

Pantheon Report

Generated at 2018-12-02 07:02:52 (UTC).

Data path: AWS Korea on `ens5` (*local*) → China on `eno1` (*remote*).

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 `ntp.nict.jp` and have been applied to correct the timestamps in logs.

System info:

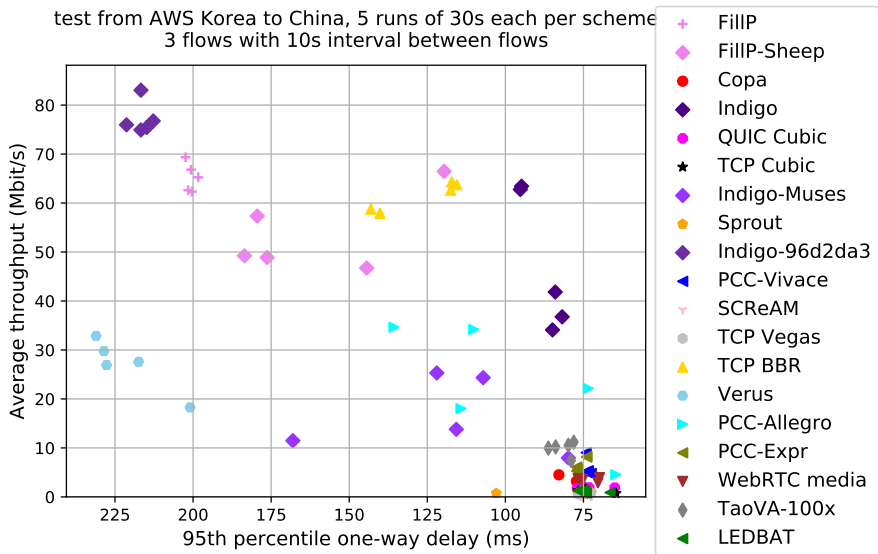
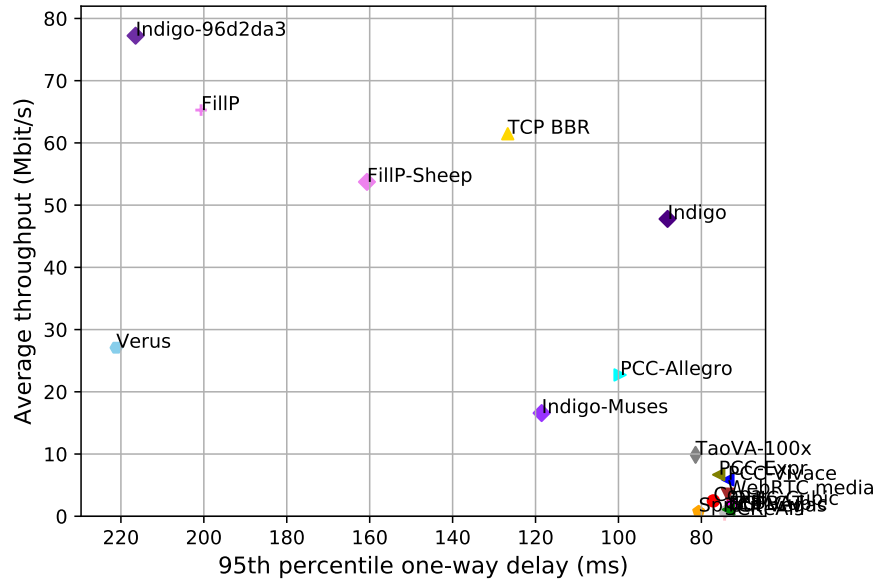
```
Linux 4.15.0-1027-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
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
```

test from AWS Korea to China, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



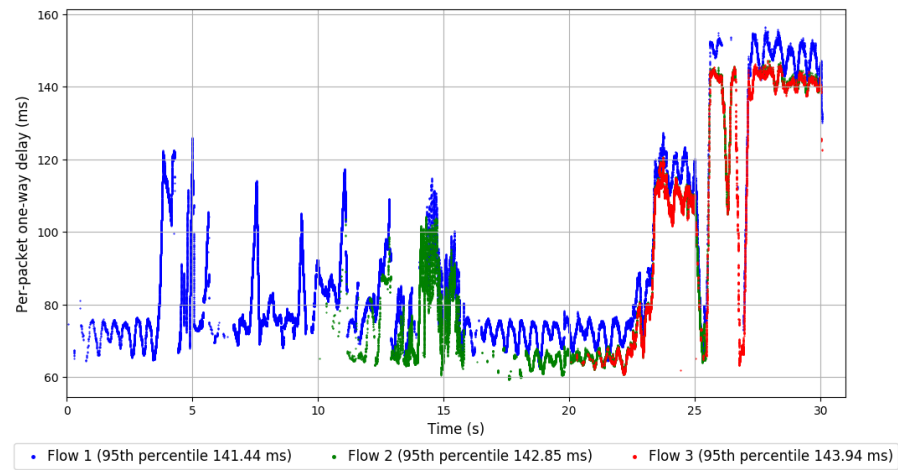
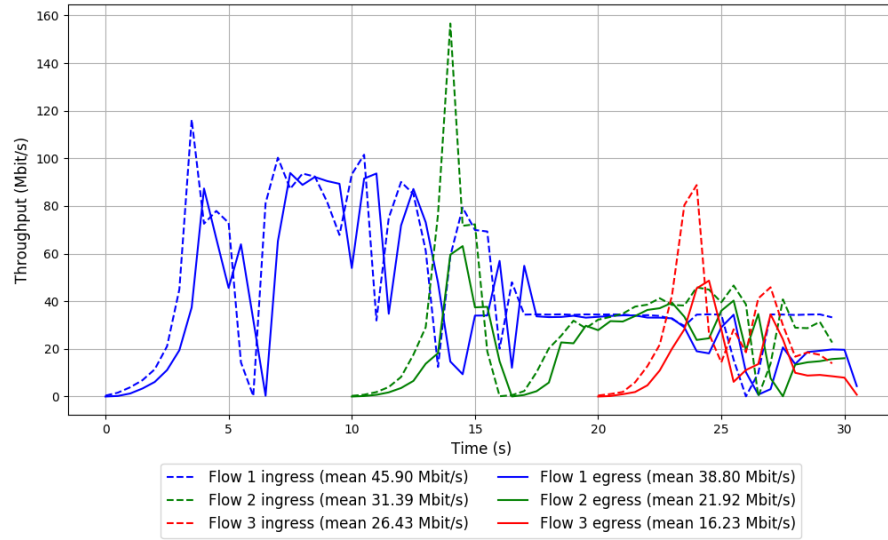
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	39.55	27.46	11.48	123.75	128.01	122.65	15.24	23.51	25.74
Copa	5	0.01	2.36	2.70	71.31	77.25	75.80	96.40	7.11	5.50
TCP Cubic	5	0.50	0.47	0.70	69.52	70.05	73.02	3.08	3.25	2.88
FillP	5	36.92	34.36	16.61	195.93	202.01	198.76	11.36	12.89	18.91
FillP-Sheep	5	28.09	32.70	11.71	156.73	162.51	166.49	3.53	3.20	3.57
Indigo	5	26.33	21.00	23.89	86.28	85.59	86.75	6.53	7.78	11.54
Indigo-96d2da3	5	49.94	30.16	23.65	211.92	216.81	215.83	38.91	47.51	55.08
LEDBAT	5	0.57	0.56	0.45	73.74	68.22	70.09	3.30	2.66	3.64
Indigo-Muses	5	7.34	9.49	9.16	129.50	89.45	107.38	4.64	3.66	3.89
PCC-Allegro	5	5.48	29.62	11.43	72.95	98.62	96.12	7.97	18.61	17.59
PCC-Expr	5	0.01	7.12	5.86	74.00	75.65	76.06	81.39	21.89	33.88
QUIC Cubic	5	0.85	0.86	1.30	70.12	68.29	71.46	3.35	3.80	3.35
SCReAM	5	0.09	0.11	0.14	69.18	72.84	72.98	3.59	3.51	3.79
Sprout	5	0.35	0.41	0.42	77.30	82.78	75.39	3.54	3.25	3.12
TaoVA-100x	5	5.03	3.76	7.08	79.79	86.25	79.85	11.56	17.76	25.92
TCP Vegas	5	0.35	0.39	0.50	69.56	69.63	72.89	3.13	3.06	3.06
Verus	5	10.78	18.18	13.44	179.84	193.29	191.55	16.93	47.73	31.80
PCC-Vivace	5	2.63	3.46	2.80	67.95	72.54	70.73	3.02	3.04	3.11
WebRTC media	5	2.06	1.24	0.26	69.83	69.91	73.19	3.58	3.32	3.35

Run 1: Statistics of TCP BBR

Start at: 2018-12-02 05:07:44
End at: 2018-12-02 05:08:14
Local clock offset: 3.009 ms
Remote clock offset: 22.647 ms

Below is generated by plot.py at 2018-12-02 06:59:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 143.067 ms
Loss rate: 22.30%
-- Flow 1:
Average throughput: 38.80 Mbit/s
95th percentile per-packet one-way delay: 141.444 ms
Loss rate: 15.50%
-- Flow 2:
Average throughput: 21.92 Mbit/s
95th percentile per-packet one-way delay: 142.850 ms
Loss rate: 30.39%
-- Flow 3:
Average throughput: 16.23 Mbit/s
95th percentile per-packet one-way delay: 143.943 ms
Loss rate: 38.54%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-12-02 05:34:31

End at: 2018-12-02 05:35:01

Local clock offset: 0.281 ms

Remote clock offset: 29.22 ms

Below is generated by plot.py at 2018-12-02 06:59:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 117.208 ms

Loss rate: 14.69%

-- Flow 1:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 112.040 ms

Loss rate: 12.51%

-- Flow 2:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 121.063 ms

Loss rate: 18.63%

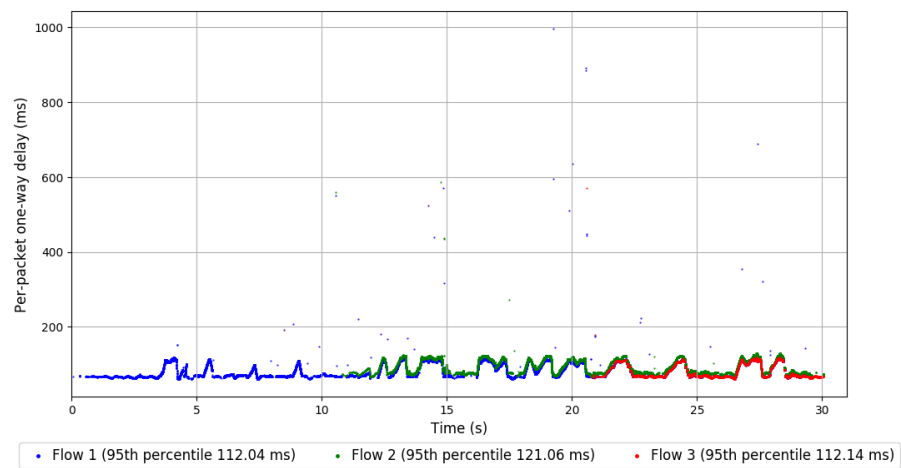
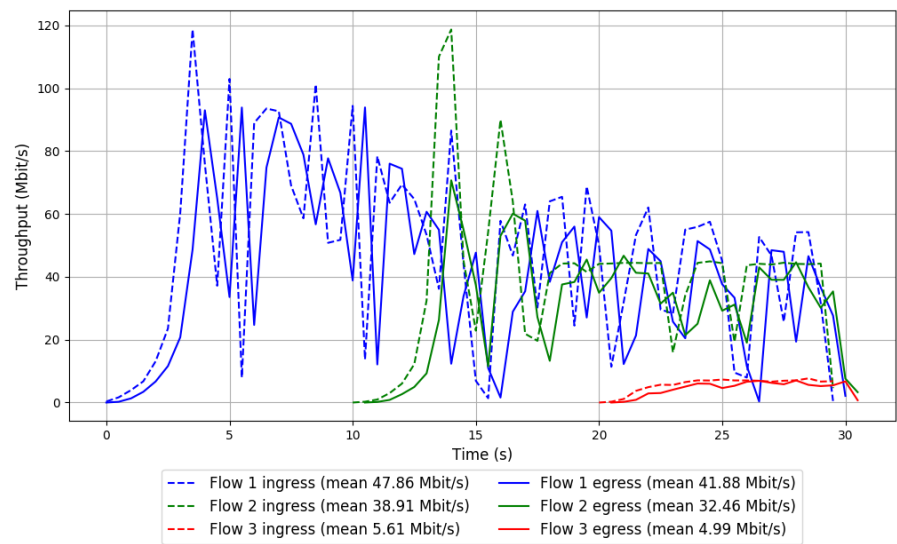
-- Flow 3:

Average throughput: 4.99 Mbit/s

95th percentile per-packet one-way delay: 112.143 ms

Loss rate: 15.53%

Run 2: Report of TCP BBR — Data Link

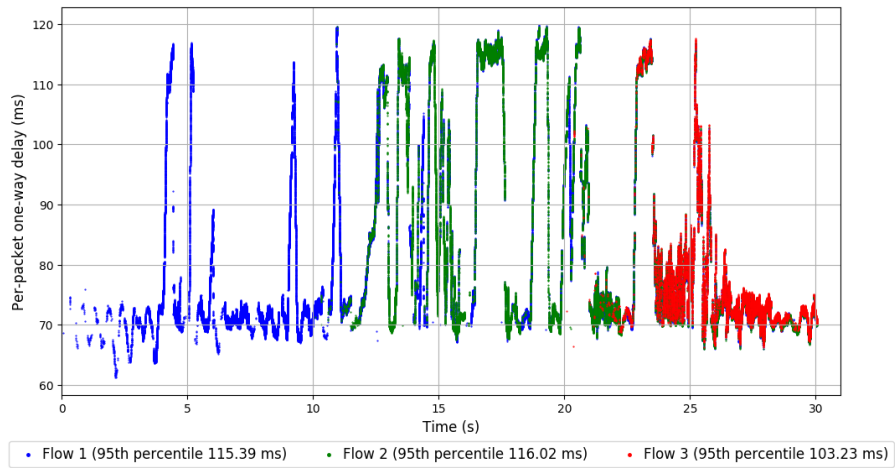
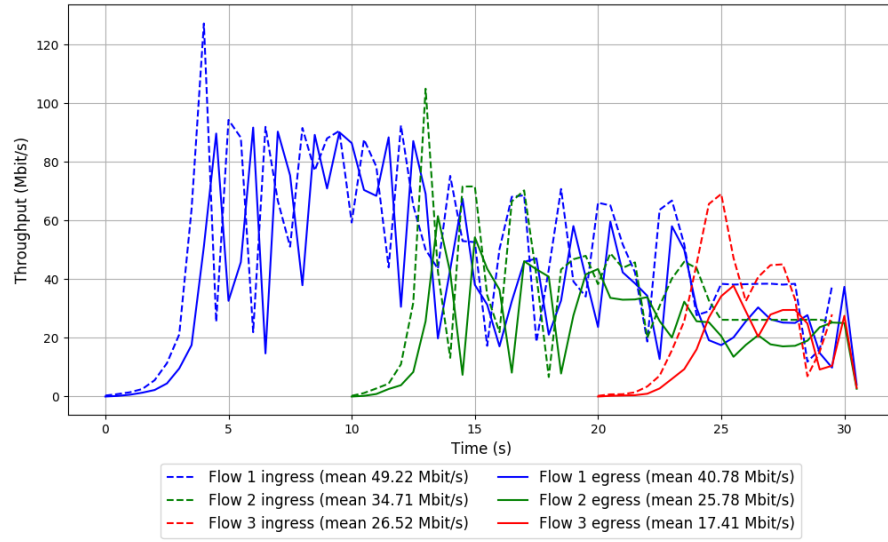


Run 3: Statistics of TCP BBR

Start at: 2018-12-02 06:01:04
End at: 2018-12-02 06:01:34
Local clock offset: -10.706 ms
Remote clock offset: 38.277 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.74 Mbit/s
95th percentile per-packet one-way delay: 115.552 ms
Loss rate: 21.48%
-- Flow 1:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 115.386 ms
Loss rate: 17.16%
-- Flow 2:
Average throughput: 25.78 Mbit/s
95th percentile per-packet one-way delay: 116.017 ms
Loss rate: 25.75%
-- Flow 3:
Average throughput: 17.41 Mbit/s
95th percentile per-packet one-way delay: 103.229 ms
Loss rate: 34.44%

Run 3: Report of TCP BBR — Data Link

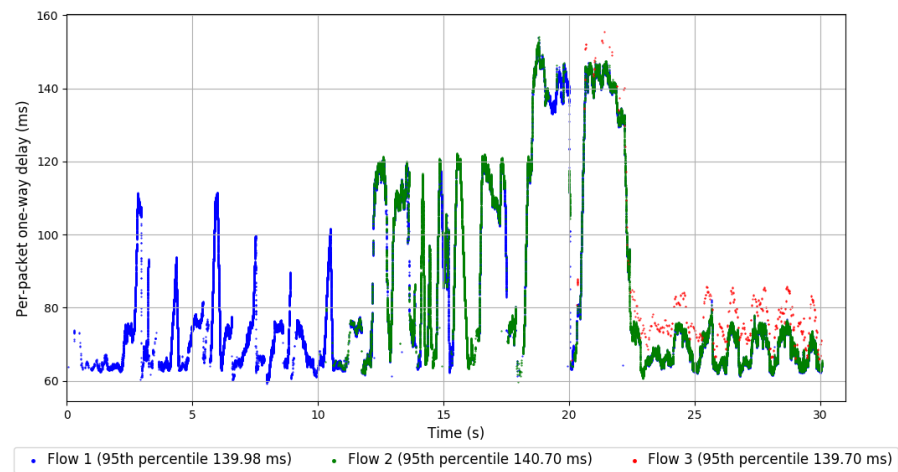
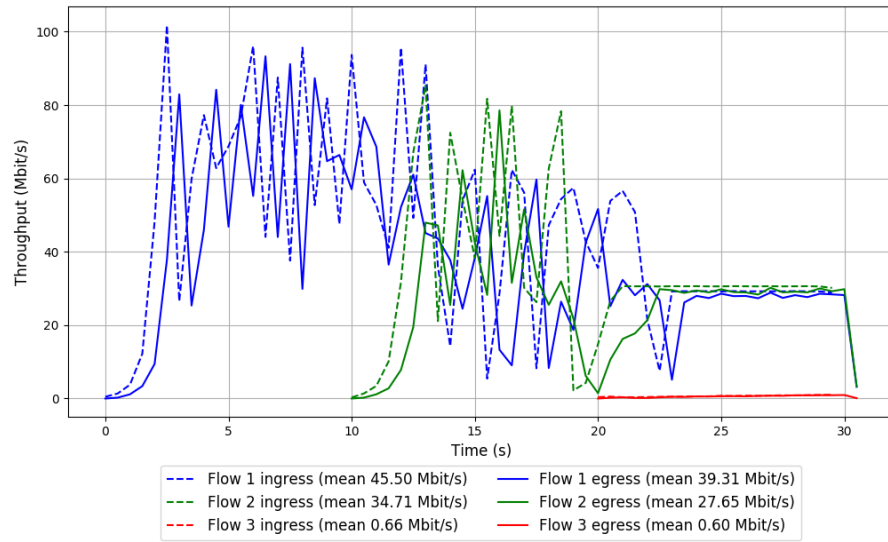


Run 4: Statistics of TCP BBR

Start at: 2018-12-02 06:28:15
End at: 2018-12-02 06:28:45
Local clock offset: -17.443 ms
Remote clock offset: 41.873 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 140.170 ms
Loss rate: 15.86%
-- Flow 1:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 139.983 ms
Loss rate: 13.61%
-- Flow 2:
Average throughput: 27.65 Mbit/s
95th percentile per-packet one-way delay: 140.703 ms
Loss rate: 20.35%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 139.698 ms
Loss rate: 9.25%

Run 4: Report of TCP BBR — Data Link

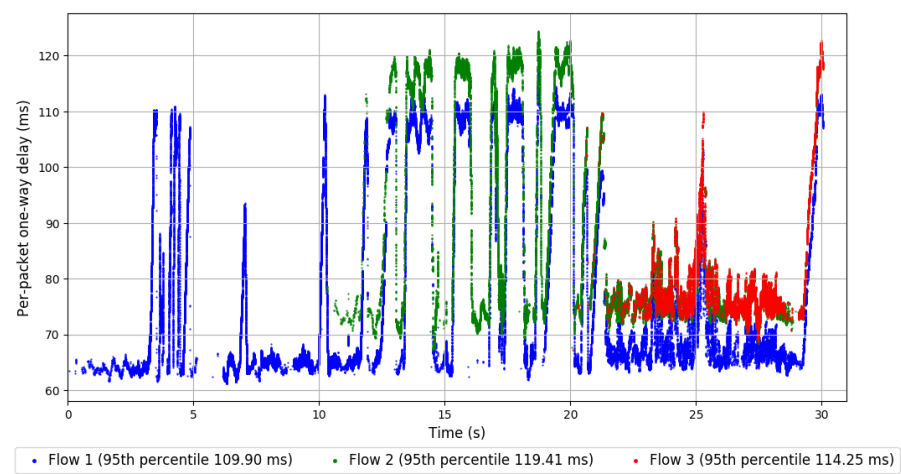
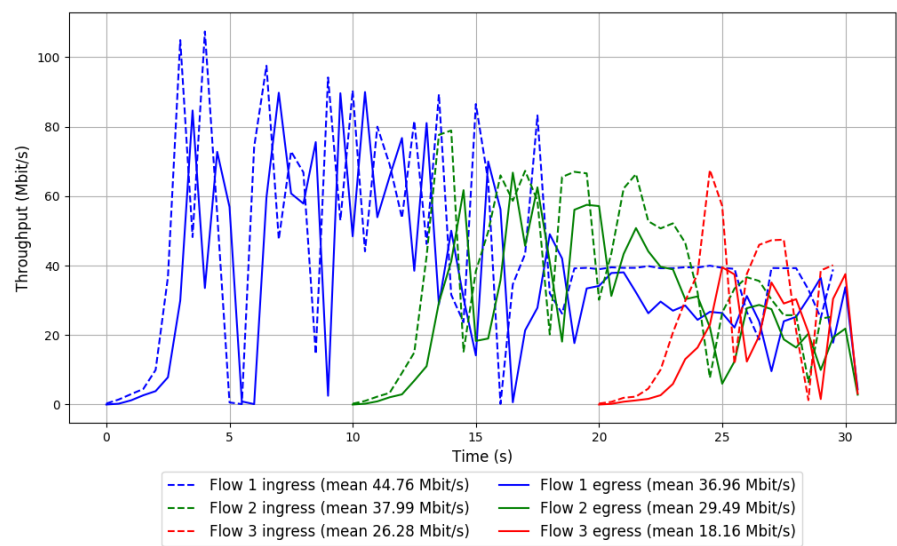


Run 5: Statistics of TCP BBR

Start at: 2018-12-02 06:55:34
End at: 2018-12-02 06:56:04
Local clock offset: -7.292 ms
Remote clock offset: -2.891 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.63 Mbit/s
95th percentile per-packet one-way delay: 117.520 ms
Loss rate: 20.52%
-- Flow 1:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 109.897 ms
Loss rate: 17.41%
-- Flow 2:
Average throughput: 29.49 Mbit/s
95th percentile per-packet one-way delay: 119.413 ms
Loss rate: 22.41%
-- Flow 3:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 114.251 ms
Loss rate: 30.92%

Run 5: Report of TCP BBR — Data Link

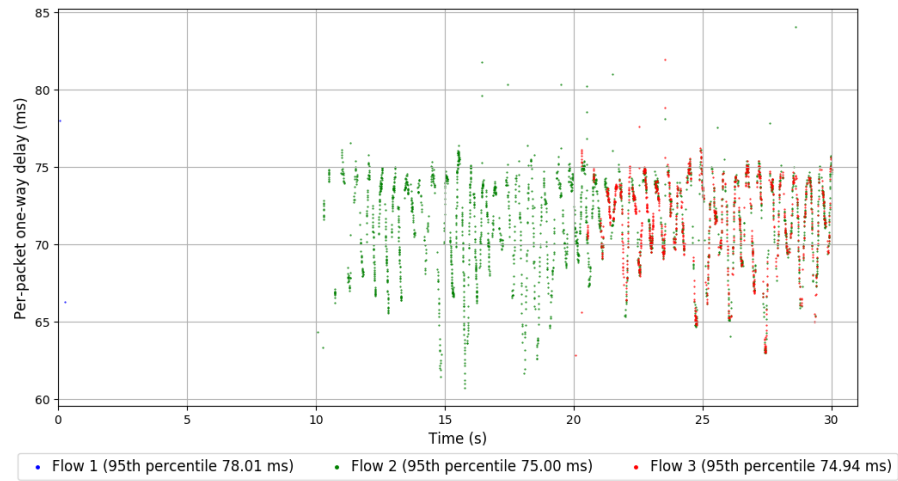
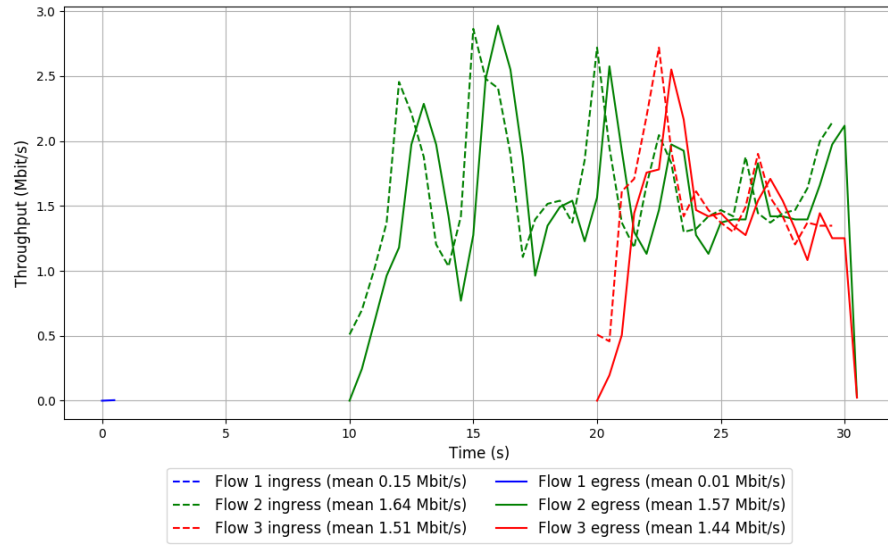


Run 1: Statistics of Copa

Start at: 2018-12-02 04:57:42
End at: 2018-12-02 04:58:12
Local clock offset: 2.879 ms
Remote clock offset: 31.956 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 74.973 ms
Loss rate: 4.27%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 78.011 ms
Loss rate: 94.63%
-- Flow 2:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 75.000 ms
Loss rate: 3.94%
-- Flow 3:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 74.936 ms
Loss rate: 4.74%

Run 1: Report of Copa — Data Link

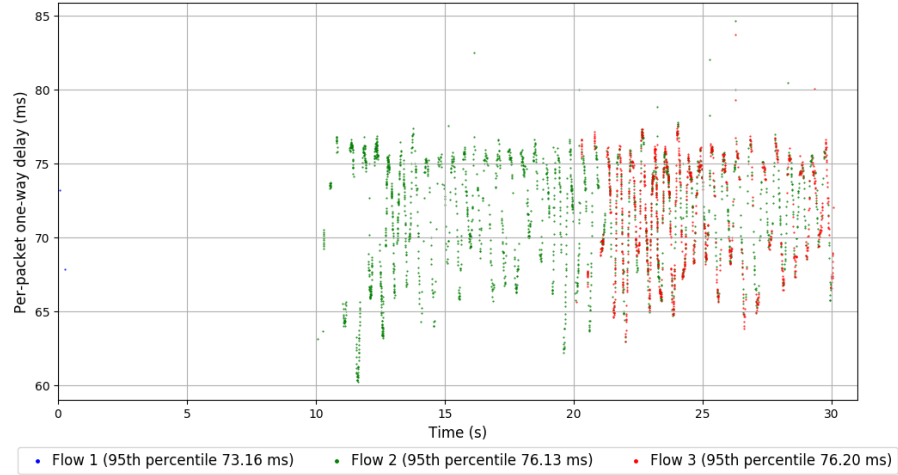
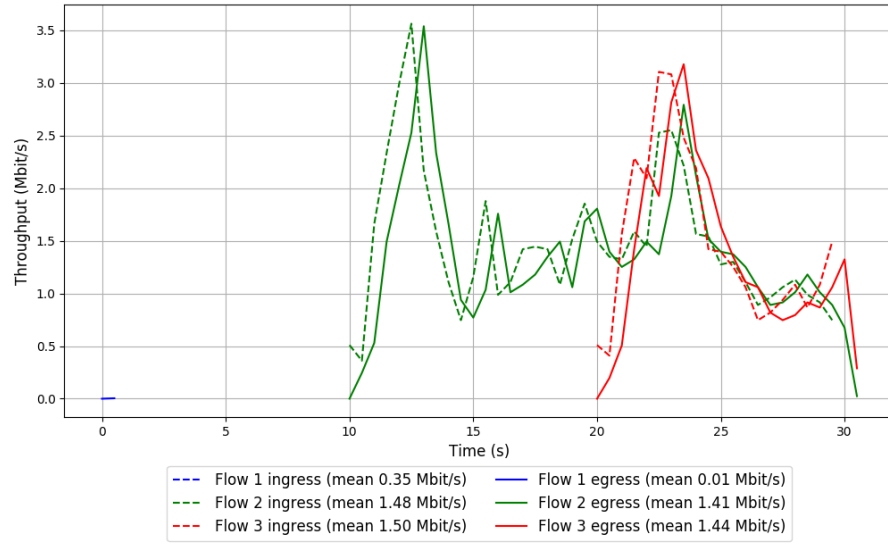


Run 2: Statistics of Copa

Start at: 2018-12-02 05:24:27
End at: 2018-12-02 05:24:57
Local clock offset: 1.465 ms
Remote clock offset: 16.708 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 76.160 ms
Loss rate: 4.33%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 73.160 ms
Loss rate: 97.24%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 76.129 ms
Loss rate: 4.21%
-- Flow 3:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 76.197 ms
Loss rate: 4.11%

Run 2: Report of Copa — Data Link

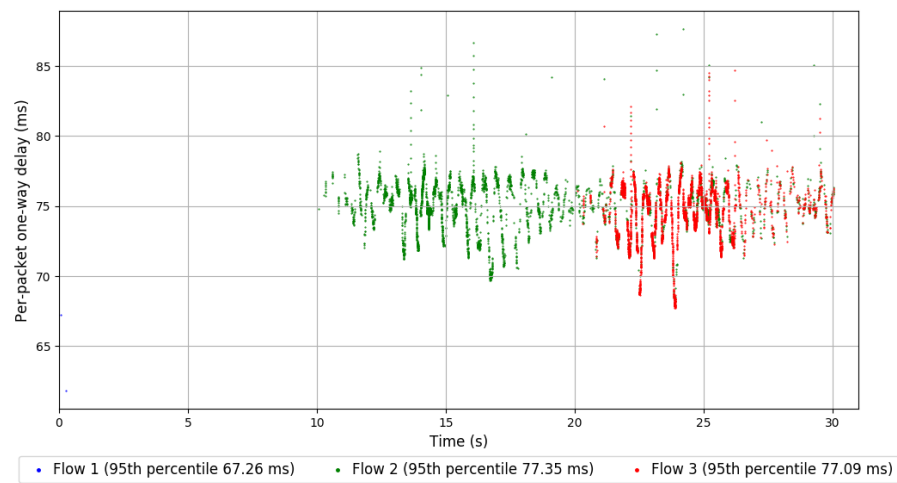
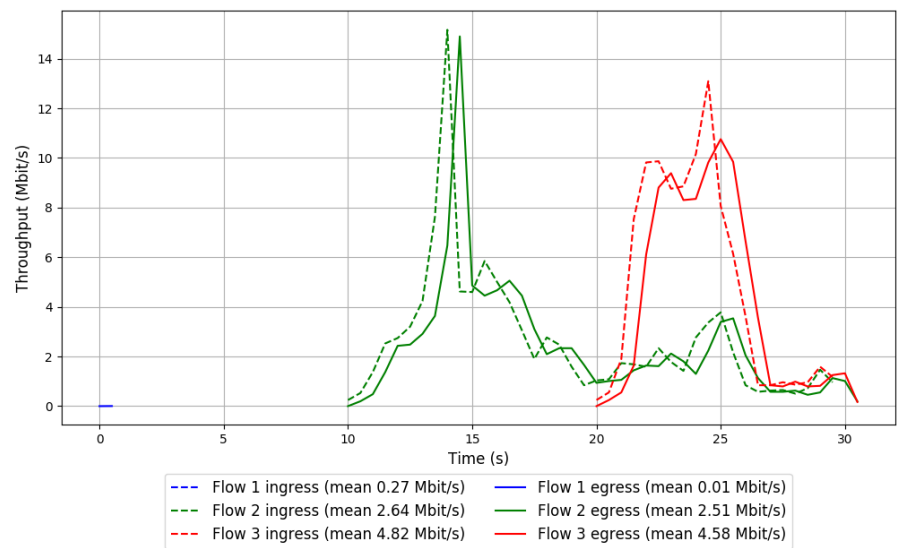


Run 3: Statistics of Copa

Start at: 2018-12-02 05:51:18
End at: 2018-12-02 05:51:48
Local clock offset: -4.268 ms
Remote clock offset: 40.272 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 77.255 ms
Loss rate: 5.11%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 67.261 ms
Loss rate: 96.71%
-- Flow 2:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 77.353 ms
Loss rate: 5.06%
-- Flow 3:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 77.089 ms
Loss rate: 5.05%

Run 3: Report of Copa — Data Link

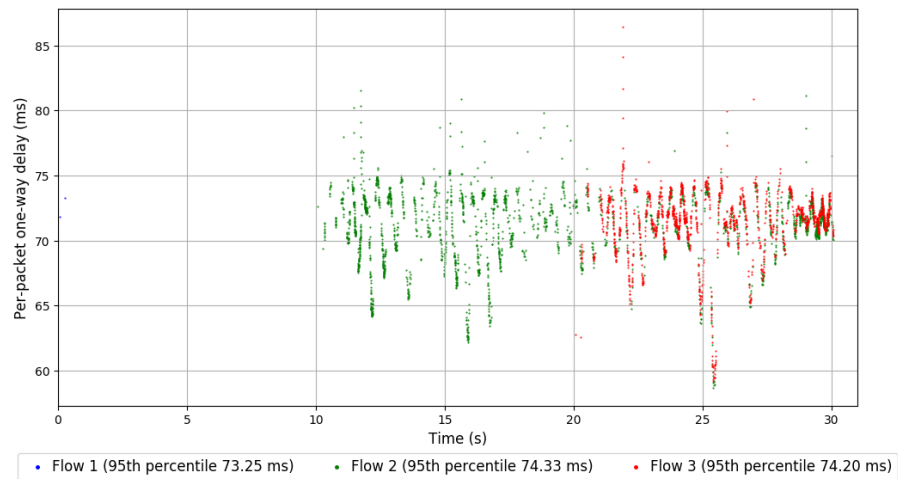
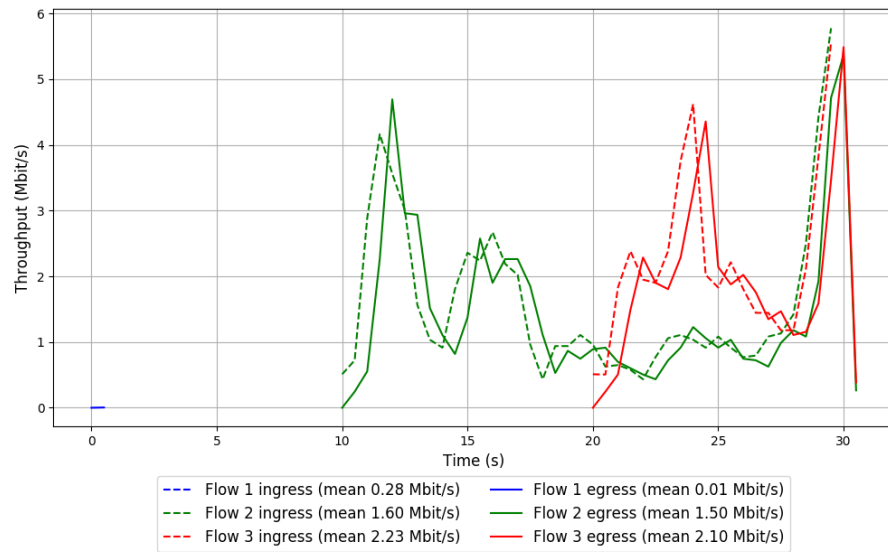


Run 4: Statistics of Copa

Start at: 2018-12-02 06:18:19
End at: 2018-12-02 06:18:49
Local clock offset: -15.937 ms
Remote clock offset: 39.731 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 74.250 ms
Loss rate: 6.07%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 73.251 ms
Loss rate: 96.71%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 74.328 ms
Loss rate: 6.20%
-- Flow 3:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 74.199 ms
Loss rate: 5.63%

Run 4: Report of Copa — Data Link

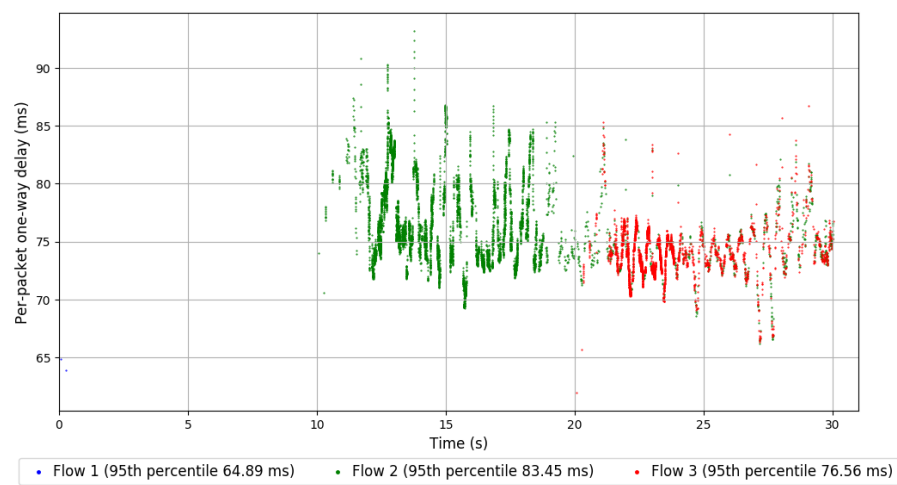
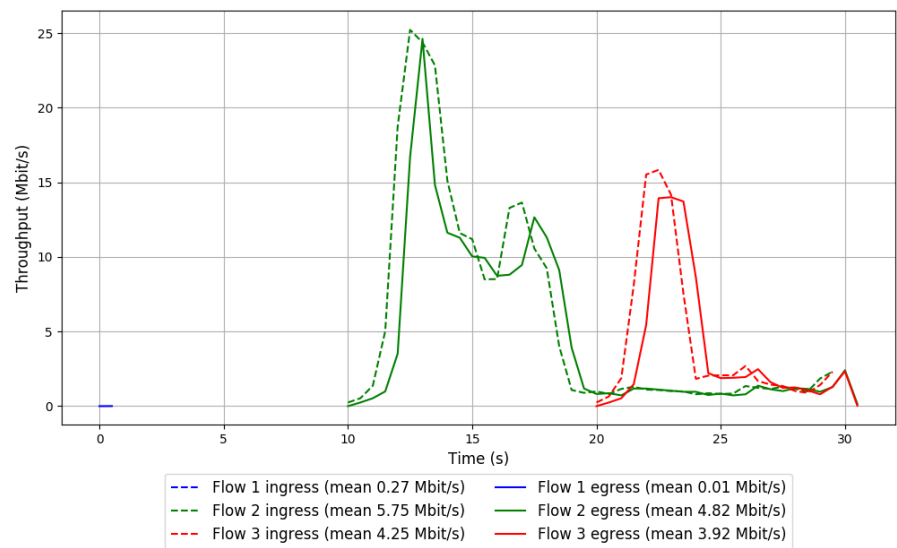


Run 5: Statistics of Copa

Start at: 2018-12-02 06:45:33
End at: 2018-12-02 06:46:03
Local clock offset: -20.641 ms
Remote clock offset: 12.661 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 82.871 ms
Loss rate: 13.98%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 64.888 ms
Loss rate: 96.71%
-- Flow 2:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 83.451 ms
Loss rate: 16.16%
-- Flow 3:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 76.555 ms
Loss rate: 7.98%

Run 5: Report of Copa — Data Link

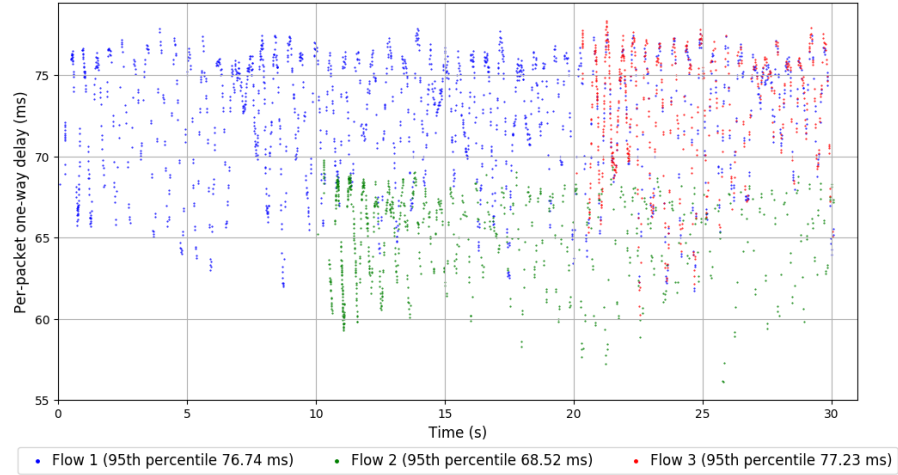
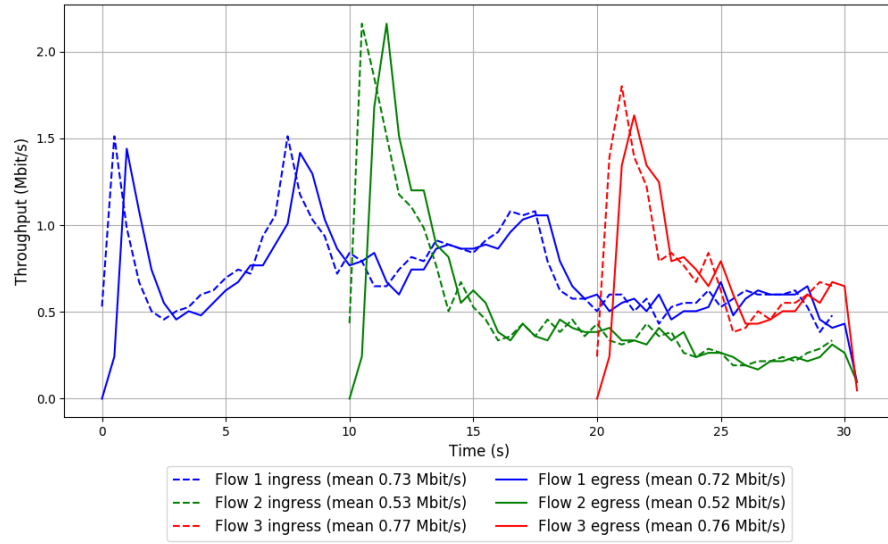


Run 1: Statistics of TCP Cubic

Start at: 2018-12-02 04:52:14
End at: 2018-12-02 04:52:44
Local clock offset: 2.641 ms
Remote clock offset: 44.446 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 76.776 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 76.744 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 68.522 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 77.227 ms
Loss rate: 2.03%

Run 1: Report of TCP Cubic — Data Link

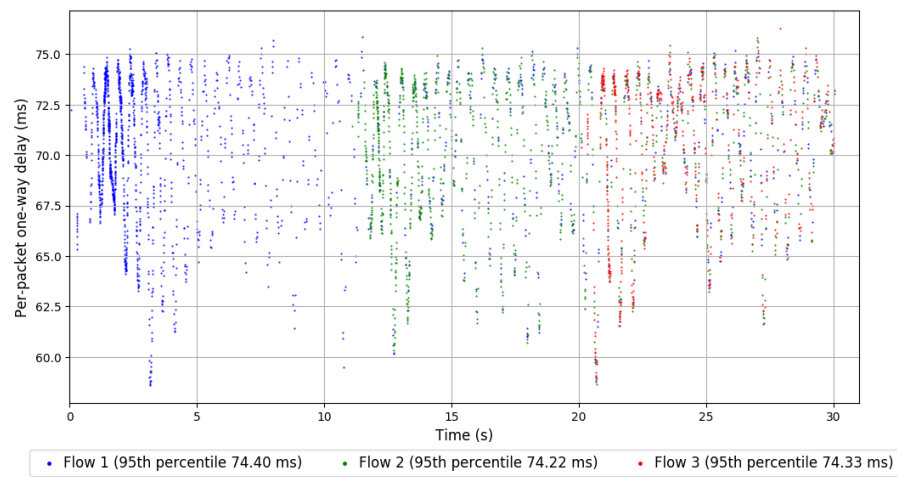
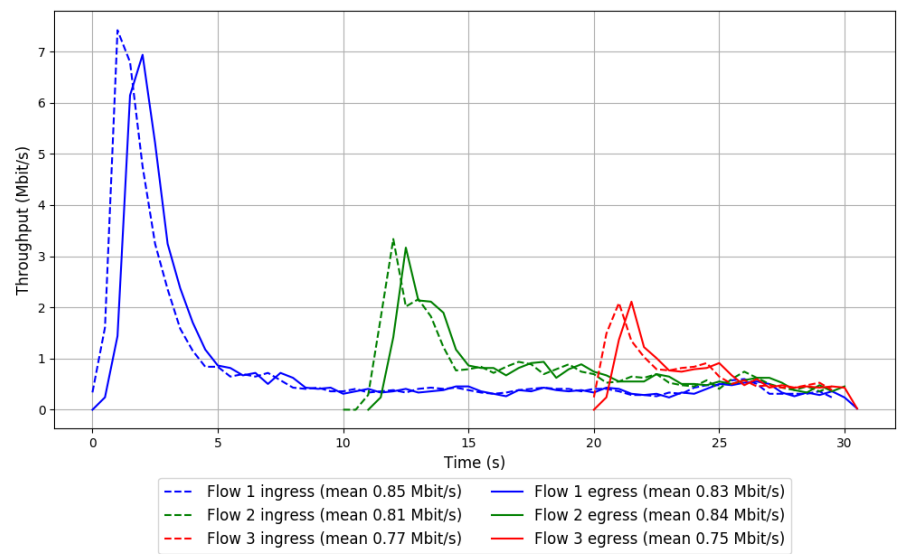


Run 2: Statistics of TCP Cubic

Start at: 2018-12-02 05:19:02
End at: 2018-12-02 05:19:32
Local clock offset: 3.003 ms
Remote clock offset: 16.323 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 74.342 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 74.403 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 74.223 ms
Loss rate: 2.16%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 74.325 ms
Loss rate: 2.36%

Run 2: Report of TCP Cubic — Data Link

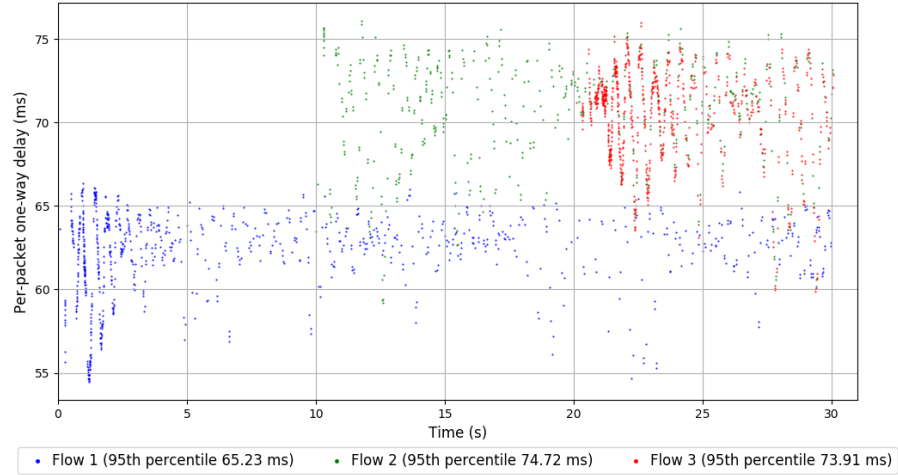
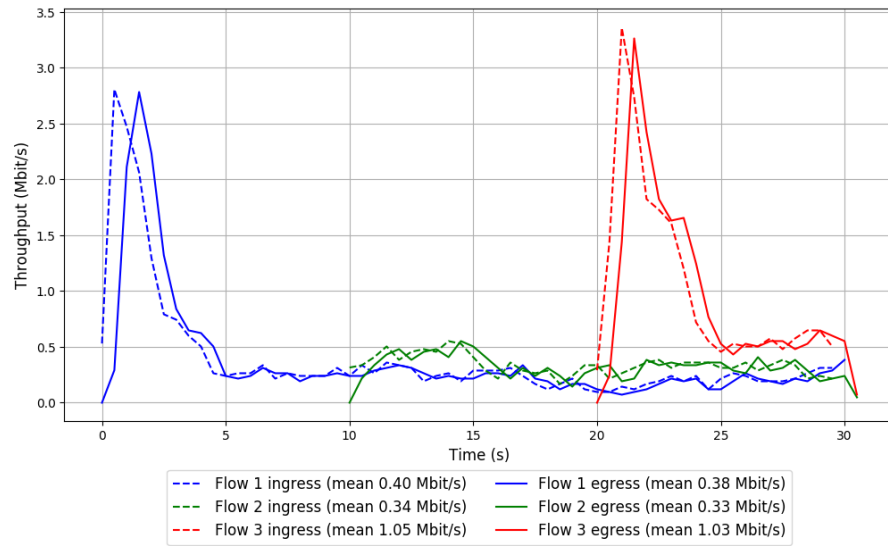


Run 3: Statistics of TCP Cubic

Start at: 2018-12-02 05:45:54
End at: 2018-12-02 05:46:24
Local clock offset: -0.01 ms
Remote clock offset: 34.238 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 73.914 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 65.226 ms
Loss rate: 4.47%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 74.718 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 73.914 ms
Loss rate: 1.95%

Run 3: Report of TCP Cubic — Data Link

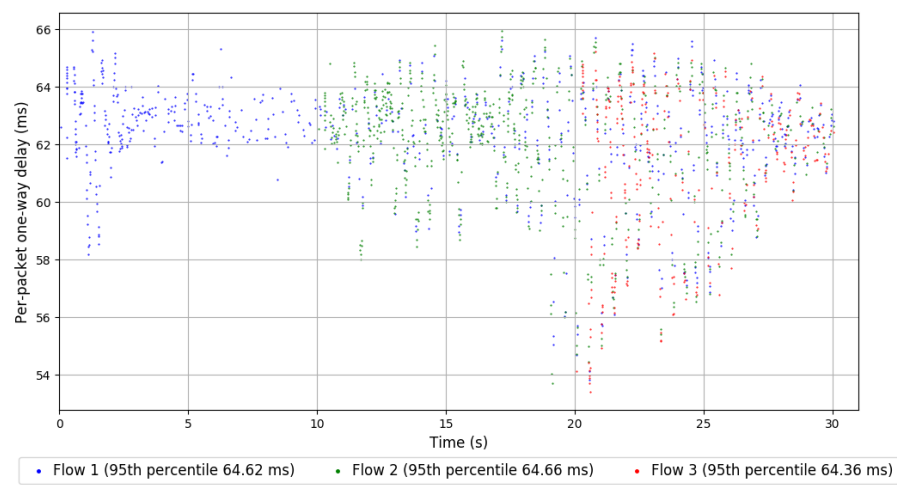
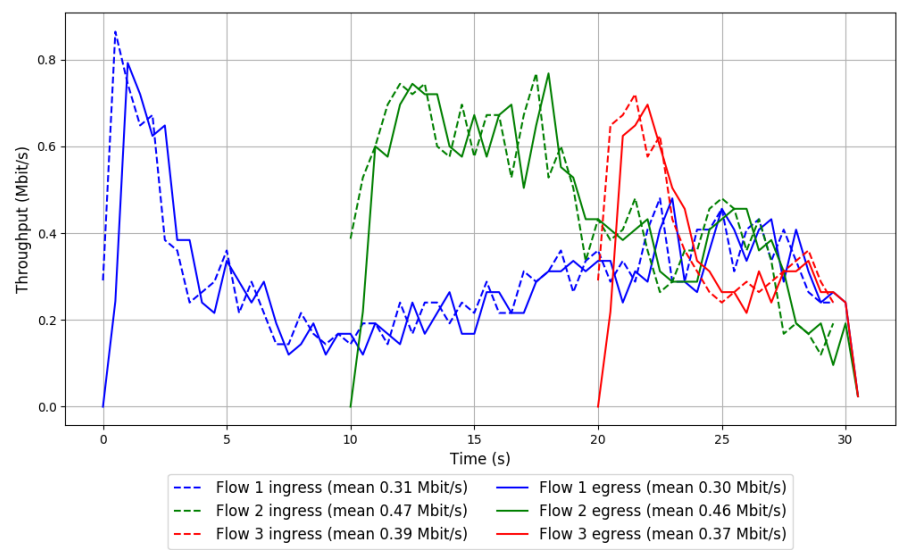


Run 4: Statistics of TCP Cubic

Start at: 2018-12-02 06:12:50
End at: 2018-12-02 06:13:20
Local clock offset: -14.751 ms
Remote clock offset: 38.777 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 64.581 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 64.621 ms
Loss rate: 3.23%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 64.658 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 64.361 ms
Loss rate: 4.32%

Run 4: Report of TCP Cubic — Data Link

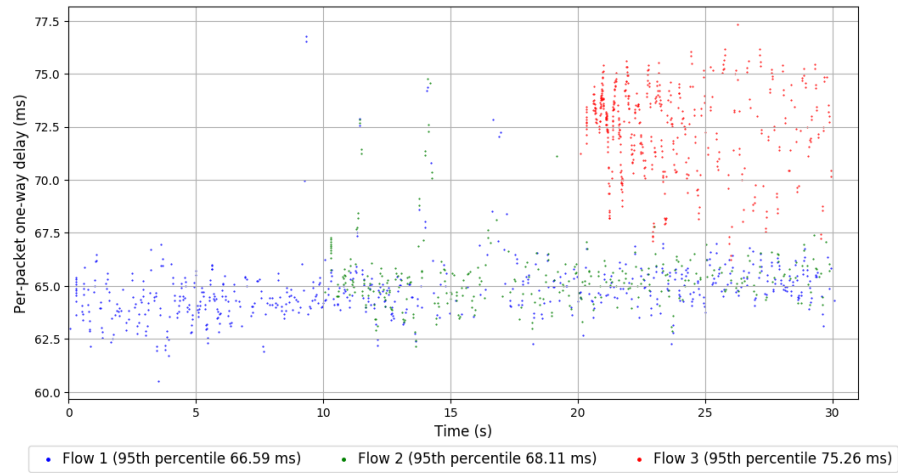
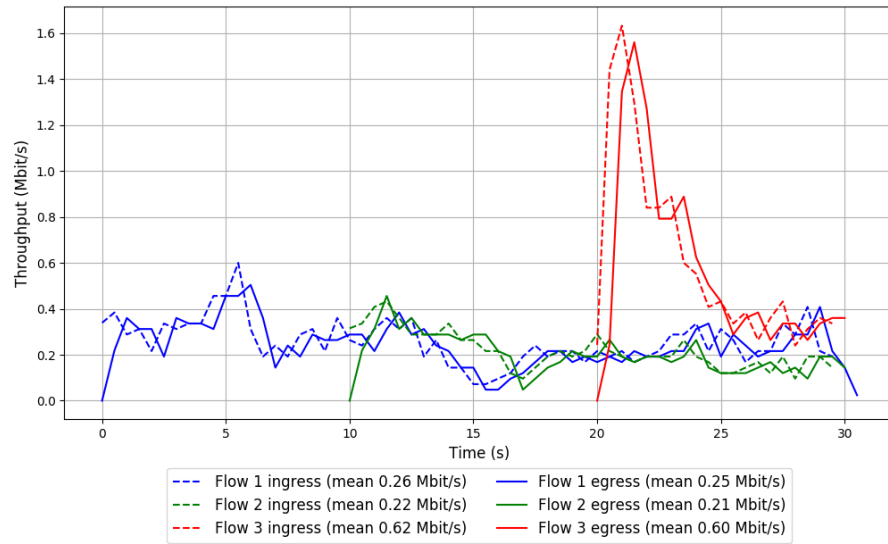


Run 5: Statistics of TCP Cubic

Start at: 2018-12-02 06:39:58
End at: 2018-12-02 06:40:28
Local clock offset: -19.59 ms
Remote clock offset: 25.757 ms

Below is generated by plot.py at 2018-12-02 06:59:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 74.556 ms
Loss rate: 4.66%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 66.591 ms
Loss rate: 4.31%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 68.115 ms
Loss rate: 6.59%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 75.257 ms
Loss rate: 3.74%

Run 5: Report of TCP Cubic — Data Link

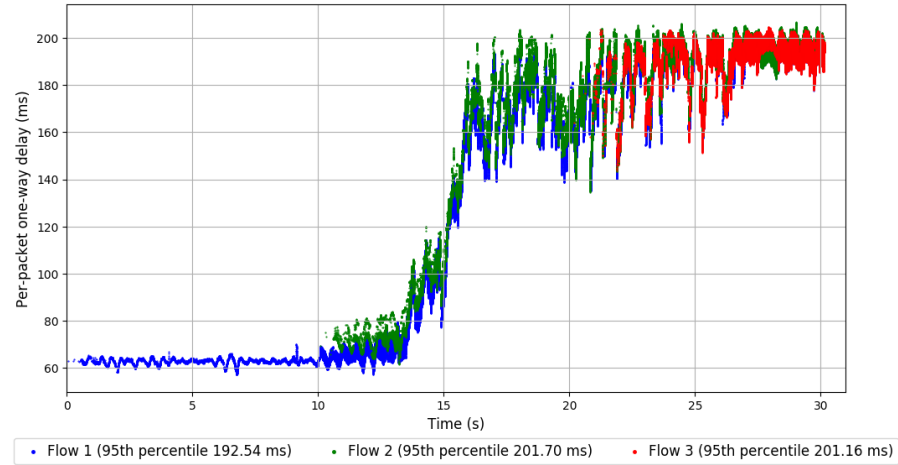
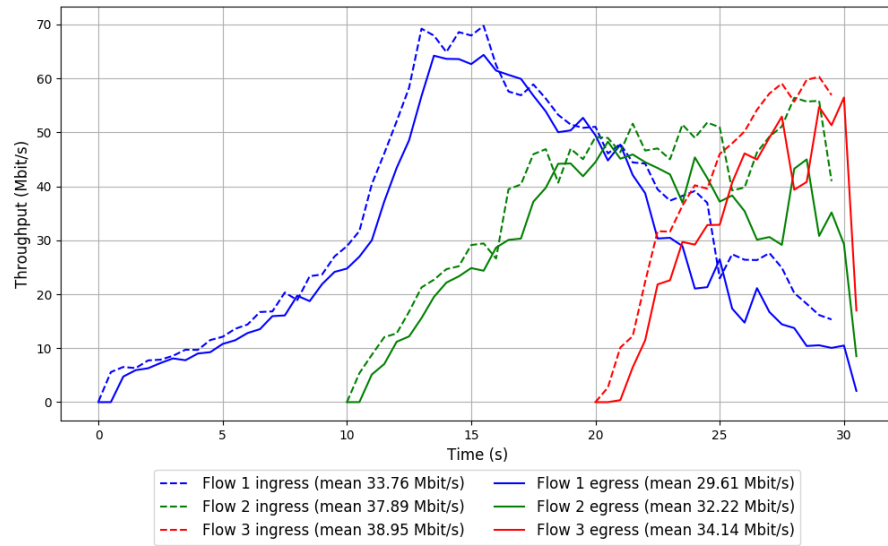


Run 1: Statistics of FillP

Start at: 2018-12-02 05:01:47
End at: 2018-12-02 05:02:17
Local clock offset: 2.773 ms
Remote clock offset: 25.519 ms

Below is generated by plot.py at 2018-12-02 06:59:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.33 Mbit/s
95th percentile per-packet one-way delay: 200.358 ms
Loss rate: 12.99%
-- Flow 1:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 192.541 ms
Loss rate: 12.15%
-- Flow 2:
Average throughput: 32.22 Mbit/s
95th percentile per-packet one-way delay: 201.700 ms
Loss rate: 14.58%
-- Flow 3:
Average throughput: 34.14 Mbit/s
95th percentile per-packet one-way delay: 201.162 ms
Loss rate: 12.07%

Run 1: Report of FillP — Data Link

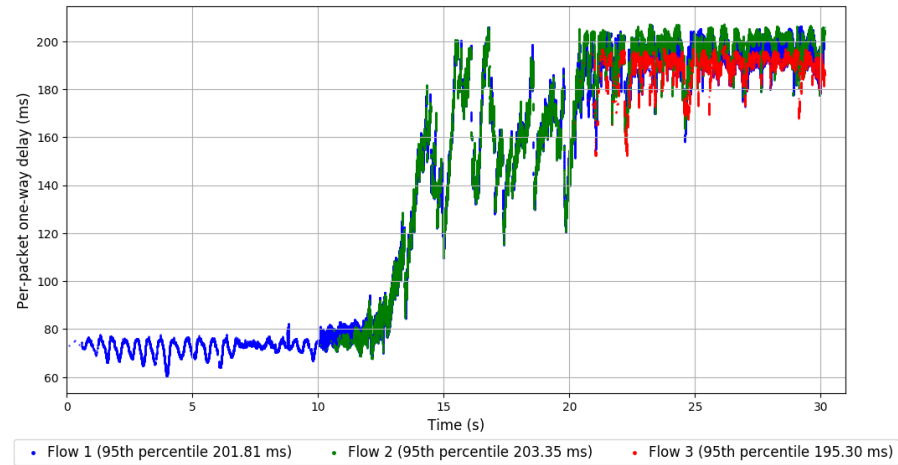
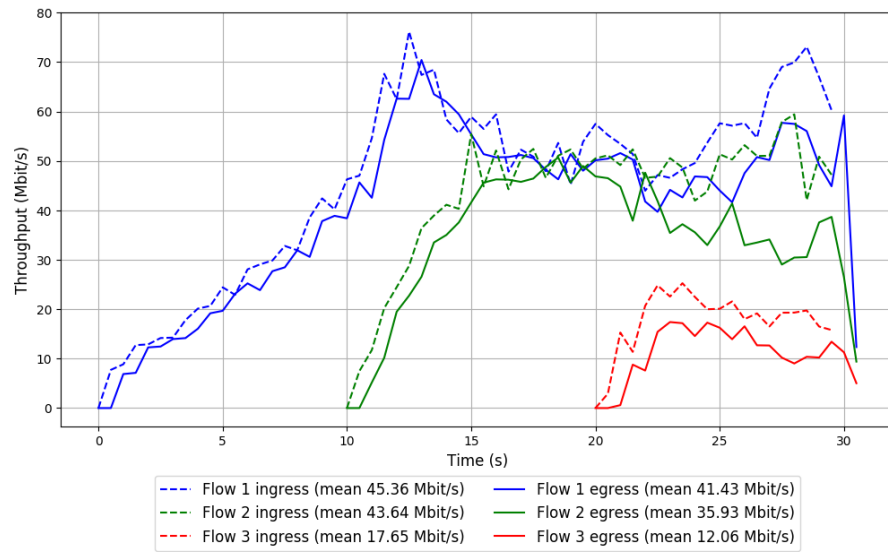


Run 2: Statistics of FillP

Start at: 2018-12-02 05:28:34
End at: 2018-12-02 05:29:04
Local clock offset: 0.885 ms
Remote clock offset: 18.808 ms

Below is generated by plot.py at 2018-12-02 06:59:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.35 Mbit/s
95th percentile per-packet one-way delay: 202.407 ms
Loss rate: 13.26%
-- Flow 1:
Average throughput: 41.43 Mbit/s
95th percentile per-packet one-way delay: 201.809 ms
Loss rate: 8.38%
-- Flow 2:
Average throughput: 35.93 Mbit/s
95th percentile per-packet one-way delay: 203.351 ms
Loss rate: 17.18%
-- Flow 3:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 195.300 ms
Loss rate: 31.55%

Run 2: Report of FillP — Data Link

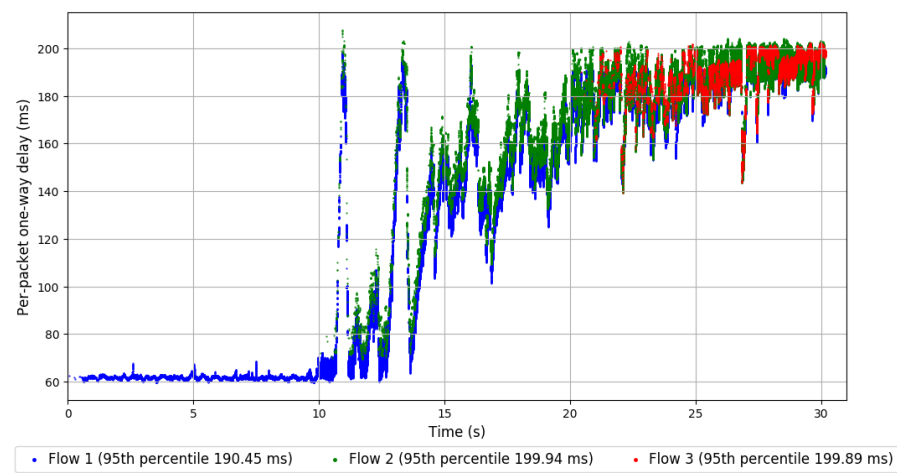
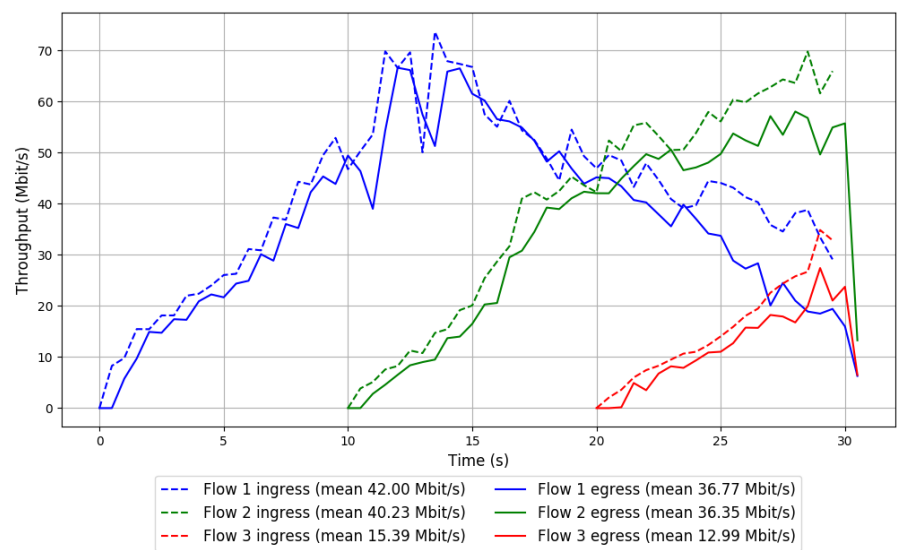


Run 3: Statistics of FillP

Start at: 2018-12-02 05:55:18
End at: 2018-12-02 05:55:48
Local clock offset: -7.499 ms
Remote clock offset: 37.105 ms

Below is generated by plot.py at 2018-12-02 06:59:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.26 Mbit/s
95th percentile per-packet one-way delay: 198.358 ms
Loss rate: 11.32%
-- Flow 1:
Average throughput: 36.77 Mbit/s
95th percentile per-packet one-way delay: 190.446 ms
Loss rate: 12.08%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 199.943 ms
Loss rate: 9.35%
-- Flow 3:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 199.886 ms
Loss rate: 15.45%

Run 3: Report of FillP — Data Link

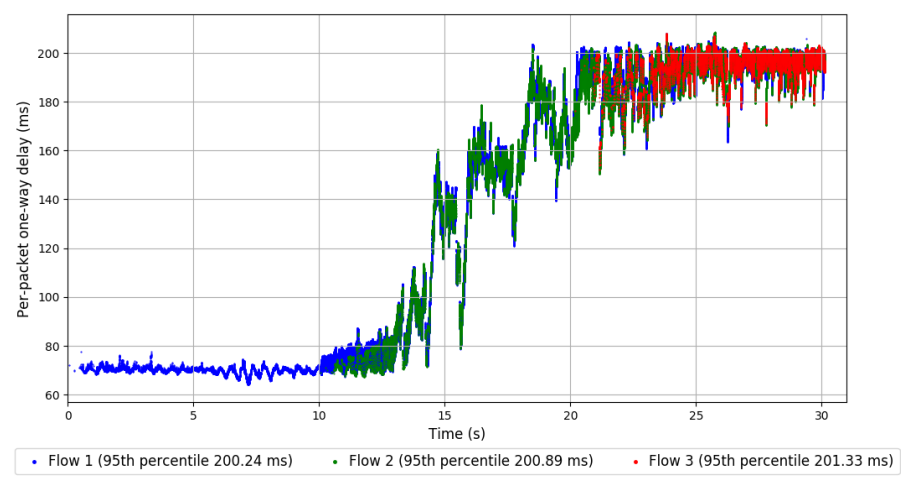
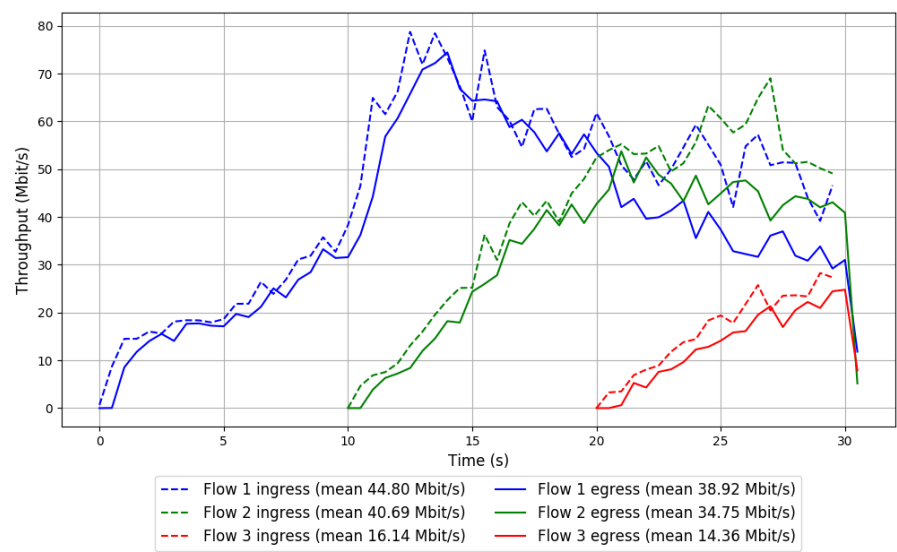


Run 4: Statistics of FillP

Start at: 2018-12-02 06:22:28
End at: 2018-12-02 06:22:58
Local clock offset: -16.434 ms
Remote clock offset: 39.084 ms

Below is generated by plot.py at 2018-12-02 07:00:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.83 Mbit/s
95th percentile per-packet one-way delay: 200.644 ms
Loss rate: 13.24%
-- Flow 1:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 200.240 ms
Loss rate: 12.89%
-- Flow 2:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 200.893 ms
Loss rate: 14.26%
-- Flow 3:
Average throughput: 14.36 Mbit/s
95th percentile per-packet one-way delay: 201.332 ms
Loss rate: 10.95%

Run 4: Report of FillP — Data Link

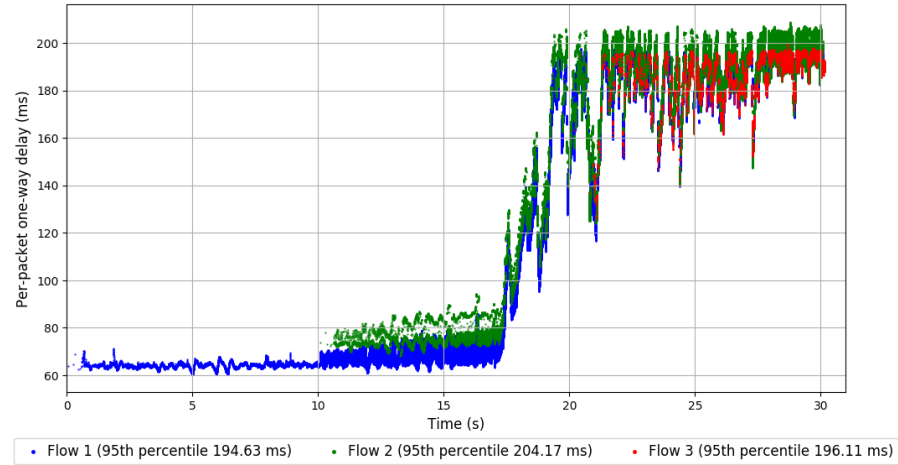
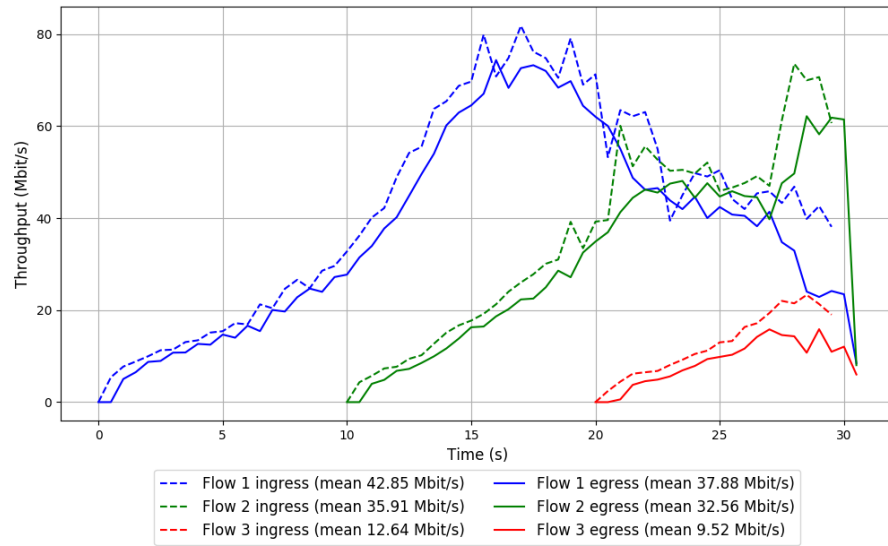


Run 5: Statistics of FillP

Start at: 2018-12-02 06:49:38
End at: 2018-12-02 06:50:08
Local clock offset: -17.548 ms
Remote clock offset: 4.004 ms

Below is generated by plot.py at 2018-12-02 07:00:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.61 Mbit/s
95th percentile per-packet one-way delay: 201.558 ms
Loss rate: 11.36%
-- Flow 1:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 194.635 ms
Loss rate: 11.32%
-- Flow 2:
Average throughput: 32.56 Mbit/s
95th percentile per-packet one-way delay: 204.167 ms
Loss rate: 9.10%
-- Flow 3:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 196.112 ms
Loss rate: 24.53%

Run 5: Report of FillP — Data Link

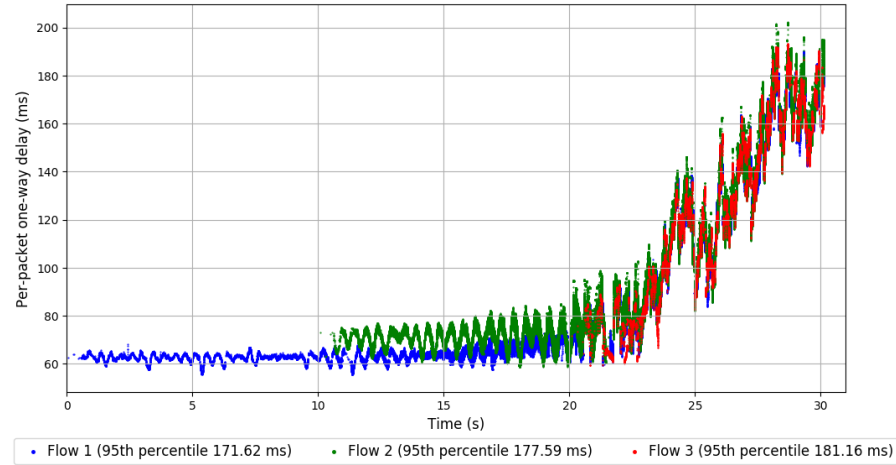
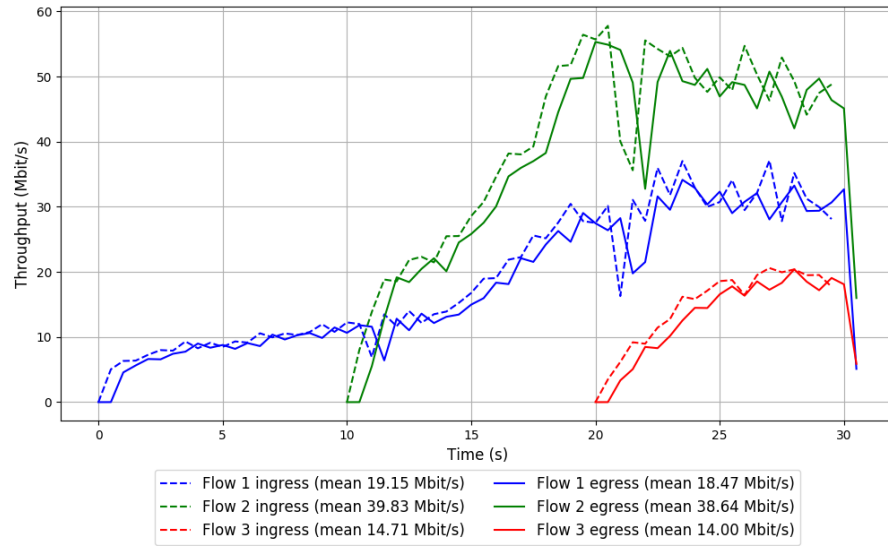


Run 1: Statistics of FillP-Sheep

Start at: 2018-12-02 04:43:38
End at: 2018-12-02 04:44:08
Local clock offset: 2.626 ms
Remote clock offset: 40.211 ms

Below is generated by plot.py at 2018-12-02 07:00:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.88 Mbit/s
95th percentile per-packet one-way delay: 176.288 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 18.47 Mbit/s
95th percentile per-packet one-way delay: 171.625 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 177.593 ms
Loss rate: 2.40%
-- Flow 3:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 181.165 ms
Loss rate: 3.91%

Run 1: Report of FillP-Sheep — Data Link

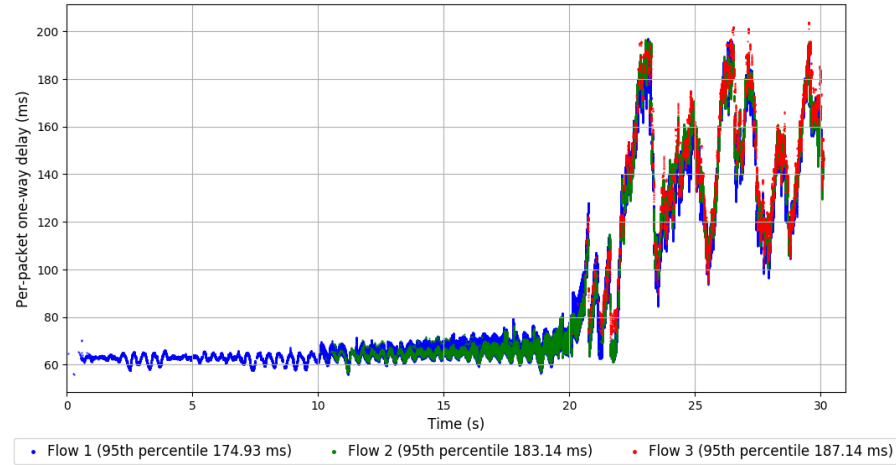
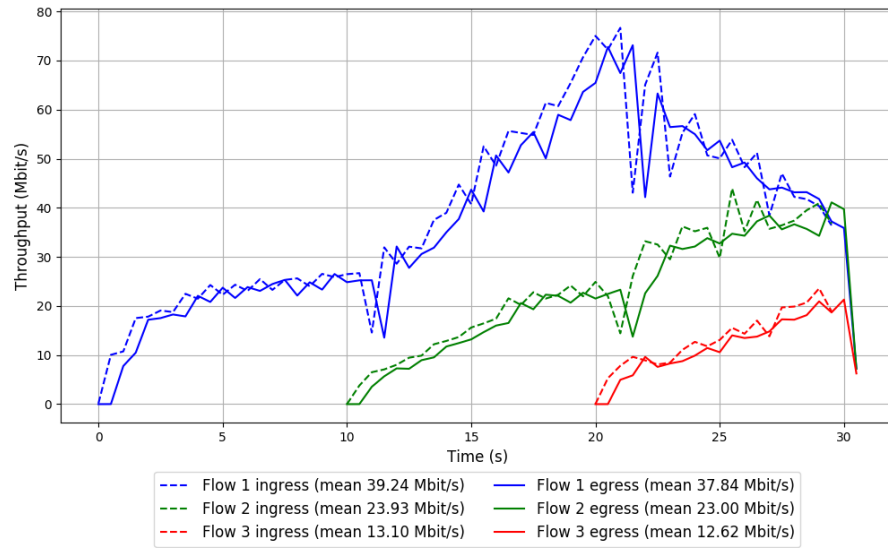


Run 2: Statistics of FillP-Sheep

Start at: 2018-12-02 05:10:37
End at: 2018-12-02 05:11:07
Local clock offset: 3.242 ms
Remote clock offset: 20.429 ms

Below is generated by plot.py at 2018-12-02 07:00:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 179.446 ms
Loss rate: 3.39%
-- Flow 1:
Average throughput: 37.84 Mbit/s
95th percentile per-packet one-way delay: 174.930 ms
Loss rate: 3.41%
-- Flow 2:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 183.139 ms
Loss rate: 3.47%
-- Flow 3:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 187.136 ms
Loss rate: 2.89%

Run 2: Report of FillP-Sheep — Data Link

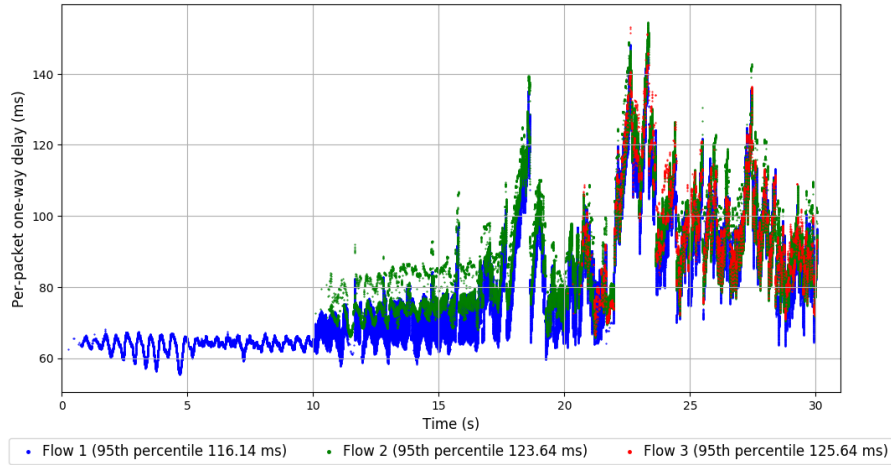
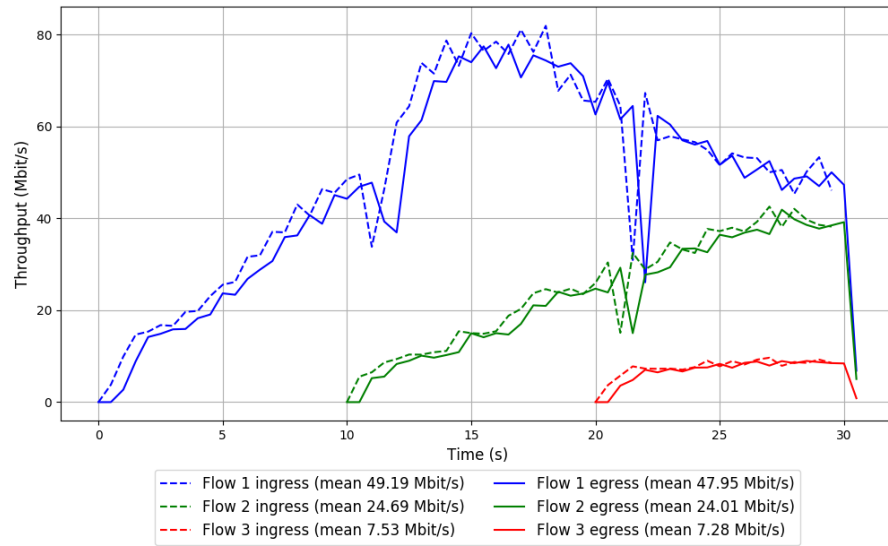


Run 3: Statistics of FillP-Sheep

Start at: 2018-12-02 05:37:34
End at: 2018-12-02 05:38:04
Local clock offset: 0.256 ms
Remote clock offset: 31.361 ms

```
# Below is generated by plot.py at 2018-12-02 07:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.47 Mbit/s
95th percentile per-packet one-way delay: 119.611 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 47.95 Mbit/s
95th percentile per-packet one-way delay: 116.138 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 123.643 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 125.642 ms
Loss rate: 3.14%
```

Run 3: Report of FillP-Sheep — Data Link

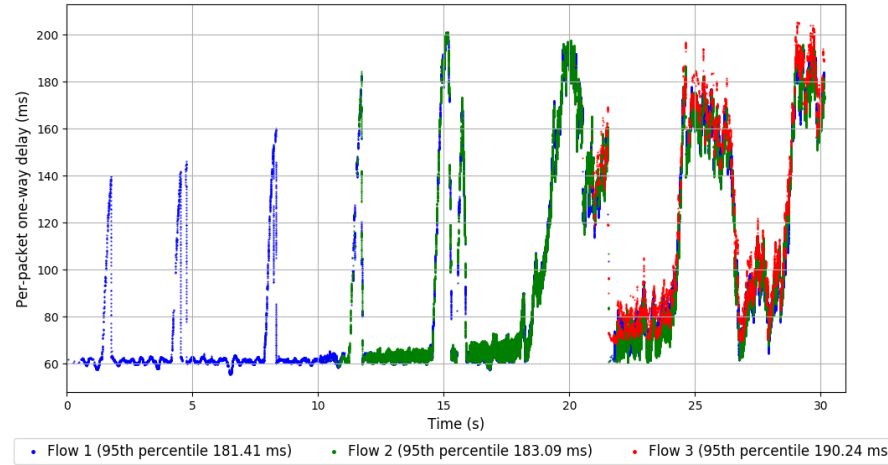
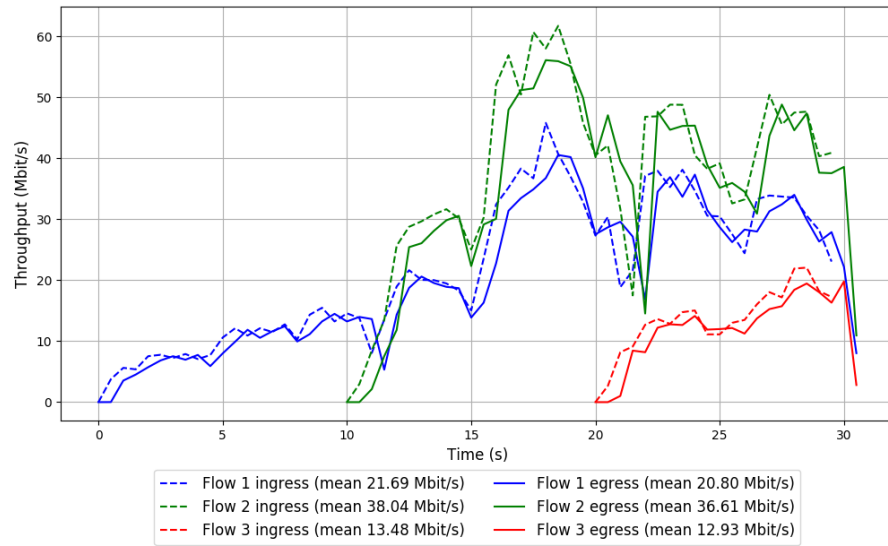


Run 4: Statistics of FillP-Sheep

Start at: 2018-12-02 06:04:16
End at: 2018-12-02 06:04:46
Local clock offset: -12.107 ms
Remote clock offset: 37.941 ms

Below is generated by plot.py at 2018-12-02 07:00:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 183.541 ms
Loss rate: 4.04%
-- Flow 1:
Average throughput: 20.80 Mbit/s
95th percentile per-packet one-way delay: 181.414 ms
Loss rate: 3.74%
-- Flow 2:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 183.086 ms
Loss rate: 4.21%
-- Flow 3:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 190.242 ms
Loss rate: 4.51%

Run 4: Report of FillP-Sheep — Data Link

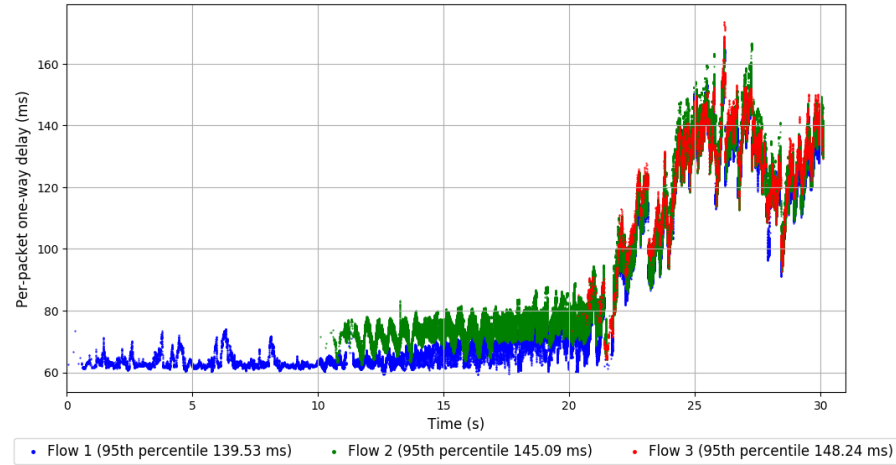
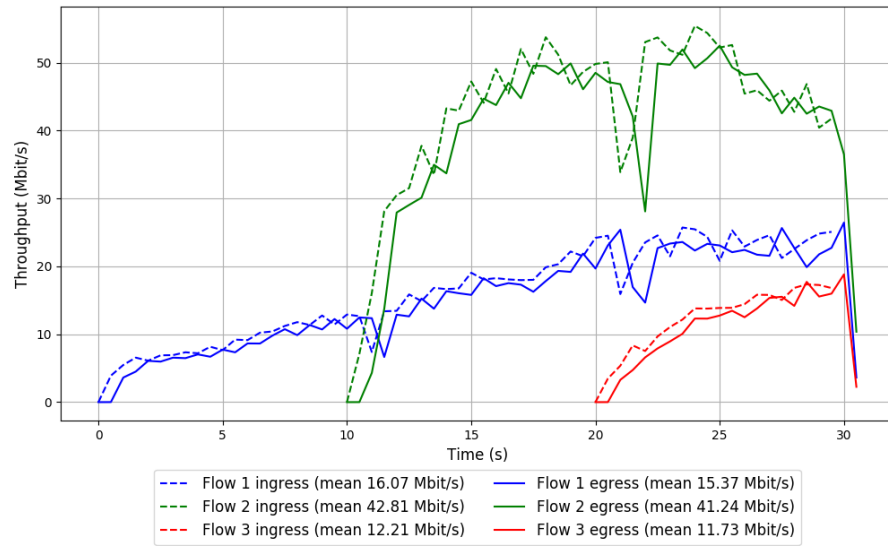


Run 5: Statistics of FillP-Sheep

Start at: 2018-12-02 06:31:13
End at: 2018-12-02 06:31:43
Local clock offset: -18.086 ms
Remote clock offset: 41.106 ms

Below is generated by plot.py at 2018-12-02 07:00:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.74 Mbit/s
95th percentile per-packet one-way delay: 144.411 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 139.525 ms
Loss rate: 4.23%
-- Flow 2:
Average throughput: 41.24 Mbit/s
95th percentile per-packet one-way delay: 145.086 ms
Loss rate: 3.30%
-- Flow 3:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 148.244 ms
Loss rate: 3.41%

Run 5: Report of FillP-Sheep — Data Link

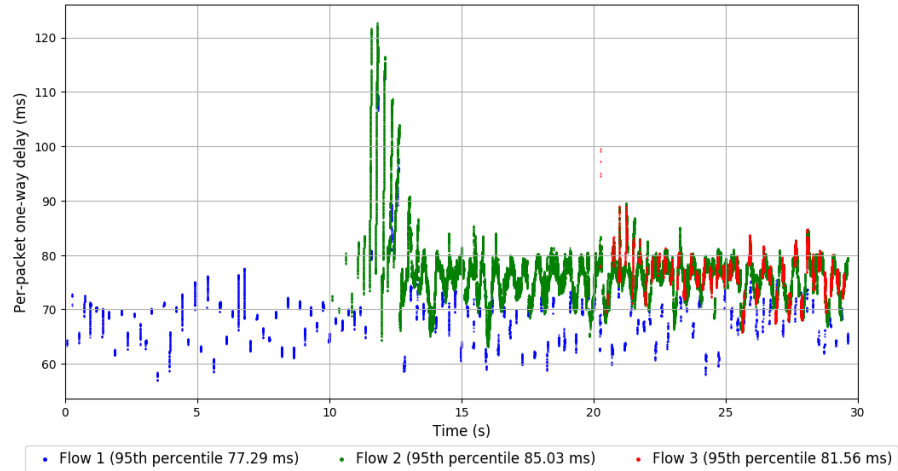
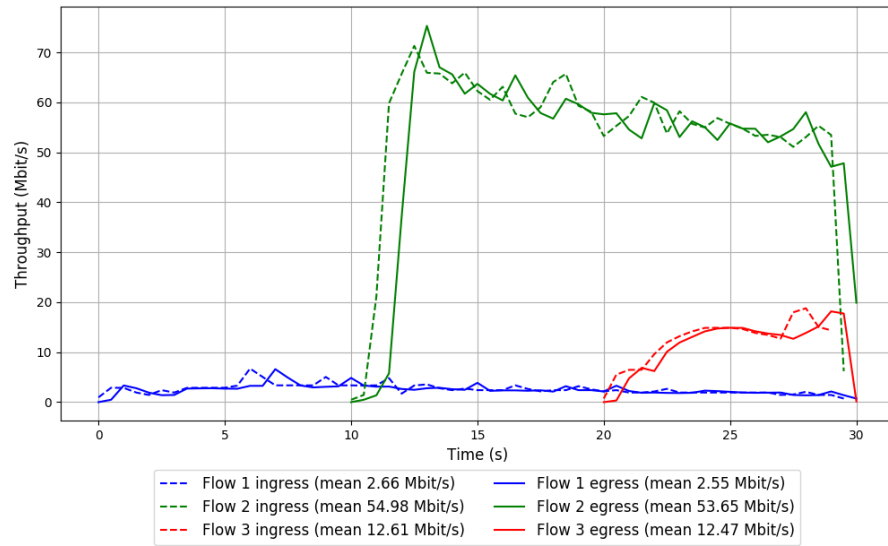


```
Run 1: Statistics of Indigo

Start at: 2018-12-02 04:50:47
End at: 2018-12-02 04:51:17
Local clock offset: 2.924 ms
Remote clock offset: 46.141 ms

# Below is generated by plot.py at 2018-12-02 07:00:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.84 Mbit/s
95th percentile per-packet one-way delay: 84.028 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 77.294 ms
Loss rate: 3.95%
-- Flow 2:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 85.030 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 81.556 ms
Loss rate: 1.12%
```

Run 1: Report of Indigo — Data Link

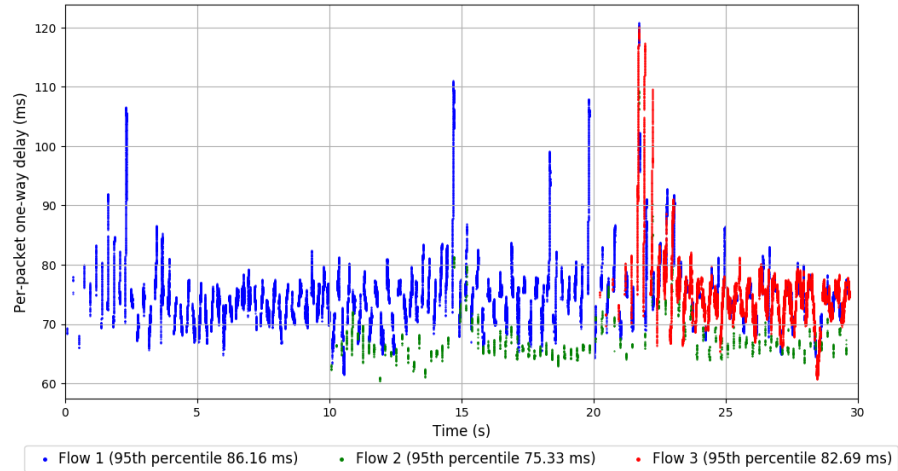
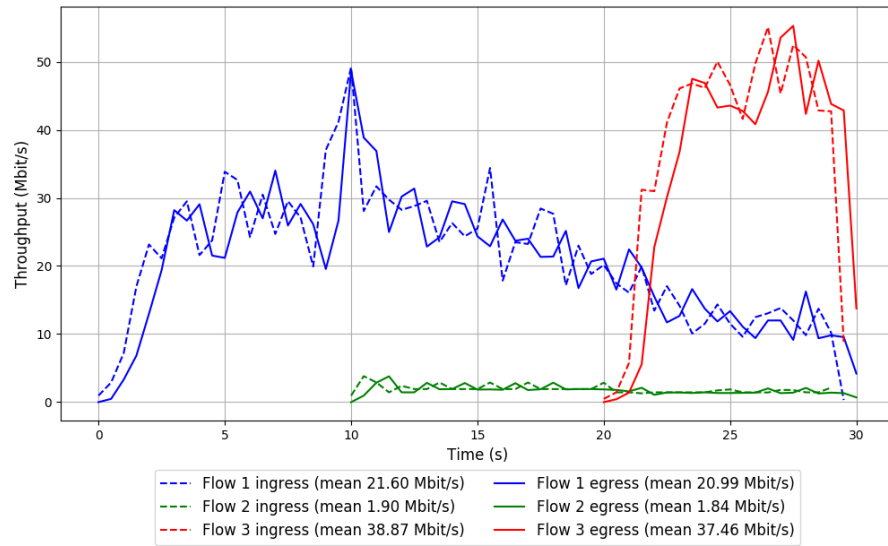


Run 2: Statistics of Indigo

Start at: 2018-12-02 05:17:35
End at: 2018-12-02 05:18:05
Local clock offset: 3.364 ms
Remote clock offset: 18.159 ms

```
# Below is generated by plot.py at 2018-12-02 07:00:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.09 Mbit/s
95th percentile per-packet one-way delay: 84.912 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 86.161 ms
Loss rate: 2.83%
-- Flow 2:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 75.329 ms
Loss rate: 3.25%
-- Flow 3:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 82.688 ms
Loss rate: 3.62%
```

Run 2: Report of Indigo — Data Link

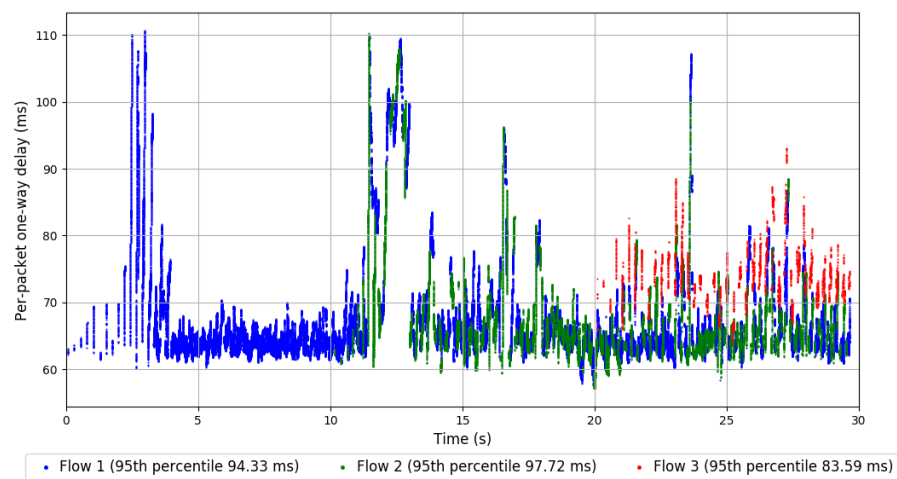
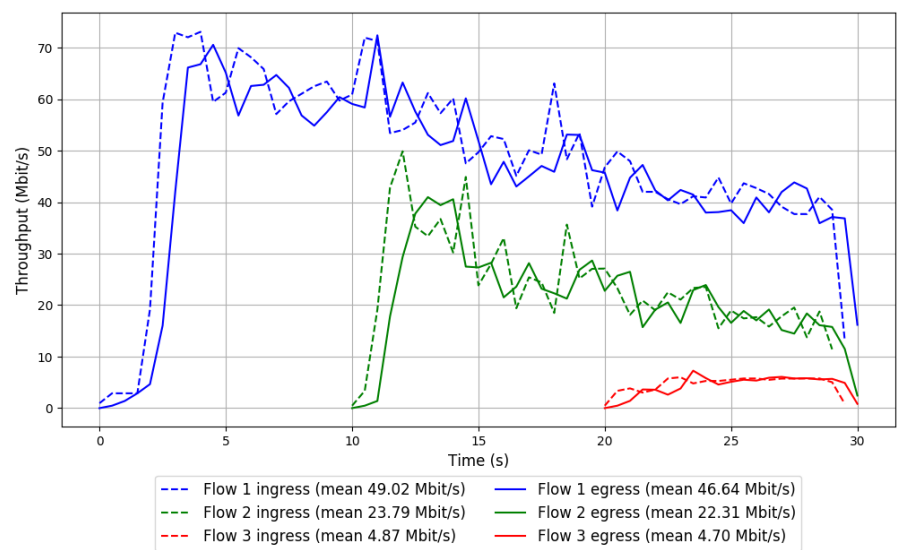


Run 3: Statistics of Indigo

Start at: 2018-12-02 05:44:25
End at: 2018-12-02 05:44:55
Local clock offset: 0.085 ms
Remote clock offset: 32.841 ms

Below is generated by plot.py at 2018-12-02 07:01:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 95.215 ms
Loss rate: 5.10%
-- Flow 1:
Average throughput: 46.64 Mbit/s
95th percentile per-packet one-way delay: 94.334 ms
Loss rate: 4.82%
-- Flow 2:
Average throughput: 22.31 Mbit/s
95th percentile per-packet one-way delay: 97.722 ms
Loss rate: 6.18%
-- Flow 3:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 83.593 ms
Loss rate: 3.34%

Run 3: Report of Indigo — Data Link

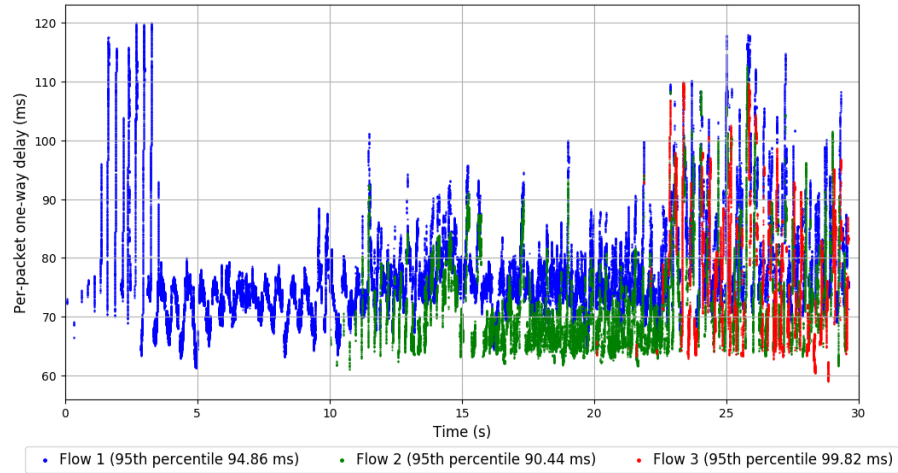
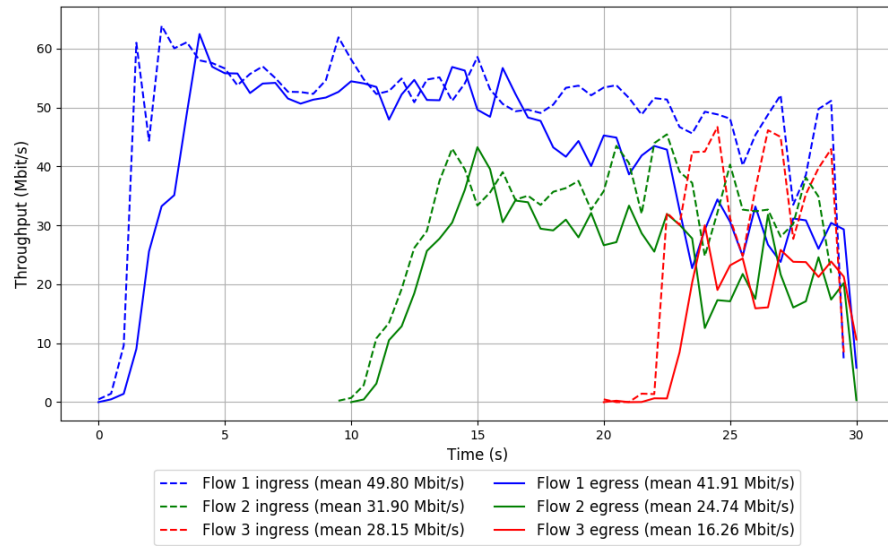


Run 4: Statistics of Indigo

Start at: 2018-12-02 06:11:11
End at: 2018-12-02 06:11:41
Local clock offset: -14.378 ms
Remote clock offset: 40.025 ms

Below is generated by plot.py at 2018-12-02 07:01:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.44 Mbit/s
95th percentile per-packet one-way delay: 94.820 ms
Loss rate: 20.56%
-- Flow 1:
Average throughput: 41.91 Mbit/s
95th percentile per-packet one-way delay: 94.861 ms
Loss rate: 15.86%
-- Flow 2:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 90.441 ms
Loss rate: 22.43%
-- Flow 3:
Average throughput: 16.26 Mbit/s
95th percentile per-packet one-way delay: 99.823 ms
Loss rate: 42.12%

Run 4: Report of Indigo — Data Link

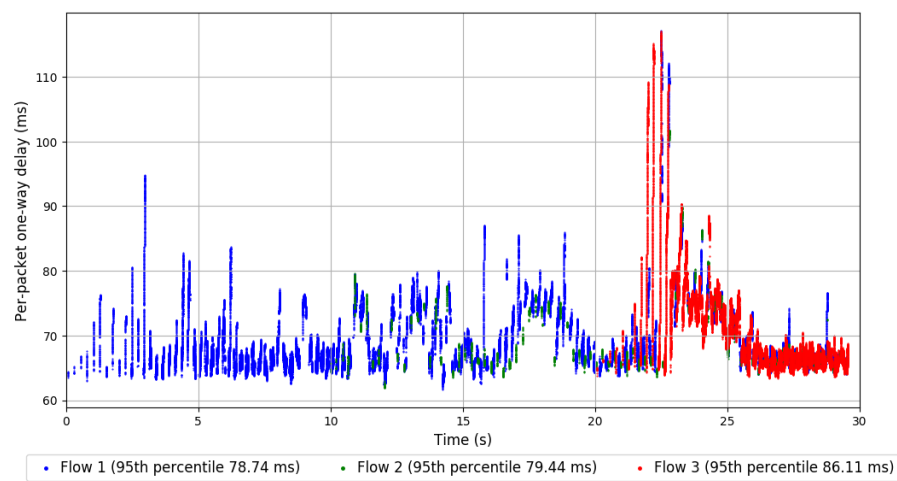
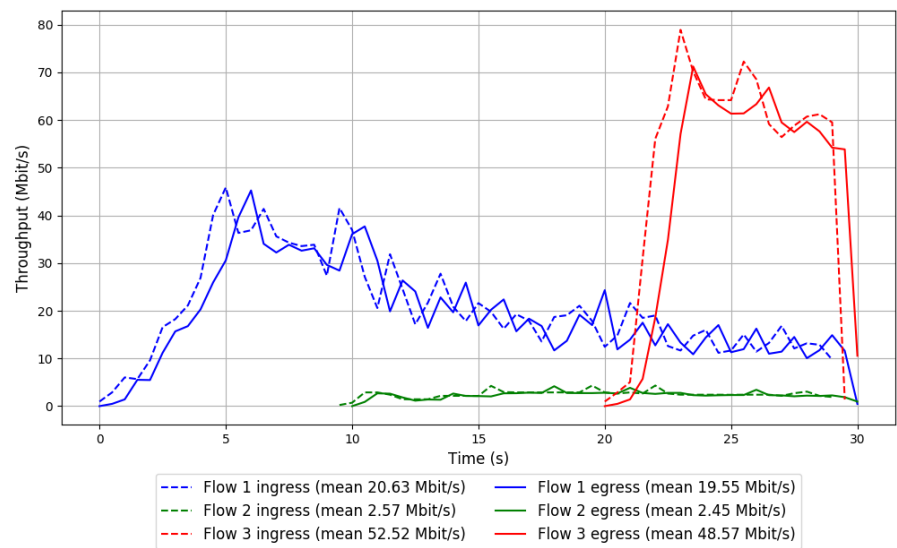


Run 5: Statistics of Indigo

Start at: 2018-12-02 06:38:30
End at: 2018-12-02 06:39:00
Local clock offset: -19.485 ms
Remote clock offset: 30.417 ms

Below is generated by plot.py at 2018-12-02 07:01:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.77 Mbit/s
95th percentile per-packet one-way delay: 81.822 ms
Loss rate: 6.18%
-- Flow 1:
Average throughput: 19.55 Mbit/s
95th percentile per-packet one-way delay: 78.739 ms
Loss rate: 5.20%
-- Flow 2:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 79.439 ms
Loss rate: 4.65%
-- Flow 3:
Average throughput: 48.57 Mbit/s
95th percentile per-packet one-way delay: 86.113 ms
Loss rate: 7.52%

Run 5: Report of Indigo — Data Link

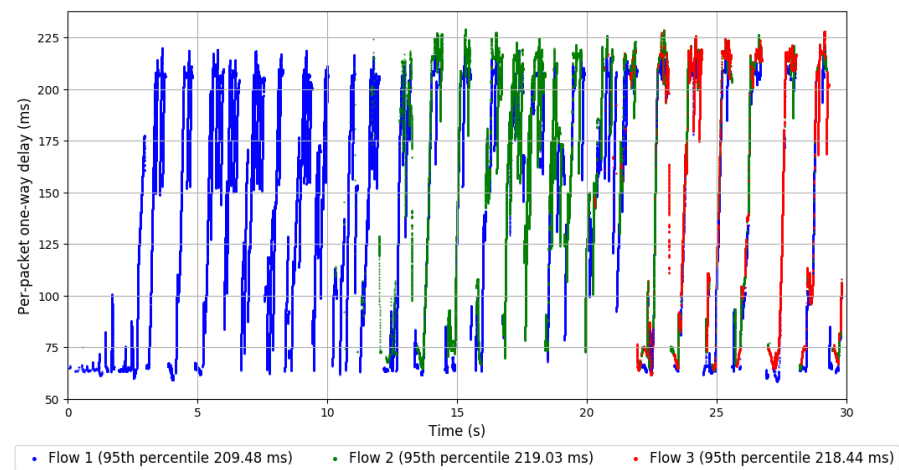
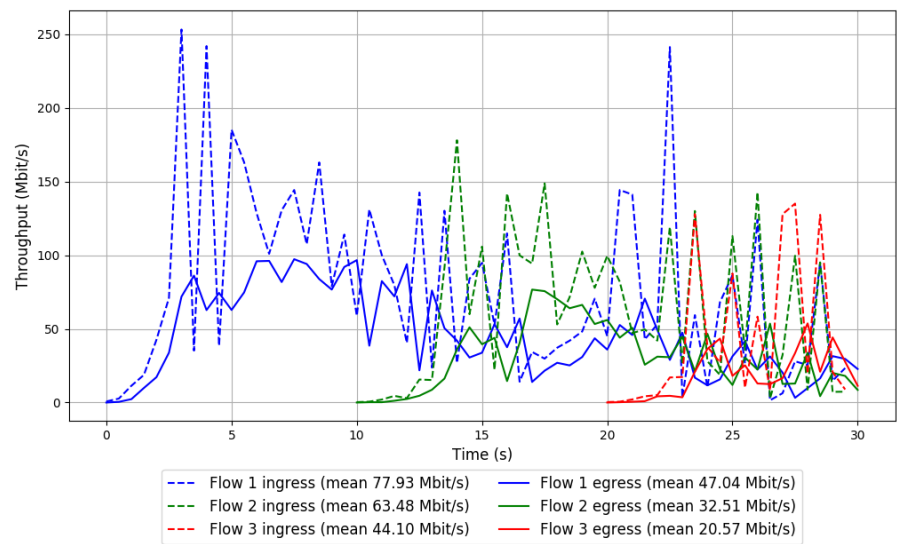


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:06:09
End at: 2018-12-02 05:06:39
Local clock offset: 2.848 ms
Remote clock offset: 22.416 ms

Below is generated by plot.py at 2018-12-02 07:01:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 216.718 ms
Loss rate: 43.92%
-- Flow 1:
Average throughput: 47.04 Mbit/s
95th percentile per-packet one-way delay: 209.479 ms
Loss rate: 39.55%
-- Flow 2:
Average throughput: 32.51 Mbit/s
95th percentile per-packet one-way delay: 219.035 ms
Loss rate: 48.80%
-- Flow 3:
Average throughput: 20.57 Mbit/s
95th percentile per-packet one-way delay: 218.442 ms
Loss rate: 53.58%

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

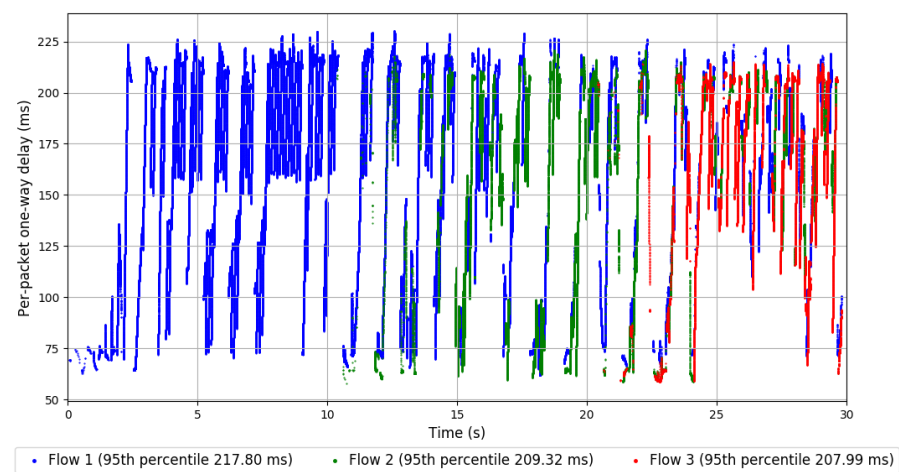
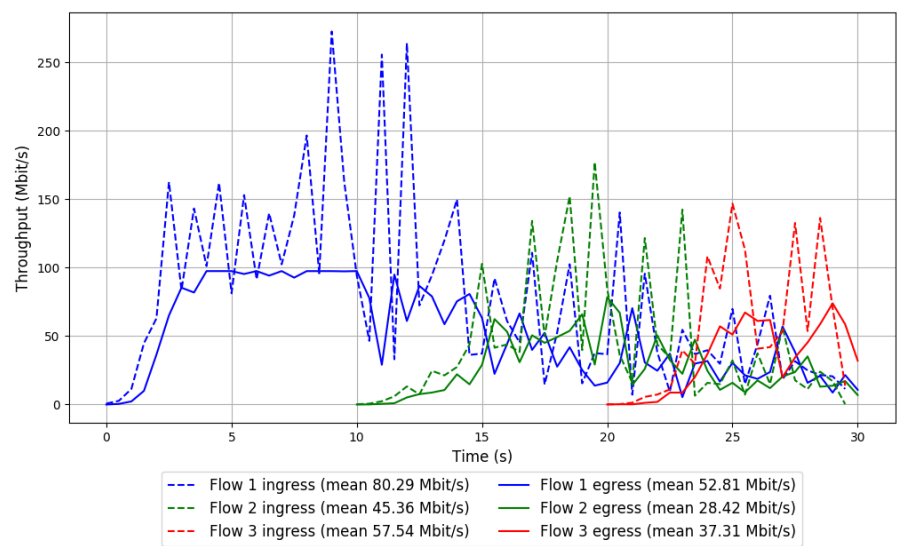


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:32:56
End at: 2018-12-02 05:33:26
Local clock offset: 0.525 ms
Remote clock offset: 24.525 ms

Below is generated by plot.py at 2018-12-02 07:01:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 216.692 ms
Loss rate: 35.26%
-- Flow 1:
Average throughput: 52.81 Mbit/s
95th percentile per-packet one-way delay: 217.803 ms
Loss rate: 34.17%
-- Flow 2:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 209.321 ms
Loss rate: 37.80%
-- Flow 3:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 207.988 ms
Loss rate: 35.92%

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

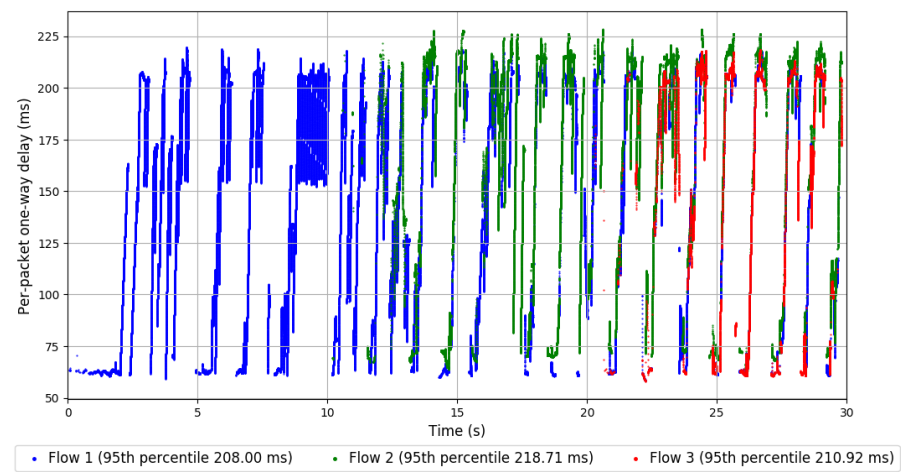
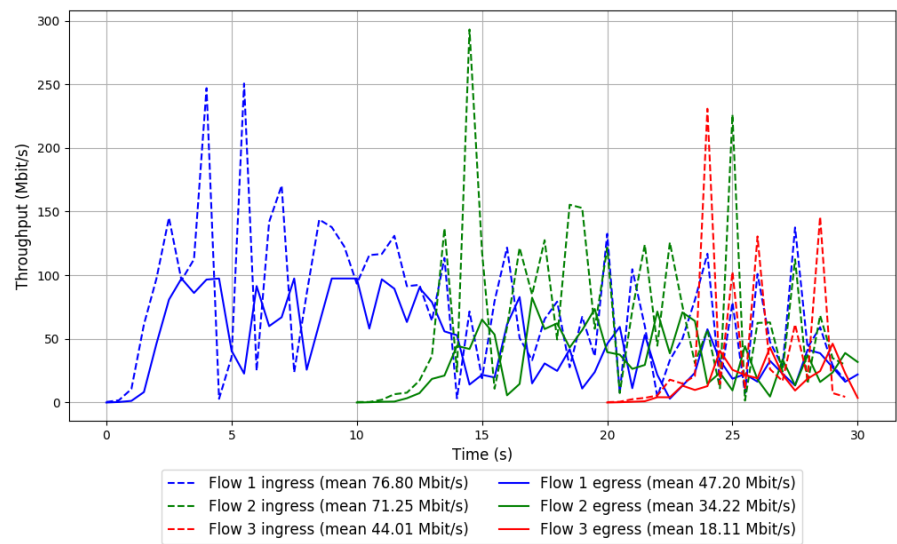


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-12-02 05:59:30
End at: 2018-12-02 06:00:00
Local clock offset: -10.116 ms
Remote clock offset: 38.139 ms

Below is generated by plot.py at 2018-12-02 07:01:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.42 Mbit/s
95th percentile per-packet one-way delay: 214.846 ms
Loss rate: 44.95%
-- Flow 1:
Average throughput: 47.20 Mbit/s
95th percentile per-packet one-way delay: 207.996 ms
Loss rate: 38.31%
-- Flow 2:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 218.713 ms
Loss rate: 51.61%
-- Flow 3:
Average throughput: 18.11 Mbit/s
95th percentile per-packet one-way delay: 210.917 ms
Loss rate: 58.88%

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

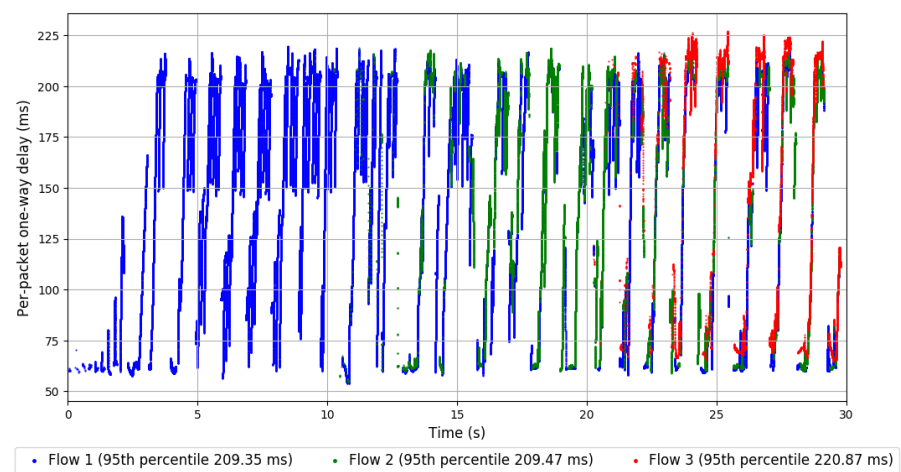
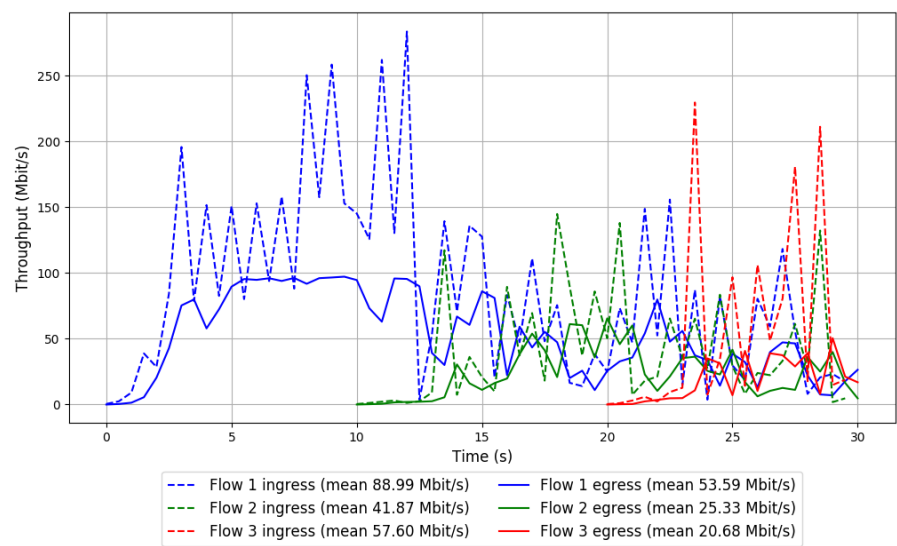


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-12-02 06:26:40
End at: 2018-12-02 06:27:10
Local clock offset: -17.402 ms
Remote clock offset: 39.674 ms

Below is generated by plot.py at 2018-12-02 07:01:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 212.755 ms
Loss rate: 43.04%
-- Flow 1:
Average throughput: 53.59 Mbit/s
95th percentile per-packet one-way delay: 209.351 ms
Loss rate: 39.66%
-- Flow 2:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 209.470 ms
Loss rate: 39.78%
-- Flow 3:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 220.873 ms
Loss rate: 64.18%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-12-02 06:53:59

End at: 2018-12-02 06:54:29

Local clock offset: -9.047 ms

Remote clock offset: 1.205 ms

Below is generated by plot.py at 2018-12-02 07:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 221.316 ms

Loss rate: 50.67%

-- Flow 1:

Average throughput: 49.08 Mbit/s

95th percentile per-packet one-way delay: 214.984 ms

Loss rate: 42.88%

-- Flow 2:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 227.504 ms

Loss rate: 59.55%

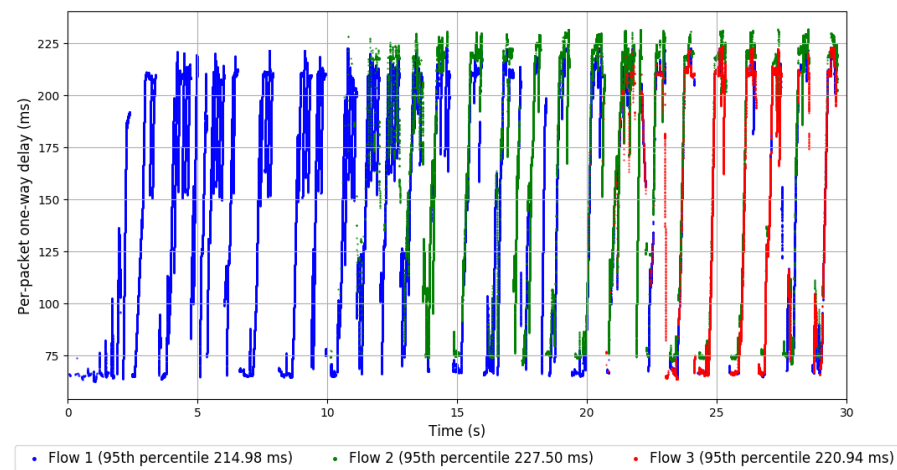
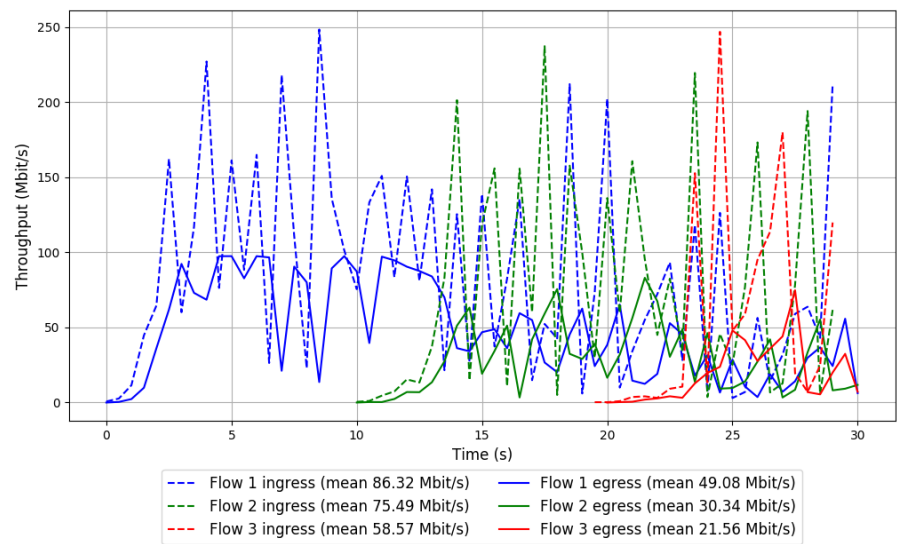
-- Flow 3:

Average throughput: 21.56 Mbit/s

95th percentile per-packet one-way delay: 220.935 ms

Loss rate: 62.84%

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

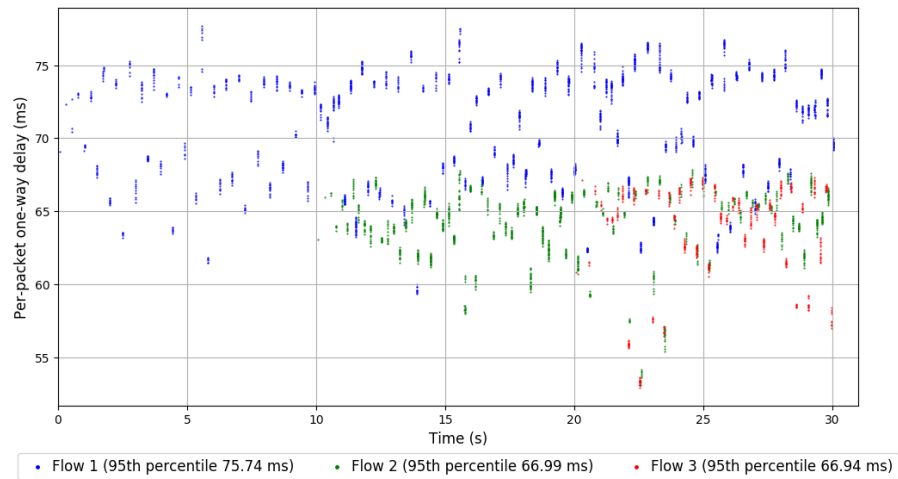
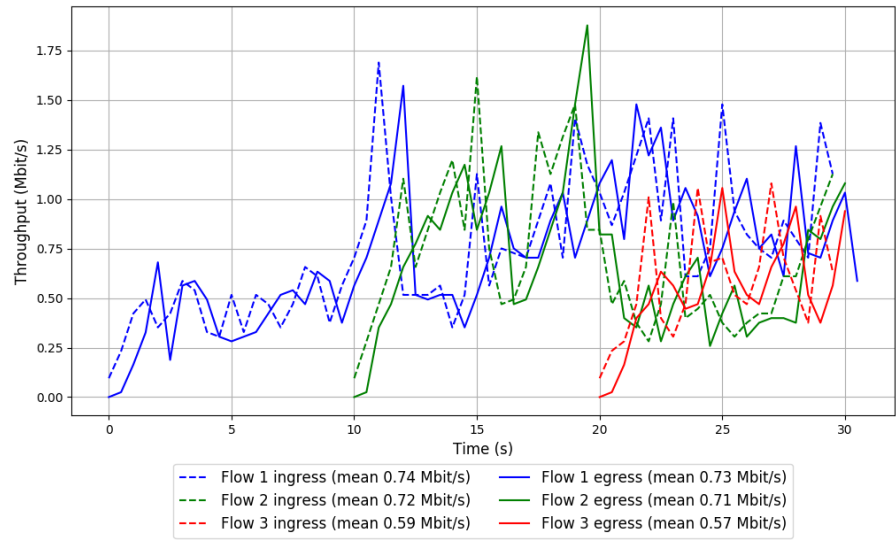


```
Run 1: Statistics of LEDBAT

Start at: 2018-12-02 04:53:32
End at: 2018-12-02 04:54:02
Local clock offset: 2.795 ms
Remote clock offset: 40.147 ms

# Below is generated by plot.py at 2018-12-02 07:02:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 74.975 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 75.743 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 66.993 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 66.944 ms
Loss rate: 2.63%
```

Run 1: Report of LEDBAT — Data Link

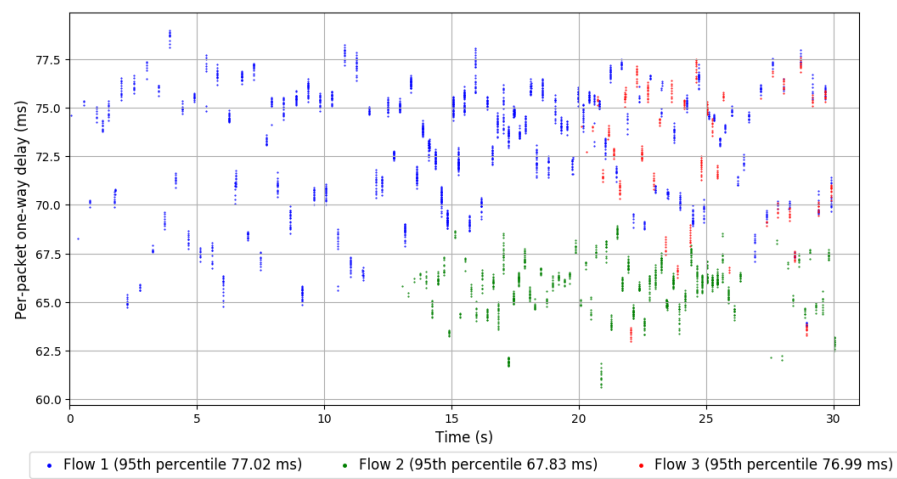
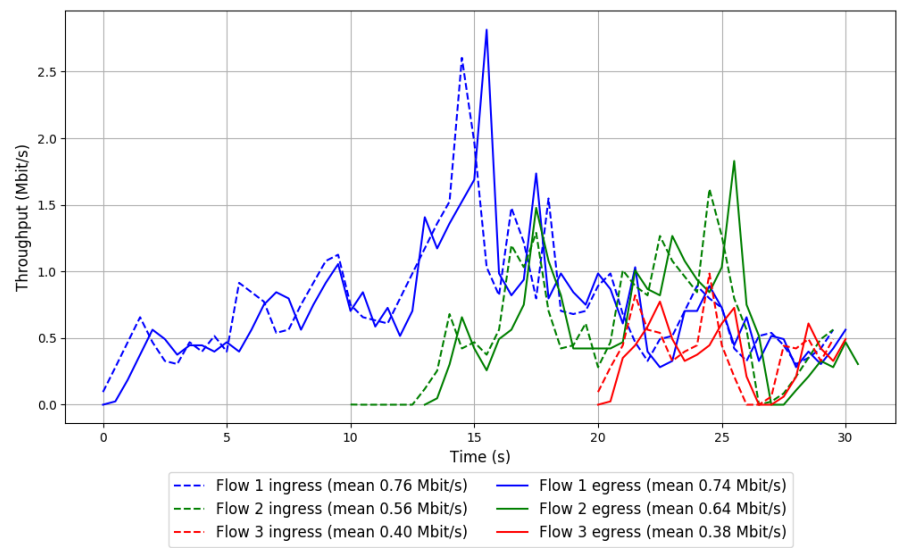


Run 2: Statistics of LEDBAT

Start at: 2018-12-02 05:20:21
End at: 2018-12-02 05:20:51
Local clock offset: 2.699 ms
Remote clock offset: 18.538 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 76.664 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 77.015 ms
Loss rate: 2.33%
-- Flow 2:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 67.831 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 76.989 ms
Loss rate: 3.90%

Run 2: Report of LEDBAT — Data Link

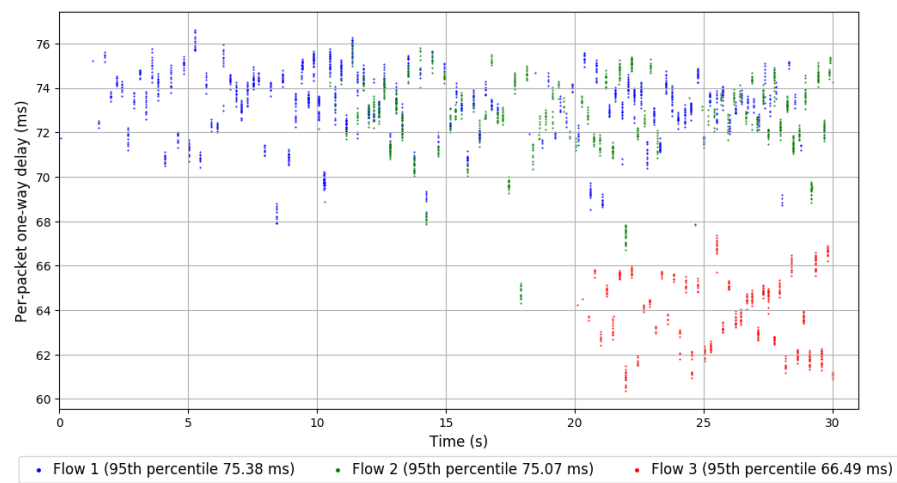
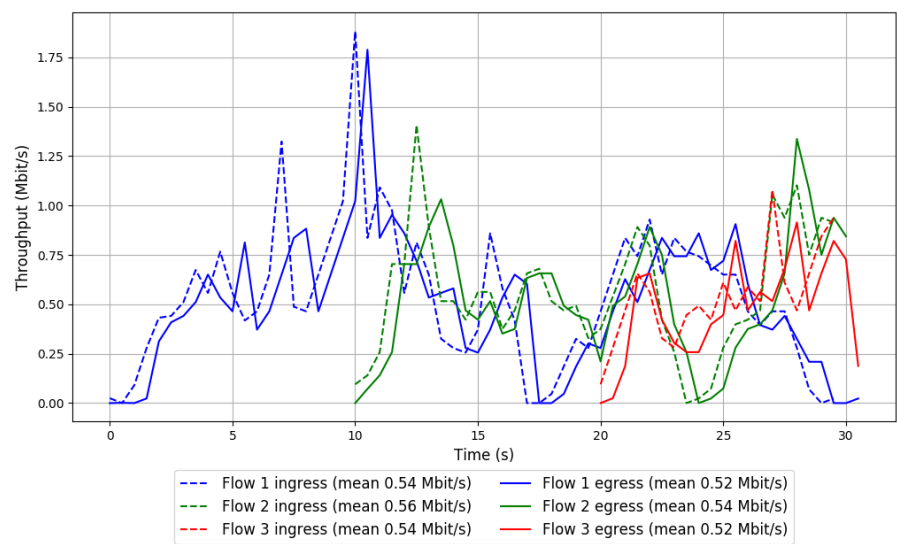


Run 3: Statistics of LEDBAT

Start at: 2018-12-02 05:47:15
End at: 2018-12-02 05:47:45
Local clock offset: -0.212 ms
Remote clock offset: 35.741 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 75.190 ms
Loss rate: 3.31%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 75.383 ms
Loss rate: 3.57%
-- Flow 2:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 75.067 ms
Loss rate: 2.76%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 66.490 ms
Loss rate: 3.69%

Run 3: Report of LEDBAT — Data Link

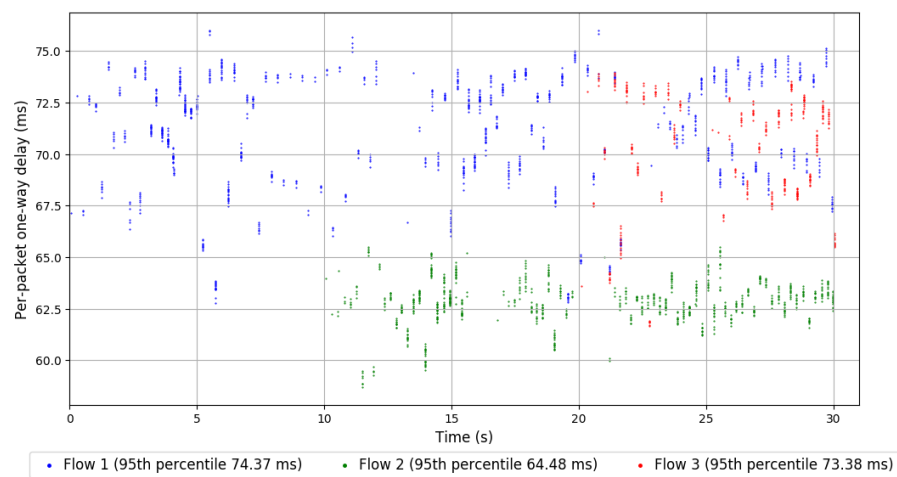
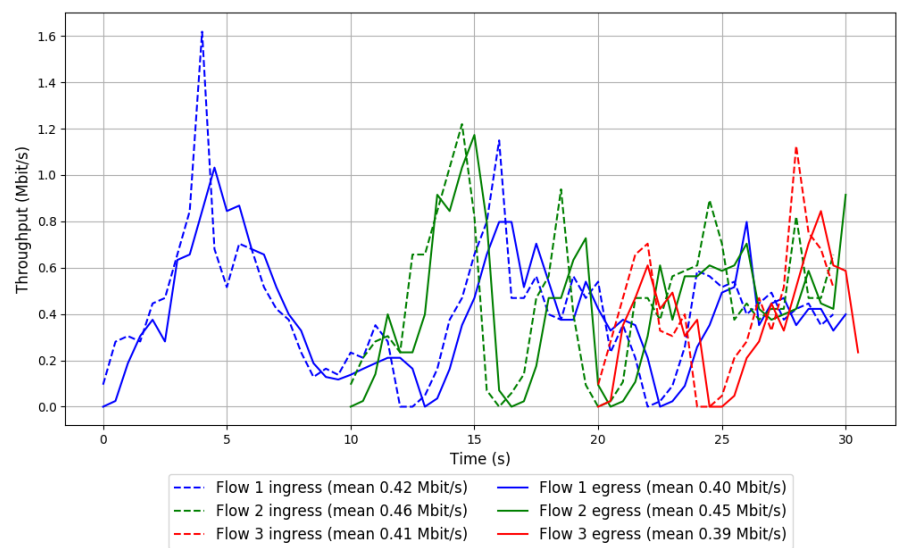


Run 4: Statistics of LEDBAT

Start at: 2018-12-02 06:14:08
End at: 2018-12-02 06:14:38
Local clock offset: -14.981 ms
Remote clock offset: 38.816 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 74.059 ms
Loss rate: 3.36%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 74.370 ms
Loss rate: 3.92%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 64.484 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 73.375 ms
Loss rate: 3.74%

Run 4: Report of LEDBAT — Data Link

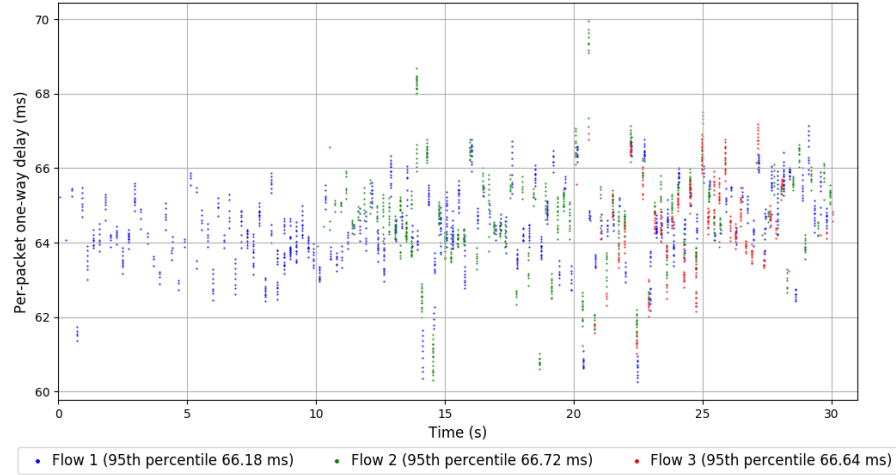
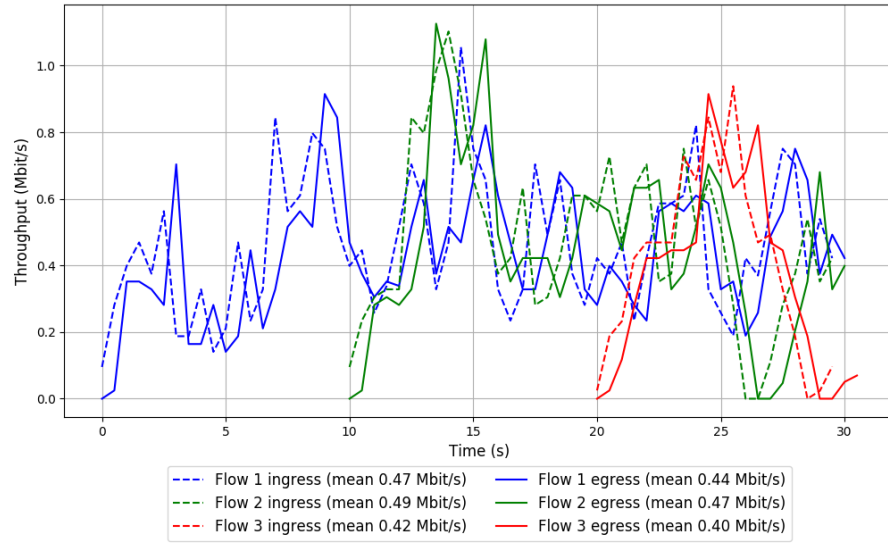


Run 5: Statistics of LEDBAT

Start at: 2018-12-02 06:41:18
End at: 2018-12-02 06:41:48
Local clock offset: -19.907 ms
Remote clock offset: 21.592 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 66.506 ms
Loss rate: 4.36%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.183 ms
Loss rate: 4.83%
-- Flow 2:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 66.725 ms
Loss rate: 3.75%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 66.641 ms
Loss rate: 4.22%

Run 5: Report of LEDBAT — Data Link

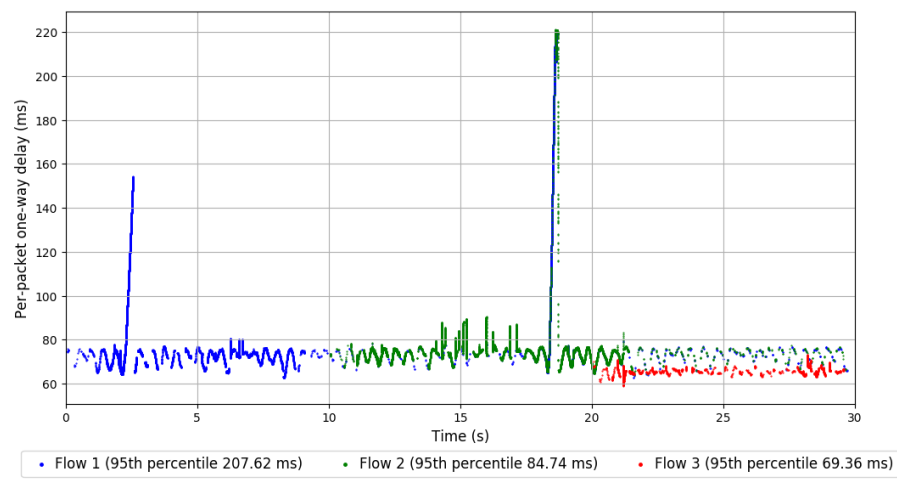
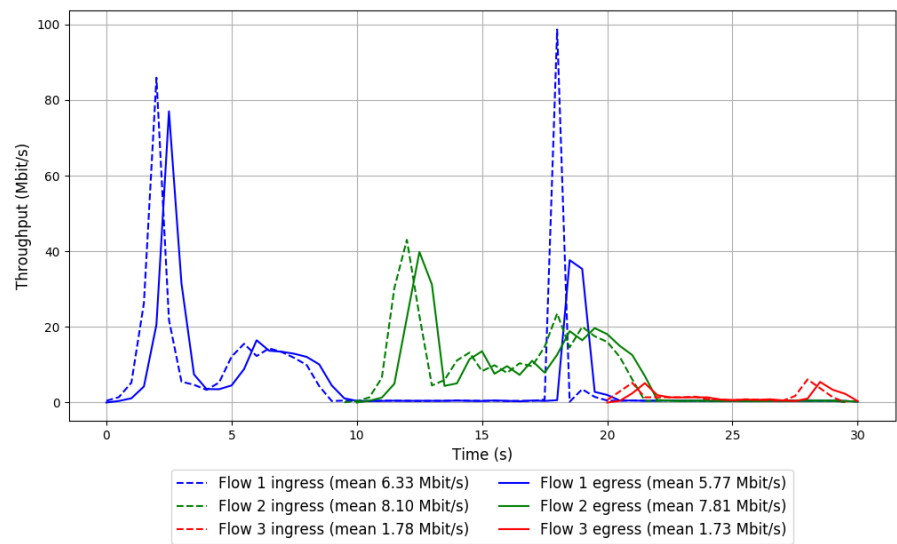


Run 1: Statistics of Indigo-Muses

Start at: 2018-12-02 04:59:05
End at: 2018-12-02 04:59:35
Local clock offset: 2.85 ms
Remote clock offset: 30.976 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 168.057 ms
Loss rate: 6.37%
-- Flow 1:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 207.623 ms
Loss rate: 8.99%
-- Flow 2:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 84.742 ms
Loss rate: 3.58%
-- Flow 3:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 69.360 ms
Loss rate: 3.36%

Run 1: Report of Indigo-Muses — Data Link

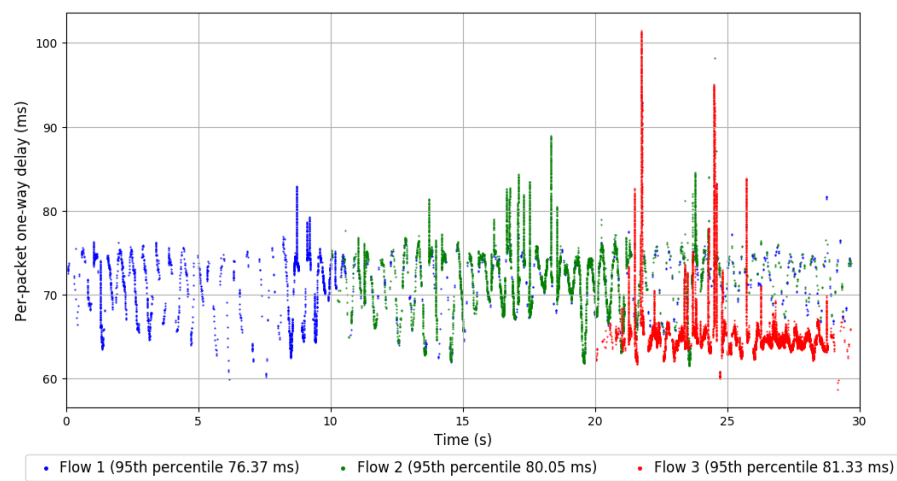
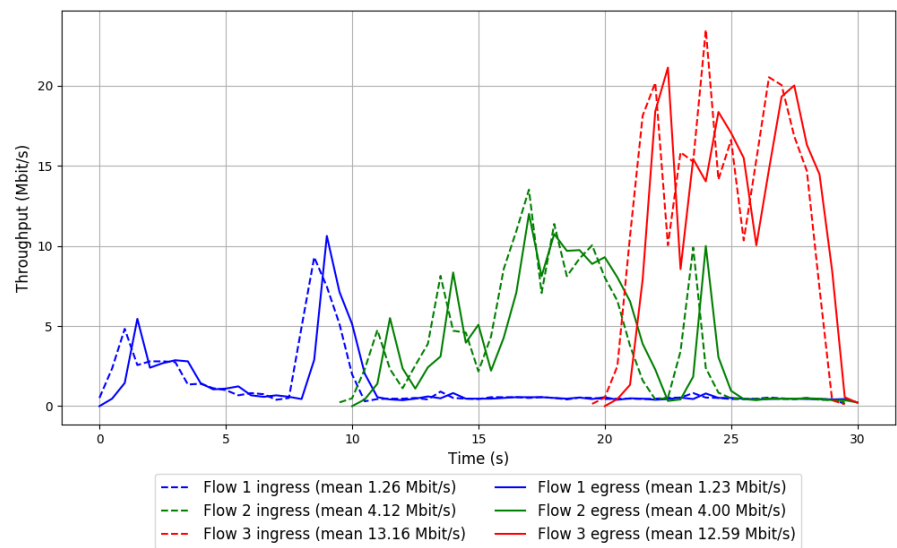


Run 2: Statistics of Indigo-Muses

Start at: 2018-12-02 05:25:46
End at: 2018-12-02 05:26:16
Local clock offset: 1.536 ms
Remote clock offset: 15.784 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 79.816 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 76.369 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 80.045 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 81.330 ms
Loss rate: 4.29%

Run 2: Report of Indigo-Muses — Data Link

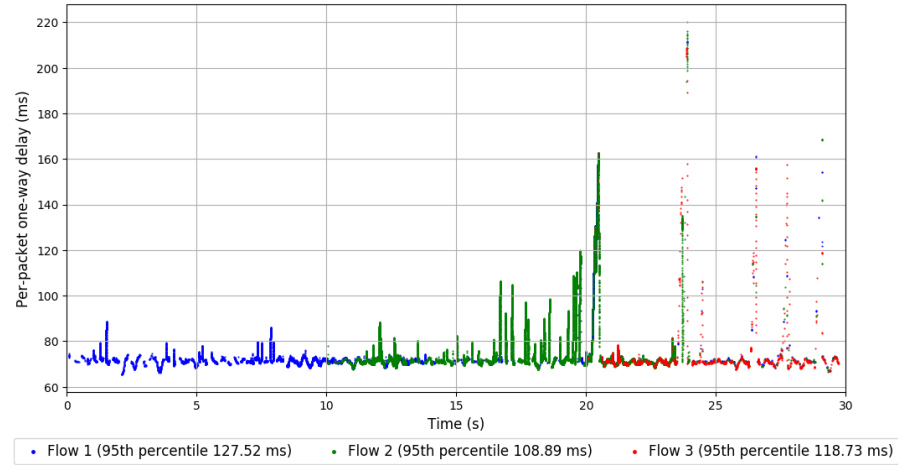
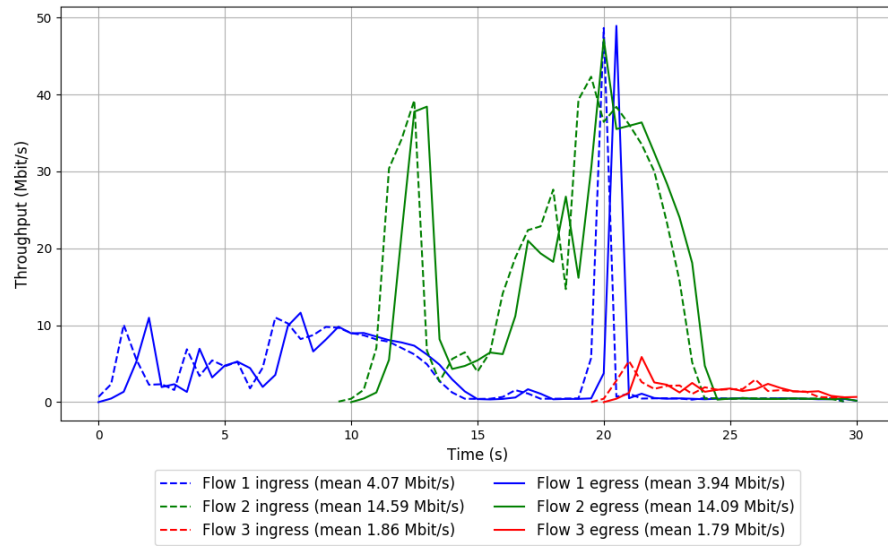


Run 3: Statistics of Indigo-Muses

Start at: 2018-12-02 05:52:37
End at: 2018-12-02 05:53:07
Local clock offset: -5.211 ms
Remote clock offset: 36.874 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 115.712 ms
Loss rate: 3.37%
-- Flow 1:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 127.524 ms
Loss rate: 3.15%
-- Flow 2:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 108.891 ms
Loss rate: 3.44%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 118.727 ms
Loss rate: 3.84%

Run 3: Report of Indigo-Muses — Data Link

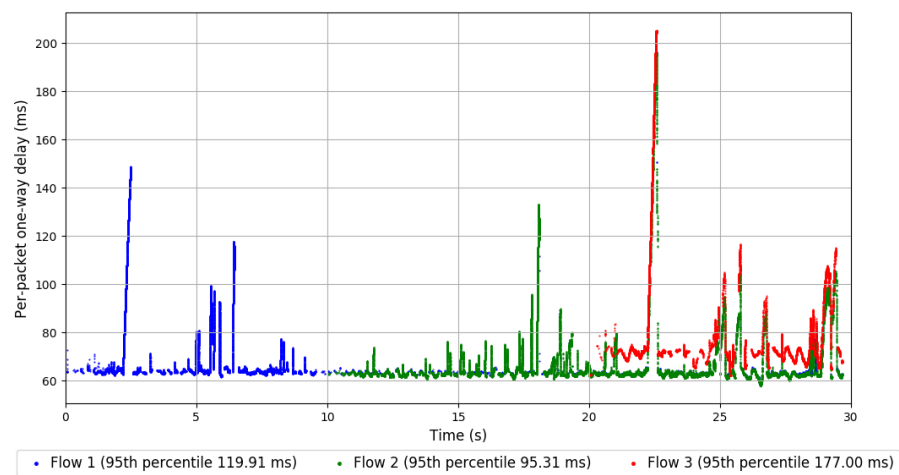
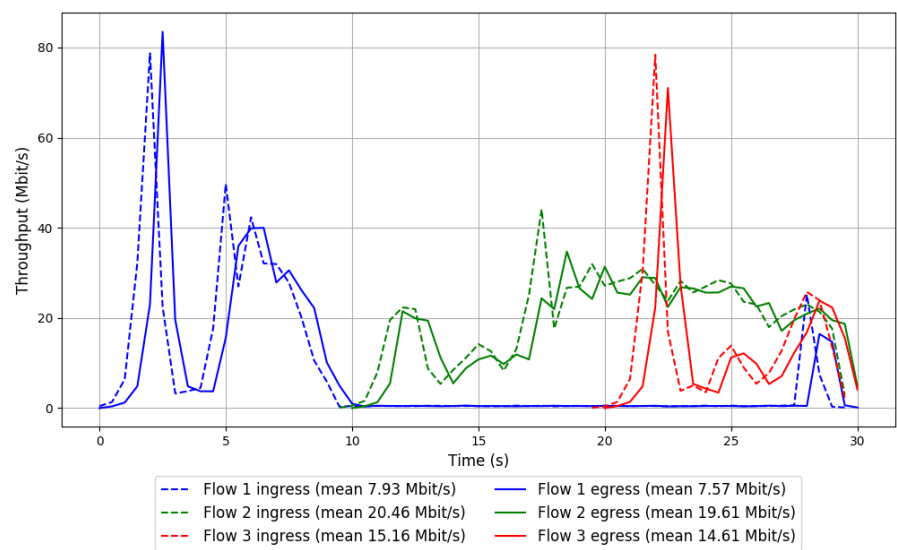


Run 4: Statistics of Indigo-Muses

Start at: 2018-12-02 06:19:42
End at: 2018-12-02 06:20:12
Local clock offset: -16.031 ms
Remote clock offset: 39.763 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 121.975 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 119.911 ms
Loss rate: 4.52%
-- Flow 2:
Average throughput: 19.61 Mbit/s
95th percentile per-packet one-way delay: 95.314 ms
Loss rate: 4.17%
-- Flow 3:
Average throughput: 14.61 Mbit/s
95th percentile per-packet one-way delay: 176.998 ms
Loss rate: 3.55%

Run 4: Report of Indigo-Muses — Data Link

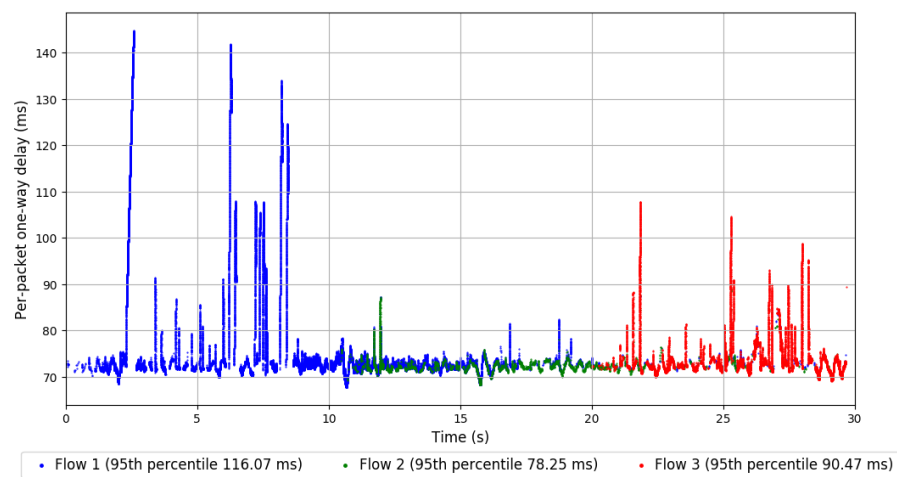
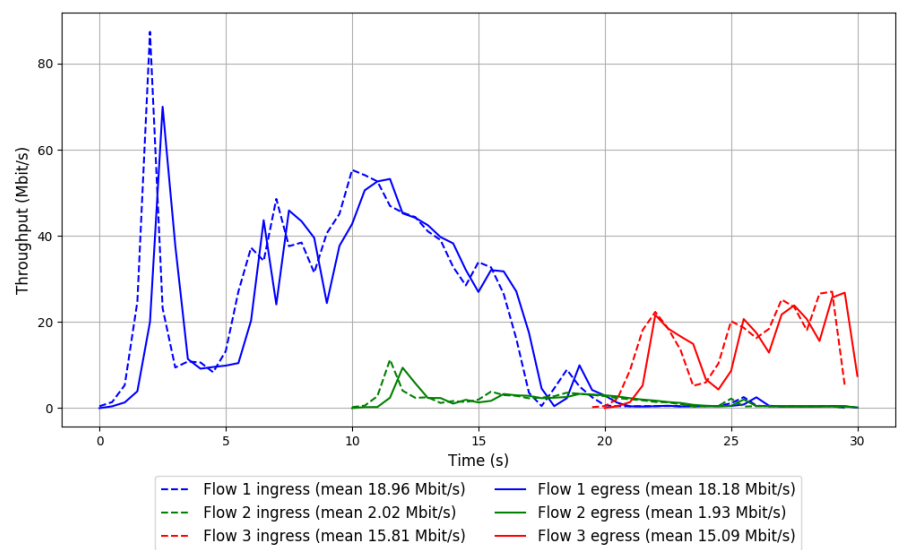


Run 5: Statistics of Indigo-Muses

Start at: 2018-12-02 06:46:53
End at: 2018-12-02 06:47:23
Local clock offset: -20.816 ms
Remote clock offset: 9.297 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 107.101 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 116.070 ms
Loss rate: 4.09%
-- Flow 2:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 78.246 ms
Loss rate: 4.08%
-- Flow 3:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 90.475 ms
Loss rate: 4.42%

Run 5: Report of Indigo-Muses — Data Link

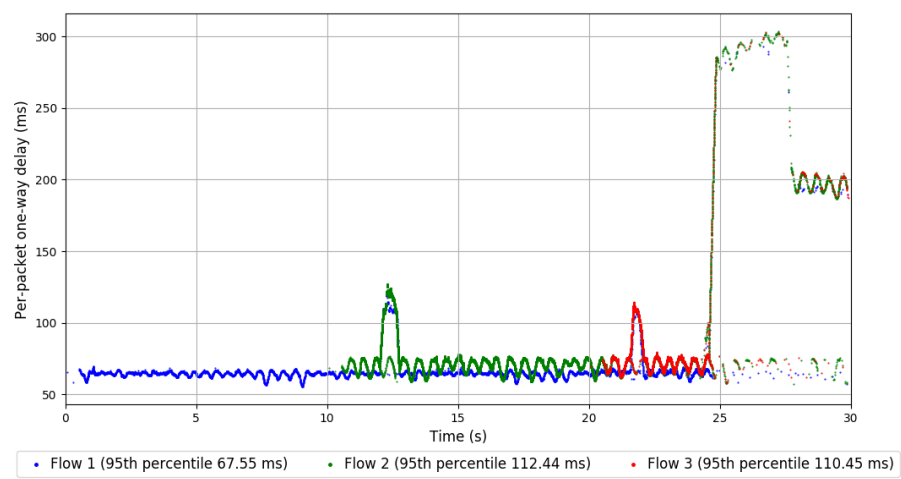
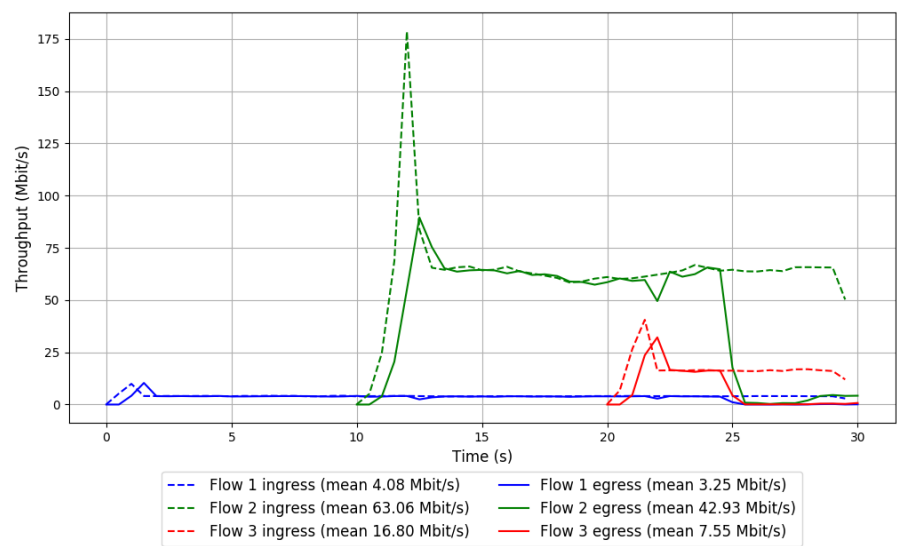


Run 1: Statistics of PCC-Allegro

Start at: 2018-12-02 04:45:15
End at: 2018-12-02 04:45:45
Local clock offset: 2.712 ms
Remote clock offset: 42.012 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.19 Mbit/s
95th percentile per-packet one-way delay: 110.096 ms
Loss rate: 33.76%
-- Flow 1:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 67.554 ms
Loss rate: 20.43%
-- Flow 2:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 112.438 ms
Loss rate: 32.22%
-- Flow 3:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 110.452 ms
Loss rate: 55.24%

Run 1: Report of PCC-Allegro — Data Link

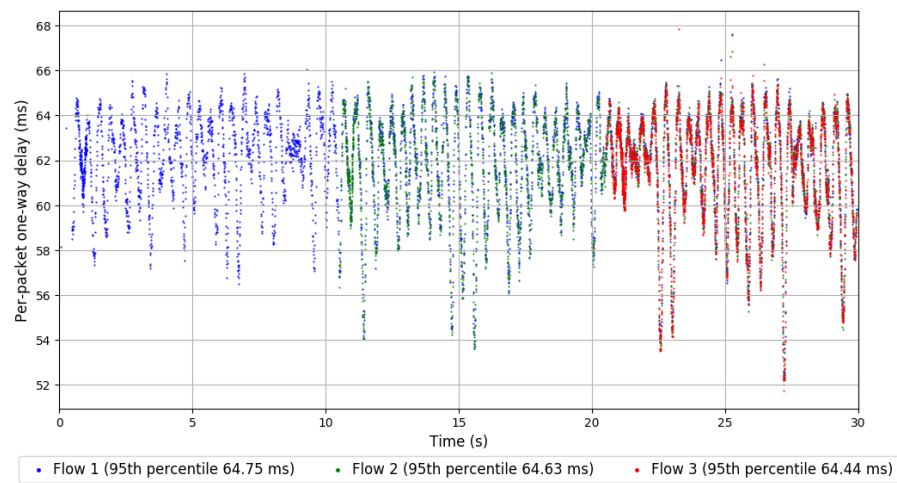
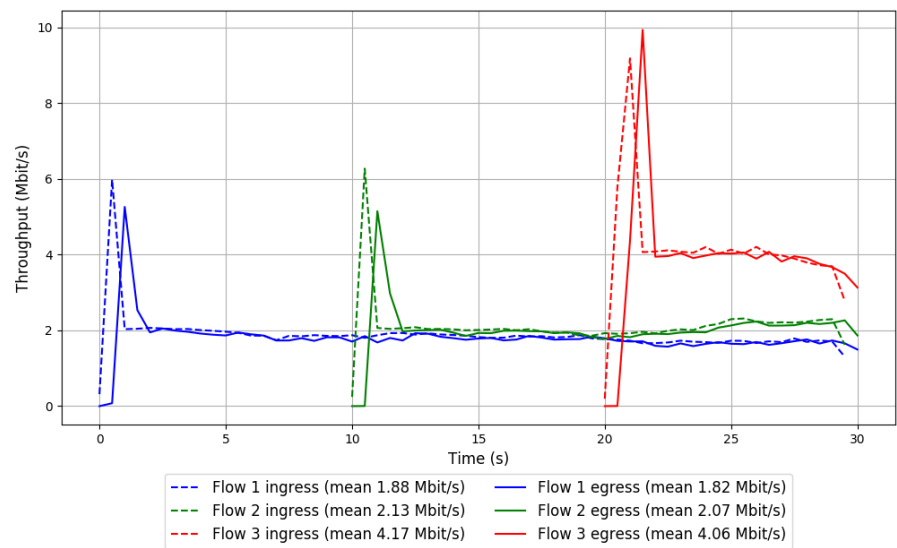


Run 2: Statistics of PCC-Allegro

Start at: 2018-12-02 05:12:07
End at: 2018-12-02 05:12:37
Local clock offset: 3.205 ms
Remote clock offset: 18.058 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 64.626 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 64.749 ms
Loss rate: 3.12%
-- Flow 2:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 64.629 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 64.441 ms
Loss rate: 2.47%

Run 2: Report of PCC-Allegro — Data Link

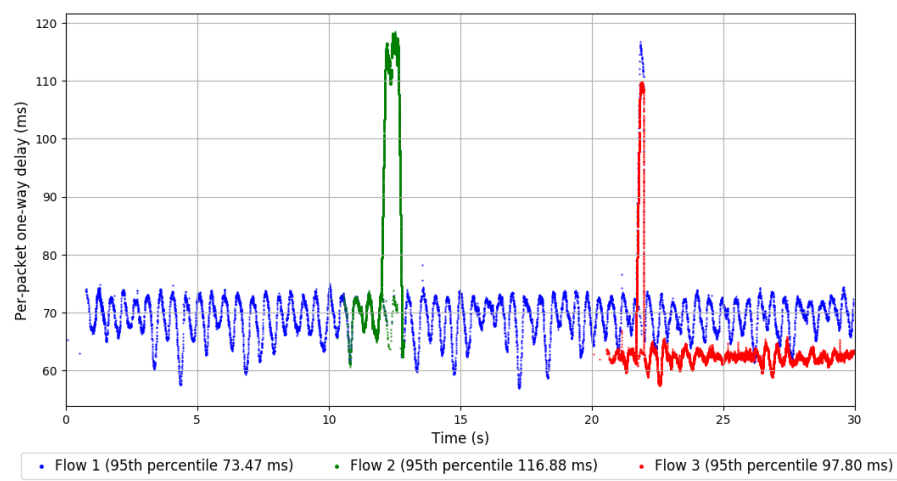
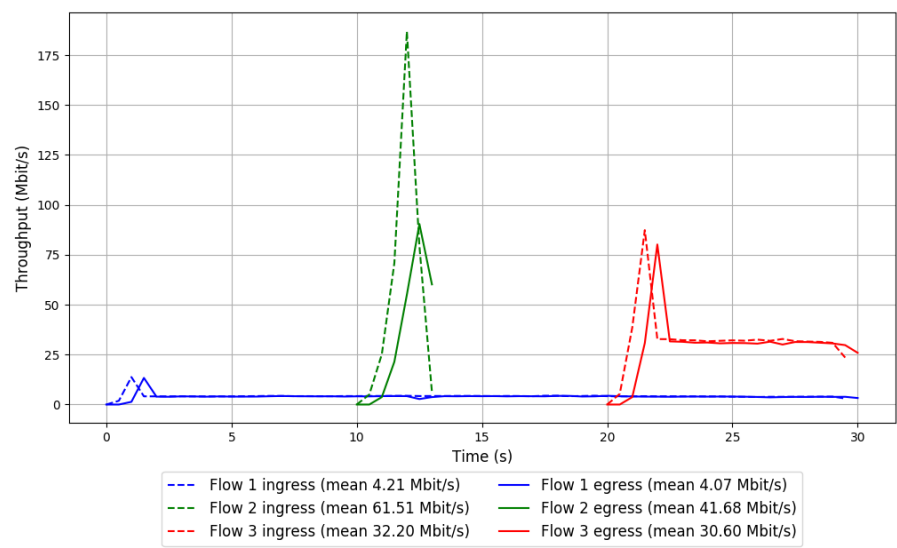


Run 3: Statistics of PCC-Allegro

Start at: 2018-12-02 05:39:01
End at: 2018-12-02 05:39:31
Local clock offset: 0.186 ms
Remote clock offset: 29.876 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.04 Mbit/s
95th percentile per-packet one-way delay: 114.197 ms
Loss rate: 14.52%
-- Flow 1:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 73.467 ms
Loss rate: 3.40%
-- Flow 2:
Average throughput: 41.68 Mbit/s
95th percentile per-packet one-way delay: 116.879 ms
Loss rate: 38.24%
-- Flow 3:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 97.799 ms
Loss rate: 4.96%

Run 3: Report of PCC-Allegro — Data Link

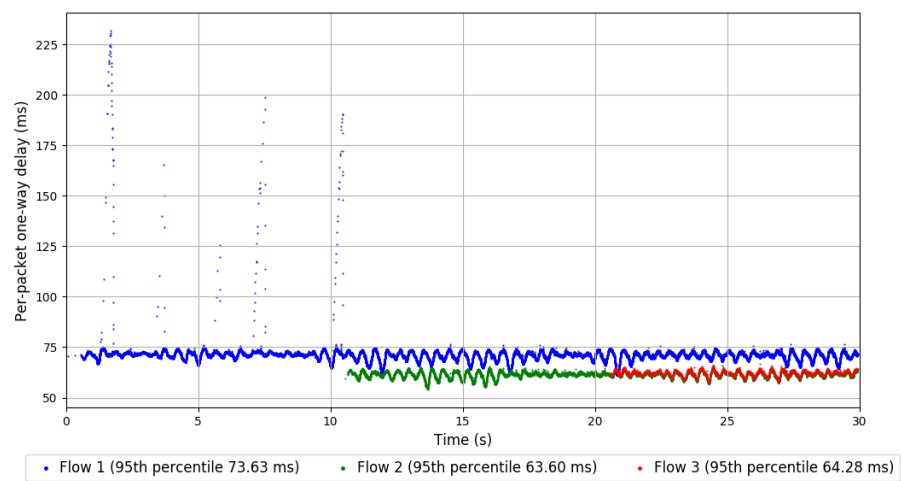
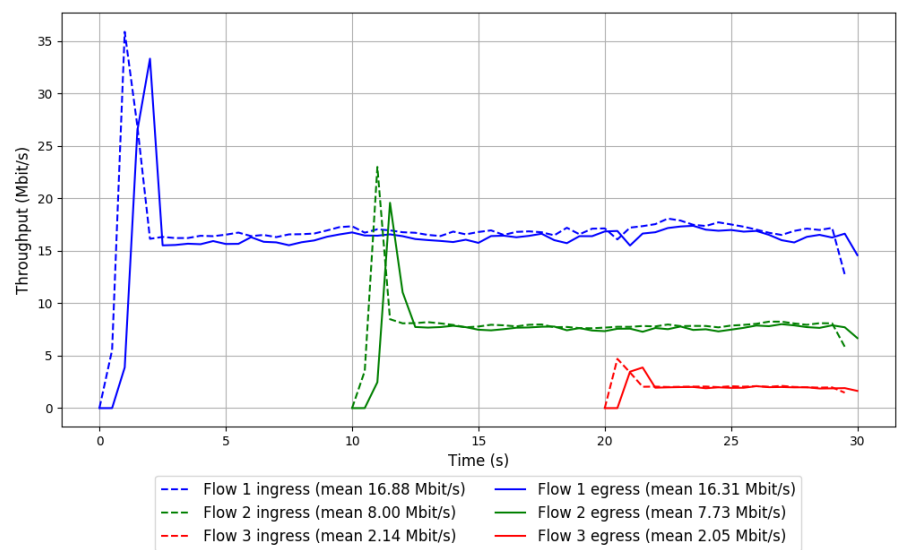


Run 4: Statistics of PCC-Allegro

Start at: 2018-12-02 06:05:44
End at: 2018-12-02 06:06:14
Local clock offset: -12.609 ms
Remote clock offset: 38.289 ms

Below is generated by plot.py at 2018-12-02 07:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.13 Mbit/s
95th percentile per-packet one-way delay: 73.446 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 16.31 Mbit/s
95th percentile per-packet one-way delay: 73.631 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 63.603 ms
Loss rate: 3.32%
-- Flow 3:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 64.285 ms
Loss rate: 4.10%

Run 4: Report of PCC-Allegro — Data Link

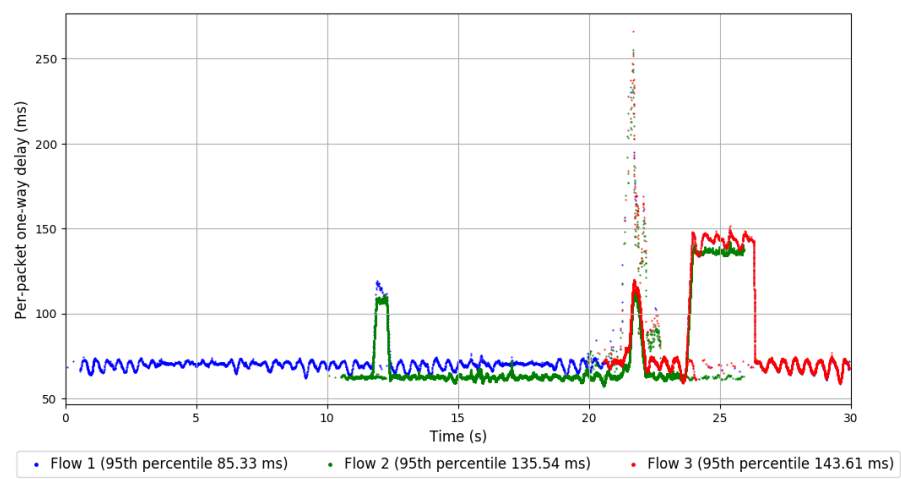
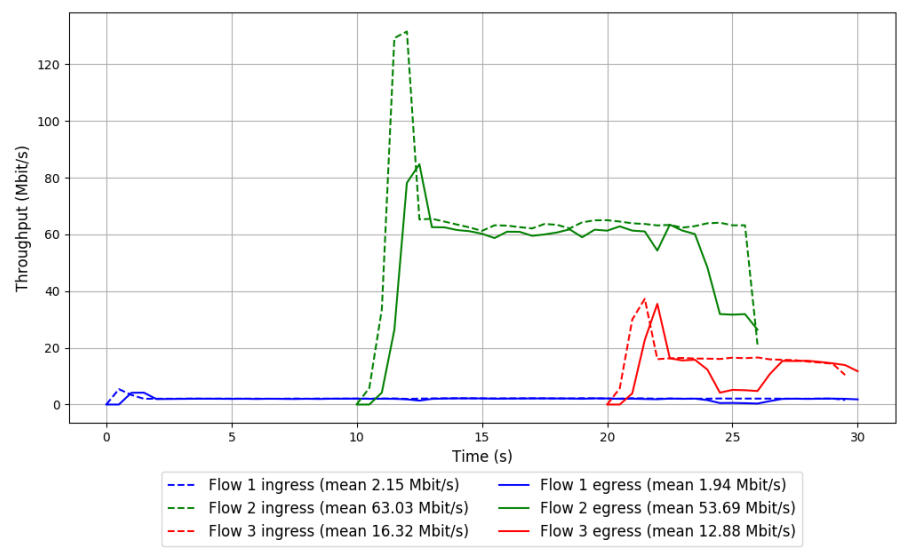


Run 5: Statistics of PCC-Allegro

Start at: 2018-12-02 06:32:42
End at: 2018-12-02 06:33:12
Local clock offset: -18.38 ms
Remote clock offset: 41.043 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 135.662 ms
Loss rate: 16.75%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 85.331 ms
Loss rate: 9.54%
-- Flow 2:
Average throughput: 53.69 Mbit/s
95th percentile per-packet one-way delay: 135.536 ms
Loss rate: 16.51%
-- Flow 3:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 143.613 ms
Loss rate: 21.19%

Run 5: Report of PCC-Allegro — Data Link

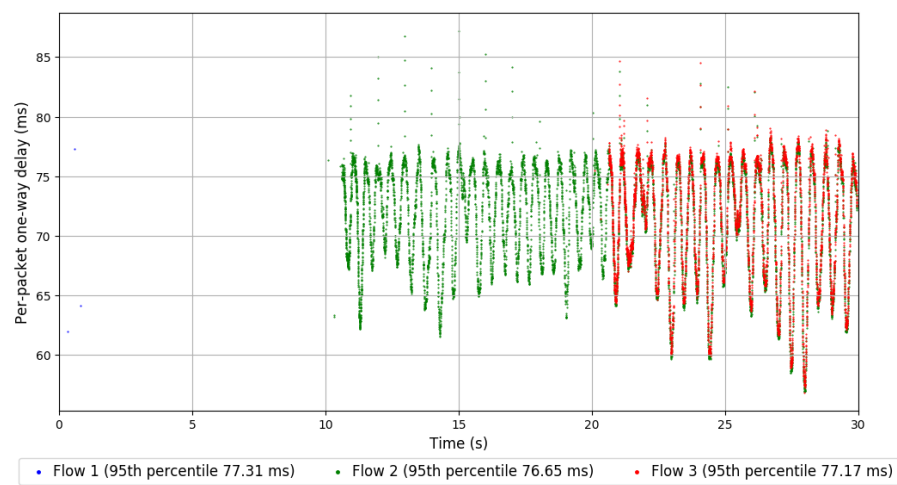
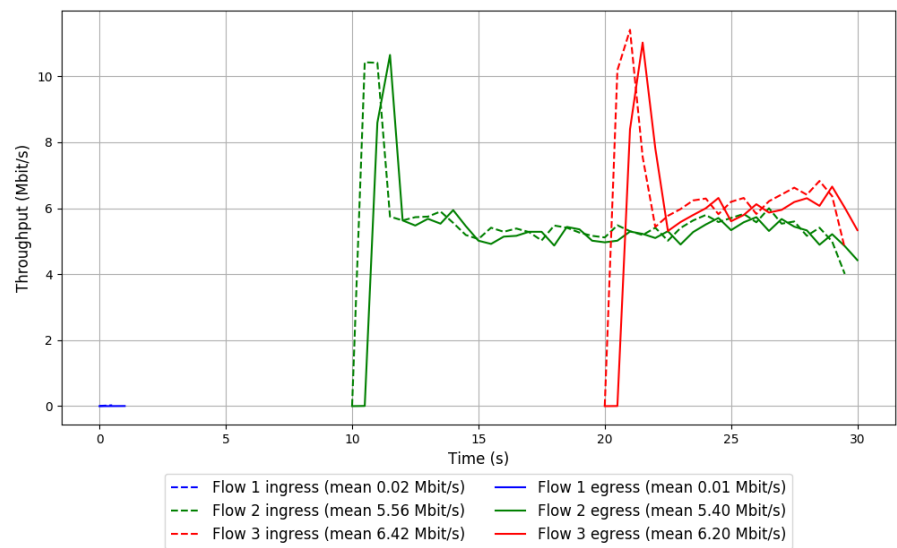


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-02 04:46:42
End at: 2018-12-02 04:47:12
Local clock offset: 2.772 ms
Remote clock offset: 43.744 ms

# Below is generated by plot.py at 2018-12-02 07:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 76.857 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 77.311 ms
Loss rate: 81.25%
-- Flow 2:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 76.650 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 77.167 ms
Loss rate: 3.56%
```

Run 1: Report of PCC-Expr — Data Link

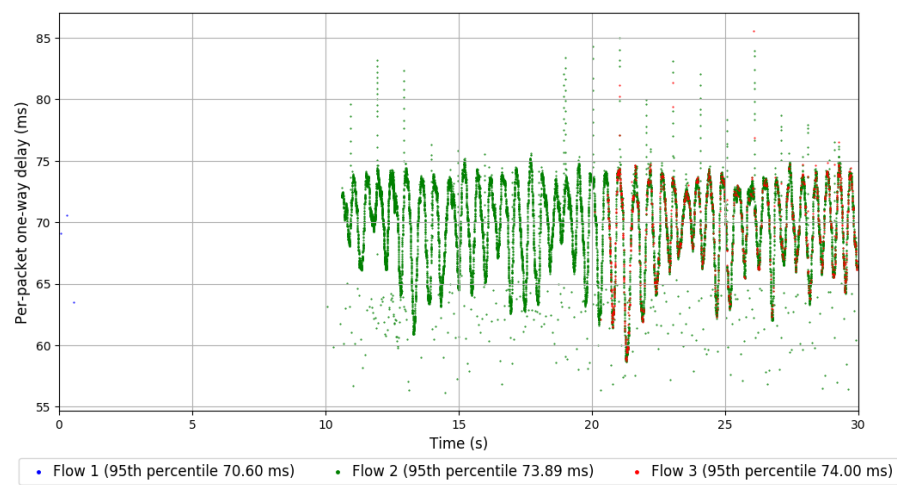
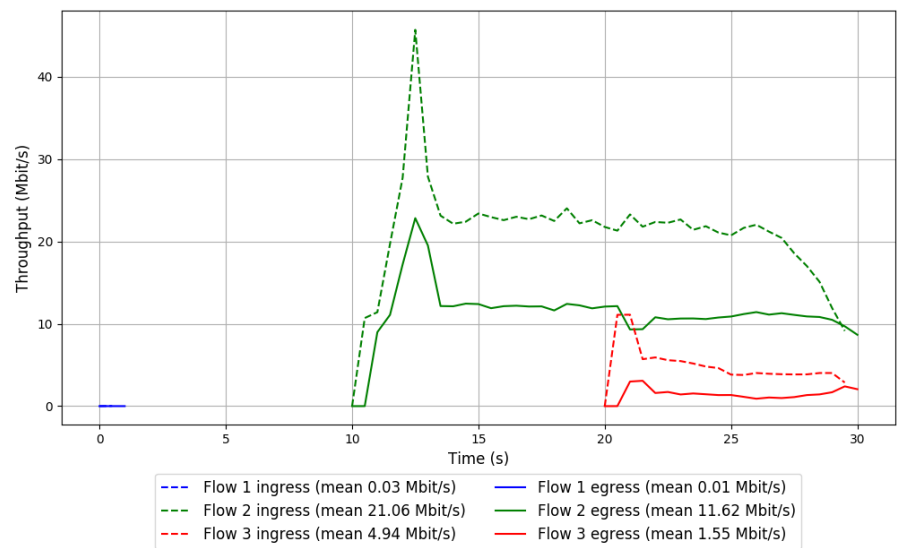


```
Run 2: Statistics of PCC-Expr

Start at: 2018-12-02 05:13:31
End at: 2018-12-02 05:14:01
Local clock offset: 3.316 ms
Remote clock offset: 17.72 ms

# Below is generated by plot.py at 2018-12-02 07:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 73.897 ms
Loss rate: 47.34%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 70.603 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 73.890 ms
Loss rate: 44.86%
-- Flow 3:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 74.000 ms
Loss rate: 68.66%
```

Run 2: Report of PCC-Expr — Data Link

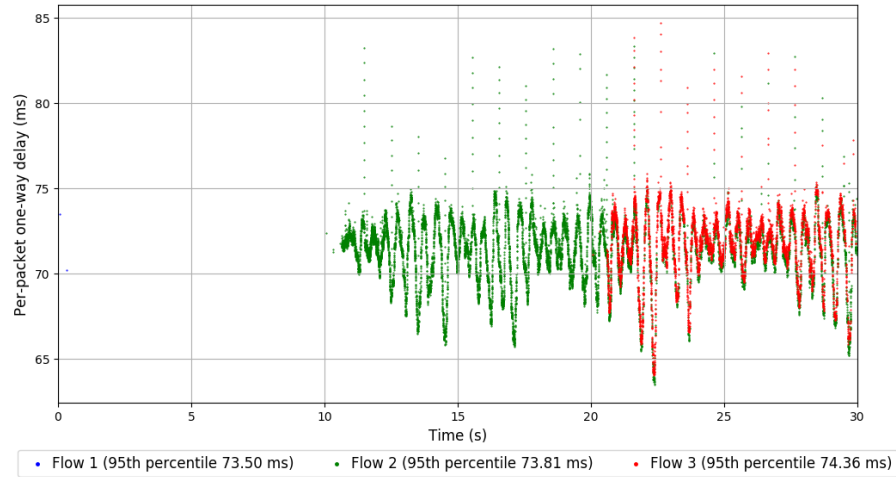
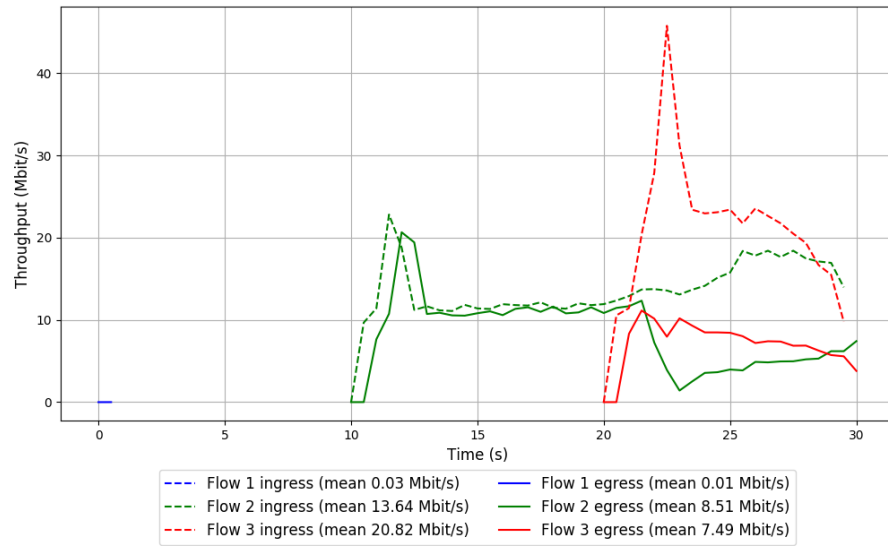


Run 3: Statistics of PCC-Expr

Start at: 2018-12-02 05:40:23
End at: 2018-12-02 05:40:53
Local clock offset: 0.136 ms
Remote clock offset: 31.672 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 74.002 ms
Loss rate: 49.05%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 73.499 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 73.810 ms
Loss rate: 37.61%
-- Flow 3:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 74.359 ms
Loss rate: 64.15%

Run 3: Report of PCC-Expr — Data Link

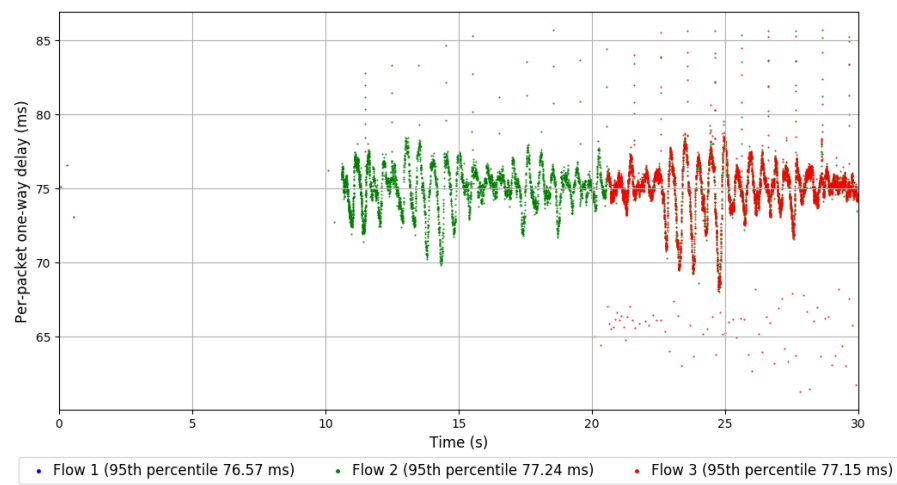
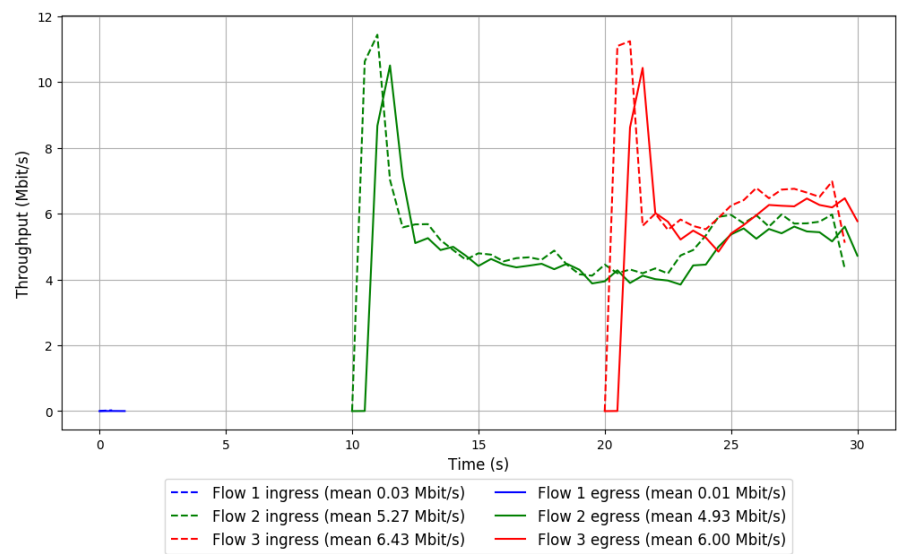


```
Run 4: Statistics of PCC-Expr

Start at: 2018-12-02 06:07:07
End at: 2018-12-02 06:07:37
Local clock offset: -13.043 ms
Remote clock offset: 42.201 ms

# Below is generated by plot.py at 2018-12-02 07:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.26 Mbit/s
95th percentile per-packet one-way delay: 77.200 ms
Loss rate: 6.54%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 76.569 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 77.237 ms
Loss rate: 6.46%
-- Flow 3:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 77.147 ms
Loss rate: 6.64%
```

Run 4: Report of PCC-Expr — Data Link

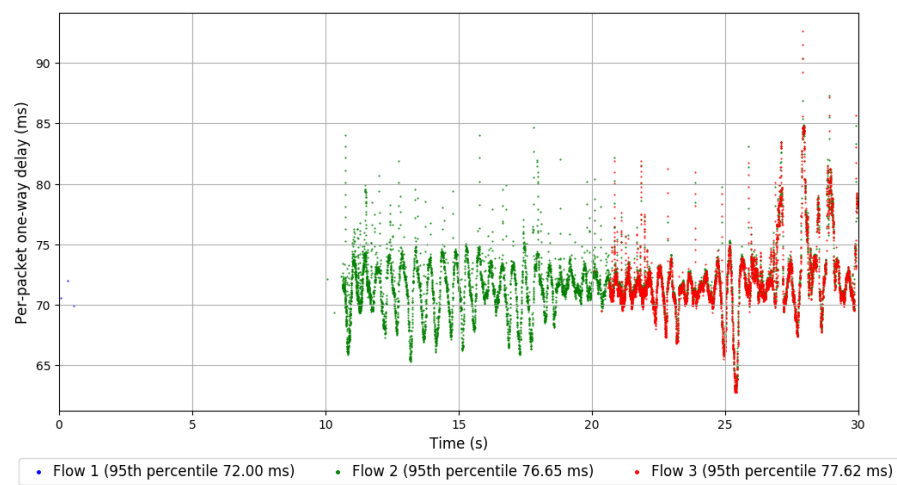
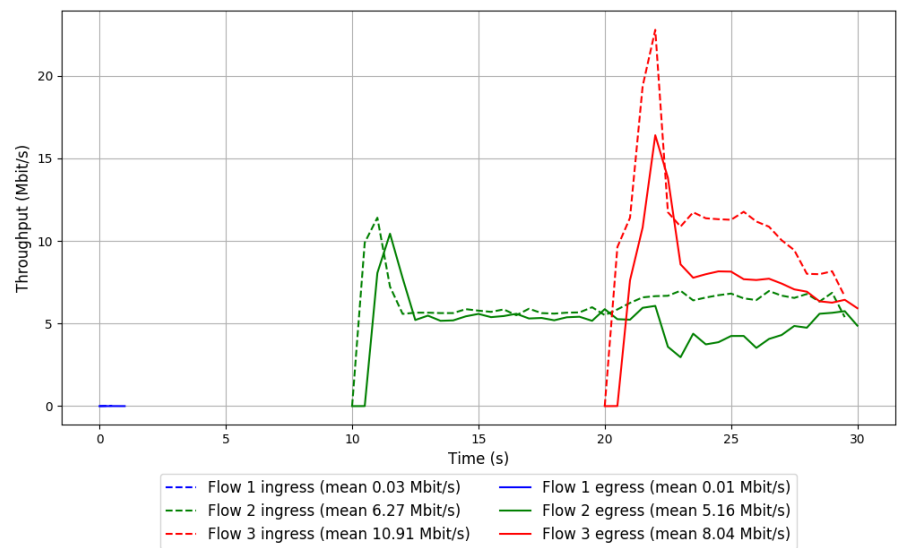


Run 5: Statistics of PCC-Expr

Start at: 2018-12-02 06:34:20
End at: 2018-12-02 06:34:50
Local clock offset: -18.765 ms
Remote clock offset: 41.776 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 77.173 ms
Loss rate: 21.71%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 72.001 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 76.650 ms
Loss rate: 17.67%
-- Flow 3:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 77.624 ms
Loss rate: 26.37%

Run 5: Report of PCC-Expr — Data Link

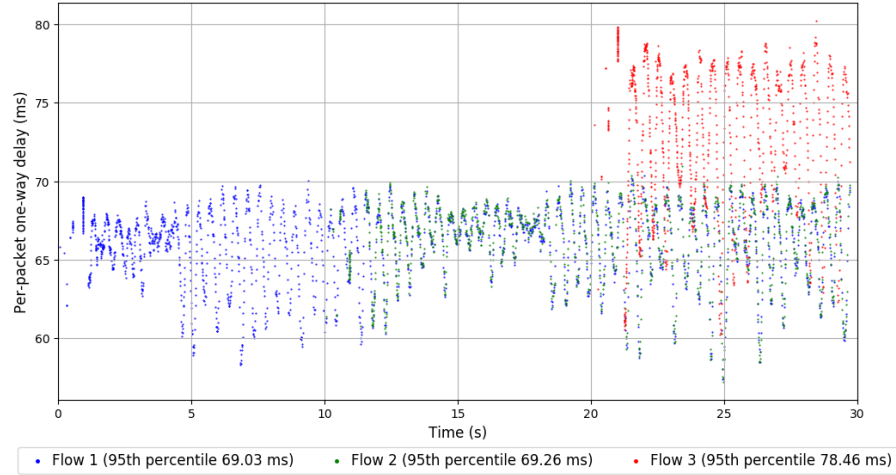
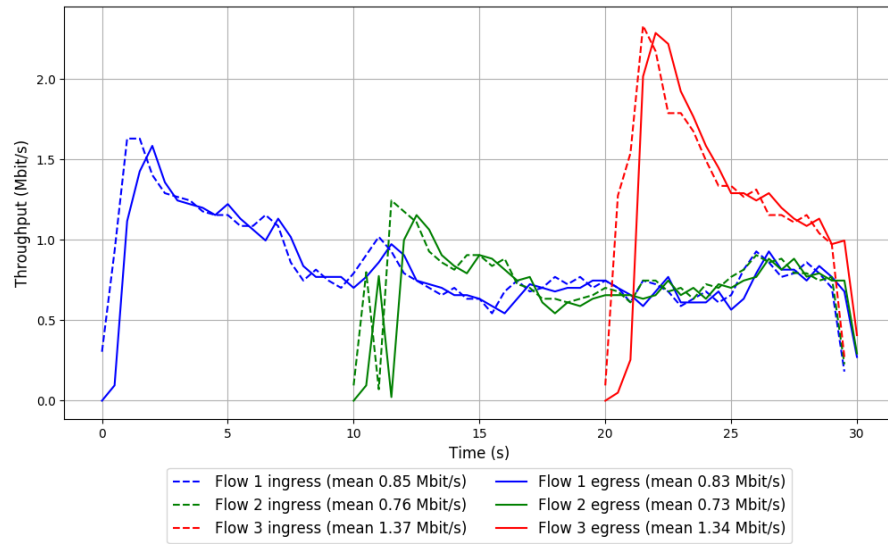


Run 1: Statistics of QUIC Cubic

Start at: 2018-12-02 04:54:52
End at: 2018-12-02 04:55:22
Local clock offset: 2.709 ms
Remote clock offset: 40.036 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 77.041 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 69.033 ms
Loss rate: 2.79%
-- Flow 2:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 69.257 ms
Loss rate: 3.66%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 78.460 ms
Loss rate: 2.59%

Run 1: Report of QUIC Cubic — Data Link

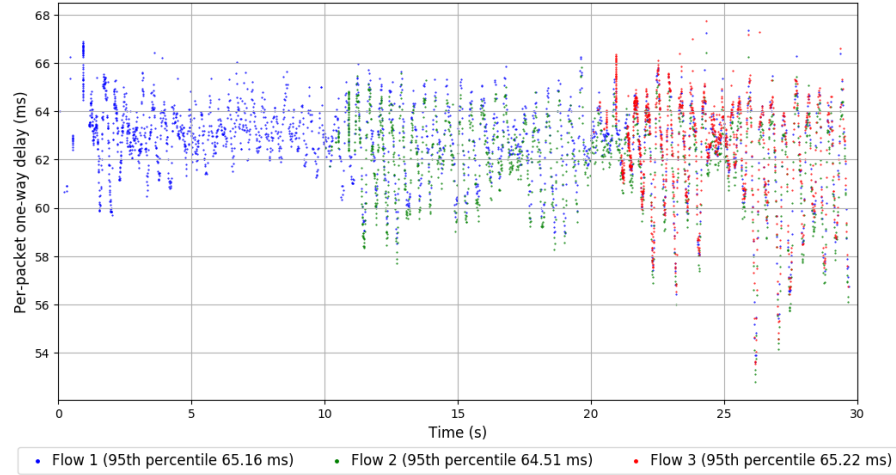
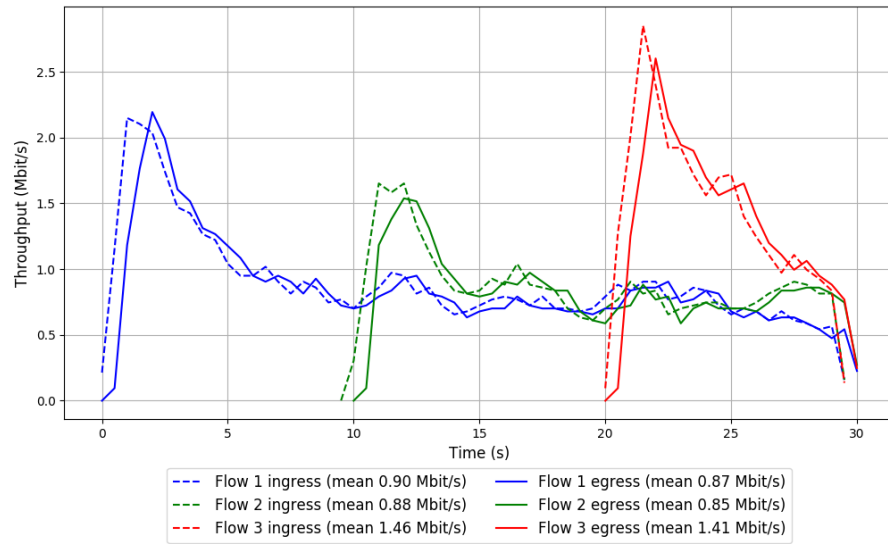


Run 2: Statistics of QUIC Cubic

Start at: 2018-12-02 05:21:41
End at: 2018-12-02 05:22:11
Local clock offset: 2.35 ms
Remote clock offset: 15.371 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 64.992 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 65.164 ms
Loss rate: 3.40%
-- Flow 2:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 64.507 ms
Loss rate: 3.48%
-- Flow 3:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 65.220 ms
Loss rate: 3.41%

Run 2: Report of QUIC Cubic — Data Link

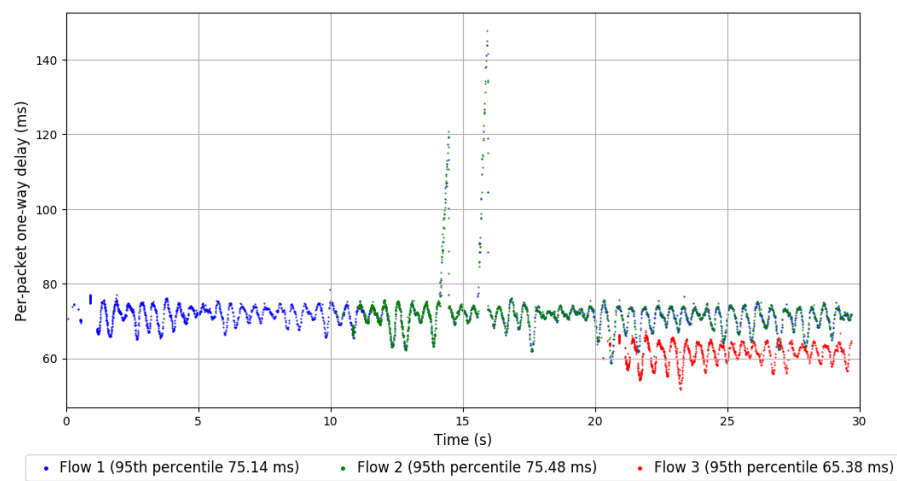
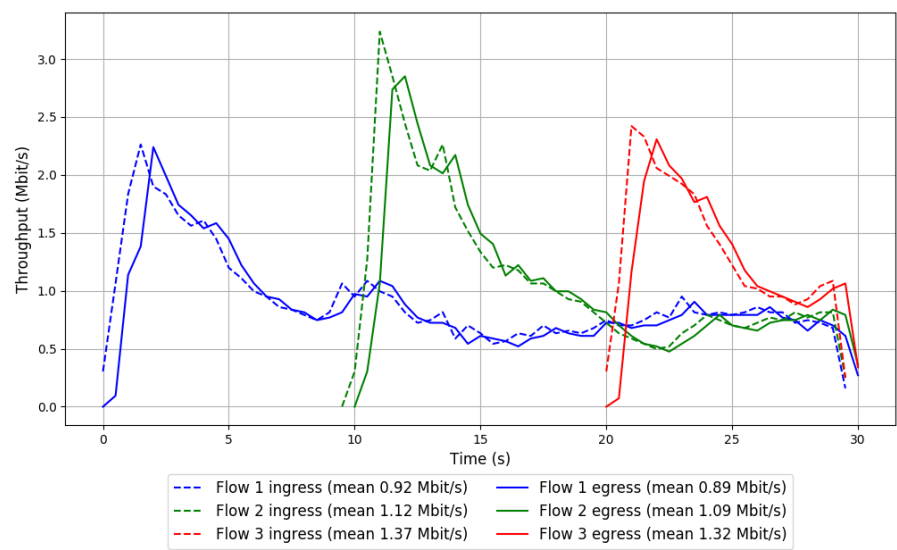


Run 3: Statistics of QUIC Cubic

Start at: 2018-12-02 05:48:33
End at: 2018-12-02 05:49:03
Local clock offset: -0.878 ms
Remote clock offset: 37.208 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 75.032 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 75.140 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 75.478 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 65.383 ms
Loss rate: 3.45%

Run 3: Report of QUIC Cubic — Data Link

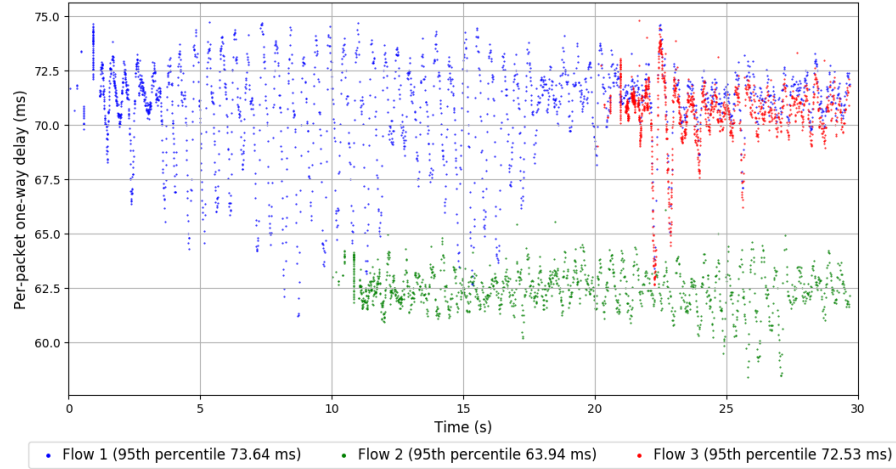
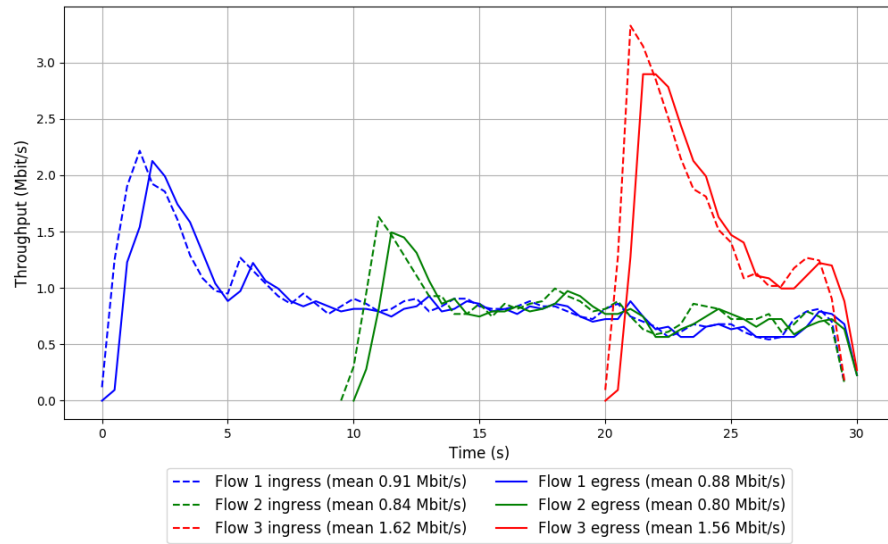


Run 4: Statistics of QUIC Cubic

Start at: 2018-12-02 06:15:27
End at: 2018-12-02 06:15:57
Local clock offset: -15.208 ms
Remote clock offset: 39.049 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 73.178 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 73.637 ms
Loss rate: 3.50%
-- Flow 2:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 63.939 ms
Loss rate: 3.87%
-- Flow 3:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 72.526 ms
Loss rate: 3.58%

Run 4: Report of QUIC Cubic — Data Link

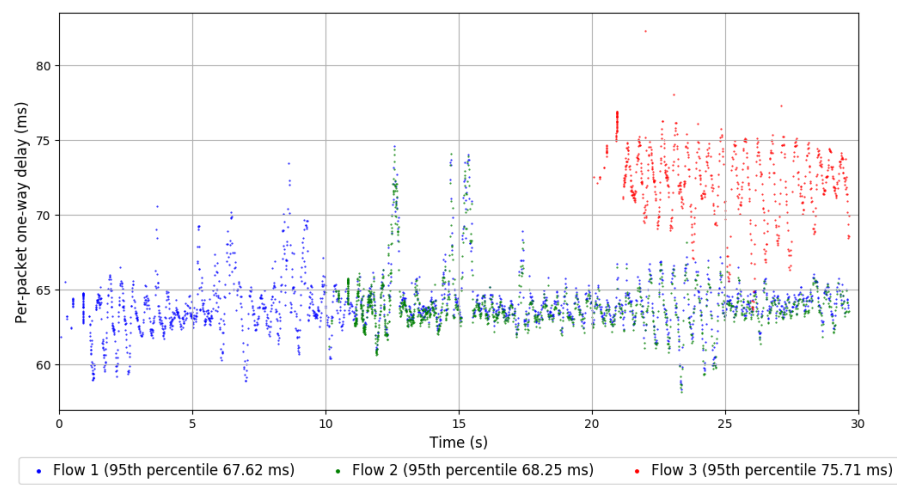
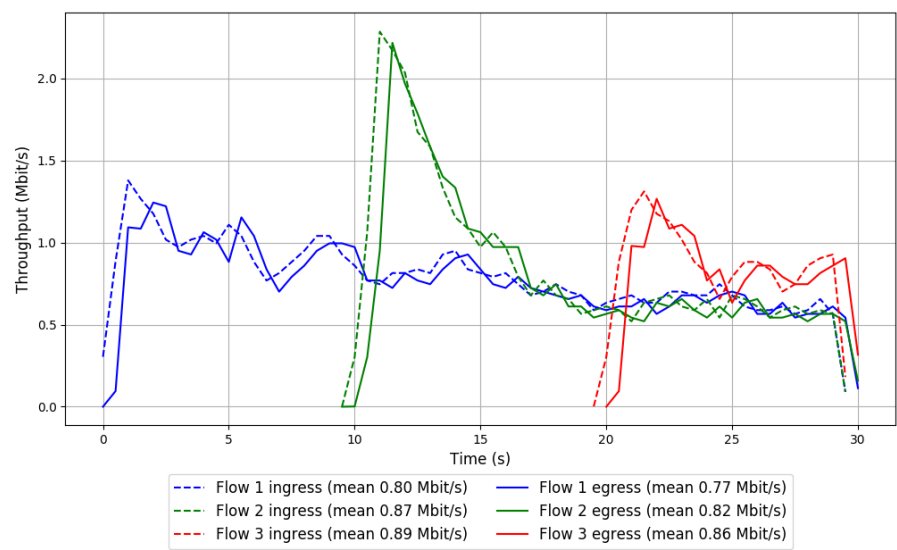


Run 5: Statistics of QUIC Cubic

Start at: 2018-12-02 06:42:37
End at: 2018-12-02 06:43:07
Local clock offset: -20.101 ms
Remote clock offset: 18.199 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 73.887 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 67.623 ms
Loss rate: 3.68%
-- Flow 2:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 68.250 ms
Loss rate: 5.32%
-- Flow 3:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 75.711 ms
Loss rate: 3.71%

Run 5: Report of QUIC Cubic — Data Link

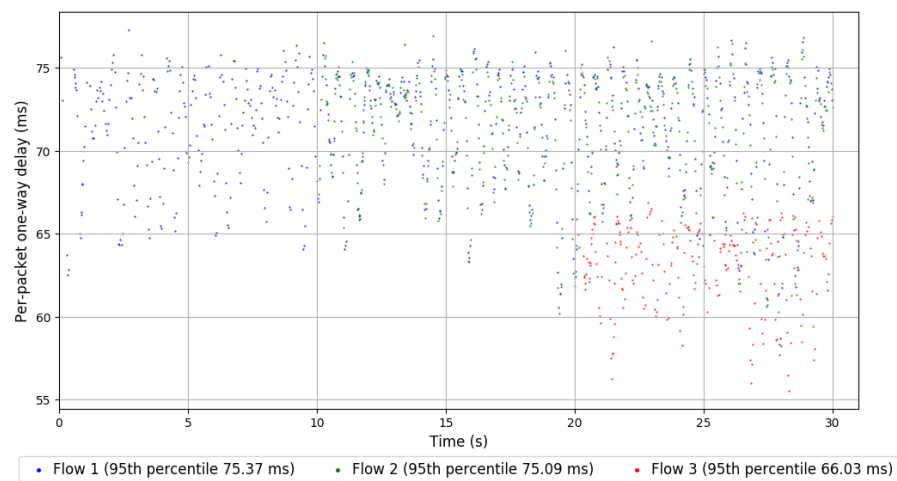
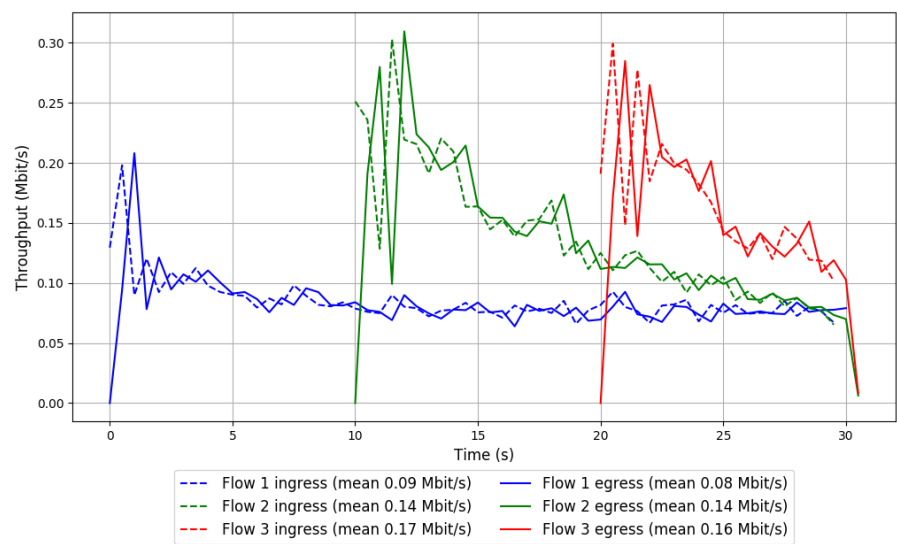


Run 1: Statistics of SCReAM

Start at: 2018-12-02 05:03:28
End at: 2018-12-02 05:03:58
Local clock offset: 2.835 ms
Remote clock offset: 25.462 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 75.122 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 75.371 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 75.086 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 66.025 ms
Loss rate: 2.46%

Run 1: Report of SReAM — Data Link

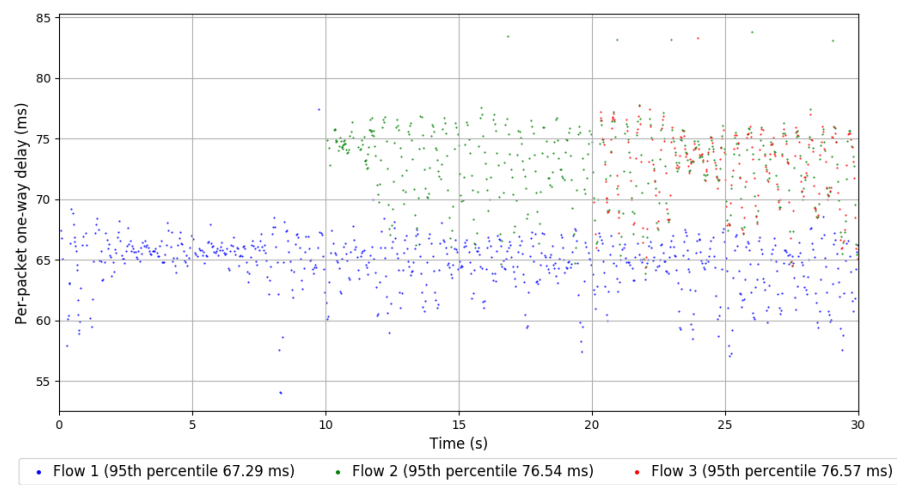
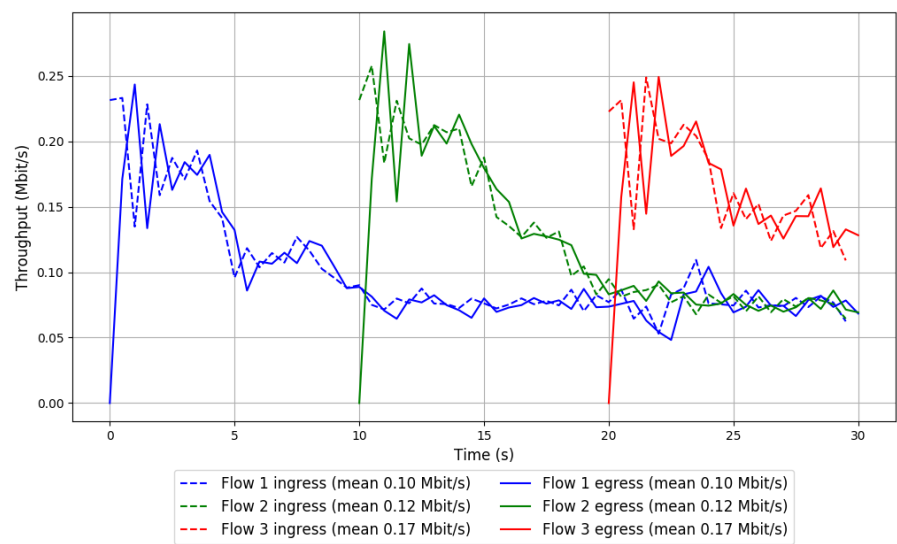


Run 2: Statistics of SCReAM

Start at: 2018-12-02 05:30:18
End at: 2018-12-02 05:30:48
Local clock offset: 0.921 ms
Remote clock offset: 23.306 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 75.979 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 67.290 ms
Loss rate: 3.32%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 76.544 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 76.566 ms
Loss rate: 1.90%

Run 2: Report of SReAM — Data Link

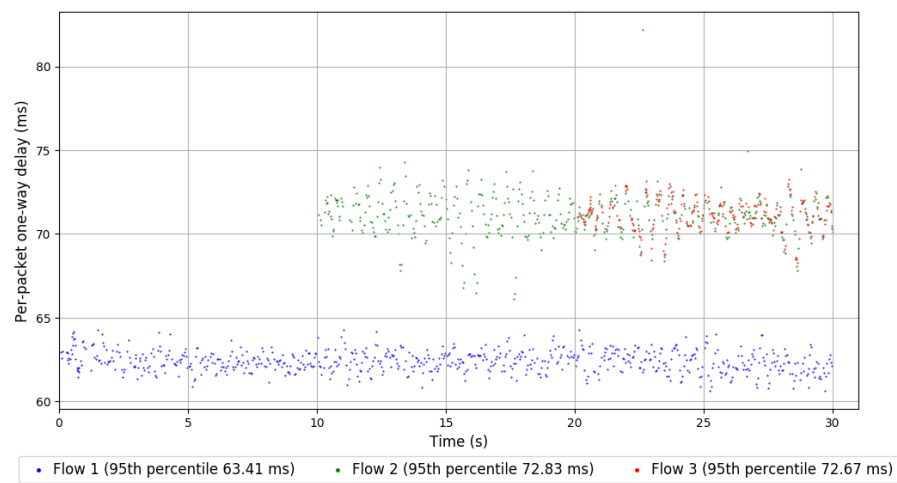
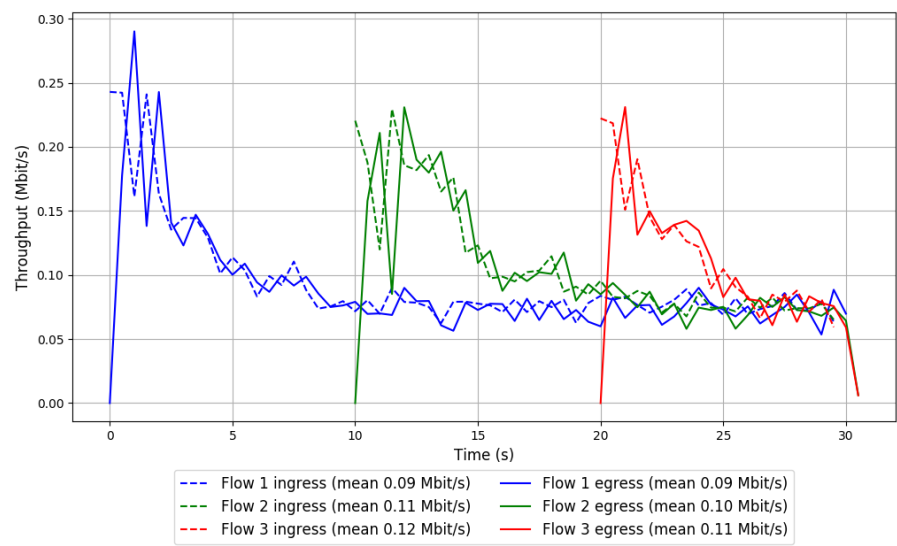


Run 3: Statistics of SCReAM

Start at: 2018-12-02 05:56:48
End at: 2018-12-02 05:57:18
Local clock offset: -8.541 ms
Remote clock offset: 37.593 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 72.398 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 63.413 ms
Loss rate: 4.97%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 72.827 ms
Loss rate: 4.20%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 72.669 ms
Loss rate: 5.88%

Run 3: Report of SReAM — Data Link

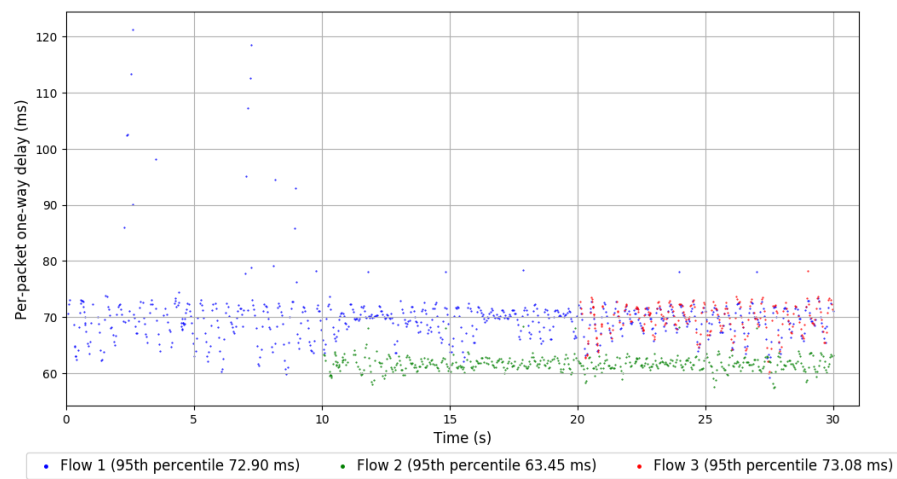
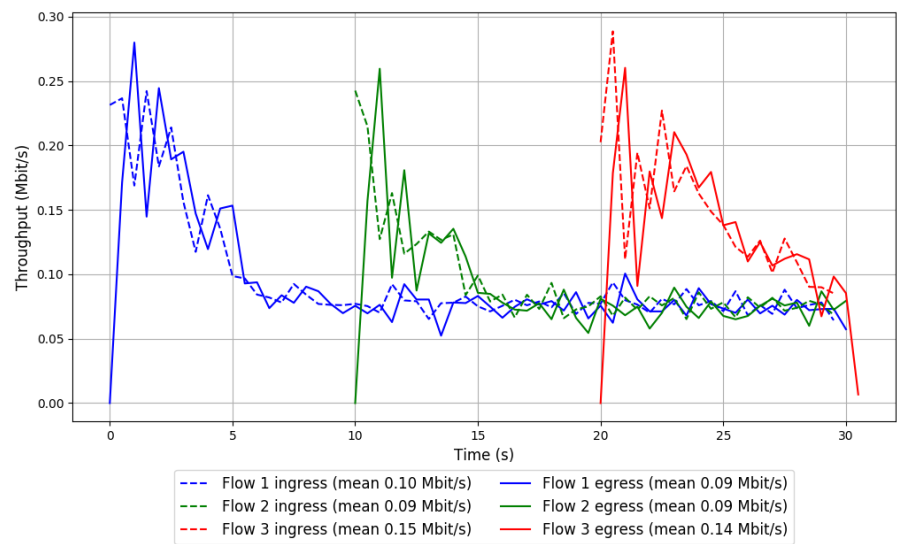


Run 4: Statistics of SCReAM

Start at: 2018-12-02 06:24:01
End at: 2018-12-02 06:24:31
Local clock offset: -16.914 ms
Remote clock offset: 39.597 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 72.698 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 72.900 ms
Loss rate: 2.92%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 63.450 ms
Loss rate: 5.30%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 73.081 ms
Loss rate: 4.01%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-12-02 06:51:20

End at: 2018-12-02 06:51:50

Local clock offset: -13.83 ms

Remote clock offset: 2.765 ms

Below is generated by plot.py at 2018-12-02 07:02:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 75.807 ms

Loss rate: 5.03%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 66.946 ms

Loss rate: 5.03%

-- Flow 2:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 76.282 ms

Loss rate: 5.25%

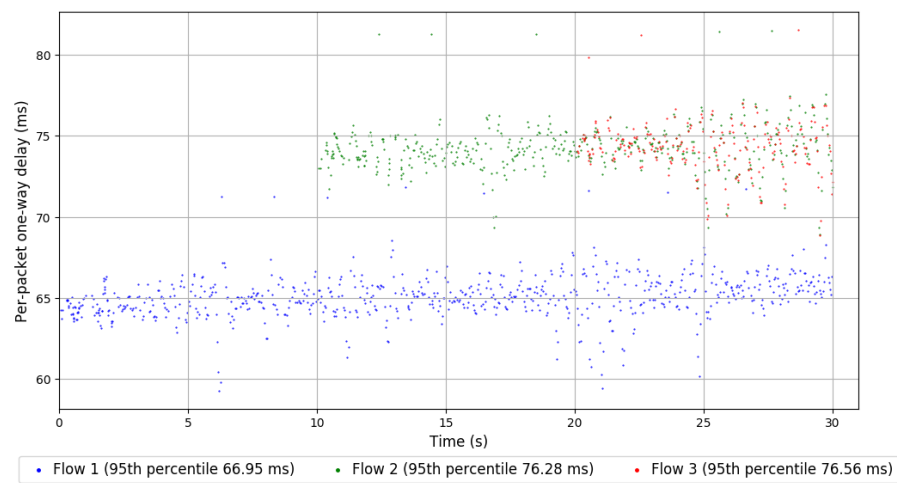
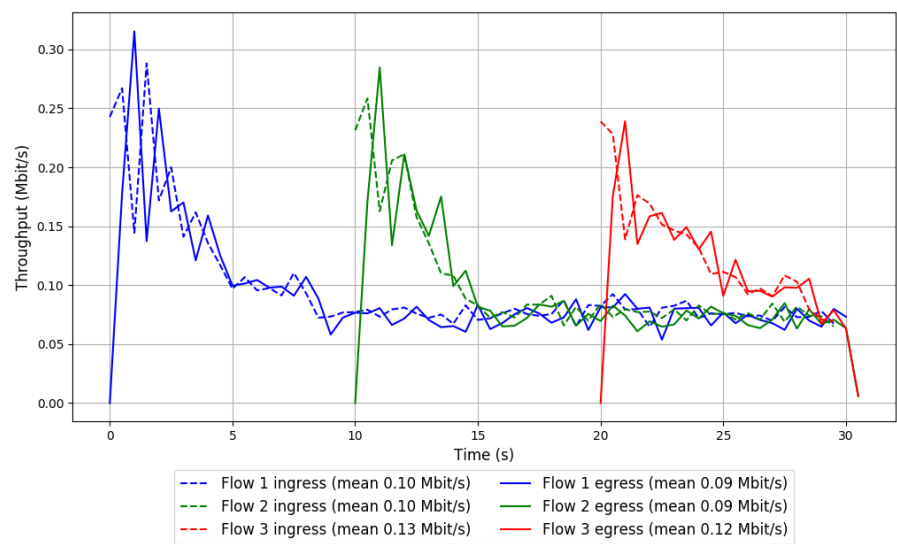
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 76.562 ms

Loss rate: 4.69%

Run 5: Report of SReAM — Data Link

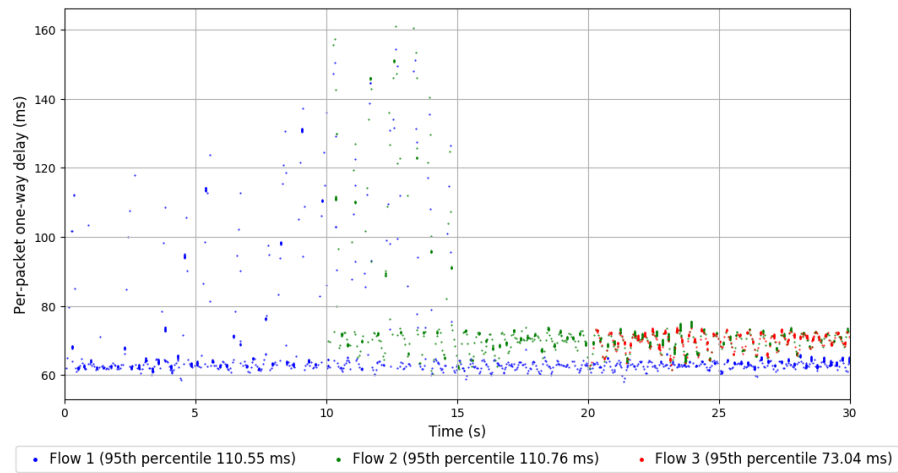
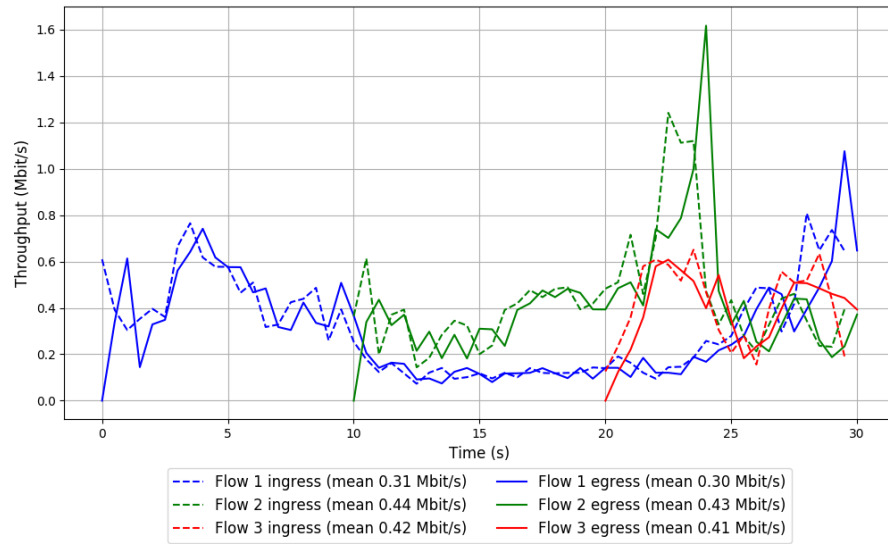


Run 1: Statistics of Sprout

Start at: 2018-12-02 05:00:28
End at: 2018-12-02 05:00:58
Local clock offset: 2.67 ms
Remote clock offset: 26.484 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 102.915 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 110.548 ms
Loss rate: 2.52%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 110.756 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 73.043 ms
Loss rate: 2.17%

Run 1: Report of Sprout — Data Link

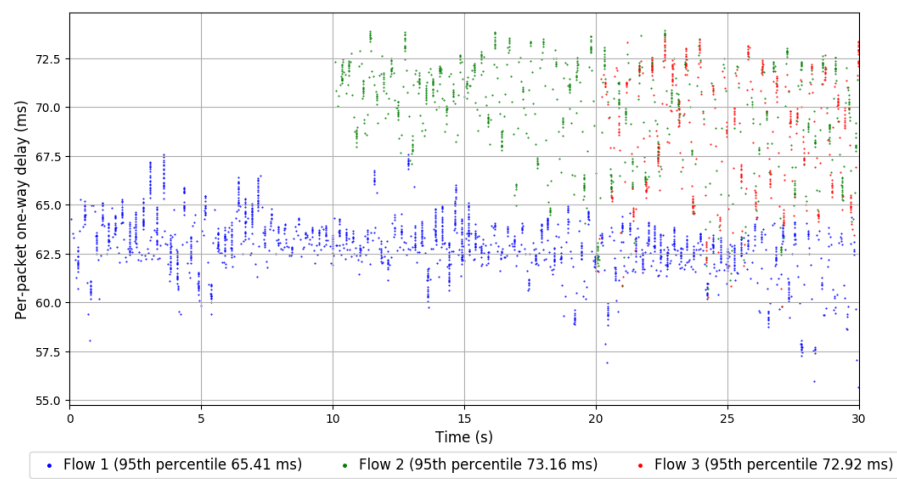
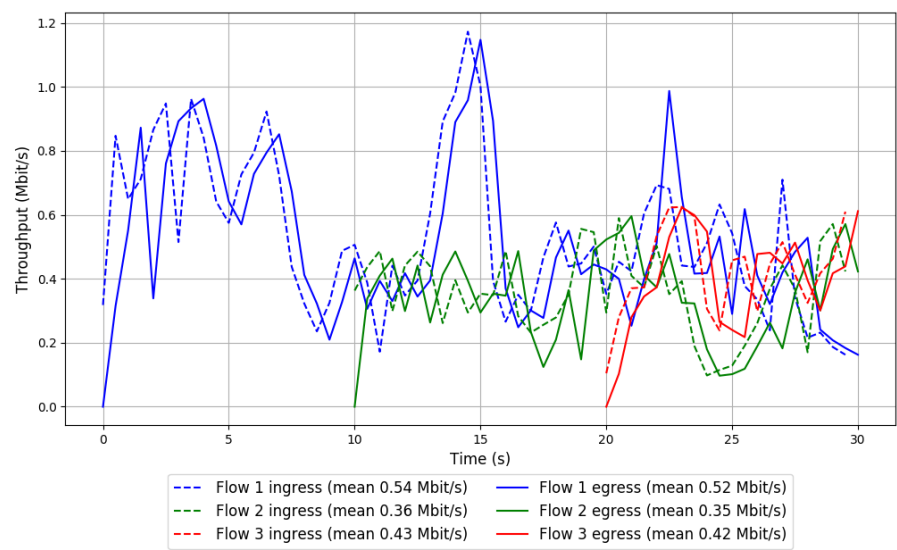


Run 2: Statistics of Sprout

Start at: 2018-12-02 05:27:13
End at: 2018-12-02 05:27:43
Local clock offset: 1.212 ms
Remote clock offset: 13.391 ms

```
# Below is generated by plot.py at 2018-12-02 07:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 72.448 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 65.412 ms
Loss rate: 3.14%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 73.164 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 72.915 ms
Loss rate: 3.02%
```

Run 2: Report of Sprout — Data Link

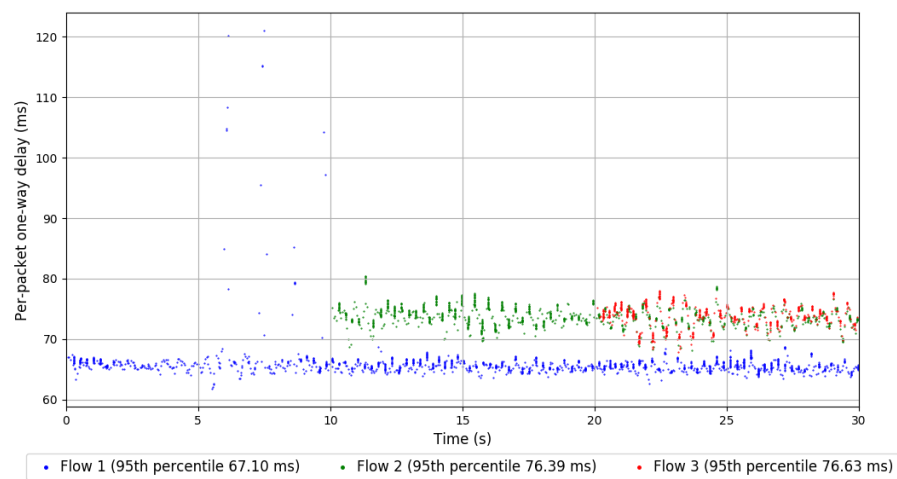
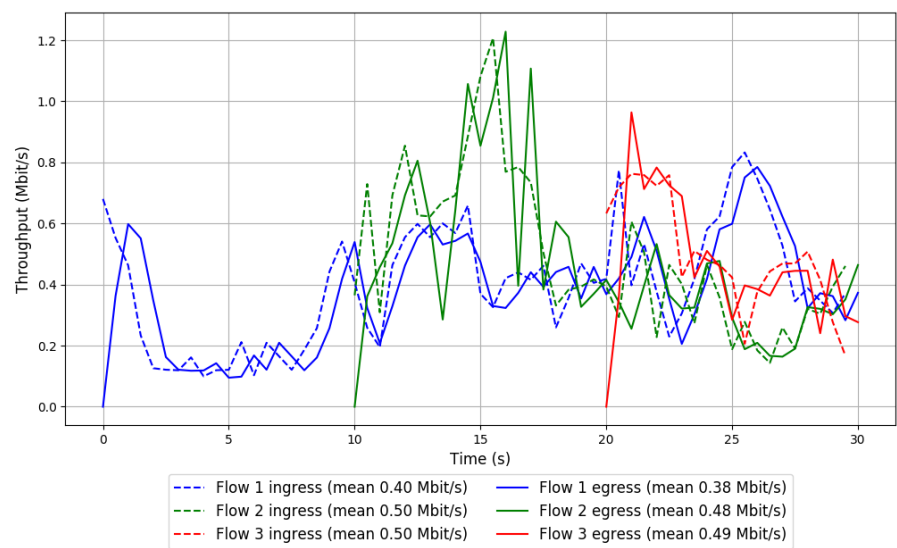


Run 3: Statistics of Sprout

Start at: 2018-12-02 05:53:59
End at: 2018-12-02 05:54:29
Local clock offset: -6.528 ms
Remote clock offset: 40.093 ms

```
# Below is generated by plot.py at 2018-12-02 07:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 76.044 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 67.102 ms
Loss rate: 3.15%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 76.395 ms
Loss rate: 3.11%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 76.634 ms
Loss rate: 3.05%
```

Run 3: Report of Sprout — Data Link

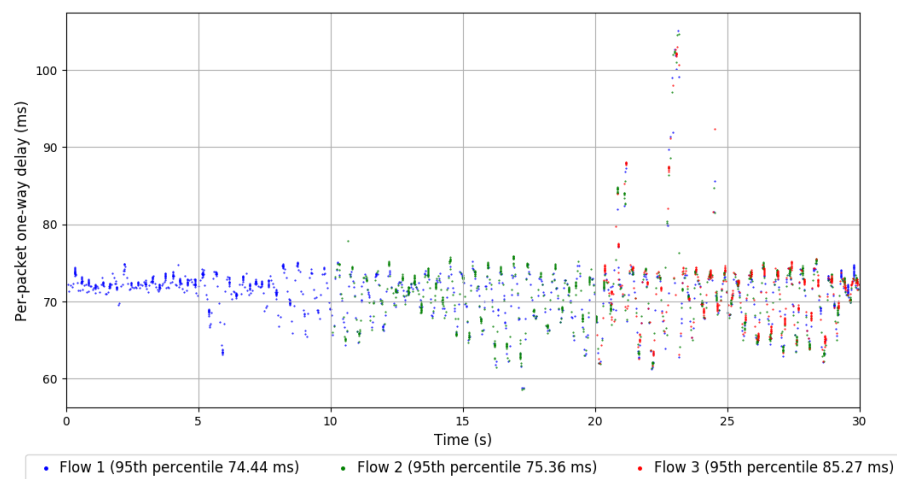
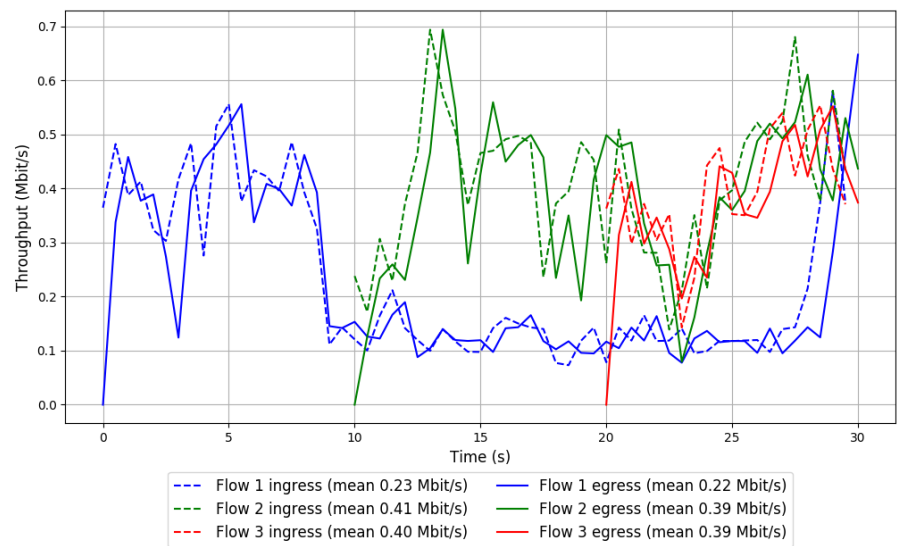


Run 4: Statistics of Sprout

Start at: 2018-12-02 06:21:09
End at: 2018-12-02 06:21:39
Local clock offset: -16.405 ms
Remote clock offset: 40.235 ms

```
# Below is generated by plot.py at 2018-12-02 07:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 75.007 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 74.437 ms
Loss rate: 4.07%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 75.360 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 85.270 ms
Loss rate: 3.03%
```

Run 4: Report of Sprout — Data Link

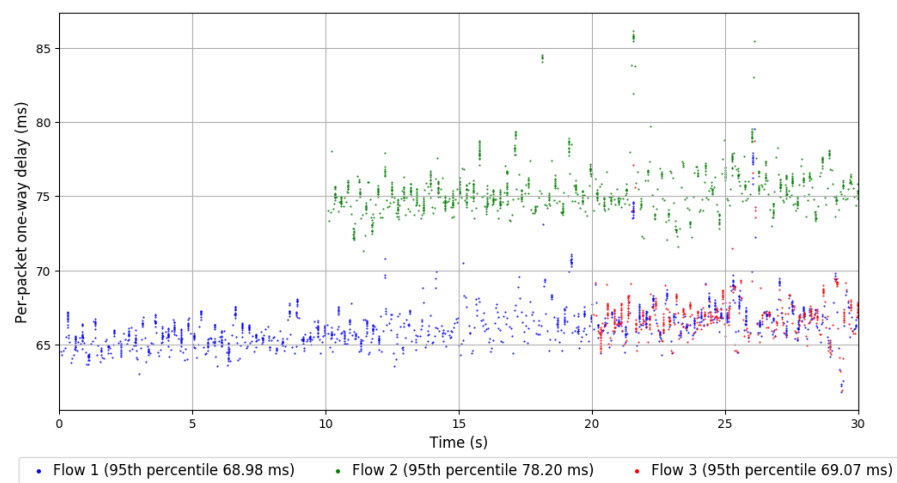
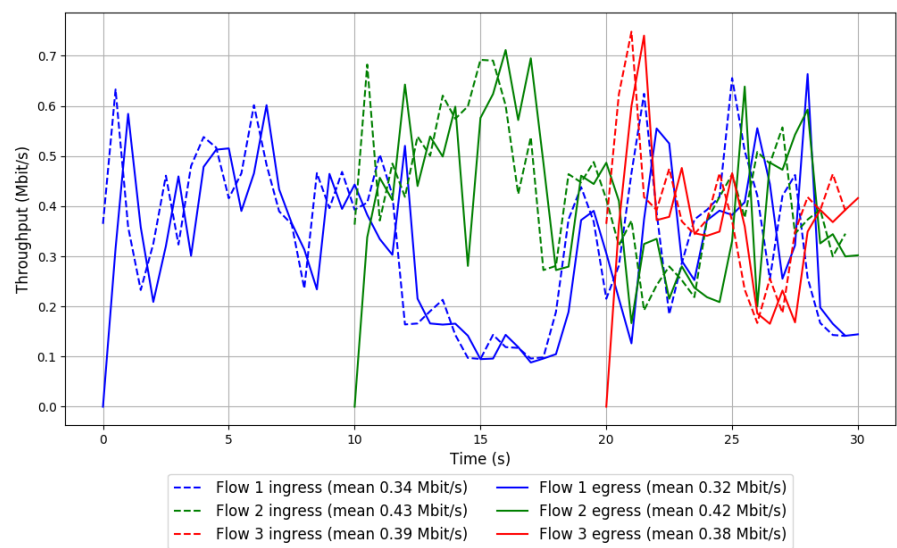


Run 5: Statistics of Sprout

Start at: 2018-12-02 06:48:19
End at: 2018-12-02 06:48:49
Local clock offset: -20.572 ms
Remote clock offset: 7.263 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 76.910 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 68.977 ms
Loss rate: 4.84%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 78.200 ms
Loss rate: 3.10%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 69.074 ms
Loss rate: 4.34%

Run 5: Report of Sprout — Data Link

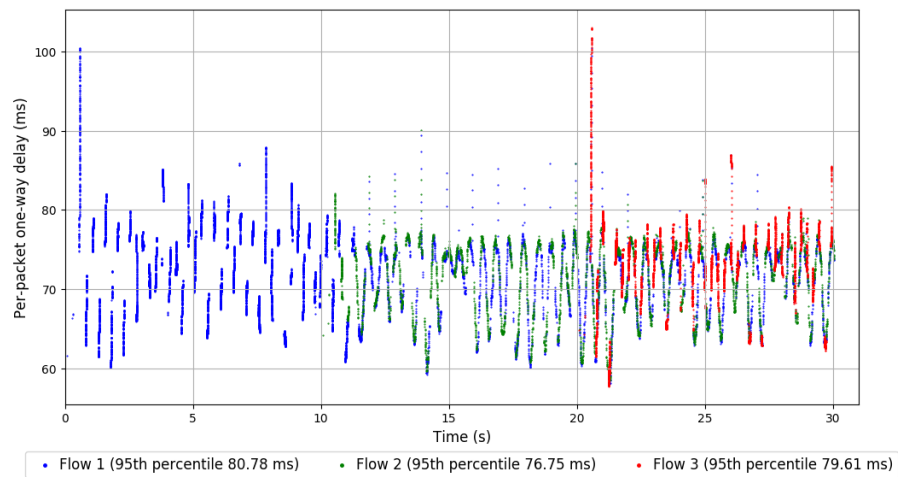
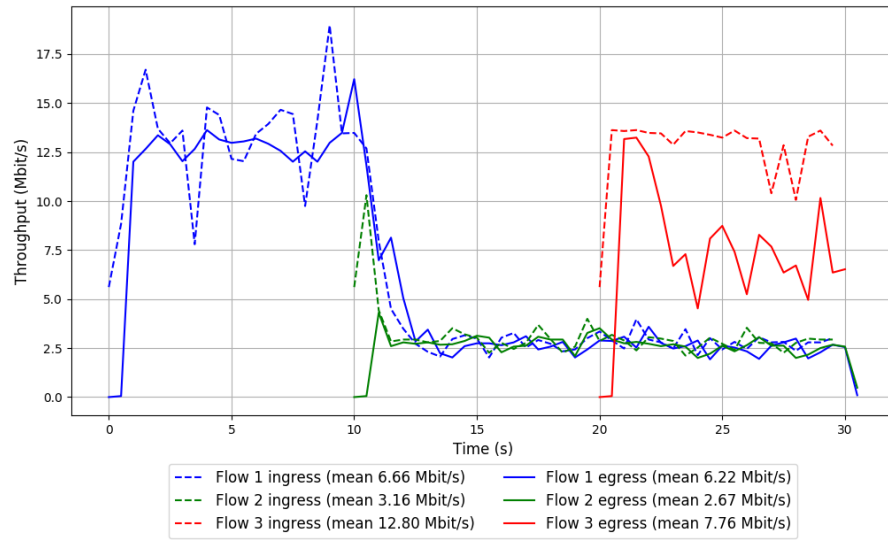


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-12-02 04:48:03
End at: 2018-12-02 04:48:33
Local clock offset: 2.98 ms
Remote clock offset: 43.489 ms

# Below is generated by plot.py at 2018-12-02 07:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 79.833 ms
Loss rate: 18.69%
-- Flow 1:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 80.778 ms
Loss rate: 6.63%
-- Flow 2:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 76.749 ms
Loss rate: 15.51%
-- Flow 3:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 79.607 ms
Loss rate: 39.31%
```

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

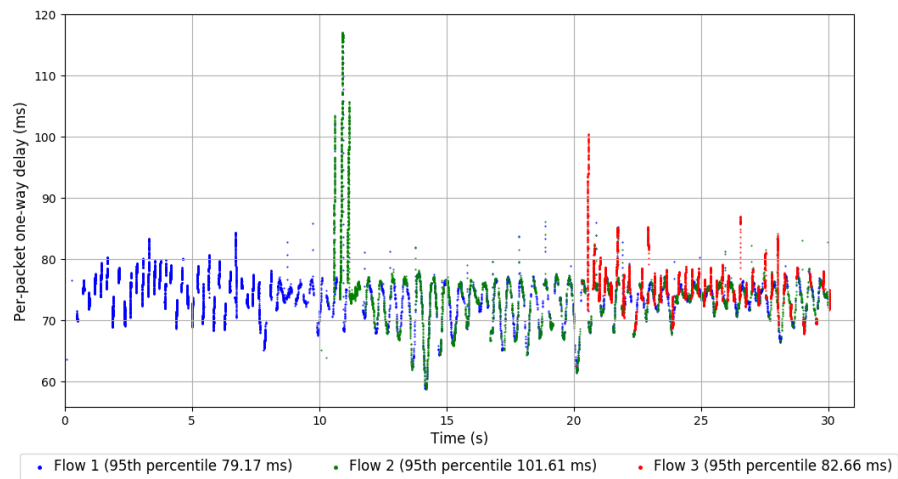
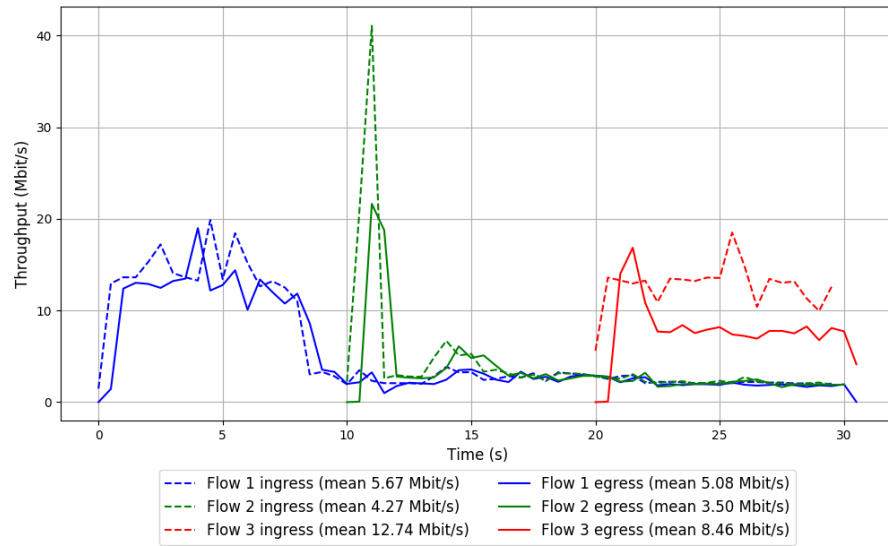


Run 2: Statistics of TaoVA-100x

Start at: 2018-12-02 05:14:53
End at: 2018-12-02 05:15:23
Local clock offset: 3.273 ms
Remote clock offset: 19.685 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 83.907 ms
Loss rate: 19.85%
-- Flow 1:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 79.167 ms
Loss rate: 10.49%
-- Flow 2:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 101.614 ms
Loss rate: 17.98%
-- Flow 3:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 82.663 ms
Loss rate: 33.61%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-12-02 05:41:43

End at: 2018-12-02 05:42:13

Local clock offset: 0.104 ms

Remote clock offset: 32.31 ms

Below is generated by plot.py at 2018-12-02 07:02:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 78.102 ms

Loss rate: 21.35%

-- Flow 1:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 81.188 ms

Loss rate: 18.47%

-- Flow 2:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 77.671 ms

Loss rate: 29.10%

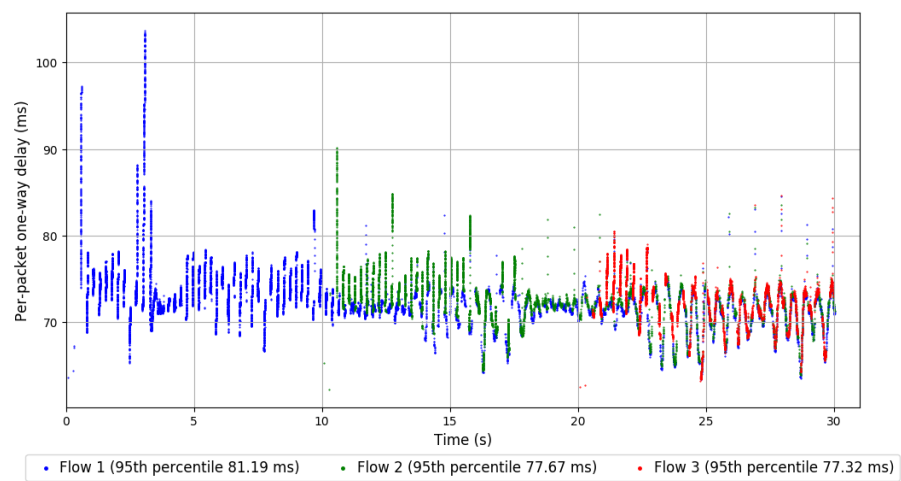
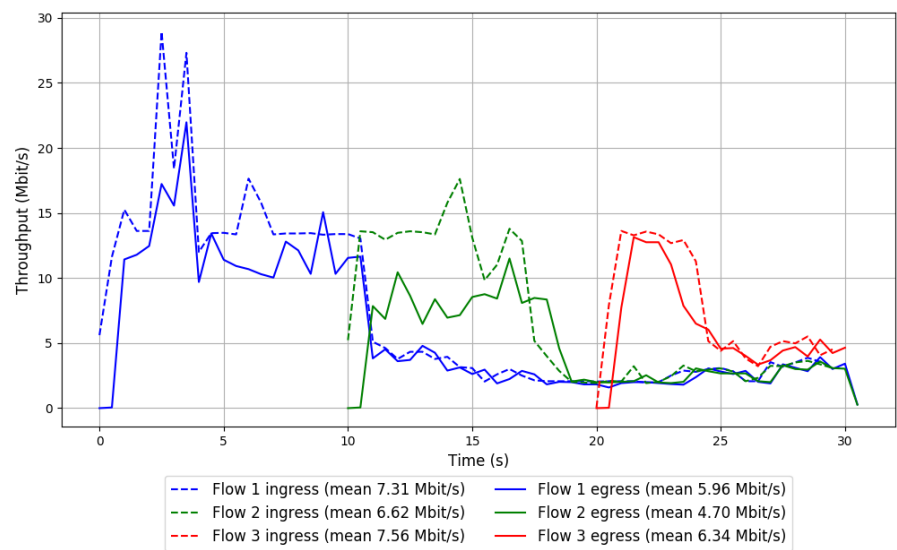
-- Flow 3:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 77.317 ms

Loss rate: 16.11%

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

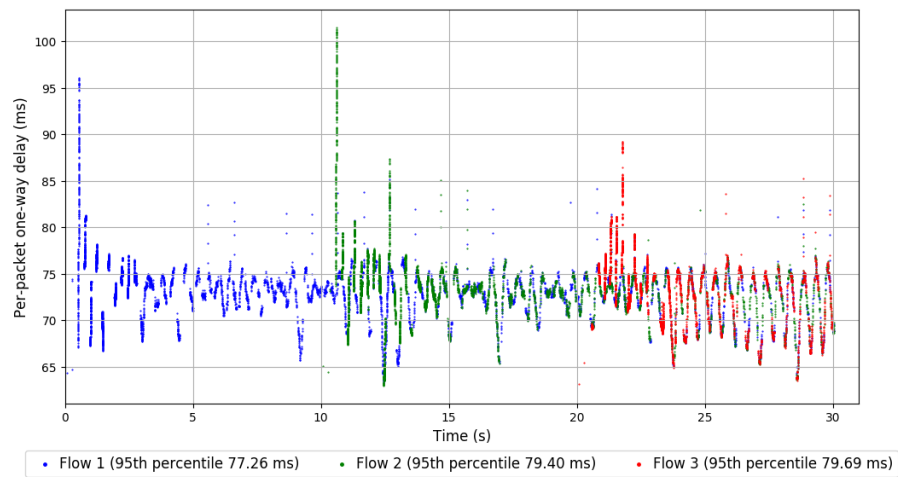
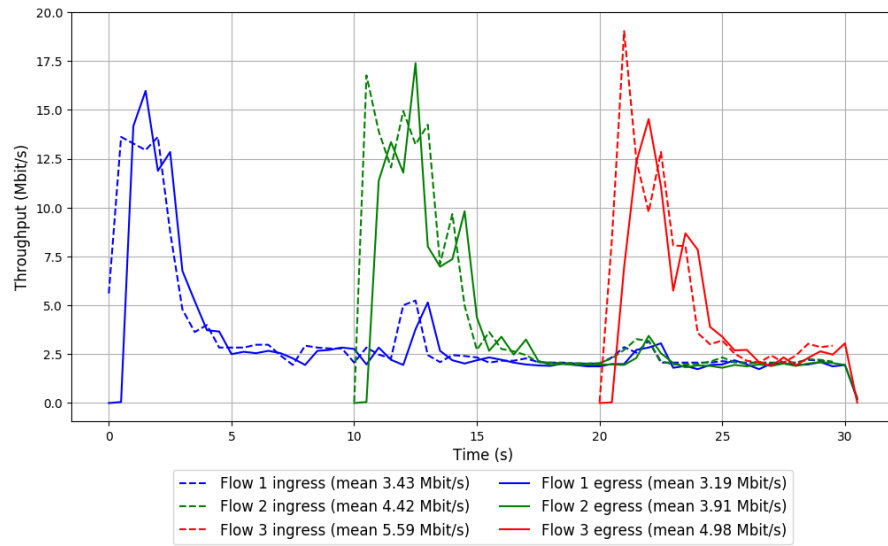


Run 4: Statistics of TaoVA-100x

Start at: 2018-12-02 06:08:28
End at: 2018-12-02 06:08:58
Local clock offset: -13.396 ms
Remote clock offset: 40.443 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 78.949 ms
Loss rate: 9.44%
-- Flow 1:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 77.256 ms
Loss rate: 6.80%
-- Flow 2:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 79.402 ms
Loss rate: 11.55%
-- Flow 3:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 79.695 ms
Loss rate: 10.98%

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

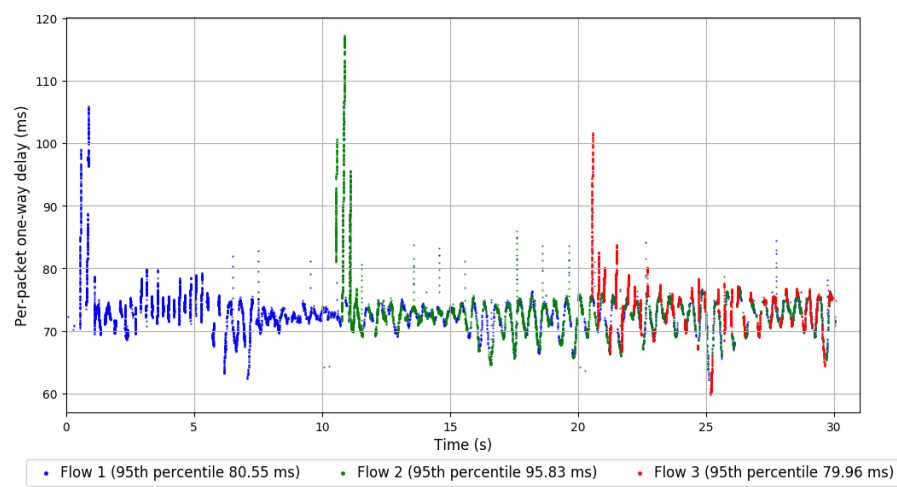
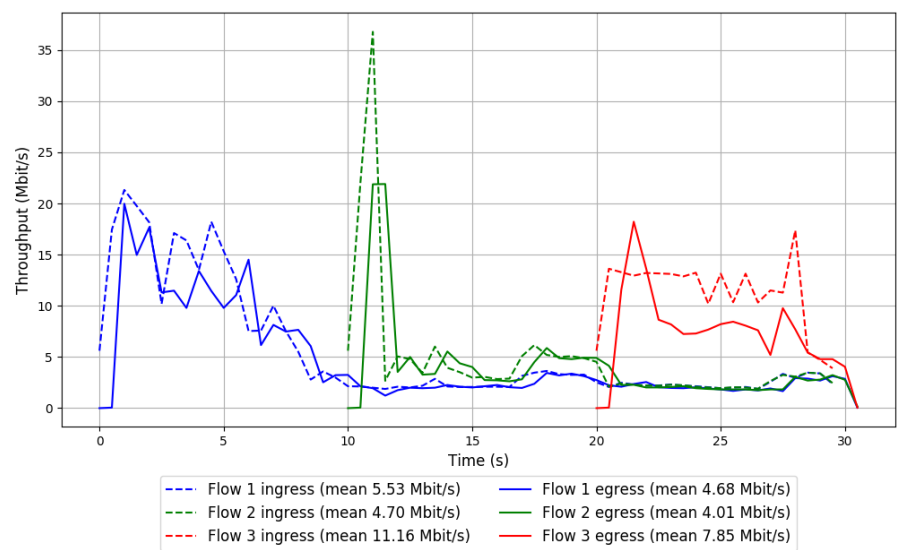


Run 5: Statistics of TaoVA-100x

Start at: 2018-12-02 06:35:45
End at: 2018-12-02 06:36:15
Local clock offset: -18.99 ms
Remote clock offset: 41.543 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.96 Mbit/s
95th percentile per-packet one-way delay: 86.236 ms
Loss rate: 19.48%
-- Flow 1:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 80.554 ms
Loss rate: 15.43%
-- Flow 2:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 95.835 ms
Loss rate: 14.64%
-- Flow 3:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 79.963 ms
Loss rate: 29.59%

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

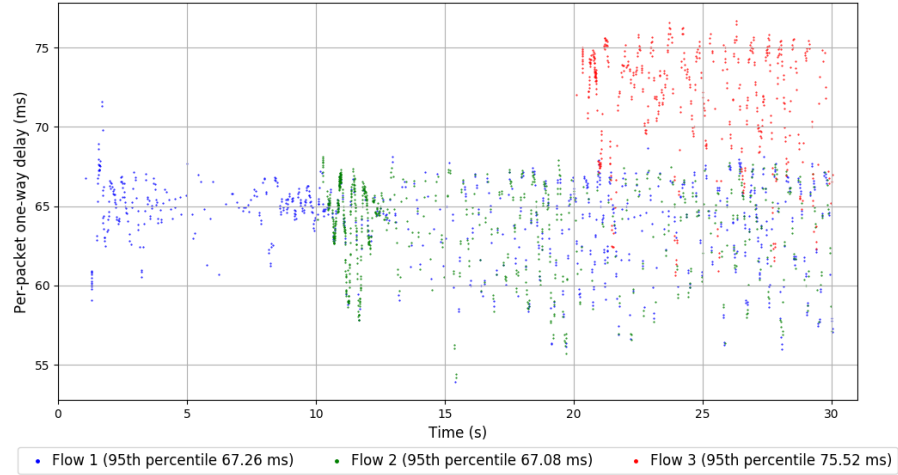
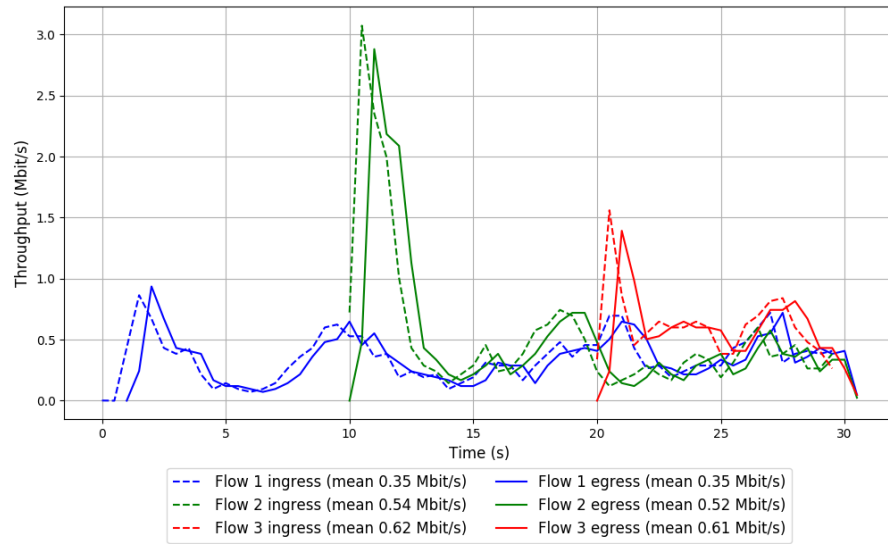


Run 1: Statistics of TCP Vegas

Start at: 2018-12-02 04:49:28
End at: 2018-12-02 04:49:58
Local clock offset: 2.753 ms
Remote clock offset: 42.971 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 74.621 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 67.263 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 67.085 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 75.516 ms
Loss rate: 1.16%

Run 1: Report of TCP Vegas — Data Link

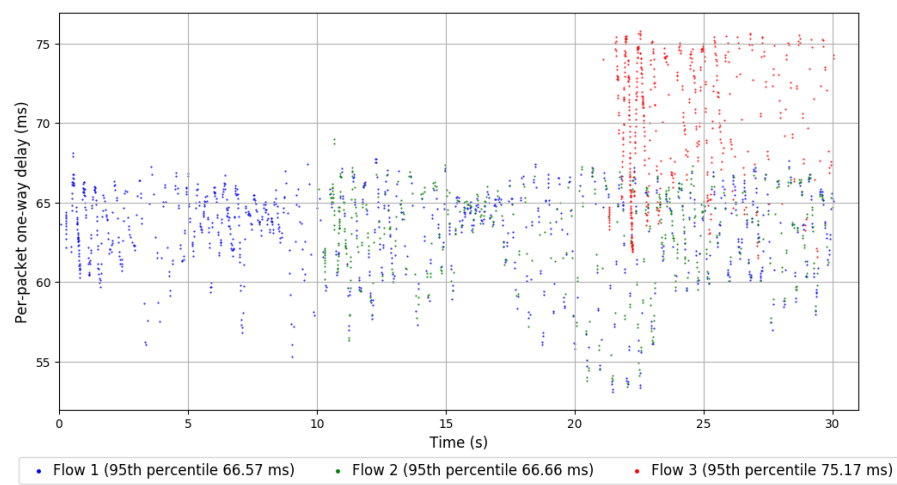
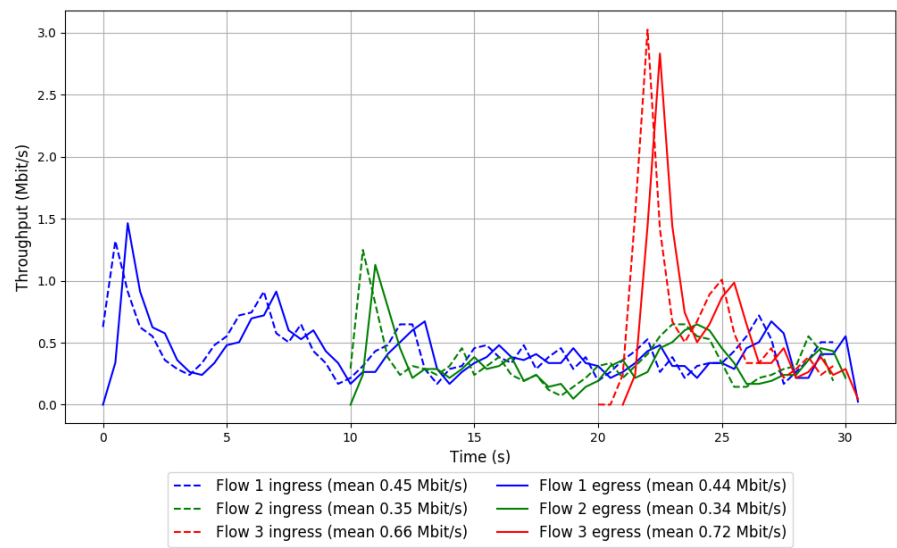


Run 2: Statistics of TCP Vegas

Start at: 2018-12-02 05:16:16
End at: 2018-12-02 05:16:47
Local clock offset: 3.458 ms
Remote clock offset: 18.177 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 74.153 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.573 ms
Loss rate: 1.89%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 66.658 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 75.174 ms
Loss rate: 1.48%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-12-02 05:43:05

End at: 2018-12-02 05:43:35

Local clock offset: 0.191 ms

Remote clock offset: 32.75 ms

Below is generated by plot.py at 2018-12-02 07:02:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 72.871 ms

Loss rate: 3.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.512 ms

Loss rate: 5.44%

-- Flow 2:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 73.260 ms

Loss rate: 2.04%

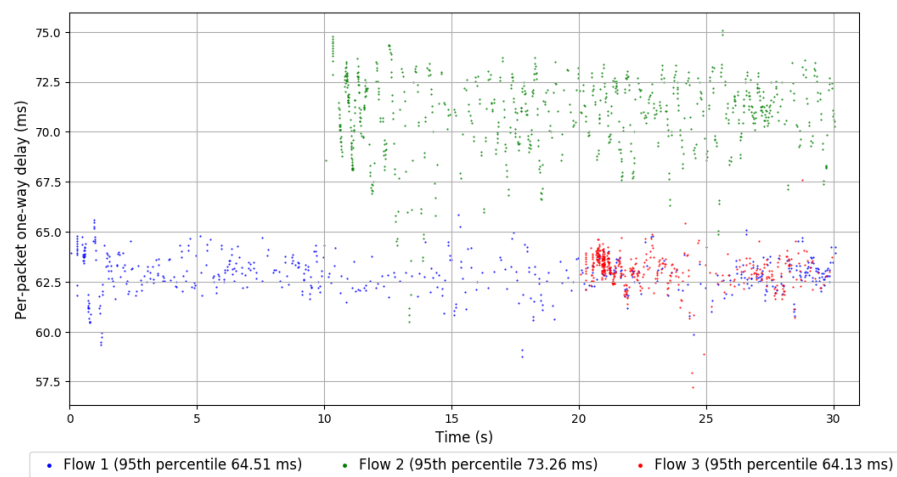
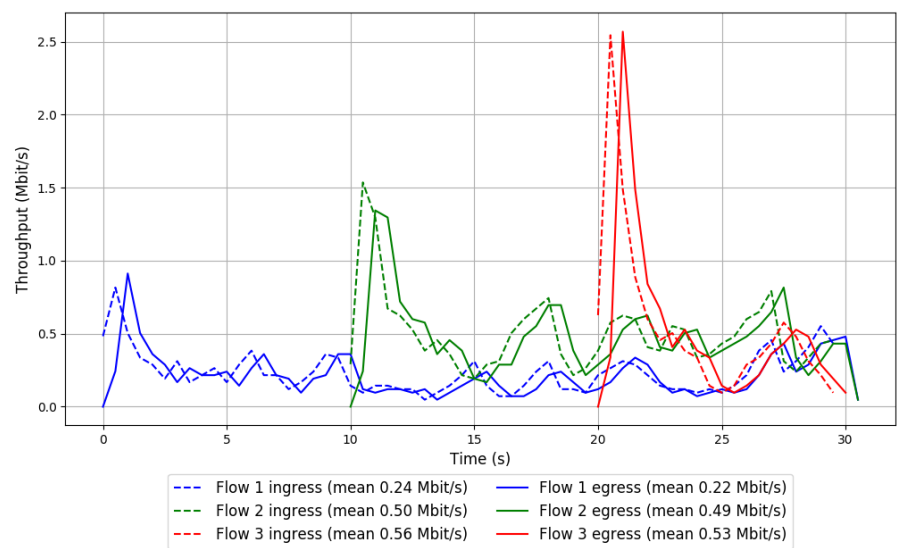
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 64.132 ms

Loss rate: 3.73%

Run 3: Report of TCP Vegas — Data Link

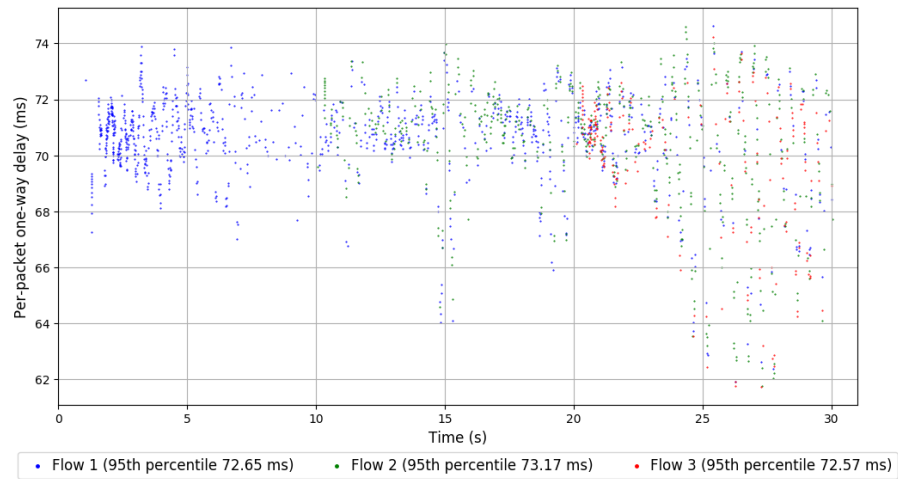
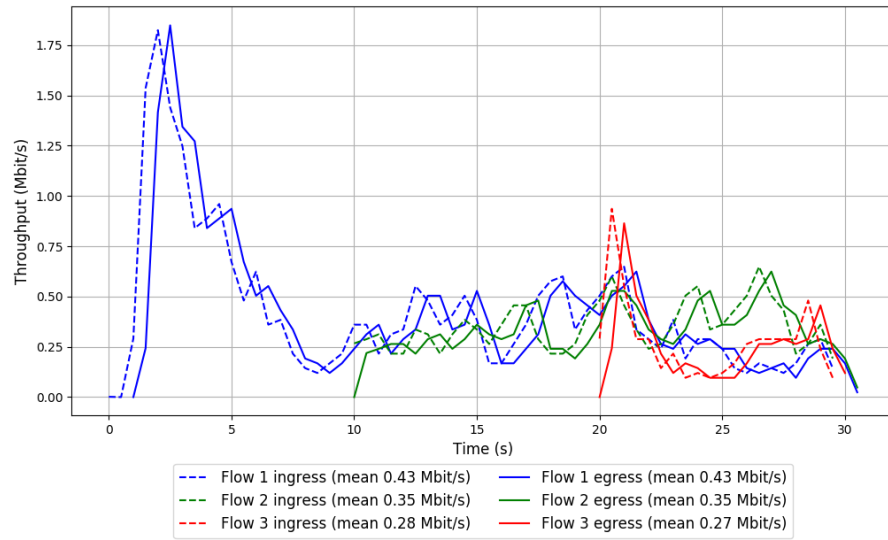


Run 4: Statistics of TCP Vegas

Start at: 2018-12-02 06:09:53
End at: 2018-12-02 06:10:23
Local clock offset: -13.9 ms
Remote clock offset: 37.869 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 72.829 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 72.653 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 73.168 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 72.568 ms
Loss rate: 4.76%

Run 4: Report of TCP Vegas — Data Link

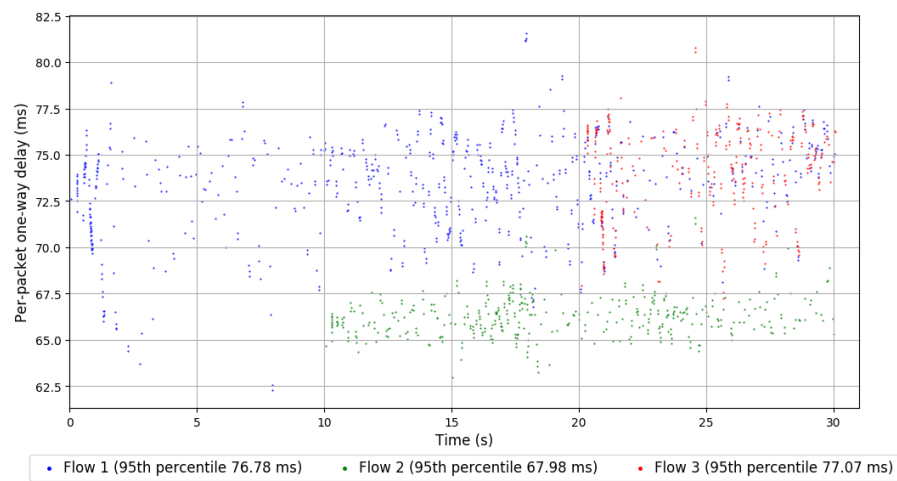
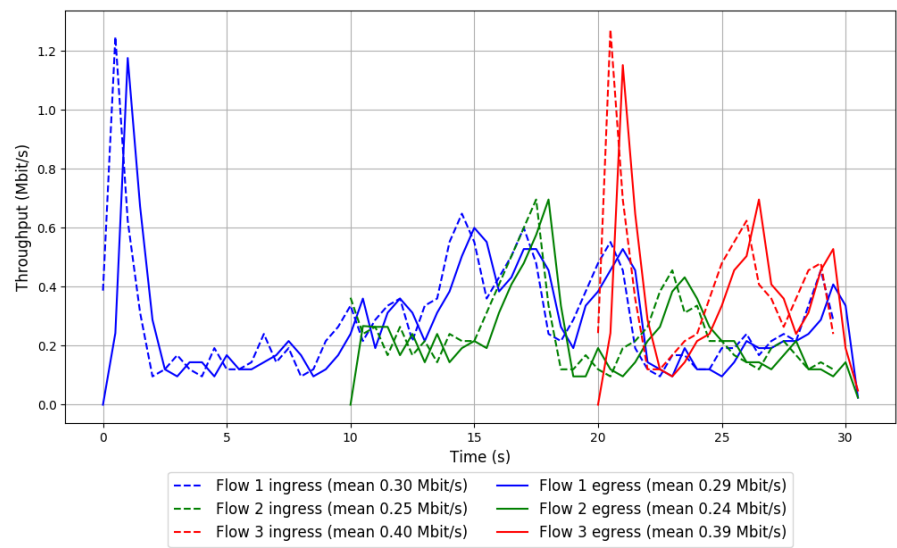


Run 5: Statistics of TCP Vegas

Start at: 2018-12-02 06:37:10
End at: 2018-12-02 06:37:40
Local clock offset: -19.014 ms
Remote clock offset: 36.66 ms

Below is generated by plot.py at 2018-12-02 07:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 76.674 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 76.781 ms
Loss rate: 3.52%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 67.979 ms
Loss rate: 4.34%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 77.072 ms
Loss rate: 4.19%

Run 5: Report of TCP Vegas — Data Link

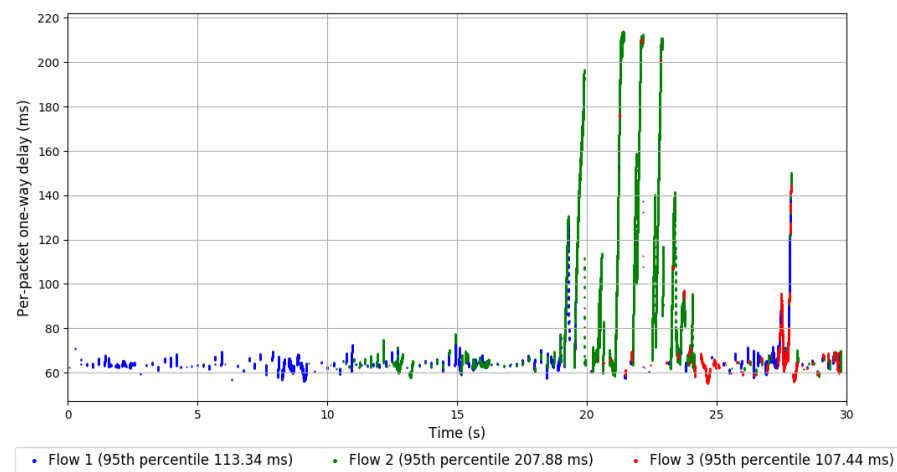
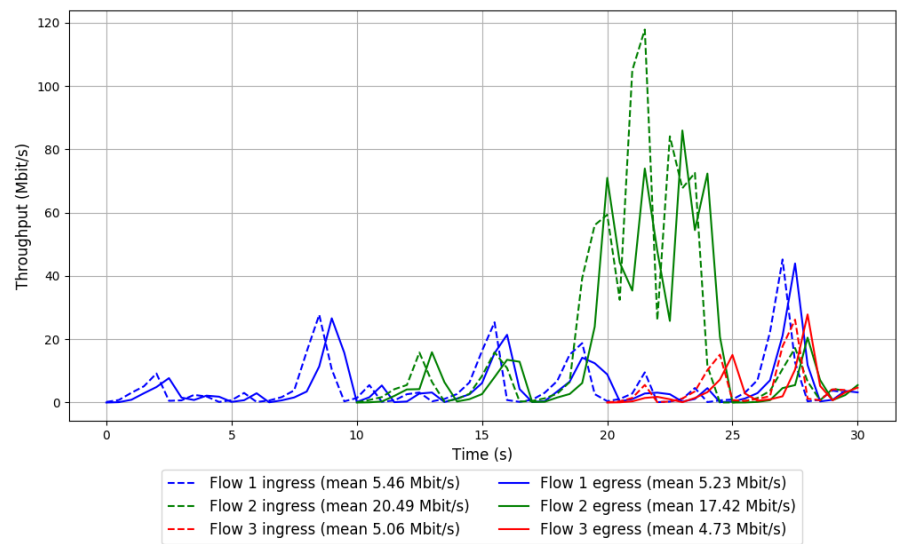


Run 1: Statistics of Verus

Start at: 2018-12-02 04:56:12
End at: 2018-12-02 04:56:42
Local clock offset: 2.851 ms
Remote clock offset: 33.784 ms

Below is generated by plot.py at 2018-12-02 07:02:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.27 Mbit/s
95th percentile per-packet one-way delay: 200.947 ms
Loss rate: 11.41%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 113.338 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 17.42 Mbit/s
95th percentile per-packet one-way delay: 207.881 ms
Loss rate: 14.97%
-- Flow 3:
Average throughput: 4.73 Mbit/s
95th percentile per-packet one-way delay: 107.441 ms
Loss rate: 6.39%

Run 1: Report of Verus — Data Link

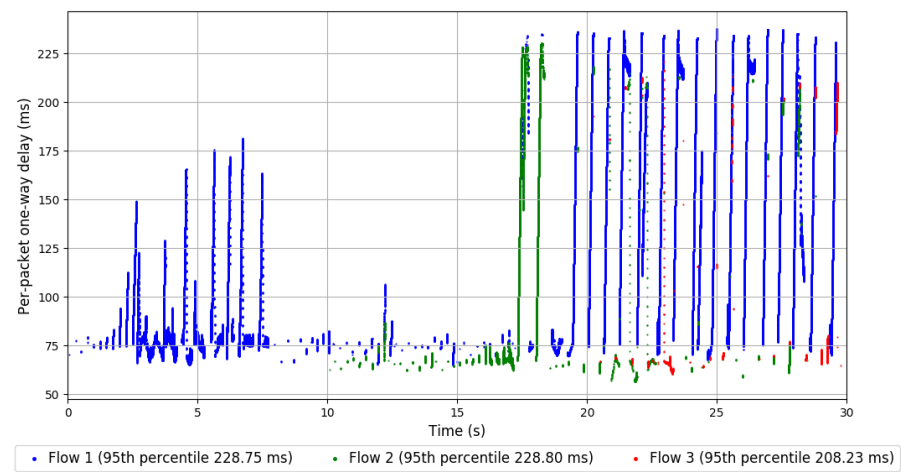
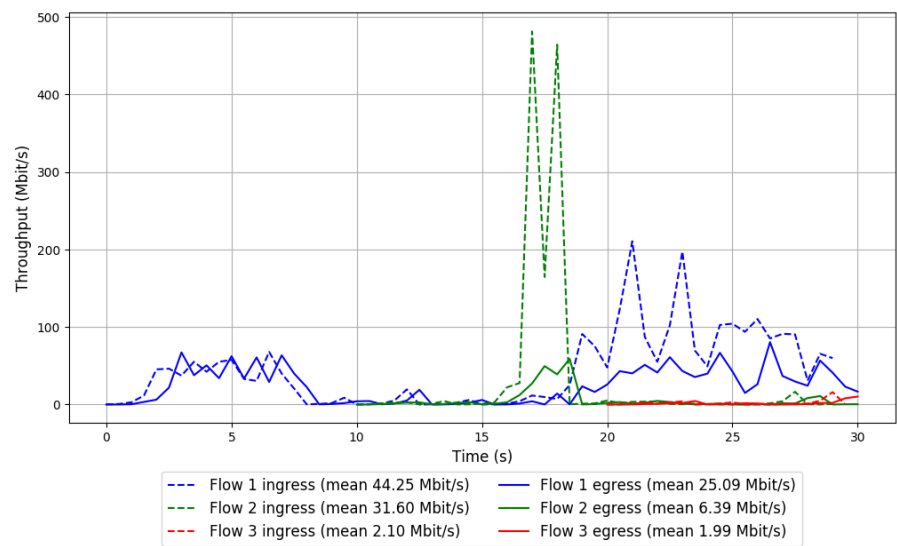


Run 2: Statistics of Verus

Start at: 2018-12-02 05:23:00
End at: 2018-12-02 05:23:30
Local clock offset: 1.894 ms
Remote clock offset: 18.513 ms

Below is generated by plot.py at 2018-12-02 07:02:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.77 Mbit/s
95th percentile per-packet one-way delay: 228.529 ms
Loss rate: 54.23%
-- Flow 1:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 228.751 ms
Loss rate: 42.99%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 228.798 ms
Loss rate: 79.63%
-- Flow 3:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 208.233 ms
Loss rate: 6.20%

Run 2: Report of Verus — Data Link

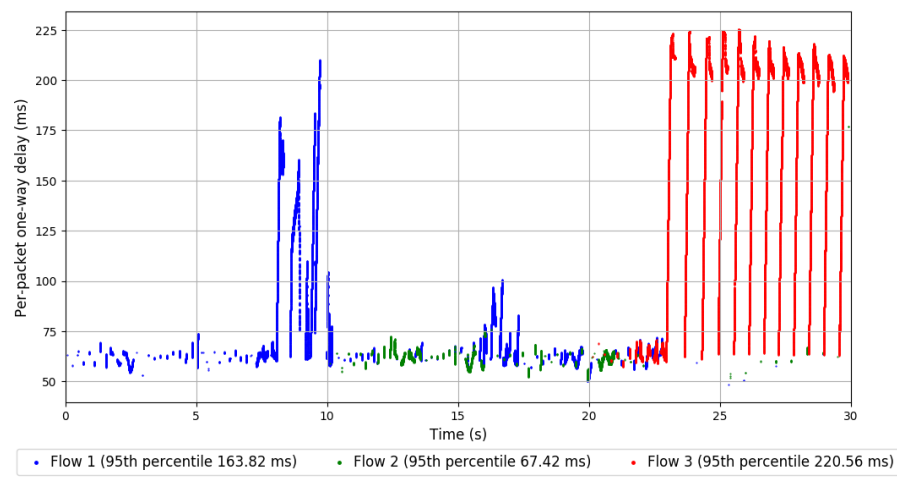
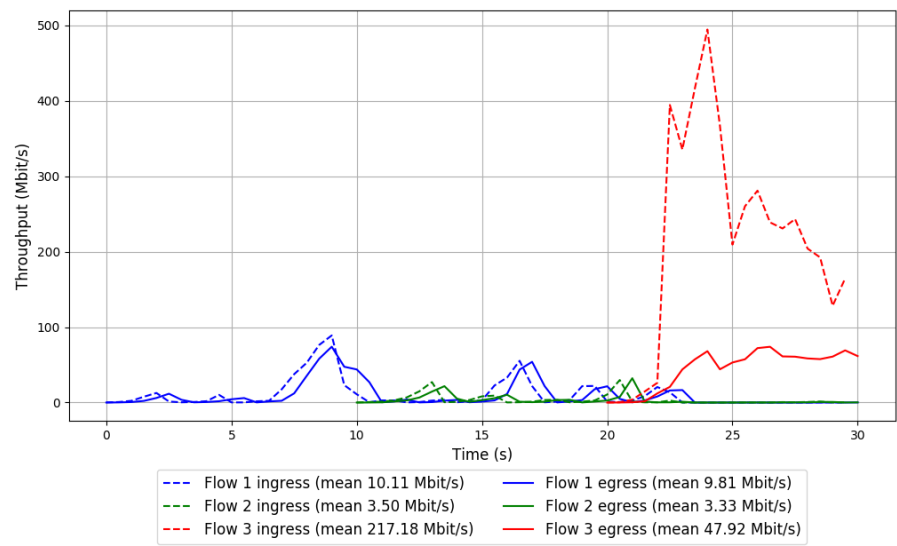


Run 3: Statistics of Verus

Start at: 2018-12-02 05:49:52
End at: 2018-12-02 05:50:22
Local clock offset: -2.222 ms
Remote clock offset: 36.443 ms

Below is generated by plot.py at 2018-12-02 07:02:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.59 Mbit/s
95th percentile per-packet one-way delay: 217.431 ms
Loss rate: 66.65%
-- Flow 1:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 163.821 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 67.424 ms
Loss rate: 4.09%
-- Flow 3:
Average throughput: 47.92 Mbit/s
95th percentile per-packet one-way delay: 220.556 ms
Loss rate: 77.78%

Run 3: Report of Verus — Data Link

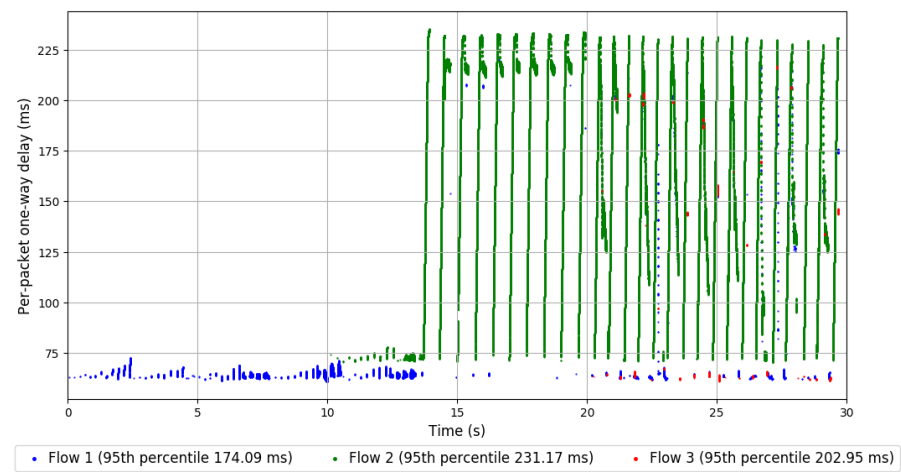
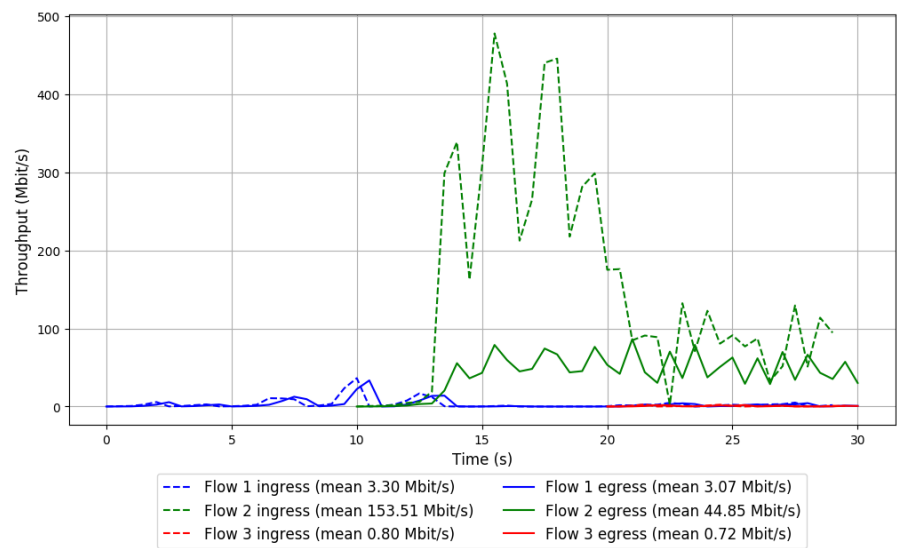


Run 4: Statistics of Verus

Start at: 2018-12-02 06:16:47
End at: 2018-12-02 06:17:17
Local clock offset: -15.451 ms
Remote clock offset: 39.344 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 231.072 ms
Loss rate: 68.37%
-- Flow 1:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 174.094 ms
Loss rate: 6.47%
-- Flow 2:
Average throughput: 44.85 Mbit/s
95th percentile per-packet one-way delay: 231.174 ms
Loss rate: 70.55%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 202.947 ms
Loss rate: 9.67%

Run 4: Report of Verus — Data Link

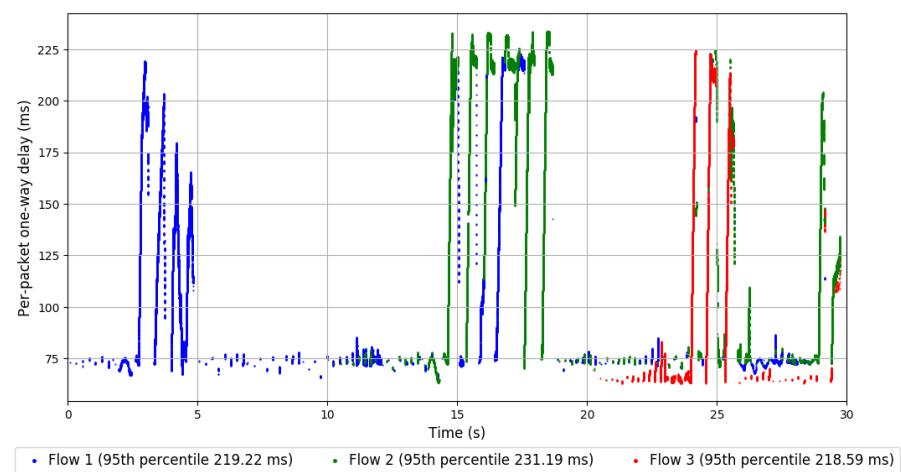
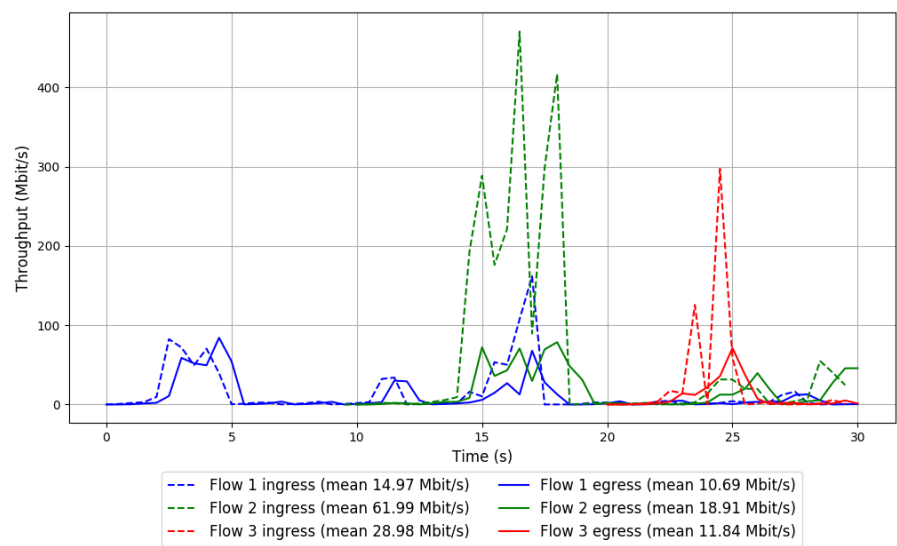


Run 5: Statistics of Verus

Start at: 2018-12-02 06:43:56
End at: 2018-12-02 06:44:26
Local clock offset: -20.25 ms
Remote clock offset: 15.812 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.94 Mbit/s
95th percentile per-packet one-way delay: 227.716 ms
Loss rate: 58.59%
-- Flow 1:
Average throughput: 10.69 Mbit/s
95th percentile per-packet one-way delay: 219.221 ms
Loss rate: 28.48%
-- Flow 2:
Average throughput: 18.91 Mbit/s
95th percentile per-packet one-way delay: 231.190 ms
Loss rate: 69.43%
-- Flow 3:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 218.586 ms
Loss rate: 58.95%

Run 5: Report of Verus — Data Link

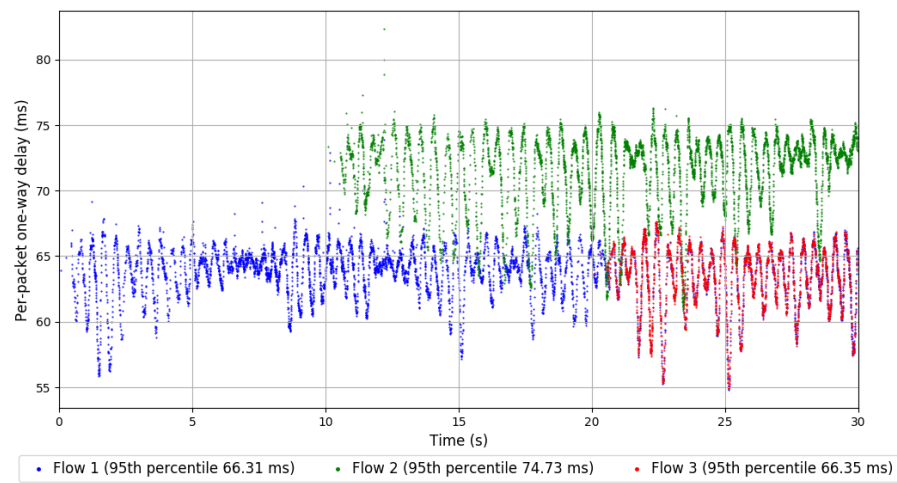
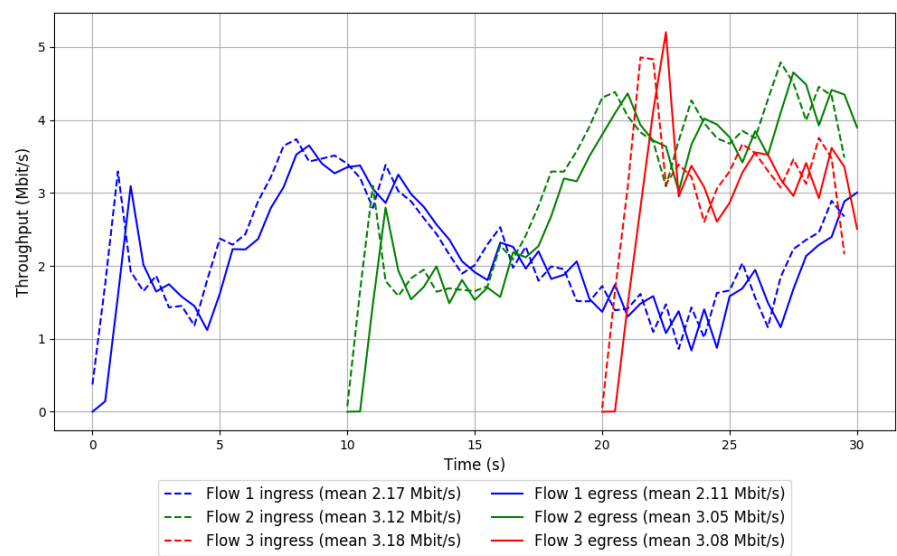


Run 1: Statistics of PCC-Vivace

Start at: 2018-12-02 05:09:16
End at: 2018-12-02 05:09:46
Local clock offset: 3.228 ms
Remote clock offset: 21.513 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 74.150 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 66.306 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 3.05 Mbit/s
95th percentile per-packet one-way delay: 74.732 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 66.351 ms
Loss rate: 3.08%

Run 1: Report of PCC-Vivace — Data Link

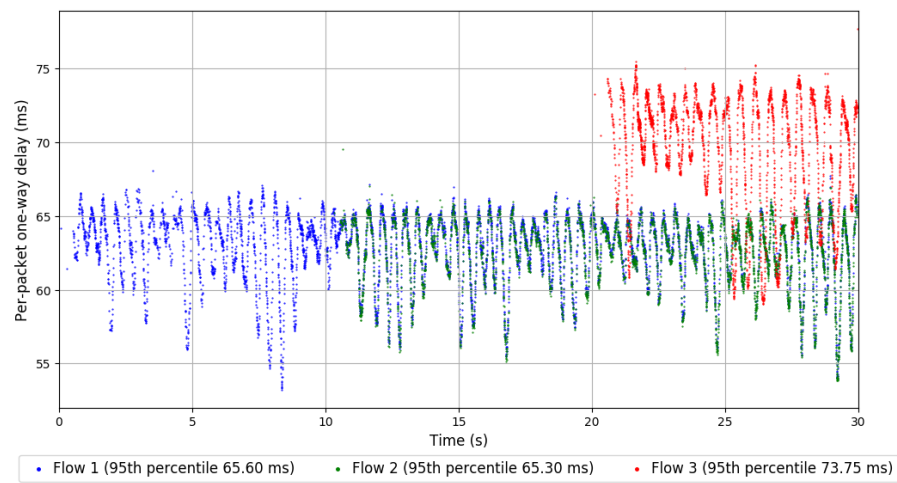
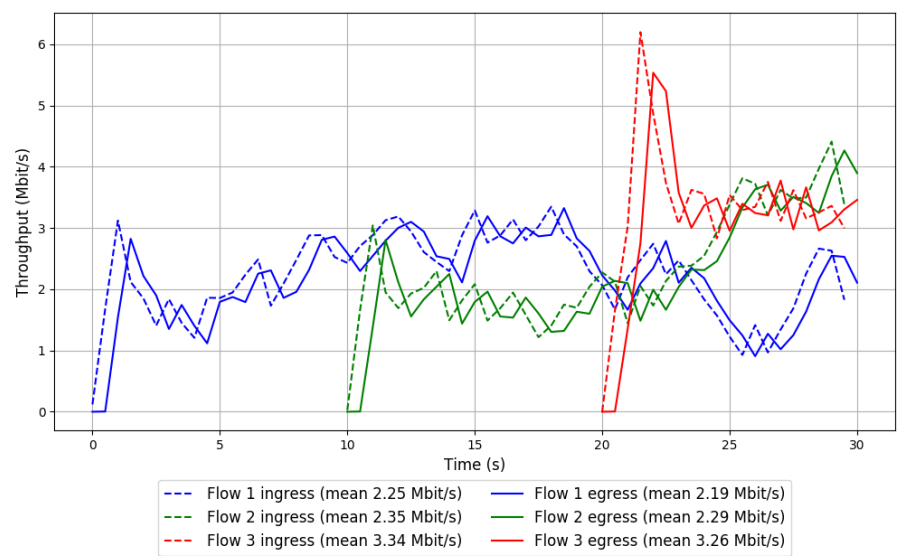


Run 2: Statistics of PCC-Vivace

Start at: 2018-12-02 05:36:07
End at: 2018-12-02 05:36:37
Local clock offset: 0.21 ms
Remote clock offset: 28.522 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 72.542 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 65.602 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 65.295 ms
Loss rate: 2.35%
-- Flow 3:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 73.755 ms
Loss rate: 2.50%

Run 2: Report of PCC-Vivace — Data Link

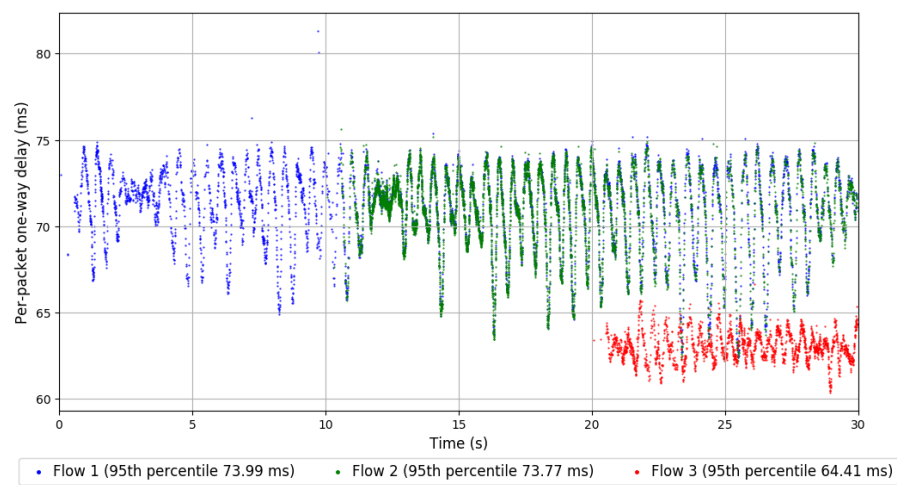
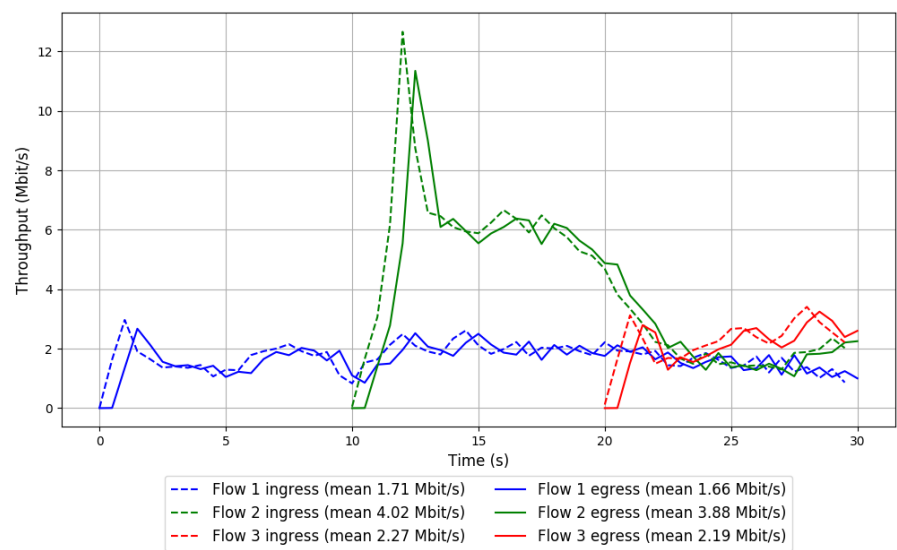


Run 3: Statistics of PCC-Vivace

Start at: 2018-12-02 06:02:54
End at: 2018-12-02 06:03:24
Local clock offset: -11.735 ms
Remote clock offset: 39.27 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 73.801 ms
Loss rate: 3.25%
-- Flow 1:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 73.992 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 73.774 ms
Loss rate: 3.55%
-- Flow 3:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 64.407 ms
Loss rate: 3.53%

Run 3: Report of PCC-Vivace — Data Link

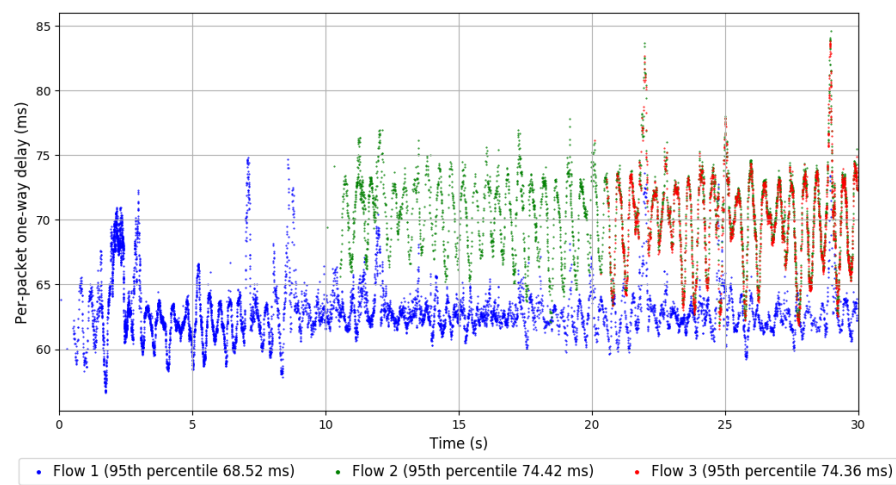
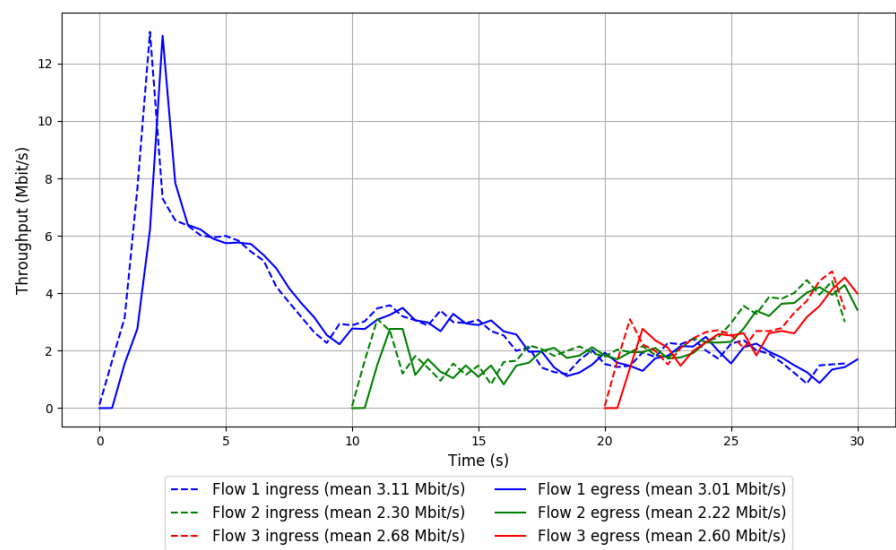


Run 4: Statistics of PCC-Vivace

Start at: 2018-12-02 06:29:52
End at: 2018-12-02 06:30:22
Local clock offset: -17.979 ms
Remote clock offset: 40.851 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 73.440 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 68.516 ms
Loss rate: 3.23%
-- Flow 2:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 74.416 ms
Loss rate: 3.43%
-- Flow 3:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 74.364 ms
Loss rate: 3.19%

Run 4: Report of PCC-Vivace — Data Link

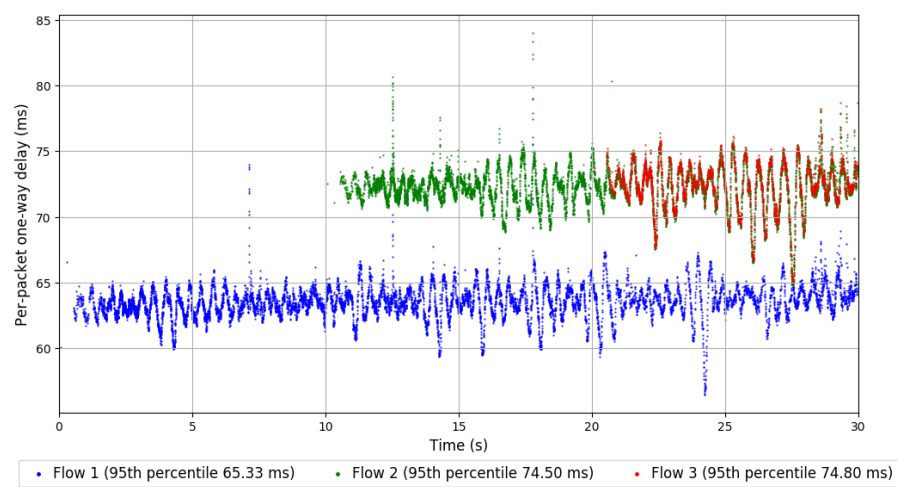
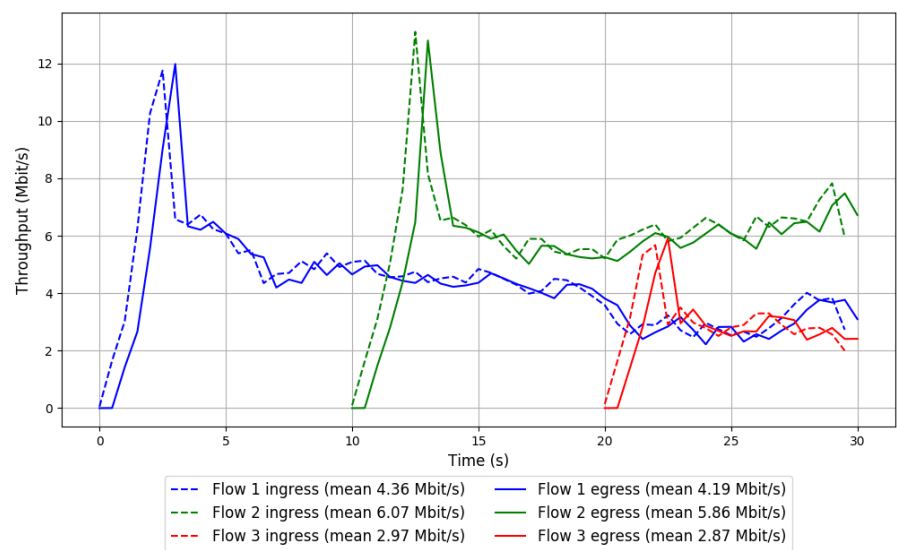


Run 5: Statistics of PCC-Vivace

Start at: 2018-12-02 06:57:10
End at: 2018-12-02 06:57:40
Local clock offset: -5.412 ms
Remote clock offset: -4.057 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 74.142 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 65.328 ms
Loss rate: 3.78%
-- Flow 2:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 74.503 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 74.795 ms
Loss rate: 3.24%

Run 5: Report of PCC-Vivace — Data Link

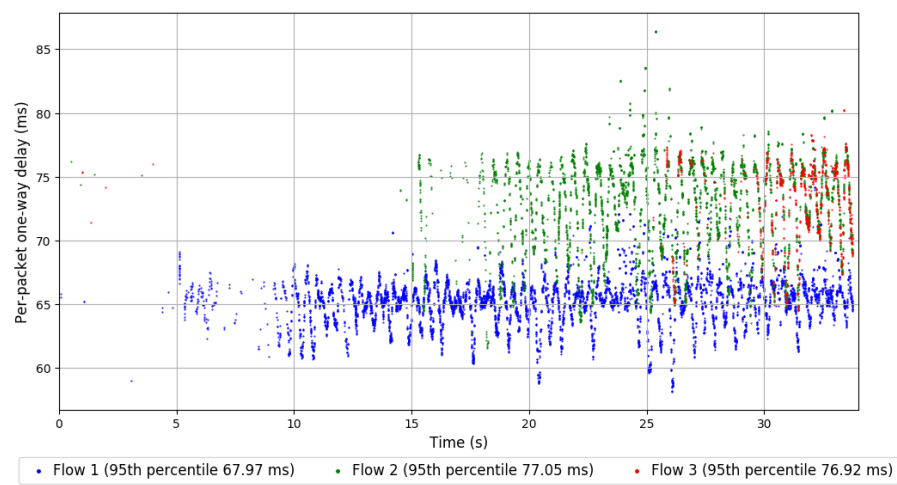
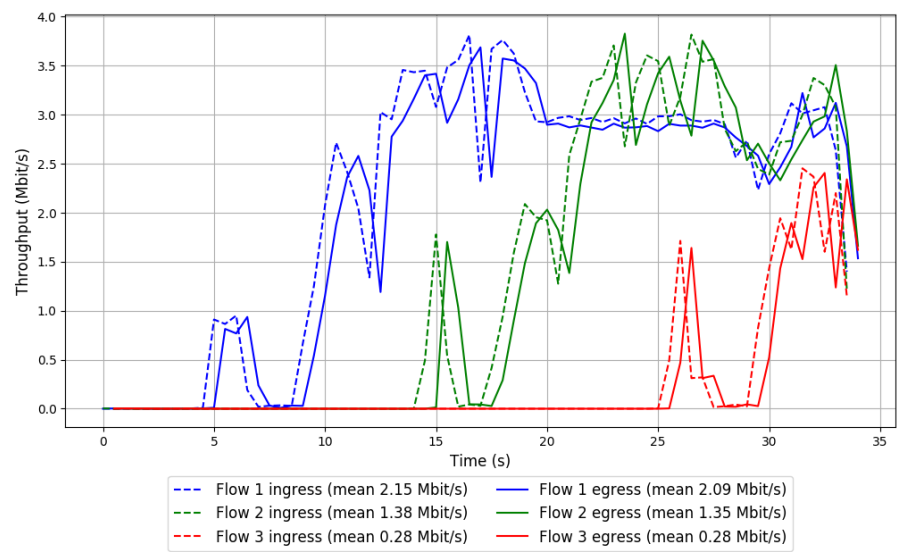


```
Run 1: Statistics of WebRTC media

Start at: 2018-12-02 05:04:48
End at: 2018-12-02 05:05:18
Local clock offset: 3.068 ms
Remote clock offset: 25.626 ms

# Below is generated by plot.py at 2018-12-02 07:02:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 76.288 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 67.969 ms
Loss rate: 2.79%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 77.054 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 76.922 ms
Loss rate: 2.34%
```

Run 1: Report of WebRTC media — Data Link

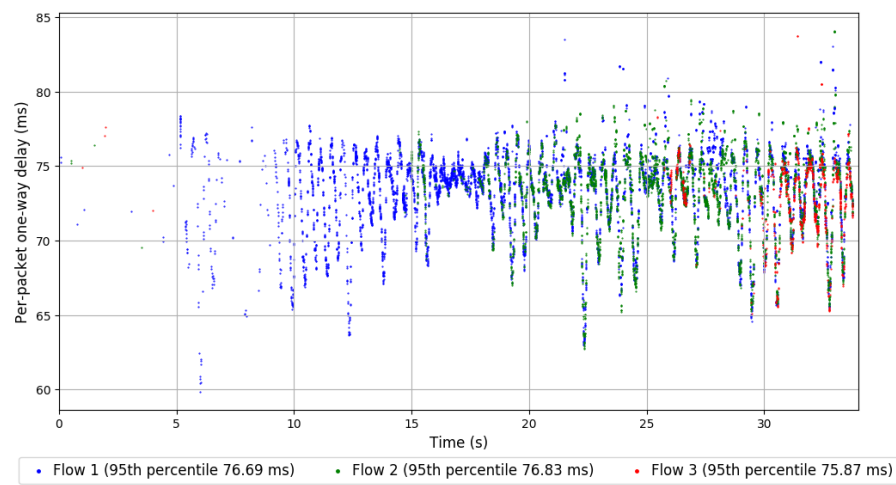
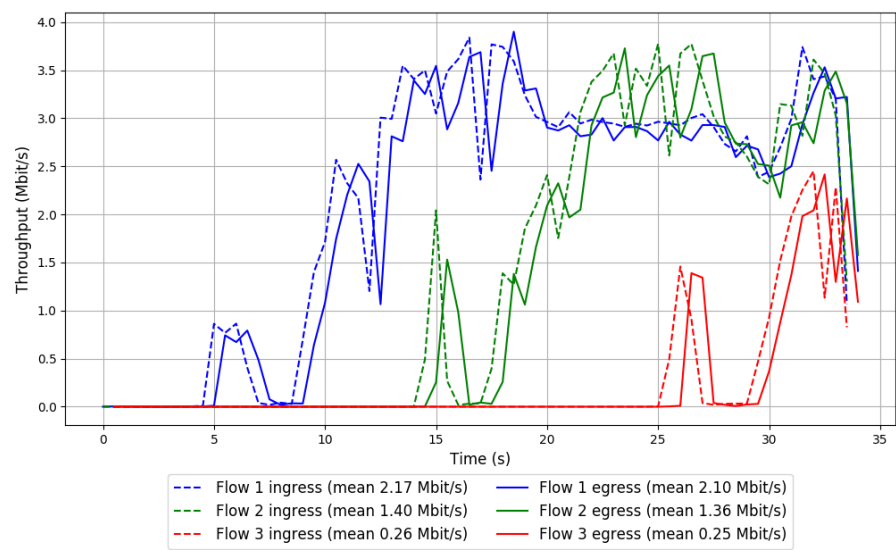


Run 2: Statistics of WebRTC media

Start at: 2018-12-02 05:31:36
End at: 2018-12-02 05:32:06
Local clock offset: 0.624 ms
Remote clock offset: 25.084 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 76.711 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 76.694 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 76.831 ms
Loss rate: 2.83%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 75.871 ms
Loss rate: 2.32%

Run 2: Report of WebRTC media — Data Link

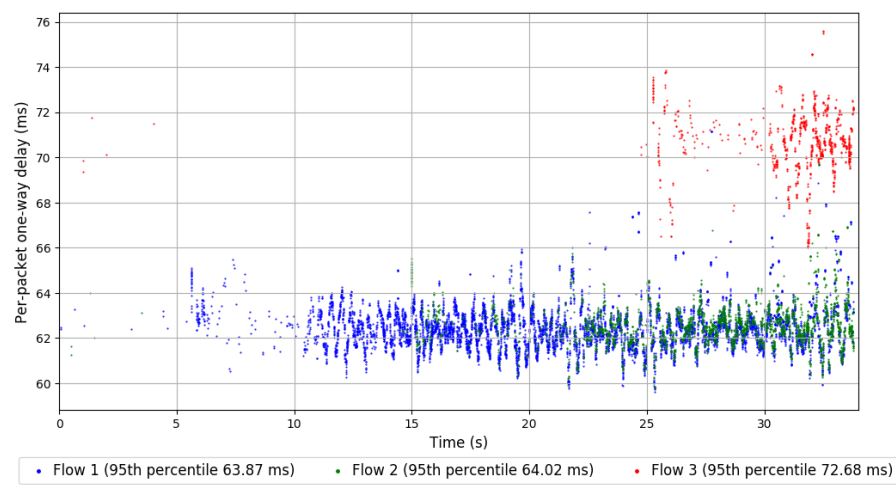
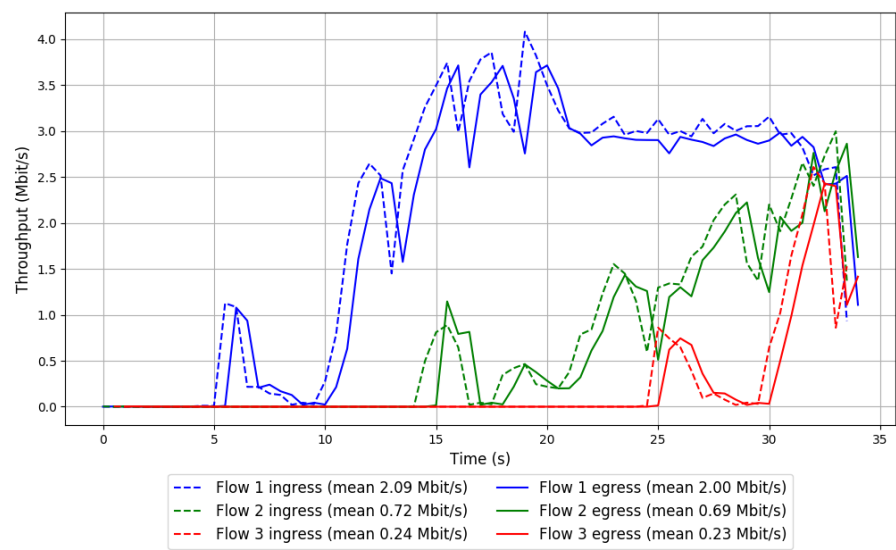


Run 3: Statistics of WebRTC media

Start at: 2018-12-02 05:58:07
End at: 2018-12-02 05:58:37
Local clock offset: -9.341 ms
Remote clock offset: 37.866 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 70.347 ms
Loss rate: 4.37%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 4.41%
-- Flow 2:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 64.022 ms
Loss rate: 4.29%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 72.684 ms
Loss rate: 4.22%

Run 3: Report of WebRTC media — Data Link

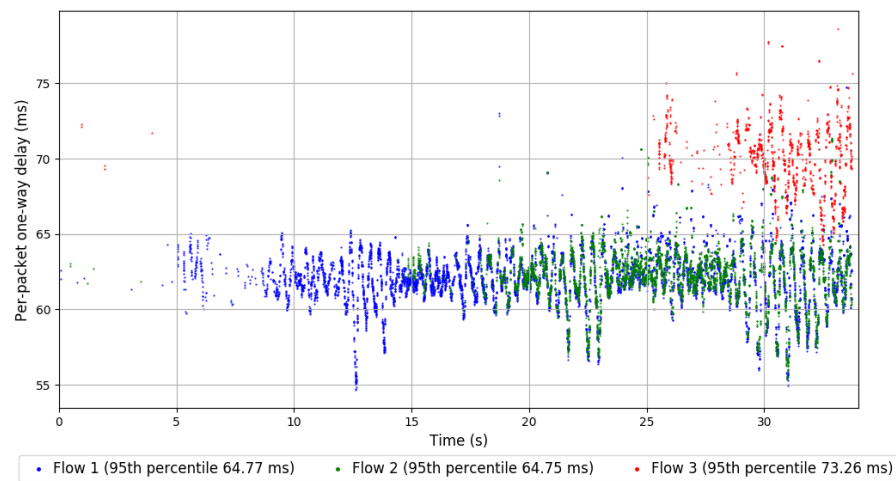
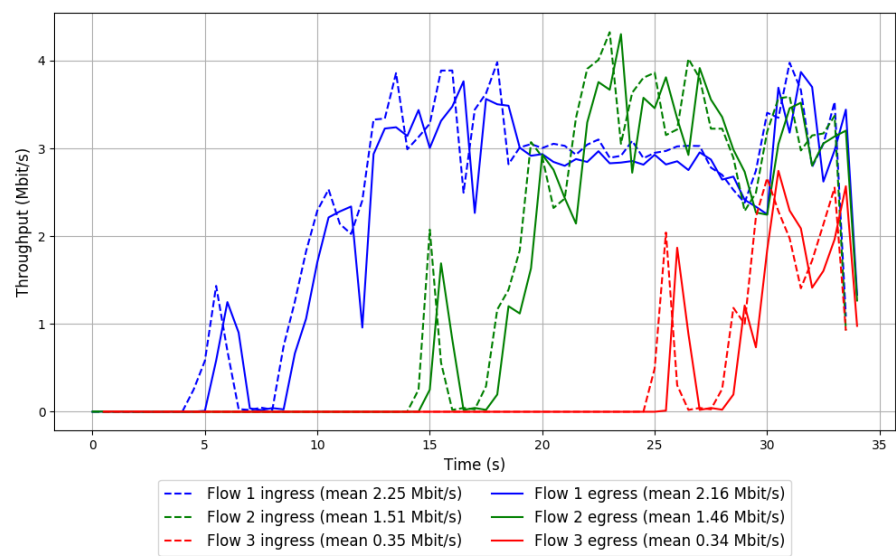


Run 4: Statistics of WebRTC media

Start at: 2018-12-02 06:25:19
End at: 2018-12-02 06:25:49
Local clock offset: -17.039 ms
Remote clock offset: 40.058 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 69.876 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 64.765 ms
Loss rate: 4.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 64.748 ms
Loss rate: 3.88%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 73.259 ms
Loss rate: 3.30%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-02 06:52:39
End at: 2018-12-02 06:53:09
Local clock offset: -11.186 ms
Remote clock offset: 0.607 ms

Below is generated by plot.py at 2018-12-02 07:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 75.242 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 75.831 ms
Loss rate: 3.62%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 66.904 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.194 ms
Loss rate: 4.55%

Run 5: Report of WebRTC media — Data Link

