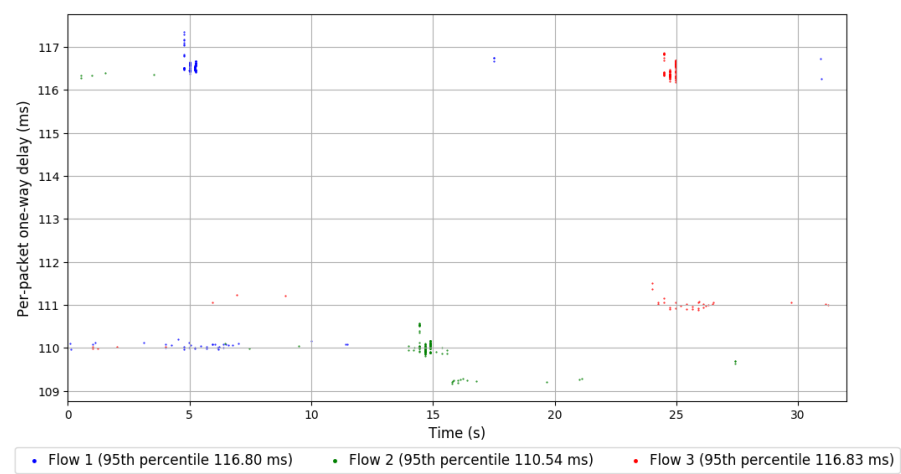
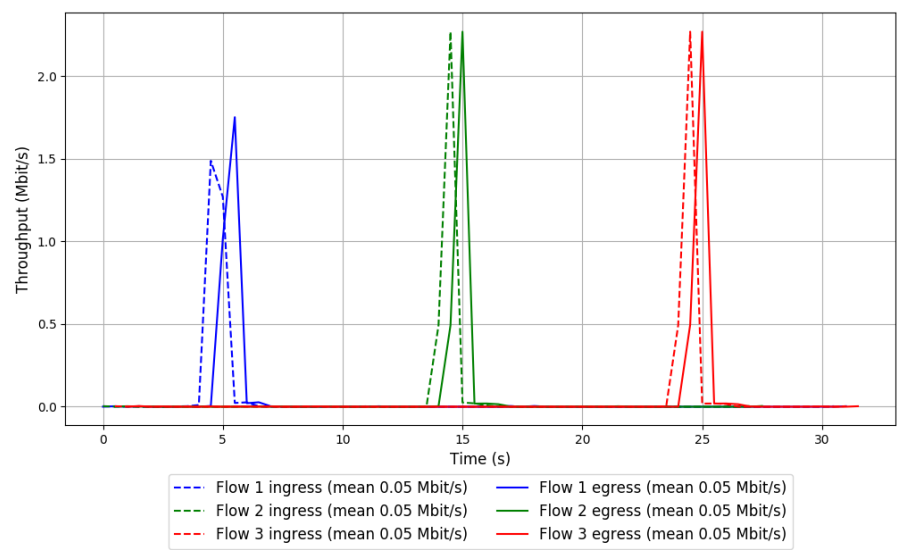
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 116.832 ms

Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

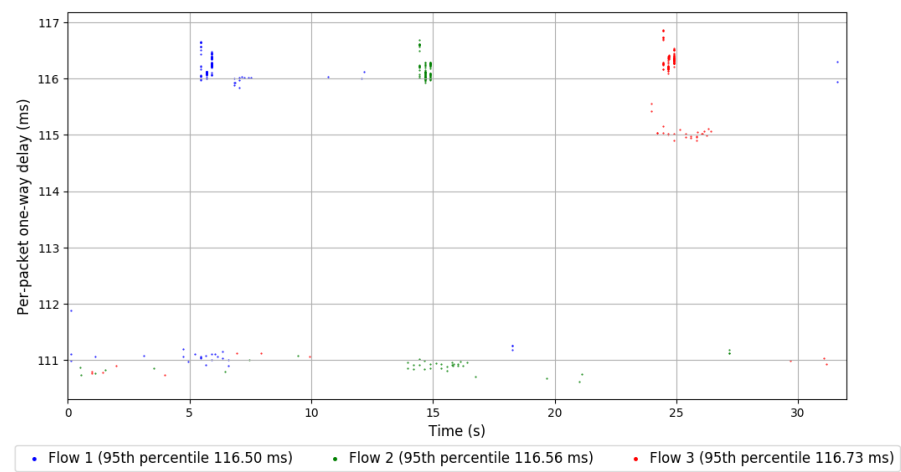
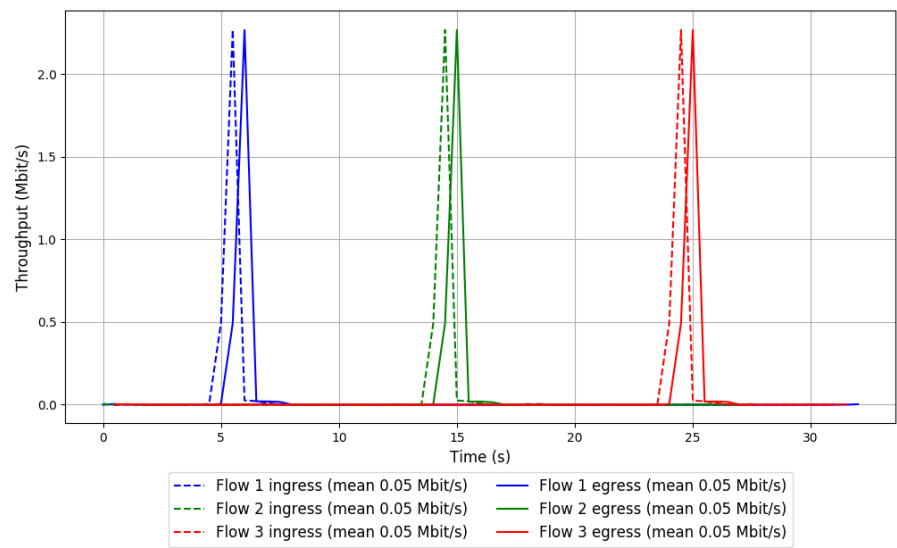


Run 8: Statistics of WebRTC media

Start at: 2018-05-24 18:47:37  
End at: 2018-05-24 18:48:07  
Local clock offset: -0.207 ms  
Remote clock offset: -0.239 ms

# Below is generated by plot.py at 2018-05-24 21:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 116.573 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.502 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.563 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.730 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

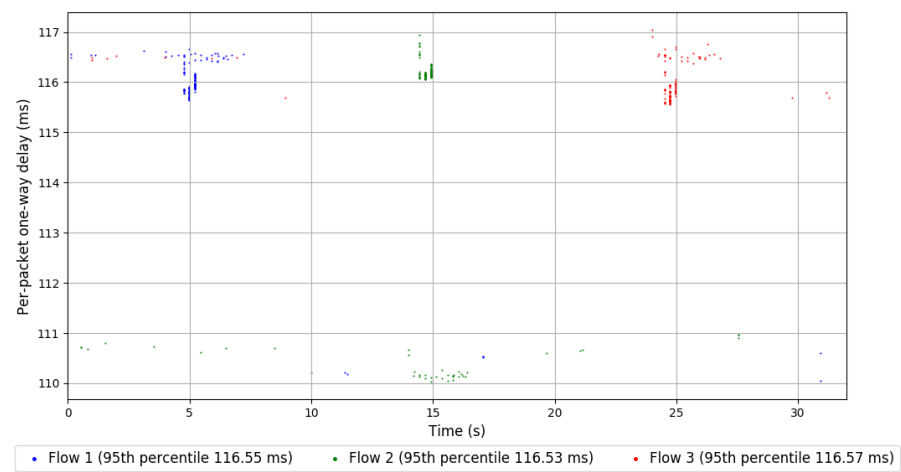
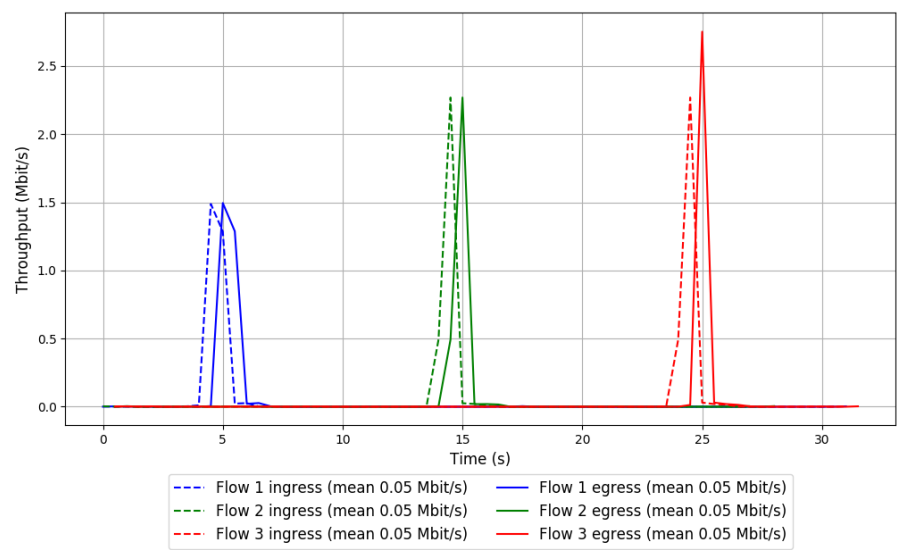


Run 9: Statistics of WebRTC media

Start at: 2018-05-24 19:11:15  
End at: 2018-05-24 19:11:45  
Local clock offset: -0.122 ms  
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2018-05-24 21:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 116.561 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.550 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.534 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.566 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 19:34:30  
End at: 2018-05-24 19:35:00  
Local clock offset: -0.052 ms  
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2018-05-24 21:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 116.554 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.153 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.637 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 116.443 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

