

Pantheon Report

Generated at 2018-09-25 18:56:52 (UTC).

Data path: India on `em1` (*remote*) → AWS India 1 on `ens5` (*local*).

Repeated the test of 19 congestion control schemes 5 times.

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

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

```
Linux 4.15.0-1021-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
net.ipv4.tcp_mem = 184101 245469 368202
```

Git summary:

```
branch: muses @ 90192f6b64ce1a1191dcca0e9ff9ee24950674d7
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ cbfce6db5ff5740dafa1771f813cd646339e1952
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
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
```

```
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

Figure 10: Average throughput vs. 95th percentile one-way delay for the video codecs. The plot shows a negative correlation between delay and throughput. Coencoders like PCC-Expr, PCC-Allegro, and PCC-Vivace are clustered at higher delays and lower throughputs. Other codecs like FillP, Indeo, TaoVA-100x, and Verus are clustered at lower delays and higher throughputs. WebRTC media and SCREAM are at the bottom right, indicating very low throughput and low delay.



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	5	58.88	38.45	37.48	54.70	115.70	79.29	1.98	1.97	1.99
Copa	5	50.08	35.39	28.98	26.02	25.64	26.51	0.04	0.15	0.25
TCP Cubic	5	58.24	39.35	31.56	27.96	28.62	29.82	0.07	0.14	0.34
FillP	5	58.83	36.42	33.30	748.19	945.59	944.96	5.28	7.15	9.90
FillP-Sheep	5	57.46	42.30	31.77	76.23	85.92	193.14	1.59	1.71	0.83
Indigo	5	56.86	40.49	32.17	26.24	26.76	28.39	0.06	0.13	0.34
Indigo-96d2da3	5	60.66	39.11	29.49	81.09	125.12	169.98	3.74	4.13	4.79
LEDBAT	5	55.39	35.53	23.77	31.43	33.08	31.74	0.09	0.16	0.31
Indigo-Muses	5	53.04	38.57	24.43	24.54	25.29	25.38	0.05	0.12	0.23
PCC-Allegro	5	42.36	27.99	23.47	1099.02	1074.87	41.97	9.04	8.37	0.48
PCC-Expr	5	49.26	34.81	26.13	934.98	484.09	333.43	27.13	4.08	4.15
QUIC Cubic	5	57.91	38.74	24.92	35.95	39.67	42.27	0.11	0.21	0.53
SCReAM	5	0.21	0.22	0.19	21.13	21.14	21.11	0.13	0.19	0.33
Sprout	5	23.72	22.40	23.06	29.01	30.80	30.55	0.10	0.17	0.28
TaoVA-100x	5	55.98	38.92	31.11	113.73	148.97	140.96	0.45	0.81	1.79
TCP Vegas	5	53.84	38.06	41.19	23.55	23.61	25.79	0.05	0.10	0.32
Verus	5	43.94	34.47	27.10	60.49	83.87	136.54	0.12	0.16	0.49
PCC-Vivace	5	48.85	20.59	13.69	503.49	39.95	25.78	0.86	0.25	0.45
WebRTC media	5	1.62	0.94	0.42	21.28	21.24	21.27	0.05	0.08	0.16

Run 1: Statistics of TCP BBR

Start at: 2018-09-25 16:48:20

End at: 2018-09-25 16:48:50

Local clock offset: 2.859 ms

Remote clock offset: -3.8 ms

Below is generated by plot.py at 2018-09-25 18:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.84 Mbit/s

95th percentile per-packet one-way delay: 84.736 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 58.78 Mbit/s

95th percentile per-packet one-way delay: 53.416 ms

Loss rate: 2.43%

-- Flow 2:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 115.711 ms

Loss rate: 1.70%

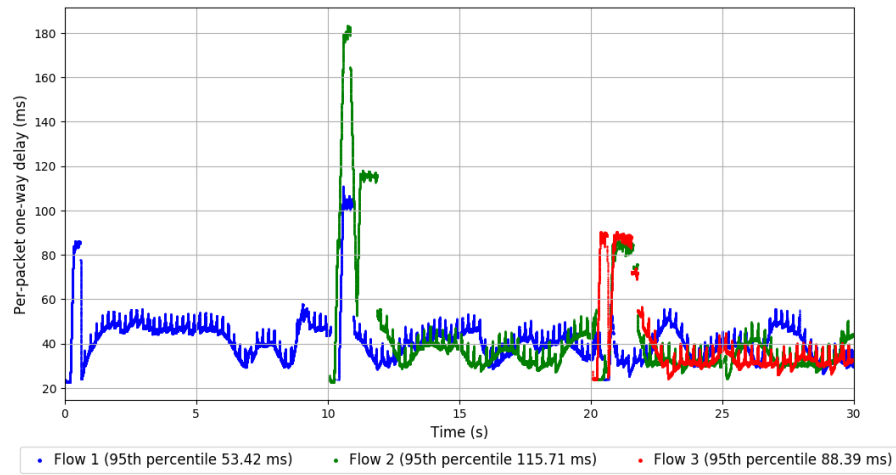
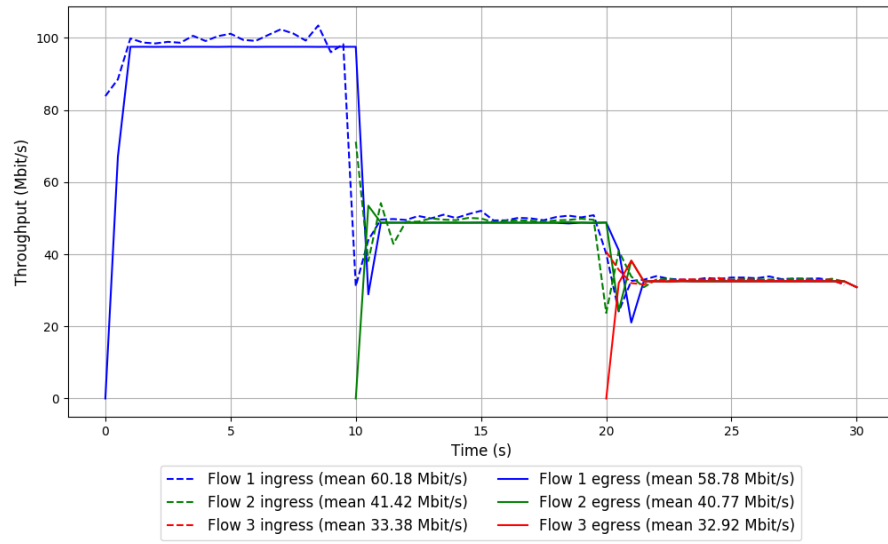
-- Flow 3:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 88.388 ms

Loss rate: 1.70%

Run 1: Report of TCP BBR — Data Link

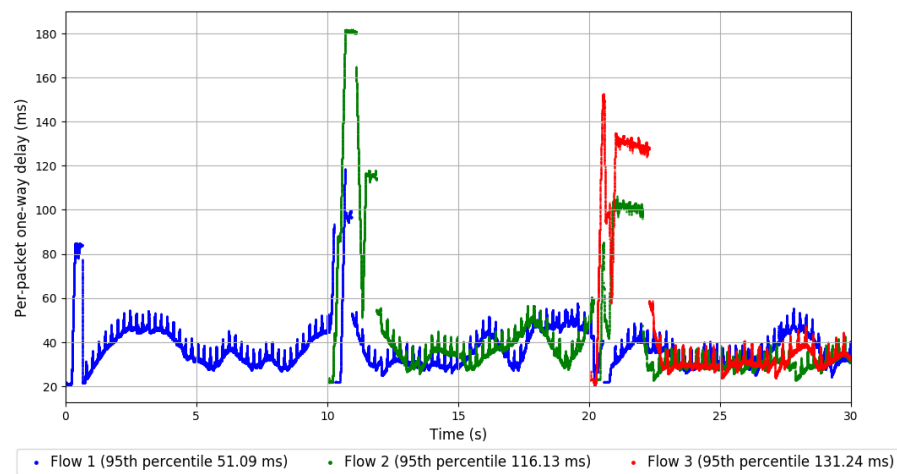
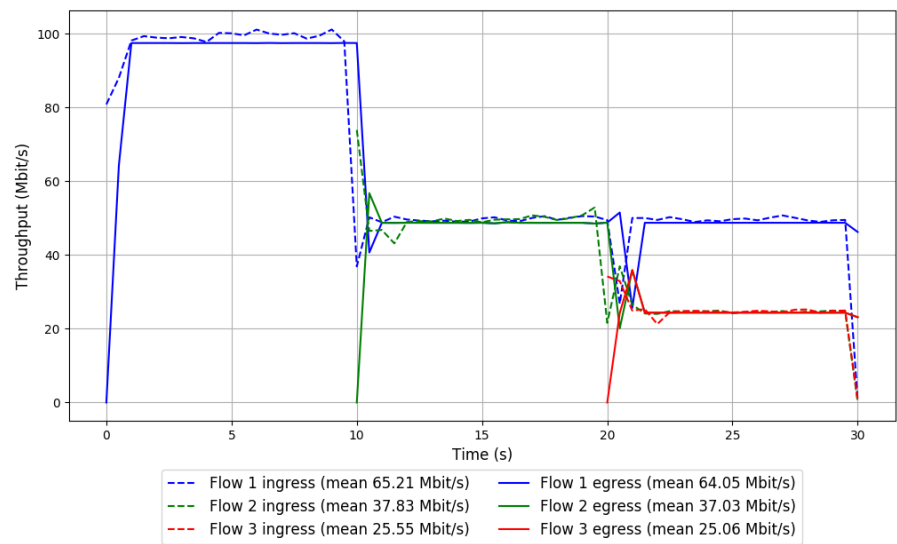


Run 2: Statistics of TCP BBR

Start at: 2018-09-25 17:14:05
End at: 2018-09-25 17:14:35
Local clock offset: -0.666 ms
Remote clock offset: -4.191 ms

Below is generated by plot.py at 2018-09-25 18:45:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 95.329 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 64.05 Mbit/s
95th percentile per-packet one-way delay: 51.086 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 116.133 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 25.06 Mbit/s
95th percentile per-packet one-way delay: 131.241 ms
Loss rate: 2.56%

Run 2: Report of TCP BBR — Data Link

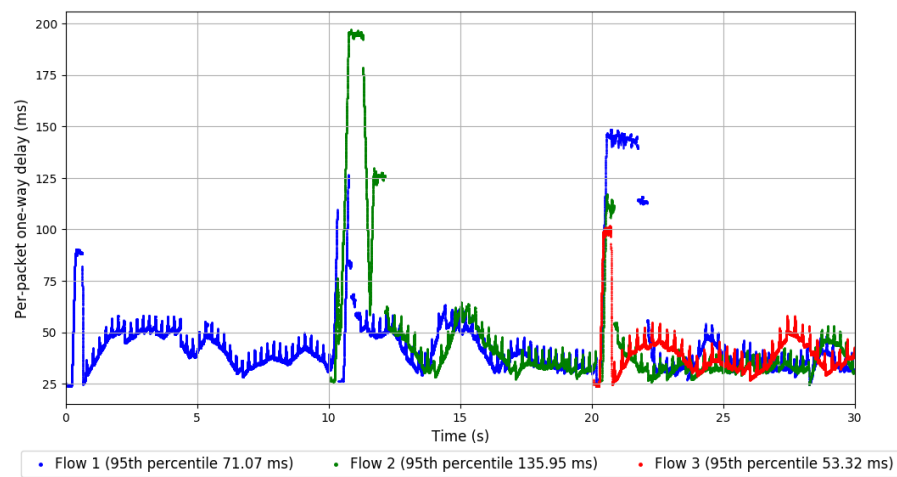
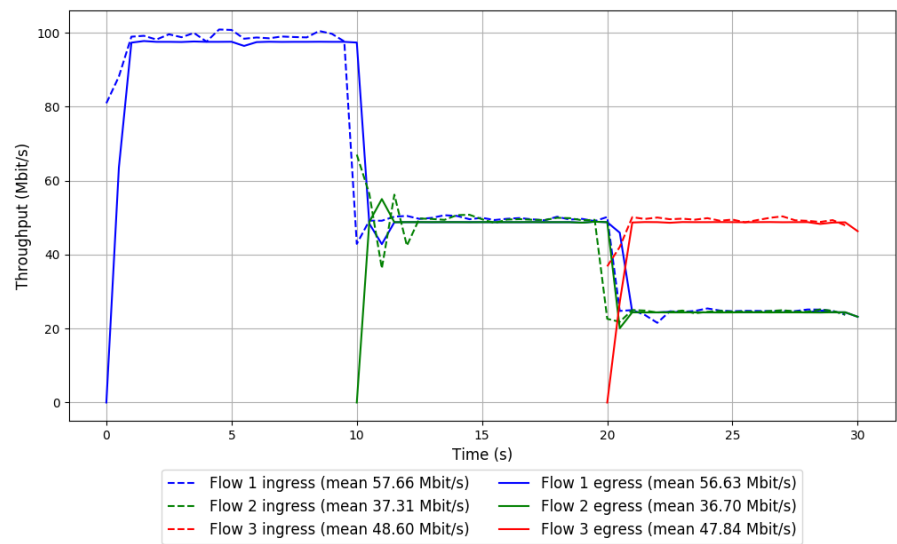


Run 3: Statistics of TCP BBR

Start at: 2018-09-25 17:39:27
End at: 2018-09-25 17:39:57
Local clock offset: 1.323 ms
Remote clock offset: -4.038 ms

Below is generated by plot.py at 2018-09-25 18:45:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 89.915 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 56.63 Mbit/s
95th percentile per-packet one-way delay: 71.072 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 36.70 Mbit/s
95th percentile per-packet one-way delay: 135.946 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 47.84 Mbit/s
95th percentile per-packet one-way delay: 53.323 ms
Loss rate: 1.87%

Run 3: Report of TCP BBR — Data Link

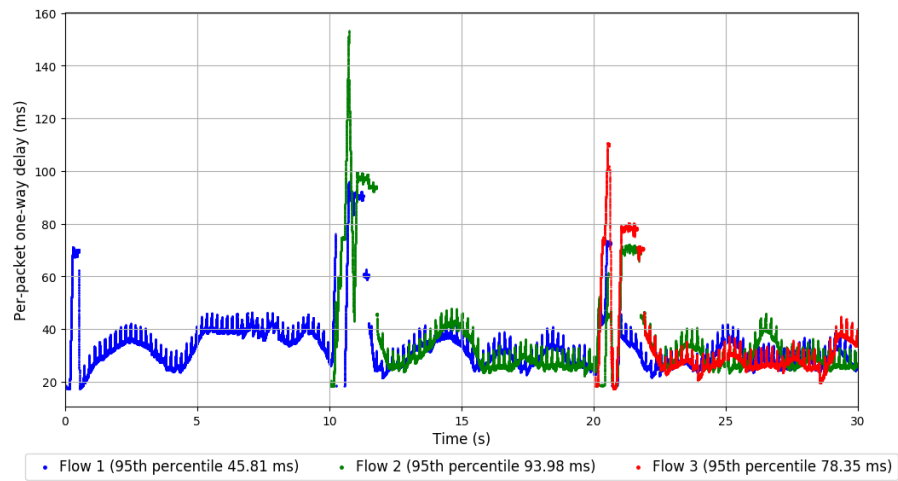
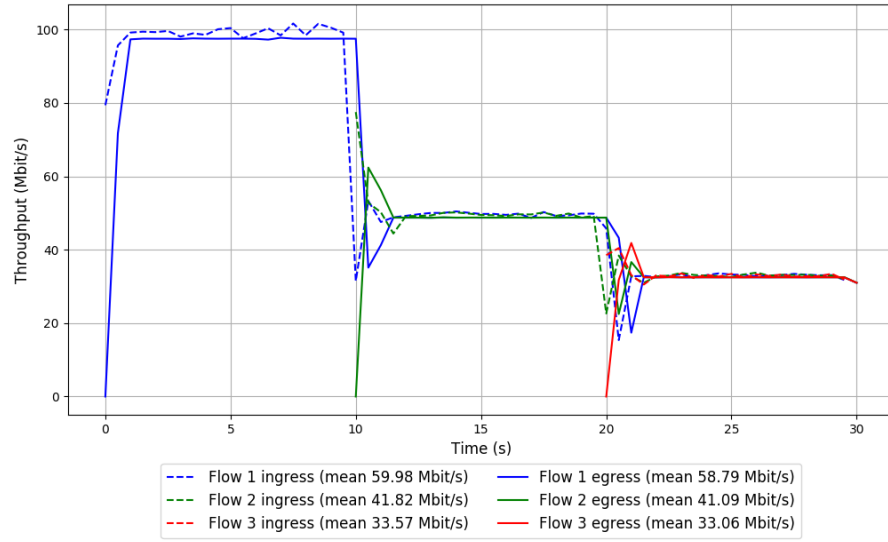


Run 4: Statistics of TCP BBR

Start at: 2018-09-25 18:04:39
End at: 2018-09-25 18:05:09
Local clock offset: 2.08 ms
Remote clock offset: -3.067 ms

Below is generated by plot.py at 2018-09-25 18:45:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 70.845 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 58.79 Mbit/s
95th percentile per-packet one-way delay: 45.814 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 93.982 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 33.06 Mbit/s
95th percentile per-packet one-way delay: 78.346 ms
Loss rate: 1.77%

Run 4: Report of TCP BBR — Data Link

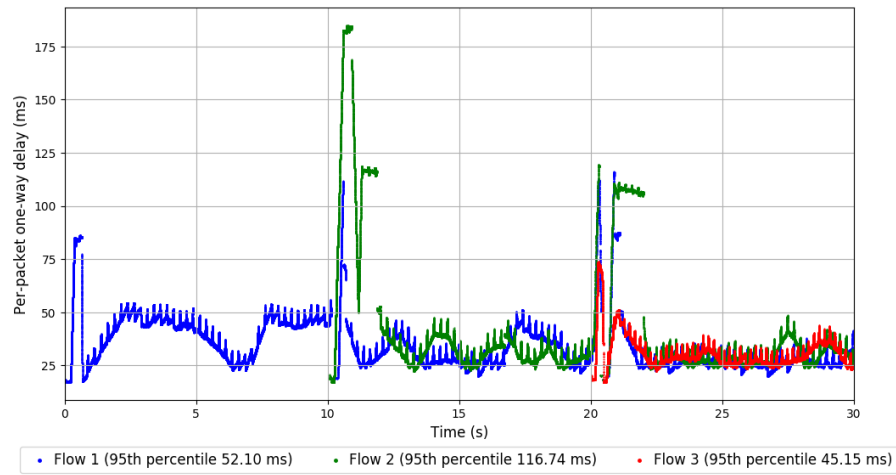
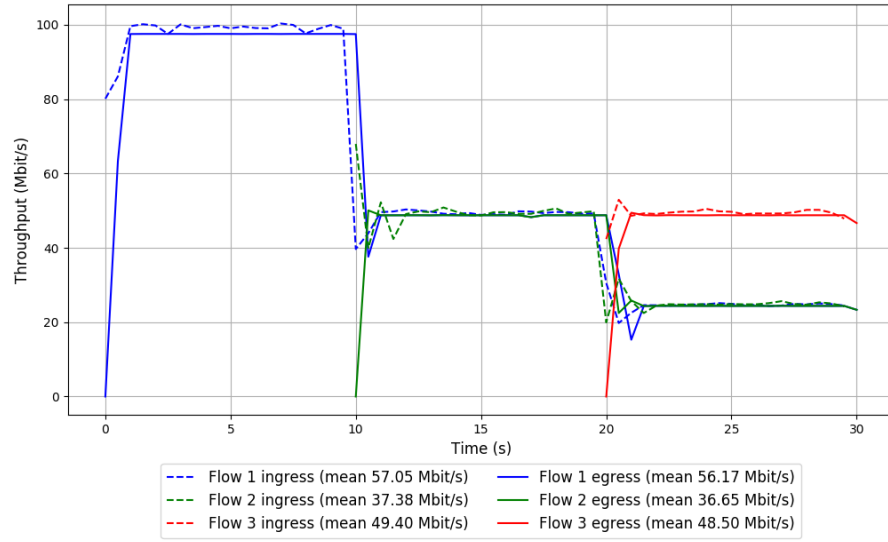


Run 5: Statistics of TCP BBR

Start at: 2018-09-25 18:29:21
End at: 2018-09-25 18:29:51
Local clock offset: 0.307 ms
Remote clock offset: -3.466 ms

Below is generated by plot.py at 2018-09-25 18:45:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 77.883 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 52.099 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 116.740 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 48.50 Mbit/s
95th percentile per-packet one-way delay: 45.148 ms
Loss rate: 2.07%

Run 5: Report of TCP BBR — Data Link

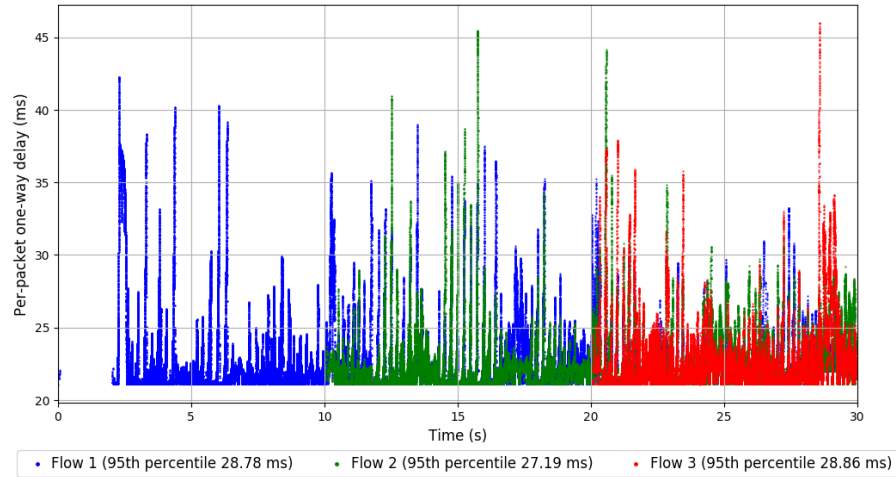
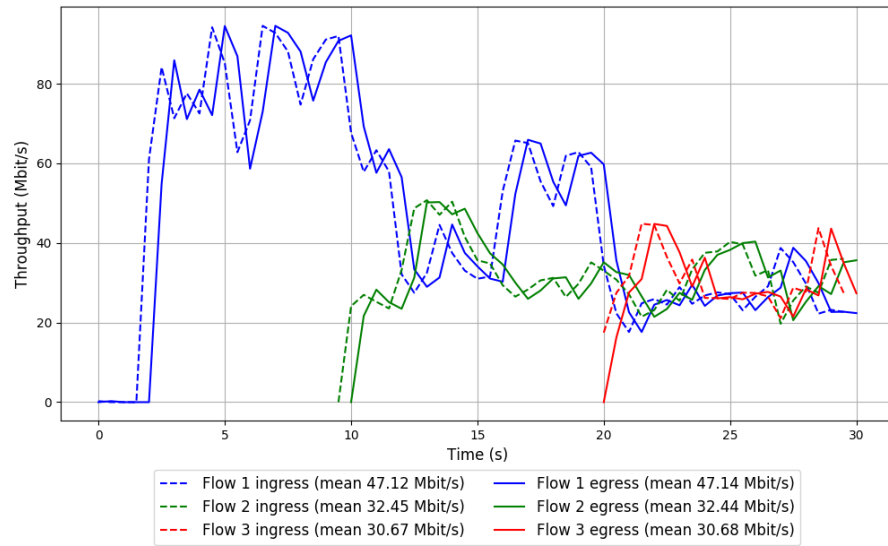


Run 1: Statistics of Copa

Start at: 2018-09-25 17:00:19
End at: 2018-09-25 17:00:49
Local clock offset: 1.082 ms
Remote clock offset: -3.698 ms

Below is generated by plot.py at 2018-09-25 18:45:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.91 Mbit/s
95th percentile per-packet one-way delay: 28.238 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 47.14 Mbit/s
95th percentile per-packet one-way delay: 28.778 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 27.188 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 28.857 ms
Loss rate: 0.27%

Run 1: Report of Copa — Data Link

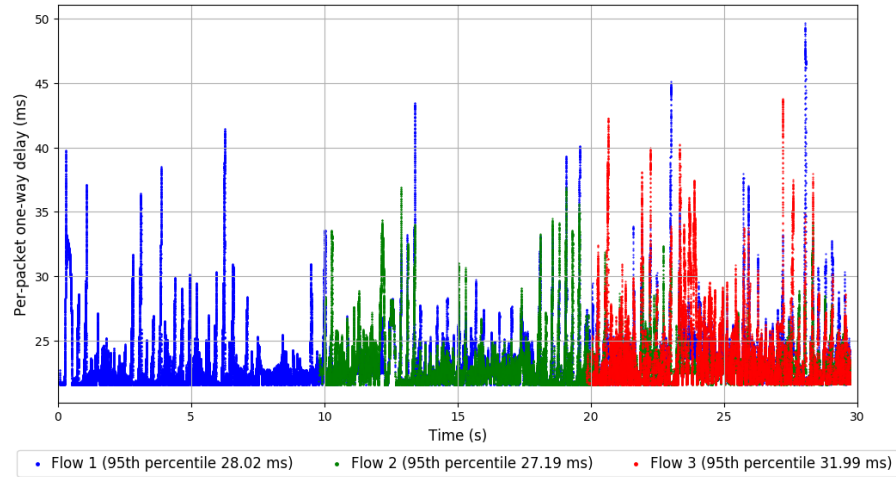
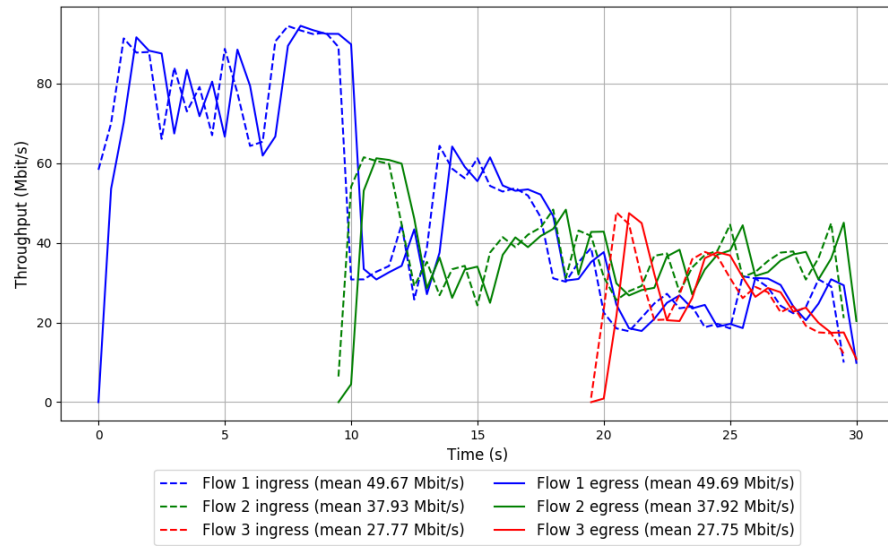


Run 2: Statistics of Copa

Start at: 2018-09-25 17:25:49
End at: 2018-09-25 17:26:19
Local clock offset: 0.765 ms
Remote clock offset: -2.624 ms

Below is generated by plot.py at 2018-09-25 18:45:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.41 Mbit/s
95th percentile per-packet one-way delay: 28.236 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 28.021 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 27.193 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 27.75 Mbit/s
95th percentile per-packet one-way delay: 31.990 ms
Loss rate: 0.37%

Run 2: Report of Copa — Data Link

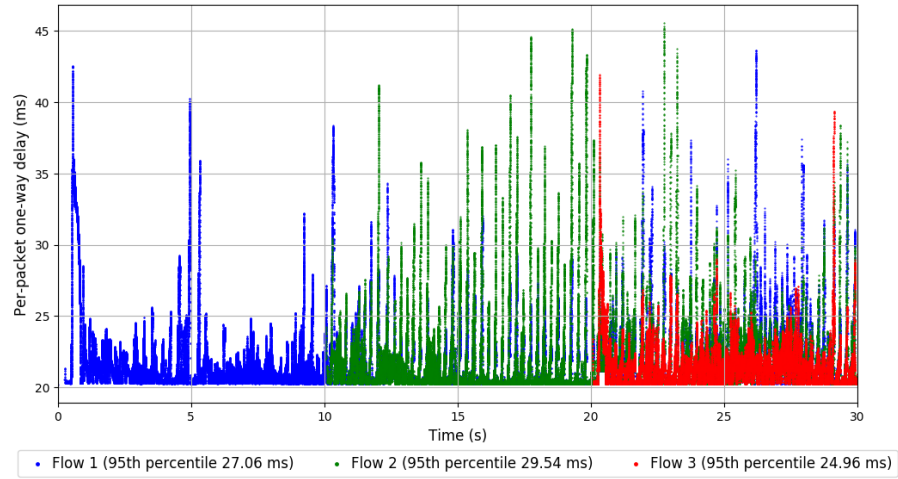
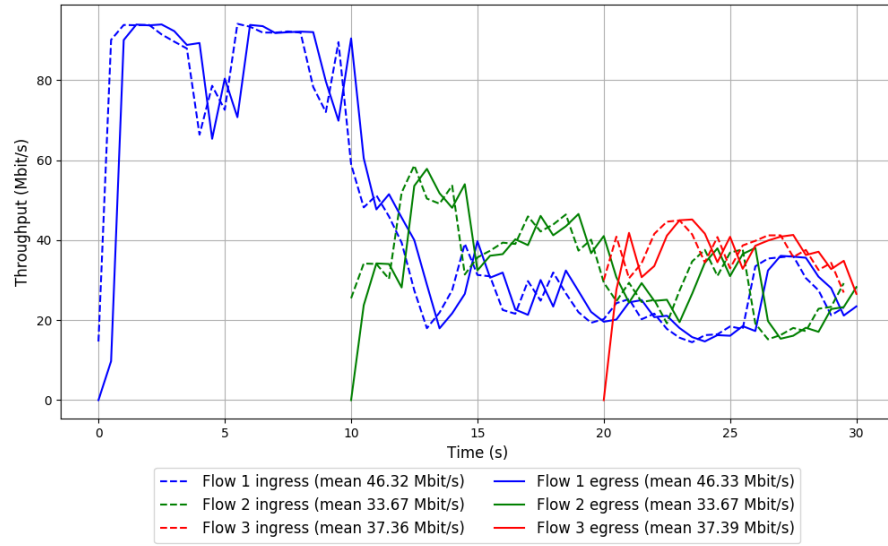


Run 3: Statistics of Copa

Start at: 2018-09-25 17:51:23
End at: 2018-09-25 17:51:53
Local clock offset: 0.575 ms
Remote clock offset: -2.535 ms

Below is generated by plot.py at 2018-09-25 18:45:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.15 Mbit/s
95th percentile per-packet one-way delay: 27.557 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 46.33 Mbit/s
95th percentile per-packet one-way delay: 27.058 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 33.67 Mbit/s
95th percentile per-packet one-way delay: 29.542 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 24.965 ms
Loss rate: 0.18%

Run 3: Report of Copa — Data Link

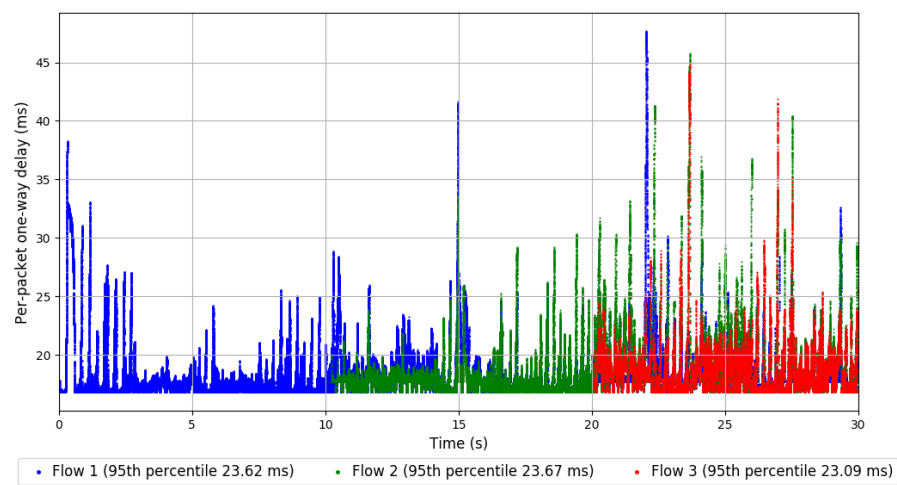
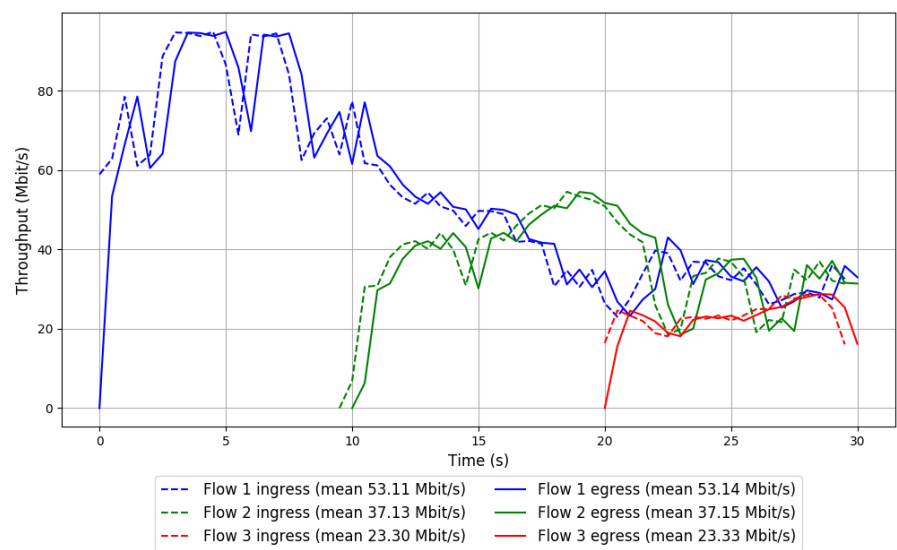


Run 4: Statistics of Copa

Start at: 2018-09-25 18:16:37
End at: 2018-09-25 18:17:07
Local clock offset: -0.394 ms
Remote clock offset: -4.227 ms

Below is generated by plot.py at 2018-09-25 18:46:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.64 Mbit/s
95th percentile per-packet one-way delay: 23.565 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 23.619 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 23.674 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 23.090 ms
Loss rate: 0.11%

Run 4: Report of Copa — Data Link

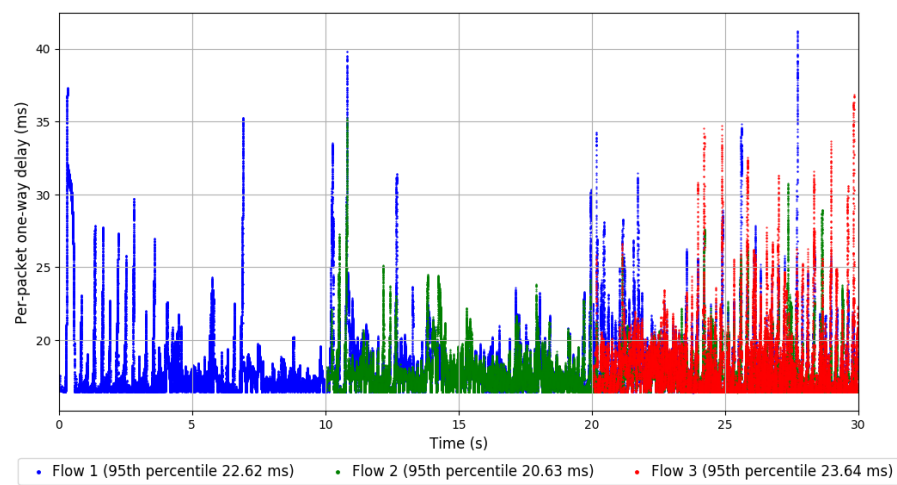
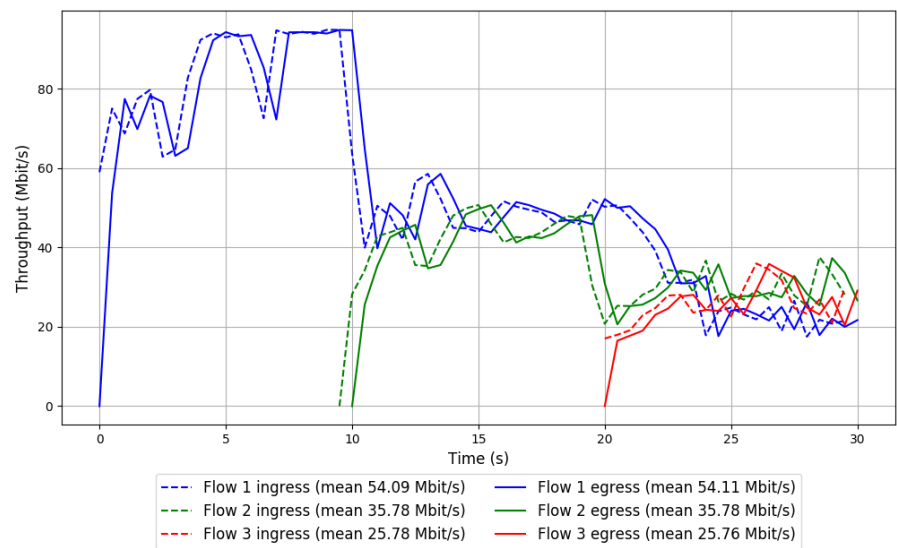


Run 5: Statistics of Copa

Start at: 2018-09-25 18:41:02
End at: 2018-09-25 18:41:32
Local clock offset: -0.896 ms
Remote clock offset: -4.068 ms

Below is generated by plot.py at 2018-09-25 18:46:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 22.144 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 54.11 Mbit/s
95th percentile per-packet one-way delay: 22.625 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 35.78 Mbit/s
95th percentile per-packet one-way delay: 20.627 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 25.76 Mbit/s
95th percentile per-packet one-way delay: 23.635 ms
Loss rate: 0.32%

Run 5: Report of Copa — Data Link

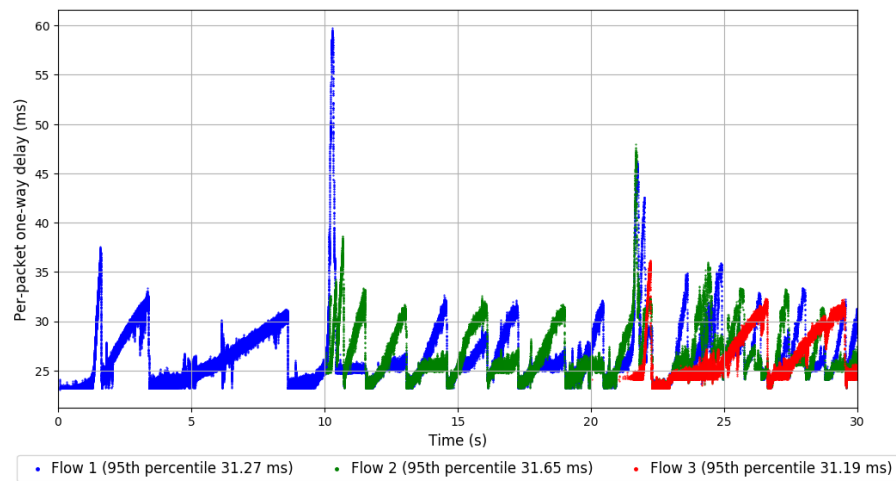
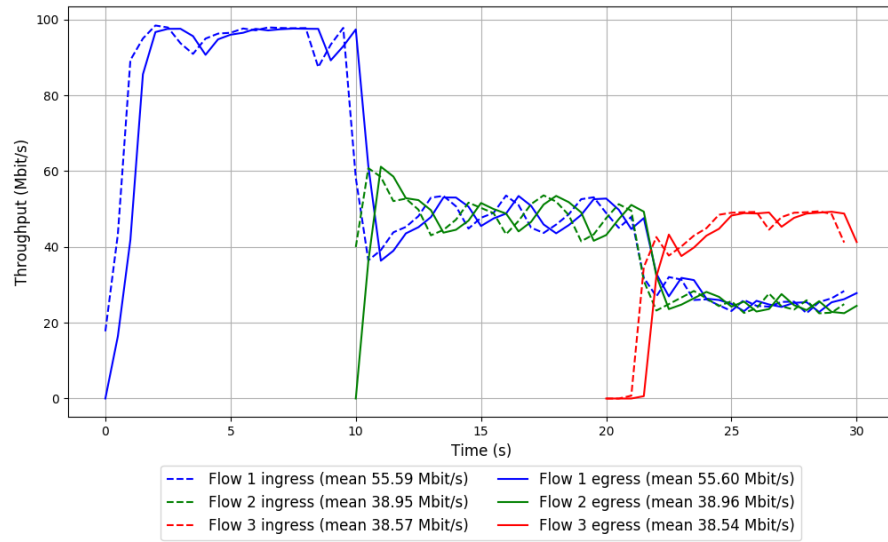


Run 1: Statistics of TCP Cubic

Start at: 2018-09-25 16:52:27
End at: 2018-09-25 16:52:57
Local clock offset: 3.255 ms
Remote clock offset: -3.768 ms

Below is generated by plot.py at 2018-09-25 18:46:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 31.338 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 31.265 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 31.651 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 31.189 ms
Loss rate: 0.39%

Run 1: Report of TCP Cubic — Data Link

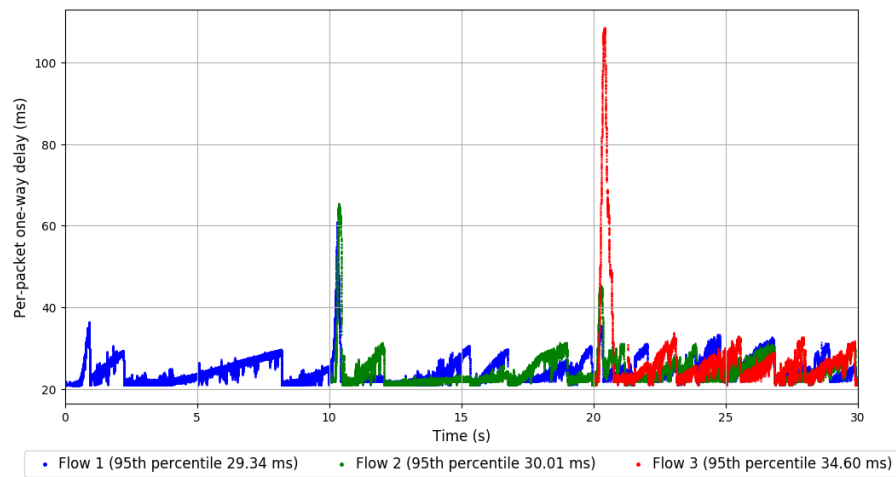
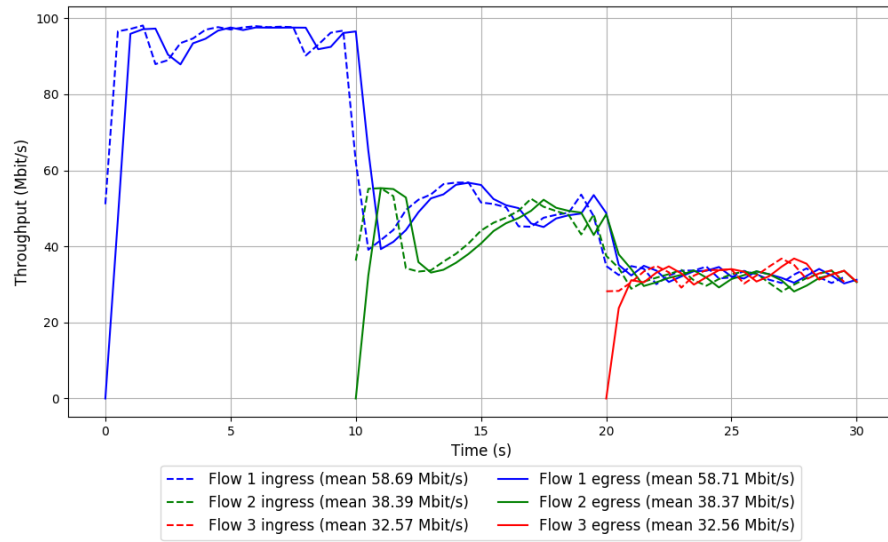


Run 2: Statistics of TCP Cubic

Start at: 2018-09-25 17:17:59
End at: 2018-09-25 17:18:29
Local clock offset: -1.265 ms
Remote clock offset: -4.462 ms

Below is generated by plot.py at 2018-09-25 18:46:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 30.016 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 29.344 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.37 Mbit/s
95th percentile per-packet one-way delay: 30.009 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 32.56 Mbit/s
95th percentile per-packet one-way delay: 34.599 ms
Loss rate: 0.33%

Run 2: Report of TCP Cubic — Data Link

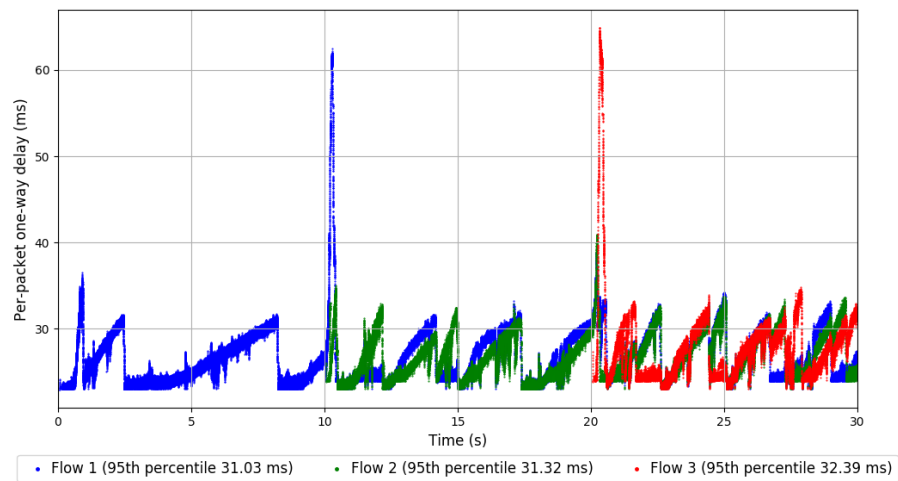
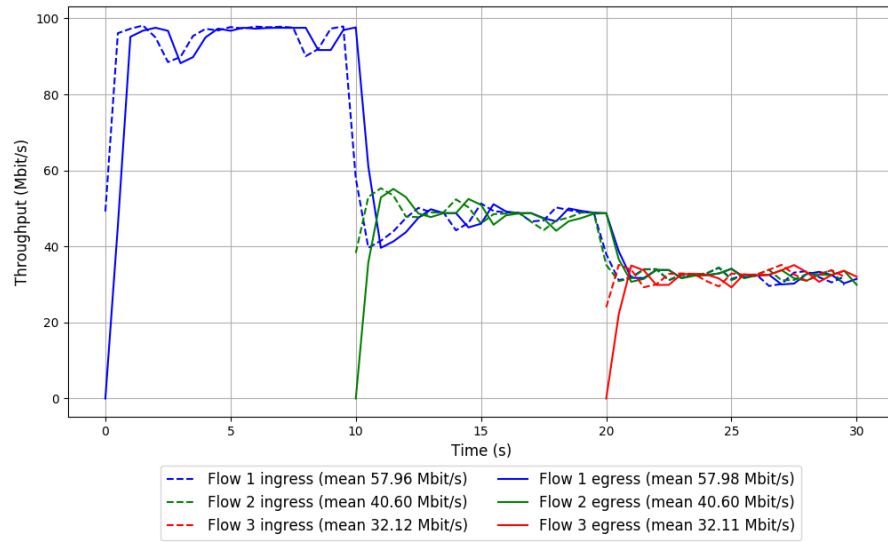


Run 3: Statistics of TCP Cubic

Start at: 2018-09-25 17:43:28
End at: 2018-09-25 17:43:58
Local clock offset: 1.314 ms
Remote clock offset: -3.837 ms

Below is generated by plot.py at 2018-09-25 18:46:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 31.285 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 57.98 Mbit/s
95th percentile per-packet one-way delay: 31.029 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 31.318 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.11 Mbit/s
95th percentile per-packet one-way delay: 32.394 ms
Loss rate: 0.34%

Run 3: Report of TCP Cubic — Data Link

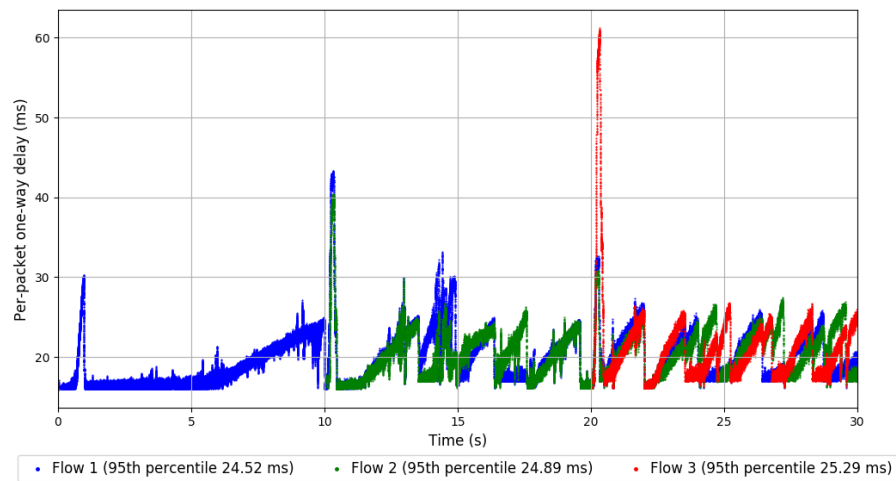
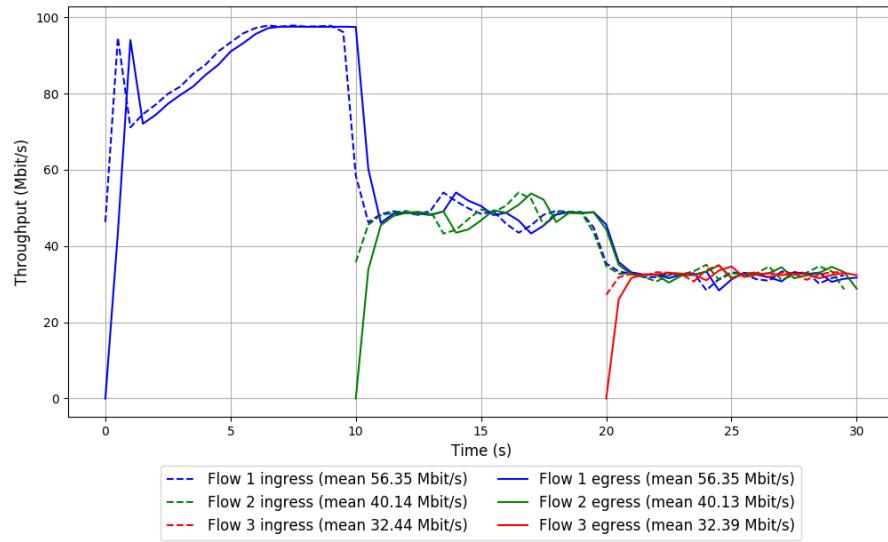


Run 4: Statistics of TCP Cubic

Start at: 2018-09-25 18:08:45
End at: 2018-09-25 18:09:15
Local clock offset: 0.778 ms
Remote clock offset: -3.057 ms

Below is generated by plot.py at 2018-09-25 18:46:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 24.782 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 24.518 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 24.888 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.39 Mbit/s
95th percentile per-packet one-way delay: 25.287 ms
Loss rate: 0.37%

Run 4: Report of TCP Cubic — Data Link

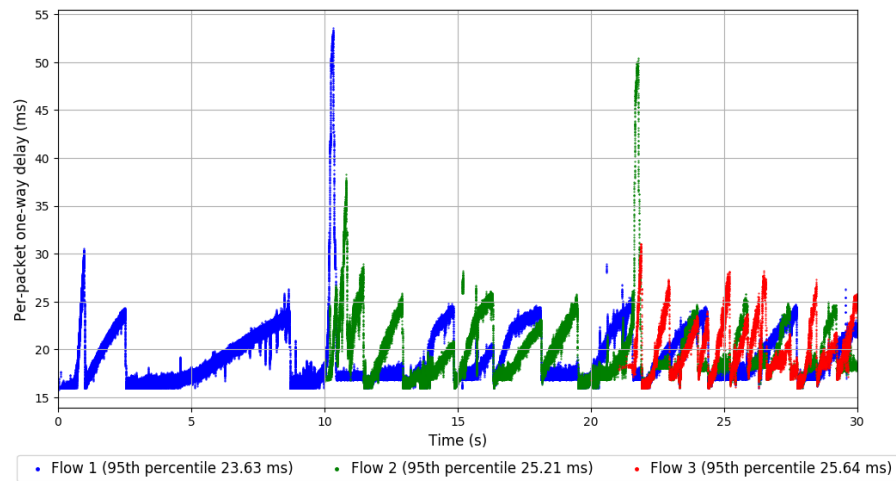
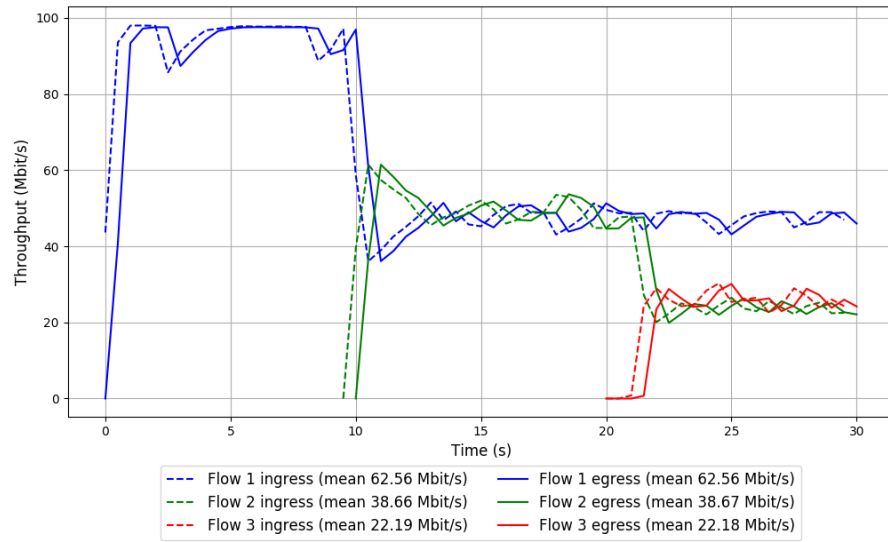


Run 5: Statistics of TCP Cubic

Start at: 2018-09-25 18:33:07
End at: 2018-09-25 18:33:37
Local clock offset: -0.257 ms
Remote clock offset: -2.751 ms

Below is generated by plot.py at 2018-09-25 18:46:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 24.200 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 62.56 Mbit/s
95th percentile per-packet one-way delay: 23.630 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 25.212 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 22.18 Mbit/s
95th percentile per-packet one-way delay: 25.643 ms
Loss rate: 0.28%

Run 5: Report of TCP Cubic — Data Link

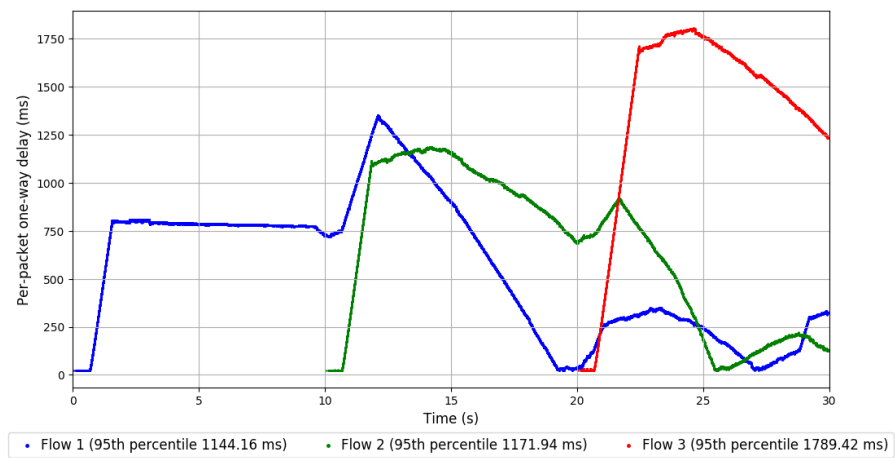
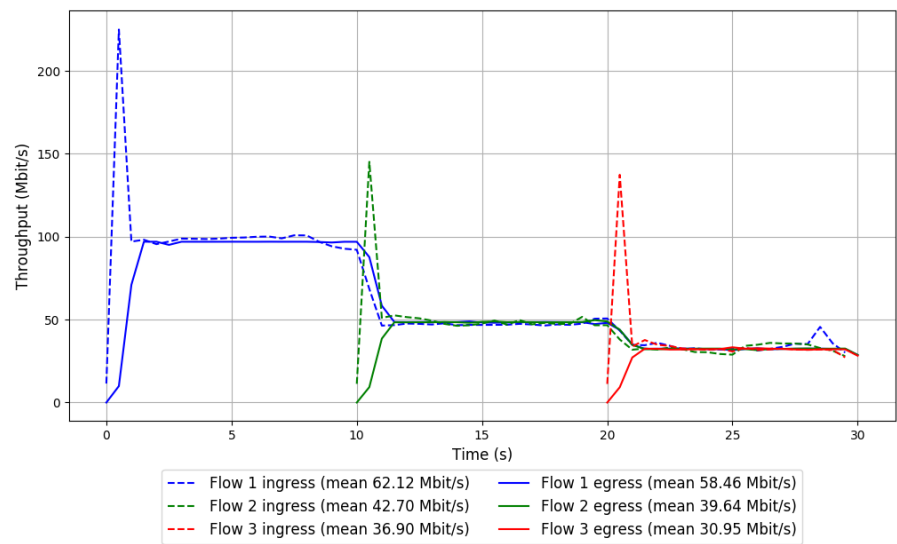


Run 1: Statistics of FillP

Start at: 2018-09-25 16:39:32
End at: 2018-09-25 16:40:02
Local clock offset: 2.166 ms
Remote clock offset: -4.947 ms

Below is generated by plot.py at 2018-09-25 18:47:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 1602.876 ms
Loss rate: 7.56%
-- Flow 1:
Average throughput: 58.46 Mbit/s
95th percentile per-packet one-way delay: 1144.157 ms
Loss rate: 5.98%
-- Flow 2:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 1171.944 ms
Loss rate: 7.25%
-- Flow 3:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 1789.423 ms
Loss rate: 16.31%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-09-25 17:05:54

End at: 2018-09-25 17:06:24

Local clock offset: 2.987 ms

Remote clock offset: -4.1 ms

Below is generated by plot.py at 2018-09-25 18:47:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 308.817 ms

Loss rate: 4.28%

-- Flow 1:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 354.032 ms

Loss rate: 4.28%

-- Flow 2:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 264.541 ms

Loss rate: 4.17%

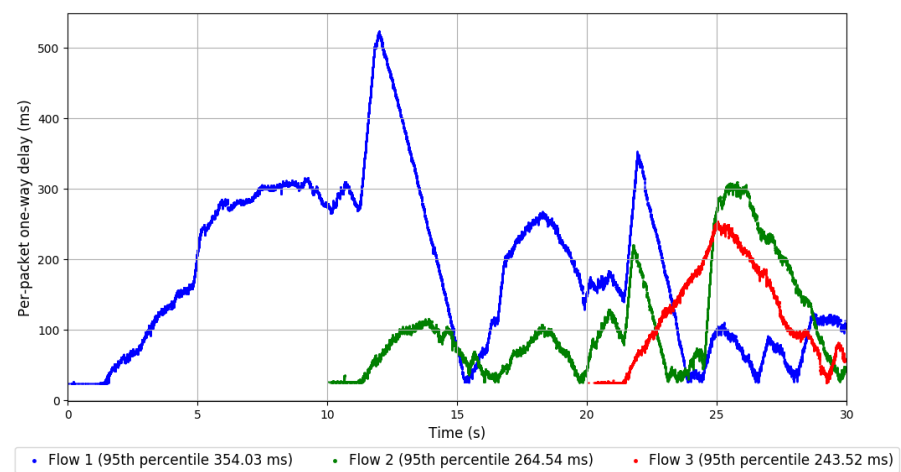
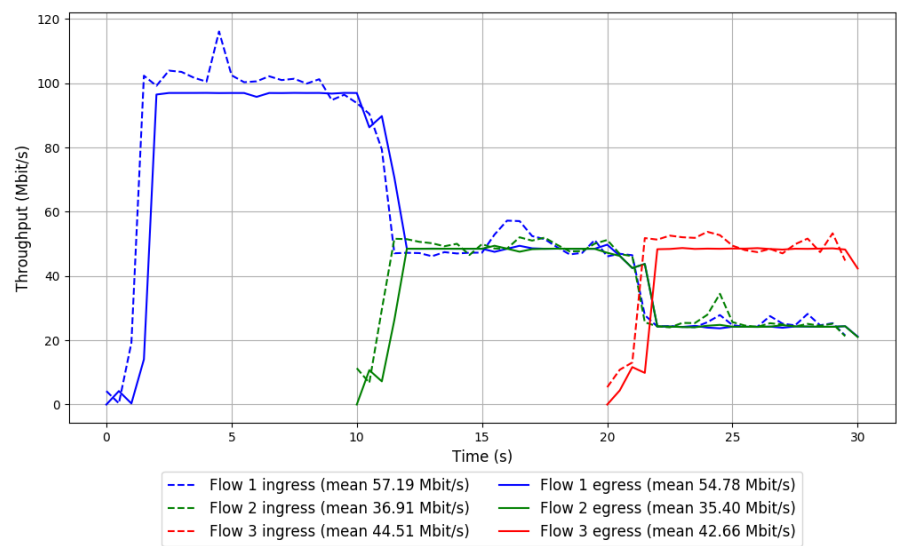
-- Flow 3:

Average throughput: 42.66 Mbit/s

95th percentile per-packet one-way delay: 243.518 ms

Loss rate: 4.43%

Run 2: Report of FillP — Data Link

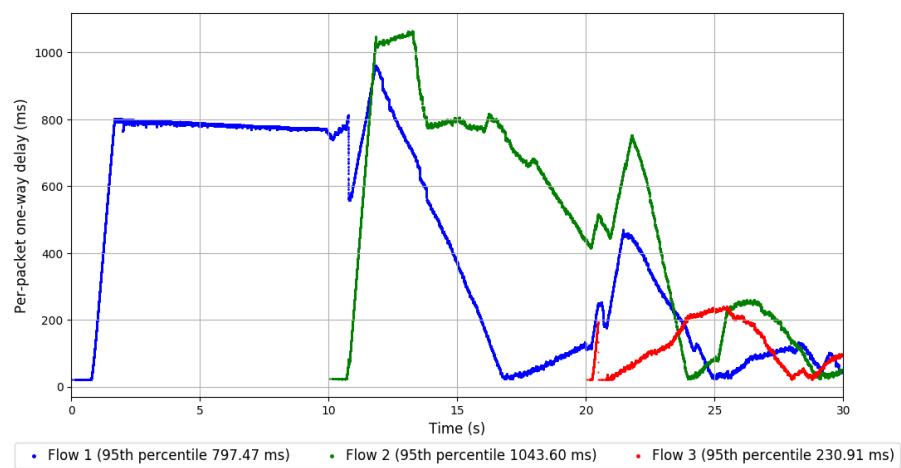
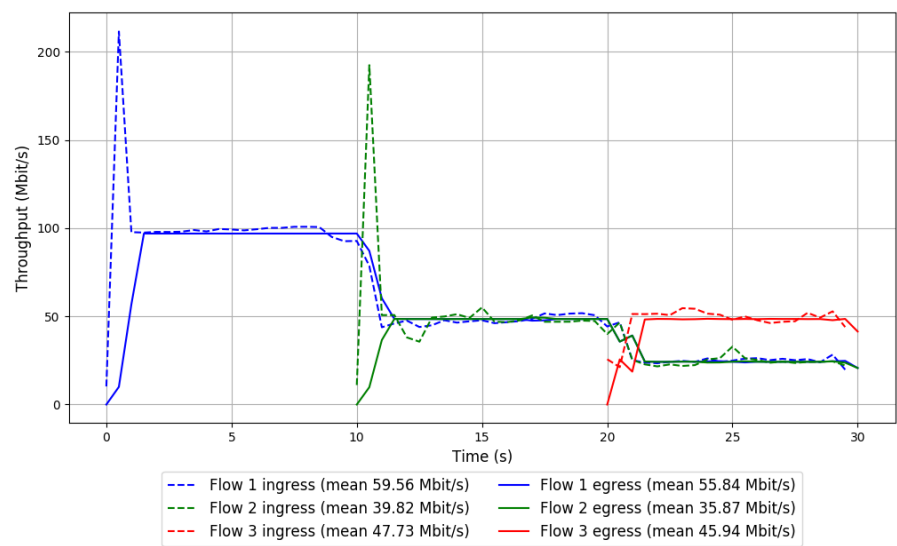


Run 3: Statistics of FillP

Start at: 2018-09-25 17:31:14
End at: 2018-09-25 17:31:44
Local clock offset: -1.302 ms
Remote clock offset: -3.988 ms

Below is generated by plot.py at 2018-09-25 18:47:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 832.910 ms
Loss rate: 6.94%
-- Flow 1:
Average throughput: 55.84 Mbit/s
95th percentile per-packet one-way delay: 797.472 ms
Loss rate: 6.33%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 1043.603 ms
Loss rate: 10.04%
-- Flow 3:
Average throughput: 45.94 Mbit/s
95th percentile per-packet one-way delay: 230.905 ms
Loss rate: 4.04%

Run 3: Report of FillP — Data Link

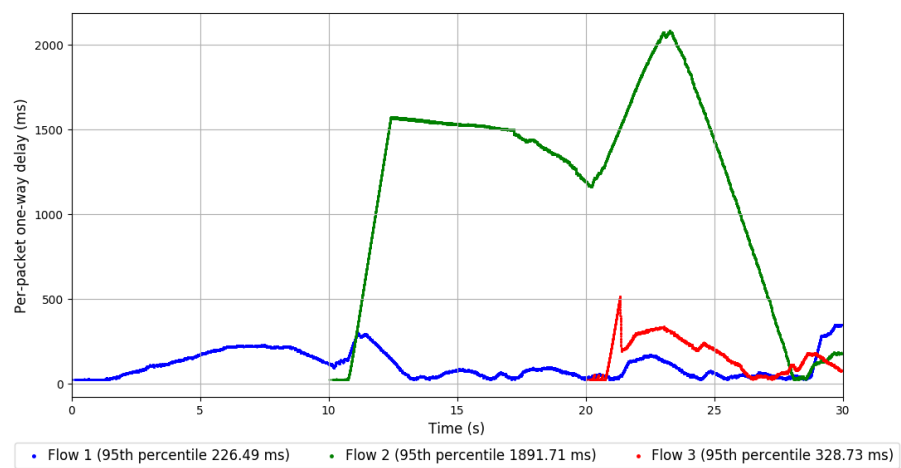
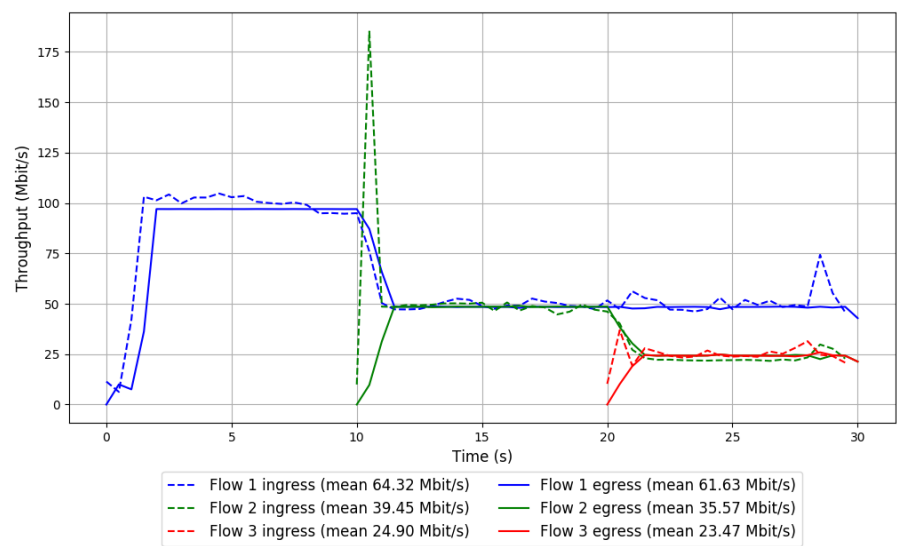


Run 4: Statistics of FillP

Start at: 2018-09-25 17:56:55
End at: 2018-09-25 17:57:25
Local clock offset: 3.961 ms
Remote clock offset: -3.568 ms

Below is generated by plot.py at 2018-09-25 18:47:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 1554.130 ms
Loss rate: 5.92%
-- Flow 1:
Average throughput: 61.63 Mbit/s
95th percentile per-packet one-way delay: 226.487 ms
Loss rate: 4.26%
-- Flow 2:
Average throughput: 35.57 Mbit/s
95th percentile per-packet one-way delay: 1891.708 ms
Loss rate: 9.96%
-- Flow 3:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 328.730 ms
Loss rate: 5.98%

Run 4: Report of FillP — Data Link

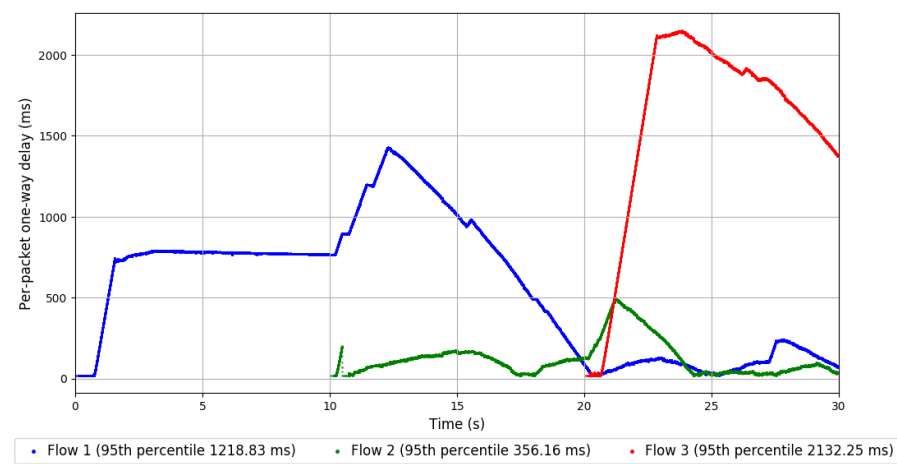
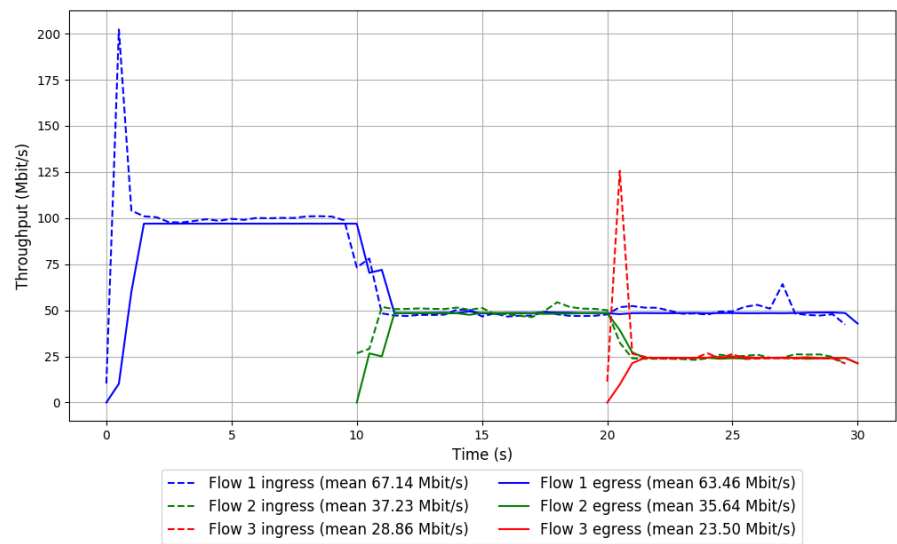


Run 5: Statistics of FillP

Start at: 2018-09-25 18:21:54
End at: 2018-09-25 18:22:24
Local clock offset: 1.571 ms
Remote clock offset: -3.158 ms

Below is generated by plot.py at 2018-09-25 18:48:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 1682.784 ms
Loss rate: 6.51%
-- Flow 1:
Average throughput: 63.46 Mbit/s
95th percentile per-packet one-way delay: 1218.826 ms
Loss rate: 5.57%
-- Flow 2:
Average throughput: 35.64 Mbit/s
95th percentile per-packet one-way delay: 356.163 ms
Loss rate: 4.35%
-- Flow 3:
Average throughput: 23.50 Mbit/s
95th percentile per-packet one-way delay: 2132.249 ms
Loss rate: 18.75%

Run 5: Report of FillP — Data Link

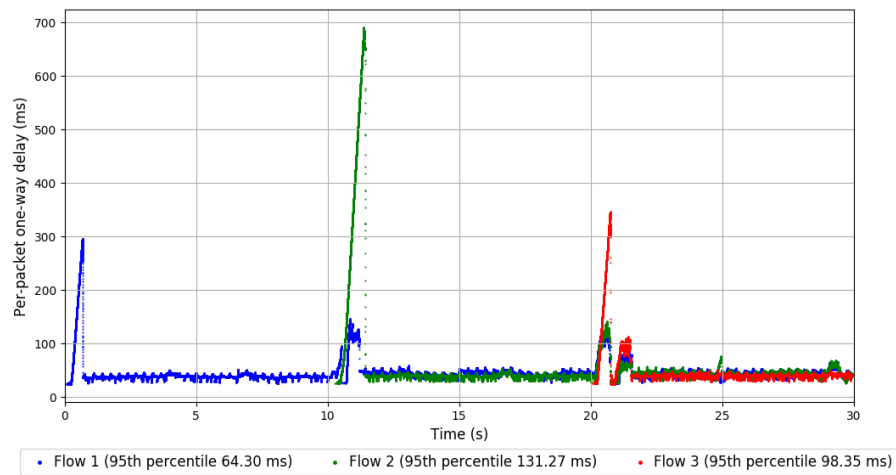
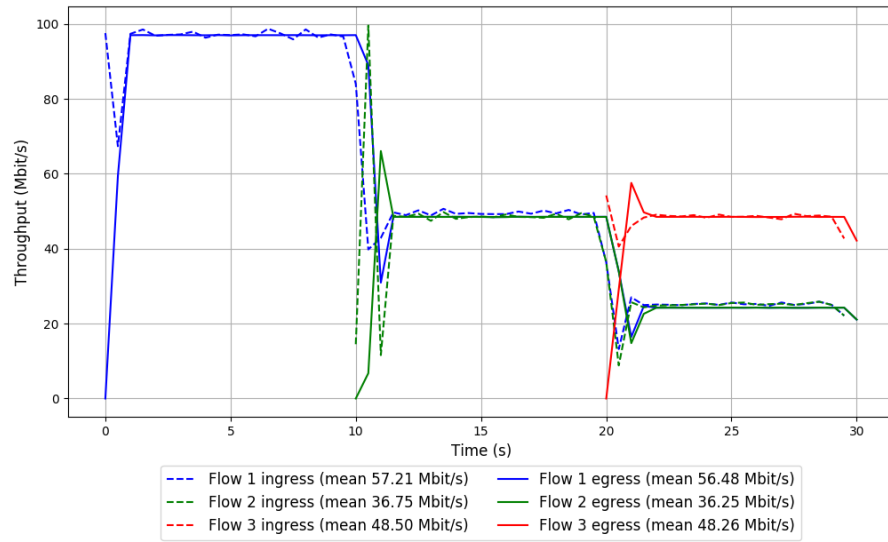


Run 1: Statistics of FillP-Sheep

Start at: 2018-09-25 16:56:27
End at: 2018-09-25 16:56:57
Local clock offset: 3.718 ms
Remote clock offset: -4.407 ms

Below is generated by plot.py at 2018-09-25 18:48:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 92.223 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 64.302 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 131.270 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 98.353 ms
Loss rate: 0.79%

Run 1: Report of FillP-Sheep — Data Link

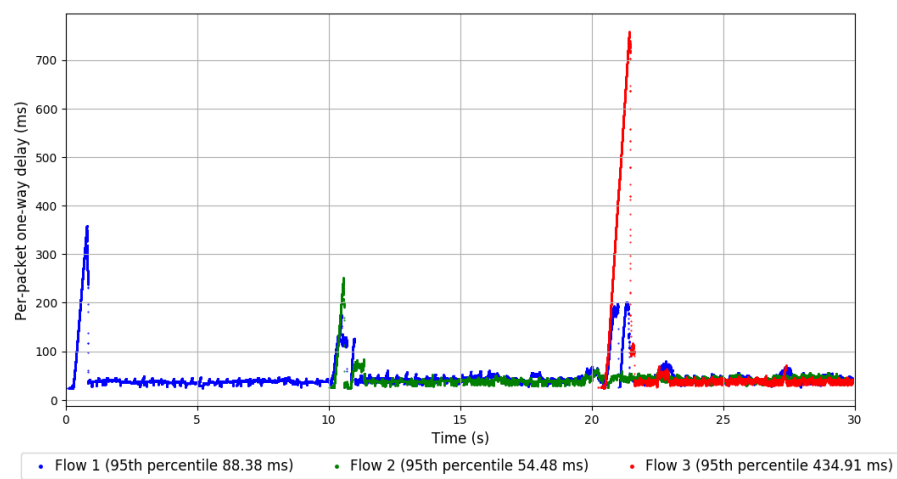
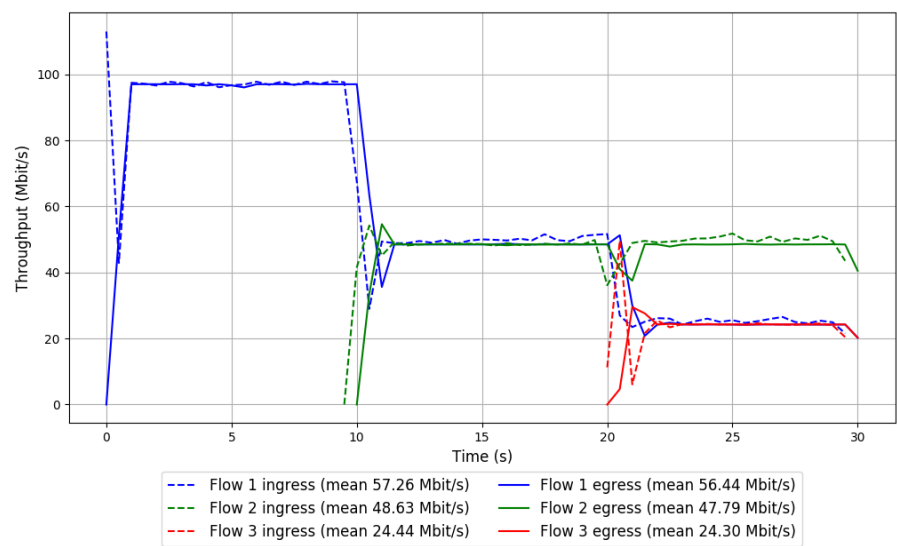


Run 2: Statistics of FillP-Sheep

Start at: 2018-09-25 17:21:46
End at: 2018-09-25 17:22:16
Local clock offset: 3.069 ms
Remote clock offset: -3.119 ms

Below is generated by plot.py at 2018-09-25 18:48:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 70.894 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 88.383 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 54.479 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 434.908 ms
Loss rate: 0.83%

Run 2: Report of FillP-Sheep — Data Link

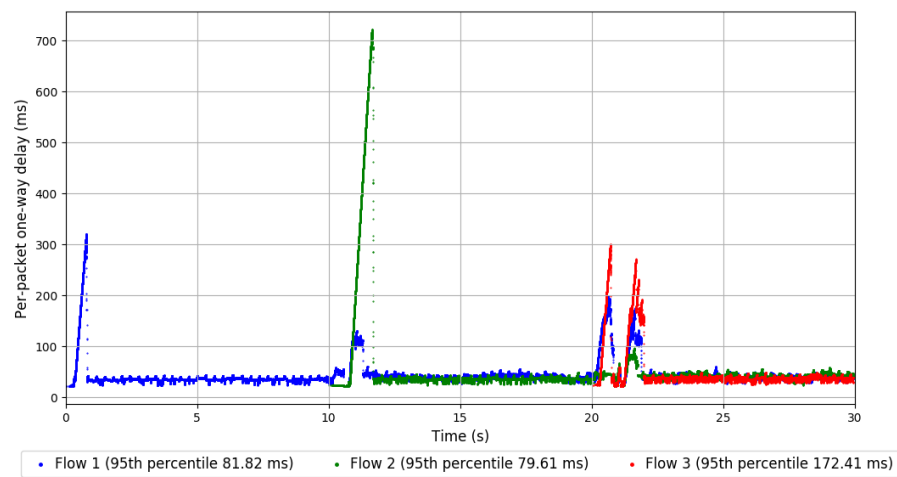
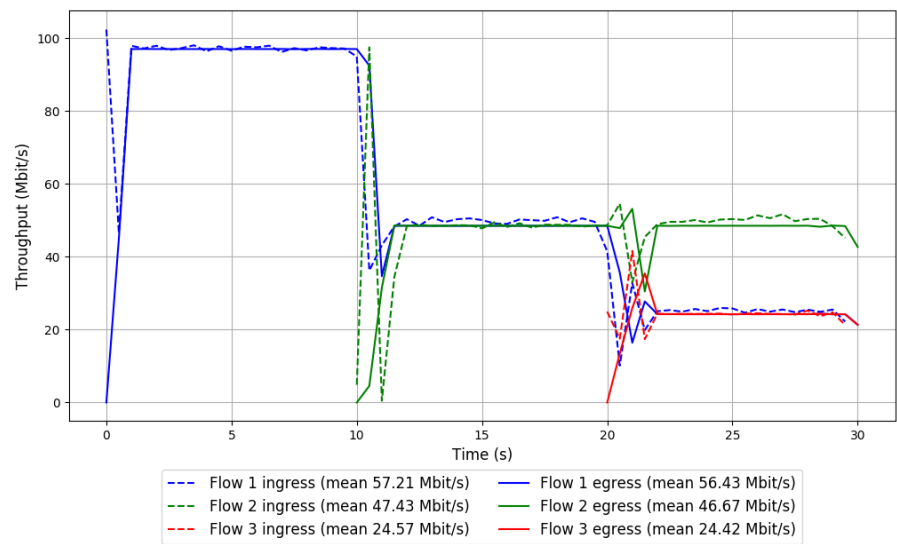


Run 3: Statistics of FillP-Sheep

Start at: 2018-09-25 17:47:31
End at: 2018-09-25 17:48:01
Local clock offset: 1.008 ms
Remote clock offset: -4.033 ms

Below is generated by plot.py at 2018-09-25 18:48:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 92.738 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 56.43 Mbit/s
95th percentile per-packet one-way delay: 81.822 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 46.67 Mbit/s
95th percentile per-packet one-way delay: 79.608 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 172.407 ms
Loss rate: 0.82%

Run 3: Report of FillP-Sheep — Data Link

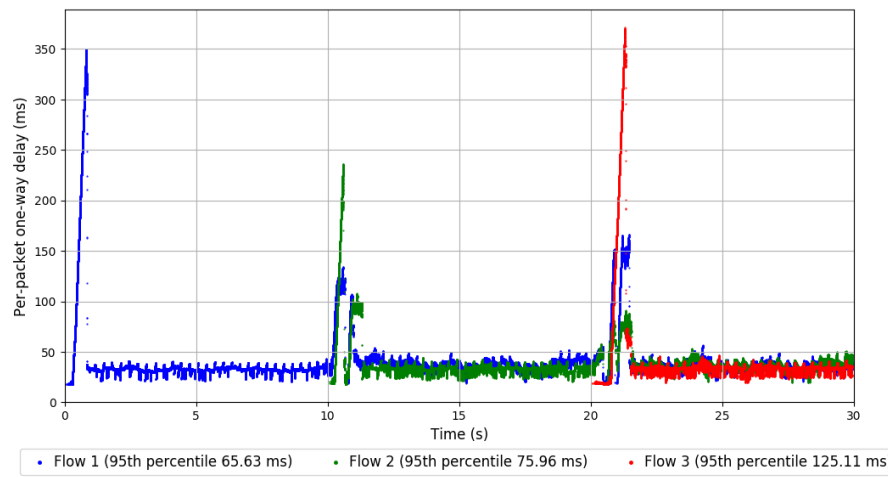
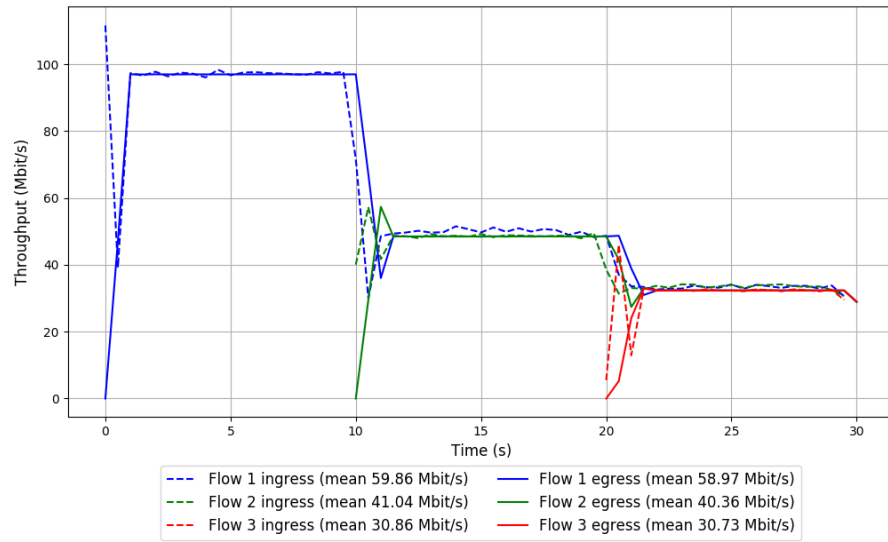


Run 4: Statistics of FillP-Sheep

Start at: 2018-09-25 18:12:31
End at: 2018-09-25 18:13:01
Local clock offset: 2.356 ms
Remote clock offset: -3.289 ms

Below is generated by plot.py at 2018-09-25 18:48:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 74.695 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 65.634 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 75.962 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 30.73 Mbit/s
95th percentile per-packet one-way delay: 125.111 ms
Loss rate: 0.69%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-09-25 18:37:00

End at: 2018-09-25 18:37:30

Local clock offset: 0.953 ms

Remote clock offset: -3.74 ms

Below is generated by plot.py at 2018-09-25 18:48:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 86.877 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 80.989 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 40.43 Mbit/s

95th percentile per-packet one-way delay: 88.279 ms

Loss rate: 1.64%

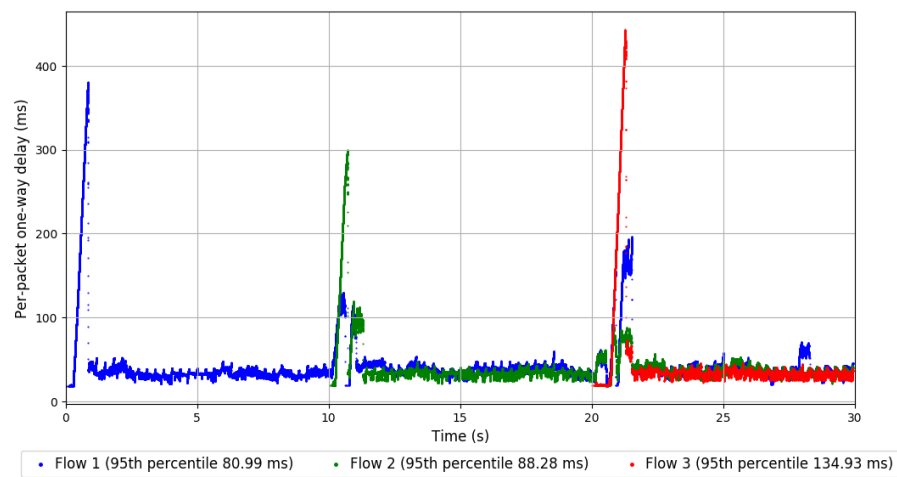
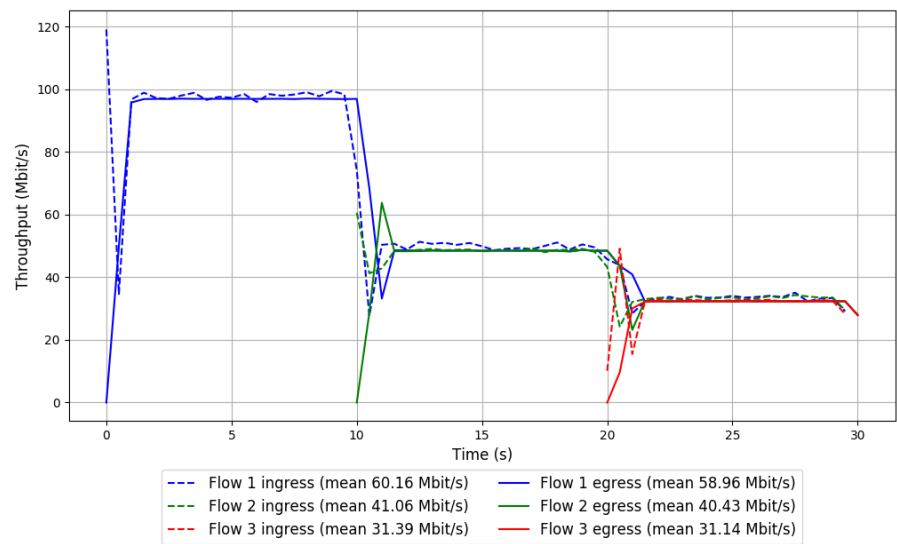
-- Flow 3:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 134.927 ms

Loss rate: 1.03%

Run 5: Report of FillP-Sheep — Data Link

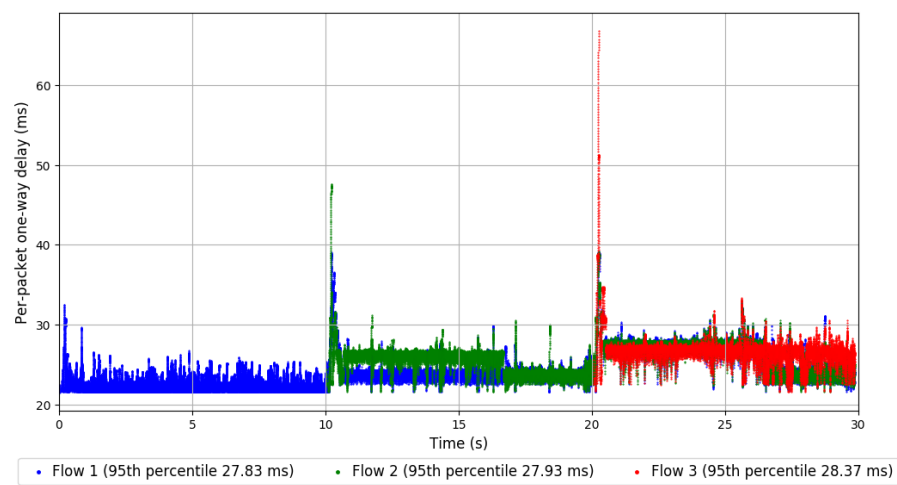
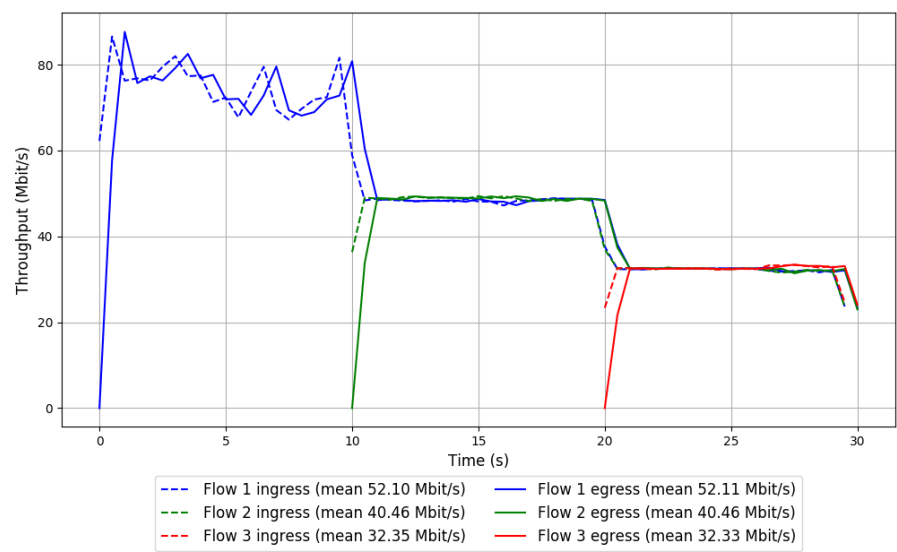


```
Run 1: Statistics of Indigo

Start at: 2018-09-25 16:40:56
End at: 2018-09-25 16:41:26
Local clock offset: 1.86 ms
Remote clock offset: -3.99 ms

# Below is generated by plot.py at 2018-09-25 18:48:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 27.875 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 52.11 Mbit/s
95th percentile per-packet one-way delay: 27.830 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 27.931 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 28.366 ms
Loss rate: 0.35%
```

Run 1: Report of Indigo — Data Link

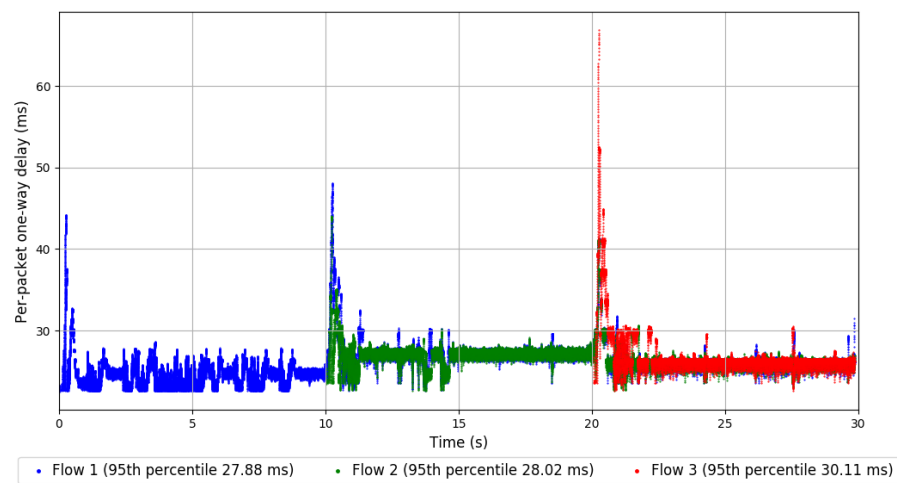
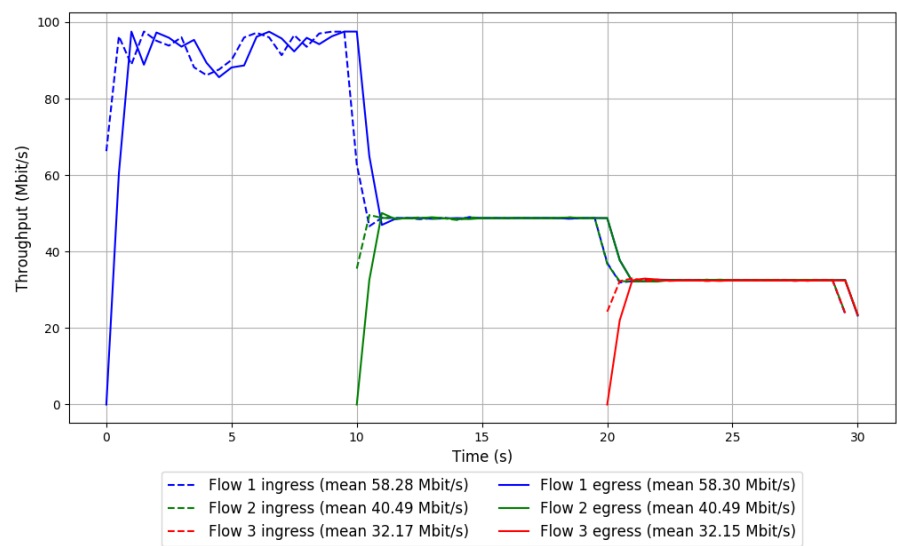


Run 2: Statistics of Indigo

Start at: 2018-09-25 17:07:18
End at: 2018-09-25 17:07:48
Local clock offset: 2.571 ms
Remote clock offset: -3.621 ms

Below is generated by plot.py at 2018-09-25 18:48:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 28.649 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 27.875 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 28.024 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 30.111 ms
Loss rate: 0.35%

Run 2: Report of Indigo — Data Link

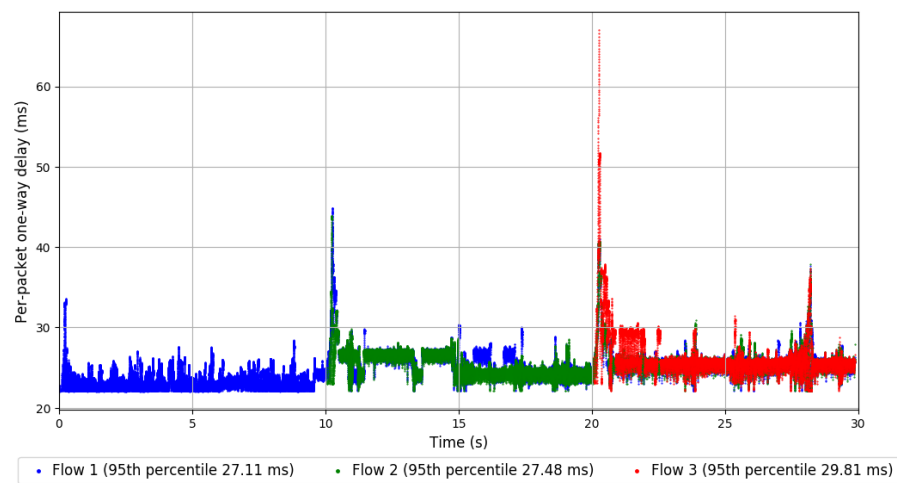
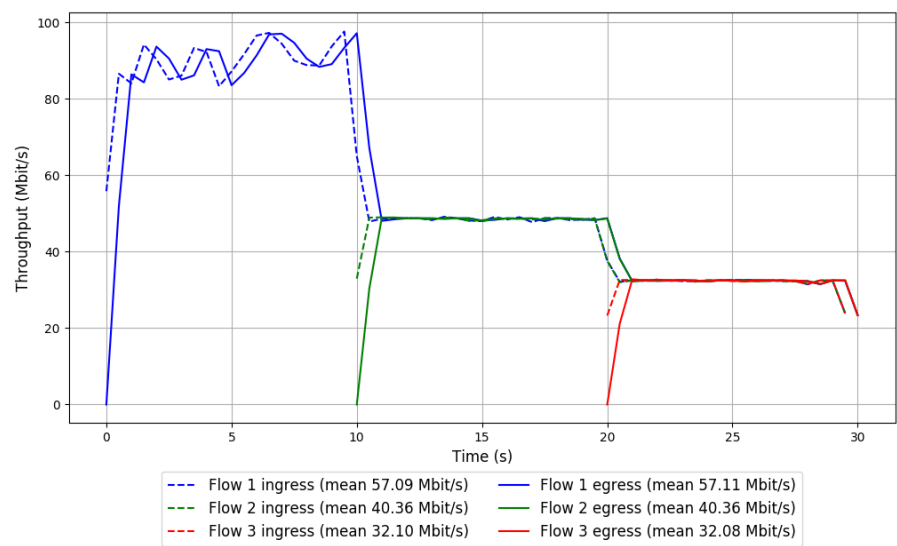


Run 3: Statistics of Indigo

Start at: 2018-09-25 17:32:42
End at: 2018-09-25 17:33:12
Local clock offset: -0.817 ms
Remote clock offset: -4.333 ms

Below is generated by plot.py at 2018-09-25 18:49:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 27.447 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 27.105 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 27.483 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.08 Mbit/s
95th percentile per-packet one-way delay: 29.814 ms
Loss rate: 0.35%

Run 3: Report of Indigo — Data Link

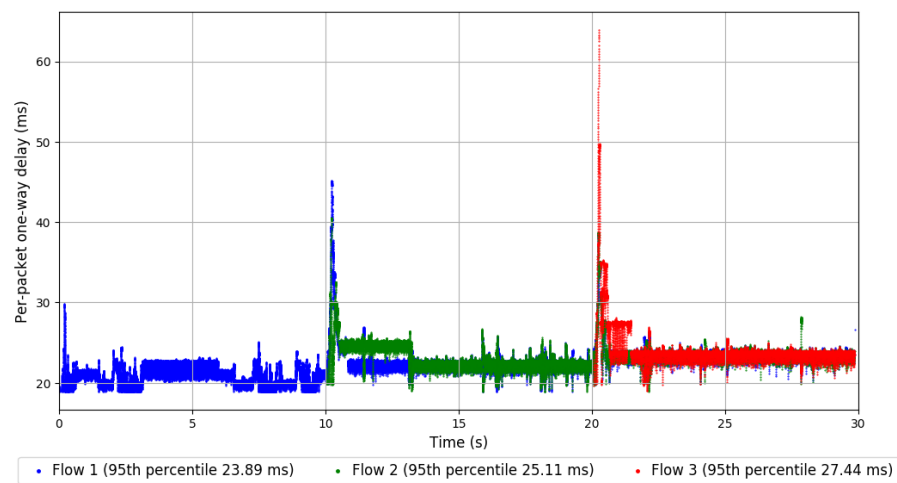
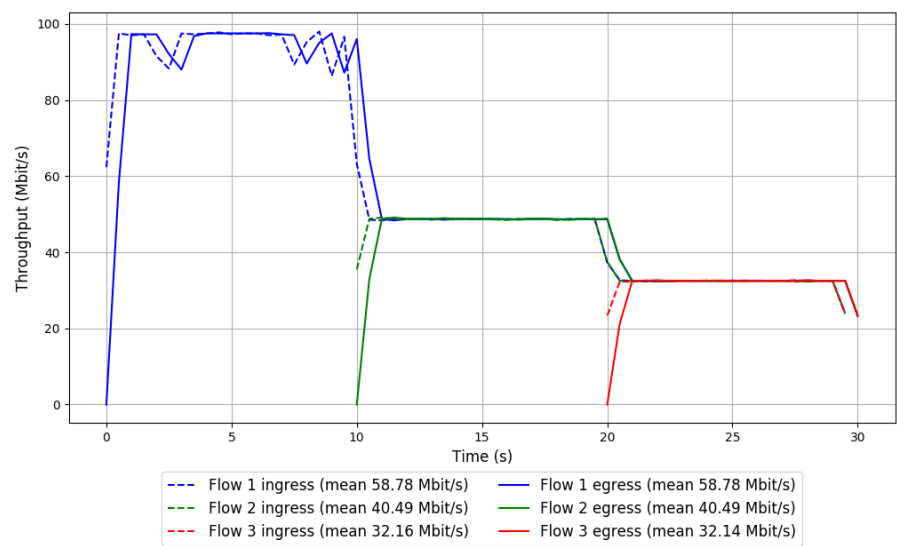


Run 4: Statistics of Indigo

Start at: 2018-09-25 17:58:15
End at: 2018-09-25 17:58:45
Local clock offset: -0.447 ms
Remote clock offset: -2.474 ms

Below is generated by plot.py at 2018-09-25 18:49:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 24.989 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: 23.885 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 25.108 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.14 Mbit/s
95th percentile per-packet one-way delay: 27.441 ms
Loss rate: 0.34%

Run 4: Report of Indigo — Data Link

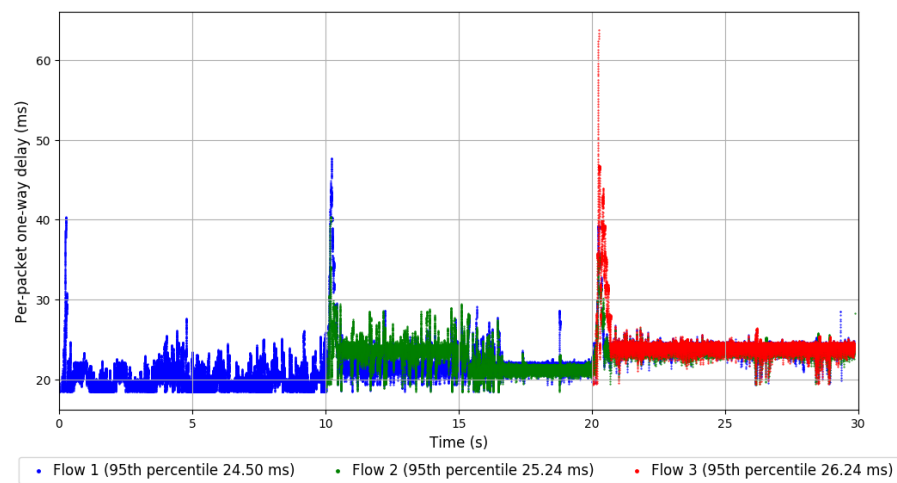
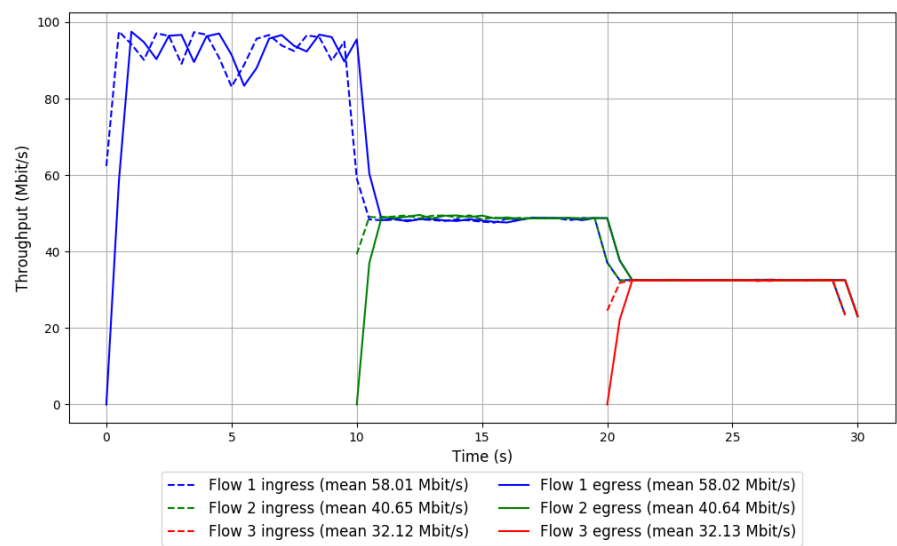


Run 5: Statistics of Indigo

Start at: 2018-09-25 18:23:09
End at: 2018-09-25 18:23:39
Local clock offset: 1.083 ms
Remote clock offset: -4.118 ms

Below is generated by plot.py at 2018-09-25 18:49:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 24.621 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 58.02 Mbit/s
95th percentile per-packet one-way delay: 24.496 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 25.243 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.13 Mbit/s
95th percentile per-packet one-way delay: 26.239 ms
Loss rate: 0.31%

Run 5: Report of Indigo — Data Link

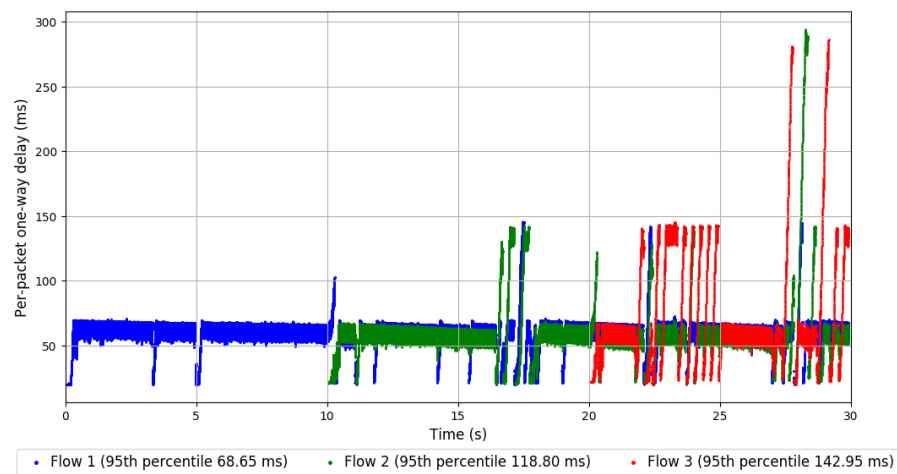
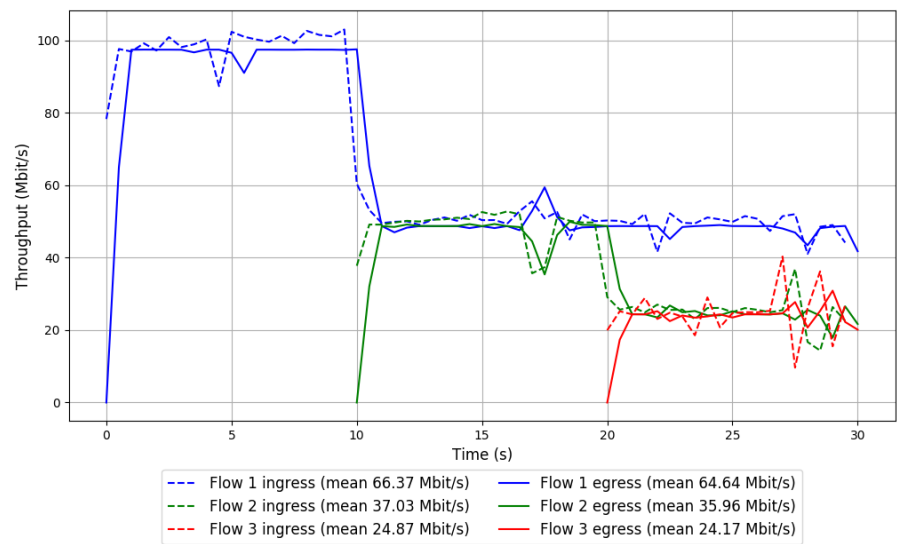


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-09-25 16:42:29
End at: 2018-09-25 16:42:59
Local clock offset: 0.903 ms
Remote clock offset: -3.325 ms

Below is generated by plot.py at 2018-09-25 18:49:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 84.552 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 68.646 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 118.796 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 142.953 ms
Loss rate: 3.14%

Run 1: Report of Indigo-96d2da3 — Data Link

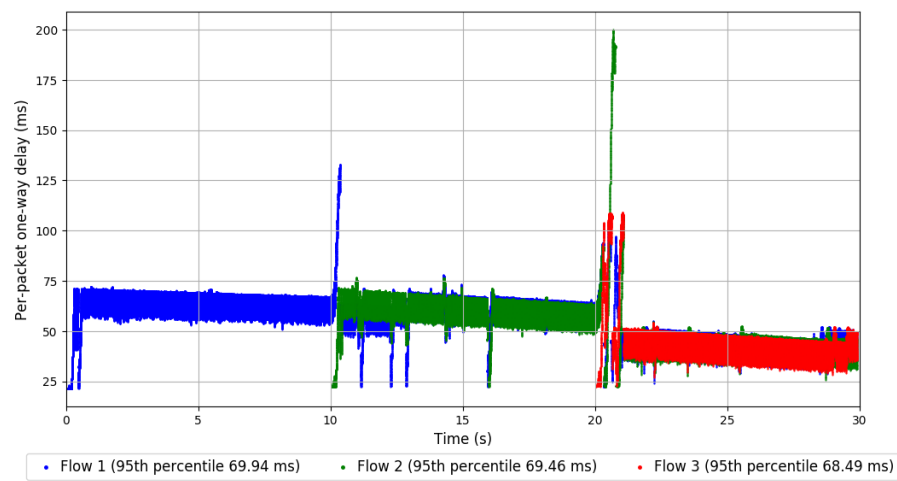
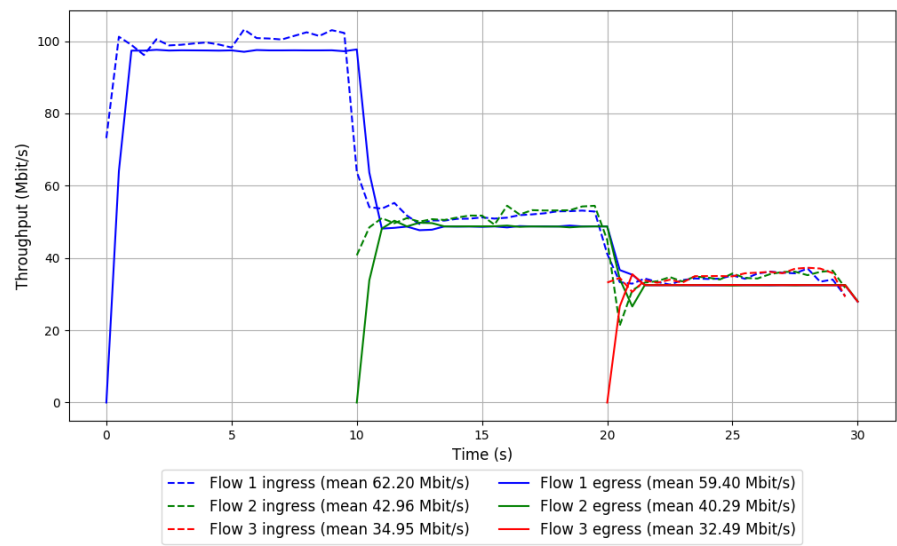


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-09-25 17:08:52
End at: 2018-09-25 17:09:22
Local clock offset: 1.043 ms
Remote clock offset: -4.011 ms

Below is generated by plot.py at 2018-09-25 18:49:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 69.870 ms
Loss rate: 5.35%
-- Flow 1:
Average throughput: 59.40 Mbit/s
95th percentile per-packet one-way delay: 69.943 ms
Loss rate: 4.56%
-- Flow 2:
Average throughput: 40.29 Mbit/s
95th percentile per-packet one-way delay: 69.463 ms
Loss rate: 6.33%
-- Flow 3:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 68.492 ms
Loss rate: 7.20%

Run 2: Report of Indigo-96d2da3 — Data Link

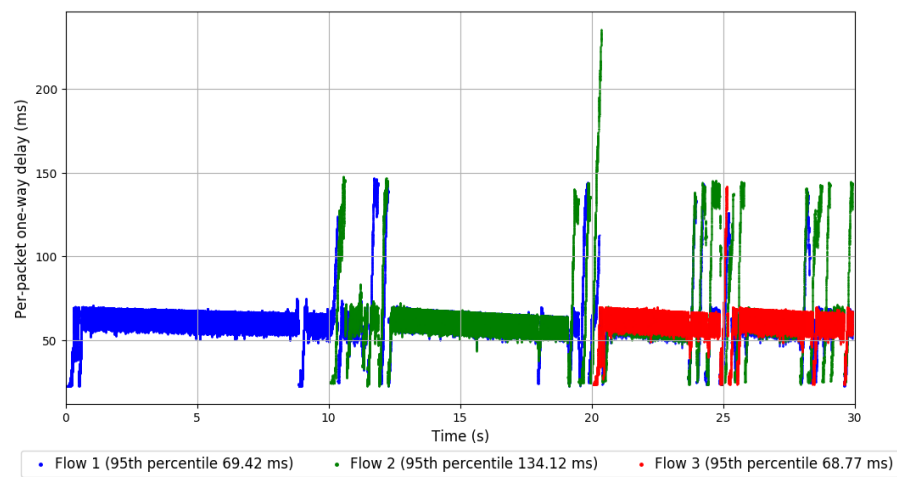
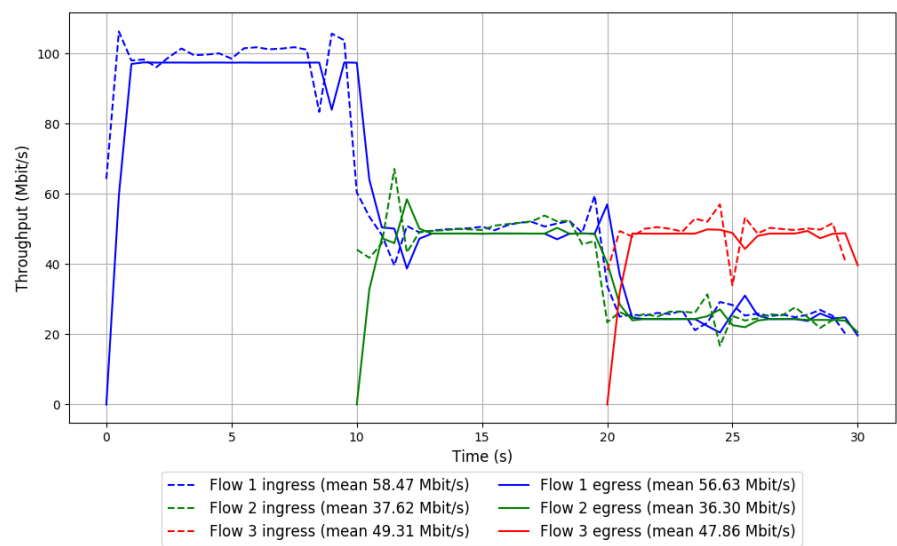


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-09-25 17:34:09
End at: 2018-09-25 17:34:39
Local clock offset: -0.137 ms
Remote clock offset: -4.297 ms

Below is generated by plot.py at 2018-09-25 18:49:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 94.863 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 56.63 Mbit/s
95th percentile per-packet one-way delay: 69.416 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 134.117 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 47.86 Mbit/s
95th percentile per-packet one-way delay: 68.770 ms
Loss rate: 3.18%

Run 3: Report of Indigo-96d2da3 — Data Link

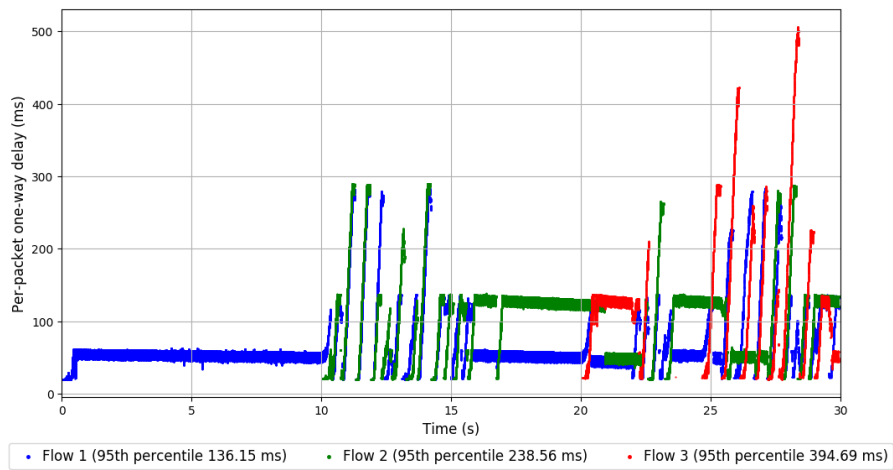
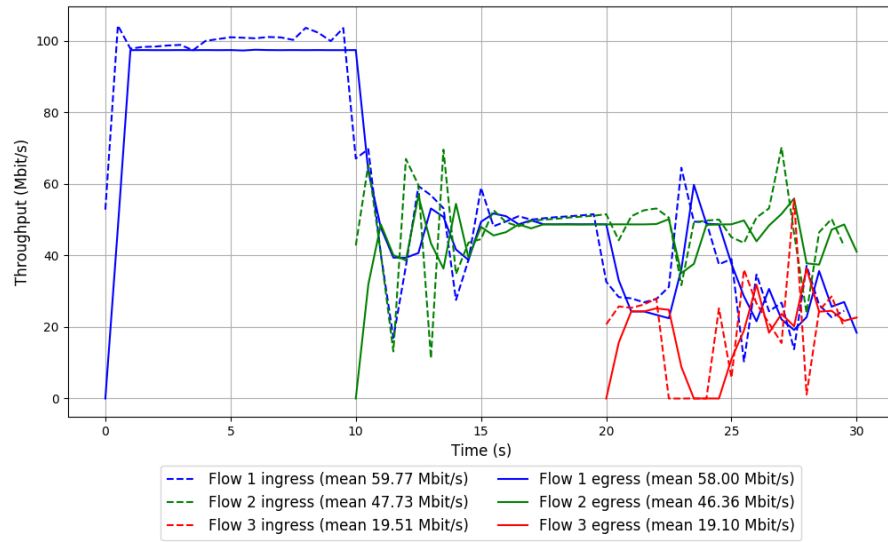


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-09-25 17:59:33
End at: 2018-09-25 18:00:03
Local clock offset: -0.295 ms
Remote clock offset: -3.506 ms

Below is generated by plot.py at 2018-09-25 18:49:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 218.818 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 136.148 ms
Loss rate: 3.05%
-- Flow 2:
Average throughput: 46.36 Mbit/s
95th percentile per-packet one-way delay: 238.559 ms
Loss rate: 3.01%
-- Flow 3:
Average throughput: 19.10 Mbit/s
95th percentile per-packet one-way delay: 394.685 ms
Loss rate: 2.39%

Run 4: Report of Indigo-96d2da3 — Data Link

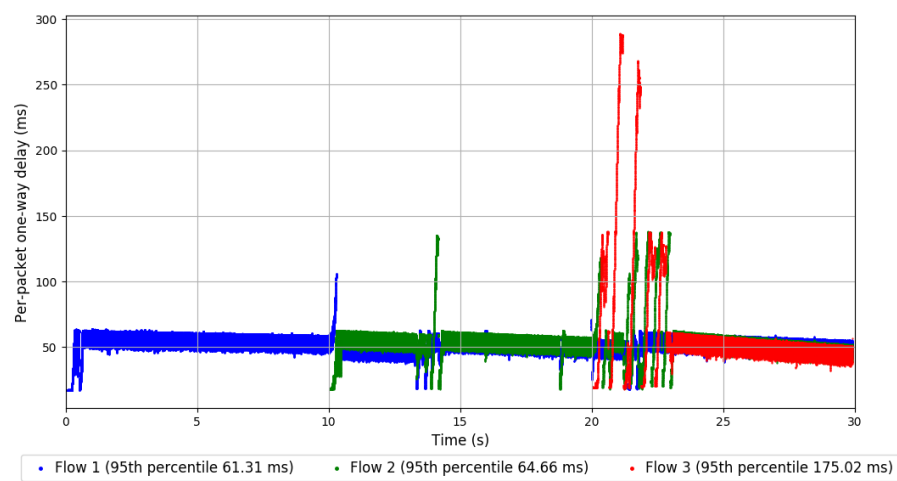
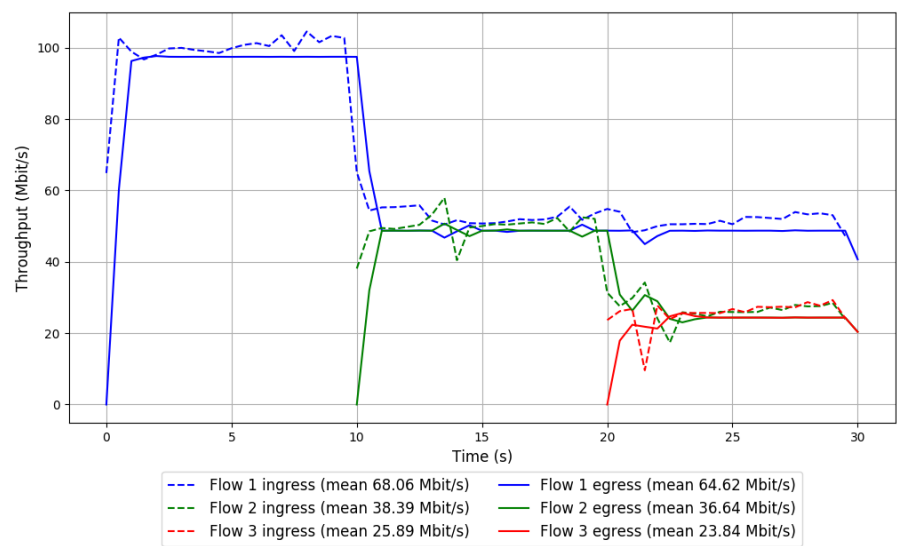


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-09-25 18:24:25
End at: 2018-09-25 18:24:55
Local clock offset: 0.066 ms
Remote clock offset: -3.682 ms

Below is generated by plot.py at 2018-09-25 18:49:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 61.790 ms
Loss rate: 5.27%
-- Flow 1:
Average throughput: 64.62 Mbit/s
95th percentile per-packet one-way delay: 61.306 ms
Loss rate: 5.15%
-- Flow 2:
Average throughput: 36.64 Mbit/s
95th percentile per-packet one-way delay: 64.659 ms
Loss rate: 4.65%
-- Flow 3:
Average throughput: 23.84 Mbit/s
95th percentile per-packet one-way delay: 175.024 ms
Loss rate: 8.02%

Run 5: Report of Indigo-96d2da3 — Data Link

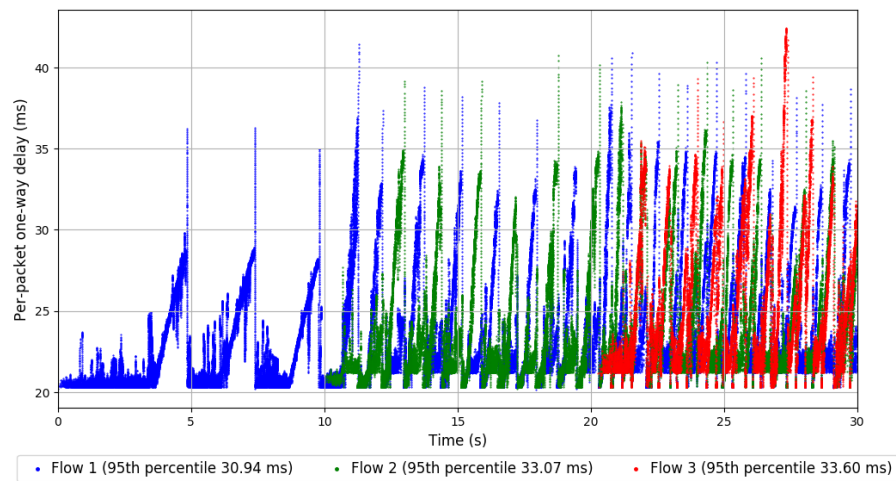
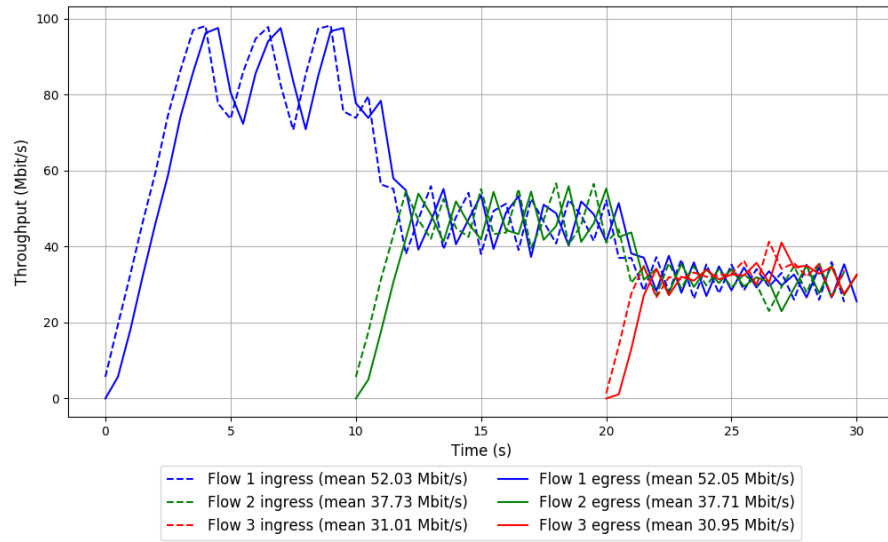


```
Run 1: Statistics of LEDBAT

Start at: 2018-09-25 16:45:47
End at: 2018-09-25 16:46:17
Local clock offset: -0.279 ms
Remote clock offset: -4.627 ms

# Below is generated by plot.py at 2018-09-25 18:50:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.17 Mbit/s
95th percentile per-packet one-way delay: 32.160 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 52.05 Mbit/s
95th percentile per-packet one-way delay: 30.943 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 33.069 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 33.605 ms
Loss rate: 0.48%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-09-25 17:11:29

End at: 2018-09-25 17:11:59

Local clock offset: 2.78 ms

Remote clock offset: -3.51 ms

Below is generated by plot.py at 2018-09-25 18:50:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.82 Mbit/s

95th percentile per-packet one-way delay: 34.886 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 33.631 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 36.171 ms

Loss rate: 0.12%

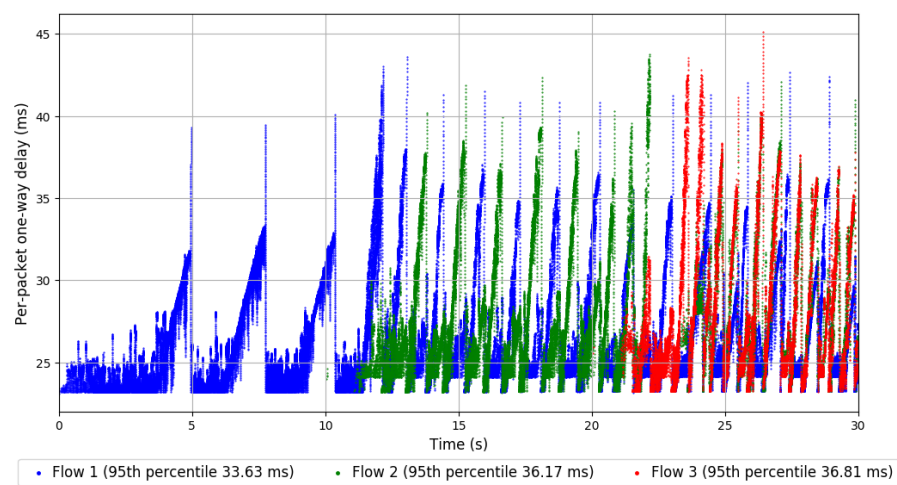
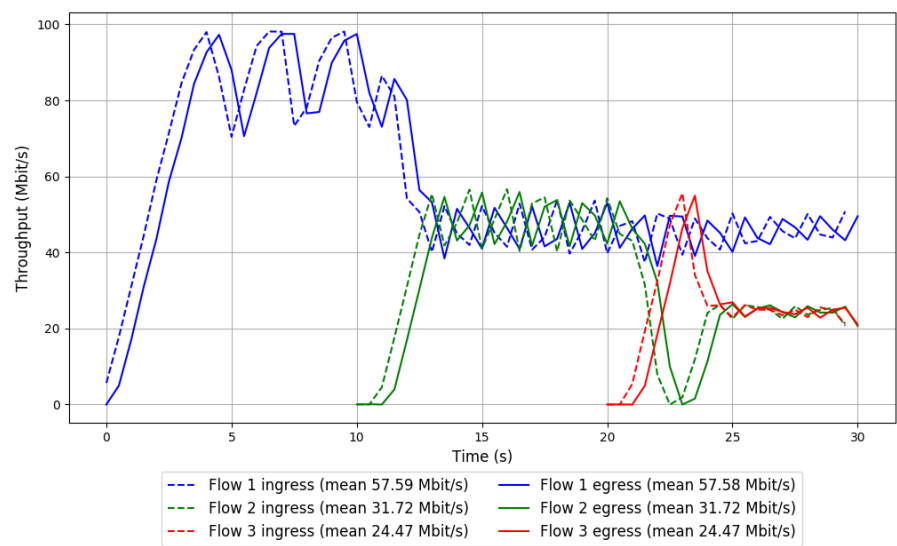
-- Flow 3:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 36.806 ms

Loss rate: 0.30%

Run 2: Report of LEDBAT — Data Link

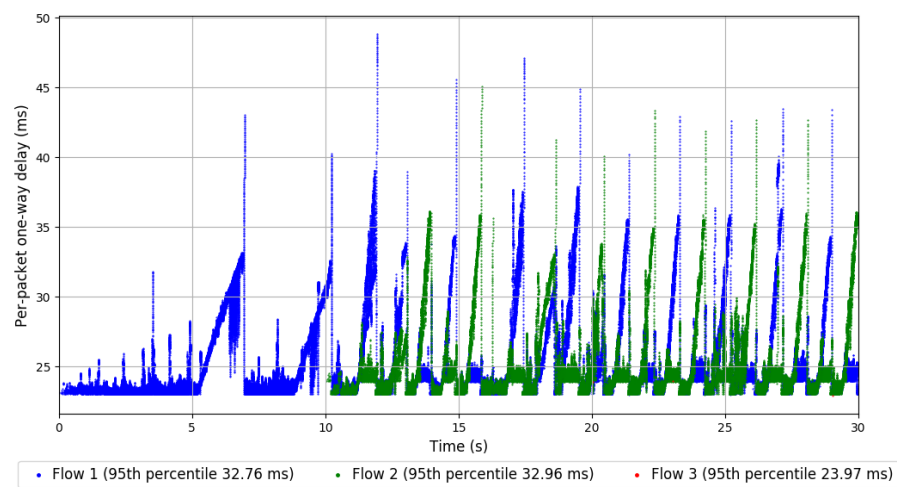
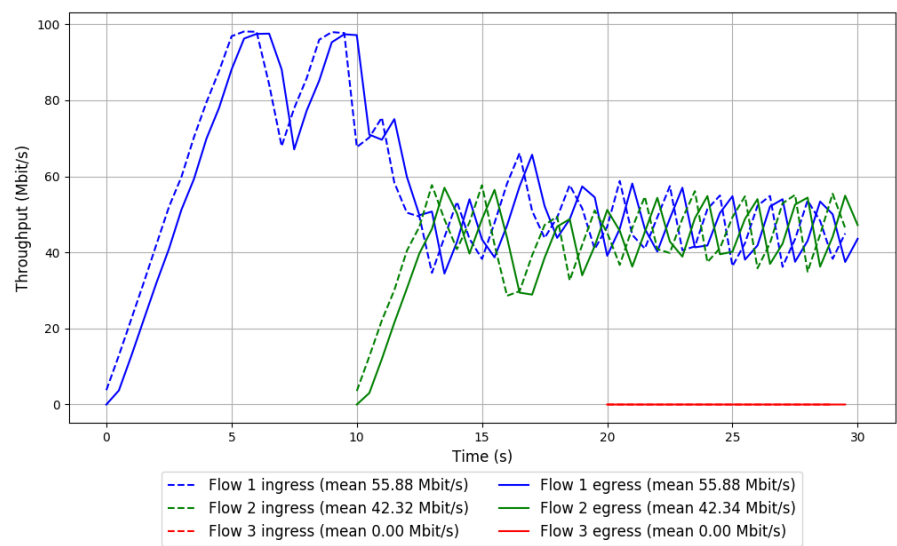


Run 3: Statistics of LEDBAT

Start at: 2018-09-25 17:36:50
End at: 2018-09-25 17:37:20
Local clock offset: 0.908 ms
Remote clock offset: -3.485 ms

Below is generated by plot.py at 2018-09-25 18:50:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.03 Mbit/s
95th percentile per-packet one-way delay: 32.828 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 55.88 Mbit/s
95th percentile per-packet one-way delay: 32.762 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 42.34 Mbit/s
95th percentile per-packet one-way delay: 32.960 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 23.966 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

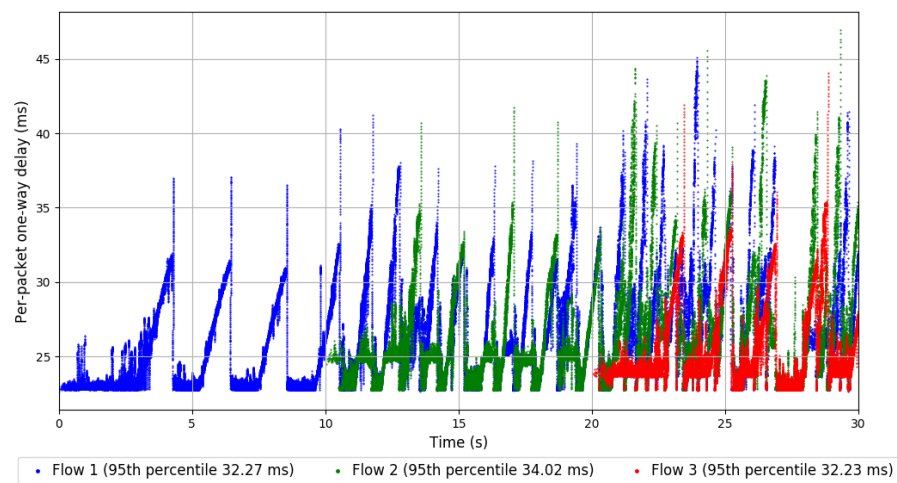
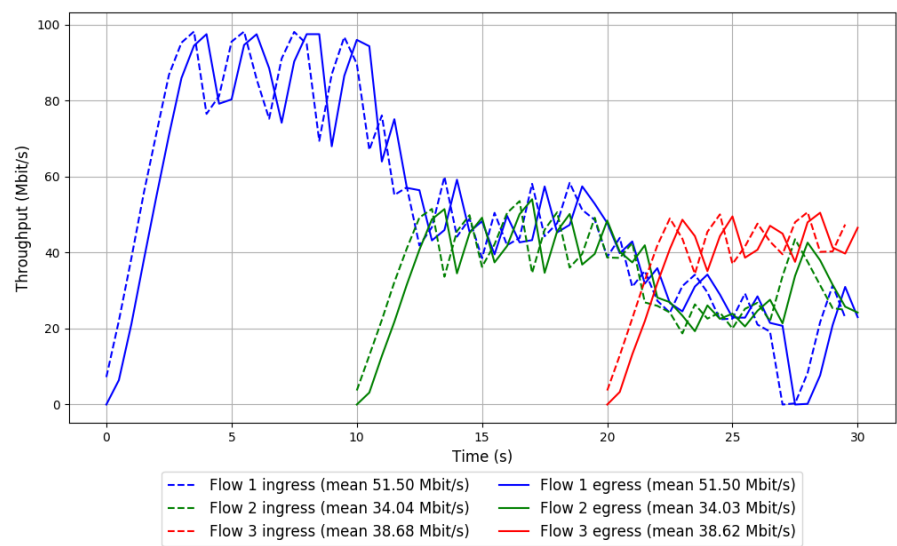


Run 4: Statistics of LEDBAT

Start at: 2018-09-25 18:02:09
End at: 2018-09-25 18:02:39
Local clock offset: 3.746 ms
Remote clock offset: -3.562 ms

Below is generated by plot.py at 2018-09-25 18:50:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.97 Mbit/s
95th percentile per-packet one-way delay: 32.683 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 51.50 Mbit/s
95th percentile per-packet one-way delay: 32.265 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 34.03 Mbit/s
95th percentile per-packet one-way delay: 34.020 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 32.228 ms
Loss rate: 0.42%

Run 4: Report of LEDBAT — Data Link

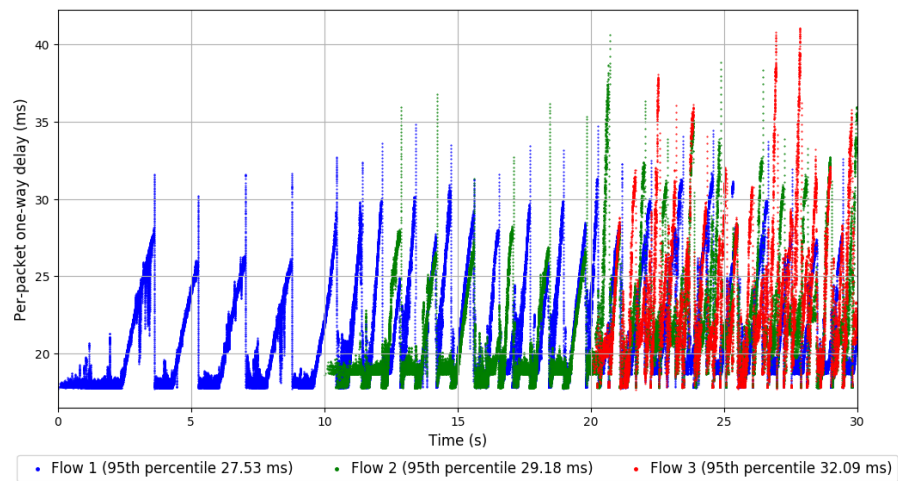
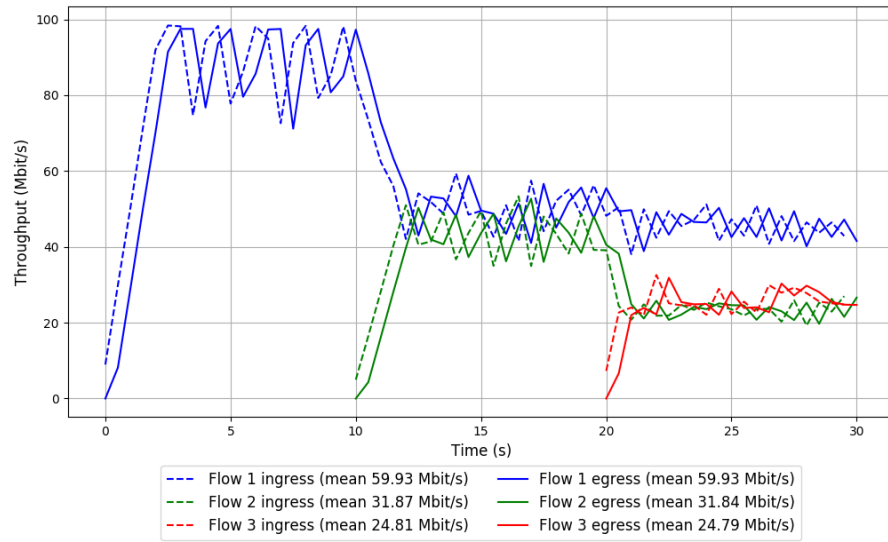


Run 5: Statistics of LEDBAT

Start at: 2018-09-25 18:26:54
End at: 2018-09-25 18:27:24
Local clock offset: 1.432 ms
Remote clock offset: -3.008 ms

Below is generated by plot.py at 2018-09-25 18:50:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 28.310 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 27.529 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 29.184 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 32.088 ms
Loss rate: 0.35%

Run 5: Report of LEDBAT — Data Link

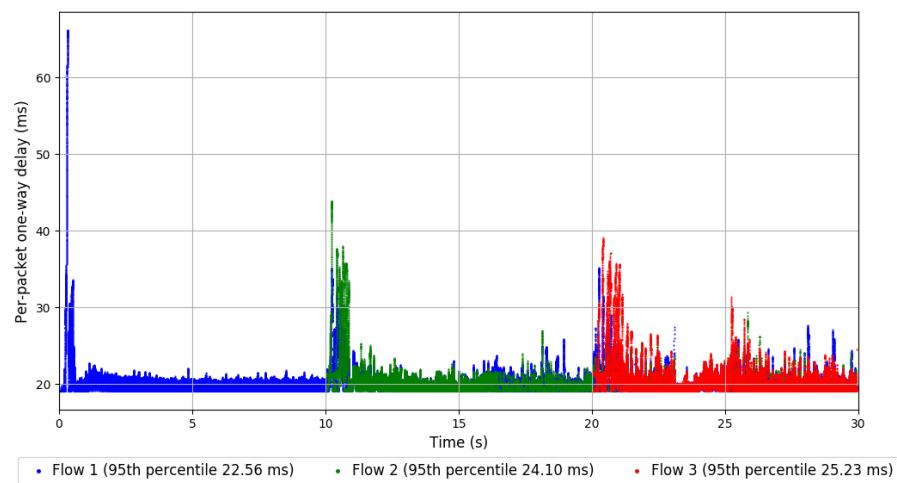
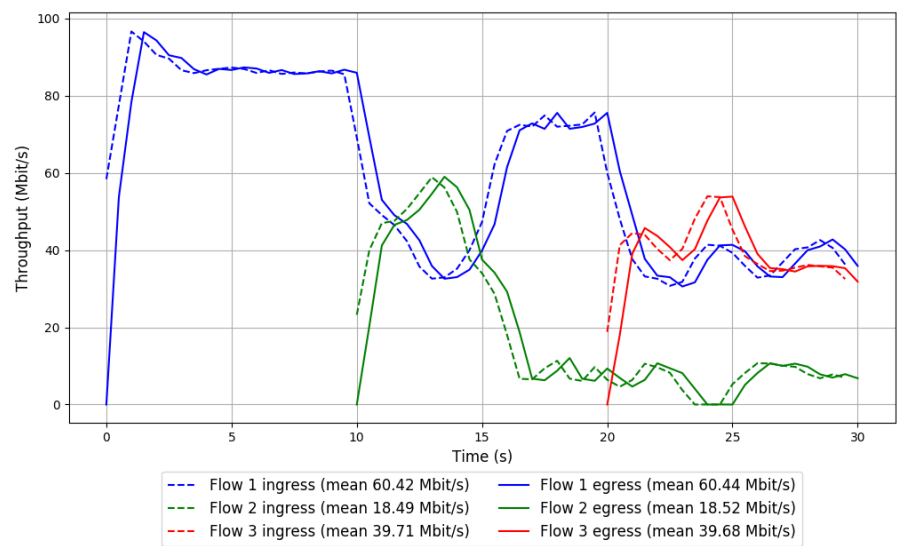


Run 1: Statistics of Indigo-Muses

Start at: 2018-09-25 16:44:01
End at: 2018-09-25 16:44:31
Local clock offset: -0.161 ms
Remote clock offset: -3.403 ms

Below is generated by plot.py at 2018-09-25 18:50:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.86 Mbit/s
95th percentile per-packet one-way delay: 23.133 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: 22.557 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 18.52 Mbit/s
95th percentile per-packet one-way delay: 24.102 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 25.235 ms
Loss rate: 0.30%

Run 1: Report of Indigo-Muses — Data Link

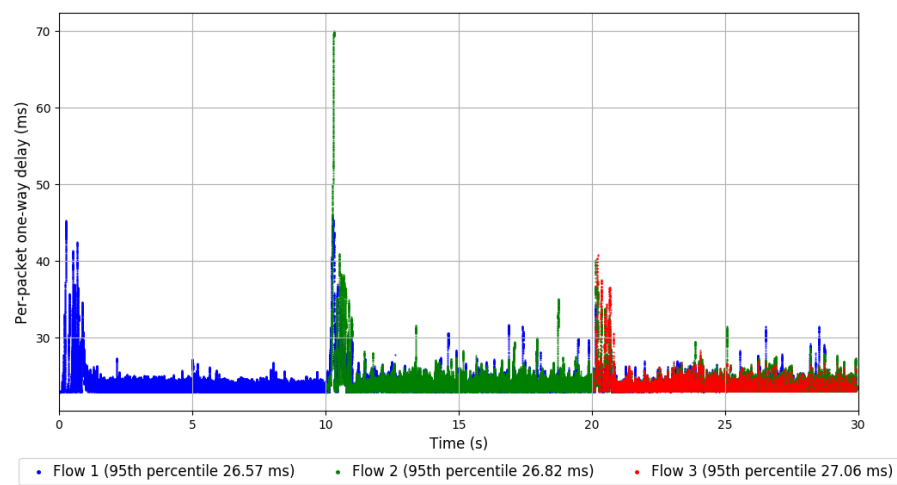
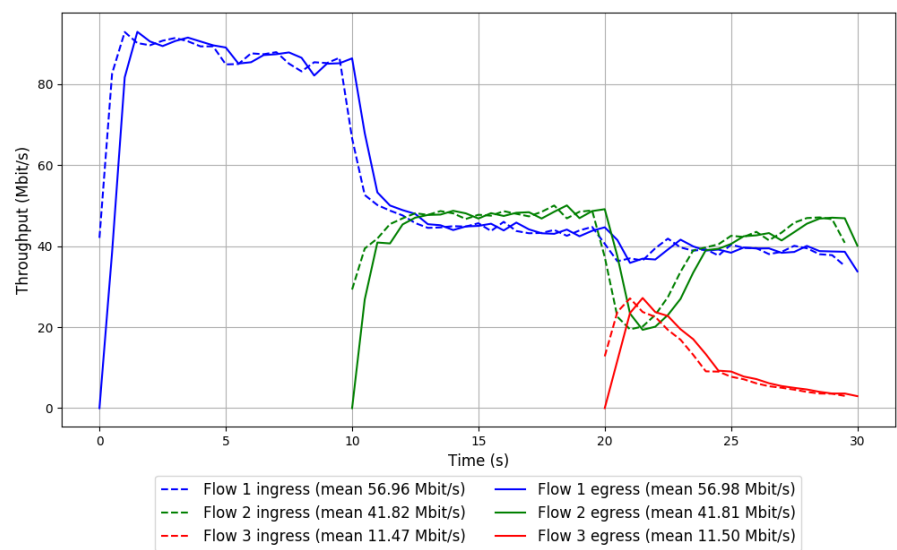


Run 2: Statistics of Indigo-Muses

Start at: 2018-09-25 17:10:12
End at: 2018-09-25 17:10:42
Local clock offset: 2.264 ms
Remote clock offset: -3.994 ms

Below is generated by plot.py at 2018-09-25 18:50:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.60 Mbit/s
95th percentile per-packet one-way delay: 26.672 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 56.98 Mbit/s
95th percentile per-packet one-way delay: 26.566 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 41.81 Mbit/s
95th percentile per-packet one-way delay: 26.819 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 27.064 ms
Loss rate: 0.09%

Run 2: Report of Indigo-Muses — Data Link



Run 3: Statistics of Indigo-Muses

Start at: 2018-09-25 17:35:31

End at: 2018-09-25 17:36:01

Local clock offset: 0.553 ms

Remote clock offset: -3.69 ms

Below is generated by plot.py at 2018-09-25 18:51:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 27.085 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 27.244 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 27.078 ms

Loss rate: 0.13%

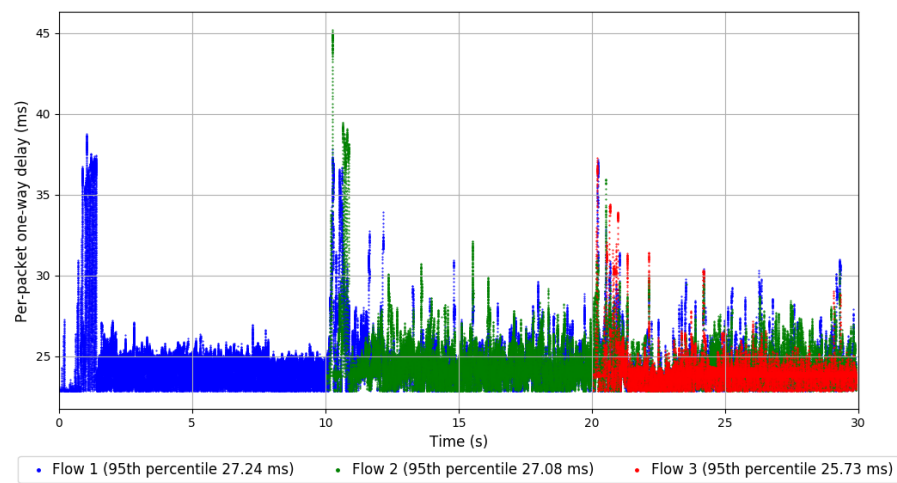
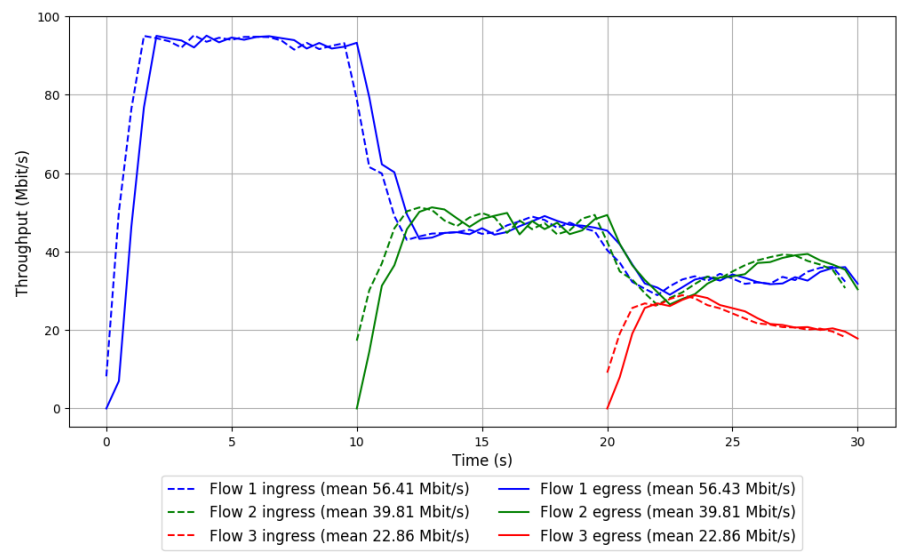
-- Flow 3:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 25.730 ms

Loss rate: 0.30%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-09-25 18:00:51

End at: 2018-09-25 18:01:21

Local clock offset: 2.691 ms

Remote clock offset: -3.55 ms

Below is generated by plot.py at 2018-09-25 18:51:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.59 Mbit/s

95th percentile per-packet one-way delay: 26.993 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 53.78 Mbit/s

95th percentile per-packet one-way delay: 26.050 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 41.40 Mbit/s

95th percentile per-packet one-way delay: 27.666 ms

Loss rate: 0.15%

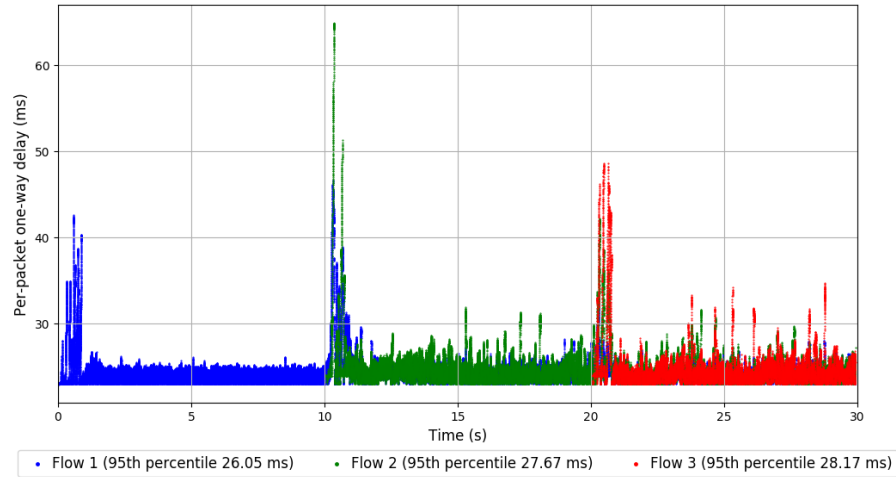
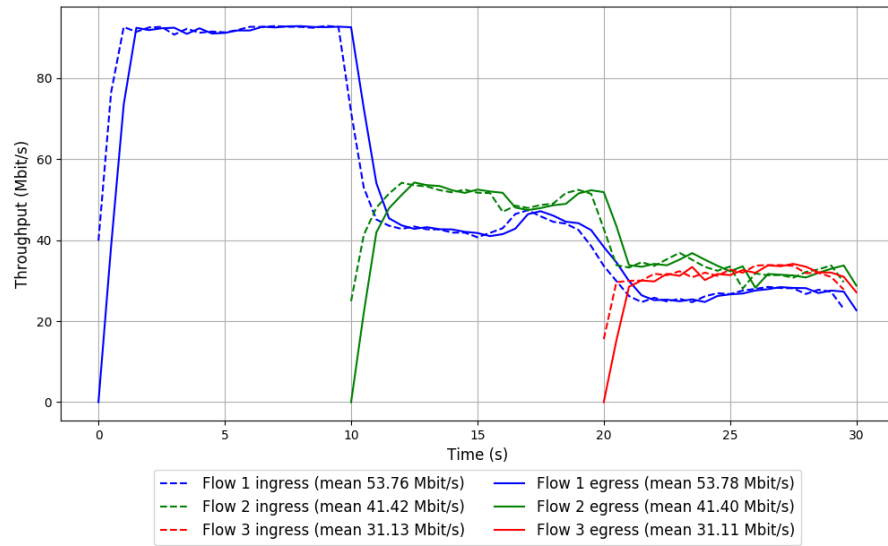
-- Flow 3:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 28.167 ms

Loss rate: 0.36%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-09-25 18:25:42

End at: 2018-09-25 18:26:12

Local clock offset: 1.453 ms

Remote clock offset: -3.59 ms

Below is generated by plot.py at 2018-09-25 18:51:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 20.637 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 37.55 Mbit/s

95th percentile per-packet one-way delay: 20.271 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 20.796 ms

Loss rate: 0.12%

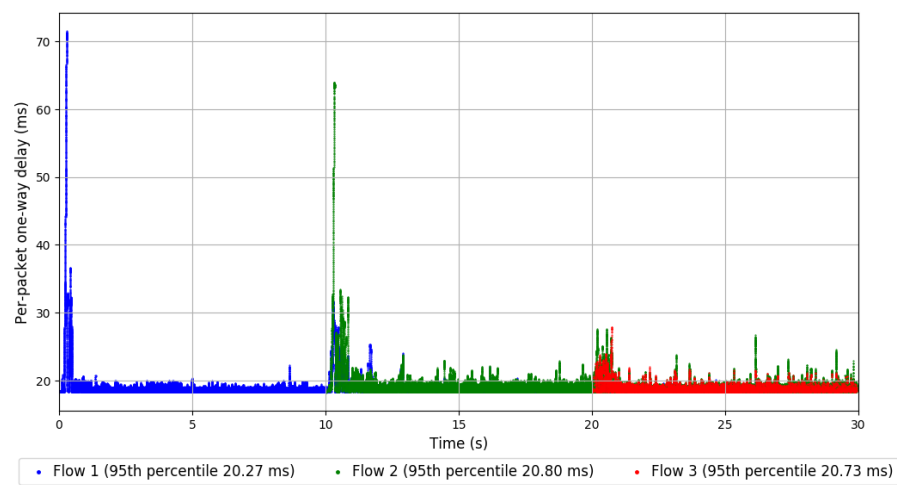
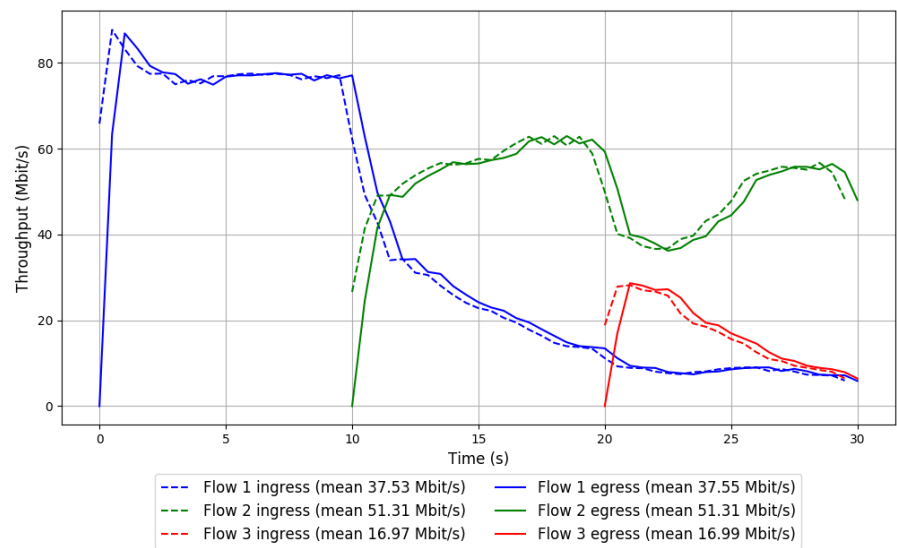
-- Flow 3:

Average throughput: 16.99 Mbit/s

95th percentile per-packet one-way delay: 20.729 ms

Loss rate: 0.11%

Run 5: Report of Indigo-Muses — Data Link

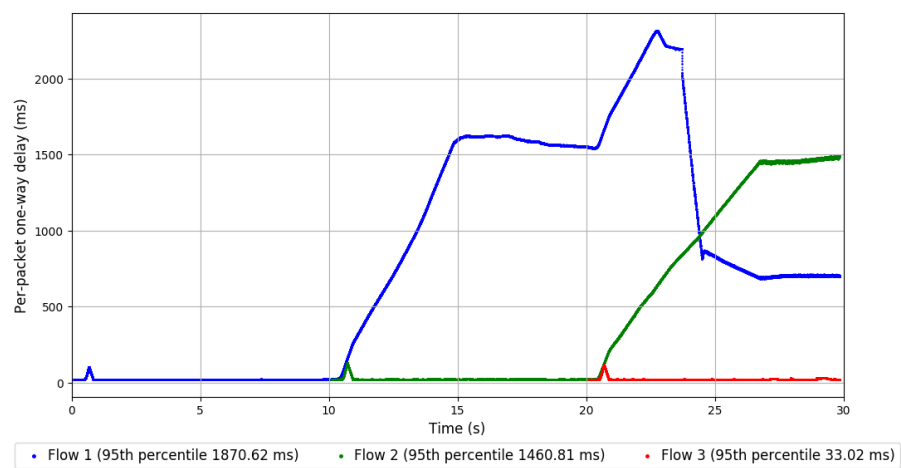
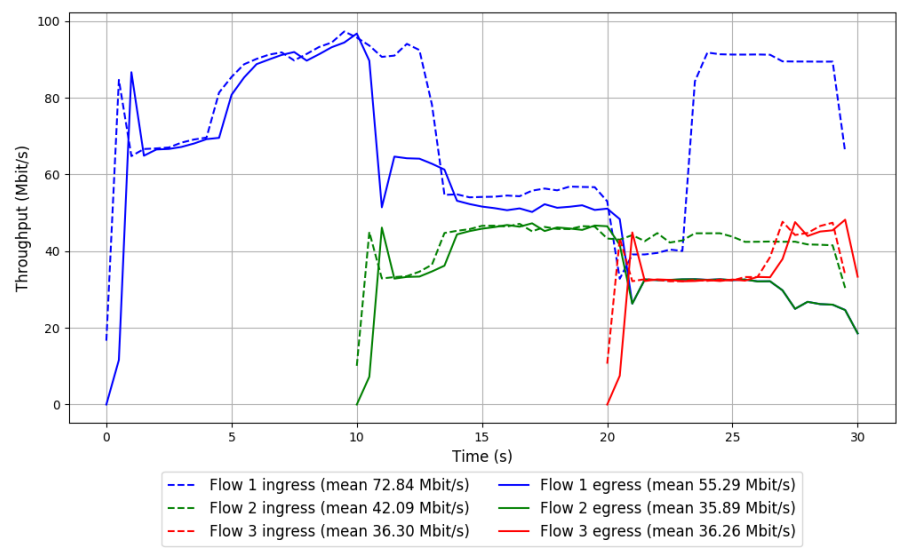


Run 1: Statistics of PCC-Allegro

Start at: 2018-09-25 16:53:46
End at: 2018-09-25 16:54:16
Local clock offset: 2.766 ms
Remote clock offset: -3.377 ms

Below is generated by plot.py at 2018-09-25 18:51:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 1622.988 ms
Loss rate: 19.35%
-- Flow 1:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 1870.616 ms
Loss rate: 24.18%
-- Flow 2:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 1460.814 ms
Loss rate: 14.84%
-- Flow 3:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 33.019 ms
Loss rate: 0.42%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-09-25 17:19:17

End at: 2018-09-25 17:19:47

Local clock offset: -0.77 ms

Remote clock offset: -4.01 ms

Below is generated by plot.py at 2018-09-25 18:51:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 21.265 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 20.983 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.45 Mbit/s

95th percentile per-packet one-way delay: 21.256 ms

Loss rate: 0.30%

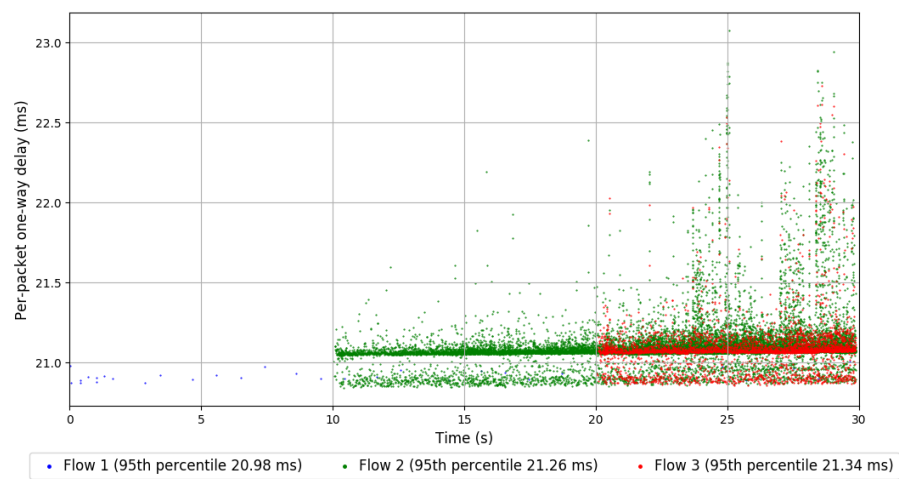
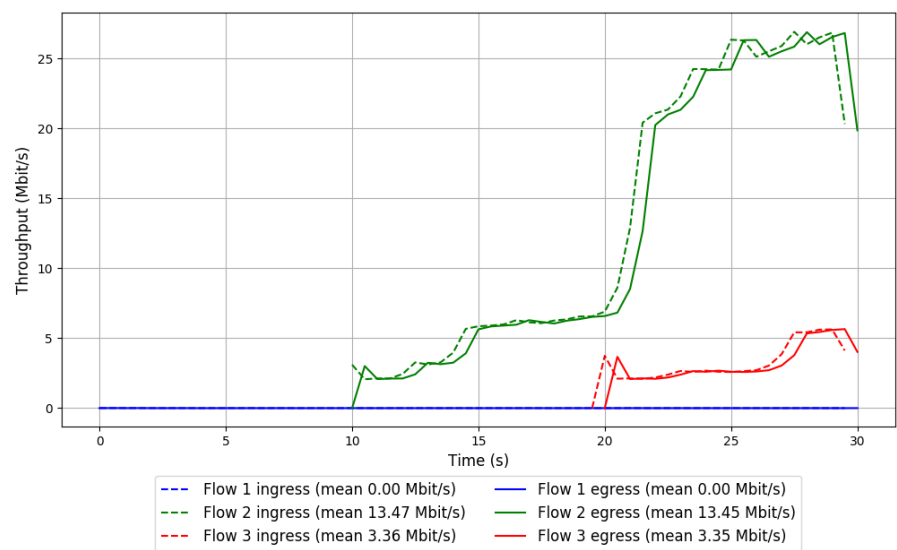
-- Flow 3:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 21.337 ms

Loss rate: 0.51%

Run 2: Report of PCC-Allegro — Data Link

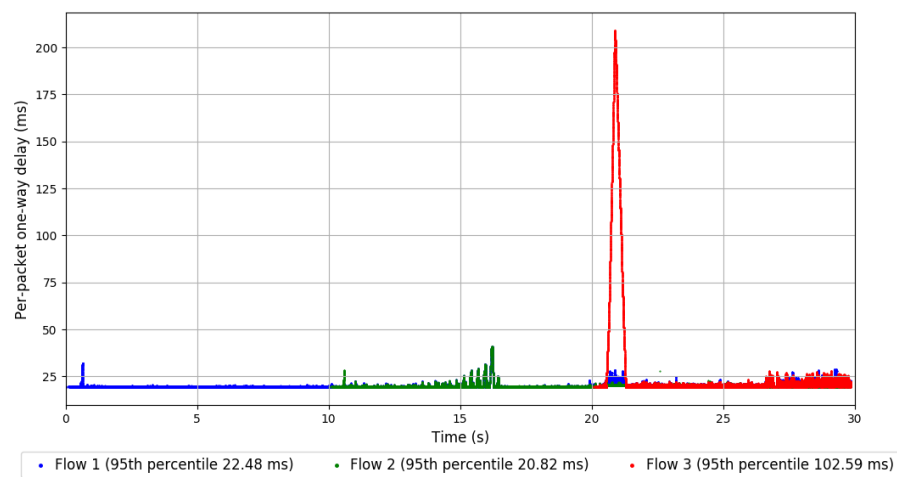
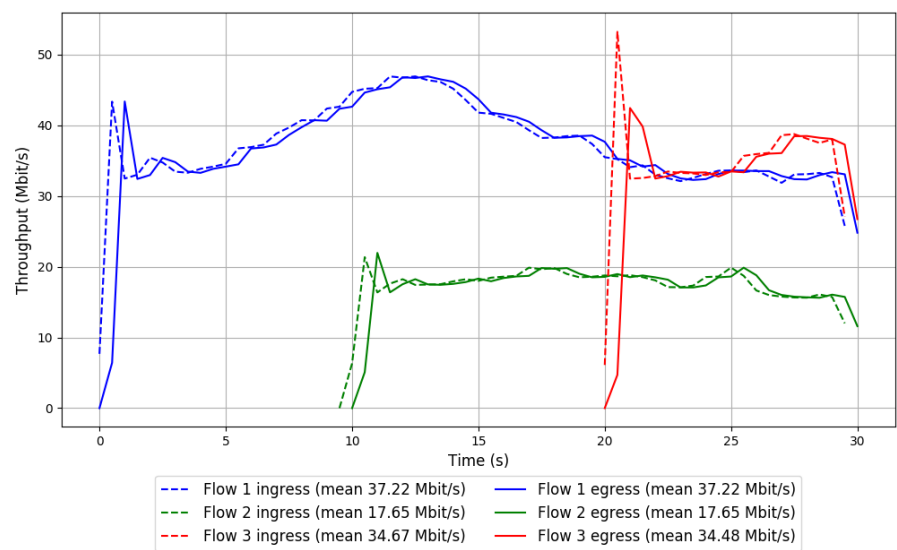


Run 3: Statistics of PCC-Allegro

Start at: 2018-09-25 17:44:47
End at: 2018-09-25 17:45:17
Local clock offset: -1.737 ms
Remote clock offset: -3.421 ms

Below is generated by plot.py at 2018-09-25 18:51:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.30 Mbit/s
95th percentile per-packet one-way delay: 23.643 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 37.22 Mbit/s
95th percentile per-packet one-way delay: 22.475 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 17.65 Mbit/s
95th percentile per-packet one-way delay: 20.824 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 102.592 ms
Loss rate: 0.84%

Run 3: Report of PCC-Allegro — Data Link

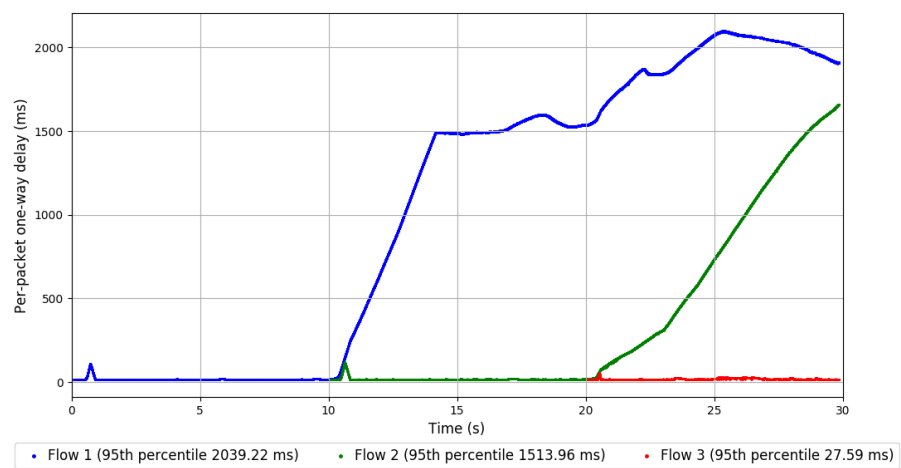
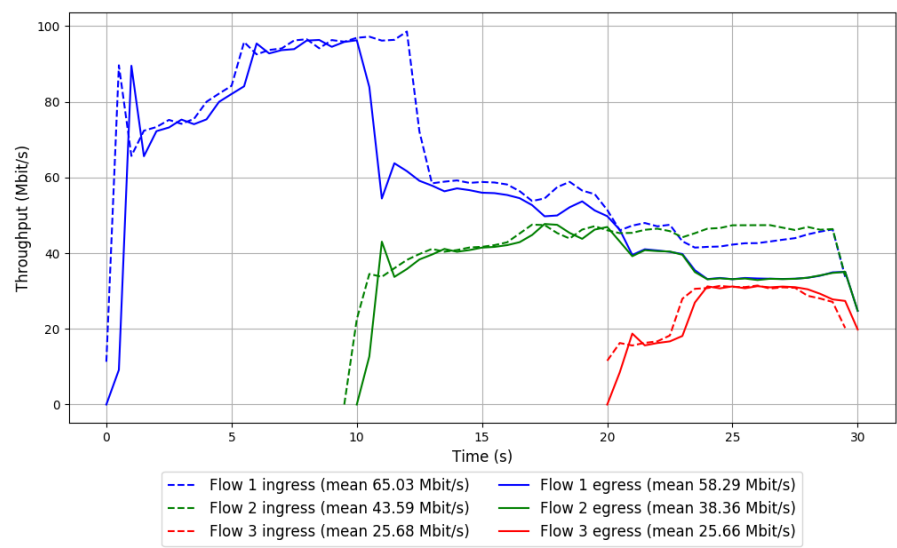


Run 4: Statistics of PCC-Allegro

Start at: 2018-09-25 18:10:01
End at: 2018-09-25 18:10:31
Local clock offset: 0.111 ms
Remote clock offset: -4.034 ms

Below is generated by plot.py at 2018-09-25 18:51:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 1993.245 ms
Loss rate: 10.07%
-- Flow 1:
Average throughput: 58.29 Mbit/s
95th percentile per-packet one-way delay: 2039.220 ms
Loss rate: 10.43%
-- Flow 2:
Average throughput: 38.36 Mbit/s
95th percentile per-packet one-way delay: 1513.958 ms
Loss rate: 12.09%
-- Flow 3:
Average throughput: 25.66 Mbit/s
95th percentile per-packet one-way delay: 27.587 ms
Loss rate: 0.30%

Run 4: Report of PCC-Allegro — Data Link

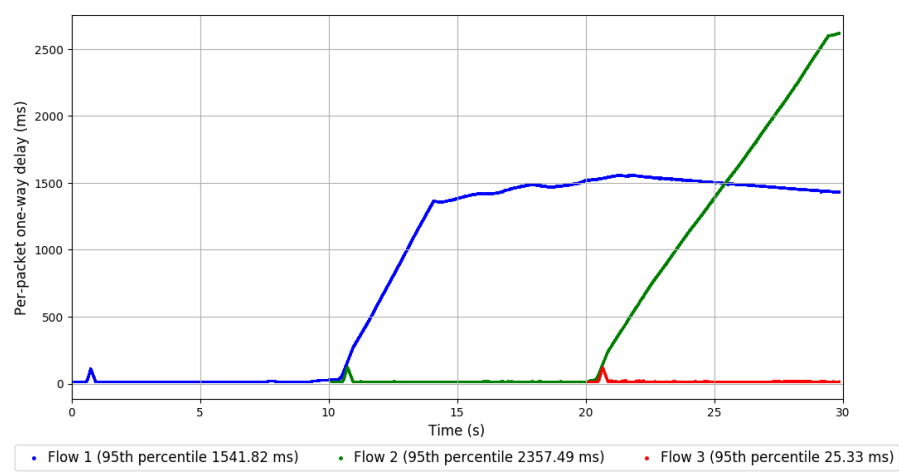
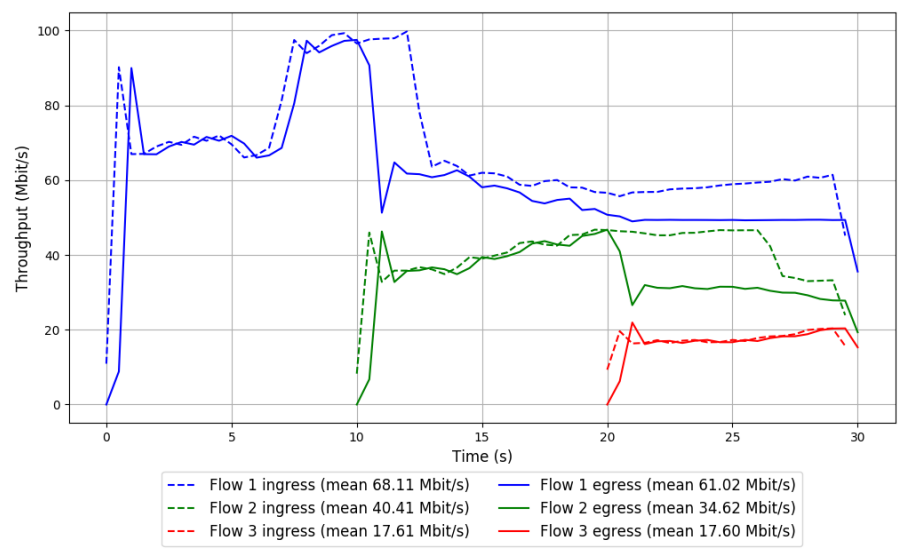


Run 5: Statistics of PCC-Allegro

Start at: 2018-09-25 18:34:23
End at: 2018-09-25 18:34:53
Local clock offset: -0.851 ms
Remote clock offset: -3.359 ms

Below is generated by plot.py at 2018-09-25 18:51:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 1557.769 ms
Loss rate: 10.97%
-- Flow 1:
Average throughput: 61.02 Mbit/s
95th percentile per-packet one-way delay: 1541.820 ms
Loss rate: 10.49%
-- Flow 2:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 2357.485 ms
Loss rate: 14.47%
-- Flow 3:
Average throughput: 17.60 Mbit/s
95th percentile per-packet one-way delay: 25.330 ms
Loss rate: 0.35%

Run 5: Report of PCC-Allegro — Data Link

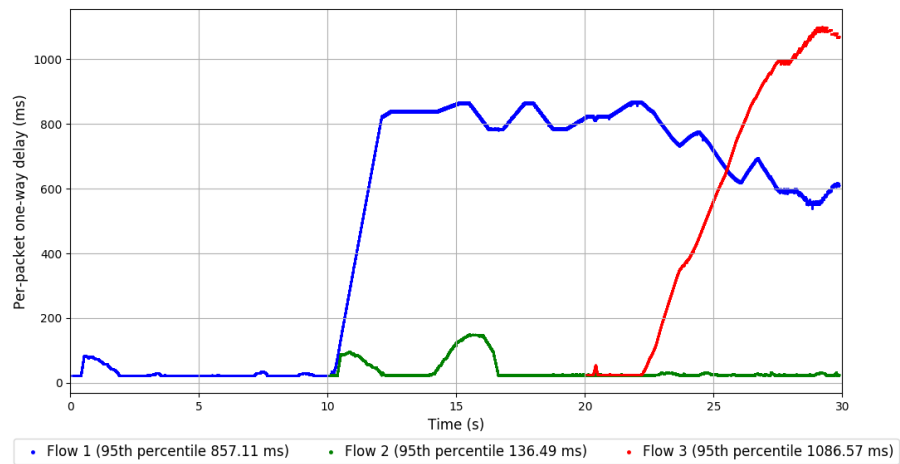
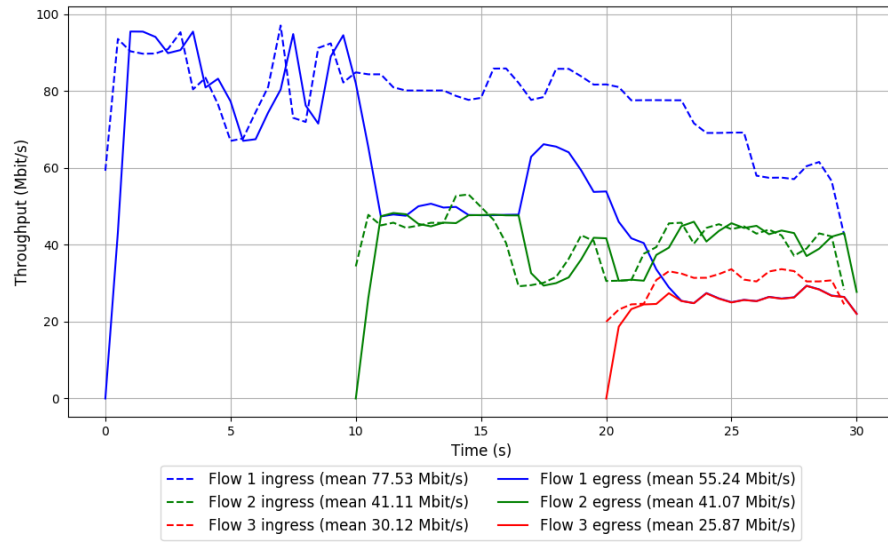


```
Run 1: Statistics of PCC-Expr

Start at: 2018-09-25 16:49:41
End at: 2018-09-25 16:50:11
Local clock offset: 2.443 ms
Remote clock offset: -3.732 ms

# Below is generated by plot.py at 2018-09-25 18:52:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 861.877 ms
Loss rate: 20.77%
-- Flow 1:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 857.109 ms
Loss rate: 28.83%
-- Flow 2:
Average throughput: 41.07 Mbit/s
95th percentile per-packet one-way delay: 136.493 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 1086.574 ms
Loss rate: 14.39%
```

Run 1: Report of PCC-Expr — Data Link

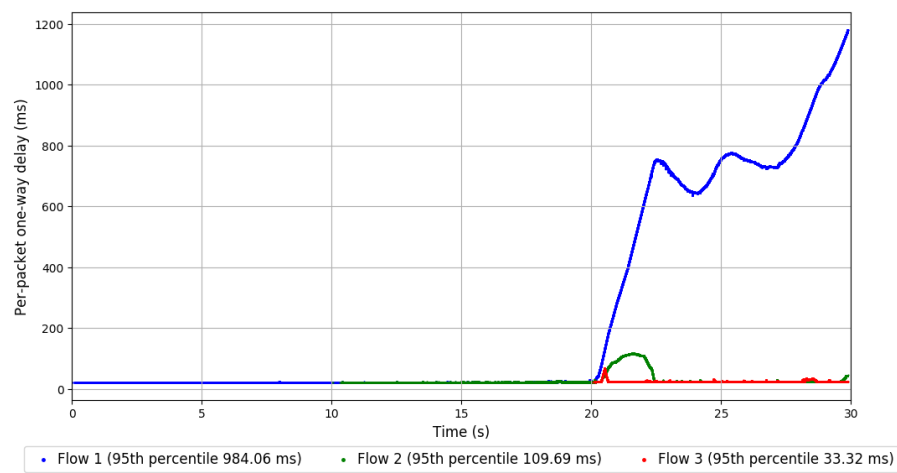
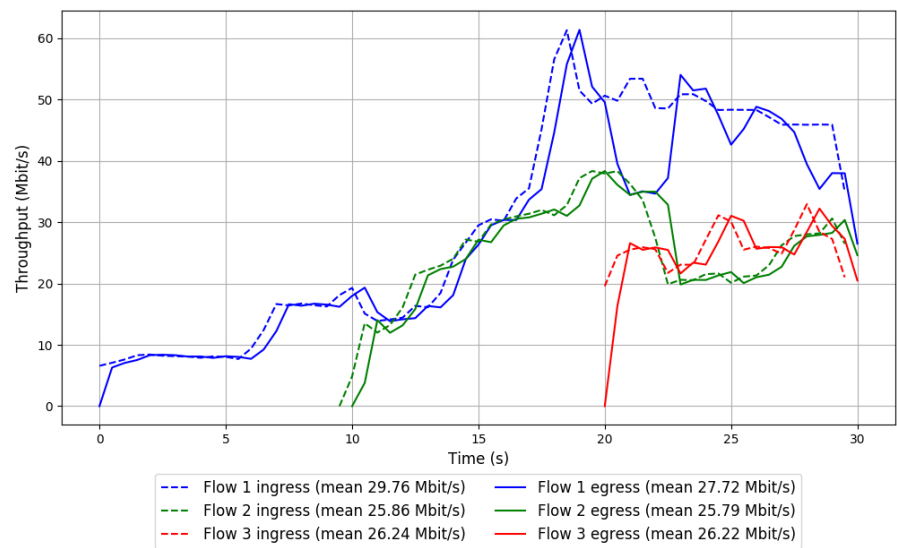


Run 2: Statistics of PCC-Expr

Start at: 2018-09-25 17:15:28
End at: 2018-09-25 17:15:58
Local clock offset: 1.408 ms
Remote clock offset: -3.516 ms

Below is generated by plot.py at 2018-09-25 18:52:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.51 Mbit/s
95th percentile per-packet one-way delay: 775.682 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 984.057 ms
Loss rate: 6.94%
-- Flow 2:
Average throughput: 25.79 Mbit/s
95th percentile per-packet one-way delay: 109.687 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 33.318 ms
Loss rate: 0.35%

Run 2: Report of PCC-Expr — Data Link

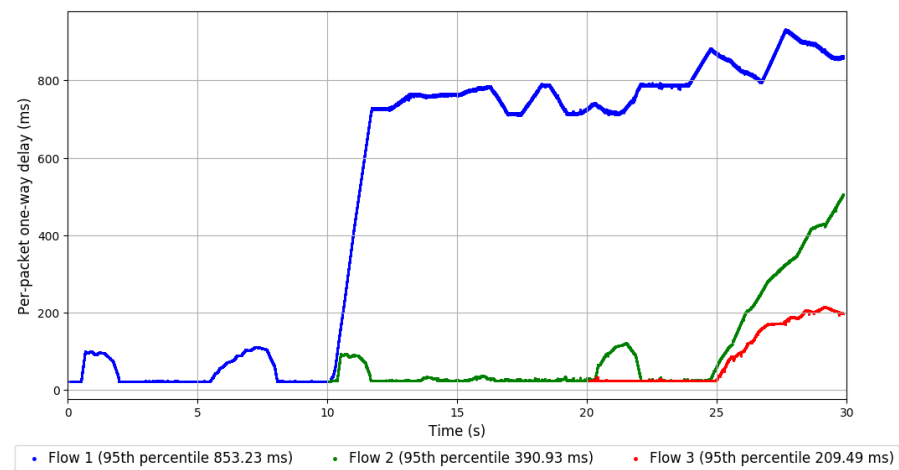
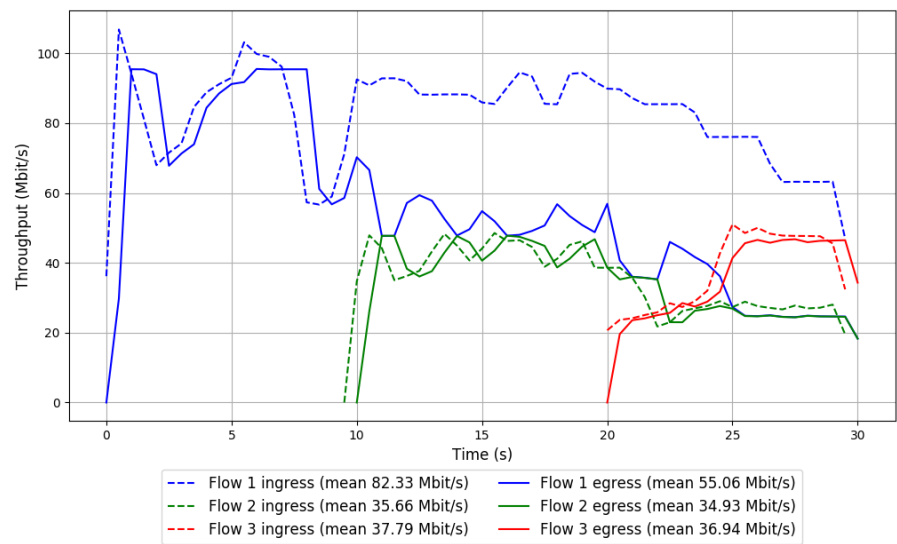


Run 3: Statistics of PCC-Expr

Start at: 2018-09-25 17:40:46
End at: 2018-09-25 17:41:16
Local clock offset: 1.068 ms
Remote clock offset: -3.582 ms

Below is generated by plot.py at 2018-09-25 18:53:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: 797.519 ms
Loss rate: 23.78%
-- Flow 1:
Average throughput: 55.06 Mbit/s
95th percentile per-packet one-way delay: 853.226 ms
Loss rate: 33.21%
-- Flow 2:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 390.926 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 209.494 ms
Loss rate: 2.55%

Run 3: Report of PCC-Expr — Data Link

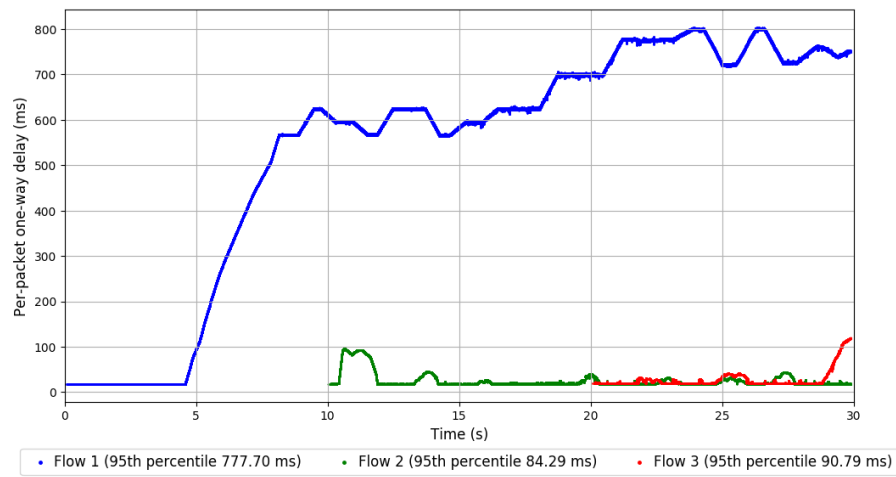
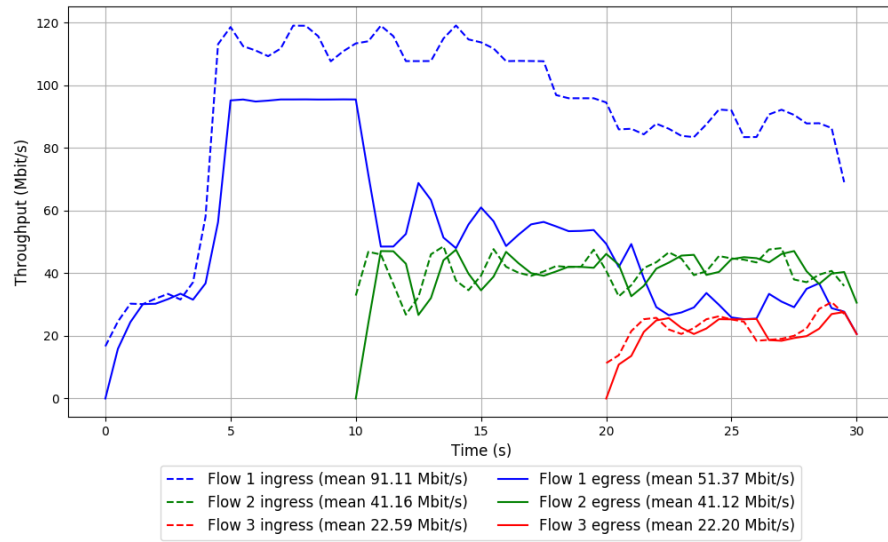


Run 4: Statistics of PCC-Expr

Start at: 2018-09-25 18:05:56
End at: 2018-09-25 18:06:26
Local clock offset: 1.315 ms
Remote clock offset: -3.897 ms

Below is generated by plot.py at 2018-09-25 18:53:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.03 Mbit/s
95th percentile per-packet one-way delay: 764.088 ms
Loss rate: 31.88%
-- Flow 1:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 777.695 ms
Loss rate: 43.73%
-- Flow 2:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 84.288 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 90.792 ms
Loss rate: 2.75%

Run 4: Report of PCC-Expr — Data Link

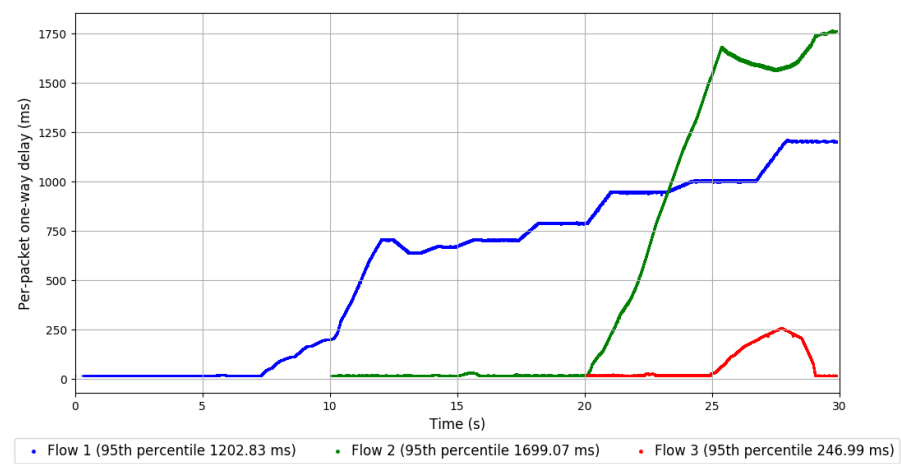
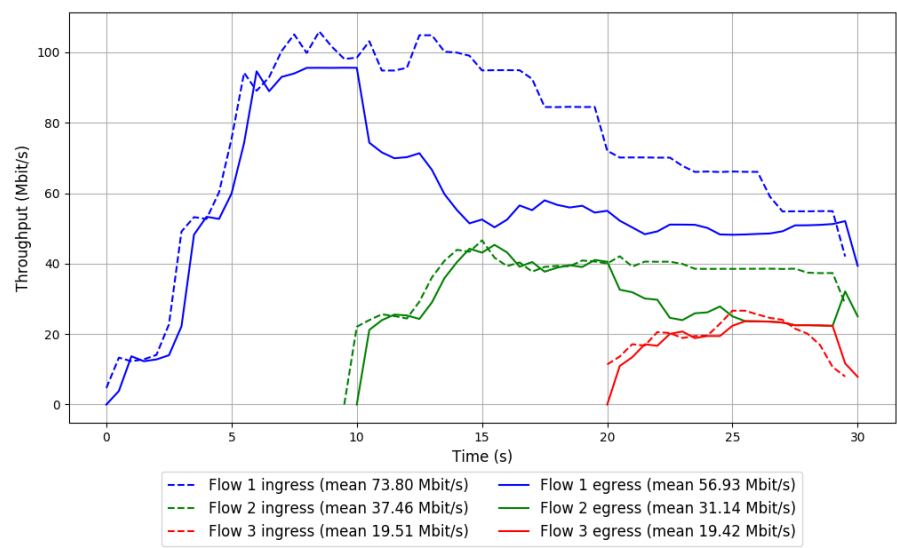


Run 5: Statistics of PCC-Expr

Start at: 2018-09-25 18:30:38
End at: 2018-09-25 18:31:08
Local clock offset: 1.289 ms
Remote clock offset: -2.855 ms

Below is generated by plot.py at 2018-09-25 18:53:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.05 Mbit/s
95th percentile per-packet one-way delay: 1459.867 ms
Loss rate: 20.15%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 1202.826 ms
Loss rate: 22.92%
-- Flow 2:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 1699.066 ms
Loss rate: 16.98%
-- Flow 3:
Average throughput: 19.42 Mbit/s
95th percentile per-packet one-way delay: 246.989 ms
Loss rate: 0.71%

Run 5: Report of PCC-Expr — Data Link

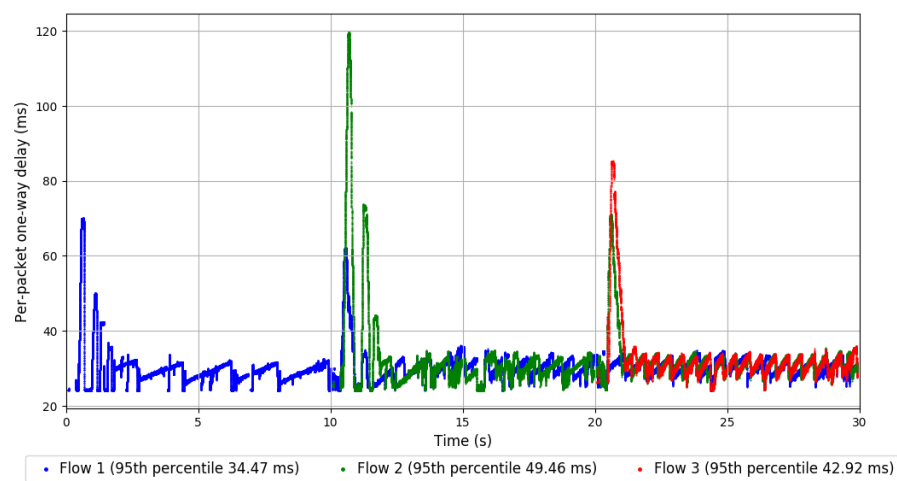
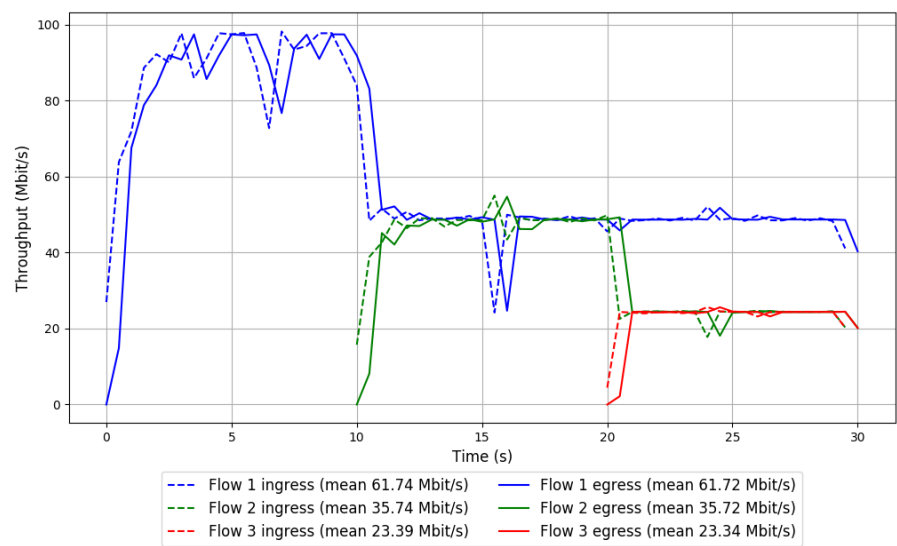


Run 1: Statistics of QUIC Cubic

Start at: 2018-09-25 16:57:41
End at: 2018-09-25 16:58:11
Local clock offset: 3.321 ms
Remote clock offset: -4.551 ms

Below is generated by plot.py at 2018-09-25 18:53:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 35.528 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 61.72 Mbit/s
95th percentile per-packet one-way delay: 34.472 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 49.461 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 42.921 ms
Loss rate: 0.50%

Run 1: Report of QUIC Cubic — Data Link

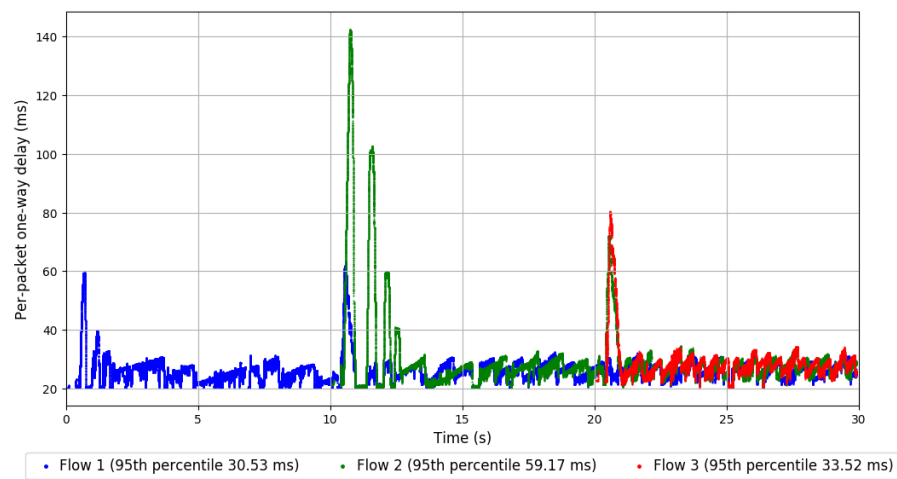
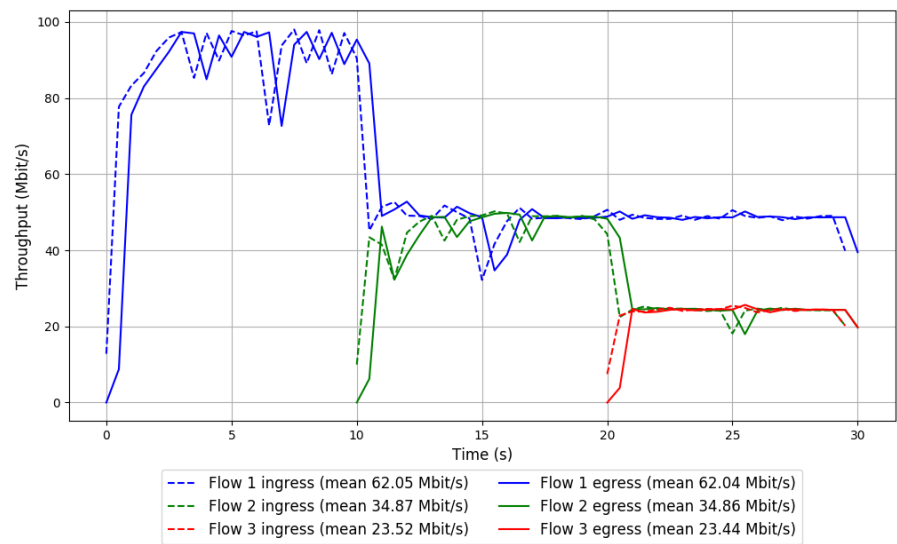


Run 2: Statistics of QUIC Cubic

Start at: 2018-09-25 17:23:09
End at: 2018-09-25 17:23:39
Local clock offset: -1.582 ms
Remote clock offset: -3.982 ms

Below is generated by plot.py at 2018-09-25 18:53:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 32.578 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 62.04 Mbit/s
95th percentile per-packet one-way delay: 30.532 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 59.168 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 33.519 ms
Loss rate: 0.67%

Run 2: Report of QUIC Cubic — Data Link

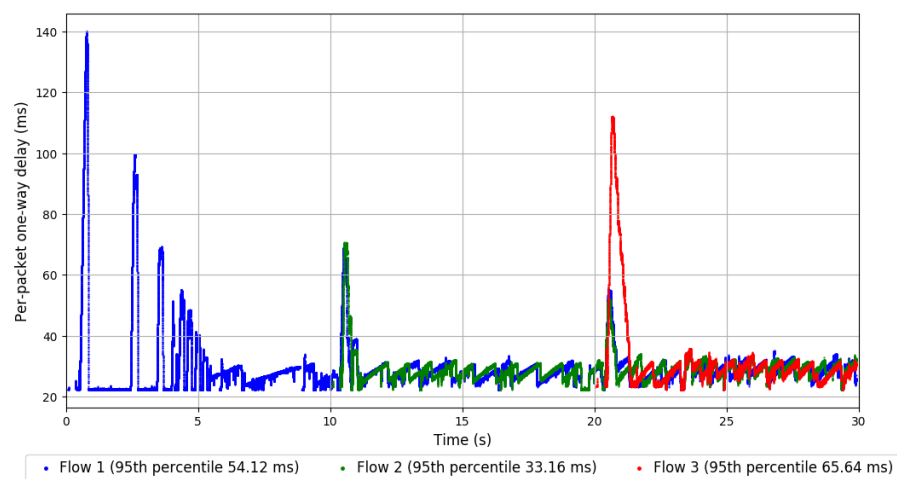
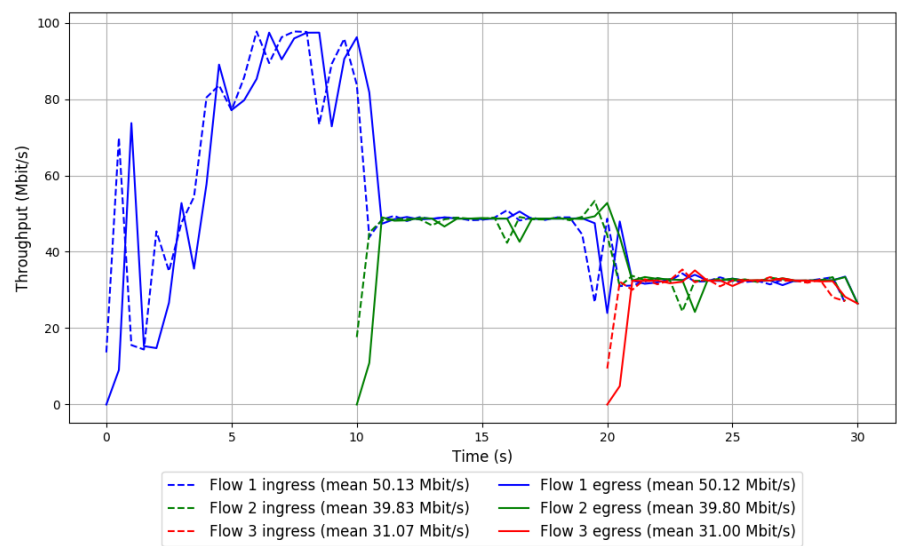


Run 3: Statistics of QUIC Cubic

Start at: 2018-09-25 17:48:48
End at: 2018-09-25 17:49:18
Local clock offset: 1.125 ms
Remote clock offset: -3.951 ms

Below is generated by plot.py at 2018-09-25 18:53:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.84 Mbit/s
95th percentile per-packet one-way delay: 47.666 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 54.116 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.80 Mbit/s
95th percentile per-packet one-way delay: 33.157 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 65.637 ms
Loss rate: 0.52%

Run 3: Report of QUIC Cubic — Data Link

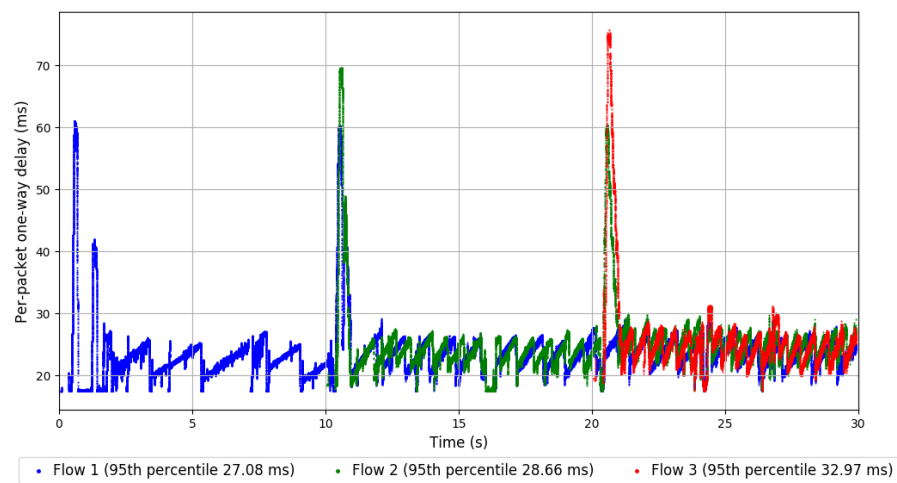
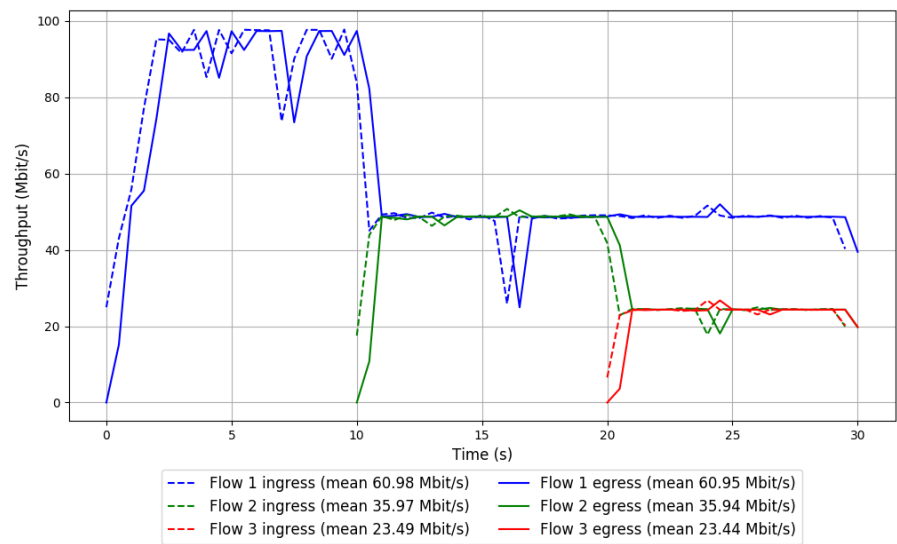


Run 4: Statistics of QUIC Cubic

Start at: 2018-09-25 18:13:47
End at: 2018-09-25 18:14:17
Local clock offset: 1.024 ms
Remote clock offset: -3.729 ms

Below is generated by plot.py at 2018-09-25 18:53:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 27.738 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 60.95 Mbit/s
95th percentile per-packet one-way delay: 27.078 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 28.660 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 32.972 ms
Loss rate: 0.46%

Run 4: Report of QUIC Cubic — Data Link

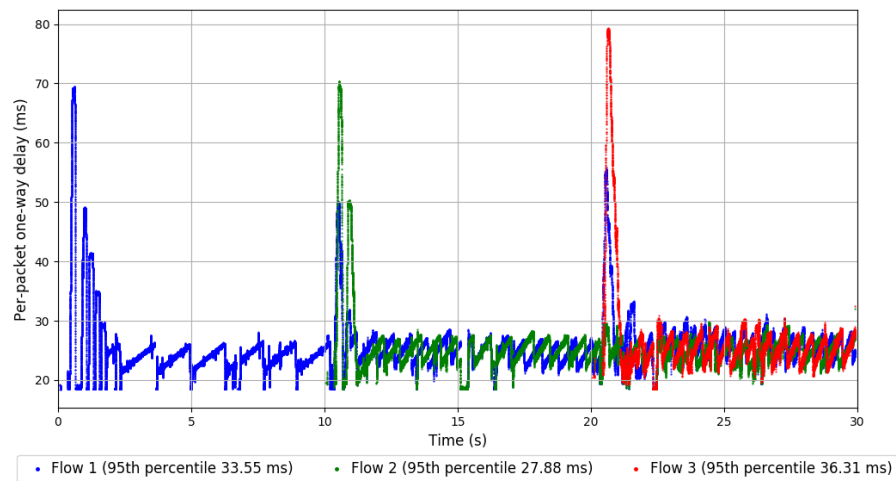
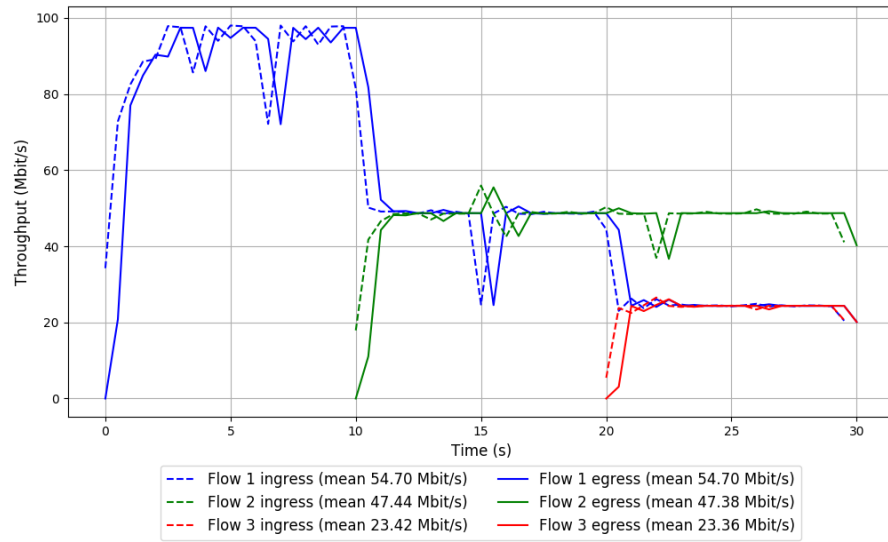


Run 5: Statistics of QUIC Cubic

Start at: 2018-09-25 18:38:18
End at: 2018-09-25 18:38:48
Local clock offset: -0.606 ms
Remote clock offset: -5.546 ms

Below is generated by plot.py at 2018-09-25 18:53:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 29.681 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 54.70 Mbit/s
95th percentile per-packet one-way delay: 33.555 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 47.38 Mbit/s
95th percentile per-packet one-way delay: 27.881 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.36 Mbit/s
95th percentile per-packet one-way delay: 36.315 ms
Loss rate: 0.48%

Run 5: Report of QUIC Cubic — Data Link

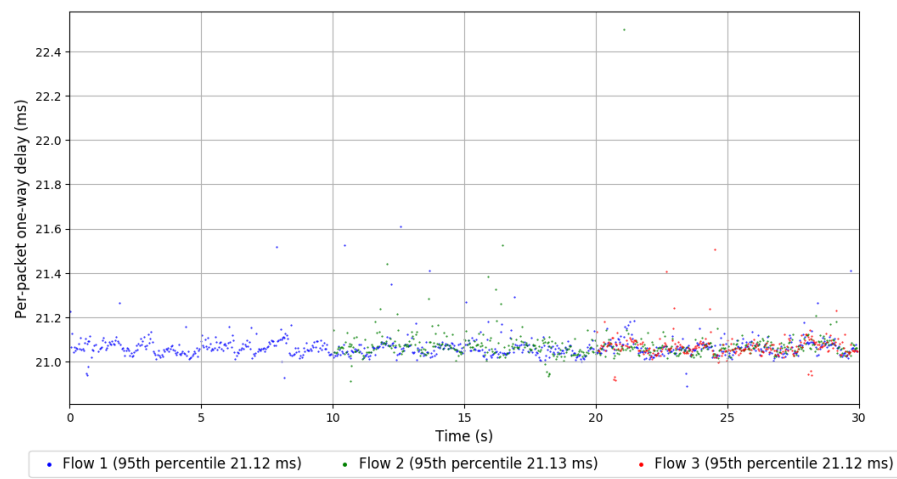
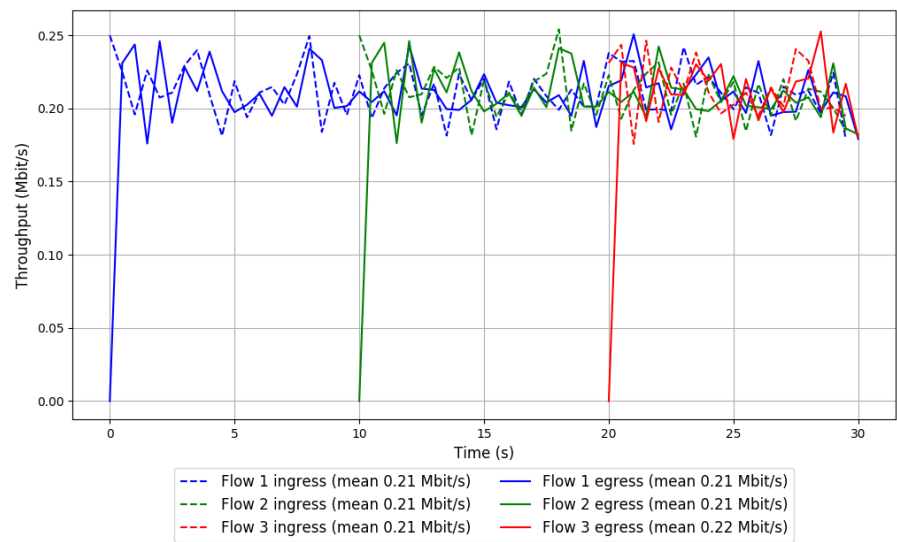


Run 1: Statistics of SReAM

Start at: 2018-09-25 16:35:37
End at: 2018-09-25 16:36:07
Local clock offset: 1.013 ms
Remote clock offset: -4.453 ms

Below is generated by plot.py at 2018-09-25 18:53:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 21.130 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.124 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.134 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.123 ms
Loss rate: 0.36%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-09-25 17:01:47

End at: 2018-09-25 17:02:17

Local clock offset: 0.4 ms

Remote clock offset: -4.01 ms

Below is generated by plot.py at 2018-09-25 18:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 20.866 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 20.862 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 20.870 ms

Loss rate: 0.19%

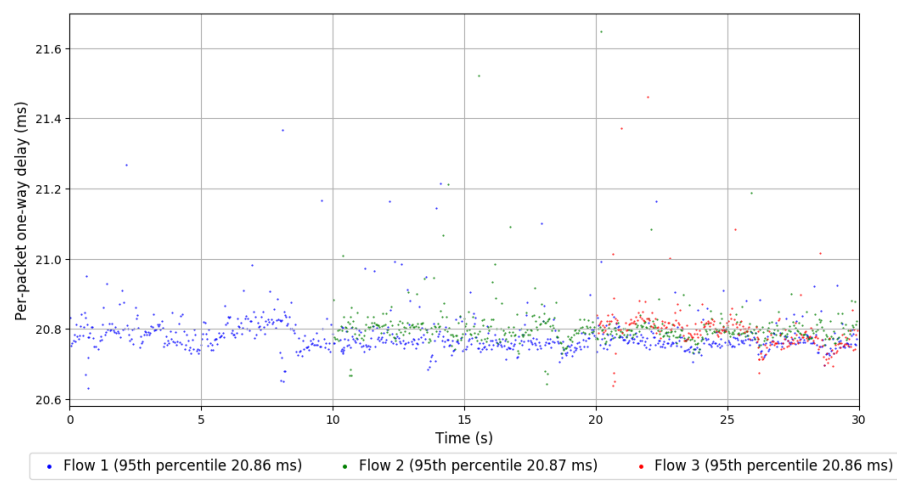
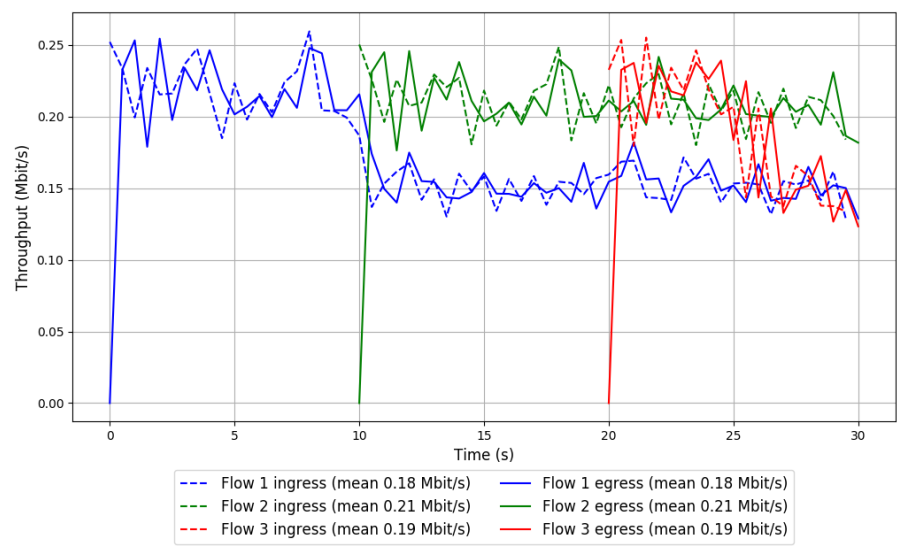
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 20.858 ms

Loss rate: 0.27%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-09-25 17:27:13

End at: 2018-09-25 17:27:43

Local clock offset: 0.722 ms

Remote clock offset: -3.93 ms

Below is generated by plot.py at 2018-09-25 18:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 23.061 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.060 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 23.098 ms

Loss rate: 0.19%

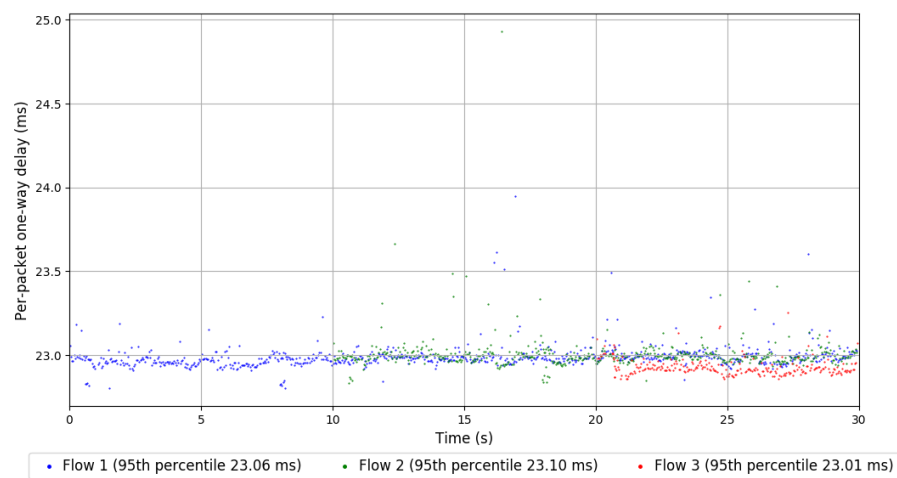
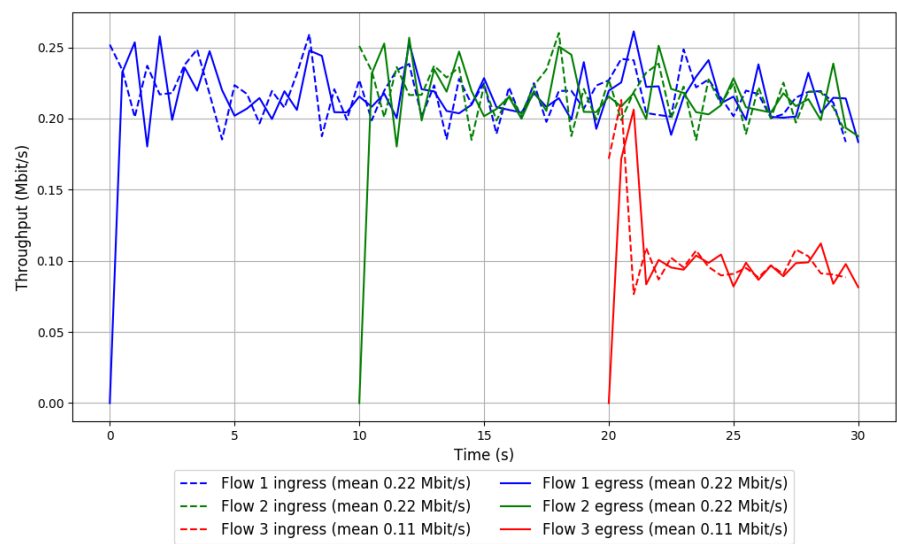
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 23.012 ms

Loss rate: 0.33%

Run 3: Report of SReAM — Data Link

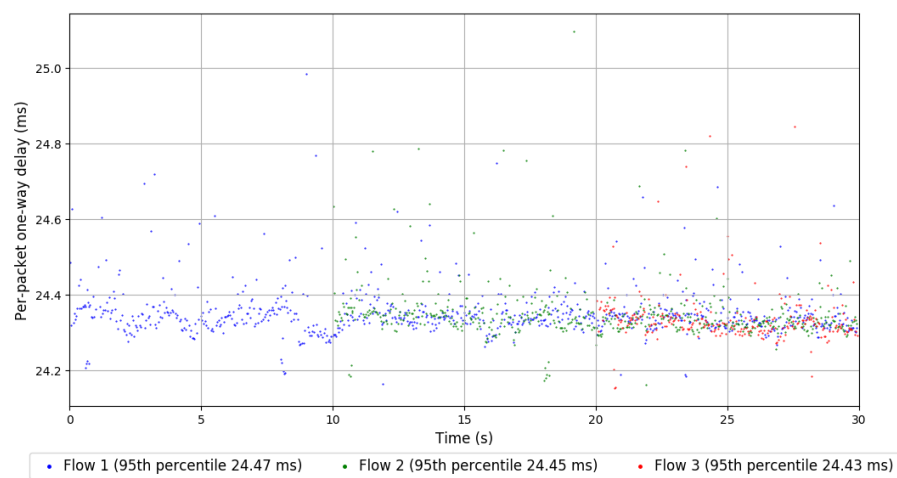
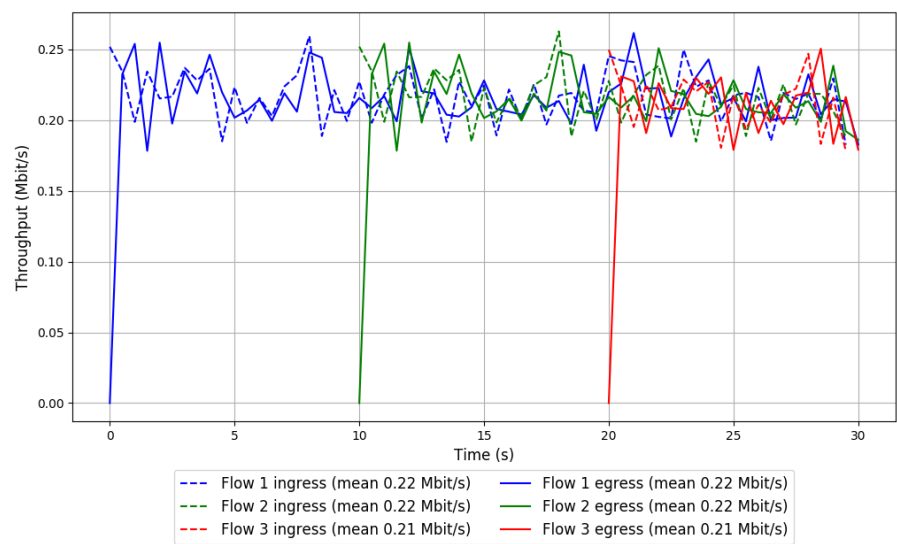


Run 4: Statistics of SCReAM

Start at: 2018-09-25 17:52:54
End at: 2018-09-25 17:53:24
Local clock offset: 3.364 ms
Remote clock offset: -3.859 ms

Below is generated by plot.py at 2018-09-25 18:53:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 24.455 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 24.466 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 24.452 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 24.431 ms
Loss rate: 0.35%

Run 4: Report of SCReAM — Data Link

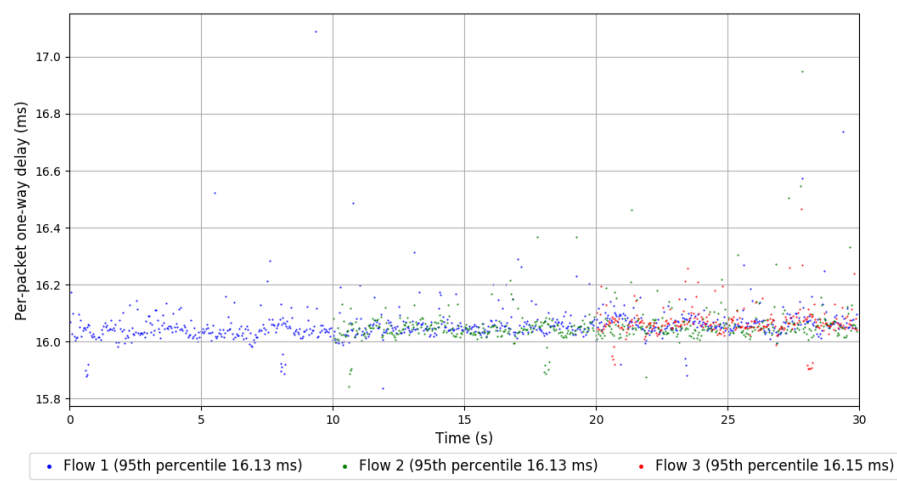
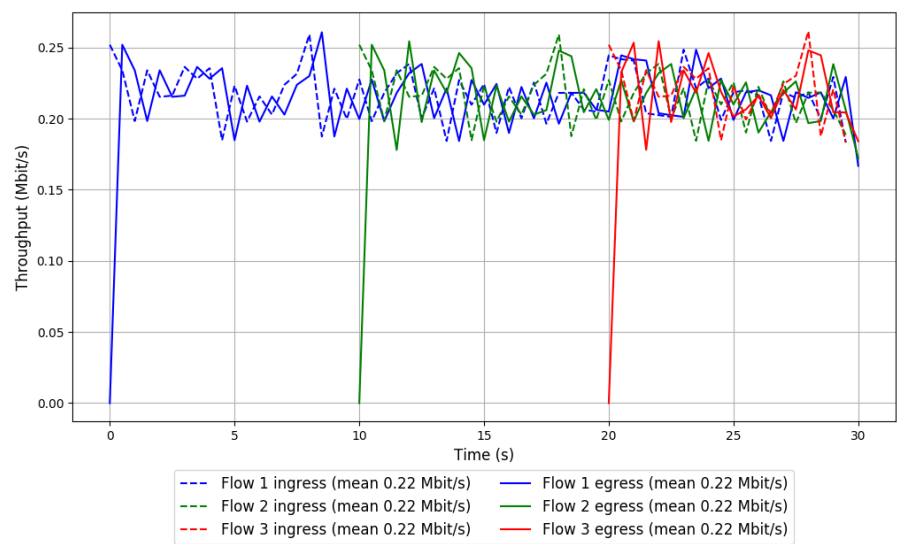


Run 5: Statistics of SReAM

Start at: 2018-09-25 18:18:05
End at: 2018-09-25 18:18:35
Local clock offset: -0.556 ms
Remote clock offset: -3.483 ms

Below is generated by plot.py at 2018-09-25 18:53:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 16.137 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 16.134 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 16.130 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 16.149 ms
Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-09-25 16:47:08

End at: 2018-09-25 16:47:38

Local clock offset: 4.367 ms

Remote clock offset: -4.74 ms

Below is generated by plot.py at 2018-09-25 18:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.39 Mbit/s

95th percentile per-packet one-way delay: 32.362 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 31.616 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 32.948 ms

Loss rate: 0.21%

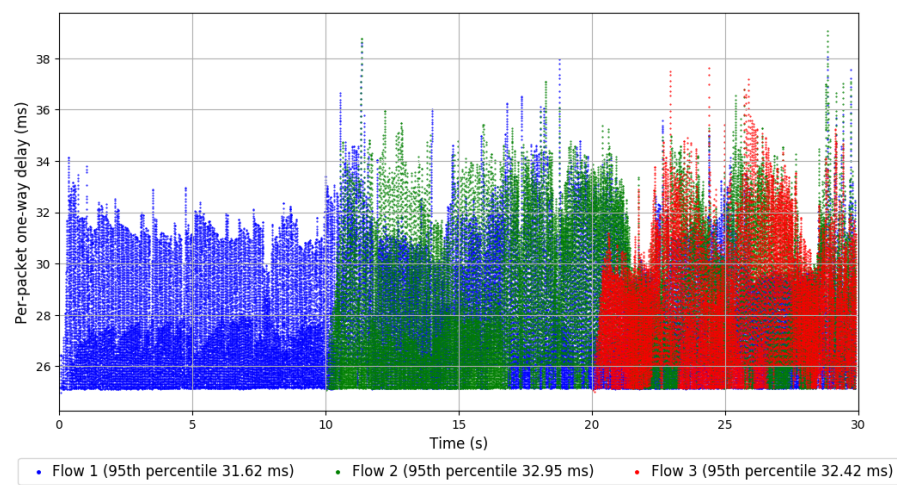
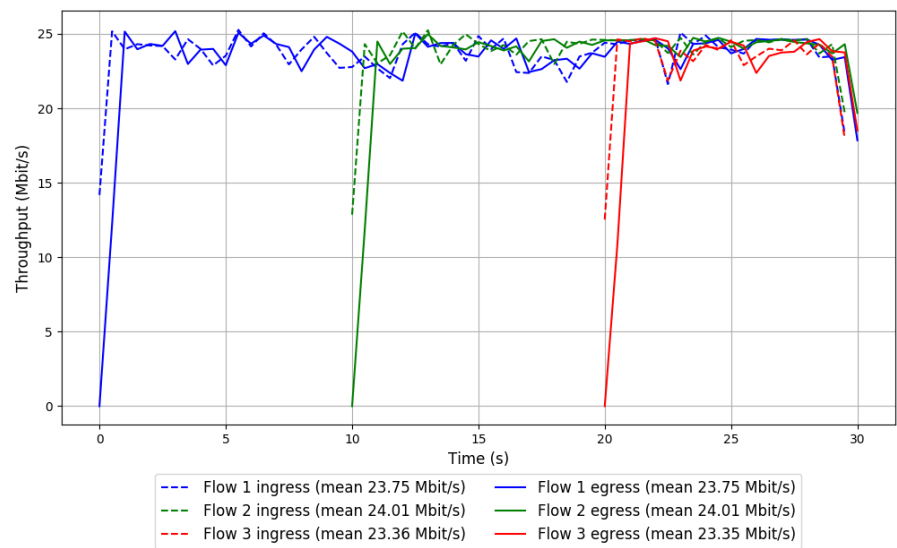
-- Flow 3:

Average throughput: 23.35 Mbit/s

95th percentile per-packet one-way delay: 32.422 ms

Loss rate: 0.14%

Run 1: Report of Sprout — Data Link

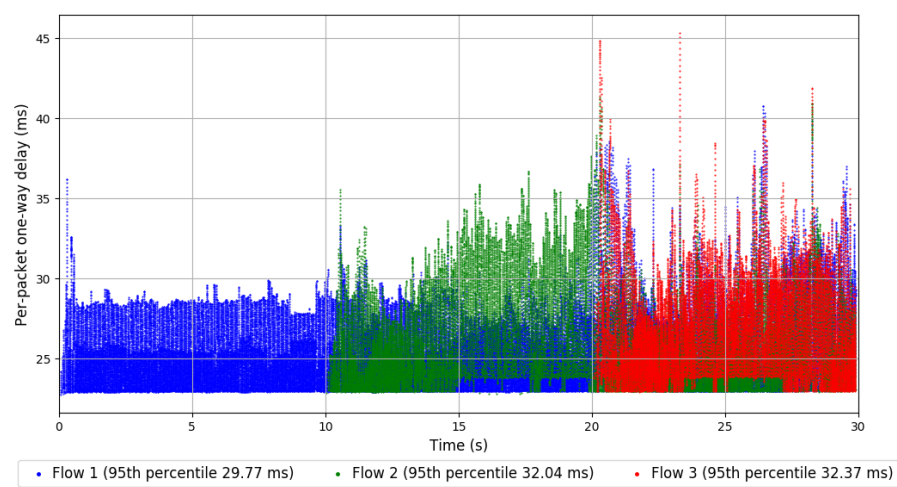
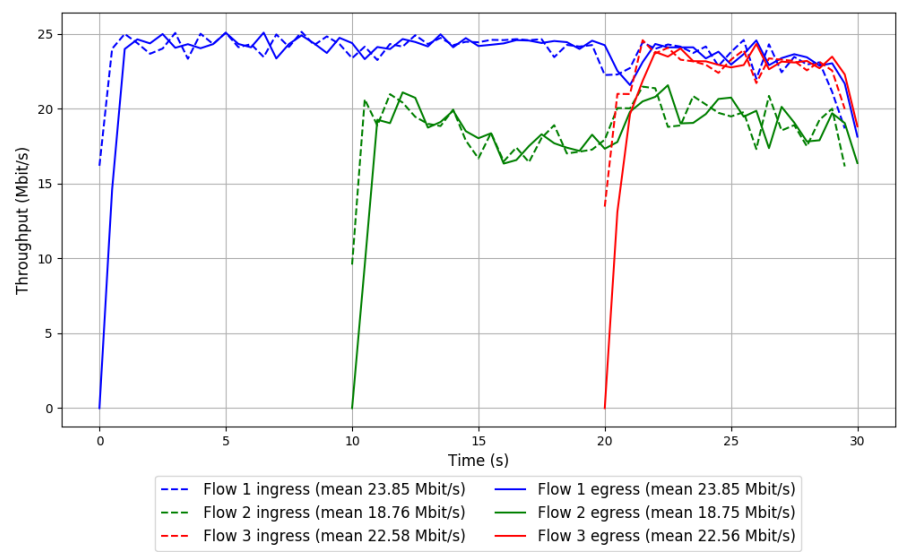


Run 2: Statistics of Sprout

Start at: 2018-09-25 17:12:51
End at: 2018-09-25 17:13:21
Local clock offset: 1.85 ms
Remote clock offset: -3.949 ms

Below is generated by plot.py at 2018-09-25 18:53:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.75 Mbit/s
95th percentile per-packet one-way delay: 31.210 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 23.85 Mbit/s
95th percentile per-packet one-way delay: 29.767 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 18.75 Mbit/s
95th percentile per-packet one-way delay: 32.044 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 32.365 ms
Loss rate: 0.44%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-09-25 17:38:16

End at: 2018-09-25 17:38:46

Local clock offset: 0.514 ms

Remote clock offset: -4.17 ms

Below is generated by plot.py at 2018-09-25 18:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 32.312 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 23.36 Mbit/s

95th percentile per-packet one-way delay: 32.028 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 32.454 ms

Loss rate: 0.11%

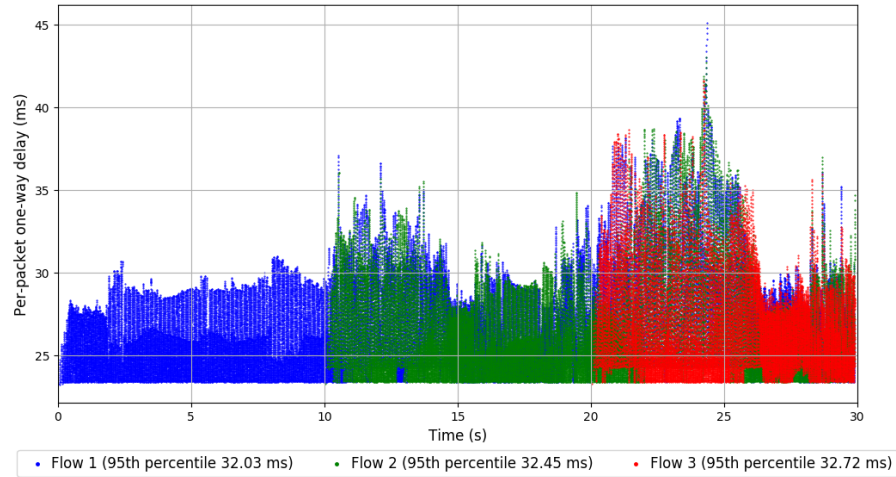
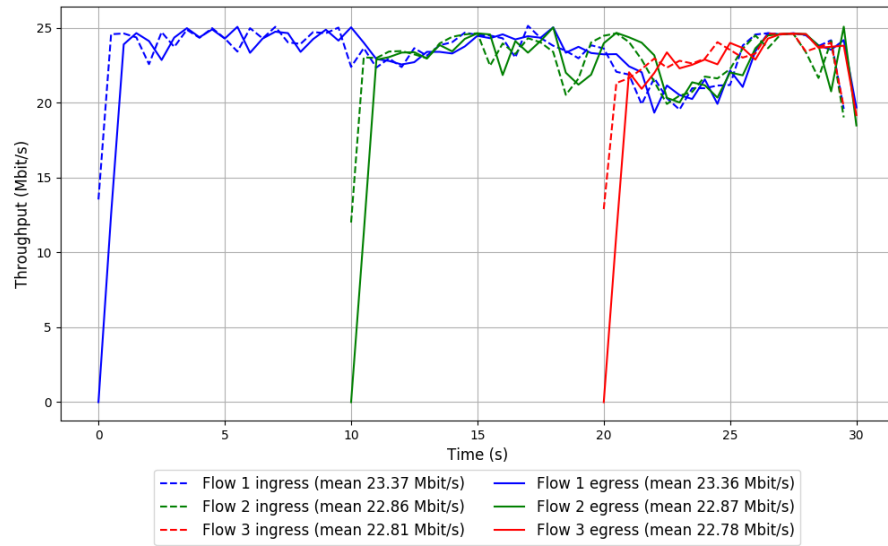
-- Flow 3:

Average throughput: 22.78 Mbit/s

95th percentile per-packet one-way delay: 32.719 ms

Loss rate: 0.32%

Run 3: Report of Sprout — Data Link

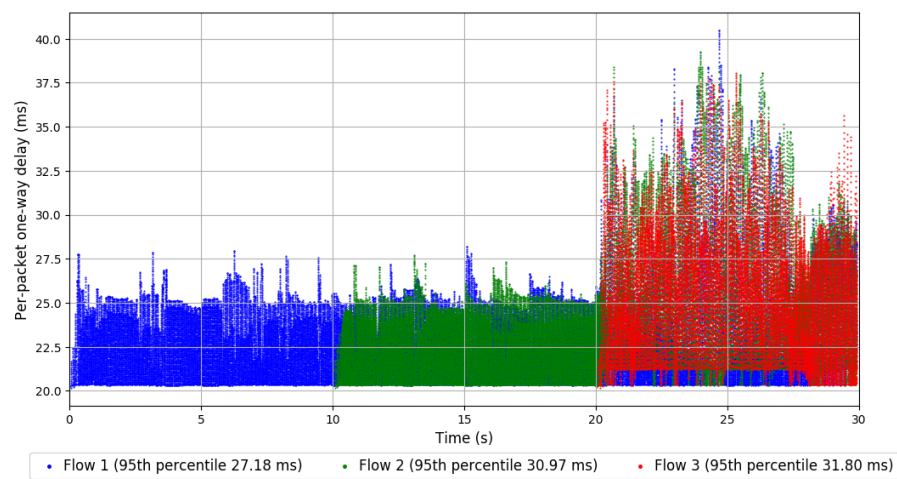
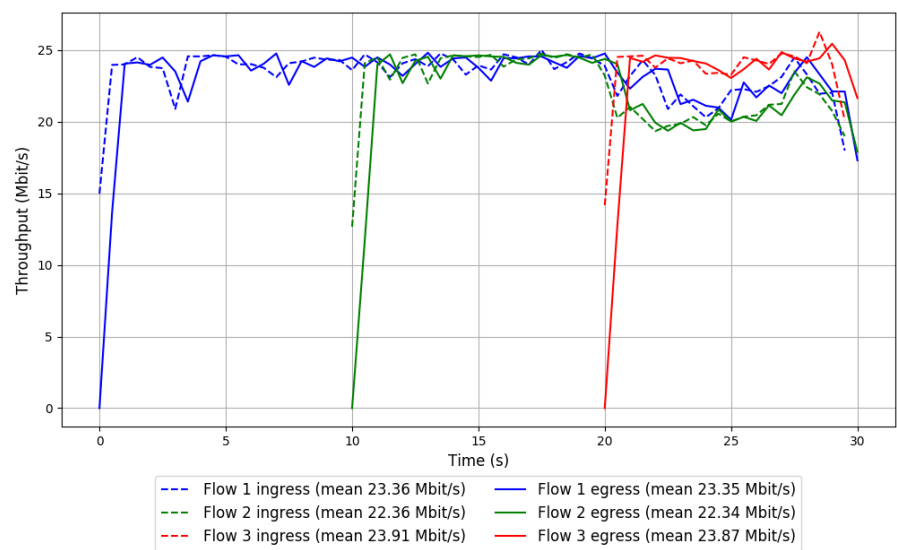


Run 4: Statistics of Sprout

Start at: 2018-09-25 18:03:29
End at: 2018-09-25 18:03:59
Local clock offset: 4.255 ms
Remote clock offset: -3.713 ms

```
# Below is generated by plot.py at 2018-09-25 18:53:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.08 Mbit/s
95th percentile per-packet one-way delay: 29.968 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 27.176 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 30.973 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 31.801 ms
Loss rate: 0.04%
```

Run 4: Report of Sprout — Data Link

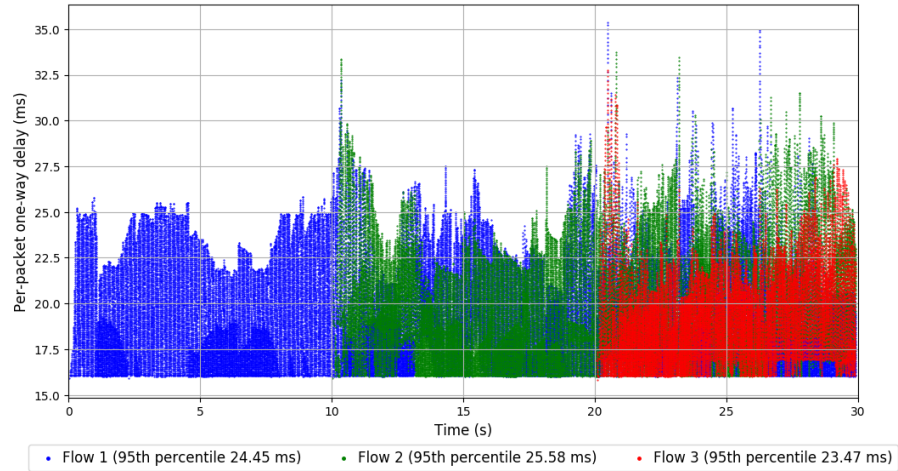
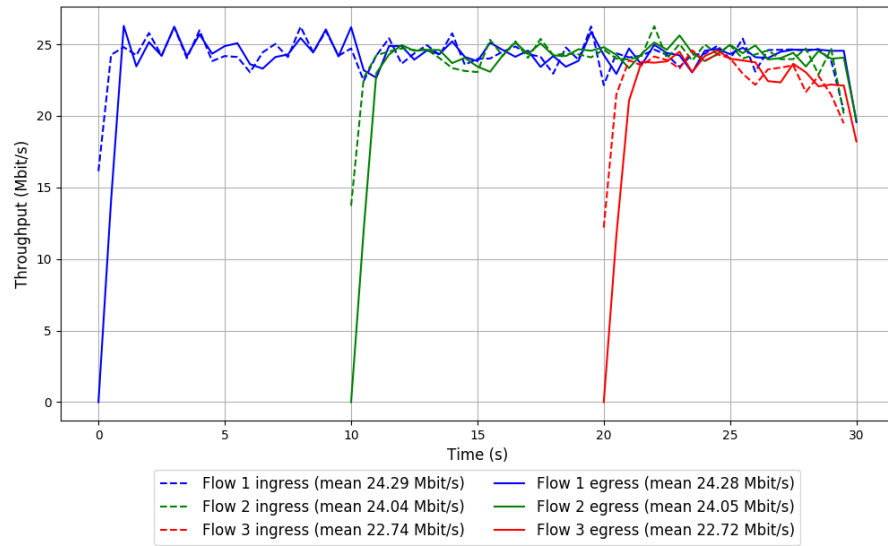


Run 5: Statistics of Sprout

Start at: 2018-09-25 18:28:11
End at: 2018-09-25 18:28:41
Local clock offset: -0.535 ms
Remote clock offset: -3.139 ms

```
# Below is generated by plot.py at 2018-09-25 18:53:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.76 Mbit/s
95th percentile per-packet one-way delay: 24.729 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 24.445 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 24.05 Mbit/s
95th percentile per-packet one-way delay: 25.582 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 22.72 Mbit/s
95th percentile per-packet one-way delay: 23.467 ms
Loss rate: 0.44%
```

Run 5: Report of Sprout — Data Link

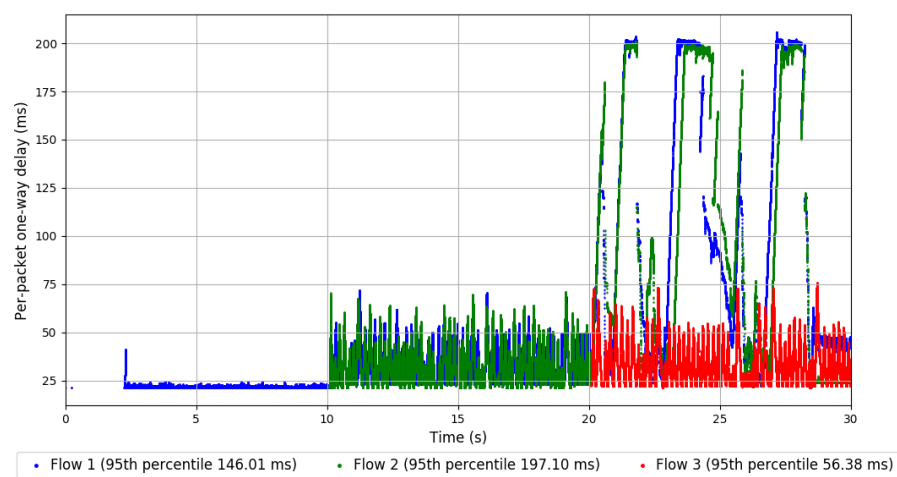
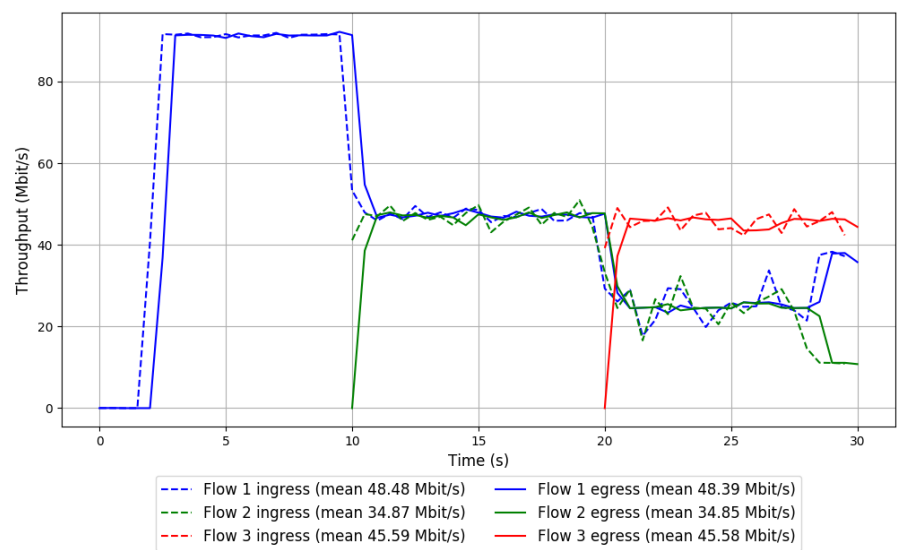


Run 1: Statistics of TaoVA-100x

Start at: 2018-09-25 16:37:56
End at: 2018-09-25 16:38:26
Local clock offset: 1.326 ms
Remote clock offset: -4.442 ms

Below is generated by plot.py at 2018-09-25 18:55:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 168.842 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 146.015 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 34.85 Mbit/s
95th percentile per-packet one-way delay: 197.104 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 45.58 Mbit/s
95th percentile per-packet one-way delay: 56.385 ms
Loss rate: 0.33%

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

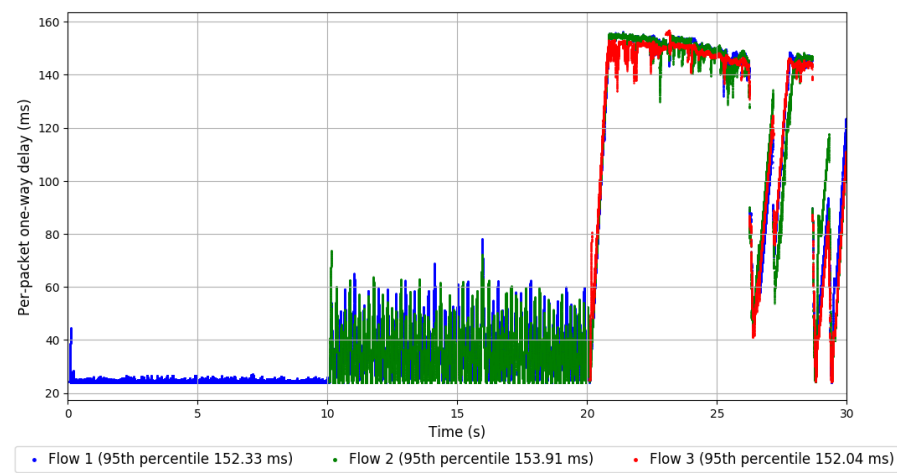
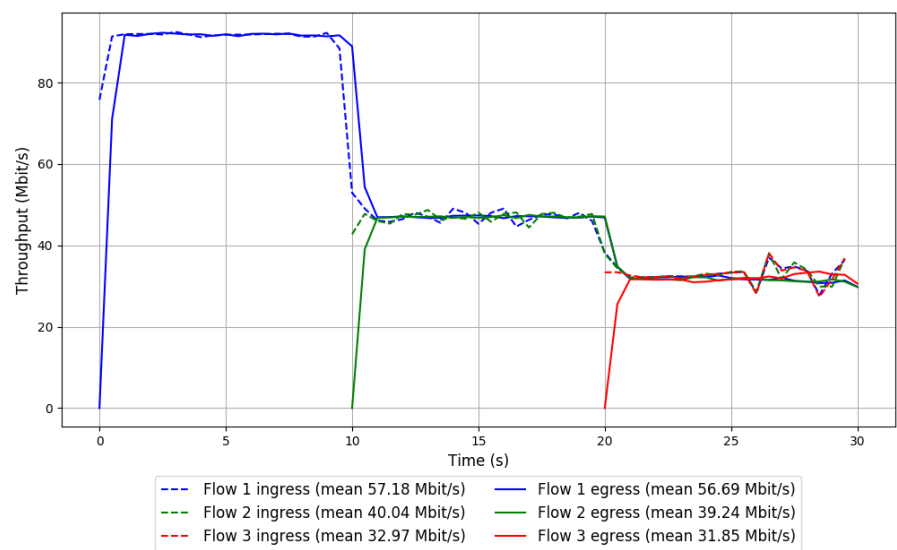


Run 2: Statistics of TaoVA-100x

Start at: 2018-09-25 17:04:20
End at: 2018-09-25 17:04:50
Local clock offset: 3.479 ms
Remote clock offset: -4.226 ms

Below is generated by plot.py at 2018-09-25 18:55:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 153.017 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 56.69 Mbit/s
95th percentile per-packet one-way delay: 152.332 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 153.905 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 152.038 ms
Loss rate: 3.71%

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

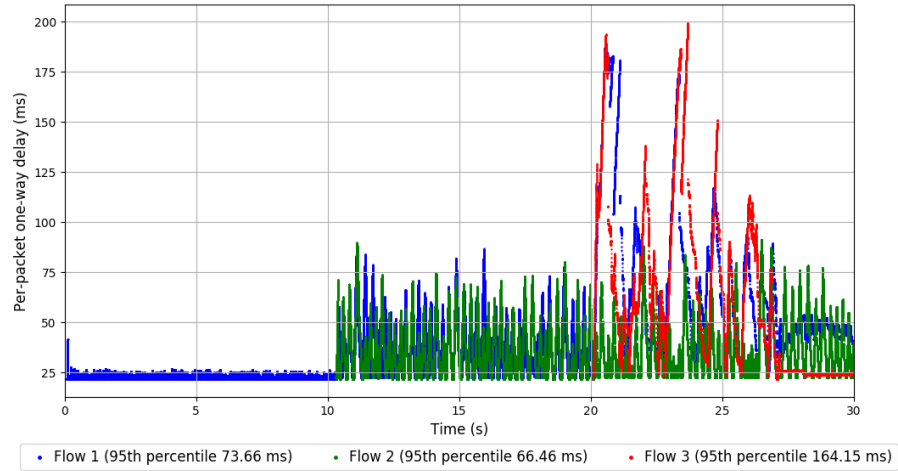
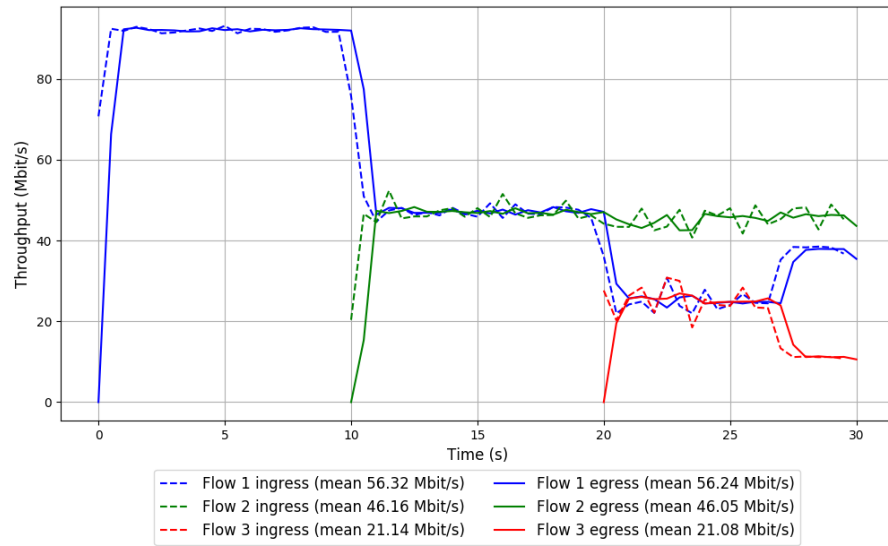


Run 3: Statistics of TaoVA-100x

Start at: 2018-09-25 17:29:43
End at: 2018-09-25 17:30:13
Local clock offset: 0.352 ms
Remote clock offset: -3.121 ms

Below is generated by plot.py at 2018-09-25 18:55:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 80.488 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 73.661 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 46.05 Mbit/s
95th percentile per-packet one-way delay: 66.459 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 164.145 ms
Loss rate: 0.63%

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

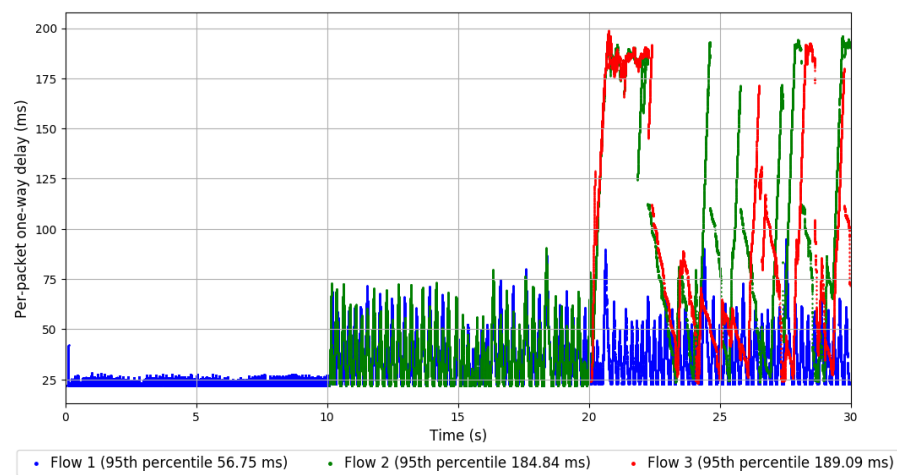
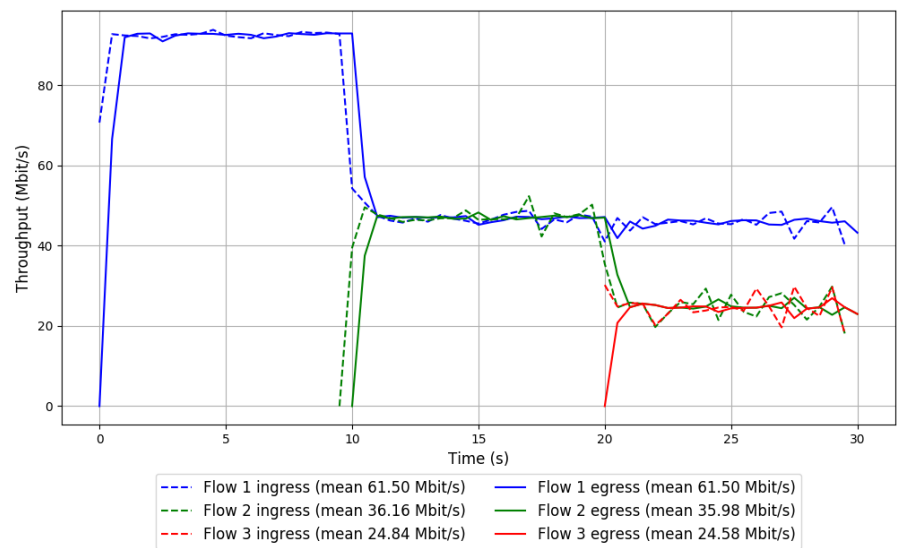


Run 4: Statistics of TaoVA-100x

Start at: 2018-09-25 17:55:22
End at: 2018-09-25 17:55:52
Local clock offset: 2.111 ms
Remote clock offset: -2.907 ms

Below is generated by plot.py at 2018-09-25 18:55:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 140.563 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 61.50 Mbit/s
95th percentile per-packet one-way delay: 56.750 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 35.98 Mbit/s
95th percentile per-packet one-way delay: 184.837 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 189.085 ms
Loss rate: 1.34%

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

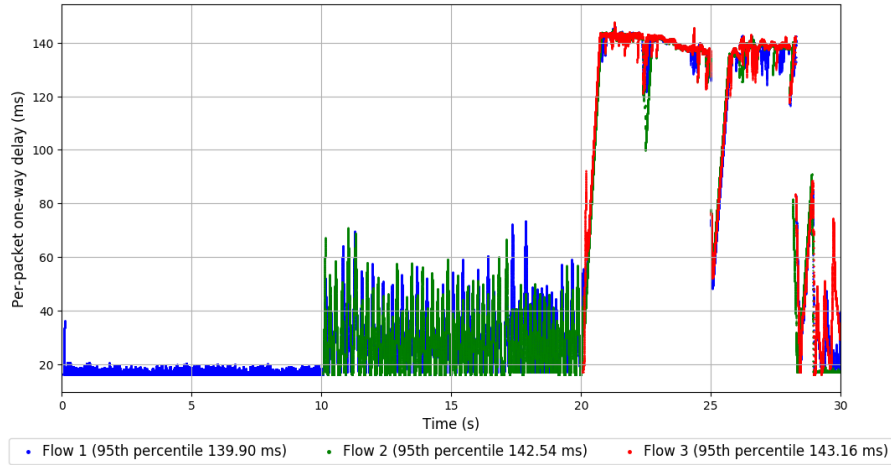
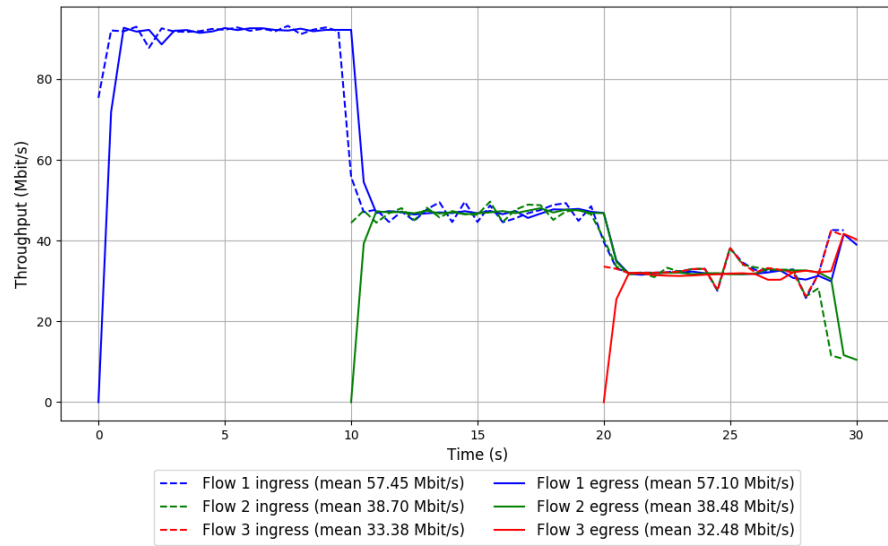


Run 5: Statistics of TaoVA-100x

Start at: 2018-09-25 18:20:29
End at: 2018-09-25 18:20:59
Local clock offset: -0.187 ms
Remote clock offset: -3.188 ms

Below is generated by plot.py at 2018-09-25 18:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 142.337 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 57.10 Mbit/s
95th percentile per-packet one-way delay: 139.901 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 142.539 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 143.156 ms
Loss rate: 2.95%

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

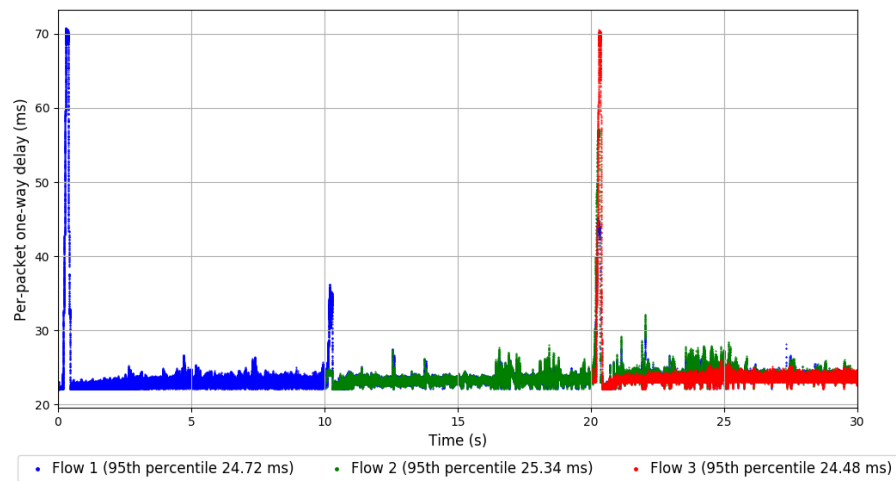
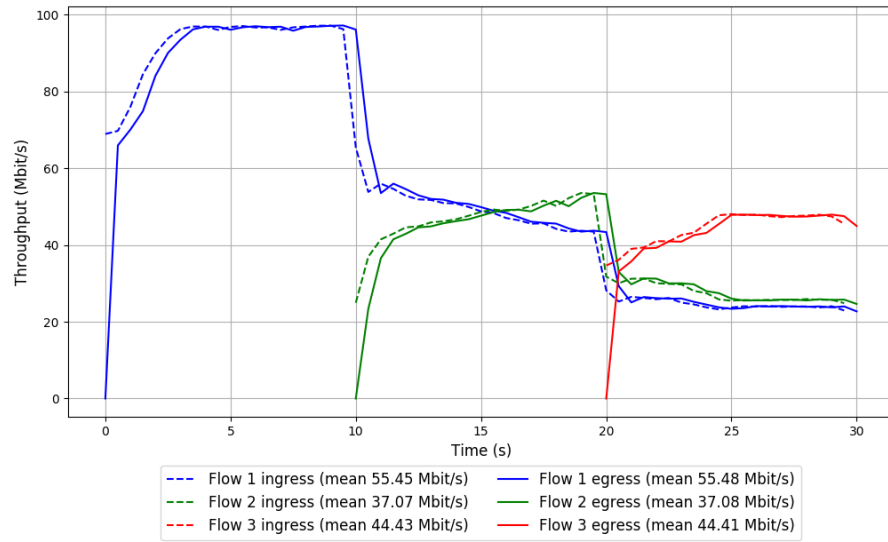


Run 1: Statistics of TCP Vegas

Start at: 2018-09-25 16:55:05
End at: 2018-09-25 16:55:35
Local clock offset: 2.279 ms
Remote clock offset: -3.575 ms

Below is generated by plot.py at 2018-09-25 18:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.89 Mbit/s
95th percentile per-packet one-way delay: 24.867 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 55.48 Mbit/s
95th percentile per-packet one-way delay: 24.721 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 37.08 Mbit/s
95th percentile per-packet one-way delay: 25.343 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 44.41 Mbit/s
95th percentile per-packet one-way delay: 24.478 ms
Loss rate: 0.31%

Run 1: Report of TCP Vegas — Data Link

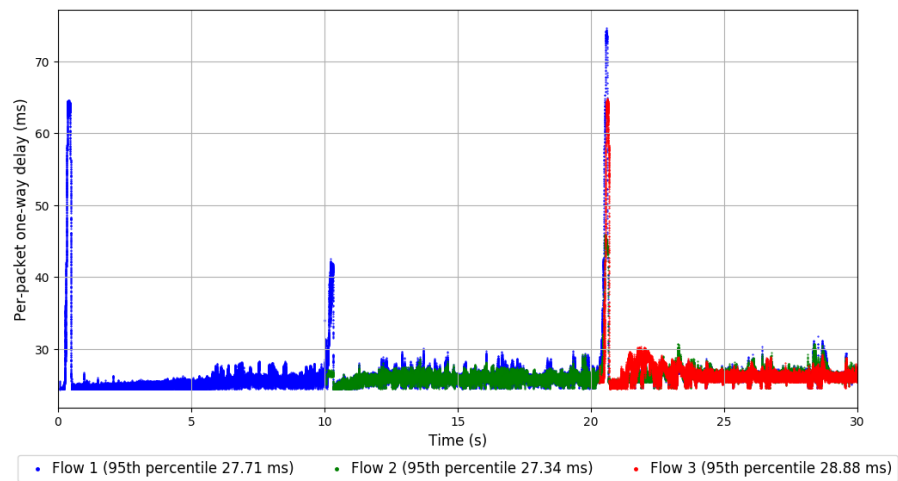
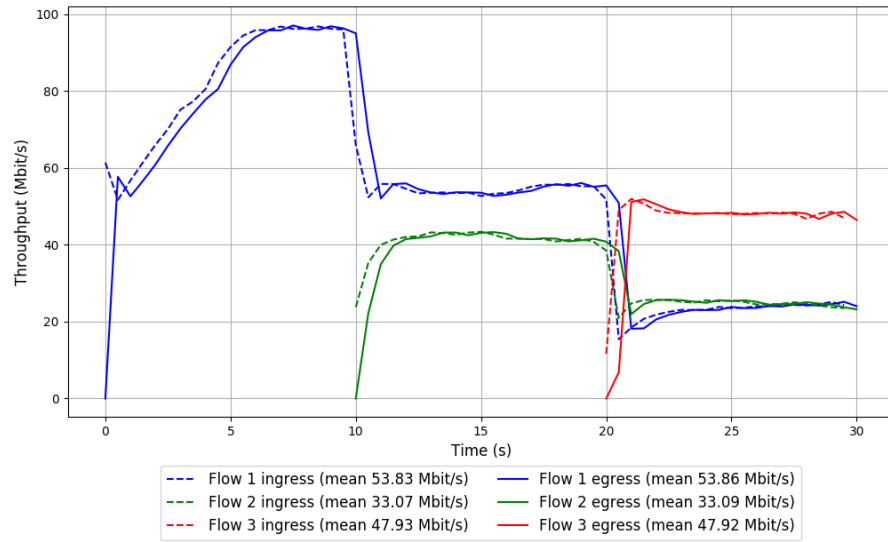


Run 2: Statistics of TCP Vegas

Start at: 2018-09-25 17:20:28
End at: 2018-09-25 17:20:58
Local clock offset: 3.607 ms
Remote clock offset: -3.011 ms

Below is generated by plot.py at 2018-09-25 18:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 27.953 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 53.86 Mbit/s
95th percentile per-packet one-way delay: 27.712 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 33.09 Mbit/s
95th percentile per-packet one-way delay: 27.338 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 47.92 Mbit/s
95th percentile per-packet one-way delay: 28.877 ms
Loss rate: 0.33%

Run 2: Report of TCP Vegas — Data Link

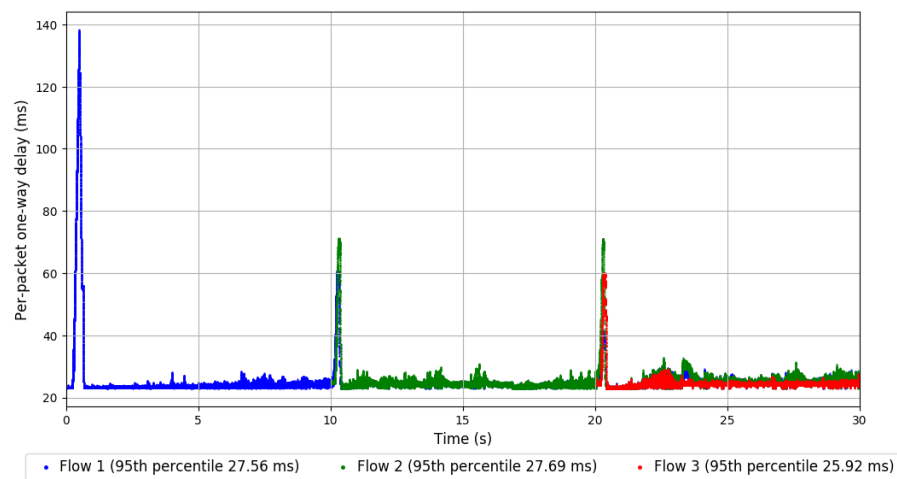
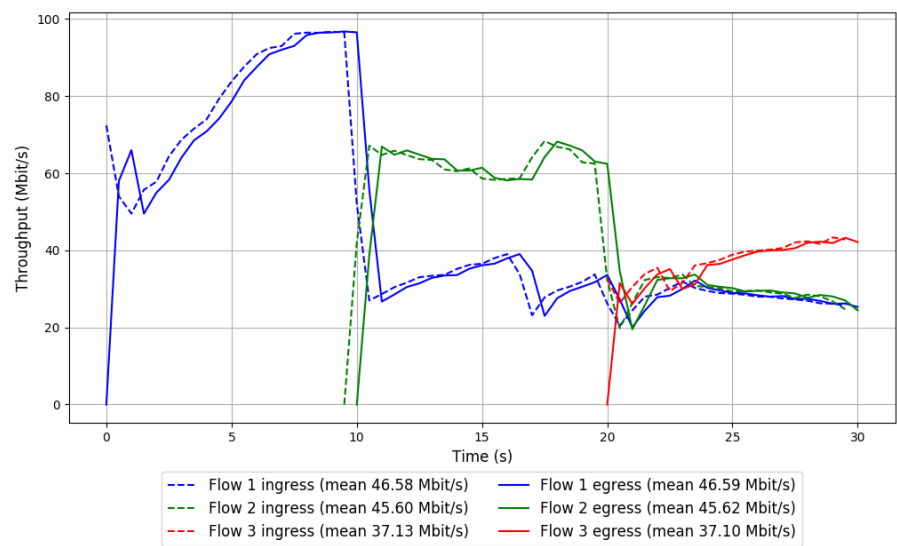


Run 3: Statistics of TCP Vegas

Start at: 2018-09-25 17:46:02
End at: 2018-09-25 17:46:32
Local clock offset: 1.56 ms
Remote clock offset: -3.893 ms

Below is generated by plot.py at 2018-09-25 18:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.32 Mbit/s
95th percentile per-packet one-way delay: 27.475 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 46.59 Mbit/s
95th percentile per-packet one-way delay: 27.556 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 27.687 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 37.10 Mbit/s
95th percentile per-packet one-way delay: 25.919 ms
Loss rate: 0.38%

Run 3: Report of TCP Vegas — Data Link

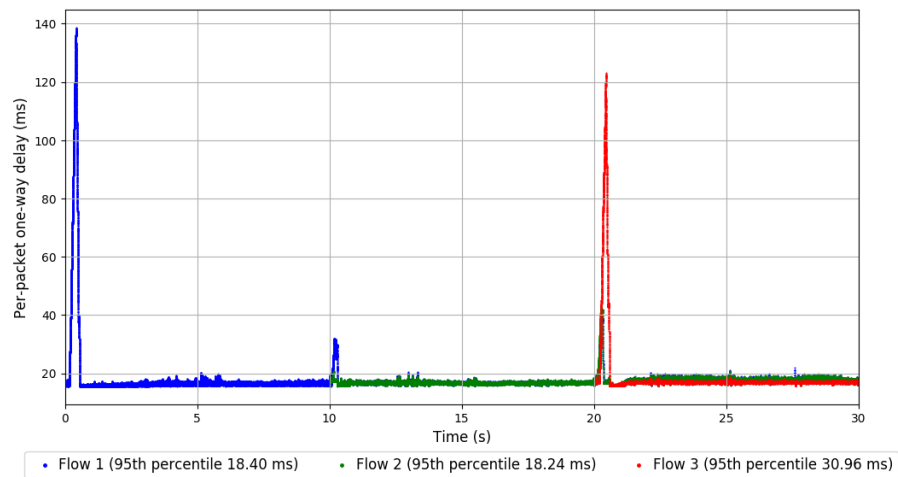
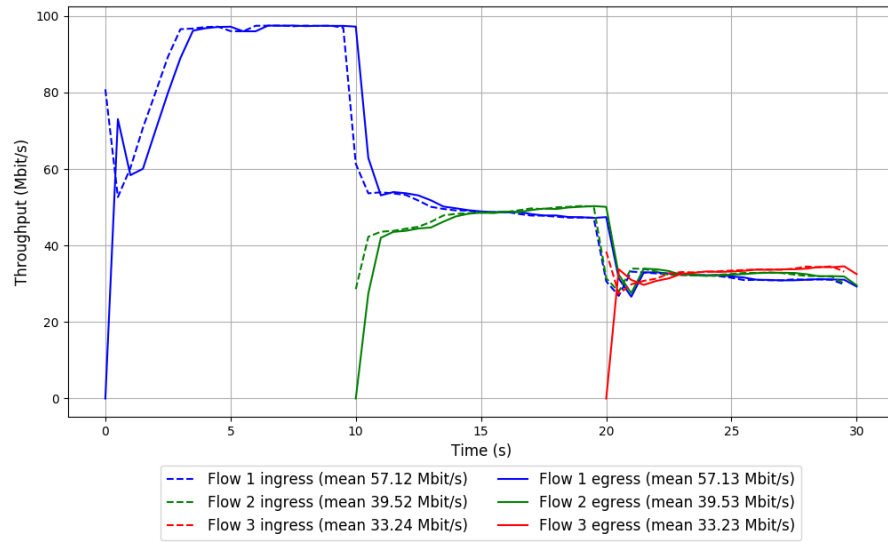


Run 4: Statistics of TCP Vegas

Start at: 2018-09-25 18:11:17
End at: 2018-09-25 18:11:47
Local clock offset: 0.48 ms
Remote clock offset: -2.584 ms

Below is generated by plot.py at 2018-09-25 18:56:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 18.353 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 18.400 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 18.243 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 30.960 ms
Loss rate: 0.29%

Run 4: Report of TCP Vegas — Data Link

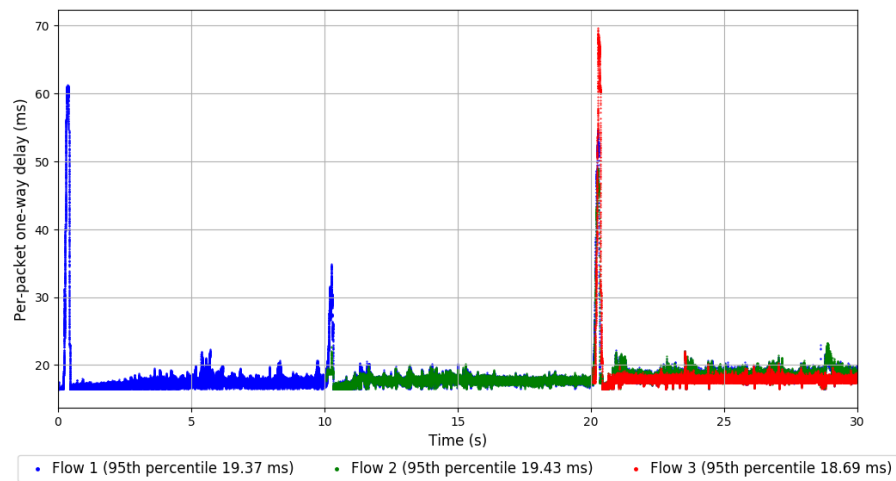
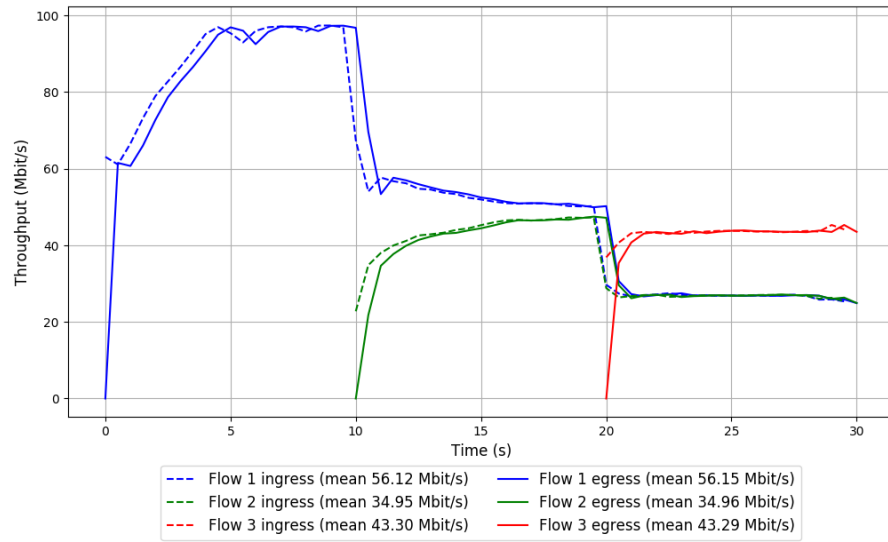


Run 5: Statistics of TCP Vegas

Start at: 2018-09-25 18:35:42
End at: 2018-09-25 18:36:12
Local clock offset: -0.741 ms
Remote clock offset: -3.767 ms

Below is generated by plot.py at 2018-09-25 18:56:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.79 Mbit/s
95th percentile per-packet one-way delay: 19.335 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 56.15 Mbit/s
95th percentile per-packet one-way delay: 19.372 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 34.96 Mbit/s
95th percentile per-packet one-way delay: 19.425 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 43.29 Mbit/s
95th percentile per-packet one-way delay: 18.692 ms
Loss rate: 0.27%

Run 5: Report of TCP Vegas — Data Link

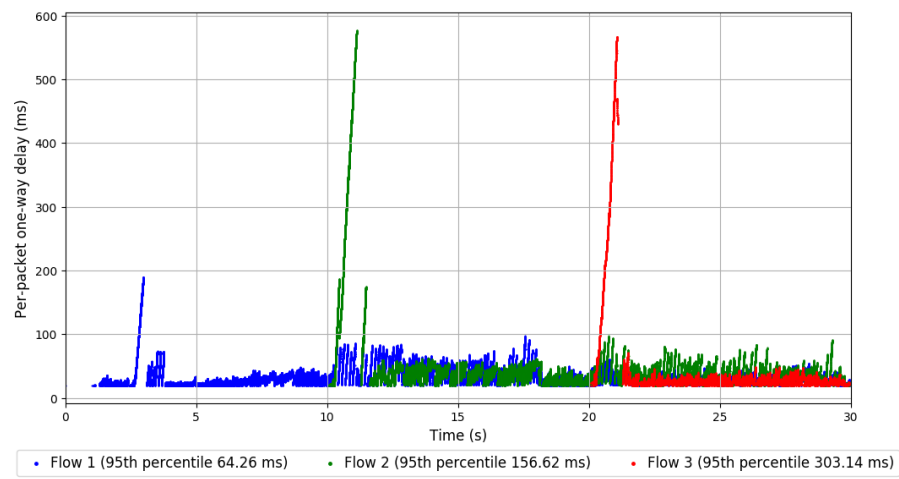
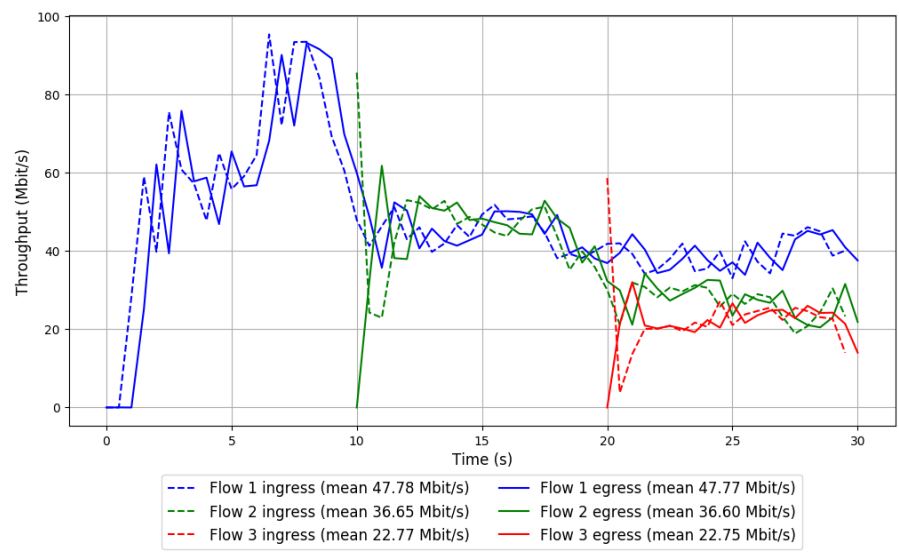


Run 1: Statistics of Verus

Start at: 2018-09-25 16:58:58
End at: 2018-09-25 16:59:28
Local clock offset: 0.43 ms
Remote clock offset: -2.972 ms

Below is generated by plot.py at 2018-09-25 18:56:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.66 Mbit/s
95th percentile per-packet one-way delay: 76.143 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 47.77 Mbit/s
95th percentile per-packet one-way delay: 64.264 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.60 Mbit/s
95th percentile per-packet one-way delay: 156.616 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 303.141 ms
Loss rate: 0.41%

Run 1: Report of Verus — Data Link

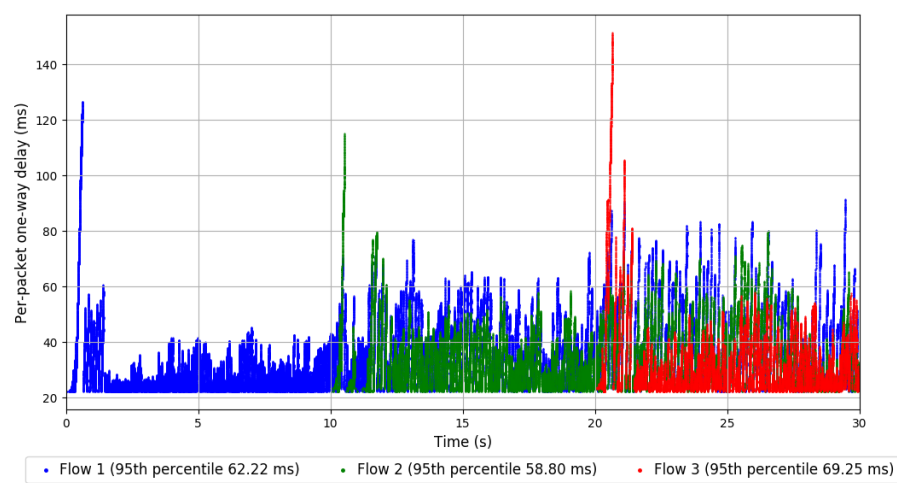
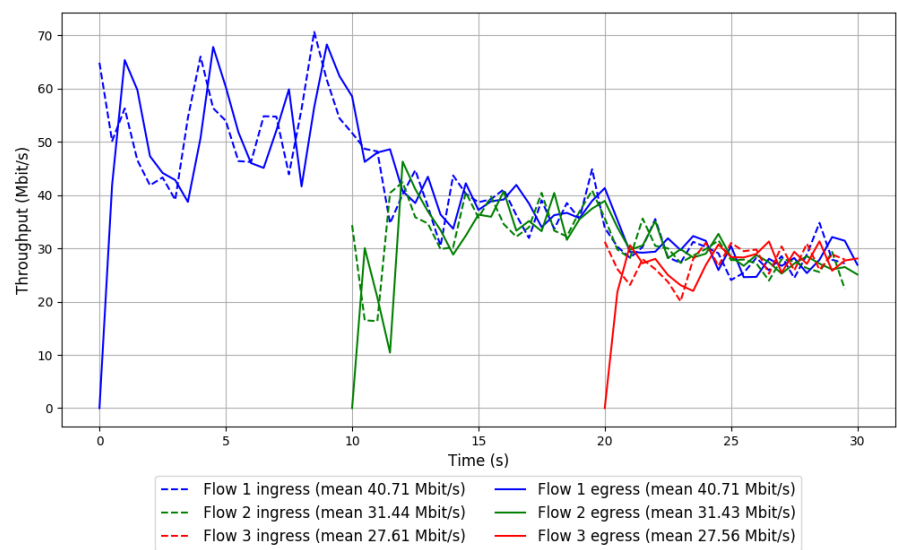


Run 2: Statistics of Verus

Start at: 2018-09-25 17:24:28
End at: 2018-09-25 17:24:58
Local clock offset: -4.708 ms
Remote clock offset: -8.858 ms

Below is generated by plot.py at 2018-09-25 18:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.76 Mbit/s
95th percentile per-packet one-way delay: 61.626 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 62.218 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 31.43 Mbit/s
95th percentile per-packet one-way delay: 58.805 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 27.56 Mbit/s
95th percentile per-packet one-way delay: 69.249 ms
Loss rate: 0.44%

Run 2: Report of Verus — Data Link

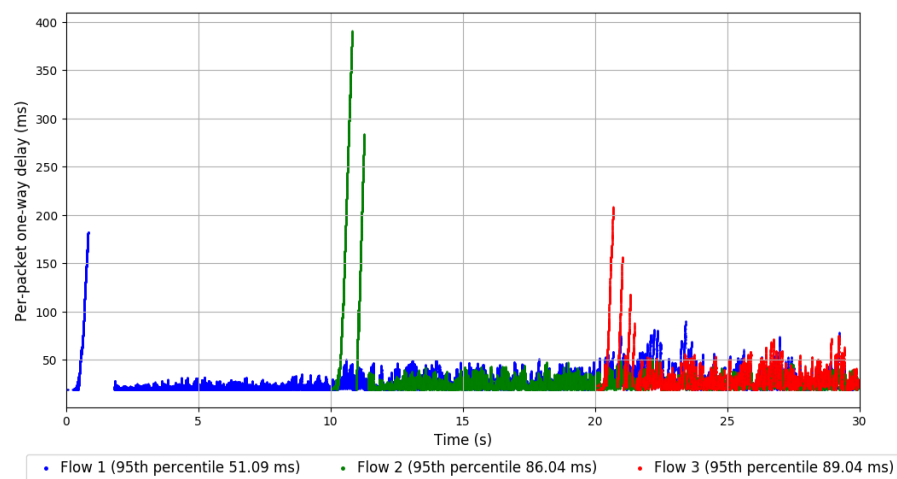
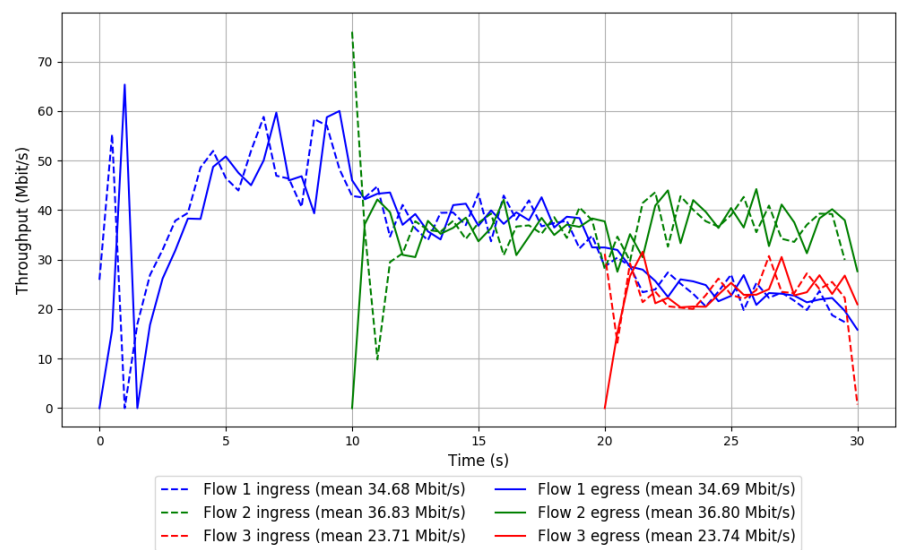


Run 3: Statistics of Verus

Start at: 2018-09-25 17:50:04
End at: 2018-09-25 17:50:34
Local clock offset: -0.832 ms
Remote clock offset: -3.225 ms

Below is generated by plot.py at 2018-09-25 18:56:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.04 Mbit/s
95th percentile per-packet one-way delay: 60.243 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 34.69 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 36.80 Mbit/s
95th percentile per-packet one-way delay: 86.037 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 89.040 ms
Loss rate: 0.78%

Run 3: Report of Verus — Data Link

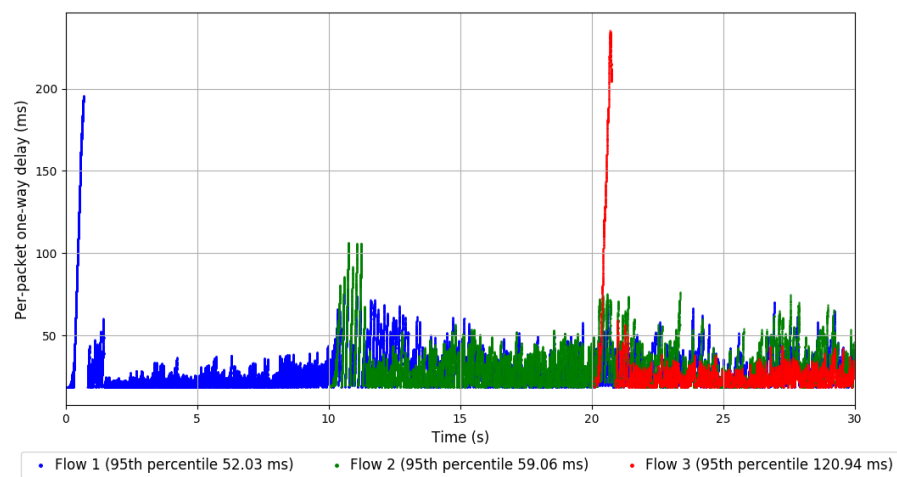
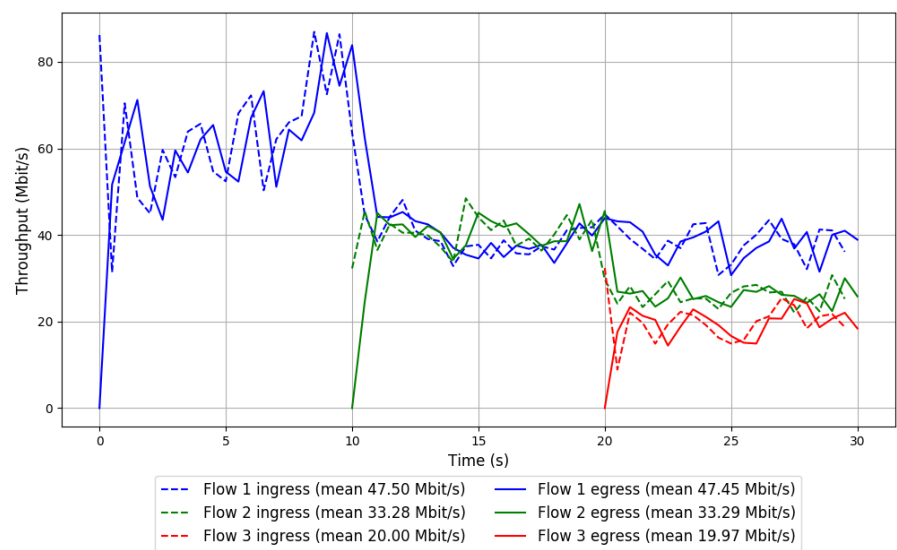


Run 4: Statistics of Verus

Start at: 2018-09-25 18:15:20
End at: 2018-09-25 18:15:50
Local clock offset: 2.426 ms
Remote clock offset: -3.405 ms

Below is generated by plot.py at 2018-09-25 18:56:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.23 Mbit/s
95th percentile per-packet one-way delay: 55.581 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 52.026 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 33.29 Mbit/s
95th percentile per-packet one-way delay: 59.057 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 19.97 Mbit/s
95th percentile per-packet one-way delay: 120.937 ms
Loss rate: 0.36%

Run 4: Report of Verus — Data Link

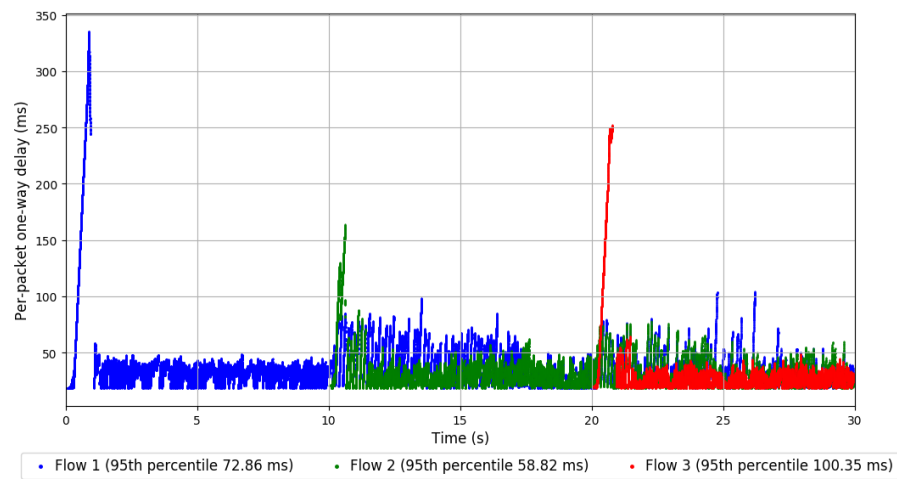
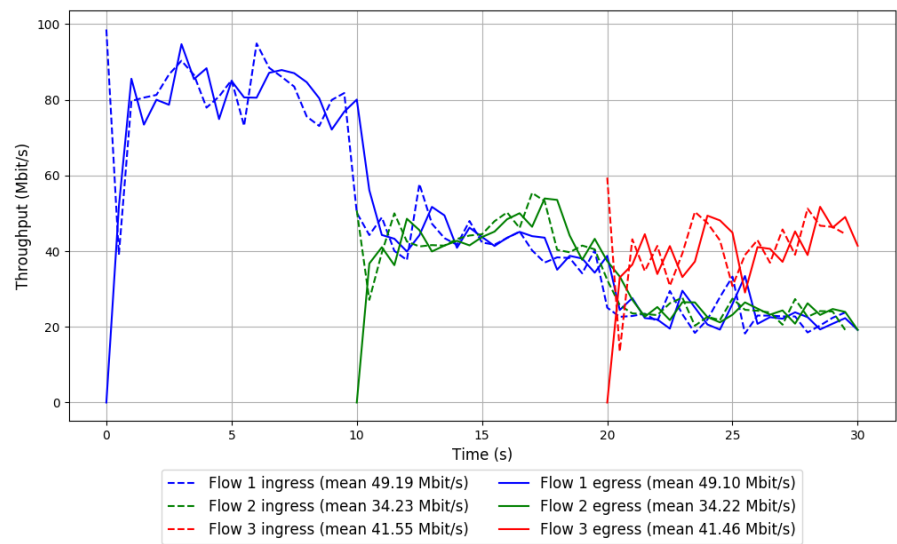


Run 5: Statistics of Verus

Start at: 2018-09-25 18:39:35
End at: 2018-09-25 18:40:05
Local clock offset: 1.691 ms
Remote clock offset: -3.444 ms

Below is generated by plot.py at 2018-09-25 18:56:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.62 Mbit/s
95th percentile per-packet one-way delay: 70.284 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 49.10 Mbit/s
95th percentile per-packet one-way delay: 72.862 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 58.821 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 41.46 Mbit/s
95th percentile per-packet one-way delay: 100.349 ms
Loss rate: 0.47%

Run 5: Report of Verus — Data Link

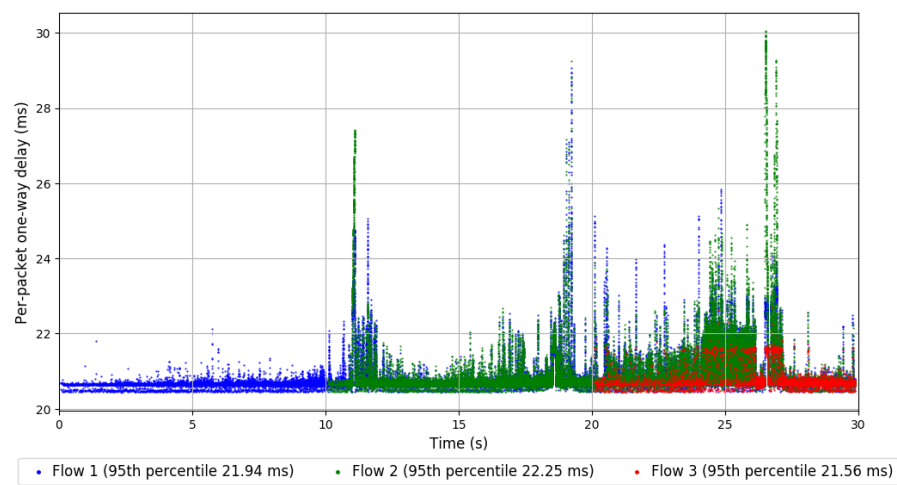
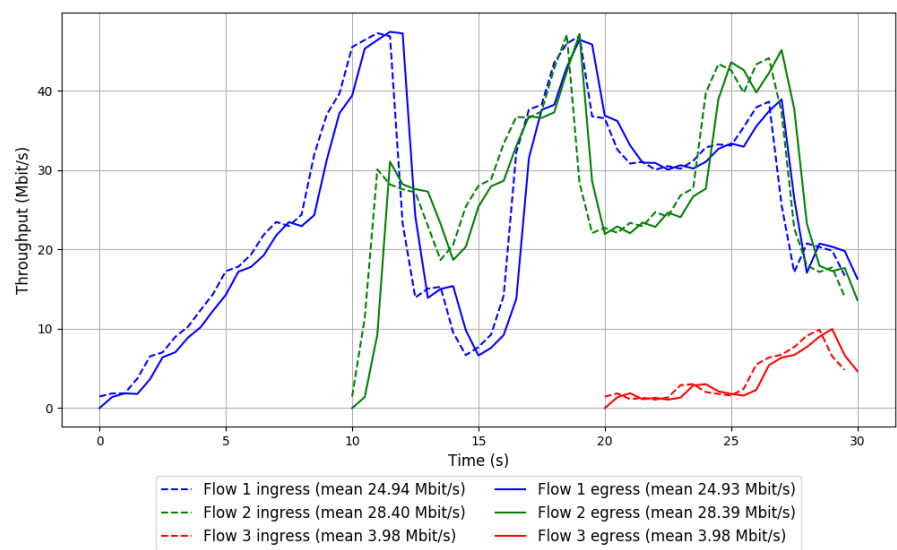


Run 1: Statistics of PCC-Vivace

Start at: 2018-09-25 16:36:43
End at: 2018-09-25 16:37:13
Local clock offset: -0.171 ms
Remote clock offset: -5.227 ms

Below is generated by plot.py at 2018-09-25 18:56:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.12 Mbit/s
95th percentile per-packet one-way delay: 22.065 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 21.943 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 22.254 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 21.560 ms
Loss rate: 0.47%

Run 1: Report of PCC-Vivace — Data Link

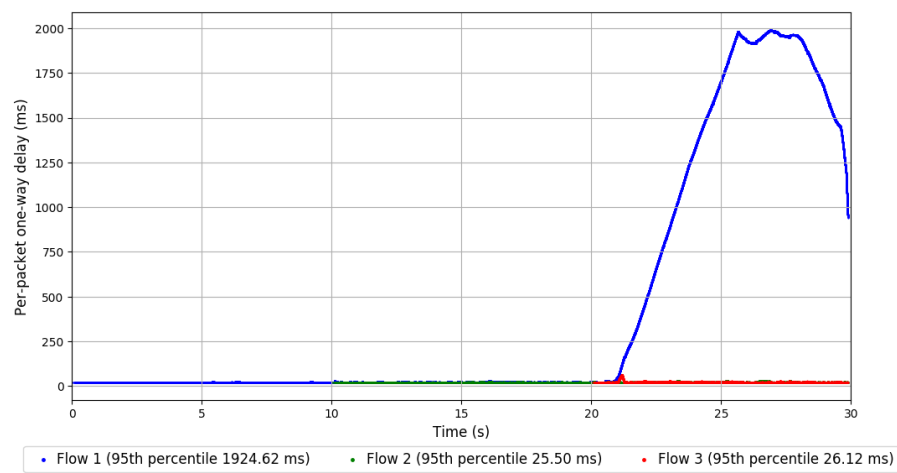
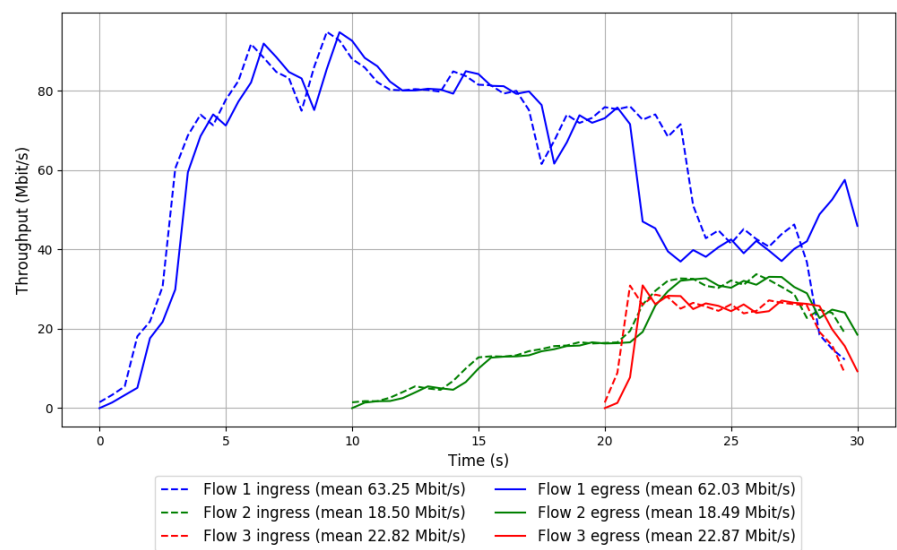


Run 2: Statistics of PCC-Vivace

Start at: 2018-09-25 17:02:59
End at: 2018-09-25 17:03:29
Local clock offset: 0.578 ms
Remote clock offset: -4.261 ms

Below is generated by plot.py at 2018-09-25 18:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.86 Mbit/s
95th percentile per-packet one-way delay: 1852.366 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 62.03 Mbit/s
95th percentile per-packet one-way delay: 1924.620 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 18.49 Mbit/s
95th percentile per-packet one-way delay: 25.503 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 22.87 Mbit/s
95th percentile per-packet one-way delay: 26.125 ms
Loss rate: 0.08%

Run 2: Report of PCC-Vivace — Data Link

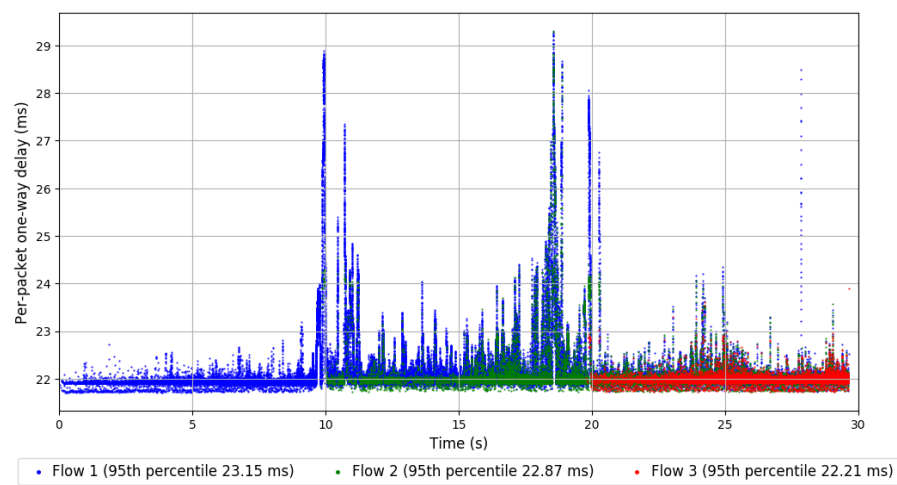
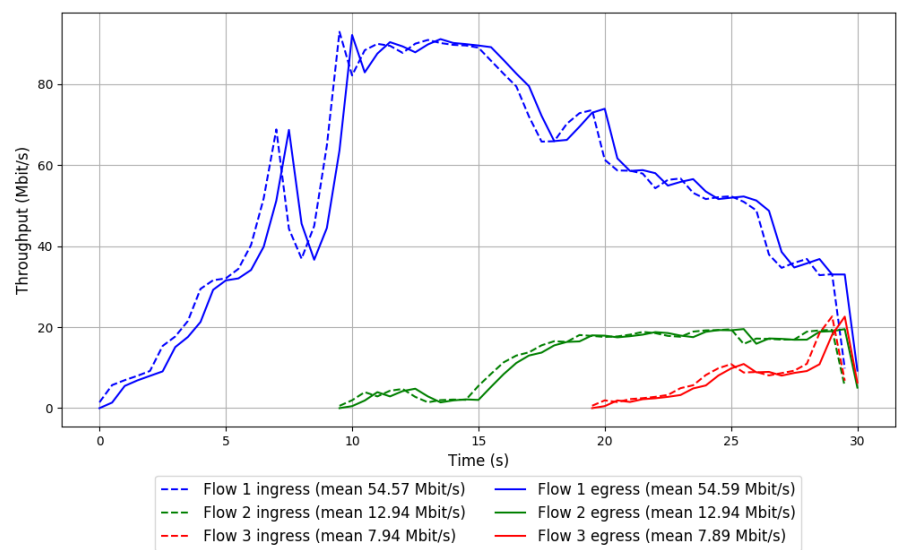


Run 3: Statistics of PCC-Vivace

Start at: 2018-09-25 17:28:19
End at: 2018-09-25 17:28:49
Local clock offset: -0.947 ms
Remote clock offset: -4.507 ms

Below is generated by plot.py at 2018-09-25 18:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.88 Mbit/s
95th percentile per-packet one-way delay: 23.060 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 54.59 Mbit/s
95th percentile per-packet one-way delay: 23.146 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 22.874 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 22.212 ms
Loss rate: 0.95%

Run 3: Report of PCC-Vivace — Data Link

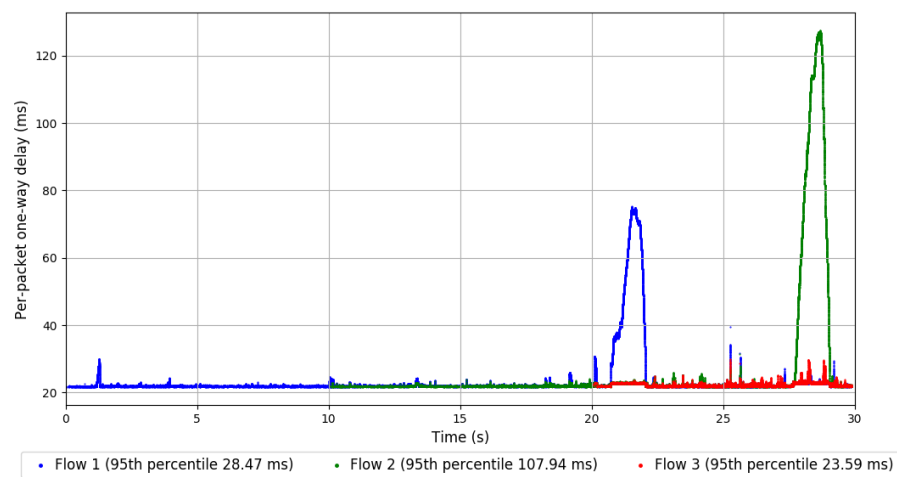
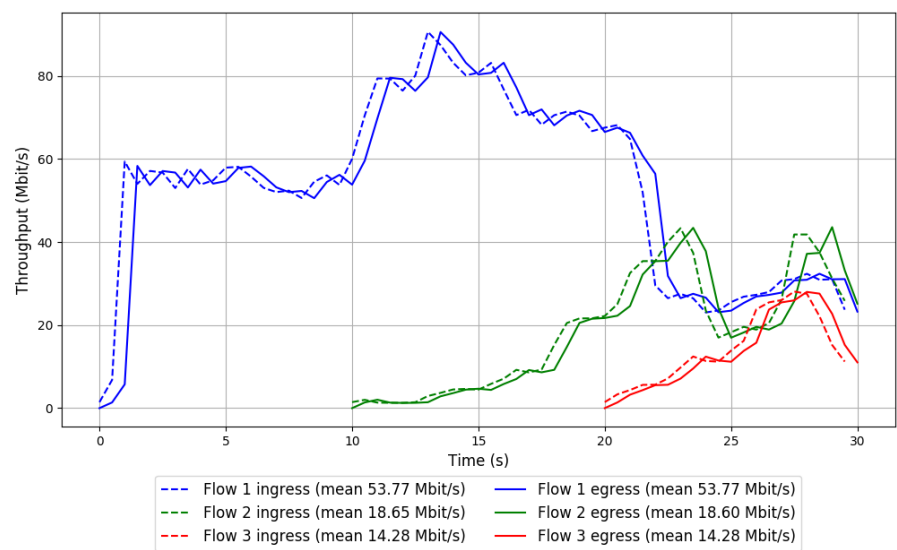


Run 4: Statistics of PCC-Vivace

Start at: 2018-09-25 17:54:01
End at: 2018-09-25 17:54:31
Local clock offset: 1.194 ms
Remote clock offset: -3.602 ms

Below is generated by plot.py at 2018-09-25 18:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.85 Mbit/s
95th percentile per-packet one-way delay: 37.223 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 28.473 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 107.941 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 14.28 Mbit/s
95th percentile per-packet one-way delay: 23.587 ms
Loss rate: 0.29%

Run 4: Report of PCC-Vivace — Data Link

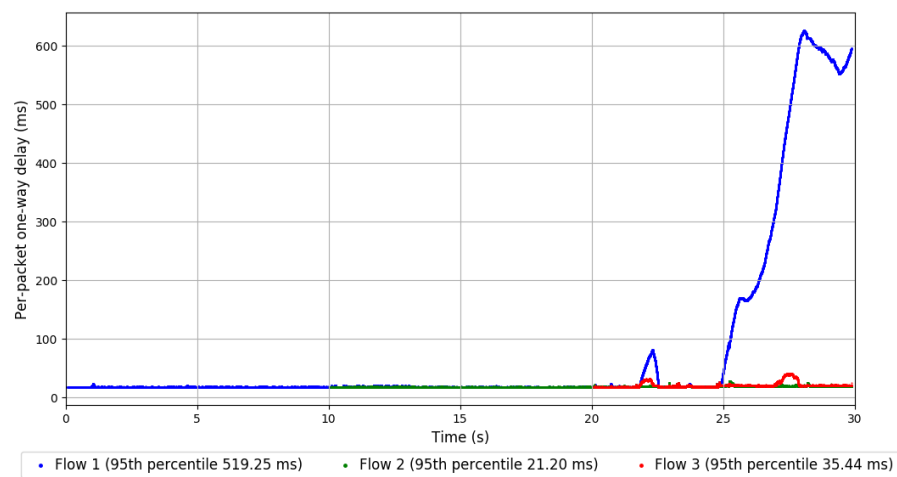
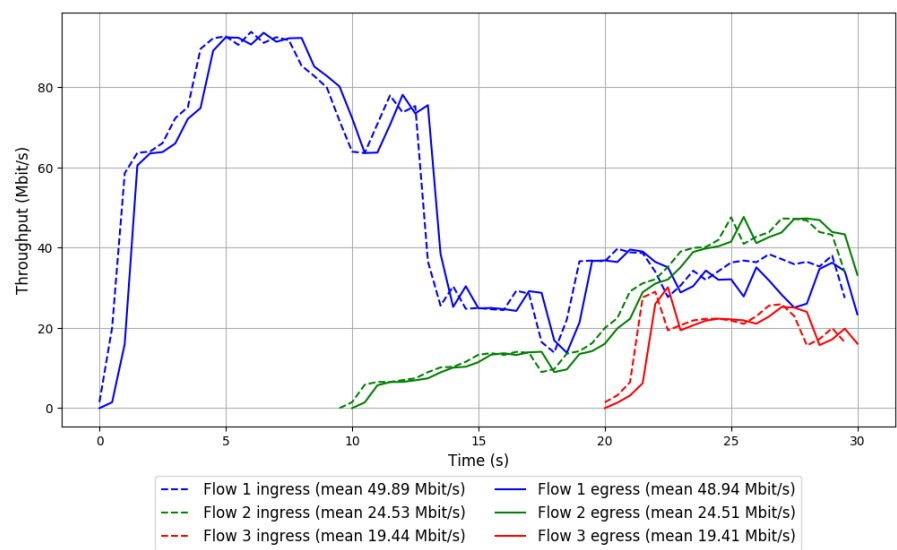


Run 5: Statistics of PCC-Vivace

Start at: 2018-09-25 18:19:11
End at: 2018-09-25 18:19:41
Local clock offset: 2.466 ms
Remote clock offset: -2.773 ms

Below is generated by plot.py at 2018-09-25 18:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.64 Mbit/s
95th percentile per-packet one-way delay: 191.274 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 48.94 Mbit/s
95th percentile per-packet one-way delay: 519.255 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 21.203 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 19.41 Mbit/s
95th percentile per-packet one-way delay: 35.437 ms
Loss rate: 0.44%

Run 5: Report of PCC-Vivace — Data Link

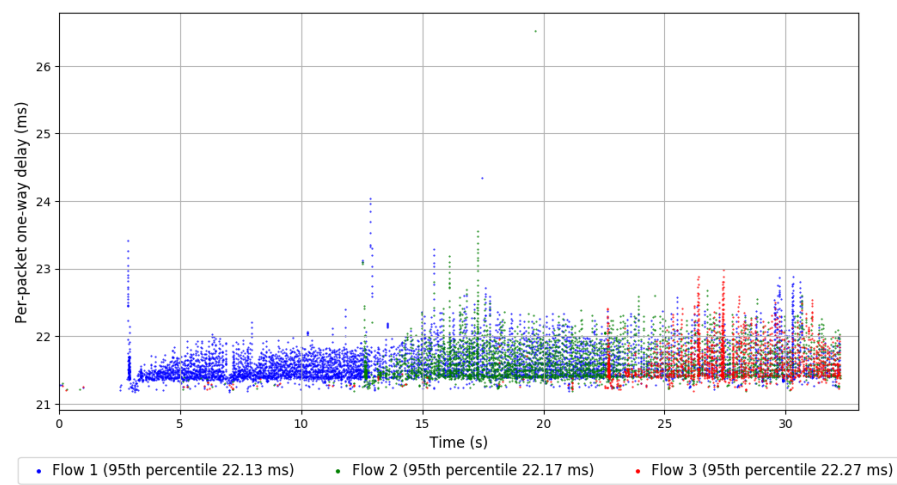
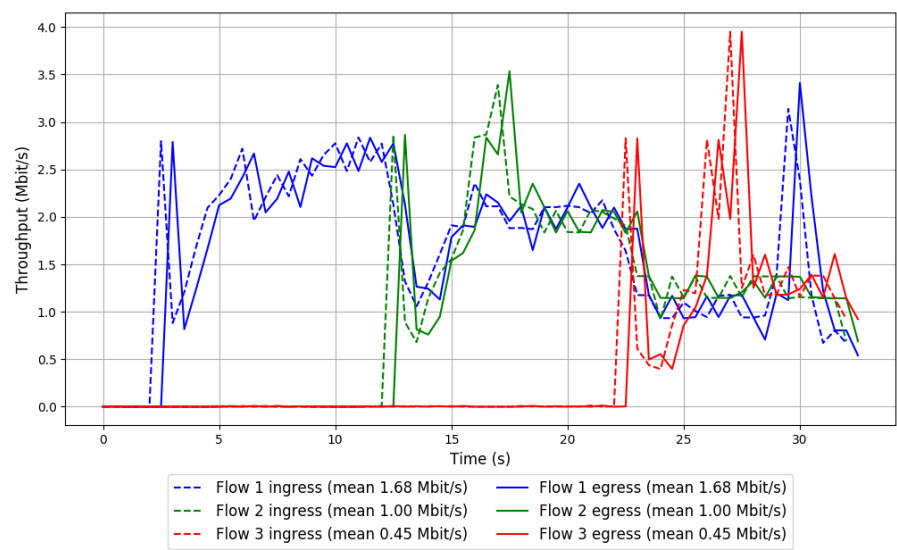


Run 1: Statistics of WebRTC media

Start at: 2018-09-25 16:51:20
End at: 2018-09-25 16:51:50
Local clock offset: 1.21 ms
Remote clock offset: -3.994 ms

Below is generated by plot.py at 2018-09-25 18:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 22.168 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 22.134 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 22.173 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 22.275 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

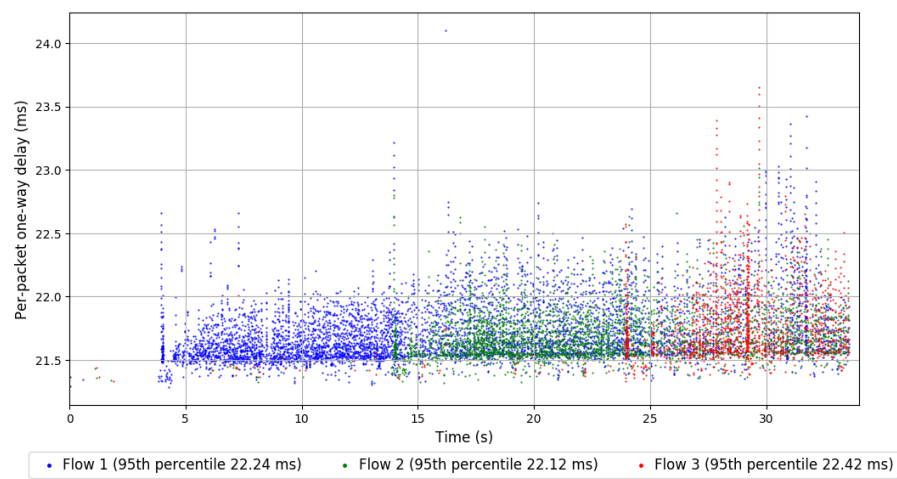
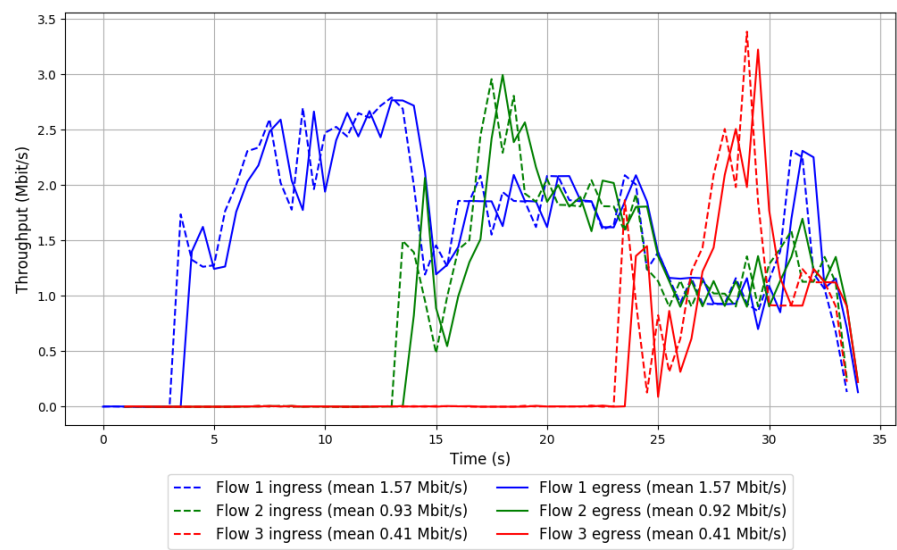


Run 2: Statistics of WebRTC media

Start at: 2018-09-25 17:16:51
End at: 2018-09-25 17:17:21
Local clock offset: 0.771 ms
Remote clock offset: -3.132 ms

Below is generated by plot.py at 2018-09-25 18:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 22.225 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 22.239 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 22.116 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 22.416 ms
Loss rate: 0.01%

Run 2: Report of WebRTC media — Data Link

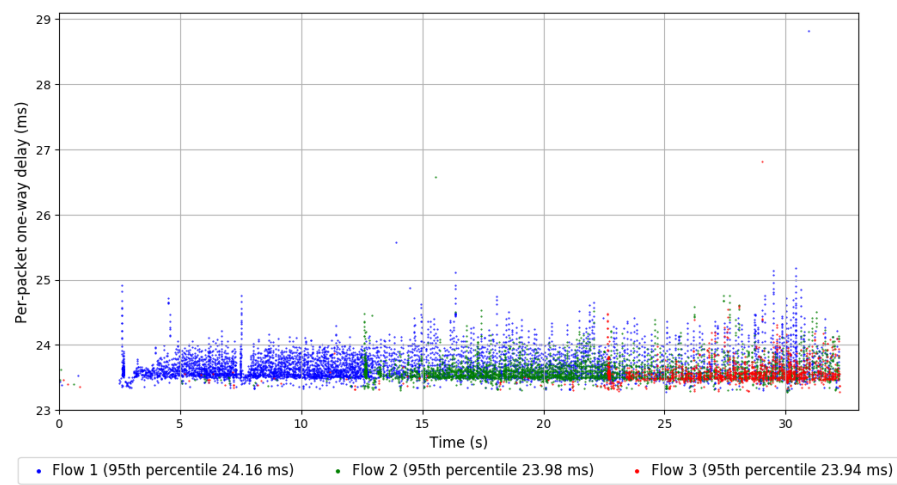
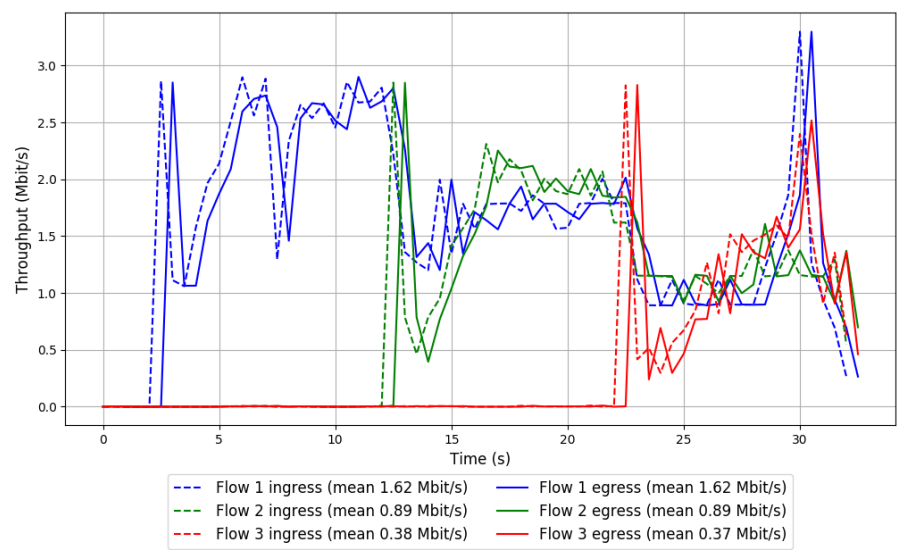


Run 3: Statistics of WebRTC media

Start at: 2018-09-25 17:42:20
End at: 2018-09-25 17:42:50
Local clock offset: 1.339 ms
Remote clock offset: -4.111 ms

Below is generated by plot.py at 2018-09-25 18:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 24.086 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 24.157 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 23.976 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 23.943 ms
Loss rate: 0.71%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-09-25 18:07:38

End at: 2018-09-25 18:08:08

Local clock offset: 3.568 ms

Remote clock offset: -3.15 ms

Below is generated by plot.py at 2018-09-25 18:56:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 19.699 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 19.699 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 19.722 ms

Loss rate: 0.00%

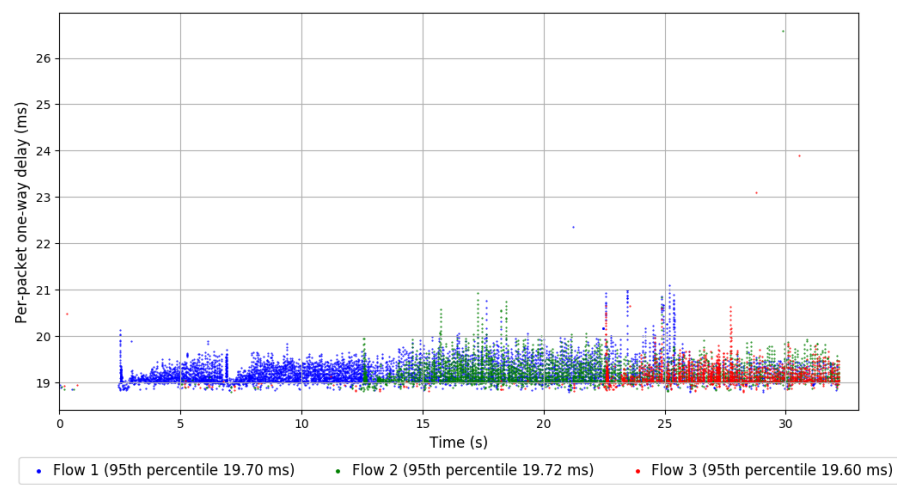
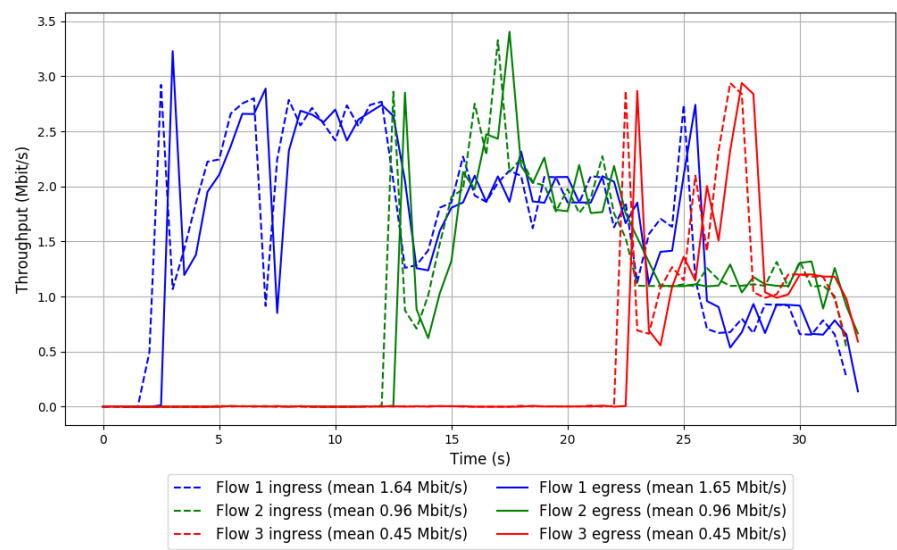
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 19.601 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-09-25 18:32:01
End at: 2018-09-25 18:32:31
Local clock offset: 1.226 ms
Remote clock offset: -2.775 ms

Below is generated by plot.py at 2018-09-25 18:56:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 18.182 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 18.152 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 18.222 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 18.130 ms
Loss rate: 0.09%

Run 5: Report of WebRTC media — Data Link

