

## Pantheon Report

Generated at 2019-08-27 14:18:17 (UTC).

Data path: Colombia on **p4p1** (*remote*) → AWS Brazil 2 on **ens5** (*local*).

Repeated the test of 24 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 **gps.ntp.br** and have been applied to correct the timestamps in logs.

### System info:

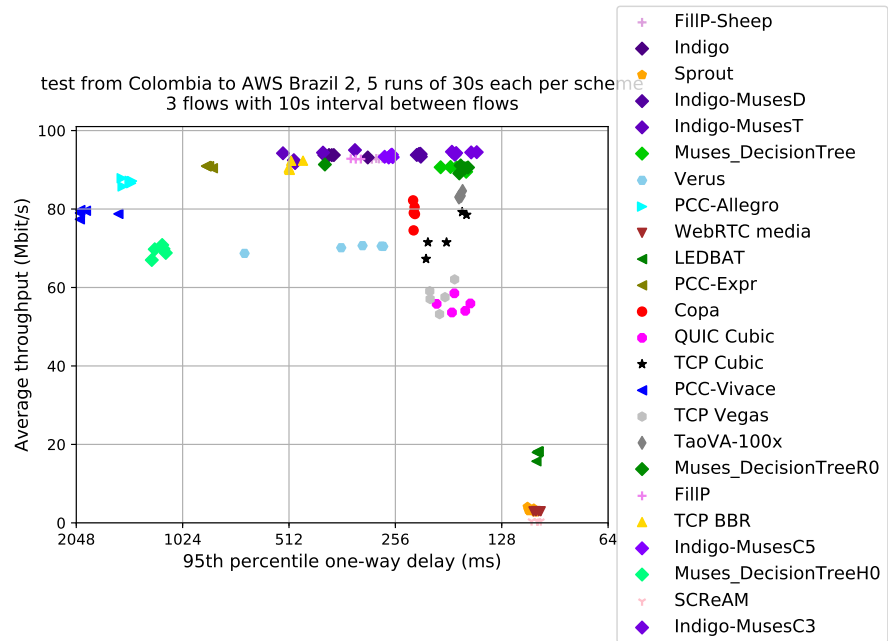
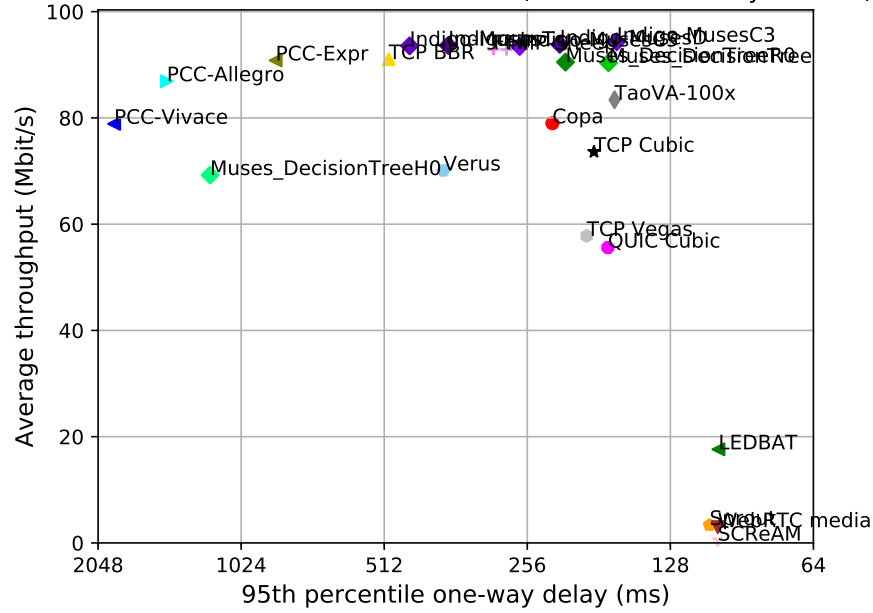
```
Linux 4.15.0-1043-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
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 Colombia to AWS Brazil 2, 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	55.83	38.20	30.07	433.26	636.39	562.69	2.76	5.44	7.47
Copa	5	46.44	34.45	29.42	228.21	157.50	140.05	0.50	0.88	2.26
TCP Cubic	5	41.97	32.17	31.32	190.35	177.89	185.86	0.44	0.82	2.17
FillP	5	57.13	39.27	29.61	318.31	266.44	269.57	1.27	4.01	4.34
FillP-Sheep	5	57.10	38.91	30.22	295.80	245.76	326.97	0.89	2.12	3.32
Indigo	5	58.34	38.93	29.31	399.88	166.45	151.24	5.93	1.47	2.65
Indigo-MusesC3	5	60.39	40.16	29.63	158.08	205.60	165.56	2.61	2.27	3.28
Indigo-MusesC5	5	58.95	40.88	29.77	254.88	274.68	325.44	3.32	3.94	5.92
Indigo-MusesD	5	61.64	37.50	29.50	225.30	171.95	159.14	6.41	4.17	4.14
Indigo-MusesT	5	60.25	40.87	24.76	413.21	573.08	457.65	5.98	6.05	9.13
LEDBAT	5	11.24	7.79	3.77	101.38	101.27	100.78	1.17	1.76	3.44
Muses_DecisionTree	5	55.27	38.59	30.05	161.53	163.57	261.99	0.85	1.06	2.46
Muses_DecisionTreeH0	5	36.98	35.92	26.52	1235.38	1099.58	1352.89	12.79	14.02	19.81
Muses_DecisionTreeR0	5	55.65	38.66	29.23	210.61	159.06	205.57	1.99	1.07	2.53
PCC-Allegro	5	54.65	34.14	29.45	1495.62	1138.13	1374.43	25.63	13.72	20.68
PCC-Expr	5	56.55	38.91	25.93	860.51	859.20	267.56	27.66	7.06	3.57
QUIC Cubic	5	33.44	23.32	20.46	139.88	193.31	250.87	0.58	1.32	3.47
SCReAM	5	0.22	0.22	0.22	101.63	101.39	101.51	0.51	0.99	1.85
Sprout	5	2.15	1.19	1.35	105.22	103.72	104.70	0.91	1.43	2.19
TaoVA-100x	5	49.12	37.36	28.82	165.47	172.49	162.47	0.41	0.84	2.30
TCP Vegas	5	33.70	22.78	27.28	197.49	186.88	184.61	0.51	0.79	2.00
Verus	5	43.18	29.63	22.29	390.97	377.42	404.80	0.84	1.59	2.29
PCC-Vivace	5	50.43	31.93	22.27	1972.21	823.72	357.85	6.19	5.06	3.18
WebRTC media	5	1.68	0.93	0.37	101.74	101.62	101.68	0.39	0.67	1.56

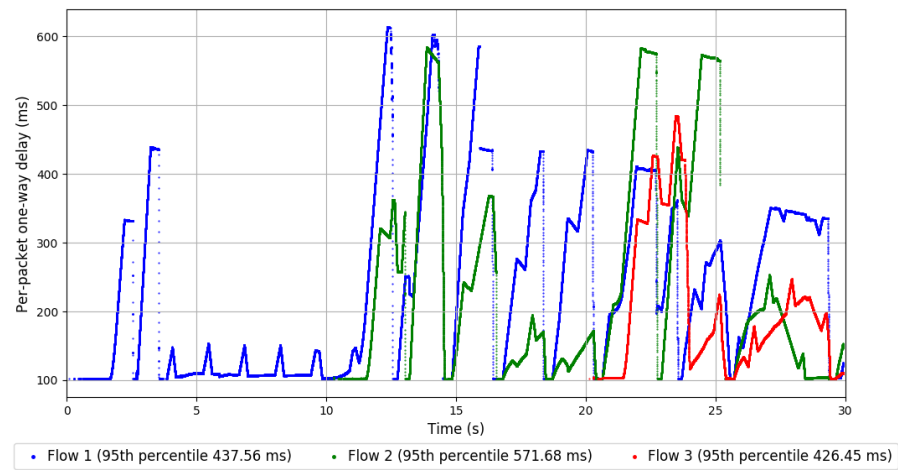
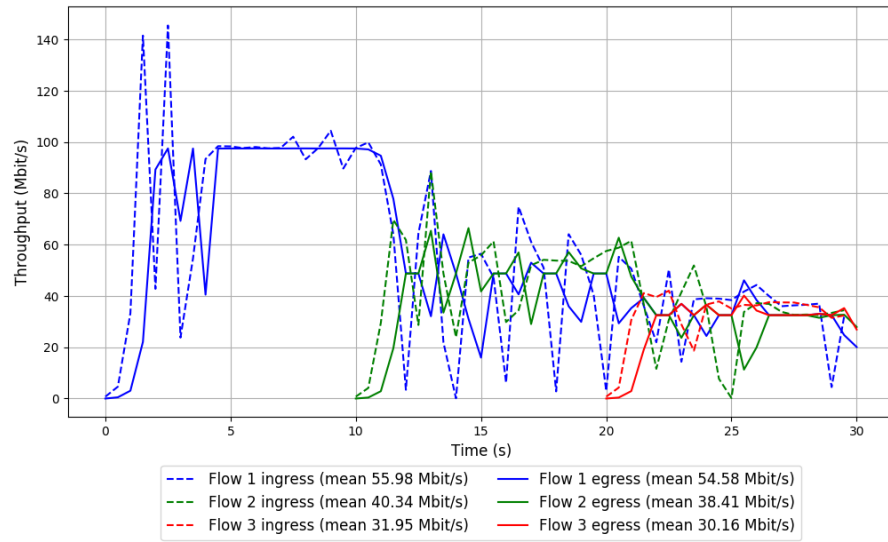


Run 1: Statistics of TCP BBR

Start at: 2019-08-27 11:45:27  
End at: 2019-08-27 11:45:57  
Local clock offset: 0.429 ms  
Remote clock offset: -7.299 ms

# Below is generated by plot.py at 2019-08-27 14:03:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.99 Mbit/s  
95th percentile per-packet one-way delay: 509.367 ms  
Loss rate: 4.27%  
-- Flow 1:  
Average throughput: 54.58 Mbit/s  
95th percentile per-packet one-way delay: 437.561 ms  
Loss rate: 3.06%  
-- Flow 2:  
Average throughput: 38.41 Mbit/s  
95th percentile per-packet one-way delay: 571.679 ms  
Loss rate: 5.62%  
-- Flow 3:  
Average throughput: 30.16 Mbit/s  
95th percentile per-packet one-way delay: 426.448 ms  
Loss rate: 7.28%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-08-27 12:16:24

End at: 2019-08-27 12:16:54

Local clock offset: 0.391 ms

Remote clock offset: -5.17 ms

# Below is generated by plot.py at 2019-08-27 14:03:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 504.722 ms

Loss rate: 4.18%

-- Flow 1:

Average throughput: 56.84 Mbit/s

95th percentile per-packet one-way delay: 406.534 ms

Loss rate: 2.73%

-- Flow 2:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 573.578 ms

Loss rate: 5.67%

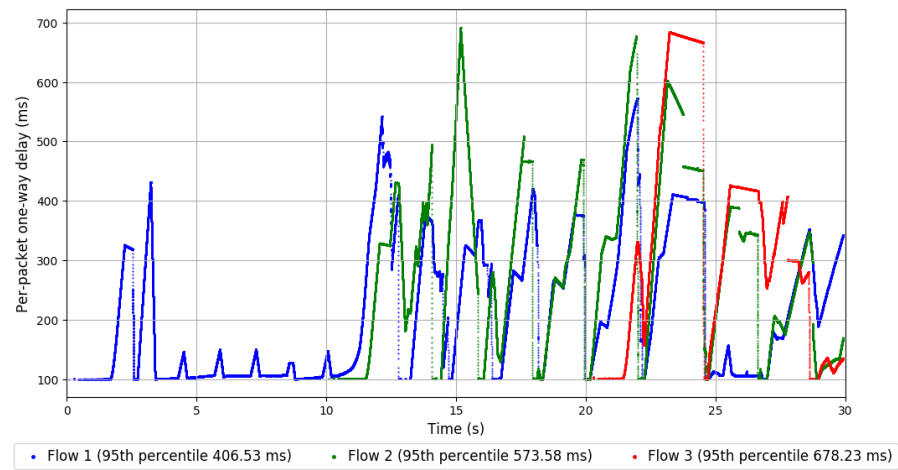
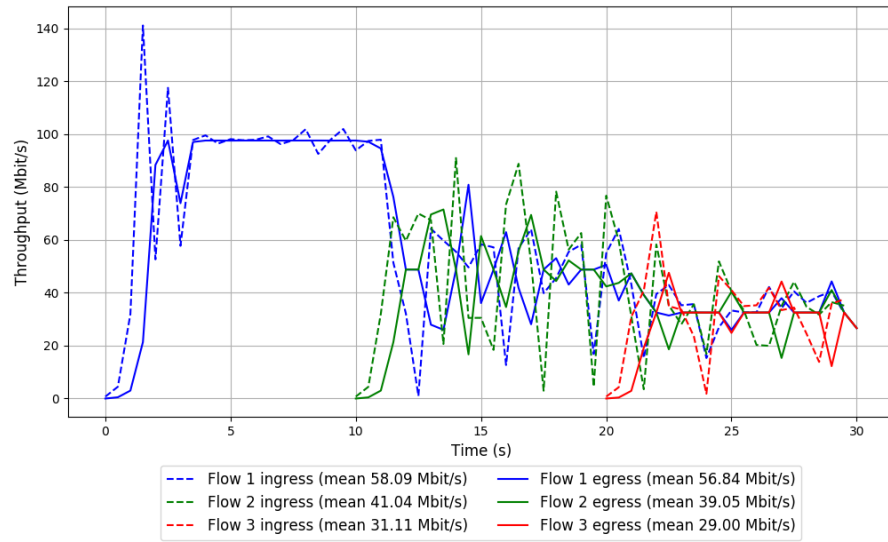
-- Flow 3:

Average throughput: 29.00 Mbit/s

95th percentile per-packet one-way delay: 678.230 ms

Loss rate: 8.38%

## Run 2: Report of TCP BBR — Data Link

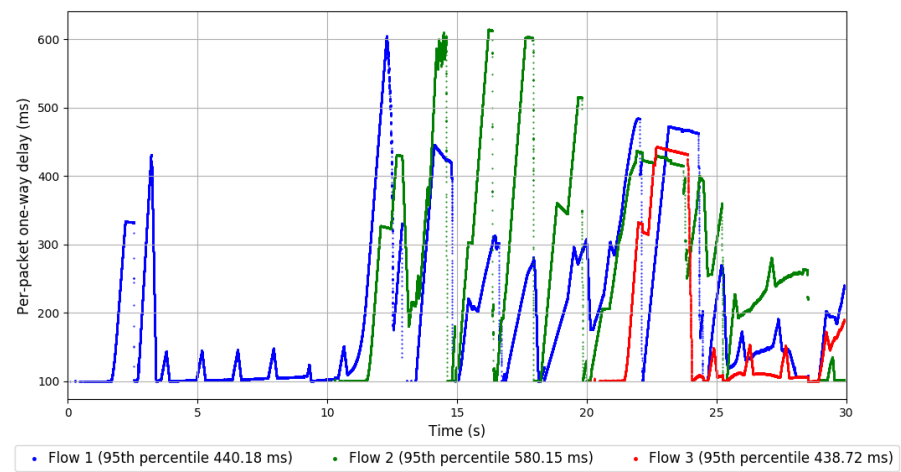
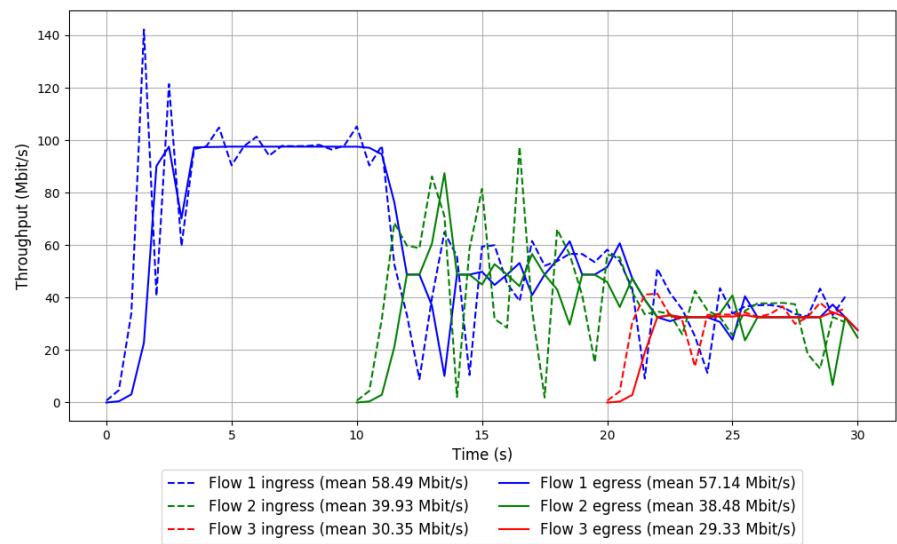


Run 3: Statistics of TCP BBR

Start at: 2019-08-27 12:47:22  
End at: 2019-08-27 12:47:52  
Local clock offset: -0.208 ms  
Remote clock offset: -6.609 ms

# Below is generated by plot.py at 2019-08-27 14:03:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.33 Mbit/s  
95th percentile per-packet one-way delay: 467.288 ms  
Loss rate: 3.55%  
-- Flow 1:  
Average throughput: 57.14 Mbit/s  
95th percentile per-packet one-way delay: 440.180 ms  
Loss rate: 2.87%  
-- Flow 2:  
Average throughput: 38.48 Mbit/s  
95th percentile per-packet one-way delay: 580.148 ms  
Loss rate: 4.48%  
-- Flow 3:  
Average throughput: 29.33 Mbit/s  
95th percentile per-packet one-way delay: 438.721 ms  
Loss rate: 5.03%

Run 3: Report of TCP BBR — Data Link

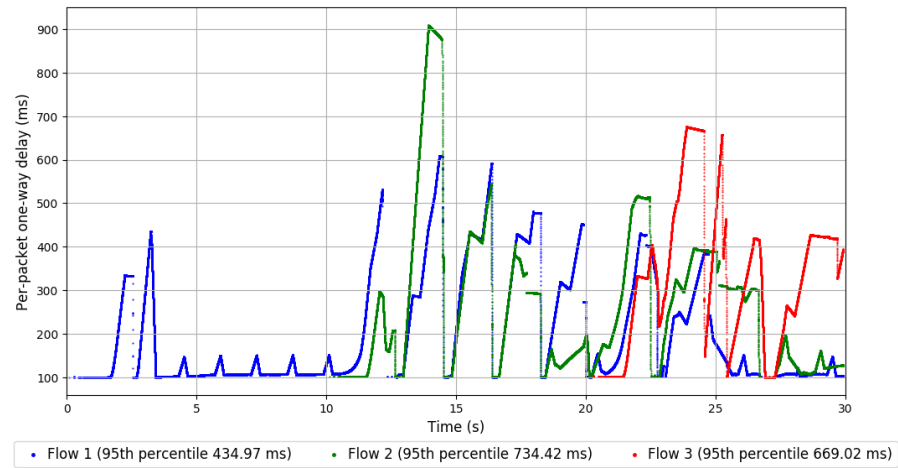
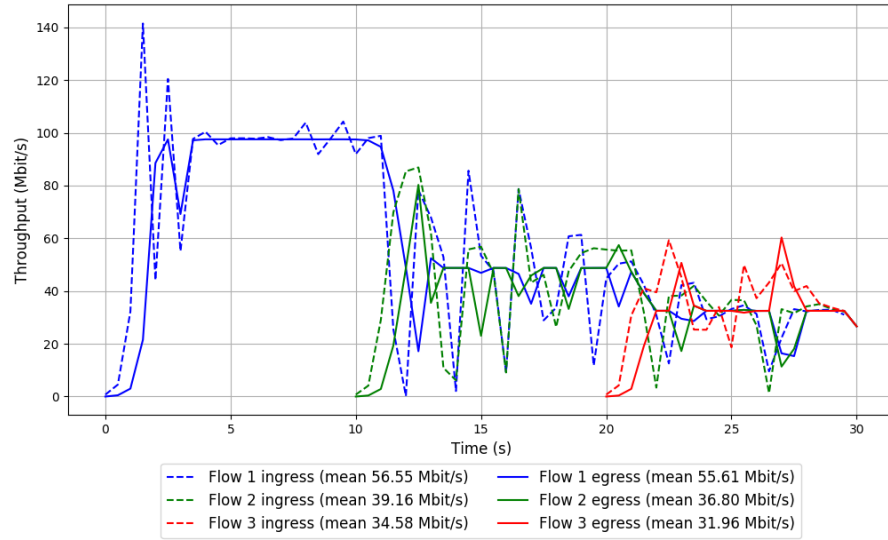


Run 4: Statistics of TCP BBR

Start at: 2019-08-27 13:18:18  
End at: 2019-08-27 13:18:48  
Local clock offset: 0.659 ms  
Remote clock offset: -7.702 ms

# Below is generated by plot.py at 2019-08-27 14:03:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.54 Mbit/s  
95th percentile per-packet one-way delay: 512.581 ms  
Loss rate: 4.35%  
-- Flow 1:  
Average throughput: 55.61 Mbit/s  
95th percentile per-packet one-way delay: 434.971 ms  
Loss rate: 2.22%  
-- Flow 2:  
Average throughput: 36.80 Mbit/s  
95th percentile per-packet one-way delay: 734.419 ms  
Loss rate: 6.85%  
-- Flow 3:  
Average throughput: 31.96 Mbit/s  
95th percentile per-packet one-way delay: 669.021 ms  
Loss rate: 9.14%

# Run 4: Report of TCP BBR — Data Link



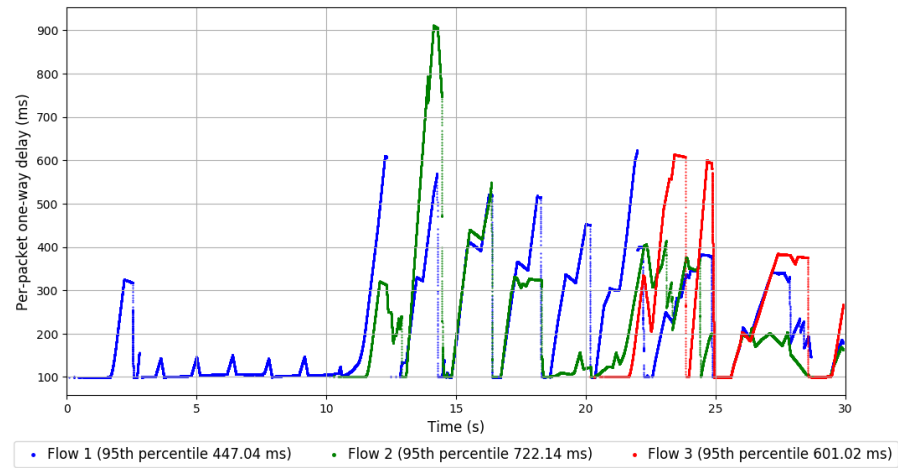
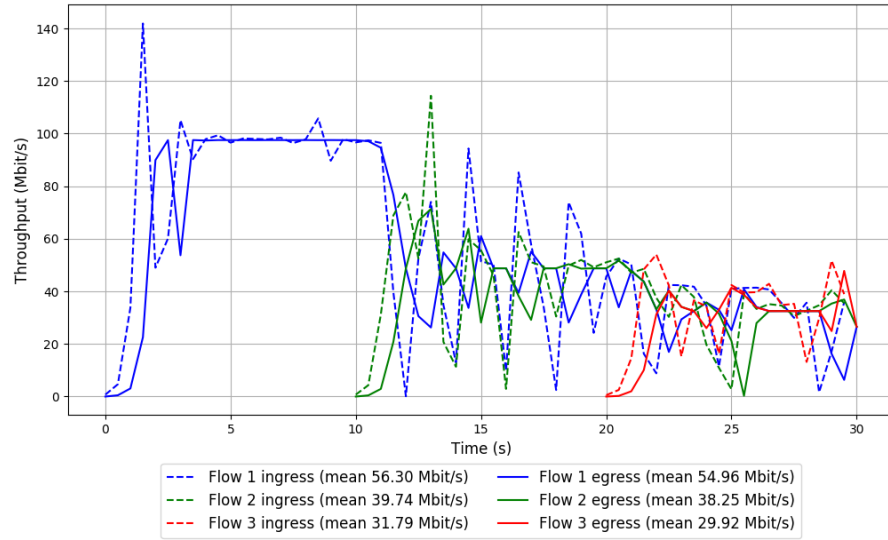


Run 5: Statistics of TCP BBR

Start at: 2019-08-27 13:49:18  
End at: 2019-08-27 13:49:48  
Local clock offset: -0.238 ms  
Remote clock offset: -5.463 ms

# Below is generated by plot.py at 2019-08-27 14:03:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.18 Mbit/s  
95th percentile per-packet one-way delay: 511.354 ms  
Loss rate: 3.92%  
-- Flow 1:  
Average throughput: 54.96 Mbit/s  
95th percentile per-packet one-way delay: 447.040 ms  
Loss rate: 2.93%  
-- Flow 2:  
Average throughput: 38.25 Mbit/s  
95th percentile per-packet one-way delay: 722.142 ms  
Loss rate: 4.59%  
-- Flow 3:  
Average throughput: 29.92 Mbit/s  
95th percentile per-packet one-way delay: 601.025 ms  
Loss rate: 7.54%

# Run 5: Report of TCP BBR — Data Link

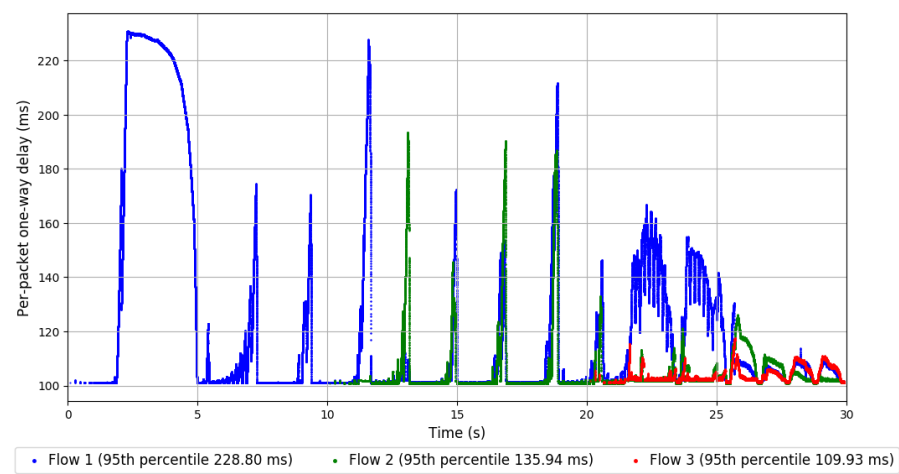
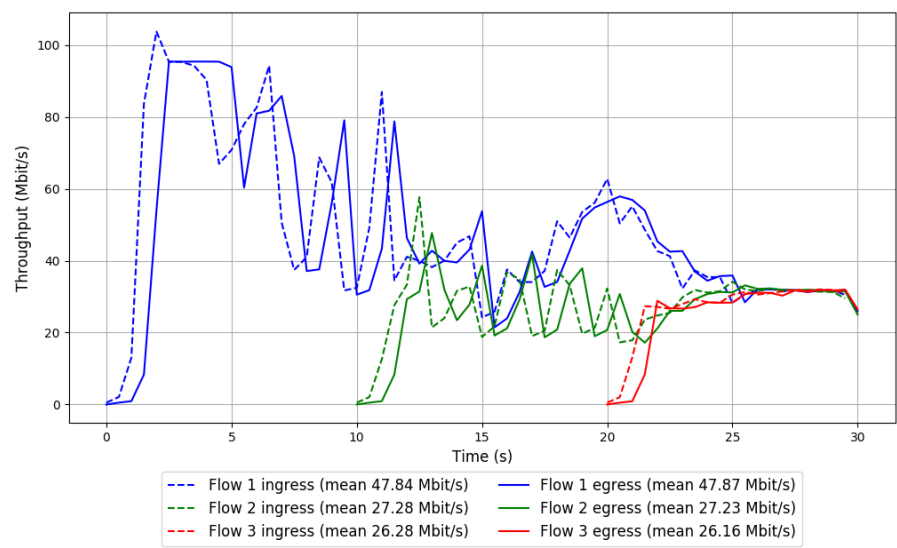


Run 1: Statistics of Copa

Start at: 2019-08-27 11:40:16  
End at: 2019-08-27 11:40:46  
Local clock offset: 0.408 ms  
Remote clock offset: -8.026 ms

# Below is generated by plot.py at 2019-08-27 14:04:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.56 Mbit/s  
95th percentile per-packet one-way delay: 227.320 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 47.87 Mbit/s  
95th percentile per-packet one-way delay: 228.799 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 27.23 Mbit/s  
95th percentile per-packet one-way delay: 135.936 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 26.16 Mbit/s  
95th percentile per-packet one-way delay: 109.927 ms  
Loss rate: 2.19%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-08-27 12:11:12

End at: 2019-08-27 12:11:42

Local clock offset: -0.372 ms

Remote clock offset: -5.07 ms

# Below is generated by plot.py at 2019-08-27 14:04:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.03 Mbit/s

95th percentile per-packet one-way delay: 227.060 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 228.826 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 155.102 ms

Loss rate: 0.80%

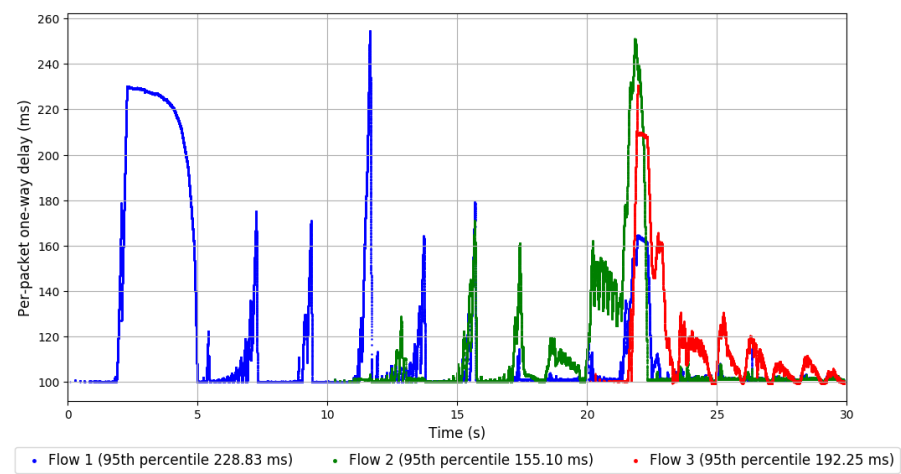
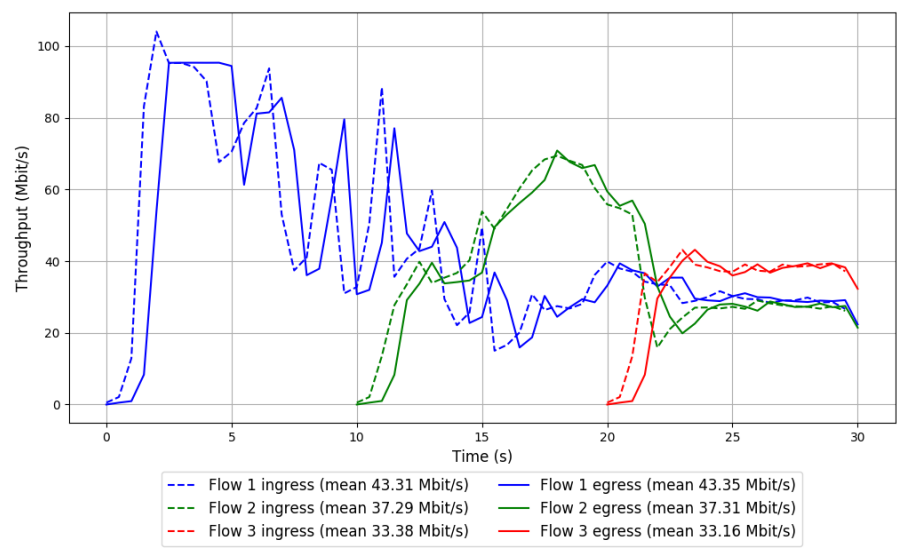
-- Flow 3:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 192.252 ms

Loss rate: 2.38%

Run 2: Report of Copa — Data Link

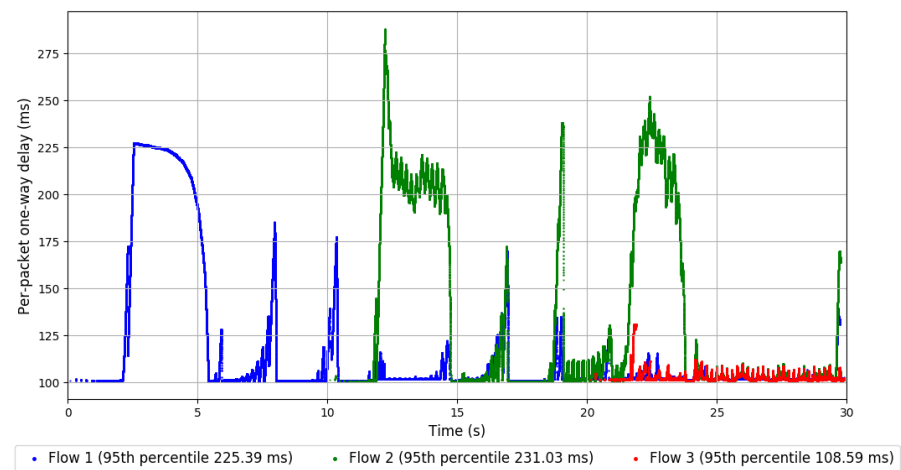
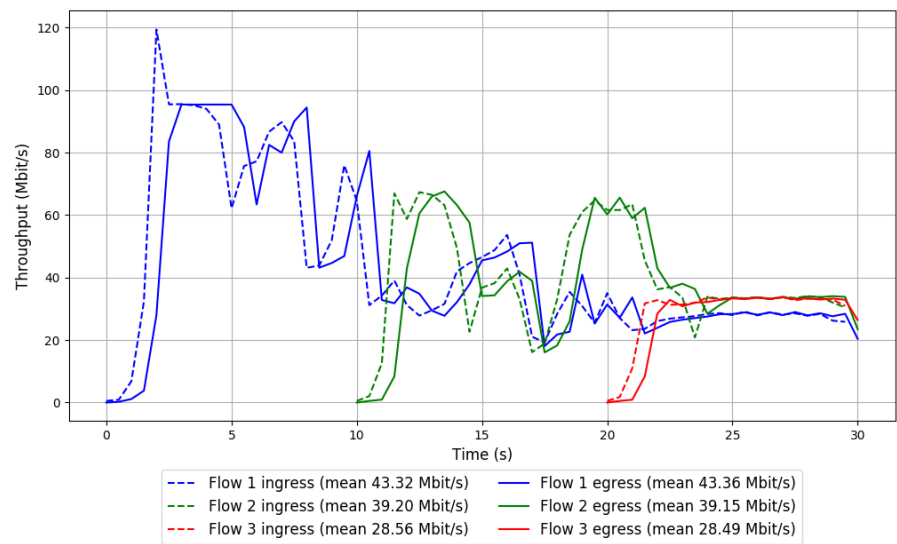


Run 3: Statistics of Copa

Start at: 2019-08-27 12:42:09  
End at: 2019-08-27 12:42:39  
Local clock offset: 0.555 ms  
Remote clock offset: -6.363 ms

# Below is generated by plot.py at 2019-08-27 14:04:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.72 Mbit/s  
95th percentile per-packet one-way delay: 225.345 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 43.36 Mbit/s  
95th percentile per-packet one-way delay: 225.391 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 39.15 Mbit/s  
95th percentile per-packet one-way delay: 231.025 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 28.49 Mbit/s  
95th percentile per-packet one-way delay: 108.593 ms  
Loss rate: 1.98%

Run 3: Report of Copa — Data Link



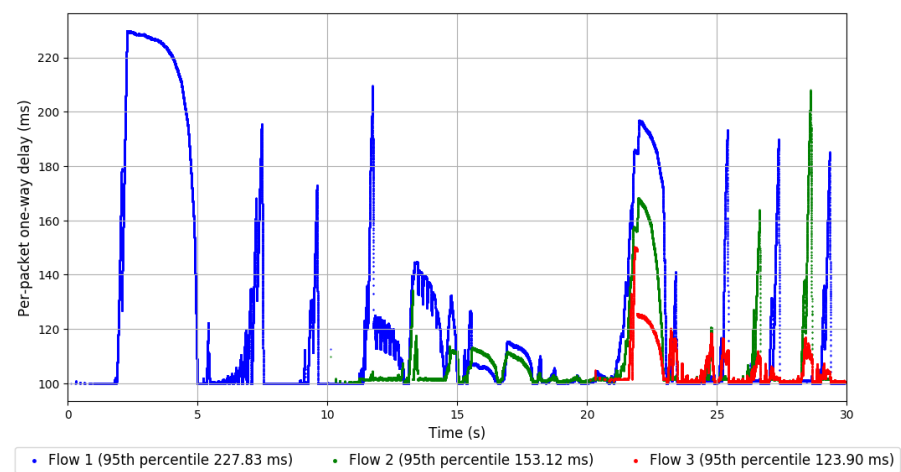
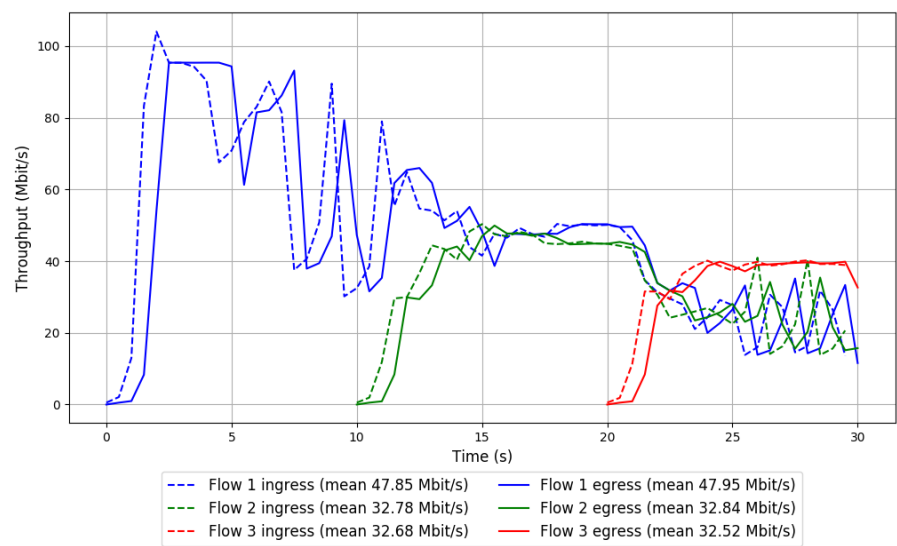


Run 4: Statistics of Copa

Start at: 2019-08-27 13:13:06  
End at: 2019-08-27 13:13:36  
Local clock offset: 0.623 ms  
Remote clock offset: -7.214 ms

# Below is generated by plot.py at 2019-08-27 14:05:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.45 Mbit/s  
95th percentile per-packet one-way delay: 225.909 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 47.95 Mbit/s  
95th percentile per-packet one-way delay: 227.834 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 32.84 Mbit/s  
95th percentile per-packet one-way delay: 153.116 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 32.52 Mbit/s  
95th percentile per-packet one-way delay: 123.897 ms  
Loss rate: 2.20%

Run 4: Report of Copa — Data Link

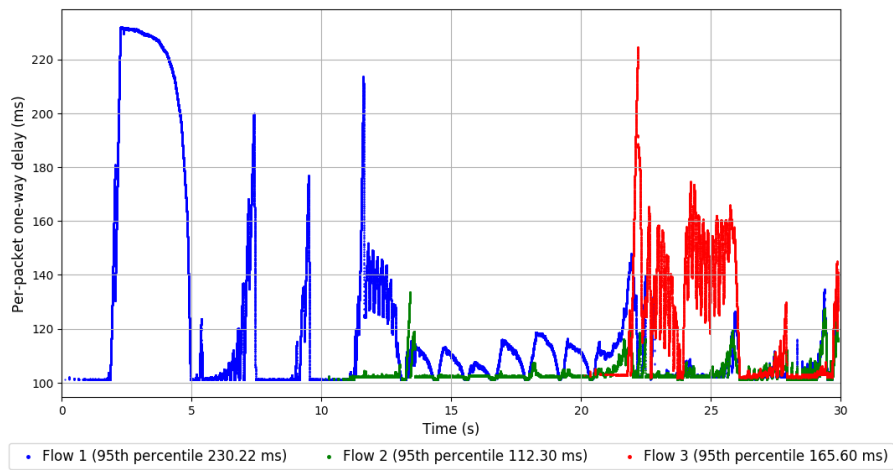
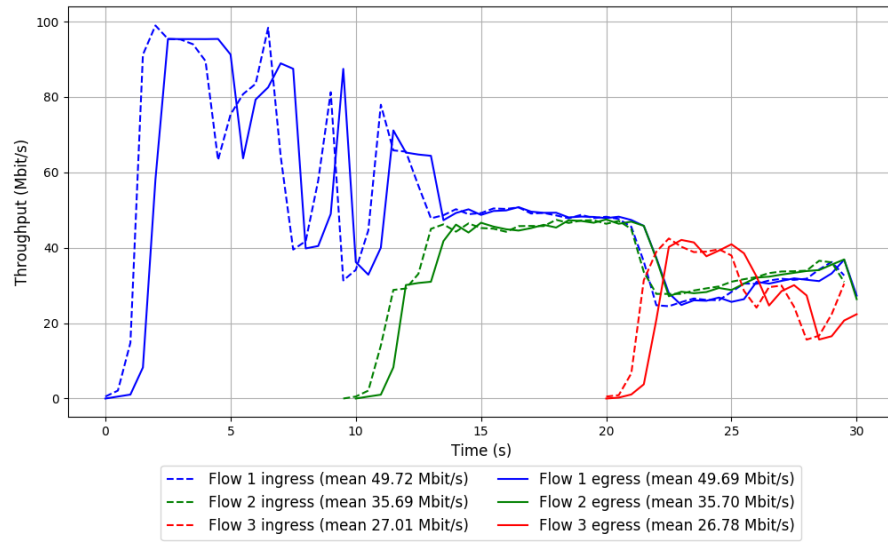


Run 5: Statistics of Copa

Start at: 2019-08-27 13:44:03  
End at: 2019-08-27 13:44:33  
Local clock offset: 0.471 ms  
Remote clock offset: -6.775 ms

# Below is generated by plot.py at 2019-08-27 14:05:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.21 Mbit/s  
95th percentile per-packet one-way delay: 228.052 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 49.69 Mbit/s  
95th percentile per-packet one-way delay: 230.221 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 35.70 Mbit/s  
95th percentile per-packet one-way delay: 112.301 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 26.78 Mbit/s  
95th percentile per-packet one-way delay: 165.603 ms  
Loss rate: 2.56%

## Run 5: Report of Copa — Data Link

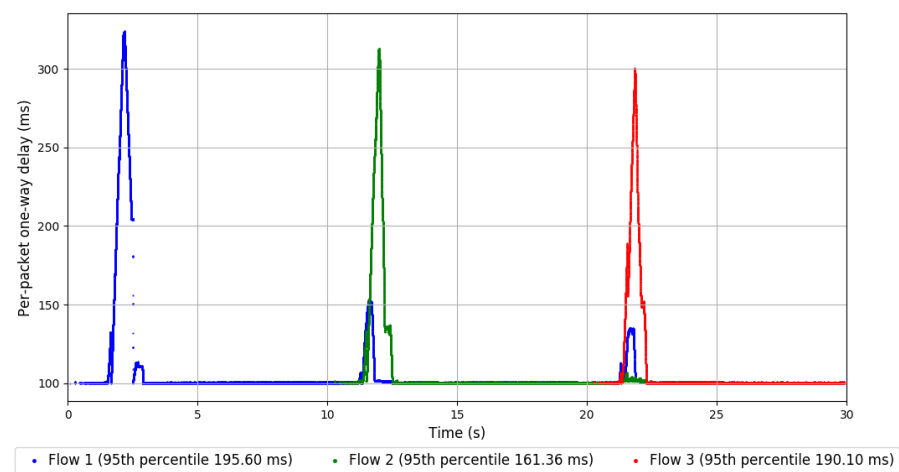
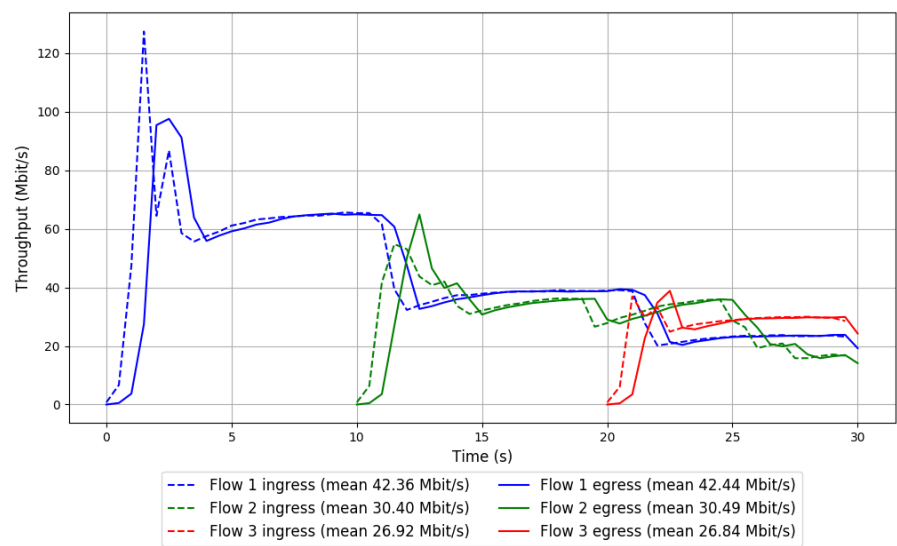


Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 11:44:11  
End at: 2019-08-27 11:44:41  
Local clock offset: -0.348 ms  
Remote clock offset: -6.768 ms

# Below is generated by plot.py at 2019-08-27 14:05:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.51 Mbit/s  
95th percentile per-packet one-way delay: 183.416 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 42.44 Mbit/s  
95th percentile per-packet one-way delay: 195.601 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 30.49 Mbit/s  
95th percentile per-packet one-way delay: 161.356 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 26.84 Mbit/s  
95th percentile per-packet one-way delay: 190.100 ms  
Loss rate: 2.03%

Run 1: Report of TCP Cubic — Data Link

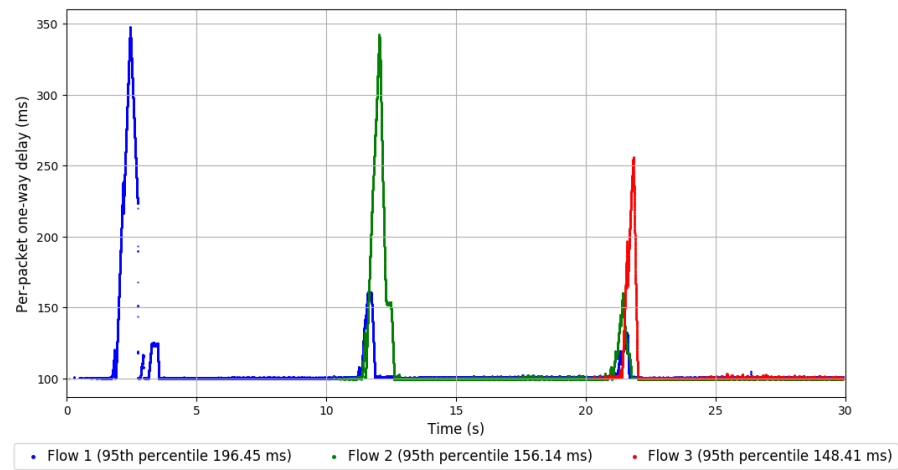
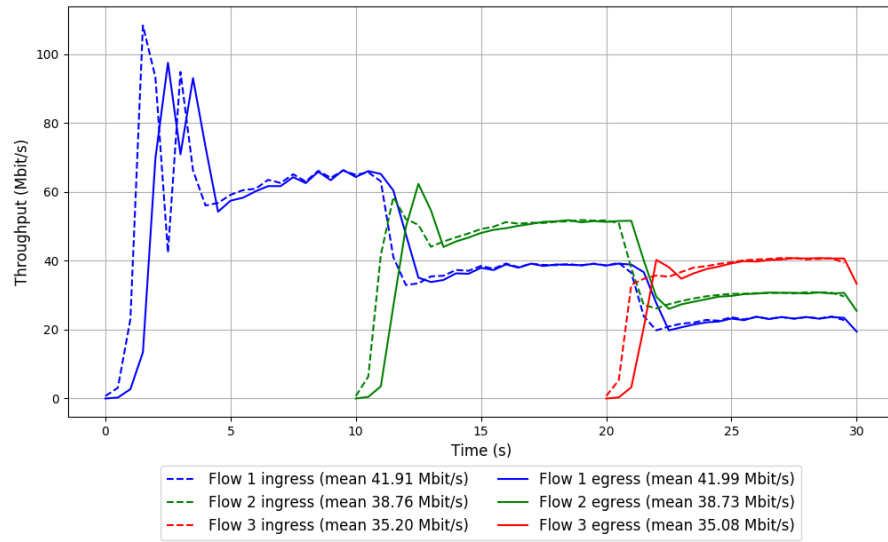


Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 12:15:07  
End at: 2019-08-27 12:15:37  
Local clock offset: -0.298 ms  
Remote clock offset: -5.648 ms

# Below is generated by plot.py at 2019-08-27 14:05:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.23 Mbit/s  
95th percentile per-packet one-way delay: 165.635 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 41.99 Mbit/s  
95th percentile per-packet one-way delay: 196.448 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 38.73 Mbit/s  
95th percentile per-packet one-way delay: 156.138 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 35.08 Mbit/s  
95th percentile per-packet one-way delay: 148.410 ms  
Loss rate: 2.05%

## Run 2: Report of TCP Cubic — Data Link



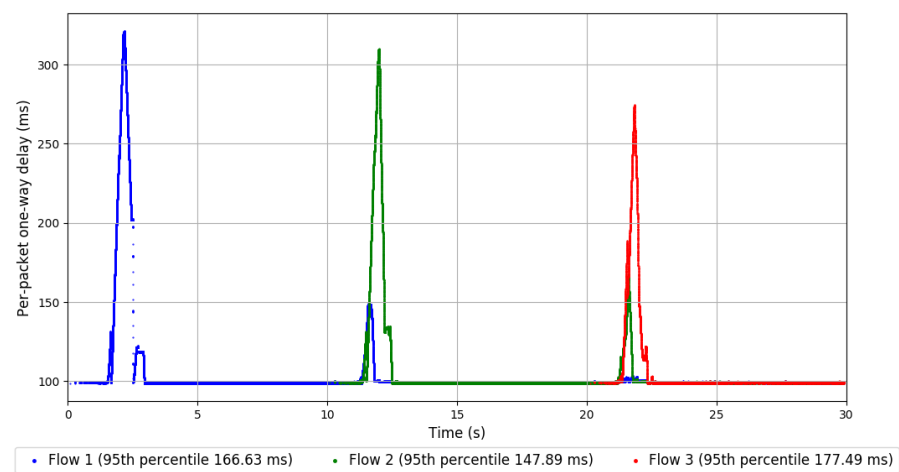
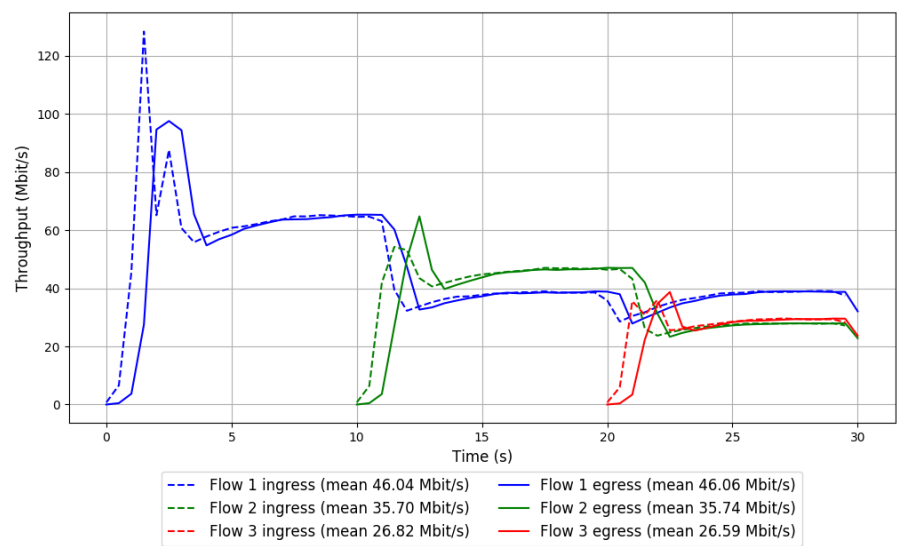


Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 12:46:04  
End at: 2019-08-27 12:46:34  
Local clock offset: -0.203 ms  
Remote clock offset: -4.962 ms

# Below is generated by plot.py at 2019-08-27 14:05:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.53 Mbit/s  
95th percentile per-packet one-way delay: 161.040 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 46.06 Mbit/s  
95th percentile per-packet one-way delay: 166.630 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 35.74 Mbit/s  
95th percentile per-packet one-way delay: 147.887 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 26.59 Mbit/s  
95th percentile per-packet one-way delay: 177.491 ms  
Loss rate: 2.55%

Run 3: Report of TCP Cubic — Data Link

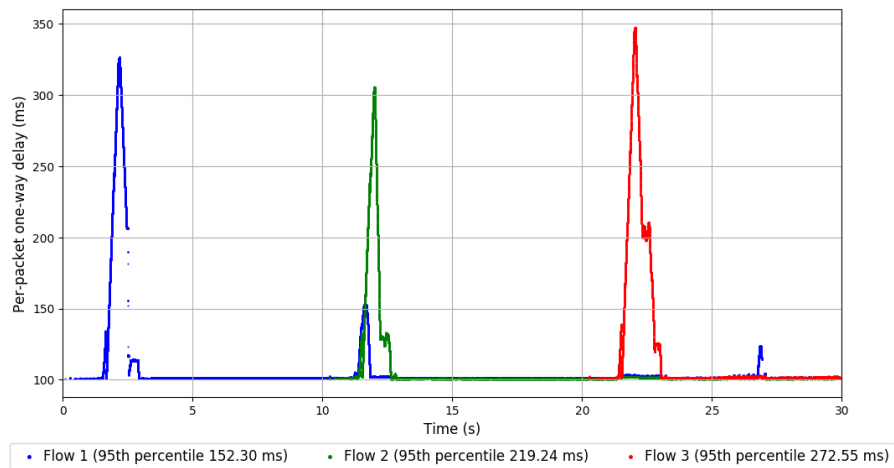
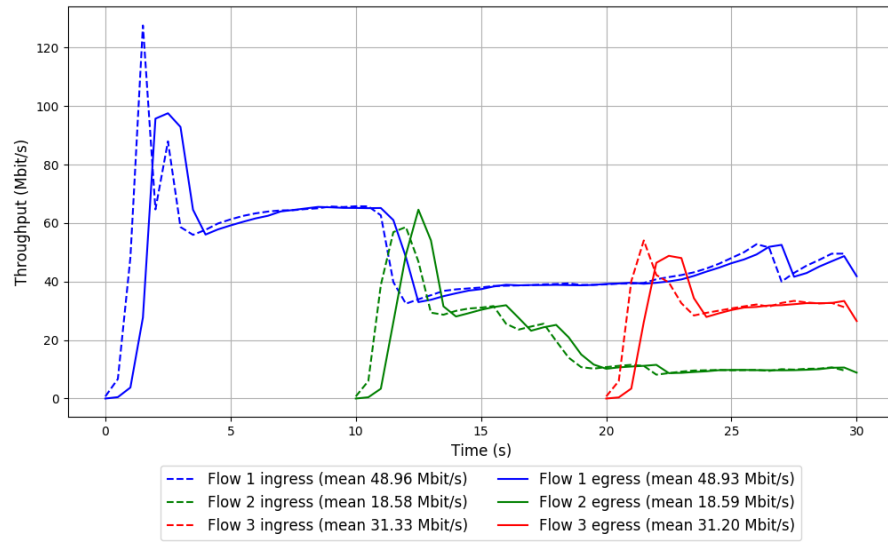


Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 13:17:01  
End at: 2019-08-27 13:17:31  
Local clock offset: -0.135 ms  
Remote clock offset: -8.242 ms

# Below is generated by plot.py at 2019-08-27 14:05:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.53 Mbit/s  
95th percentile per-packet one-way delay: 207.084 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 48.93 Mbit/s  
95th percentile per-packet one-way delay: 152.300 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 18.59 Mbit/s  
95th percentile per-packet one-way delay: 219.241 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 31.20 Mbit/s  
95th percentile per-packet one-way delay: 272.550 ms  
Loss rate: 2.15%

#### Run 4: Report of TCP Cubic — Data Link

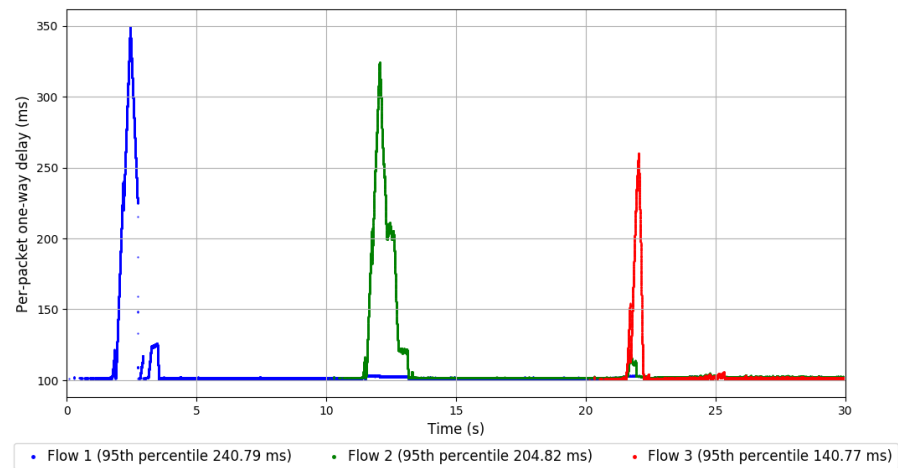
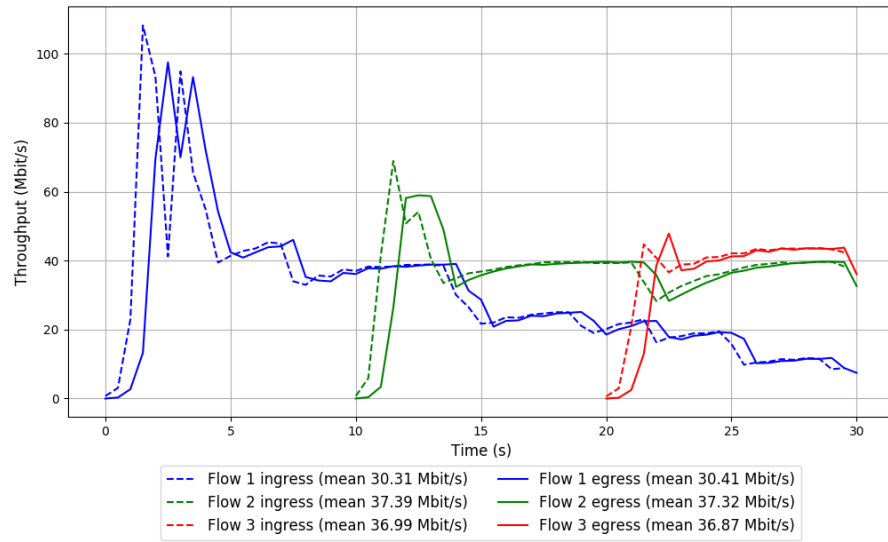


Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 13:48:00  
End at: 2019-08-27 13:48:30  
Local clock offset: -0.249 ms  
Remote clock offset: -6.793 ms

# Below is generated by plot.py at 2019-08-27 14:05:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.28 Mbit/s  
95th percentile per-packet one-way delay: 209.607 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 30.41 Mbit/s  
95th percentile per-packet one-way delay: 240.789 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 37.32 Mbit/s  
95th percentile per-packet one-way delay: 204.825 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 36.87 Mbit/s  
95th percentile per-packet one-way delay: 140.772 ms  
Loss rate: 2.05%

## Run 5: Report of TCP Cubic — Data Link

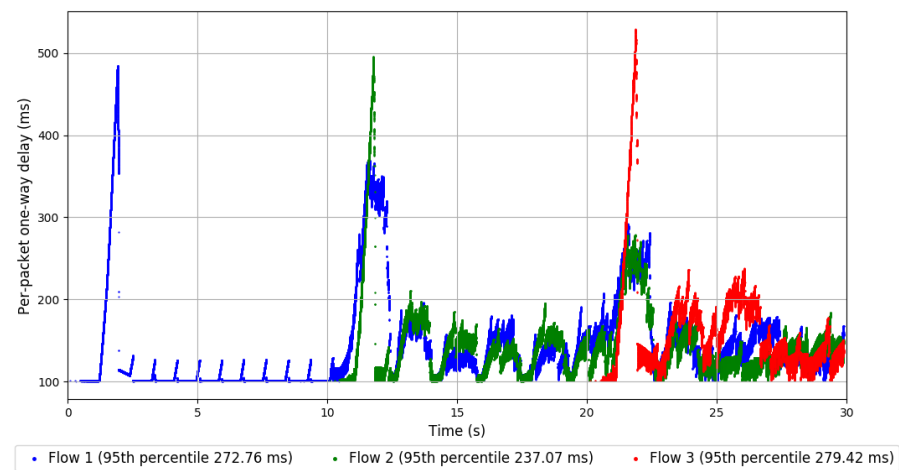
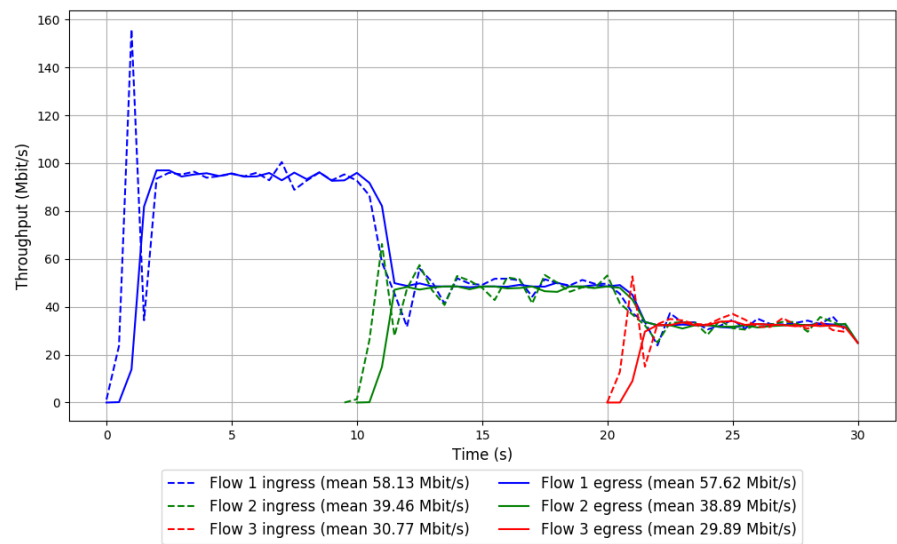


Run 1: Statistics of FillP

Start at: 2019-08-27 11:28:36  
End at: 2019-08-27 11:29:06  
Local clock offset: 0.412 ms  
Remote clock offset: -9.539 ms

# Below is generated by plot.py at 2019-08-27 14:06:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.26 Mbit/s  
95th percentile per-packet one-way delay: 257.386 ms  
Loss rate: 1.97%  
-- Flow 1:  
Average throughput: 57.62 Mbit/s  
95th percentile per-packet one-way delay: 272.757 ms  
Loss rate: 1.42%  
-- Flow 2:  
Average throughput: 38.89 Mbit/s  
95th percentile per-packet one-way delay: 237.074 ms  
Loss rate: 2.28%  
-- Flow 3:  
Average throughput: 29.89 Mbit/s  
95th percentile per-packet one-way delay: 279.422 ms  
Loss rate: 4.27%

Run 1: Report of FillP — Data Link



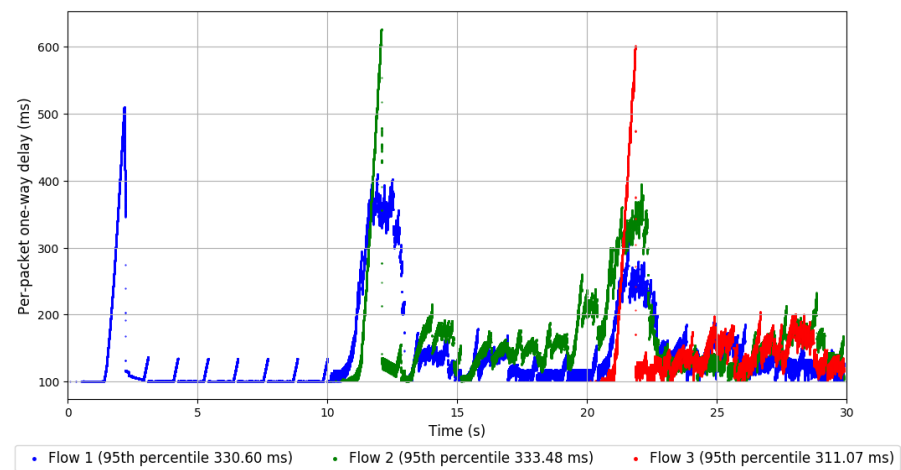
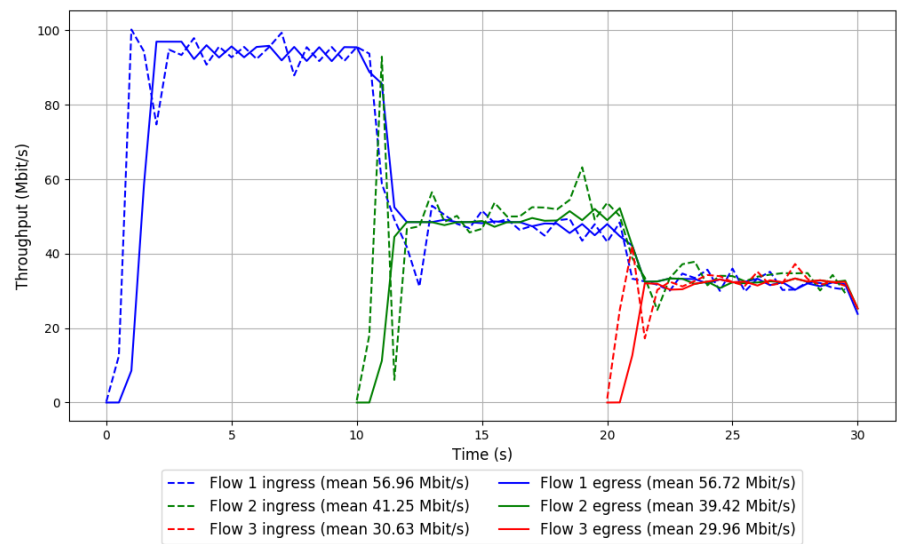


Run 2: Statistics of FillP

Start at: 2019-08-27 11:59:33  
End at: 2019-08-27 12:00:03  
Local clock offset: 0.466 ms  
Remote clock offset: -5.576 ms

# Below is generated by plot.py at 2019-08-27 14:06:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.72 Mbit/s  
95th percentile per-packet one-way delay: 331.380 ms  
Loss rate: 2.52%  
-- Flow 1:  
Average throughput: 56.72 Mbit/s  
95th percentile per-packet one-way delay: 330.598 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 39.42 Mbit/s  
95th percentile per-packet one-way delay: 333.481 ms  
Loss rate: 5.20%  
-- Flow 3:  
Average throughput: 29.96 Mbit/s  
95th percentile per-packet one-way delay: 311.068 ms  
Loss rate: 3.86%

Run 2: Report of FillP — Data Link

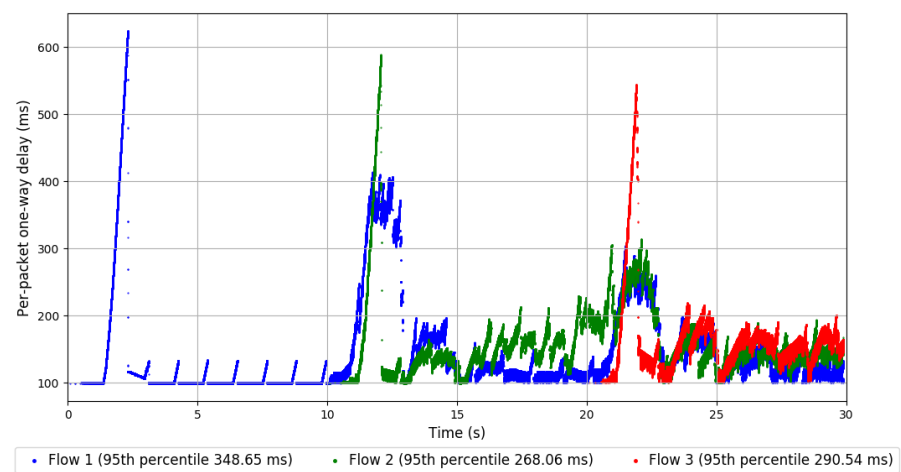
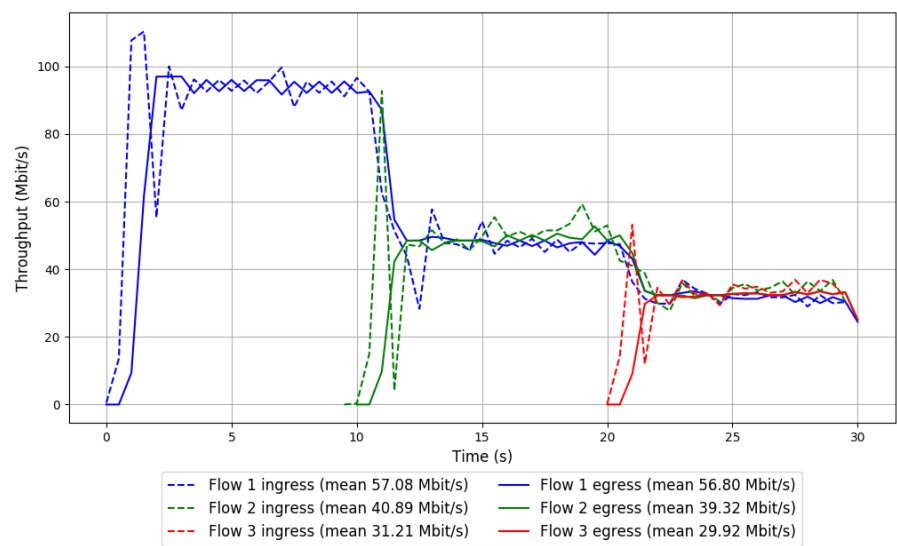


Run 3: Statistics of FillP

Start at: 2019-08-27 12:30:30  
End at: 2019-08-27 12:31:00  
Local clock offset: -0.263 ms  
Remote clock offset: -6.067 ms

# Below is generated by plot.py at 2019-08-27 14:06:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.74 Mbit/s  
95th percentile per-packet one-way delay: 320.550 ms  
Loss rate: 2.59%  
-- Flow 1:  
Average throughput: 56.80 Mbit/s  
95th percentile per-packet one-way delay: 348.651 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 39.32 Mbit/s  
95th percentile per-packet one-way delay: 268.055 ms  
Loss rate: 4.60%  
-- Flow 3:  
Average throughput: 29.92 Mbit/s  
95th percentile per-packet one-way delay: 290.541 ms  
Loss rate: 5.72%

Run 3: Report of FillP — Data Link

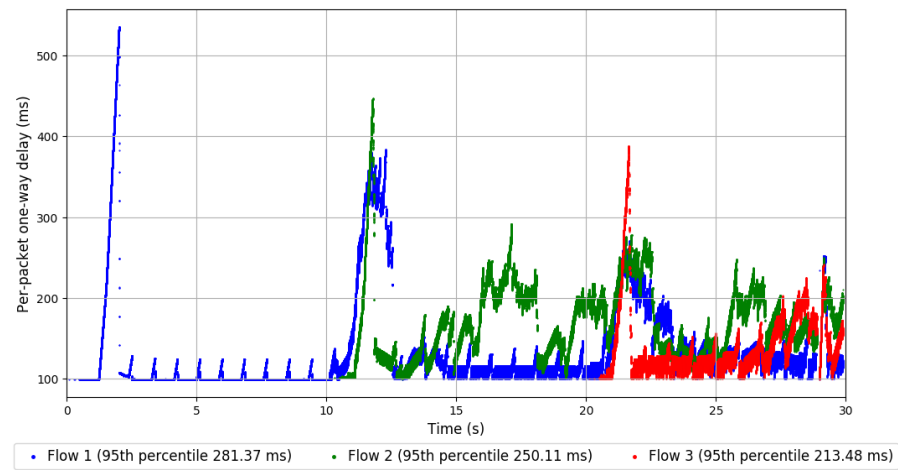
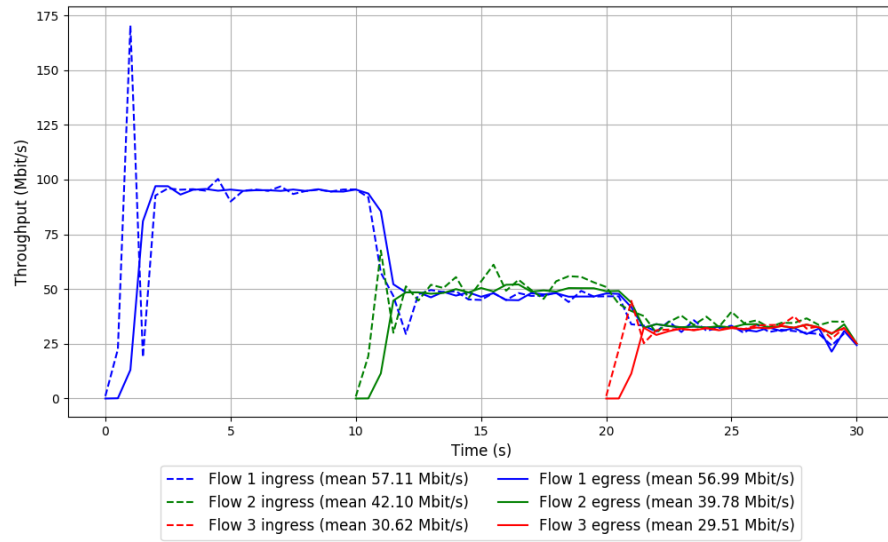


Run 4: Statistics of FillP

Start at: 2019-08-27 13:01:26  
End at: 2019-08-27 13:01:56  
Local clock offset: 0.593 ms  
Remote clock offset: -6.662 ms

# Below is generated by plot.py at 2019-08-27 14:06:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.09 Mbit/s  
95th percentile per-packet one-way delay: 256.990 ms  
Loss rate: 2.86%  
-- Flow 1:  
Average throughput: 56.99 Mbit/s  
95th percentile per-packet one-way delay: 281.367 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 39.78 Mbit/s  
95th percentile per-packet one-way delay: 250.114 ms  
Loss rate: 6.21%  
-- Flow 3:  
Average throughput: 29.51 Mbit/s  
95th percentile per-packet one-way delay: 213.479 ms  
Loss rate: 5.29%

#### Run 4: Report of FillP — Data Link

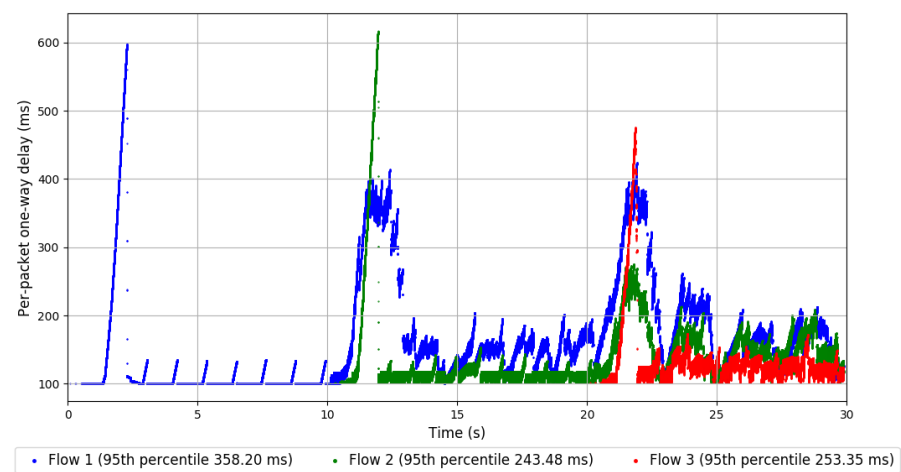
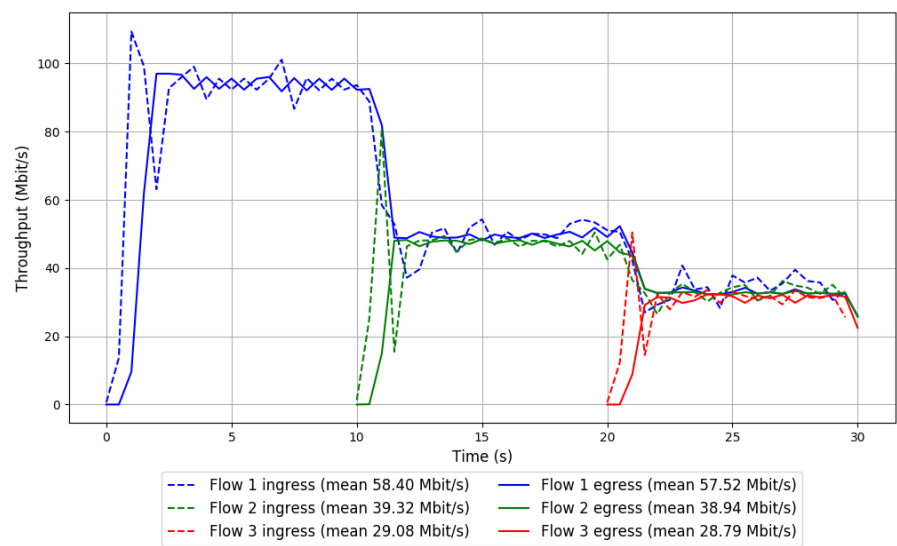


Run 5: Statistics of FillP

Start at: 2019-08-27 13:32:24  
End at: 2019-08-27 13:32:54  
Local clock offset: 0.526 ms  
Remote clock offset: -6.479 ms

# Below is generated by plot.py at 2019-08-27 14:06:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.82 Mbit/s  
95th percentile per-packet one-way delay: 342.298 ms  
Loss rate: 2.04%  
-- Flow 1:  
Average throughput: 57.52 Mbit/s  
95th percentile per-packet one-way delay: 358.198 ms  
Loss rate: 2.08%  
-- Flow 2:  
Average throughput: 38.94 Mbit/s  
95th percentile per-packet one-way delay: 243.479 ms  
Loss rate: 1.77%  
-- Flow 3:  
Average throughput: 28.79 Mbit/s  
95th percentile per-packet one-way delay: 253.350 ms  
Loss rate: 2.55%

Run 5: Report of FillP — Data Link



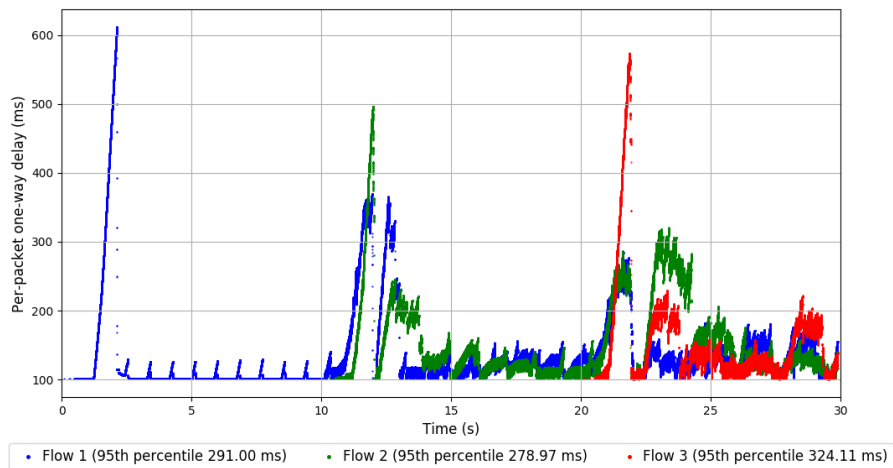
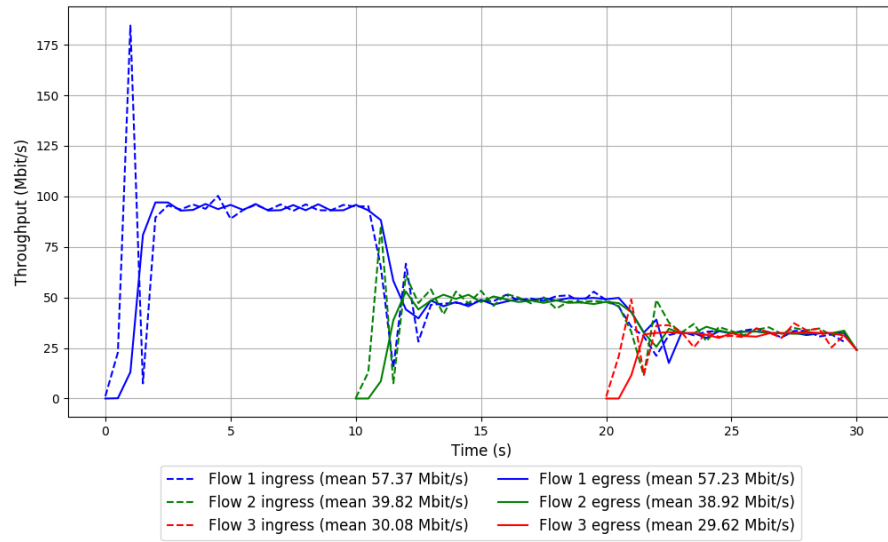


Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 11:41:36  
End at: 2019-08-27 11:42:06  
Local clock offset: -0.353 ms  
Remote clock offset: -7.925 ms

# Below is generated by plot.py at 2019-08-27 14:06:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.78 Mbit/s  
95th percentile per-packet one-way delay: 284.803 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 57.23 Mbit/s  
95th percentile per-packet one-way delay: 291.004 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 38.92 Mbit/s  
95th percentile per-packet one-way delay: 278.974 ms  
Loss rate: 2.99%  
-- Flow 3:  
Average throughput: 29.62 Mbit/s  
95th percentile per-packet one-way delay: 324.113 ms  
Loss rate: 3.25%

# Run 1: Report of FillP-Sheep — Data Link

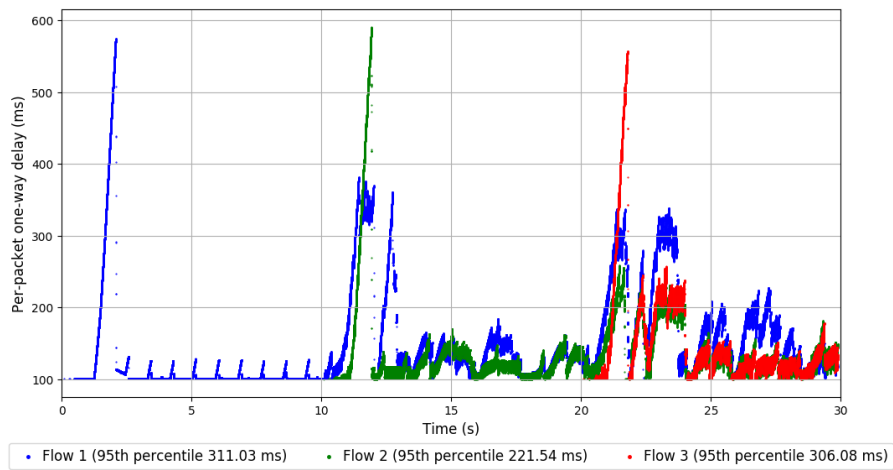
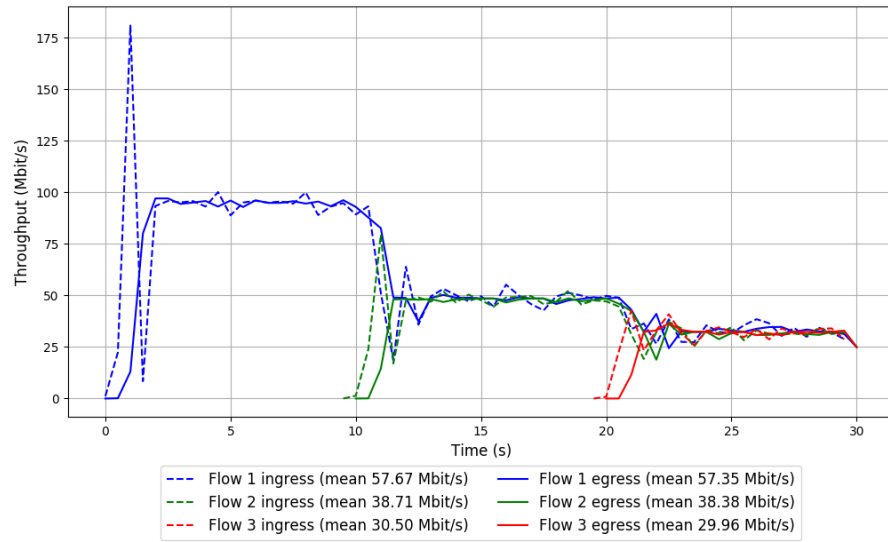


Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 12:12:32  
End at: 2019-08-27 12:13:02  
Local clock offset: 0.406 ms  
Remote clock offset: -5.329 ms

# Below is generated by plot.py at 2019-08-27 14:07:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.69 Mbit/s  
95th percentile per-packet one-way delay: 298.378 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 57.35 Mbit/s  
95th percentile per-packet one-way delay: 311.032 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 38.38 Mbit/s  
95th percentile per-packet one-way delay: 221.538 ms  
Loss rate: 1.69%  
-- Flow 3:  
Average throughput: 29.96 Mbit/s  
95th percentile per-packet one-way delay: 306.083 ms  
Loss rate: 3.29%

## Run 2: Report of FillP-Sheep — Data Link

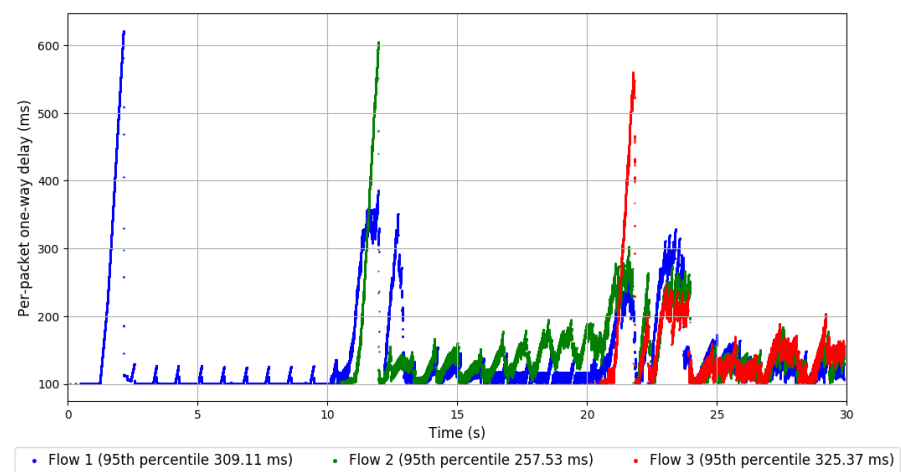
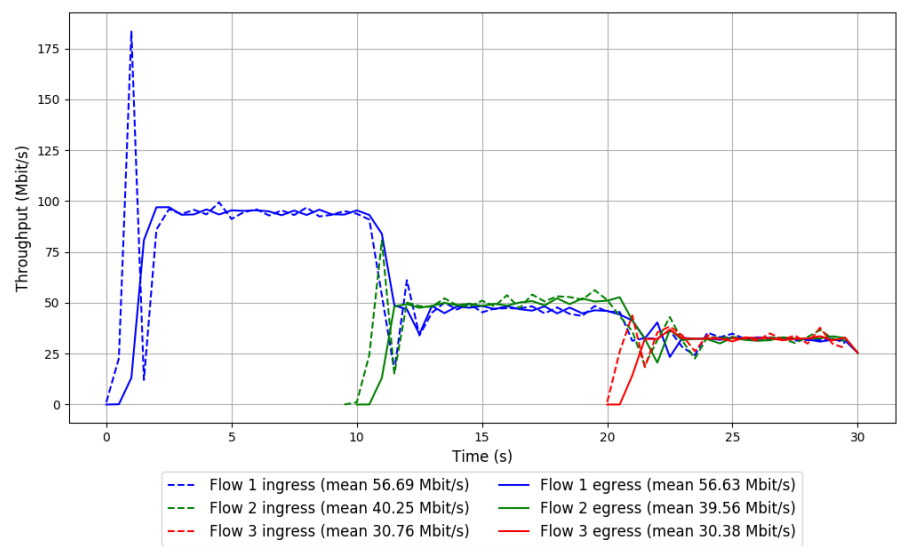


Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 12:43:29  
End at: 2019-08-27 12:43:59  
Local clock offset: -0.223 ms  
Remote clock offset: -7.433 ms

# Below is generated by plot.py at 2019-08-27 14:07:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.89 Mbit/s  
95th percentile per-packet one-way delay: 289.912 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 56.63 Mbit/s  
95th percentile per-packet one-way delay: 309.112 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 39.56 Mbit/s  
95th percentile per-packet one-way delay: 257.527 ms  
Loss rate: 2.54%  
-- Flow 3:  
Average throughput: 30.38 Mbit/s  
95th percentile per-packet one-way delay: 325.369 ms  
Loss rate: 2.83%

Run 3: Report of FillP-Sheep — Data Link

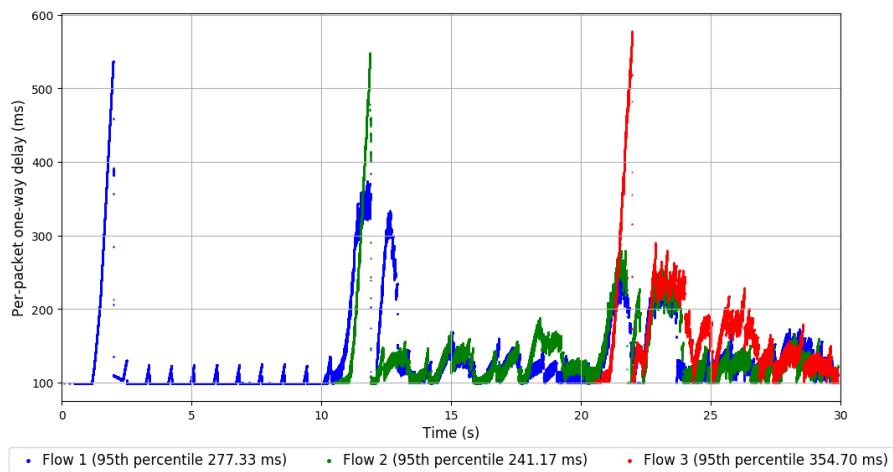
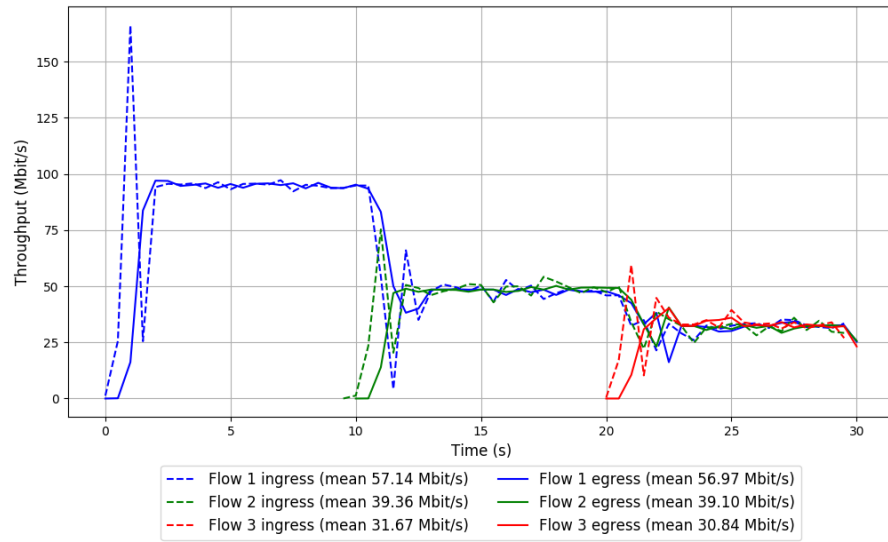


Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 13:14:26  
End at: 2019-08-27 13:14:56  
Local clock offset: 0.643 ms  
Remote clock offset: -6.189 ms

# Below is generated by plot.py at 2019-08-27 14:07:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.07 Mbit/s  
95th percentile per-packet one-way delay: 264.307 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 56.97 Mbit/s  
95th percentile per-packet one-way delay: 277.329 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 39.10 Mbit/s  
95th percentile per-packet one-way delay: 241.171 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 30.84 Mbit/s  
95th percentile per-packet one-way delay: 354.703 ms  
Loss rate: 4.27%

#### Run 4: Report of FillP-Sheep — Data Link



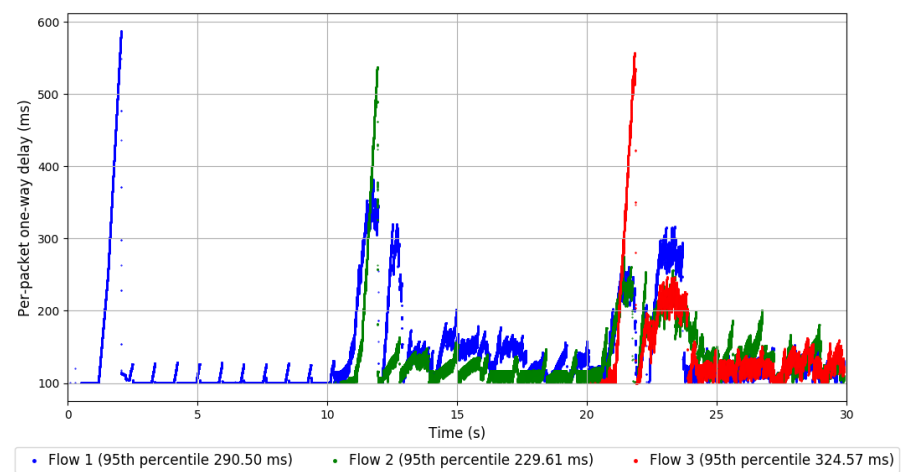
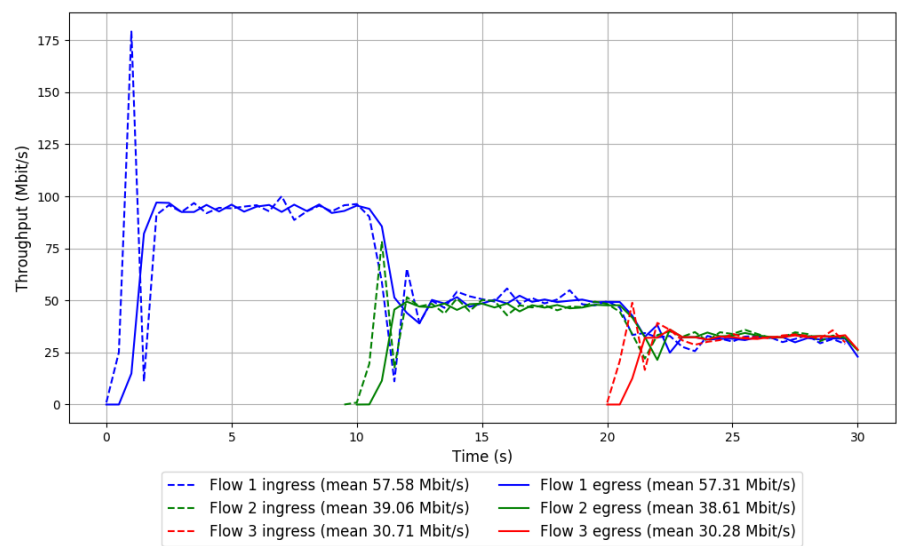


Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 13:45:24  
End at: 2019-08-27 13:45:54  
Local clock offset: 0.53 ms  
Remote clock offset: -5.173 ms

# Below is generated by plot.py at 2019-08-27 14:07:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.89 Mbit/s  
95th percentile per-packet one-way delay: 278.312 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 57.31 Mbit/s  
95th percentile per-packet one-way delay: 290.504 ms  
Loss rate: 1.05%  
-- Flow 2:  
Average throughput: 38.61 Mbit/s  
95th percentile per-packet one-way delay: 229.613 ms  
Loss rate: 1.97%  
-- Flow 3:  
Average throughput: 30.28 Mbit/s  
95th percentile per-packet one-way delay: 324.569 ms  
Loss rate: 2.98%

Run 5: Report of FillP-Sheep — Data Link

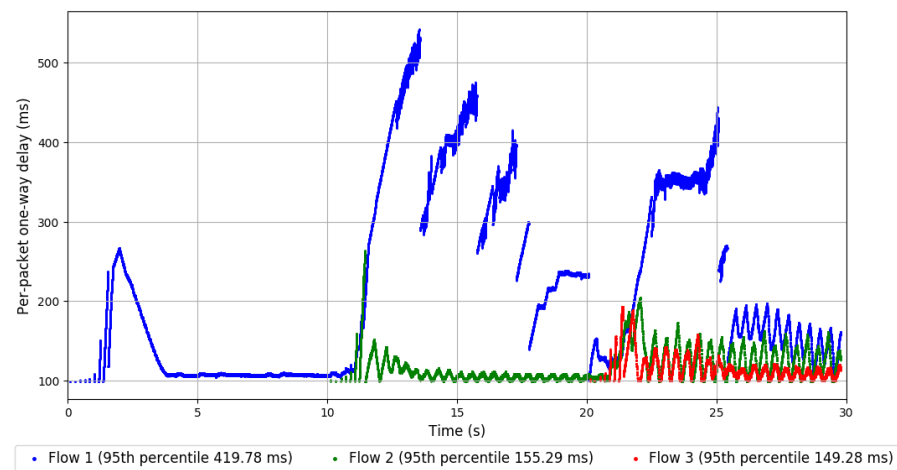
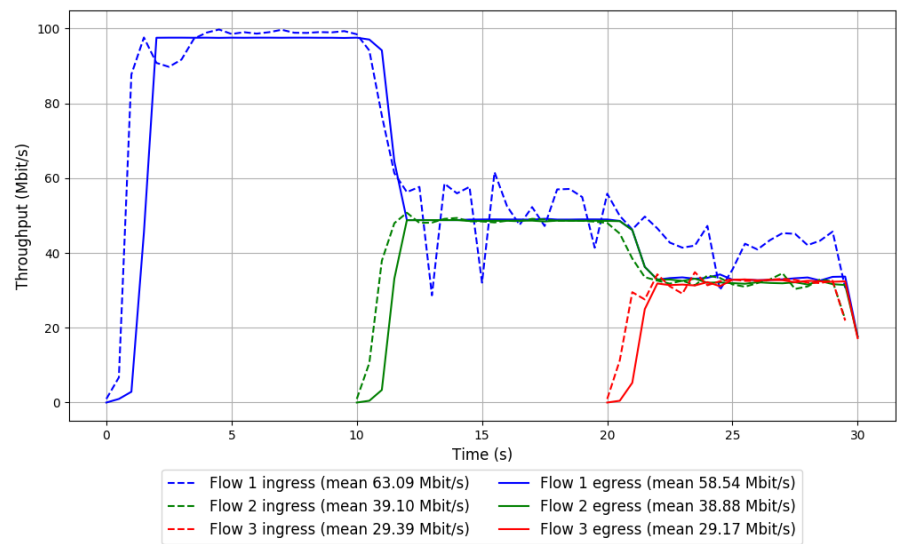


Run 1: Statistics of Indigo

Start at: 2019-08-27 11:55:44  
End at: 2019-08-27 11:56:14  
Local clock offset: -0.402 ms  
Remote clock offset: -4.684 ms

# Below is generated by plot.py at 2019-08-27 14:07:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.75 Mbit/s  
95th percentile per-packet one-way delay: 387.502 ms  
Loss rate: 5.58%  
-- Flow 1:  
Average throughput: 58.54 Mbit/s  
95th percentile per-packet one-way delay: 419.782 ms  
Loss rate: 7.75%  
-- Flow 2:  
Average throughput: 38.88 Mbit/s  
95th percentile per-packet one-way delay: 155.289 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 29.17 Mbit/s  
95th percentile per-packet one-way delay: 149.284 ms  
Loss rate: 2.50%

Run 1: Report of Indigo — Data Link

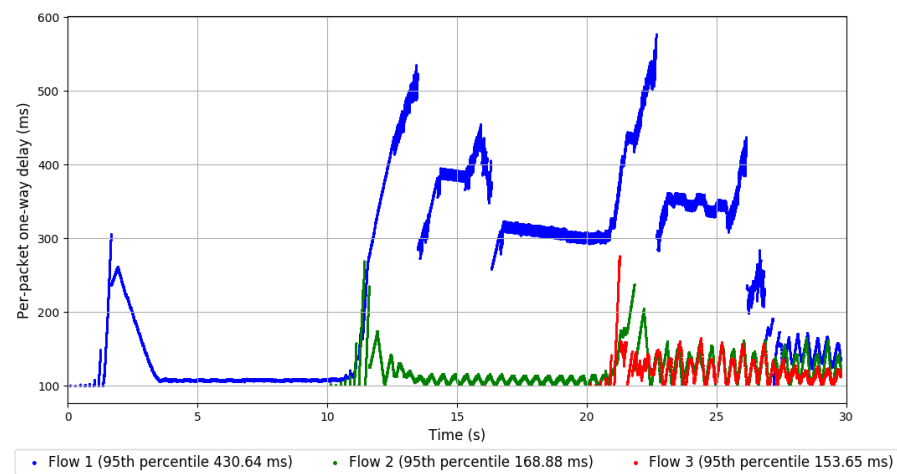
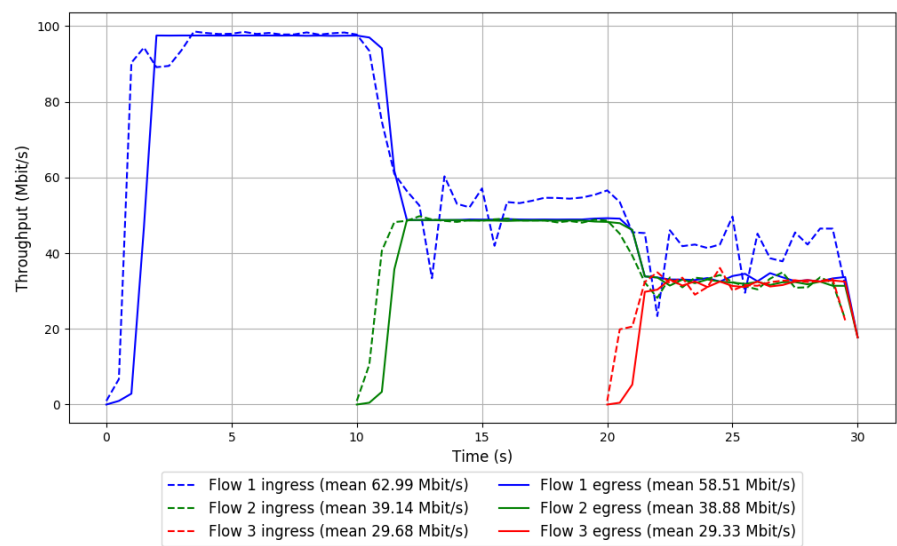


Run 2: Statistics of Indigo

Start at: 2019-08-27 12:26:41  
End at: 2019-08-27 12:27:11  
Local clock offset: 0.43 ms  
Remote clock offset: -6.057 ms

# Below is generated by plot.py at 2019-08-27 14:07:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.77 Mbit/s  
95th percentile per-packet one-way delay: 394.491 ms  
Loss rate: 5.56%  
-- Flow 1:  
Average throughput: 58.51 Mbit/s  
95th percentile per-packet one-way delay: 430.636 ms  
Loss rate: 7.64%  
-- Flow 2:  
Average throughput: 38.88 Mbit/s  
95th percentile per-packet one-way delay: 168.883 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 29.33 Mbit/s  
95th percentile per-packet one-way delay: 153.647 ms  
Loss rate: 2.91%

Run 2: Report of Indigo — Data Link

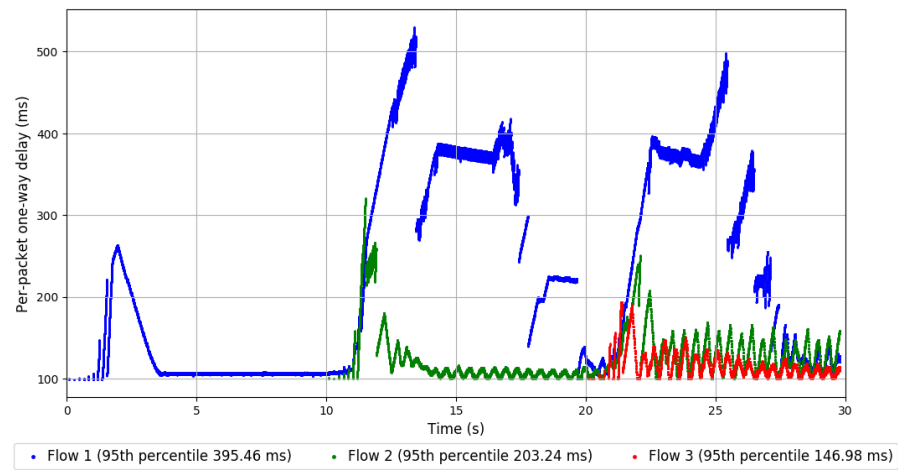
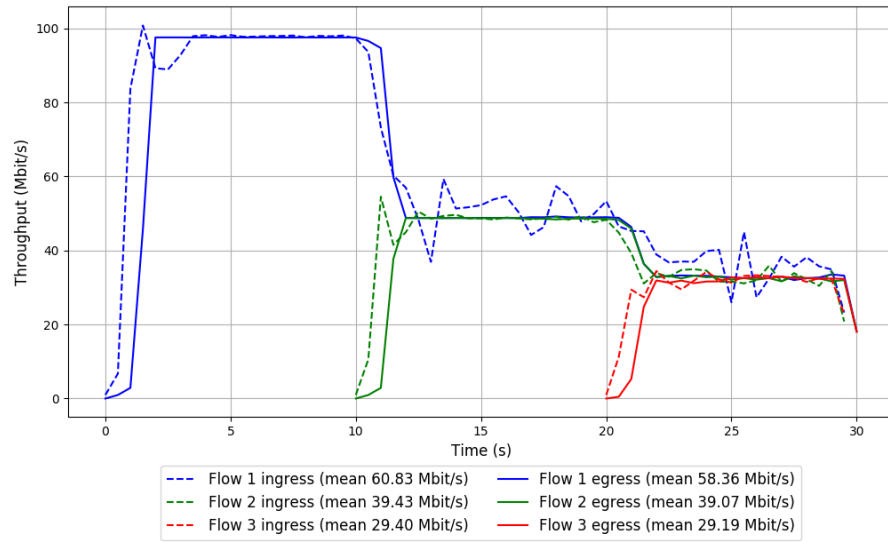


Run 3: Statistics of Indigo

Start at: 2019-08-27 12:57:38  
End at: 2019-08-27 12:58:08  
Local clock offset: -0.18 ms  
Remote clock offset: -6.015 ms

# Below is generated by plot.py at 2019-08-27 14:08:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.76 Mbit/s  
95th percentile per-packet one-way delay: 382.271 ms  
Loss rate: 3.62%  
-- Flow 1:  
Average throughput: 58.36 Mbit/s  
95th percentile per-packet one-way delay: 395.465 ms  
Loss rate: 4.61%  
-- Flow 2:  
Average throughput: 39.07 Mbit/s  
95th percentile per-packet one-way delay: 203.240 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 29.19 Mbit/s  
95th percentile per-packet one-way delay: 146.984 ms  
Loss rate: 2.48%

### Run 3: Report of Indigo — Data Link



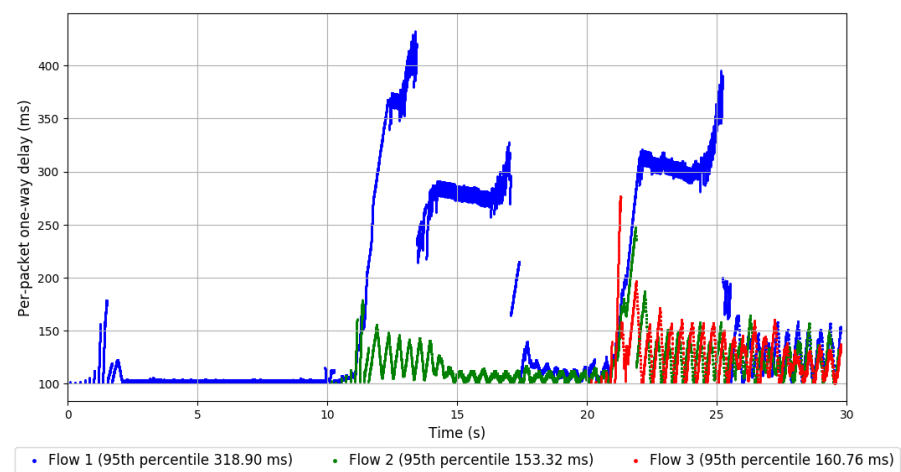
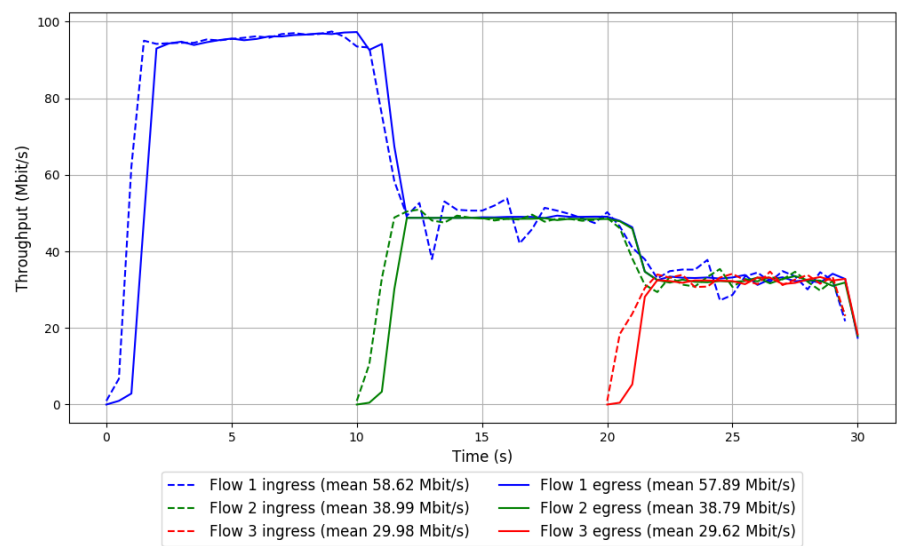


Run 4: Statistics of Indigo

Start at: 2019-08-27 13:28:35  
End at: 2019-08-27 13:29:05  
Local clock offset: -0.197 ms  
Remote clock offset: -7.098 ms

# Below is generated by plot.py at 2019-08-27 14:08:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.15 Mbit/s  
95th percentile per-packet one-way delay: 306.485 ms  
Loss rate: 1.80%  
-- Flow 1:  
Average throughput: 57.89 Mbit/s  
95th percentile per-packet one-way delay: 318.896 ms  
Loss rate: 1.80%  
-- Flow 2:  
Average throughput: 38.79 Mbit/s  
95th percentile per-packet one-way delay: 153.321 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 29.62 Mbit/s  
95th percentile per-packet one-way delay: 160.764 ms  
Loss rate: 2.93%

Run 4: Report of Indigo — Data Link

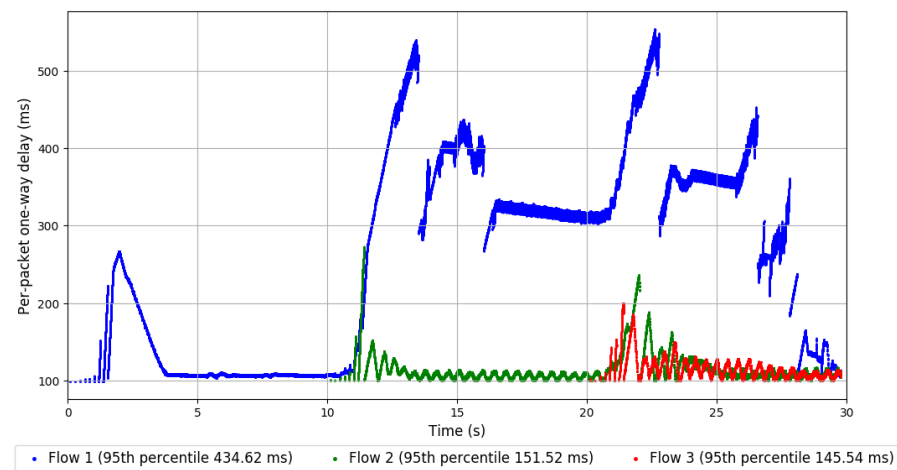
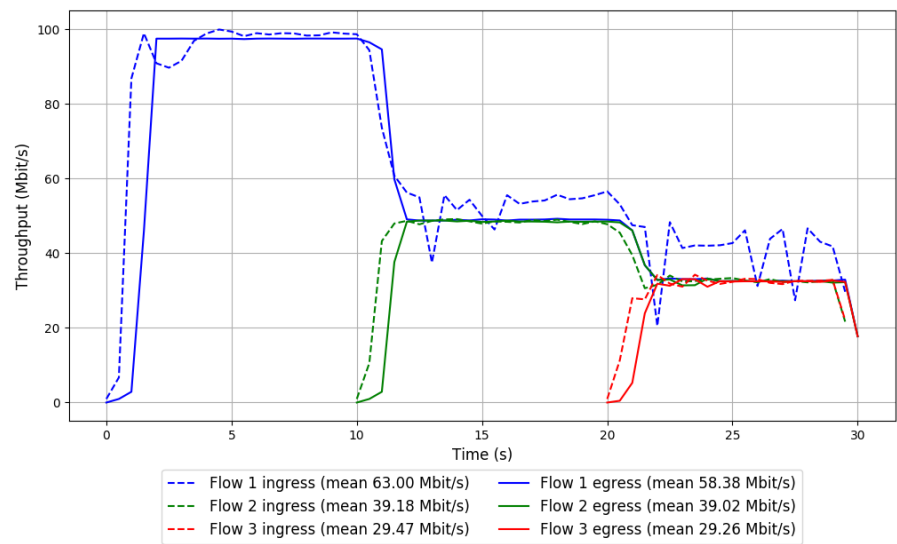


Run 5: Statistics of Indigo

Start at: 2019-08-27 13:59:55  
End at: 2019-08-27 14:00:25  
Local clock offset: -0.285 ms  
Remote clock offset: -6.367 ms

# Below is generated by plot.py at 2019-08-27 14:08:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.74 Mbit/s  
95th percentile per-packet one-way delay: 406.641 ms  
Loss rate: 5.60%  
-- Flow 1:  
Average throughput: 58.38 Mbit/s  
95th percentile per-packet one-way delay: 434.619 ms  
Loss rate: 7.87%  
-- Flow 2:  
Average throughput: 39.02 Mbit/s  
95th percentile per-packet one-way delay: 151.520 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 29.26 Mbit/s  
95th percentile per-packet one-way delay: 145.539 ms  
Loss rate: 2.45%

Run 5: Report of Indigo — Data Link

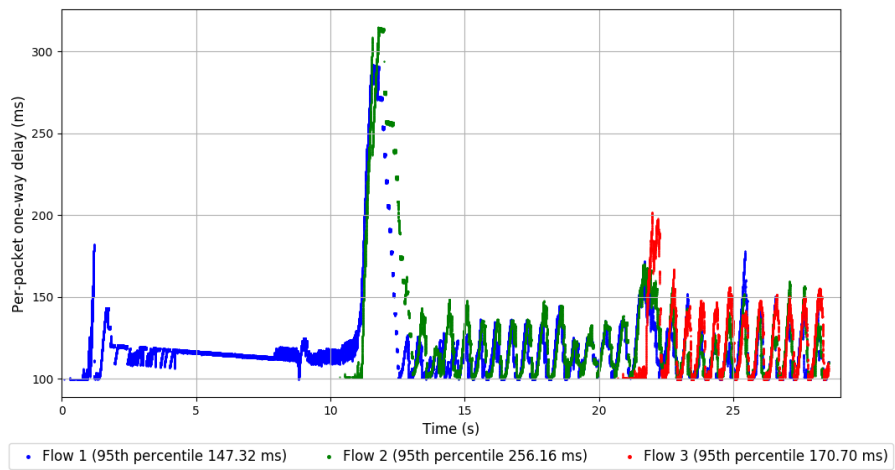
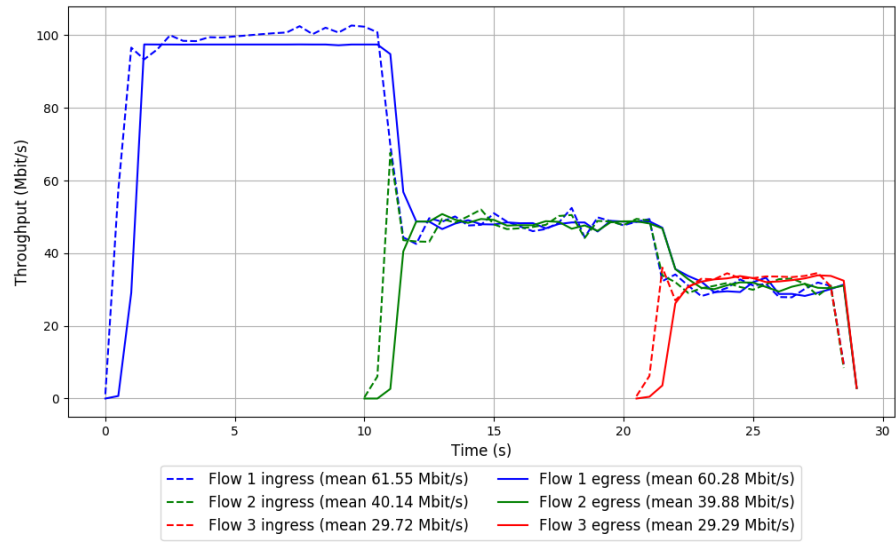


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 11:37:41  
End at: 2019-08-27 11:38:11  
Local clock offset: 0.41 ms  
Remote clock offset: -7.826 ms

# Below is generated by plot.py at 2019-08-27 14:08:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.86 Mbit/s  
95th percentile per-packet one-way delay: 173.741 ms  
Loss rate: 2.44%  
-- Flow 1:  
Average throughput: 60.28 Mbit/s  
95th percentile per-packet one-way delay: 147.316 ms  
Loss rate: 2.64%  
-- Flow 2:  
Average throughput: 39.88 Mbit/s  
95th percentile per-packet one-way delay: 256.157 ms  
Loss rate: 1.60%  
-- Flow 3:  
Average throughput: 29.29 Mbit/s  
95th percentile per-packet one-way delay: 170.702 ms  
Loss rate: 3.57%

# Run 1: Report of Indigo-MusesC3 — Data Link

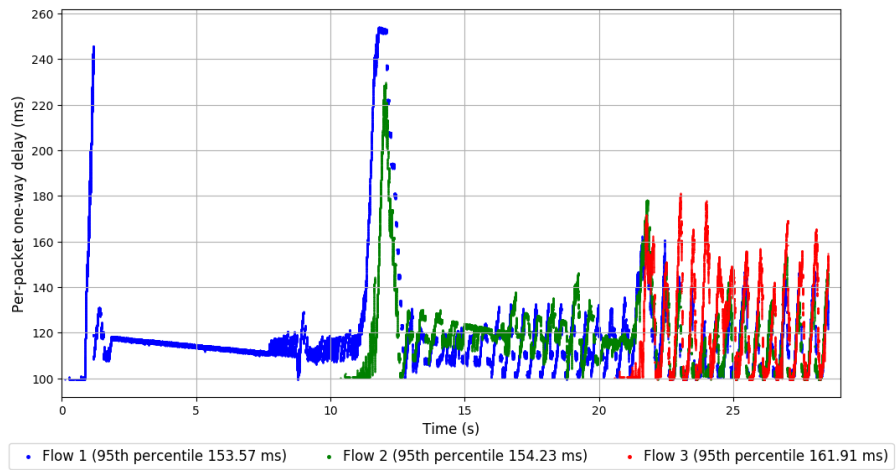
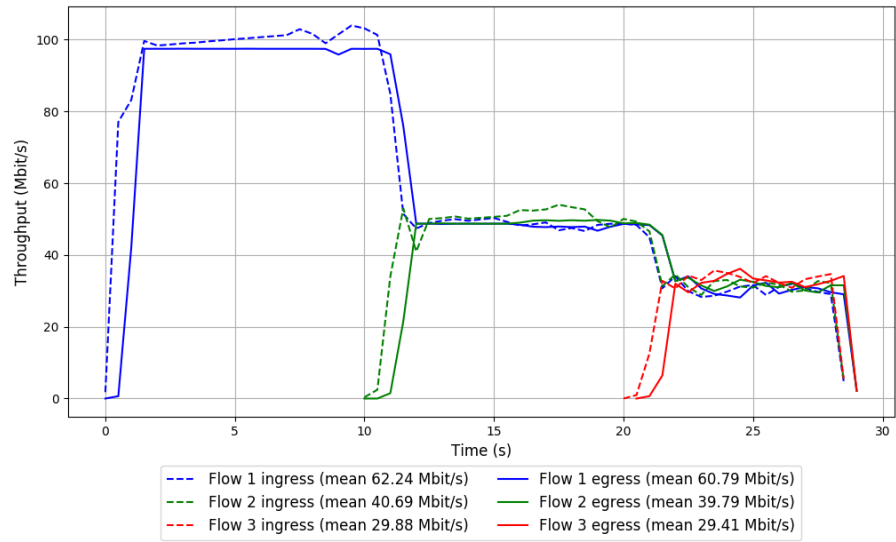


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 12:08:37  
End at: 2019-08-27 12:09:07  
Local clock offset: 0.472 ms  
Remote clock offset: -3.936 ms

# Below is generated by plot.py at 2019-08-27 14:08:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.43 Mbit/s  
95th percentile per-packet one-way delay: 156.190 ms  
Loss rate: 3.04%  
-- Flow 1:  
Average throughput: 60.79 Mbit/s  
95th percentile per-packet one-way delay: 153.566 ms  
Loss rate: 2.92%  
-- Flow 2:  
Average throughput: 39.79 Mbit/s  
95th percentile per-packet one-way delay: 154.230 ms  
Loss rate: 3.15%  
-- Flow 3:  
Average throughput: 29.41 Mbit/s  
95th percentile per-packet one-way delay: 161.906 ms  
Loss rate: 3.67%

## Run 2: Report of Indigo-MusesC3 — Data Link



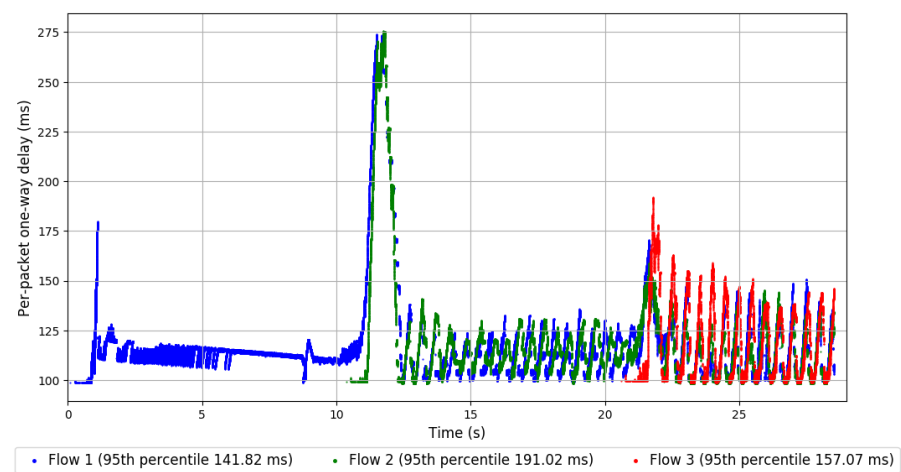
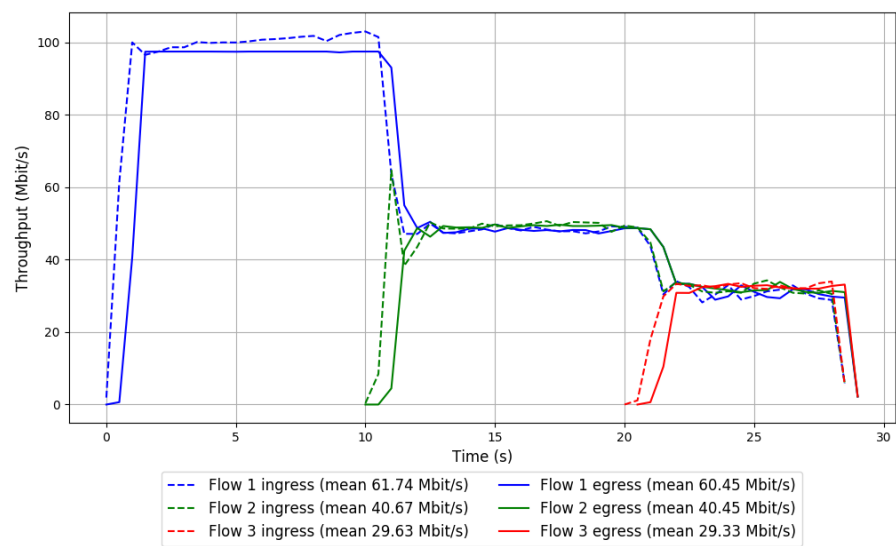


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 12:39:34  
End at: 2019-08-27 12:40:04  
Local clock offset: -0.242 ms  
Remote clock offset: -4.837 ms

# Below is generated by plot.py at 2019-08-27 14:08:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.49 Mbit/s  
95th percentile per-packet one-way delay: 150.637 ms  
Loss rate: 2.40%  
-- Flow 1:  
Average throughput: 60.45 Mbit/s  
95th percentile per-packet one-way delay: 141.819 ms  
Loss rate: 2.67%  
-- Flow 2:  
Average throughput: 40.45 Mbit/s  
95th percentile per-packet one-way delay: 191.019 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 29.33 Mbit/s  
95th percentile per-packet one-way delay: 157.072 ms  
Loss rate: 3.13%

Run 3: Report of Indigo-MusesC3 — Data Link

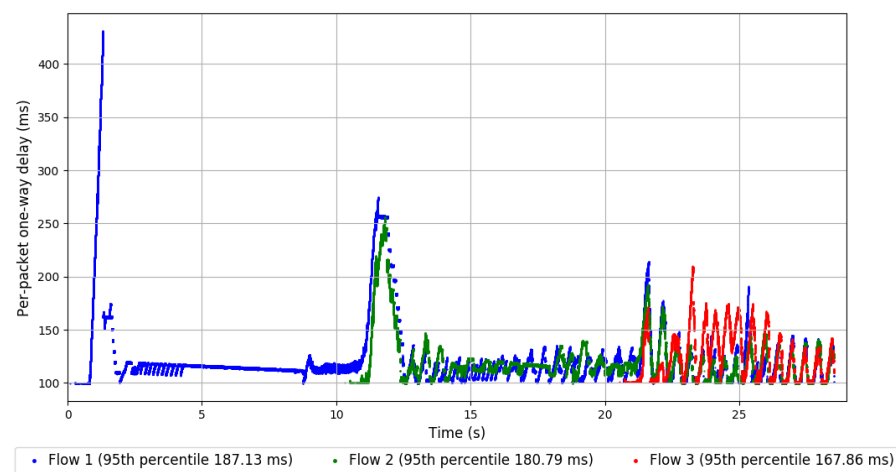
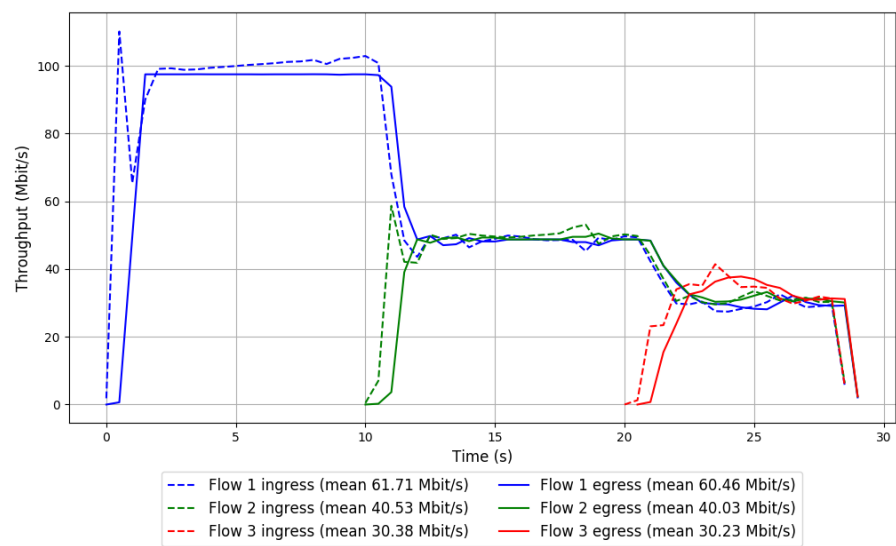


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 13:10:31  
End at: 2019-08-27 13:11:01  
Local clock offset: -0.158 ms  
Remote clock offset: -7.672 ms

# Below is generated by plot.py at 2019-08-27 14:08:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.60 Mbit/s  
95th percentile per-packet one-way delay: 177.097 ms  
Loss rate: 2.49%  
-- Flow 1:  
Average throughput: 60.46 Mbit/s  
95th percentile per-packet one-way delay: 187.128 ms  
Loss rate: 2.61%  
-- Flow 2:  
Average throughput: 40.03 Mbit/s  
95th percentile per-packet one-way delay: 180.794 ms  
Loss rate: 2.15%  
-- Flow 3:  
Average throughput: 30.23 Mbit/s  
95th percentile per-packet one-way delay: 167.863 ms  
Loss rate: 2.59%

Run 4: Report of Indigo-MusesC3 — Data Link

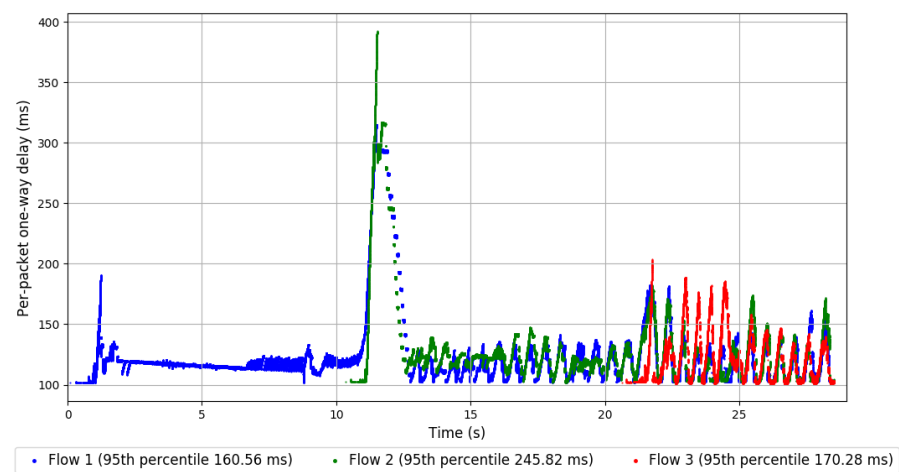
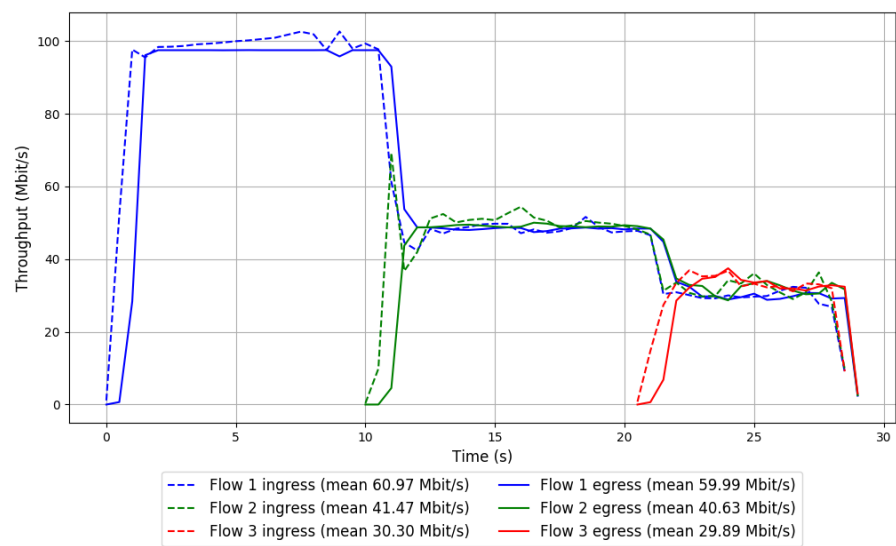


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 13:41:28  
End at: 2019-08-27 13:41:58  
Local clock offset: 0.526 ms  
Remote clock offset: -6.764 ms

# Below is generated by plot.py at 2019-08-27 14:08:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.27 Mbit/s  
95th percentile per-packet one-way delay: 172.230 ms  
Loss rate: 2.52%  
-- Flow 1:  
Average throughput: 59.99 Mbit/s  
95th percentile per-packet one-way delay: 160.560 ms  
Loss rate: 2.20%  
-- Flow 2:  
Average throughput: 40.63 Mbit/s  
95th percentile per-packet one-way delay: 245.825 ms  
Loss rate: 2.95%  
-- Flow 3:  
Average throughput: 29.89 Mbit/s  
95th percentile per-packet one-way delay: 170.282 ms  
Loss rate: 3.44%

Run 5: Report of Indigo-MusesC3 — Data Link

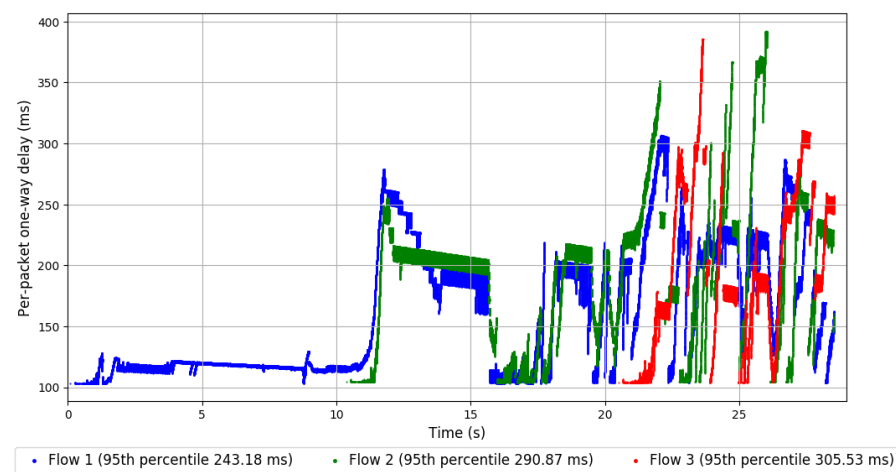
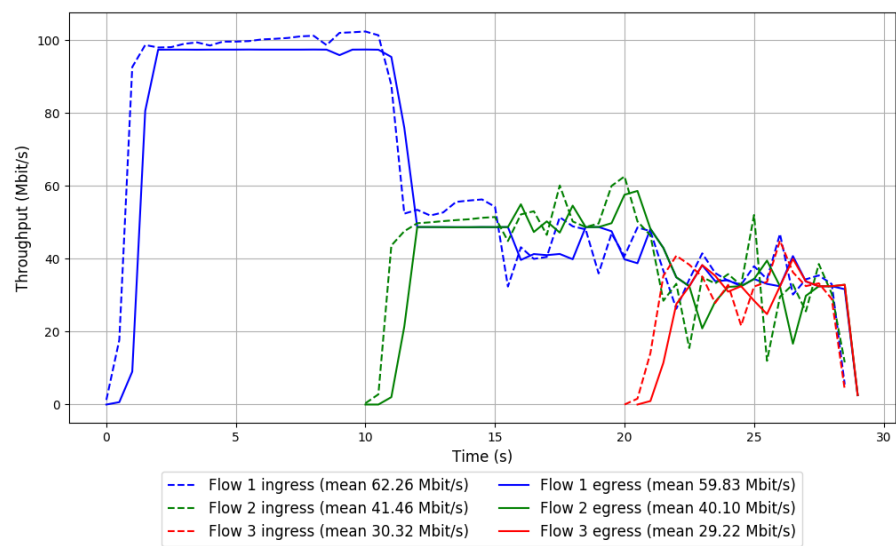


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 11:35:06  
End at: 2019-08-27 11:35:36  
Local clock offset: -0.366 ms  
Remote clock offset: -12.642 ms

# Below is generated by plot.py at 2019-08-27 14:09:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.70 Mbit/s  
95th percentile per-packet one-way delay: 263.604 ms  
Loss rate: 4.37%  
-- Flow 1:  
Average throughput: 59.83 Mbit/s  
95th percentile per-packet one-way delay: 243.182 ms  
Loss rate: 4.37%  
-- Flow 2:  
Average throughput: 40.10 Mbit/s  
95th percentile per-packet one-way delay: 290.872 ms  
Loss rate: 4.17%  
-- Flow 3:  
Average throughput: 29.22 Mbit/s  
95th percentile per-packet one-way delay: 305.532 ms  
Loss rate: 4.96%

Run 1: Report of Indigo-MusesC5 — Data Link



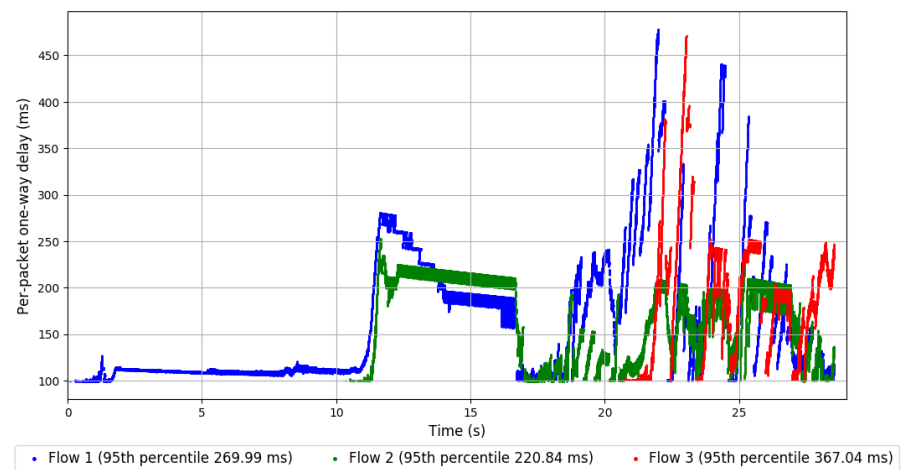
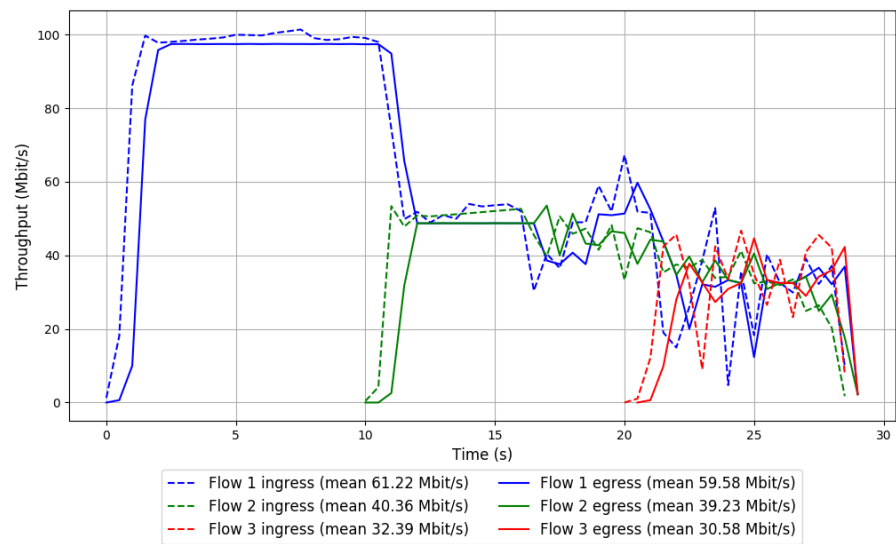


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 12:06:02  
End at: 2019-08-27 12:06:32  
Local clock offset: -0.324 ms  
Remote clock offset: -4.582 ms

# Below is generated by plot.py at 2019-08-27 14:09:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.23 Mbit/s  
95th percentile per-packet one-way delay: 260.509 ms  
Loss rate: 3.69%  
-- Flow 1:  
Average throughput: 59.58 Mbit/s  
95th percentile per-packet one-way delay: 269.993 ms  
Loss rate: 3.25%  
-- Flow 2:  
Average throughput: 39.23 Mbit/s  
95th percentile per-packet one-way delay: 220.844 ms  
Loss rate: 3.38%  
-- Flow 3:  
Average throughput: 30.58 Mbit/s  
95th percentile per-packet one-way delay: 367.036 ms  
Loss rate: 7.45%

Run 2: Report of Indigo-MusesC5 — Data Link

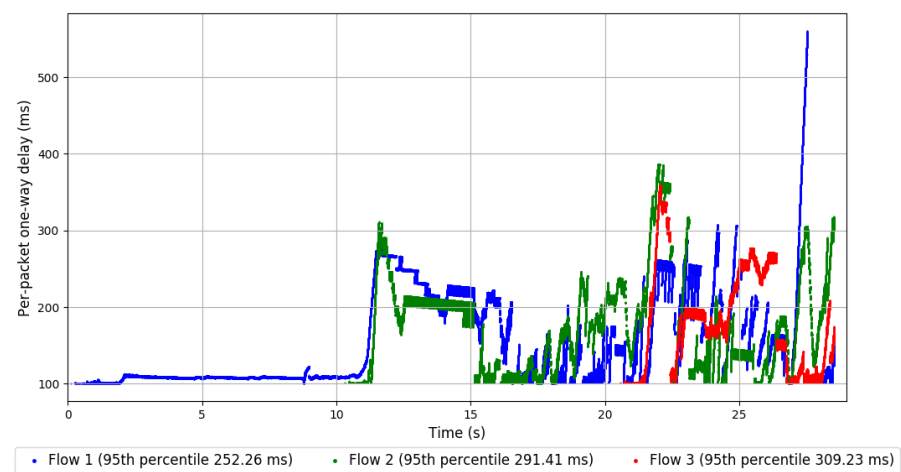
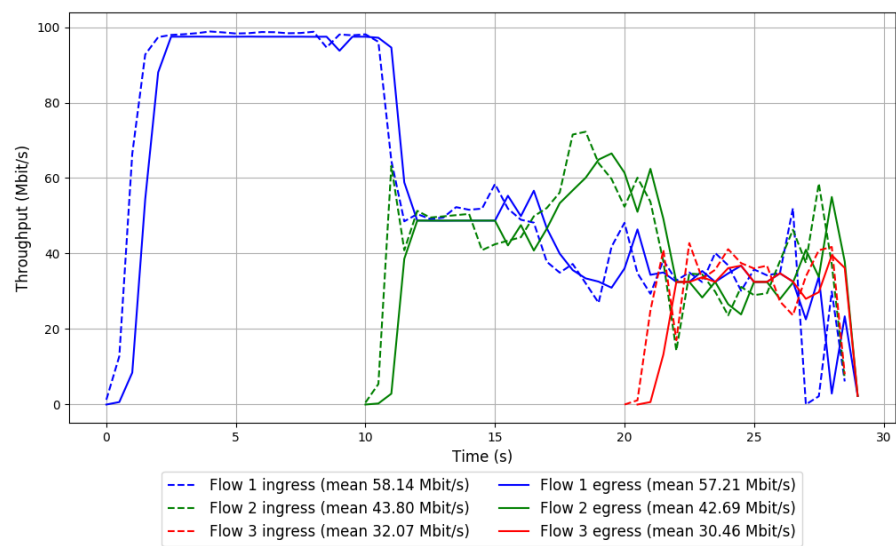


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 12:36:59  
End at: 2019-08-27 12:37:29  
Local clock offset: -0.306 ms  
Remote clock offset: -6.763 ms

# Below is generated by plot.py at 2019-08-27 14:09:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.14 Mbit/s  
95th percentile per-packet one-way delay: 267.377 ms  
Loss rate: 3.04%  
-- Flow 1:  
Average throughput: 57.21 Mbit/s  
95th percentile per-packet one-way delay: 252.258 ms  
Loss rate: 2.19%  
-- Flow 2:  
Average throughput: 42.69 Mbit/s  
95th percentile per-packet one-way delay: 291.413 ms  
Loss rate: 3.48%  
-- Flow 3:  
Average throughput: 30.46 Mbit/s  
95th percentile per-packet one-way delay: 309.229 ms  
Loss rate: 7.03%

Run 3: Report of Indigo-MusesC5 — Data Link

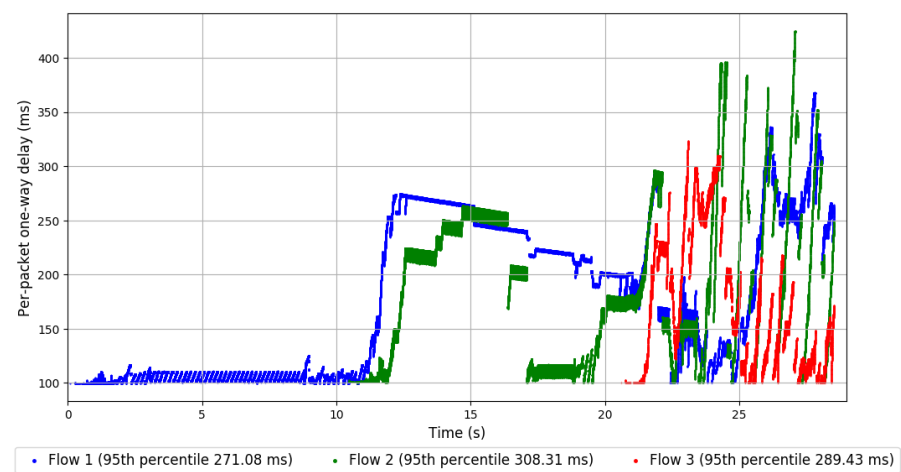
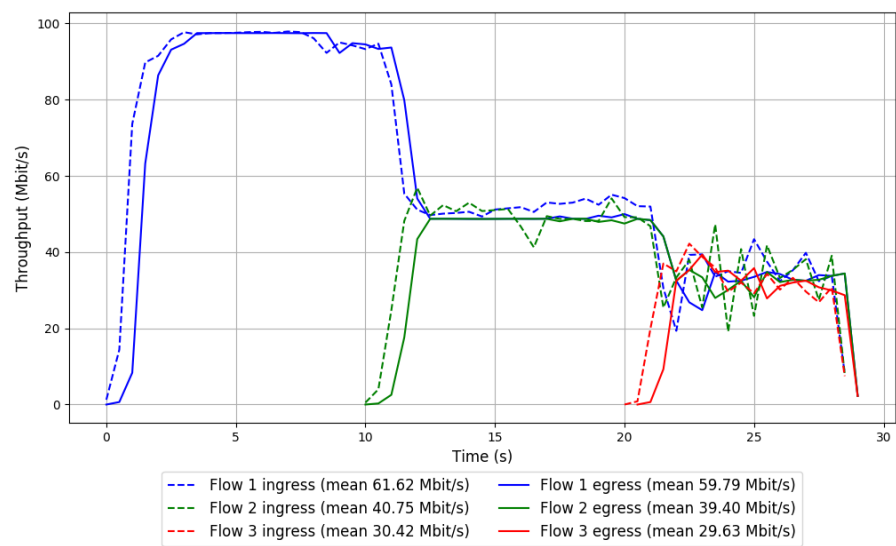


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 13:07:56  
End at: 2019-08-27 13:08:26  
Local clock offset: 0.573 ms  
Remote clock offset: -6.146 ms

# Below is generated by plot.py at 2019-08-27 14:09:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.32 Mbit/s  
95th percentile per-packet one-way delay: 274.550 ms  
Loss rate: 3.80%  
-- Flow 1:  
Average throughput: 59.79 Mbit/s  
95th percentile per-packet one-way delay: 271.083 ms  
Loss rate: 3.56%  
-- Flow 2:  
Average throughput: 39.40 Mbit/s  
95th percentile per-packet one-way delay: 308.305 ms  
Loss rate: 4.15%  
-- Flow 3:  
Average throughput: 29.63 Mbit/s  
95th percentile per-packet one-way delay: 289.433 ms  
Loss rate: 4.54%

Run 4: Report of Indigo-MusesC5 — Data Link

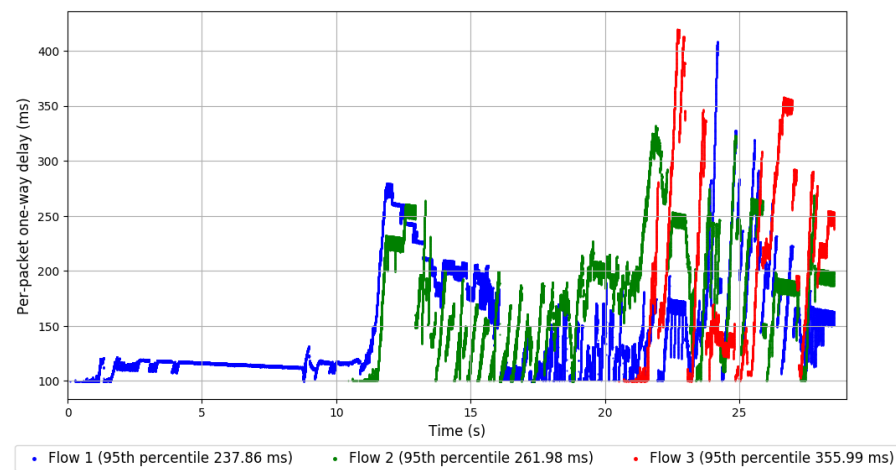
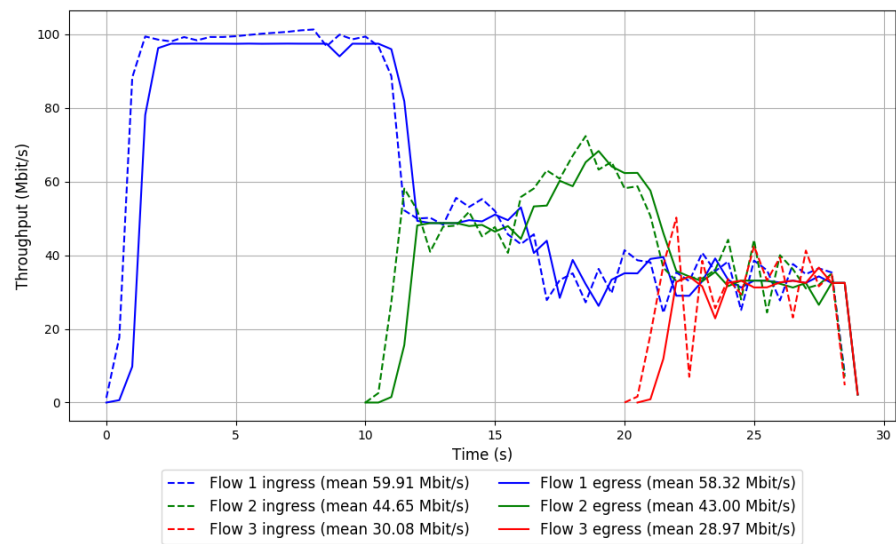


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 13:38:53  
End at: 2019-08-27 13:39:23  
Local clock offset: -0.304 ms  
Remote clock offset: -5.616 ms

# Below is generated by plot.py at 2019-08-27 14:09:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.86 Mbit/s  
95th percentile per-packet one-way delay: 261.898 ms  
Loss rate: 3.84%  
-- Flow 1:  
Average throughput: 58.32 Mbit/s  
95th percentile per-packet one-way delay: 237.864 ms  
Loss rate: 3.25%  
-- Flow 2:  
Average throughput: 43.00 Mbit/s  
95th percentile per-packet one-way delay: 261.980 ms  
Loss rate: 4.54%  
-- Flow 3:  
Average throughput: 28.97 Mbit/s  
95th percentile per-packet one-way delay: 355.990 ms  
Loss rate: 5.63%

Run 5: Report of Indigo-MusesC5 — Data Link



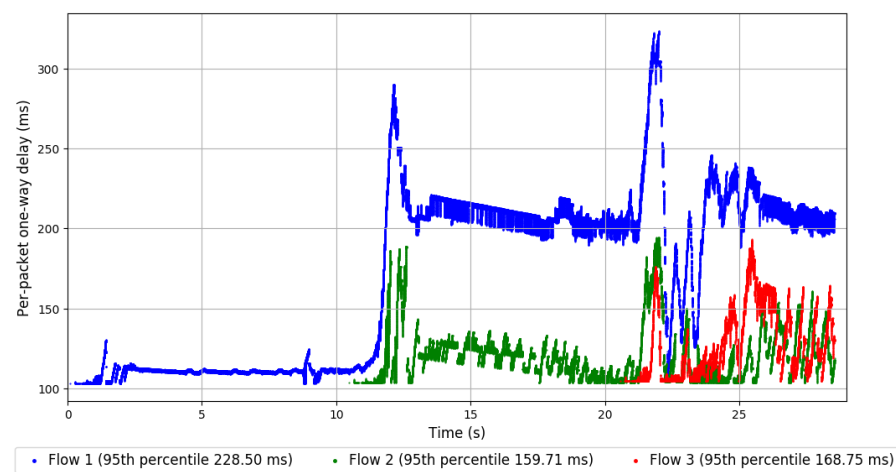
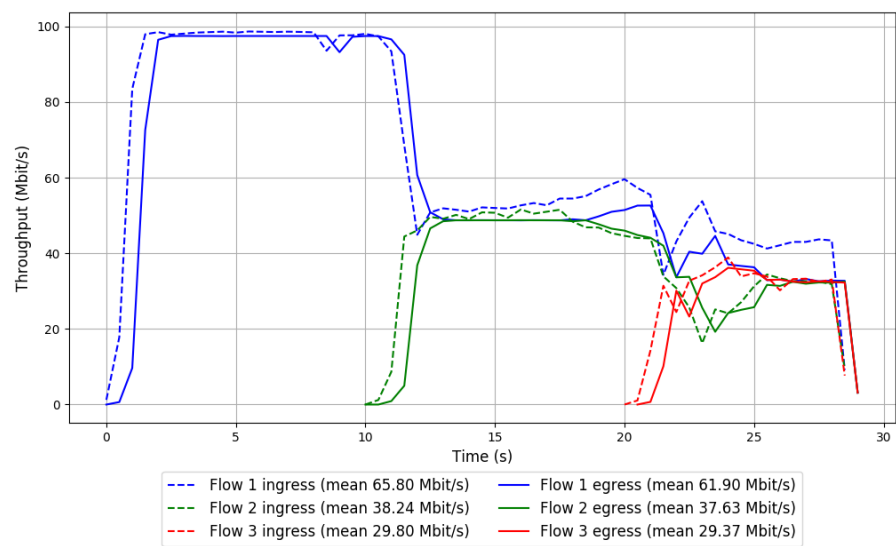


Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 11:48:04  
End at: 2019-08-27 11:48:34  
Local clock offset: 0.456 ms  
Remote clock offset: -9.014 ms

# Below is generated by plot.py at 2019-08-27 14:09:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.03 Mbit/s  
95th percentile per-packet one-way delay: 219.591 ms  
Loss rate: 5.25%  
-- Flow 1:  
Average throughput: 61.90 Mbit/s  
95th percentile per-packet one-way delay: 228.499 ms  
Loss rate: 6.48%  
-- Flow 2:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 159.709 ms  
Loss rate: 2.52%  
-- Flow 3:  
Average throughput: 29.37 Mbit/s  
95th percentile per-packet one-way delay: 168.752 ms  
Loss rate: 3.54%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 12:19:01

End at: 2019-08-27 12:19:31

Local clock offset: -0.285 ms

Remote clock offset: -4.73 ms

# Below is generated by plot.py at 2019-08-27 14:09:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.93 Mbit/s

95th percentile per-packet one-way delay: 217.146 ms

Loss rate: 5.70%

-- Flow 1:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 226.204 ms

Loss rate: 7.05%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 159.189 ms

Loss rate: 2.01%

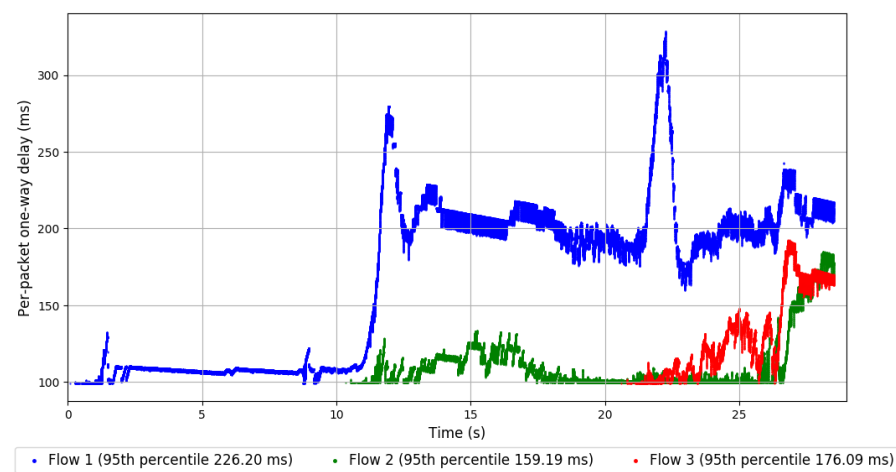
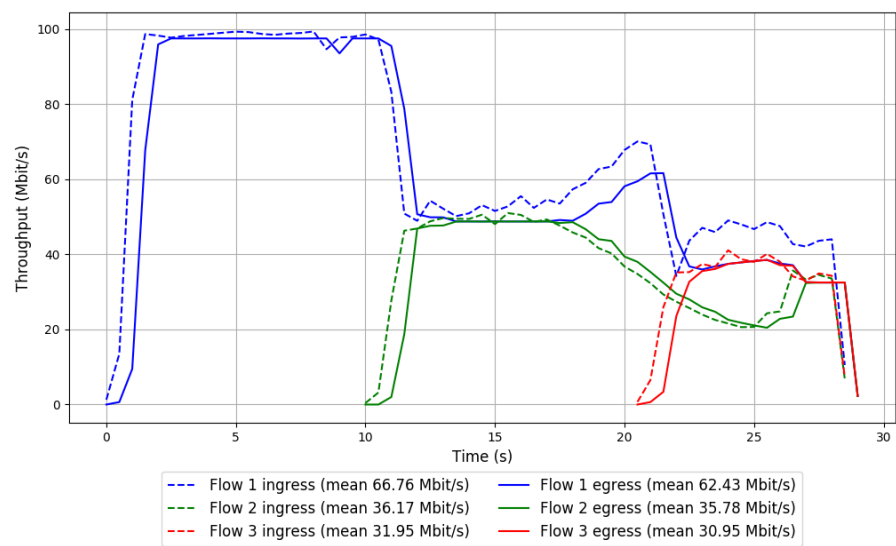
-- Flow 3:

Average throughput: 30.95 Mbit/s

95th percentile per-packet one-way delay: 176.087 ms

Loss rate: 5.19%

Run 2: Report of Indigo-MusesD — Data Link

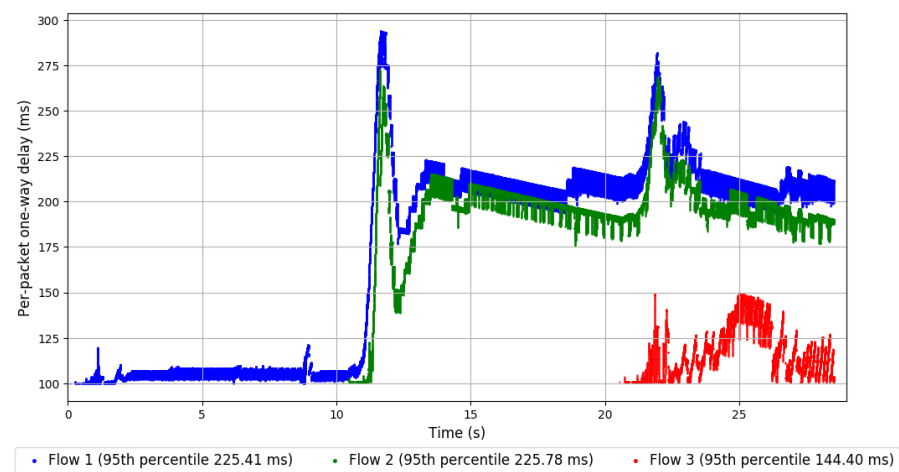
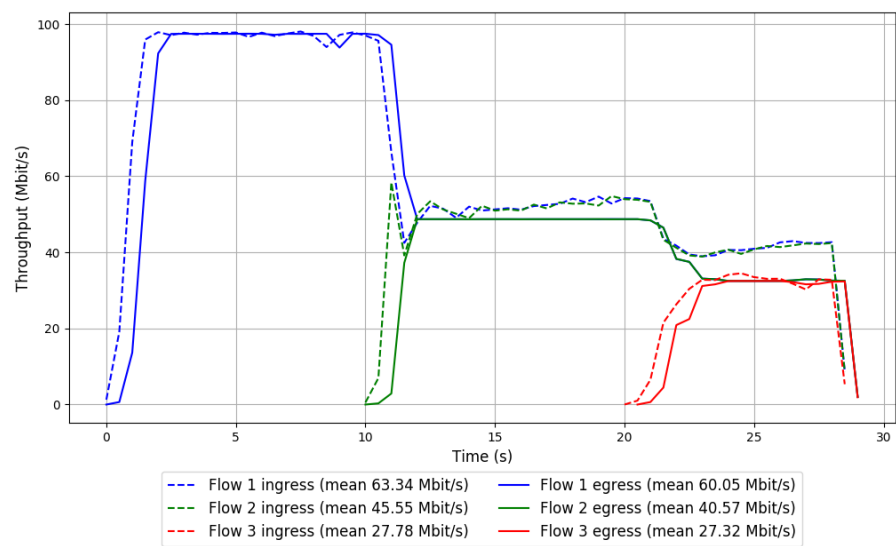


Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 12:49:58  
End at: 2019-08-27 12:50:28  
Local clock offset: -0.187 ms  
Remote clock offset: -7.275 ms

# Below is generated by plot.py at 2019-08-27 14:09:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.78 Mbit/s  
95th percentile per-packet one-way delay: 222.650 ms  
Loss rate: 7.35%  
-- Flow 1:  
Average throughput: 60.05 Mbit/s  
95th percentile per-packet one-way delay: 225.411 ms  
Loss rate: 5.75%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 225.778 ms  
Loss rate: 11.76%  
-- Flow 3:  
Average throughput: 27.32 Mbit/s  
95th percentile per-packet one-way delay: 144.399 ms  
Loss rate: 3.74%

Run 3: Report of Indigo-MusesD — Data Link

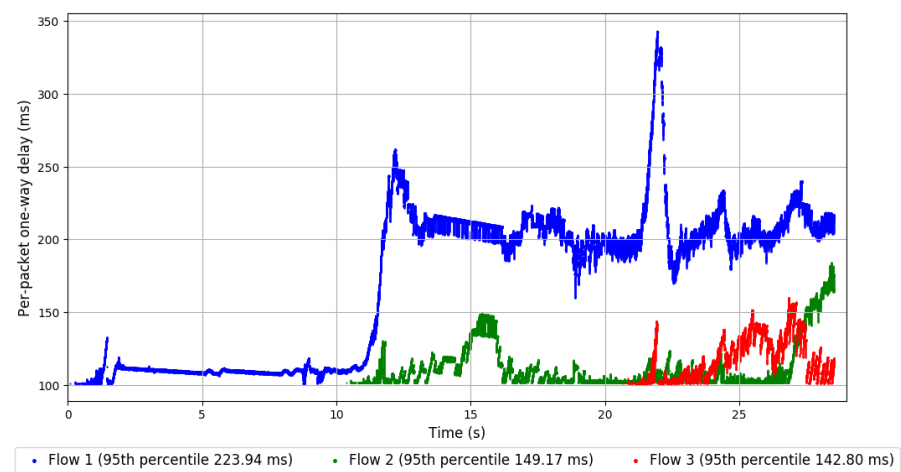
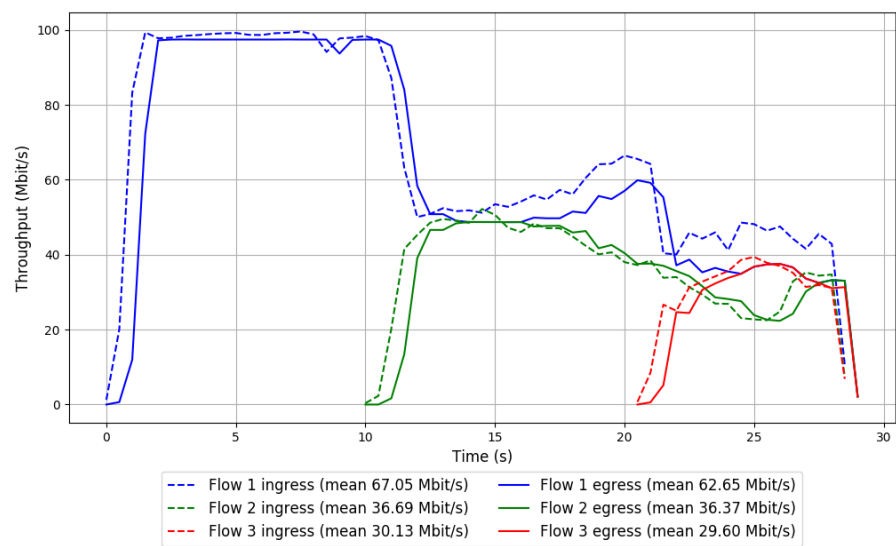


Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 13:20:55  
End at: 2019-08-27 13:21:25  
Local clock offset: 0.659 ms  
Remote clock offset: -7.111 ms

# Below is generated by plot.py at 2019-08-27 14:10:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.09 Mbit/s  
95th percentile per-packet one-way delay: 217.632 ms  
Loss rate: 5.58%  
-- Flow 1:  
Average throughput: 62.65 Mbit/s  
95th percentile per-packet one-way delay: 223.939 ms  
Loss rate: 7.12%  
-- Flow 2:  
Average throughput: 36.37 Mbit/s  
95th percentile per-packet one-way delay: 149.170 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 29.60 Mbit/s  
95th percentile per-packet one-way delay: 142.799 ms  
Loss rate: 3.85%

Run 4: Report of Indigo-MusesD — Data Link



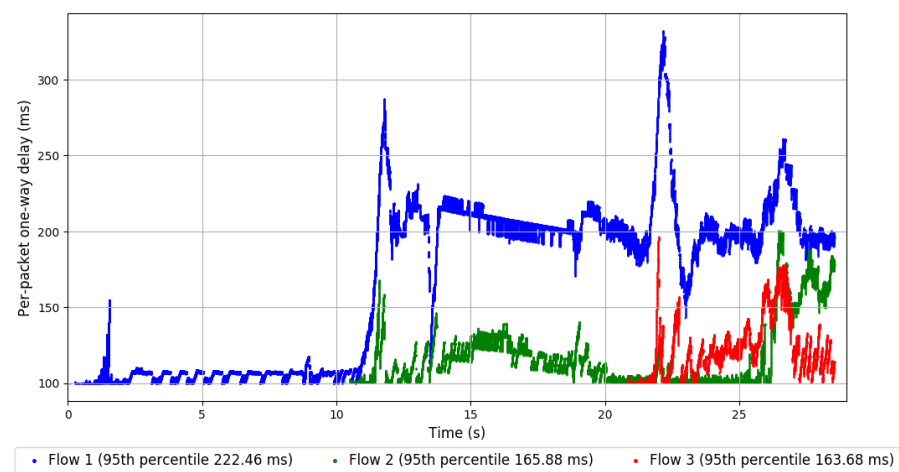
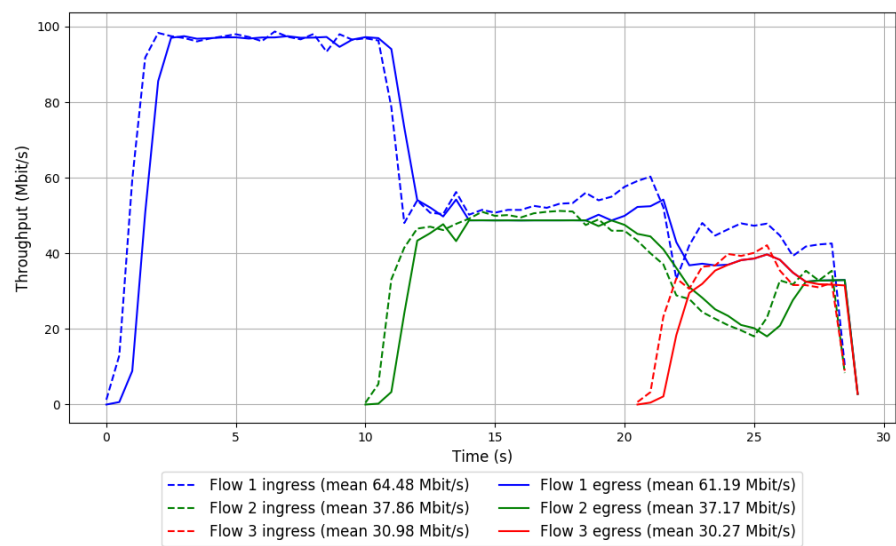


Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 13:52:06  
End at: 2019-08-27 13:52:36  
Local clock offset: -0.244 ms  
Remote clock offset: -5.423 ms

# Below is generated by plot.py at 2019-08-27 14:10:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.34 Mbit/s  
95th percentile per-packet one-way delay: 216.883 ms  
Loss rate: 4.81%  
-- Flow 1:  
Average throughput: 61.19 Mbit/s  
95th percentile per-packet one-way delay: 222.463 ms  
Loss rate: 5.66%  
-- Flow 2:  
Average throughput: 37.17 Mbit/s  
95th percentile per-packet one-way delay: 165.882 ms  
Loss rate: 2.74%  
-- Flow 3:  
Average throughput: 30.27 Mbit/s  
95th percentile per-packet one-way delay: 163.677 ms  
Loss rate: 4.36%

Run 5: Report of Indigo-MusesD — Data Link

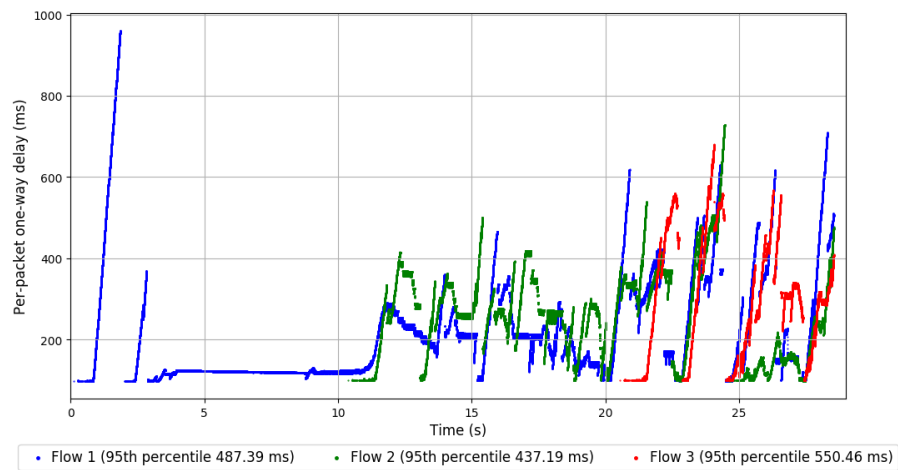
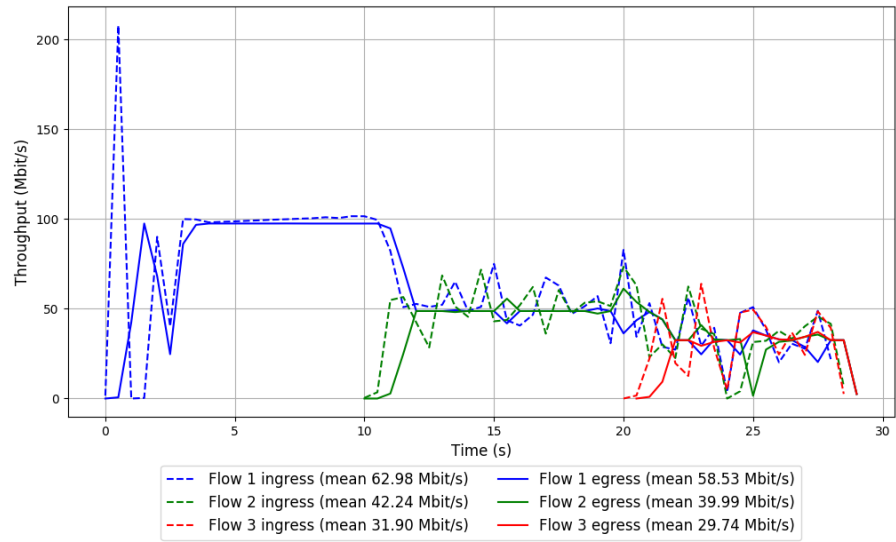


Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 11:32:34  
End at: 2019-08-27 11:33:04  
Local clock offset: -0.417 ms  
Remote clock offset: -7.925 ms

# Below is generated by plot.py at 2019-08-27 14:10:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.46 Mbit/s  
95th percentile per-packet one-way delay: 496.012 ms  
Loss rate: 6.51%  
-- Flow 1:  
Average throughput: 58.53 Mbit/s  
95th percentile per-packet one-way delay: 487.393 ms  
Loss rate: 6.33%  
-- Flow 2:  
Average throughput: 39.99 Mbit/s  
95th percentile per-packet one-way delay: 437.190 ms  
Loss rate: 6.17%  
-- Flow 3:  
Average throughput: 29.74 Mbit/s  
95th percentile per-packet one-way delay: 550.460 ms  
Loss rate: 8.72%

## Run 1: Report of Indigo-MusesT — Data Link

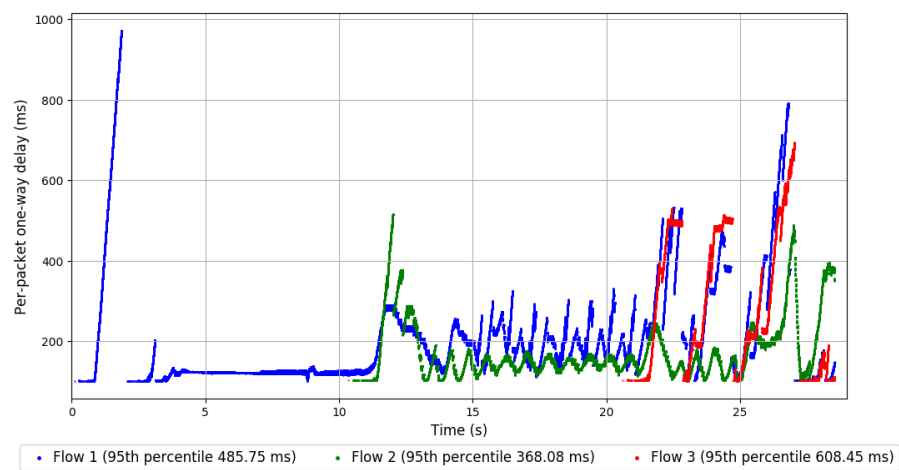
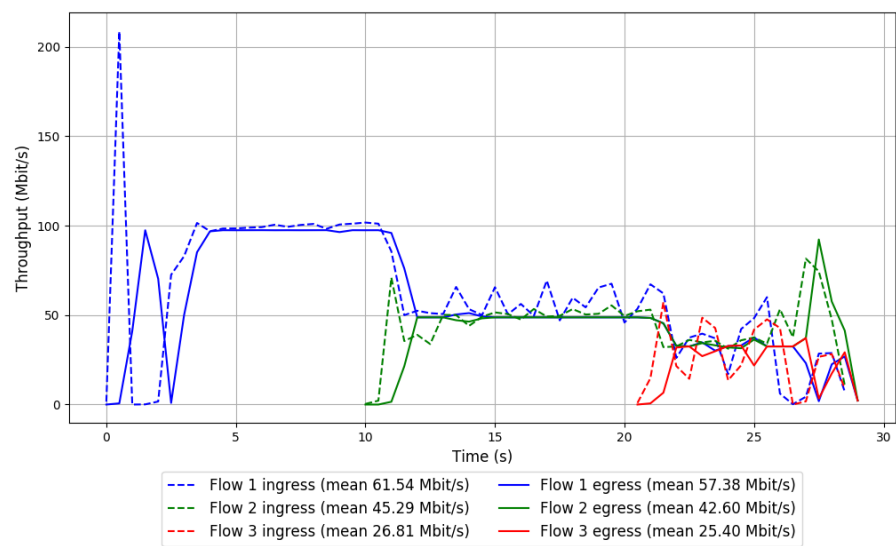


Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 12:03:30  
End at: 2019-08-27 12:04:00  
Local clock offset: -0.321 ms  
Remote clock offset: -6.213 ms

# Below is generated by plot.py at 2019-08-27 14:10:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.72 Mbit/s  
95th percentile per-packet one-way delay: 492.143 ms  
Loss rate: 7.02%  
-- Flow 1:  
Average throughput: 57.38 Mbit/s  
95th percentile per-packet one-way delay: 485.752 ms  
Loss rate: 7.30%  
-- Flow 2:  
Average throughput: 42.60 Mbit/s  
95th percentile per-packet one-way delay: 368.078 ms  
Loss rate: 6.42%  
-- Flow 3:  
Average throughput: 25.40 Mbit/s  
95th percentile per-packet one-way delay: 608.449 ms  
Loss rate: 7.02%

Run 2: Report of Indigo-MusesT — Data Link

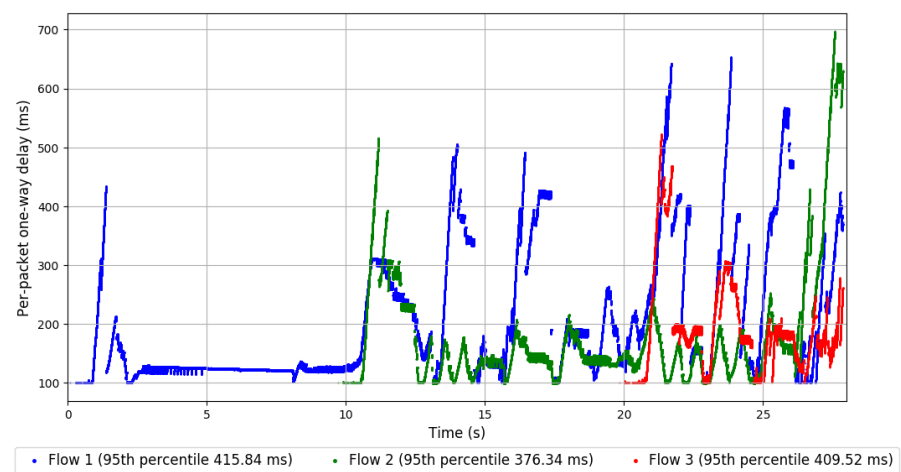
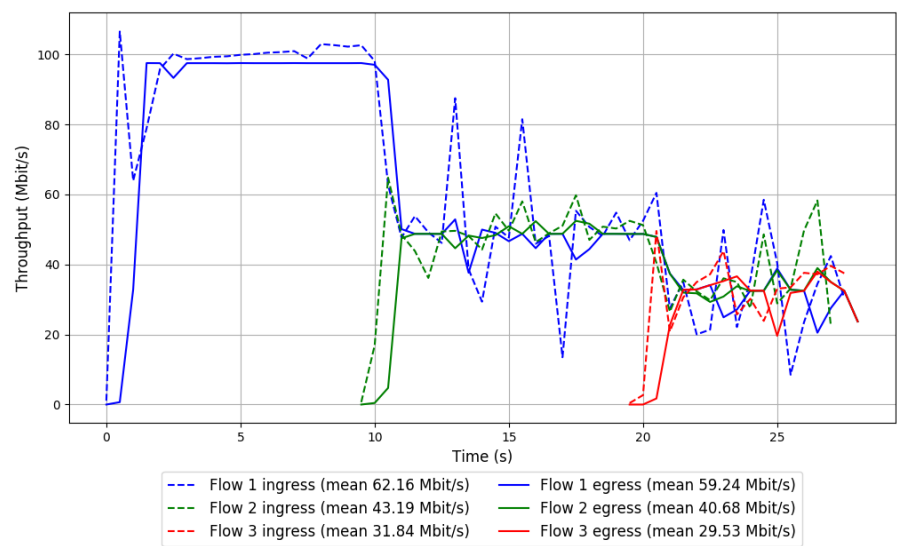


Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 12:34:27  
End at: 2019-08-27 12:34:57  
Local clock offset: 0.473 ms  
Remote clock offset: -5.377 ms

# Below is generated by plot.py at 2019-08-27 14:10:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.38 Mbit/s  
95th percentile per-packet one-way delay: 410.201 ms  
Loss rate: 4.99%  
-- Flow 1:  
Average throughput: 59.24 Mbit/s  
95th percentile per-packet one-way delay: 415.842 ms  
Loss rate: 5.24%  
-- Flow 2:  
Average throughput: 40.68 Mbit/s  
95th percentile per-packet one-way delay: 376.341 ms  
Loss rate: 3.22%  
-- Flow 3:  
Average throughput: 29.53 Mbit/s  
95th percentile per-packet one-way delay: 409.523 ms  
Loss rate: 8.53%

Run 3: Report of Indigo-MusesT — Data Link



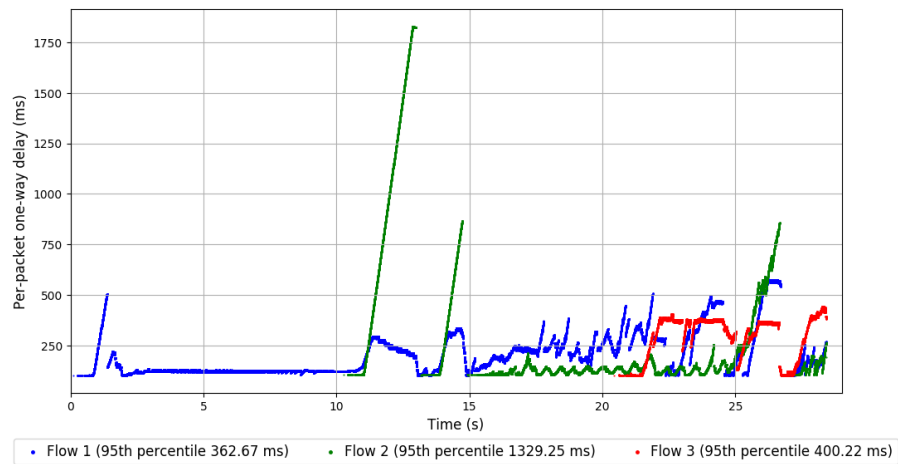
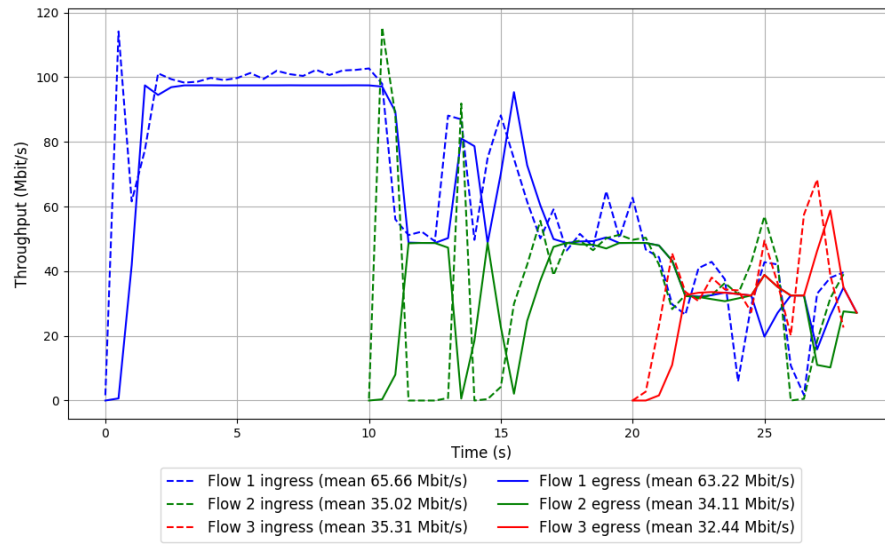


Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 13:05:24  
End at: 2019-08-27 13:05:54  
Local clock offset: -0.165 ms  
Remote clock offset: -10.048 ms

# Below is generated by plot.py at 2019-08-27 14:10:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.22 Mbit/s  
95th percentile per-packet one-way delay: 532.461 ms  
Loss rate: 4.47%  
-- Flow 1:  
Average throughput: 63.22 Mbit/s  
95th percentile per-packet one-way delay: 362.668 ms  
Loss rate: 4.27%  
-- Flow 2:  
Average throughput: 34.11 Mbit/s  
95th percentile per-packet one-way delay: 1329.249 ms  
Loss rate: 3.43%  
-- Flow 3:  
Average throughput: 32.44 Mbit/s  
95th percentile per-packet one-way delay: 400.216 ms  
Loss rate: 8.12%

# Run 4: Report of Indigo-MusesT — Data Link

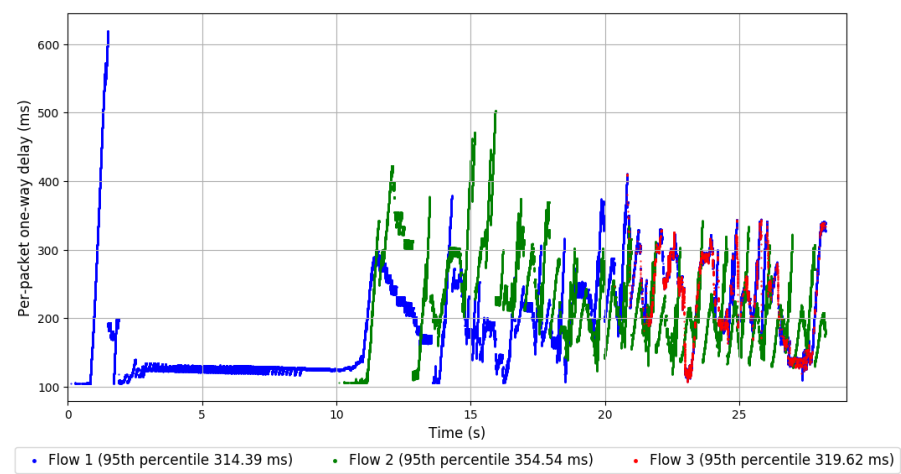
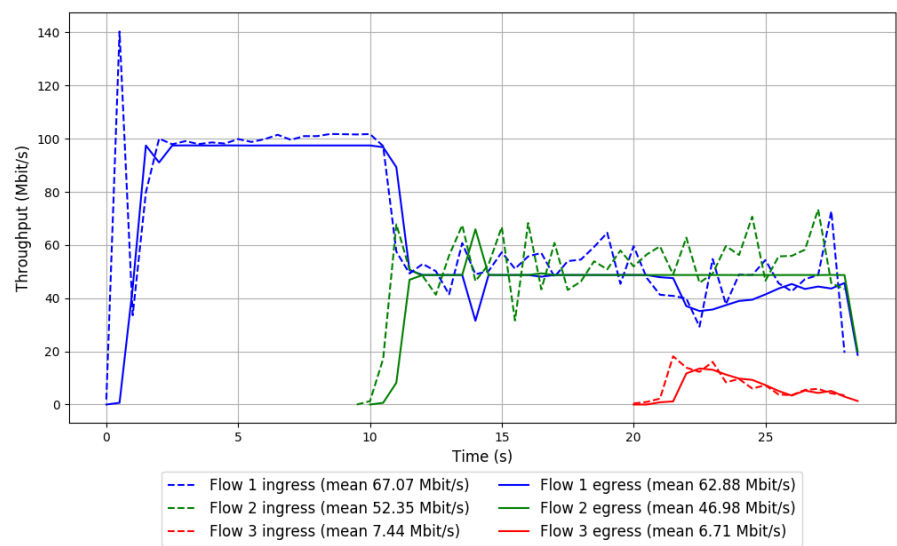


Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 13:36:21  
End at: 2019-08-27 13:36:51  
Local clock offset: 0.559 ms  
Remote clock offset: -10.124 ms

# Below is generated by plot.py at 2019-08-27 14:10:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.02 Mbit/s  
95th percentile per-packet one-way delay: 333.062 ms  
Loss rate: 8.30%  
-- Flow 1:  
Average throughput: 62.88 Mbit/s  
95th percentile per-packet one-way delay: 314.395 ms  
Loss rate: 6.77%  
-- Flow 2:  
Average throughput: 46.98 Mbit/s  
95th percentile per-packet one-way delay: 354.535 ms  
Loss rate: 11.03%  
-- Flow 3:  
Average throughput: 6.71 Mbit/s  
95th percentile per-packet one-way delay: 319.621 ms  
Loss rate: 13.25%

Run 5: Report of Indigo-MusesT — Data Link

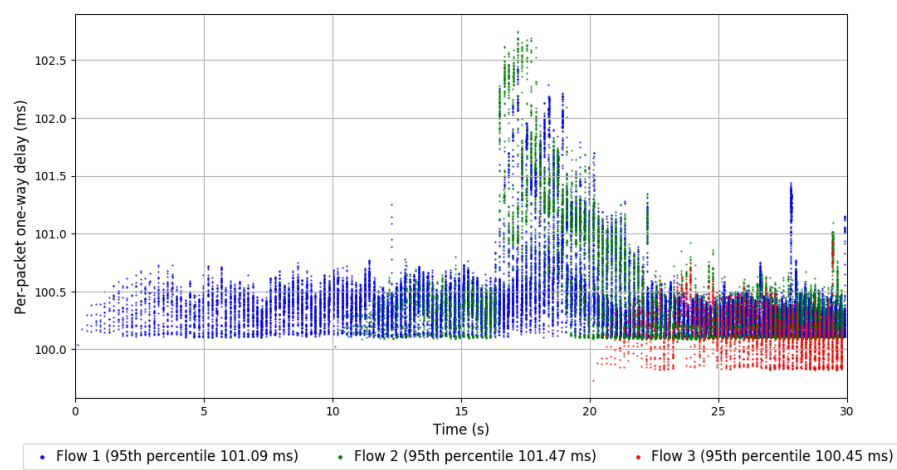
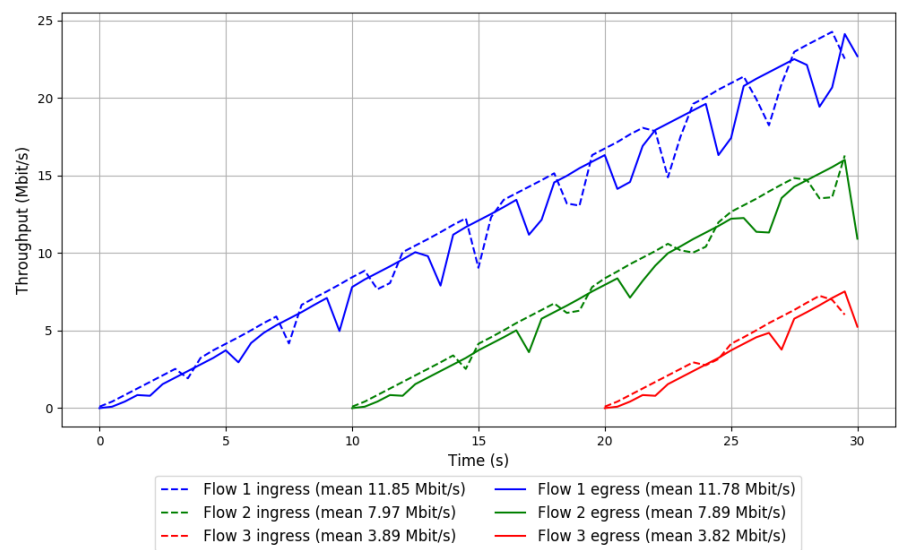


Run 1: Statistics of LEDBAT

Start at: 2019-08-27 11:33:51  
End at: 2019-08-27 11:34:21  
Local clock offset: 0.406 ms  
Remote clock offset: -8.835 ms

# Below is generated by plot.py at 2019-08-27 14:10:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.24 Mbit/s  
95th percentile per-packet one-way delay: 101.194 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 11.78 Mbit/s  
95th percentile per-packet one-way delay: 101.090 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 7.89 Mbit/s  
95th percentile per-packet one-way delay: 101.471 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 3.82 Mbit/s  
95th percentile per-packet one-way delay: 100.452 ms  
Loss rate: 3.53%

Run 1: Report of LEDBAT — Data Link

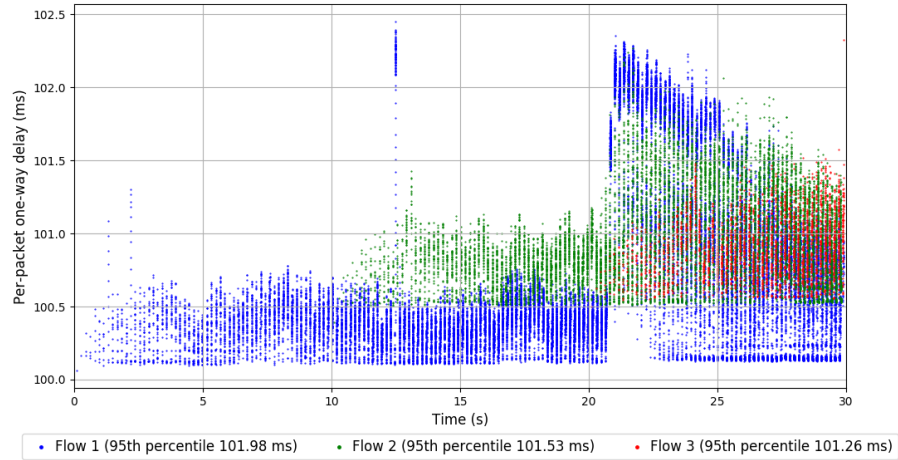
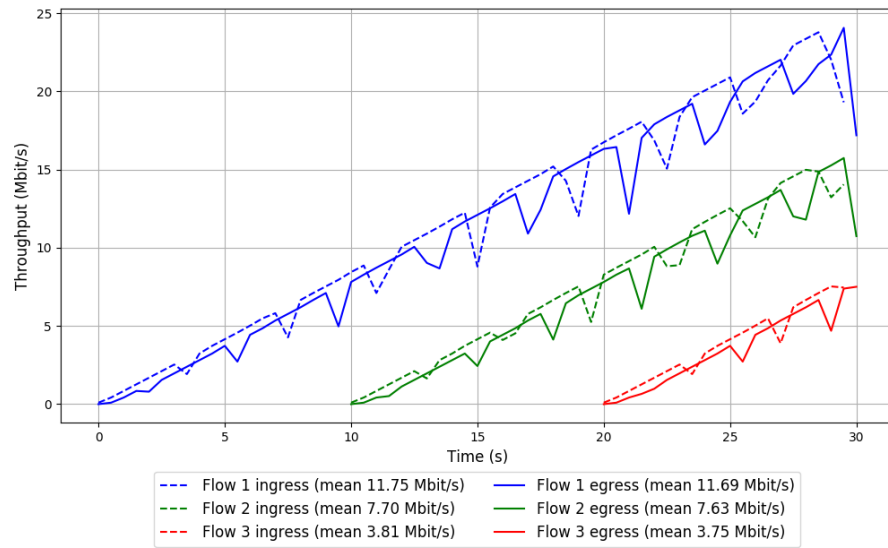


Run 2: Statistics of LEDBAT

Start at: 2019-08-27 12:04:48  
End at: 2019-08-27 12:05:18  
Local clock offset: 0.394 ms  
Remote clock offset: -4.572 ms

# Below is generated by plot.py at 2019-08-27 14:10:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.96 Mbit/s  
95th percentile per-packet one-way delay: 101.884 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 11.69 Mbit/s  
95th percentile per-packet one-way delay: 101.976 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 7.63 Mbit/s  
95th percentile per-packet one-way delay: 101.532 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 3.75 Mbit/s  
95th percentile per-packet one-way delay: 101.263 ms  
Loss rate: 3.31%

## Run 2: Report of LEDBAT — Data Link



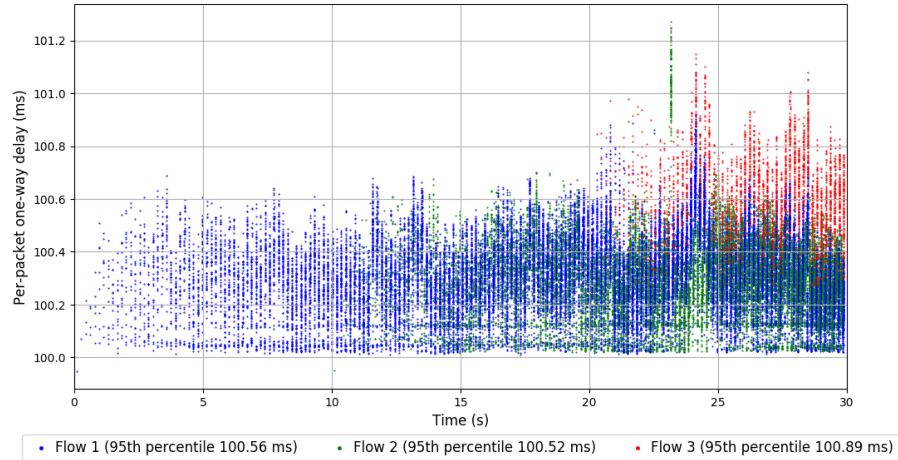
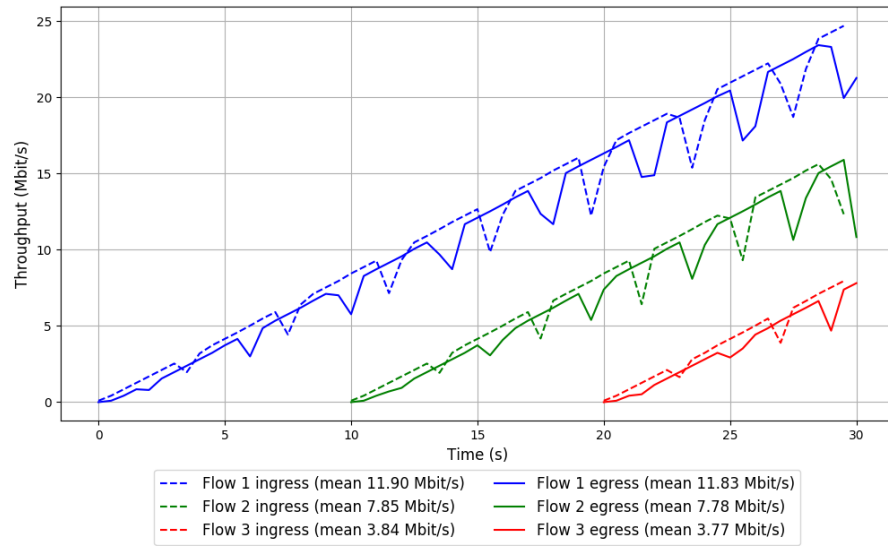


Run 3: Statistics of LEDBAT

Start at: 2019-08-27 12:35:45  
End at: 2019-08-27 12:36:15  
Local clock offset: -0.304 ms  
Remote clock offset: -6.888 ms

# Below is generated by plot.py at 2019-08-27 14:10:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.20 Mbit/s  
95th percentile per-packet one-way delay: 100.621 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 11.83 Mbit/s  
95th percentile per-packet one-way delay: 100.556 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 7.78 Mbit/s  
95th percentile per-packet one-way delay: 100.519 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 3.77 Mbit/s  
95th percentile per-packet one-way delay: 100.890 ms  
Loss rate: 3.53%

### Run 3: Report of LEDBAT — Data Link

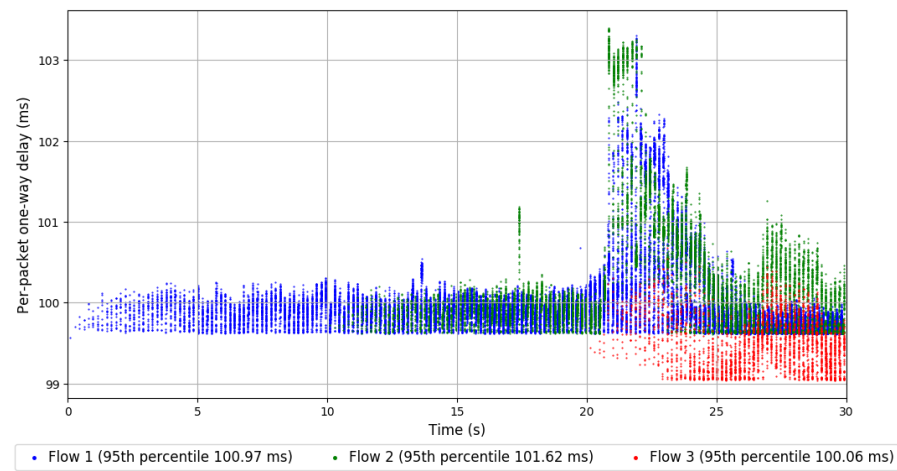
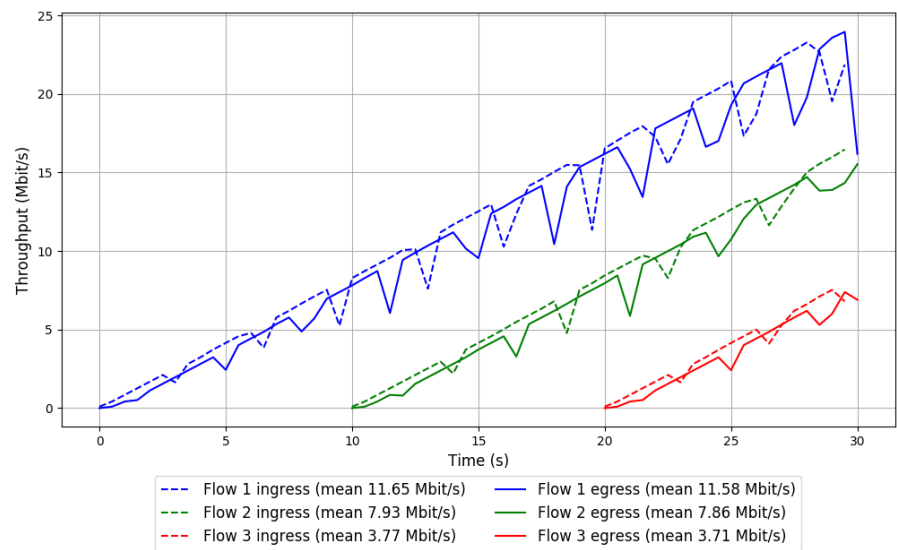


Run 4: Statistics of LEDBAT

Start at: 2019-08-27 13:06:42  
End at: 2019-08-27 13:07:12  
Local clock offset: -0.16 ms  
Remote clock offset: -7.065 ms

# Below is generated by plot.py at 2019-08-27 14:10:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.98 Mbit/s  
95th percentile per-packet one-way delay: 101.234 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 11.58 Mbit/s  
95th percentile per-packet one-way delay: 100.970 ms  
Loss rate: 1.17%  
-- Flow 2:  
Average throughput: 7.86 Mbit/s  
95th percentile per-packet one-way delay: 101.624 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 3.71 Mbit/s  
95th percentile per-packet one-way delay: 100.062 ms  
Loss rate: 3.28%

Run 4: Report of LEDBAT — Data Link

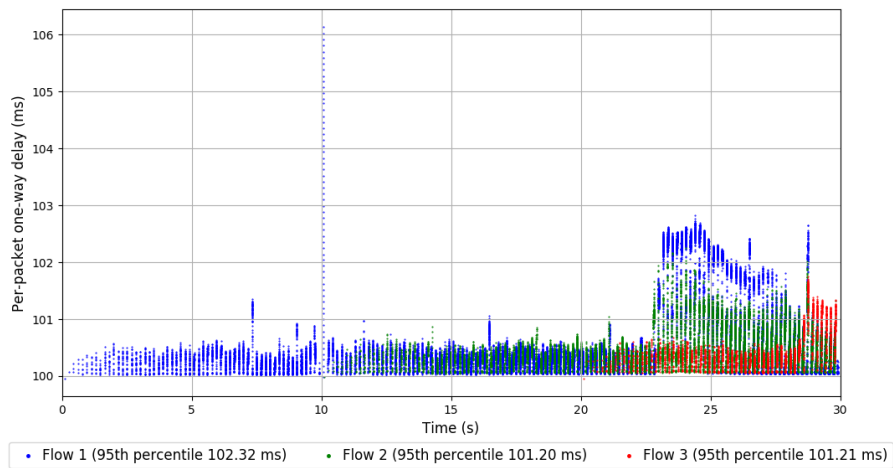
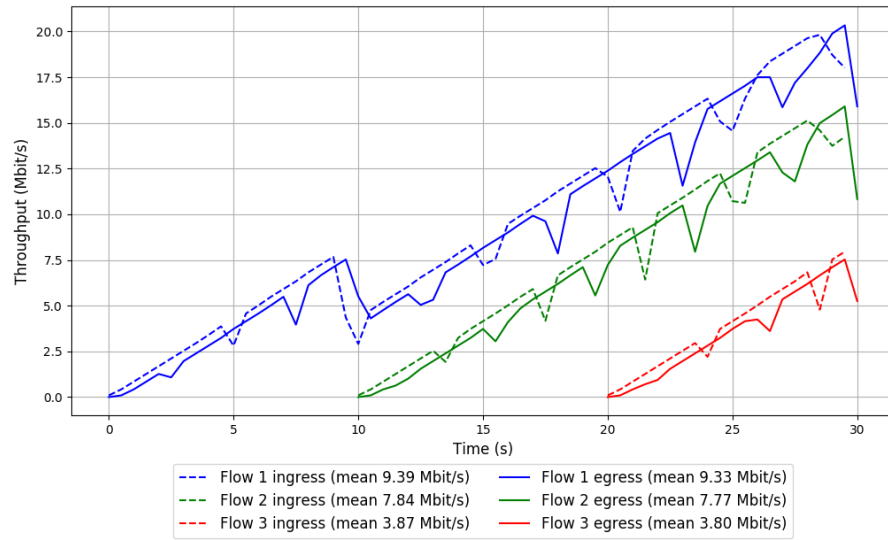


Run 5: Statistics of LEDBAT

Start at: 2019-08-27 13:37:39  
End at: 2019-08-27 13:38:09  
Local clock offset: 0.516 ms  
Remote clock offset: -5.755 ms

# Below is generated by plot.py at 2019-08-27 14:10:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.70 Mbit/s  
95th percentile per-packet one-way delay: 102.130 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 9.33 Mbit/s  
95th percentile per-packet one-way delay: 102.320 ms  
Loss rate: 1.25%  
-- Flow 2:  
Average throughput: 7.77 Mbit/s  
95th percentile per-packet one-way delay: 101.203 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 3.80 Mbit/s  
95th percentile per-packet one-way delay: 101.209 ms  
Loss rate: 3.53%

## Run 5: Report of LEDBAT — Data Link

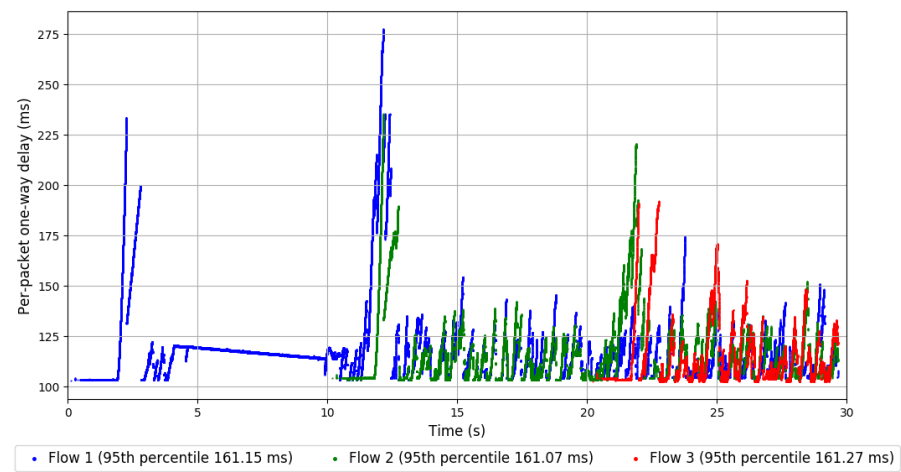
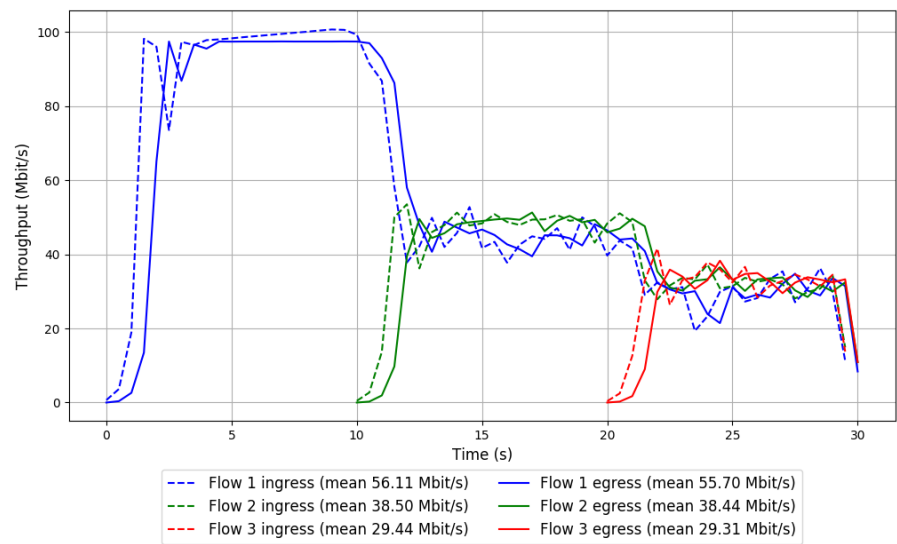


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 11:42:53  
End at: 2019-08-27 11:43:23  
Local clock offset: -0.351 ms  
Remote clock offset: -10.413 ms

# Below is generated by plot.py at 2019-08-27 14:11:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.41 Mbit/s  
95th percentile per-packet one-way delay: 161.186 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 55.70 Mbit/s  
95th percentile per-packet one-way delay: 161.145 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 38.44 Mbit/s  
95th percentile per-packet one-way delay: 161.075 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 29.31 Mbit/s  
95th percentile per-packet one-way delay: 161.274 ms  
Loss rate: 2.23%

Run 1: Report of Muses\_DecisionTree — Data Link



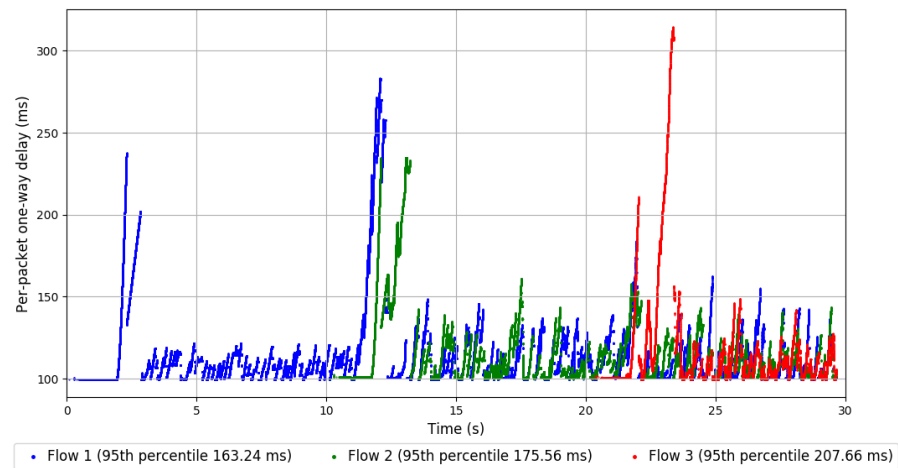
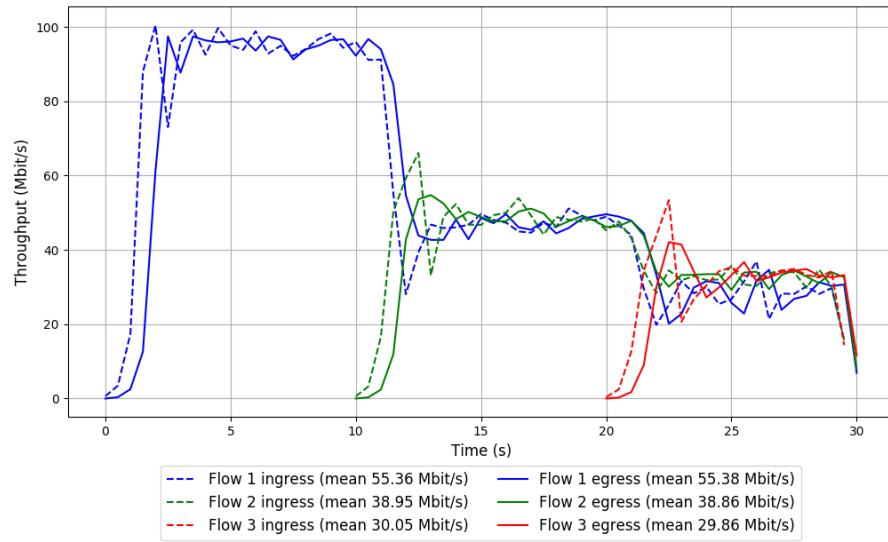


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 12:13:49  
End at: 2019-08-27 12:14:19  
Local clock offset: -0.348 ms  
Remote clock offset: -5.311 ms

# Below is generated by plot.py at 2019-08-27 14:11:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.60 Mbit/s  
95th percentile per-packet one-way delay: 171.784 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 55.38 Mbit/s  
95th percentile per-packet one-way delay: 163.239 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 38.86 Mbit/s  
95th percentile per-packet one-way delay: 175.558 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 29.86 Mbit/s  
95th percentile per-packet one-way delay: 207.662 ms  
Loss rate: 2.41%

## Run 2: Report of Muses\_DecisionTree — Data Link

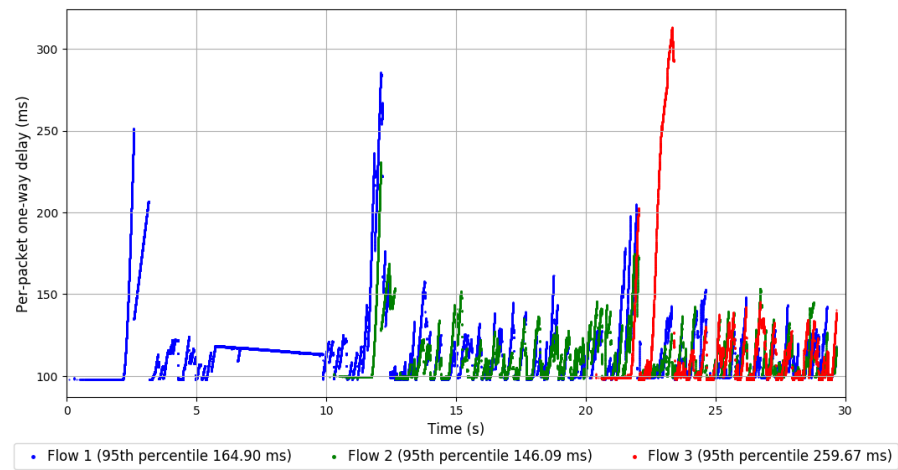
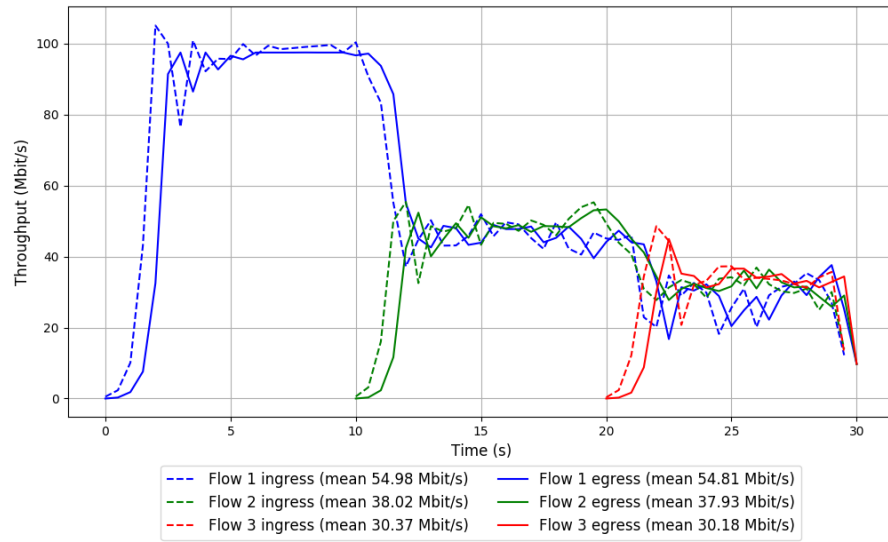


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 12:44:47  
End at: 2019-08-27 12:45:17  
Local clock offset: -0.189 ms  
Remote clock offset: -4.788 ms

# Below is generated by plot.py at 2019-08-27 14:11:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.50 Mbit/s  
95th percentile per-packet one-way delay: 161.402 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 54.81 Mbit/s  
95th percentile per-packet one-way delay: 164.903 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 37.93 Mbit/s  
95th percentile per-packet one-way delay: 146.092 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 30.18 Mbit/s  
95th percentile per-packet one-way delay: 259.672 ms  
Loss rate: 2.37%

### Run 3: Report of Muses\_DecisionTree — Data Link

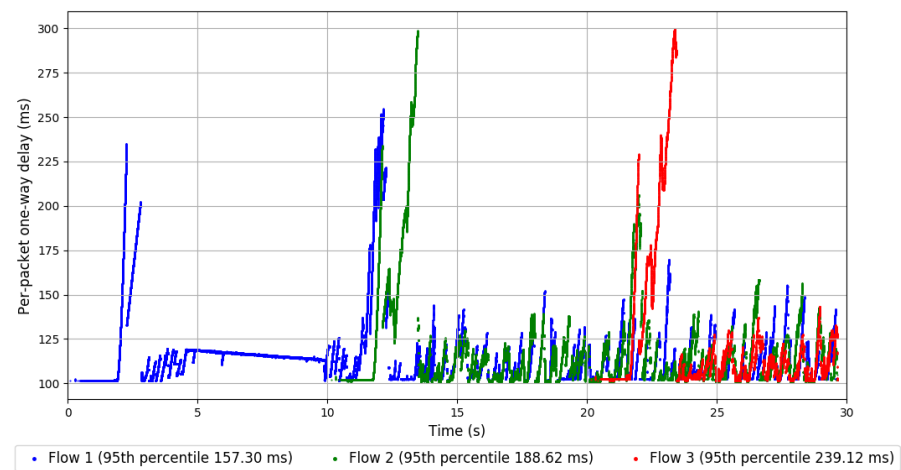
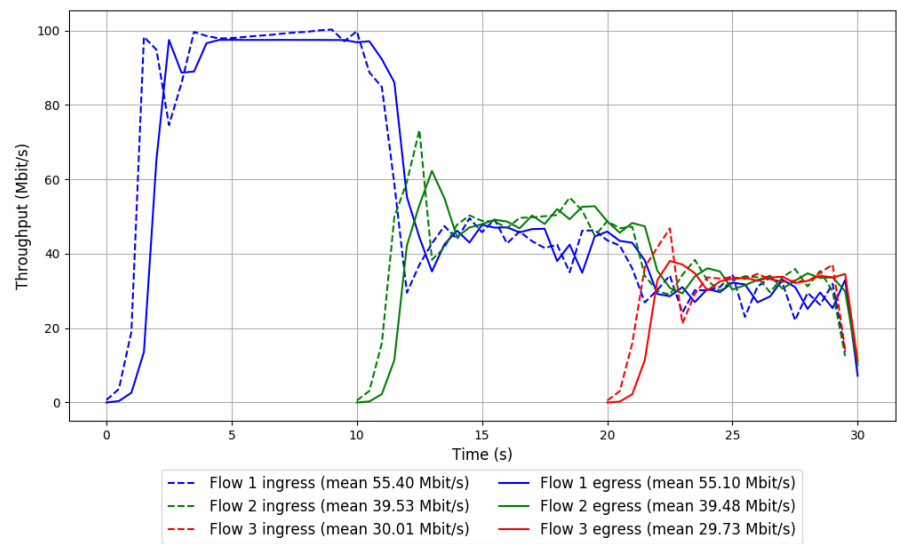


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 13:15:44  
End at: 2019-08-27 13:16:14  
Local clock offset: 0.583 ms  
Remote clock offset: -8.548 ms

# Below is generated by plot.py at 2019-08-27 14:11:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.71 Mbit/s  
95th percentile per-packet one-way delay: 178.664 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 55.10 Mbit/s  
95th percentile per-packet one-way delay: 157.298 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 39.48 Mbit/s  
95th percentile per-packet one-way delay: 188.620 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 29.73 Mbit/s  
95th percentile per-packet one-way delay: 239.121 ms  
Loss rate: 2.71%

Run 4: Report of Muses\_DecisionTree — Data Link

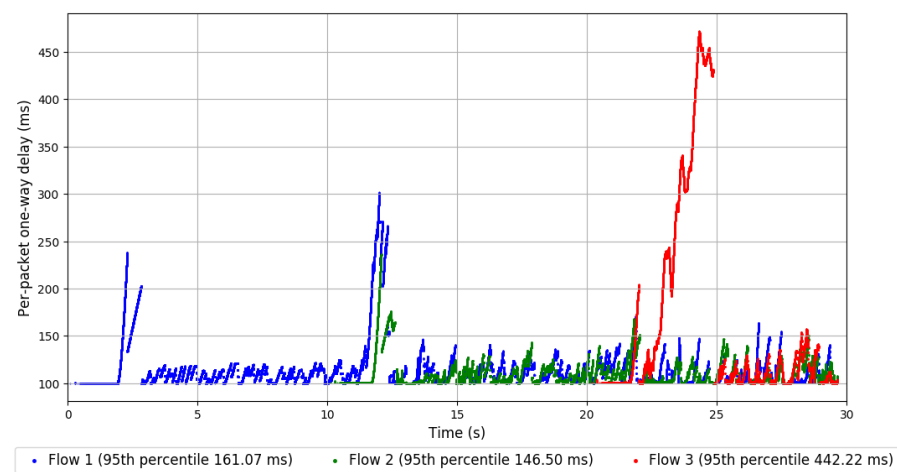
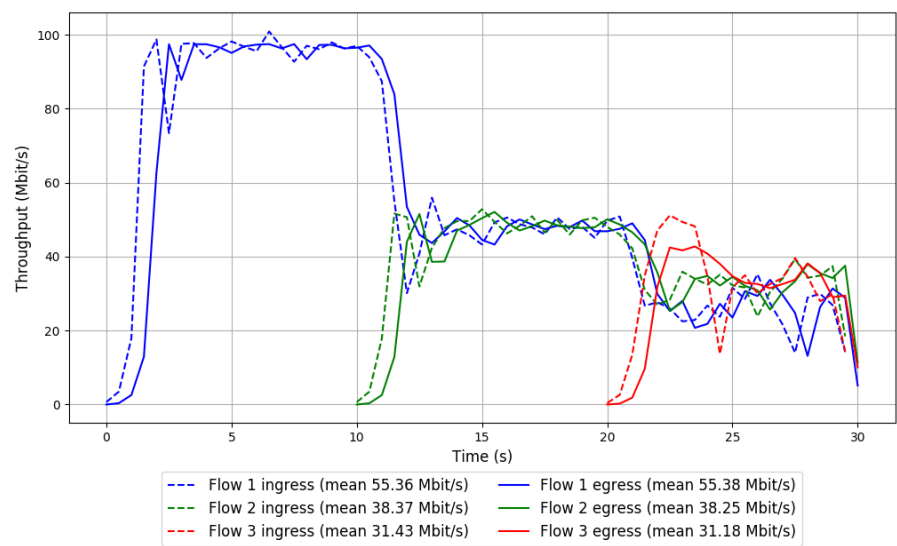


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 13:46:42  
End at: 2019-08-27 13:47:12  
Local clock offset: -0.24 ms  
Remote clock offset: -5.319 ms

# Below is generated by plot.py at 2019-08-27 14:11:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.65 Mbit/s  
95th percentile per-packet one-way delay: 190.578 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 55.38 Mbit/s  
95th percentile per-packet one-way delay: 161.067 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 38.25 Mbit/s  
95th percentile per-packet one-way delay: 146.505 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 31.18 Mbit/s  
95th percentile per-packet one-way delay: 442.220 ms  
Loss rate: 2.60%

Run 5: Report of Muses\_DecisionTree — Data Link



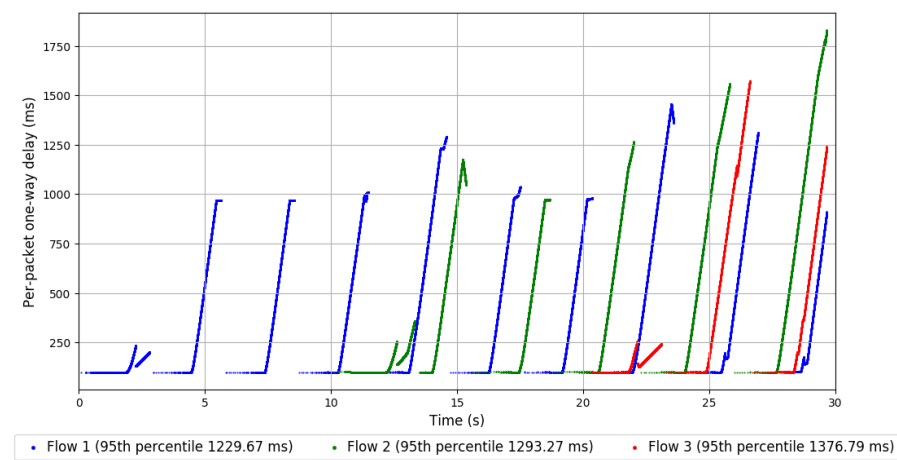
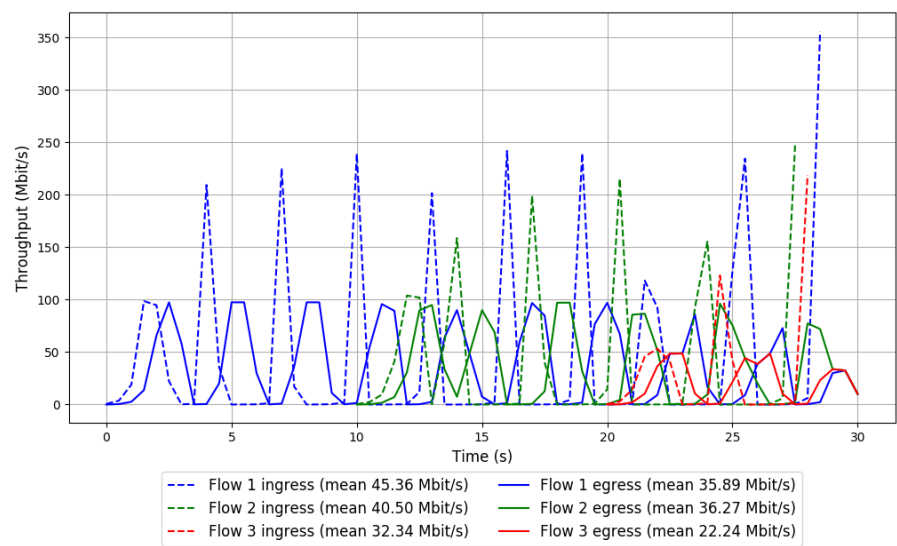


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 11:36:24  
End at: 2019-08-27 11:36:54  
Local clock offset: -0.362 ms  
Remote clock offset: -8.358 ms

# Below is generated by plot.py at 2019-08-27 14:11:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.00 Mbit/s  
95th percentile per-packet one-way delay: 1251.865 ms  
Loss rate: 13.99%  
-- Flow 1:  
Average throughput: 35.89 Mbit/s  
95th percentile per-packet one-way delay: 1229.668 ms  
Loss rate: 18.71%  
-- Flow 2:  
Average throughput: 36.27 Mbit/s  
95th percentile per-packet one-way delay: 1293.266 ms  
Loss rate: 2.27%  
-- Flow 3:  
Average throughput: 22.24 Mbit/s  
95th percentile per-packet one-way delay: 1376.785 ms  
Loss rate: 22.53%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

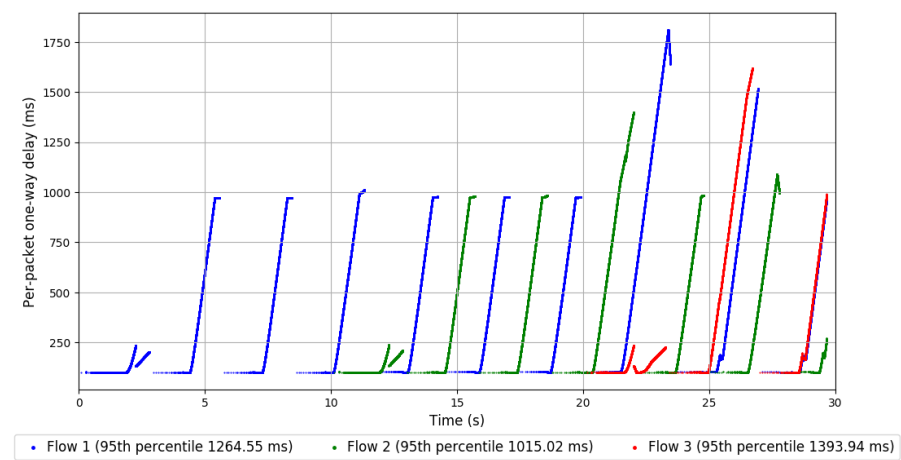
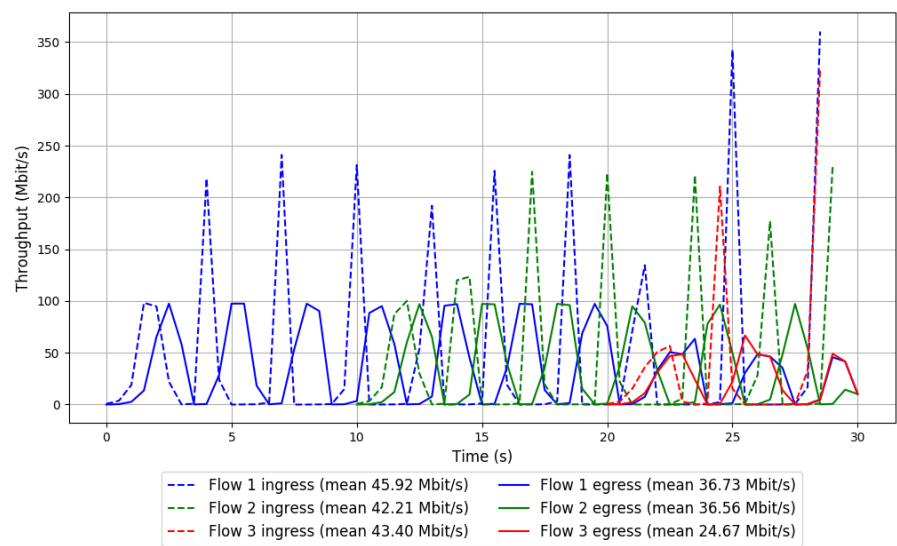


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 12:07:20  
End at: 2019-08-27 12:07:50  
Local clock offset: 0.411 ms  
Remote clock offset: -5.664 ms

# Below is generated by plot.py at 2019-08-27 14:11:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.81 Mbit/s  
95th percentile per-packet one-way delay: 1142.728 ms  
Loss rate: 19.09%  
-- Flow 1:  
Average throughput: 36.73 Mbit/s  
95th percentile per-packet one-way delay: 1264.547 ms  
Loss rate: 17.68%  
-- Flow 2:  
Average throughput: 36.56 Mbit/s  
95th percentile per-packet one-way delay: 1015.019 ms  
Loss rate: 12.94%  
-- Flow 3:  
Average throughput: 24.67 Mbit/s  
95th percentile per-packet one-way delay: 1393.945 ms  
Loss rate: 37.46%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

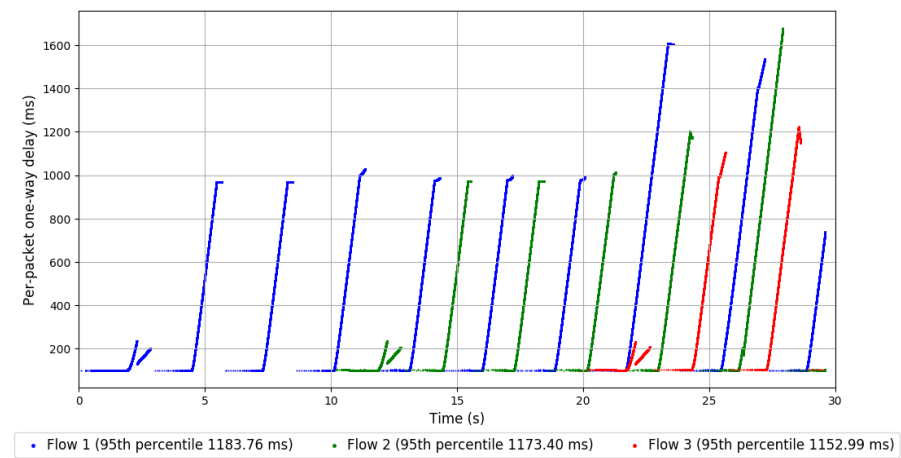
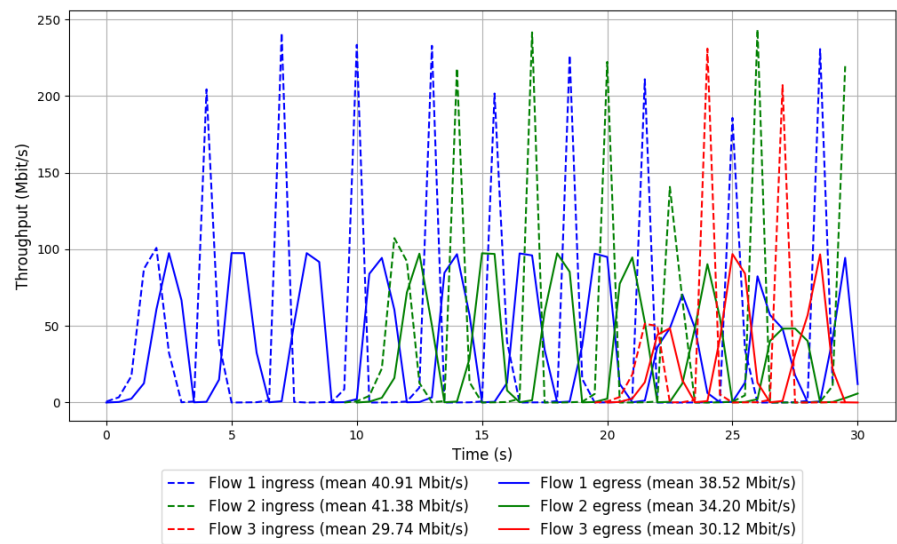


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 12:38:17  
End at: 2019-08-27 12:38:47  
Local clock offset: 0.482 ms  
Remote clock offset: -5.352 ms

# Below is generated by plot.py at 2019-08-27 14:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.83 Mbit/s  
95th percentile per-packet one-way delay: 1169.883 ms  
Loss rate: 8.82%  
-- Flow 1:  
Average throughput: 38.52 Mbit/s  
95th percentile per-packet one-way delay: 1183.758 ms  
Loss rate: 4.45%  
-- Flow 2:  
Average throughput: 34.20 Mbit/s  
95th percentile per-packet one-way delay: 1173.403 ms  
Loss rate: 18.07%  
-- Flow 3:  
Average throughput: 30.12 Mbit/s  
95th percentile per-packet one-way delay: 1152.994 ms  
Loss rate: 0.57%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

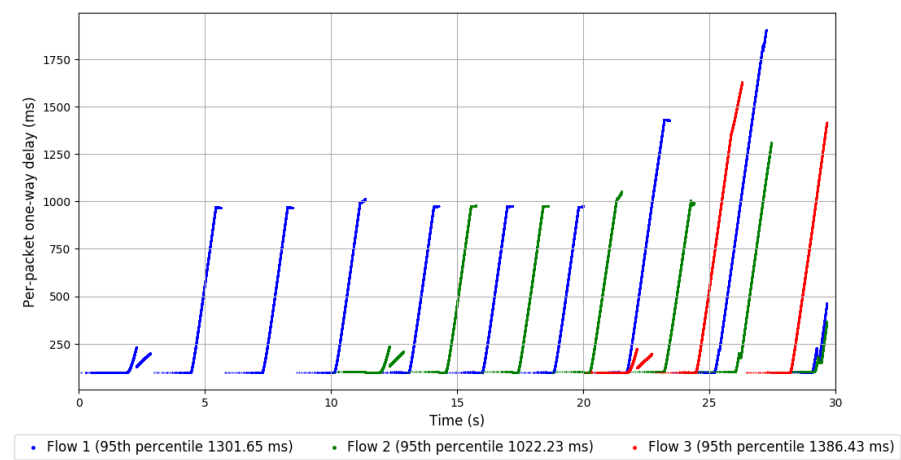
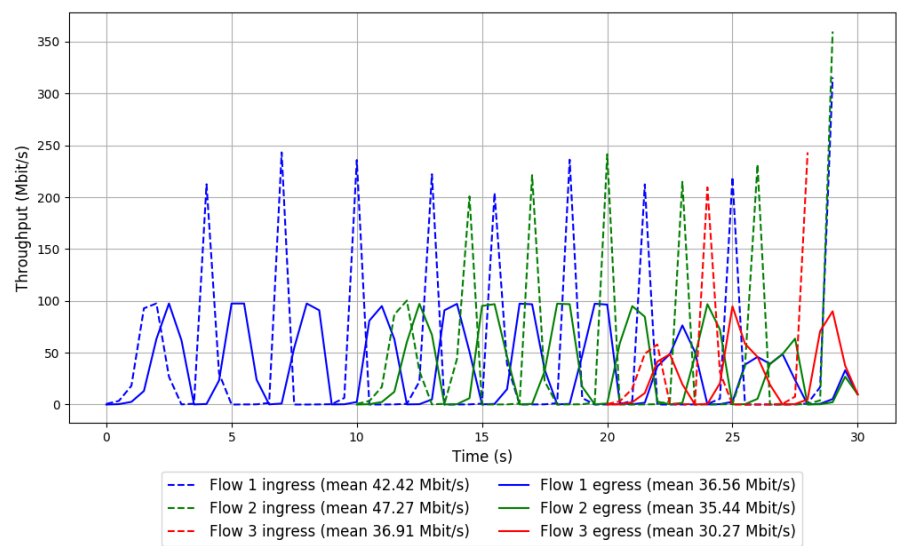


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 13:09:14  
End at: 2019-08-27 13:09:44  
Local clock offset: -0.135 ms  
Remote clock offset: -7.258 ms

# Below is generated by plot.py at 2019-08-27 14:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.75 Mbit/s  
95th percentile per-packet one-way delay: 1228.031 ms  
Loss rate: 16.32%  
-- Flow 1:  
Average throughput: 36.56 Mbit/s  
95th percentile per-packet one-way delay: 1301.654 ms  
Loss rate: 12.86%  
-- Flow 2:  
Average throughput: 35.44 Mbit/s  
95th percentile per-packet one-way delay: 1022.225 ms  
Loss rate: 24.17%  
-- Flow 3:  
Average throughput: 30.27 Mbit/s  
95th percentile per-packet one-way delay: 1386.432 ms  
Loss rate: 7.00%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



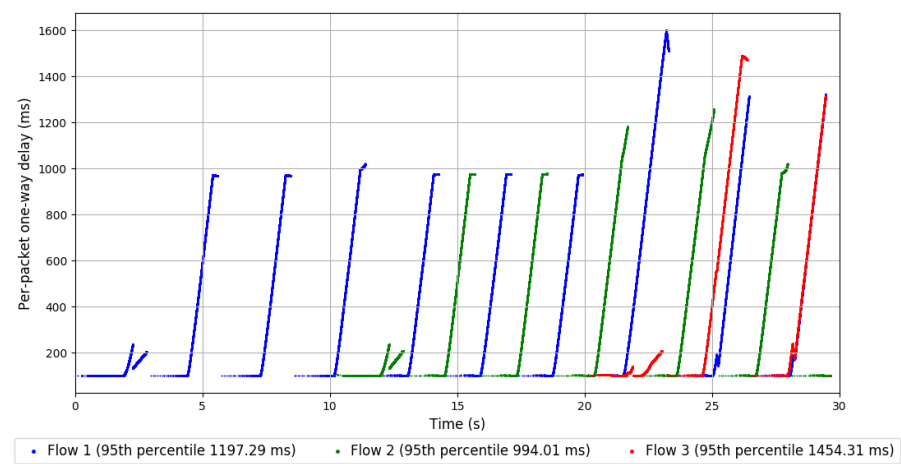
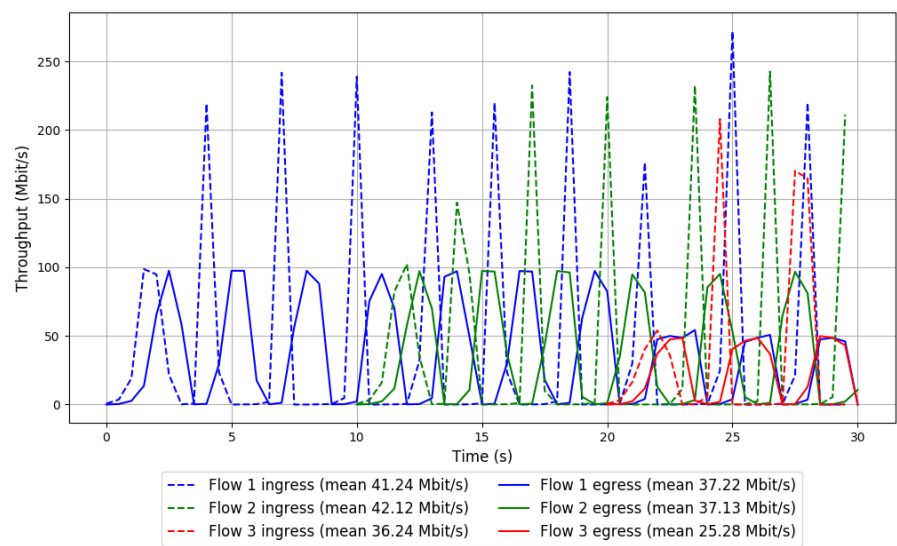


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 13:40:11  
End at: 2019-08-27 13:40:41  
Local clock offset: 0.531 ms  
Remote clock offset: -6.118 ms

# Below is generated by plot.py at 2019-08-27 14:12:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.85 Mbit/s  
95th percentile per-packet one-way delay: 1159.795 ms  
Loss rate: 14.17%  
-- Flow 1:  
Average throughput: 37.22 Mbit/s  
95th percentile per-packet one-way delay: 1197.294 ms  
Loss rate: 10.26%  
-- Flow 2:  
Average throughput: 37.13 Mbit/s  
95th percentile per-packet one-way delay: 994.009 ms  
Loss rate: 12.63%  
-- Flow 3:  
Average throughput: 25.28 Mbit/s  
95th percentile per-packet one-way delay: 1454.306 ms  
Loss rate: 31.51%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

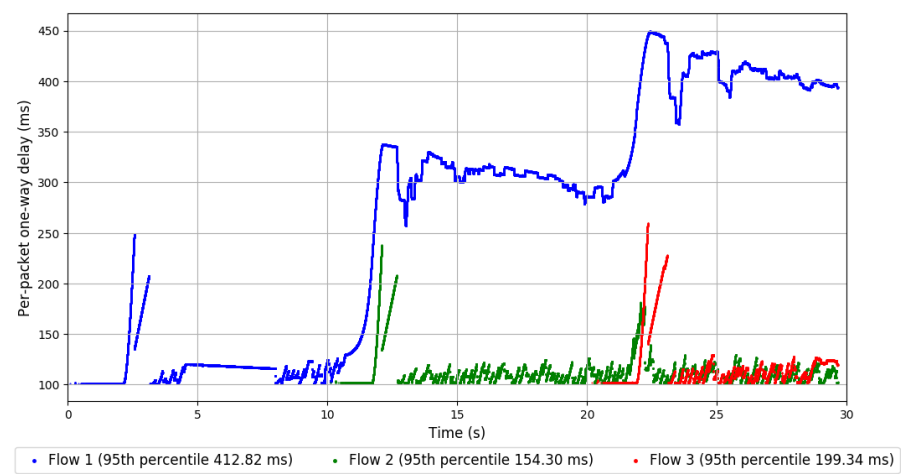
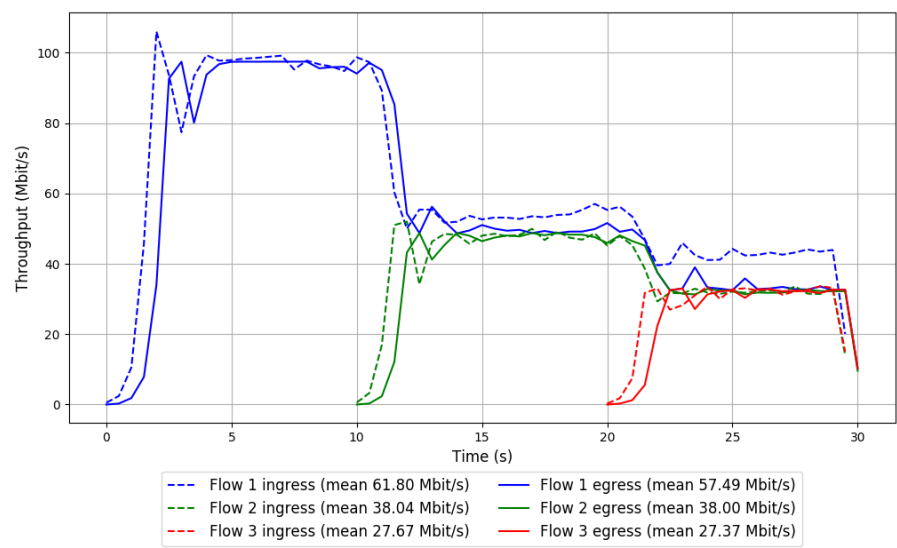


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 11:46:46  
End at: 2019-08-27 11:47:16  
Local clock offset: -0.42 ms  
Remote clock offset: -8.055 ms

# Below is generated by plot.py at 2019-08-27 14:12:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.35 Mbit/s  
95th percentile per-packet one-way delay: 405.239 ms  
Loss rate: 5.36%  
-- Flow 1:  
Average throughput: 57.49 Mbit/s  
95th percentile per-packet one-way delay: 412.825 ms  
Loss rate: 7.51%  
-- Flow 2:  
Average throughput: 38.00 Mbit/s  
95th percentile per-packet one-way delay: 154.303 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 27.37 Mbit/s  
95th percentile per-packet one-way delay: 199.342 ms  
Loss rate: 2.86%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

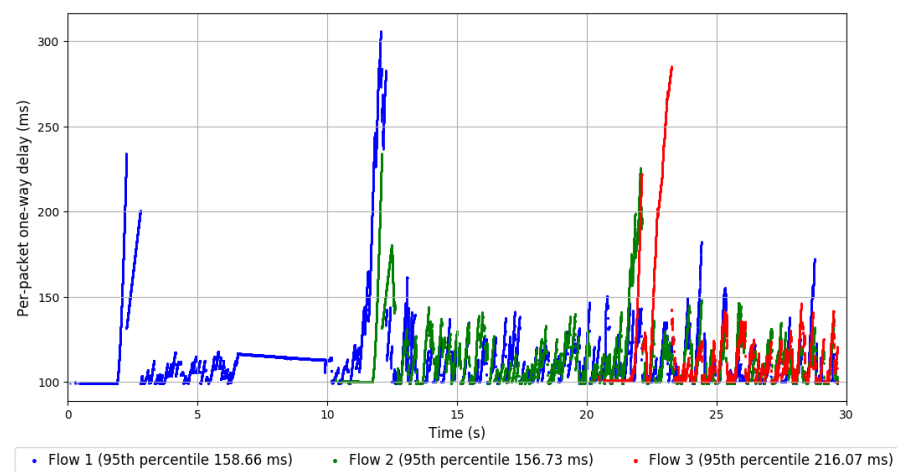
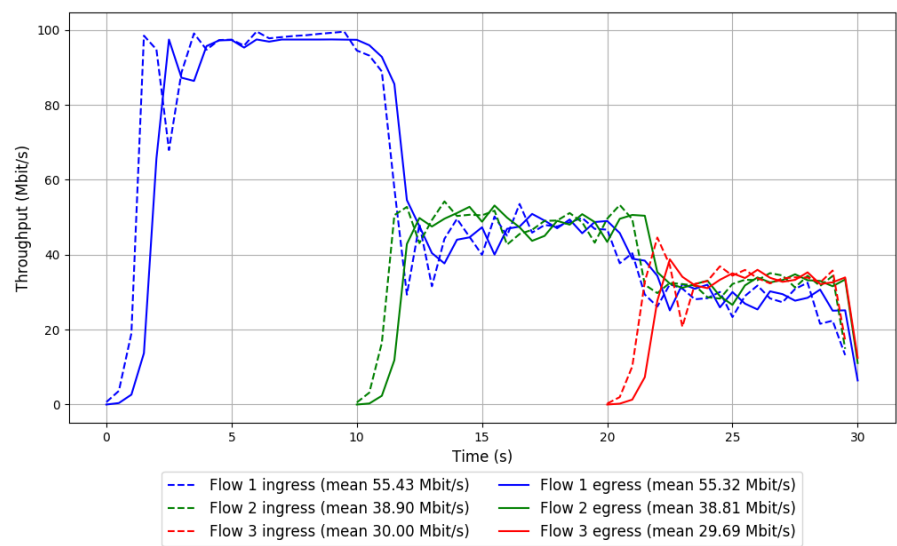


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 12:17:43  
End at: 2019-08-27 12:18:13  
Local clock offset: 0.484 ms  
Remote clock offset: -4.772 ms

# Below is generated by plot.py at 2019-08-27 14:12:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.37 Mbit/s  
95th percentile per-packet one-way delay: 163.002 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 55.32 Mbit/s  
95th percentile per-packet one-way delay: 158.662 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 38.81 Mbit/s  
95th percentile per-packet one-way delay: 156.730 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 29.69 Mbit/s  
95th percentile per-packet one-way delay: 216.072 ms  
Loss rate: 2.86%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

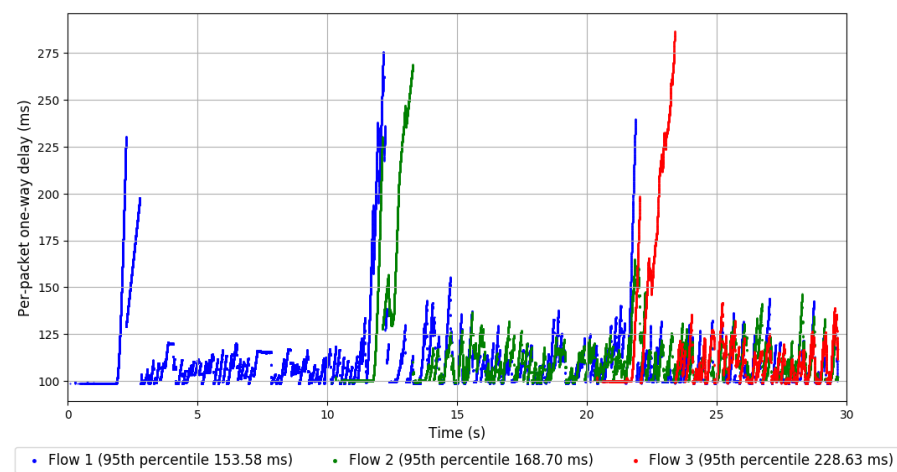
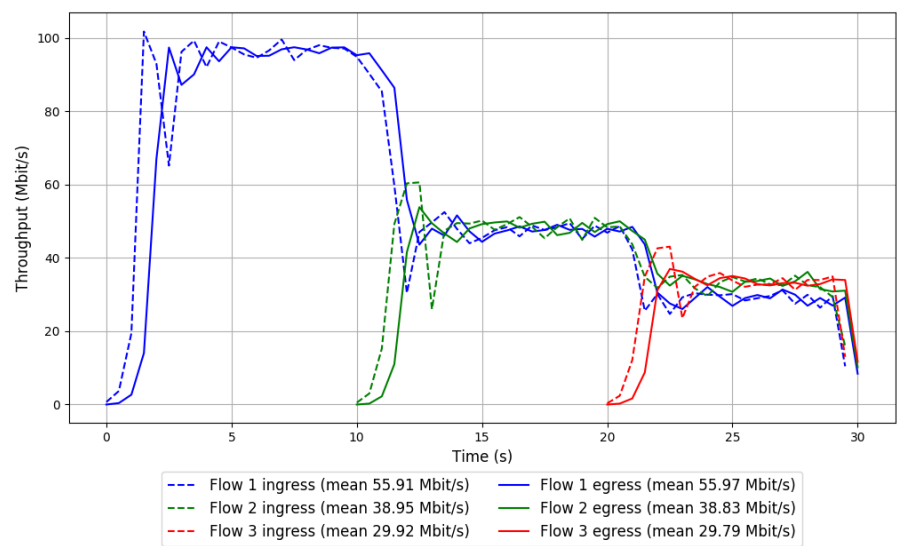


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 12:48:41  
End at: 2019-08-27 12:49:11  
Local clock offset: -0.273 ms  
Remote clock offset: -6.121 ms

# Below is generated by plot.py at 2019-08-27 14:12:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.11 Mbit/s  
95th percentile per-packet one-way delay: 167.240 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 55.97 Mbit/s  
95th percentile per-packet one-way delay: 153.580 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 38.83 Mbit/s  
95th percentile per-packet one-way delay: 168.704 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 29.79 Mbit/s  
95th percentile per-packet one-way delay: 228.631 ms  
Loss rate: 2.19%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 13:19:37

End at: 2019-08-27 13:20:07

Local clock offset: 0.645 ms

Remote clock offset: -5.99 ms

# Below is generated by plot.py at 2019-08-27 14:12:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 159.452 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 157.840 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 38.64 Mbit/s

95th percentile per-packet one-way delay: 151.189 ms

Loss rate: 1.10%

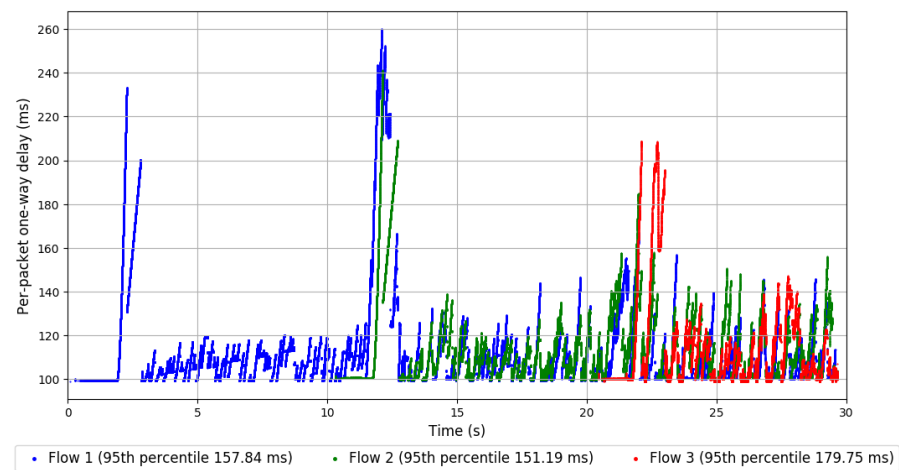
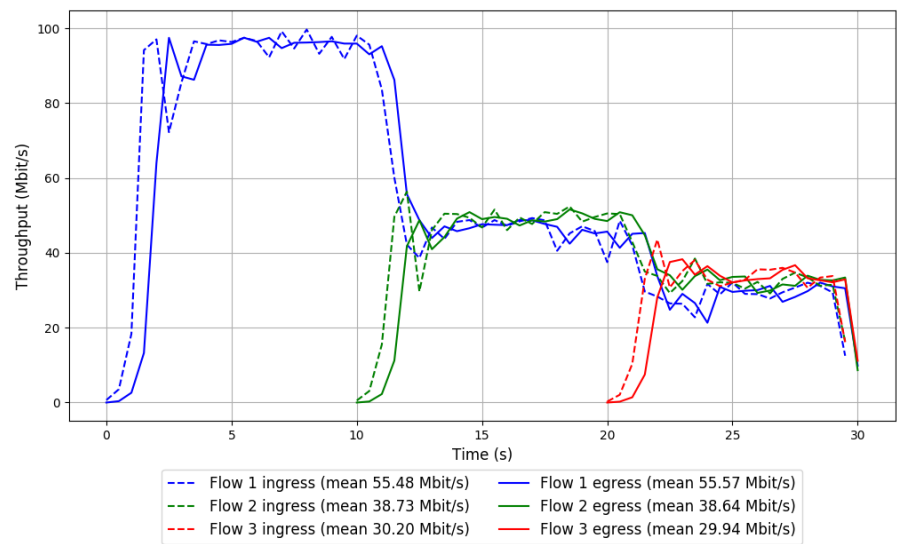
-- Flow 3:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 179.747 ms

Loss rate: 2.62%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 13:50:40

End at: 2019-08-27 13:51:10

Local clock offset: 0.54 ms

Remote clock offset: -4.06 ms

# Below is generated by plot.py at 2019-08-27 14:12:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.08 Mbit/s

95th percentile per-packet one-way delay: 168.762 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 170.167 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 164.384 ms

Loss rate: 1.00%

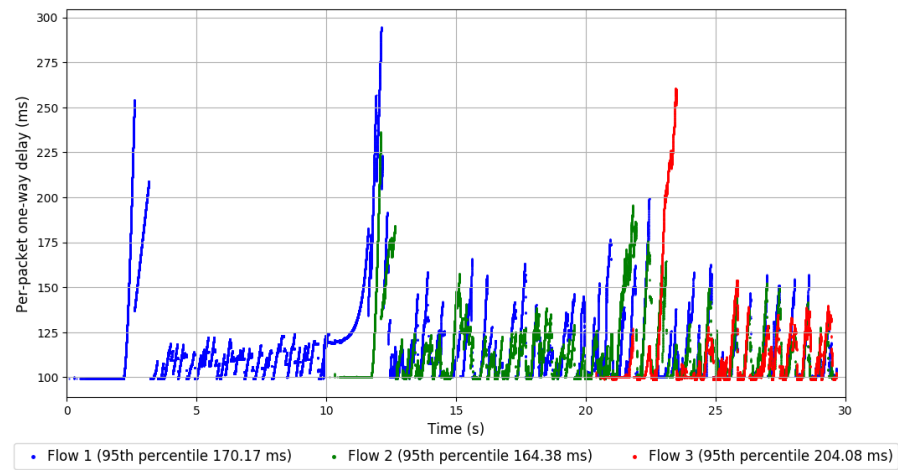
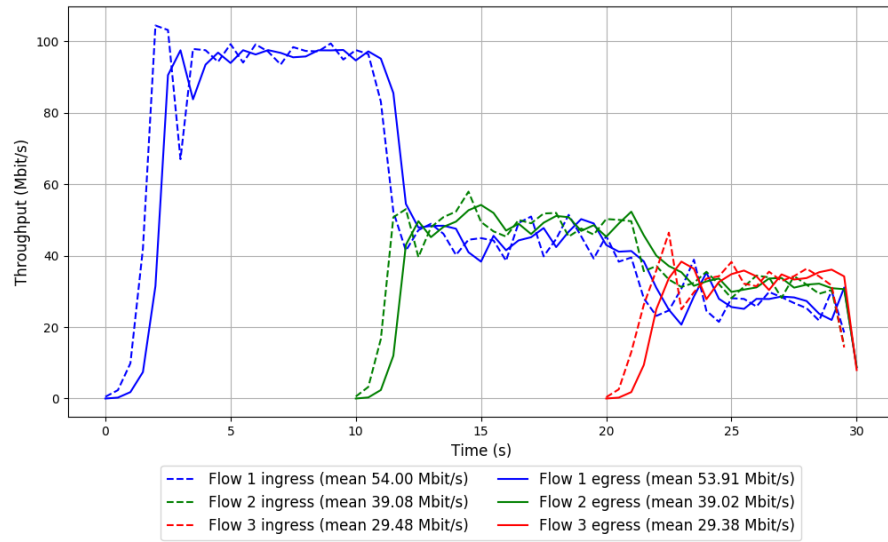
-- Flow 3:

Average throughput: 29.38 Mbit/s

95th percentile per-packet one-way delay: 204.077 ms

Loss rate: 2.14%

# Run 5: Report of Muses\_DecisionTreeR0 — Data Link

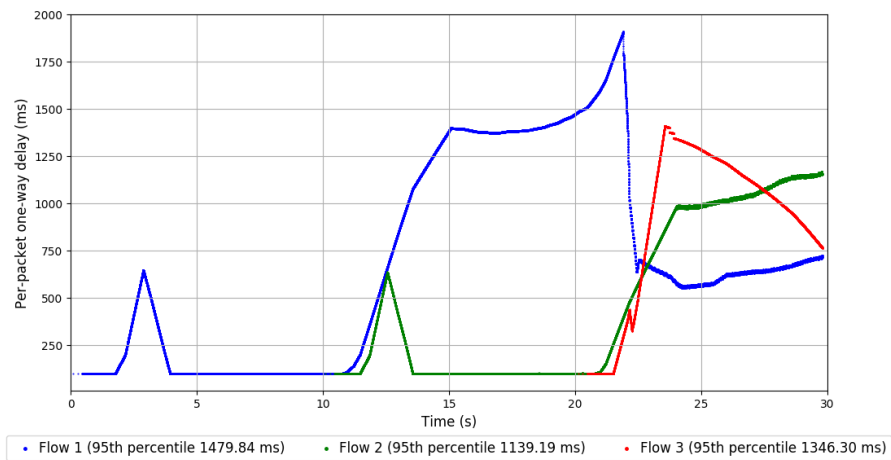
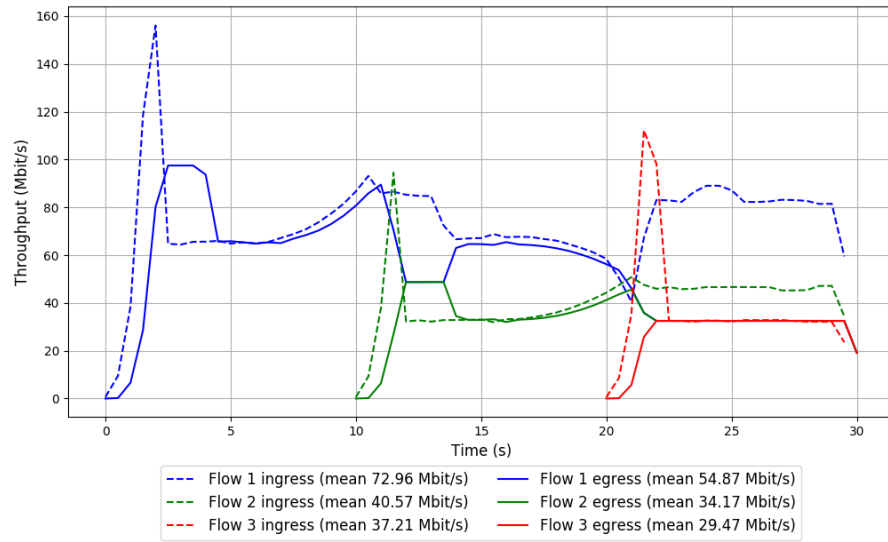


Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 11:38:58  
End at: 2019-08-27 11:39:28  
Local clock offset: -0.334 ms  
Remote clock offset: -9.139 ms

# Below is generated by plot.py at 2019-08-27 14:13:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.14 Mbit/s  
95th percentile per-packet one-way delay: 1424.242 ms  
Loss rate: 22.78%  
-- Flow 1:  
Average throughput: 54.87 Mbit/s  
95th percentile per-packet one-way delay: 1479.838 ms  
Loss rate: 25.21%  
-- Flow 2:  
Average throughput: 34.17 Mbit/s  
95th percentile per-packet one-way delay: 1139.189 ms  
Loss rate: 16.51%  
-- Flow 3:  
Average throughput: 29.47 Mbit/s  
95th percentile per-packet one-way delay: 1346.297 ms  
Loss rate: 22.16%

# Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 12:09:55

End at: 2019-08-27 12:10:25

Local clock offset: -0.328 ms

Remote clock offset: -3.63 ms

# Below is generated by plot.py at 2019-08-27 14:13:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 1432.652 ms

Loss rate: 22.44%

-- Flow 1:

Average throughput: 54.23 Mbit/s

95th percentile per-packet one-way delay: 1489.259 ms

Loss rate: 24.87%

-- Flow 2:

Average throughput: 34.27 Mbit/s

95th percentile per-packet one-way delay: 1129.225 ms

Loss rate: 16.55%

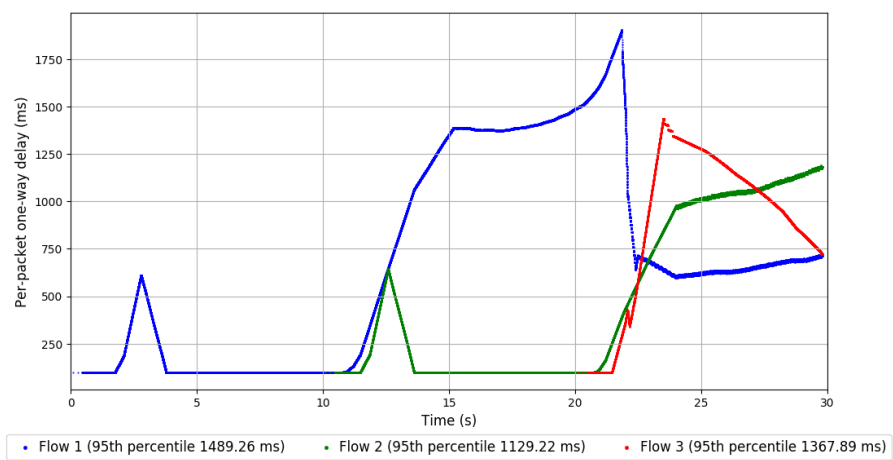
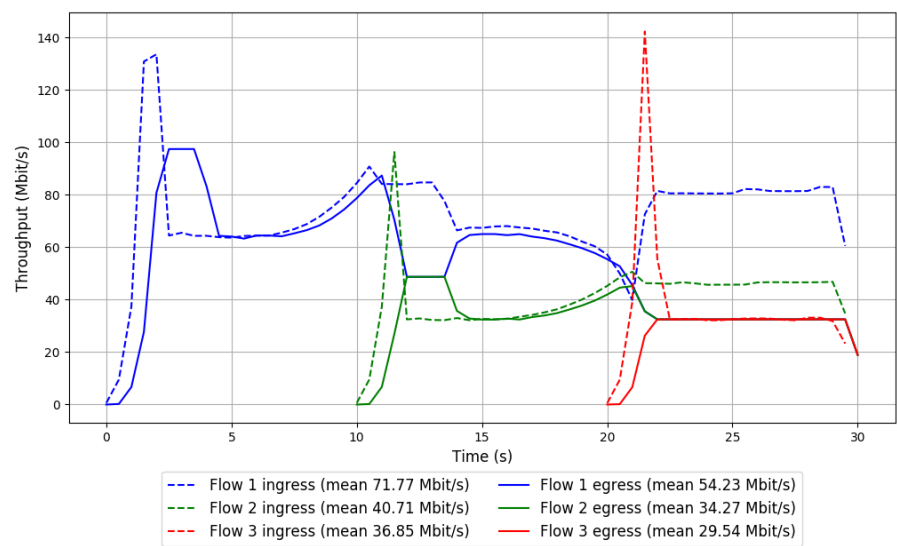
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 1367.887 ms

Loss rate: 21.22%

Run 2: Report of PCC-Allegro — Data Link



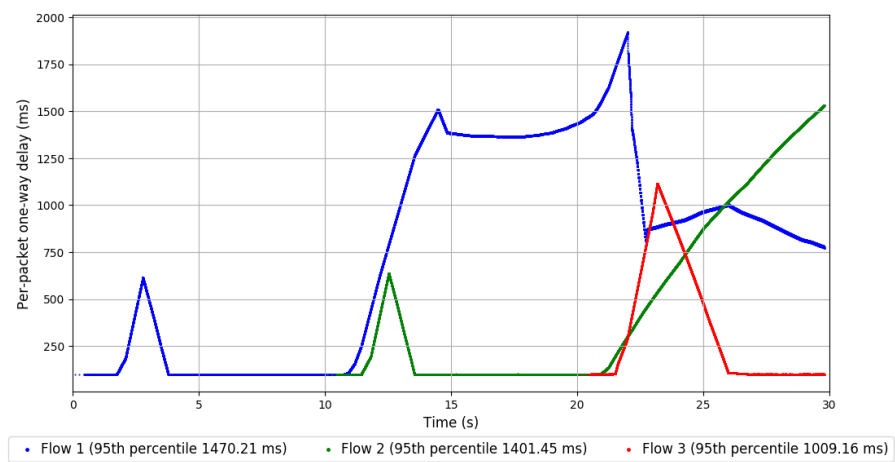
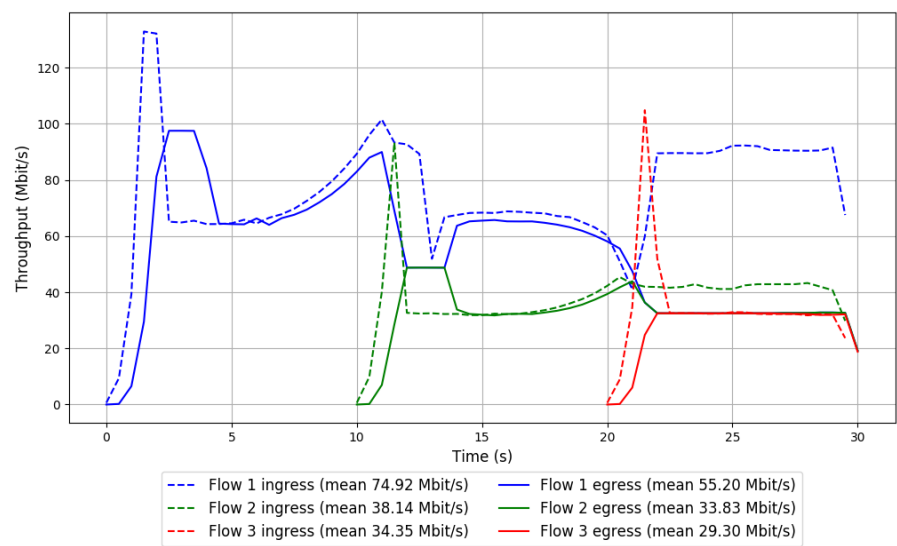


Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 12:40:52  
End at: 2019-08-27 12:41:22  
Local clock offset: -0.223 ms  
Remote clock offset: -6.037 ms

# Below is generated by plot.py at 2019-08-27 14:13:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.19 Mbit/s  
95th percentile per-packet one-way delay: 1446.762 ms  
Loss rate: 22.34%  
-- Flow 1:  
Average throughput: 55.20 Mbit/s  
95th percentile per-packet one-way delay: 1470.212 ms  
Loss rate: 26.75%  
-- Flow 2:  
Average throughput: 33.83 Mbit/s  
95th percentile per-packet one-way delay: 1401.454 ms  
Loss rate: 12.07%  
-- Flow 3:  
Average throughput: 29.30 Mbit/s  
95th percentile per-packet one-way delay: 1009.158 ms  
Loss rate: 16.21%

Run 3: Report of PCC-Allegro — Data Link

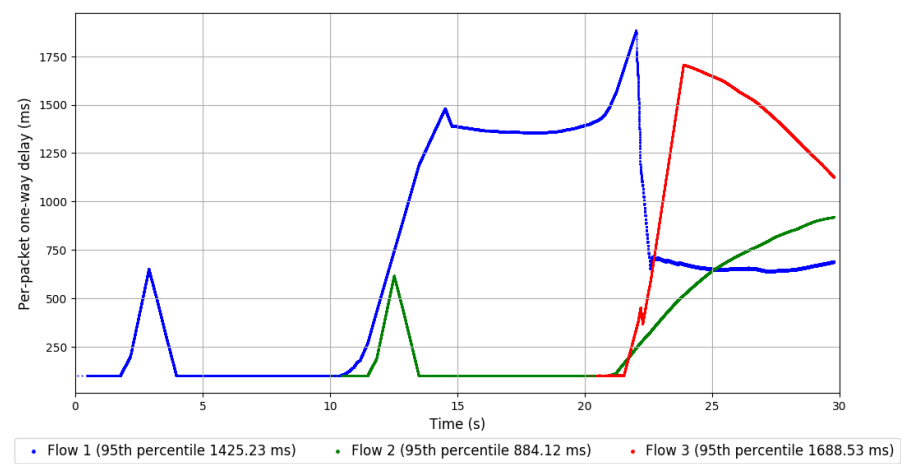
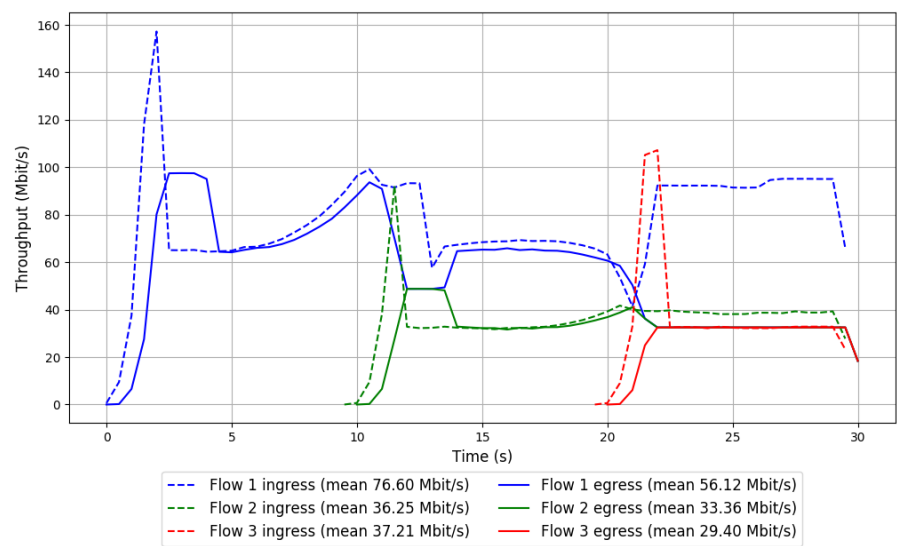


Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 13:11:49  
End at: 2019-08-27 13:12:19  
Local clock offset: 0.62 ms  
Remote clock offset: -8.178 ms

# Below is generated by plot.py at 2019-08-27 14:13:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.85 Mbit/s  
95th percentile per-packet one-way delay: 1523.053 ms  
Loss rate: 22.71%  
-- Flow 1:  
Average throughput: 56.12 Mbit/s  
95th percentile per-packet one-way delay: 1425.232 ms  
Loss rate: 27.15%  
-- Flow 2:  
Average throughput: 33.36 Mbit/s  
95th percentile per-packet one-way delay: 884.121 ms  
Loss rate: 8.76%  
-- Flow 3:  
Average throughput: 29.40 Mbit/s  
95th percentile per-packet one-way delay: 1688.527 ms  
Loss rate: 22.38%

Run 4: Report of PCC-Allegro — Data Link

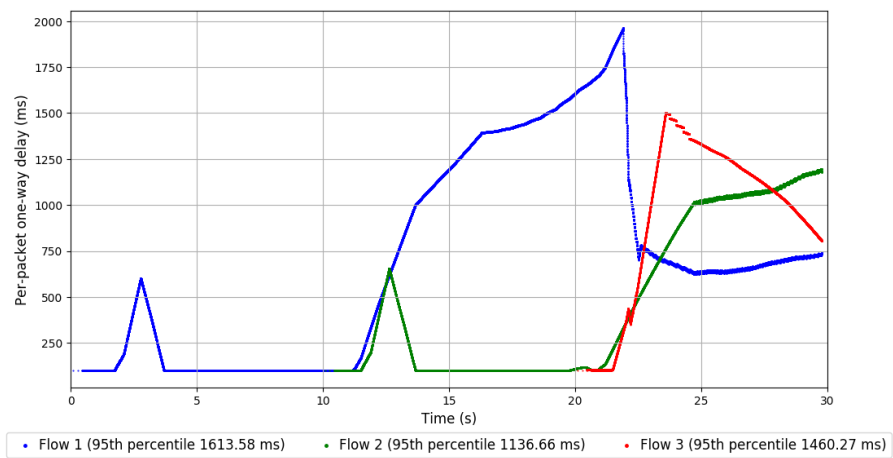
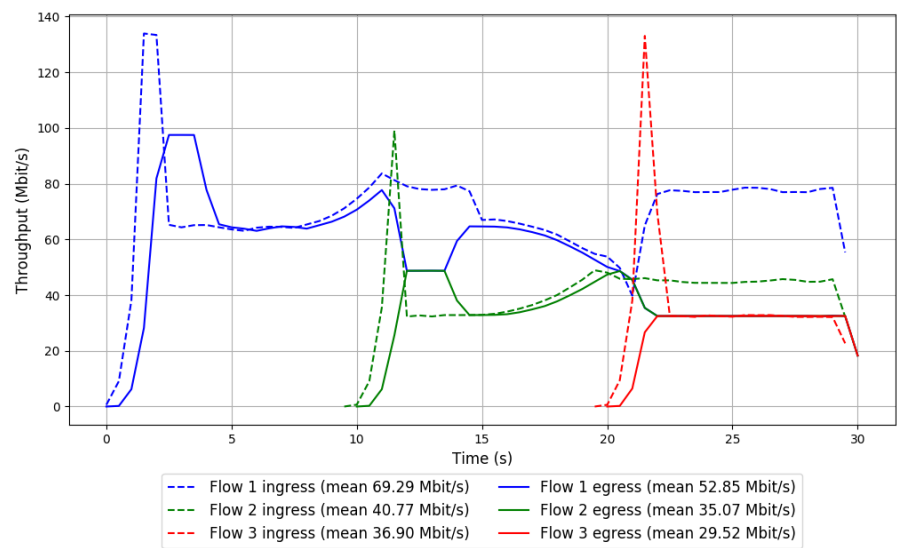


Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 13:42:46  
End at: 2019-08-27 13:43:16  
Local clock offset: 0.536 ms  
Remote clock offset: -6.306 ms

# Below is generated by plot.py at 2019-08-27 14:13:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.75 Mbit/s  
95th percentile per-packet one-way delay: 1513.936 ms  
Loss rate: 21.49%  
-- Flow 1:  
Average throughput: 52.85 Mbit/s  
95th percentile per-packet one-way delay: 1613.579 ms  
Loss rate: 24.16%  
-- Flow 2:  
Average throughput: 35.07 Mbit/s  
95th percentile per-packet one-way delay: 1136.661 ms  
Loss rate: 14.72%  
-- Flow 3:  
Average throughput: 29.52 Mbit/s  
95th percentile per-packet one-way delay: 1460.265 ms  
Loss rate: 21.41%

Run 5: Report of PCC-Allegro — Data Link

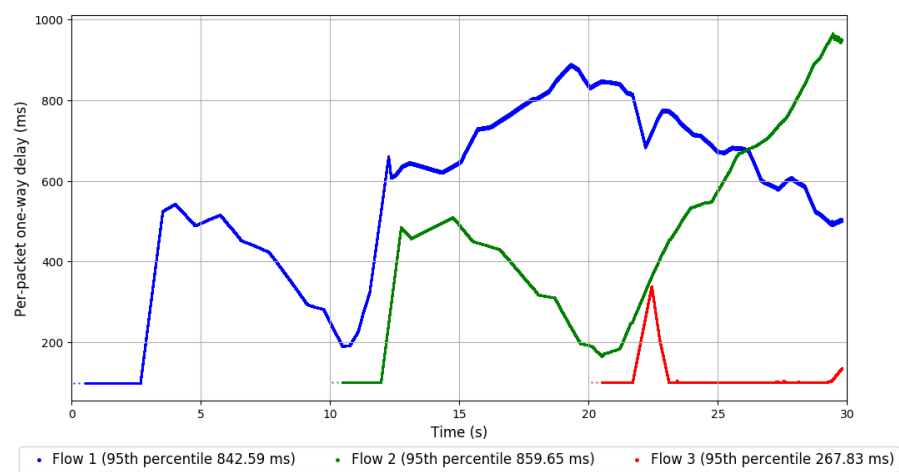
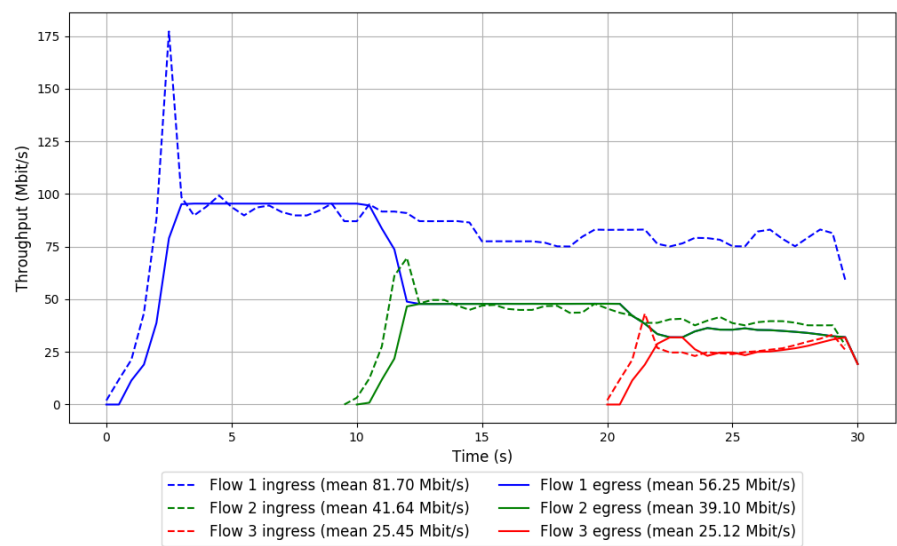


```
Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 11:31:11
End at: 2019-08-27 11:31:42
Local clock offset: -0.351 ms
Remote clock offset: -8.396 ms

# Below is generated by plot.py at 2019-08-27 14:15:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.40 Mbit/s
95th percentile per-packet one-way delay: 840.909 ms
Loss rate: 23.71%
-- Flow 1:
Average throughput: 56.25 Mbit/s
95th percentile per-packet one-way delay: 842.589 ms
Loss rate: 31.54%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 859.653 ms
Loss rate: 6.91%
-- Flow 3:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 267.833 ms
Loss rate: 3.02%
```

Run 1: Report of PCC-Expr — Data Link



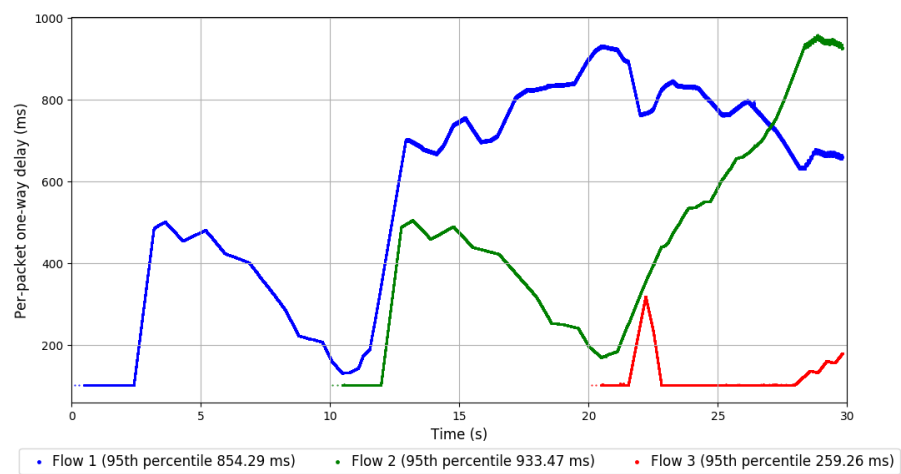
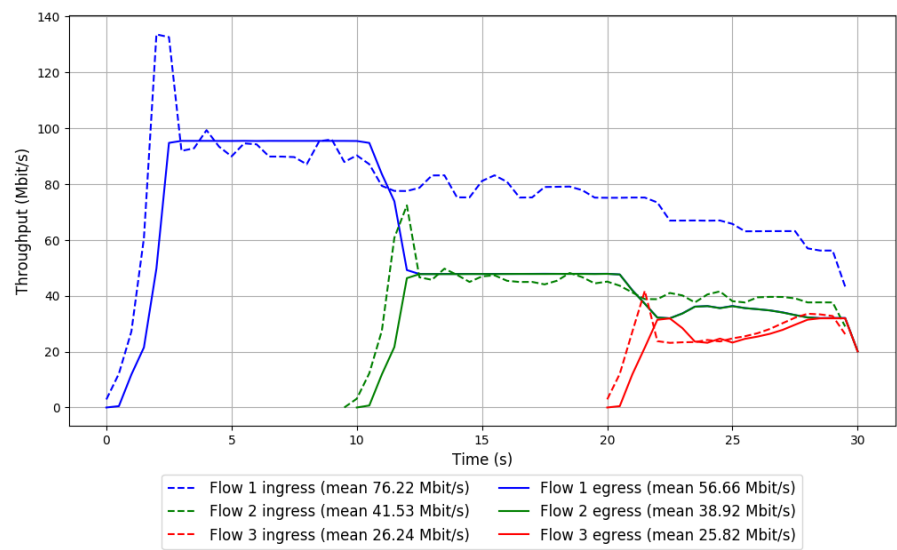


Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 12:02:08  
End at: 2019-08-27 12:02:38  
Local clock offset: 0.453 ms  
Remote clock offset: -6.378 ms

# Below is generated by plot.py at 2019-08-27 14:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.92 Mbit/s  
95th percentile per-packet one-way delay: 861.995 ms  
Loss rate: 19.67%  
-- Flow 1:  
Average throughput: 56.66 Mbit/s  
95th percentile per-packet one-way delay: 854.295 ms  
Loss rate: 26.09%  
-- Flow 2:  
Average throughput: 38.92 Mbit/s  
95th percentile per-packet one-way delay: 933.471 ms  
Loss rate: 7.11%  
-- Flow 3:  
Average throughput: 25.82 Mbit/s  
95th percentile per-packet one-way delay: 259.263 ms  
Loss rate: 3.34%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 12:33:05

End at: 2019-08-27 12:33:35

Local clock offset: 0.528 ms

Remote clock offset: -6.78 ms

# Below is generated by plot.py at 2019-08-27 14:15:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.95 Mbit/s

95th percentile per-packet one-way delay: 874.958 ms

Loss rate: 20.01%

-- Flow 1:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 890.598 ms

Loss rate: 27.16%

-- Flow 2:

Average throughput: 38.95 Mbit/s

95th percentile per-packet one-way delay: 691.713 ms

Loss rate: 4.84%

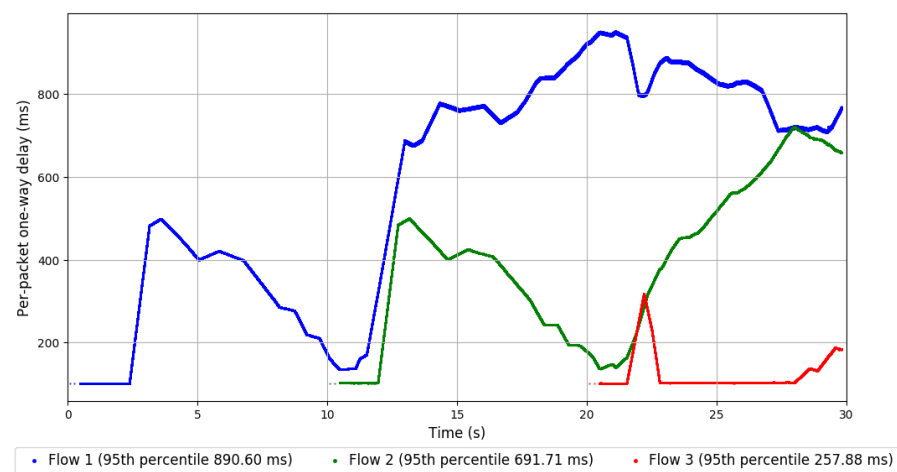
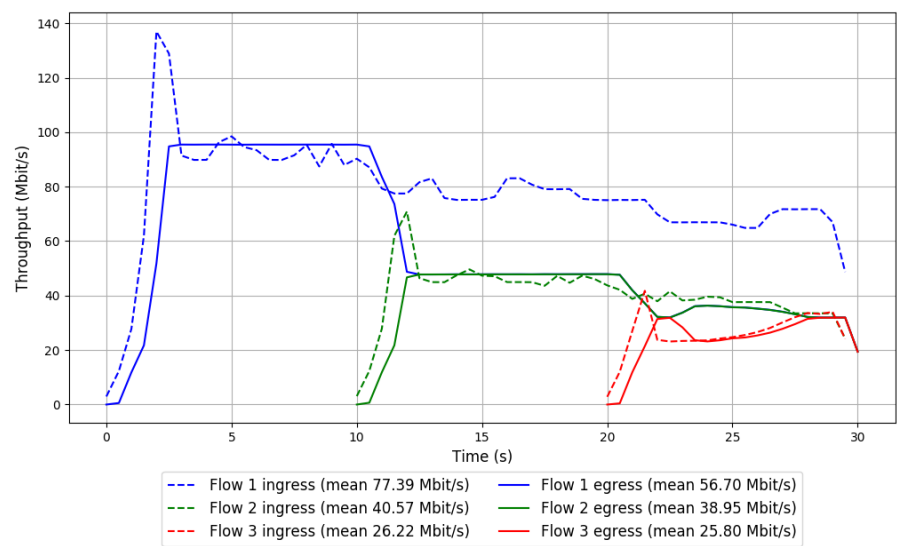
-- Flow 3:

Average throughput: 25.80 Mbit/s

95th percentile per-packet one-way delay: 257.885 ms

Loss rate: 3.30%

Run 3: Report of PCC-Expr — Data Link

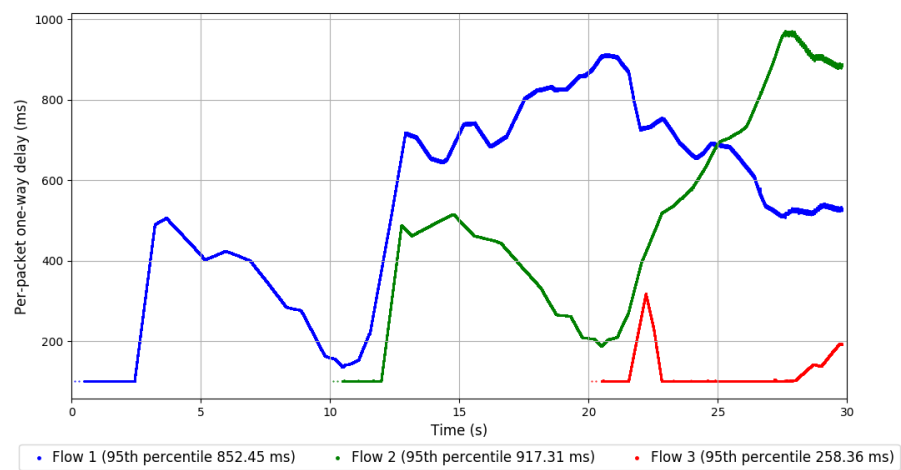
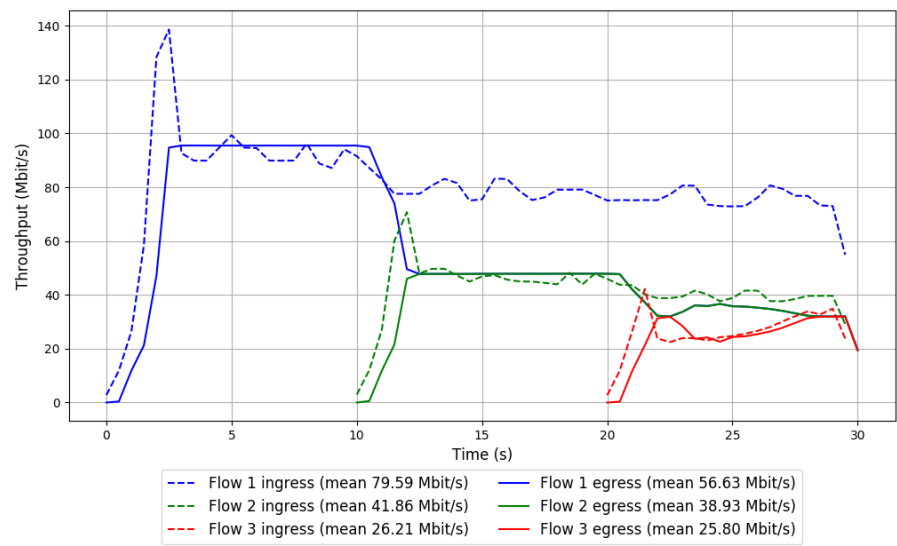


Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 13:04:02  
End at: 2019-08-27 13:04:32  
Local clock offset: 0.614 ms  
Remote clock offset: -7.188 ms

# Below is generated by plot.py at 2019-08-27 14:15:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.87 Mbit/s  
95th percentile per-packet one-way delay: 876.167 ms  
Loss rate: 22.18%  
-- Flow 1:  
Average throughput: 56.63 Mbit/s  
95th percentile per-packet one-way delay: 852.447 ms  
Loss rate: 29.25%  
-- Flow 2:  
Average throughput: 38.93 Mbit/s  
95th percentile per-packet one-way delay: 917.314 ms  
Loss rate: 7.81%  
-- Flow 3:  
Average throughput: 25.80 Mbit/s  
95th percentile per-packet one-way delay: 258.360 ms  
Loss rate: 3.32%

Run 4: Report of PCC-Expr — Data Link

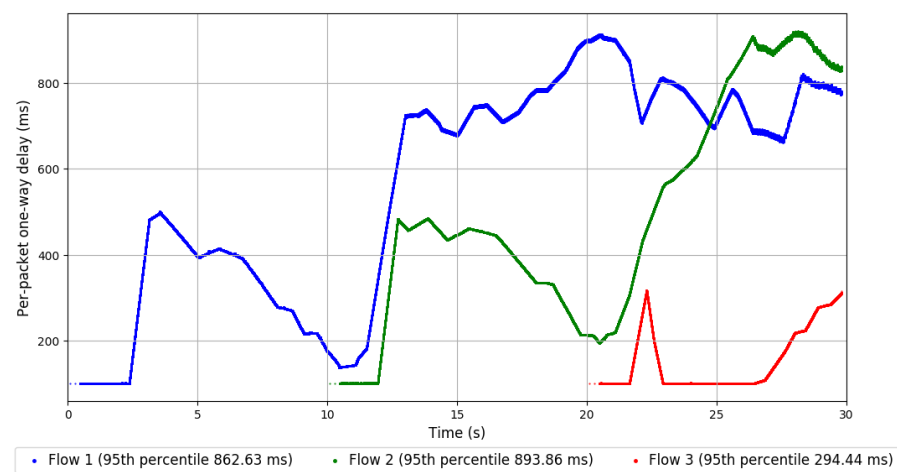
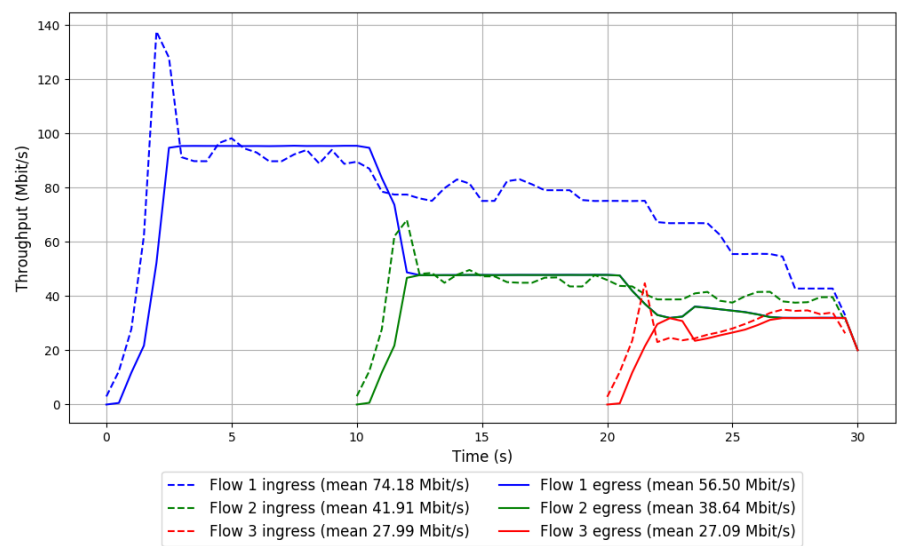


Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 13:34:59  
End at: 2019-08-27 13:35:29  
Local clock offset: 0.556 ms  
Remote clock offset: -6.598 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.97 Mbit/s  
95th percentile per-packet one-way delay: 879.197 ms  
Loss rate: 18.73%  
-- Flow 1:  
Average throughput: 56.50 Mbit/s  
95th percentile per-packet one-way delay: 862.633 ms  
Loss rate: 24.27%  
-- Flow 2:  
Average throughput: 38.64 Mbit/s  
95th percentile per-packet one-way delay: 893.860 ms  
Loss rate: 8.61%  
-- Flow 3:  
Average throughput: 27.09 Mbit/s  
95th percentile per-packet one-way delay: 294.435 ms  
Loss rate: 4.88%

Run 5: Report of PCC-Expr — Data Link



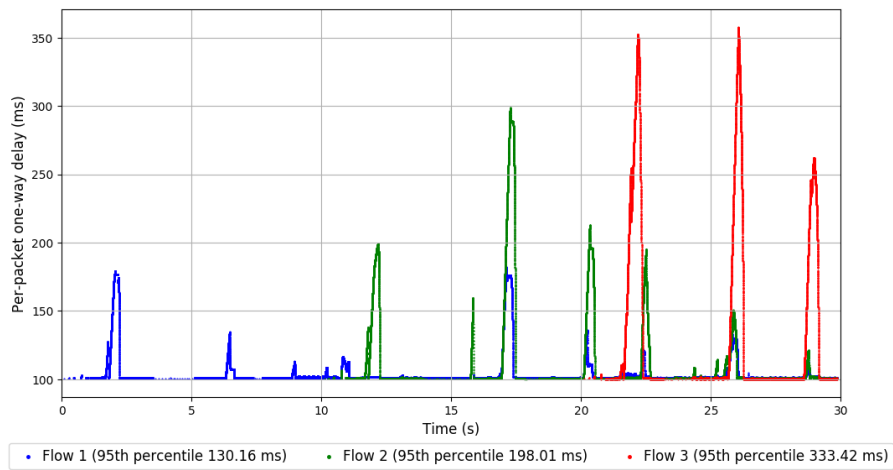
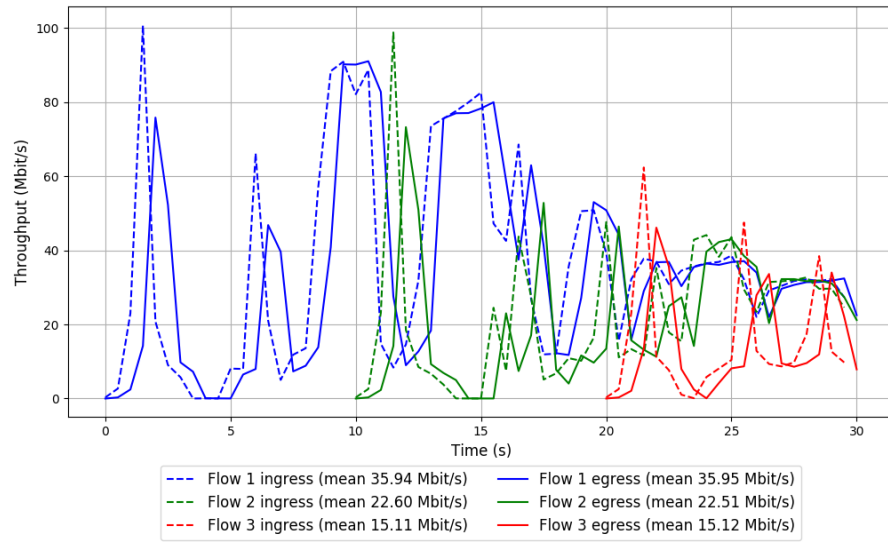


Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 11:26:07  
End at: 2019-08-27 11:26:37  
Local clock offset: -0.425 ms  
Remote clock offset: -10.025 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.83 Mbit/s  
95th percentile per-packet one-way delay: 195.628 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 35.95 Mbit/s  
95th percentile per-packet one-way delay: 130.156 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 22.51 Mbit/s  
95th percentile per-packet one-way delay: 198.010 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 15.12 Mbit/s  
95th percentile per-packet one-way delay: 333.424 ms  
Loss rate: 1.67%

## Run 1: Report of QUIC Cubic — Data Link

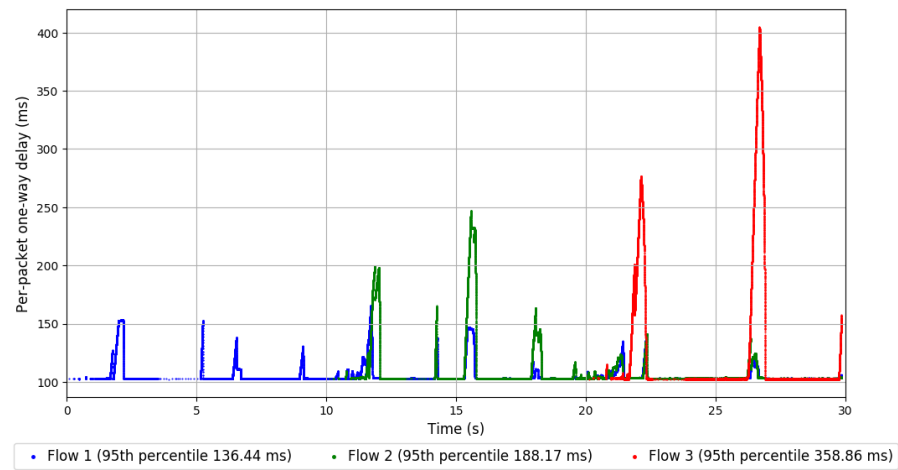
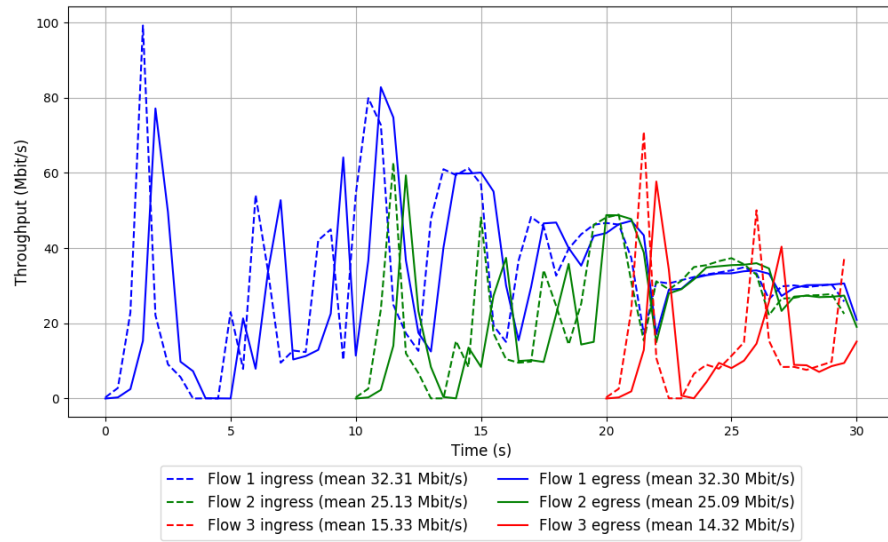


Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 11:57:03  
End at: 2019-08-27 11:57:33  
Local clock offset: -0.386 ms  
Remote clock offset: -8.109 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.63 Mbit/s  
95th percentile per-packet one-way delay: 177.032 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 32.30 Mbit/s  
95th percentile per-packet one-way delay: 136.445 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 25.09 Mbit/s  
95th percentile per-packet one-way delay: 188.171 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 14.32 Mbit/s  
95th percentile per-packet one-way delay: 358.861 ms  
Loss rate: 8.18%

## Run 2: Report of QUIC Cubic — Data Link

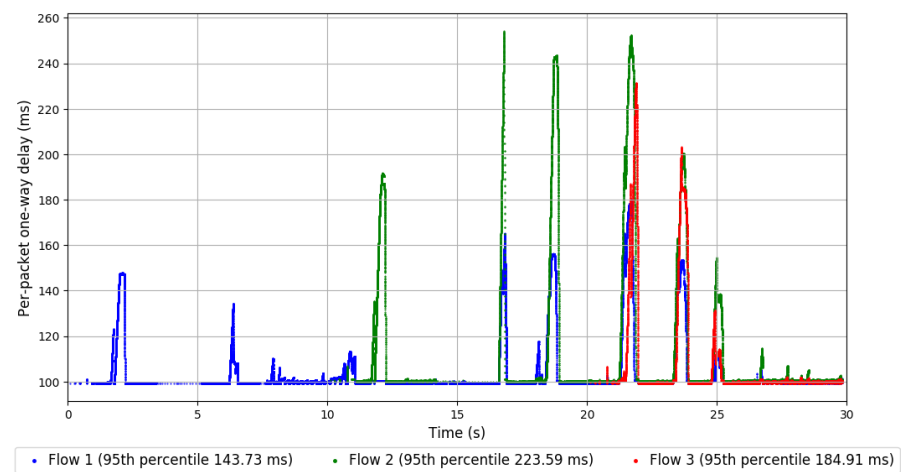
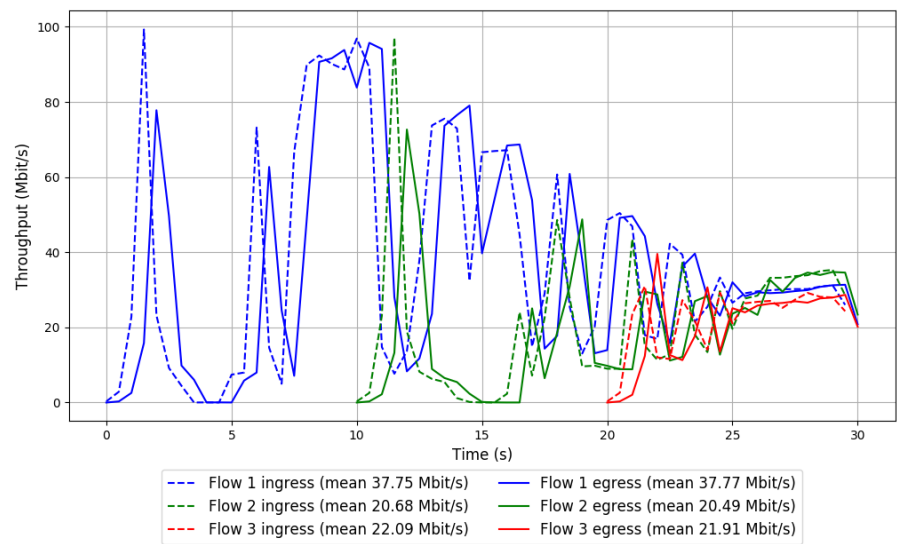


Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 12:28:00  
End at: 2019-08-27 12:28:30  
Local clock offset: 0.496 ms  
Remote clock offset: -5.372 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.52 Mbit/s  
95th percentile per-packet one-way delay: 174.321 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 37.77 Mbit/s  
95th percentile per-packet one-way delay: 143.730 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 20.49 Mbit/s  
95th percentile per-packet one-way delay: 223.592 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 21.91 Mbit/s  
95th percentile per-packet one-way delay: 184.913 ms  
Loss rate: 2.51%

Run 3: Report of QUIC Cubic — Data Link

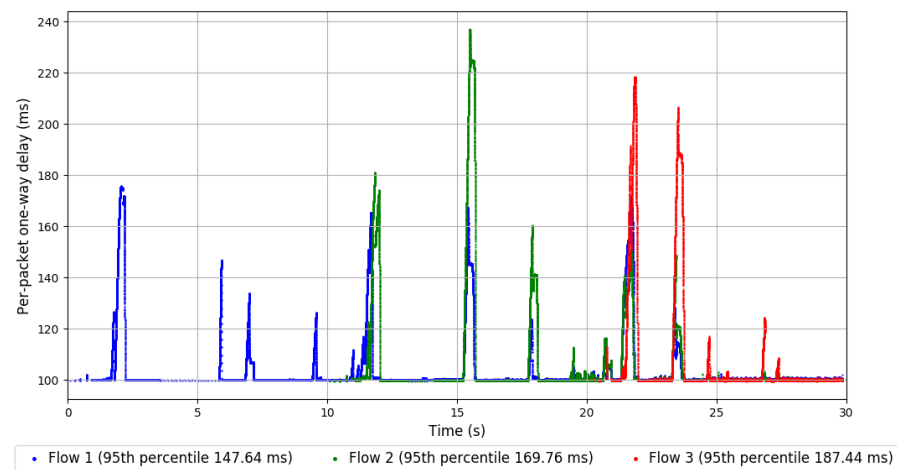
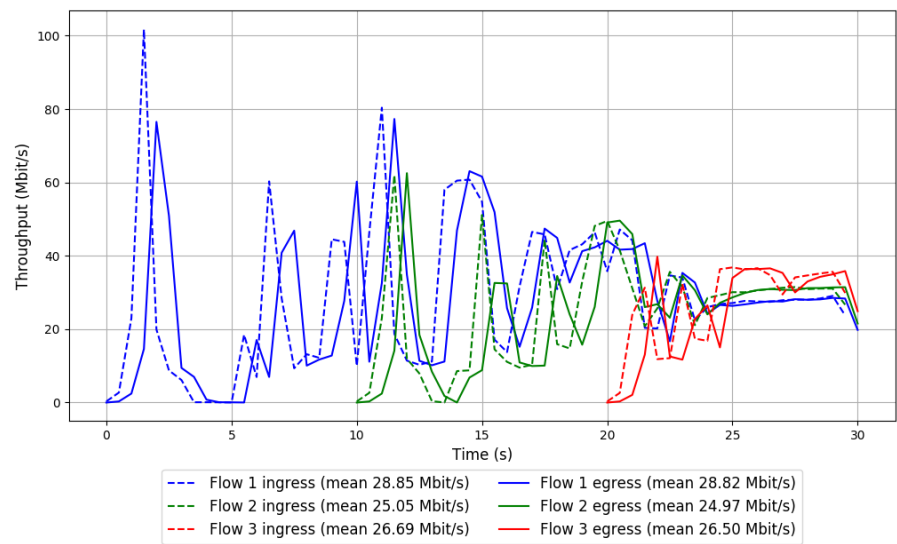


Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 12:58:57  
End at: 2019-08-27 12:59:27  
Local clock offset: -0.177 ms  
Remote clock offset: -7.178 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.05 Mbit/s  
95th percentile per-packet one-way delay: 162.360 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 28.82 Mbit/s  
95th percentile per-packet one-way delay: 147.642 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 24.97 Mbit/s  
95th percentile per-packet one-way delay: 169.764 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 26.50 Mbit/s  
95th percentile per-packet one-way delay: 187.436 ms  
Loss rate: 2.47%

Run 4: Report of QUIC Cubic — Data Link



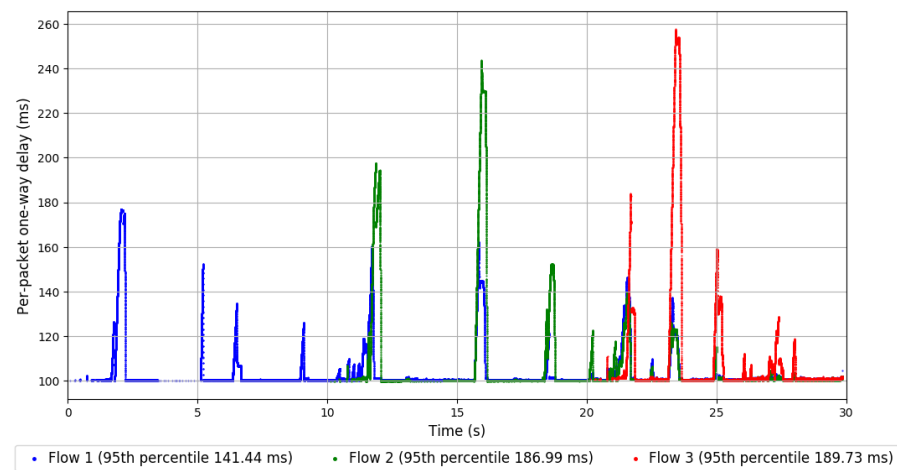
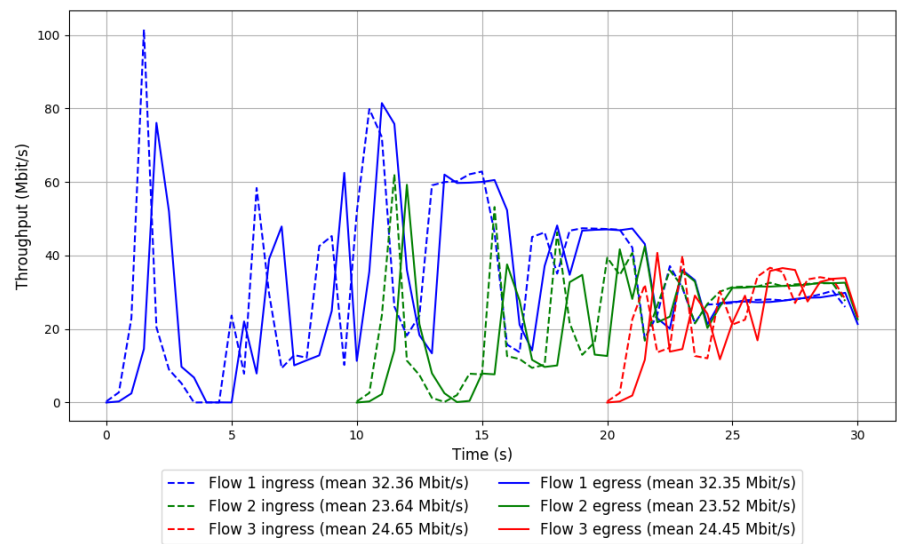


Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 13:29:54  
End at: 2019-08-27 13:30:24  
Local clock offset: -0.233 ms  
Remote clock offset: -6.587 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.93 Mbit/s  
95th percentile per-packet one-way delay: 157.032 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 32.35 Mbit/s  
95th percentile per-packet one-way delay: 141.436 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 23.52 Mbit/s  
95th percentile per-packet one-way delay: 186.993 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 24.45 Mbit/s  
95th percentile per-packet one-way delay: 189.729 ms  
Loss rate: 2.54%

Run 5: Report of QUIC Cubic — Data Link

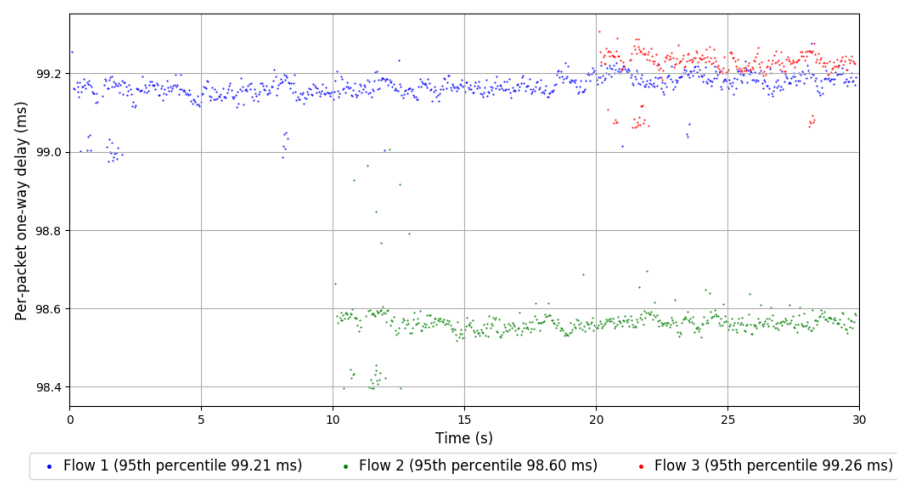
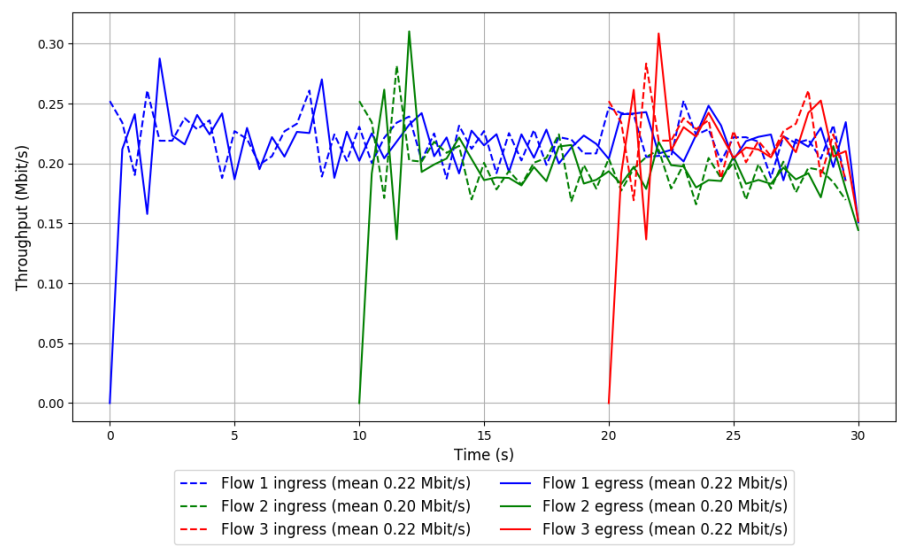


Run 1: Statistics of SReAM

Start at: 2019-08-27 11:53:10  
End at: 2019-08-27 11:53:40  
Local clock offset: -0.343 ms  
Remote clock offset: -4.904 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 99.242 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 99.208 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 98.596 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 99.262 ms  
Loss rate: 1.85%

Run 1: Report of SReAM — Data Link

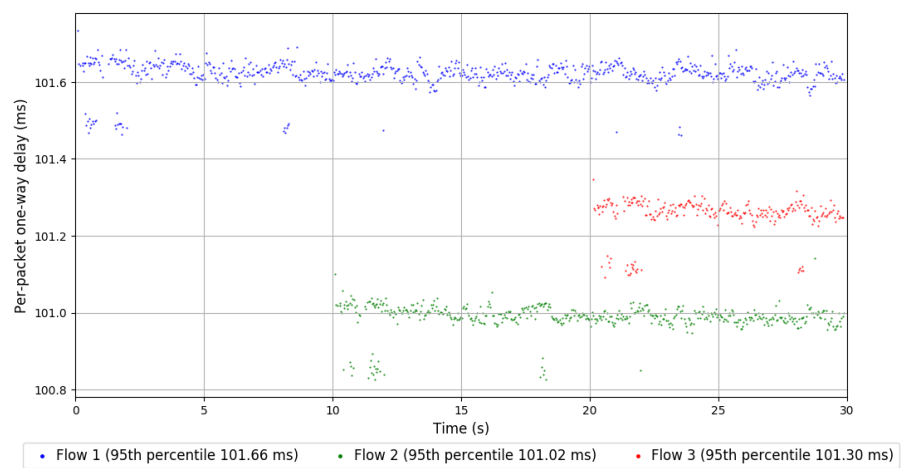
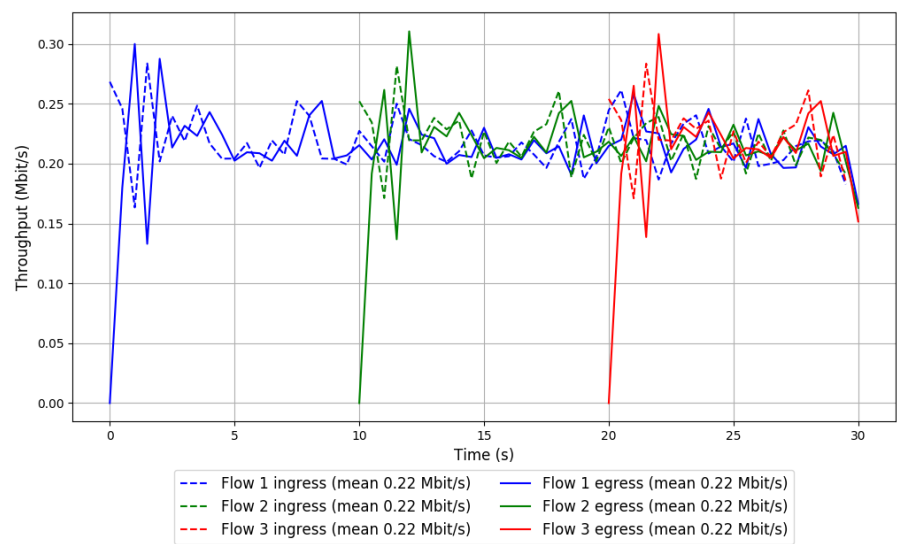


Run 2: Statistics of SReAM

Start at: 2019-08-27 12:24:07  
End at: 2019-08-27 12:24:37  
Local clock offset: 0.435 ms  
Remote clock offset: -6.998 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 101.651 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.658 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.024 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.298 ms  
Loss rate: 1.85%

Run 2: Report of SReAM — Data Link

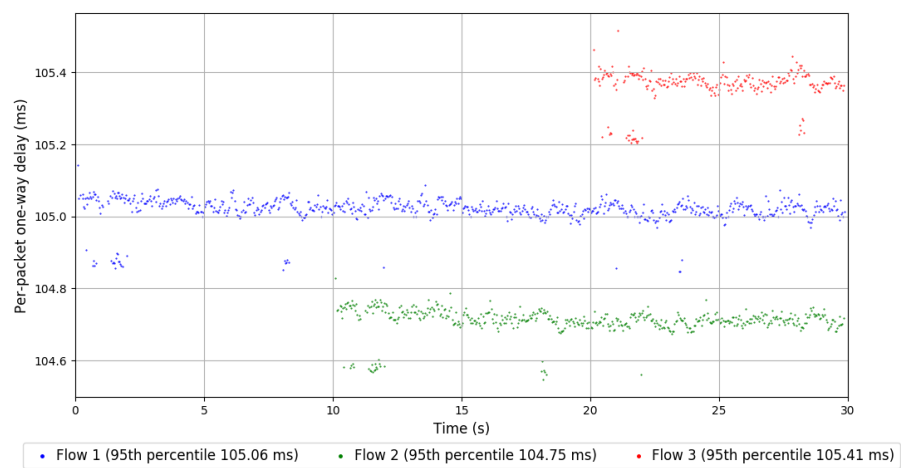
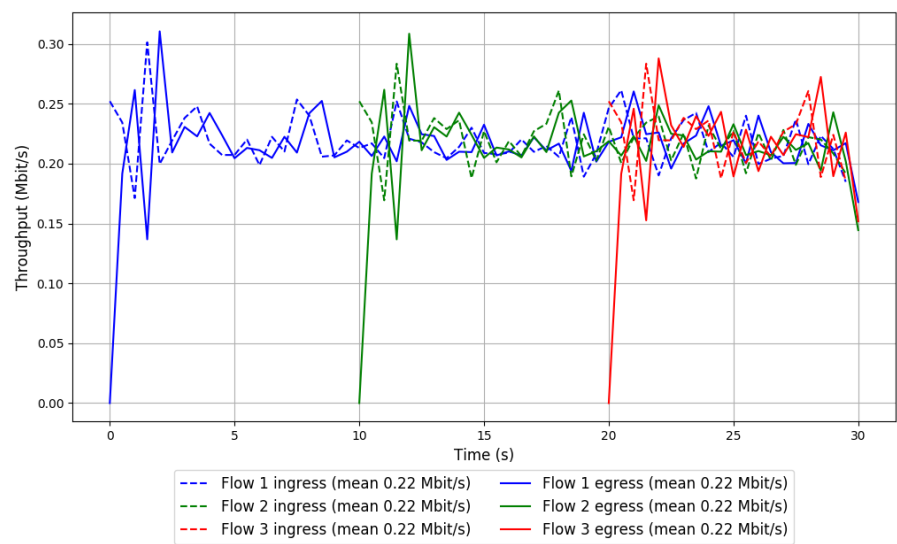


Run 3: Statistics of SReAM

Start at: 2019-08-27 12:55:04  
End at: 2019-08-27 12:55:34  
Local clock offset: 0.592 ms  
Remote clock offset: -11.716 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 105.385 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 105.056 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 104.753 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 105.408 ms  
Loss rate: 1.85%

Run 3: Report of SReAM — Data Link



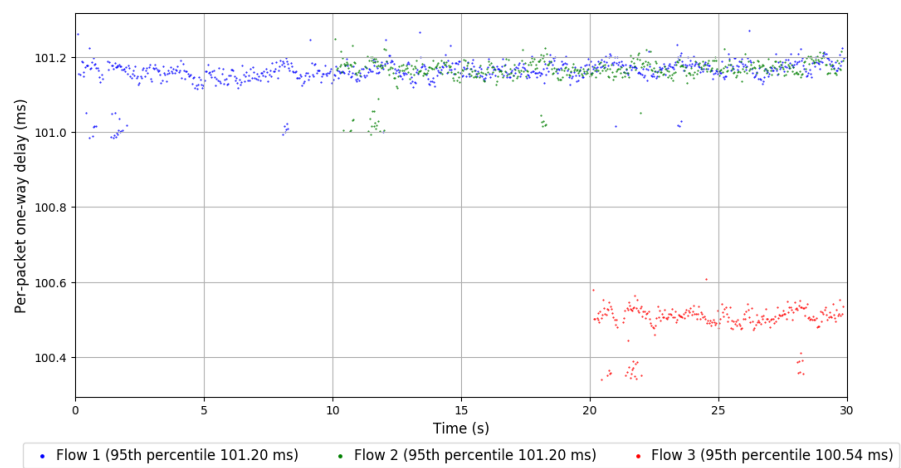
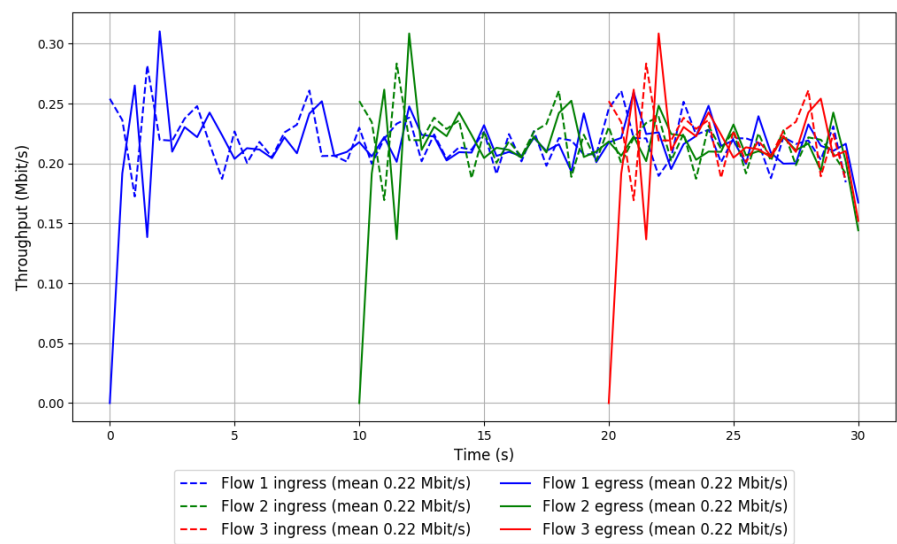


Run 4: Statistics of SReAM

Start at: 2019-08-27 13:26:01  
End at: 2019-08-27 13:26:31  
Local clock offset: 0.628 ms  
Remote clock offset: -6.833 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 101.197 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.199 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.200 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.541 ms  
Loss rate: 1.85%

Run 4: Report of SReAM — Data Link

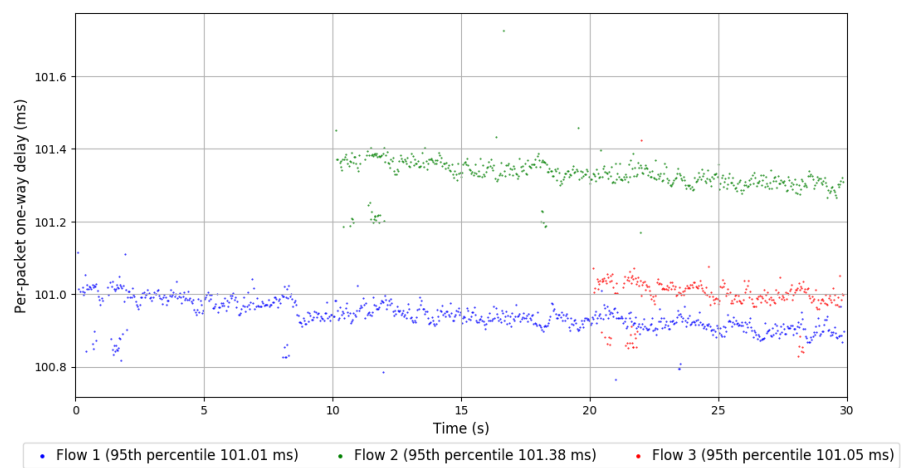
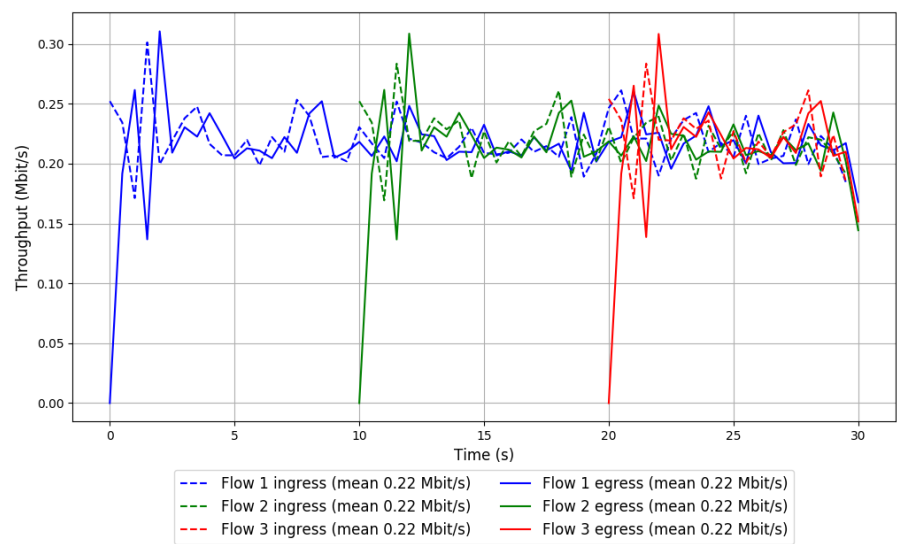


Run 5: Statistics of SReAM

Start at: 2019-08-27 13:57:20  
End at: 2019-08-27 13:57:50  
Local clock offset: 0.516 ms  
Remote clock offset: -7.263 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 101.366 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.012 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.383 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.046 ms  
Loss rate: 1.85%

Run 5: Report of SReAM — Data Link

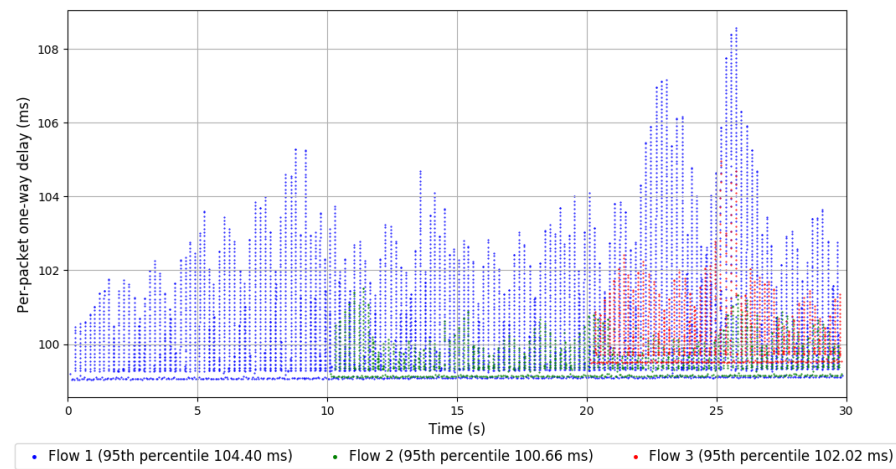
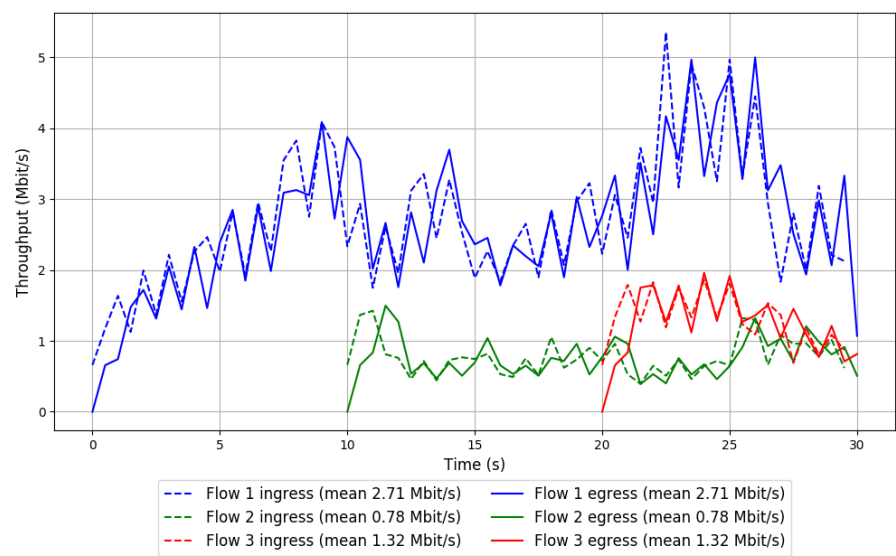


Run 1: Statistics of Sprout

Start at: 2019-08-27 11:49:22  
End at: 2019-08-27 11:49:52  
Local clock offset: -0.341 ms  
Remote clock offset: -5.713 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.65 Mbit/s  
95th percentile per-packet one-way delay: 103.871 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 2.71 Mbit/s  
95th percentile per-packet one-way delay: 104.396 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 0.78 Mbit/s  
95th percentile per-packet one-way delay: 100.663 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 1.32 Mbit/s  
95th percentile per-packet one-way delay: 102.023 ms  
Loss rate: 1.67%

Run 1: Report of Sprout — Data Link

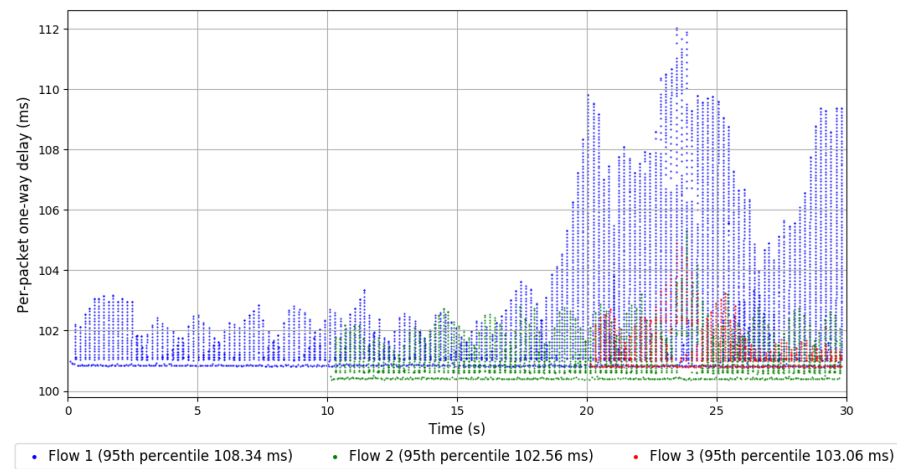
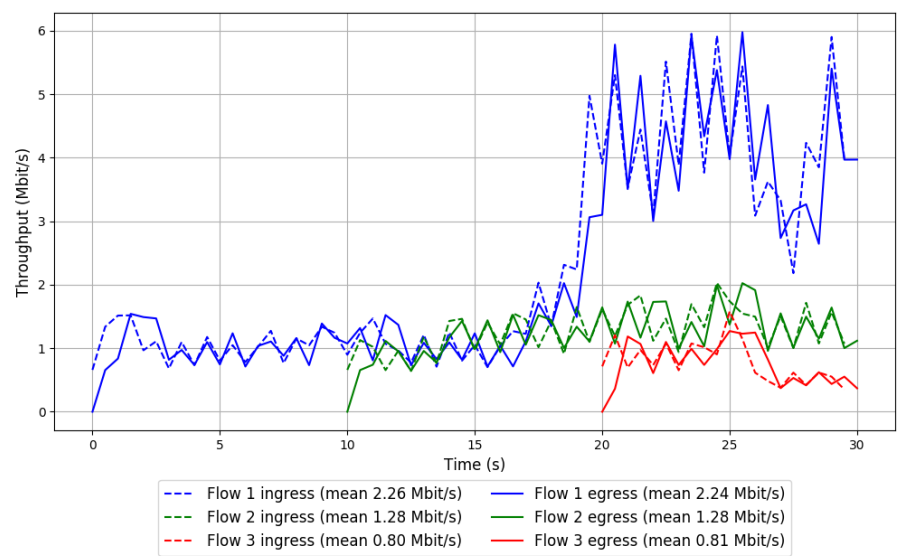


## Run 2: Statistics of Sprout

Start at: 2019-08-27 12:20:19  
End at: 2019-08-27 12:20:49  
Local clock offset: 0.477 ms  
Remote clock offset: -6.077 ms

```
# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 107.611 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 108.336 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 102.565 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 103.057 ms
Loss rate: 1.05%
```

Run 2: Report of Sprout — Data Link



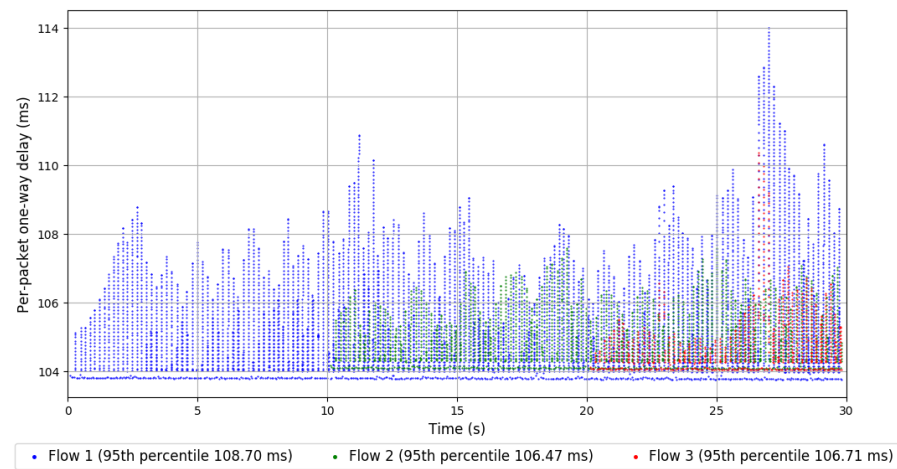
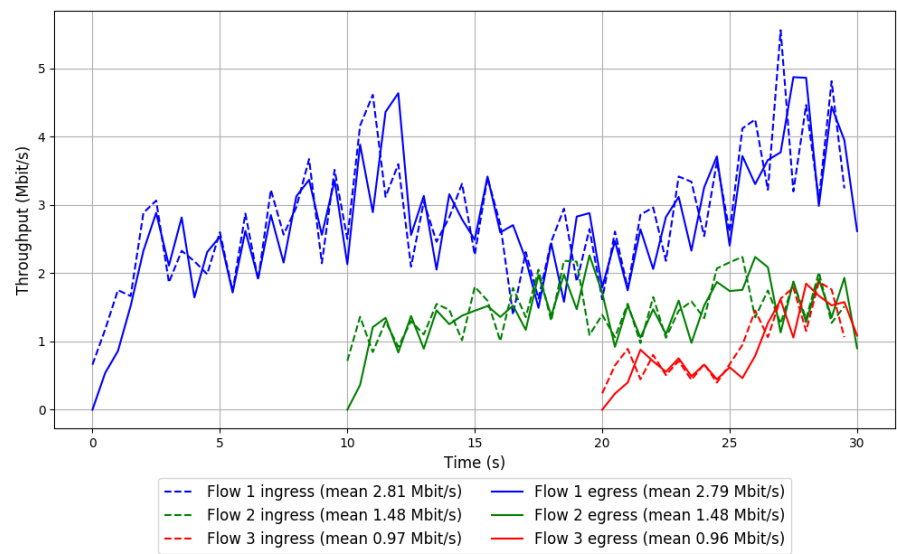


Run 3: Statistics of Sprout

Start at: 2019-08-27 12:51:16  
End at: 2019-08-27 12:51:46  
Local clock offset: 0.581 ms  
Remote clock offset: -10.341 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.08 Mbit/s  
95th percentile per-packet one-way delay: 108.215 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 2.79 Mbit/s  
95th percentile per-packet one-way delay: 108.704 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 106.475 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.96 Mbit/s  
95th percentile per-packet one-way delay: 106.714 ms  
Loss rate: 2.64%

Run 3: Report of Sprout — Data Link

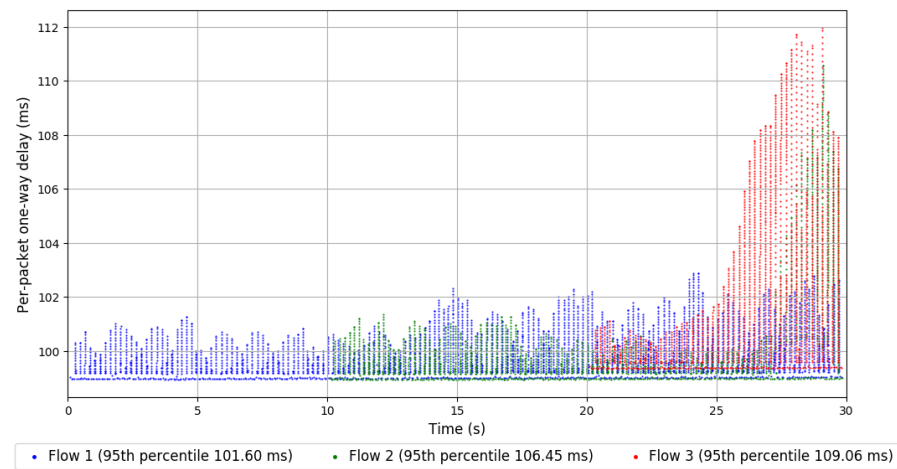
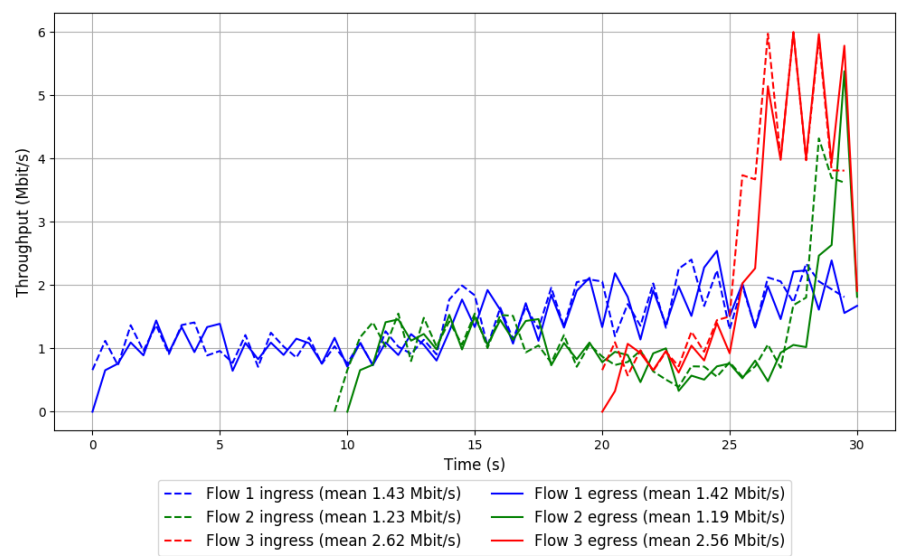


#### Run 4: Statistics of Sprout

Start at: 2019-08-27 13:22:13  
End at: 2019-08-27 13:22:43  
Local clock offset: -0.21 ms  
Remote clock offset: -6.409 ms

```
# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 106.839 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 101.598 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 106.454 ms
Loss rate: 3.80%
-- Flow 3:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 109.059 ms
Loss rate: 3.68%
```

Run 4: Report of Sprout — Data Link

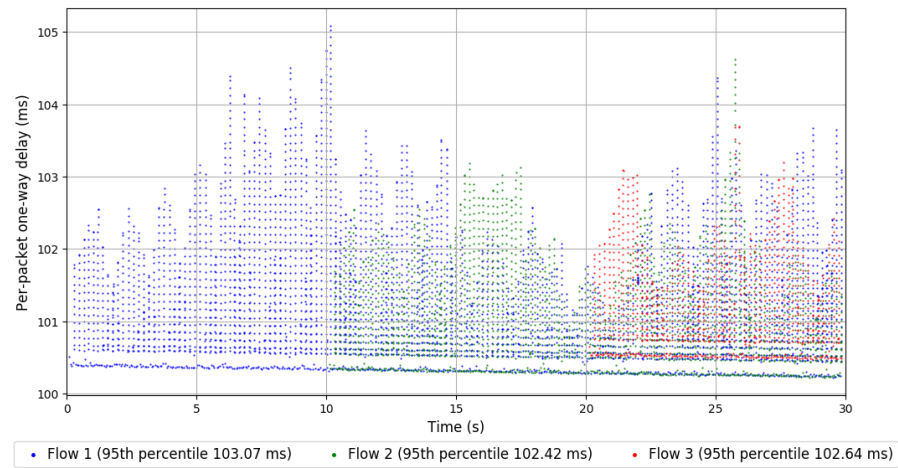
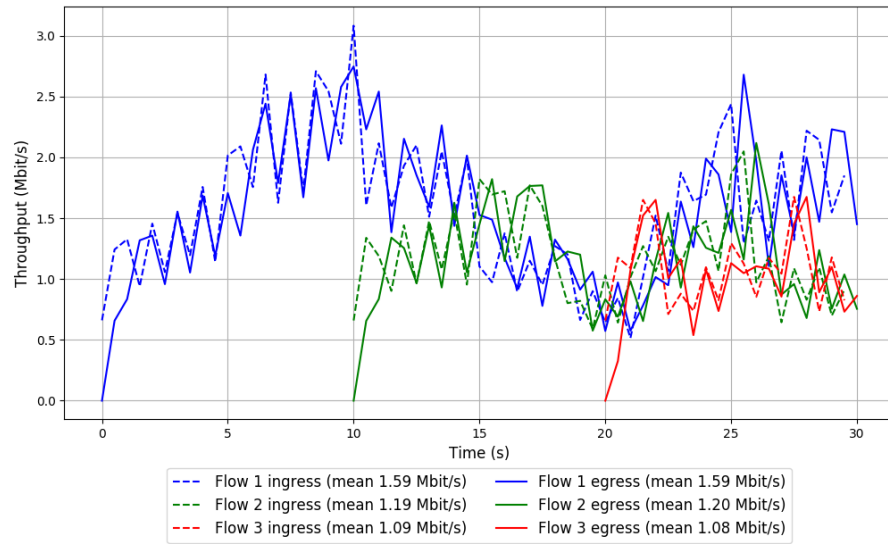


Run 5: Statistics of Sprout

Start at: 2019-08-27 13:53:27  
End at: 2019-08-27 13:53:57  
Local clock offset: 0.465 ms  
Remote clock offset: -6.167 ms

# Below is generated by plot.py at 2019-08-27 14:15:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.74 Mbit/s  
95th percentile per-packet one-way delay: 102.849 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 103.068 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 102.422 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 1.08 Mbit/s  
95th percentile per-packet one-way delay: 102.639 ms  
Loss rate: 1.92%

## Run 5: Report of Sprout — Data Link

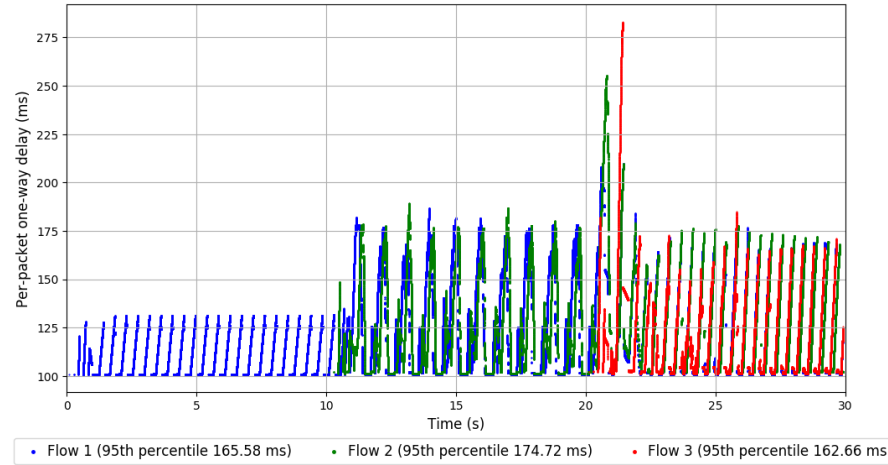
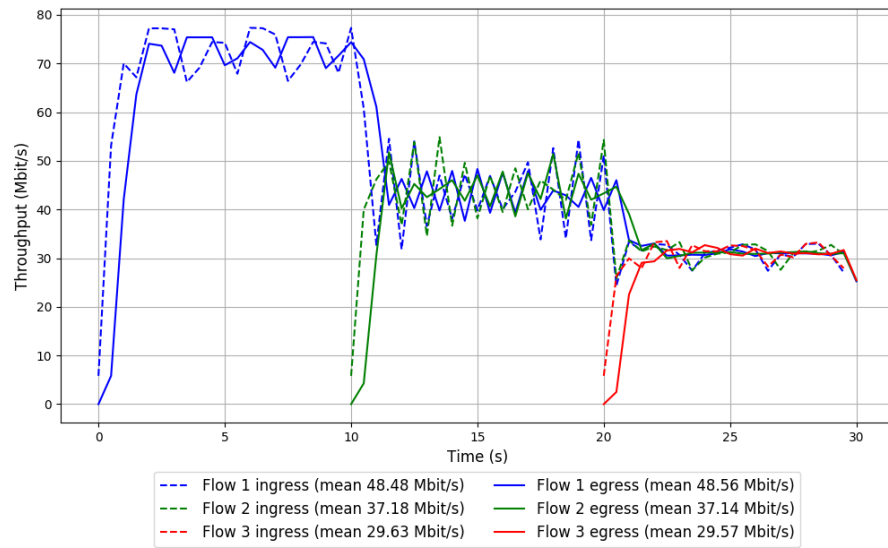


Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 11:54:23  
End at: 2019-08-27 11:54:53  
Local clock offset: 0.461 ms  
Remote clock offset: -5.924 ms

# Below is generated by plot.py at 2019-08-27 14:16:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.95 Mbit/s  
95th percentile per-packet one-way delay: 169.282 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 48.56 Mbit/s  
95th percentile per-packet one-way delay: 165.581 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 37.14 Mbit/s  
95th percentile per-packet one-way delay: 174.716 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 29.57 Mbit/s  
95th percentile per-packet one-way delay: 162.656 ms  
Loss rate: 1.93%

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



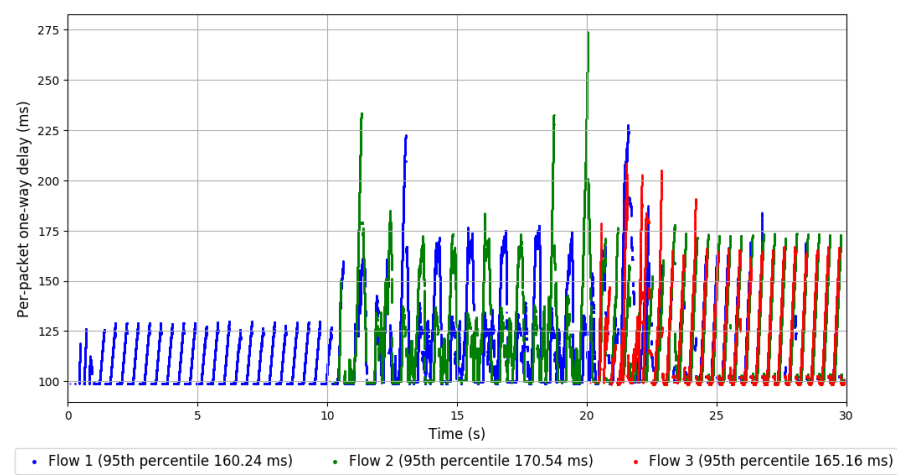
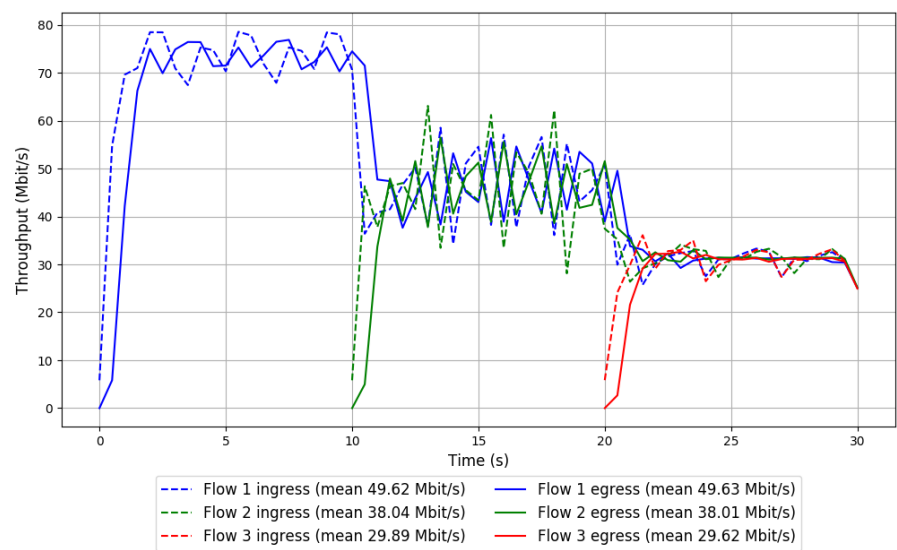


Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 12:25:20  
End at: 2019-08-27 12:25:50  
Local clock offset: -0.306 ms  
Remote clock offset: -5.312 ms

# Below is generated by plot.py at 2019-08-27 14:17:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.62 Mbit/s  
95th percentile per-packet one-way delay: 165.189 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 49.63 Mbit/s  
95th percentile per-packet one-way delay: 160.240 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 38.01 Mbit/s  
95th percentile per-packet one-way delay: 170.541 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 29.62 Mbit/s  
95th percentile per-packet one-way delay: 165.164 ms  
Loss rate: 2.59%

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

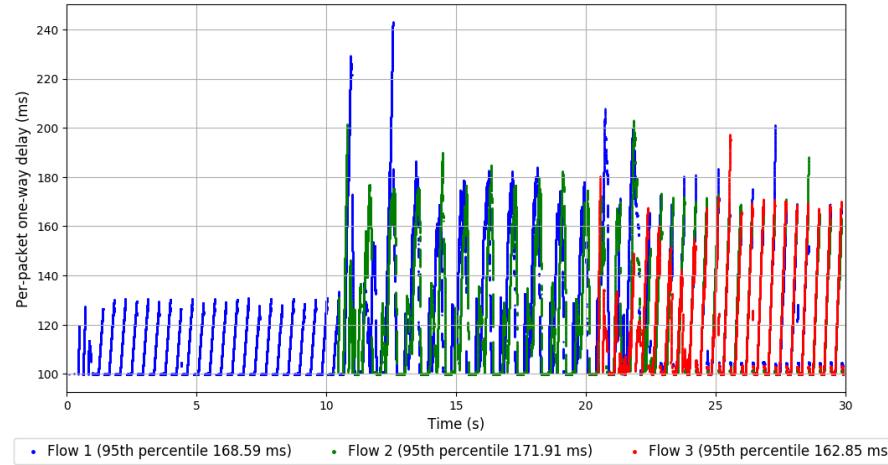
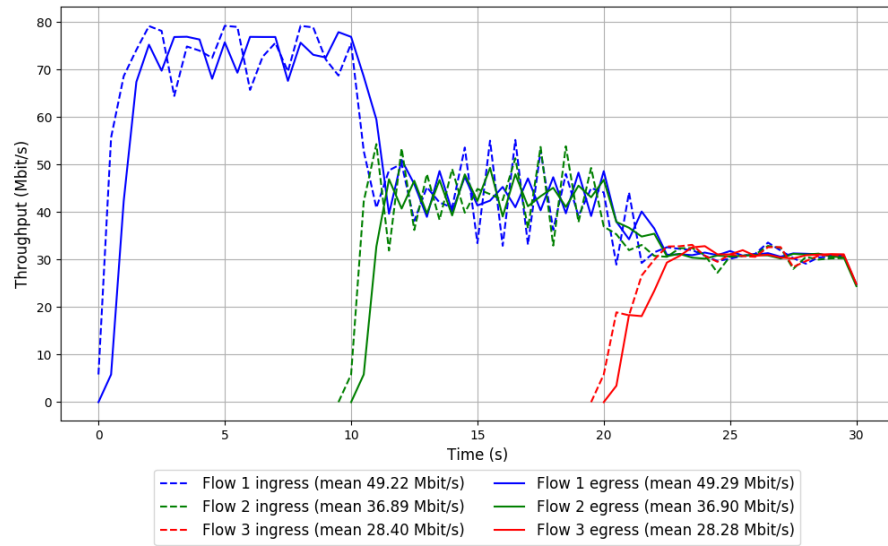


Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 12:56:17  
End at: 2019-08-27 12:56:47  
Local clock offset: -0.247 ms  
Remote clock offset: -7.103 ms

# Below is generated by plot.py at 2019-08-27 14:17:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.12 Mbit/s  
95th percentile per-packet one-way delay: 169.209 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 49.29 Mbit/s  
95th percentile per-packet one-way delay: 168.589 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 36.90 Mbit/s  
95th percentile per-packet one-way delay: 171.910 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 28.28 Mbit/s  
95th percentile per-packet one-way delay: 162.848 ms  
Loss rate: 2.18%

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

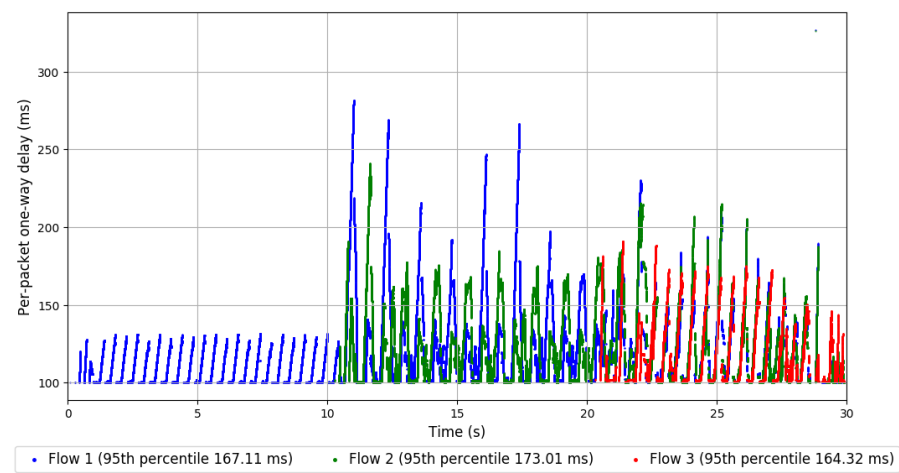
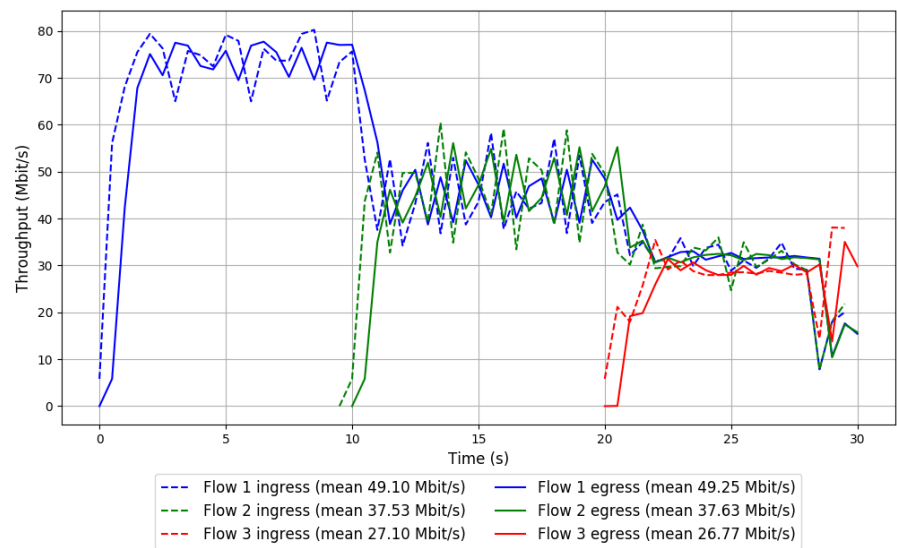


Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 13:27:14  
End at: 2019-08-27 13:27:44  
Local clock offset: -0.174 ms  
Remote clock offset: -7.069 ms

# Below is generated by plot.py at 2019-08-27 14:17:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.02 Mbit/s  
95th percentile per-packet one-way delay: 168.601 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 49.25 Mbit/s  
95th percentile per-packet one-way delay: 167.107 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 173.010 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 26.77 Mbit/s  
95th percentile per-packet one-way delay: 164.316 ms  
Loss rate: 2.91%

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

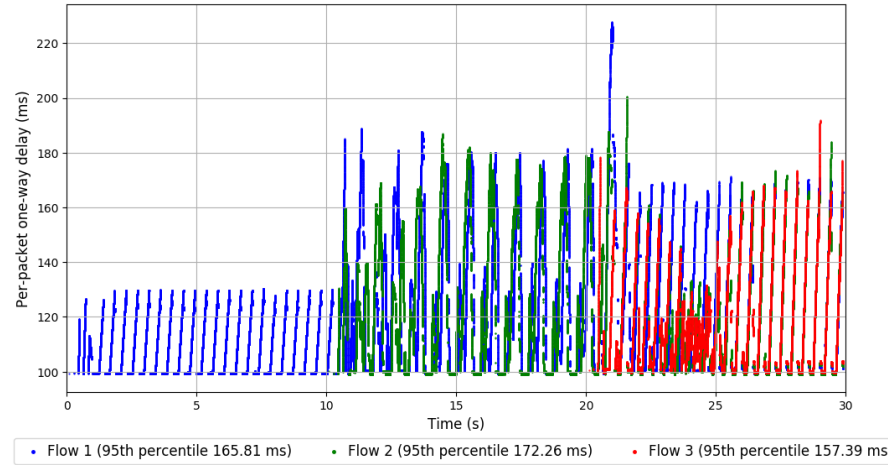
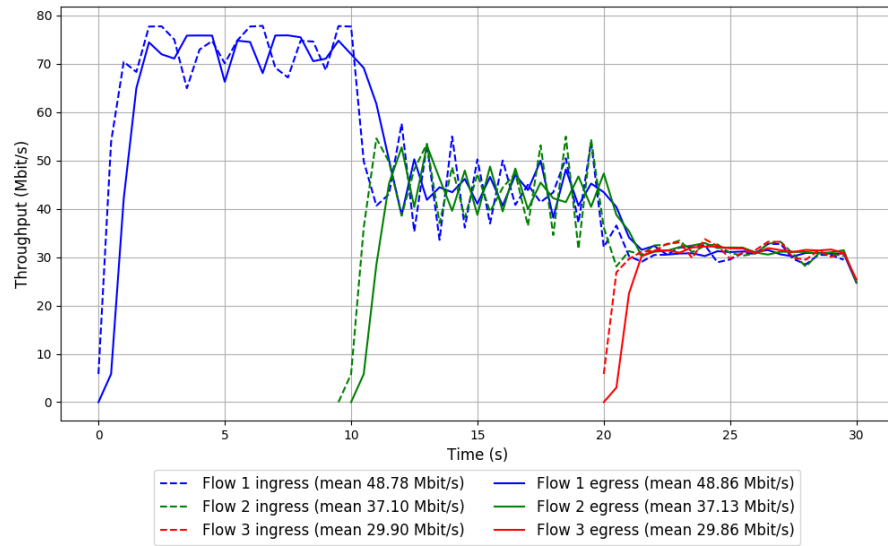


Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 13:58:33  
End at: 2019-08-27 13:59:03  
Local clock offset: -0.276 ms  
Remote clock offset: -6.674 ms

# Below is generated by plot.py at 2019-08-27 14:17:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.35 Mbit/s  
95th percentile per-packet one-way delay: 166.516 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 48.86 Mbit/s  
95th percentile per-packet one-way delay: 165.811 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 37.13 Mbit/s  
95th percentile per-packet one-way delay: 172.262 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 29.86 Mbit/s  
95th percentile per-packet one-way delay: 157.386 ms  
Loss rate: 1.88%

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



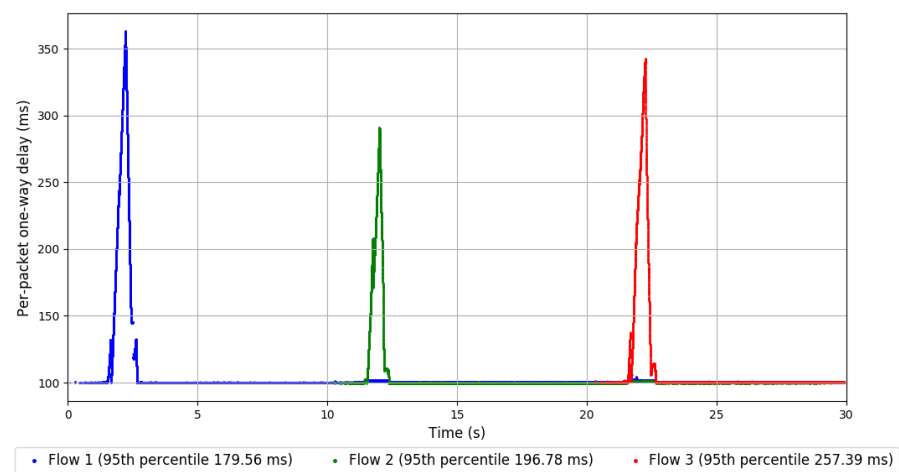
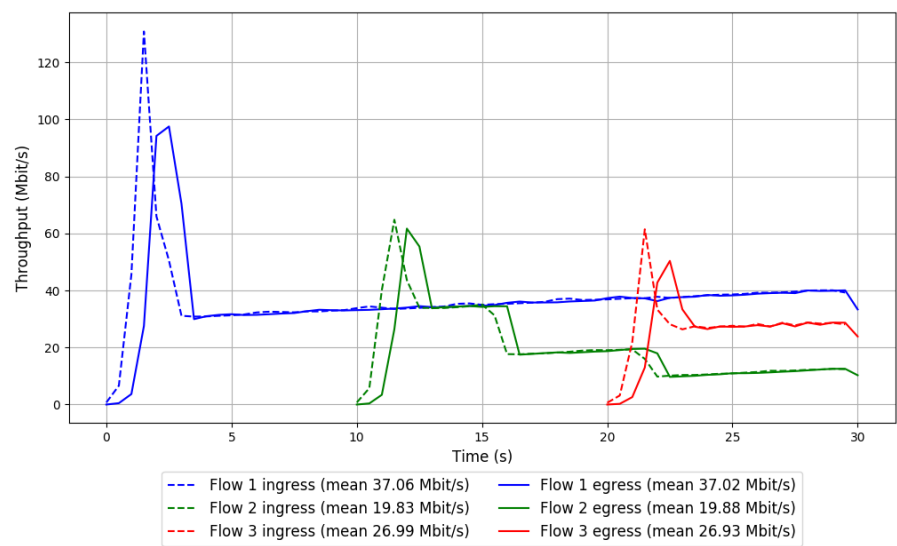


Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 11:50:35  
End at: 2019-08-27 11:51:05  
Local clock offset: -0.341 ms  
Remote clock offset: -5.734 ms

# Below is generated by plot.py at 2019-08-27 14:17:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.06 Mbit/s  
95th percentile per-packet one-way delay: 204.608 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 37.02 Mbit/s  
95th percentile per-packet one-way delay: 179.562 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 19.88 Mbit/s  
95th percentile per-packet one-way delay: 196.783 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 26.93 Mbit/s  
95th percentile per-packet one-way delay: 257.393 ms  
Loss rate: 1.92%

Run 1: Report of TCP Vegas — Data Link

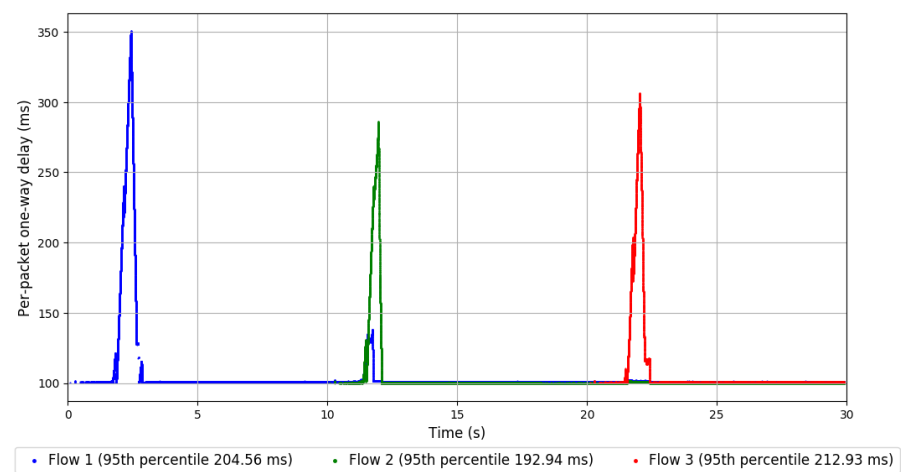
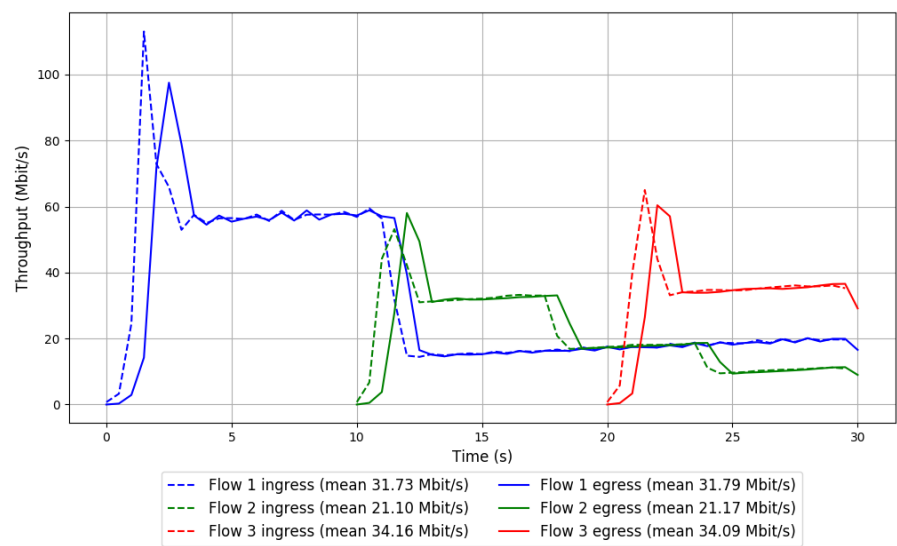


Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 12:21:32  
End at: 2019-08-27 12:22:02  
Local clock offset: 0.466 ms  
Remote clock offset: -5.726 ms

# Below is generated by plot.py at 2019-08-27 14:17:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.05 Mbit/s  
95th percentile per-packet one-way delay: 204.115 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 31.79 Mbit/s  
95th percentile per-packet one-way delay: 204.556 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 21.17 Mbit/s  
95th percentile per-packet one-way delay: 192.939 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 34.09 Mbit/s  
95th percentile per-packet one-way delay: 212.926 ms  
Loss rate: 1.94%

Run 2: Report of TCP Vegas — Data Link

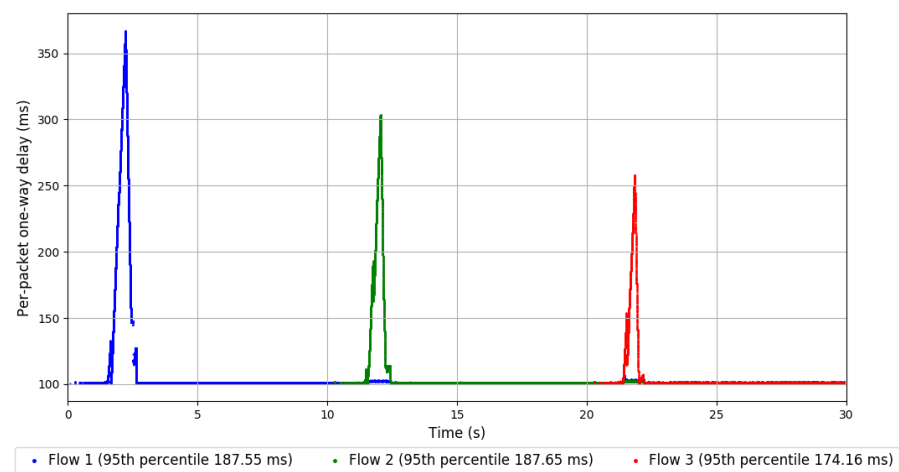
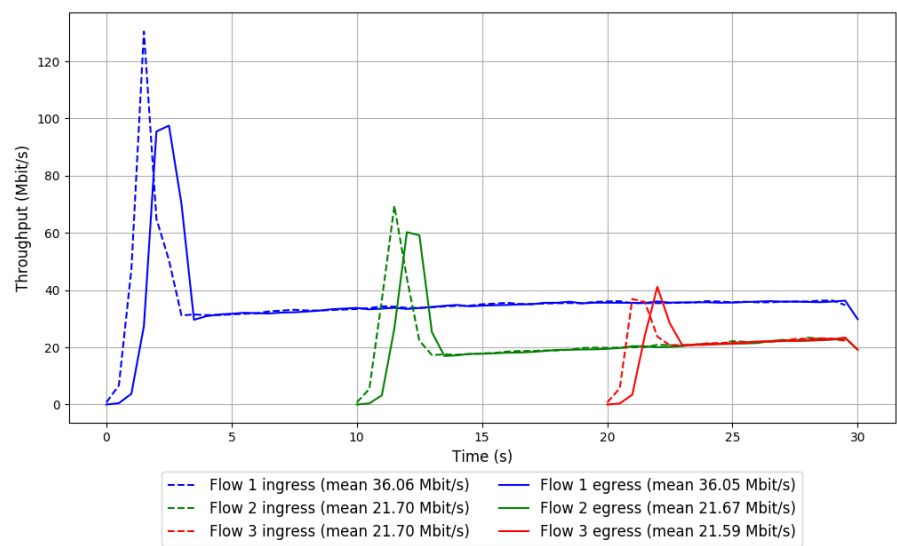


Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 12:52:29  
End at: 2019-08-27 12:52:59  
Local clock offset: -0.187 ms  
Remote clock offset: -7.614 ms

# Below is generated by plot.py at 2019-08-27 14:17:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.53 Mbit/s  
95th percentile per-packet one-way delay: 185.265 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 36.05 Mbit/s  
95th percentile per-packet one-way delay: 187.547 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 21.67 Mbit/s  
95th percentile per-packet one-way delay: 187.650 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 21.59 Mbit/s  
95th percentile per-packet one-way delay: 174.162 ms  
Loss rate: 2.21%

Run 3: Report of TCP Vegas — Data Link

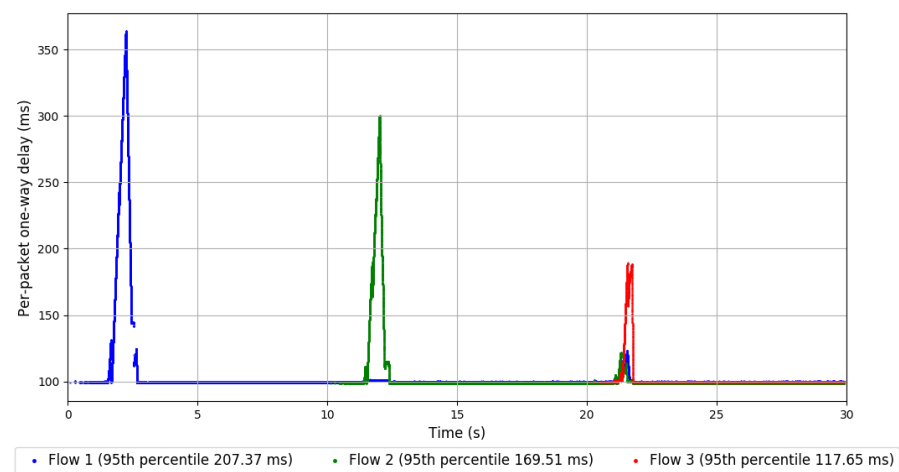
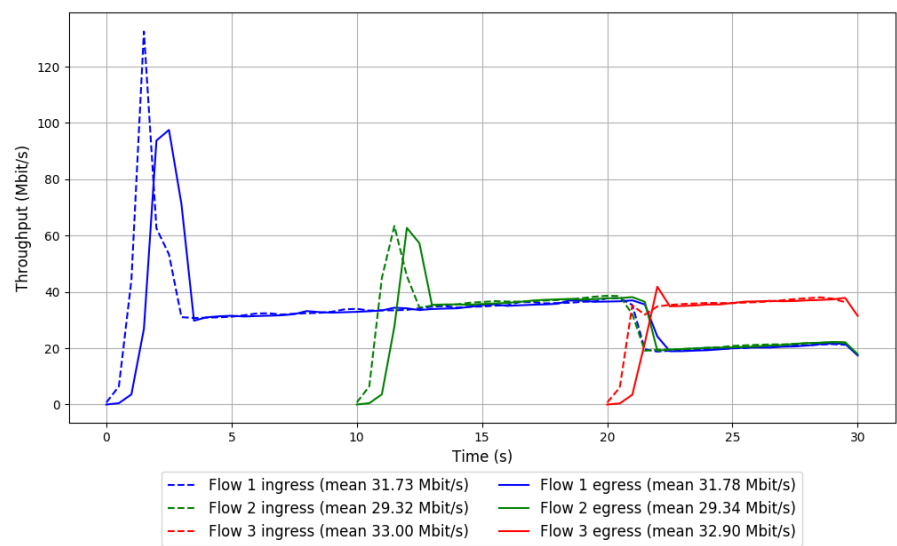


Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 13:23:26  
End at: 2019-08-27 13:23:56  
Local clock offset: -0.134 ms  
Remote clock offset: -5.955 ms

# Below is generated by plot.py at 2019-08-27 14:17:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.06 Mbit/s  
95th percentile per-packet one-way delay: 174.007 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 31.78 Mbit/s  
95th percentile per-packet one-way delay: 207.374 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 29.34 Mbit/s  
95th percentile per-packet one-way delay: 169.507 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 32.90 Mbit/s  
95th percentile per-packet one-way delay: 117.653 ms  
Loss rate: 2.02%

Run 4: Report of TCP Vegas — Data Link



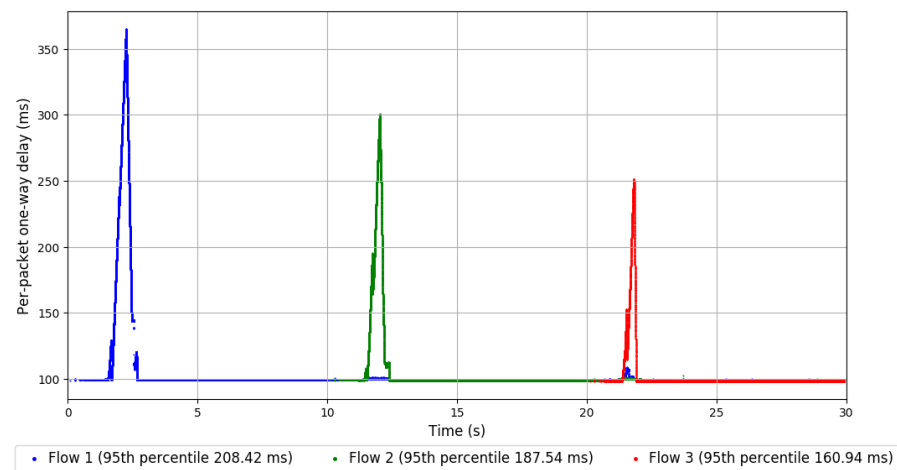
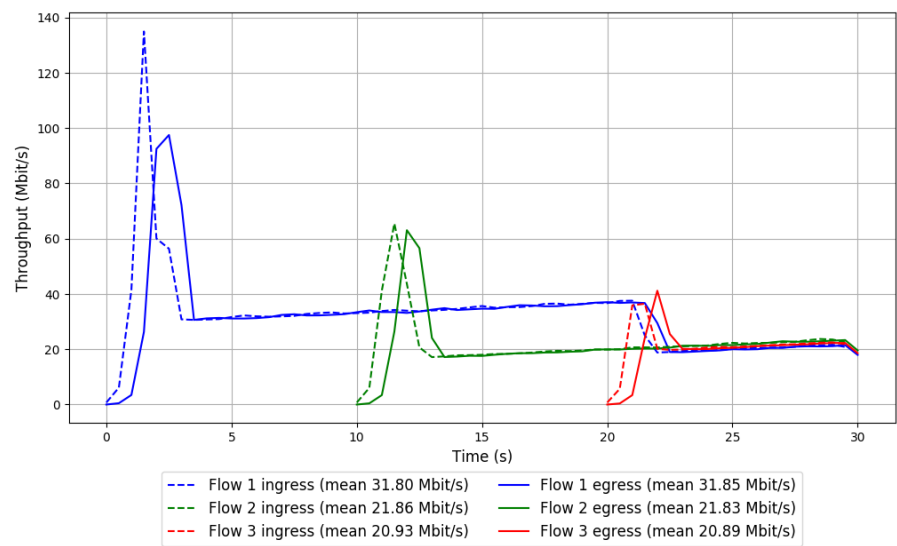


Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 13:54:40  
End at: 2019-08-27 13:55:10  
Local clock offset: -0.298 ms  
Remote clock offset: -5.186 ms

# Below is generated by plot.py at 2019-08-27 14:17:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.21 Mbit/s  
95th percentile per-packet one-way delay: 191.940 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 31.85 Mbit/s  
95th percentile per-packet one-way delay: 208.424 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 21.83 Mbit/s  
95th percentile per-packet one-way delay: 187.542 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 20.89 Mbit/s  
95th percentile per-packet one-way delay: 160.935 ms  
Loss rate: 1.93%

Run 5: Report of TCP Vegas — Data Link

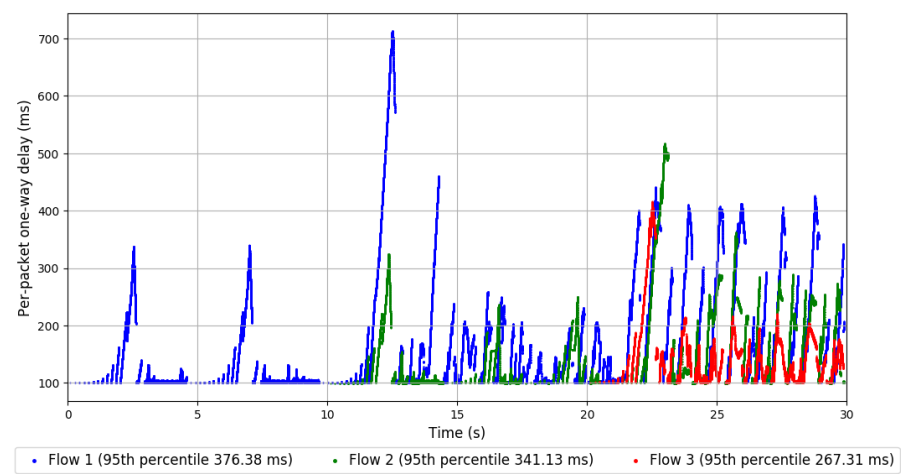
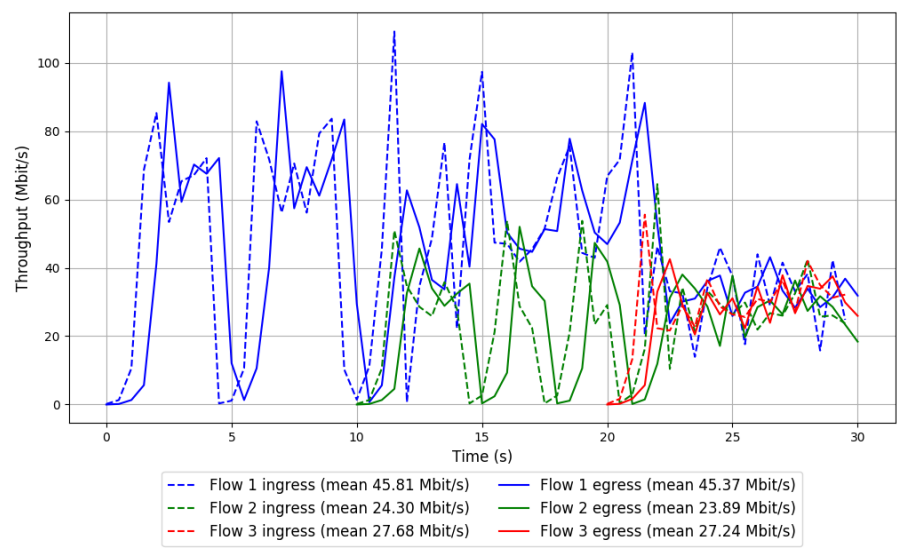


Run 1: Statistics of Verus

Start at: 2019-08-27 11:29:54  
End at: 2019-08-27 11:30:24  
Local clock offset: 0.412 ms  
Remote clock offset: -8.475 ms

# Below is generated by plot.py at 2019-08-27 14:17:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.14 Mbit/s  
95th percentile per-packet one-way delay: 364.328 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 45.37 Mbit/s  
95th percentile per-packet one-way delay: 376.376 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 23.89 Mbit/s  
95th percentile per-packet one-way delay: 341.131 ms  
Loss rate: 2.50%  
-- Flow 3:  
Average throughput: 27.24 Mbit/s  
95th percentile per-packet one-way delay: 267.315 ms  
Loss rate: 3.36%

Run 1: Report of Verus — Data Link

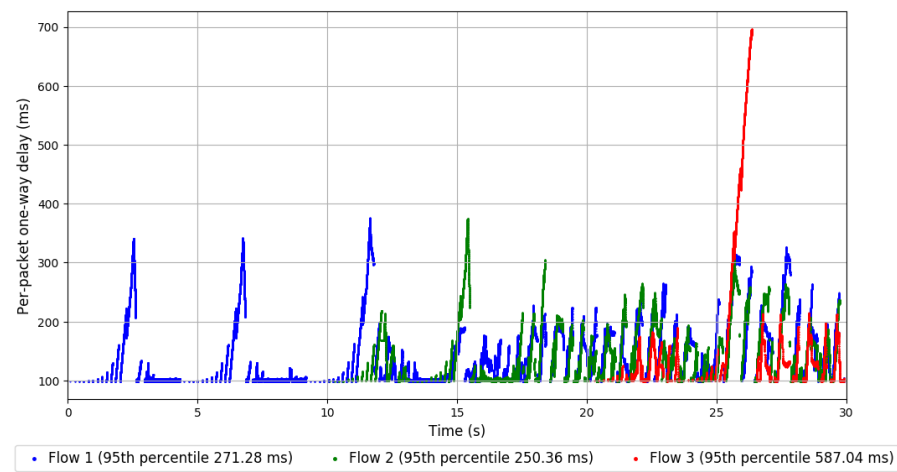
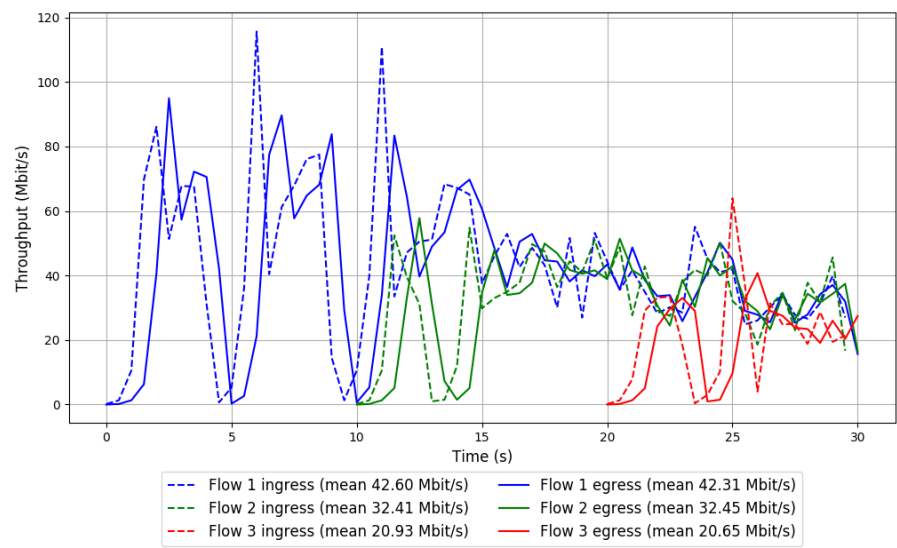


Run 2: Statistics of Verus

Start at: 2019-08-27 12:00:50  
End at: 2019-08-27 12:01:20  
Local clock offset: -0.394 ms  
Remote clock offset: -3.933 ms

# Below is generated by plot.py at 2019-08-27 14:17:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.47 Mbit/s  
95th percentile per-packet one-way delay: 277.079 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 42.31 Mbit/s  
95th percentile per-packet one-way delay: 271.279 ms  
Loss rate: 1.25%  
-- Flow 2:  
Average throughput: 32.45 Mbit/s  
95th percentile per-packet one-way delay: 250.359 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 20.65 Mbit/s  
95th percentile per-packet one-way delay: 587.039 ms  
Loss rate: 1.70%

Run 2: Report of Verus — Data Link

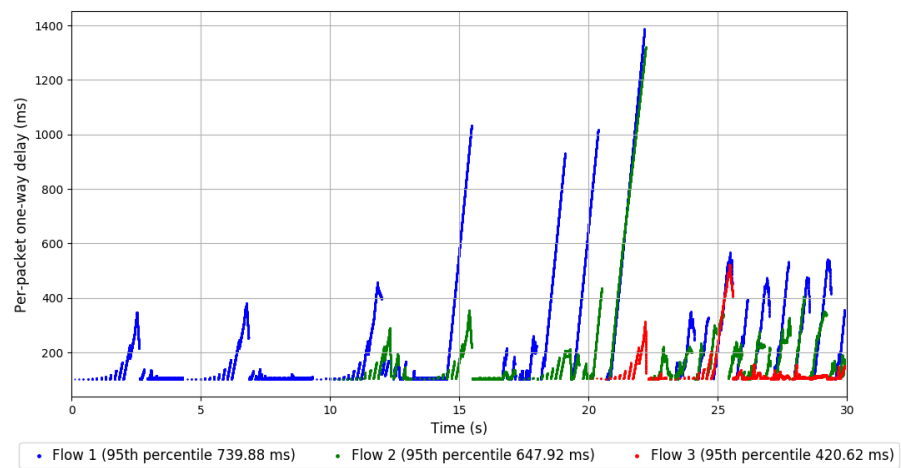
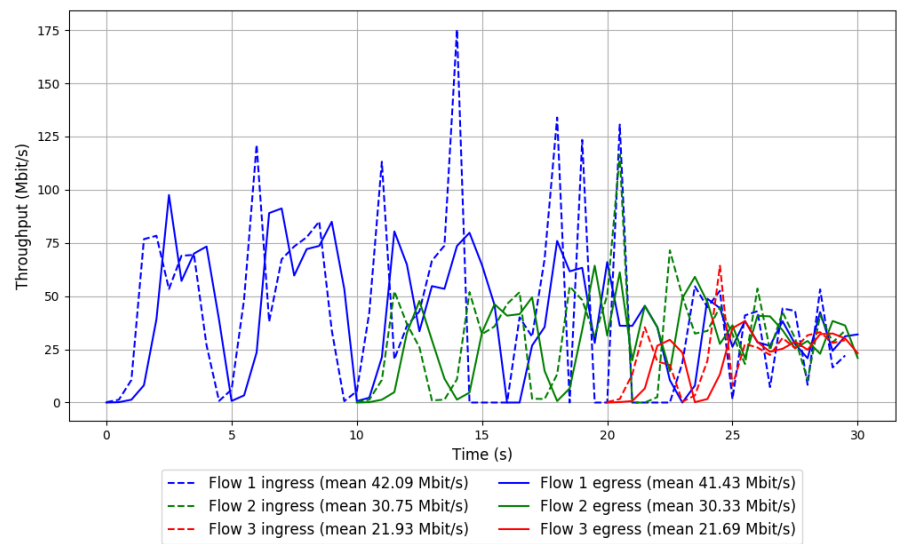


Run 3: Statistics of Verus

Start at: 2019-08-27 12:31:47  
End at: 2019-08-27 12:32:17  
Local clock offset: 0.518 ms  
Remote clock offset: -7.893 ms

# Below is generated by plot.py at 2019-08-27 14:17:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.69 Mbit/s  
95th percentile per-packet one-way delay: 683.894 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 41.43 Mbit/s  
95th percentile per-packet one-way delay: 739.880 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 30.33 Mbit/s  
95th percentile per-packet one-way delay: 647.924 ms  
Loss rate: 2.05%  
-- Flow 3:  
Average throughput: 21.69 Mbit/s  
95th percentile per-packet one-way delay: 420.624 ms  
Loss rate: 2.81%

Run 3: Report of Verus — Data Link



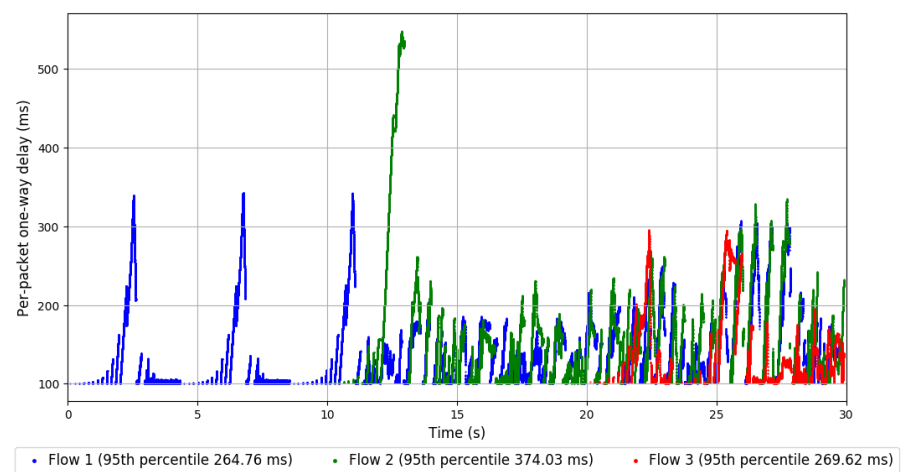
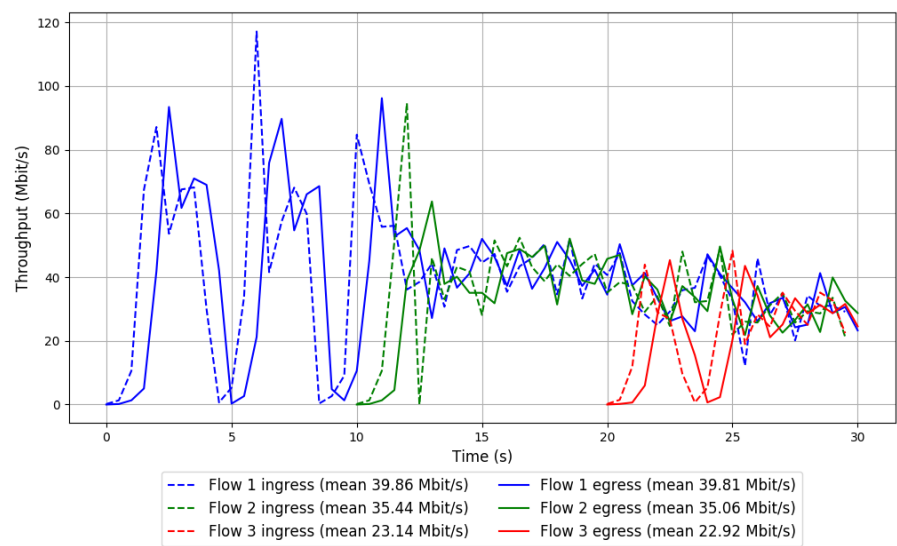


Run 4: Statistics of Verus

Start at: 2019-08-27 13:02:44  
End at: 2019-08-27 13:03:14  
Local clock offset: 0.546 ms  
Remote clock offset: -7.515 ms

# Below is generated by plot.py at 2019-08-27 14:17:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.54 Mbit/s  
95th percentile per-packet one-way delay: 279.986 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 39.81 Mbit/s  
95th percentile per-packet one-way delay: 264.762 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 35.06 Mbit/s  
95th percentile per-packet one-way delay: 374.029 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 22.92 Mbit/s  
95th percentile per-packet one-way delay: 269.622 ms  
Loss rate: 2.05%

Run 4: Report of Verus — Data Link

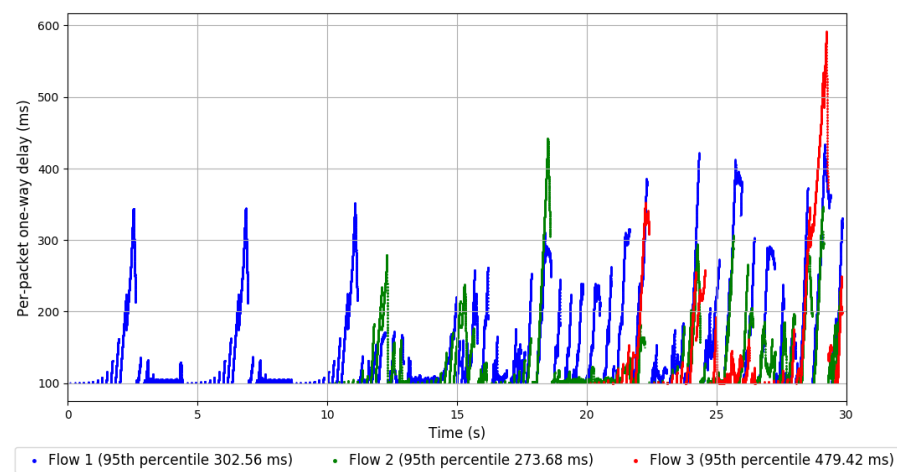
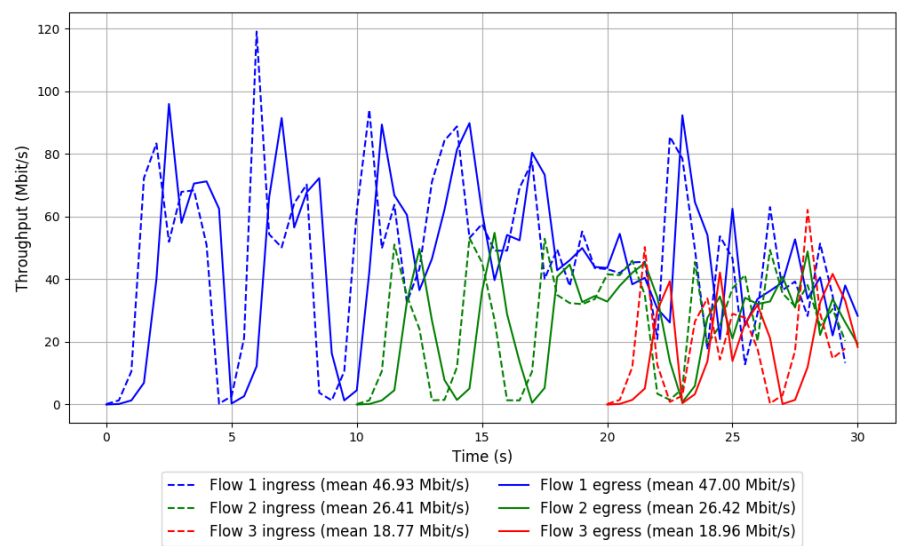


Run 5: Statistics of Verus

Start at: 2019-08-27 13:33:41  
End at: 2019-08-27 13:34:11  
Local clock offset: 0.568 ms  
Remote clock offset: -5.424 ms

# Below is generated by plot.py at 2019-08-27 14:17:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.66 Mbit/s  
95th percentile per-packet one-way delay: 317.071 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 47.00 Mbit/s  
95th percentile per-packet one-way delay: 302.556 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 26.42 Mbit/s  
95th percentile per-packet one-way delay: 273.677 ms  
Loss rate: 1.44%  
-- Flow 3:  
Average throughput: 18.96 Mbit/s  
95th percentile per-packet one-way delay: 479.415 ms  
Loss rate: 1.52%

Run 5: Report of Verus — Data Link

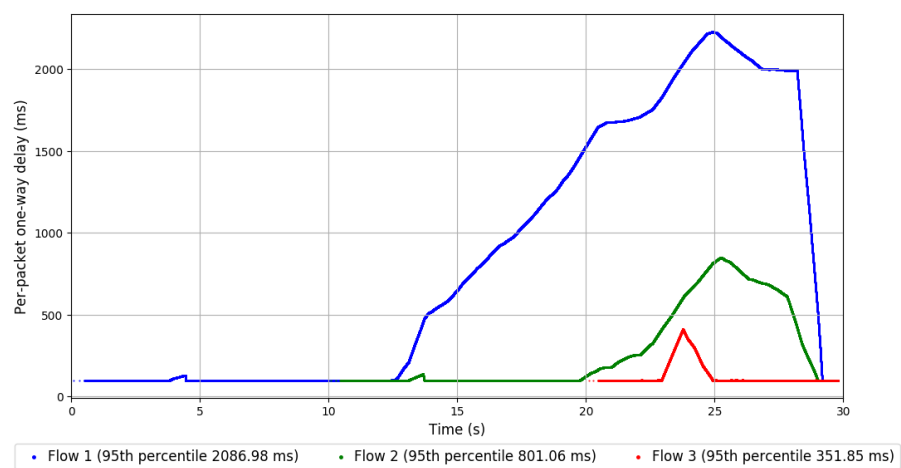
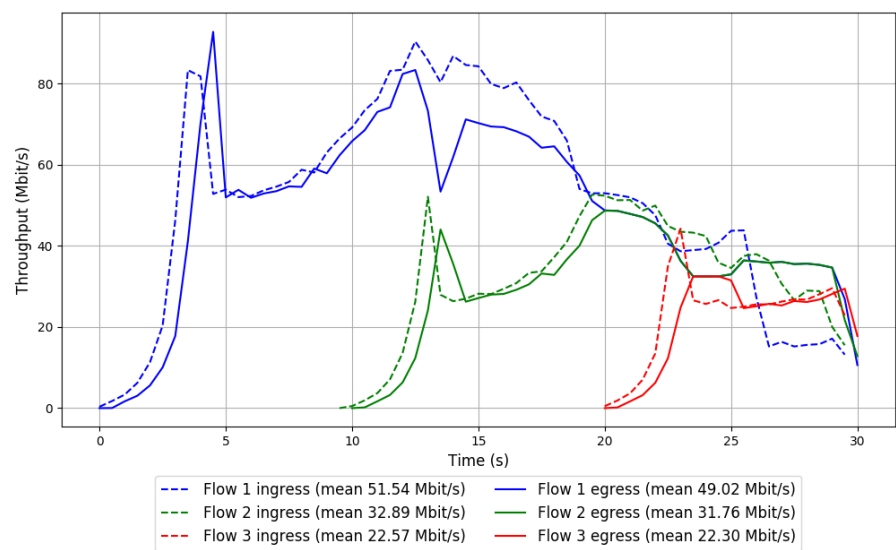


Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 11:51:52  
End at: 2019-08-27 11:52:22  
Local clock offset: -0.391 ms  
Remote clock offset: -4.536 ms

# Below is generated by plot.py at 2019-08-27 14:18:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.38 Mbit/s  
95th percentile per-packet one-way delay: 2000.817 ms  
Loss rate: 4.89%  
-- Flow 1:  
Average throughput: 49.02 Mbit/s  
95th percentile per-packet one-way delay: 2086.982 ms  
Loss rate: 5.43%  
-- Flow 2:  
Average throughput: 31.76 Mbit/s  
95th percentile per-packet one-way delay: 801.058 ms  
Loss rate: 4.27%  
-- Flow 3:  
Average throughput: 22.30 Mbit/s  
95th percentile per-packet one-way delay: 351.849 ms  
Loss rate: 2.93%

Run 1: Report of PCC-Vivace — Data Link

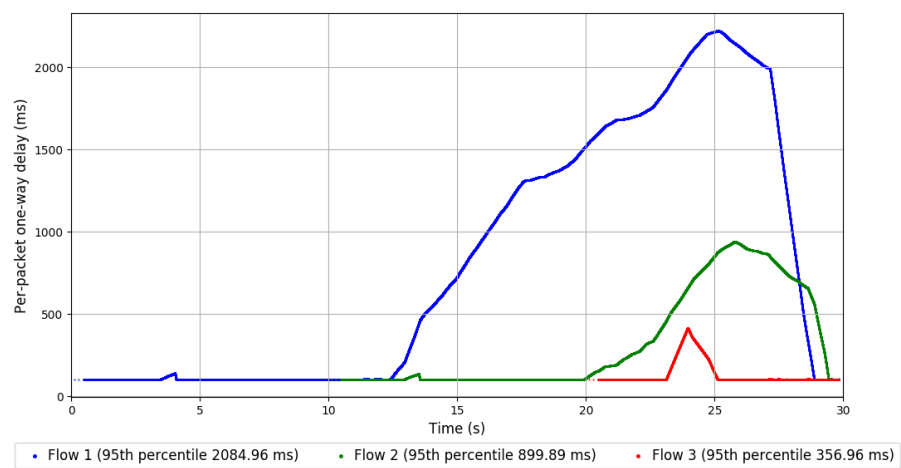
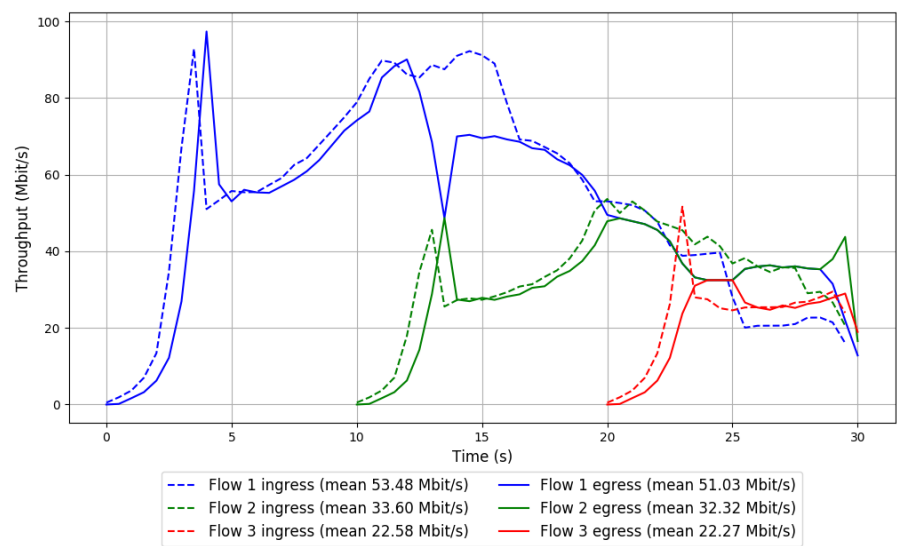


Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 12:22:48  
End at: 2019-08-27 12:23:18  
Local clock offset: -0.278 ms  
Remote clock offset: -9.202 ms

# Below is generated by plot.py at 2019-08-27 14:18:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.74 Mbit/s  
95th percentile per-packet one-way delay: 1994.622 ms  
Loss rate: 4.81%  
-- Flow 1:  
Average throughput: 51.03 Mbit/s  
95th percentile per-packet one-way delay: 2084.957 ms  
Loss rate: 5.12%  
-- Flow 2:  
Average throughput: 32.32 Mbit/s  
95th percentile per-packet one-way delay: 899.888 ms  
Loss rate: 4.64%  
-- Flow 3:  
Average throughput: 22.27 Mbit/s  
95th percentile per-packet one-way delay: 356.956 ms  
Loss rate: 3.07%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 12:53:46

End at: 2019-08-27 12:54:16

Local clock offset: 0.57 ms

Remote clock offset: -7.05 ms

# Below is generated by plot.py at 2019-08-27 14:18:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 1556.567 ms

Loss rate: 4.35%

-- Flow 1:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 1575.410 ms

Loss rate: 4.70%

-- Flow 2:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 847.953 ms

Loss rate: 3.74%

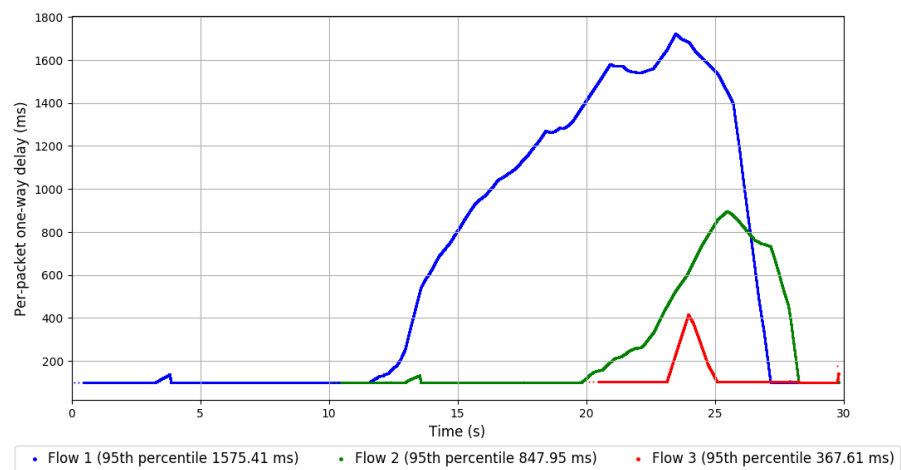
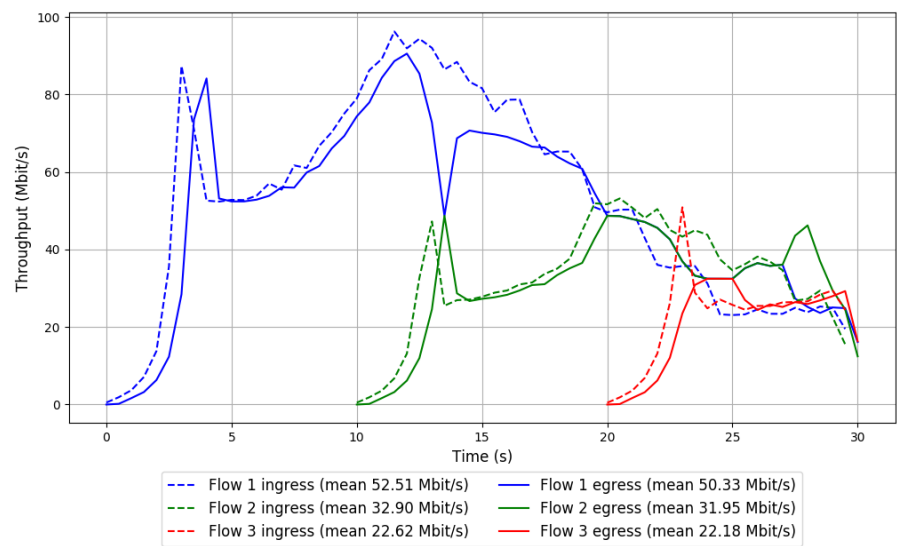
-- Flow 3:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 367.607 ms

Loss rate: 3.65%

Run 3: Report of PCC-Vivace — Data Link

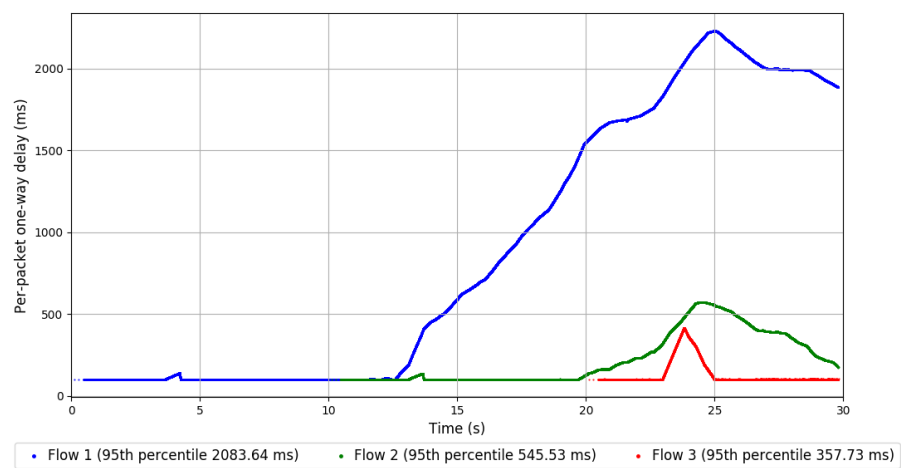
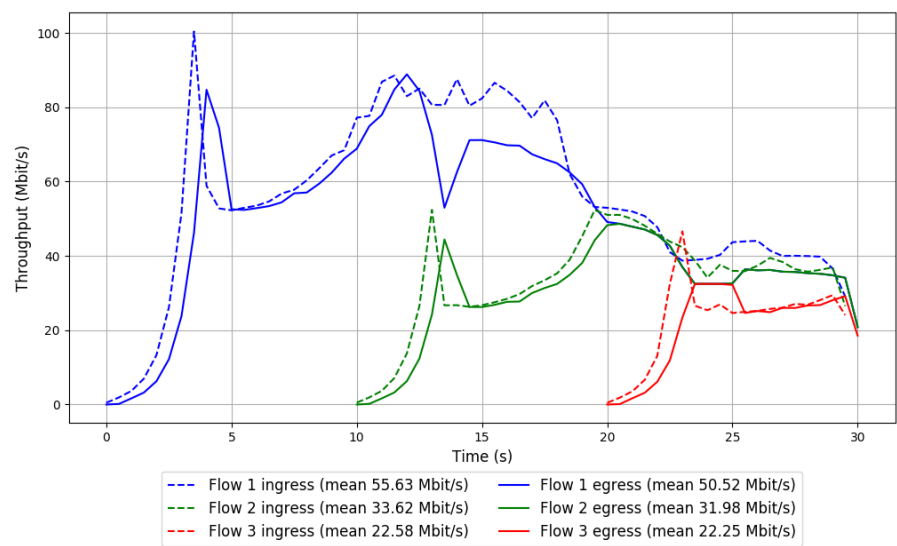


Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 13:24:43  
End at: 2019-08-27 13:25:13  
Local clock offset: -0.15 ms  
Remote clock offset: -7.427 ms

# Below is generated by plot.py at 2019-08-27 14:18:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.00 Mbit/s  
95th percentile per-packet one-way delay: 2000.241 ms  
Loss rate: 8.08%  
-- Flow 1:  
Average throughput: 50.52 Mbit/s  
95th percentile per-packet one-way delay: 2083.644 ms  
Loss rate: 9.70%  
-- Flow 2:  
Average throughput: 31.98 Mbit/s  
95th percentile per-packet one-way delay: 545.528 ms  
Loss rate: 5.70%  
-- Flow 3:  
Average throughput: 22.25 Mbit/s  
95th percentile per-packet one-way delay: 357.730 ms  
Loss rate: 3.13%

Run 4: Report of PCC-Vivace — Data Link

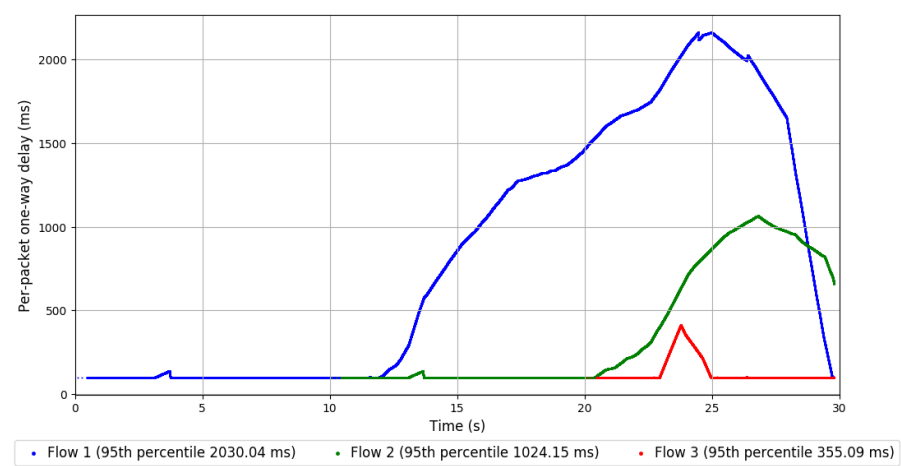
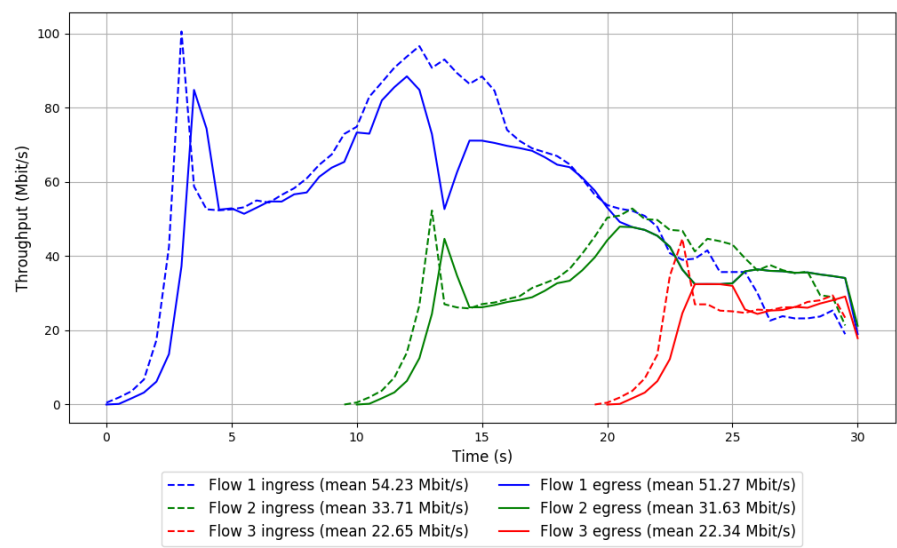


Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 13:55:58  
End at: 2019-08-27 13:56:28  
Local clock offset: -0.314 ms  
Remote clock offset: -7.177 ms

# Below is generated by plot.py at 2019-08-27 14:18:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.56 Mbit/s  
95th percentile per-packet one-way delay: 1923.220 ms  
Loss rate: 6.00%  
-- Flow 1:  
Average throughput: 51.27 Mbit/s  
95th percentile per-packet one-way delay: 2030.038 ms  
Loss rate: 6.01%  
-- Flow 2:  
Average throughput: 31.63 Mbit/s  
95th percentile per-packet one-way delay: 1024.155 ms  
Loss rate: 6.97%  
-- Flow 3:  
Average throughput: 22.34 Mbit/s  
95th percentile per-packet one-way delay: 355.094 ms  
Loss rate: 3.11%

Run 5: Report of PCC-Vivace — Data Link

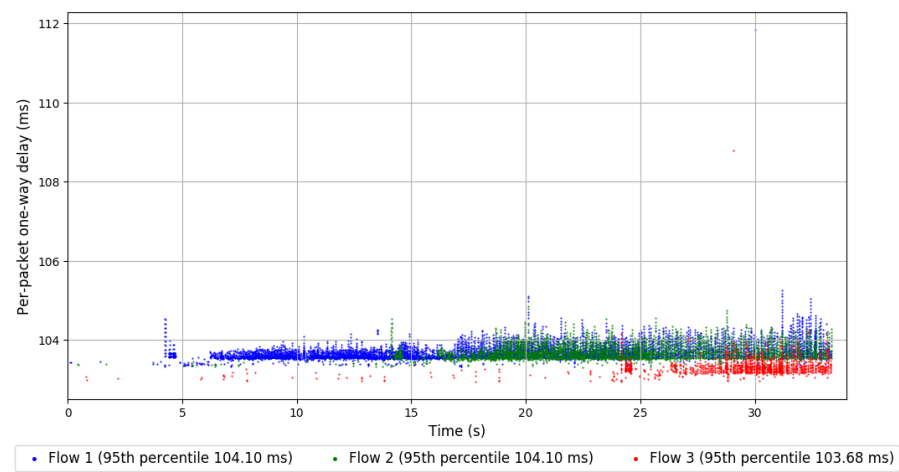
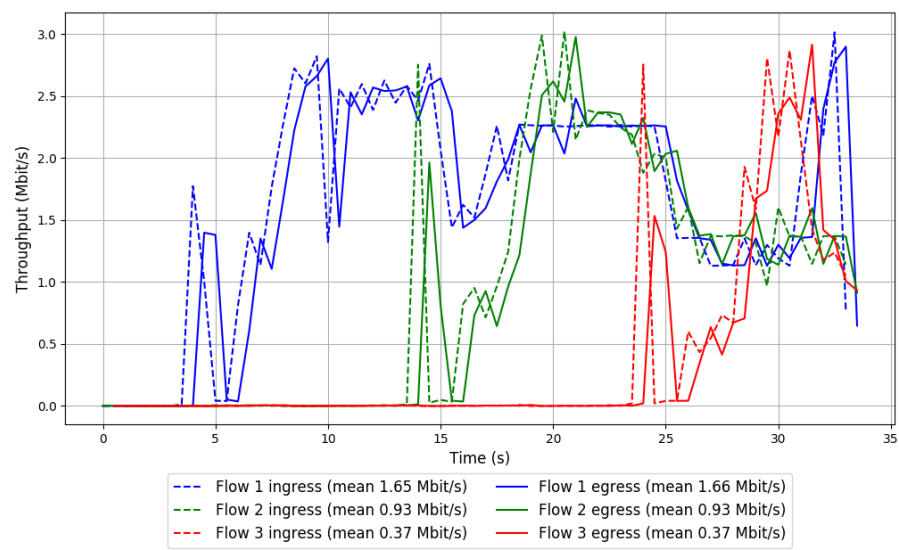


Run 1: Statistics of WebRTC media

Start at: 2019-08-27 11:27:23  
End at: 2019-08-27 11:27:53  
Local clock offset: -0.435 ms  
Remote clock offset: -12.835 ms

# Below is generated by plot.py at 2019-08-27 14:18:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.93 Mbit/s  
95th percentile per-packet one-way delay: 104.080 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 104.098 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 0.93 Mbit/s  
95th percentile per-packet one-way delay: 104.096 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 103.683 ms  
Loss rate: 1.75%

Run 1: Report of WebRTC media — Data Link



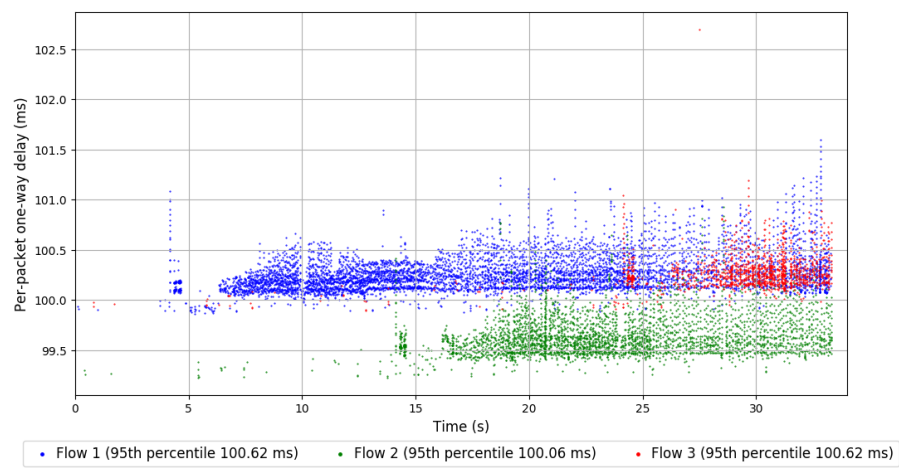
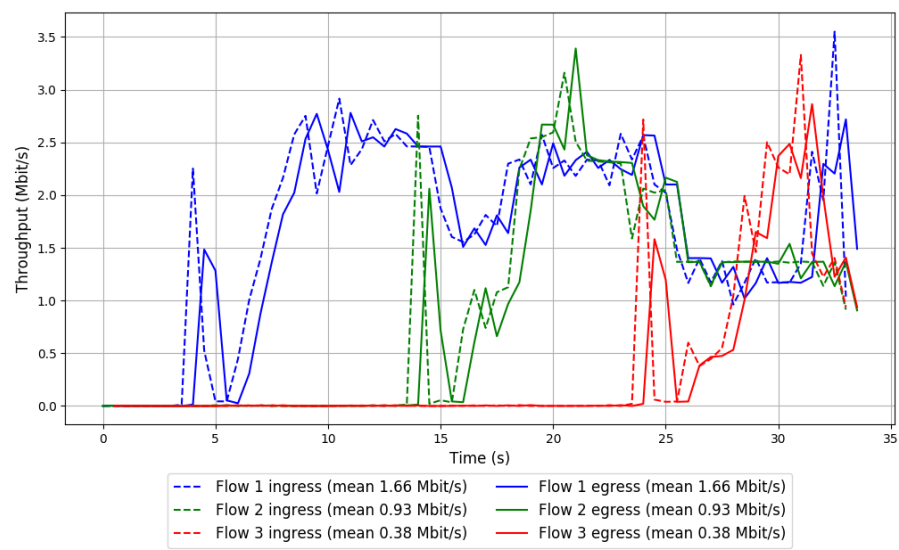


Run 2: Statistics of WebRTC media

Start at: 2019-08-27 11:58:19  
End at: 2019-08-27 11:58:49  
Local clock offset: 0.467 ms  
Remote clock offset: -4.565 ms

# Below is generated by plot.py at 2019-08-27 14:18:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.95 Mbit/s  
95th percentile per-packet one-way delay: 100.566 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 100.619 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 0.93 Mbit/s  
95th percentile per-packet one-way delay: 100.063 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 100.621 ms  
Loss rate: 0.95%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-08-27 12:29:17

End at: 2019-08-27 12:29:47

Local clock offset: -0.359 ms

Remote clock offset: -8.02 ms

# Below is generated by plot.py at 2019-08-27 14:18:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 102.228 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 102.291 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 102.060 ms

Loss rate: 0.73%

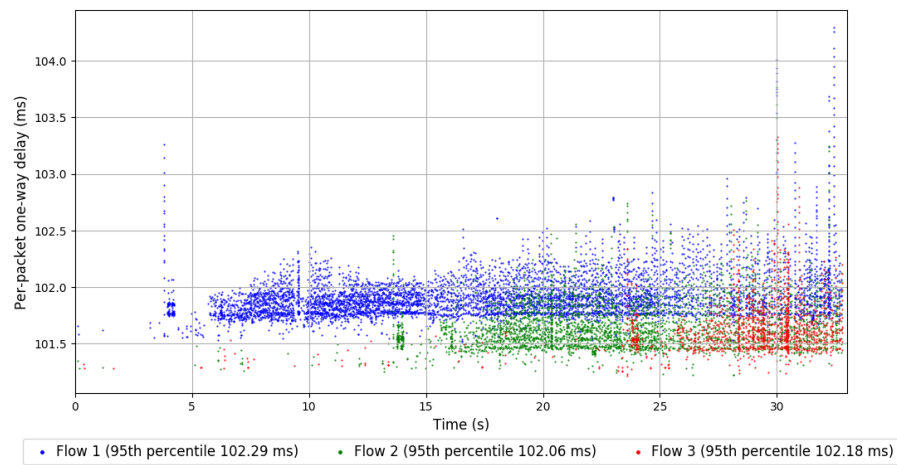
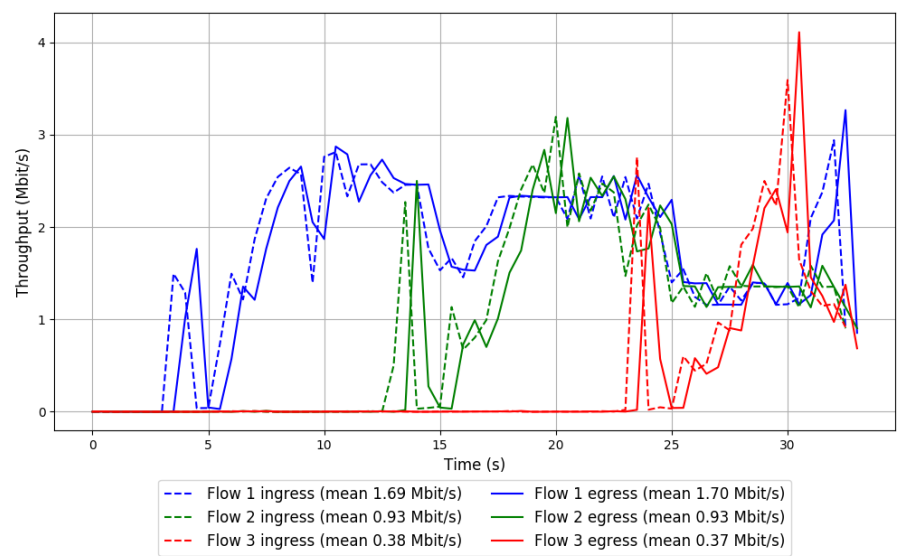
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 102.176 ms

Loss rate: 1.86%

Run 3: Report of WebRTC media — Data Link

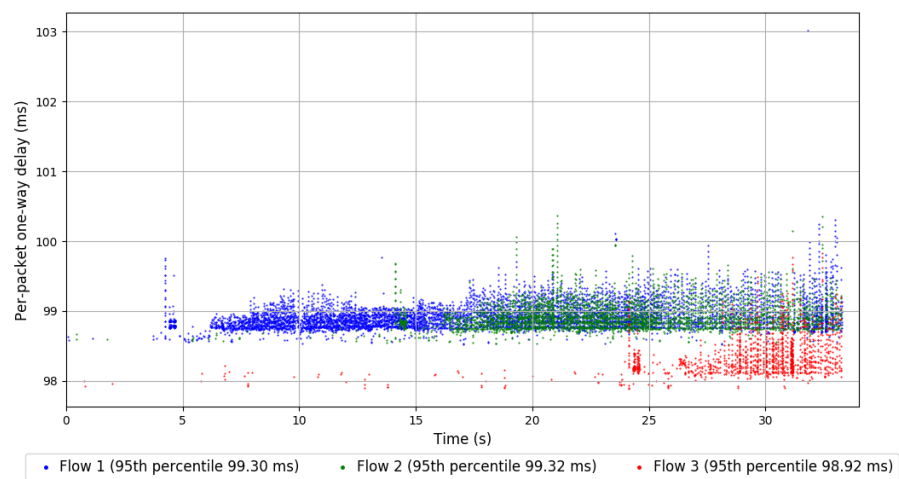
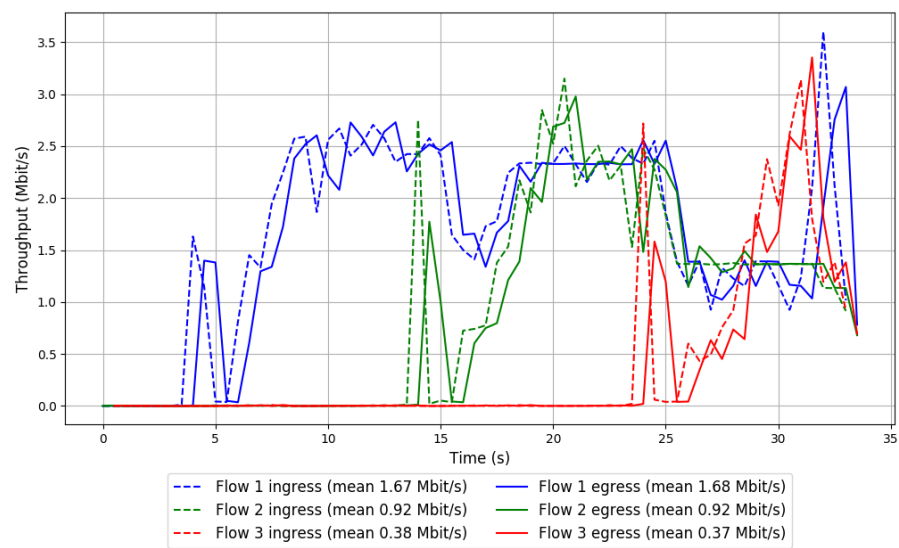


Run 4: Statistics of WebRTC media

Start at: 2019-08-27 13:00:13  
End at: 2019-08-27 13:00:43  
Local clock offset: -0.158 ms  
Remote clock offset: -6.029 ms

# Below is generated by plot.py at 2019-08-27 14:18:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.96 Mbit/s  
95th percentile per-packet one-way delay: 99.287 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 1.68 Mbit/s  
95th percentile per-packet one-way delay: 99.299 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 0.92 Mbit/s  
95th percentile per-packet one-way delay: 99.324 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 98.923 ms  
Loss rate: 1.85%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-27 13:31:11  
End at: 2019-08-27 13:31:41  
Local clock offset: 0.575 ms  
Remote clock offset: -7.622 ms

# Below is generated by plot.py at 2019-08-27 14:18:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.99 Mbit/s  
95th percentile per-packet one-way delay: 102.621 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 1.70 Mbit/s  
95th percentile per-packet one-way delay: 102.415 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 0.93 Mbit/s  
95th percentile per-packet one-way delay: 102.557 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 102.990 ms  
Loss rate: 1.41%

Run 5: Report of WebRTC media — Data Link

