

## Pantheon Report

Generated at 2018-06-30 13:55:25 (UTC).

Data path: China ppp0 ppp0 (*remote*) → AWS Korea Ethernet (*local*).

Repeated the test of 17 congestion control schemes 3 times.

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

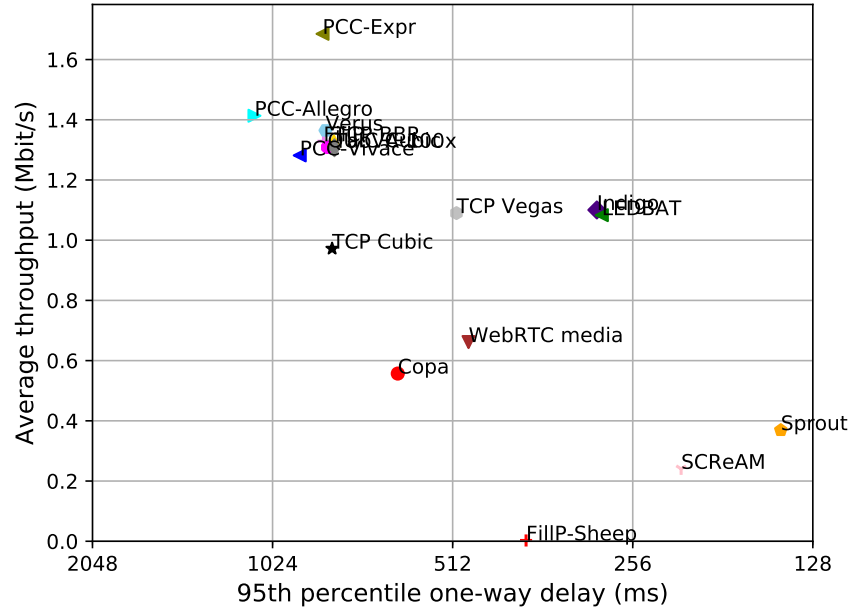
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

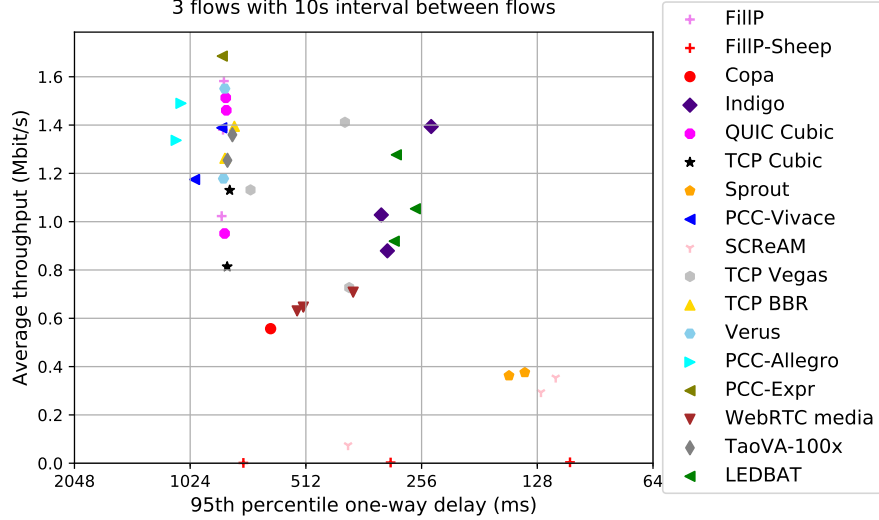
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from China ppp0 to AWS Korea, 3 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from China ppp0 to AWS Korea, 3 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	2	0.84	0.57	0.36	786.50	812.42	818.08	6.17	10.33	16.31
Copa	1	0.42	0.12	0.19	620.02	678.51	656.60	6.00	15.90	12.80
TCP Cubic	2	0.70	0.35	0.38	811.90	758.85	555.85	11.62	14.69	22.64
FillP	3	0.85	0.48	0.59	838.30	840.12	853.32	43.00	45.85	59.67
FillP-Sheep	3	0.00	0.00	0.00	100.01	275.59	313.99	56.46	32.65	6.80
Indigo	3	0.56	0.58	0.51	261.52	267.19	358.59	0.36	0.72	1.11
LEDBAT	3	0.67	0.65	0.66	277.04	288.61	285.33	2.82	0.61	4.53
PCC-Allegro	2	0.90	0.69	0.26	879.67	1087.69	1007.72	74.15	83.75	87.69
PCC-Expr	1	1.38	0.00	1.14	842.48	819.02	851.03	71.28	92.31	86.30
QUIC Cubic	3	0.93	0.42	0.36	828.09	829.69	828.86	8.41	14.59	21.22
SCReAM	3	0.13	0.13	0.15	212.14	137.40	159.59	4.14	18.55	14.27
Sprout	2	0.17	0.18	0.22	402.71	134.37	153.23	2.04	0.95	1.40
TaoVA-100x	2	0.82	0.57	0.35	787.16	816.95	831.25	6.57	11.12	45.84
TCP Vegas	3	0.50	0.48	0.86	471.74	520.06	539.44	4.31	2.71	2.93
Verus	2	1.15	0.34	0.02	835.87	830.37	830.79	18.97	11.85	7.14
PCC-Vivace	2	0.78	0.62	0.39	892.58	861.84	1077.43	46.16	59.05	70.86
WebRTC media	3	0.23	0.26	0.17	567.04	444.37	485.16	0.64	0.30	3.26

Run 1: Statistics of TCP BBR

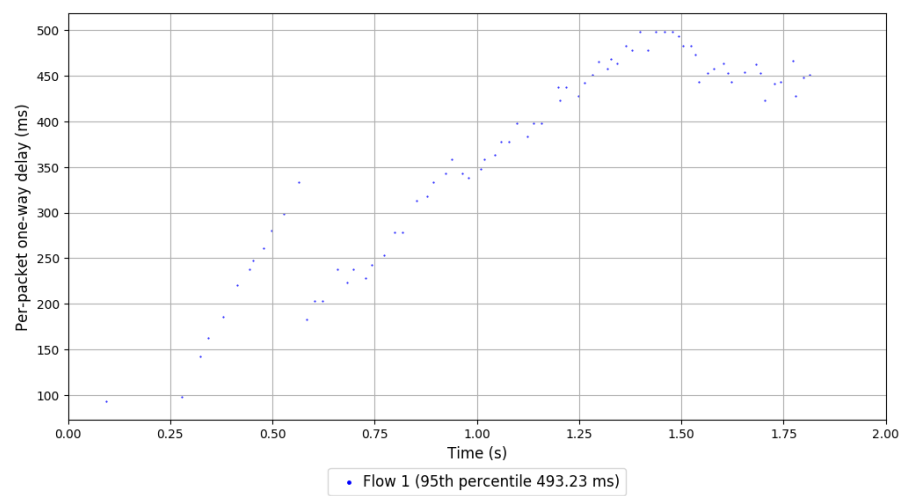
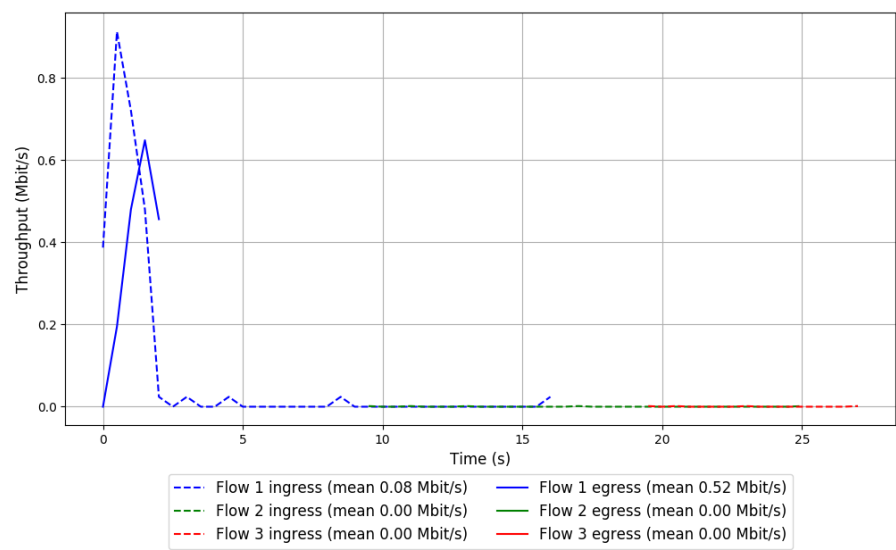
Start at: 2018-06-30 12:47:29

End at: 2018-06-30 12:47:59

Local clock offset: -3.918 ms

Remote clock offset: -9.564 ms

Run 1: Report of TCP BBR — Data Link

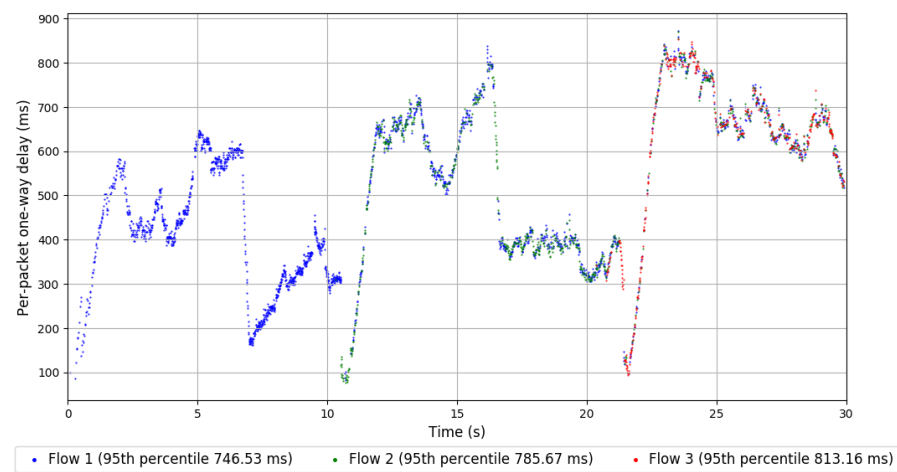
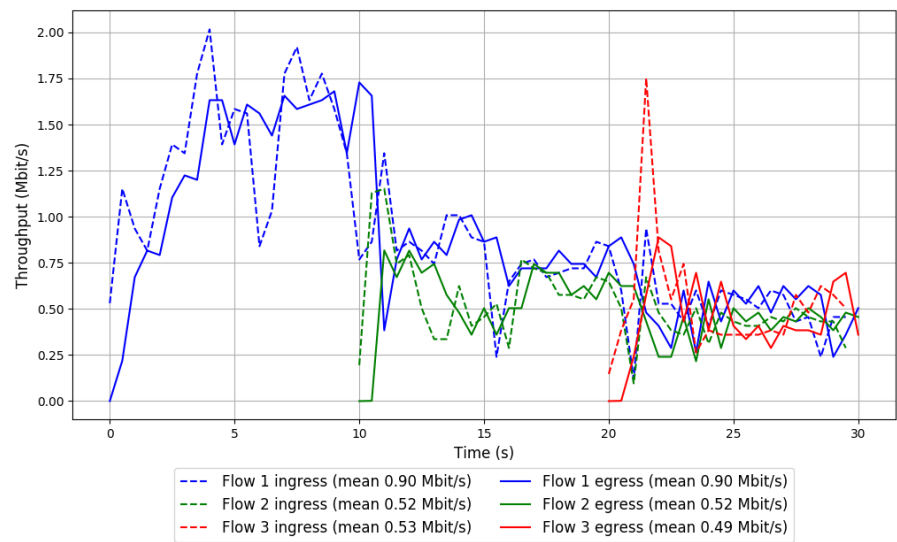


Run 2: Statistics of TCP BBR

Start at: 2018-06-30 13:11:54  
End at: 2018-06-30 13:12:24  
Local clock offset: 7.502 ms  
Remote clock offset: -9.824 ms

# Below is generated by plot.py at 2018-06-30 13:54:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.40 Mbit/s  
95th percentile per-packet one-way delay: 785.777 ms  
Loss rate: 2.56%  
-- Flow 1:  
Average throughput: 0.90 Mbit/s  
95th percentile per-packet one-way delay: 746.527 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 785.668 ms  
Loss rate: 2.31%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 813.160 ms  
Loss rate: 10.93%

Run 2: Report of TCP BBR — Data Link



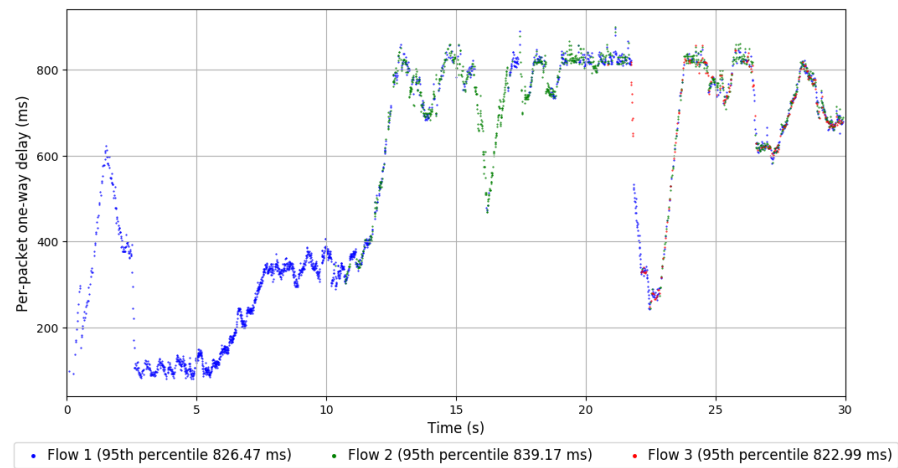
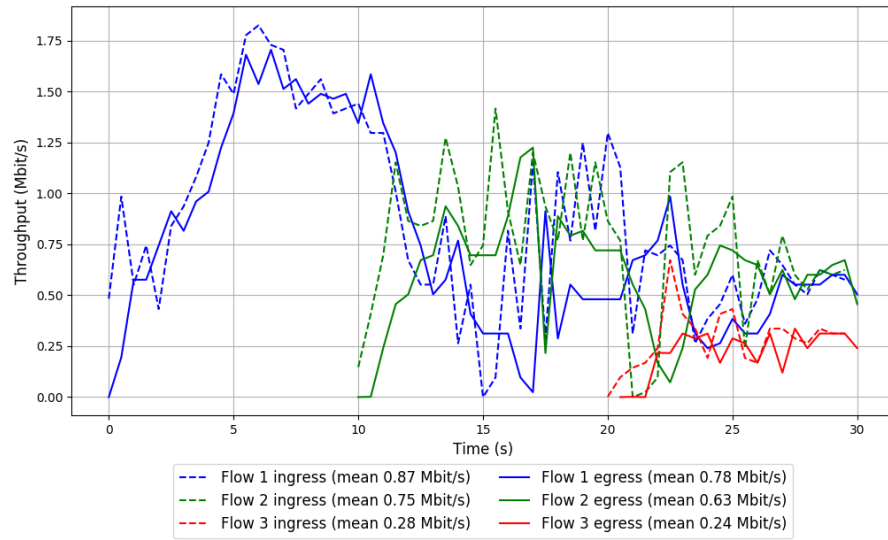
Run 3: Statistics of TCP BBR

Start at: 2018-06-30 13:36:00  
End at: 2018-06-30 13:36:31  
Local clock offset: 9.034 ms  
Remote clock offset: -10.039 ms

# Below is generated by plot.py at 2018-06-30 13:54:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 831.483 ms  
Loss rate: 14.39%  
-- Flow 1:  
Average throughput: 0.78 Mbit/s  
95th percentile per-packet one-way delay: 826.466 ms  
Loss rate: 11.32%  
-- Flow 2:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 839.175 ms  
Loss rate: 18.35%  
-- Flow 3:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 822.992 ms  
Loss rate: 21.69%



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

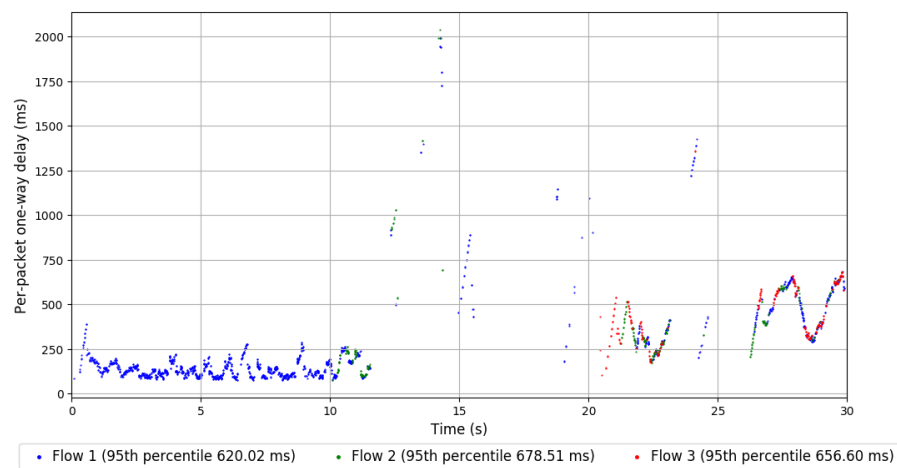
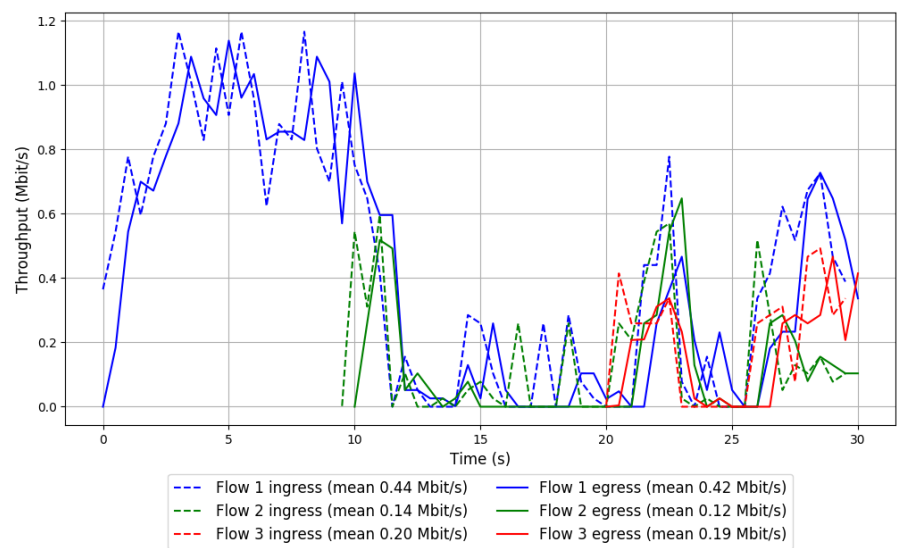


Run 1: Statistics of Copa

Start at: 2018-06-30 12:48:47  
End at: 2018-06-30 12:49:17  
Local clock offset: -2.243 ms  
Remote clock offset: -9.135 ms

# Below is generated by plot.py at 2018-06-30 13:54:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 632.428 ms  
Loss rate: 8.32%  
-- Flow 1:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 620.016 ms  
Loss rate: 6.00%  
-- Flow 2:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 678.510 ms  
Loss rate: 15.90%  
-- Flow 3:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 656.602 ms  
Loss rate: 12.80%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

/home/ubuntu/pantheon/data/2018-06-30T12-41-China-ppp0-to-AWS-Korea-3-runs-3-flows/copa\_stat

Run 2: Report of Copa — Data Link

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Figure is missing

Run 3: Statistics of Copa

Start at: 2018-06-30 13:37:22

End at: 2018-06-30 13:37:52

Local clock offset: 8.959 ms

Remote clock offset: -9.994 ms

Run 3: Report of Copa — Data Link

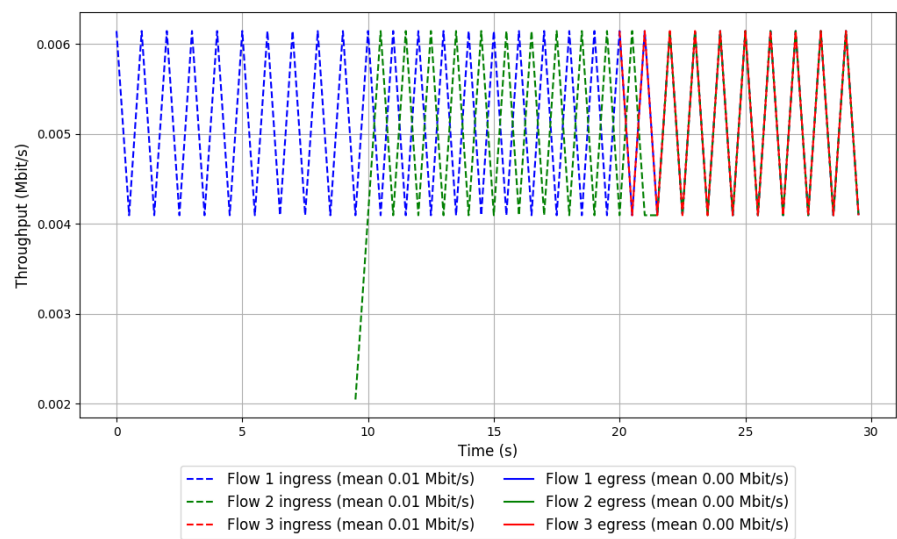


Figure is missing

Run 1: Statistics of TCP Cubic

Start at: 2018-06-30 12:42:09

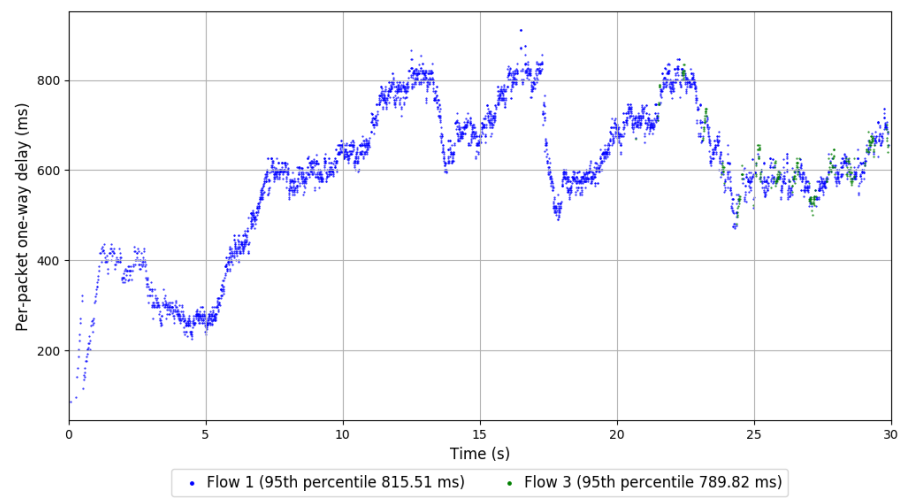
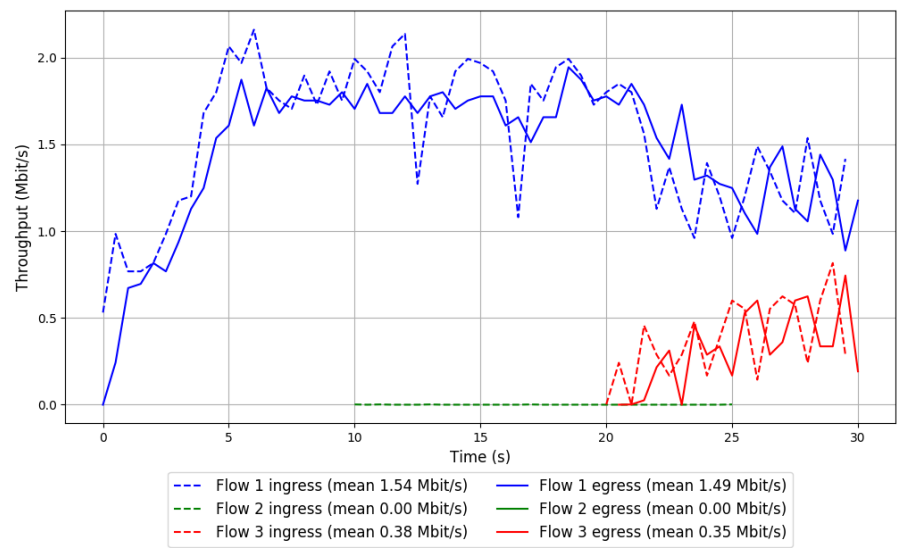
End at: 2018-06-30 12:42:39

Local clock offset: -5.936 ms

Remote clock offset: -9.031 ms



Run 1: Report of TCP Cubic — Data Link

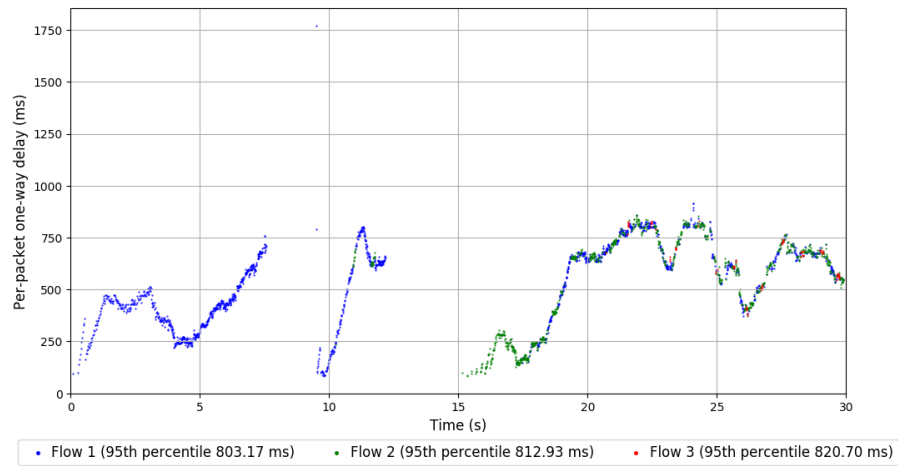
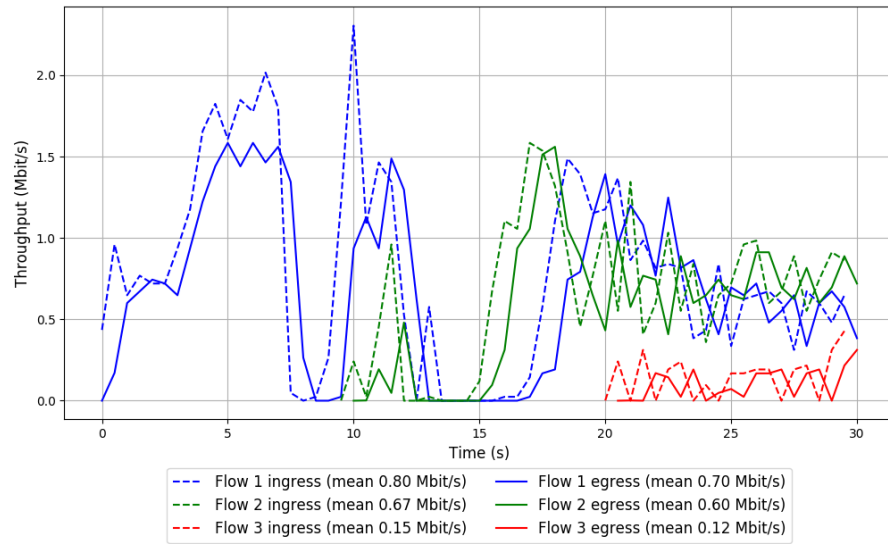


Run 2: Statistics of TCP Cubic

Start at: 2018-06-30 13:07:39  
End at: 2018-06-30 13:08:09  
Local clock offset: 6.929 ms  
Remote clock offset: -9.737 ms

# Below is generated by plot.py at 2018-06-30 13:54:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.13 Mbit/s  
95th percentile per-packet one-way delay: 808.157 ms  
Loss rate: 12.82%  
-- Flow 1:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 803.170 ms  
Loss rate: 13.01%  
-- Flow 2:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 812.932 ms  
Loss rate: 10.75%  
-- Flow 3:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 820.697 ms  
Loss rate: 28.33%

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

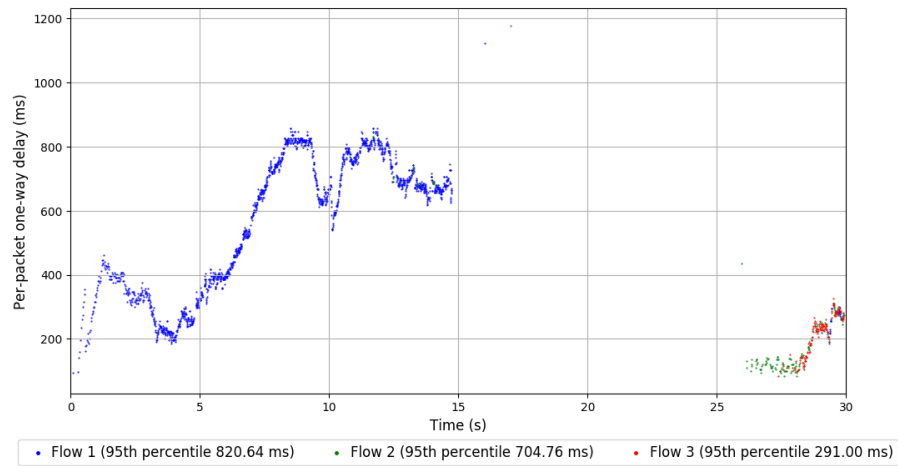
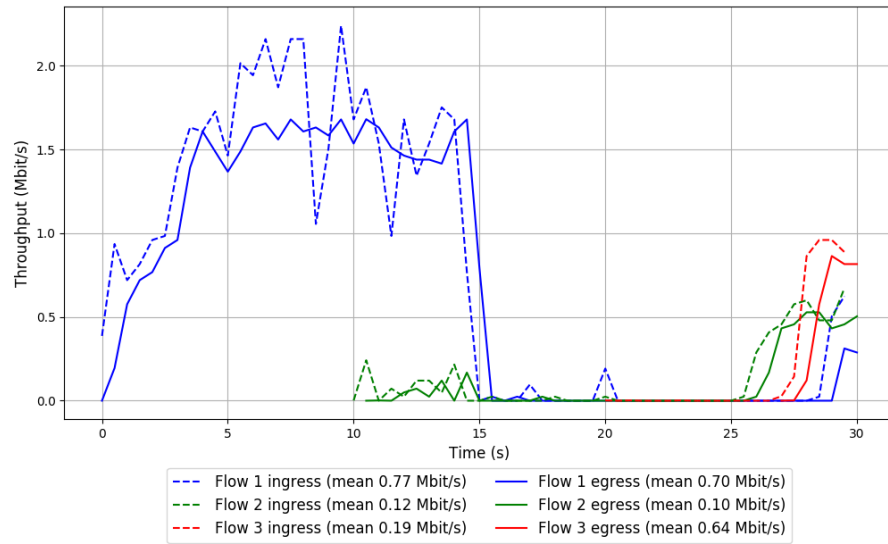


Run 3: Statistics of TCP Cubic

Start at: 2018-06-30 13:31:46  
End at: 2018-06-30 13:32:16  
Local clock offset: 8.87 ms  
Remote clock offset: -10.093 ms

# Below is generated by plot.py at 2018-06-30 13:54:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.81 Mbit/s  
95th percentile per-packet one-way delay: 820.354 ms  
Loss rate: 11.44%  
-- Flow 1:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 820.640 ms  
Loss rate: 10.22%  
-- Flow 2:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 704.763 ms  
Loss rate: 18.62%  
-- Flow 3:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 291.004 ms  
Loss rate: 16.96%

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

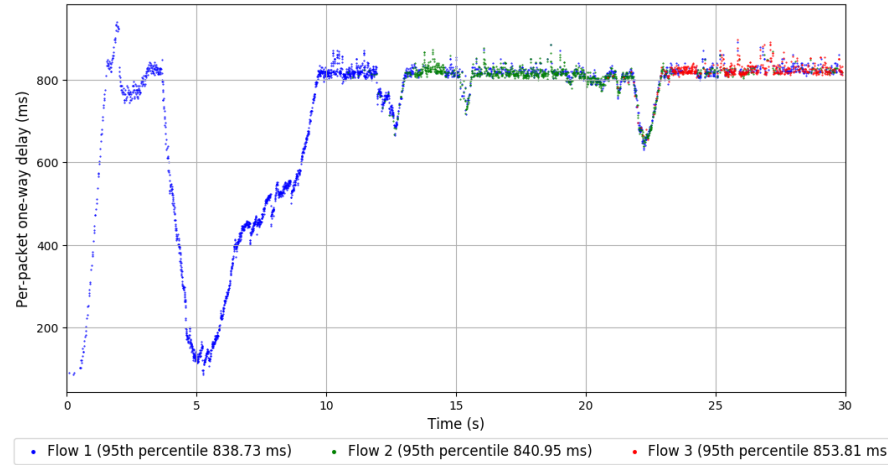
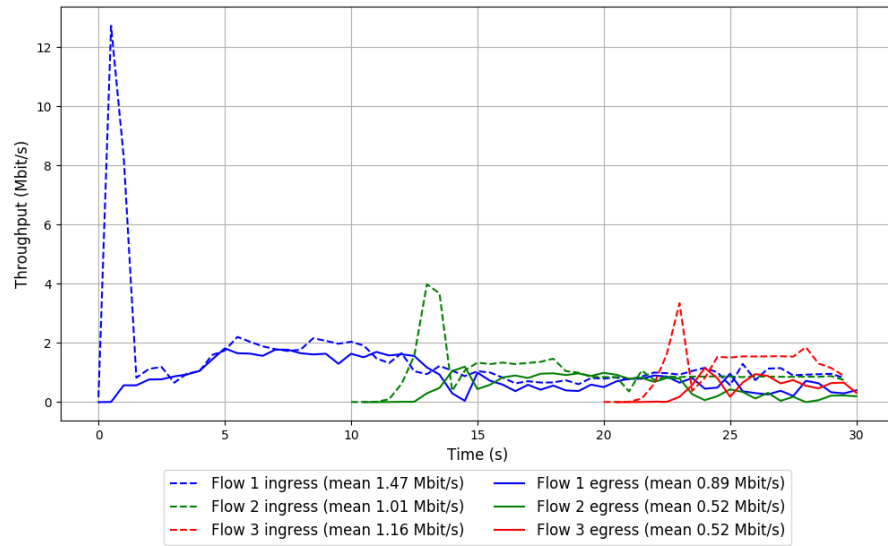


Run 1: Statistics of FillP

Start at: 2018-06-30 12:57:35  
End at: 2018-06-30 12:58:05  
Local clock offset: 3.82 ms  
Remote clock offset: -9.454 ms

# Below is generated by plot.py at 2018-06-30 13:54:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.38 Mbit/s  
95th percentile per-packet one-way delay: 841.101 ms  
Loss rate: 45.69%  
-- Flow 1:  
Average throughput: 0.89 Mbit/s  
95th percentile per-packet one-way delay: 838.727 ms  
Loss rate: 39.92%  
-- Flow 2:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 840.951 ms  
Loss rate: 50.85%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 853.806 ms  
Loss rate: 58.79%

## Run 1: Report of FillP — Data Link



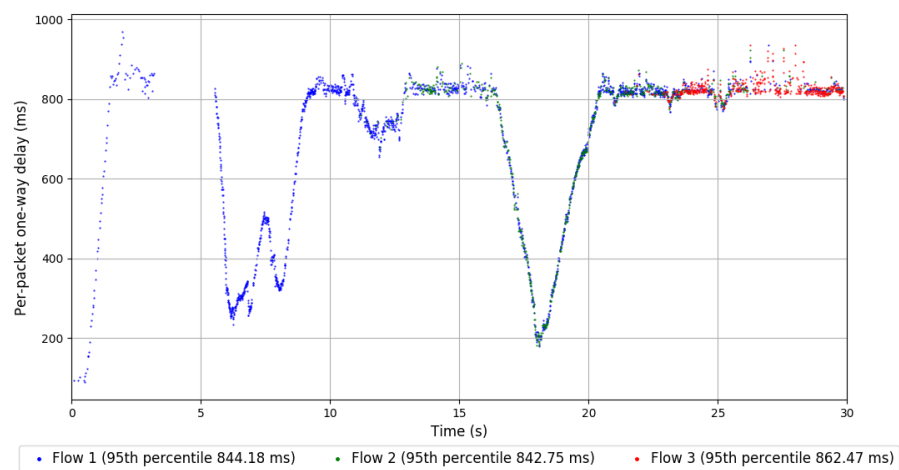
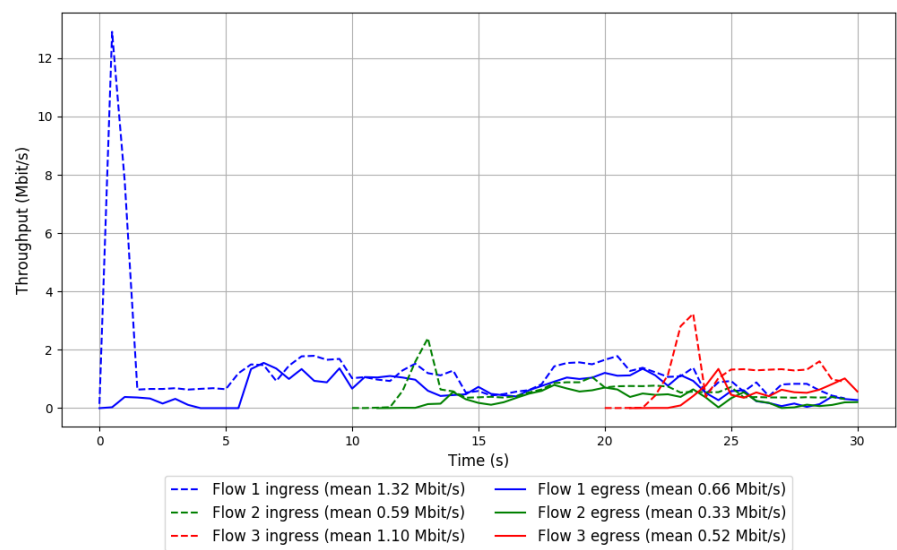
Run 2: Statistics of FillP

Start at: 2018-06-30 13:22:11  
End at: 2018-06-30 13:22:41  
Local clock offset: 8.105 ms  
Remote clock offset: -10.076 ms

# Below is generated by plot.py at 2018-06-30 13:54:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.02 Mbit/s  
95th percentile per-packet one-way delay: 847.856 ms  
Loss rate: 50.91%  
-- Flow 1:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 844.181 ms  
Loss rate: 50.20%  
-- Flow 2:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 842.751 ms  
Loss rate: 46.76%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 862.471 ms  
Loss rate: 57.92%



Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-30 13:45:38

End at: 2018-06-30 13:46:08

Local clock offset: 9.349 ms

Remote clock offset: -9.22 ms

# Below is generated by plot.py at 2018-06-30 13:55:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 836.573 ms

Loss rate: 43.99%

-- Flow 1:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 831.981 ms

Loss rate: 38.88%

-- Flow 2:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 836.673 ms

Loss rate: 39.95%

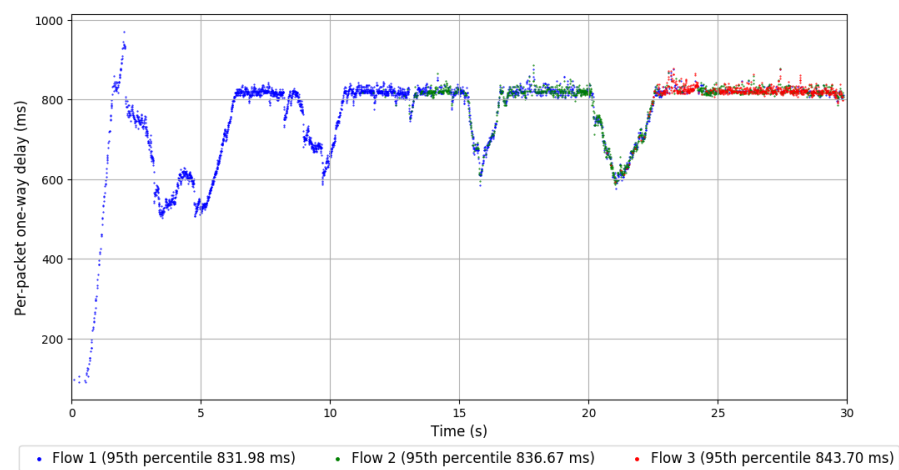
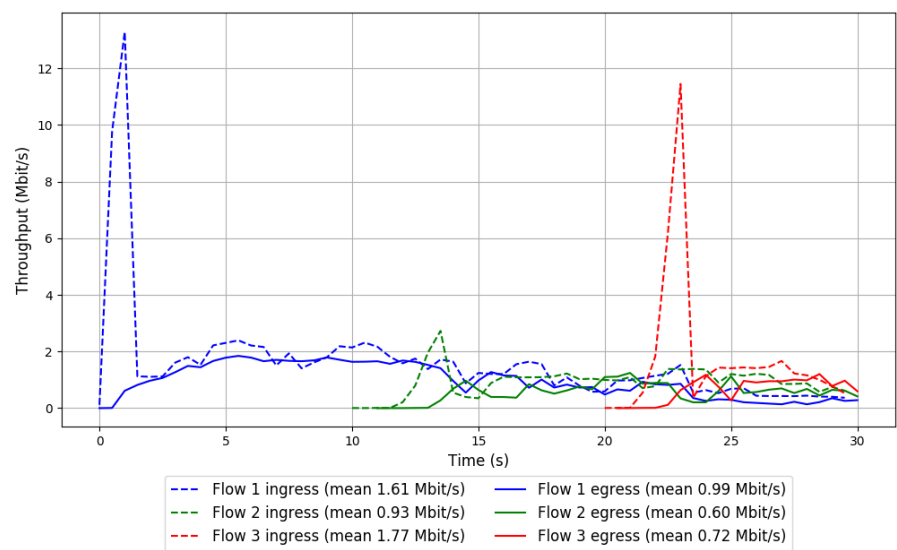
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 843.696 ms

Loss rate: 62.30%

Run 3: Report of FillP — Data Link

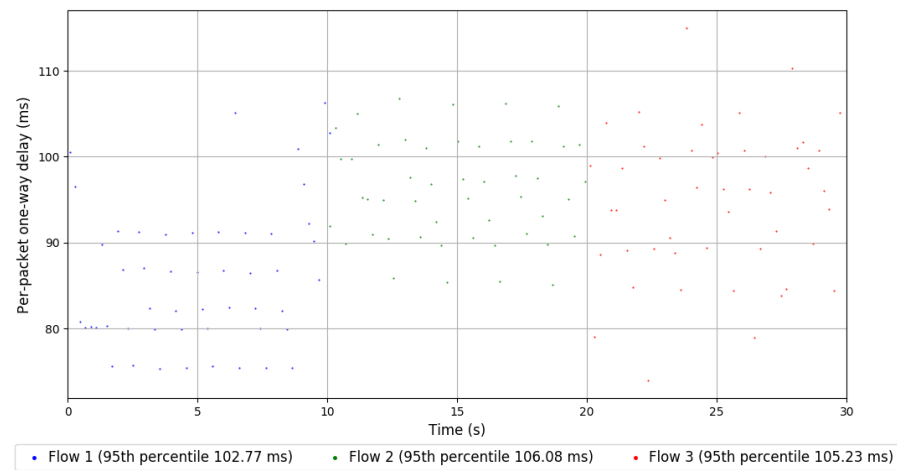
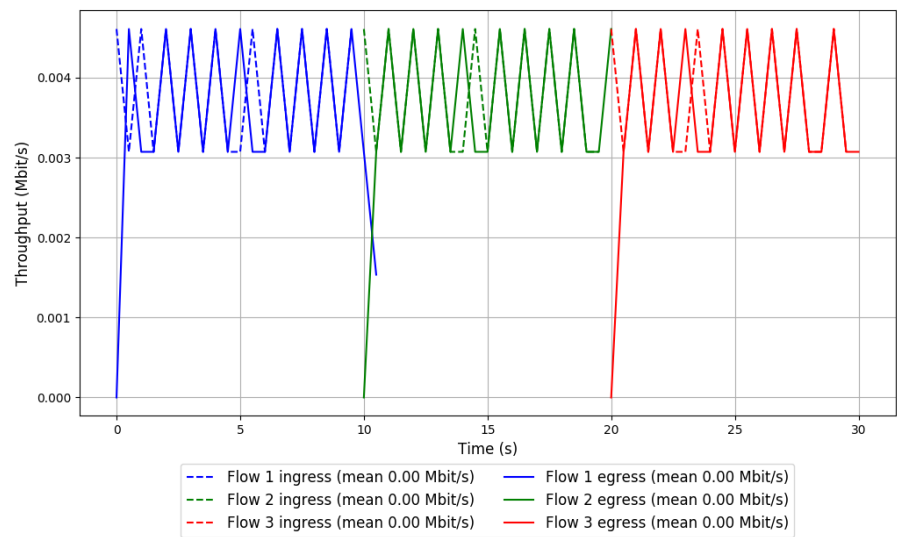


Run 1: Statistics of FillP-Sheep

Start at: 2018-06-30 12:53:39  
End at: 2018-06-30 12:54:09  
Local clock offset: 1.527 ms  
Remote clock offset: -9.024 ms

# Below is generated by plot.py at 2018-06-30 13:55:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 105.229 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 102.769 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 106.082 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 105.229 ms  
Loss rate: 2.04%

Run 1: Report of FillP-Sheep — Data Link

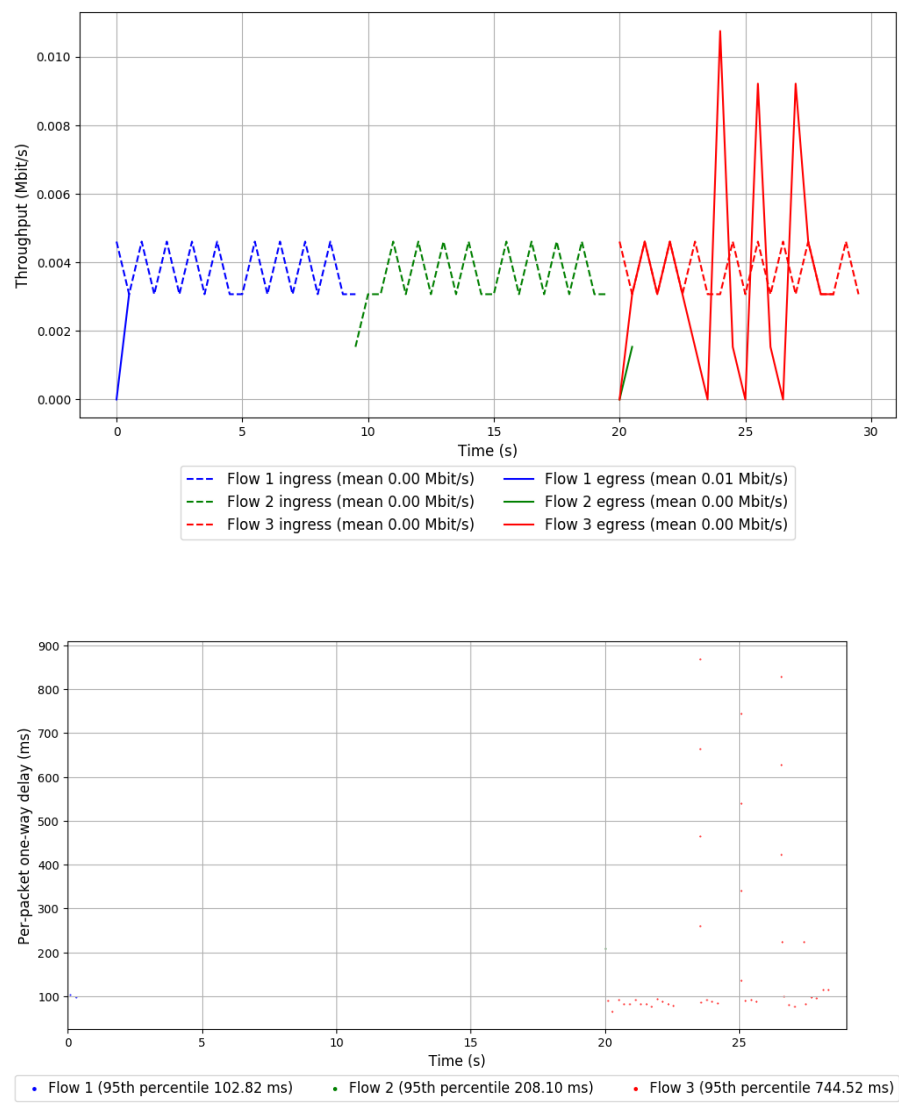


Run 2: Statistics of FillP-Sheep

Start at: 2018-06-30 13:18:16  
End at: 2018-06-30 13:18:46  
Local clock offset: 8.133 ms  
Remote clock offset: -9.924 ms

# Below is generated by plot.py at 2018-06-30 13:55:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 744.516 ms  
Loss rate: 70.07%  
-- Flow 1:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 102.821 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 208.102 ms  
Loss rate: 97.96%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 744.516 ms  
Loss rate: 16.33%

Run 2: Report of FillP-Sheep — Data Link



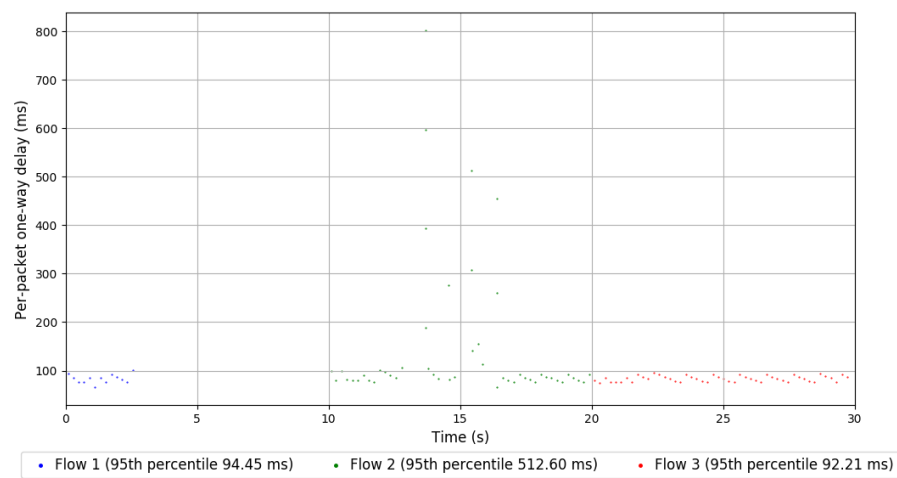
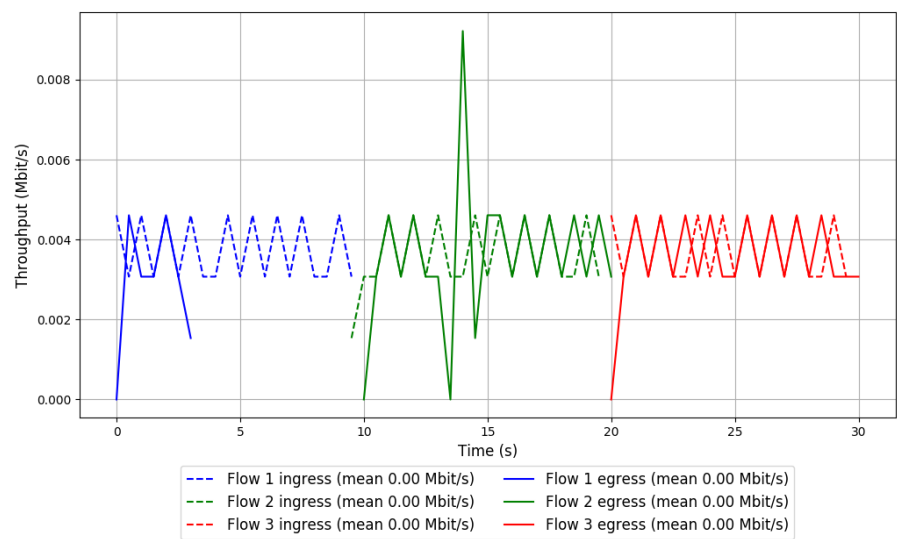
Run 3: Statistics of FillP-Sheep

Start at: 2018-06-30 13:41:41  
End at: 2018-06-30 13:42:11  
Local clock offset: 9.568 ms  
Remote clock offset: -9.196 ms

# Below is generated by plot.py at 2018-06-30 13:55:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 308.155 ms  
Loss rate: 25.17%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 94.447 ms  
Loss rate: 73.47%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 512.597 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 92.212 ms  
Loss rate: 2.04%



Run 3: Report of FillP-Sheep — Data Link

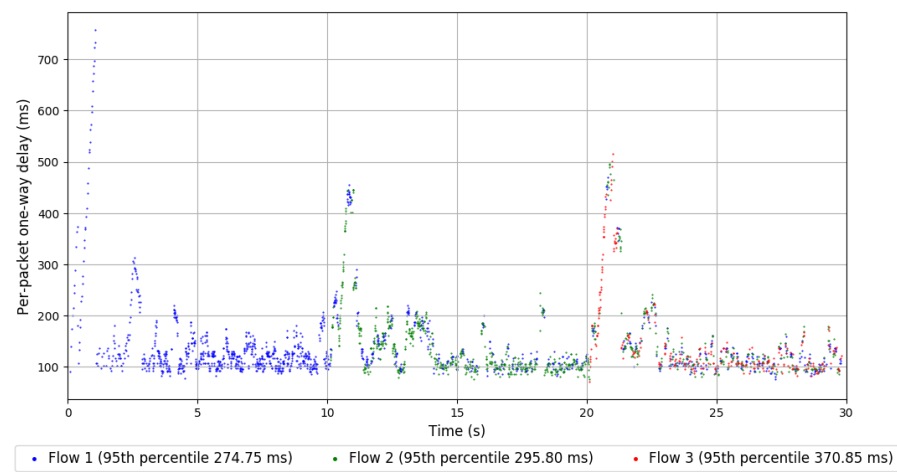
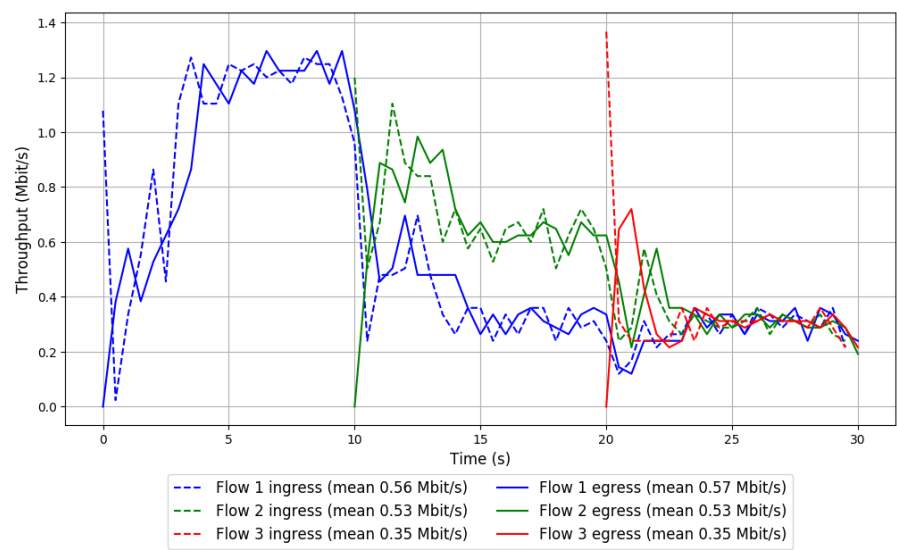


```
Run 1: Statistics of Indigo

Start at: 2018-06-30 12:59:00
End at: 2018-06-30 12:59:30
Local clock offset: 4.541 ms
Remote clock offset: -9.483 ms

# Below is generated by plot.py at 2018-06-30 13:55:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 325.879 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 274.751 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 295.796 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 370.854 ms
Loss rate: 1.38%
```

Run 1: Report of Indigo — Data Link

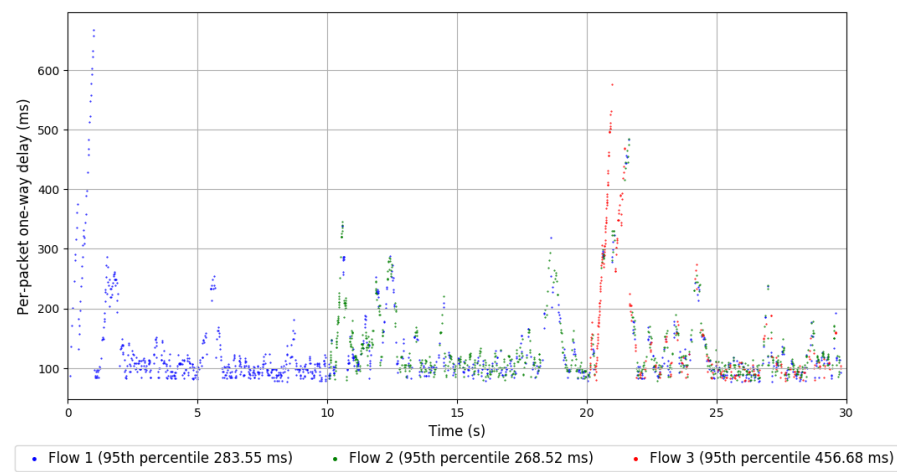
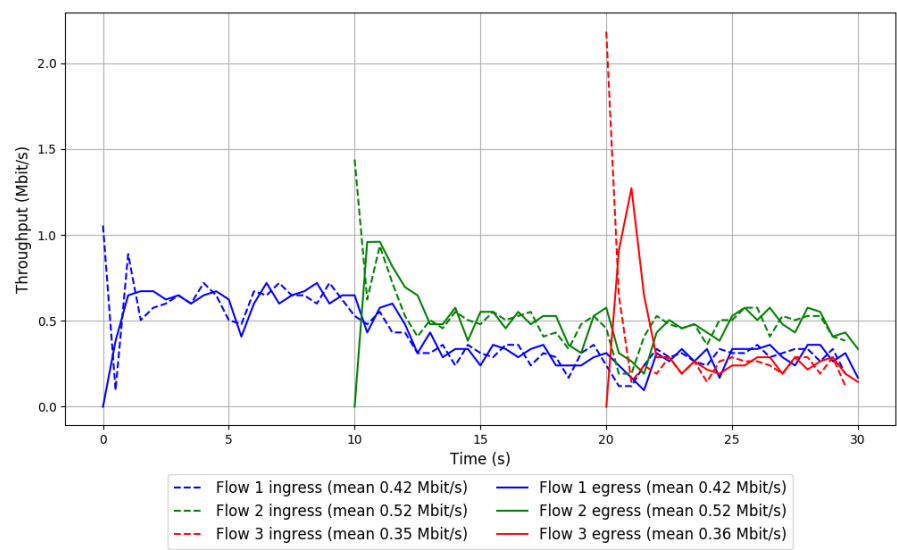


Run 2: Statistics of Indigo

Start at: 2018-06-30 13:23:36  
End at: 2018-06-30 13:24:06  
Local clock offset: 8.423 ms  
Remote clock offset: -10.052 ms

# Below is generated by plot.py at 2018-06-30 13:55:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.88 Mbit/s  
95th percentile per-packet one-way delay: 314.220 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 283.551 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 268.520 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 456.676 ms  
Loss rate: 1.03%

Run 2: Report of Indigo — Data Link

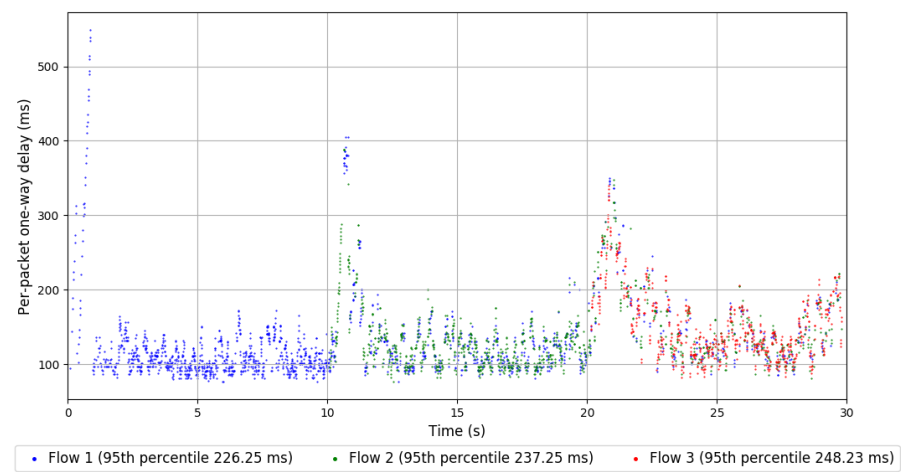
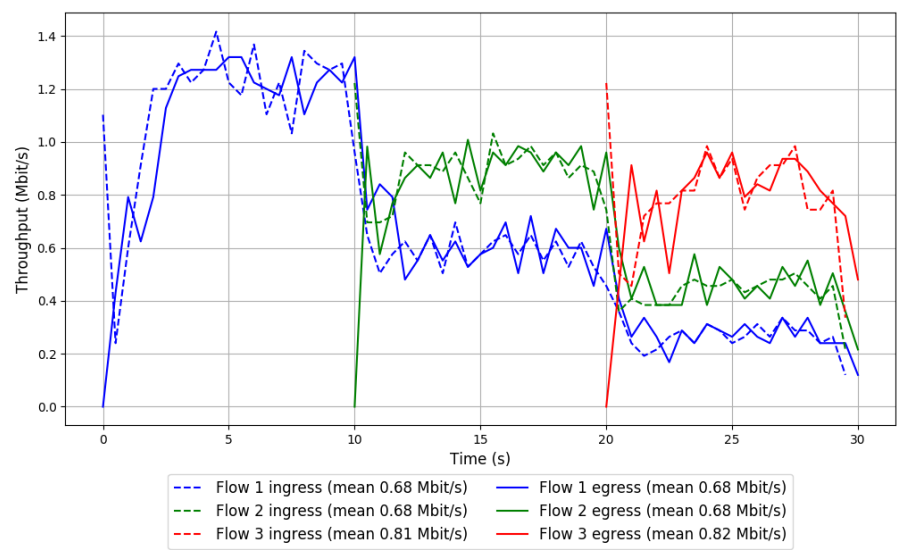


Run 3: Statistics of Indigo

Start at: 2018-06-30 13:47:04  
End at: 2018-06-30 13:47:34  
Local clock offset: 8.161 ms  
Remote clock offset: -9.121 ms

# Below is generated by plot.py at 2018-06-30 13:55:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.39 Mbit/s  
95th percentile per-packet one-way delay: 241.682 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 226.246 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 237.254 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 0.82 Mbit/s  
95th percentile per-packet one-way delay: 248.234 ms  
Loss rate: 0.91%

Run 3: Report of Indigo — Data Link



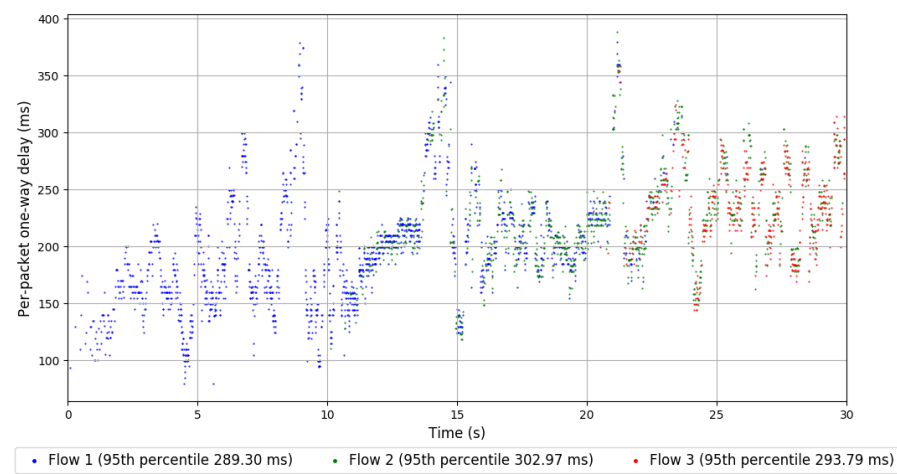
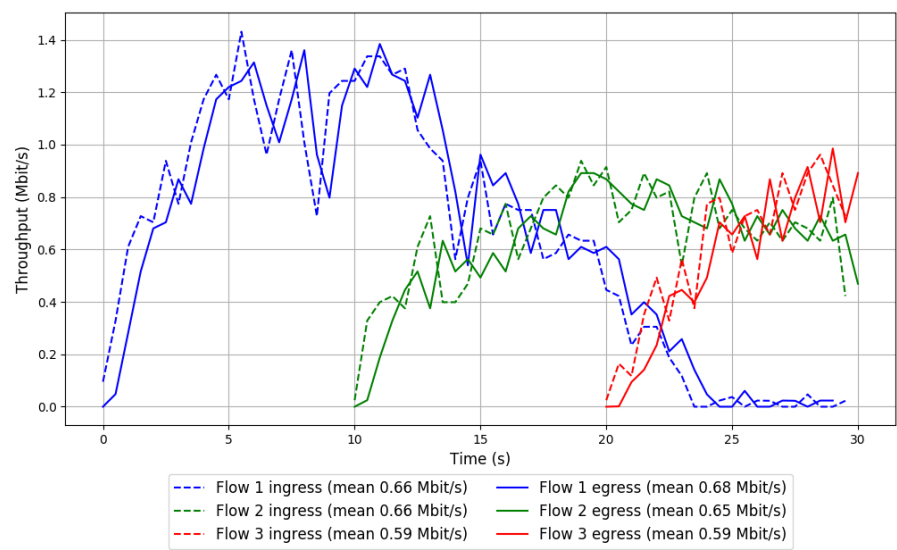
Run 1: Statistics of LEDBAT

Start at: 2018-06-30 13:03:02  
End at: 2018-06-30 13:03:32  
Local clock offset: 5.856 ms  
Remote clock offset: -9.575 ms

# Below is generated by plot.py at 2018-06-30 13:55:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.28 Mbit/s  
95th percentile per-packet one-way delay: 297.813 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 289.304 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 0.65 Mbit/s  
95th percentile per-packet one-way delay: 302.966 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 293.786 ms  
Loss rate: 3.39%



Run 1: Report of LEDBAT — Data Link

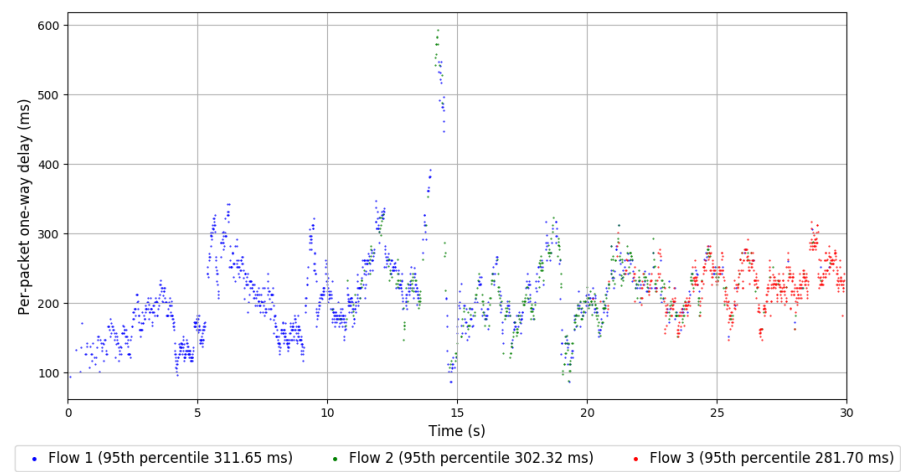
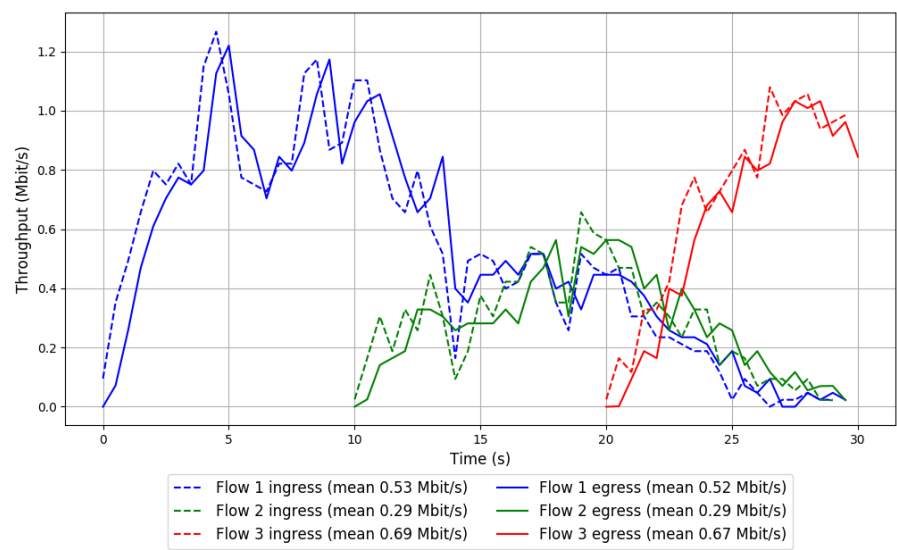


Run 2: Statistics of LEDBAT

Start at: 2018-06-30 13:27:35  
End at: 2018-06-30 13:28:05  
Local clock offset: 8.492 ms  
Remote clock offset: -10.001 ms

# Below is generated by plot.py at 2018-06-30 13:55:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.92 Mbit/s  
95th percentile per-packet one-way delay: 301.614 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 311.649 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 302.316 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.67 Mbit/s  
95th percentile per-packet one-way delay: 281.697 ms  
Loss rate: 4.62%

Run 2: Report of LEDBAT — Data Link

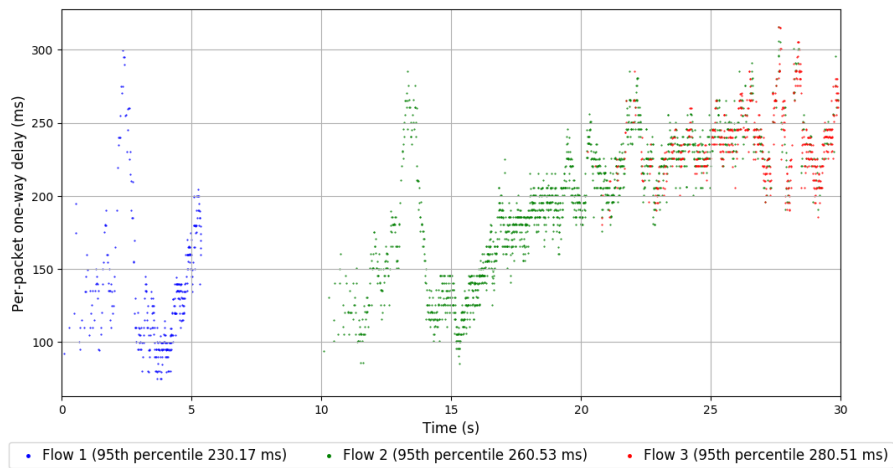
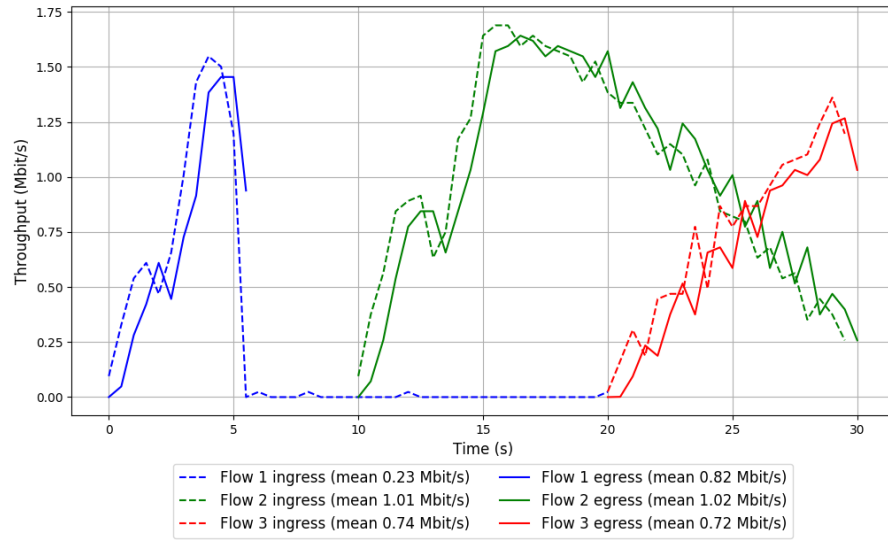


Run 3: Statistics of LEDBAT

Start at: 2018-06-30 13:51:06  
End at: 2018-06-30 13:51:36  
Local clock offset: 5.304 ms  
Remote clock offset: -8.995 ms

# Below is generated by plot.py at 2018-06-30 13:55:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.05 Mbit/s  
95th percentile per-packet one-way delay: 265.648 ms  
Loss rate: 2.76%  
-- Flow 1:  
Average throughput: 0.82 Mbit/s  
95th percentile per-packet one-way delay: 230.169 ms  
Loss rate: 8.41%  
-- Flow 2:  
Average throughput: 1.02 Mbit/s  
95th percentile per-packet one-way delay: 260.534 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 0.72 Mbit/s  
95th percentile per-packet one-way delay: 280.508 ms  
Loss rate: 5.58%

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

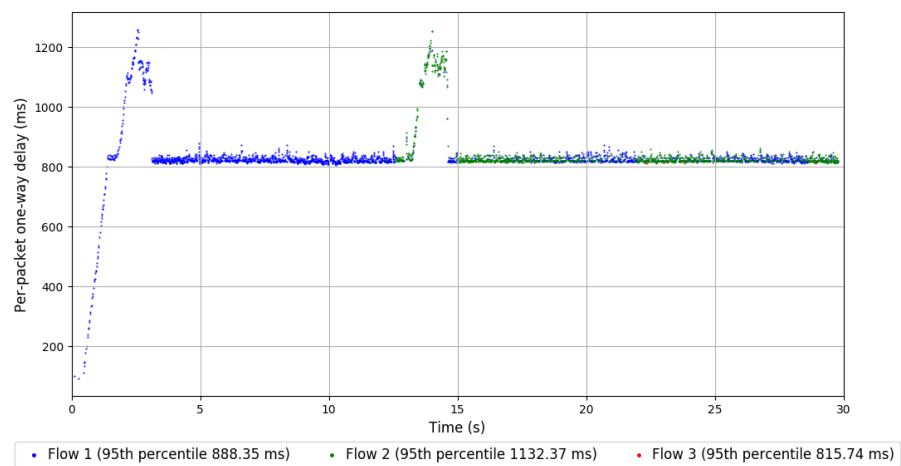
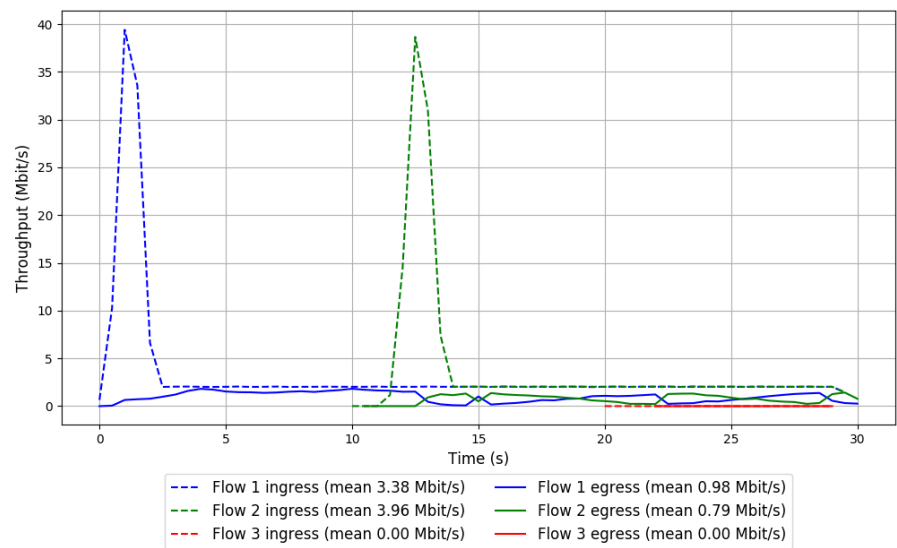


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-30 13:04:22
End at: 2018-06-30 13:04:52
Local clock offset: 6.278 ms
Remote clock offset: -9.659 ms

# Below is generated by plot.py at 2018-06-30 13:55:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 1082.032 ms
Loss rate: 75.35%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 888.351 ms
Loss rate: 71.02%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 1132.368 ms
Loss rate: 80.90%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 815.735 ms
Loss rate: 83.46%
```

Run 1: Report of PCC-Allegro — Data Link



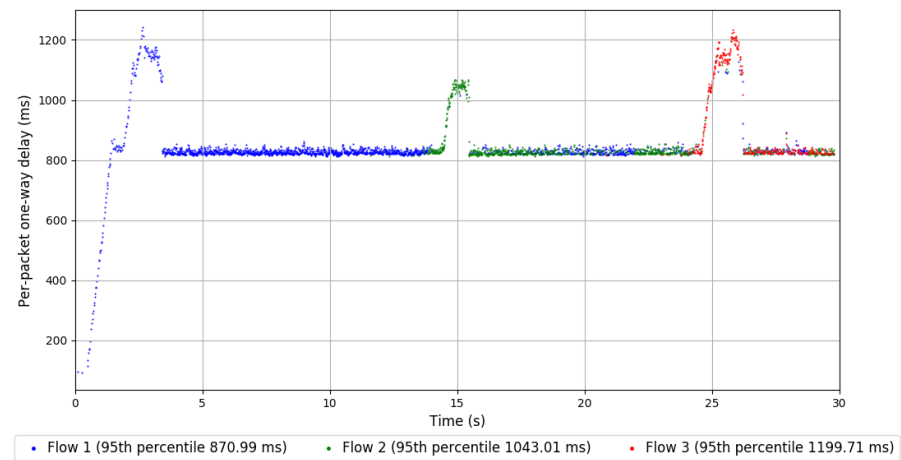
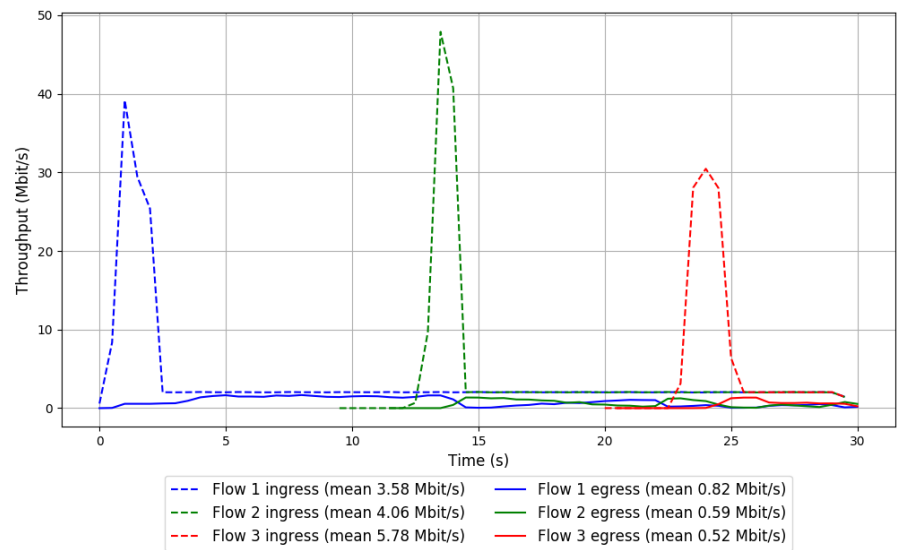
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-30 13:28:55  
End at: 2018-06-30 13:29:25  
Local clock offset: 8.44 ms  
Remote clock offset: -10.022 ms

# Below is generated by plot.py at 2018-06-30 13:55:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.34 Mbit/s  
95th percentile per-packet one-way delay: 1113.589 ms  
Loss rate: 83.76%  
-- Flow 1:  
Average throughput: 0.82 Mbit/s  
95th percentile per-packet one-way delay: 870.990 ms  
Loss rate: 77.28%  
-- Flow 2:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 1043.007 ms  
Loss rate: 86.61%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 1199.707 ms  
Loss rate: 91.91%



Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

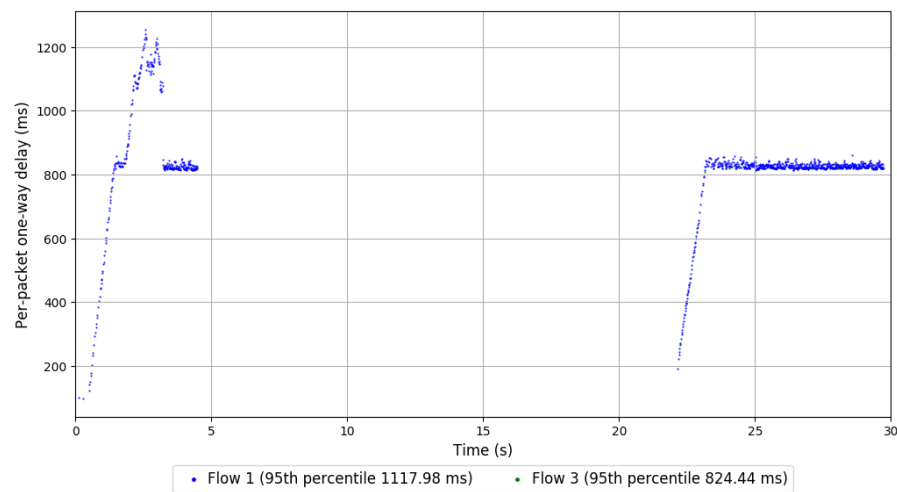
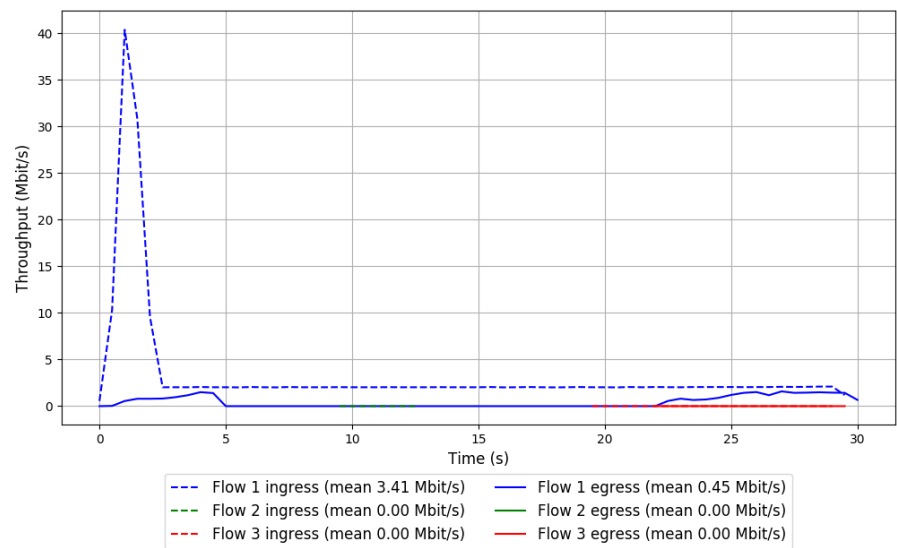
Start at: 2018-06-30 13:52:27

End at: 2018-06-30 13:52:57

Local clock offset: 4.486 ms

Remote clock offset: -8.901 ms

Run 3: Report of PCC-Allegro — Data Link

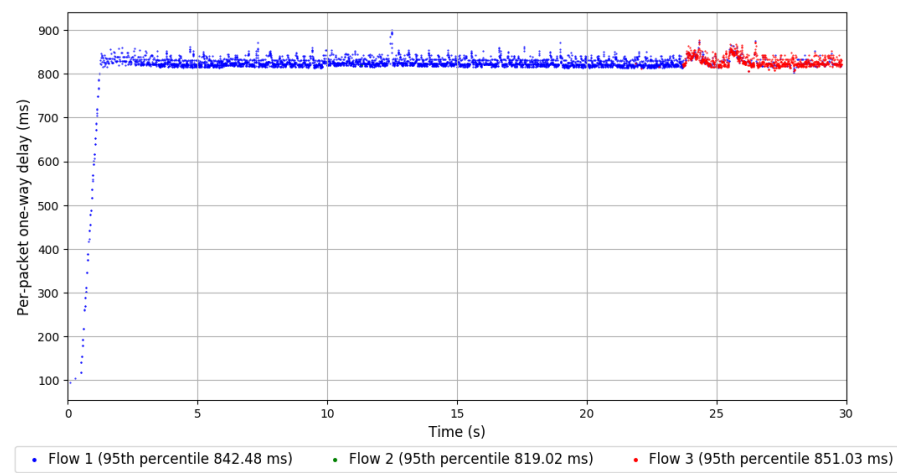
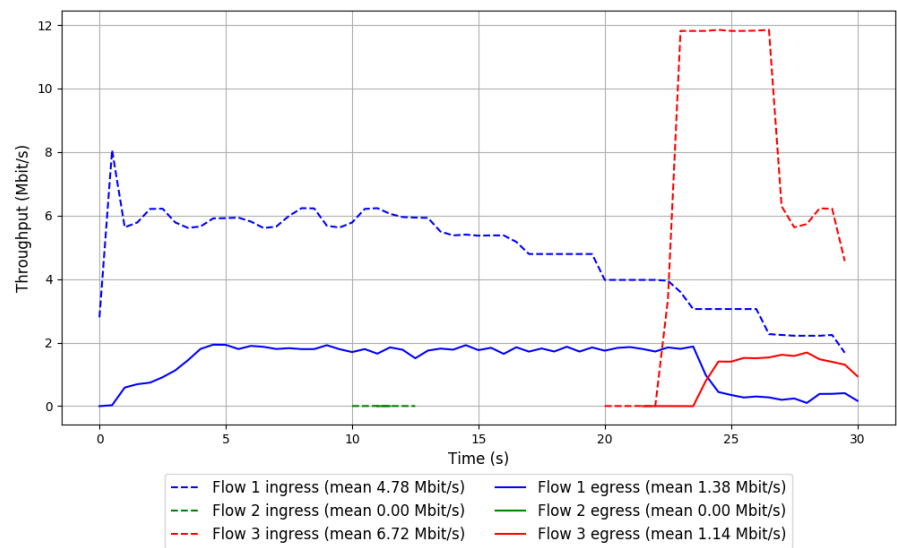


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-30 12:43:30
End at: 2018-06-30 12:44:00
Local clock offset: -6.27 ms
Remote clock offset: -9.416 ms

# Below is generated by plot.py at 2018-06-30 13:55:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 844.900 ms
Loss rate: 76.04%
-- Flow 1:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 842.478 ms
Loss rate: 71.28%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 819.023 ms
Loss rate: 92.31%
-- Flow 3:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 851.026 ms
Loss rate: 86.30%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

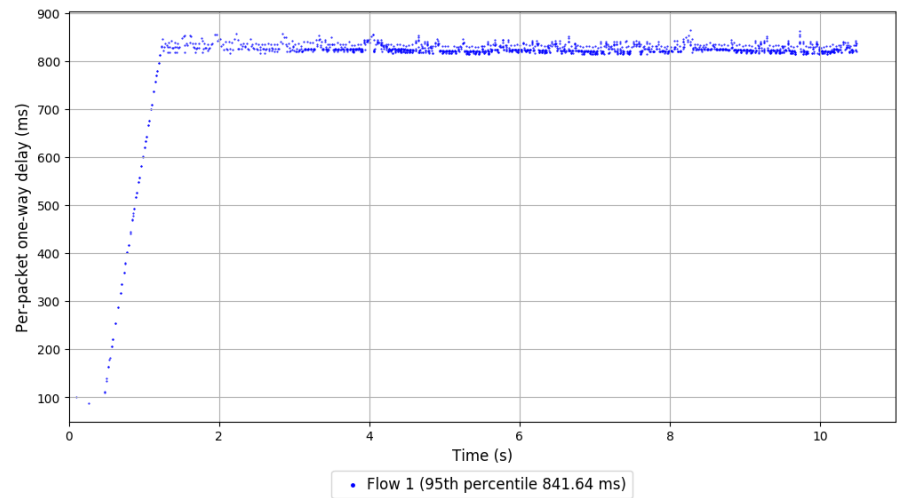
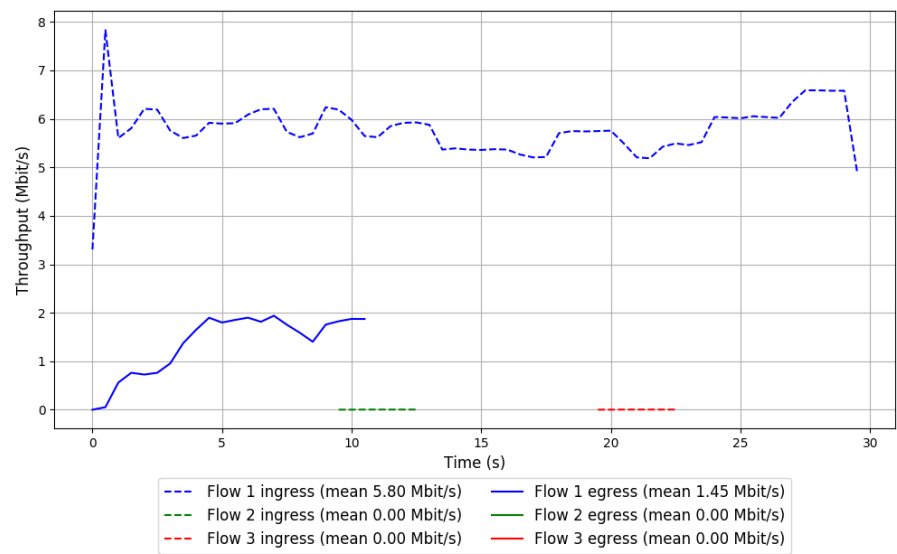
Start at: 2018-06-30 13:09:00

End at: 2018-06-30 13:09:30

Local clock offset: 7.065 ms

Remote clock offset: -9.705 ms

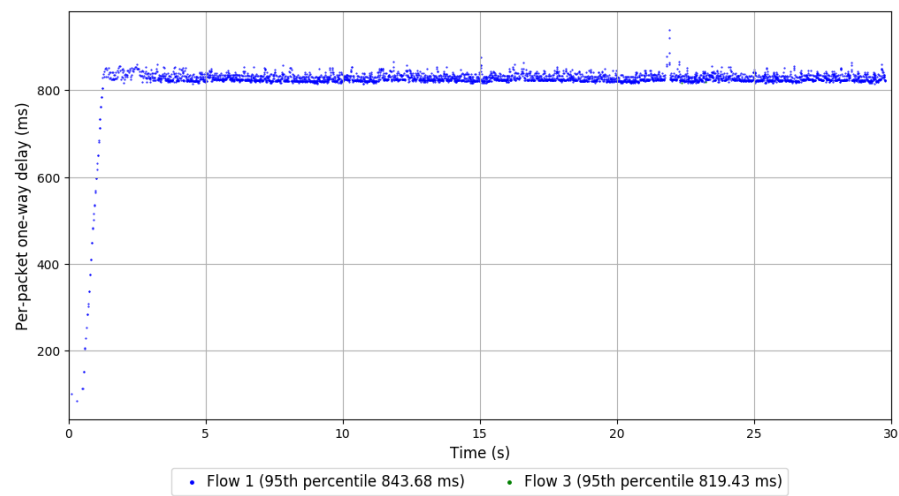
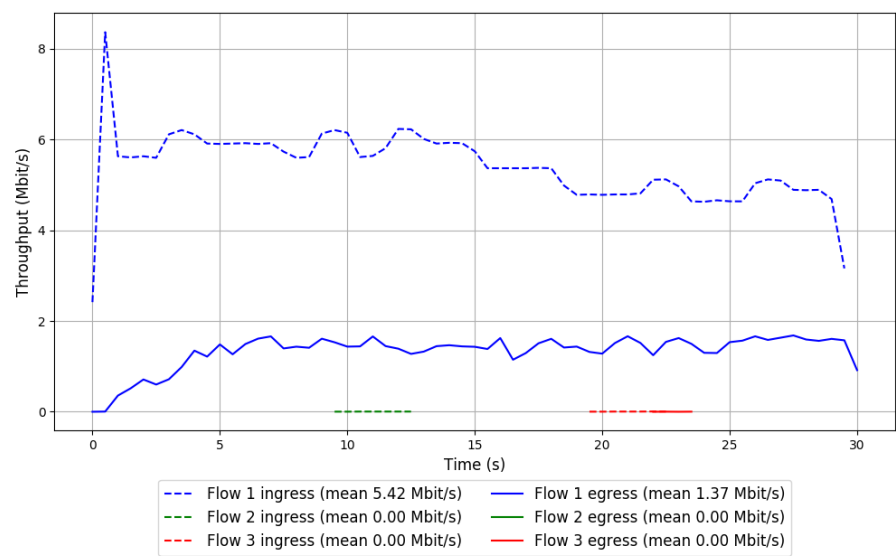
Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr  
  
Start at: 2018-06-30 13:33:07  
End at: 2018-06-30 13:33:37  
Local clock offset: 8.841 ms  
Remote clock offset: -10.076 ms



Run 3: Report of PCC-Expr — Data Link

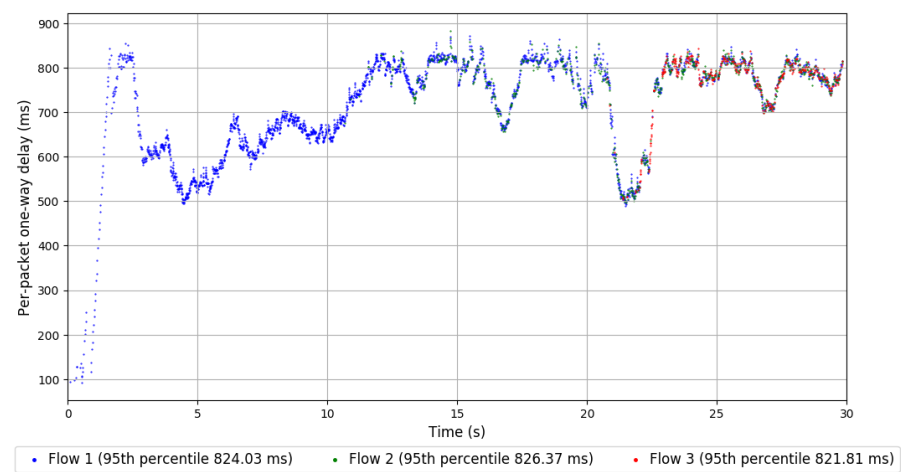
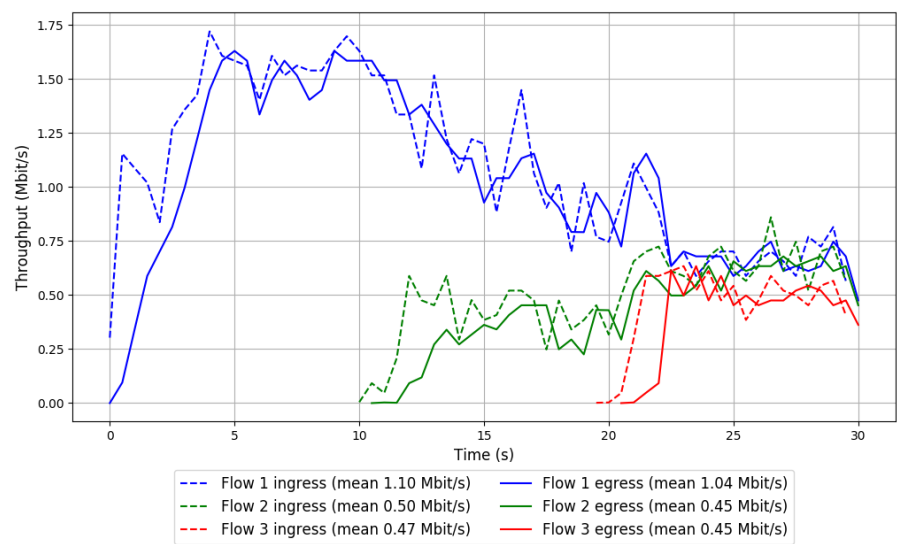


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-30 12:46:07  
End at: 2018-06-30 12:46:37  
Local clock offset: -6.336 ms  
Remote clock offset: -9.116 ms

# Below is generated by plot.py at 2018-06-30 13:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 824.744 ms  
Loss rate: 8.64%  
-- Flow 1:  
Average throughput: 1.04 Mbit/s  
95th percentile per-packet one-way delay: 824.032 ms  
Loss rate: 6.23%  
-- Flow 2:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 826.371 ms  
Loss rate: 14.70%  
-- Flow 3:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 821.809 ms  
Loss rate: 12.58%

Run 1: Report of QUIC Cubic — Data Link

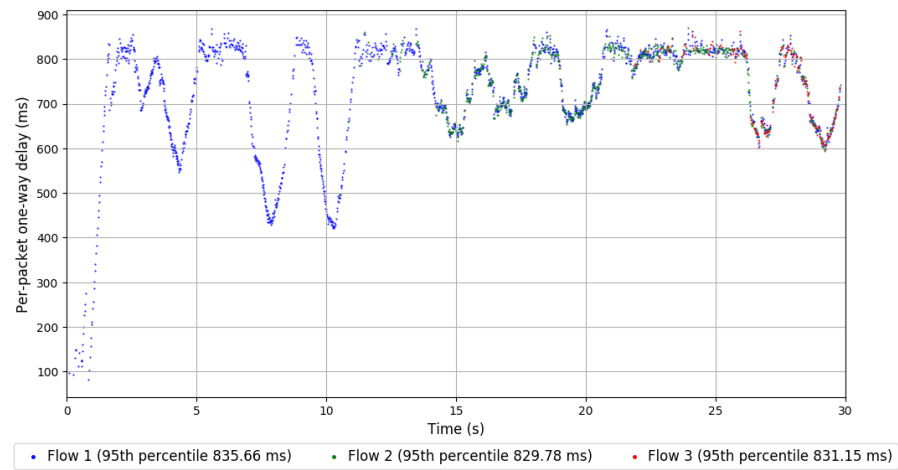
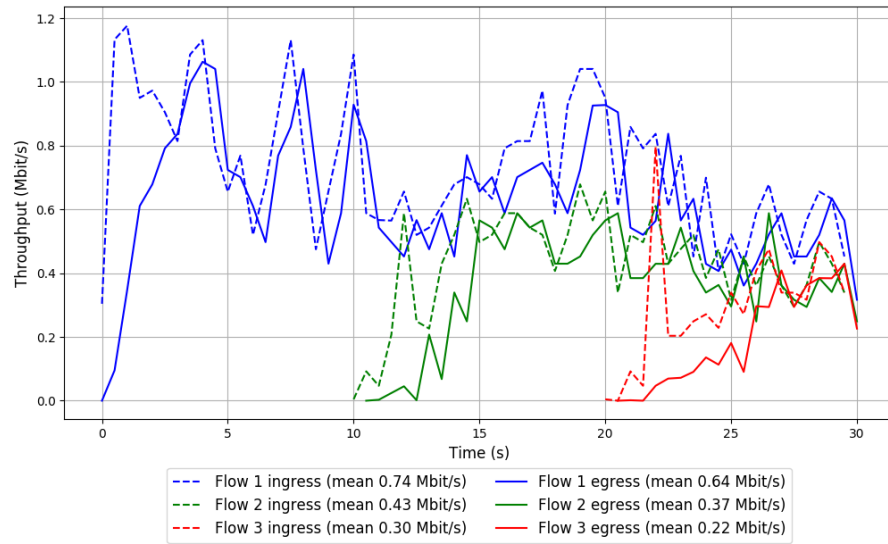


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-30 13:10:34  
End at: 2018-06-30 13:11:04  
Local clock offset: 7.293 ms  
Remote clock offset: -9.756 ms

# Below is generated by plot.py at 2018-06-30 13:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.95 Mbit/s  
95th percentile per-packet one-way delay: 833.230 ms  
Loss rate: 15.73%  
-- Flow 1:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 835.662 ms  
Loss rate: 13.17%  
-- Flow 2:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 829.784 ms  
Loss rate: 16.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 831.148 ms  
Loss rate: 33.94%

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

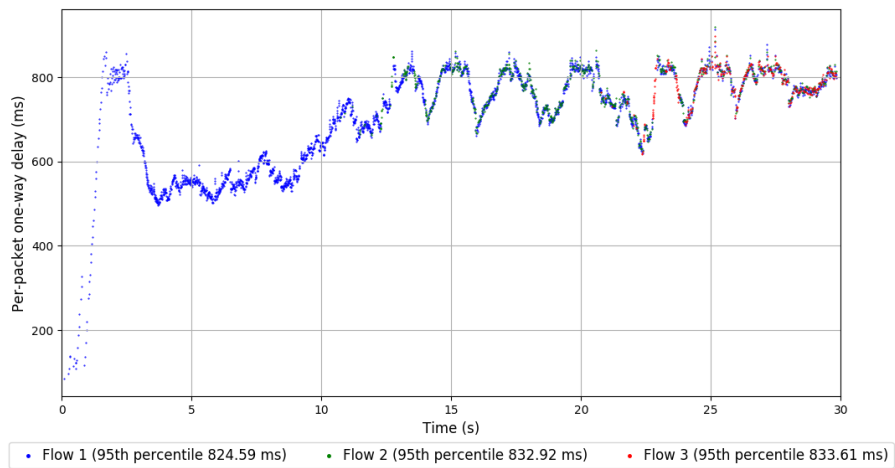
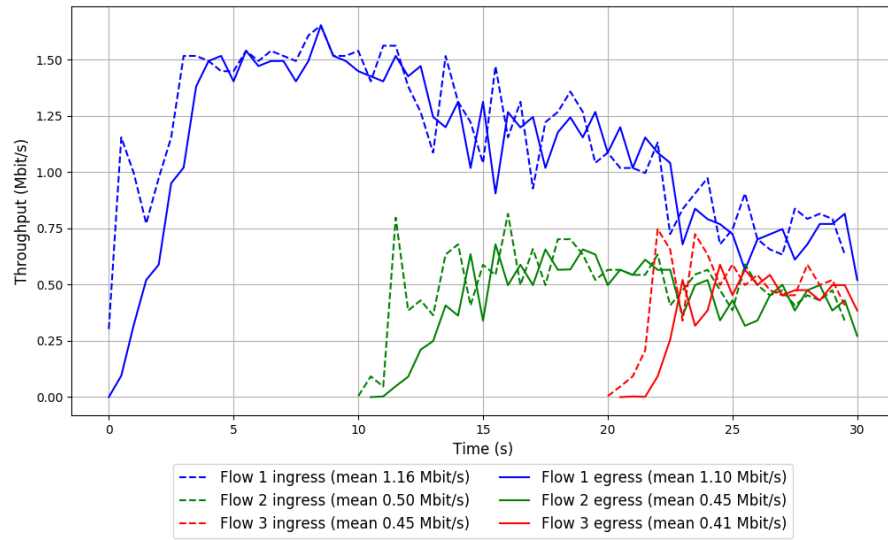


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-30 13:34:39  
End at: 2018-06-30 13:35:09  
Local clock offset: 8.823 ms  
Remote clock offset: -10.108 ms

# Below is generated by plot.py at 2018-06-30 13:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.51 Mbit/s  
95th percentile per-packet one-way delay: 827.473 ms  
Loss rate: 8.32%  
-- Flow 1:  
Average throughput: 1.10 Mbit/s  
95th percentile per-packet one-way delay: 824.585 ms  
Loss rate: 5.83%  
-- Flow 2:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 832.917 ms  
Loss rate: 13.02%  
-- Flow 3:  
Average throughput: 0.41 Mbit/s  
95th percentile per-packet one-way delay: 833.614 ms  
Loss rate: 17.15%

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



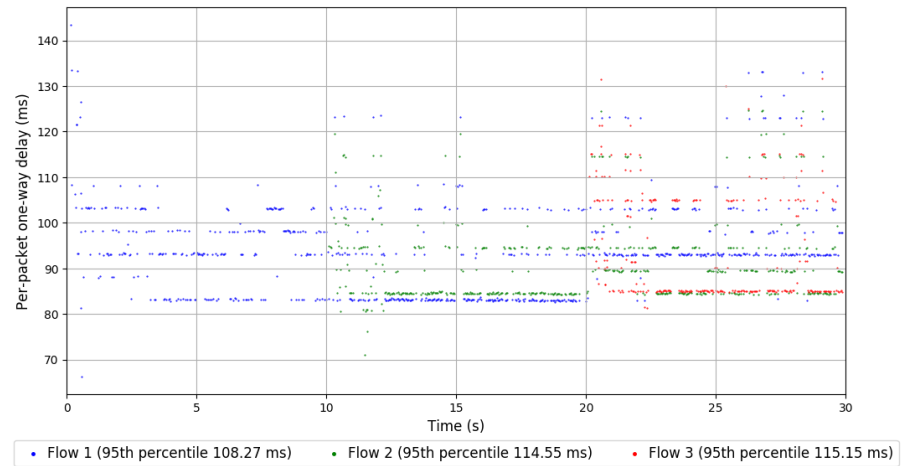
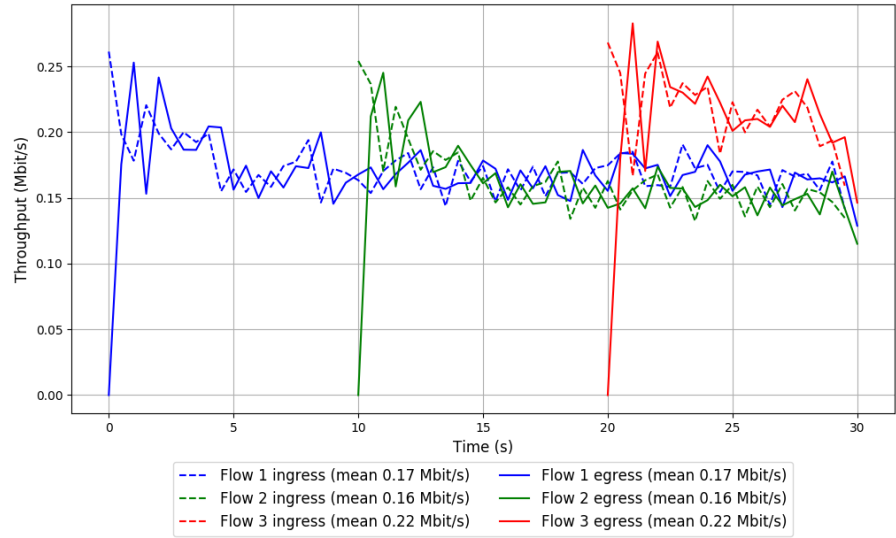
Run 1: Statistics of SCReAM

Start at: 2018-06-30 12:54:57  
End at: 2018-06-30 12:55:27  
Local clock offset: 2.489 ms  
Remote clock offset: -9.481 ms

# Below is generated by plot.py at 2018-06-30 13:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 114.633 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 108.269 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 114.552 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 115.147 ms  
Loss rate: 1.27%



# Run 1: Report of SReAM — Data Link

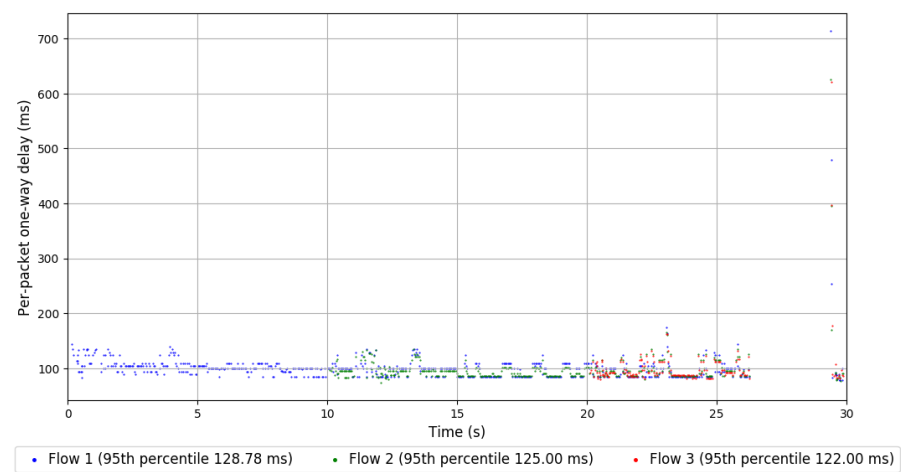
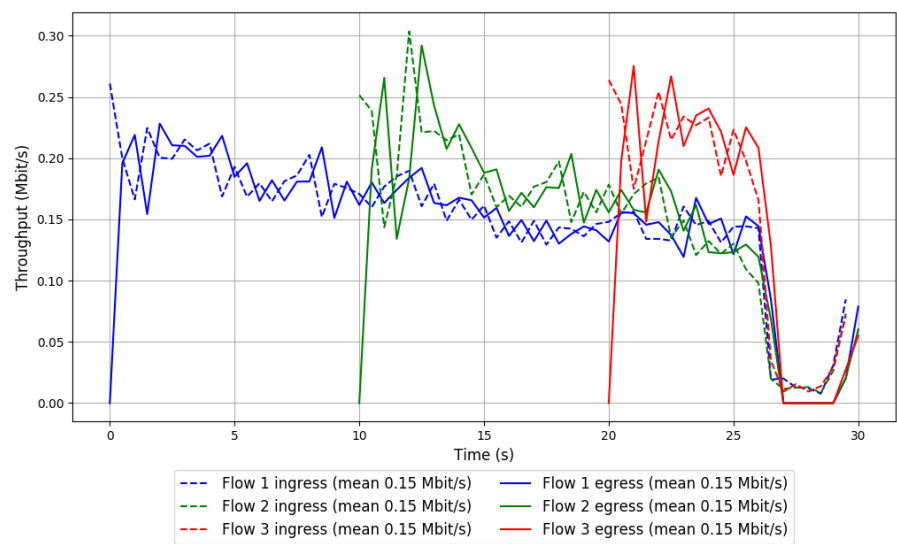


Run 2: Statistics of SCReAM

Start at: 2018-06-30 13:19:34  
End at: 2018-06-30 13:20:04  
Local clock offset: 8.181 ms  
Remote clock offset: -9.955 ms

# Below is generated by plot.py at 2018-06-30 13:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 125.214 ms  
Loss rate: 2.68%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 128.775 ms  
Loss rate: 1.90%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 124.995 ms  
Loss rate: 2.26%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 121.999 ms  
Loss rate: 5.82%

Run 2: Report of SReAM — Data Link

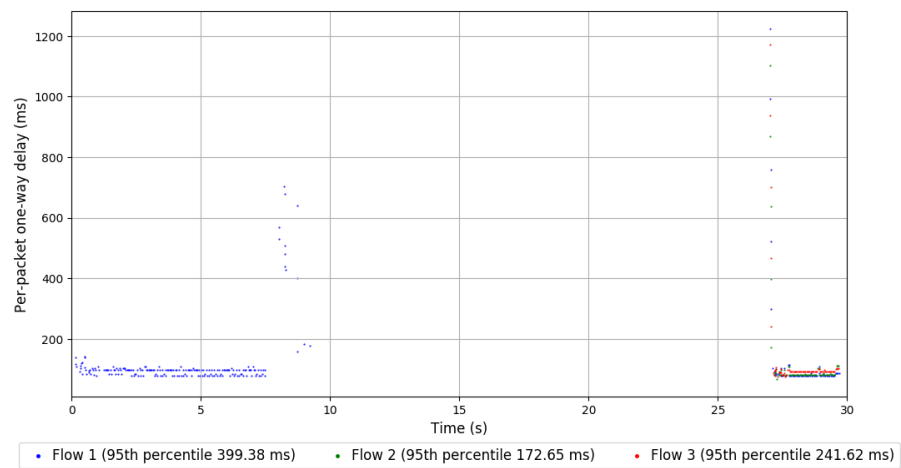
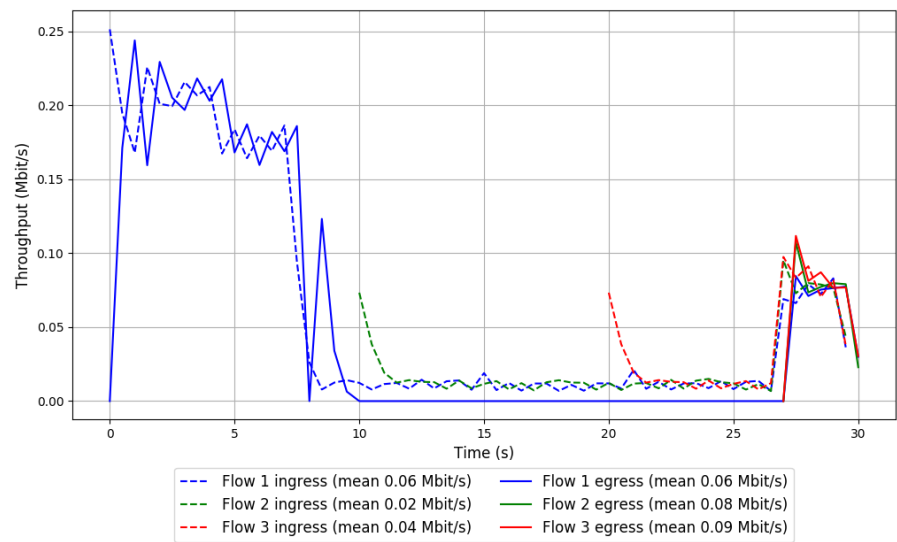


Run 3: Statistics of SReAM

Start at: 2018-06-30 13:42:59  
End at: 2018-06-30 13:43:29  
Local clock offset: 9.428 ms  
Remote clock offset: -9.367 ms

# Below is generated by plot.py at 2018-06-30 13:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 397.680 ms  
Loss rate: 20.56%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 399.385 ms  
Loss rate: 10.02%  
-- Flow 2:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 172.648 ms  
Loss rate: 52.62%  
-- Flow 3:  
Average throughput: 0.09 Mbit/s  
95th percentile per-packet one-way delay: 241.622 ms  
Loss rate: 35.71%

Run 3: Report of SReAM — Data Link

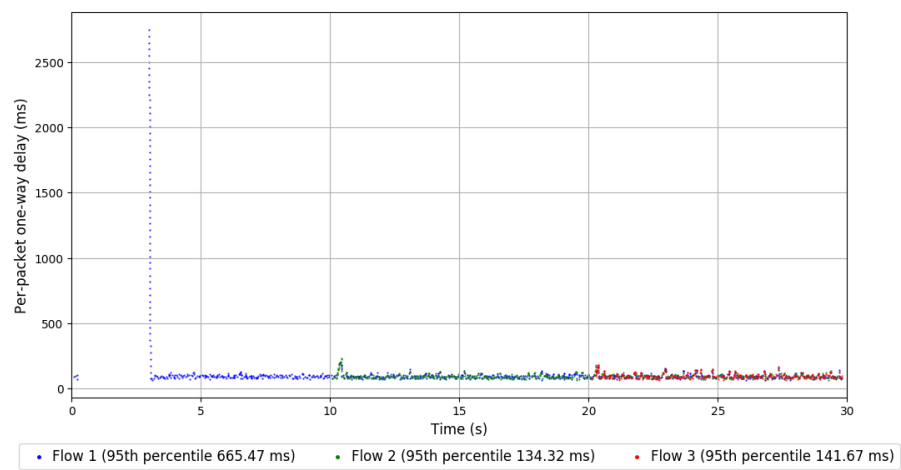
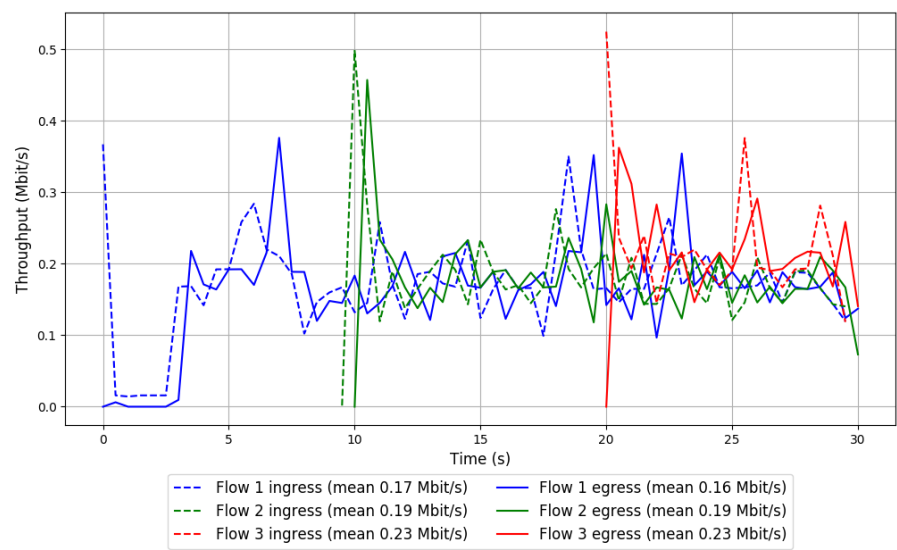


Run 1: Statistics of Sprout

Start at: 2018-06-30 13:00:21  
End at: 2018-06-30 13:00:51  
Local clock offset: 4.998 ms  
Remote clock offset: -9.286 ms

# Below is generated by plot.py at 2018-06-30 13:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 151.649 ms  
Loss rate: 2.25%  
-- Flow 1:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 665.470 ms  
Loss rate: 3.71%  
-- Flow 2:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 134.321 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 141.666 ms  
Loss rate: 1.06%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-30 13:24:56

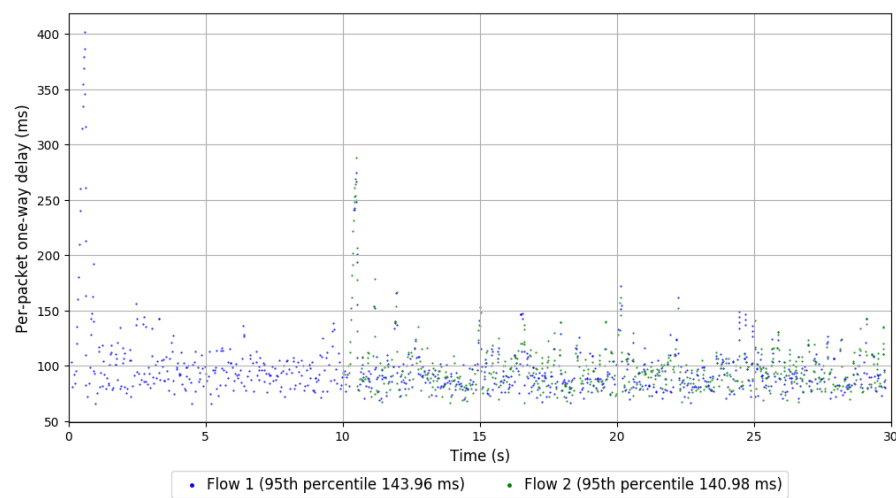
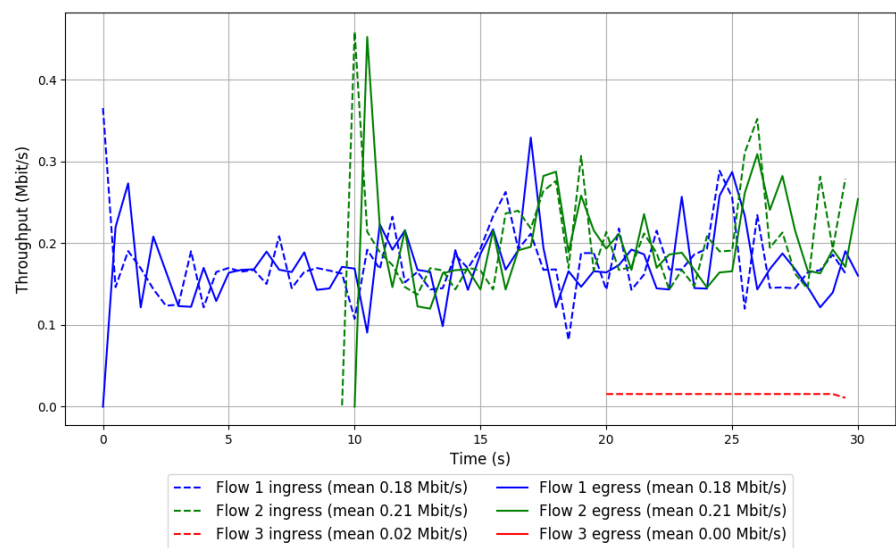
End at: 2018-06-30 13:25:26

Local clock offset: 8.521 ms

Remote clock offset: -10.123 ms



Run 2: Report of Sprout — Data Link

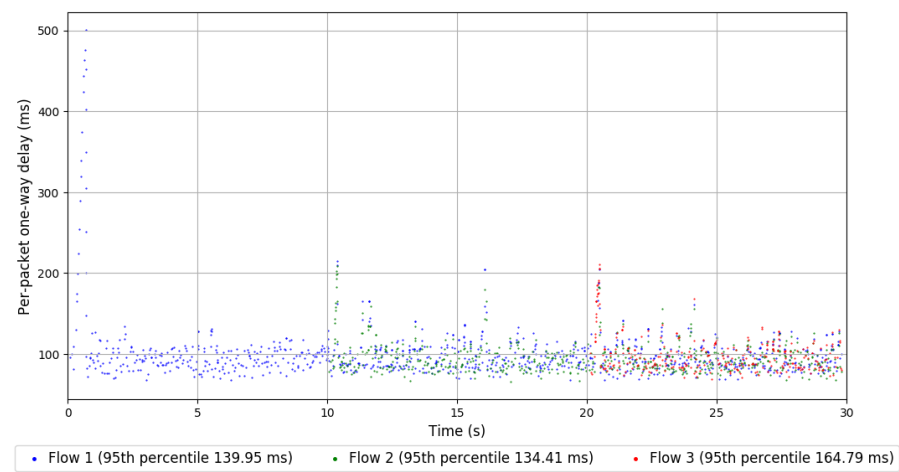
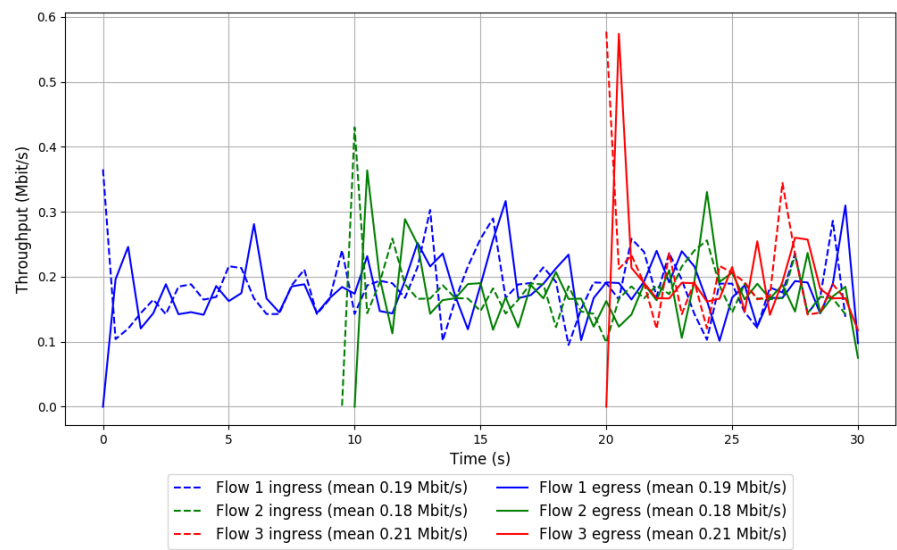


Run 3: Statistics of Sprout

Start at: 2018-06-30 13:48:26  
End at: 2018-06-30 13:48:56  
Local clock offset: 6.931 ms  
Remote clock offset: -9.014 ms

# Below is generated by plot.py at 2018-06-30 13:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 137.941 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 139.947 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 134.409 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 164.787 ms  
Loss rate: 1.73%

Run 3: Report of Sprout — Data Link

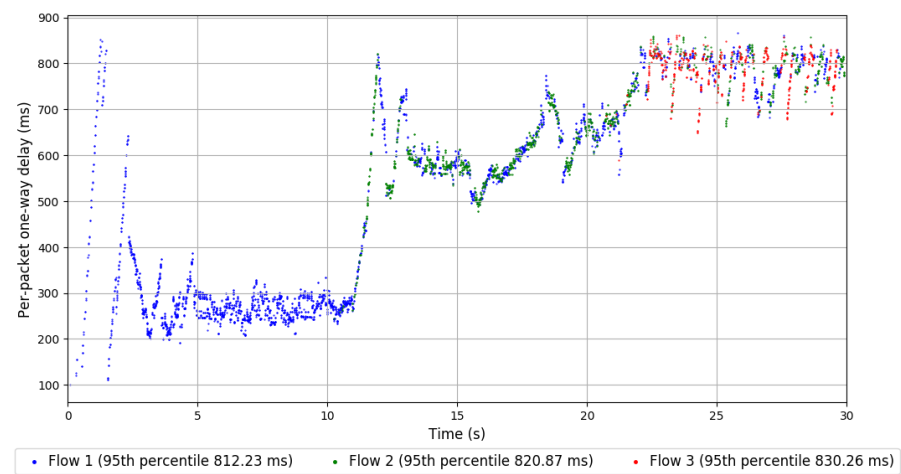
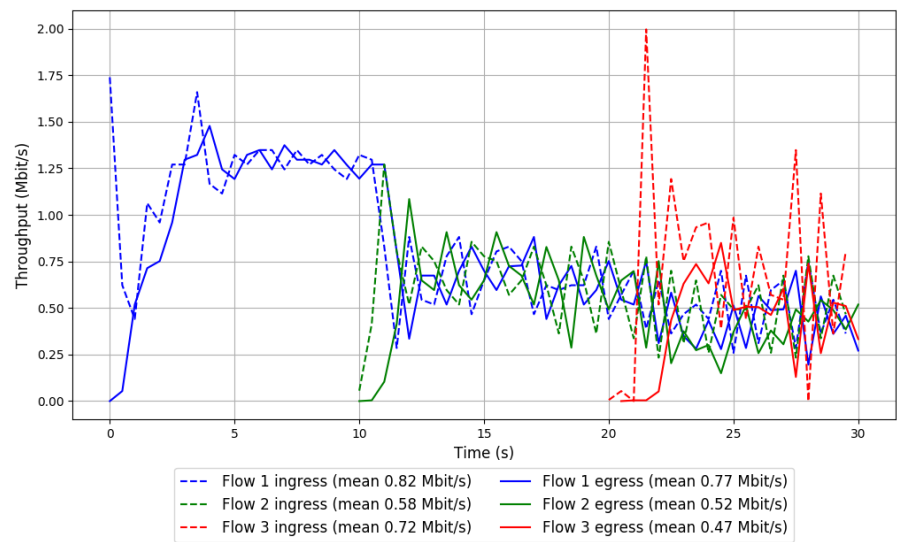


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-30 12:51:30  
End at: 2018-06-30 12:52:00  
Local clock offset: 0.121 ms  
Remote clock offset: -9.159 ms

# Below is generated by plot.py at 2018-06-30 13:55:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 818.964 ms  
Loss rate: 13.03%  
-- Flow 1:  
Average throughput: 0.77 Mbit/s  
95th percentile per-packet one-way delay: 812.225 ms  
Loss rate: 6.24%  
-- Flow 2:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 820.870 ms  
Loss rate: 11.82%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 830.259 ms  
Loss rate: 39.08%

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



Run 2: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-06-30T12-41-China-ppp0-to-AWS-Korea-3-runs-3-flows/taova\_sta

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

Figure is missing

Figure is missing

Run 3: Statistics of TaoVA-100x

Start at: 2018-06-30 13:40:03

End at: 2018-06-30 13:40:33

Local clock offset: 9.447 ms

Remote clock offset: -9.35 ms

# Below is generated by plot.py at 2018-06-30 13:55:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 795.036 ms

Loss rate: 12.69%

-- Flow 1:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 762.102 ms

Loss rate: 6.90%

-- Flow 2:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 813.033 ms

Loss rate: 10.42%

-- Flow 3:

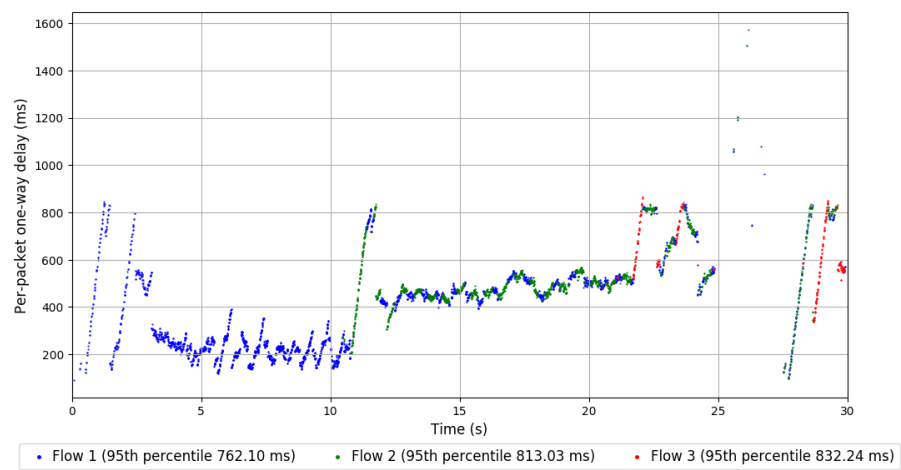
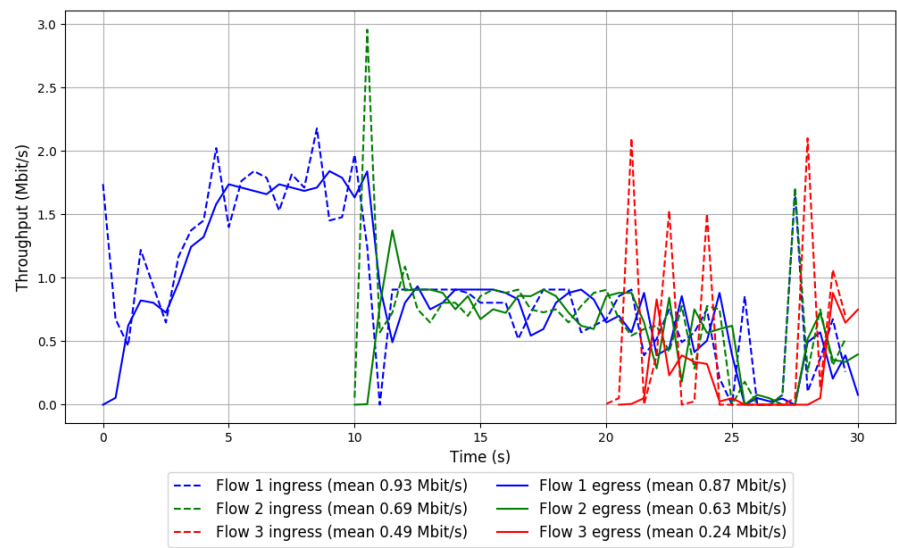
Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 832.241 ms

Loss rate: 52.61%



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

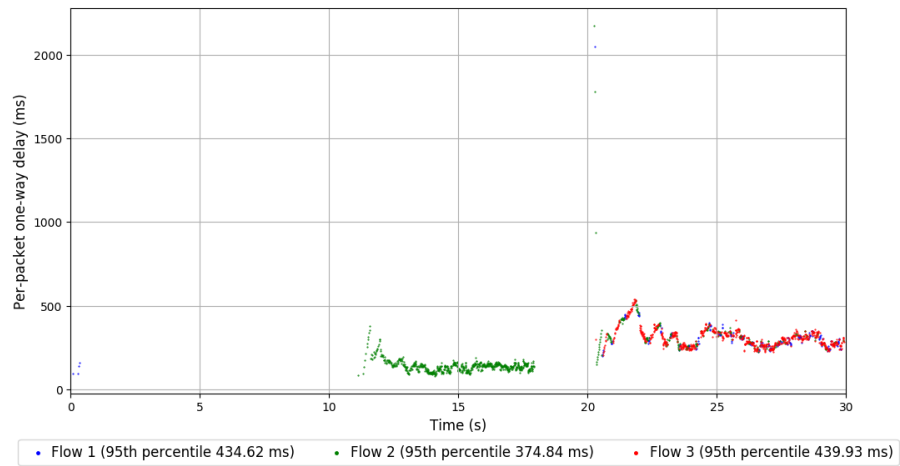
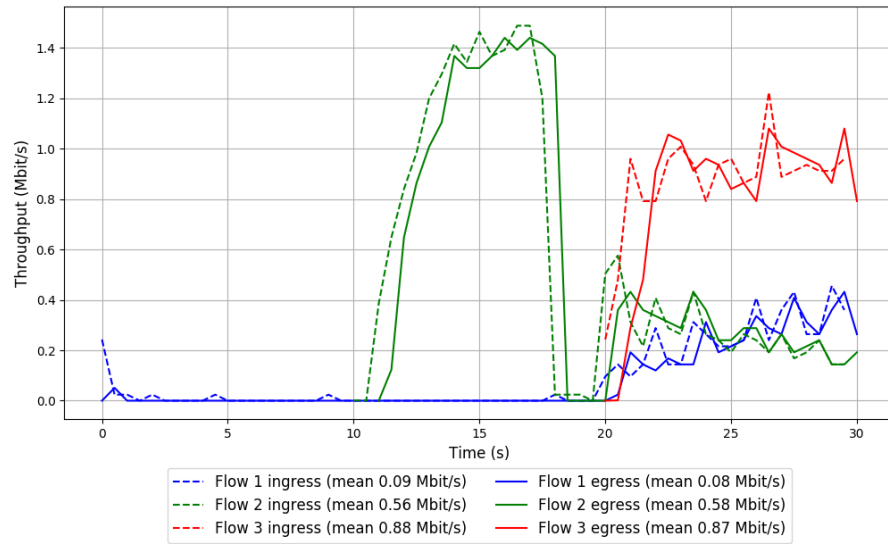


Run 1: Statistics of TCP Vegas

Start at: 2018-06-30 12:56:16  
End at: 2018-06-30 12:56:46  
Local clock offset: 3.463 ms  
Remote clock offset: -9.144 ms

# Below is generated by plot.py at 2018-06-30 13:55:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.73 Mbit/s  
95th percentile per-packet one-way delay: 394.943 ms  
Loss rate: 3.58%  
-- Flow 1:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 434.619 ms  
Loss rate: 10.96%  
-- Flow 2:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 374.840 ms  
Loss rate: 1.96%  
-- Flow 3:  
Average throughput: 0.87 Mbit/s  
95th percentile per-packet one-way delay: 439.933 ms  
Loss rate: 3.32%

# Run 1: Report of TCP Vegas — Data Link

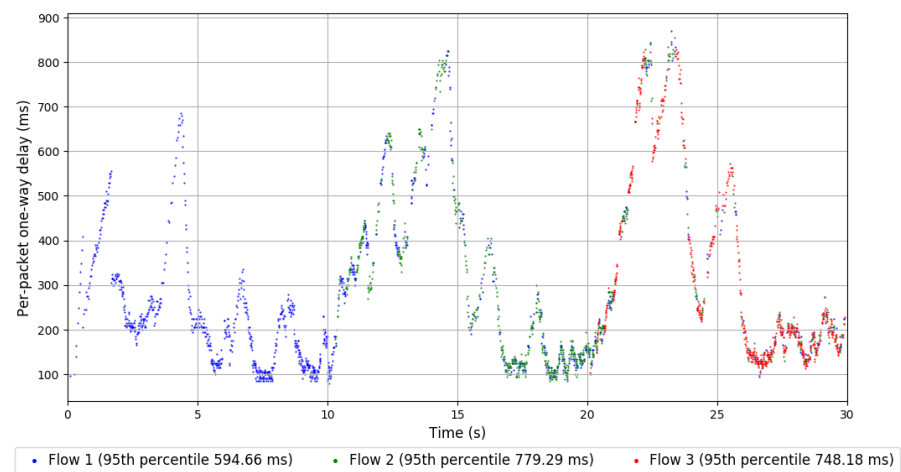
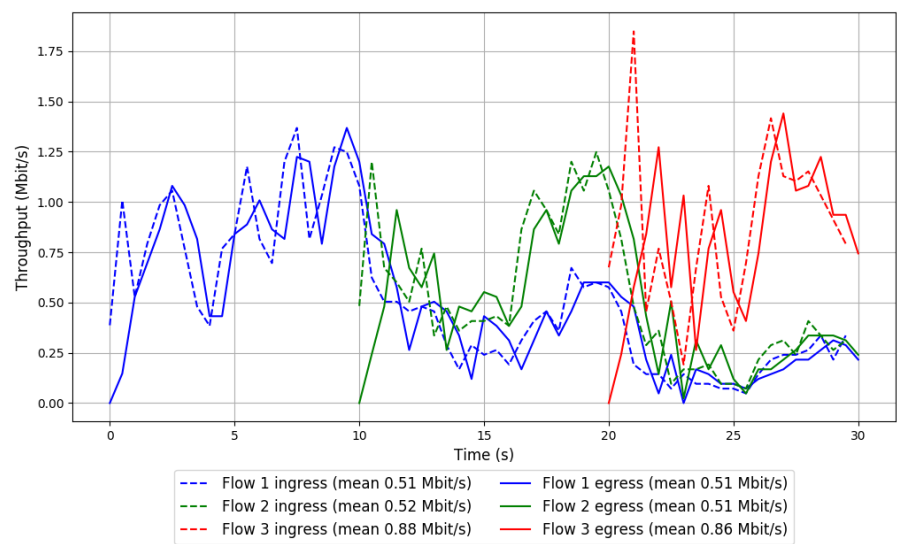


Run 2: Statistics of TCP Vegas

Start at: 2018-06-30 13:20:52  
End at: 2018-06-30 13:21:22  
Local clock offset: 8.315 ms  
Remote clock offset: -9.993 ms

# Below is generated by plot.py at 2018-06-30 13:55:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.13 Mbit/s  
95th percentile per-packet one-way delay: 713.344 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 594.661 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 779.292 ms  
Loss rate: 1.64%  
-- Flow 3:  
Average throughput: 0.86 Mbit/s  
95th percentile per-packet one-way delay: 748.179 ms  
Loss rate: 3.31%

Run 2: Report of TCP Vegas — Data Link

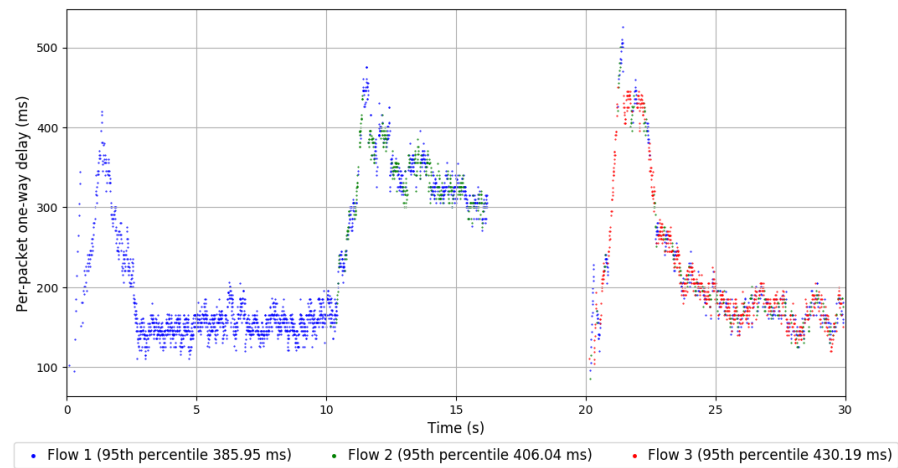
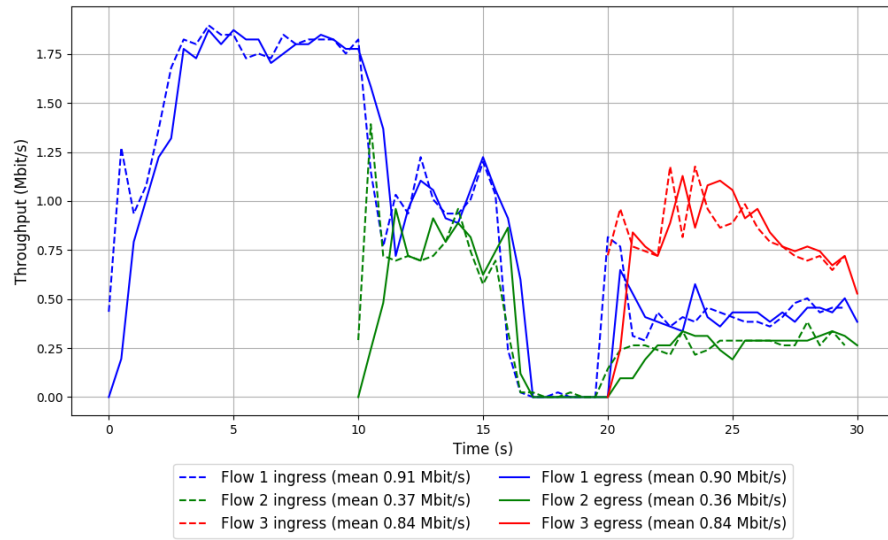


Run 3: Statistics of TCP Vegas

Start at: 2018-06-30 13:44:17  
End at: 2018-06-30 13:44:47  
Local clock offset: 9.669 ms  
Remote clock offset: -9.288 ms

# Below is generated by plot.py at 2018-06-30 13:55:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.41 Mbit/s  
95th percentile per-packet one-way delay: 405.228 ms  
Loss rate: 1.96%  
-- Flow 1:  
Average throughput: 0.90 Mbit/s  
95th percentile per-packet one-way delay: 385.950 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 406.044 ms  
Loss rate: 4.54%  
-- Flow 3:  
Average throughput: 0.84 Mbit/s  
95th percentile per-packet one-way delay: 430.193 ms  
Loss rate: 2.15%

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



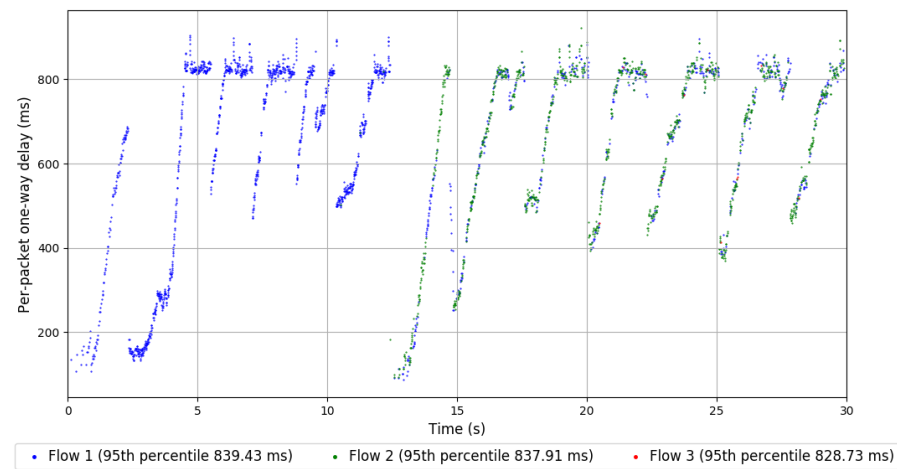
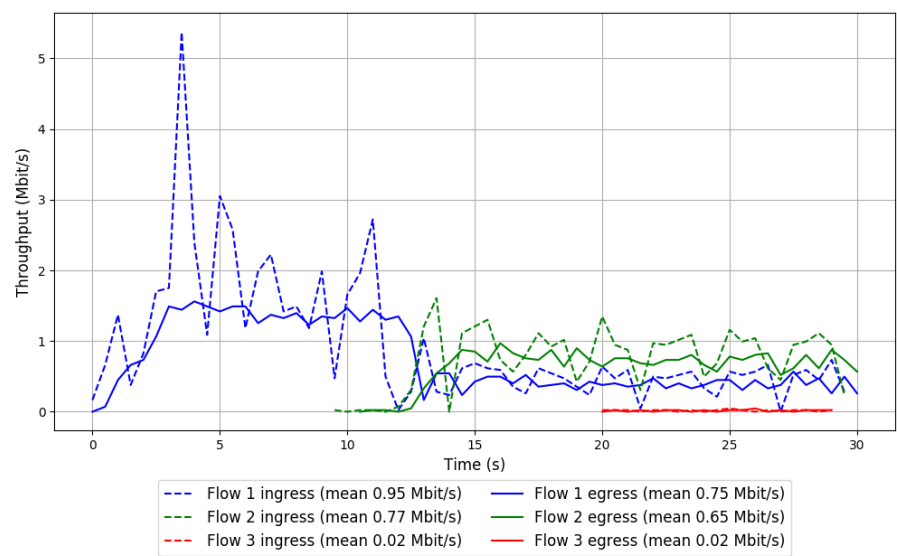
Run 1: Statistics of Verus

Start at: 2018-06-30 12:50:07  
End at: 2018-06-30 12:50:37  
Local clock offset: -1.011 ms  
Remote clock offset: -9.521 ms

# Below is generated by plot.py at 2018-06-30 13:55:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.18 Mbit/s  
95th percentile per-packet one-way delay: 838.682 ms  
Loss rate: 19.60%  
-- Flow 1:  
Average throughput: 0.75 Mbit/s  
95th percentile per-packet one-way delay: 839.431 ms  
Loss rate: 21.45%  
-- Flow 2:  
Average throughput: 0.65 Mbit/s  
95th percentile per-packet one-way delay: 837.911 ms  
Loss rate: 16.29%  
-- Flow 3:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 828.727 ms  
Loss rate: 7.14%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

/home/ubuntu/pantheon/data/2018-06-30T12-41-China-ppp0-to-AWS-Korea-3-runs-3-flows/verus\_sta

Run 2: Report of Verus — Data Link

Figure is missing

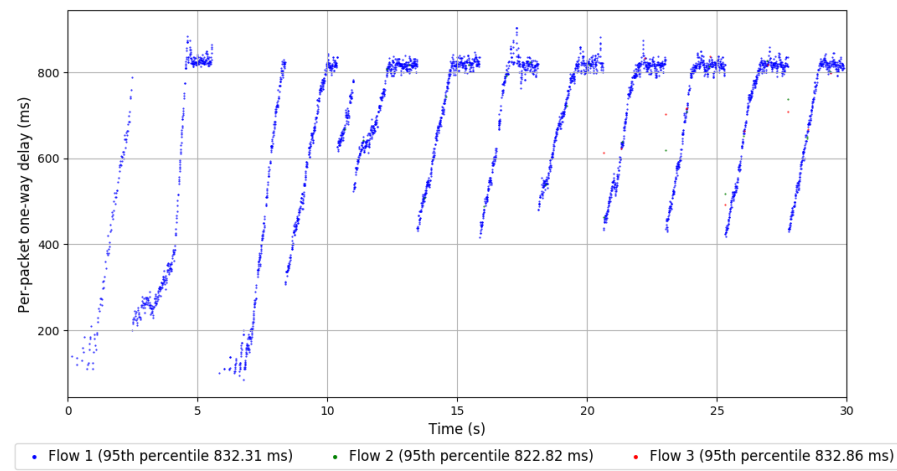
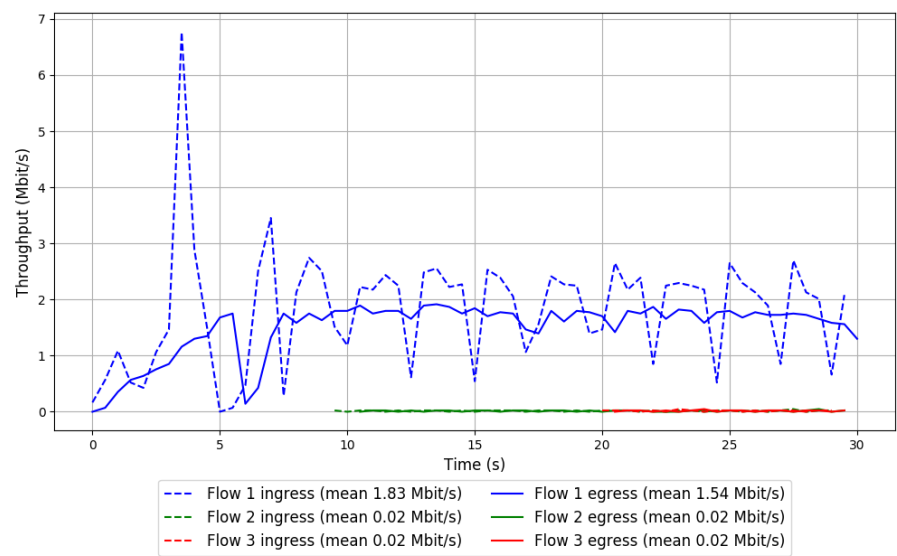
Figure is missing

Run 3: Statistics of Verus

Start at: 2018-06-30 13:38:40  
End at: 2018-06-30 13:39:10  
Local clock offset: 9.241 ms  
Remote clock offset: -9.851 ms

# Below is generated by plot.py at 2018-06-30 13:55:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.55 Mbit/s  
95th percentile per-packet one-way delay: 832.314 ms  
Loss rate: 16.41%  
-- Flow 1:  
Average throughput: 1.54 Mbit/s  
95th percentile per-packet one-way delay: 832.314 ms  
Loss rate: 16.49%  
-- Flow 2:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 822.819 ms  
Loss rate: 7.41%  
-- Flow 3:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 832.859 ms  
Loss rate: 7.14%

Run 3: Report of Verus — Data Link

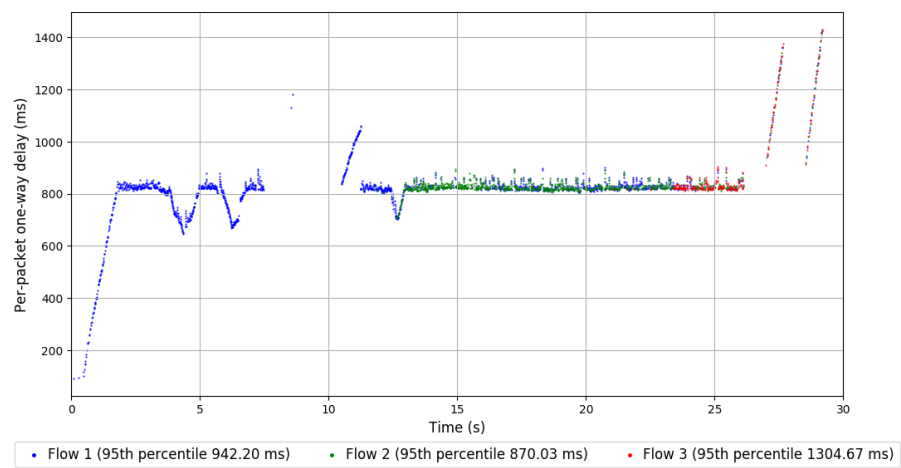
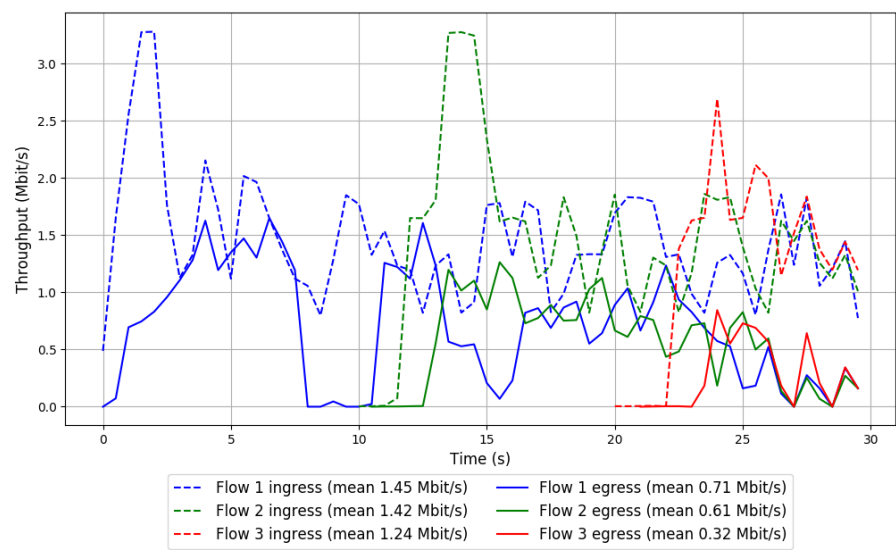


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-30 13:06:15  
End at: 2018-06-30 13:06:45  
Local clock offset: 6.423 ms  
Remote clock offset: -9.662 ms

# Below is generated by plot.py at 2018-06-30 13:55:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.17 Mbit/s  
95th percentile per-packet one-way delay: 997.364 ms  
Loss rate: 59.31%  
-- Flow 1:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 942.204 ms  
Loss rate: 52.64%  
-- Flow 2:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 870.028 ms  
Loss rate: 60.98%  
-- Flow 3:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 1304.666 ms  
Loss rate: 79.11%

Run 1: Report of PCC-Vivace — Data Link



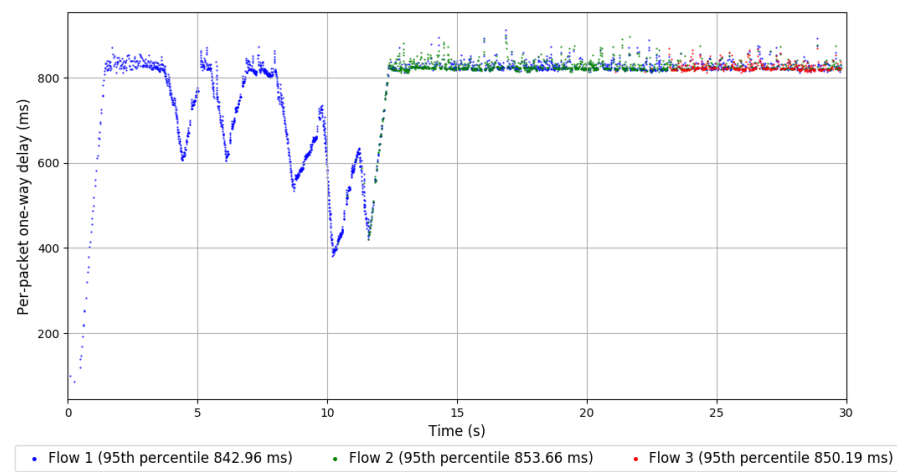
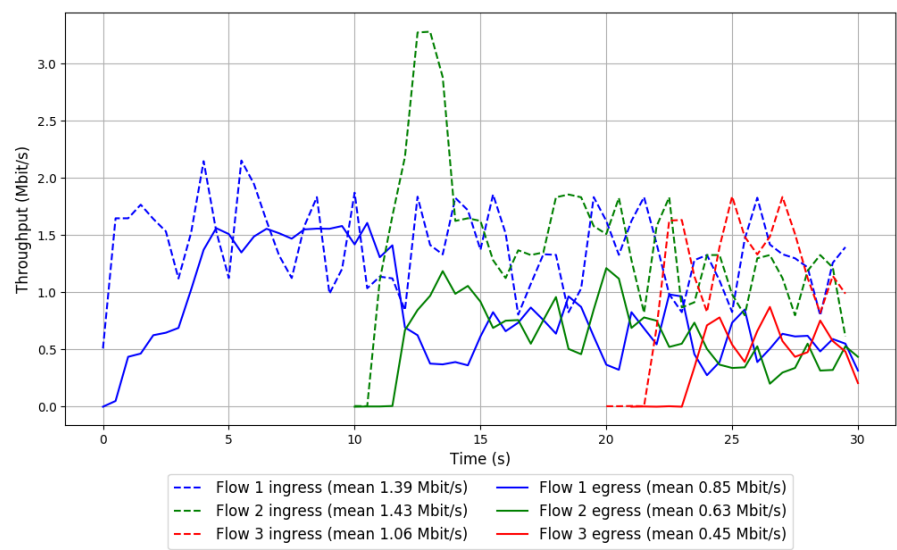
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-30 13:30:22  
End at: 2018-06-30 13:30:52  
Local clock offset: 8.526 ms  
Remote clock offset: -10.104 ms

# Below is generated by plot.py at 2018-06-30 13:55:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.39 Mbit/s  
95th percentile per-packet one-way delay: 847.380 ms  
Loss rate: 48.81%  
-- Flow 1:  
Average throughput: 0.85 Mbit/s  
95th percentile per-packet one-way delay: 842.962 ms  
Loss rate: 39.69%  
-- Flow 2:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 853.661 ms  
Loss rate: 57.12%  
-- Flow 3:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 850.192 ms  
Loss rate: 62.61%



Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

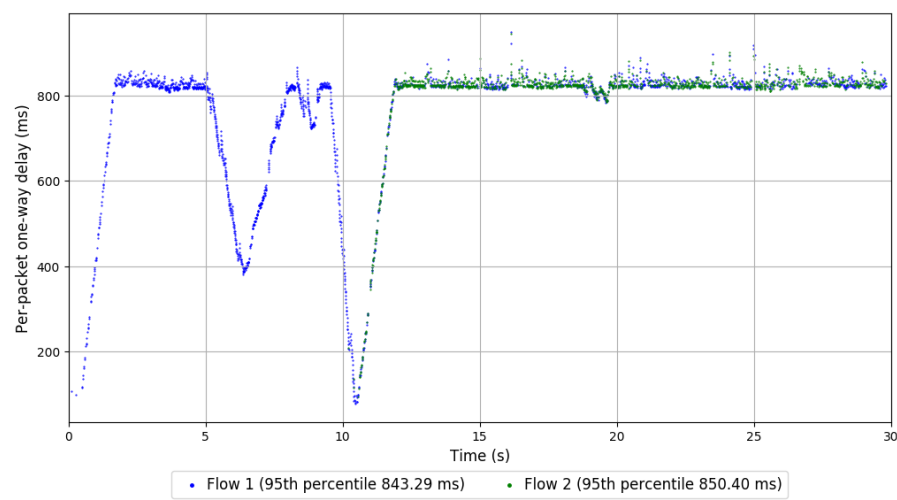
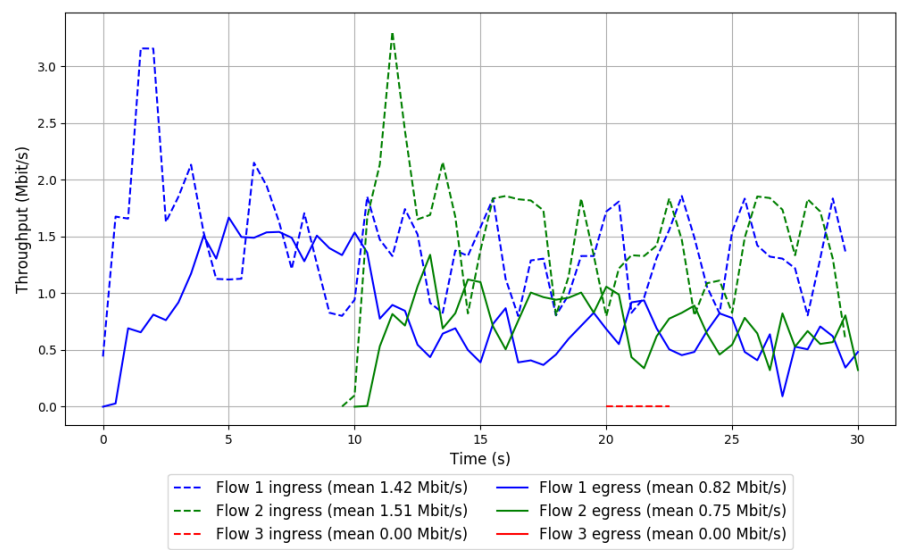
Start at: 2018-06-30 13:54:04

End at: 2018-06-30 13:54:34

Local clock offset: 3.888 ms

Remote clock offset: -8.846 ms

Run 3: Report of PCC-Vivace — Data Link

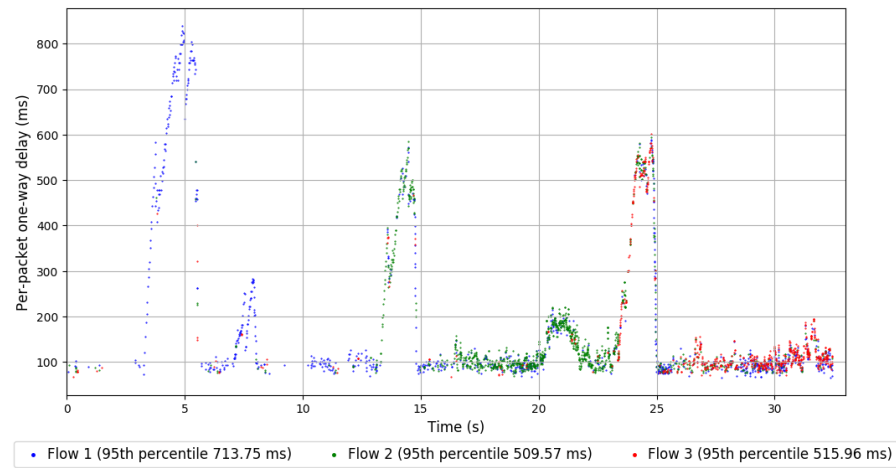
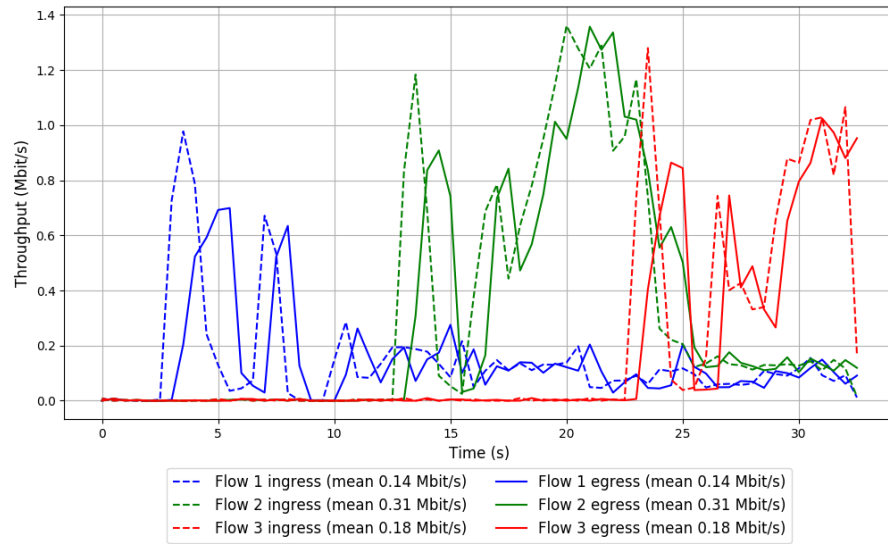


Run 1: Statistics of WebRTC media

Start at: 2018-06-30 13:01:41  
End at: 2018-06-30 13:02:11  
Local clock offset: 5.547 ms  
Remote clock offset: -9.201 ms

# Below is generated by plot.py at 2018-06-30 13:55:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 539.451 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 713.753 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 509.575 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 515.955 ms  
Loss rate: 3.98%

# Run 1: Report of WebRTC media — Data Link

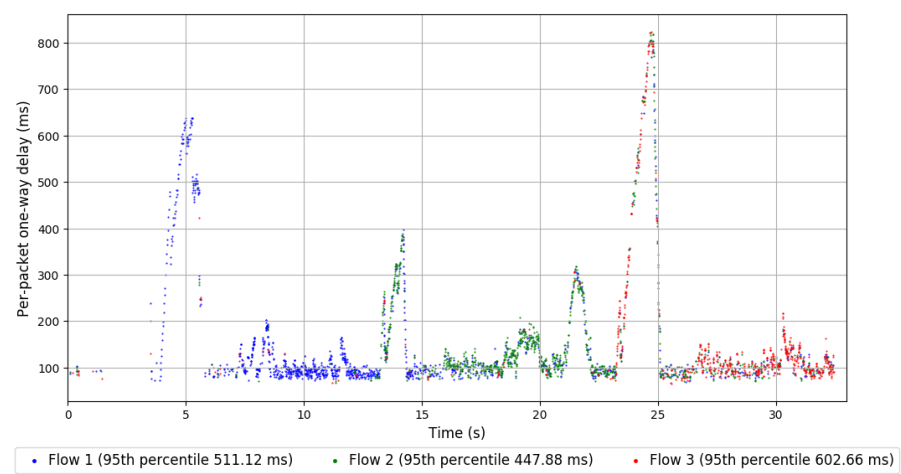
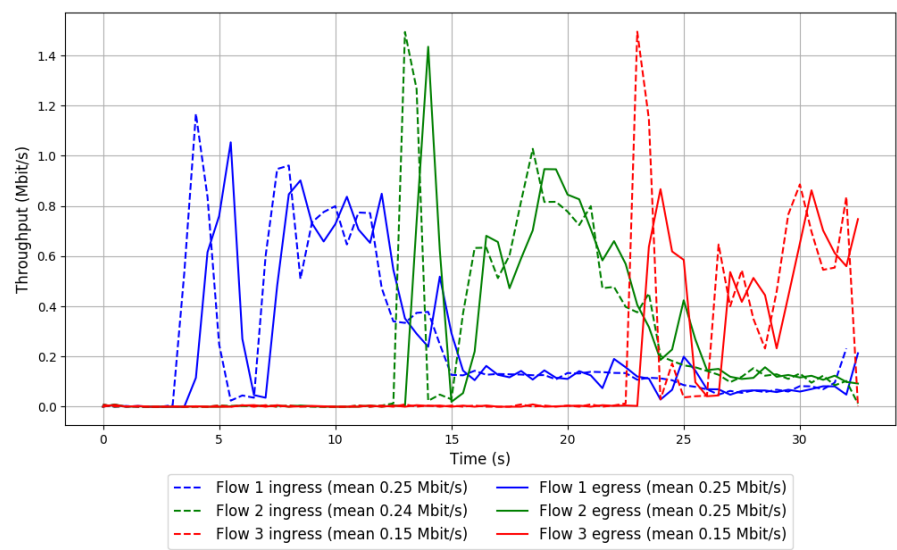


Run 2: Statistics of WebRTC media

Start at: 2018-06-30 13:26:15  
End at: 2018-06-30 13:26:45  
Local clock offset: 8.429 ms  
Remote clock offset: -10.066 ms

# Below is generated by plot.py at 2018-06-30 13:55:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.65 Mbit/s  
95th percentile per-packet one-way delay: 519.793 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 511.119 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 447.875 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 602.660 ms  
Loss rate: 2.82%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-30 13:49:46  
End at: 2018-06-30 13:50:16  
Local clock offset: 5.978 ms  
Remote clock offset: -8.992 ms

# Below is generated by plot.py at 2018-06-30 13:55:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 385.661 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 476.239 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 375.660 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 336.870 ms  
Loss rate: 2.99%



Run 3: Report of WebRTC media — Data Link

