

## Pantheon Report

Generated at 2019-09-19 10:42:12 (UTC).

Data path: GCE Tokyo on `ens4` (*remote*) → GCE Sydney on `ens4` (*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 `time.google.com` and have been applied to correct the timestamps in logs.

### System info:

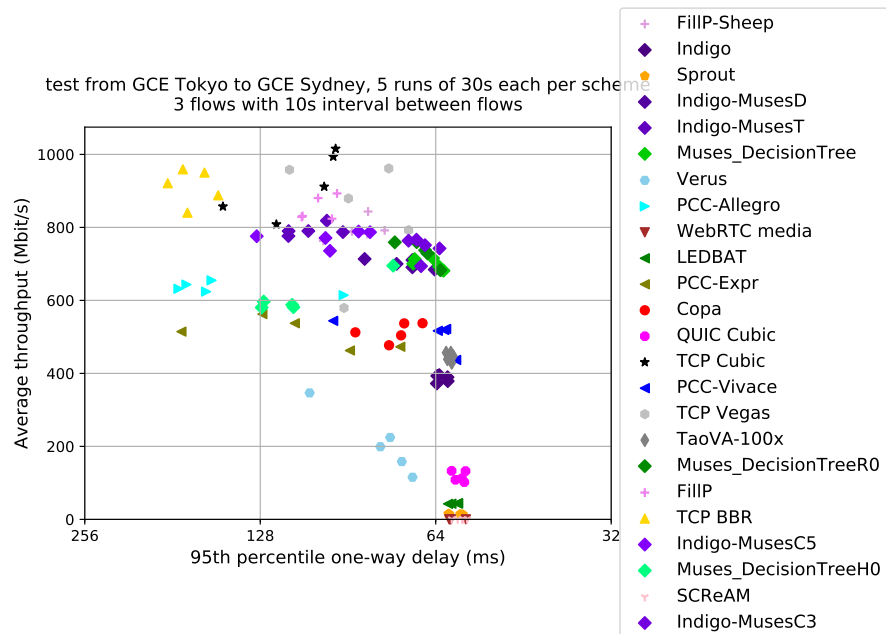
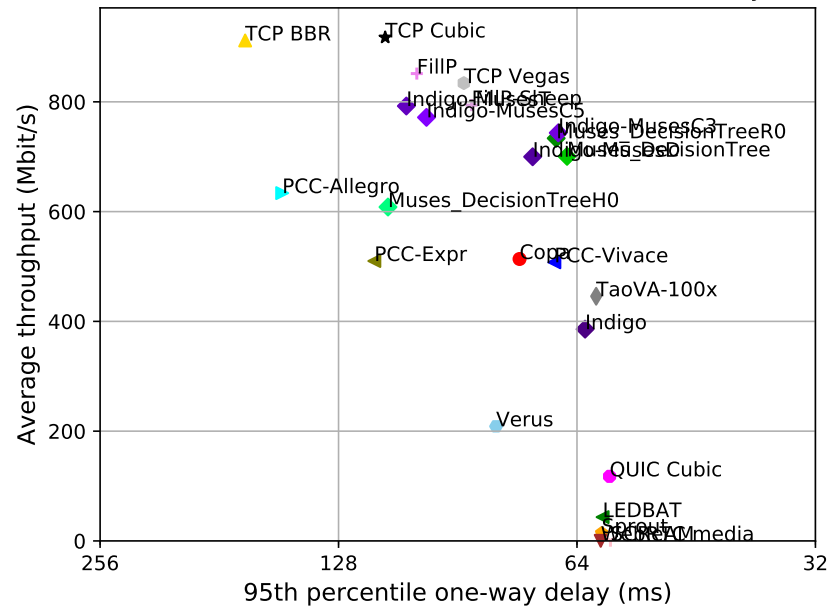
```
Linux 4.15.0-1040-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### 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 GCE Tokyo to GCE Sydney, 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	474.16	450.44	419.04	157.97	133.77	148.87	0.93	1.12	2.63
Copa	5	260.96	260.60	241.16	77.58	75.74	69.79	0.37	0.59	1.37
TCP Cubic	5	499.32	416.33	427.92	102.82	107.21	103.98	0.41	0.58	1.44
FillP	5	535.99	345.46	262.34	107.64	64.48	61.68	0.67	0.46	1.31
FillP-Sheep	5	504.05	315.07	245.70	96.01	62.24	61.12	0.39	0.47	1.36
Indigo	5	212.27	190.46	143.44	63.23	61.09	59.92	0.37	0.59	1.38
Indigo-MusesC3	5	442.85	369.56	257.31	70.15	64.45	60.49	0.30	0.46	2.15
Indigo-MusesC5	5	469.67	408.30	171.56	97.10	86.62	64.76	0.25	0.68	1.79
Indigo-MusesD	5	408.54	359.62	246.11	77.54	65.57	59.79	0.28	0.55	1.84
Indigo-MusesT	5	480.83	392.23	247.33	112.31	66.36	61.77	0.24	0.54	2.17
LEDBAT	5	27.96	18.70	9.25	59.24	58.17	58.50	0.76	1.15	2.31
Muses_DecisionTree	5	409.07	332.22	231.26	70.04	61.28	59.48	0.24	0.43	1.39
Muses_DecisionTreeH0	5	334.44	310.54	221.61	120.34	88.01	100.96	0.53	0.25	1.09
Muses_DecisionTreeR0	5	426.95	350.45	239.09	69.50	66.48	60.37	0.26	0.45	1.38
PCC-Allegro	5	355.22	300.49	242.35	156.66	108.53	96.03	0.81	1.26	1.53
PCC-Expr	5	278.72	259.86	179.53	113.01	97.46	120.19	1.56	1.20	1.48
QUIC Cubic	5	64.99	53.52	50.35	57.38	56.85	57.62	0.52	0.91	0.79
SCReAM	5	0.22	0.22	0.22	58.04	57.89	57.38	0.38	0.61	1.09
Sprout	5	7.29	7.34	6.81	58.38	58.62	59.10	0.37	0.68	1.28
TaoVA-100x	5	229.94	220.49	210.45	60.27	60.47	61.05	0.36	0.61	1.25
TCP Vegas	5	405.03	449.79	394.31	84.46	75.99	81.27	0.30	0.52	1.27
Verus	5	107.80	107.80	91.63	83.20	84.73	74.86	0.55	0.51	0.32
PCC-Vivace	5	292.39	241.58	167.85	69.33	79.16	62.06	0.66	0.67	1.62
WebRTC media	5	0.05	0.05	0.05	58.55	57.73	58.31	0.00	0.00	0.00

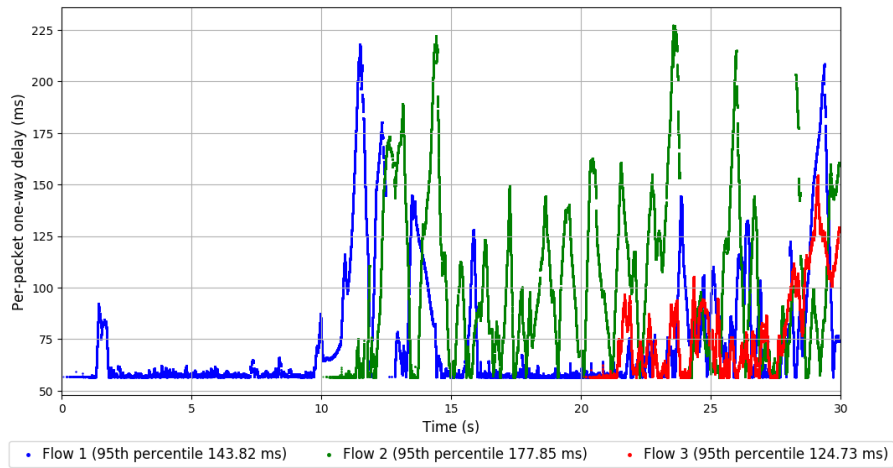
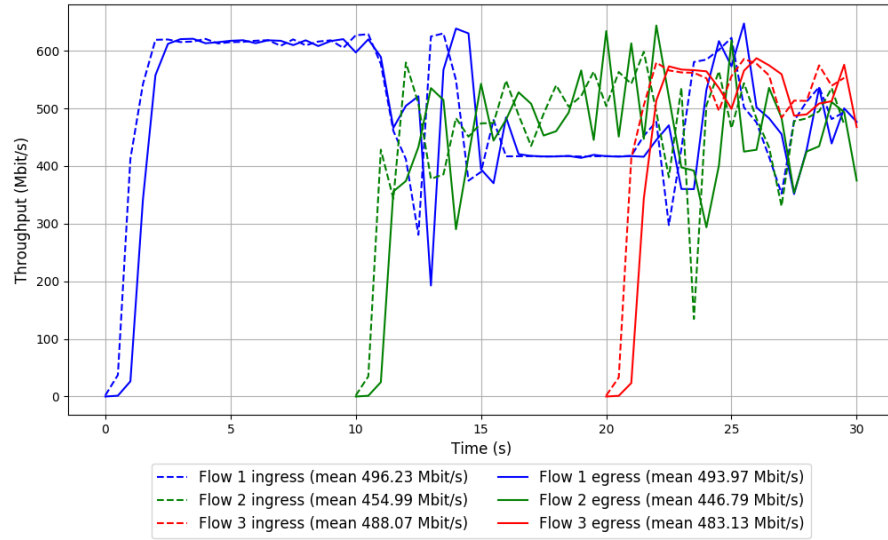


Run 1: Statistics of TCP BBR

Start at: 2019-09-19 04:33:42  
End at: 2019-09-19 04:34:12  
Local clock offset: -0.285 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-09-19 08:03:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 950.31 Mbit/s  
95th percentile per-packet one-way delay: 159.536 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 493.97 Mbit/s  
95th percentile per-packet one-way delay: 143.817 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 446.79 Mbit/s  
95th percentile per-packet one-way delay: 177.851 ms  
Loss rate: 2.37%  
-- Flow 3:  
Average throughput: 483.13 Mbit/s  
95th percentile per-packet one-way delay: 124.733 ms  
Loss rate: 2.16%

## Run 1: Report of TCP BBR — Data Link

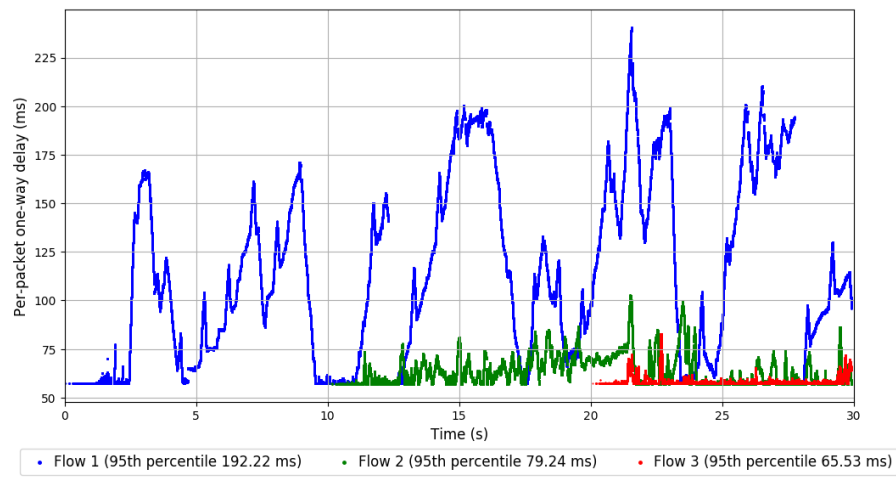
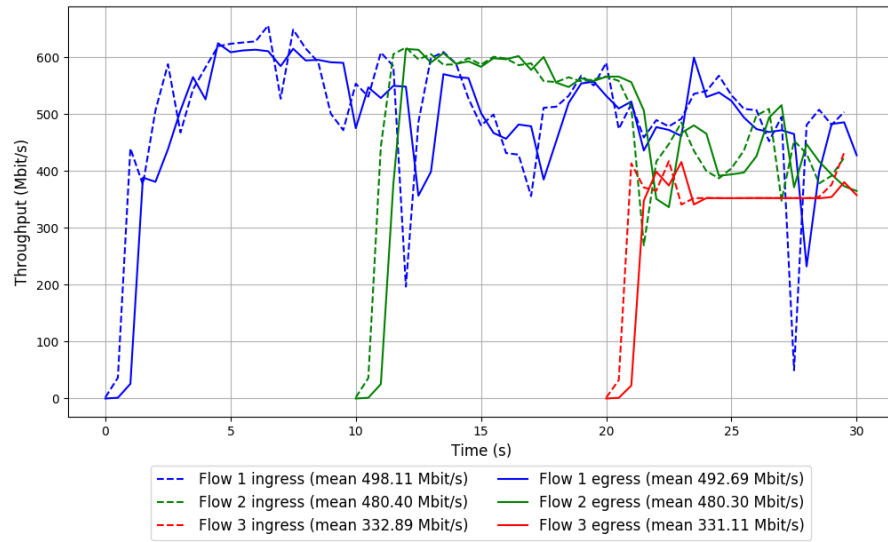


Run 2: Statistics of TCP BBR

Start at: 2019-09-19 05:14:40  
End at: 2019-09-19 05:15:10  
Local clock offset: 0.095 ms  
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2019-09-19 08:03:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 921.10 Mbit/s  
95th percentile per-packet one-way delay: 184.473 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 492.69 Mbit/s  
95th percentile per-packet one-way delay: 192.220 ms  
Loss rate: 1.47%  
-- Flow 2:  
Average throughput: 480.30 Mbit/s  
95th percentile per-packet one-way delay: 79.236 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 331.11 Mbit/s  
95th percentile per-packet one-way delay: 65.528 ms  
Loss rate: 1.68%

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

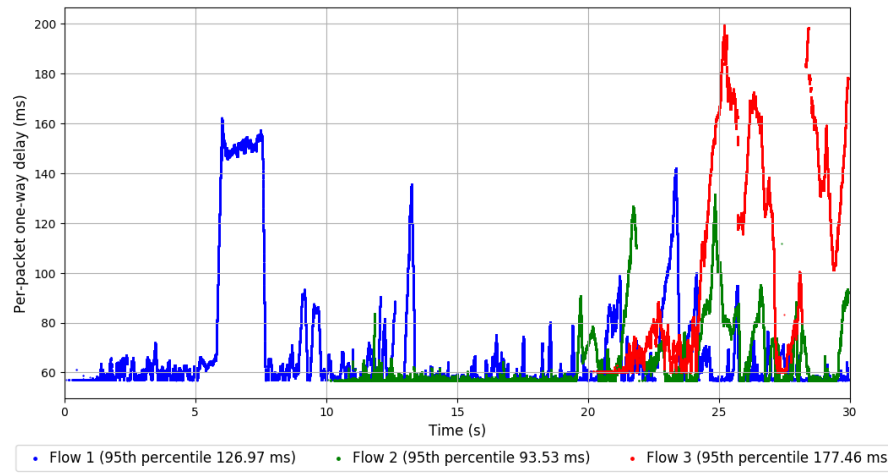
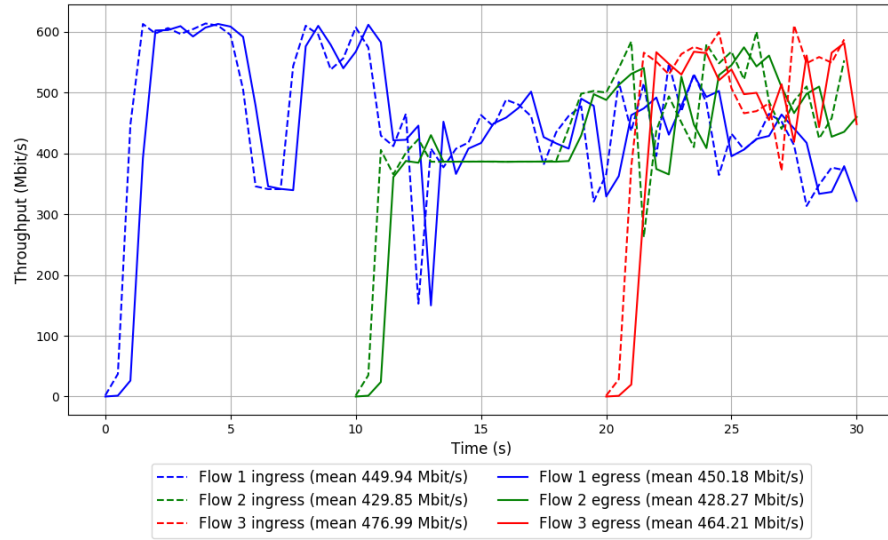


Run 3: Statistics of TCP BBR

Start at: 2019-09-19 05:55:58  
End at: 2019-09-19 05:56:28  
Local clock offset: -0.044 ms  
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2019-09-19 08:03:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 888.02 Mbit/s  
95th percentile per-packet one-way delay: 151.143 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 450.18 Mbit/s  
95th percentile per-packet one-way delay: 126.965 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 428.27 Mbit/s  
95th percentile per-packet one-way delay: 93.530 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 464.21 Mbit/s  
95th percentile per-packet one-way delay: 177.464 ms  
Loss rate: 3.83%

### Run 3: Report of TCP BBR — Data Link

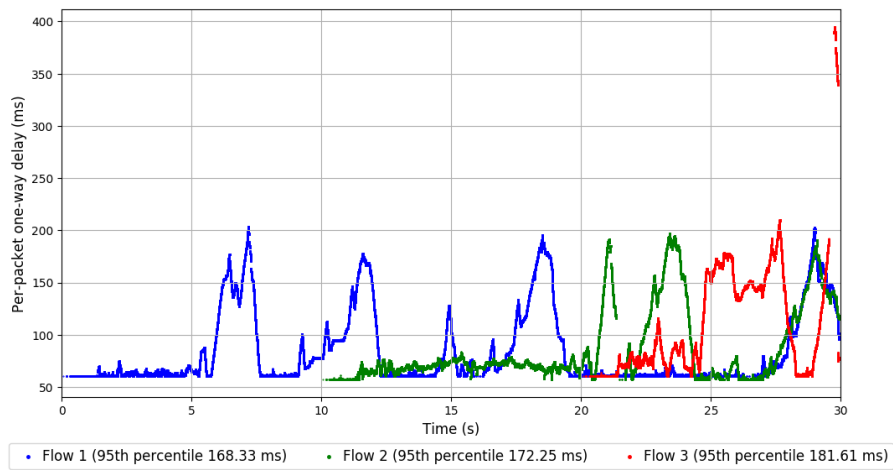
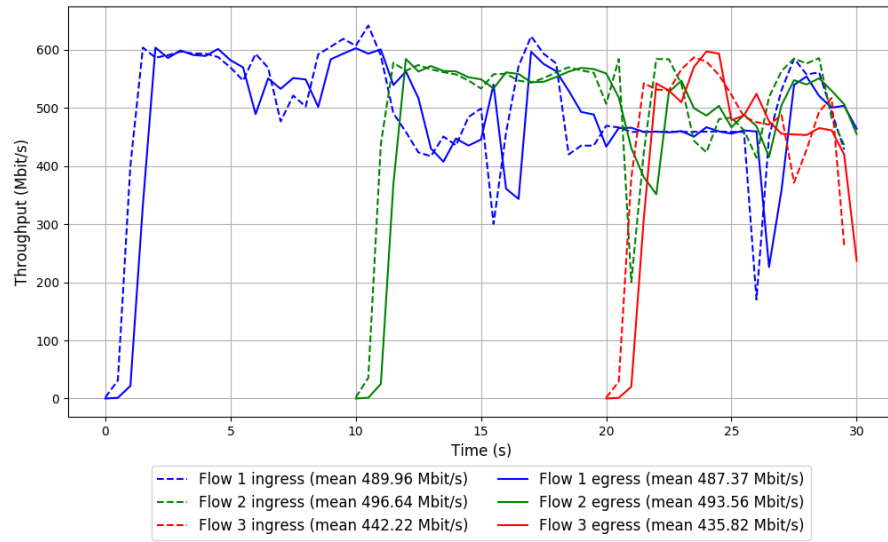


Run 4: Statistics of TCP BBR

Start at: 2019-09-19 06:36:57  
End at: 2019-09-19 06:37:27  
Local clock offset: 0.171 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-09-19 08:03:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 959.26 Mbit/s  
95th percentile per-packet one-way delay: 173.783 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 487.37 Mbit/s  
95th percentile per-packet one-way delay: 168.330 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 493.56 Mbit/s  
95th percentile per-packet one-way delay: 172.249 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 435.82 Mbit/s  
95th percentile per-packet one-way delay: 181.610 ms  
Loss rate: 2.61%

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





Run 5: Statistics of TCP BBR

Start at: 2019-09-19 07:18:11

End at: 2019-09-19 07:18:41

Local clock offset: -0.293 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-09-19 08:03:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 840.38 Mbit/s

95th percentile per-packet one-way delay: 170.638 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 446.58 Mbit/s

95th percentile per-packet one-way delay: 158.494 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 403.28 Mbit/s

95th percentile per-packet one-way delay: 146.001 ms

Loss rate: 0.49%

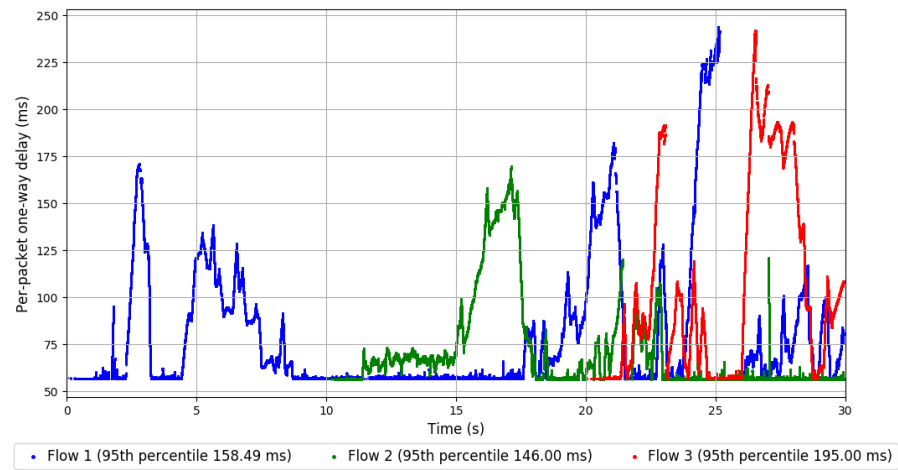
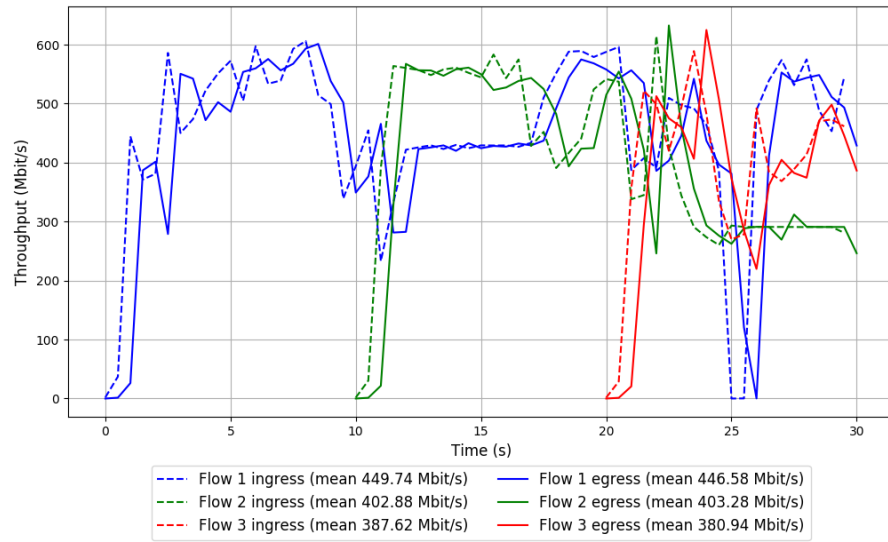
-- Flow 3:

Average throughput: 380.94 Mbit/s

95th percentile per-packet one-way delay: 195.001 ms

Loss rate: 2.88%

# Run 5: Report of TCP BBR — Data Link

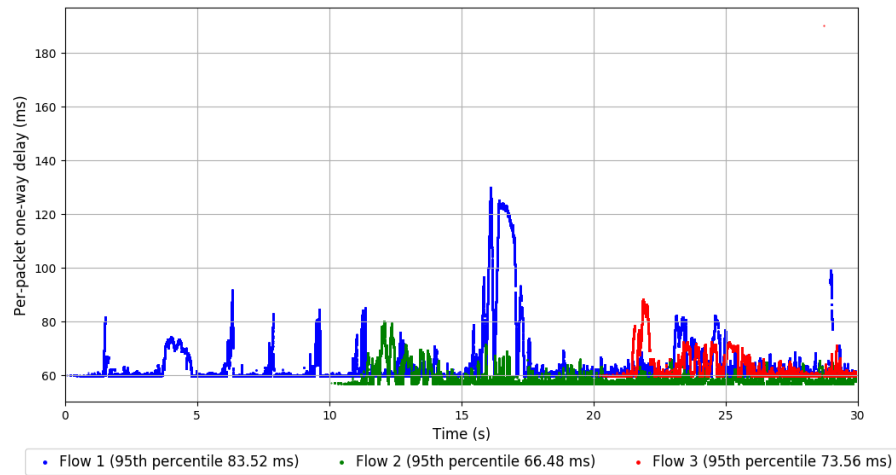
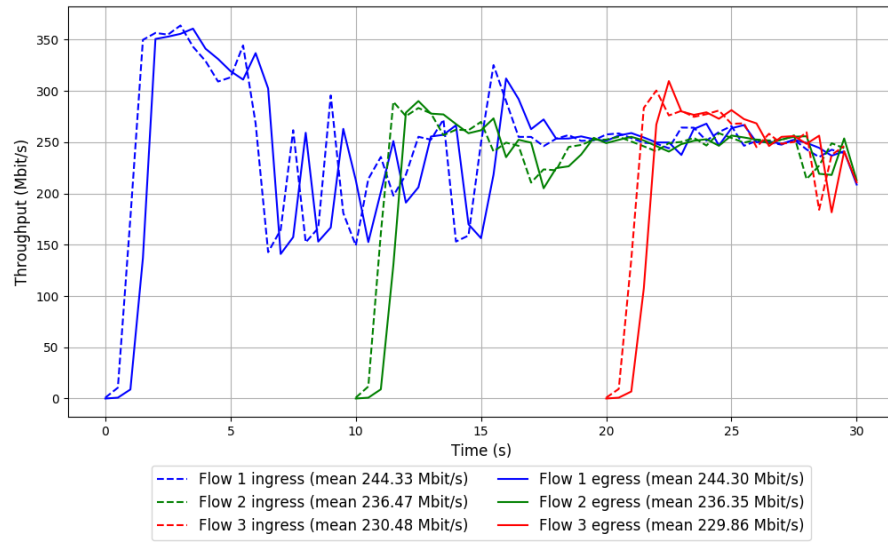


Run 1: Statistics of Copa

Start at: 2019-09-19 04:29:46  
End at: 2019-09-19 04:30:16  
Local clock offset: -0.281 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-09-19 08:03:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 477.07 Mbit/s  
95th percentile per-packet one-way delay: 76.960 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 244.30 Mbit/s  
95th percentile per-packet one-way delay: 83.518 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 236.35 Mbit/s  
95th percentile per-packet one-way delay: 66.480 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 229.86 Mbit/s  
95th percentile per-packet one-way delay: 73.564 ms  
Loss rate: 1.46%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-09-19 05:10:38

End at: 2019-09-19 05:11:08

Local clock offset: 0.144 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-09-19 08:03:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 504.27 Mbit/s

95th percentile per-packet one-way delay: 73.385 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 256.27 Mbit/s

95th percentile per-packet one-way delay: 69.576 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 247.27 Mbit/s

95th percentile per-packet one-way delay: 87.533 ms

Loss rate: 0.61%

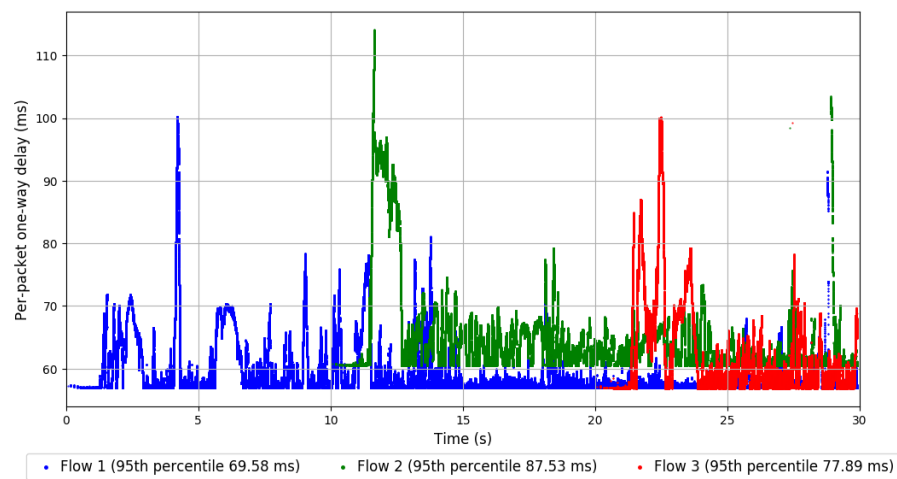
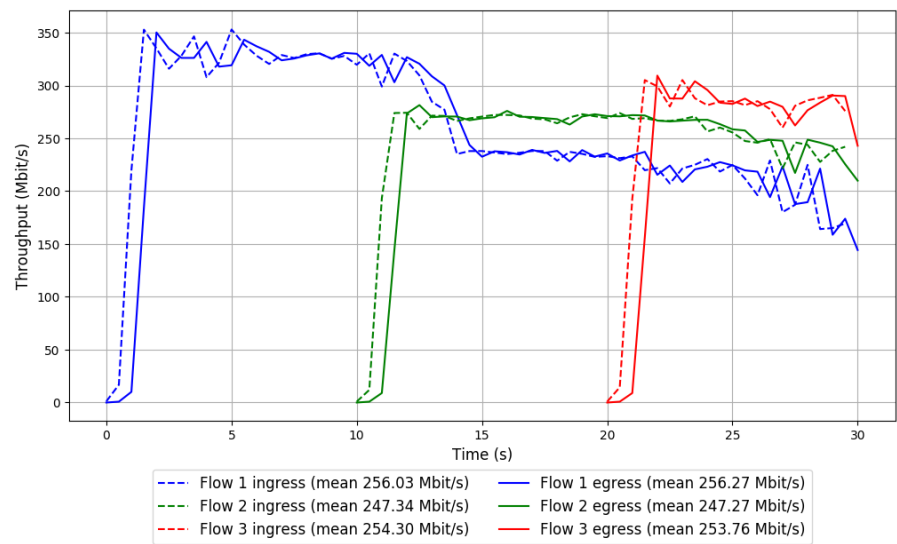
-- Flow 3:

Average throughput: 253.76 Mbit/s

95th percentile per-packet one-way delay: 77.891 ms

Loss rate: 1.34%

Run 2: Report of Copa — Data Link

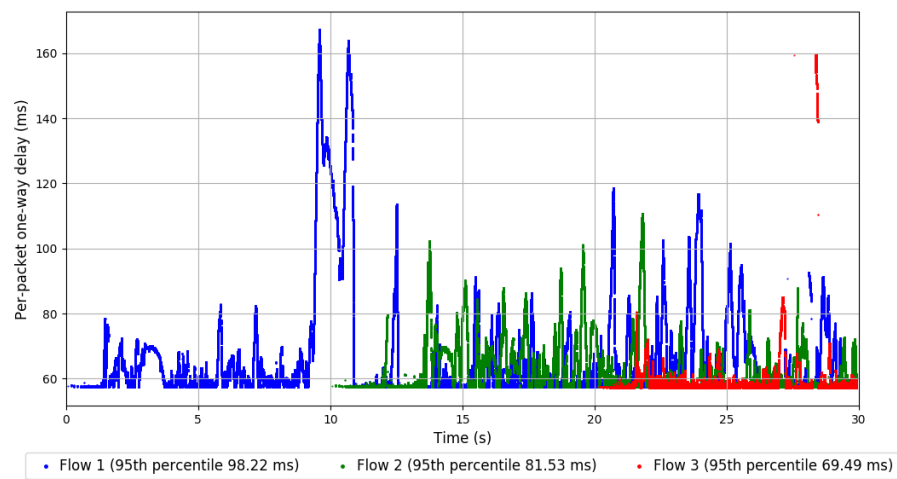
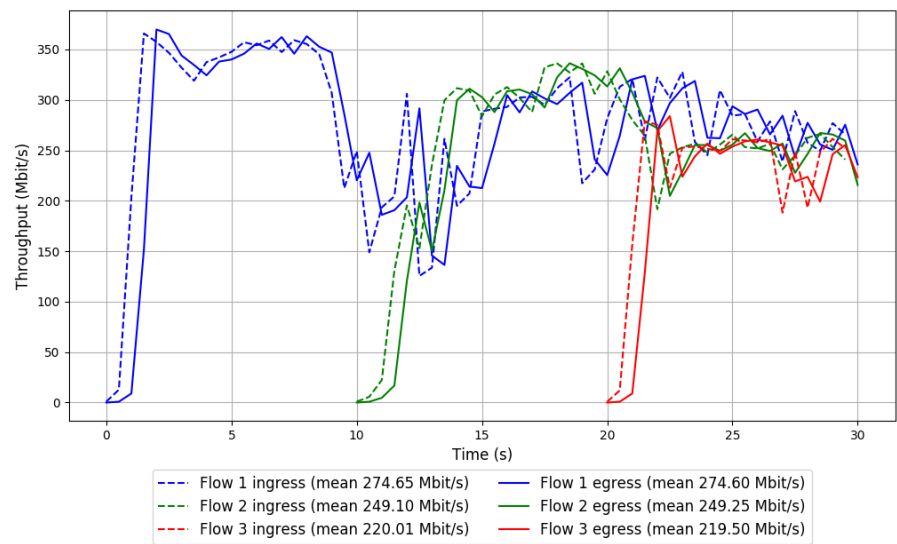


Run 3: Statistics of Copa

Start at: 2019-09-19 05:51:53  
End at: 2019-09-19 05:52:23  
Local clock offset: 0.317 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-09-19 08:03:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 512.46 Mbit/s  
95th percentile per-packet one-way delay: 87.914 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 274.60 Mbit/s  
95th percentile per-packet one-way delay: 98.215 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 249.25 Mbit/s  
95th percentile per-packet one-way delay: 81.535 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 219.50 Mbit/s  
95th percentile per-packet one-way delay: 69.493 ms  
Loss rate: 1.38%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-09-19 06:33:00

End at: 2019-09-19 06:33:30

Local clock offset: 0.303 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-09-19 08:19:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 537.50 Mbit/s

95th percentile per-packet one-way delay: 67.423 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 274.56 Mbit/s

95th percentile per-packet one-way delay: 70.204 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 275.63 Mbit/s

95th percentile per-packet one-way delay: 65.578 ms

Loss rate: 0.61%

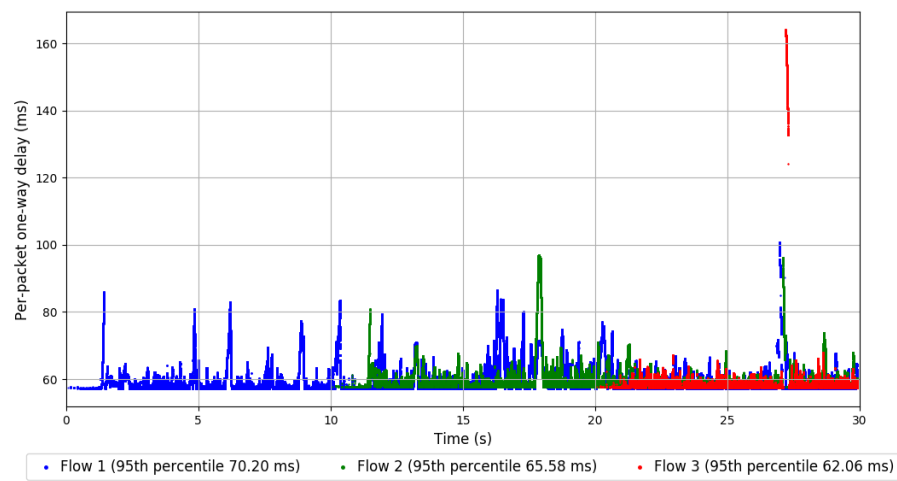
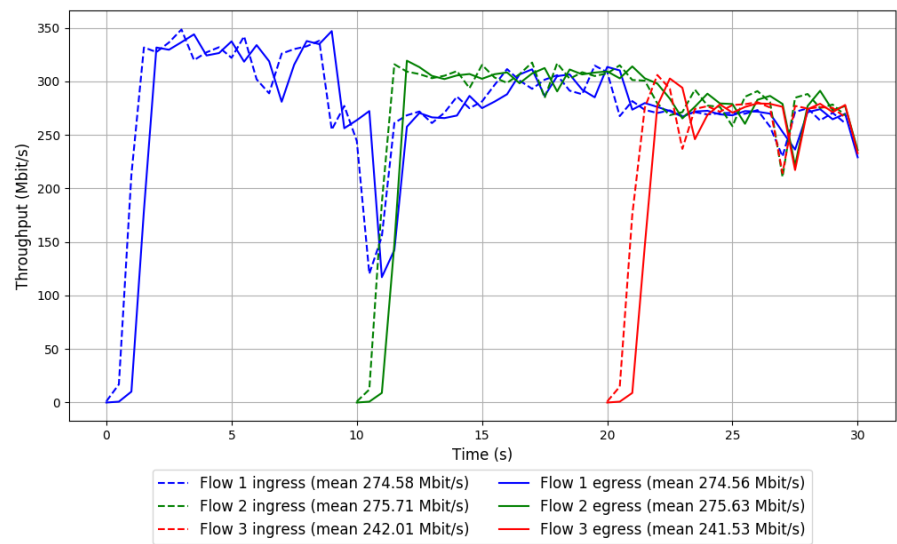
-- Flow 3:

Average throughput: 241.53 Mbit/s

95th percentile per-packet one-way delay: 62.058 ms

Loss rate: 1.34%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-09-19 07:14:13

End at: 2019-09-19 07:14:43

Local clock offset: -0.313 ms

Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-09-19 08:20:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 537.01 Mbit/s

95th percentile per-packet one-way delay: 72.482 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 255.09 Mbit/s

95th percentile per-packet one-way delay: 66.397 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 294.51 Mbit/s

95th percentile per-packet one-way delay: 77.586 ms

Loss rate: 0.58%

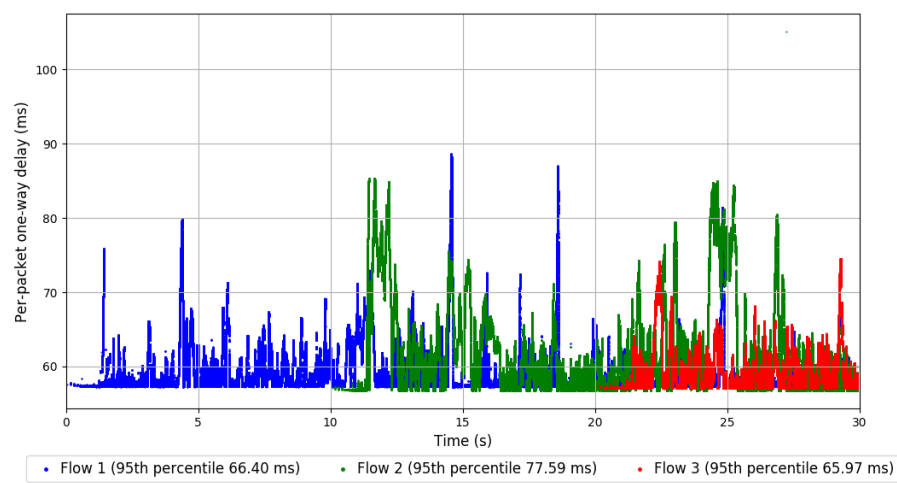
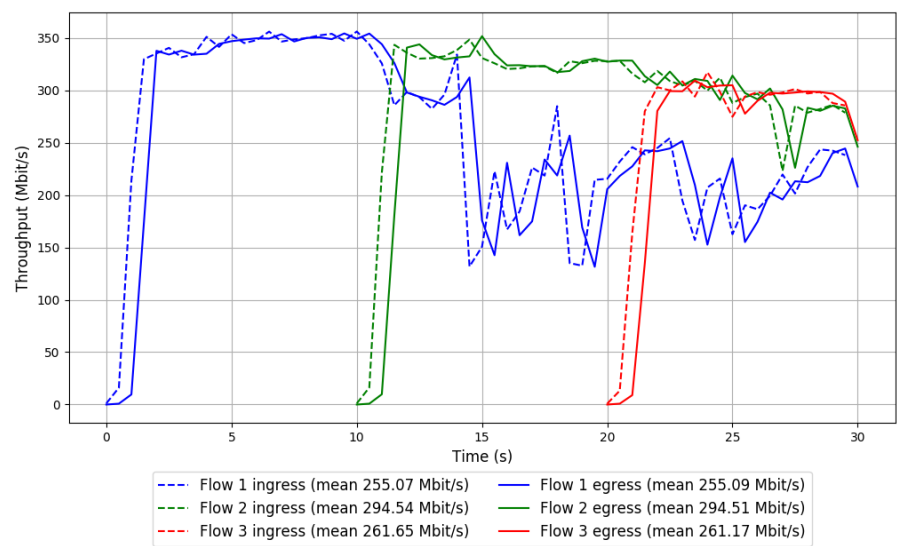
-- Flow 3:

Average throughput: 261.17 Mbit/s

95th percentile per-packet one-way delay: 65.969 ms

Loss rate: 1.33%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-09-19 04:31:43

End at: 2019-09-19 04:32:13

Local clock offset: 0.301 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-09-19 08:20:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 911.57 Mbit/s

95th percentile per-packet one-way delay: 99.423 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 465.97 Mbit/s

95th percentile per-packet one-way delay: 102.150 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 459.43 Mbit/s

95th percentile per-packet one-way delay: 78.031 ms

Loss rate: 0.65%

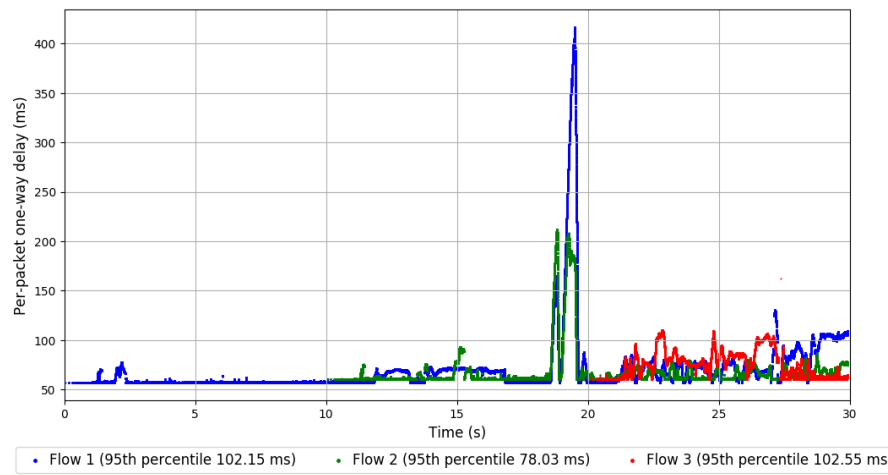
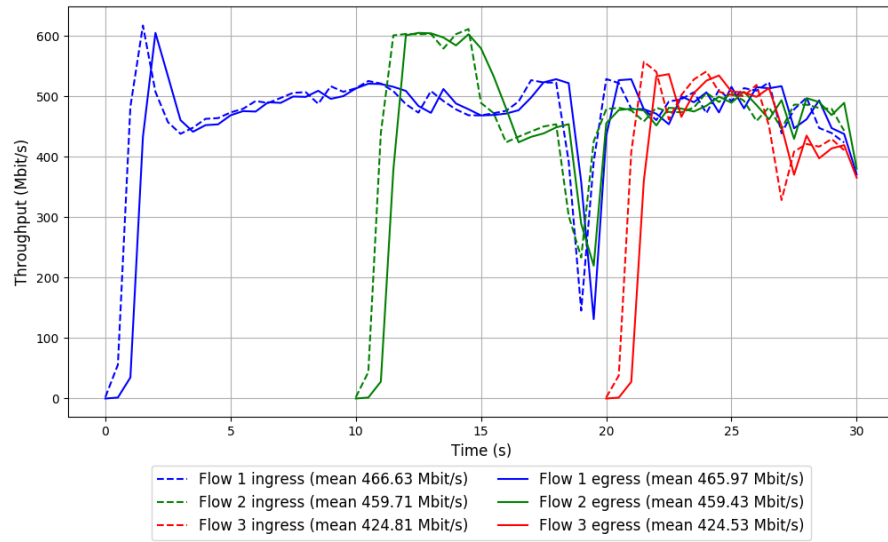
-- Flow 3:

Average throughput: 424.53 Mbit/s

95th percentile per-packet one-way delay: 102.552 ms

Loss rate: 1.24%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-09-19 05:12:37

End at: 2019-09-19 05:13:07

Local clock offset: -0.079 ms

Remote clock offset: -0.33 ms

# Below is generated by plot.py at 2019-09-19 08:20:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 993.94 Mbit/s

95th percentile per-packet one-way delay: 95.939 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 532.78 Mbit/s

95th percentile per-packet one-way delay: 94.640 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 463.24 Mbit/s

95th percentile per-packet one-way delay: 84.826 ms

Loss rate: 0.65%

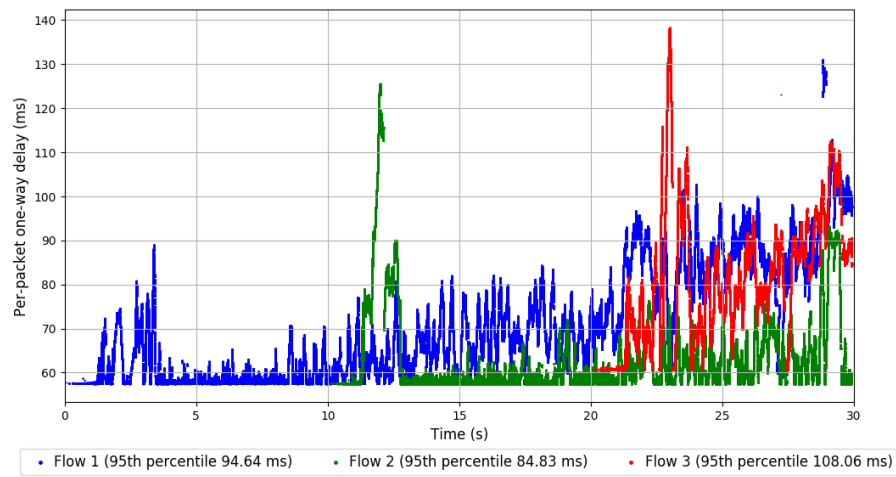
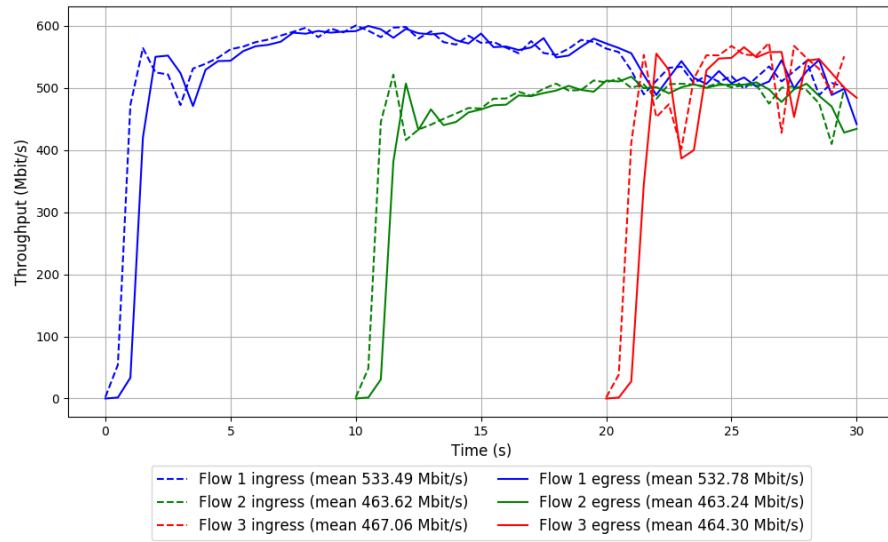
-- Flow 3:

Average throughput: 464.30 Mbit/s

95th percentile per-packet one-way delay: 108.056 ms

Loss rate: 1.76%

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



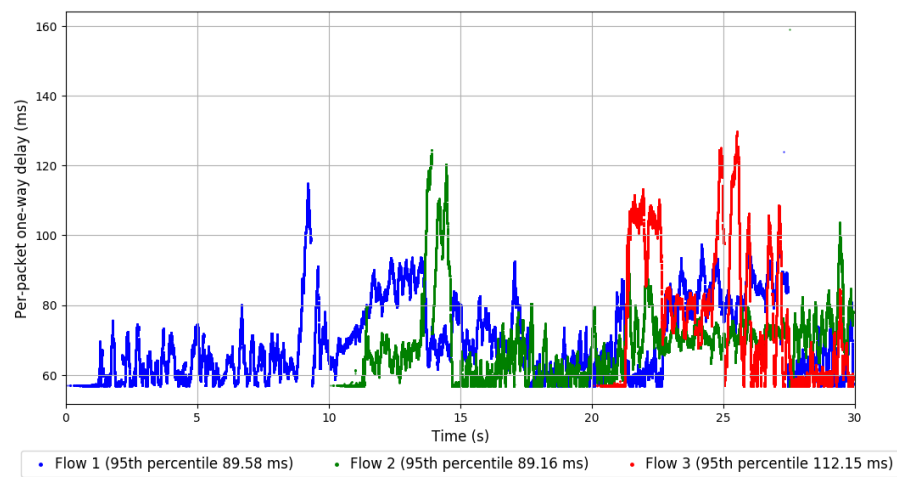
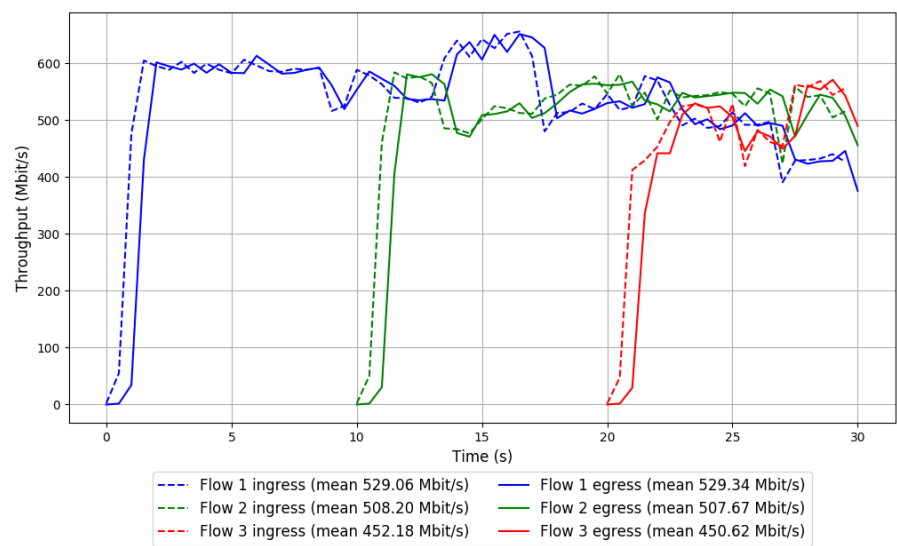


Run 3: Statistics of TCP Cubic

Start at: 2019-09-19 05:53:54  
End at: 2019-09-19 05:54:24  
Local clock offset: -0.036 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-09-19 08:21:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1015.58 Mbit/s  
95th percentile per-packet one-way delay: 95.046 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 529.34 Mbit/s  
95th percentile per-packet one-way delay: 89.584 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 507.67 Mbit/s  
95th percentile per-packet one-way delay: 89.161 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 450.62 Mbit/s  
95th percentile per-packet one-way delay: 112.146 ms  
Loss rate: 1.49%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-09-19 06:35:03

End at: 2019-09-19 06:35:33

Local clock offset: -0.495 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-09-19 08:21:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 808.28 Mbit/s

95th percentile per-packet one-way delay: 120.095 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 496.53 Mbit/s

95th percentile per-packet one-way delay: 120.608 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 238.41 Mbit/s

95th percentile per-packet one-way delay: 79.702 ms

Loss rate: 0.48%

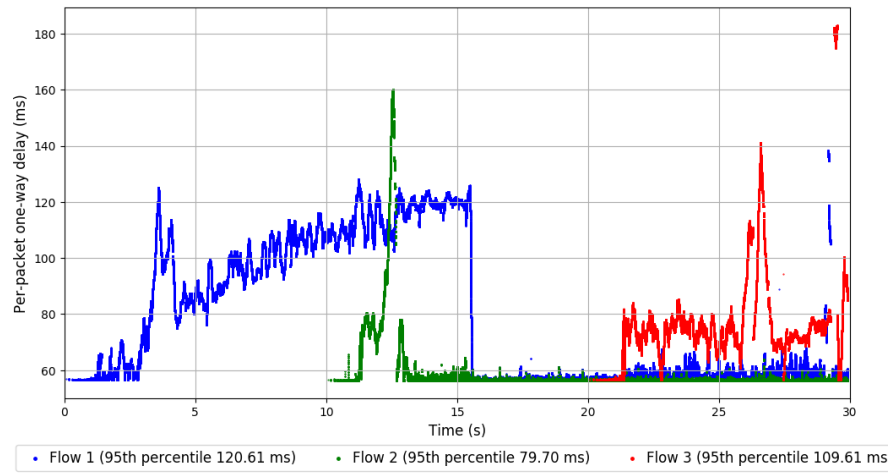
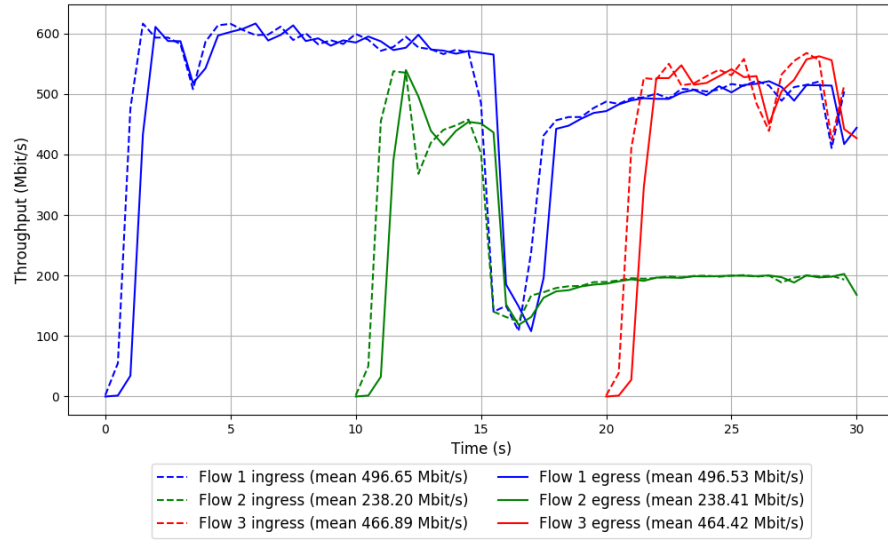
-- Flow 3:

Average throughput: 464.42 Mbit/s

95th percentile per-packet one-way delay: 109.614 ms

Loss rate: 1.66%

# Run 4: Report of TCP Cubic — Data Link

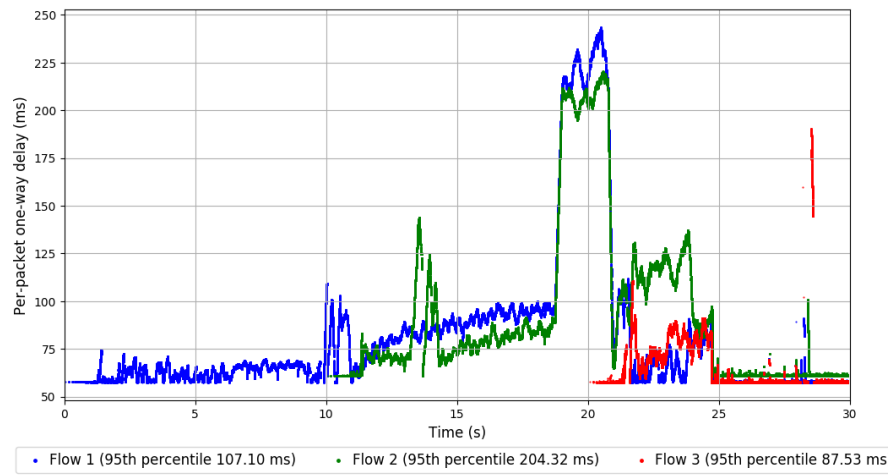
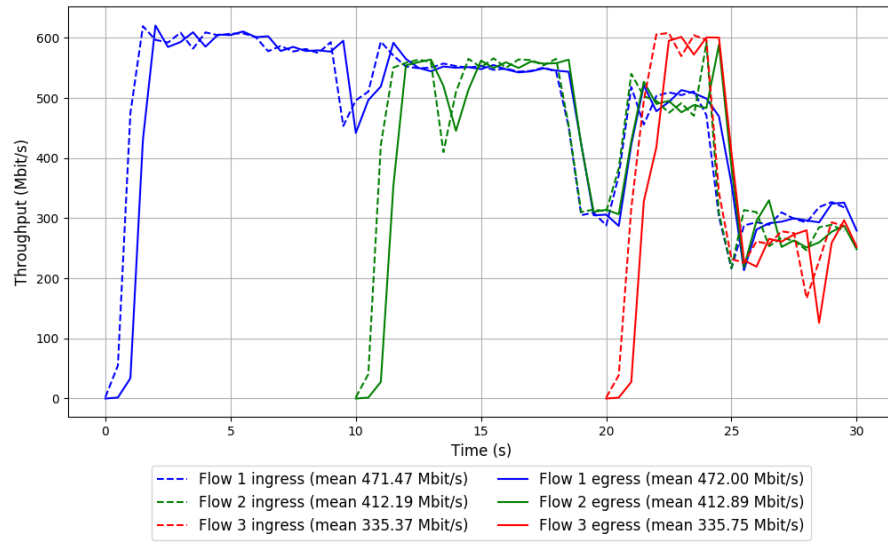


Run 5: Statistics of TCP Cubic

Start at: 2019-09-19 07:16:15  
End at: 2019-09-19 07:16:45  
Local clock offset: -0.083 ms  
Remote clock offset: -0.768 ms

# Below is generated by plot.py at 2019-09-19 08:21:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 857.25 Mbit/s  
95th percentile per-packet one-way delay: 148.328 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 472.00 Mbit/s  
95th percentile per-packet one-way delay: 107.099 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 412.89 Mbit/s  
95th percentile per-packet one-way delay: 204.325 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 335.75 Mbit/s  
95th percentile per-packet one-way delay: 87.534 ms  
Loss rate: 1.03%

# Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-09-19 04:24:49

End at: 2019-09-19 04:25:19

Local clock offset: 0.114 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-09-19 08:23:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 893.07 Mbit/s

95th percentile per-packet one-way delay: 94.513 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 567.33 Mbit/s

95th percentile per-packet one-way delay: 102.275 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 349.28 Mbit/s

95th percentile per-packet one-way delay: 61.048 ms

Loss rate: 0.43%

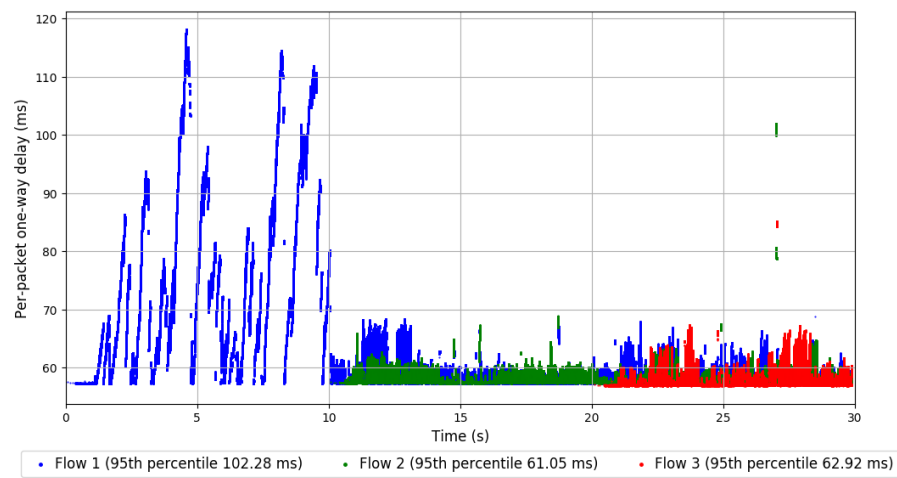
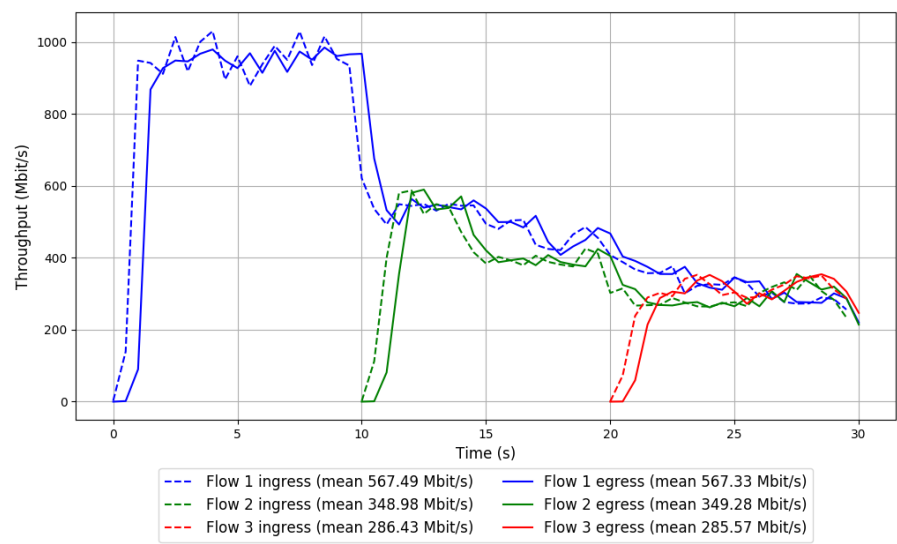
-- Flow 3:

Average throughput: 285.57 Mbit/s

95th percentile per-packet one-way delay: 62.921 ms

Loss rate: 1.45%

Run 1: Report of FillP — Data Link



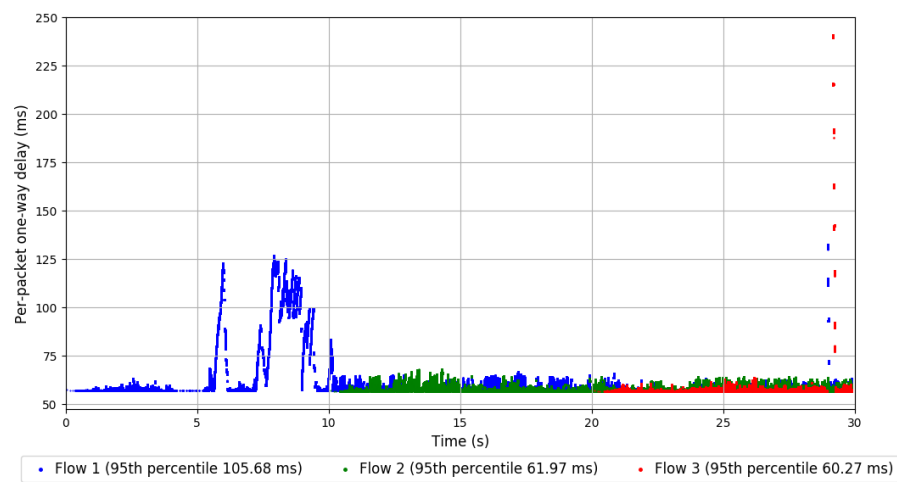
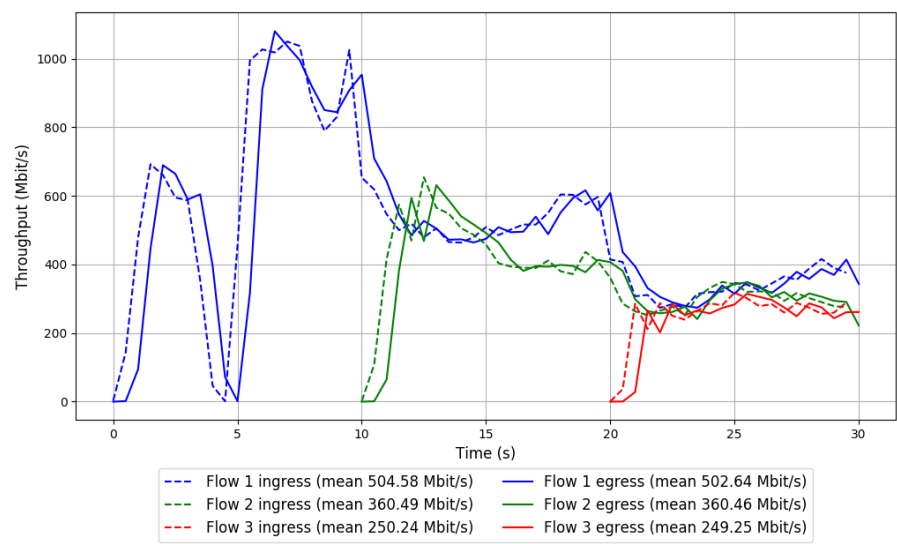


Run 2: Statistics of FillP

Start at: 2019-09-19 05:05:43  
End at: 2019-09-19 05:06:13  
Local clock offset: -0.295 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-09-19 08:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 823.77 Mbit/s  
95th percentile per-packet one-way delay: 96.419 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 502.64 Mbit/s  
95th percentile per-packet one-way delay: 105.678 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 360.46 Mbit/s  
95th percentile per-packet one-way delay: 61.970 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 249.25 Mbit/s  
95th percentile per-packet one-way delay: 60.268 ms  
Loss rate: 1.47%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-19 05:47:05

End at: 2019-09-19 05:47:35

Local clock offset: -0.048 ms

Remote clock offset: 0.774 ms

# Below is generated by plot.py at 2019-09-19 08:36:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 828.79 Mbit/s

95th percentile per-packet one-way delay: 108.689 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 535.22 Mbit/s

95th percentile per-packet one-way delay: 111.243 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 328.23 Mbit/s

95th percentile per-packet one-way delay: 61.228 ms

Loss rate: 0.45%

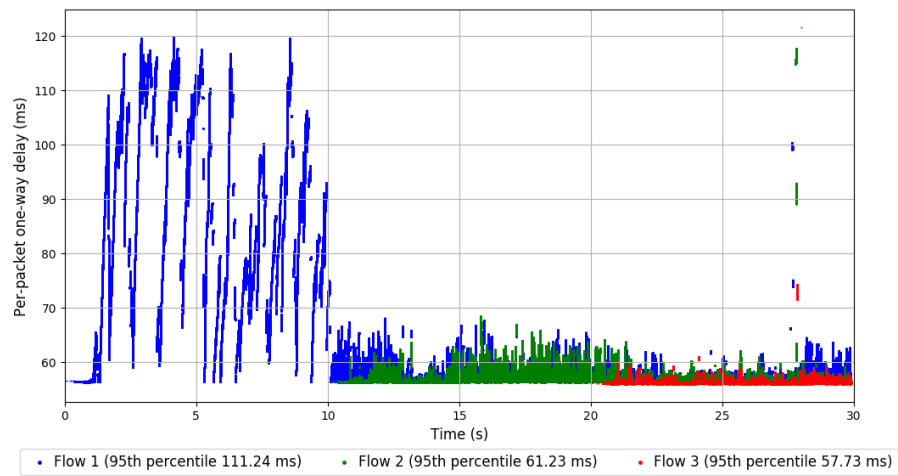
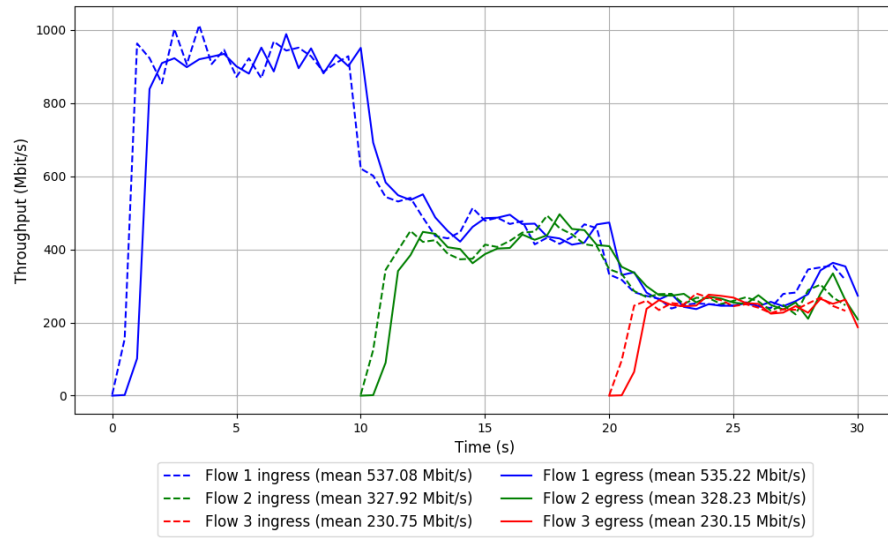
-- Flow 3:

Average throughput: 230.15 Mbit/s

95th percentile per-packet one-way delay: 57.731 ms

Loss rate: 1.42%

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



Run 4: Statistics of FillP

Start at: 2019-09-19 06:28:06

End at: 2019-09-19 06:28:36

Local clock offset: -0.272 ms

Remote clock offset: -0.85 ms

# Below is generated by plot.py at 2019-09-19 08:37:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 831.31 Mbit/s

95th percentile per-packet one-way delay: 108.300 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 514.06 Mbit/s

95th percentile per-packet one-way delay: 112.839 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 346.21 Mbit/s

95th percentile per-packet one-way delay: 77.749 ms

Loss rate: 0.41%

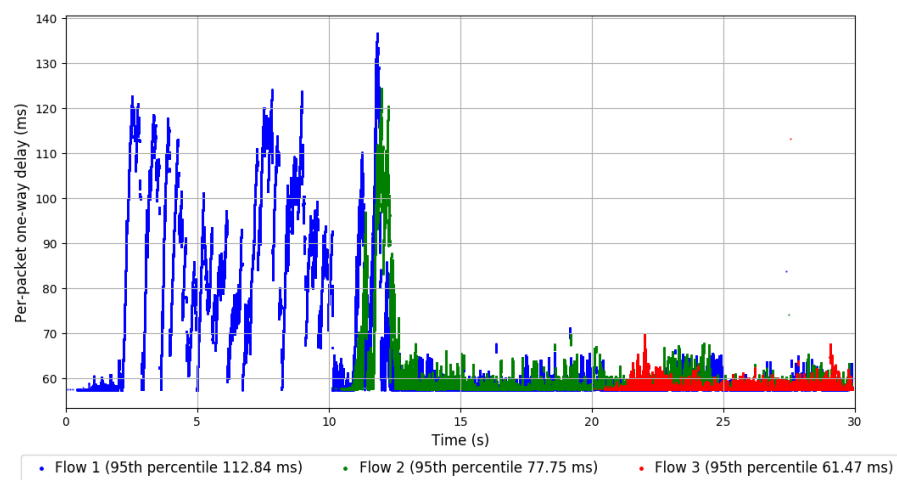
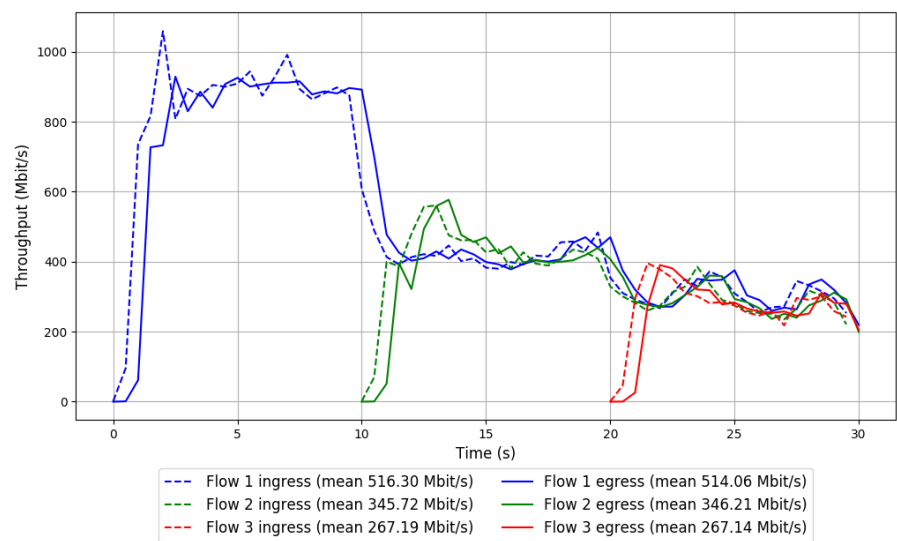
-- Flow 3:

Average throughput: 267.14 Mbit/s

95th percentile per-packet one-way delay: 61.469 ms

Loss rate: 1.12%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-09-19 07:09:16

End at: 2019-09-19 07:09:46

Local clock offset: -0.028 ms

Remote clock offset: 0.876 ms

# Below is generated by plot.py at 2019-09-19 08:38:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 880.42 Mbit/s

95th percentile per-packet one-way delay: 101.838 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 560.68 Mbit/s

95th percentile per-packet one-way delay: 106.165 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 343.14 Mbit/s

95th percentile per-packet one-way delay: 60.414 ms

Loss rate: 0.46%

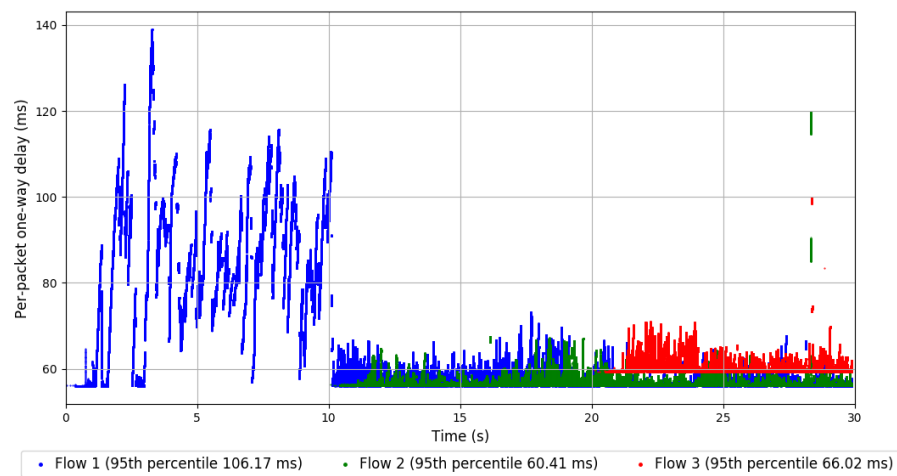
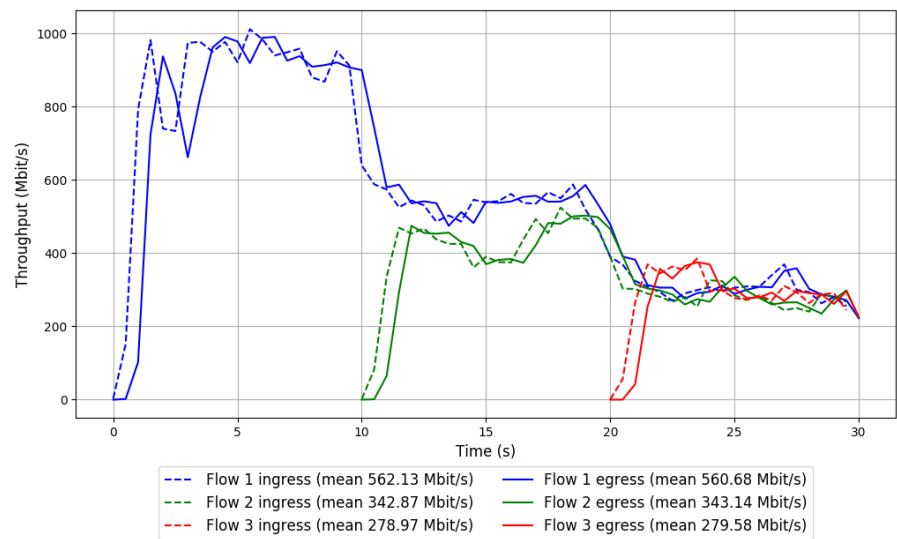
-- Flow 3:

Average throughput: 279.58 Mbit/s

95th percentile per-packet one-way delay: 66.019 ms

Loss rate: 1.08%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-09-19 04:14:32

End at: 2019-09-19 04:15:02

Local clock offset: -0.124 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-09-19 08:38:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 843.54 Mbit/s

95th percentile per-packet one-way delay: 83.601 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 528.98 Mbit/s

95th percentile per-packet one-way delay: 99.613 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 355.32 Mbit/s

95th percentile per-packet one-way delay: 66.733 ms

Loss rate: 0.46%

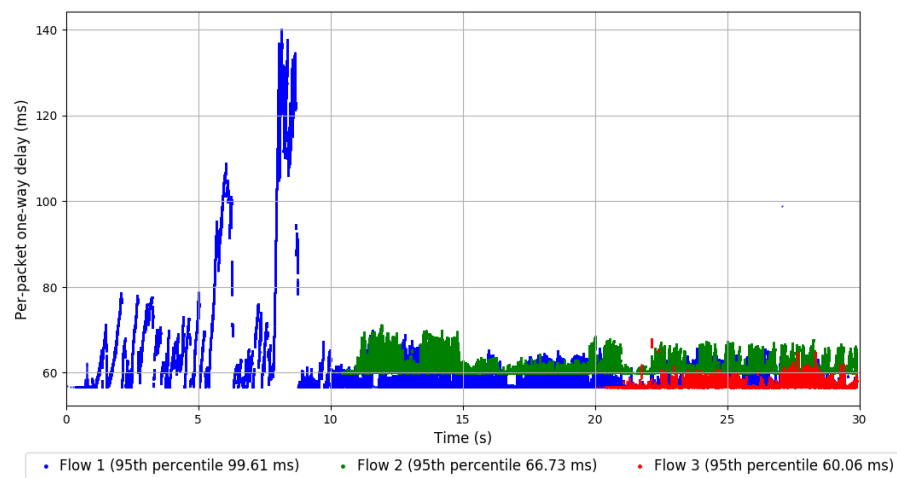
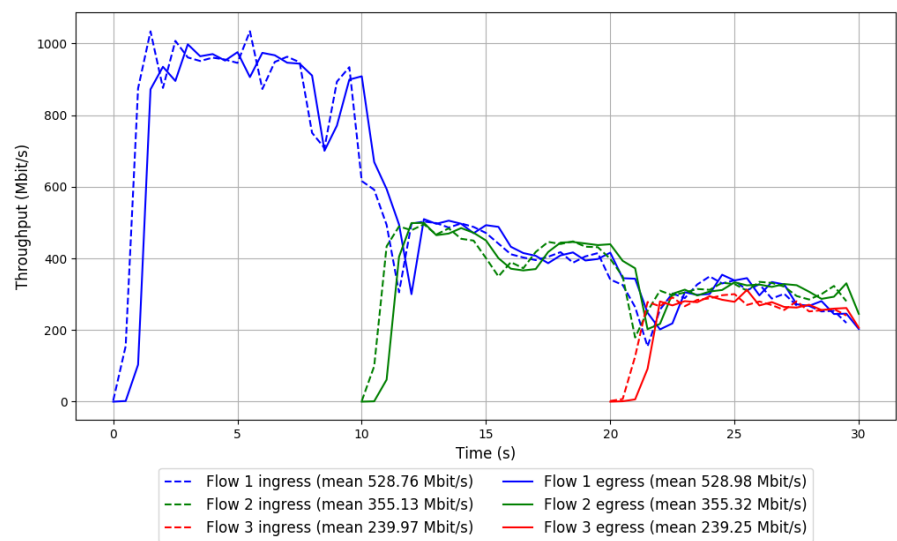
-- Flow 3:

Average throughput: 239.25 Mbit/s

95th percentile per-packet one-way delay: 60.061 ms

Loss rate: 1.39%

Run 1: Report of FillP-Sheep — Data Link

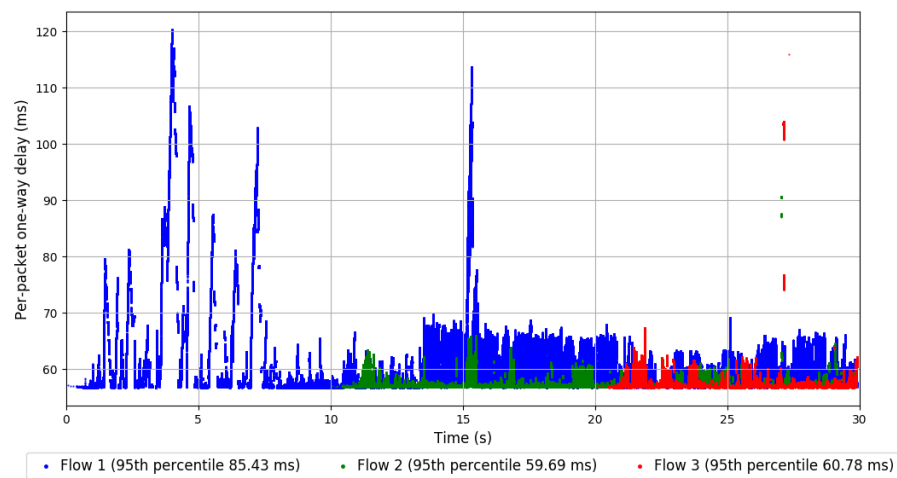
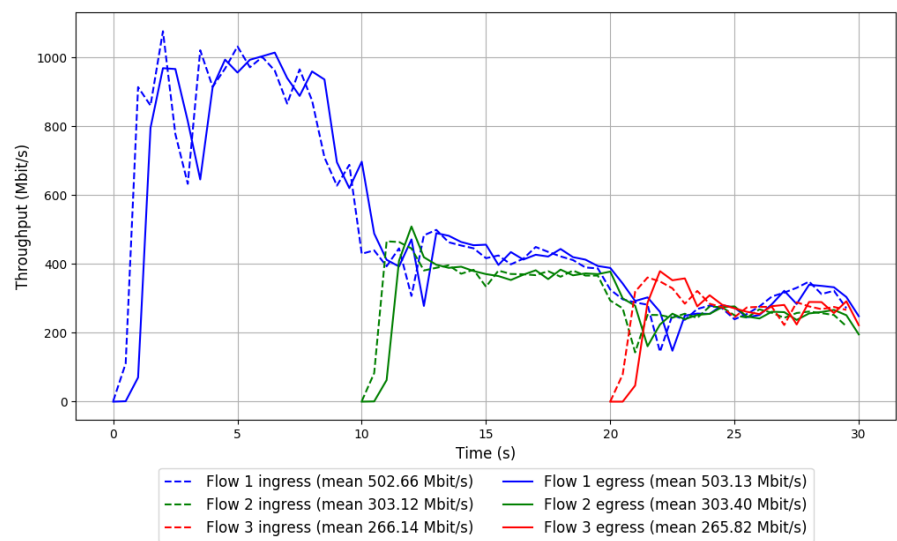


Run 2: Statistics of FillP-Sheep

Start at: 2019-09-19 04:55:28  
End at: 2019-09-19 04:55:58  
Local clock offset: -0.109 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-09-19 08:38:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 791.91 Mbit/s  
95th percentile per-packet one-way delay: 78.301 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 503.13 Mbit/s  
95th percentile per-packet one-way delay: 85.428 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 303.40 Mbit/s  
95th percentile per-packet one-way delay: 59.693 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 265.82 Mbit/s  
95th percentile per-packet one-way delay: 60.782 ms  
Loss rate: 1.16%

Run 2: Report of FillP-Sheep — Data Link

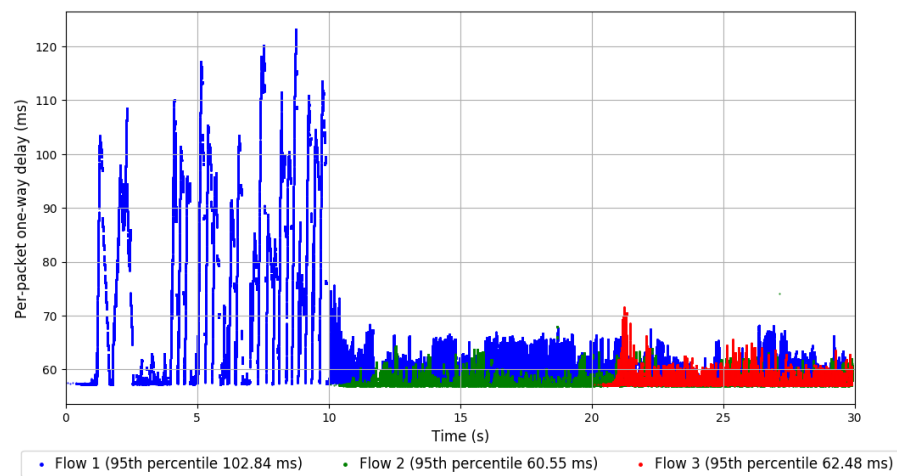
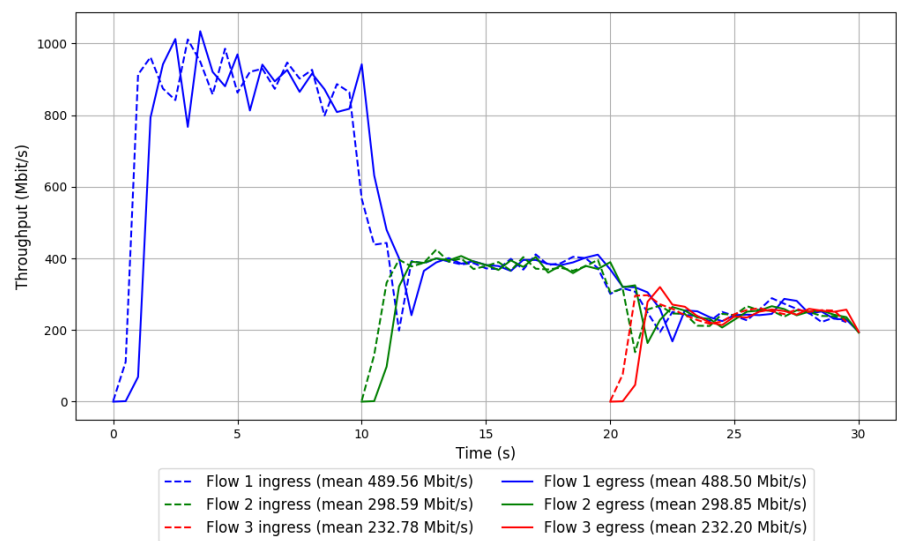


Run 3: Statistics of FillP-Sheep

Start at: 2019-09-19 05:36:50  
End at: 2019-09-19 05:37:20  
Local clock offset: 0.103 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-09-19 08:38:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 763.11 Mbit/s  
95th percentile per-packet one-way delay: 99.766 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 488.50 Mbit/s  
95th percentile per-packet one-way delay: 102.837 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 298.85 Mbit/s  
95th percentile per-packet one-way delay: 60.548 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 232.20 Mbit/s  
95th percentile per-packet one-way delay: 62.483 ms  
Loss rate: 1.35%

Run 3: Report of FillP-Sheep — Data Link

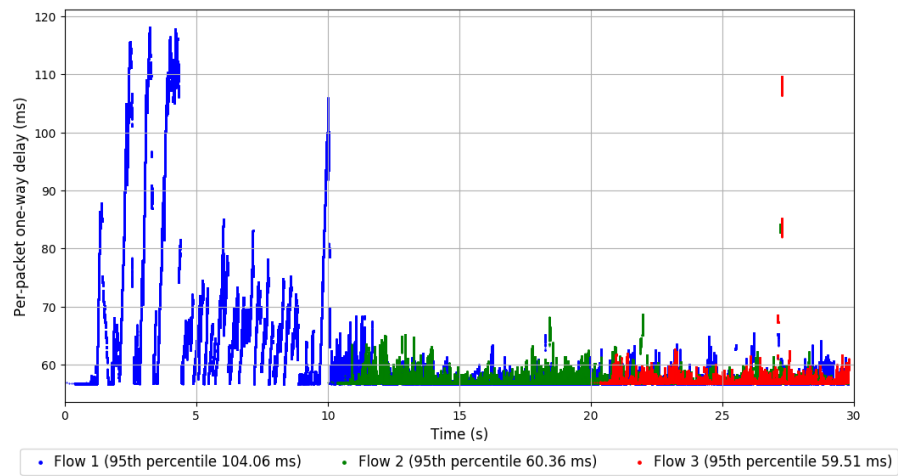
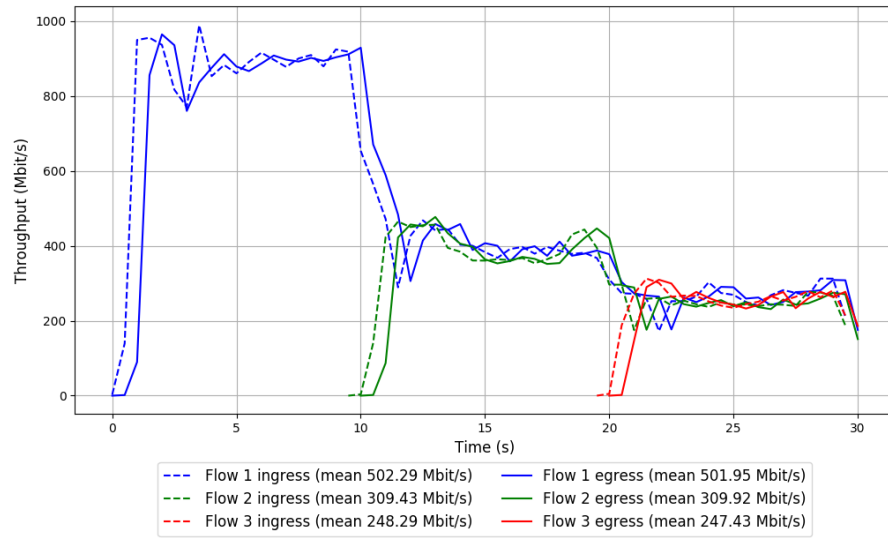


Run 4: Statistics of FillP-Sheep

Start at: 2019-09-19 06:17:49  
End at: 2019-09-19 06:18:19  
Local clock offset: -0.256 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-09-19 08:40:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 789.25 Mbit/s  
95th percentile per-packet one-way delay: 89.123 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 501.95 Mbit/s  
95th percentile per-packet one-way delay: 104.064 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 309.92 Mbit/s  
95th percentile per-packet one-way delay: 60.356 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 247.43 Mbit/s  
95th percentile per-packet one-way delay: 59.509 ms  
Loss rate: 1.42%

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



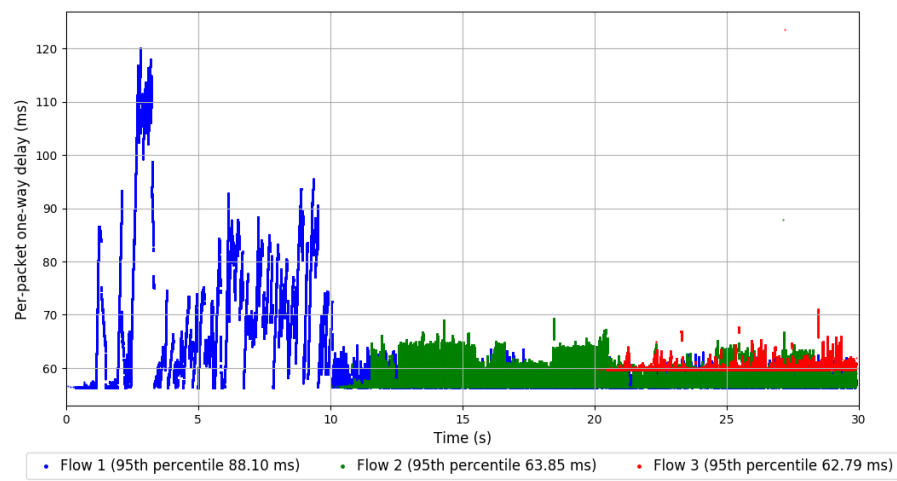
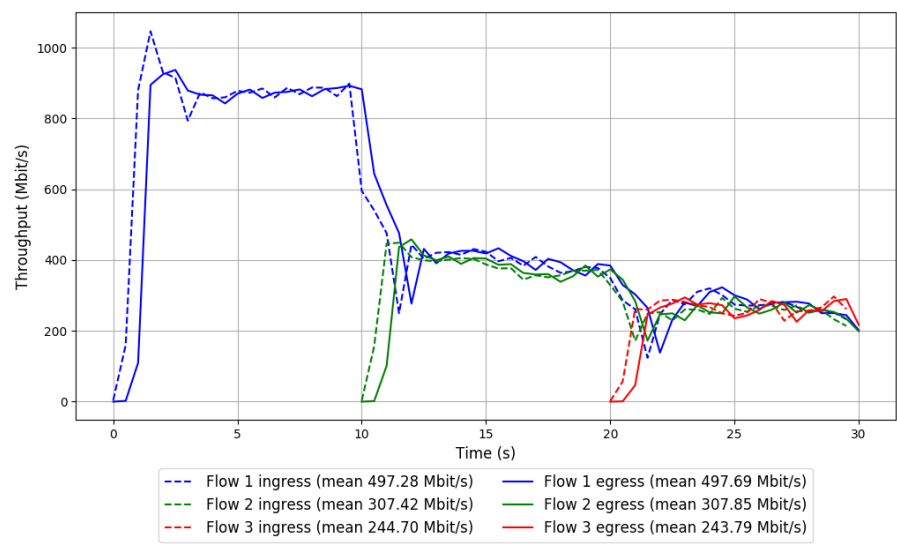


Run 5: Statistics of FillP-Sheep

Start at: 2019-09-19 06:59:03  
End at: 2019-09-19 06:59:33  
Local clock offset: -0.477 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-09-19 08:53:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 782.22 Mbit/s  
95th percentile per-packet one-way delay: 83.871 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 497.69 Mbit/s  
95th percentile per-packet one-way delay: 88.100 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 307.85 Mbit/s  
95th percentile per-packet one-way delay: 63.846 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 243.79 Mbit/s  
95th percentile per-packet one-way delay: 62.789 ms  
Loss rate: 1.46%

Run 5: Report of FillP-Sheep — Data Link

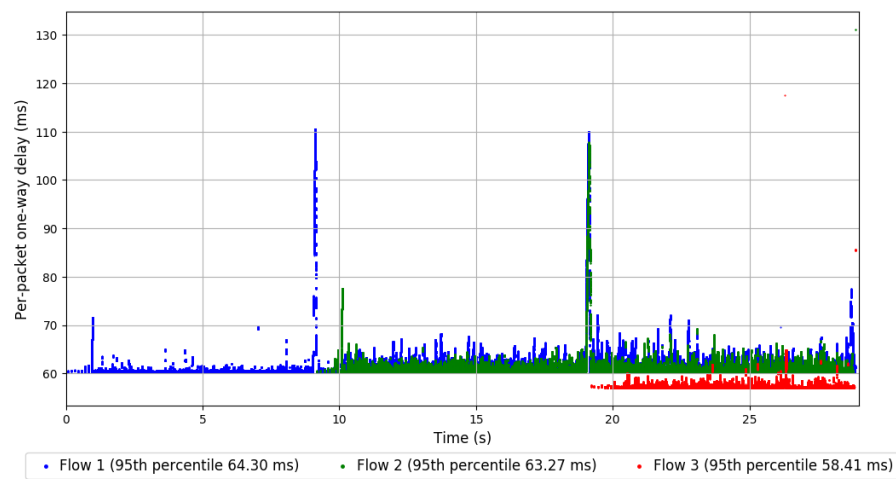
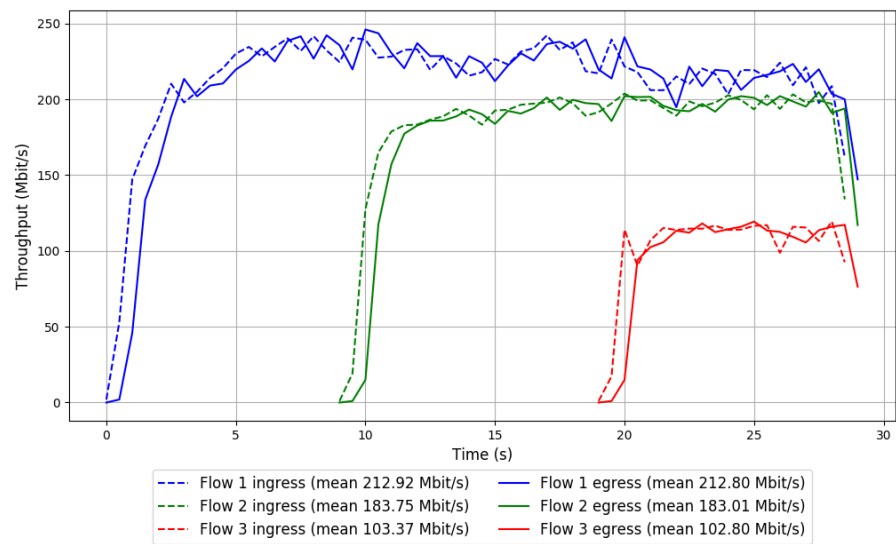


Run 1: Statistics of Indigo

Start at: 2019-09-19 04:23:02  
End at: 2019-09-19 04:23:32  
Local clock offset: 0.193 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-09-19 08:53:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 372.35 Mbit/s  
95th percentile per-packet one-way delay: 63.722 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 212.80 Mbit/s  
95th percentile per-packet one-way delay: 64.301 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 183.01 Mbit/s  
95th percentile per-packet one-way delay: 63.270 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 102.80 Mbit/s  
95th percentile per-packet one-way delay: 58.410 ms  
Loss rate: 1.34%

Run 1: Report of Indigo — Data Link

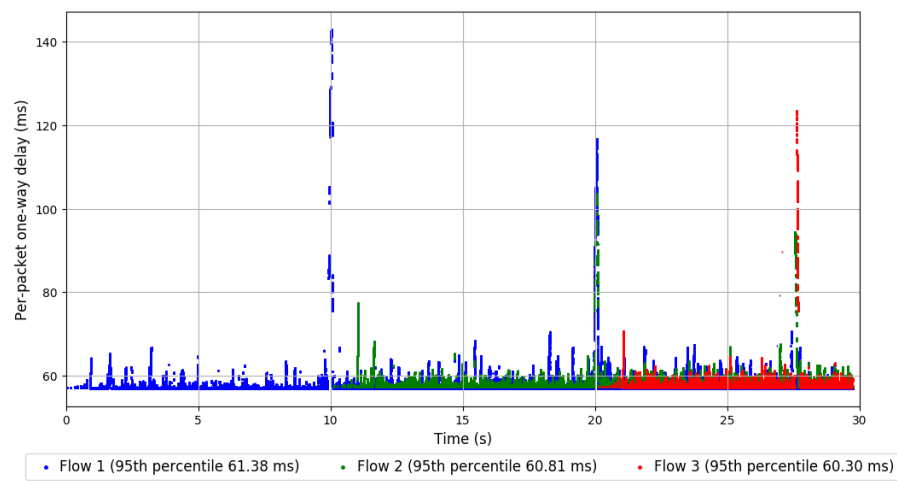
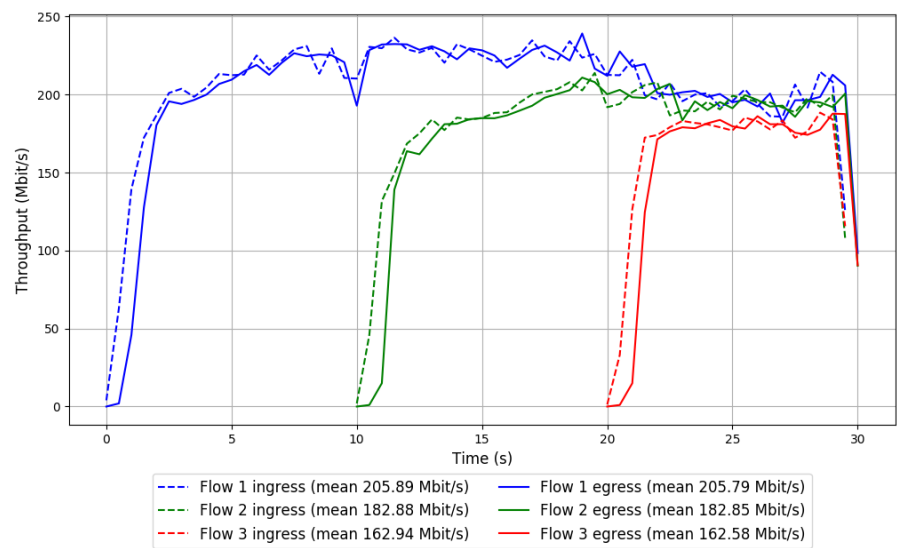


Run 2: Statistics of Indigo

Start at: 2019-09-19 05:03:55  
End at: 2019-09-19 05:04:25  
Local clock offset: -0.096 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-09-19 08:53:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 378.81 Mbit/s  
95th percentile per-packet one-way delay: 61.027 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 205.79 Mbit/s  
95th percentile per-packet one-way delay: 61.384 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 182.85 Mbit/s  
95th percentile per-packet one-way delay: 60.814 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 162.58 Mbit/s  
95th percentile per-packet one-way delay: 60.299 ms  
Loss rate: 1.40%

Run 2: Report of Indigo — Data Link

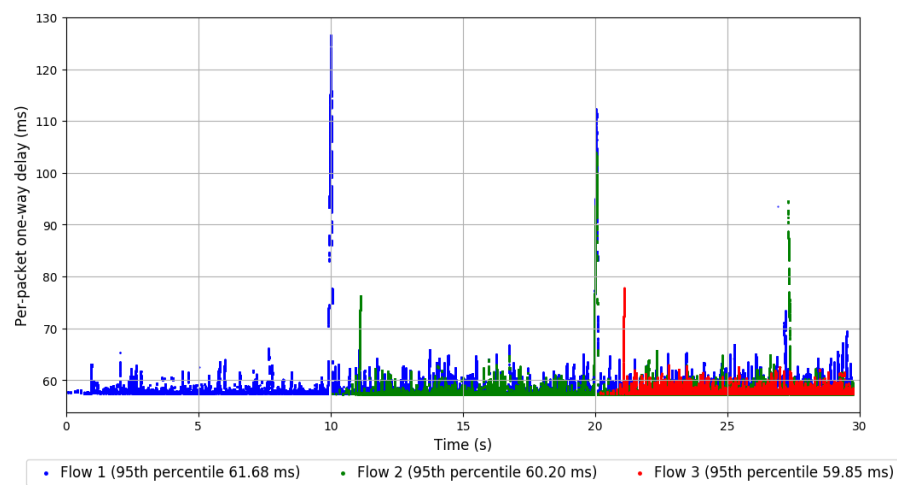
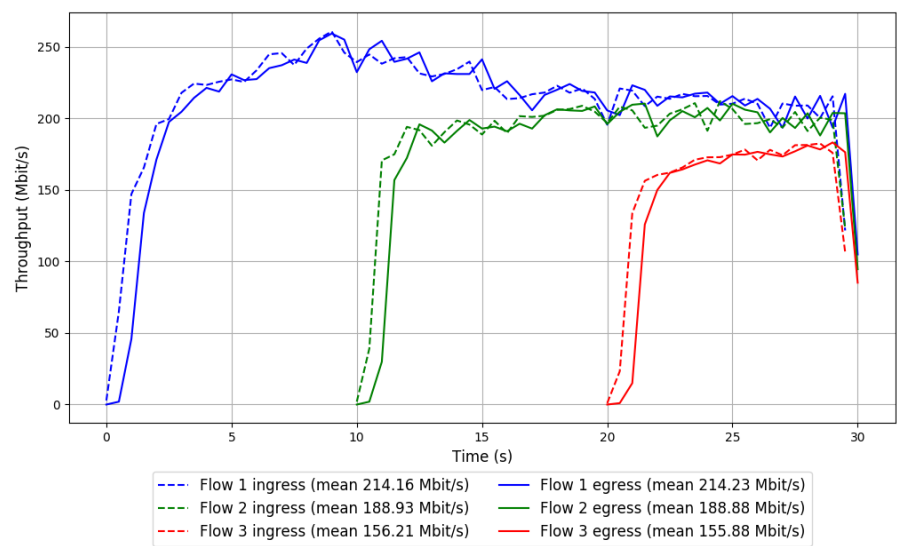


Run 3: Statistics of Indigo

Start at: 2019-09-19 05:45:16  
End at: 2019-09-19 05:45:46  
Local clock offset: -0.128 ms  
Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2019-09-19 08:53:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 389.53 Mbit/s  
95th percentile per-packet one-way delay: 61.082 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 214.23 Mbit/s  
95th percentile per-packet one-way delay: 61.682 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 188.88 Mbit/s  
95th percentile per-packet one-way delay: 60.204 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 155.88 Mbit/s  
95th percentile per-packet one-way delay: 59.850 ms  
Loss rate: 1.40%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-09-19 06:26:16

End at: 2019-09-19 06:26:46

Local clock offset: 0.164 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-09-19 08:53:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 395.36 Mbit/s

95th percentile per-packet one-way delay: 63.111 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 214.42 Mbit/s

95th percentile per-packet one-way delay: 63.724 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 202.31 Mbit/s

95th percentile per-packet one-way delay: 61.548 ms

Loss rate: 0.52%

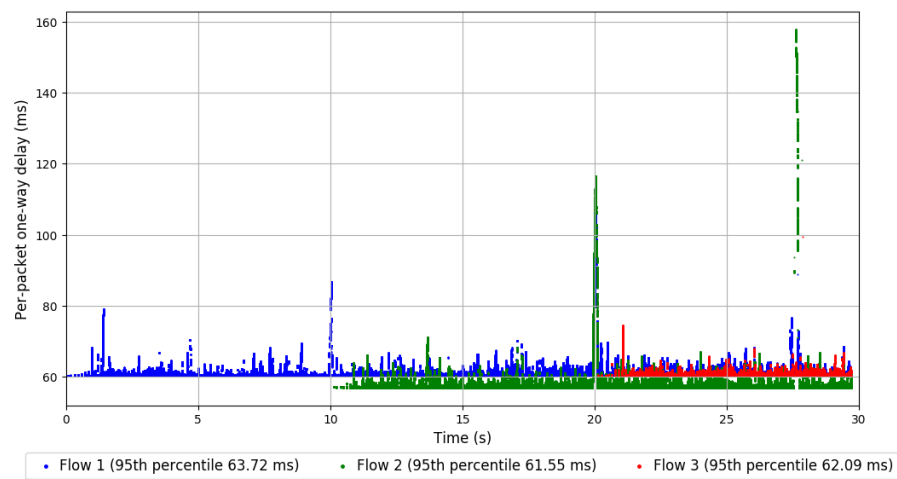
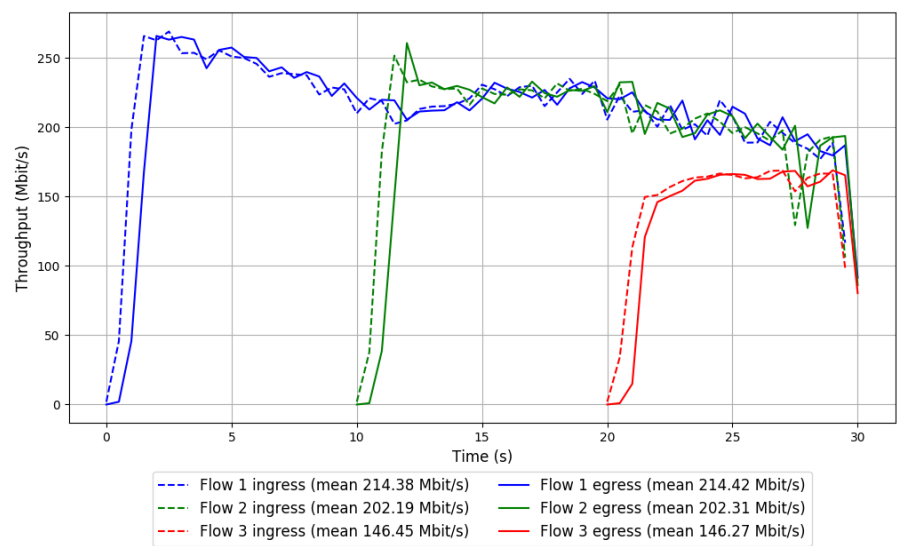
-- Flow 3:

Average throughput: 146.27 Mbit/s

95th percentile per-packet one-way delay: 62.095 ms

Loss rate: 1.34%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-09-19 07:07:27

End at: 2019-09-19 07:07:57

Local clock offset: -0.049 ms

Remote clock offset: 0.614 ms

# Below is generated by plot.py at 2019-09-19 08:53:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 393.15 Mbit/s

95th percentile per-packet one-way delay: 63.616 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 214.09 Mbit/s

95th percentile per-packet one-way delay: 65.052 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 195.24 Mbit/s

95th percentile per-packet one-way delay: 59.599 ms

Loss rate: 0.54%

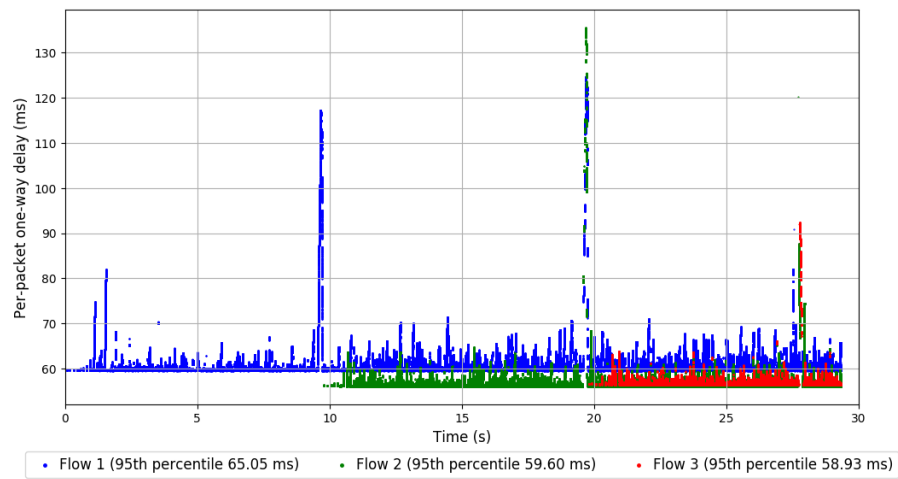
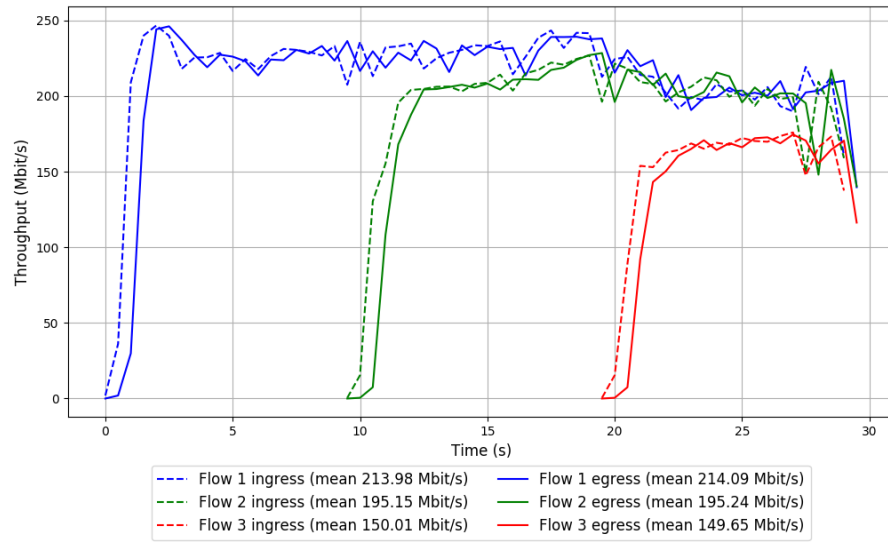
-- Flow 3:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 58.934 ms

Loss rate: 1.42%

## Run 5: Report of Indigo — Data Link

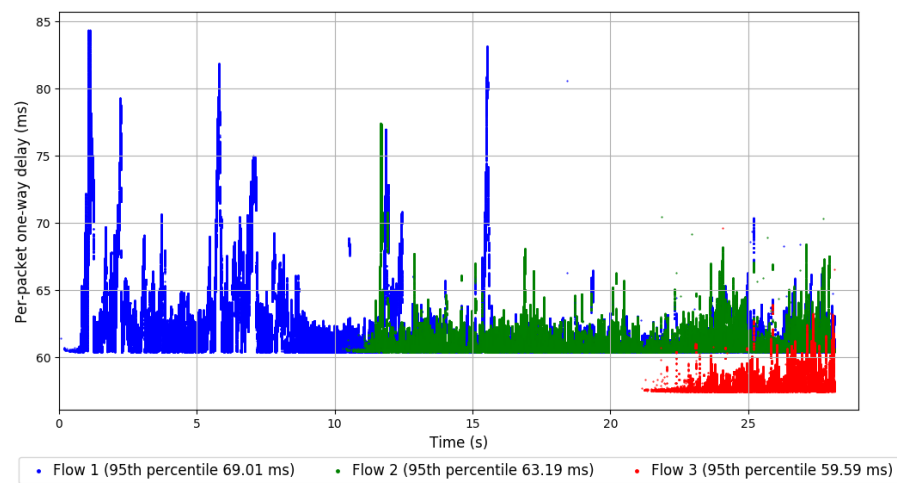
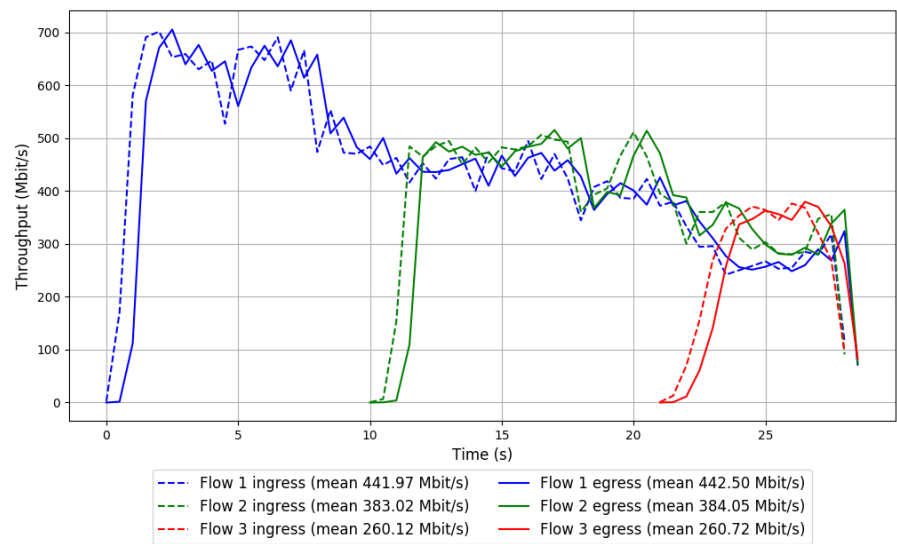


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-19 04:12:44  
End at: 2019-09-19 04:13:14  
Local clock offset: 0.166 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-09-19 08:53:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 751.35 Mbit/s  
95th percentile per-packet one-way delay: 66.768 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 442.50 Mbit/s  
95th percentile per-packet one-way delay: 69.007 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 384.05 Mbit/s  
95th percentile per-packet one-way delay: 63.185 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 260.72 Mbit/s  
95th percentile per-packet one-way delay: 59.594 ms  
Loss rate: 1.40%

Run 1: Report of Indigo-MusesC3 — Data Link

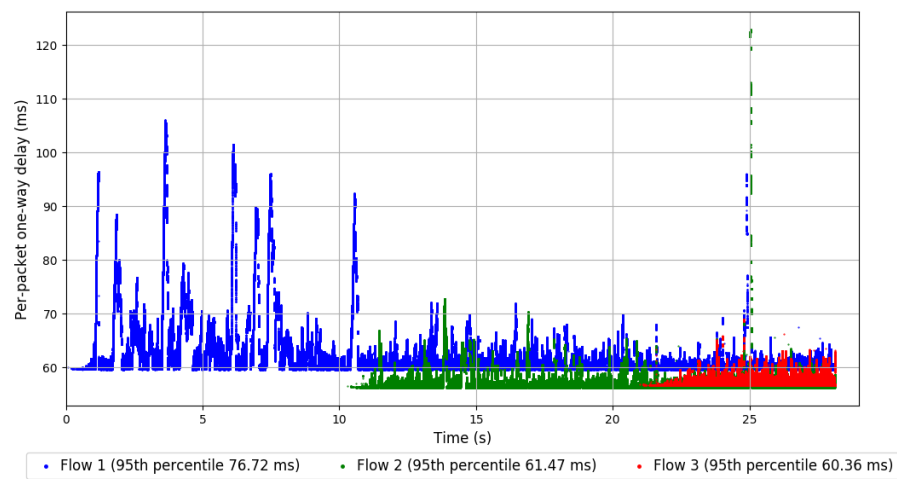
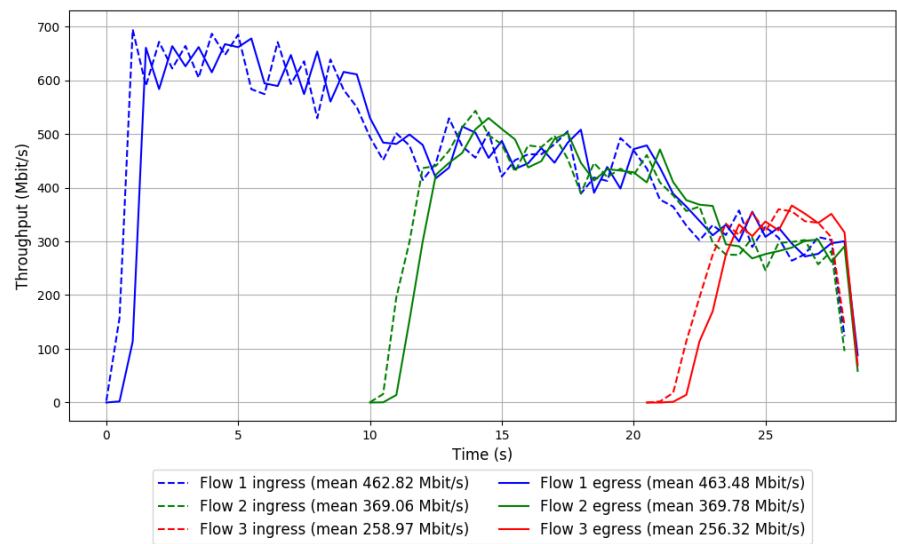


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-19 04:53:39  
End at: 2019-09-19 04:54:09  
Local clock offset: -0.474 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-09-19 08:53:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 763.51 Mbit/s  
95th percentile per-packet one-way delay: 71.247 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 463.48 Mbit/s  
95th percentile per-packet one-way delay: 76.724 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 369.78 Mbit/s  
95th percentile per-packet one-way delay: 61.468 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 256.32 Mbit/s  
95th percentile per-packet one-way delay: 60.364 ms  
Loss rate: 2.60%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-19 05:35:02

End at: 2019-09-19 05:35:32

Local clock offset: -0.081 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-09-19 09:02:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 766.34 Mbit/s

95th percentile per-packet one-way delay: 69.054 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 450.52 Mbit/s

95th percentile per-packet one-way delay: 69.620 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 383.94 Mbit/s

95th percentile per-packet one-way delay: 70.812 ms

Loss rate: 0.44%

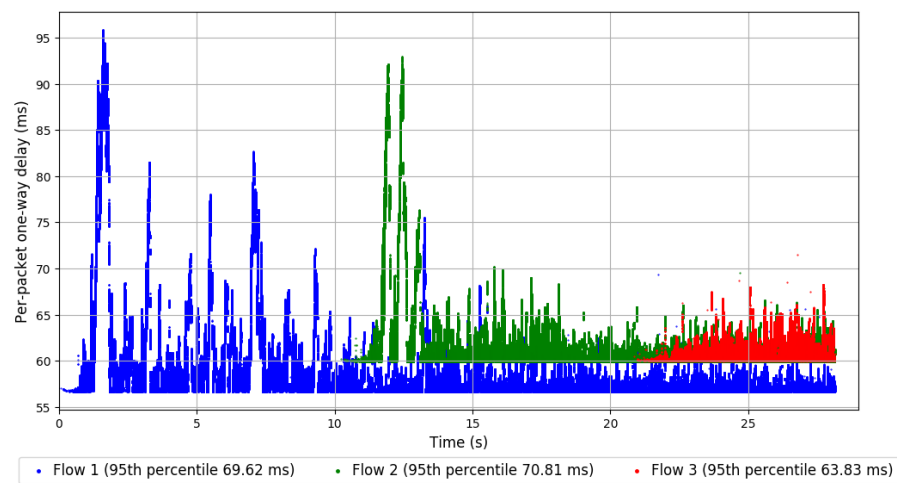
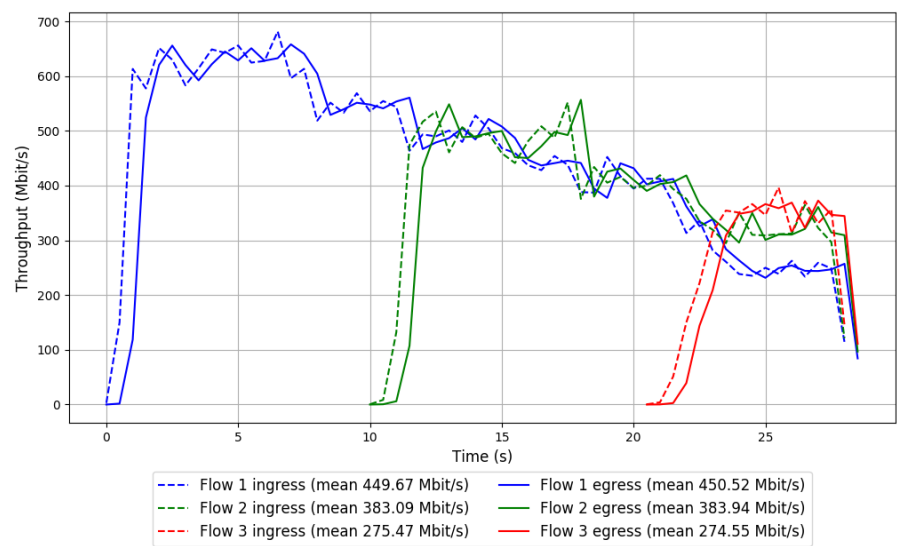
-- Flow 3:

Average throughput: 274.55 Mbit/s

95th percentile per-packet one-way delay: 63.826 ms

Loss rate: 1.92%

Run 3: Report of Indigo-MusesC3 — Data Link

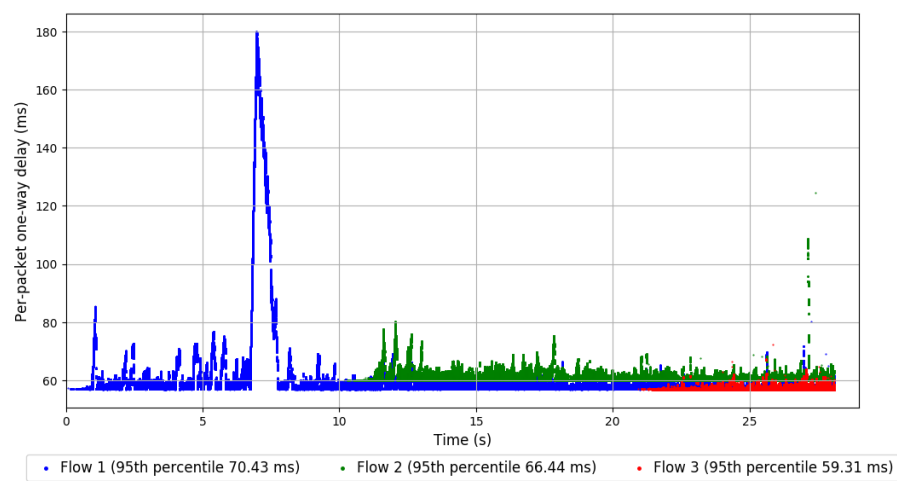
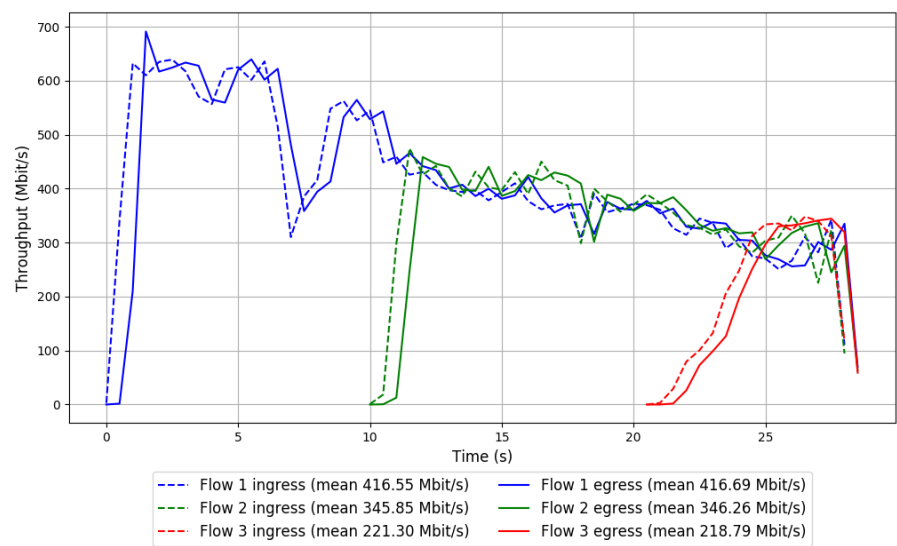


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-19 06:16:04  
End at: 2019-09-19 06:16:34  
Local clock offset: -0.273 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-09-19 09:02:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 693.84 Mbit/s  
95th percentile per-packet one-way delay: 67.820 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 416.69 Mbit/s  
95th percentile per-packet one-way delay: 70.434 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 346.26 Mbit/s  
95th percentile per-packet one-way delay: 66.445 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 218.79 Mbit/s  
95th percentile per-packet one-way delay: 59.309 ms  
Loss rate: 2.70%

Run 4: Report of Indigo-MusesC3 — Data Link

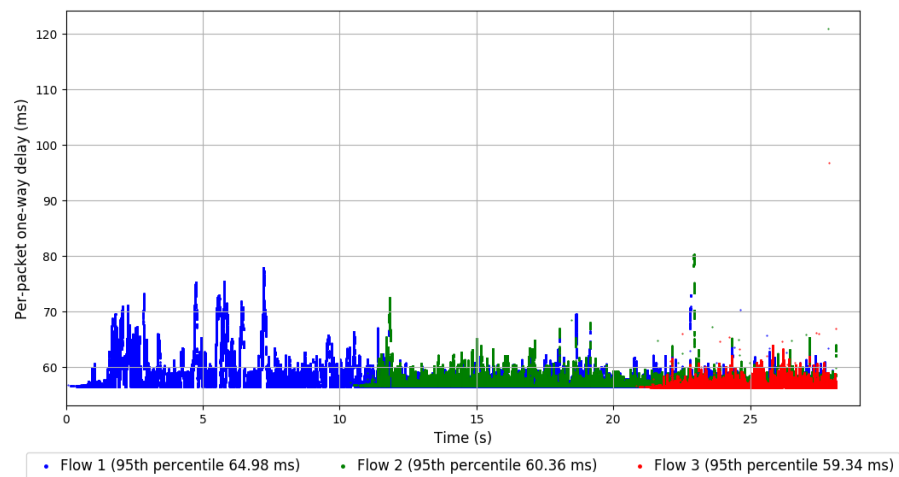
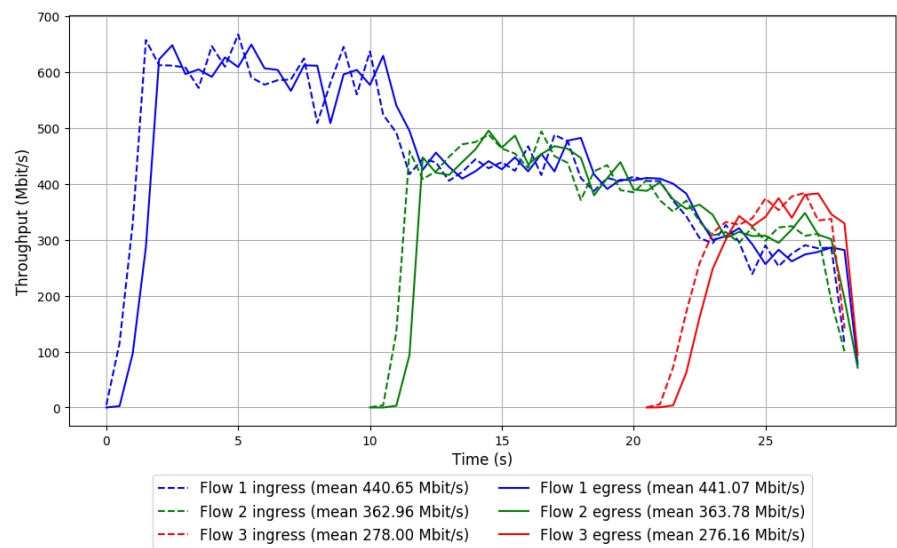


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-19 06:57:14  
End at: 2019-09-19 06:57:44  
Local clock offset: -0.442 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-09-19 09:03:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 742.45 Mbit/s  
95th percentile per-packet one-way delay: 63.043 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 441.07 Mbit/s  
95th percentile per-packet one-way delay: 64.981 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 363.78 Mbit/s  
95th percentile per-packet one-way delay: 60.363 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 276.16 Mbit/s  
95th percentile per-packet one-way delay: 59.335 ms  
Loss rate: 2.14%

Run 5: Report of Indigo-MusesC3 — Data Link

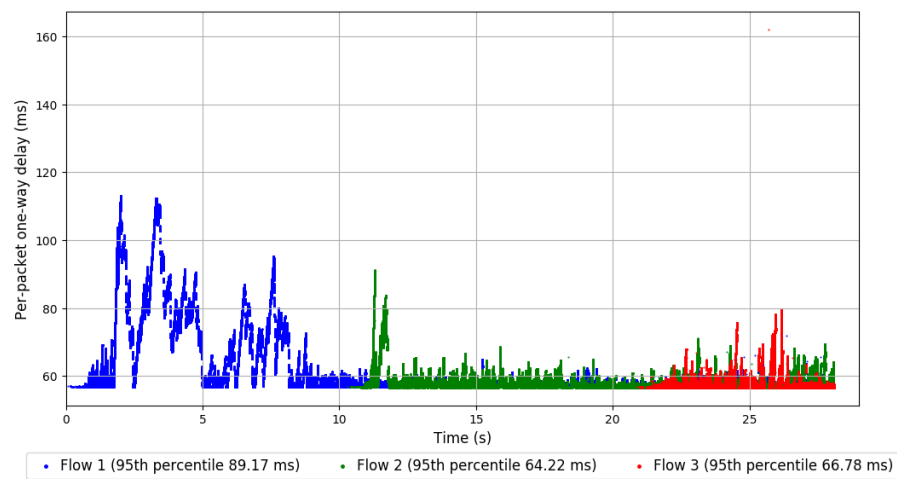
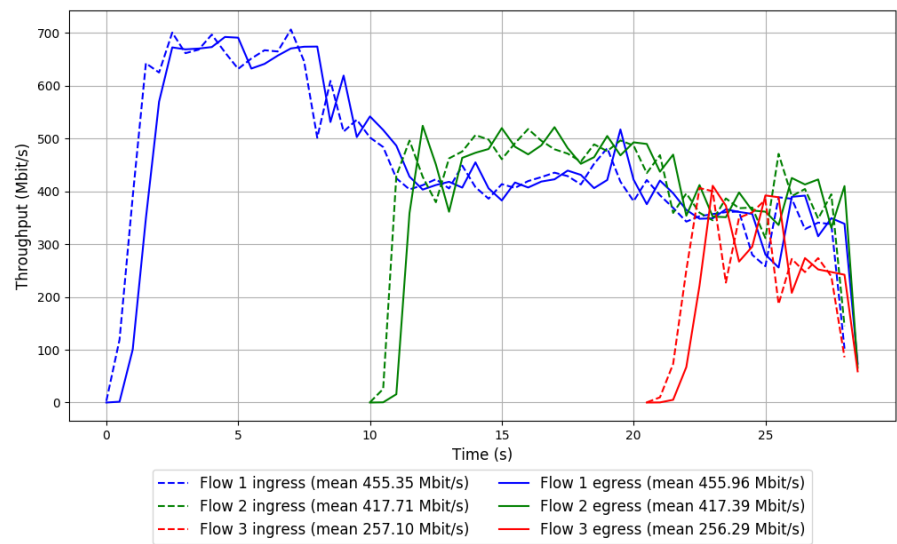


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-19 04:04:15  
End at: 2019-09-19 04:04:45  
Local clock offset: -0.127 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-09-19 09:05:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 786.92 Mbit/s  
95th percentile per-packet one-way delay: 82.964 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 455.96 Mbit/s  
95th percentile per-packet one-way delay: 89.172 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 417.39 Mbit/s  
95th percentile per-packet one-way delay: 64.222 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 256.29 Mbit/s  
95th percentile per-packet one-way delay: 66.782 ms  
Loss rate: 1.69%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-19 04:45:20

End at: 2019-09-19 04:45:50

Local clock offset: 0.331 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2019-09-19 09:05:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 788.70 Mbit/s

95th percentile per-packet one-way delay: 86.793 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 499.15 Mbit/s

95th percentile per-packet one-way delay: 86.575 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 406.47 Mbit/s

95th percentile per-packet one-way delay: 90.683 ms

Loss rate: 0.51%

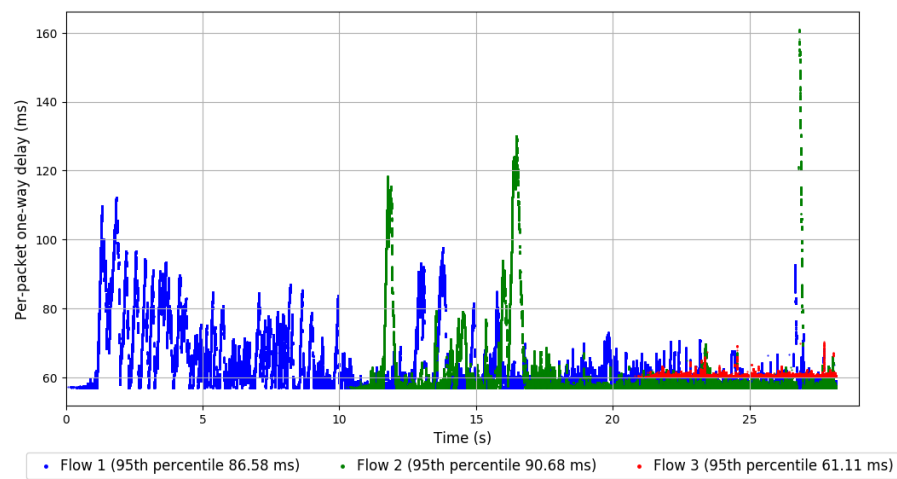
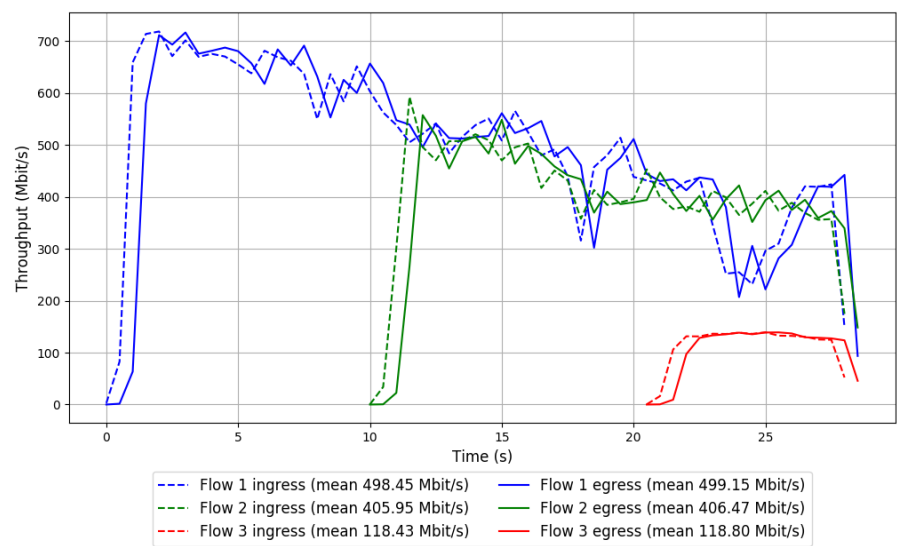
-- Flow 3:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 61.114 ms

Loss rate: 1.25%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-19 05:26:24

End at: 2019-09-19 05:26:54

Local clock offset: 0.169 ms

Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2019-09-19 09:05:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 735.88 Mbit/s

95th percentile per-packet one-way delay: 97.182 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 473.15 Mbit/s

95th percentile per-packet one-way delay: 107.274 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 378.42 Mbit/s

95th percentile per-packet one-way delay: 62.179 ms

Loss rate: 0.72%

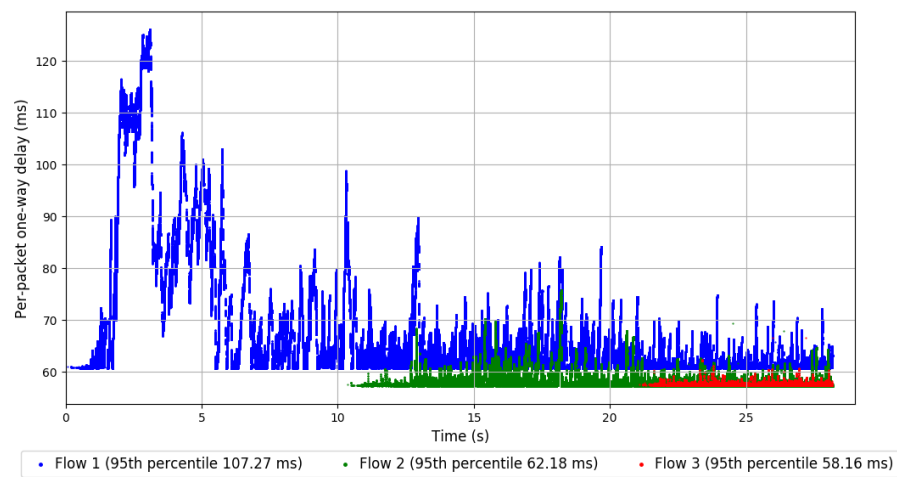
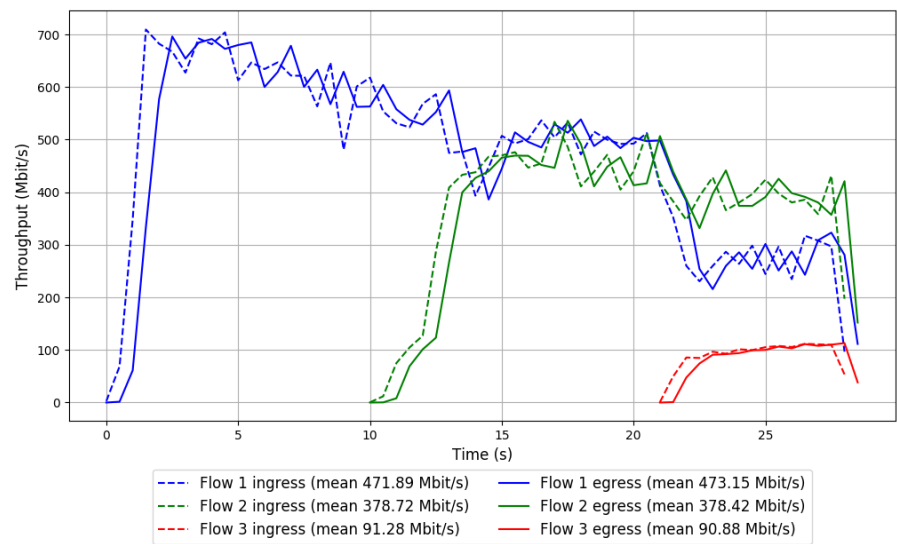
-- Flow 3:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 58.162 ms

Loss rate: 2.06%

Run 3: Report of Indigo-MusesC5 — Data Link

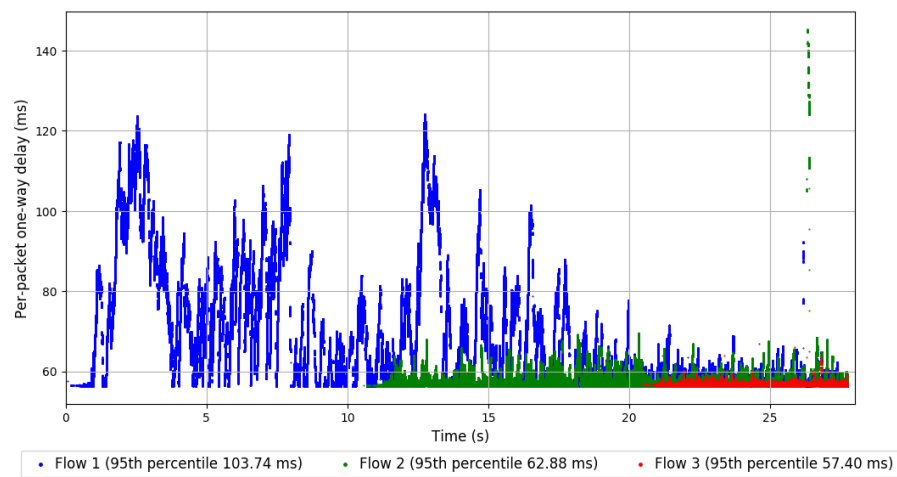
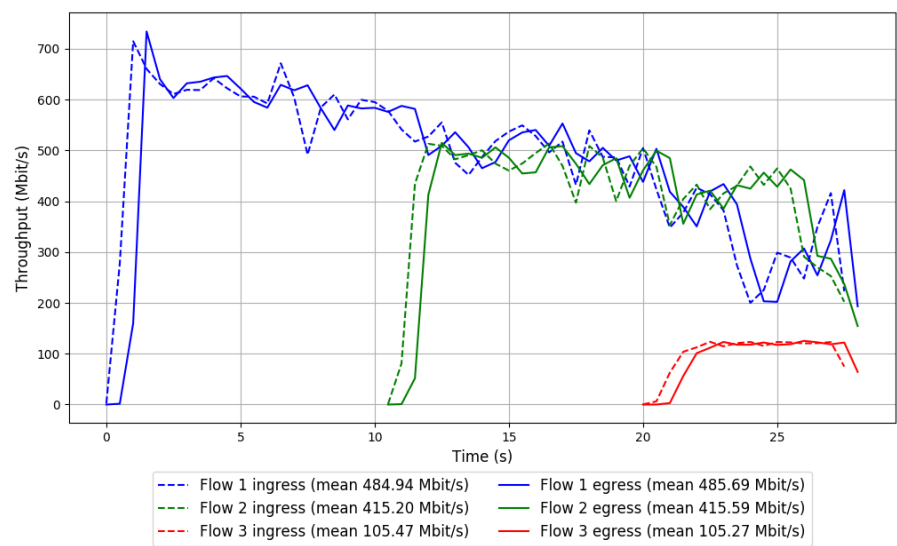


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-19 06:07:36  
End at: 2019-09-19 06:08:06  
Local clock offset: -0.495 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-09-19 09:06:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 771.09 Mbit/s  
95th percentile per-packet one-way delay: 98.911 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 485.69 Mbit/s  
95th percentile per-packet one-way delay: 103.741 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 415.59 Mbit/s  
95th percentile per-packet one-way delay: 62.881 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 105.27 Mbit/s  
95th percentile per-packet one-way delay: 57.395 ms  
Loss rate: 1.66%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-19 06:48:34

End at: 2019-09-19 06:49:04

Local clock offset: 0.134 ms

Remote clock offset: 0.629 ms

# Below is generated by plot.py at 2019-09-19 09:07:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 775.83 Mbit/s

95th percentile per-packet one-way delay: 129.790 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 434.41 Mbit/s

95th percentile per-packet one-way delay: 98.730 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 423.65 Mbit/s

95th percentile per-packet one-way delay: 153.143 ms

Loss rate: 0.88%

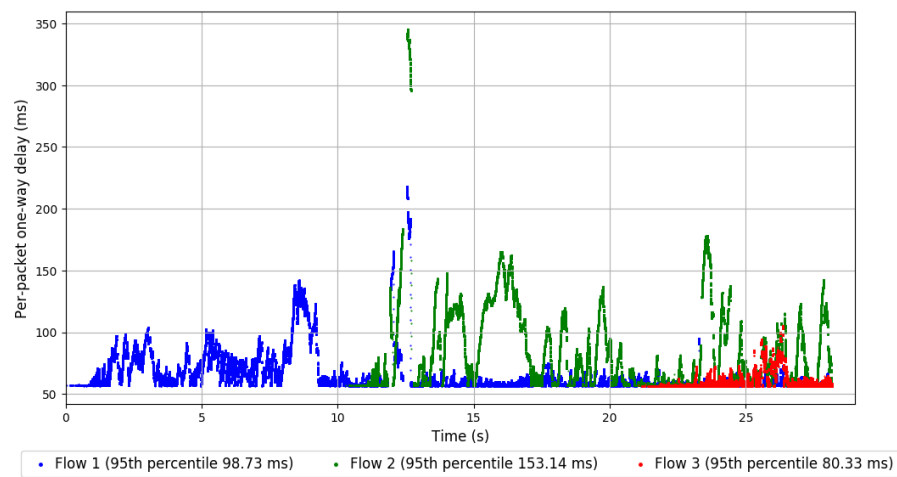
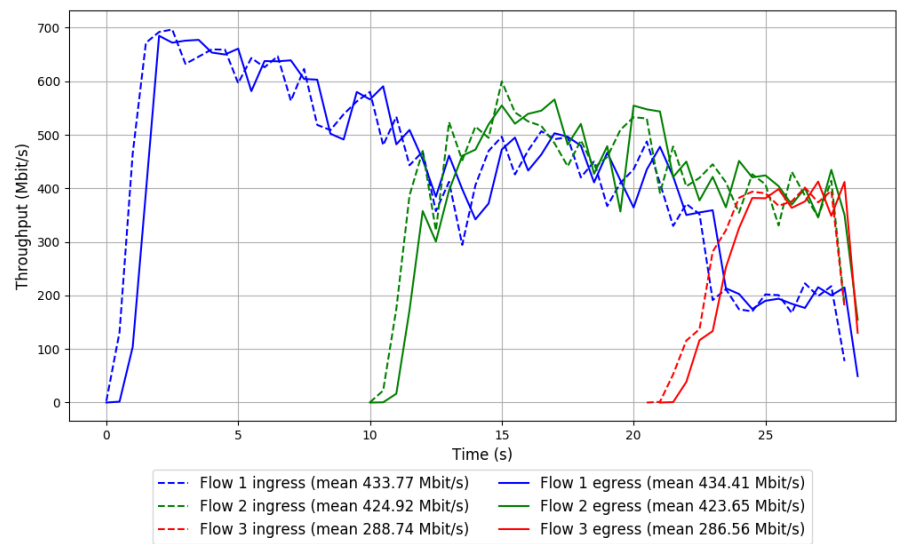
-- Flow 3:

Average throughput: 286.56 Mbit/s

95th percentile per-packet one-way delay: 80.332 ms

Loss rate: 2.31%

Run 5: Report of Indigo-MusesC5 — Data Link



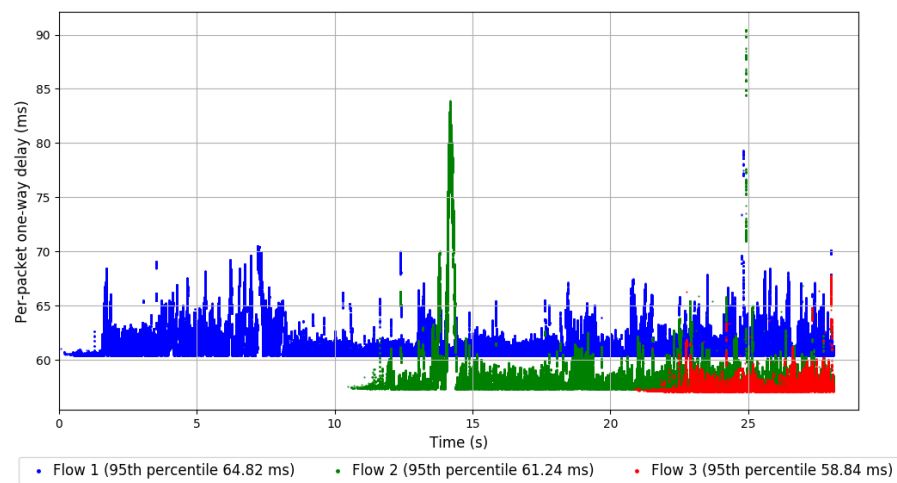
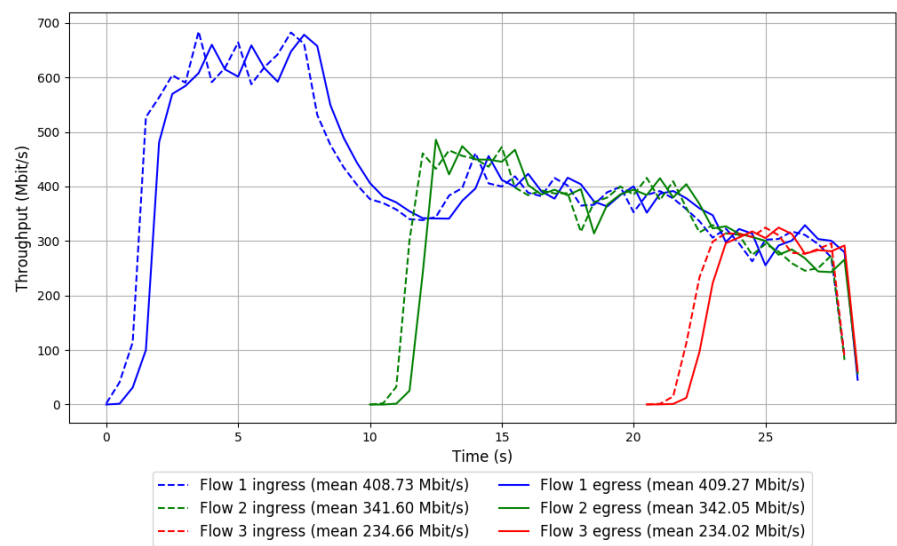


Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-19 04:06:05  
End at: 2019-09-19 04:06:35  
Local clock offset: 0.157 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-09-19 09:14:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 684.43 Mbit/s  
95th percentile per-packet one-way delay: 64.244 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 409.27 Mbit/s  
95th percentile per-packet one-way delay: 64.818 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 342.05 Mbit/s  
95th percentile per-packet one-way delay: 61.244 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 234.02 Mbit/s  
95th percentile per-packet one-way delay: 58.835 ms  
Loss rate: 1.83%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-19 04:47:10

End at: 2019-09-19 04:47:40

Local clock offset: 0.361 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-09-19 09:15:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 713.54 Mbit/s

95th percentile per-packet one-way delay: 84.748 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 429.87 Mbit/s

95th percentile per-packet one-way delay: 90.334 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 360.28 Mbit/s

95th percentile per-packet one-way delay: 68.455 ms

Loss rate: 0.53%

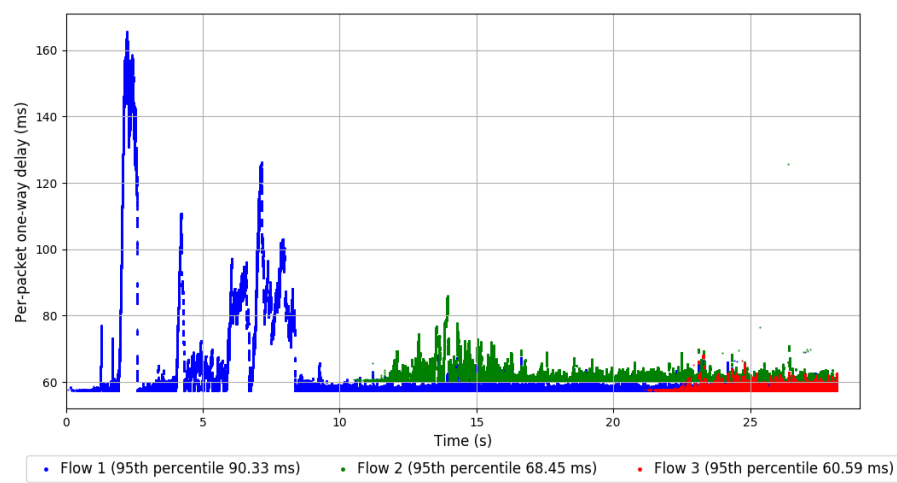
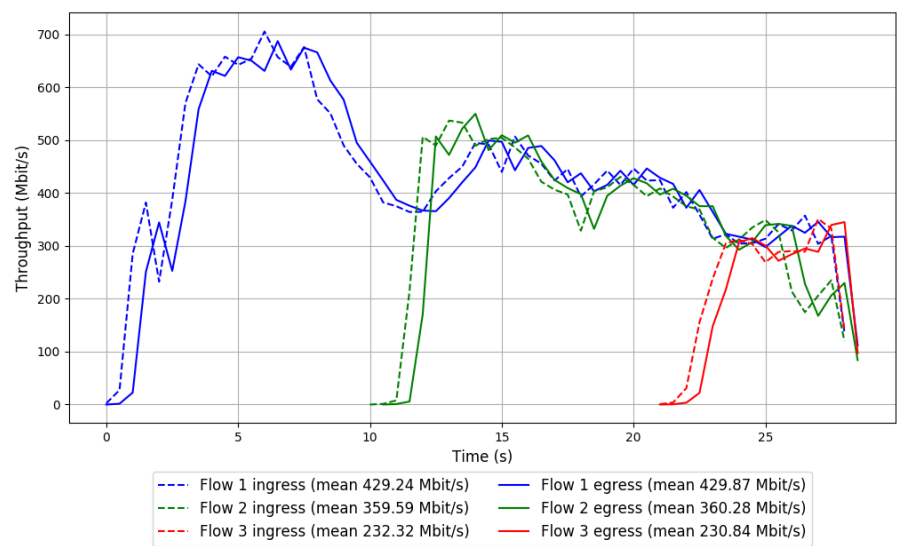
-- Flow 3:

Average throughput: 230.84 Mbit/s

95th percentile per-packet one-way delay: 60.592 ms

Loss rate: 2.24%

Run 2: Report of Indigo-MusesD — Data Link

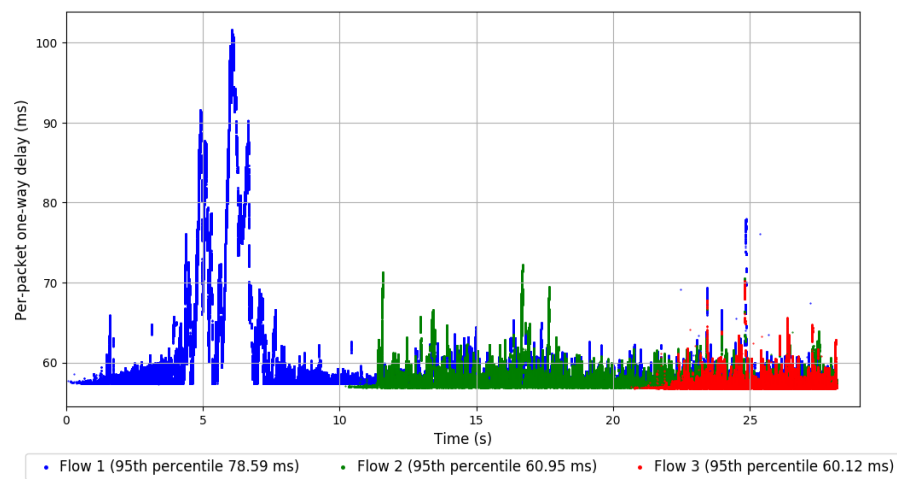
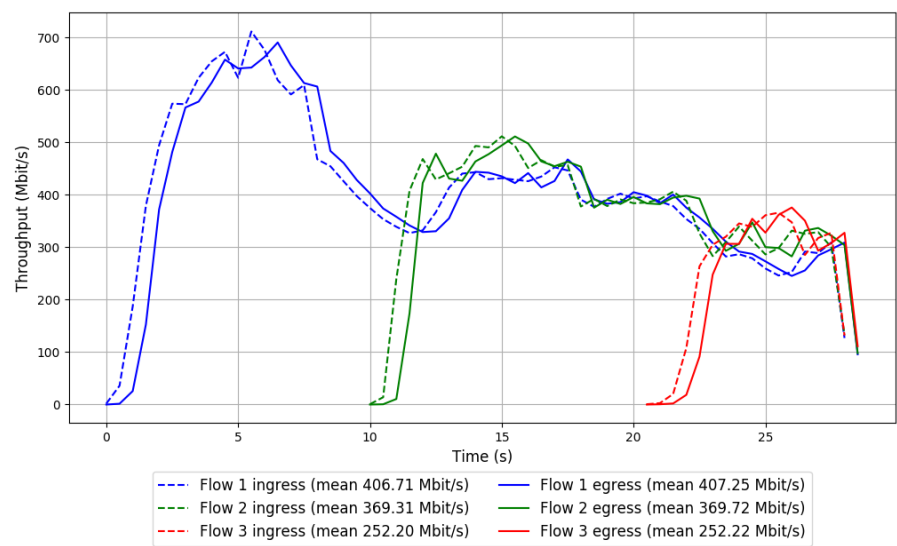


Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-19 05:28:12  
End at: 2019-09-19 05:28:42  
Local clock offset: -0.085 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2019-09-19 09:16:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 710.65 Mbit/s  
95th percentile per-packet one-way delay: 70.164 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 407.25 Mbit/s  
95th percentile per-packet one-way delay: 78.587 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 369.72 Mbit/s  
95th percentile per-packet one-way delay: 60.954 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 252.22 Mbit/s  
95th percentile per-packet one-way delay: 60.124 ms  
Loss rate: 1.48%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-19 06:09:25

End at: 2019-09-19 06:09:55

Local clock offset: -0.138 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-09-19 09:17:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 690.71 Mbit/s

95th percentile per-packet one-way delay: 70.182 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 401.68 Mbit/s

95th percentile per-packet one-way delay: 80.153 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 355.47 Mbit/s

95th percentile per-packet one-way delay: 60.343 ms

Loss rate: 0.58%

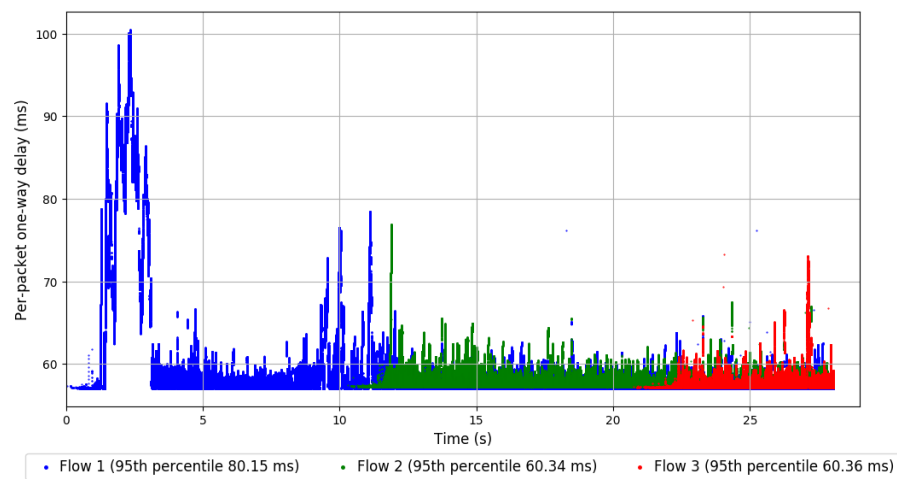
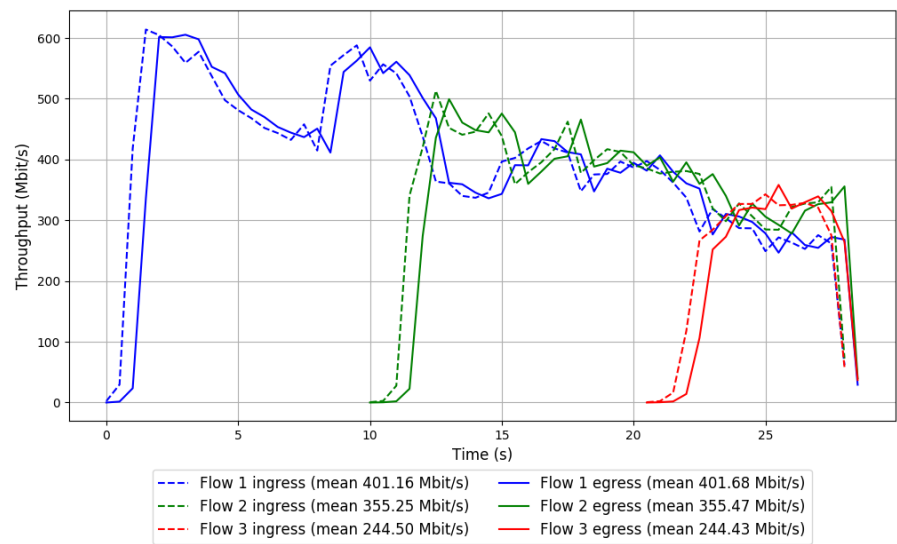
-- Flow 3:

Average throughput: 244.43 Mbit/s

95th percentile per-packet one-way delay: 60.361 ms

Loss rate: 1.59%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-19 06:50:25

End at: 2019-09-19 06:50:55

Local clock offset: -0.324 ms

Remote clock offset: 0.499 ms

# Below is generated by plot.py at 2019-09-19 09:18:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 700.17 Mbit/s

95th percentile per-packet one-way delay: 74.683 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 394.63 Mbit/s

95th percentile per-packet one-way delay: 73.805 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 370.60 Mbit/s

95th percentile per-packet one-way delay: 76.850 ms

Loss rate: 0.58%

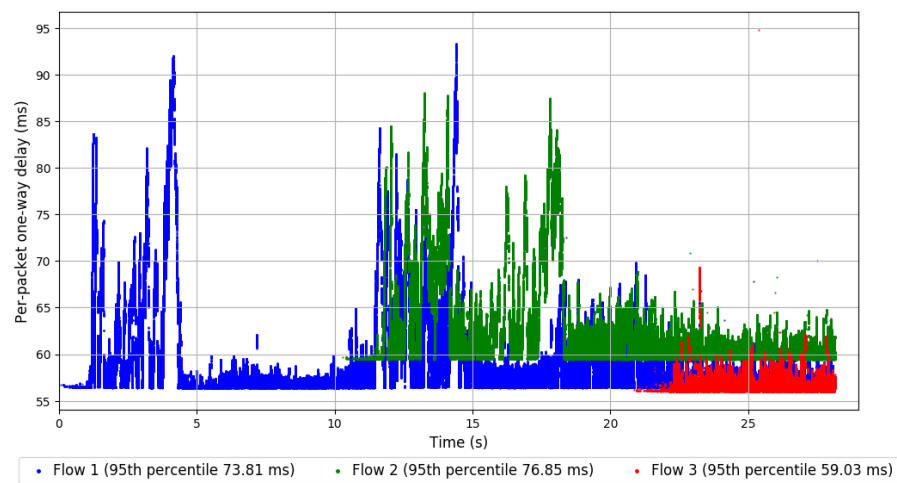
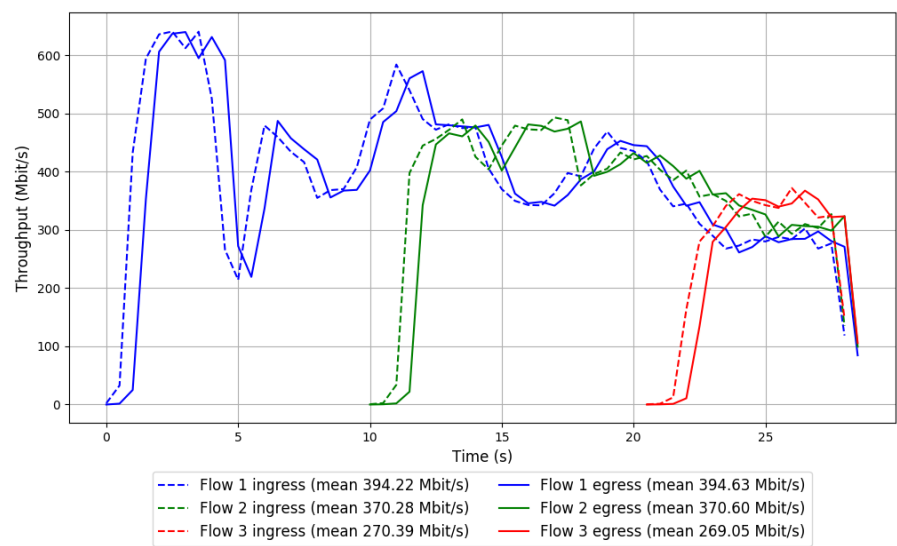
-- Flow 3:

Average throughput: 269.05 Mbit/s

95th percentile per-packet one-way delay: 59.026 ms

Loss rate: 2.08%

Run 5: Report of Indigo-MusesD — Data Link

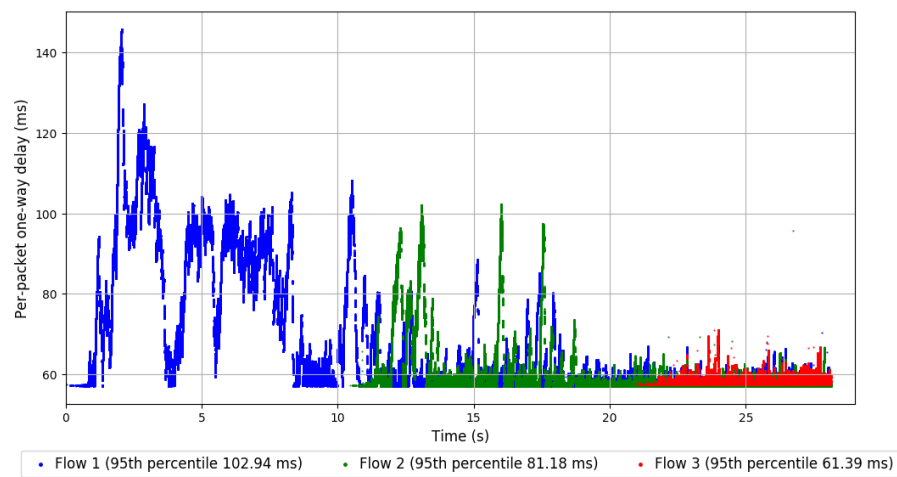
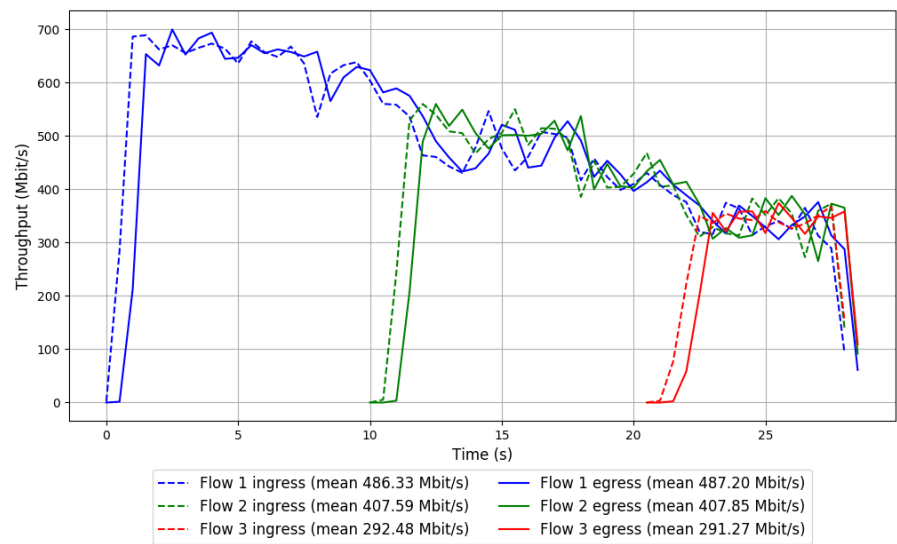


Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-19 04:38:55  
End at: 2019-09-19 04:39:25  
Local clock offset: 0.299 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-09-19 09:20:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 818.44 Mbit/s  
95th percentile per-packet one-way delay: 98.395 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 487.20 Mbit/s  
95th percentile per-packet one-way delay: 102.938 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 407.85 Mbit/s  
95th percentile per-packet one-way delay: 81.177 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 291.27 Mbit/s  
95th percentile per-packet one-way delay: 61.392 ms  
Loss rate: 2.09%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-19 05:19:53

End at: 2019-09-19 05:20:23

Local clock offset: -0.101 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-09-19 09:20:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 776.33 Mbit/s

95th percentile per-packet one-way delay: 114.514 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 492.69 Mbit/s

95th percentile per-packet one-way delay: 121.128 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 401.75 Mbit/s

95th percentile per-packet one-way delay: 63.330 ms

Loss rate: 0.67%

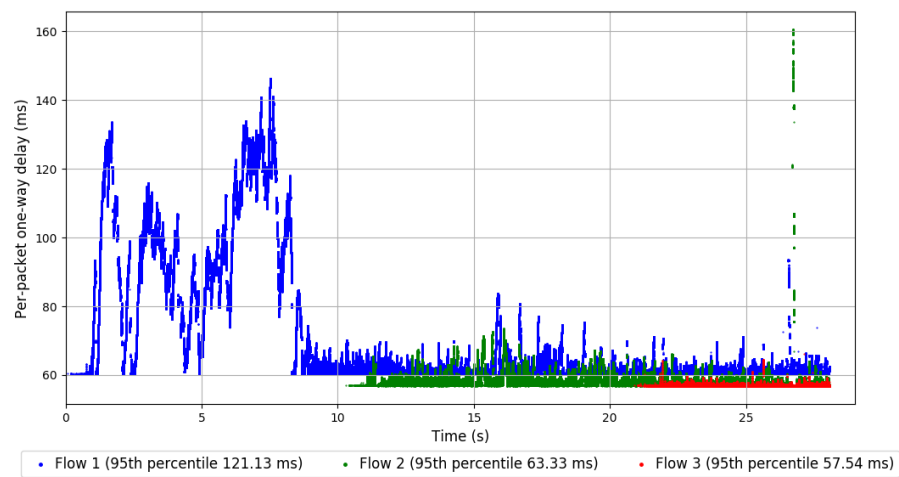
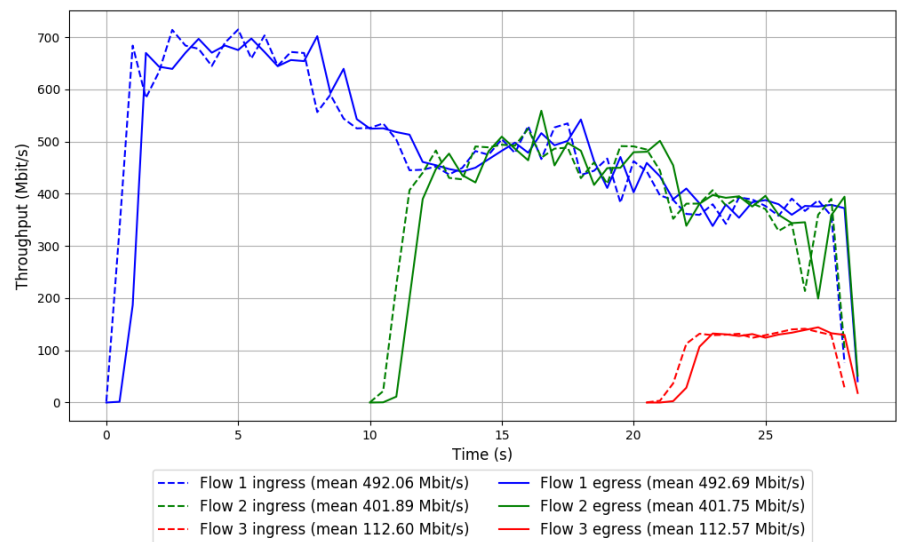
-- Flow 3:

Average throughput: 112.57 Mbit/s

95th percentile per-packet one-way delay: 57.540 ms

Loss rate: 1.59%

Run 2: Report of Indigo-MusesT — Data Link

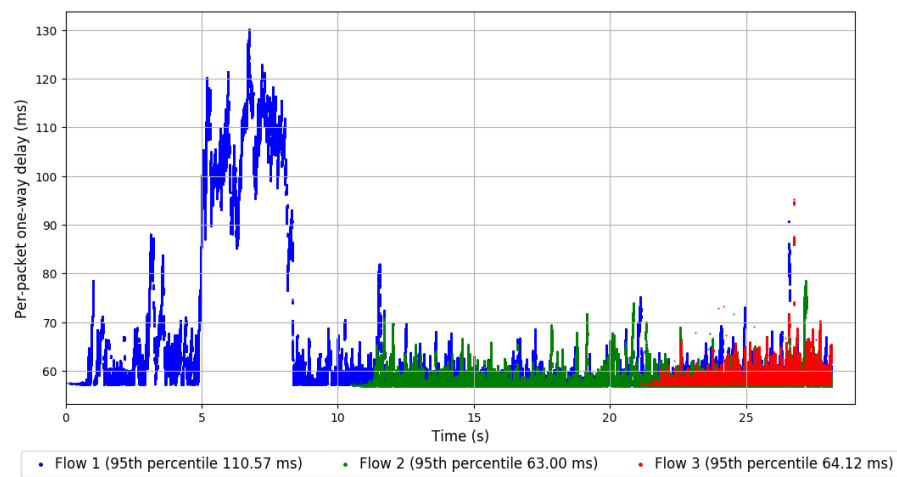
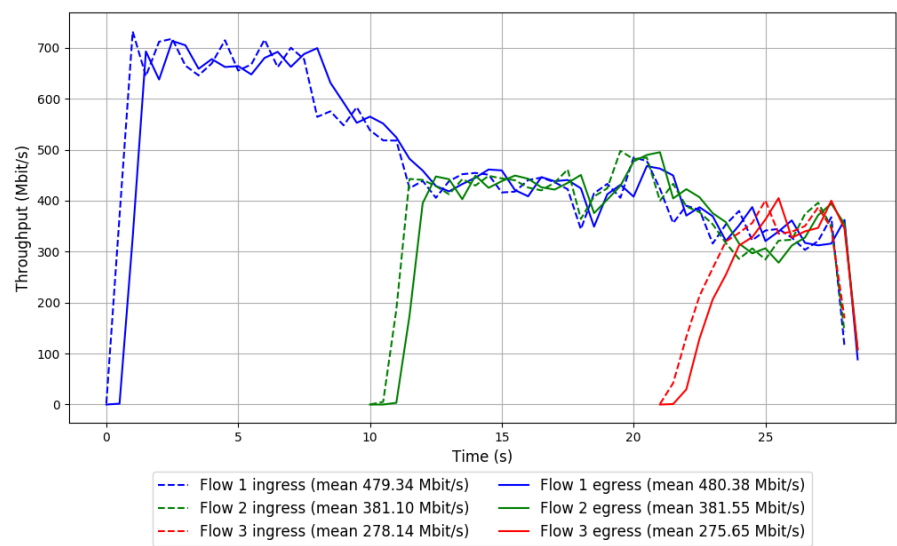


Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-19 06:01:08  
End at: 2019-09-19 06:01:38  
Local clock offset: -0.074 ms  
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2019-09-19 09:21:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 790.11 Mbit/s  
95th percentile per-packet one-way delay: 105.860 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 480.38 Mbit/s  
95th percentile per-packet one-way delay: 110.568 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 381.55 Mbit/s  
95th percentile per-packet one-way delay: 63.000 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 275.65 Mbit/s  
95th percentile per-packet one-way delay: 64.124 ms  
Loss rate: 2.49%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-09-19 06:42:09

End at: 2019-09-19 06:42:39

Local clock offset: -0.165 ms

Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-09-19 09:27:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 789.91 Mbit/s

95th percentile per-packet one-way delay: 114.431 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 474.87 Mbit/s

95th percentile per-packet one-way delay: 118.198 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 383.09 Mbit/s

95th percentile per-packet one-way delay: 60.549 ms

Loss rate: 0.45%

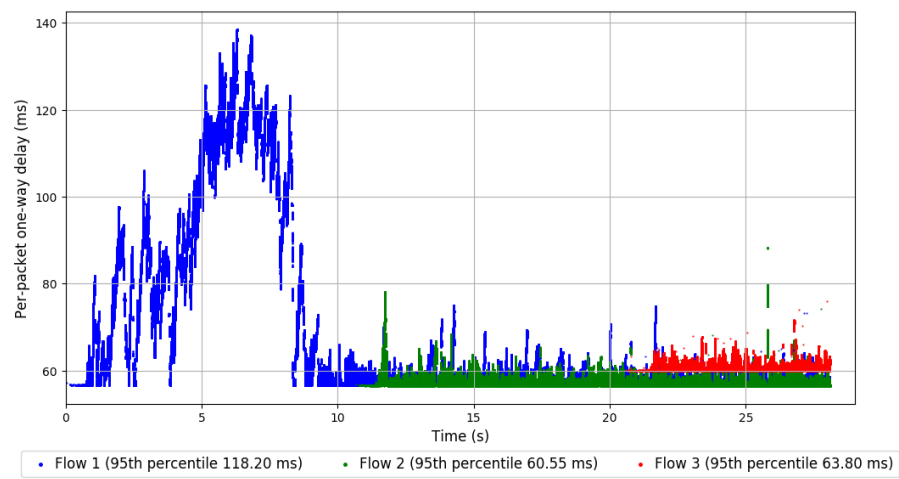
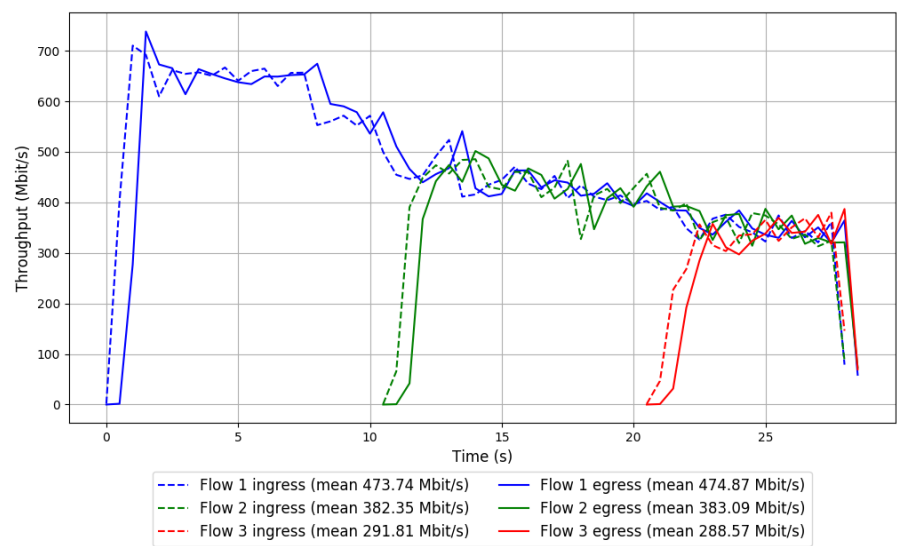
-- Flow 3:

Average throughput: 288.57 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 2.64%

Run 4: Report of Indigo-MusesT — Data Link

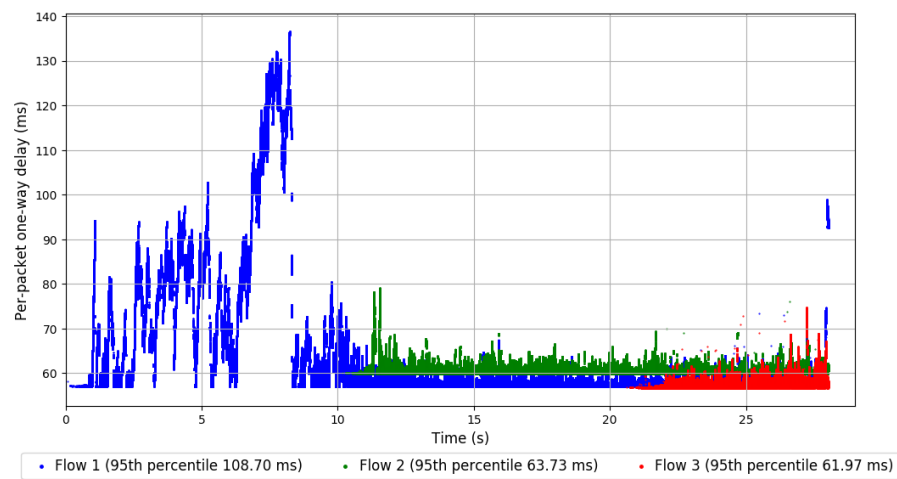
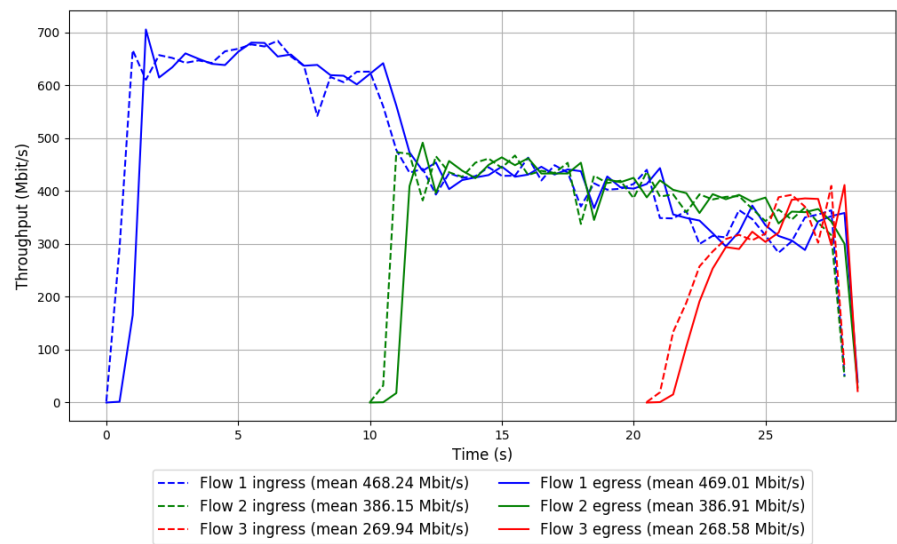


Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-19 07:23:19  
End at: 2019-09-19 07:23:49  
Local clock offset: -0.332 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-09-19 09:29:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 787.12 Mbit/s  
95th percentile per-packet one-way delay: 92.327 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 469.01 Mbit/s  
95th percentile per-packet one-way delay: 108.700 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 386.91 Mbit/s  
95th percentile per-packet one-way delay: 63.733 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 268.58 Mbit/s  
95th percentile per-packet one-way delay: 61.973 ms  
Loss rate: 2.02%

Run 5: Report of Indigo-MusesT — Data Link

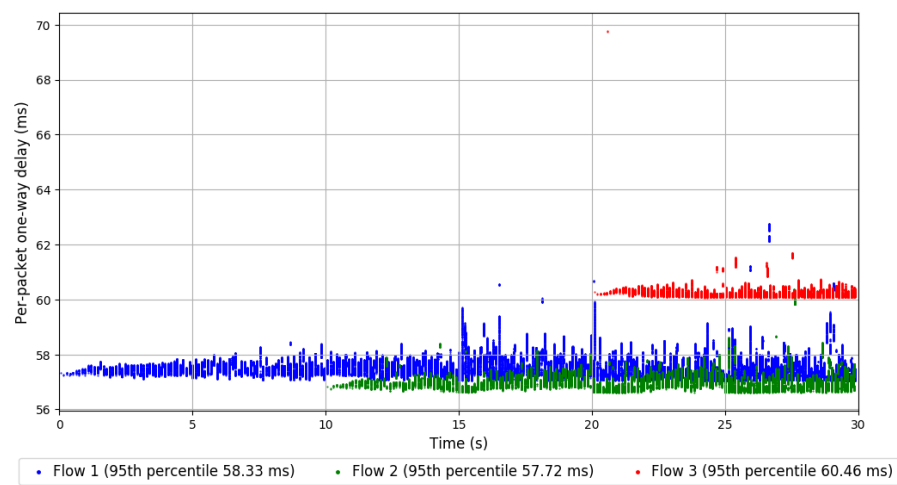
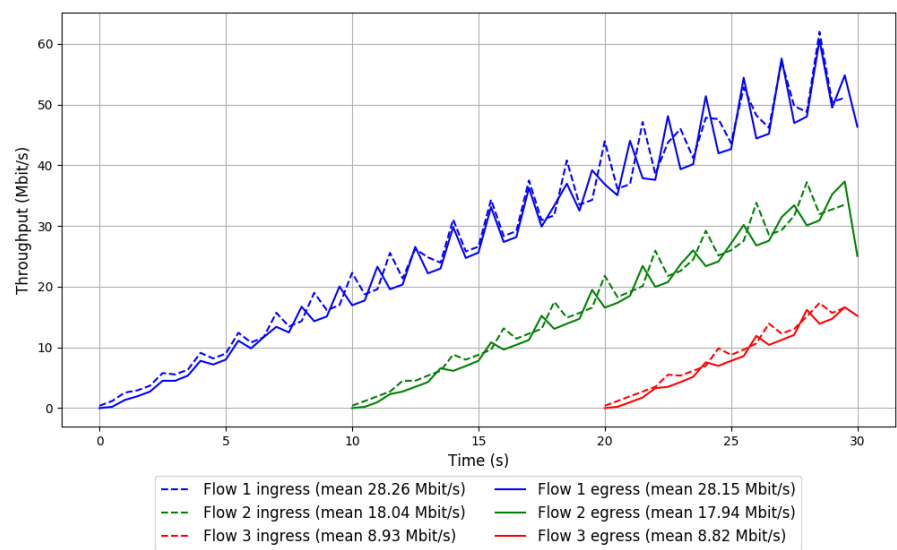


```
Run 1: Statistics of LEDBAT

Start at: 2019-09-19 04:18:13
End at: 2019-09-19 04:18:43
Local clock offset: -0.098 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-09-19 09:29:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 60.151 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 58.327 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 17.94 Mbit/s
95th percentile per-packet one-way delay: 57.717 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 8.82 Mbit/s
95th percentile per-packet one-way delay: 60.462 ms
Loss rate: 2.39%
```

Run 1: Report of LEDBAT — Data Link

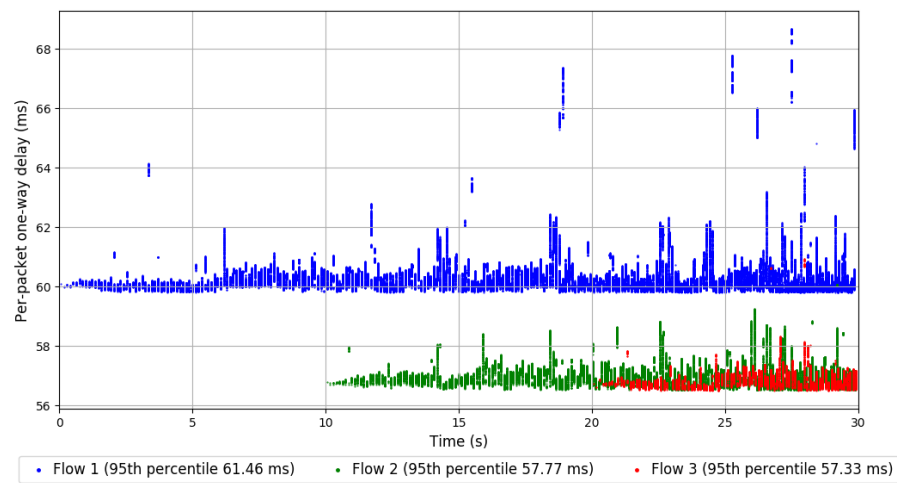
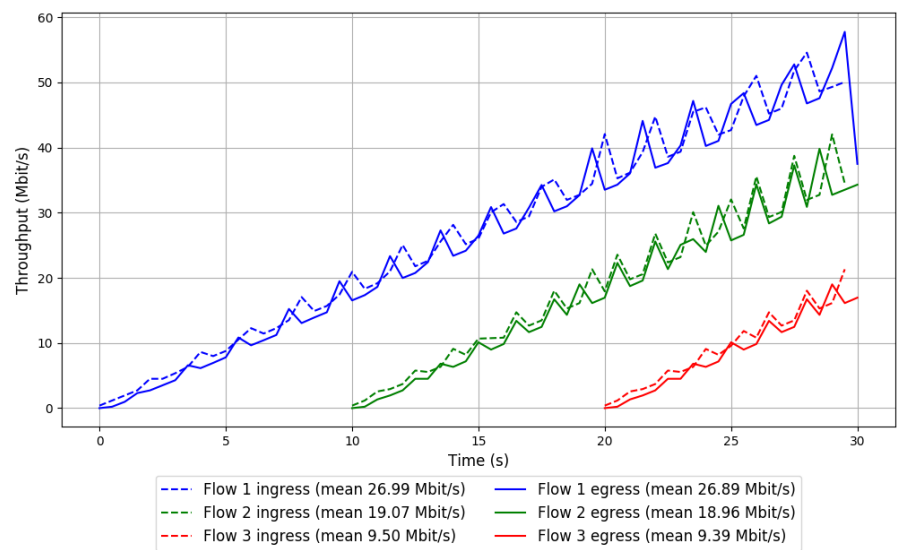


Run 2: Statistics of LEDBAT

Start at: 2019-09-19 04:59:07  
End at: 2019-09-19 04:59:37  
Local clock offset: -0.479 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-09-19 09:29:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.52 Mbit/s  
95th percentile per-packet one-way delay: 60.963 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 26.89 Mbit/s  
95th percentile per-packet one-way delay: 61.462 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 18.96 Mbit/s  
95th percentile per-packet one-way delay: 57.771 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 9.39 Mbit/s  
95th percentile per-packet one-way delay: 57.334 ms  
Loss rate: 2.30%

Run 2: Report of LEDBAT — Data Link



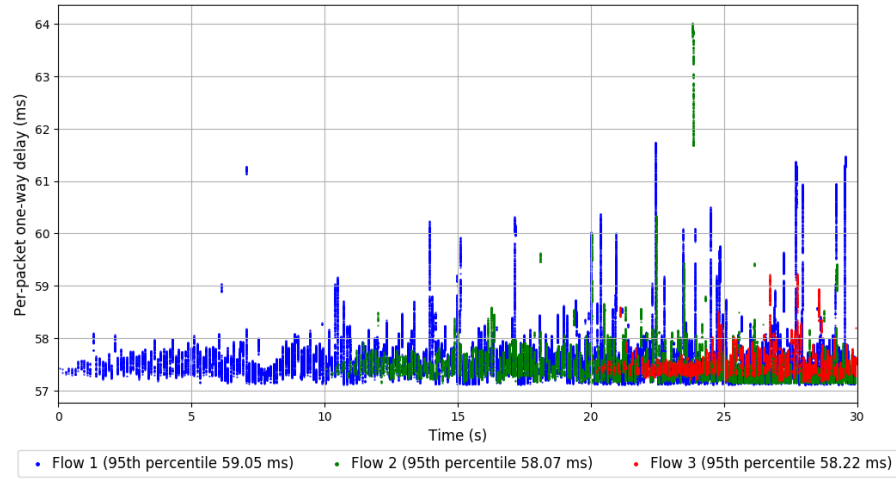
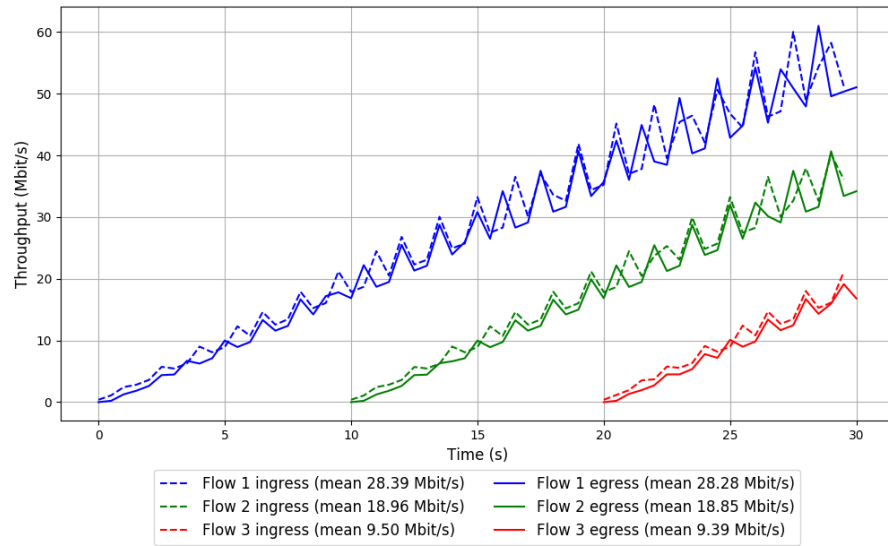


Run 3: Statistics of LEDBAT

Start at: 2019-09-19 05:40:28  
End at: 2019-09-19 05:40:58  
Local clock offset: 0.322 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-09-19 09:29:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.86 Mbit/s  
95th percentile per-packet one-way delay: 58.666 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 28.28 Mbit/s  
95th percentile per-packet one-way delay: 59.047 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 18.85 Mbit/s  
95th percentile per-packet one-way delay: 58.074 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 9.39 Mbit/s  
95th percentile per-packet one-way delay: 58.217 ms  
Loss rate: 2.28%

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

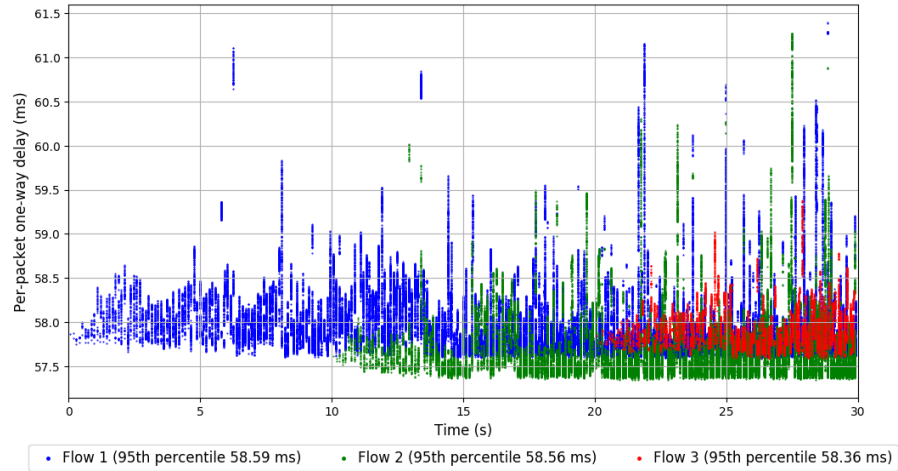
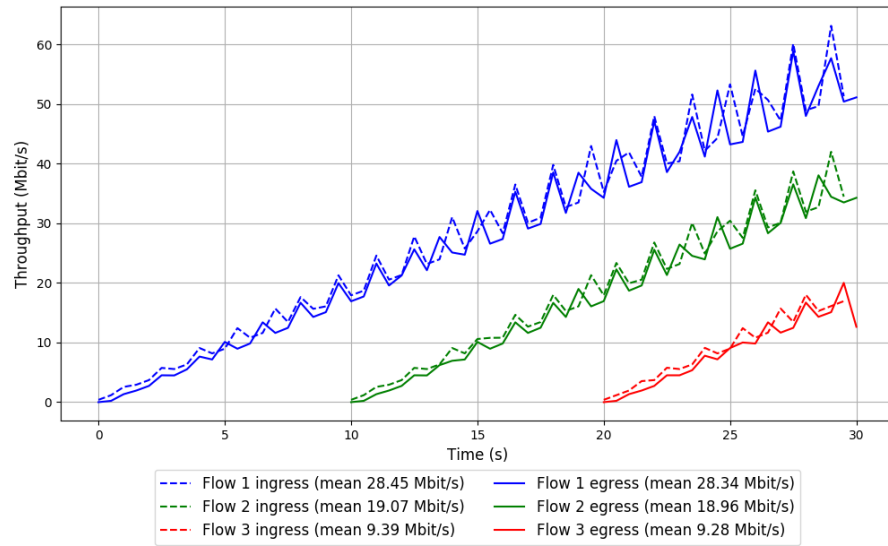


Run 4: Statistics of LEDBAT

Start at: 2019-09-19 06:21:30  
End at: 2019-09-19 06:22:00  
Local clock offset: -0.338 ms  
Remote clock offset: -0.785 ms

# Below is generated by plot.py at 2019-09-19 09:29:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.96 Mbit/s  
95th percentile per-packet one-way delay: 58.562 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 28.34 Mbit/s  
95th percentile per-packet one-way delay: 58.591 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 18.96 Mbit/s  
95th percentile per-packet one-way delay: 58.557 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 9.28 Mbit/s  
95th percentile per-packet one-way delay: 58.358 ms  
Loss rate: 2.33%

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

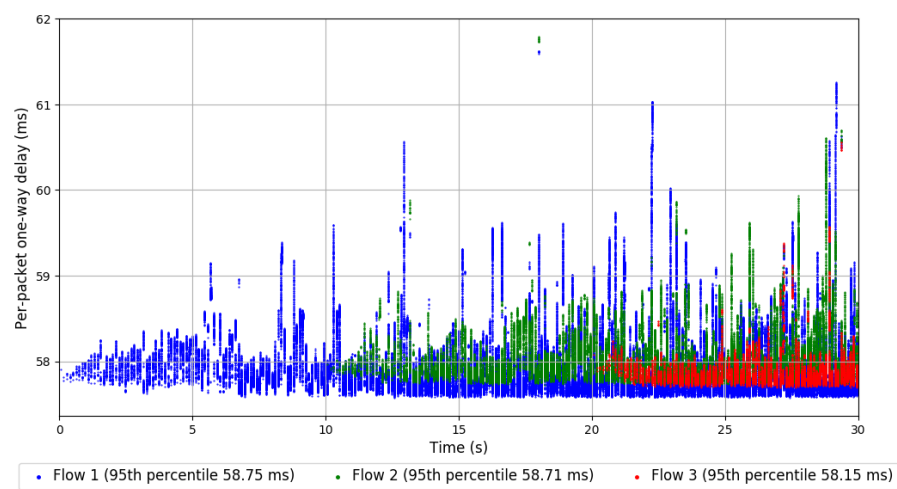
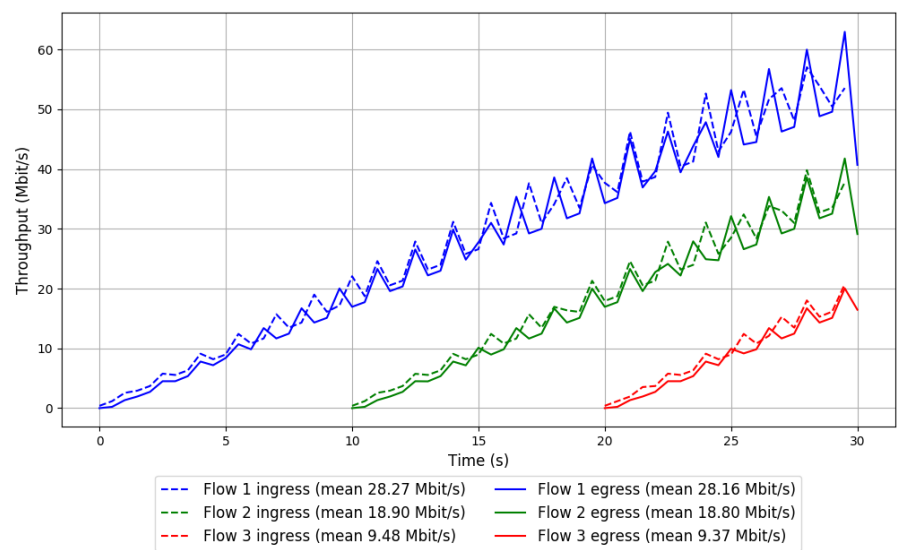


Run 5: Statistics of LEDBAT

Start at: 2019-09-19 07:02:40  
End at: 2019-09-19 07:03:10  
Local clock offset: 0.316 ms  
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-09-19 09:29:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.75 Mbit/s  
95th percentile per-packet one-way delay: 58.712 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 28.16 Mbit/s  
95th percentile per-packet one-way delay: 58.750 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 18.80 Mbit/s  
95th percentile per-packet one-way delay: 58.714 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 9.37 Mbit/s  
95th percentile per-packet one-way delay: 58.151 ms  
Loss rate: 2.27%

Run 5: Report of LEDBAT — Data Link

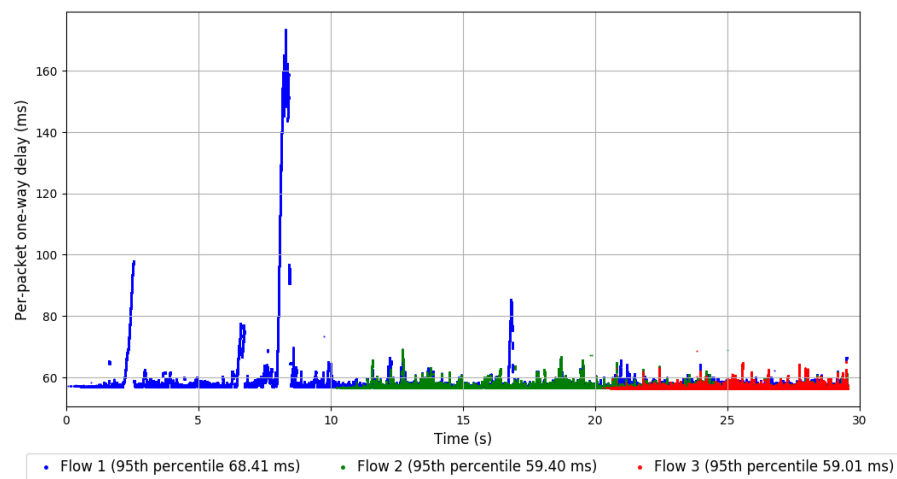
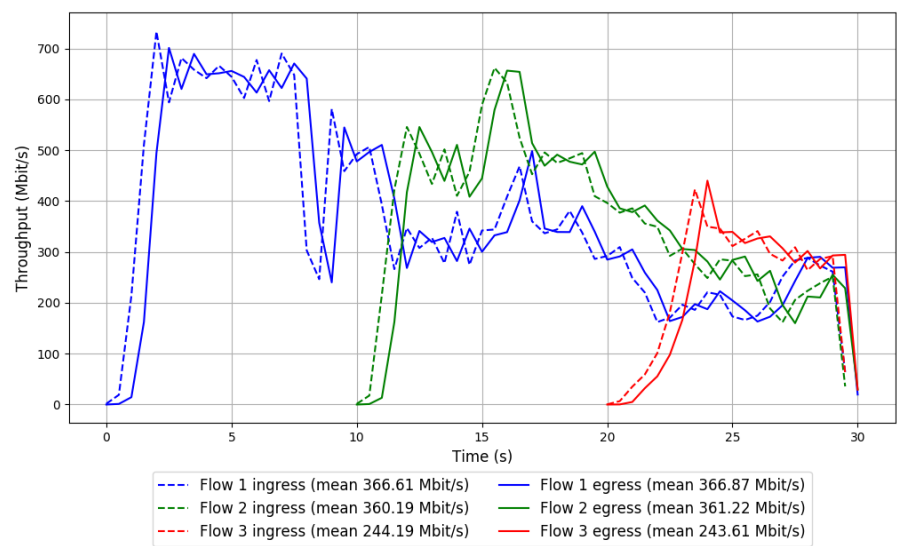


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 04:19:29  
End at: 2019-09-19 04:19:59  
Local clock offset: -0.226 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-09-19 09:31:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 681.38 Mbit/s  
95th percentile per-packet one-way delay: 62.059 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 366.87 Mbit/s  
95th percentile per-packet one-way delay: 68.413 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 361.22 Mbit/s  
95th percentile per-packet one-way delay: 59.395 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 243.61 Mbit/s  
95th percentile per-packet one-way delay: 59.006 ms  
Loss rate: 1.47%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 05:00:25

End at: 2019-09-19 05:00:55

Local clock offset: 0.16 ms

Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2019-09-19 09:32:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 713.18 Mbit/s

95th percentile per-packet one-way delay: 69.554 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 421.39 Mbit/s

95th percentile per-packet one-way delay: 77.710 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 345.42 Mbit/s

95th percentile per-packet one-way delay: 62.842 ms

Loss rate: 0.62%

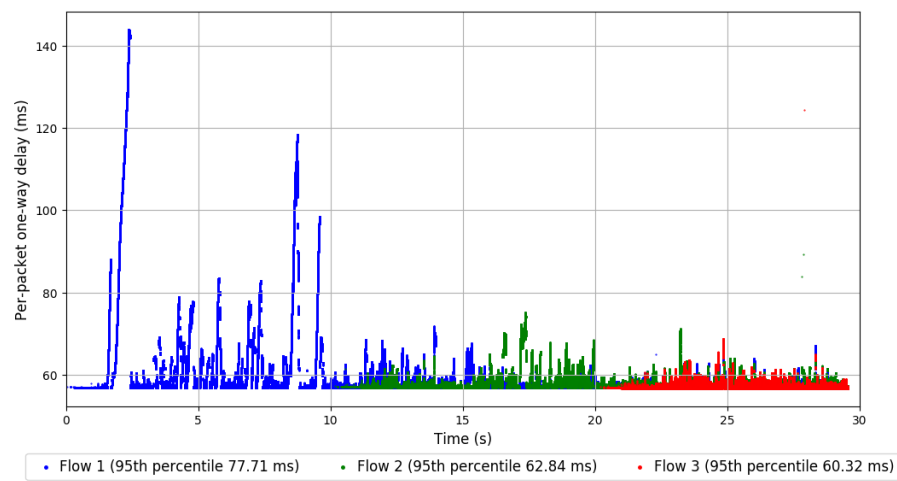
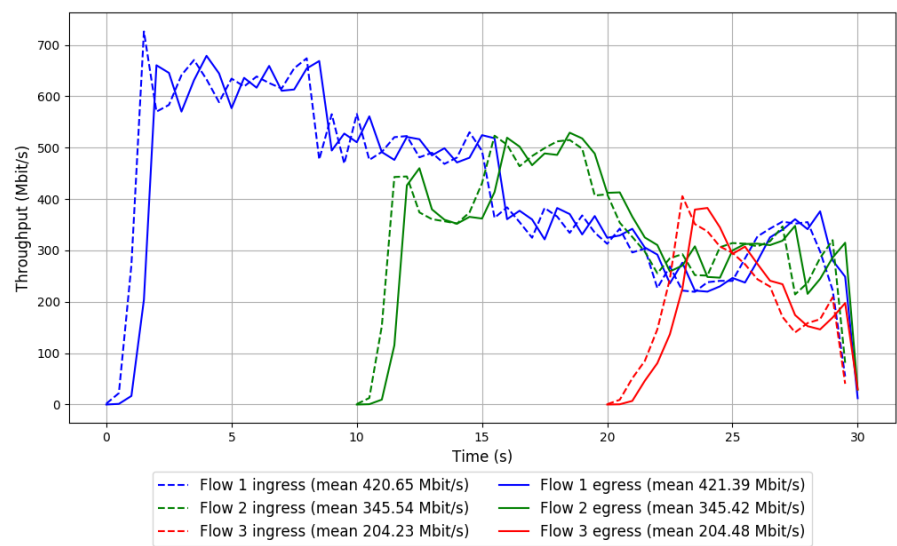
-- Flow 3:

Average throughput: 204.48 Mbit/s

95th percentile per-packet one-way delay: 60.320 ms

Loss rate: 1.09%

Run 2: Report of Muses\_DecisionTree — Data Link

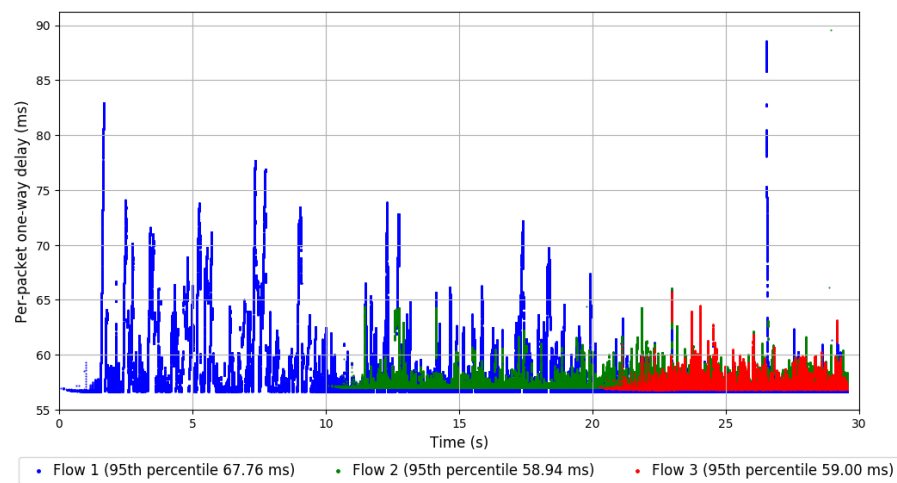
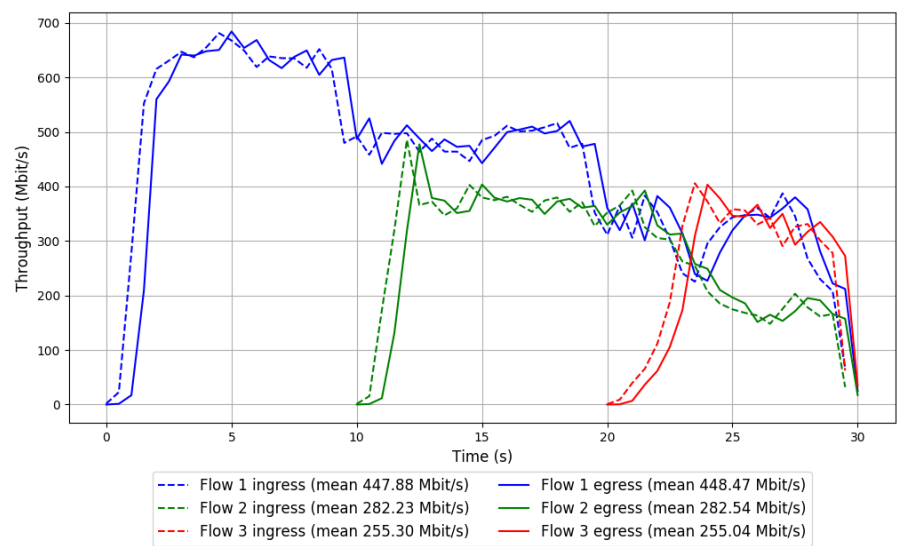


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 05:41:45  
End at: 2019-09-19 05:42:15  
Local clock offset: -0.111 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-09-19 09:33:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 715.54 Mbit/s  
95th percentile per-packet one-way delay: 64.672 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 448.47 Mbit/s  
95th percentile per-packet one-way delay: 67.760 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 282.54 Mbit/s  
95th percentile per-packet one-way delay: 58.936 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 255.04 Mbit/s  
95th percentile per-packet one-way delay: 58.999 ms  
Loss rate: 1.32%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 06:22:47

End at: 2019-09-19 06:23:17

Local clock offset: -0.316 ms

Remote clock offset: 0.657 ms

# Below is generated by plot.py at 2019-09-19 09:33:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 692.73 Mbit/s

95th percentile per-packet one-way delay: 63.170 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 398.81 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 344.51 Mbit/s

95th percentile per-packet one-way delay: 62.642 ms

Loss rate: 0.54%

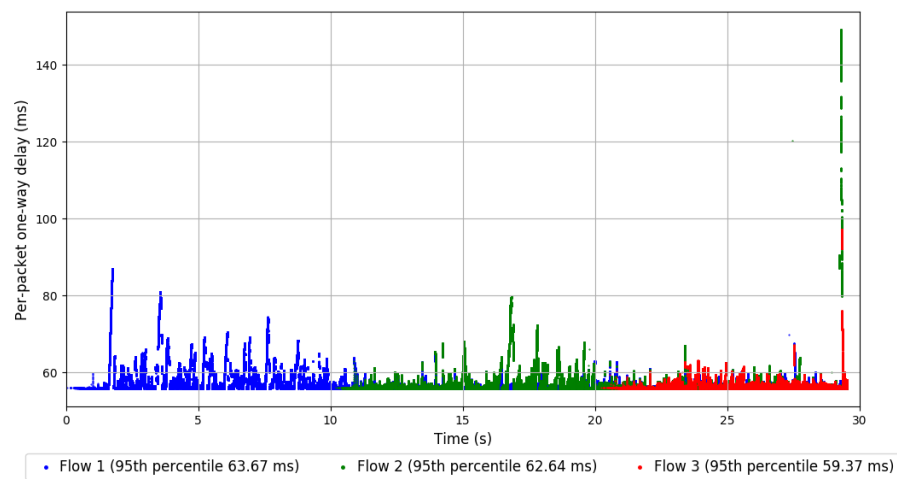
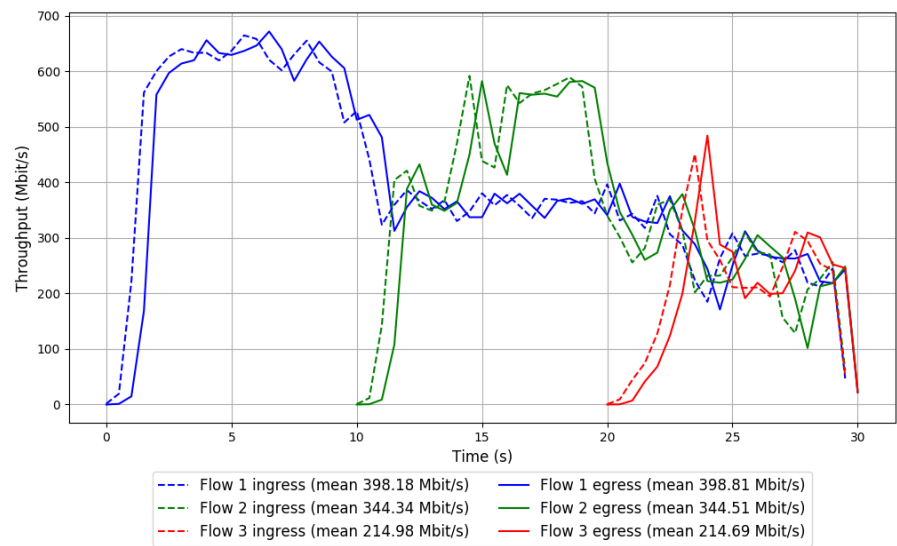
-- Flow 3:

Average throughput: 214.69 Mbit/s

95th percentile per-packet one-way delay: 59.366 ms

Loss rate: 1.35%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 07:03:57

End at: 2019-09-19 07:04:27

Local clock offset: 0.33 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-09-19 09:33:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 700.49 Mbit/s

95th percentile per-packet one-way delay: 69.944 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 409.80 Mbit/s

95th percentile per-packet one-way delay: 72.666 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 327.43 Mbit/s

95th percentile per-packet one-way delay: 62.566 ms

Loss rate: 0.39%

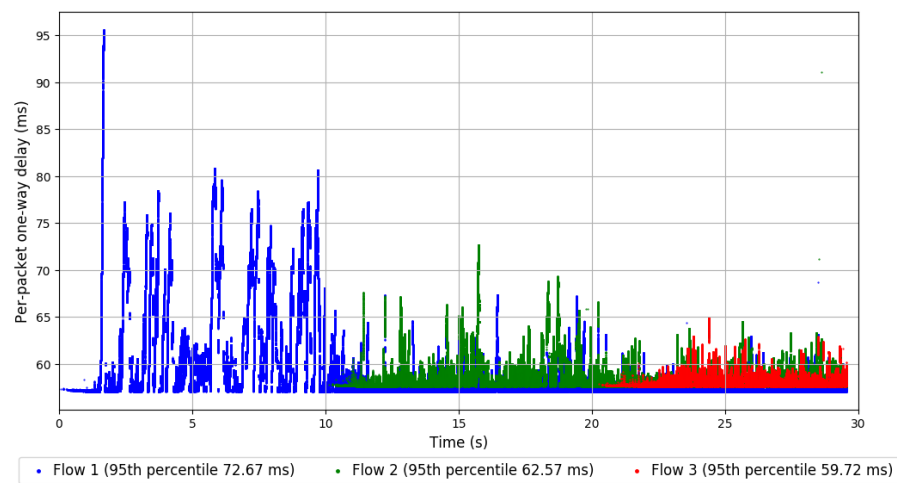
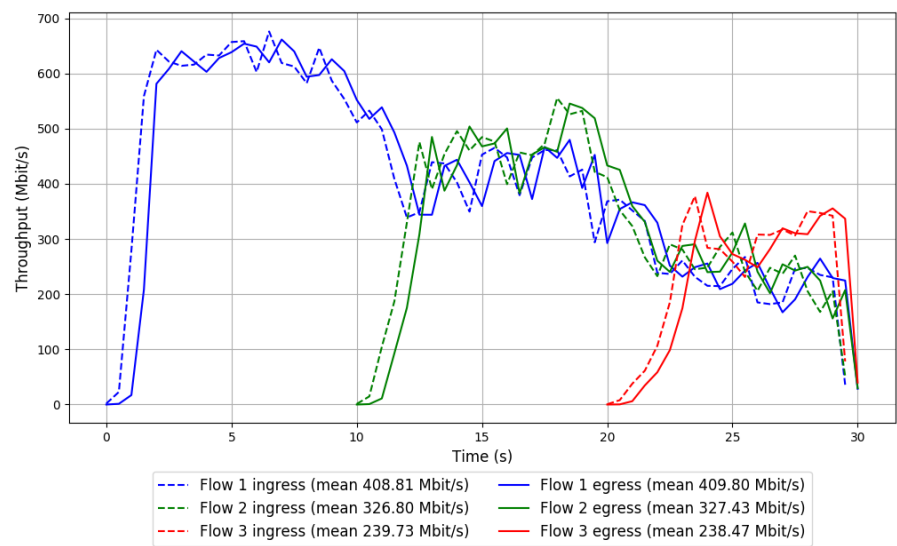
-- Flow 3:

Average throughput: 238.47 Mbit/s

95th percentile per-packet one-way delay: 59.723 ms

Loss rate: 1.74%

Run 5: Report of Muses\_DecisionTree — Data Link



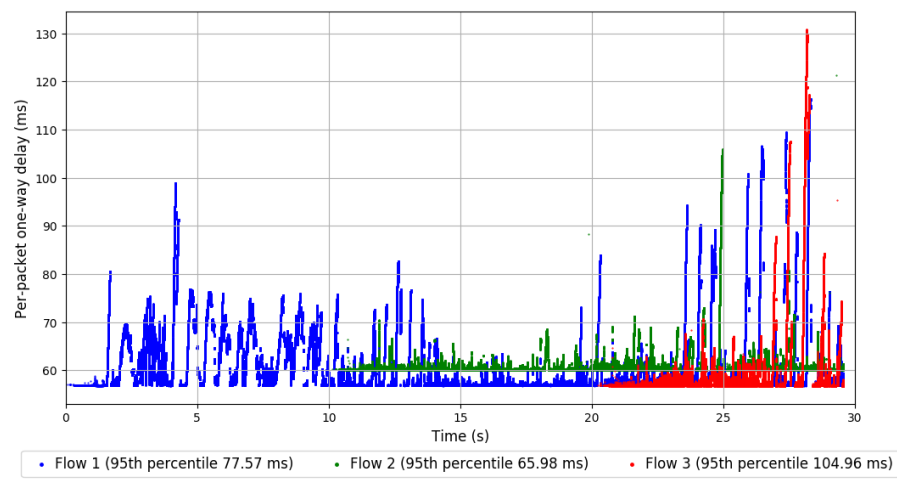
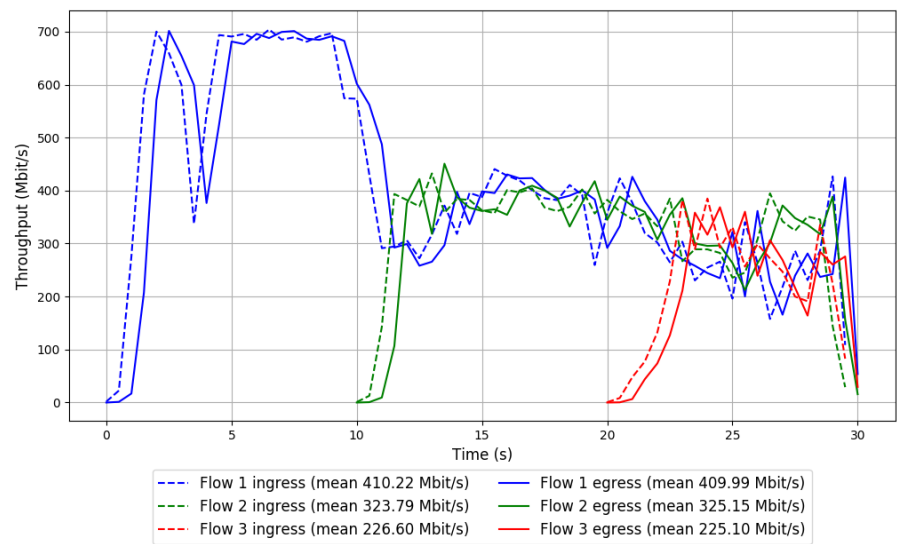


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 04:21:15  
End at: 2019-09-19 04:21:45  
Local clock offset: -0.057 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-09-19 09:34:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 695.13 Mbit/s  
95th percentile per-packet one-way delay: 75.699 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 409.99 Mbit/s  
95th percentile per-packet one-way delay: 77.567 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 325.15 Mbit/s  
95th percentile per-packet one-way delay: 65.979 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 225.10 Mbit/s  
95th percentile per-packet one-way delay: 104.957 ms  
Loss rate: 1.86%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

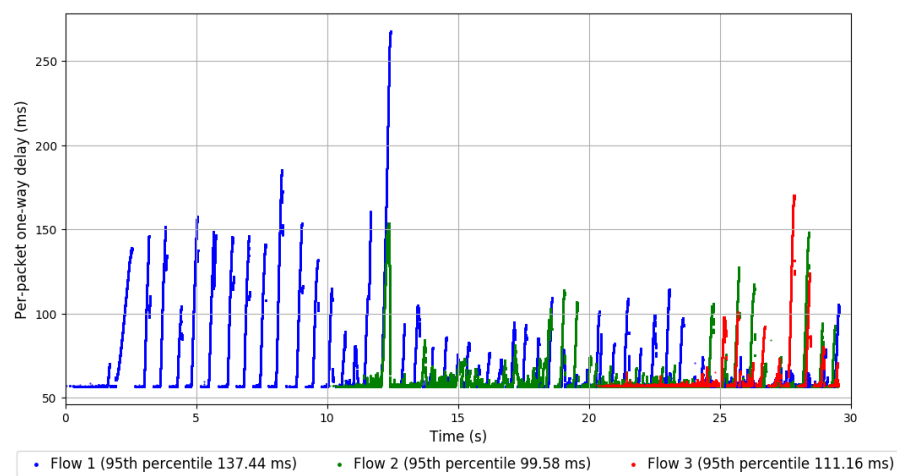
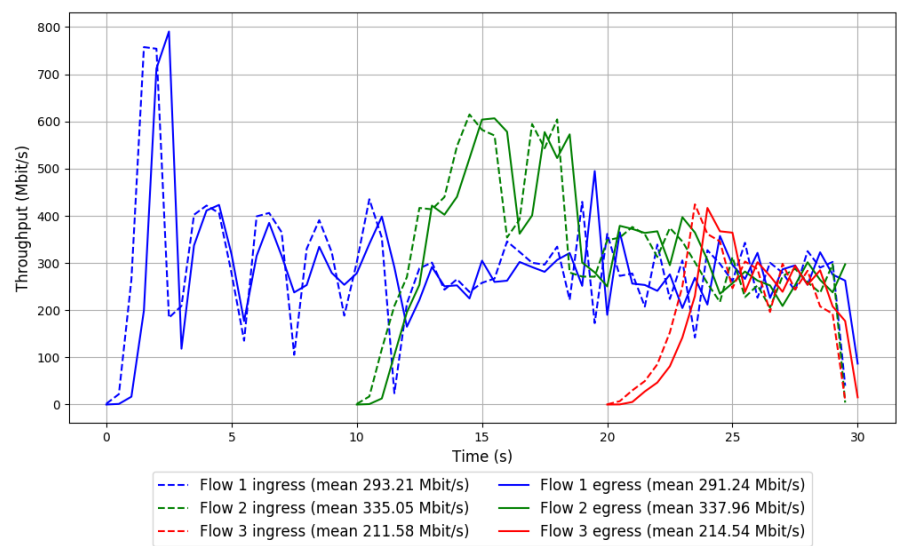


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 05:02:13  
End at: 2019-09-19 05:02:43  
Local clock offset: -0.138 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-09-19 09:38:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 580.56 Mbit/s  
95th percentile per-packet one-way delay: 127.268 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 291.24 Mbit/s  
95th percentile per-packet one-way delay: 137.442 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 337.96 Mbit/s  
95th percentile per-packet one-way delay: 99.580 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 214.54 Mbit/s  
95th percentile per-packet one-way delay: 111.162 ms  
Loss rate: 0.24%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

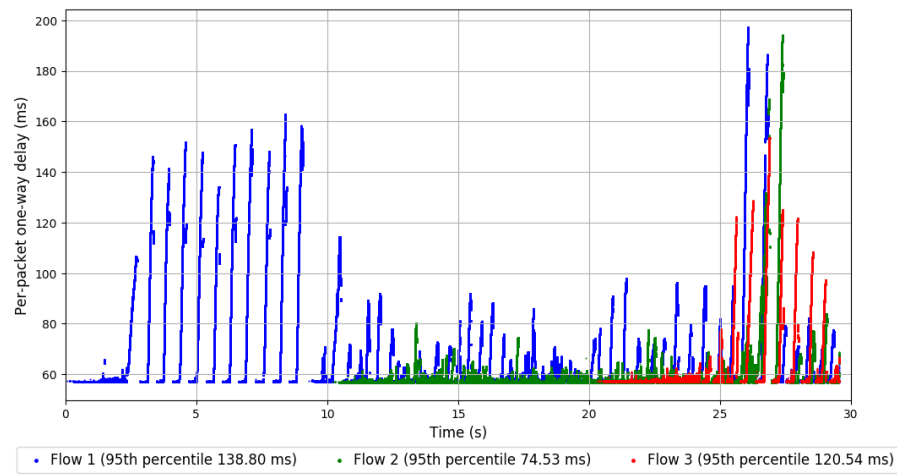
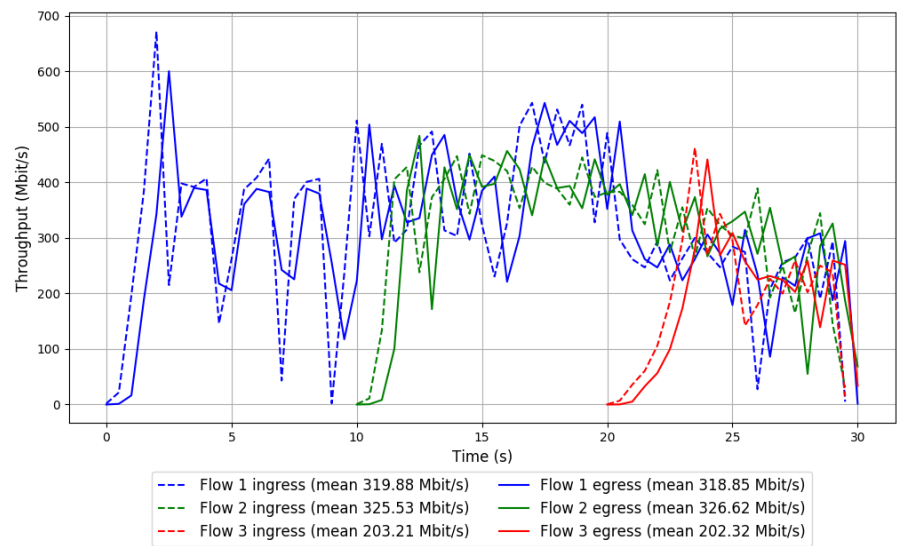


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 05:43:33  
End at: 2019-09-19 05:44:03  
Local clock offset: -0.254 ms  
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-09-19 09:39:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 596.78 Mbit/s  
95th percentile per-packet one-way delay: 126.276 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 318.85 Mbit/s  
95th percentile per-packet one-way delay: 138.804 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 326.62 Mbit/s  
95th percentile per-packet one-way delay: 74.532 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 202.32 Mbit/s  
95th percentile per-packet one-way delay: 120.541 ms  
Loss rate: 0.58%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 06:24:34

End at: 2019-09-19 06:25:04

Local clock offset: -0.109 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-09-19 09:42:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 581.40 Mbit/s

95th percentile per-packet one-way delay: 112.262 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 323.88 Mbit/s

95th percentile per-packet one-way delay: 122.864 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 273.61 Mbit/s

95th percentile per-packet one-way delay: 100.170 ms

Loss rate: 0.03%

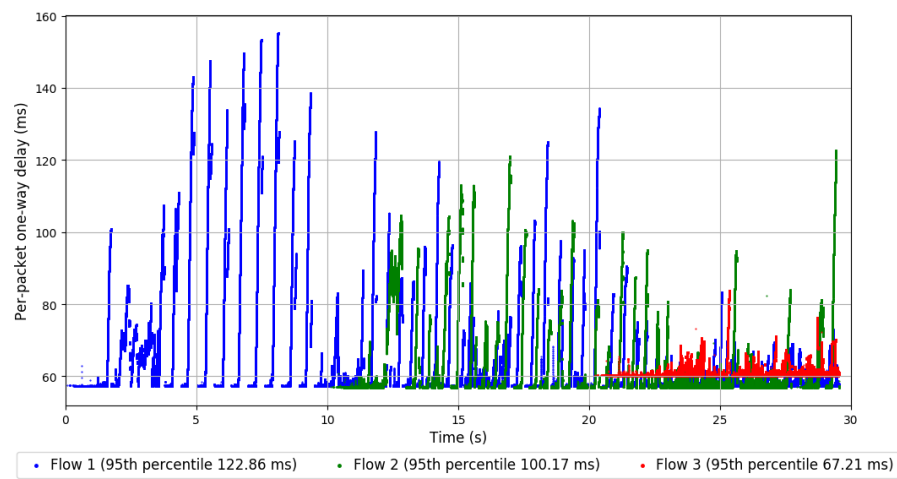
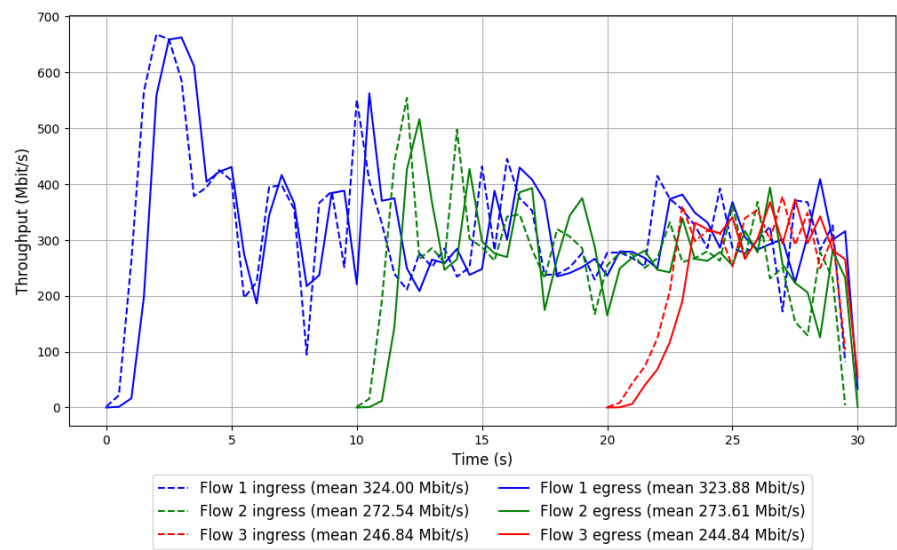
-- Flow 3:

Average throughput: 244.84 Mbit/s

95th percentile per-packet one-way delay: 67.206 ms

Loss rate: 2.20%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



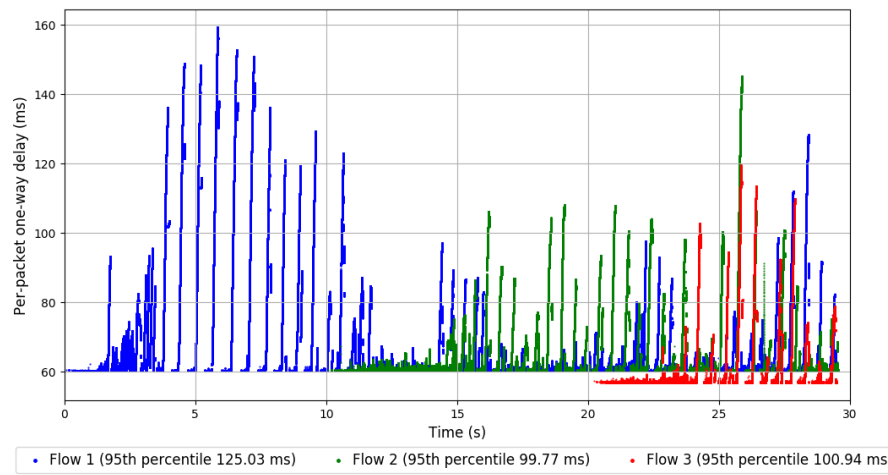
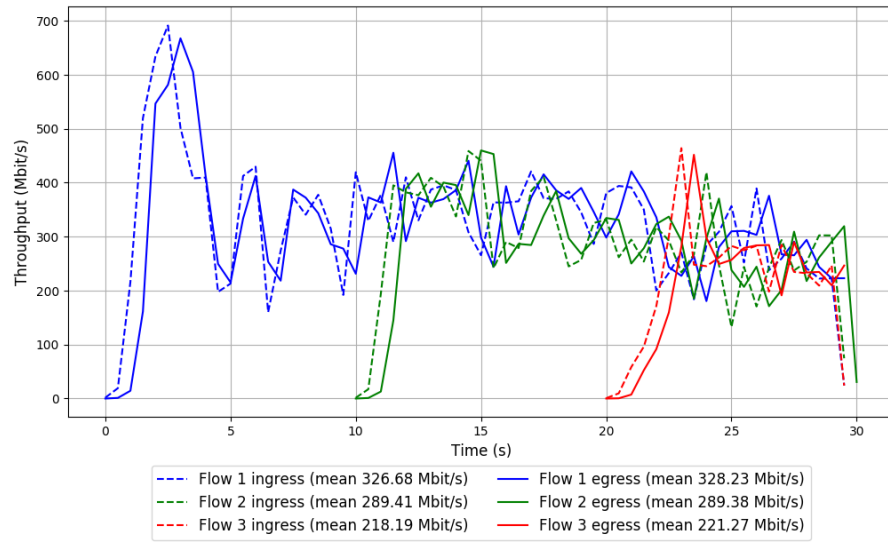


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 07:05:45  
End at: 2019-09-19 07:06:15  
Local clock offset: -0.098 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-09-19 09:43:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 587.88 Mbit/s  
95th percentile per-packet one-way delay: 112.821 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 328.23 Mbit/s  
95th percentile per-packet one-way delay: 125.028 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 289.38 Mbit/s  
95th percentile per-packet one-way delay: 99.768 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 221.27 Mbit/s  
95th percentile per-packet one-way delay: 100.938 ms  
Loss rate: 0.58%

# Run 5: Report of Muses\_DecisionTreeH0 — Data Link

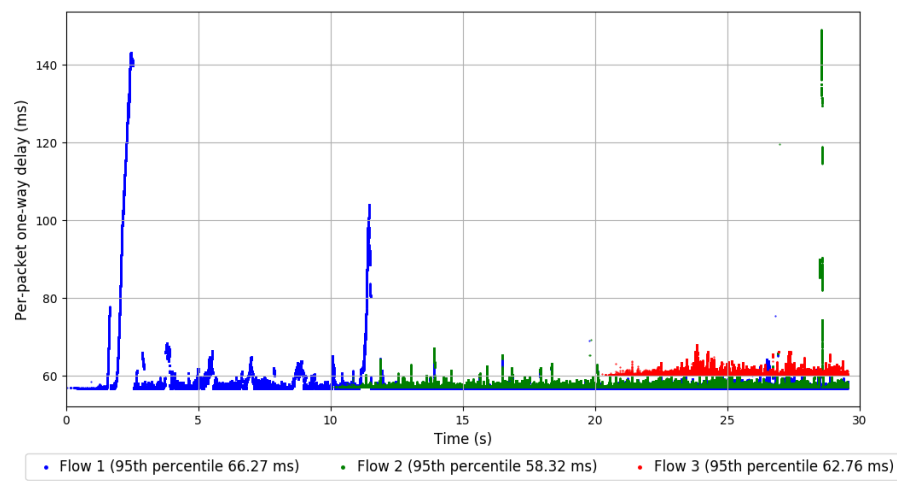
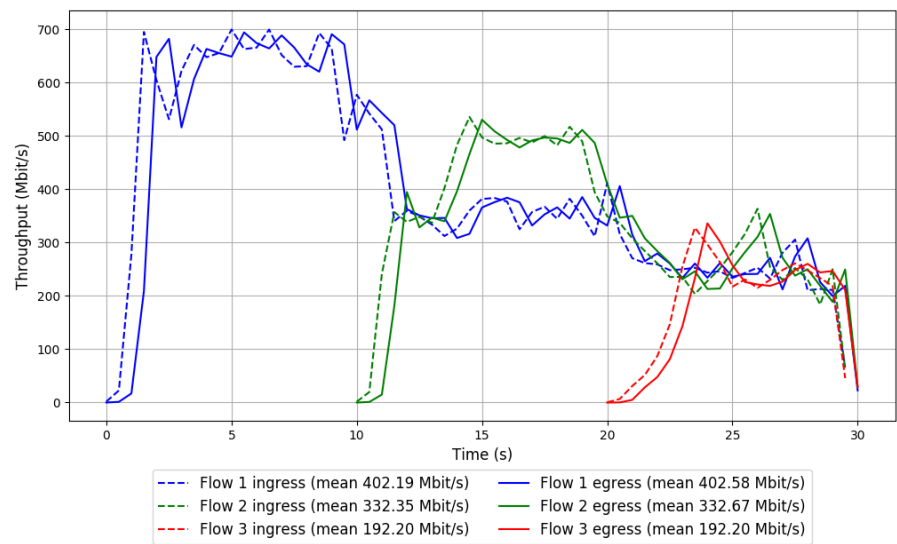


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 04:10:58  
End at: 2019-09-19 04:11:28  
Local clock offset: -0.076 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-09-19 09:45:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 682.65 Mbit/s  
95th percentile per-packet one-way delay: 62.825 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 402.58 Mbit/s  
95th percentile per-packet one-way delay: 66.271 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 332.67 Mbit/s  
95th percentile per-packet one-way delay: 58.317 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 192.20 Mbit/s  
95th percentile per-packet one-way delay: 62.756 ms  
Loss rate: 1.30%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 04:51:50

End at: 2019-09-19 04:52:20

Local clock offset: 0.164 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-09-19 09:46:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 729.05 Mbit/s

95th percentile per-packet one-way delay: 66.134 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 429.56 Mbit/s

95th percentile per-packet one-way delay: 68.872 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 332.05 Mbit/s

95th percentile per-packet one-way delay: 64.906 ms

Loss rate: 0.53%

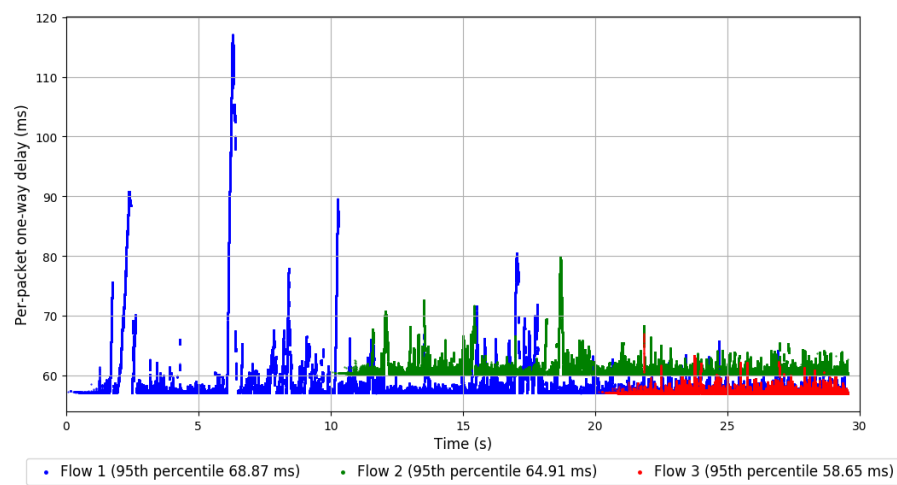
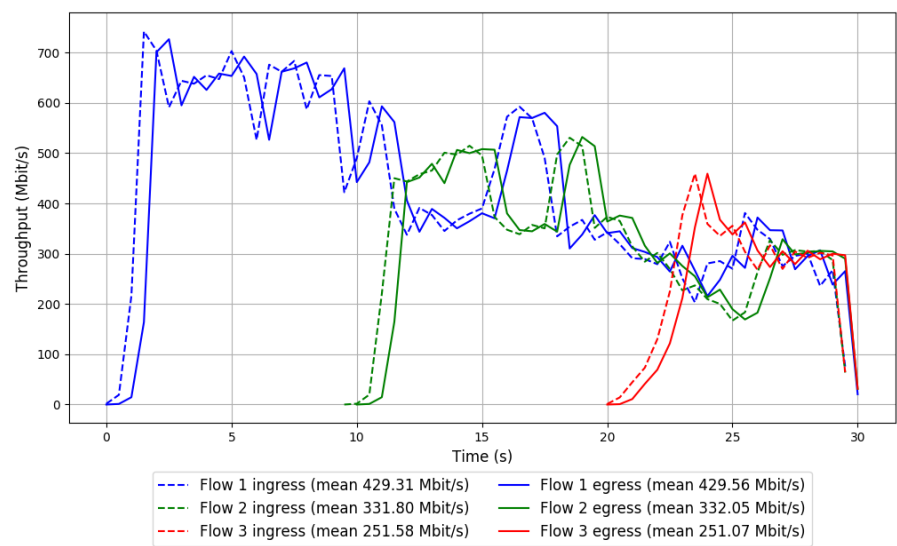
-- Flow 3:

Average throughput: 251.07 Mbit/s

95th percentile per-packet one-way delay: 58.652 ms

Loss rate: 1.45%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

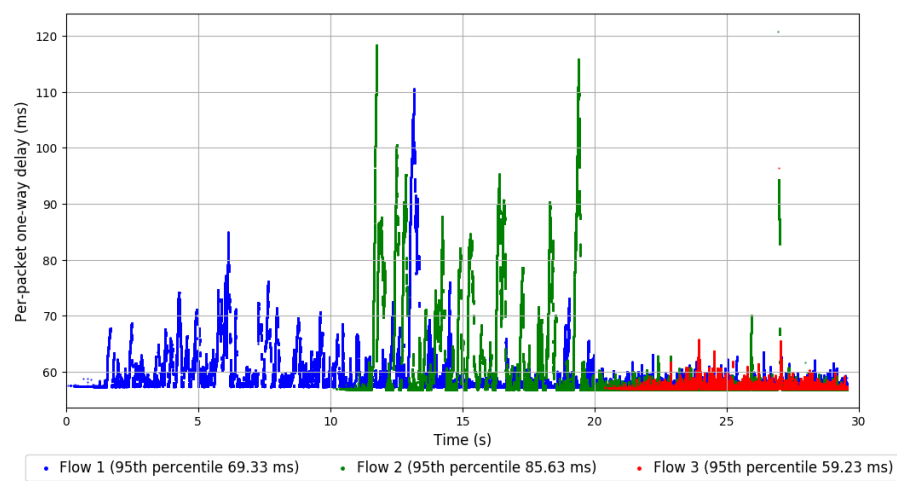
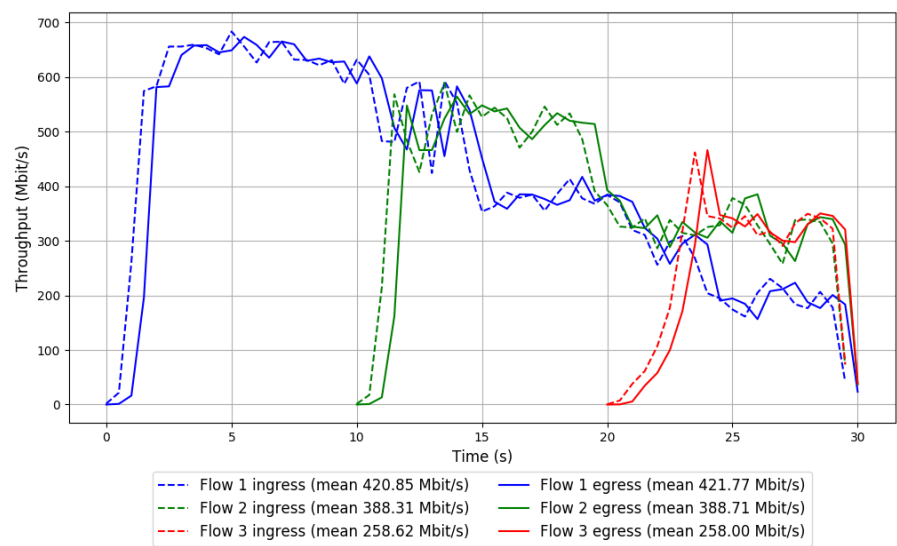


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 05:33:11  
End at: 2019-09-19 05:33:41  
Local clock offset: 0.141 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-09-19 09:47:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 759.19 Mbit/s  
95th percentile per-packet one-way delay: 75.225 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 421.77 Mbit/s  
95th percentile per-packet one-way delay: 69.328 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 388.71 Mbit/s  
95th percentile per-packet one-way delay: 85.628 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 258.00 Mbit/s  
95th percentile per-packet one-way delay: 59.231 ms  
Loss rate: 1.51%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



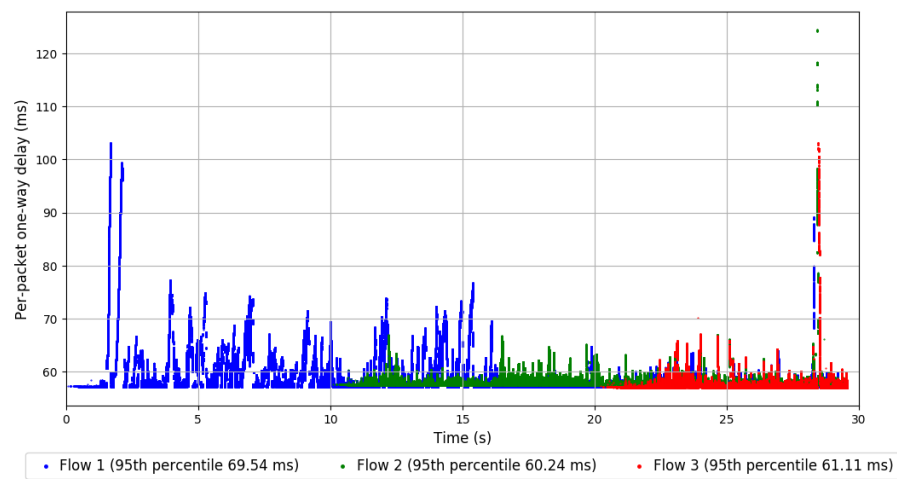
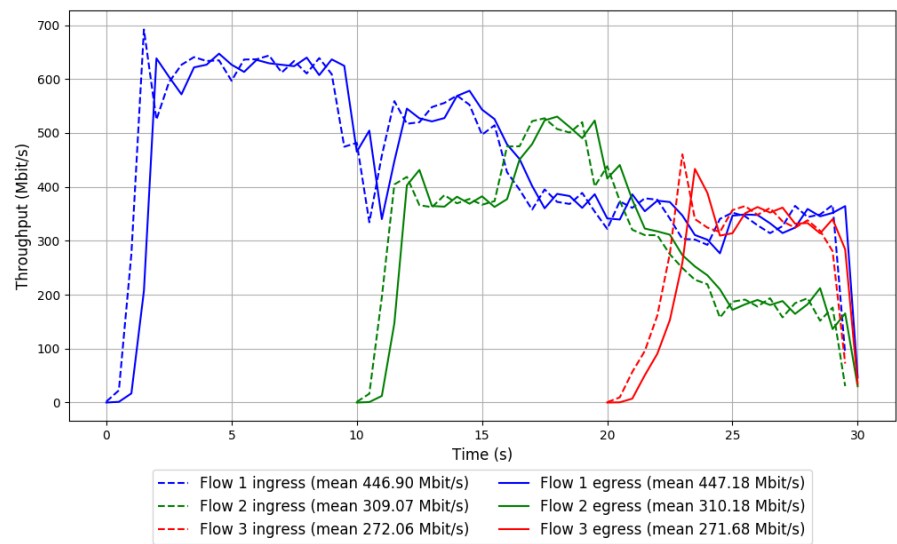


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 06:14:14  
End at: 2019-09-19 06:14:44  
Local clock offset: -0.106 ms  
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2019-09-19 09:48:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 737.51 Mbit/s  
95th percentile per-packet one-way delay: 66.739 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 447.18 Mbit/s  
95th percentile per-packet one-way delay: 69.541 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 310.18 Mbit/s  
95th percentile per-packet one-way delay: 60.245 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 271.68 Mbit/s  
95th percentile per-packet one-way delay: 61.106 ms  
Loss rate: 1.36%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 06:55:24

End at: 2019-09-19 06:55:54

Local clock offset: -0.362 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-09-19 09:52:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 759.58 Mbit/s

95th percentile per-packet one-way delay: 69.017 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 433.66 Mbit/s

95th percentile per-packet one-way delay: 73.490 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 388.63 Mbit/s

95th percentile per-packet one-way delay: 63.298 ms

Loss rate: 0.49%

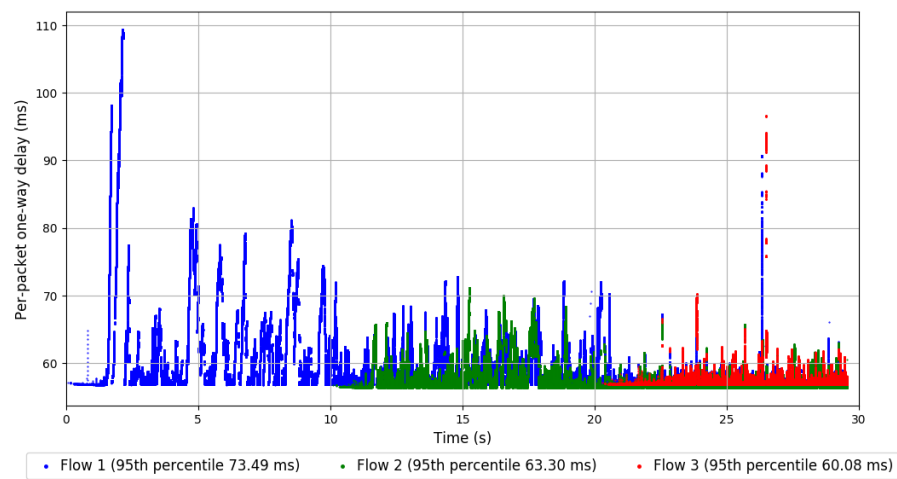
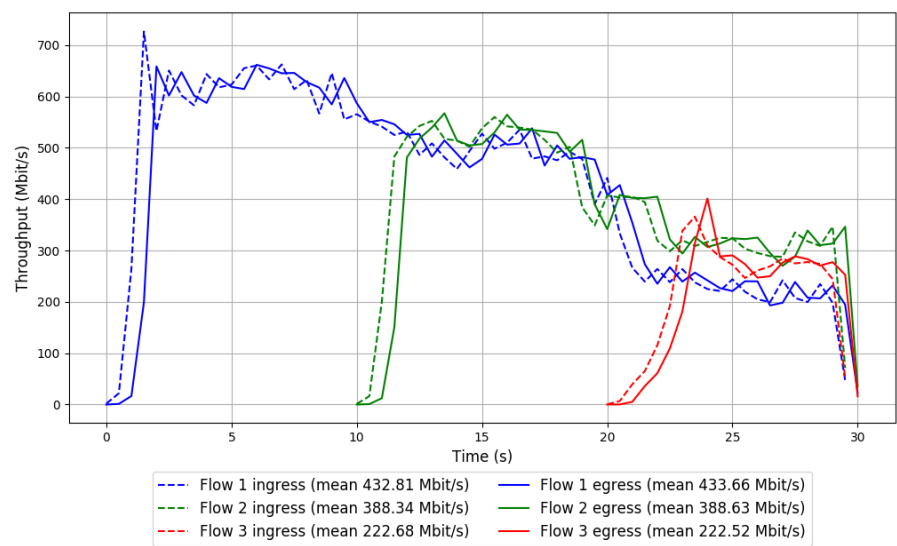
-- Flow 3:

Average throughput: 222.52 Mbit/s

95th percentile per-packet one-way delay: 60.082 ms

Loss rate: 1.30%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

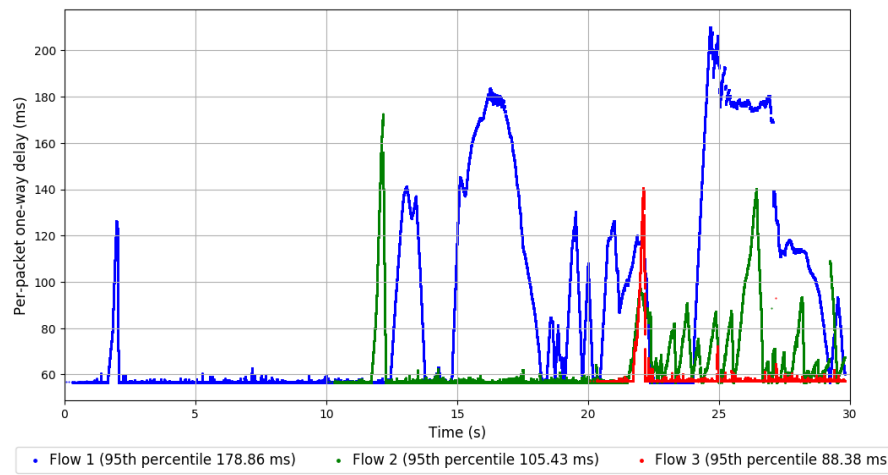
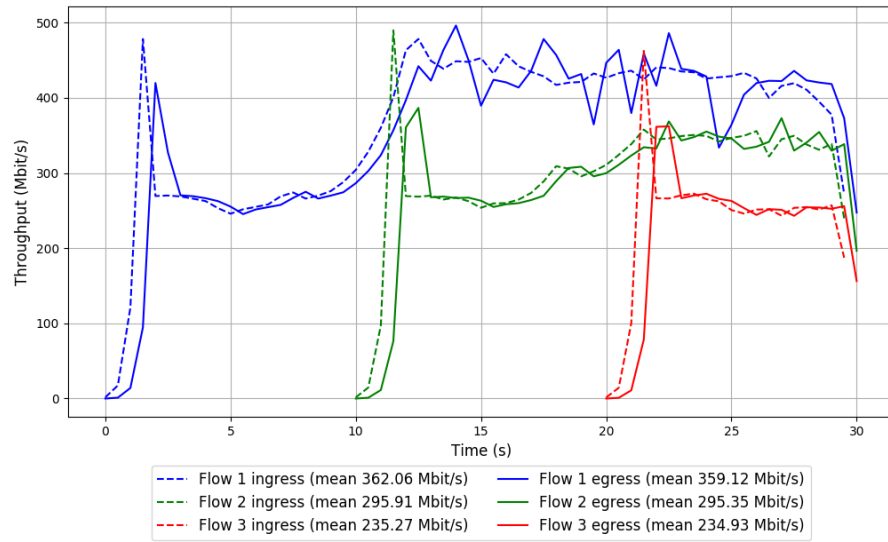


Run 1: Statistics of PCC-Allegro

Start at: 2019-09-19 04:16:19  
End at: 2019-09-19 04:16:49  
Local clock offset: -0.274 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-09-19 10:02:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 631.86 Mbit/s  
95th percentile per-packet one-way delay: 176.808 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 359.12 Mbit/s  
95th percentile per-packet one-way delay: 178.858 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 295.35 Mbit/s  
95th percentile per-packet one-way delay: 105.431 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 234.93 Mbit/s  
95th percentile per-packet one-way delay: 88.377 ms  
Loss rate: 1.31%

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



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-19 04:57:13

End at: 2019-09-19 04:57:43

Local clock offset: 0.085 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-09-19 10:04:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 643.37 Mbit/s

95th percentile per-packet one-way delay: 171.314 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 354.88 Mbit/s

95th percentile per-packet one-way delay: 161.530 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 312.44 Mbit/s

95th percentile per-packet one-way delay: 191.035 ms

Loss rate: 2.47%

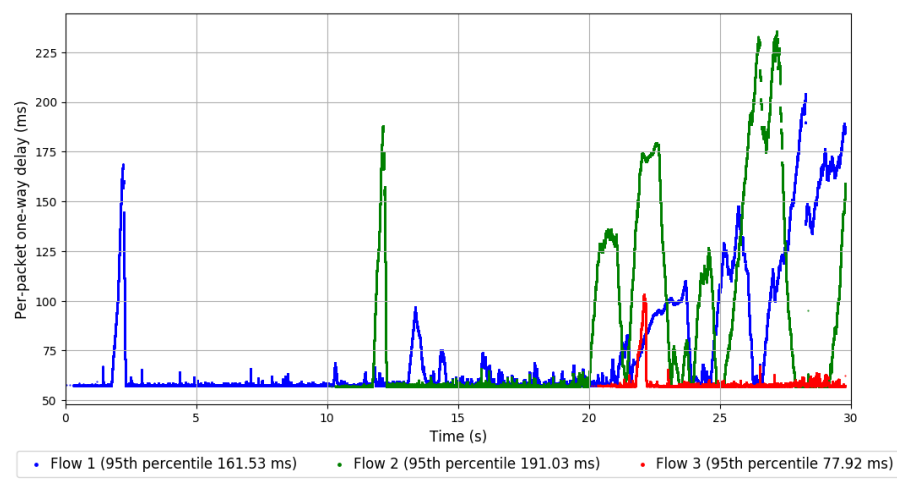
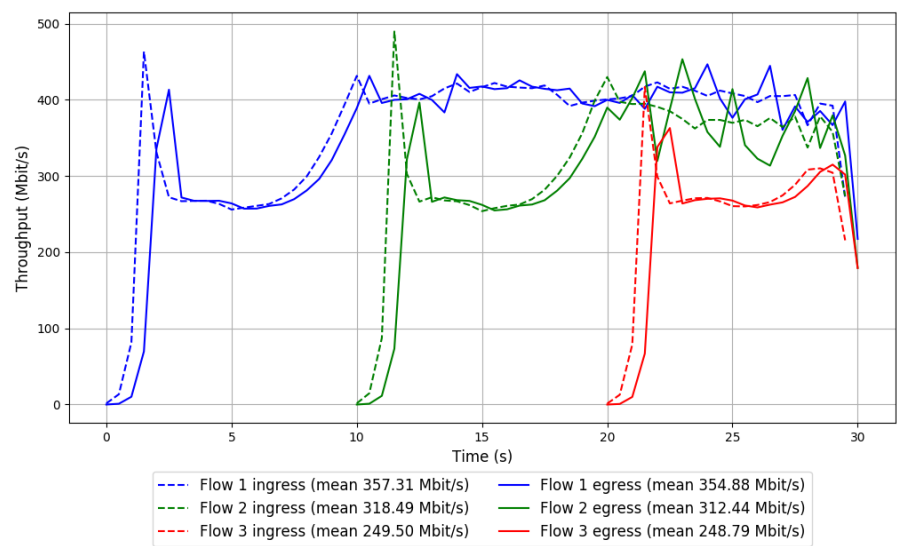
-- Flow 3:

Average throughput: 248.79 Mbit/s

95th percentile per-packet one-way delay: 77.925 ms

Loss rate: 1.45%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-09-19 05:38:34

End at: 2019-09-19 05:39:04

Local clock offset: -0.051 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-09-19 10:05:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 624.11 Mbit/s

95th percentile per-packet one-way delay: 158.560 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 350.51 Mbit/s

95th percentile per-packet one-way delay: 185.480 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 293.87 Mbit/s

95th percentile per-packet one-way delay: 101.452 ms

Loss rate: 0.73%

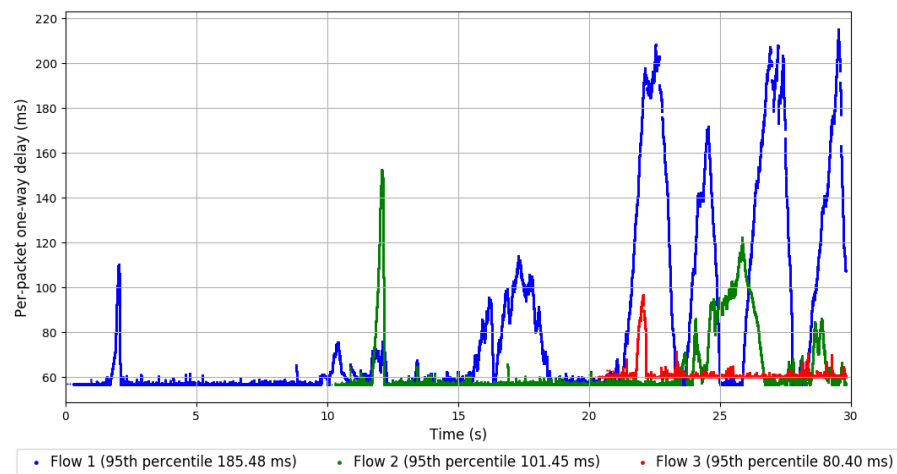
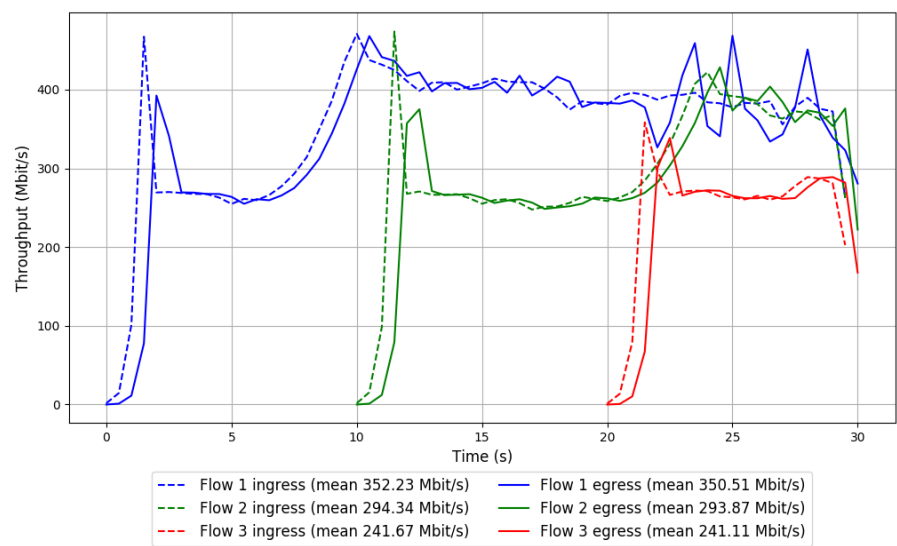
-- Flow 3:

Average throughput: 241.11 Mbit/s

95th percentile per-packet one-way delay: 80.404 ms

Loss rate: 1.43%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-19 06:19:34

End at: 2019-09-19 06:20:04

Local clock offset: 0.068 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-09-19 10:08:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 654.91 Mbit/s

95th percentile per-packet one-way delay: 155.151 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 358.21 Mbit/s

95th percentile per-packet one-way delay: 164.249 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 321.64 Mbit/s

95th percentile per-packet one-way delay: 84.421 ms

Loss rate: 1.30%

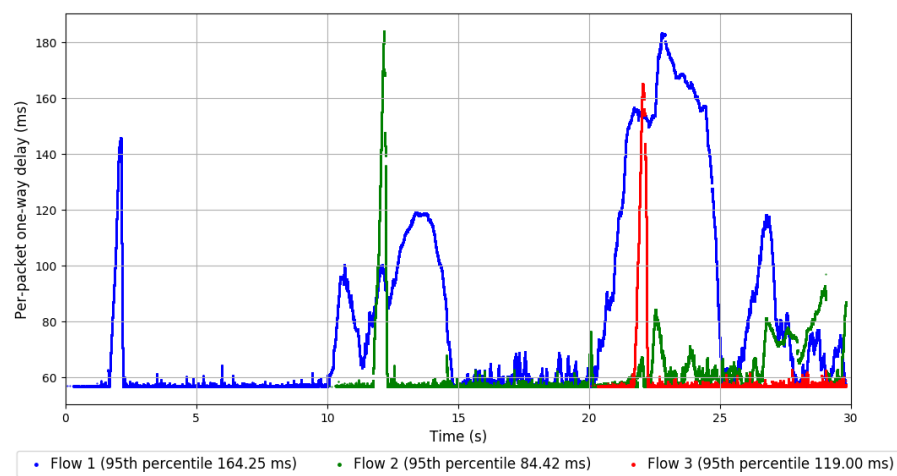
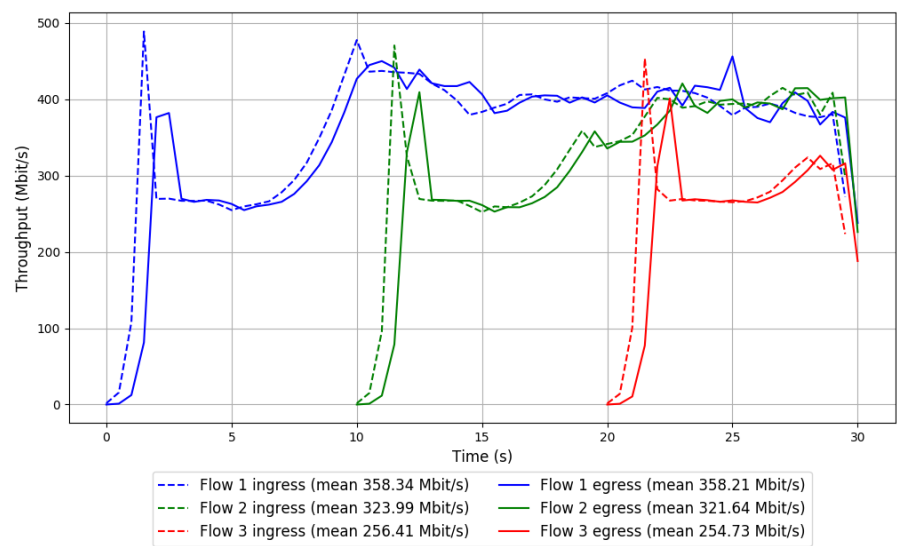
-- Flow 3:

Average throughput: 254.73 Mbit/s

95th percentile per-packet one-way delay: 119.003 ms

Loss rate: 1.80%

Run 4: Report of PCC-Allegro — Data Link

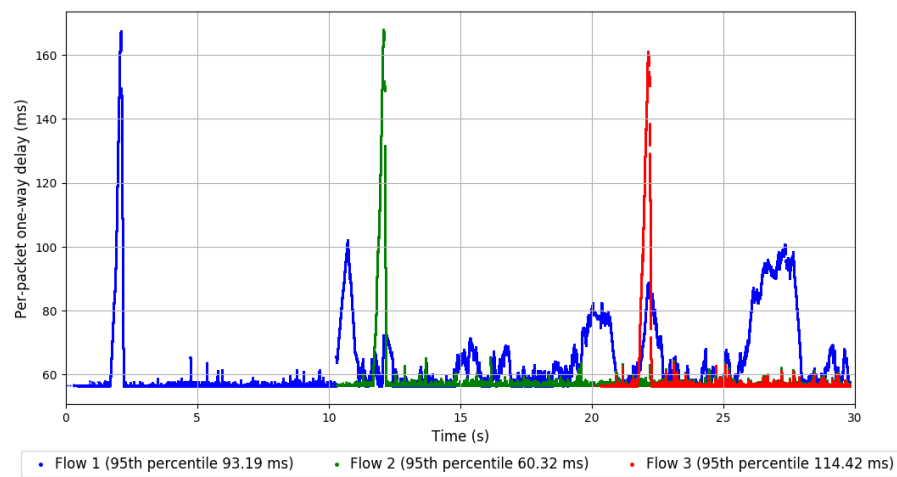
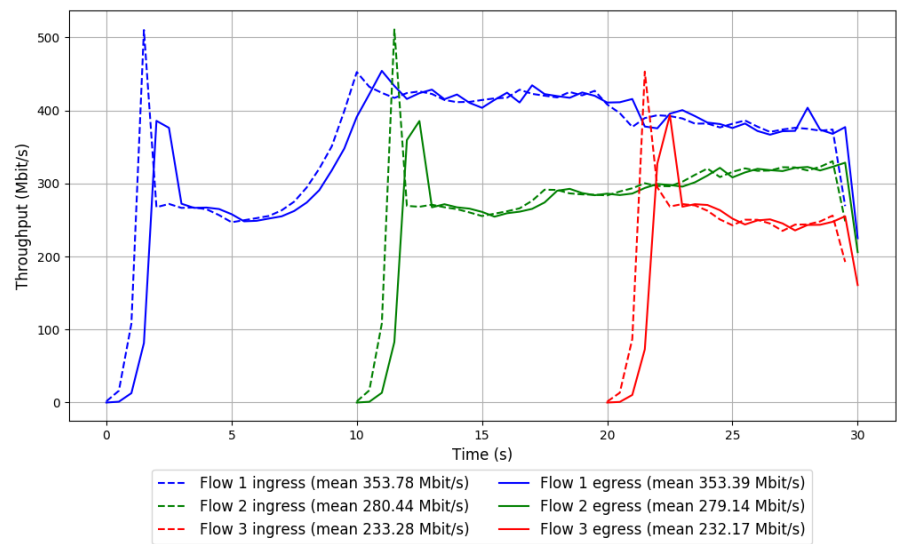


Run 5: Statistics of PCC-Allegro

Start at: 2019-09-19 07:00:47  
End at: 2019-09-19 07:01:17  
Local clock offset: -0.313 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-09-19 10:08:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 614.32 Mbit/s  
95th percentile per-packet one-way delay: 92.044 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 353.39 Mbit/s  
95th percentile per-packet one-way delay: 93.192 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 279.14 Mbit/s  
95th percentile per-packet one-way delay: 60.323 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 232.17 Mbit/s  
95th percentile per-packet one-way delay: 114.418 ms  
Loss rate: 1.64%

Run 5: Report of PCC-Allegro — Data Link

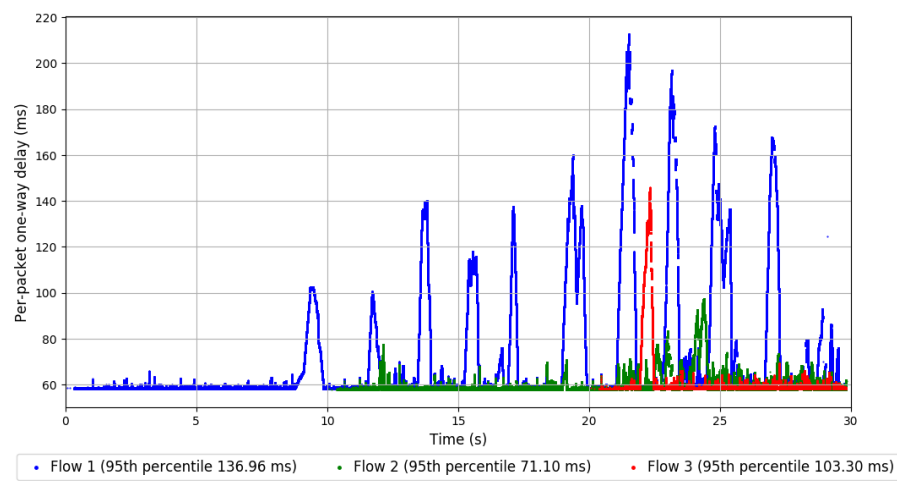
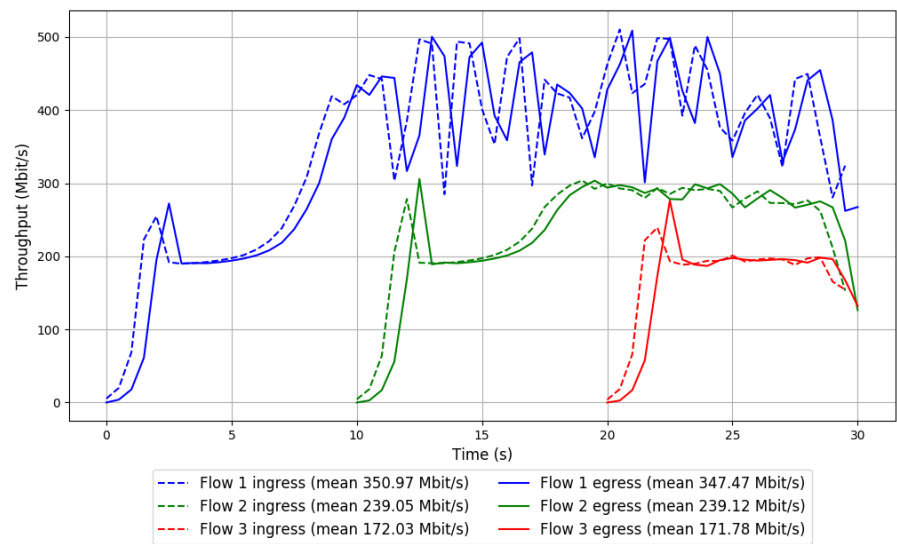


```
Run 1: Statistics of PCC-Expr

Start at: 2019-09-19 04:40:46
End at: 2019-09-19 04:41:16
Local clock offset: 0.375 ms
Remote clock offset: -0.815 ms

# Below is generated by plot.py at 2019-09-19 10:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 562.44 Mbit/s
95th percentile per-packet one-way delay: 126.936 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 347.47 Mbit/s
95th percentile per-packet one-way delay: 136.959 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 239.12 Mbit/s
95th percentile per-packet one-way delay: 71.102 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 171.78 Mbit/s
95th percentile per-packet one-way delay: 103.295 ms
Loss rate: 1.31%
```

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-09-19 05:21:42

End at: 2019-09-19 05:22:12

Local clock offset: 0.333 ms

Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2019-09-19 10:08:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 537.30 Mbit/s

95th percentile per-packet one-way delay: 111.653 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 256.59 Mbit/s

95th percentile per-packet one-way delay: 86.508 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 337.72 Mbit/s

95th percentile per-packet one-way delay: 156.262 ms

Loss rate: 2.09%

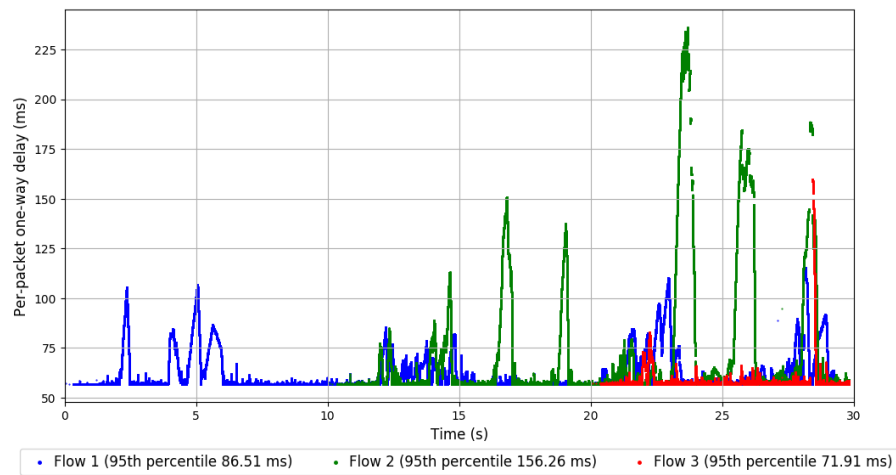
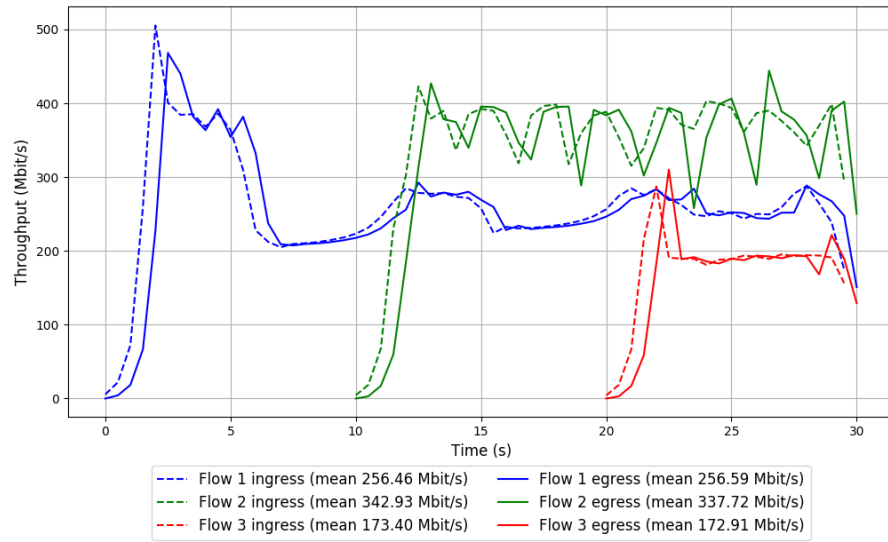
-- Flow 3:

Average throughput: 172.91 Mbit/s

95th percentile per-packet one-way delay: 71.914 ms

Loss rate: 1.44%

## Run 2: Report of PCC-Expr — Data Link

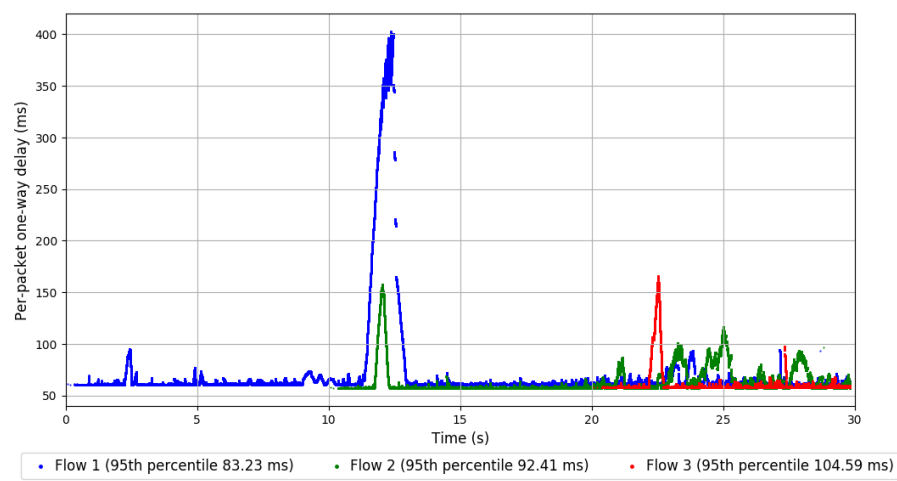
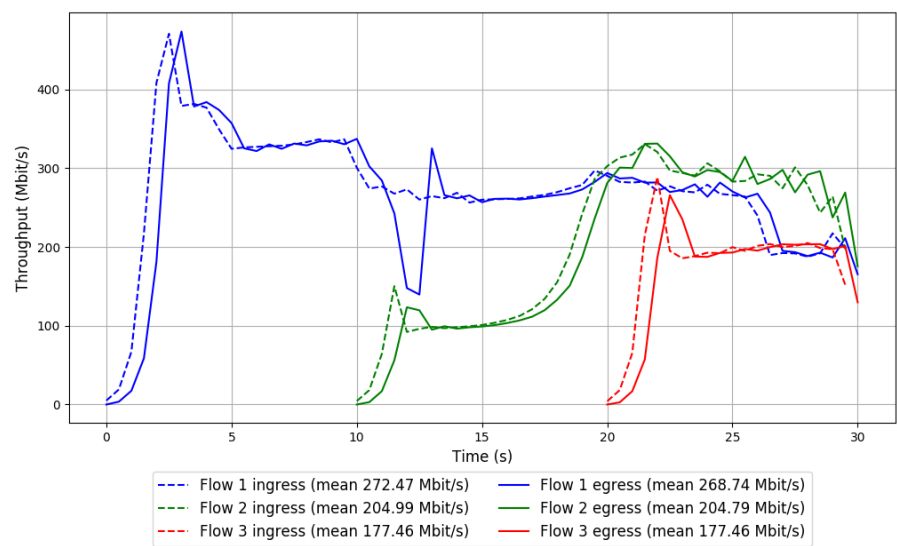


Run 3: Statistics of PCC-Expr

Start at: 2019-09-19 06:02:59  
End at: 2019-09-19 06:03:29  
Local clock offset: 0.358 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-09-19 10:09:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 462.79 Mbit/s  
95th percentile per-packet one-way delay: 89.828 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 268.74 Mbit/s  
95th percentile per-packet one-way delay: 83.227 ms  
Loss rate: 1.76%  
-- Flow 2:  
Average throughput: 204.79 Mbit/s  
95th percentile per-packet one-way delay: 92.407 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 177.46 Mbit/s  
95th percentile per-packet one-way delay: 104.591 ms  
Loss rate: 1.17%

Run 3: Report of PCC-Expr — Data Link

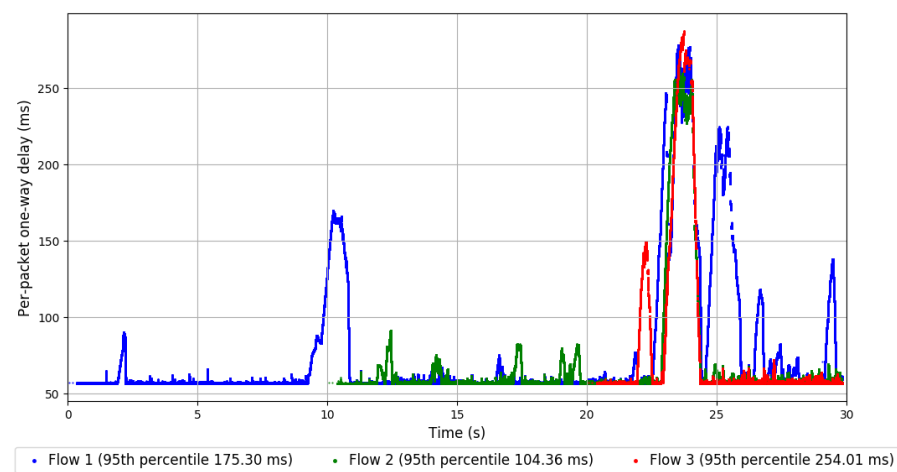
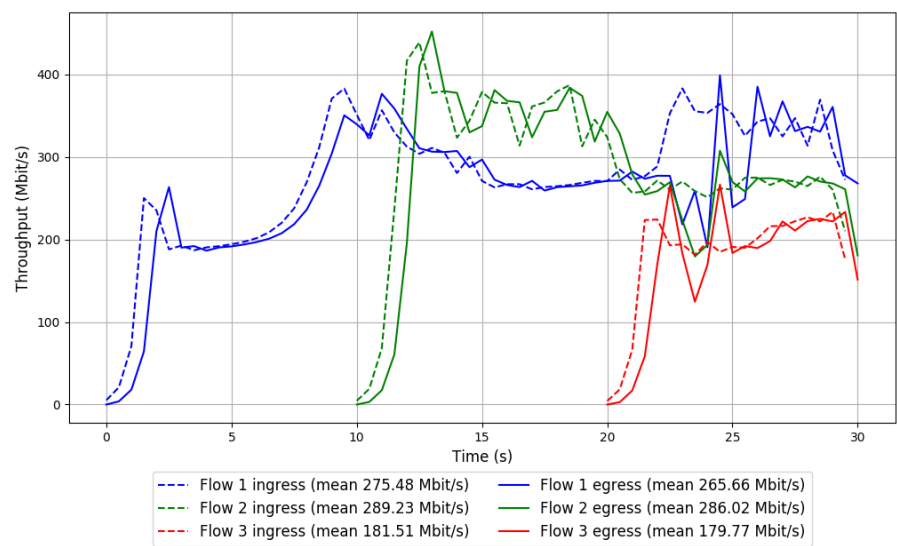


Run 4: Statistics of PCC-Expr

Start at: 2019-09-19 06:44:00  
End at: 2019-09-19 06:44:30  
Local clock offset: -0.084 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-09-19 10:19:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 514.46 Mbit/s  
95th percentile per-packet one-way delay: 174.760 ms  
Loss rate: 2.90%  
-- Flow 1:  
Average throughput: 265.66 Mbit/s  
95th percentile per-packet one-way delay: 175.297 ms  
Loss rate: 3.93%  
-- Flow 2:  
Average throughput: 286.02 Mbit/s  
95th percentile per-packet one-way delay: 104.359 ms  
Loss rate: 1.68%  
-- Flow 3:  
Average throughput: 179.77 Mbit/s  
95th percentile per-packet one-way delay: 254.014 ms  
Loss rate: 2.11%

Run 4: Report of PCC-Expr — Data Link

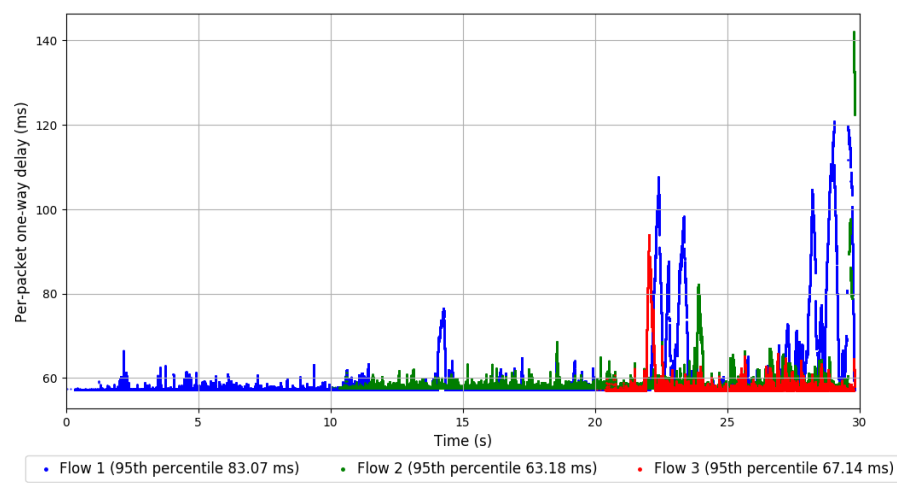
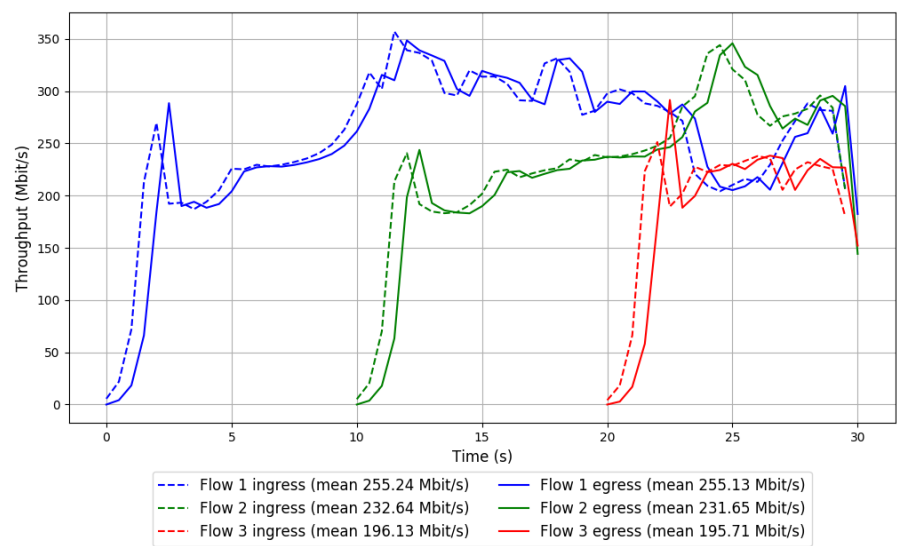


Run 5: Statistics of PCC-Expr

Start at: 2019-09-19 07:25:09  
End at: 2019-09-19 07:25:39  
Local clock offset: 0.181 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2019-09-19 10:20:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 472.93 Mbit/s  
95th percentile per-packet one-way delay: 73.611 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 255.13 Mbit/s  
95th percentile per-packet one-way delay: 83.071 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 231.65 Mbit/s  
95th percentile per-packet one-way delay: 63.182 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 195.71 Mbit/s  
95th percentile per-packet one-way delay: 67.143 ms  
Loss rate: 1.37%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-09-19 04:26:38

End at: 2019-09-19 04:27:08

Local clock offset: -0.305 ms

Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-09-19 10:20:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 132.92 Mbit/s

95th percentile per-packet one-way delay: 60.104 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 60.124 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 56.975 ms

Loss rate: 0.74%

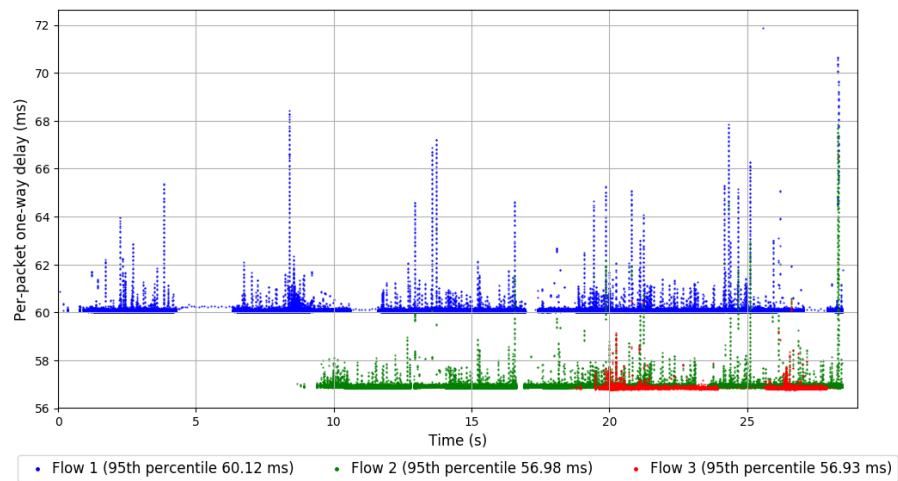
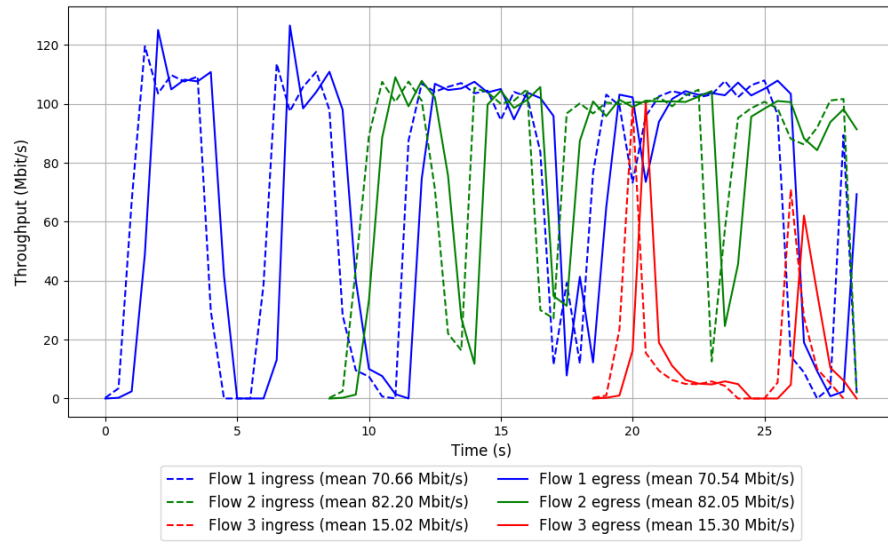
-- Flow 3:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 56.933 ms

Loss rate: 0.00%

# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-19 05:07:30

End at: 2019-09-19 05:08:00

Local clock offset: -0.472 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-09-19 10:20:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 132.39 Mbit/s

95th percentile per-packet one-way delay: 56.889 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 84.22 Mbit/s

95th percentile per-packet one-way delay: 56.849 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 56.914 ms

Loss rate: 0.99%

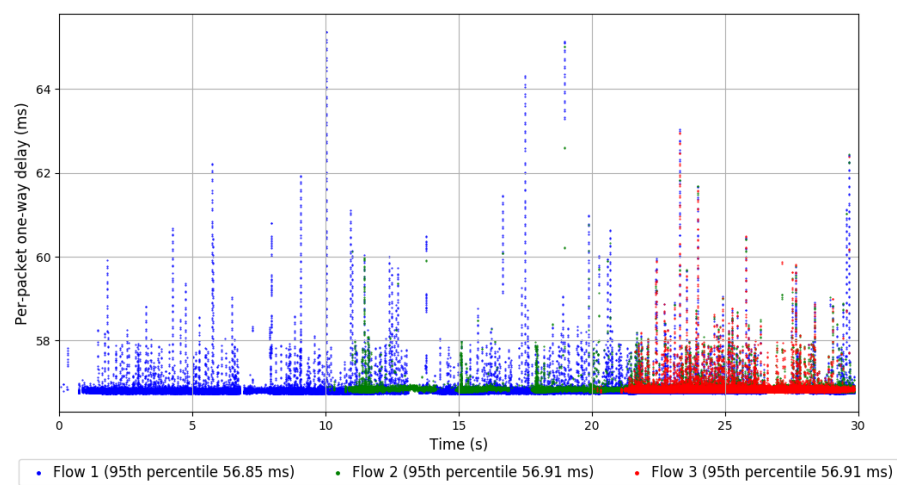
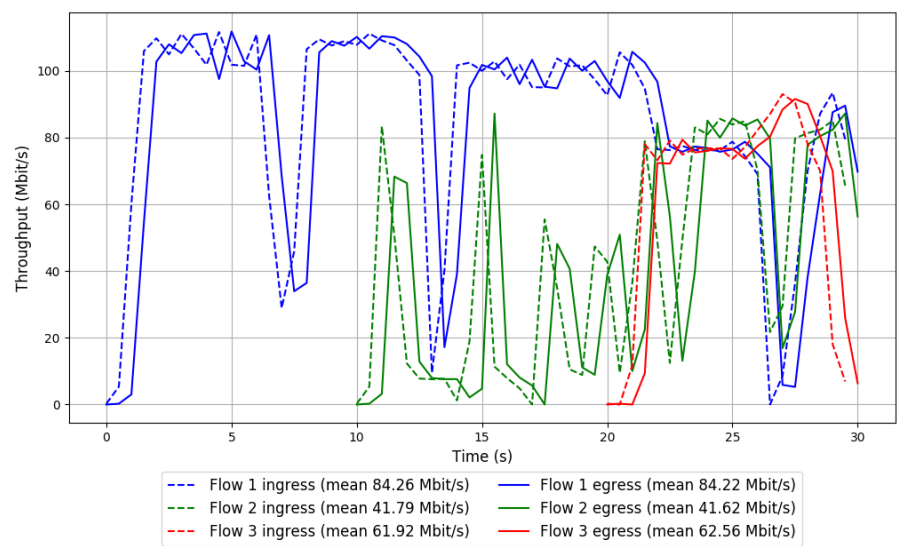
-- Flow 3:

Average throughput: 62.56 Mbit/s

95th percentile per-packet one-way delay: 56.910 ms

Loss rate: 0.13%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-19 05:48:52

End at: 2019-09-19 05:49:22

Local clock offset: -0.076 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-09-19 10:20:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 102.11 Mbit/s

95th percentile per-packet one-way delay: 57.156 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 52.11 Mbit/s

95th percentile per-packet one-way delay: 56.860 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 47.74 Mbit/s

95th percentile per-packet one-way delay: 56.749 ms

Loss rate: 0.92%

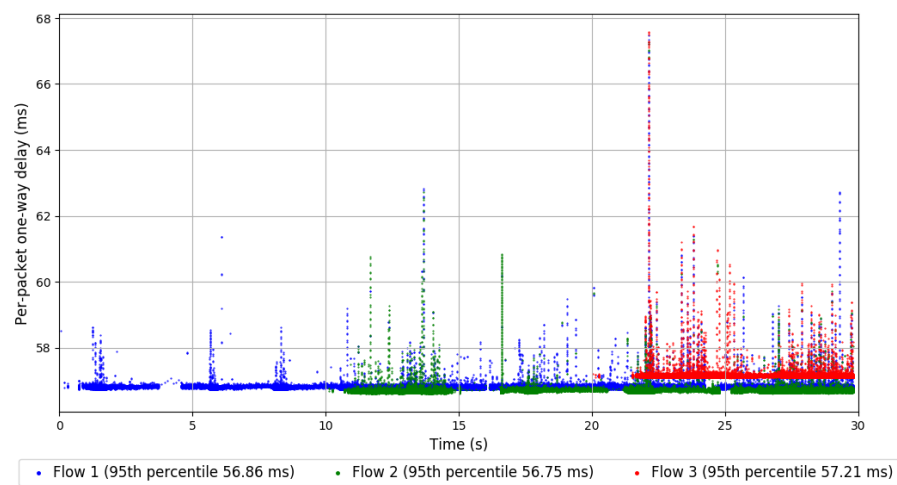
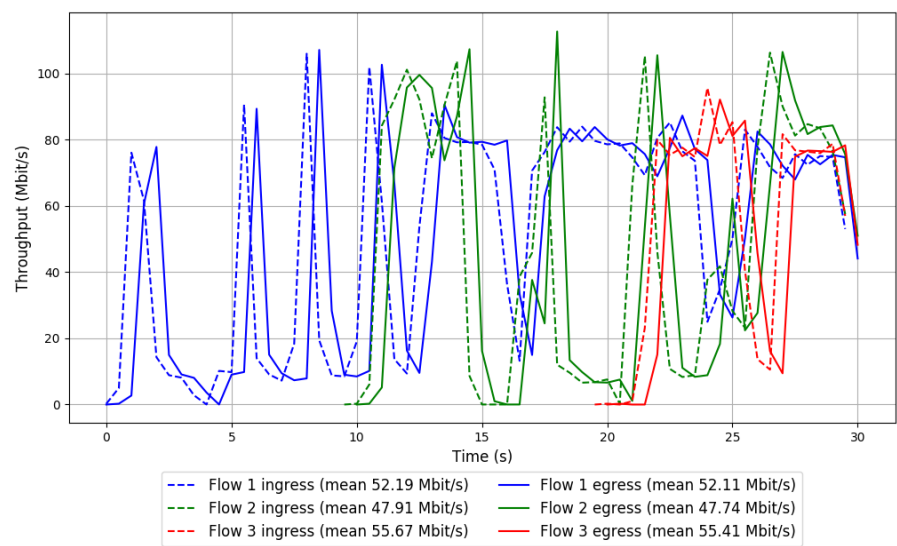
-- Flow 3:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 57.209 ms

Loss rate: 1.62%

Run 3: Report of QUIC Cubic — Data Link

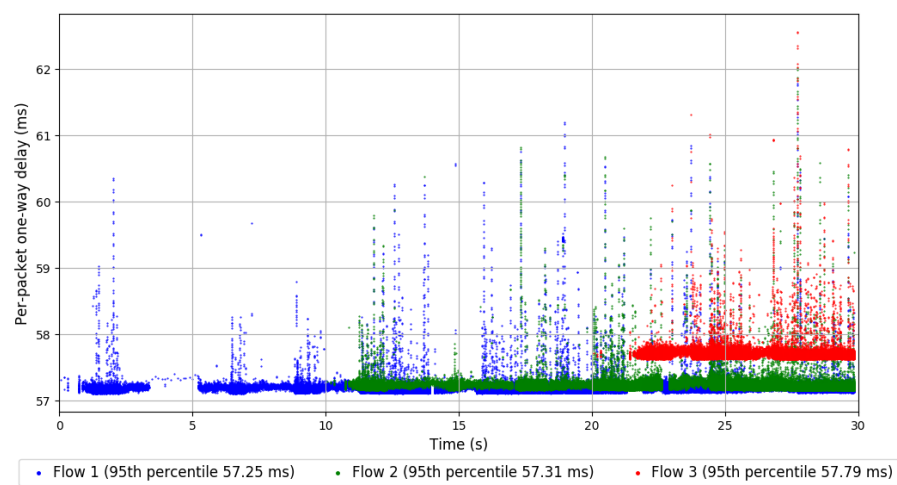
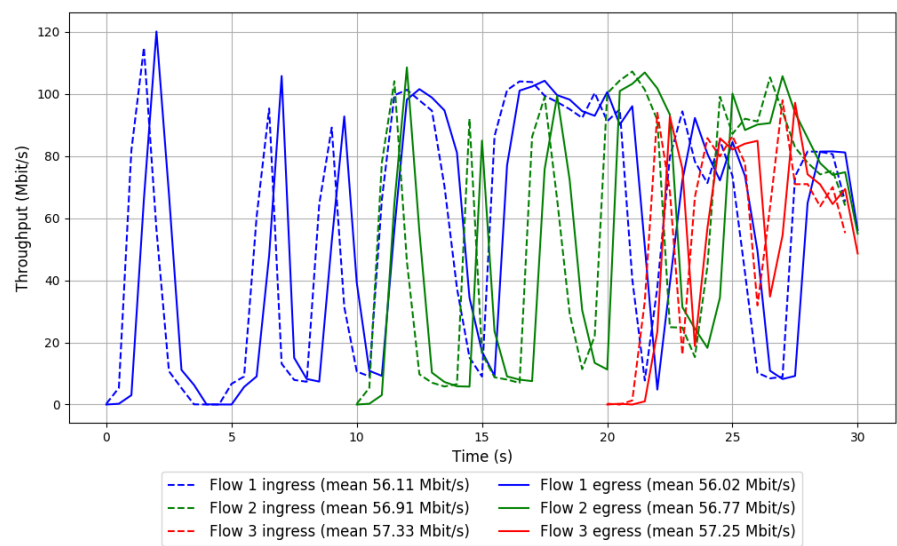


Run 4: Statistics of QUIC Cubic

Start at: 2019-09-19 06:29:53  
End at: 2019-09-19 06:30:23  
Local clock offset: 0.33 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-09-19 10:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 112.51 Mbit/s  
95th percentile per-packet one-way delay: 57.726 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 56.02 Mbit/s  
95th percentile per-packet one-way delay: 57.251 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 56.77 Mbit/s  
95th percentile per-packet one-way delay: 57.311 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 57.25 Mbit/s  
95th percentile per-packet one-way delay: 57.793 ms  
Loss rate: 1.30%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2019-09-19 07:11:05

End at: 2019-09-19 07:11:35

Local clock offset: -0.449 ms

Remote clock offset: 0.581 ms

# Below is generated by plot.py at 2019-09-19 10:20:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 59.203 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 55.828 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 39.42 Mbit/s

95th percentile per-packet one-way delay: 56.284 ms

Loss rate: 1.07%

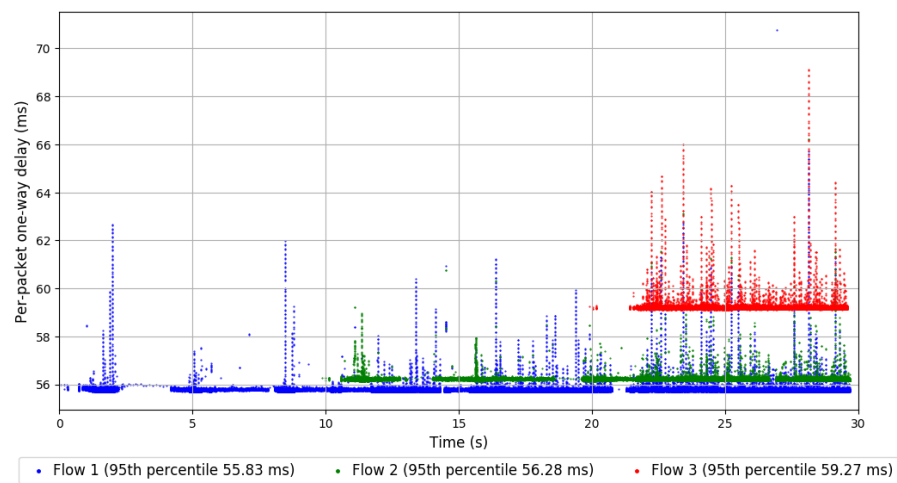
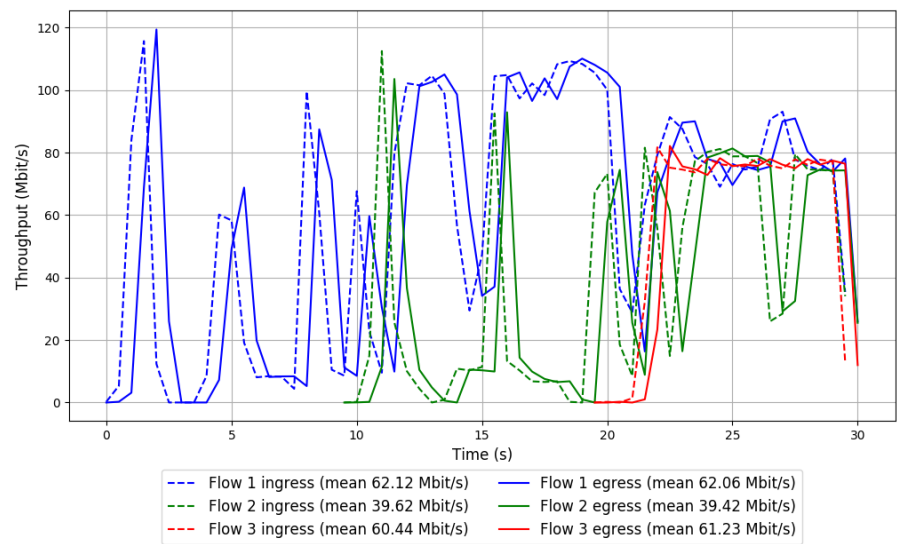
-- Flow 3:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 59.273 ms

Loss rate: 0.91%

Run 5: Report of QUIC Cubic — Data Link

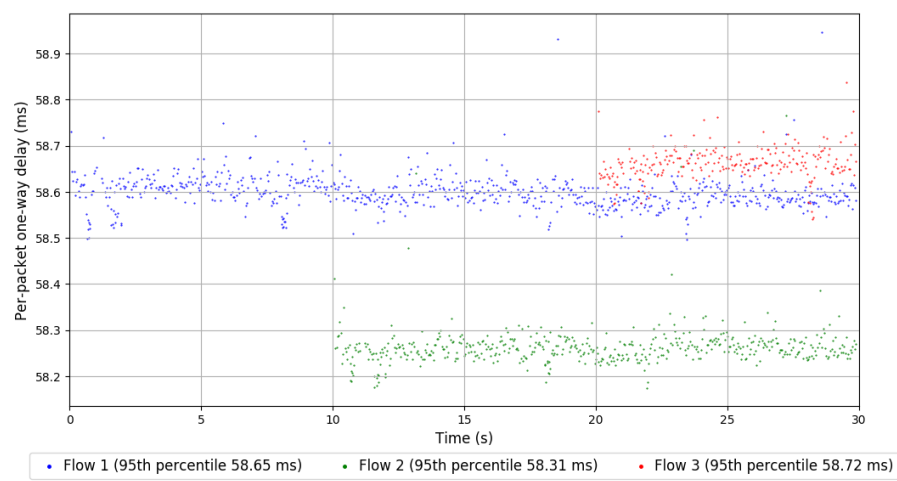
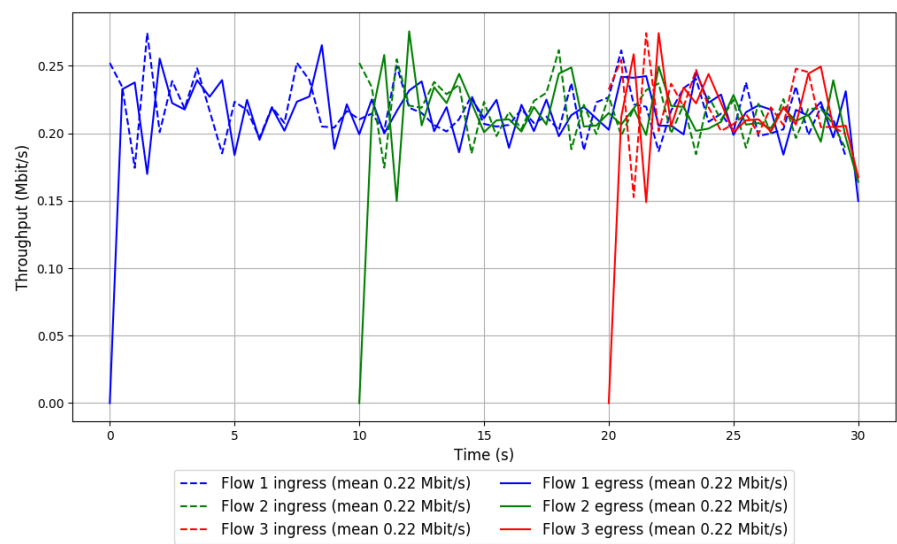


Run 1: Statistics of SReAM

Start at: 2019-09-19 04:07:50  
End at: 2019-09-19 04:08:20  
Local clock offset: -0.045 ms  
Remote clock offset: -1.421 ms

# Below is generated by plot.py at 2019-09-19 10:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 58.681 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 58.649 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 58.310 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 58.715 ms  
Loss rate: 1.09%

Run 1: Report of SReAM — Data Link

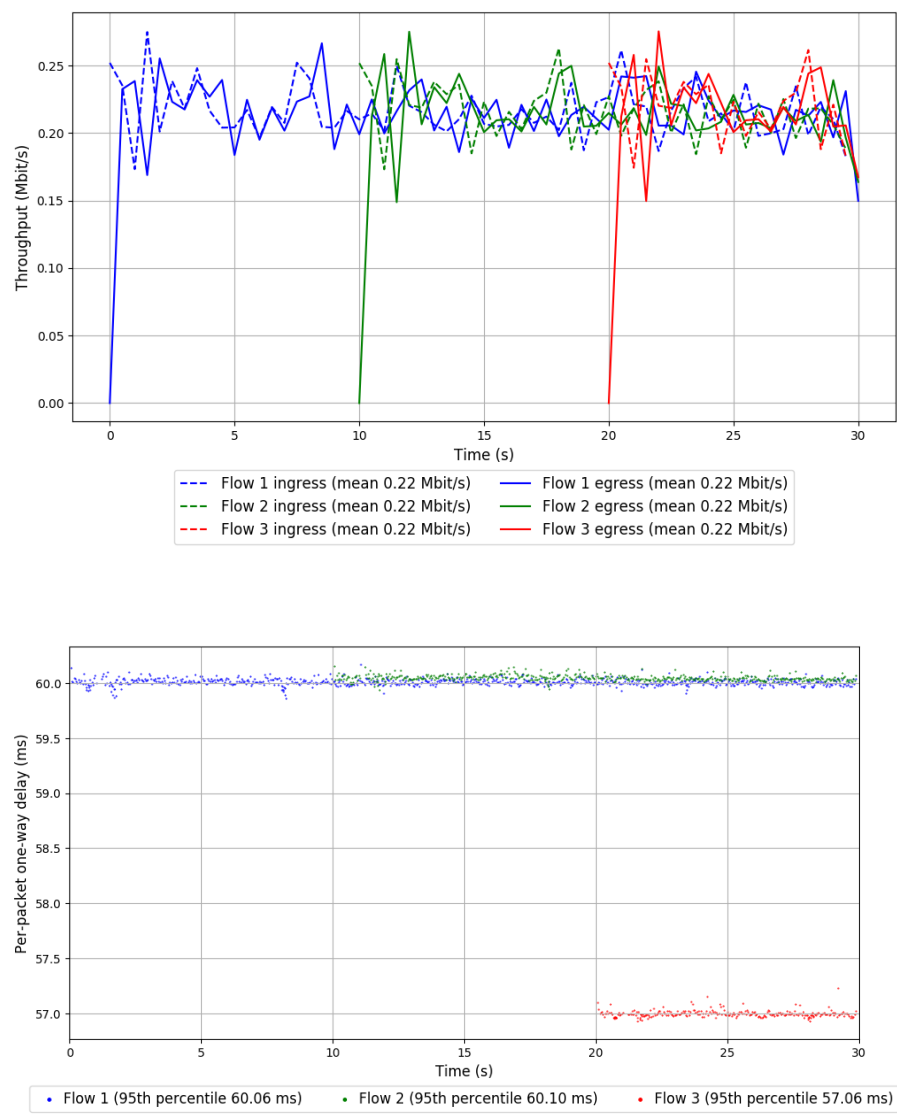


Run 2: Statistics of SReAM

Start at: 2019-09-19 04:48:56  
End at: 2019-09-19 04:49:26  
Local clock offset: -0.482 ms  
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2019-09-19 10:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 60.078 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.063 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.098 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.062 ms  
Loss rate: 1.09%

Run 2: Report of SReAM — Data Link

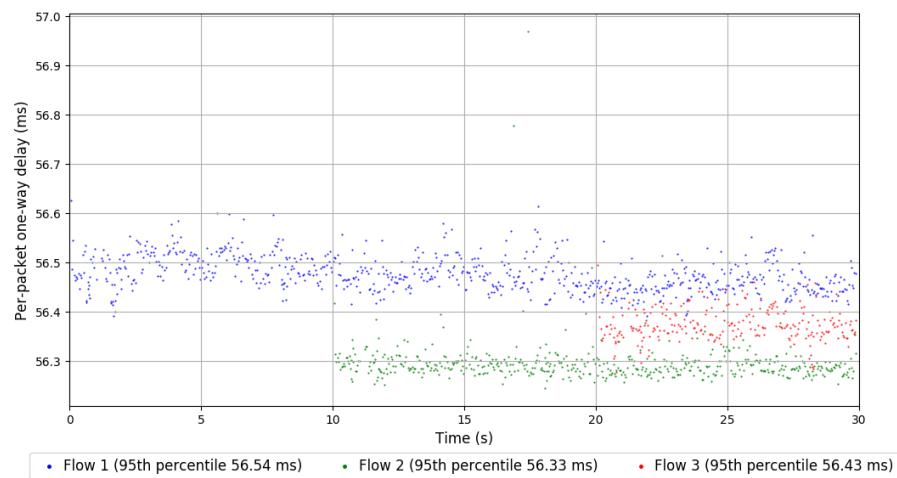
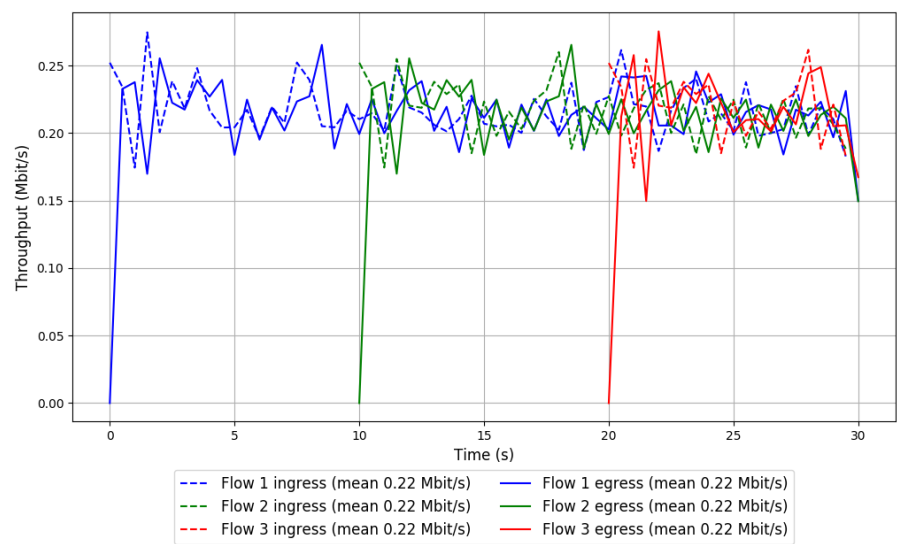


Run 3: Statistics of SReAM

Start at: 2019-09-19 05:29:58  
End at: 2019-09-19 05:30:28  
Local clock offset: -0.498 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-09-19 10:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 56.524 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.541 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.334 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.431 ms  
Loss rate: 1.09%

Run 3: Report of SReAM — Data Link



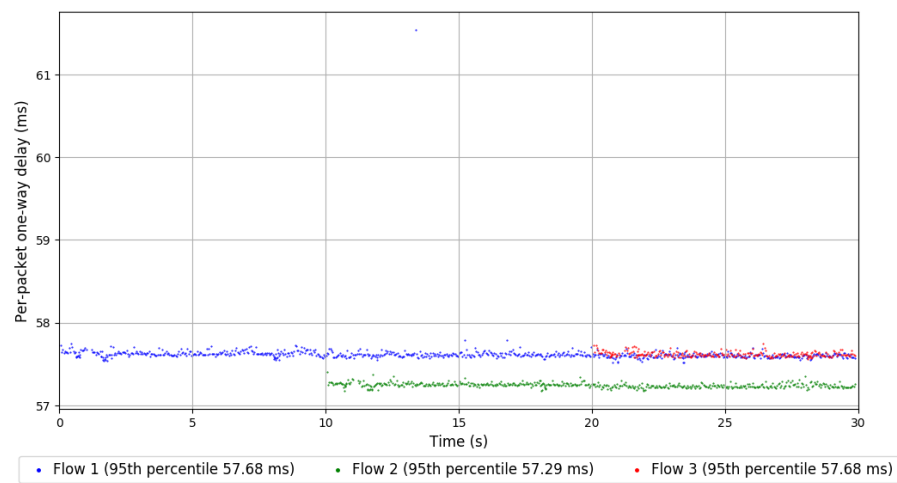
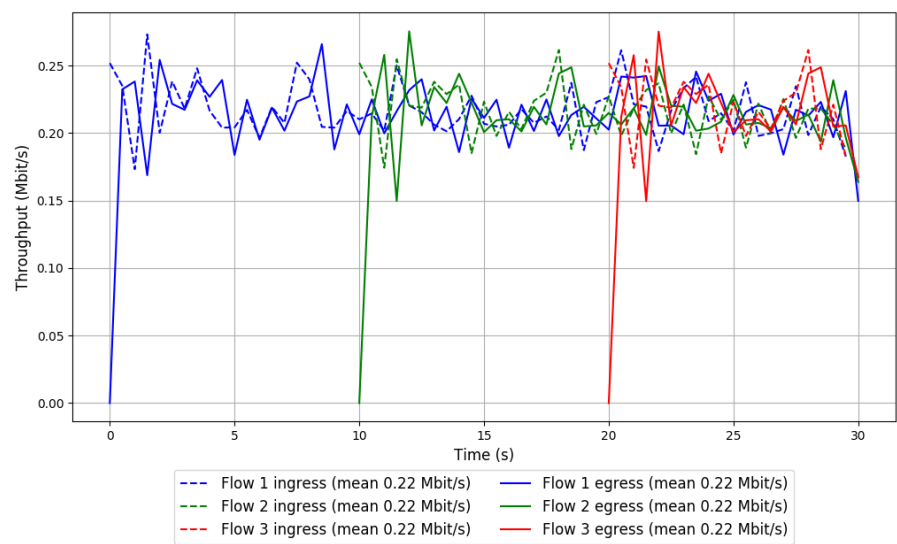


Run 4: Statistics of SReAM

Start at: 2019-09-19 06:11:09  
End at: 2019-09-19 06:11:39  
Local clock offset: 0.155 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-09-19 10:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 57.669 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.678 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.291 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.679 ms  
Loss rate: 1.09%

Run 4: Report of SCReAM — Data Link

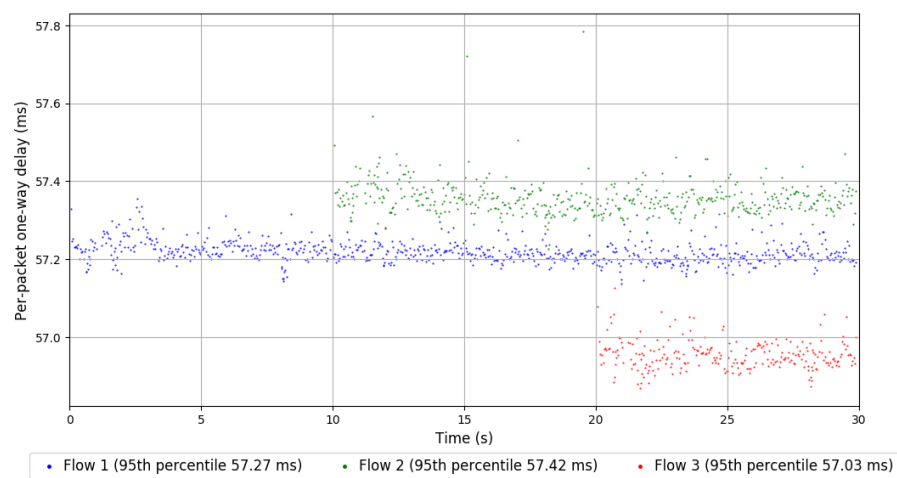
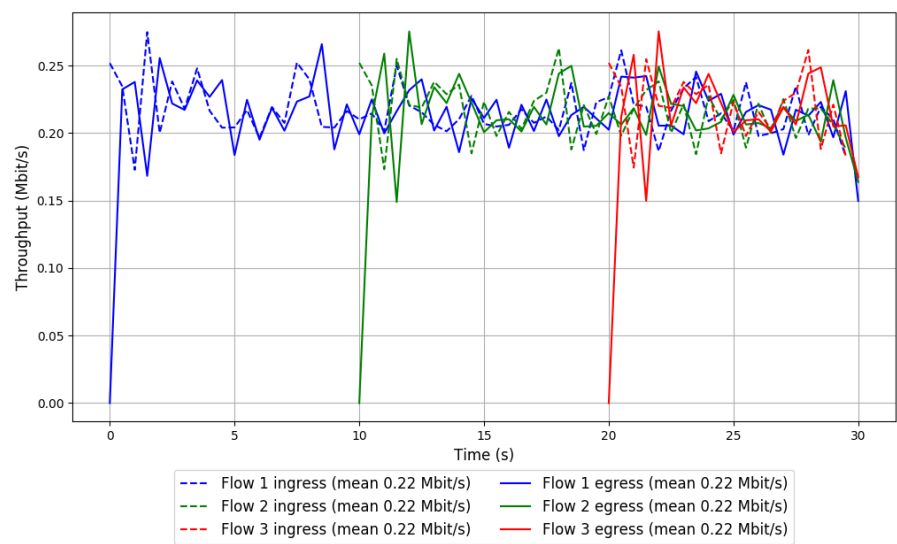


Run 5: Statistics of SReAM

Start at: 2019-09-19 06:52:11  
End at: 2019-09-19 06:52:41  
Local clock offset: -0.093 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-09-19 10:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 57.390 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.269 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.423 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.027 ms  
Loss rate: 1.09%

Run 5: Report of SReAM — Data Link

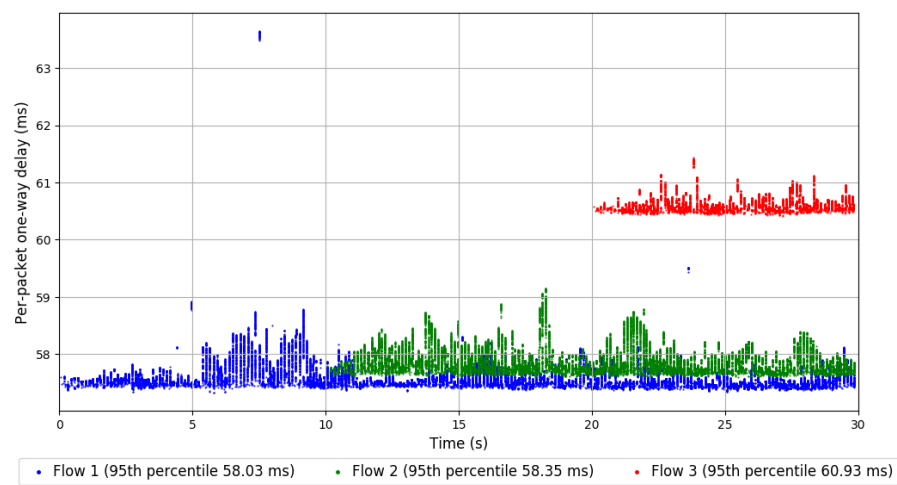
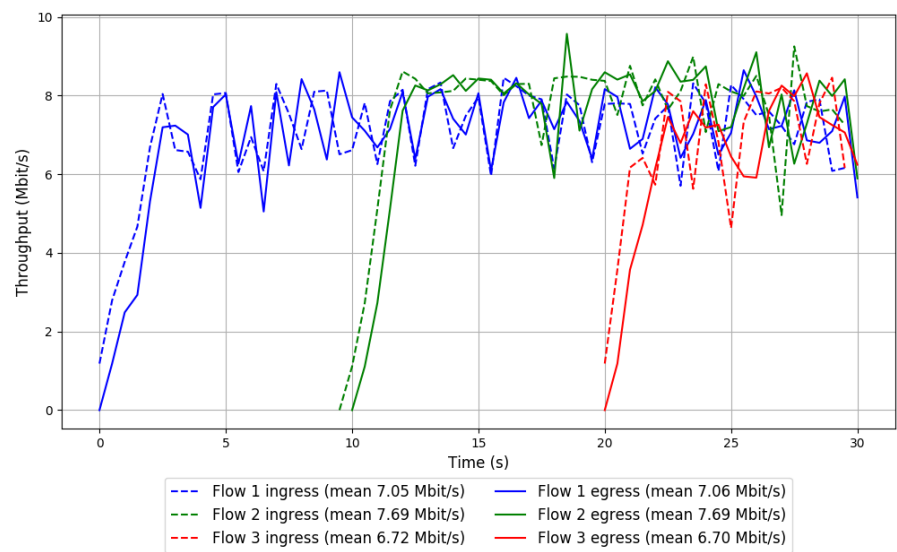


Run 1: Statistics of Sprout

Start at: 2019-09-19 04:35:46  
End at: 2019-09-19 04:36:16  
Local clock offset: 0.272 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-09-19 10:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.36 Mbit/s  
95th percentile per-packet one-way delay: 60.635 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 7.06 Mbit/s  
95th percentile per-packet one-way delay: 58.033 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 7.69 Mbit/s  
95th percentile per-packet one-way delay: 58.351 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 6.70 Mbit/s  
95th percentile per-packet one-way delay: 60.928 ms  
Loss rate: 1.49%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-09-19 05:16:44

End at: 2019-09-19 05:17:14

Local clock offset: 0.148 ms

Remote clock offset: -0.43 ms

# Below is generated by plot.py at 2019-09-19 10:20:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 60.895 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 58.323 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 58.252 ms

Loss rate: 0.58%

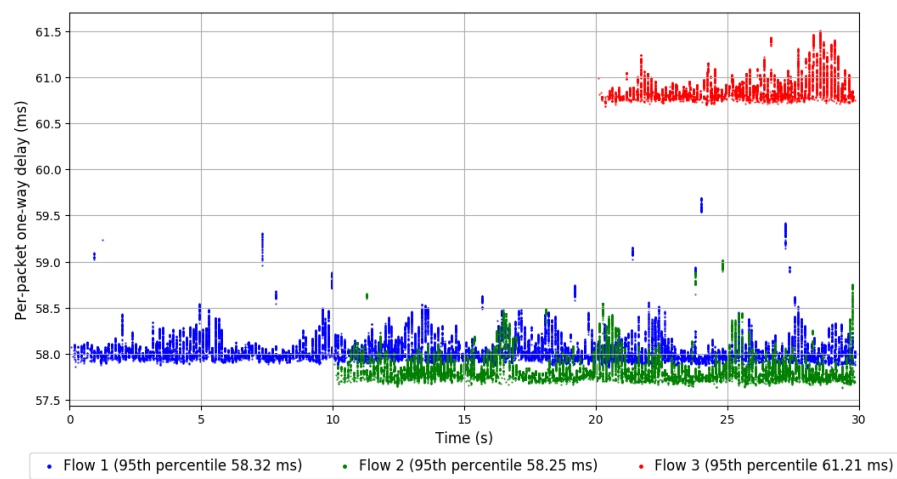
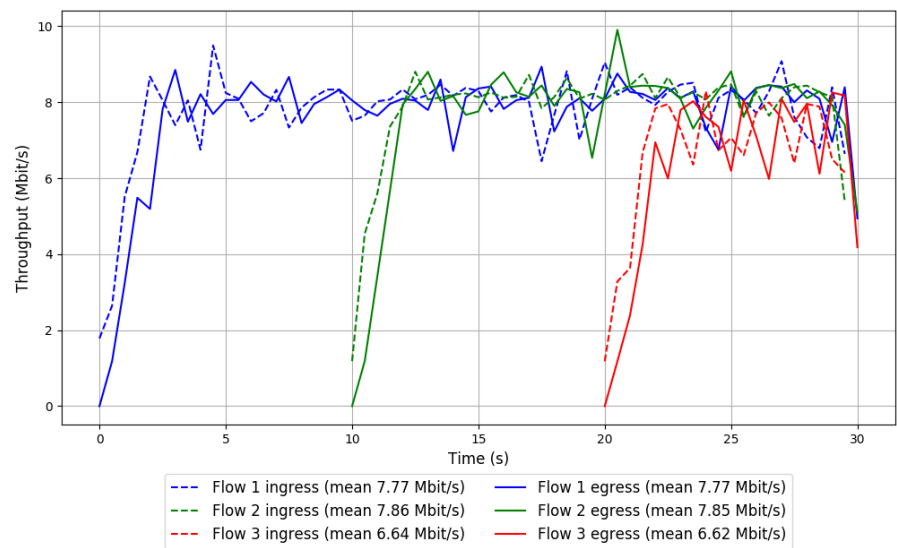
-- Flow 3:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 61.211 ms

Loss rate: 1.50%

Run 2: Report of Sprout — Data Link



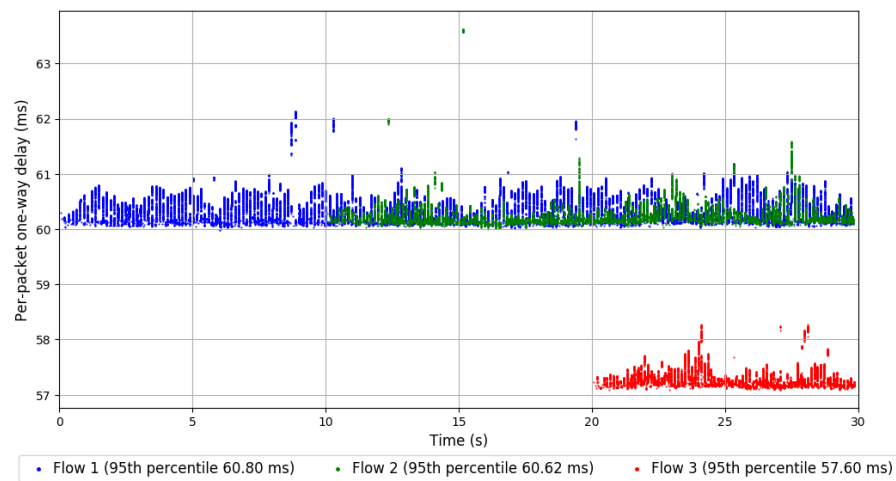
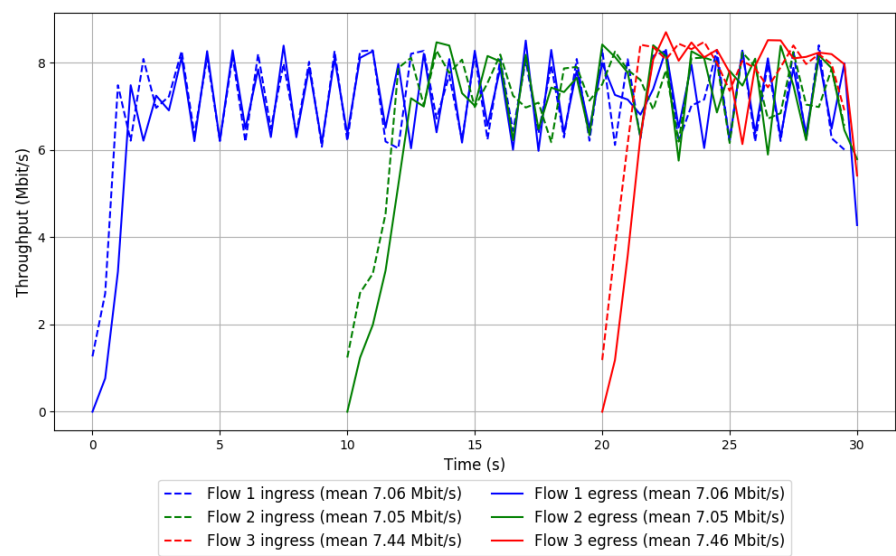


### Run 3: Statistics of Sprout

Start at: 2019-09-19 05:58:01  
End at: 2019-09-19 05:58:31  
Local clock offset: -0.211 ms  
Remote clock offset: -0.128 ms

```
# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.19 Mbit/s
95th percentile per-packet one-way delay: 60.733 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 60.798 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 60.619 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 57.604 ms
Loss rate: 1.02%
```

Run 3: Report of Sprout — Data Link

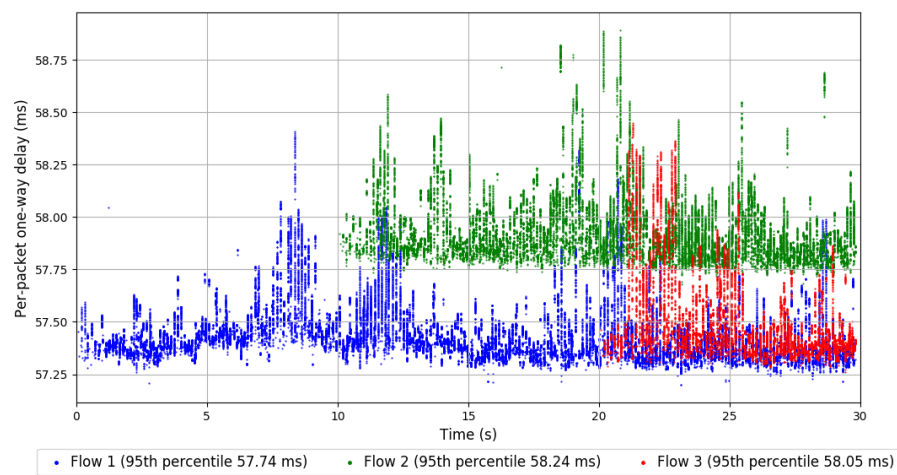
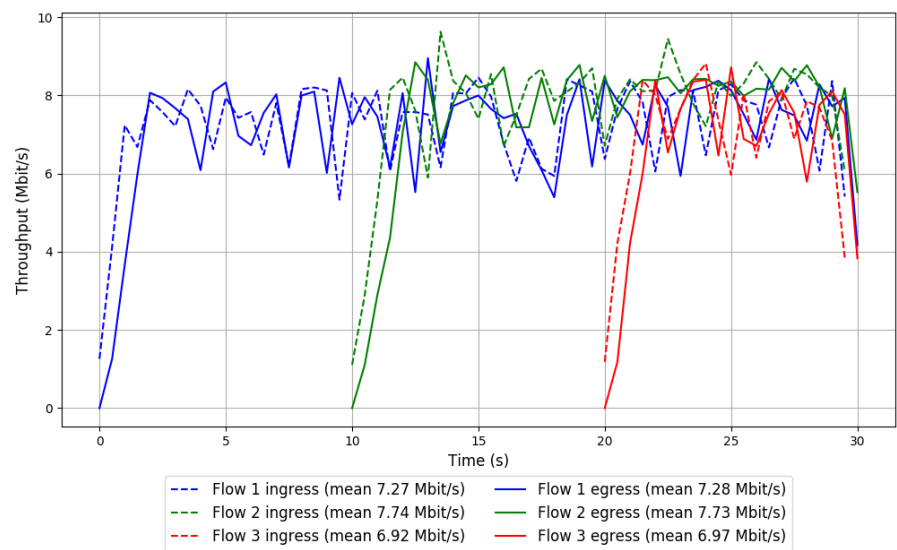


#### Run 4: Statistics of Sprout

Start at: 2019-09-19 06:39:03  
End at: 2019-09-19 06:39:33  
Local clock offset: 0.173 ms  
Remote clock offset: -0.195 ms

```
# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 58.096 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 57.743 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 58.244 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 58.047 ms
Loss rate: 0.48%
```

Run 4: Report of Sprout — Data Link

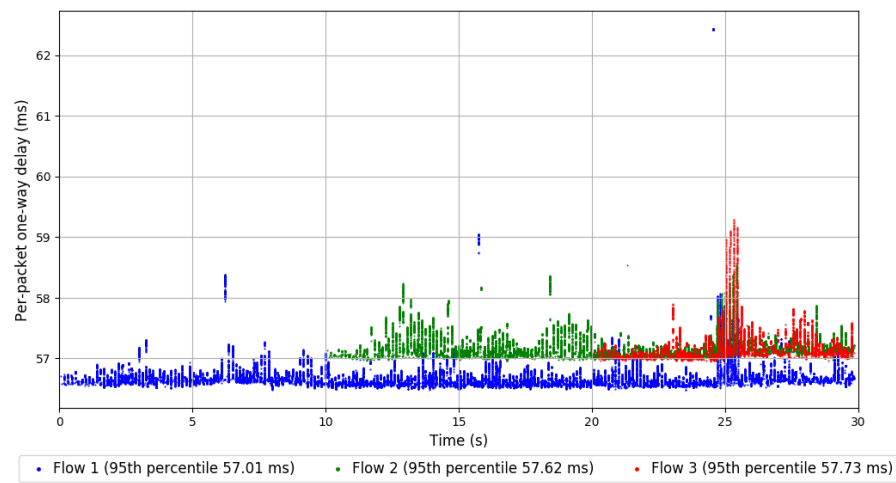
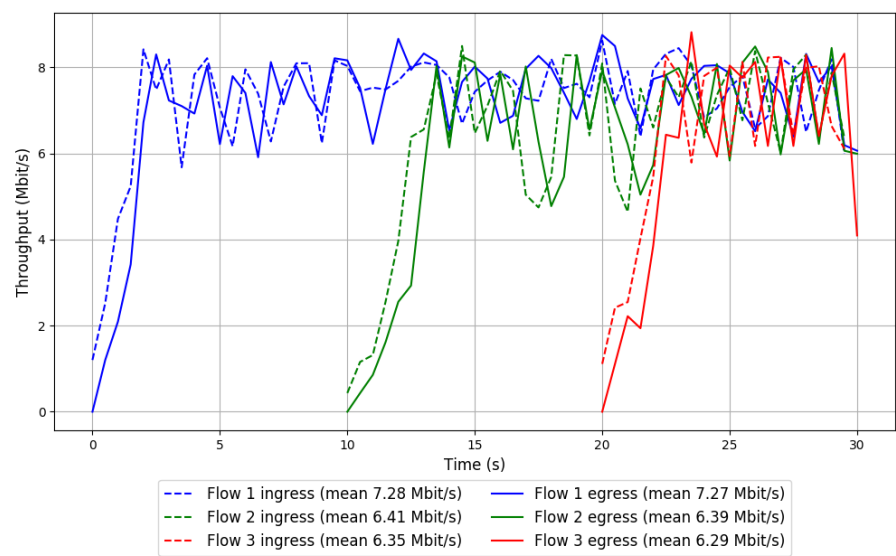


Run 5: Statistics of Sprout

Start at: 2019-09-19 07:20:11  
End at: 2019-09-19 07:20:41  
Local clock offset: -0.413 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-09-19 10:20:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.57 Mbit/s  
95th percentile per-packet one-way delay: 57.494 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 7.27 Mbit/s  
95th percentile per-packet one-way delay: 57.008 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 6.39 Mbit/s  
95th percentile per-packet one-way delay: 57.617 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 6.29 Mbit/s  
95th percentile per-packet one-way delay: 57.725 ms  
Loss rate: 1.89%

Run 5: Report of Sprout — Data Link

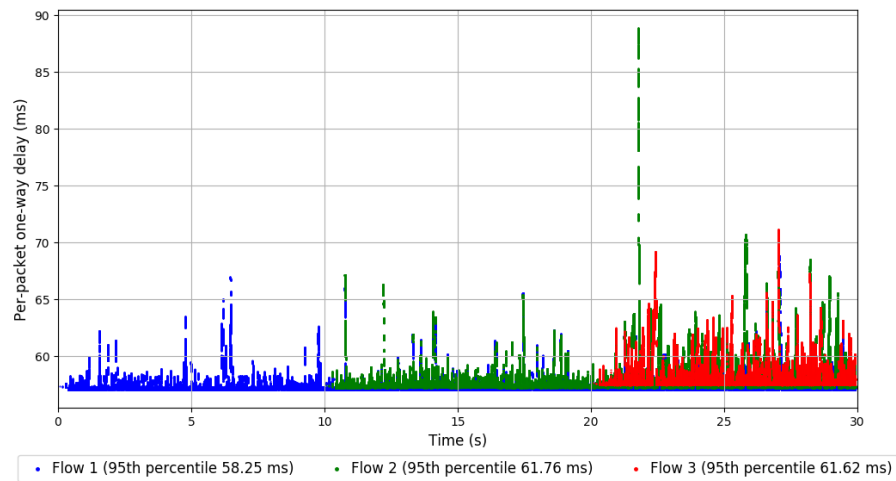
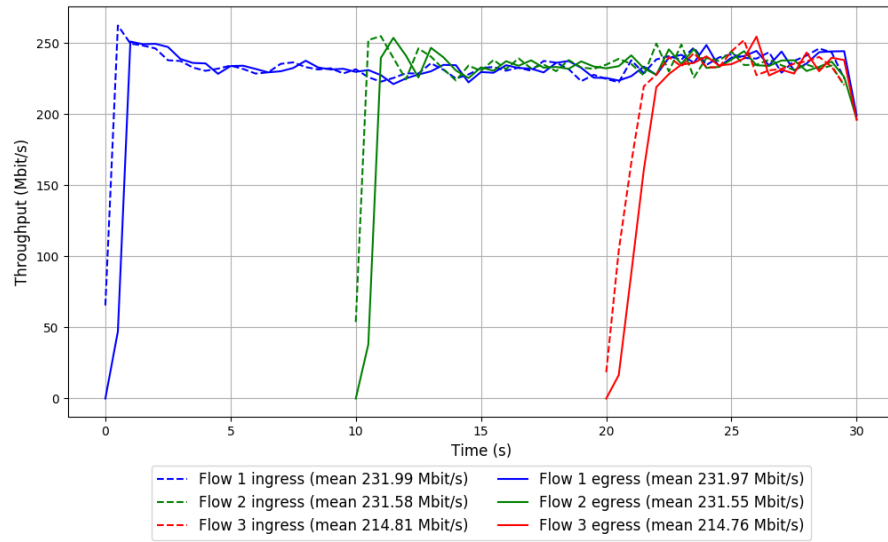


Run 1: Statistics of TaoVA-100x

Start at: 2019-09-19 04:37:00  
End at: 2019-09-19 04:37:30  
Local clock offset: 0.128 ms  
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-09-19 10:25:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 456.65 Mbit/s  
95th percentile per-packet one-way delay: 60.297 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 231.97 Mbit/s  
95th percentile per-packet one-way delay: 58.250 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 231.55 Mbit/s  
95th percentile per-packet one-way delay: 61.758 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 214.76 Mbit/s  
95th percentile per-packet one-way delay: 61.622 ms  
Loss rate: 1.17%

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



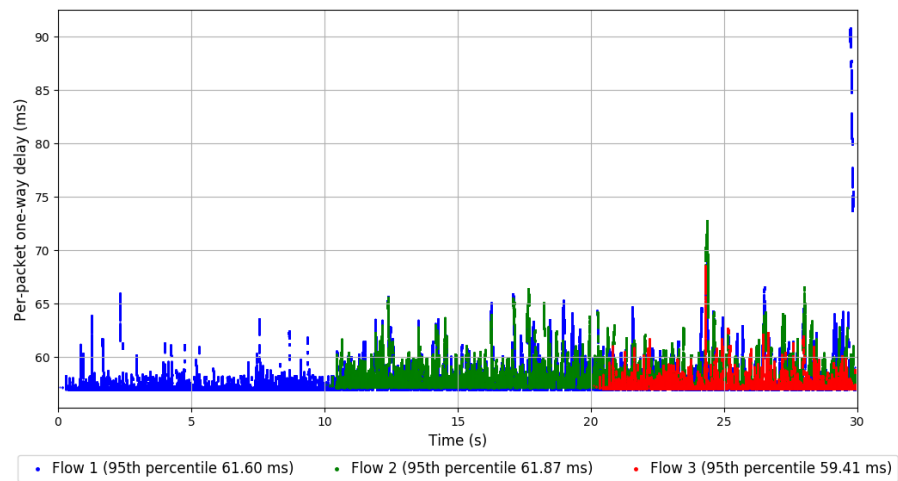
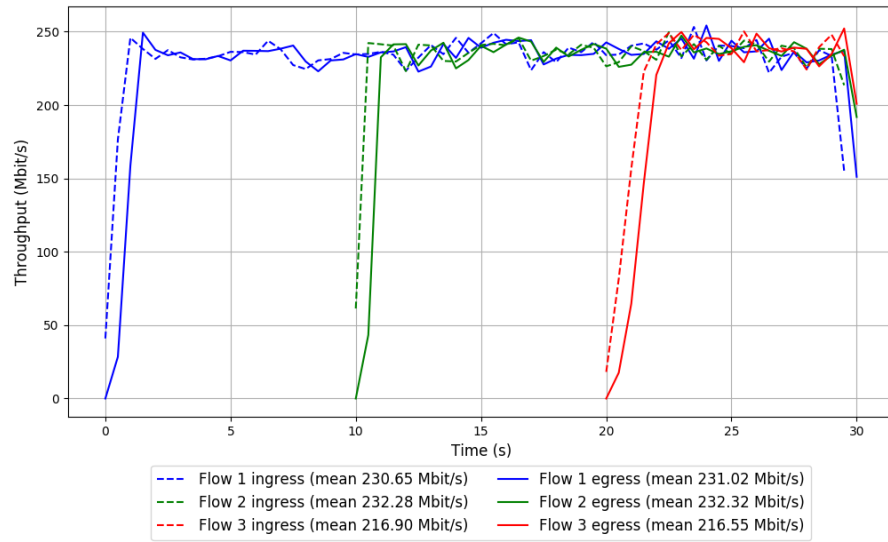


Run 2: Statistics of TaoVA-100x

Start at: 2019-09-19 05:17:57  
End at: 2019-09-19 05:18:27  
Local clock offset: 0.098 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-09-19 10:25:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 456.70 Mbit/s  
95th percentile per-packet one-way delay: 61.417 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 231.02 Mbit/s  
95th percentile per-packet one-way delay: 61.600 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 232.32 Mbit/s  
95th percentile per-packet one-way delay: 61.867 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 216.55 Mbit/s  
95th percentile per-packet one-way delay: 59.406 ms  
Loss rate: 1.32%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-19 05:59:14

End at: 2019-09-19 05:59:44

Local clock offset: 0.198 ms

Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-09-19 10:25:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 438.79 Mbit/s

95th percentile per-packet one-way delay: 61.117 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 228.49 Mbit/s

95th percentile per-packet one-way delay: 60.991 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 210.09 Mbit/s

95th percentile per-packet one-way delay: 60.785 ms

Loss rate: 0.64%

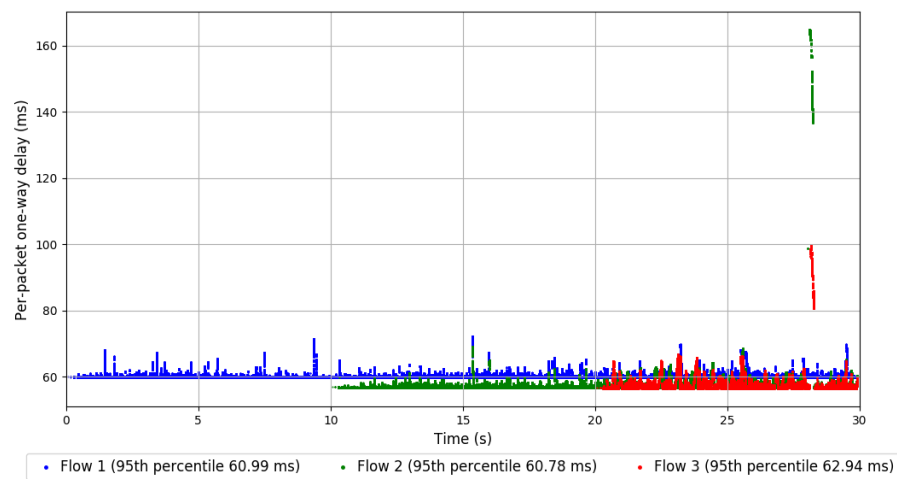
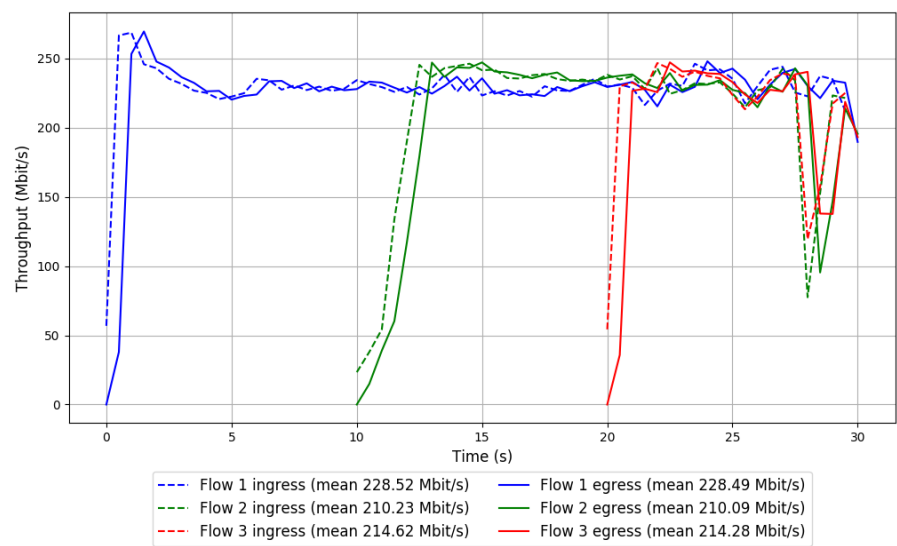
-- Flow 3:

Average throughput: 214.28 Mbit/s

95th percentile per-packet one-way delay: 62.944 ms

Loss rate: 1.31%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-09-19 06:40:17

End at: 2019-09-19 06:40:47

Local clock offset: -0.343 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-09-19 10:25:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 429.02 Mbit/s

95th percentile per-packet one-way delay: 60.077 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 225.70 Mbit/s

95th percentile per-packet one-way delay: 60.393 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 209.51 Mbit/s

95th percentile per-packet one-way delay: 58.319 ms

Loss rate: 0.69%

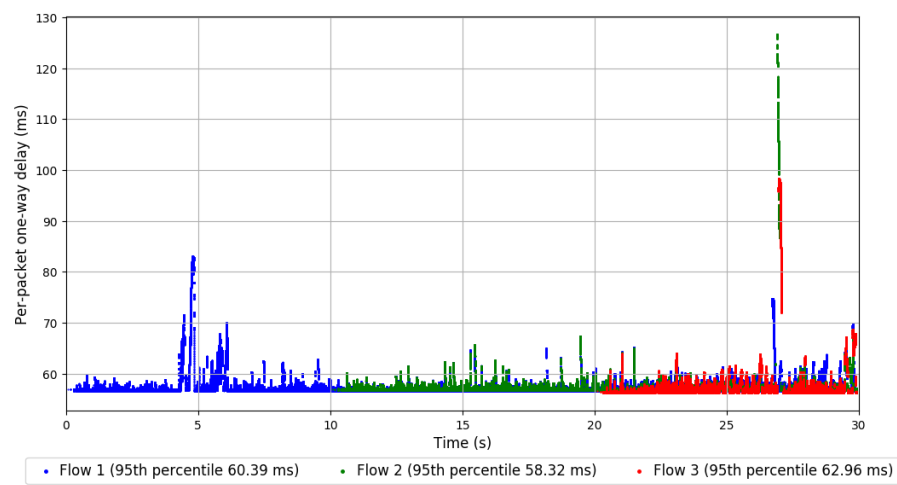
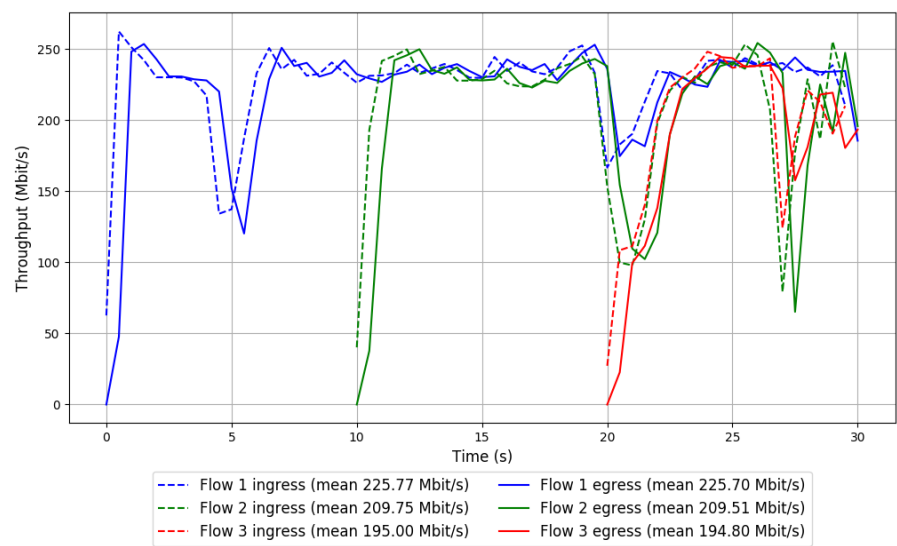
-- Flow 3:

Average throughput: 194.80 Mbit/s

95th percentile per-packet one-way delay: 62.956 ms

Loss rate: 1.25%

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

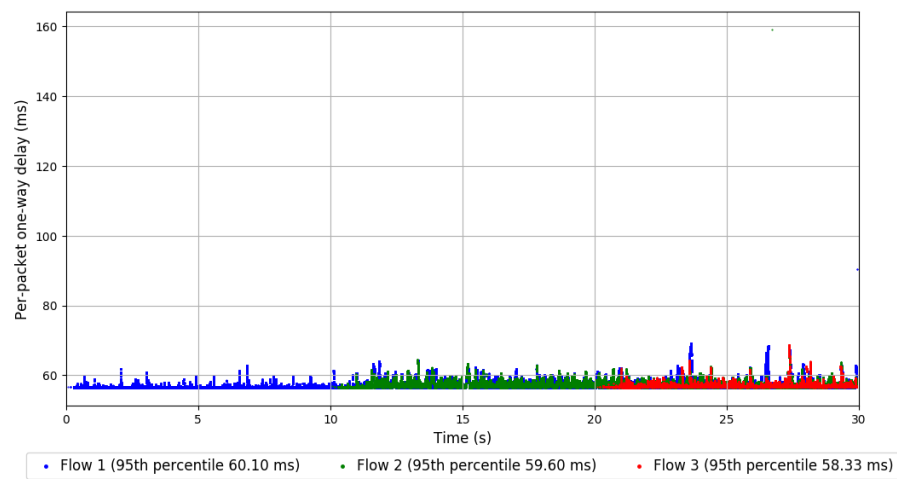
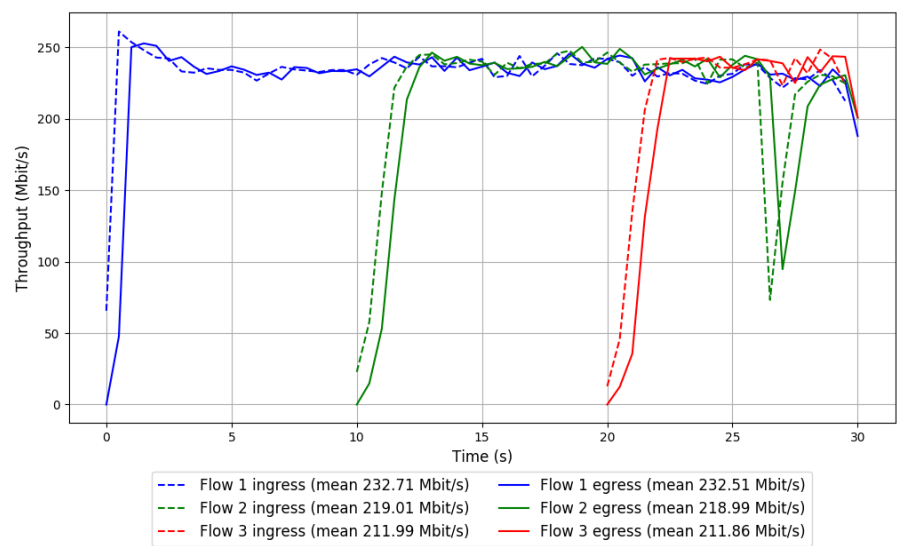


Run 5: Statistics of TaoVA-100x

Start at: 2019-09-19 07:21:25  
End at: 2019-09-19 07:21:55  
Local clock offset: -0.462 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-09-19 10:25:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 447.65 Mbit/s  
95th percentile per-packet one-way delay: 59.736 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 232.51 Mbit/s  
95th percentile per-packet one-way delay: 60.099 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 218.99 Mbit/s  
95th percentile per-packet one-way delay: 59.599 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 211.86 Mbit/s  
95th percentile per-packet one-way delay: 58.328 ms  
Loss rate: 1.22%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-09-19 04:09:02

End at: 2019-09-19 04:09:32

Local clock offset: -0.082 ms

Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-09-19 10:26:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 879.44 Mbit/s

95th percentile per-packet one-way delay: 90.363 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 493.04 Mbit/s

95th percentile per-packet one-way delay: 65.974 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 453.78 Mbit/s

95th percentile per-packet one-way delay: 93.055 ms

Loss rate: 0.62%

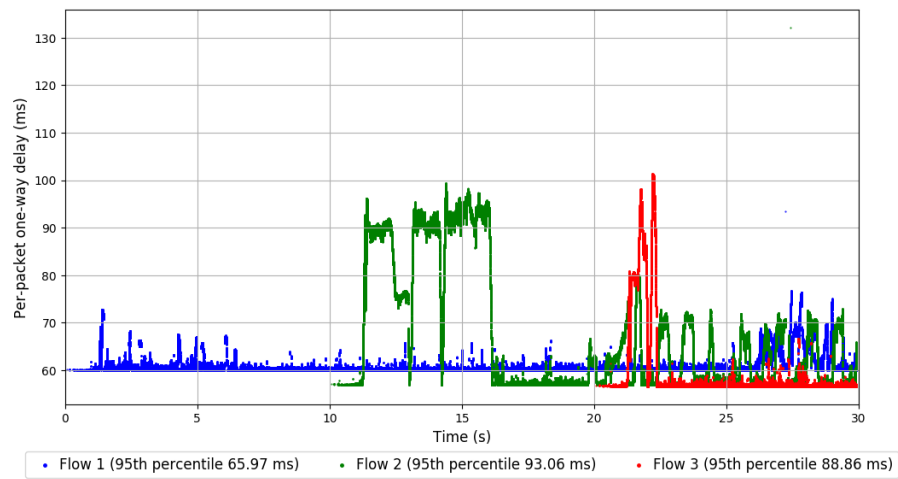
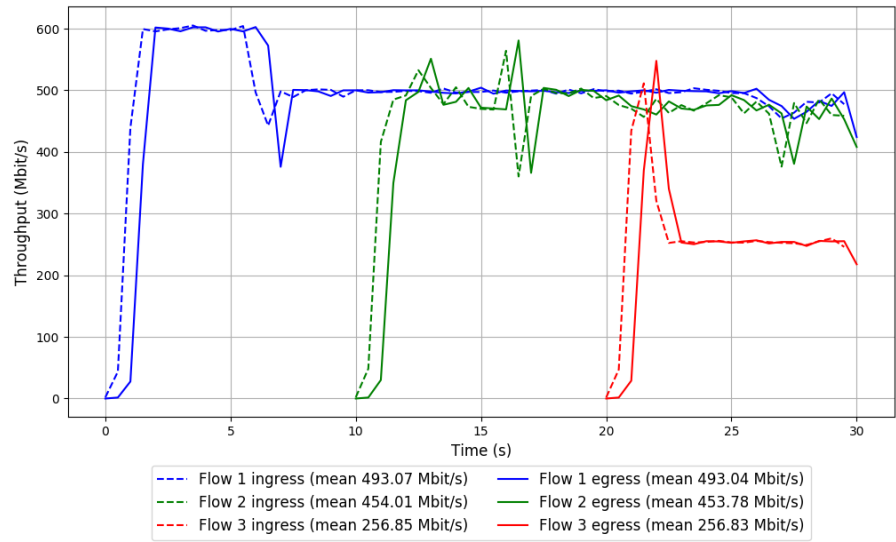
-- Flow 3:

Average throughput: 256.83 Mbit/s

95th percentile per-packet one-way delay: 88.860 ms

Loss rate: 1.15%

# Run 1: Report of TCP Vegas — Data Link

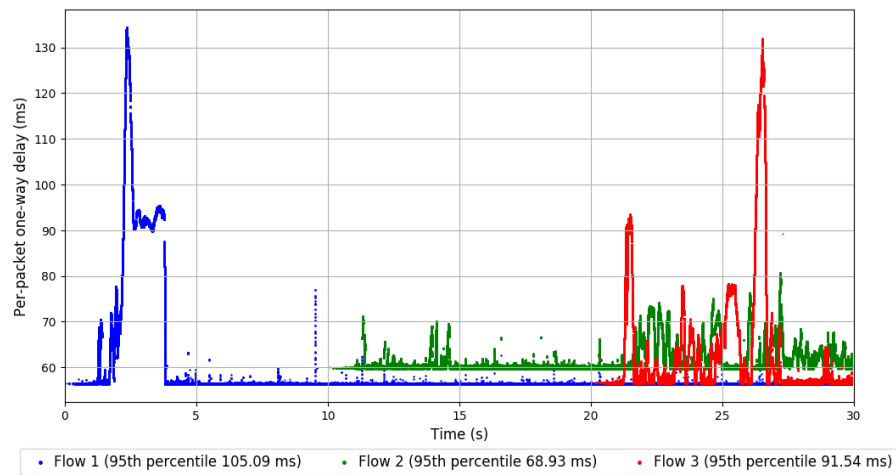
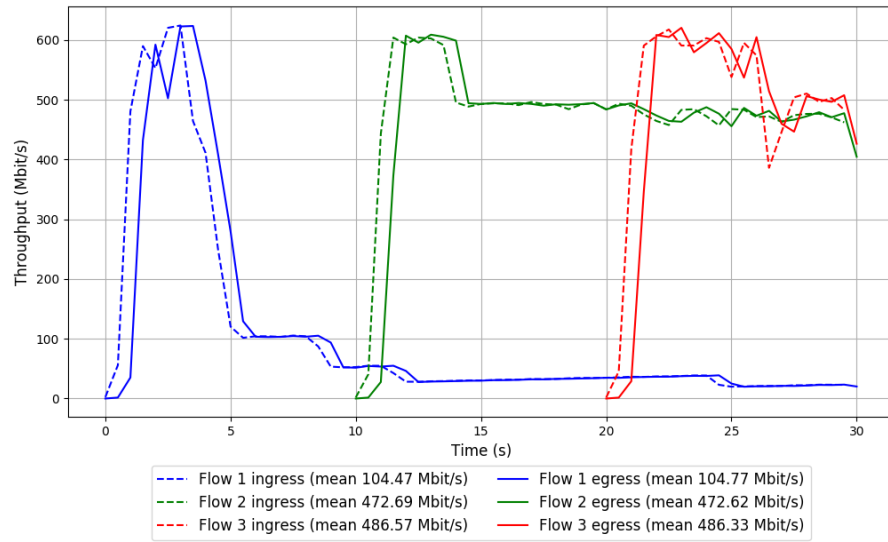


Run 2: Statistics of TCP Vegas

Start at: 2019-09-19 04:50:08  
End at: 2019-09-19 04:50:38  
Local clock offset: -0.446 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-09-19 10:30:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 579.36 Mbit/s  
95th percentile per-packet one-way delay: 91.945 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 104.77 Mbit/s  
95th percentile per-packet one-way delay: 105.091 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 472.62 Mbit/s  
95th percentile per-packet one-way delay: 68.926 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 486.33 Mbit/s  
95th percentile per-packet one-way delay: 91.539 ms  
Loss rate: 1.19%

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

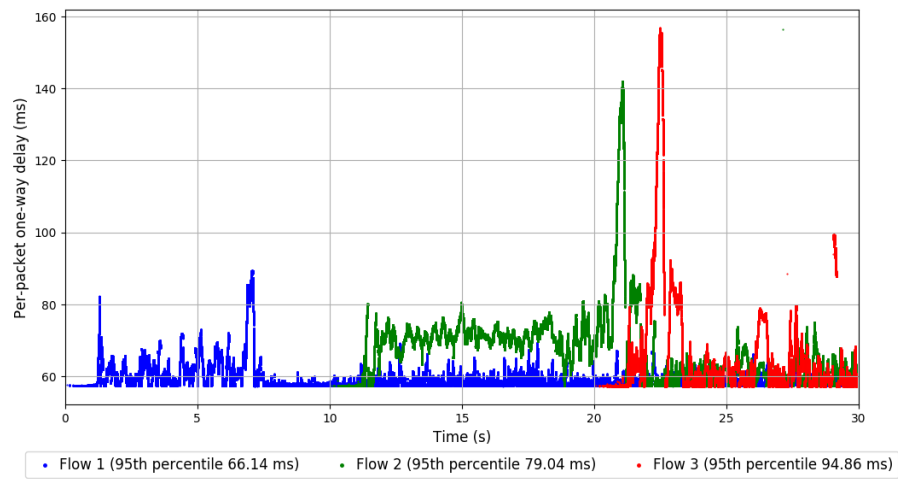
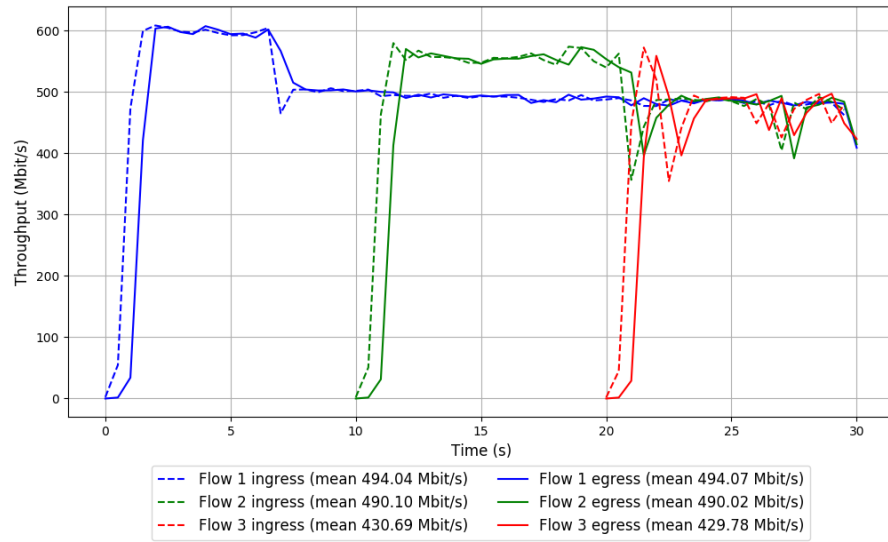


Run 3: Statistics of TCP Vegas

Start at: 2019-09-19 05:31:10  
End at: 2019-09-19 05:31:40  
Local clock offset: 0.093 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-09-19 10:38:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 961.55 Mbit/s  
95th percentile per-packet one-way delay: 77.045 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 494.07 Mbit/s  
95th percentile per-packet one-way delay: 66.135 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 490.02 Mbit/s  
95th percentile per-packet one-way delay: 79.036 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 429.78 Mbit/s  
95th percentile per-packet one-way delay: 94.864 ms  
Loss rate: 1.35%

### Run 3: Report of TCP Vegas — Data Link

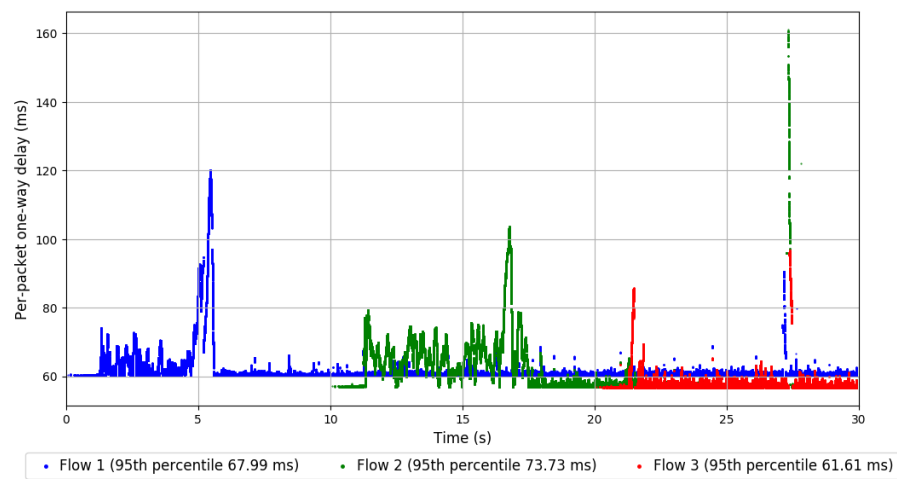
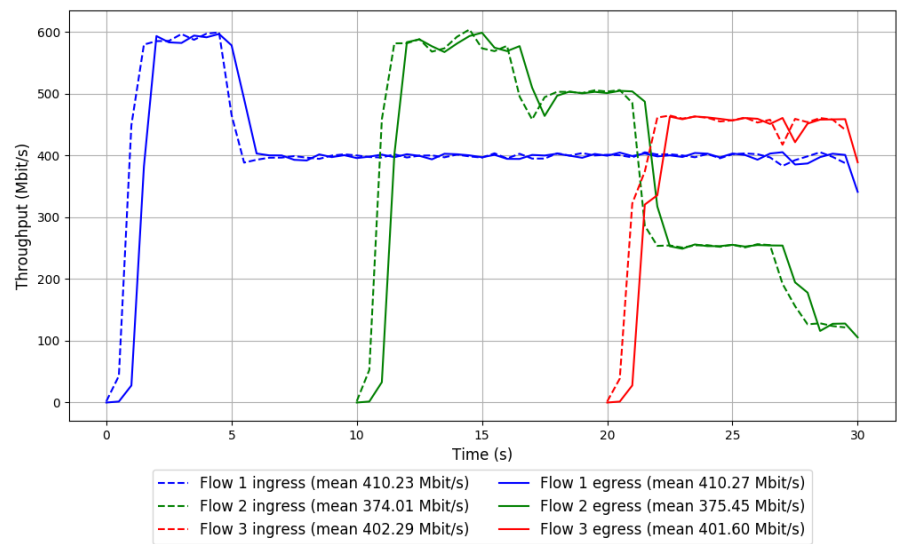


Run 4: Statistics of TCP Vegas

Start at: 2019-09-19 06:12:21  
End at: 2019-09-19 06:12:51  
Local clock offset: -0.079 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-09-19 10:38:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 792.43 Mbit/s  
95th percentile per-packet one-way delay: 71.241 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 410.27 Mbit/s  
95th percentile per-packet one-way delay: 67.991 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 375.45 Mbit/s  
95th percentile per-packet one-way delay: 73.727 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 401.60 Mbit/s  
95th percentile per-packet one-way delay: 61.613 ms  
Loss rate: 1.31%

Run 4: Report of TCP Vegas — Data Link



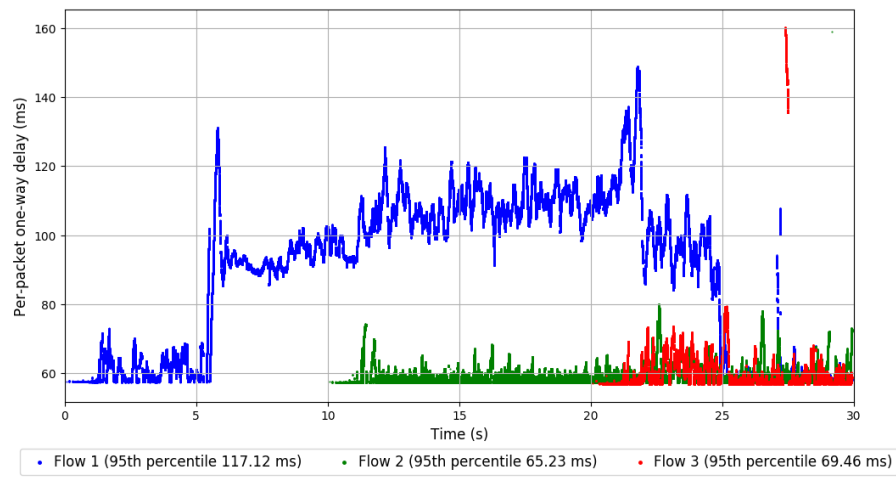
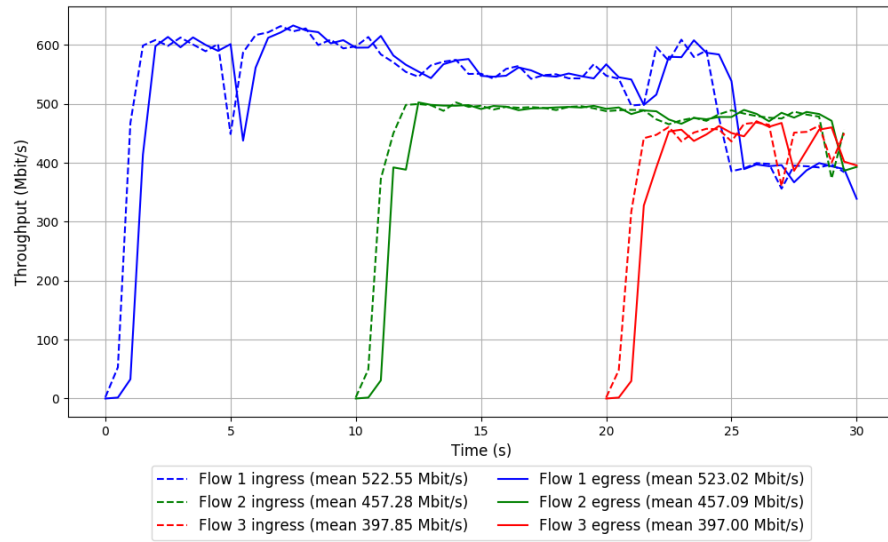


Run 5: Statistics of TCP Vegas

Start at: 2019-09-19 06:53:23  
End at: 2019-09-19 06:53:53  
Local clock offset: -0.027 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-09-19 10:41:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 957.91 Mbit/s  
95th percentile per-packet one-way delay: 114.034 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 523.02 Mbit/s  
95th percentile per-packet one-way delay: 117.125 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 457.09 Mbit/s  
95th percentile per-packet one-way delay: 65.226 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 397.00 Mbit/s  
95th percentile per-packet one-way delay: 69.458 ms  
Loss rate: 1.36%

# Run 5: Report of TCP Vegas — Data Link

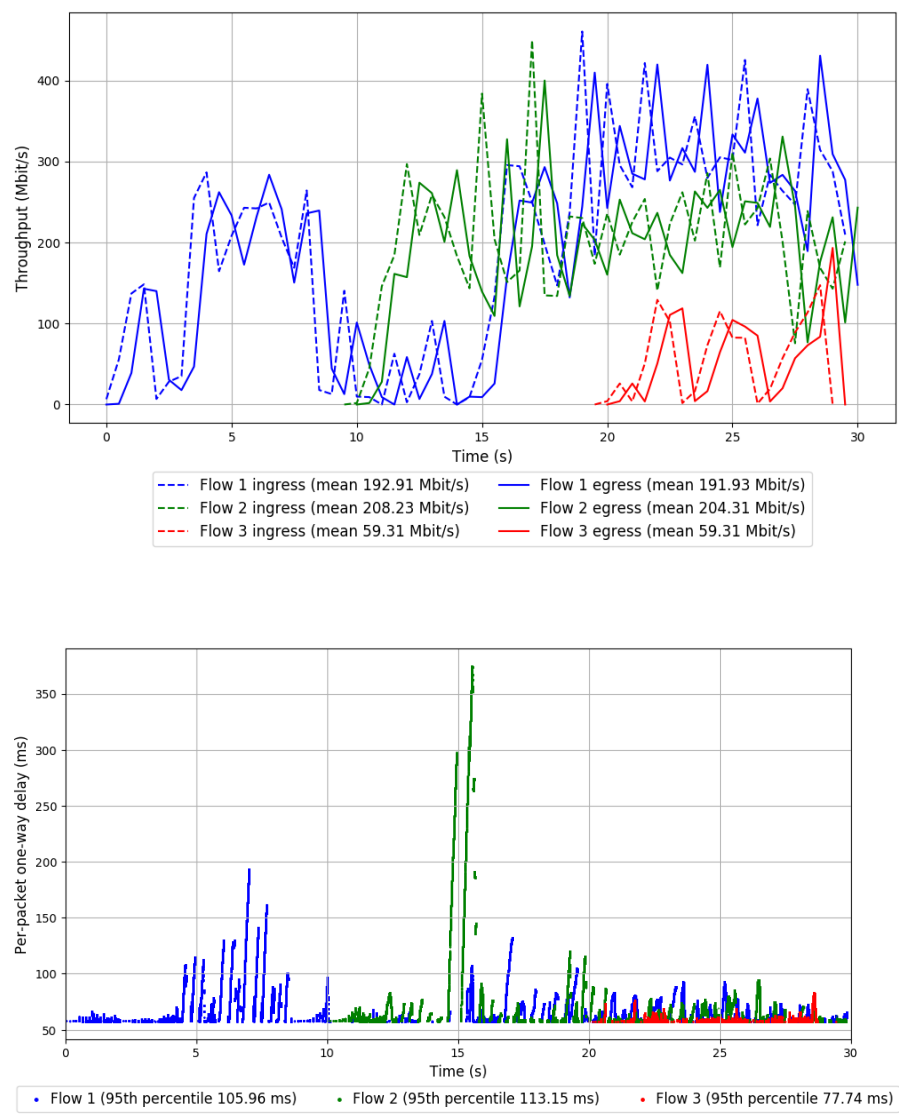


Run 1: Statistics of Verus

Start at: 2019-09-19 04:01:24  
End at: 2019-09-19 04:01:54  
Local clock offset: -0.068 ms  
Remote clock offset: -0.713 ms

# Below is generated by plot.py at 2019-09-19 10:41:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 346.49 Mbit/s  
95th percentile per-packet one-way delay: 105.308 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 191.93 Mbit/s  
95th percentile per-packet one-way delay: 105.957 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 204.31 Mbit/s  
95th percentile per-packet one-way delay: 113.153 ms  
Loss rate: 1.88%  
-- Flow 3:  
Average throughput: 59.31 Mbit/s  
95th percentile per-packet one-way delay: 77.740 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

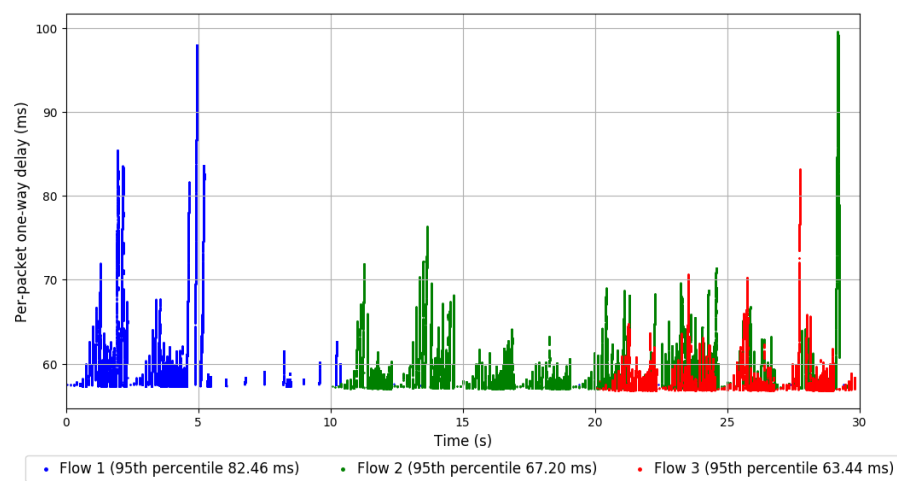
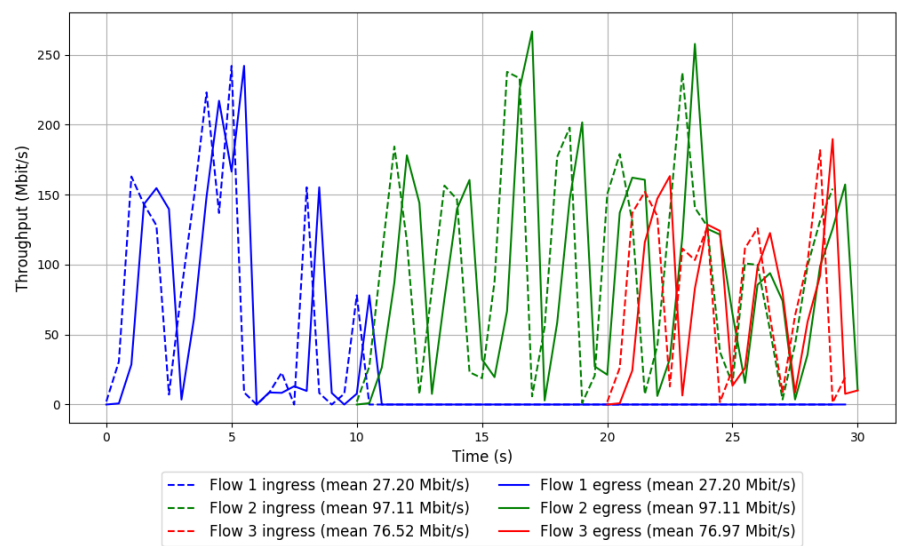


Run 2: Statistics of Verus

Start at: 2019-09-19 04:42:44  
End at: 2019-09-19 04:43:14  
Local clock offset: -0.03 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2019-09-19 10:41:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 115.48 Mbit/s  
95th percentile per-packet one-way delay: 70.134 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 27.20 Mbit/s  
95th percentile per-packet one-way delay: 82.456 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 97.11 Mbit/s  
95th percentile per-packet one-way delay: 67.202 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 76.97 Mbit/s  
95th percentile per-packet one-way delay: 63.441 ms  
Loss rate: 0.61%

Run 2: Report of Verus — Data Link

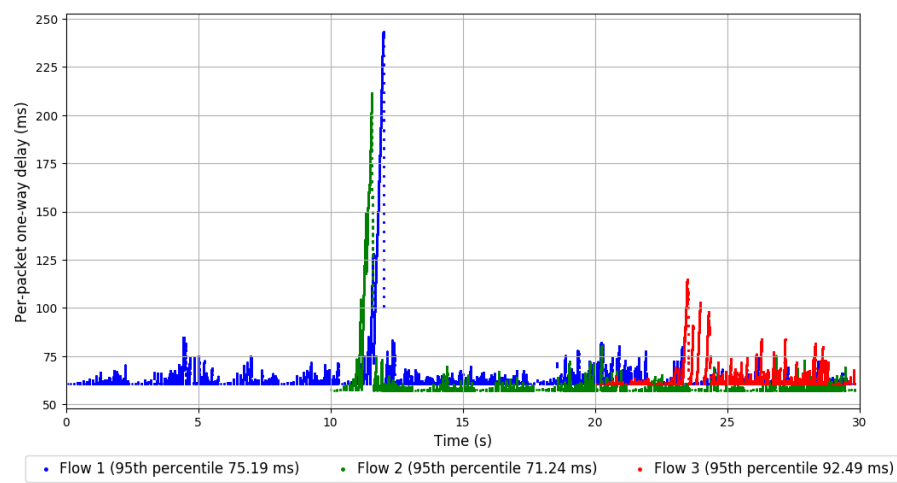
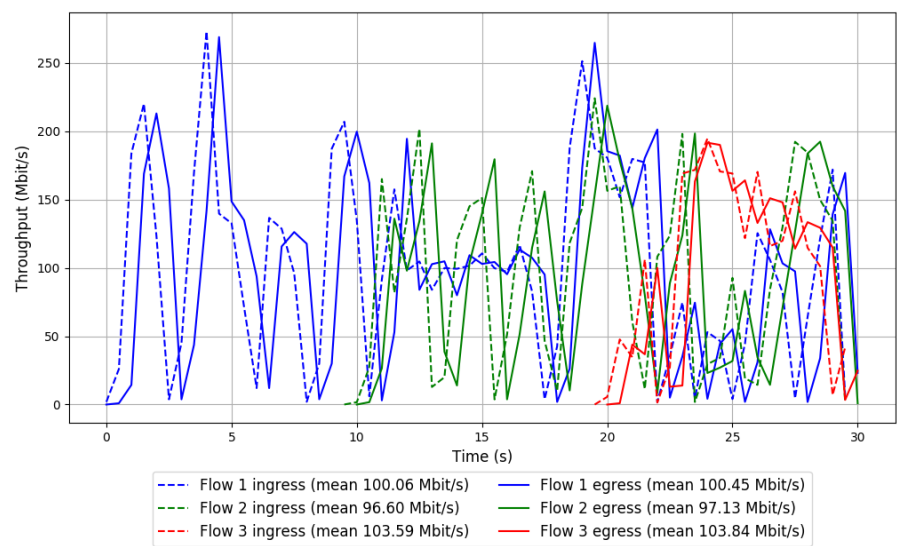


Run 3: Statistics of Verus

Start at: 2019-09-19 05:23:40  
End at: 2019-09-19 05:24:10  
Local clock offset: 0.1 ms  
Remote clock offset: -0.413 ms

# Below is generated by plot.py at 2019-09-19 10:41:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 199.07 Mbit/s  
95th percentile per-packet one-way delay: 79.642 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 100.45 Mbit/s  
95th percentile per-packet one-way delay: 75.189 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 97.13 Mbit/s  
95th percentile per-packet one-way delay: 71.242 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 103.84 Mbit/s  
95th percentile per-packet one-way delay: 92.494 ms  
Loss rate: 1.01%

Run 3: Report of Verus — Data Link



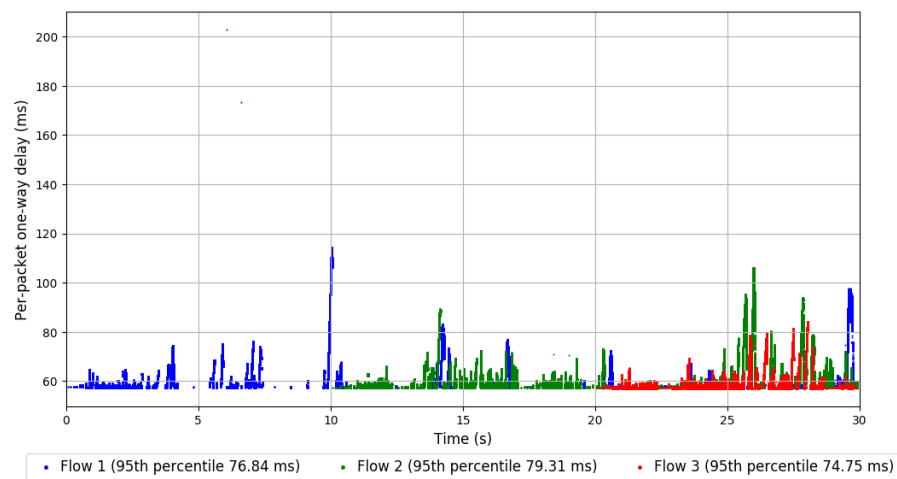
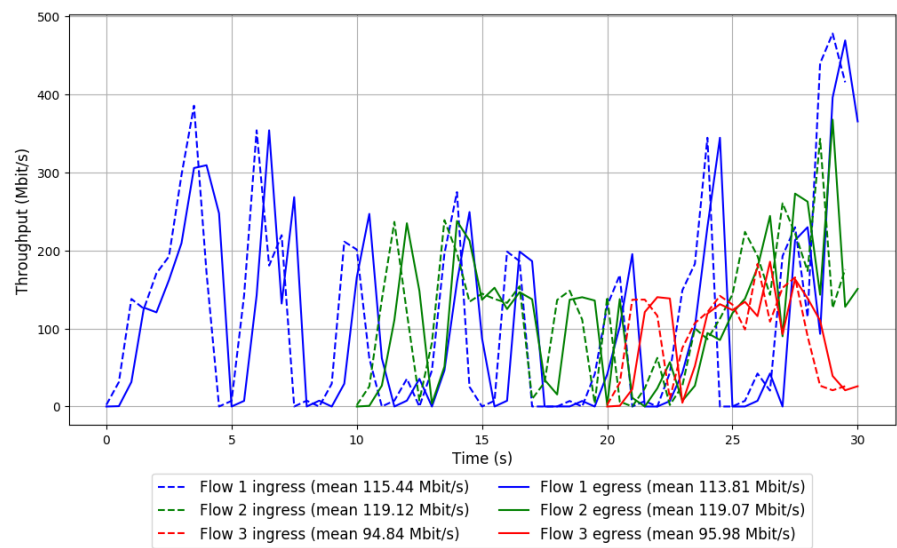


Run 4: Statistics of Verus

Start at: 2019-09-19 06:04:53  
End at: 2019-09-19 06:05:23  
Local clock offset: -0.338 ms  
Remote clock offset: -0.667 ms

# Below is generated by plot.py at 2019-09-19 10:41:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 224.45 Mbit/s  
95th percentile per-packet one-way delay: 76.626 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 113.81 Mbit/s  
95th percentile per-packet one-way delay: 76.837 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 119.07 Mbit/s  
95th percentile per-packet one-way delay: 79.312 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 95.98 Mbit/s  
95th percentile per-packet one-way delay: 74.745 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-09-19 06:45:56

End at: 2019-09-19 06:46:26

Local clock offset: -0.1 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-09-19 10:41:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 158.41 Mbit/s

95th percentile per-packet one-way delay: 73.169 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 105.63 Mbit/s

95th percentile per-packet one-way delay: 75.564 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 92.763 ms

Loss rate: 0.04%

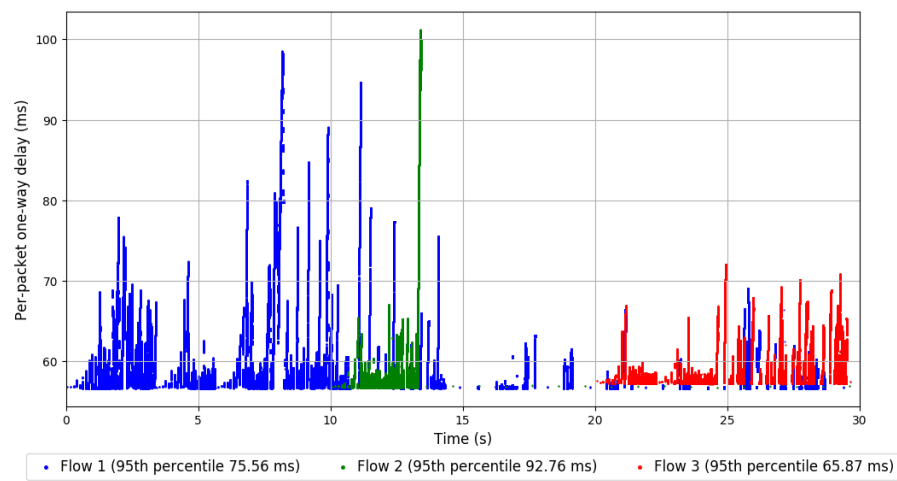
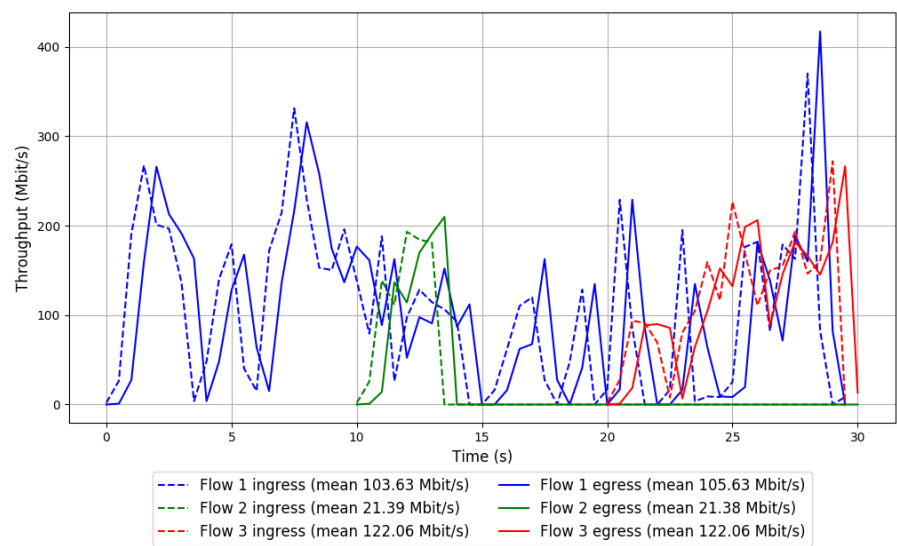
-- Flow 3:

Average throughput: 122.06 Mbit/s

95th percentile per-packet one-way delay: 65.872 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-19 04:27:57

End at: 2019-09-19 04:28:27

Local clock offset: -0.252 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-09-19 10:41:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 543.98 Mbit/s

95th percentile per-packet one-way delay: 95.963 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 304.83 Mbit/s

95th percentile per-packet one-way delay: 82.219 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 286.43 Mbit/s

95th percentile per-packet one-way delay: 157.156 ms

Loss rate: 0.71%

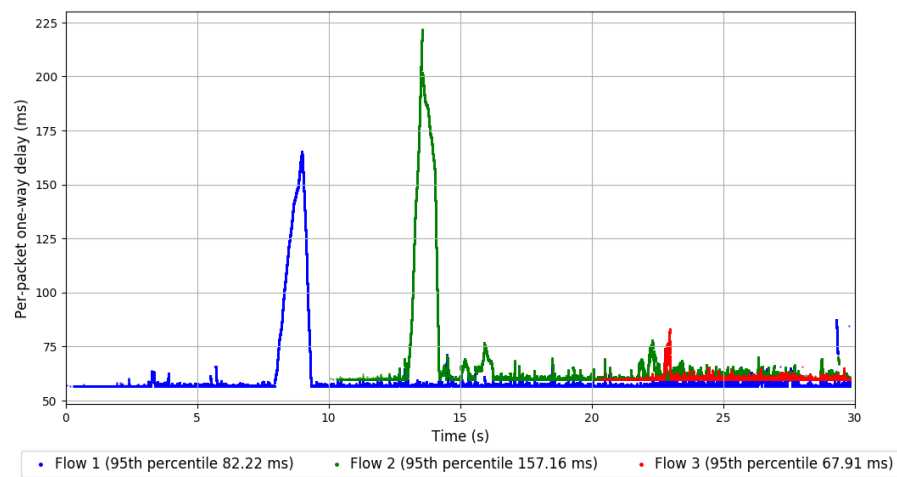
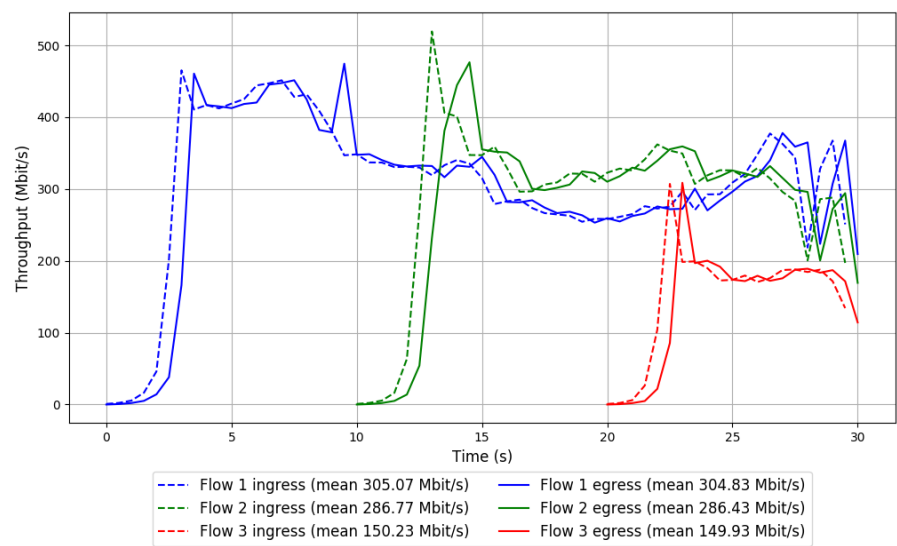
-- Flow 3:

Average throughput: 149.93 Mbit/s

95th percentile per-packet one-way delay: 67.907 ms

Loss rate: 1.40%

Run 1: Report of PCC-Vivace — Data Link

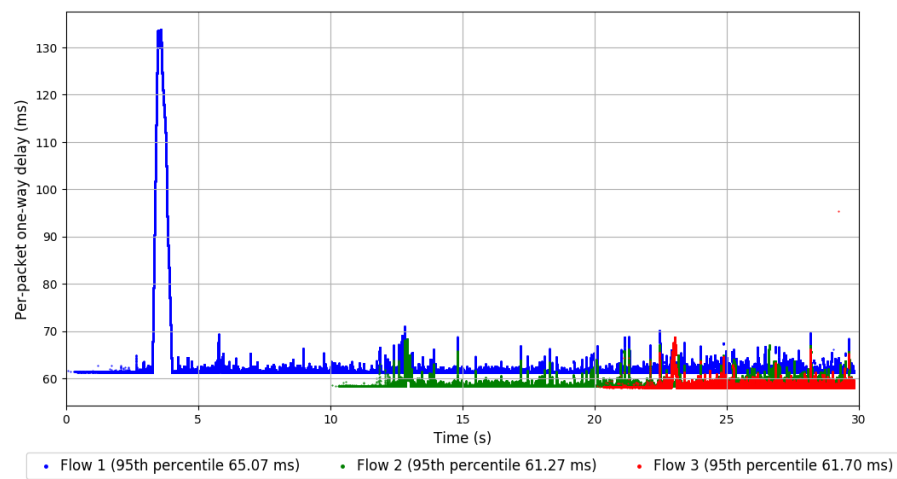
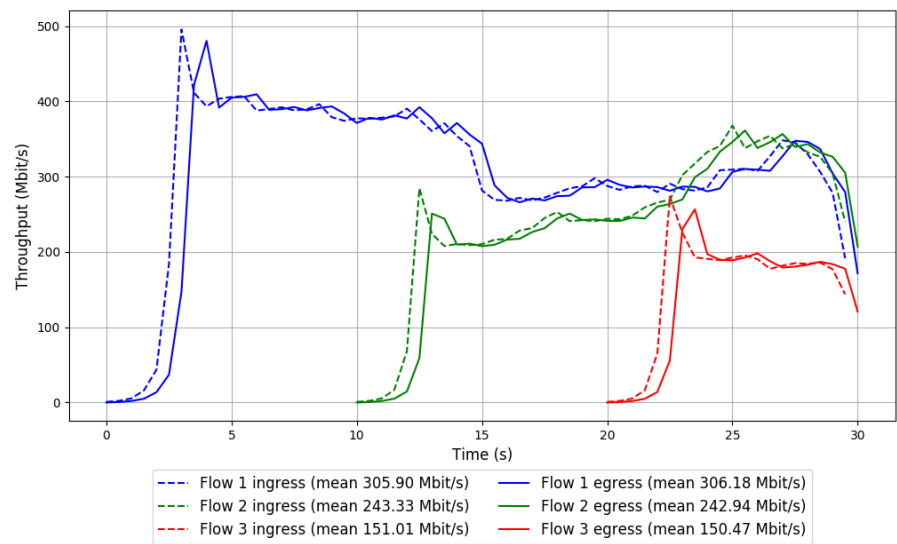


Run 2: Statistics of PCC-Vivace

Start at: 2019-09-19 05:08:50  
End at: 2019-09-19 05:09:20  
Local clock offset: 0.158 ms  
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2019-09-19 10:41:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 516.65 Mbit/s  
95th percentile per-packet one-way delay: 63.481 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 306.18 Mbit/s  
95th percentile per-packet one-way delay: 65.066 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 242.94 Mbit/s  
95th percentile per-packet one-way delay: 61.267 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 150.47 Mbit/s  
95th percentile per-packet one-way delay: 61.698 ms  
Loss rate: 1.51%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-09-19 05:50:10

End at: 2019-09-19 05:50:40

Local clock offset: -0.469 ms

Remote clock offset: 0.773 ms

# Below is generated by plot.py at 2019-09-19 10:41:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 436.88 Mbit/s

95th percentile per-packet one-way delay: 59.031 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 253.61 Mbit/s

95th percentile per-packet one-way delay: 56.690 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 189.79 Mbit/s

95th percentile per-packet one-way delay: 57.032 ms

Loss rate: 0.44%

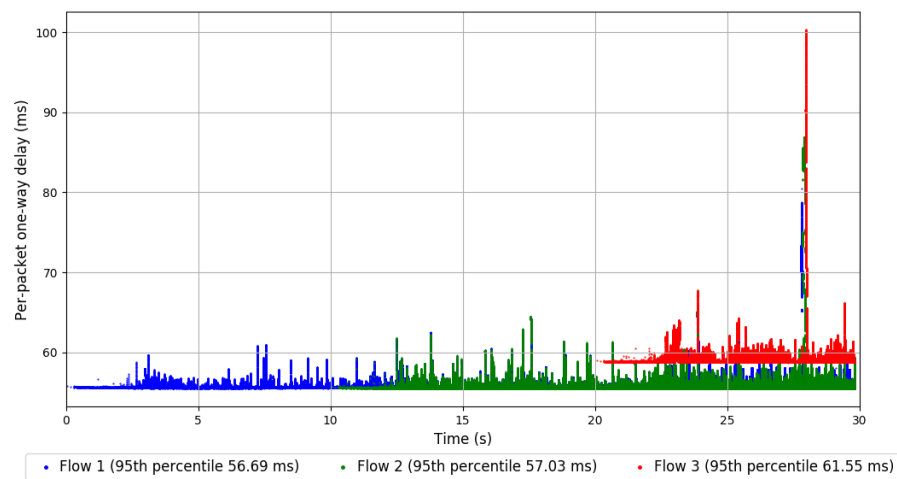
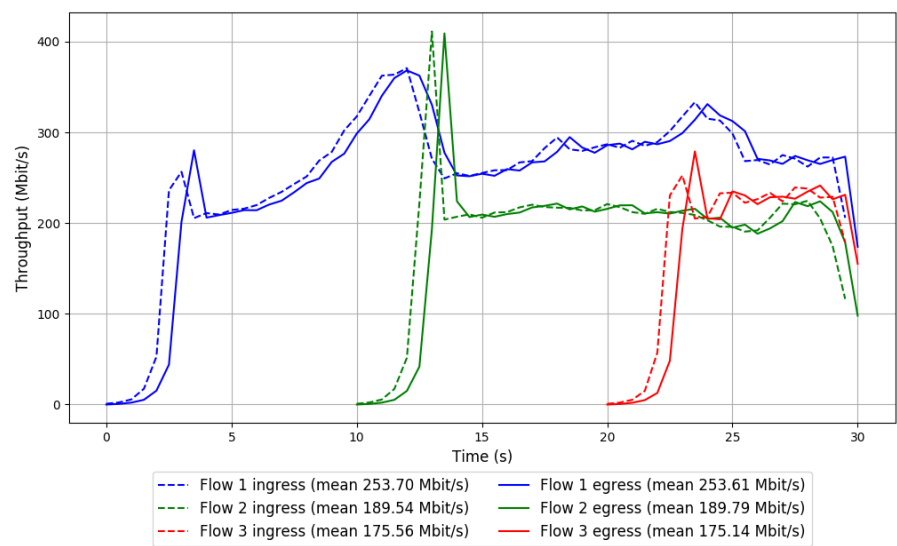
-- Flow 3:

Average throughput: 175.14 Mbit/s

95th percentile per-packet one-way delay: 61.545 ms

Loss rate: 1.46%

Run 3: Report of PCC-Vivace — Data Link

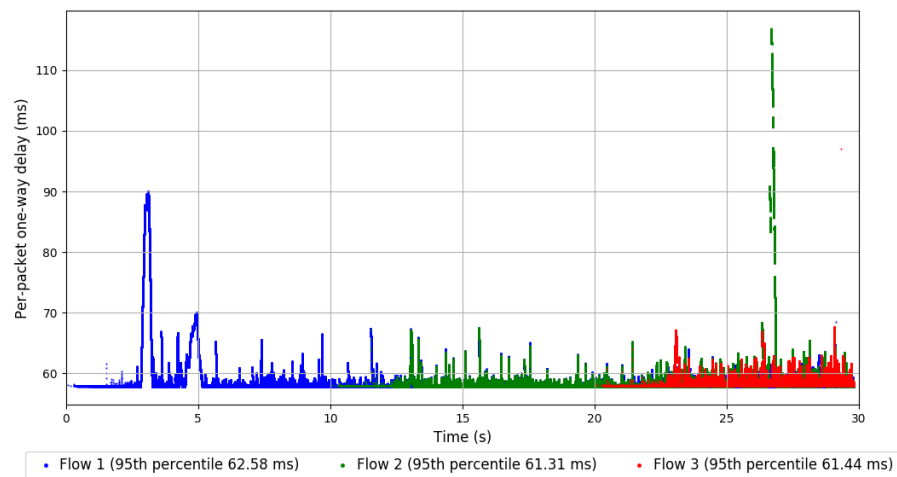
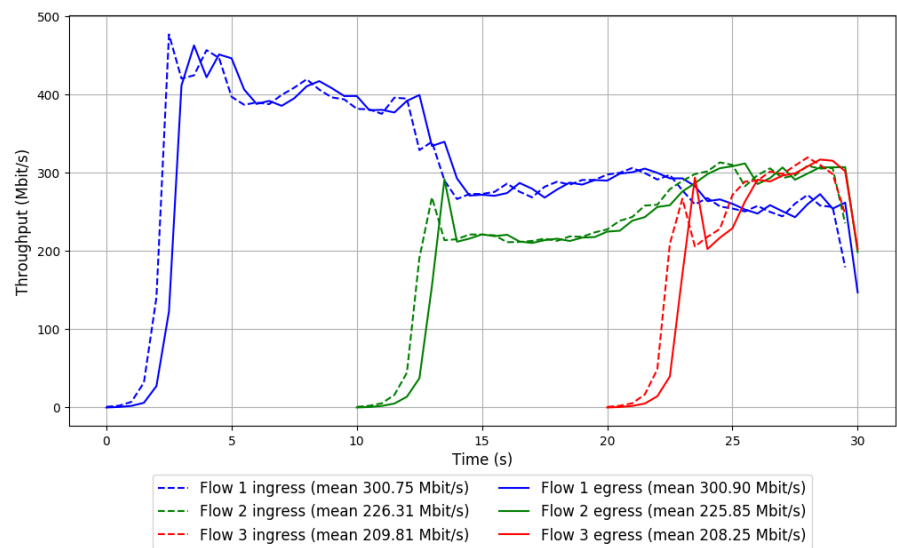


Run 4: Statistics of PCC-Vivace

Start at: 2019-09-19 06:31:12  
End at: 2019-09-19 06:31:42  
Local clock offset: 0.182 ms  
Remote clock offset: -0.805 ms

# Below is generated by plot.py at 2019-09-19 10:41:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 518.98 Mbit/s  
95th percentile per-packet one-way delay: 61.878 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 300.90 Mbit/s  
95th percentile per-packet one-way delay: 62.577 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 225.85 Mbit/s  
95th percentile per-packet one-way delay: 61.311 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 208.25 Mbit/s  
95th percentile per-packet one-way delay: 61.435 ms  
Loss rate: 1.89%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-19 07:12:24

End at: 2019-09-19 07:12:54

Local clock offset: -0.248 ms

Remote clock offset: 0.472 ms

# Below is generated by plot.py at 2019-09-19 10:42:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 521.81 Mbit/s

95th percentile per-packet one-way delay: 61.418 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 296.44 Mbit/s

95th percentile per-packet one-way delay: 80.077 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 262.90 Mbit/s

95th percentile per-packet one-way delay: 59.046 ms

Loss rate: 0.69%

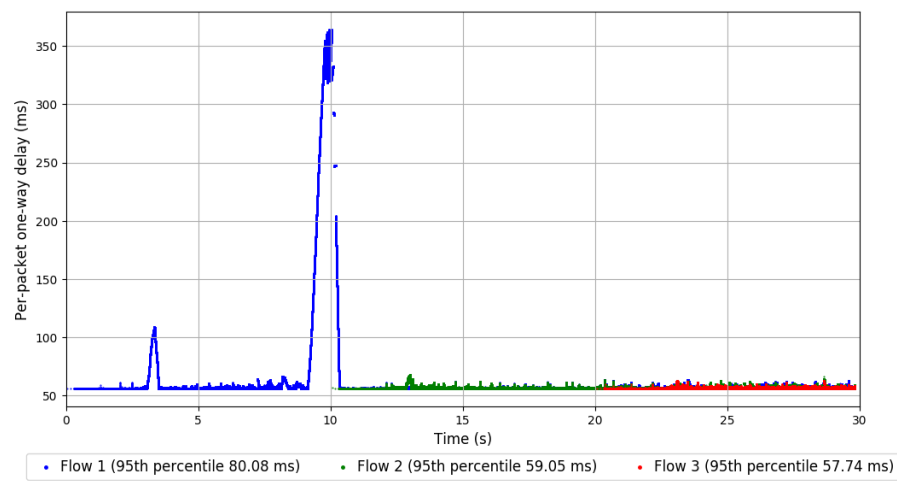
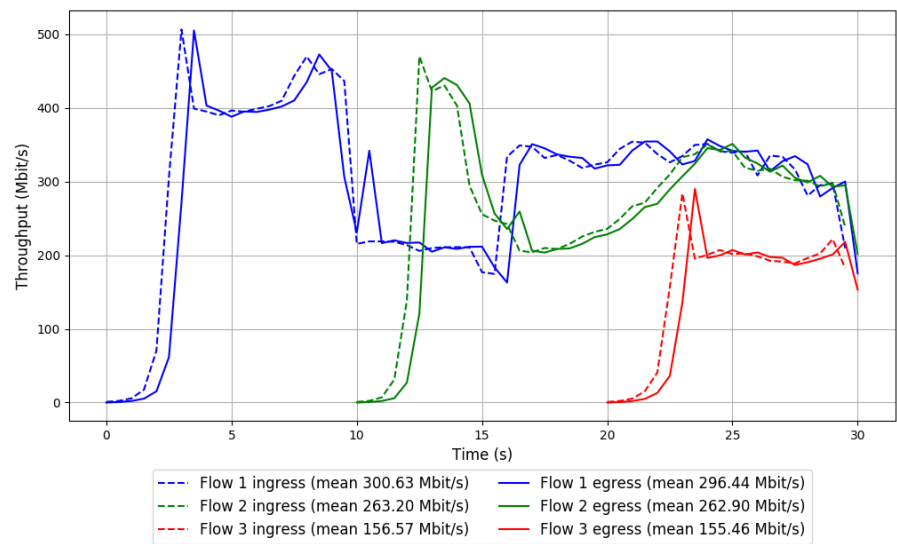
-- Flow 3:

Average throughput: 155.46 Mbit/s

95th percentile per-packet one-way delay: 57.737 ms

Loss rate: 1.85%

Run 5: Report of PCC-Vivace — Data Link

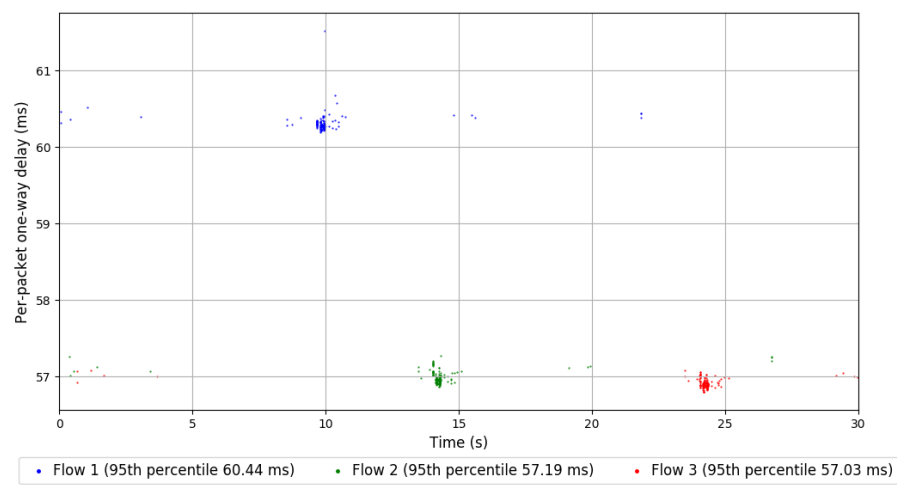
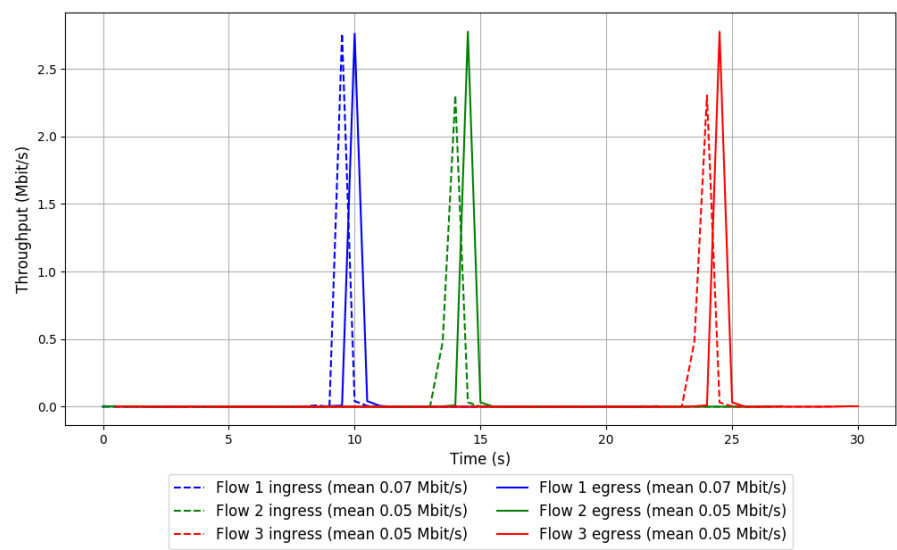


Run 1: Statistics of WebRTC media

Start at: 2019-09-19 04:03:03  
End at: 2019-09-19 04:03:33  
Local clock offset: -0.105 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-09-19 10:42:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 60.368 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 60.436 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.186 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.034 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



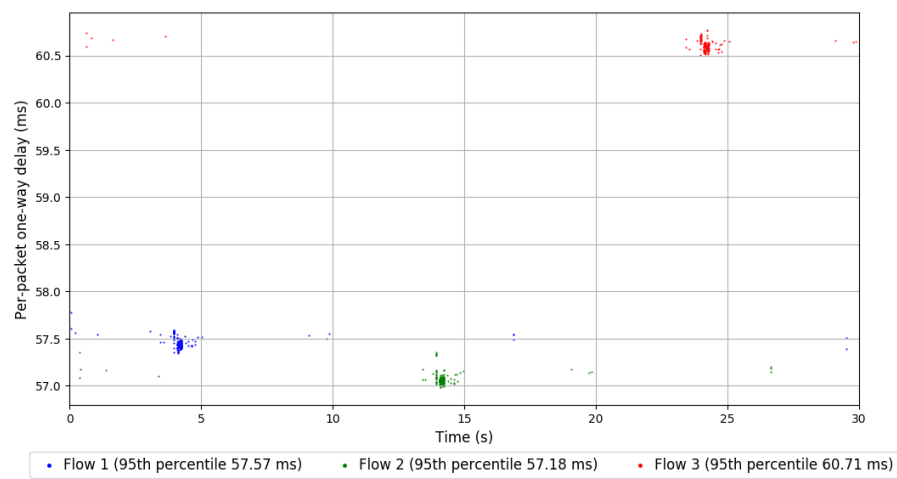
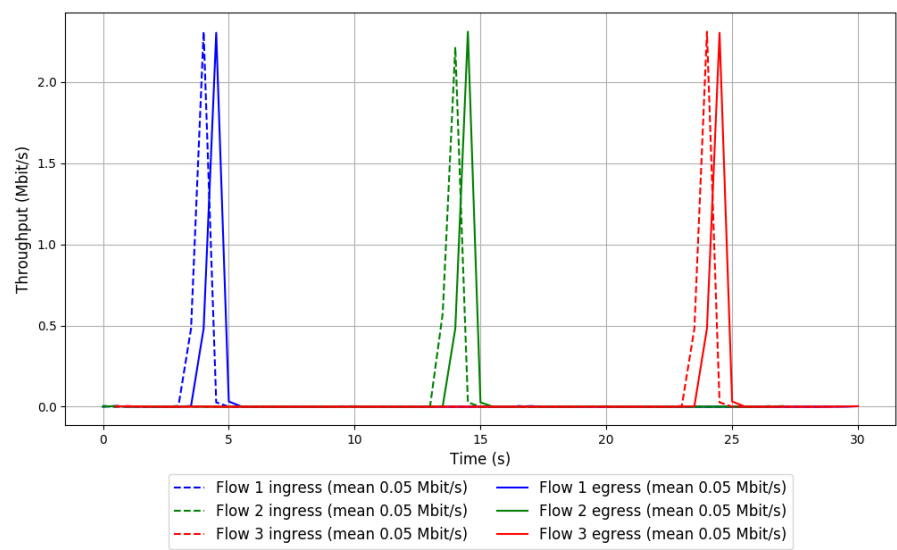


Run 2: Statistics of WebRTC media

Start at: 2019-09-19 04:44:08  
End at: 2019-09-19 04:44:38  
Local clock offset: -0.056 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-09-19 10:42:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 60.664 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.573 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.180 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.709 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

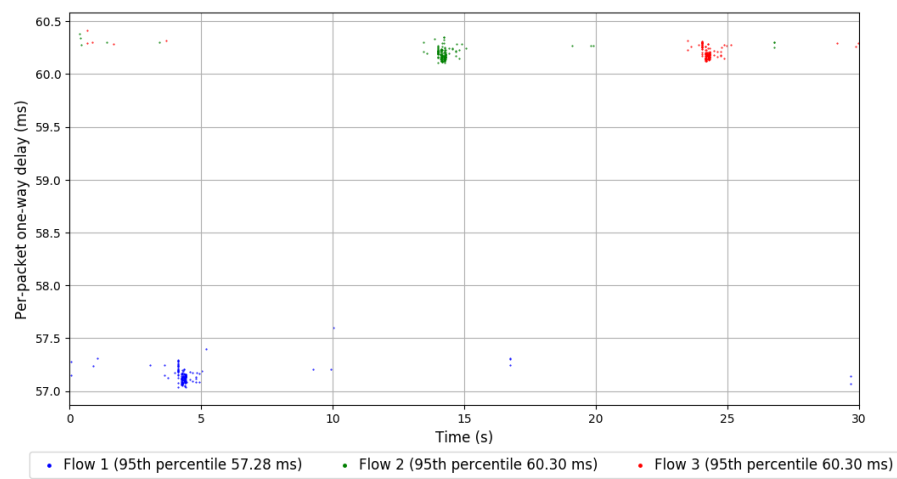
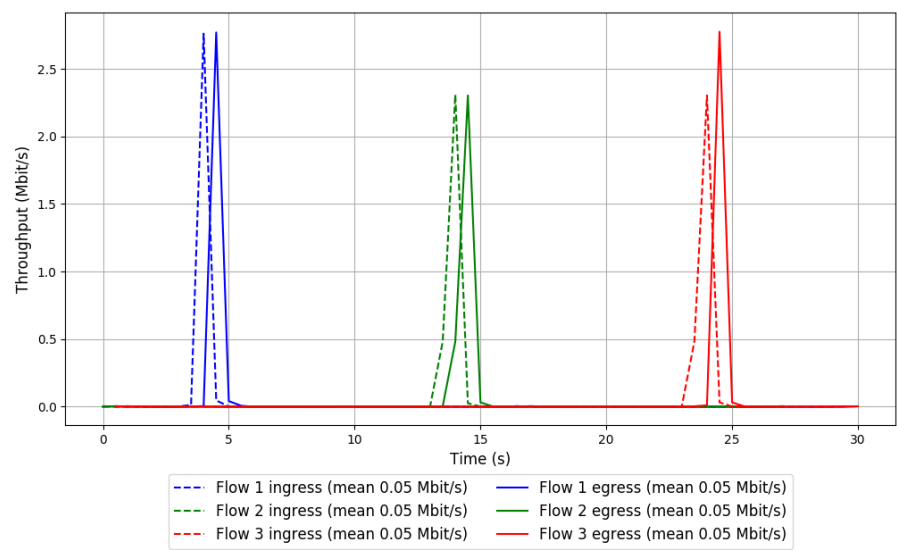


Run 3: Statistics of WebRTC media

Start at: 2019-09-19 05:25:12  
End at: 2019-09-19 05:25:42  
Local clock offset: -0.069 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-09-19 10:42:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 60.290 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.281 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.300 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.298 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-19 06:06:24

End at: 2019-09-19 06:06:54

Local clock offset: -0.073 ms

Remote clock offset: 0.606 ms

# Below is generated by plot.py at 2019-09-19 10:42:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 56.811 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 56.887 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 56.685 ms

Loss rate: 0.00%

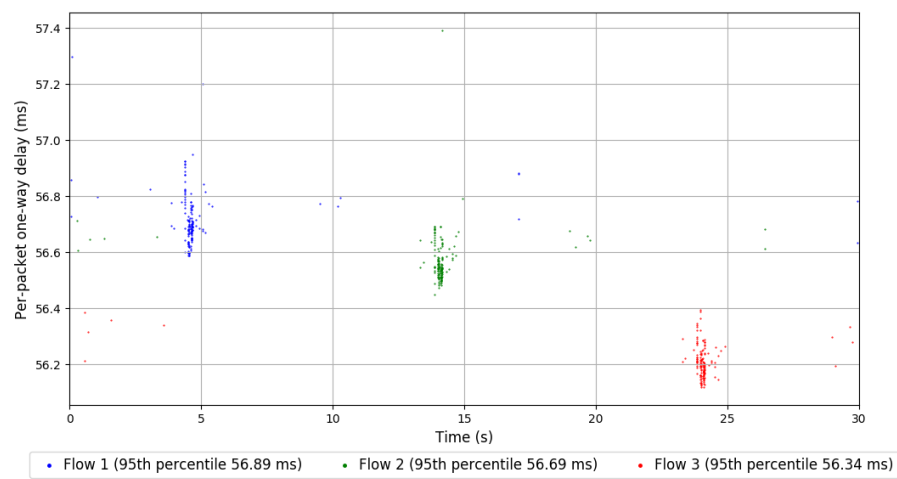
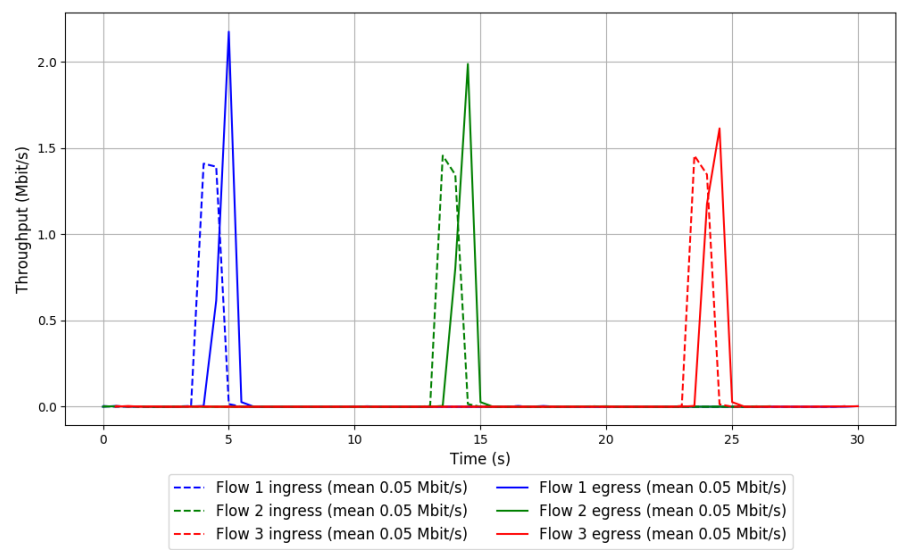
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 56.339 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-19 06:47:22  
End at: 2019-09-19 06:47:52  
Local clock offset: 0.156 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-09-19 10:42:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 60.536 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.594 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.317 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.175 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

