

Pantheon Report

Generated at 2018-06-19 05:41:51 (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.

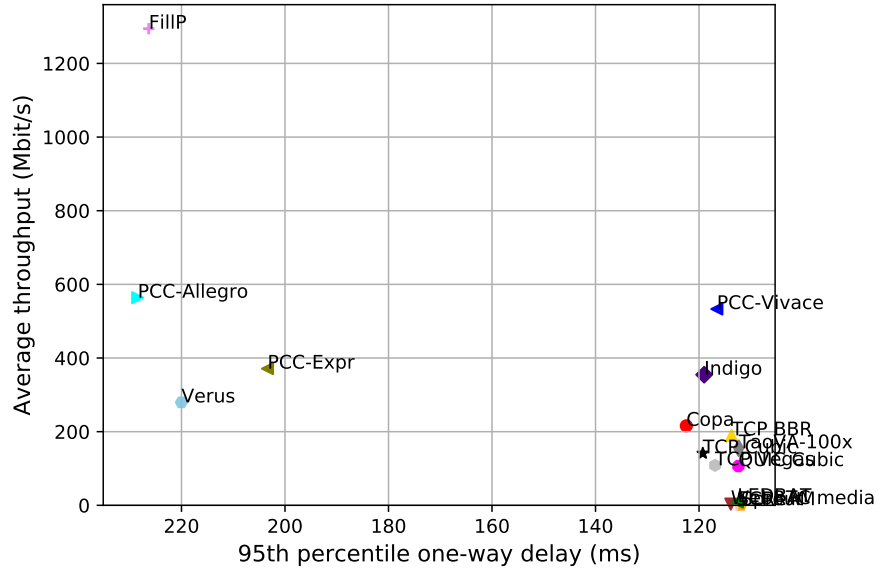
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

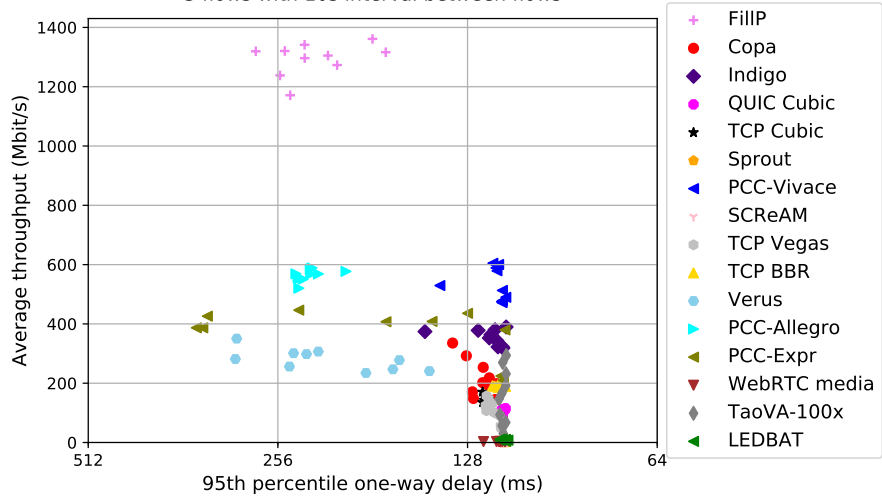
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/llnwd @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from 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



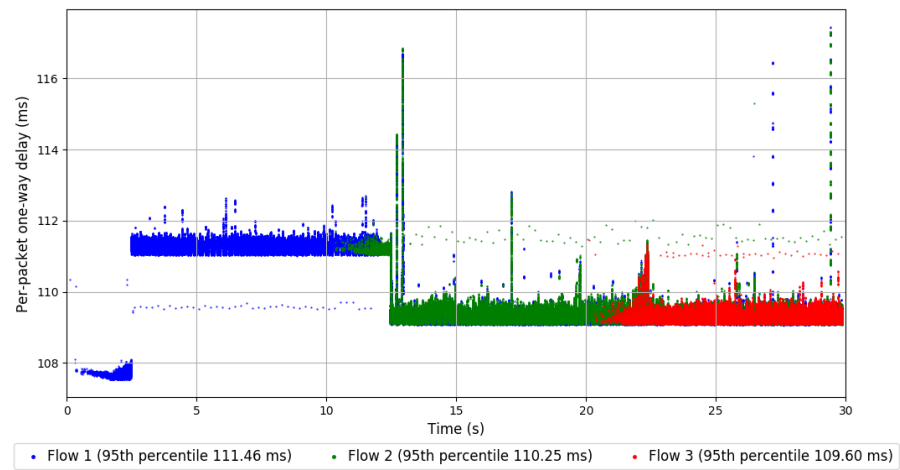
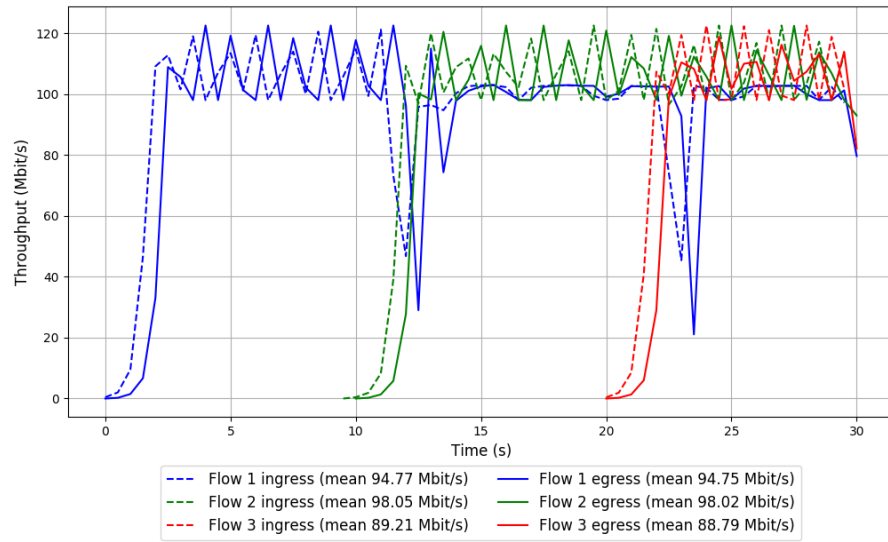
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	97.56	95.92	88.40	113.58	113.82	113.55	0.73	1.24	2.71
Copa	10	126.33	92.22	86.70	122.61	118.46	119.93	0.96	0.96	2.78
TCP Cubic	10	78.07	78.46	34.55	118.99	119.63	119.94	0.96	1.34	5.13
FillP	10	695.86	640.30	532.68	229.57	205.63	162.67	2.97	1.94	3.19
Indigo	10	192.69	176.34	138.72	115.79	119.36	125.12	0.73	1.10	2.81
LEDBAT	10	5.65	4.33	1.76	112.57	112.64	112.36	1.67	2.37	5.20
PCC-Allegro	10	507.42	62.31	46.55	228.76	227.82	223.41	3.01	2.96	4.69
PCC-Expr	10	242.71	164.25	60.36	190.73	166.48	148.74	3.69	5.10	4.59
QUIC Cubic	10	57.73	53.33	40.92	111.81	111.99	111.57	0.85	1.53	2.80
SCReAM	10	0.21	0.21	0.22	112.39	111.03	112.78	0.75	1.21	2.14
Sprout	10	0.19	0.22	0.26	111.87	111.75	111.60	0.55	0.75	1.78
TaoVA-100x	10	90.24	83.10	32.65	112.17	112.19	112.10	0.83	1.05	2.20
TCP Vegas	10	63.02	44.65	49.24	116.00	116.67	117.23	0.80	1.28	2.57
Verus	10	172.37	128.19	70.05	187.82	216.34	215.78	1.83	4.60	5.19
PCC-Vivace	10	333.59	227.21	150.79	117.49	119.85	121.80	0.77	1.28	3.39
WebRTC media	10	1.86	1.15	0.41	113.08	112.56	113.56	0.92	1.42	1.72

Run 1: Statistics of TCP BBR

Start at: 2018-06-18 23:51:31
End at: 2018-06-18 23:52:01
Local clock offset: -1.297 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-19 03:53:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 188.83 Mbit/s
95th percentile per-packet one-way delay: 111.400 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 111.456 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 98.02 Mbit/s
95th percentile per-packet one-way delay: 110.248 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 109.604 ms
Loss rate: 2.76%

Run 1: Report of TCP BBR — Data Link

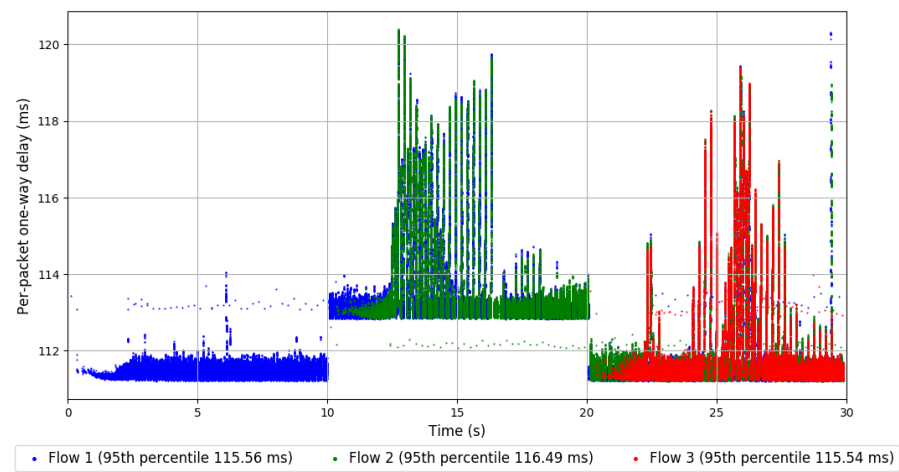
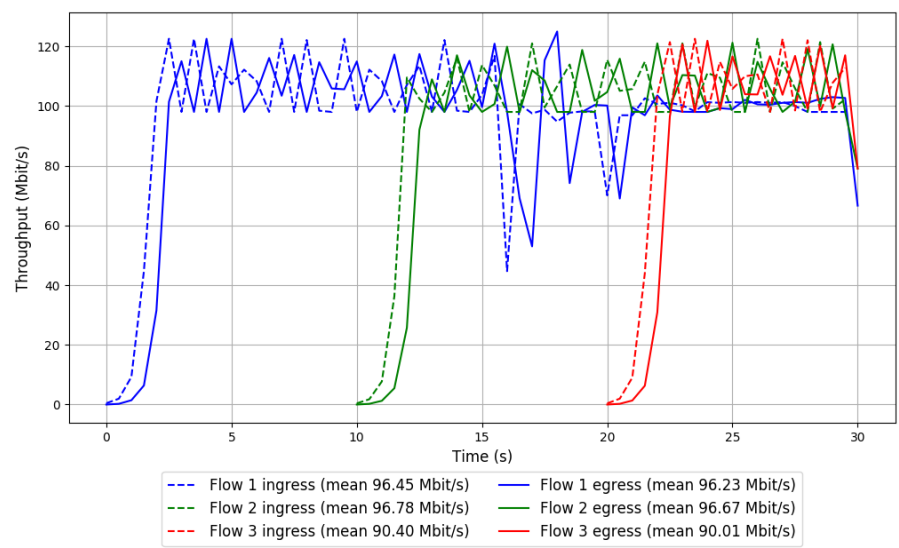


Run 2: Statistics of TCP BBR

Start at: 2018-06-19 00:15:53
End at: 2018-06-19 00:16:23
Local clock offset: 0.311 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-06-19 03:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 189.81 Mbit/s
95th percentile per-packet one-way delay: 115.909 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 115.555 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 116.492 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 90.01 Mbit/s
95th percentile per-packet one-way delay: 115.541 ms
Loss rate: 2.72%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-19 00:40:09

End at: 2018-06-19 00:40:39

Local clock offset: 0.008 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-06-19 03:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.84 Mbit/s

95th percentile per-packet one-way delay: 112.809 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 113.046 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 97.62 Mbit/s

95th percentile per-packet one-way delay: 113.035 ms

Loss rate: 1.20%

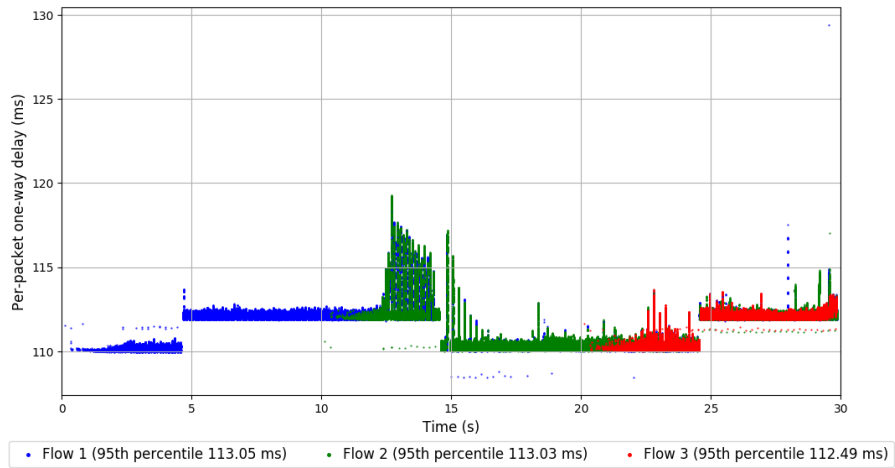
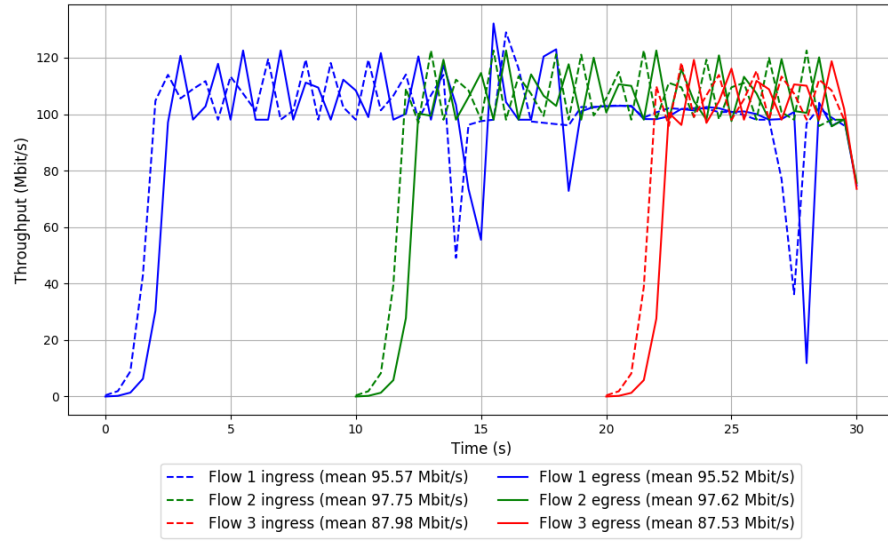
-- Flow 3:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 112.492 ms

Loss rate: 2.81%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 01:04:20

End at: 2018-06-19 01:04:50

Local clock offset: 0.528 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-19 03:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.99 Mbit/s

95th percentile per-packet one-way delay: 112.784 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 112.804 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 112.677 ms

Loss rate: 1.27%

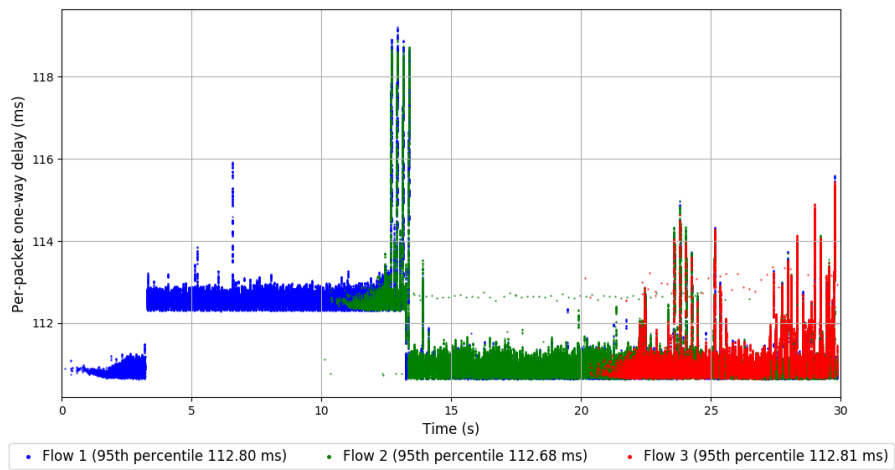
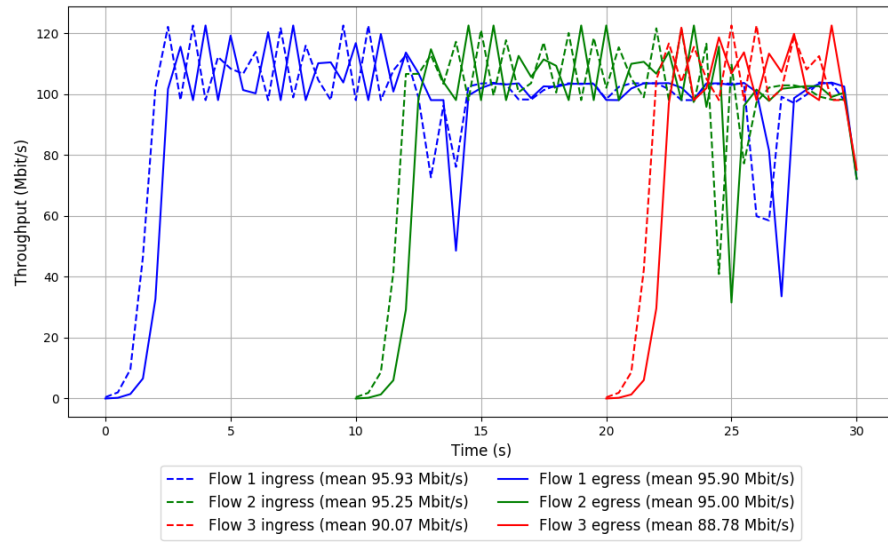
-- Flow 3:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 112.809 ms

Loss rate: 2.63%

Run 4: Report of TCP BBR — Data Link

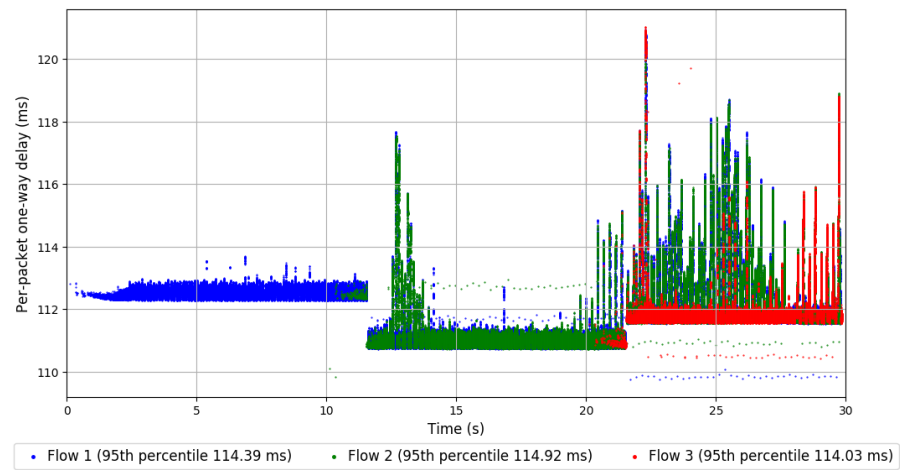
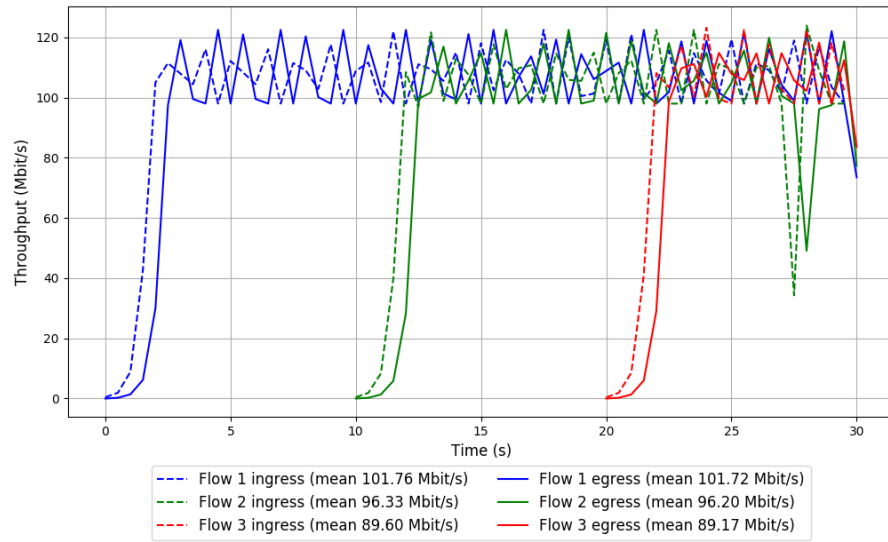


Run 5: Statistics of TCP BBR

Start at: 2018-06-19 01:28:42
End at: 2018-06-19 01:29:12
Local clock offset: 0.698 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-19 03:53:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 194.33 Mbit/s
95th percentile per-packet one-way delay: 114.532 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 101.72 Mbit/s
95th percentile per-packet one-way delay: 114.392 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 114.920 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 114.026 ms
Loss rate: 2.75%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-19 01:52:38

End at: 2018-06-19 01:53:08

Local clock offset: 2.008 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-19 03:53:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.22 Mbit/s

95th percentile per-packet one-way delay: 114.389 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 114.324 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 114.440 ms

Loss rate: 1.29%

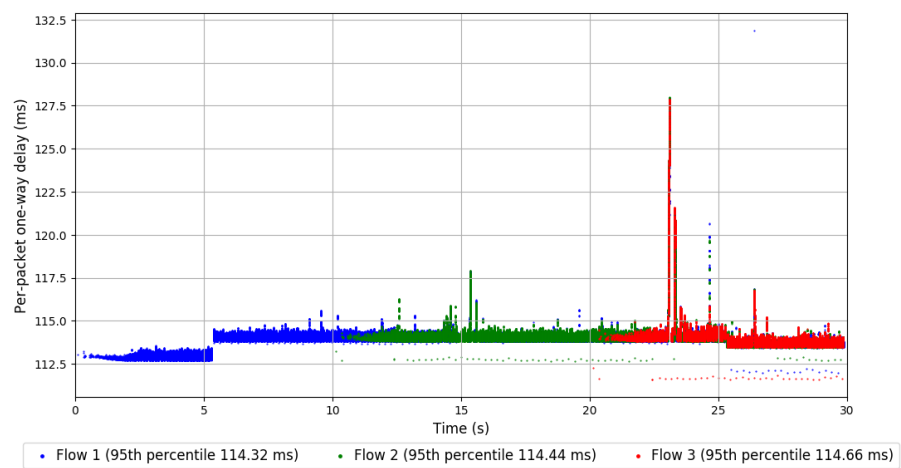
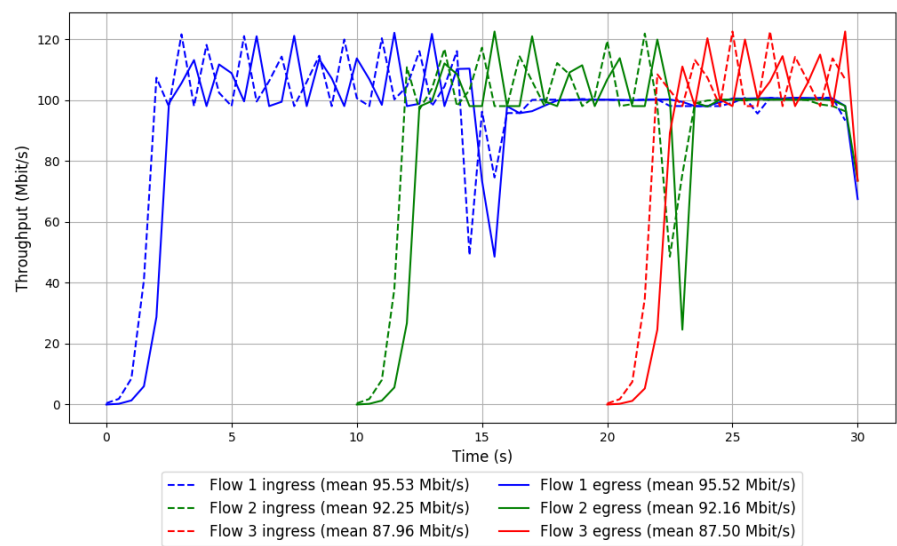
-- Flow 3:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 114.664 ms

Loss rate: 2.80%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-19 02:16:45

End at: 2018-06-19 02:17:15

Local clock offset: -1.315 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-19 03:53:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.15 Mbit/s

95th percentile per-packet one-way delay: 111.626 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 111.535 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 97.75 Mbit/s

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

Loss rate: 1.25%

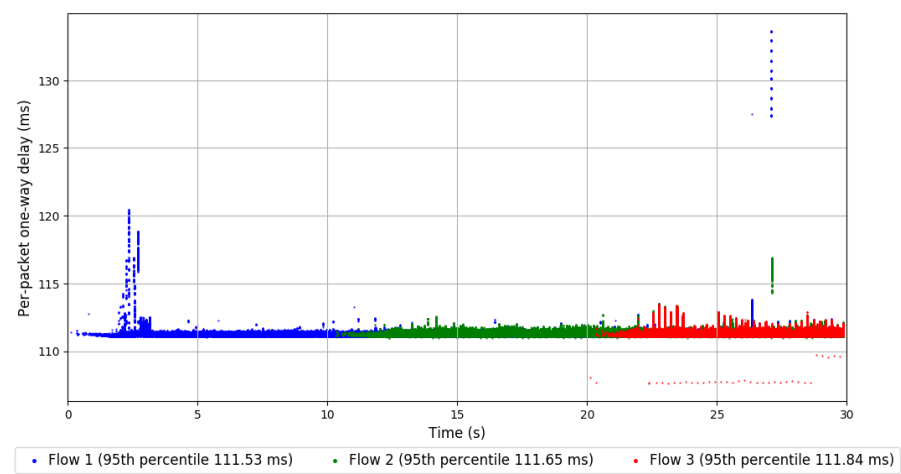
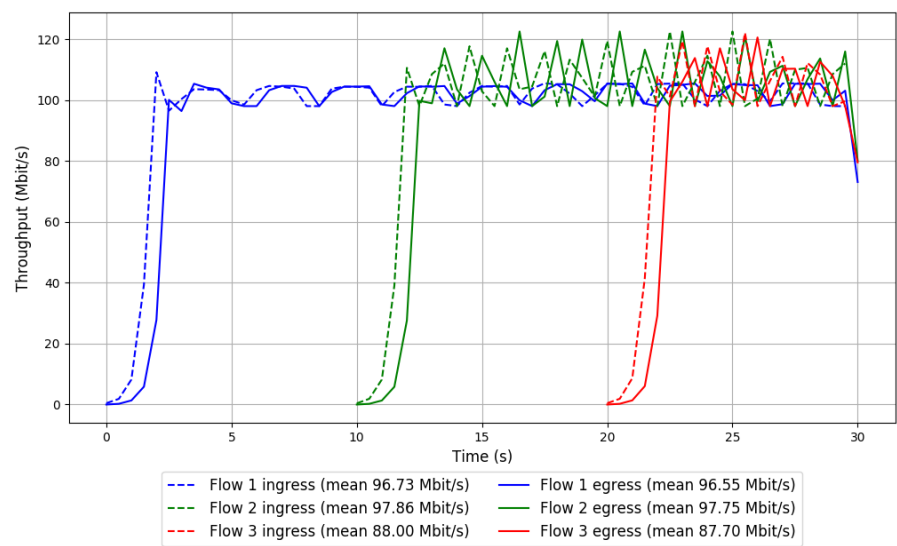
-- Flow 3:

Average throughput: 87.70 Mbit/s

95th percentile per-packet one-way delay: 111.840 ms

Loss rate: 2.54%

Run 7: Report of TCP BBR — Data Link

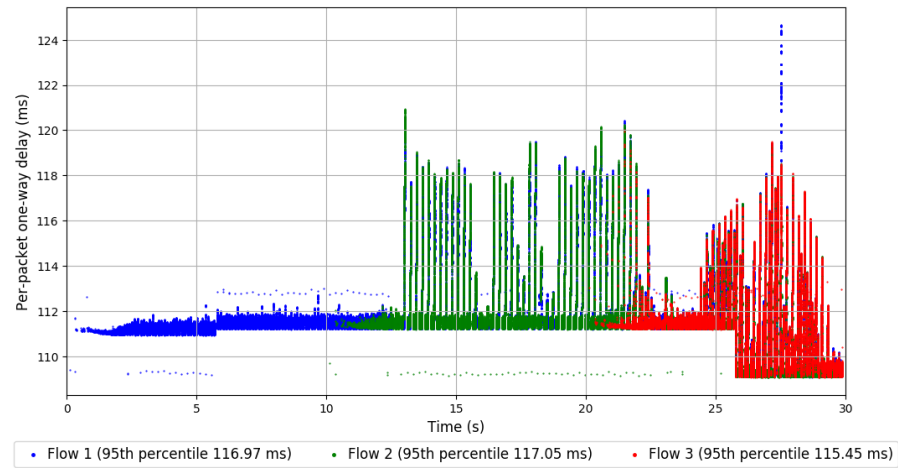
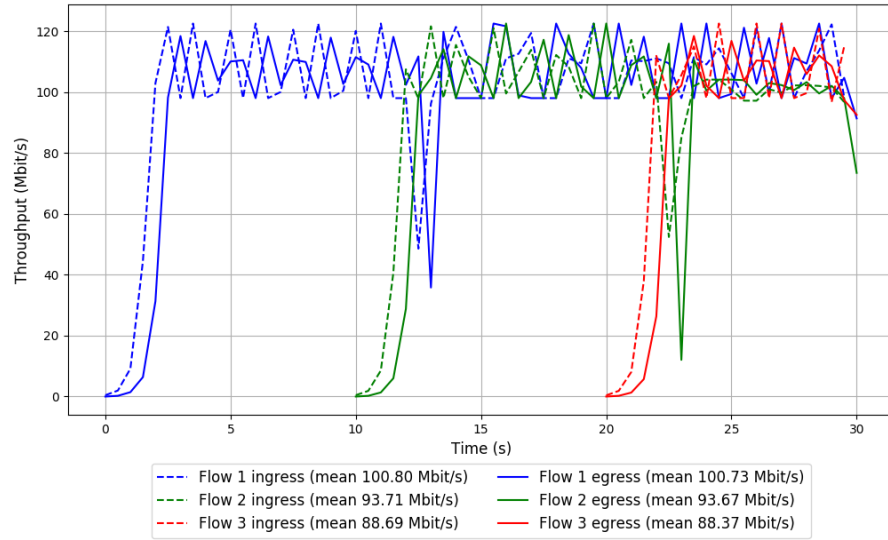


Run 8: Statistics of TCP BBR

Start at: 2018-06-19 02:40:38
End at: 2018-06-19 02:41:08
Local clock offset: -0.198 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-06-19 03:53:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.73 Mbit/s
95th percentile per-packet one-way delay: 116.801 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 100.73 Mbit/s
95th percentile per-packet one-way delay: 116.971 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 117.054 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 115.446 ms
Loss rate: 2.62%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-19 03:04:14

End at: 2018-06-19 03:04:44

Local clock offset: -0.182 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-06-19 03:56:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 192.54 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 100.17 Mbit/s

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

Loss rate: 0.82%

-- Flow 2:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 113.348 ms

Loss rate: 1.39%

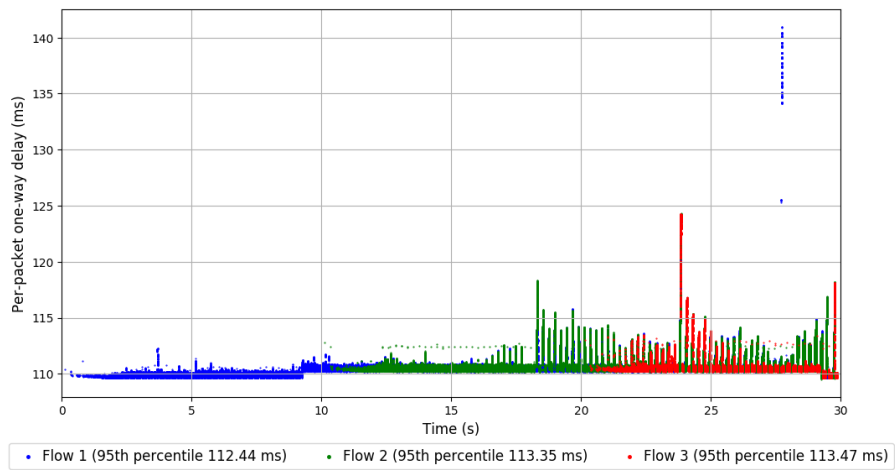
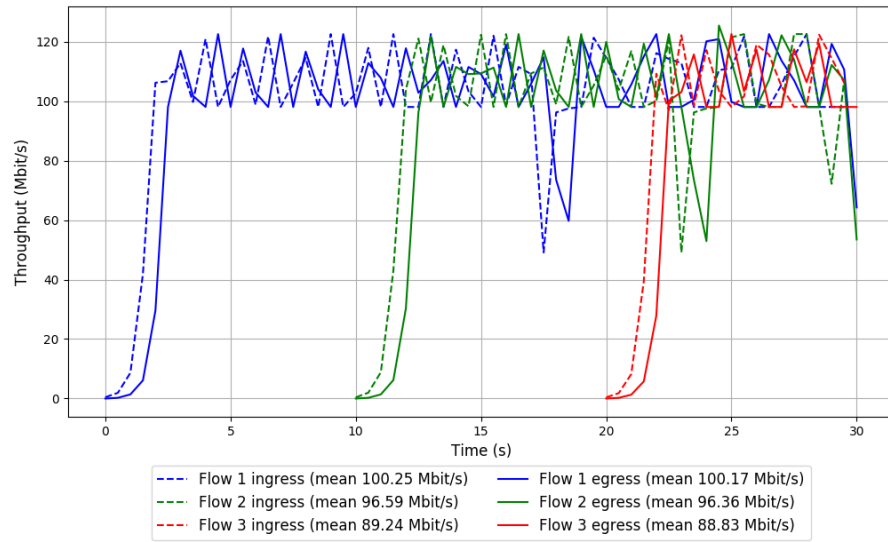
-- Flow 3:

Average throughput: 88.83 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 2.76%

Run 9: Report of TCP BBR — Data Link

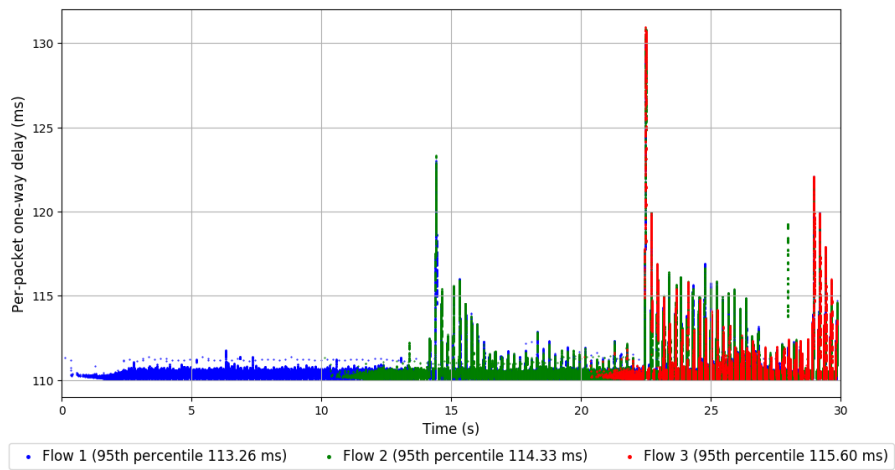
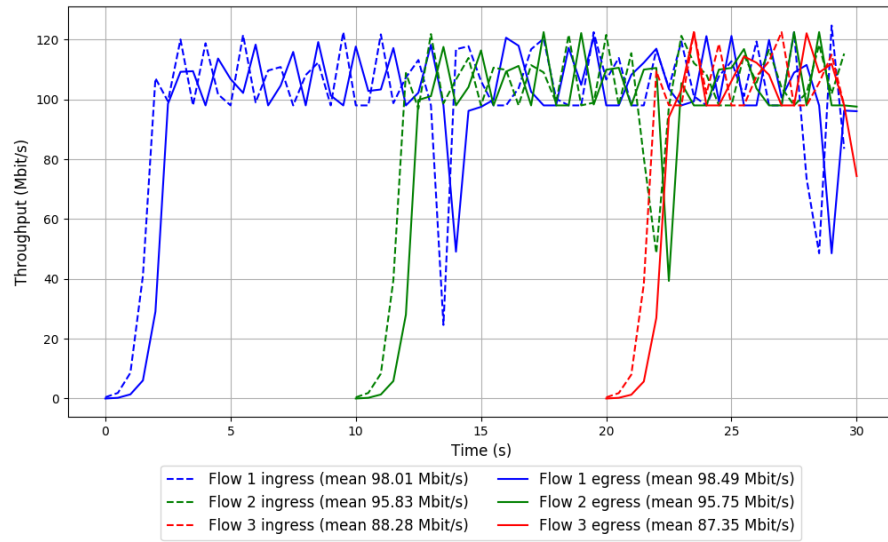


Run 10: Statistics of TCP BBR

Start at: 2018-06-19 03:28:34
End at: 2018-06-19 03:29:04
Local clock offset: -1.45 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-19 03:56:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 190.63 Mbit/s
95th percentile per-packet one-way delay: 113.947 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 98.49 Mbit/s
95th percentile per-packet one-way delay: 113.264 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 114.331 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 115.596 ms
Loss rate: 2.75%

Run 10: Report of TCP BBR — Data Link

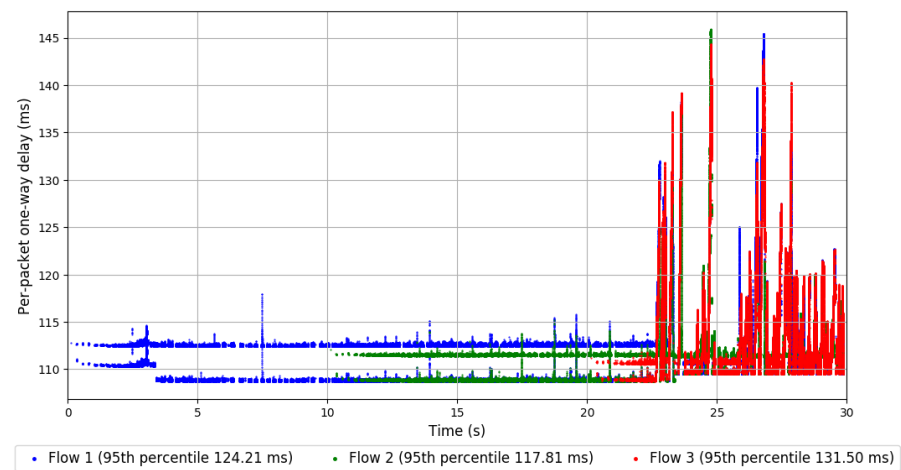
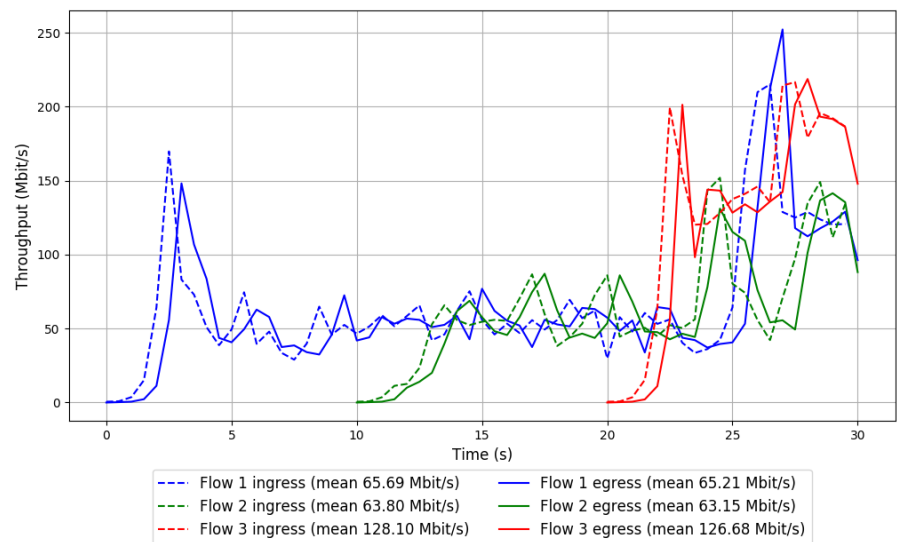


Run 1: Statistics of Copa

Start at: 2018-06-18 23:40:30
End at: 2018-06-18 23:41:00
Local clock offset: -0.063 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-19 03:57:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 148.54 Mbit/s
95th percentile per-packet one-way delay: 125.276 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 124.208 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 63.15 Mbit/s
95th percentile per-packet one-way delay: 117.808 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 126.68 Mbit/s
95th percentile per-packet one-way delay: 131.495 ms
Loss rate: 3.33%

Run 1: Report of Copa — Data Link

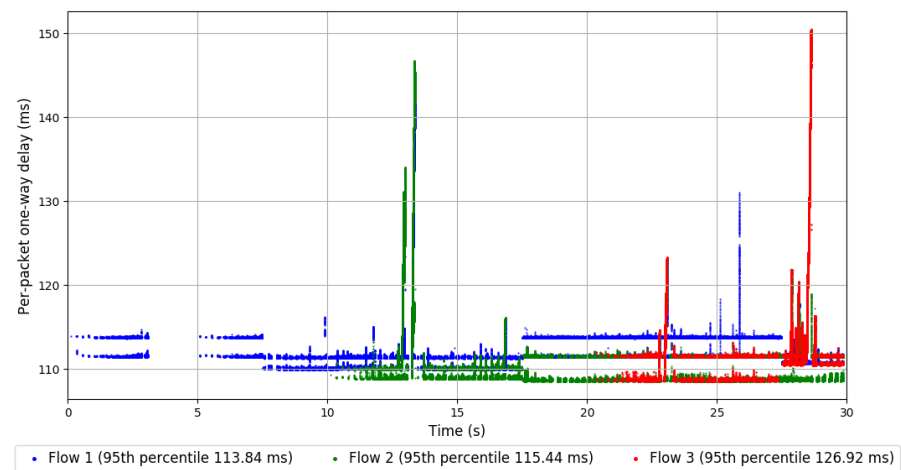
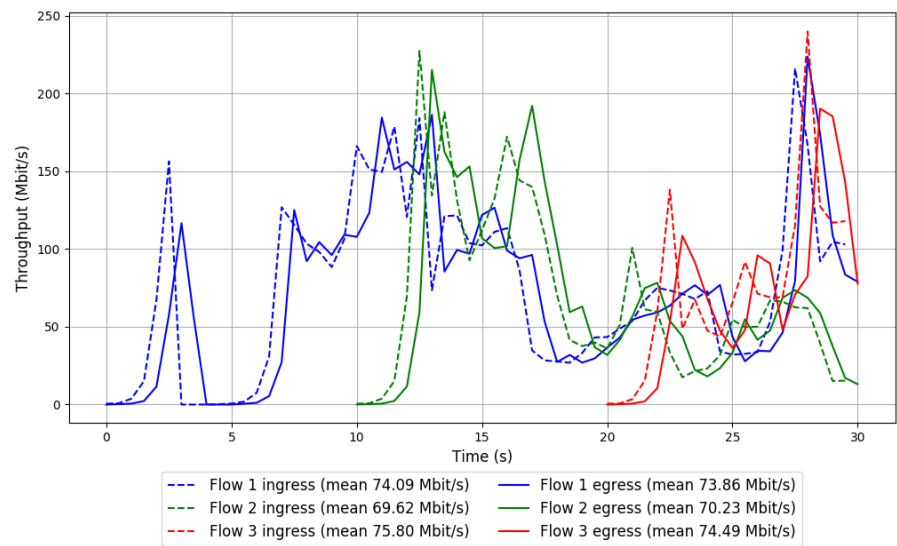


Run 2: Statistics of Copa

Start at: 2018-06-19 00:04:46
End at: 2018-06-19 00:05:16
Local clock offset: -1.258 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2018-06-19 03:57:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.86 Mbit/s
95th percentile per-packet one-way delay: 115.710 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 113.840 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 70.23 Mbit/s
95th percentile per-packet one-way delay: 115.440 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 74.49 Mbit/s
95th percentile per-packet one-way delay: 126.925 ms
Loss rate: 3.91%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-19 00:29:00

End at: 2018-06-19 00:29:30

Local clock offset: 0.513 ms

Remote clock offset: 0.18 ms

Below is generated by plot.py at 2018-06-19 03:58:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.90 Mbit/s

95th percentile per-packet one-way delay: 125.755 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 107.61 Mbit/s

95th percentile per-packet one-way delay: 134.678 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 70.83 Mbit/s

95th percentile per-packet one-way delay: 113.255 ms

Loss rate: 2.22%

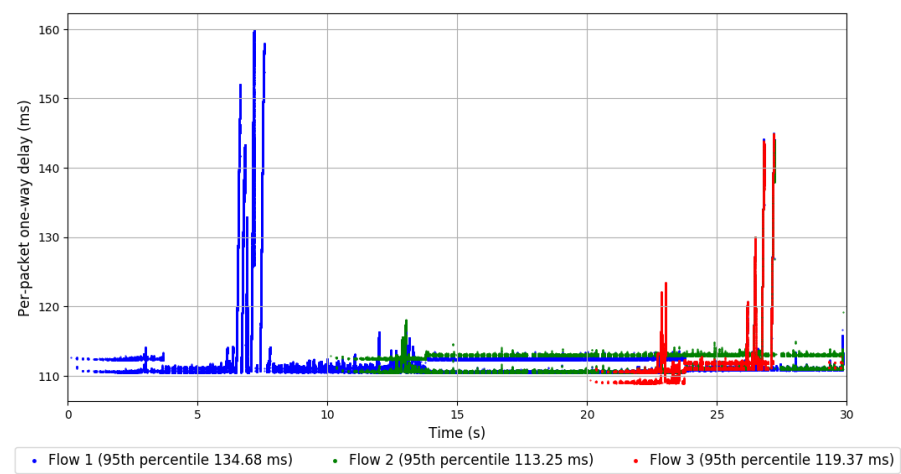
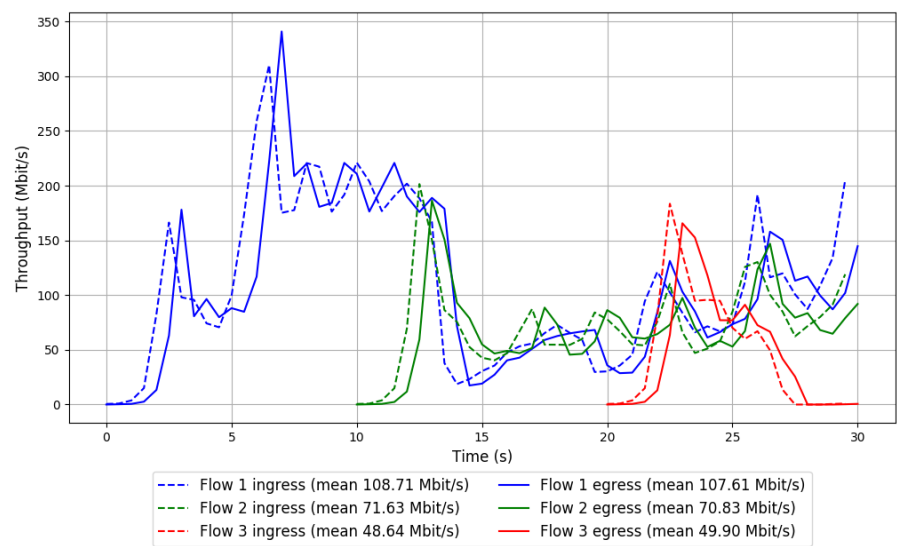
-- Flow 3:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 119.367 ms

Loss rate: 0.06%

Run 3: Report of Copa — Data Link

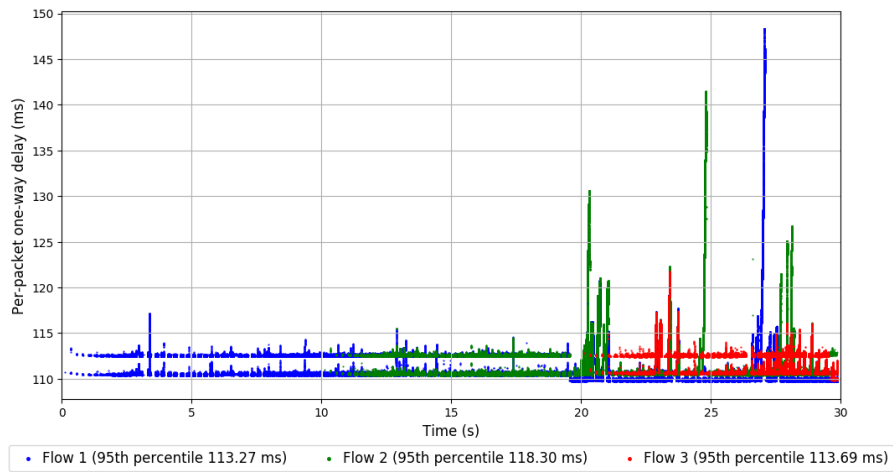
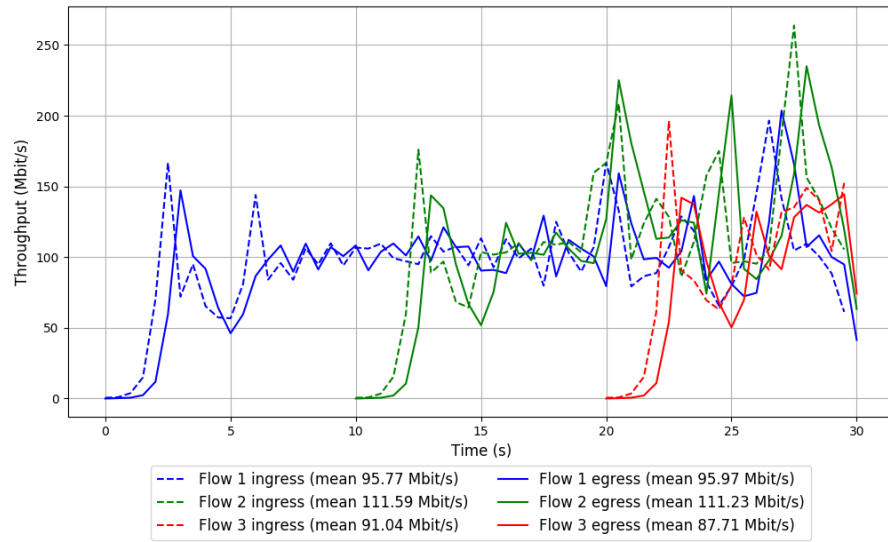


Run 4: Statistics of Copa

Start at: 2018-06-19 00:53:14
End at: 2018-06-19 00:53:44
Local clock offset: 0.242 ms
Remote clock offset: -0.277 ms

Below is generated by plot.py at 2018-06-19 03:59:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 198.47 Mbit/s
95th percentile per-packet one-way delay: 115.084 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 113.267 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 111.23 Mbit/s
95th percentile per-packet one-way delay: 118.299 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 113.695 ms
Loss rate: 4.93%

Run 4: Report of Copa — Data Link

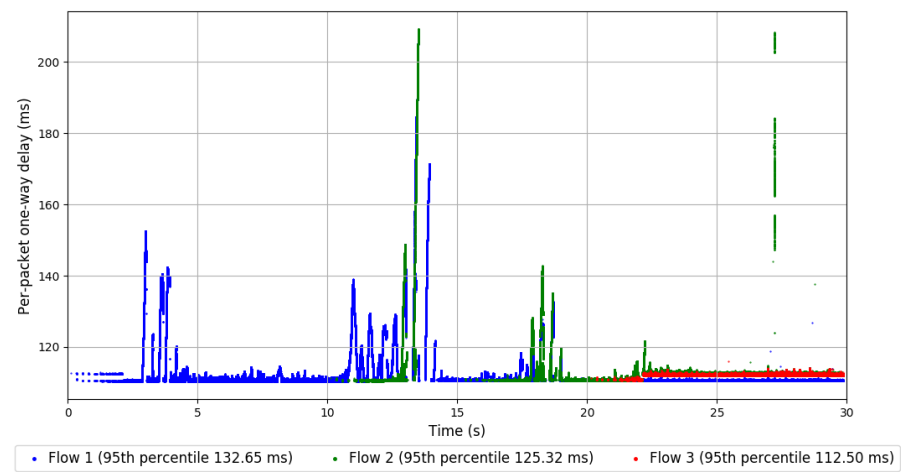
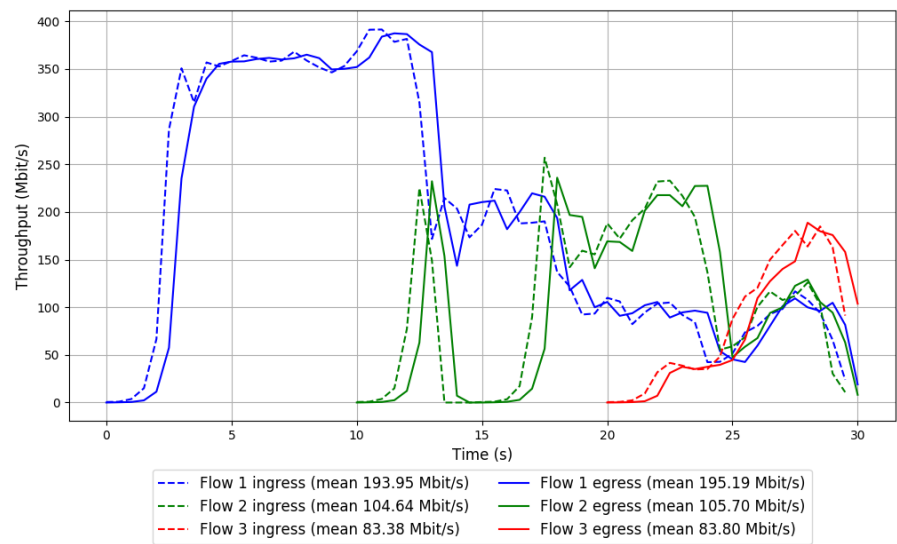


Run 5: Statistics of Copa

Start at: 2018-06-19 01:17:31
End at: 2018-06-19 01:18:01
Local clock offset: 0.5 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-19 04:02:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 292.45 Mbit/s
95th percentile per-packet one-way delay: 128.560 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 195.19 Mbit/s
95th percentile per-packet one-way delay: 132.646 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 105.70 Mbit/s
95th percentile per-packet one-way delay: 125.319 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 83.80 Mbit/s
95th percentile per-packet one-way delay: 112.495 ms
Loss rate: 1.73%

Run 5: Report of Copa — Data Link

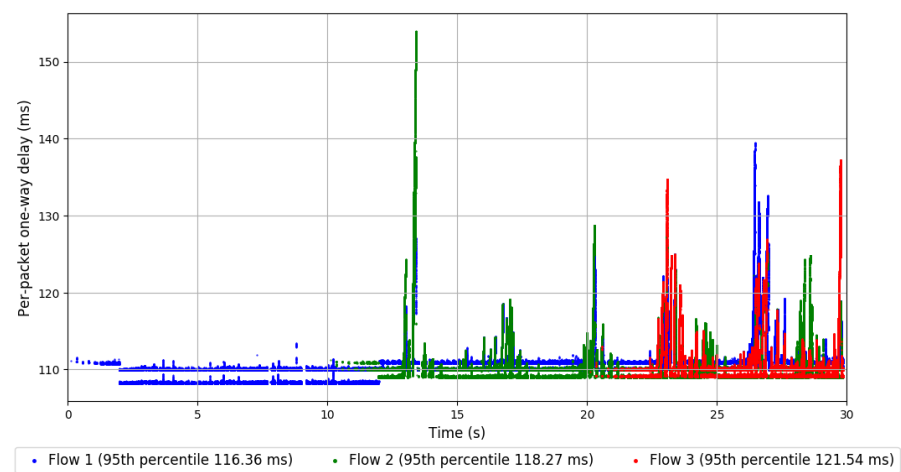
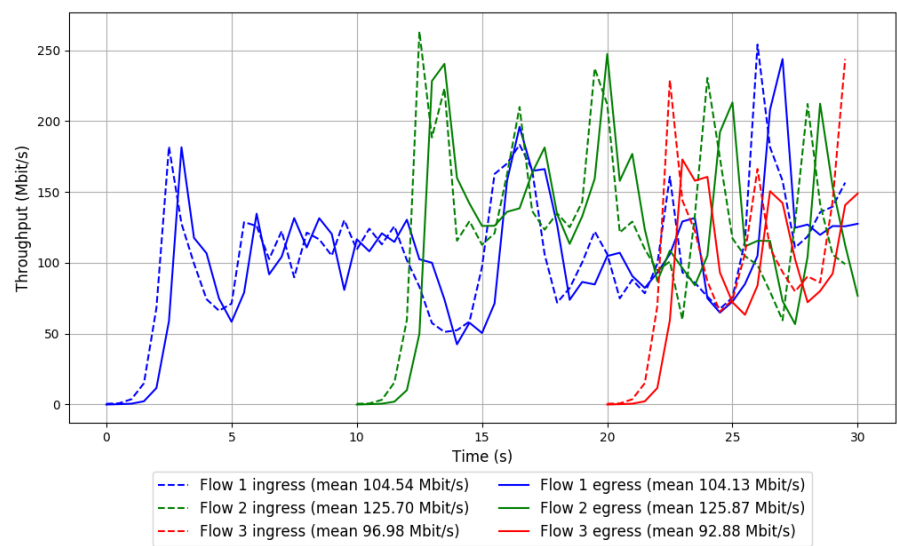


Run 6: Statistics of Copa

Start at: 2018-06-19 01:41:41
End at: 2018-06-19 01:42:11
Local clock offset: -0.509 ms
Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-06-19 04:02:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 217.99 Mbit/s
95th percentile per-packet one-way delay: 118.223 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 104.13 Mbit/s
95th percentile per-packet one-way delay: 116.359 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 125.87 Mbit/s
95th percentile per-packet one-way delay: 118.268 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 121.542 ms
Loss rate: 6.38%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-19 02:05:26

End at: 2018-06-19 02:05:56

Local clock offset: -1.001 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-06-19 04:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.80 Mbit/s

95th percentile per-packet one-way delay: 121.106 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 110.98 Mbit/s

95th percentile per-packet one-way delay: 121.200 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 90.91 Mbit/s

95th percentile per-packet one-way delay: 120.462 ms

Loss rate: 0.17%

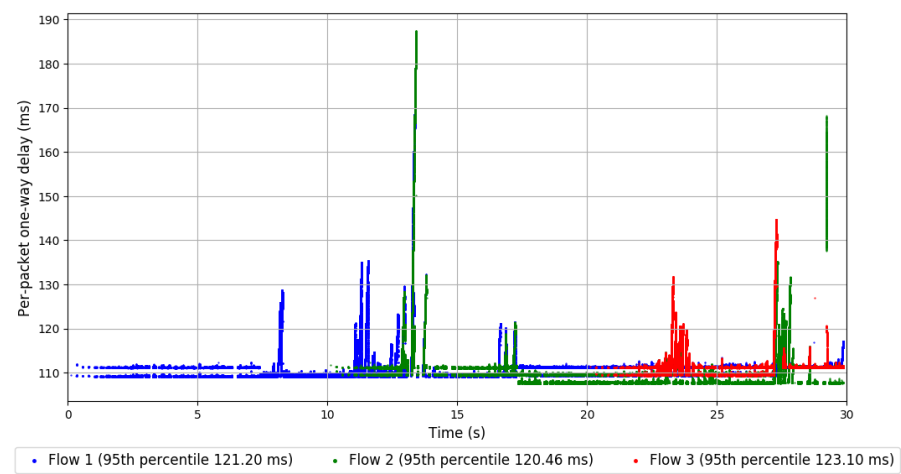
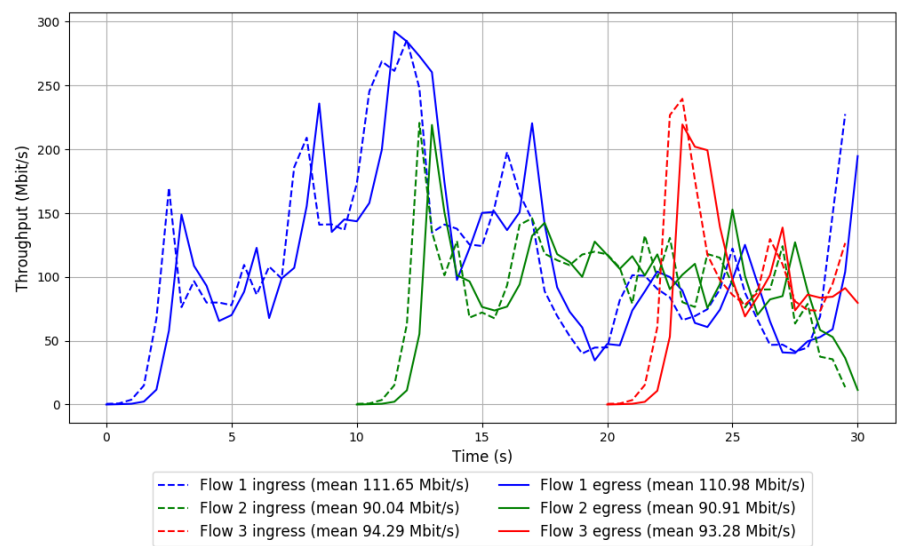
-- Flow 3:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 123.098 ms

Loss rate: 3.28%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-19 02:29:37

End at: 2018-06-19 02:30:07

Local clock offset: -0.352 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-19 04:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 194.40 Mbit/s

95th percentile per-packet one-way delay: 118.795 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 78.66 Mbit/s

95th percentile per-packet one-way delay: 112.066 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 116.45 Mbit/s

95th percentile per-packet one-way delay: 123.659 ms

Loss rate: 0.57%

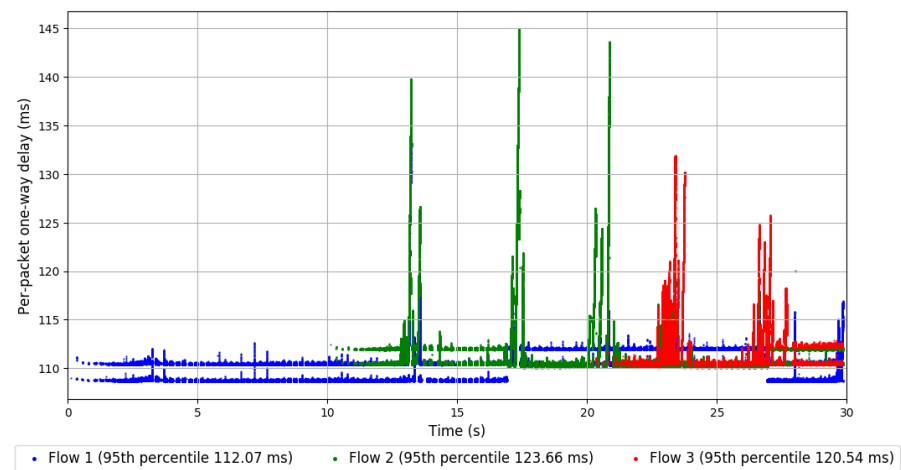
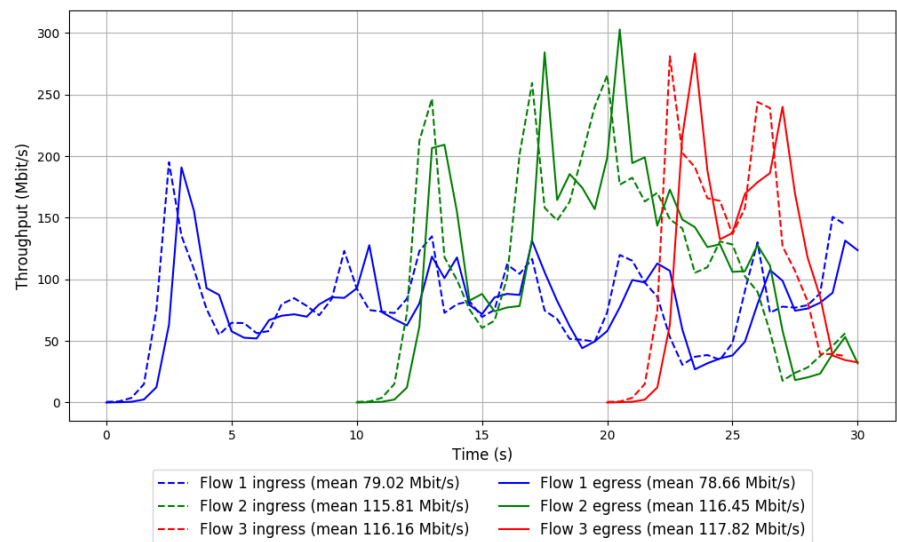
-- Flow 3:

Average throughput: 117.82 Mbit/s

95th percentile per-packet one-way delay: 120.540 ms

Loss rate: 0.84%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-19 02:53:25

End at: 2018-06-19 02:53:55

Local clock offset: -0.042 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-06-19 04:05:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.51 Mbit/s

95th percentile per-packet one-way delay: 120.865 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 158.25 Mbit/s

95th percentile per-packet one-way delay: 121.587 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 105.73 Mbit/s

95th percentile per-packet one-way delay: 119.454 ms

Loss rate: 1.19%

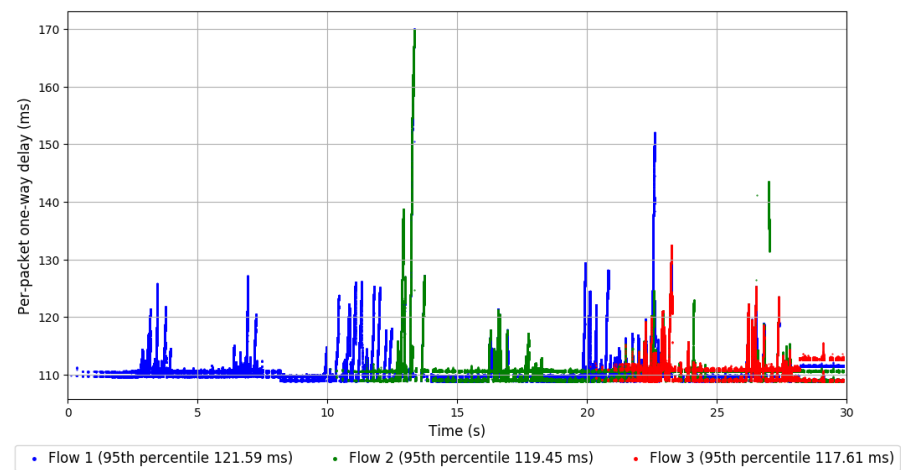
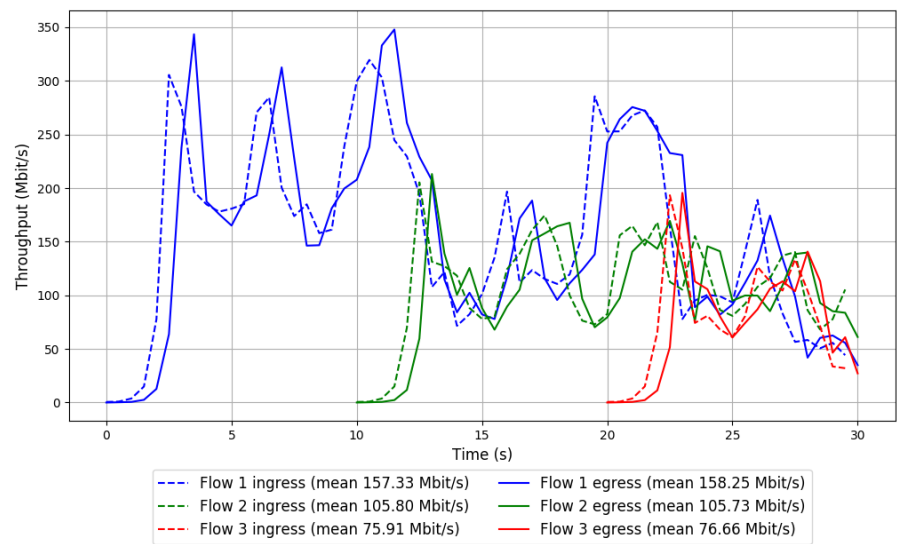
-- Flow 3:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 117.608 ms

Loss rate: 0.80%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-19 03:17:19

End at: 2018-06-19 03:17:49

Local clock offset: -0.245 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-19 04:07:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.49 Mbit/s

95th percentile per-packet one-way delay: 135.176 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 273.42 Mbit/s

95th percentile per-packet one-way delay: 136.282 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 62.14 Mbit/s

95th percentile per-packet one-way delay: 112.663 ms

Loss rate: 0.68%

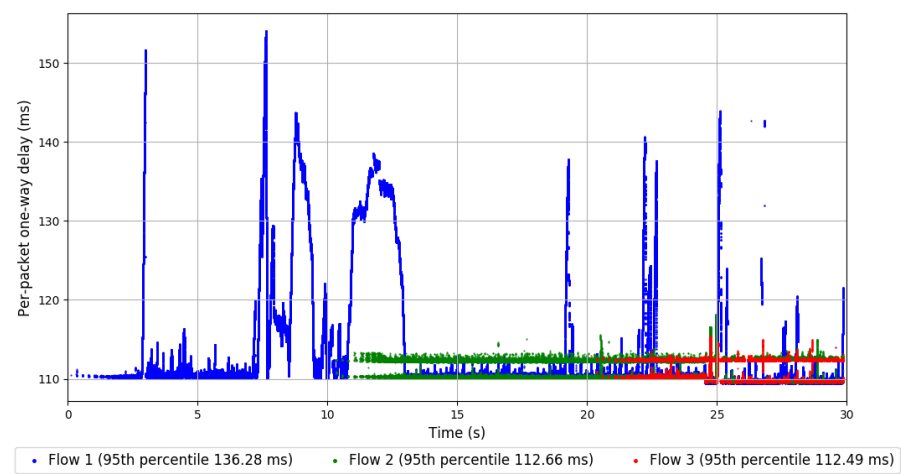
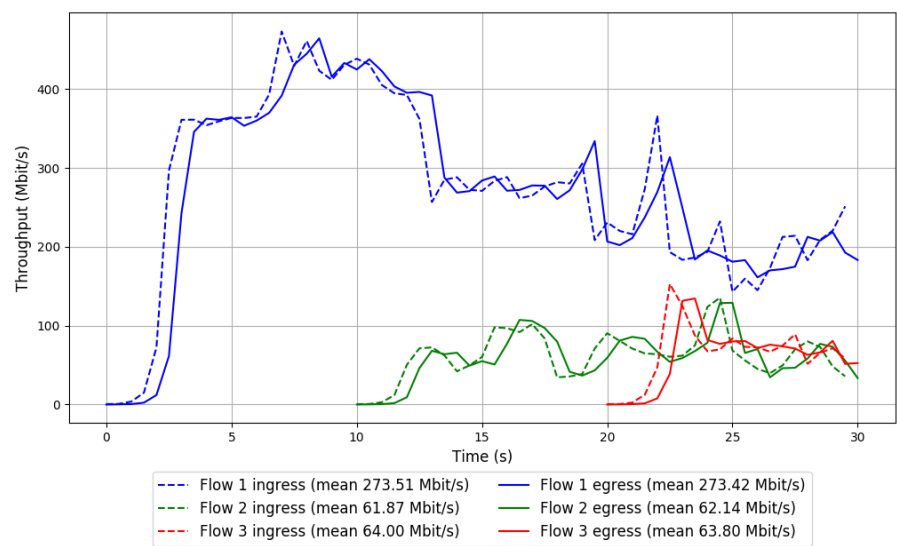
-- Flow 3:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 112.491 ms

Loss rate: 2.55%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-18 23:52:55

End at: 2018-06-18 23:53:25

Local clock offset: 0.136 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-06-19 04:07:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.72 Mbit/s

95th percentile per-packet one-way delay: 119.327 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 118.732 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 100.67 Mbit/s

95th percentile per-packet one-way delay: 119.817 ms

Loss rate: 1.23%

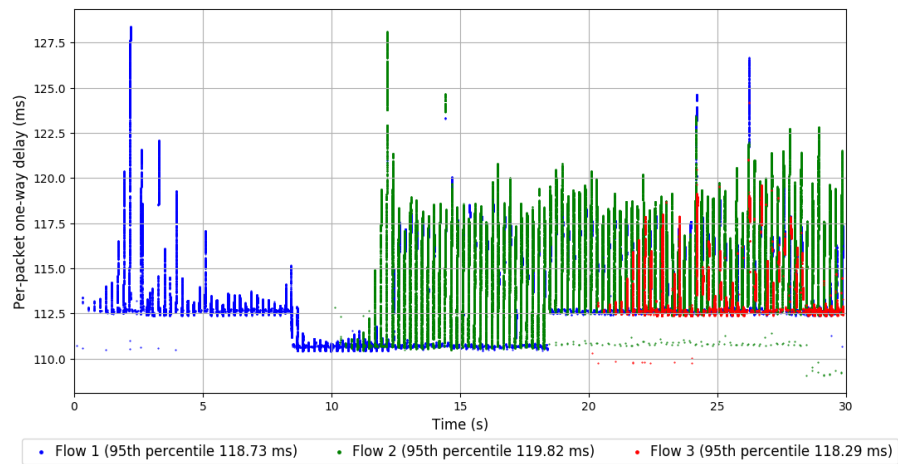
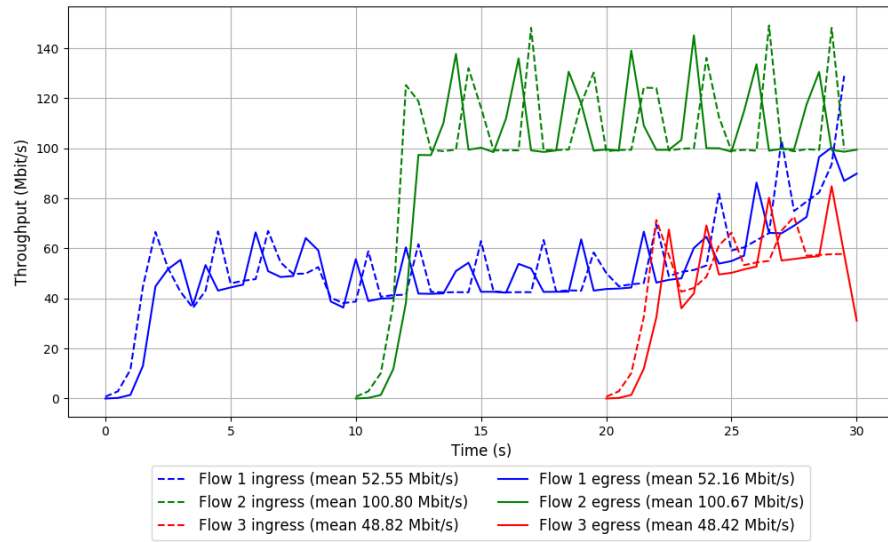
-- Flow 3:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 118.294 ms

Loss rate: 2.80%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 00:17:18

End at: 2018-06-19 00:17:48

Local clock offset: 1.491 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-19 04:07:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.24 Mbit/s

95th percentile per-packet one-way delay: 121.160 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 103.28 Mbit/s

95th percentile per-packet one-way delay: 121.045 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 101.19 Mbit/s

95th percentile per-packet one-way delay: 121.349 ms

Loss rate: 1.24%

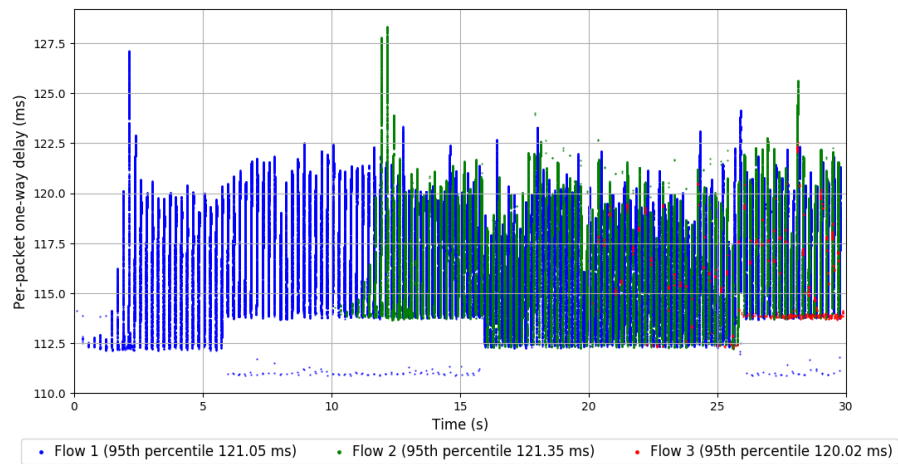
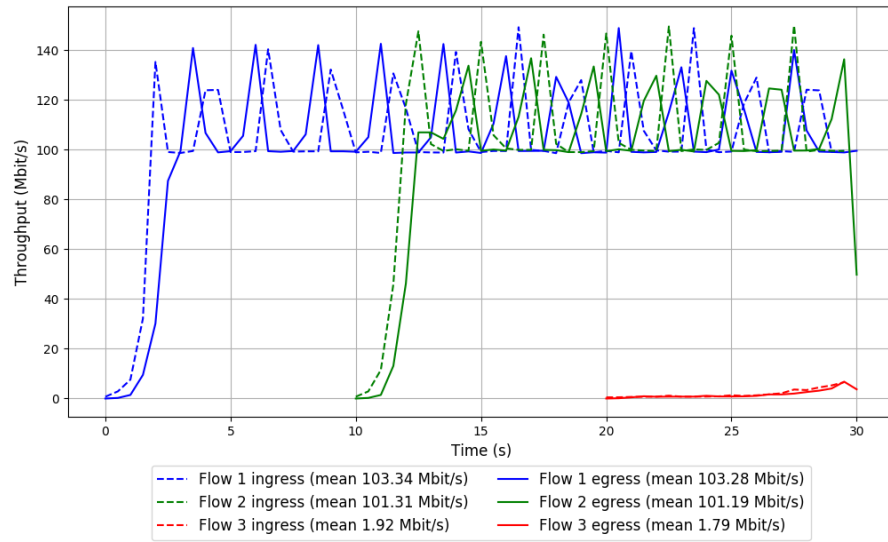
-- Flow 3:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 120.018 ms

Loss rate: 8.96%

Run 2: Report of TCP Cubic — Data Link

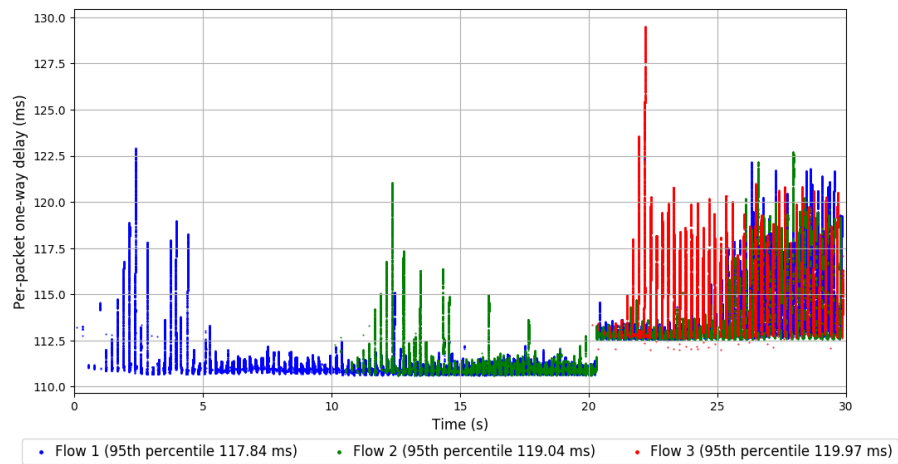
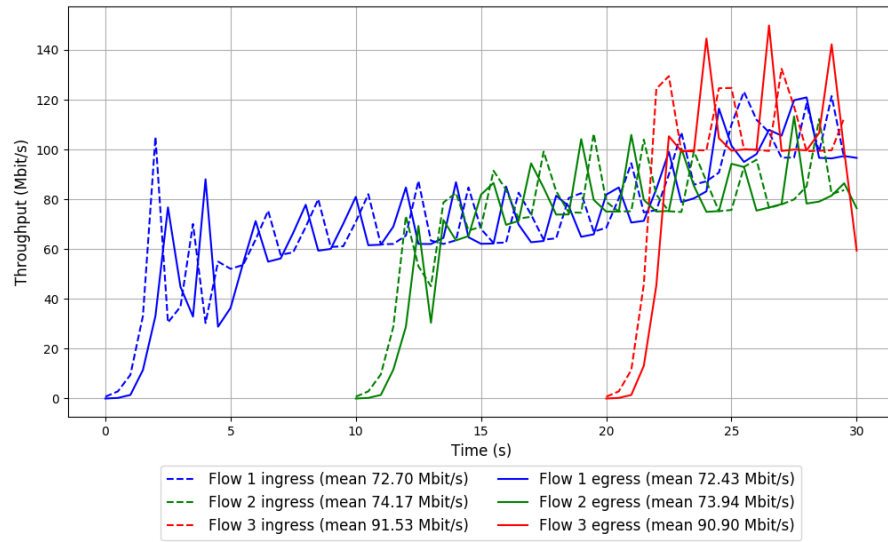


Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 00:41:33
End at: 2018-06-19 00:42:03
Local clock offset: 0.346 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-06-19 04:07:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.10 Mbit/s
95th percentile per-packet one-way delay: 119.062 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 117.840 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 119.038 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 119.966 ms
Loss rate: 2.92%

Run 3: Report of TCP Cubic — Data Link

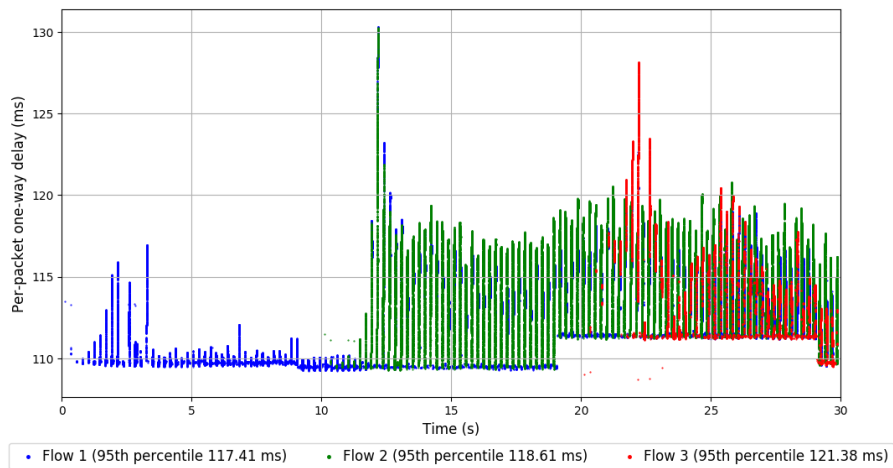
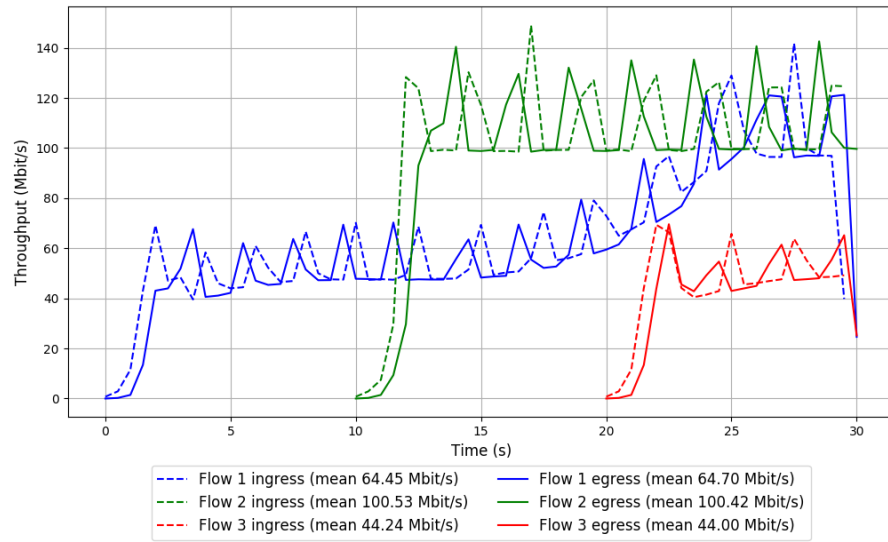


Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 01:05:44
End at: 2018-06-19 01:06:14
Local clock offset: -1.014 ms
Remote clock offset: -0.388 ms

Below is generated by plot.py at 2018-06-19 04:07:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 145.34 Mbit/s
95th percentile per-packet one-way delay: 118.391 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 64.70 Mbit/s
95th percentile per-packet one-way delay: 117.405 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 100.42 Mbit/s
95th percentile per-packet one-way delay: 118.606 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 44.00 Mbit/s
95th percentile per-packet one-way delay: 121.377 ms
Loss rate: 2.76%

Run 4: Report of TCP Cubic — Data Link

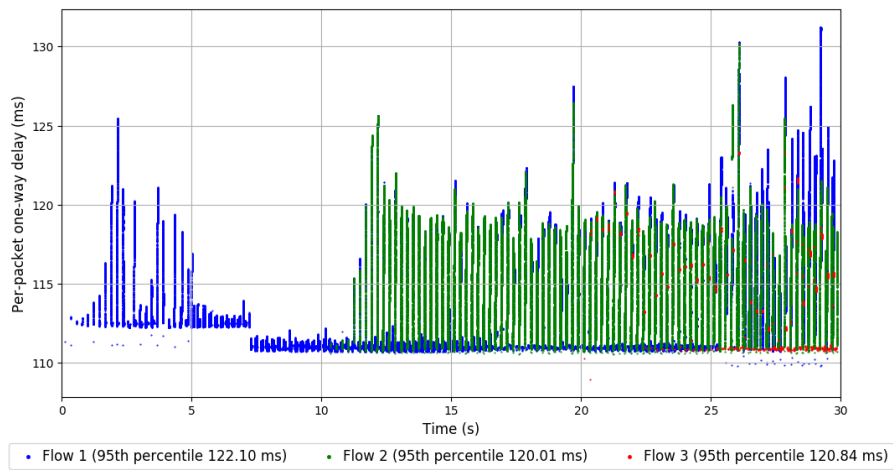
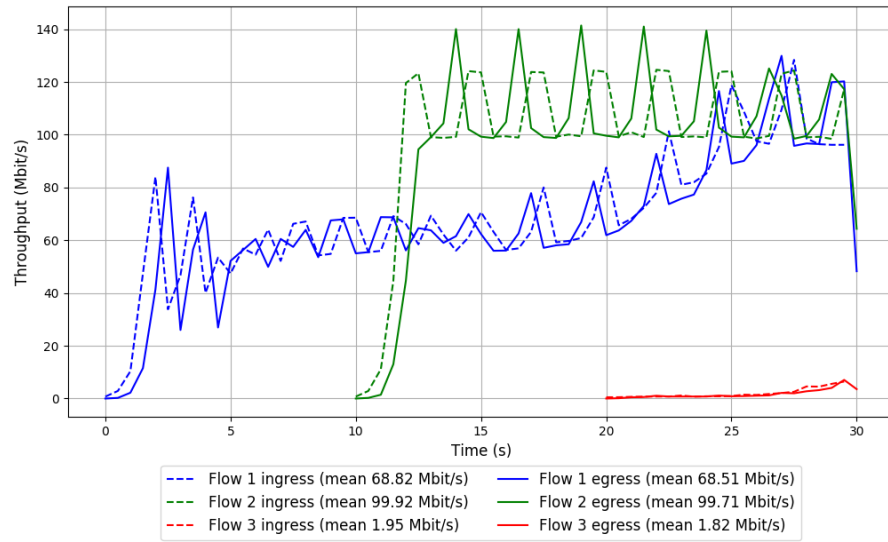


Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 01:30:06
End at: 2018-06-19 01:30:36
Local clock offset: 0.664 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-19 04:07:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 134.94 Mbit/s
95th percentile per-packet one-way delay: 121.144 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 68.51 Mbit/s
95th percentile per-packet one-way delay: 122.103 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 99.71 Mbit/s
95th percentile per-packet one-way delay: 120.006 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 120.838 ms
Loss rate: 8.99%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 01:54:01

End at: 2018-06-19 01:54:31

Local clock offset: 0.556 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-19 04:07:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.12 Mbit/s

95th percentile per-packet one-way delay: 120.459 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 120.206 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 121.279 ms

Loss rate: 1.38%

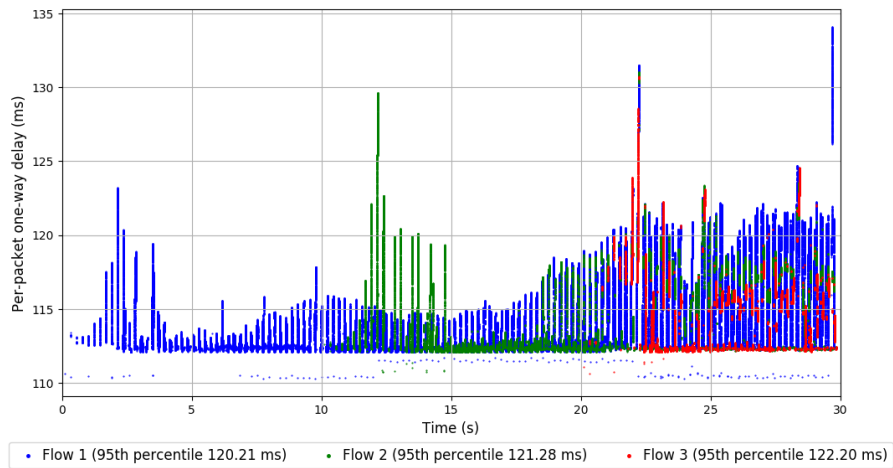
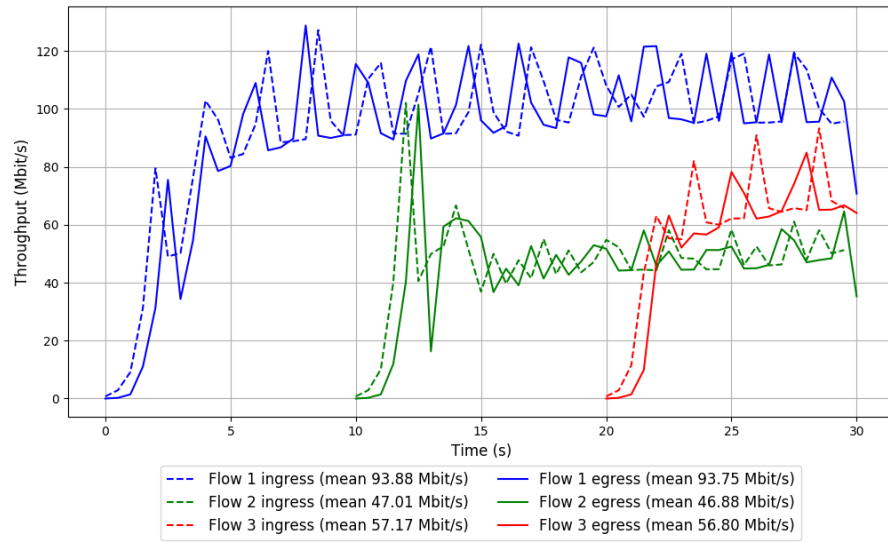
-- Flow 3:

Average throughput: 56.80 Mbit/s

95th percentile per-packet one-way delay: 122.200 ms

Loss rate: 2.88%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 02:18:09

End at: 2018-06-19 02:18:39

Local clock offset: -0.182 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-19 04:07:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.40 Mbit/s

95th percentile per-packet one-way delay: 119.657 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 119.967 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 55.85 Mbit/s

95th percentile per-packet one-way delay: 118.903 ms

Loss rate: 1.46%

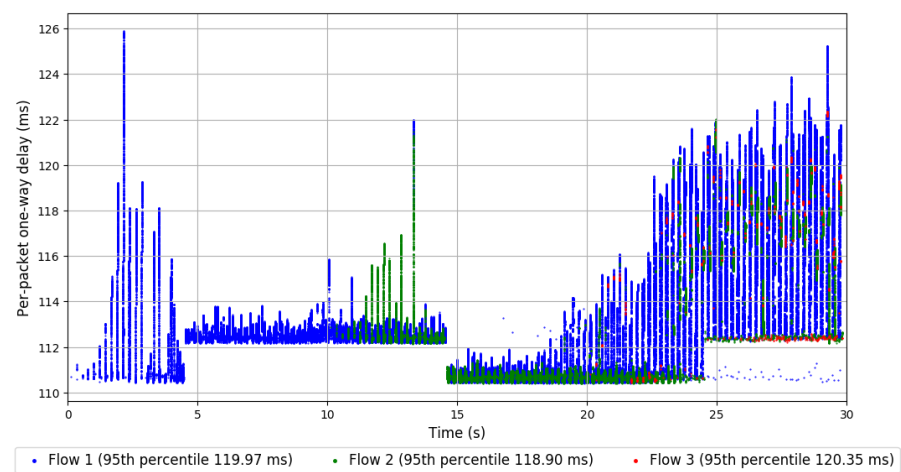
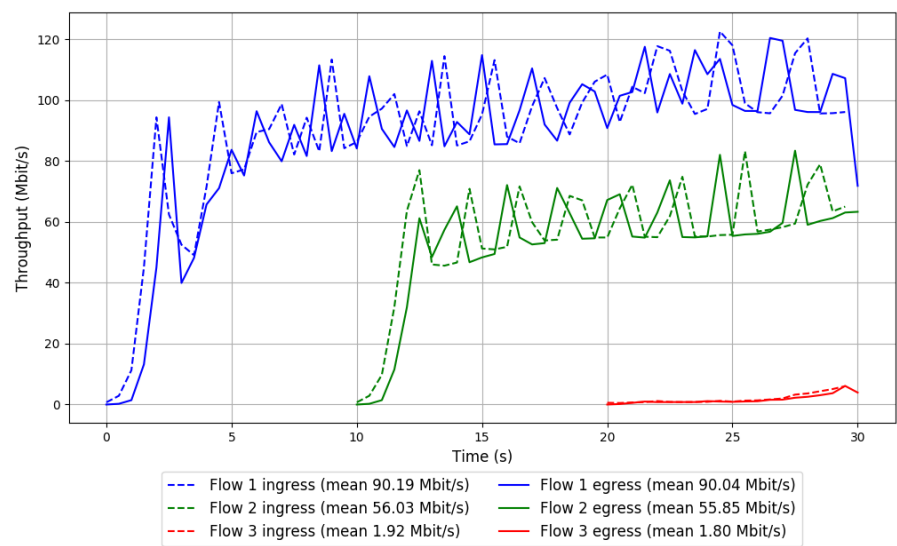
-- Flow 3:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 120.352 ms

Loss rate: 8.51%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 02:42:02

End at: 2018-06-19 02:42:32

Local clock offset: -0.097 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-06-19 04:07:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 113.898 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 112.894 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 53.12 Mbit/s

95th percentile per-packet one-way delay: 115.291 ms

Loss rate: 1.41%

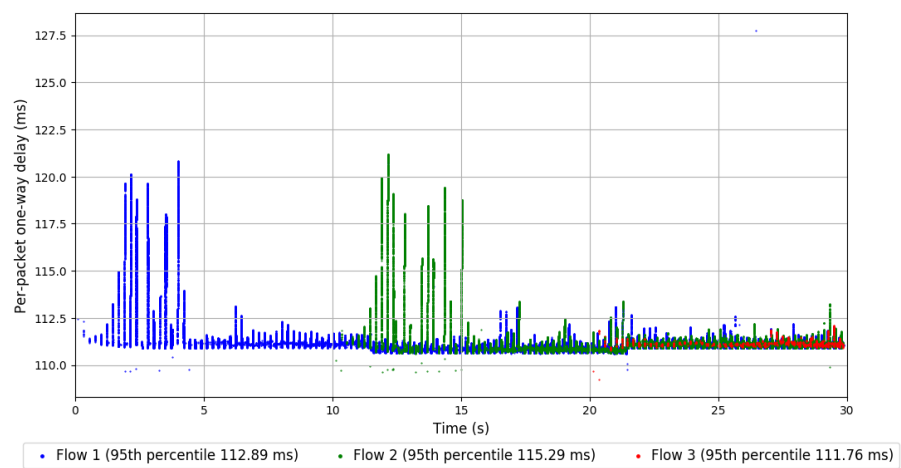
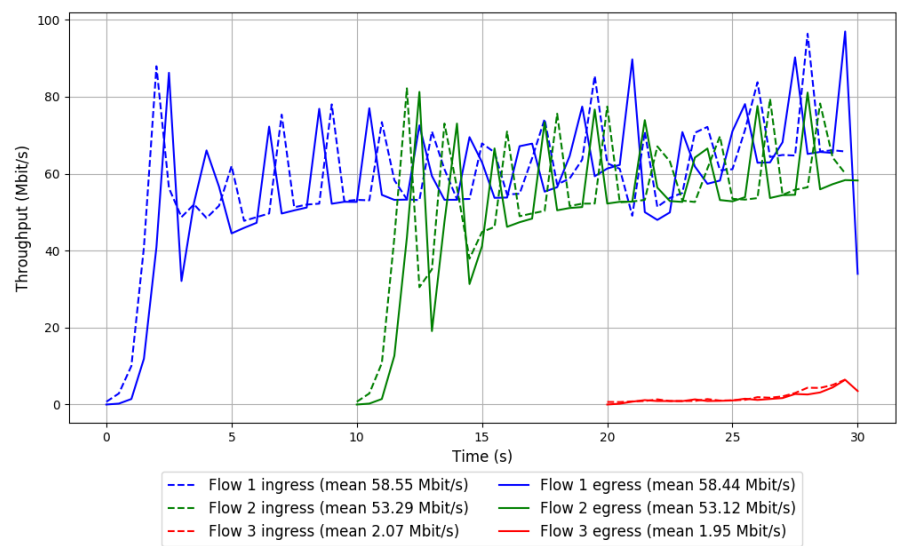
-- Flow 3:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 111.759 ms

Loss rate: 7.79%

Run 8: Report of TCP Cubic — Data Link

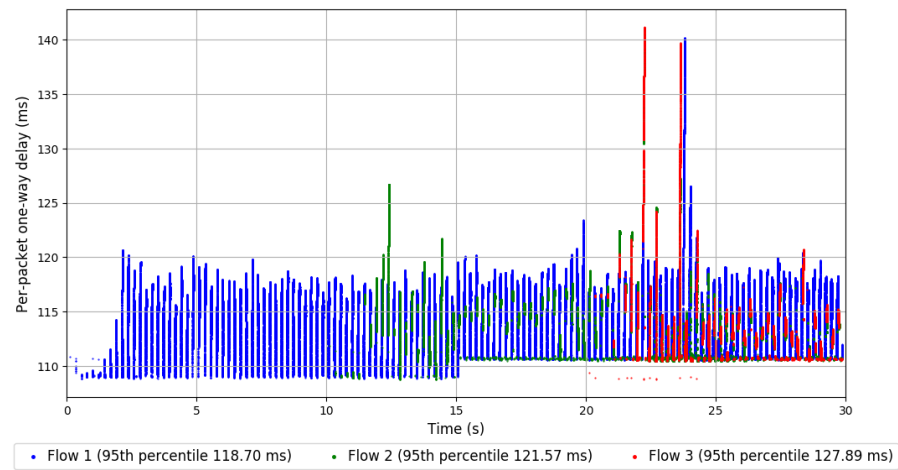
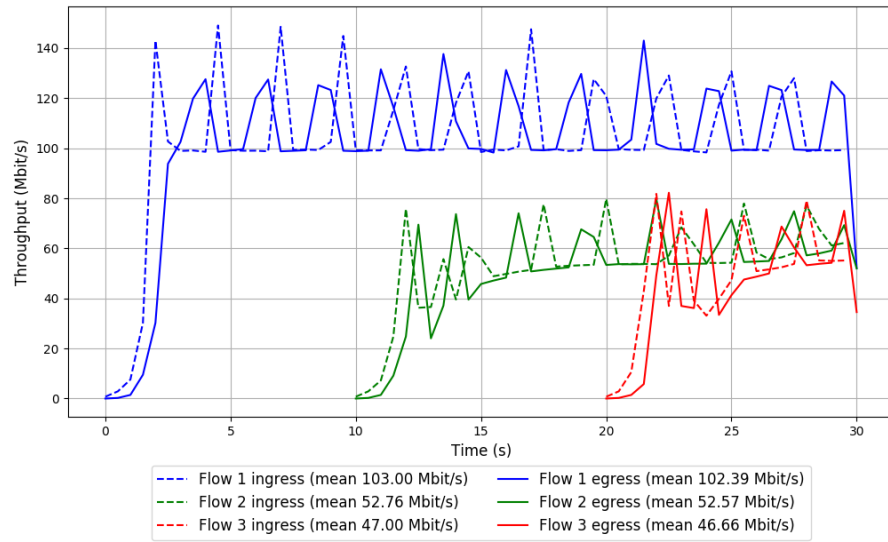


Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 03:05:38
End at: 2018-06-19 03:06:08
Local clock offset: -1.436 ms
Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-06-19 04:07:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 152.51 Mbit/s
95th percentile per-packet one-way delay: 119.098 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 102.39 Mbit/s
95th percentile per-packet one-way delay: 118.700 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 52.57 Mbit/s
95th percentile per-packet one-way delay: 121.569 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 46.66 Mbit/s
95th percentile per-packet one-way delay: 127.895 ms
Loss rate: 2.94%

Run 9: Report of TCP Cubic — Data Link

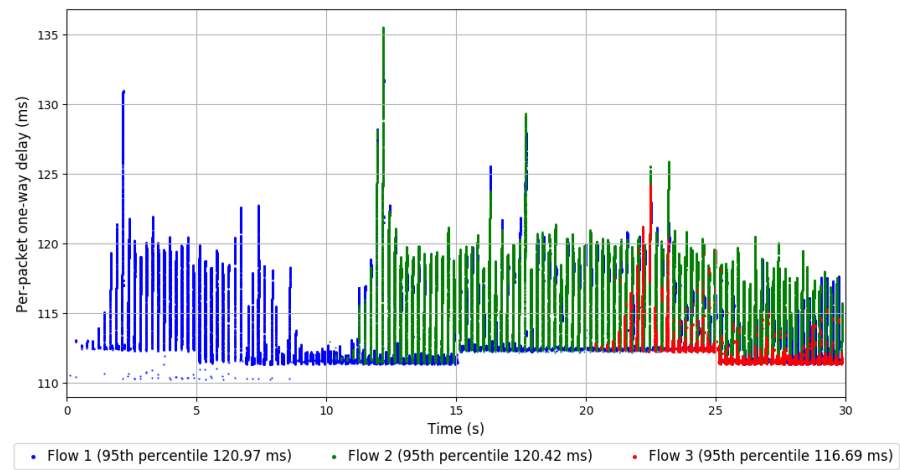
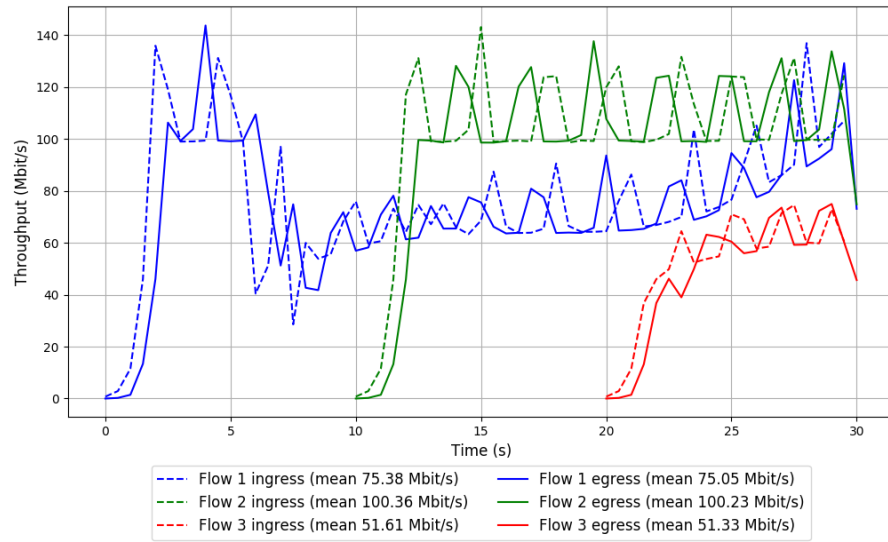


Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 03:29:58
End at: 2018-06-19 03:30:28
Local clock offset: -0.175 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-19 04:07:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 158.28 Mbit/s
95th percentile per-packet one-way delay: 120.513 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 75.05 Mbit/s
95th percentile per-packet one-way delay: 120.965 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 100.23 Mbit/s
95th percentile per-packet one-way delay: 120.424 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 51.33 Mbit/s
95th percentile per-packet one-way delay: 116.687 ms
Loss rate: 2.79%

Run 10: Report of TCP Cubic — Data Link

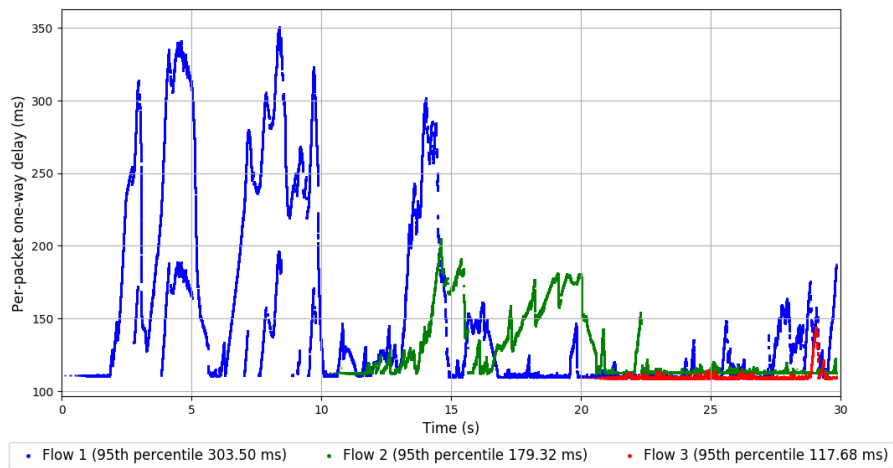
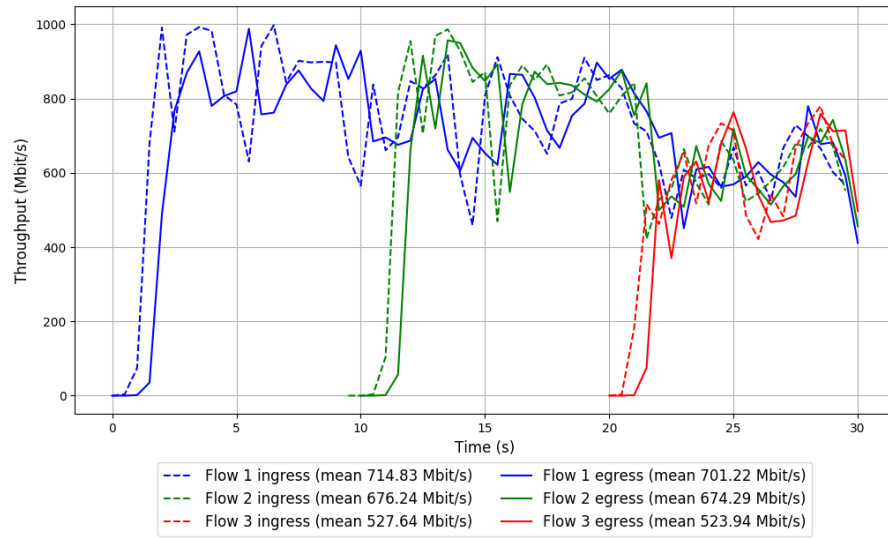


Run 1: Statistics of FillP

Start at: 2018-06-18 23:58:21
End at: 2018-06-18 23:58:51
Local clock offset: 0.049 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-19 04:29:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 1319.43 Mbit/s
95th percentile per-packet one-way delay: 277.551 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 701.22 Mbit/s
95th percentile per-packet one-way delay: 303.496 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 674.29 Mbit/s
95th percentile per-packet one-way delay: 179.317 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 523.94 Mbit/s
95th percentile per-packet one-way delay: 117.680 ms
Loss rate: 2.92%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-19 00:22:50

End at: 2018-06-19 00:23:20

Local clock offset: 0.332 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-06-19 04:30:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 1316.31 Mbit/s

95th percentile per-packet one-way delay: 172.604 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 760.71 Mbit/s

95th percentile per-packet one-way delay: 171.493 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 599.65 Mbit/s

95th percentile per-packet one-way delay: 182.364 ms

Loss rate: 2.52%

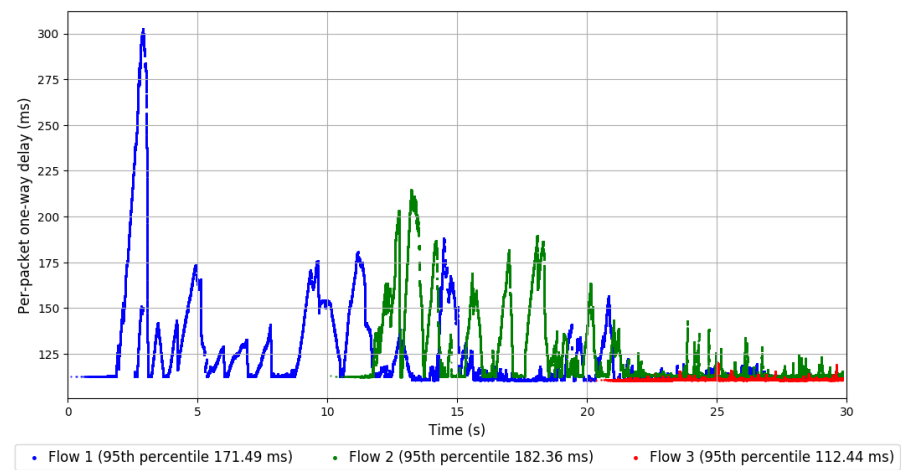
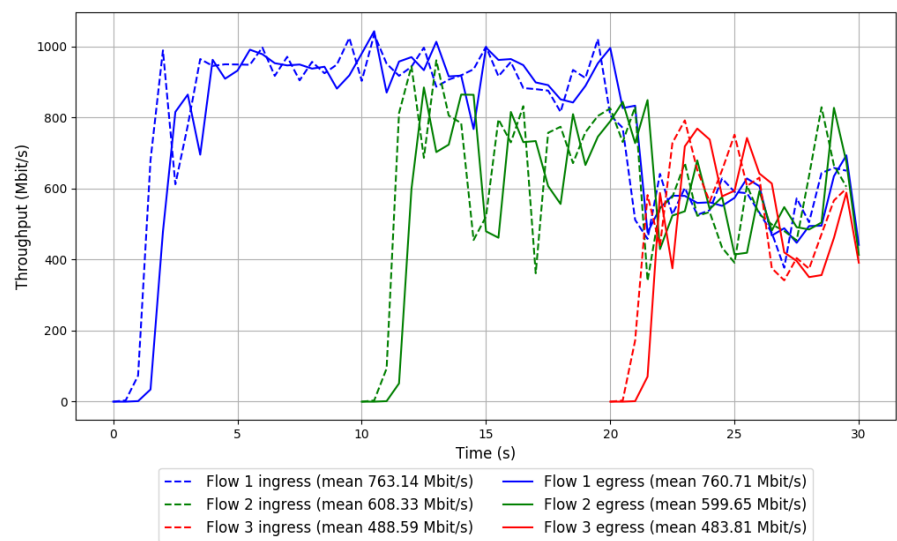
-- Flow 3:

Average throughput: 483.81 Mbit/s

95th percentile per-packet one-way delay: 112.442 ms

Loss rate: 3.20%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-19 00:47:00

End at: 2018-06-19 00:47:30

Local clock offset: 0.388 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2018-06-19 04:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 1361.32 Mbit/s

95th percentile per-packet one-way delay: 181.164 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 712.95 Mbit/s

95th percentile per-packet one-way delay: 183.008 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 707.79 Mbit/s

95th percentile per-packet one-way delay: 182.850 ms

Loss rate: 2.62%

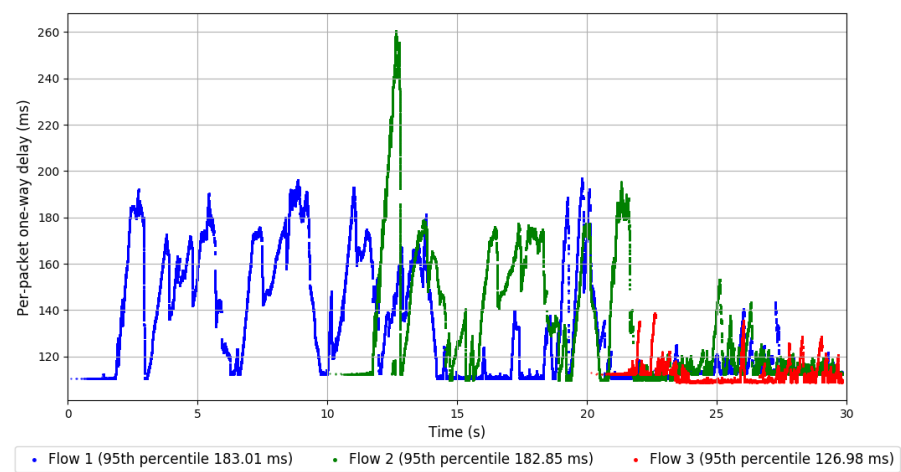
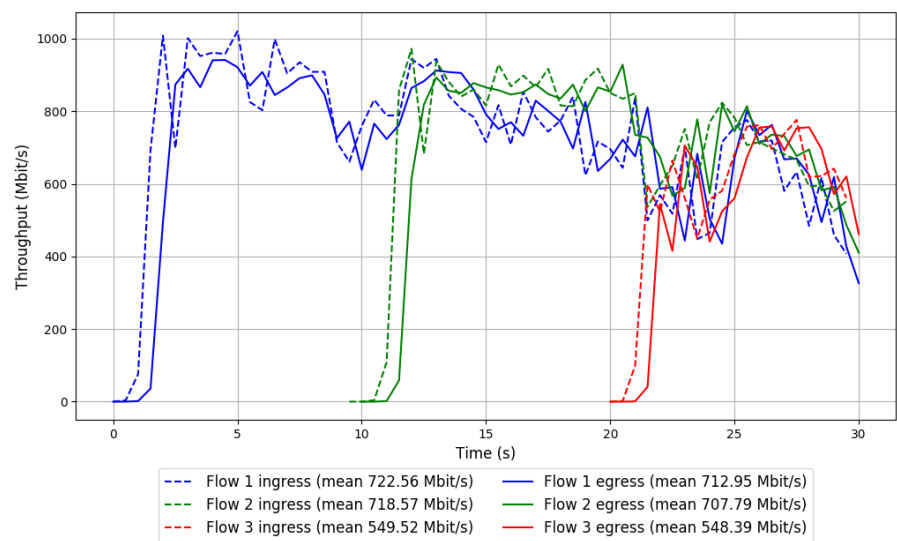
-- Flow 3:

Average throughput: 548.39 Mbit/s

95th percentile per-packet one-way delay: 126.983 ms

Loss rate: 2.49%

Run 3: Report of FillP — Data Link

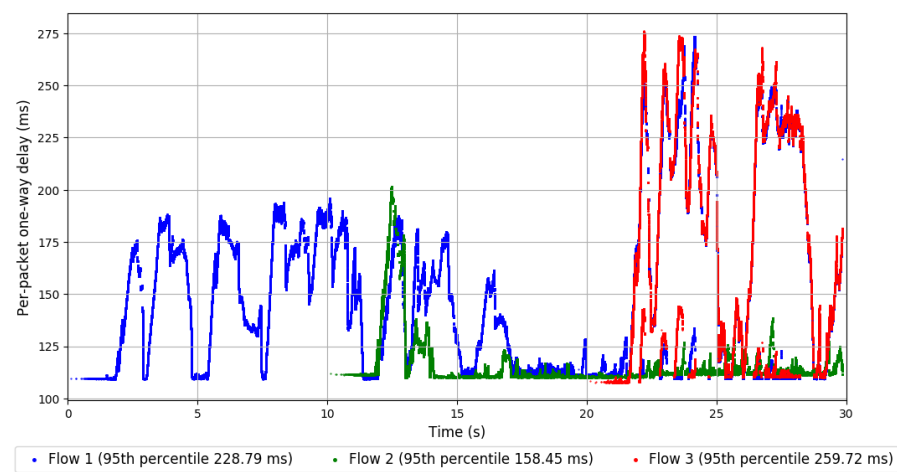
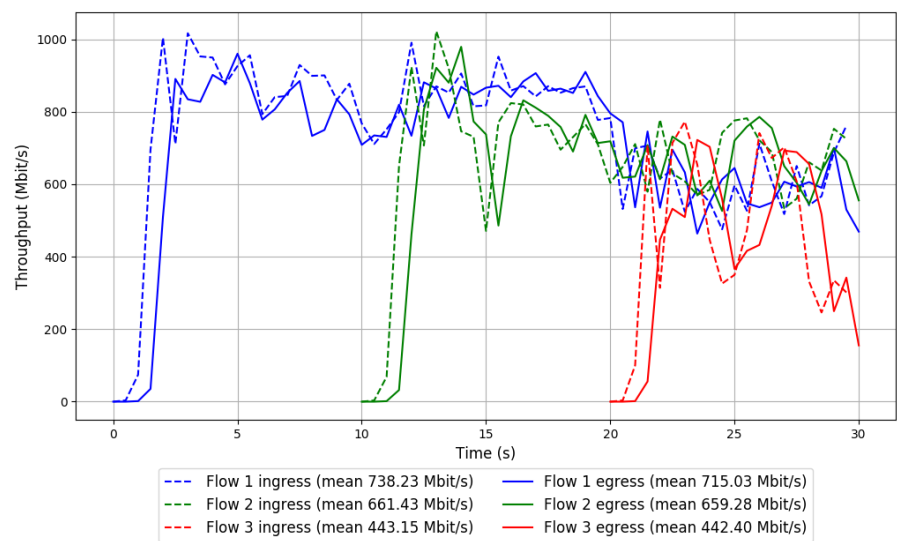


Run 4: Statistics of FillP

Start at: 2018-06-19 01:11:11
End at: 2018-06-19 01:11:41
Local clock offset: -0.805 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-19 04:31:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 1296.40 Mbit/s
95th percentile per-packet one-way delay: 232.088 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 715.03 Mbit/s
95th percentile per-packet one-way delay: 228.795 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 659.28 Mbit/s
95th percentile per-packet one-way delay: 158.447 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 442.40 Mbit/s
95th percentile per-packet one-way delay: 259.717 ms
Loss rate: 2.40%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-19 01:35:34

End at: 2018-06-19 01:36:04

Local clock offset: 0.384 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-19 04:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 1273.04 Mbit/s

95th percentile per-packet one-way delay: 206.161 ms

Loss rate: 3.24%

-- Flow 1:

Average throughput: 670.51 Mbit/s

95th percentile per-packet one-way delay: 260.135 ms

Loss rate: 4.52%

-- Flow 2:

Average throughput: 649.38 Mbit/s

95th percentile per-packet one-way delay: 150.906 ms

Loss rate: 1.32%

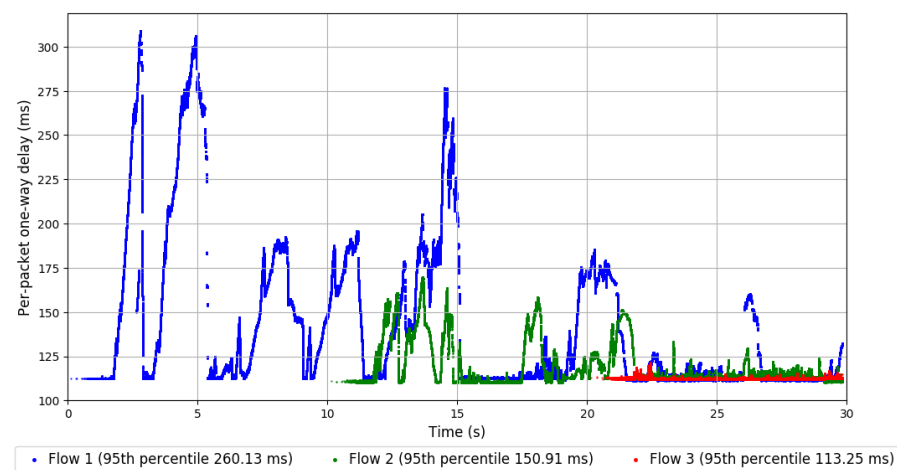
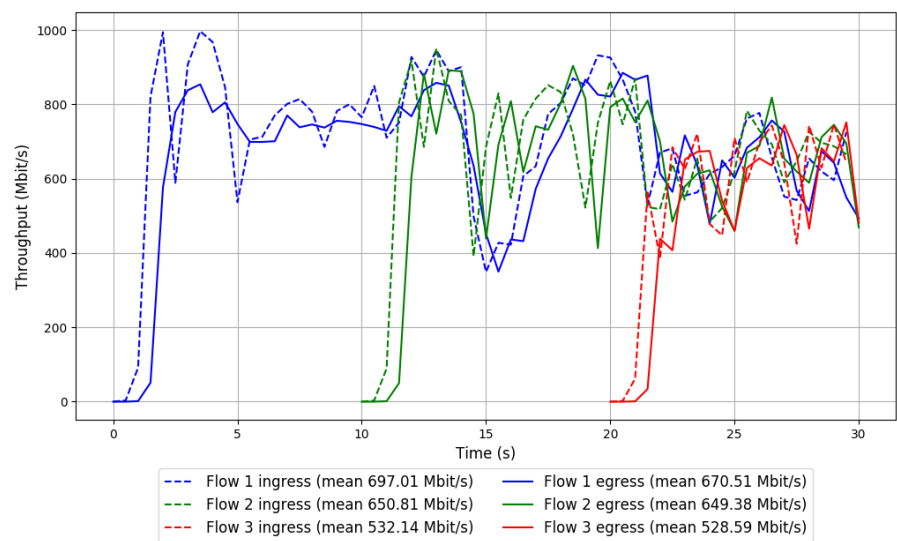
-- Flow 3:

Average throughput: 528.59 Mbit/s

95th percentile per-packet one-way delay: 113.255 ms

Loss rate: 2.90%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-19 01:59:29

End at: 2018-06-19 01:59:59

Local clock offset: 0.318 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-19 04:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1320.46 Mbit/s

95th percentile per-packet one-way delay: 249.625 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 728.23 Mbit/s

95th percentile per-packet one-way delay: 256.398 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 645.35 Mbit/s

95th percentile per-packet one-way delay: 184.367 ms

Loss rate: 2.95%

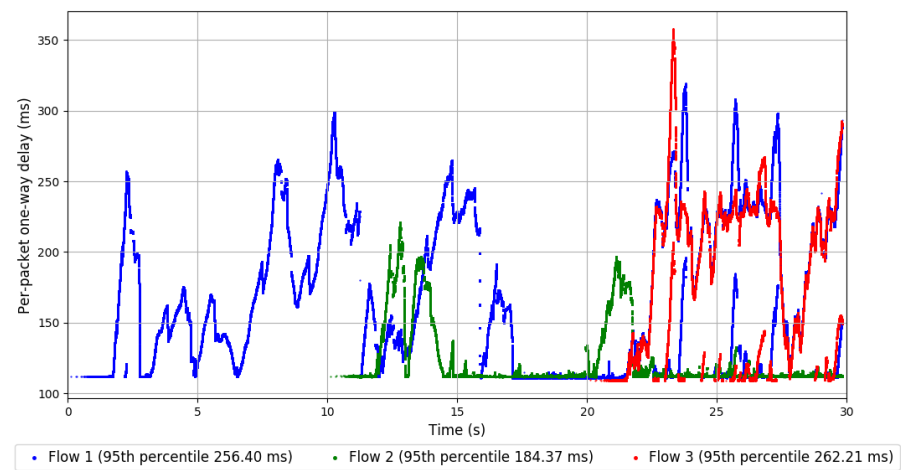
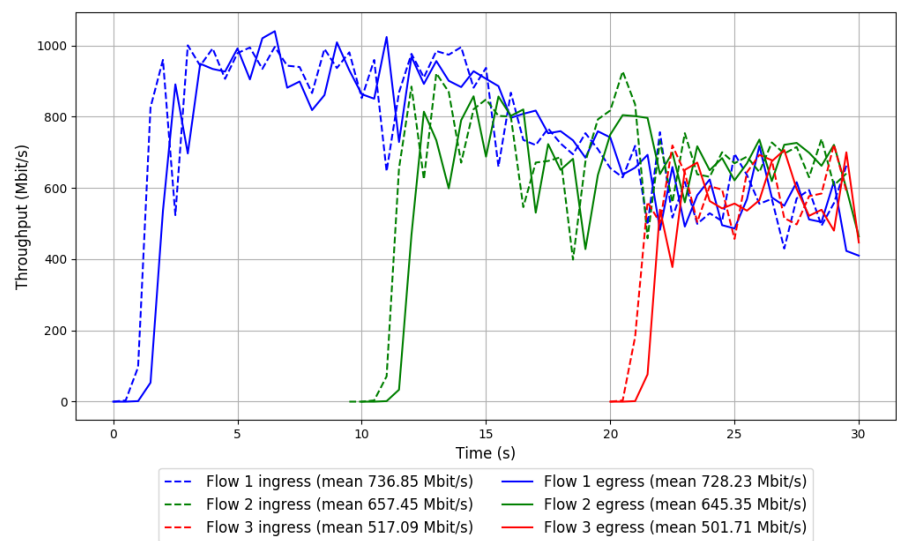
-- Flow 3:

Average throughput: 501.71 Mbit/s

95th percentile per-packet one-way delay: 262.207 ms

Loss rate: 5.13%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-19 02:23:40

End at: 2018-06-19 02:24:10

Local clock offset: -0.104 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-19 04:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1238.15 Mbit/s

95th percentile per-packet one-way delay: 253.926 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 658.19 Mbit/s

95th percentile per-packet one-way delay: 261.016 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 568.44 Mbit/s

95th percentile per-packet one-way delay: 254.540 ms

Loss rate: 0.89%

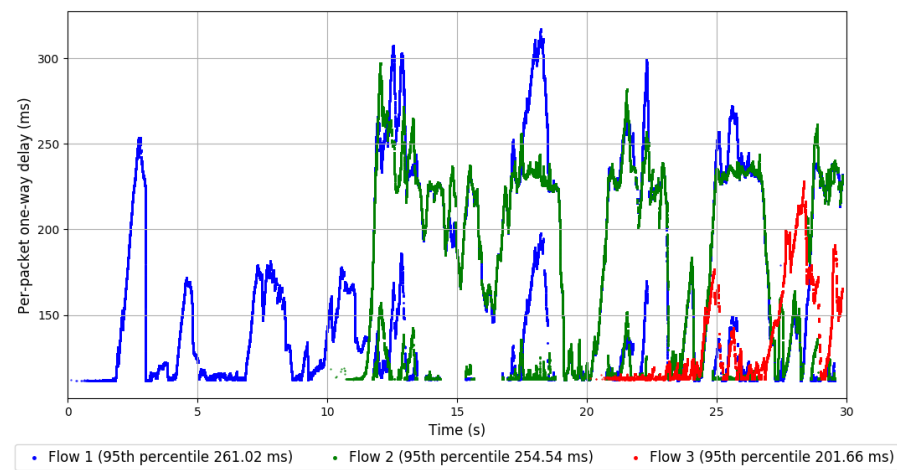
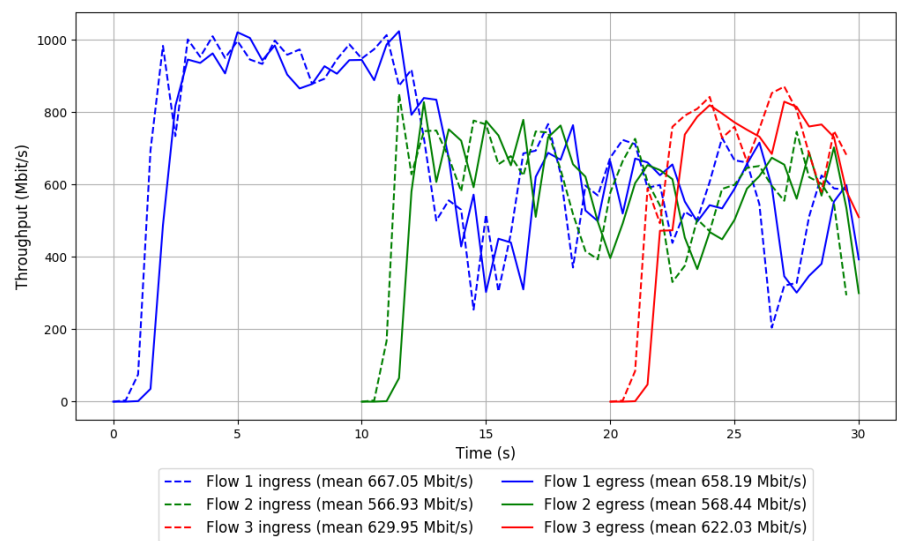
-- Flow 3:

Average throughput: 622.03 Mbit/s

95th percentile per-packet one-way delay: 201.655 ms

Loss rate: 3.47%

Run 7: Report of FillP — Data Link

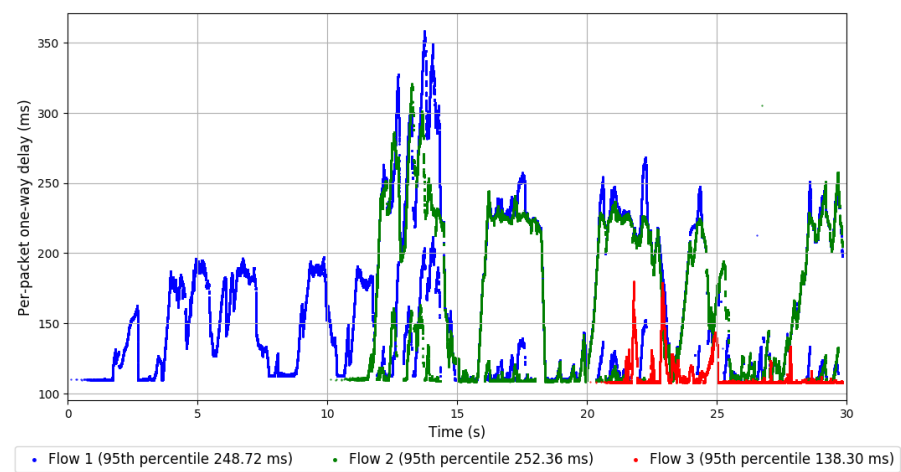
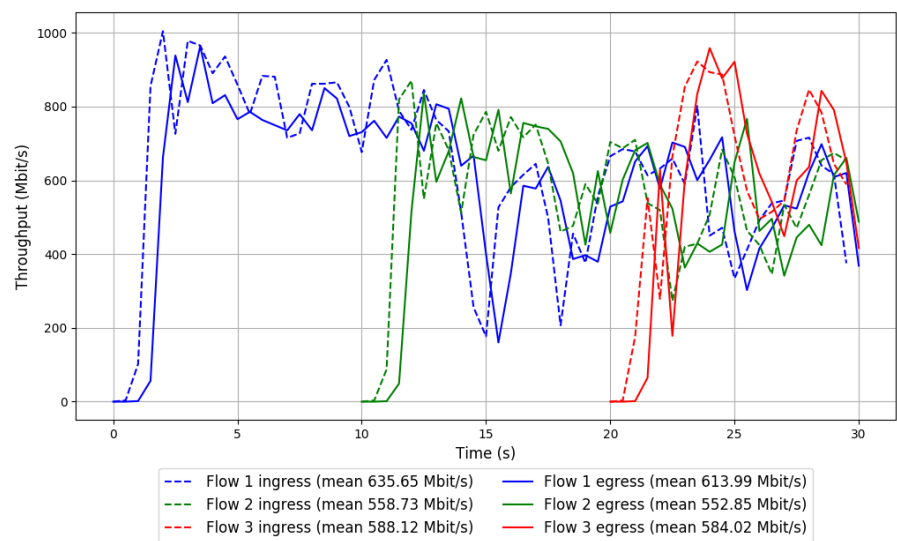


Run 8: Statistics of FillP

Start at: 2018-06-19 02:47:29
End at: 2018-06-19 02:47:59
Local clock offset: -1.419 ms
Remote clock offset: -0.291 ms

Below is generated by plot.py at 2018-06-19 04:31:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 1171.25 Mbit/s
95th percentile per-packet one-way delay: 244.739 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 613.99 Mbit/s
95th percentile per-packet one-way delay: 248.724 ms
Loss rate: 4.11%
-- Flow 2:
Average throughput: 552.85 Mbit/s
95th percentile per-packet one-way delay: 252.360 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 584.02 Mbit/s
95th percentile per-packet one-way delay: 138.304 ms
Loss rate: 2.94%

Run 8: Report of FillP — Data Link

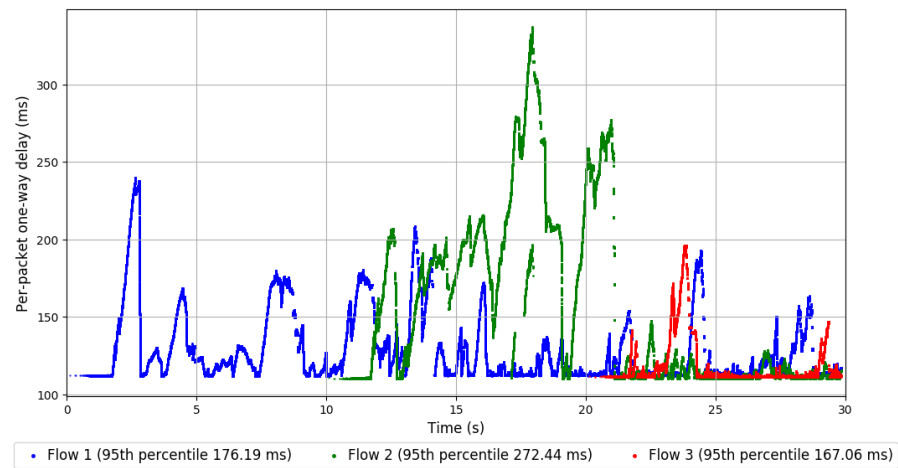
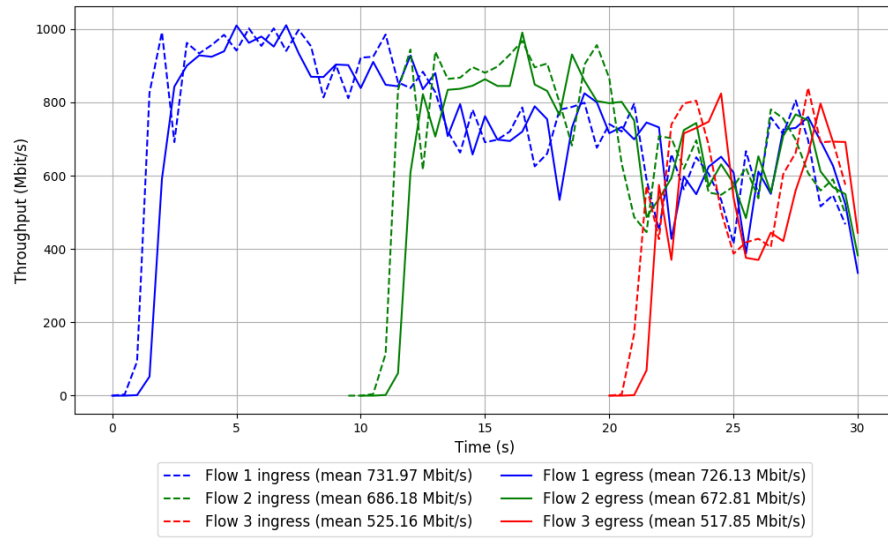


Run 9: Statistics of FillP

Start at: 2018-06-19 03:11:15
End at: 2018-06-19 03:11:45
Local clock offset: -0.317 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1341.46 Mbit/s
95th percentile per-packet one-way delay: 232.190 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 726.13 Mbit/s
95th percentile per-packet one-way delay: 176.194 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 672.81 Mbit/s
95th percentile per-packet one-way delay: 272.435 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 517.85 Mbit/s
95th percentile per-packet one-way delay: 167.063 ms
Loss rate: 3.58%

Run 9: Report of FillP — Data Link

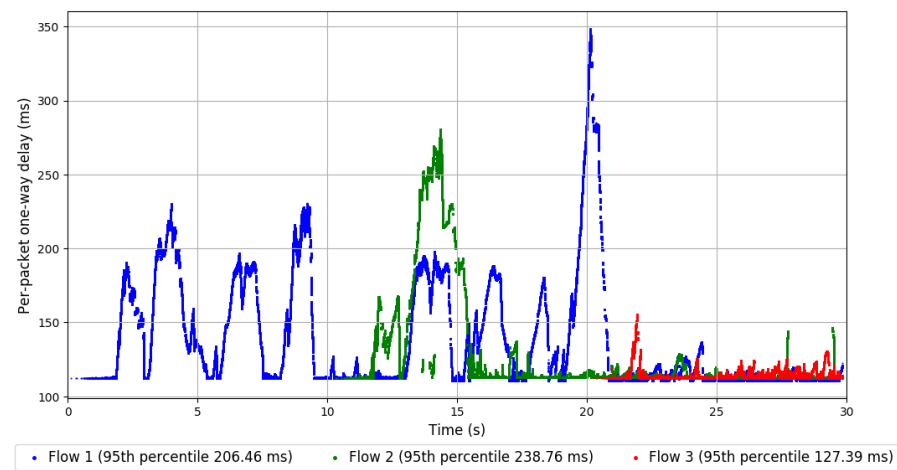
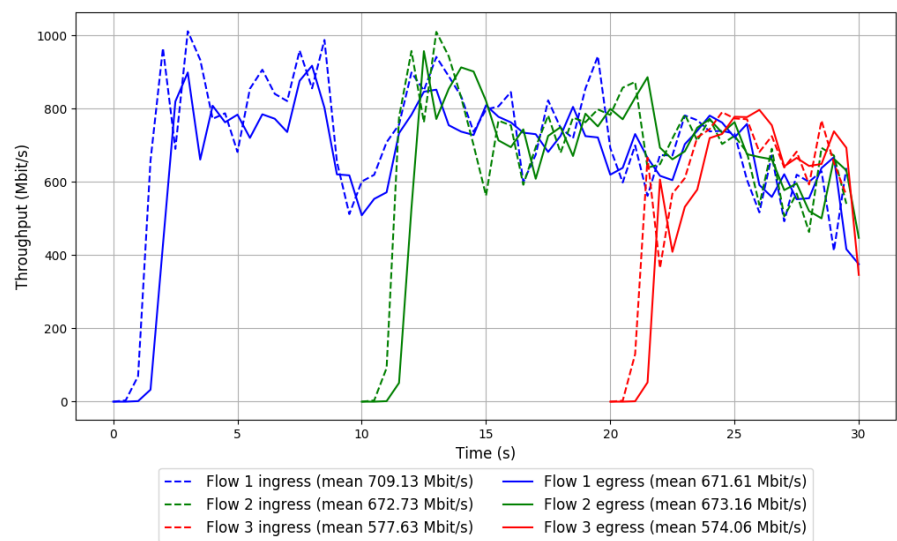


Run 10: Statistics of FillP

Start at: 2018-06-19 03:35:29
End at: 2018-06-19 03:35:59
Local clock offset: -0.107 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1305.14 Mbit/s
95th percentile per-packet one-way delay: 213.171 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 671.61 Mbit/s
95th percentile per-packet one-way delay: 206.461 ms
Loss rate: 6.00%
-- Flow 2:
Average throughput: 673.16 Mbit/s
95th percentile per-packet one-way delay: 238.760 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 574.06 Mbit/s
95th percentile per-packet one-way delay: 127.388 ms
Loss rate: 2.89%

Run 10: Report of FillP — Data Link

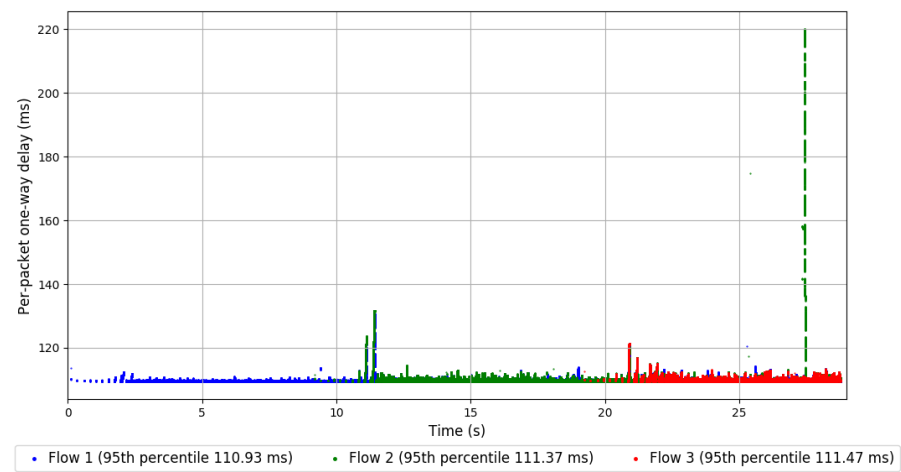
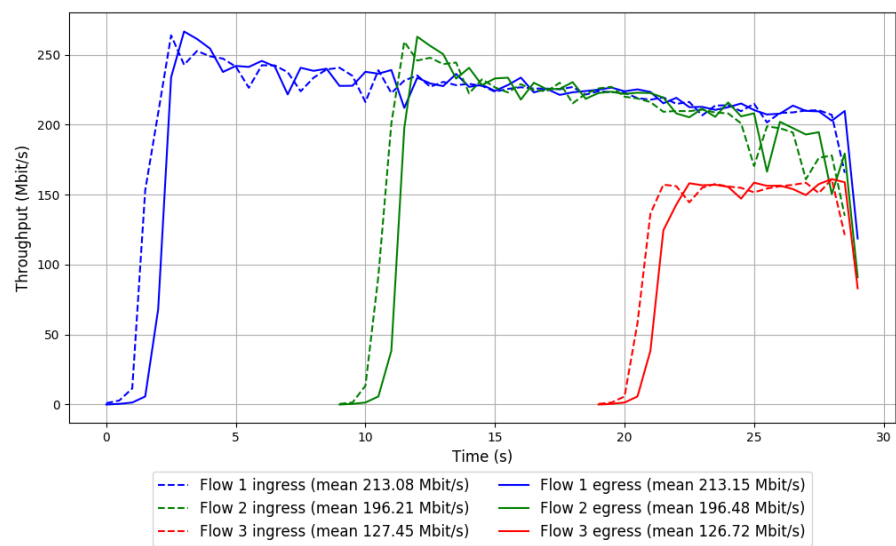


Run 1: Statistics of Indigo

Start at: 2018-06-18 23:46:23
End at: 2018-06-18 23:46:53
Local clock offset: -1.305 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.70 Mbit/s
95th percentile per-packet one-way delay: 111.160 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 213.15 Mbit/s
95th percentile per-packet one-way delay: 110.932 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 196.48 Mbit/s
95th percentile per-packet one-way delay: 111.371 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 126.72 Mbit/s
95th percentile per-packet one-way delay: 111.471 ms
Loss rate: 2.82%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-19 00:10:46

End at: 2018-06-19 00:11:16

Local clock offset: -1.294 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 380.49 Mbit/s

95th percentile per-packet one-way delay: 115.729 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 207.20 Mbit/s

95th percentile per-packet one-way delay: 112.616 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 200.22 Mbit/s

95th percentile per-packet one-way delay: 117.834 ms

Loss rate: 1.07%

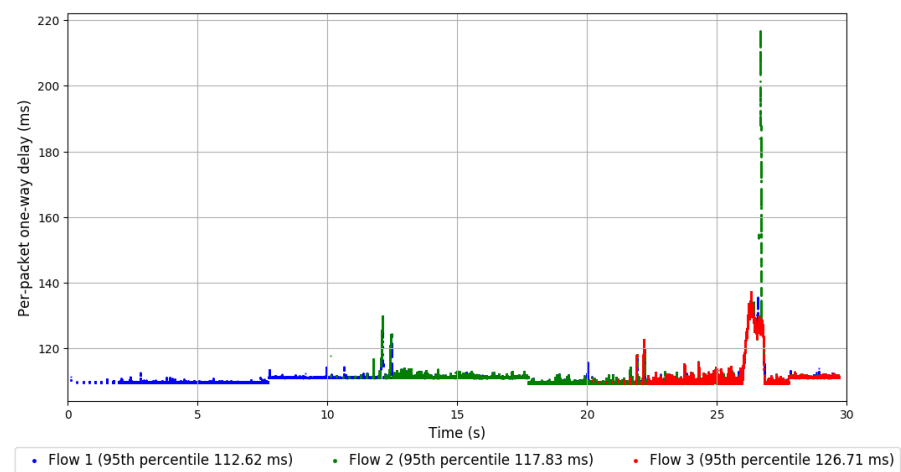
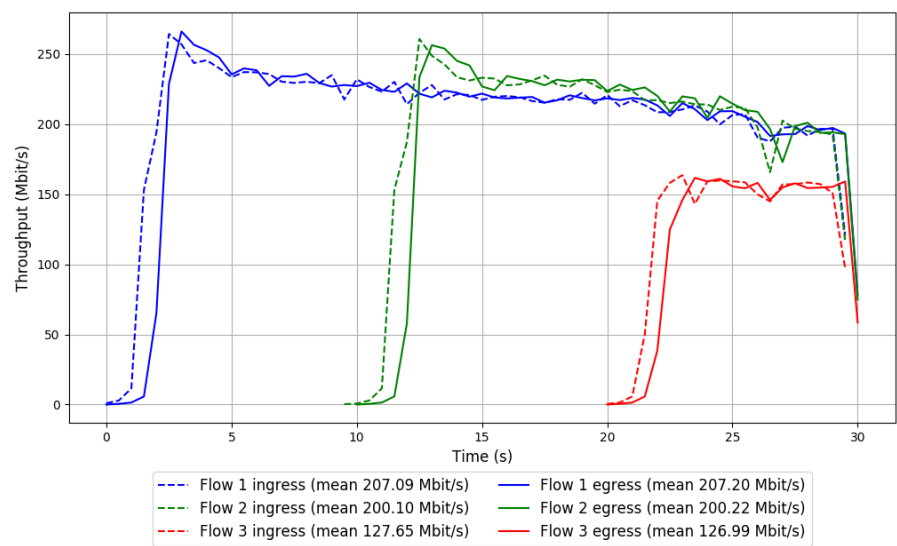
-- Flow 3:

Average throughput: 126.99 Mbit/s

95th percentile per-packet one-way delay: 126.712 ms

Loss rate: 2.83%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-19 00:35:02

End at: 2018-06-19 00:35:32

Local clock offset: 0.311 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.31 Mbit/s

95th percentile per-packet one-way delay: 112.749 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 145.08 Mbit/s

95th percentile per-packet one-way delay: 112.492 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 205.82 Mbit/s

95th percentile per-packet one-way delay: 112.999 ms

Loss rate: 1.15%

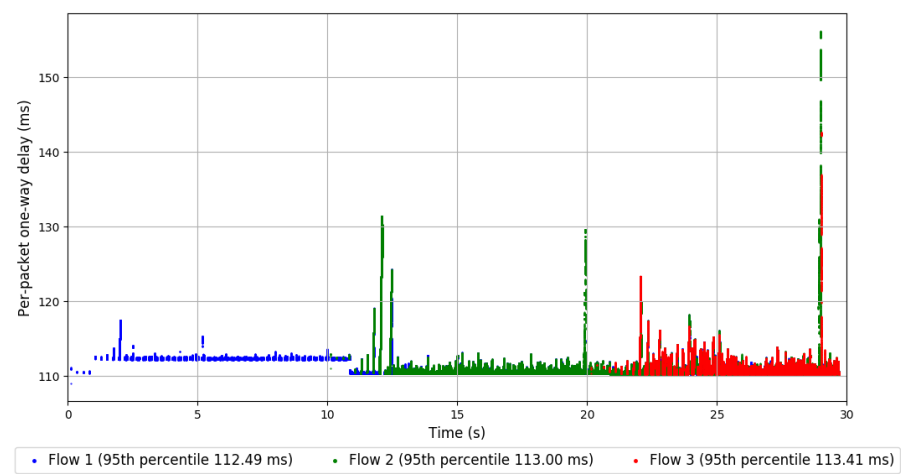
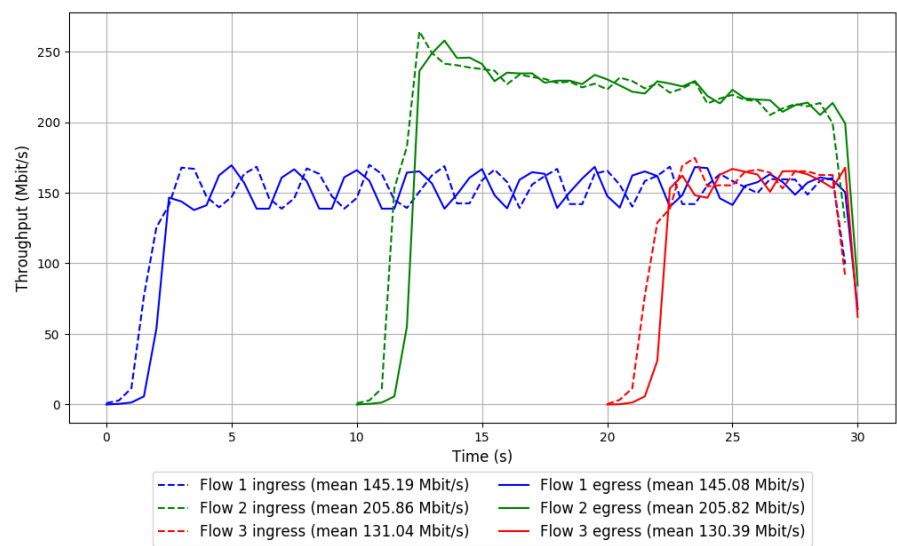
-- Flow 3:

Average throughput: 130.39 Mbit/s

95th percentile per-packet one-way delay: 113.406 ms

Loss rate: 2.80%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-19 00:59:09

End at: 2018-06-19 00:59:39

Local clock offset: 0.256 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.52 Mbit/s

95th percentile per-packet one-way delay: 117.518 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 212.72 Mbit/s

95th percentile per-packet one-way delay: 115.673 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 140.81 Mbit/s

95th percentile per-packet one-way delay: 118.077 ms

Loss rate: 1.23%

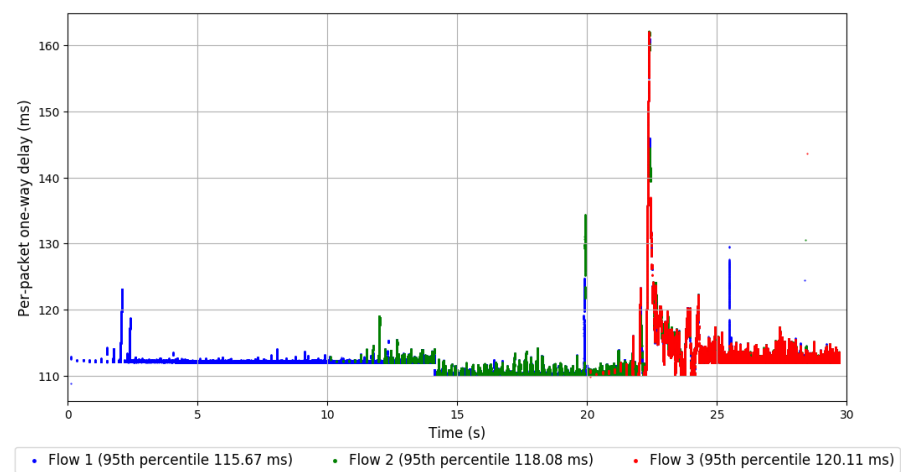
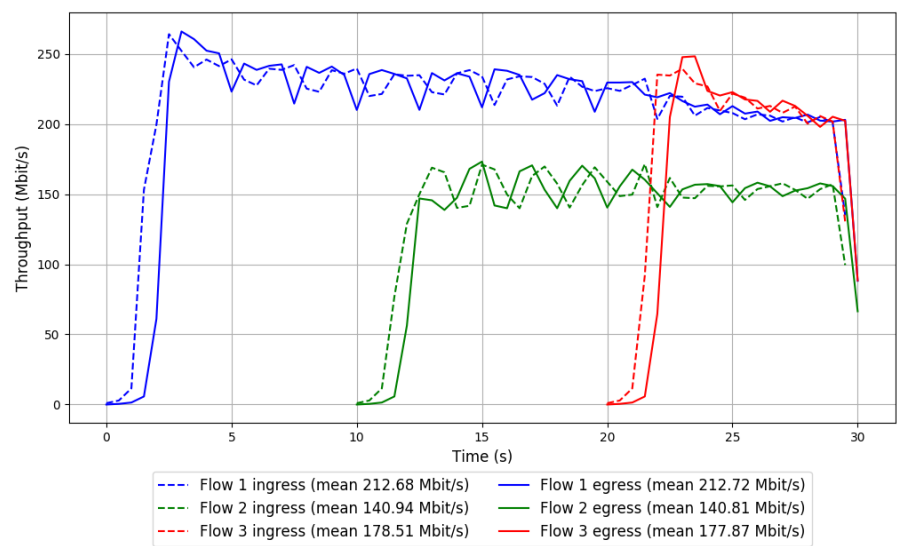
-- Flow 3:

Average throughput: 177.87 Mbit/s

95th percentile per-packet one-way delay: 120.106 ms

Loss rate: 2.64%

Run 4: Report of Indigo — Data Link

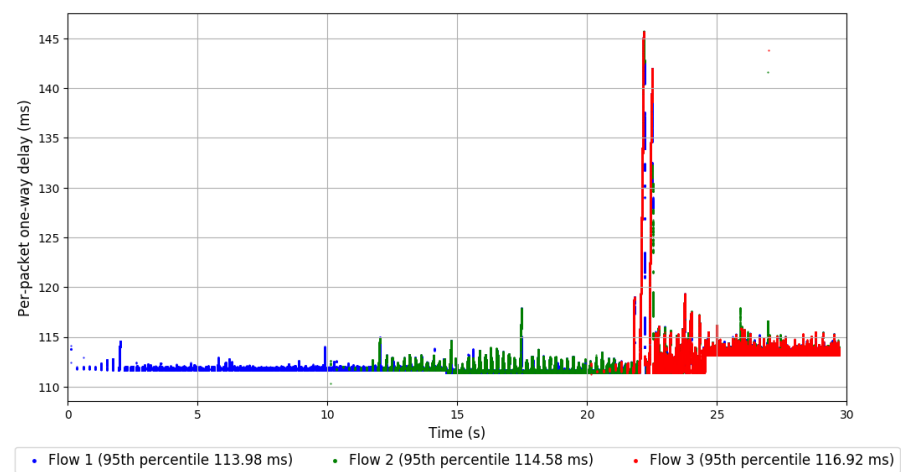
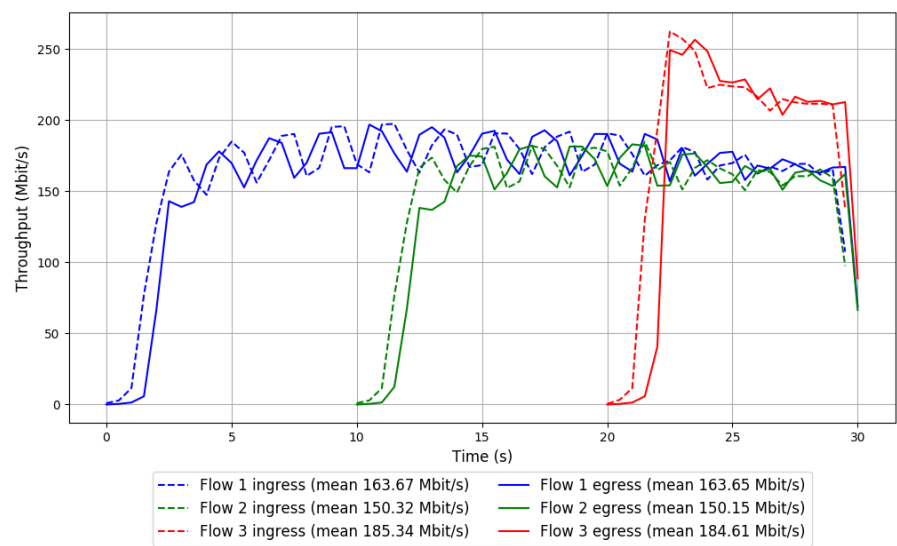


Run 5: Statistics of Indigo

Start at: 2018-06-19 01:23:39
End at: 2018-06-19 01:24:09
Local clock offset: 1.614 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 322.63 Mbit/s
95th percentile per-packet one-way delay: 114.528 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 163.65 Mbit/s
95th percentile per-packet one-way delay: 113.981 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 150.15 Mbit/s
95th percentile per-packet one-way delay: 114.581 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 184.61 Mbit/s
95th percentile per-packet one-way delay: 116.915 ms
Loss rate: 2.65%

Run 5: Report of Indigo — Data Link

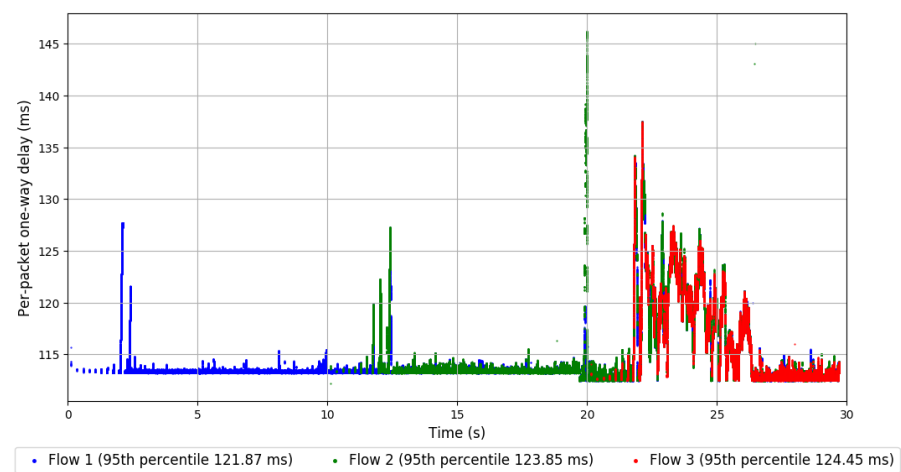
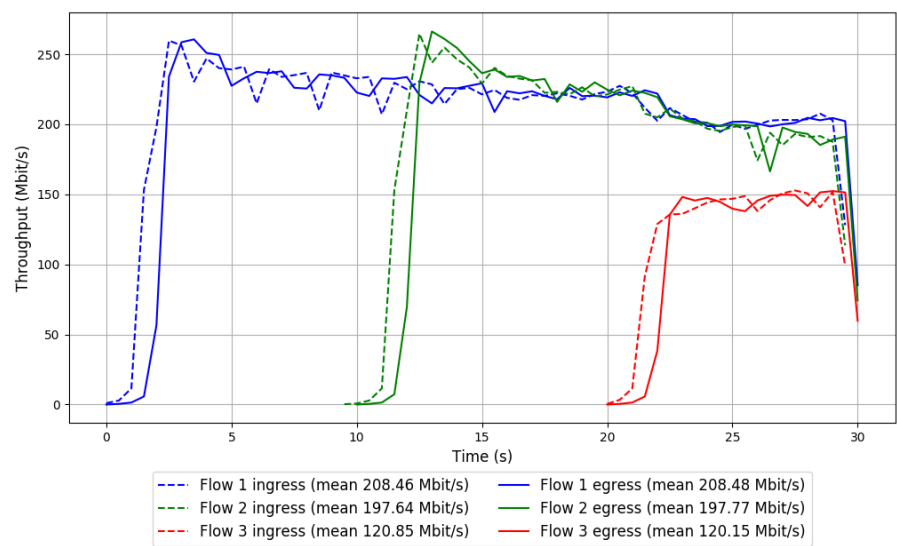


Run 6: Statistics of Indigo

Start at: 2018-06-19 01:47:44
End at: 2018-06-19 01:48:14
Local clock offset: 1.737 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 378.23 Mbit/s
95th percentile per-packet one-way delay: 123.131 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 208.48 Mbit/s
95th percentile per-packet one-way delay: 121.866 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 197.77 Mbit/s
95th percentile per-packet one-way delay: 123.846 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 120.15 Mbit/s
95th percentile per-packet one-way delay: 124.451 ms
Loss rate: 2.86%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-19 02:11:33

End at: 2018-06-19 02:12:03

Local clock offset: -1.292 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.70 Mbit/s

95th percentile per-packet one-way delay: 112.464 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 146.84 Mbit/s

95th percentile per-packet one-way delay: 112.165 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 198.54 Mbit/s

95th percentile per-packet one-way delay: 112.480 ms

Loss rate: 0.98%

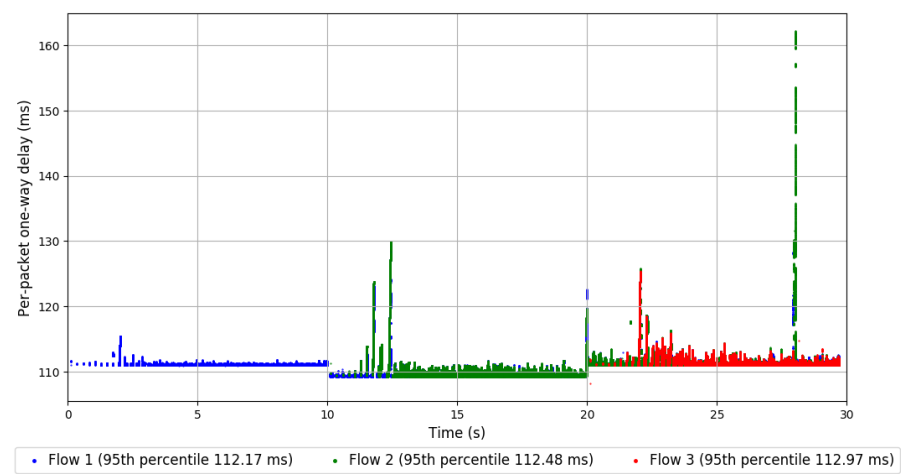
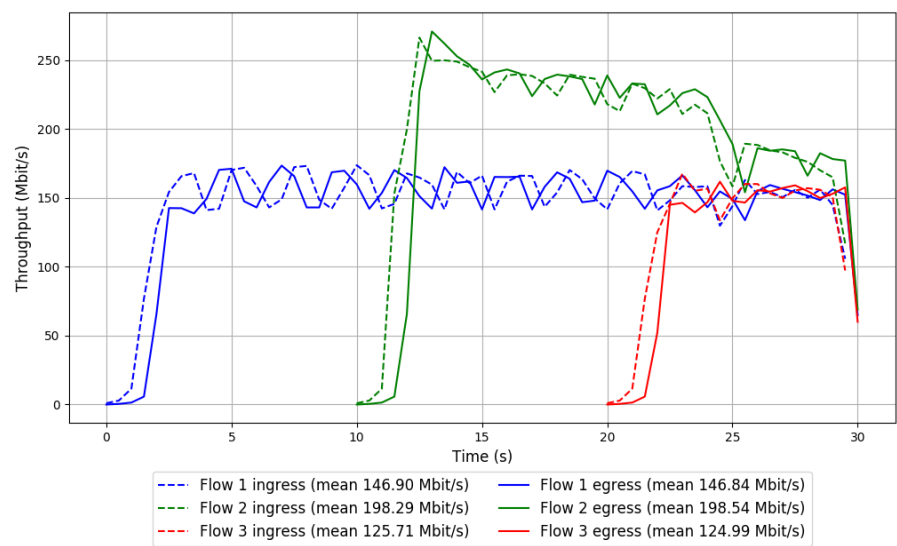
-- Flow 3:

Average throughput: 124.99 Mbit/s

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

Loss rate: 2.82%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-19 02:35:34

End at: 2018-06-19 02:36:04

Local clock offset: -0.072 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.56 Mbit/s

95th percentile per-packet one-way delay: 118.205 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 213.92 Mbit/s

95th percentile per-packet one-way delay: 117.142 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 145.83 Mbit/s

95th percentile per-packet one-way delay: 118.634 ms

Loss rate: 1.22%

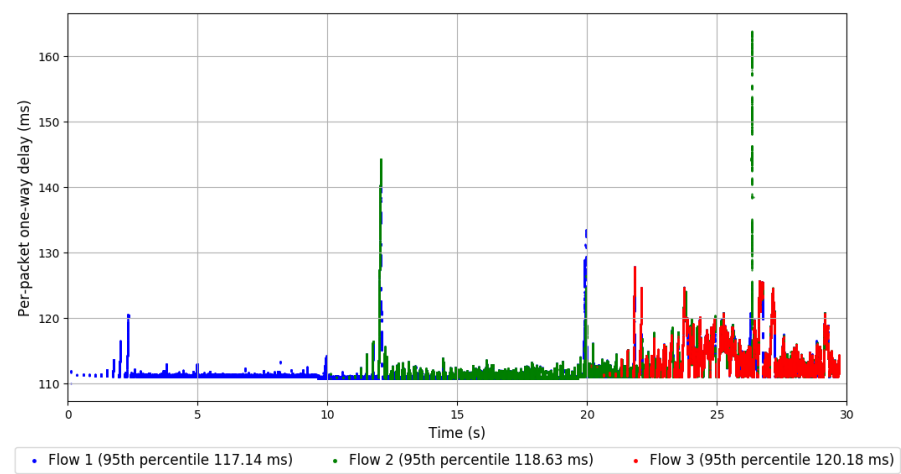
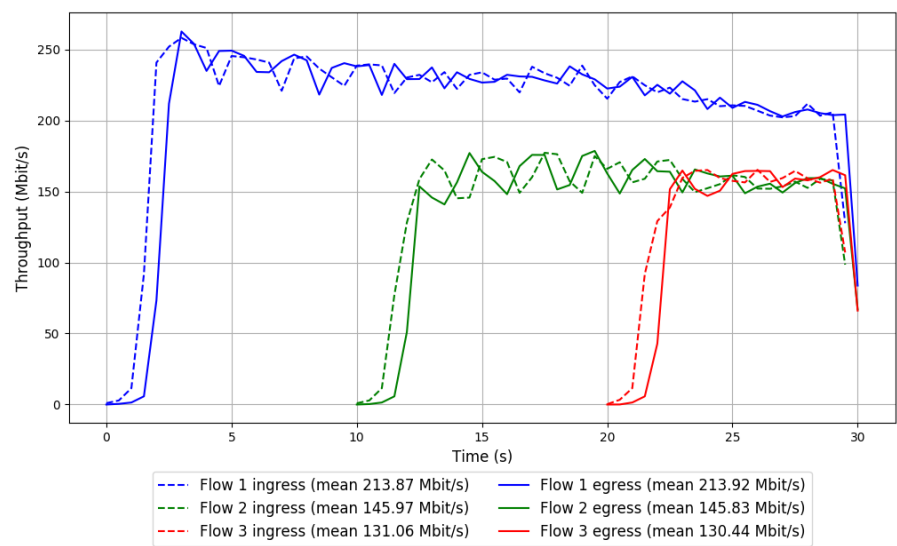
-- Flow 3:

Average throughput: 130.44 Mbit/s

95th percentile per-packet one-way delay: 120.182 ms

Loss rate: 2.76%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-19 02:59:23

End at: 2018-06-19 02:59:53

Local clock offset: -0.384 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.15 Mbit/s

95th percentile per-packet one-way delay: 149.559 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 202.97 Mbit/s

95th percentile per-packet one-way delay: 126.707 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 185.35 Mbit/s

95th percentile per-packet one-way delay: 148.113 ms

Loss rate: 0.98%

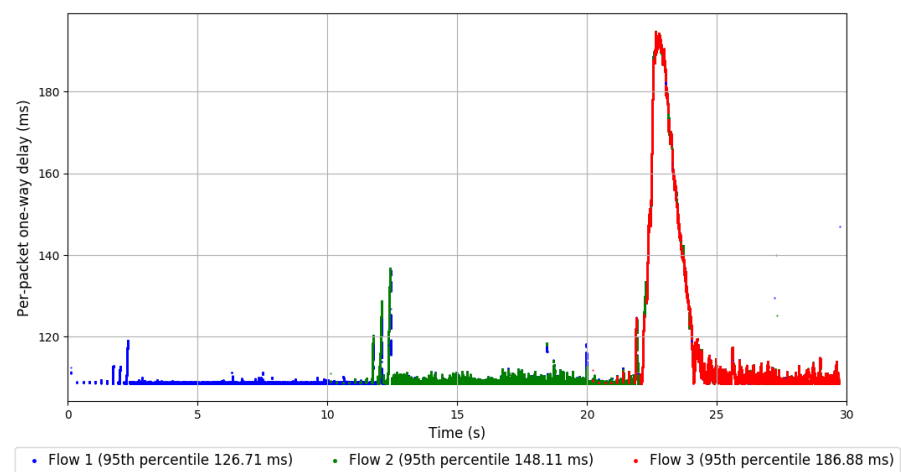
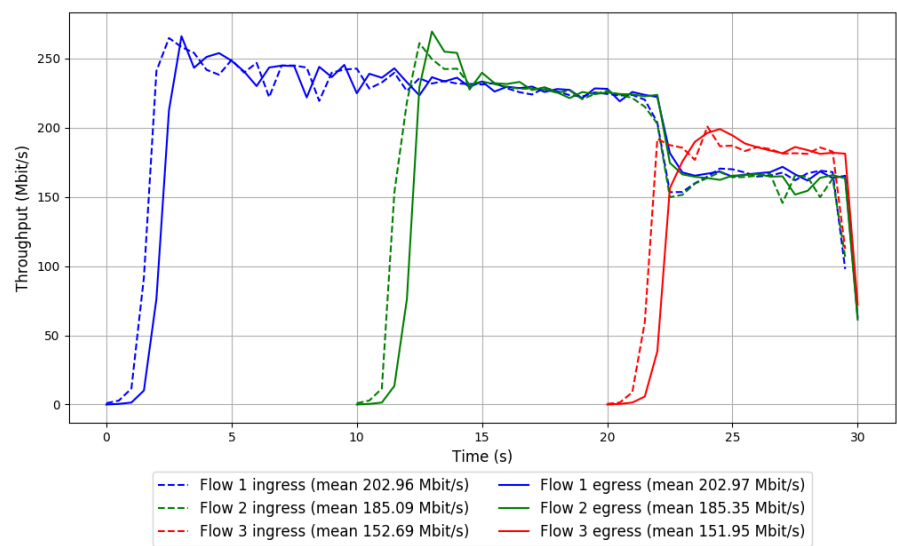
-- Flow 3:

Average throughput: 151.95 Mbit/s

95th percentile per-packet one-way delay: 186.878 ms

Loss rate: 2.76%

Run 9: Report of Indigo — Data Link

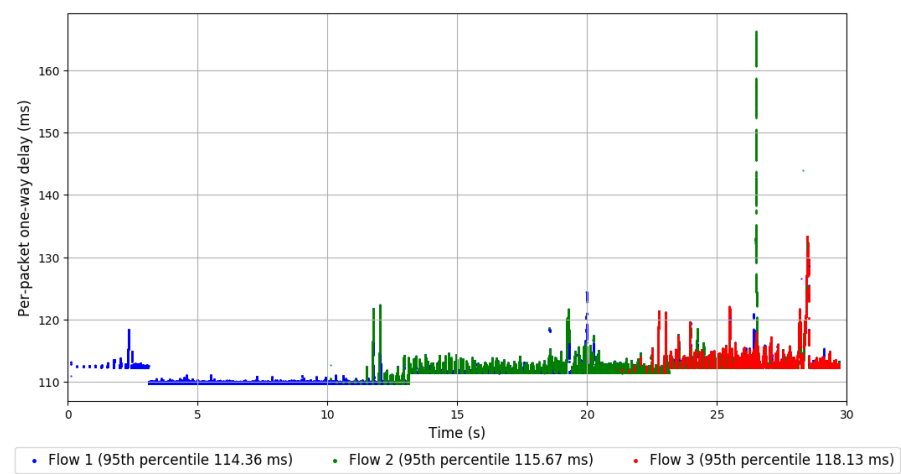
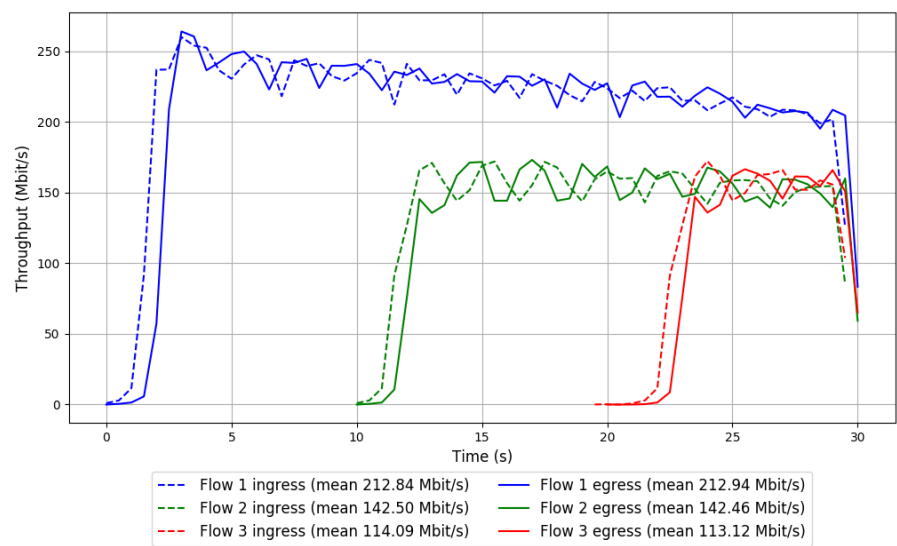


Run 10: Statistics of Indigo

Start at: 2018-06-19 03:23:30
End at: 2018-06-19 03:24:00
Local clock offset: -0.054 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.84 Mbit/s
95th percentile per-packet one-way delay: 115.035 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 212.94 Mbit/s
95th percentile per-packet one-way delay: 114.360 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 142.46 Mbit/s
95th percentile per-packet one-way delay: 115.670 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 113.12 Mbit/s
95th percentile per-packet one-way delay: 118.130 ms
Loss rate: 3.19%

Run 10: Report of Indigo — Data Link

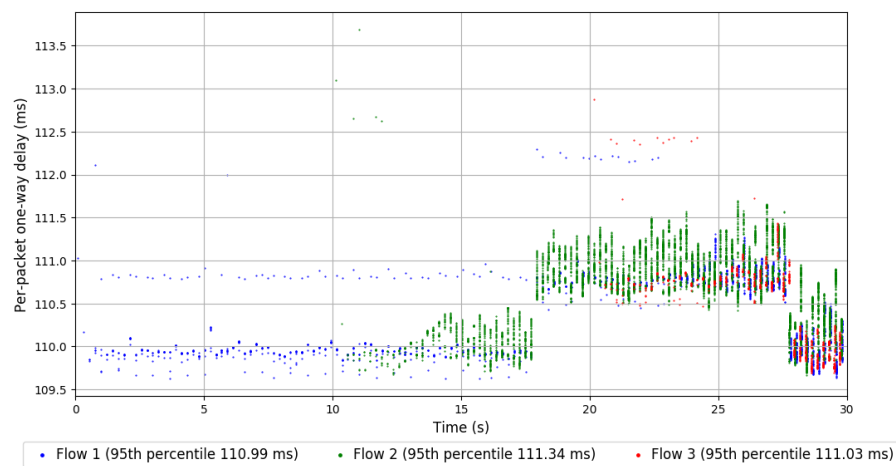
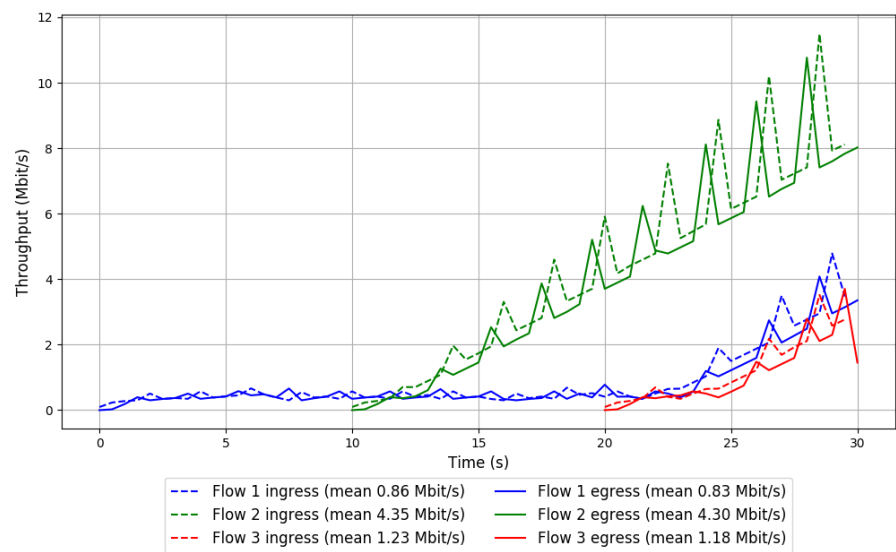


Run 1: Statistics of LEDBAT

Start at: 2018-06-18 23:36:26
End at: 2018-06-18 23:36:56
Local clock offset: 0.038 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 111.304 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 110.992 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 111.337 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 111.028 ms
Loss rate: 5.84%

Run 1: Report of LEDBAT — Data Link

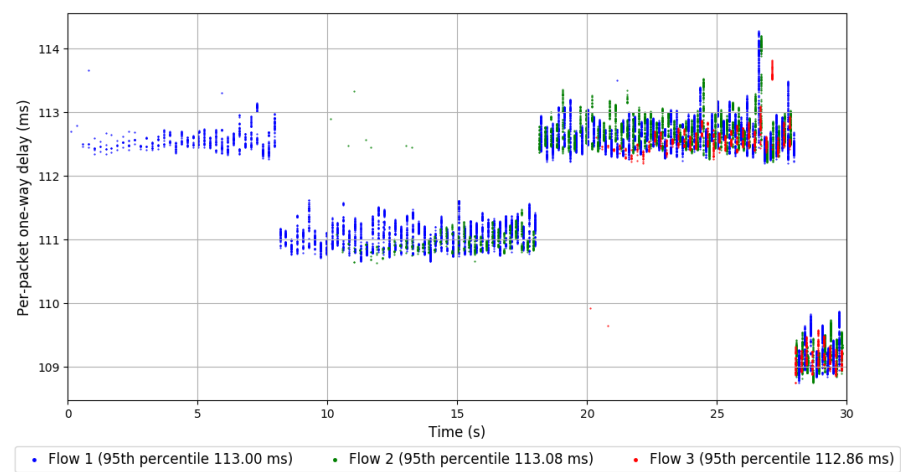
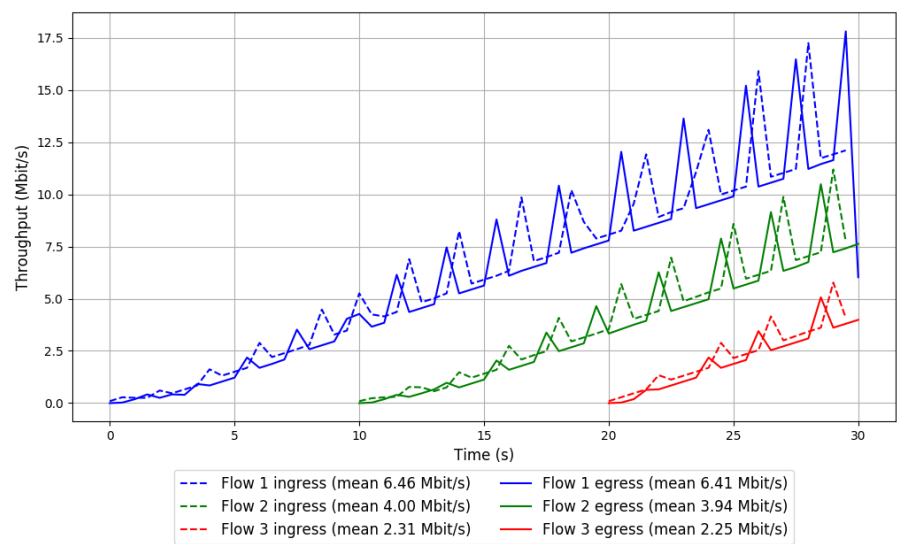


```
Run 2: Statistics of LEDBAT

Start at: 2018-06-19 00:00:35
End at: 2018-06-19 00:01:05
Local clock offset: -0.086 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-19 04:56:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 113.025 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 112.995 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 113.078 ms
Loss rate: 2.45%
-- Flow 3:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 112.864 ms
Loss rate: 4.52%
```

Run 2: Report of LEDBAT — Data Link

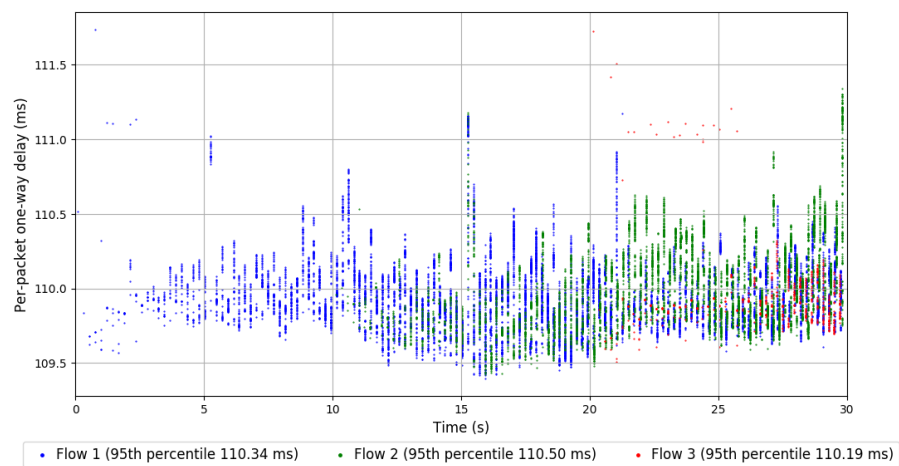
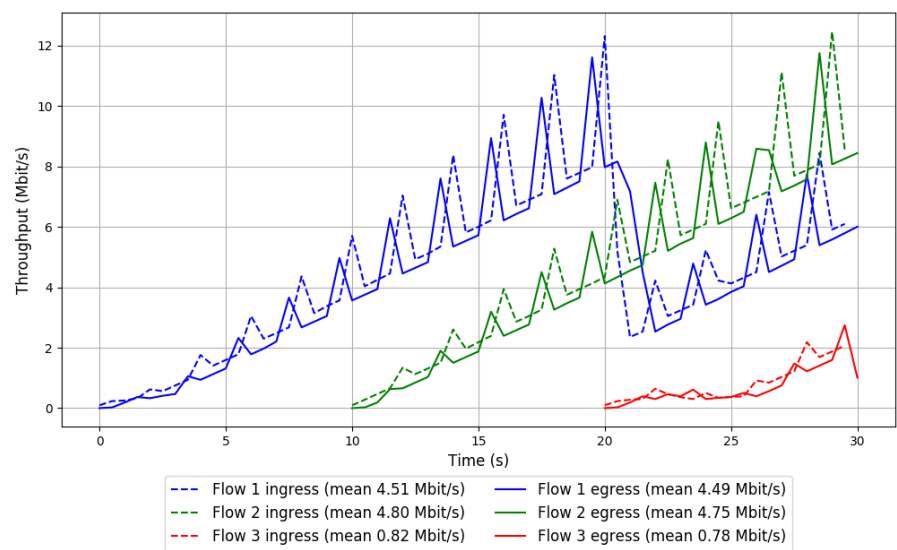


Run 3: Statistics of LEDBAT

Start at: 2018-06-19 00:25:02
End at: 2018-06-19 00:25:32
Local clock offset: -1.004 ms
Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 110.435 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 110.341 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 110.498 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 110.192 ms
Loss rate: 6.55%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-19 00:49:14

End at: 2018-06-19 00:49:44

Local clock offset: 0.715 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 113.624 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 113.709 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 113.584 ms

Loss rate: 2.18%

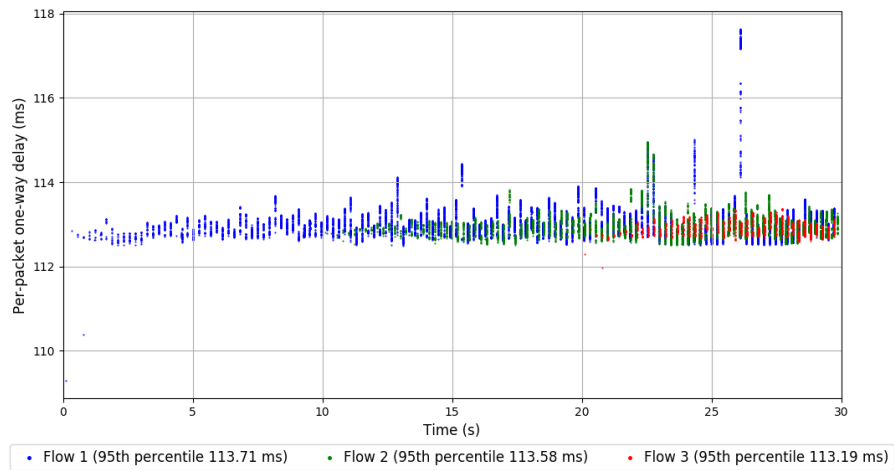
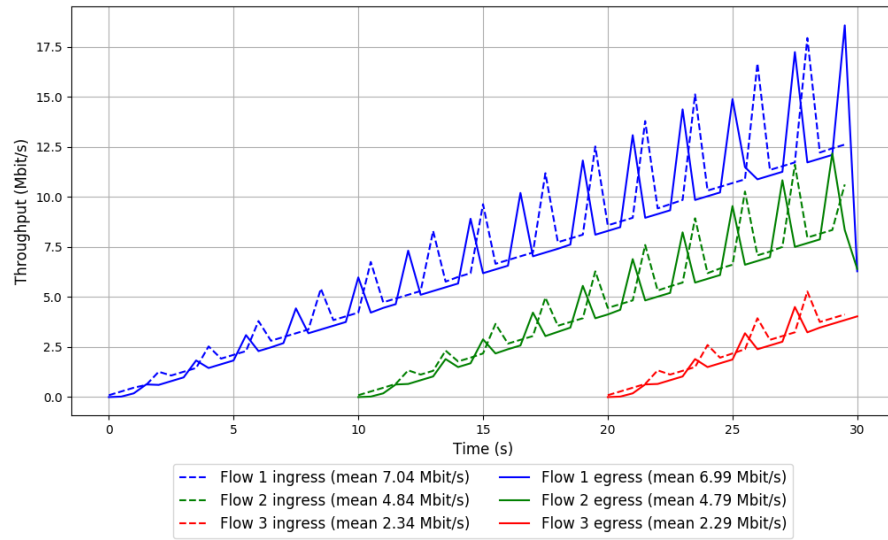
-- Flow 3:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 113.192 ms

Loss rate: 4.53%

Run 4: Report of LEDBAT — Data Link

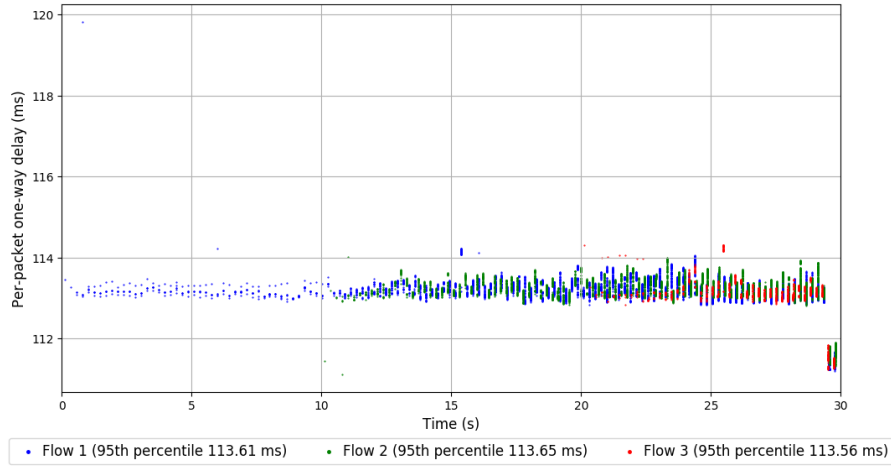
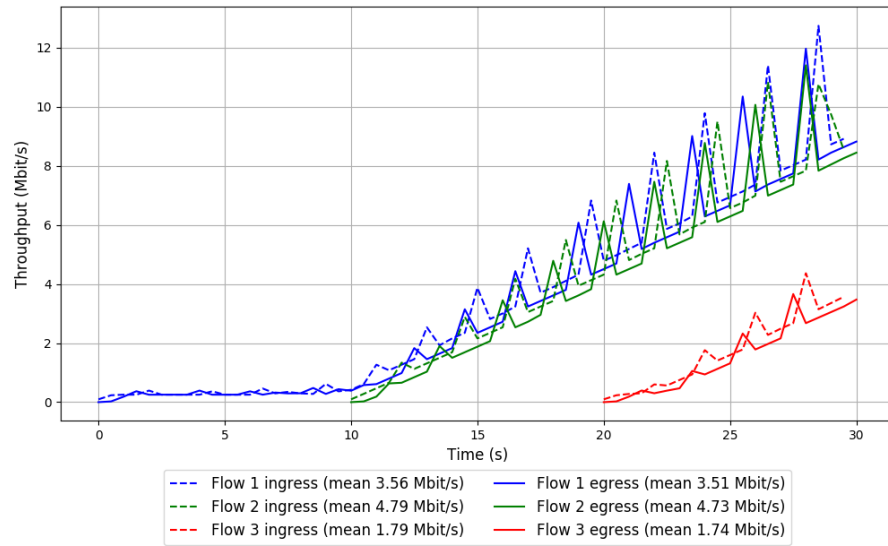


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 01:13:24
End at: 2018-06-19 01:13:54
Local clock offset: 0.664 ms
Remote clock offset: -0.428 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 113.632 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 113.605 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 4.73 Mbit/s
95th percentile per-packet one-way delay: 113.652 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 113.562 ms
Loss rate: 5.13%

Run 5: Report of LEDBAT — Data Link

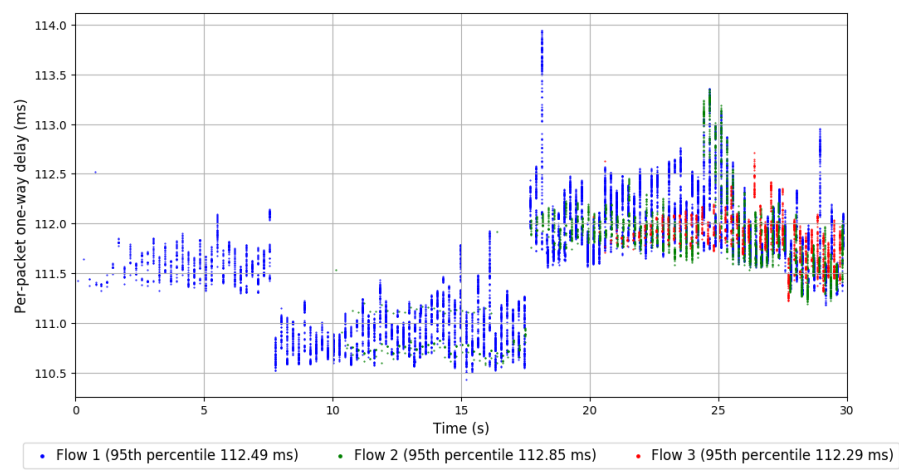
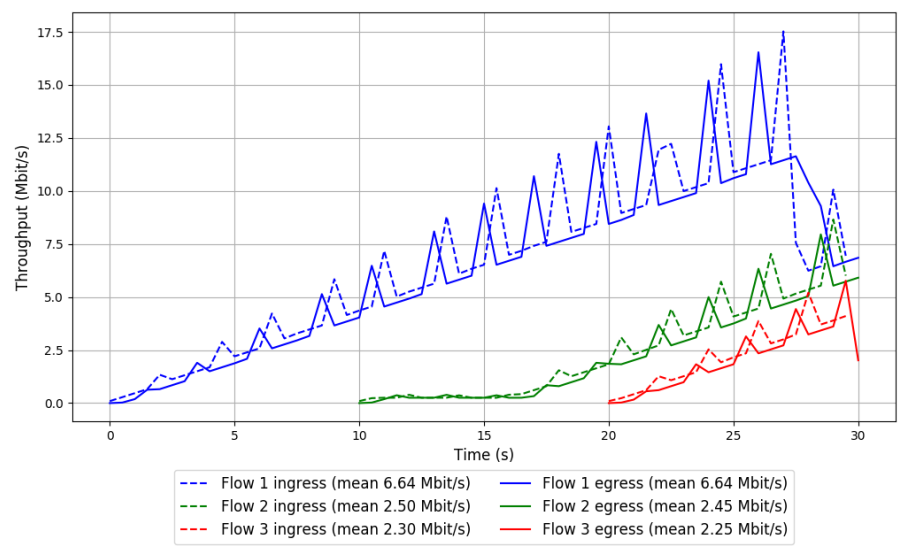


Run 6: Statistics of LEDBAT

Start at: 2018-06-19 01:37:46
End at: 2018-06-19 01:38:16
Local clock offset: -0.377 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 112.500 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 112.493 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 112.854 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 112.294 ms
Loss rate: 4.62%

Run 6: Report of LEDBAT — Data Link

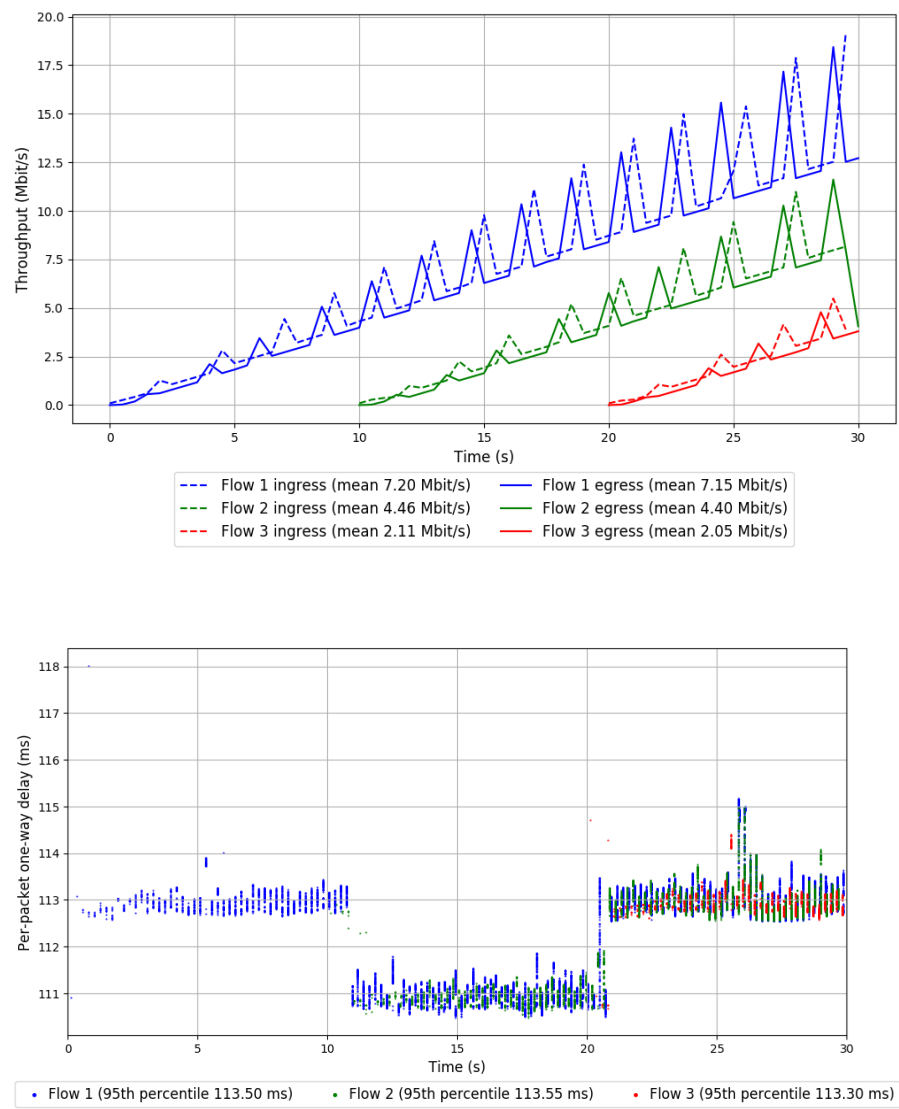


Run 7: Statistics of LEDBAT

Start at: 2018-06-19 02:01:43
End at: 2018-06-19 02:02:13
Local clock offset: 0.152 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 113.500 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 7.15 Mbit/s
95th percentile per-packet one-way delay: 113.495 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 113.545 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 113.300 ms
Loss rate: 4.71%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-19 02:25:50

End at: 2018-06-19 02:26:20

Local clock offset: -0.271 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.57 Mbit/s

95th percentile per-packet one-way delay: 111.463 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 111.469 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 4.76 Mbit/s

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

Loss rate: 2.25%

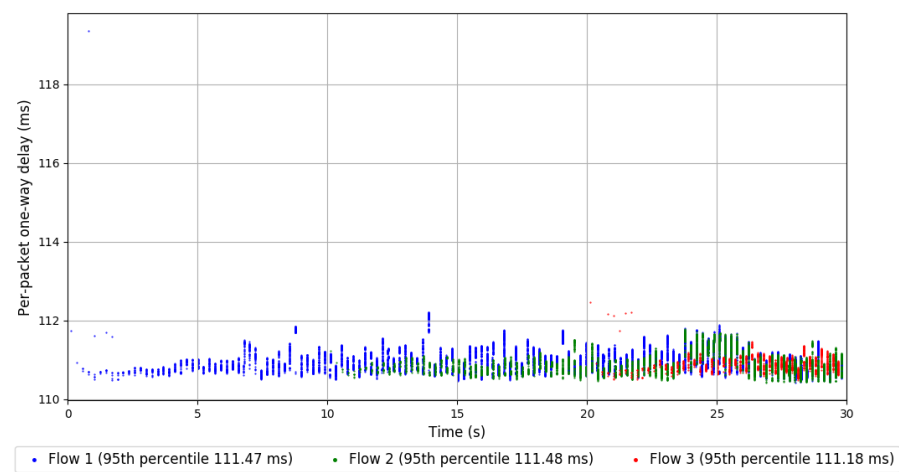
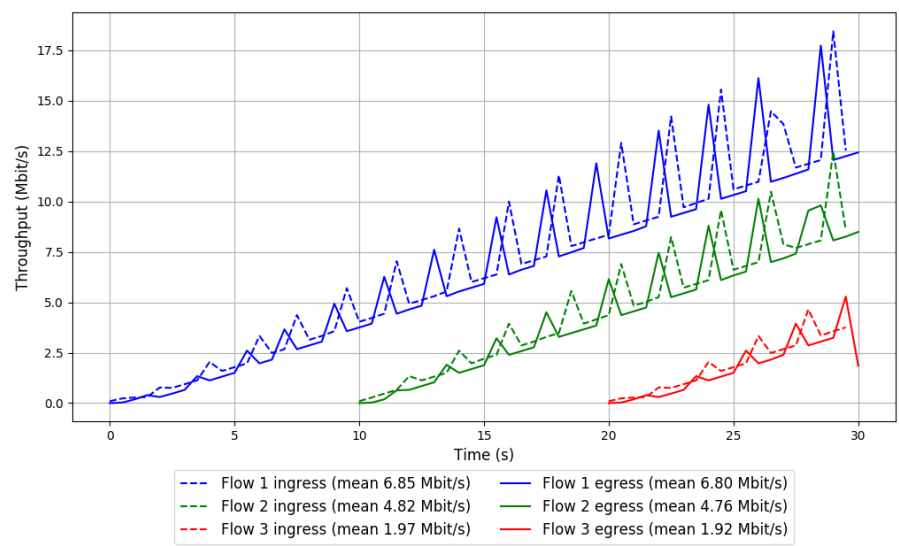
-- Flow 3:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 111.180 ms

Loss rate: 4.93%

Run 8: Report of LEDBAT — Data Link

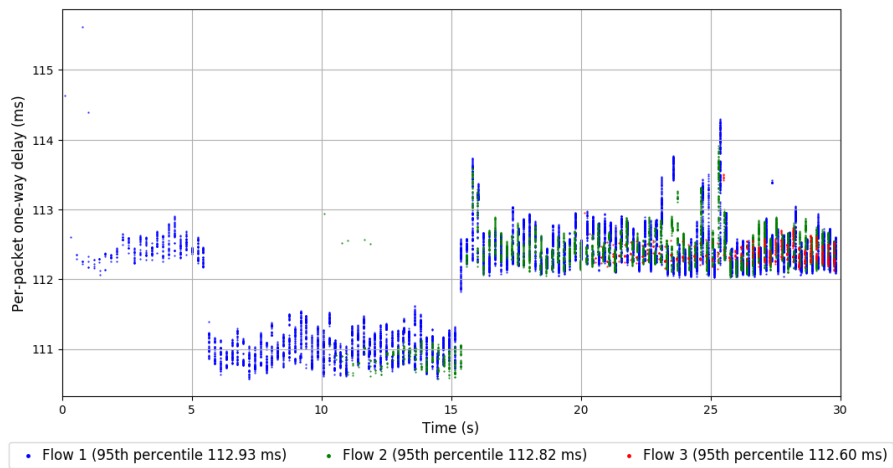
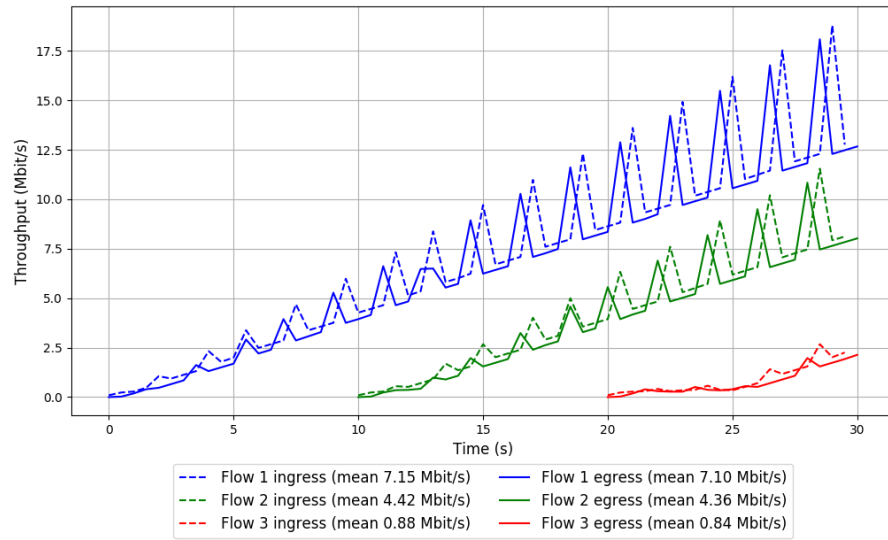


Run 9: Statistics of LEDBAT

Start at: 2018-06-19 02:49:38
End at: 2018-06-19 02:50:08
Local clock offset: 1.257 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.26 Mbit/s
95th percentile per-packet one-way delay: 112.899 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 112.932 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 112.819 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 112.597 ms
Loss rate: 6.65%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-19 03:13:29

End at: 2018-06-19 03:13:59

Local clock offset: 1.205 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.52 Mbit/s

95th percentile per-packet one-way delay: 113.636 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 113.695 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 113.520 ms

Loss rate: 2.25%

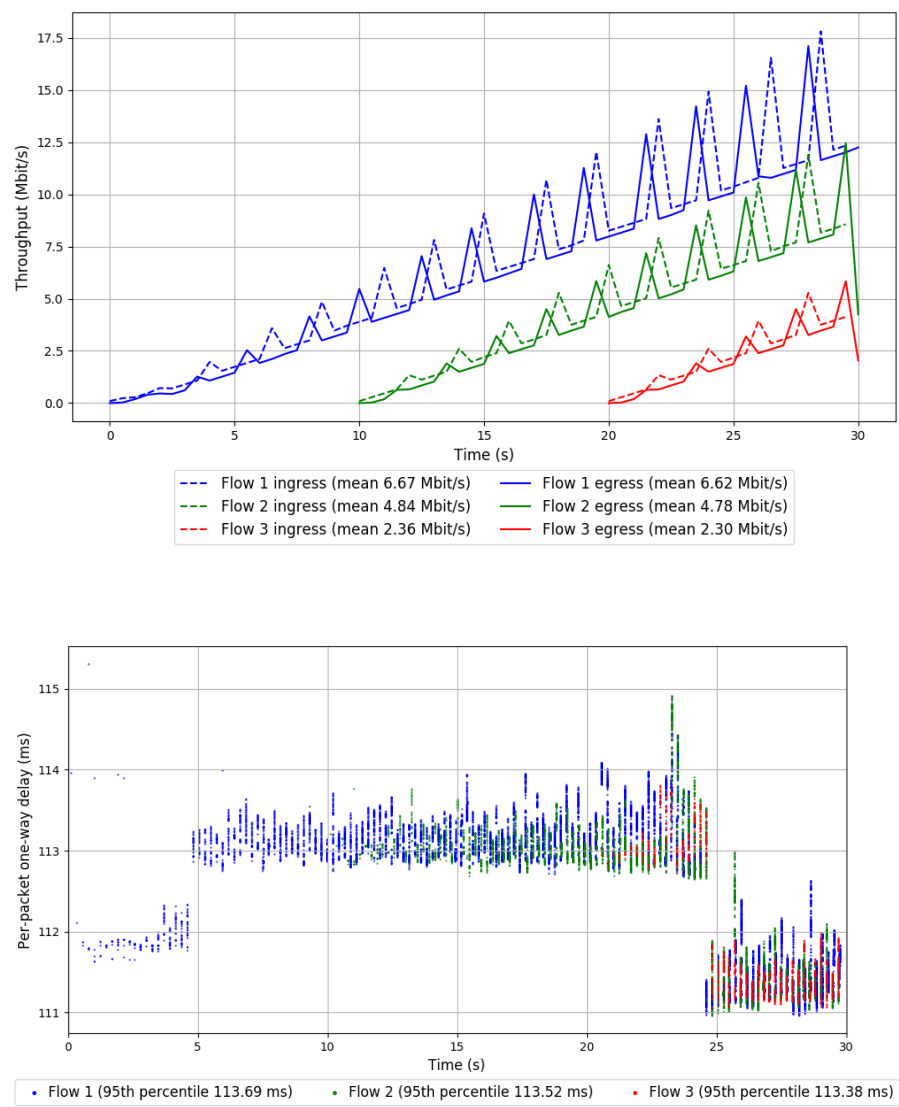
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 113.377 ms

Loss rate: 4.52%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-18 23:49:53

End at: 2018-06-18 23:50:23

Local clock offset: 1.068 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 584.43 Mbit/s

95th percentile per-packet one-way delay: 227.389 ms

Loss rate: 4.66%

-- Flow 1:

Average throughput: 495.35 Mbit/s

95th percentile per-packet one-way delay: 230.437 ms

Loss rate: 4.56%

-- Flow 2:

Average throughput: 119.65 Mbit/s

95th percentile per-packet one-way delay: 222.461 ms

Loss rate: 4.92%

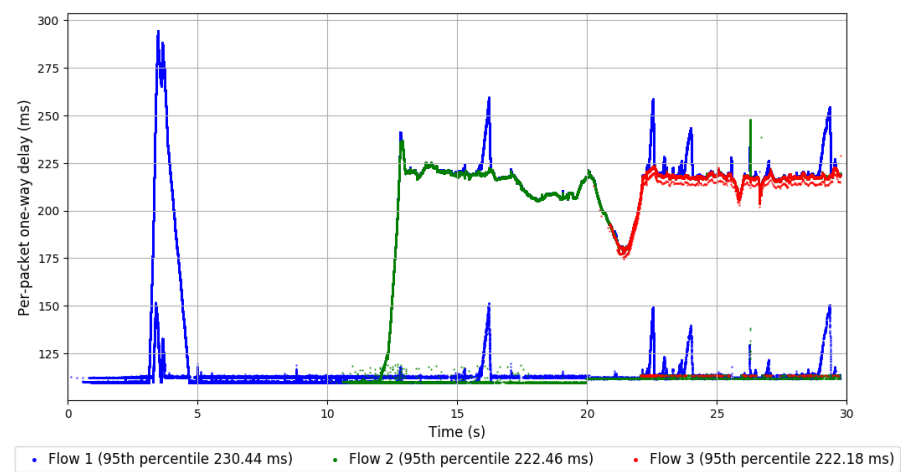
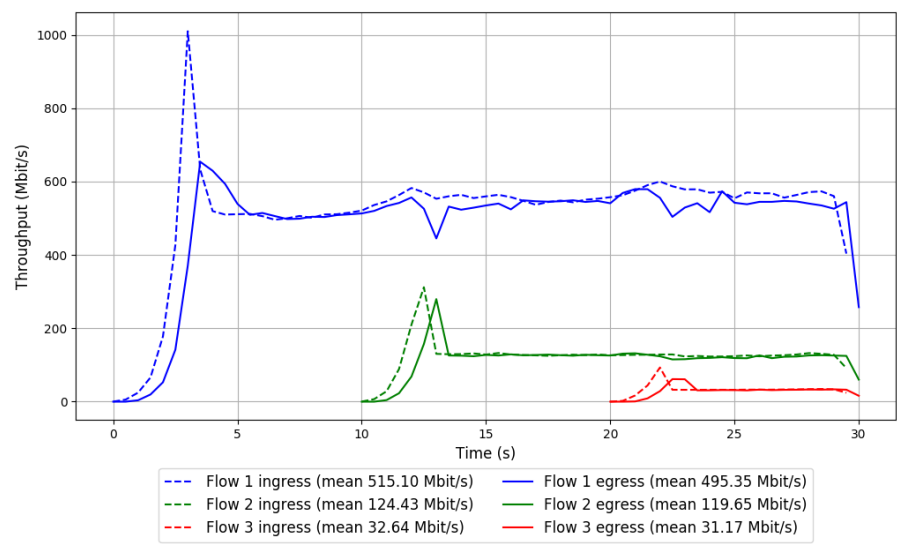
-- Flow 3:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 222.176 ms

Loss rate: 7.57%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 00:14:17

End at: 2018-06-19 00:14:47

Local clock offset: 0.16 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 554.69 Mbit/s

95th percentile per-packet one-way delay: 235.922 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 510.85 Mbit/s

95th percentile per-packet one-way delay: 235.893 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 65.15 Mbit/s

95th percentile per-packet one-way delay: 236.216 ms

Loss rate: 1.69%

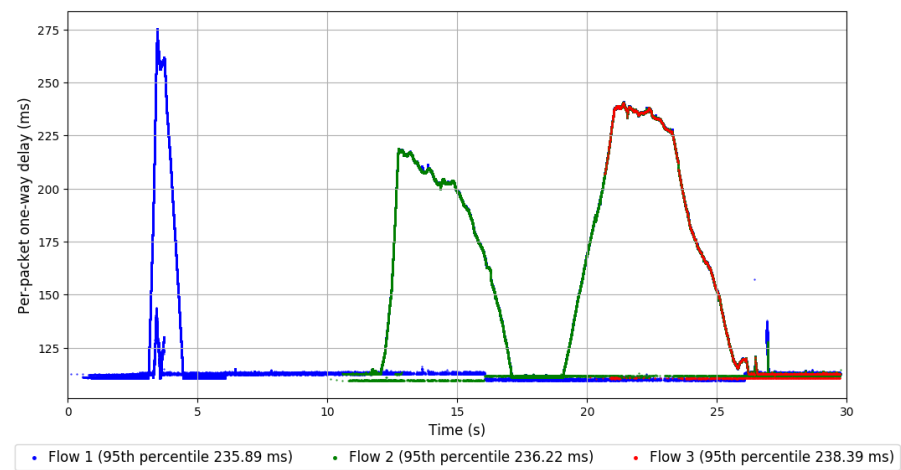
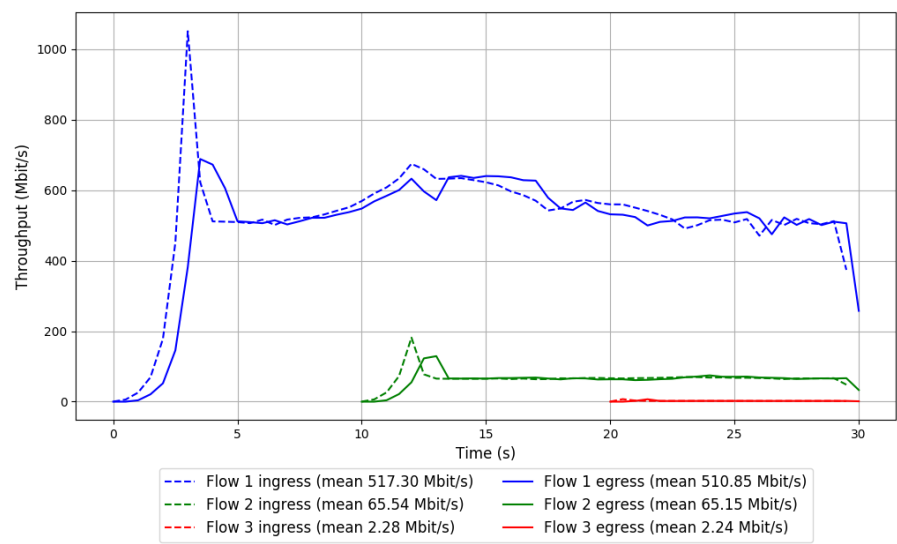
-- Flow 3:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 238.392 ms

Loss rate: 3.98%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 00:38:31

End at: 2018-06-19 00:39:01

Local clock offset: 0.419 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 588.73 Mbit/s

95th percentile per-packet one-way delay: 225.927 ms

Loss rate: 4.20%

-- Flow 1:

Average throughput: 558.78 Mbit/s

95th percentile per-packet one-way delay: 225.949 ms

Loss rate: 4.16%

-- Flow 2:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 225.291 ms

Loss rate: 3.80%

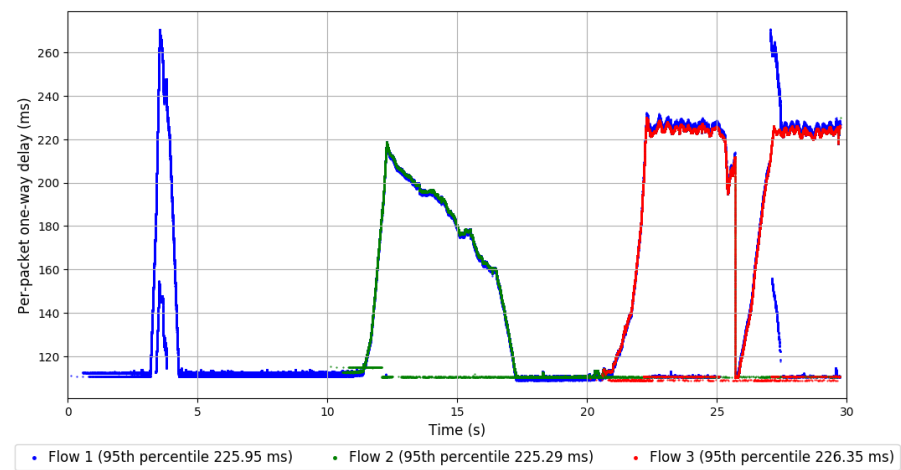
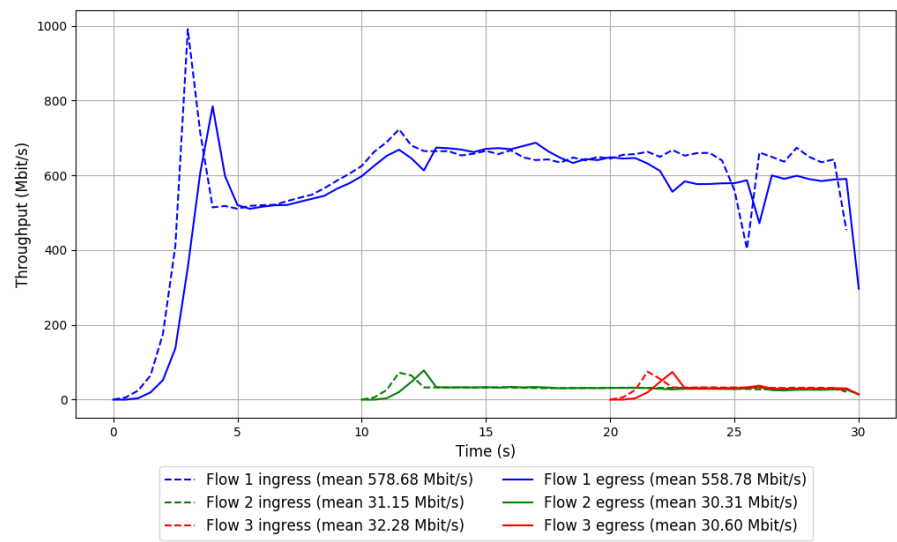
-- Flow 3:

Average throughput: 30.60 Mbit/s

95th percentile per-packet one-way delay: 226.347 ms

Loss rate: 7.35%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 01:02:45

End at: 2018-06-19 01:03:15

Local clock offset: 0.696 ms

Remote clock offset: 0.376 ms

Below is generated by plot.py at 2018-06-19 04:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 550.74 Mbit/s

95th percentile per-packet one-way delay: 233.353 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 510.90 Mbit/s

95th percentile per-packet one-way delay: 233.473 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 233.082 ms

Loss rate: 2.35%

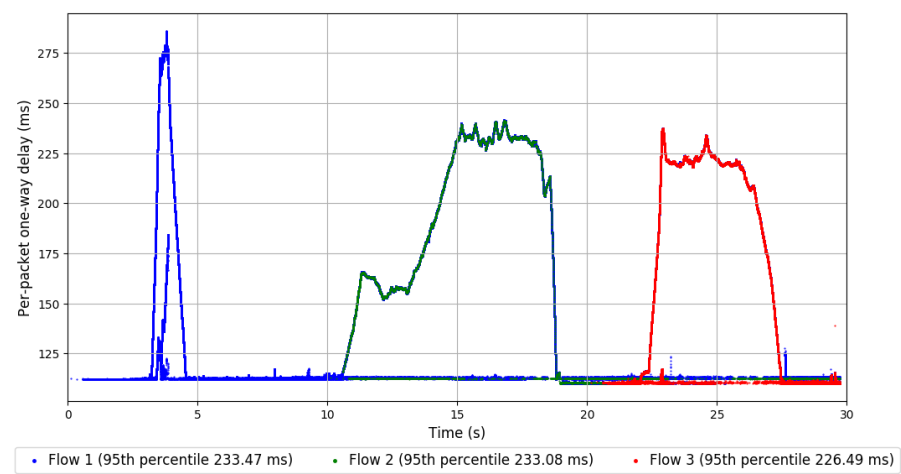
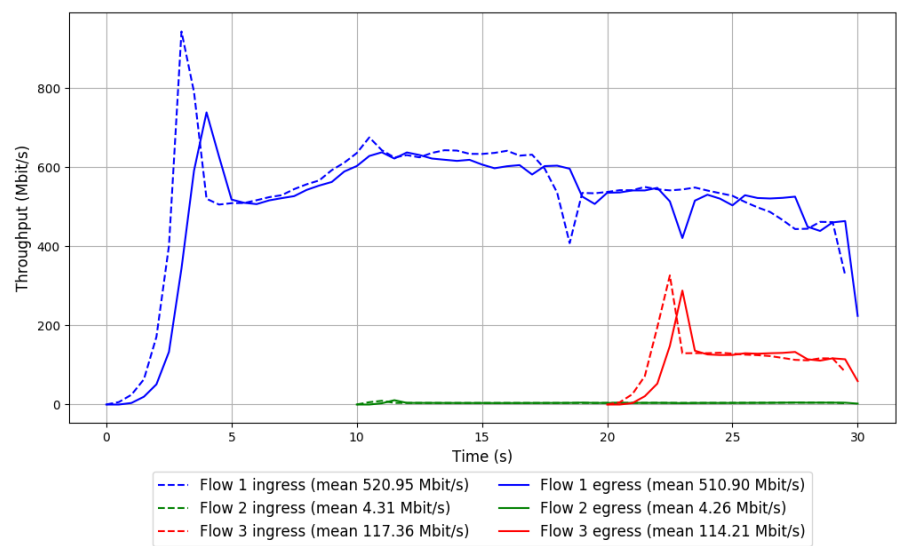
-- Flow 3:

Average throughput: 114.21 Mbit/s

95th percentile per-packet one-way delay: 226.490 ms

Loss rate: 4.89%

Run 4: Report of PCC-Allegro — Data Link

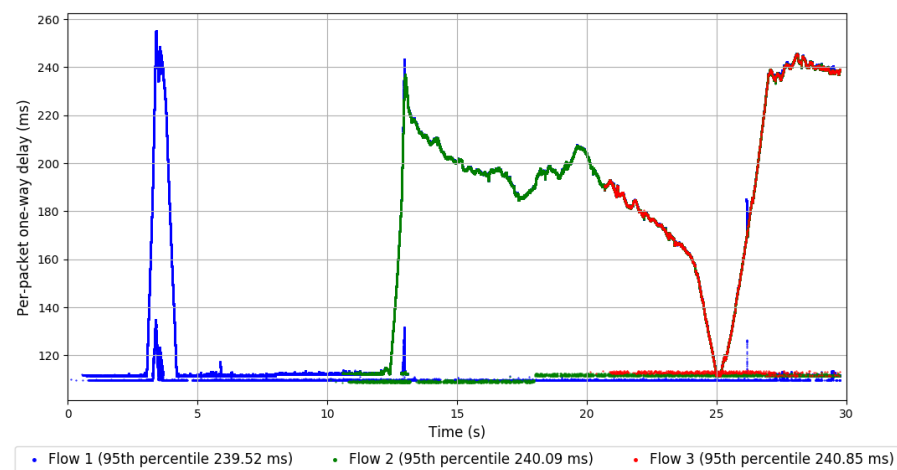
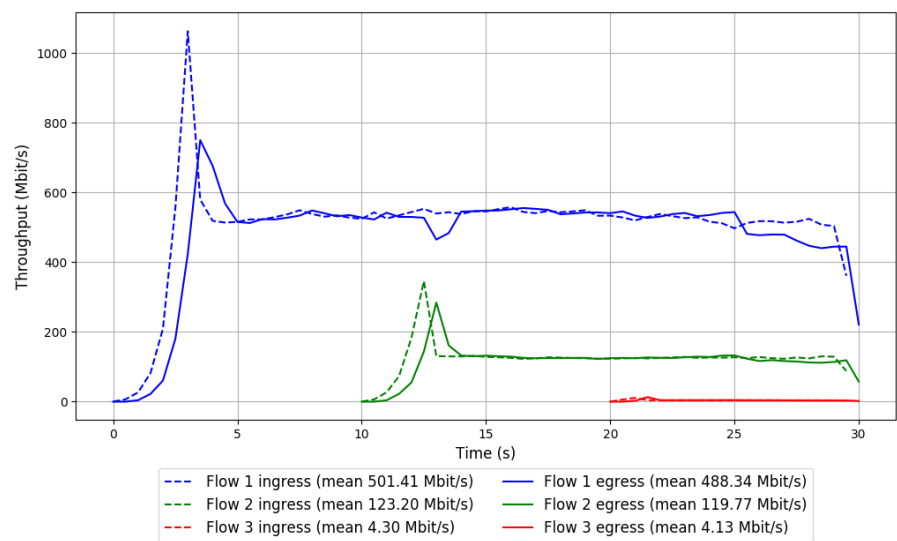


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 01:27:05
End at: 2018-06-19 01:27:35
Local clock offset: 0.623 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 569.00 Mbit/s
95th percentile per-packet one-way delay: 239.689 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 488.34 Mbit/s
95th percentile per-packet one-way delay: 239.524 ms
Loss rate: 3.33%
-- Flow 2:
Average throughput: 119.77 Mbit/s
95th percentile per-packet one-way delay: 240.091 ms
Loss rate: 3.87%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 240.849 ms
Loss rate: 6.05%

Run 5: Report of PCC-Allegro — Data Link

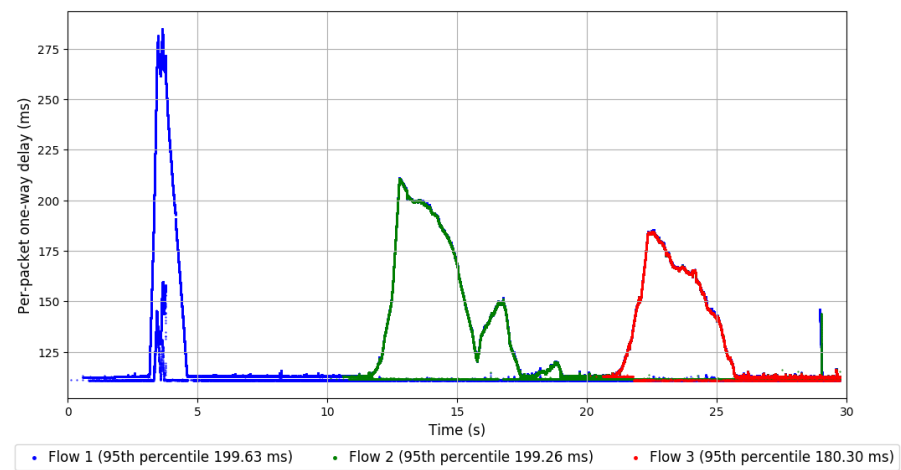
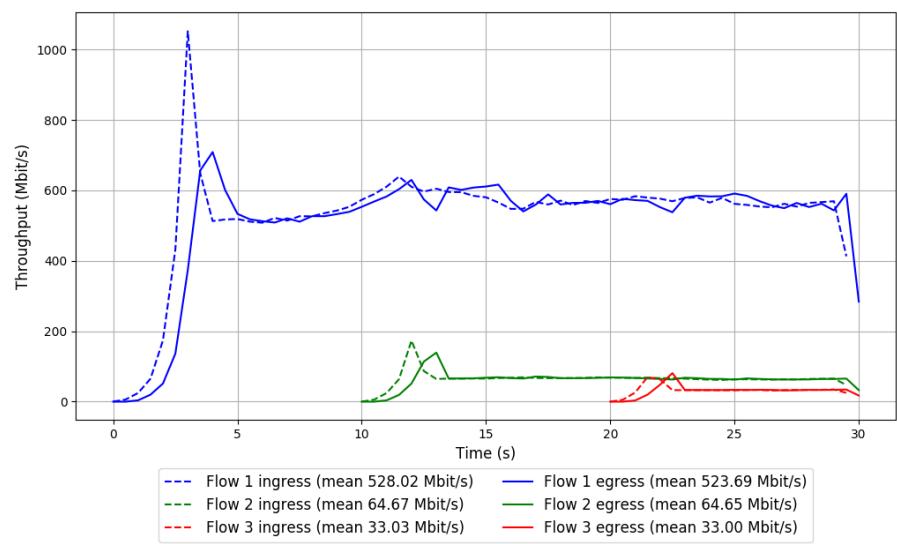


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 01:51:02
End at: 2018-06-19 01:51:32
Local clock offset: 0.869 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-19 04:56:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 577.15 Mbit/s
95th percentile per-packet one-way delay: 199.561 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 523.69 Mbit/s
95th percentile per-packet one-way delay: 199.632 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 64.65 Mbit/s
95th percentile per-packet one-way delay: 199.263 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 180.304 ms
Loss rate: 2.38%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 02:15:08

End at: 2018-06-19 02:15:38

Local clock offset: -0.03 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-06-19 04:57:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 567.90 Mbit/s

95th percentile per-packet one-way delay: 226.990 ms

Loss rate: 3.28%

-- Flow 1:

Average throughput: 488.16 Mbit/s

95th percentile per-packet one-way delay: 226.814 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 119.29 Mbit/s

95th percentile per-packet one-way delay: 228.390 ms

Loss rate: 3.81%

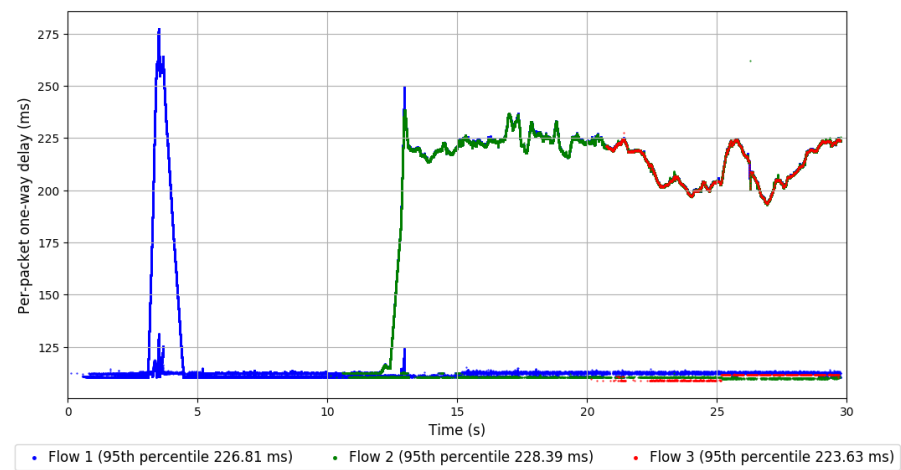
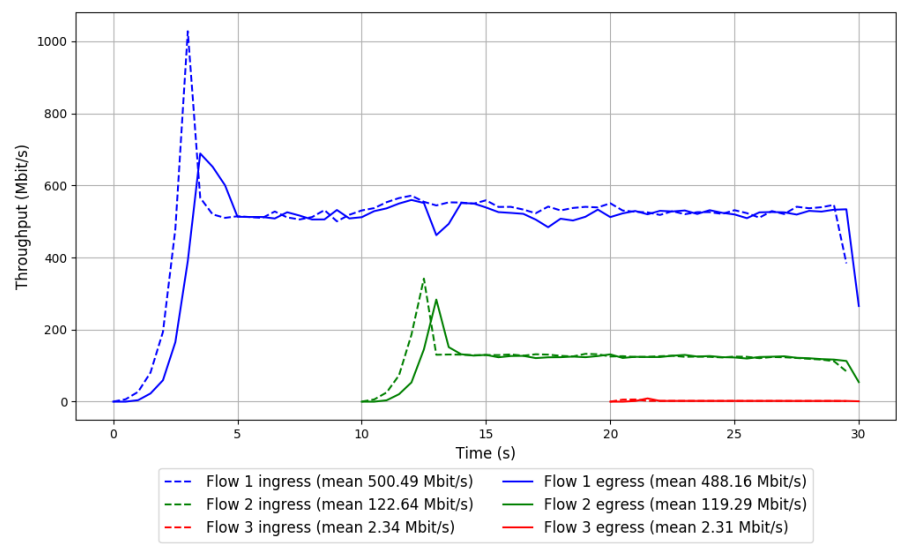
-- Flow 3:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 223.631 ms

Loss rate: 3.23%

Run 7: Report of PCC-Allegro — Data Link

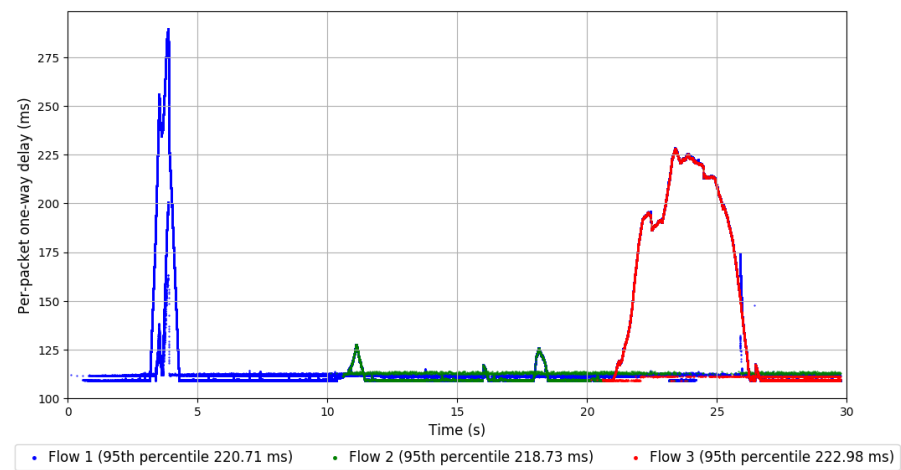
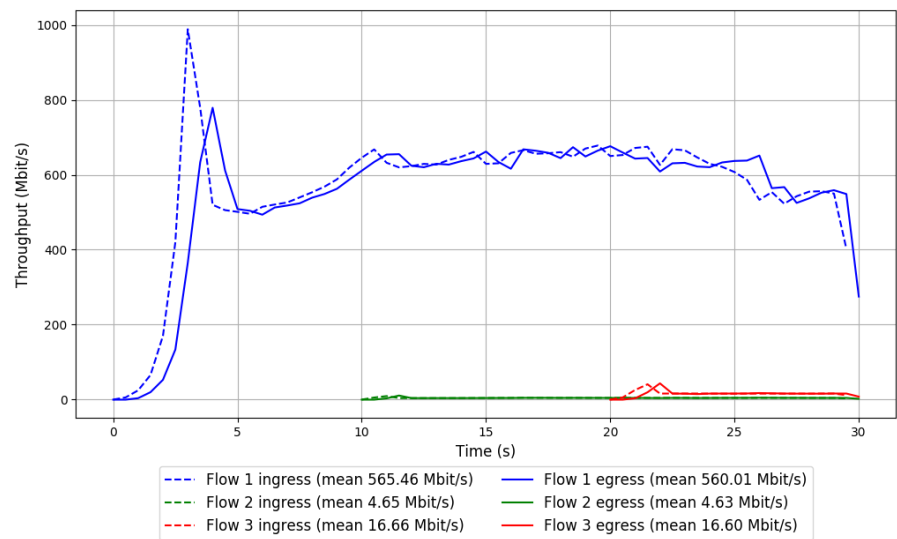


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 02:39:01
End at: 2018-06-19 02:39:31
Local clock offset: -0.224 ms
Remote clock offset: -0.308 ms

Below is generated by plot.py at 2018-06-19 04:58:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.45 Mbit/s
95th percentile per-packet one-way delay: 220.779 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 560.01 Mbit/s
95th percentile per-packet one-way delay: 220.707 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 218.734 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 16.60 Mbit/s
95th percentile per-packet one-way delay: 222.978 ms
Loss rate: 2.57%

Run 8: Report of PCC-Allegro — Data Link

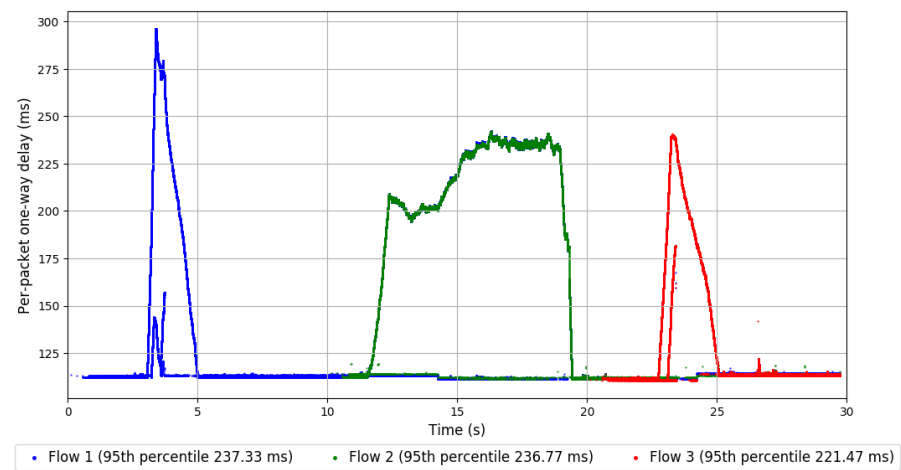
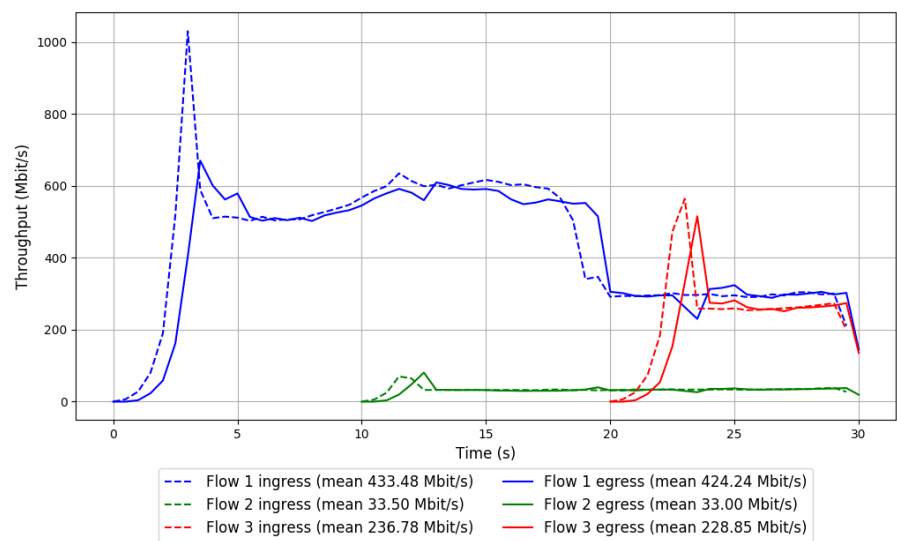


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 03:02:39
End at: 2018-06-19 03:03:09
Local clock offset: 1.23 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-06-19 04:59:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 520.36 Mbit/s
95th percentile per-packet one-way delay: 237.106 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 424.24 Mbit/s
95th percentile per-packet one-way delay: 237.330 ms
Loss rate: 2.86%
-- Flow 2:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 236.767 ms
Loss rate: 2.60%
-- Flow 3:
Average throughput: 228.85 Mbit/s
95th percentile per-packet one-way delay: 221.470 ms
Loss rate: 5.53%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 03:26:58

End at: 2018-06-19 03:27:28

Local clock offset: -0.374 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-06-19 05:00:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.89 Mbit/s

95th percentile per-packet one-way delay: 237.811 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 513.85 Mbit/s

95th percentile per-packet one-way delay: 237.804 ms

Loss rate: 4.11%

-- Flow 2:

Average throughput: 62.36 Mbit/s

95th percentile per-packet one-way delay: 237.898 ms

Loss rate: 3.88%

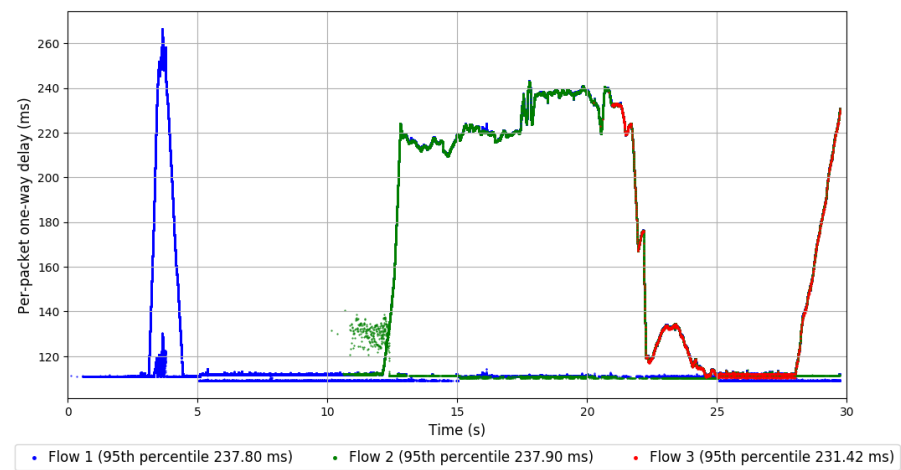
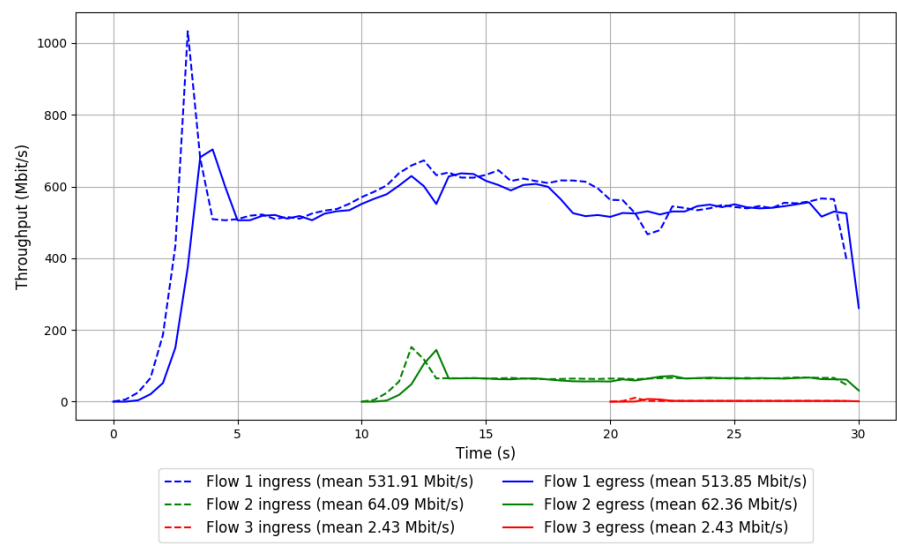
-- Flow 3:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 231.418 ms

Loss rate: 3.32%

Run 10: Report of PCC-Allegro — Data Link

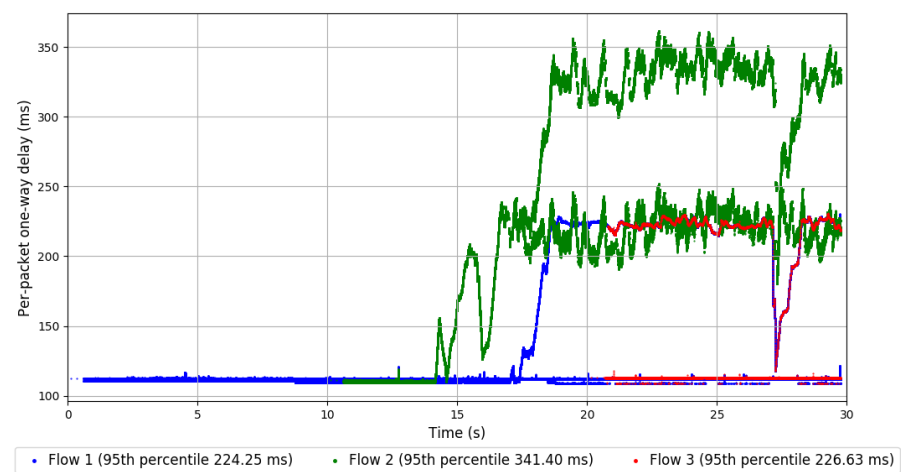
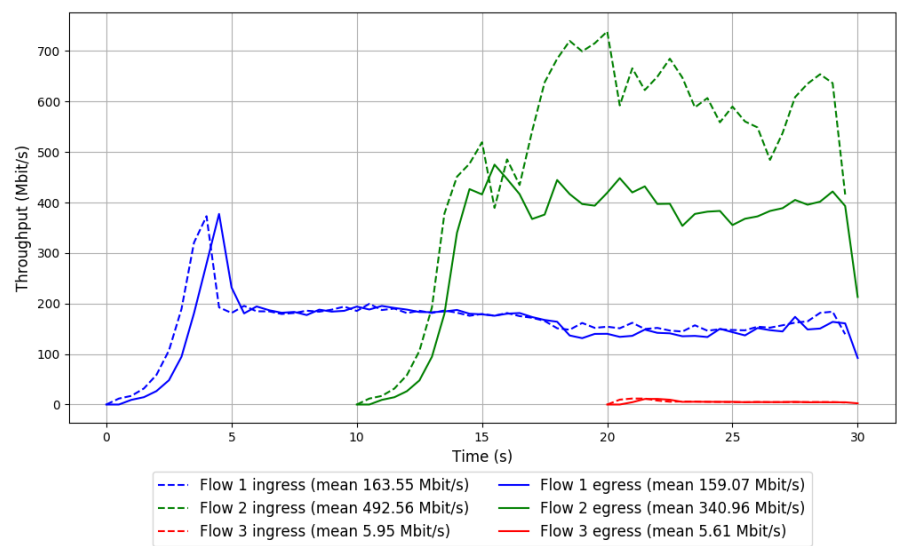


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-18 23:48:05
End at: 2018-06-18 23:48:35
Local clock offset: -0.017 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-19 05:04:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.79 Mbit/s
95th percentile per-packet one-way delay: 336.859 ms
Loss rate: 22.15%
-- Flow 1:
Average throughput: 159.07 Mbit/s
95th percentile per-packet one-way delay: 224.251 ms
Loss rate: 3.49%
-- Flow 2:
Average throughput: 340.96 Mbit/s
95th percentile per-packet one-way delay: 341.405 ms
Loss rate: 31.56%
-- Flow 3:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 226.635 ms
Loss rate: 8.03%
```

Run 1: Report of PCC-Expr — Data Link

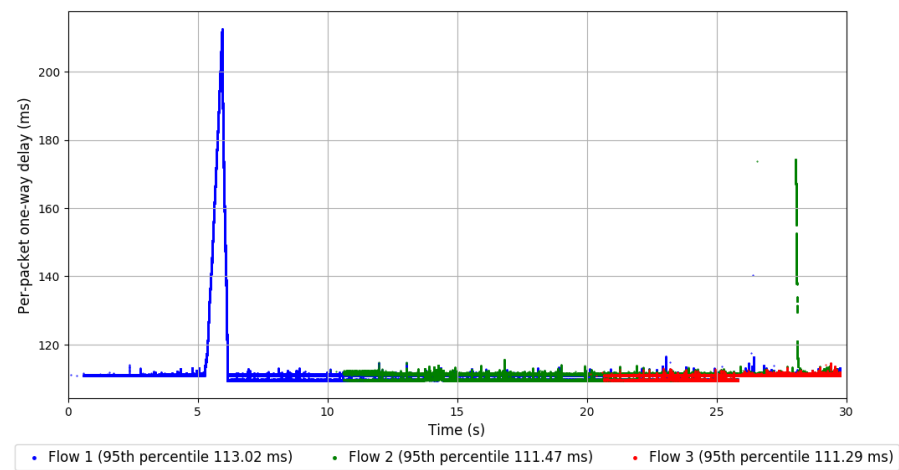
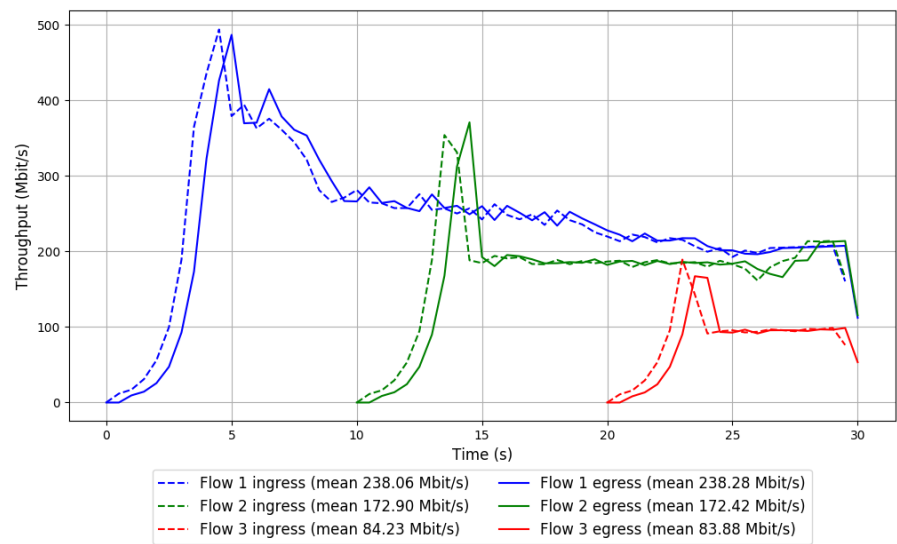


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 00:12:27
End at: 2018-06-19 00:12:57
Local clock offset: -1.361 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-06-19 05:04:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 379.76 Mbit/s
95th percentile per-packet one-way delay: 111.647 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 238.28 Mbit/s
95th percentile per-packet one-way delay: 113.022 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 172.42 Mbit/s
95th percentile per-packet one-way delay: 111.467 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 111.286 ms
Loss rate: 2.69%
```

Run 2: Report of PCC-Expr — Data Link

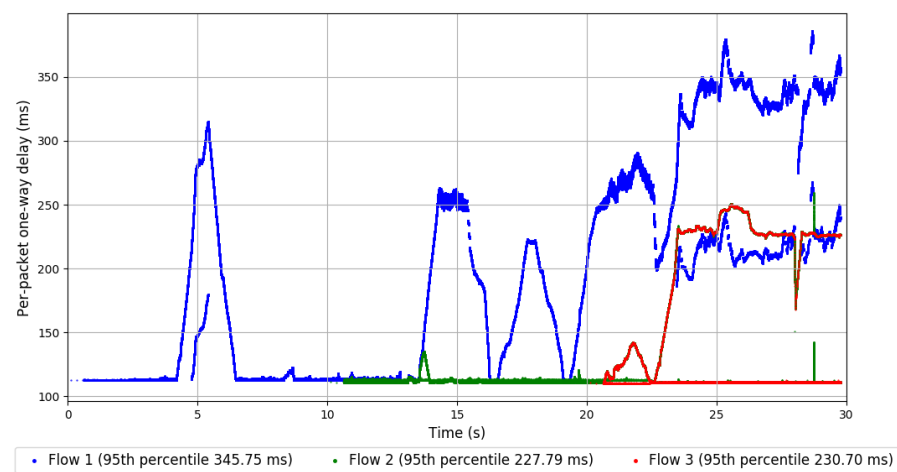
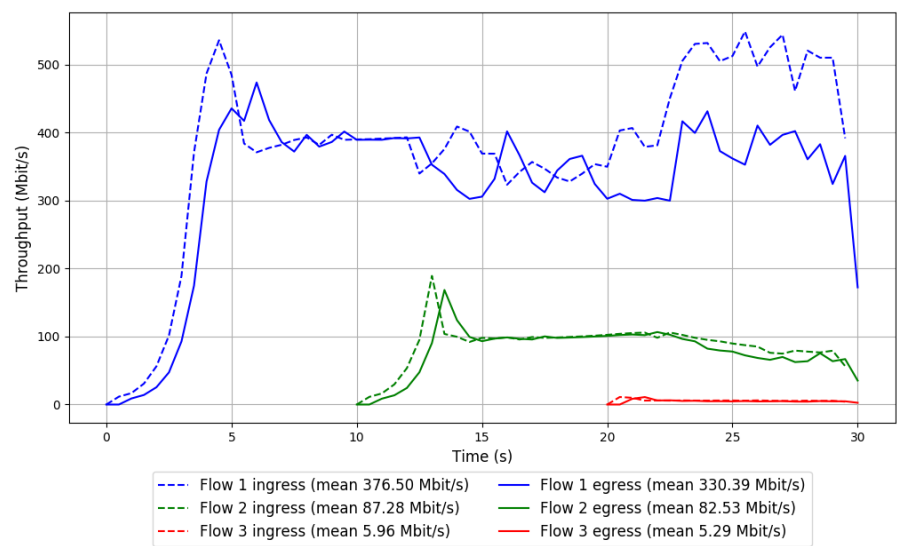


Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 00:36:41
End at: 2018-06-19 00:37:11
Local clock offset: 0.276 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-06-19 05:09:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 386.78 Mbit/s
95th percentile per-packet one-way delay: 344.902 ms
Loss rate: 12.06%
-- Flow 1:
Average throughput: 330.39 Mbit/s
95th percentile per-packet one-way delay: 345.752 ms
Loss rate: 12.91%
-- Flow 2:
Average throughput: 82.53 Mbit/s
95th percentile per-packet one-way delay: 227.792 ms
Loss rate: 6.51%
-- Flow 3:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 230.703 ms
Loss rate: 13.17%

Run 3: Report of PCC-Expr — Data Link

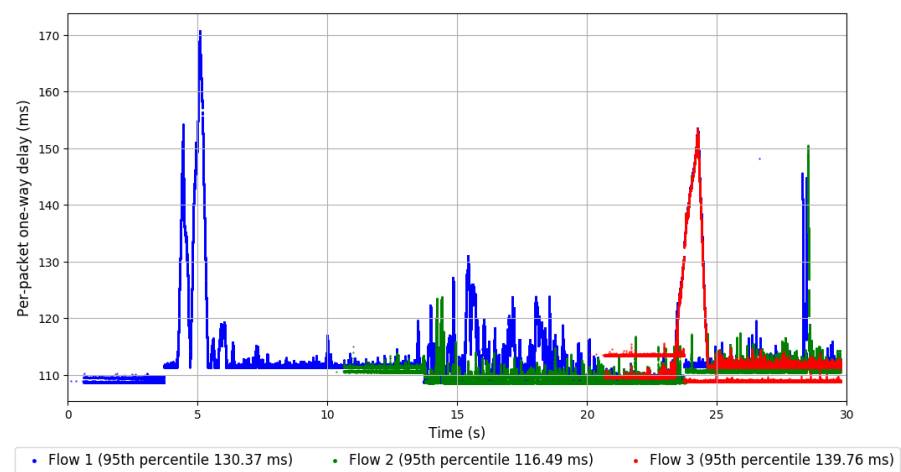
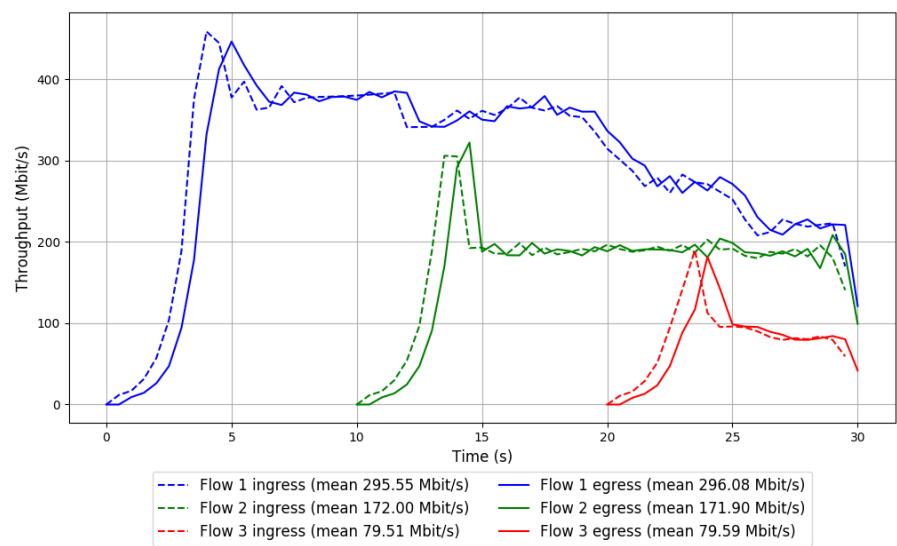


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 01:00:50
End at: 2018-06-19 01:01:20
Local clock offset: -0.805 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-06-19 05:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 435.78 Mbit/s
95th percentile per-packet one-way delay: 128.003 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 296.08 Mbit/s
95th percentile per-packet one-way delay: 130.371 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 171.90 Mbit/s
95th percentile per-packet one-way delay: 116.486 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 139.758 ms
Loss rate: 2.21%

Run 4: Report of PCC-Expr — Data Link

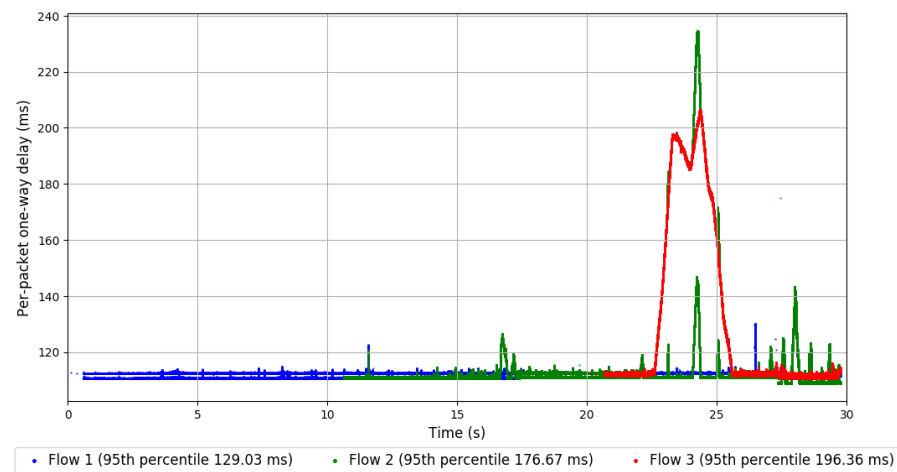
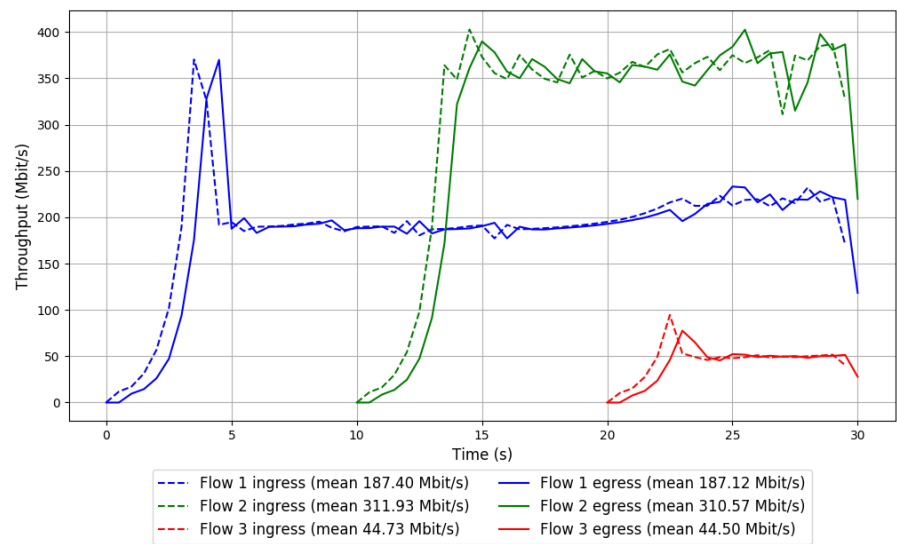


Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 01:25:16
End at: 2018-06-19 01:25:46
Local clock offset: 0.83 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-19 05:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 407.36 Mbit/s
95th percentile per-packet one-way delay: 172.470 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 187.12 Mbit/s
95th percentile per-packet one-way delay: 129.029 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 310.57 Mbit/s
95th percentile per-packet one-way delay: 176.668 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 44.50 Mbit/s
95th percentile per-packet one-way delay: 196.363 ms
Loss rate: 2.75%

Run 5: Report of PCC-Expr — Data Link

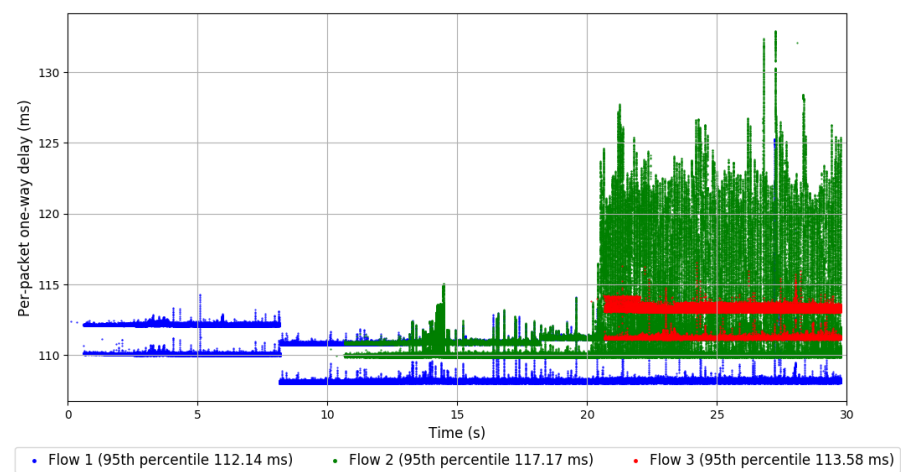
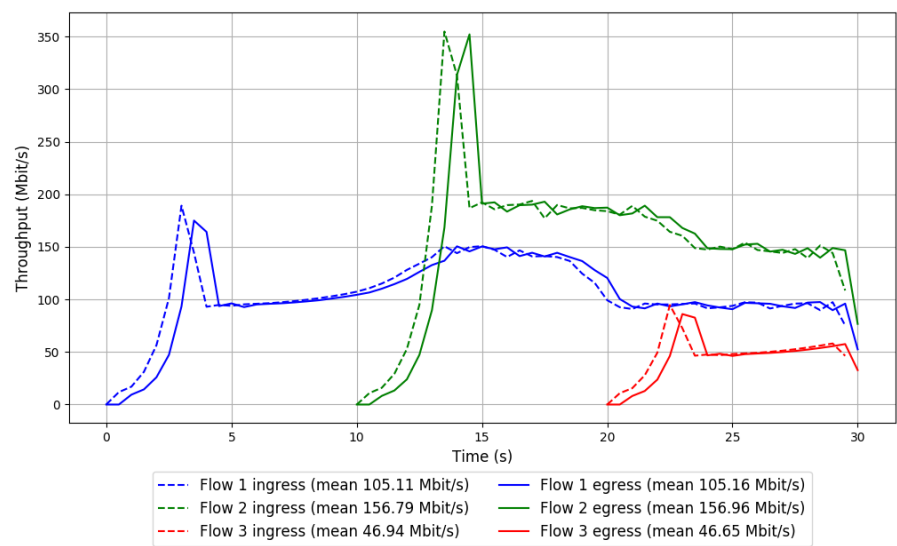


Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 01:49:25
End at: 2018-06-19 01:49:55
Local clock offset: -0.743 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-19 05:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 224.32 Mbit/s
95th percentile per-packet one-way delay: 113.356 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 105.16 Mbit/s
95th percentile per-packet one-way delay: 112.144 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 156.96 Mbit/s
95th percentile per-packet one-way delay: 117.165 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 113.577 ms
Loss rate: 2.91%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 02:13:11

End at: 2018-06-19 02:13:41

Local clock offset: 0.871 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-19 05:14:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 446.41 Mbit/s

95th percentile per-packet one-way delay: 237.215 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 325.03 Mbit/s

95th percentile per-packet one-way delay: 247.149 ms

Loss rate: 3.28%

-- Flow 2:

Average throughput: 141.08 Mbit/s

95th percentile per-packet one-way delay: 115.162 ms

Loss rate: 1.04%

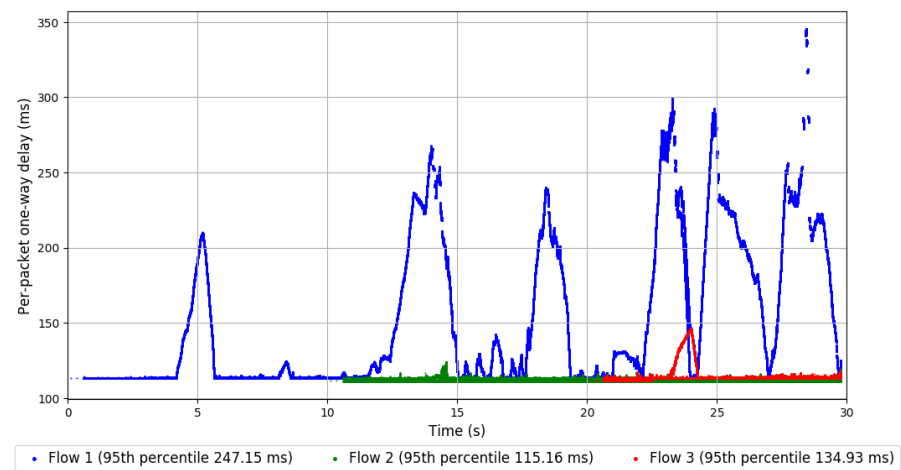
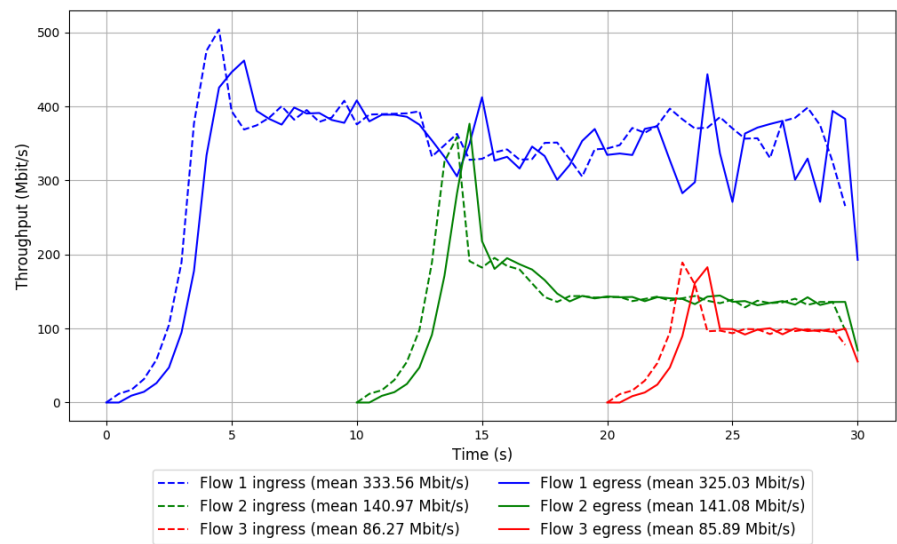
-- Flow 3:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 134.931 ms

Loss rate: 2.68%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 02:37:13

End at: 2018-06-19 02:37:43

Local clock offset: -0.09 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-06-19 05:14:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.39 Mbit/s

95th percentile per-packet one-way delay: 145.743 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 325.87 Mbit/s

95th percentile per-packet one-way delay: 160.534 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 83.88 Mbit/s

95th percentile per-packet one-way delay: 111.698 ms

Loss rate: 1.96%

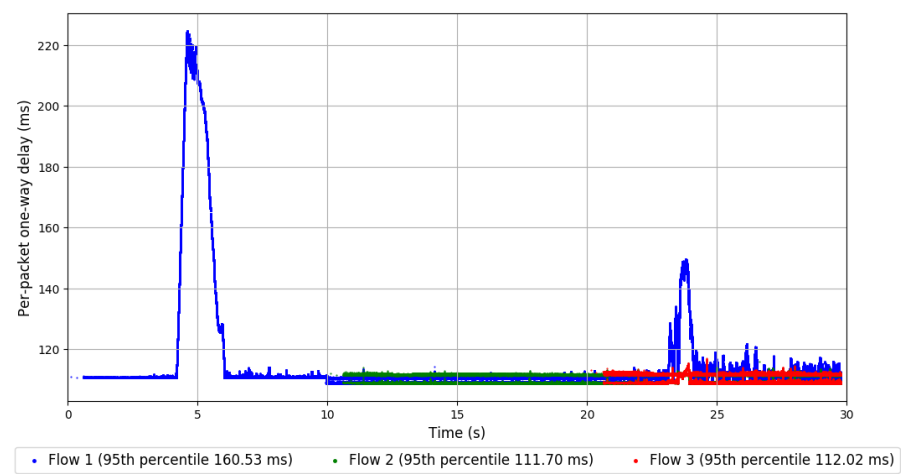
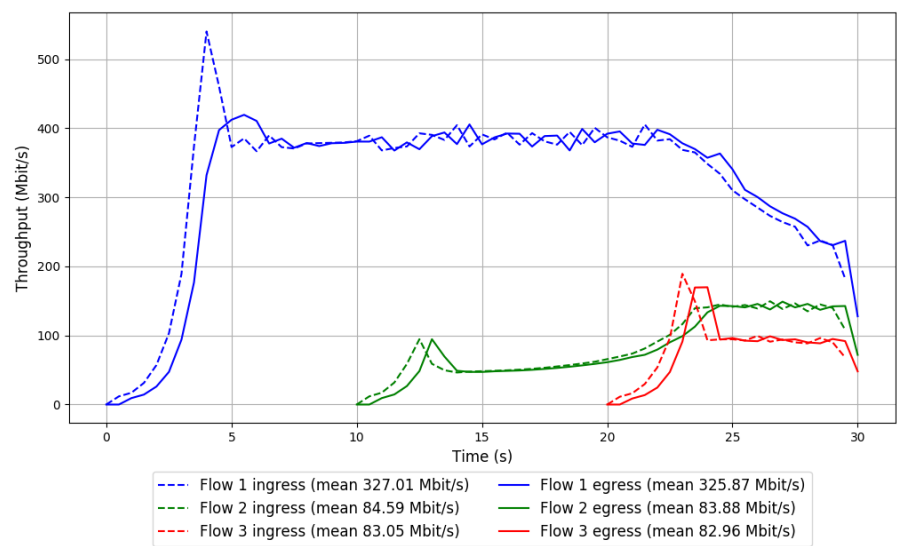
-- Flow 3:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 112.020 ms

Loss rate: 2.40%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 03:01:04

End at: 2018-06-19 03:01:34

Local clock offset: -0.405 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-19 05:14:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.79 Mbit/s

95th percentile per-packet one-way delay: 112.313 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 112.381 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 112.122 ms

Loss rate: 1.23%

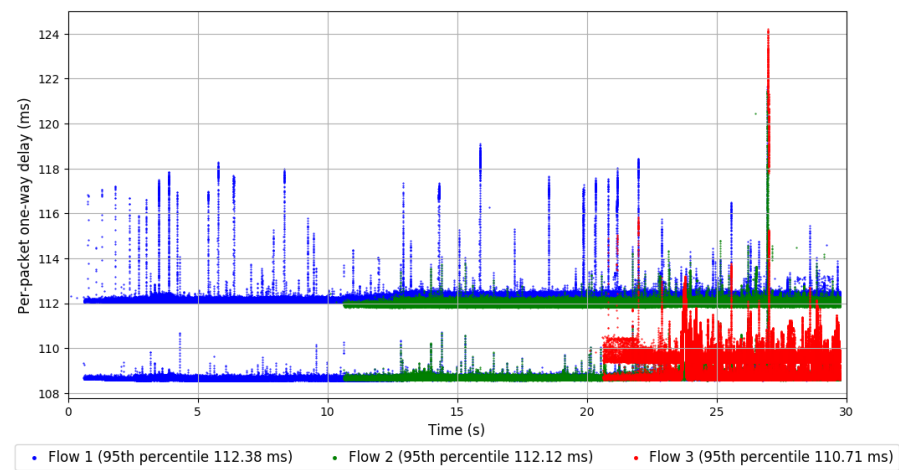
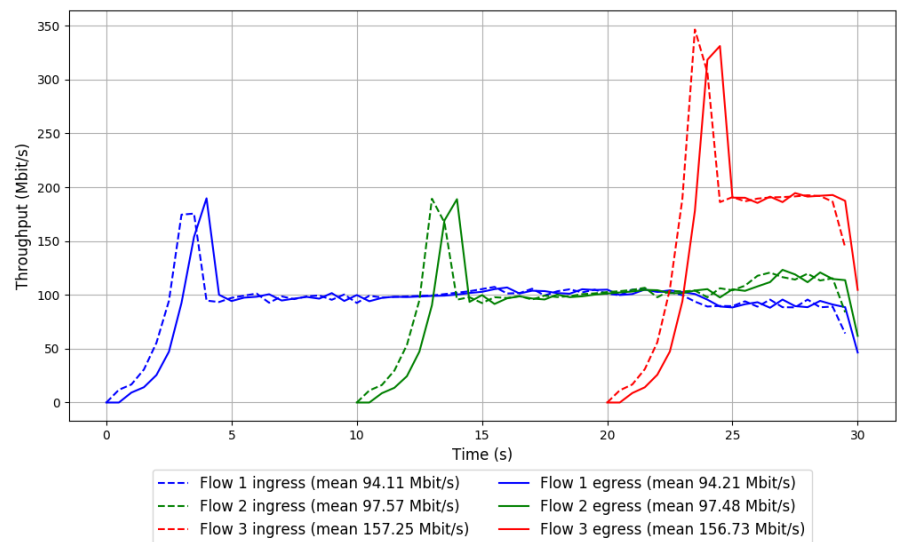
-- Flow 3:

Average throughput: 156.73 Mbit/s

95th percentile per-packet one-way delay: 110.711 ms

Loss rate: 2.58%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 03:25:09

End at: 2018-06-19 03:25:39

Local clock offset: -1.264 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-19 05:20:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 426.07 Mbit/s

95th percentile per-packet one-way delay: 331.288 ms

Loss rate: 11.51%

-- Flow 1:

Average throughput: 365.87 Mbit/s

95th percentile per-packet one-way delay: 332.635 ms

Loss rate: 12.67%

-- Flow 2:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 234.860 ms

Loss rate: 3.51%

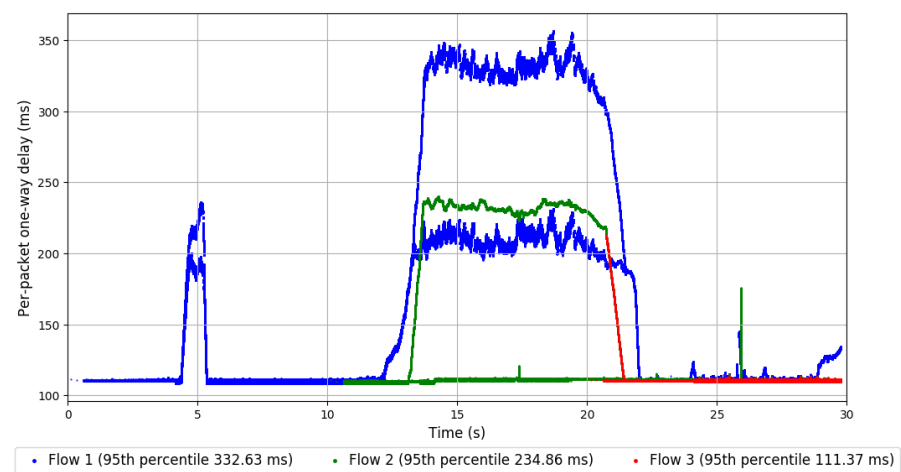
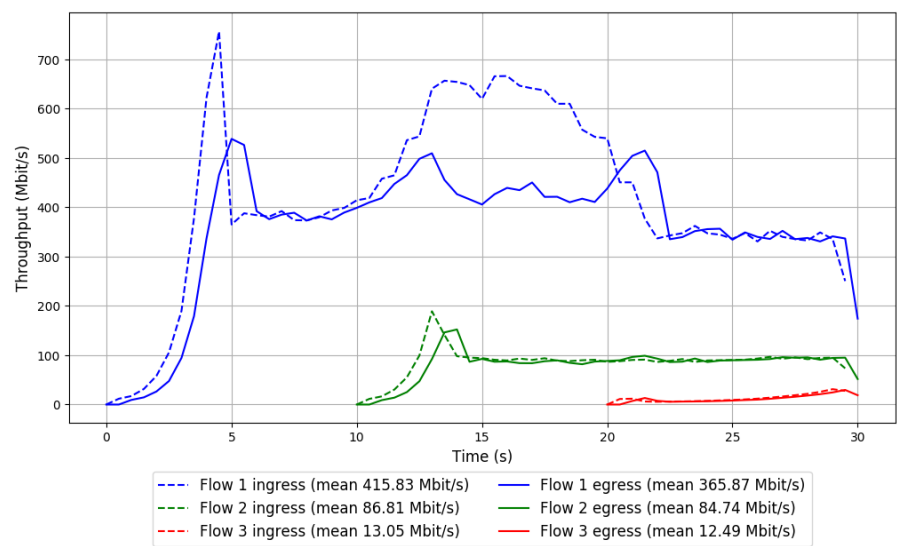
-- Flow 3:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 111.369 ms

Loss rate: 6.44%

Run 10: Report of PCC-Expr — Data Link

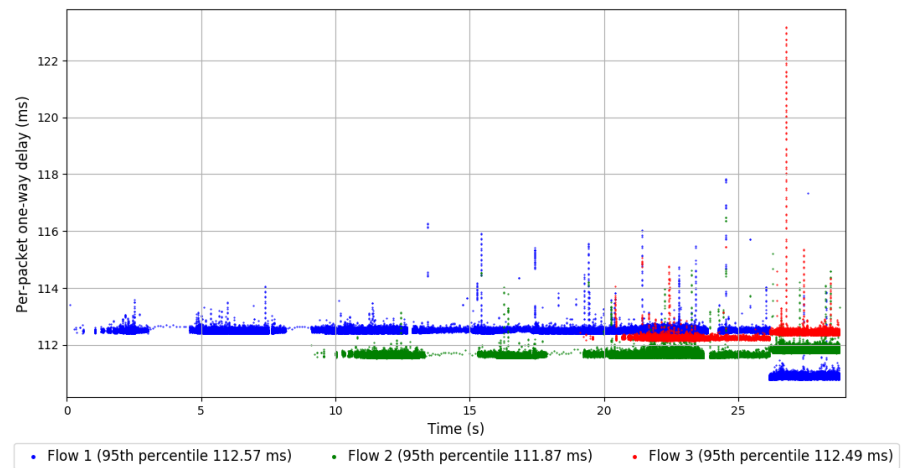
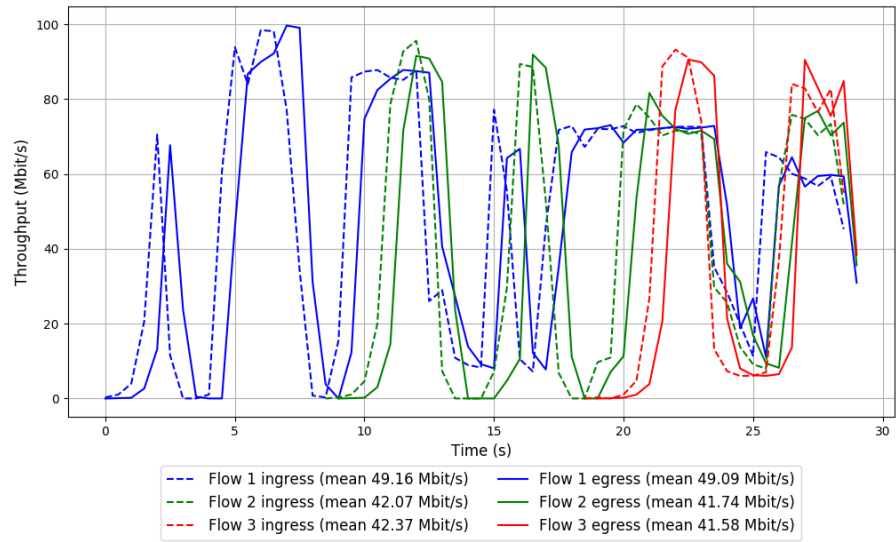


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-18 23:54:16
End at: 2018-06-18 23:54:46
Local clock offset: -0.169 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-19 05:20:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.78 Mbit/s
95th percentile per-packet one-way delay: 112.546 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 49.09 Mbit/s
95th percentile per-packet one-way delay: 112.570 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 111.874 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 41.58 Mbit/s
95th percentile per-packet one-way delay: 112.488 ms
Loss rate: 4.06%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 00:18:41

End at: 2018-06-19 00:19:11

Local clock offset: -0.913 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-06-19 05:20:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.98 Mbit/s

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

Loss rate: 1.66%

-- Flow 1:

Average throughput: 57.62 Mbit/s

95th percentile per-packet one-way delay: 109.702 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 57.66 Mbit/s

95th percentile per-packet one-way delay: 111.722 ms

Loss rate: 1.58%

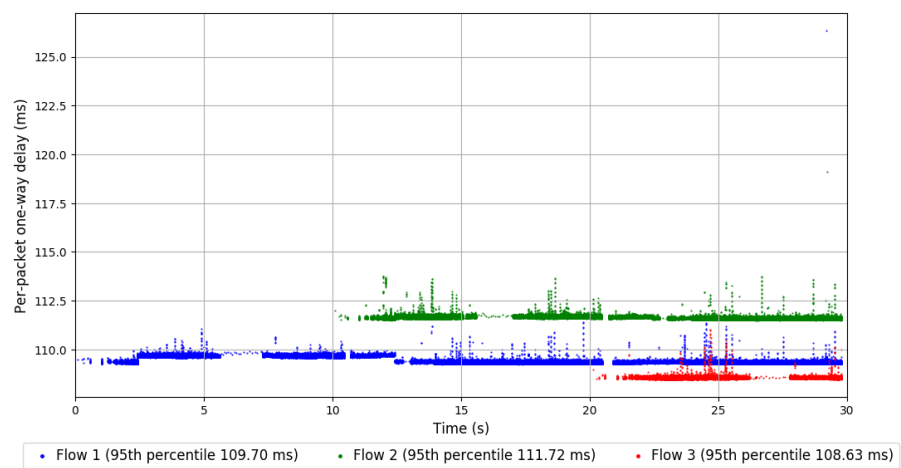
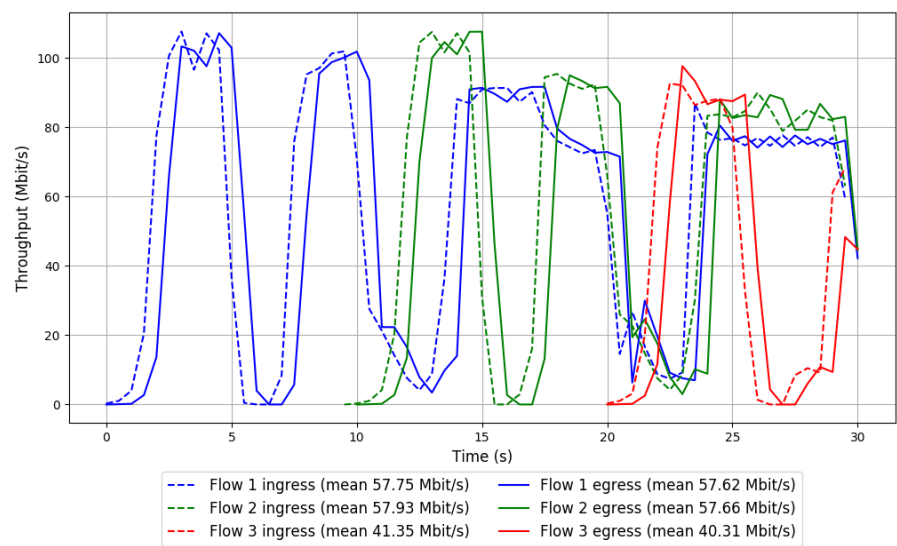
-- Flow 3:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 108.629 ms

Loss rate: 4.70%

Run 2: Report of QUIC Cubic — Data Link

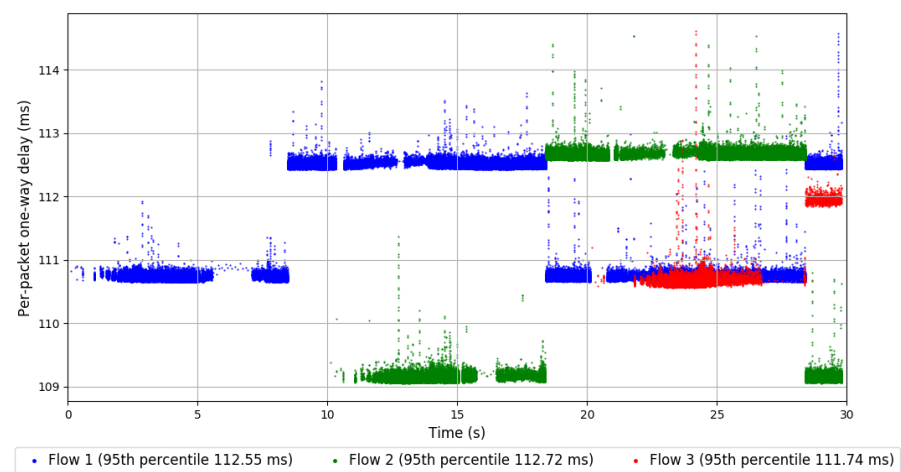
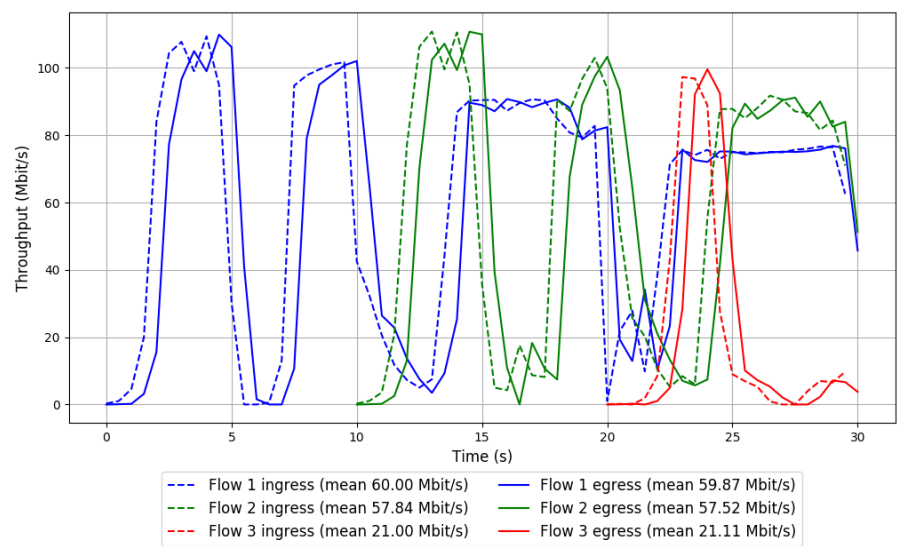


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 00:42:55
End at: 2018-06-19 00:43:25
Local clock offset: 0.369 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-06-19 05:20:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.84 Mbit/s
95th percentile per-packet one-way delay: 112.684 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 112.549 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 112.722 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 111.742 ms
Loss rate: 1.79%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 01:07:06

End at: 2018-06-19 01:07:36

Local clock offset: -0.833 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-19 05:20:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.36 Mbit/s

95th percentile per-packet one-way delay: 111.380 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 108.521 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 53.44 Mbit/s

95th percentile per-packet one-way delay: 111.504 ms

Loss rate: 1.75%

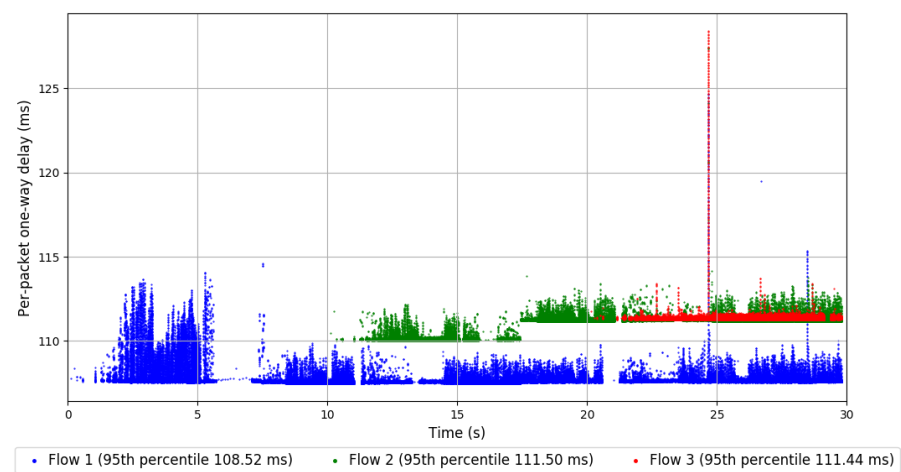
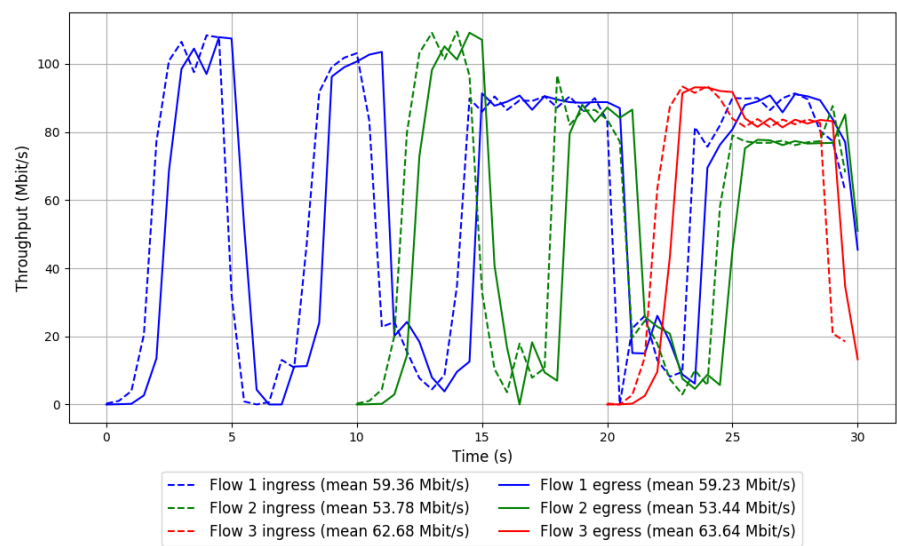
-- Flow 3:

Average throughput: 63.64 Mbit/s

95th percentile per-packet one-way delay: 111.442 ms

Loss rate: 0.77%

Run 4: Report of QUIC Cubic — Data Link

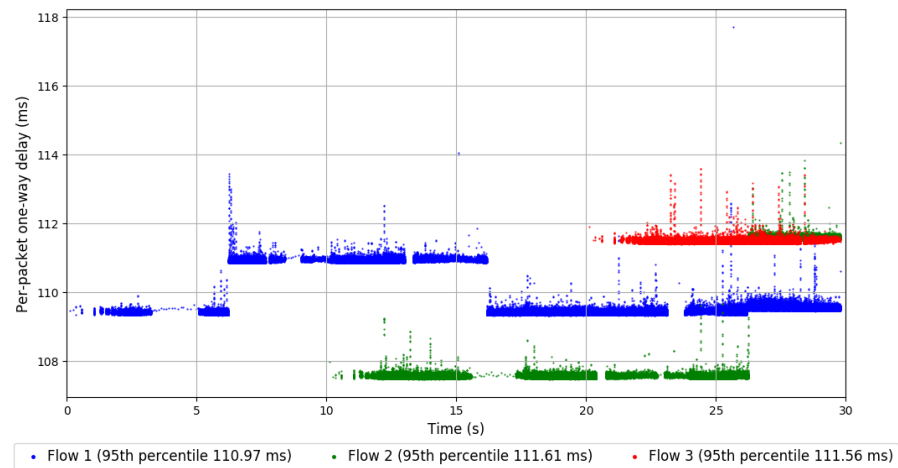
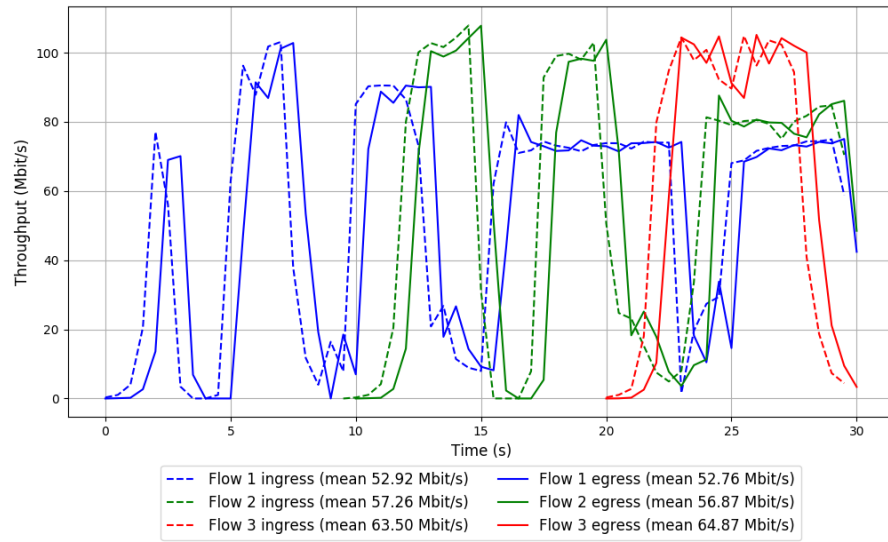


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 01:31:27
End at: 2018-06-19 01:31:57
Local clock offset: -0.538 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-19 05:20:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 111.57 Mbit/s
95th percentile per-packet one-way delay: 111.577 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 110.971 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 56.87 Mbit/s
95th percentile per-packet one-way delay: 111.614 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 64.87 Mbit/s
95th percentile per-packet one-way delay: 111.562 ms
Loss rate: 0.19%

Run 5: Report of QUIC Cubic — Data Link

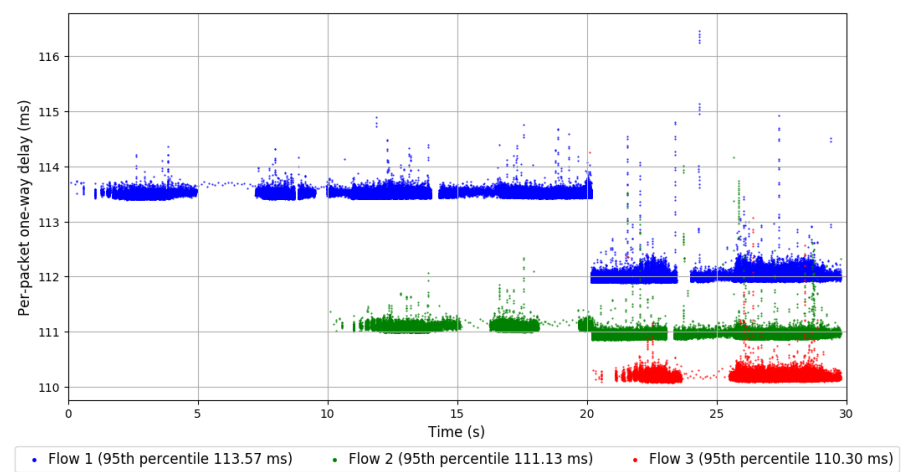
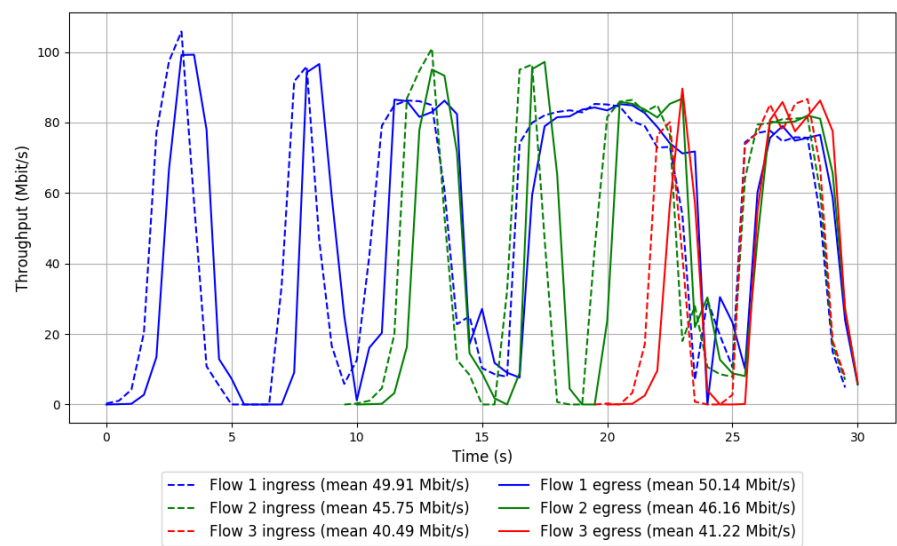


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 01:55:23
End at: 2018-06-19 01:55:53
Local clock offset: 1.832 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-19 05:20:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 113.543 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 50.14 Mbit/s
95th percentile per-packet one-way delay: 113.568 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 46.16 Mbit/s
95th percentile per-packet one-way delay: 111.133 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 110.296 ms
Loss rate: 0.50%

Run 6: Report of QUIC Cubic — Data Link

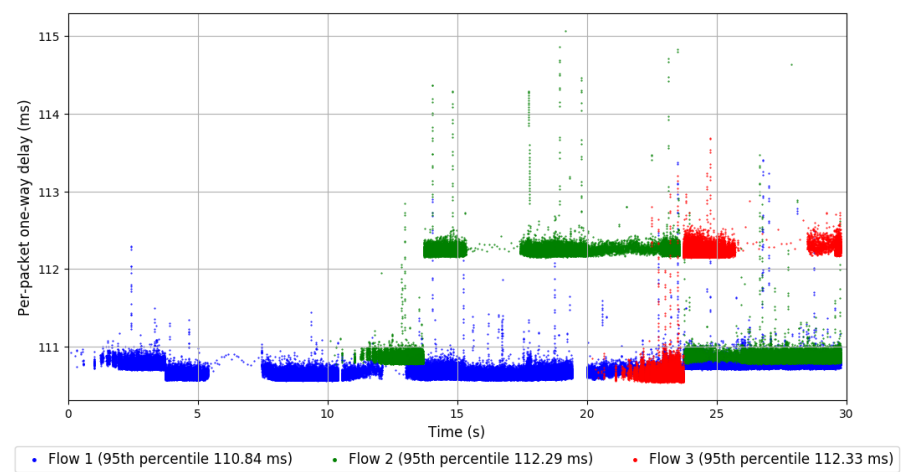
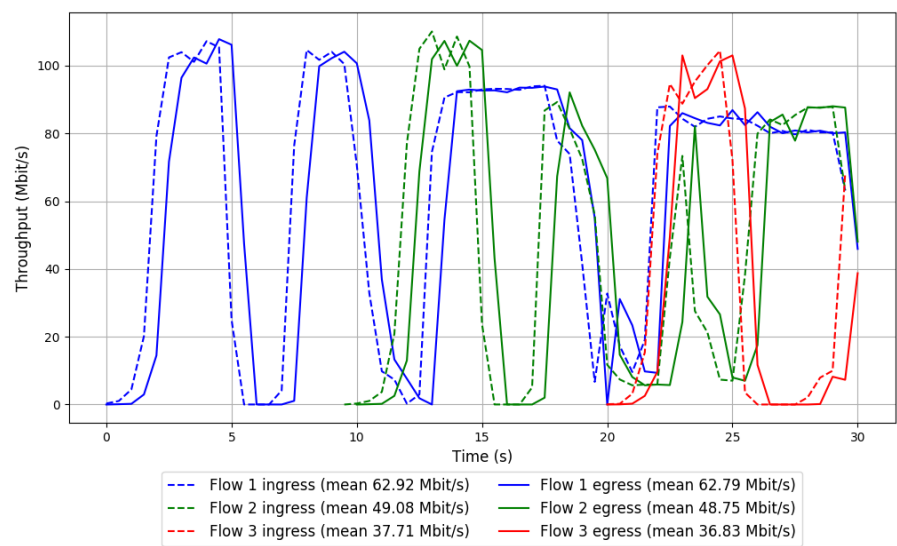


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 02:19:30
End at: 2018-06-19 02:20:00
Local clock offset: -0.038 ms
Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.02 Mbit/s
95th percentile per-packet one-way delay: 112.265 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 110.843 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 48.75 Mbit/s
95th percentile per-packet one-way delay: 112.291 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 112.335 ms
Loss rate: 4.55%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 02:43:21

End at: 2018-06-19 02:43:51

Local clock offset: -0.242 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-06-19 05:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 112.31 Mbit/s

95th percentile per-packet one-way delay: 112.769 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 62.22 Mbit/s

95th percentile per-packet one-way delay: 113.982 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 58.79 Mbit/s

95th percentile per-packet one-way delay: 111.544 ms

Loss rate: 1.75%

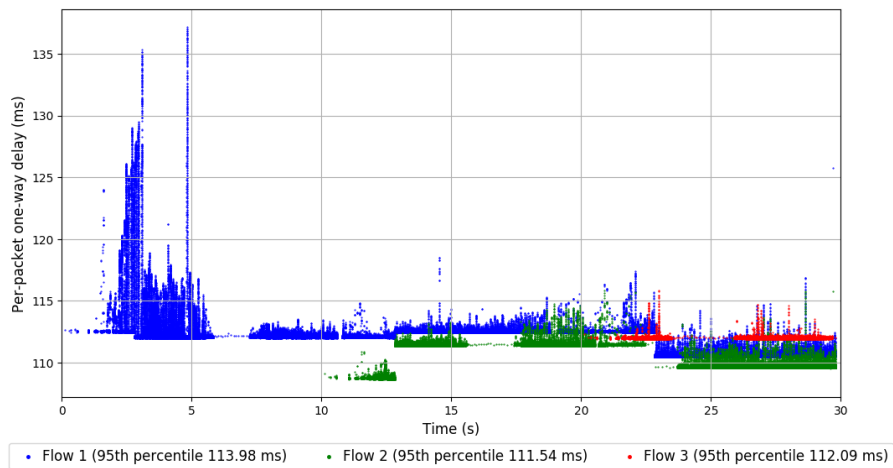
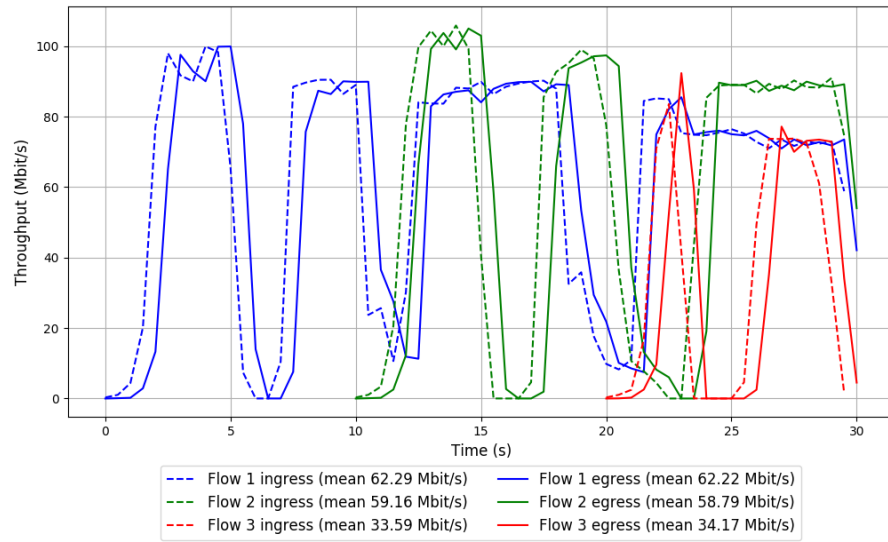
-- Flow 3:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 112.091 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 03:07:01

End at: 2018-06-19 03:07:31

Local clock offset: 1.395 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2018-06-19 05:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.71 Mbit/s

95th percentile per-packet one-way delay: 113.372 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 113.401 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 52.67 Mbit/s

95th percentile per-packet one-way delay: 113.312 ms

Loss rate: 1.89%

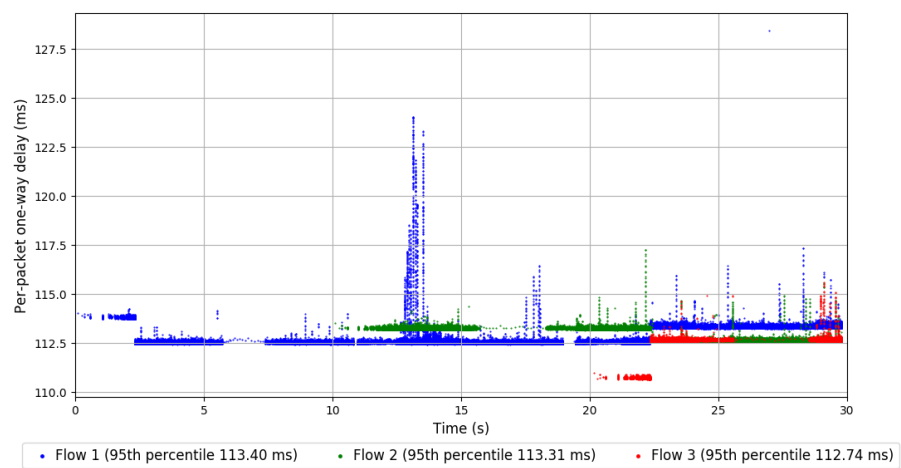
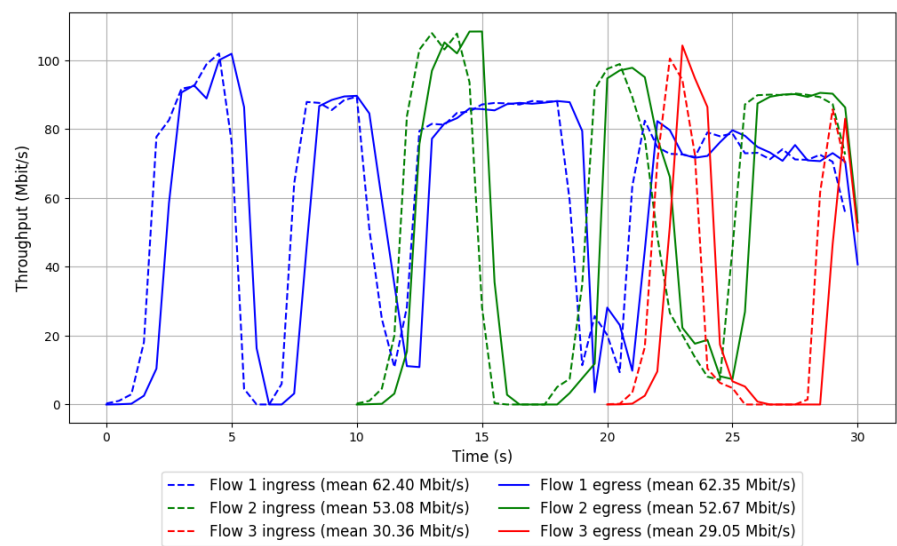
-- Flow 3:

Average throughput: 29.05 Mbit/s

95th percentile per-packet one-way delay: 112.742 ms

Loss rate: 6.45%

Run 9: Report of QUIC Cubic — Data Link

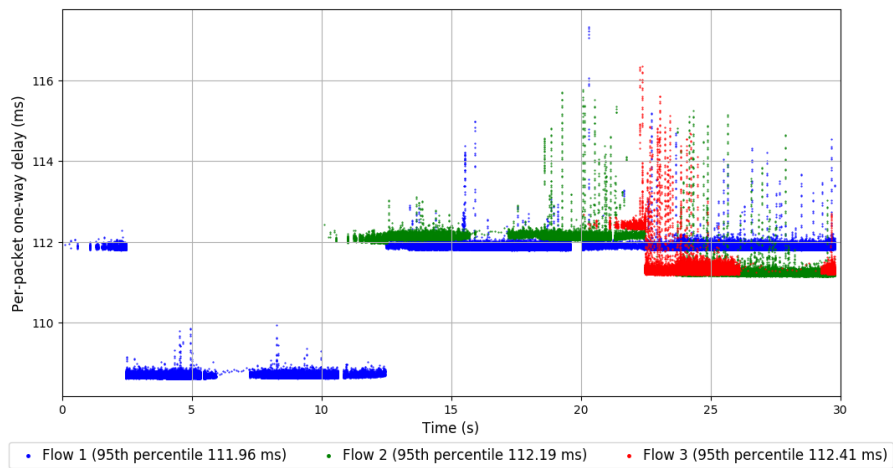
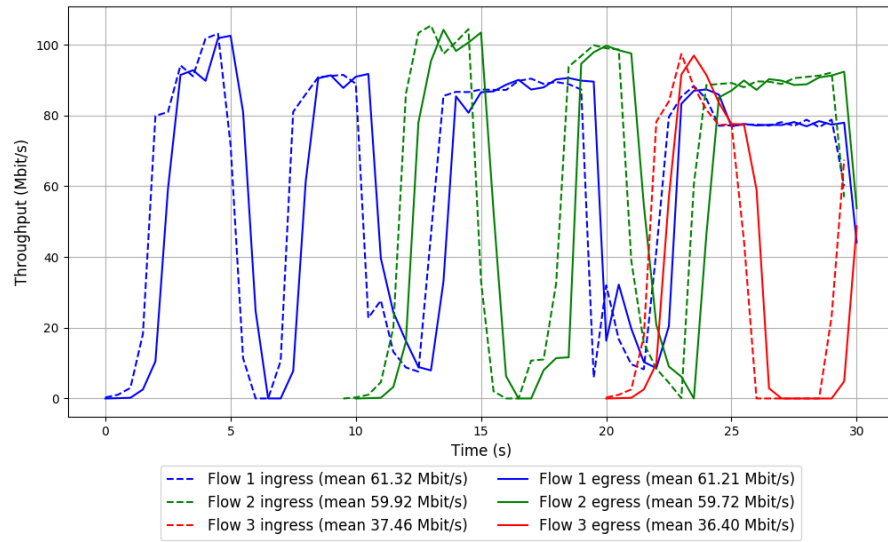


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 03:31:21
End at: 2018-06-19 03:31:51
Local clock offset: -0.347 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 112.66 Mbit/s
95th percentile per-packet one-way delay: 112.157 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 111.961 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 59.72 Mbit/s
95th percentile per-packet one-way delay: 112.188 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 112.412 ms
Loss rate: 5.01%

Run 10: Report of QUIC Cubic — Data Link

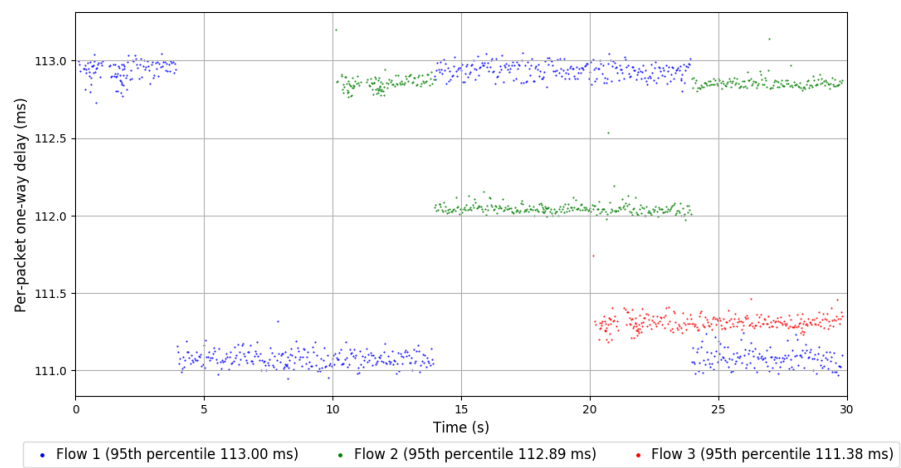
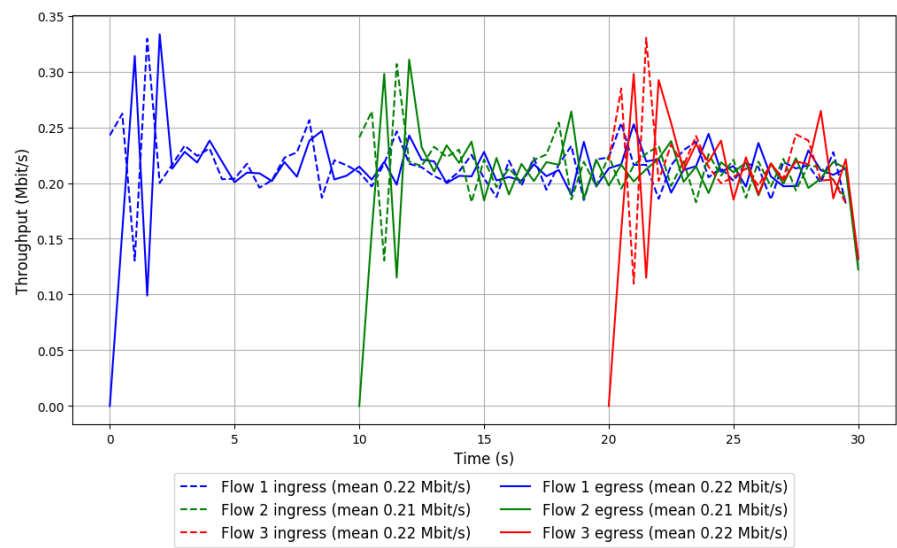


```
Run 1: Statistics of SCReAM

Start at: 2018-06-18 23:37:39
End at: 2018-06-18 23:38:09
Local clock offset: 0.043 ms
Remote clock offset: -0.474 ms

# Below is generated by plot.py at 2018-06-19 05:20:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.978 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.997 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.895 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.382 ms
Loss rate: 1.86%
```

Run 1: Report of SReAM — Data Link

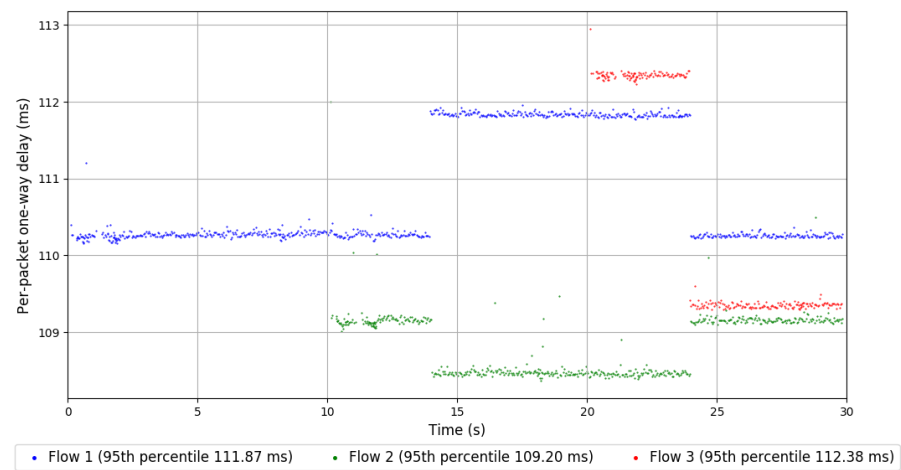
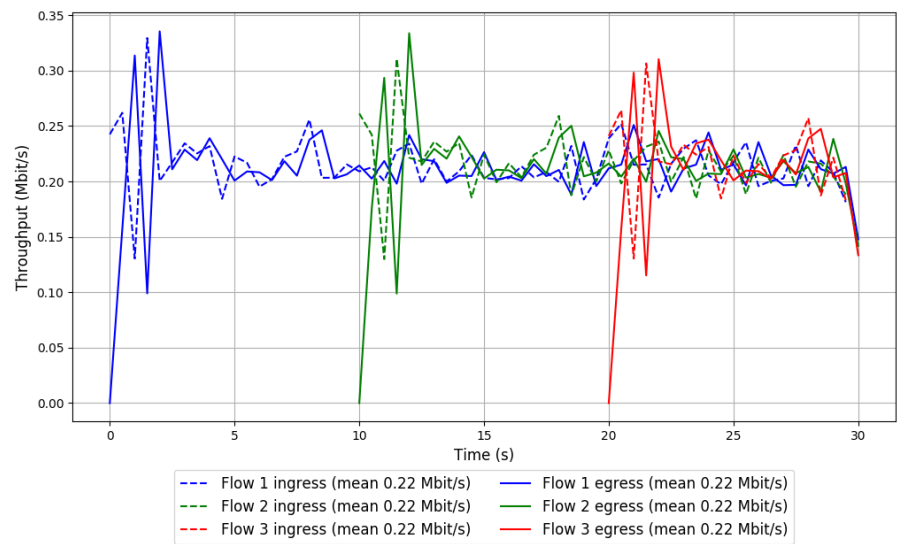


Run 2: Statistics of SReAM

Start at: 2018-06-19 00:01:49
End at: 2018-06-19 00:02:19
Local clock offset: -0.148 ms
Remote clock offset: 0.373 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.330 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.867 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.205 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.381 ms
Loss rate: 2.22%

Run 2: Report of SReAM — Data Link

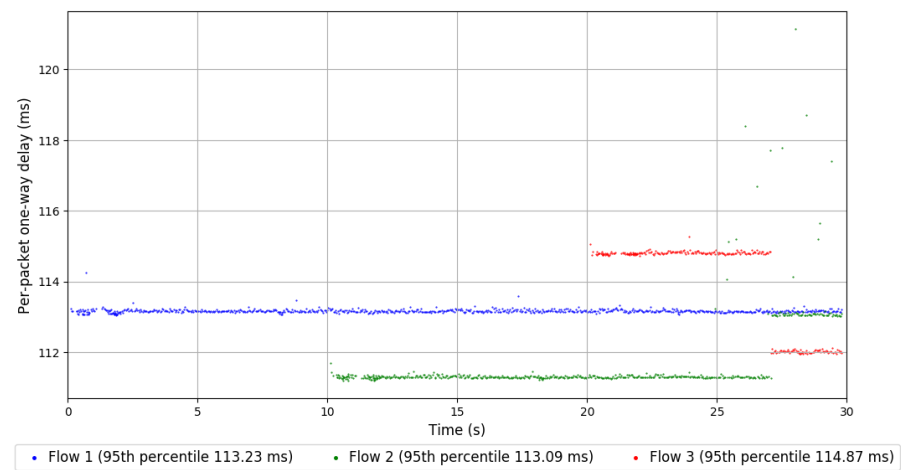
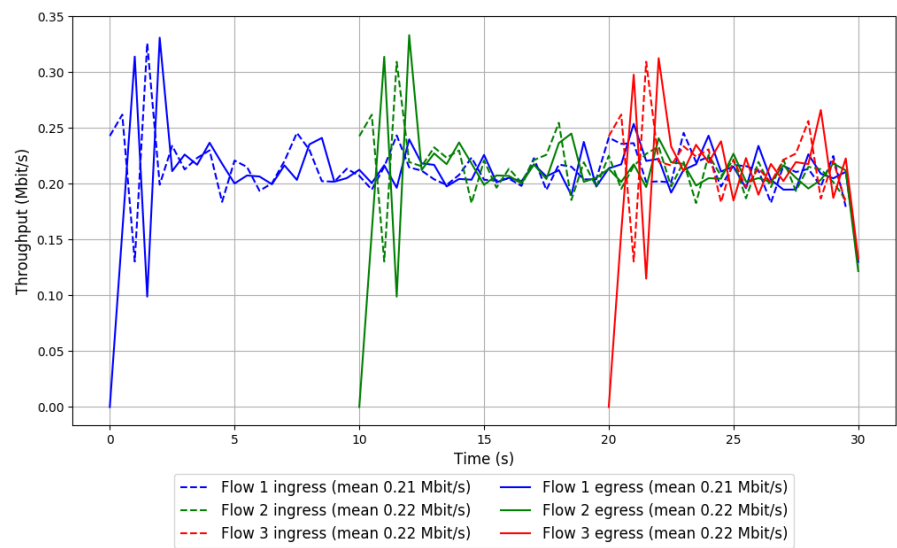


Run 3: Statistics of SReAM

Start at: 2018-06-19 00:26:16
End at: 2018-06-19 00:26:46
Local clock offset: 0.208 ms
Remote clock offset: -0.198 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.816 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.233 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.089 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.873 ms
Loss rate: 2.22%

Run 3: Report of SReAM — Data Link

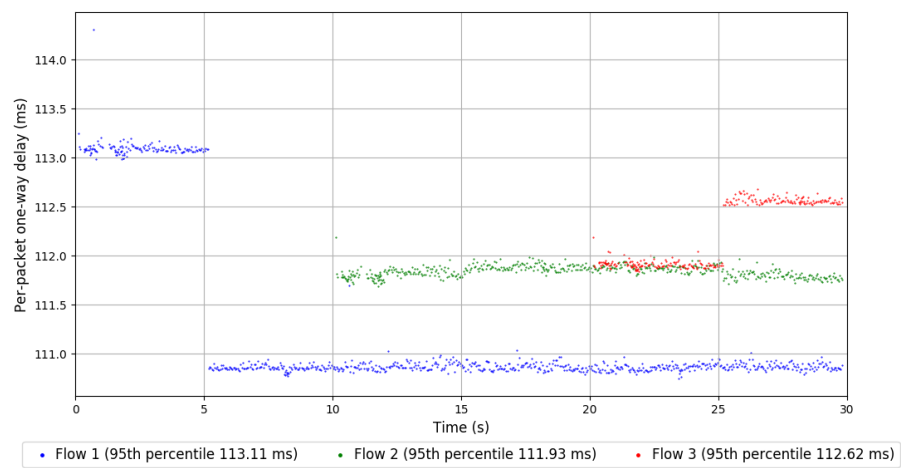
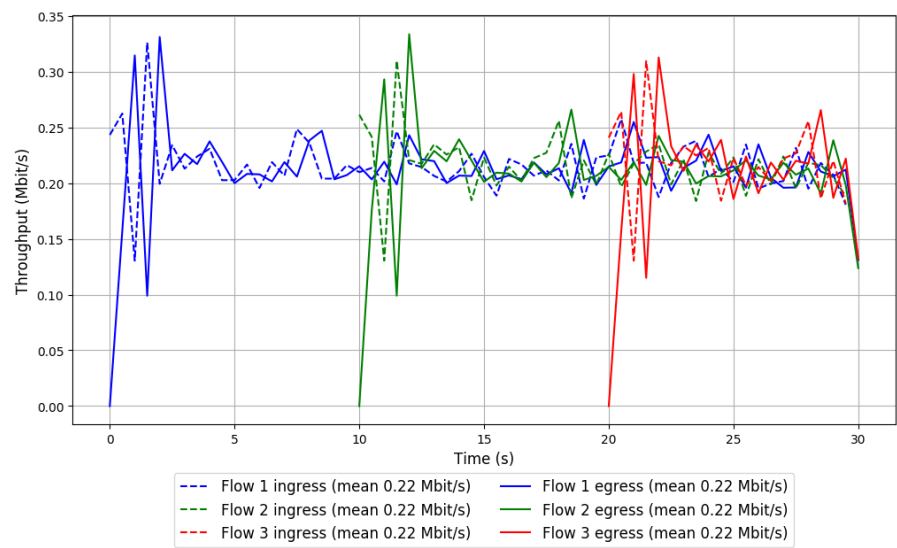


Run 4: Statistics of SReAM

Start at: 2018-06-19 00:50:28
End at: 2018-06-19 00:50:58
Local clock offset: 0.304 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 113.083 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.106 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.927 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.618 ms
Loss rate: 2.21%

Run 4: Report of SCRaM — Data Link

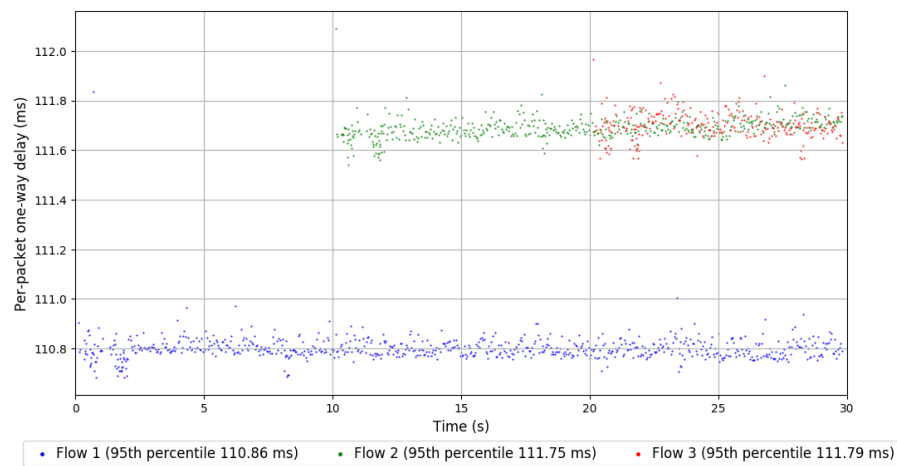
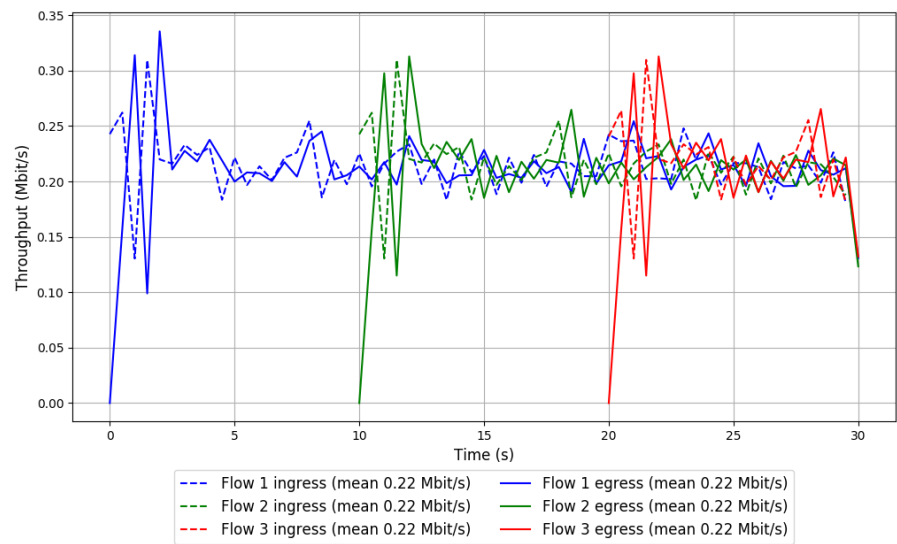


Run 5: Statistics of SReAM

Start at: 2018-06-19 01:14:38
End at: 2018-06-19 01:15:08
Local clock offset: -0.598 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.749 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.861 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.754 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.790 ms
Loss rate: 2.21%

Run 5: Report of SCSReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-19 01:39:00

End at: 2018-06-19 01:39:30

Local clock offset: 0.57 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-19 05:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.447 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.429 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.530 ms

Loss rate: 1.24%

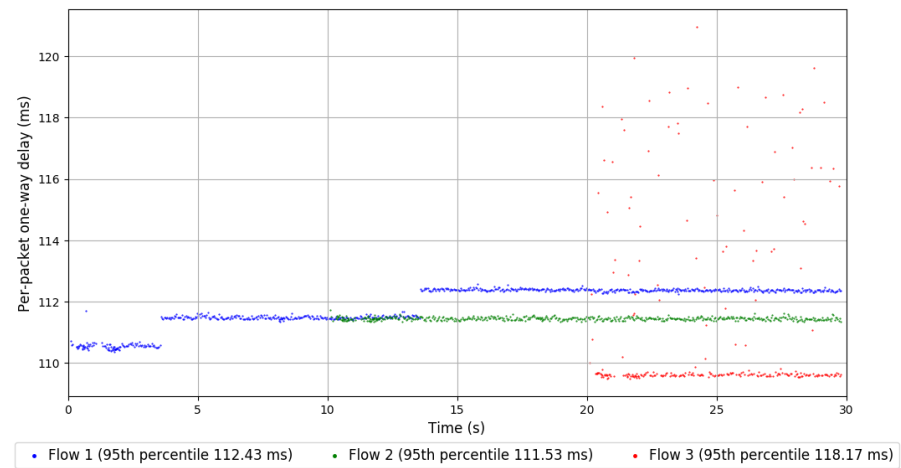
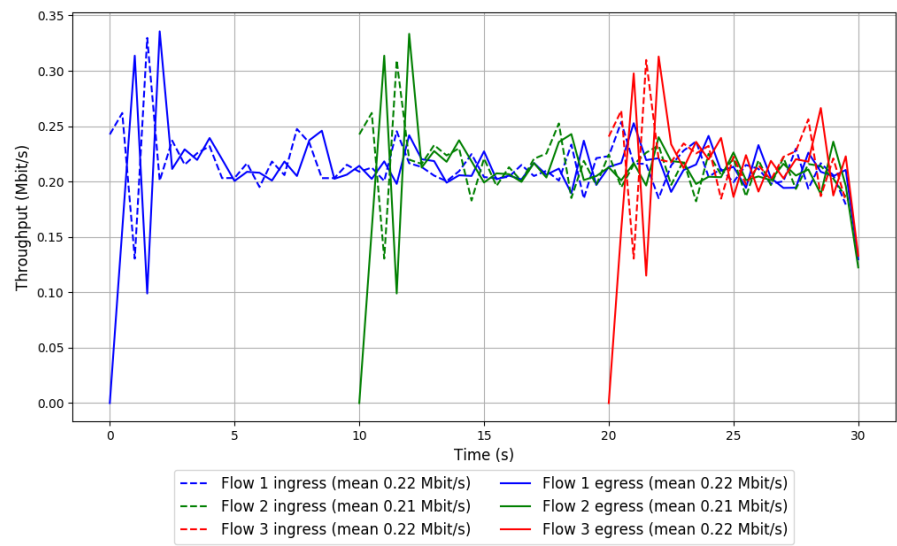
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 118.171 ms

Loss rate: 2.22%

Run 6: Report of SReAM — Data Link

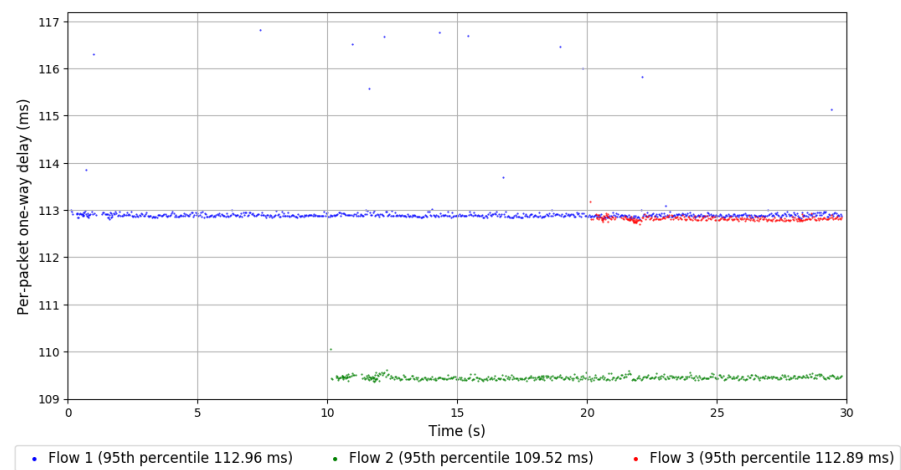
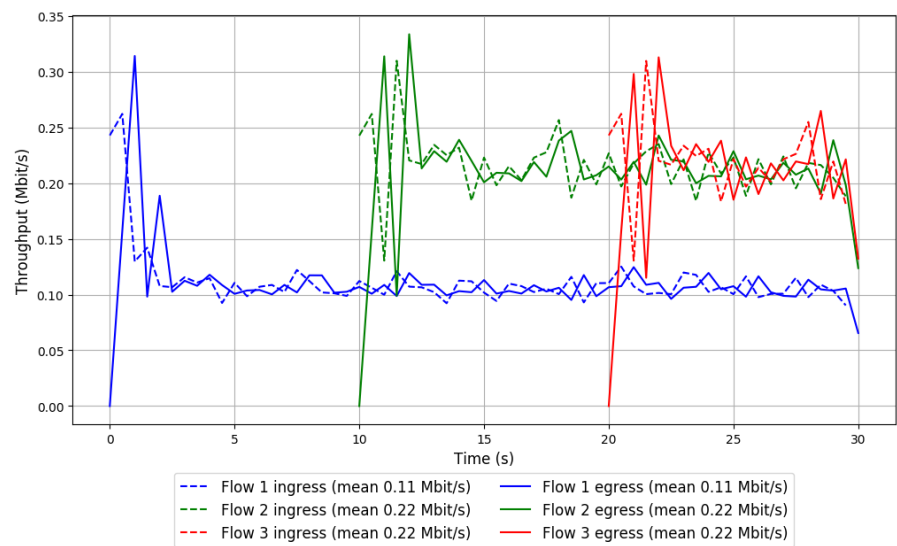


Run 7: Statistics of SReAM

Start at: 2018-06-19 02:02:57
End at: 2018-06-19 02:03:27
Local clock offset: 0.232 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 112.945 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 112.964 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.520 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.888 ms
Loss rate: 2.21%

Run 7: Report of SReAM — Data Link

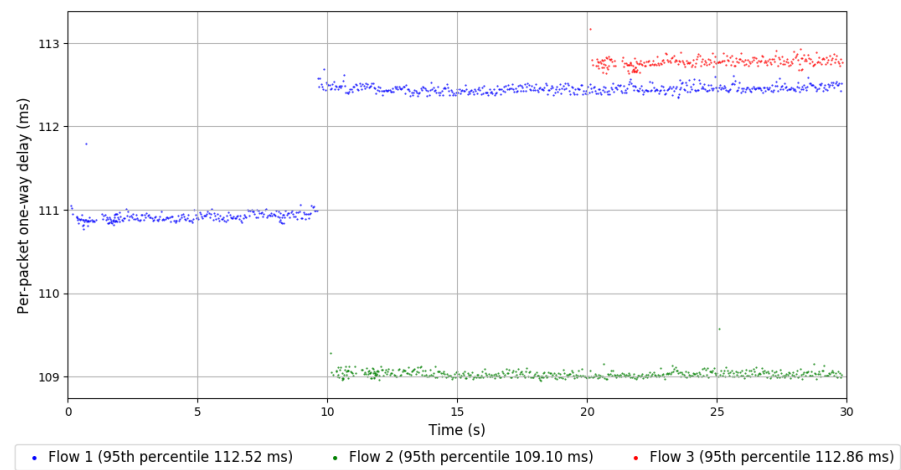
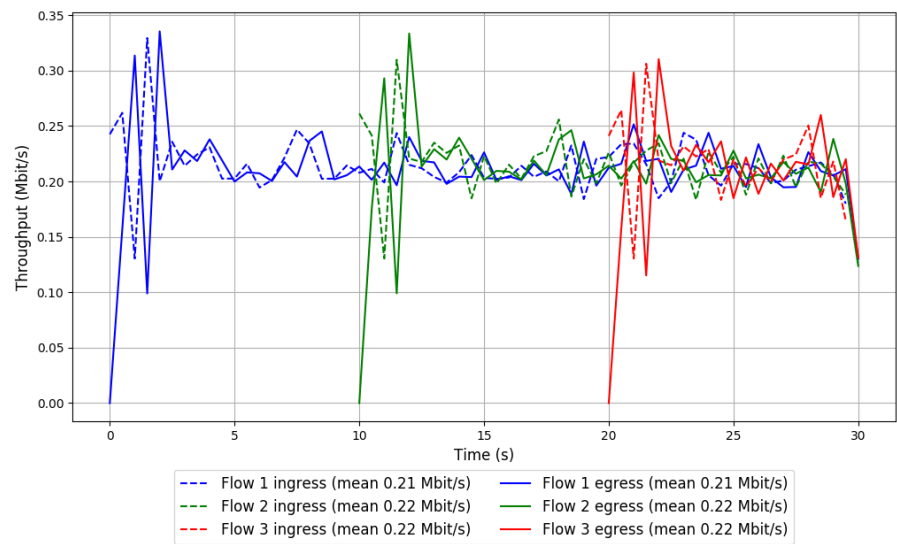


Run 8: Statistics of SReAM

Start at: 2018-06-19 02:27:04
End at: 2018-06-19 02:27:34
Local clock offset: -0.372 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.799 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.516 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.100 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.864 ms
Loss rate: 1.86%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-19 02:50:52

End at: 2018-06-19 02:51:22

Local clock offset: -0.041 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-19 05:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 110.982 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.001 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.716 ms

Loss rate: 1.24%

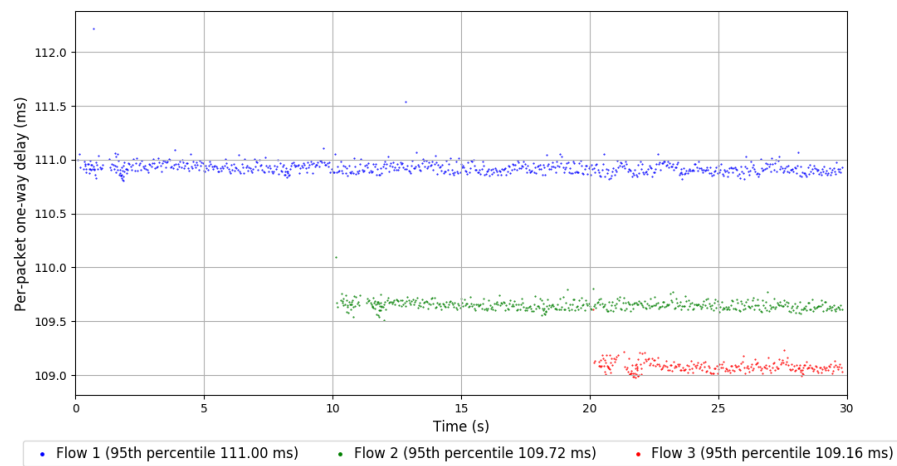
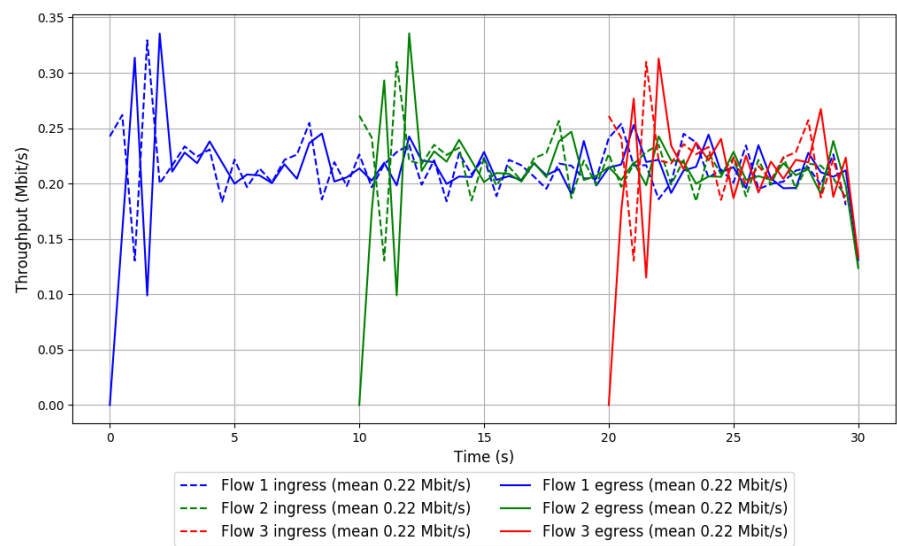
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.164 ms

Loss rate: 2.22%

Run 9: Report of SReAM — Data Link

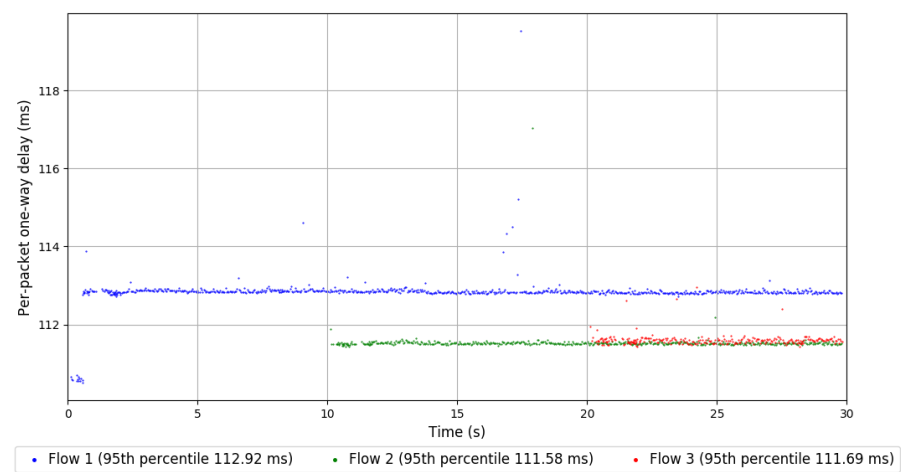
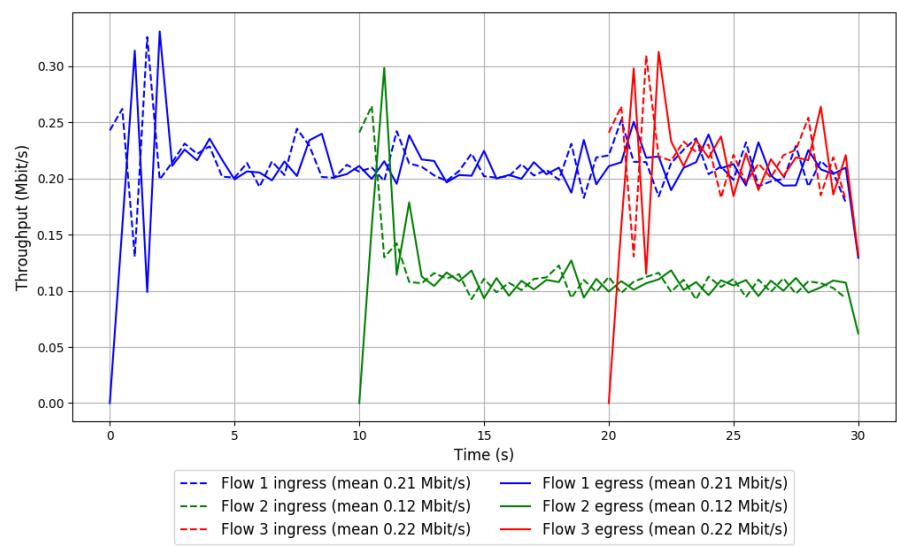


Run 10: Statistics of SReAM

Start at: 2018-06-19 03:14:43
End at: 2018-06-19 03:15:13
Local clock offset: -0.15 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 112.896 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.919 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 111.576 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.688 ms
Loss rate: 2.21%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-18 23:45:10

End at: 2018-06-18 23:45:40

Local clock offset: -1.289 ms

Remote clock offset: -0.39 ms

Below is generated by plot.py at 2018-06-19 05:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 110.628 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 108.901 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.659 ms

Loss rate: 0.84%

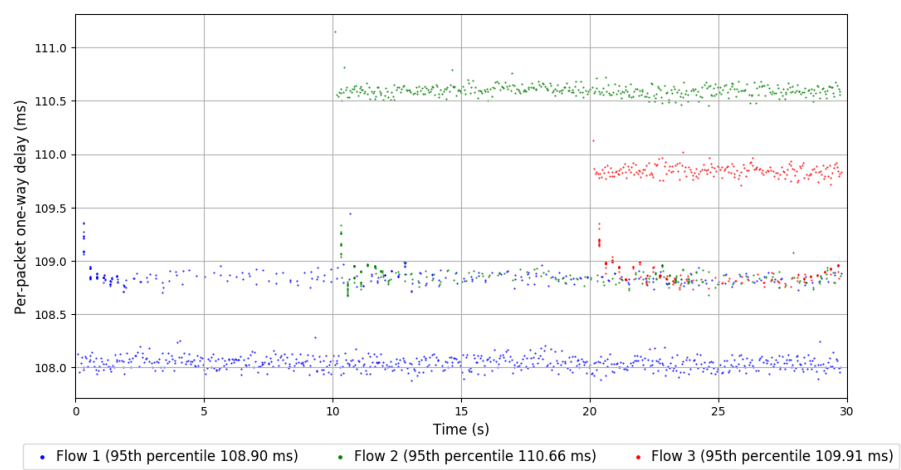
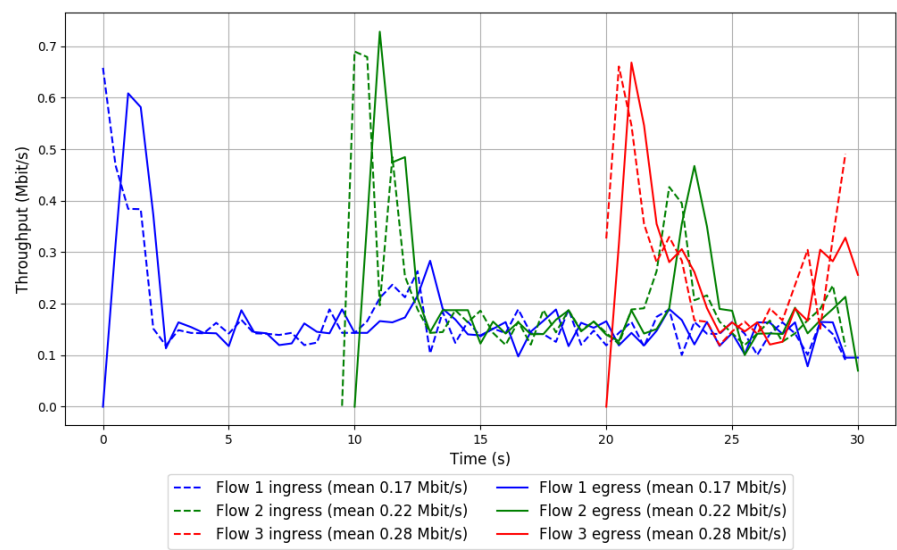
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 109.907 ms

Loss rate: 4.28%

Run 1: Report of Sprout — Data Link

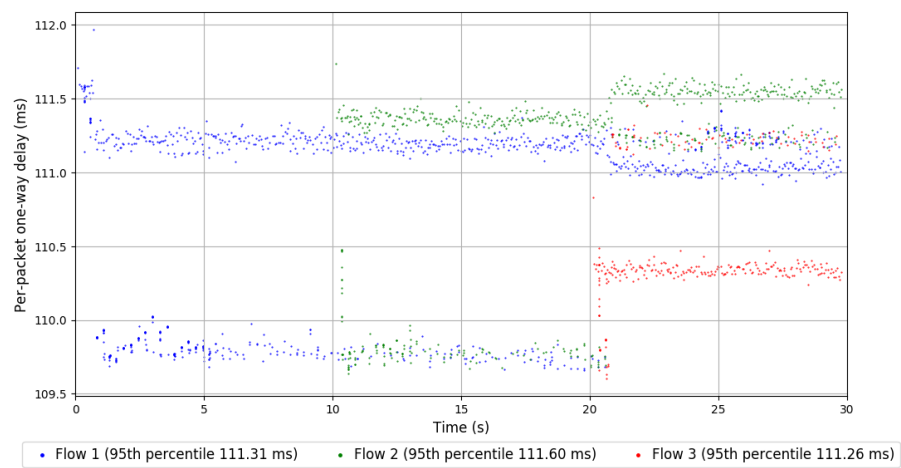
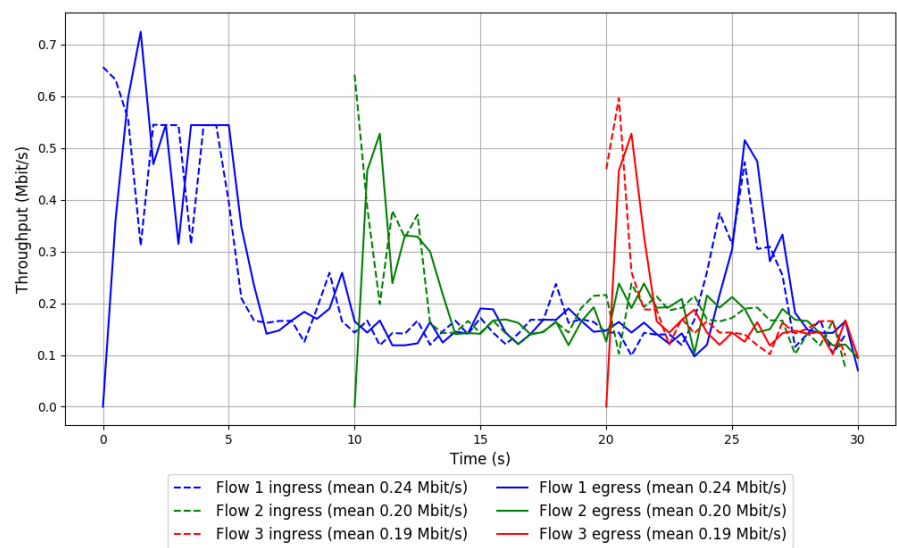


Run 2: Statistics of Sprout

Start at: 2018-06-19 00:09:33
End at: 2018-06-19 00:10:03
Local clock offset: -1.254 ms
Remote clock offset: 0.015 ms

```
# Below is generated by plot.py at 2018-06-19 05:20:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 111.552 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 111.310 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 111.596 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.257 ms
Loss rate: 2.41%
```

Run 2: Report of Sprout — Data Link

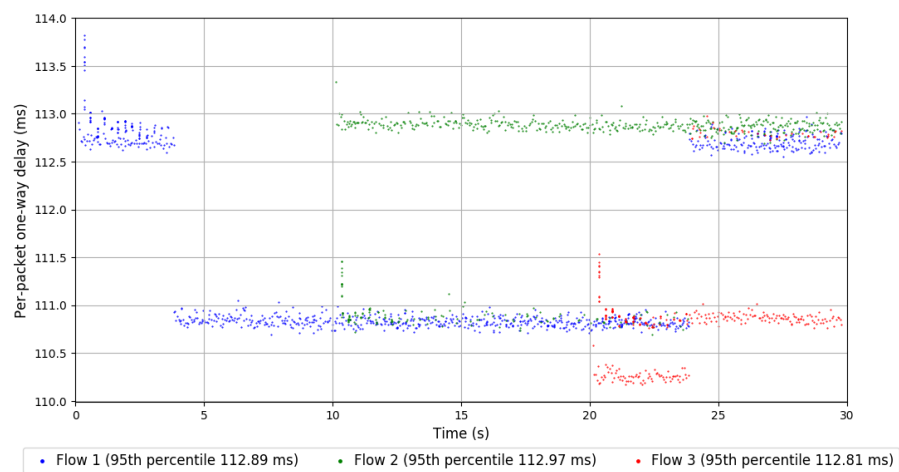
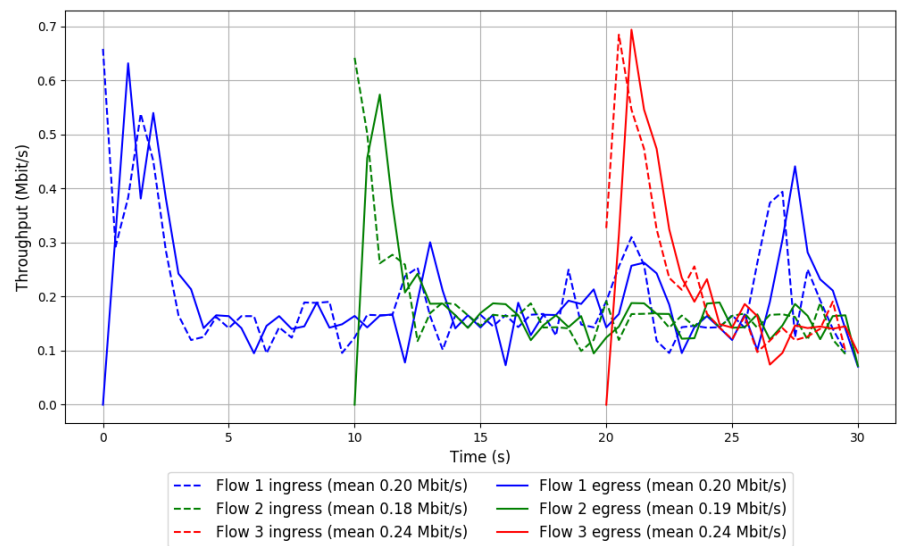


Run 3: Statistics of Sprout

Start at: 2018-06-19 00:33:49
End at: 2018-06-19 00:34:19
Local clock offset: 0.308 ms
Remote clock offset: -0.2 ms

```
# Below is generated by plot.py at 2018-06-19 05:20:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 112.931 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 112.889 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.967 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 112.806 ms
Loss rate: 1.11%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-19 00:57:56

End at: 2018-06-19 00:58:26

Local clock offset: 0.43 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-19 05:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.673 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 112.570 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 112.815 ms

Loss rate: 1.44%

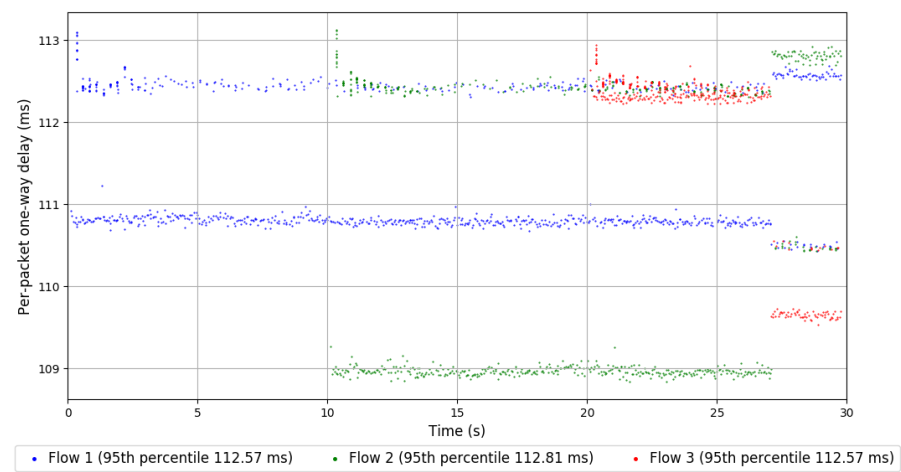
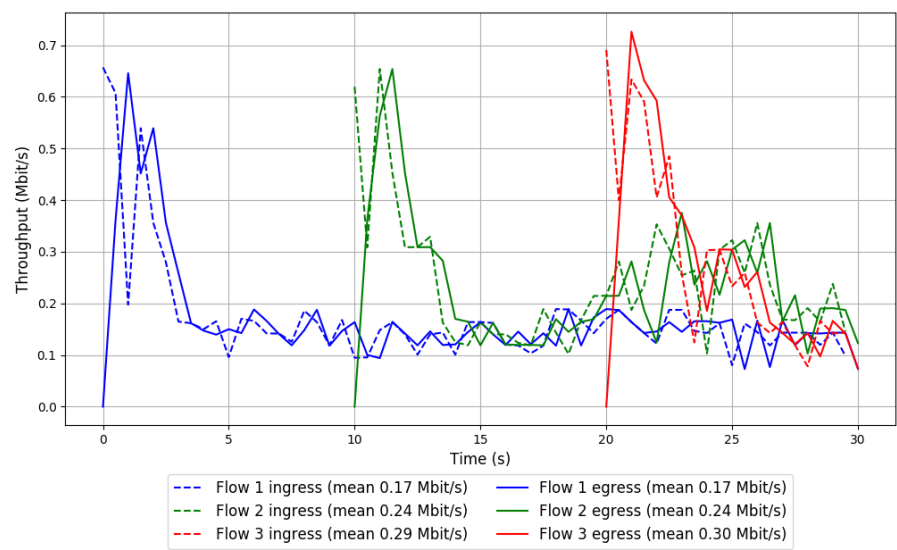
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 112.571 ms

Loss rate: 1.25%

Run 4: Report of Sprout — Data Link

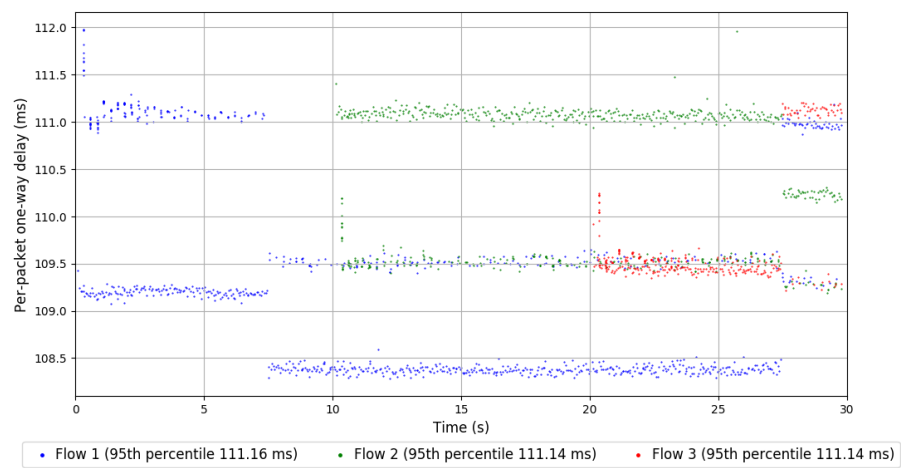
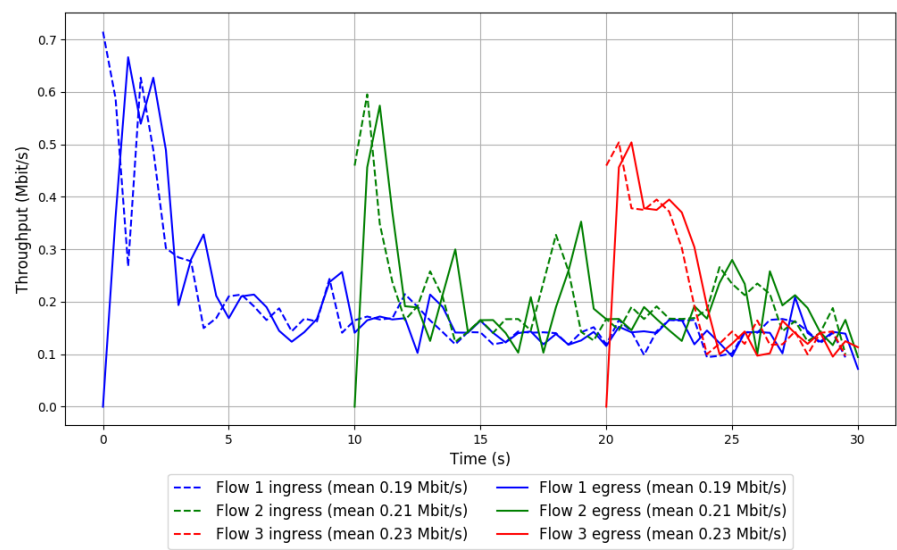


Run 5: Statistics of Sprout

Start at: 2018-06-19 01:22:26
End at: 2018-06-19 01:22:56
Local clock offset: -0.695 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 111.144 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.158 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.137 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 111.137 ms
Loss rate: 1.13%

Run 5: Report of Sprout — Data Link

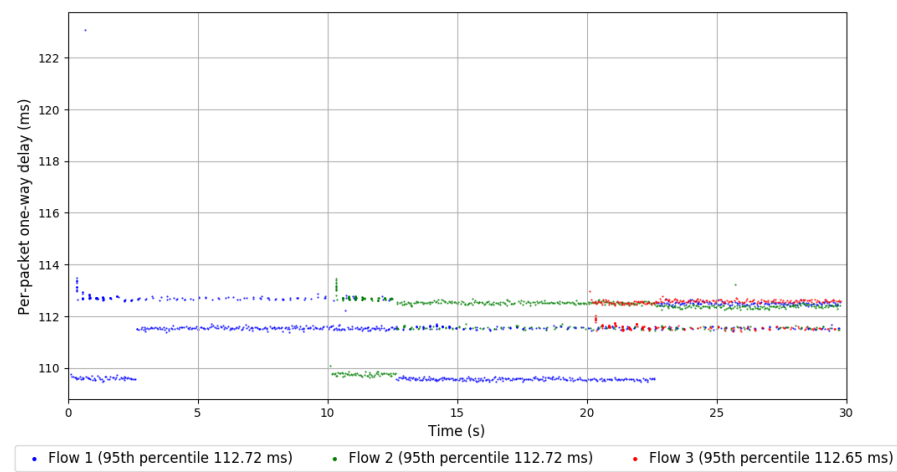
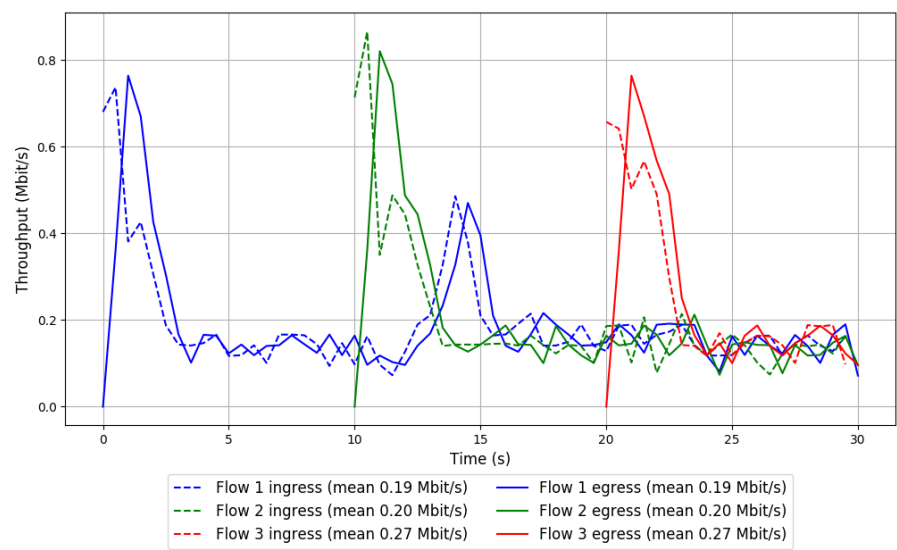


Run 6: Statistics of Sprout

Start at: 2018-06-19 01:46:31
End at: 2018-06-19 01:47:01
Local clock offset: 0.585 ms
Remote clock offset: 0.006 ms

```
# Below is generated by plot.py at 2018-06-19 05:20:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 112.714 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.722 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 112.715 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 112.646 ms
Loss rate: 1.75%
```

Run 6: Report of Sprout — Data Link

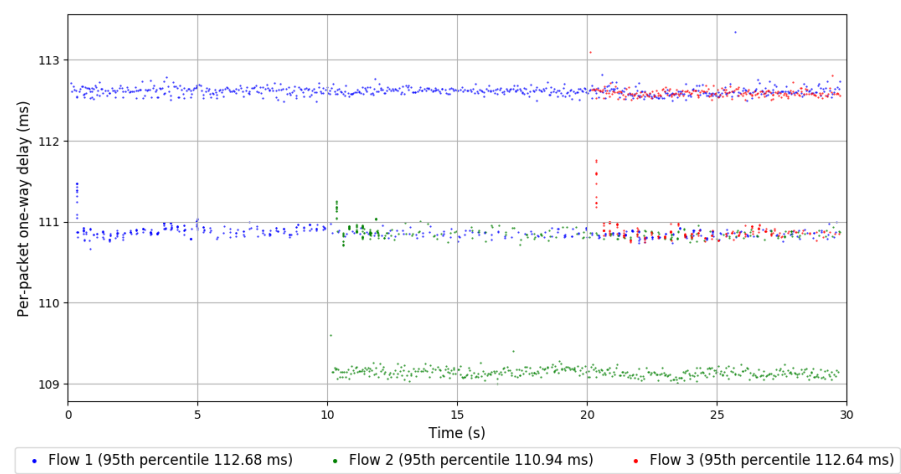
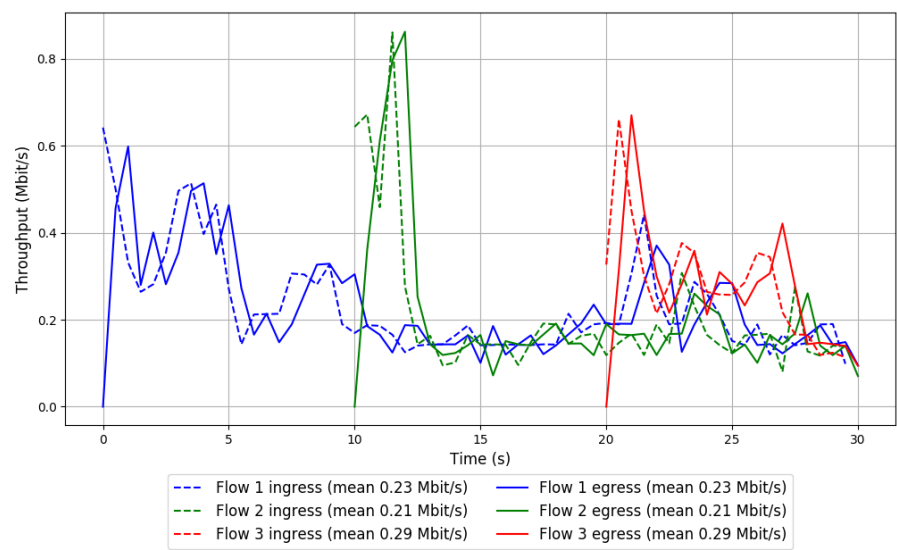


Run 7: Statistics of Sprout

Start at: 2018-06-19 02:10:20
End at: 2018-06-19 02:10:50
Local clock offset: 0.125 ms
Remote clock offset: 0.03 ms

```
# Below is generated by plot.py at 2018-06-19 05:20:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 112.657 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 112.677 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 110.941 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 112.639 ms
Loss rate: 0.82%
```

Run 7: Report of Sprout — Data Link

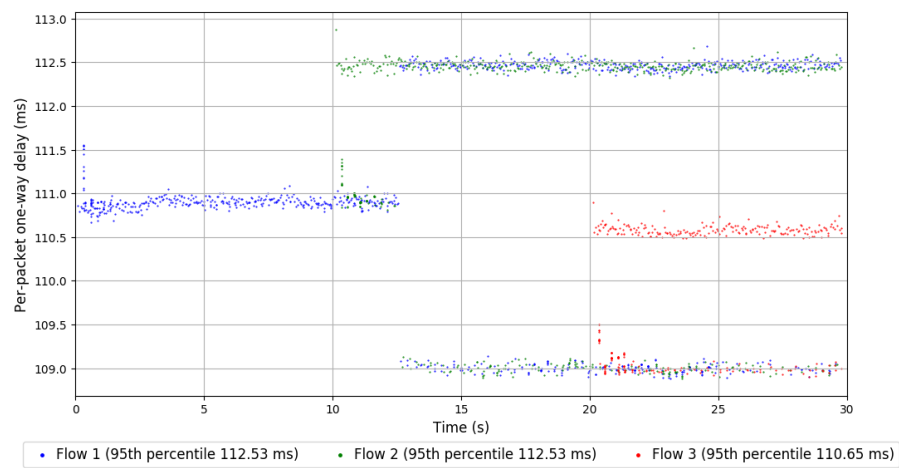
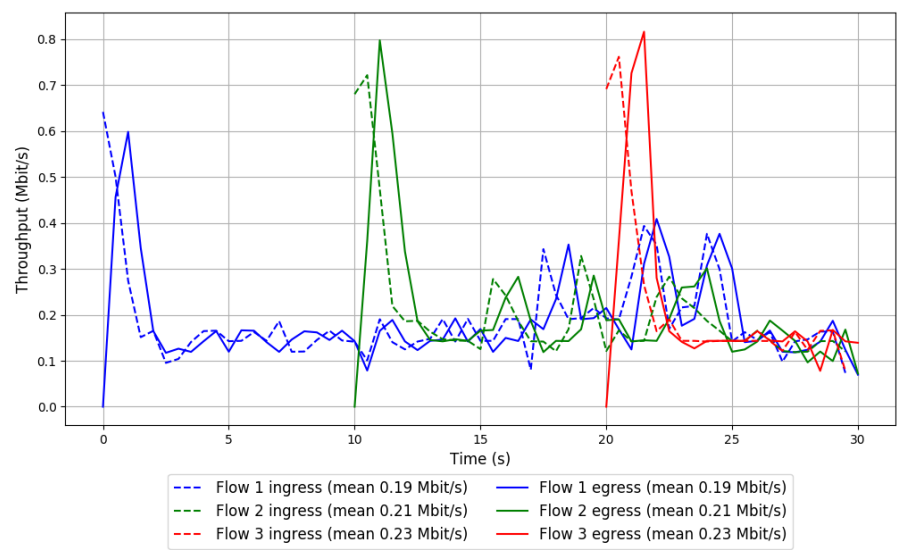


Run 8: Statistics of Sprout

Start at: 2018-06-19 02:34:21
End at: 2018-06-19 02:34:51
Local clock offset: -0.16 ms
Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 112.519 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.525 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.528 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 110.646 ms
Loss rate: 0.67%

Run 8: Report of Sprout — Data Link

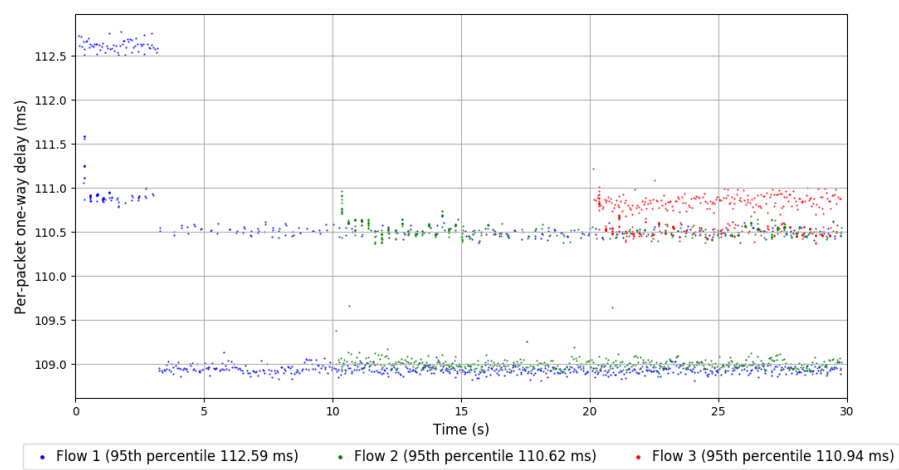
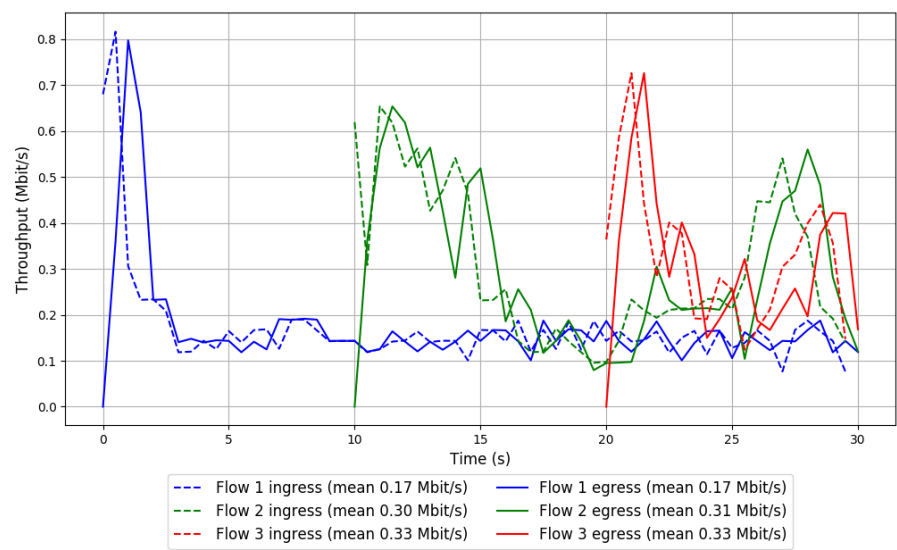


Run 9: Statistics of Sprout

Start at: 2018-06-19 02:58:10
End at: 2018-06-19 02:58:40
Local clock offset: -0.151 ms
Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 110.931 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 112.588 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 110.624 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 110.935 ms
Loss rate: 2.16%

Run 9: Report of Sprout — Data Link

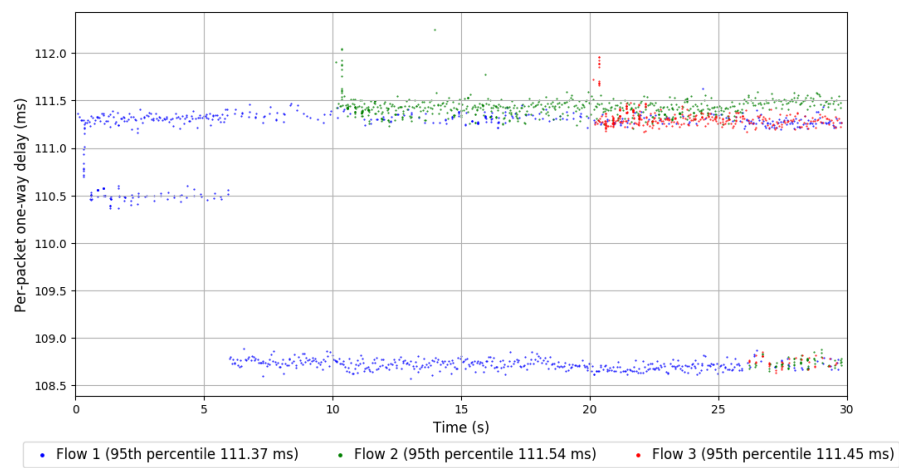
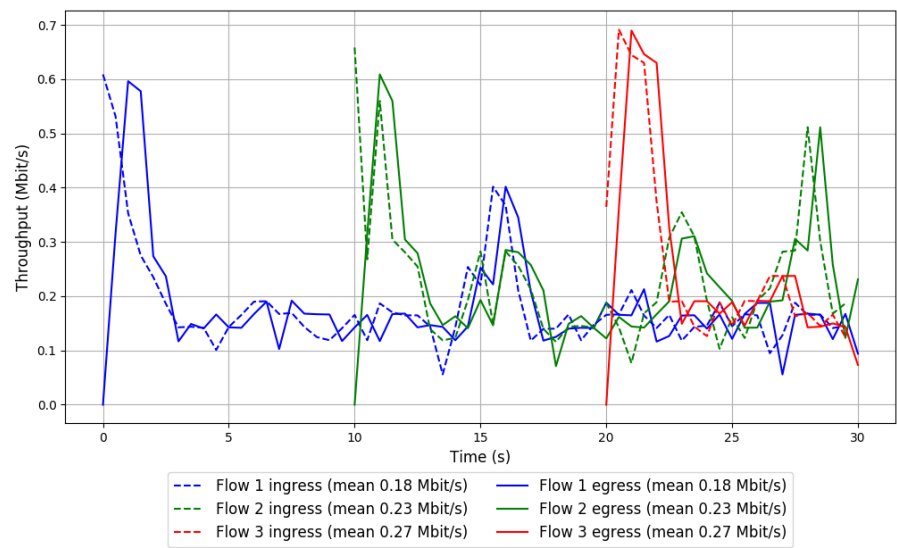


Run 10: Statistics of Sprout

Start at: 2018-06-19 03:22:17
End at: 2018-06-19 03:22:47
Local clock offset: -1.226 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-19 05:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.505 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 111.366 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 111.544 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 111.451 ms
Loss rate: 2.23%

Run 10: Report of Sprout — Data Link

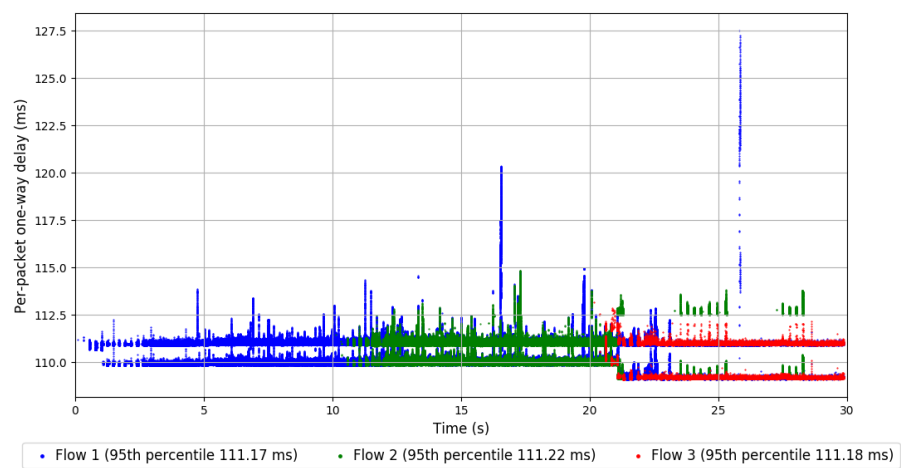
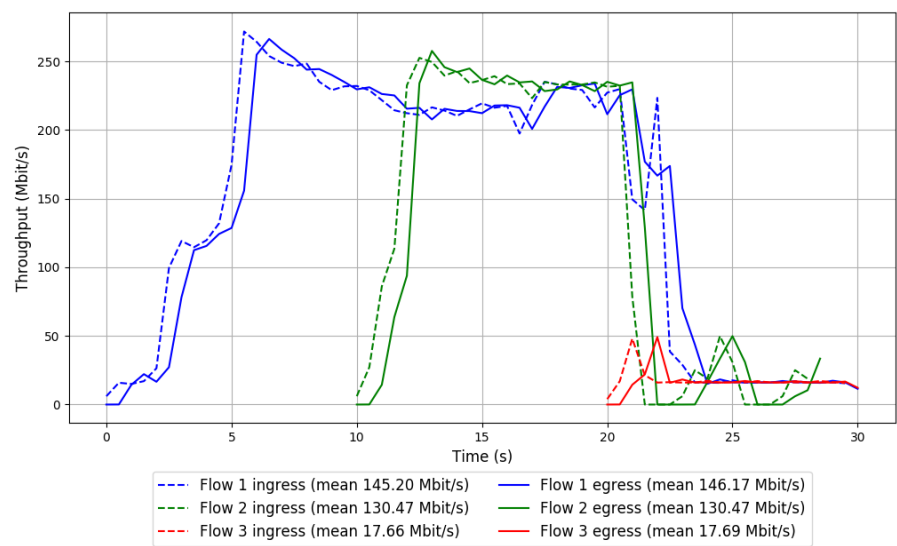


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-18 23:38:52
End at: 2018-06-18 23:39:22
Local clock offset: 0.321 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-19 05:20:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.60 Mbit/s
95th percentile per-packet one-way delay: 111.182 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 146.17 Mbit/s
95th percentile per-packet one-way delay: 111.173 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 130.47 Mbit/s
95th percentile per-packet one-way delay: 111.220 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.69 Mbit/s
95th percentile per-packet one-way delay: 111.182 ms
Loss rate: 2.11%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 00:03:02

End at: 2018-06-19 00:03:32

Local clock offset: -1.307 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-19 05:22:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.55 Mbit/s

95th percentile per-packet one-way delay: 111.120 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 151.37 Mbit/s

95th percentile per-packet one-way delay: 111.105 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 208.42 Mbit/s

95th percentile per-packet one-way delay: 111.132 ms

Loss rate: 0.87%

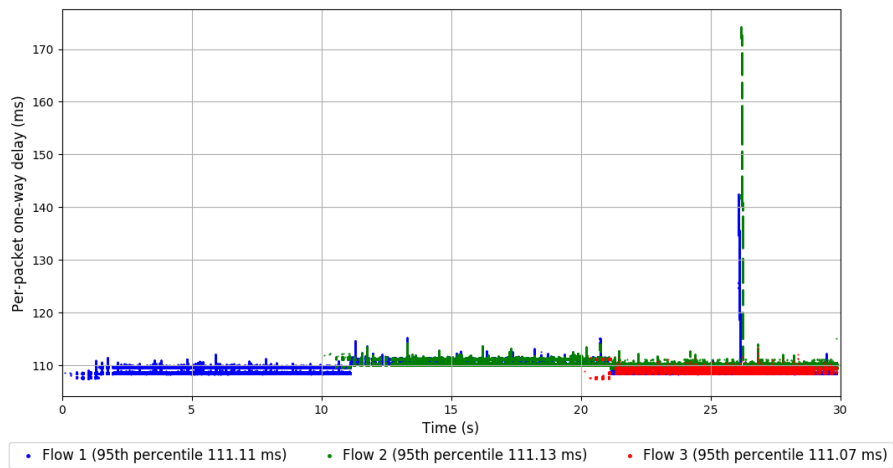
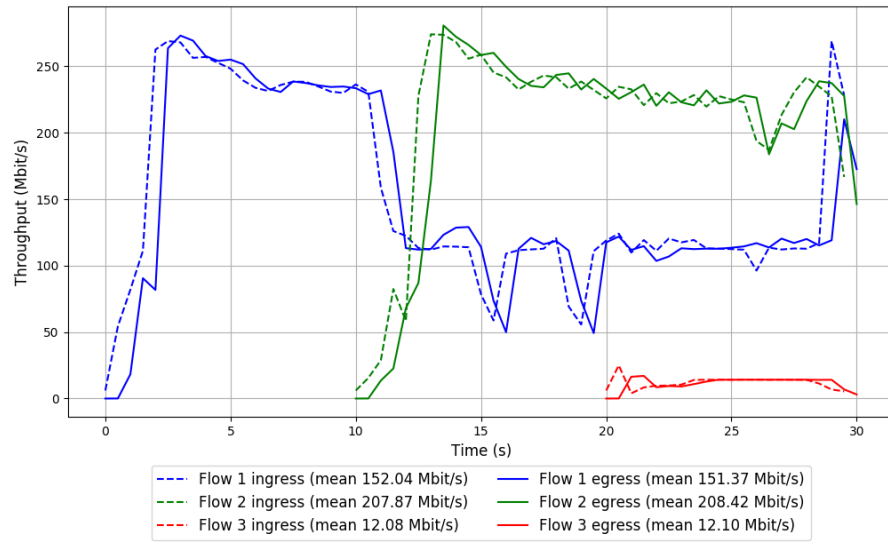
-- Flow 3:

Average throughput: 12.10 Mbit/s

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

Loss rate: 1.04%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 00:27:29

End at: 2018-06-19 00:27:59

Local clock offset: 0.52 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2018-06-19 05:22:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.97 Mbit/s

95th percentile per-packet one-way delay: 112.891 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 127.82 Mbit/s

95th percentile per-packet one-way delay: 112.822 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 113.014 ms

Loss rate: 1.23%

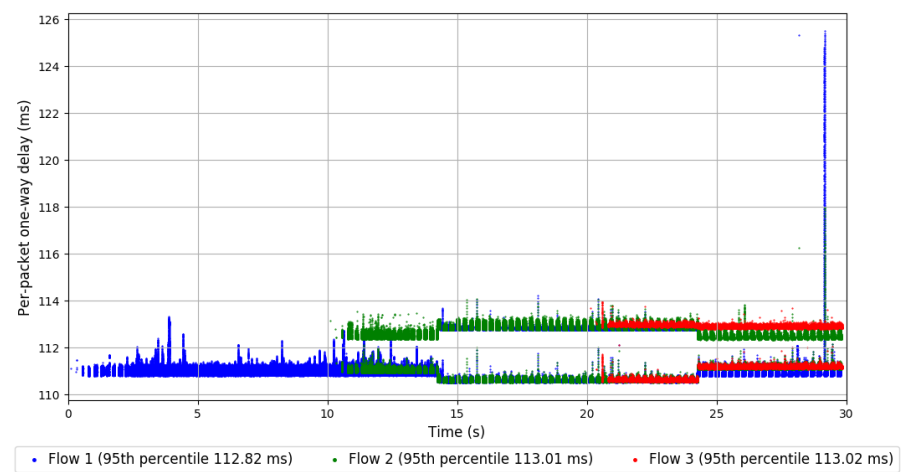
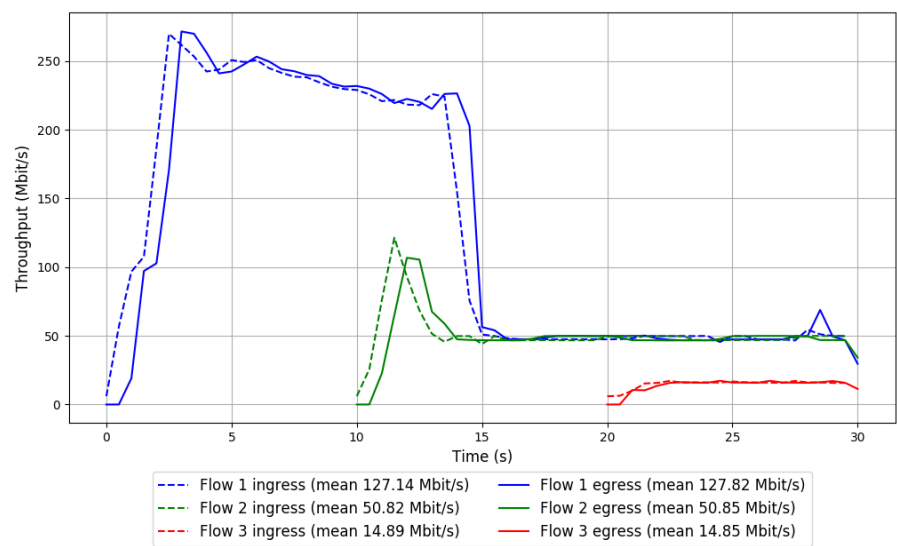
-- Flow 3:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 113.024 ms

Loss rate: 2.51%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 00:51:41

End at: 2018-06-19 00:52:11

Local clock offset: -0.74 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-06-19 05:22:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.92 Mbit/s

95th percentile per-packet one-way delay: 111.332 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 170.69 Mbit/s

95th percentile per-packet one-way delay: 111.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 111.350 ms

Loss rate: 1.51%

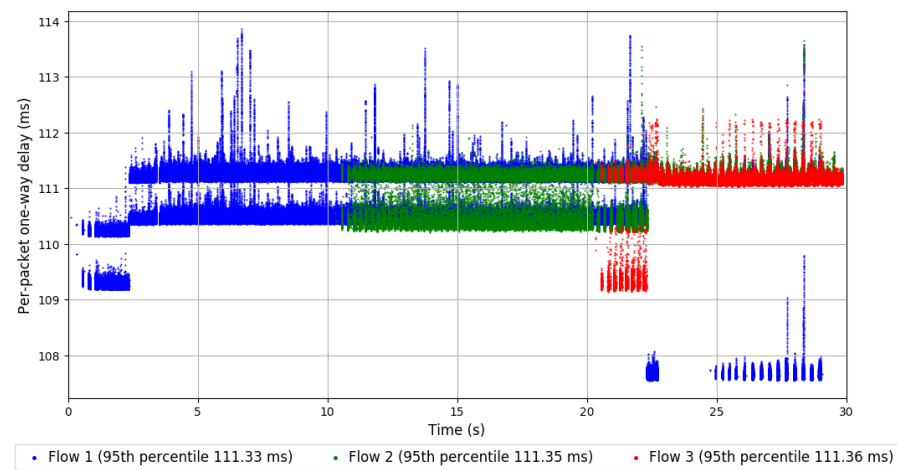
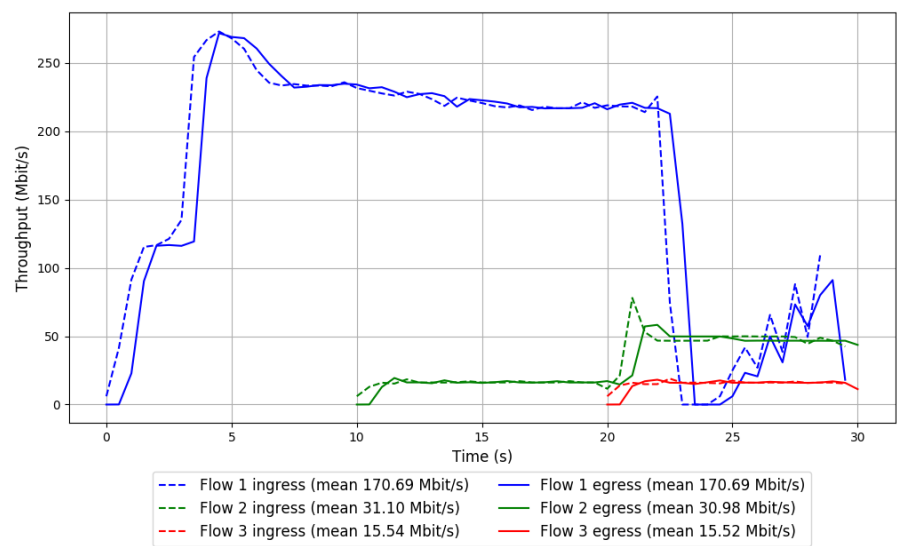
-- Flow 3:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 111.357 ms

Loss rate: 2.35%

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

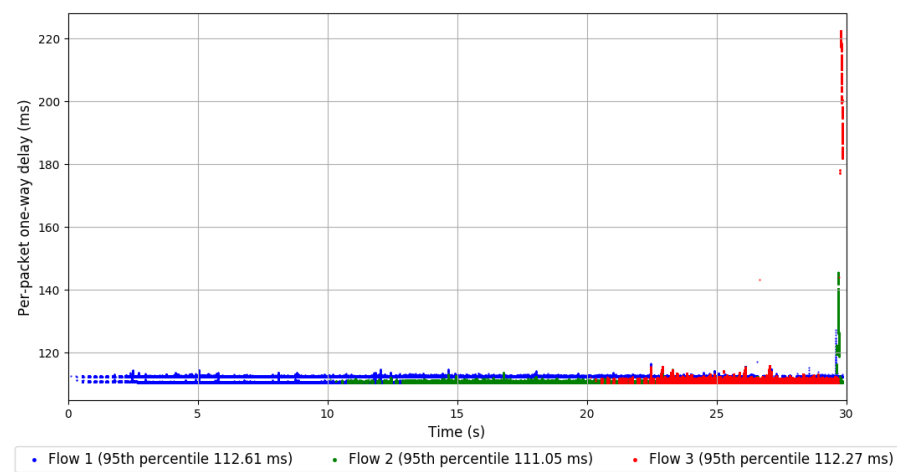
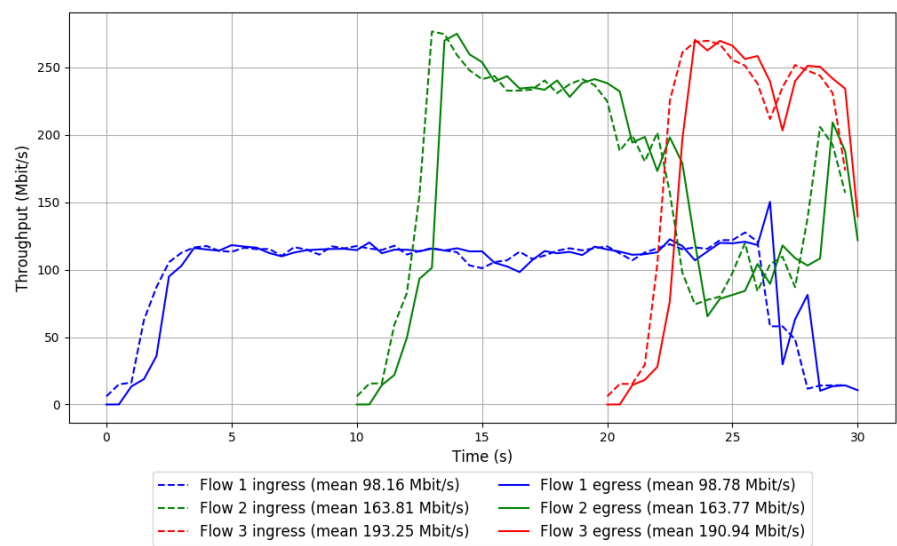


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 01:15:51
End at: 2018-06-19 01:16:21
Local clock offset: 0.704 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-19 05:23:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.96 Mbit/s
95th percentile per-packet one-way delay: 112.561 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 98.78 Mbit/s
95th percentile per-packet one-way delay: 112.611 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 163.77 Mbit/s
95th percentile per-packet one-way delay: 111.051 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 190.94 Mbit/s
95th percentile per-packet one-way delay: 112.270 ms
Loss rate: 2.23%

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

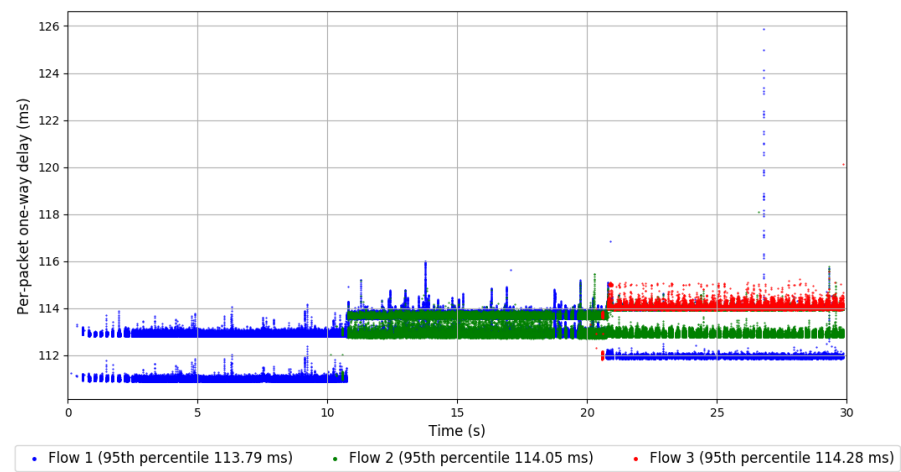
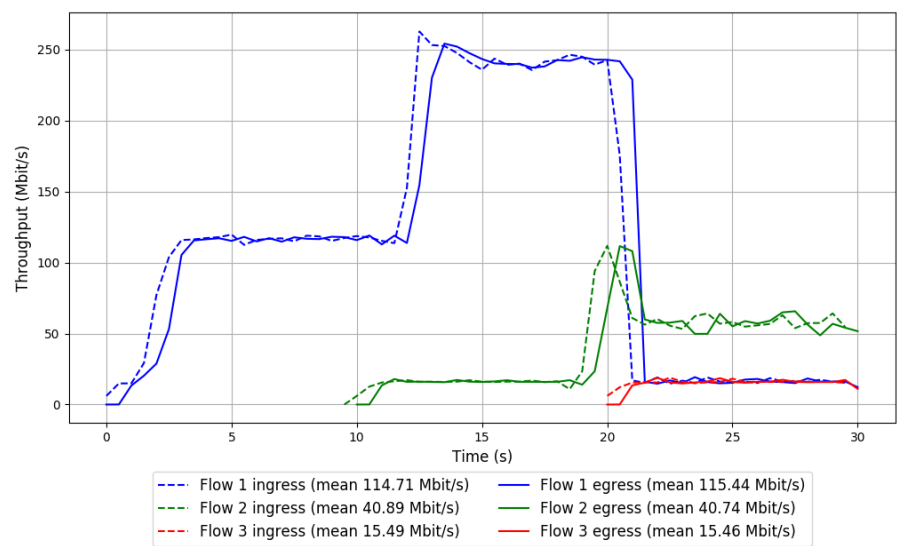


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 01:40:13
End at: 2018-06-19 01:40:43
Local clock offset: 2.025 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-19 05:23:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.52 Mbit/s
95th percentile per-packet one-way delay: 114.017 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 115.44 Mbit/s
95th percentile per-packet one-way delay: 113.788 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.74 Mbit/s
95th percentile per-packet one-way delay: 114.052 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 114.276 ms
Loss rate: 2.35%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 02:04:10

End at: 2018-06-19 02:04:40

Local clock offset: -0.042 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-19 05:23:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 112.324 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 112.312 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 112.170 ms

Loss rate: 0.46%

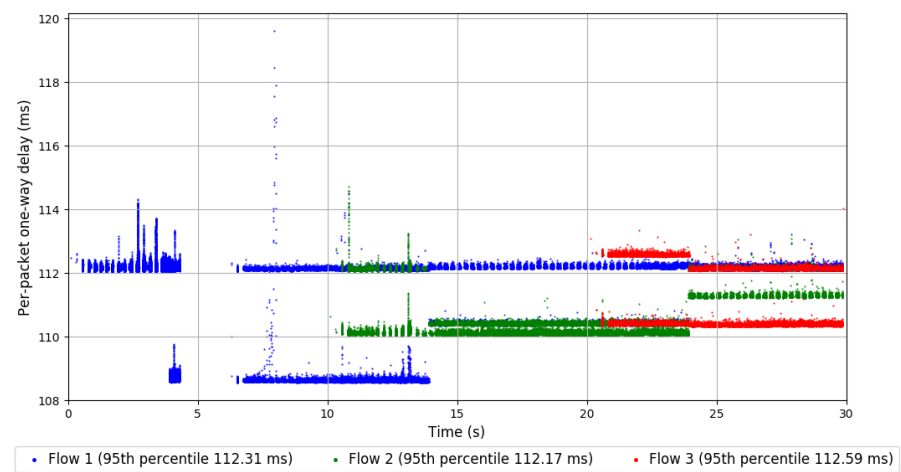
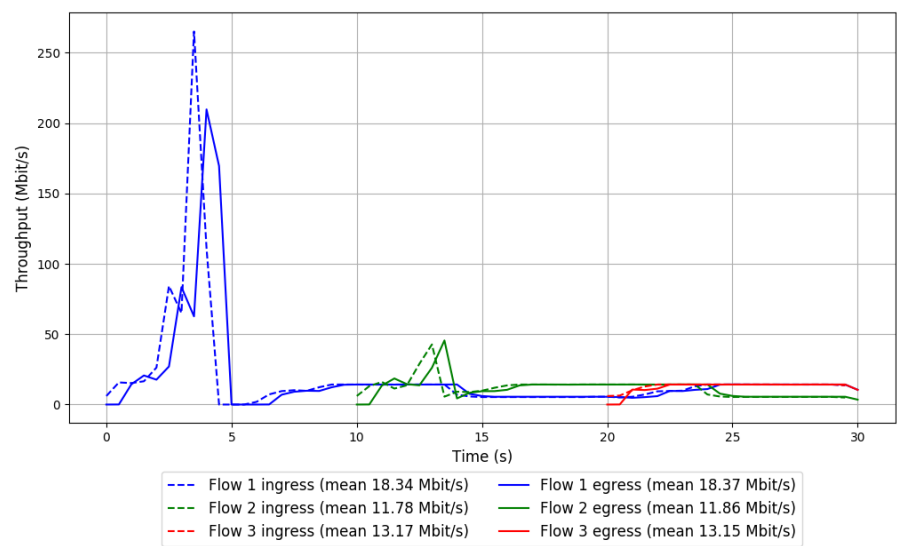
-- Flow 3:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 112.592 ms

Loss rate: 2.42%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 02:28:17

End at: 2018-06-19 02:28:47

Local clock offset: -0.107 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-19 05:23:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.72 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 3.62%

-- Flow 1:

Average throughput: 42.58 Mbit/s

95th percentile per-packet one-way delay: 112.494 ms

Loss rate: 4.28%

-- Flow 2:

Average throughput: 13.57 Mbit/s

95th percentile per-packet one-way delay: 113.081 ms

Loss rate: 1.14%

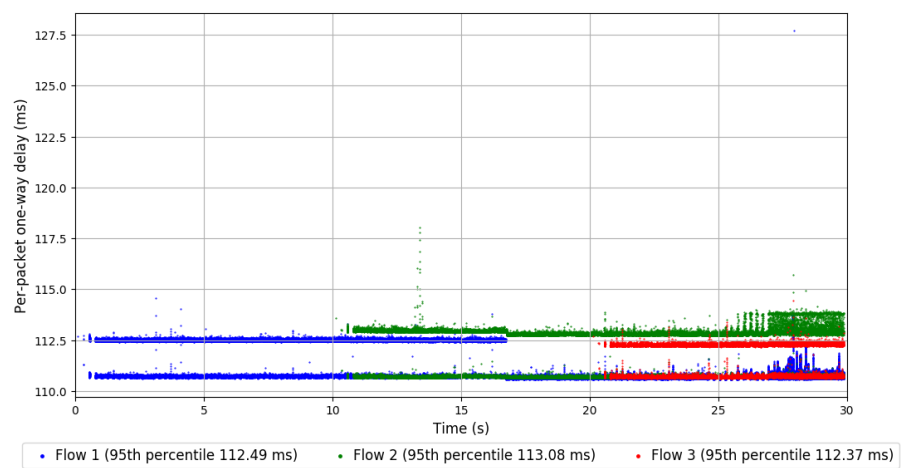
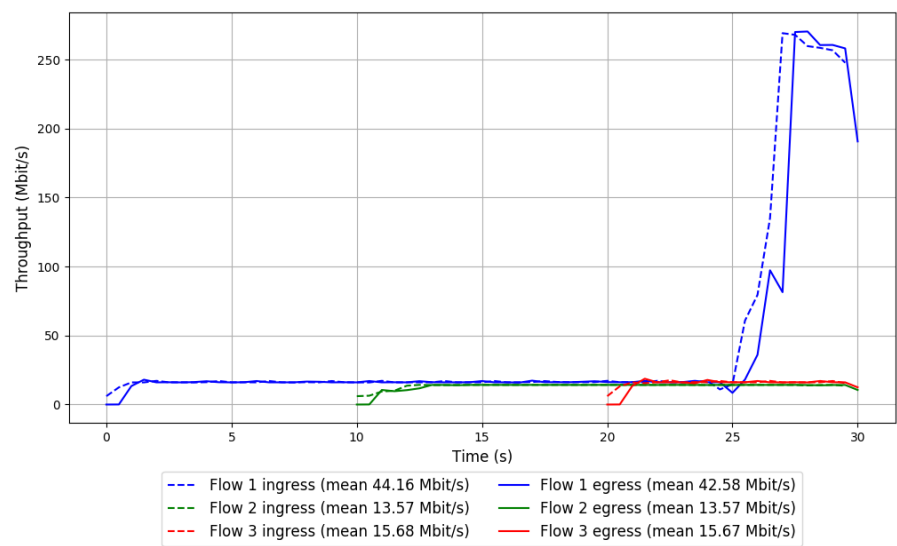
-- Flow 3:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 112.366 ms

Loss rate: 2.31%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 02:52:05

End at: 2018-06-19 02:52:35

Local clock offset: -1.386 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-06-19 05:23:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.65 Mbit/s

95th percentile per-packet one-way delay: 111.315 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 110.131 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 69.83 Mbit/s

95th percentile per-packet one-way delay: 111.331 ms

Loss rate: 1.89%

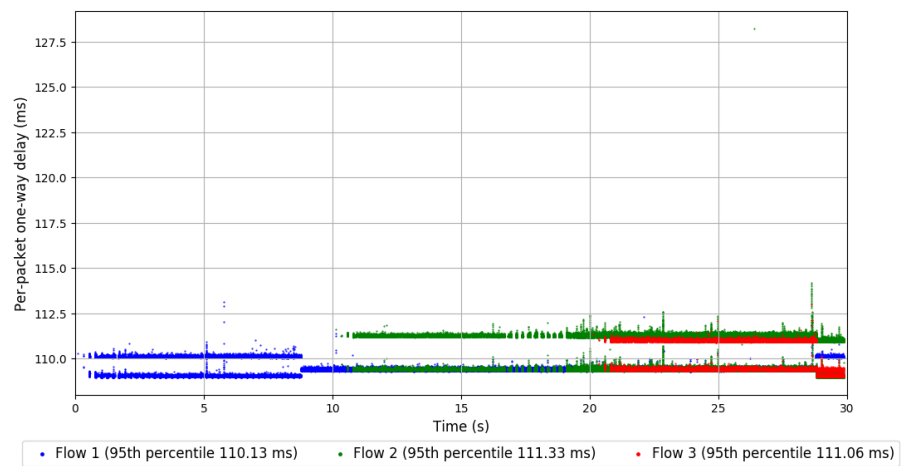
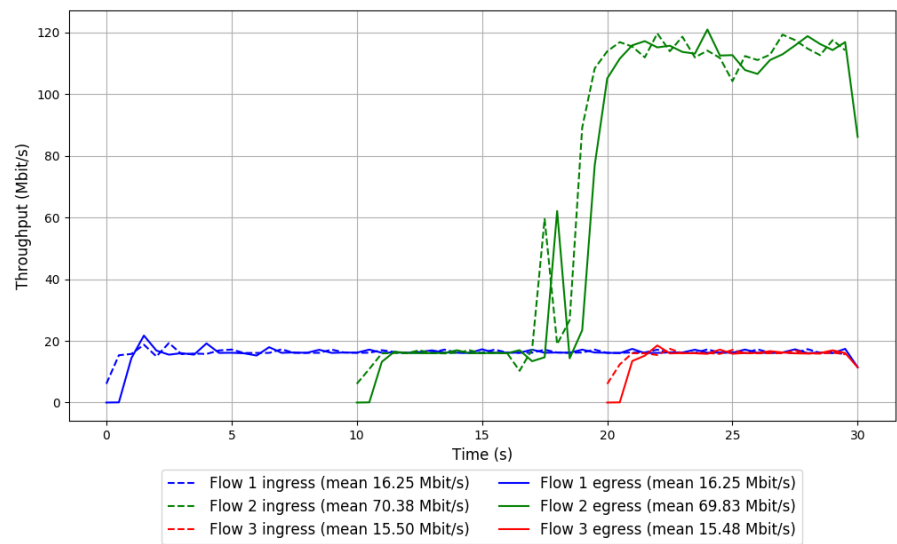
-- Flow 3:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 111.065 ms

Loss rate: 2.36%

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

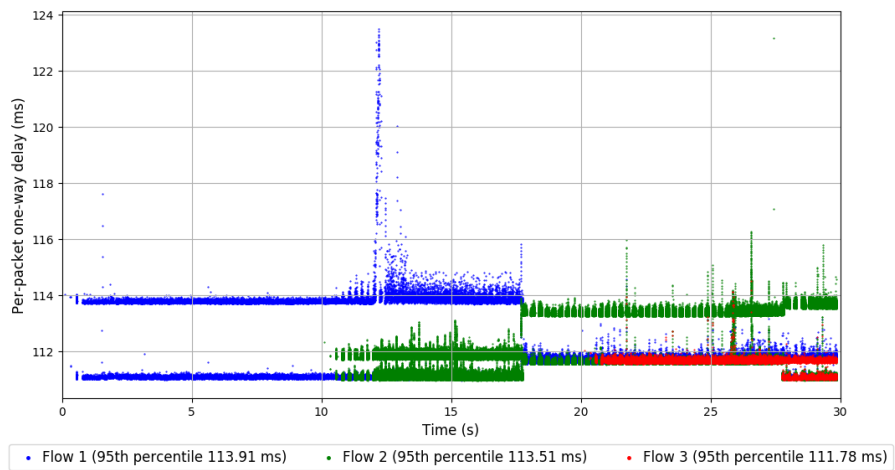
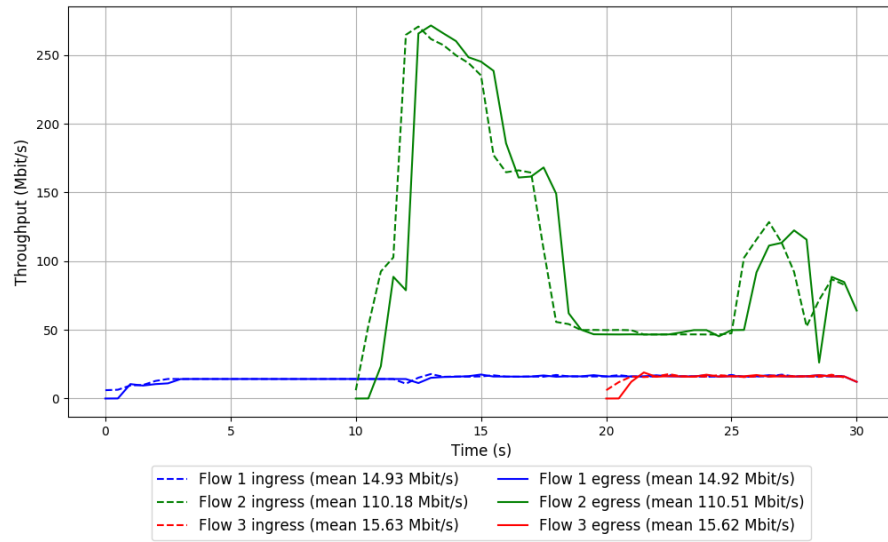


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 03:15:56
End at: 2018-06-19 03:16:26
Local clock offset: 1.2 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-19 05:23:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 113.726 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 113.908 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 110.51 Mbit/s
95th percentile per-packet one-way delay: 113.507 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 15.62 Mbit/s
95th percentile per-packet one-way delay: 111.780 ms
Loss rate: 2.33%

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

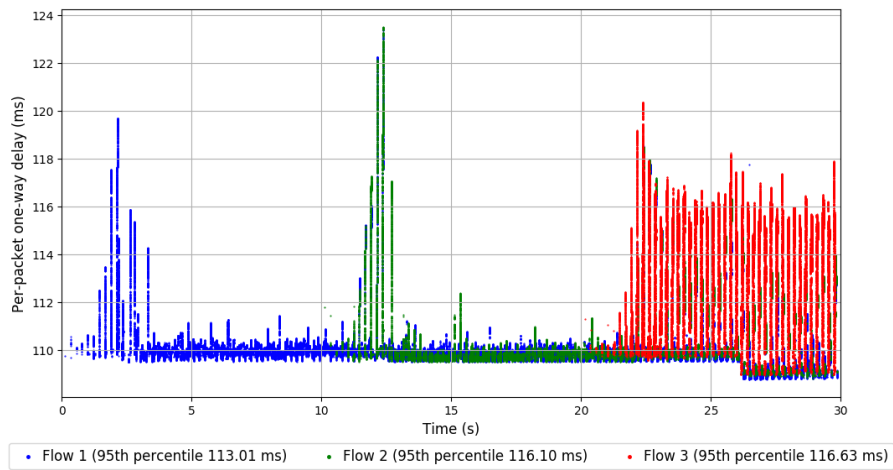
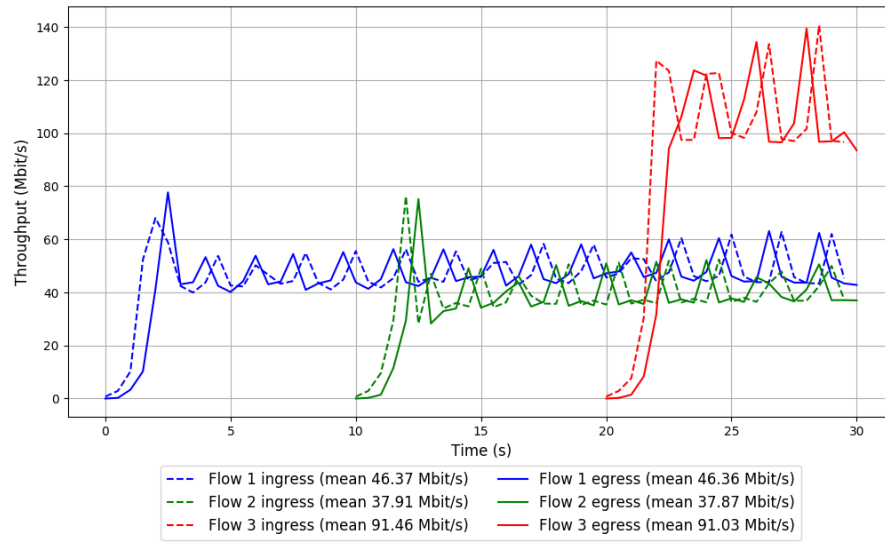


Run 1: Statistics of TCP Vegas

Start at: 2018-06-18 23:41:57
End at: 2018-06-18 23:42:27
Local clock offset: -0.002 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-19 05:23:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 100.97 Mbit/s
95th percentile per-packet one-way delay: 116.116 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 46.36 Mbit/s
95th percentile per-packet one-way delay: 113.014 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 37.87 Mbit/s
95th percentile per-packet one-way delay: 116.098 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 116.627 ms
Loss rate: 2.68%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 00:06:13

End at: 2018-06-19 00:06:43

Local clock offset: -1.29 ms

Remote clock offset: -0.35 ms

Below is generated by plot.py at 2018-06-19 05:23:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.97 Mbit/s

95th percentile per-packet one-way delay: 116.948 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 102.80 Mbit/s

95th percentile per-packet one-way delay: 116.975 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 114.011 ms

Loss rate: 1.21%

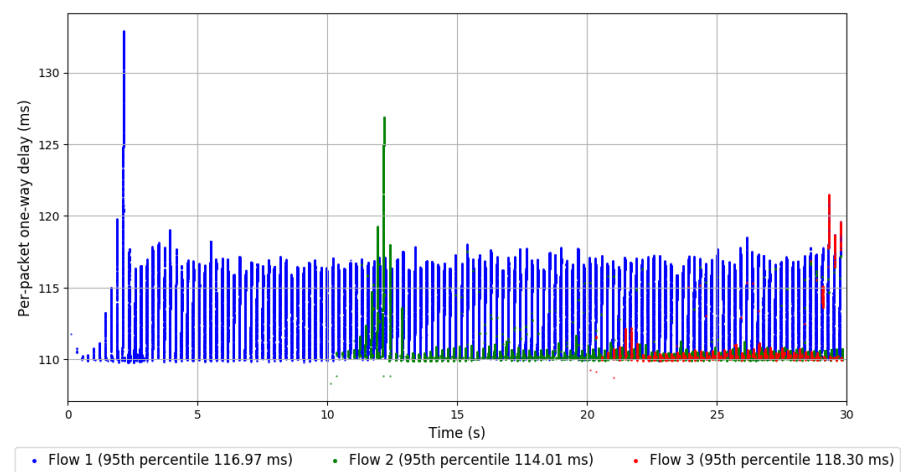
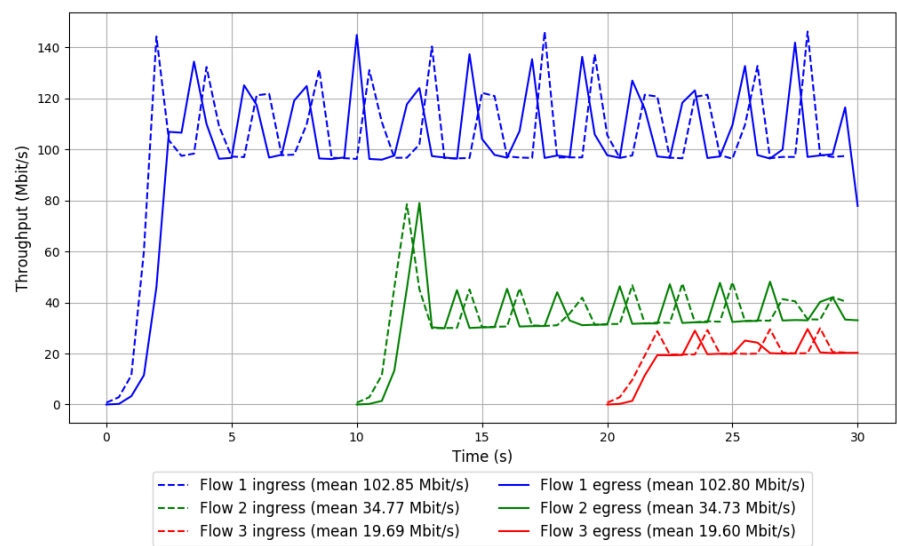
-- Flow 3:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 118.302 ms

Loss rate: 2.62%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 00:30:30

End at: 2018-06-19 00:31:00

Local clock offset: 0.346 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-06-19 05:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.19 Mbit/s

95th percentile per-packet one-way delay: 119.499 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 117.710 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 100.01 Mbit/s

95th percentile per-packet one-way delay: 119.830 ms

Loss rate: 1.24%

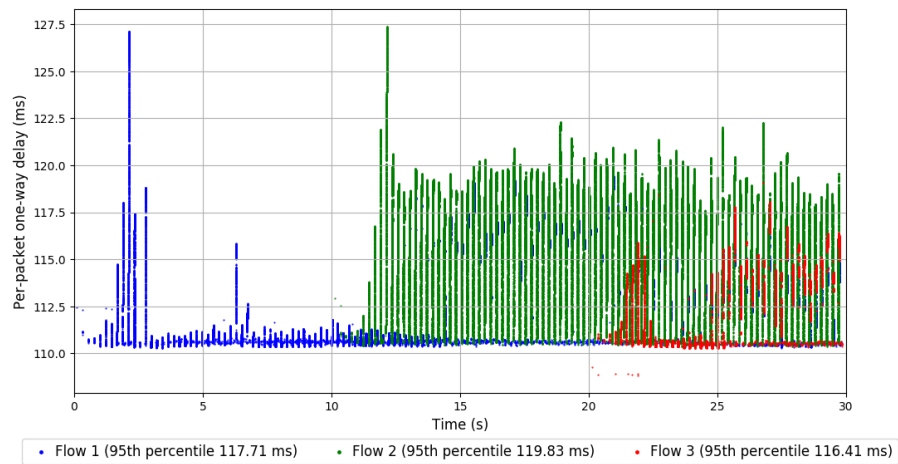
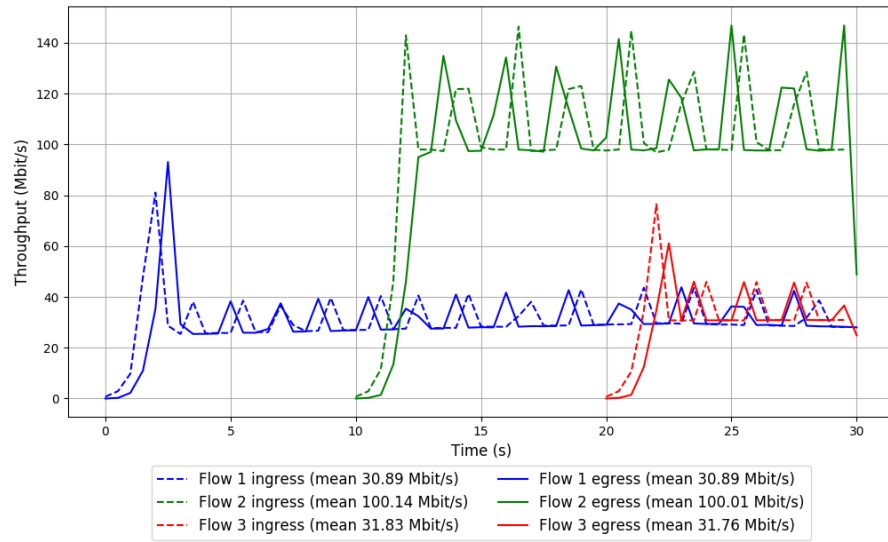
-- Flow 3:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 116.409 ms

Loss rate: 2.43%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 00:54:46

End at: 2018-06-19 00:55:16

Local clock offset: 0.255 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-06-19 05:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.44 Mbit/s

95th percentile per-packet one-way delay: 119.829 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 29.47 Mbit/s

95th percentile per-packet one-way delay: 118.392 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 98.96 Mbit/s

95th percentile per-packet one-way delay: 120.114 ms

Loss rate: 1.23%

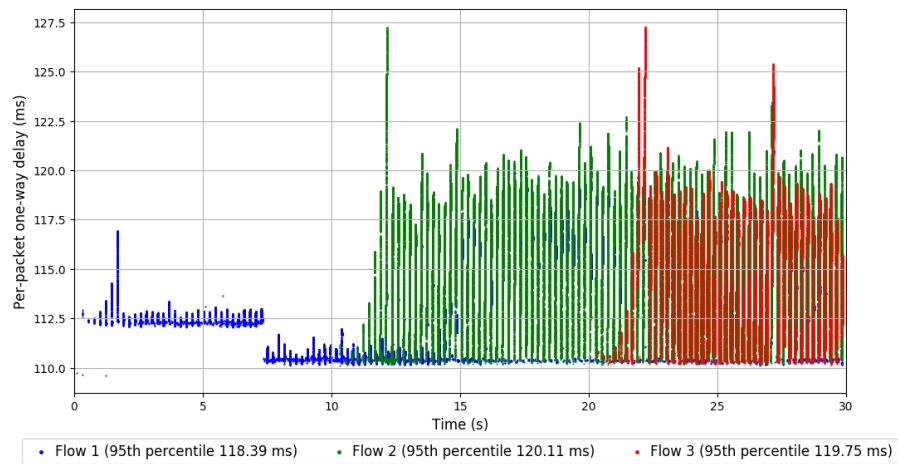
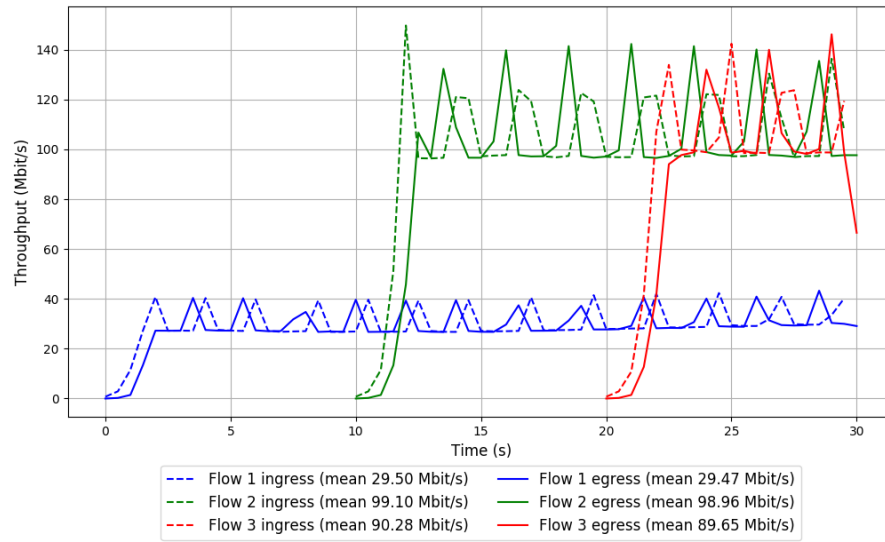
-- Flow 3:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 119.755 ms

Loss rate: 2.94%

Run 4: Report of TCP Vegas — Data Link

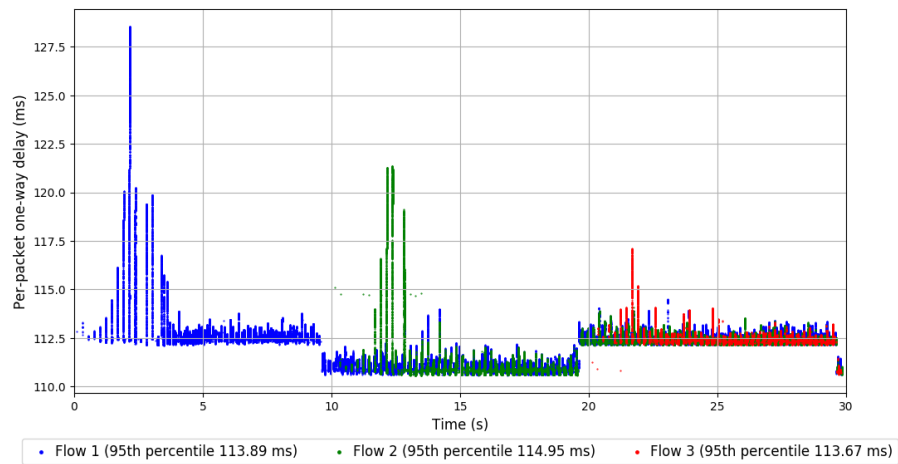
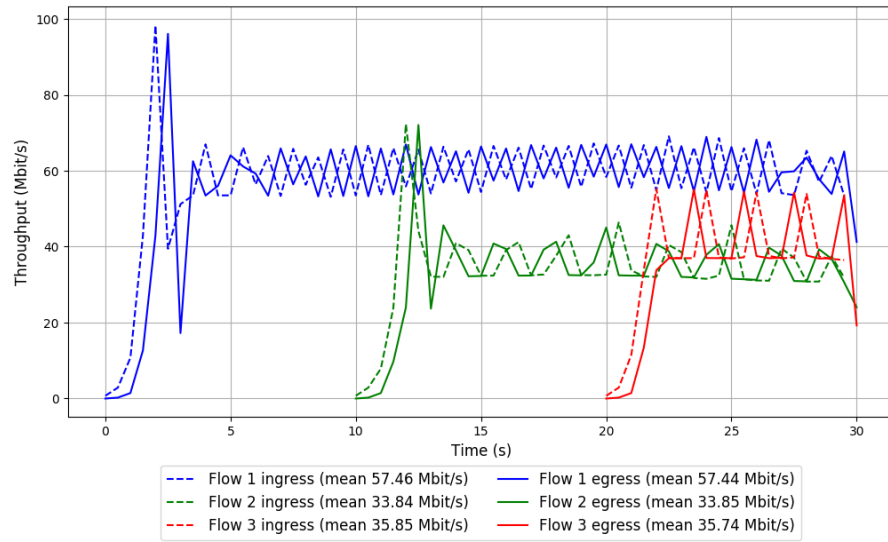


Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 01:19:14
End at: 2018-06-19 01:19:44
Local clock offset: 0.55 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-19 05:23:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 113.871 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 57.44 Mbit/s
95th percentile per-packet one-way delay: 113.888 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 33.85 Mbit/s
95th percentile per-packet one-way delay: 114.955 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 35.74 Mbit/s
95th percentile per-packet one-way delay: 113.671 ms
Loss rate: 2.56%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 01:43:16

End at: 2018-06-19 01:43:46

Local clock offset: 0.536 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-06-19 05:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.26 Mbit/s

95th percentile per-packet one-way delay: 113.382 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 113.212 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 113.775 ms

Loss rate: 1.22%

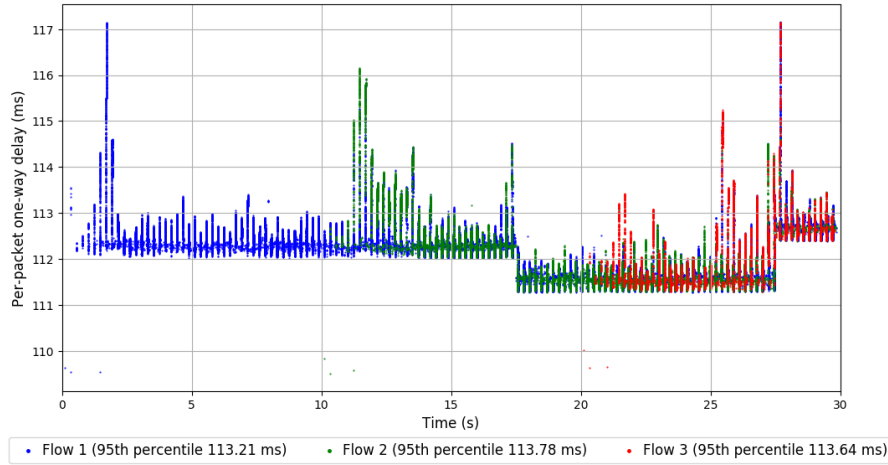
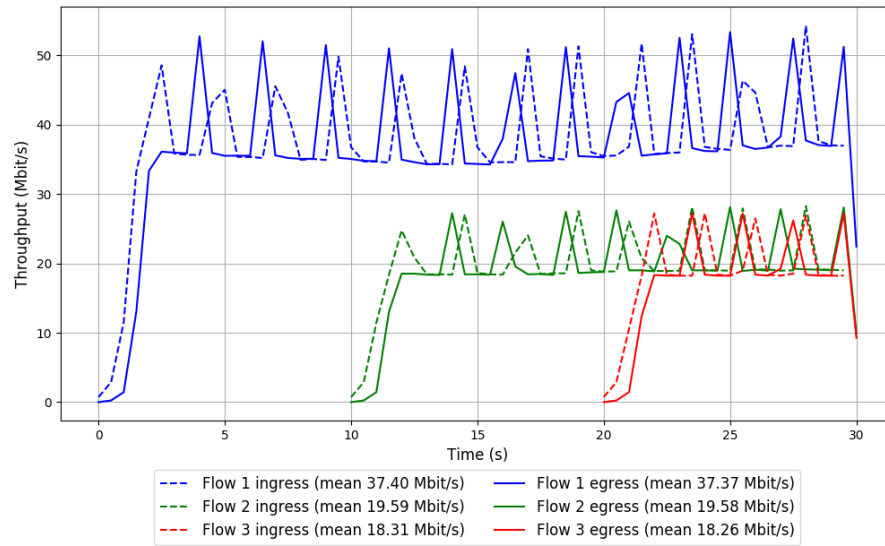
-- Flow 3:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 113.641 ms

Loss rate: 2.53%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 02:06:59

End at: 2018-06-19 02:07:29

Local clock offset: -0.12 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-19 05:24:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.42 Mbit/s

95th percentile per-packet one-way delay: 119.396 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 101.95 Mbit/s

95th percentile per-packet one-way delay: 119.504 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 39.22 Mbit/s

95th percentile per-packet one-way delay: 117.809 ms

Loss rate: 1.17%

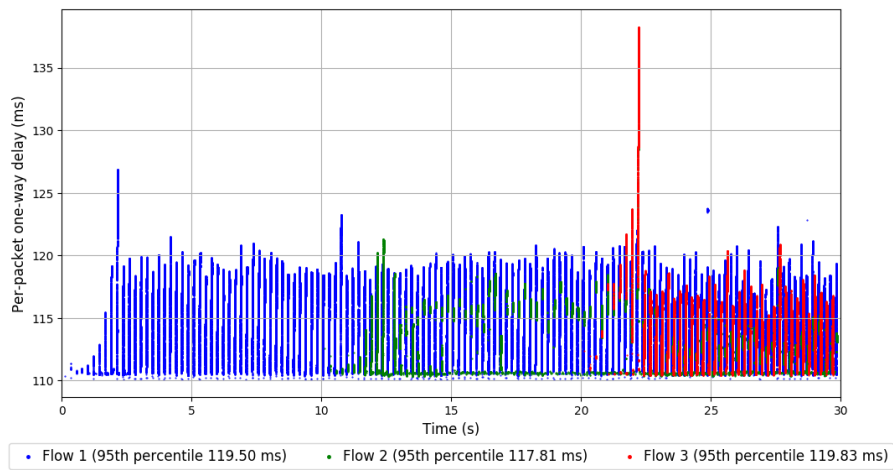
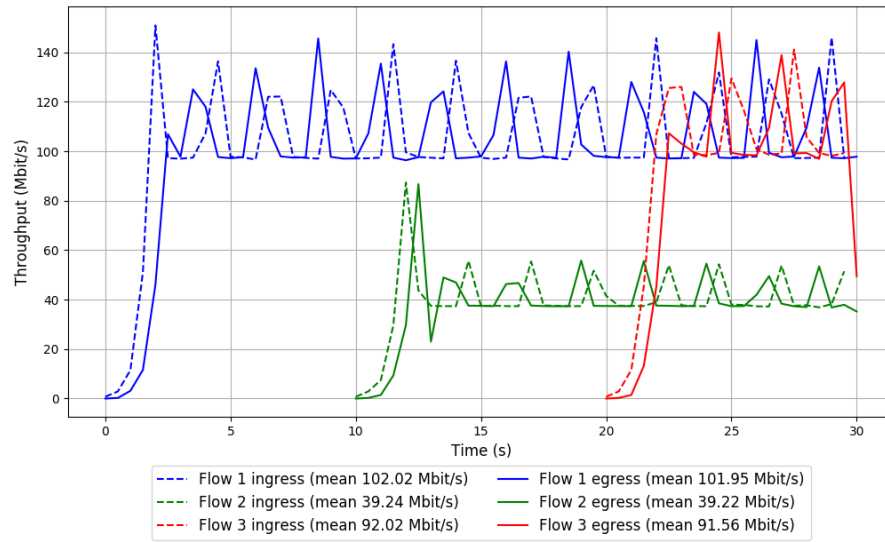
-- Flow 3:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 119.831 ms

Loss rate: 2.76%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 02:31:09

End at: 2018-06-19 02:31:39

Local clock offset: -1.474 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-19 05:24:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.37 Mbit/s

95th percentile per-packet one-way delay: 118.385 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 101.90 Mbit/s

95th percentile per-packet one-way delay: 118.328 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 117.046 ms

Loss rate: 2.64%

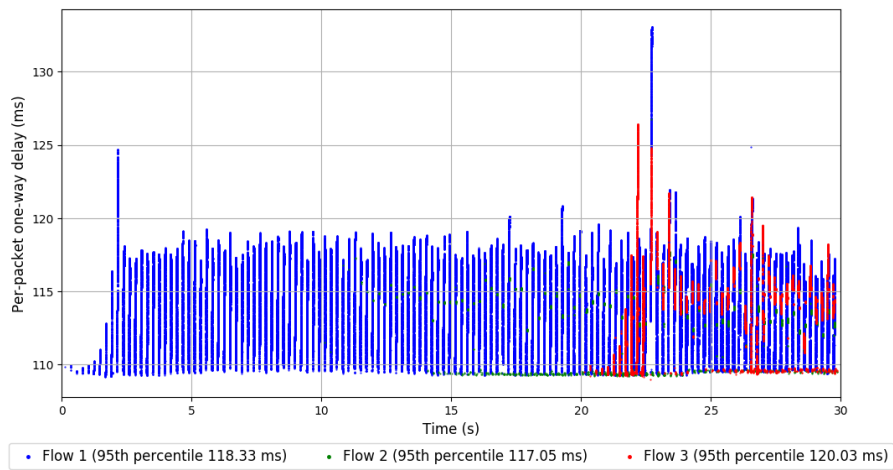
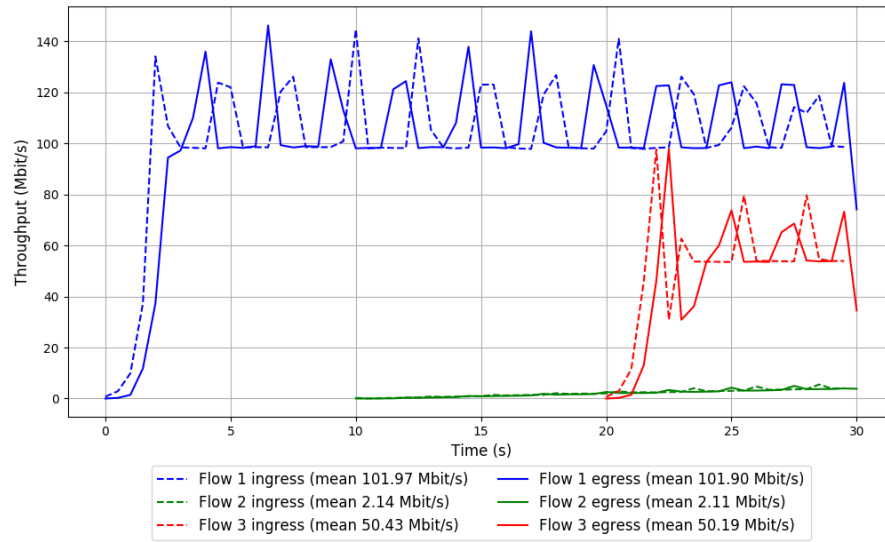
-- Flow 3:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 120.027 ms

Loss rate: 2.68%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 02:55:03

End at: 2018-06-19 02:55:33

Local clock offset: -1.36 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-19 05:24:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.24 Mbit/s

95th percentile per-packet one-way delay: 113.187 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 20.65 Mbit/s

95th percentile per-packet one-way delay: 110.349 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 115.858 ms

Loss rate: 0.81%

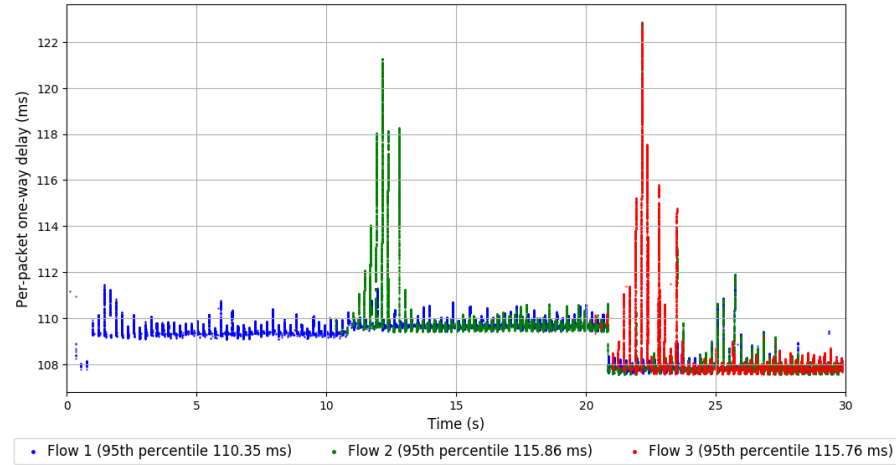
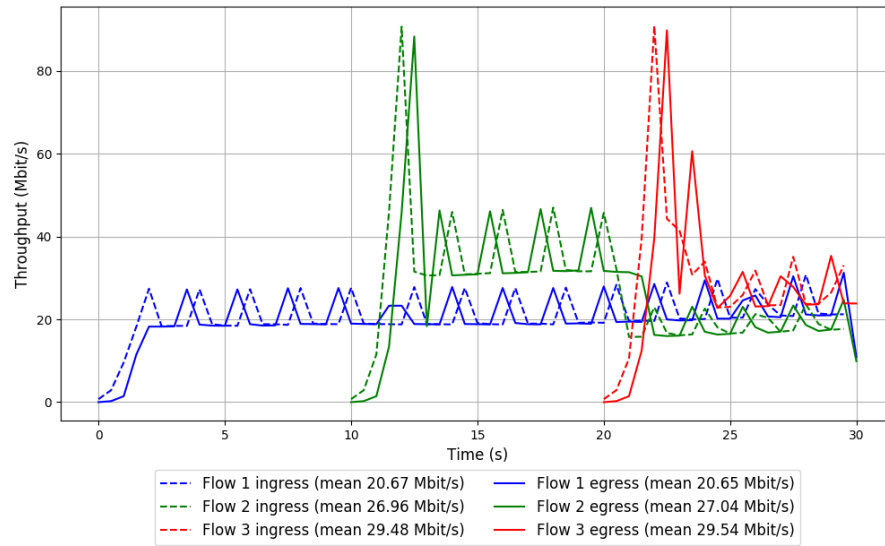
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 115.764 ms

Loss rate: 2.04%

Run 9: Report of TCP Vegas — Data Link

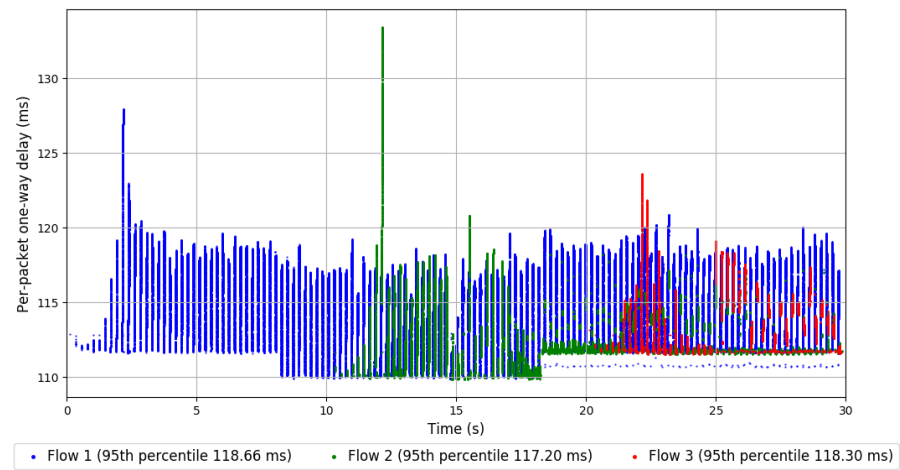
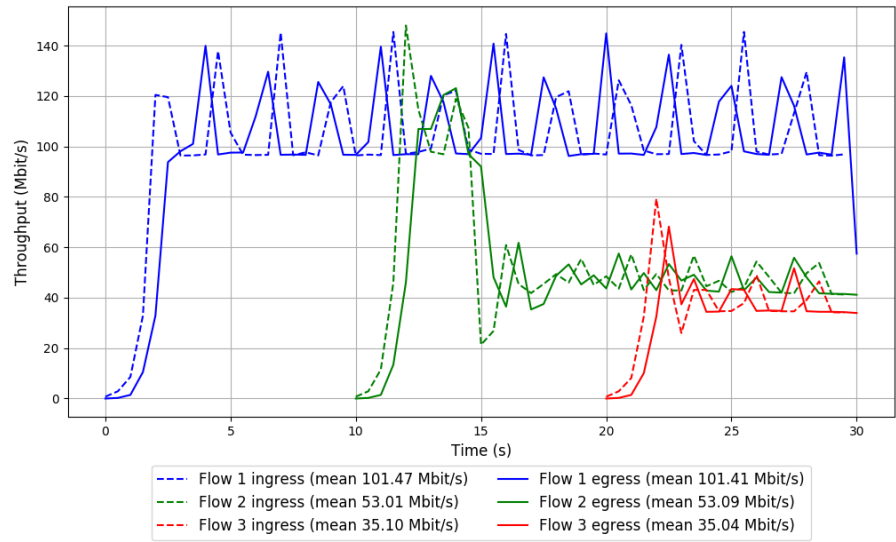


Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 03:19:05
End at: 2018-06-19 03:19:35
Local clock offset: 0.024 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-19 05:24:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.65 Mbit/s
95th percentile per-packet one-way delay: 118.520 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 101.41 Mbit/s
95th percentile per-packet one-way delay: 118.661 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 53.09 Mbit/s
95th percentile per-packet one-way delay: 117.198 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 118.295 ms
Loss rate: 2.44%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-18 23:55:35

End at: 2018-06-18 23:56:05

Local clock offset: -0.156 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-19 05:26:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.92 Mbit/s

95th percentile per-packet one-way delay: 168.142 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 116.80 Mbit/s

95th percentile per-packet one-way delay: 148.363 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 182.90 Mbit/s

95th percentile per-packet one-way delay: 175.628 ms

Loss rate: 1.88%

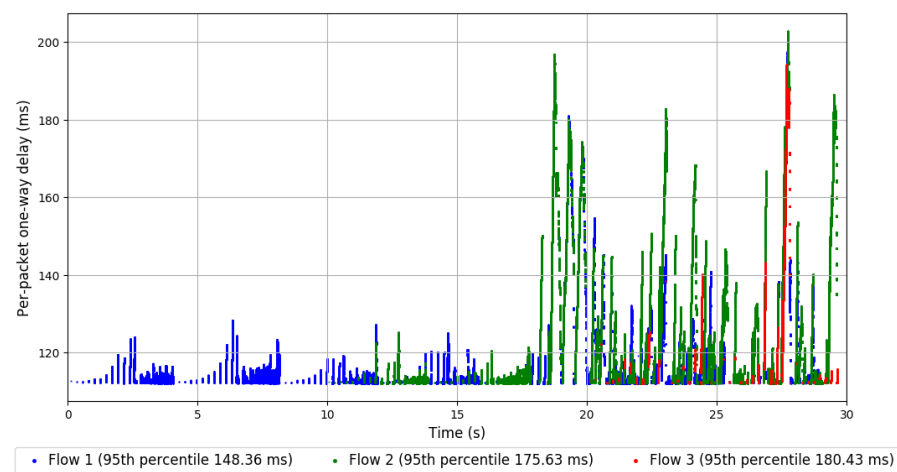
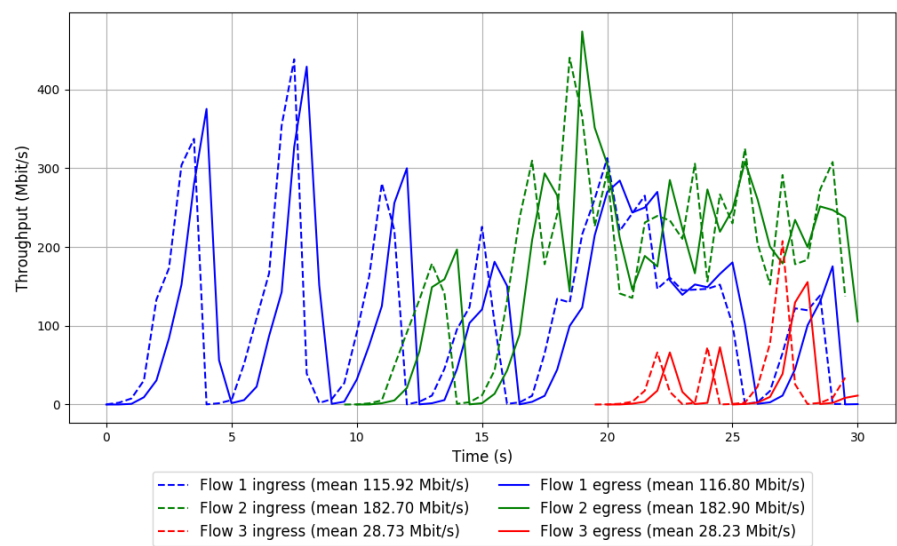
-- Flow 3:

Average throughput: 28.23 Mbit/s

95th percentile per-packet one-way delay: 180.426 ms

Loss rate: 4.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-19 00:20:01

End at: 2018-06-19 00:20:31

Local clock offset: 0.022 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-06-19 05:27:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.24 Mbit/s

95th percentile per-packet one-way delay: 241.736 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 203.62 Mbit/s

95th percentile per-packet one-way delay: 184.988 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 45.65 Mbit/s

95th percentile per-packet one-way delay: 221.358 ms

Loss rate: 6.17%

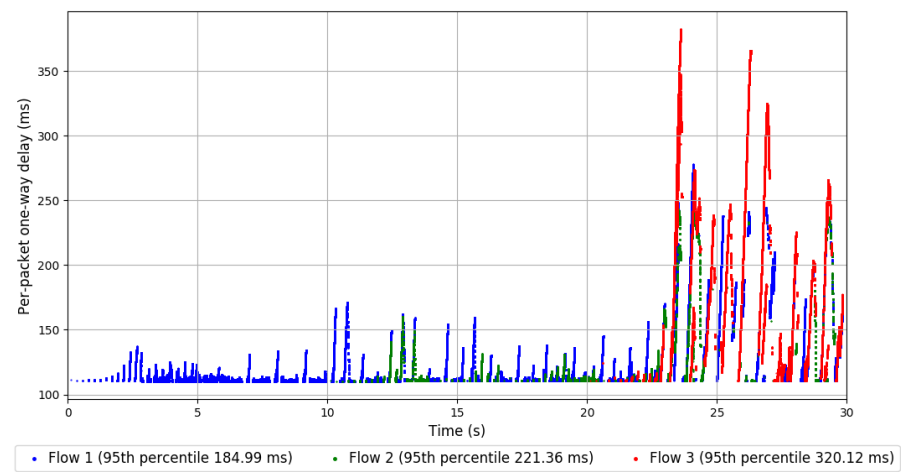
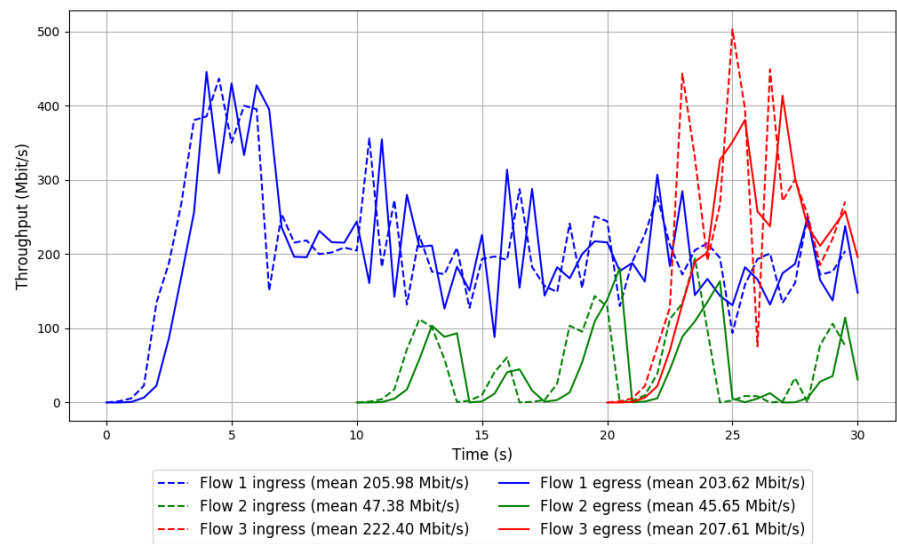
-- Flow 3:

Average throughput: 207.61 Mbit/s

95th percentile per-packet one-way delay: 320.120 ms

Loss rate: 8.11%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-19 00:44:15

End at: 2018-06-19 00:44:45

Local clock offset: 0.224 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2018-06-19 05:27:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.50 Mbit/s

95th percentile per-packet one-way delay: 185.531 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 123.63 Mbit/s

95th percentile per-packet one-way delay: 184.827 ms

Loss rate: 2.27%

-- Flow 2:

Average throughput: 149.35 Mbit/s

95th percentile per-packet one-way delay: 184.667 ms

Loss rate: 1.32%

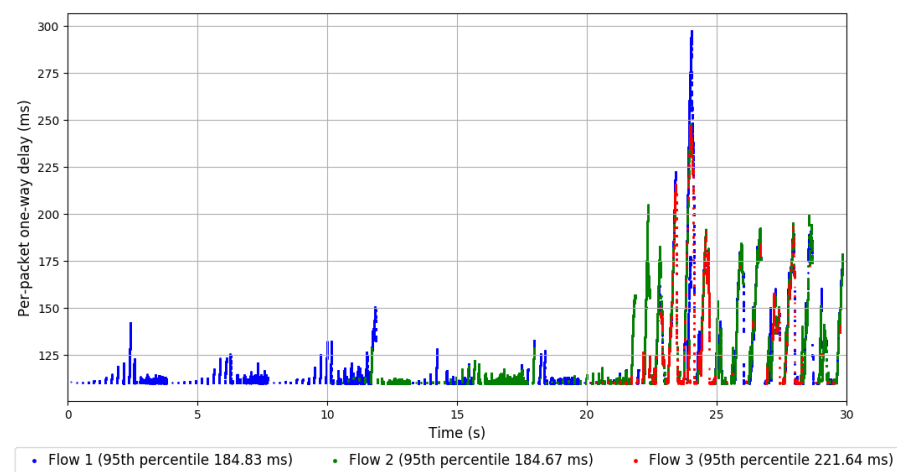
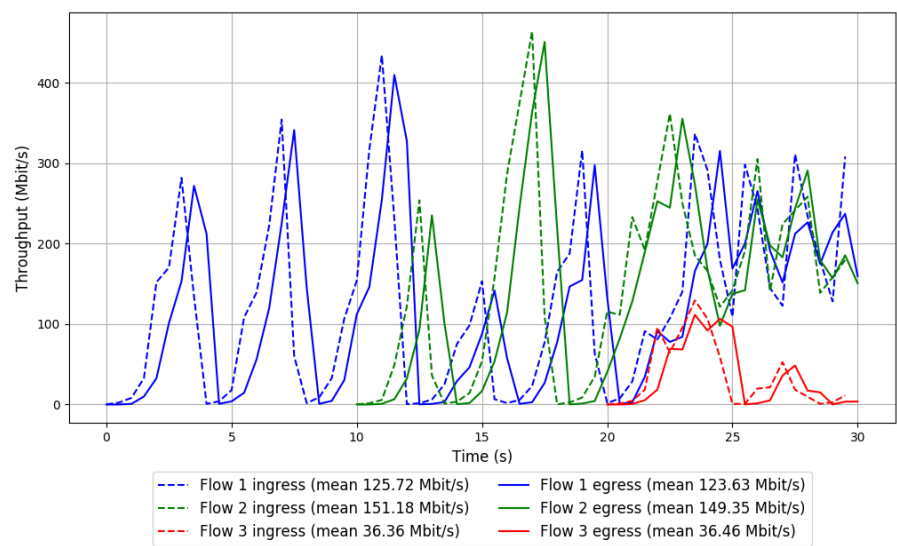
-- Flow 3:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 221.639 ms

Loss rate: 2.02%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-19 01:08:26

End at: 2018-06-19 01:08:56

Local clock offset: 0.504 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-06-19 05:27:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.80 Mbit/s

95th percentile per-packet one-way delay: 147.140 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 146.95 Mbit/s

95th percentile per-packet one-way delay: 139.948 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 88.72 Mbit/s

95th percentile per-packet one-way delay: 140.584 ms

Loss rate: 2.29%

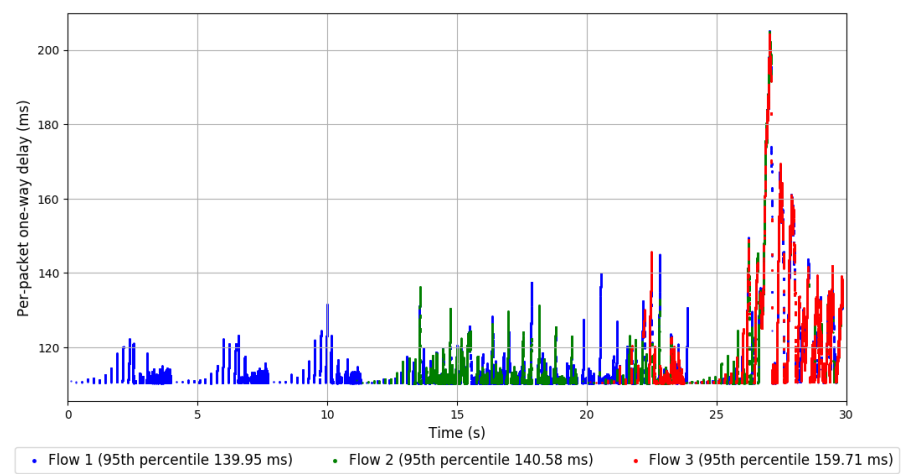
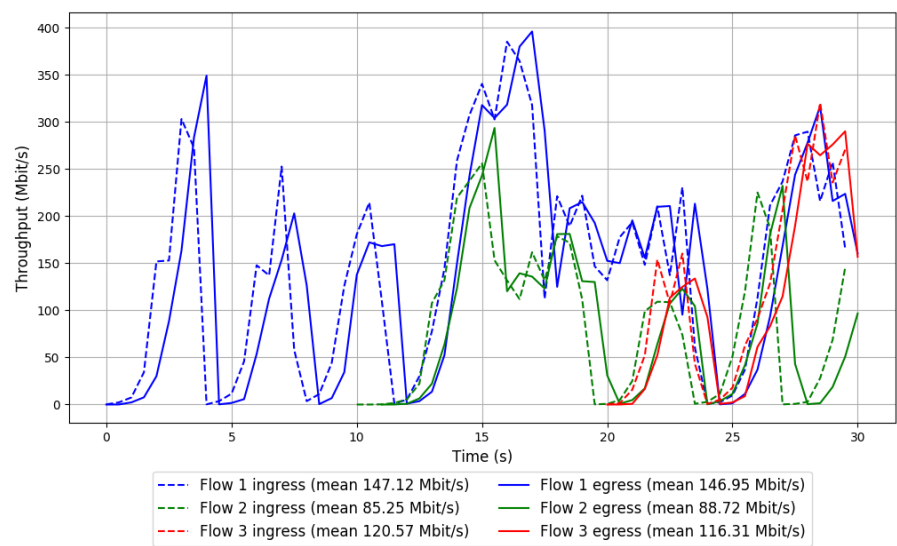
-- Flow 3:

Average throughput: 116.31 Mbit/s

95th percentile per-packet one-way delay: 159.711 ms

Loss rate: 5.70%

Run 4: Report of Verus — Data Link

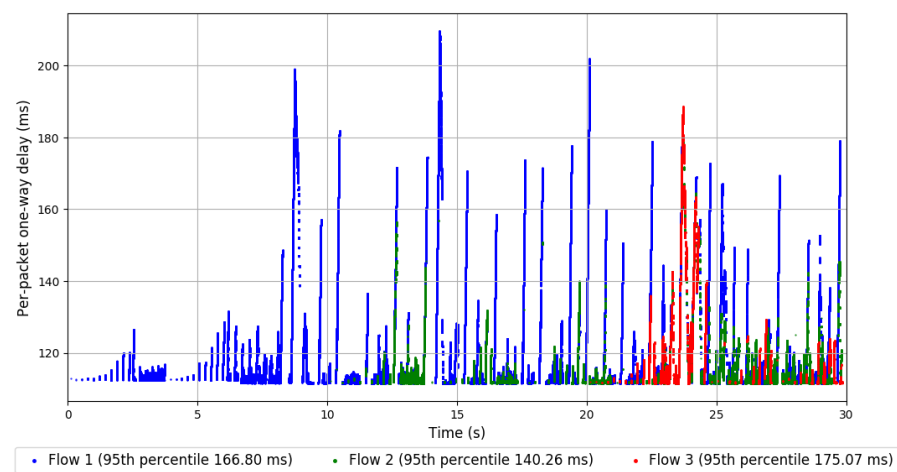
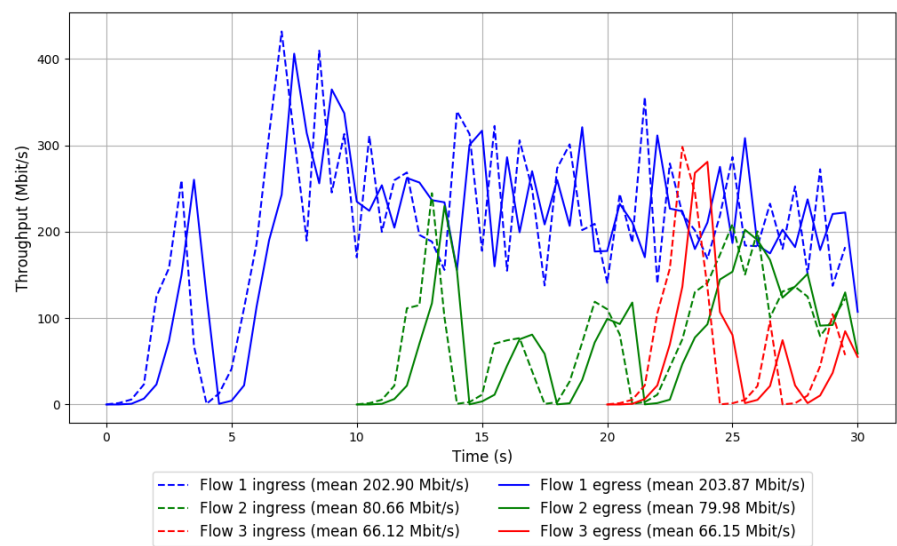


Run 5: Statistics of Verus

Start at: 2018-06-19 01:32:47
End at: 2018-06-19 01:33:17
Local clock offset: 0.711 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-19 05:28:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.86 Mbit/s
95th percentile per-packet one-way delay: 164.213 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 203.87 Mbit/s
95th percentile per-packet one-way delay: 166.800 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 79.98 Mbit/s
95th percentile per-packet one-way delay: 140.264 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 66.15 Mbit/s
95th percentile per-packet one-way delay: 175.075 ms
Loss rate: 2.26%

Run 5: Report of Verus — Data Link

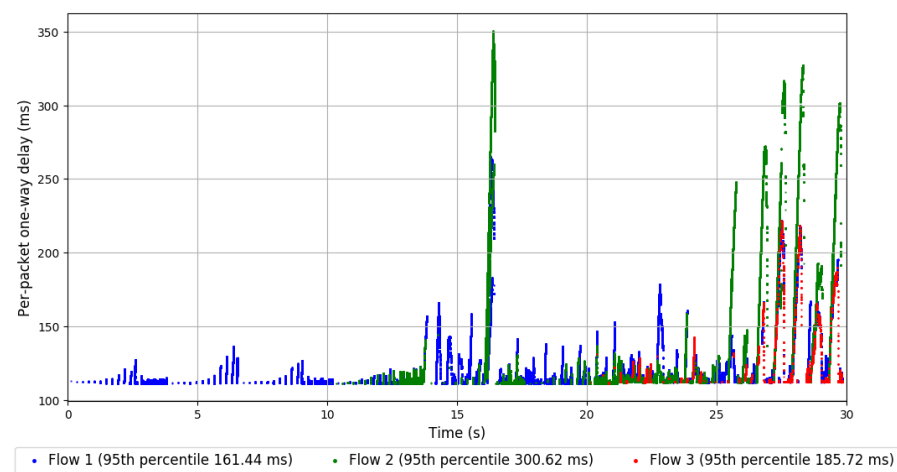
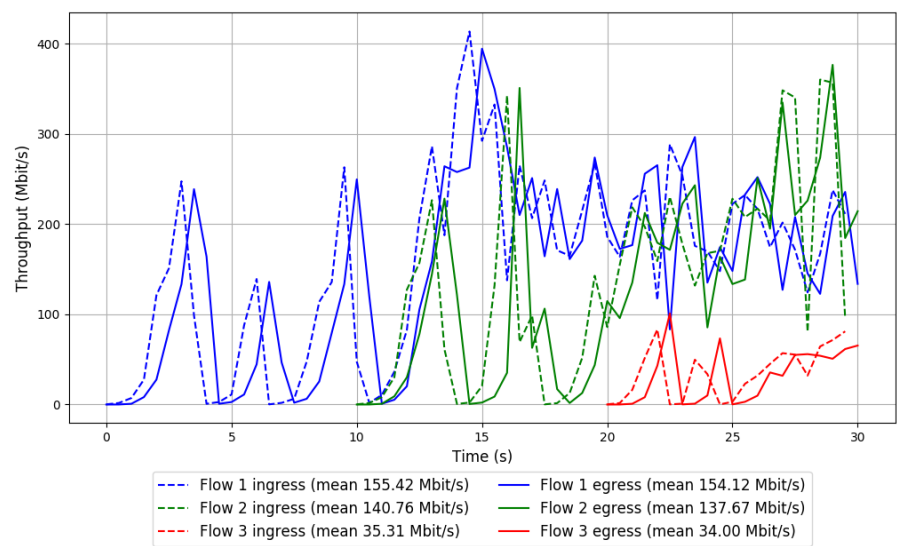


Run 6: Statistics of Verus

Start at: 2018-06-19 01:56:42
End at: 2018-06-19 01:57:12
Local clock offset: 0.326 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-19 05:28:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.29 Mbit/s
95th percentile per-packet one-way delay: 245.418 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 154.12 Mbit/s
95th percentile per-packet one-way delay: 161.435 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 137.67 Mbit/s
95th percentile per-packet one-way delay: 300.619 ms
Loss rate: 3.62%
-- Flow 3:
Average throughput: 34.00 Mbit/s
95th percentile per-packet one-way delay: 185.721 ms
Loss rate: 5.91%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-19 02:20:49

End at: 2018-06-19 02:21:19

Local clock offset: -1.421 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-19 05:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.75 Mbit/s

95th percentile per-packet one-way delay: 220.841 ms

Loss rate: 3.46%

-- Flow 1:

Average throughput: 200.04 Mbit/s

95th percentile per-packet one-way delay: 213.077 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 152.02 Mbit/s

95th percentile per-packet one-way delay: 227.488 ms

Loss rate: 5.26%

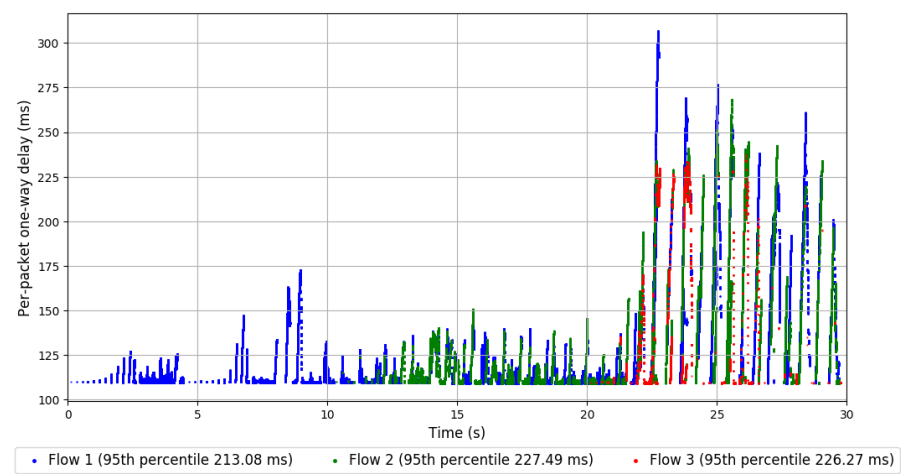
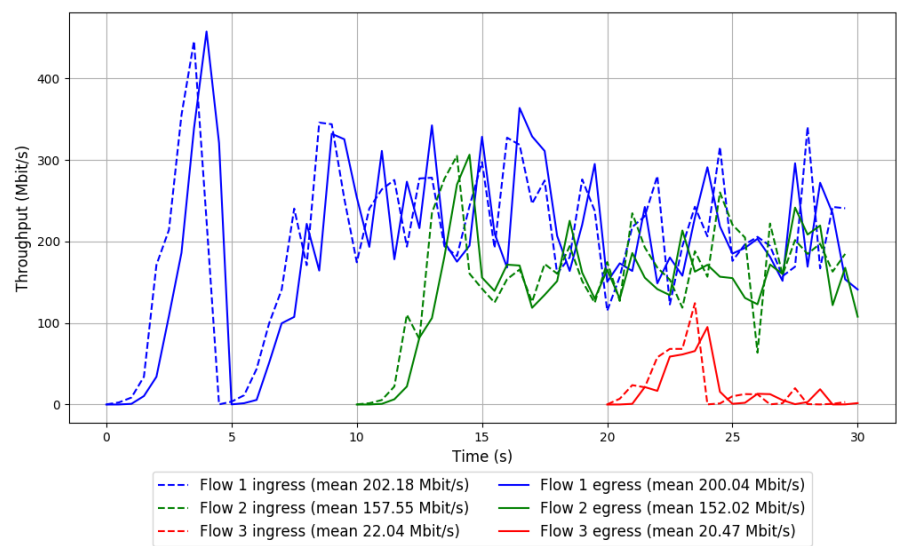
-- Flow 3:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 226.267 ms

Loss rate: 9.23%

Run 7: Report of Verus — Data Link

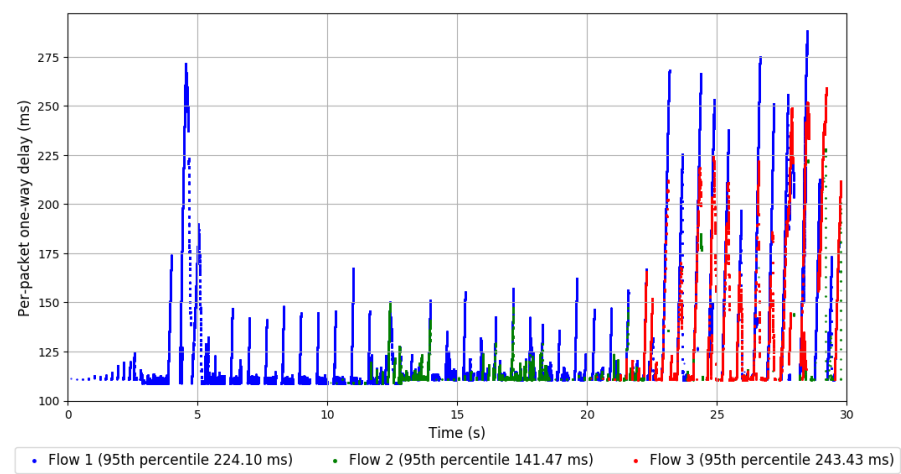
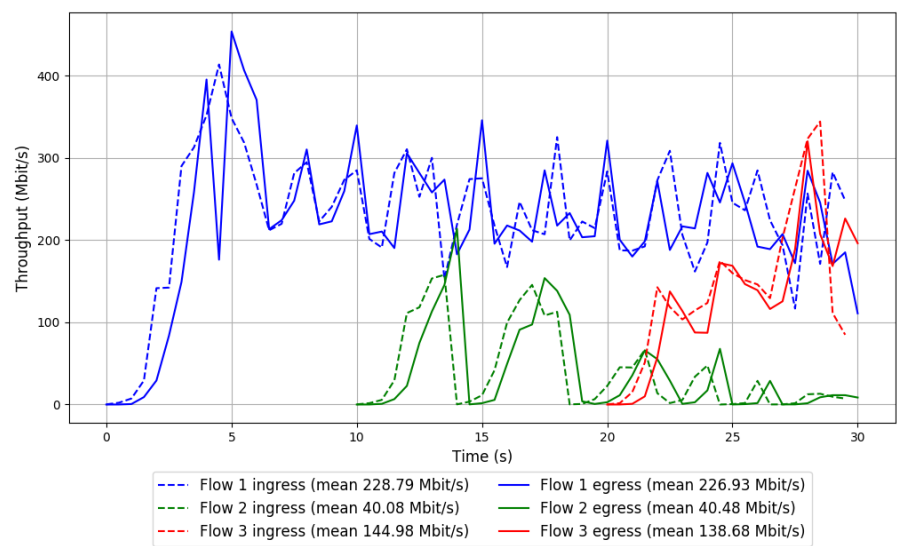


Run 8: Statistics of Verus

Start at: 2018-06-19 02:44:41
End at: 2018-06-19 02:45:11
Local clock offset: -0.129 ms
Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-06-19 05:30:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 298.20 Mbit/s
95th percentile per-packet one-way delay: 230.574 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 226.93 Mbit/s
95th percentile per-packet one-way delay: 224.102 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 141.474 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 138.68 Mbit/s
95th percentile per-packet one-way delay: 243.430 ms
Loss rate: 3.34%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-19 03:08:21

End at: 2018-06-19 03:08:51

Local clock offset: -1.353 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-19 05:32:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.38 Mbit/s

95th percentile per-packet one-way delay: 297.607 ms

Loss rate: 9.66%

-- Flow 1:

Average throughput: 219.03 Mbit/s

95th percentile per-packet one-way delay: 256.813 ms

Loss rate: 6.05%

-- Flow 2:

Average throughput: 183.10 Mbit/s

95th percentile per-packet one-way delay: 314.896 ms

Loss rate: 15.65%

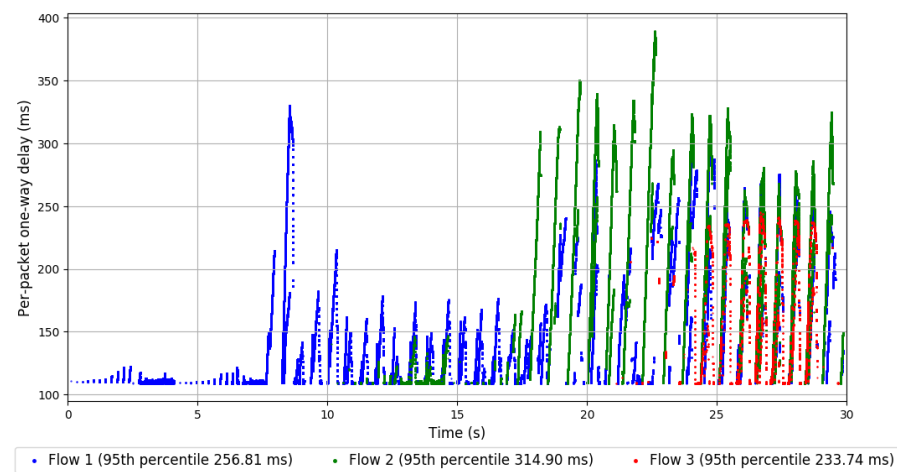
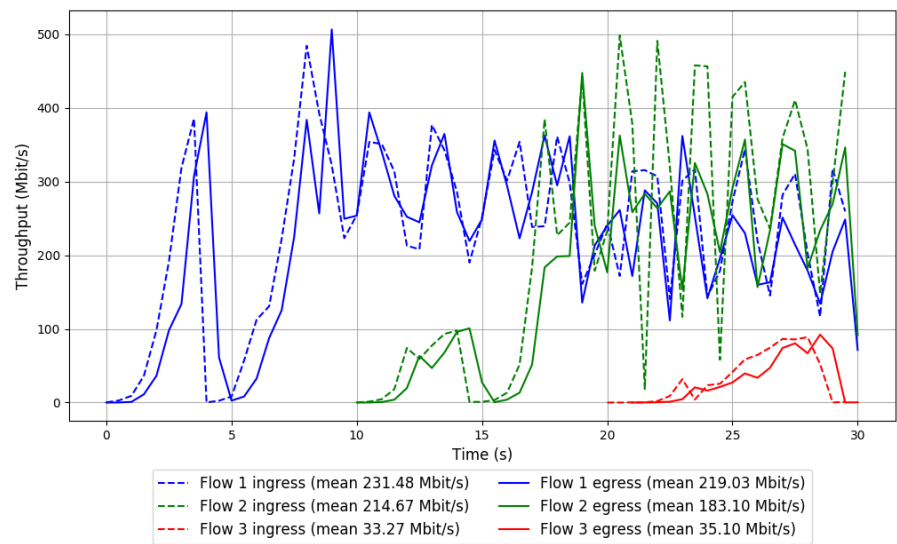
-- Flow 3:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 233.737 ms

Loss rate: 7.75%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-19 03:32:41

End at: 2018-06-19 03:33:11

Local clock offset: 0.045 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2018-06-19 05:32:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.70 Mbit/s

95th percentile per-packet one-way delay: 299.025 ms

Loss rate: 4.65%

-- Flow 1:

Average throughput: 128.72 Mbit/s

95th percentile per-packet one-way delay: 197.875 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 222.00 Mbit/s

95th percentile per-packet one-way delay: 316.375 ms

Loss rate: 7.71%

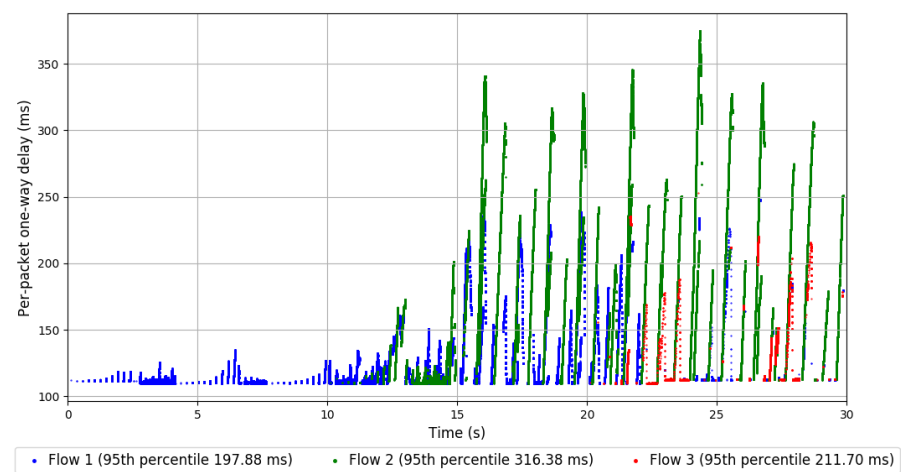
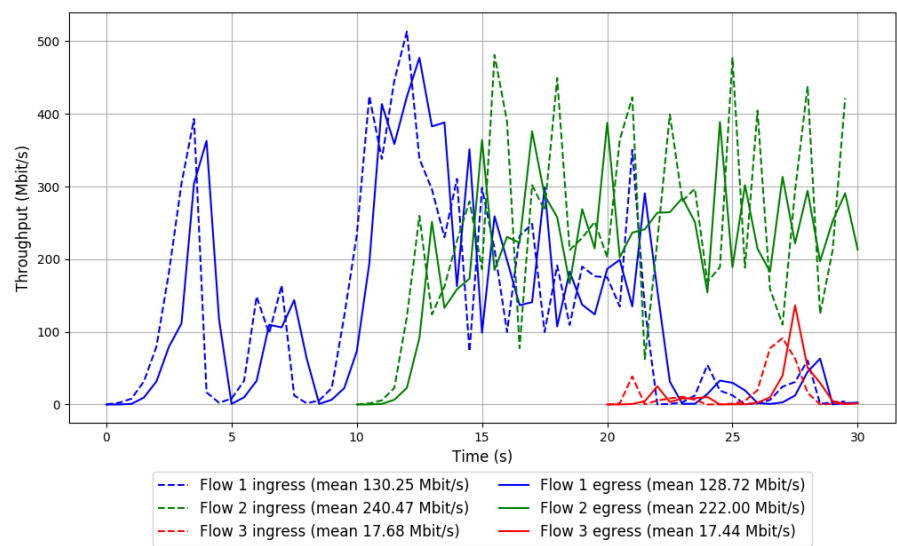
-- Flow 3:

Average throughput: 17.44 Mbit/s

95th percentile per-packet one-way delay: 211.696 ms

Loss rate: 3.57%

Run 10: Report of Verus — Data Link

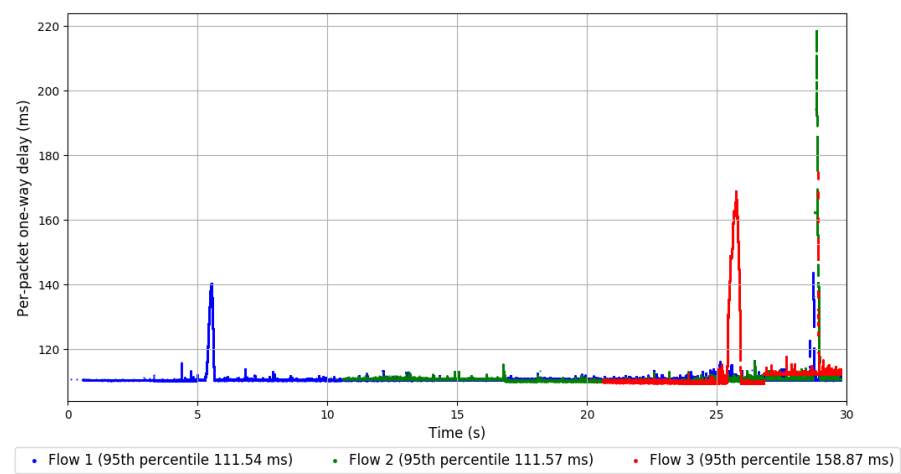
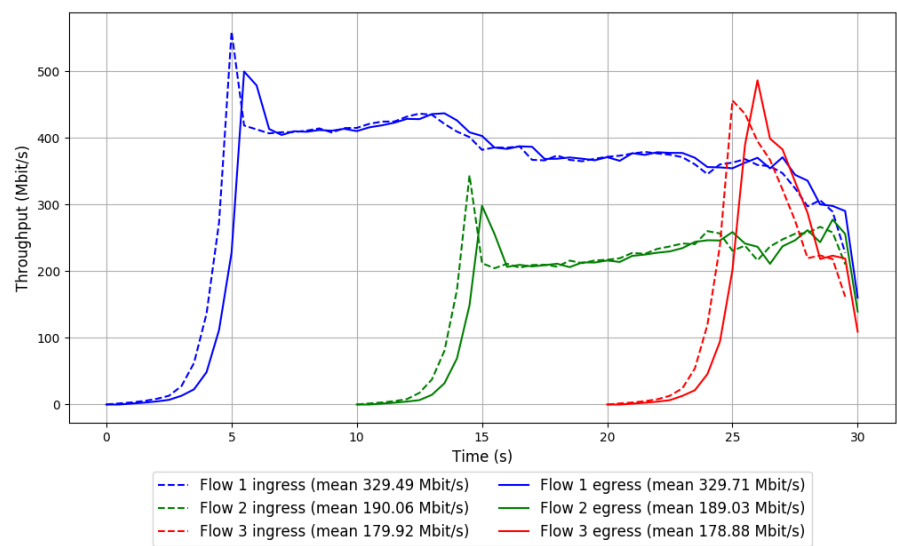


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-18 23:43:16
End at: 2018-06-18 23:43:46
Local clock offset: -0.0 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-19 05:36:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 512.89 Mbit/s
95th percentile per-packet one-way delay: 112.705 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 329.71 Mbit/s
95th percentile per-packet one-way delay: 111.538 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 189.03 Mbit/s
95th percentile per-packet one-way delay: 111.572 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 178.88 Mbit/s
95th percentile per-packet one-way delay: 158.867 ms
Loss rate: 2.90%

Run 1: Report of PCC-Vivace — Data Link

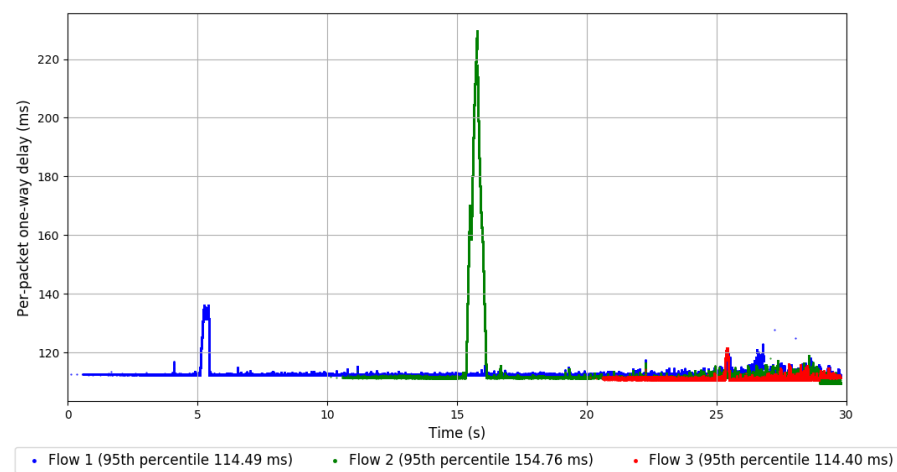
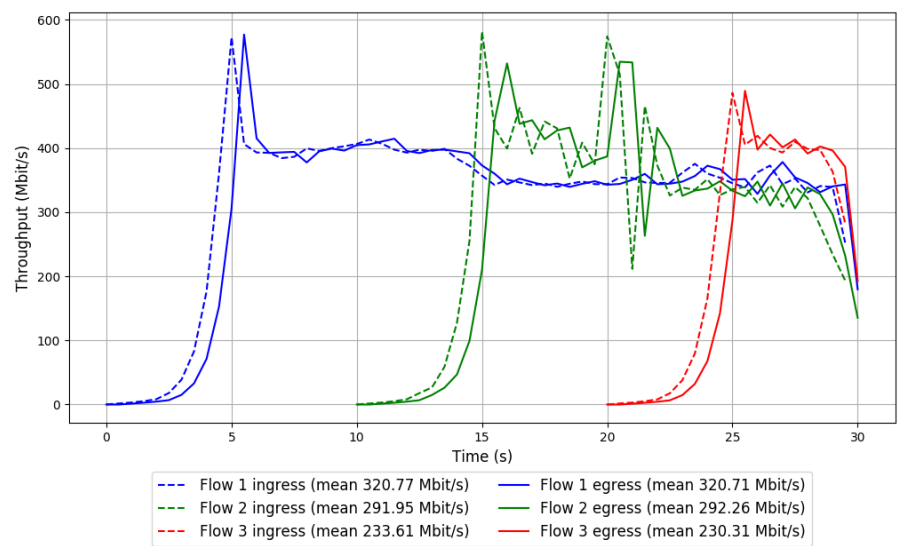


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 00:07:34
End at: 2018-06-19 00:08:04
Local clock offset: -0.146 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-19 05:38:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 589.09 Mbit/s
95th percentile per-packet one-way delay: 115.391 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 320.71 Mbit/s
95th percentile per-packet one-way delay: 114.492 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 292.26 Mbit/s
95th percentile per-packet one-way delay: 154.759 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 230.31 Mbit/s
95th percentile per-packet one-way delay: 114.398 ms
Loss rate: 3.68%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 00:31:49

End at: 2018-06-19 00:32:19

Local clock offset: 0.312 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-06-19 05:38:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 600.34 Mbit/s

95th percentile per-packet one-way delay: 114.264 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 347.97 Mbit/s

95th percentile per-packet one-way delay: 114.105 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 318.41 Mbit/s

95th percentile per-packet one-way delay: 116.047 ms

Loss rate: 0.71%

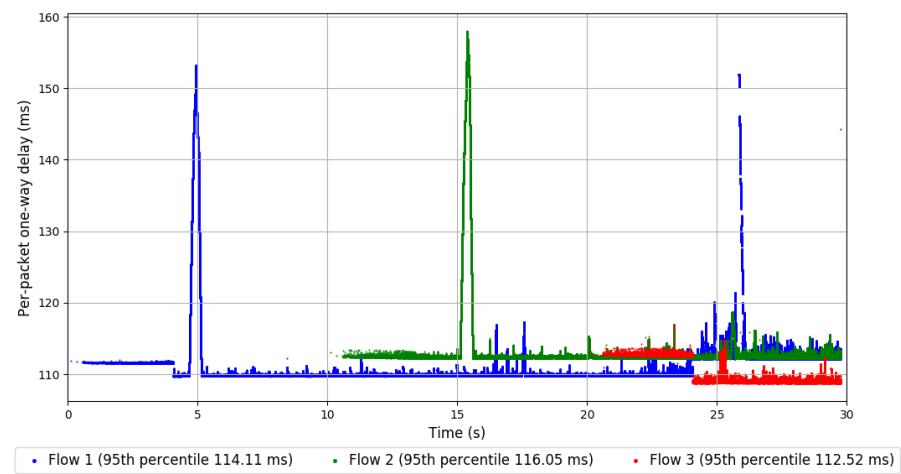
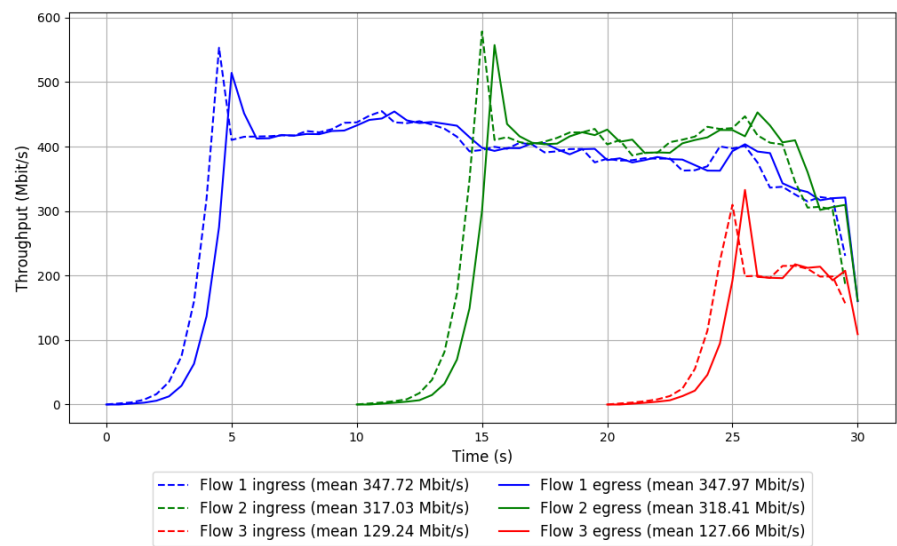
-- Flow 3:

Average throughput: 127.66 Mbit/s

95th percentile per-packet one-way delay: 112.519 ms

Loss rate: 3.50%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 00:56:07

End at: 2018-06-19 00:56:37

Local clock offset: 0.441 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-19 05:38:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 475.34 Mbit/s

95th percentile per-packet one-way delay: 113.089 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 323.62 Mbit/s

95th percentile per-packet one-way delay: 113.166 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 192.20 Mbit/s

95th percentile per-packet one-way delay: 112.748 ms

Loss rate: 1.48%

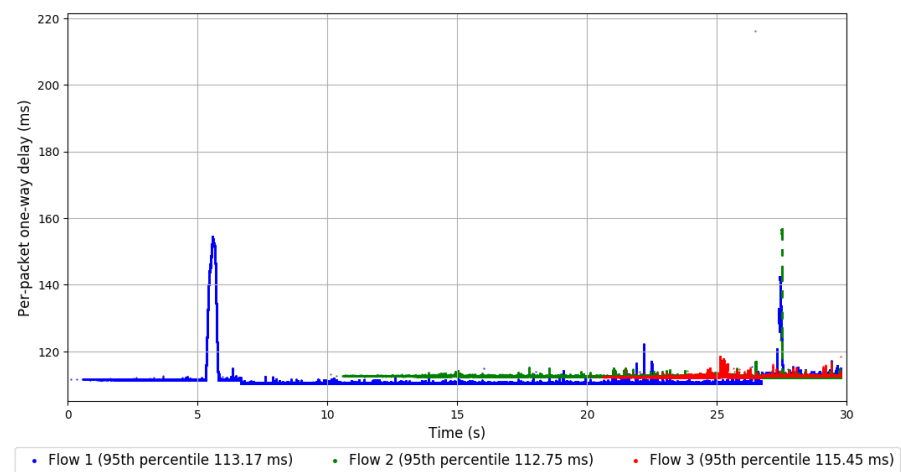
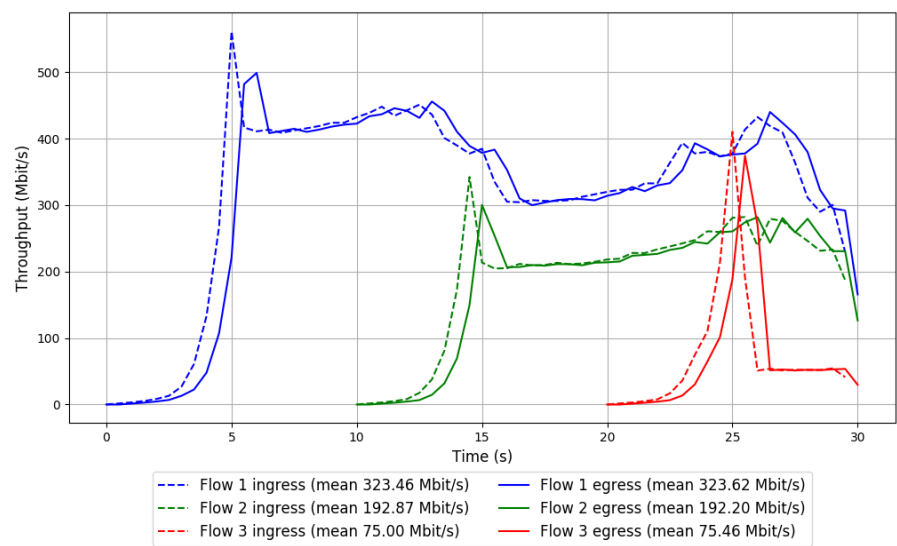
-- Flow 3:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 115.455 ms

Loss rate: 1.61%

Run 4: Report of PCC-Vivace — Data Link

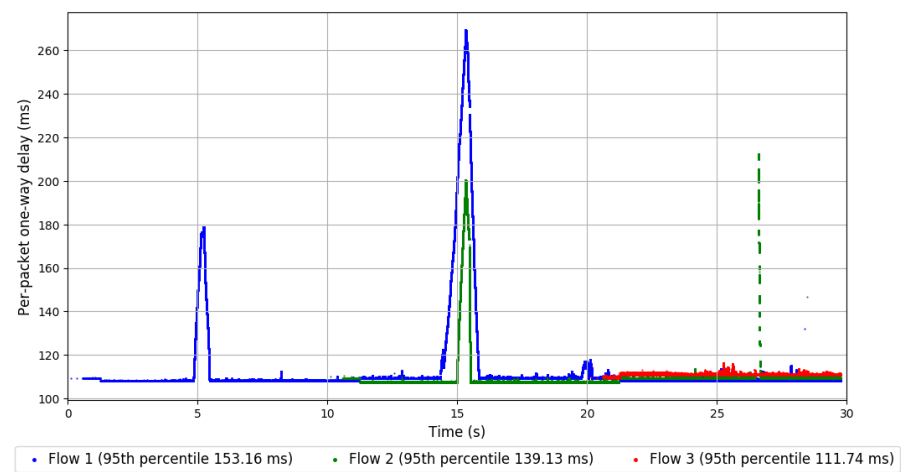
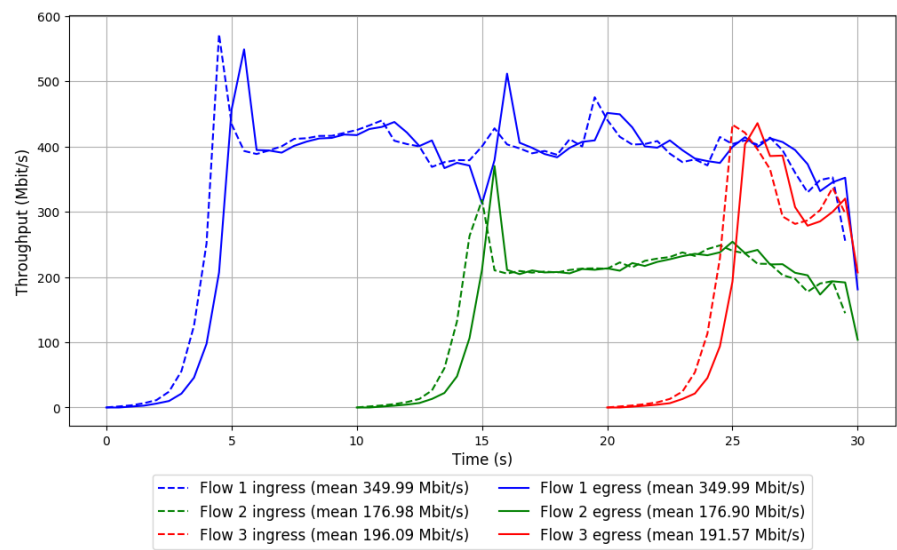


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 01:20:32
End at: 2018-06-19 01:21:02
Local clock offset: -0.878 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-19 05:39:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 529.38 Mbit/s
95th percentile per-packet one-way delay: 141.635 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 349.99 Mbit/s
95th percentile per-packet one-way delay: 153.162 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 176.90 Mbit/s
95th percentile per-packet one-way delay: 139.130 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 191.57 Mbit/s
95th percentile per-packet one-way delay: 111.740 ms
Loss rate: 4.52%

Run 5: Report of PCC-Vivace — Data Link

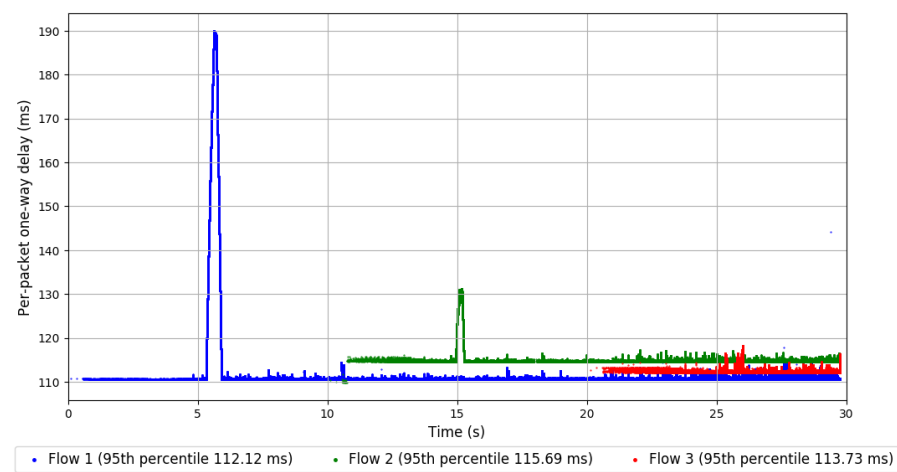
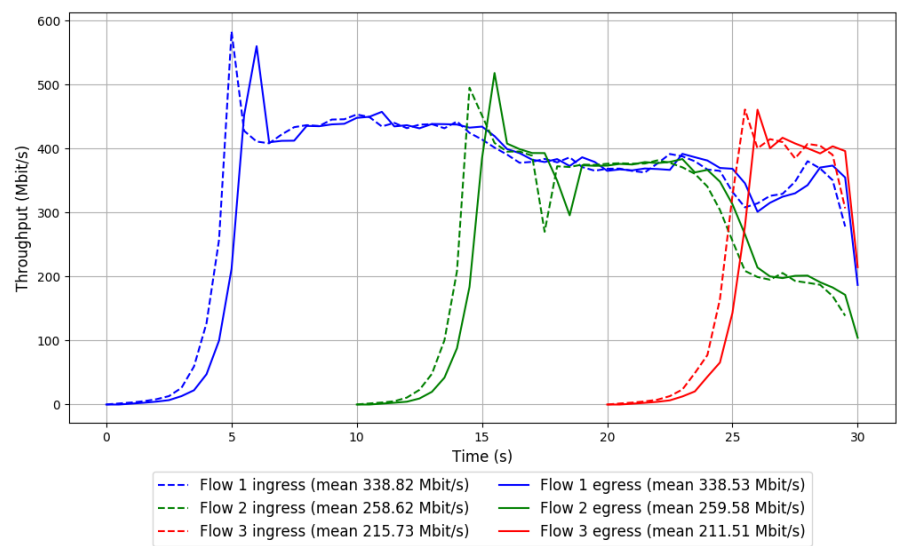


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 01:44:33
End at: 2018-06-19 01:45:03
Local clock offset: 0.73 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-19 05:40:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 579.19 Mbit/s
95th percentile per-packet one-way delay: 114.965 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 338.53 Mbit/s
95th percentile per-packet one-way delay: 112.116 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 259.58 Mbit/s
95th percentile per-packet one-way delay: 115.690 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 211.51 Mbit/s
95th percentile per-packet one-way delay: 113.726 ms
Loss rate: 4.20%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 02:08:21

End at: 2018-06-19 02:08:51

Local clock offset: -0.025 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-06-19 05:41:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 604.52 Mbit/s

95th percentile per-packet one-way delay: 116.692 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 350.60 Mbit/s

95th percentile per-packet one-way delay: 117.686 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 287.81 Mbit/s

95th percentile per-packet one-way delay: 113.236 ms

Loss rate: 1.56%

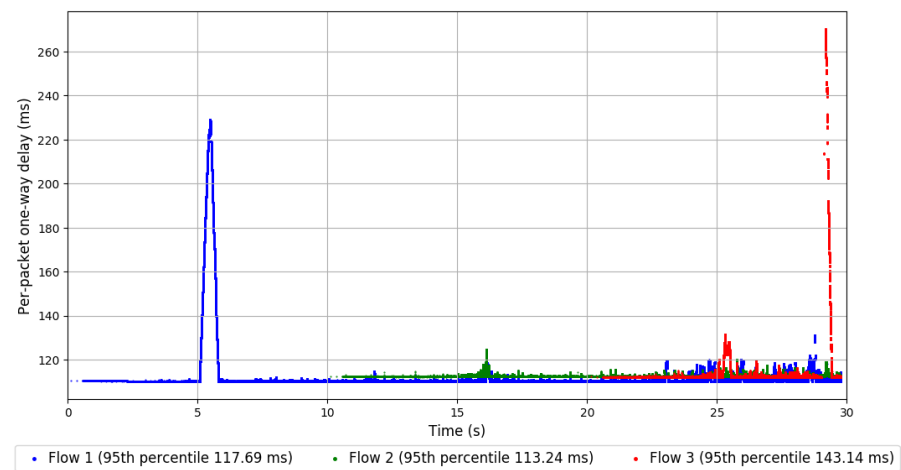
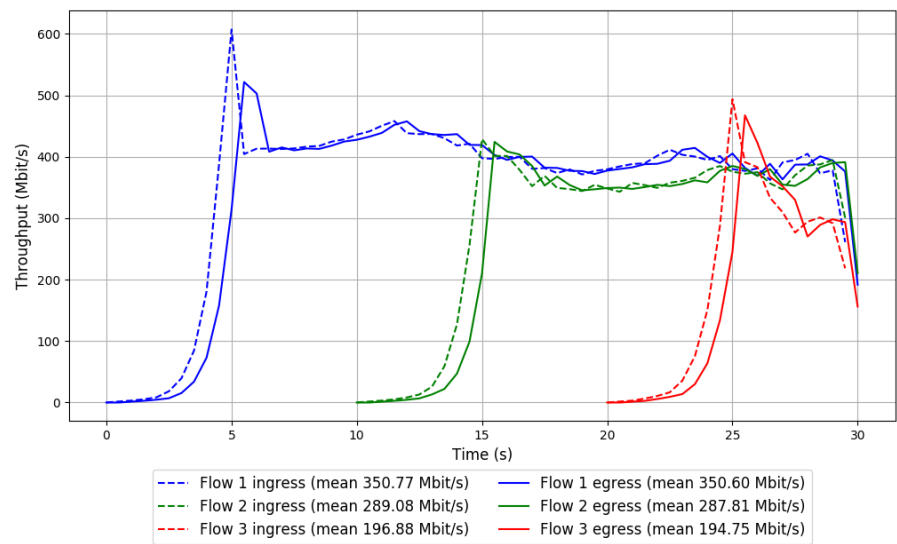
-- Flow 3:

Average throughput: 194.75 Mbit/s

95th percentile per-packet one-way delay: 143.141 ms

Loss rate: 3.33%

Run 7: Report of PCC-Vivace — Data Link

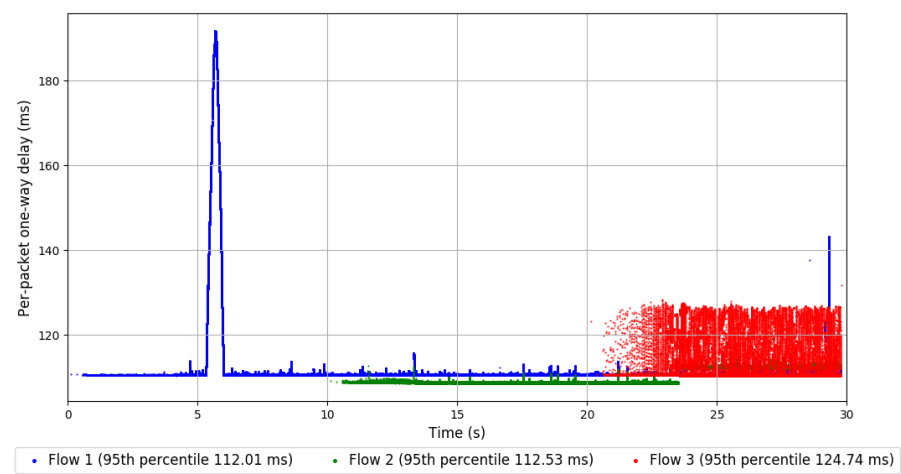
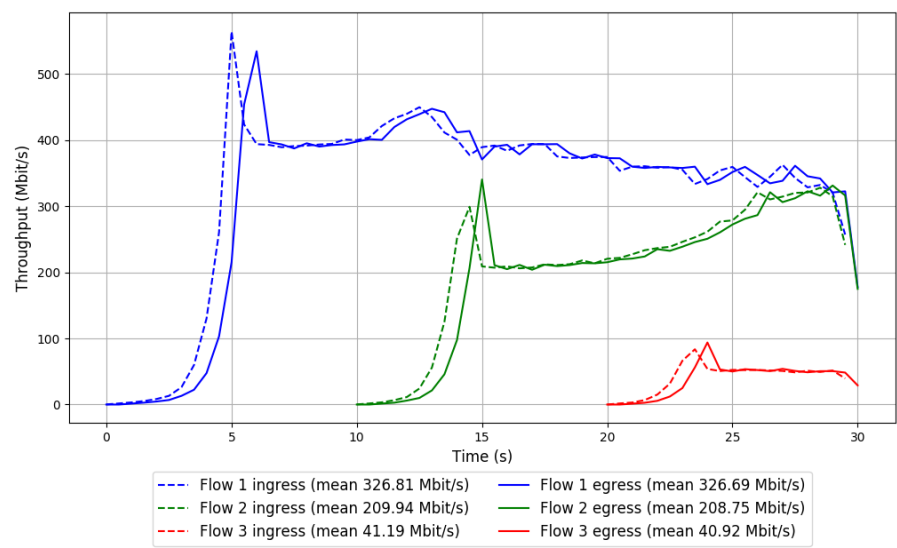


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 02:32:30
End at: 2018-06-19 02:33:00
Local clock offset: -0.31 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-19 05:41:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 478.20 Mbit/s
95th percentile per-packet one-way delay: 112.707 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 326.69 Mbit/s
95th percentile per-packet one-way delay: 112.009 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 208.75 Mbit/s
95th percentile per-packet one-way delay: 112.528 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 124.738 ms
Loss rate: 2.95%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 02:56:19

End at: 2018-06-19 02:56:49

Local clock offset: -1.411 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-06-19 05:41:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.65 Mbit/s

95th percentile per-packet one-way delay: 111.300 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 327.15 Mbit/s

95th percentile per-packet one-way delay: 110.877 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 181.76 Mbit/s

95th percentile per-packet one-way delay: 111.218 ms

Loss rate: 1.32%

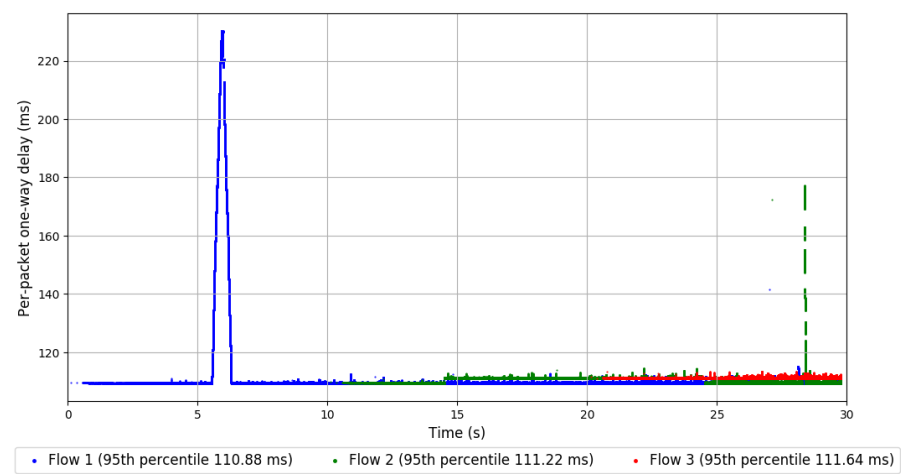
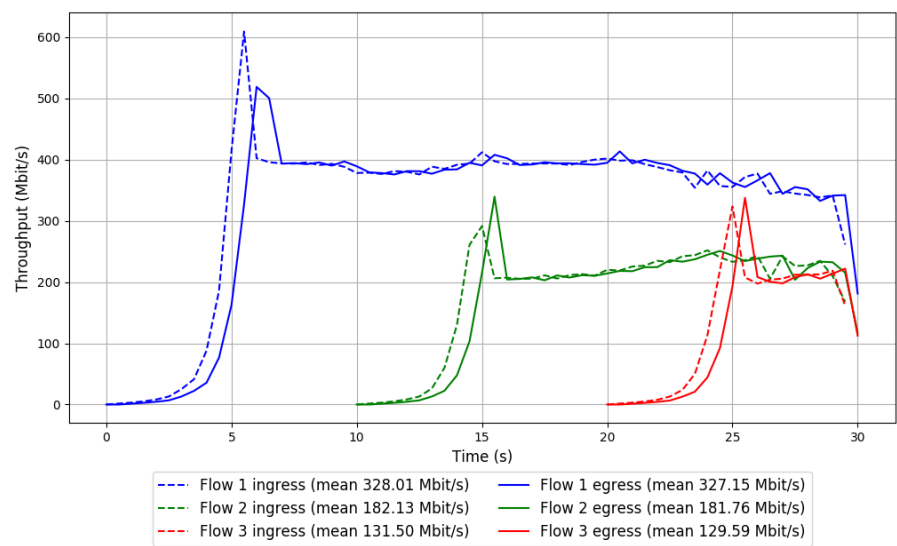
-- Flow 3:

Average throughput: 129.59 Mbit/s

95th percentile per-packet one-way delay: 111.639 ms

Loss rate: 3.69%

Run 9: Report of PCC-Vivace — Data Link

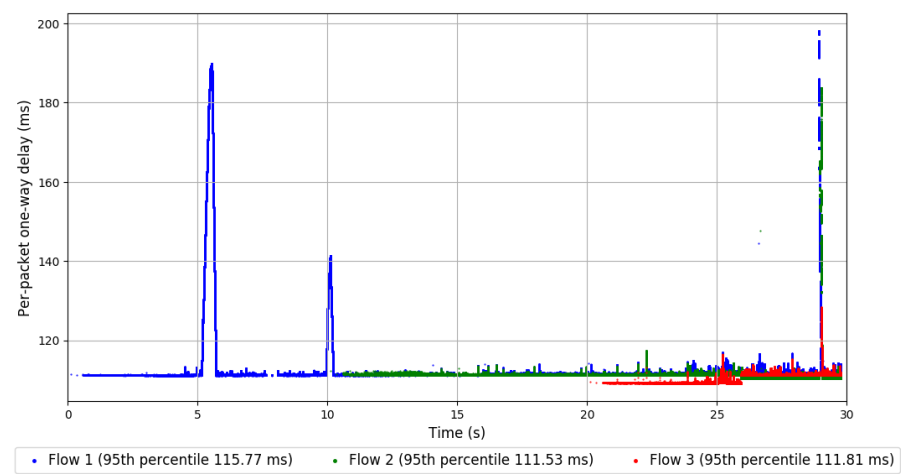
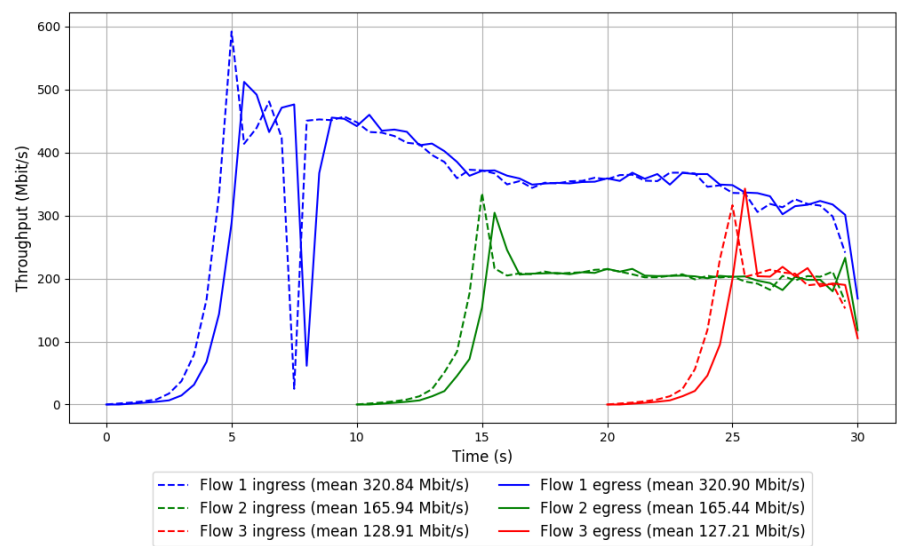


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 03:20:27
End at: 2018-06-19 03:20:57
Local clock offset: -1.247 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-19 05:41:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 471.84 Mbit/s
95th percentile per-packet one-way delay: 112.848 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 320.90 Mbit/s
95th percentile per-packet one-way delay: 115.774 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 165.44 Mbit/s
95th percentile per-packet one-way delay: 111.532 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 127.21 Mbit/s
95th percentile per-packet one-way delay: 111.805 ms
Loss rate: 3.56%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-18 23:57:08

End at: 2018-06-18 23:57:38

Local clock offset: -1.053 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 113.403 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 110.525 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 113.449 ms

Loss rate: 1.60%

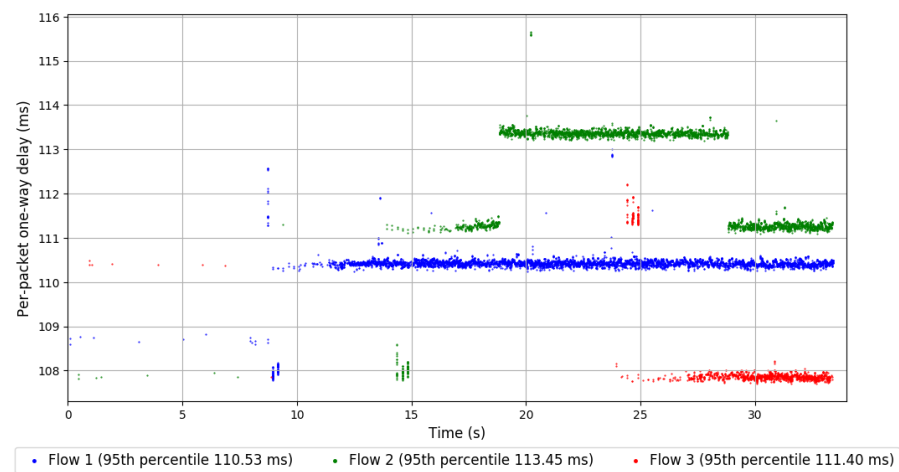
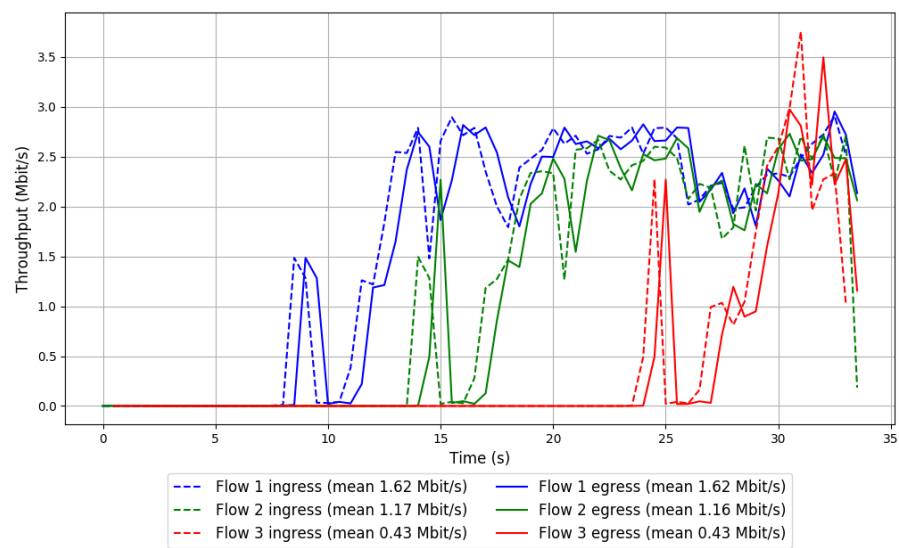
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 111.396 ms

Loss rate: 0.96%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-19 00:21:37

End at: 2018-06-19 00:22:07

Local clock offset: -1.125 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 111.524 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 111.095 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 111.559 ms

Loss rate: 1.24%

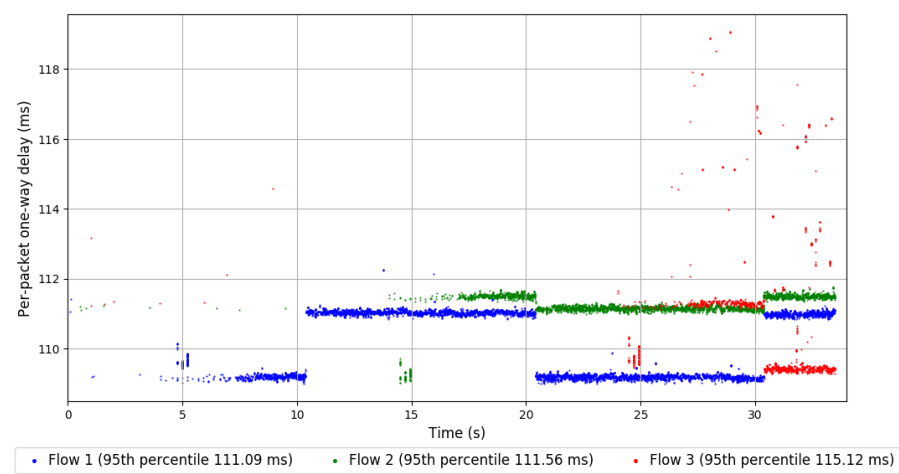
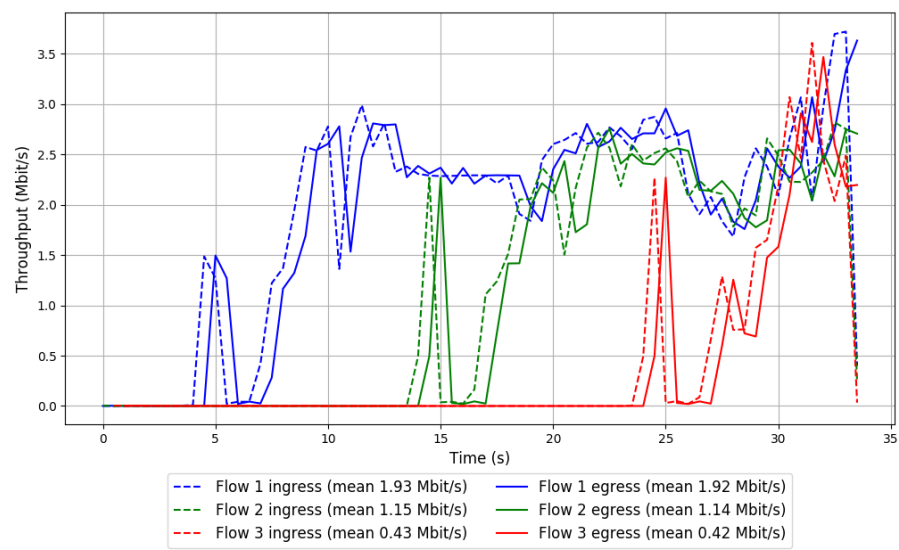
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 115.119 ms

Loss rate: 2.45%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-19 00:45:46

End at: 2018-06-19 00:46:16

Local clock offset: 0.253 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

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

Loss rate: 1.23%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 112.367 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 1.11 Mbit/s

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

Loss rate: 1.70%

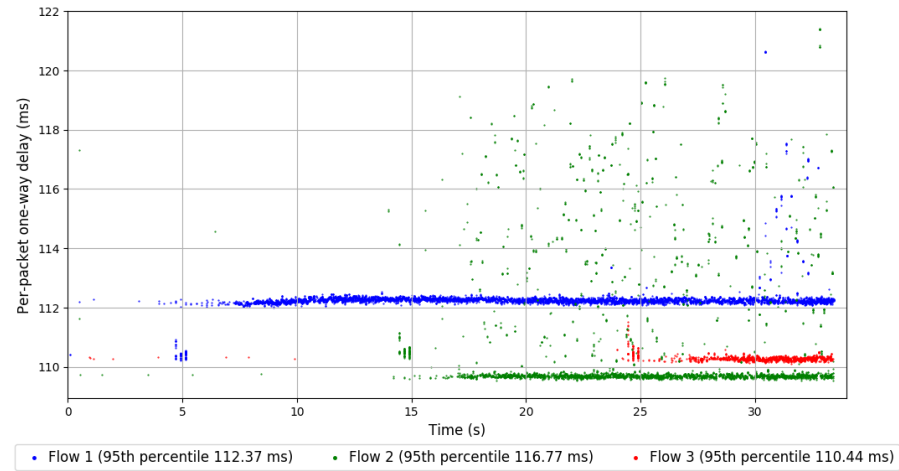
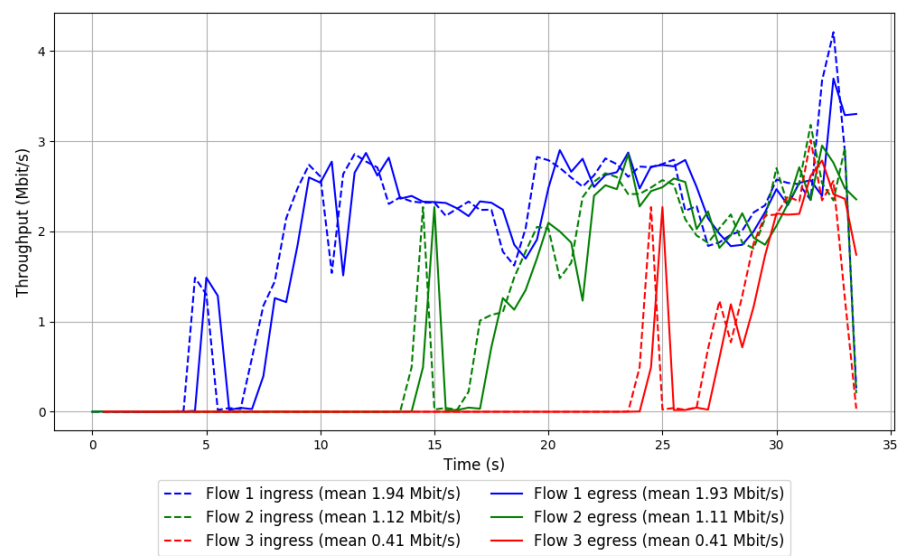
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 110.440 ms

Loss rate: 1.01%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-19 01:09:58

End at: 2018-06-19 01:10:28

Local clock offset: 0.316 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 111.735 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 110.329 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 111.829 ms

Loss rate: 1.30%

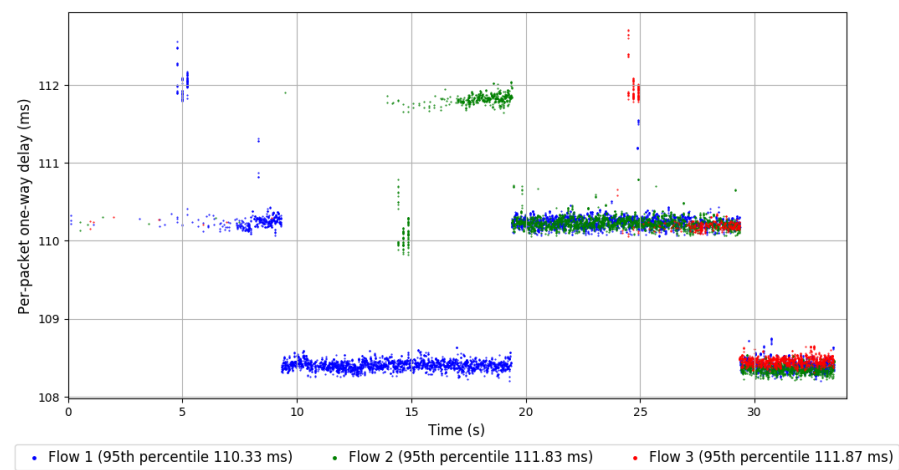
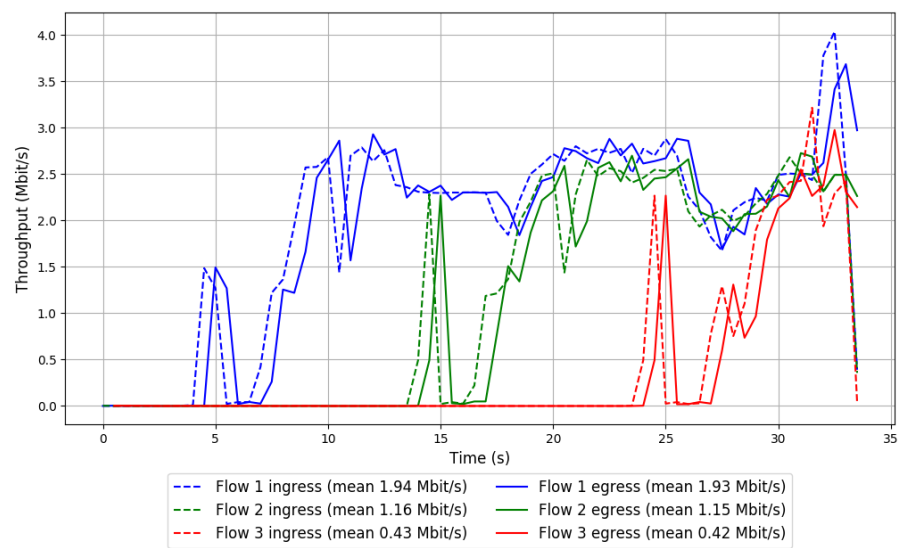
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 111.868 ms

Loss rate: 2.42%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-19 01:34:21

End at: 2018-06-19 01:34:51

Local clock offset: -0.606 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 111.646 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 111.467 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 111.689 ms

Loss rate: 1.29%

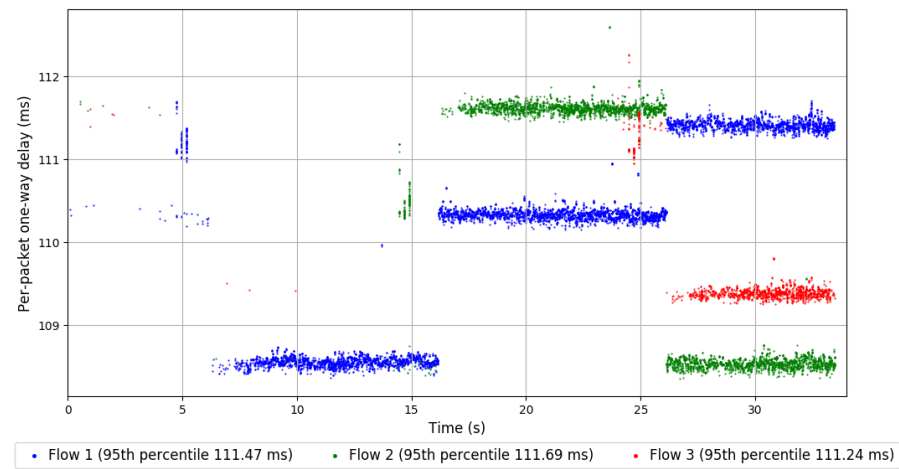
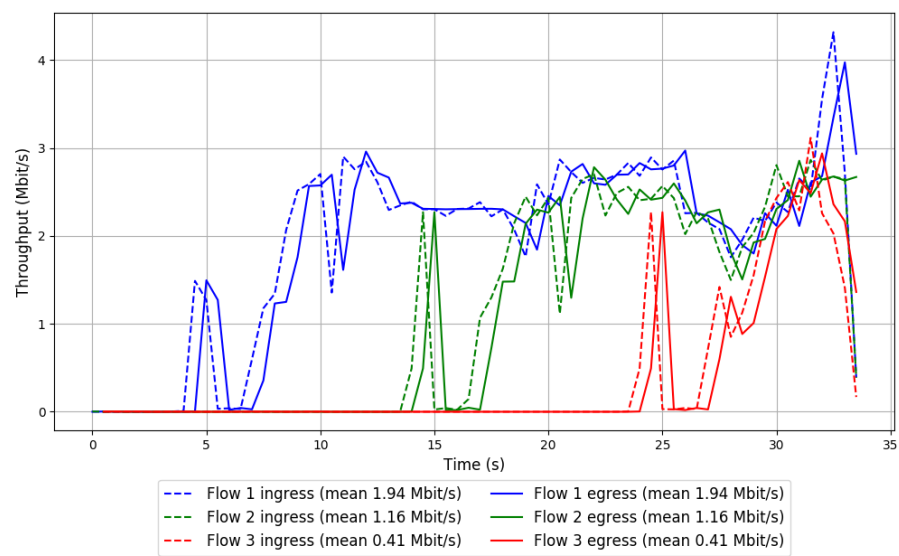
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 111.236 ms

Loss rate: 2.11%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-19 01:58:16

End at: 2018-06-19 01:58:46

Local clock offset: 0.284 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 120.743 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 122.541 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 112.567 ms

Loss rate: 1.45%

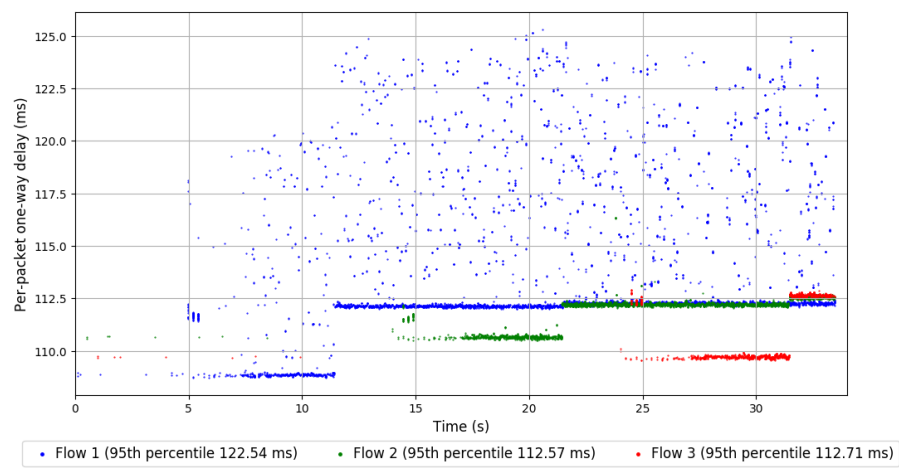
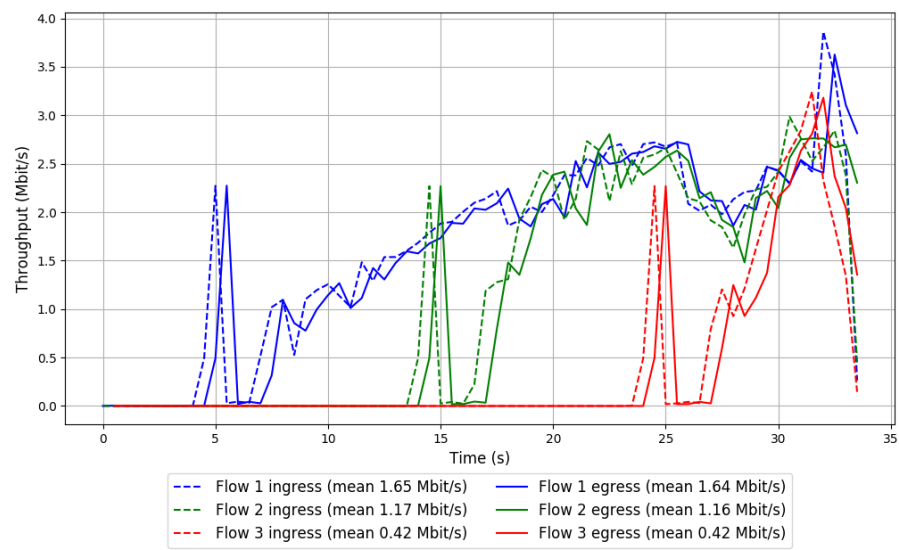
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 112.713 ms

Loss rate: 1.81%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-19 02:22:26

End at: 2018-06-19 02:22:56

Local clock offset: 1.003 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 114.101 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 113.678 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 113.525 ms

Loss rate: 1.50%

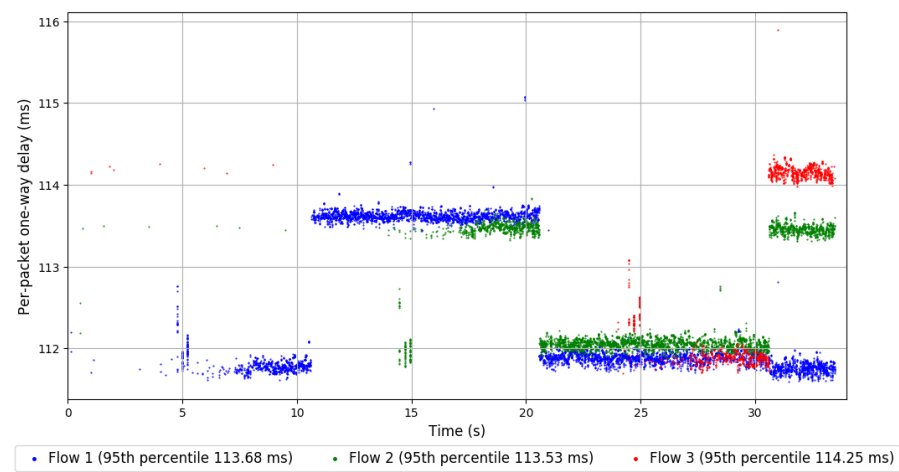
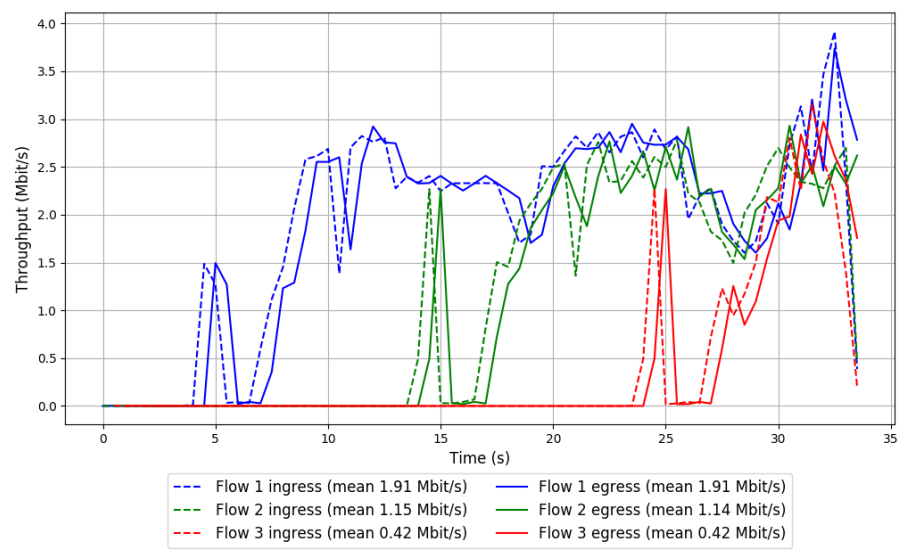
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 114.252 ms

Loss rate: 1.03%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-19 02:46:16

End at: 2018-06-19 02:46:46

Local clock offset: -0.066 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 113.826 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 113.846 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 109.777 ms

Loss rate: 1.37%

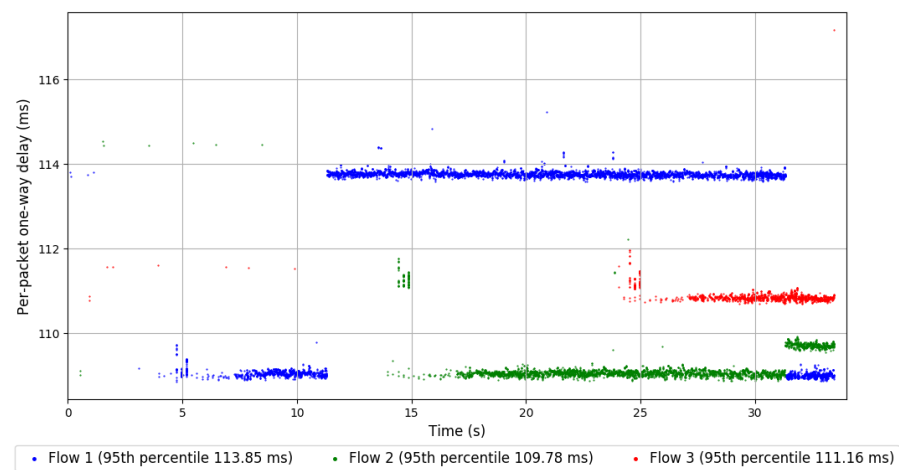
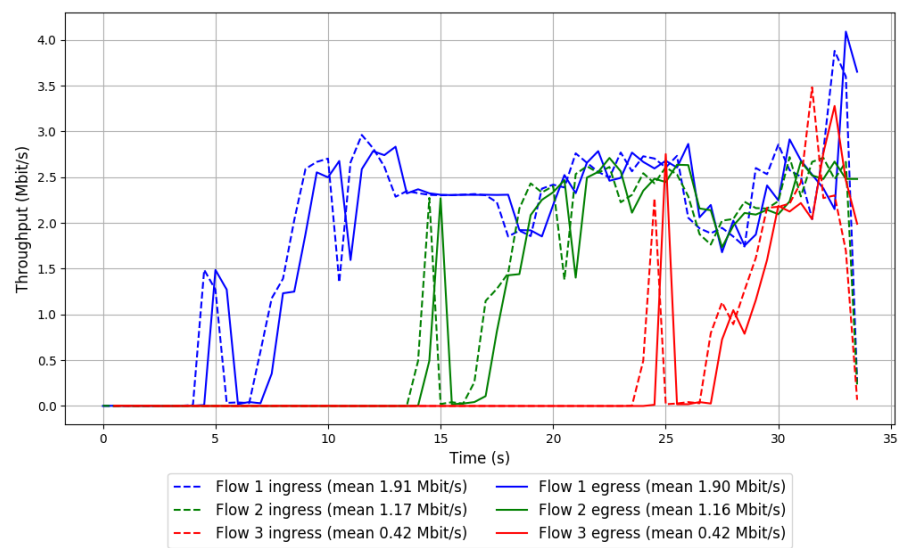
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 111.159 ms

Loss rate: 0.53%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-19 03:10:02

End at: 2018-06-19 03:10:32

Local clock offset: -0.037 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-06-19 05:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 115.130 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 112.360 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 112.079 ms

Loss rate: 1.36%

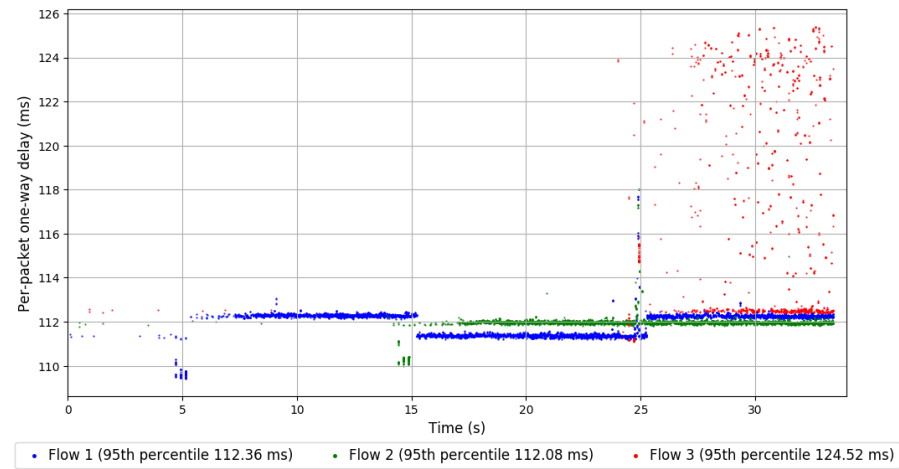
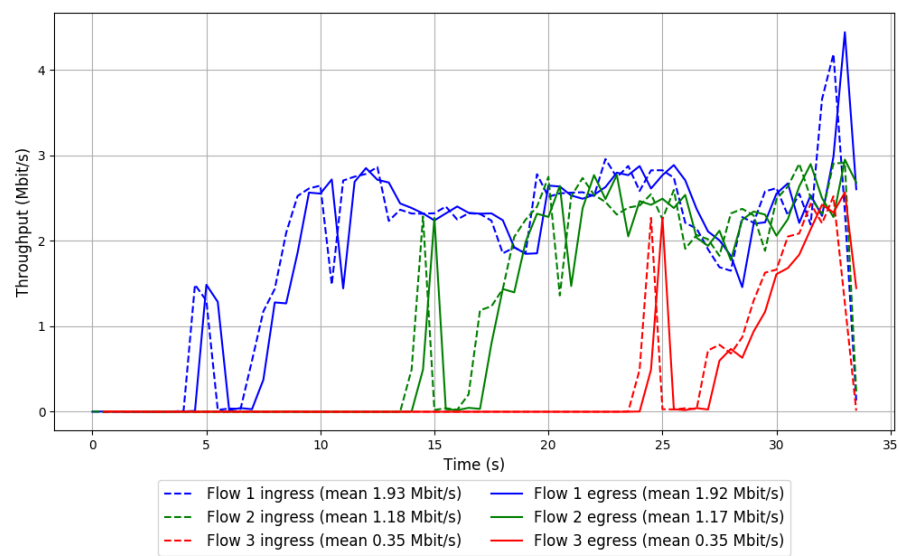
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 124.520 ms

Loss rate: 0.58%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 03:34:16
End at: 2018-06-19 03:34:46
Local clock offset: 0.006 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-19 05:41:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 112.754 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 112.621 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 112.402 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 112.872 ms
Loss rate: 4.34%

Run 10: Report of WebRTC media — Data Link

