

Pantheon Report

Generated at 2018-06-20 04:55:04 (UTC).

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

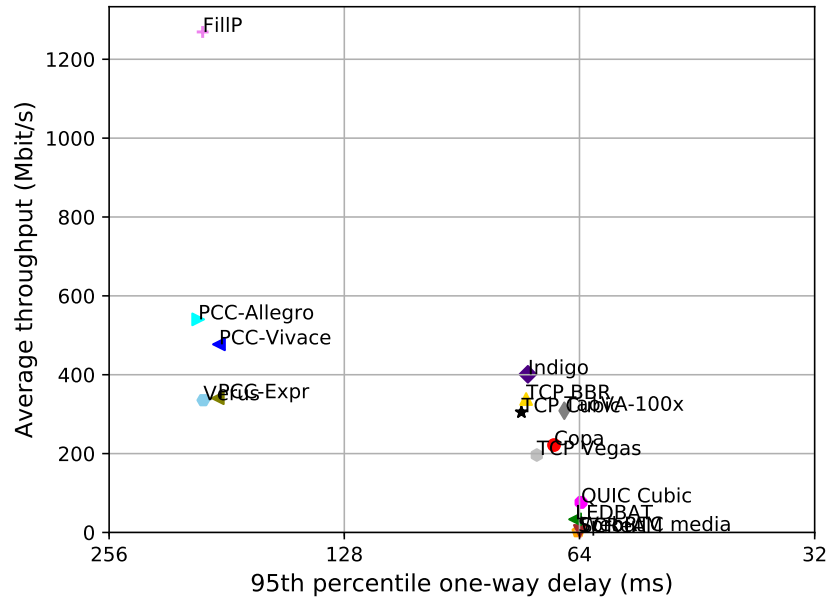
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

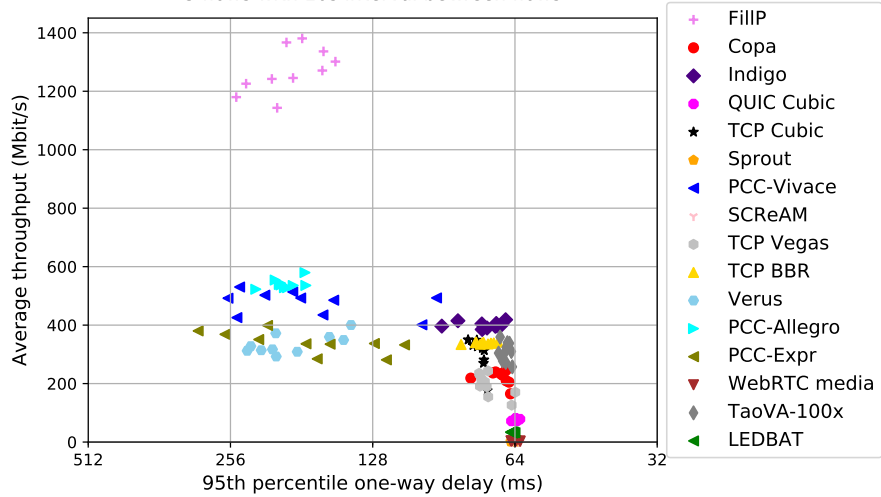
Git summary:

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



test from GCE Tokyo to GCE Iowa, 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	171.77	170.35	162.22	73.23	75.08	76.49	0.46	0.58	1.46
Copa	10	128.42	117.41	93.87	68.74	68.60	69.08	0.33	0.60	1.39
TCP Cubic	10	163.81	145.97	134.13	75.61	75.17	75.31	0.41	0.73	1.79
FillP	10	676.00	612.90	566.94	182.94	208.53	163.07	7.08	8.37	8.52
Indigo	10	208.85	204.46	162.69	73.01	75.12	76.26	0.41	0.62	1.49
LEDBAT	10	21.43	14.41	7.08	64.95	64.76	64.55	0.81	1.29	2.40
PCC-Allegro	10	483.53	74.68	22.50	199.54	181.61	172.30	2.88	2.51	4.44
PCC-Expr	10	192.47	182.98	81.10	167.41	149.26	82.00	1.17	3.44	2.10
QUIC Cubic	10	46.27	35.66	17.95	63.36	63.53	63.09	0.57	1.06	0.61
SCReAM	10	0.22	0.22	0.22	63.70	63.68	63.63	0.38	0.61	1.16
Sprout	10	1.04	1.50	0.73	64.23	64.21	63.99	0.92	0.65	1.51
TaoVA-100x	10	162.11	163.98	114.08	66.55	66.44	68.88	0.33	0.60	1.34
TCP Vegas	10	109.83	83.47	94.60	71.01	70.12	70.49	0.45	0.67	1.48
Verus	10	190.17	167.22	107.06	185.14	193.87	243.28	2.95	2.85	6.34
PCC-Vivace	10	266.46	244.62	147.64	176.29	153.76	125.95	1.26	1.62	2.65
WebRTC media	10	1.91	1.26	0.51	63.60	63.94	63.70	0.59	0.82	1.94

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 22:20:27

End at: 2018-06-19 22:20:57

Local clock offset: 0.642 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2018-06-20 02:29:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.84 Mbit/s

95th percentile per-packet one-way delay: 70.966 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 172.51 Mbit/s

95th percentile per-packet one-way delay: 68.913 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 168.26 Mbit/s

95th percentile per-packet one-way delay: 70.029 ms

Loss rate: 0.68%

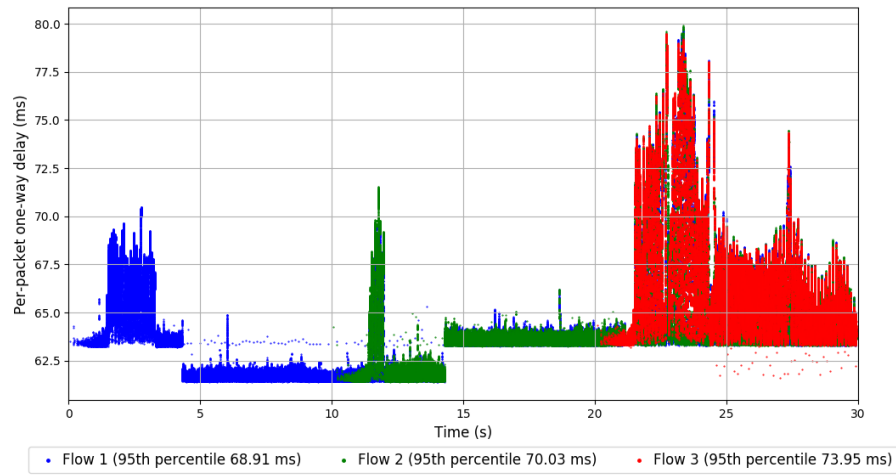
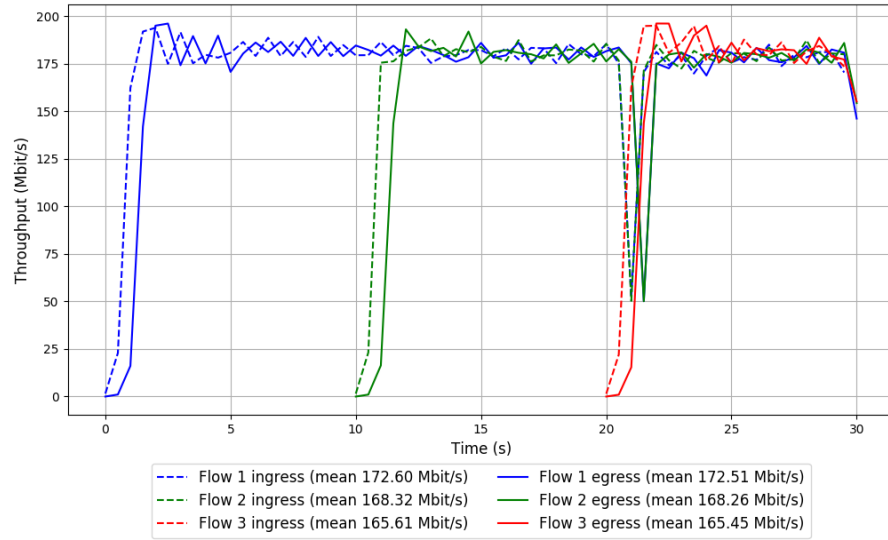
-- Flow 3:

Average throughput: 165.45 Mbit/s

95th percentile per-packet one-way delay: 73.947 ms

Loss rate: 1.39%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 22:43:54

End at: 2018-06-19 22:44:24

Local clock offset: 0.023 ms

Remote clock offset: 1.214 ms

Below is generated by plot.py at 2018-06-20 02:29:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.75 Mbit/s

95th percentile per-packet one-way delay: 83.208 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 169.20 Mbit/s

95th percentile per-packet one-way delay: 81.055 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 168.44 Mbit/s

95th percentile per-packet one-way delay: 83.708 ms

Loss rate: 0.00%

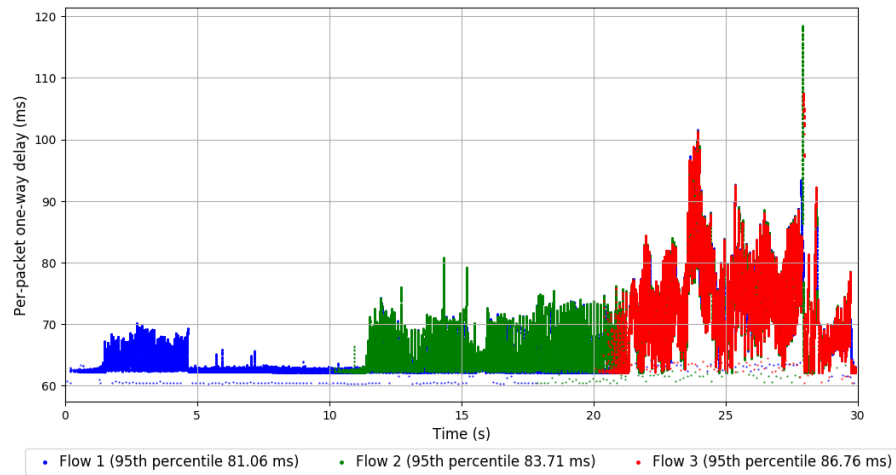
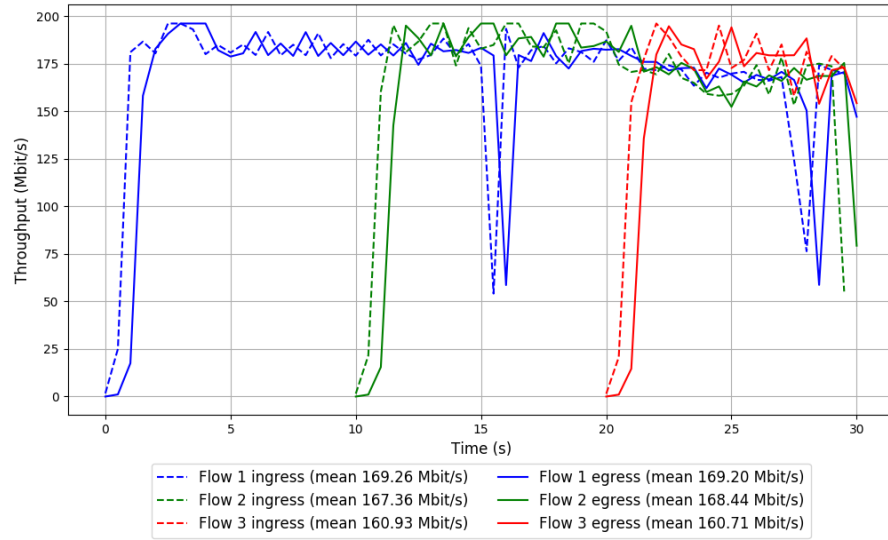
-- Flow 3:

Average throughput: 160.71 Mbit/s

95th percentile per-packet one-way delay: 86.758 ms

Loss rate: 1.41%

Run 2: Report of TCP BBR — Data Link

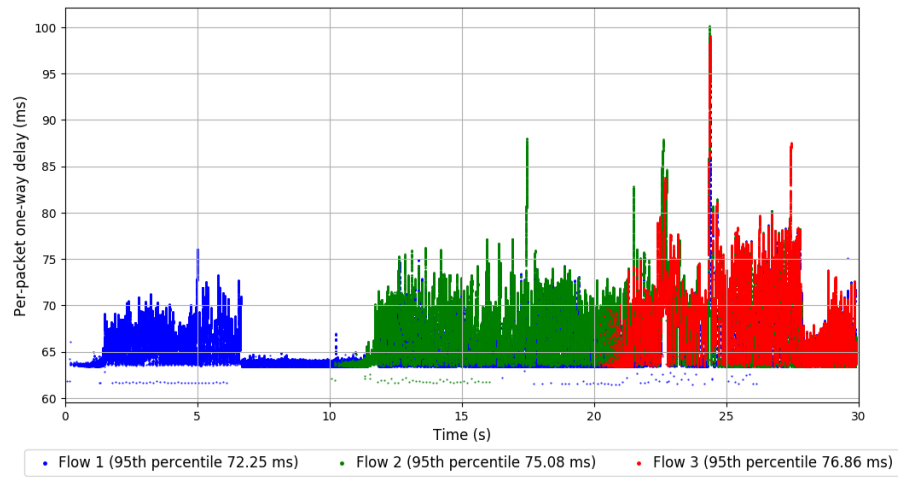
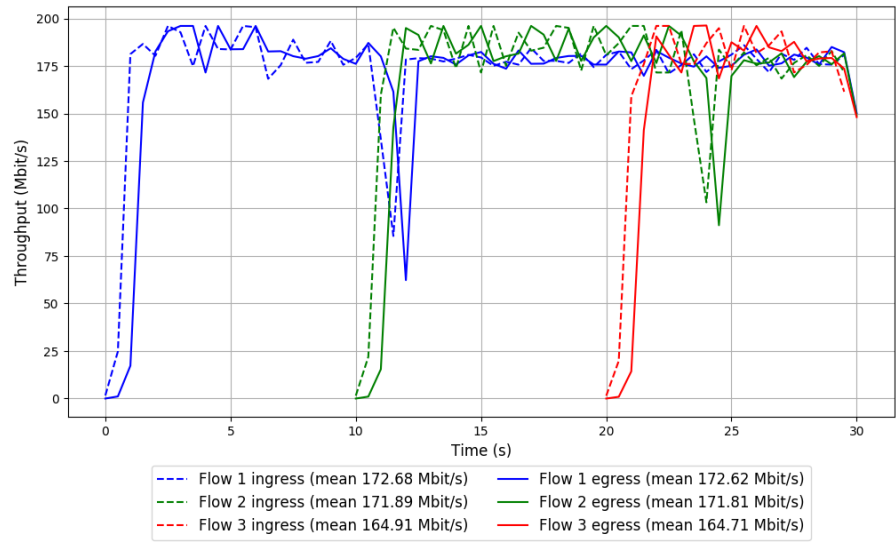


Run 3: Statistics of TCP BBR

Start at: 2018-06-19 23:07:16
End at: 2018-06-19 23:07:46
Local clock offset: -0.186 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-20 02:29:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.07 Mbit/s
95th percentile per-packet one-way delay: 74.632 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 172.62 Mbit/s
95th percentile per-packet one-way delay: 72.252 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 171.81 Mbit/s
95th percentile per-packet one-way delay: 75.075 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 164.71 Mbit/s
95th percentile per-packet one-way delay: 76.863 ms
Loss rate: 1.41%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 23:30:30

End at: 2018-06-19 23:31:00

Local clock offset: -0.105 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2018-06-20 02:29:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.26 Mbit/s

95th percentile per-packet one-way delay: 75.107 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 173.63 Mbit/s

95th percentile per-packet one-way delay: 73.783 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 166.22 Mbit/s

95th percentile per-packet one-way delay: 75.305 ms

Loss rate: 0.69%

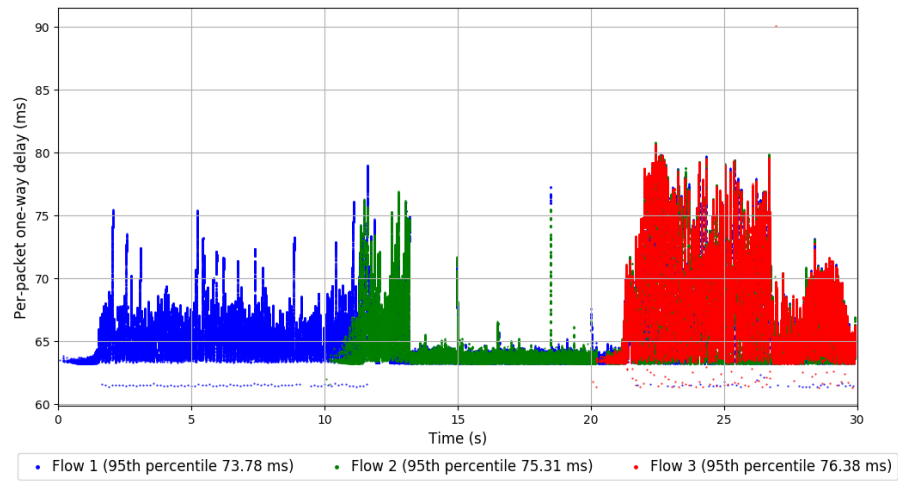
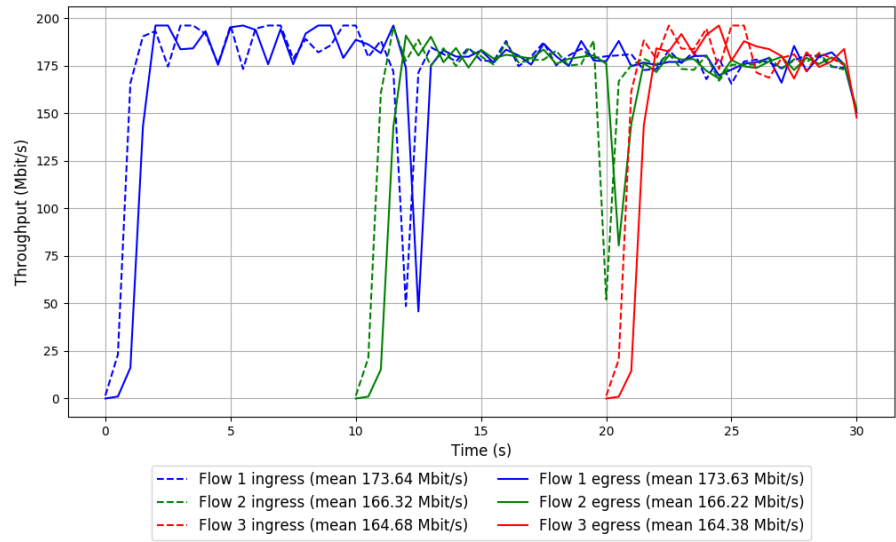
-- Flow 3:

Average throughput: 164.38 Mbit/s

95th percentile per-packet one-way delay: 76.382 ms

Loss rate: 1.49%

Run 4: Report of TCP BBR — Data Link

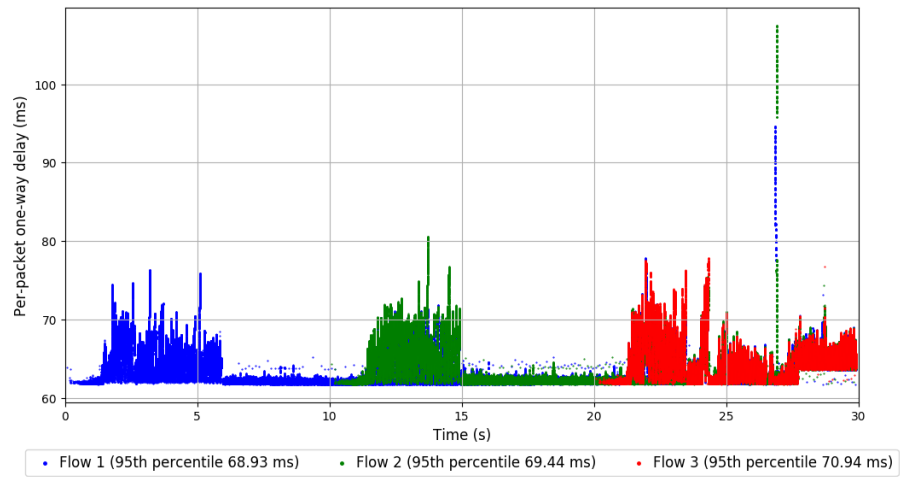
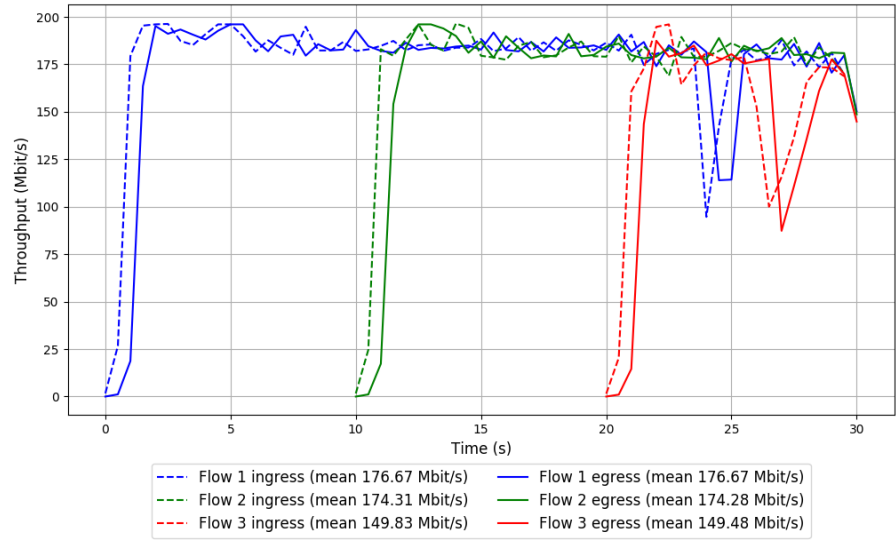


Run 5: Statistics of TCP BBR

Start at: 2018-06-19 23:54:04
End at: 2018-06-19 23:54:34
Local clock offset: -0.158 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-06-20 02:29:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.82 Mbit/s
95th percentile per-packet one-way delay: 69.453 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 176.67 Mbit/s
95th percentile per-packet one-way delay: 68.930 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 174.28 Mbit/s
95th percentile per-packet one-way delay: 69.435 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 149.48 Mbit/s
95th percentile per-packet one-way delay: 70.940 ms
Loss rate: 1.55%

Run 5: Report of TCP BBR — Data Link

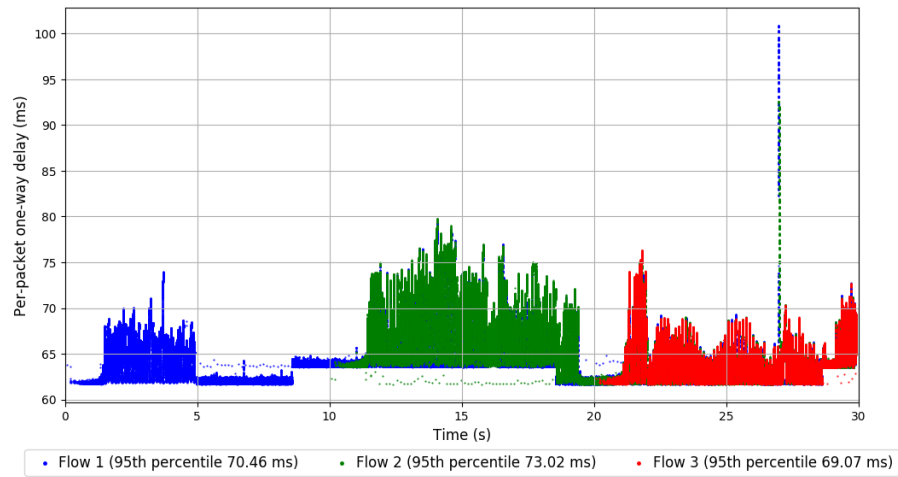
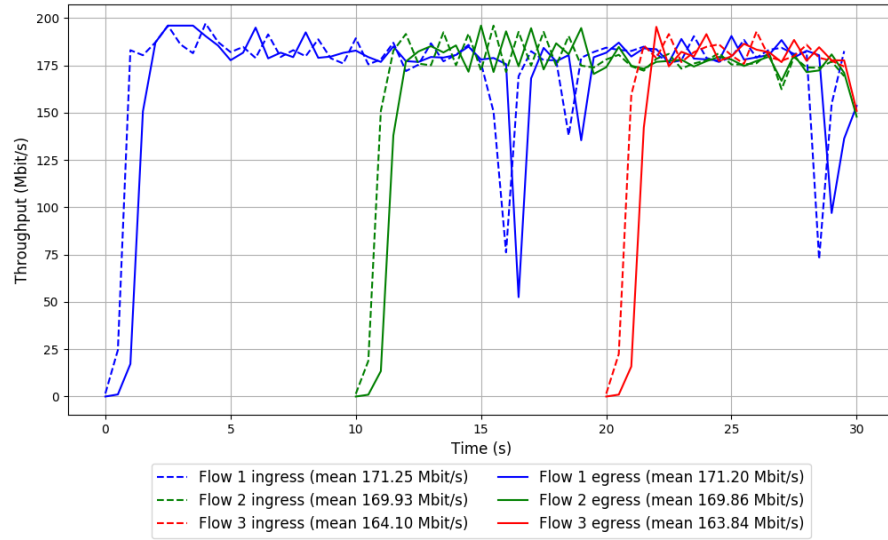


Run 6: Statistics of TCP BBR

Start at: 2018-06-20 00:17:43
End at: 2018-06-20 00:18:13
Local clock offset: -0.135 ms
Remote clock offset: -0.178 ms

Below is generated by plot.py at 2018-06-20 02:29:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 338.12 Mbit/s
95th percentile per-packet one-way delay: 71.961 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 171.20 Mbit/s
95th percentile per-packet one-way delay: 70.456 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 169.86 Mbit/s
95th percentile per-packet one-way delay: 73.018 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 163.84 Mbit/s
95th percentile per-packet one-way delay: 69.070 ms
Loss rate: 1.43%

Run 6: Report of TCP BBR — Data Link

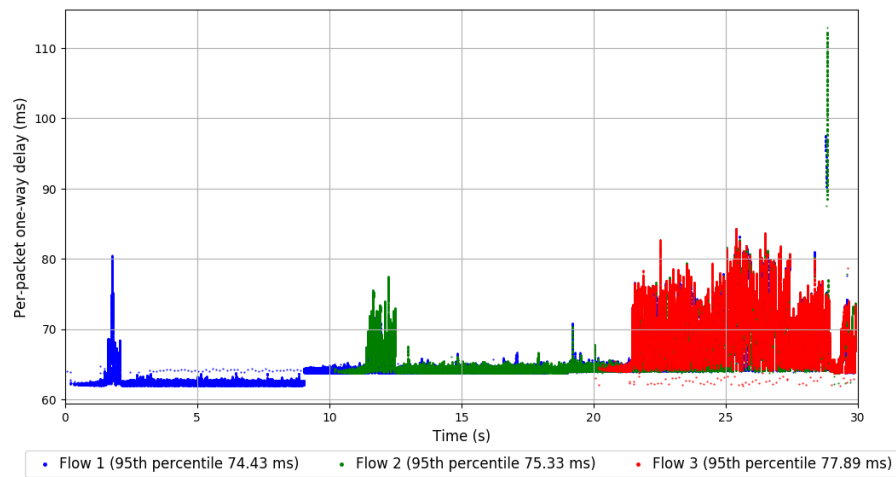
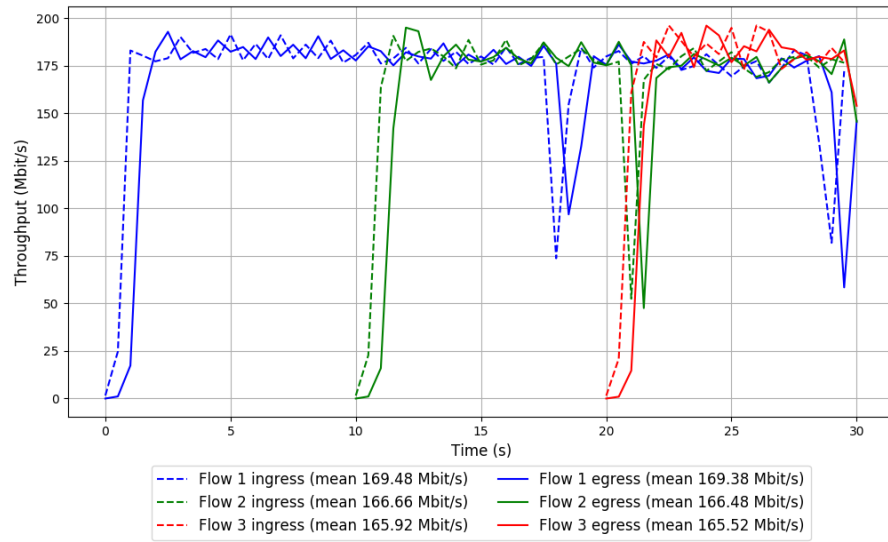


Run 7: Statistics of TCP BBR

Start at: 2018-06-20 00:40:43
End at: 2018-06-20 00:41:13
Local clock offset: -0.016 ms
Remote clock offset: -0.427 ms

Below is generated by plot.py at 2018-06-20 02:29:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.65 Mbit/s
95th percentile per-packet one-way delay: 75.772 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 169.38 Mbit/s
95th percentile per-packet one-way delay: 74.426 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 166.48 Mbit/s
95th percentile per-packet one-way delay: 75.332 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 165.52 Mbit/s
95th percentile per-packet one-way delay: 77.885 ms
Loss rate: 1.48%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-20 01:04:16

End at: 2018-06-20 01:04:46

Local clock offset: -0.022 ms

Remote clock offset: -1.13 ms

Below is generated by plot.py at 2018-06-20 02:29:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.18 Mbit/s

95th percentile per-packet one-way delay: 77.570 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 173.15 Mbit/s

95th percentile per-packet one-way delay: 76.410 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 168.34 Mbit/s

95th percentile per-packet one-way delay: 77.220 ms

Loss rate: 0.76%

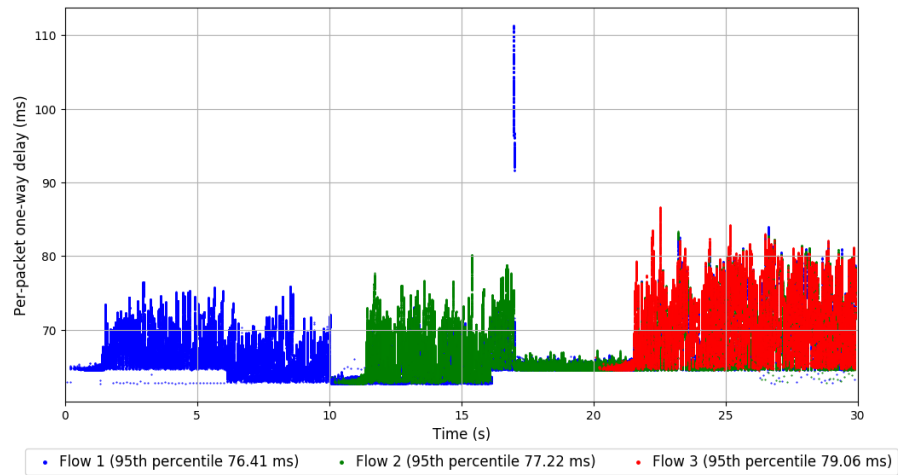
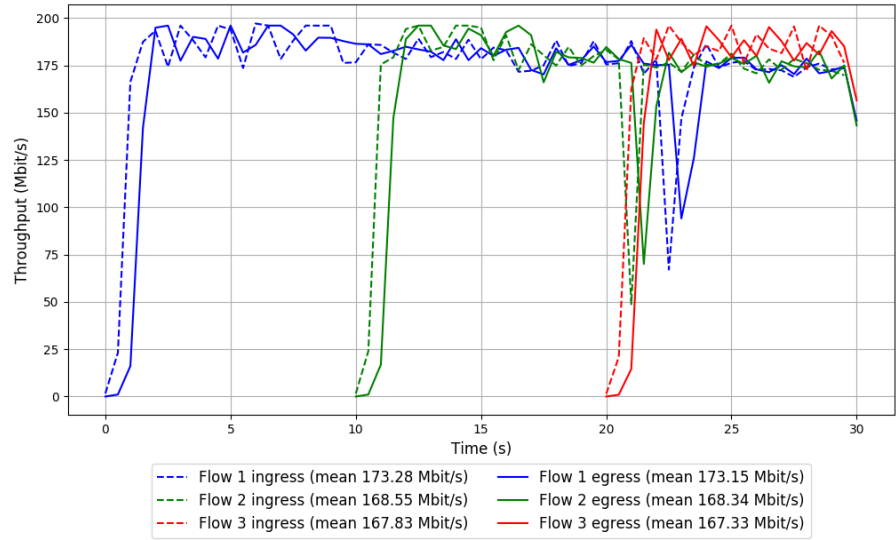
-- Flow 3:

Average throughput: 167.33 Mbit/s

95th percentile per-packet one-way delay: 79.060 ms

Loss rate: 1.58%

Run 8: Report of TCP BBR — Data Link

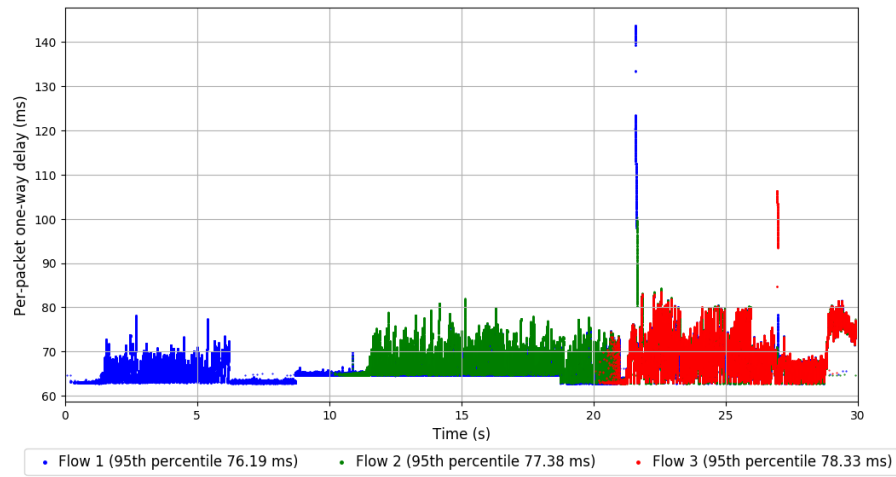
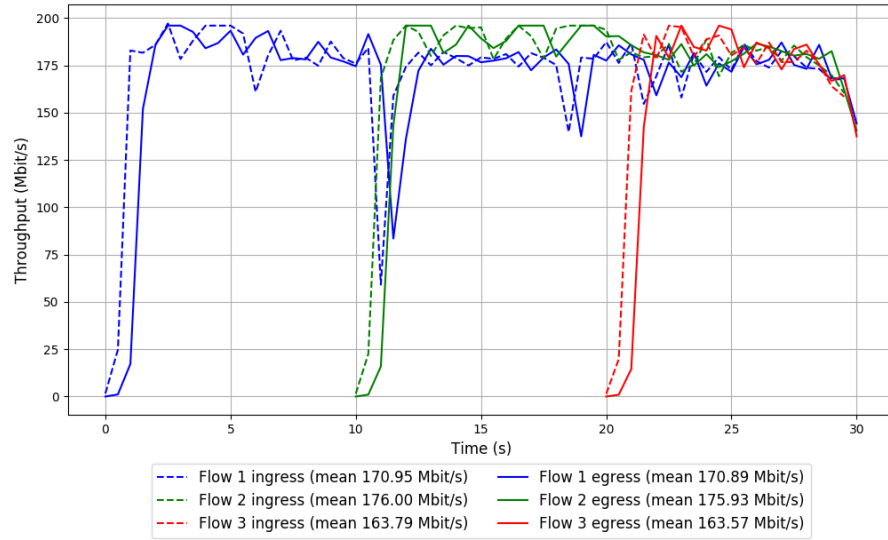


Run 9: Statistics of TCP BBR

Start at: 2018-06-20 01:27:43
End at: 2018-06-20 01:28:13
Local clock offset: 0.027 ms
Remote clock offset: -1.214 ms

Below is generated by plot.py at 2018-06-20 02:35:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.71 Mbit/s
95th percentile per-packet one-way delay: 77.334 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 170.89 Mbit/s
95th percentile per-packet one-way delay: 76.194 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 175.93 Mbit/s
95th percentile per-packet one-way delay: 77.379 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 163.57 Mbit/s
95th percentile per-packet one-way delay: 78.330 ms
Loss rate: 1.42%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-20 01:51:10

End at: 2018-06-20 01:51:40

Local clock offset: 0.035 ms

Remote clock offset: 1.372 ms

Below is generated by plot.py at 2018-06-20 02:35:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.57 Mbit/s

95th percentile per-packet one-way delay: 72.988 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 168.42 Mbit/s

95th percentile per-packet one-way delay: 69.878 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 173.87 Mbit/s

95th percentile per-packet one-way delay: 74.342 ms

Loss rate: 0.23%

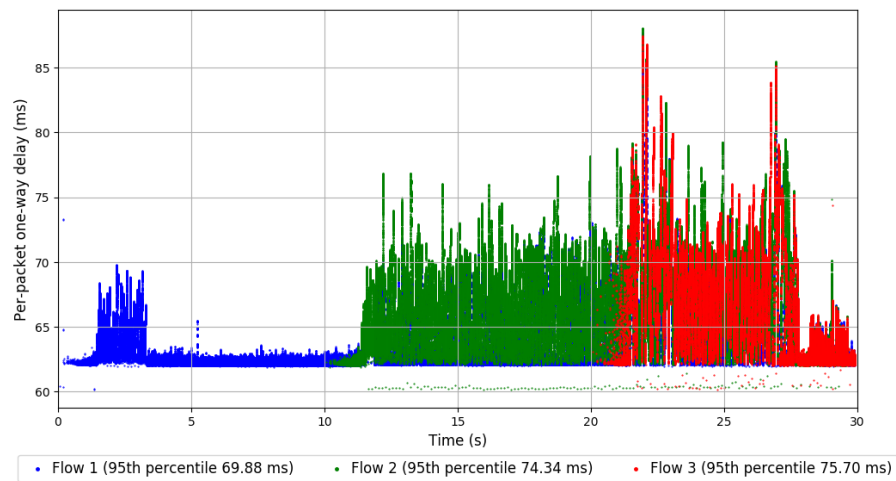
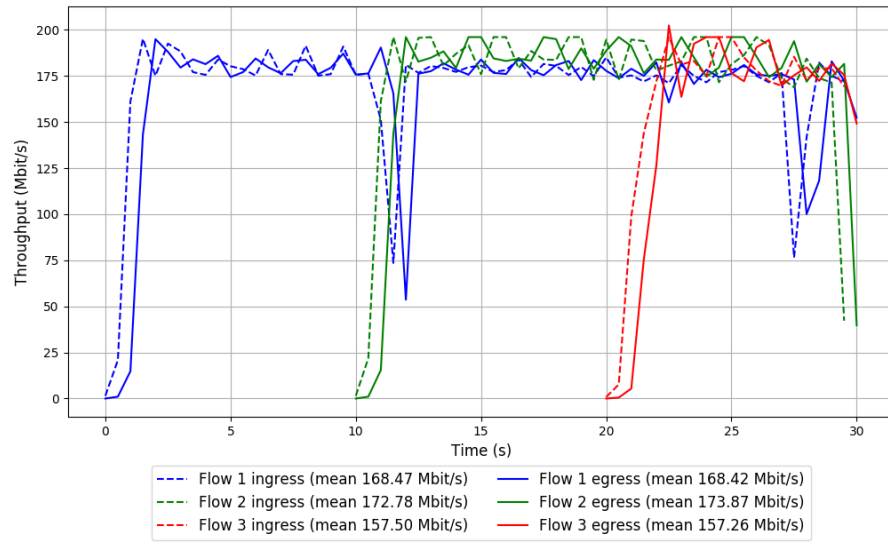
-- Flow 3:

Average throughput: 157.26 Mbit/s

95th percentile per-packet one-way delay: 75.699 ms

Loss rate: 1.44%

Run 10: Report of TCP BBR — Data Link

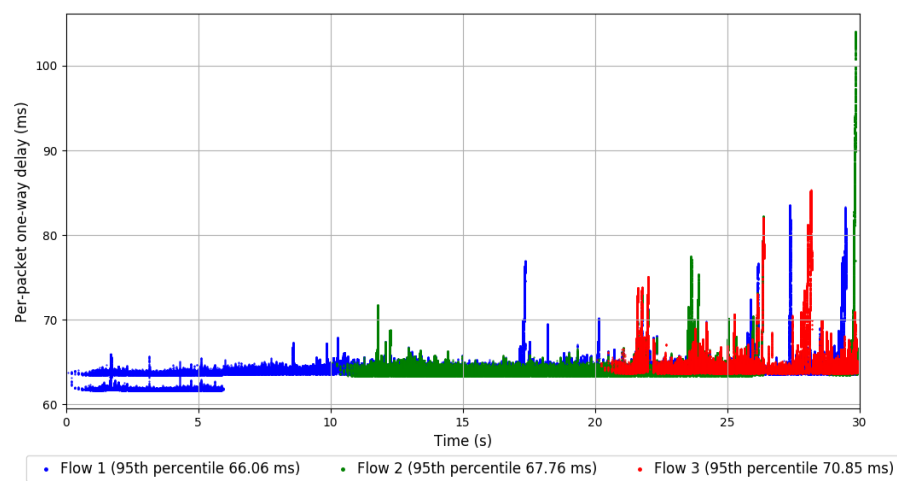
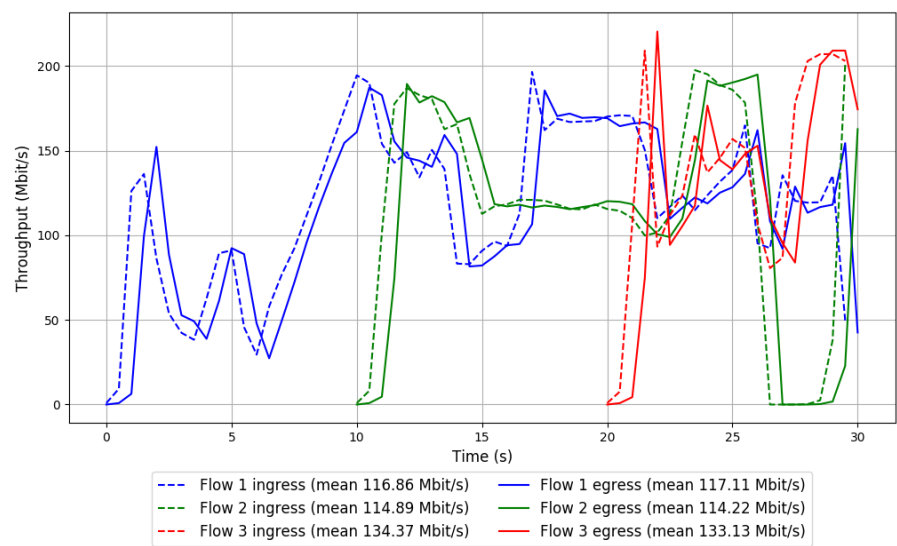


Run 1: Statistics of Copa

Start at: 2018-06-19 22:15:26
End at: 2018-06-19 22:15:56
Local clock offset: 0.565 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-06-20 02:37:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.86 Mbit/s
95th percentile per-packet one-way delay: 67.705 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 117.11 Mbit/s
95th percentile per-packet one-way delay: 66.055 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 114.22 Mbit/s
95th percentile per-packet one-way delay: 67.762 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 133.13 Mbit/s
95th percentile per-packet one-way delay: 70.852 ms
Loss rate: 2.21%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-19 22:38:56

End at: 2018-06-19 22:39:26

Local clock offset: 0.138 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-06-20 02:37:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.84 Mbit/s

95th percentile per-packet one-way delay: 65.884 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 115.41 Mbit/s

95th percentile per-packet one-way delay: 66.332 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 65.716 ms

Loss rate: 0.50%

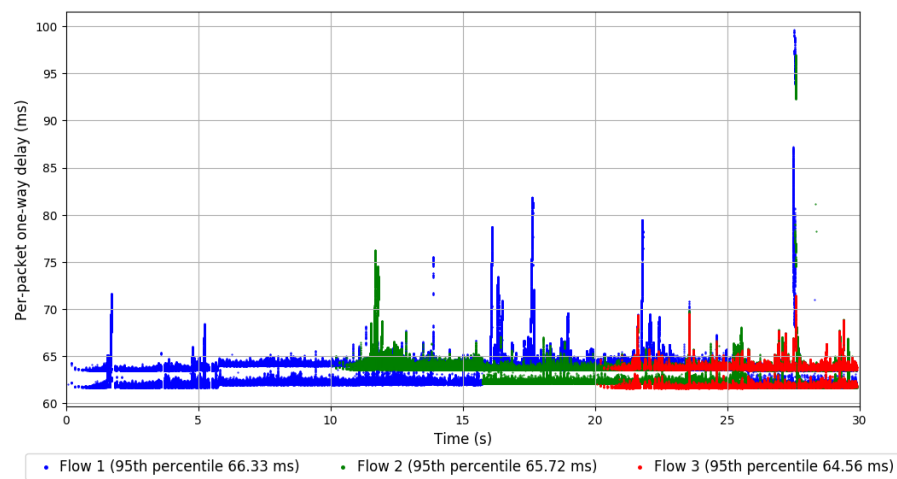
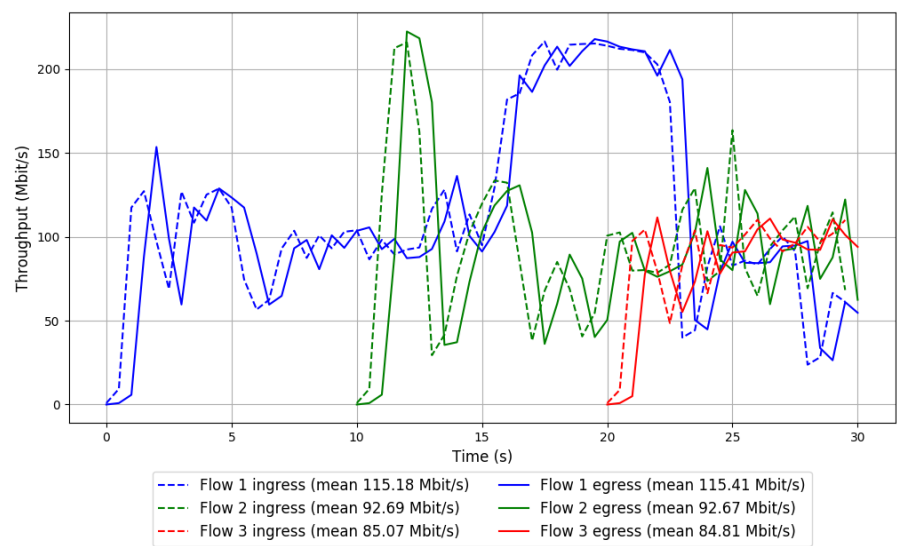
-- Flow 3:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 64.561 ms

Loss rate: 1.60%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-19 23:02:15

End at: 2018-06-19 23:02:45

Local clock offset: -0.222 ms

Remote clock offset: 0.223 ms

Below is generated by plot.py at 2018-06-20 02:37:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.62 Mbit/s

95th percentile per-packet one-way delay: 79.366 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 113.67 Mbit/s

95th percentile per-packet one-way delay: 84.270 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 105.59 Mbit/s

95th percentile per-packet one-way delay: 68.066 ms

Loss rate: 0.63%

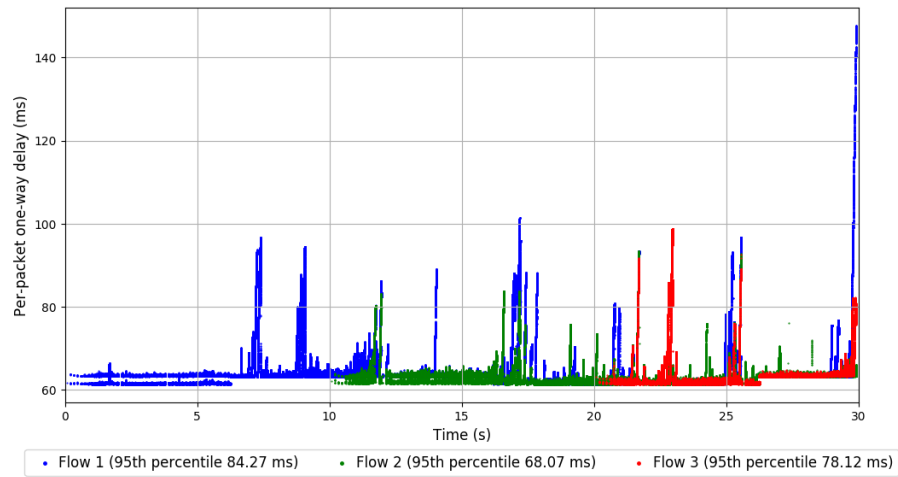
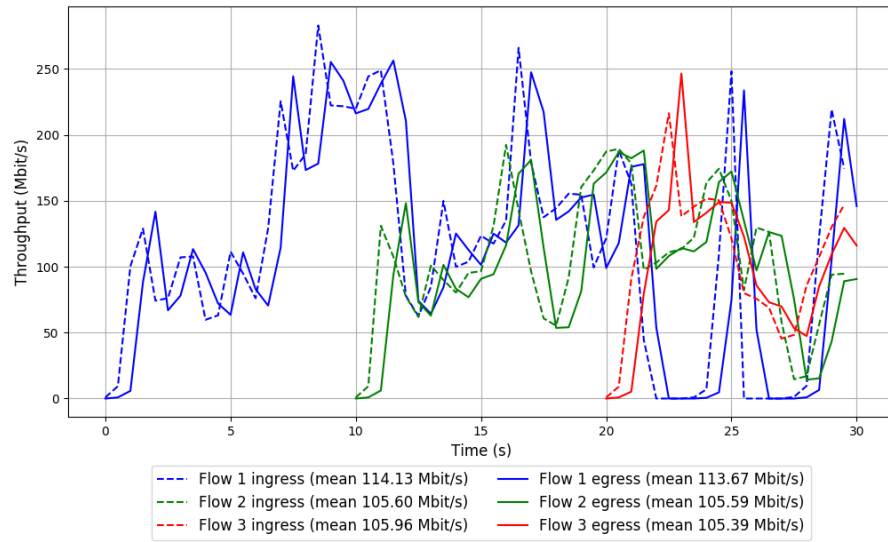
-- Flow 3:

Average throughput: 105.39 Mbit/s

95th percentile per-packet one-way delay: 78.120 ms

Loss rate: 1.81%

Run 3: Report of Copa — Data Link

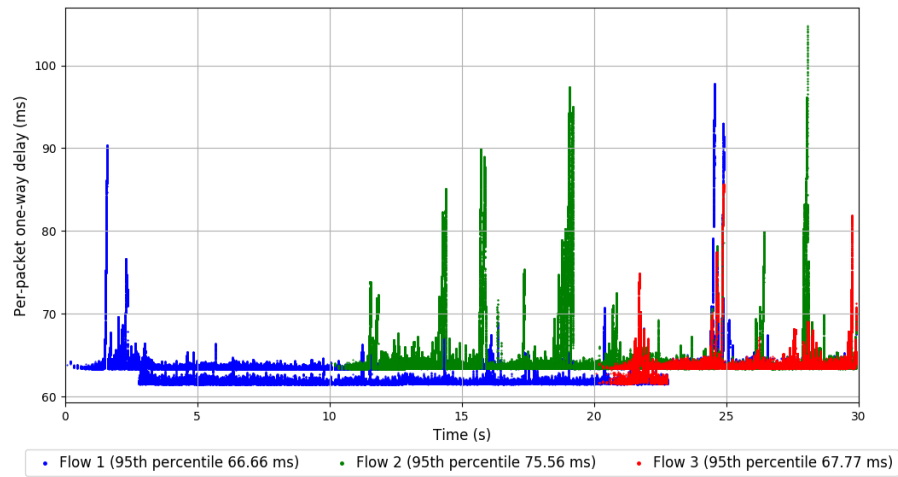
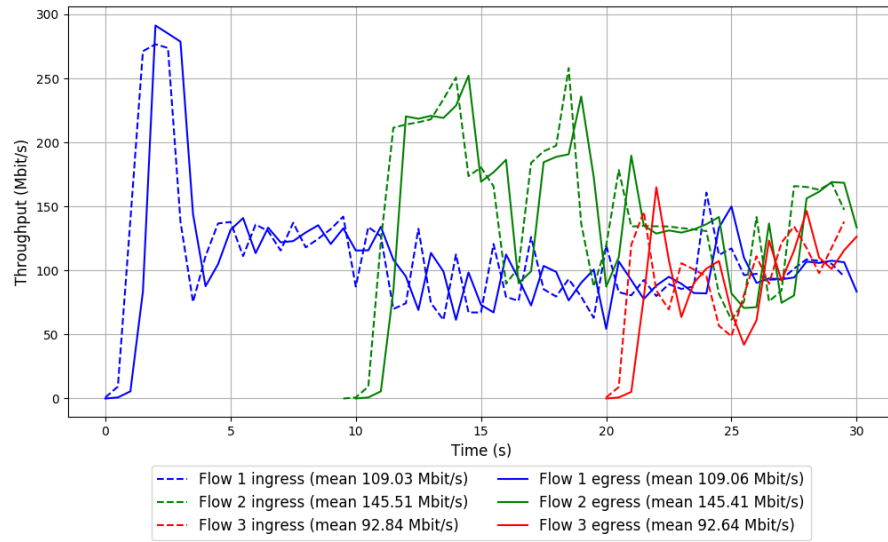


Run 4: Statistics of Copa

Start at: 2018-06-19 23:25:29
End at: 2018-06-19 23:25:59
Local clock offset: -0.117 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-20 02:37:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.28 Mbit/s
95th percentile per-packet one-way delay: 71.255 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 109.06 Mbit/s
95th percentile per-packet one-way delay: 66.662 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 145.41 Mbit/s
95th percentile per-packet one-way delay: 75.560 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 67.769 ms
Loss rate: 1.28%

Run 4: Report of Copa — Data Link

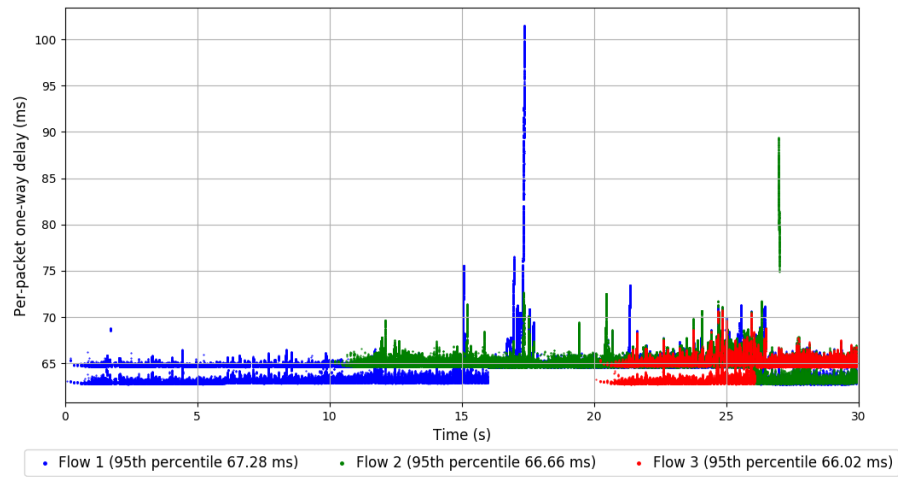
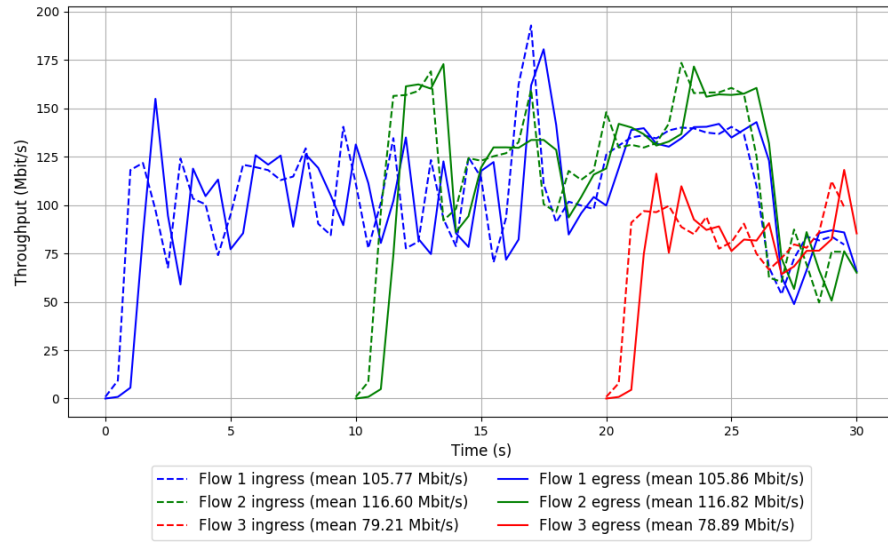


Run 5: Statistics of Copa

Start at: 2018-06-19 23:49:06
End at: 2018-06-19 23:49:36
Local clock offset: -0.059 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2018-06-20 02:37:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 209.47 Mbit/s
95th percentile per-packet one-way delay: 66.763 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 105.86 Mbit/s
95th percentile per-packet one-way delay: 67.283 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 116.82 Mbit/s
95th percentile per-packet one-way delay: 66.664 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 66.023 ms
Loss rate: 1.64%

Run 5: Report of Copa — Data Link

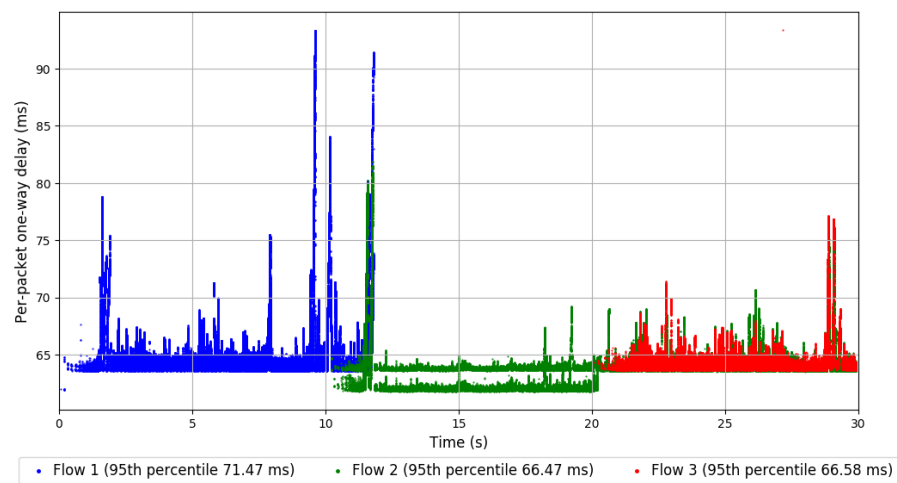
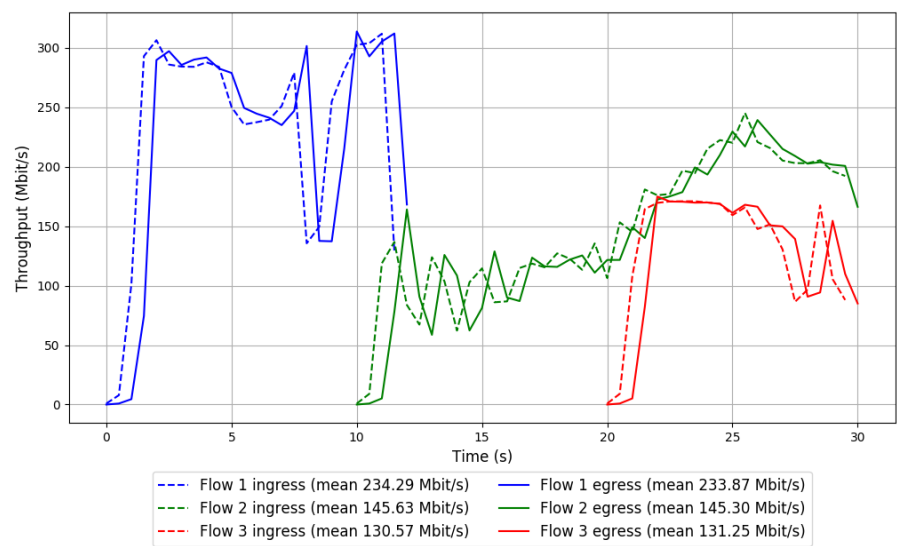


Run 6: Statistics of Copa

Start at: 2018-06-20 00:12:41
End at: 2018-06-20 00:13:11
Local clock offset: -0.149 ms
Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-06-20 02:37:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.86 Mbit/s
95th percentile per-packet one-way delay: 68.427 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 233.87 Mbit/s
95th percentile per-packet one-way delay: 71.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.30 Mbit/s
95th percentile per-packet one-way delay: 66.474 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 131.25 Mbit/s
95th percentile per-packet one-way delay: 66.578 ms
Loss rate: 0.75%

Run 6: Report of Copa — Data Link

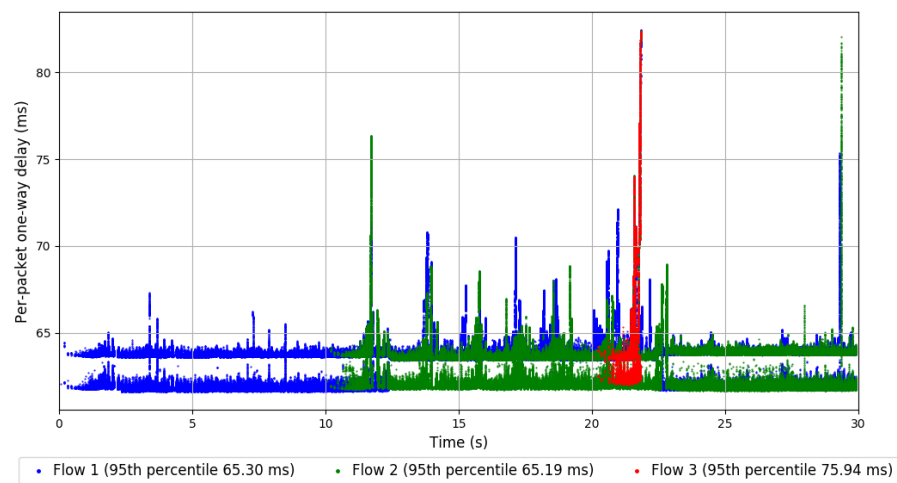
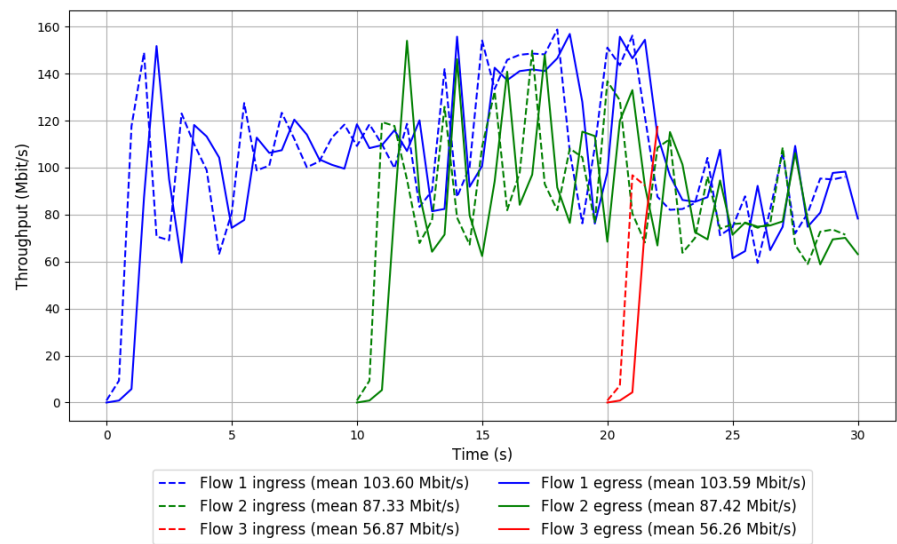


Run 7: Statistics of Copa

Start at: 2018-06-20 00:35:49
End at: 2018-06-20 00:36:19
Local clock offset: -0.016 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-06-20 02:41:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 164.99 Mbit/s
95th percentile per-packet one-way delay: 65.402 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 103.59 Mbit/s
95th percentile per-packet one-way delay: 65.301 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 65.193 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 56.26 Mbit/s
95th percentile per-packet one-way delay: 75.941 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-20 00:59:15

End at: 2018-06-20 00:59:45

Local clock offset: -0.066 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-06-20 02:44:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.36 Mbit/s

95th percentile per-packet one-way delay: 67.893 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 146.23 Mbit/s

95th percentile per-packet one-way delay: 68.824 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 88.34 Mbit/s

95th percentile per-packet one-way delay: 64.690 ms

Loss rate: 0.67%

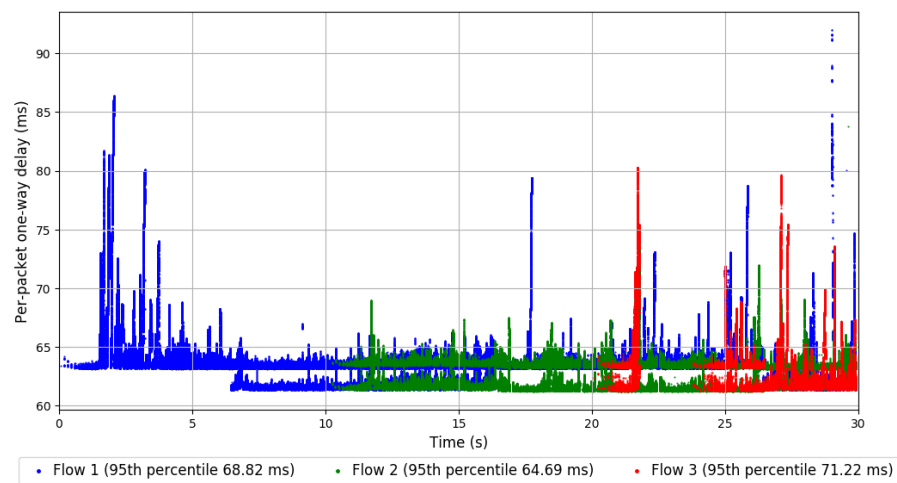
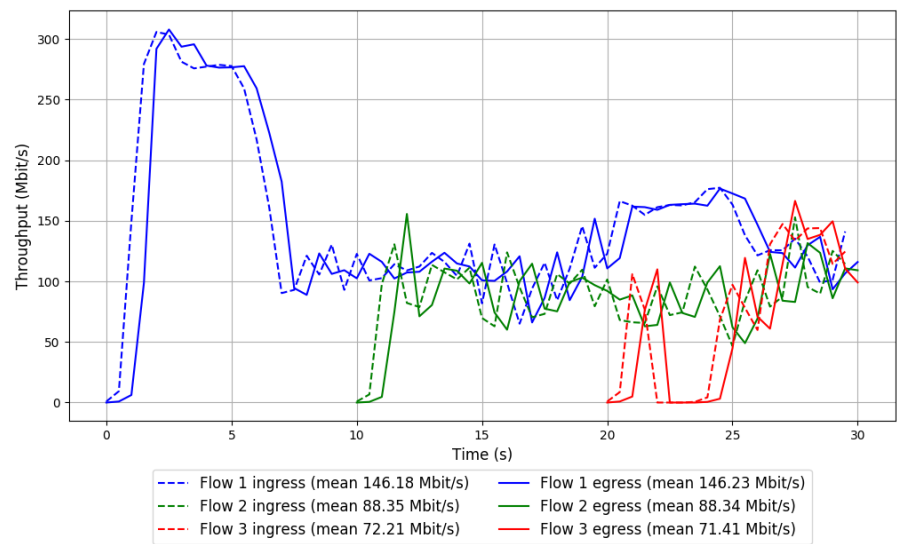
-- Flow 3:

Average throughput: 71.41 Mbit/s

95th percentile per-packet one-way delay: 71.222 ms

Loss rate: 2.36%

Run 8: Report of Copa — Data Link

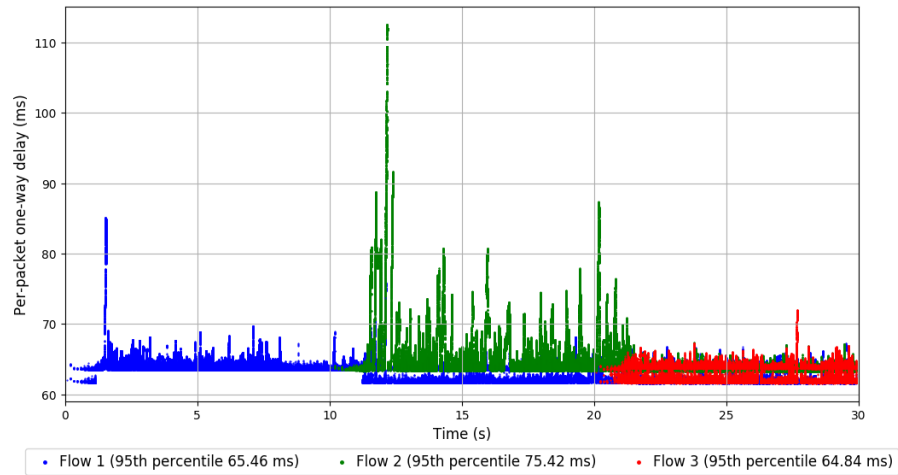
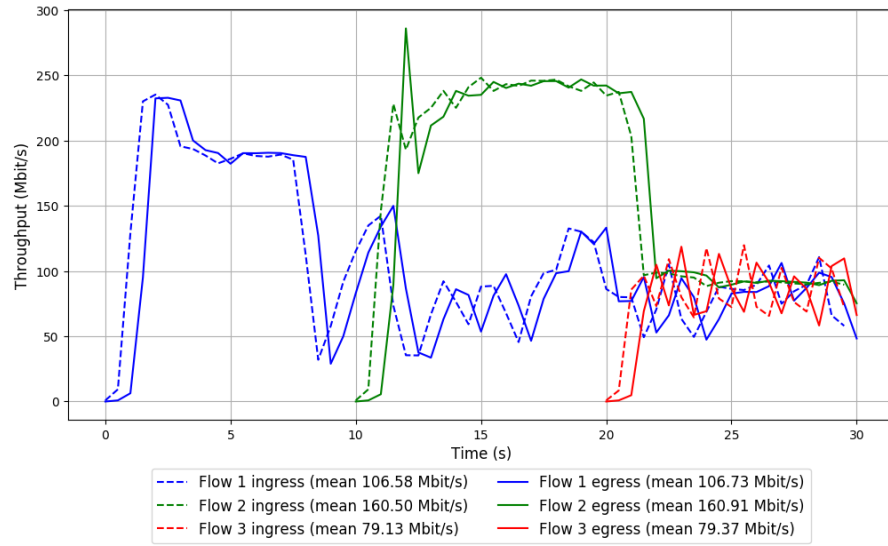


Run 9: Statistics of Copa

Start at: 2018-06-20 01:22:41
End at: 2018-06-20 01:23:11
Local clock offset: -0.013 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-20 02:45:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 239.85 Mbit/s
95th percentile per-packet one-way delay: 70.328 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 106.73 Mbit/s
95th percentile per-packet one-way delay: 65.464 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 160.91 Mbit/s
95th percentile per-packet one-way delay: 75.423 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 79.37 Mbit/s
95th percentile per-packet one-way delay: 64.843 ms
Loss rate: 0.98%

Run 9: Report of Copa — Data Link

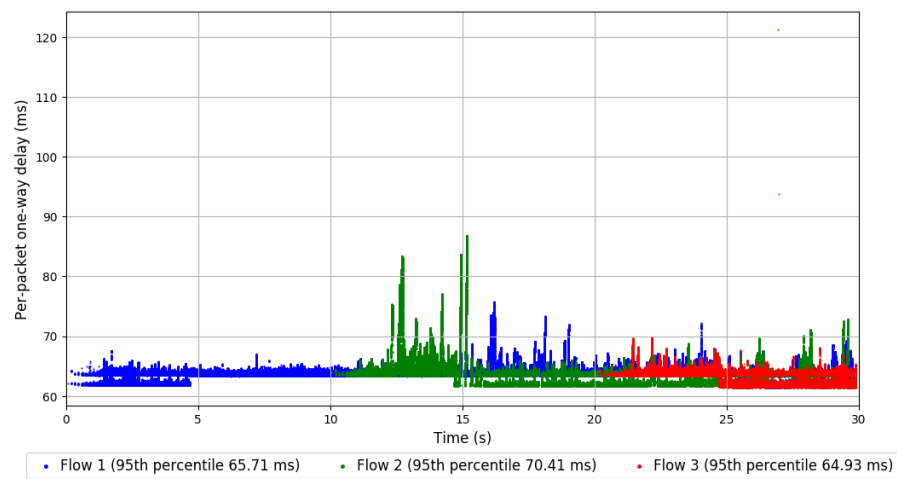
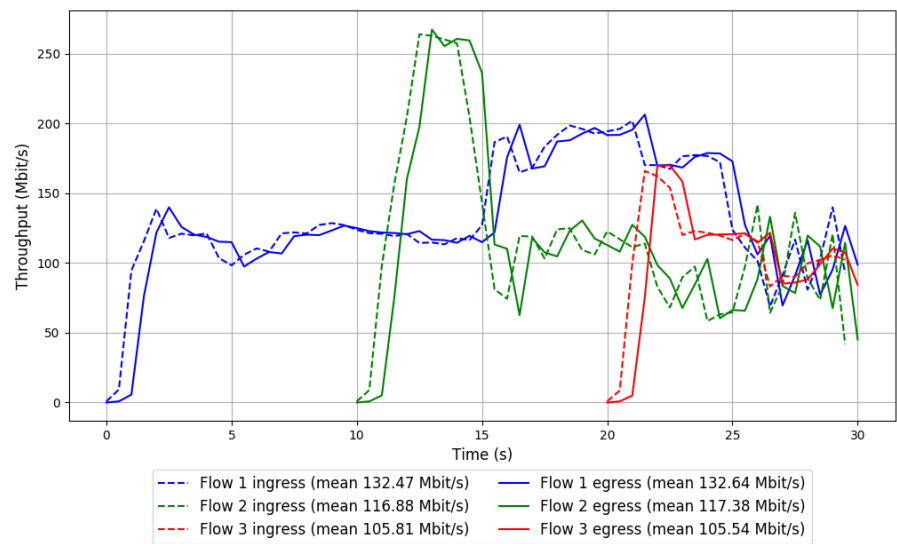


Run 10: Statistics of Copa

Start at: 2018-06-20 01:46:07
End at: 2018-06-20 01:46:37
Local clock offset: 0.004 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-20 02:45:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.22 Mbit/s
95th percentile per-packet one-way delay: 66.839 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 132.64 Mbit/s
95th percentile per-packet one-way delay: 65.709 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 117.38 Mbit/s
95th percentile per-packet one-way delay: 70.413 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 105.54 Mbit/s
95th percentile per-packet one-way delay: 64.932 ms
Loss rate: 1.27%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 22:33:03

End at: 2018-06-19 22:33:33

Local clock offset: 0.368 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-20 02:45:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.75 Mbit/s

95th percentile per-packet one-way delay: 75.031 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 179.88 Mbit/s

95th percentile per-packet one-way delay: 74.828 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 177.40 Mbit/s

95th percentile per-packet one-way delay: 75.560 ms

Loss rate: 0.69%

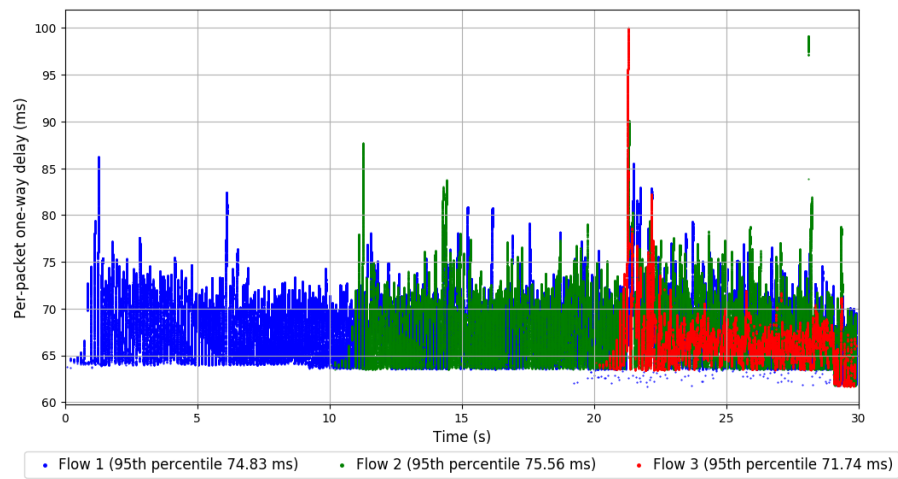
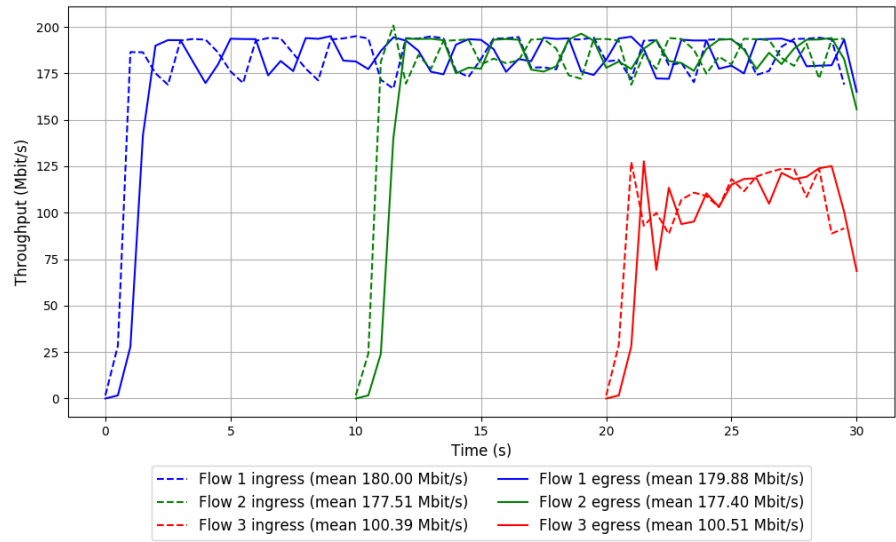
-- Flow 3:

Average throughput: 100.51 Mbit/s

95th percentile per-packet one-way delay: 71.742 ms

Loss rate: 1.16%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 22:56:25

End at: 2018-06-19 22:56:55

Local clock offset: -0.192 ms

Remote clock offset: -1.35 ms

Below is generated by plot.py at 2018-06-20 02:45:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.82 Mbit/s

95th percentile per-packet one-way delay: 74.984 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 181.25 Mbit/s

95th percentile per-packet one-way delay: 75.405 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 124.88 Mbit/s

95th percentile per-packet one-way delay: 73.256 ms

Loss rate: 0.66%

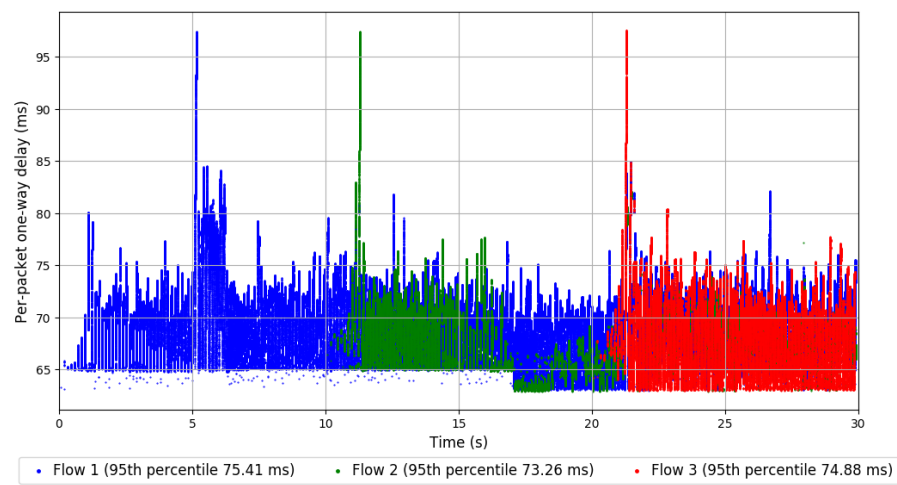
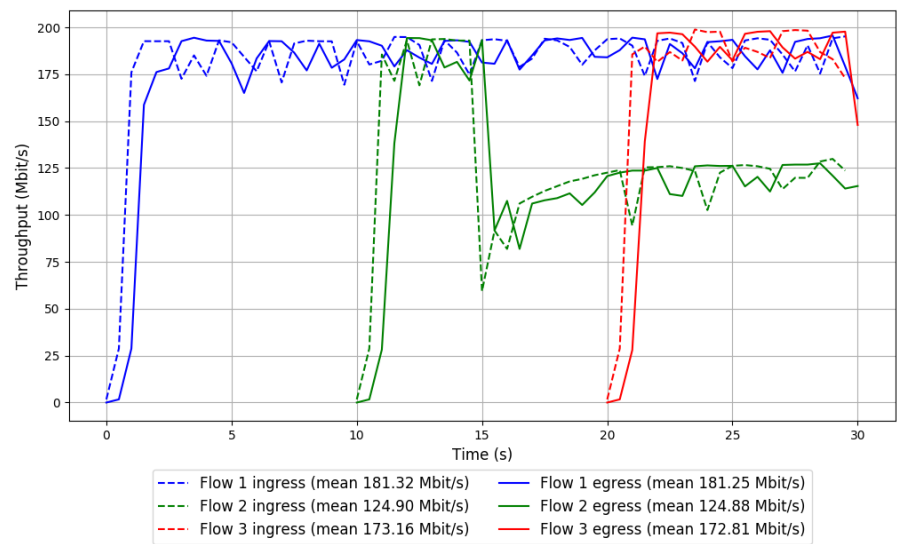
-- Flow 3:

Average throughput: 172.81 Mbit/s

95th percentile per-packet one-way delay: 74.876 ms

Loss rate: 1.44%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 23:19:45

End at: 2018-06-19 23:20:15

Local clock offset: -0.137 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-06-20 02:45:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.08 Mbit/s

95th percentile per-packet one-way delay: 73.234 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 82.33 Mbit/s

95th percentile per-packet one-way delay: 73.652 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 55.78 Mbit/s

95th percentile per-packet one-way delay: 72.606 ms

Loss rate: 0.83%

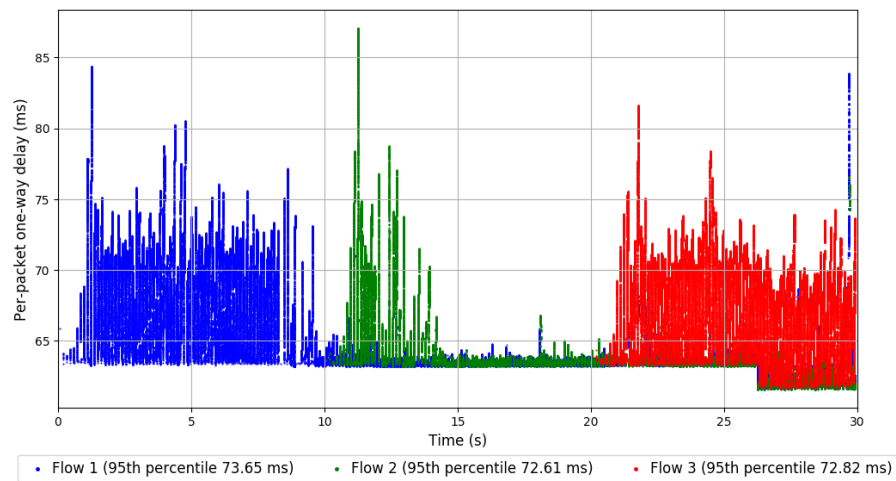
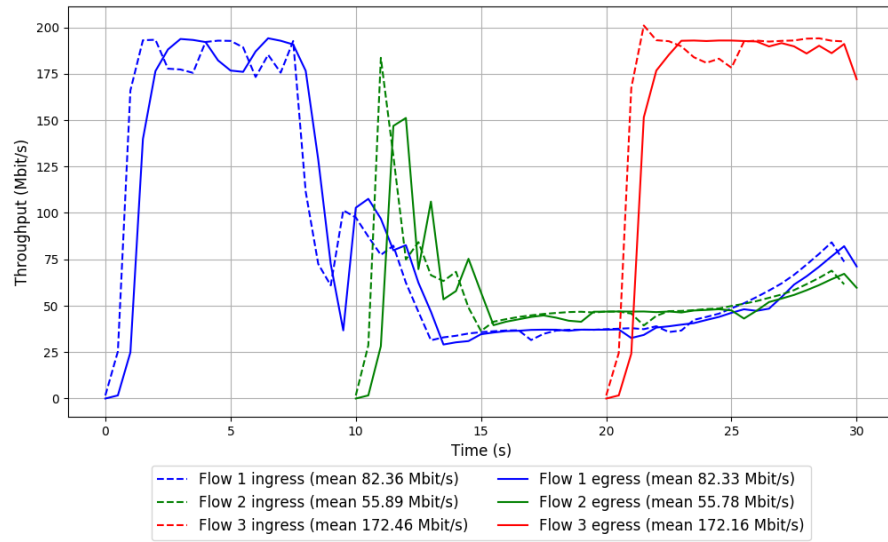
-- Flow 3:

Average throughput: 172.16 Mbit/s

95th percentile per-packet one-way delay: 72.822 ms

Loss rate: 1.40%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 23:43:15

End at: 2018-06-19 23:43:45

Local clock offset: -0.149 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-06-20 02:45:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.36 Mbit/s

95th percentile per-packet one-way delay: 74.328 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 180.59 Mbit/s

95th percentile per-packet one-way delay: 74.781 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 115.15 Mbit/s

95th percentile per-packet one-way delay: 72.497 ms

Loss rate: 0.83%

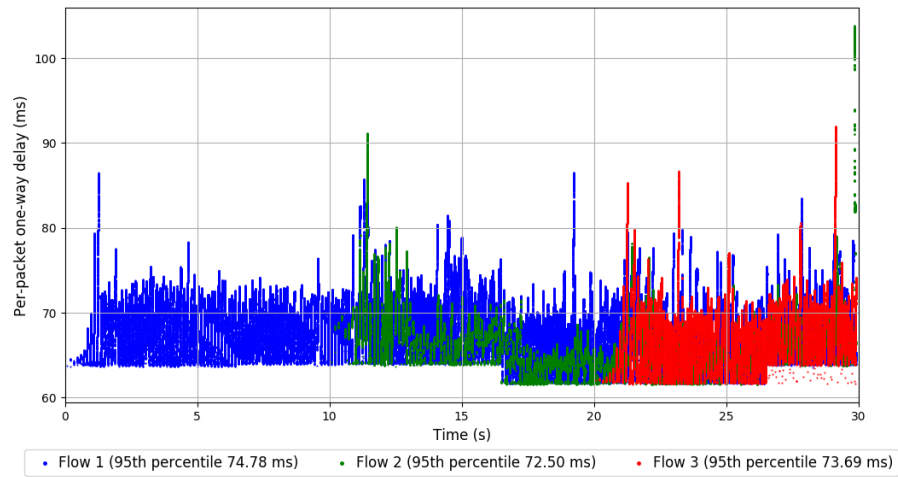
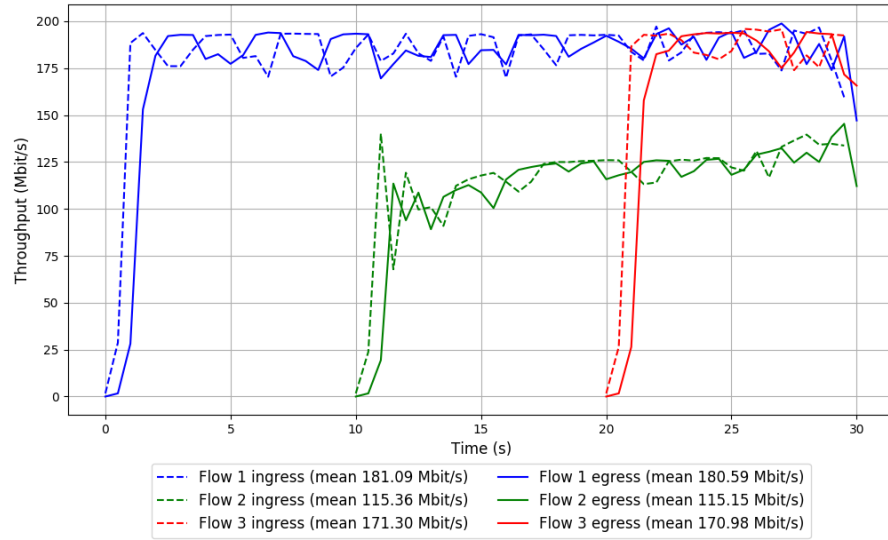
-- Flow 3:

Average throughput: 170.98 Mbit/s

95th percentile per-packet one-way delay: 73.687 ms

Loss rate: 1.41%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 00:06:44

End at: 2018-06-20 00:07:14

Local clock offset: -0.158 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-06-20 02:48:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.68 Mbit/s

95th percentile per-packet one-way delay: 77.074 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 179.70 Mbit/s

95th percentile per-packet one-way delay: 73.858 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 172.75 Mbit/s

95th percentile per-packet one-way delay: 76.595 ms

Loss rate: 0.70%

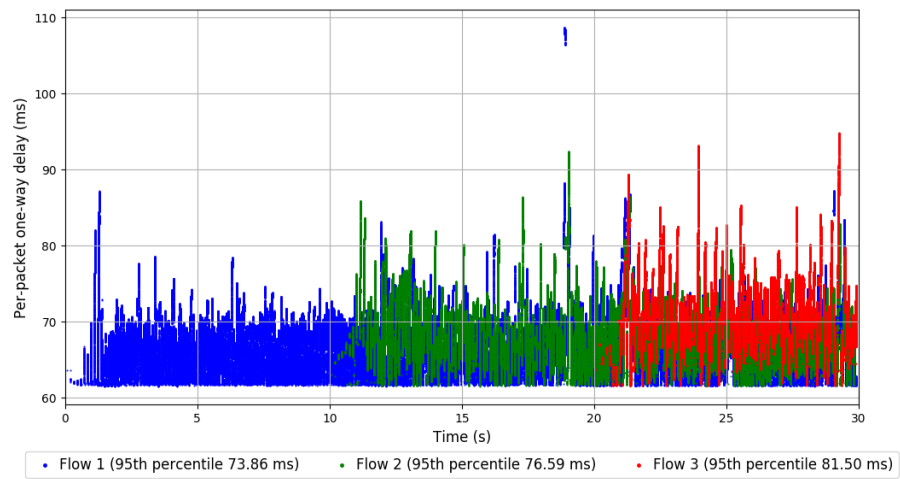
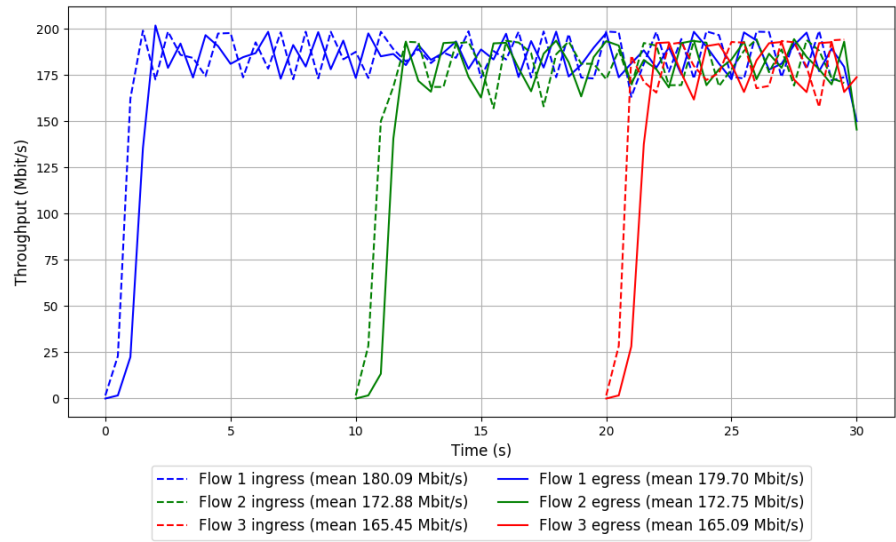
-- Flow 3:

Average throughput: 165.09 Mbit/s

95th percentile per-packet one-way delay: 81.502 ms

Loss rate: 1.46%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 00:30:05

End at: 2018-06-20 00:30:35

Local clock offset: -0.117 ms

Remote clock offset: 1.254 ms

Below is generated by plot.py at 2018-06-20 02:48:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.92 Mbit/s

95th percentile per-packet one-way delay: 74.602 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 151.16 Mbit/s

95th percentile per-packet one-way delay: 73.541 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 177.45 Mbit/s

95th percentile per-packet one-way delay: 75.342 ms

Loss rate: 0.68%

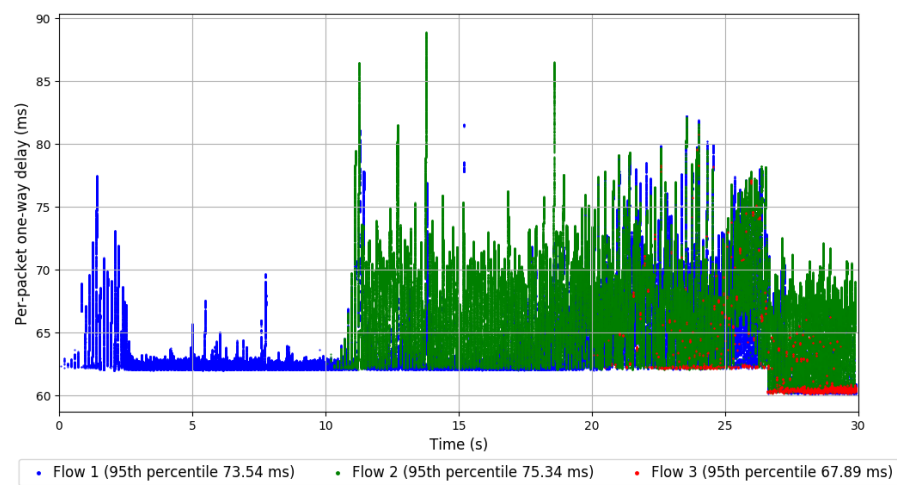
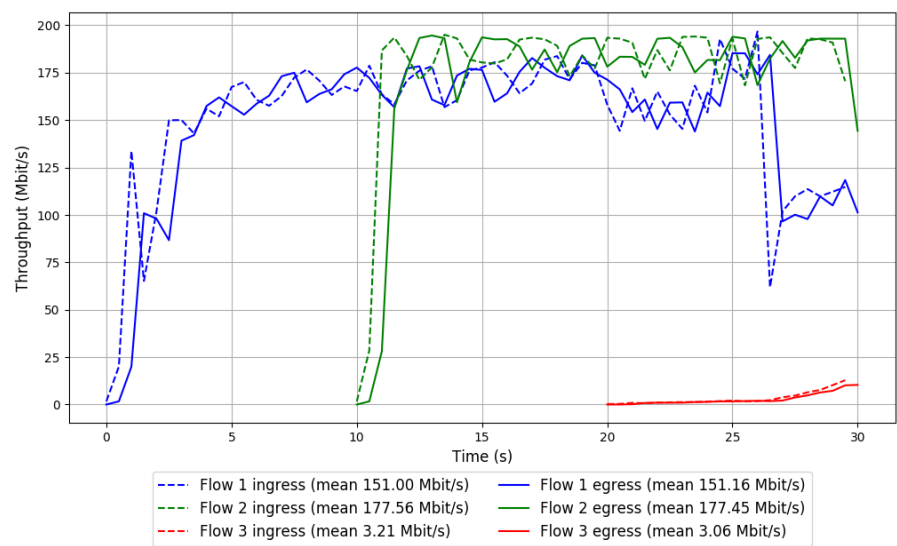
-- Flow 3:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 67.885 ms

Loss rate: 5.78%

Run 6: Report of TCP Cubic — Data Link

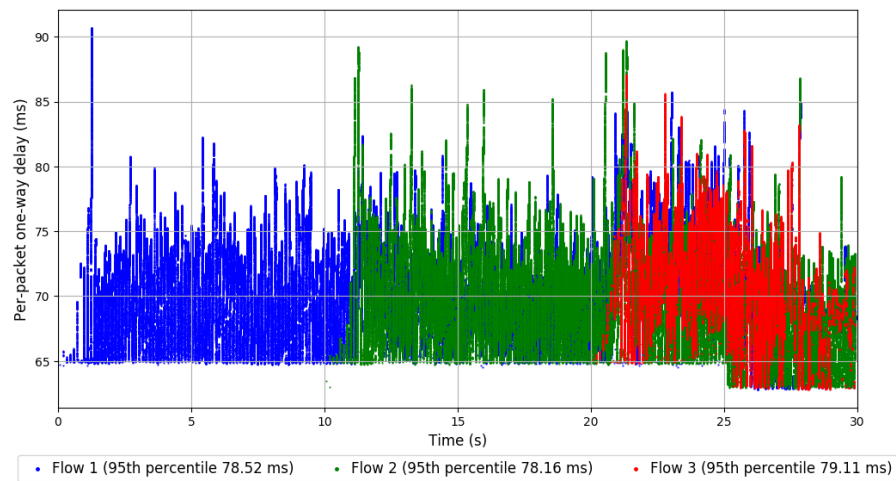
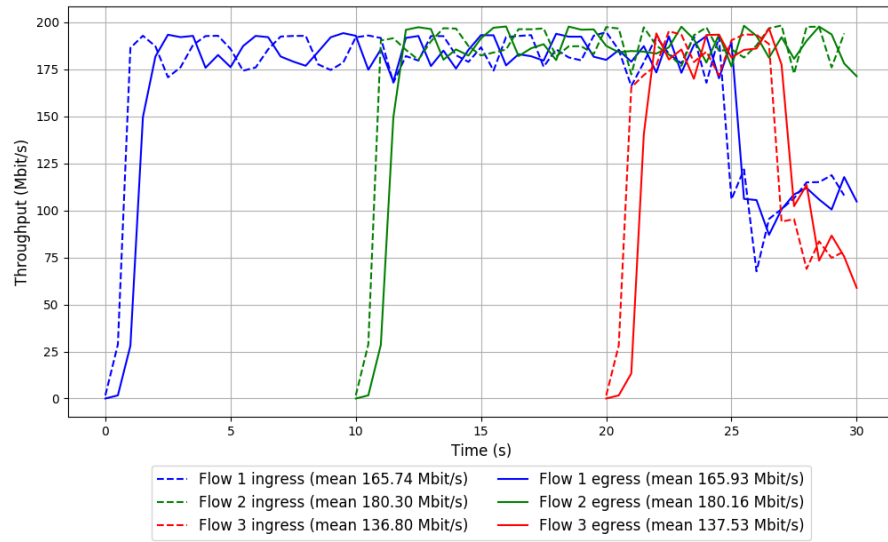


Run 7: Statistics of TCP Cubic

Start at: 2018-06-20 00:53:27
End at: 2018-06-20 00:53:57
Local clock offset: -0.044 ms
Remote clock offset: -1.348 ms

Below is generated by plot.py at 2018-06-20 02:50:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.05 Mbit/s
95th percentile per-packet one-way delay: 78.519 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 165.93 Mbit/s
95th percentile per-packet one-way delay: 78.521 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 180.16 Mbit/s
95th percentile per-packet one-way delay: 78.157 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 137.53 Mbit/s
95th percentile per-packet one-way delay: 79.110 ms
Loss rate: 0.73%

Run 7: Report of TCP Cubic — Data Link

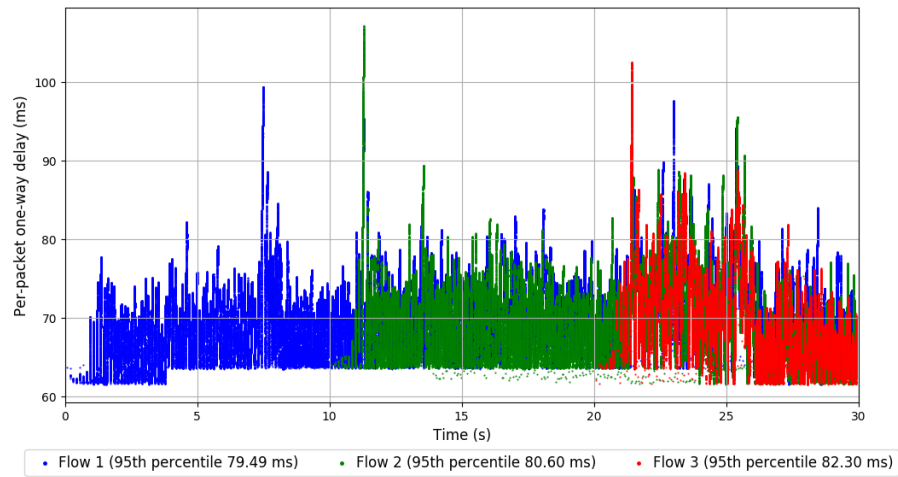
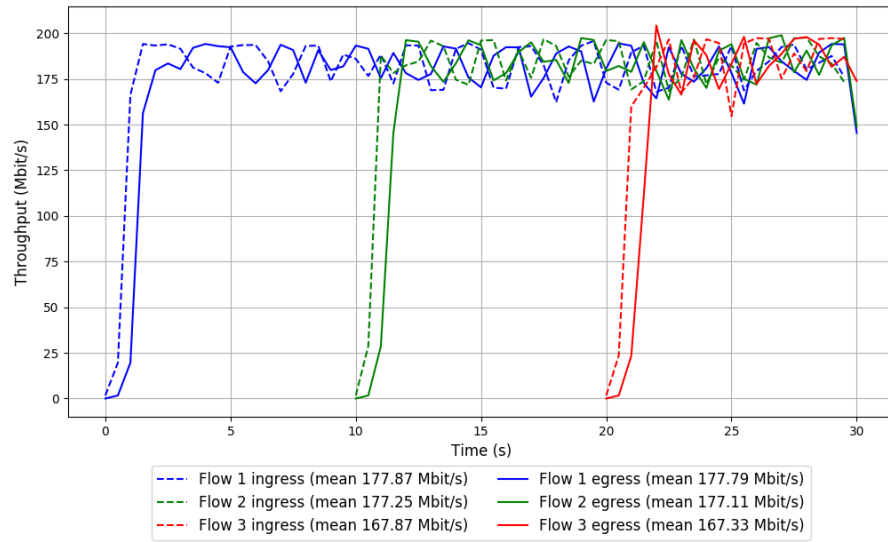


Run 8: Statistics of TCP Cubic

Start at: 2018-06-20 01:16:48
End at: 2018-06-20 01:17:18
Local clock offset: -0.025 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-20 02:51:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.02 Mbit/s
95th percentile per-packet one-way delay: 80.411 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 177.79 Mbit/s
95th percentile per-packet one-way delay: 79.492 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 177.11 Mbit/s
95th percentile per-packet one-way delay: 80.602 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 82.295 ms
Loss rate: 1.57%

Run 8: Report of TCP Cubic — Data Link

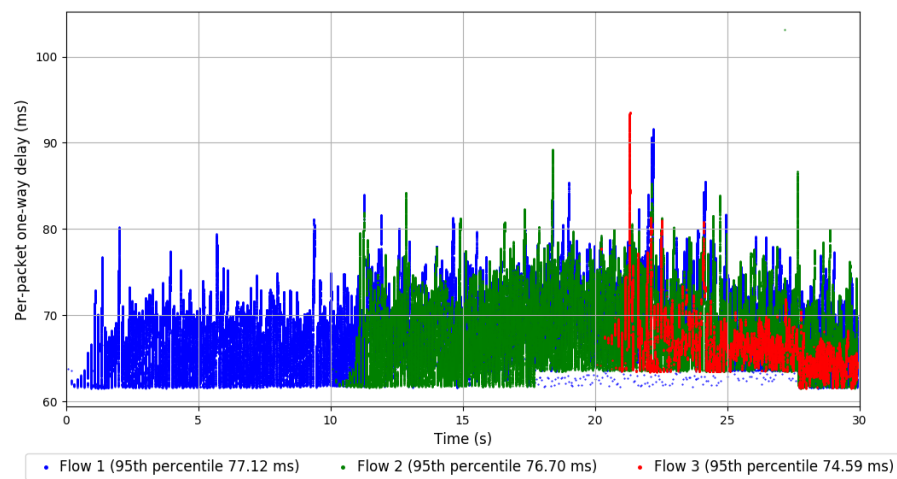
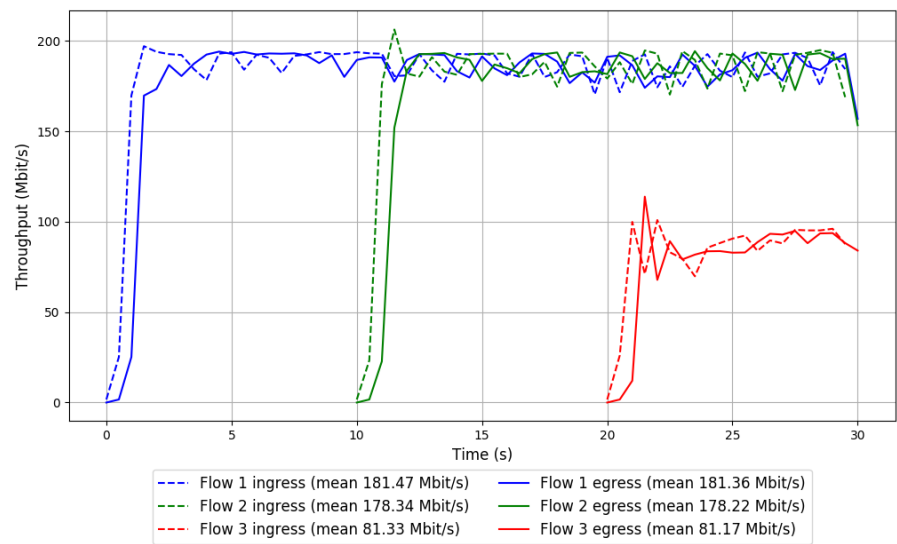


Run 9: Statistics of TCP Cubic

Start at: 2018-06-20 01:40:14
End at: 2018-06-20 01:40:44
Local clock offset: -0.001 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-20 02:51:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 326.43 Mbit/s
95th percentile per-packet one-way delay: 76.855 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 181.36 Mbit/s
95th percentile per-packet one-way delay: 77.120 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 178.22 Mbit/s
95th percentile per-packet one-way delay: 76.697 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 74.590 ms
Loss rate: 1.48%

Run 9: Report of TCP Cubic — Data Link

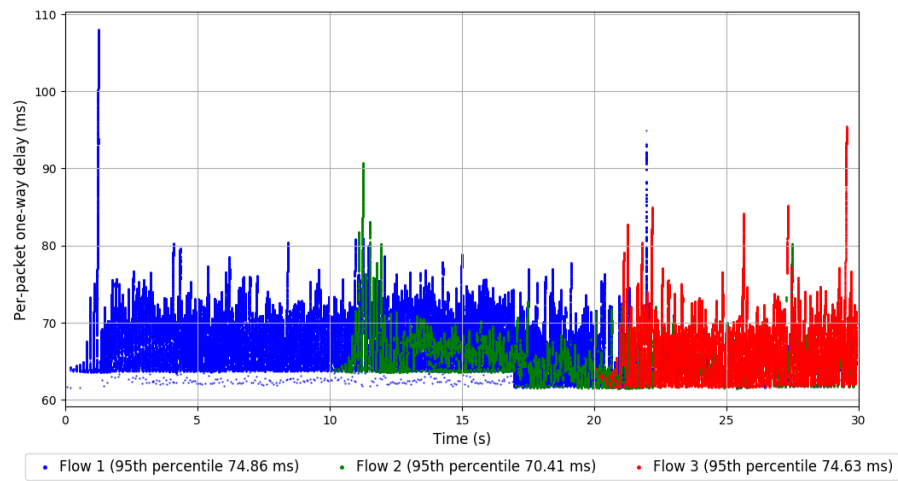
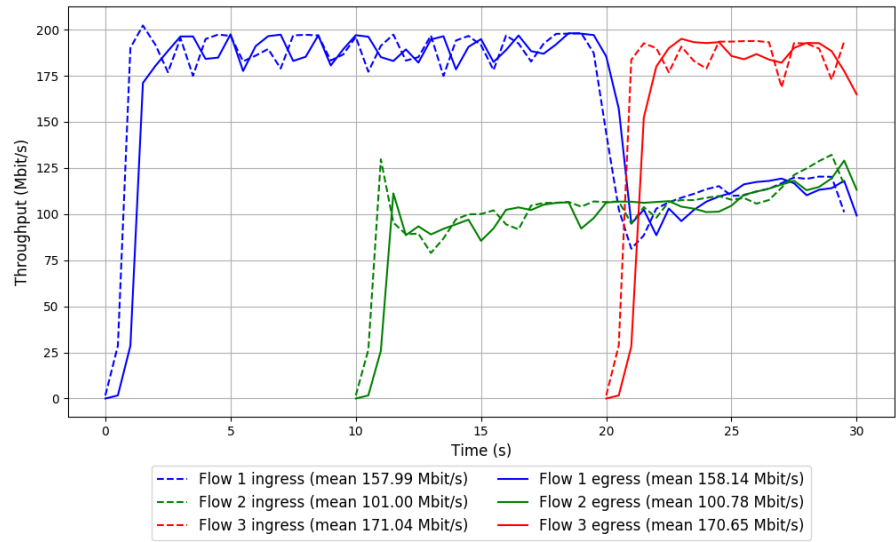


Run 10: Statistics of TCP Cubic

Start at: 2018-06-20 02:03:55
End at: 2018-06-20 02:04:25
Local clock offset: -0.077 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-20 02:51:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 281.30 Mbit/s
95th percentile per-packet one-way delay: 74.440 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 158.14 Mbit/s
95th percentile per-packet one-way delay: 74.861 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 100.78 Mbit/s
95th percentile per-packet one-way delay: 70.411 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 170.65 Mbit/s
95th percentile per-packet one-way delay: 74.627 ms
Loss rate: 1.45%

Run 10: Report of TCP Cubic — Data Link

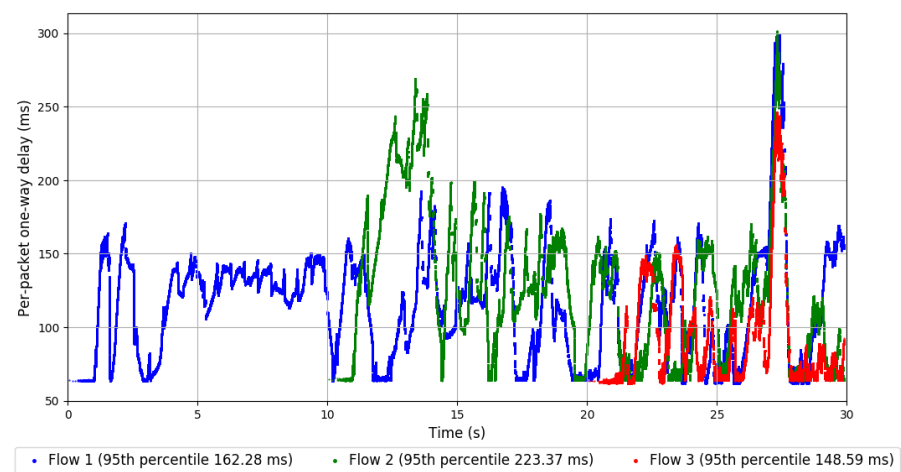
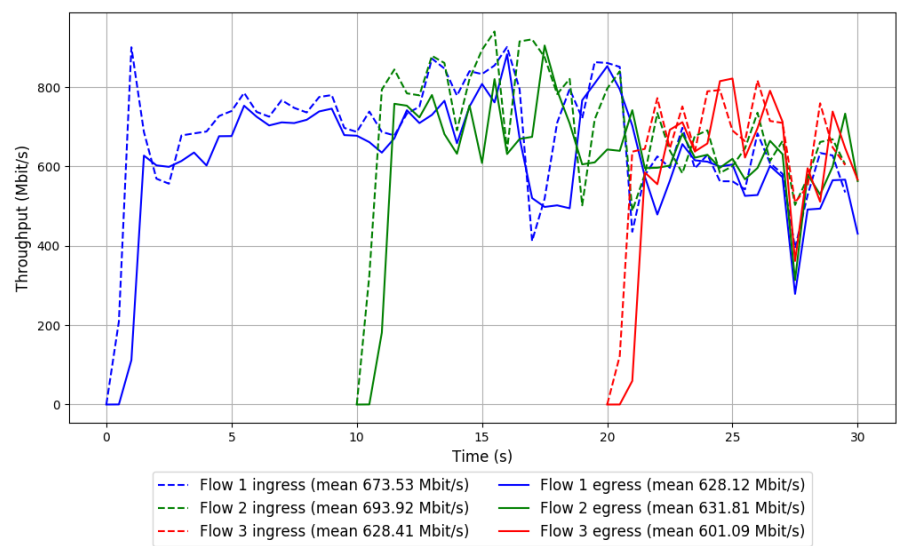


Run 1: Statistics of FillP

Start at: 2018-06-19 22:30:58
End at: 2018-06-19 22:31:28
Local clock offset: 0.491 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-06-20 03:15:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1245.42 Mbit/s
95th percentile per-packet one-way delay: 188.701 ms
Loss rate: 7.70%
-- Flow 1:
Average throughput: 628.12 Mbit/s
95th percentile per-packet one-way delay: 162.276 ms
Loss rate: 7.14%
-- Flow 2:
Average throughput: 631.81 Mbit/s
95th percentile per-packet one-way delay: 223.367 ms
Loss rate: 9.53%
-- Flow 3:
Average throughput: 601.09 Mbit/s
95th percentile per-packet one-way delay: 148.589 ms
Loss rate: 5.46%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-19 22:54:19

End at: 2018-06-19 22:54:49

Local clock offset: -0.139 ms

Remote clock offset: 1.234 ms

Below is generated by plot.py at 2018-06-20 03:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 1301.37 Mbit/s

95th percentile per-packet one-way delay: 153.506 ms

Loss rate: 7.61%

-- Flow 1:

Average throughput: 678.93 Mbit/s

95th percentile per-packet one-way delay: 153.047 ms

Loss rate: 8.14%

-- Flow 2:

Average throughput: 655.39 Mbit/s

95th percentile per-packet one-way delay: 154.924 ms

Loss rate: 6.83%

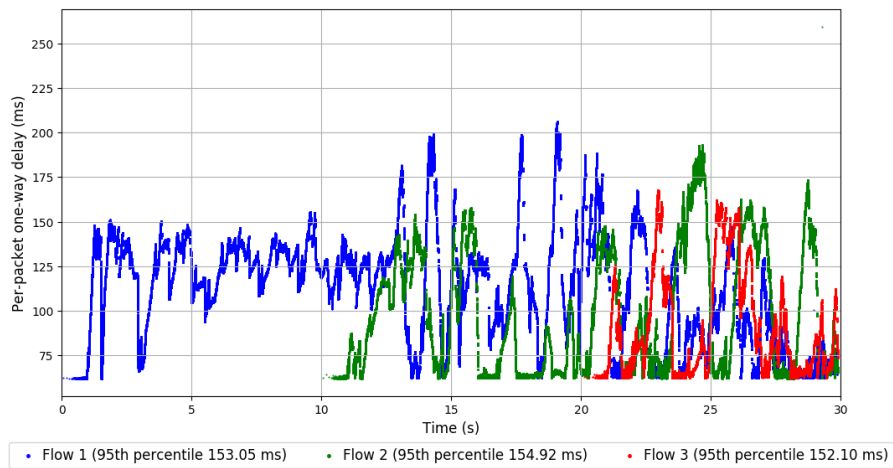
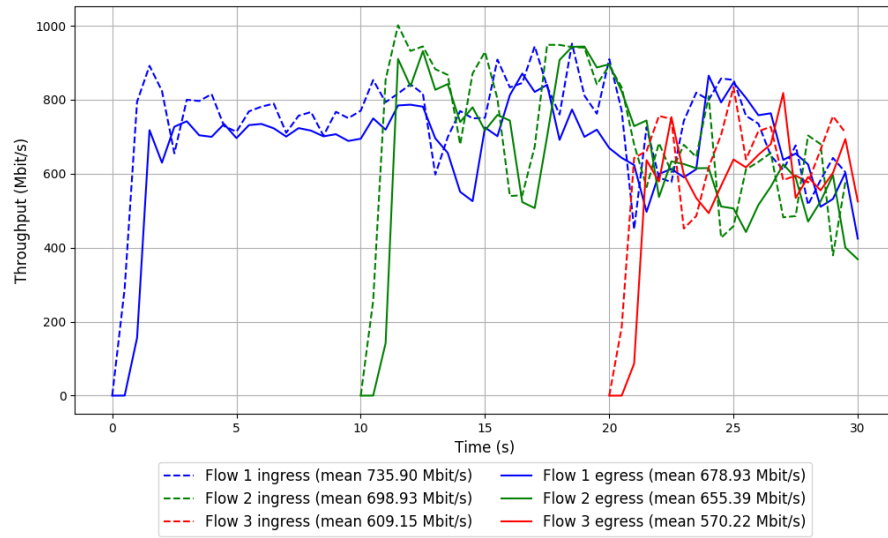
-- Flow 3:

Average throughput: 570.22 Mbit/s

95th percentile per-packet one-way delay: 152.096 ms

Loss rate: 7.45%

Run 2: Report of FillP — Data Link

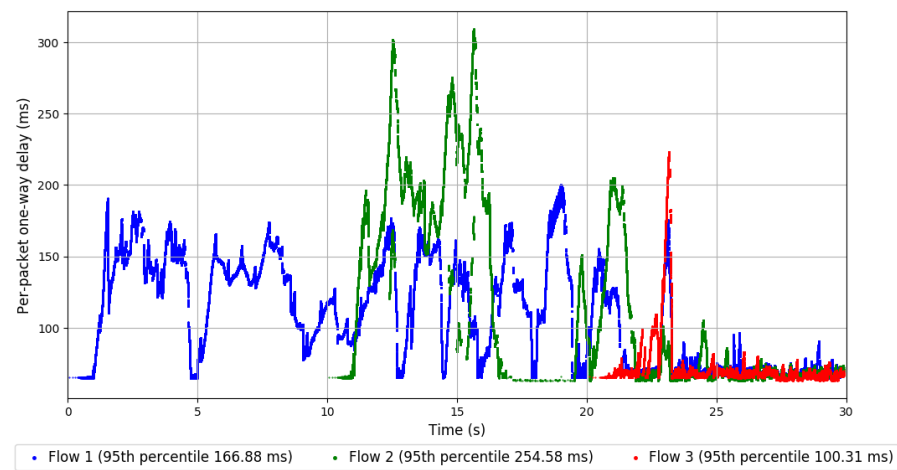
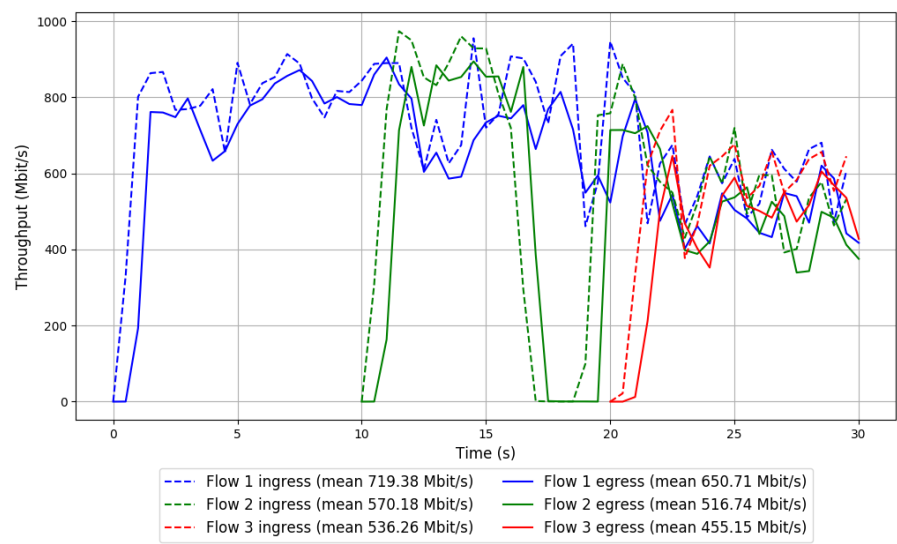


Run 3: Statistics of FillP

Start at: 2018-06-19 23:17:45
End at: 2018-06-19 23:18:15
Local clock offset: -0.091 ms
Remote clock offset: -1.491 ms

Below is generated by plot.py at 2018-06-20 03:17:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 1143.26 Mbit/s
95th percentile per-packet one-way delay: 203.907 ms
Loss rate: 10.81%
-- Flow 1:
Average throughput: 650.71 Mbit/s
95th percentile per-packet one-way delay: 166.885 ms
Loss rate: 9.93%
-- Flow 2:
Average throughput: 516.74 Mbit/s
95th percentile per-packet one-way delay: 254.580 ms
Loss rate: 9.94%
-- Flow 3:
Average throughput: 455.15 Mbit/s
95th percentile per-packet one-way delay: 100.311 ms
Loss rate: 16.20%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-19 23:41:06

End at: 2018-06-19 23:41:36

Local clock offset: -0.155 ms

Remote clock offset: 1.39 ms

Below is generated by plot.py at 2018-06-20 03:21:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 1366.93 Mbit/s

95th percentile per-packet one-way delay: 194.868 ms

Loss rate: 7.14%

-- Flow 1:

Average throughput: 704.81 Mbit/s

95th percentile per-packet one-way delay: 200.697 ms

Loss rate: 7.08%

-- Flow 2:

Average throughput: 723.38 Mbit/s

95th percentile per-packet one-way delay: 195.718 ms

Loss rate: 6.21%

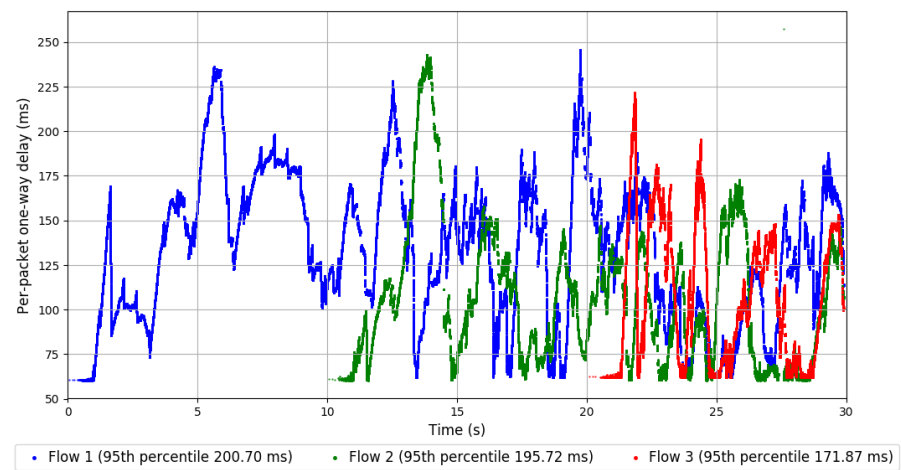
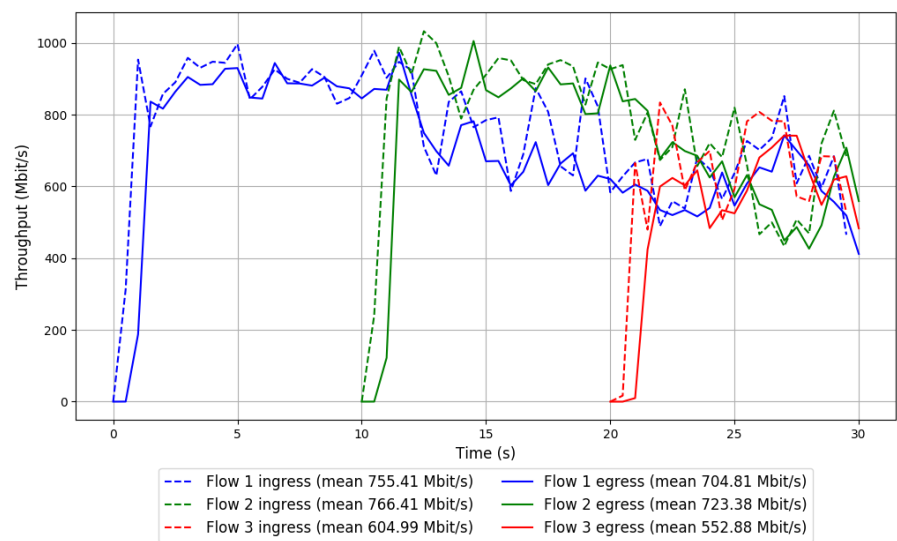
-- Flow 3:

Average throughput: 552.88 Mbit/s

95th percentile per-packet one-way delay: 171.865 ms

Loss rate: 9.77%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-20 00:04:34

End at: 2018-06-20 00:05:04

Local clock offset: -0.118 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-20 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 1380.68 Mbit/s

95th percentile per-packet one-way delay: 180.492 ms

Loss rate: 6.85%

-- Flow 1:

Average throughput: 773.52 Mbit/s

95th percentile per-packet one-way delay: 209.761 ms

Loss rate: 5.24%

-- Flow 2:

Average throughput: 627.20 Mbit/s

95th percentile per-packet one-way delay: 159.385 ms

Loss rate: 10.32%

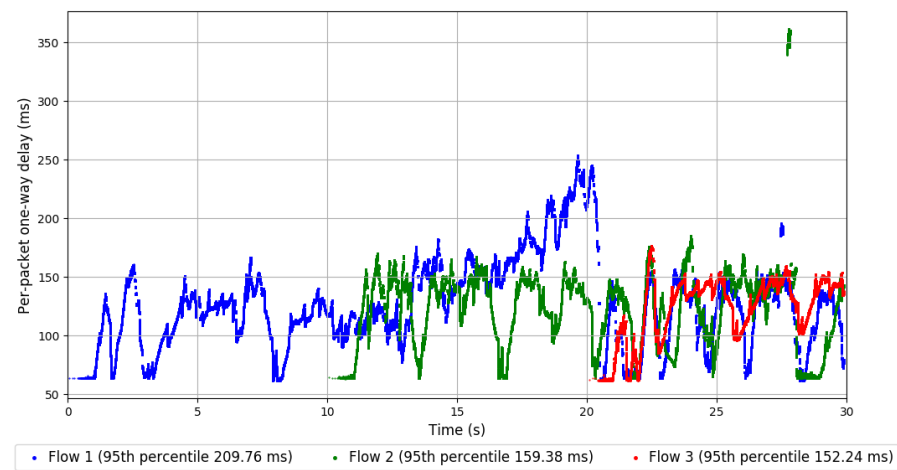
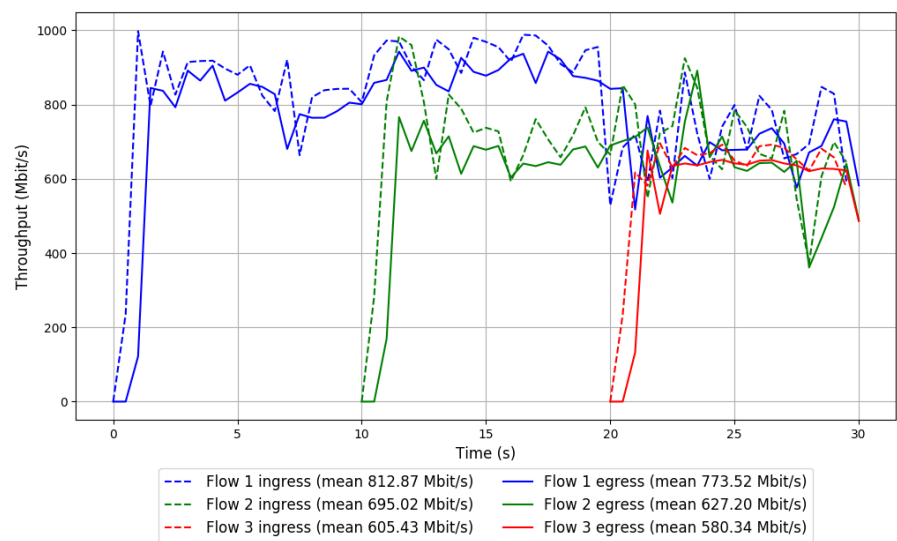
-- Flow 3:

Average throughput: 580.34 Mbit/s

95th percentile per-packet one-way delay: 152.239 ms

Loss rate: 5.35%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-20 00:27:57

End at: 2018-06-20 00:28:27

Local clock offset: -0.041 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-06-20 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 1336.31 Mbit/s

95th percentile per-packet one-way delay: 162.691 ms

Loss rate: 7.37%

-- Flow 1:

Average throughput: 751.42 Mbit/s

95th percentile per-packet one-way delay: 148.046 ms

Loss rate: 6.19%

-- Flow 2:

Average throughput: 619.08 Mbit/s

95th percentile per-packet one-way delay: 180.362 ms

Loss rate: 9.41%

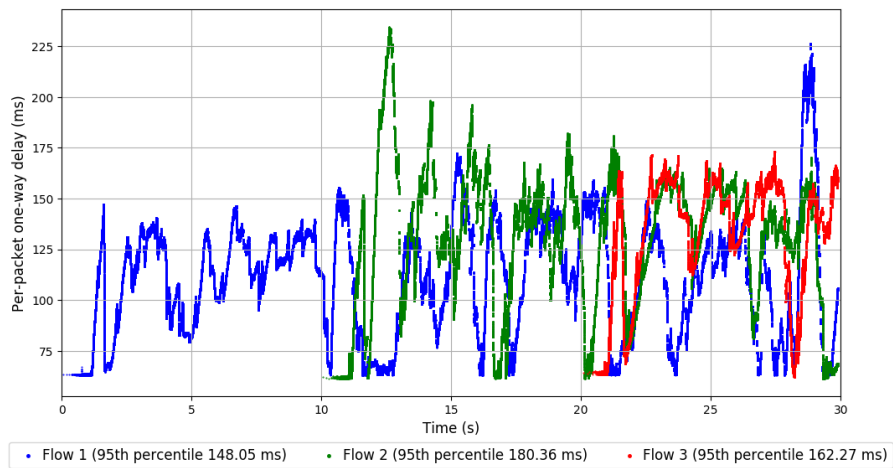
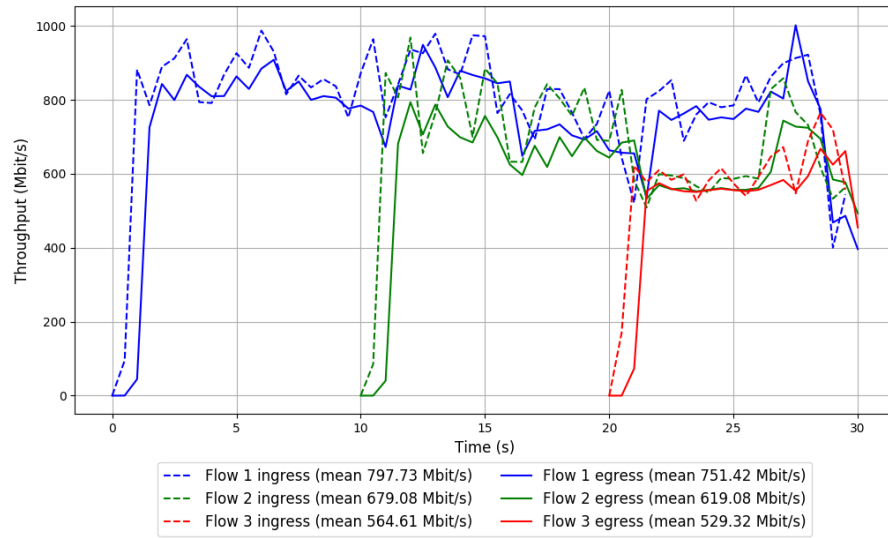
-- Flow 3:

Average throughput: 529.32 Mbit/s

95th percentile per-packet one-way delay: 162.271 ms

Loss rate: 7.47%

Run 6: Report of FillP — Data Link

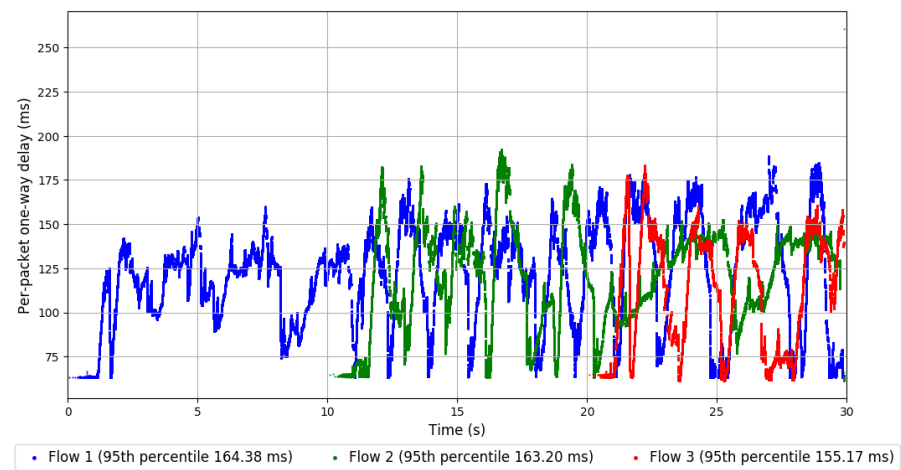
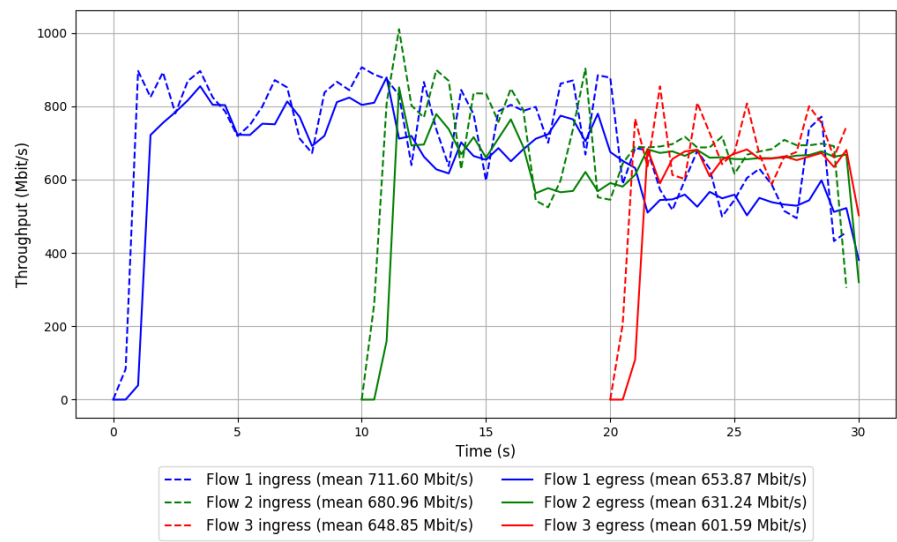


Run 7: Statistics of FillP

Start at: 2018-06-20 00:51:19
End at: 2018-06-20 00:51:49
Local clock offset: -0.043 ms
Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-06-20 03:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 1270.86 Mbit/s
95th percentile per-packet one-way delay: 163.604 ms
Loss rate: 8.30%
-- Flow 1:
Average throughput: 653.87 Mbit/s
95th percentile per-packet one-way delay: 164.380 ms
Loss rate: 8.51%
-- Flow 2:
Average throughput: 631.24 Mbit/s
95th percentile per-packet one-way delay: 163.196 ms
Loss rate: 7.89%
-- Flow 3:
Average throughput: 601.59 Mbit/s
95th percentile per-packet one-way delay: 155.173 ms
Loss rate: 8.49%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-20 01:14:41

End at: 2018-06-20 01:15:11

Local clock offset: -0.019 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-20 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 1242.15 Mbit/s

95th percentile per-packet one-way delay: 209.229 ms

Loss rate: 8.11%

-- Flow 1:

Average throughput: 660.29 Mbit/s

95th percentile per-packet one-way delay: 165.076 ms

Loss rate: 8.07%

-- Flow 2:

Average throughput: 576.24 Mbit/s

95th percentile per-packet one-way delay: 297.341 ms

Loss rate: 7.86%

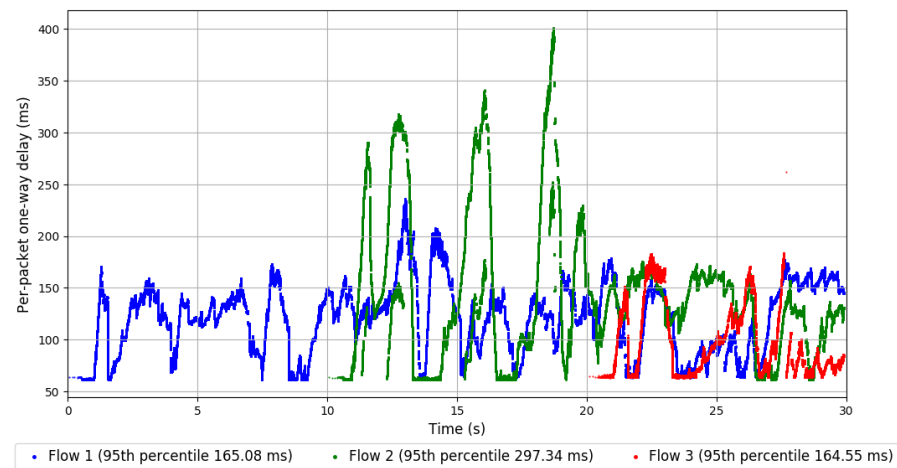
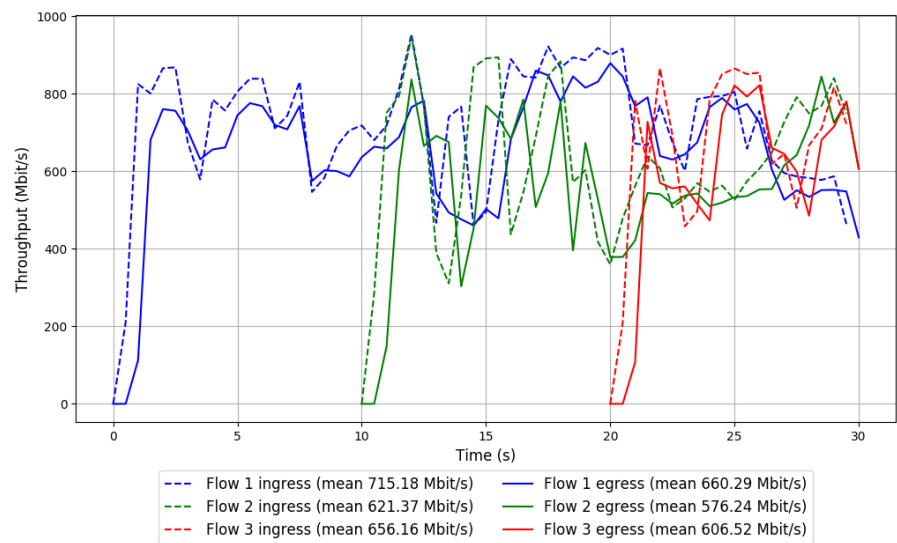
-- Flow 3:

Average throughput: 606.52 Mbit/s

95th percentile per-packet one-way delay: 164.553 ms

Loss rate: 8.74%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-20 01:38:09

End at: 2018-06-20 01:38:39

Local clock offset: 0.087 ms

Remote clock offset: 1.193 ms

Below is generated by plot.py at 2018-06-20 03:49:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 1225.89 Mbit/s

95th percentile per-packet one-way delay: 237.230 ms

Loss rate: 8.63%

-- Flow 1:

Average throughput: 657.03 Mbit/s

95th percentile per-packet one-way delay: 242.632 ms

Loss rate: 6.80%

-- Flow 2:

Average throughput: 576.62 Mbit/s

95th percentile per-packet one-way delay: 197.217 ms

Loss rate: 10.75%

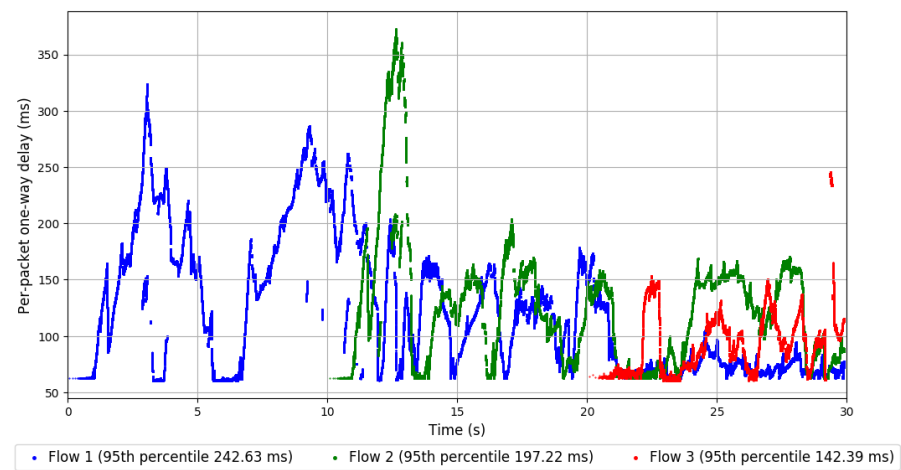
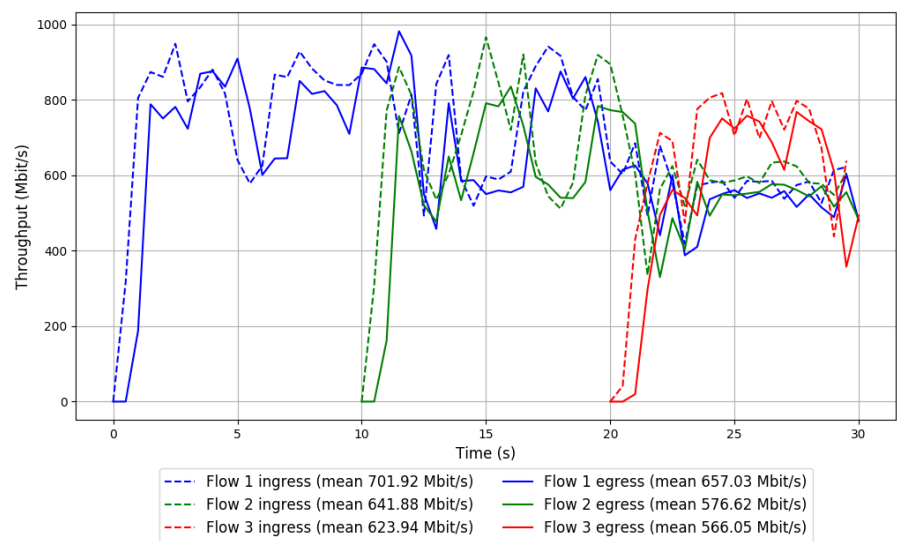
-- Flow 3:

Average throughput: 566.05 Mbit/s

95th percentile per-packet one-way delay: 142.390 ms

Loss rate: 10.47%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-20 02:01:51

End at: 2018-06-20 02:02:21

Local clock offset: -0.044 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-20 03:49:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 1179.90 Mbit/s

95th percentile per-packet one-way delay: 248.861 ms

Loss rate: 4.47%

-- Flow 1:

Average throughput: 601.26 Mbit/s

95th percentile per-packet one-way delay: 216.550 ms

Loss rate: 3.72%

-- Flow 2:

Average throughput: 571.30 Mbit/s

95th percentile per-packet one-way delay: 259.175 ms

Loss rate: 4.96%

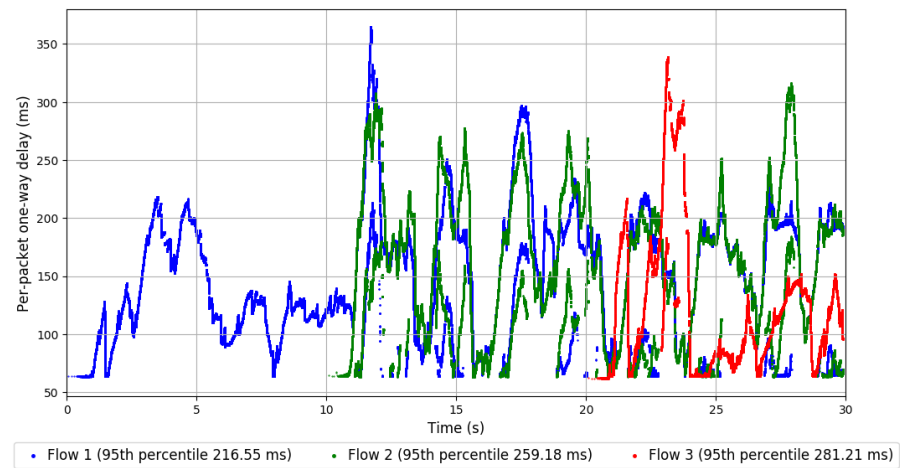
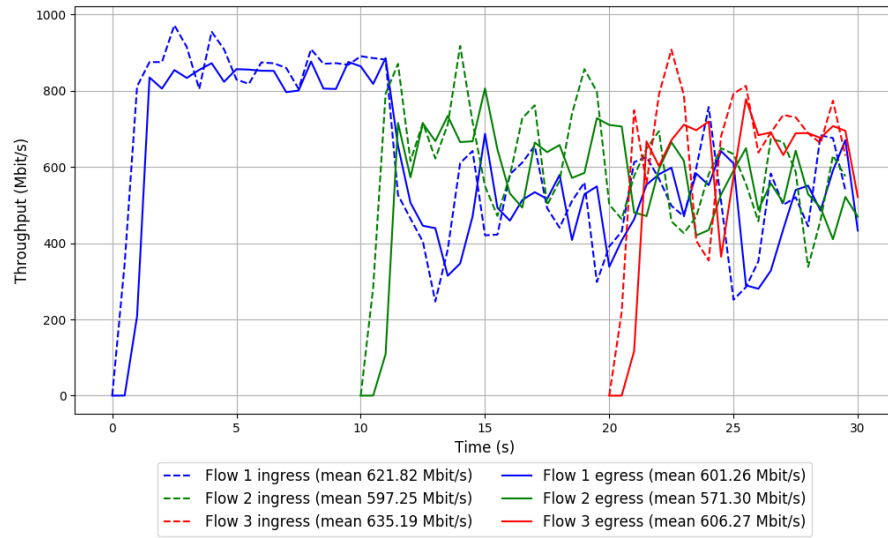
-- Flow 3:

Average throughput: 606.27 Mbit/s

95th percentile per-packet one-way delay: 281.213 ms

Loss rate: 5.76%

Run 10: Report of FillP — Data Link

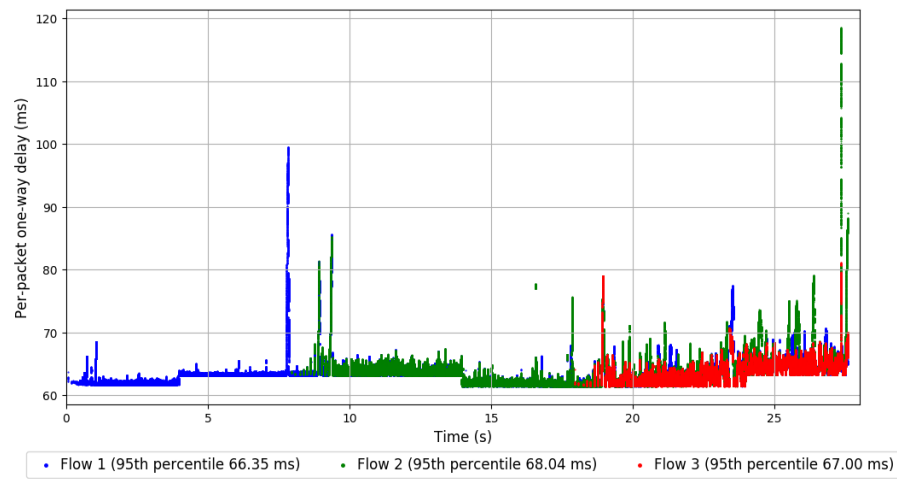
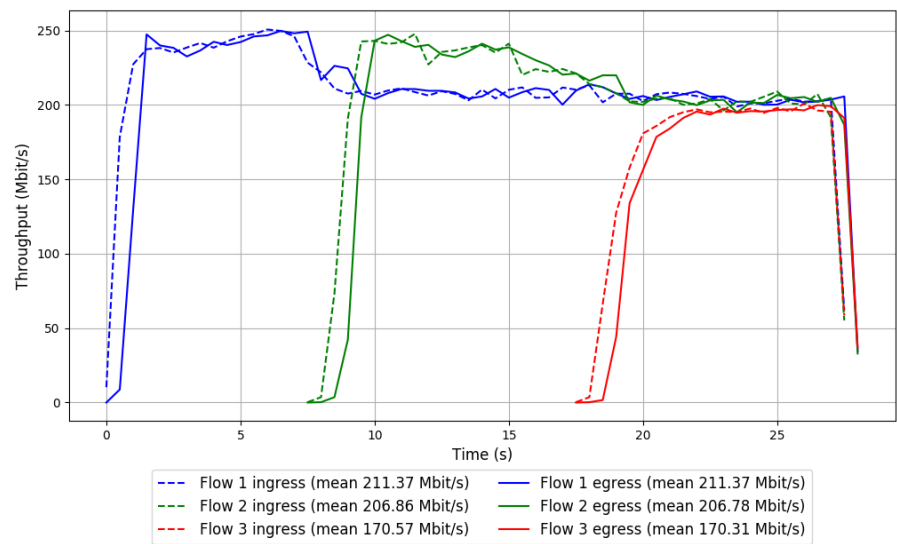


```
Run 1: Statistics of Indigo

Start at: 2018-06-19 22:24:25
End at: 2018-06-19 22:24:55
Local clock offset: 0.623 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.46 Mbit/s
95th percentile per-packet one-way delay: 66.979 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 211.37 Mbit/s
95th percentile per-packet one-way delay: 66.354 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 206.78 Mbit/s
95th percentile per-packet one-way delay: 68.043 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 170.31 Mbit/s
95th percentile per-packet one-way delay: 66.998 ms
Loss rate: 1.47%
```


Run 1: Report of Indigo — Data Link

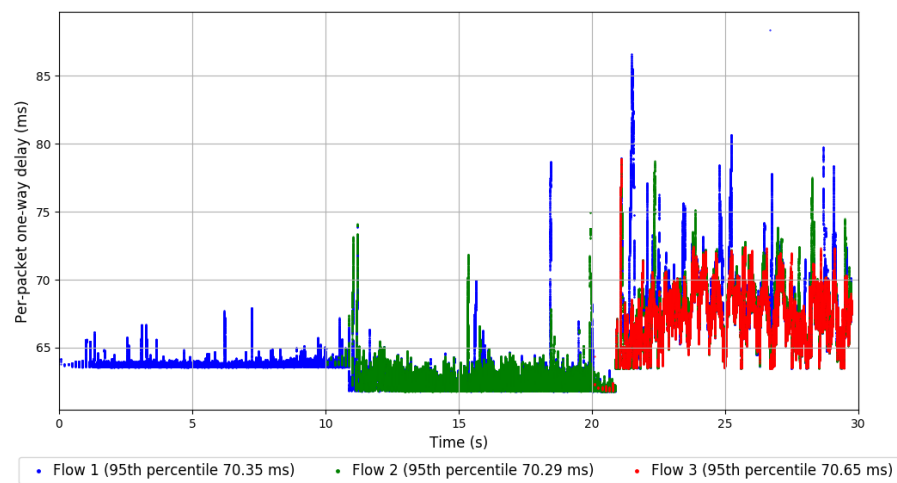
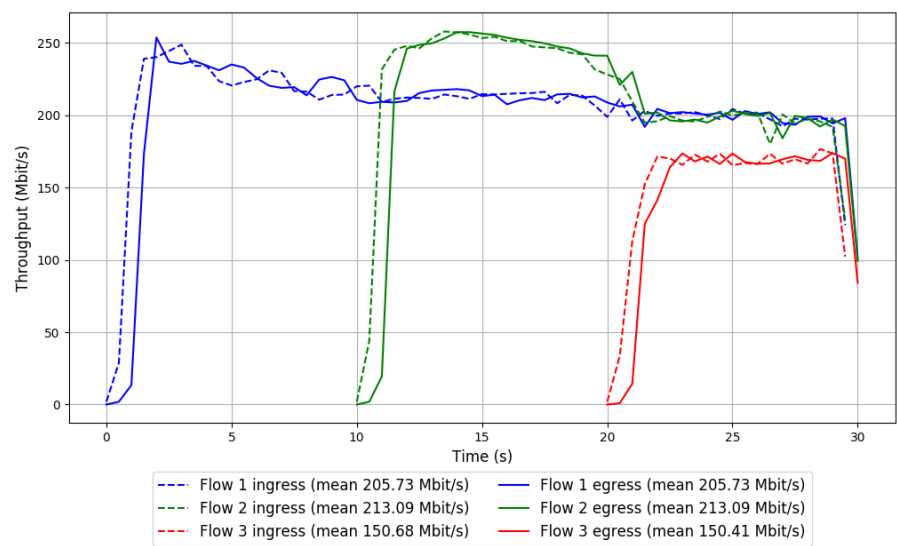


Run 2: Statistics of Indigo

Start at: 2018-06-19 22:47:51
End at: 2018-06-19 22:48:21
Local clock offset: -0.085 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 395.92 Mbit/s
95th percentile per-packet one-way delay: 70.404 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 205.73 Mbit/s
95th percentile per-packet one-way delay: 70.354 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 213.09 Mbit/s
95th percentile per-packet one-way delay: 70.291 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 150.41 Mbit/s
95th percentile per-packet one-way delay: 70.647 ms
Loss rate: 1.47%

Run 2: Report of Indigo — Data Link

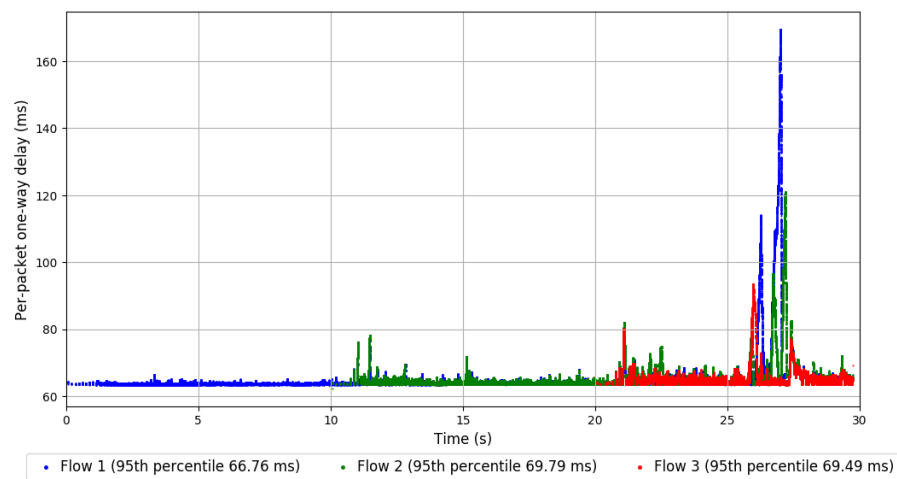
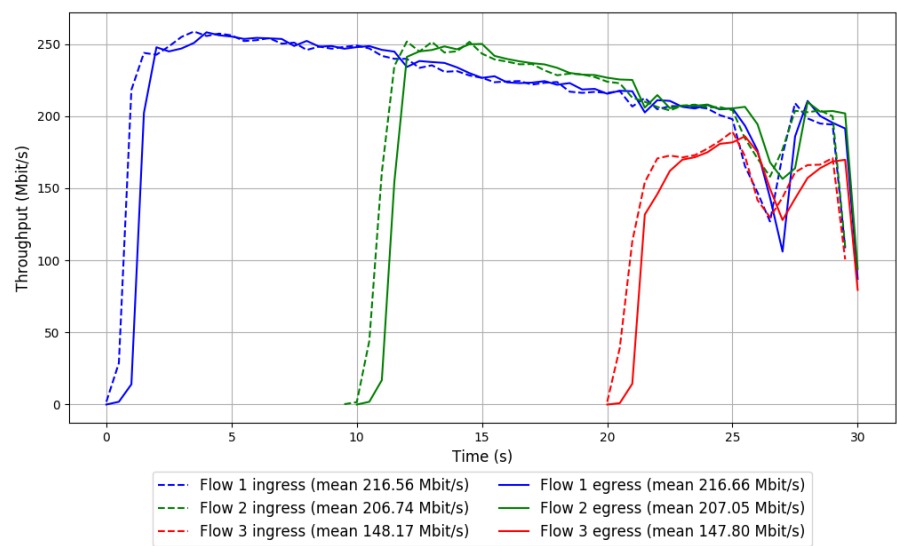


Run 3: Statistics of Indigo

Start at: 2018-06-19 23:11:07
End at: 2018-06-19 23:11:37
Local clock offset: -0.128 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.03 Mbit/s
95th percentile per-packet one-way delay: 68.194 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 216.66 Mbit/s
95th percentile per-packet one-way delay: 66.759 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 207.05 Mbit/s
95th percentile per-packet one-way delay: 69.790 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 147.80 Mbit/s
95th percentile per-packet one-way delay: 69.490 ms
Loss rate: 1.51%

Run 3: Report of Indigo — Data Link

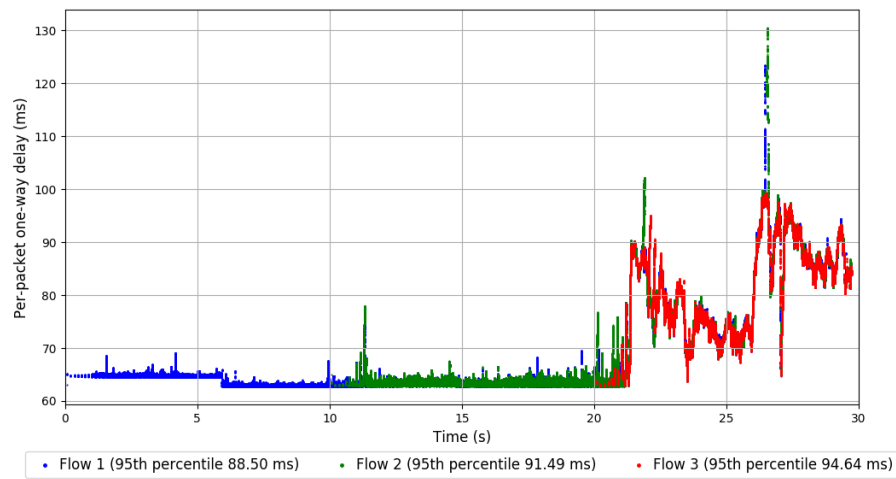
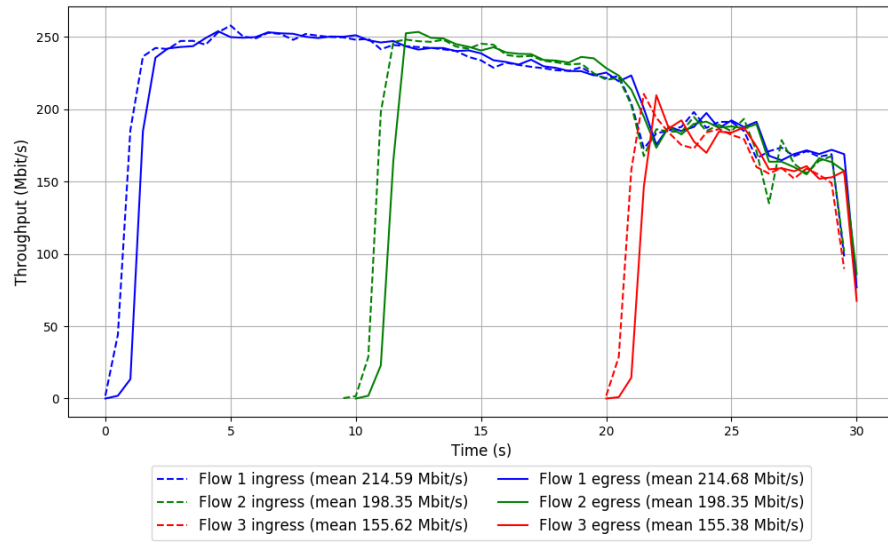


Run 4: Statistics of Indigo

Start at: 2018-06-19 23:34:26
End at: 2018-06-19 23:34:56
Local clock offset: -0.11 ms
Remote clock offset: -1.159 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 396.62 Mbit/s
95th percentile per-packet one-way delay: 91.417 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 214.68 Mbit/s
95th percentile per-packet one-way delay: 88.499 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 198.35 Mbit/s
95th percentile per-packet one-way delay: 91.493 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 155.38 Mbit/s
95th percentile per-packet one-way delay: 94.640 ms
Loss rate: 1.44%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-19 23:58:01

End at: 2018-06-19 23:58:31

Local clock offset: -0.14 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-06-20 03:49:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.64 Mbit/s

95th percentile per-packet one-way delay: 70.106 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 205.23 Mbit/s

95th percentile per-packet one-way delay: 68.789 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 210.49 Mbit/s

95th percentile per-packet one-way delay: 70.023 ms

Loss rate: 0.60%

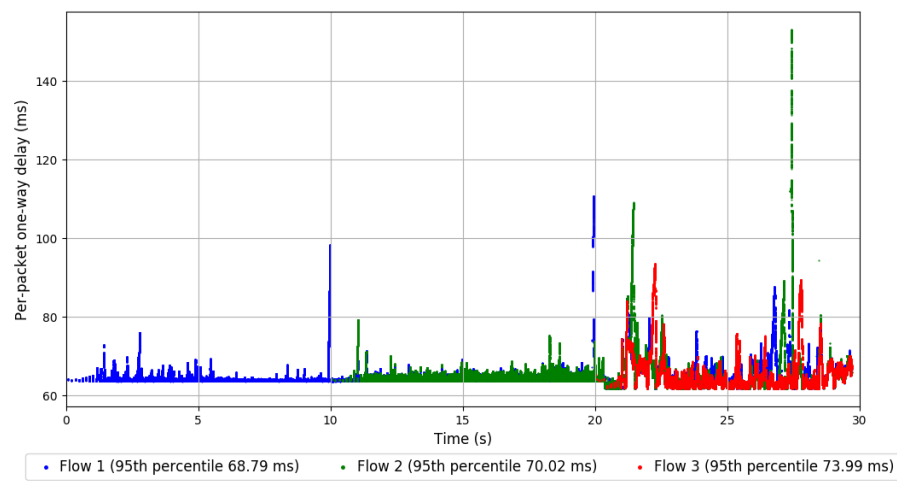
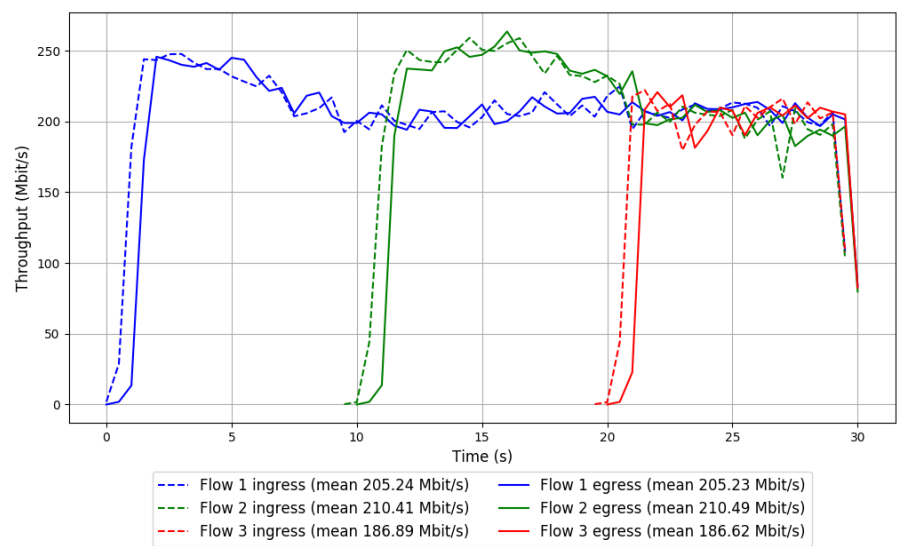
-- Flow 3:

Average throughput: 186.62 Mbit/s

95th percentile per-packet one-way delay: 73.986 ms

Loss rate: 1.41%

Run 5: Report of Indigo — Data Link

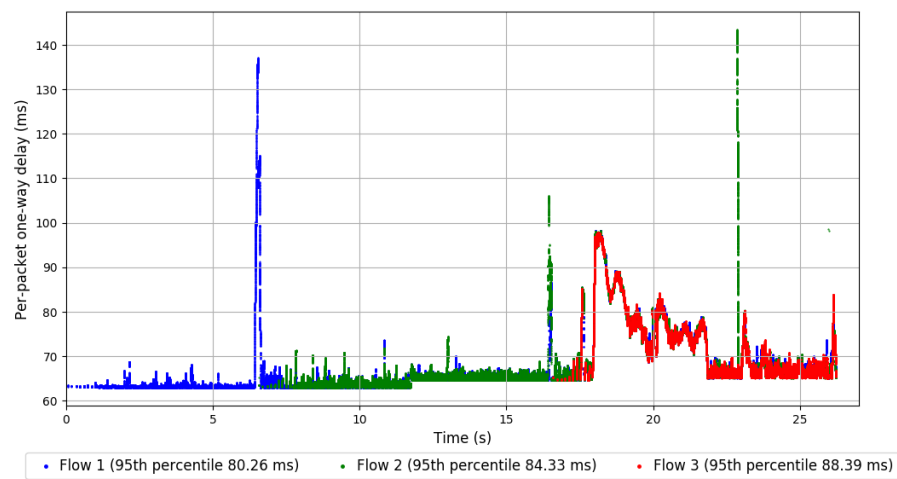
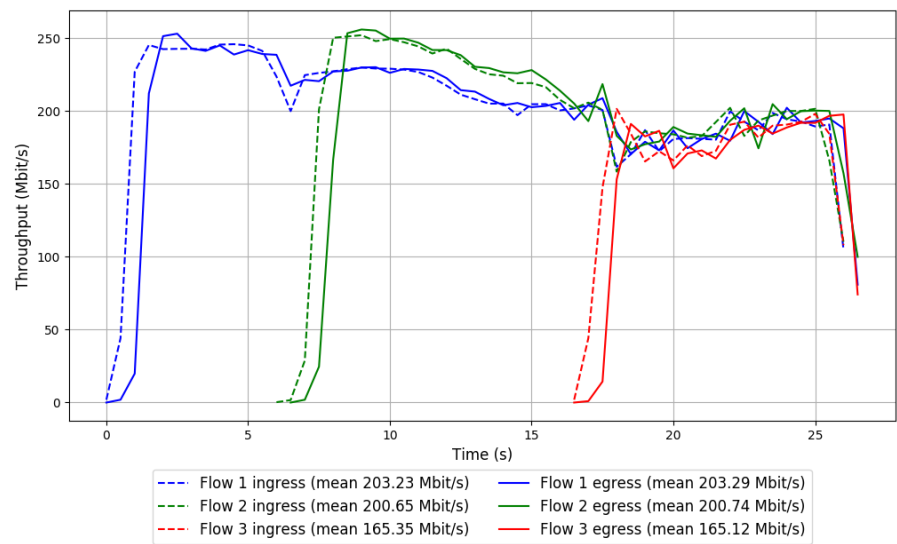


Run 6: Statistics of Indigo

Start at: 2018-06-20 00:21:36
End at: 2018-06-20 00:22:06
Local clock offset: -0.07 ms
Remote clock offset: -1.381 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 414.97 Mbit/s
95th percentile per-packet one-way delay: 84.503 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 203.29 Mbit/s
95th percentile per-packet one-way delay: 80.259 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 200.74 Mbit/s
95th percentile per-packet one-way delay: 84.331 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 165.12 Mbit/s
95th percentile per-packet one-way delay: 88.389 ms
Loss rate: 1.45%

Run 6: Report of Indigo — Data Link

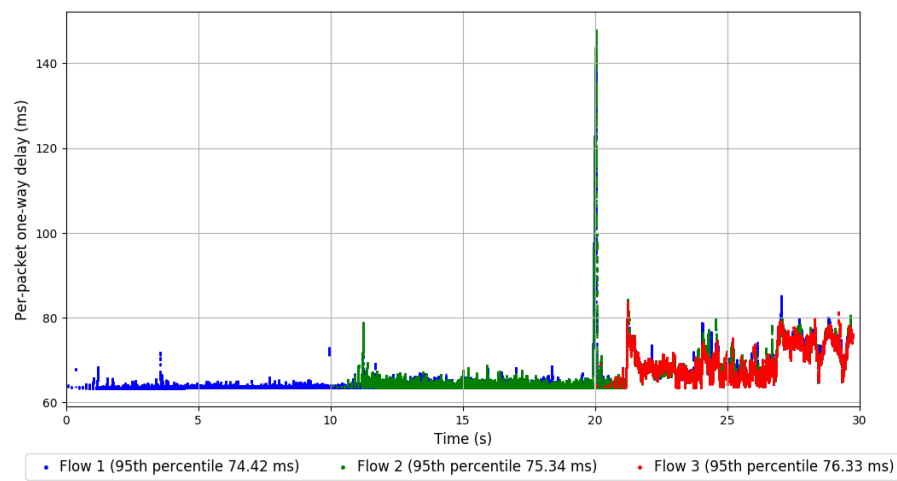
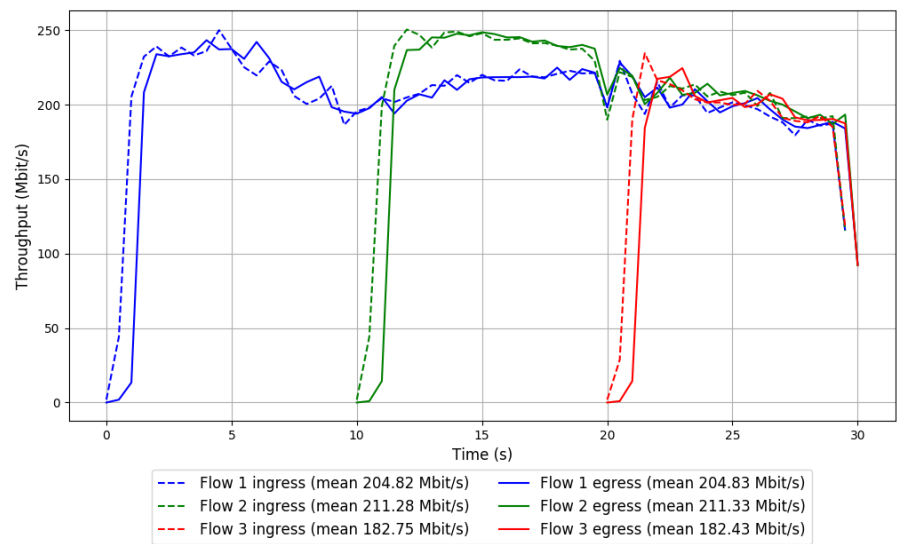


Run 7: Statistics of Indigo

Start at: 2018-06-20 00:44:37
End at: 2018-06-20 00:45:07
Local clock offset: 0.006 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 404.06 Mbit/s
95th percentile per-packet one-way delay: 75.207 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 204.83 Mbit/s
95th percentile per-packet one-way delay: 74.417 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 211.33 Mbit/s
95th percentile per-packet one-way delay: 75.342 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 182.43 Mbit/s
95th percentile per-packet one-way delay: 76.330 ms
Loss rate: 1.47%

Run 7: Report of Indigo — Data Link

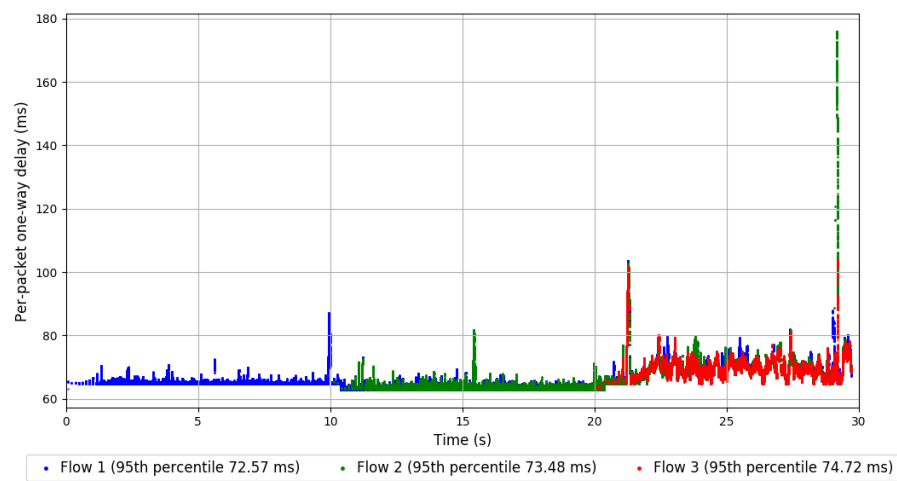
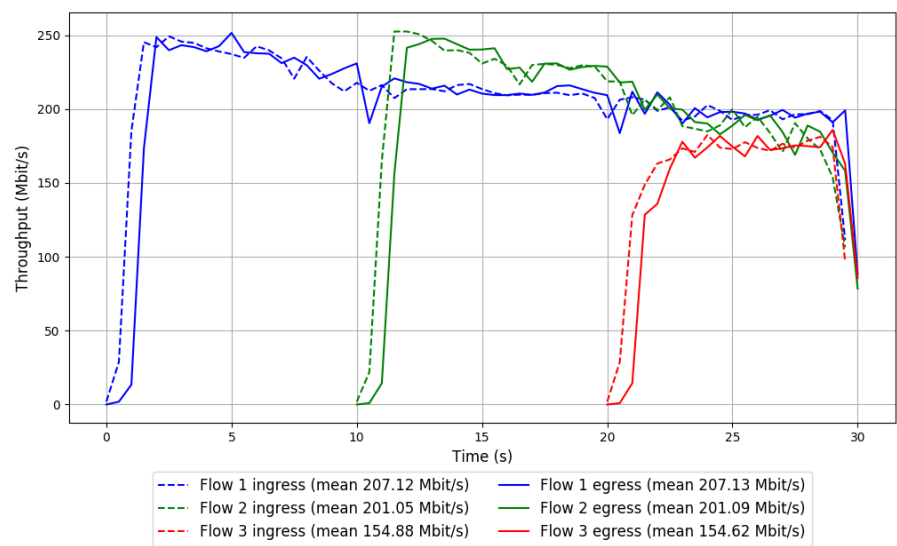


Run 8: Statistics of Indigo

Start at: 2018-06-20 01:08:11
End at: 2018-06-20 01:08:41
Local clock offset: -0.044 ms
Remote clock offset: -1.344 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 390.05 Mbit/s
95th percentile per-packet one-way delay: 73.324 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 207.13 Mbit/s
95th percentile per-packet one-way delay: 72.570 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 201.09 Mbit/s
95th percentile per-packet one-way delay: 73.479 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 154.62 Mbit/s
95th percentile per-packet one-way delay: 74.716 ms
Loss rate: 1.51%

Run 8: Report of Indigo — Data Link

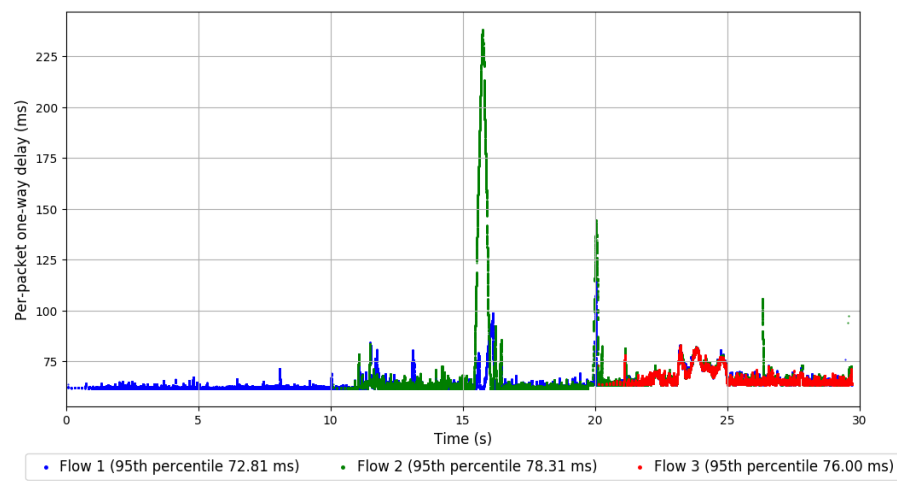
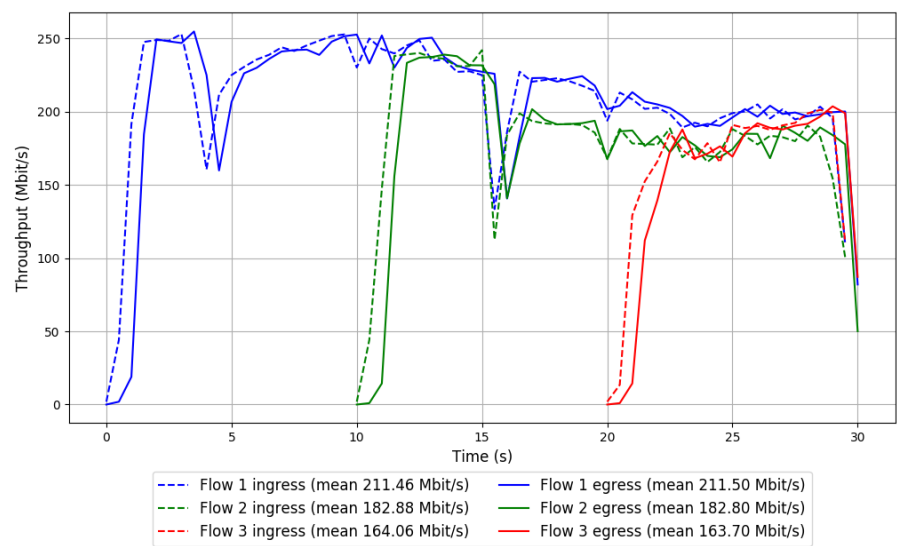


Run 9: Statistics of Indigo

Start at: 2018-06-20 01:31:42
End at: 2018-06-20 01:32:12
Local clock offset: 0.019 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 385.14 Mbit/s
95th percentile per-packet one-way delay: 75.089 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 211.50 Mbit/s
95th percentile per-packet one-way delay: 72.805 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 182.80 Mbit/s
95th percentile per-packet one-way delay: 78.315 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 163.70 Mbit/s
95th percentile per-packet one-way delay: 75.996 ms
Loss rate: 1.54%

Run 9: Report of Indigo — Data Link

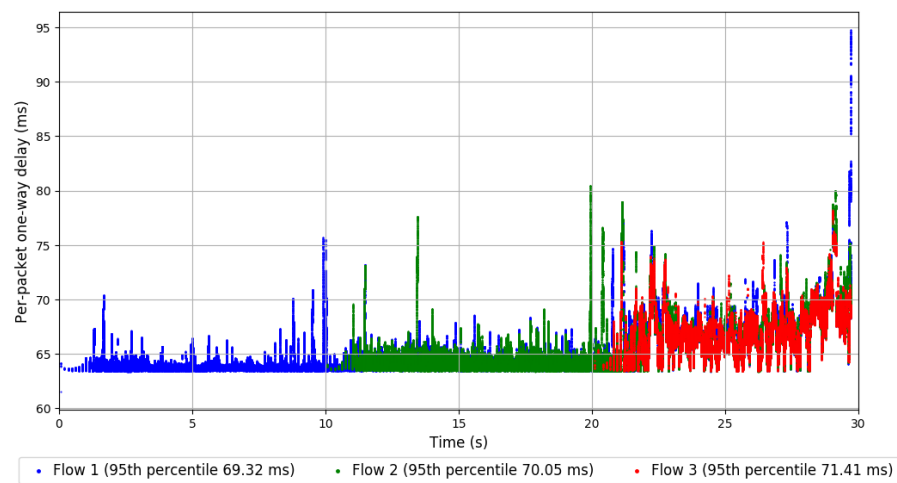
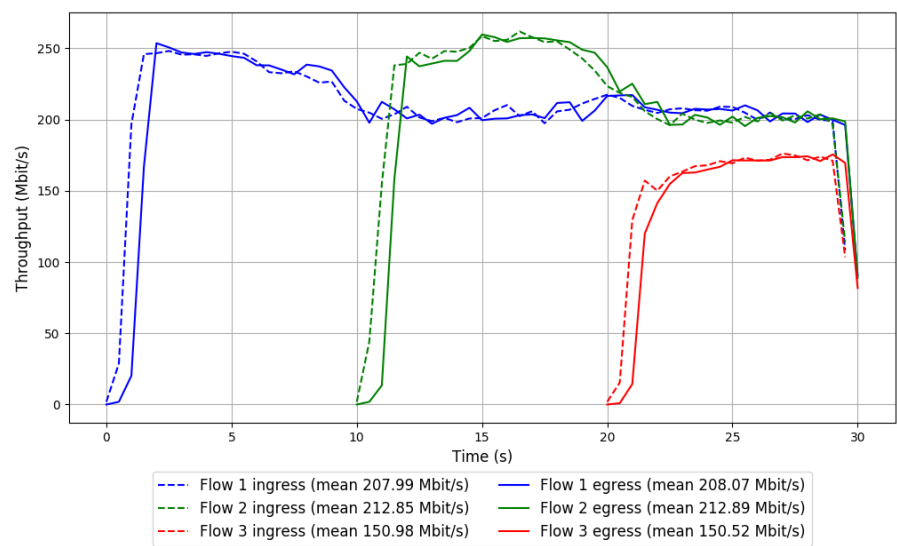


Run 10: Statistics of Indigo

Start at: 2018-06-20 01:55:09
End at: 2018-06-20 01:55:39
Local clock offset: -0.029 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 397.91 Mbit/s
95th percentile per-packet one-way delay: 69.933 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 208.07 Mbit/s
95th percentile per-packet one-way delay: 69.324 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 212.89 Mbit/s
95th percentile per-packet one-way delay: 70.052 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 150.52 Mbit/s
95th percentile per-packet one-way delay: 71.405 ms
Loss rate: 1.59%

Run 10: Report of Indigo — Data Link

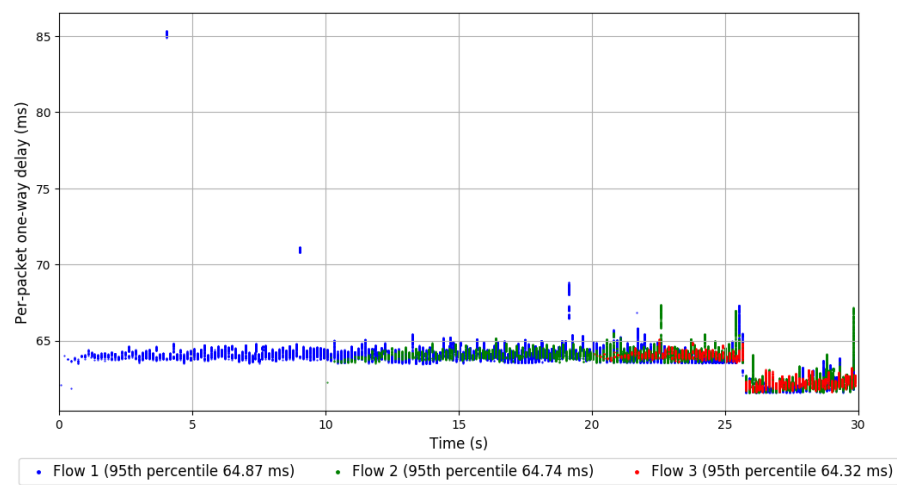
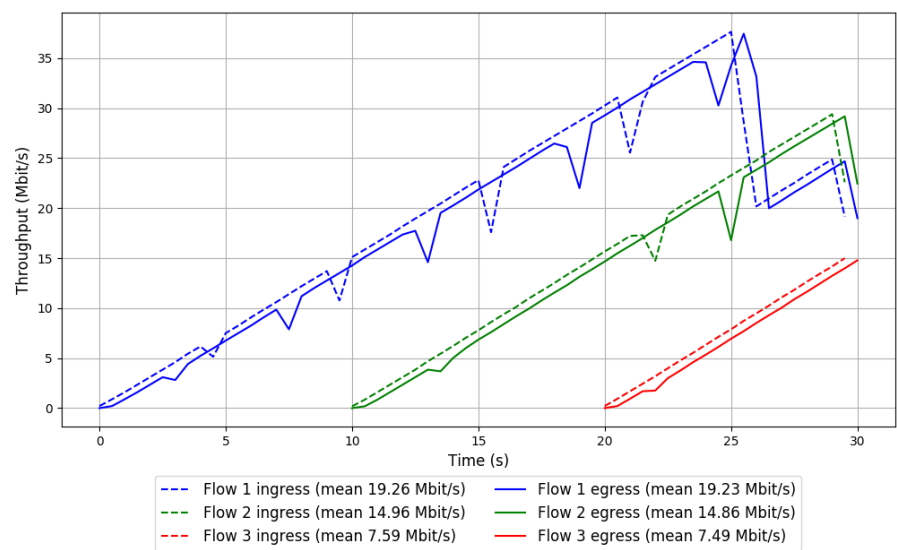


Run 1: Statistics of LEDBAT

Start at: 2018-06-19 22:19:16
End at: 2018-06-19 22:19:46
Local clock offset: 0.596 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-06-20 03:49:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 64.803 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 19.23 Mbit/s
95th percentile per-packet one-way delay: 64.870 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 64.740 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 64.321 ms
Loss rate: 2.54%

Run 1: Report of LEDBAT — Data Link

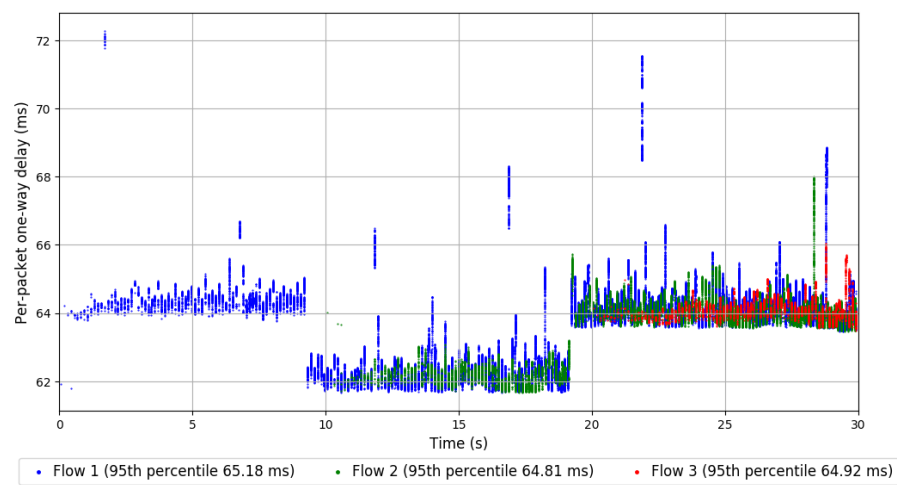
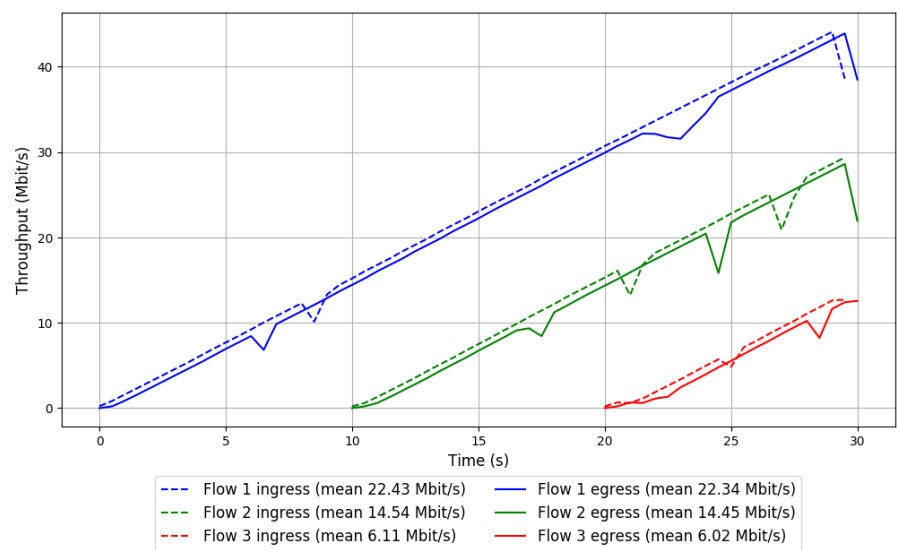


Run 2: Statistics of LEDBAT

Start at: 2018-06-19 22:42:43
End at: 2018-06-19 22:43:13
Local clock offset: 0.002 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-06-20 03:49:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 65.026 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 65.184 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 64.809 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 64.920 ms
Loss rate: 2.77%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-19 23:06:04

End at: 2018-06-19 23:06:34

Local clock offset: -0.2 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-20 03:49:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 64.580 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 64.652 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 64.270 ms

Loss rate: 1.28%

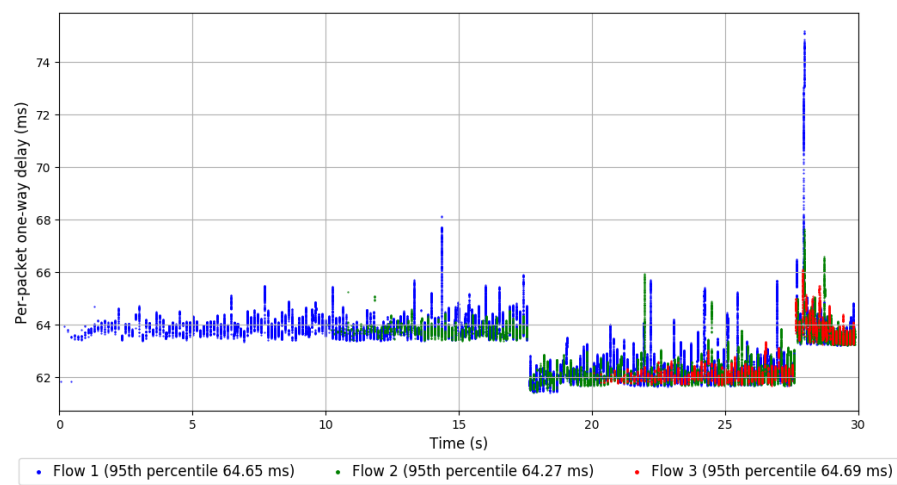
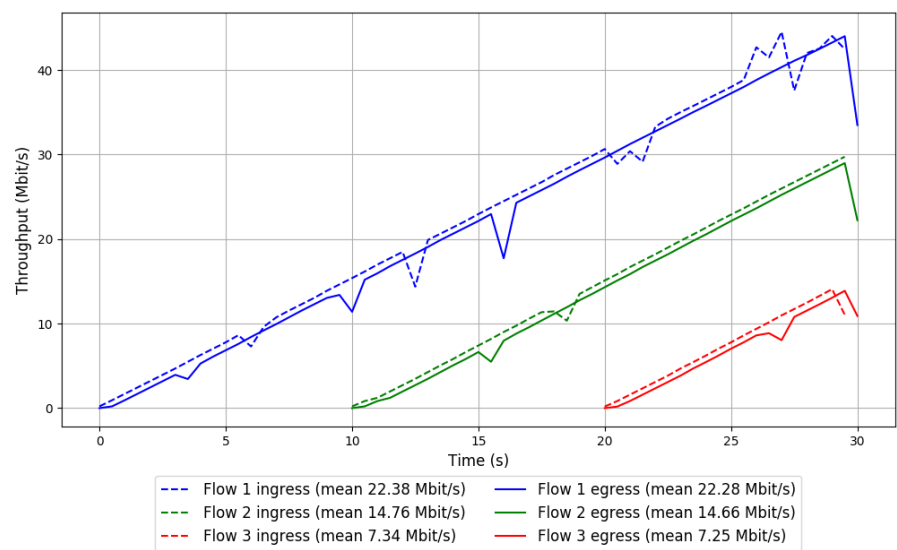
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 64.686 ms

Loss rate: 2.58%

Run 3: Report of LEDBAT — Data Link

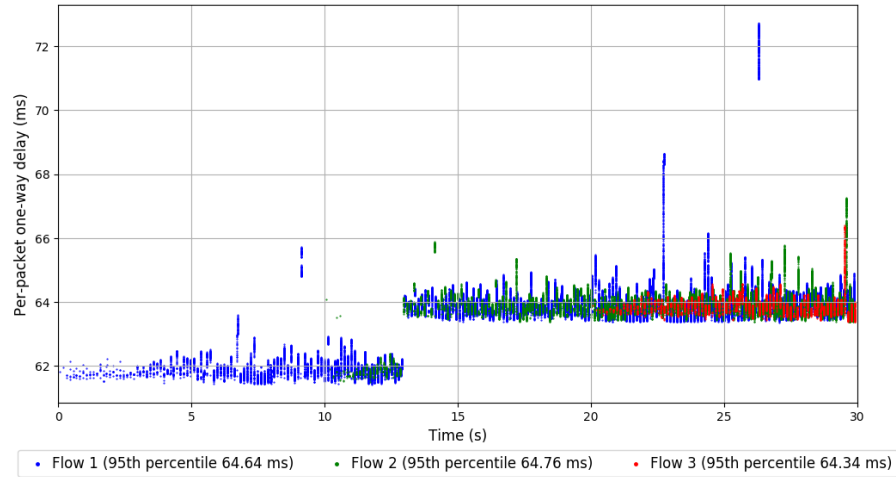
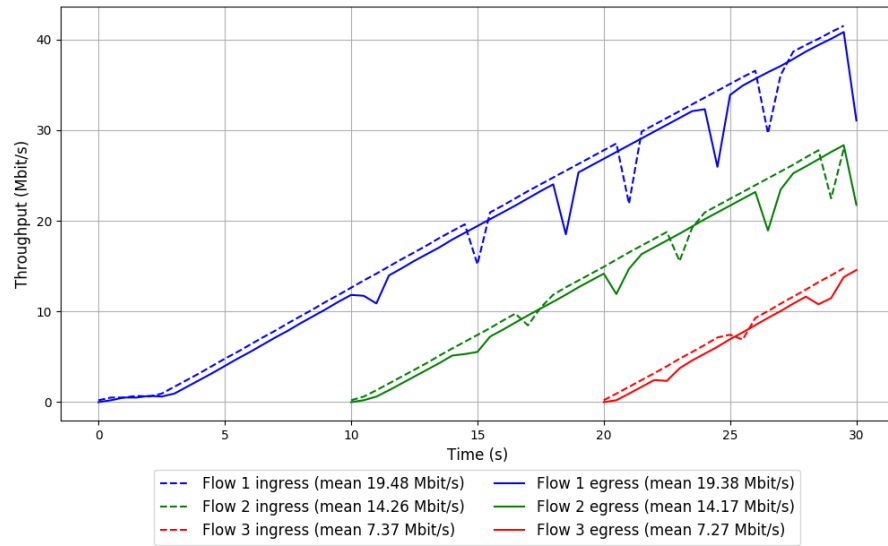


Run 4: Statistics of LEDBAT

Start at: 2018-06-19 23:29:19
End at: 2018-06-19 23:29:49
Local clock offset: -0.103 ms
Remote clock offset: 0.005 ms

```
# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 64.654 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 19.38 Mbit/s
95th percentile per-packet one-way delay: 64.645 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 14.17 Mbit/s
95th percentile per-packet one-way delay: 64.763 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 64.338 ms
Loss rate: 2.57%
```

Run 4: Report of LEDBAT — Data Link

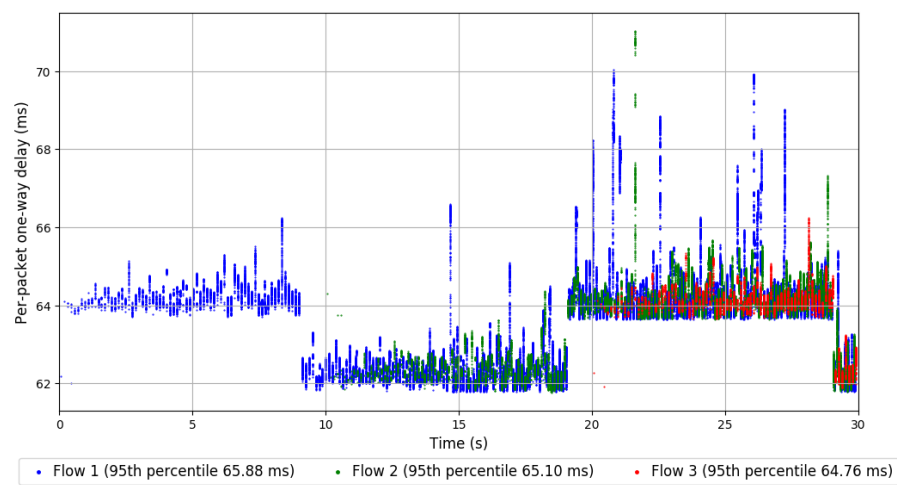
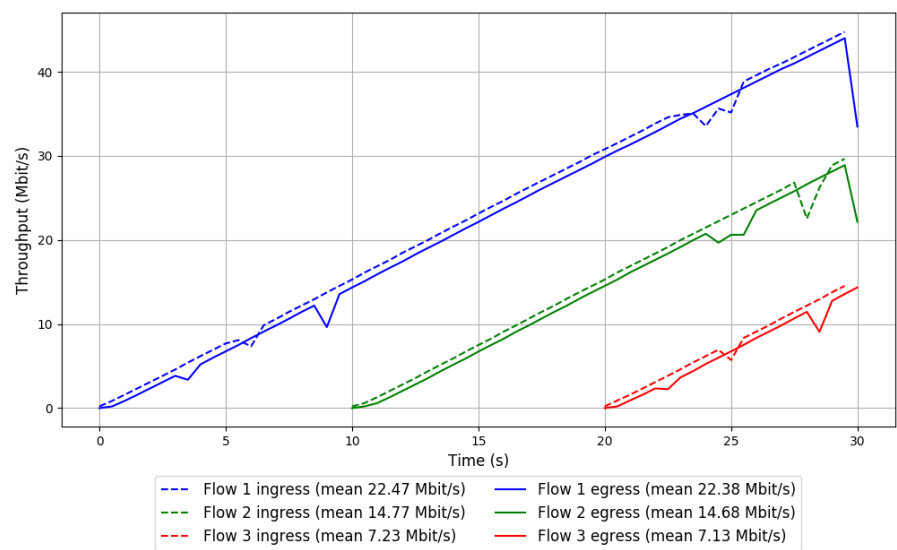


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 23:52:53
End at: 2018-06-19 23:53:23
Local clock offset: -0.084 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-06-20 03:49:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.41 Mbit/s
95th percentile per-packet one-way delay: 65.290 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 22.38 Mbit/s
95th percentile per-packet one-way delay: 65.879 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 65.096 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 64.762 ms
Loss rate: 2.58%

Run 5: Report of LEDBAT — Data Link

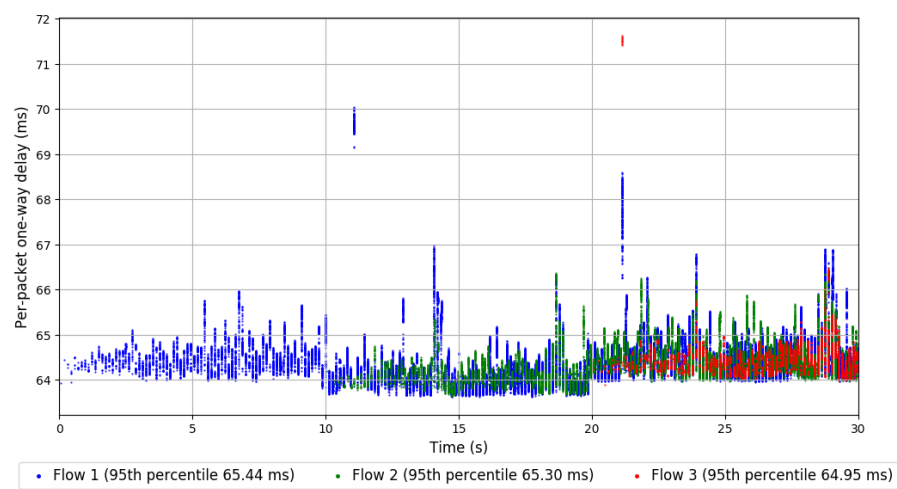
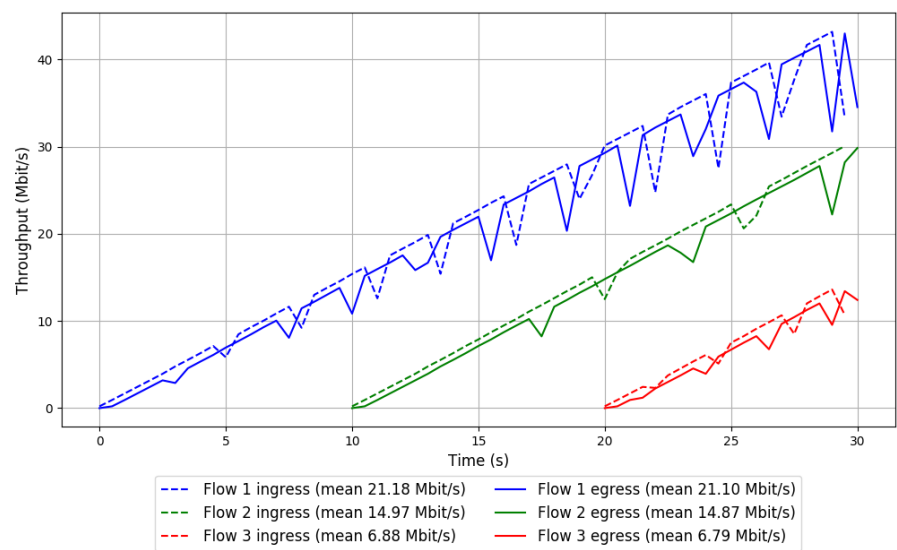


Run 6: Statistics of LEDBAT

Start at: 2018-06-20 00:16:32
End at: 2018-06-20 00:17:02
Local clock offset: -0.088 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2018-06-20 03:49:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 65.365 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 65.435 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 14.87 Mbit/s
95th percentile per-packet one-way delay: 65.299 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 64.953 ms
Loss rate: 1.30%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-20 00:39:31

End at: 2018-06-20 00:40:01

Local clock offset: -0.029 ms

Remote clock offset: 0.951 ms

Below is generated by plot.py at 2018-06-20 03:49:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 64.002 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 20.76 Mbit/s

95th percentile per-packet one-way delay: 64.090 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 63.943 ms

Loss rate: 1.31%

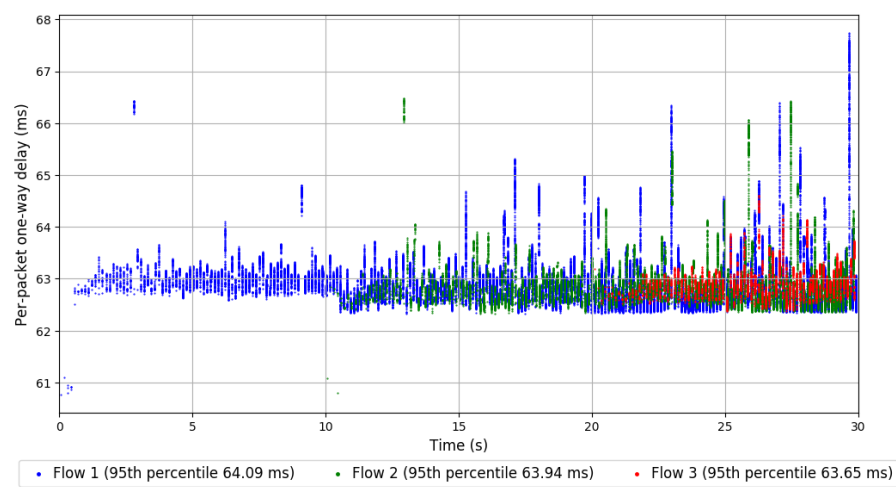
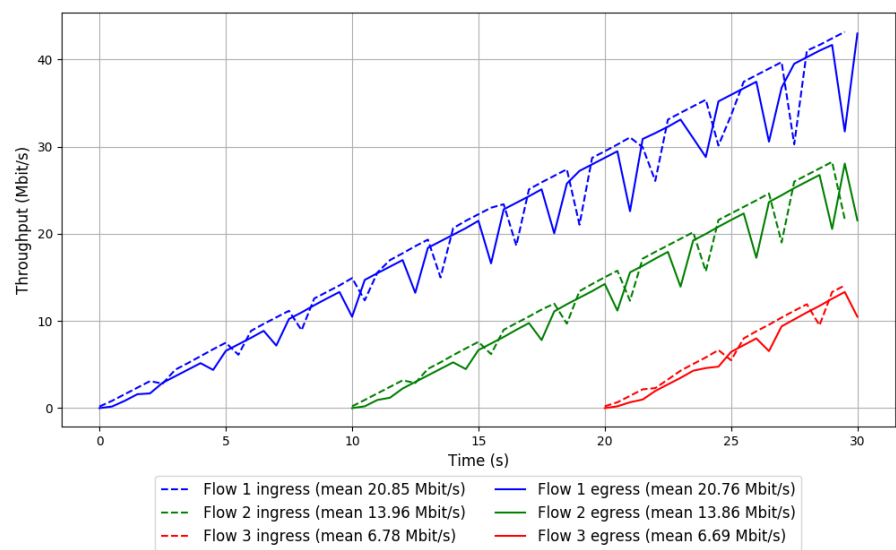
-- Flow 3:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 2.68%

Run 7: Report of LEDBAT — Data Link

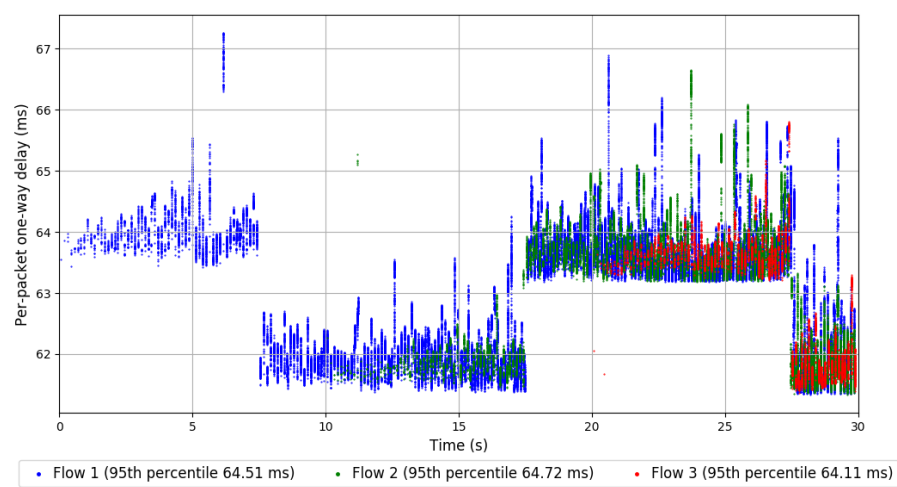
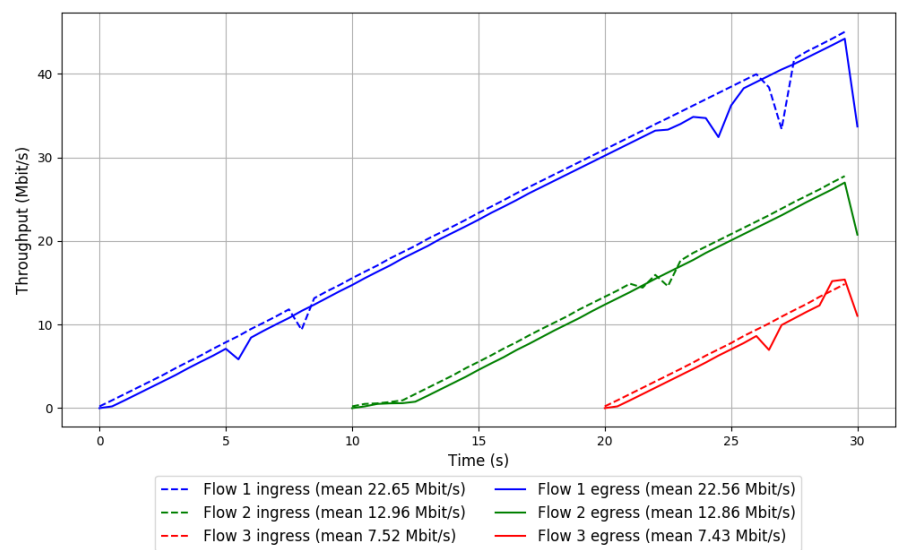


Run 8: Statistics of LEDBAT

Start at: 2018-06-20 01:03:04
End at: 2018-06-20 01:03:34
Local clock offset: -0.051 ms
Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-06-20 03:49:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.51 Mbit/s
95th percentile per-packet one-way delay: 64.530 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 64.514 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 64.719 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 64.113 ms
Loss rate: 2.55%

Run 8: Report of LEDBAT — Data Link

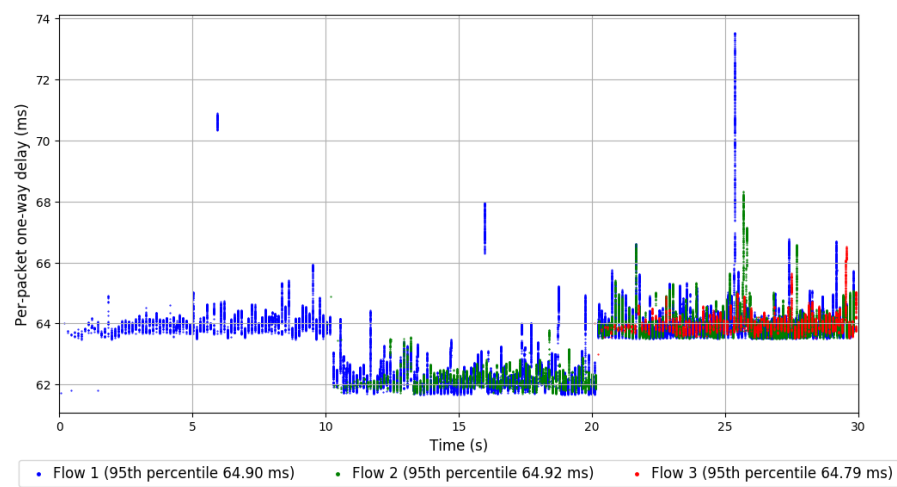
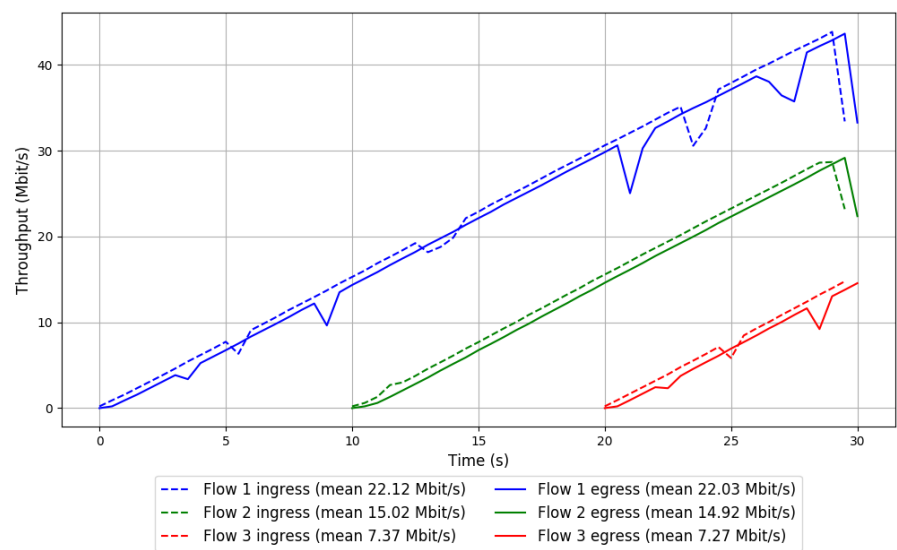


Run 9: Statistics of LEDBAT

Start at: 2018-06-20 01:26:32
End at: 2018-06-20 01:27:02
Local clock offset: 0.02 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-06-20 03:49:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 64.897 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 22.03 Mbit/s
95th percentile per-packet one-way delay: 64.898 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 64.916 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 64.792 ms
Loss rate: 2.57%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-20 01:49:59

End at: 2018-06-20 01:50:29

Local clock offset: 0.043 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-20 03:49:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 65.238 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 22.19 Mbit/s

95th percentile per-packet one-way delay: 65.374 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 65.090 ms

Loss rate: 1.27%

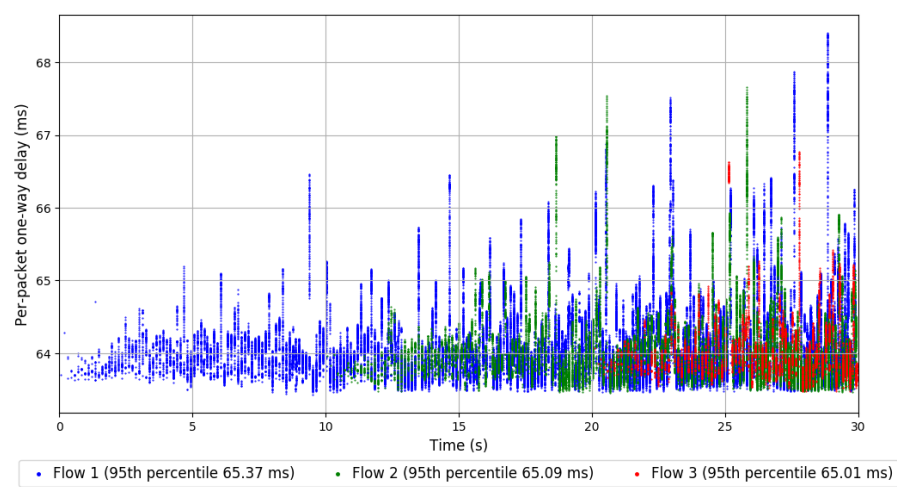
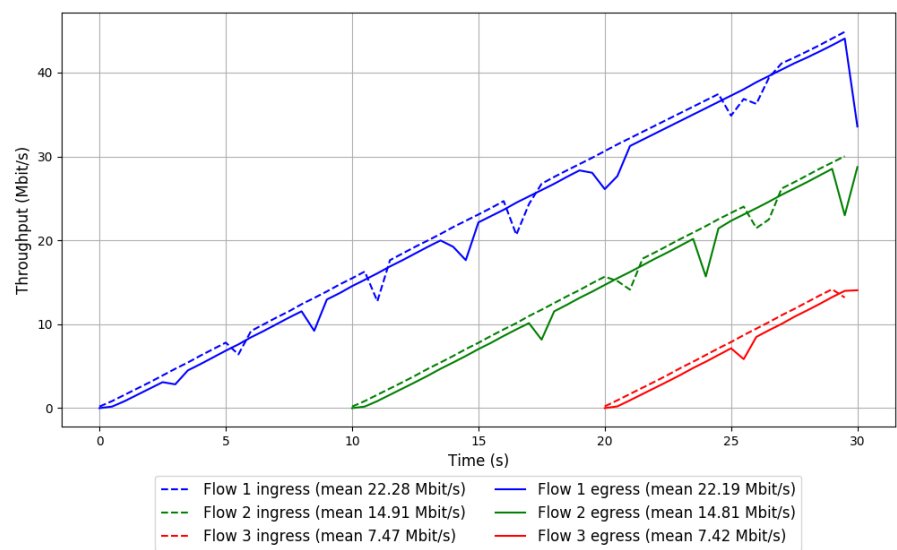
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 65.007 ms

Loss rate: 1.84%

Run 10: Report of LEDBAT — Data Link

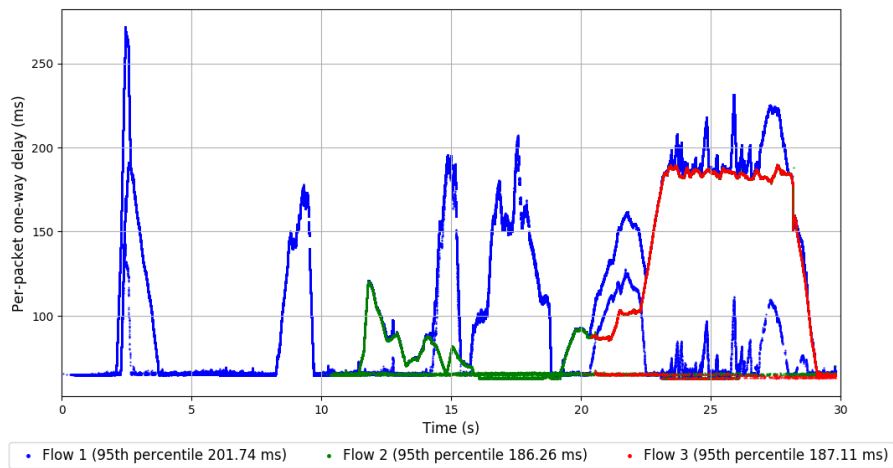
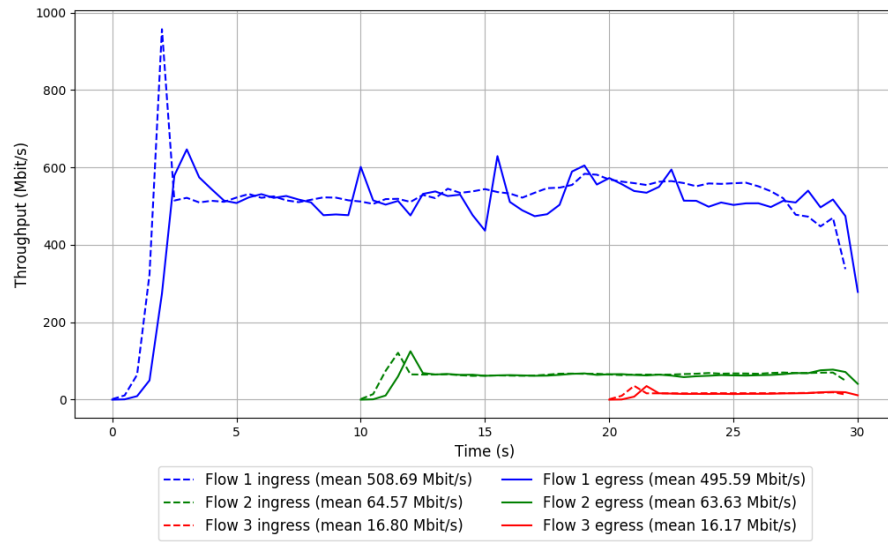


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 22:13:55
End at: 2018-06-19 22:14:25
Local clock offset: 0.548 ms
Remote clock offset: -1.192 ms

Below is generated by plot.py at 2018-06-20 03:49:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 542.98 Mbit/s
95th percentile per-packet one-way delay: 200.437 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 495.59 Mbit/s
95th percentile per-packet one-way delay: 201.743 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 63.63 Mbit/s
95th percentile per-packet one-way delay: 186.257 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 16.17 Mbit/s
95th percentile per-packet one-way delay: 187.110 ms
Loss rate: 5.03%

Run 1: Report of PCC-Allegro — Data Link

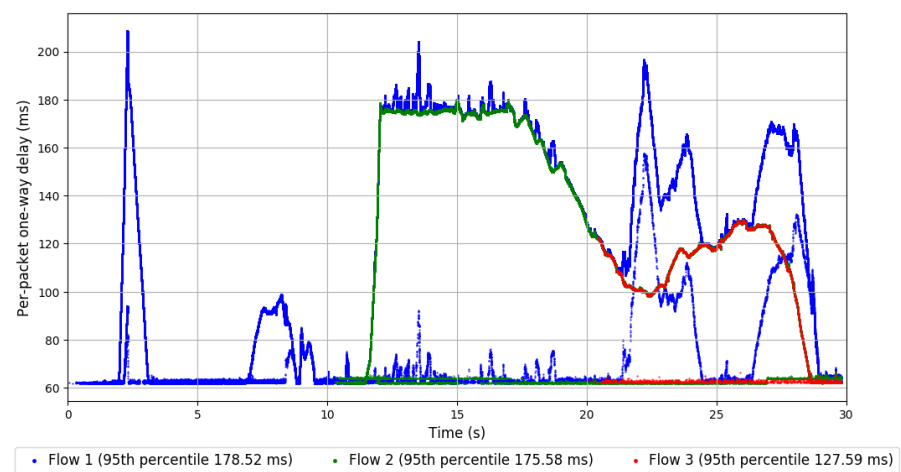
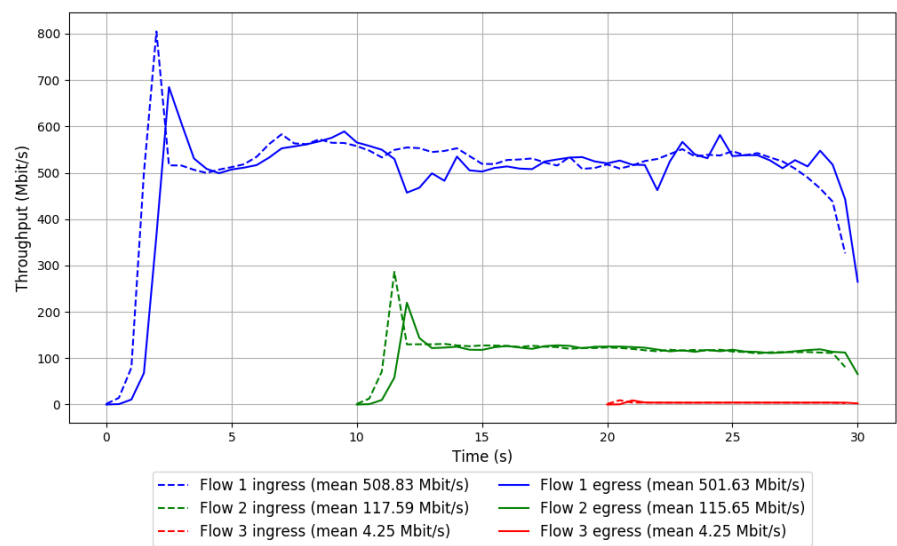


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 22:37:25
End at: 2018-06-19 22:37:55
Local clock offset: 0.236 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-06-20 03:49:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 579.75 Mbit/s
95th percentile per-packet one-way delay: 178.037 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 501.63 Mbit/s
95th percentile per-packet one-way delay: 178.521 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 115.65 Mbit/s
95th percentile per-packet one-way delay: 175.580 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 127.590 ms
Loss rate: 1.28%

Run 2: Report of PCC-Allegro — Data Link

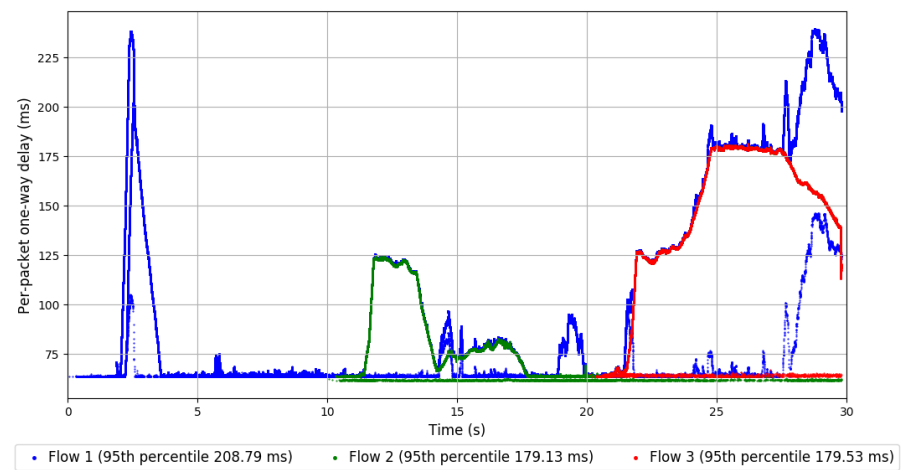
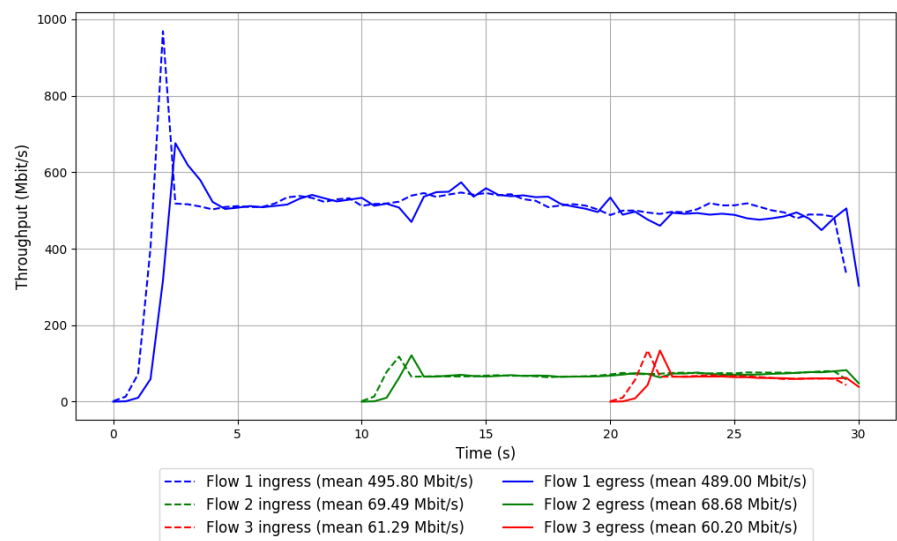


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 23:00:45
End at: 2018-06-19 23:01:15
Local clock offset: -0.209 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-20 03:49:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 554.20 Mbit/s
95th percentile per-packet one-way delay: 205.867 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 489.00 Mbit/s
95th percentile per-packet one-way delay: 208.795 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 68.68 Mbit/s
95th percentile per-packet one-way delay: 179.131 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 60.20 Mbit/s
95th percentile per-packet one-way delay: 179.528 ms
Loss rate: 3.06%

Run 3: Report of PCC-Allegro — Data Link

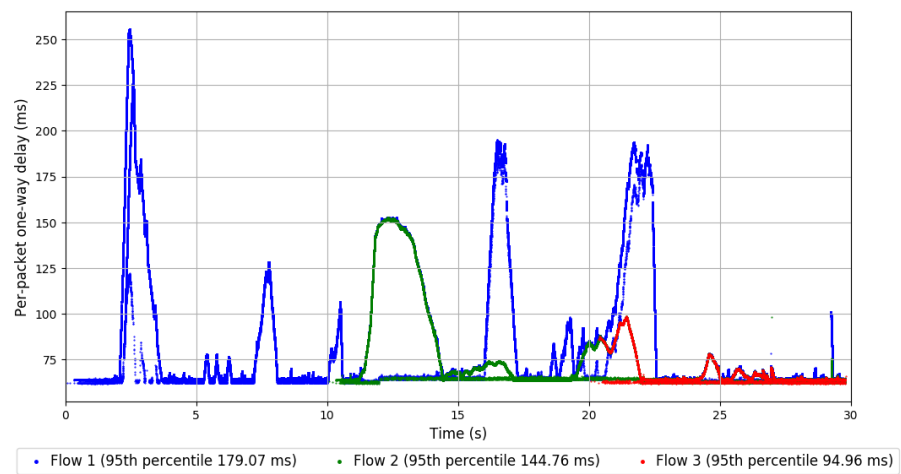
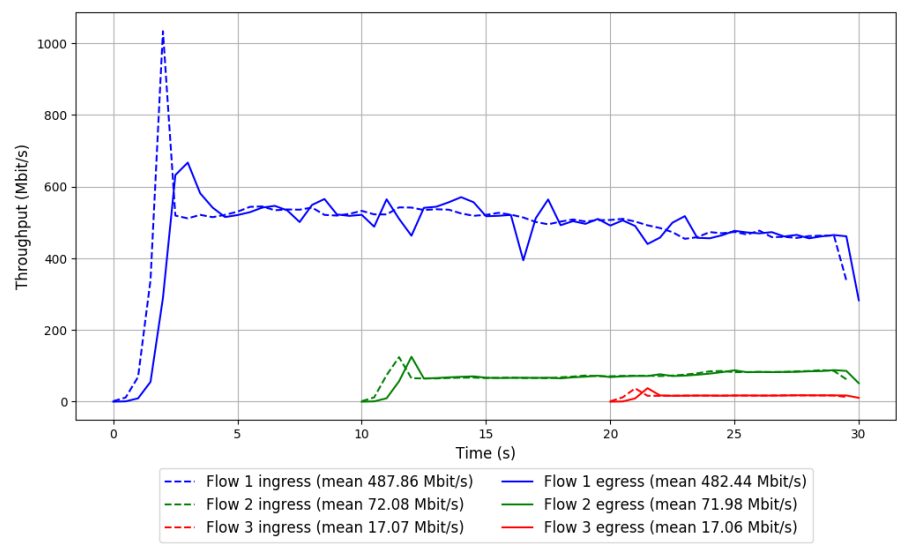


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 23:24:00
End at: 2018-06-19 23:24:30
Local clock offset: -0.143 ms
Remote clock offset: -0.327 ms

Below is generated by plot.py at 2018-06-20 03:49:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 535.73 Mbit/s
95th percentile per-packet one-way delay: 177.275 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 482.44 Mbit/s
95th percentile per-packet one-way delay: 179.074 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 71.98 Mbit/s
95th percentile per-packet one-way delay: 144.760 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 17.06 Mbit/s
95th percentile per-packet one-way delay: 94.960 ms
Loss rate: 1.32%

Run 4: Report of PCC-Allegro — Data Link

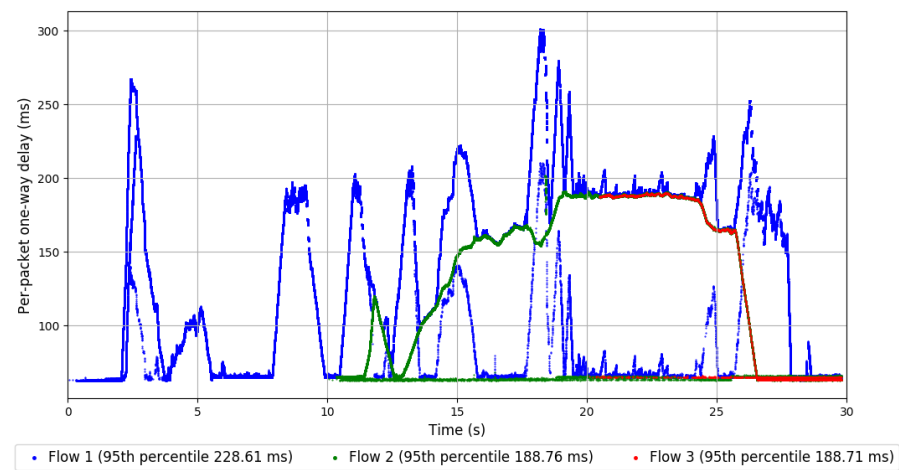
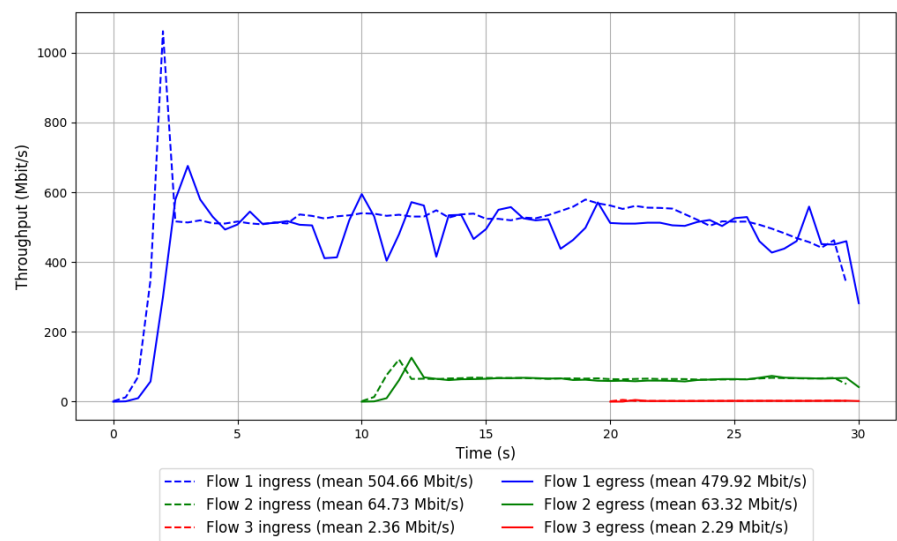


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 23:47:36
End at: 2018-06-19 23:48:06
Local clock offset: -0.15 ms
Remote clock offset: -1.377 ms

Below is generated by plot.py at 2018-06-20 03:50:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 522.65 Mbit/s
95th percentile per-packet one-way delay: 226.261 ms
Loss rate: 5.11%
-- Flow 1:
Average throughput: 479.92 Mbit/s
95th percentile per-packet one-way delay: 228.607 ms
Loss rate: 5.30%
-- Flow 2:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 188.765 ms
Loss rate: 2.80%
-- Flow 3:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 188.705 ms
Loss rate: 4.51%

Run 5: Report of PCC-Allegro — Data Link

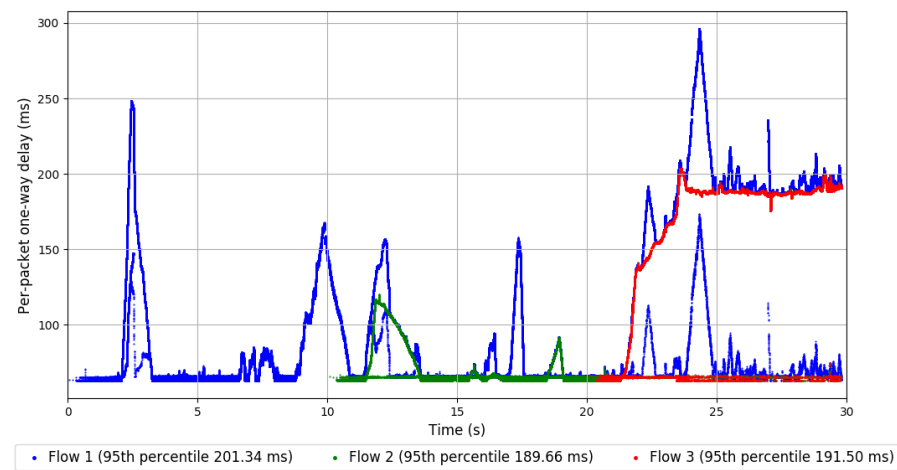
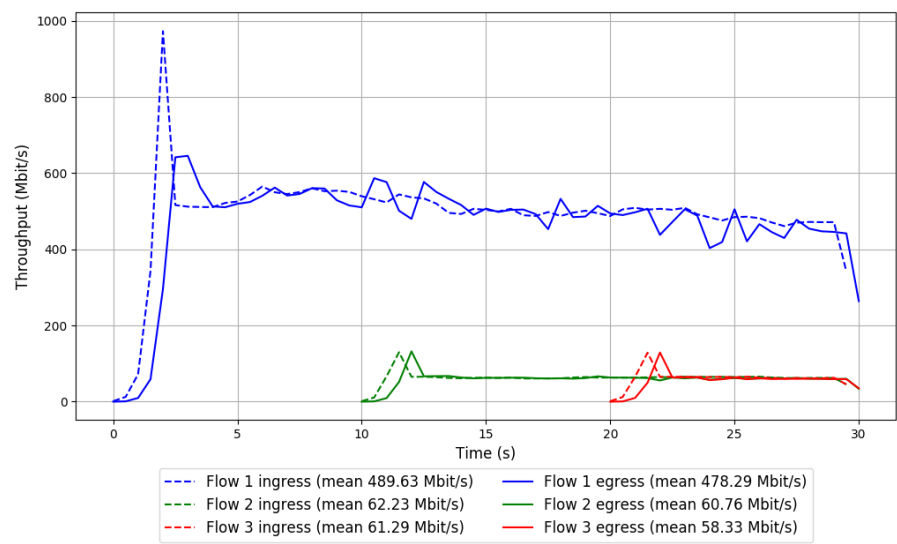


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 00:11:11
End at: 2018-06-20 00:11:41
Local clock offset: -0.187 ms
Remote clock offset: -1.323 ms

Below is generated by plot.py at 2018-06-20 03:50:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 537.62 Mbit/s
95th percentile per-packet one-way delay: 200.126 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 478.29 Mbit/s
95th percentile per-packet one-way delay: 201.340 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 60.76 Mbit/s
95th percentile per-packet one-way delay: 189.660 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 191.505 ms
Loss rate: 6.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-20 00:34:21

End at: 2018-06-20 00:34:51

Local clock offset: -0.092 ms

Remote clock offset: 1.116 ms

Below is generated by plot.py at 2018-06-20 03:56:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 528.07 Mbit/s

95th percentile per-packet one-way delay: 196.794 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 516.90 Mbit/s

95th percentile per-packet one-way delay: 197.148 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 188.919 ms

Loss rate: 1.82%

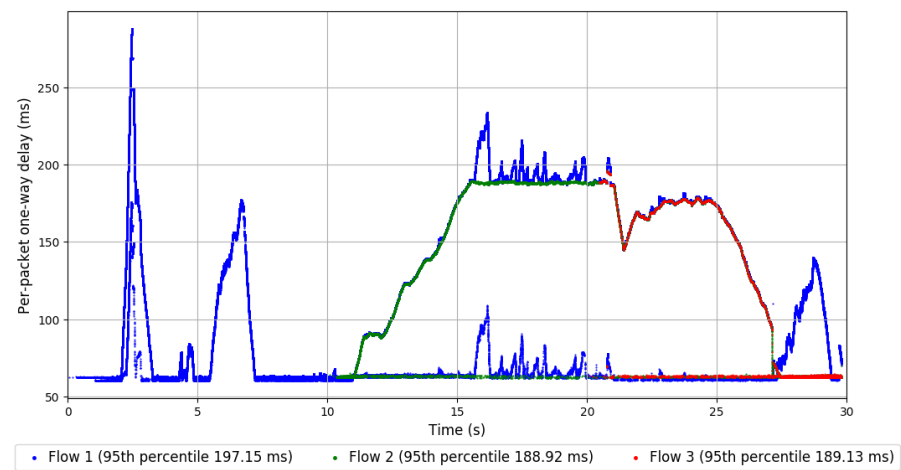
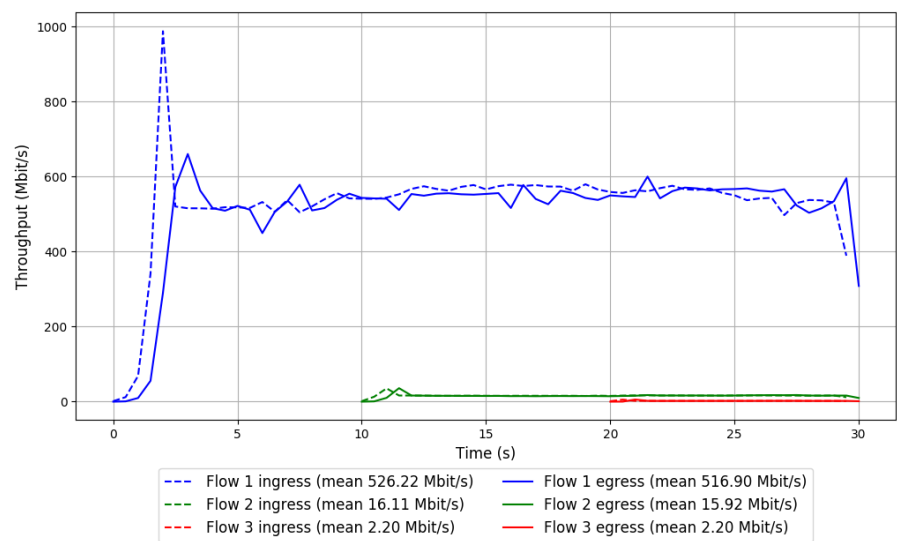
-- Flow 3:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 189.132 ms

Loss rate: 1.44%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-20 00:57:45

End at: 2018-06-20 00:58:16

Local clock offset: -0.0 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-20 03:57:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 528.17 Mbit/s

95th percentile per-packet one-way delay: 193.842 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 463.68 Mbit/s

95th percentile per-packet one-way delay: 197.026 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 186.632 ms

Loss rate: 1.28%

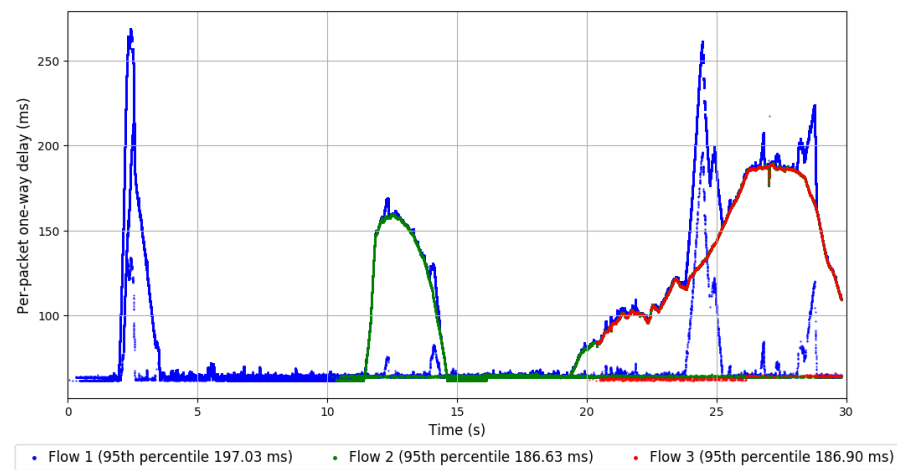
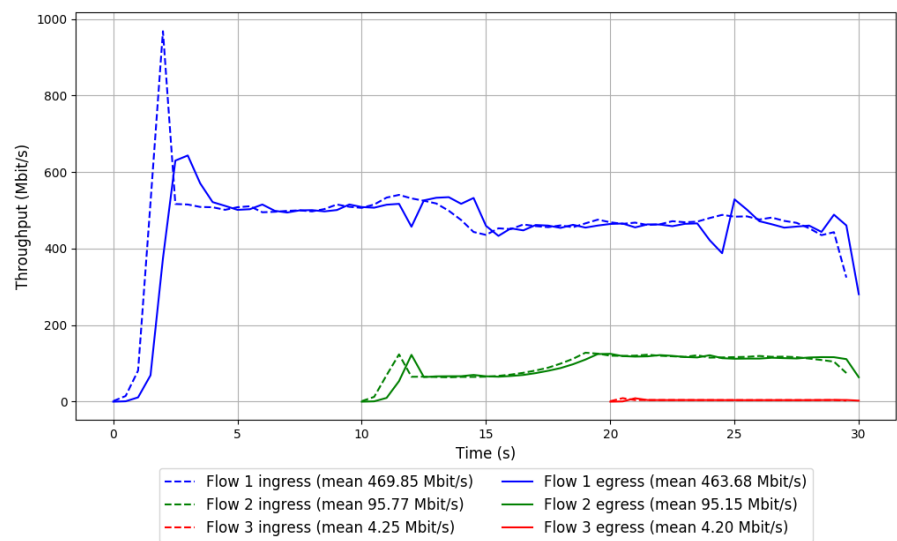
-- Flow 3:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 186.895 ms

Loss rate: 2.41%

Run 8: Report of PCC-Allegro — Data Link

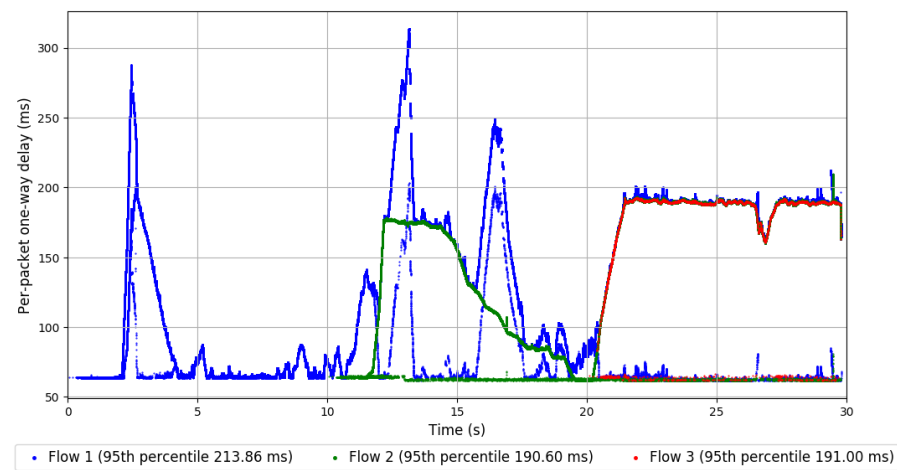
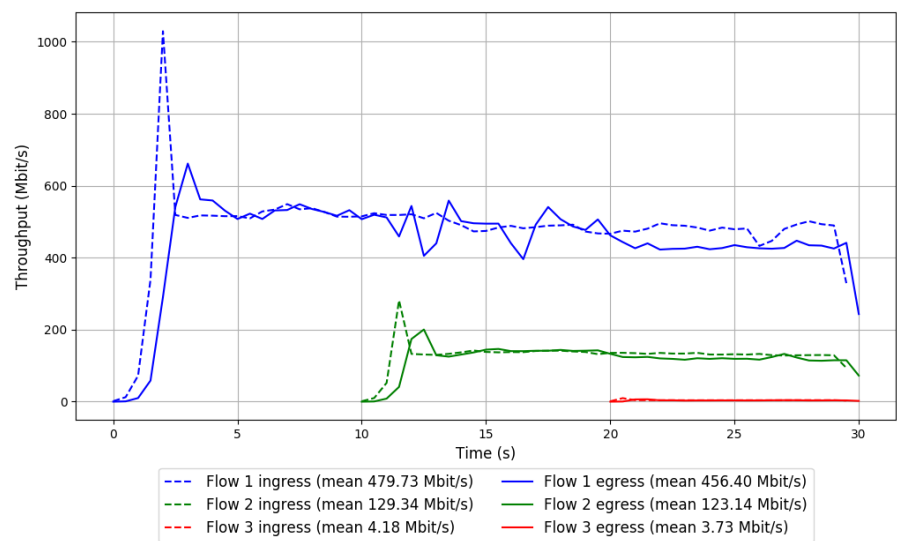


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-20 01:21:09
End at: 2018-06-20 01:21:39
Local clock offset: -0.0 ms
Remote clock offset: -0.279 ms

Below is generated by plot.py at 2018-06-20 03:57:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 539.24 Mbit/s
95th percentile per-packet one-way delay: 201.774 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 456.40 Mbit/s
95th percentile per-packet one-way delay: 213.856 ms
Loss rate: 5.27%
-- Flow 2:
Average throughput: 123.14 Mbit/s
95th percentile per-packet one-way delay: 190.601 ms
Loss rate: 5.48%
-- Flow 3:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 191.004 ms
Loss rate: 12.02%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-20 01:44:36

End at: 2018-06-20 01:45:06

Local clock offset: 0.03 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-06-20 03:57:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 535.47 Mbit/s

95th percentile per-packet one-way delay: 188.517 ms

Loss rate: 3.63%

-- Flow 1:

Average throughput: 471.48 Mbit/s

95th percentile per-packet one-way delay: 189.326 ms

Loss rate: 3.46%

-- Flow 2:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 185.845 ms

Loss rate: 3.84%

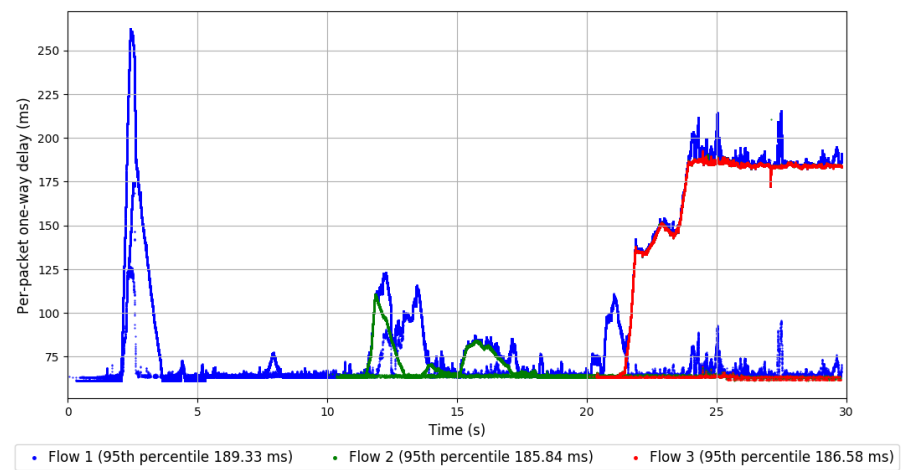
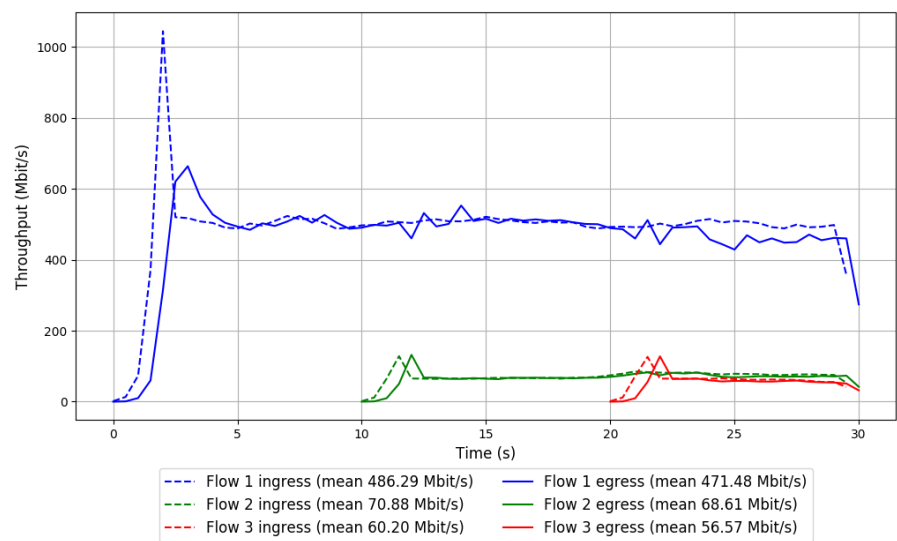
-- Flow 3:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 186.577 ms

Loss rate: 7.25%

Run 10: Report of PCC-Allegro — Data Link

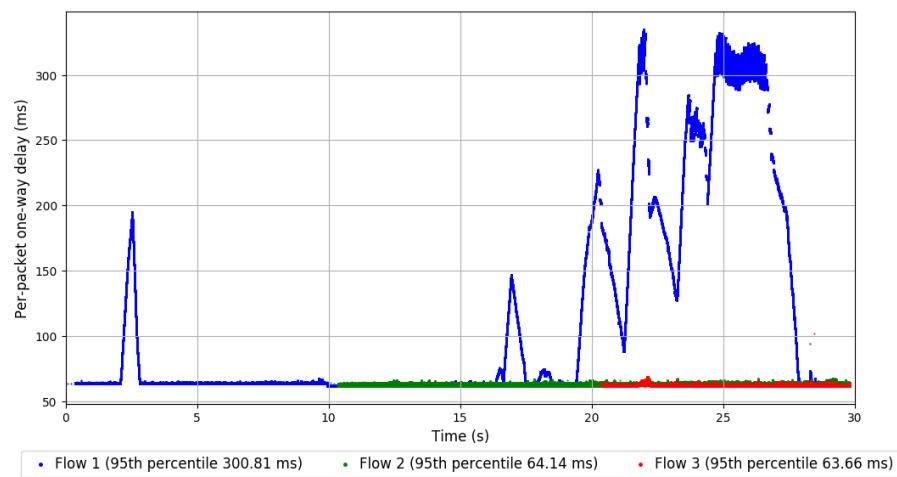
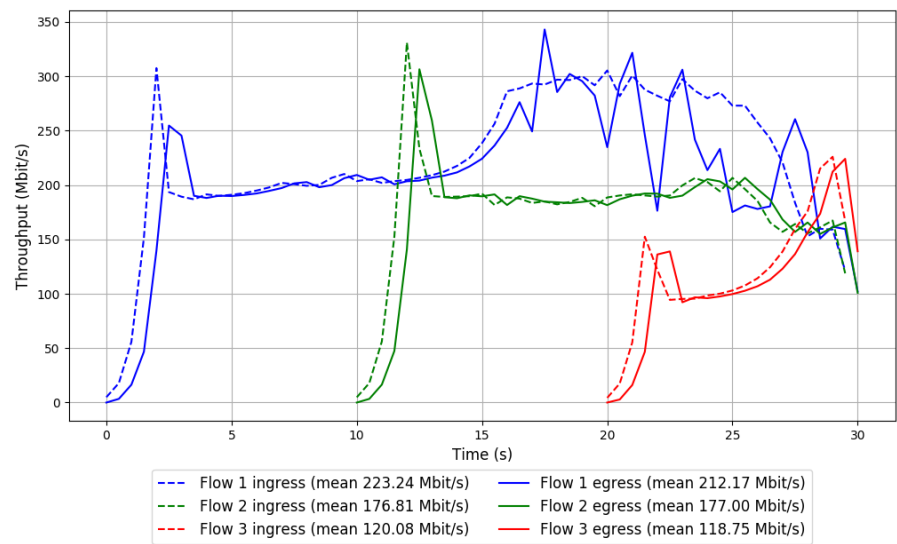


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 22:12:12
End at: 2018-06-19 22:12:42
Local clock offset: 0.584 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-20 04:02:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 368.47 Mbit/s
95th percentile per-packet one-way delay: 263.048 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 212.17 Mbit/s
95th percentile per-packet one-way delay: 300.809 ms
Loss rate: 5.37%
-- Flow 2:
Average throughput: 177.00 Mbit/s
95th percentile per-packet one-way delay: 64.139 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 118.75 Mbit/s
95th percentile per-packet one-way delay: 63.661 ms
Loss rate: 2.39%
```

Run 1: Report of PCC-Expr — Data Link

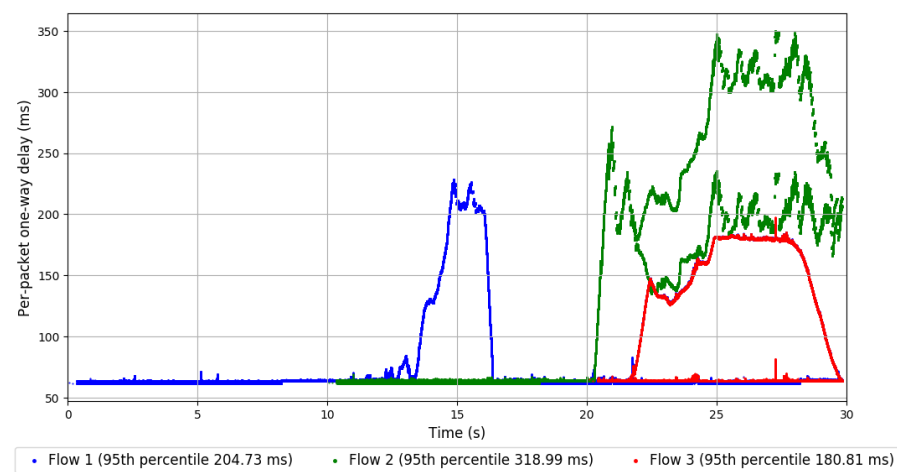
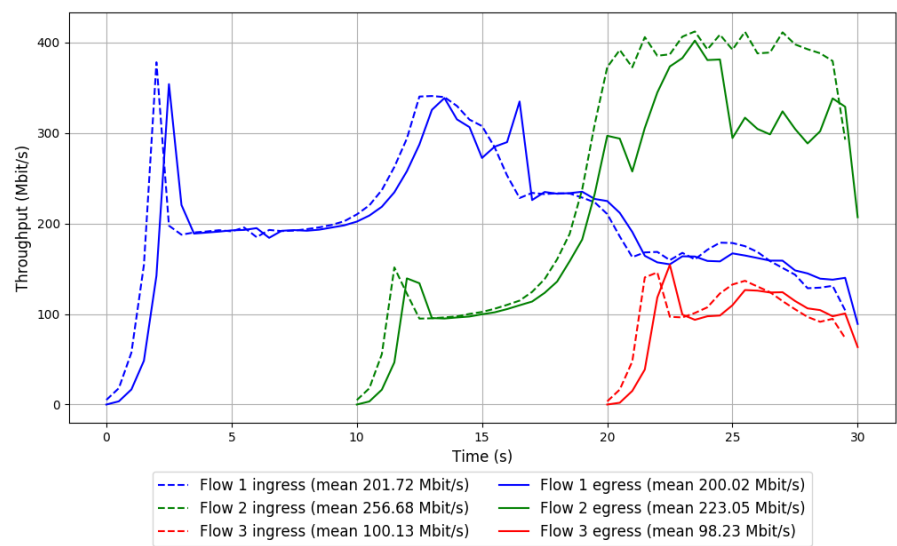


Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 22:35:43
End at: 2018-06-19 22:36:13
Local clock offset: 0.242 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-20 04:03:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.21 Mbit/s
95th percentile per-packet one-way delay: 299.706 ms
Loss rate: 6.64%
-- Flow 1:
Average throughput: 200.02 Mbit/s
95th percentile per-packet one-way delay: 204.726 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 223.05 Mbit/s
95th percentile per-packet one-way delay: 318.993 ms
Loss rate: 13.65%
-- Flow 3:
Average throughput: 98.23 Mbit/s
95th percentile per-packet one-way delay: 180.806 ms
Loss rate: 3.26%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 22:59:05

End at: 2018-06-19 22:59:35

Local clock offset: -0.179 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-20 04:03:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.11 Mbit/s

95th percentile per-packet one-way delay: 126.991 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 204.96 Mbit/s

95th percentile per-packet one-way delay: 149.427 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 153.95 Mbit/s

95th percentile per-packet one-way delay: 65.161 ms

Loss rate: 0.63%

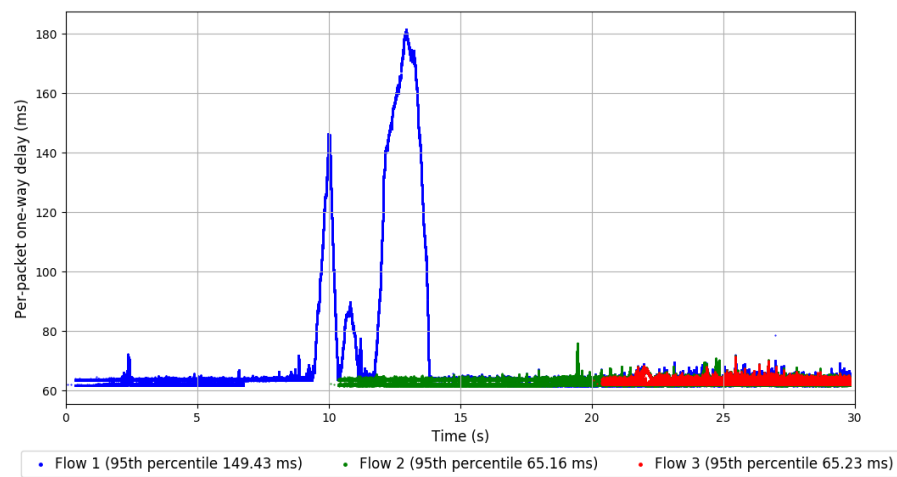
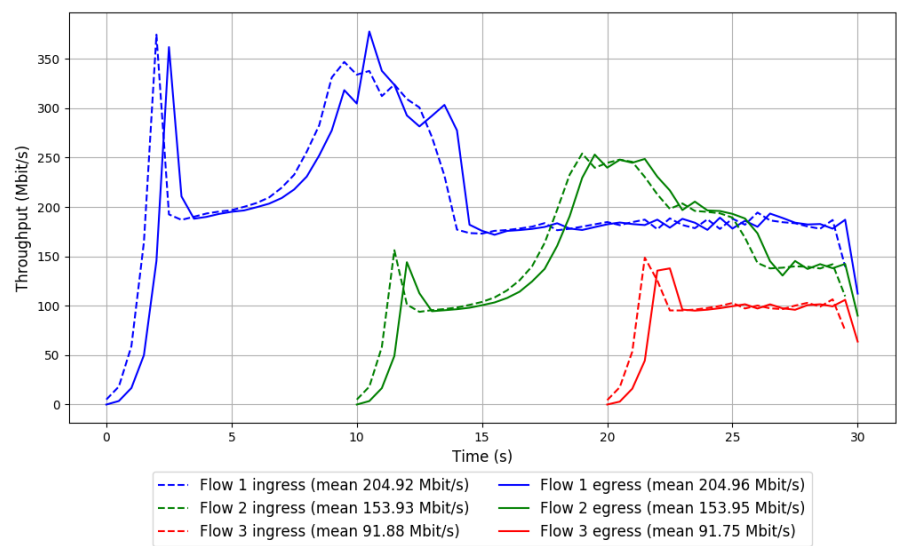
-- Flow 3:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 65.226 ms

Loss rate: 1.44%

Run 3: Report of PCC-Expr — Data Link

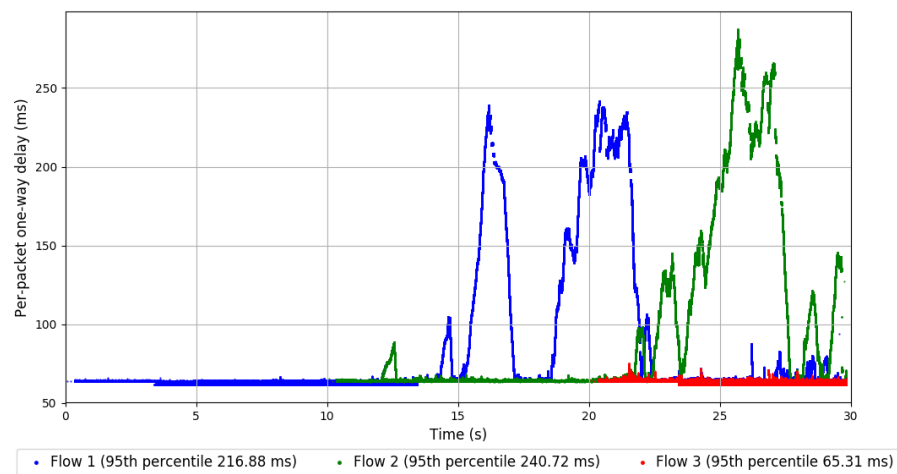
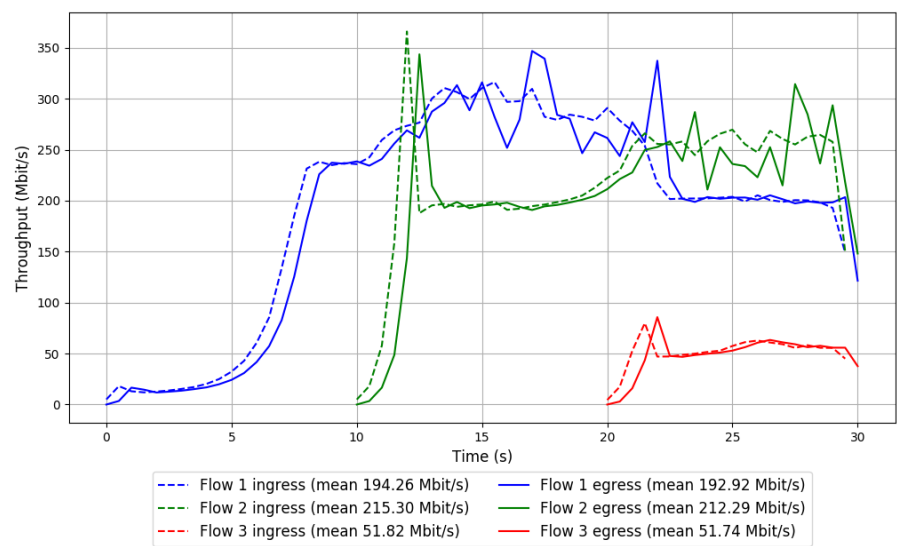


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 23:22:18
End at: 2018-06-19 23:22:48
Local clock offset: -0.085 ms
Remote clock offset: -0.232 ms

Below is generated by plot.py at 2018-06-20 04:03:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.77 Mbit/s
95th percentile per-packet one-way delay: 223.110 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 192.92 Mbit/s
95th percentile per-packet one-way delay: 216.883 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 212.29 Mbit/s
95th percentile per-packet one-way delay: 240.720 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 65.312 ms
Loss rate: 1.45%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 23:45:55

End at: 2018-06-19 23:46:25

Local clock offset: -0.097 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-06-20 04:10:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.08 Mbit/s

95th percentile per-packet one-way delay: 177.196 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 174.35 Mbit/s

95th percentile per-packet one-way delay: 116.104 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 220.86 Mbit/s

95th percentile per-packet one-way delay: 188.285 ms

Loss rate: 2.92%

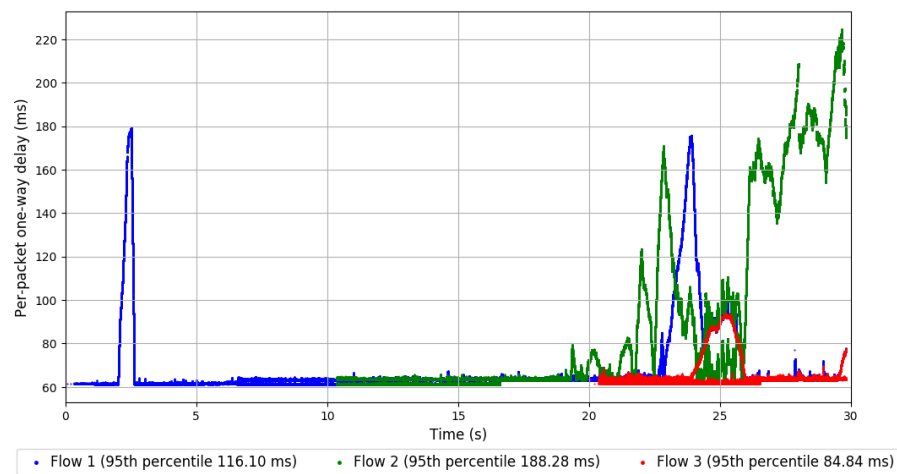
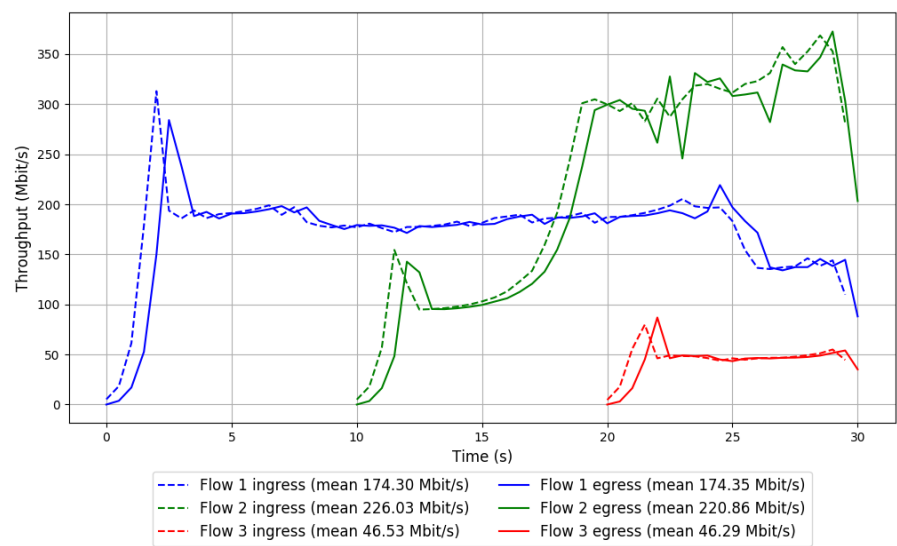
-- Flow 3:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 84.841 ms

Loss rate: 1.82%

Run 5: Report of PCC-Expr — Data Link

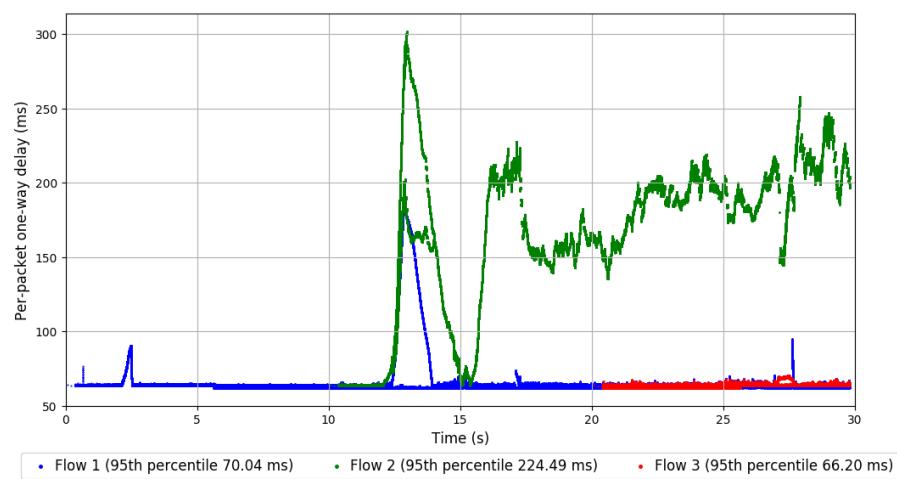
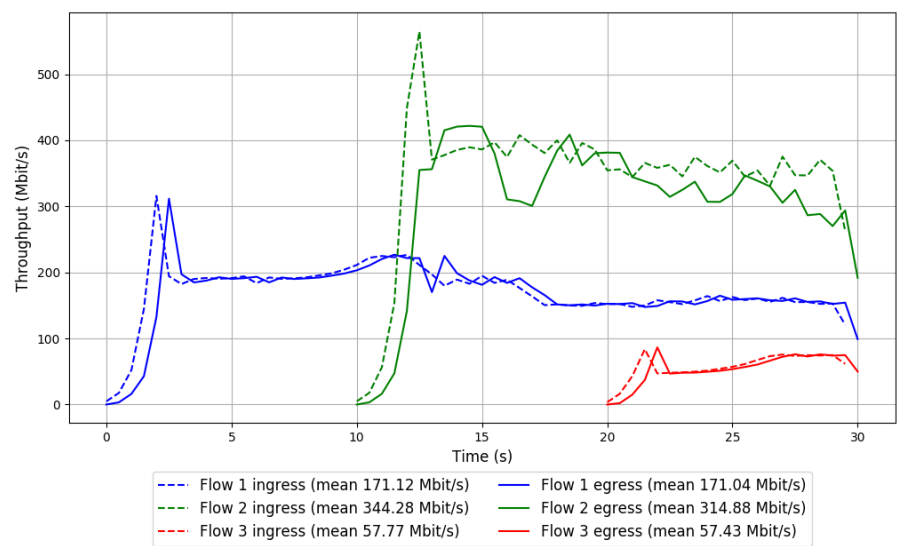


Run 6: Statistics of PCC-Expr

Start at: 2018-06-20 00:09:26
End at: 2018-06-20 00:09:56
Local clock offset: -0.181 ms
Remote clock offset: -0.288 ms

Below is generated by plot.py at 2018-06-20 04:14:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 398.79 Mbit/s
95th percentile per-packet one-way delay: 213.725 ms
Loss rate: 5.26%
-- Flow 1:
Average throughput: 171.04 Mbit/s
95th percentile per-packet one-way delay: 70.044 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 314.88 Mbit/s
95th percentile per-packet one-way delay: 224.494 ms
Loss rate: 9.12%
-- Flow 3:
Average throughput: 57.43 Mbit/s
95th percentile per-packet one-way delay: 66.205 ms
Loss rate: 1.87%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-20 00:32:43

End at: 2018-06-20 00:33:13

Local clock offset: -0.014 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-20 04:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.29 Mbit/s

95th percentile per-packet one-way delay: 109.636 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 187.17 Mbit/s

95th percentile per-packet one-way delay: 96.506 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 172.15 Mbit/s

95th percentile per-packet one-way delay: 143.084 ms

Loss rate: 1.66%

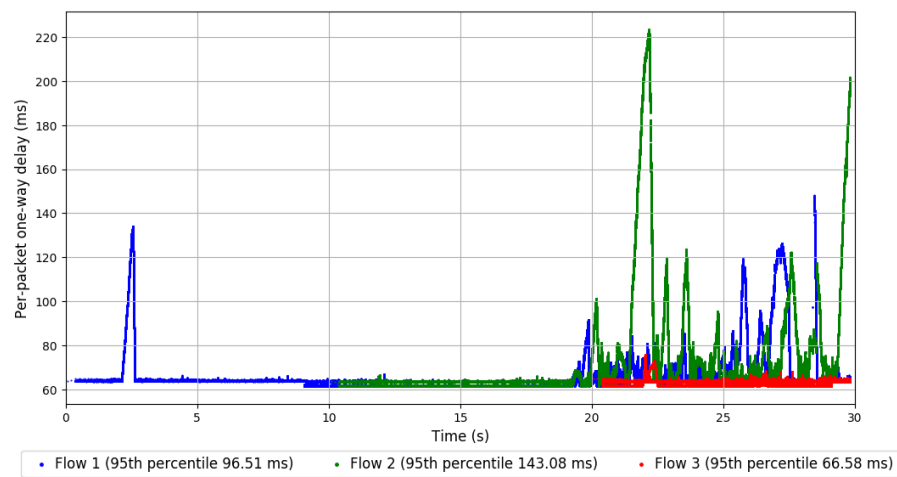
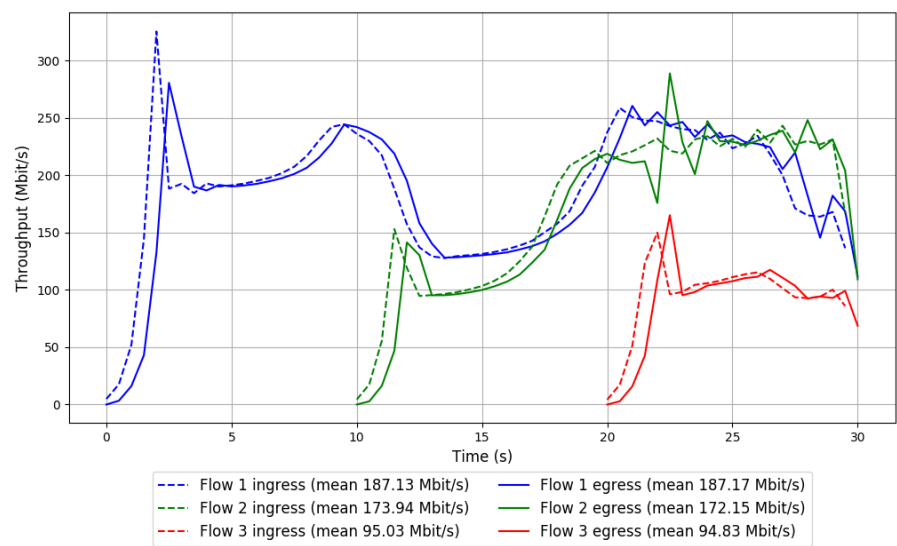
-- Flow 3:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 66.576 ms

Loss rate: 1.62%

Run 7: Report of PCC-Expr — Data Link

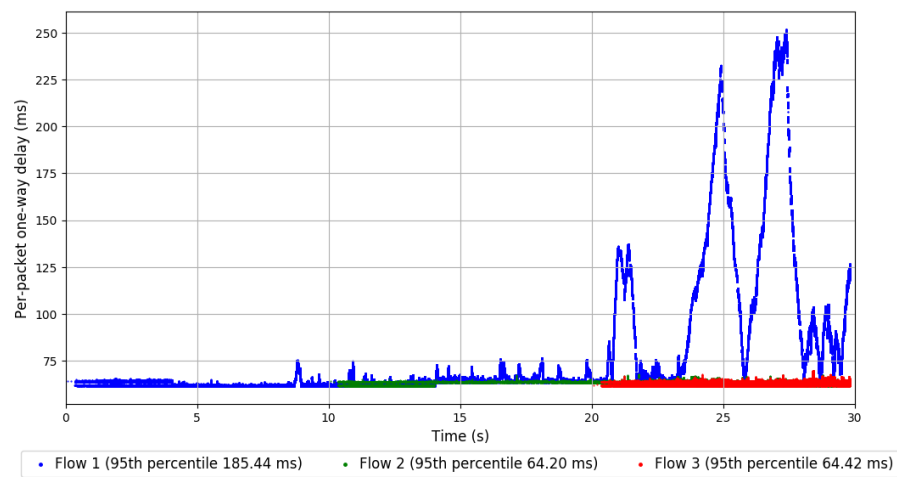
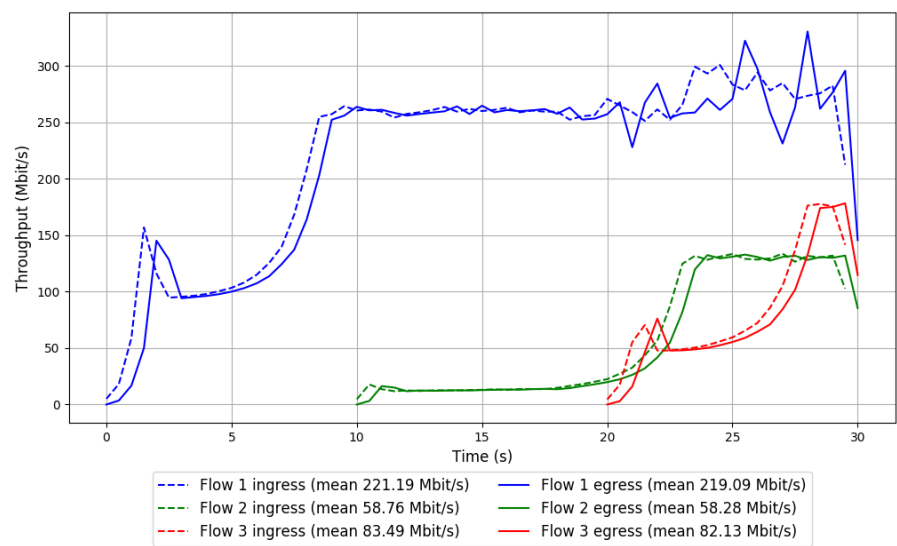


Run 8: Statistics of PCC-Expr

Start at: 2018-06-20 00:56:08
End at: 2018-06-20 00:56:38
Local clock offset: -0.03 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-20 04:14:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 284.63 Mbit/s
95th percentile per-packet one-way delay: 167.780 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 219.09 Mbit/s
95th percentile per-packet one-way delay: 185.438 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 64.203 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 82.13 Mbit/s
95th percentile per-packet one-way delay: 64.418 ms
Loss rate: 2.90%

Run 8: Report of PCC-Expr — Data Link

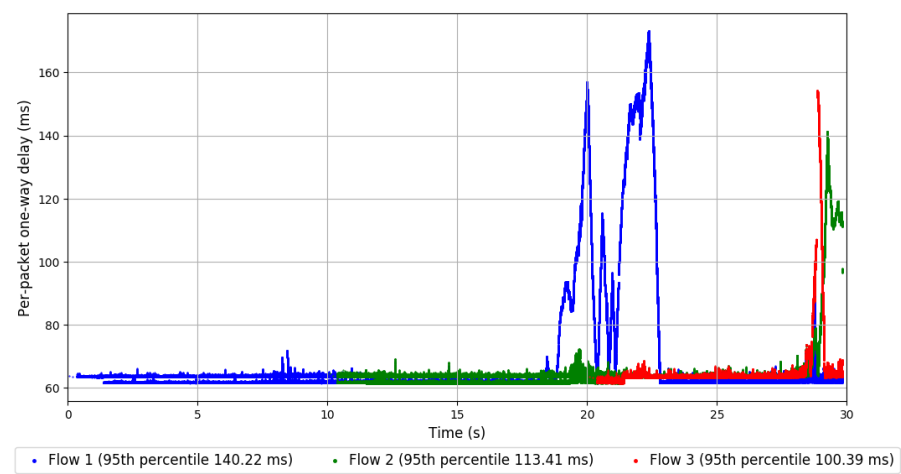
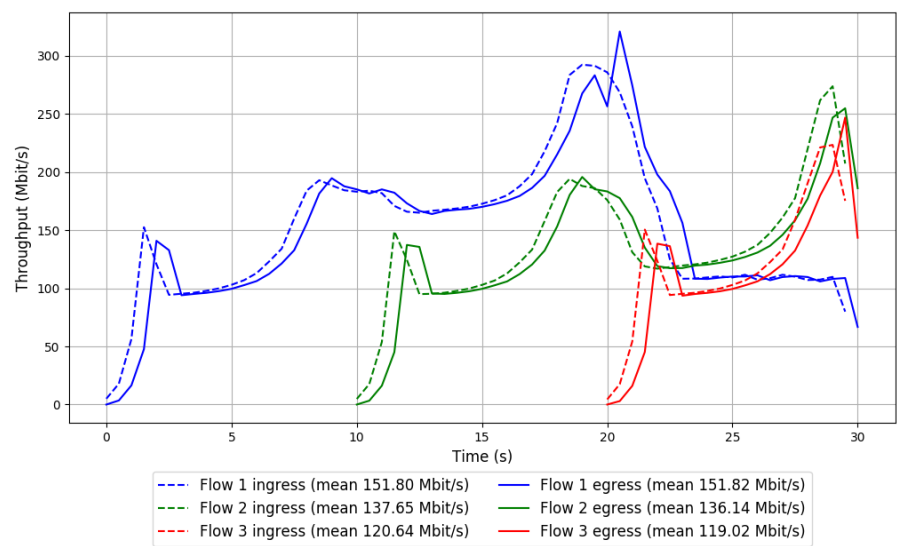


Run 9: Statistics of PCC-Expr

Start at: 2018-06-20 01:19:30
End at: 2018-06-20 01:20:00
Local clock offset: -0.066 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-20 04:14:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 281.13 Mbit/s
95th percentile per-packet one-way delay: 119.763 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 151.82 Mbit/s
95th percentile per-packet one-way delay: 140.218 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 136.14 Mbit/s
95th percentile per-packet one-way delay: 113.412 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 119.02 Mbit/s
95th percentile per-packet one-way delay: 100.390 ms
Loss rate: 2.62%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-20 01:42:55

End at: 2018-06-20 01:43:25

Local clock offset: 0.031 ms

Remote clock offset: 1.29 ms

Below is generated by plot.py at 2018-06-20 04:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.74 Mbit/s

95th percentile per-packet one-way delay: 157.562 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 211.15 Mbit/s

95th percentile per-packet one-way delay: 193.930 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 161.19 Mbit/s

95th percentile per-packet one-way delay: 70.088 ms

Loss rate: 0.61%

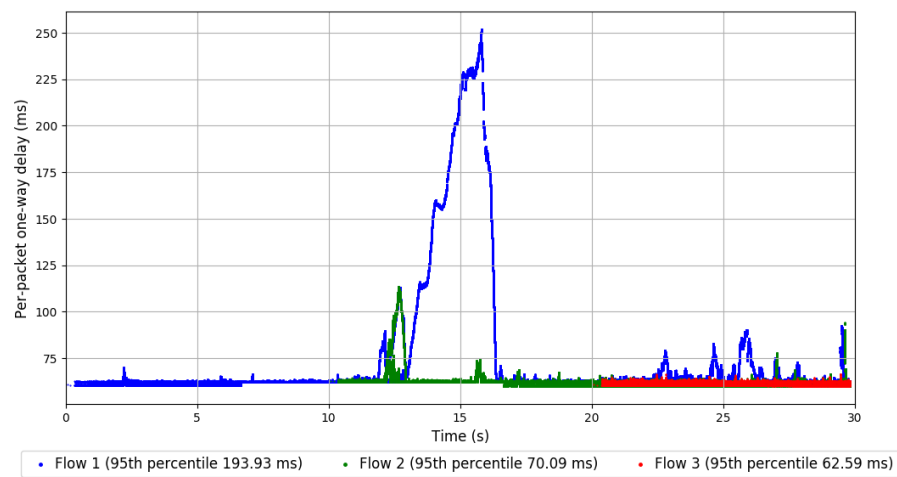
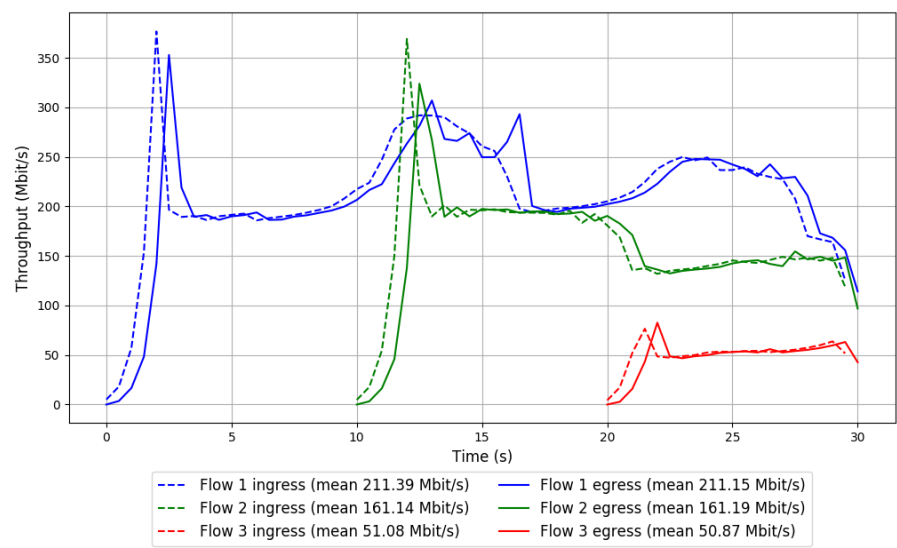
-- Flow 3:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 62.589 ms

Loss rate: 1.68%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 22:10:58

End at: 2018-06-19 22:11:28

Local clock offset: 0.594 ms

Remote clock offset: 1.332 ms

Below is generated by plot.py at 2018-06-20 04:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.44 Mbit/s

95th percentile per-packet one-way delay: 62.437 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 62.391 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 62.259 ms

Loss rate: 1.47%

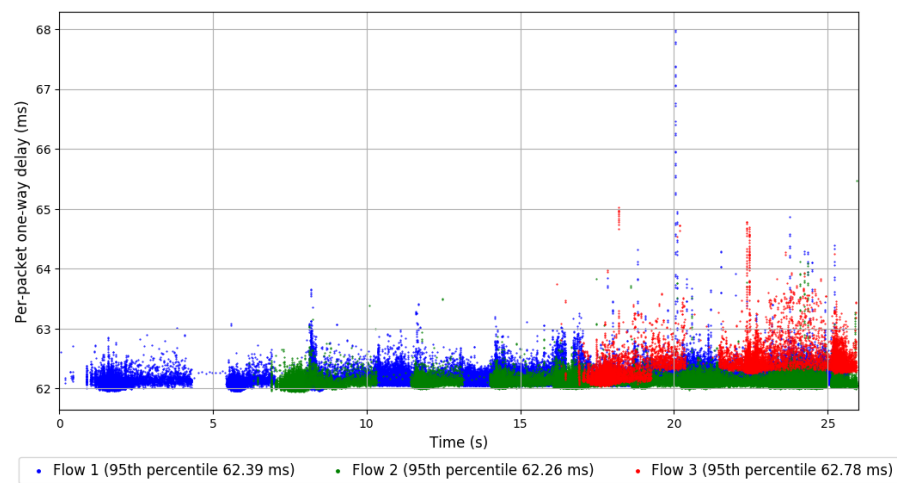
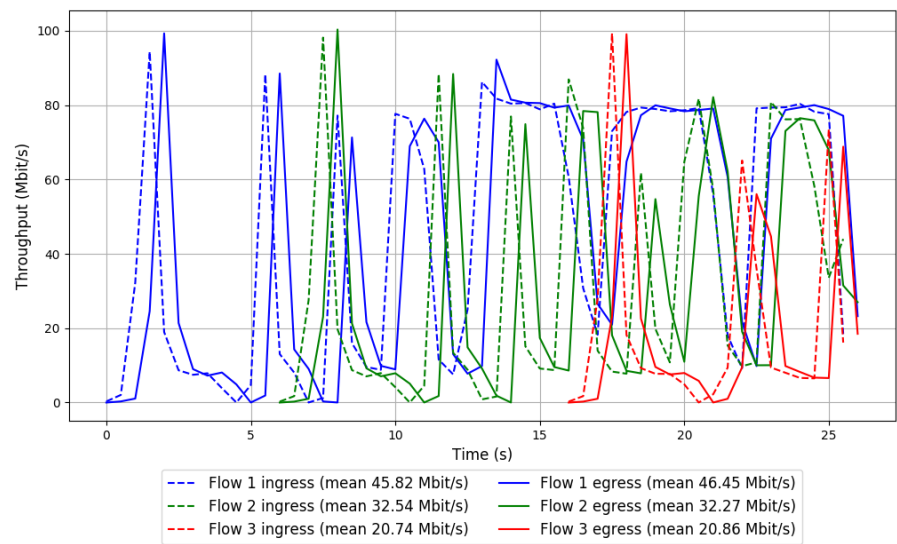
-- Flow 3:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 62.781 ms

Loss rate: 0.75%

Run 1: Report of QUIC Cubic — Data Link

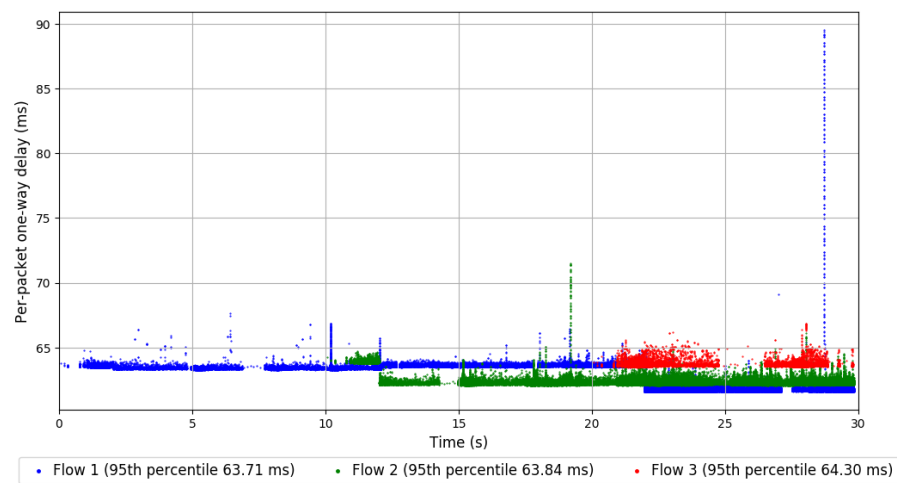
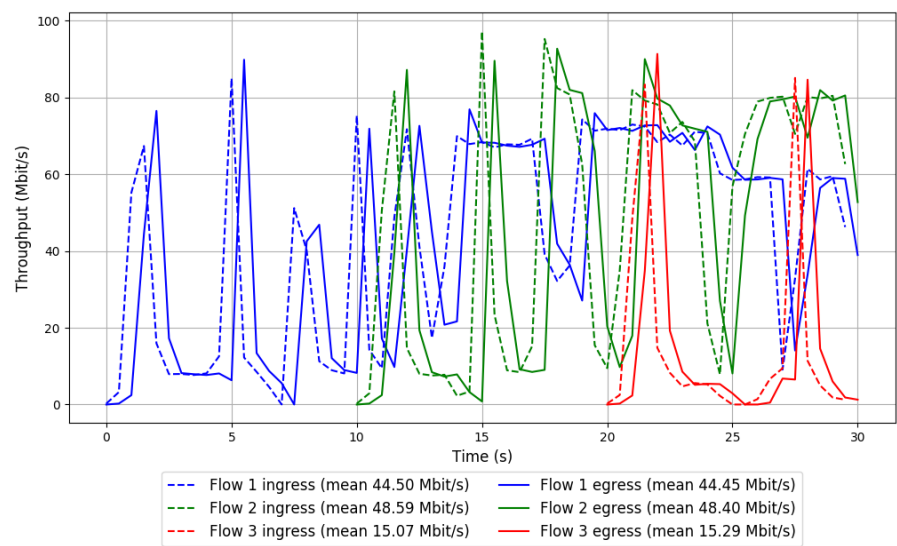


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 22:34:30
End at: 2018-06-19 22:35:00
Local clock offset: 0.311 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-20 04:16:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.58 Mbit/s
95th percentile per-packet one-way delay: 63.806 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 44.45 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 63.844 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 64.304 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 22:57:51

End at: 2018-06-19 22:58:21

Local clock offset: -0.241 ms

Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-06-20 04:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.42 Mbit/s

95th percentile per-packet one-way delay: 63.229 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 63.294 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 61.466 ms

Loss rate: 0.19%

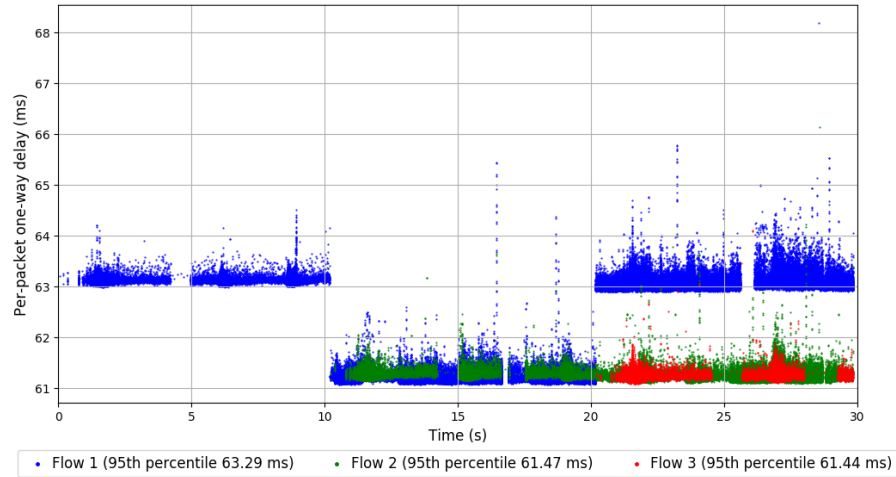
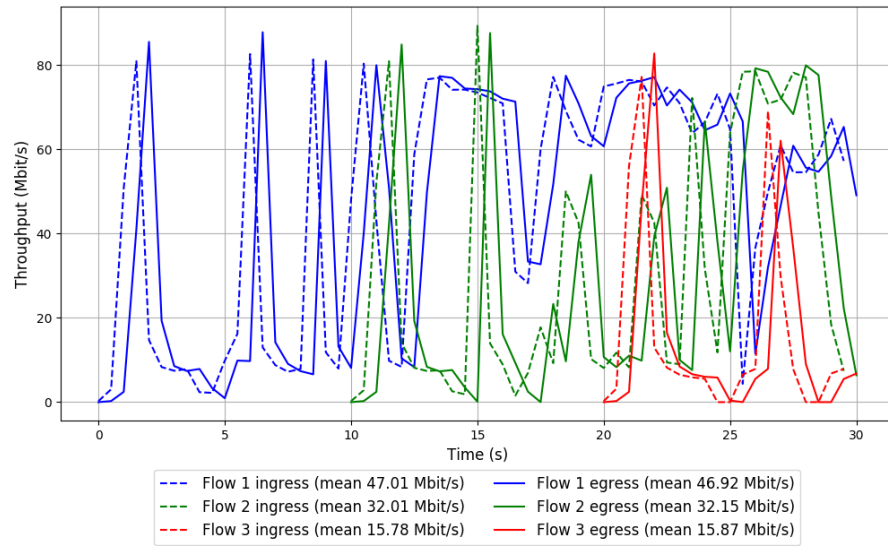
-- Flow 3:

Average throughput: 15.87 Mbit/s

95th percentile per-packet one-way delay: 61.436 ms

Loss rate: 0.76%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 23:21:04

End at: 2018-06-19 23:21:34

Local clock offset: -0.093 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-06-20 04:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 63.578 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 44.28 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 63.397 ms

Loss rate: 1.14%

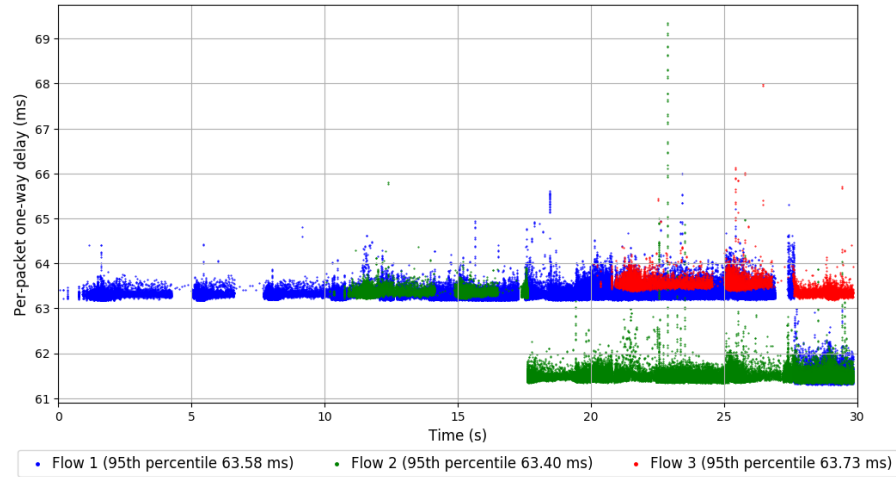
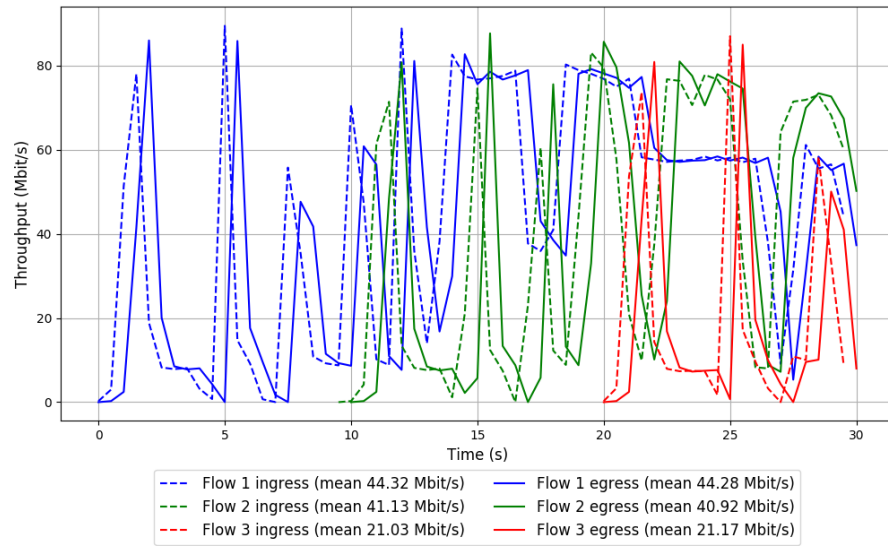
-- Flow 3:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 63.727 ms

Loss rate: 0.59%

Run 4: Report of QUIC Cubic — Data Link

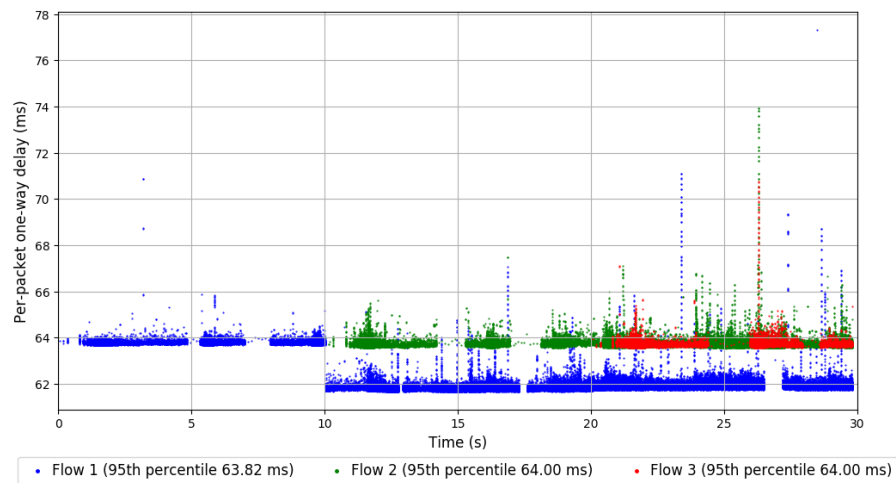
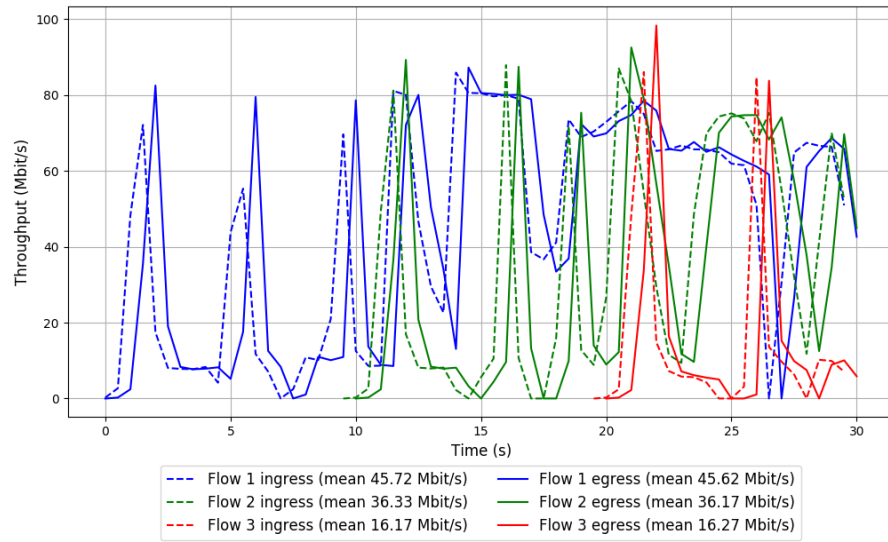


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 23:44:42
End at: 2018-06-19 23:45:12
Local clock offset: -0.153 ms
Remote clock offset: -0.258 ms

Below is generated by plot.py at 2018-06-20 04:16:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.99 Mbit/s
95th percentile per-packet one-way delay: 63.894 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 63.816 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 36.17 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.74%

Run 5: Report of QUIC Cubic — Data Link

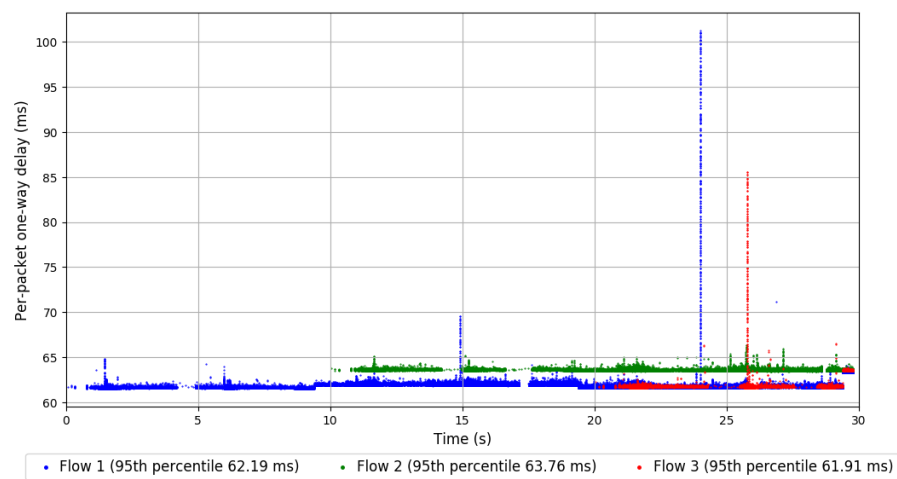
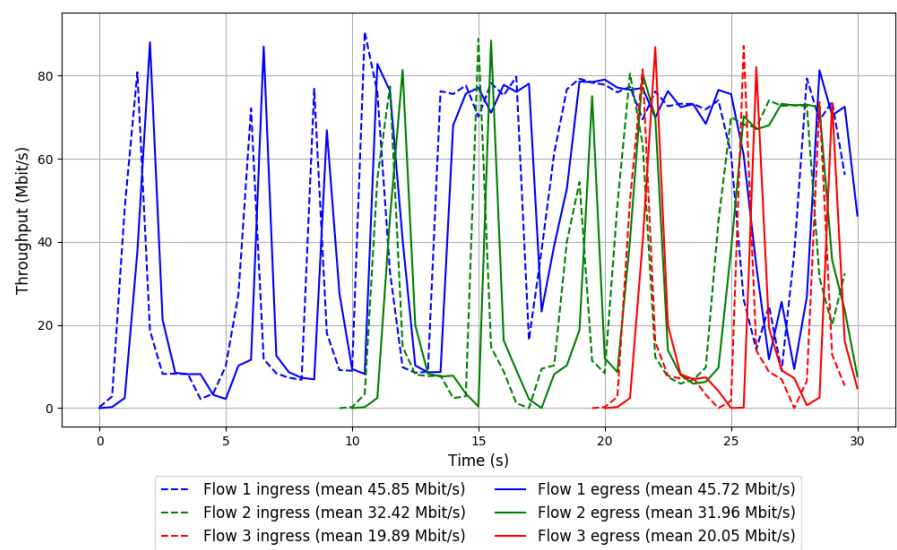


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 00:08:12
End at: 2018-06-20 00:08:42
Local clock offset: -0.204 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-06-20 04:16:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.53 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 62.194 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 63.759 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 61.909 ms
Loss rate: 0.44%

Run 6: Report of QUIC Cubic — Data Link

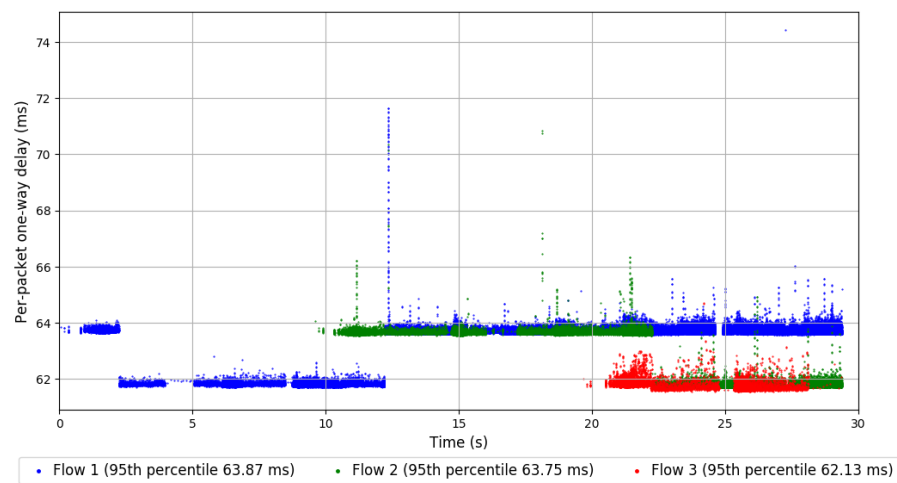
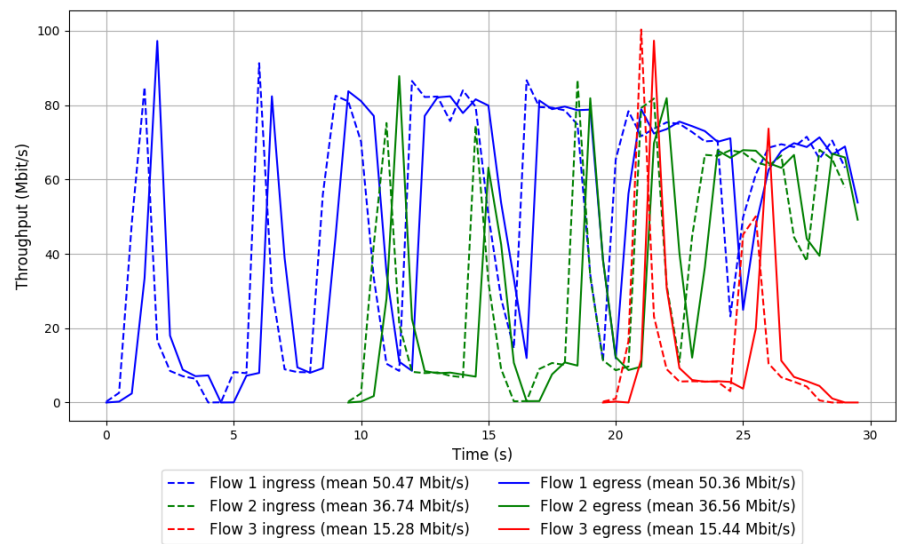


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-20 00:31:29
End at: 2018-06-20 00:31:59
Local clock offset: -0.052 ms
Remote clock offset: -0.231 ms

Below is generated by plot.py at 2018-06-20 04:16:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 63.836 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 62.133 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

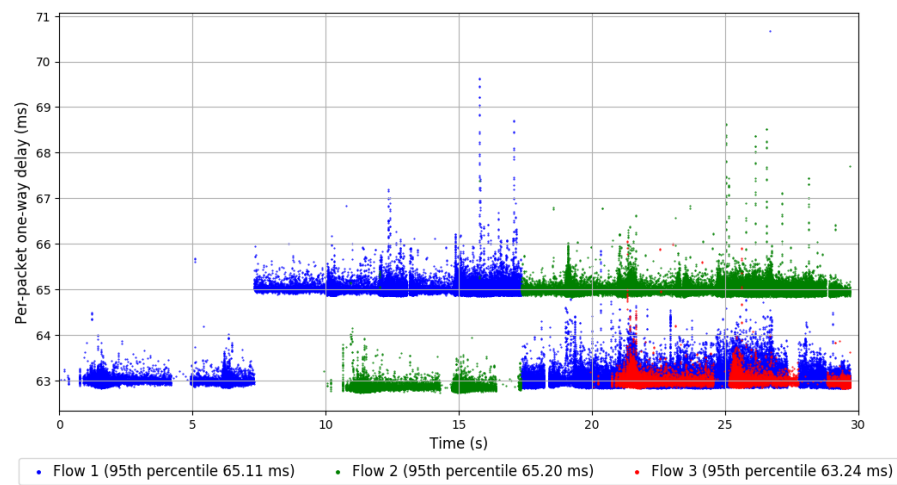
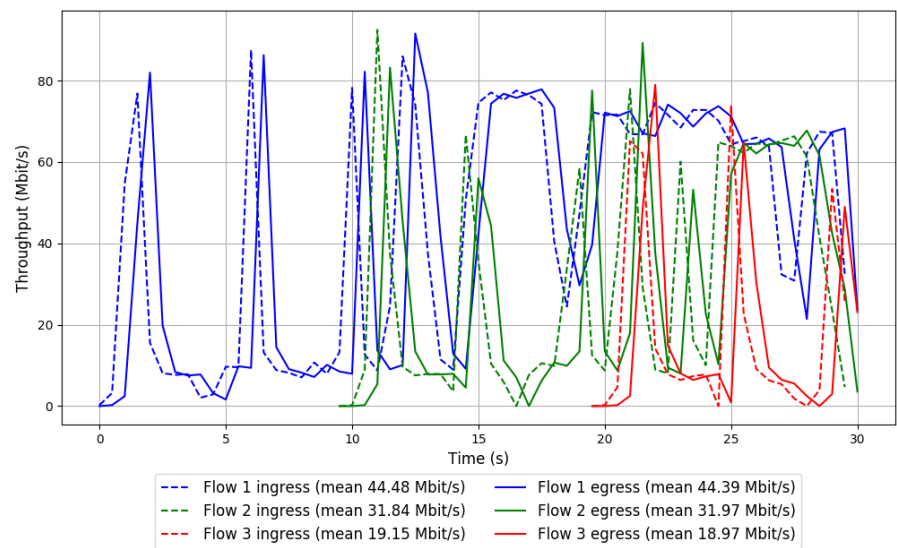


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-20 00:54:54
End at: 2018-06-20 00:55:24
Local clock offset: -0.064 ms
Remote clock offset: -1.369 ms

Below is generated by plot.py at 2018-06-20 04:16:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 65.139 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 44.39 Mbit/s
95th percentile per-packet one-way delay: 65.113 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 65.197 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 63.242 ms
Loss rate: 2.15%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-20 01:18:17

End at: 2018-06-20 01:18:47

Local clock offset: -0.046 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-06-20 04:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.43 Mbit/s

95th percentile per-packet one-way delay: 63.577 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 61.709 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 27.91 Mbit/s

95th percentile per-packet one-way delay: 63.726 ms

Loss rate: 1.17%

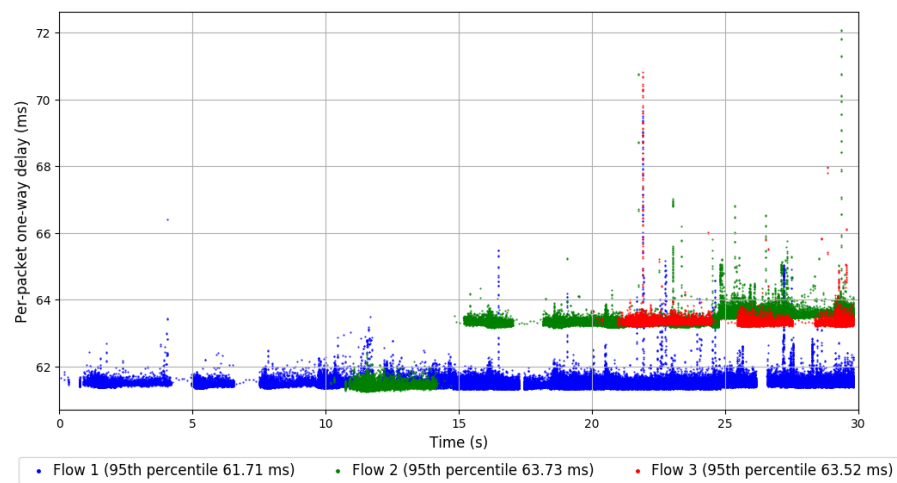
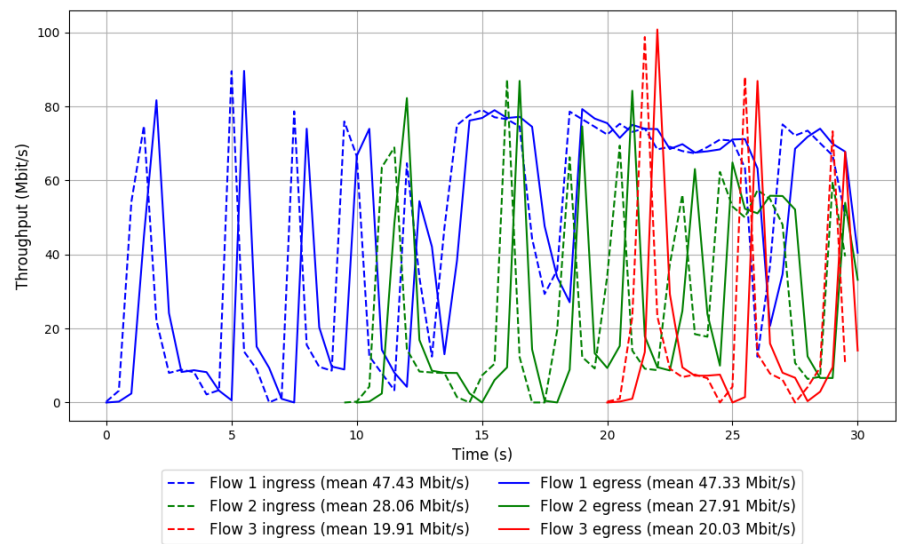
-- Flow 3:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 63.522 ms

Loss rate: 0.71%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-20 01:41:41

End at: 2018-06-20 01:42:11

Local clock offset: 0.048 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-06-20 04:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.56 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 63.960 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 38.27 Mbit/s

95th percentile per-packet one-way delay: 63.885 ms

Loss rate: 1.17%

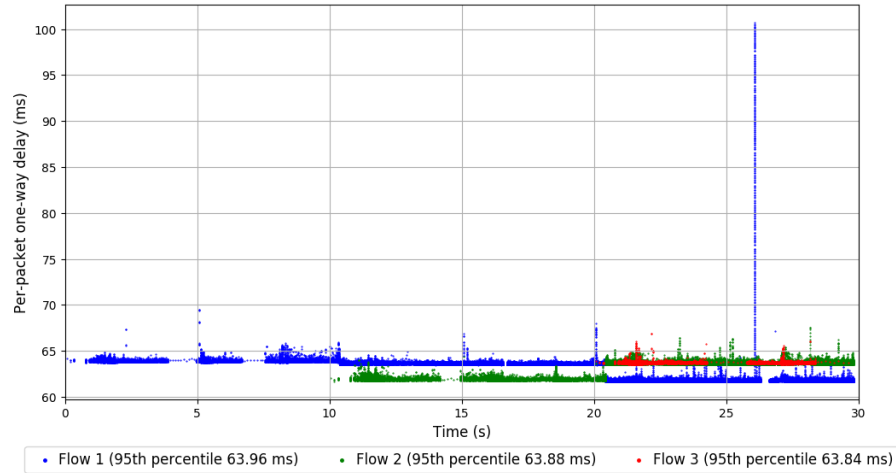
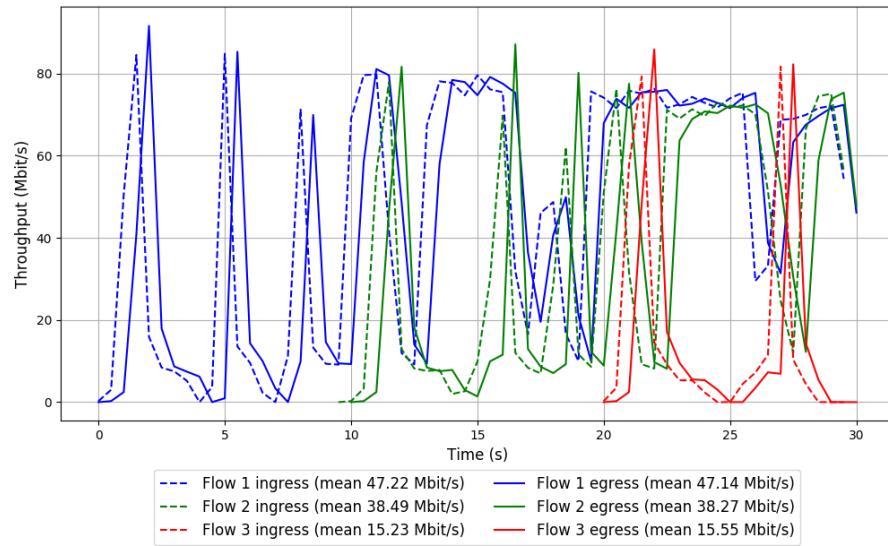
-- Flow 3:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 63.845 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

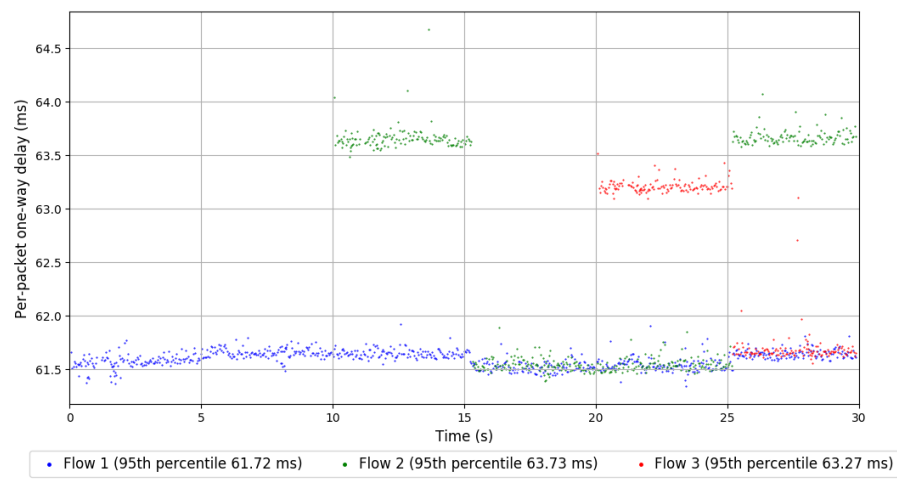
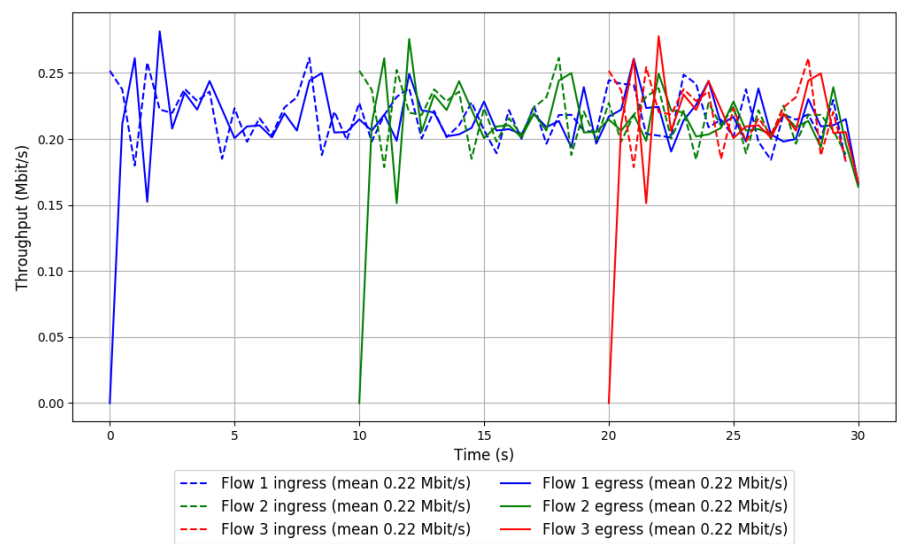


```
Run 1: Statistics of SReAM

Start at: 2018-06-19 22:23:16
End at: 2018-06-19 22:23:46
Local clock offset: 0.573 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.717 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.269 ms
Loss rate: 1.08%
```

Run 1: Report of SReAM — Data Link

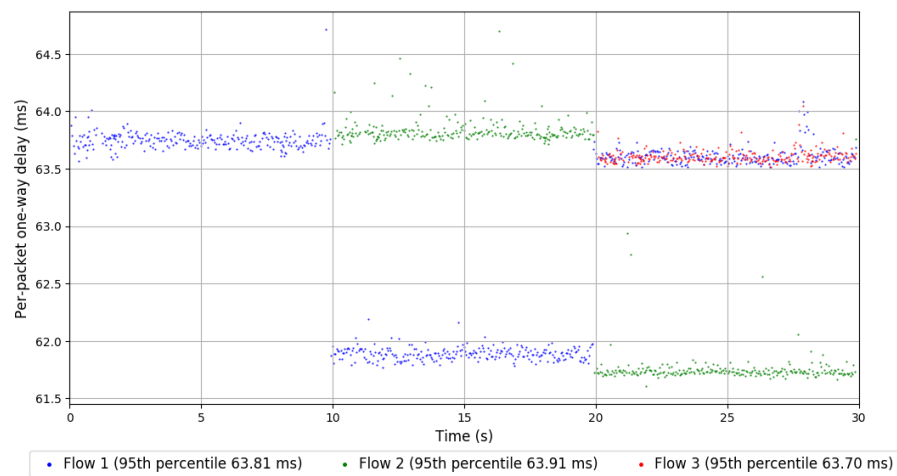
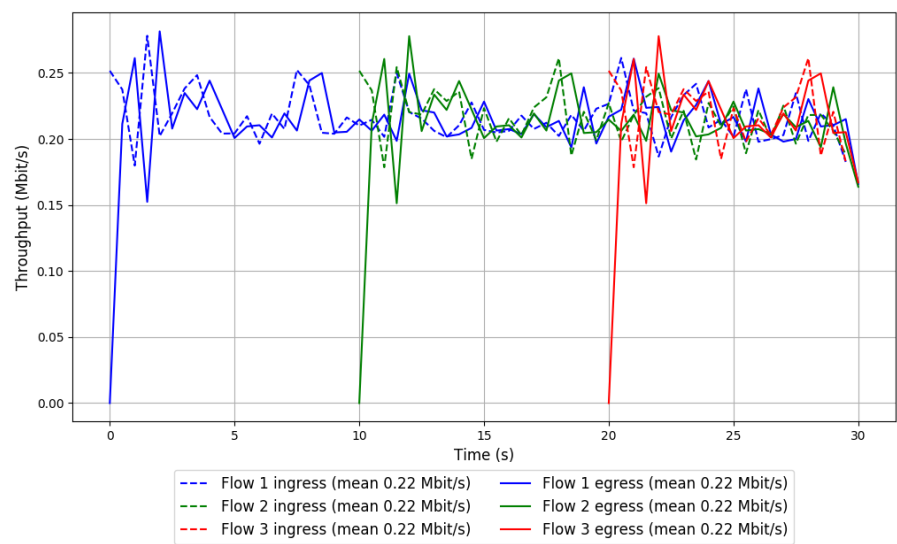


Run 2: Statistics of SReAM

Start at: 2018-06-19 22:46:42
End at: 2018-06-19 22:47:12
Local clock offset: -0.031 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.810 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.908 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.700 ms
Loss rate: 1.08%

Run 2: Report of SReAM — Data Link

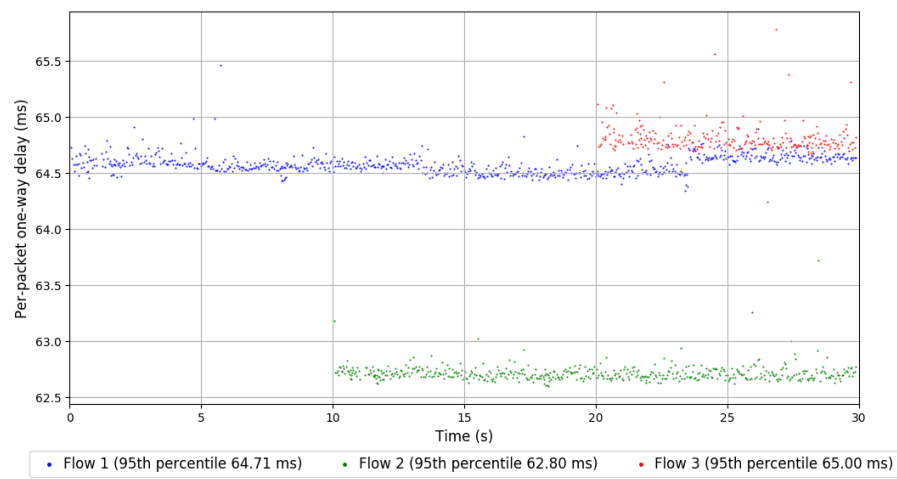
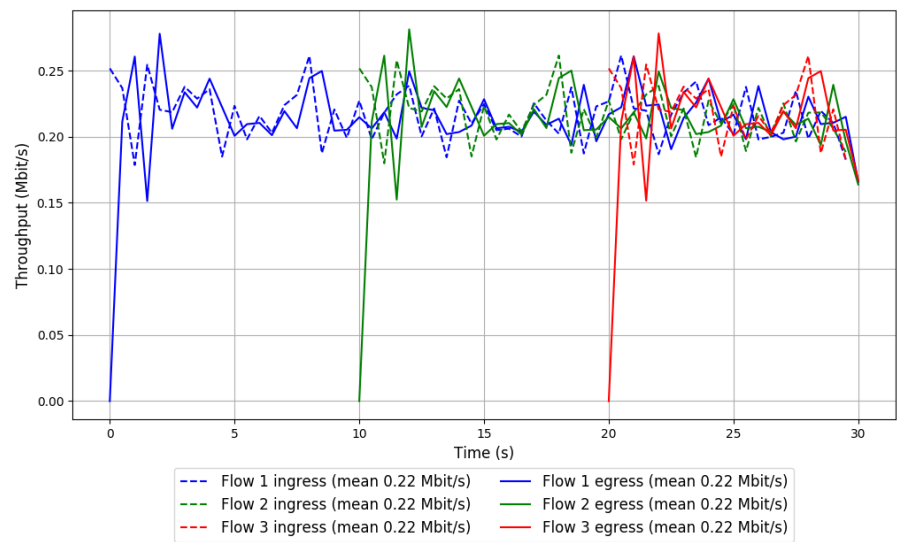


Run 3: Statistics of SReAM

Start at: 2018-06-19 23:09:58
End at: 2018-06-19 23:10:28
Local clock offset: -0.202 ms
Remote clock offset: -1.104 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 64.827 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.714 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.805 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.002 ms
Loss rate: 1.08%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-06-19 23:33:17

End at: 2018-06-19 23:33:47

Local clock offset: -0.112 ms

Remote clock offset: 1.254 ms

Below is generated by plot.py at 2018-06-20 04:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 62.400 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.430 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.355 ms

Loss rate: 0.61%

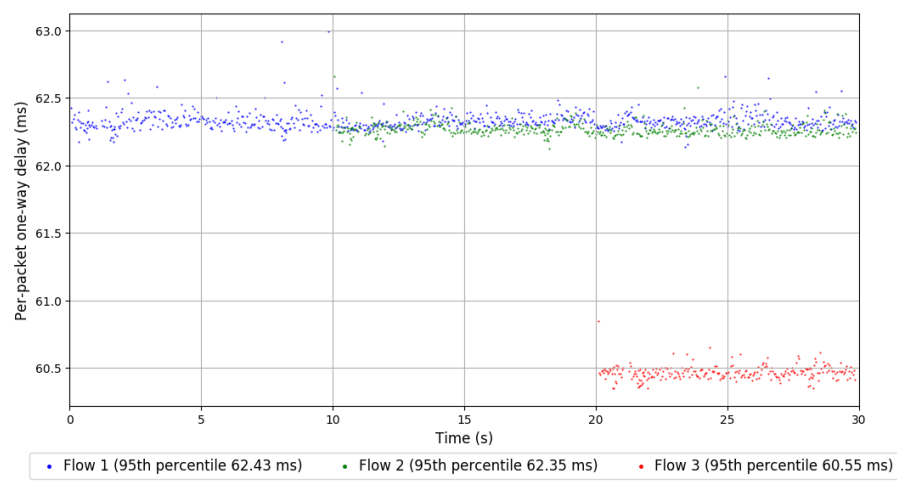
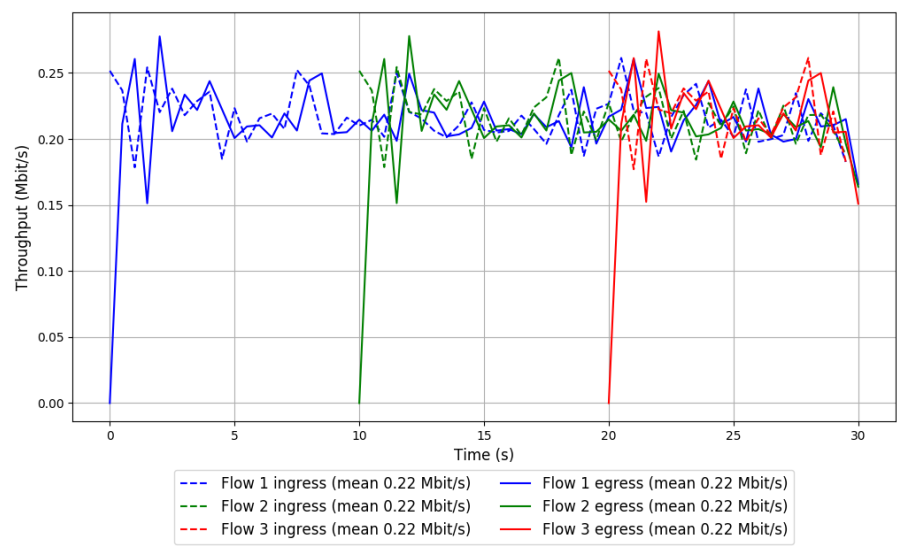
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.546 ms

Loss rate: 1.45%

Run 4: Report of SCReAM — Data Link

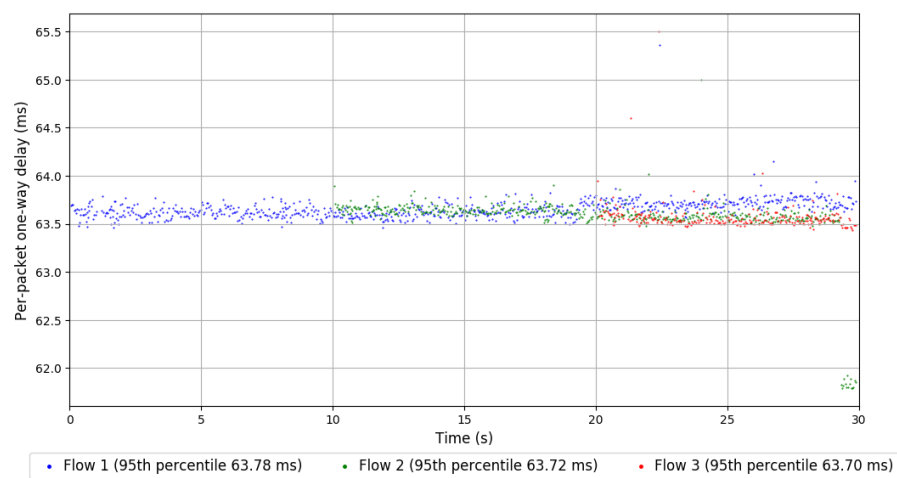
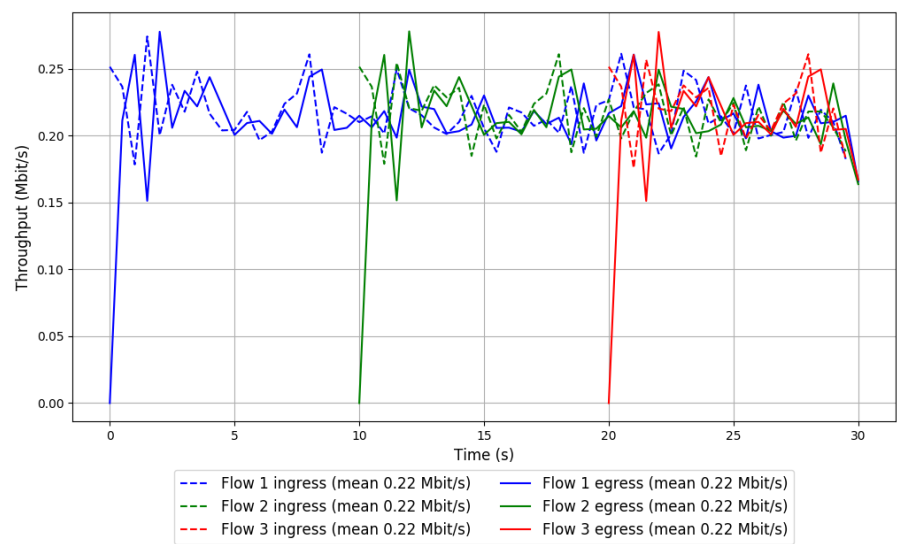


Run 5: Statistics of SReAM

Start at: 2018-06-19 23:56:52
End at: 2018-06-19 23:57:22
Local clock offset: -0.105 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.768 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.784 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.718 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.696 ms
Loss rate: 1.08%

Run 5: Report of SCReAM — Data Link

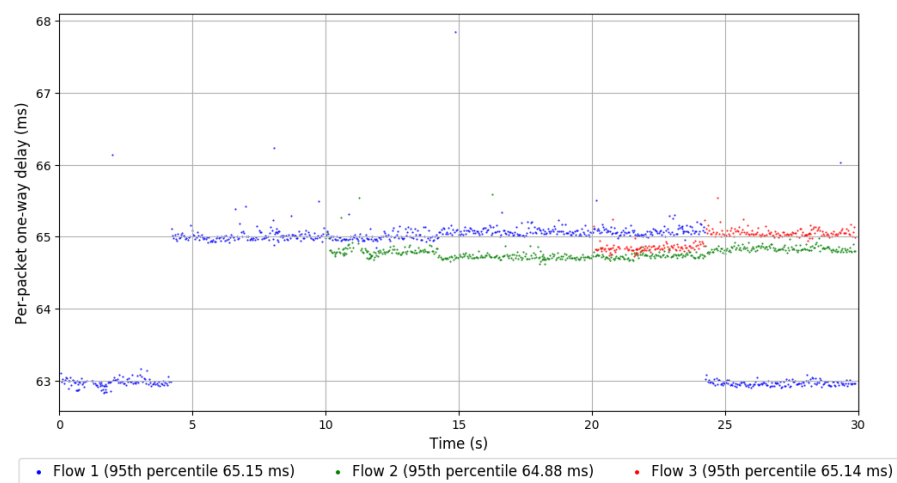
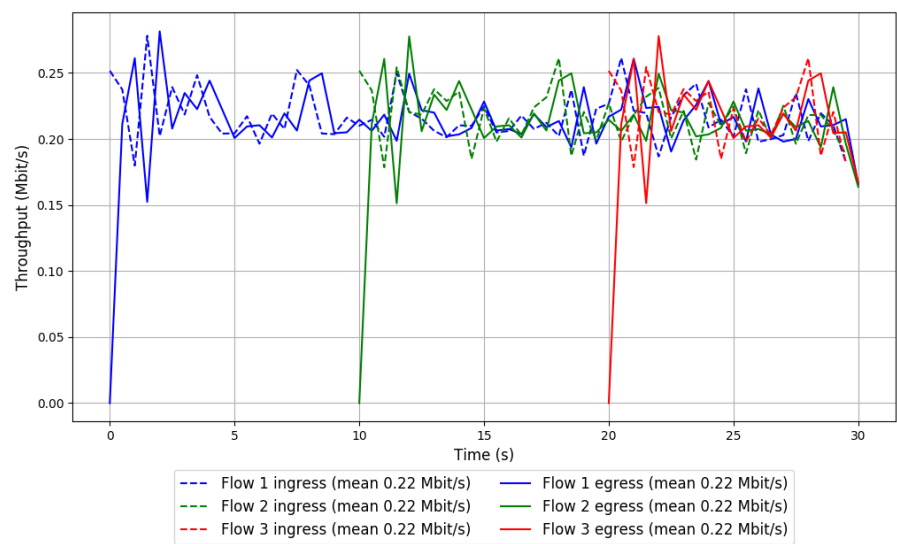


Run 6: Statistics of SReAM

Start at: 2018-06-20 00:20:27
End at: 2018-06-20 00:20:57
Local clock offset: -0.044 ms
Remote clock offset: -1.289 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 65.126 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.147 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.882 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.136 ms
Loss rate: 1.08%

Run 6: Report of SCRaM — Data Link

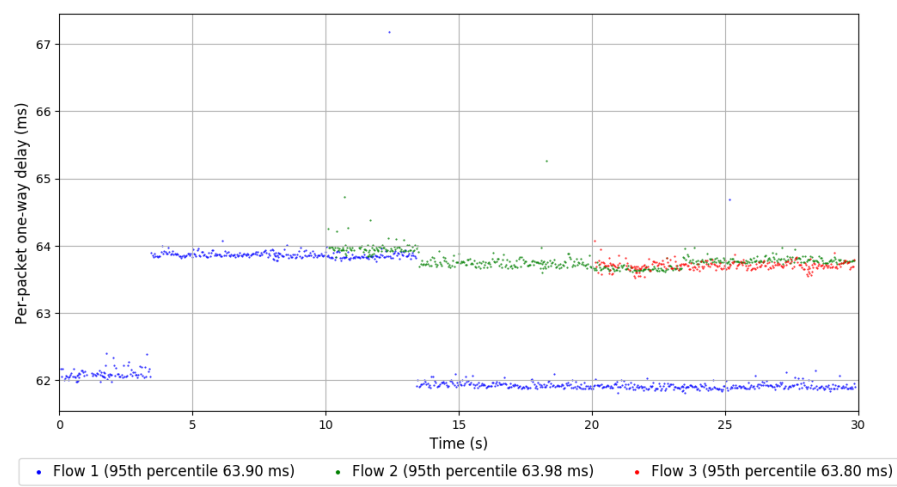
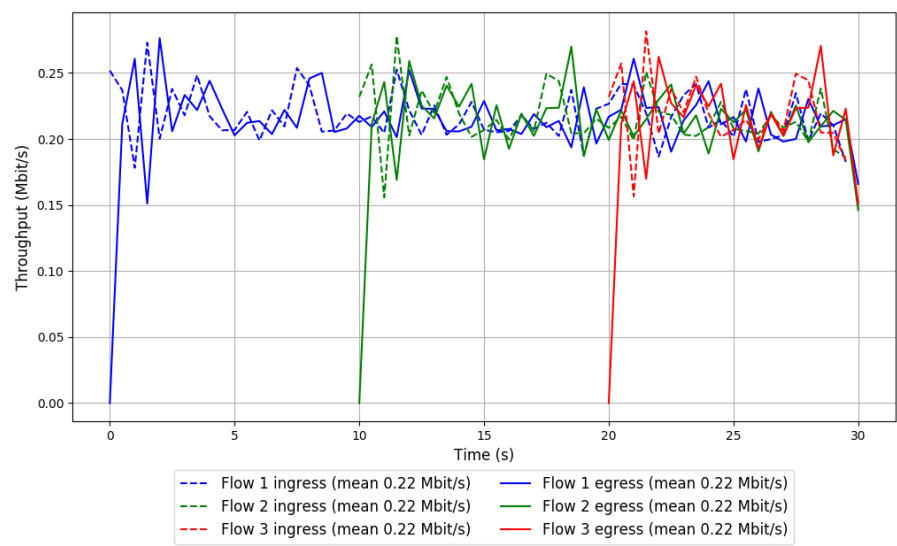


Run 7: Statistics of SReAM

Start at: 2018-06-20 00:43:28
End at: 2018-06-20 00:43:58
Local clock offset: -0.029 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.937 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.903 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.976 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.798 ms
Loss rate: 1.10%

Run 7: Report of SReAM — Data Link

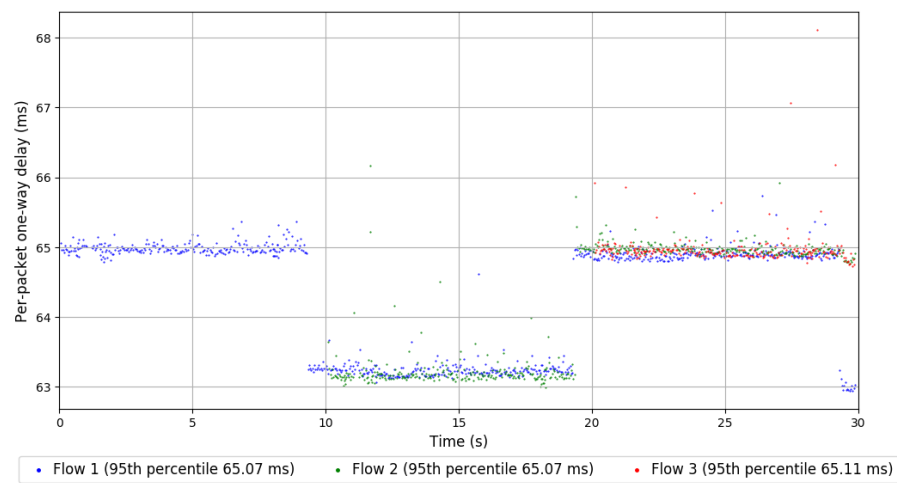
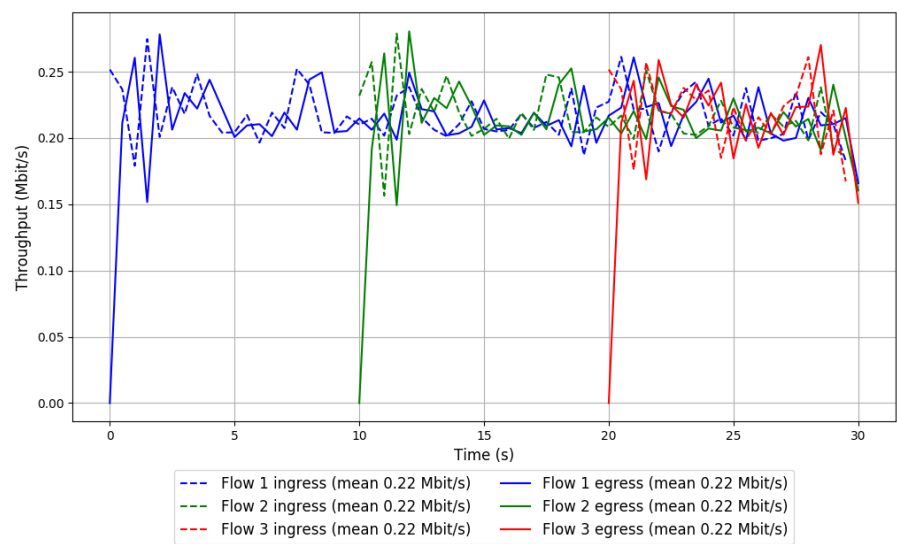


Run 8: Statistics of SReAM

Start at: 2018-06-20 01:07:02
End at: 2018-06-20 01:07:32
Local clock offset: -0.056 ms
Remote clock offset: -1.337 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 65.072 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.067 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.068 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.108 ms
Loss rate: 1.10%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-20 01:30:33

End at: 2018-06-20 01:31:03

Local clock offset: 0.021 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-20 04:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.832 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.61%

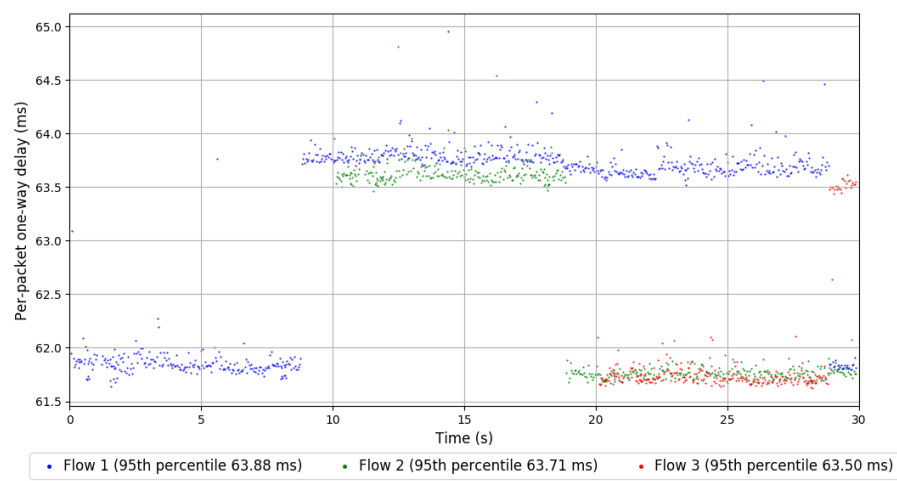
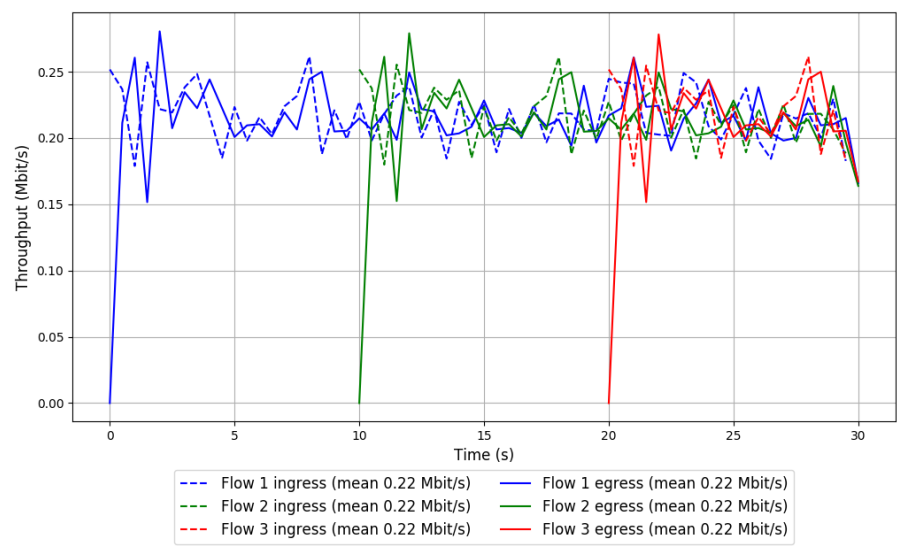
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.504 ms

Loss rate: 1.08%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-20 01:54:00

End at: 2018-06-20 01:54:30

Local clock offset: 0.05 ms

Remote clock offset: 1.133 ms

Below is generated by plot.py at 2018-06-20 04:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 62.631 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.561 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.689 ms

Loss rate: 0.61%

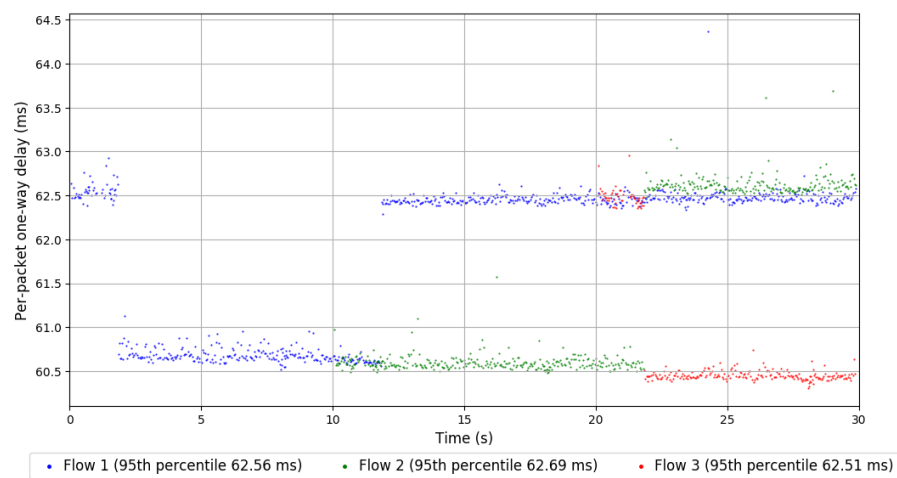
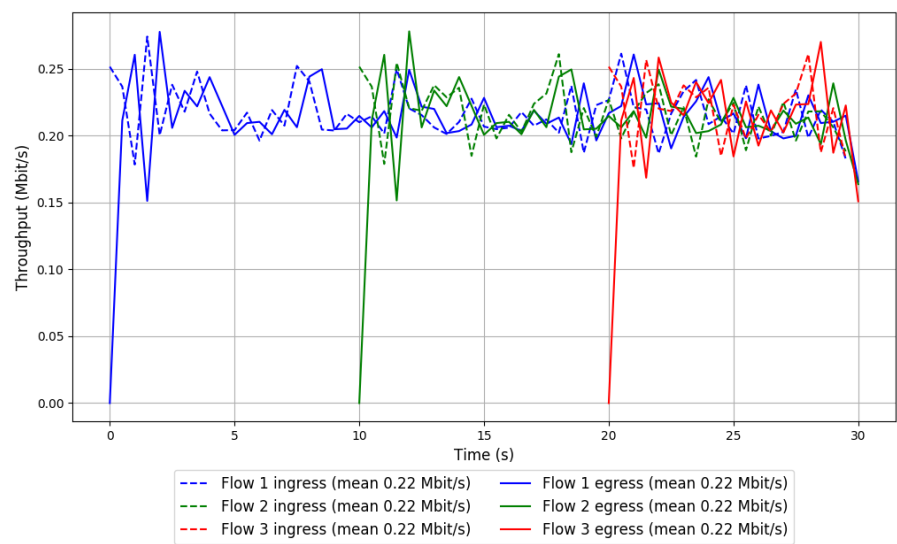
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.513 ms

Loss rate: 1.45%

Run 10: Report of SReAM — Data Link

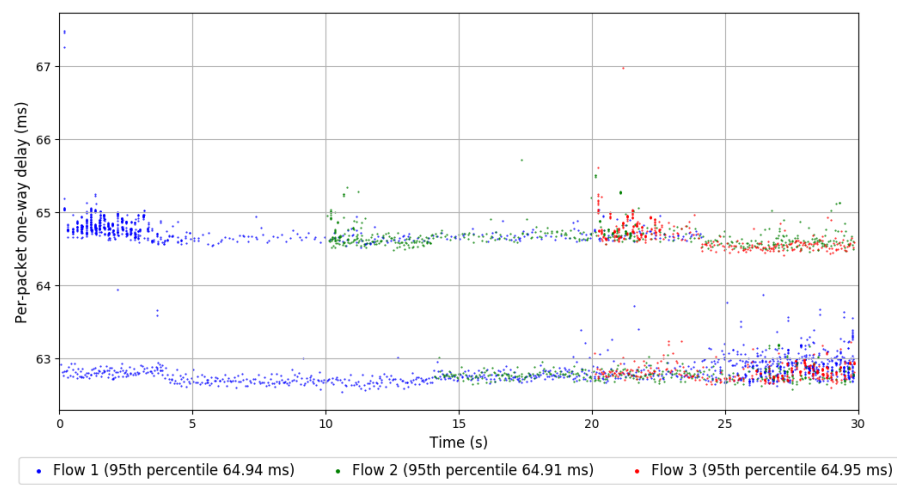
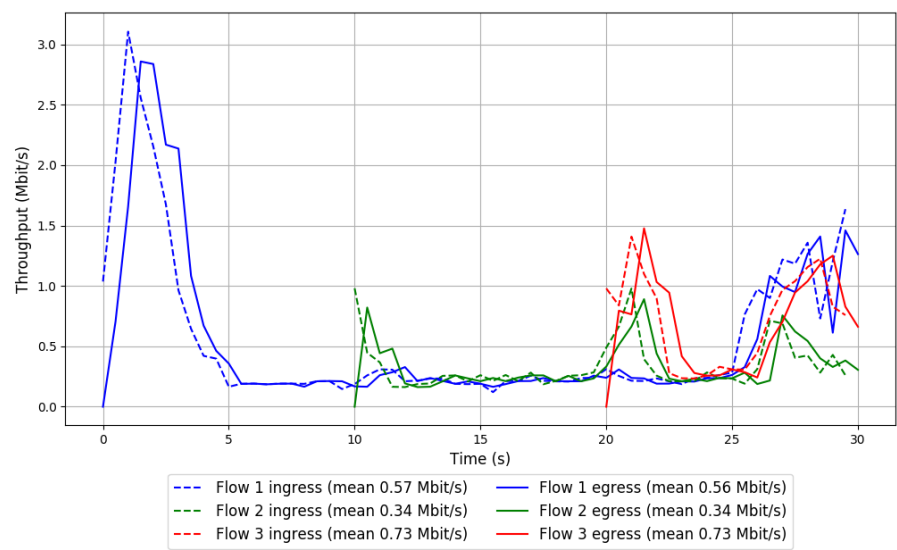


Run 1: Statistics of Sprout

Start at: 2018-06-19 22:16:58
End at: 2018-06-19 22:17:28
Local clock offset: 0.581 ms
Remote clock offset: -1.065 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 64.937 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 64.938 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 64.912 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 64.946 ms
Loss rate: 1.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-19 22:40:24

End at: 2018-06-19 22:40:54

Local clock offset: 0.09 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-06-20 04:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 63.672 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.662 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 63.718 ms

Loss rate: 0.24%

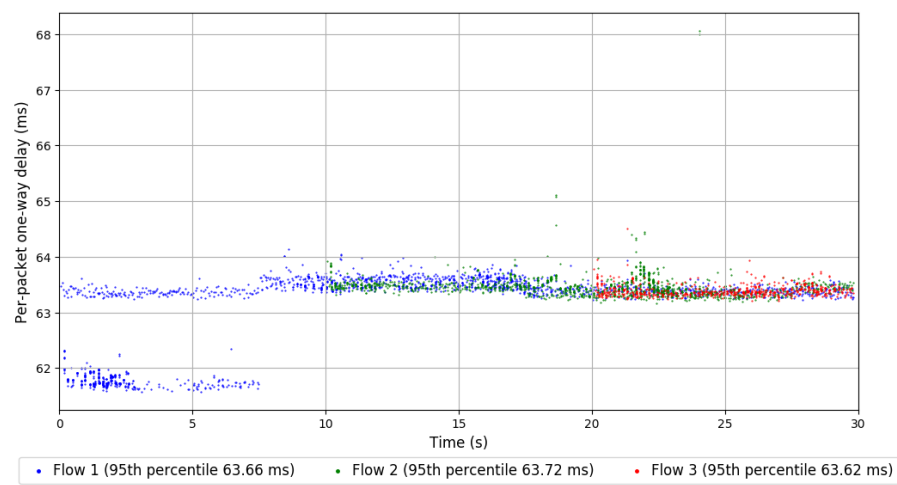
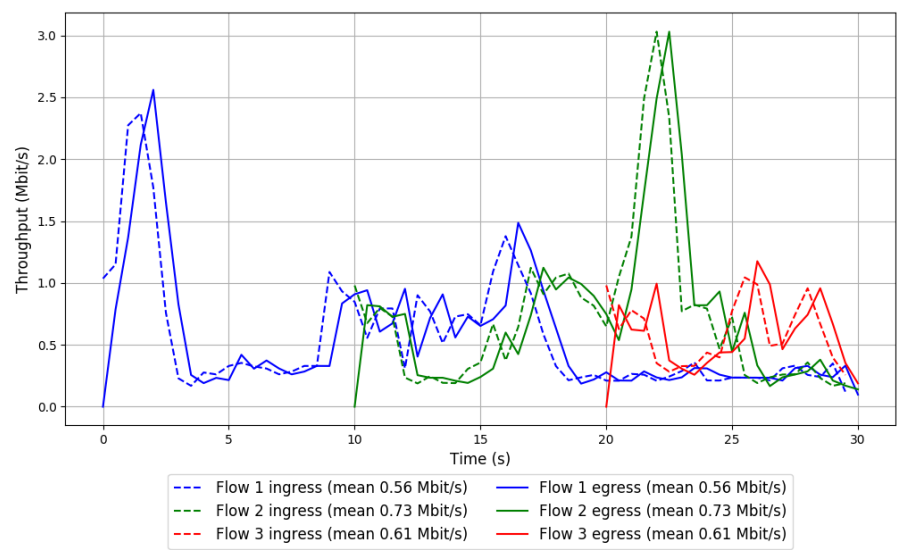
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 63.617 ms

Loss rate: 0.94%

Run 2: Report of Sprout — Data Link

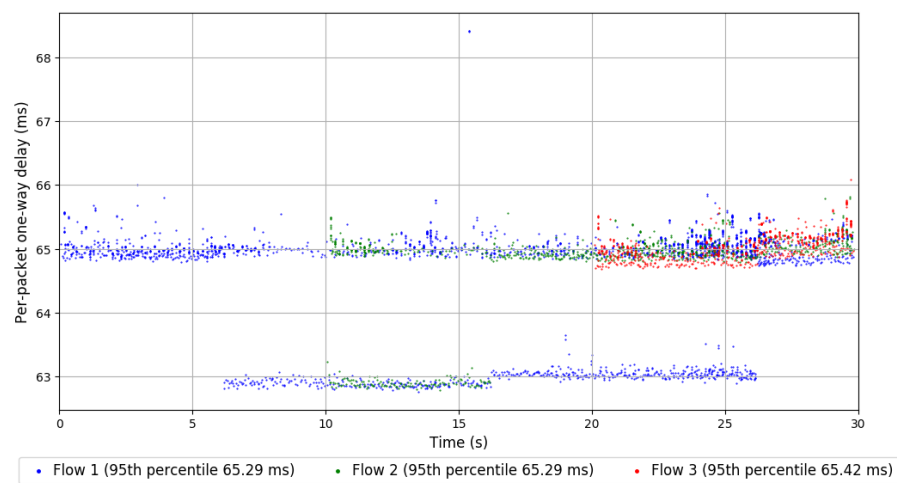
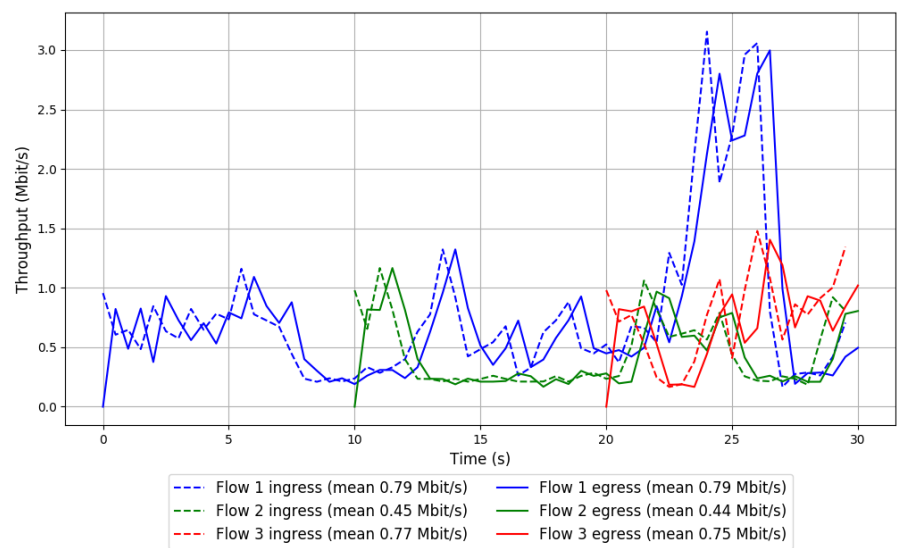


Run 3: Statistics of Sprout

Start at: 2018-06-19 23:03:45
End at: 2018-06-19 23:04:15
Local clock offset: -0.241 ms
Remote clock offset: -1.317 ms

```
# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 65.326 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 65.291 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 65.294 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 65.425 ms
Loss rate: 5.00%
```

Run 3: Report of Sprout — Data Link

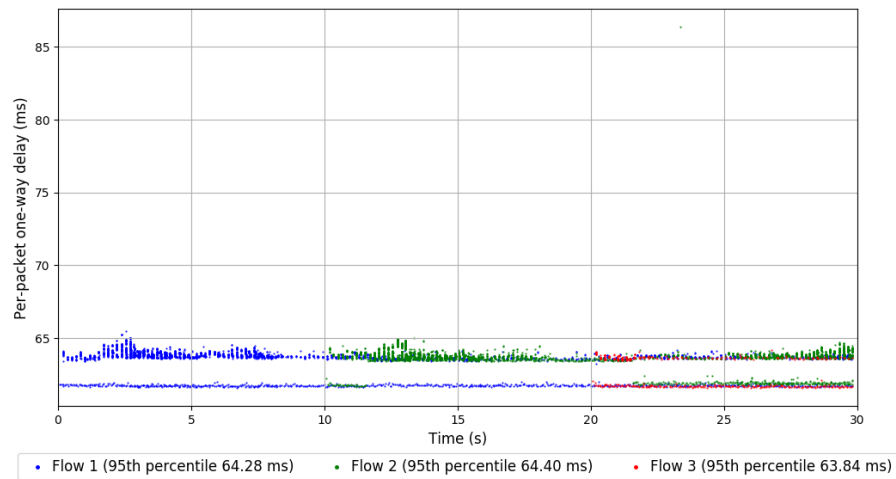
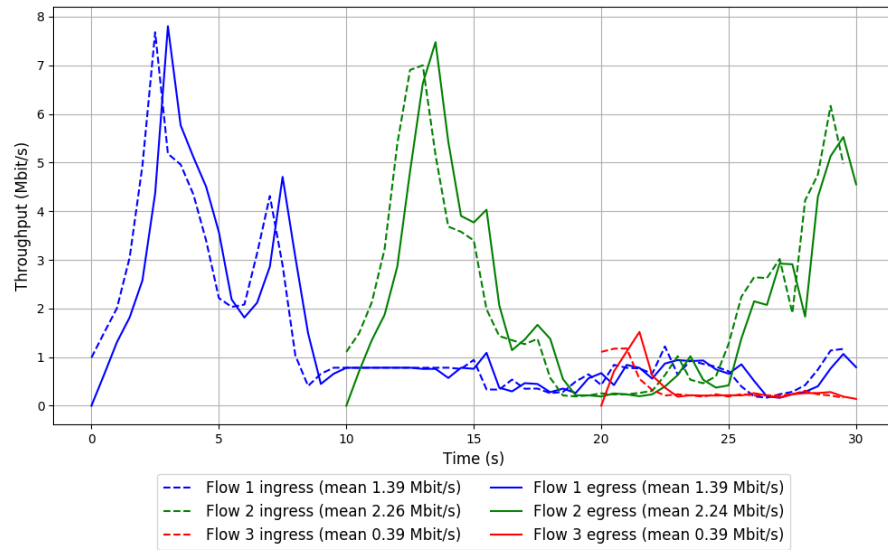


Run 4: Statistics of Sprout

Start at: 2018-06-19 23:27:00
End at: 2018-06-19 23:27:30
Local clock offset: -0.134 ms
Remote clock offset: -0.085 ms

```
# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 64.326 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 64.285 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 64.396 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 63.840 ms
Loss rate: 0.62%
```

Run 4: Report of Sprout — Data Link

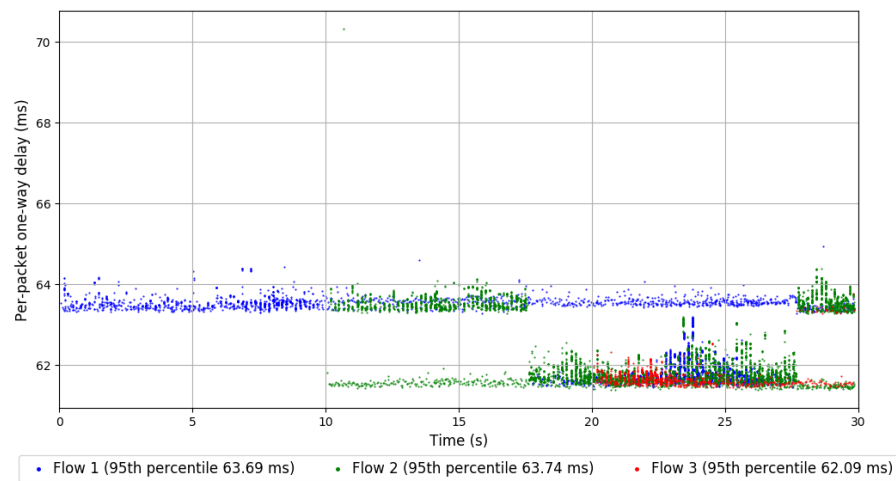
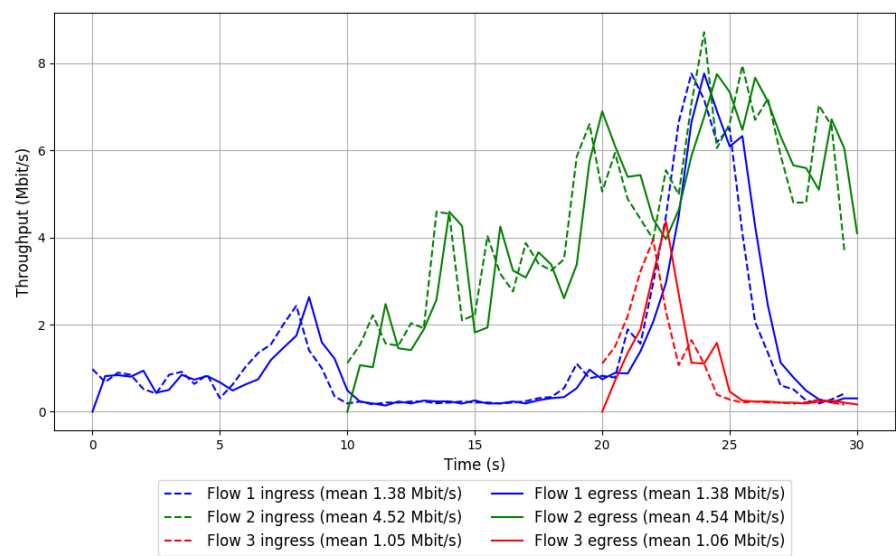


Run 5: Statistics of Sprout

Start at: 2018-06-19 23:50:34
End at: 2018-06-19 23:51:04
Local clock offset: -0.169 ms
Remote clock offset: 0.147 ms

```
# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 63.710 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 63.693 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 62.085 ms
Loss rate: 0.11%
```


Run 5: Report of Sprout — Data Link

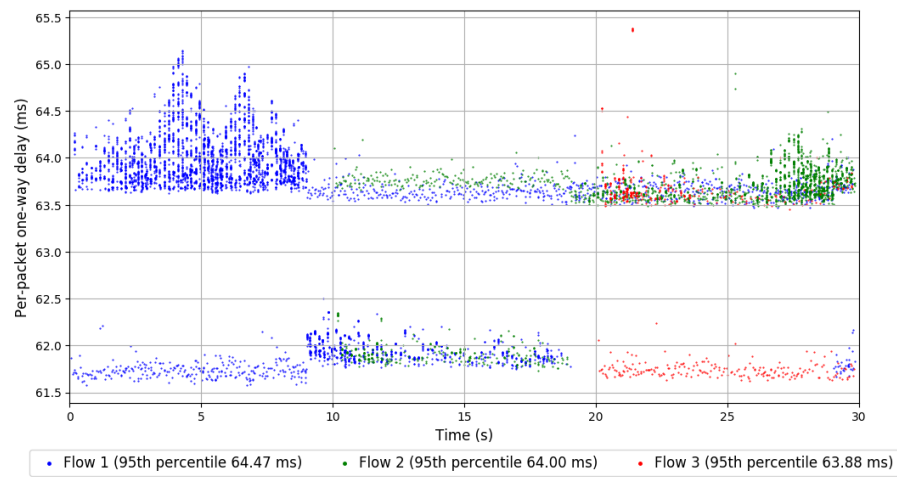
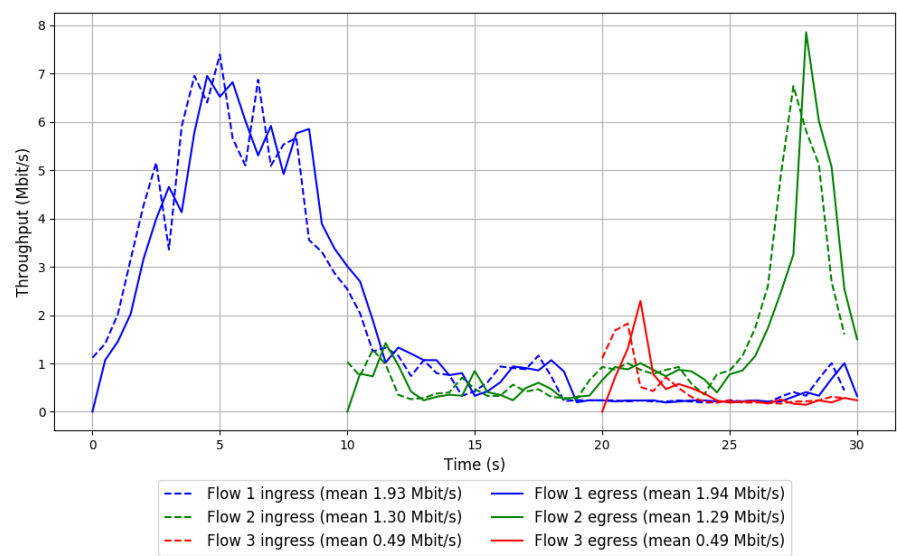


Run 6: Statistics of Sprout

Start at: 2018-06-20 00:14:13
End at: 2018-06-20 00:14:43
Local clock offset: -0.131 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 64.387 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 64.473 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 63.880 ms
Loss rate: 1.67%

Run 6: Report of Sprout — Data Link

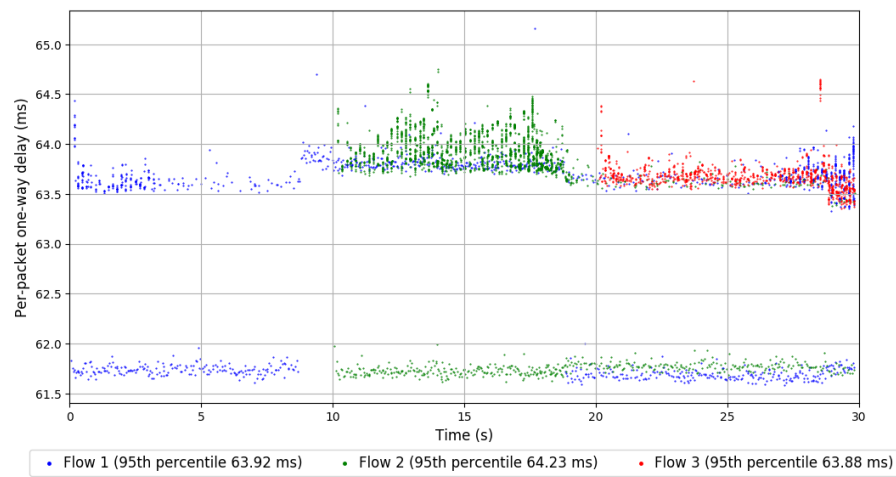
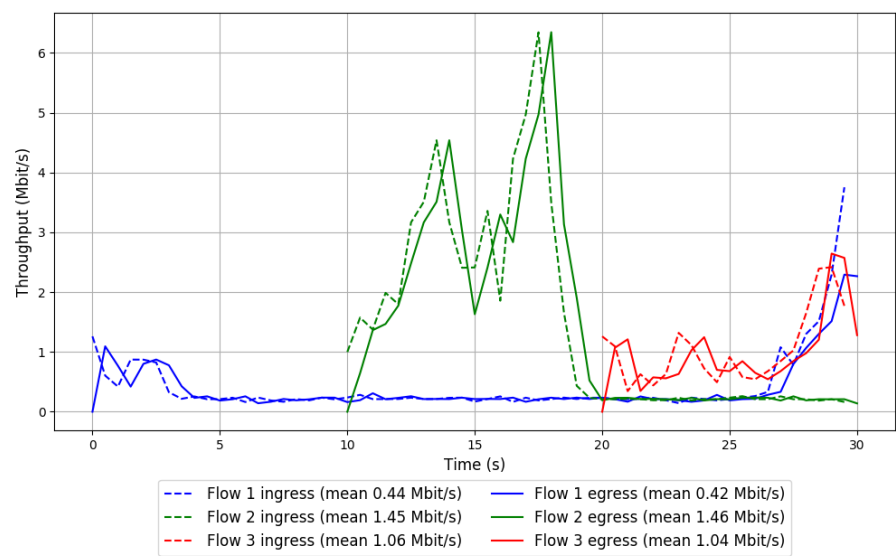


Run 7: Statistics of Sprout

Start at: 2018-06-20 00:37:13
End at: 2018-06-20 00:37:43
Local clock offset: -0.042 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 64.178 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 63.918 ms
Loss rate: 5.69%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 64.231 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 63.884 ms
Loss rate: 2.75%

Run 7: Report of Sprout — Data Link

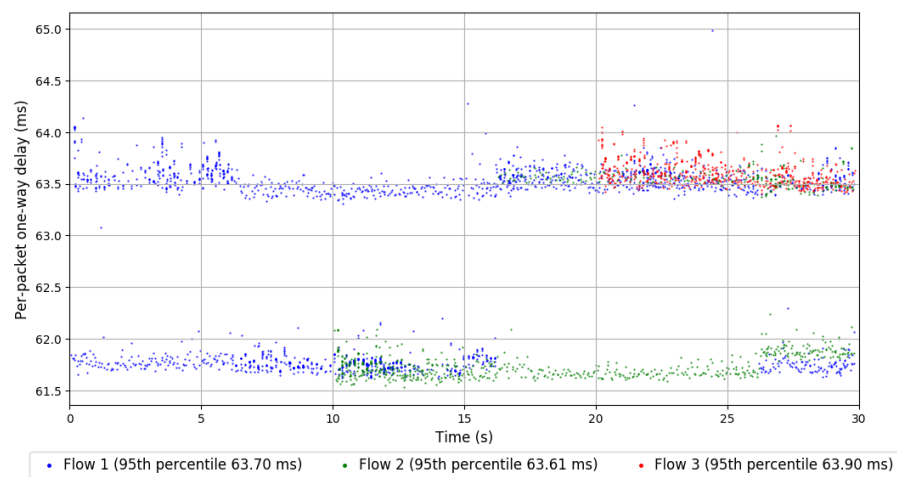
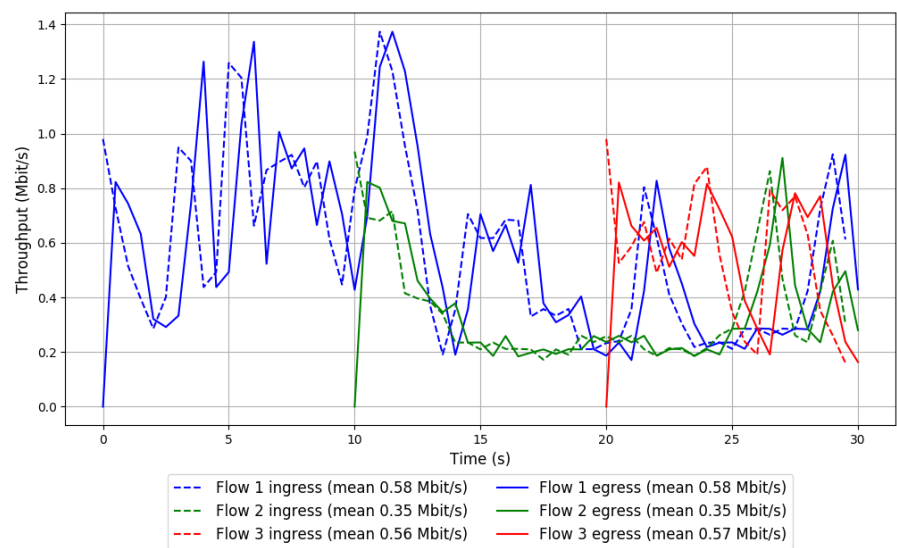


Run 8: Statistics of Sprout

Start at: 2018-06-20 01:00:45
End at: 2018-06-20 01:01:15
Local clock offset: -0.047 ms
Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 63.744 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 63.705 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 63.610 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 63.900 ms
Loss rate: 0.20%

Run 8: Report of Sprout — Data Link

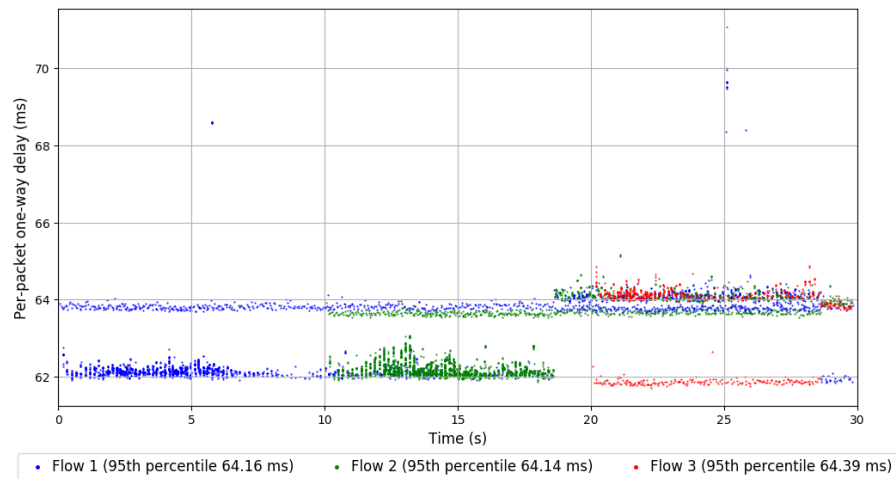
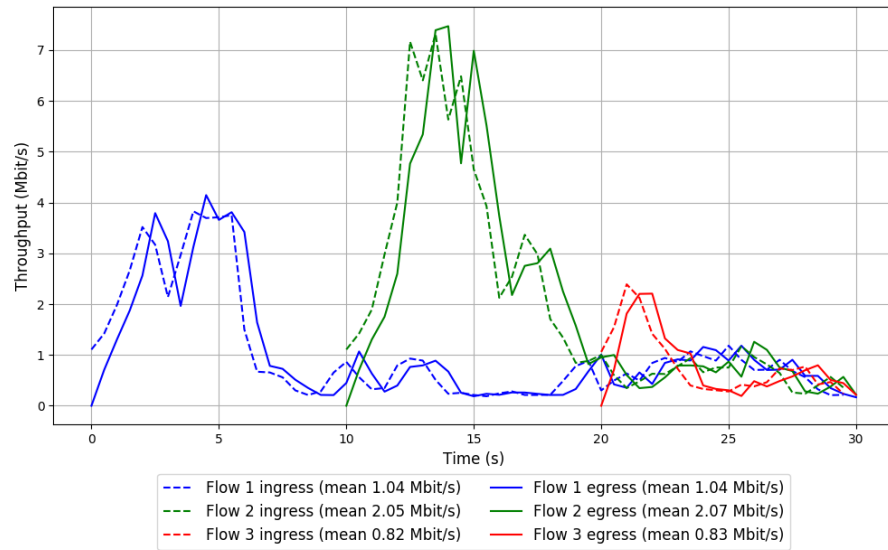


Run 9: Statistics of Sprout

Start at: 2018-06-20 01:24:13
End at: 2018-06-20 01:24:43
Local clock offset: -0.025 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-06-20 04:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 64.193 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 64.161 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 64.143 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 64.390 ms
Loss rate: 0.57%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-20 01:47:40

End at: 2018-06-20 01:48:10

Local clock offset: 0.059 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-20 04:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 64.154 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 64.215 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 64.033 ms

Loss rate: 0.08%

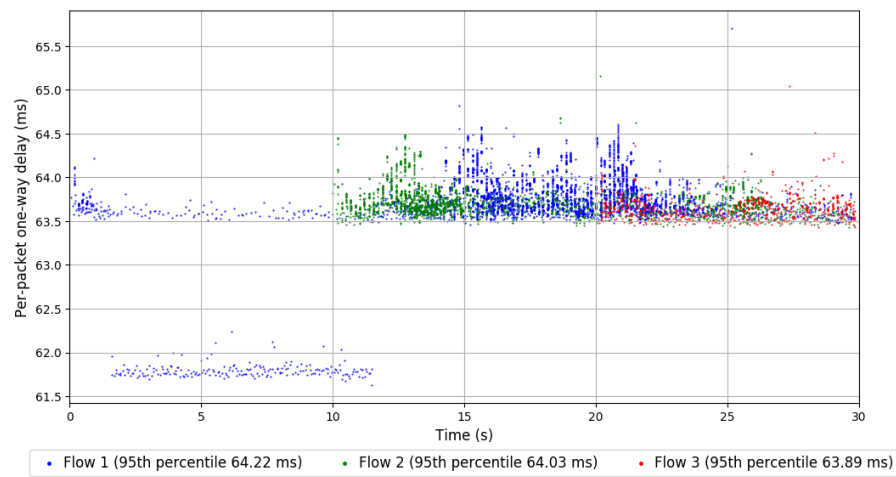
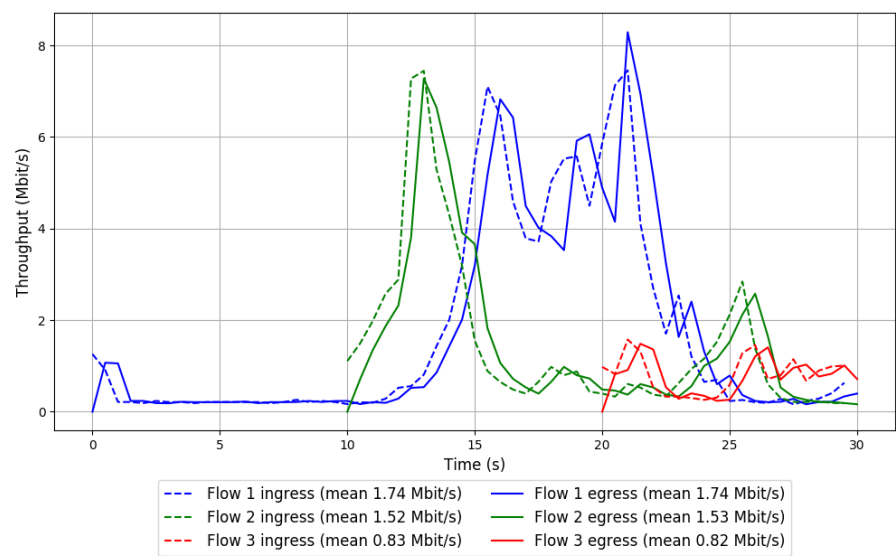
-- Flow 3:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 63.888 ms

Loss rate: 2.23%

Run 10: Report of Sprout — Data Link

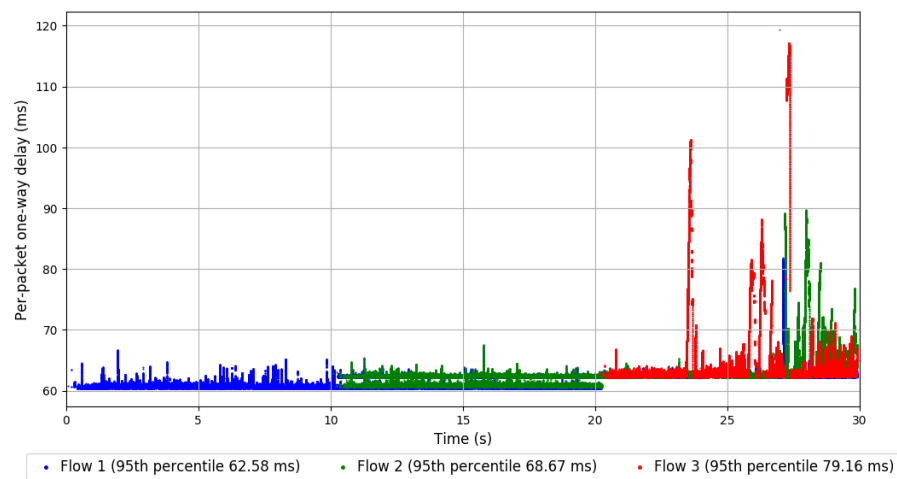
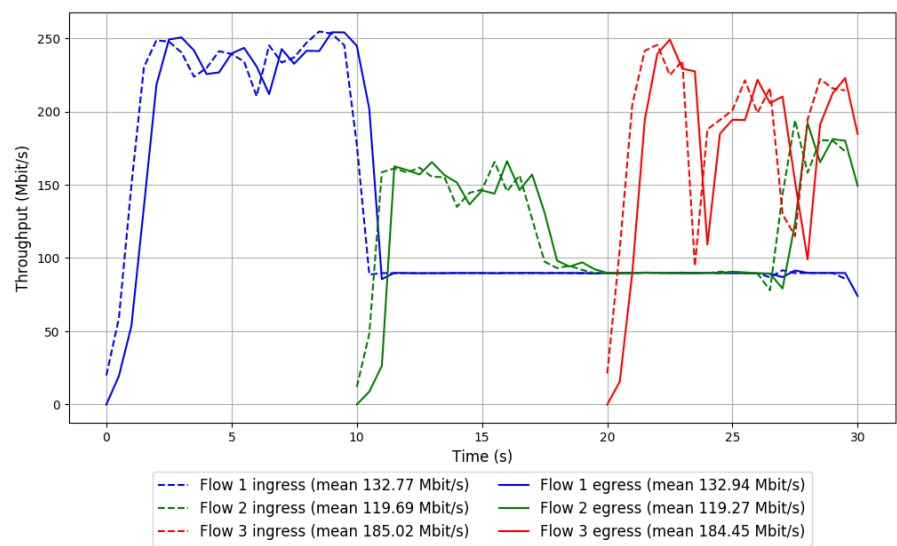


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 22:26:01
End at: 2018-06-19 22:26:31
Local clock offset: 0.642 ms
Remote clock offset: 1.164 ms

# Below is generated by plot.py at 2018-06-20 04:22:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.83 Mbit/s
95th percentile per-packet one-way delay: 66.946 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 132.94 Mbit/s
95th percentile per-packet one-way delay: 62.582 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 119.27 Mbit/s
95th percentile per-packet one-way delay: 68.667 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 184.45 Mbit/s
95th percentile per-packet one-way delay: 79.159 ms
Loss rate: 1.55%
```

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

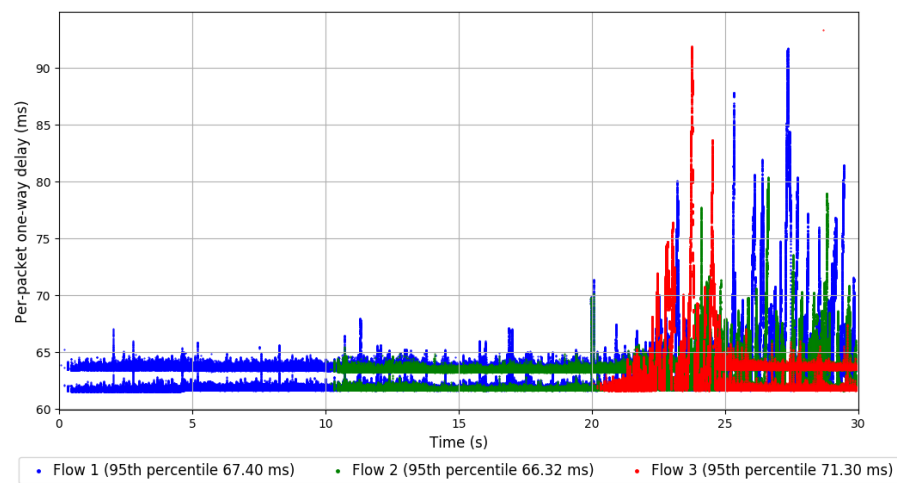
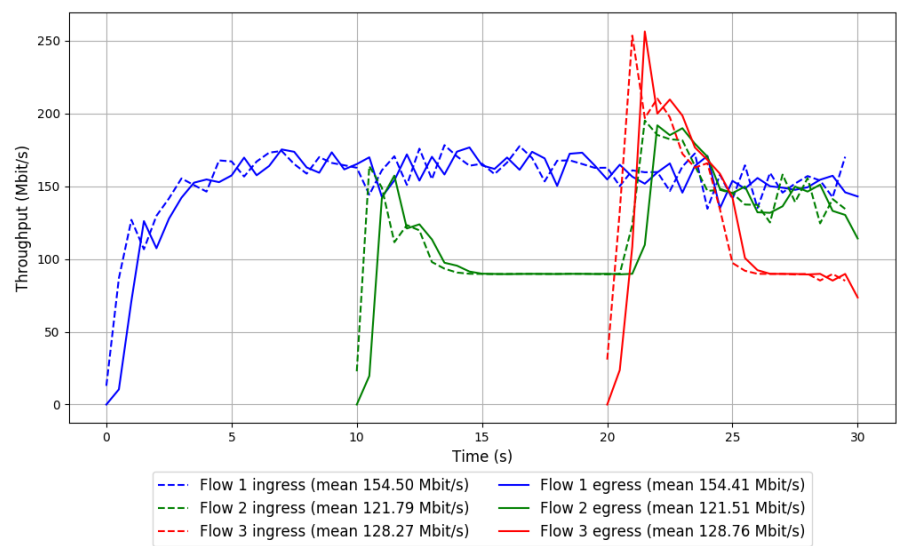


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 22:49:27
End at: 2018-06-19 22:49:57
Local clock offset: -0.137 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-20 04:22:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.60 Mbit/s
95th percentile per-packet one-way delay: 67.969 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 154.41 Mbit/s
95th percentile per-packet one-way delay: 67.400 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 121.51 Mbit/s
95th percentile per-packet one-way delay: 66.319 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 128.76 Mbit/s
95th percentile per-packet one-way delay: 71.299 ms
Loss rate: 0.89%

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

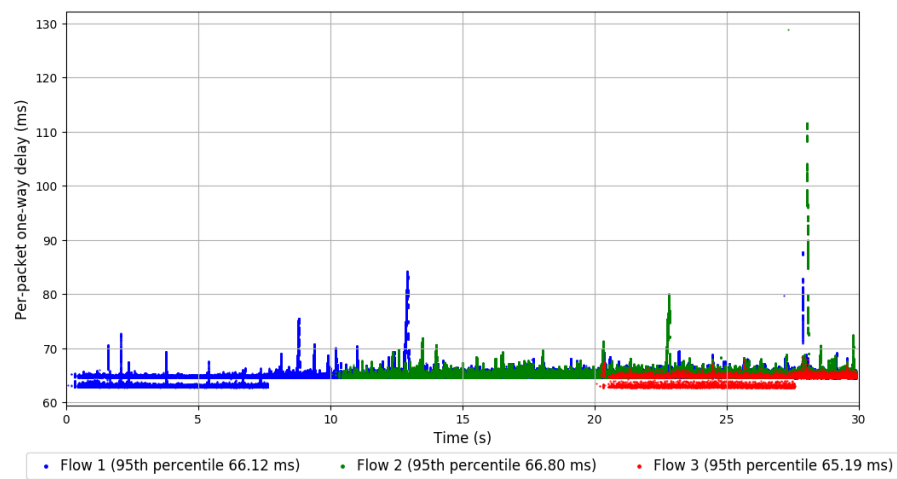
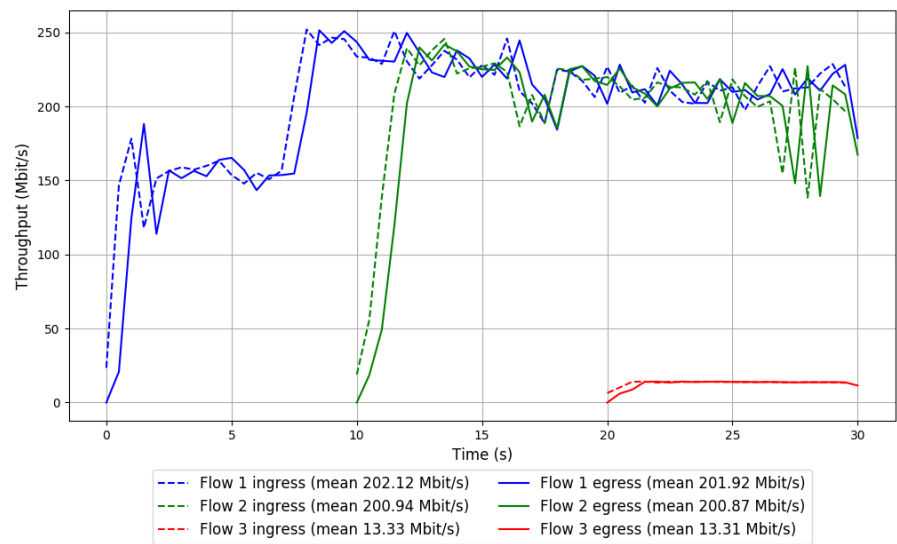


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 23:12:44
End at: 2018-06-19 23:13:14
Local clock offset: -0.108 ms
Remote clock offset: -1.303 ms

Below is generated by plot.py at 2018-06-20 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 339.88 Mbit/s
95th percentile per-packet one-way delay: 66.400 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 201.92 Mbit/s
95th percentile per-packet one-way delay: 66.121 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 200.87 Mbit/s
95th percentile per-packet one-way delay: 66.800 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 65.187 ms
Loss rate: 1.37%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 23:36:03

End at: 2018-06-19 23:36:33

Local clock offset: -0.115 ms

Remote clock offset: -0.21 ms

Below is generated by plot.py at 2018-06-20 04:25:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.81 Mbit/s

95th percentile per-packet one-way delay: 65.720 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 190.36 Mbit/s

95th percentile per-packet one-way delay: 66.894 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 145.43 Mbit/s

95th percentile per-packet one-way delay: 64.116 ms

Loss rate: 0.39%

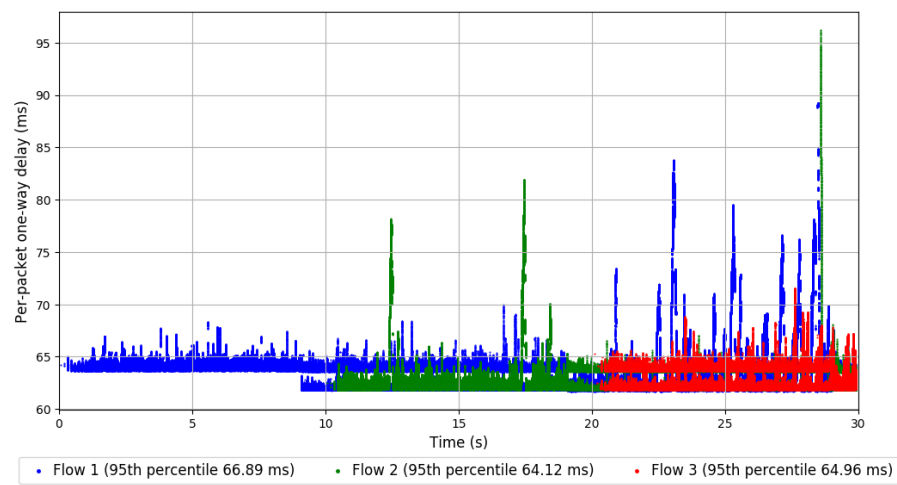
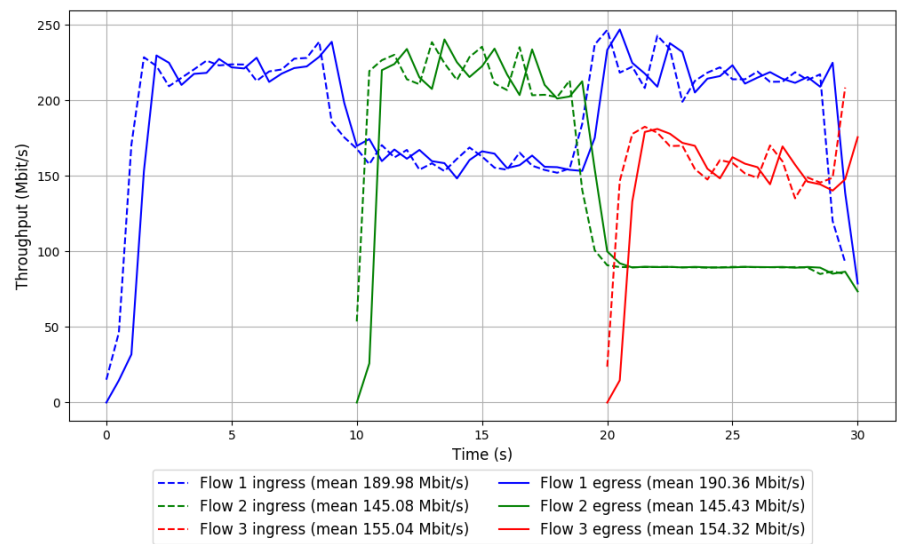
-- Flow 3:

Average throughput: 154.32 Mbit/s

95th percentile per-packet one-way delay: 64.957 ms

Loss rate: 1.77%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 23:59:38

End at: 2018-06-20 00:00:08

Local clock offset: -0.116 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-20 04:25:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.25 Mbit/s

95th percentile per-packet one-way delay: 69.317 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 178.78 Mbit/s

95th percentile per-packet one-way delay: 69.986 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 181.99 Mbit/s

95th percentile per-packet one-way delay: 68.934 ms

Loss rate: 0.14%

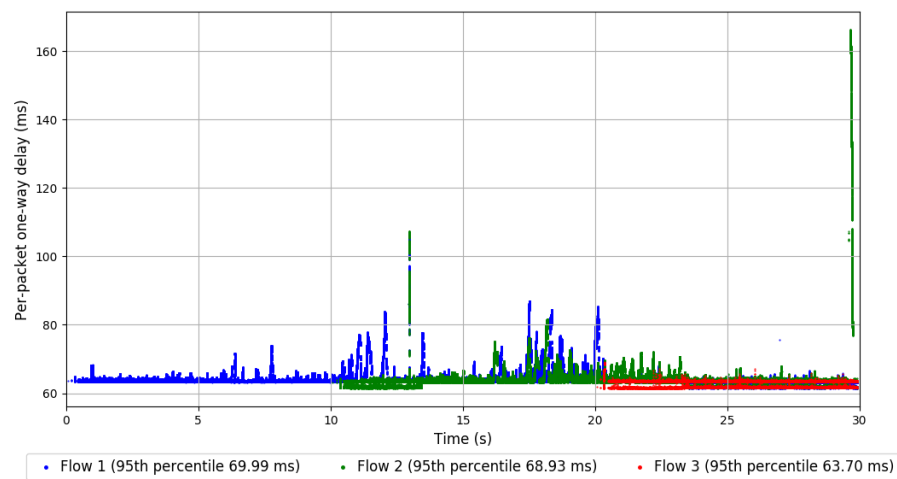
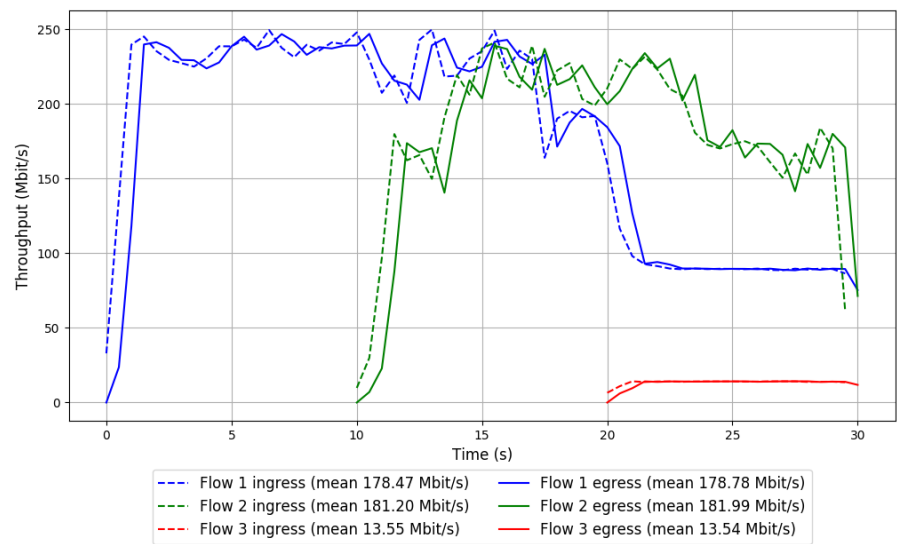
-- Flow 3:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 63.702 ms

Loss rate: 1.31%

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

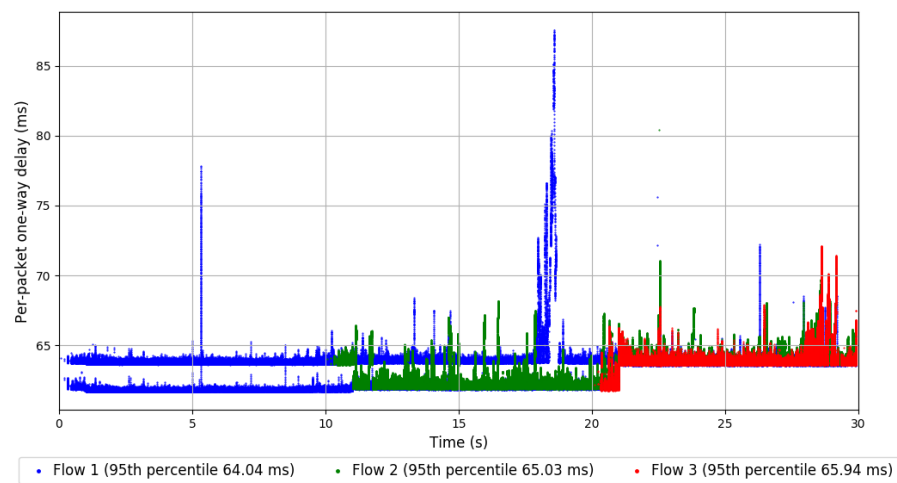
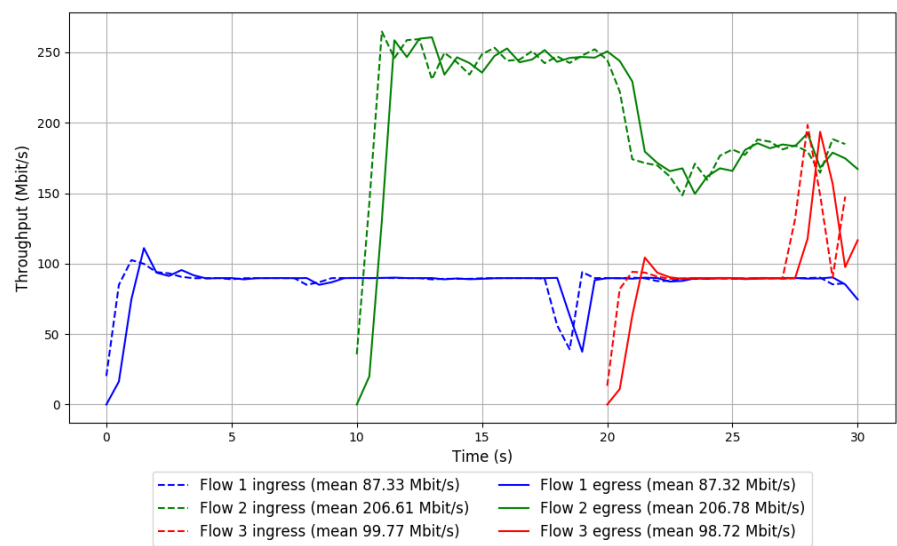


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-20 00:23:11
End at: 2018-06-20 00:23:41
Local clock offset: -0.07 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-06-20 04:25:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 257.28 Mbit/s
95th percentile per-packet one-way delay: 64.822 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 87.32 Mbit/s
95th percentile per-packet one-way delay: 64.038 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 206.78 Mbit/s
95th percentile per-packet one-way delay: 65.028 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 98.72 Mbit/s
95th percentile per-packet one-way delay: 65.935 ms
Loss rate: 2.29%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-20 00:46:14

End at: 2018-06-20 00:46:44

Local clock offset: -0.017 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-20 04:28:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.08 Mbit/s

95th percentile per-packet one-way delay: 68.787 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 206.54 Mbit/s

95th percentile per-packet one-way delay: 69.288 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 158.15 Mbit/s

95th percentile per-packet one-way delay: 66.496 ms

Loss rate: 0.37%

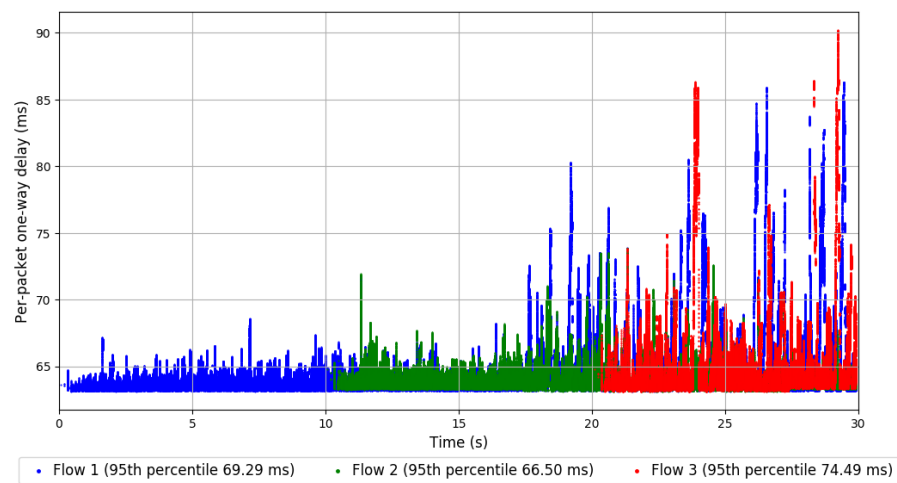
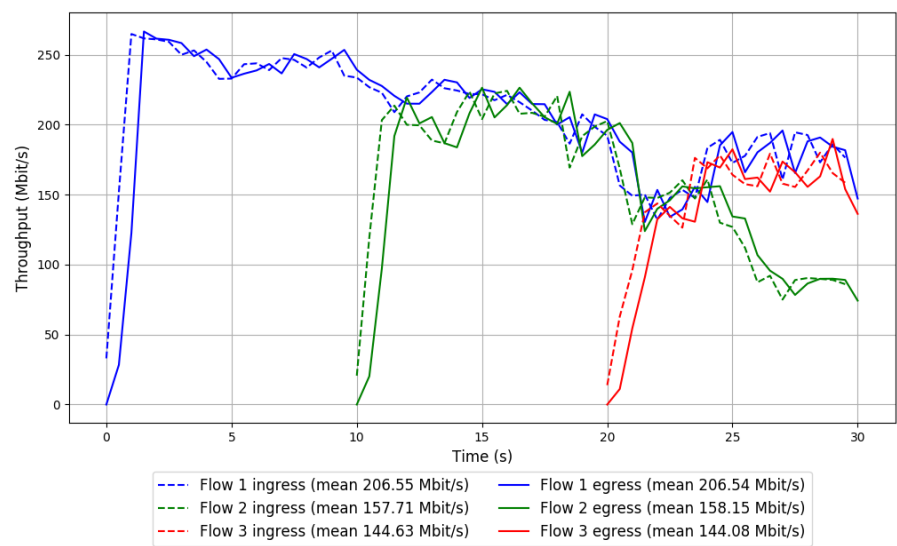
-- Flow 3:

Average throughput: 144.08 Mbit/s

95th percentile per-packet one-way delay: 74.494 ms

Loss rate: 1.65%

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

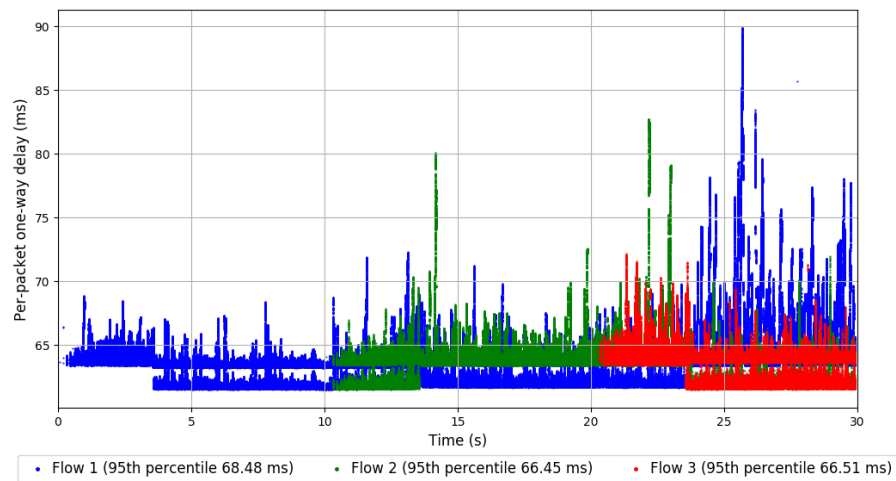
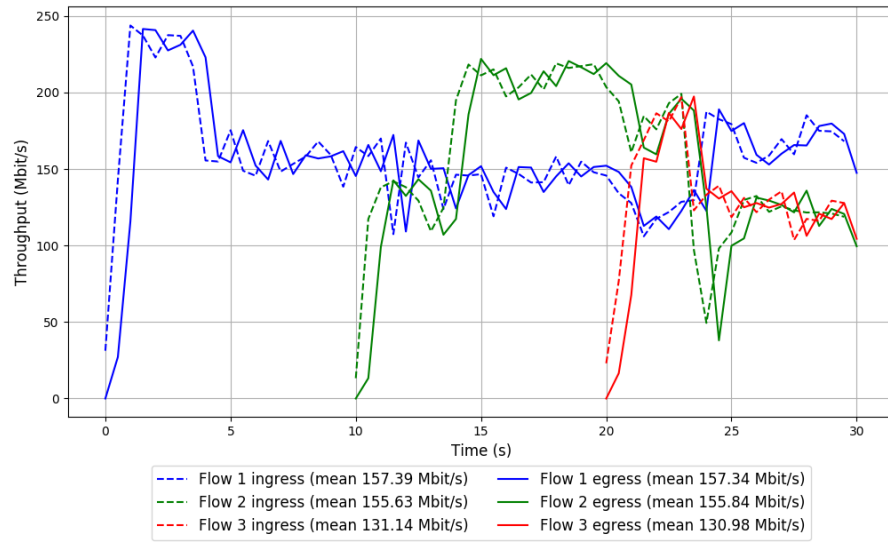


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-20 01:09:48
End at: 2018-06-20 01:10:18
Local clock offset: -0.04 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-20 04:28:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.09 Mbit/s
95th percentile per-packet one-way delay: 67.403 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 157.34 Mbit/s
95th percentile per-packet one-way delay: 68.479 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 155.84 Mbit/s
95th percentile per-packet one-way delay: 66.453 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 130.98 Mbit/s
95th percentile per-packet one-way delay: 66.510 ms
Loss rate: 1.40%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-20 01:33:18

End at: 2018-06-20 01:33:48

Local clock offset: 0.023 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2018-06-20 04:34:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.87 Mbit/s

95th percentile per-packet one-way delay: 65.123 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 146.34 Mbit/s

95th percentile per-packet one-way delay: 64.496 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 179.91 Mbit/s

95th percentile per-packet one-way delay: 65.023 ms

Loss rate: 0.74%

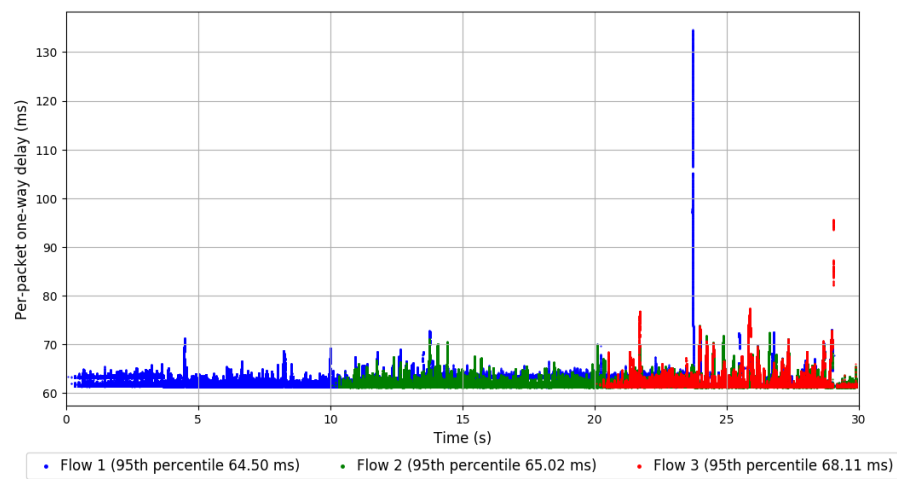
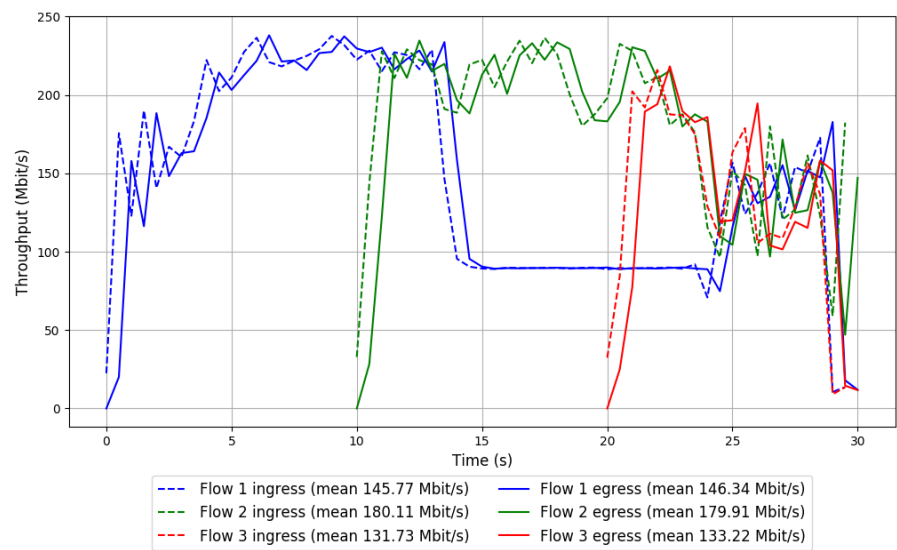
-- Flow 3:

Average throughput: 133.22 Mbit/s

95th percentile per-packet one-way delay: 68.115 ms

Loss rate: 0.13%

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

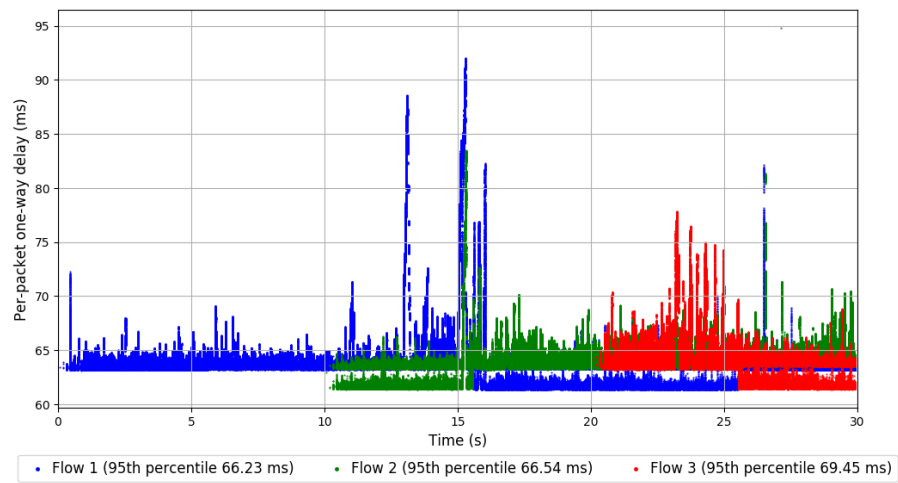
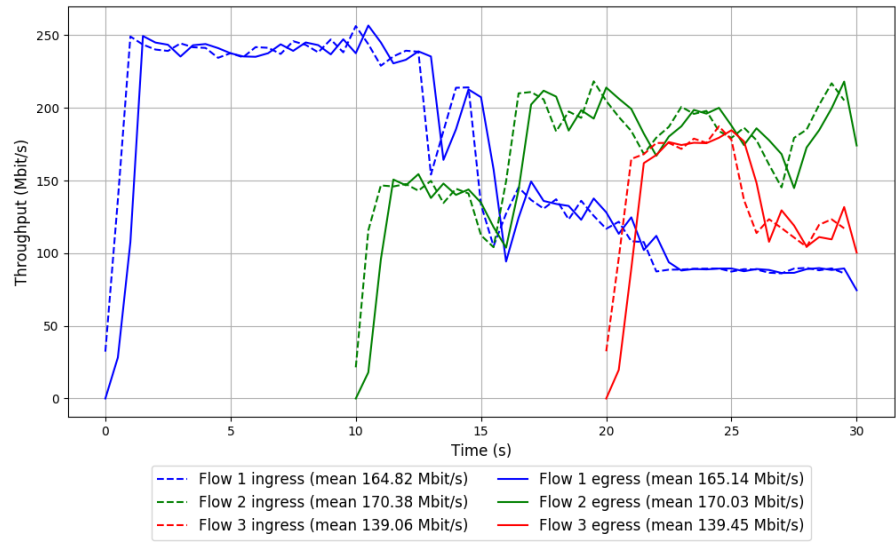


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-20 01:56:46
End at: 2018-06-20 01:57:16
Local clock offset: 0.017 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.16 Mbit/s
95th percentile per-packet one-way delay: 66.797 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 165.14 Mbit/s
95th percentile per-packet one-way delay: 66.226 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 170.03 Mbit/s
95th percentile per-packet one-way delay: 66.543 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 139.45 Mbit/s
95th percentile per-packet one-way delay: 69.449 ms
Loss rate: 1.01%
```

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

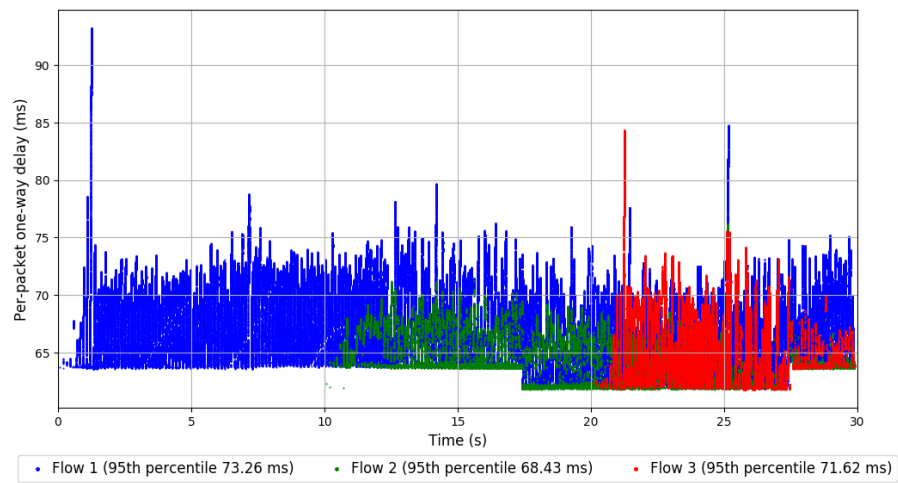
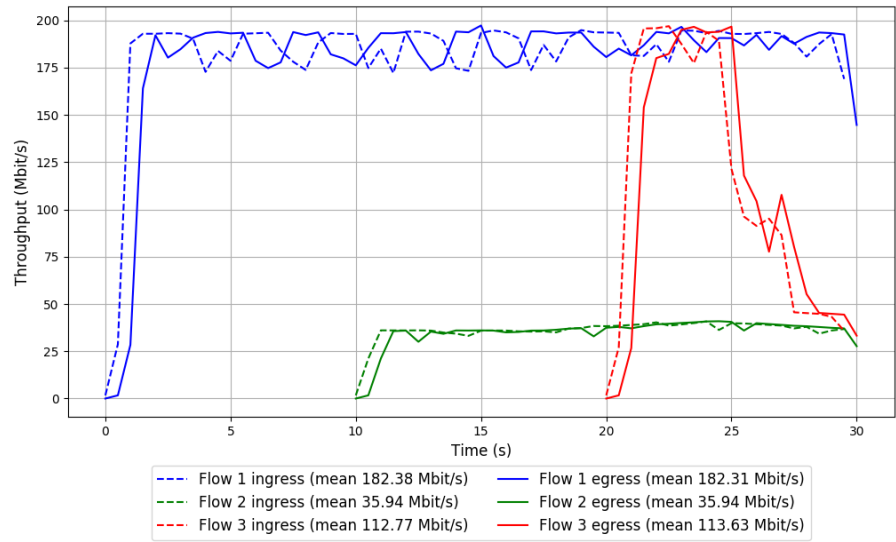


Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 22:21:54
End at: 2018-06-19 22:22:24
Local clock offset: 0.633 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-06-20 04:34:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.21 Mbit/s
95th percentile per-packet one-way delay: 72.963 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 182.31 Mbit/s
95th percentile per-packet one-way delay: 73.256 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 68.430 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 113.63 Mbit/s
95th percentile per-packet one-way delay: 71.618 ms
Loss rate: 0.49%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 22:45:21

End at: 2018-06-19 22:45:51

Local clock offset: -0.029 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-20 04:34:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.68 Mbit/s

95th percentile per-packet one-way delay: 75.401 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 74.191 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 168.48 Mbit/s

95th percentile per-packet one-way delay: 76.031 ms

Loss rate: 0.25%

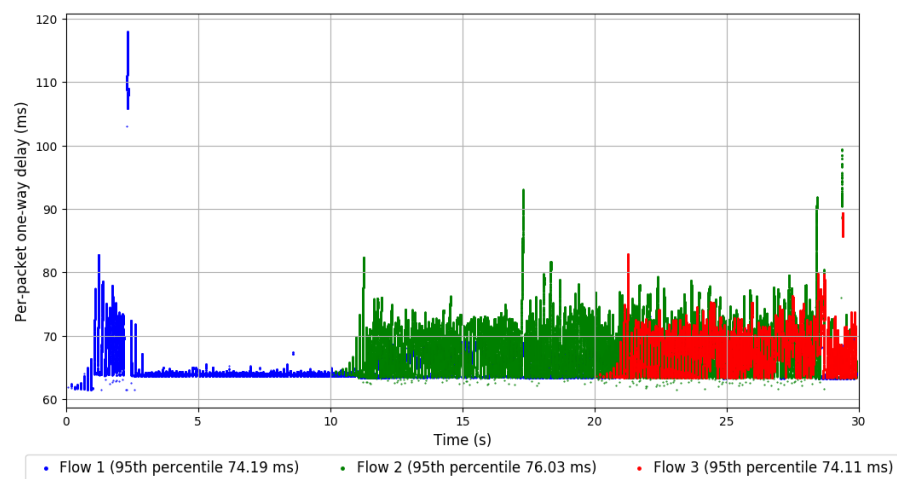
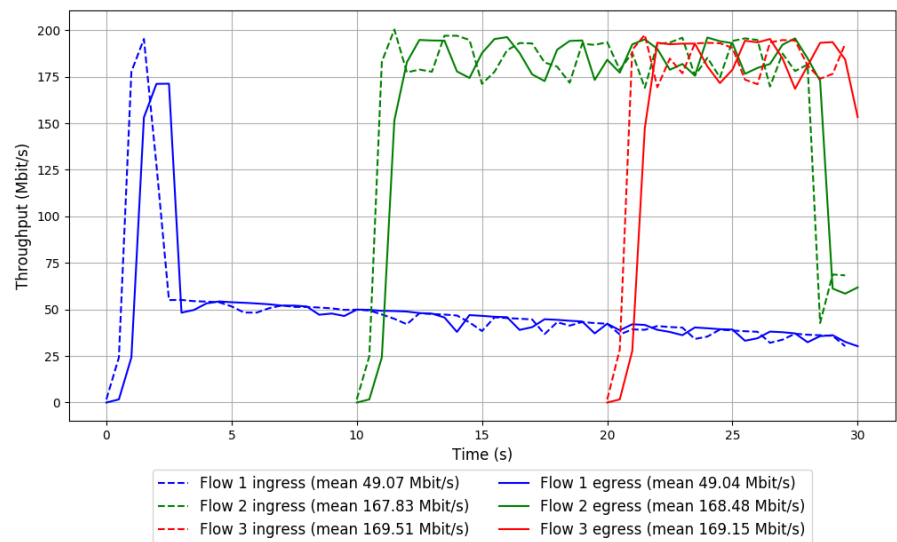
-- Flow 3:

Average throughput: 169.15 Mbit/s

95th percentile per-packet one-way delay: 74.110 ms

Loss rate: 1.43%

Run 2: Report of TCP Vegas — Data Link

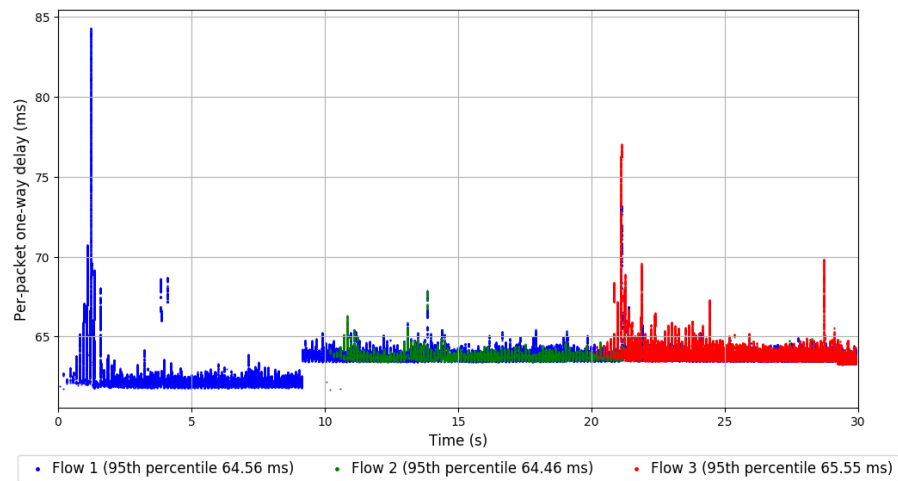
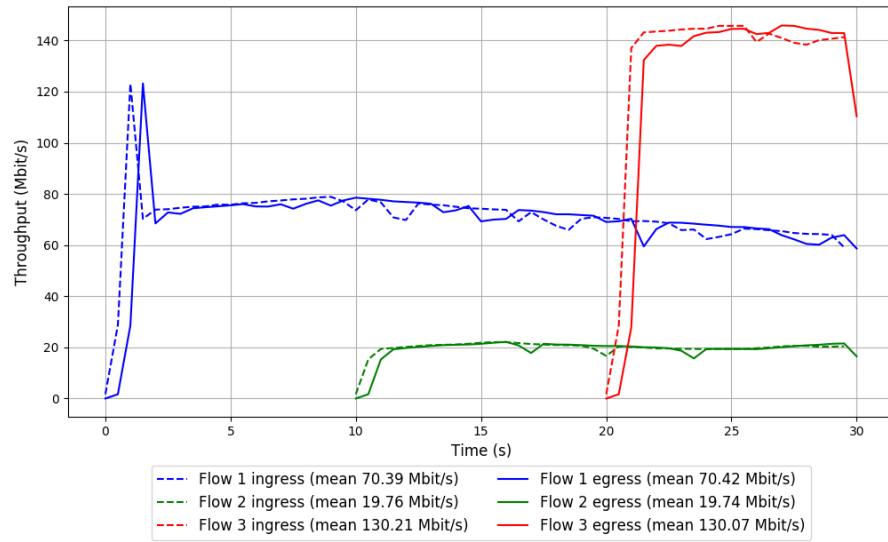


Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 23:08:42
End at: 2018-06-19 23:09:13
Local clock offset: -0.166 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-20 04:34:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 126.32 Mbit/s
95th percentile per-packet one-way delay: 65.032 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 70.42 Mbit/s
95th percentile per-packet one-way delay: 64.560 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 64.464 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 130.07 Mbit/s
95th percentile per-packet one-way delay: 65.552 ms
Loss rate: 1.39%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 23:31:57

End at: 2018-06-19 23:32:27

Local clock offset: -0.105 ms

Remote clock offset: 0.215 ms

Below is generated by plot.py at 2018-06-20 04:34:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.31 Mbit/s

95th percentile per-packet one-way delay: 75.911 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 180.70 Mbit/s

95th percentile per-packet one-way delay: 76.025 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 69.936 ms

Loss rate: 1.27%

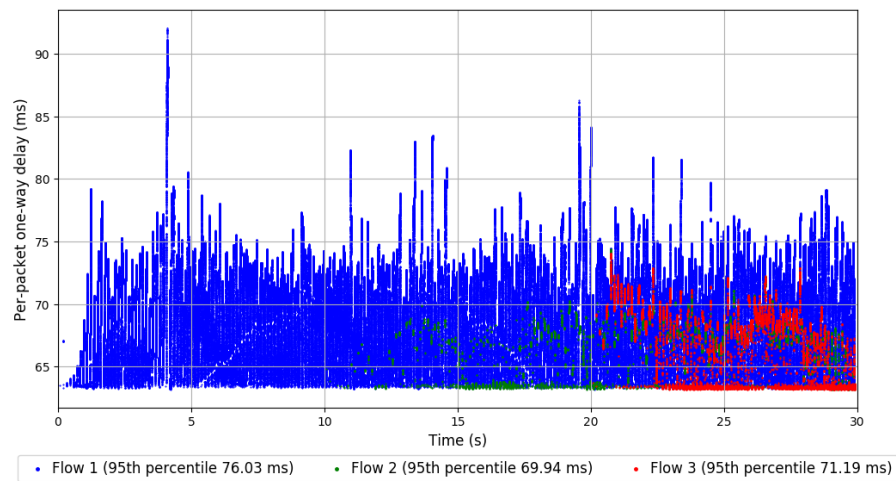
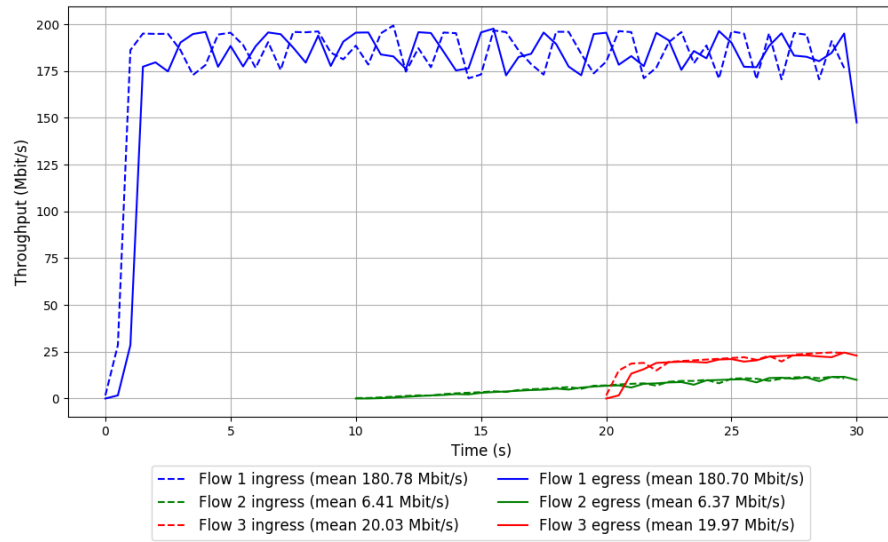
-- Flow 3:

Average throughput: 19.97 Mbit/s

95th percentile per-packet one-way delay: 71.192 ms

Loss rate: 1.58%

Run 4: Report of TCP Vegas — Data Link

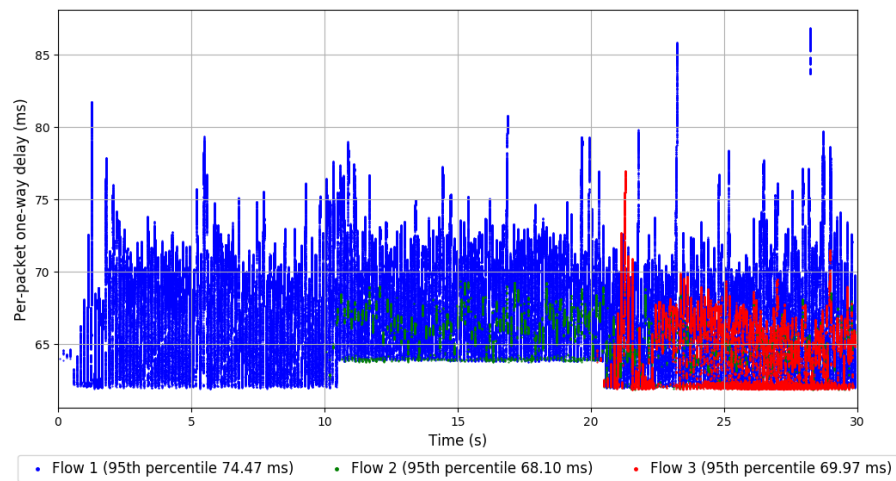
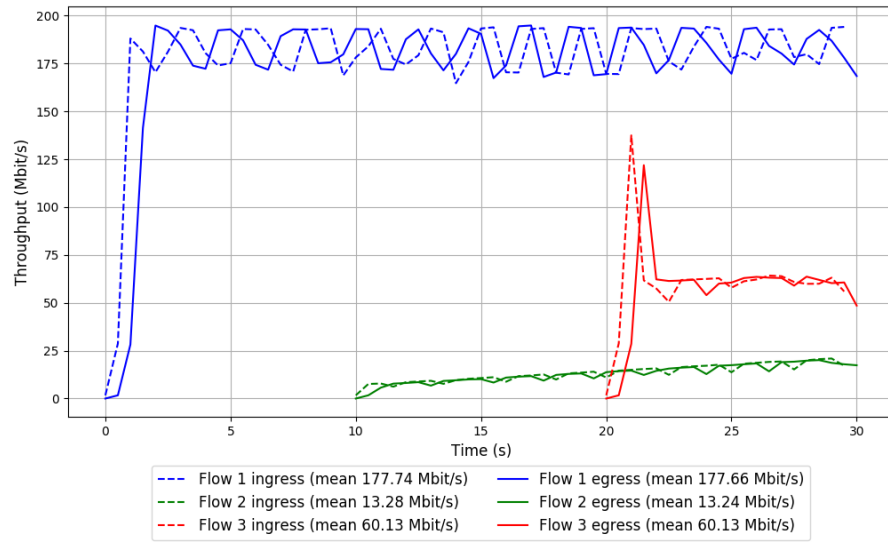


Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 23:55:31
End at: 2018-06-19 23:56:01
Local clock offset: -0.118 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-06-20 04:34:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 206.23 Mbit/s
95th percentile per-packet one-way delay: 74.107 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 177.66 Mbit/s
95th percentile per-packet one-way delay: 74.466 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 68.100 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 60.13 Mbit/s
95th percentile per-packet one-way delay: 69.965 ms
Loss rate: 1.31%

Run 5: Report of TCP Vegas — Data Link

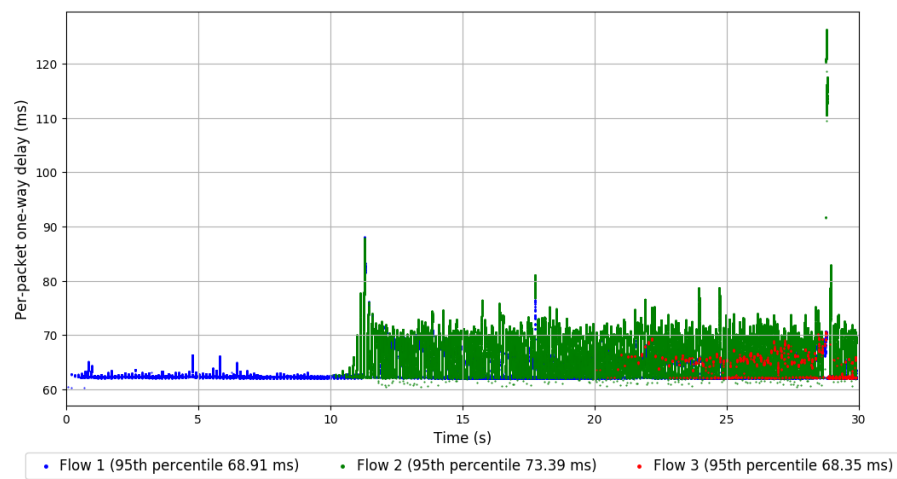
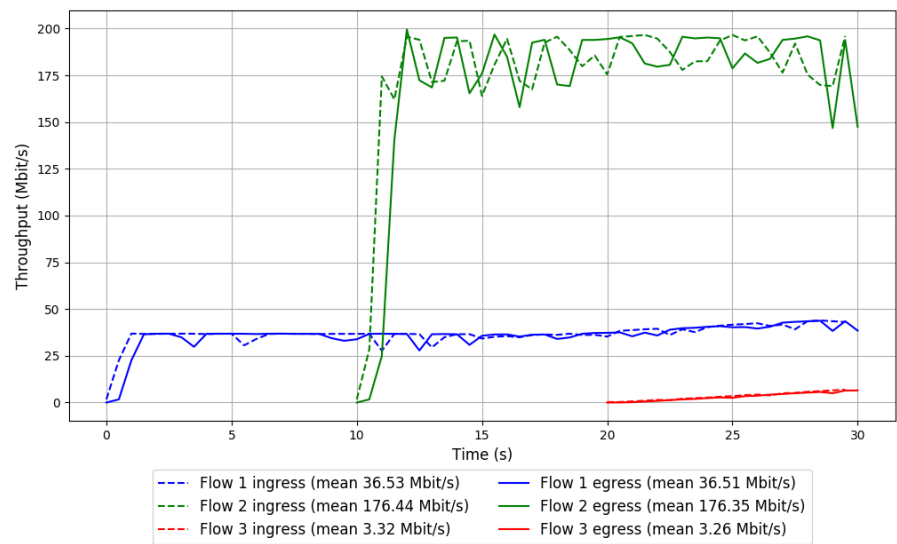


Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 00:19:10
End at: 2018-06-20 00:19:40
Local clock offset: -0.105 ms
Remote clock offset: 1.29 ms

Below is generated by plot.py at 2018-06-20 04:34:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 154.68 Mbit/s
95th percentile per-packet one-way delay: 72.912 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 36.51 Mbit/s
95th percentile per-packet one-way delay: 68.912 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 176.35 Mbit/s
95th percentile per-packet one-way delay: 73.392 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 68.347 ms
Loss rate: 3.06%

Run 6: Report of TCP Vegas — Data Link

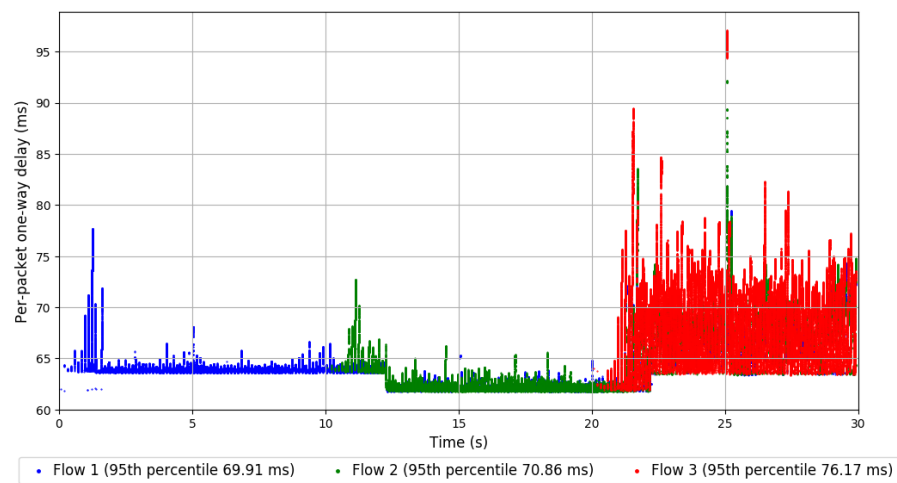
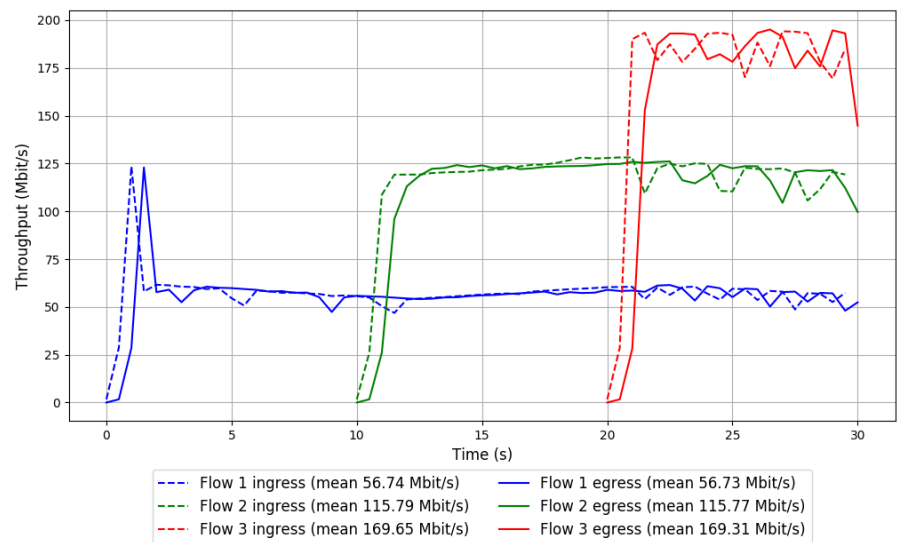


Run 7: Statistics of TCP Vegas

Start at: 2018-06-20 00:42:09
End at: 2018-06-20 00:42:39
Local clock offset: -0.088 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-06-20 04:34:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 189.31 Mbit/s
95th percentile per-packet one-way delay: 73.460 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 56.73 Mbit/s
95th percentile per-packet one-way delay: 69.908 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 115.77 Mbit/s
95th percentile per-packet one-way delay: 70.858 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 169.31 Mbit/s
95th percentile per-packet one-way delay: 76.171 ms
Loss rate: 1.44%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-20 01:05:44

End at: 2018-06-20 01:06:14

Local clock offset: -0.042 ms

Remote clock offset: 1.314 ms

Below is generated by plot.py at 2018-06-20 04:35:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.41 Mbit/s

95th percentile per-packet one-way delay: 63.907 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 63.286 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 74.08 Mbit/s

95th percentile per-packet one-way delay: 63.396 ms

Loss rate: 0.60%

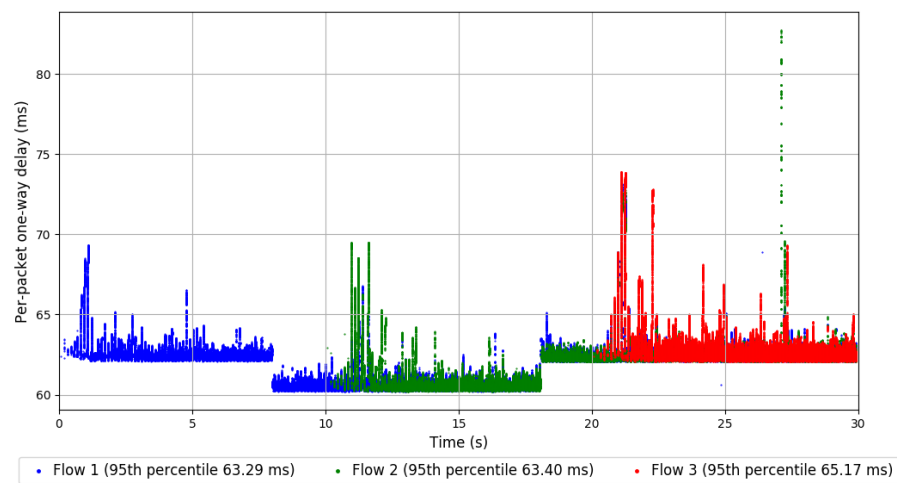
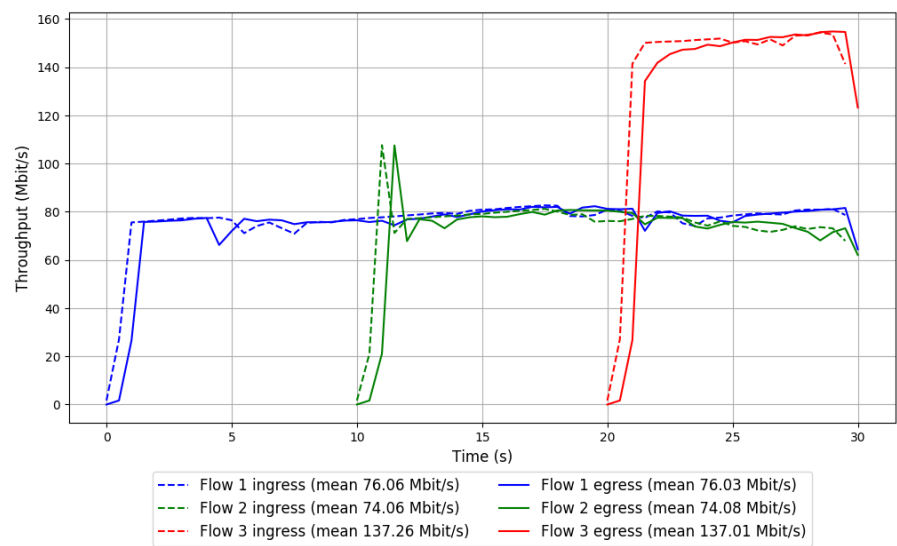
-- Flow 3:

Average throughput: 137.01 Mbit/s

95th percentile per-packet one-way delay: 65.168 ms

Loss rate: 1.43%

Run 8: Report of TCP Vegas — Data Link

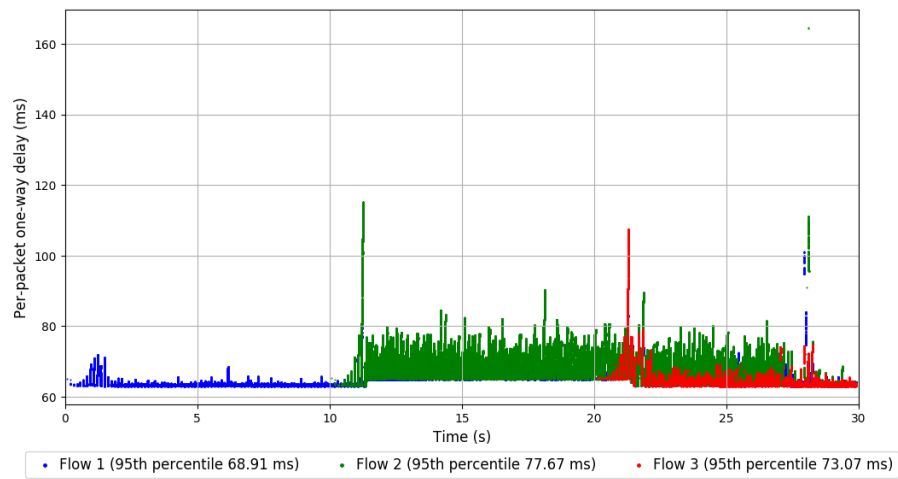
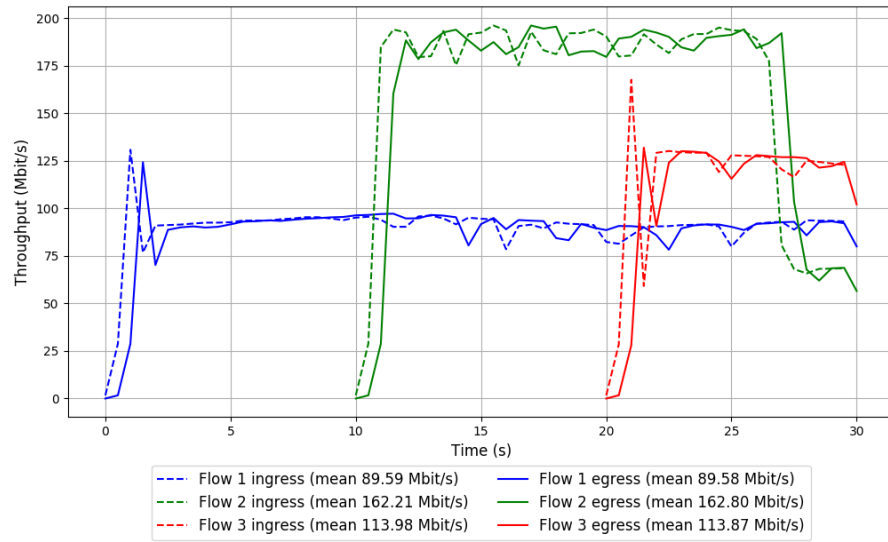


Run 9: Statistics of TCP Vegas

Start at: 2018-06-20 01:29:10
End at: 2018-06-20 01:29:40
Local clock offset: 0.002 ms
Remote clock offset: -1.368 ms

Below is generated by plot.py at 2018-06-20 04:35:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.10 Mbit/s
95th percentile per-packet one-way delay: 76.204 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 68.910 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 162.80 Mbit/s
95th percentile per-packet one-way delay: 77.675 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 113.87 Mbit/s
95th percentile per-packet one-way delay: 73.068 ms
Loss rate: 1.38%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-20 01:52:38

End at: 2018-06-20 01:53:08

Local clock offset: 0.019 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-20 04:35:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.26 Mbit/s

95th percentile per-packet one-way delay: 75.910 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 179.32 Mbit/s

95th percentile per-packet one-way delay: 76.545 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 68.926 ms

Loss rate: 0.72%

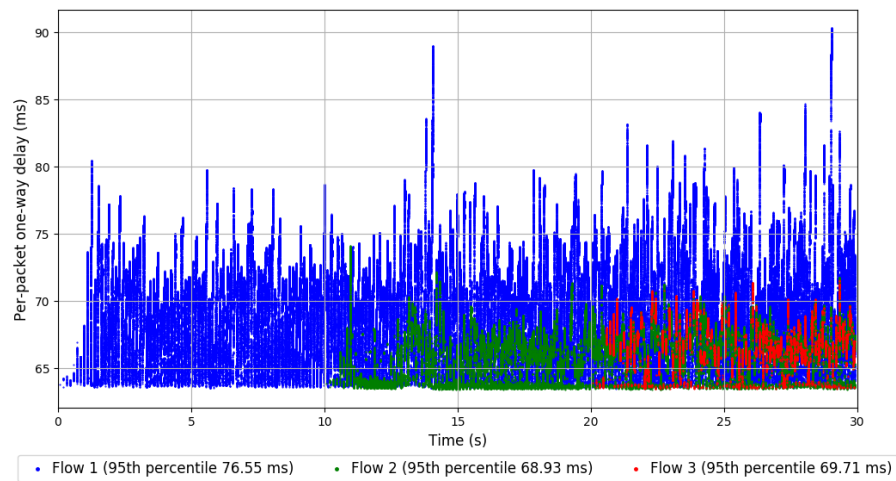
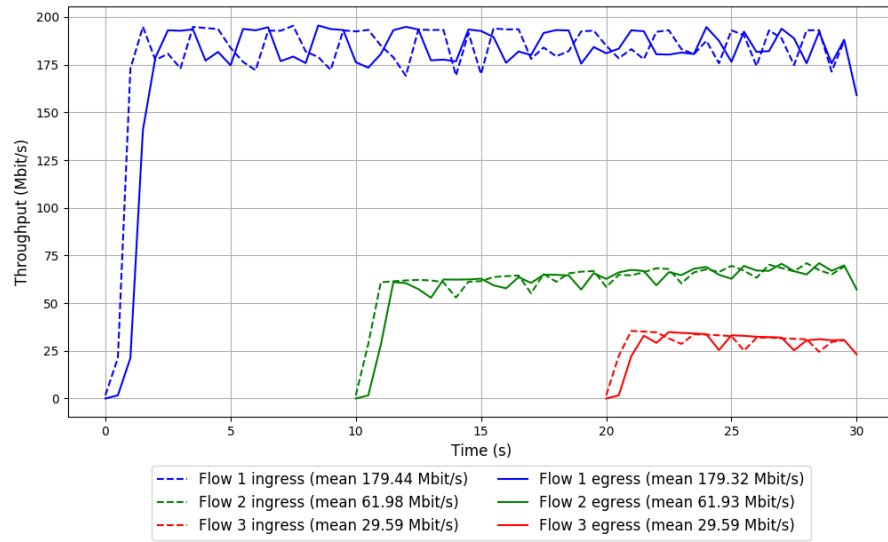
-- Flow 3:

Average throughput: 29.59 Mbit/s

95th percentile per-packet one-way delay: 69.713 ms

Loss rate: 1.31%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-19 22:29:21

End at: 2018-06-19 22:29:51

Local clock offset: 0.62 ms

Remote clock offset: 0.272 ms

Below is generated by plot.py at 2018-06-20 04:40:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.37 Mbit/s

95th percentile per-packet one-way delay: 142.250 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 224.72 Mbit/s

95th percentile per-packet one-way delay: 144.430 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 199.85 Mbit/s

95th percentile per-packet one-way delay: 136.771 ms

Loss rate: 0.62%

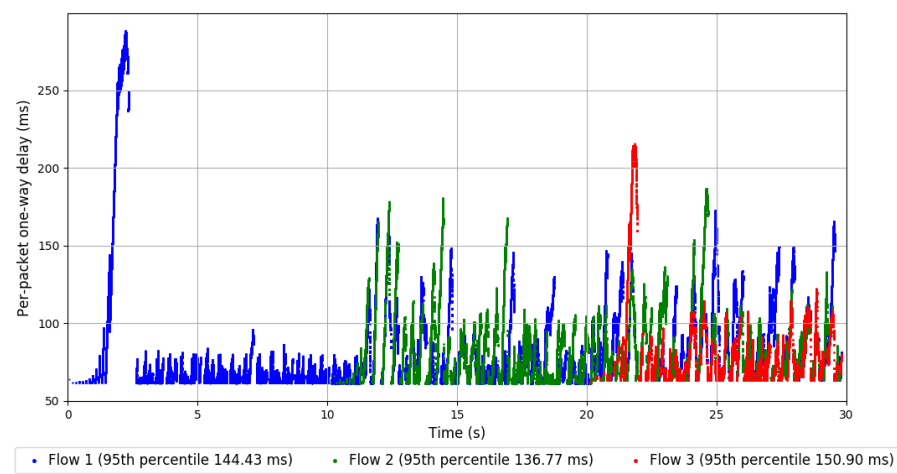
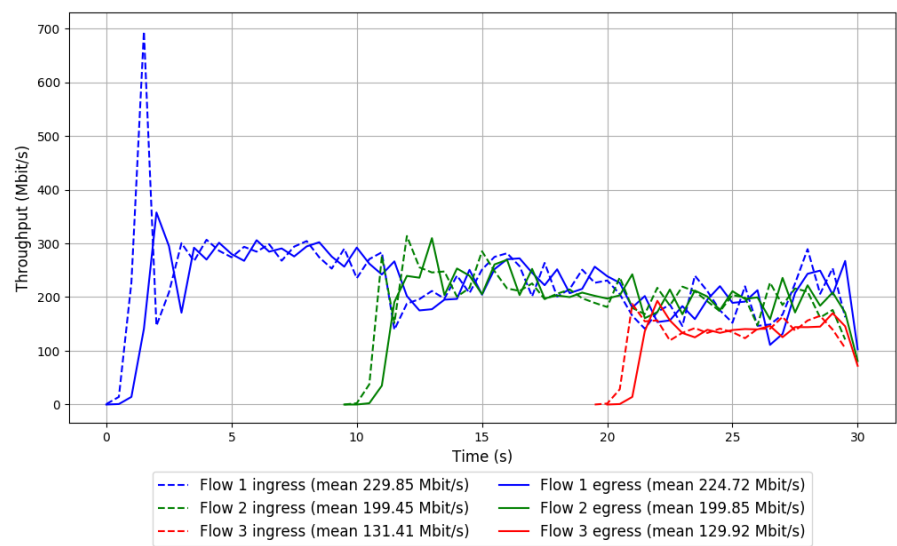
-- Flow 3:

Average throughput: 129.92 Mbit/s

95th percentile per-packet one-way delay: 150.896 ms

Loss rate: 2.37%

Run 1: Report of Verus — Data Link

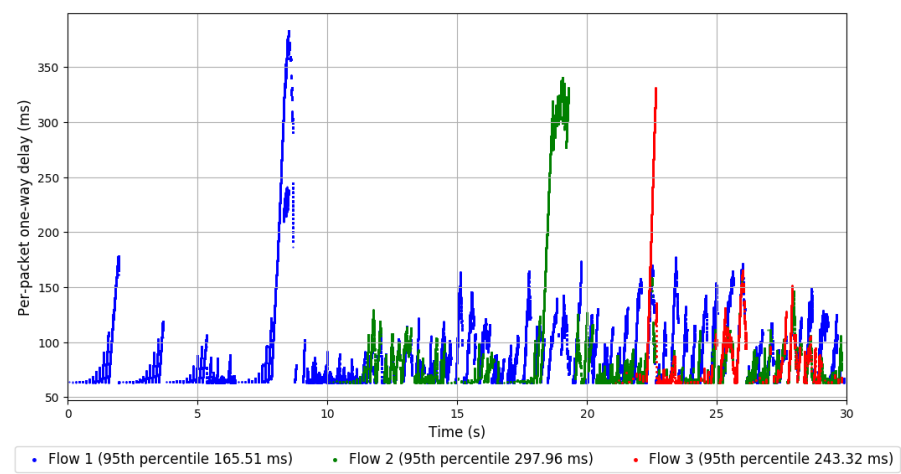
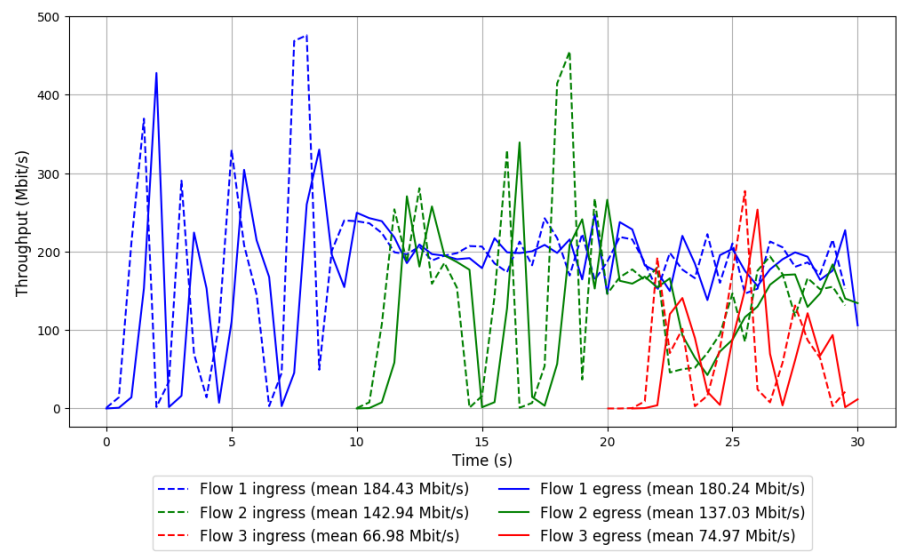


Run 2: Statistics of Verus

Start at: 2018-06-19 22:52:48
End at: 2018-06-19 22:53:18
Local clock offset: -0.146 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-20 04:40:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 292.70 Mbit/s
95th percentile per-packet one-way delay: 204.832 ms
Loss rate: 3.40%
-- Flow 1:
Average throughput: 180.24 Mbit/s
95th percentile per-packet one-way delay: 165.514 ms
Loss rate: 2.75%
-- Flow 2:
Average throughput: 137.03 Mbit/s
95th percentile per-packet one-way delay: 297.961 ms
Loss rate: 5.24%
-- Flow 3:
Average throughput: 74.97 Mbit/s
95th percentile per-packet one-way delay: 243.324 ms
Loss rate: 0.93%

Run 2: Report of Verus — Data Link

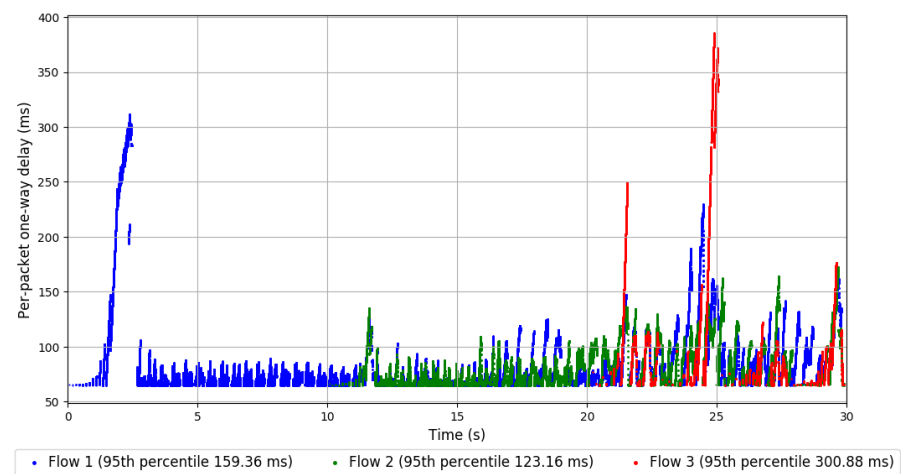
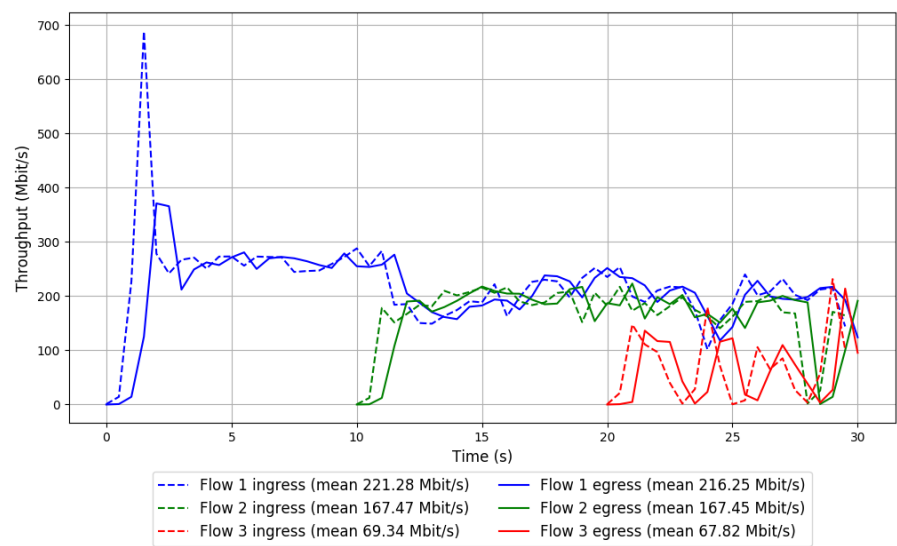


Run 3: Statistics of Verus

Start at: 2018-06-19 23:16:11
End at: 2018-06-19 23:16:41
Local clock offset: -0.149 ms
Remote clock offset: -1.309 ms

Below is generated by plot.py at 2018-06-20 04:40:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 349.09 Mbit/s
95th percentile per-packet one-way delay: 147.502 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 216.25 Mbit/s
95th percentile per-packet one-way delay: 159.356 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 167.45 Mbit/s
95th percentile per-packet one-way delay: 123.159 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 67.82 Mbit/s
95th percentile per-packet one-way delay: 300.876 ms
Loss rate: 3.83%

Run 3: Report of Verus — Data Link

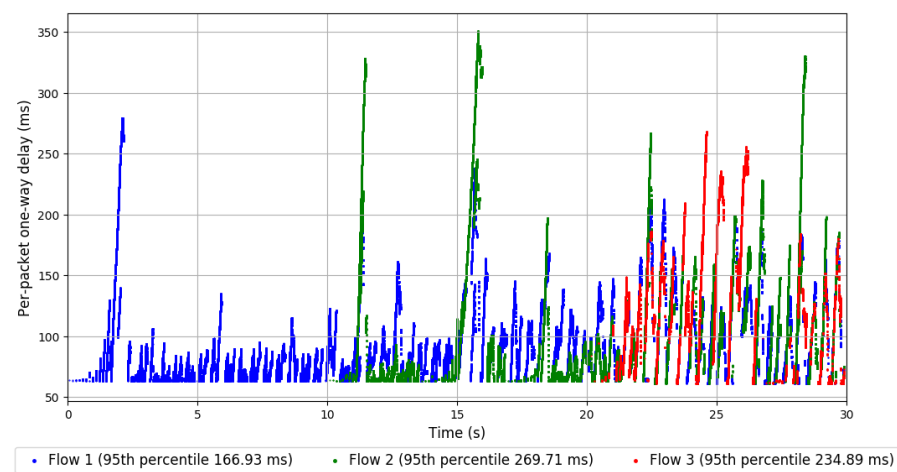
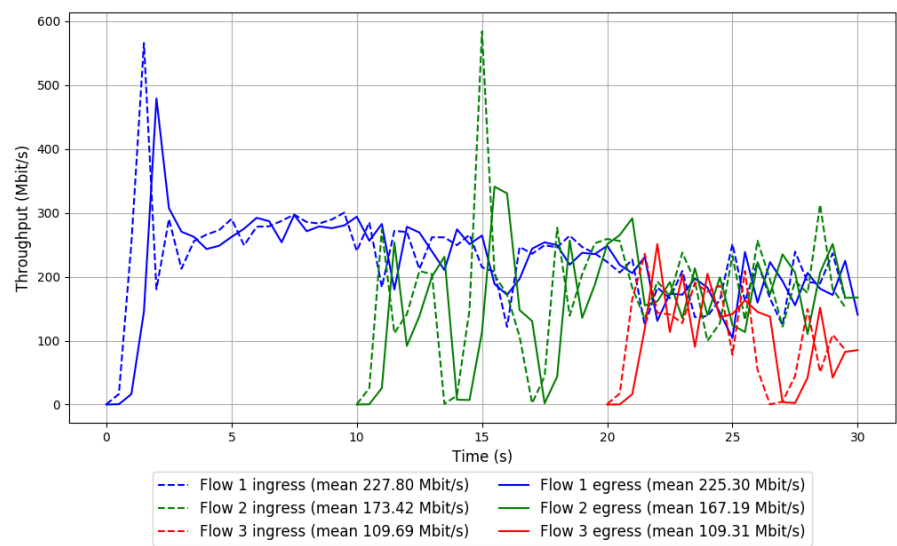


Run 4: Statistics of Verus

Start at: 2018-06-19 23:39:29
End at: 2018-06-19 23:39:59
Local clock offset: -0.1 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-20 04:41:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 372.04 Mbit/s
95th percentile per-packet one-way delay: 205.272 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 225.30 Mbit/s
95th percentile per-packet one-way delay: 166.927 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 167.19 Mbit/s
95th percentile per-packet one-way delay: 269.706 ms
Loss rate: 4.21%
-- Flow 3:
Average throughput: 109.31 Mbit/s
95th percentile per-packet one-way delay: 234.888 ms
Loss rate: 1.80%

Run 4: Report of Verus — Data Link

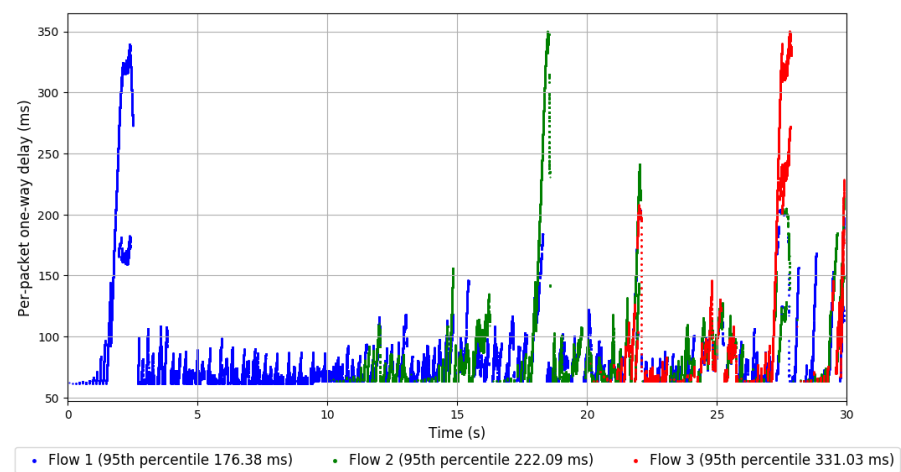
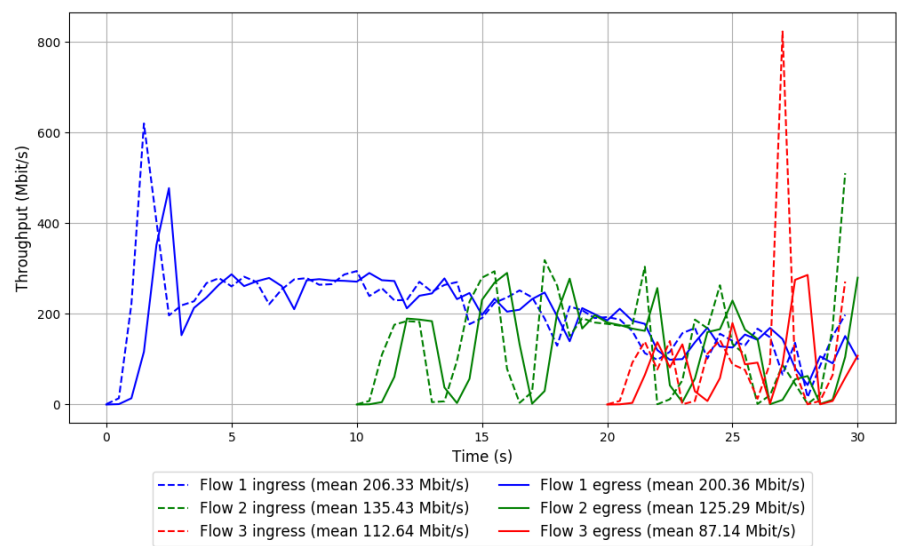


Run 5: Statistics of Verus

Start at: 2018-06-20 00:03:02
End at: 2018-06-20 00:03:32
Local clock offset: -0.176 ms
Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-20 04:41:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 312.16 Mbit/s
95th percentile per-packet one-way delay: 235.952 ms
Loss rate: 6.85%
-- Flow 1:
Average throughput: 200.36 Mbit/s
95th percentile per-packet one-way delay: 176.379 ms
Loss rate: 3.30%
-- Flow 2:
Average throughput: 125.29 Mbit/s
95th percentile per-packet one-way delay: 222.089 ms
Loss rate: 8.08%
-- Flow 3:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 331.030 ms
Loss rate: 23.57%

Run 5: Report of Verus — Data Link

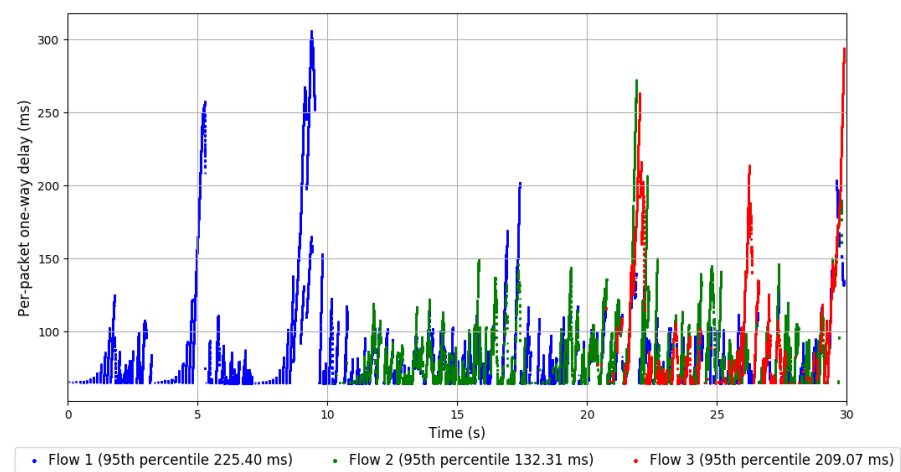
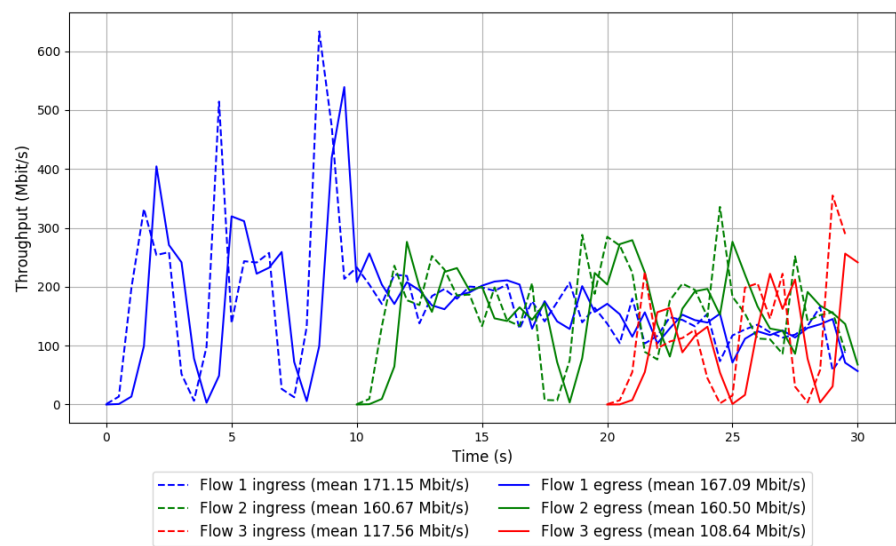


Run 6: Statistics of Verus

Start at: 2018-06-20 00:26:26
End at: 2018-06-20 00:26:56
Local clock offset: -0.021 ms
Remote clock offset: -1.409 ms

Below is generated by plot.py at 2018-06-20 04:41:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 308.86 Mbit/s
95th percentile per-packet one-way delay: 184.880 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 167.09 Mbit/s
95th percentile per-packet one-way delay: 225.397 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 160.50 Mbit/s
95th percentile per-packet one-way delay: 132.308 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 108.64 Mbit/s
95th percentile per-packet one-way delay: 209.073 ms
Loss rate: 7.58%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-20 00:49:47

End at: 2018-06-20 00:50:17

Local clock offset: 0.03 ms

Remote clock offset: 1.352 ms

Below is generated by plot.py at 2018-06-20 04:41:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.11 Mbit/s

95th percentile per-packet one-way delay: 220.349 ms

Loss rate: 4.12%

-- Flow 1:

Average throughput: 163.01 Mbit/s

95th percentile per-packet one-way delay: 220.802 ms

Loss rate: 3.99%

-- Flow 2:

Average throughput: 163.91 Mbit/s

95th percentile per-packet one-way delay: 186.203 ms

Loss rate: 2.08%

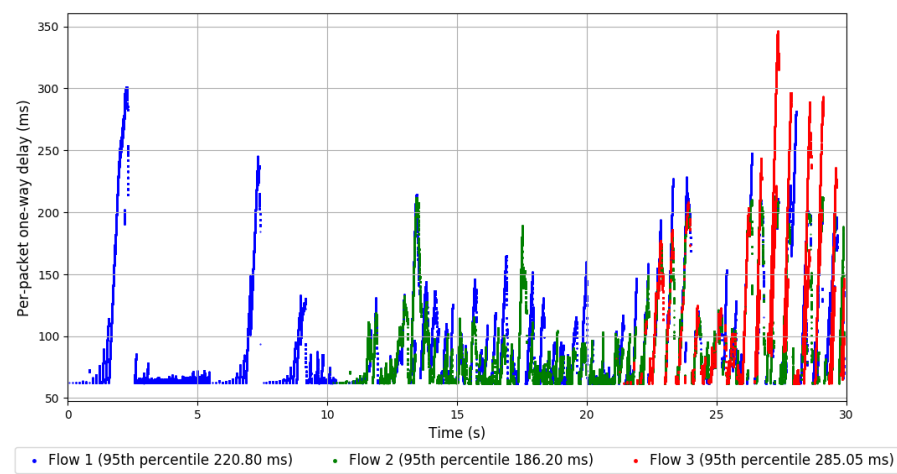
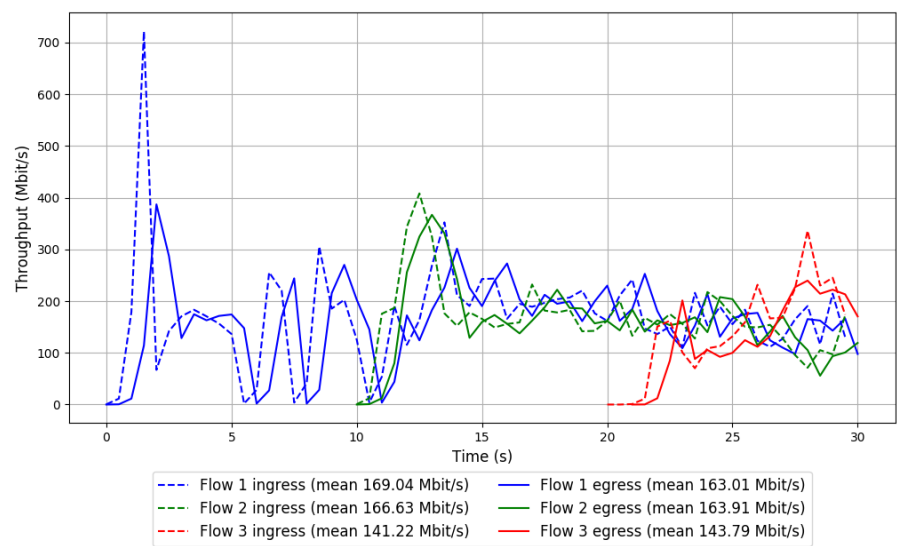
-- Flow 3:

Average throughput: 143.79 Mbit/s

95th percentile per-packet one-way delay: 285.053 ms

Loss rate: 9.47%

Run 7: Report of Verus — Data Link

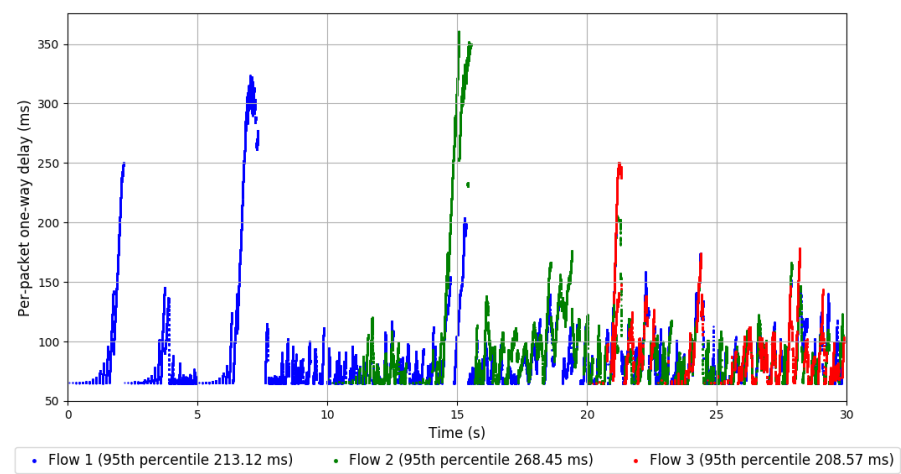
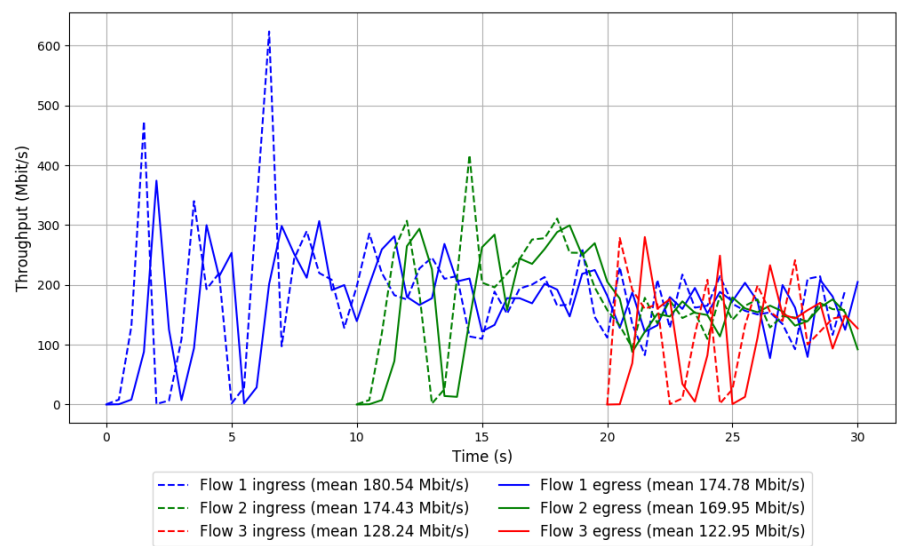


Run 8: Statistics of Verus

Start at: 2018-06-20 01:13:08
End at: 2018-06-20 01:13:38
Local clock offset: -0.067 ms
Remote clock offset: -1.307 ms

Below is generated by plot.py at 2018-06-20 04:42:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.06 Mbit/s
95th percentile per-packet one-way delay: 231.841 ms
Loss rate: 3.48%
-- Flow 1:
Average throughput: 174.78 Mbit/s
95th percentile per-packet one-way delay: 213.121 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 169.95 Mbit/s
95th percentile per-packet one-way delay: 268.452 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 122.95 Mbit/s
95th percentile per-packet one-way delay: 208.567 ms
Loss rate: 5.36%

Run 8: Report of Verus — Data Link

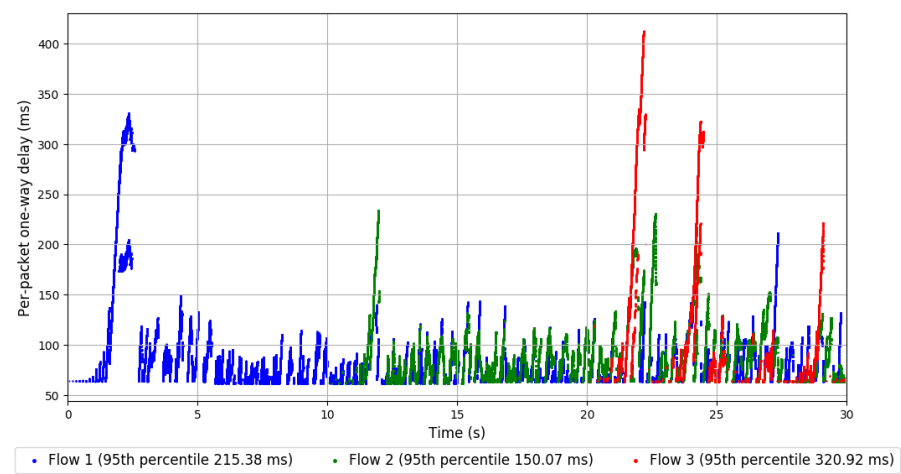
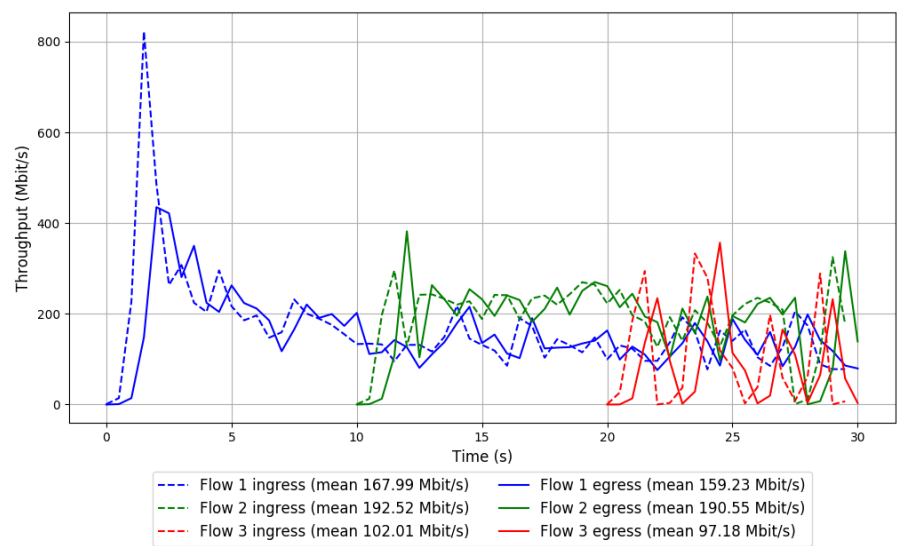


Run 9: Statistics of Verus

Start at: 2018-06-20 01:36:36
End at: 2018-06-20 01:37:06
Local clock offset: 0.027 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-20 04:44:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 317.08 Mbit/s
95th percentile per-packet one-way delay: 208.613 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 159.23 Mbit/s
95th percentile per-packet one-way delay: 215.376 ms
Loss rate: 4.99%
-- Flow 2:
Average throughput: 190.55 Mbit/s
95th percentile per-packet one-way delay: 150.066 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 320.918 ms
Loss rate: 5.95%

Run 9: Report of Verus — Data Link

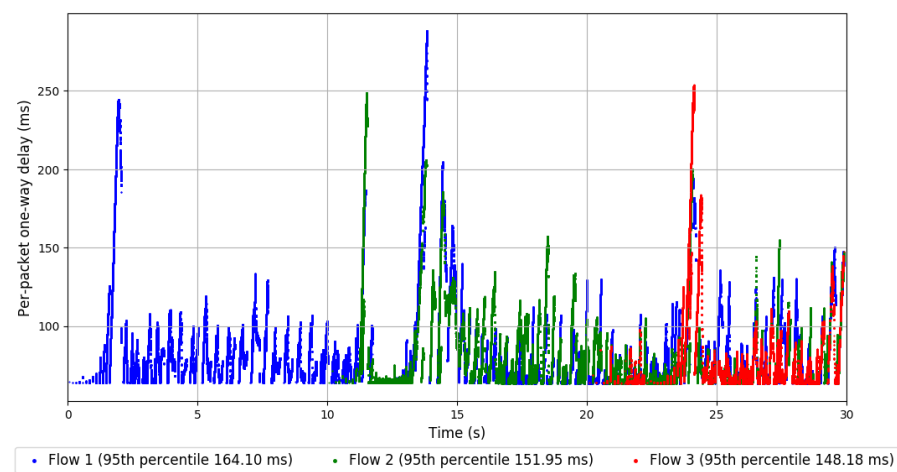
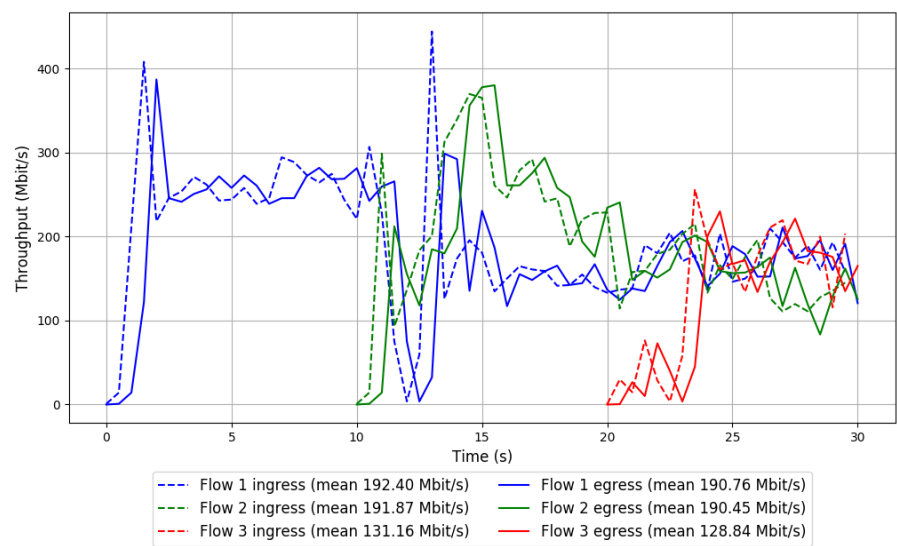


Run 10: Statistics of Verus

Start at: 2018-06-20 02:00:15
End at: 2018-06-20 02:00:45
Local clock offset: -0.029 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-06-20 04:46:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.61 Mbit/s
95th percentile per-packet one-way delay: 158.102 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 190.76 Mbit/s
95th percentile per-packet one-way delay: 164.102 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 190.45 Mbit/s
95th percentile per-packet one-way delay: 151.951 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 128.84 Mbit/s
95th percentile per-packet one-way delay: 148.178 ms
Loss rate: 2.57%

Run 10: Report of Verus — Data Link

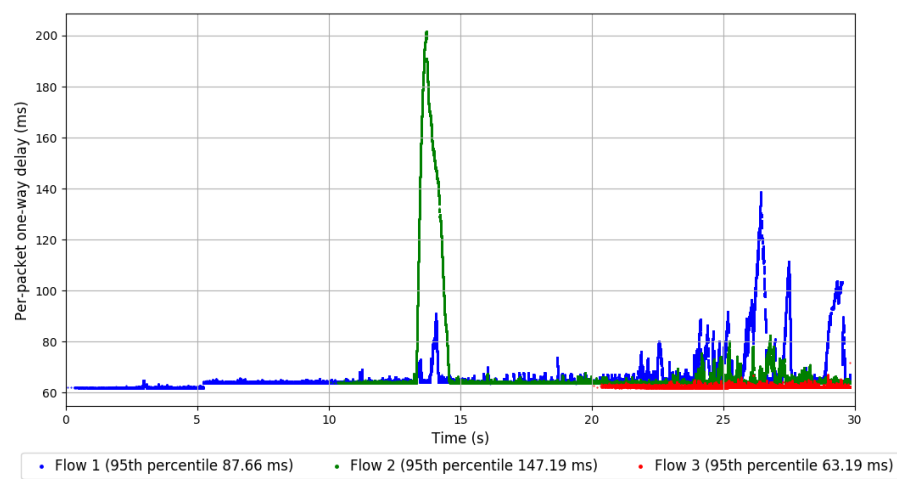
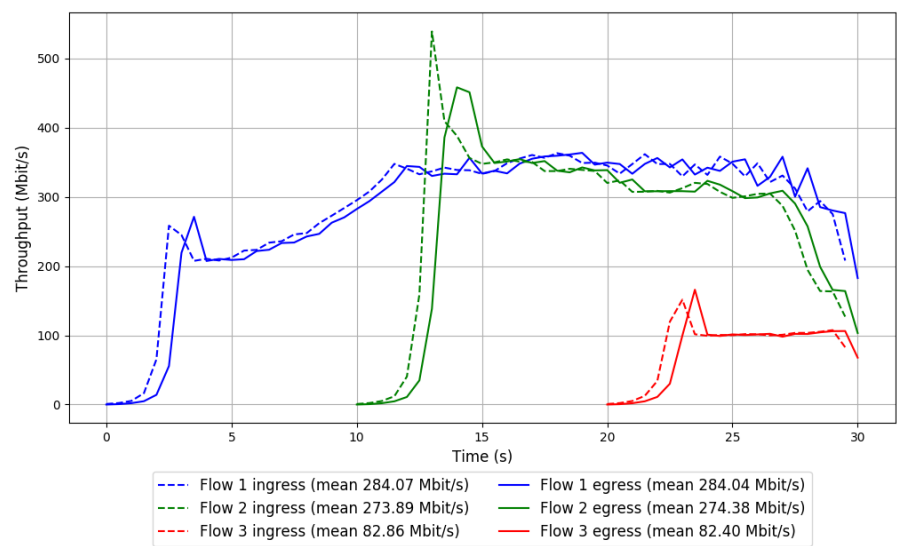


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 22:27:36
End at: 2018-06-19 22:28:06
Local clock offset: 0.648 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-06-20 04:51:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 492.94 Mbit/s
95th percentile per-packet one-way delay: 93.807 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 284.04 Mbit/s
95th percentile per-packet one-way delay: 87.660 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 274.38 Mbit/s
95th percentile per-packet one-way delay: 147.185 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 82.40 Mbit/s
95th percentile per-packet one-way delay: 63.189 ms
Loss rate: 1.74%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

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

End at: 2018-06-19 22:51:32

Local clock offset: -0.118 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-06-20 04:51:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 502.44 Mbit/s

95th percentile per-packet one-way delay: 216.526 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 275.89 Mbit/s

95th percentile per-packet one-way delay: 166.478 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 262.10 Mbit/s

95th percentile per-packet one-way delay: 255.319 ms

Loss rate: 3.37%

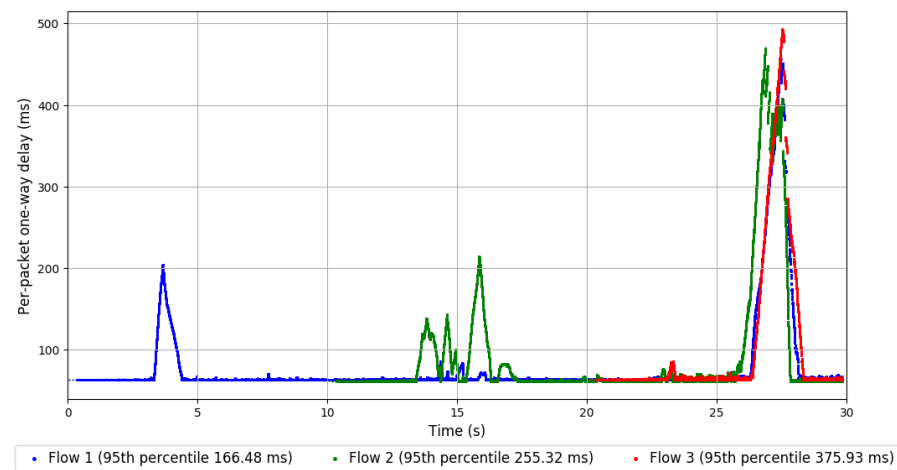
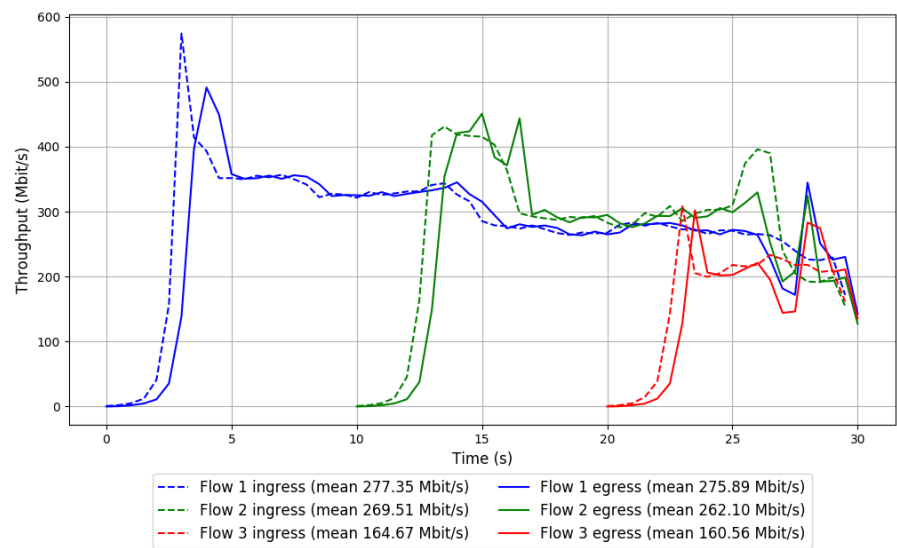
-- Flow 3:

Average throughput: 160.56 Mbit/s

95th percentile per-packet one-way delay: 375.929 ms

Loss rate: 3.76%

Run 2: Report of PCC-Vivace — Data Link

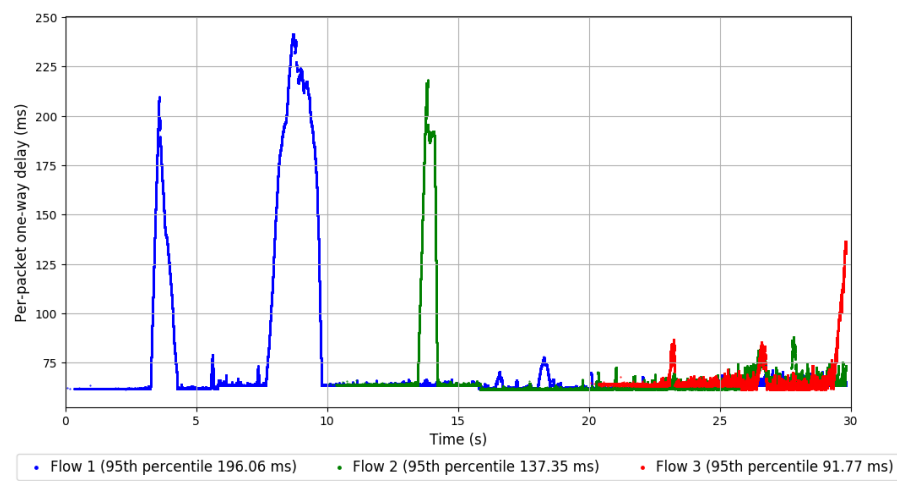
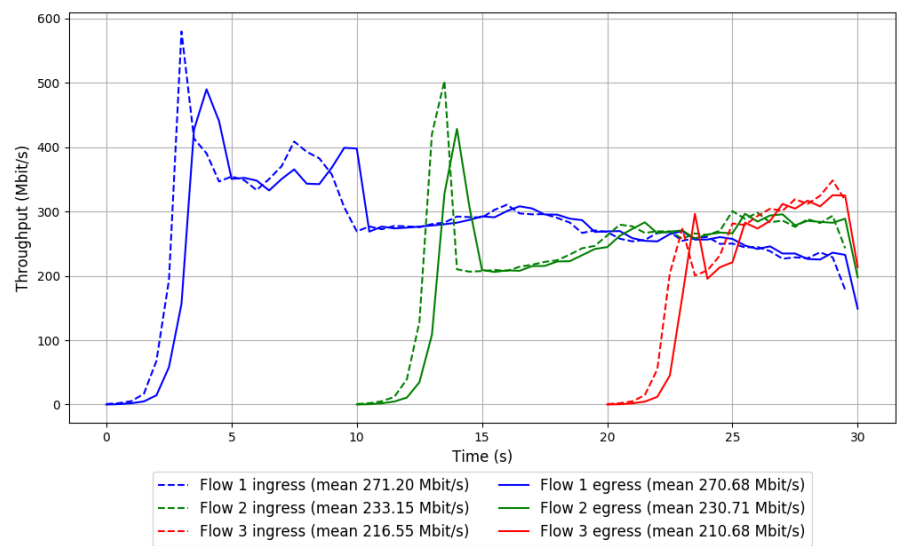


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 23:14:26
End at: 2018-06-19 23:14:56
Local clock offset: -0.121 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-20 04:51:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 492.69 Mbit/s
95th percentile per-packet one-way delay: 181.852 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 270.68 Mbit/s
95th percentile per-packet one-way delay: 196.060 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 230.71 Mbit/s
95th percentile per-packet one-way delay: 137.355 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 210.68 Mbit/s
95th percentile per-packet one-way delay: 91.772 ms
Loss rate: 3.98%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 23:37:44

End at: 2018-06-19 23:38:14

Local clock offset: -0.148 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-06-20 04:51:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 485.26 Mbit/s

95th percentile per-packet one-way delay: 154.807 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 315.22 Mbit/s

95th percentile per-packet one-way delay: 186.482 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 228.20 Mbit/s

95th percentile per-packet one-way delay: 64.954 ms

Loss rate: 0.86%

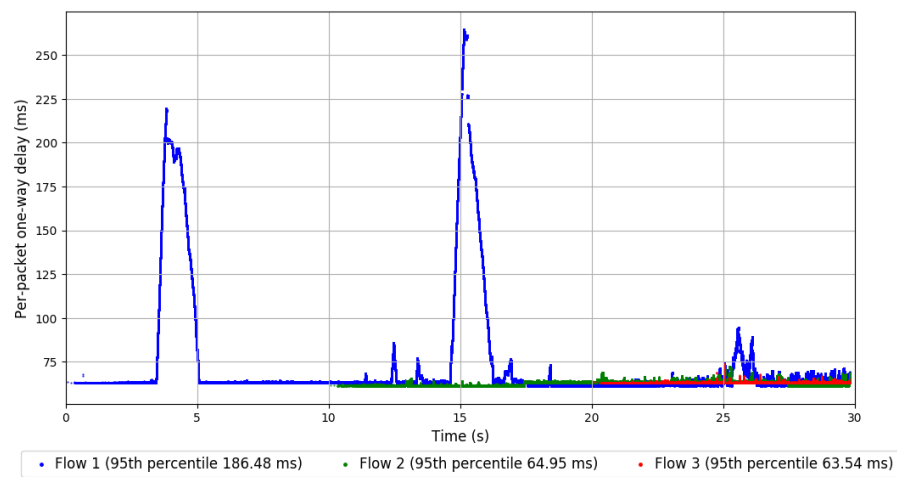
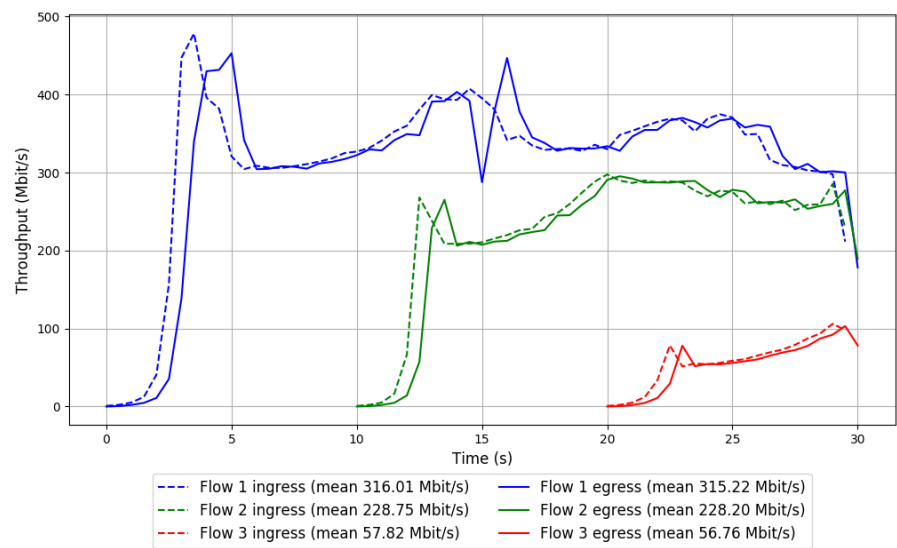
-- Flow 3:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 63.536 ms

Loss rate: 3.08%

Run 4: Report of PCC-Vivace — Data Link

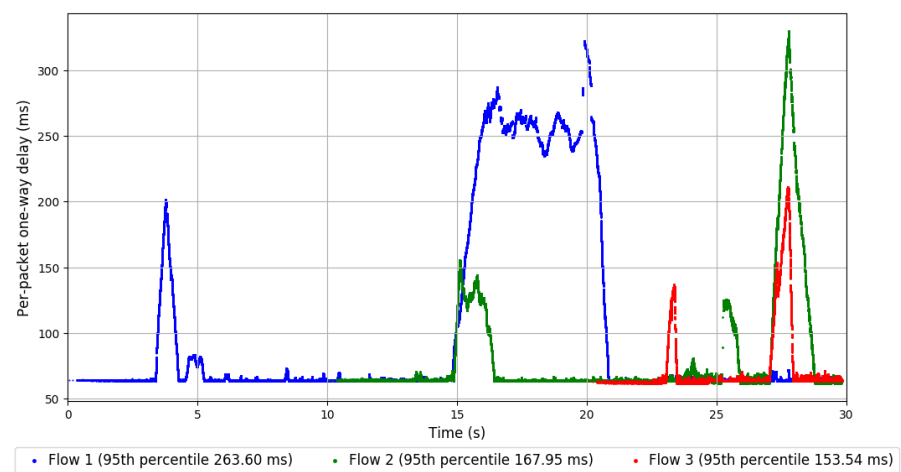
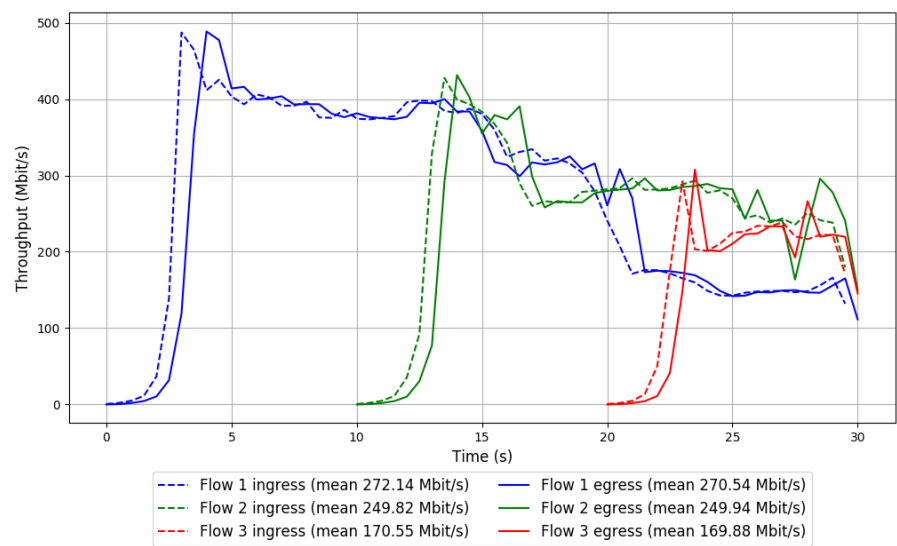


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 00:01:17
End at: 2018-06-20 00:01:47
Local clock offset: -0.078 ms
Remote clock offset: -0.271 ms

Below is generated by plot.py at 2018-06-20 04:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 491.97 Mbit/s
95th percentile per-packet one-way delay: 259.169 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 270.54 Mbit/s
95th percentile per-packet one-way delay: 263.602 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 249.94 Mbit/s
95th percentile per-packet one-way delay: 167.951 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 169.88 Mbit/s
95th percentile per-packet one-way delay: 153.545 ms
Loss rate: 1.65%

Run 5: Report of PCC-Vivace — Data Link

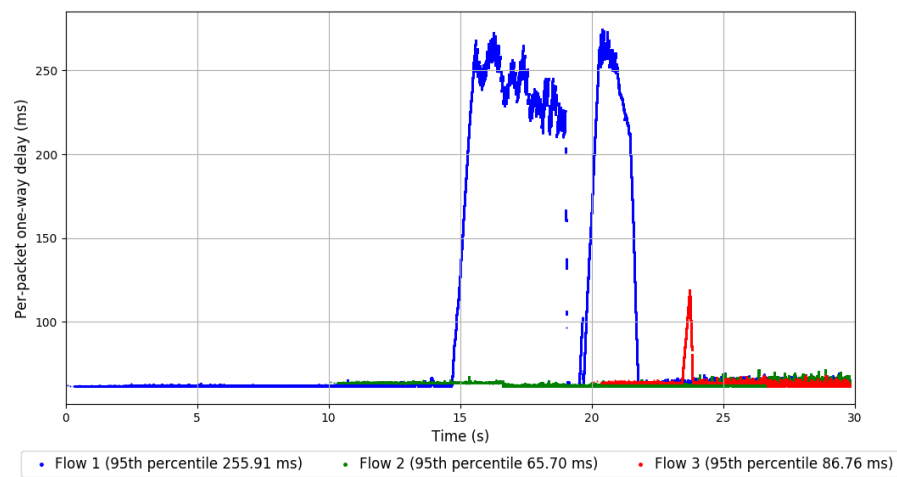
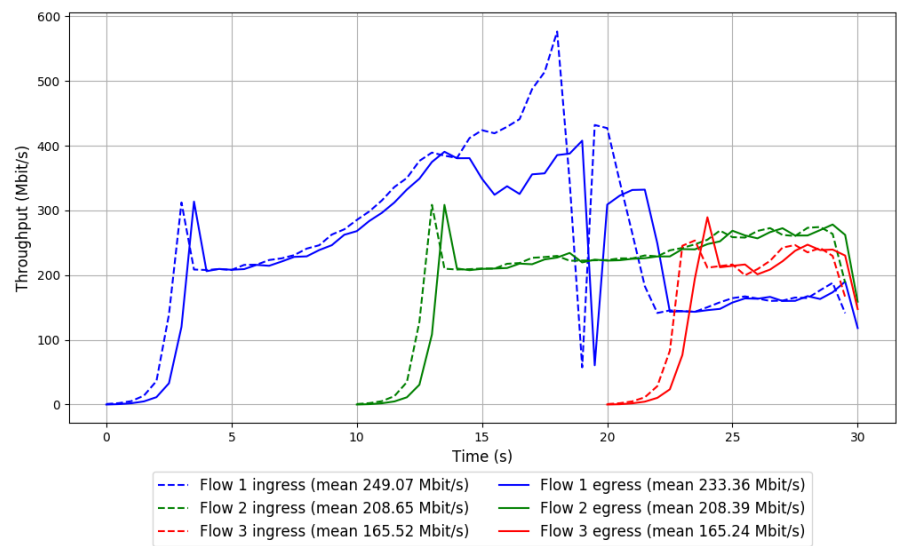


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 00:24:45
End at: 2018-06-20 00:25:15
Local clock offset: -0.058 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-20 04:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 425.70 Mbit/s
95th percentile per-packet one-way delay: 248.141 ms
Loss rate: 4.20%
-- Flow 1:
Average throughput: 233.36 Mbit/s
95th percentile per-packet one-way delay: 255.913 ms
Loss rate: 6.70%
-- Flow 2:
Average throughput: 208.39 Mbit/s
95th percentile per-packet one-way delay: 65.705 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 165.24 Mbit/s
95th percentile per-packet one-way delay: 86.763 ms
Loss rate: 1.47%

Run 6: Report of PCC-Vivace — Data Link

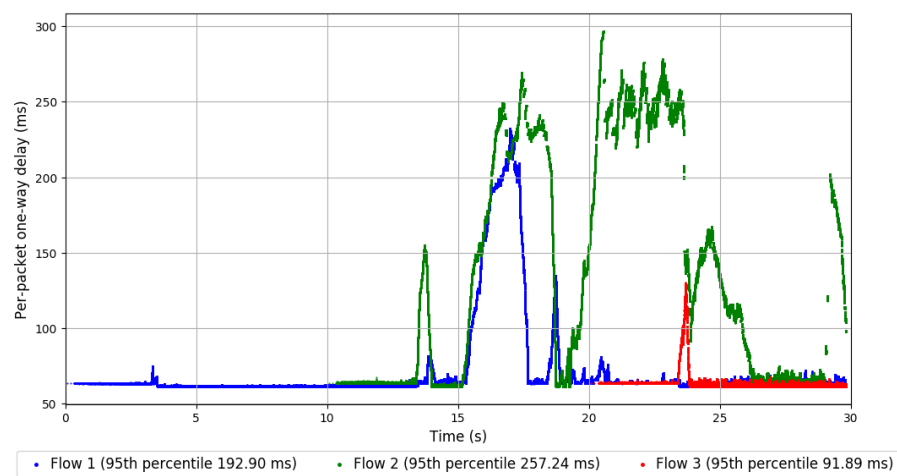
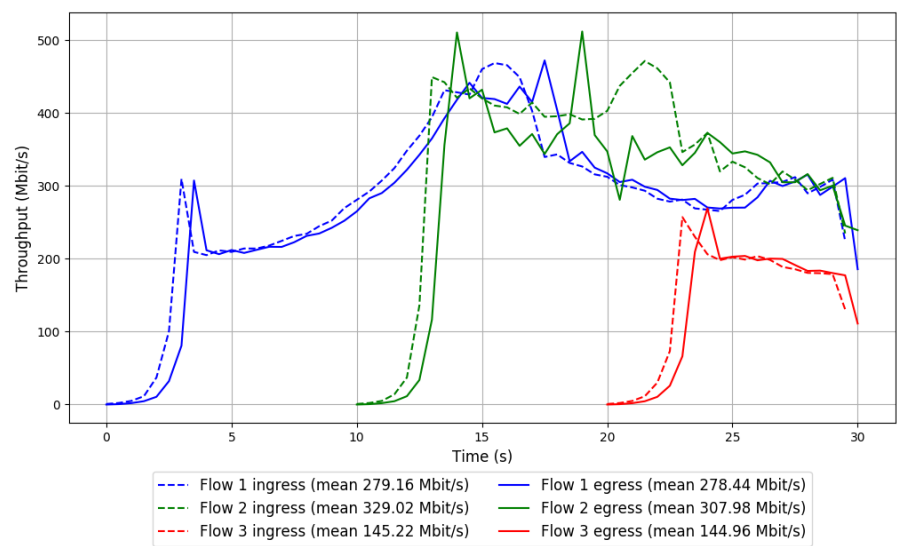


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-20 00:47:58
End at: 2018-06-20 00:48:28
Local clock offset: -0.034 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-20 04:54:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 530.29 Mbit/s
95th percentile per-packet one-way delay: 244.879 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 278.44 Mbit/s
95th percentile per-packet one-way delay: 192.900 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 307.98 Mbit/s
95th percentile per-packet one-way delay: 257.238 ms
Loss rate: 7.00%
-- Flow 3:
Average throughput: 144.96 Mbit/s
95th percentile per-packet one-way delay: 91.887 ms
Loss rate: 1.47%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-20 01:11:26

End at: 2018-06-20 01:11:56

Local clock offset: -0.058 ms

Remote clock offset: 1.15 ms

Below is generated by plot.py at 2018-06-20 04:54:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 434.77 Mbit/s

95th percentile per-packet one-way delay: 163.144 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 208.05 Mbit/s

95th percentile per-packet one-way delay: 70.271 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 216.69 Mbit/s

95th percentile per-packet one-way delay: 158.037 ms

Loss rate: 0.34%

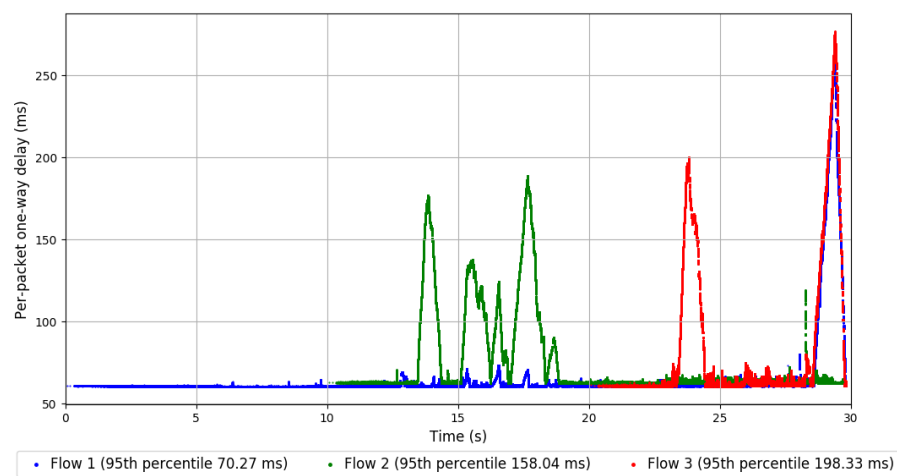
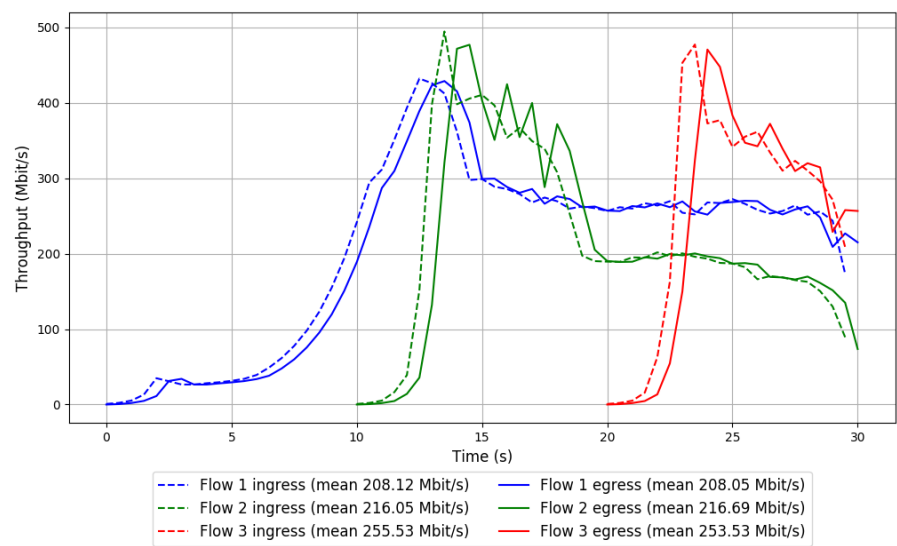
-- Flow 3:

Average throughput: 253.53 Mbit/s

95th percentile per-packet one-way delay: 198.332 ms

Loss rate: 2.03%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-20 01:34:57

End at: 2018-06-20 01:35:27

Local clock offset: 0.028 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2018-06-20 04:54:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.08 Mbit/s

95th percentile per-packet one-way delay: 100.723 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 248.49 Mbit/s

95th percentile per-packet one-way delay: 163.096 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 200.19 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.36%

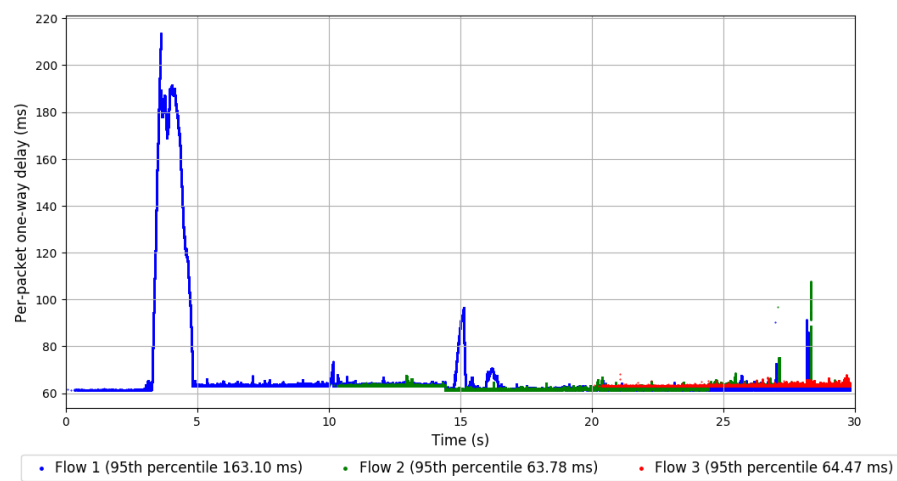
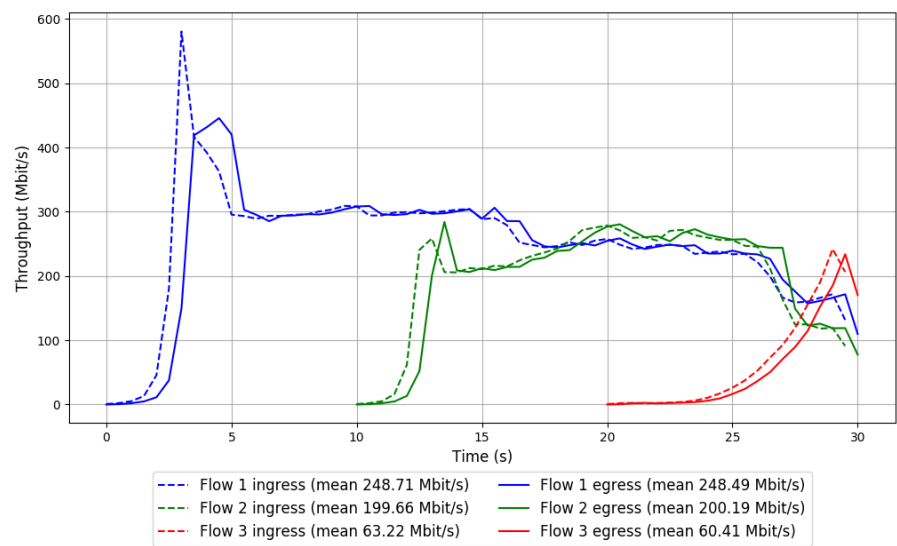
-- Flow 3:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 64.473 ms

Loss rate: 5.66%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-20 01:58:27

End at: 2018-06-20 01:58:57

Local clock offset: 0.005 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2018-06-20 04:54:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.65 Mbit/s

95th percentile per-packet one-way delay: 189.034 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 279.85 Mbit/s

95th percentile per-packet one-way delay: 180.460 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 267.58 Mbit/s

95th percentile per-packet one-way delay: 220.113 ms

Loss rate: 0.74%

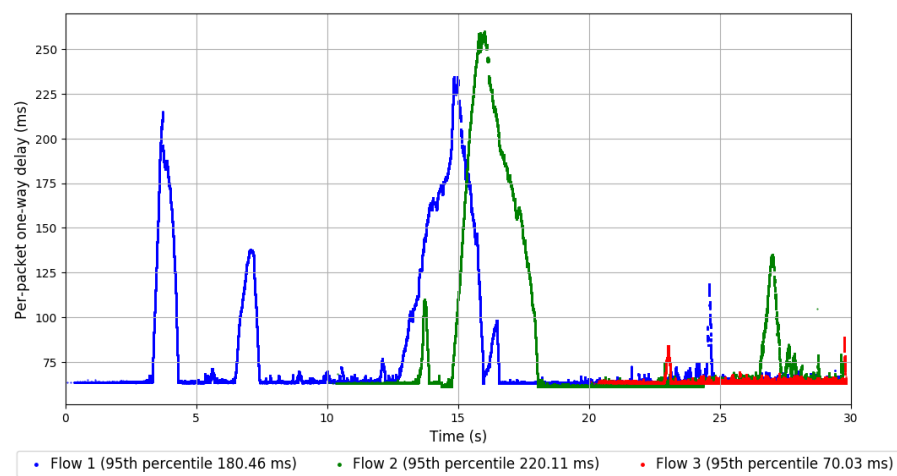
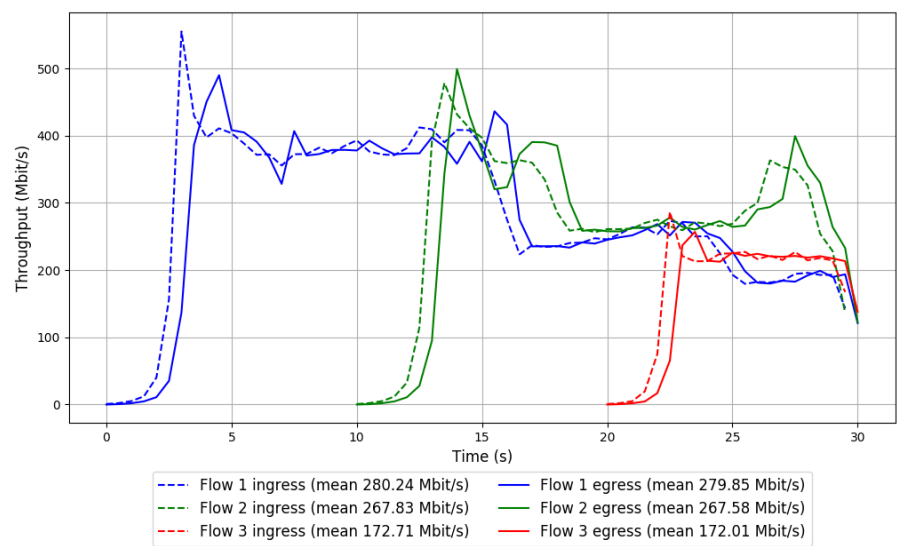
-- Flow 3:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 70.029 ms

Loss rate: 1.66%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-19 22:18:07

End at: 2018-06-19 22:18:37

Local clock offset: 0.586 ms

Remote clock offset: 1.384 ms

Below is generated by plot.py at 2018-06-20 04:54:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 62.409 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 60.927 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 62.470 ms

Loss rate: 1.26%

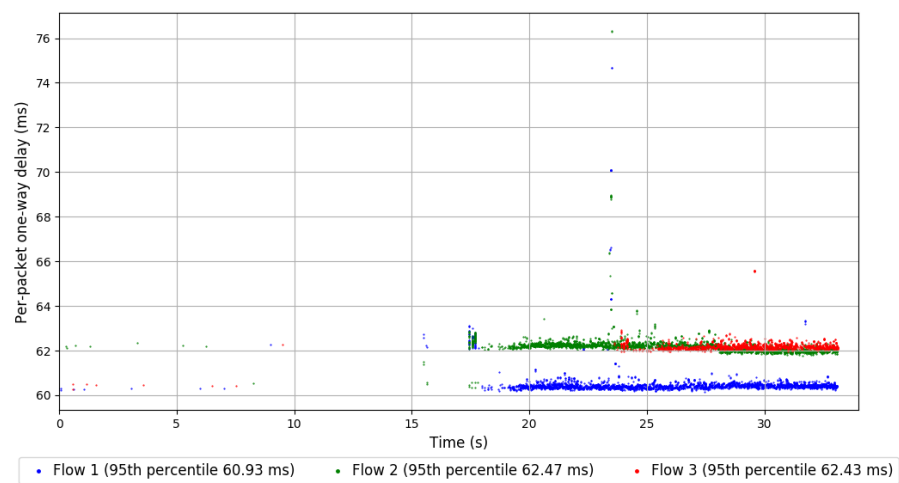
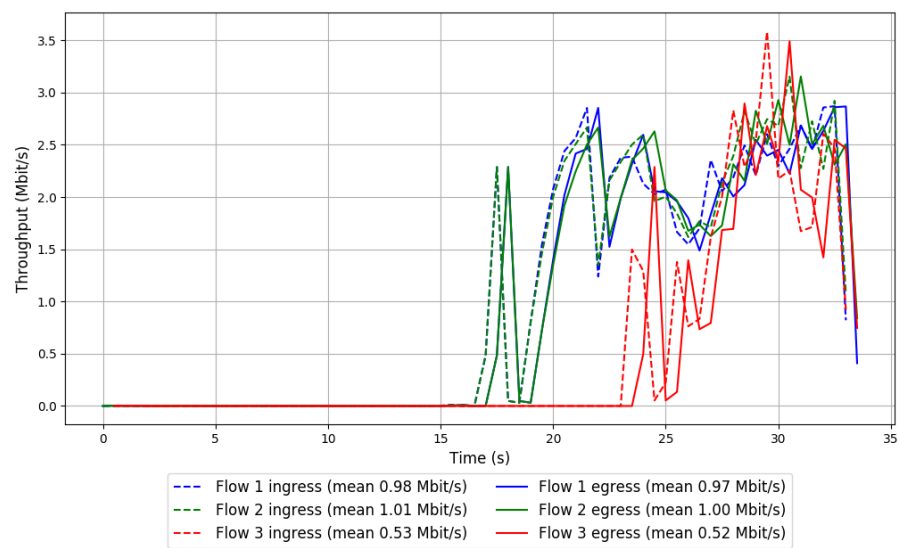
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 62.428 ms

Loss rate: 1.66%

Run 1: Report of WebRTC media — Data Link

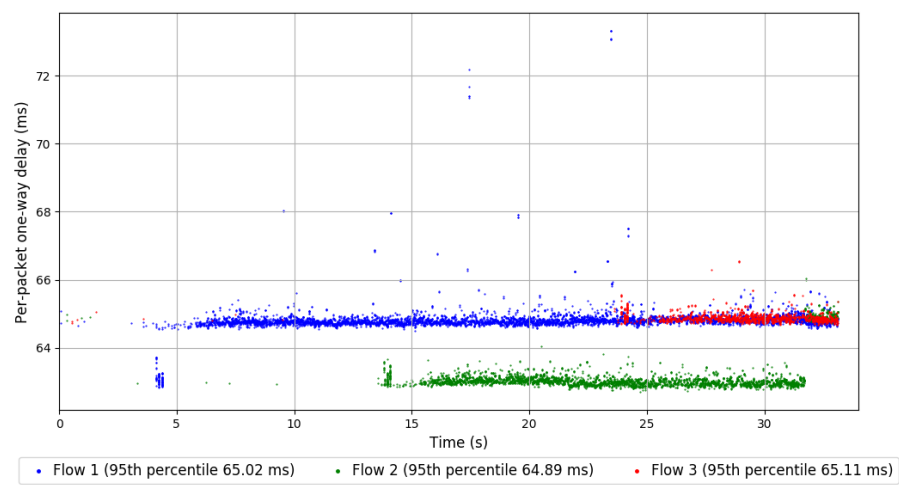
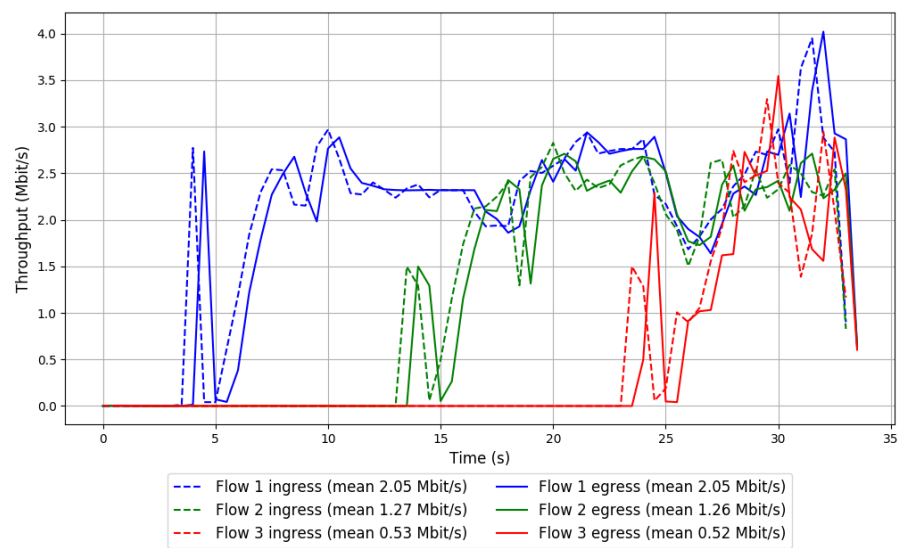


Run 2: Statistics of WebRTC media

Start at: 2018-06-19 22:41:33
End at: 2018-06-19 22:42:03
Local clock offset: 0.031 ms
Remote clock offset: -1.232 ms

Below is generated by plot.py at 2018-06-20 04:54:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 64.999 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 65.015 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 64.887 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 65.108 ms
Loss rate: 2.13%

Run 2: Report of WebRTC media — Data Link

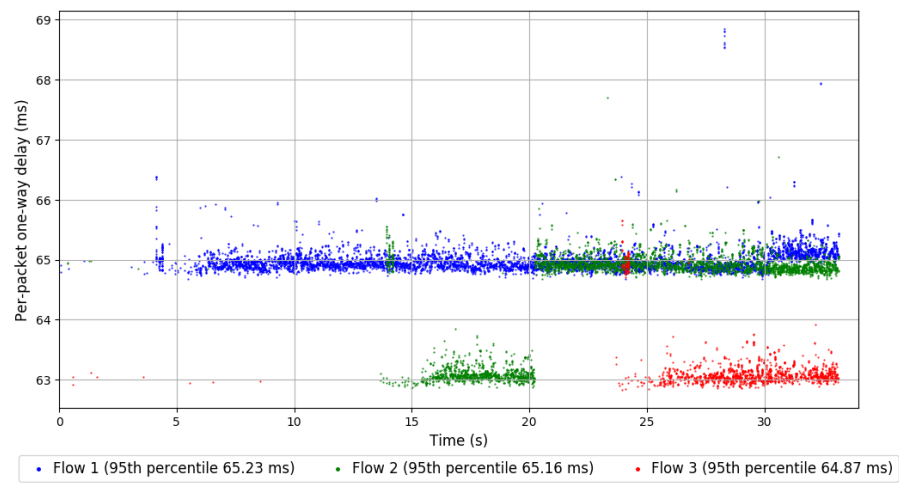
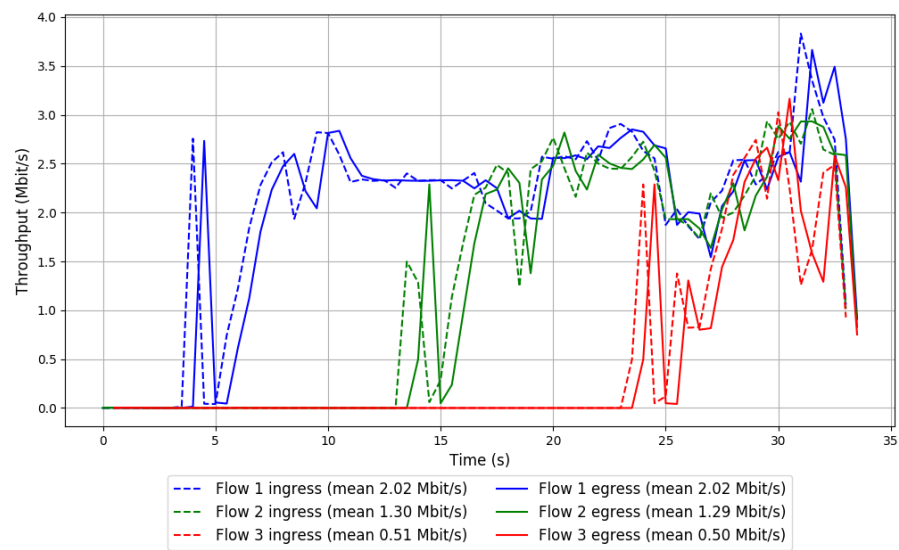


Run 3: Statistics of WebRTC media

Start at: 2018-06-19 23:04:55
End at: 2018-06-19 23:05:25
Local clock offset: -0.218 ms
Remote clock offset: -1.282 ms

Below is generated by plot.py at 2018-06-20 04:54:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 65.194 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 65.233 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 65.158 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 64.869 ms
Loss rate: 1.74%

Run 3: Report of WebRTC media — Data Link

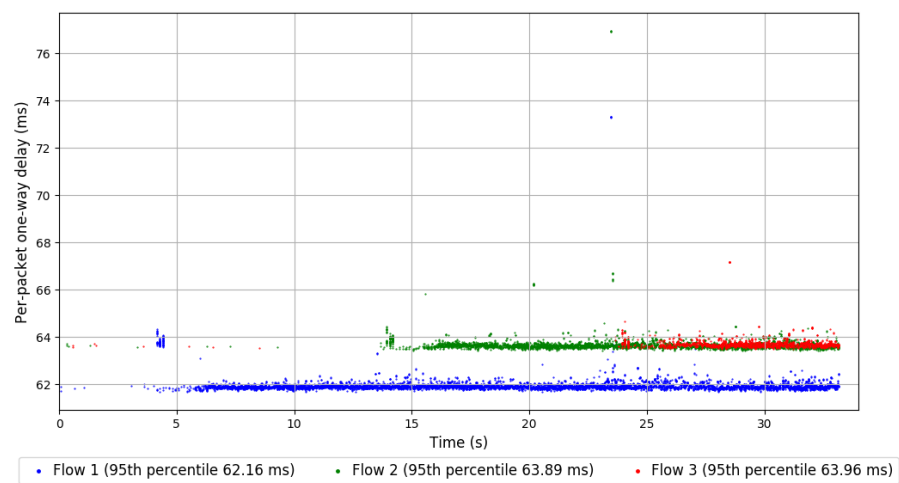
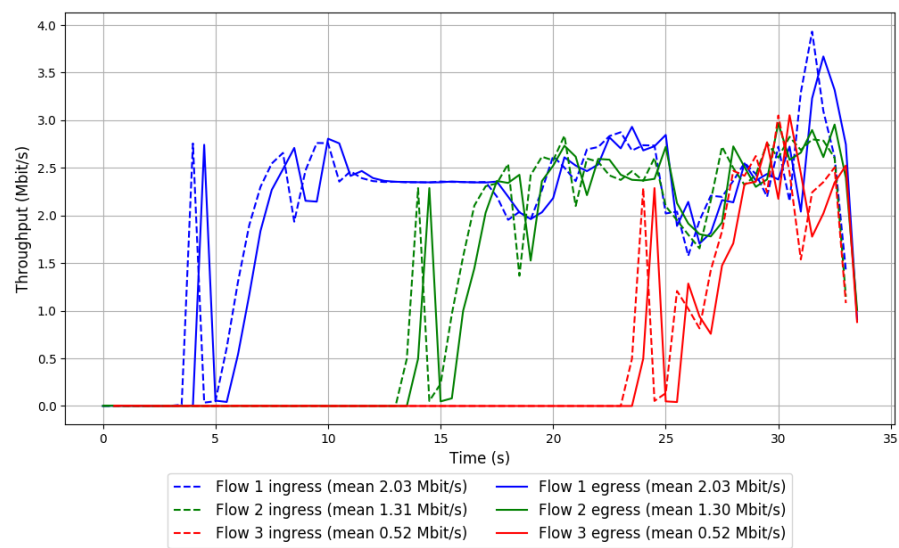


Run 4: Statistics of WebRTC media

Start at: 2018-06-19 23:28:09
End at: 2018-06-19 23:28:39
Local clock offset: -0.094 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-06-20 04:54:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 63.815 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 62.162 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 63.892 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 63.963 ms
Loss rate: 1.55%

Run 4: Report of WebRTC media — Data Link

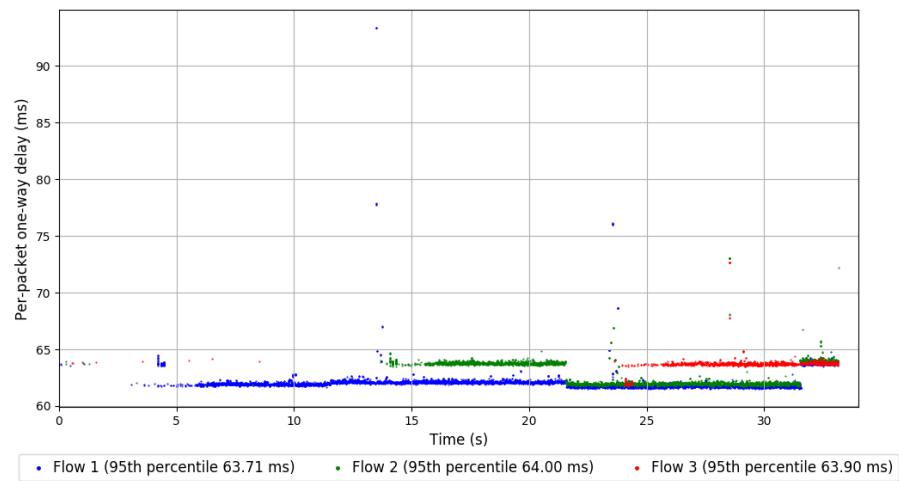
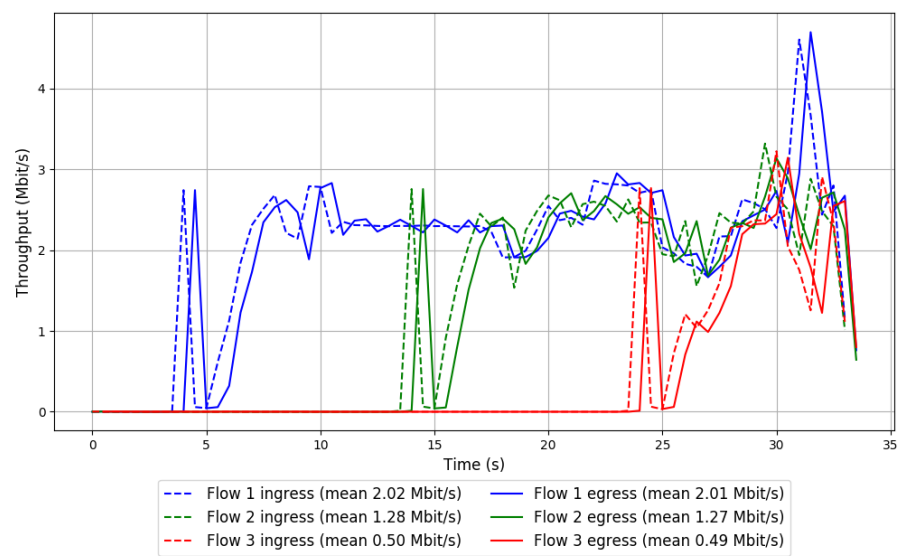


Run 5: Statistics of WebRTC media

Start at: 2018-06-19 23:51:43
End at: 2018-06-19 23:52:13
Local clock offset: -0.125 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-06-20 04:54:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 63.901 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 64.003 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 63.898 ms
Loss rate: 1.79%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-20 00:15:23

End at: 2018-06-20 00:15:53

Local clock offset: -0.114 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-06-20 04:54:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 63.674 ms

Loss rate: 0.95%

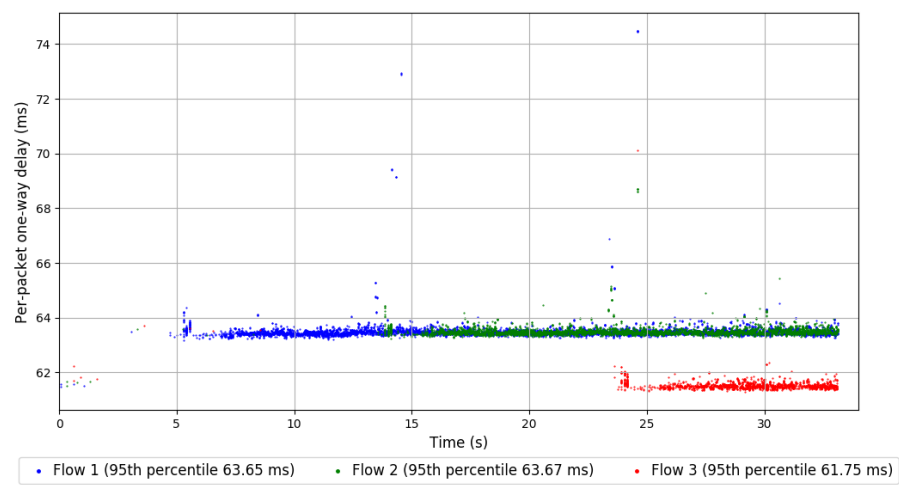
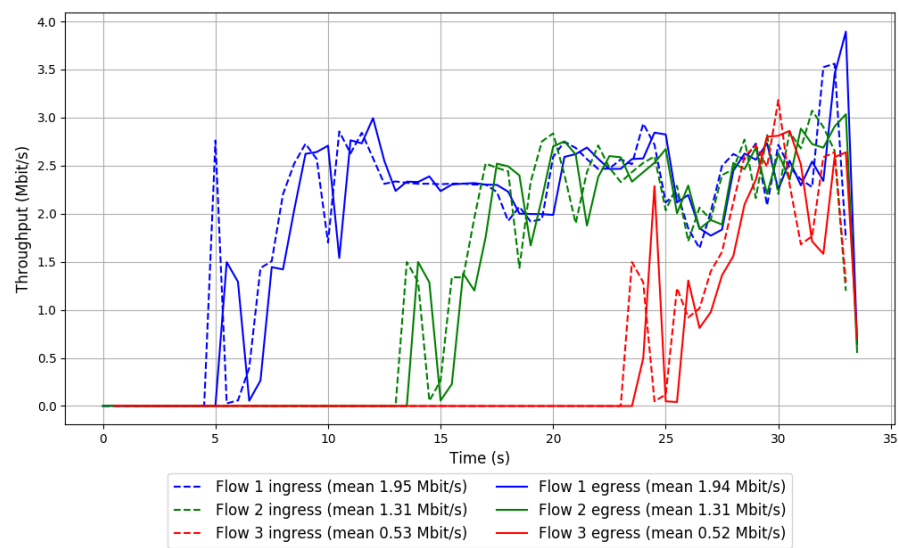
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 61.746 ms

Loss rate: 2.72%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-20 00:38:22

End at: 2018-06-20 00:38:52

Local clock offset: -0.059 ms

Remote clock offset: 1.344 ms

Below is generated by plot.py at 2018-06-20 04:54:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 62.455 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 62.390 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 62.559 ms

Loss rate: 0.70%

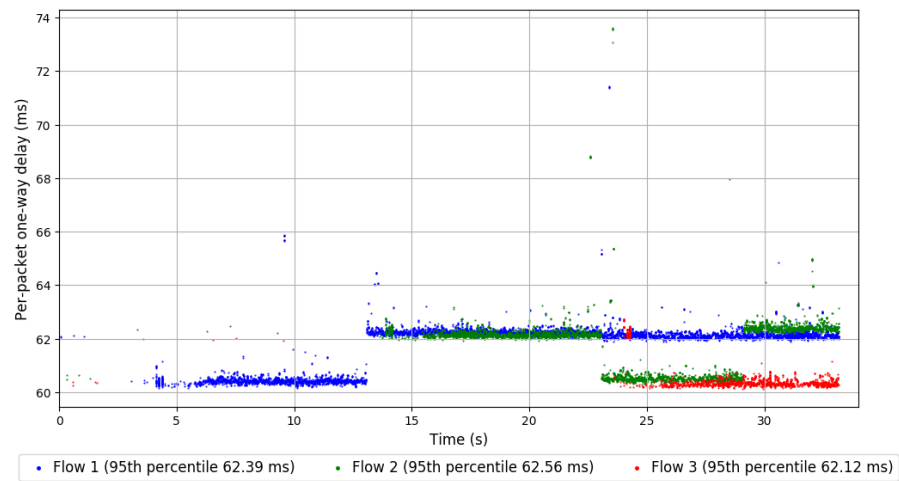
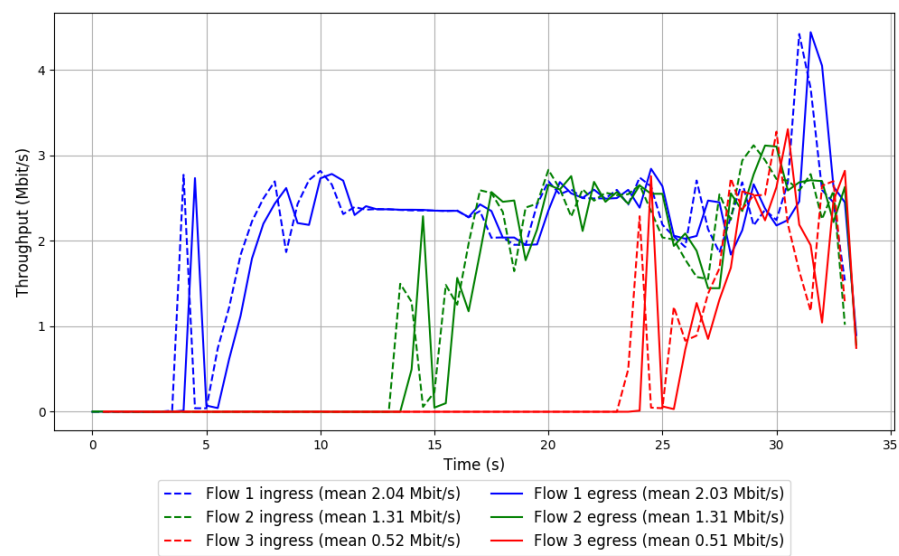
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 62.121 ms

Loss rate: 2.20%

Run 7: Report of WebRTC media — Data Link

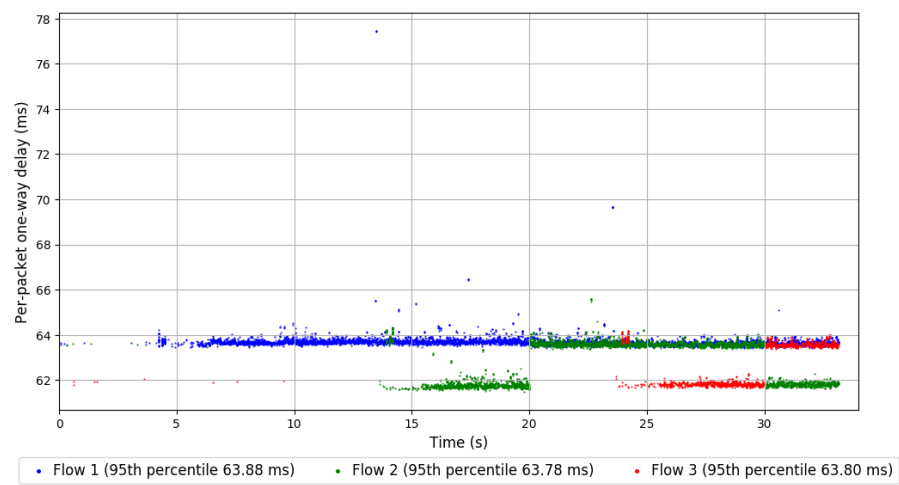
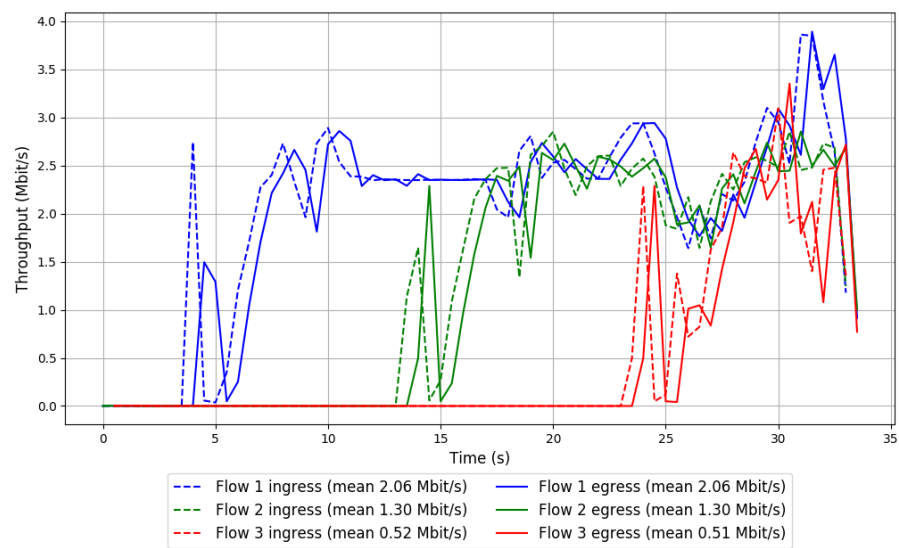


Run 8: Statistics of WebRTC media

Start at: 2018-06-20 01:01:55
End at: 2018-06-20 01:02:25
Local clock offset: -0.065 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-06-20 04:54:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 63.852 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 63.882 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 63.777 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.801 ms
Loss rate: 2.27%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-20 01:25:22

End at: 2018-06-20 01:25:52

Local clock offset: 0.036 ms

Remote clock offset: -1.37 ms

Below is generated by plot.py at 2018-06-20 04:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 65.211 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 65.185 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 65.226 ms

Loss rate: 0.98%

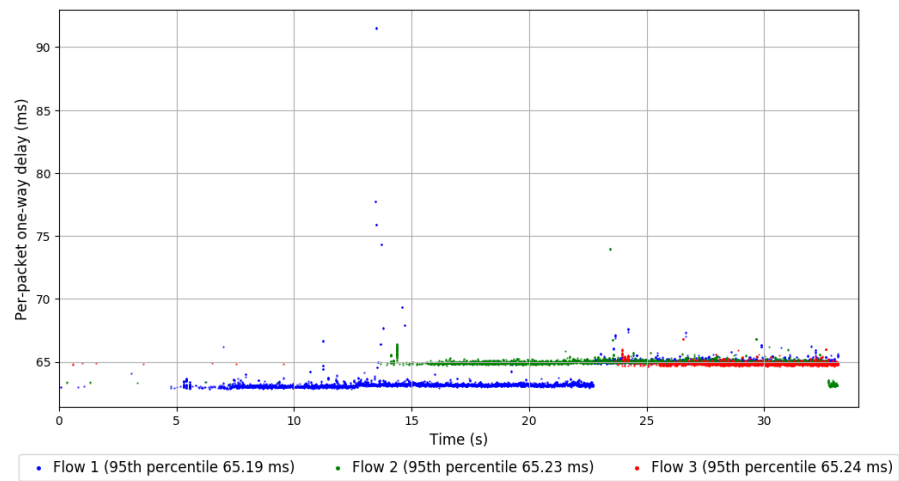
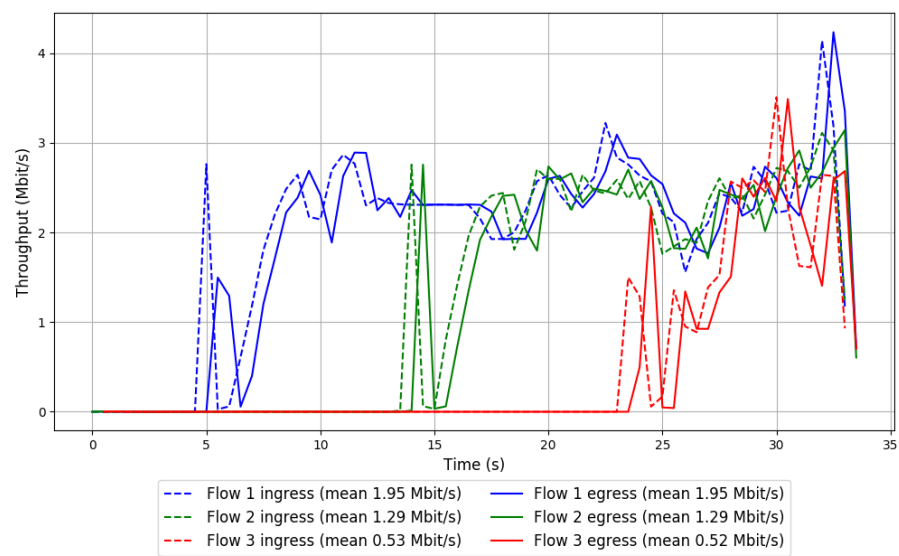
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 65.242 ms

Loss rate: 1.68%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-20 01:48:49

End at: 2018-06-20 01:49:19

Local clock offset: 0.027 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-20 04:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 63.817 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 63.825 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.97%

-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 1.65%

Run 10: Report of WebRTC media — Data Link

