

Pantheon Report

Generated at 2018-06-06 01:12:30 (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.

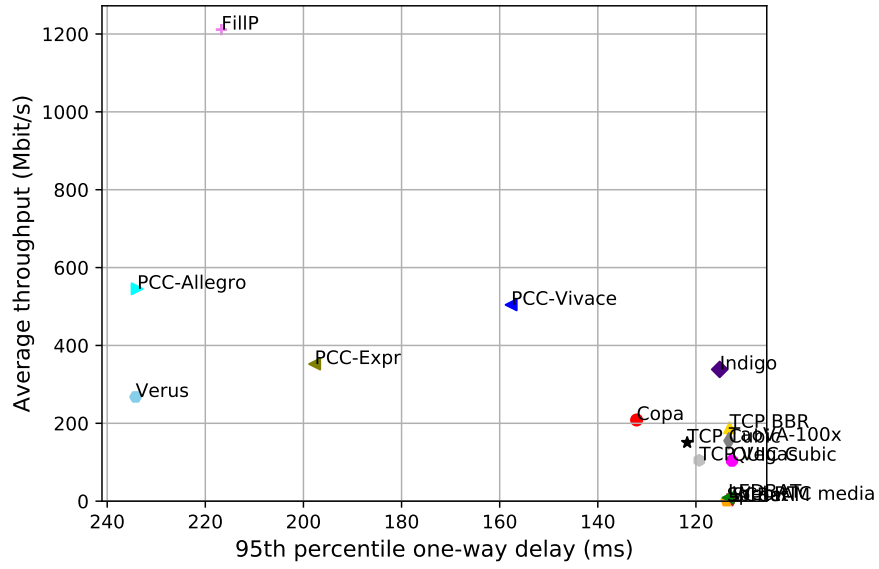
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

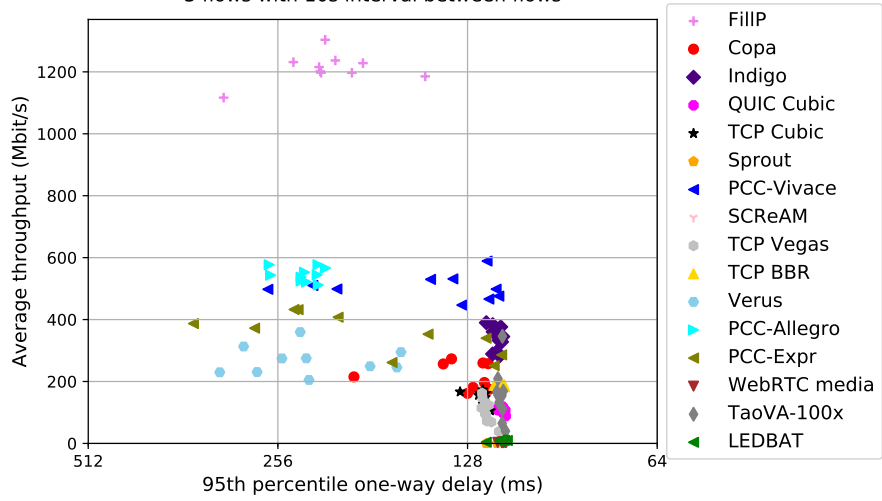
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ 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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/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



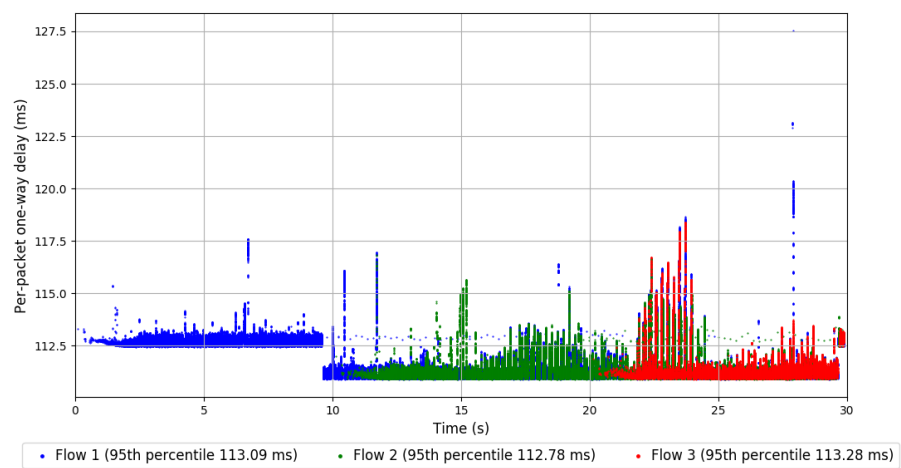
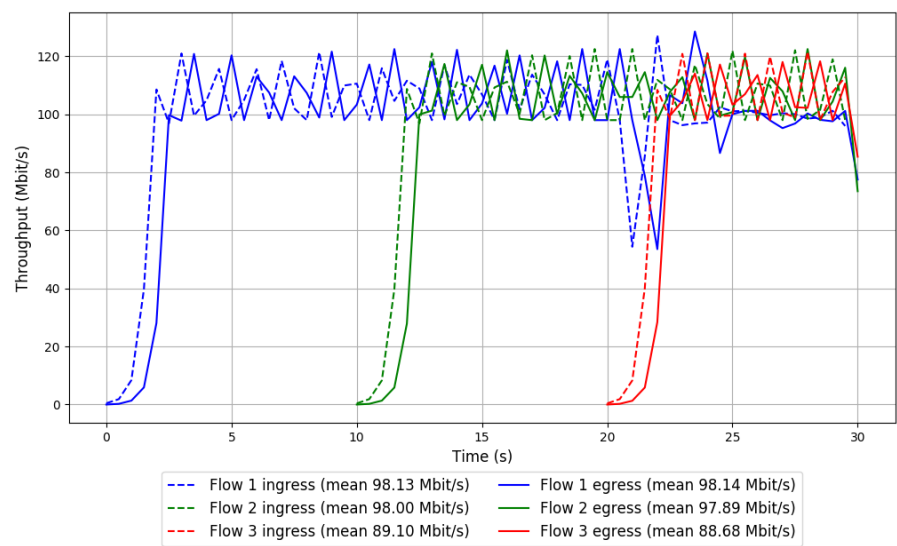
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	96.66	95.14	88.02	112.73	113.37	113.70	0.78	1.20	2.74
Copa	10	97.47	120.98	94.38	122.83	132.40	126.13	0.48	1.06	2.92
TCP Cubic	10	82.23	79.12	49.28	121.59	121.82	120.54	0.82	1.33	4.67
FillP	10	664.91	580.04	496.97	218.41	209.47	196.48	3.58	3.56	4.30
Indigo	10	178.62	173.45	139.70	114.09	115.71	116.89	0.74	1.16	2.78
LEDBAT	10	5.70	4.08	1.93	113.51	113.16	112.99	1.79	2.40	4.48
PCC-Allegro	10	490.94	71.49	22.28	234.78	223.40	205.49	2.83	2.45	3.64
PCC-Expr	10	253.06	112.57	75.77	206.42	127.70	131.93	4.20	2.52	4.34
QUIC Cubic	10	58.83	49.74	37.22	111.99	111.74	111.94	1.00	1.75	2.84
SCReAM	10	0.21	0.20	0.20	112.30	111.93	112.20	0.71	1.23	2.15
Sprout	10	0.20	0.21	0.25	113.29	113.19	113.01	0.95	1.44	1.36
TaoVA-100x	10	64.43	97.18	80.31	113.30	112.65	114.44	0.74	1.05	2.37
TCP Vegas	10	48.40	61.32	48.82	117.44	119.05	119.22	0.74	1.14	3.10
Verus	10	166.73	113.65	82.31	215.41	214.32	216.60	2.10	3.06	5.45
PCC-Vivace	10	302.64	221.14	170.13	138.76	141.64	161.88	0.91	1.79	3.65
WebRTC media	10	1.92	1.14	0.41	111.91	111.79	111.93	1.00	1.61	2.58

Run 1: Statistics of TCP BBR

Start at: 2018-06-05 19:32:17
End at: 2018-06-05 19:32:47
Local clock offset: 0.198 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-05 23:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.99 Mbit/s
95th percentile per-packet one-way delay: 113.021 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 98.14 Mbit/s
95th percentile per-packet one-way delay: 113.086 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 97.89 Mbit/s
95th percentile per-packet one-way delay: 112.781 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 113.284 ms
Loss rate: 2.76%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-05 19:56:32

End at: 2018-06-05 19:57:02

Local clock offset: 0.073 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-06-05 23:32:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.58 Mbit/s

95th percentile per-packet one-way delay: 113.323 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 112.967 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 92.58 Mbit/s

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

Loss rate: 1.17%

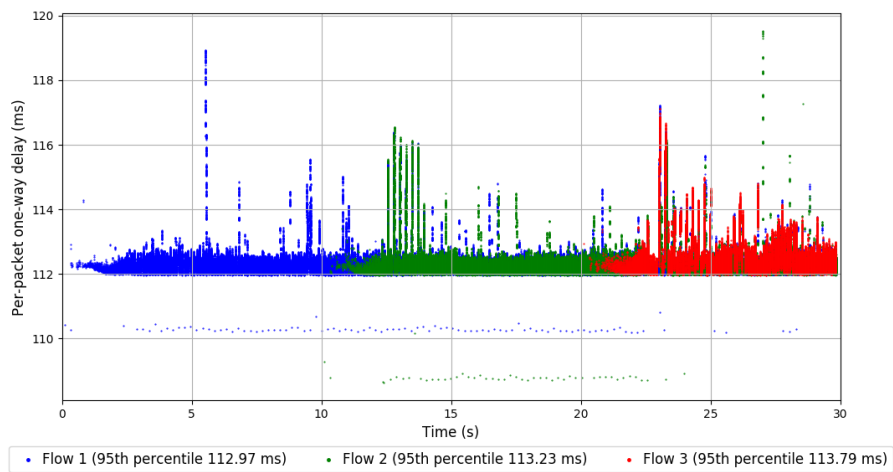
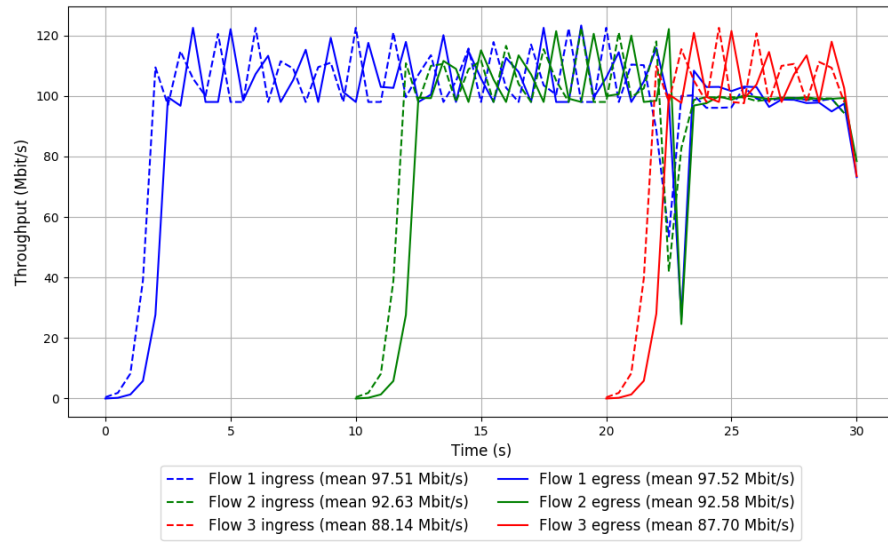
-- Flow 3:

Average throughput: 87.70 Mbit/s

95th percentile per-packet one-way delay: 113.794 ms

Loss rate: 2.80%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-05 20:20:29

End at: 2018-06-05 20:20:59

Local clock offset: 0.076 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-06-05 23:32:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.67 Mbit/s

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

Loss rate: 1.24%

-- Flow 1:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 112.723 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 98.42 Mbit/s

95th percentile per-packet one-way delay: 113.412 ms

Loss rate: 1.25%

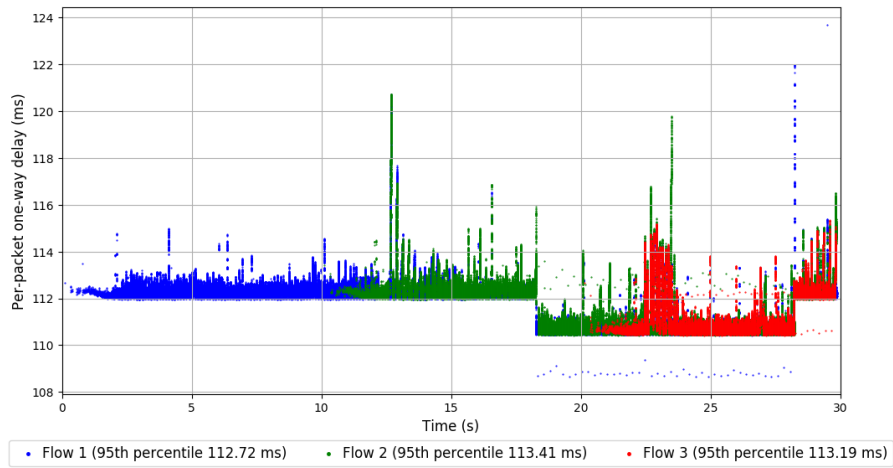
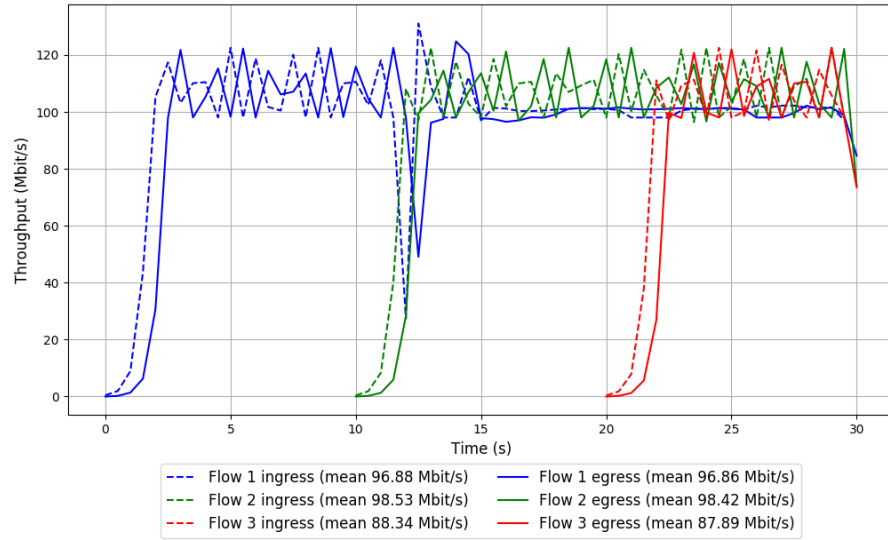
-- Flow 3:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 113.193 ms

Loss rate: 2.80%

Run 3: Report of TCP BBR — Data Link

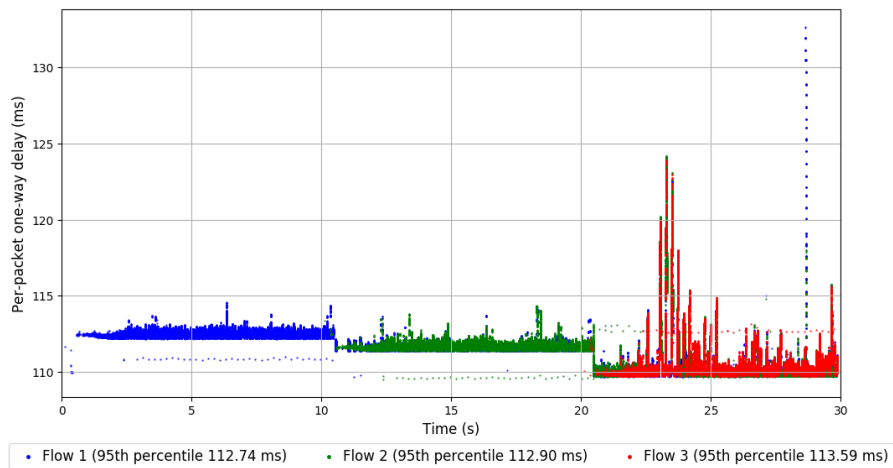
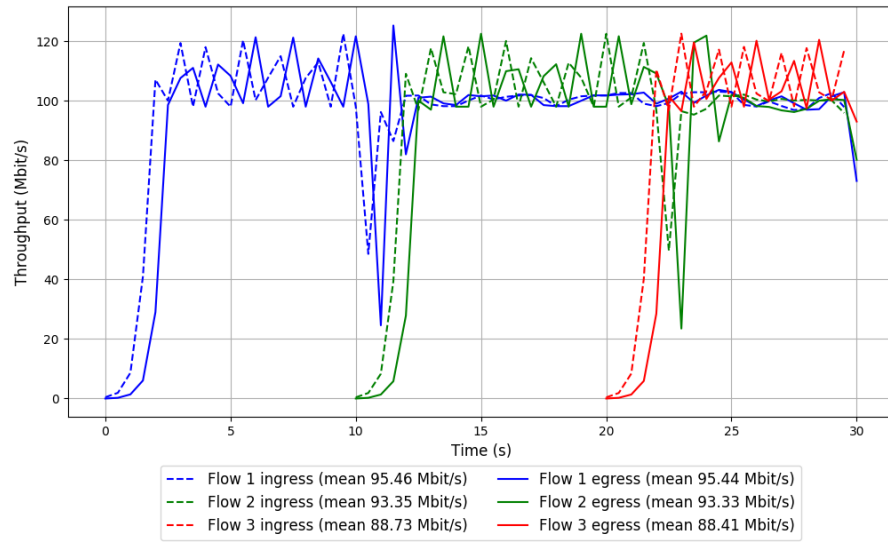


Run 4: Statistics of TCP BBR

Start at: 2018-06-05 20:44:46
End at: 2018-06-05 20:45:16
Local clock offset: -0.089 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-05 23:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 186.36 Mbit/s
95th percentile per-packet one-way delay: 112.773 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 112.741 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 112.898 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 88.41 Mbit/s
95th percentile per-packet one-way delay: 113.594 ms
Loss rate: 2.58%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-05 21:08:35

End at: 2018-06-05 21:09:05

Local clock offset: -0.109 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-06-05 23:32:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.10 Mbit/s

95th percentile per-packet one-way delay: 111.807 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 111.688 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 111.800 ms

Loss rate: 1.14%

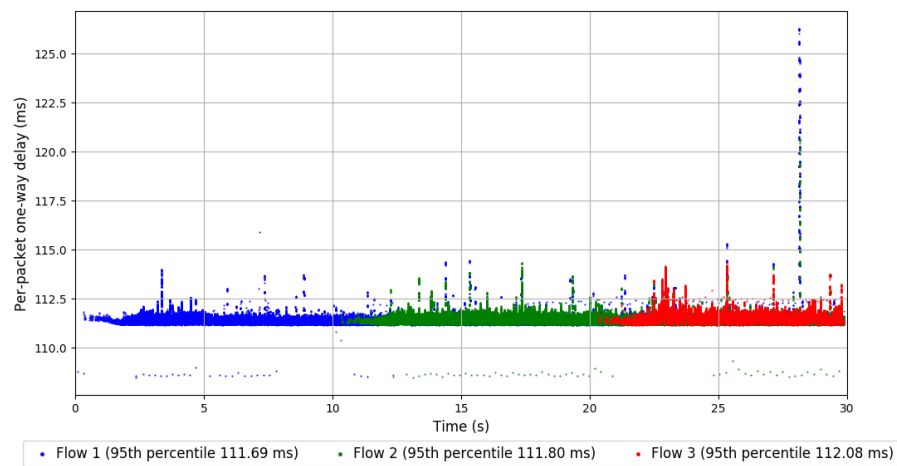
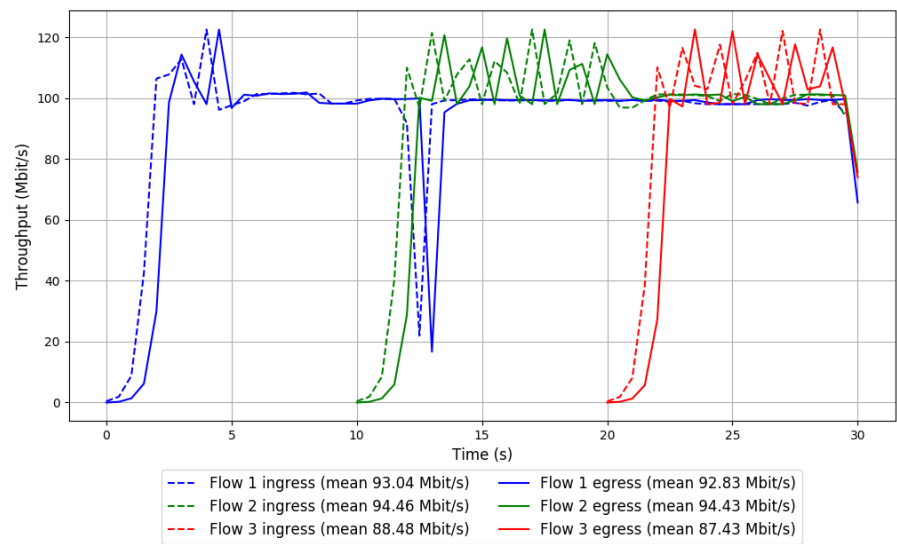
-- Flow 3:

Average throughput: 87.43 Mbit/s

95th percentile per-packet one-way delay: 112.076 ms

Loss rate: 2.78%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-05 21:32:51

End at: 2018-06-05 21:33:21

Local clock offset: 0.025 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-05 23:32:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.02 Mbit/s

95th percentile per-packet one-way delay: 112.939 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 98.49 Mbit/s

95th percentile per-packet one-way delay: 112.625 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 113.260 ms

Loss rate: 1.16%

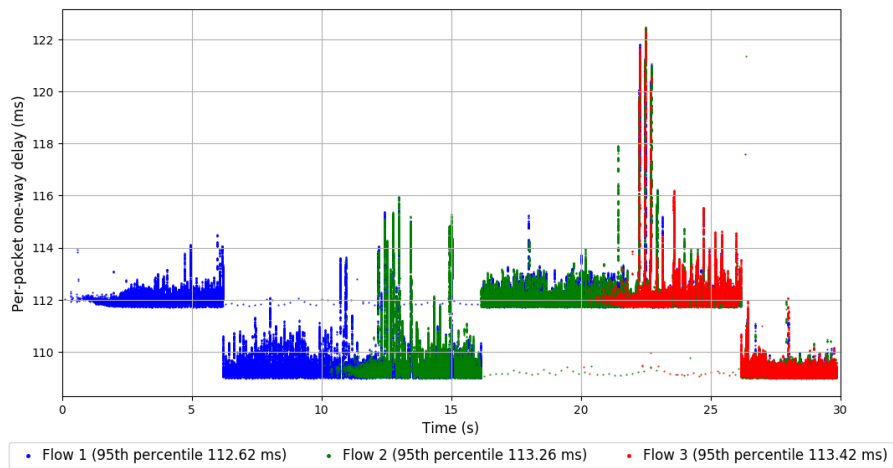
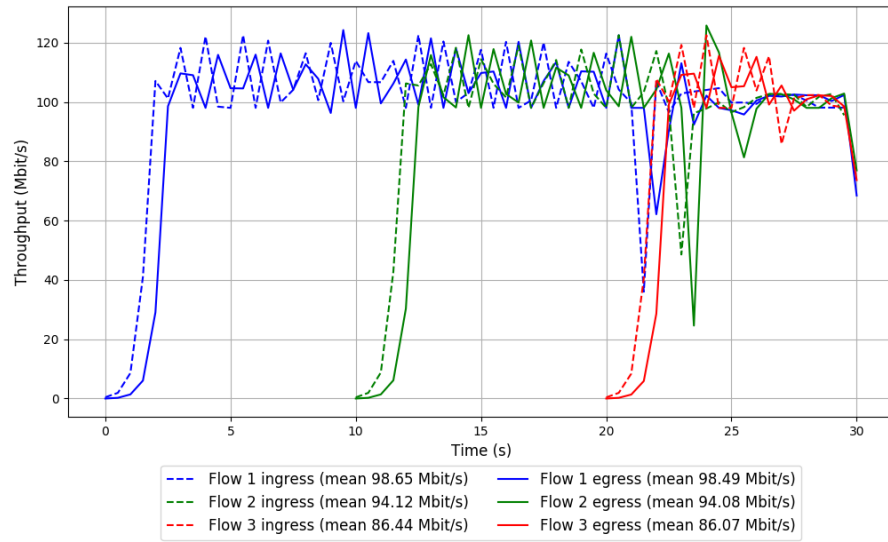
-- Flow 3:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 113.419 ms

Loss rate: 2.85%

Run 6: Report of TCP BBR — Data Link

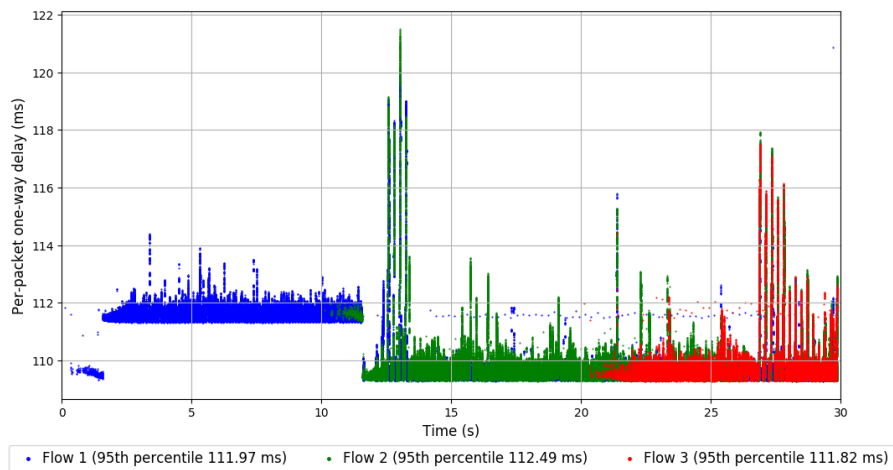
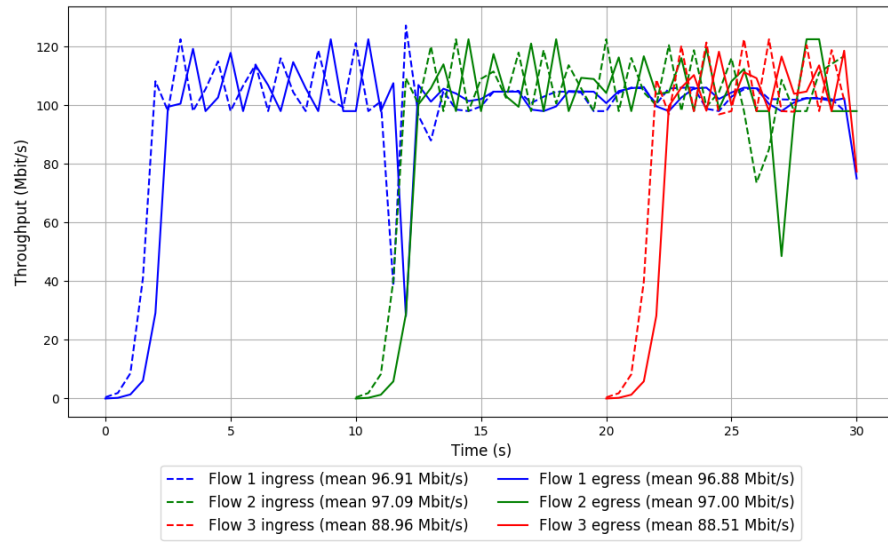


Run 7: Statistics of TCP BBR

Start at: 2018-06-05 21:56:45
End at: 2018-06-05 21:57:15
Local clock offset: -0.43 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-05 23:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 190.08 Mbit/s
95th percentile per-packet one-way delay: 112.015 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 111.975 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 112.486 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 111.819 ms
Loss rate: 2.77%

Run 7: Report of TCP BBR — Data Link

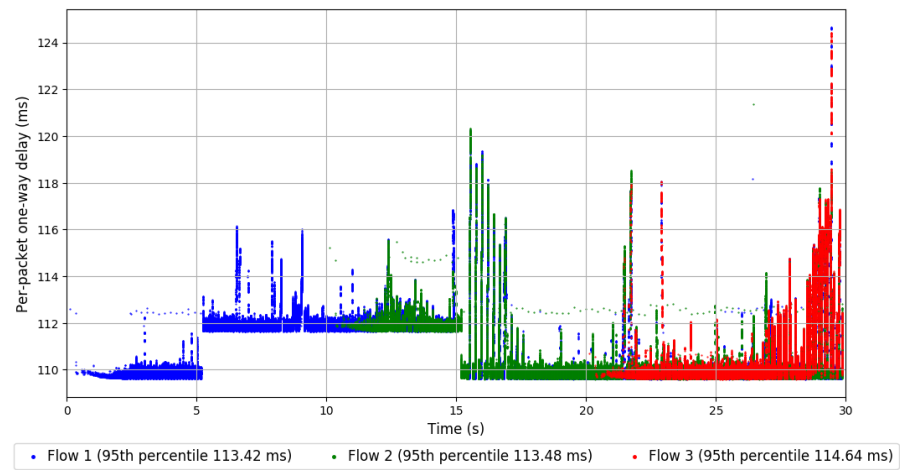
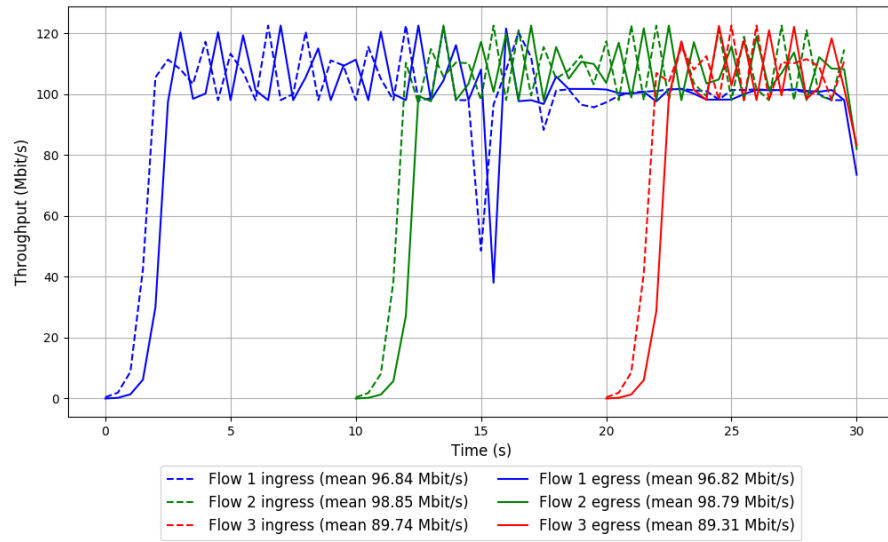


Run 8: Statistics of TCP BBR

Start at: 2018-06-05 22:20:32
End at: 2018-06-05 22:21:02
Local clock offset: -0.091 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-06-05 23:32:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.52 Mbit/s
95th percentile per-packet one-way delay: 113.644 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 113.419 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 98.79 Mbit/s
95th percentile per-packet one-way delay: 113.483 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 114.645 ms
Loss rate: 2.70%

Run 8: Report of TCP BBR — Data Link

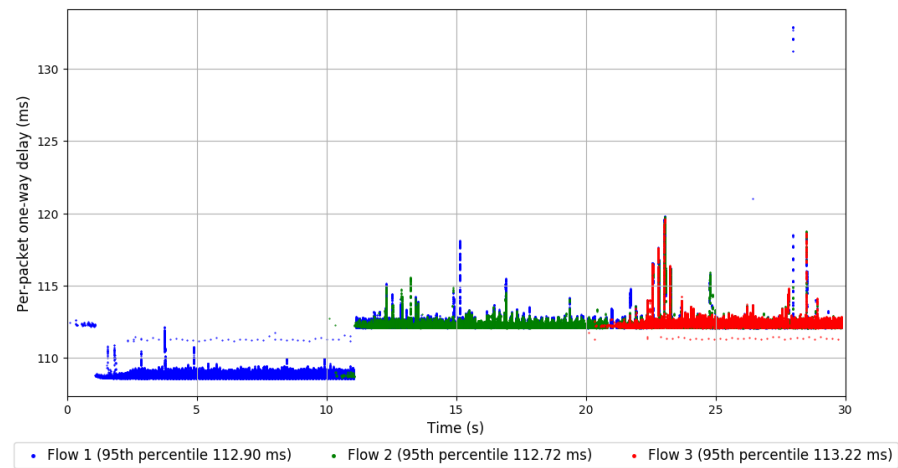
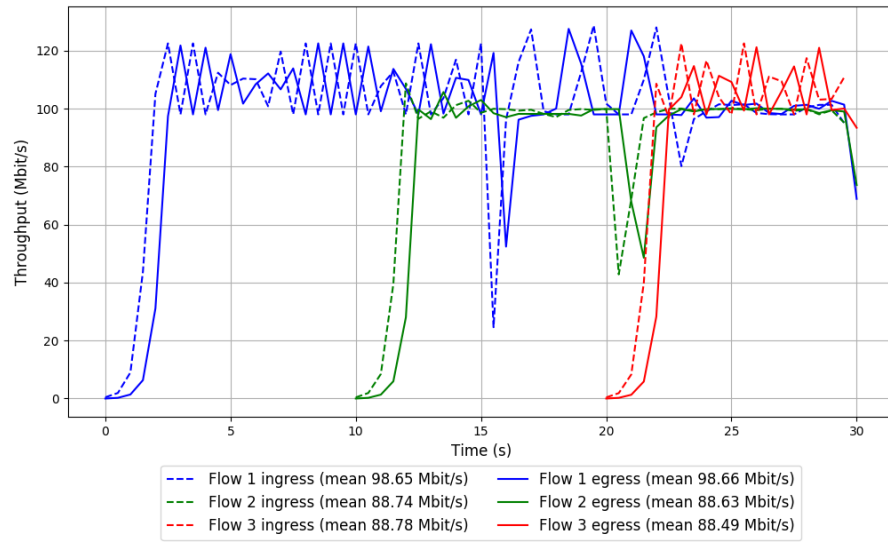


Run 9: Statistics of TCP BBR

Start at: 2018-06-05 22:44:16
End at: 2018-06-05 22:44:46
Local clock offset: -0.355 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-06-05 23:35:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 186.42 Mbit/s
95th percentile per-packet one-way delay: 112.895 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 98.66 Mbit/s
95th percentile per-packet one-way delay: 112.904 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 112.724 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 88.49 Mbit/s
95th percentile per-packet one-way delay: 113.216 ms
Loss rate: 2.56%

Run 9: Report of TCP BBR — Data Link

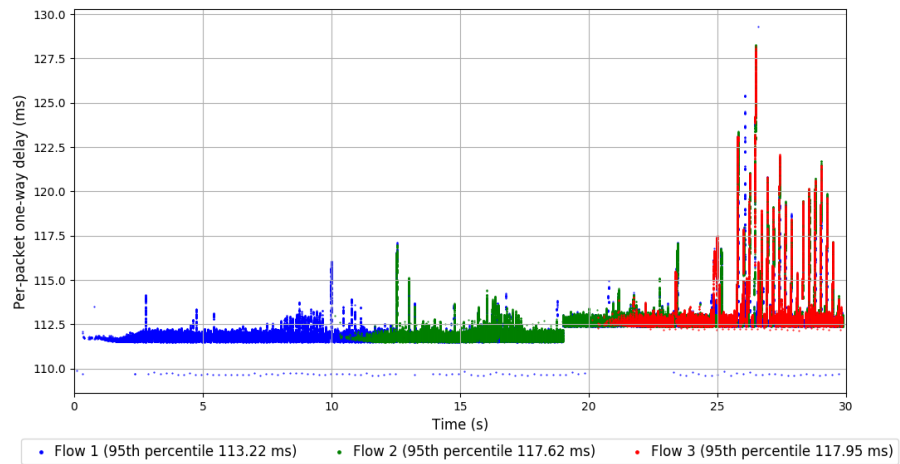
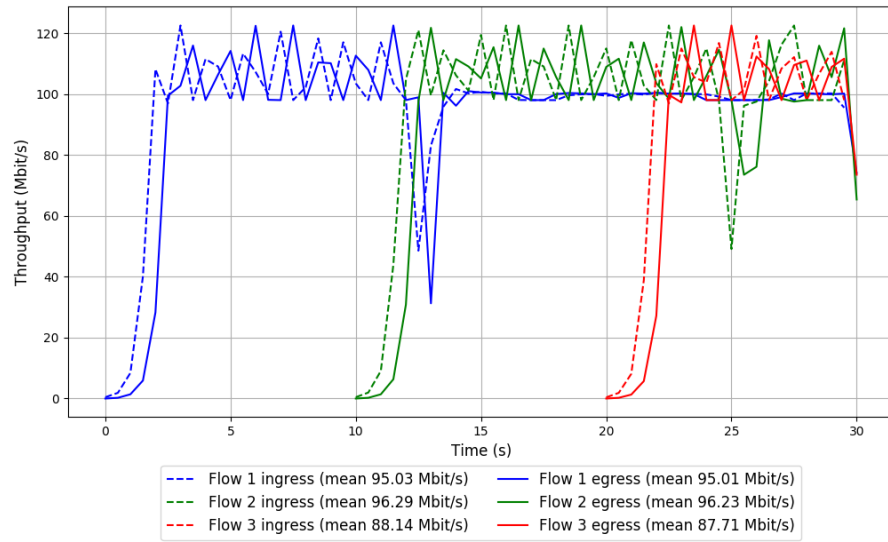


Run 10: Statistics of TCP BBR

Start at: 2018-06-05 23:08:48
End at: 2018-06-05 23:09:18
Local clock offset: -0.067 ms
Remote clock offset: -0.234 ms

Below is generated by plot.py at 2018-06-05 23:35:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 187.47 Mbit/s
95th percentile per-packet one-way delay: 116.125 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 113.217 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 117.621 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 117.953 ms
Loss rate: 2.80%

Run 10: Report of TCP BBR — Data Link

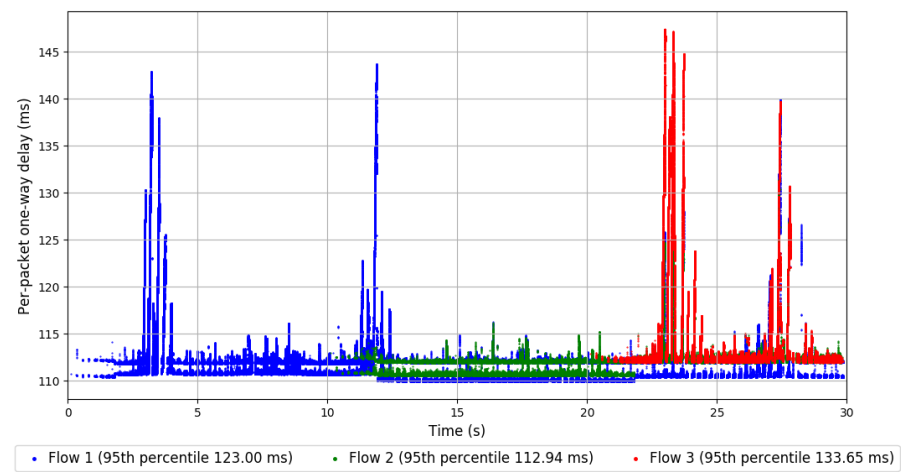
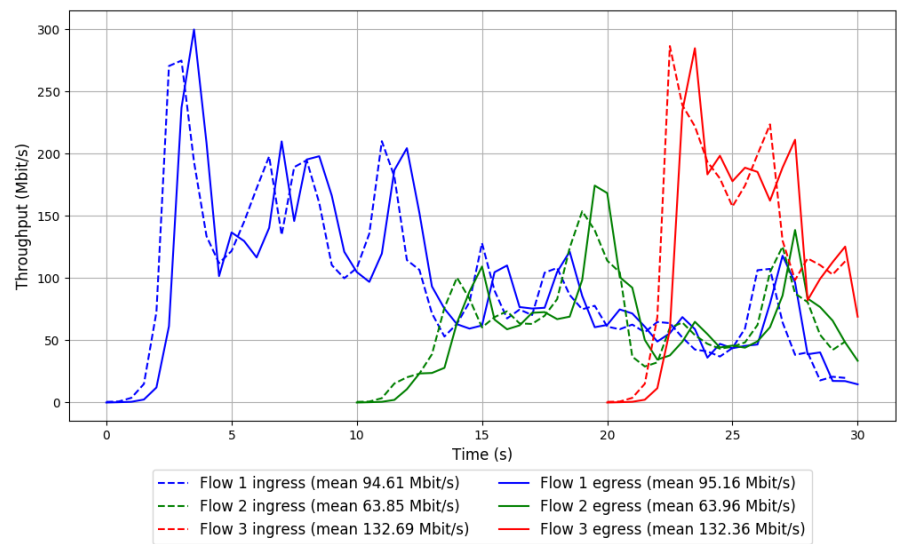


Run 1: Statistics of Copa

Start at: 2018-06-05 19:22:05
End at: 2018-06-05 19:22:35
Local clock offset: -0.342 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-05 23:37:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 180.86 Mbit/s
95th percentile per-packet one-way delay: 125.465 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 123.000 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 63.96 Mbit/s
95th percentile per-packet one-way delay: 112.937 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 132.36 Mbit/s
95th percentile per-packet one-way delay: 133.650 ms
Loss rate: 2.24%

Run 1: Report of Copa — Data Link

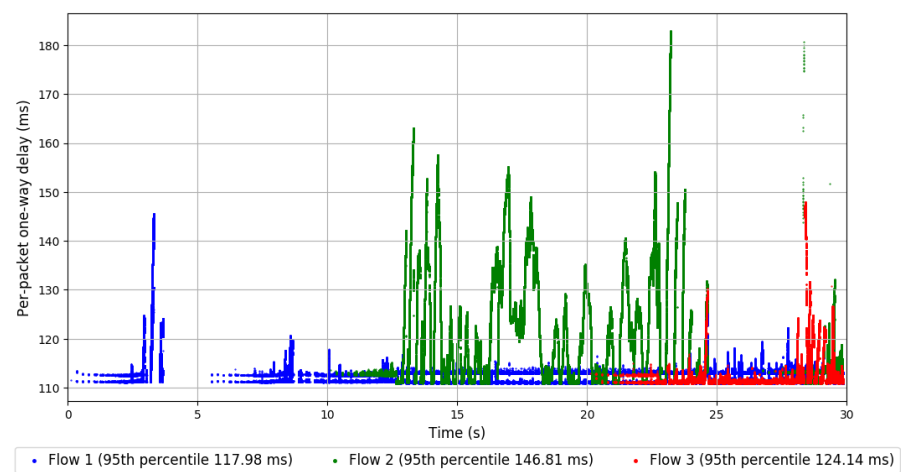
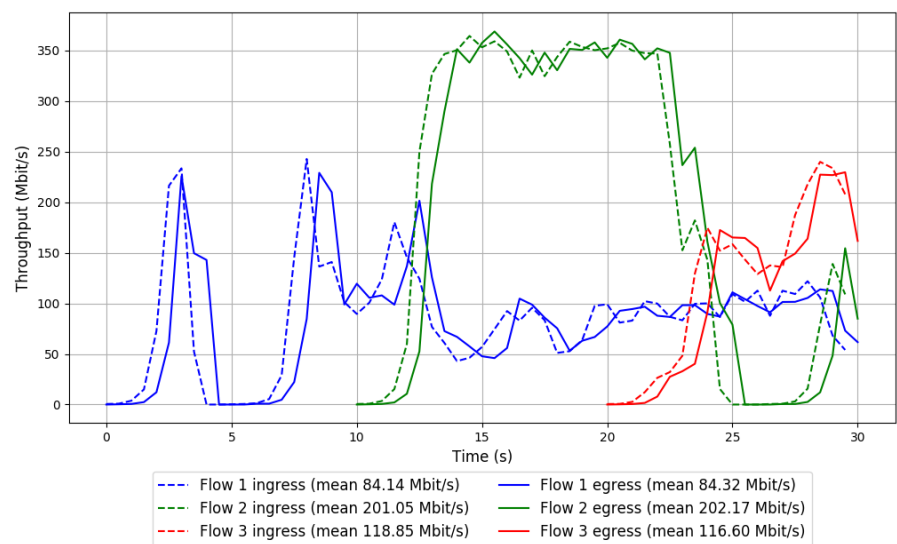


Run 2: Statistics of Copa

Start at: 2018-06-05 19:46:14
End at: 2018-06-05 19:46:44
Local clock offset: 0.177 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-05 23:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.66 Mbit/s
95th percentile per-packet one-way delay: 139.871 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 84.32 Mbit/s
95th percentile per-packet one-way delay: 117.981 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 202.17 Mbit/s
95th percentile per-packet one-way delay: 146.808 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 116.60 Mbit/s
95th percentile per-packet one-way delay: 124.136 ms
Loss rate: 4.12%

Run 2: Report of Copa — Data Link

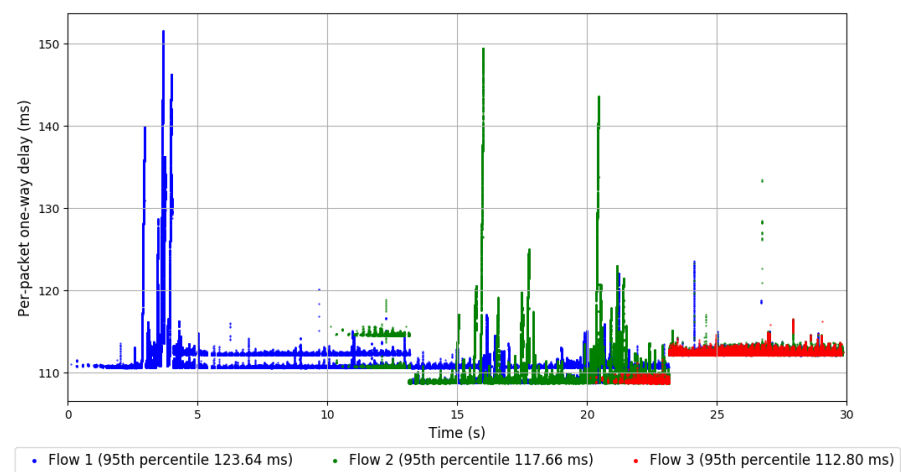
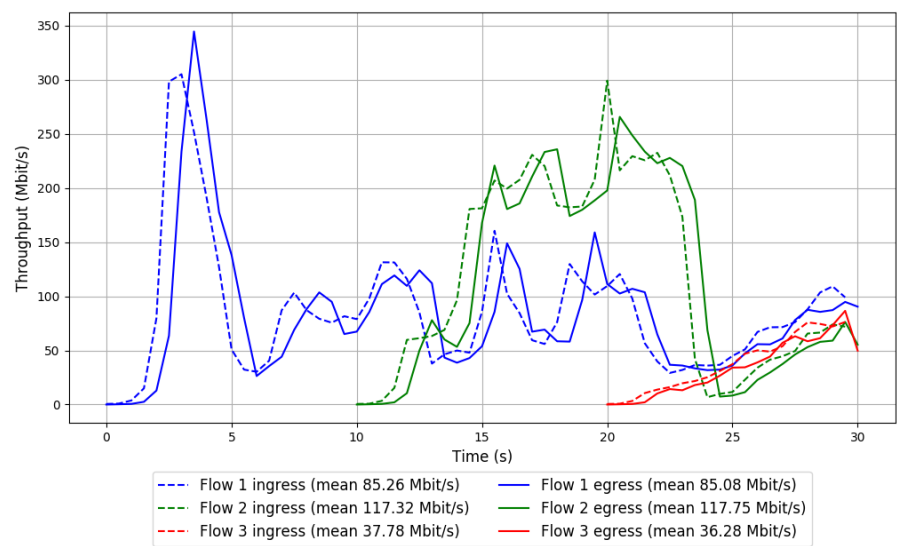


Run 3: Statistics of Copa

Start at: 2018-06-05 20:10:24
End at: 2018-06-05 20:10:54
Local clock offset: -0.131 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-05 23:39:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 174.92 Mbit/s
95th percentile per-packet one-way delay: 118.214 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 123.645 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 117.75 Mbit/s
95th percentile per-packet one-way delay: 117.661 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 112.797 ms
Loss rate: 5.20%

Run 3: Report of Copa — Data Link

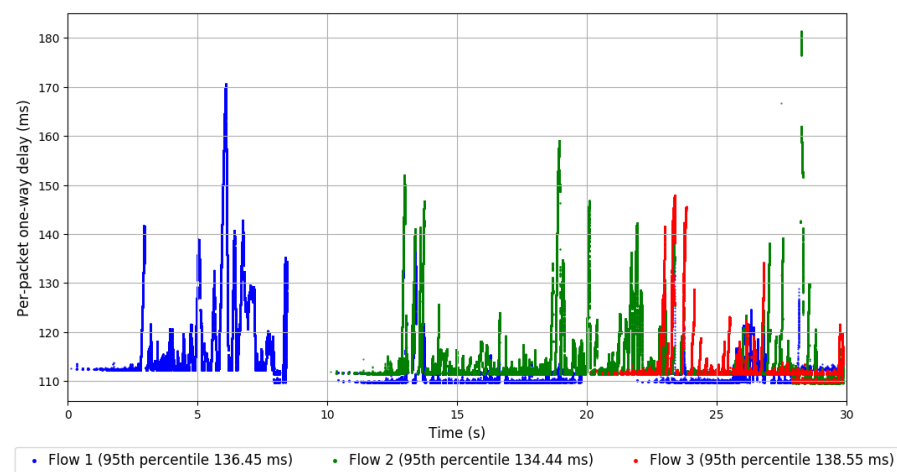
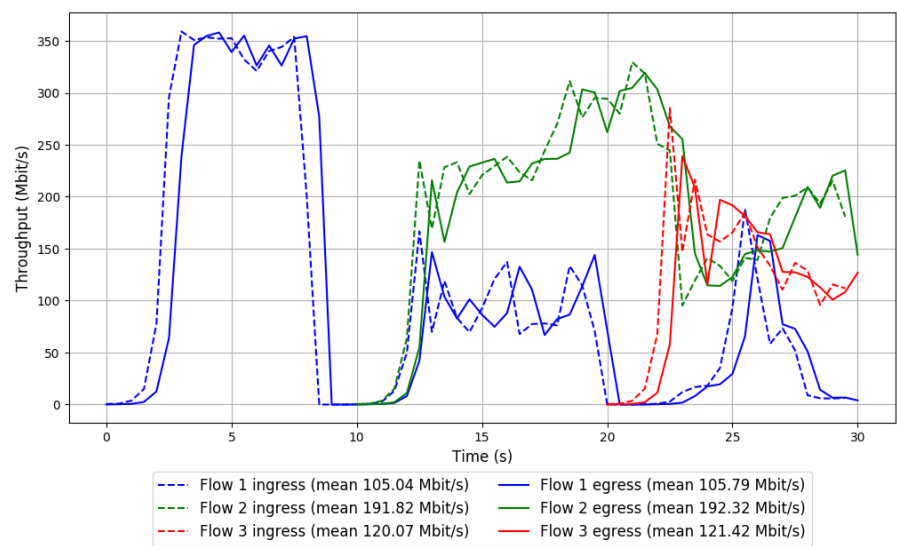


Run 4: Statistics of Copa

Start at: 2018-06-05 20:34:19
End at: 2018-06-05 20:34:49
Local clock offset: -0.048 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-05 23:40:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.11 Mbit/s
95th percentile per-packet one-way delay: 135.721 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 105.79 Mbit/s
95th percentile per-packet one-way delay: 136.452 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 192.32 Mbit/s
95th percentile per-packet one-way delay: 134.445 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 121.42 Mbit/s
95th percentile per-packet one-way delay: 138.549 ms
Loss rate: 1.22%

Run 4: Report of Copa — Data Link

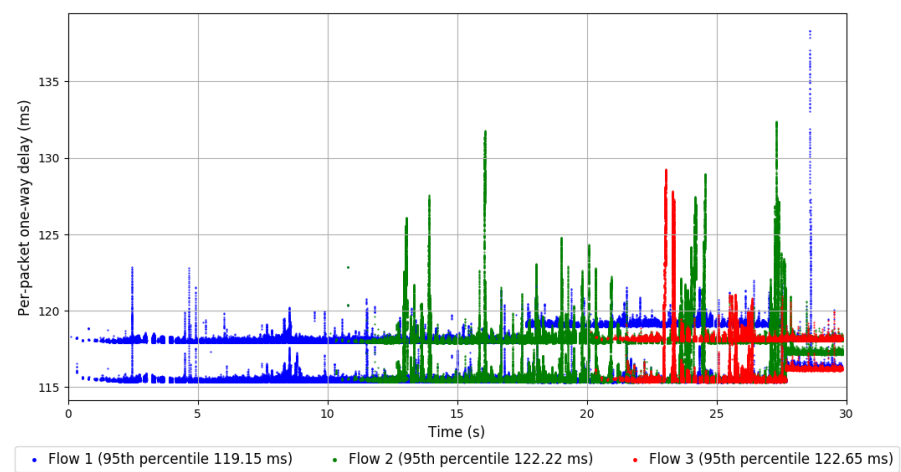
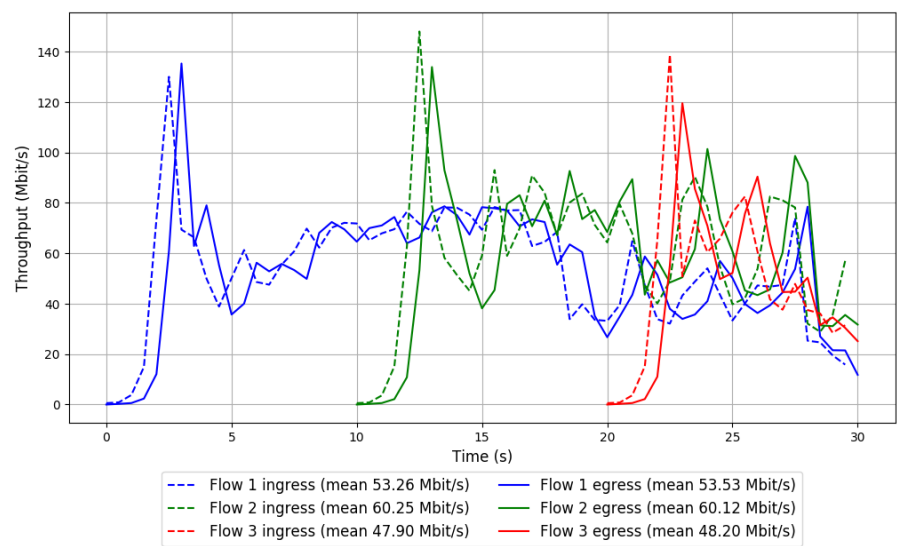


Run 5: Statistics of Copa

Start at: 2018-06-05 20:58:39
End at: 2018-06-05 20:59:09
Local clock offset: 6.393 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-05 23:40:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.14 Mbit/s
95th percentile per-packet one-way delay: 119.724 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 53.53 Mbit/s
95th percentile per-packet one-way delay: 119.150 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 60.12 Mbit/s
95th percentile per-packet one-way delay: 122.224 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 122.647 ms
Loss rate: 1.65%

Run 5: Report of Copa — Data Link

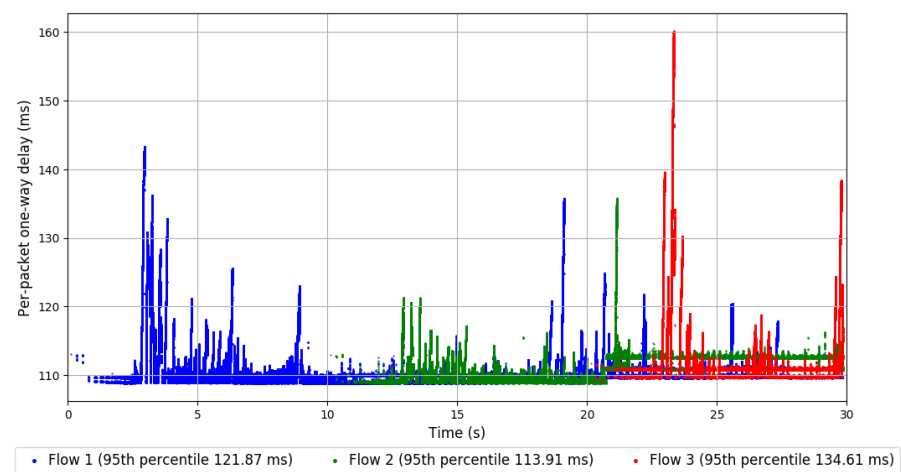
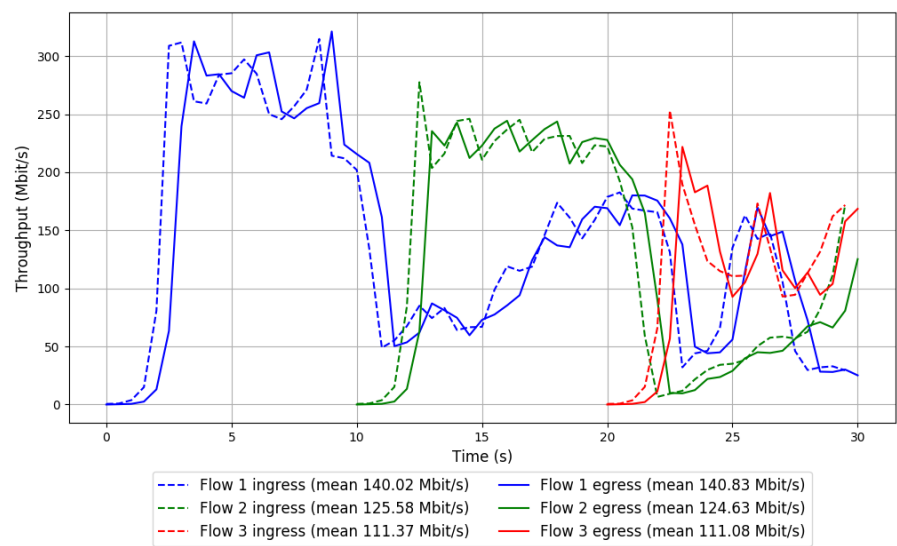


Run 6: Statistics of Copa

Start at: 2018-06-05 21:22:36
End at: 2018-06-05 21:23:06
Local clock offset: -0.091 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-05 23:40:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 259.77 Mbit/s
95th percentile per-packet one-way delay: 120.988 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 140.83 Mbit/s
95th percentile per-packet one-way delay: 121.867 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 124.63 Mbit/s
95th percentile per-packet one-way delay: 113.909 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 111.08 Mbit/s
95th percentile per-packet one-way delay: 134.609 ms
Loss rate: 2.60%

Run 6: Report of Copa — Data Link

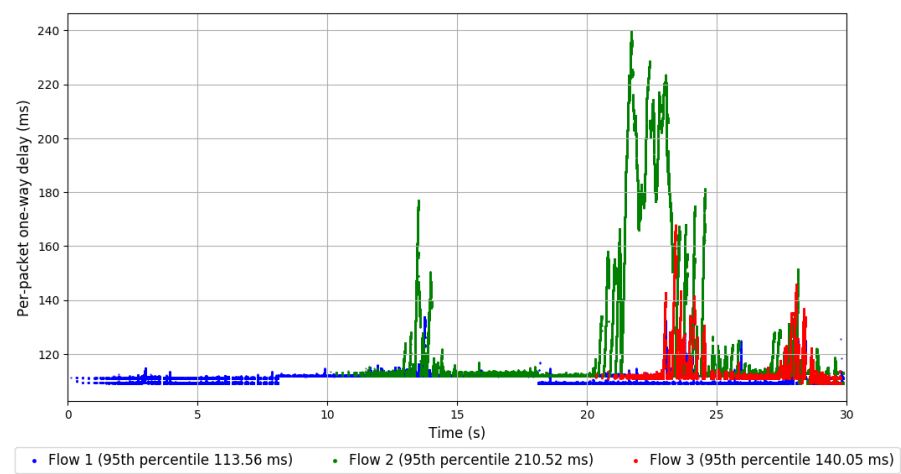
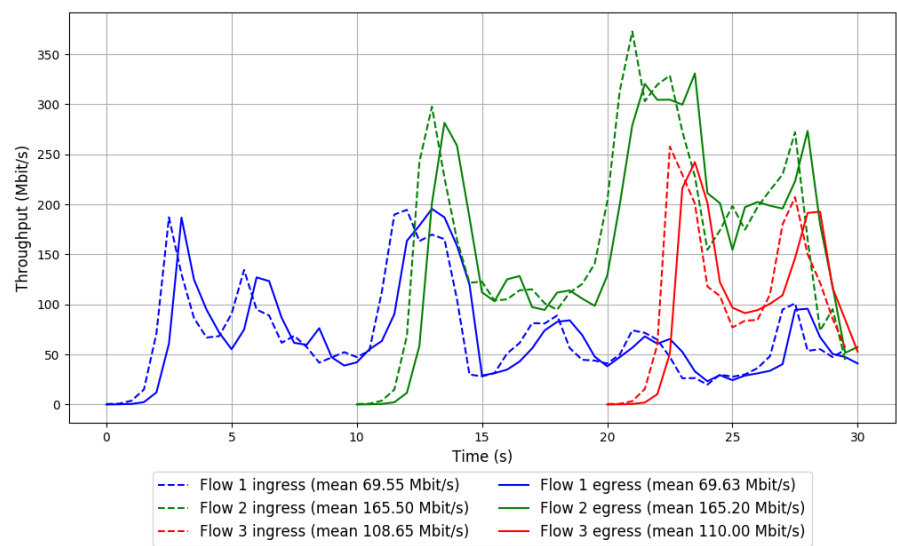


Run 7: Statistics of Copa

Start at: 2018-06-05 21:46:39
End at: 2018-06-05 21:47:09
Local clock offset: -0.266 ms
Remote clock offset: -0.442 ms

Below is generated by plot.py at 2018-06-05 23:41:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.89 Mbit/s
95th percentile per-packet one-way delay: 193.880 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 69.63 Mbit/s
95th percentile per-packet one-way delay: 113.558 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 165.20 Mbit/s
95th percentile per-packet one-way delay: 210.517 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 110.00 Mbit/s
95th percentile per-packet one-way delay: 140.046 ms
Loss rate: 1.33%

Run 7: Report of Copa — Data Link

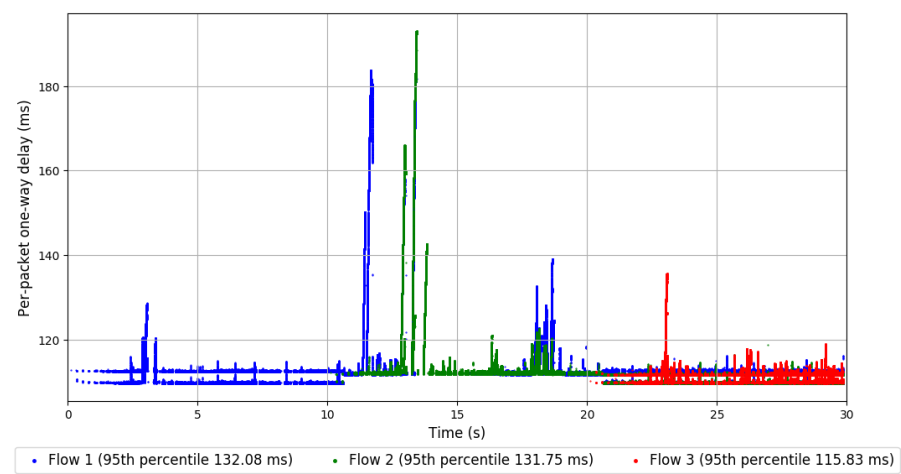
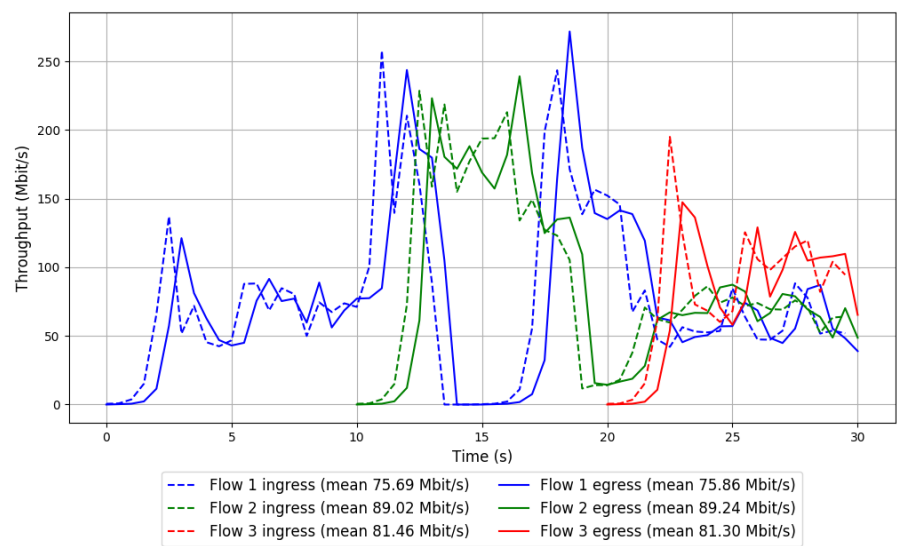


Run 8: Statistics of Copa

Start at: 2018-06-05 22:10:36
End at: 2018-06-05 22:11:06
Local clock offset: -0.07 ms
Remote clock offset: -0.178 ms

Below is generated by plot.py at 2018-06-05 23:41:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 161.68 Mbit/s
95th percentile per-packet one-way delay: 128.016 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 75.86 Mbit/s
95th percentile per-packet one-way delay: 132.081 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 131.745 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 115.825 ms
Loss rate: 2.41%

Run 8: Report of Copa — Data Link

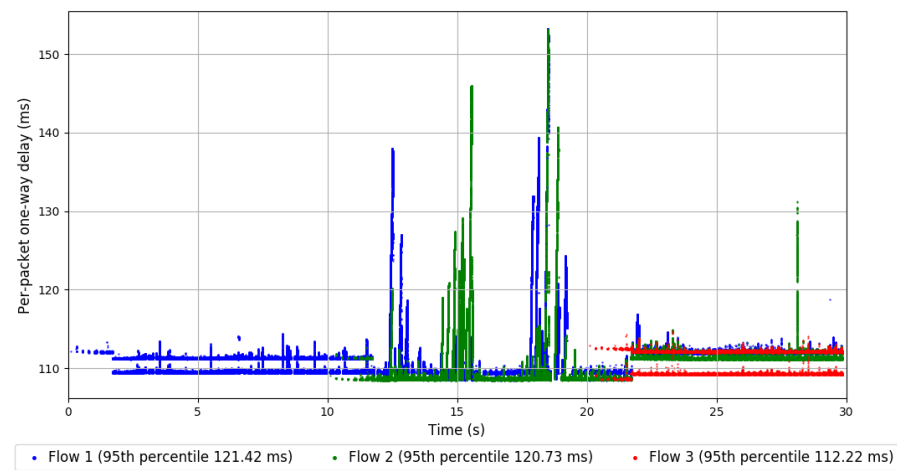
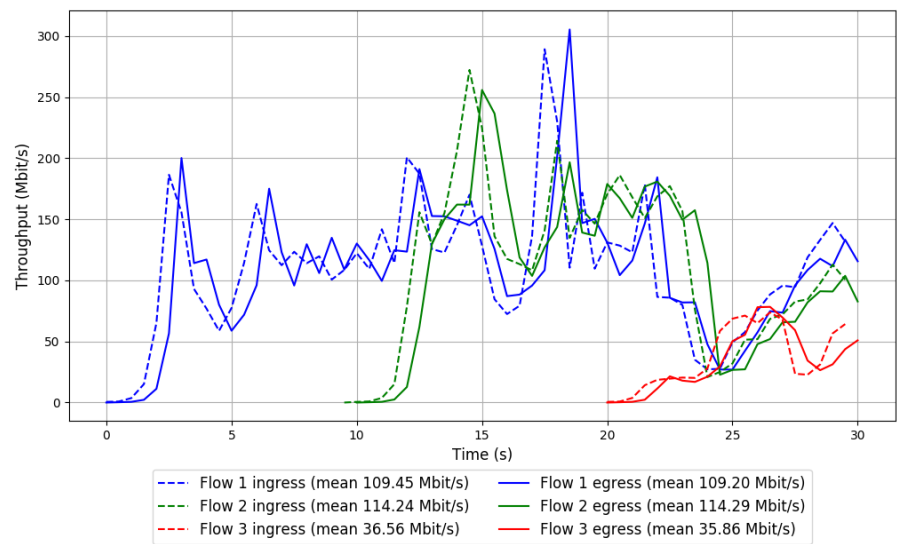


Run 9: Statistics of Copa

Start at: 2018-06-05 22:34:15
End at: 2018-06-05 22:34:45
Local clock offset: -0.49 ms
Remote clock offset: -0.233 ms

Below is generated by plot.py at 2018-06-05 23:41:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 196.72 Mbit/s
95th percentile per-packet one-way delay: 120.348 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 109.20 Mbit/s
95th percentile per-packet one-way delay: 121.421 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 114.29 Mbit/s
95th percentile per-packet one-way delay: 120.730 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 35.86 Mbit/s
95th percentile per-packet one-way delay: 112.215 ms
Loss rate: 4.14%

Run 9: Report of Copa — Data Link

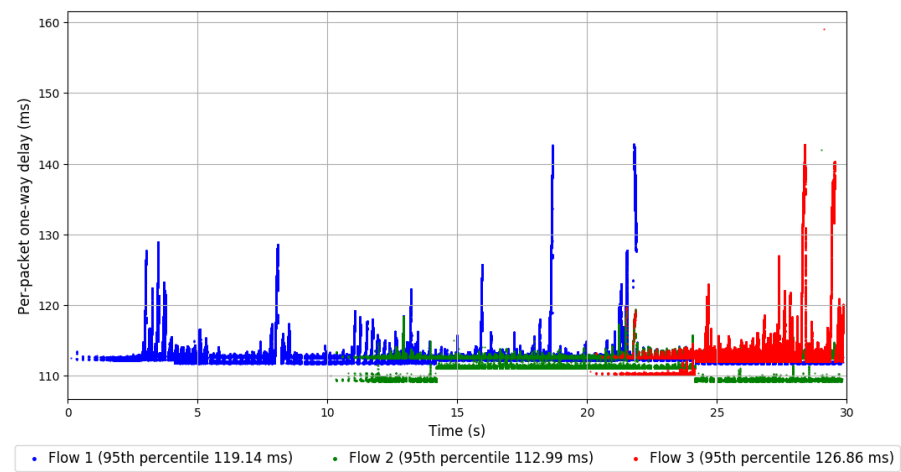
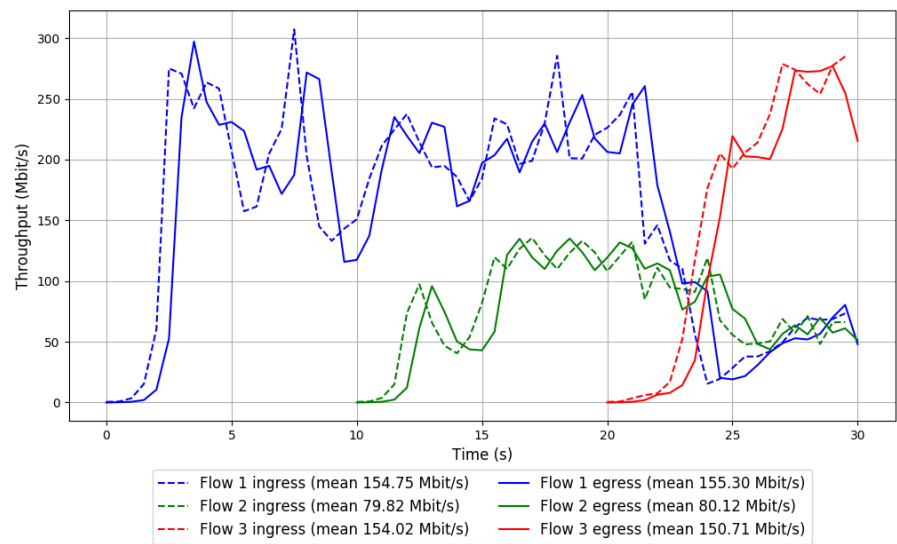


Run 10: Statistics of Copa

Start at: 2018-06-05 22:58:03
End at: 2018-06-05 22:58:33
Local clock offset: -0.367 ms
Remote clock offset: -0.296 ms

Below is generated by plot.py at 2018-06-05 23:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 257.58 Mbit/s
95th percentile per-packet one-way delay: 118.680 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 155.30 Mbit/s
95th percentile per-packet one-way delay: 119.136 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 80.12 Mbit/s
95th percentile per-packet one-way delay: 112.988 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 150.71 Mbit/s
95th percentile per-packet one-way delay: 126.863 ms
Loss rate: 4.33%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-05 19:26:31

End at: 2018-06-05 19:27:01

Local clock offset: -0.092 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2018-06-05 23:45:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.38 Mbit/s

95th percentile per-packet one-way delay: 121.115 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 121.408 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 99.24 Mbit/s

95th percentile per-packet one-way delay: 120.986 ms

Loss rate: 1.15%

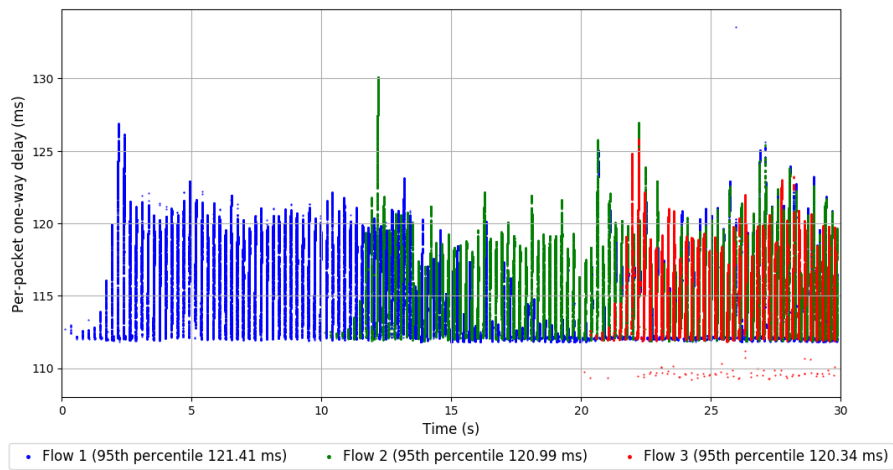
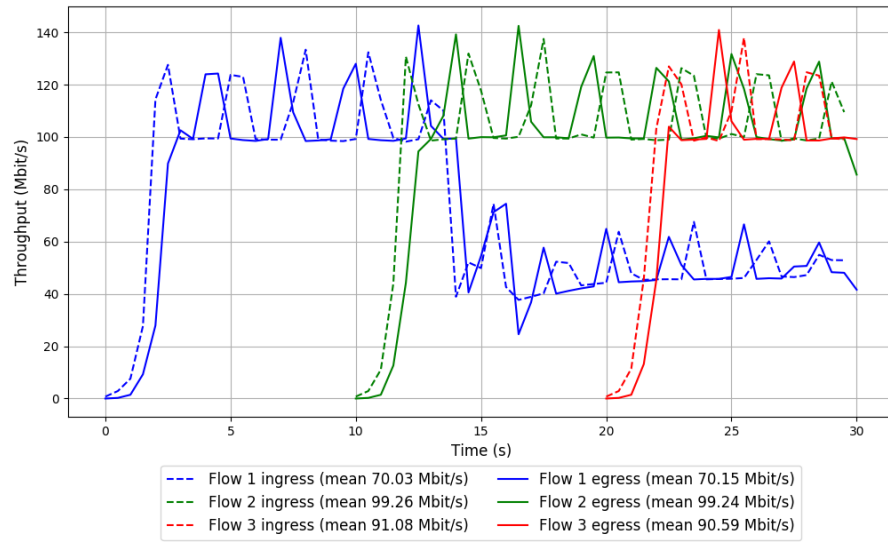
-- Flow 3:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 120.342 ms

Loss rate: 2.76%

Run 1: Report of TCP Cubic — Data Link

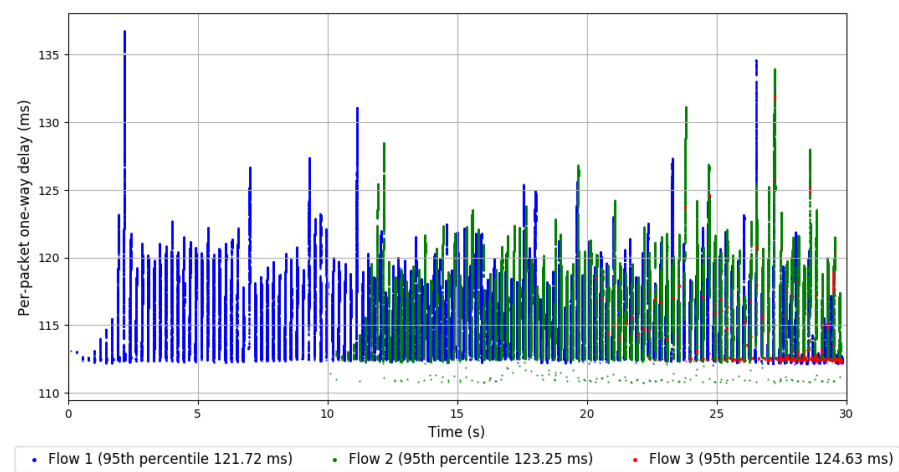
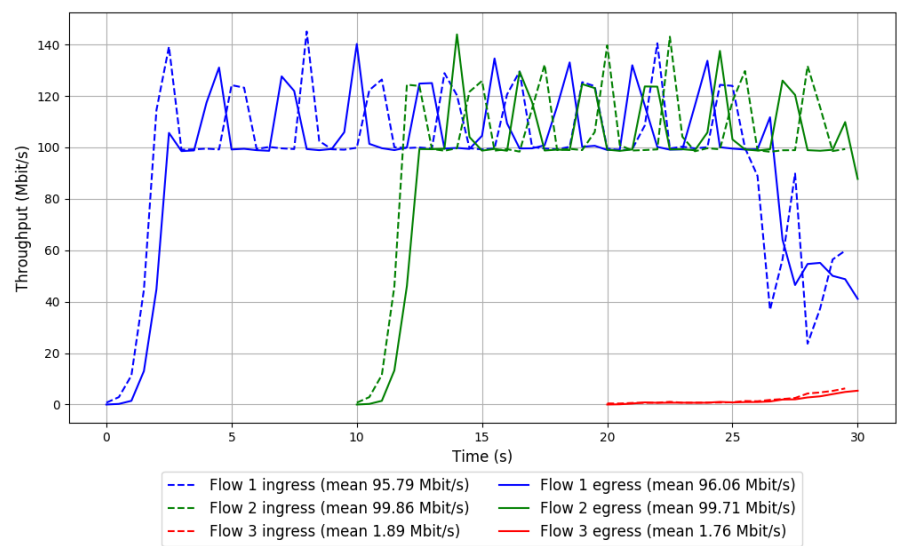


Run 2: Statistics of TCP Cubic

Start at: 2018-06-05 19:50:51
End at: 2018-06-05 19:51:21
Local clock offset: -0.108 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-06-05 23:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 162.58 Mbit/s
95th percentile per-packet one-way delay: 122.379 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 121.715 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 99.71 Mbit/s
95th percentile per-packet one-way delay: 123.250 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 124.627 ms
Loss rate: 9.09%

Run 2: Report of TCP Cubic — Data Link

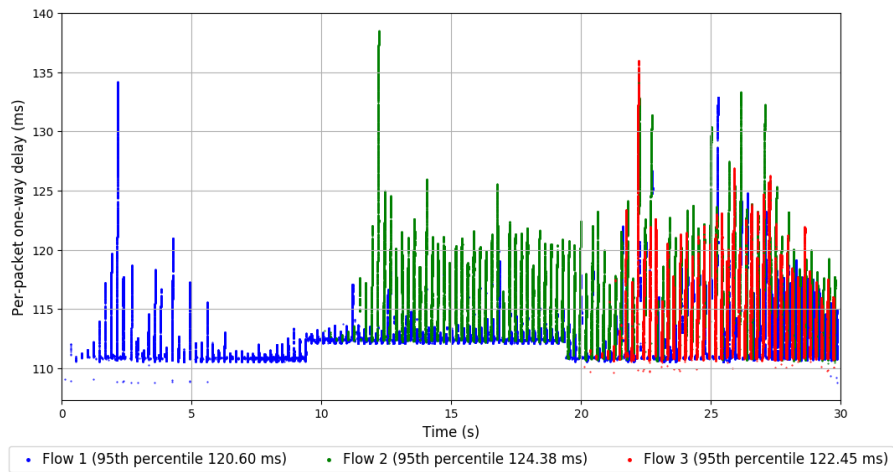
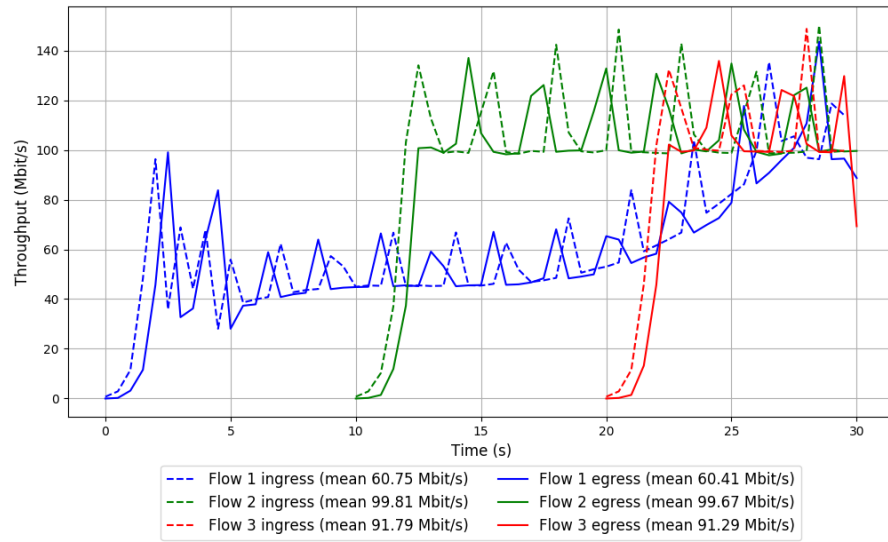


Run 3: Statistics of TCP Cubic

Start at: 2018-06-05 20:14:48
End at: 2018-06-05 20:15:18
Local clock offset: -0.177 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-05 23:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.79 Mbit/s
95th percentile per-packet one-way delay: 122.982 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 120.601 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 99.67 Mbit/s
95th percentile per-packet one-way delay: 124.384 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 122.448 ms
Loss rate: 2.77%

Run 3: Report of TCP Cubic — Data Link

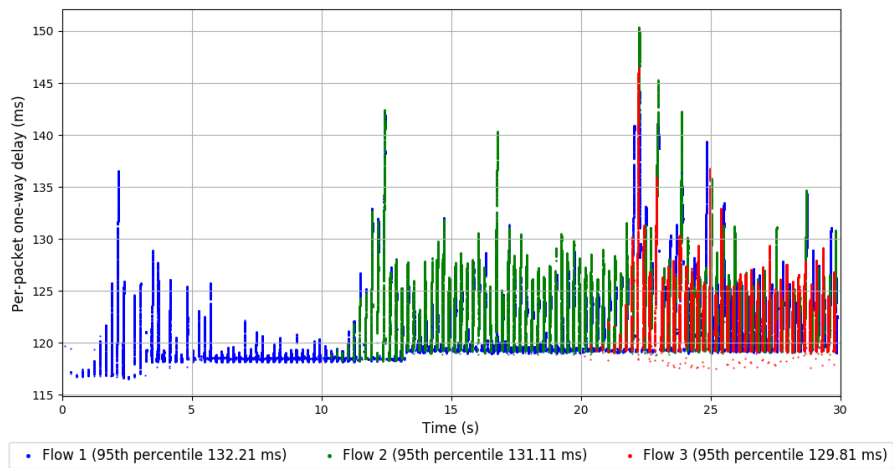
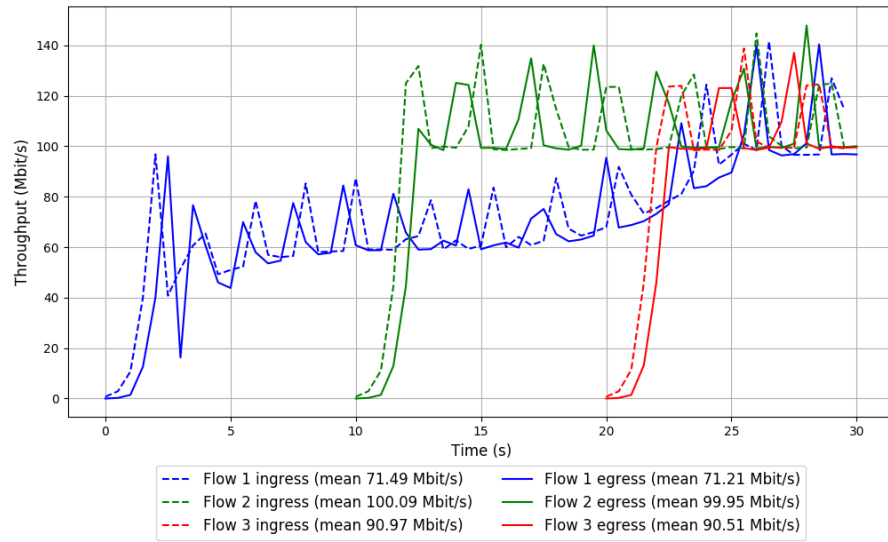


Run 4: Statistics of TCP Cubic

Start at: 2018-06-05 20:38:54
End at: 2018-06-05 20:39:24
Local clock offset: 6.667 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-05 23:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 166.77 Mbit/s
95th percentile per-packet one-way delay: 131.524 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 71.21 Mbit/s
95th percentile per-packet one-way delay: 132.212 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 99.95 Mbit/s
95th percentile per-packet one-way delay: 131.110 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 129.815 ms
Loss rate: 2.76%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-05 21:02:53

End at: 2018-06-05 21:03:23

Local clock offset: -0.223 ms

Remote clock offset: 0.336 ms

Below is generated by plot.py at 2018-06-05 23:45:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.75 Mbit/s

95th percentile per-packet one-way delay: 119.908 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 103.04 Mbit/s

95th percentile per-packet one-way delay: 119.961 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 120.146 ms

Loss rate: 1.43%

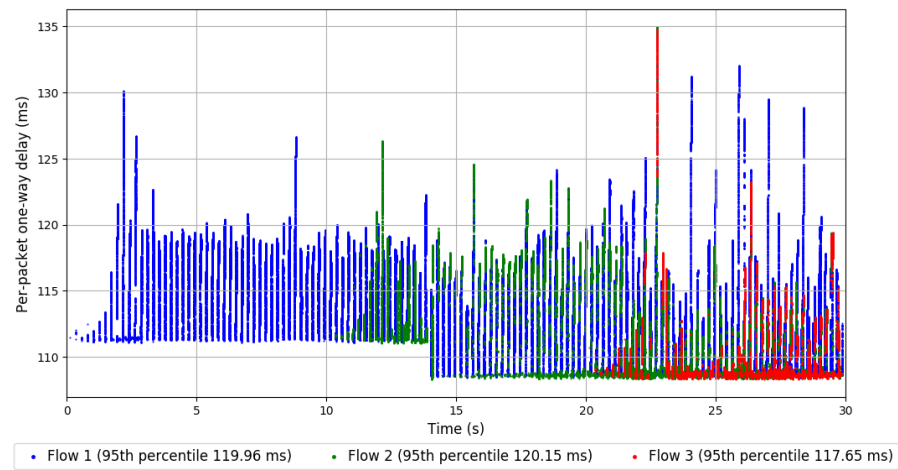
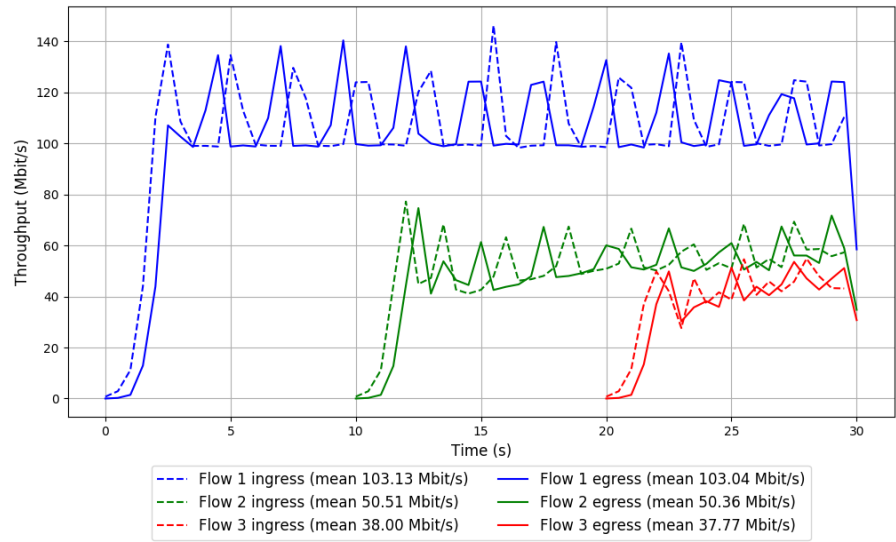
-- Flow 3:

Average throughput: 37.77 Mbit/s

95th percentile per-packet one-way delay: 117.653 ms

Loss rate: 2.85%

Run 5: Report of TCP Cubic — Data Link

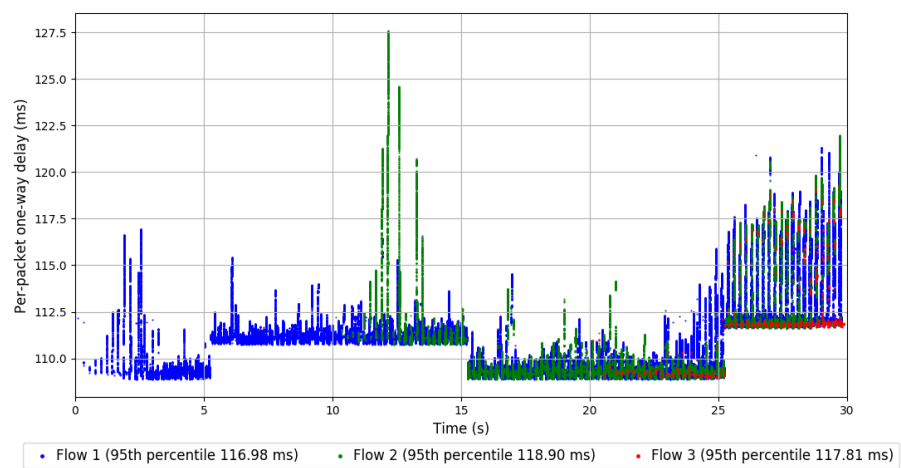
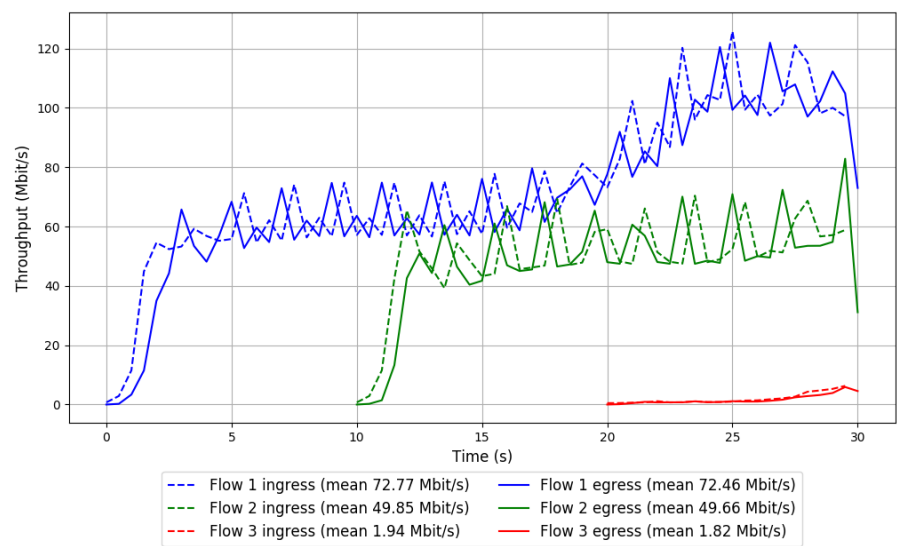


Run 6: Statistics of TCP Cubic

Start at: 2018-06-05 21:27:12
End at: 2018-06-05 21:27:42
Local clock offset: -0.066 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-05 23:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.80 Mbit/s
95th percentile per-packet one-way delay: 117.725 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 72.46 Mbit/s
95th percentile per-packet one-way delay: 116.982 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 49.66 Mbit/s
95th percentile per-packet one-way delay: 118.904 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 117.808 ms
Loss rate: 8.68%

Run 6: Report of TCP Cubic — Data Link

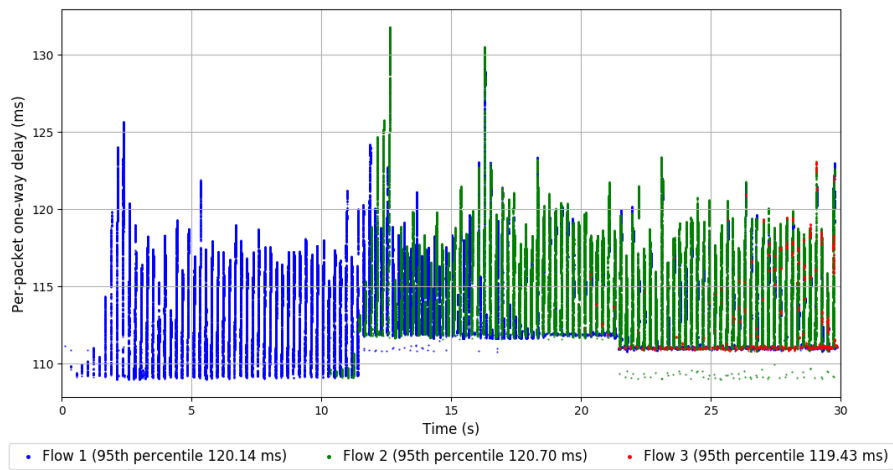
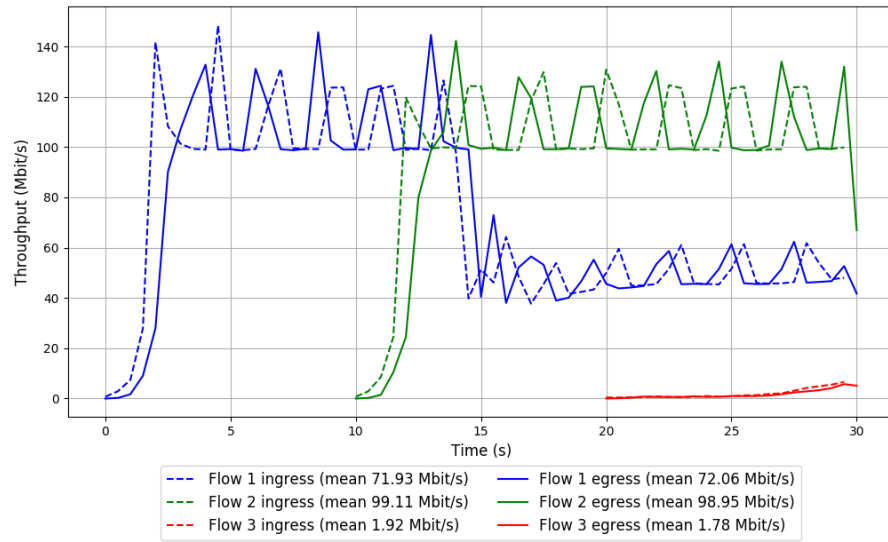


Run 7: Statistics of TCP Cubic

Start at: 2018-06-05 21:51:06
End at: 2018-06-05 21:51:36
Local clock offset: -0.072 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-05 23:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 137.87 Mbit/s
95th percentile per-packet one-way delay: 120.450 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 72.06 Mbit/s
95th percentile per-packet one-way delay: 120.138 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 98.95 Mbit/s
95th percentile per-packet one-way delay: 120.698 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 119.428 ms
Loss rate: 9.27%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-05 22:15:00

End at: 2018-06-05 22:15:30

Local clock offset: 0.025 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-06-05 23:45:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.71 Mbit/s

95th percentile per-packet one-way delay: 119.837 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 103.92 Mbit/s

95th percentile per-packet one-way delay: 120.003 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 44.43 Mbit/s

95th percentile per-packet one-way delay: 118.144 ms

Loss rate: 1.48%

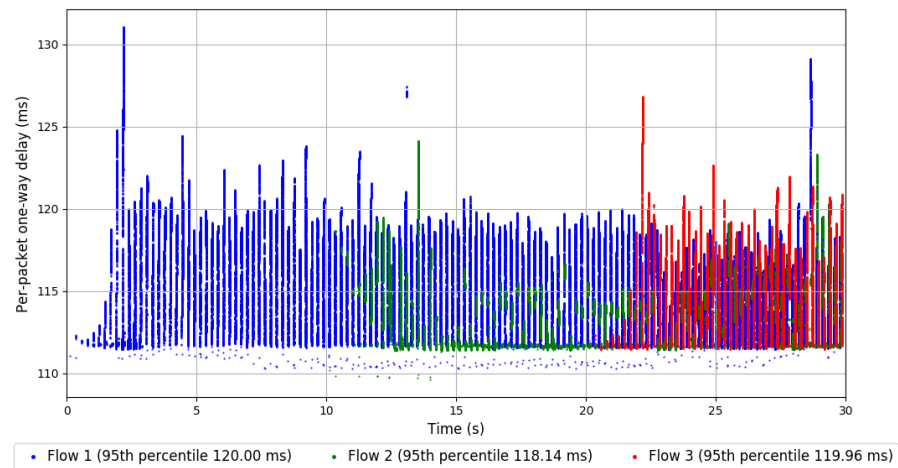
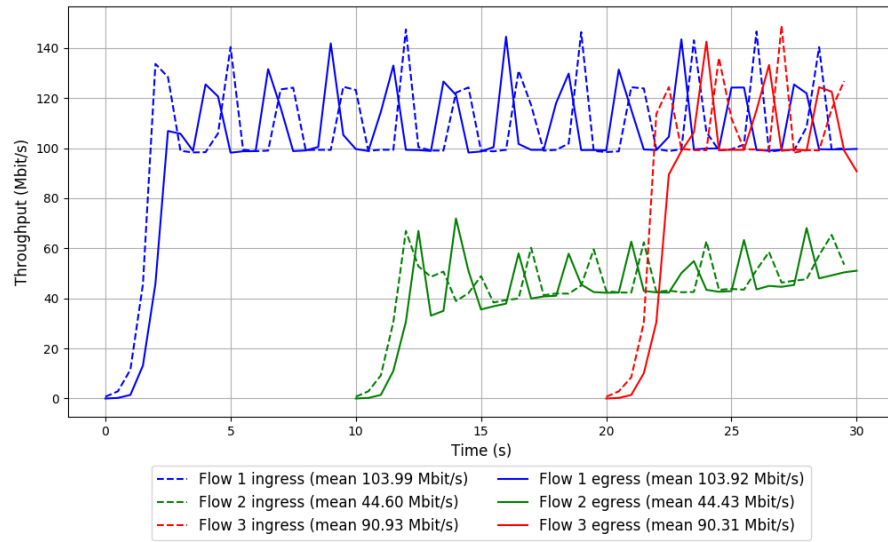
-- Flow 3:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 119.958 ms

Loss rate: 2.90%

Run 8: Report of TCP Cubic — Data Link

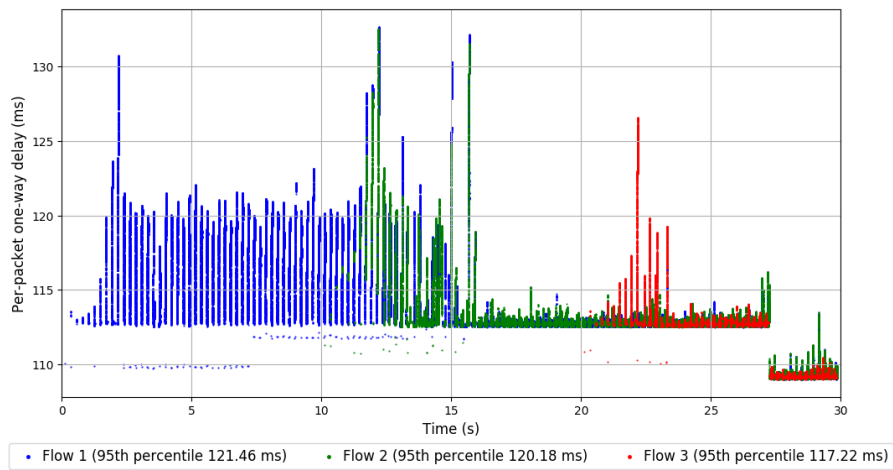
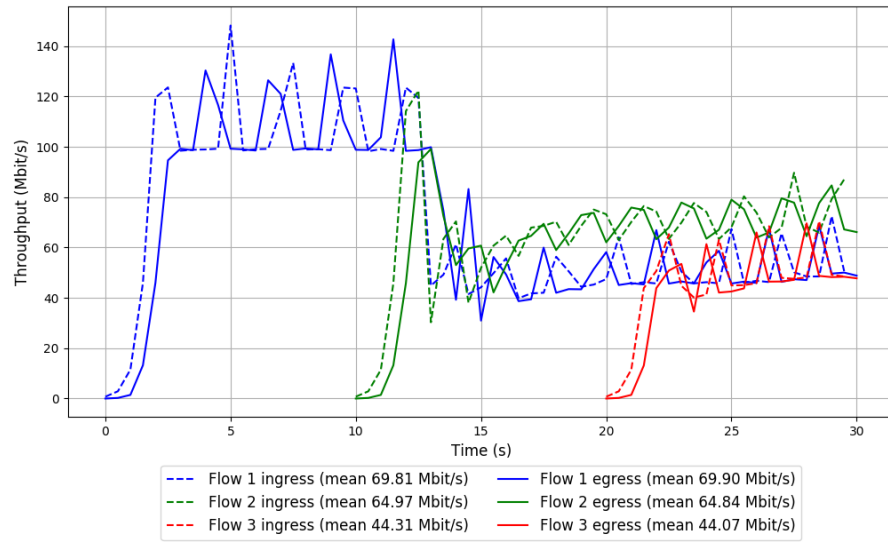


Run 9: Statistics of TCP Cubic

Start at: 2018-06-05 22:38:40
End at: 2018-06-05 22:39:10
Local clock offset: 0.062 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-06-05 23:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 127.28 Mbit/s
95th percentile per-packet one-way delay: 120.863 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 69.90 Mbit/s
95th percentile per-packet one-way delay: 121.460 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 64.84 Mbit/s
95th percentile per-packet one-way delay: 120.178 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 44.07 Mbit/s
95th percentile per-packet one-way delay: 117.222 ms
Loss rate: 2.75%

Run 9: Report of TCP Cubic — Data Link

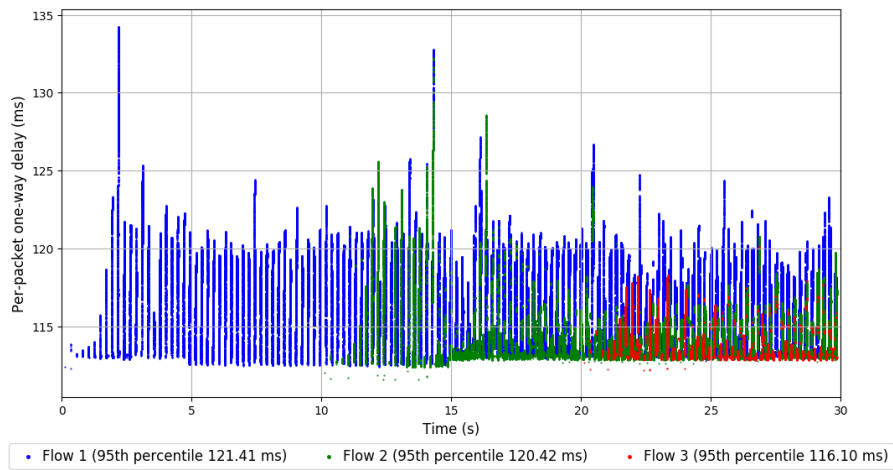
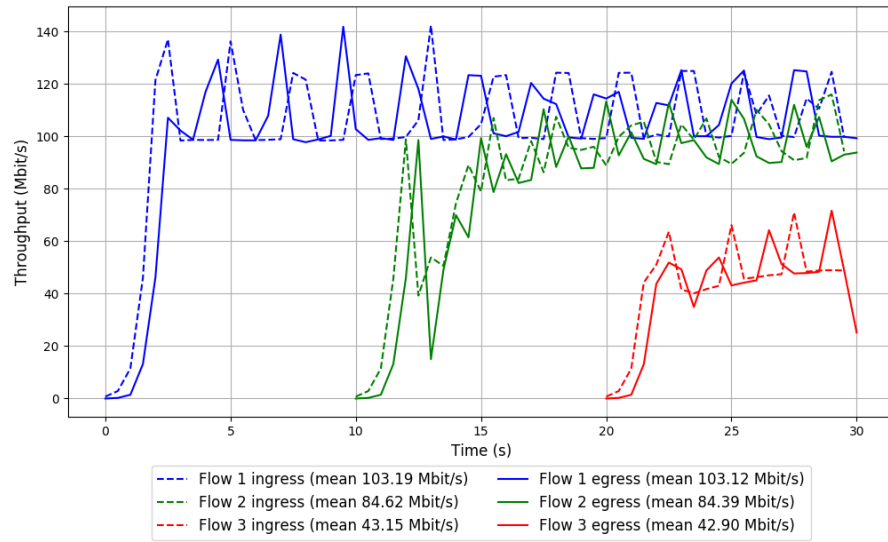


Run 10: Statistics of TCP Cubic

Start at: 2018-06-05 23:02:42
End at: 2018-06-05 23:03:12
Local clock offset: -0.084 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2018-06-05 23:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 173.05 Mbit/s
95th percentile per-packet one-way delay: 121.032 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 103.12 Mbit/s
95th percentile per-packet one-way delay: 121.411 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 84.39 Mbit/s
95th percentile per-packet one-way delay: 120.424 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 42.90 Mbit/s
95th percentile per-packet one-way delay: 116.101 ms
Loss rate: 2.84%

Run 10: Report of TCP Cubic — Data Link

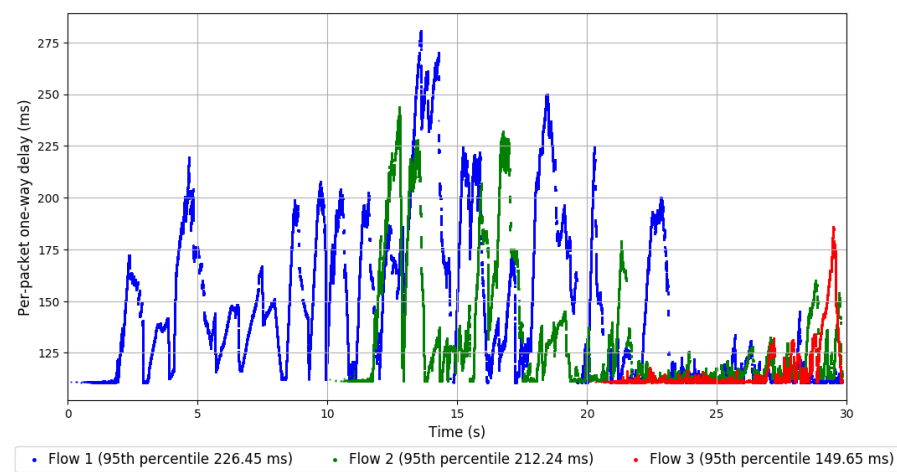
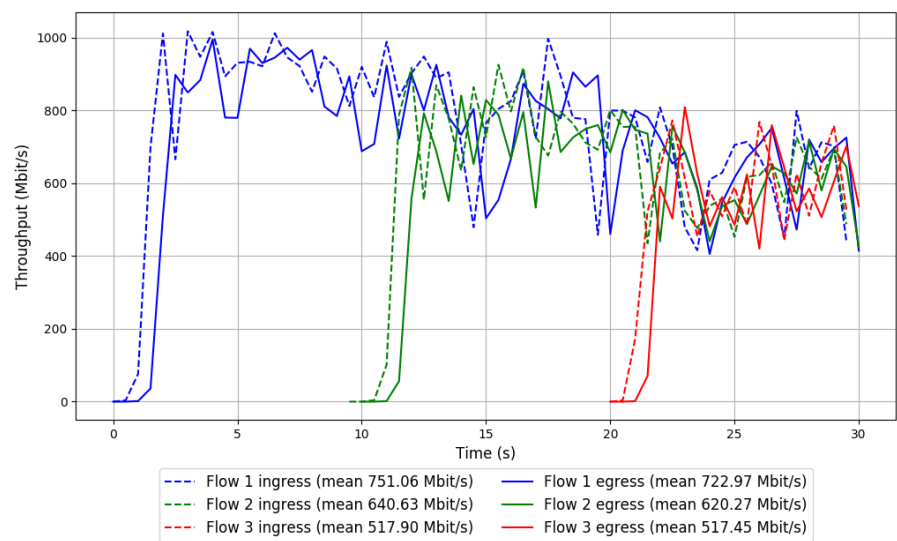


Run 1: Statistics of FillP

Start at: 2018-06-05 19:33:42
End at: 2018-06-05 19:34:12
Local clock offset: -0.124 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-06 00:07:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 1303.48 Mbit/s
95th percentile per-packet one-way delay: 215.347 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 722.97 Mbit/s
95th percentile per-packet one-way delay: 226.450 ms
Loss rate: 4.45%
-- Flow 2:
Average throughput: 620.27 Mbit/s
95th percentile per-packet one-way delay: 212.235 ms
Loss rate: 4.21%
-- Flow 3:
Average throughput: 517.45 Mbit/s
95th percentile per-packet one-way delay: 149.648 ms
Loss rate: 2.35%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-05 19:57:56

End at: 2018-06-05 19:58:26

Local clock offset: -0.174 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-06-06 00:07:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 1228.15 Mbit/s

95th percentile per-packet one-way delay: 187.600 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 667.07 Mbit/s

95th percentile per-packet one-way delay: 210.650 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 598.89 Mbit/s

95th percentile per-packet one-way delay: 182.915 ms

Loss rate: 3.27%

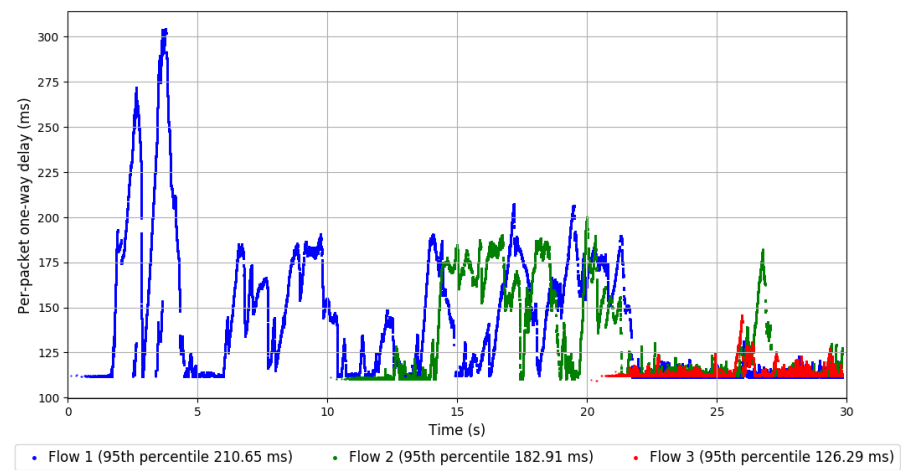
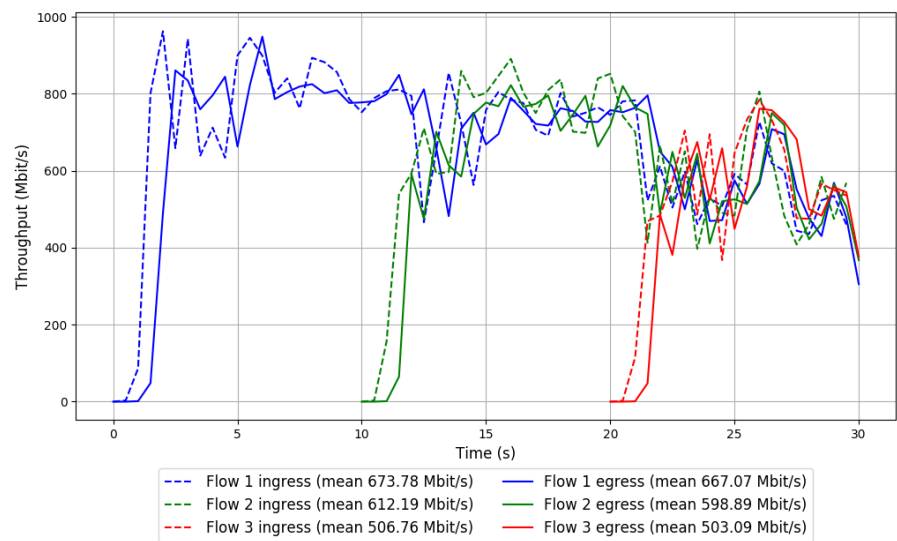
-- Flow 3:

Average throughput: 503.09 Mbit/s

95th percentile per-packet one-way delay: 126.293 ms

Loss rate: 2.97%

Run 2: Report of FillP — Data Link

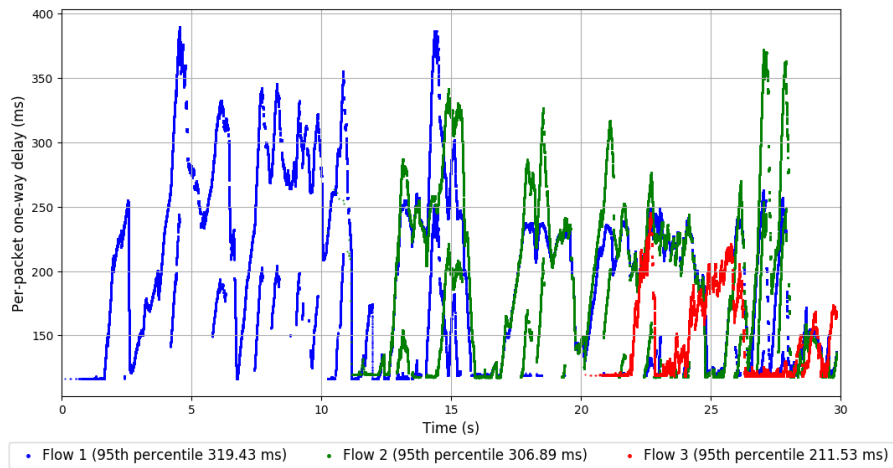
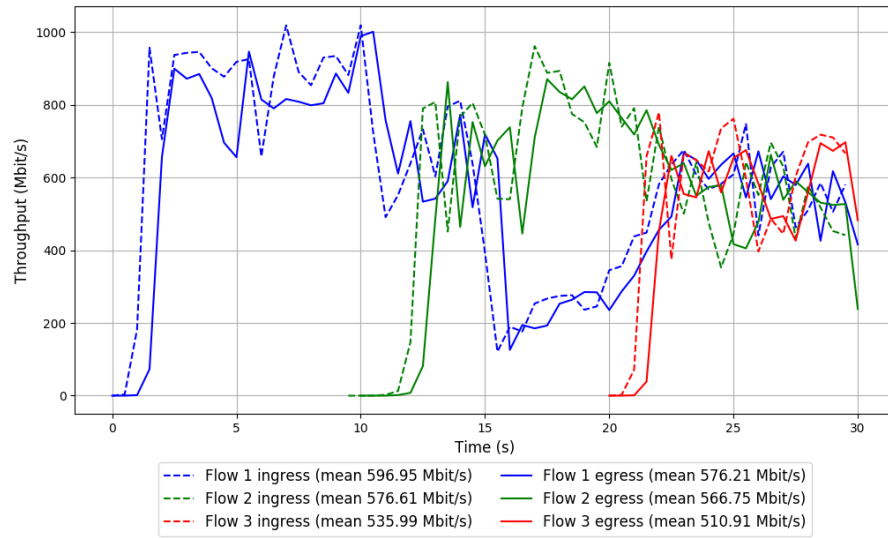


Run 3: Statistics of FillP

Start at: 2018-06-05 20:21:53
End at: 2018-06-05 20:22:23
Local clock offset: 6.639 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-06 00:07:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 1116.72 Mbit/s
95th percentile per-packet one-way delay: 312.107 ms
Loss rate: 4.32%
-- Flow 1:
Average throughput: 576.21 Mbit/s
95th percentile per-packet one-way delay: 319.430 ms
Loss rate: 4.19%
-- Flow 2:
Average throughput: 566.75 Mbit/s
95th percentile per-packet one-way delay: 306.889 ms
Loss rate: 3.36%
-- Flow 3:
Average throughput: 510.91 Mbit/s
95th percentile per-packet one-way delay: 211.527 ms
Loss rate: 6.83%

Run 3: Report of FillP — Data Link

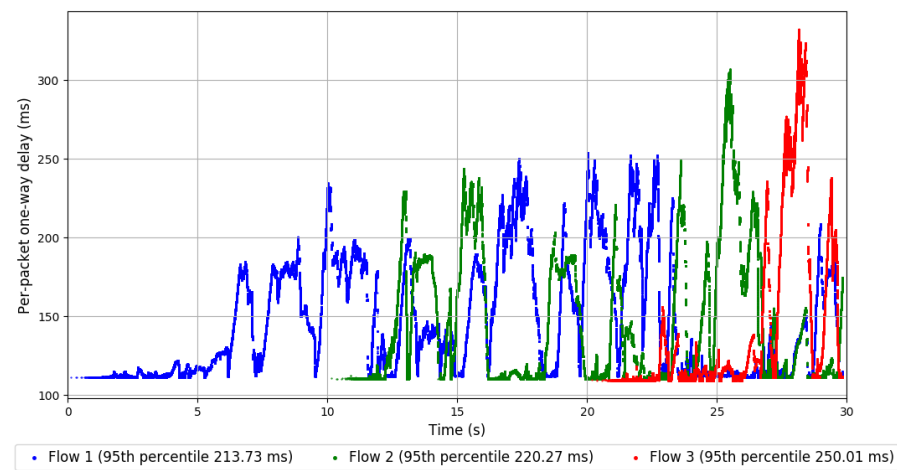
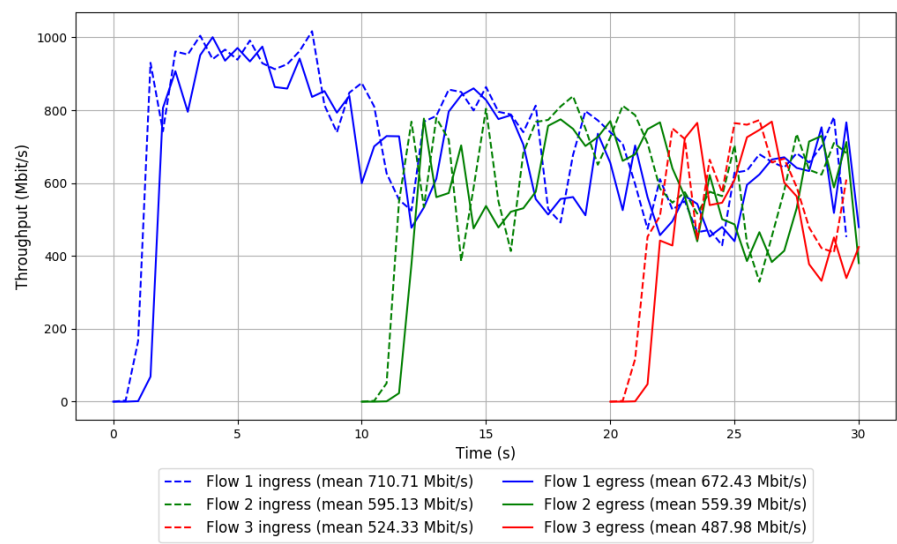


Run 4: Statistics of FillP

Start at: 2018-06-05 20:46:11
End at: 2018-06-05 20:46:41
Local clock offset: -0.073 ms
Remote clock offset: 0.351 ms

Below is generated by plot.py at 2018-06-06 00:07:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 1201.67 Mbit/s
95th percentile per-packet one-way delay: 219.257 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 672.43 Mbit/s
95th percentile per-packet one-way delay: 213.732 ms
Loss rate: 6.08%
-- Flow 2:
Average throughput: 559.39 Mbit/s
95th percentile per-packet one-way delay: 220.272 ms
Loss rate: 7.06%
-- Flow 3:
Average throughput: 487.98 Mbit/s
95th percentile per-packet one-way delay: 250.014 ms
Loss rate: 9.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-05 21:10:00

End at: 2018-06-05 21:10:30

Local clock offset: -0.023 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-06-06 00:07:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 1215.54 Mbit/s

95th percentile per-packet one-way delay: 220.209 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 694.59 Mbit/s

95th percentile per-packet one-way delay: 222.807 ms

Loss rate: 2.81%

-- Flow 2:

Average throughput: 567.93 Mbit/s

95th percentile per-packet one-way delay: 178.533 ms

Loss rate: 2.03%

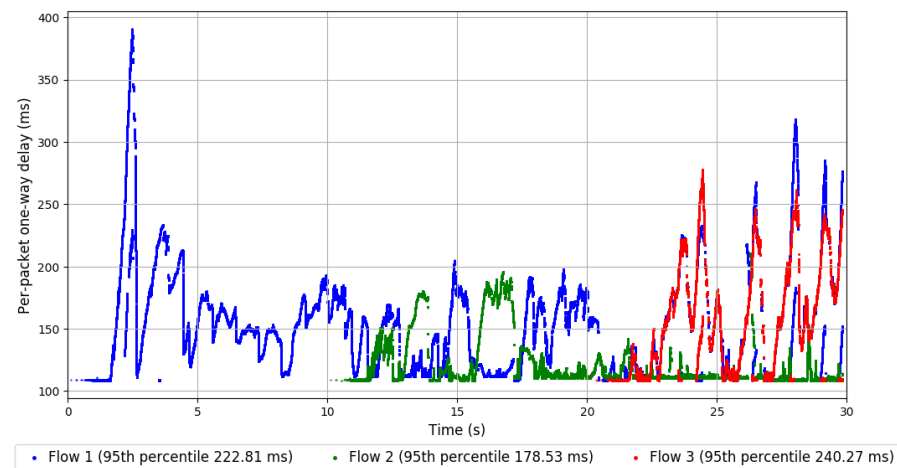
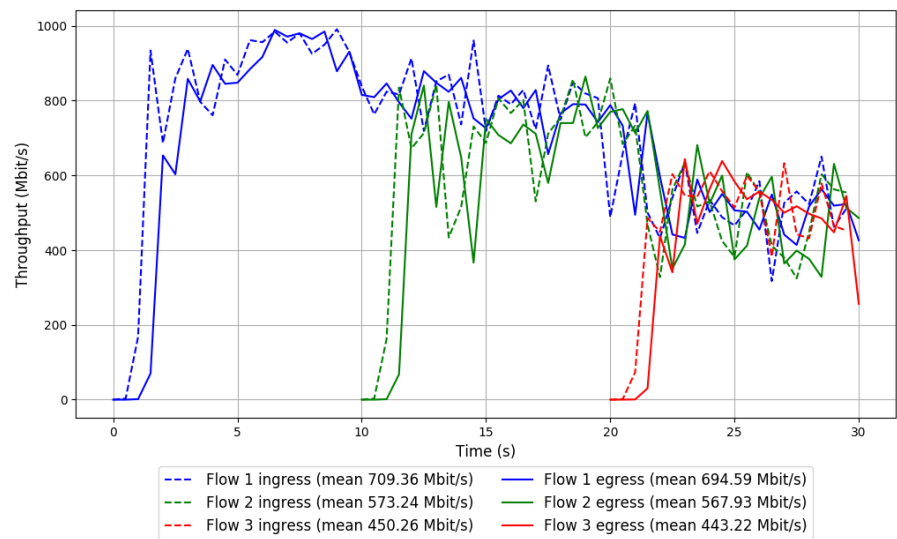
-- Flow 3:

Average throughput: 443.22 Mbit/s

95th percentile per-packet one-way delay: 240.266 ms

Loss rate: 3.80%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-05 21:34:15

End at: 2018-06-05 21:34:45

Local clock offset: -0.444 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-06-06 00:08:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 1231.51 Mbit/s

95th percentile per-packet one-way delay: 241.888 ms

Loss rate: 3.71%

-- Flow 1:

Average throughput: 687.22 Mbit/s

95th percentile per-packet one-way delay: 215.085 ms

Loss rate: 4.19%

-- Flow 2:

Average throughput: 595.41 Mbit/s

95th percentile per-packet one-way delay: 236.634 ms

Loss rate: 3.24%

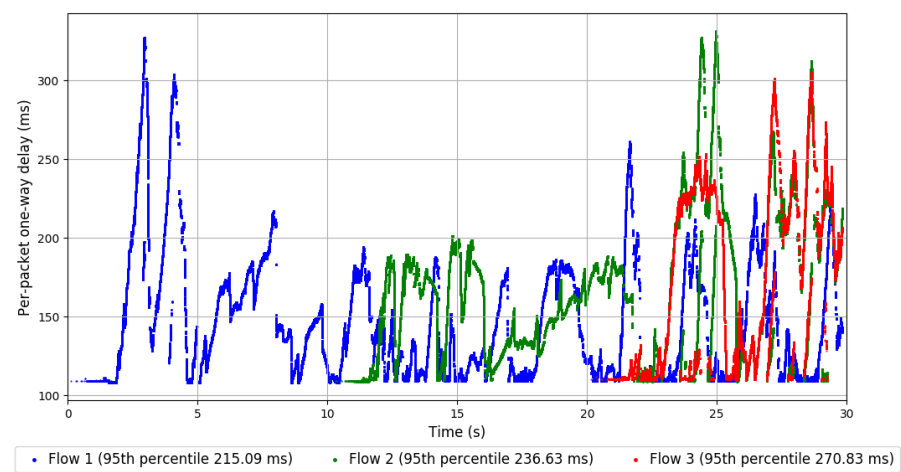
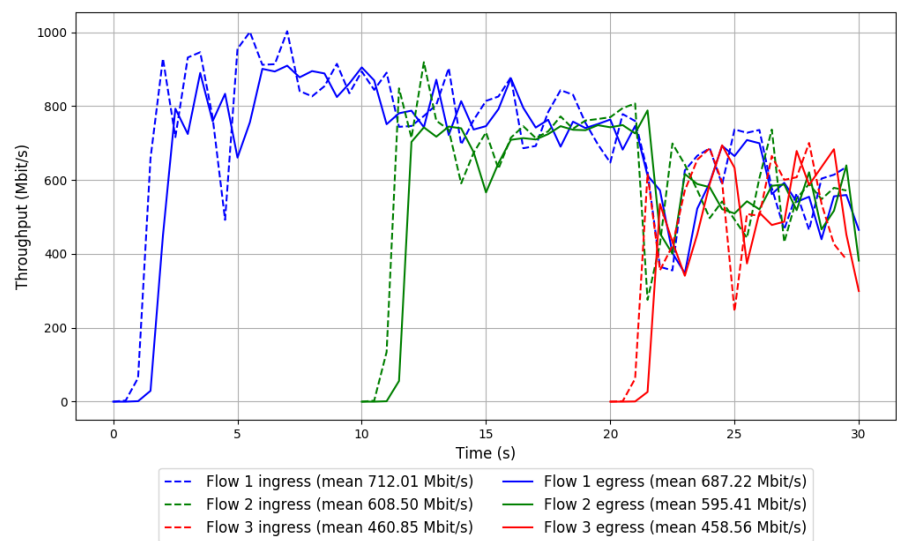
-- Flow 3:

Average throughput: 458.56 Mbit/s

95th percentile per-packet one-way delay: 270.833 ms

Loss rate: 2.73%

Run 6: Report of FillP — Data Link

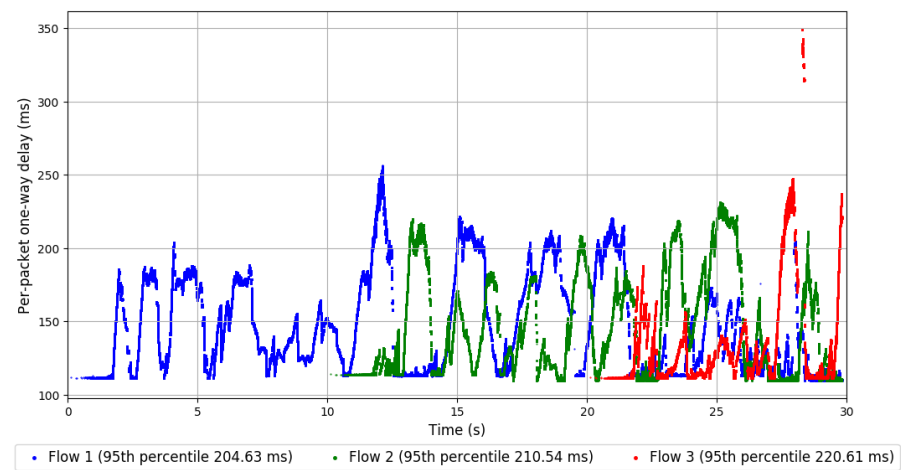
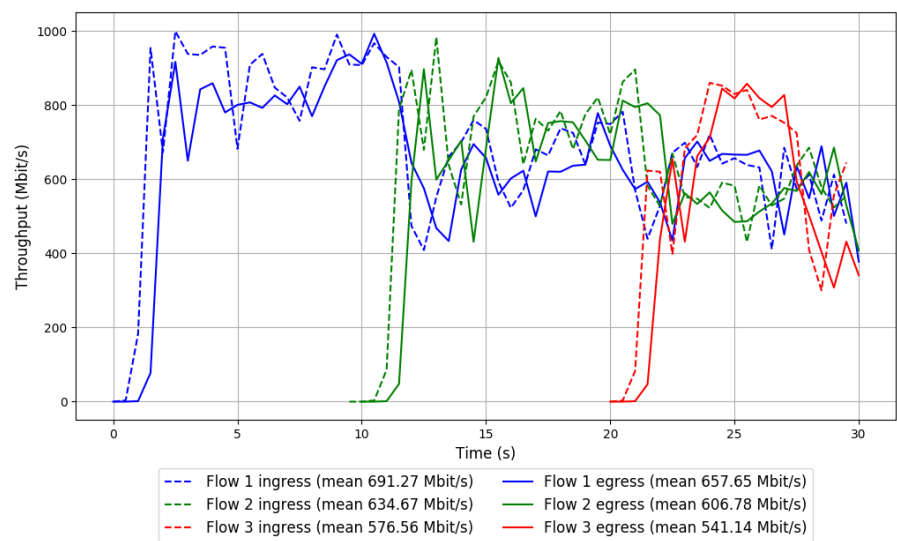


Run 7: Statistics of FillP

Start at: 2018-06-05 21:58:10
End at: 2018-06-05 21:58:40
Local clock offset: -0.206 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-06 00:09:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 1236.84 Mbit/s
95th percentile per-packet one-way delay: 207.493 ms
Loss rate: 5.94%
-- Flow 1:
Average throughput: 657.65 Mbit/s
95th percentile per-packet one-way delay: 204.630 ms
Loss rate: 5.58%
-- Flow 2:
Average throughput: 606.78 Mbit/s
95th percentile per-packet one-way delay: 210.538 ms
Loss rate: 5.48%
-- Flow 3:
Average throughput: 541.14 Mbit/s
95th percentile per-packet one-way delay: 220.609 ms
Loss rate: 8.28%

Run 7: Report of FillP — Data Link

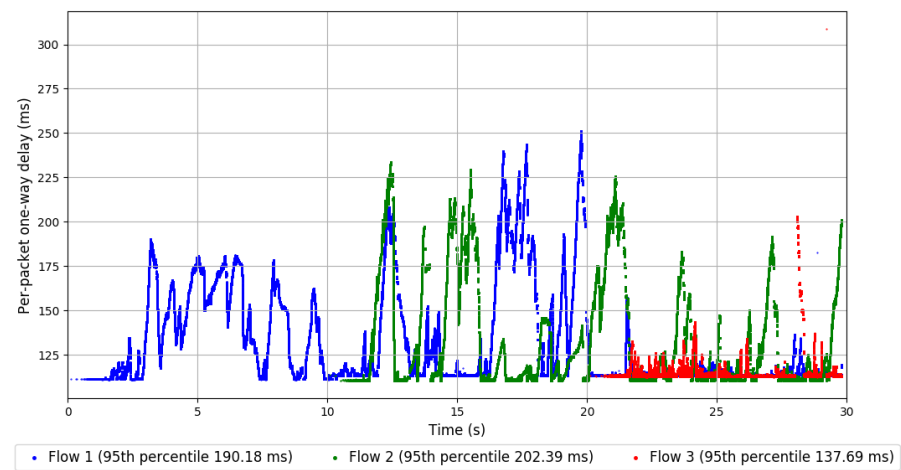
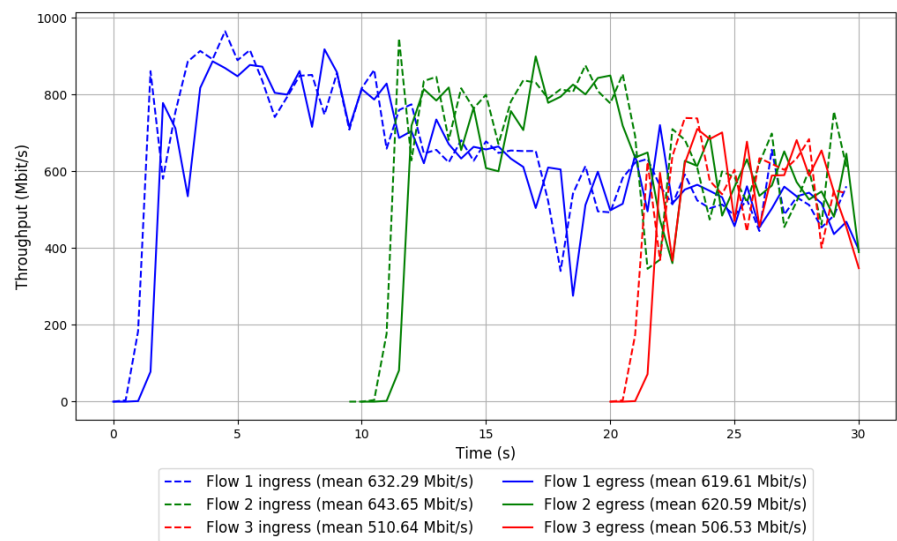


Run 8: Statistics of FillP

Start at: 2018-06-05 22:21:57
End at: 2018-06-05 22:22:27
Local clock offset: -0.419 ms
Remote clock offset: -0.582 ms

Below is generated by plot.py at 2018-06-06 00:09:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 1196.89 Mbit/s
95th percentile per-packet one-way delay: 195.338 ms
Loss rate: 3.45%
-- Flow 1:
Average throughput: 619.61 Mbit/s
95th percentile per-packet one-way delay: 190.182 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 620.59 Mbit/s
95th percentile per-packet one-way delay: 202.393 ms
Loss rate: 4.66%
-- Flow 3:
Average throughput: 506.53 Mbit/s
95th percentile per-packet one-way delay: 137.691 ms
Loss rate: 3.06%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-05 22:45:40

End at: 2018-06-05 22:46:10

Local clock offset: 0.031 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-06-06 00:28:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 1185.37 Mbit/s

95th percentile per-packet one-way delay: 149.403 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 653.81 Mbit/s

95th percentile per-packet one-way delay: 187.639 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 543.58 Mbit/s

95th percentile per-packet one-way delay: 124.678 ms

Loss rate: 1.05%

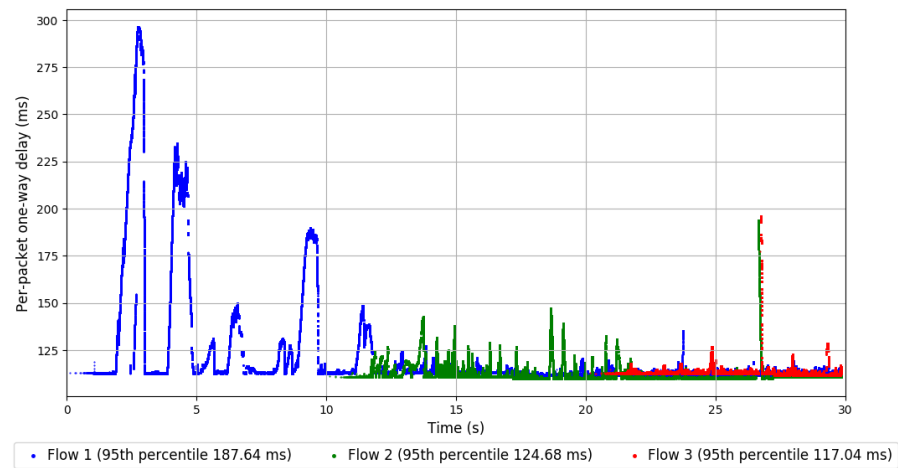
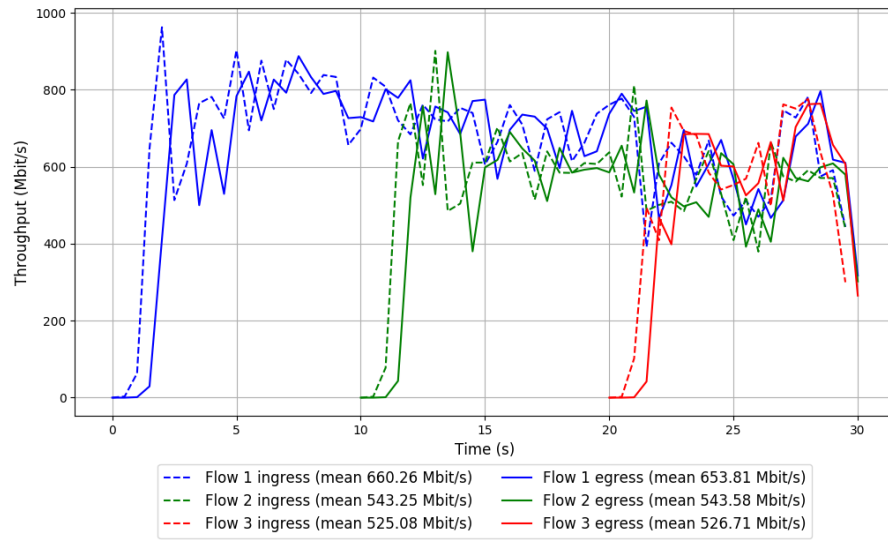
-- Flow 3:

Average throughput: 526.71 Mbit/s

95th percentile per-packet one-way delay: 117.037 ms

Loss rate: 1.09%

Run 9: Report of FillP — Data Link

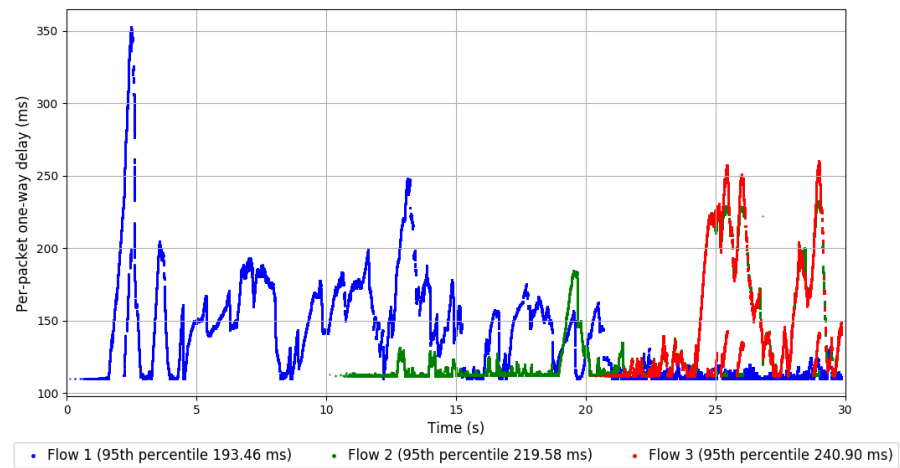
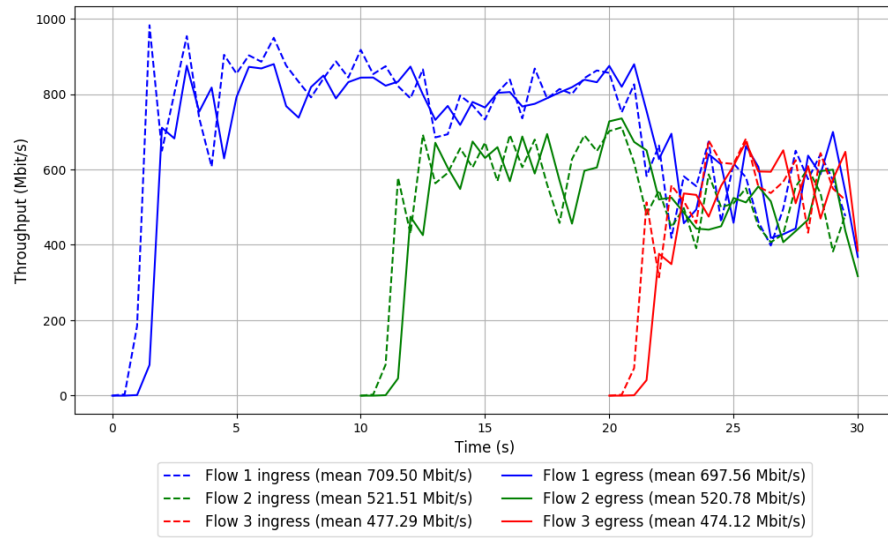


Run 10: Statistics of FillP

Start at: 2018-06-05 23:10:12
End at: 2018-06-05 23:10:42
Local clock offset: -0.02 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 1197.10 Mbit/s
95th percentile per-packet one-way delay: 218.665 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 697.56 Mbit/s
95th percentile per-packet one-way delay: 193.460 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 520.78 Mbit/s
95th percentile per-packet one-way delay: 219.583 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 474.12 Mbit/s
95th percentile per-packet one-way delay: 240.901 ms
Loss rate: 2.84%

Run 10: Report of FillP — Data Link

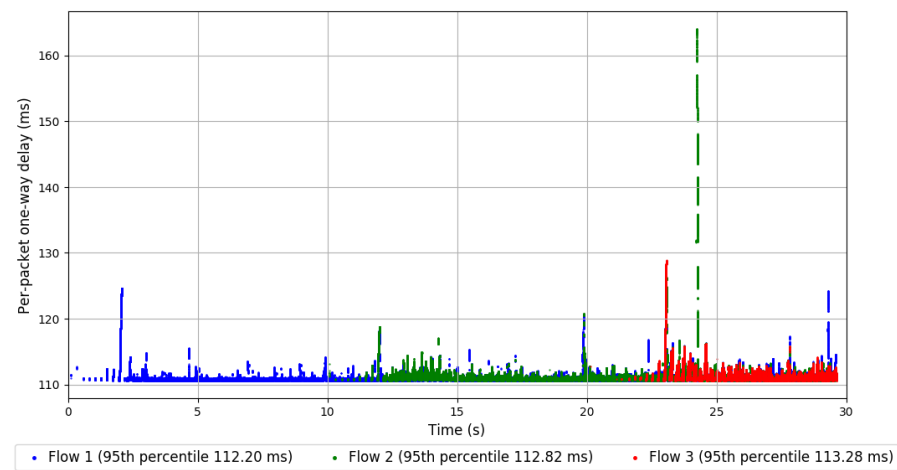
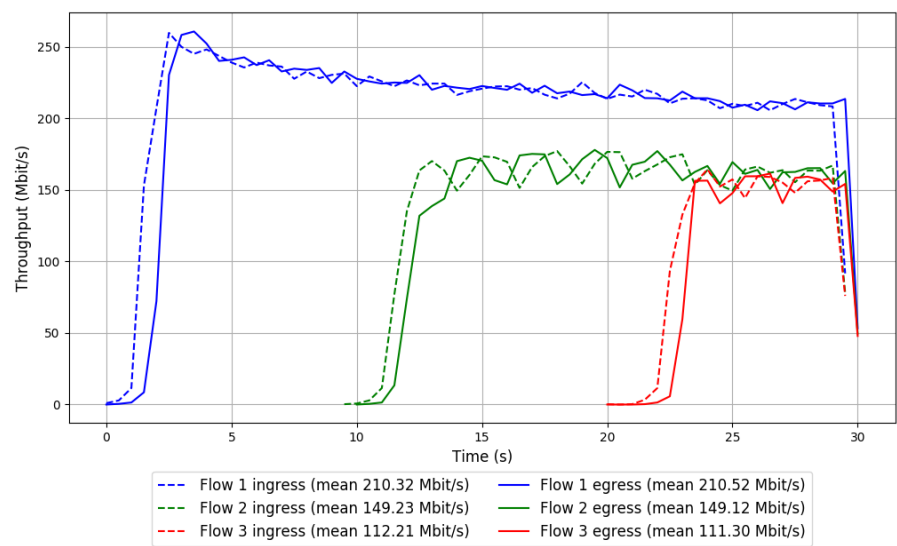


```
Run 1: Statistics of Indigo

Start at: 2018-06-05 19:30:38
End at: 2018-06-05 19:31:08
Local clock offset: -0.095 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-06 00:29:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 345.11 Mbit/s
95th percentile per-packet one-way delay: 112.530 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 210.52 Mbit/s
95th percentile per-packet one-way delay: 112.199 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 149.12 Mbit/s
95th percentile per-packet one-way delay: 112.816 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 111.30 Mbit/s
95th percentile per-packet one-way delay: 113.275 ms
Loss rate: 3.10%
```


Run 1: Report of Indigo — Data Link

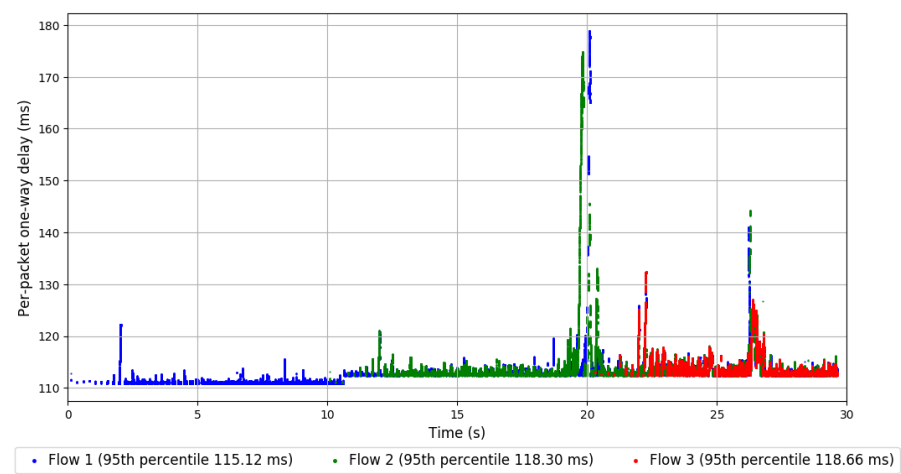
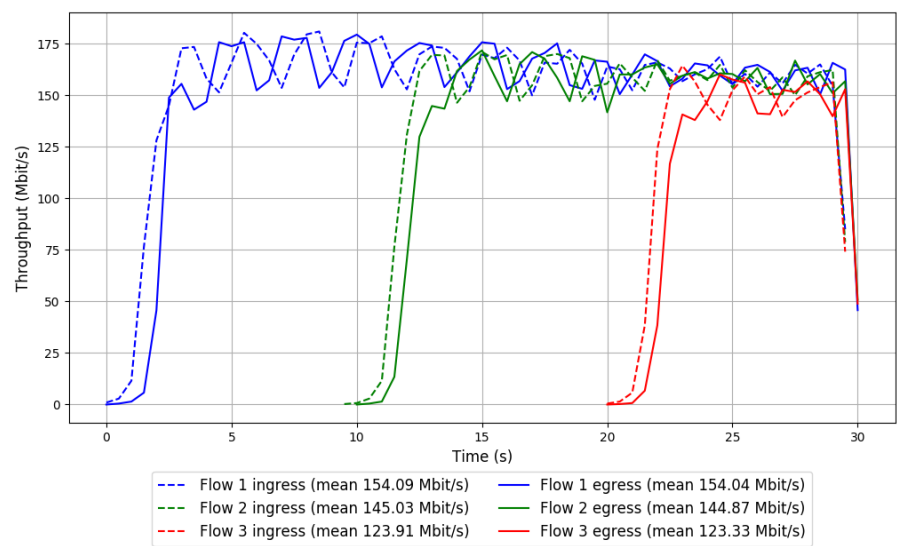


Run 2: Statistics of Indigo

Start at: 2018-06-05 19:54:56
End at: 2018-06-05 19:55:26
Local clock offset: 0.119 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 288.85 Mbit/s
95th percentile per-packet one-way delay: 116.816 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 154.04 Mbit/s
95th percentile per-packet one-way delay: 115.125 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 144.87 Mbit/s
95th percentile per-packet one-way delay: 118.300 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 123.33 Mbit/s
95th percentile per-packet one-way delay: 118.663 ms
Loss rate: 2.89%

Run 2: Report of Indigo — Data Link

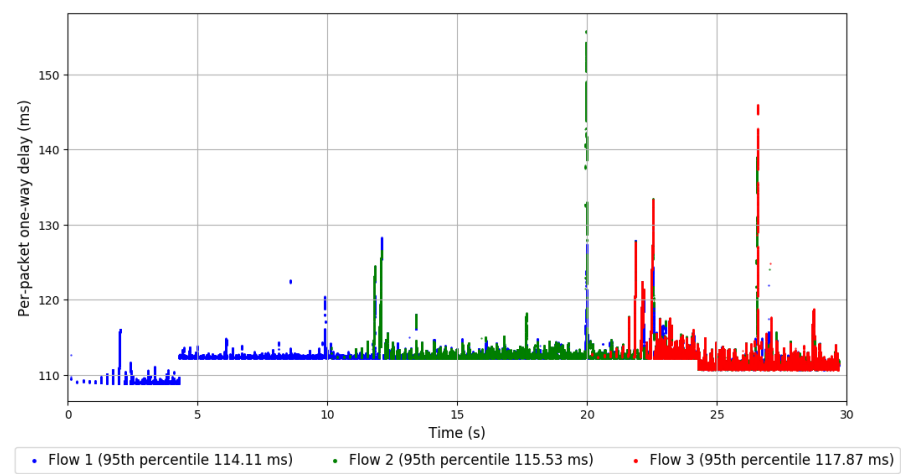
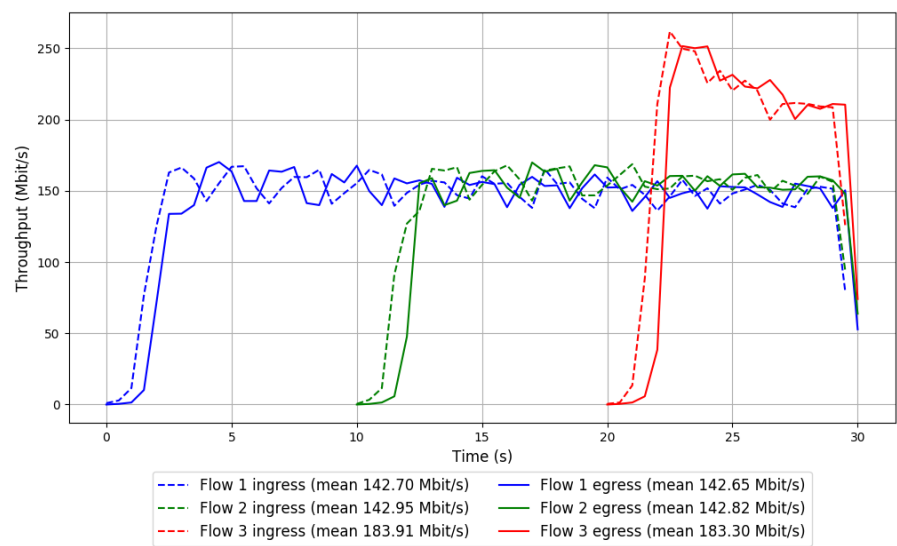


Run 3: Statistics of Indigo

Start at: 2018-06-05 20:18:52
End at: 2018-06-05 20:19:23
Local clock offset: -0.053 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.90 Mbit/s
95th percentile per-packet one-way delay: 115.062 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 142.65 Mbit/s
95th percentile per-packet one-way delay: 114.114 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 142.82 Mbit/s
95th percentile per-packet one-way delay: 115.528 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 183.30 Mbit/s
95th percentile per-packet one-way delay: 117.869 ms
Loss rate: 2.66%

Run 3: Report of Indigo — Data Link

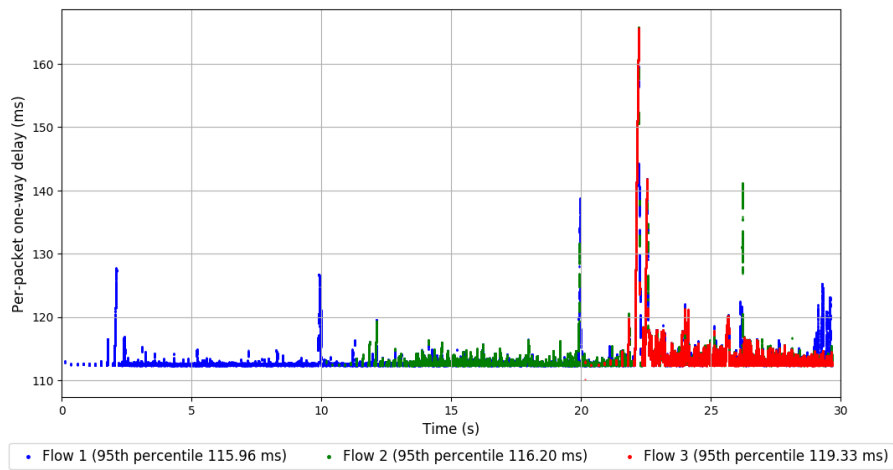
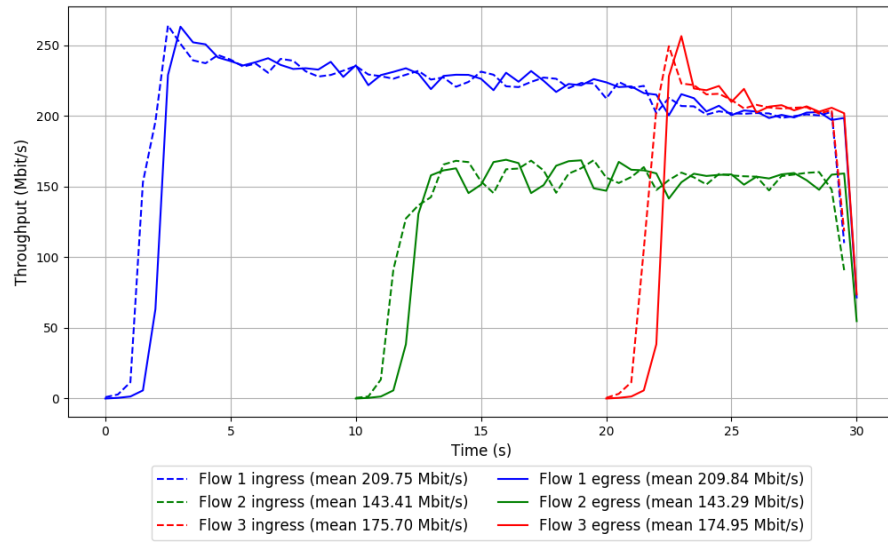


Run 4: Statistics of Indigo

Start at: 2018-06-05 20:43:05
End at: 2018-06-05 20:43:35
Local clock offset: -0.013 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 360.68 Mbit/s
95th percentile per-packet one-way delay: 116.576 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 209.84 Mbit/s
95th percentile per-packet one-way delay: 115.959 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 143.29 Mbit/s
95th percentile per-packet one-way delay: 116.204 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 174.95 Mbit/s
95th percentile per-packet one-way delay: 119.329 ms
Loss rate: 2.69%

Run 4: Report of Indigo — Data Link

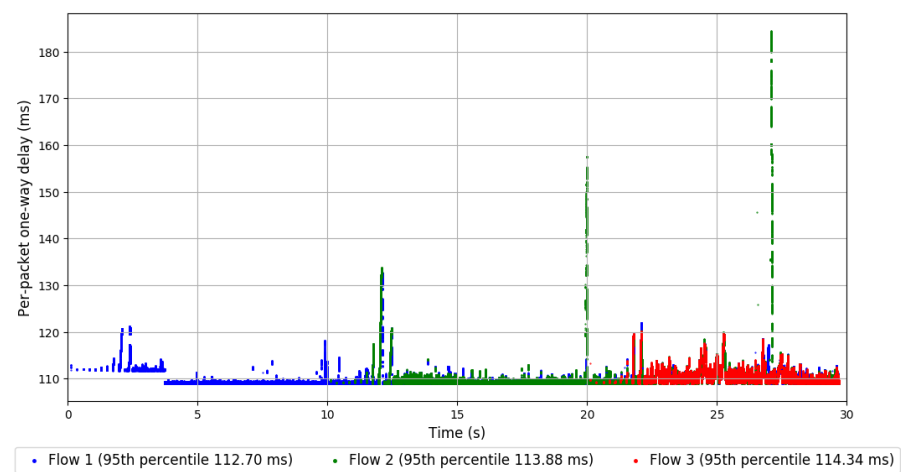
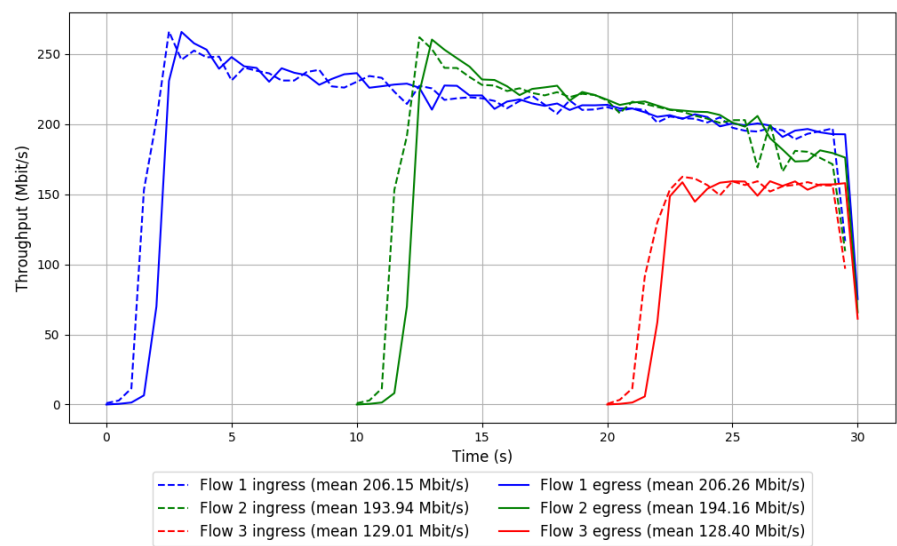


Run 5: Statistics of Indigo

Start at: 2018-06-05 21:06:53
End at: 2018-06-05 21:07:23
Local clock offset: 0.123 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.28 Mbit/s
95th percentile per-packet one-way delay: 113.375 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 206.26 Mbit/s
95th percentile per-packet one-way delay: 112.698 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 194.16 Mbit/s
95th percentile per-packet one-way delay: 113.877 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 128.40 Mbit/s
95th percentile per-packet one-way delay: 114.337 ms
Loss rate: 2.72%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-05 21:31:15

End at: 2018-06-05 21:31:45

Local clock offset: -0.006 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2018-06-06 00:29:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.61 Mbit/s

95th percentile per-packet one-way delay: 113.849 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 145.81 Mbit/s

95th percentile per-packet one-way delay: 113.256 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 144.38 Mbit/s

95th percentile per-packet one-way delay: 113.774 ms

Loss rate: 1.24%

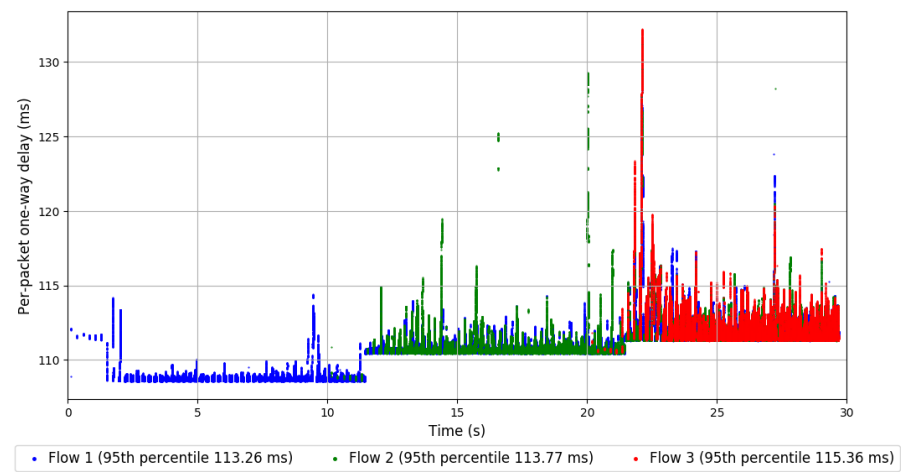
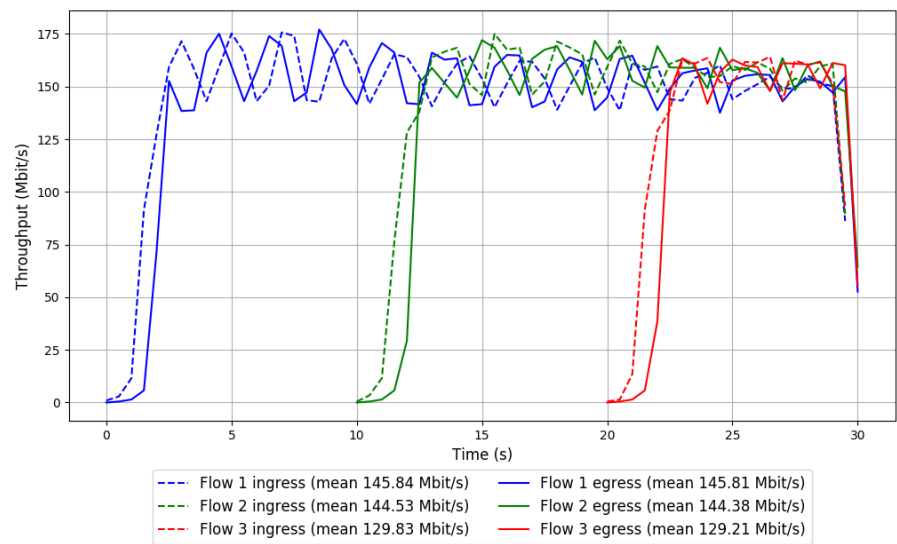
-- Flow 3:

Average throughput: 129.21 Mbit/s

95th percentile per-packet one-way delay: 115.362 ms

Loss rate: 2.78%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-05 21:55:07

End at: 2018-06-05 21:55:37

Local clock offset: -0.265 ms

Remote clock offset: 0.305 ms

Below is generated by plot.py at 2018-06-06 00:29:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.87 Mbit/s

95th percentile per-packet one-way delay: 114.052 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 153.43 Mbit/s

95th percentile per-packet one-way delay: 113.153 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 207.13 Mbit/s

95th percentile per-packet one-way delay: 114.539 ms

Loss rate: 1.17%

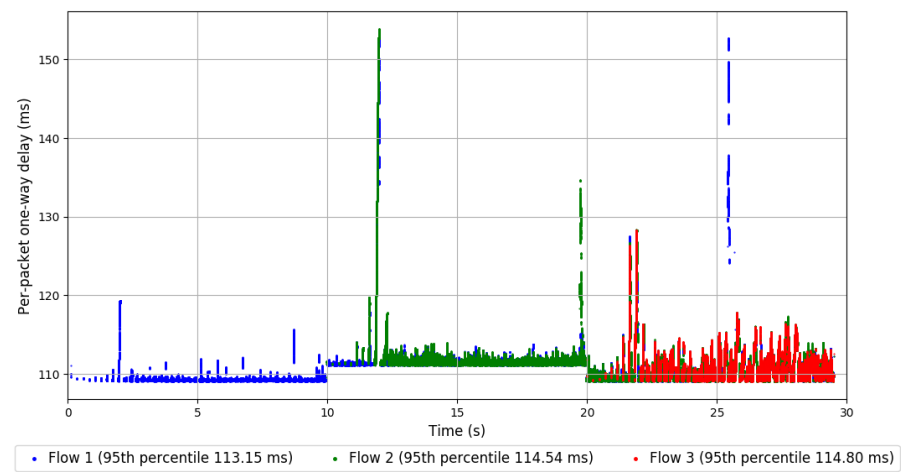
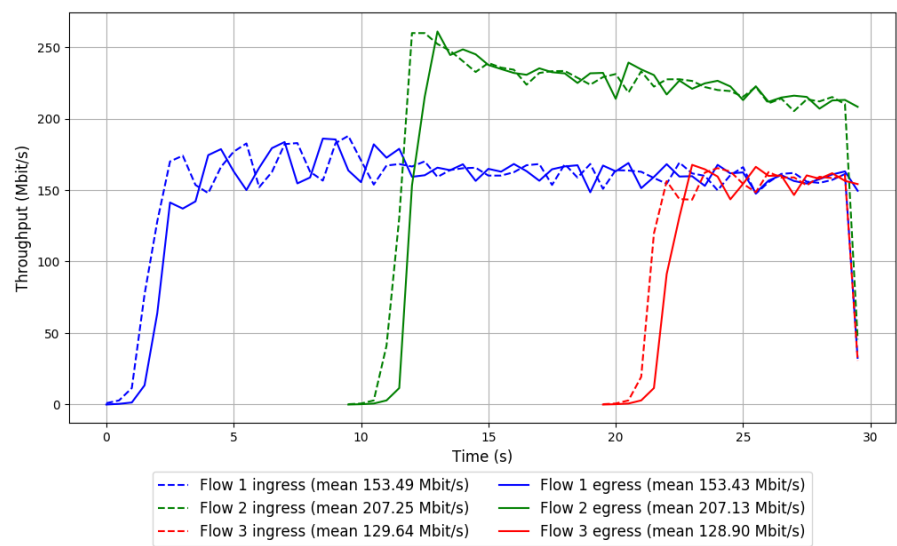
-- Flow 3:

Average throughput: 128.90 Mbit/s

95th percentile per-packet one-way delay: 114.796 ms

Loss rate: 2.81%

Run 7: Report of Indigo — Data Link

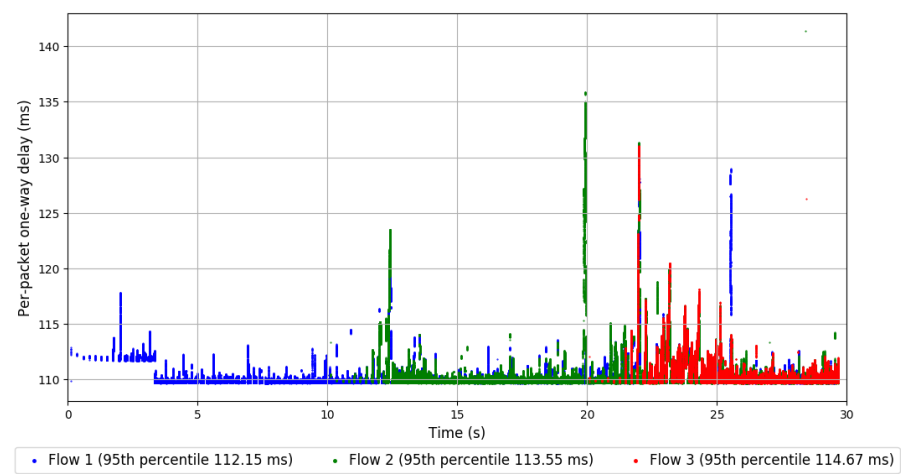
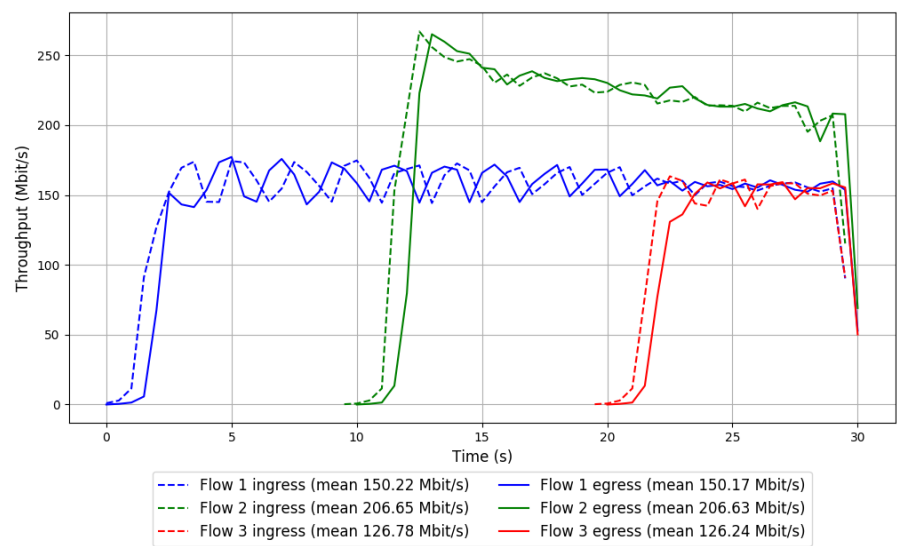


Run 8: Statistics of Indigo

Start at: 2018-06-05 22:18:53
End at: 2018-06-05 22:19:23
Local clock offset: -0.015 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.83 Mbit/s
95th percentile per-packet one-way delay: 113.032 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 150.17 Mbit/s
95th percentile per-packet one-way delay: 112.151 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 206.63 Mbit/s
95th percentile per-packet one-way delay: 113.552 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 126.24 Mbit/s
95th percentile per-packet one-way delay: 114.674 ms
Loss rate: 2.68%

Run 8: Report of Indigo — Data Link

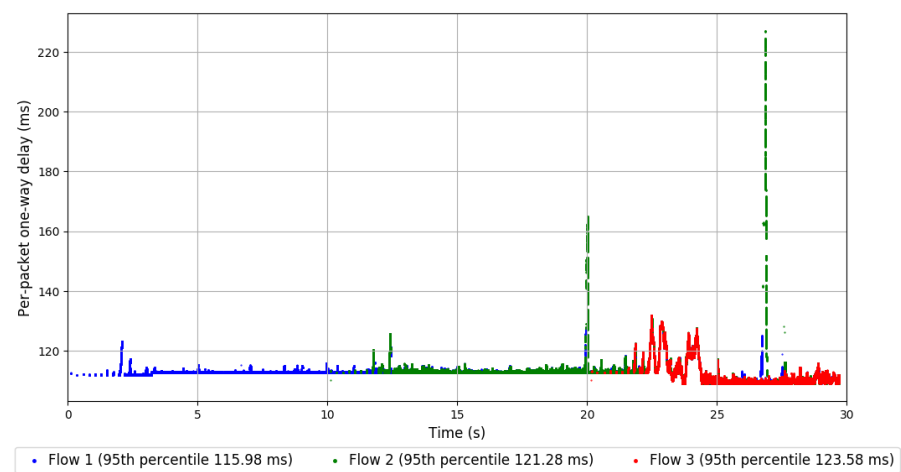
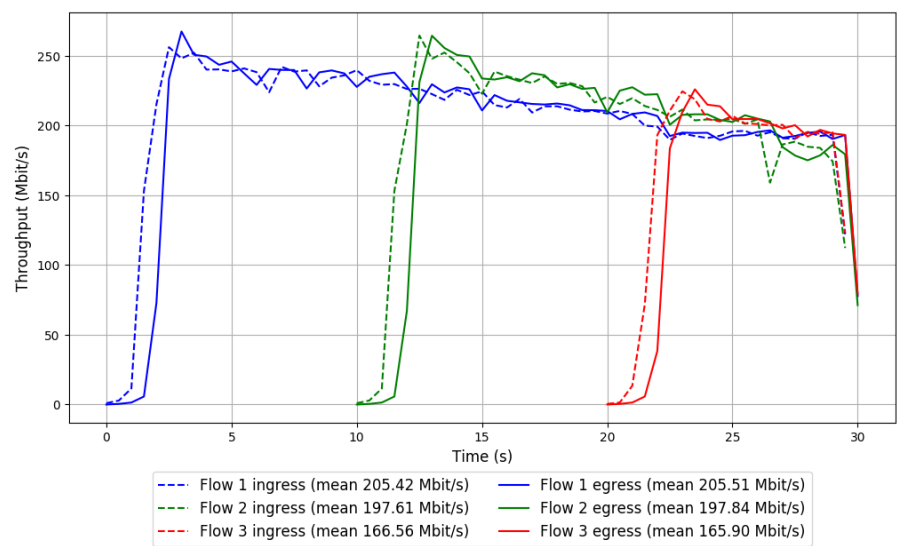


Run 9: Statistics of Indigo

Start at: 2018-06-05 22:42:34
End at: 2018-06-05 22:43:04
Local clock offset: -0.238 ms
Remote clock offset: -0.632 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.99 Mbit/s
95th percentile per-packet one-way delay: 119.514 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 205.51 Mbit/s
95th percentile per-packet one-way delay: 115.976 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 197.84 Mbit/s
95th percentile per-packet one-way delay: 121.281 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 165.90 Mbit/s
95th percentile per-packet one-way delay: 123.578 ms
Loss rate: 2.68%

Run 9: Report of Indigo — Data Link

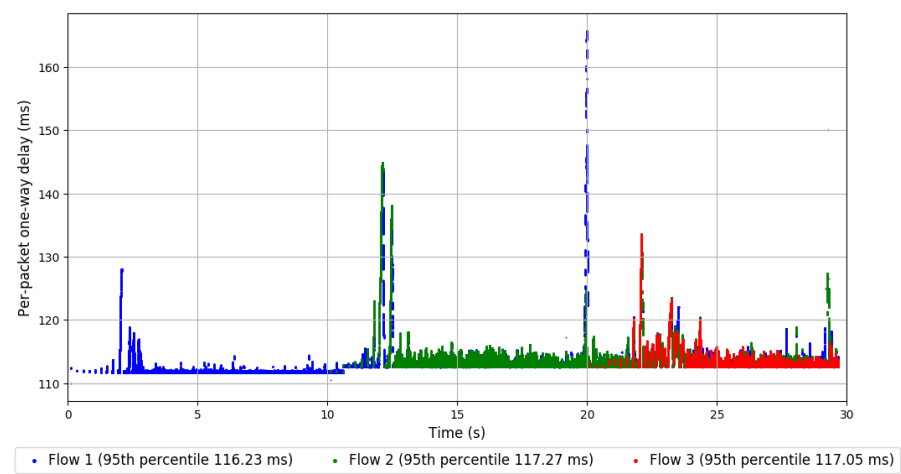
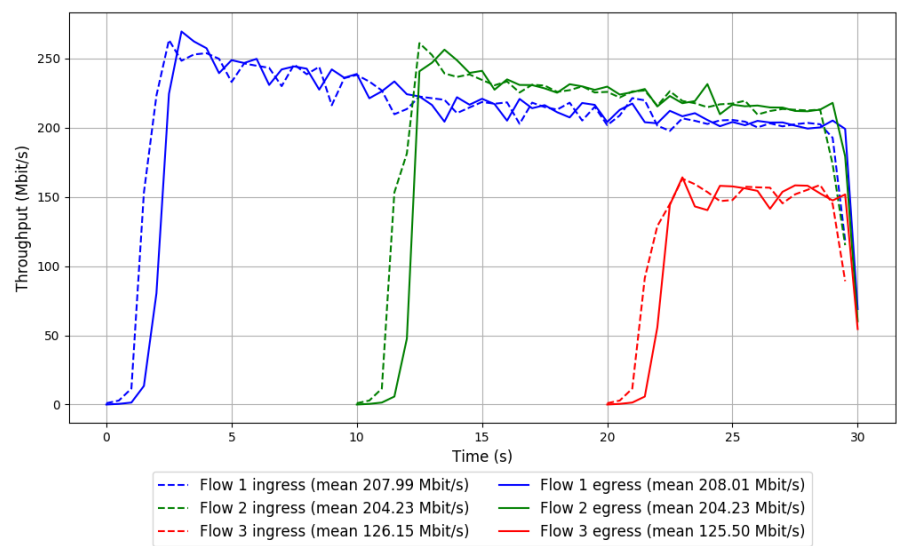


Run 10: Statistics of Indigo

Start at: 2018-06-05 23:07:06
End at: 2018-06-05 23:07:36
Local clock offset: -0.284 ms
Remote clock offset: -0.688 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 383.64 Mbit/s
95th percentile per-packet one-way delay: 116.752 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 208.01 Mbit/s
95th percentile per-packet one-way delay: 116.234 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 204.23 Mbit/s
95th percentile per-packet one-way delay: 117.272 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 125.50 Mbit/s
95th percentile per-packet one-way delay: 117.054 ms
Loss rate: 2.76%

Run 10: Report of Indigo — Data Link

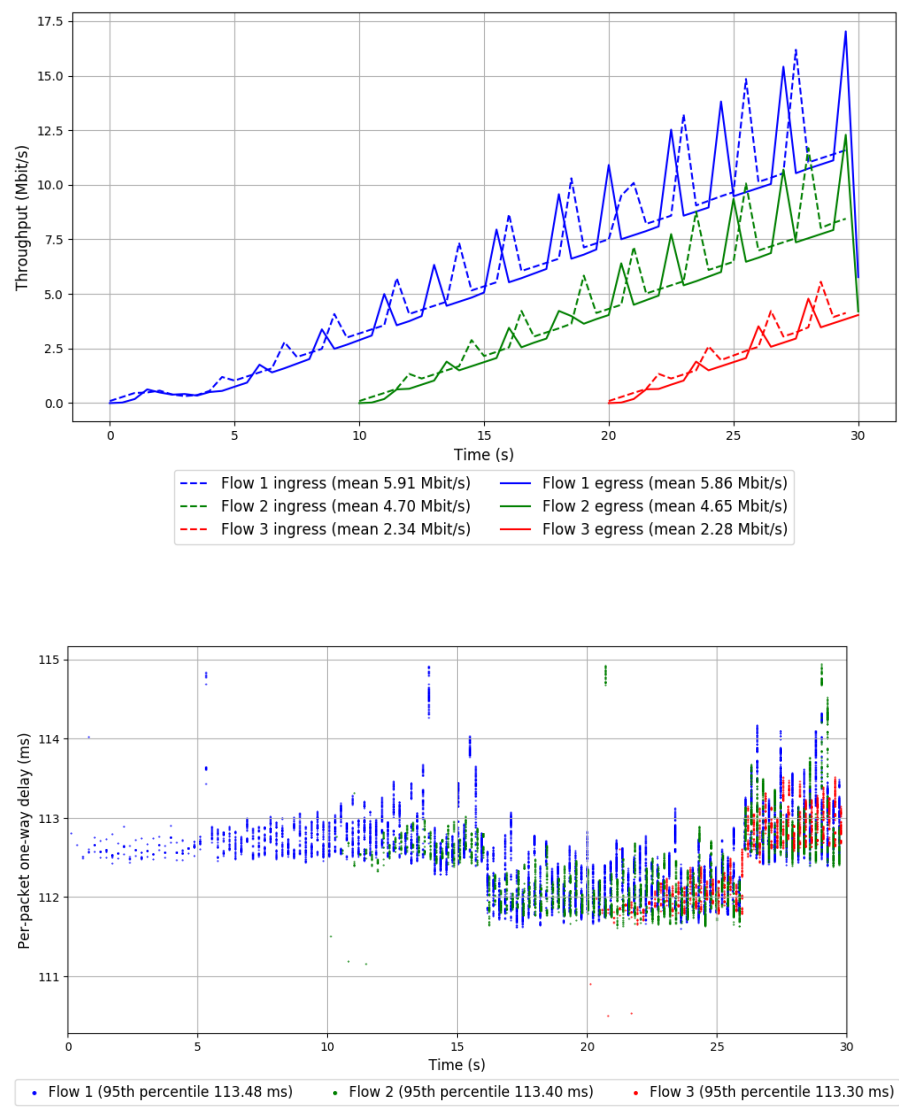


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-05 19:20:51
End at: 2018-06-05 19:21:21
Local clock offset: -0.033 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-06-06 00:29:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 113.424 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 113.480 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 113.399 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 113.295 ms
Loss rate: 4.53%
```

Run 1: Report of LEDBAT — Data Link

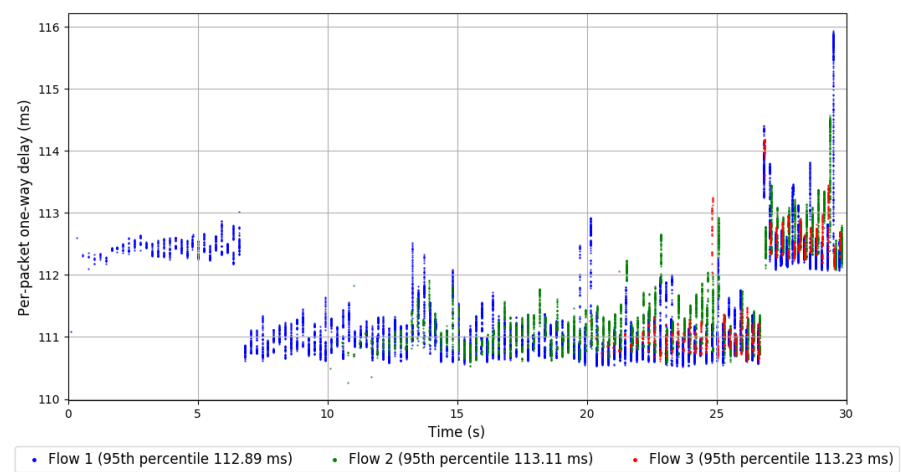
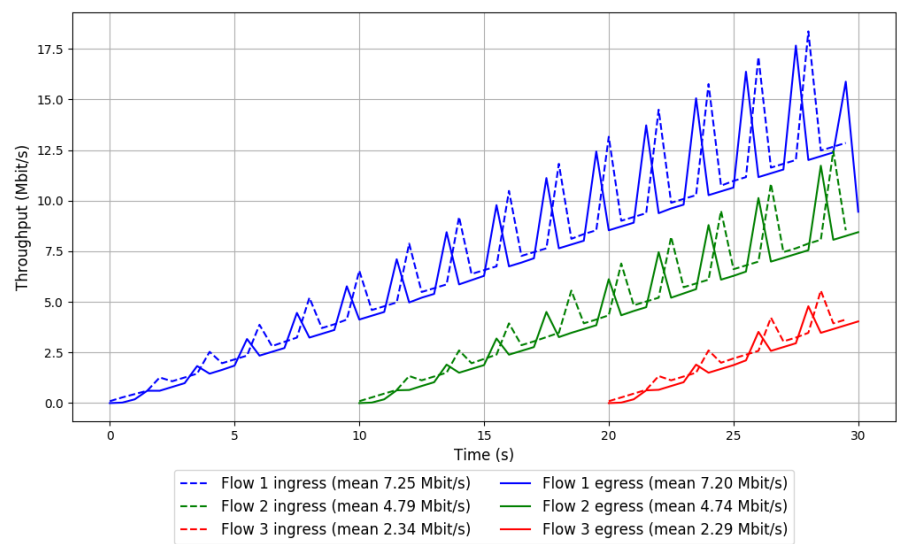


Run 2: Statistics of LEDBAT

Start at: 2018-06-05 19:45:00
End at: 2018-06-05 19:45:30
Local clock offset: -0.173 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-06 00:29:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 113.063 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 112.895 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 113.110 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 113.234 ms
Loss rate: 4.52%

Run 2: Report of LEDBAT — Data Link

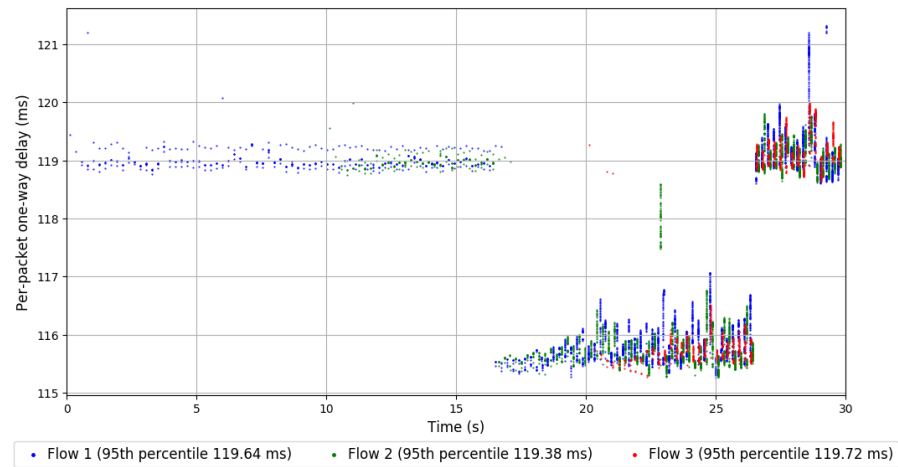
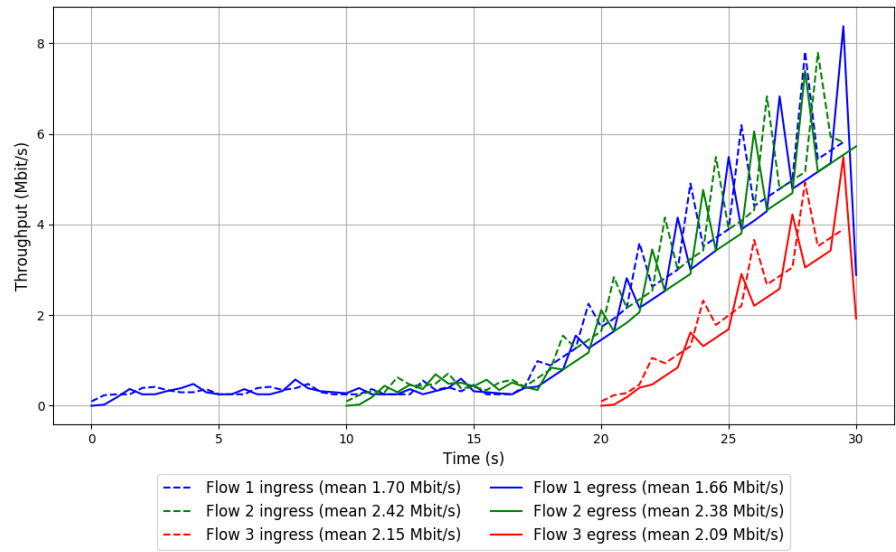


Run 3: Statistics of LEDBAT

Start at: 2018-06-05 20:09:10
End at: 2018-06-05 20:09:40
Local clock offset: 6.371 ms
Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-06 00:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 119.552 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 119.640 ms
Loss rate: 2.90%
-- Flow 2:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 119.380 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 119.723 ms
Loss rate: 4.68%

Run 3: Report of LEDBAT — Data Link

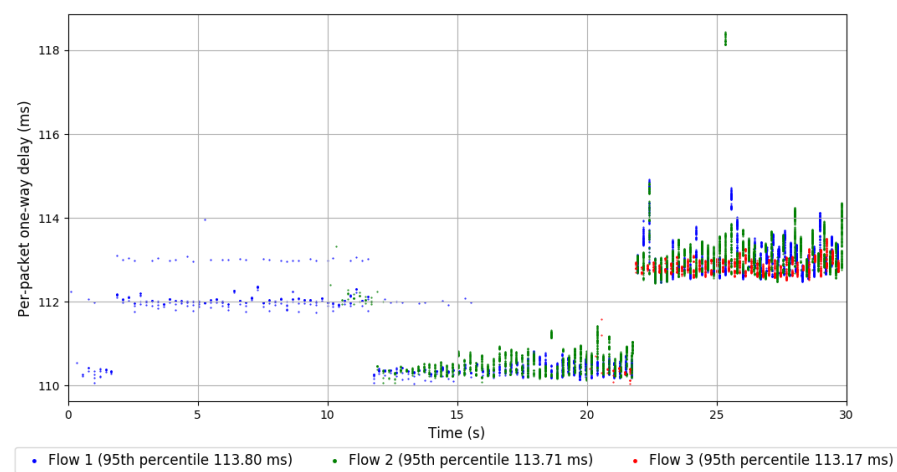
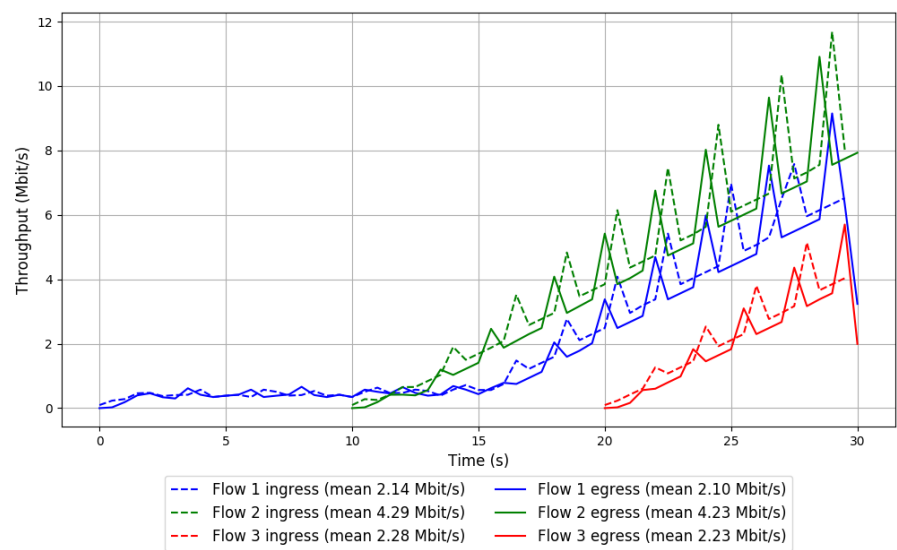


Run 4: Statistics of LEDBAT

Start at: 2018-06-05 20:33:05
End at: 2018-06-05 20:33:35
Local clock offset: 0.142 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-06 00:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 113.670 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 113.798 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 113.711 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 113.167 ms
Loss rate: 4.57%

Run 4: Report of LEDBAT — Data Link

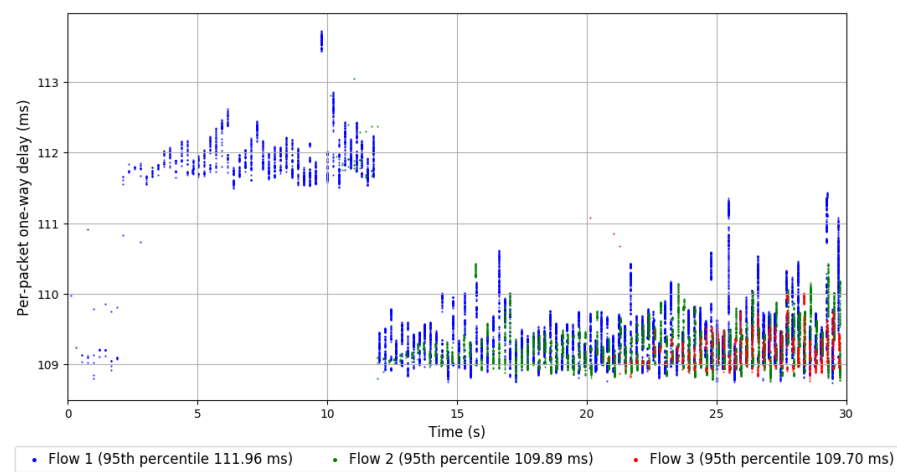
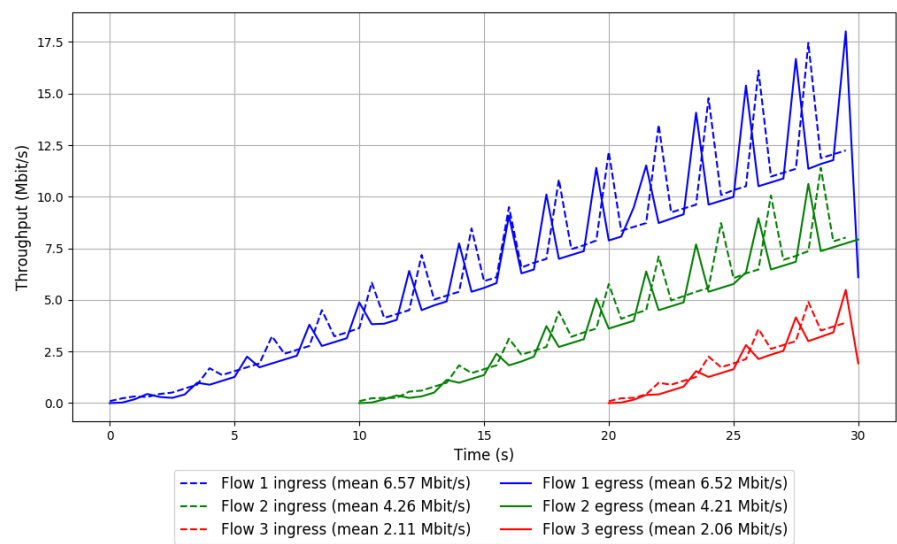


Run 5: Statistics of LEDBAT

Start at: 2018-06-05 20:57:25
End at: 2018-06-05 20:57:55
Local clock offset: -0.15 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-06 00:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.96 Mbit/s
95th percentile per-packet one-way delay: 111.822 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 111.960 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 109.893 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 109.696 ms
Loss rate: 4.77%

Run 5: Report of LEDBAT — Data Link

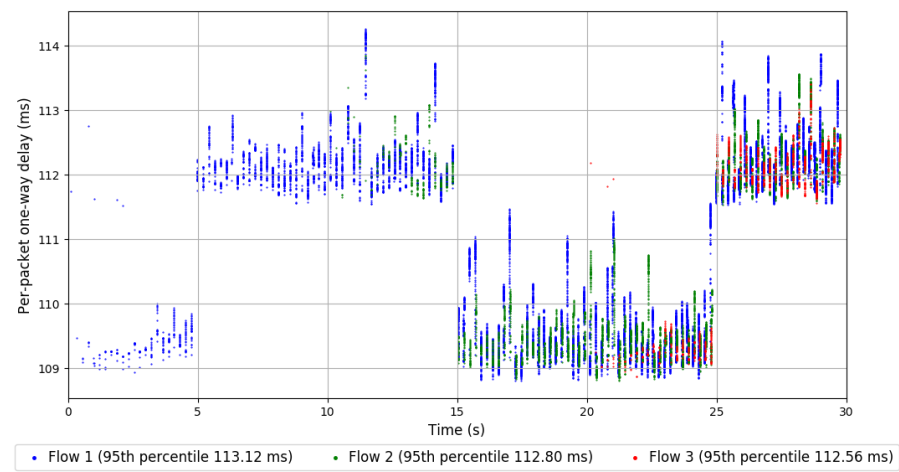
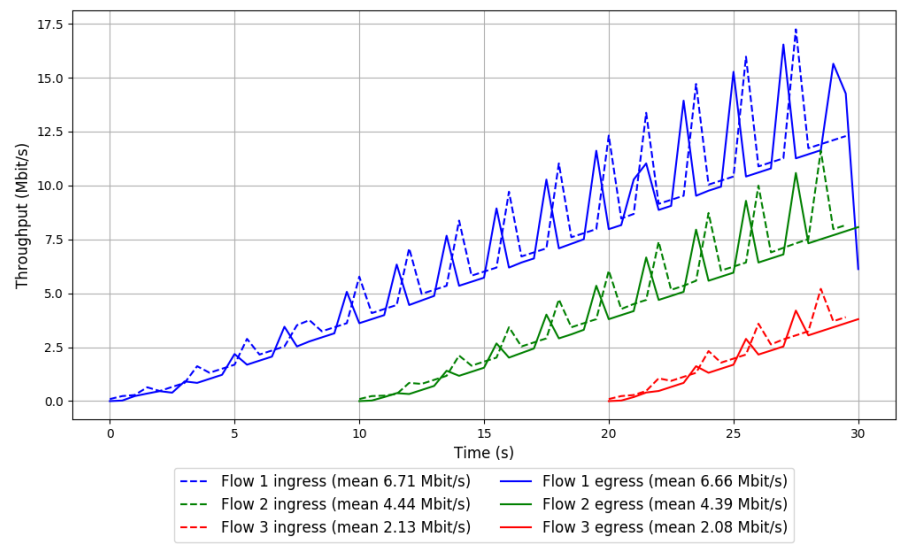


Run 6: Statistics of LEDBAT

Start at: 2018-06-05 21:21:22
End at: 2018-06-05 21:21:52
Local clock offset: -0.126 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-06 00:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 113.018 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 113.117 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 112.803 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 112.563 ms
Loss rate: 4.70%

Run 6: Report of LEDBAT — Data Link

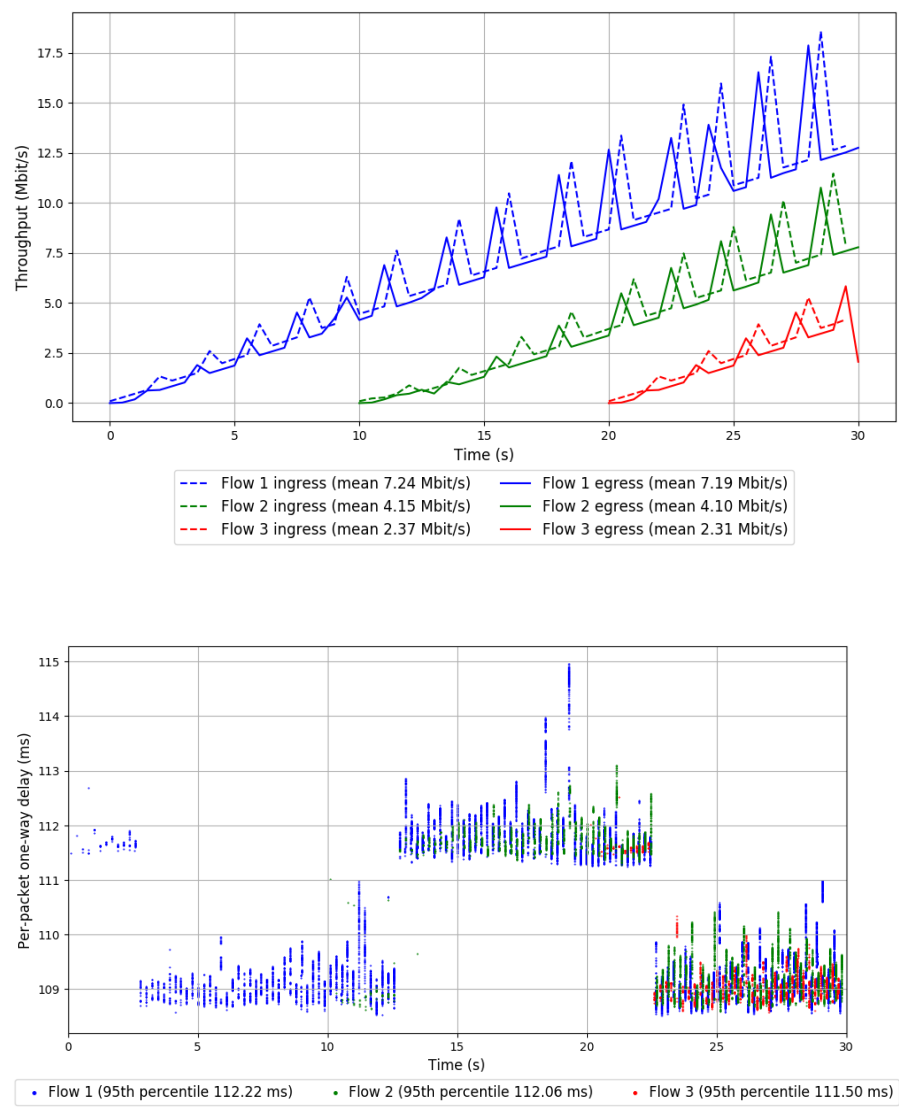


Run 7: Statistics of LEDBAT

Start at: 2018-06-05 21:45:24
End at: 2018-06-05 21:45:54
Local clock offset: -0.117 ms
Remote clock offset: 0.288 ms

Below is generated by plot.py at 2018-06-06 00:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.64 Mbit/s
95th percentile per-packet one-way delay: 112.174 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 112.218 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 112.065 ms
Loss rate: 2.40%
-- Flow 3:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 111.501 ms
Loss rate: 4.56%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-05 22:09:22

End at: 2018-06-05 22:09:52

Local clock offset: -0.08 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2018-06-06 00:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.43 Mbit/s

95th percentile per-packet one-way delay: 110.691 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 110.768 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 110.357 ms

Loss rate: 2.46%

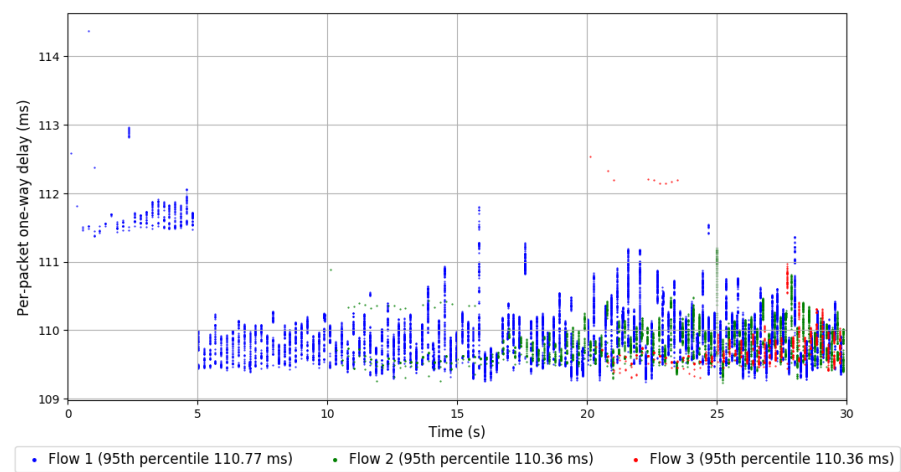
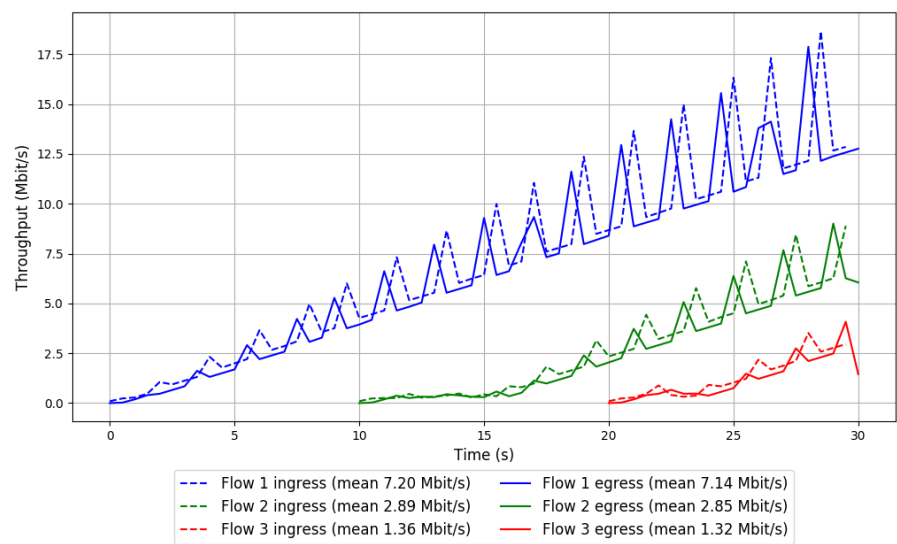
-- Flow 3:

Average throughput: 1.32 Mbit/s

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

Loss rate: 5.61%

Run 8: Report of LEDBAT — Data Link

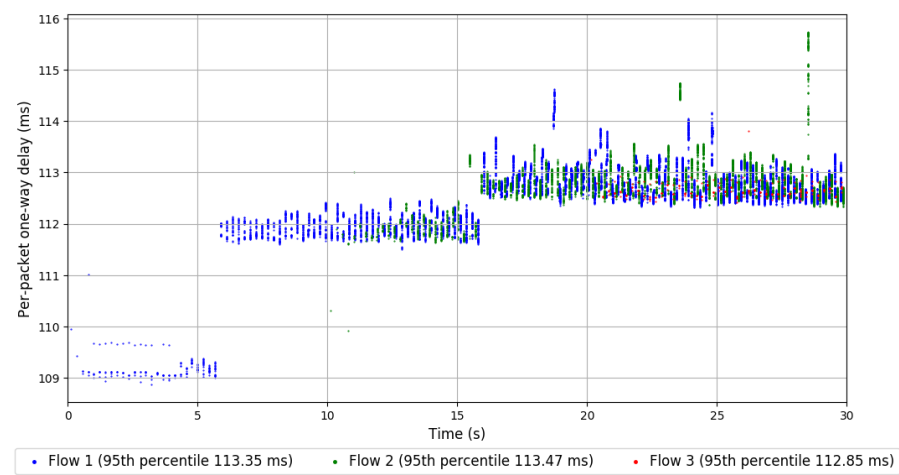
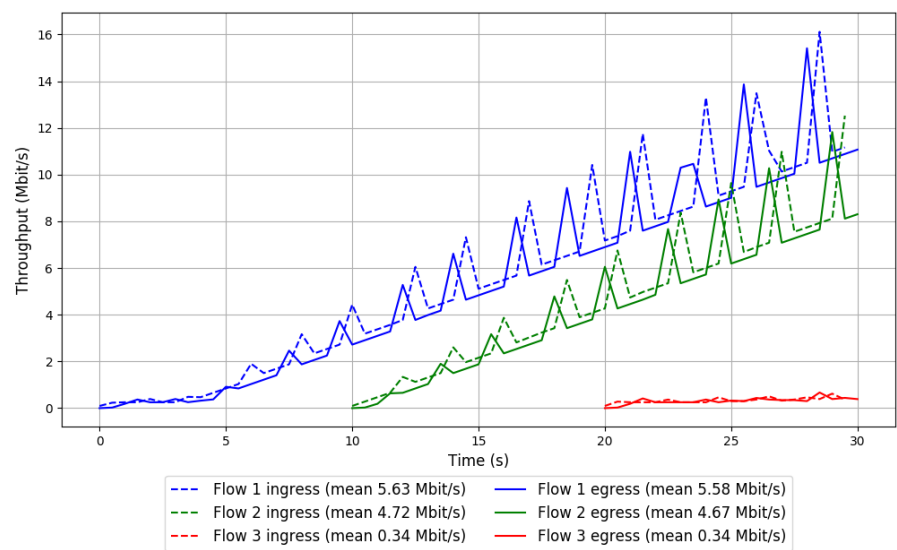


Run 9: Statistics of LEDBAT

Start at: 2018-06-05 22:33:01
End at: 2018-06-05 22:33:31
Local clock offset: -0.227 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2018-06-06 00:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 113.397 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 5.58 Mbit/s
95th percentile per-packet one-way delay: 113.354 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 113.467 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 112.850 ms
Loss rate: 2.37%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-05 22:56:49

End at: 2018-06-05 22:57:19

Local clock offset: -0.125 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-06-06 00:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 113.744 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 113.832 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 113.427 ms

Loss rate: 2.27%

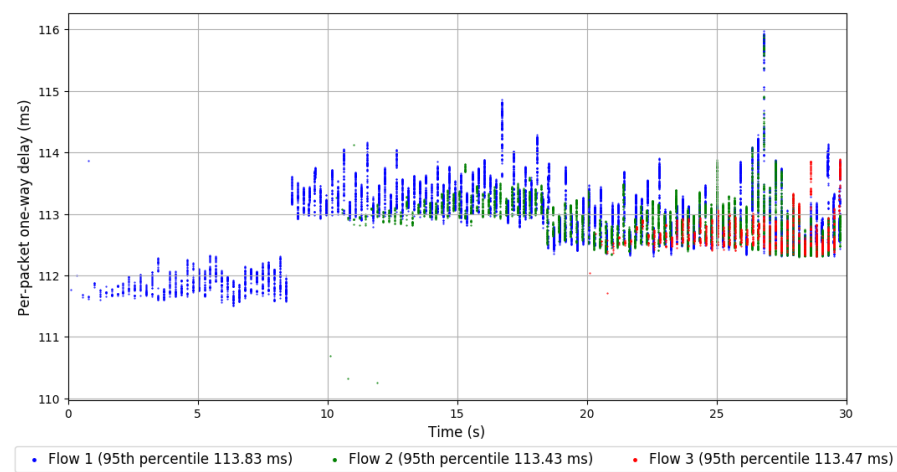
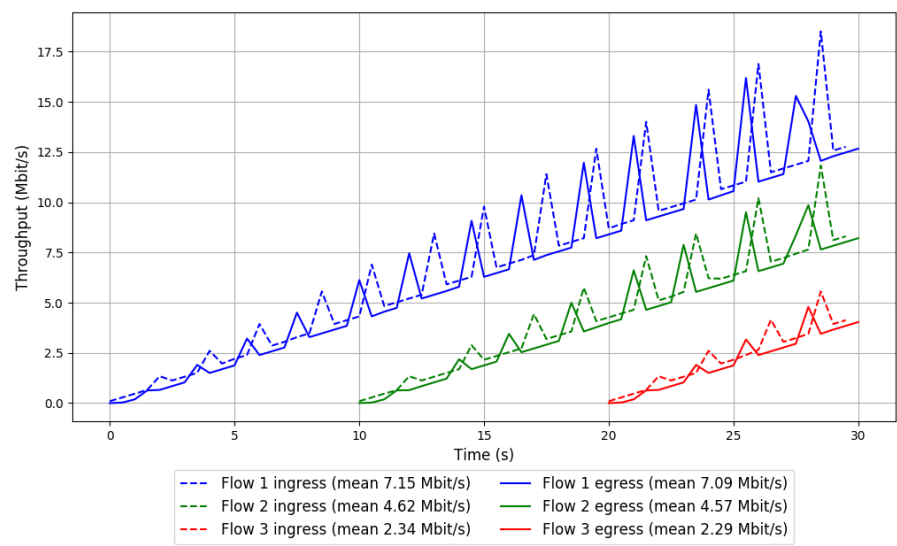
-- Flow 3:

Average throughput: 2.29 Mbit/s

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

Loss rate: 4.53%

Run 10: Report of LEDBAT — Data Link

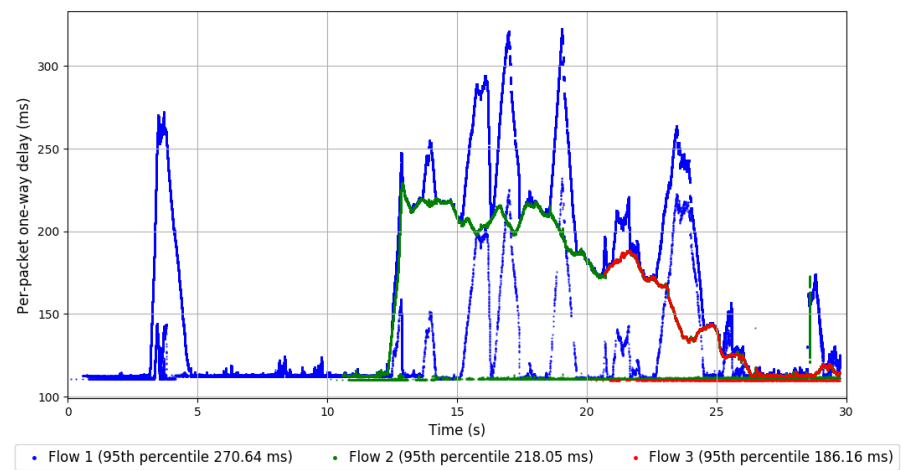
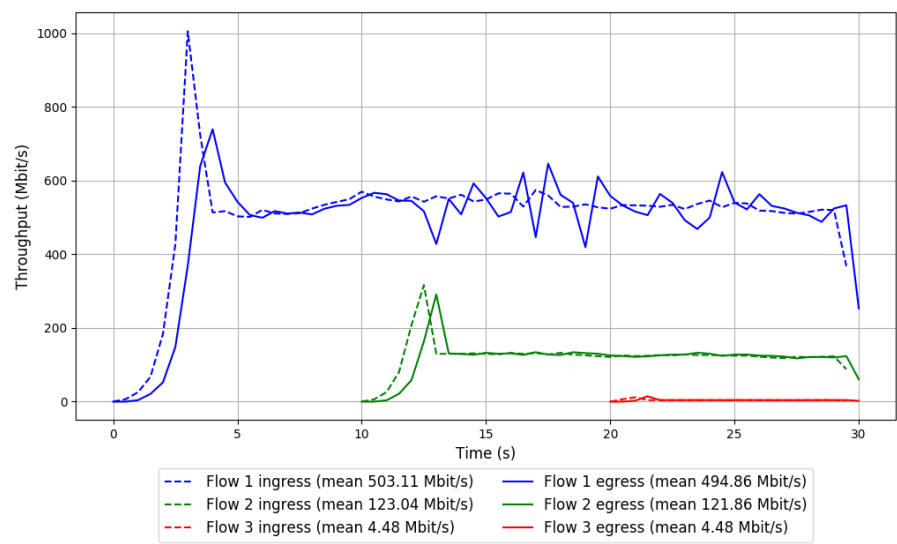


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-05 19:17:53
End at: 2018-06-05 19:18:23
Local clock offset: -0.101 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-06 00:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 577.00 Mbit/s
95th percentile per-packet one-way delay: 264.274 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 494.86 Mbit/s
95th percentile per-packet one-way delay: 270.639 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 121.86 Mbit/s
95th percentile per-packet one-way delay: 218.051 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 186.161 ms
Loss rate: 2.28%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-05 19:42:05

End at: 2018-06-05 19:42:35

Local clock offset: -0.302 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-06 00:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 577.21 Mbit/s

95th percentile per-packet one-way delay: 221.080 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 535.08 Mbit/s

95th percentile per-packet one-way delay: 221.137 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 220.675 ms

Loss rate: 2.02%

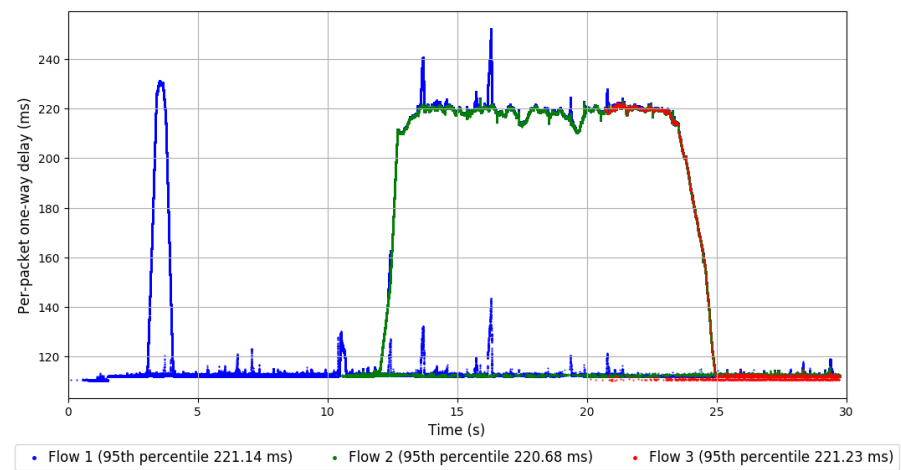
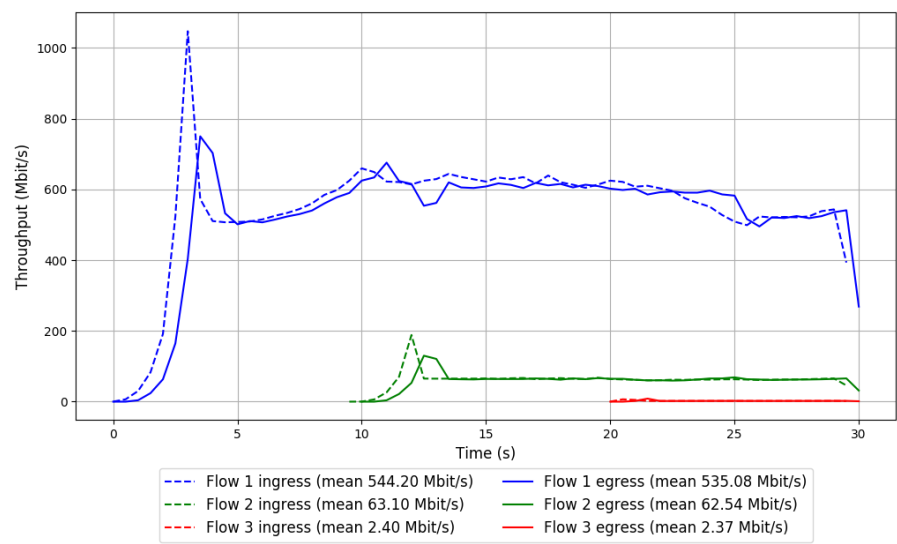
-- Flow 3:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 221.233 ms

Loss rate: 3.41%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-05 20:06:17

End at: 2018-06-05 20:06:47

Local clock offset: -0.156 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-06 00:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 511.31 Mbit/s

95th percentile per-packet one-way delay: 220.850 ms

Loss rate: 2.63%

-- Flow 1:

Average throughput: 406.14 Mbit/s

95th percentile per-packet one-way delay: 221.341 ms

Loss rate: 2.59%

-- Flow 2:

Average throughput: 128.60 Mbit/s

95th percentile per-packet one-way delay: 220.146 ms

Loss rate: 2.67%

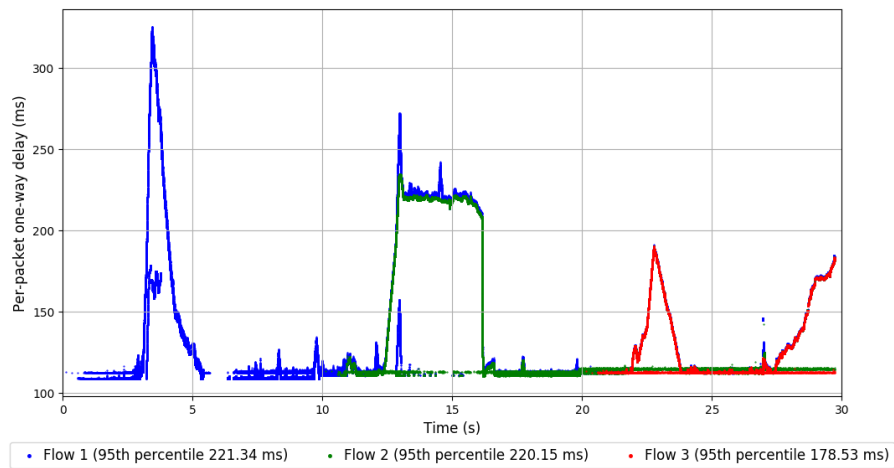
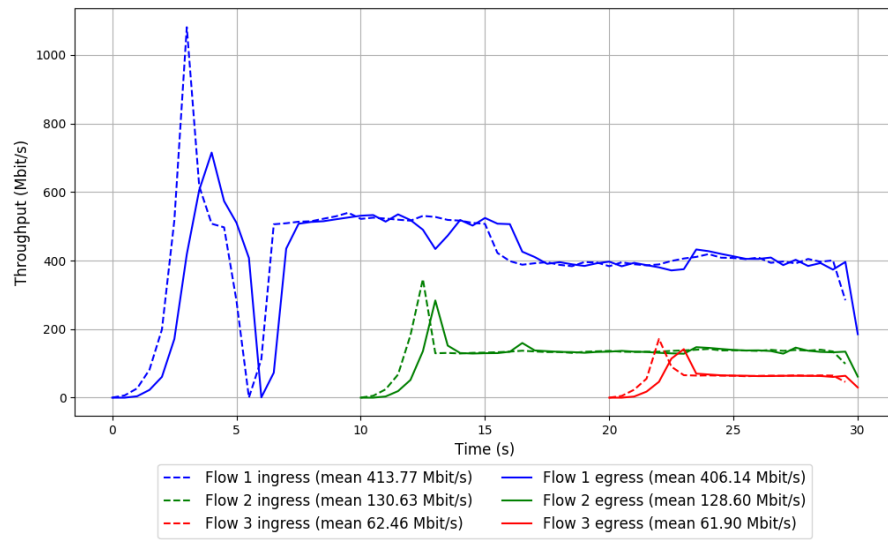
-- Flow 3:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 178.526 ms

Loss rate: 3.17%

Run 3: Report of PCC-Allegro — Data Link

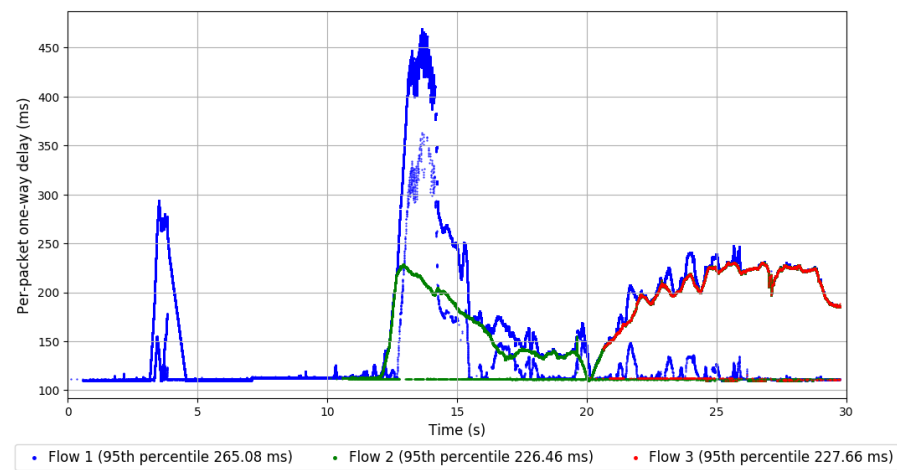
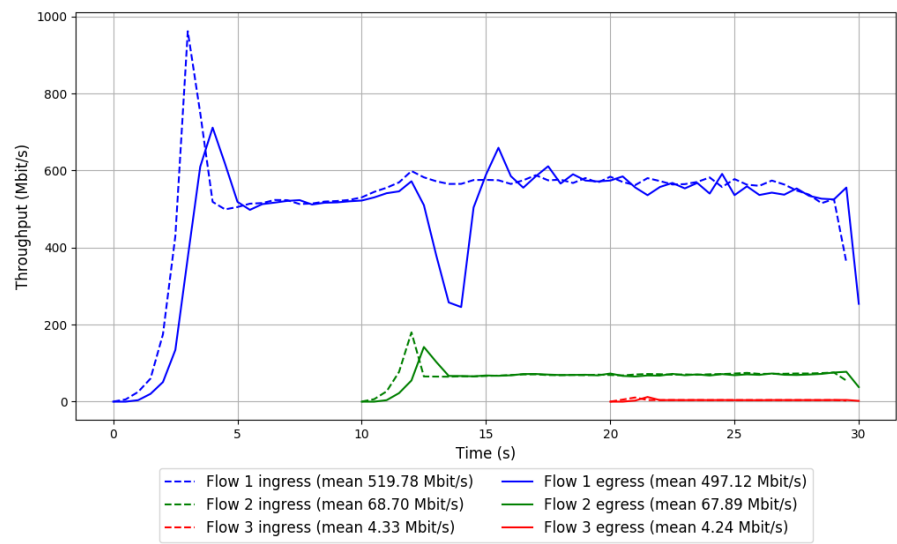


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-05 20:30:10
End at: 2018-06-05 20:30:40
Local clock offset: 0.041 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-06-06 00:29:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 543.37 Mbit/s
95th percentile per-packet one-way delay: 262.864 ms
Loss rate: 4.84%
-- Flow 1:
Average throughput: 497.12 Mbit/s
95th percentile per-packet one-way delay: 265.081 ms
Loss rate: 5.07%
-- Flow 2:
Average throughput: 67.89 Mbit/s
95th percentile per-packet one-way delay: 226.460 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 227.663 ms
Loss rate: 4.12%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-05 20:54:26

End at: 2018-06-05 20:54:56

Local clock offset: -0.084 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-06-06 00:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 566.13 Mbit/s

95th percentile per-packet one-way delay: 215.088 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 478.25 Mbit/s

95th percentile per-packet one-way delay: 214.959 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 124.81 Mbit/s

95th percentile per-packet one-way delay: 215.558 ms

Loss rate: 2.79%

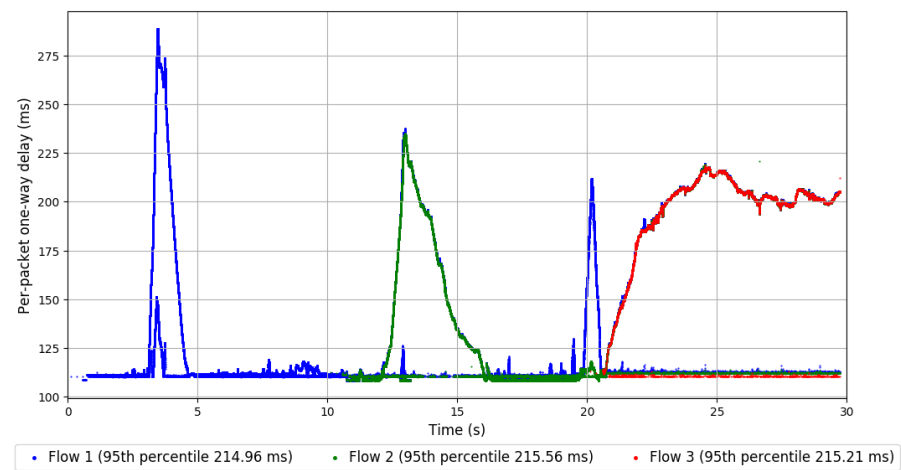
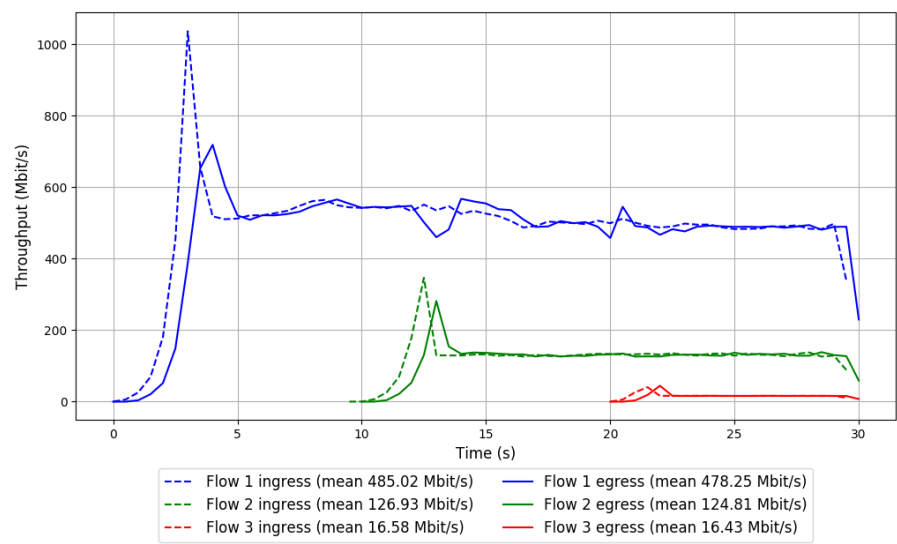
-- Flow 3:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 215.208 ms

Loss rate: 3.08%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-05 21:18:24

End at: 2018-06-05 21:18:54

Local clock offset: -0.217 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-06 00:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 524.56 Mbit/s

95th percentile per-packet one-way delay: 235.130 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 483.61 Mbit/s

95th percentile per-packet one-way delay: 235.153 ms

Loss rate: 2.46%

-- Flow 2:

Average throughput: 60.70 Mbit/s

95th percentile per-packet one-way delay: 234.879 ms

Loss rate: 1.82%

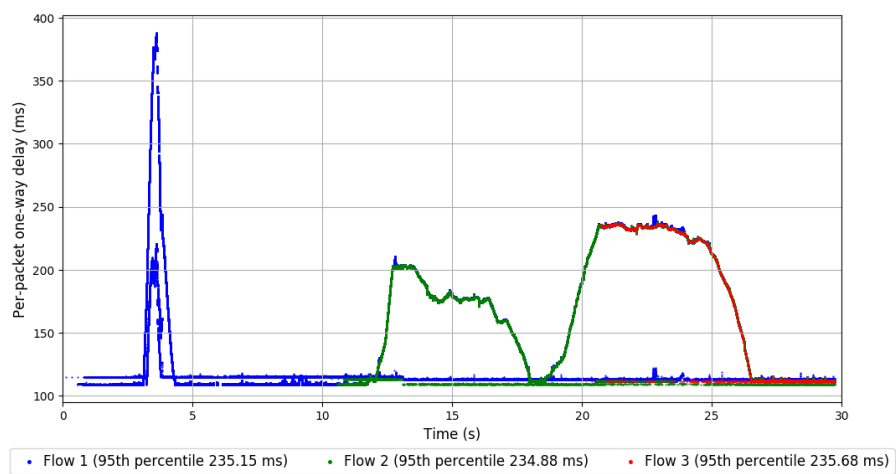
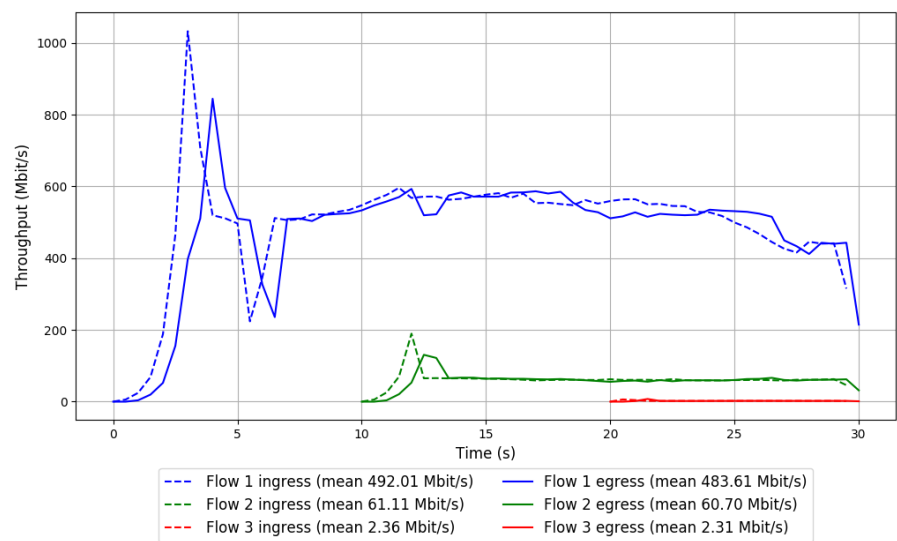
-- Flow 3:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 235.681 ms

Loss rate: 4.35%

Run 6: Report of PCC-Allegro — Data Link

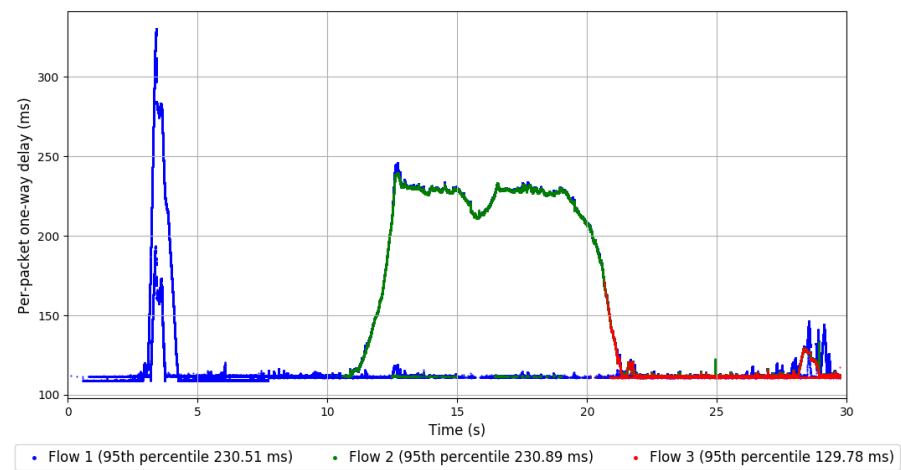
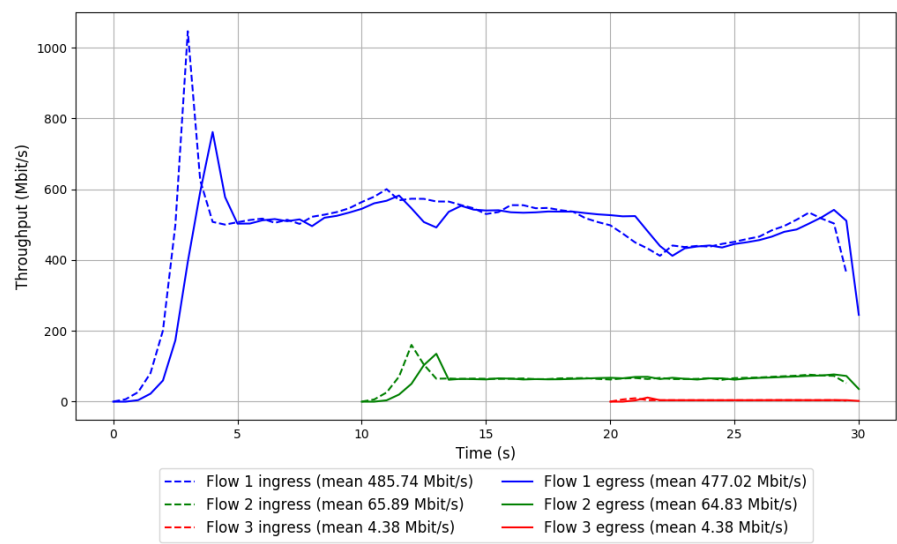


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-05 21:42:29
End at: 2018-06-05 21:42:59
Local clock offset: -0.256 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-06 00:32:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 521.27 Mbit/s
95th percentile per-packet one-way delay: 230.547 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 477.02 Mbit/s
95th percentile per-packet one-way delay: 230.510 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 64.83 Mbit/s
95th percentile per-packet one-way delay: 230.891 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 129.783 ms
Loss rate: 2.25%

Run 7: Report of PCC-Allegro — Data Link

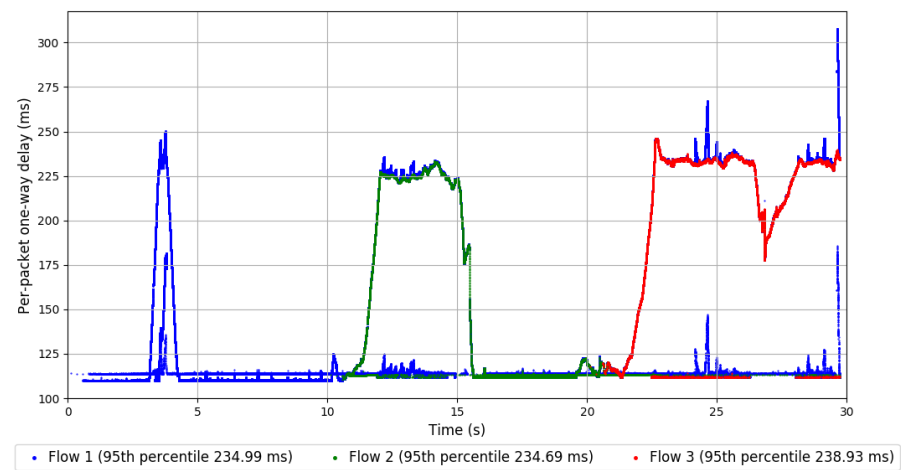
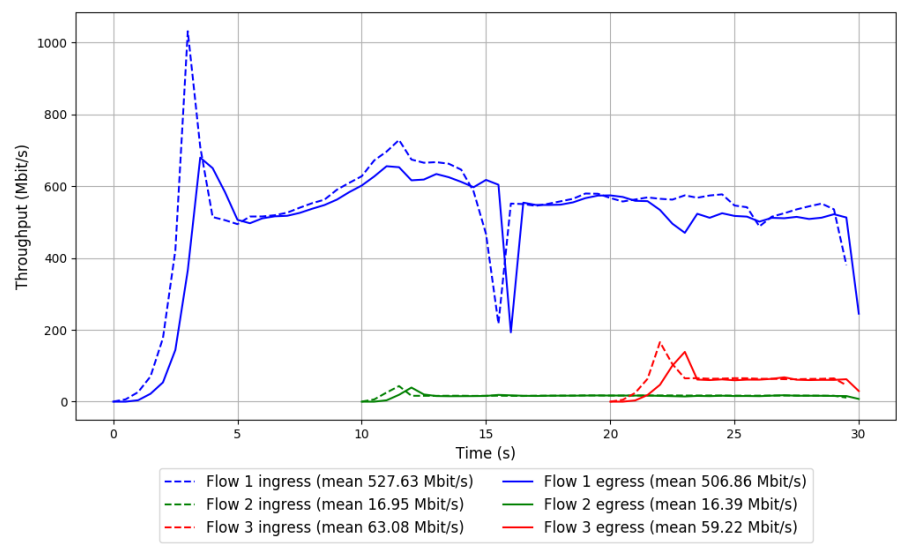


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-05 22:06:25
End at: 2018-06-05 22:06:55
Local clock offset: -0.029 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-06-06 00:33:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 536.91 Mbit/s
95th percentile per-packet one-way delay: 235.137 ms
Loss rate: 4.79%
-- Flow 1:
Average throughput: 506.86 Mbit/s
95th percentile per-packet one-way delay: 234.986 ms
Loss rate: 4.66%
-- Flow 2:
Average throughput: 16.39 Mbit/s
95th percentile per-packet one-way delay: 234.685 ms
Loss rate: 4.42%
-- Flow 3:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 238.932 ms
Loss rate: 8.30%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-05 22:30:09

End at: 2018-06-05 22:30:40

Local clock offset: -0.158 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2018-06-06 00:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.64 Mbit/s

95th percentile per-packet one-way delay: 232.256 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 490.54 Mbit/s

95th percentile per-packet one-way delay: 232.288 ms

Loss rate: 2.38%

-- Flow 2:

Average throughput: 62.87 Mbit/s

95th percentile per-packet one-way delay: 232.396 ms

Loss rate: 2.33%

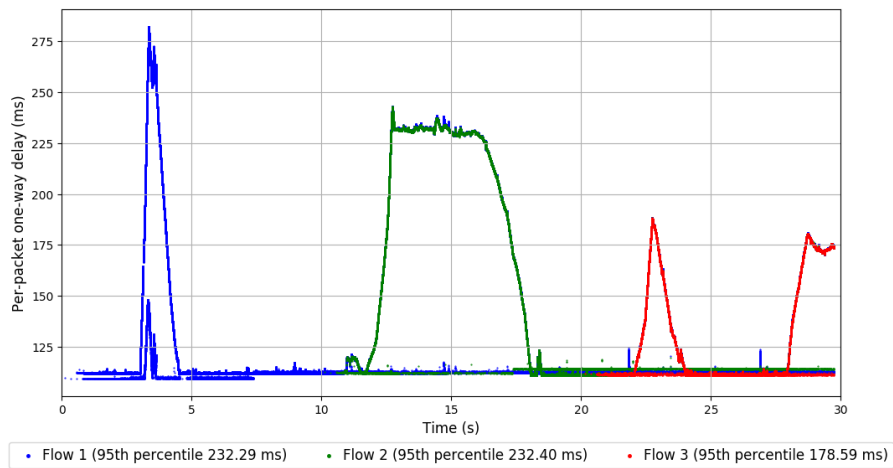
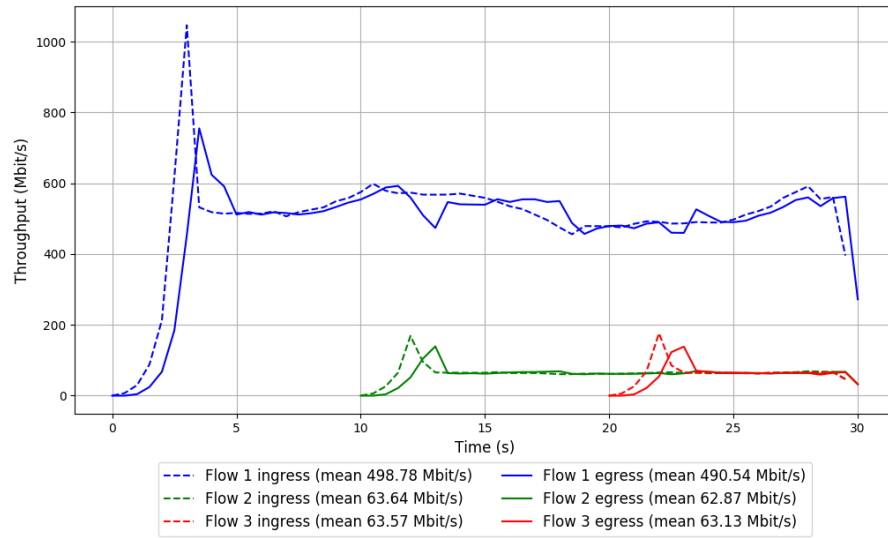
-- Flow 3:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 178.595 ms

Loss rate: 2.95%

Run 9: Report of PCC-Allegro — Data Link

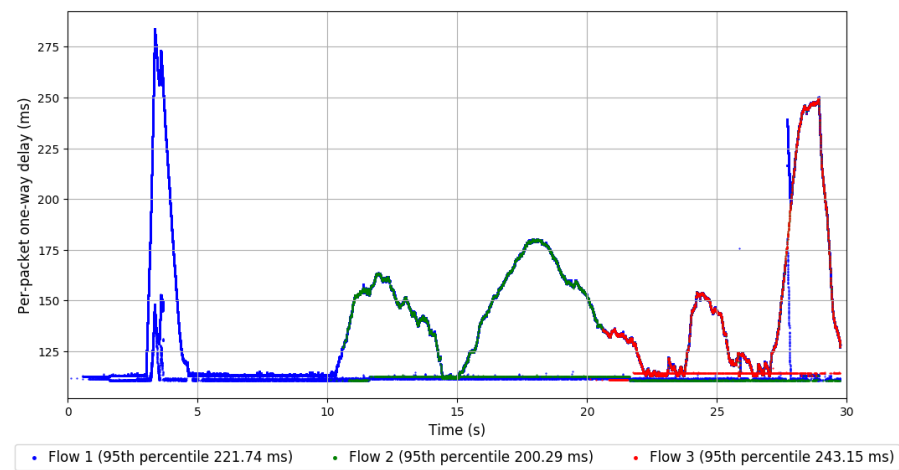
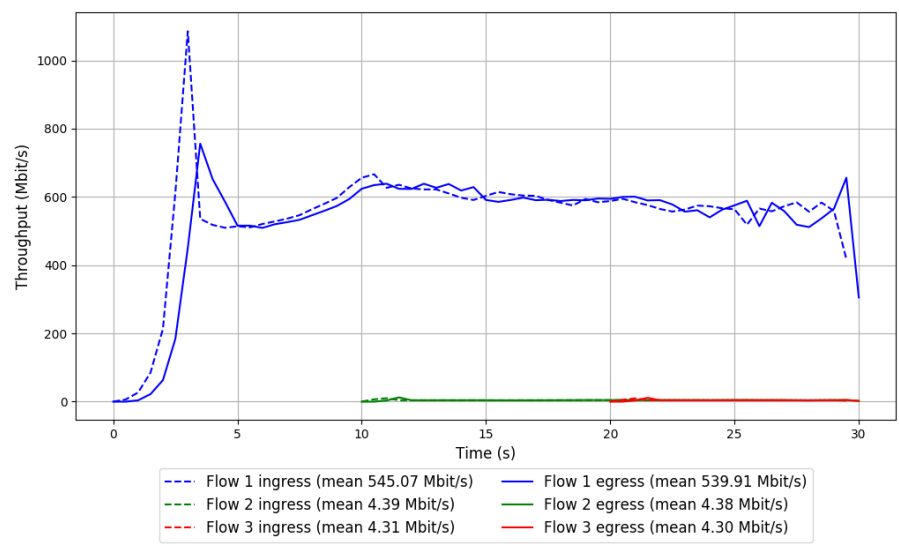


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-05 22:53:55
End at: 2018-06-05 22:54:25
Local clock offset: 0.014 ms
Remote clock offset: -0.279 ms

Below is generated by plot.py at 2018-06-06 00:35:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 544.20 Mbit/s
95th percentile per-packet one-way delay: 221.739 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 539.91 Mbit/s
95th percentile per-packet one-way delay: 221.735 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 200.286 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 243.146 ms
Loss rate: 2.53%

Run 10: Report of PCC-Allegro — Data Link

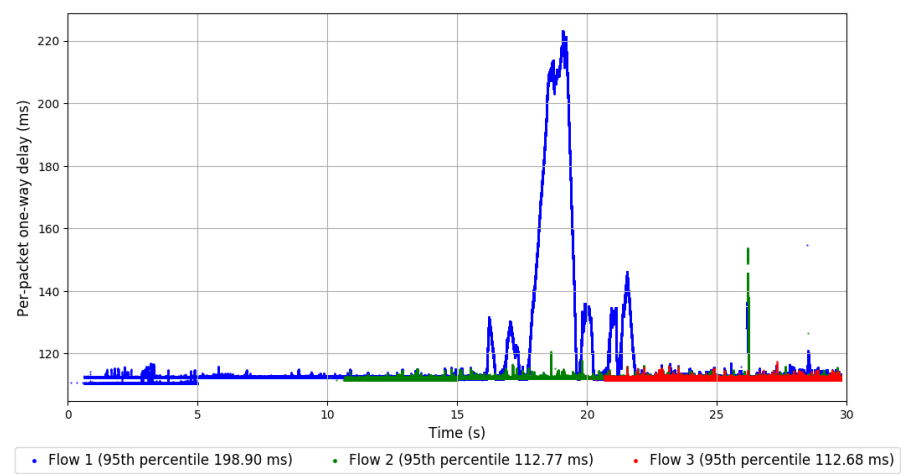
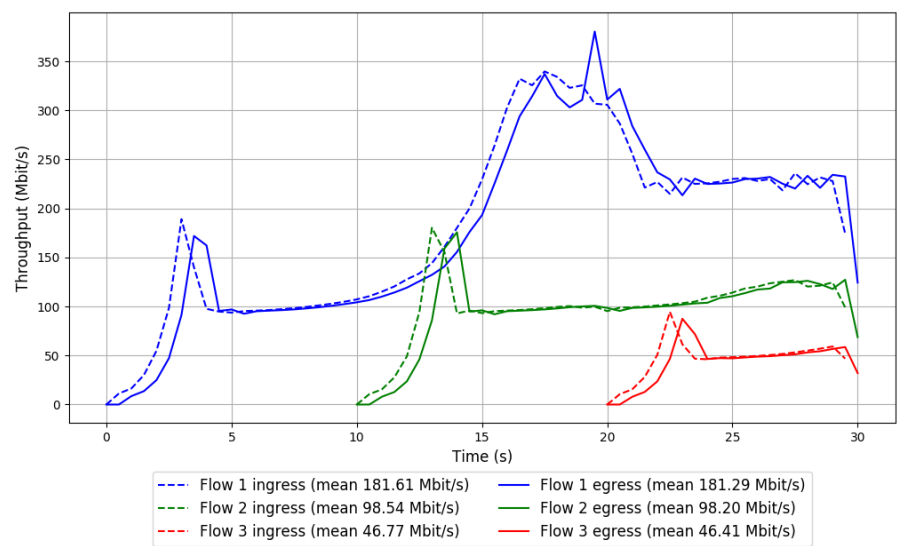


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-05 19:16:12
End at: 2018-06-05 19:16:42
Local clock offset: -0.041 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-06 00:35:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.39 Mbit/s
95th percentile per-packet one-way delay: 168.689 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 181.29 Mbit/s
95th percentile per-packet one-way delay: 198.896 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 98.20 Mbit/s
95th percentile per-packet one-way delay: 112.767 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 46.41 Mbit/s
95th percentile per-packet one-way delay: 112.678 ms
Loss rate: 3.07%
```

Run 1: Report of PCC-Expr — Data Link

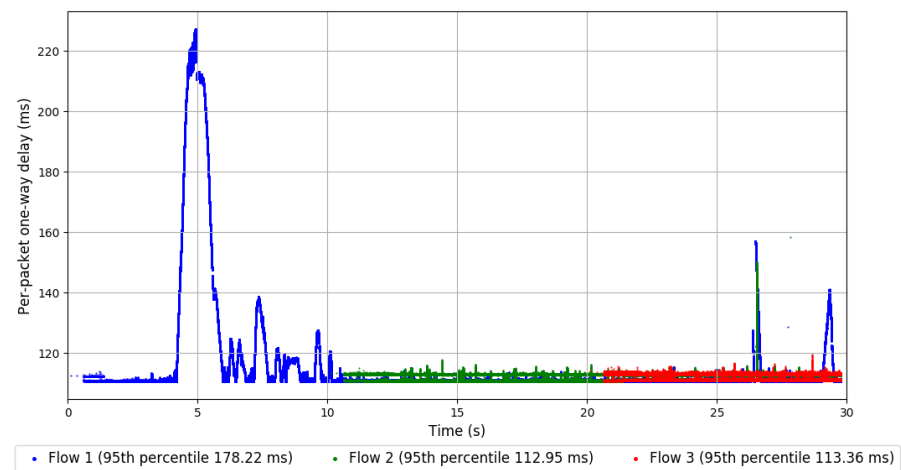
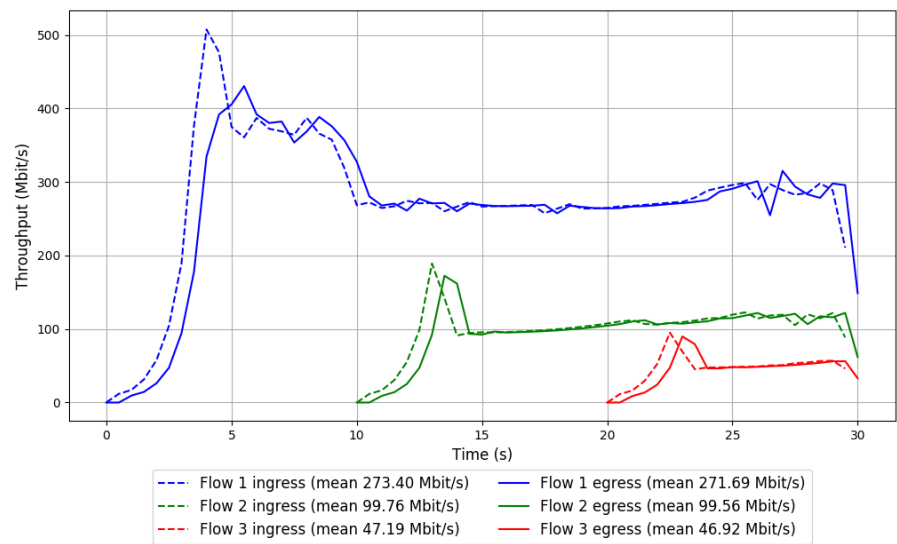


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-05 19:40:15
End at: 2018-06-05 19:40:45
Local clock offset: -0.069 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-06 00:38:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.86 Mbit/s
95th percentile per-packet one-way delay: 147.872 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 271.69 Mbit/s
95th percentile per-packet one-way delay: 178.215 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 99.56 Mbit/s
95th percentile per-packet one-way delay: 112.952 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 113.362 ms
Loss rate: 2.87%
```

Run 2: Report of PCC-Expr — Data Link

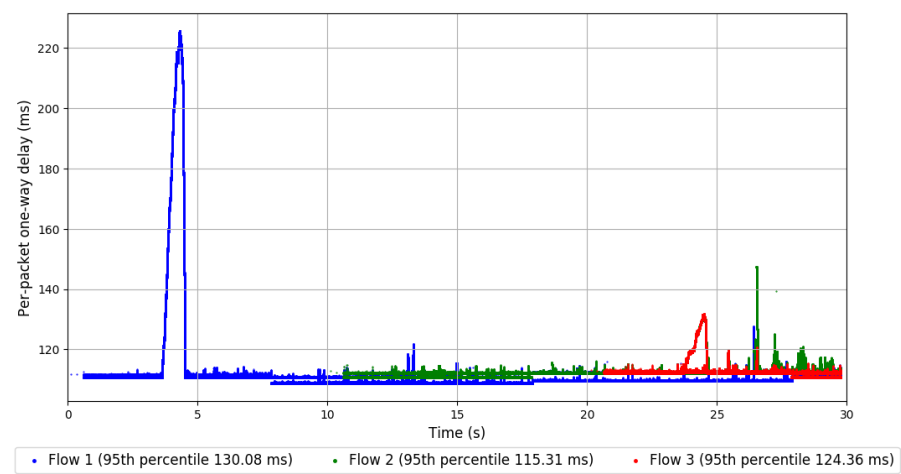
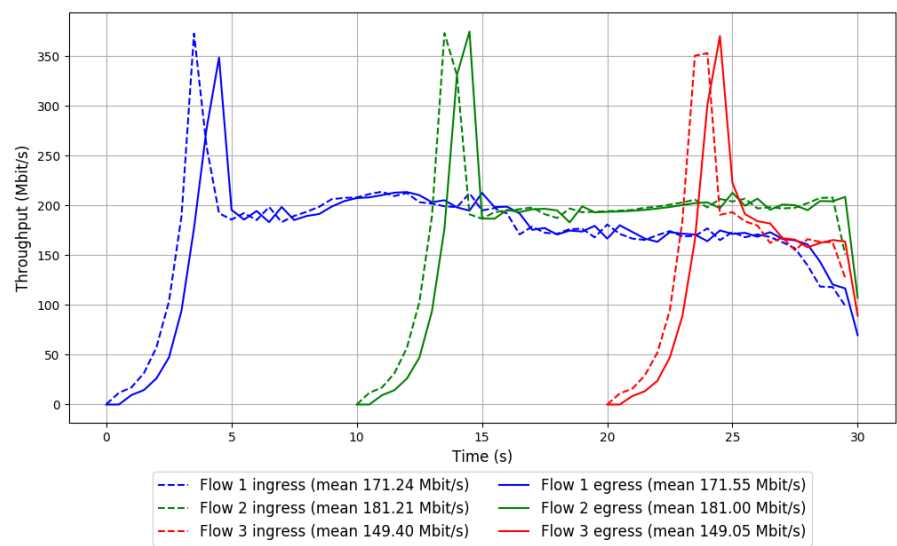


Run 3: Statistics of PCC-Expr

Start at: 2018-06-05 20:04:29
End at: 2018-06-05 20:04:59
Local clock offset: -0.177 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-06 00:39:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 339.85 Mbit/s
95th percentile per-packet one-way delay: 119.616 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 171.55 Mbit/s
95th percentile per-packet one-way delay: 130.078 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 181.00 Mbit/s
95th percentile per-packet one-way delay: 115.315 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 149.05 Mbit/s
95th percentile per-packet one-way delay: 124.359 ms
Loss rate: 2.52%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-05 20:28:18

End at: 2018-06-05 20:28:48

Local clock offset: 0.015 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-06-06 00:42:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.62 Mbit/s

95th percentile per-packet one-way delay: 205.431 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 321.73 Mbit/s

95th percentile per-packet one-way delay: 210.102 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 107.28 Mbit/s

95th percentile per-packet one-way delay: 112.836 ms

Loss rate: 1.47%

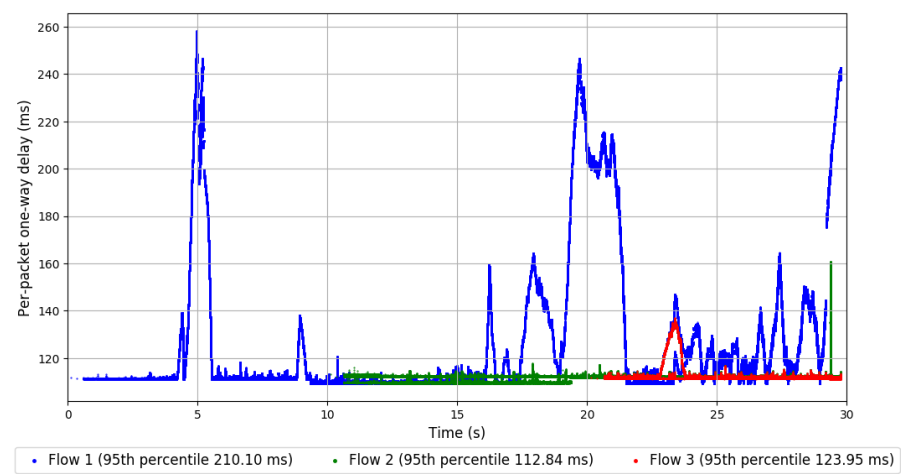
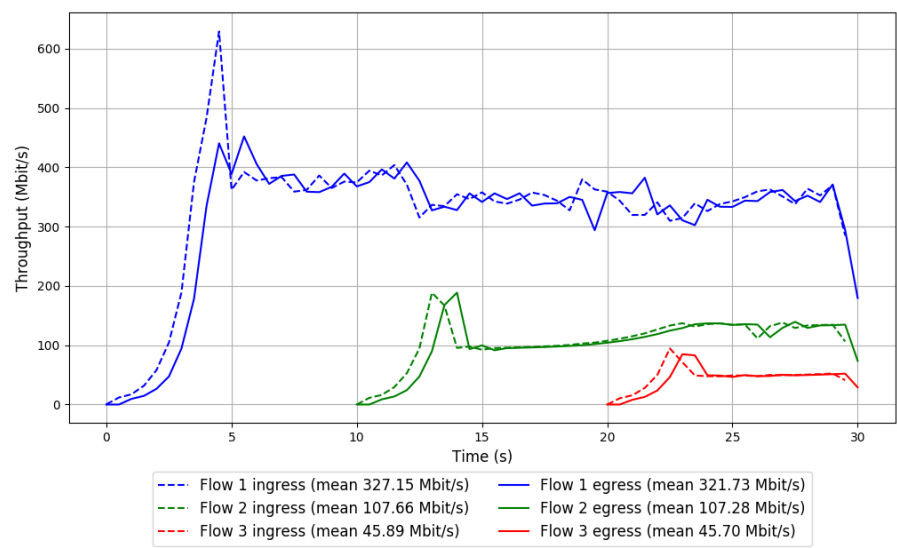
-- Flow 3:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 123.948 ms

Loss rate: 2.65%

Run 4: Report of PCC-Expr — Data Link

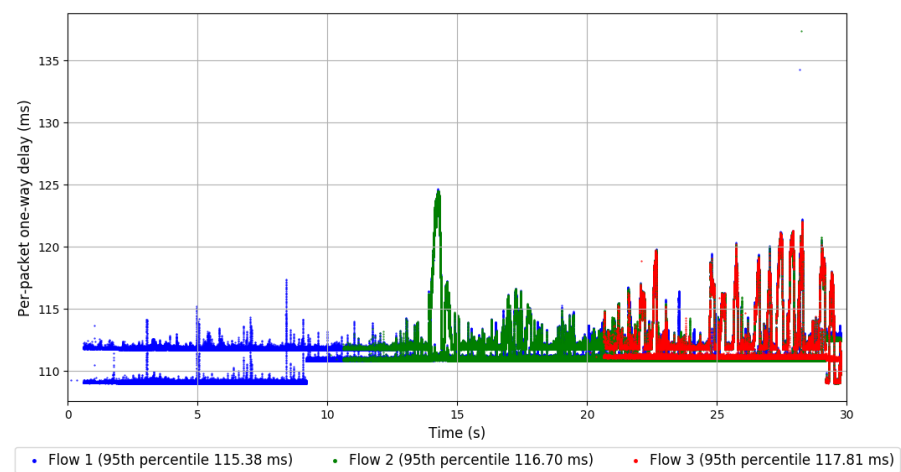
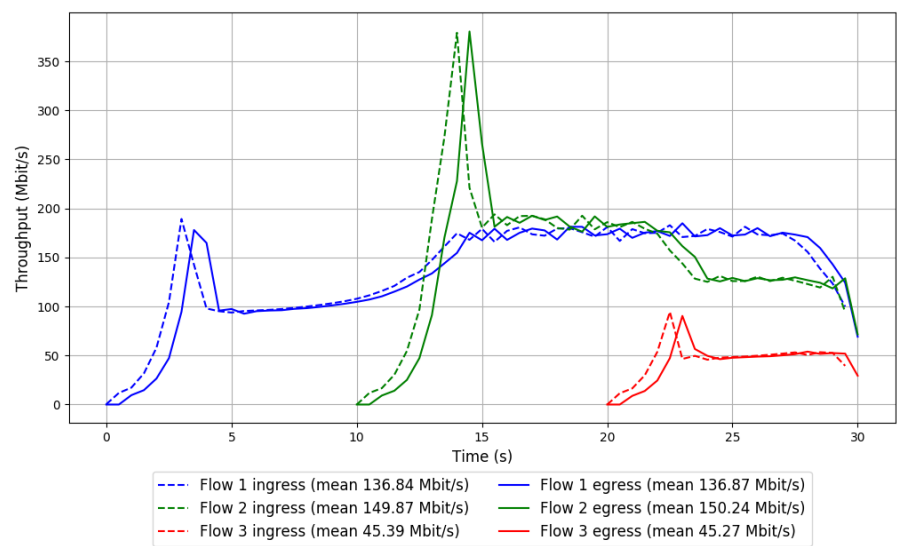


Run 5: Statistics of PCC-Expr

Start at: 2018-06-05 20:52:48
End at: 2018-06-05 20:53:18
Local clock offset: 0.122 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-06 00:42:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 251.10 Mbit/s
95th percentile per-packet one-way delay: 116.134 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 136.87 Mbit/s
95th percentile per-packet one-way delay: 115.379 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 150.24 Mbit/s
95th percentile per-packet one-way delay: 116.696 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 117.805 ms
Loss rate: 2.51%

Run 5: Report of PCC-Expr — Data Link

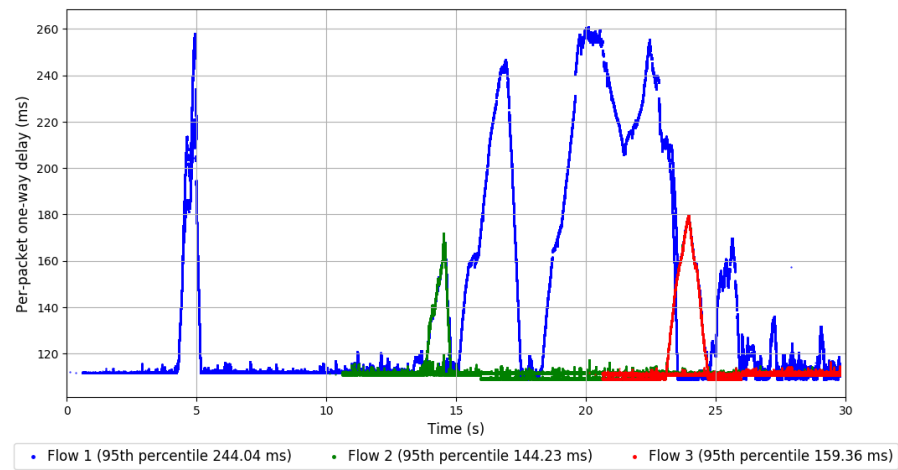
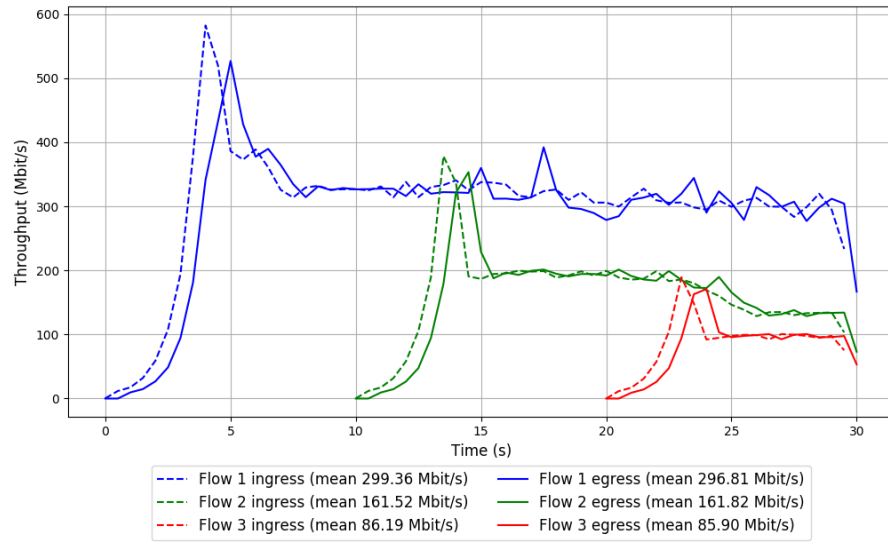


Run 6: Statistics of PCC-Expr

Start at: 2018-06-05 21:16:31
End at: 2018-06-05 21:17:01
Local clock offset: -0.073 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-06 00:46:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 431.94 Mbit/s
95th percentile per-packet one-way delay: 237.783 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 296.81 Mbit/s
95th percentile per-packet one-way delay: 244.040 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 161.82 Mbit/s
95th percentile per-packet one-way delay: 144.233 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 85.90 Mbit/s
95th percentile per-packet one-way delay: 159.362 ms
Loss rate: 2.59%

Run 6: Report of PCC-Expr — Data Link

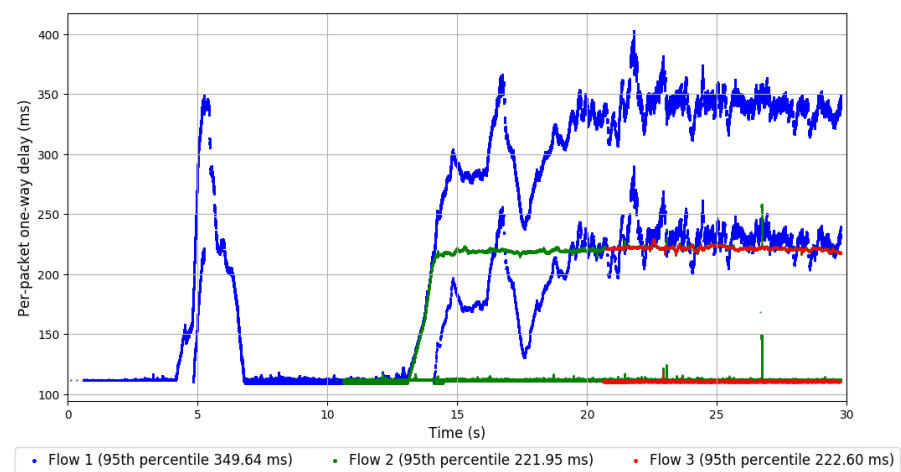
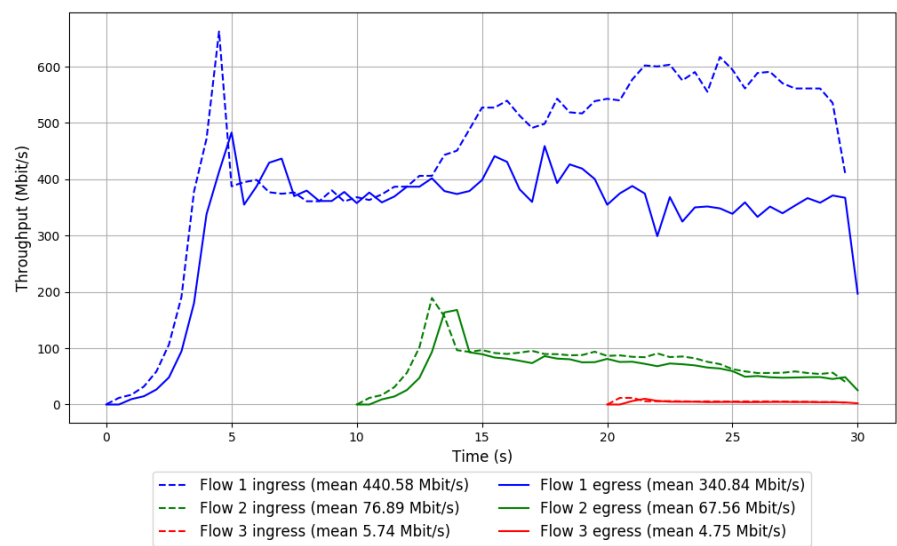


Run 7: Statistics of PCC-Expr

Start at: 2018-06-05 21:40:42
End at: 2018-06-05 21:41:12
Local clock offset: -0.007 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-06 00:48:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 387.13 Mbit/s
95th percentile per-packet one-way delay: 348.576 ms
Loss rate: 22.16%
-- Flow 1:
Average throughput: 340.84 Mbit/s
95th percentile per-packet one-way delay: 349.637 ms
Loss rate: 23.22%
-- Flow 2:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 221.951 ms
Loss rate: 13.12%
-- Flow 3:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 222.596 ms
Loss rate: 19.16%

Run 7: Report of PCC-Expr — Data Link

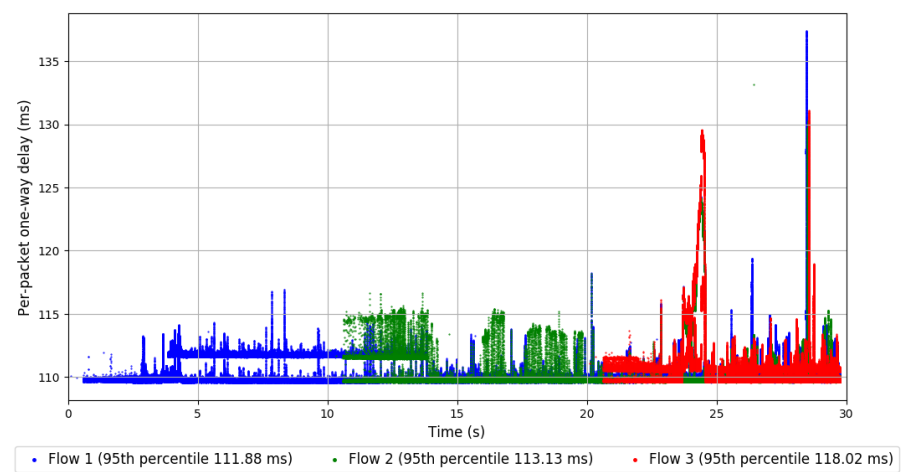
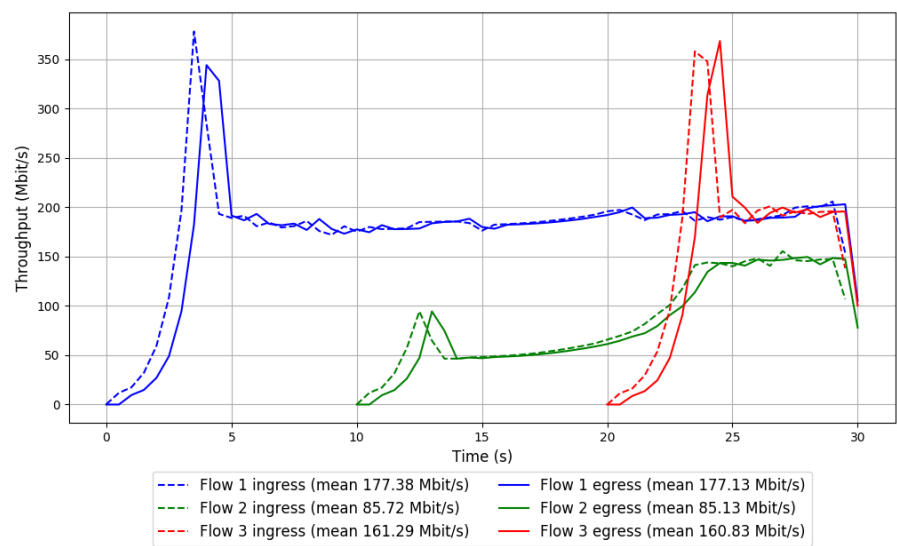


Run 8: Statistics of PCC-Expr

Start at: 2018-06-05 22:04:43
End at: 2018-06-05 22:05:13
Local clock offset: -0.139 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-06-06 00:48:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.80 Mbit/s
95th percentile per-packet one-way delay: 113.011 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 177.13 Mbit/s
95th percentile per-packet one-way delay: 111.877 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 85.13 Mbit/s
95th percentile per-packet one-way delay: 113.130 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 160.83 Mbit/s
95th percentile per-packet one-way delay: 118.021 ms
Loss rate: 2.55%

Run 8: Report of PCC-Expr — Data Link

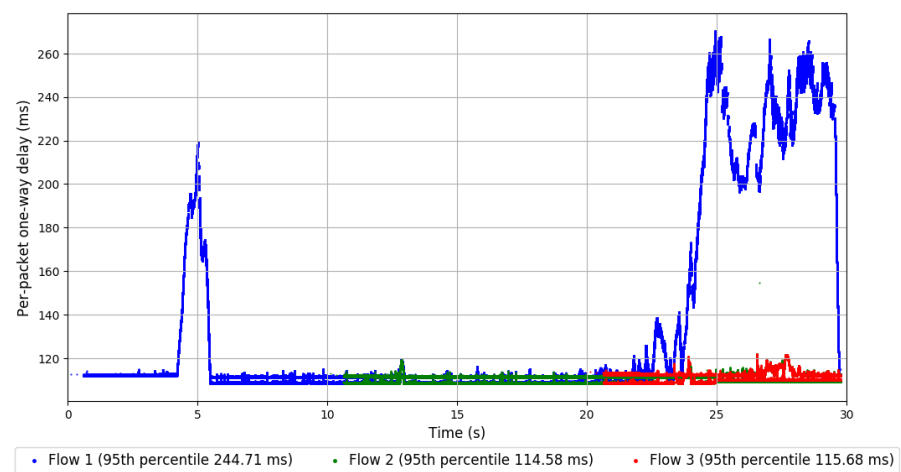
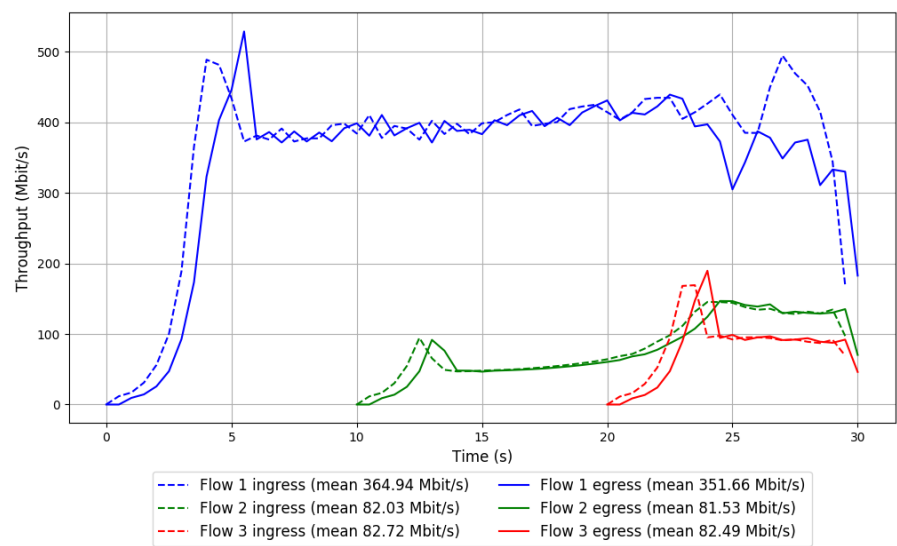


Run 9: Statistics of PCC-Expr

Start at: 2018-06-05 22:28:22
End at: 2018-06-05 22:28:52
Local clock offset: -0.437 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-06-06 00:49:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 432.44 Mbit/s
95th percentile per-packet one-way delay: 241.326 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 351.66 Mbit/s
95th percentile per-packet one-way delay: 244.710 ms
Loss rate: 4.36%
-- Flow 2:
Average throughput: 81.53 Mbit/s
95th percentile per-packet one-way delay: 114.582 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 82.49 Mbit/s
95th percentile per-packet one-way delay: 115.677 ms
Loss rate: 2.60%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-05 22:52:07

End at: 2018-06-05 22:52:37

Local clock offset: -0.35 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-06-06 00:50:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.20 Mbit/s

95th percentile per-packet one-way delay: 278.753 ms

Loss rate: 4.95%

-- Flow 1:

Average throughput: 280.99 Mbit/s

95th percentile per-packet one-way delay: 281.251 ms

Loss rate: 5.94%

-- Flow 2:

Average throughput: 93.35 Mbit/s

95th percentile per-packet one-way delay: 112.564 ms

Loss rate: 1.22%

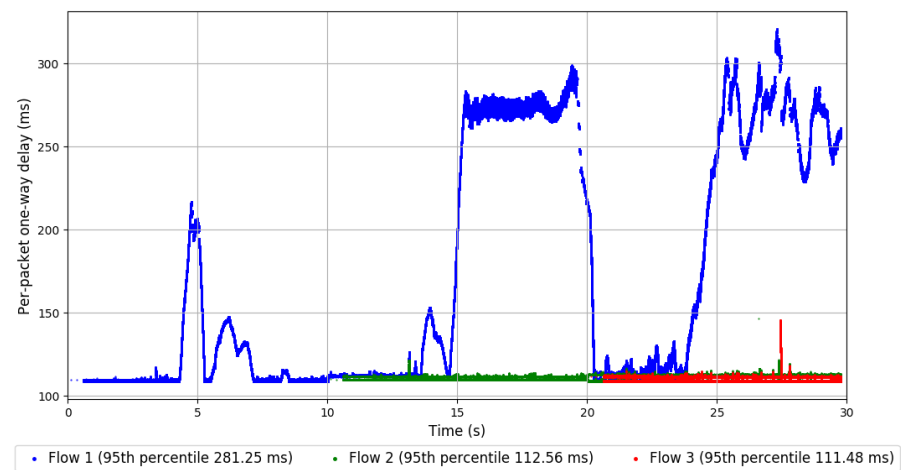
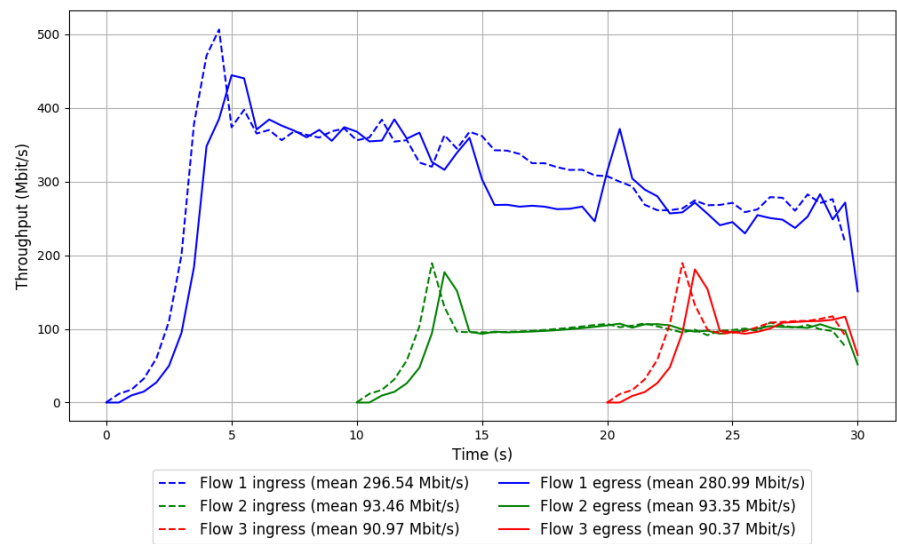
-- Flow 3:

Average throughput: 90.37 Mbit/s

95th percentile per-packet one-way delay: 111.477 ms

Loss rate: 2.91%

Run 10: Report of PCC-Expr — Data Link

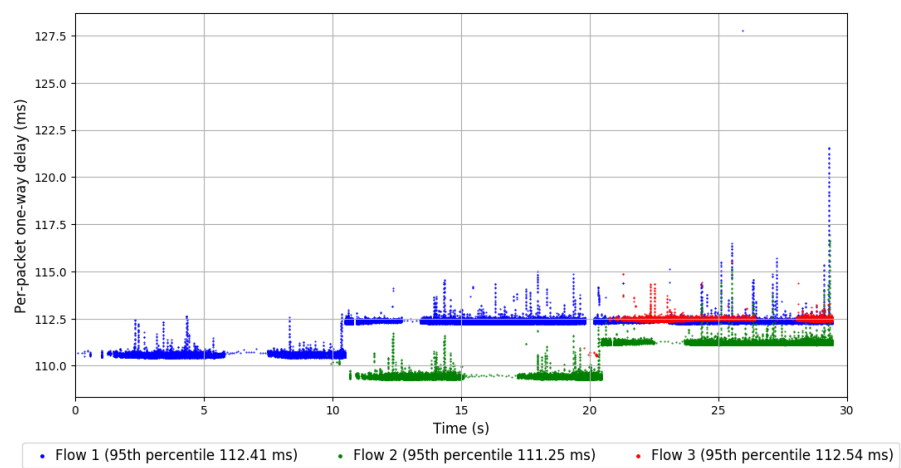
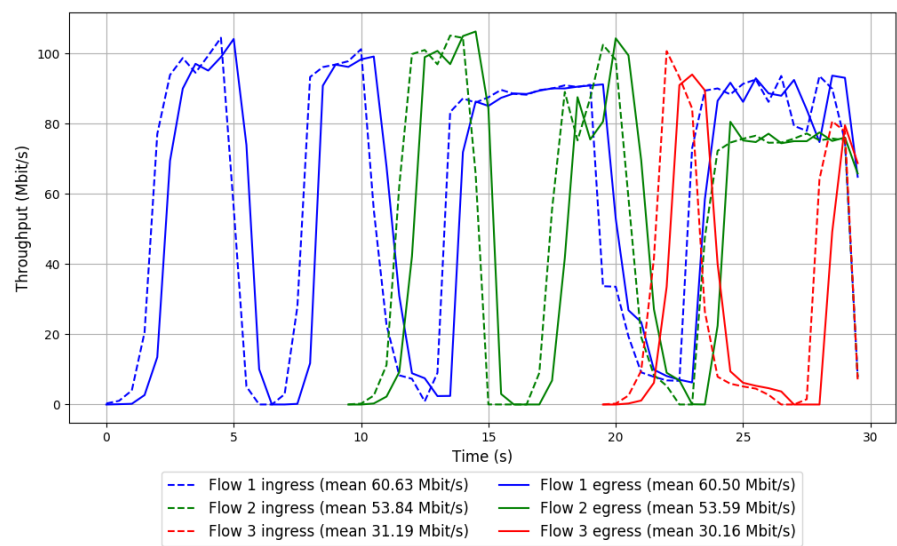


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-05 19:23:36
End at: 2018-06-05 19:24:06
Local clock offset: -0.287 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 106.35 Mbit/s
95th percentile per-packet one-way delay: 112.454 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 60.50 Mbit/s
95th percentile per-packet one-way delay: 112.409 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 53.59 Mbit/s
95th percentile per-packet one-way delay: 111.251 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 30.16 Mbit/s
95th percentile per-packet one-way delay: 112.541 ms
Loss rate: 5.50%

Run 1: Report of QUIC Cubic — Data Link

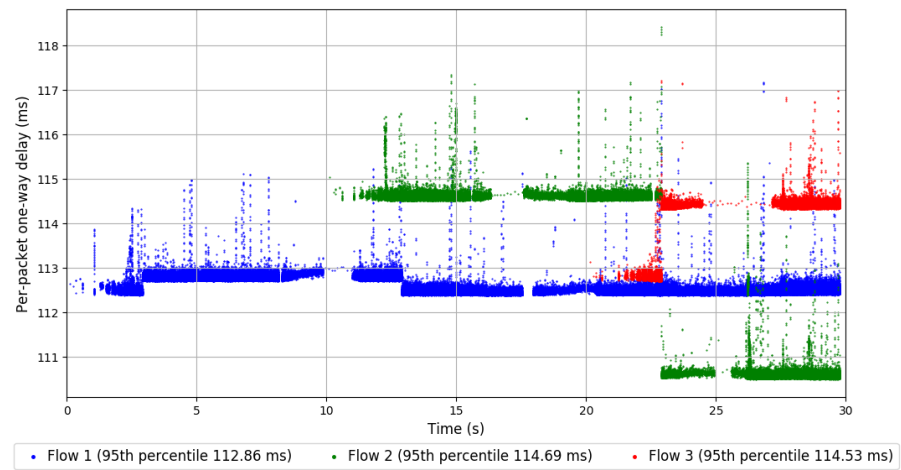
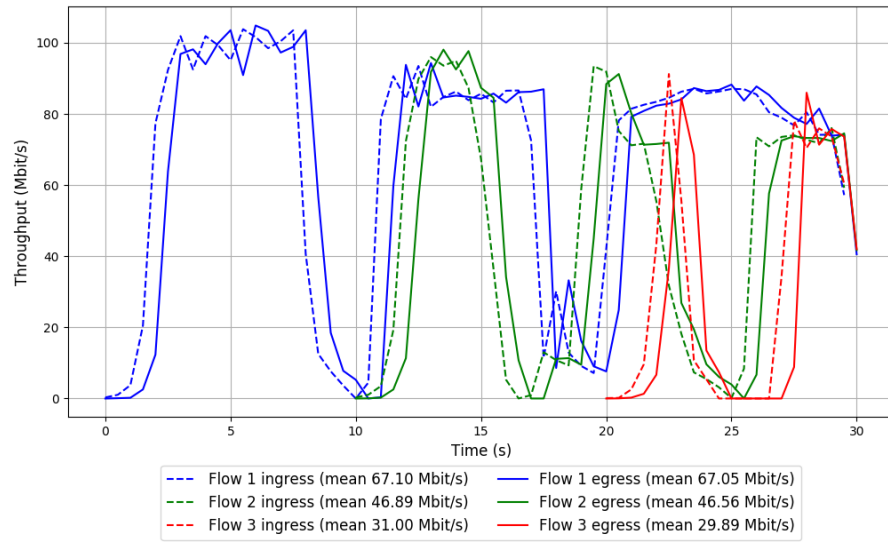


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-05 19:47:54
End at: 2018-06-05 19:48:24
Local clock offset: -0.134 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.61 Mbit/s
95th percentile per-packet one-way delay: 114.630 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 67.05 Mbit/s
95th percentile per-packet one-way delay: 112.859 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 114.689 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 29.89 Mbit/s
95th percentile per-packet one-way delay: 114.531 ms
Loss rate: 5.78%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-05 20:11:56

End at: 2018-06-05 20:12:26

Local clock offset: 0.025 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-06 00:50:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.55 Mbit/s

95th percentile per-packet one-way delay: 112.779 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 59.11 Mbit/s

95th percentile per-packet one-way delay: 110.725 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 41.45 Mbit/s

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

Loss rate: 2.03%

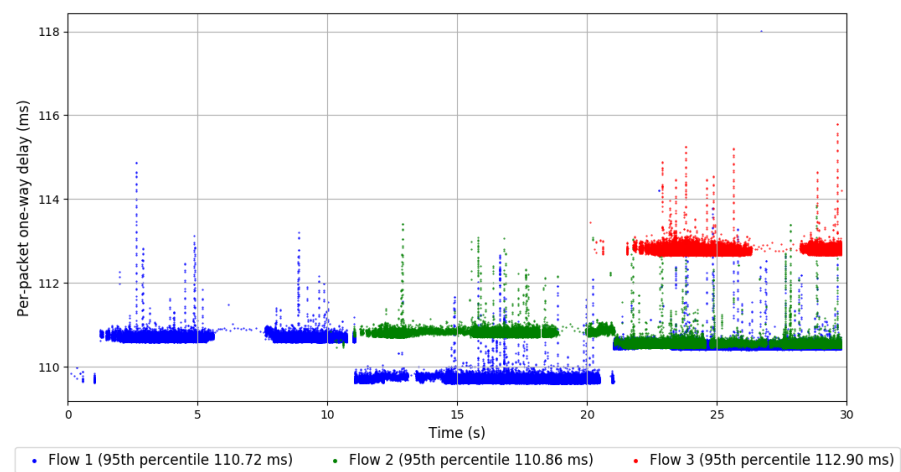
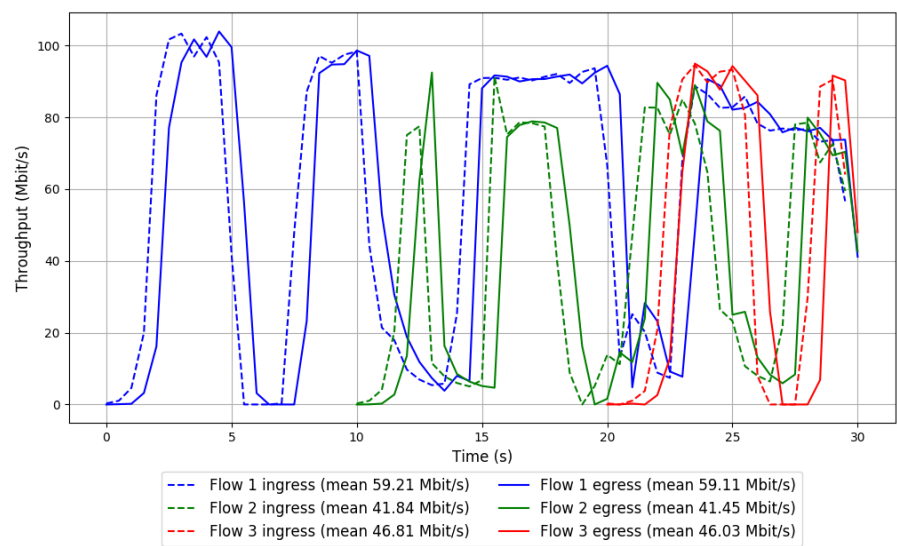
-- Flow 3:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 112.896 ms

Loss rate: 3.89%

Run 3: Report of QUIC Cubic — Data Link

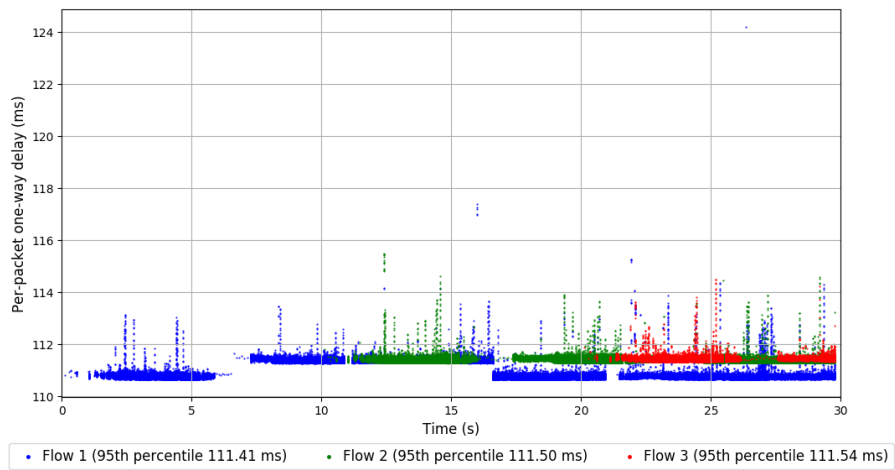
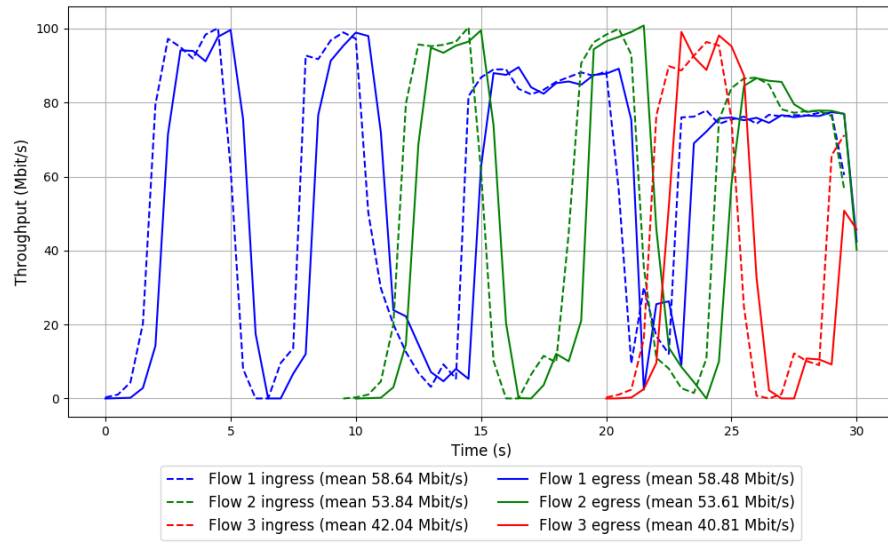


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-05 20:36:00
End at: 2018-06-05 20:36:30
Local clock offset: -0.164 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.31 Mbit/s
95th percentile per-packet one-way delay: 111.481 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 111.409 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 53.61 Mbit/s
95th percentile per-packet one-way delay: 111.497 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 111.537 ms
Loss rate: 5.11%

Run 4: Report of QUIC Cubic — Data Link

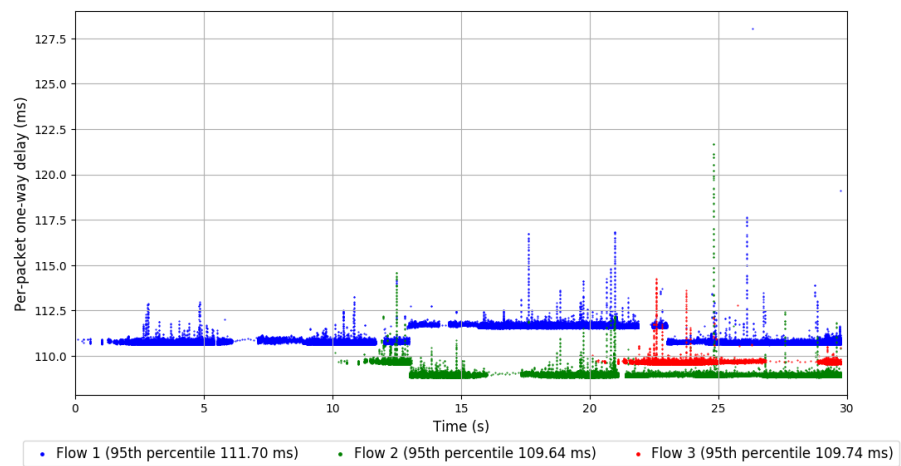
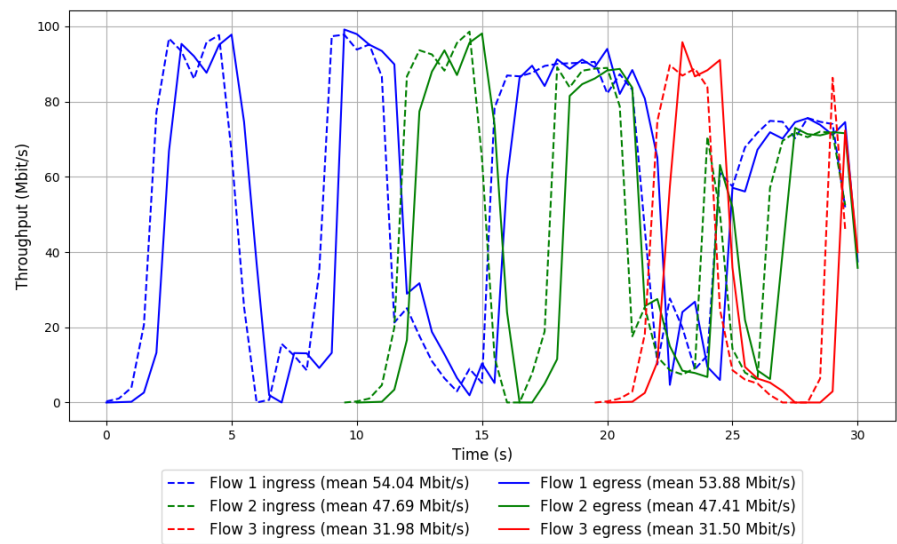


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-05 21:00:04
End at: 2018-06-05 21:00:34
Local clock offset: -0.102 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 111.663 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 111.697 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 47.41 Mbit/s
95th percentile per-packet one-way delay: 109.638 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 109.740 ms
Loss rate: 3.73%

Run 5: Report of QUIC Cubic — Data Link

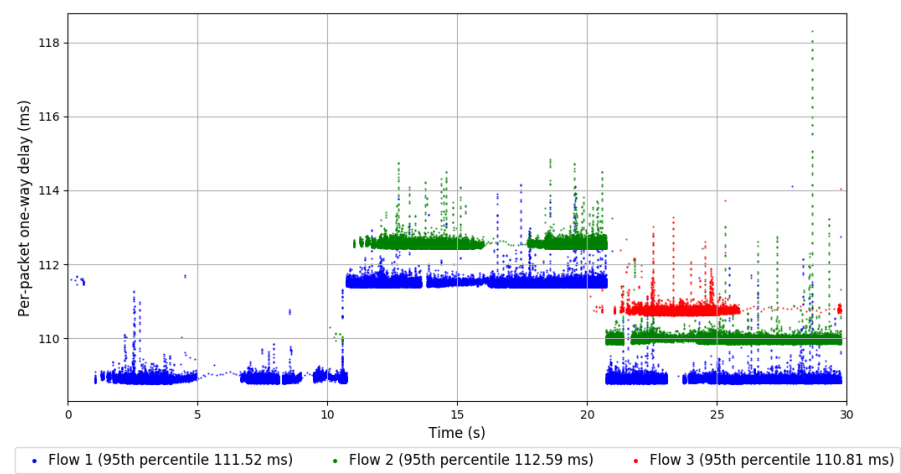
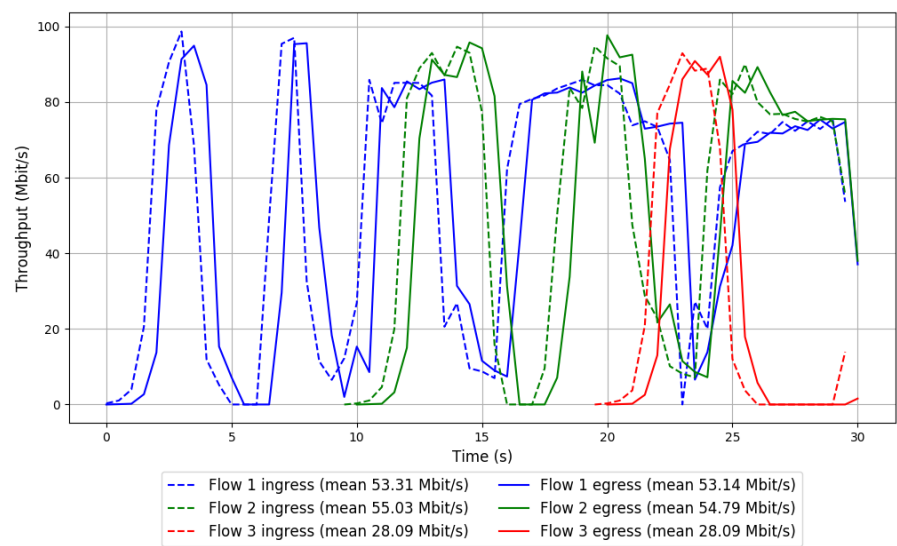


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-05 21:24:16
End at: 2018-06-05 21:24:46
Local clock offset: -0.142 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 98.64 Mbit/s
95th percentile per-packet one-way delay: 112.541 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 111.524 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 54.79 Mbit/s
95th percentile per-packet one-way delay: 112.594 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 110.812 ms
Loss rate: 2.22%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-05 21:48:14

End at: 2018-06-05 21:48:44

Local clock offset: -0.267 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-06-06 00:50:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 111.322 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 49.13 Mbit/s

95th percentile per-packet one-way delay: 111.351 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 42.48 Mbit/s

95th percentile per-packet one-way delay: 111.164 ms

Loss rate: 1.95%

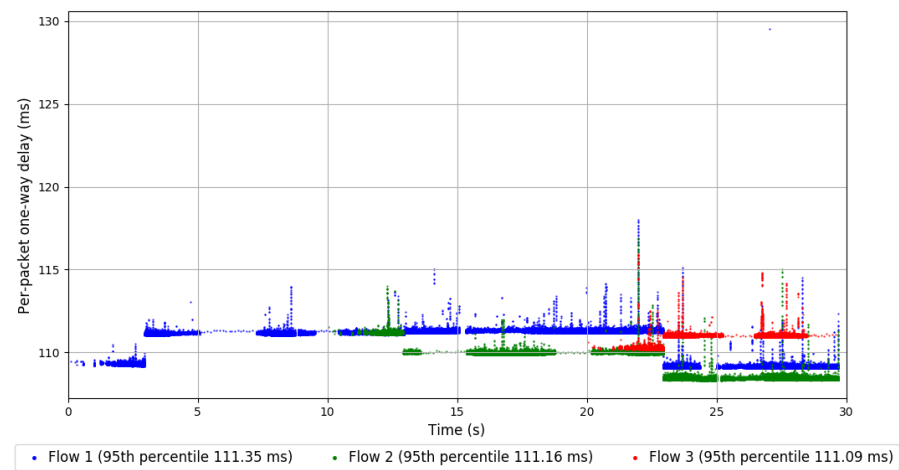
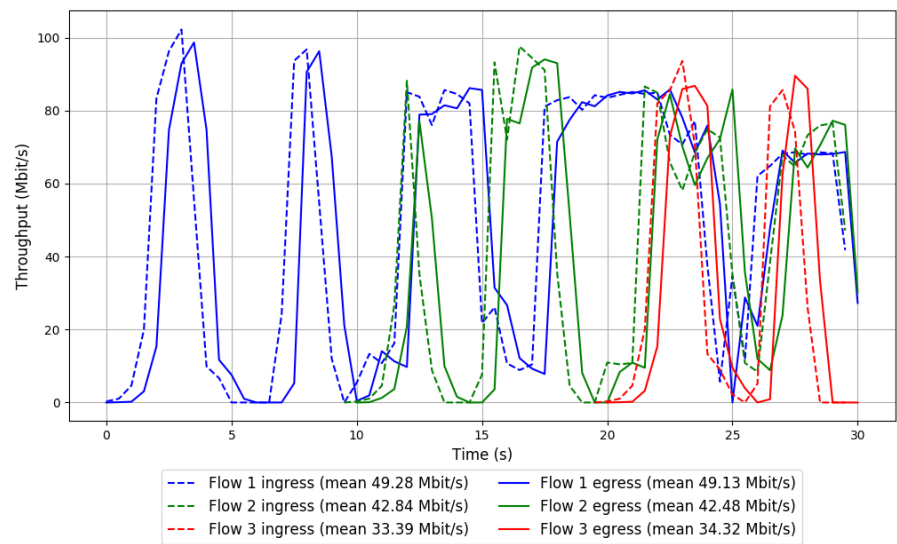
-- Flow 3:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 111.086 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

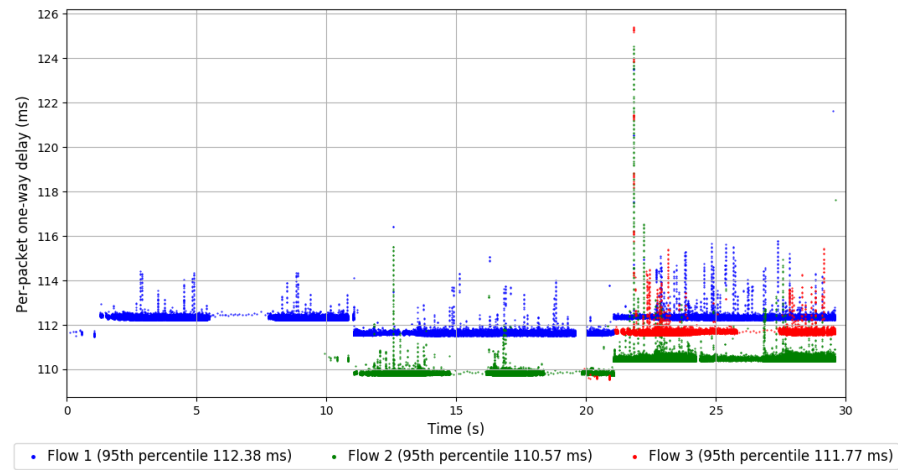
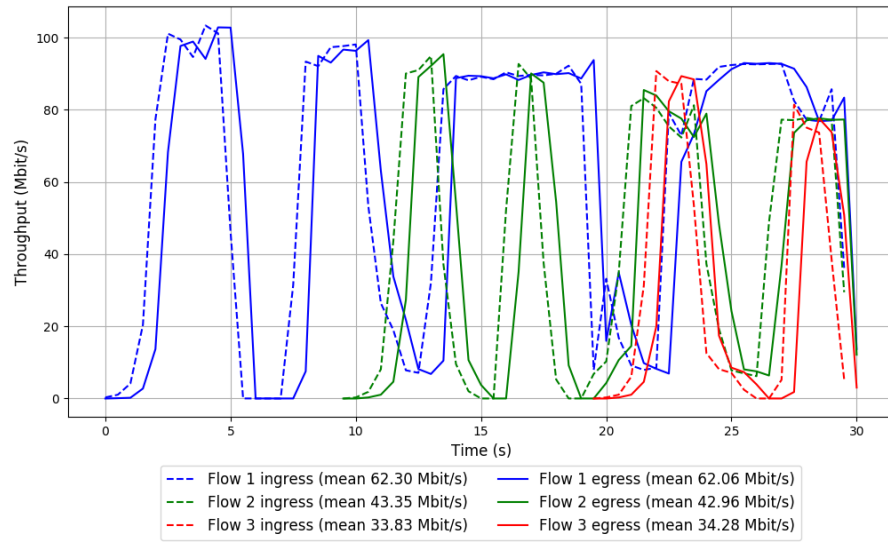


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-05 22:12:06
End at: 2018-06-05 22:12:36
Local clock offset: -0.199 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 101.91 Mbit/s
95th percentile per-packet one-way delay: 112.355 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 62.06 Mbit/s
95th percentile per-packet one-way delay: 112.375 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 110.568 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 111.766 ms
Loss rate: 0.95%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-05 22:35:48

End at: 2018-06-05 22:36:18

Local clock offset: -0.387 ms

Remote clock offset: -0.24 ms

Below is generated by plot.py at 2018-06-06 00:50:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.95 Mbit/s

95th percentile per-packet one-way delay: 112.546 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 60.93 Mbit/s

95th percentile per-packet one-way delay: 112.474 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 56.60 Mbit/s

95th percentile per-packet one-way delay: 112.590 ms

Loss rate: 1.54%

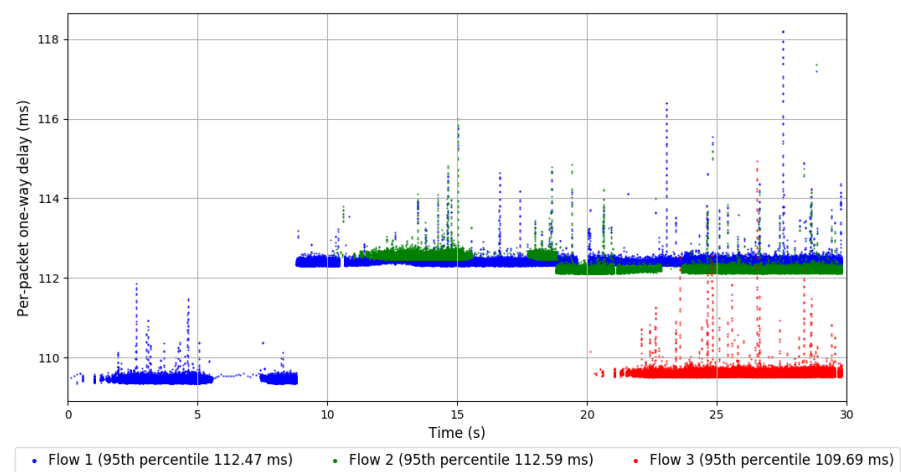
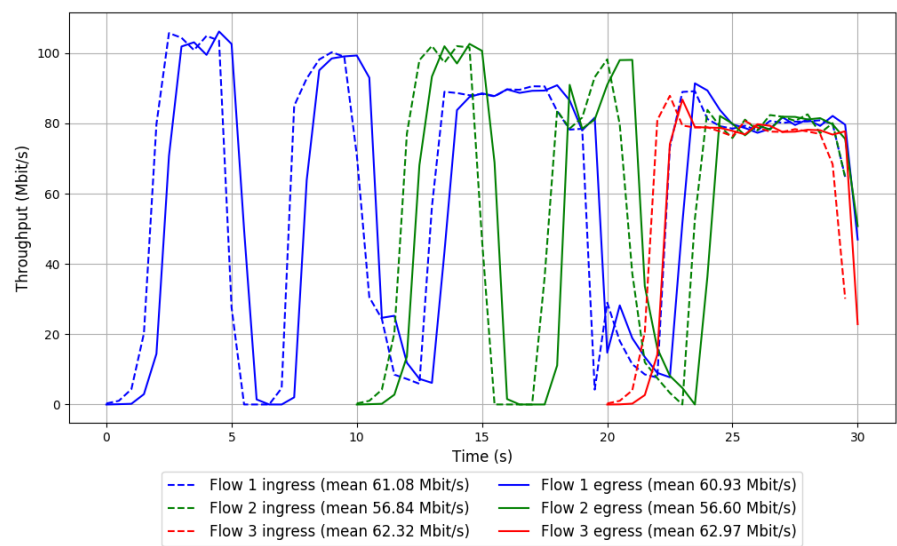
-- Flow 3:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 109.692 ms

Loss rate: 1.21%

Run 9: Report of QUIC Cubic — Data Link

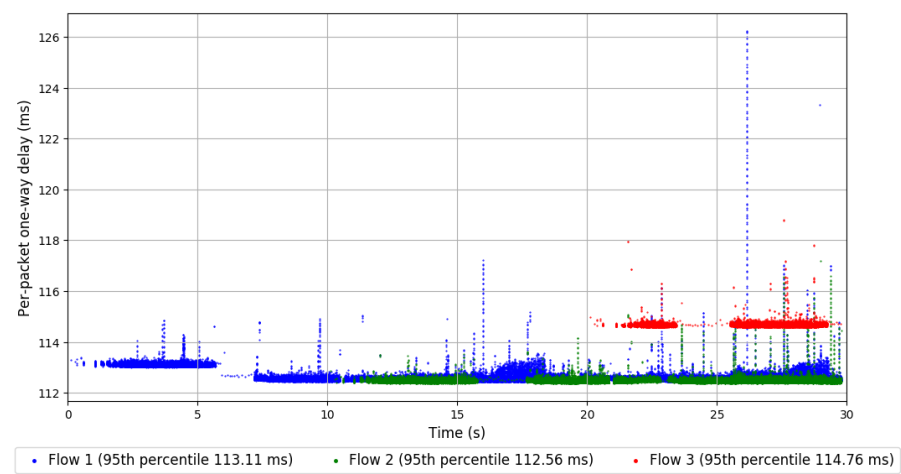
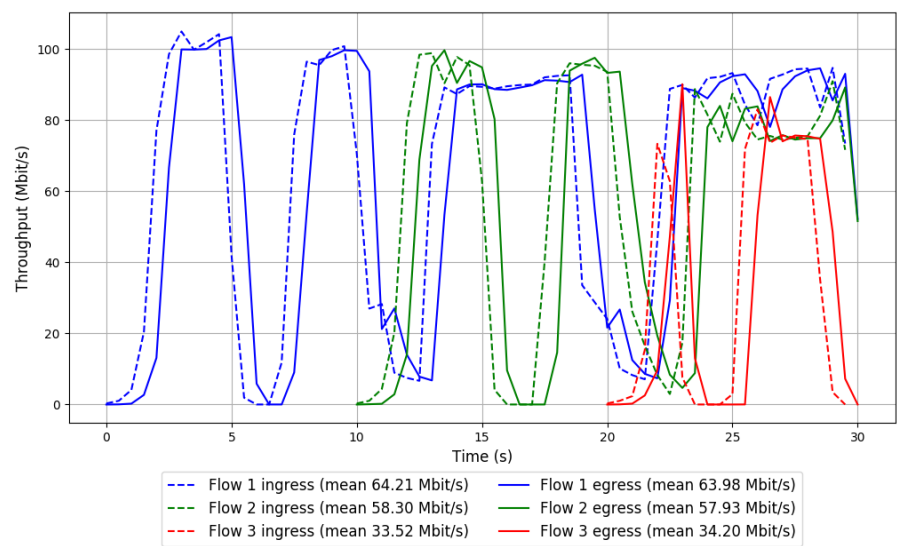


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-05 22:59:41
End at: 2018-06-05 23:00:11
Local clock offset: -0.095 ms
Remote clock offset: -0.682 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 113.47 Mbit/s
95th percentile per-packet one-way delay: 114.666 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 113.108 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 112.556 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 114.756 ms
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

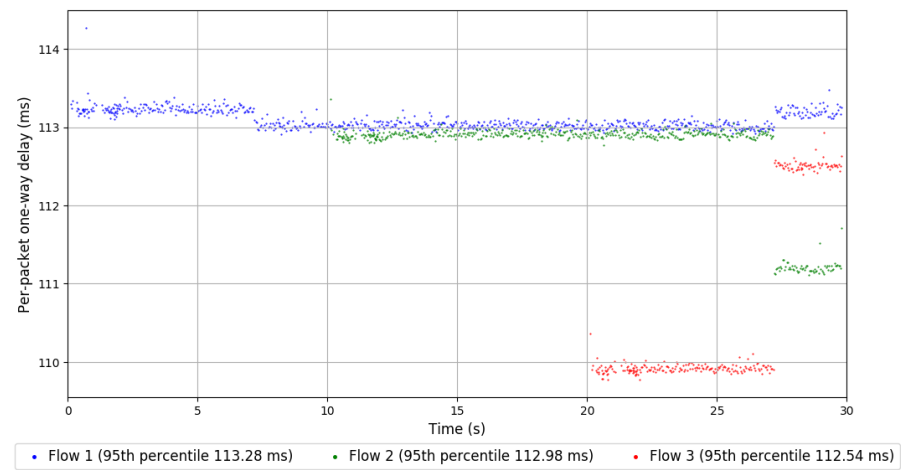
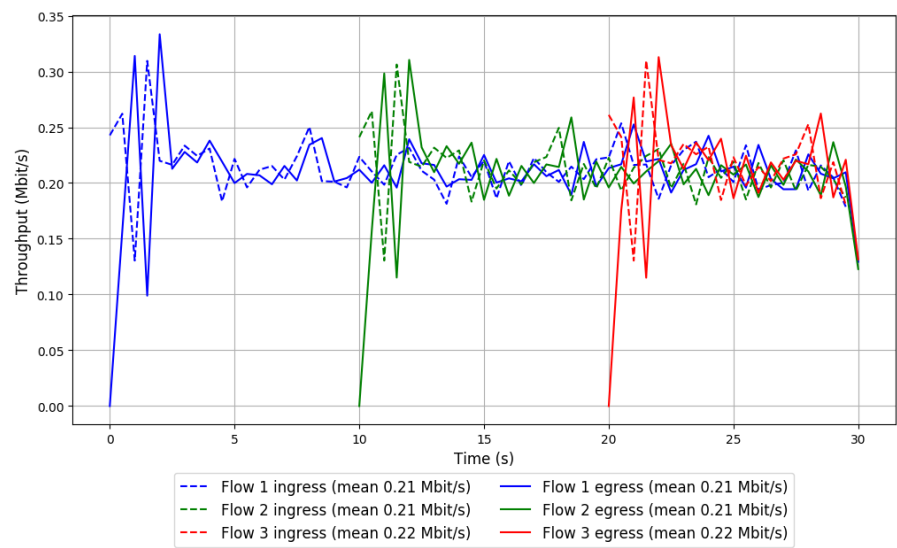


```
Run 1: Statistics of SCReAM

Start at: 2018-06-05 19:37:10
End at: 2018-06-05 19:37:40
Local clock offset: 0.12 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-06 00:50:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 113.249 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.285 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.977 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.541 ms
Loss rate: 2.19%
```

Run 1: Report of SReAM — Data Link

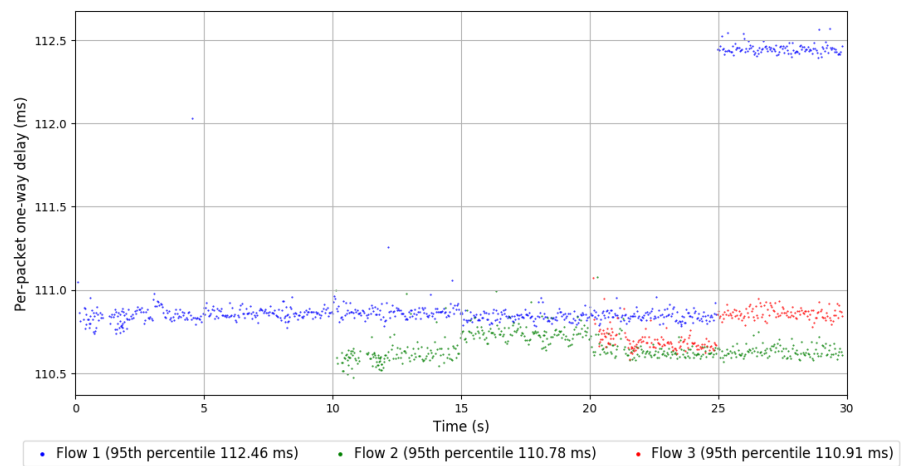
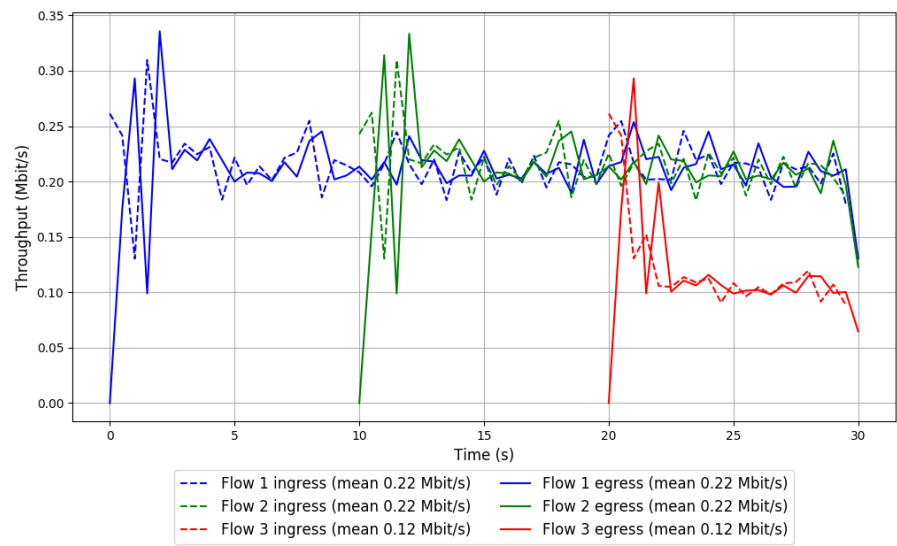


Run 2: Statistics of SReAM

Start at: 2018-06-05 20:01:22
End at: 2018-06-05 20:01:52
Local clock offset: -0.11 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 112.437 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.456 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.777 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 110.912 ms
Loss rate: 1.93%

Run 2: Report of SReAM — Data Link

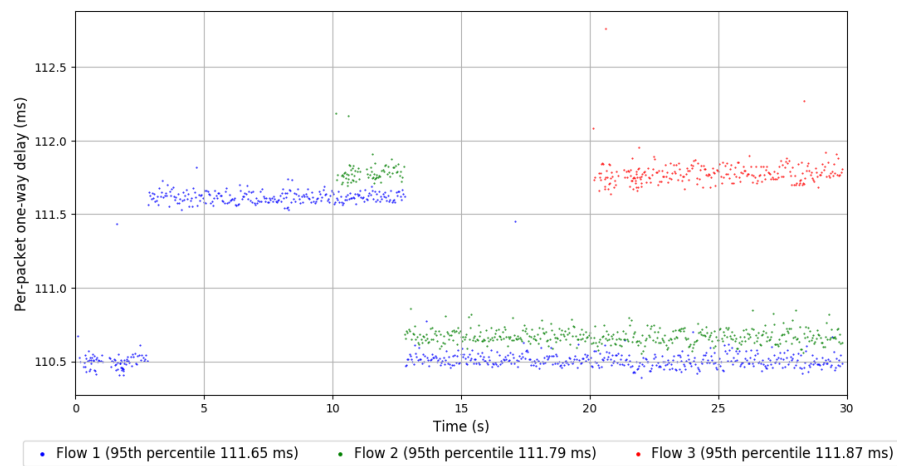
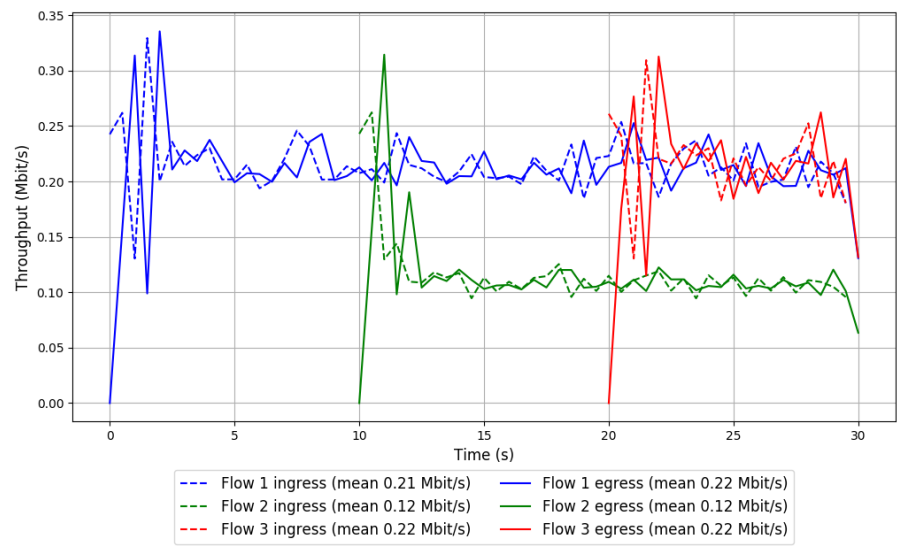


Run 3: Statistics of SCReAM

Start at: 2018-06-05 20:25:14
End at: 2018-06-05 20:25:44
Local clock offset: -0.148 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 111.817 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.653 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 111.792 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.866 ms
Loss rate: 2.21%

Run 3: Report of SReAM — Data Link

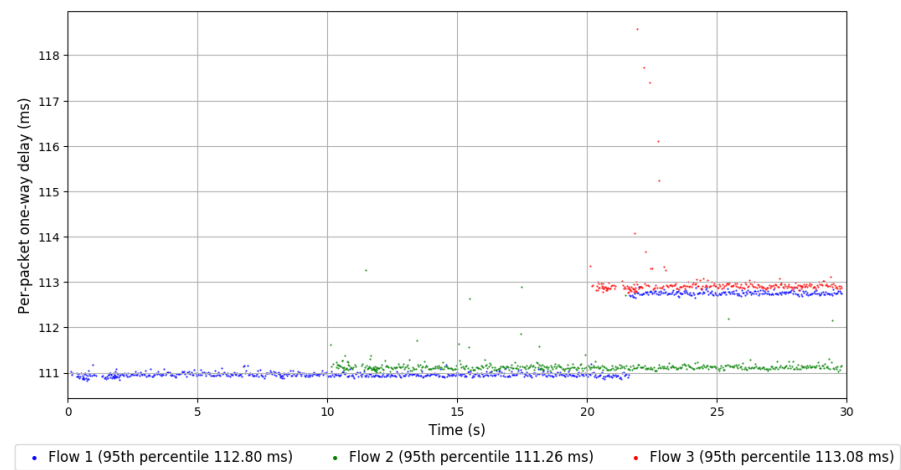
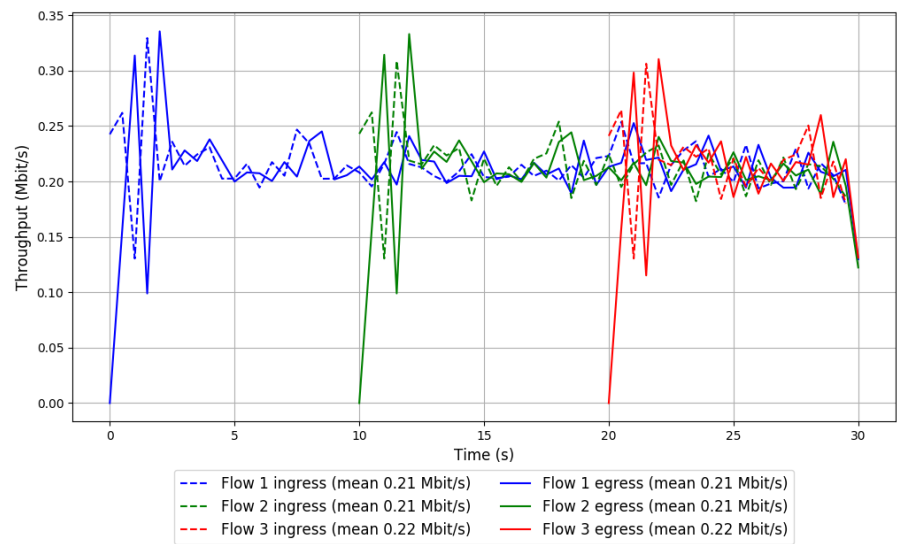


Run 4: Statistics of SCReAM

Start at: 2018-06-05 20:49:35
End at: 2018-06-05 20:50:05
Local clock offset: -0.021 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.935 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.796 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.259 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.084 ms
Loss rate: 2.21%

Run 4: Report of SReAM — Data Link

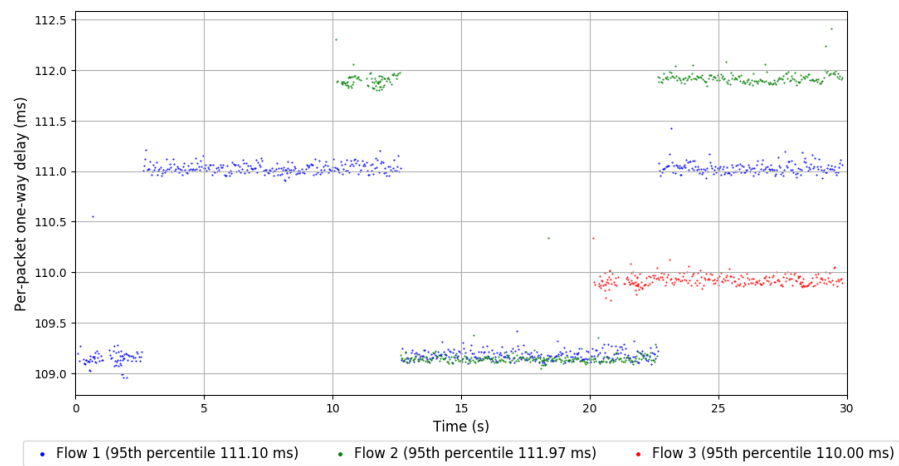
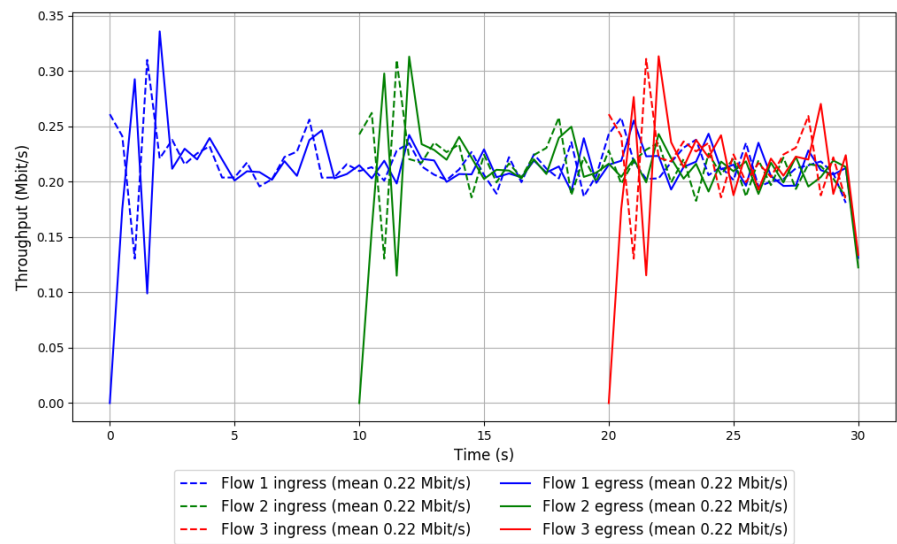


Run 5: Statistics of SReAM

Start at: 2018-06-05 21:13:24
End at: 2018-06-05 21:13:54
Local clock offset: -0.004 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.931 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.101 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.967 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.000 ms
Loss rate: 2.21%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-05 21:37:41

End at: 2018-06-05 21:38:11

Local clock offset: -0.347 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-06 00:50:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 112.671 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 111.546 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.805 ms

Loss rate: 1.24%

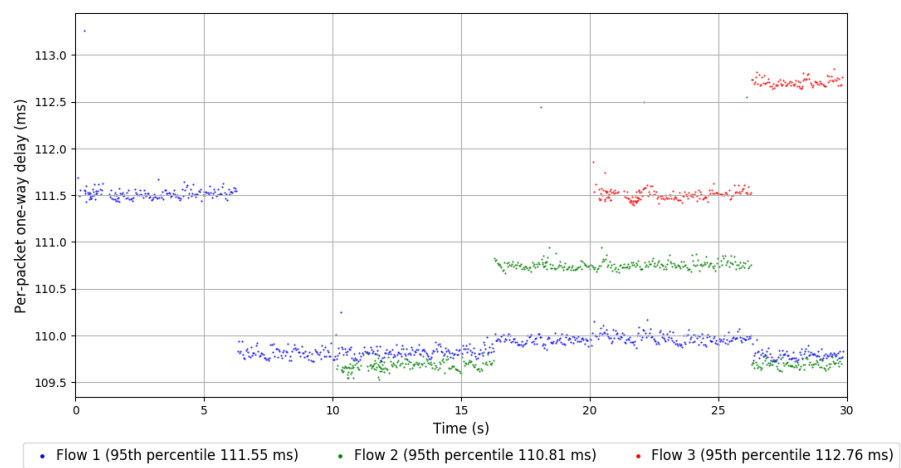
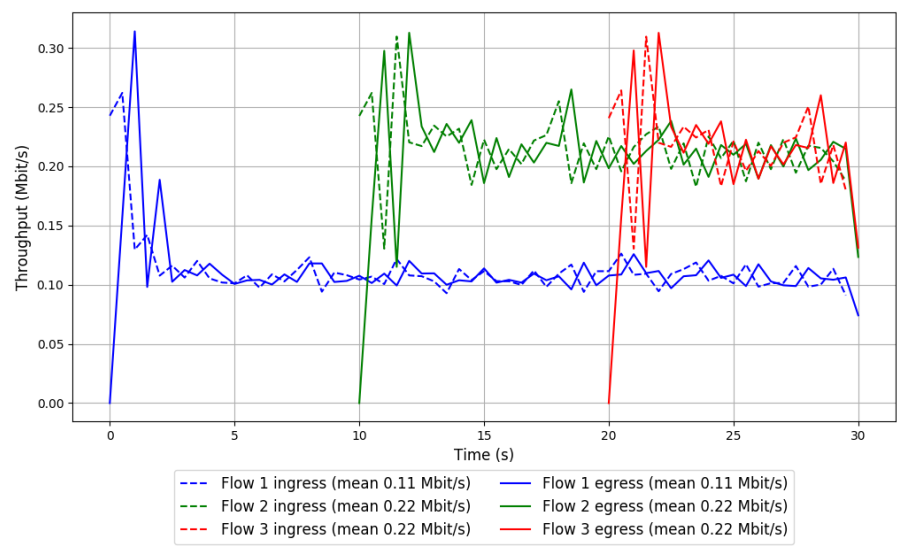
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.757 ms

Loss rate: 2.20%

Run 6: Report of SReAM — Data Link

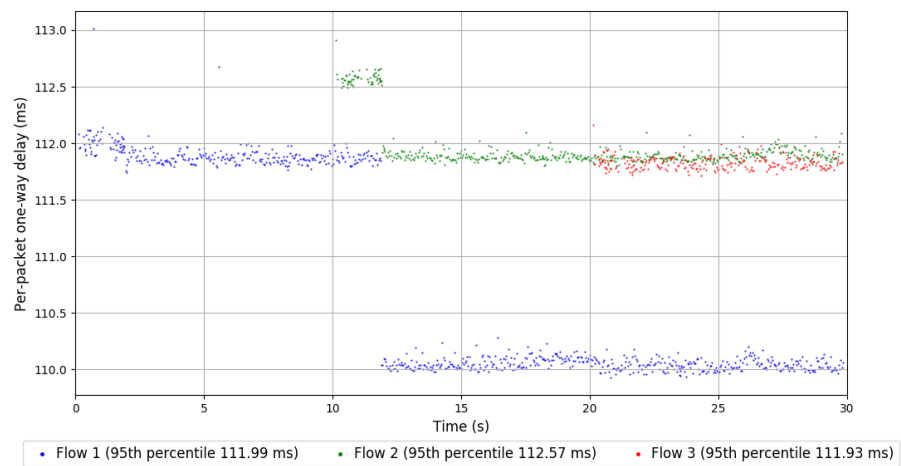
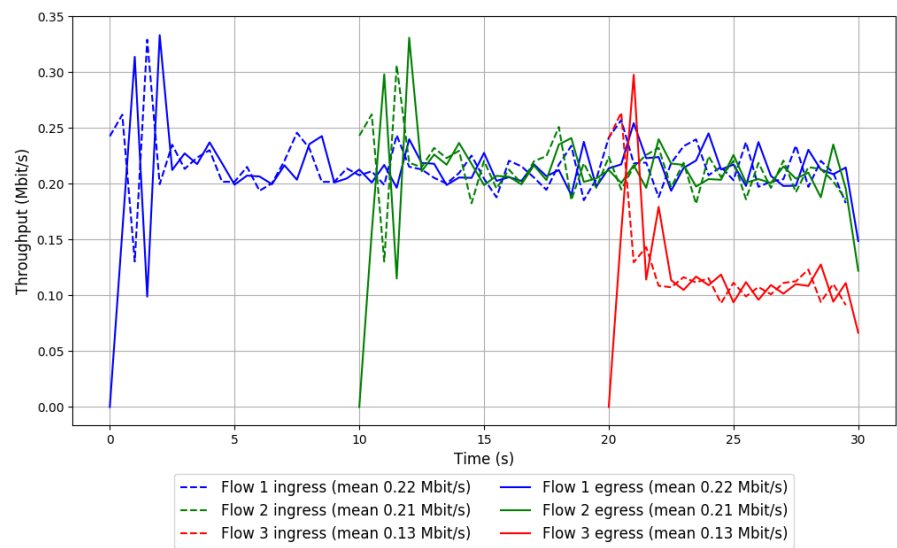


Run 7: Statistics of SReAM

Start at: 2018-06-05 22:01:35
End at: 2018-06-05 22:02:05
Local clock offset: 0.012 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 112.070 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.988 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.572 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 111.926 ms
Loss rate: 1.96%

Run 7: Report of SReAM — Data Link

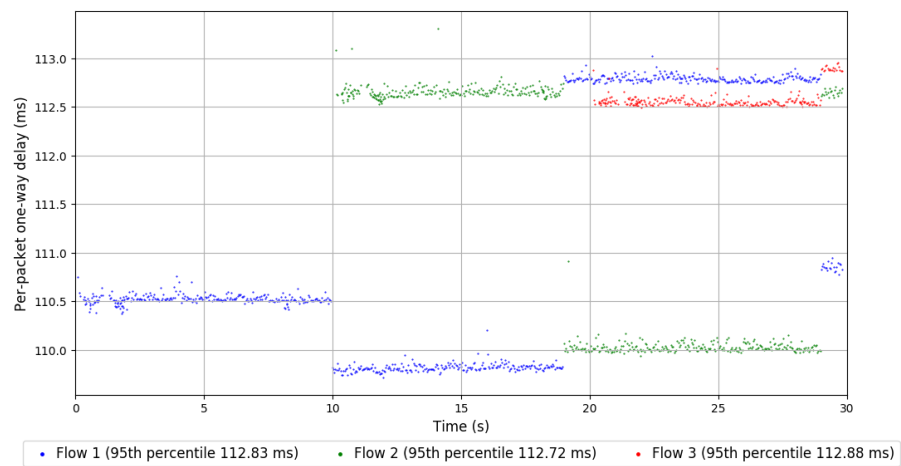
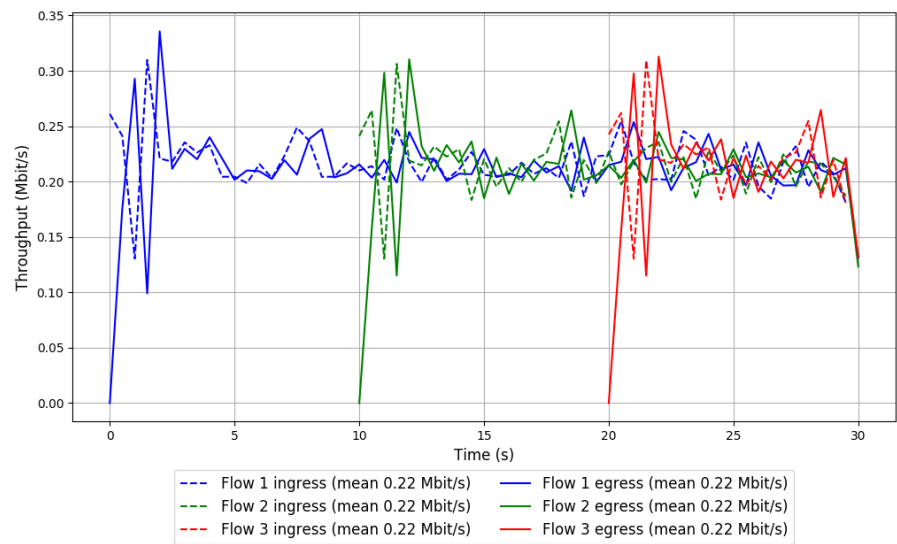


Run 8: Statistics of SReAM

Start at: 2018-06-05 22:25:18
End at: 2018-06-05 22:25:48
Local clock offset: -0.066 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.816 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.825 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.723 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.880 ms
Loss rate: 2.20%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-05 22:49:00

End at: 2018-06-05 22:49:30

Local clock offset: 0.031 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-06 00:50:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 112.678 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.703 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.538 ms

Loss rate: 1.23%

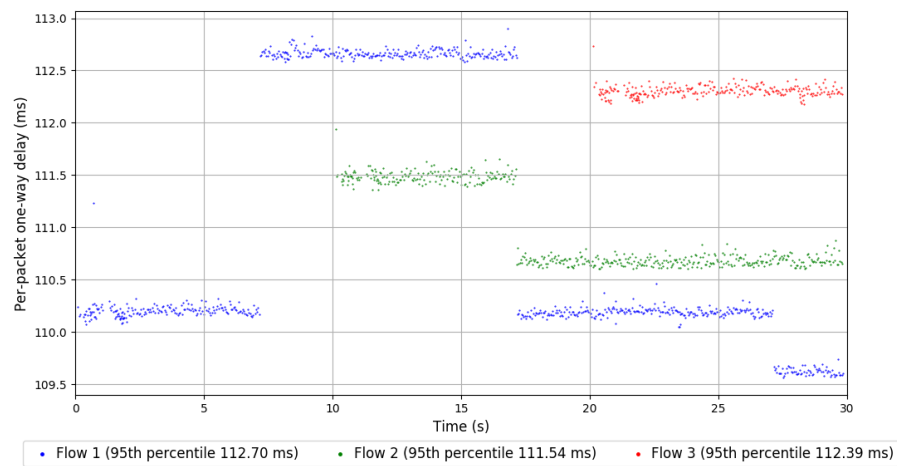
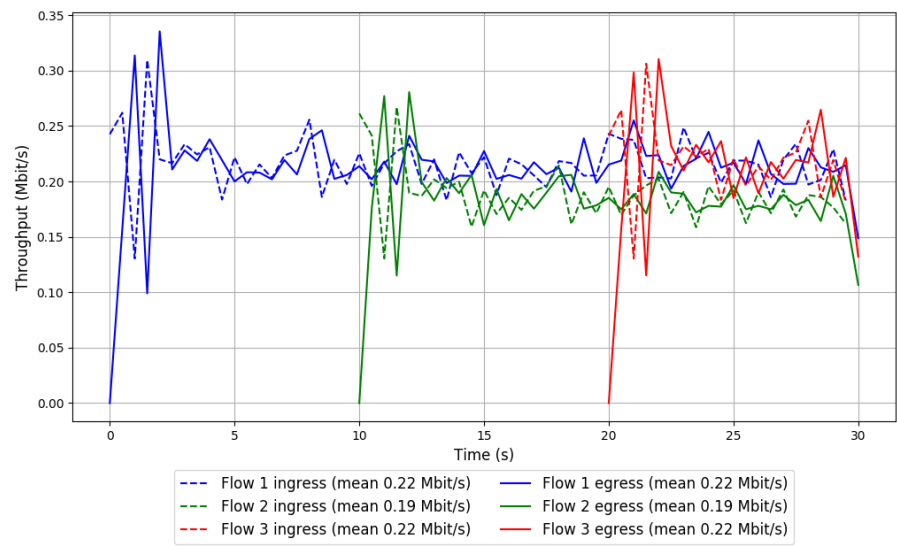
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.388 ms

Loss rate: 2.21%

Run 9: Report of SReAM — Data Link

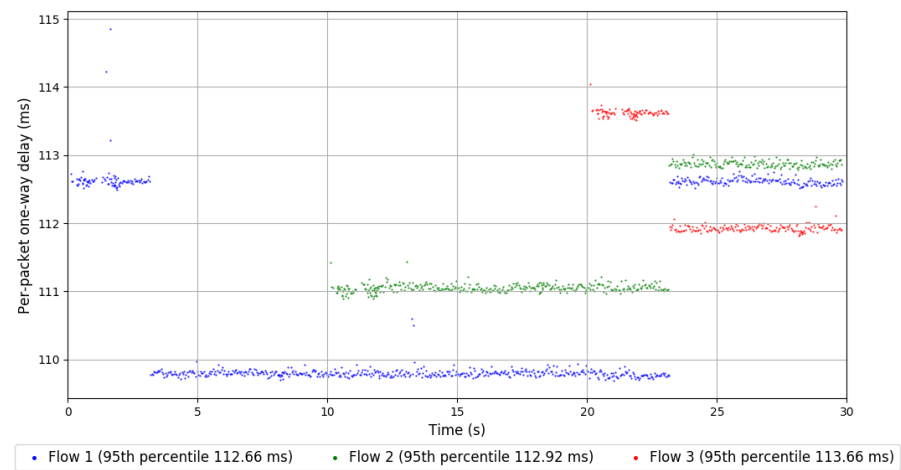
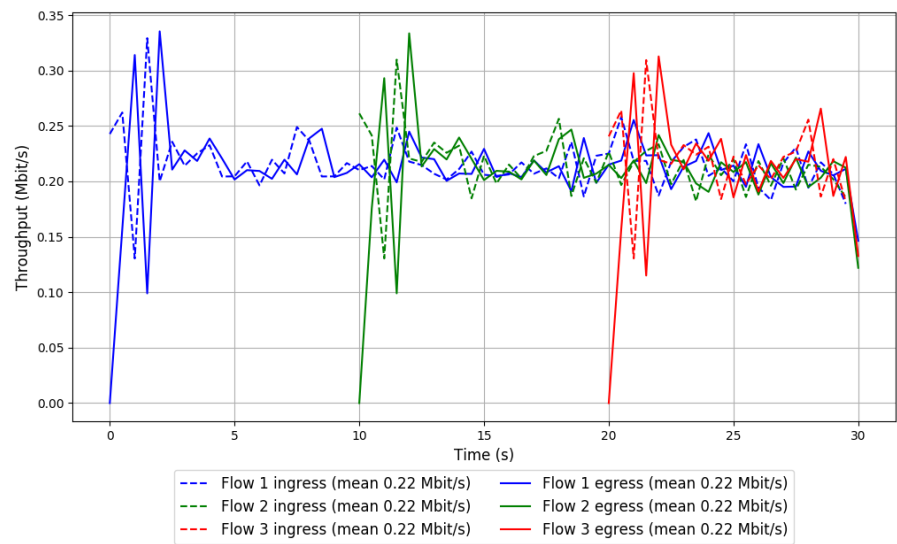


Run 10: Statistics of SReAM

Start at: 2018-06-05 23:13:34
End at: 2018-06-05 23:14:04
Local clock offset: -0.057 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 113.580 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.661 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.918 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.658 ms
Loss rate: 2.21%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-05 19:27:54

End at: 2018-06-05 19:28:24

Local clock offset: 6.623 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-06 00:50:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 119.483 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 121.258 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 119.251 ms

Loss rate: 2.89%

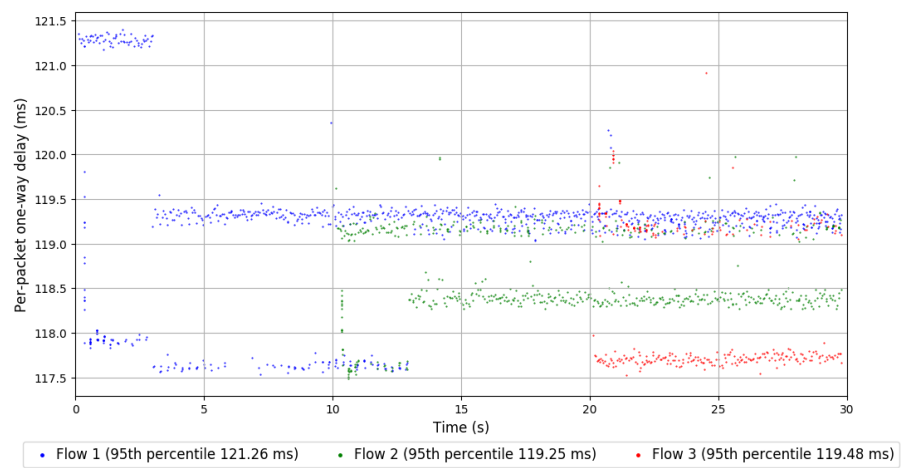
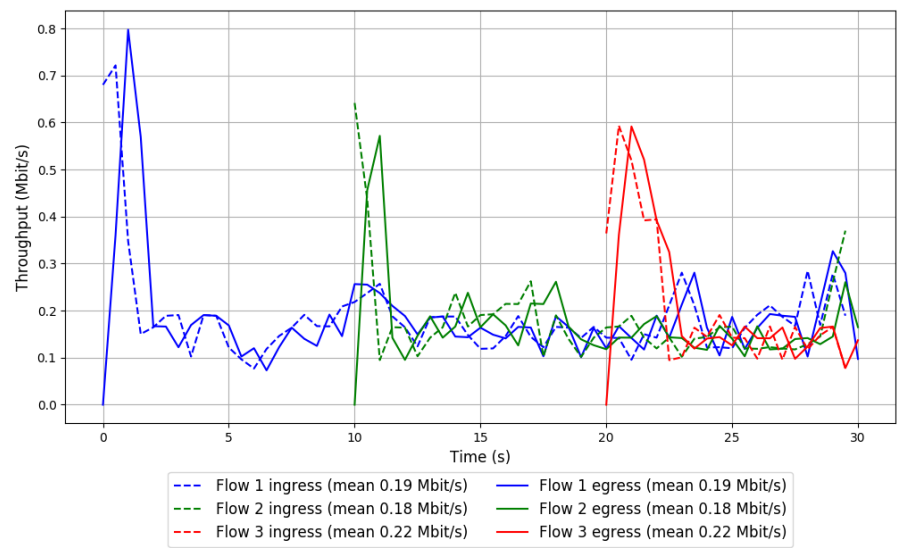
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 119.482 ms

Loss rate: 0.70%

Run 1: Report of Sprout — Data Link

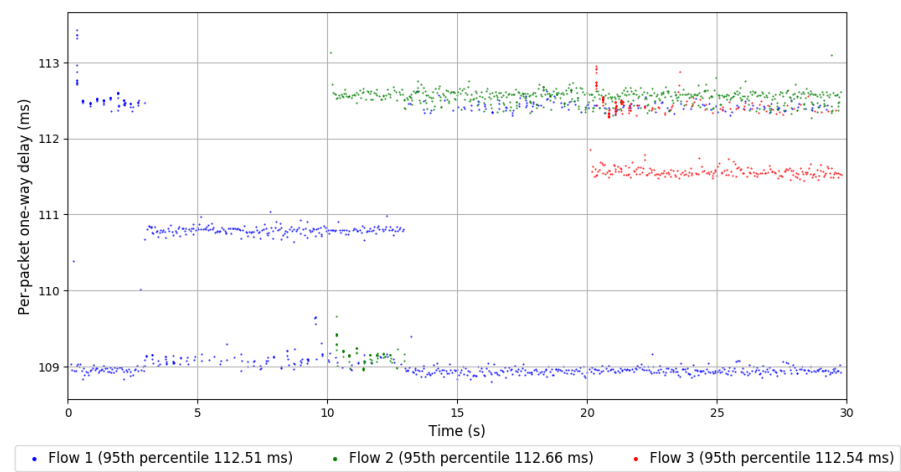
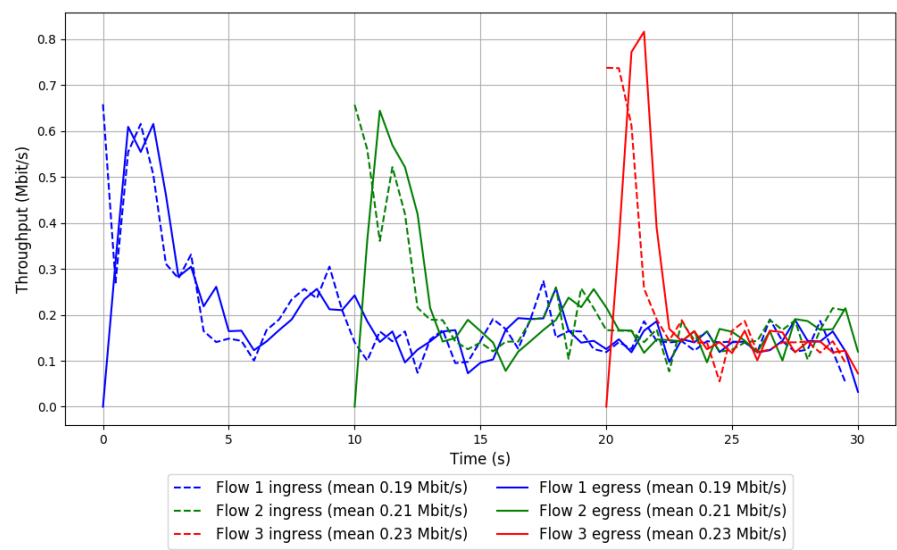


Run 2: Statistics of Sprout

Start at: 2018-06-05 19:52:14
End at: 2018-06-05 19:52:44
Local clock offset: -0.119 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 112.625 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.511 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.659 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 112.541 ms
Loss rate: 1.51%

Run 2: Report of Sprout — Data Link

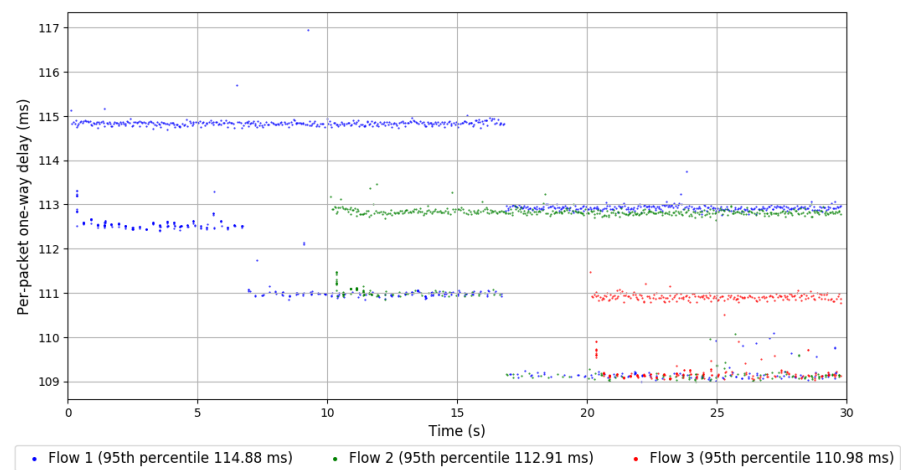
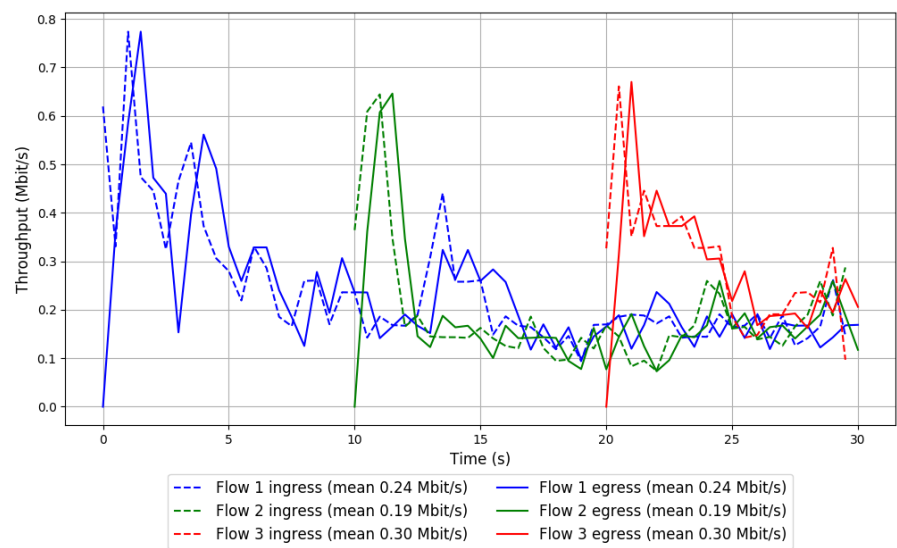


Run 3: Statistics of Sprout

Start at: 2018-06-05 20:16:10
End at: 2018-06-05 20:16:40
Local clock offset: -0.023 ms
Remote clock offset: -0.032 ms

```
# Below is generated by plot.py at 2018-06-06 00:50:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 114.856 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 114.875 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.911 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 110.979 ms
Loss rate: 0.82%
```

Run 3: Report of Sprout — Data Link

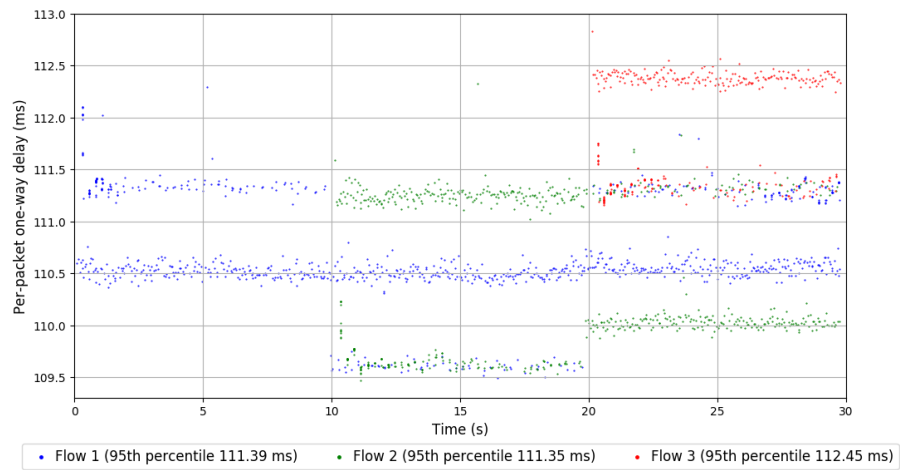
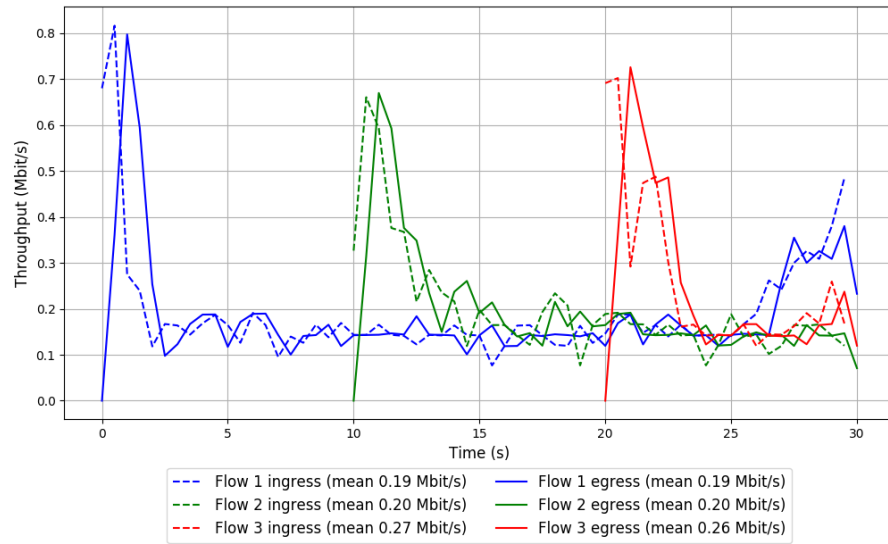


Run 4: Statistics of Sprout

Start at: 2018-06-05 20:40:17
End at: 2018-06-05 20:40:47
Local clock offset: -0.051 ms
Remote clock offset: 0.344 ms

```
# Below is generated by plot.py at 2018-06-06 00:50:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 112.380 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.389 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 111.354 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 112.452 ms
Loss rate: 3.13%
```

Run 4: Report of Sprout — Data Link

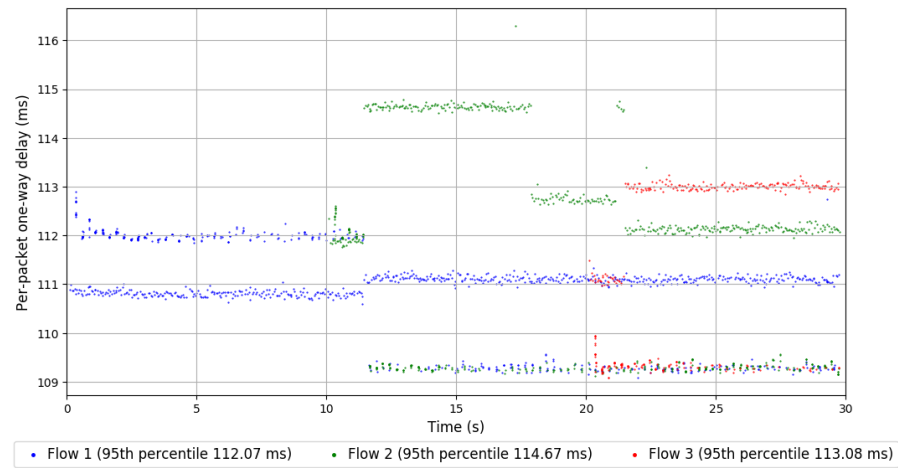
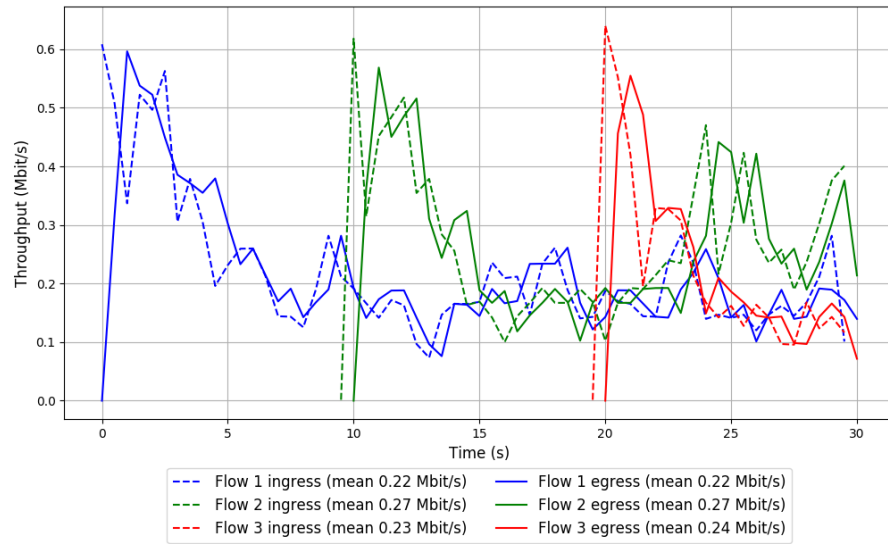


Run 5: Statistics of Sprout

Start at: 2018-06-05 21:04:15
End at: 2018-06-05 21:04:45
Local clock offset: 0.107 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 114.607 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.068 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 114.665 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 113.082 ms
Loss rate: 1.04%

Run 5: Report of Sprout — Data Link

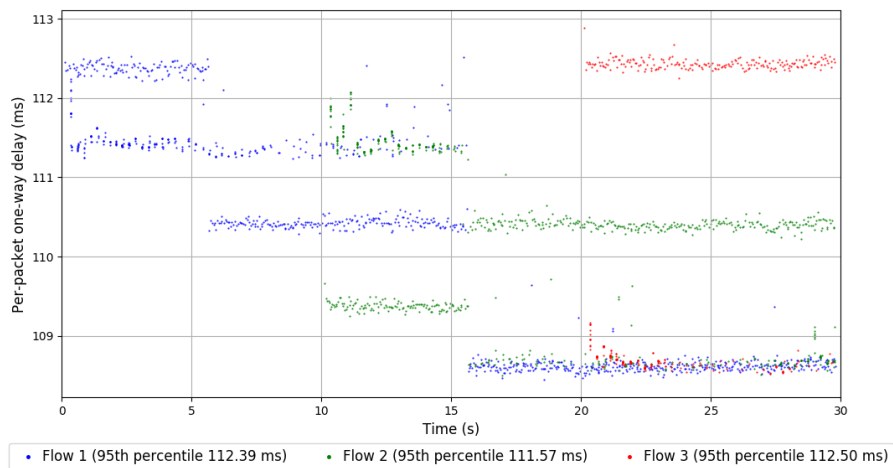
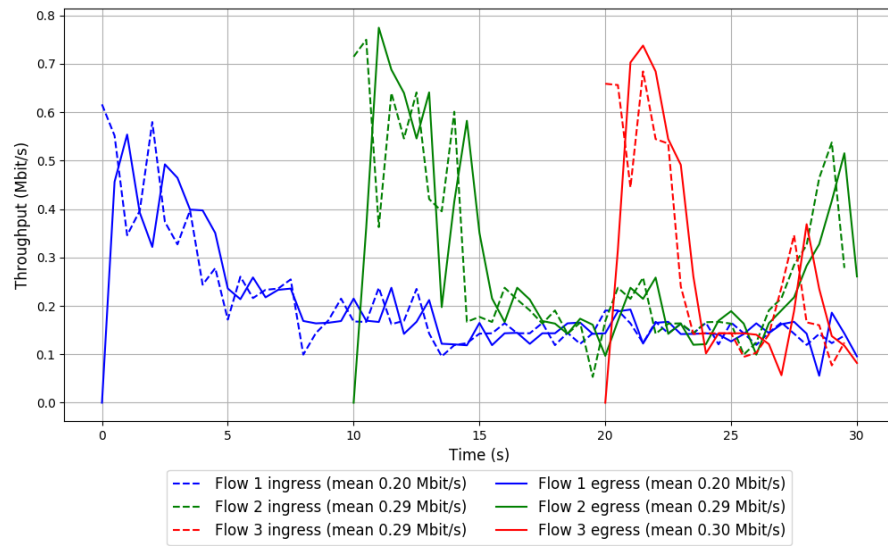


Run 6: Statistics of Sprout

Start at: 2018-06-05 21:28:31
End at: 2018-06-05 21:29:01
Local clock offset: -0.169 ms
Remote clock offset: 0.333 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 112.432 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 112.393 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 111.572 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 112.503 ms
Loss rate: 1.19%

Run 6: Report of Sprout — Data Link

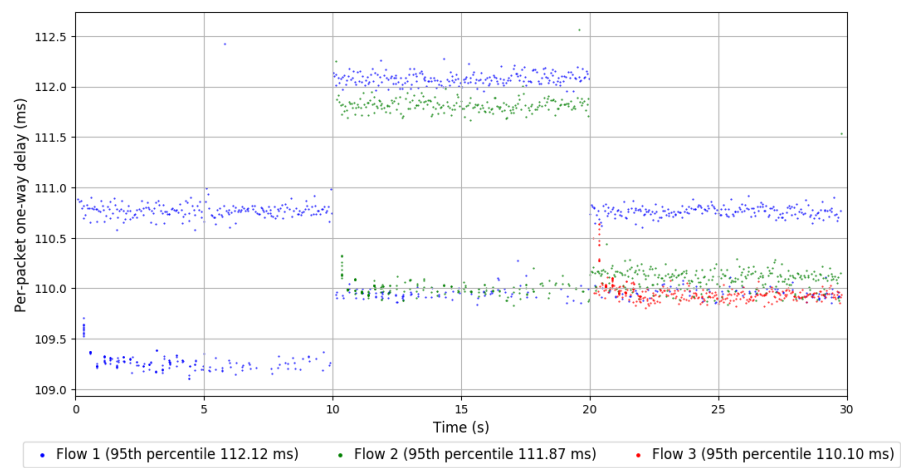
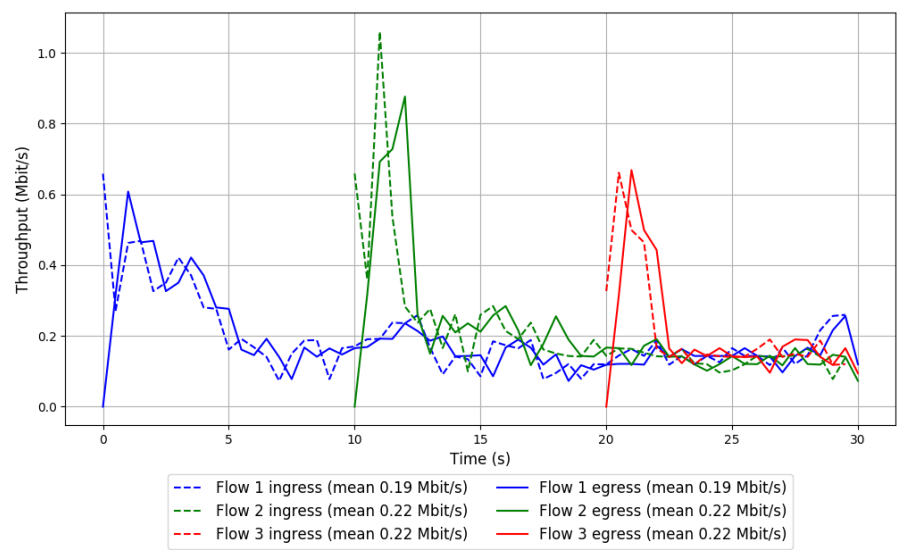


Run 7: Statistics of Sprout

Start at: 2018-06-05 21:52:27
End at: 2018-06-05 21:52:57
Local clock offset: 0.006 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 112.084 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.118 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.866 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.099 ms
Loss rate: 1.17%

Run 7: Report of Sprout — Data Link

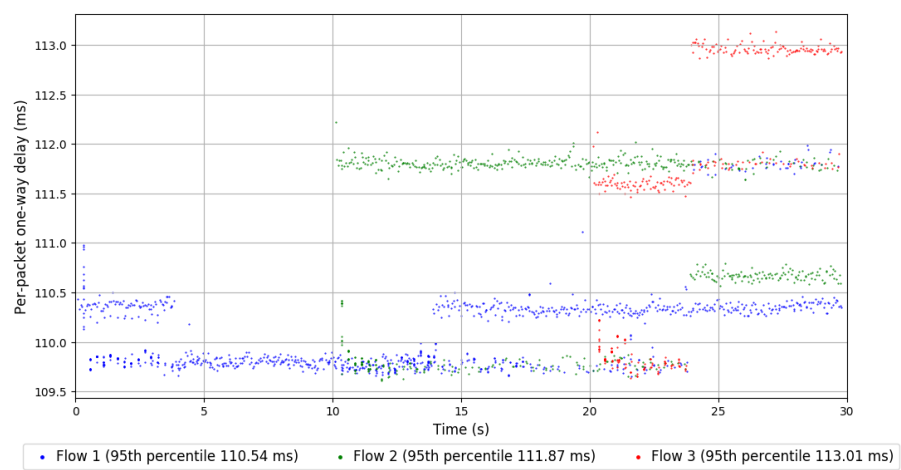
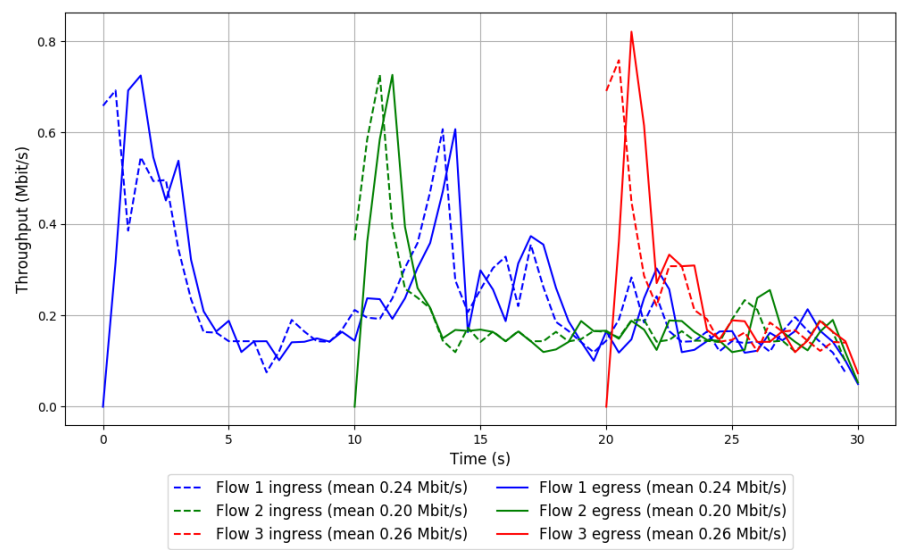


Run 8: Statistics of Sprout

Start at: 2018-06-05 22:16:23
End at: 2018-06-05 22:16:53
Local clock offset: -0.192 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 112.919 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 110.544 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 111.871 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 113.007 ms
Loss rate: 1.38%

Run 8: Report of Sprout — Data Link

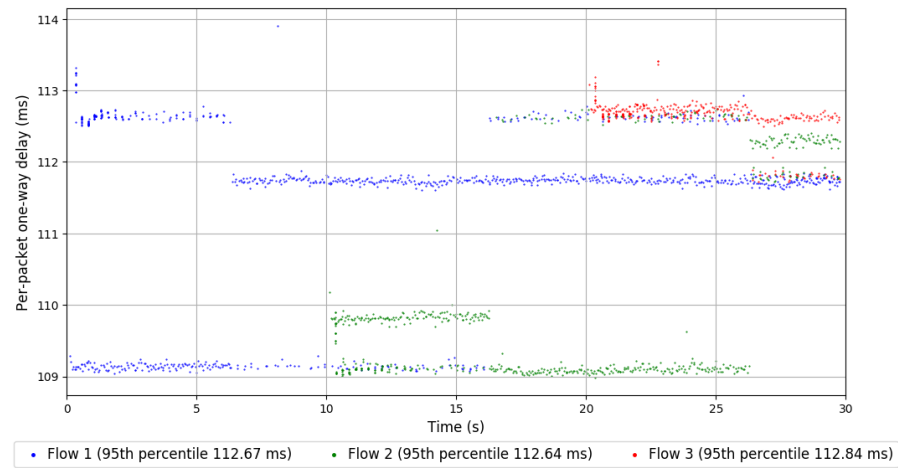
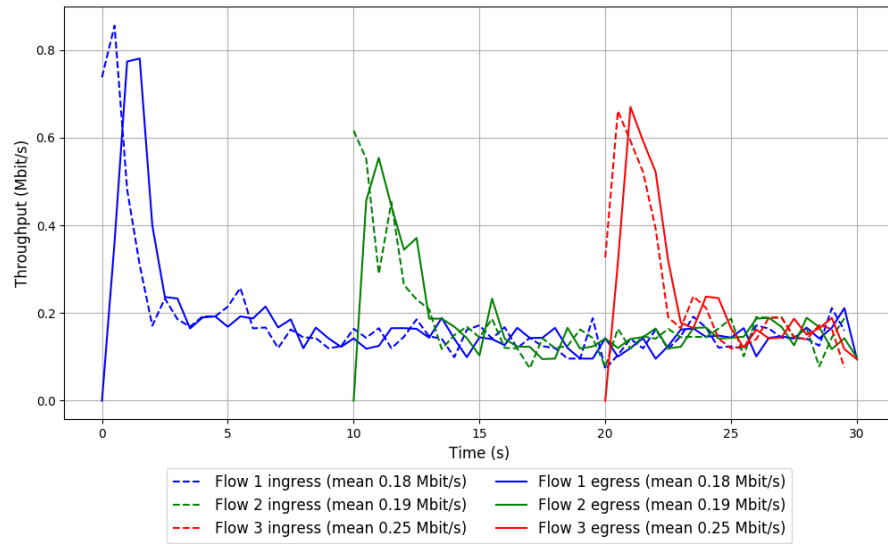


Run 9: Statistics of Sprout

Start at: 2018-06-05 22:40:01
End at: 2018-06-05 22:40:31
Local clock offset: -0.433 ms
Remote clock offset: -0.646 ms

Below is generated by plot.py at 2018-06-06 00:50:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 112.759 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 112.671 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.638 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 112.844 ms
Loss rate: 0.62%

Run 9: Report of Sprout — Data Link

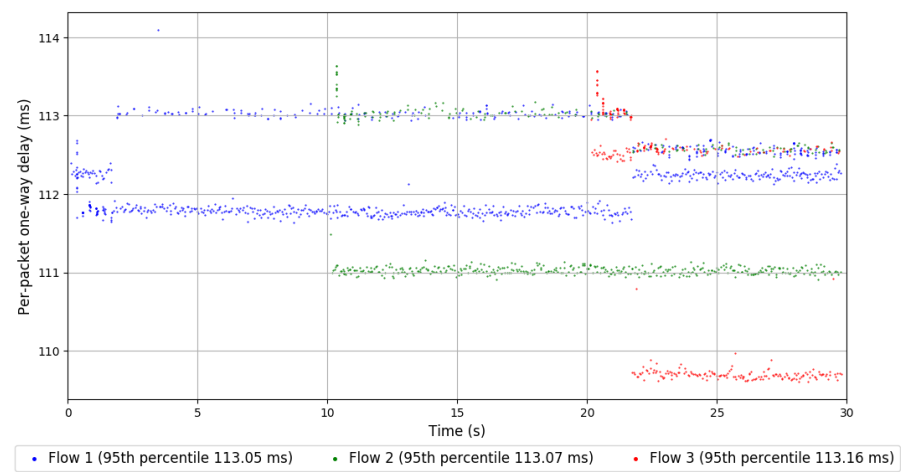
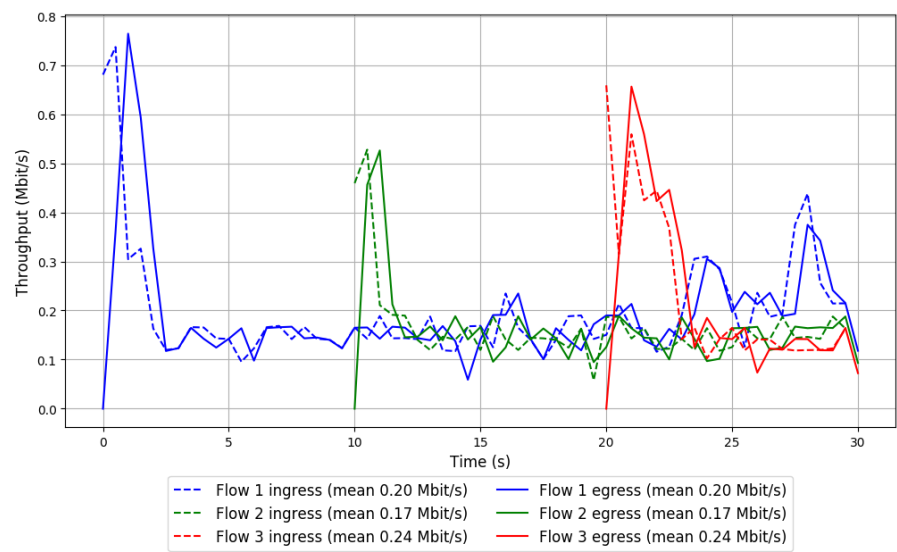


Run 10: Statistics of Sprout

Start at: 2018-06-05 23:04:05
End at: 2018-06-05 23:04:35
Local clock offset: -0.085 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-06-06 00:50:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 113.068 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 113.045 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 113.072 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 113.159 ms
Loss rate: 2.01%

Run 10: Report of Sprout — Data Link

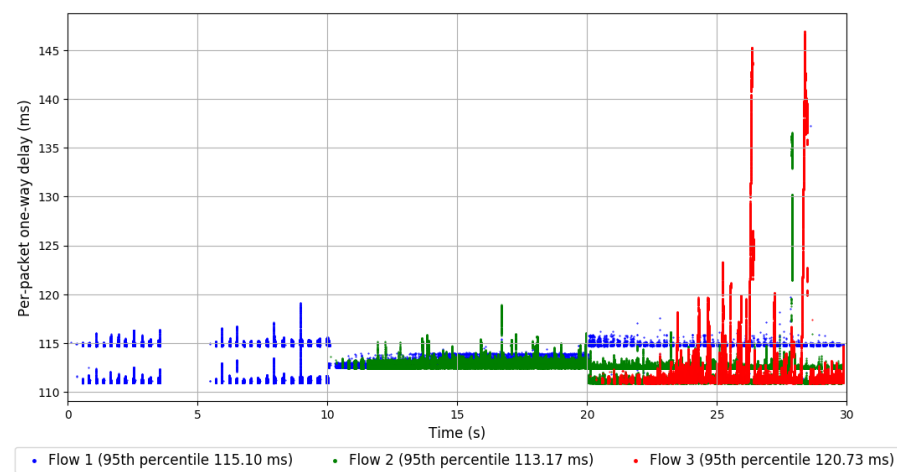
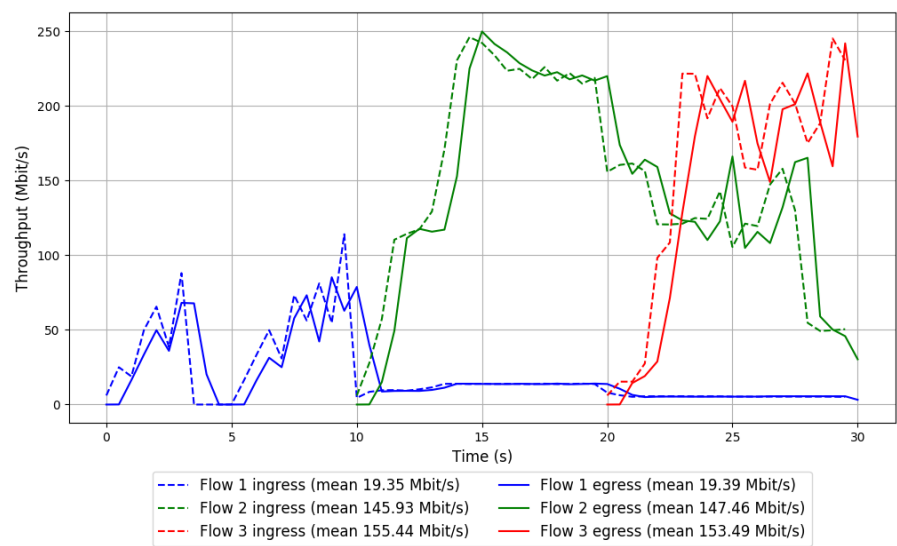


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-05 19:29:07
End at: 2018-06-05 19:29:37
Local clock offset: 0.169 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-06 00:51:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 167.15 Mbit/s
95th percentile per-packet one-way delay: 115.004 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 115.101 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 147.46 Mbit/s
95th percentile per-packet one-way delay: 113.174 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 153.49 Mbit/s
95th percentile per-packet one-way delay: 120.733 ms
Loss rate: 3.36%

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

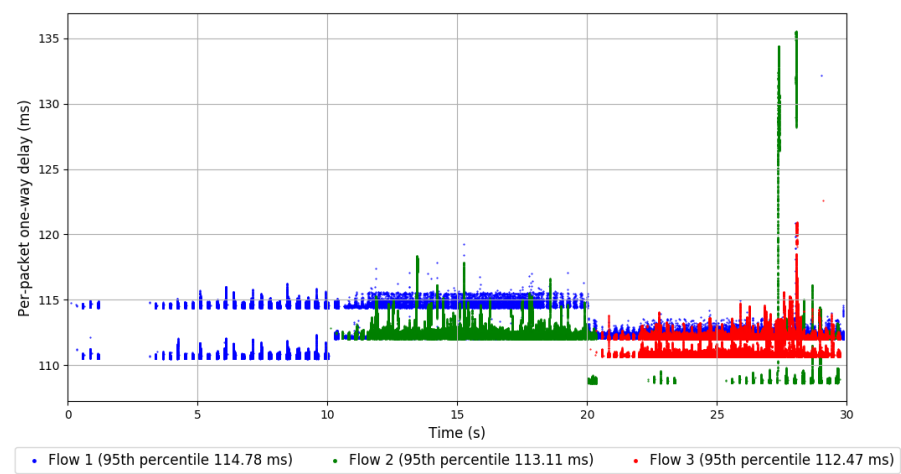
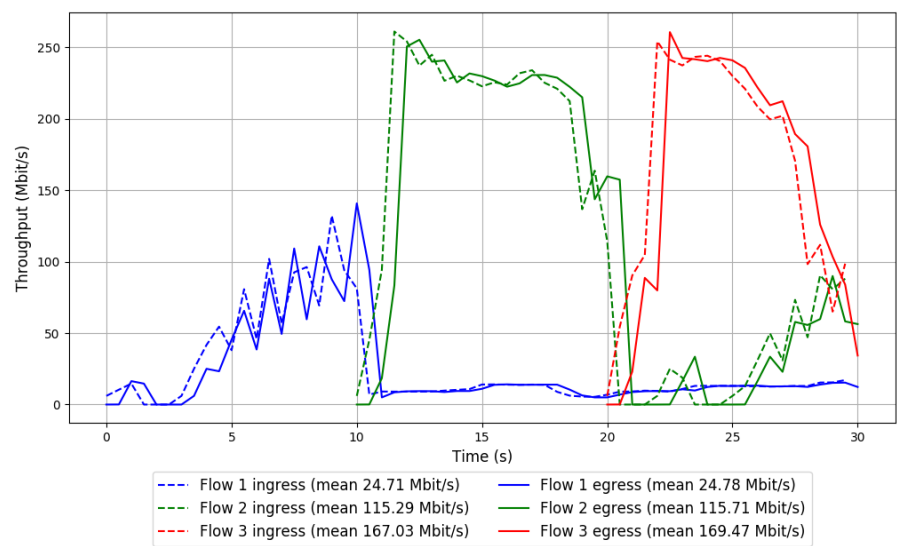


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-05 19:53:27
End at: 2018-06-05 19:53:57
Local clock offset: -0.27 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-06 00:51:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.79 Mbit/s
95th percentile per-packet one-way delay: 114.542 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 114.785 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 115.71 Mbit/s
95th percentile per-packet one-way delay: 113.114 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 169.47 Mbit/s
95th percentile per-packet one-way delay: 112.472 ms
Loss rate: 1.94%

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

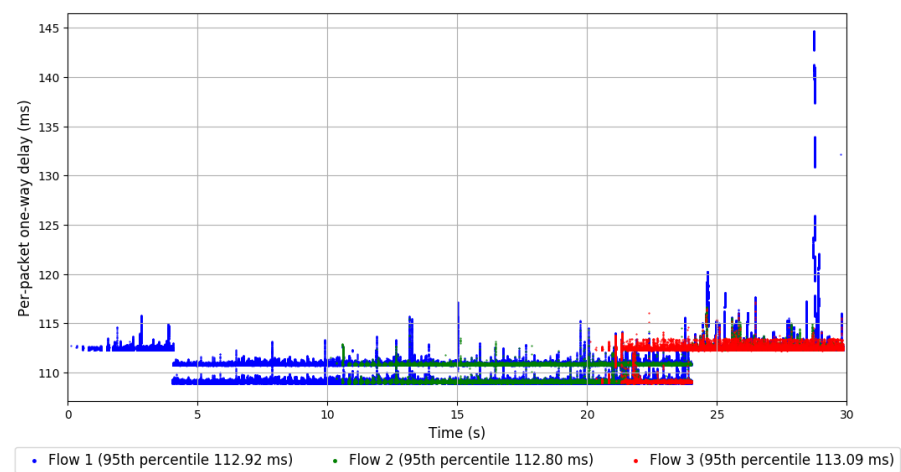
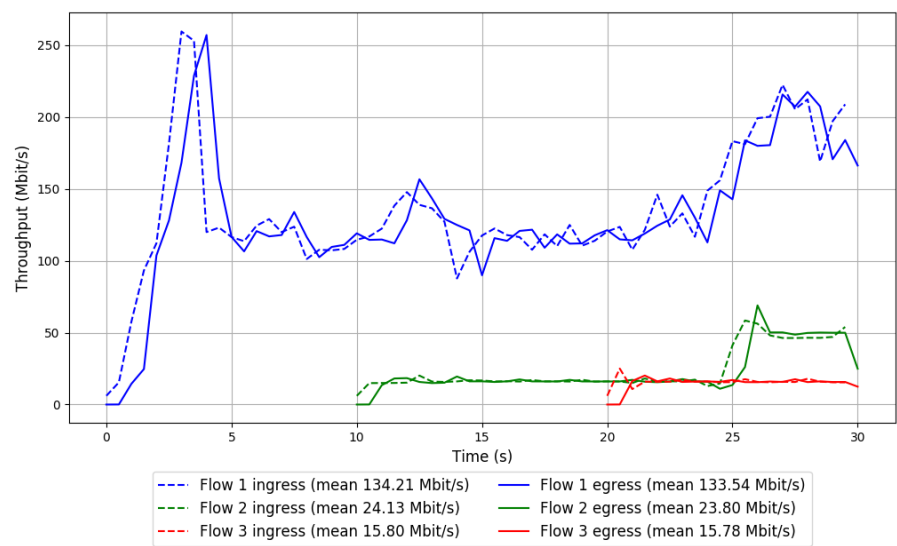


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-05 20:17:23
End at: 2018-06-05 20:17:53
Local clock offset: 0.035 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-06 00:51:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 154.41 Mbit/s
95th percentile per-packet one-way delay: 112.881 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 133.54 Mbit/s
95th percentile per-packet one-way delay: 112.924 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 23.80 Mbit/s
95th percentile per-packet one-way delay: 112.803 ms
Loss rate: 3.01%
-- Flow 3:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 113.094 ms
Loss rate: 2.35%

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

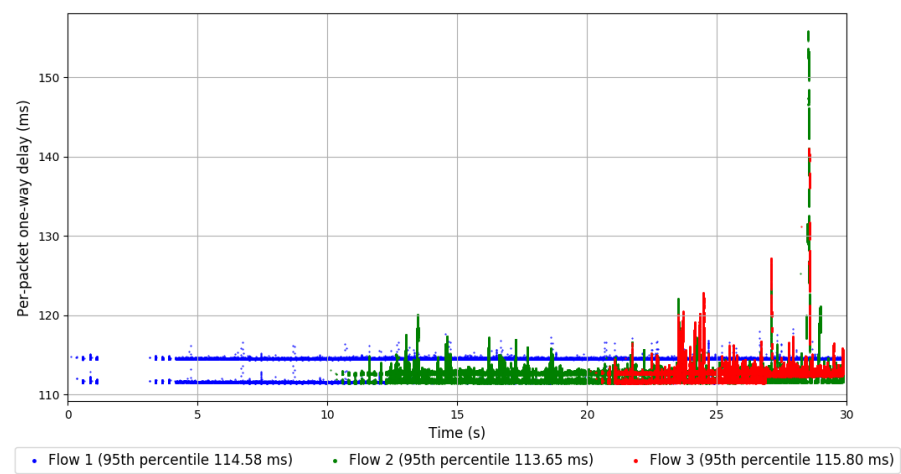
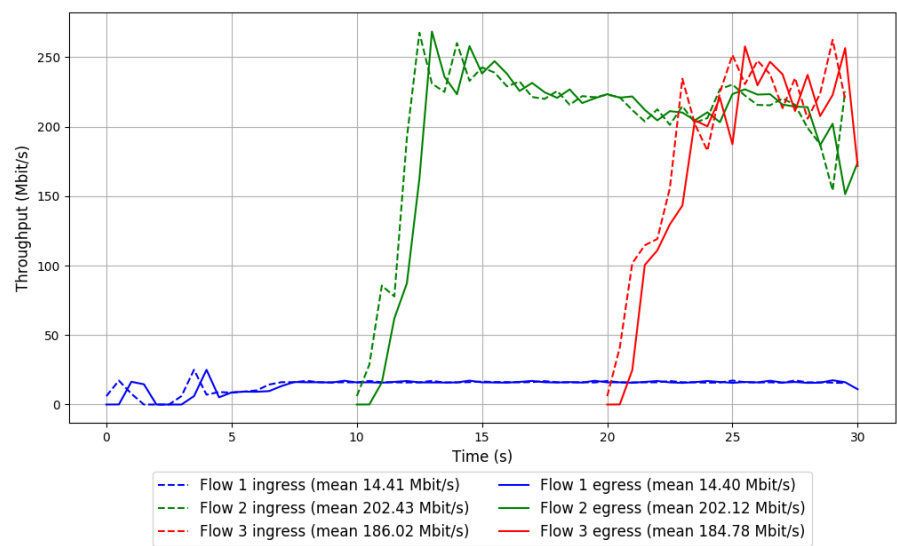


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-05 20:41:30
End at: 2018-06-05 20:42:00
Local clock offset: -0.098 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-06 00:53:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 209.09 Mbit/s
95th percentile per-packet one-way delay: 114.539 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 14.40 Mbit/s
95th percentile per-packet one-way delay: 114.579 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 202.12 Mbit/s
95th percentile per-packet one-way delay: 113.651 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 184.78 Mbit/s
95th percentile per-packet one-way delay: 115.804 ms
Loss rate: 2.92%

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

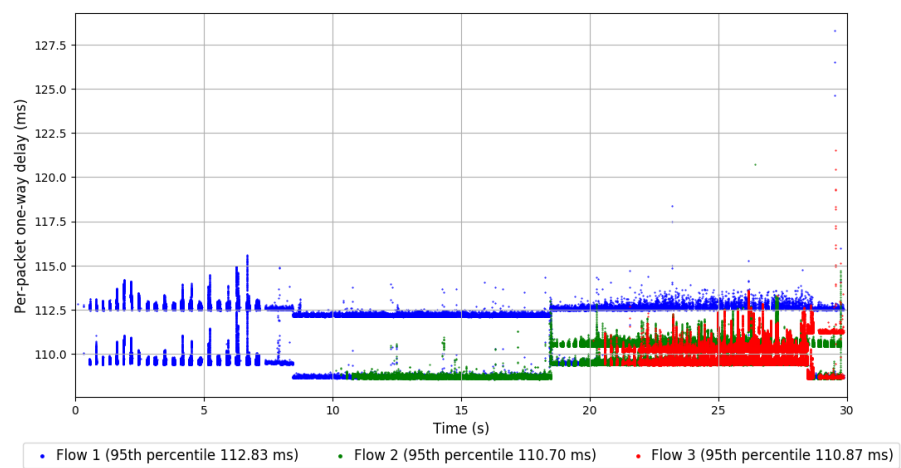
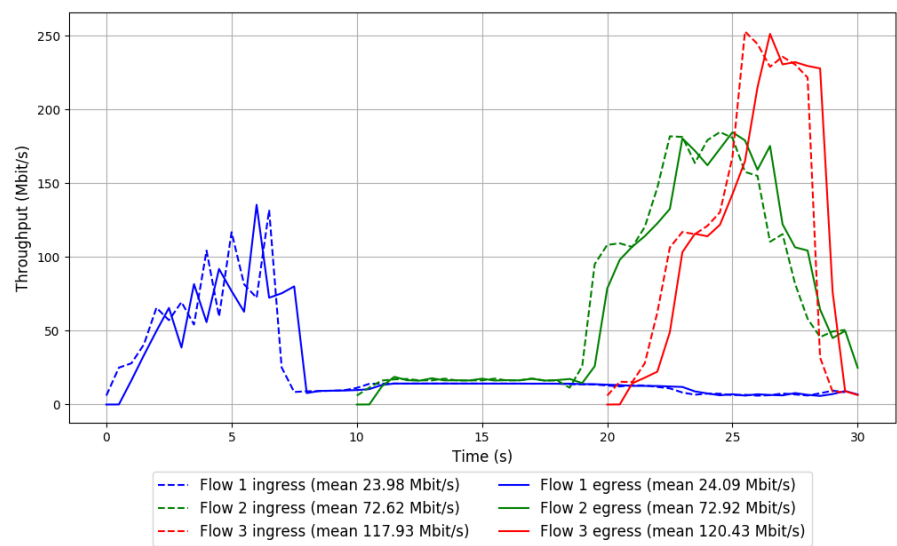


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-05 21:05:28
End at: 2018-06-05 21:05:58
Local clock offset: -0.293 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-06 00:53:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 111.61 Mbit/s
95th percentile per-packet one-way delay: 112.628 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 112.832 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 72.92 Mbit/s
95th percentile per-packet one-way delay: 110.705 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 120.43 Mbit/s
95th percentile per-packet one-way delay: 110.869 ms
Loss rate: 0.17%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-05 21:29:44

End at: 2018-06-05 21:30:14

Local clock offset: -0.036 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-06 00:53:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.71 Mbit/s

95th percentile per-packet one-way delay: 112.315 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 101.48 Mbit/s

95th percentile per-packet one-way delay: 112.703 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 111.926 ms

Loss rate: 0.98%

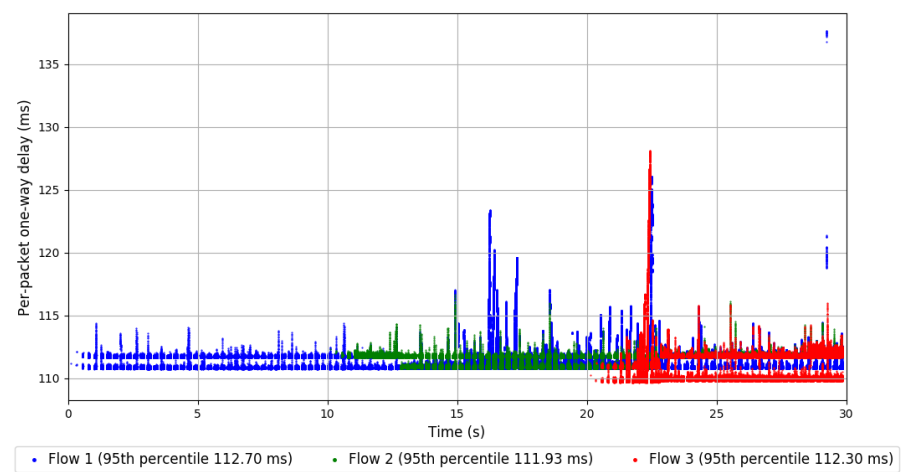
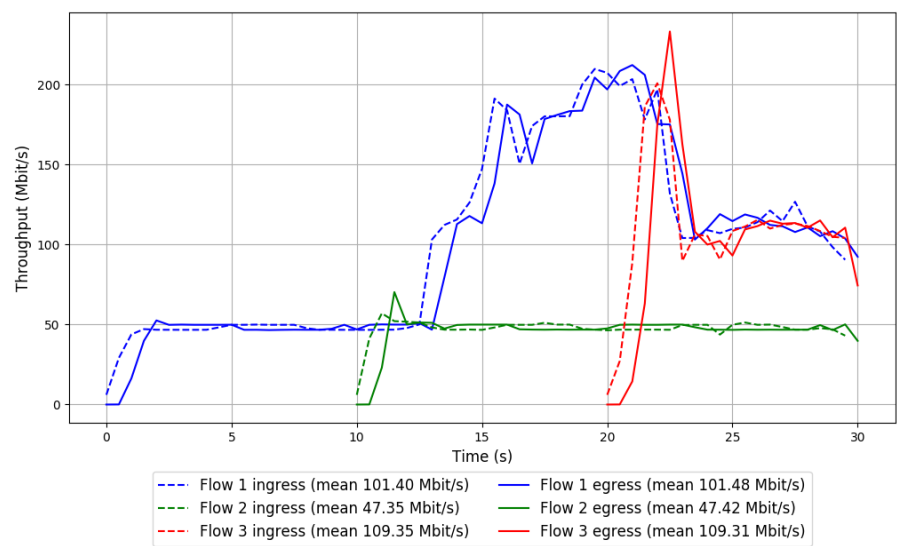
-- Flow 3:

Average throughput: 109.31 Mbit/s

95th percentile per-packet one-way delay: 112.295 ms

Loss rate: 2.25%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-05 21:53:40

End at: 2018-06-05 21:54:10

Local clock offset: -0.272 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-06-06 00:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.12 Mbit/s

95th percentile per-packet one-way delay: 114.087 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 113.230 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 138.74 Mbit/s

95th percentile per-packet one-way delay: 114.258 ms

Loss rate: 0.05%

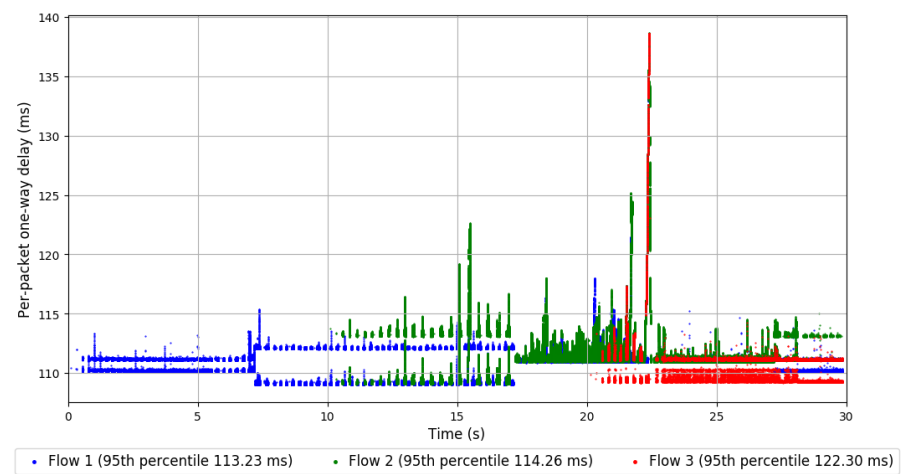
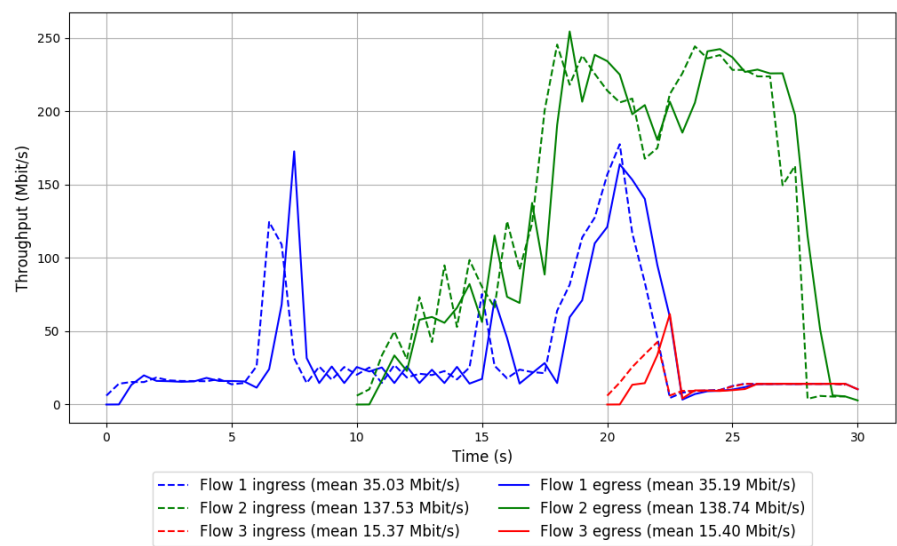
-- Flow 3:

Average throughput: 15.40 Mbit/s

95th percentile per-packet one-way delay: 122.301 ms

Loss rate: 2.04%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-05 22:17:36

End at: 2018-06-05 22:18:06

Local clock offset: -0.085 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-06-06 00:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.99 Mbit/s

95th percentile per-packet one-way delay: 111.450 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 111.425 ms

Loss rate: 2.88%

-- Flow 2:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 111.404 ms

Loss rate: 1.15%

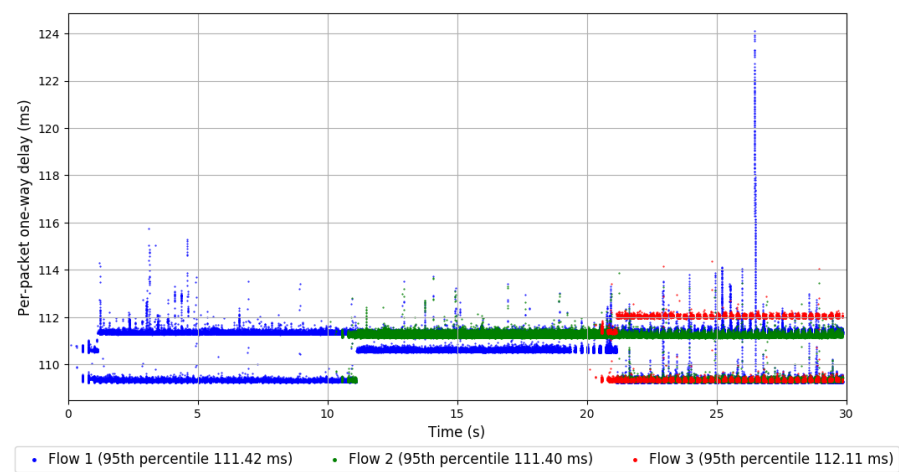
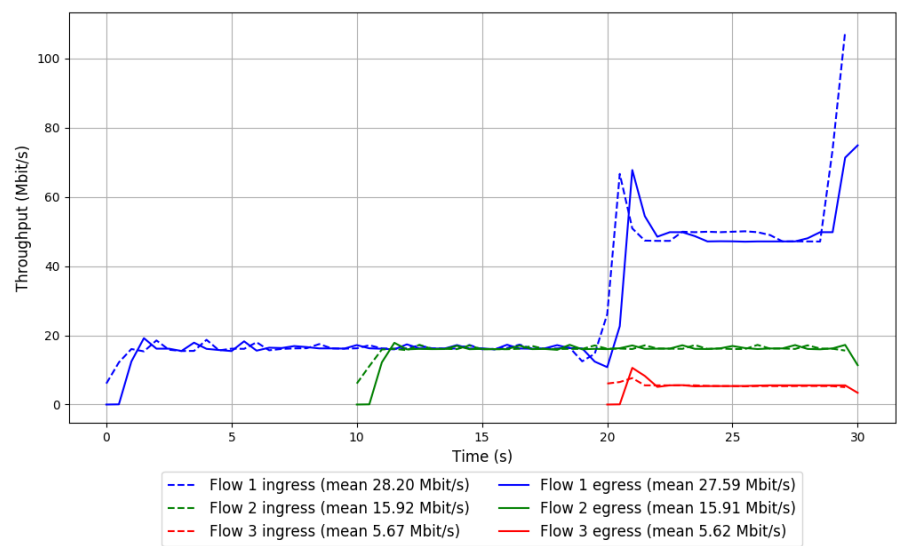
-- Flow 3:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 112.113 ms

Loss rate: 1.93%

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

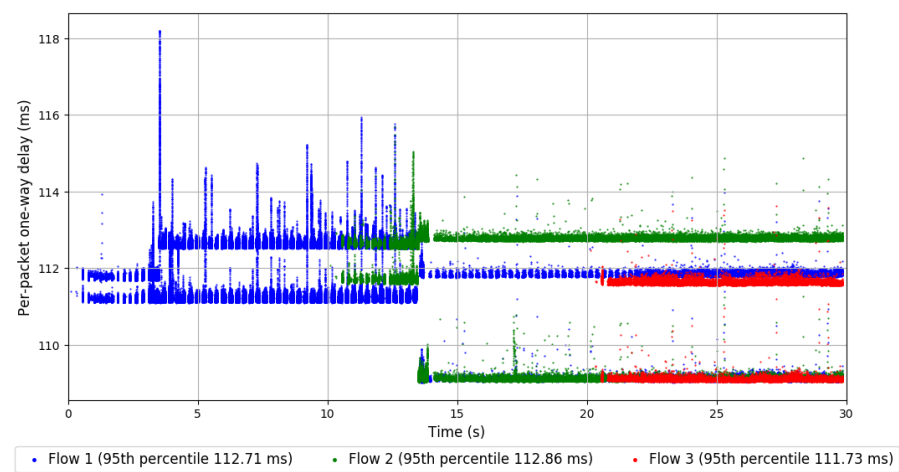
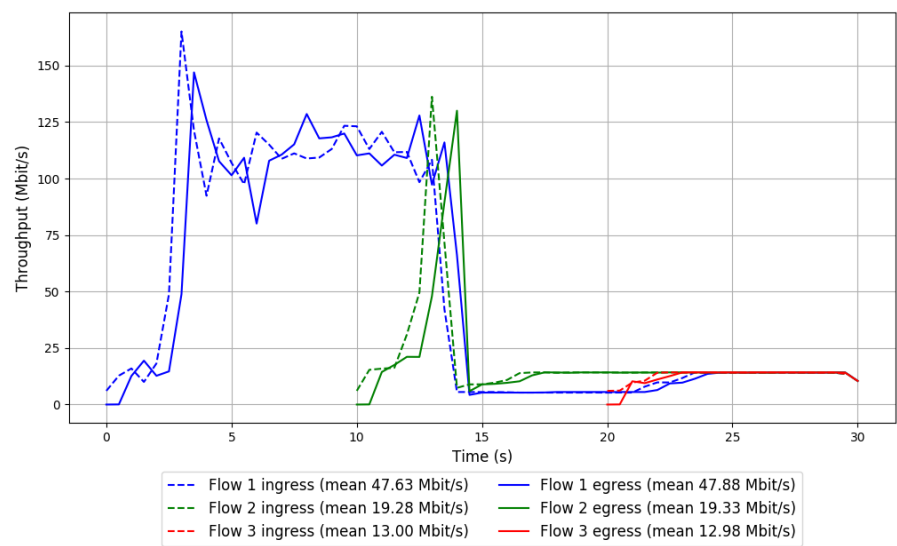


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-05 22:41:13
End at: 2018-06-05 22:41:43
Local clock offset: -0.33 ms
Remote clock offset: -0.656 ms

Below is generated by plot.py at 2018-06-06 00:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.96 Mbit/s
95th percentile per-packet one-way delay: 112.794 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 47.88 Mbit/s
95th percentile per-packet one-way delay: 112.712 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 19.33 Mbit/s
95th percentile per-packet one-way delay: 112.861 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 111.731 ms
Loss rate: 2.43%

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

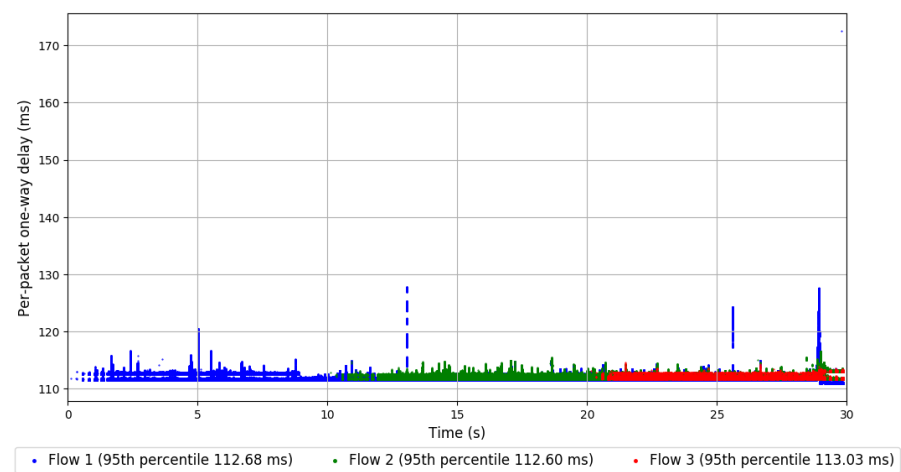
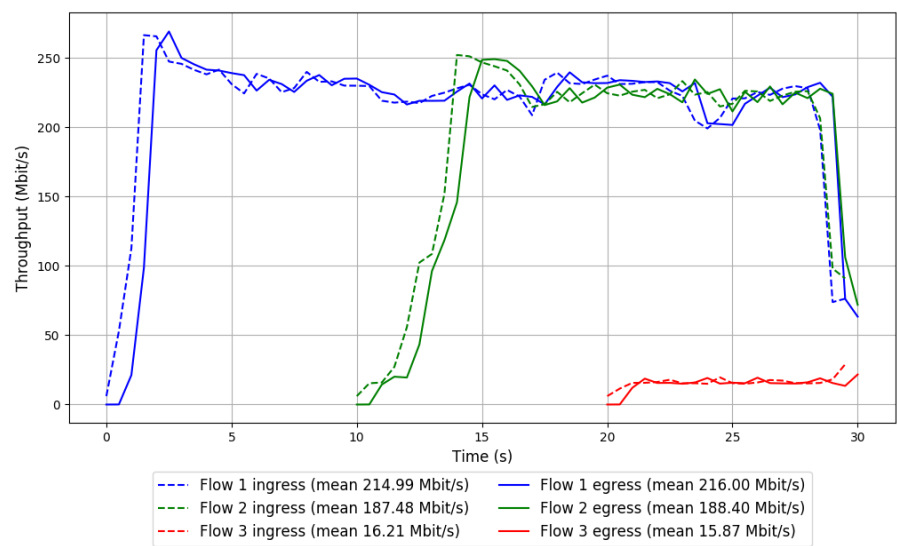


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-05 23:05:18
End at: 2018-06-05 23:05:48
Local clock offset: 0.076 ms
Remote clock offset: -0.319 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.06 Mbit/s
95th percentile per-packet one-way delay: 112.672 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 216.00 Mbit/s
95th percentile per-packet one-way delay: 112.679 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 188.40 Mbit/s
95th percentile per-packet one-way delay: 112.598 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 15.87 Mbit/s
95th percentile per-packet one-way delay: 113.032 ms
Loss rate: 4.34%

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

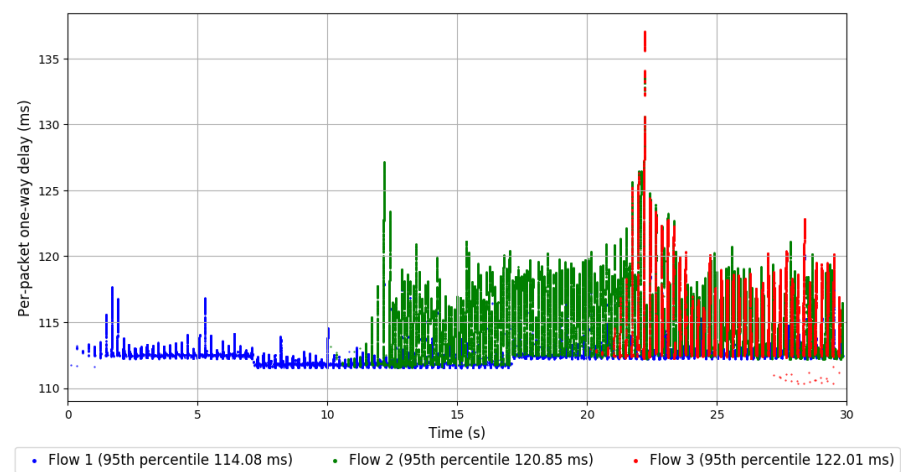
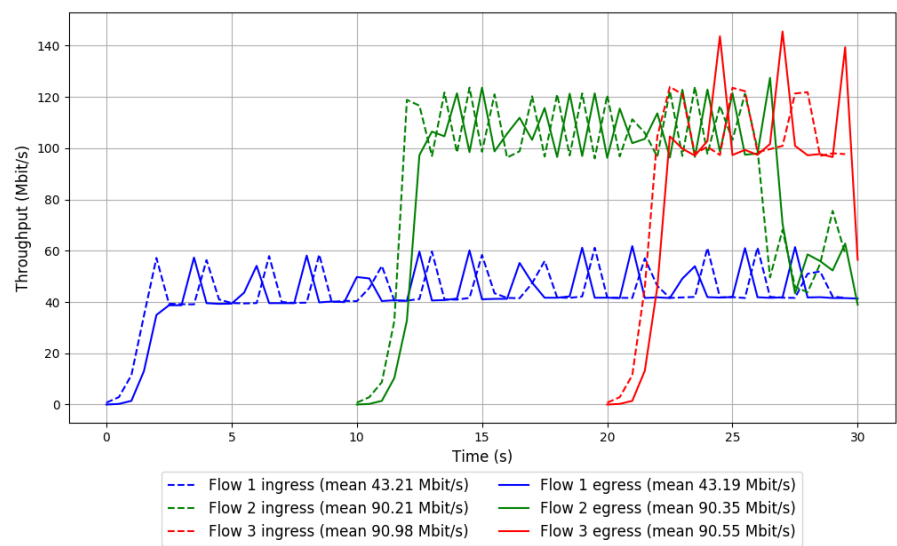


Run 1: Statistics of TCP Vegas

Start at: 2018-06-05 19:19:30
End at: 2018-06-05 19:20:00
Local clock offset: -0.061 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 132.30 Mbit/s
95th percentile per-packet one-way delay: 120.091 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 43.19 Mbit/s
95th percentile per-packet one-way delay: 114.080 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 90.35 Mbit/s
95th percentile per-packet one-way delay: 120.853 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 122.012 ms
Loss rate: 2.72%

Run 1: Report of TCP Vegas — Data Link

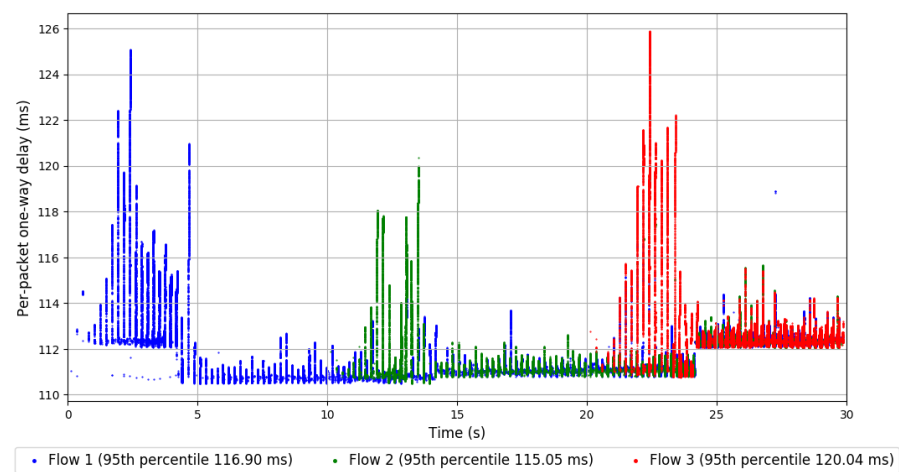
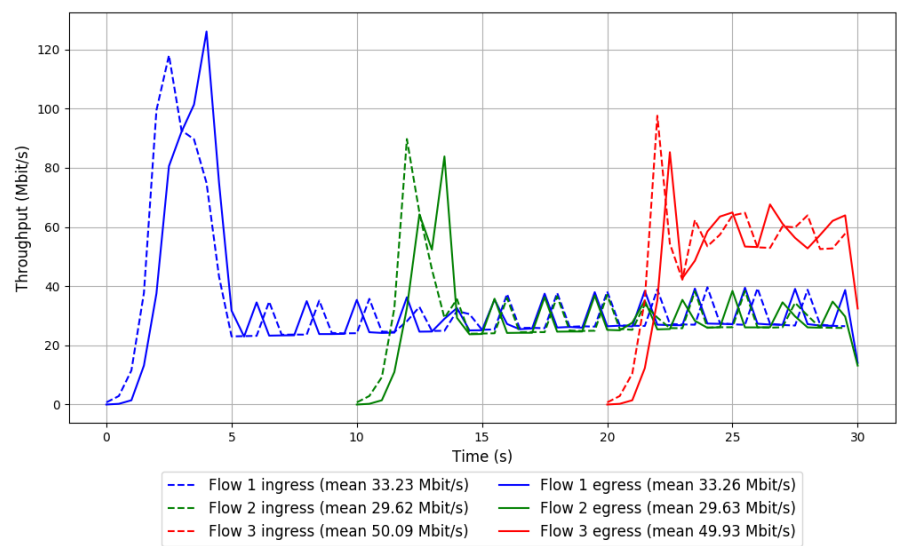


Run 2: Statistics of TCP Vegas

Start at: 2018-06-05 19:43:43
End at: 2018-06-05 19:44:13
Local clock offset: -0.226 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.22 Mbit/s
95th percentile per-packet one-way delay: 117.332 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 33.26 Mbit/s
95th percentile per-packet one-way delay: 116.898 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 115.045 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 49.93 Mbit/s
95th percentile per-packet one-way delay: 120.041 ms
Loss rate: 2.59%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-05 20:07:53

End at: 2018-06-05 20:08:23

Local clock offset: -0.286 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2018-06-06 01:01:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 119.288 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 21.77 Mbit/s

95th percentile per-packet one-way delay: 118.117 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 31.60 Mbit/s

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

Loss rate: 1.16%

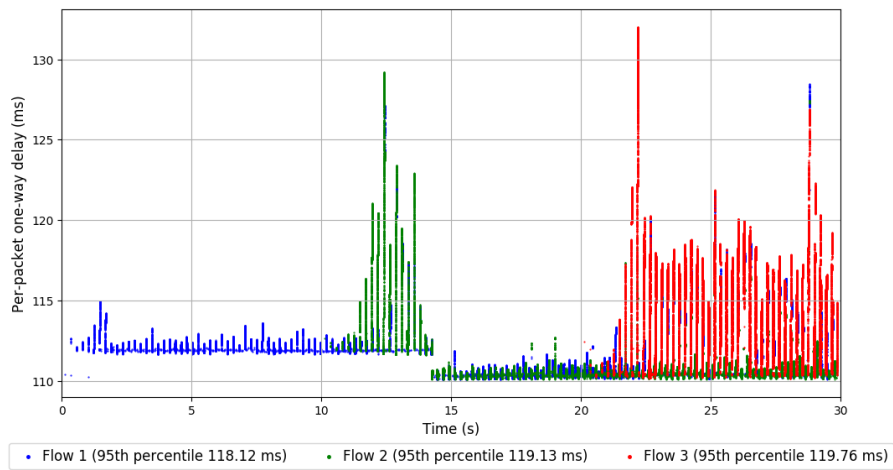
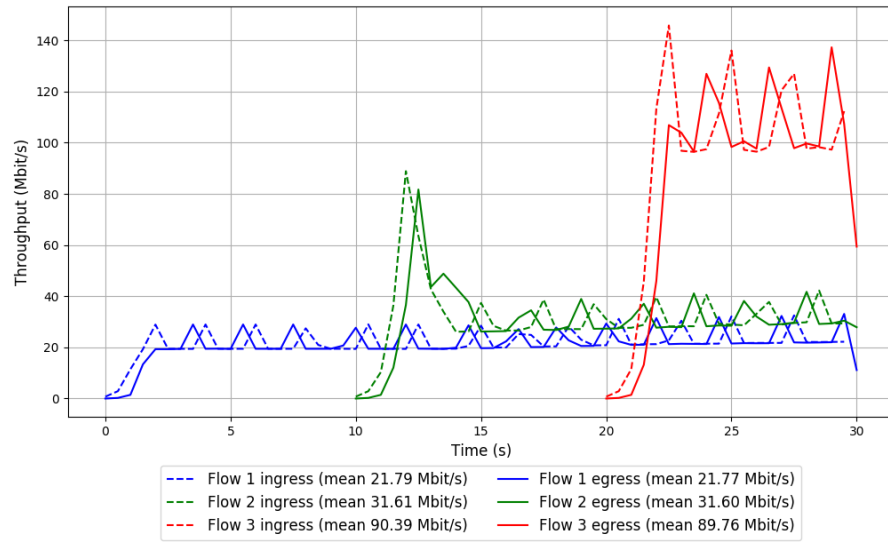
-- Flow 3:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 119.756 ms

Loss rate: 2.94%

Run 3: Report of TCP Vegas — Data Link

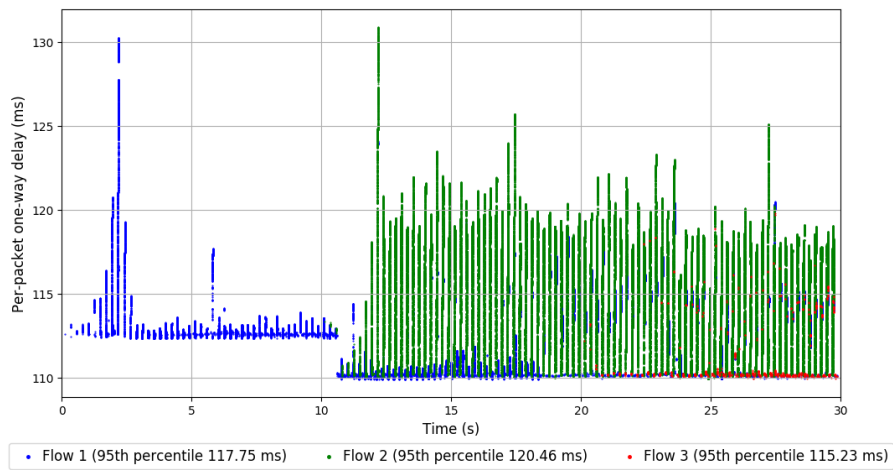
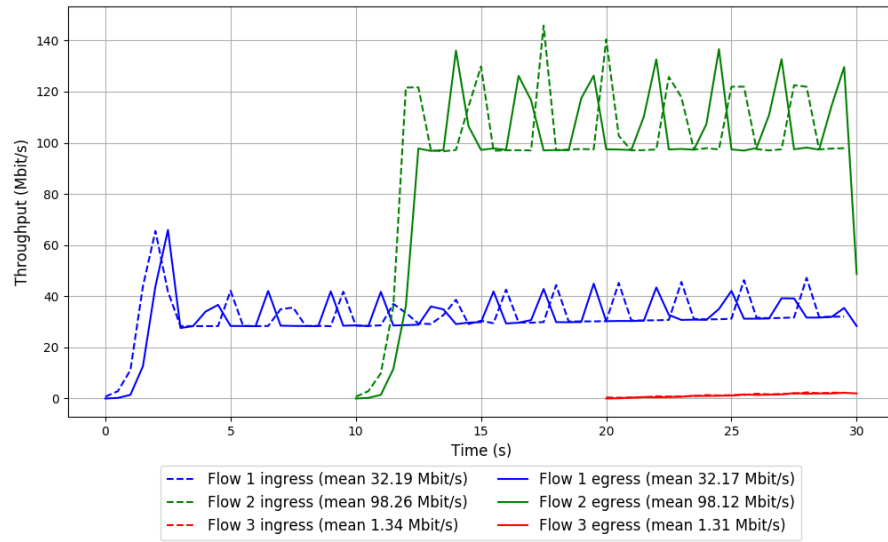


Run 4: Statistics of TCP Vegas

Start at: 2018-06-05 20:31:46
End at: 2018-06-05 20:32:16
Local clock offset: 0.097 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 120.088 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 117.748 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 98.12 Mbit/s
95th percentile per-packet one-way delay: 120.460 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 115.231 ms
Loss rate: 4.67%

Run 4: Report of TCP Vegas — Data Link

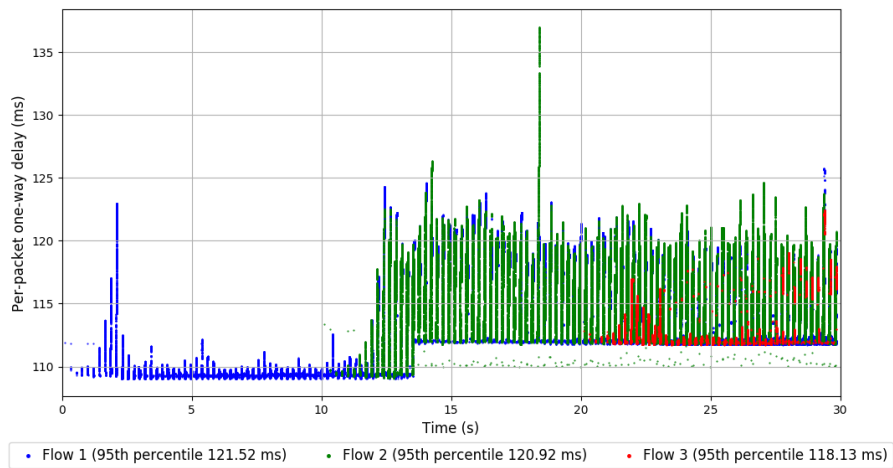
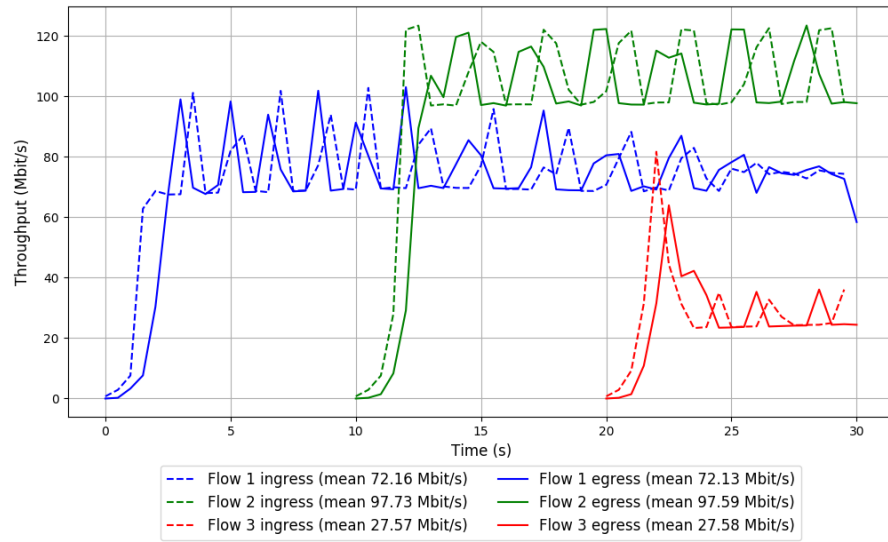


Run 5: Statistics of TCP Vegas

Start at: 2018-06-05 20:56:03
End at: 2018-06-05 20:56:33
Local clock offset: 0.116 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 145.84 Mbit/s
95th percentile per-packet one-way delay: 121.204 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 72.13 Mbit/s
95th percentile per-packet one-way delay: 121.524 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 97.59 Mbit/s
95th percentile per-packet one-way delay: 120.924 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 118.131 ms
Loss rate: 2.24%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-05 21:19:59

End at: 2018-06-05 21:20:29

Local clock offset: -0.11 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-06 01:01:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.70 Mbit/s

95th percentile per-packet one-way delay: 121.408 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 99.38 Mbit/s

95th percentile per-packet one-way delay: 119.112 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 123.898 ms

Loss rate: 0.71%

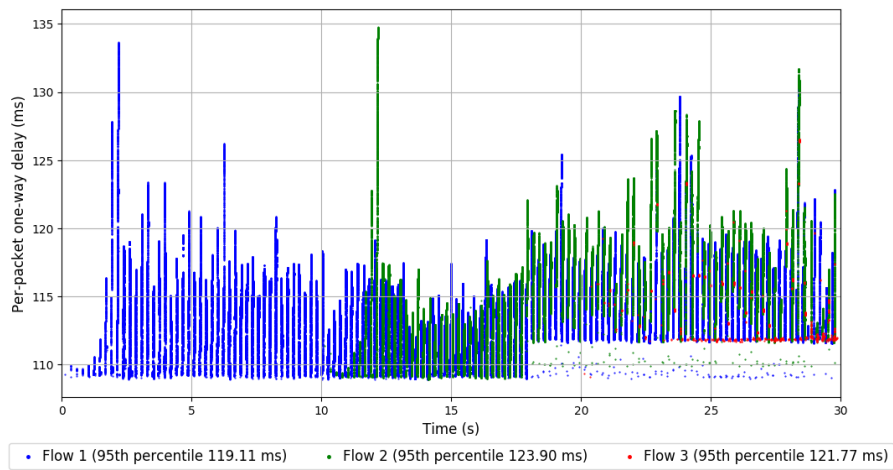
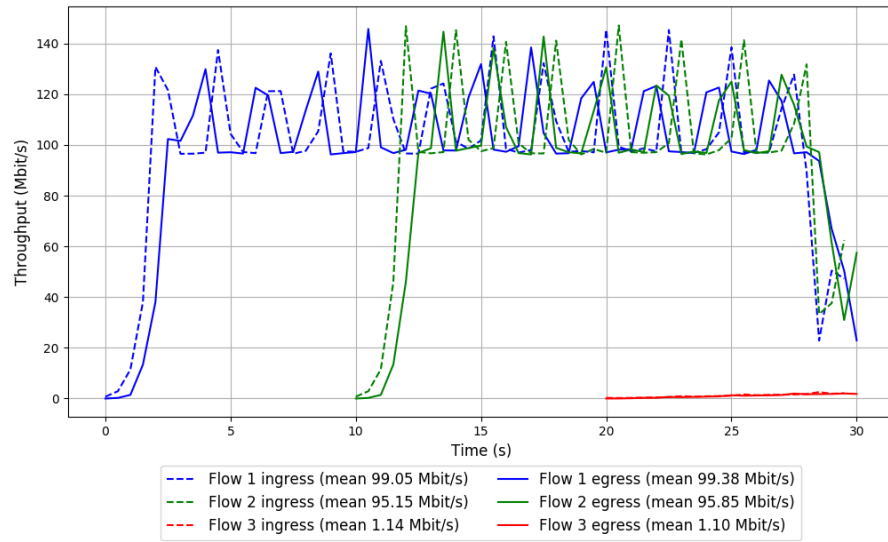
-- Flow 3:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 121.767 ms

Loss rate: 5.50%

Run 6: Report of TCP Vegas — Data Link

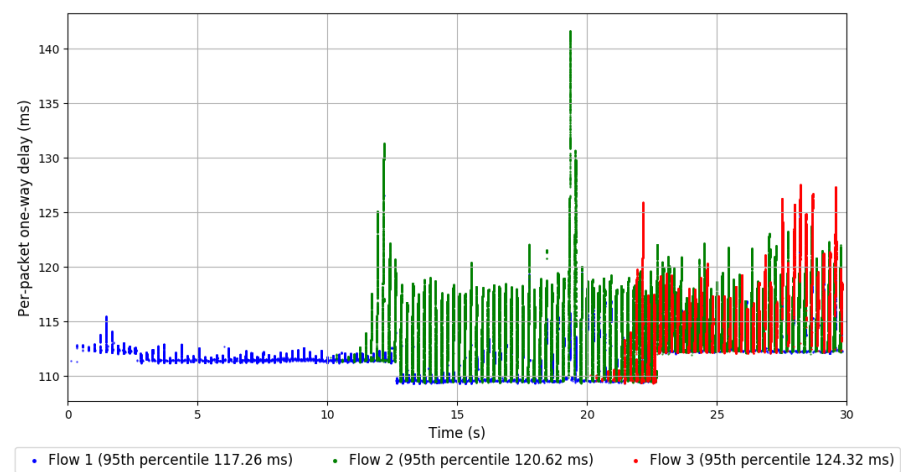
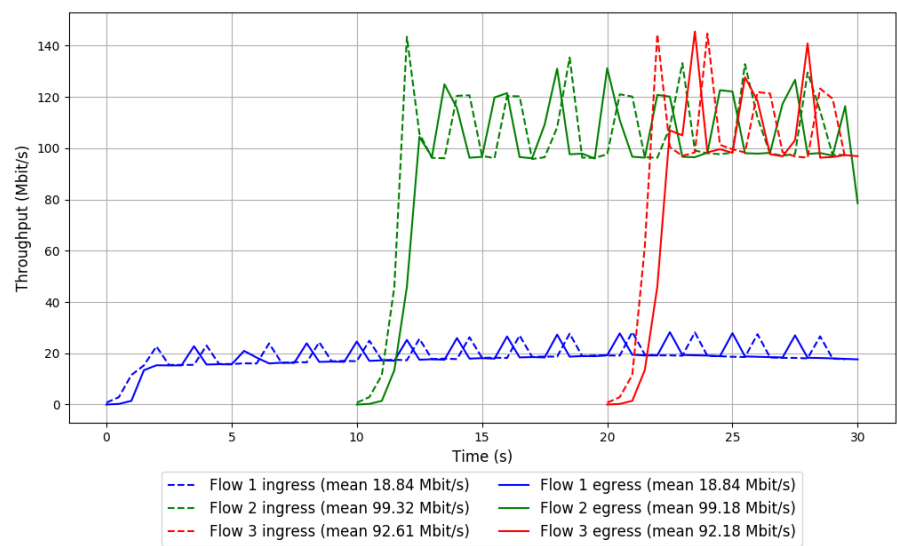


Run 7: Statistics of TCP Vegas

Start at: 2018-06-05 21:44:04
End at: 2018-06-05 21:44:34
Local clock offset: -0.082 ms
Remote clock offset: -0.436 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 114.45 Mbit/s
95th percentile per-packet one-way delay: 121.634 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 18.84 Mbit/s
95th percentile per-packet one-way delay: 117.262 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 99.18 Mbit/s
95th percentile per-packet one-way delay: 120.622 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 124.316 ms
Loss rate: 2.62%

Run 7: Report of TCP Vegas — Data Link

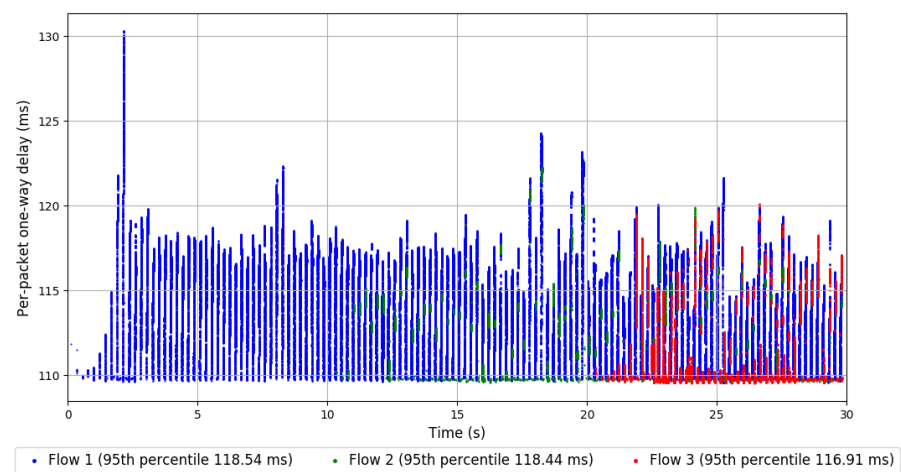
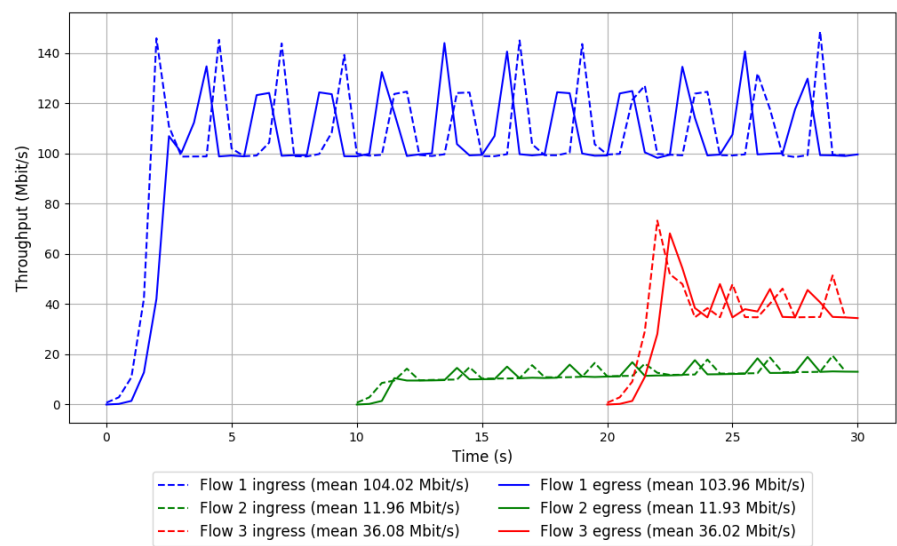


Run 8: Statistics of TCP Vegas

Start at: 2018-06-05 22:08:01
End at: 2018-06-05 22:08:31
Local clock offset: -0.206 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 123.44 Mbit/s
95th percentile per-packet one-way delay: 118.421 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 103.96 Mbit/s
95th percentile per-packet one-way delay: 118.536 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 11.93 Mbit/s
95th percentile per-packet one-way delay: 118.437 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 116.912 ms
Loss rate: 2.42%

Run 8: Report of TCP Vegas — Data Link

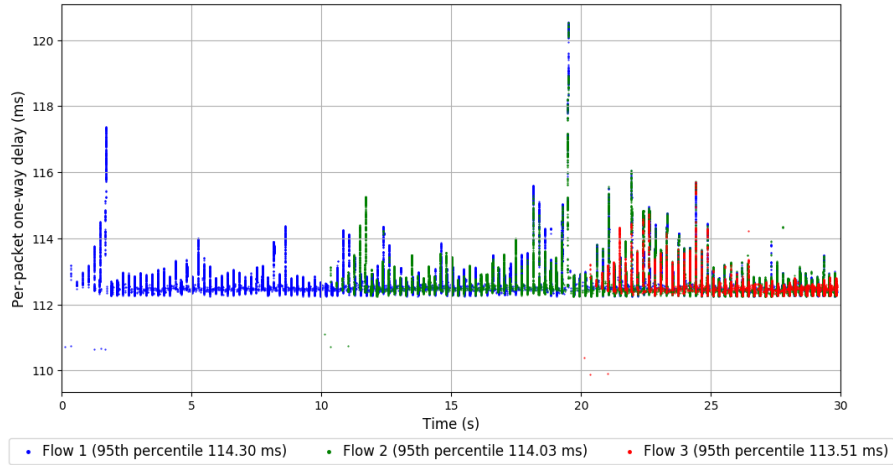
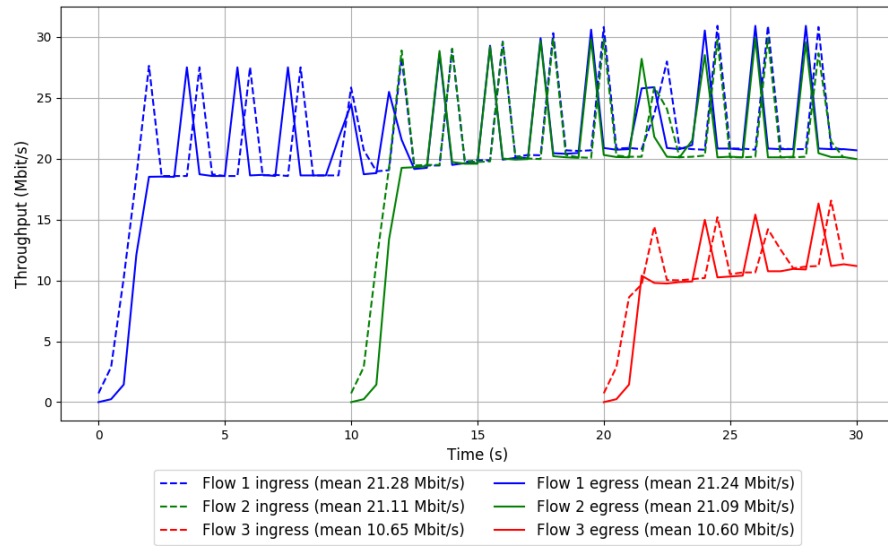


Run 9: Statistics of TCP Vegas

Start at: 2018-06-05 22:31:45
End at: 2018-06-05 22:32:15
Local clock offset: -0.31 ms
Remote clock offset: -0.271 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 114.165 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 114.299 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 21.09 Mbit/s
95th percentile per-packet one-way delay: 114.025 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 113.510 ms
Loss rate: 2.70%

Run 9: Report of TCP Vegas — Data Link

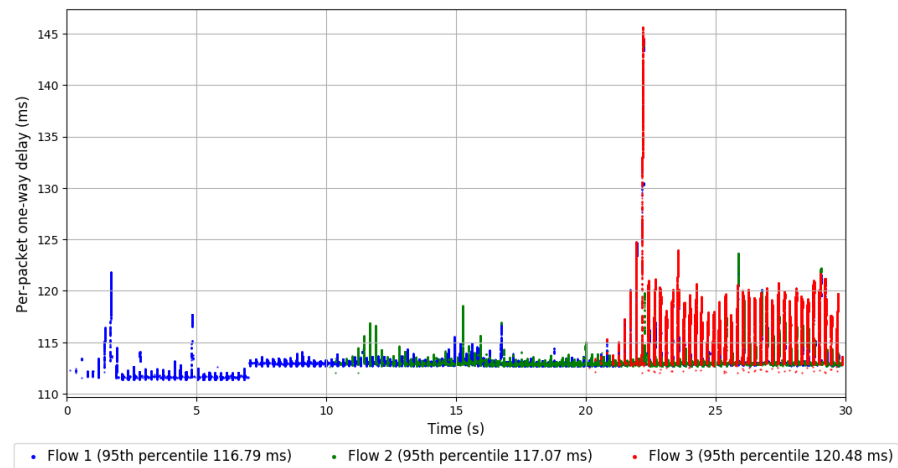
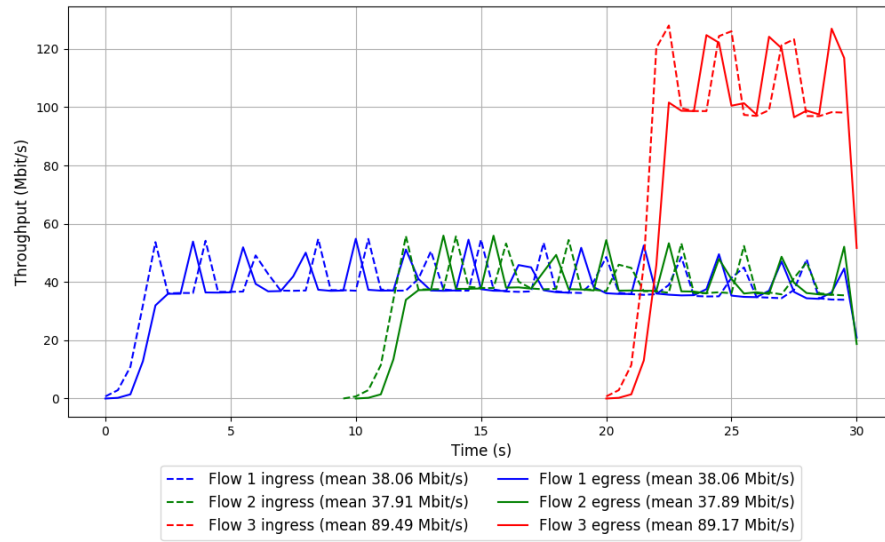


Run 10: Statistics of TCP Vegas

Start at: 2018-06-05 22:55:30
End at: 2018-06-05 22:56:00
Local clock offset: -0.187 ms
Remote clock offset: -0.273 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 119.631 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: 116.790 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 37.89 Mbit/s
95th percentile per-packet one-way delay: 117.074 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 120.477 ms
Loss rate: 2.60%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-05 19:24:56

End at: 2018-06-05 19:25:26

Local clock offset: -0.023 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-06 01:01:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.91 Mbit/s

95th percentile per-packet one-way delay: 230.787 ms

Loss rate: 3.61%

-- Flow 1:

Average throughput: 138.59 Mbit/s

95th percentile per-packet one-way delay: 230.888 ms

Loss rate: 4.21%

-- Flow 2:

Average throughput: 195.52 Mbit/s

95th percentile per-packet one-way delay: 233.043 ms

Loss rate: 2.99%

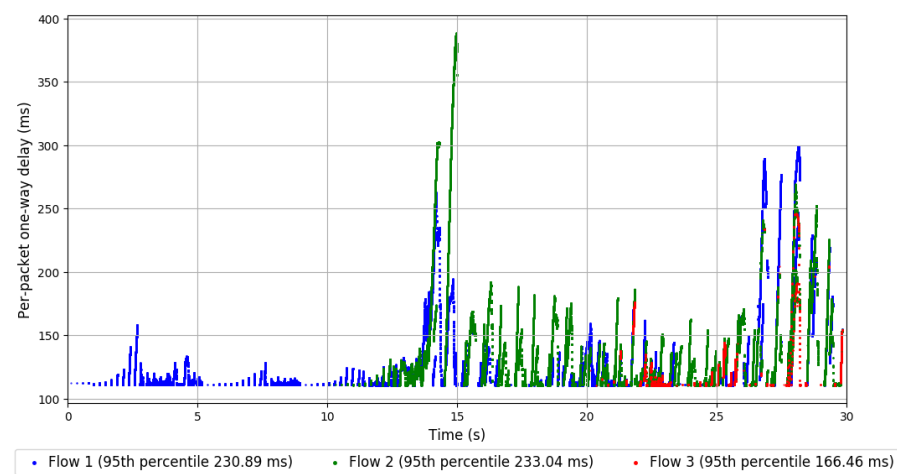
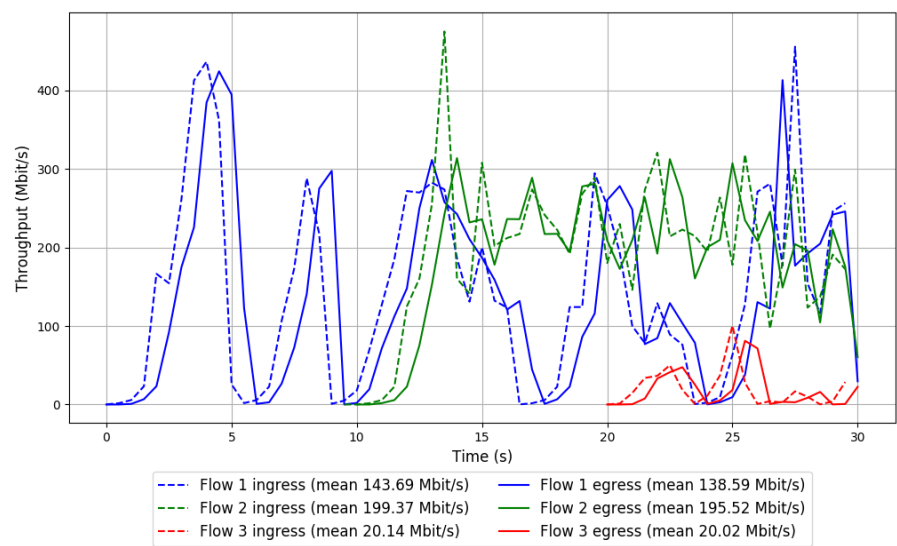
-- Flow 3:

Average throughput: 20.02 Mbit/s

95th percentile per-packet one-way delay: 166.459 ms

Loss rate: 2.97%

Run 1: Report of Verus — Data Link

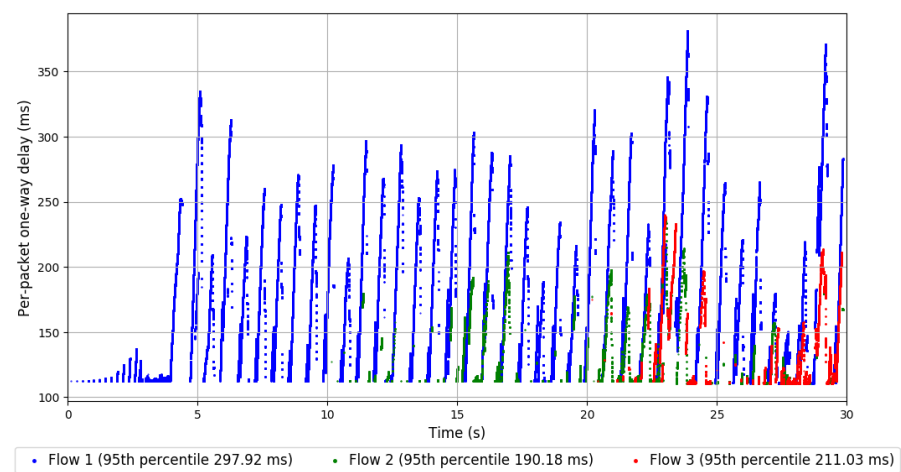
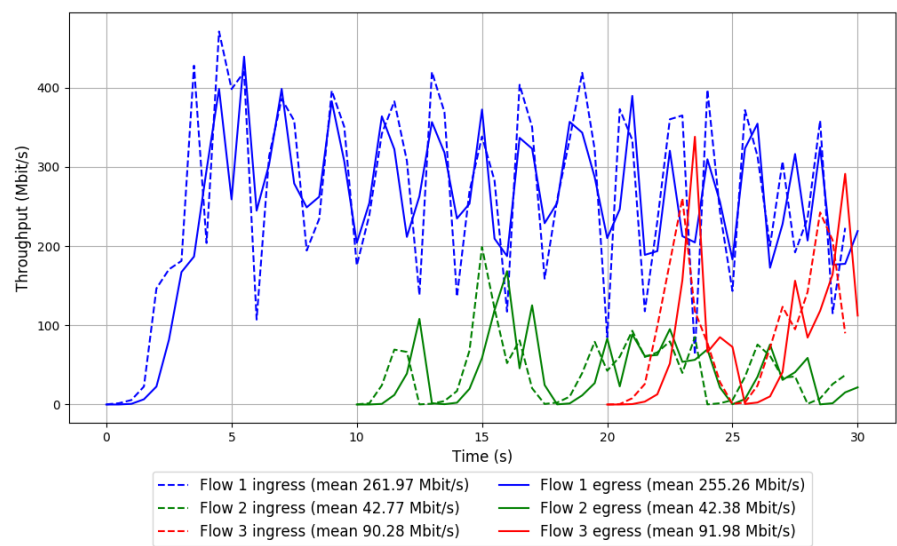


Run 2: Statistics of Verus

Start at: 2018-06-05 19:49:14
End at: 2018-06-05 19:49:44
Local clock offset: -0.079 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.08 Mbit/s
95th percentile per-packet one-way delay: 290.130 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 255.26 Mbit/s
95th percentile per-packet one-way delay: 297.916 ms
Loss rate: 2.59%
-- Flow 2:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 190.179 ms
Loss rate: 2.11%
-- Flow 3:
Average throughput: 91.98 Mbit/s
95th percentile per-packet one-way delay: 211.034 ms
Loss rate: 1.48%

Run 2: Report of Verus — Data Link

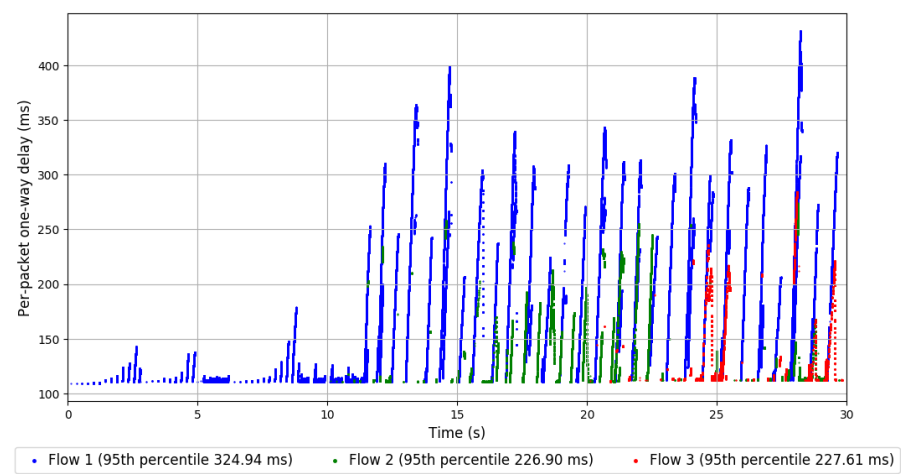
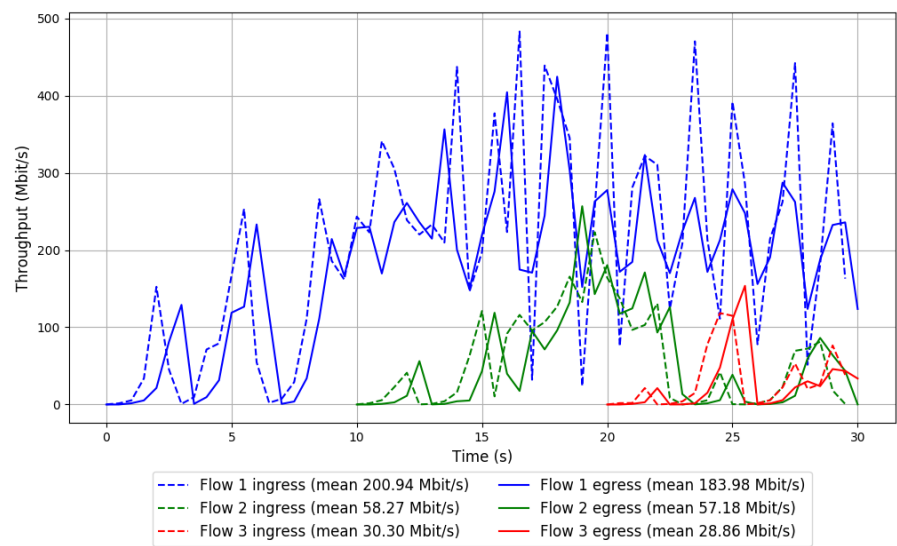


Run 3: Statistics of Verus

Start at: 2018-06-05 20:13:16
End at: 2018-06-05 20:13:46
Local clock offset: 0.057 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 229.77 Mbit/s
95th percentile per-packet one-way delay: 316.600 ms
Loss rate: 8.59%
-- Flow 1:
Average throughput: 183.98 Mbit/s
95th percentile per-packet one-way delay: 324.937 ms
Loss rate: 9.76%
-- Flow 2:
Average throughput: 57.18 Mbit/s
95th percentile per-packet one-way delay: 226.902 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 227.613 ms
Loss rate: 6.73%

Run 3: Report of Verus — Data Link

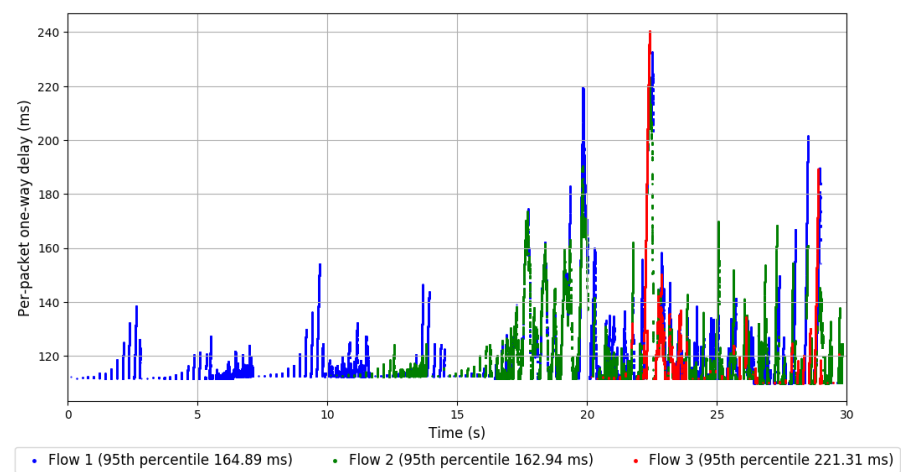
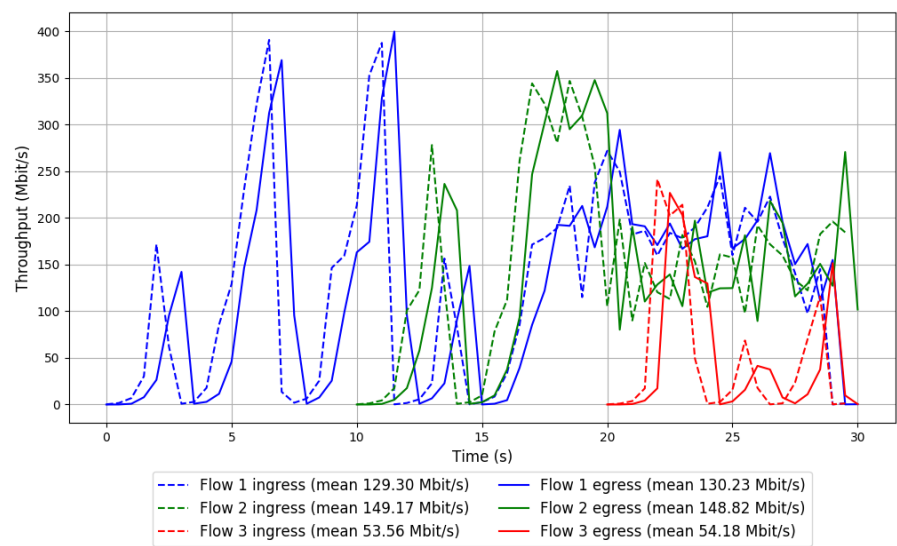


Run 4: Statistics of Verus

Start at: 2018-06-05 20:37:21
End at: 2018-06-05 20:37:51
Local clock offset: 0.078 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.55 Mbit/s
95th percentile per-packet one-way delay: 165.705 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 130.23 Mbit/s
95th percentile per-packet one-way delay: 164.891 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 148.82 Mbit/s
95th percentile per-packet one-way delay: 162.942 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 54.18 Mbit/s
95th percentile per-packet one-way delay: 221.308 ms
Loss rate: 1.14%

Run 4: Report of Verus — Data Link

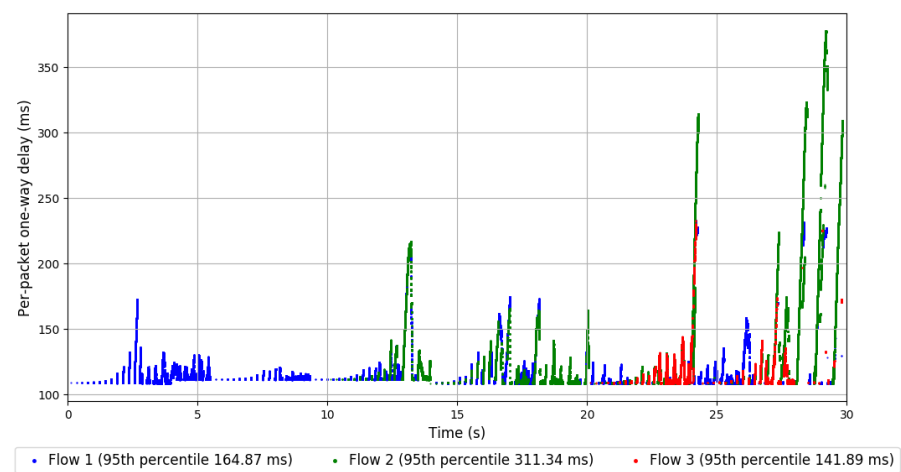
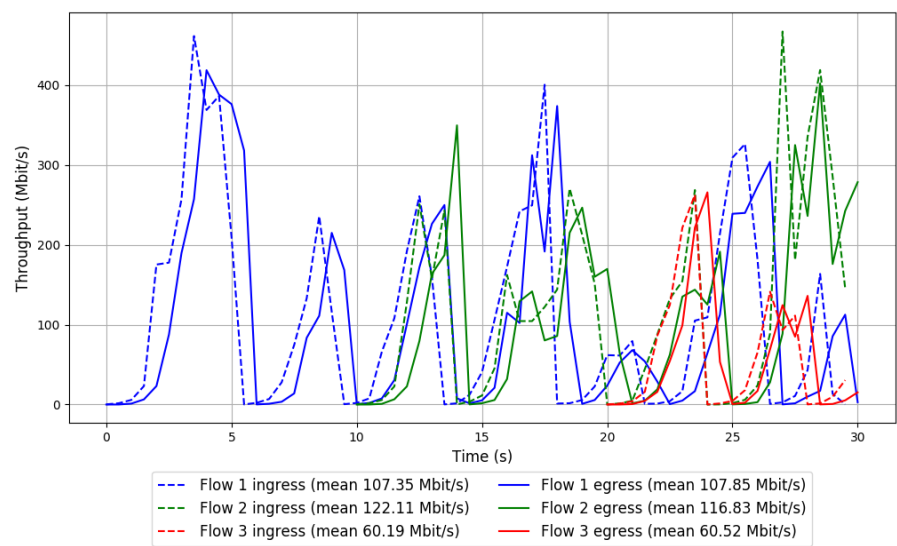


Run 5: Statistics of Verus

Start at: 2018-06-05 21:01:23
End at: 2018-06-05 21:01:53
Local clock offset: -0.307 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 204.97 Mbit/s
95th percentile per-packet one-way delay: 228.468 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 107.85 Mbit/s
95th percentile per-packet one-way delay: 164.872 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 116.83 Mbit/s
95th percentile per-packet one-way delay: 311.337 ms
Loss rate: 3.83%
-- Flow 3:
Average throughput: 60.52 Mbit/s
95th percentile per-packet one-way delay: 141.887 ms
Loss rate: 1.77%

Run 5: Report of Verus — Data Link

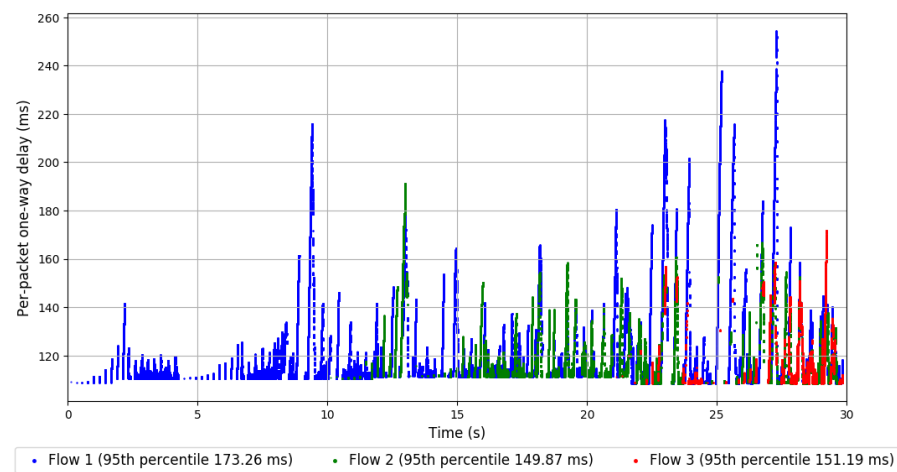
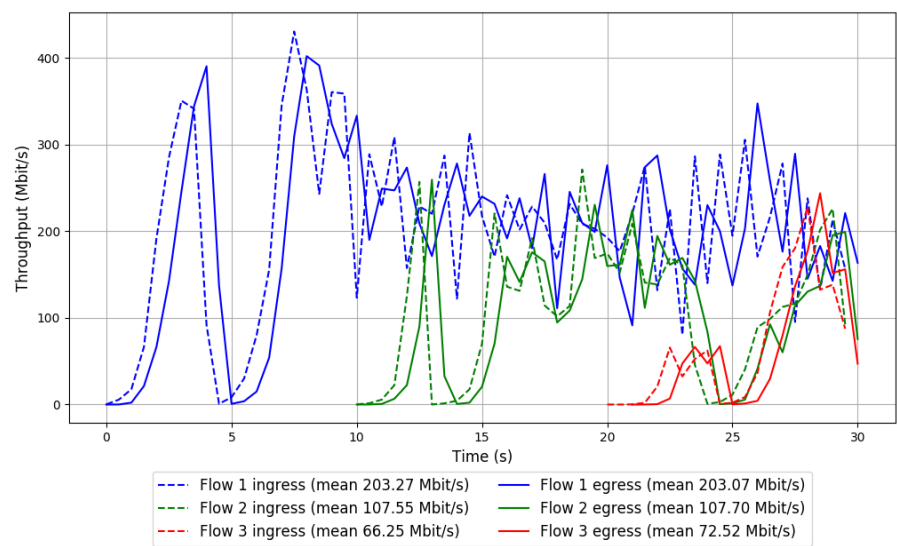


Run 6: Statistics of Verus

Start at: 2018-06-05 21:25:35
End at: 2018-06-05 21:26:05
Local clock offset: 0.003 ms
Remote clock offset: 0.345 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.93 Mbit/s
95th percentile per-packet one-way delay: 163.252 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 203.07 Mbit/s
95th percentile per-packet one-way delay: 173.259 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 107.70 Mbit/s
95th percentile per-packet one-way delay: 149.865 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 72.52 Mbit/s
95th percentile per-packet one-way delay: 151.195 ms
Loss rate: 3.99%

Run 6: Report of Verus — Data Link

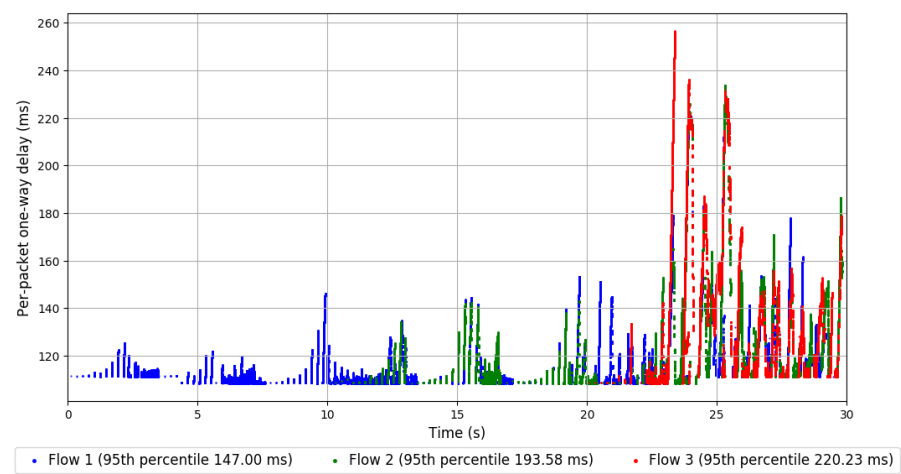
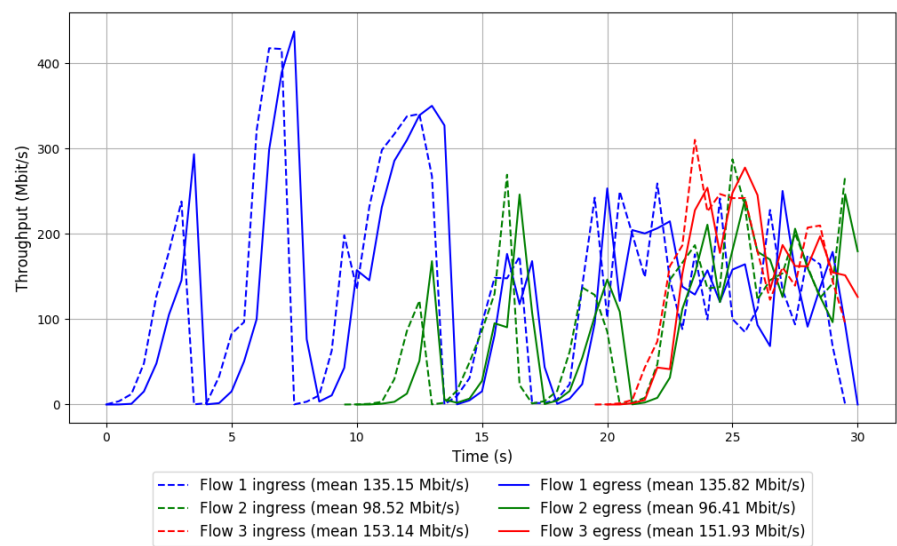


Run 7: Statistics of Verus

Start at: 2018-06-05 21:49:33
End at: 2018-06-05 21:50:03
Local clock offset: -0.51 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-06 01:01:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 249.21 Mbit/s
95th percentile per-packet one-way delay: 182.761 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 135.82 Mbit/s
95th percentile per-packet one-way delay: 146.995 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 193.578 ms
Loss rate: 3.06%
-- Flow 3:
Average throughput: 151.93 Mbit/s
95th percentile per-packet one-way delay: 220.230 ms
Loss rate: 1.60%

Run 7: Report of Verus — Data Link

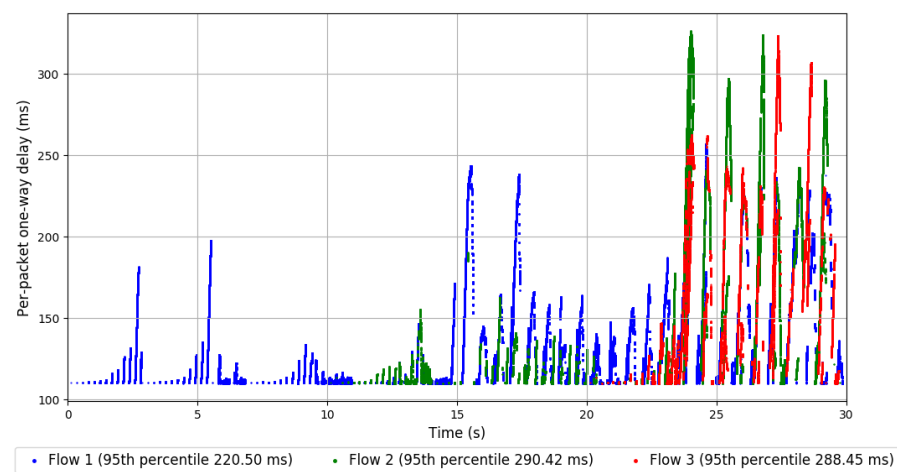
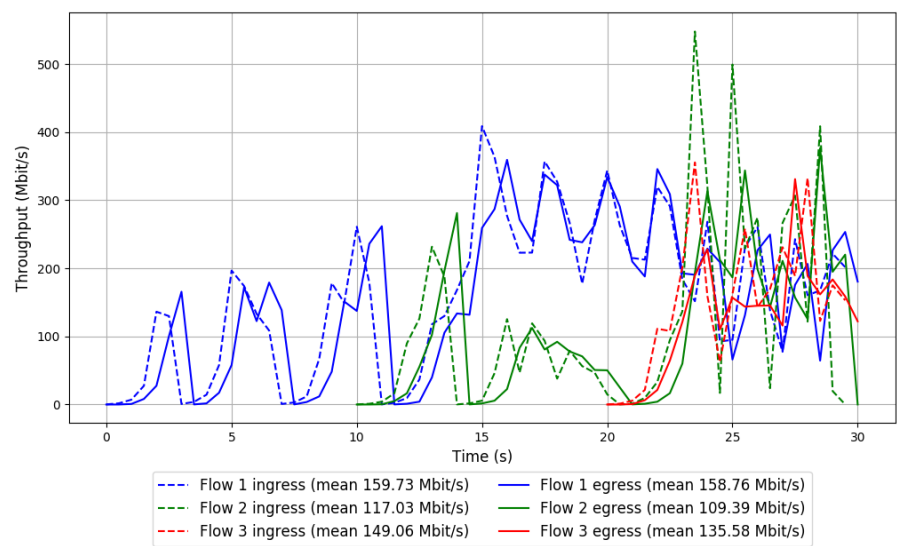


Run 8: Statistics of Verus

Start at: 2018-06-05 22:13:25
End at: 2018-06-05 22:13:55
Local clock offset: 0.023 ms
Remote clock offset: -0.557 ms

Below is generated by plot.py at 2018-06-06 01:03:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 274.56 Mbit/s
95th percentile per-packet one-way delay: 252.241 ms
Loss rate: 4.86%
-- Flow 1:
Average throughput: 158.76 Mbit/s
95th percentile per-packet one-way delay: 220.504 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 109.39 Mbit/s
95th percentile per-packet one-way delay: 290.415 ms
Loss rate: 7.58%
-- Flow 3:
Average throughput: 135.58 Mbit/s
95th percentile per-packet one-way delay: 288.448 ms
Loss rate: 12.42%

Run 8: Report of Verus — Data Link

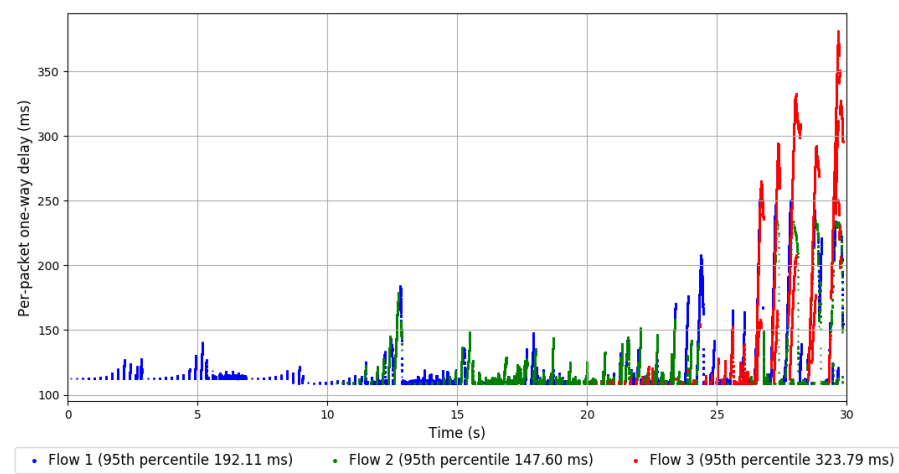
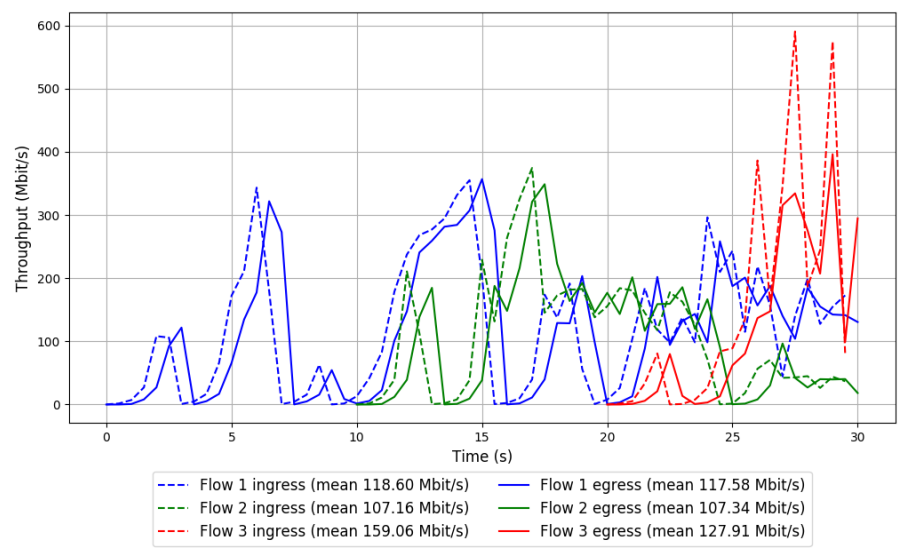


Run 9: Statistics of Verus

Start at: 2018-06-05 22:37:08
End at: 2018-06-05 22:37:38
Local clock offset: -0.169 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-06-06 01:03:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 230.63 Mbit/s
95th percentile per-packet one-way delay: 276.183 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 117.58 Mbit/s
95th percentile per-packet one-way delay: 192.107 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 107.34 Mbit/s
95th percentile per-packet one-way delay: 147.605 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 127.91 Mbit/s
95th percentile per-packet one-way delay: 323.794 ms
Loss rate: 18.04%

Run 9: Report of Verus — Data Link

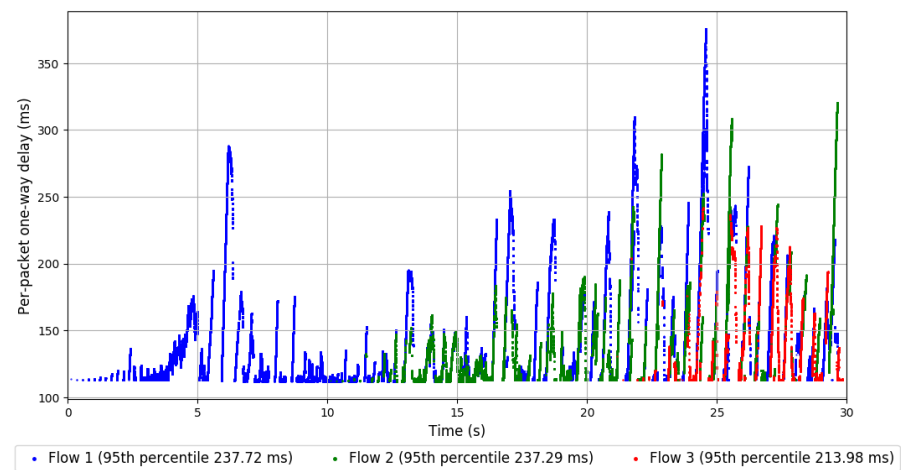
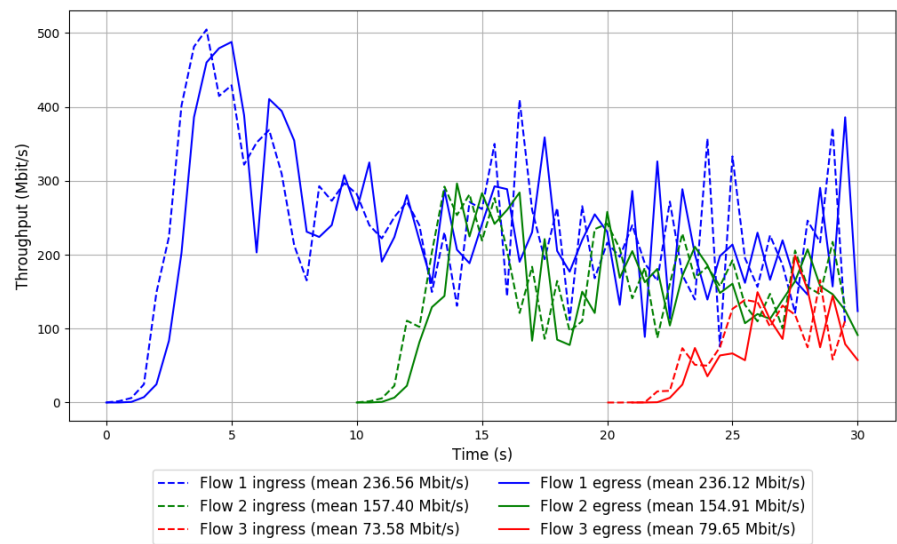


Run 10: Statistics of Verus

Start at: 2018-06-05 23:01:01
End at: 2018-06-05 23:01:31
Local clock offset: -0.104 ms
Remote clock offset: -0.714 ms

Below is generated by plot.py at 2018-06-06 01:04:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.66 Mbit/s
95th percentile per-packet one-way delay: 235.933 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 236.12 Mbit/s
95th percentile per-packet one-way delay: 237.716 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 154.91 Mbit/s
95th percentile per-packet one-way delay: 237.292 ms
Loss rate: 3.62%
-- Flow 3:
Average throughput: 79.65 Mbit/s
95th percentile per-packet one-way delay: 213.983 ms
Loss rate: 4.32%

Run 10: Report of Verus — Data Link

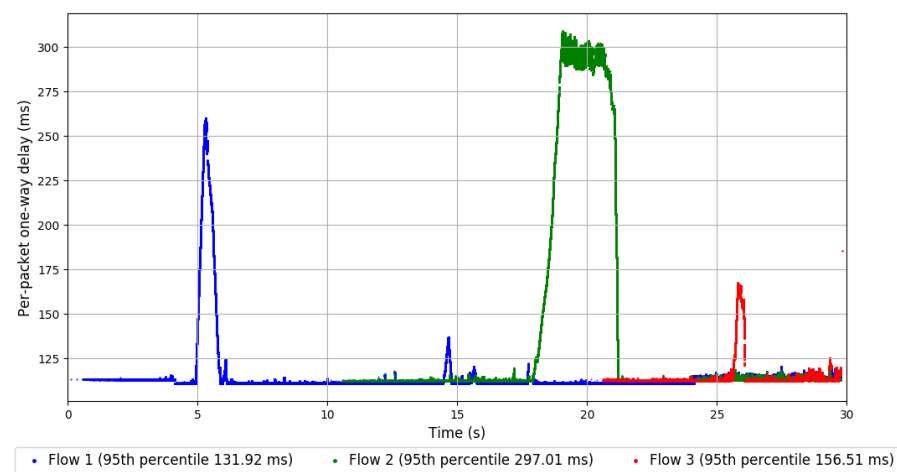
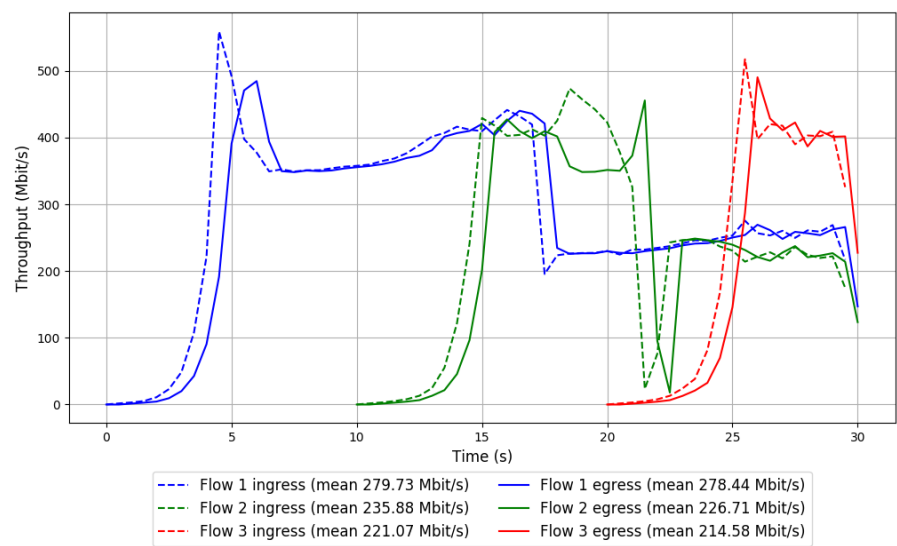


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-05 19:38:23
End at: 2018-06-05 19:38:53
Local clock offset: -0.018 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-06-06 01:07:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 497.69 Mbit/s
95th percentile per-packet one-way delay: 265.582 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 278.44 Mbit/s
95th percentile per-packet one-way delay: 131.919 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 226.71 Mbit/s
95th percentile per-packet one-way delay: 297.013 ms
Loss rate: 4.97%
-- Flow 3:
Average throughput: 214.58 Mbit/s
95th percentile per-packet one-way delay: 156.514 ms
Loss rate: 4.50%

Run 1: Report of PCC-Vivace — Data Link

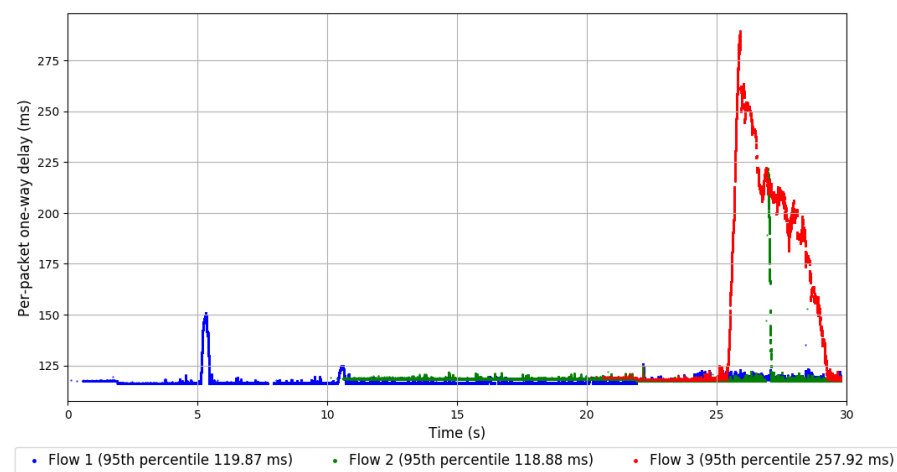
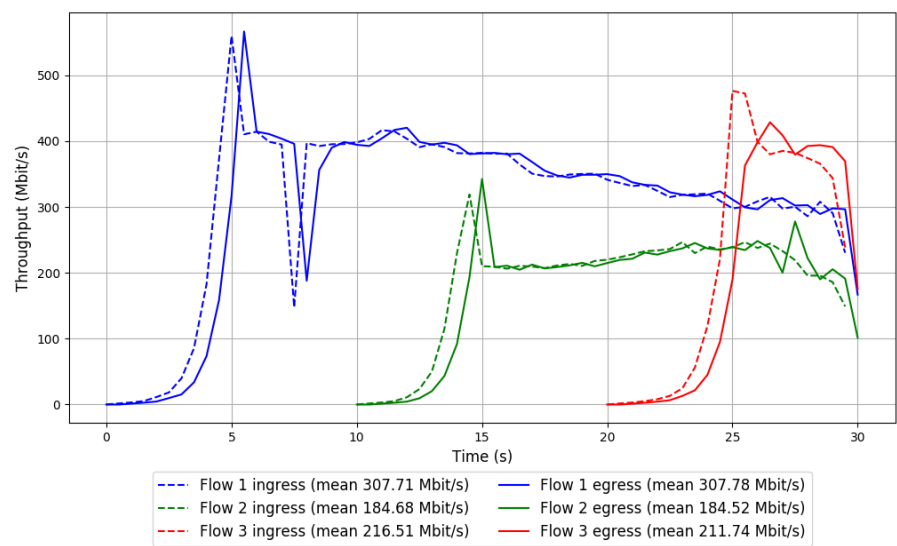


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-05 20:02:35
End at: 2018-06-05 20:03:05
Local clock offset: 6.472 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-06 01:08:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 498.75 Mbit/s
95th percentile per-packet one-way delay: 206.349 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 307.78 Mbit/s
95th percentile per-packet one-way delay: 119.870 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 184.52 Mbit/s
95th percentile per-packet one-way delay: 118.880 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 211.74 Mbit/s
95th percentile per-packet one-way delay: 257.924 ms
Loss rate: 4.43%

Run 2: Report of PCC-Vivace — Data Link

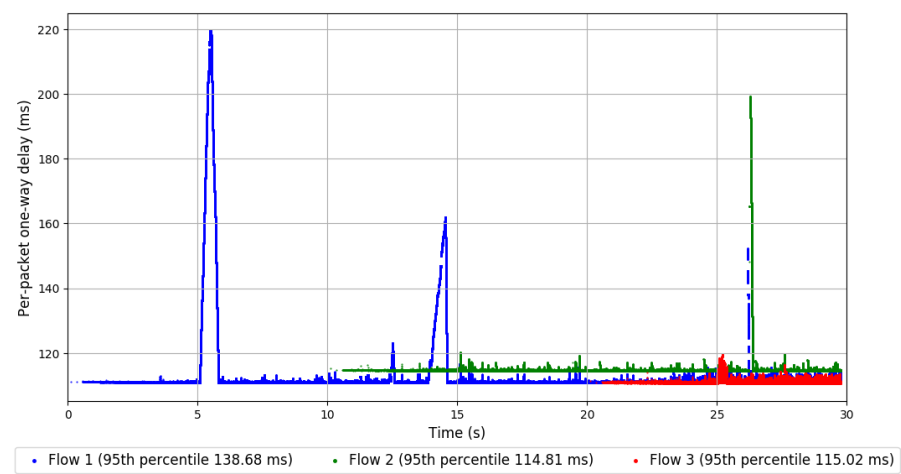
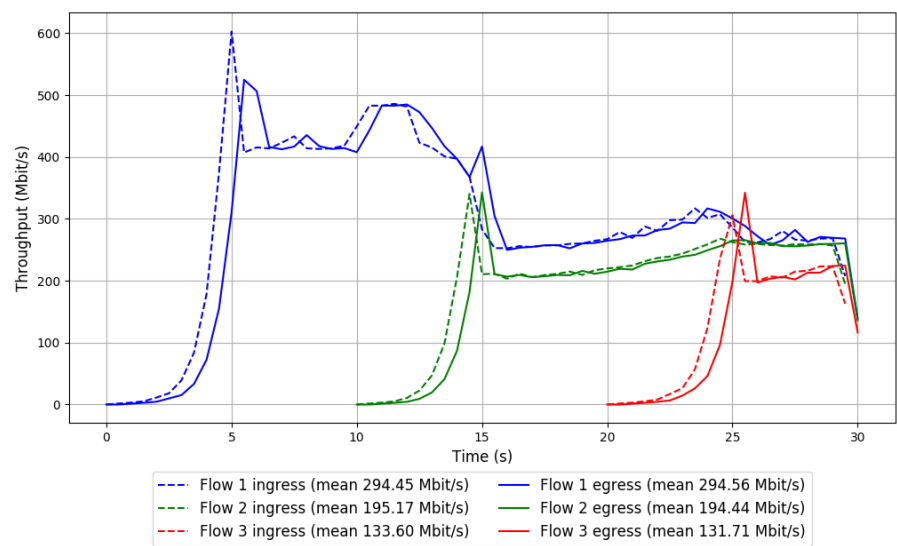


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-05 20:26:27
End at: 2018-06-05 20:26:57
Local clock offset: -0.114 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-06 01:08:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 466.17 Mbit/s
95th percentile per-packet one-way delay: 118.407 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 294.56 Mbit/s
95th percentile per-packet one-way delay: 138.684 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 194.44 Mbit/s
95th percentile per-packet one-way delay: 114.809 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 131.71 Mbit/s
95th percentile per-packet one-way delay: 115.015 ms
Loss rate: 3.63%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-05 20:50:48

End at: 2018-06-05 20:51:18

Local clock offset: 0.015 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-06 01:10:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 588.90 Mbit/s

95th percentile per-packet one-way delay: 119.200 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 306.14 Mbit/s

95th percentile per-packet one-way delay: 112.798 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 322.75 Mbit/s

95th percentile per-packet one-way delay: 119.424 ms

Loss rate: 1.32%

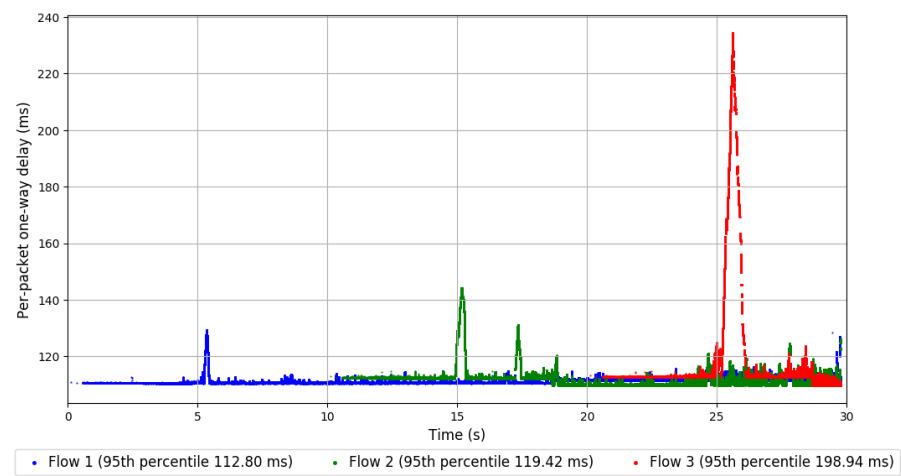
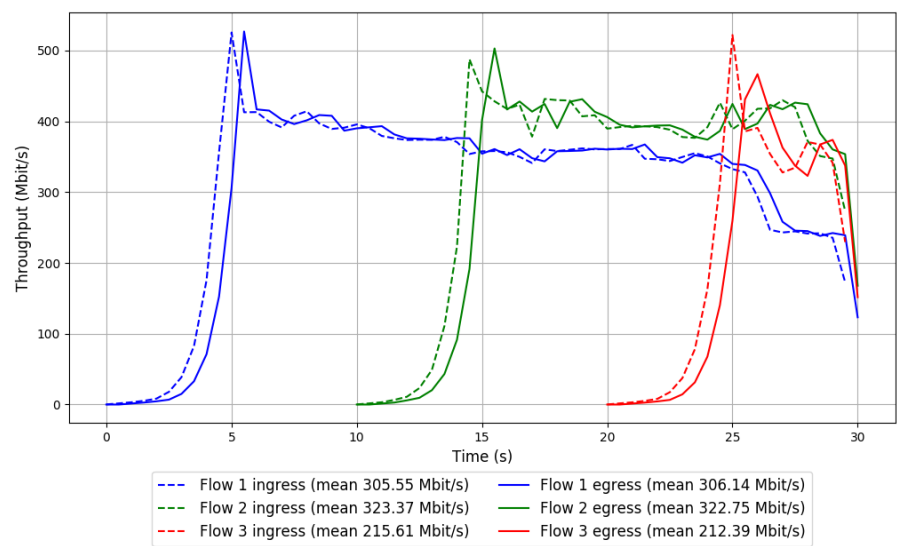
-- Flow 3:

Average throughput: 212.39 Mbit/s

95th percentile per-packet one-way delay: 198.938 ms

Loss rate: 3.75%

Run 4: Report of PCC-Vivace — Data Link

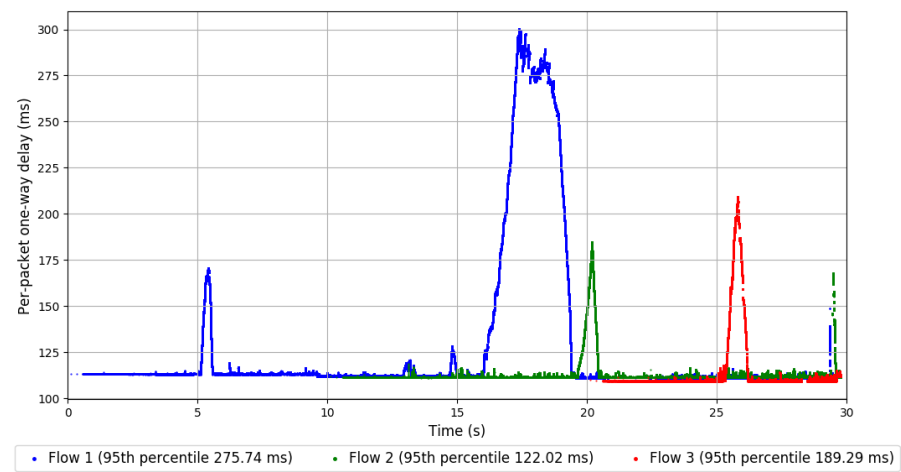
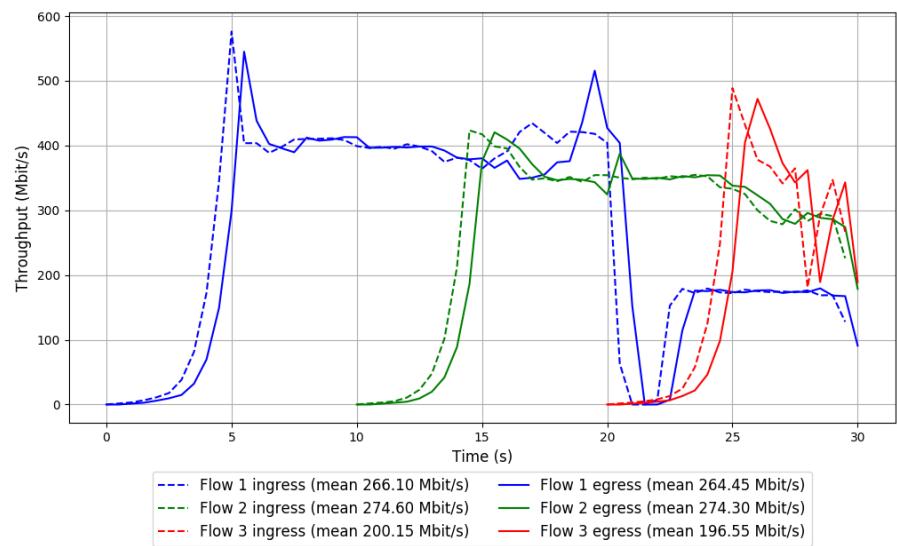


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-05 21:14:37
End at: 2018-06-05 21:15:07
Local clock offset: 0.174 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-06 01:10:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 510.01 Mbit/s
95th percentile per-packet one-way delay: 225.287 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 264.45 Mbit/s
95th percentile per-packet one-way delay: 275.739 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 274.30 Mbit/s
95th percentile per-packet one-way delay: 122.023 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 196.55 Mbit/s
95th percentile per-packet one-way delay: 189.287 ms
Loss rate: 4.03%

Run 5: Report of PCC-Vivace — Data Link

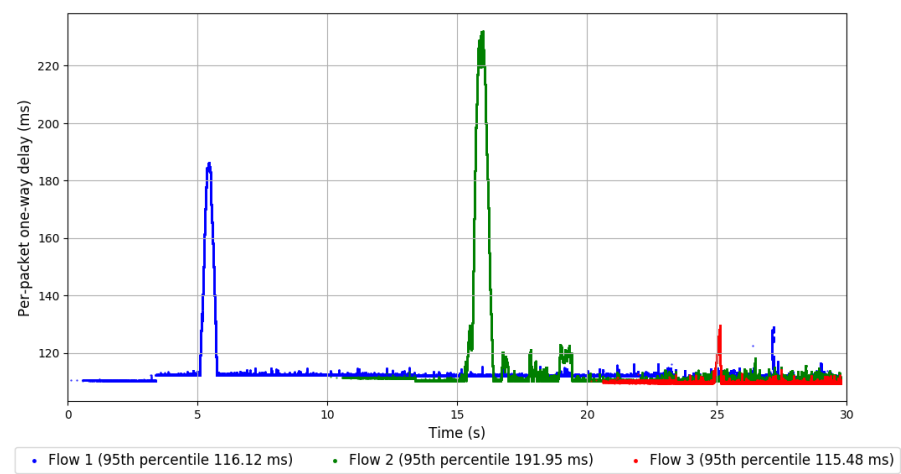
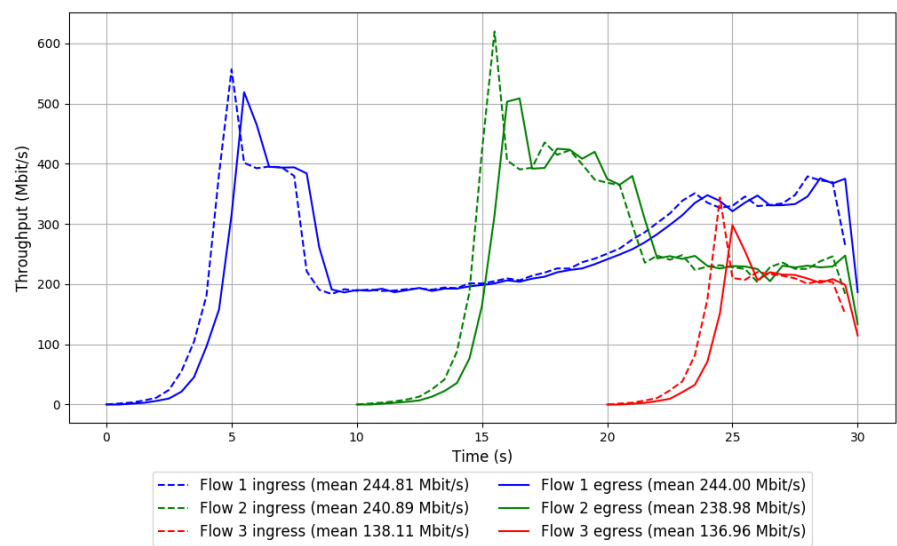


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-05 21:38:53
End at: 2018-06-05 21:39:24
Local clock offset: 0.007 ms
Remote clock offset: -0.447 ms

Below is generated by plot.py at 2018-06-06 01:10:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 446.81 Mbit/s
95th percentile per-packet one-way delay: 130.737 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 244.00 Mbit/s
95th percentile per-packet one-way delay: 116.120 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 238.98 Mbit/s
95th percentile per-packet one-way delay: 191.952 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 136.96 Mbit/s
95th percentile per-packet one-way delay: 115.480 ms
Loss rate: 3.06%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-05 22:02:48

End at: 2018-06-05 22:03:18

Local clock offset: -0.167 ms

Remote clock offset: 0.248 ms

Below is generated by plot.py at 2018-06-06 01:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 529.76 Mbit/s

95th percentile per-packet one-way delay: 146.549 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 326.61 Mbit/s

95th percentile per-packet one-way delay: 118.974 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 195.41 Mbit/s

95th percentile per-packet one-way delay: 111.432 ms

Loss rate: 0.99%

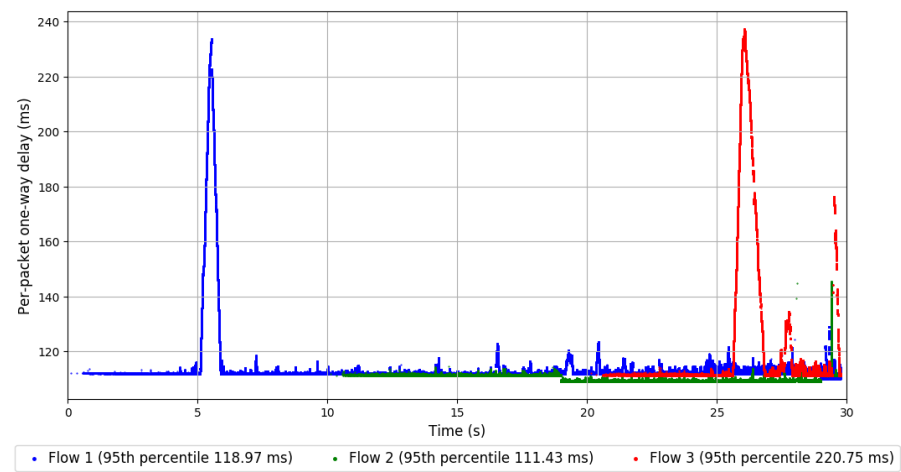
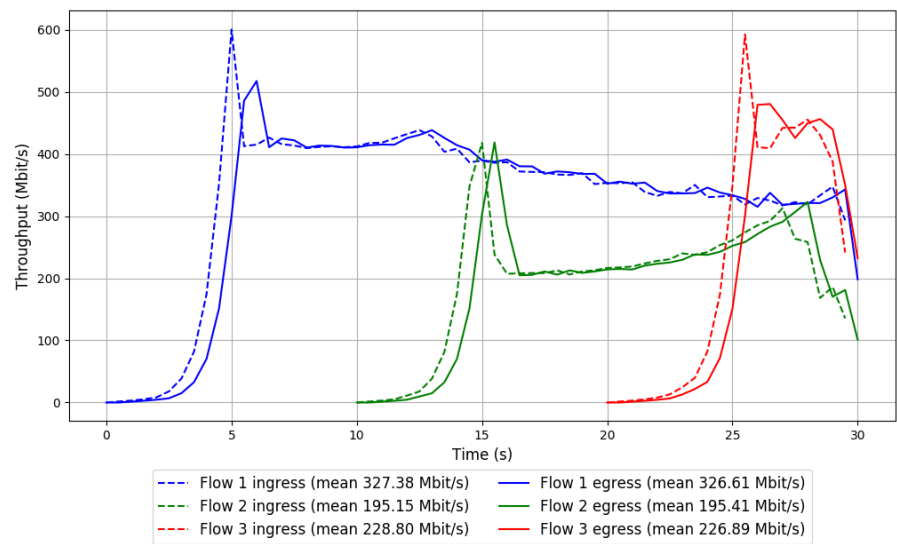
-- Flow 3:

Average throughput: 226.89 Mbit/s

95th percentile per-packet one-way delay: 220.748 ms

Loss rate: 3.08%

Run 7: Report of PCC-Vivace — Data Link

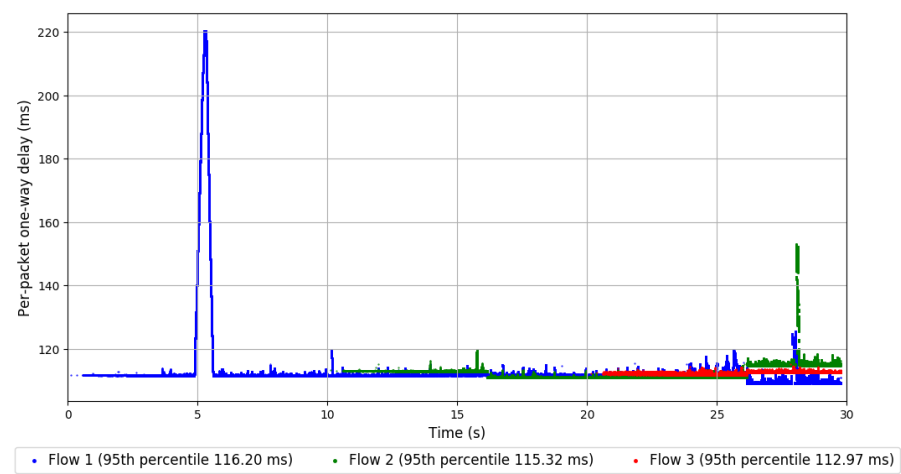
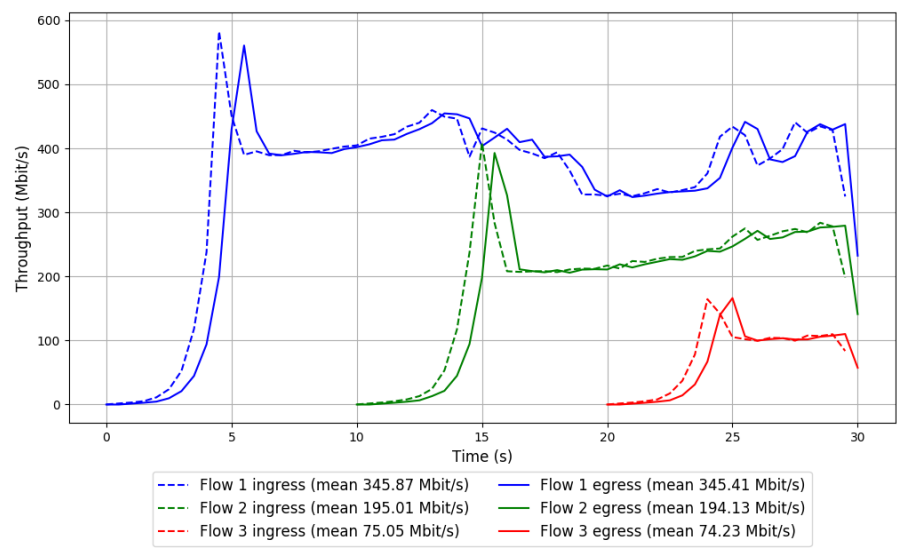


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-05 22:26:31
End at: 2018-06-05 22:27:01
Local clock offset: 0.017 ms
Remote clock offset: -0.229 ms

Below is generated by plot.py at 2018-06-06 01:11:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 498.15 Mbit/s
95th percentile per-packet one-way delay: 115.322 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 345.41 Mbit/s
95th percentile per-packet one-way delay: 116.197 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 194.13 Mbit/s
95th percentile per-packet one-way delay: 115.323 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 74.23 Mbit/s
95th percentile per-packet one-way delay: 112.972 ms
Loss rate: 3.37%

Run 8: Report of PCC-Vivace — Data Link

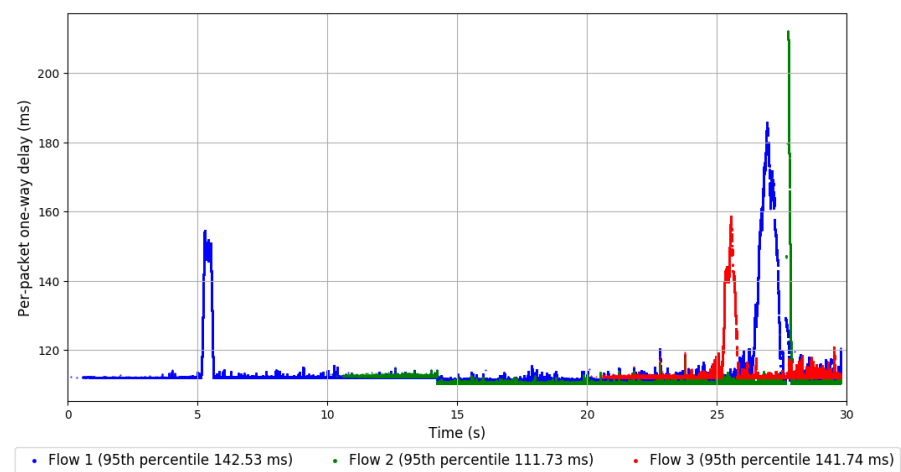
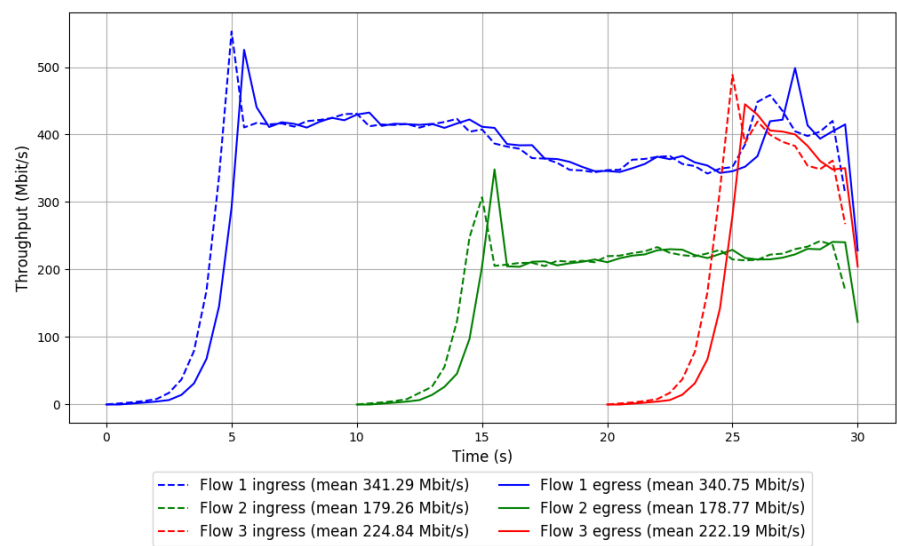


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-05 22:50:13
End at: 2018-06-05 22:50:43
Local clock offset: -0.166 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 531.40 Mbit/s
95th percentile per-packet one-way delay: 135.064 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 340.75 Mbit/s
95th percentile per-packet one-way delay: 142.526 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 178.77 Mbit/s
95th percentile per-packet one-way delay: 111.735 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 222.19 Mbit/s
95th percentile per-packet one-way delay: 141.736 ms
Loss rate: 3.43%

Run 9: Report of PCC-Vivace — Data Link

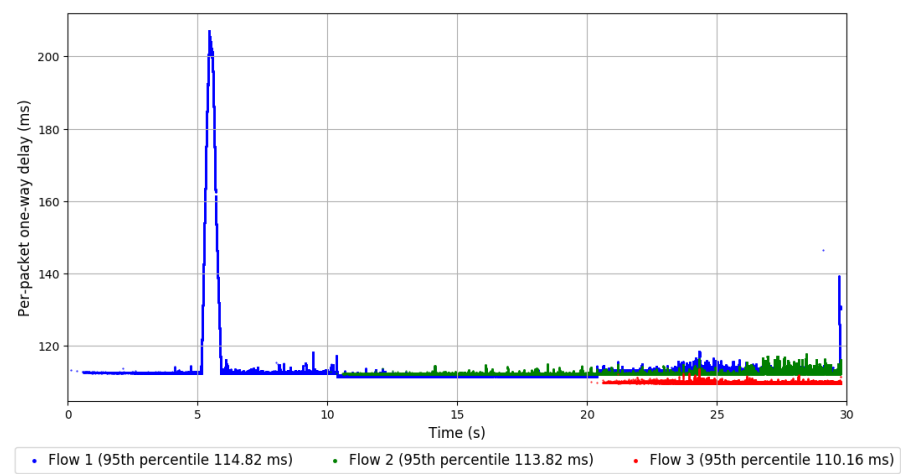
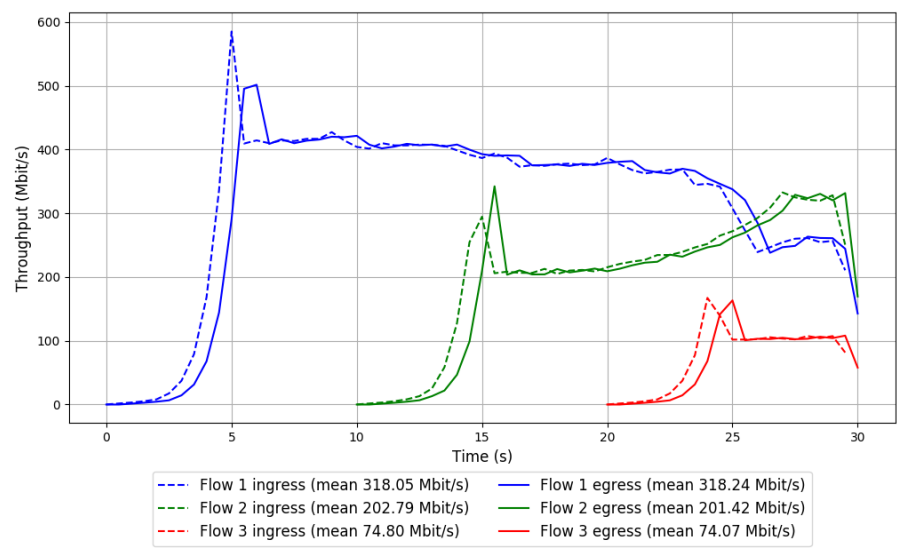


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-05 23:14:47
End at: 2018-06-05 23:15:17
Local clock offset: 0.03 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 475.72 Mbit/s
95th percentile per-packet one-way delay: 114.175 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 318.24 Mbit/s
95th percentile per-packet one-way delay: 114.816 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 201.42 Mbit/s
95th percentile per-packet one-way delay: 113.817 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 110.155 ms
Loss rate: 3.17%

Run 10: Report of PCC-Vivace — Data Link

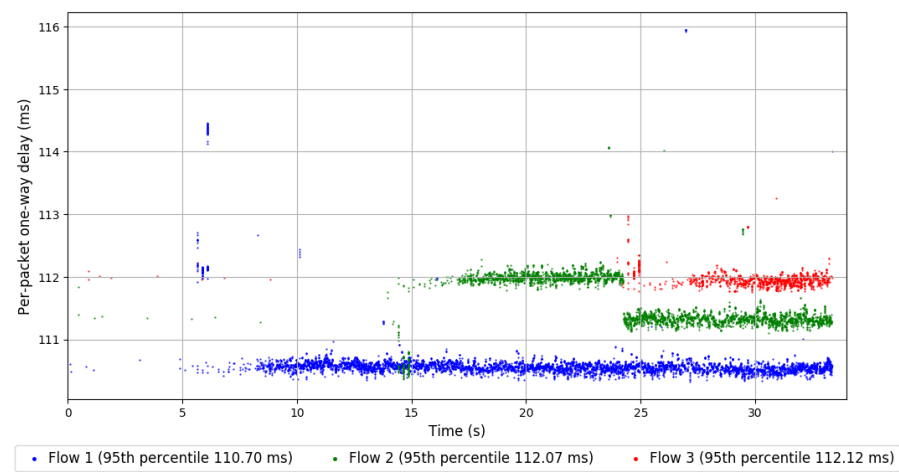
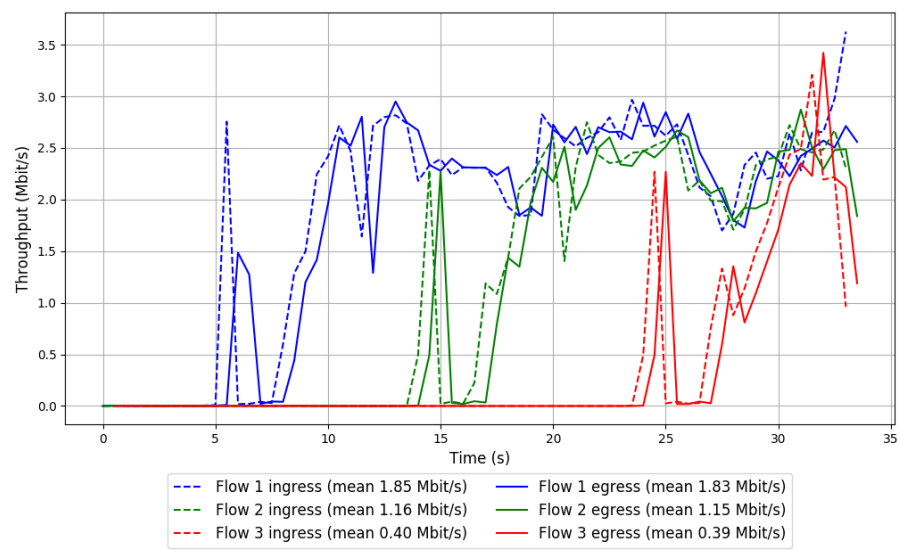


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-05 19:35:56
End at: 2018-06-05 19:36:26
Local clock offset: -0.394 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-06 01:12:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 112.050 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 110.697 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 112.070 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 112.123 ms
Loss rate: 1.46%
```

Run 1: Report of WebRTC media — Data Link

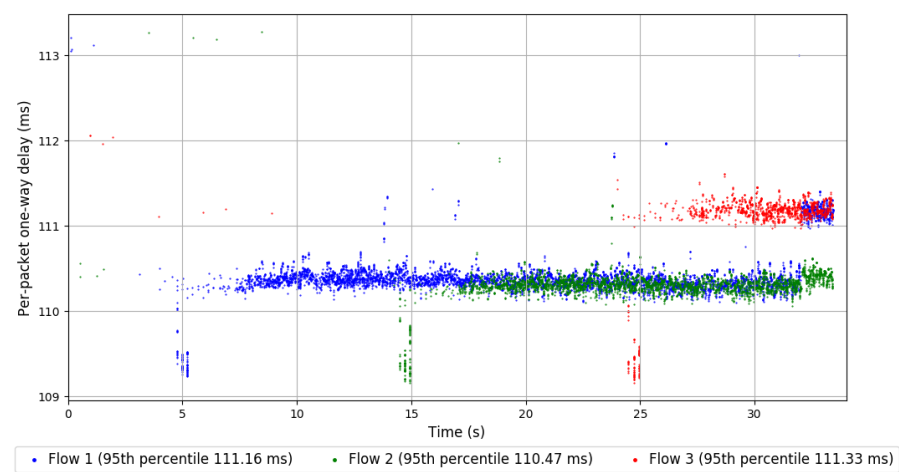
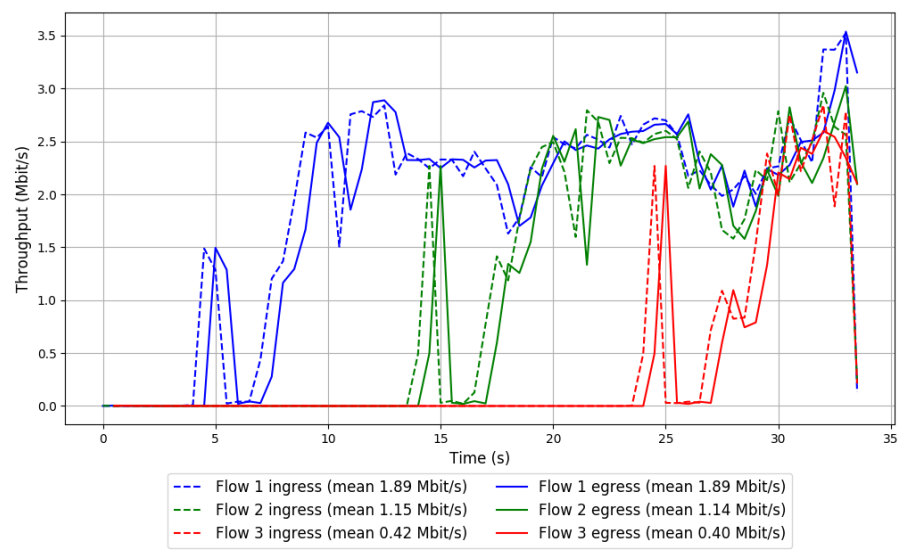


Run 2: Statistics of WebRTC media

Start at: 2018-06-05 20:00:08
End at: 2018-06-05 20:00:38
Local clock offset: 0.193 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 111.221 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 111.161 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 110.466 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 111.335 ms
Loss rate: 4.67%

Run 2: Report of WebRTC media — Data Link

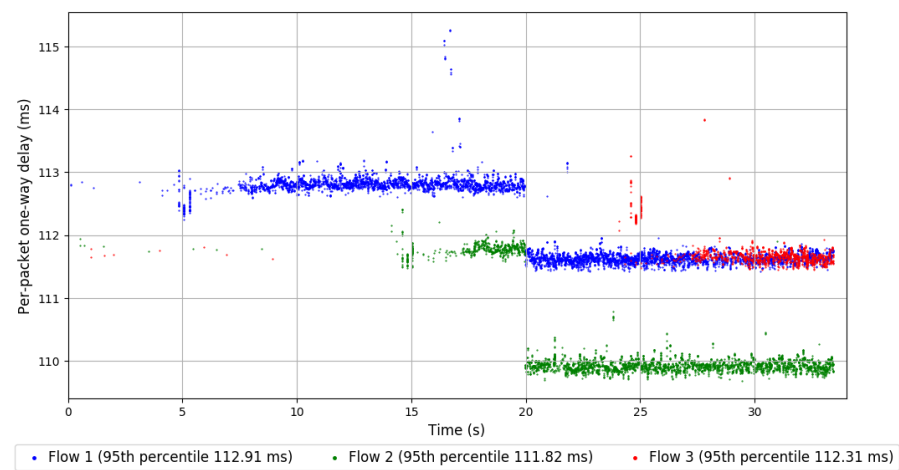
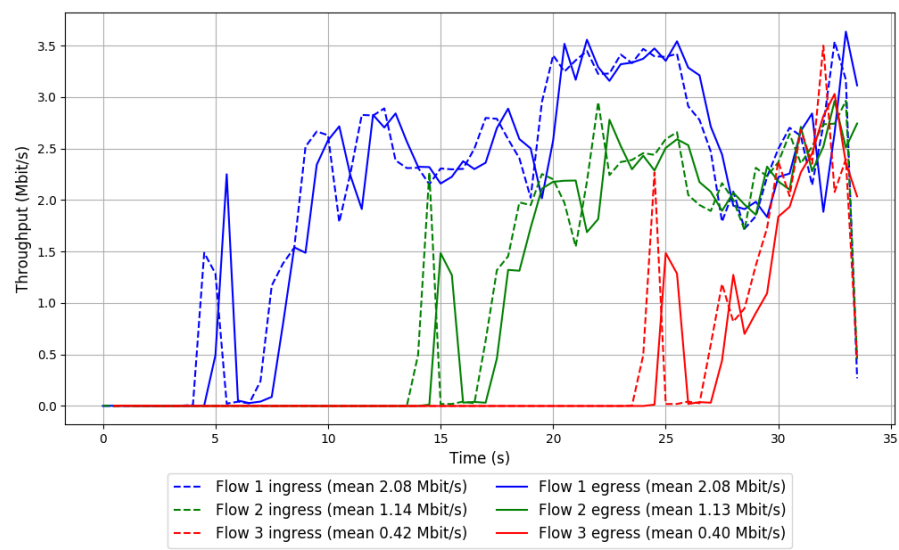


Run 3: Statistics of WebRTC media

Start at: 2018-06-05 20:24:01
End at: 2018-06-05 20:24:31
Local clock offset: -0.13 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 112.874 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 112.914 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 111.816 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 112.314 ms
Loss rate: 5.02%

Run 3: Report of WebRTC media — Data Link

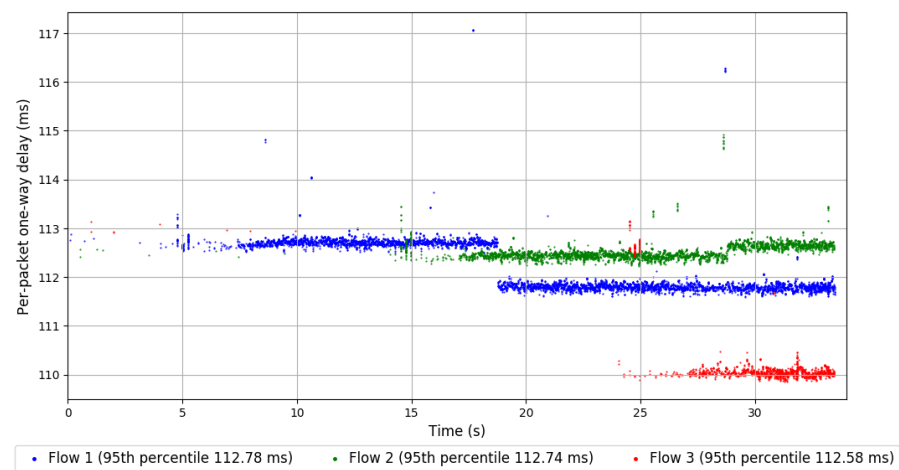
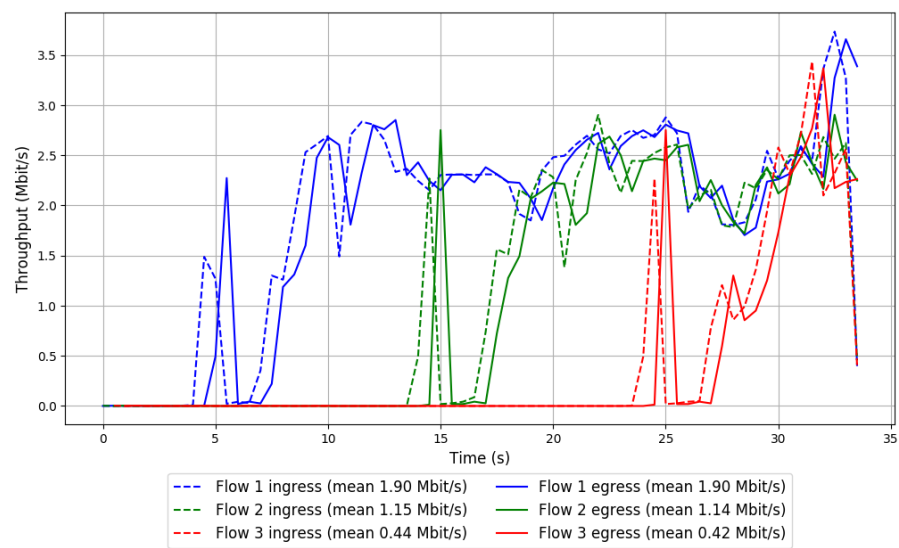


Run 4: Statistics of WebRTC media

Start at: 2018-06-05 20:48:22
End at: 2018-06-05 20:48:52
Local clock offset: 0.067 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 112.768 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 112.781 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 112.736 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 112.584 ms
Loss rate: 4.63%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-05 21:12:11

End at: 2018-06-05 21:12:41

Local clock offset: -0.122 ms

Remote clock offset: 0.326 ms

Below is generated by plot.py at 2018-06-06 01:12:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 114.633 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 114.671 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 111.515 ms

Loss rate: 1.64%

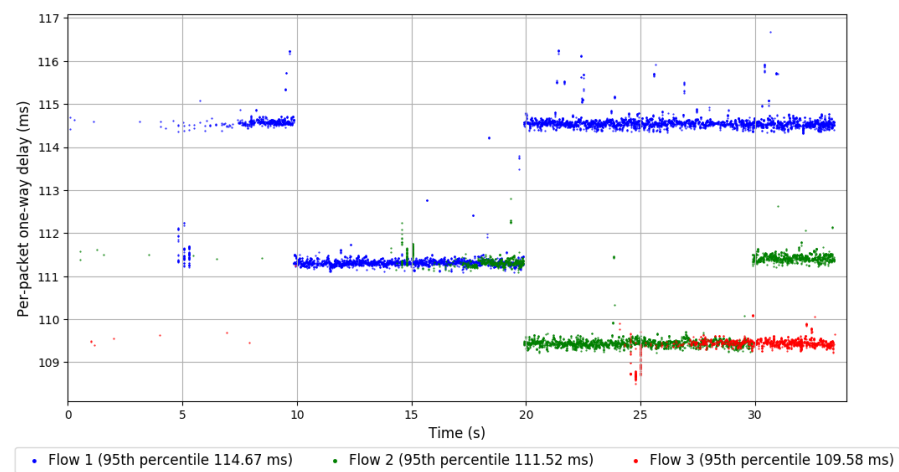
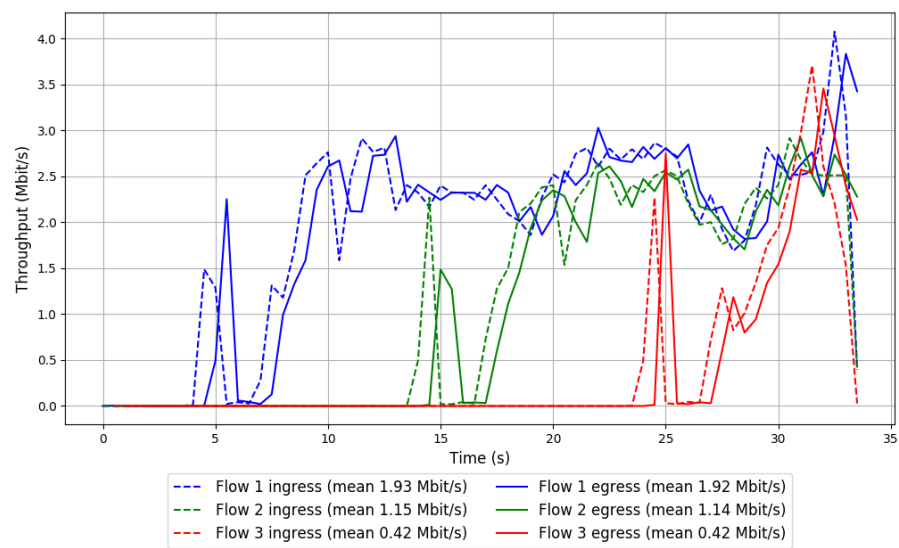
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 109.580 ms

Loss rate: 0.32%

Run 5: Report of WebRTC media — Data Link

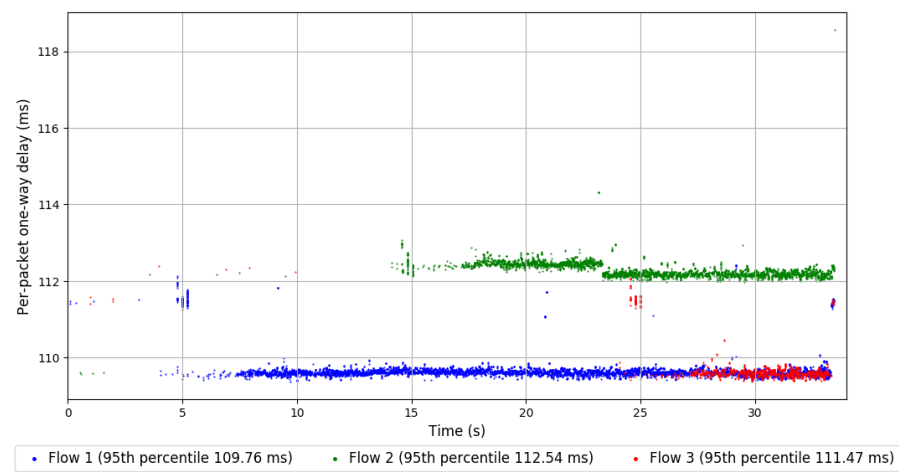
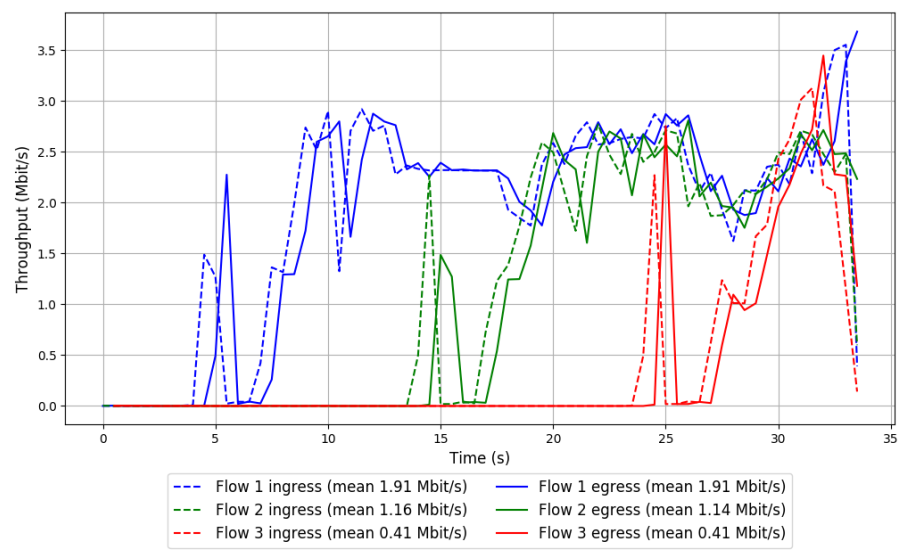


Run 6: Statistics of WebRTC media

Start at: 2018-06-05 21:36:27
End at: 2018-06-05 21:36:57
Local clock offset: 0.001 ms
Remote clock offset: -0.431 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 112.468 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 109.759 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 112.540 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 111.472 ms
Loss rate: 1.71%

Run 6: Report of WebRTC media — Data Link

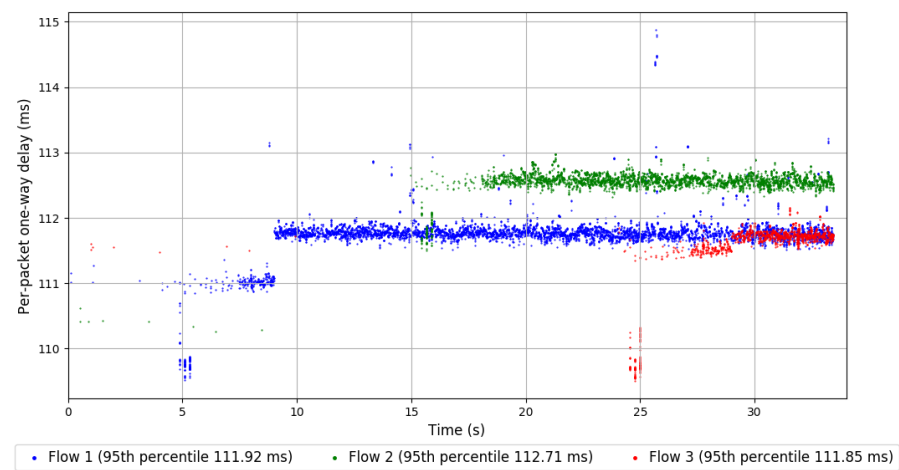
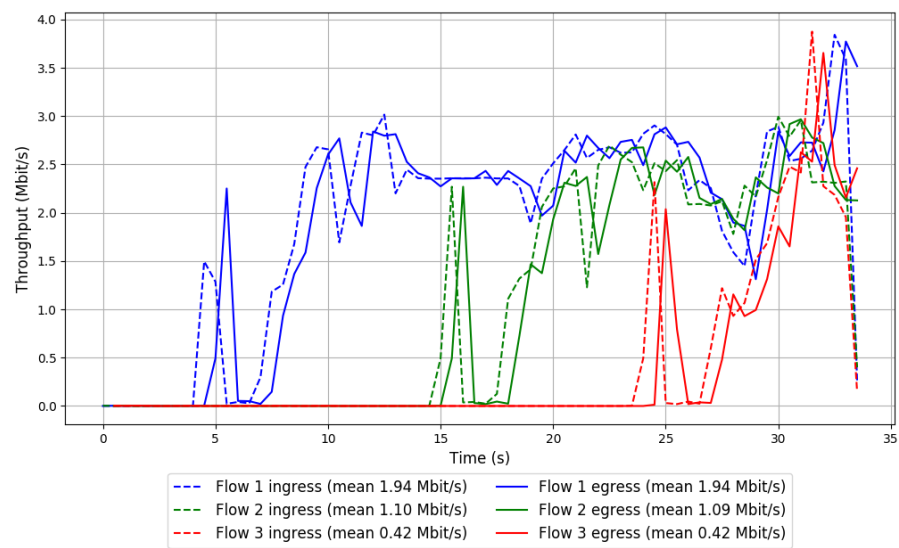


Run 7: Statistics of WebRTC media

Start at: 2018-06-05 22:00:22
End at: 2018-06-05 22:00:52
Local clock offset: -0.274 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 112.656 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 111.920 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 112.706 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 111.854 ms
Loss rate: 0.77%

Run 7: Report of WebRTC media — Data Link

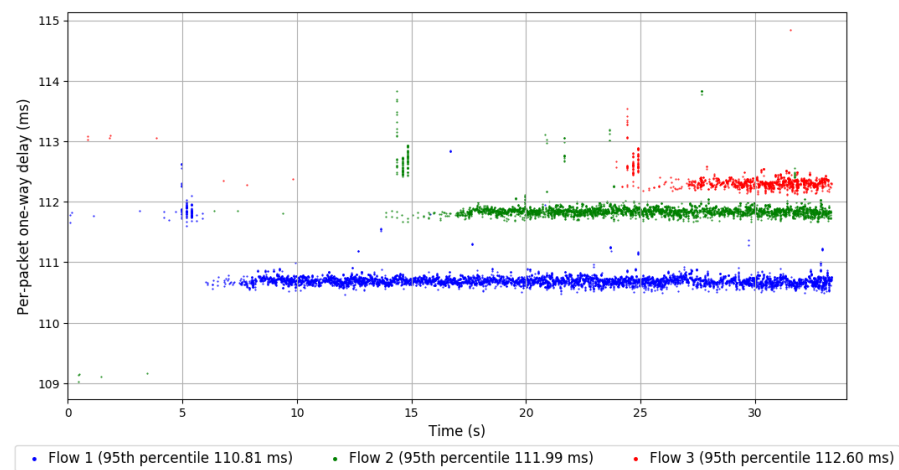
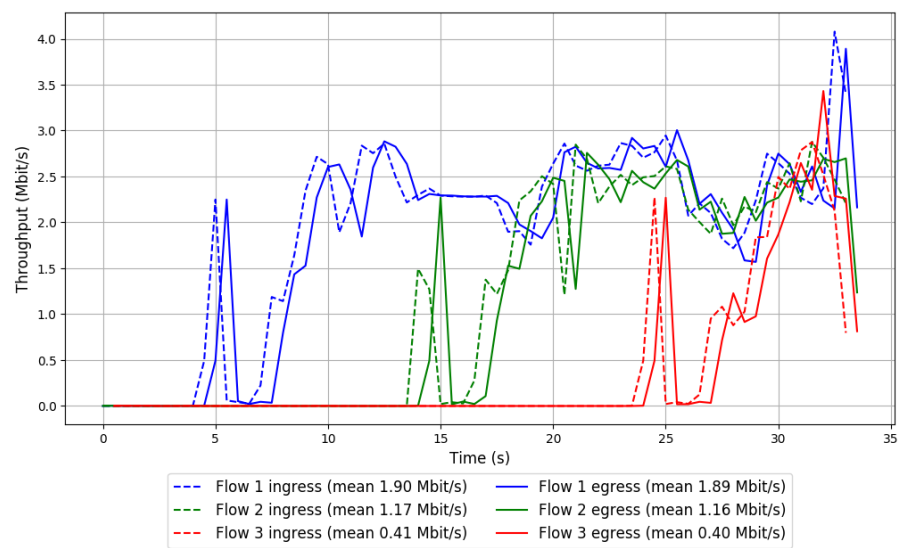


Run 8: Statistics of WebRTC media

Start at: 2018-06-05 22:24:05
End at: 2018-06-05 22:24:35
Local clock offset: -0.156 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 112.347 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 110.814 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 111.989 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 112.600 ms
Loss rate: 1.34%

Run 8: Report of WebRTC media — Data Link

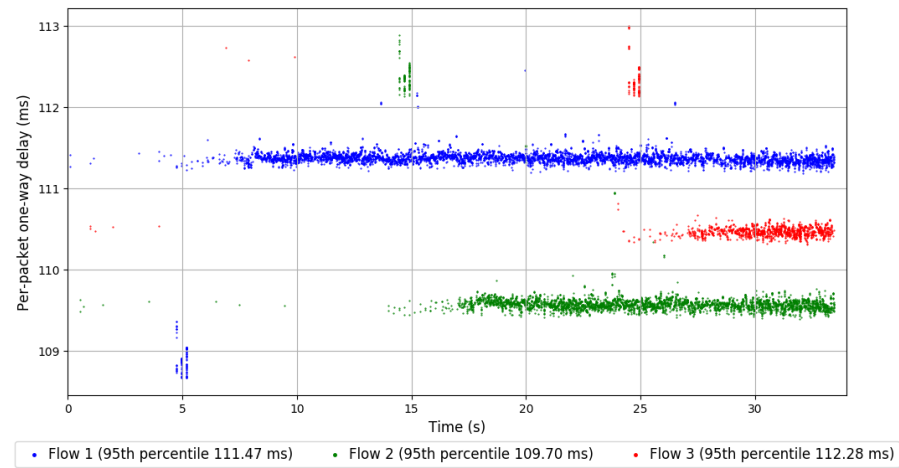
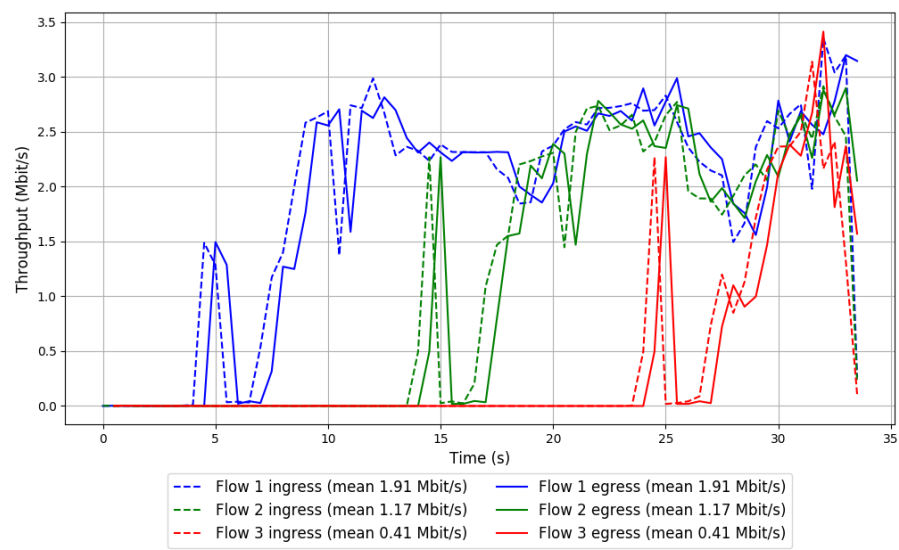


Run 9: Statistics of WebRTC media

Start at: 2018-06-05 22:47:46
End at: 2018-06-05 22:48:16
Local clock offset: -0.331 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 111.461 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 111.467 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 109.698 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 112.278 ms
Loss rate: 1.47%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-05 23:12:21
End at: 2018-06-05 23:12:51
Local clock offset: -0.068 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-06-06 01:12:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 112.905 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 112.924 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 112.389 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 113.114 ms
Loss rate: 4.39%

Run 10: Report of WebRTC media — Data Link

