

## Pantheon Report

Generated at 2019-11-24 11:38:54 (UTC).

Data path: AWS California 2 on **ens5** (*local*) → Mexico on **em1** (*remote*).

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.stanford.edu** and have been applied to correct the timestamps in logs.

### System info:

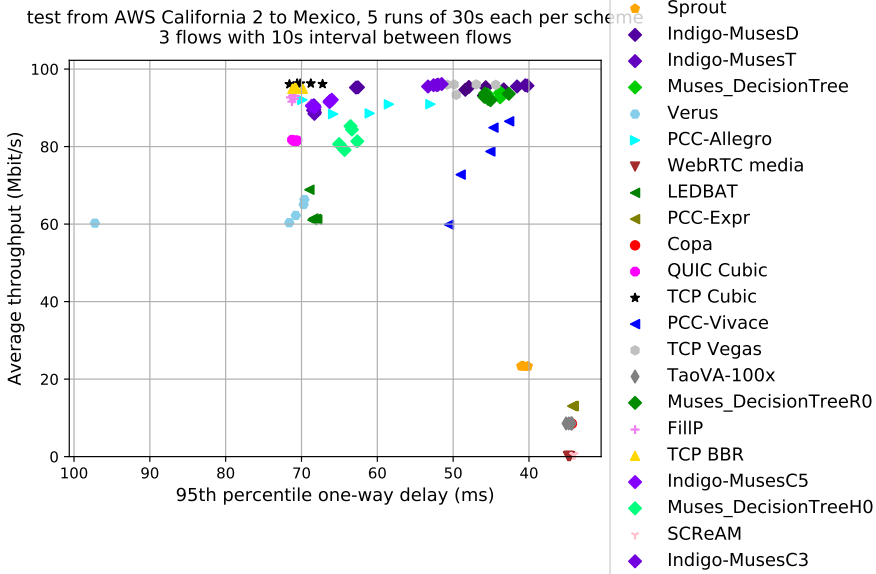
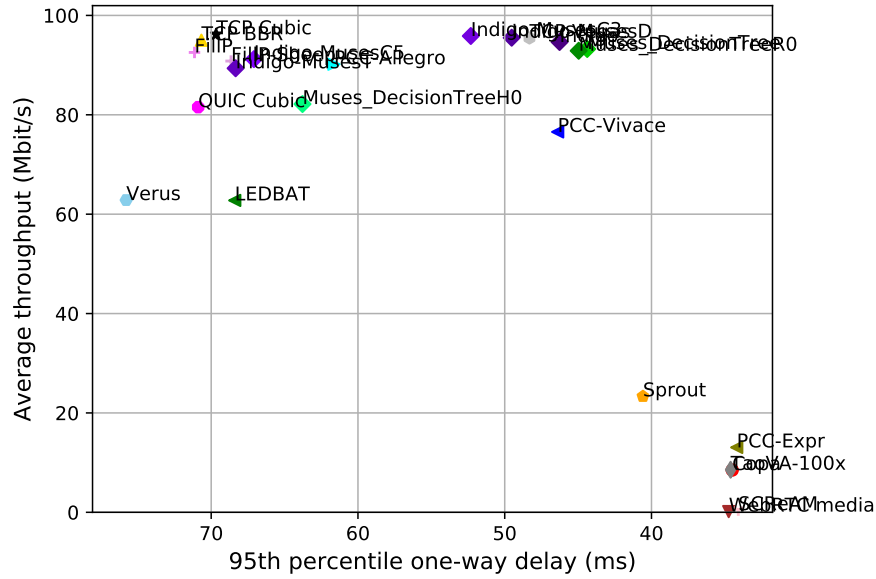
```
Linux 4.15.0-1051-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
```

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

test from AWS California 2 to Mexico, 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	63.94	31.38	31.31	70.09	71.30	71.40	7.61	9.88	11.20
Copa	5	0.00	11.40	2.73	34.01	34.76	34.39	98.17	65.99	71.63
TCP Cubic	5	74.45	21.70	22.00	69.61	69.92	68.98	0.91	0.71	0.93
FillP	5	57.98	41.63	20.94	69.75	72.30	71.56	29.73	46.57	51.44
FillP-Sheep	5	55.22	39.66	27.85	66.83	70.12	70.11	8.71	16.13	17.29
Indigo	5	68.22	26.01	28.10	44.28	48.37	52.30	0.03	0.03	0.00
Indigo-MusesC3	5	55.76	46.95	33.04	48.24	52.83	62.61	0.17	0.27	1.78
Indigo-MusesC5	5	59.90	46.95	2.90	65.53	68.84	69.39	13.03	22.34	28.21
Indigo-MusesD	5	54.67	51.64	24.79	41.04	51.56	53.03	0.39	2.82	4.10
Indigo-MusesT	5	58.66	46.17	2.73	66.37	70.05	69.23	21.05	35.19	28.59
LEDBAT	5	40.40	23.20	20.98	68.52	69.50	56.44	0.22	0.27	0.06
Muses_DecisionTree	5	47.21	37.34	65.75	42.23	45.60	47.90	0.10	0.20	0.24
Muses_DecisionTreeH0	5	56.77	36.33	4.28	63.18	65.03	63.29	6.76	9.26	8.34
Muses_DecisionTreeR0	5	45.49	45.45	53.23	42.25	47.17	47.60	0.10	0.35	0.26
PCC-Allegro	5	77.93	13.34	10.24	61.05	63.70	66.81	2.02	2.00	3.64
PCC-Expr	5	7.98	5.79	3.75	34.19	34.20	34.22	43.86	28.87	31.79
QUIC Cubic	5	67.07	16.89	9.92	70.84	71.07	71.06	2.81	1.28	1.38
SCReAM	5	0.21	0.21	0.22	34.06	34.09	34.09	0.00	0.00	0.00
Sprout	5	11.76	11.70	11.48	40.20	40.75	41.25	0.00	0.02	0.00
TaoVA-100x	5	0.00	9.60	6.53	33.97	35.06	34.99	95.92	72.80	76.37
TCP Vegas	5	77.73	17.68	17.89	48.19	48.98	45.43	0.42	0.00	0.00
Verus	5	36.93	34.33	14.69	79.93	70.41	67.05	42.28	41.23	43.06
PCC-Vivace	5	53.29	27.84	14.38	45.86	47.80	46.56	0.17	0.25	0.00
WebRTC media	5	0.05	0.05	0.06	34.69	34.67	34.80	0.00	0.01	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-11-24 08:22:02

End at: 2019-11-24 08:22:32

Local clock offset: 3.359 ms

Remote clock offset: 3.979 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 70.725 ms

Loss rate: 10.01%

-- Flow 1:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 70.353 ms

Loss rate: 9.14%

-- Flow 2:

Average throughput: 33.23 Mbit/s

95th percentile per-packet one-way delay: 71.216 ms

Loss rate: 11.56%

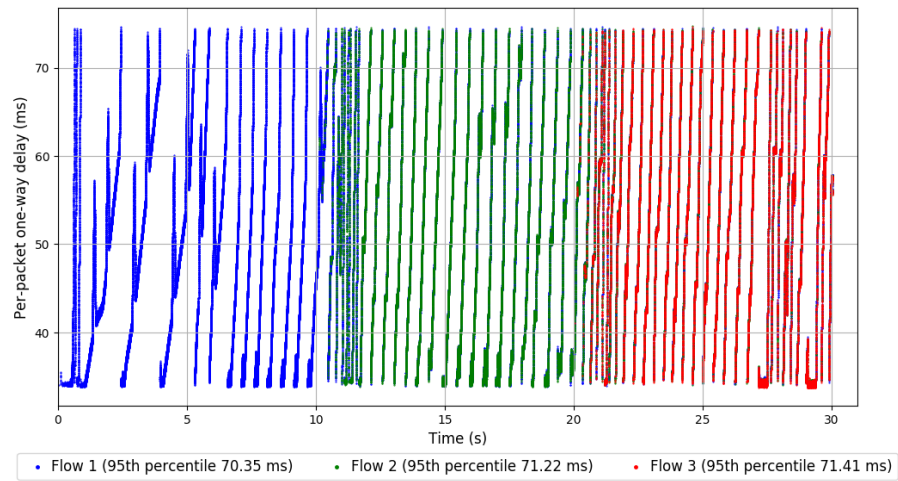
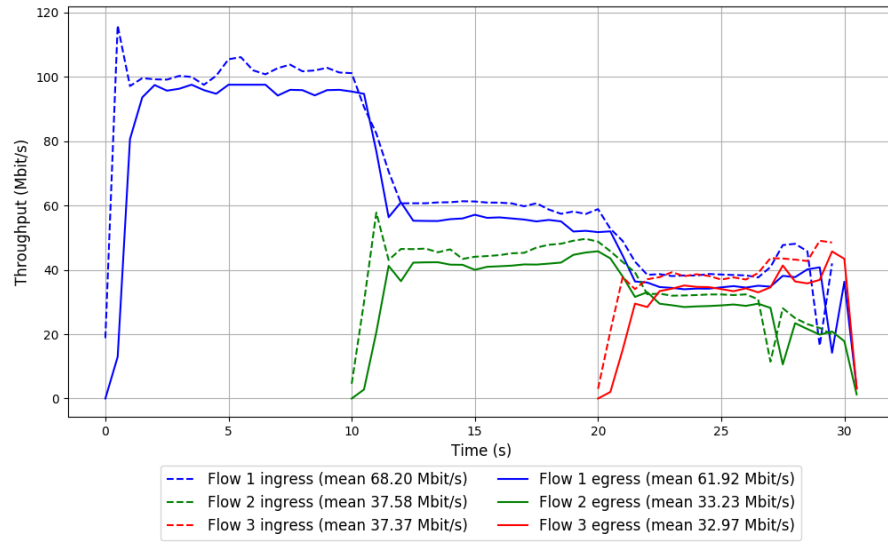
-- Flow 3:

Average throughput: 32.97 Mbit/s

95th percentile per-packet one-way delay: 71.408 ms

Loss rate: 11.63%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-11-24 09:14:54

End at: 2019-11-24 09:15:24

Local clock offset: 3.137 ms

Remote clock offset: 4.245 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.93 Mbit/s

95th percentile per-packet one-way delay: 69.822 ms

Loss rate: 7.08%

-- Flow 1:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 69.633 ms

Loss rate: 6.61%

-- Flow 2:

Average throughput: 22.40 Mbit/s

95th percentile per-packet one-way delay: 70.200 ms

Loss rate: 7.33%

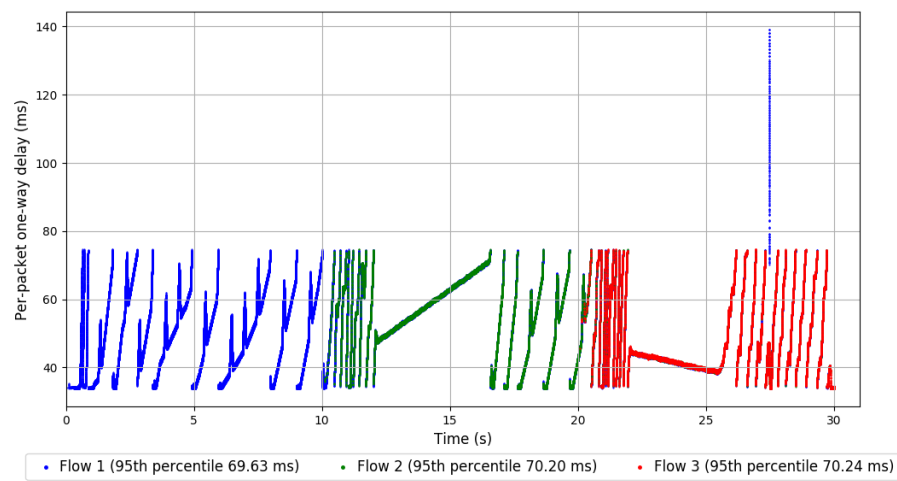
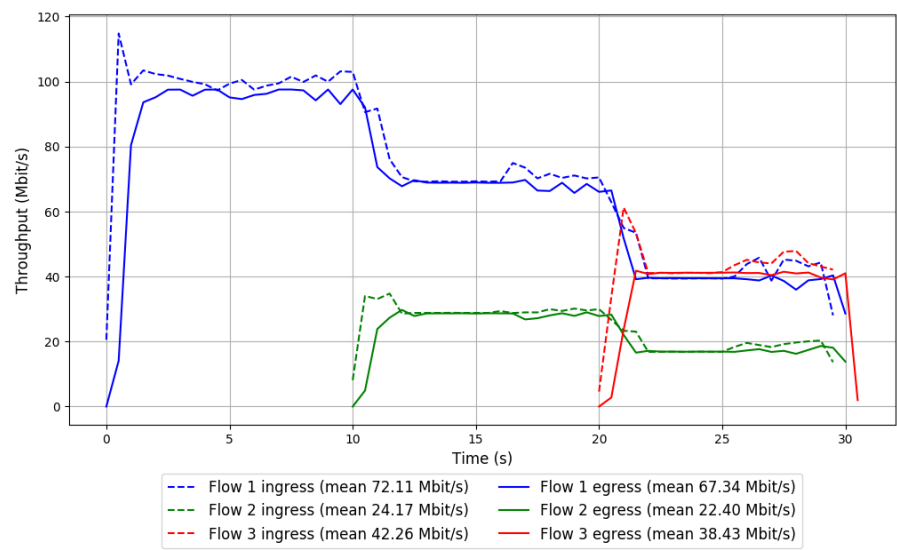
-- Flow 3:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 70.238 ms

Loss rate: 9.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-11-24 09:53:45

End at: 2019-11-24 09:54:15

Local clock offset: 2.926 ms

Remote clock offset: 4.079 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 70.712 ms

Loss rate: 8.54%

-- Flow 1:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 70.066 ms

Loss rate: 7.29%

-- Flow 2:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 71.337 ms

Loss rate: 10.75%

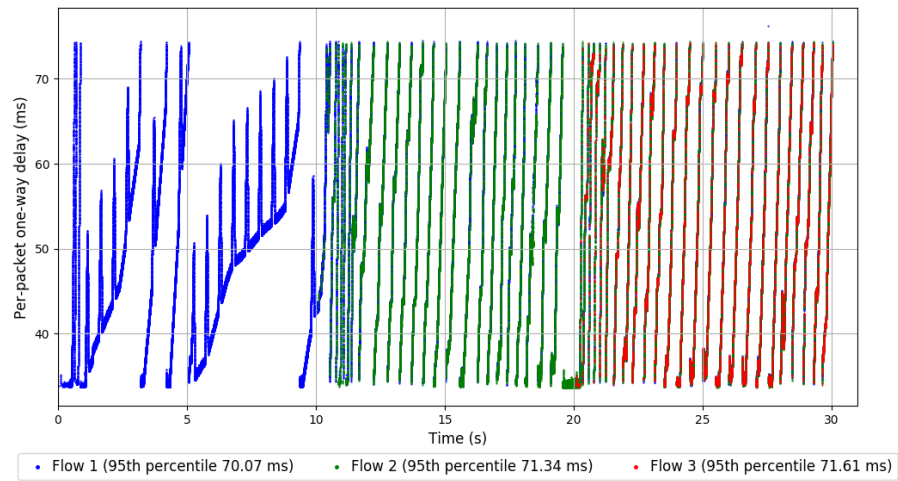
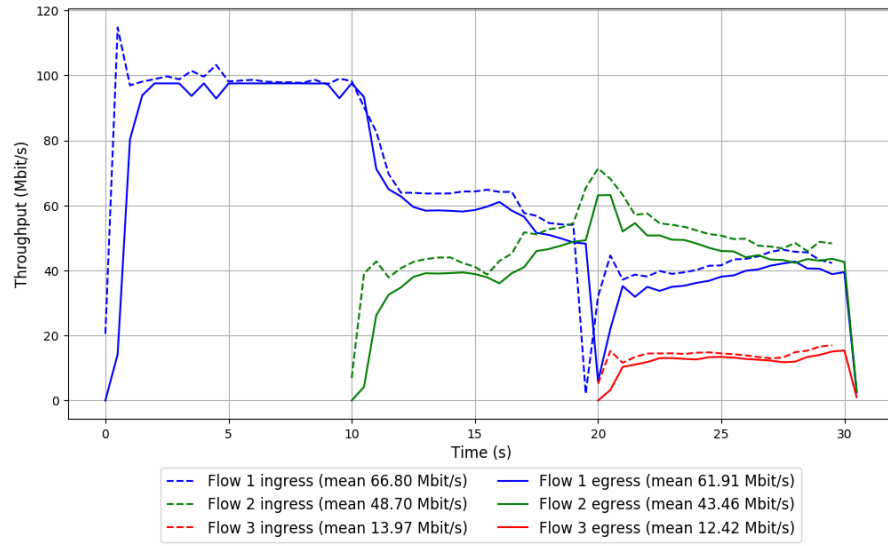
-- Flow 3:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 71.613 ms

Loss rate: 10.97%

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



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 10:35:57

End at: 2019-11-24 10:36:27

Local clock offset: 2.558 ms

Remote clock offset: 4.088 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 71.198 ms

Loss rate: 8.14%

-- Flow 1:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 70.699 ms

Loss rate: 7.28%

-- Flow 2:

Average throughput: 25.50 Mbit/s

95th percentile per-packet one-way delay: 72.010 ms

Loss rate: 9.35%

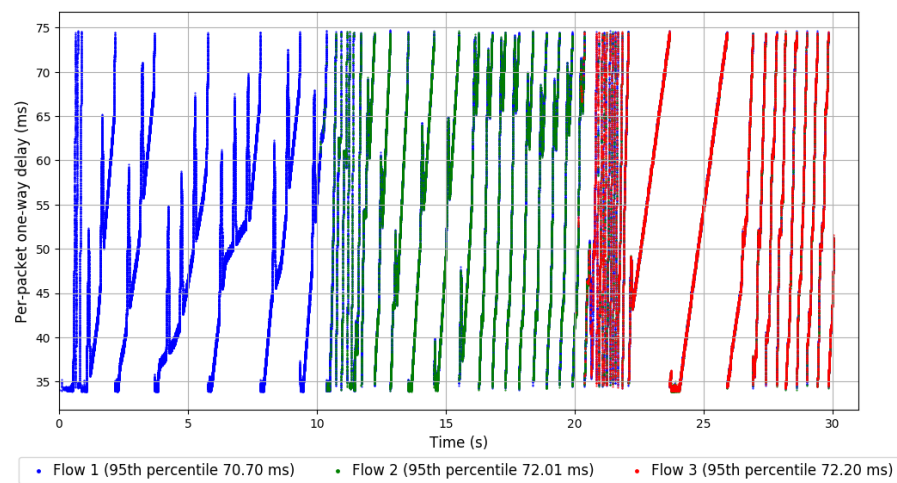
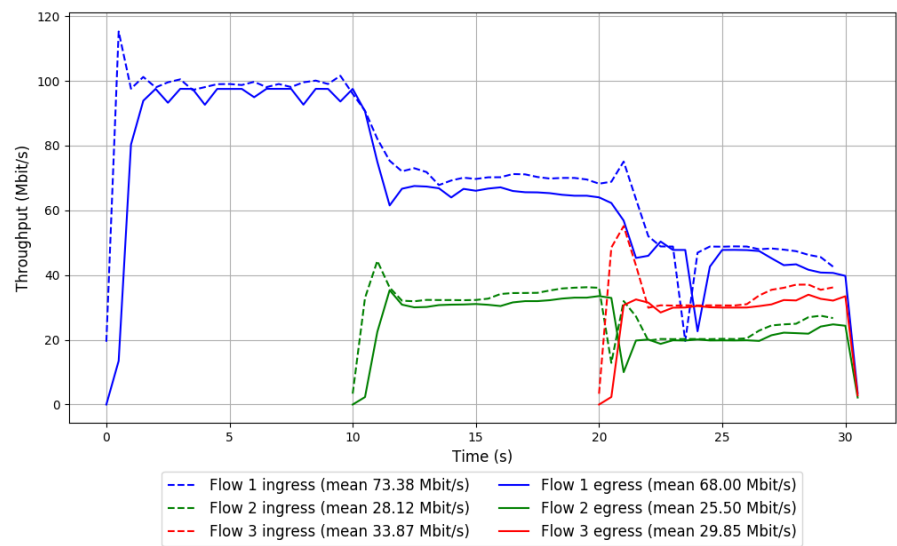
-- Flow 3:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 72.200 ms

Loss rate: 11.78%

Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-11-24 11:18:12

End at: 2019-11-24 11:18:42

Local clock offset: 2.81 ms

Remote clock offset: 4.028 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 70.879 ms

Loss rate: 9.04%

-- Flow 1:

Average throughput: 60.51 Mbit/s

95th percentile per-packet one-way delay: 69.706 ms

Loss rate: 7.73%

-- Flow 2:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 71.757 ms

Loss rate: 10.41%

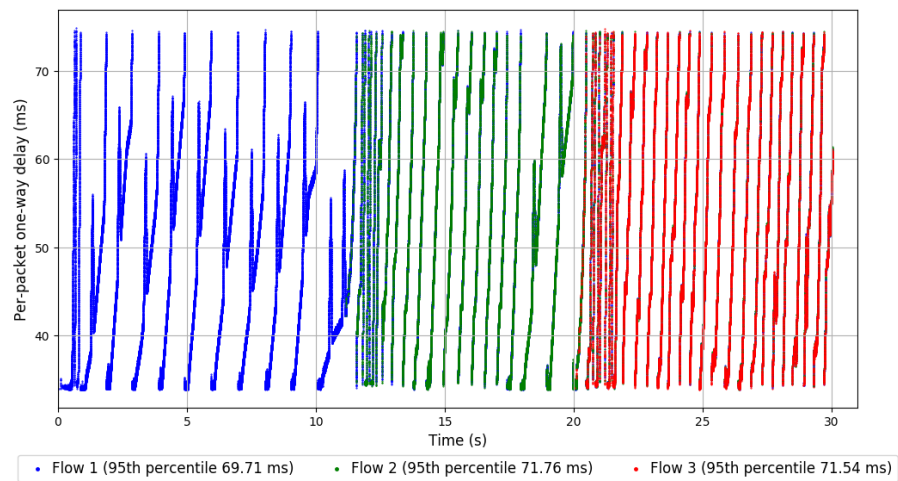
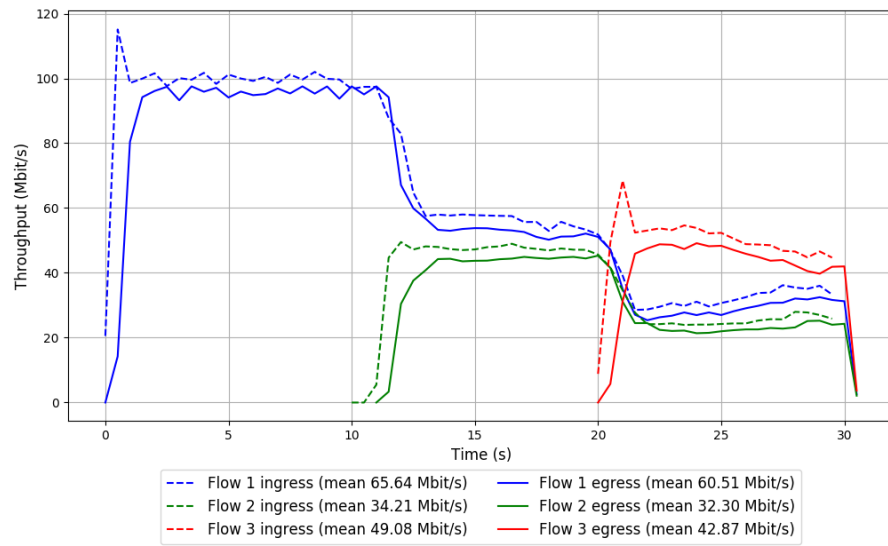
-- Flow 3:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 71.538 ms

Loss rate: 12.43%

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



Run 1: Statistics of Copa

Start at: 2019-11-24 07:40:02

End at: 2019-11-24 07:40:32

Local clock offset: 4.333 ms

Remote clock offset: 4.415 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 34.697 ms

Loss rate: 63.85%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 34.189 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 34.687 ms

Loss rate: 63.83%

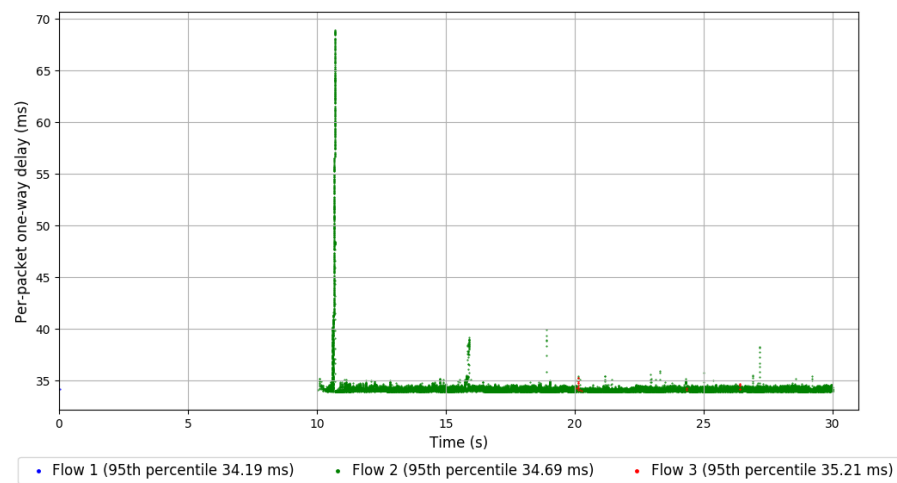
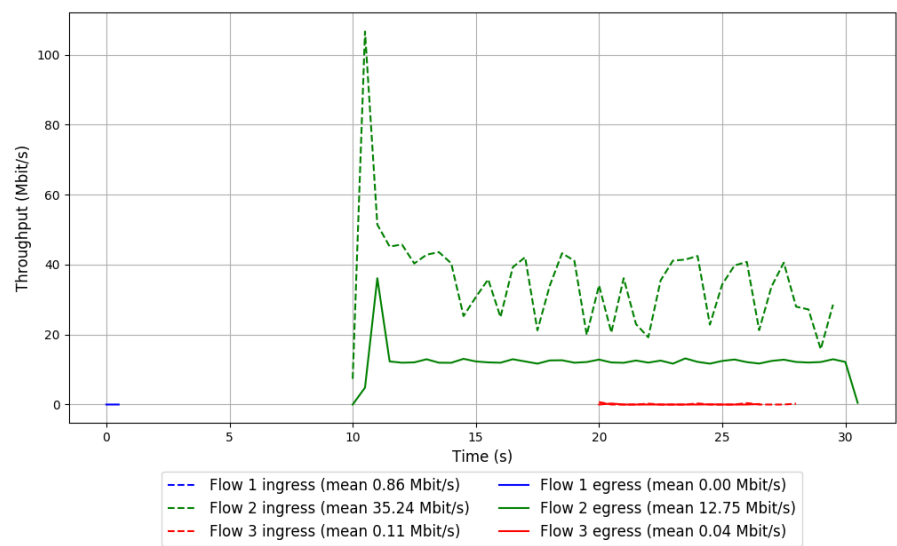
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 35.212 ms

Loss rate: 74.60%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-11-24 08:47:49

End at: 2019-11-24 08:48:19

Local clock offset: 3.171 ms

Remote clock offset: 4.326 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 34.485 ms

Loss rate: 67.99%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.969 ms

Loss rate: 97.92%

-- Flow 2:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 35.144 ms

Loss rate: 67.51%

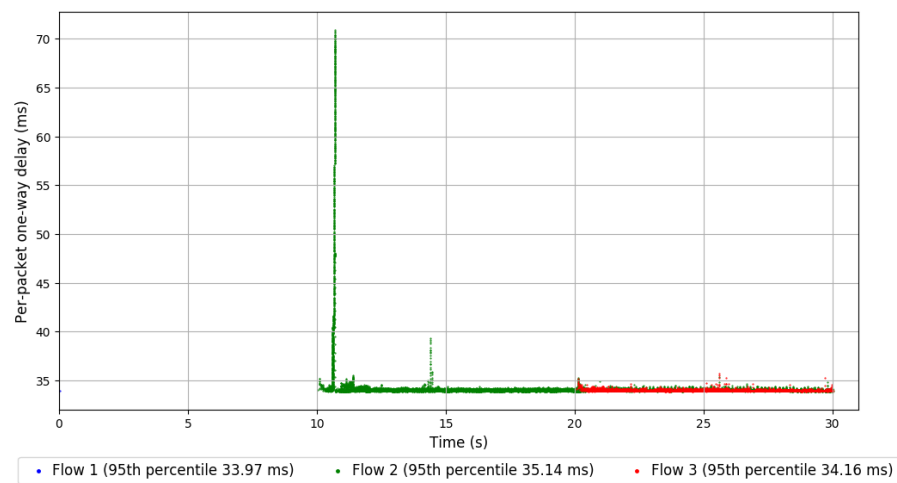
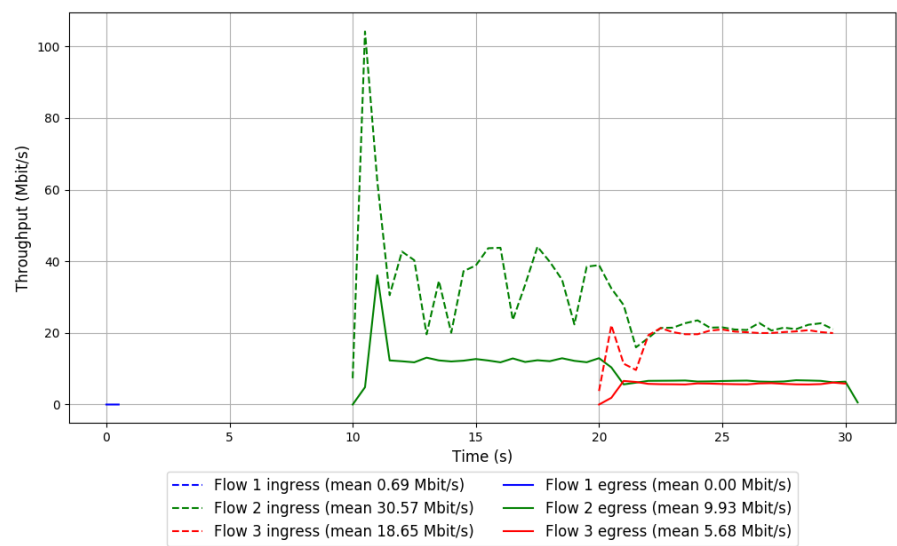
-- Flow 3:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 34.164 ms

Loss rate: 69.57%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-11-24 09:33:27

End at: 2019-11-24 09:33:57

Local clock offset: 3.08 ms

Remote clock offset: 4.302 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 34.411 ms

Loss rate: 63.11%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 34.055 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 34.412 ms

Loss rate: 62.44%

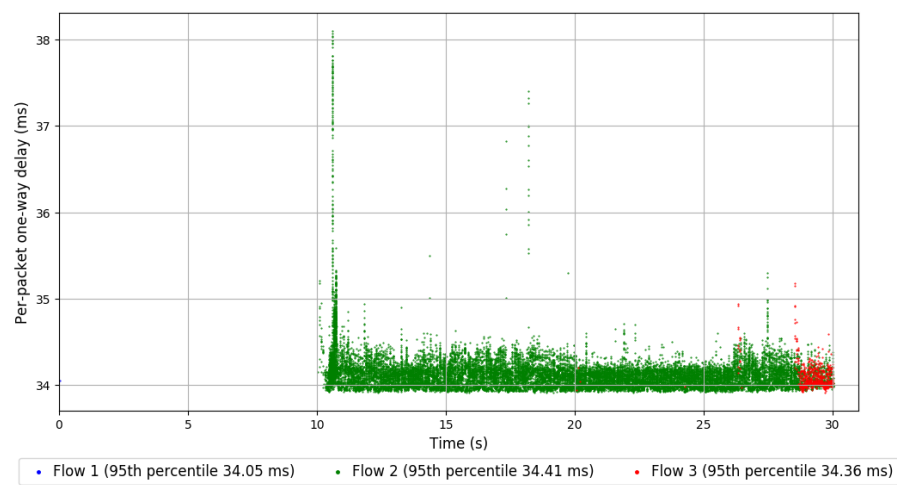
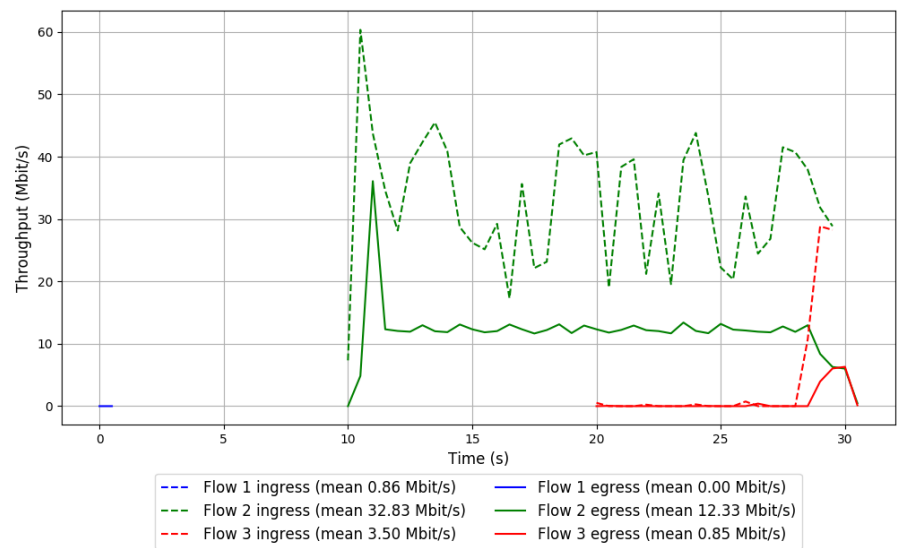
-- Flow 3:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 34.362 ms

Loss rate: 75.68%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-11-24 10:13:18

End at: 2019-11-24 10:13:48

Local clock offset: 2.763 ms

Remote clock offset: 4.109 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 34.341 ms

Loss rate: 69.29%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.950 ms

Loss rate: 97.92%

-- Flow 2:

Average throughput: 9.71 Mbit/s

95th percentile per-packet one-way delay: 34.972 ms

Loss rate: 68.89%

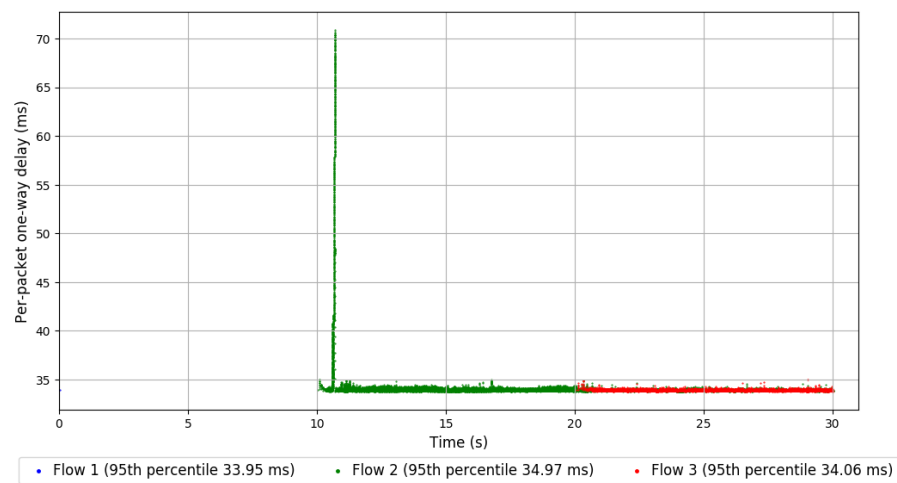
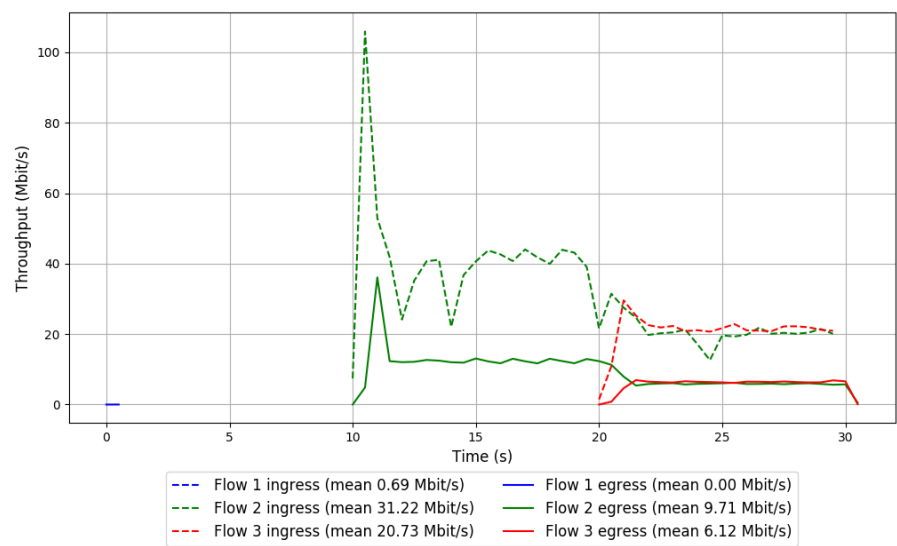
-- Flow 3:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 34.063 ms

Loss rate: 70.48%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-24 10:54:59

End at: 2019-11-24 10:55:29

Local clock offset: 2.71 ms

Remote clock offset: 3.99 ms

# Below is generated by plot.py at 2019-11-24 11:26:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 34.564 ms

Loss rate: 67.29%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.907 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 12.29 Mbit/s

95th percentile per-packet one-way delay: 34.607 ms

Loss rate: 67.27%

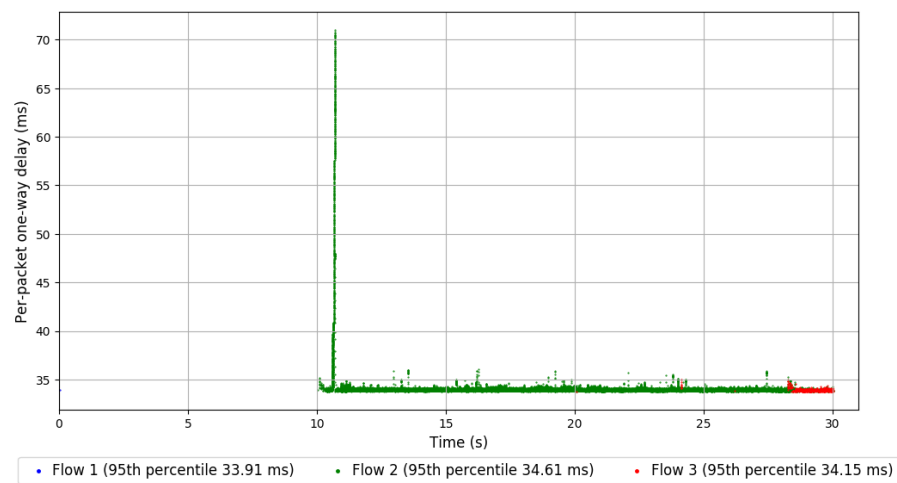
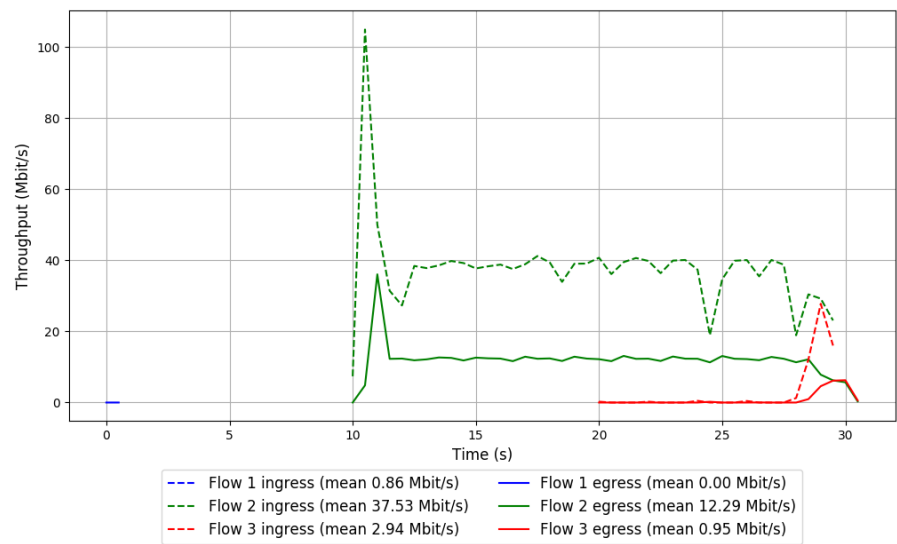
-- Flow 3:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 34.147 ms

Loss rate: 67.83%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 08:11:45

End at: 2019-11-24 08:12:15

Local clock offset: 3.886 ms

Remote clock offset: 4.191 ms

# Below is generated by plot.py at 2019-11-24 11:26:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 67.222 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 78.96 Mbit/s

95th percentile per-packet one-way delay: 66.962 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 16.20 Mbit/s

95th percentile per-packet one-way delay: 68.234 ms

Loss rate: 0.62%

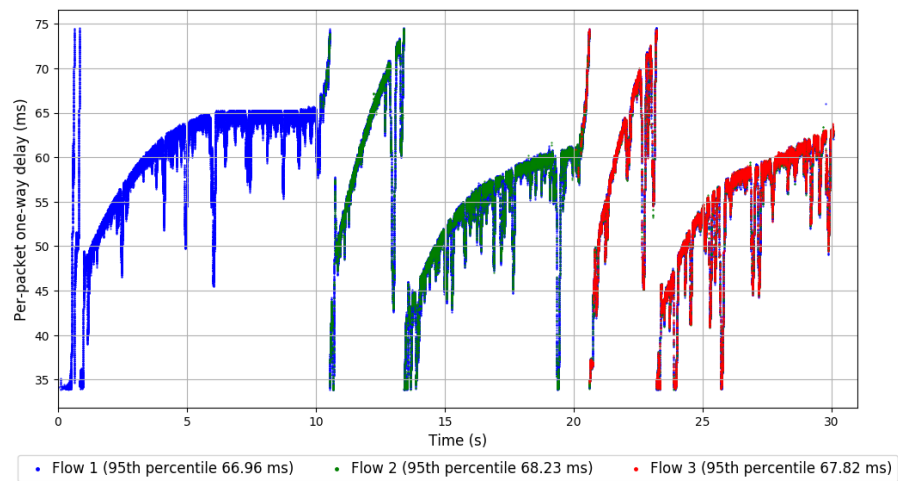
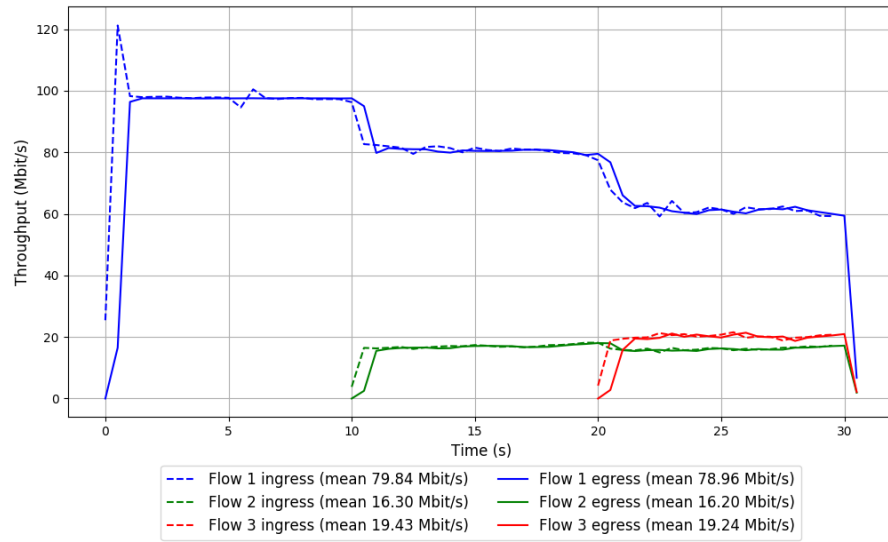
-- Flow 3:

Average throughput: 19.24 Mbit/s

95th percentile per-packet one-way delay: 67.823 ms

Loss rate: 0.99%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 09:09:31

End at: 2019-11-24 09:10:01

Local clock offset: 3.191 ms

Remote clock offset: 4.116 ms

# Below is generated by plot.py at 2019-11-24 11:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 70.155 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 70.486 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 69.181 ms

Loss rate: 0.77%

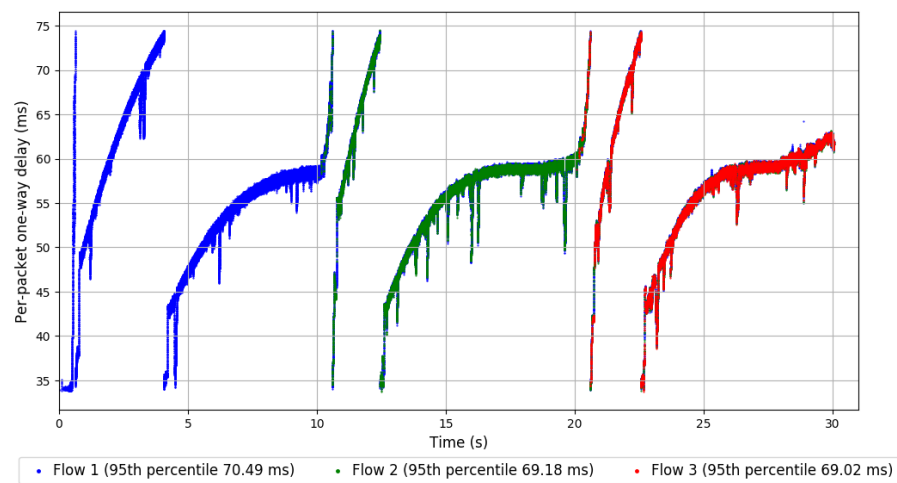
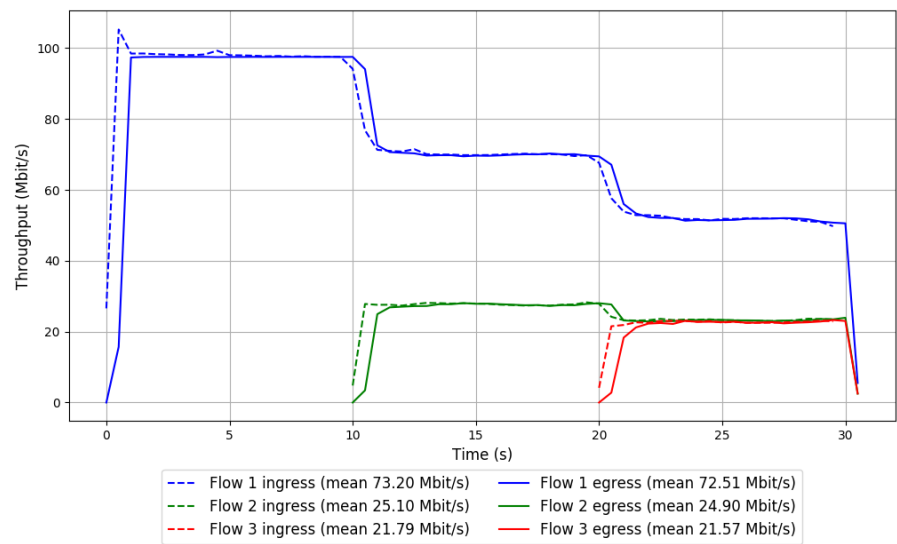
-- Flow 3:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 69.024 ms

Loss rate: 1.00%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 09:50:33

End at: 2019-11-24 09:51:03

Local clock offset: 2.956 ms

Remote clock offset: 4.133 ms

# Below is generated by plot.py at 2019-11-24 11:27:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 68.777 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 68.352 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 70.402 ms

Loss rate: 0.59%

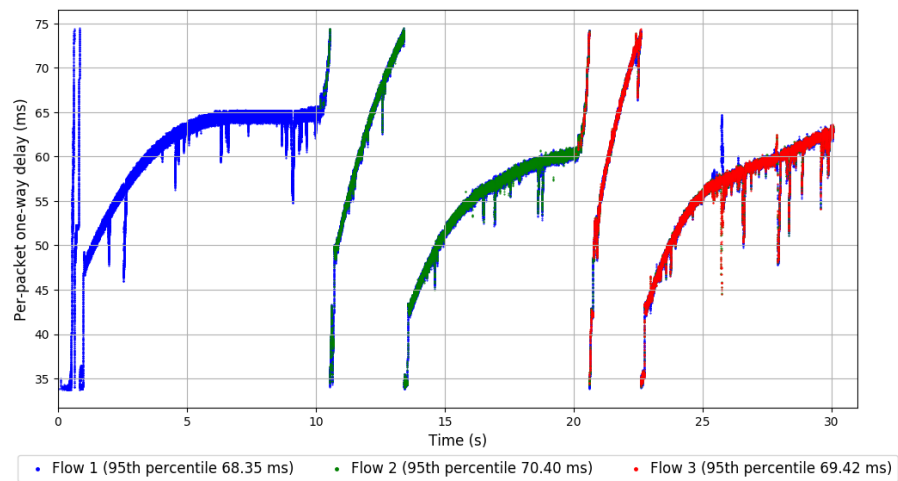
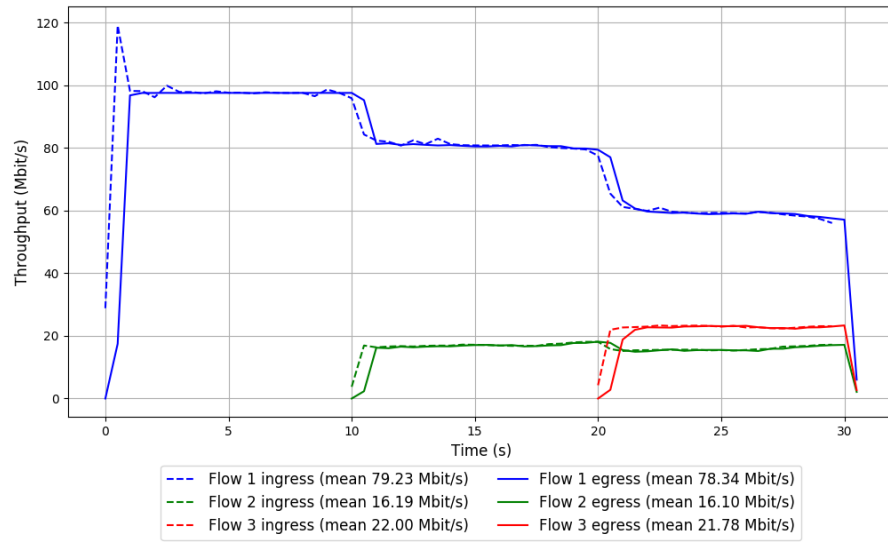
-- Flow 3:

Average throughput: 21.78 Mbit/s

95th percentile per-packet one-way delay: 69.416 ms

Loss rate: 0.97%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 10:32:22

End at: 2019-11-24 10:32:52

Local clock offset: 2.608 ms

Remote clock offset: 4.135 ms

# Below is generated by plot.py at 2019-11-24 11:27:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 71.588 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 71.595 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 72.029 ms

Loss rate: 0.83%

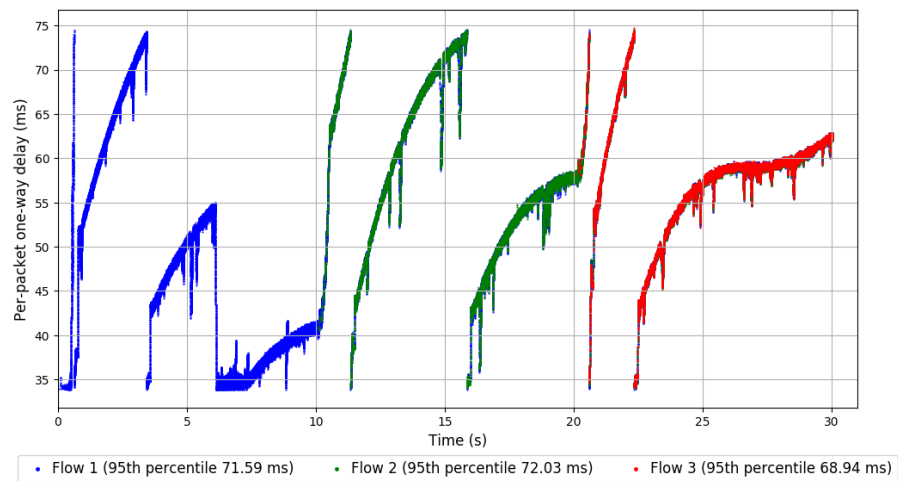
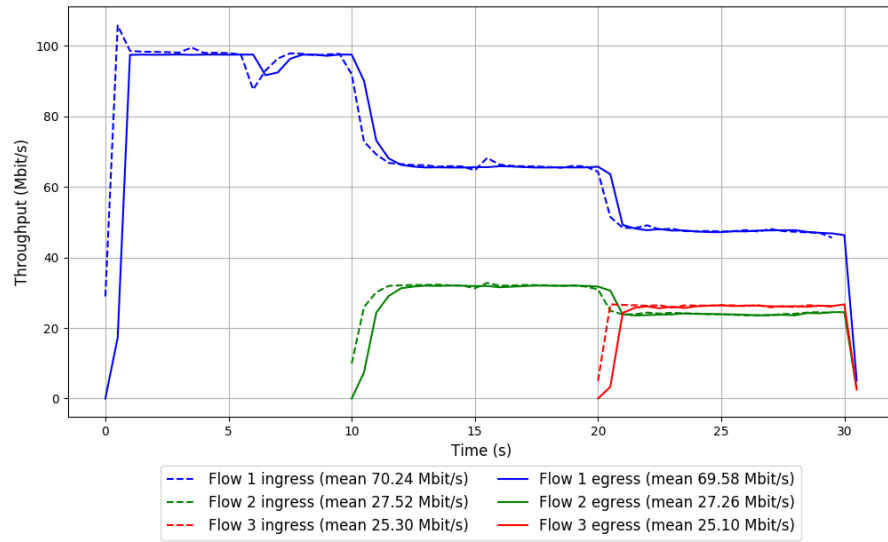
-- Flow 3:

Average throughput: 25.10 Mbit/s

95th percentile per-packet one-way delay: 68.941 ms

Loss rate: 0.76%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 11:14:13

End at: 2019-11-24 11:14:43

Local clock offset: 2.762 ms

Remote clock offset: 4.031 ms

# Below is generated by plot.py at 2019-11-24 11:27:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 70.564 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 72.87 Mbit/s

95th percentile per-packet one-way delay: 70.667 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 24.05 Mbit/s

95th percentile per-packet one-way delay: 69.741 ms

Loss rate: 0.74%

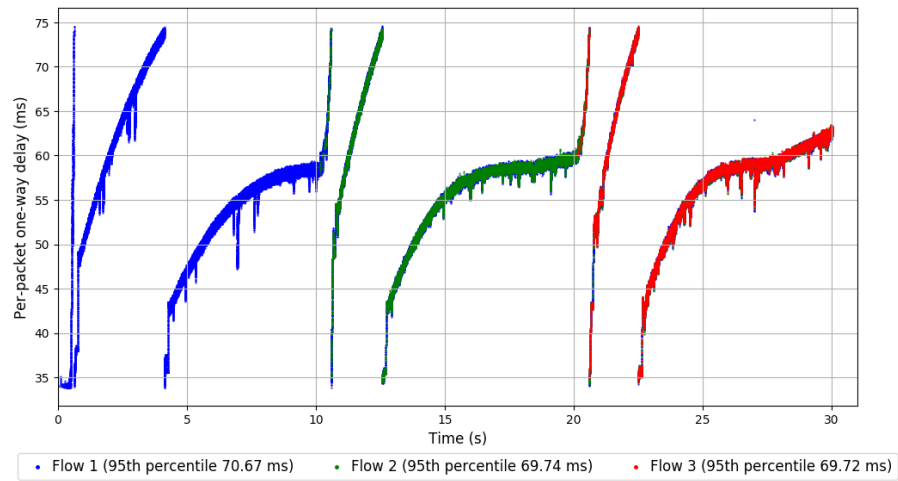
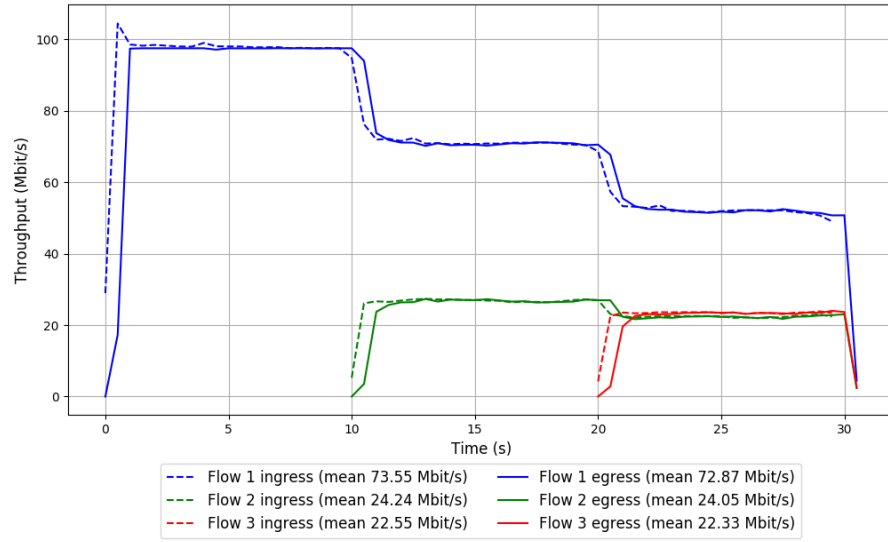
-- Flow 3:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 69.719 ms

Loss rate: 0.93%

# Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-11-24 07:18:00

End at: 2019-11-24 07:18:30

Local clock offset: 3.71 ms

Remote clock offset: 4.308 ms

# Below is generated by plot.py at 2019-11-24 11:28:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 71.177 ms

Loss rate: 38.11%

-- Flow 1:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 69.587 ms

Loss rate: 29.59%

-- Flow 2:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 72.408 ms

Loss rate: 46.26%

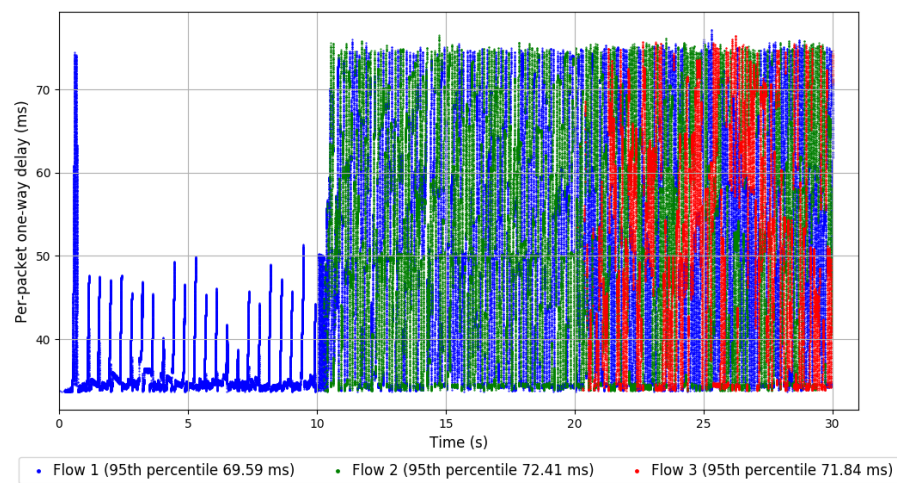
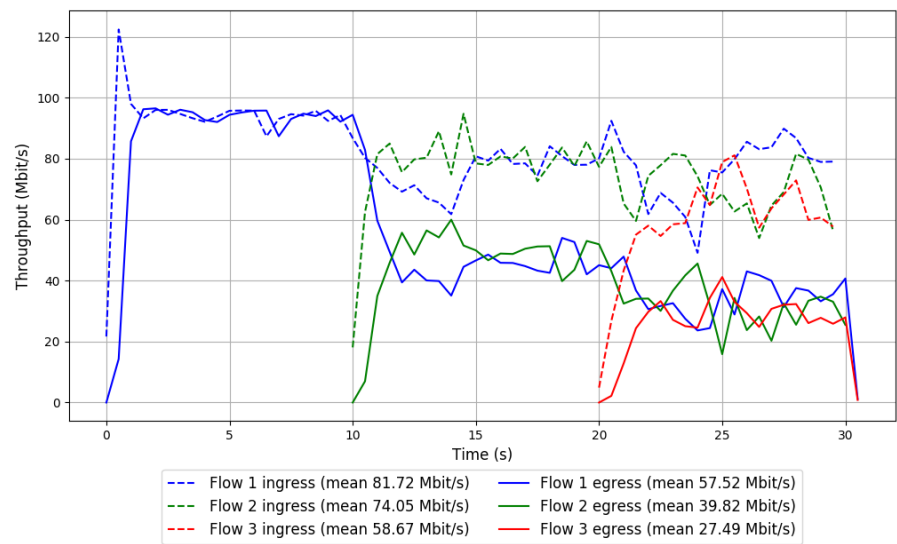
-- Flow 3:

Average throughput: 27.49 Mbit/s

95th percentile per-packet one-way delay: 71.836 ms

Loss rate: 53.23%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-11-24 08:33:38

End at: 2019-11-24 08:34:08

Local clock offset: 3.093 ms

Remote clock offset: 4.173 ms

# Below is generated by plot.py at 2019-11-24 11:28:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.08 Mbit/s

95th percentile per-packet one-way delay: 70.834 ms

Loss rate: 38.54%

-- Flow 1:

Average throughput: 58.48 Mbit/s

95th percentile per-packet one-way delay: 68.987 ms

Loss rate: 30.01%

-- Flow 2:

Average throughput: 40.04 Mbit/s

95th percentile per-packet one-way delay: 72.116 ms

Loss rate: 47.68%

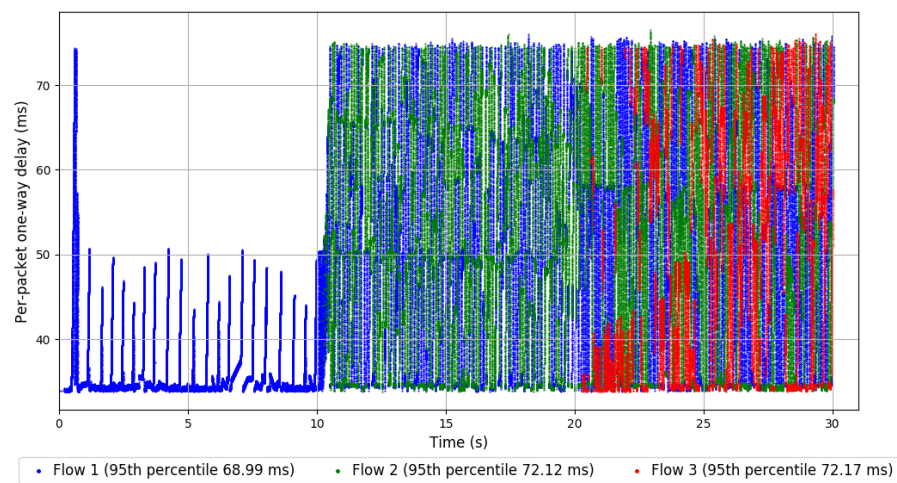
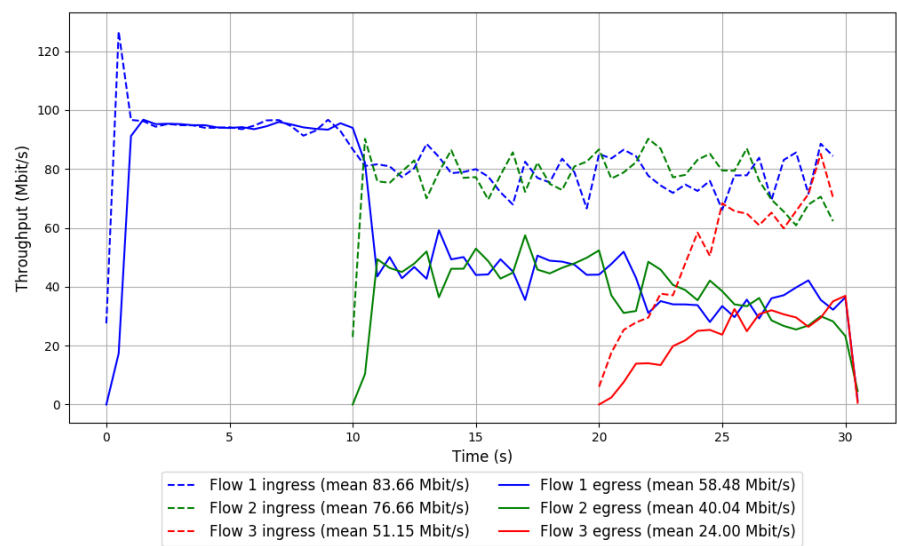
-- Flow 3:

Average throughput: 24.00 Mbit/s

95th percentile per-packet one-way delay: 72.171 ms

Loss rate: 53.14%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-11-24 09:23:42

End at: 2019-11-24 09:24:12

Local clock offset: 3.14 ms

Remote clock offset: 4.315 ms

# Below is generated by plot.py at 2019-11-24 11:28:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 71.262 ms

Loss rate: 36.04%

-- Flow 1:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 70.657 ms

Loss rate: 29.80%

-- Flow 2:

Average throughput: 46.35 Mbit/s

95th percentile per-packet one-way delay: 71.901 ms

Loss rate: 44.71%

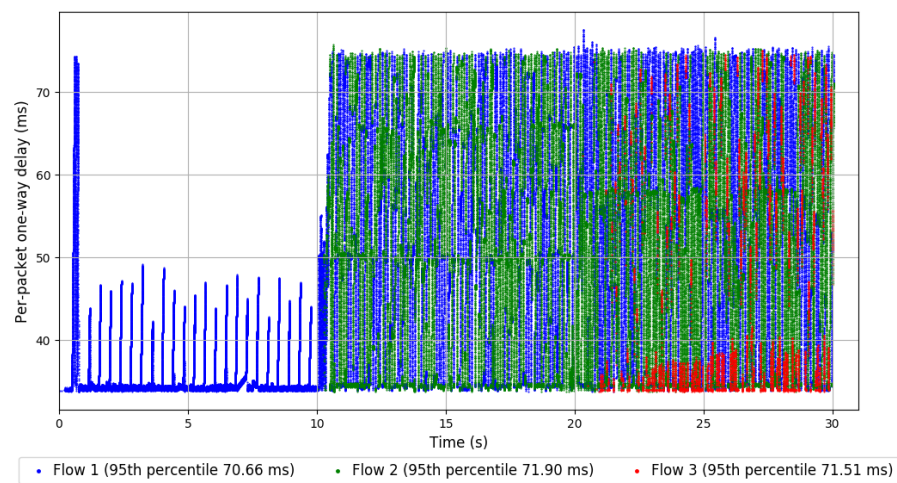
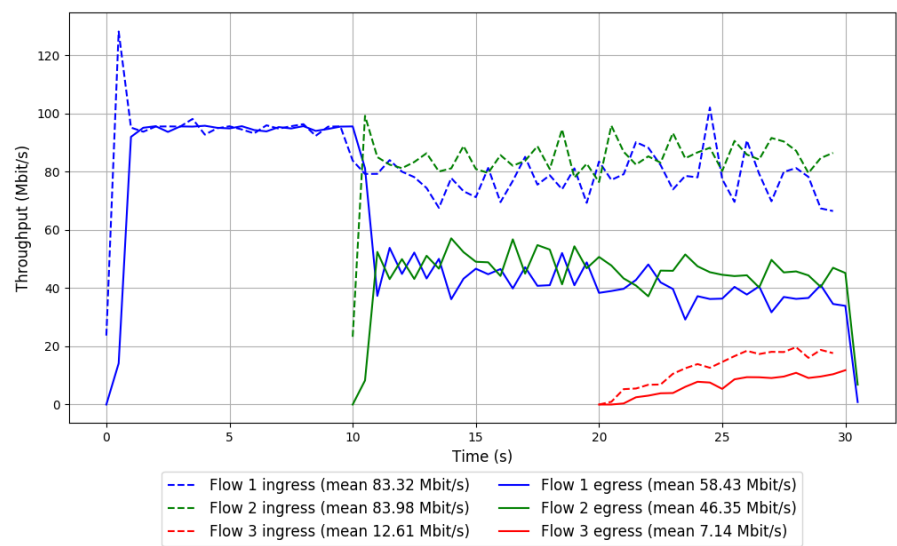
-- Flow 3:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 71.506 ms

Loss rate: 44.64%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-24 10:02:18

End at: 2019-11-24 10:02:48

Local clock offset: 2.852 ms

Remote clock offset: 4.262 ms

# Below is generated by plot.py at 2019-11-24 11:28:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.68 Mbit/s

95th percentile per-packet one-way delay: 71.460 ms

Loss rate: 38.20%

-- Flow 1:

Average throughput: 58.28 Mbit/s

95th percentile per-packet one-way delay: 69.903 ms

Loss rate: 30.07%

-- Flow 2:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 72.683 ms

Loss rate: 46.87%

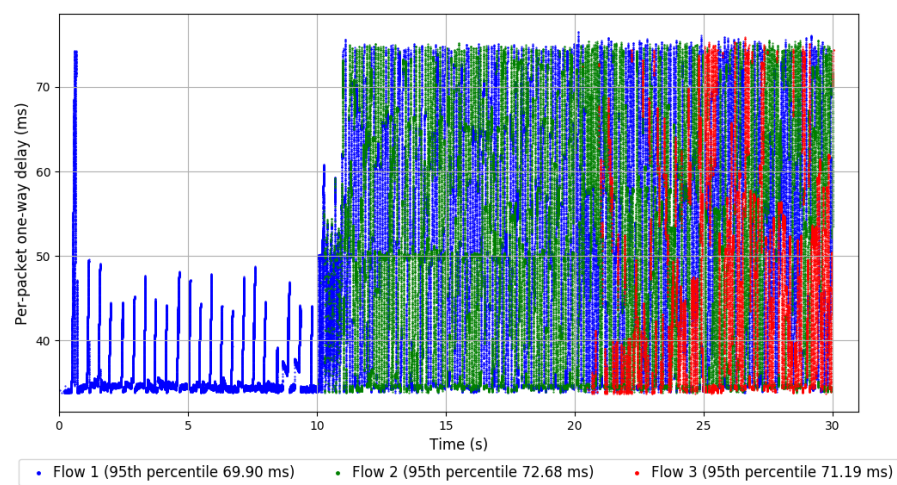
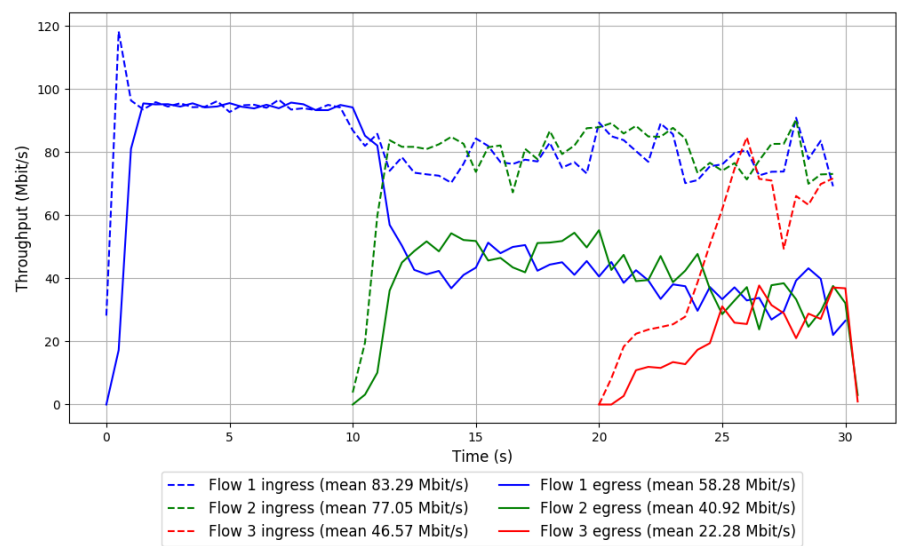
-- Flow 3:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 71.189 ms

Loss rate: 53.17%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-24 10:44:33

End at: 2019-11-24 10:45:03

Local clock offset: 2.615 ms

Remote clock offset: 3.953 ms

# Below is generated by plot.py at 2019-11-24 11:28:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 70.953 ms

Loss rate: 38.16%

-- Flow 1:

Average throughput: 57.20 Mbit/s

95th percentile per-packet one-way delay: 69.607 ms

Loss rate: 29.18%

-- Flow 2:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 72.389 ms

Loss rate: 47.32%

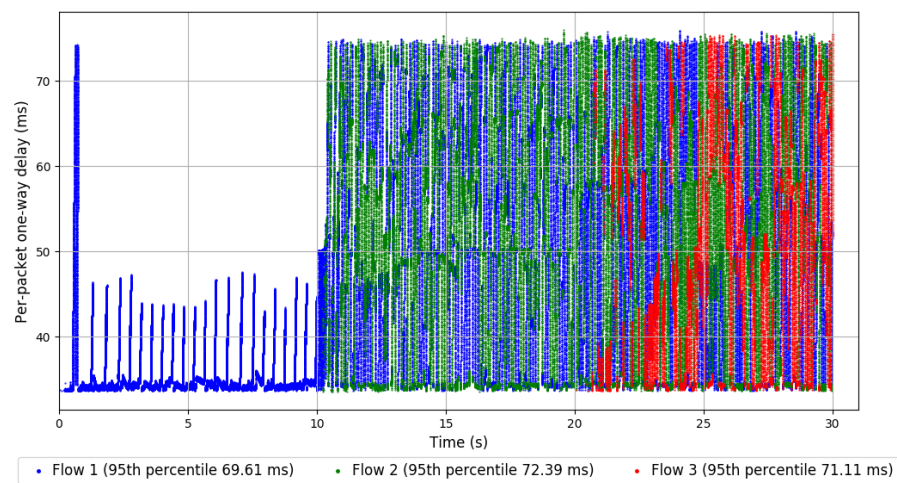
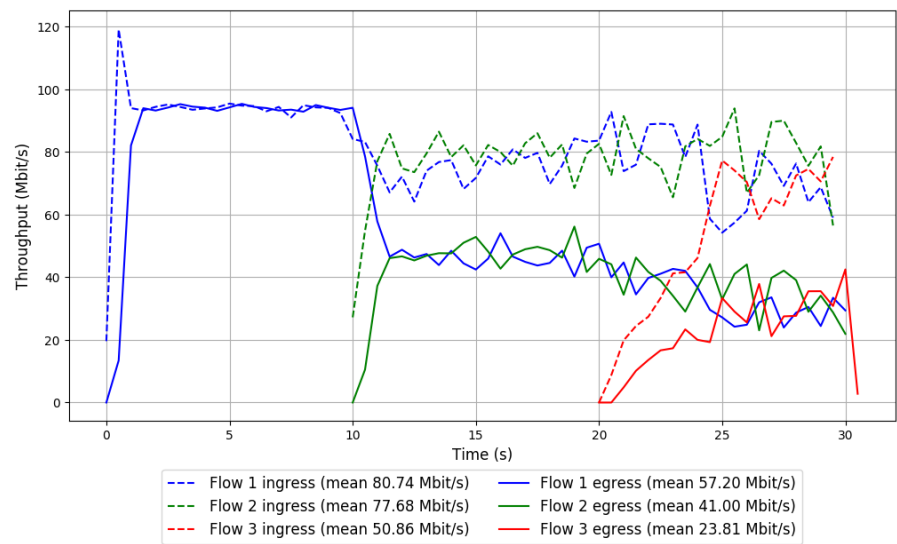
-- Flow 3:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 71.110 ms

Loss rate: 53.02%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 08:17:54

End at: 2019-11-24 08:18:24

Local clock offset: 3.489 ms

Remote clock offset: 4.022 ms

# Below is generated by plot.py at 2019-11-24 11:28:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.88 Mbit/s

95th percentile per-packet one-way delay: 68.620 ms

Loss rate: 10.89%

-- Flow 1:

Average throughput: 54.74 Mbit/s

95th percentile per-packet one-way delay: 66.962 ms

Loss rate: 8.16%

-- Flow 2:

Average throughput: 44.65 Mbit/s

95th percentile per-packet one-way delay: 70.074 ms

Loss rate: 14.69%

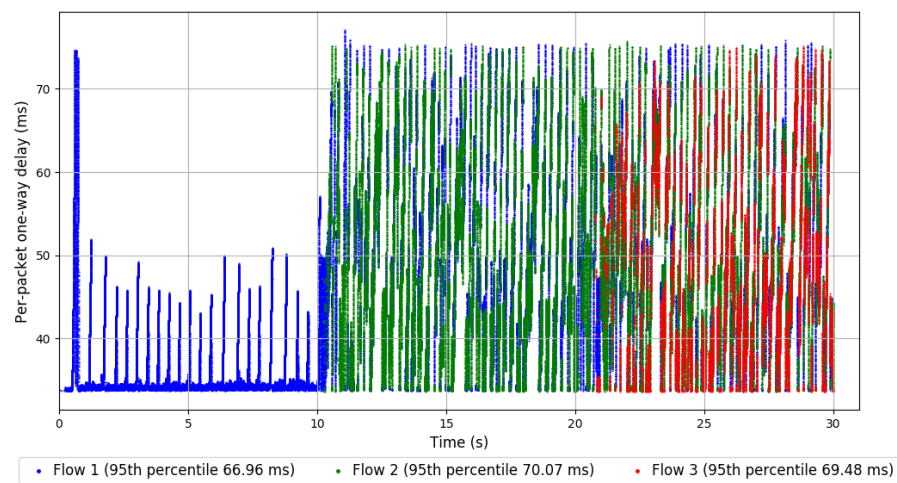
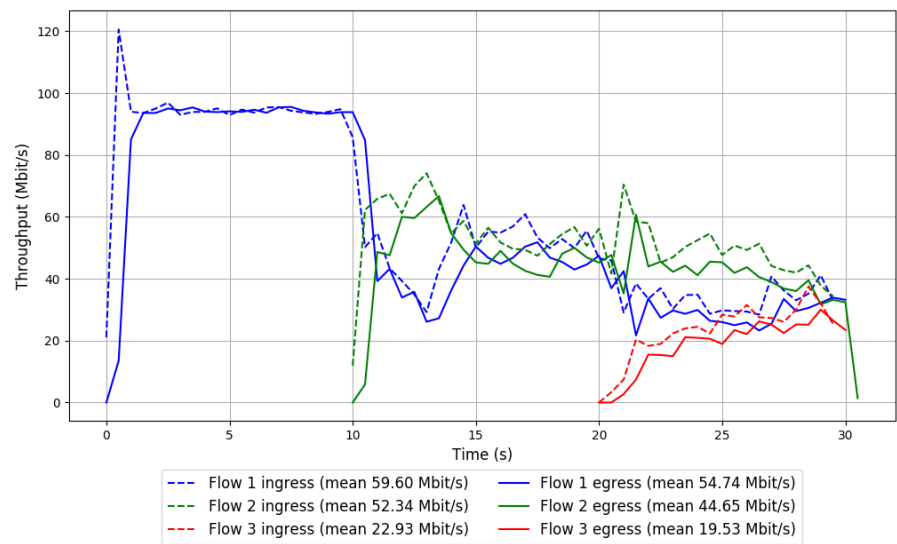
-- Flow 3:

Average throughput: 19.53 Mbit/s

95th percentile per-packet one-way delay: 69.484 ms

Loss rate: 14.89%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 09:11:58

End at: 2019-11-24 09:12:28

Local clock offset: 3.18 ms

Remote clock offset: 4.284 ms

# Below is generated by plot.py at 2019-11-24 11:29:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 68.732 ms

Loss rate: 12.55%

-- Flow 1:

Average throughput: 53.84 Mbit/s

95th percentile per-packet one-way delay: 66.501 ms

Loss rate: 8.73%

-- Flow 2:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 70.335 ms

Loss rate: 16.64%

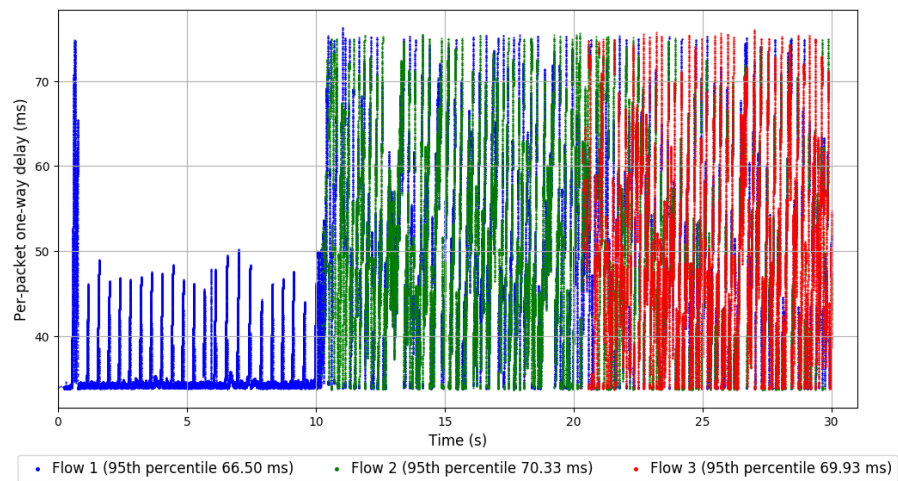
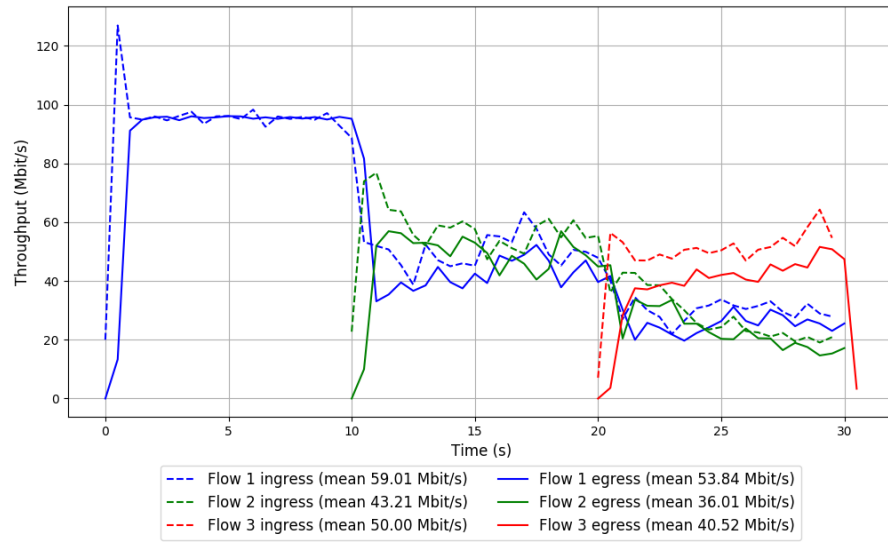
-- Flow 3:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 69.932 ms

Loss rate: 19.02%

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



Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 09:52:17

End at: 2019-11-24 09:52:47

Local clock offset: 2.92 ms

Remote clock offset: 4.251 ms

# Below is generated by plot.py at 2019-11-24 11:29:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.71 Mbit/s

95th percentile per-packet one-way delay: 68.308 ms

Loss rate: 11.73%

-- Flow 1:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 66.272 ms

Loss rate: 8.41%

-- Flow 2:

Average throughput: 36.65 Mbit/s

95th percentile per-packet one-way delay: 69.981 ms

Loss rate: 16.48%

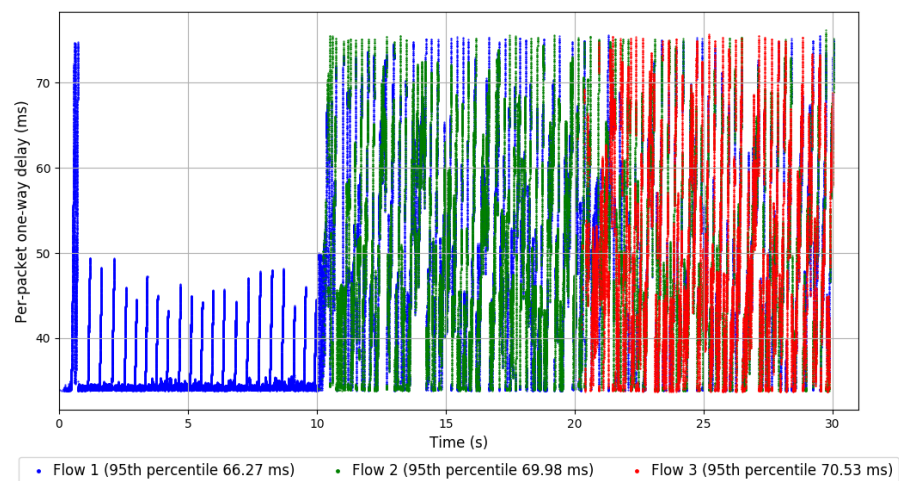
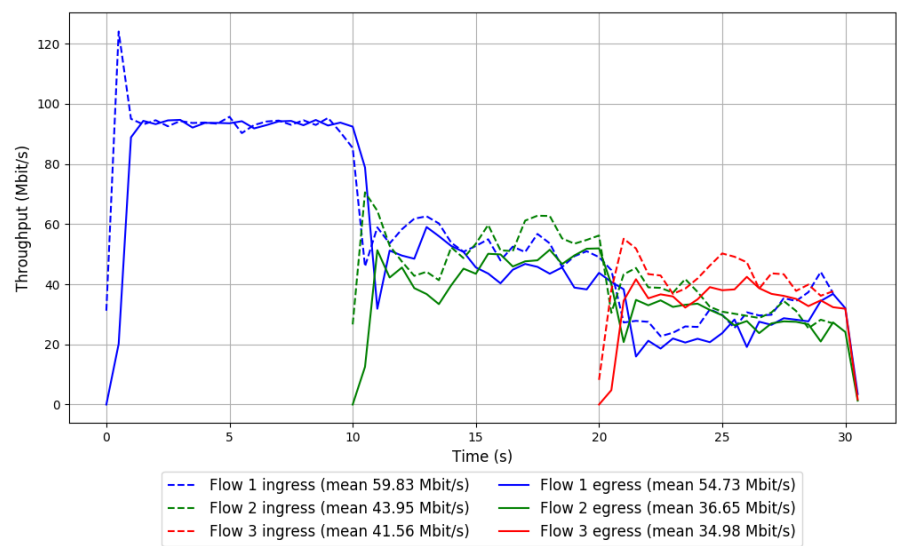
-- Flow 3:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 70.535 ms

Loss rate: 16.07%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 10:34:14

End at: 2019-11-24 10:34:44

Local clock offset: 2.622 ms

Remote clock offset: 4.163 ms

# Below is generated by plot.py at 2019-11-24 11:29:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.71 Mbit/s

95th percentile per-packet one-way delay: 68.944 ms

Loss rate: 11.70%

-- Flow 1:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 67.088 ms

Loss rate: 8.74%

-- Flow 2:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 70.235 ms

Loss rate: 15.03%

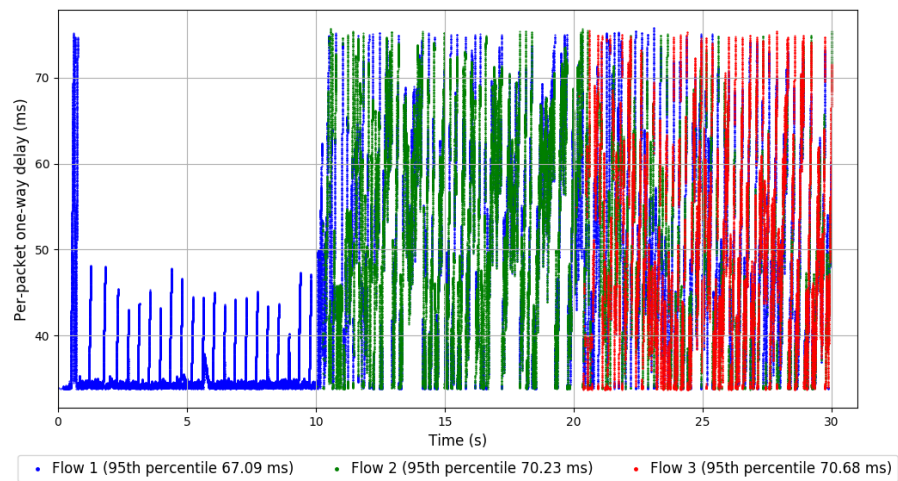
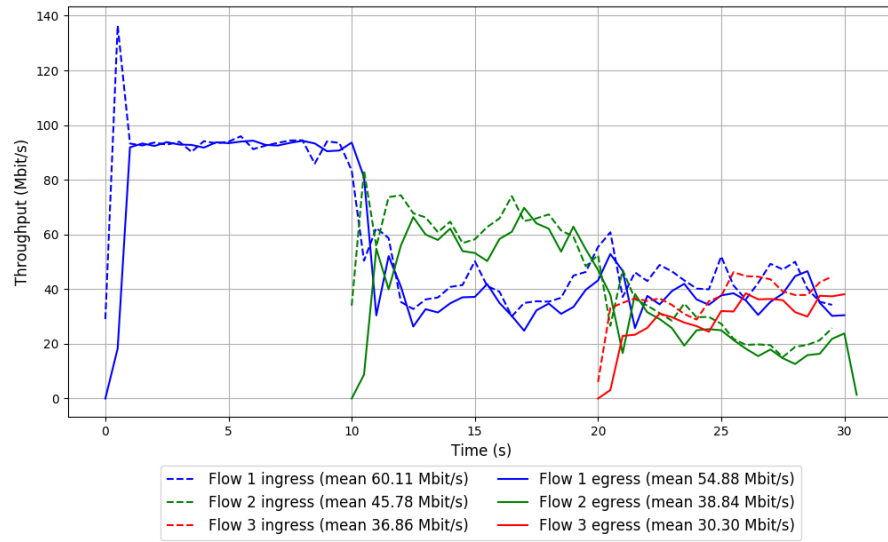
-- Flow 3:

Average throughput: 30.30 Mbit/s

95th percentile per-packet one-way delay: 70.679 ms

Loss rate: 17.92%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 11:16:17

End at: 2019-11-24 11:16:47

Local clock offset: 2.754 ms

Remote clock offset: 3.968 ms

# Below is generated by plot.py at 2019-11-24 11:29:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 68.626 ms

Loss rate: 12.75%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 67.313 ms

Loss rate: 9.53%

-- Flow 2:

Average throughput: 42.17 Mbit/s

95th percentile per-packet one-way delay: 69.979 ms

Loss rate: 17.81%

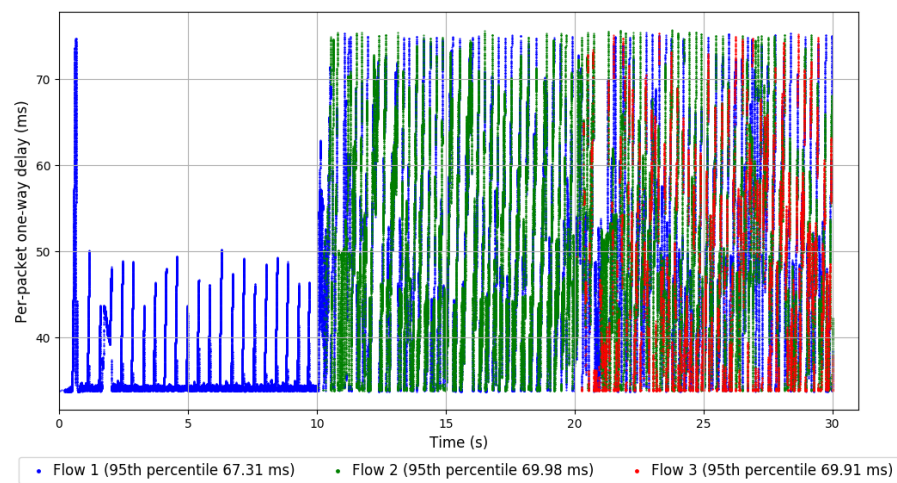
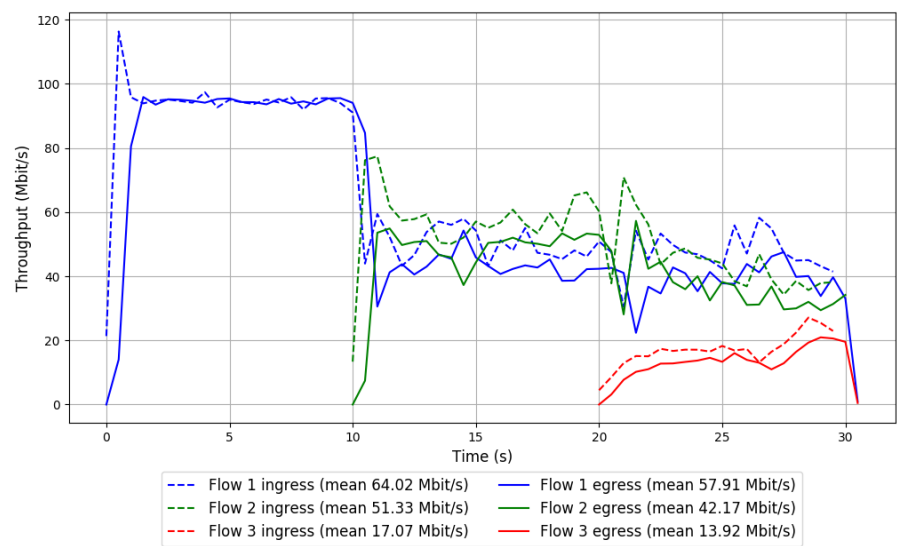
-- Flow 3:

Average throughput: 13.92 Mbit/s

95th percentile per-packet one-way delay: 69.905 ms

Loss rate: 18.55%

Run 5: Report of FillP-Sheep — Data Link

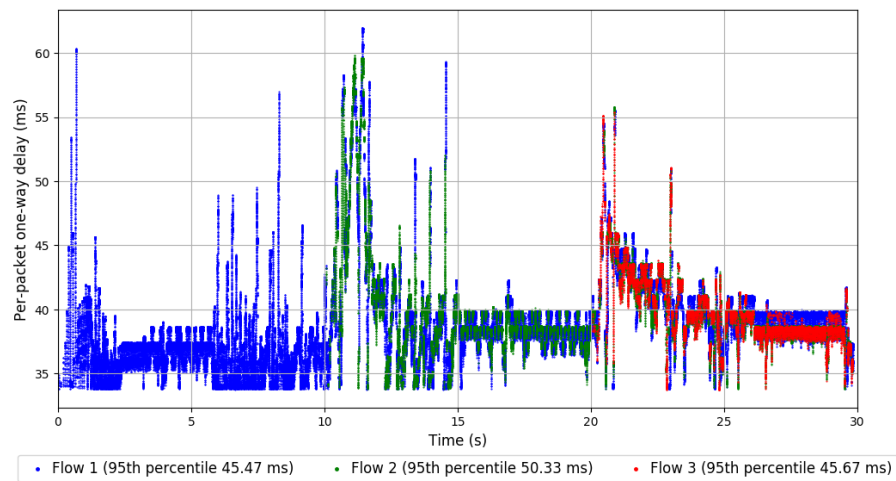
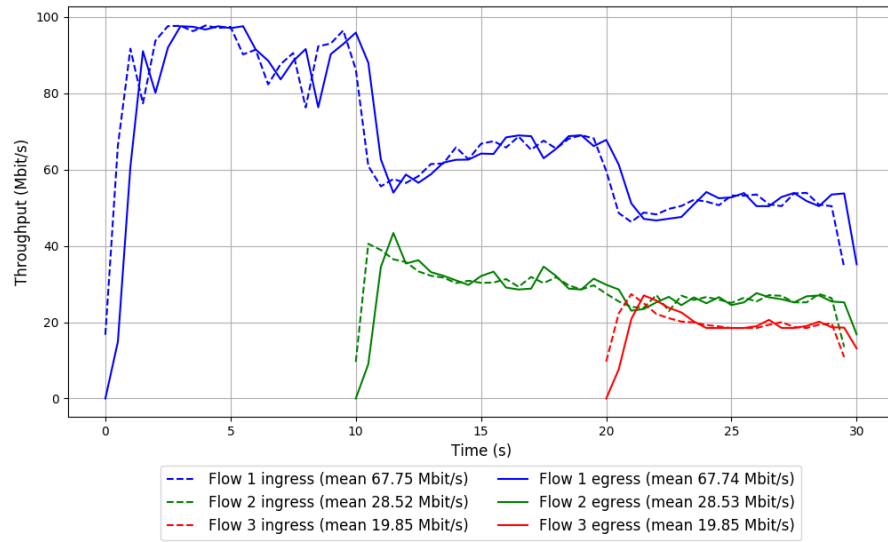


```
Run 1: Statistics of Indigo

Start at: 2019-11-24 08:25:39
End at: 2019-11-24 08:26:09
Local clock offset: 3.246 ms
Remote clock offset: 3.944 ms

# Below is generated by plot.py at 2019-11-24 11:29:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 45.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.74 Mbit/s
95th percentile per-packet one-way delay: 45.473 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.53 Mbit/s
95th percentile per-packet one-way delay: 50.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.85 Mbit/s
95th percentile per-packet one-way delay: 45.670 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-11-24 09:17:06

End at: 2019-11-24 09:17:36

Local clock offset: 3.15 ms

Remote clock offset: 4.308 ms

# Below is generated by plot.py at 2019-11-24 11:29:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 48.399 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 44.902 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.10 Mbit/s

95th percentile per-packet one-way delay: 50.214 ms

Loss rate: 0.00%

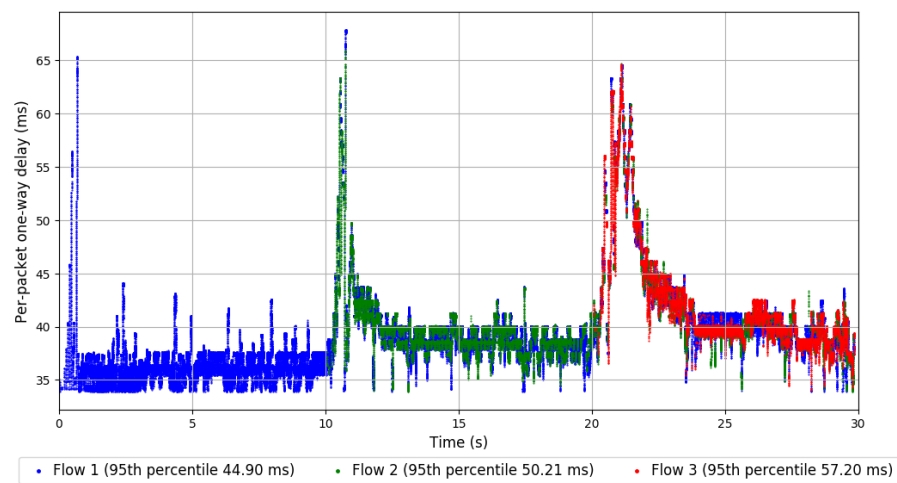
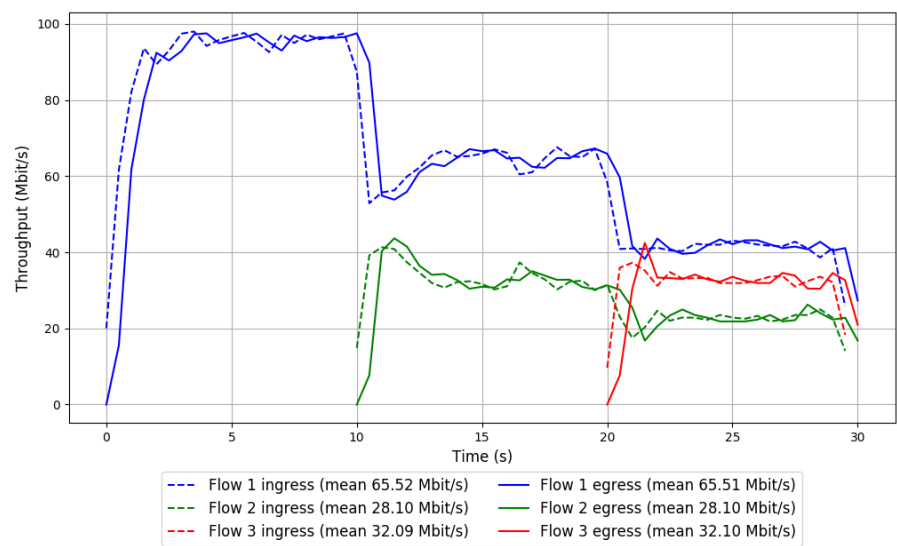
-- Flow 3:

Average throughput: 32.10 Mbit/s

95th percentile per-packet one-way delay: 57.204 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-11-24 09:55:43

End at: 2019-11-24 09:56:13

Local clock offset: 2.893 ms

Remote clock offset: 4.224 ms

# Below is generated by plot.py at 2019-11-24 11:29:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 45.707 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.83 Mbit/s

95th percentile per-packet one-way delay: 44.507 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.91 Mbit/s

95th percentile per-packet one-way delay: 47.292 ms

Loss rate: 0.00%

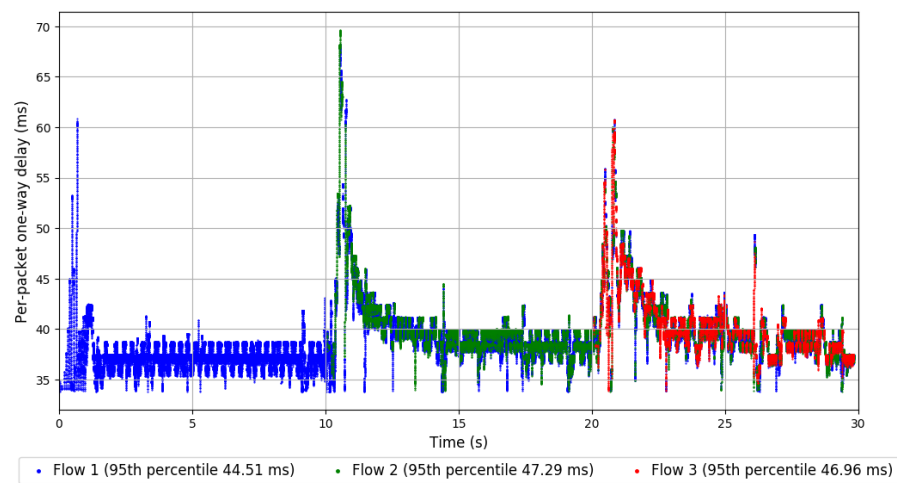
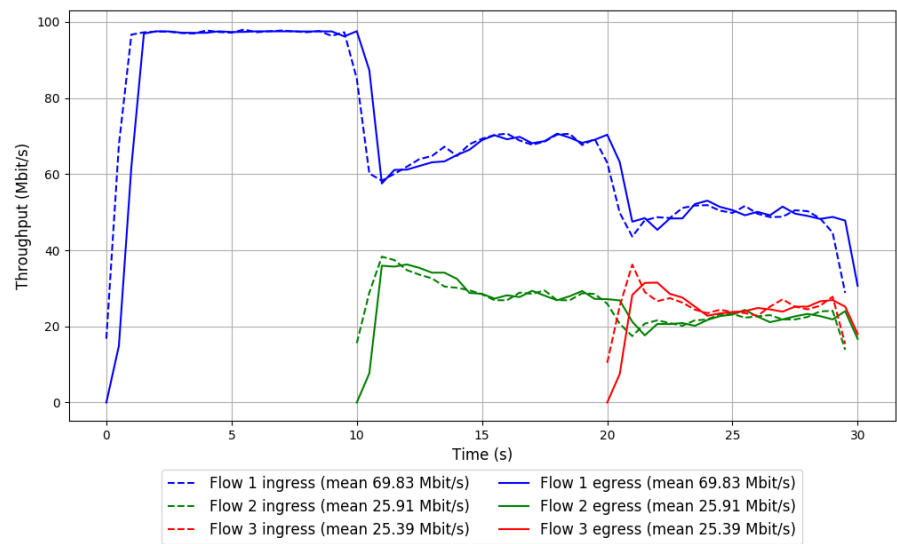
-- Flow 3:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 46.962 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-11-24 10:37:56

End at: 2019-11-24 10:38:26

Local clock offset: 2.58 ms

Remote clock offset: 4.038 ms

# Below is generated by plot.py at 2019-11-24 11:29:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 47.930 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 44.348 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 21.60 Mbit/s

95th percentile per-packet one-way delay: 50.160 ms

Loss rate: 0.15%

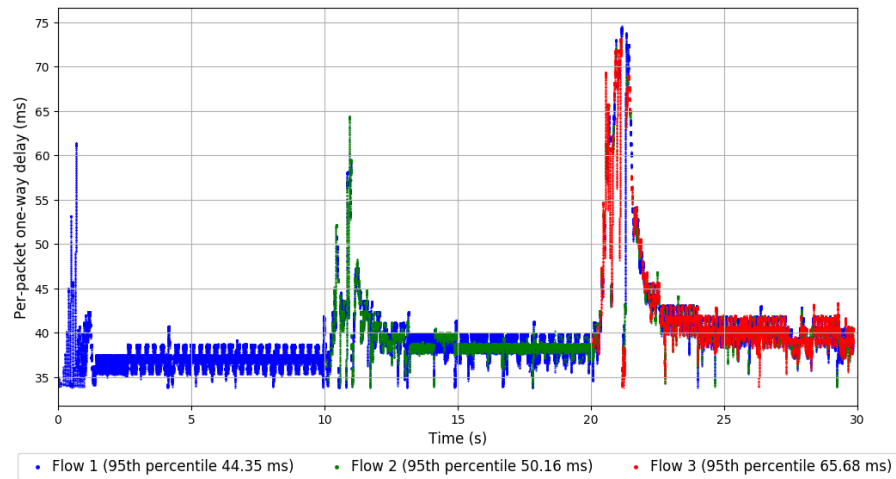
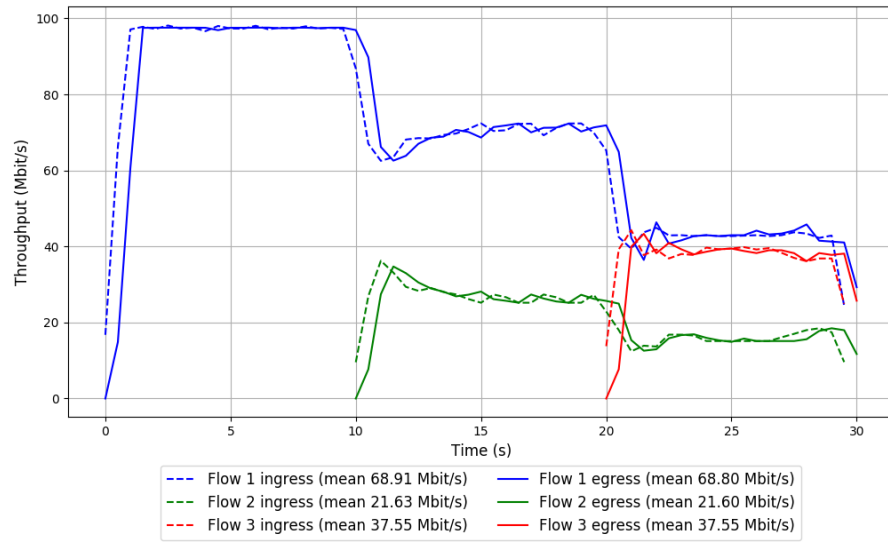
-- Flow 3:

Average throughput: 37.55 Mbit/s

95th percentile per-packet one-way delay: 65.682 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo

Start at: 2019-11-24 11:20:02

End at: 2019-11-24 11:20:33

Local clock offset: 2.794 ms

Remote clock offset: 4.033 ms

# Below is generated by plot.py at 2019-11-24 11:30:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 43.334 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 42.164 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.90 Mbit/s

95th percentile per-packet one-way delay: 43.866 ms

Loss rate: 0.00%

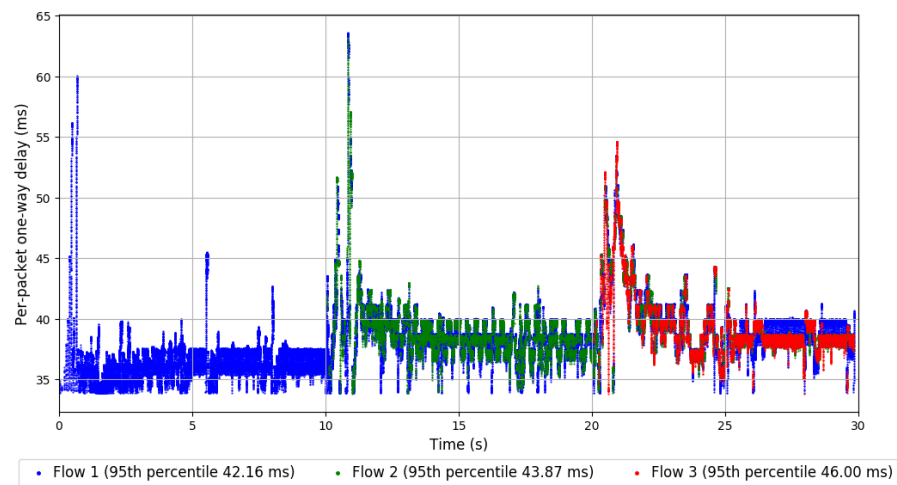
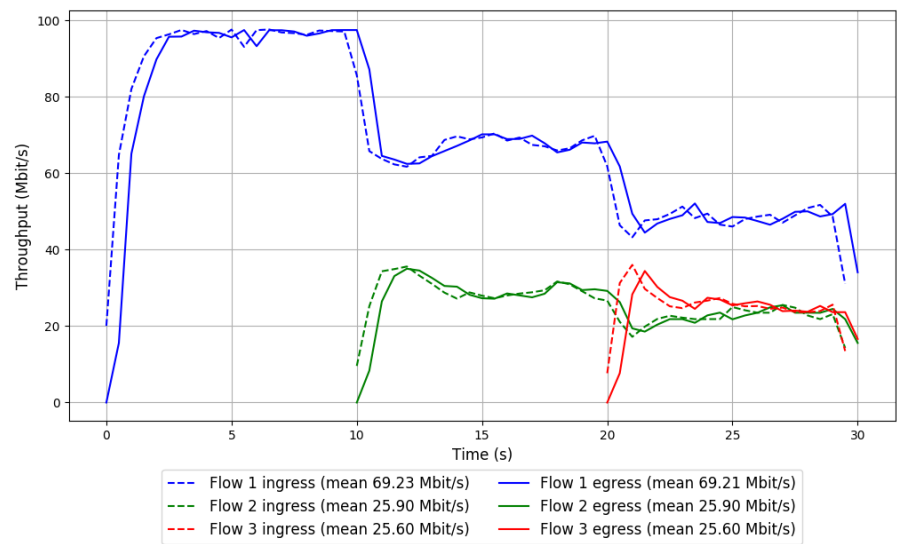
-- Flow 3:

Average throughput: 25.60 Mbit/s

95th percentile per-packet one-way delay: 46.003 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 07:57:16

End at: 2019-11-24 07:57:46

Local clock offset: 4.059 ms

Remote clock offset: 4.37 ms

# Below is generated by plot.py at 2019-11-24 11:30:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 53.311 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 58.60 Mbit/s

95th percentile per-packet one-way delay: 48.959 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 54.378 ms

Loss rate: 0.29%

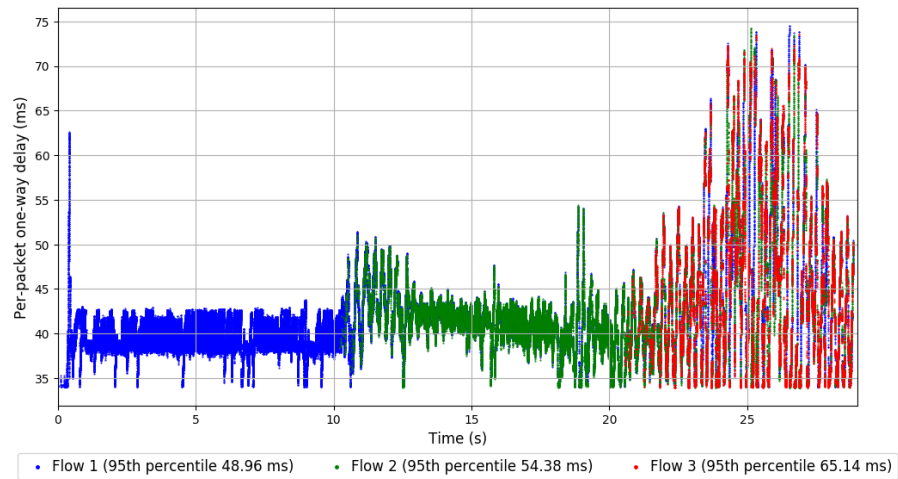
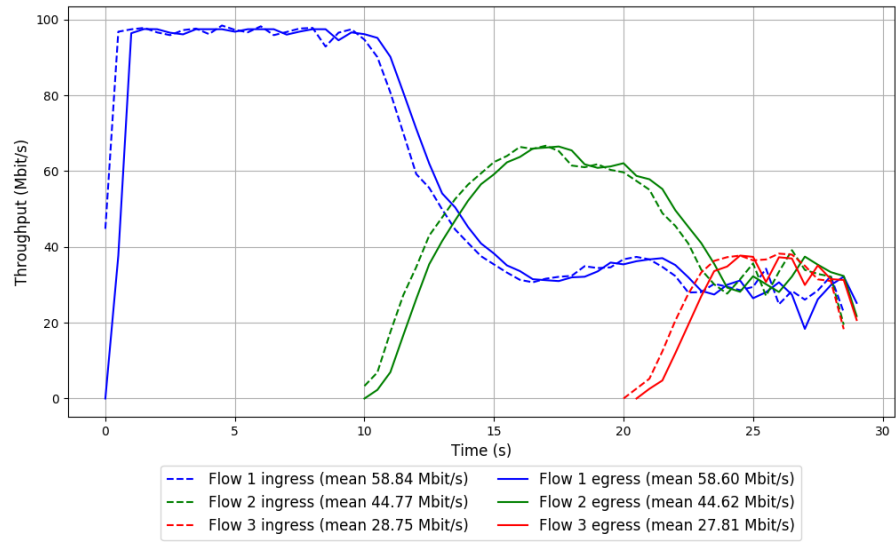
-- Flow 3:

Average throughput: 27.81 Mbit/s

95th percentile per-packet one-way delay: 65.137 ms

Loss rate: 3.22%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 08:59:07

End at: 2019-11-24 08:59:37

Local clock offset: 3.188 ms

Remote clock offset: 4.433 ms

# Below is generated by plot.py at 2019-11-24 11:30:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 52.580 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 60.26 Mbit/s

95th percentile per-packet one-way delay: 47.328 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.27%

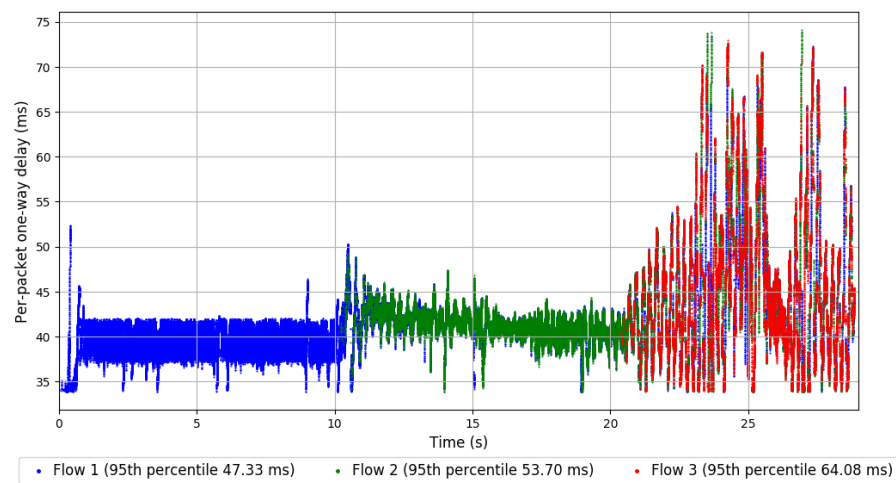
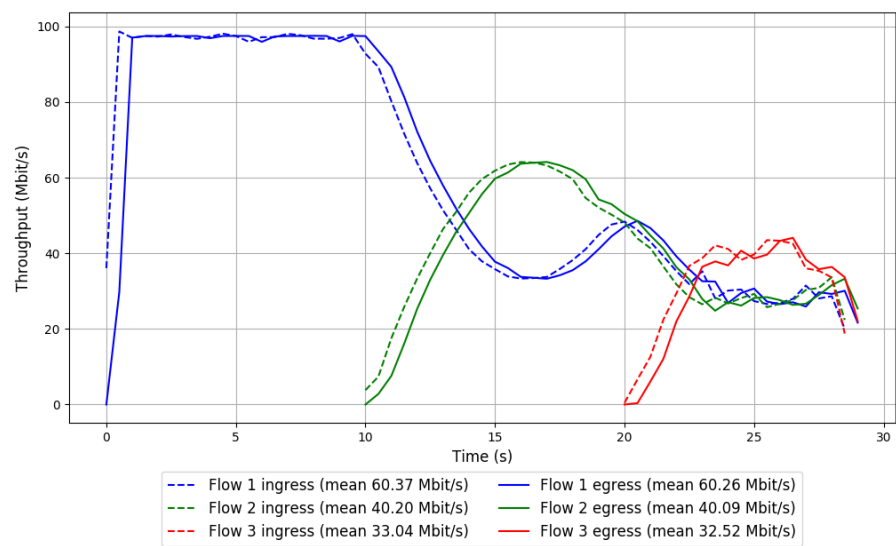
-- Flow 3:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 64.079 ms

Loss rate: 1.50%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 09:42:14

End at: 2019-11-24 09:42:44

Local clock offset: 3.056 ms

Remote clock offset: 4.239 ms

# Below is generated by plot.py at 2019-11-24 11:30:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 52.162 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 54.04 Mbit/s

95th percentile per-packet one-way delay: 49.059 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 52.957 ms

Loss rate: 0.35%

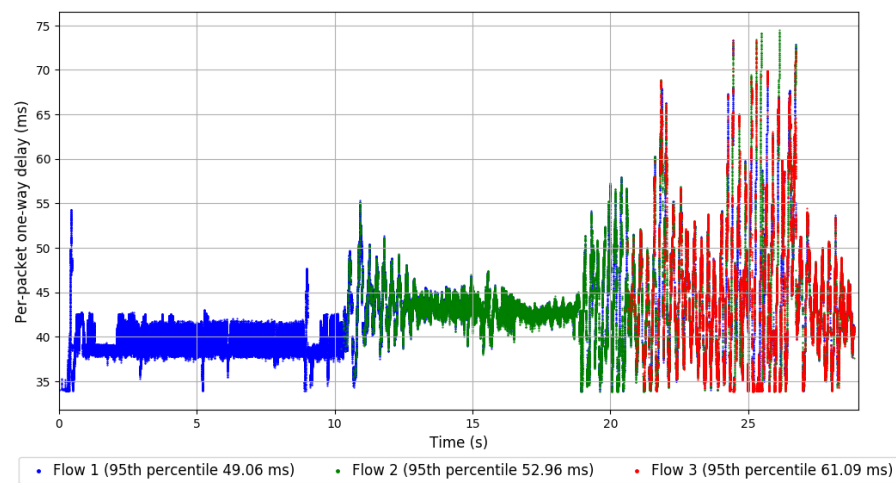
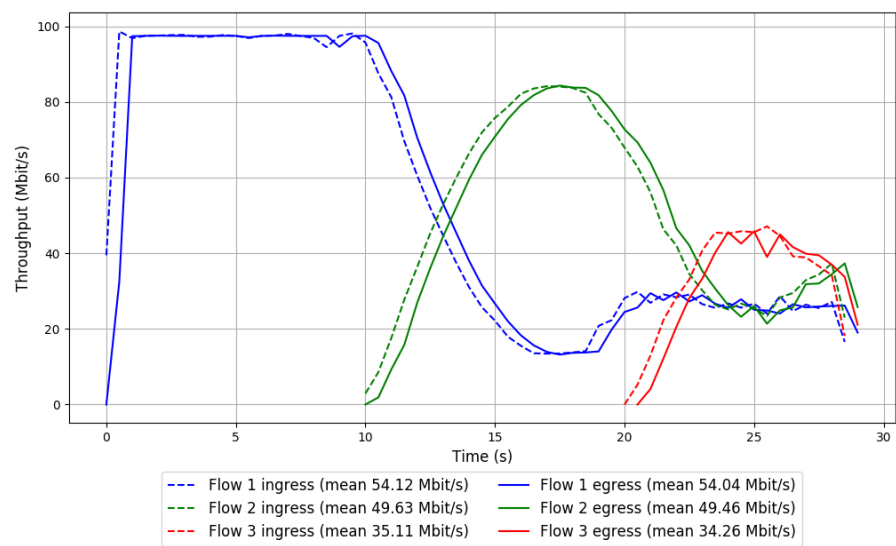
-- Flow 3:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 61.090 ms

Loss rate: 2.44%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 10:23:07

End at: 2019-11-24 10:23:37

Local clock offset: 2.685 ms

Remote clock offset: 4.193 ms

# Below is generated by plot.py at 2019-11-24 11:30:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 51.515 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 47.797 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 45.43 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.18%

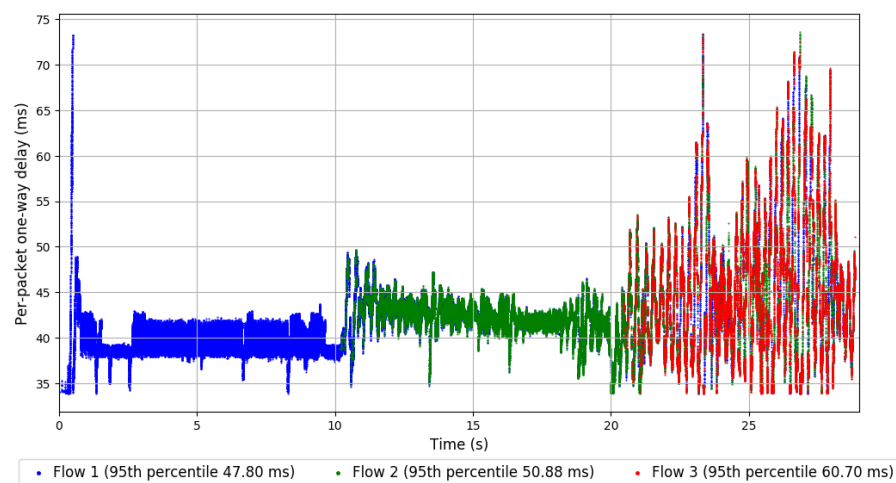
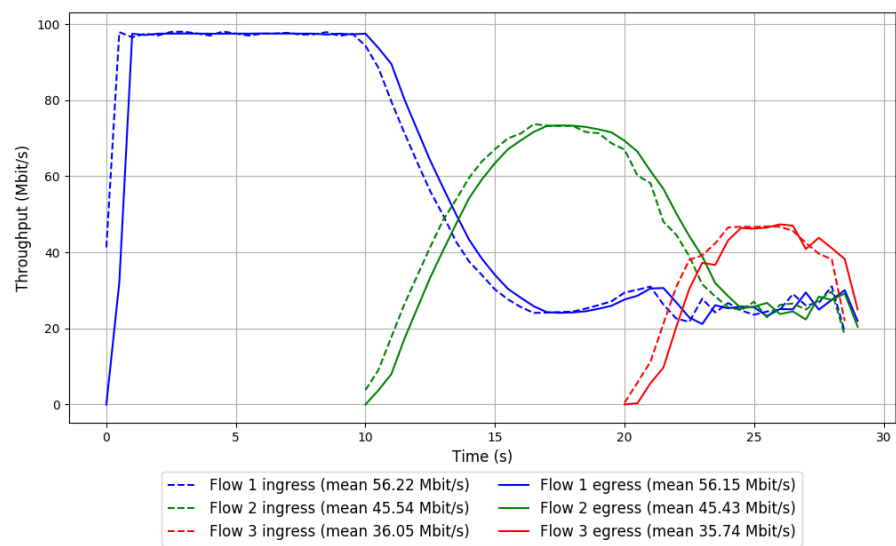
-- Flow 3:

Average throughput: 35.74 Mbit/s

95th percentile per-packet one-way delay: 60.701 ms

Loss rate: 0.73%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 11:05:13

End at: 2019-11-24 11:05:43

Local clock offset: 2.705 ms

Remote clock offset: 4.053 ms

# Below is generated by plot.py at 2019-11-24 11:30:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 51.989 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 49.73 Mbit/s

95th percentile per-packet one-way delay: 48.047 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 55.16 Mbit/s

95th percentile per-packet one-way delay: 52.225 ms

Loss rate: 0.26%

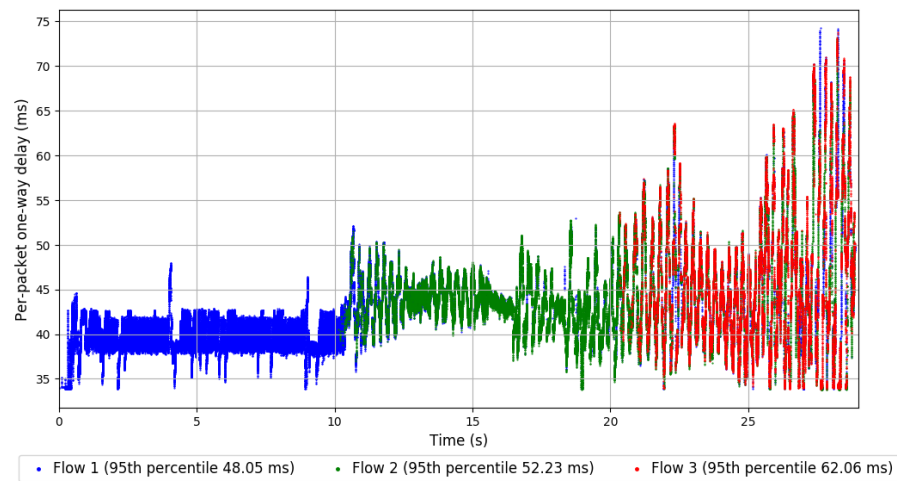
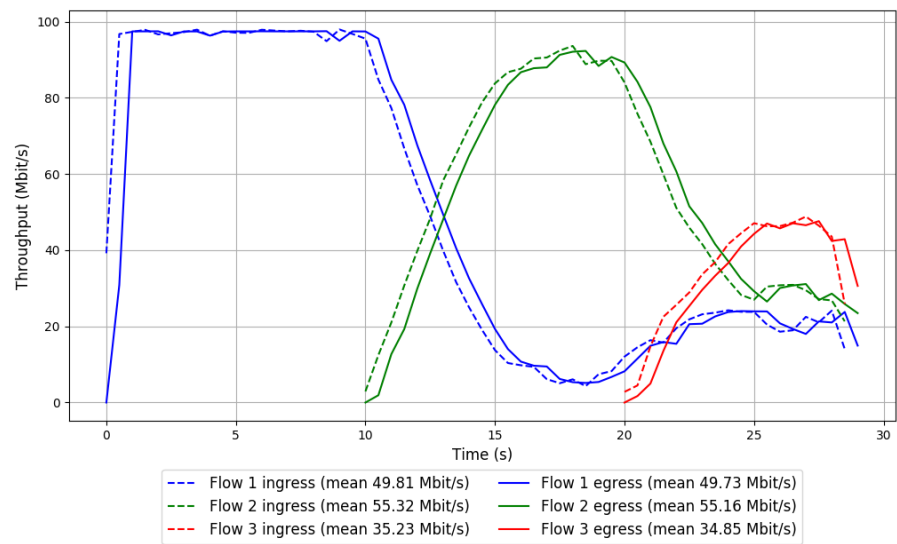
-- Flow 3:

Average throughput: 34.85 Mbit/s

95th percentile per-packet one-way delay: 62.059 ms

Loss rate: 0.99%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 07:53:32

End at: 2019-11-24 07:54:02

Local clock offset: 4.062 ms

Remote clock offset: 4.443 ms

# Below is generated by plot.py at 2019-11-24 11:30:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.49 Mbit/s

95th percentile per-packet one-way delay: 68.625 ms

Loss rate: 20.54%

-- Flow 1:

Average throughput: 61.43 Mbit/s

95th percentile per-packet one-way delay: 67.023 ms

Loss rate: 16.35%

-- Flow 2:

Average throughput: 43.85 Mbit/s

95th percentile per-packet one-way delay: 70.206 ms

Loss rate: 28.20%

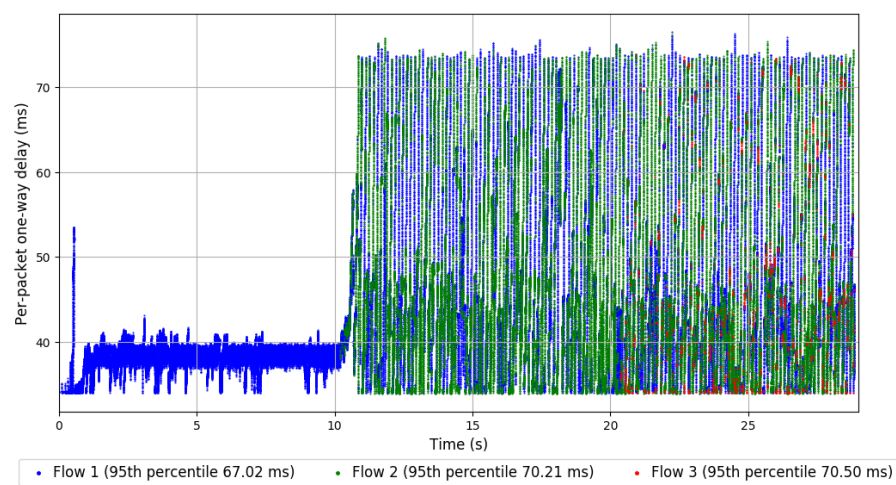
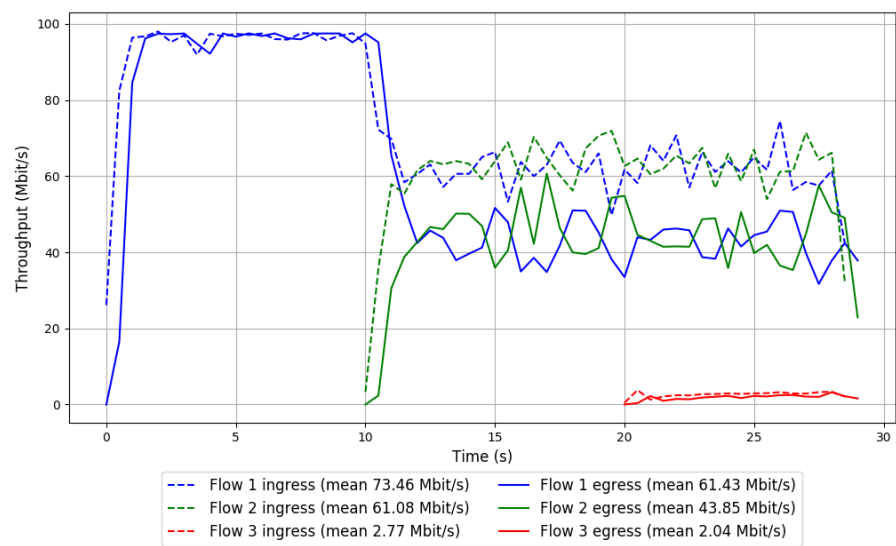
-- Flow 3:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 70.499 ms

Loss rate: 26.60%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 08:57:02

End at: 2019-11-24 08:57:32

Local clock offset: 3.225 ms

Remote clock offset: 4.473 ms

# Below is generated by plot.py at 2019-11-24 11:30:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.09 Mbit/s

95th percentile per-packet one-way delay: 66.002 ms

Loss rate: 13.62%

-- Flow 1:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 64.651 ms

Loss rate: 10.42%

-- Flow 2:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 67.918 ms

Loss rate: 18.42%

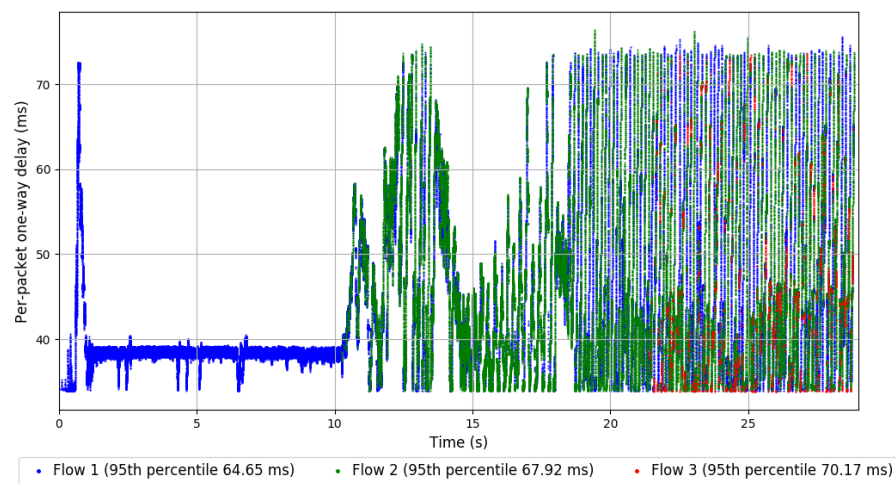
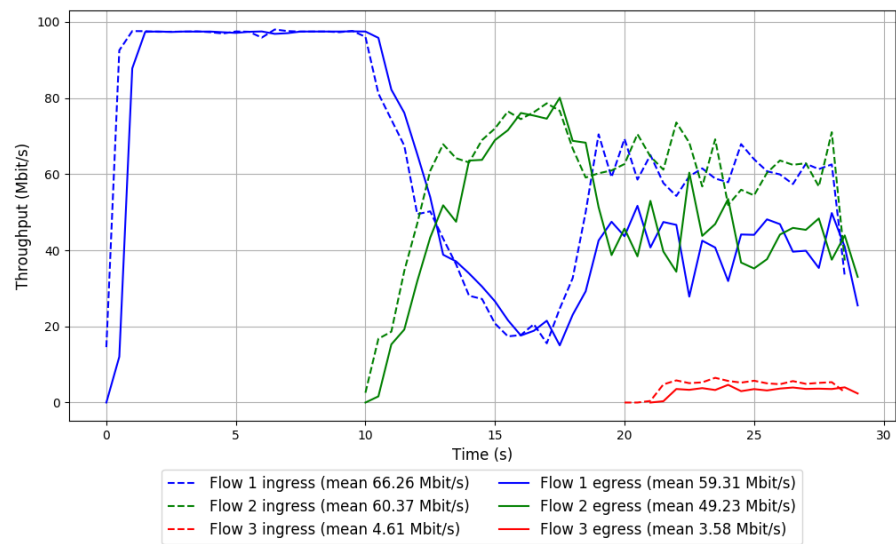
-- Flow 3:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 70.166 ms

Loss rate: 31.65%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 09:40:49

End at: 2019-11-24 09:41:19

Local clock offset: 3.05 ms

Remote clock offset: 4.335 ms

# Below is generated by plot.py at 2019-11-24 11:31:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.74 Mbit/s

95th percentile per-packet one-way delay: 66.262 ms

Loss rate: 13.94%

-- Flow 1:

Average throughput: 59.98 Mbit/s

95th percentile per-packet one-way delay: 64.742 ms

Loss rate: 10.91%

-- Flow 2:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 67.732 ms

Loss rate: 18.99%

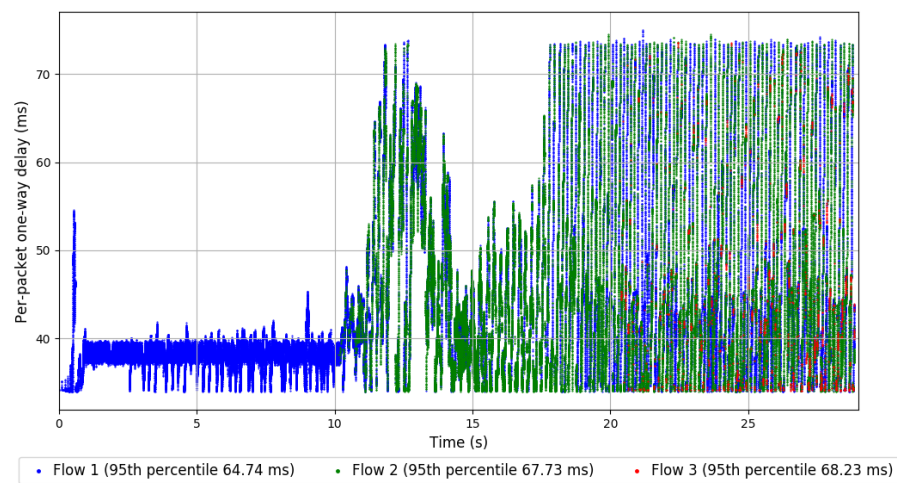
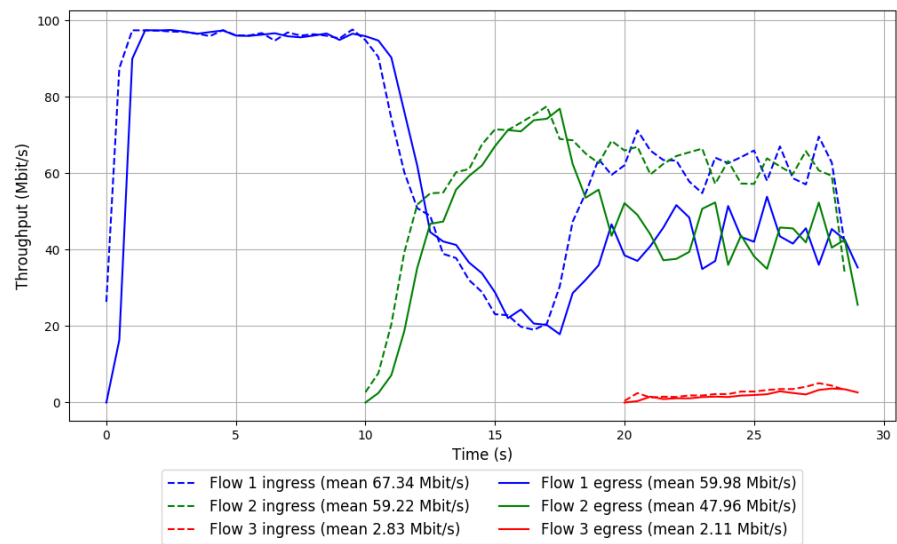
-- Flow 3:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 68.229 ms

Loss rate: 25.45%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 10:20:58

End at: 2019-11-24 10:21:28

Local clock offset: 2.705 ms

Remote clock offset: 4.124 ms

# Below is generated by plot.py at 2019-11-24 11:31:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 68.261 ms

Loss rate: 19.80%

-- Flow 1:

Average throughput: 60.64 Mbit/s

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

Loss rate: 15.47%

-- Flow 2:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 69.993 ms

Loss rate: 27.42%

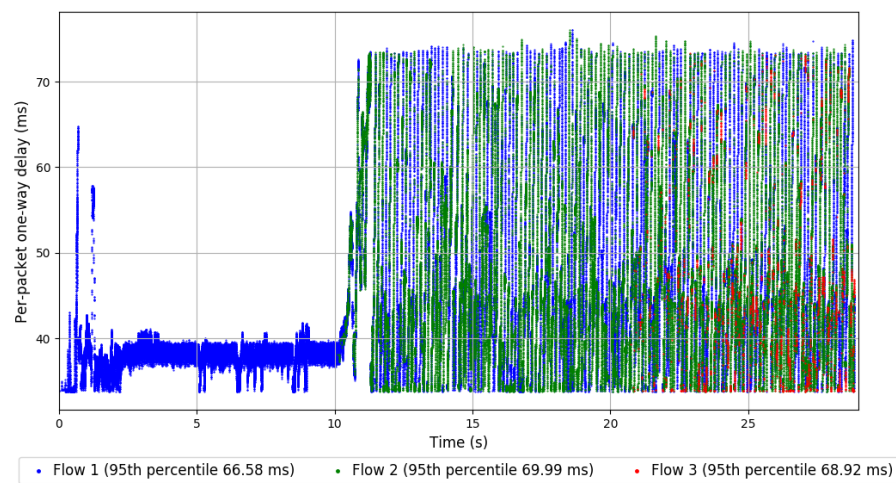
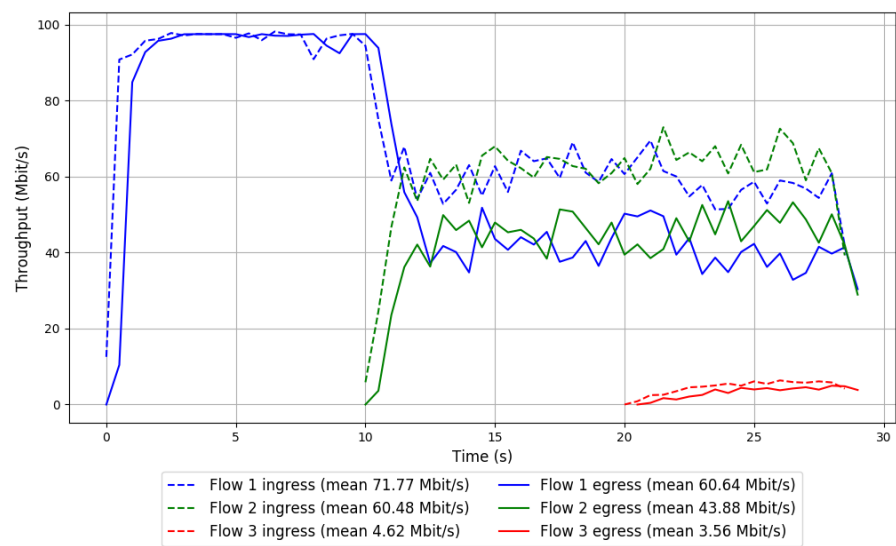
-- Flow 3:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 68.923 ms

Loss rate: 27.48%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 11:03:13

End at: 2019-11-24 11:03:43

Local clock offset: 2.705 ms

Remote clock offset: 3.909 ms

# Below is generated by plot.py at 2019-11-24 11:31:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 66.302 ms

Loss rate: 14.70%

-- Flow 1:

Average throughput: 58.13 Mbit/s

95th percentile per-packet one-way delay: 64.635 ms

Loss rate: 12.01%

-- Flow 2:

Average throughput: 49.84 Mbit/s

95th percentile per-packet one-way delay: 68.371 ms

Loss rate: 18.65%

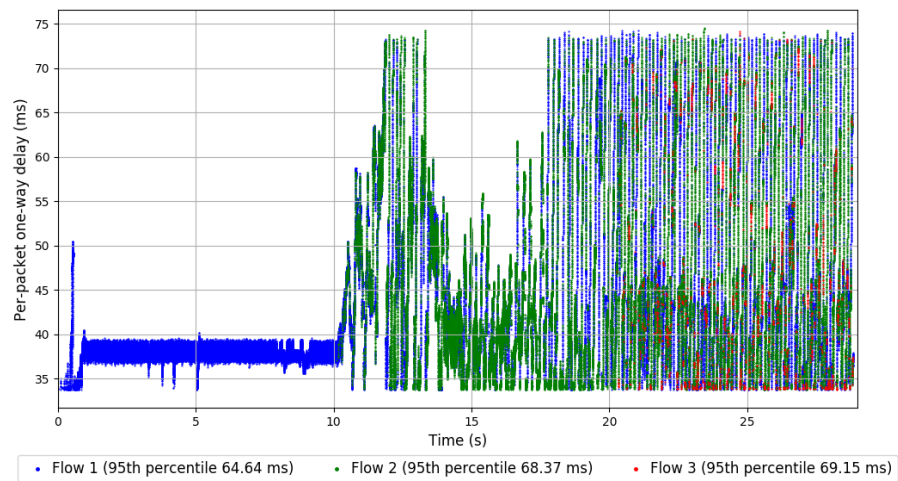
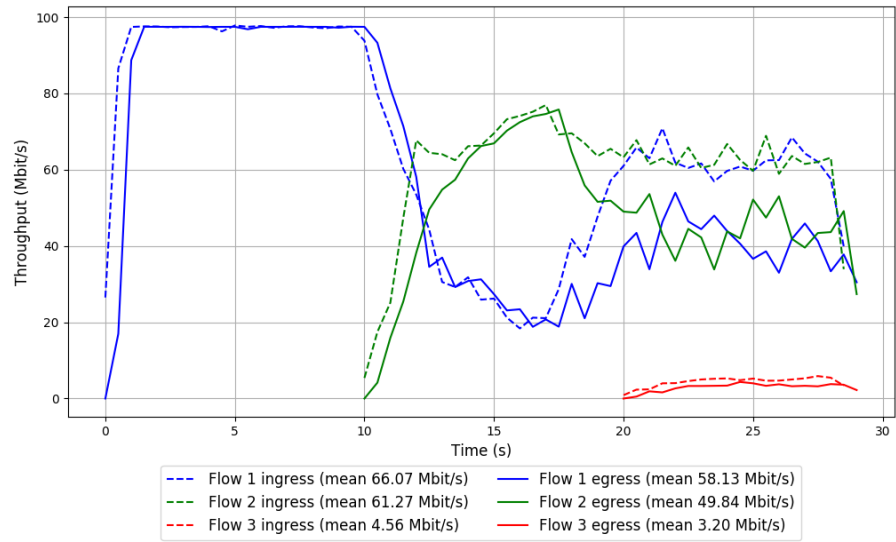
-- Flow 3:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 69.154 ms

Loss rate: 29.89%

# Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 07:28:47

End at: 2019-11-24 07:29:17

Local clock offset: 4.096 ms

Remote clock offset: 4.309 ms

# Below is generated by plot.py at 2019-11-24 11:31:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 40.197 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 39.348 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.83 Mbit/s

95th percentile per-packet one-way delay: 40.692 ms

Loss rate: 0.00%

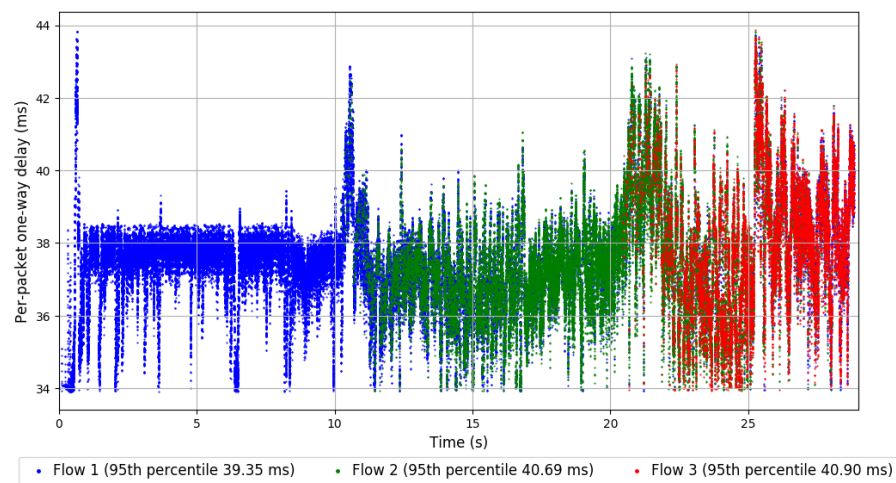
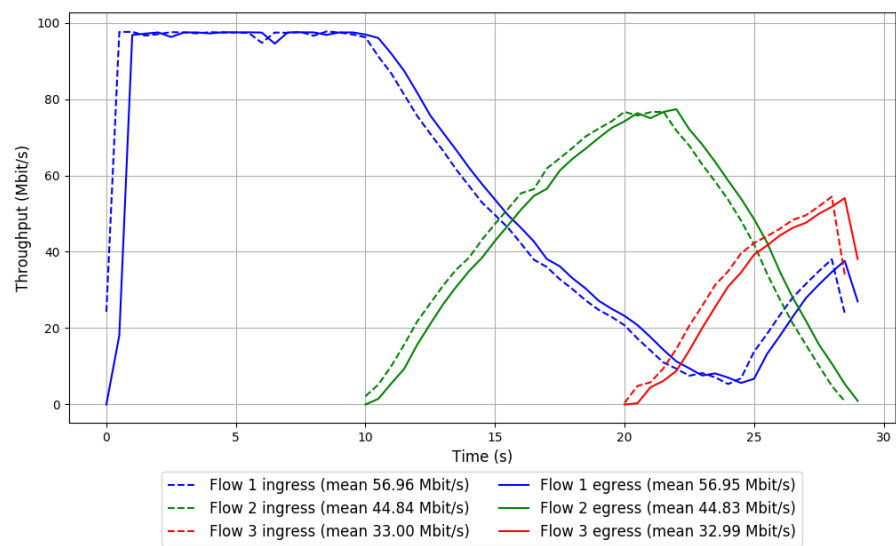
-- Flow 3:

Average throughput: 32.99 Mbit/s

95th percentile per-packet one-way delay: 40.903 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 08:39:00

End at: 2019-11-24 08:39:30

Local clock offset: 3.106 ms

Remote clock offset: 4.17 ms

# Below is generated by plot.py at 2019-11-24 11:31:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.29 Mbit/s

95th percentile per-packet one-way delay: 62.554 ms

Loss rate: 4.28%

-- Flow 1:

Average throughput: 51.96 Mbit/s

95th percentile per-packet one-way delay: 45.064 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 62.00 Mbit/s

95th percentile per-packet one-way delay: 67.208 ms

Loss rate: 7.58%

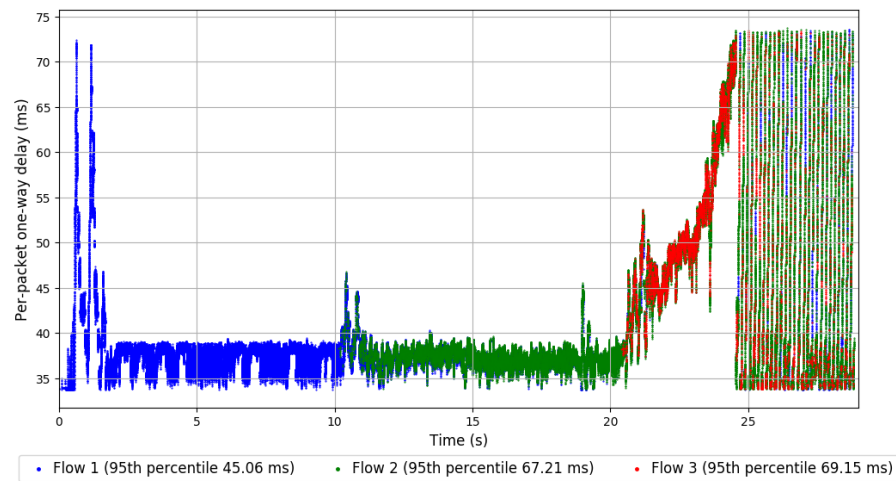
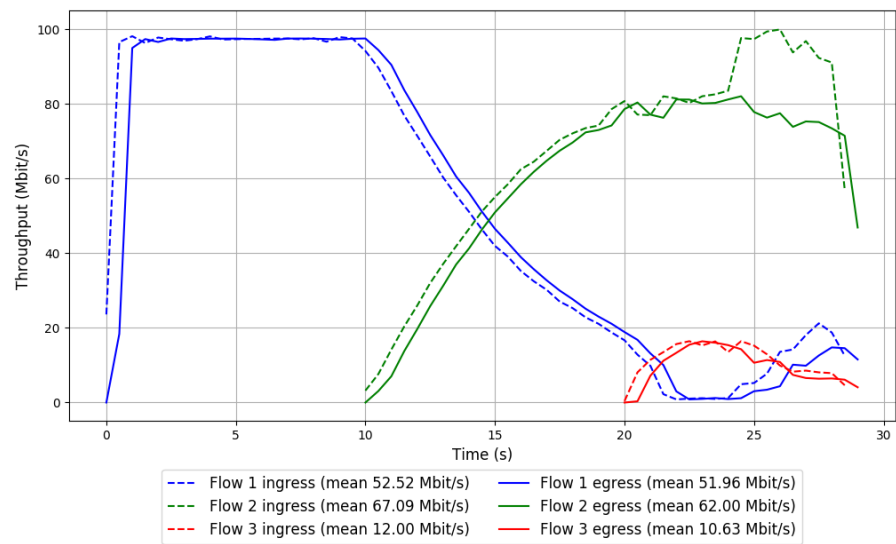
-- Flow 3:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 69.152 ms

Loss rate: 11.40%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 09:27:21

End at: 2019-11-24 09:27:51

Local clock offset: 3.097 ms

Remote clock offset: 4.28 ms

# Below is generated by plot.py at 2019-11-24 11:31:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 41.578 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.53 Mbit/s

95th percentile per-packet one-way delay: 40.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 42.096 ms

Loss rate: 0.00%

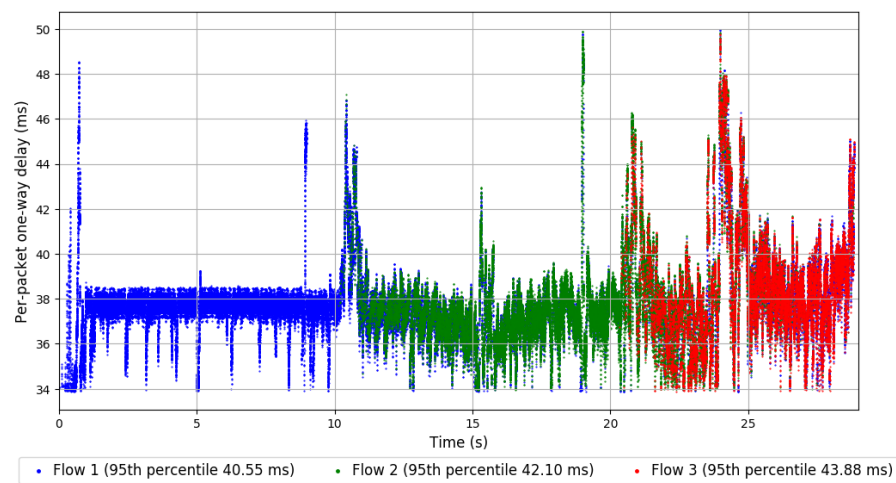
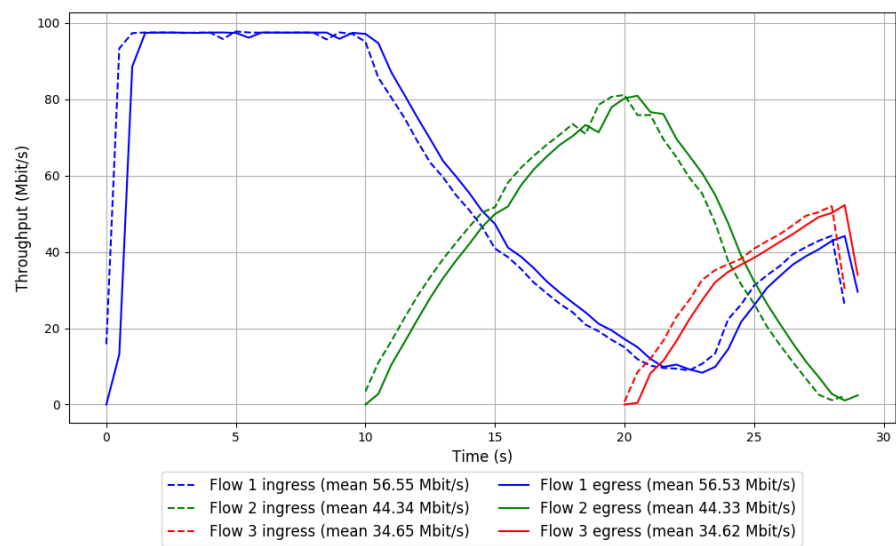
-- Flow 3:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 43.875 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 10:06:42

End at: 2019-11-24 10:07:12

Local clock offset: 2.812 ms

Remote clock offset: 4.332 ms

# Below is generated by plot.py at 2019-11-24 11:31:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 62.819 ms

Loss rate: 3.62%

-- Flow 1:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 40.315 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 67.143 ms

Loss rate: 6.50%

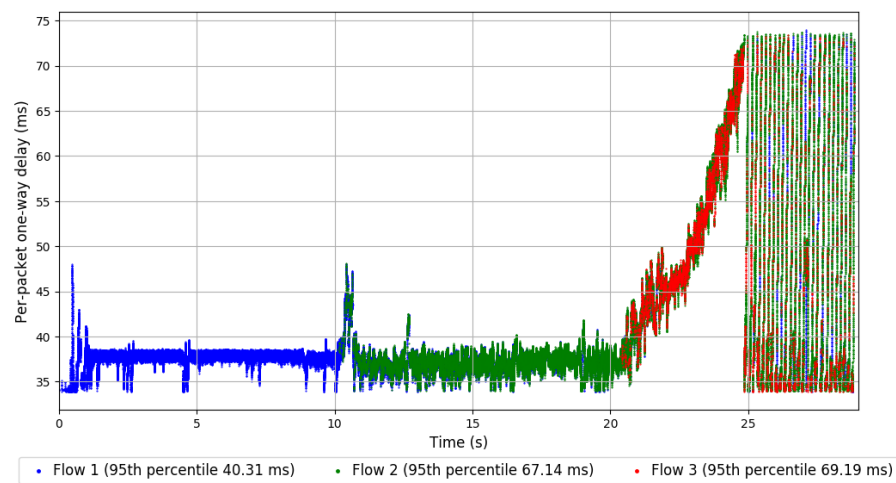
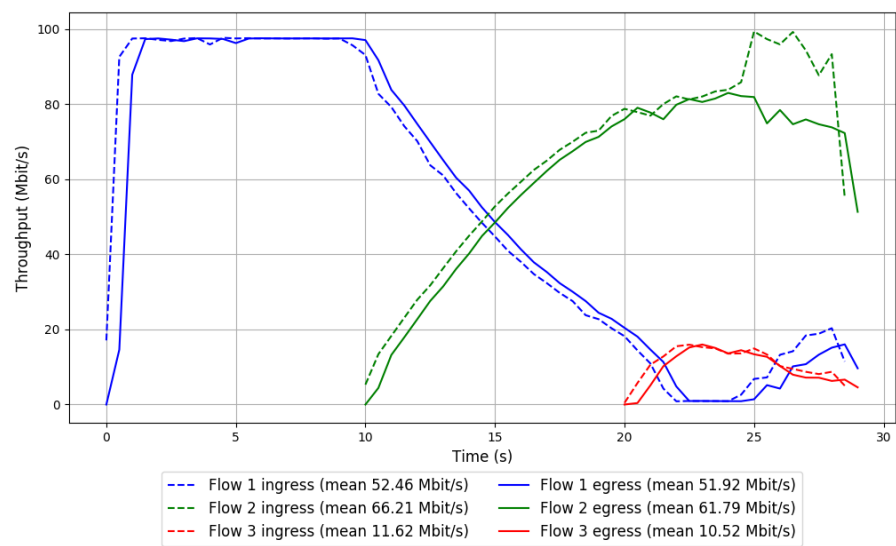
-- Flow 3:

Average throughput: 10.52 Mbit/s

95th percentile per-packet one-way delay: 69.192 ms

Loss rate: 9.10%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 10:48:19

End at: 2019-11-24 10:48:49

Local clock offset: 2.683 ms

Remote clock offset: 3.978 ms

# Below is generated by plot.py at 2019-11-24 11:31:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 40.484 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.98 Mbit/s

95th percentile per-packet one-way delay: 39.899 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.27 Mbit/s

95th percentile per-packet one-way delay: 40.643 ms

Loss rate: 0.00%

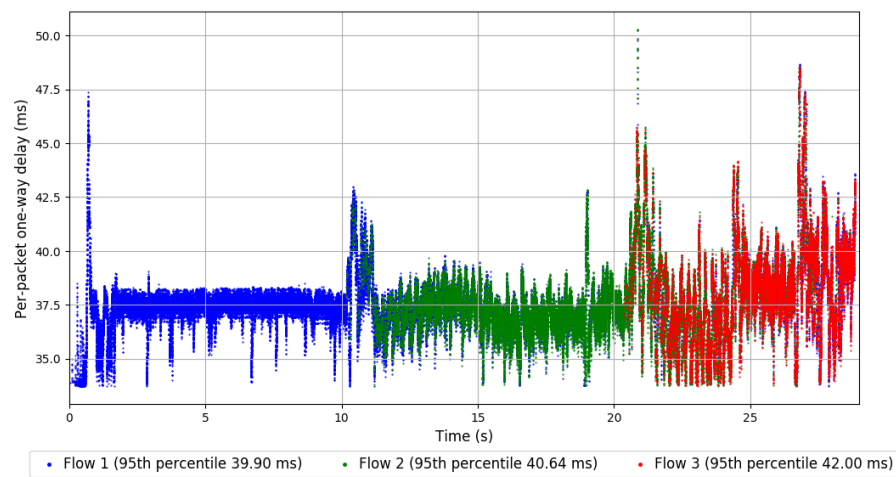
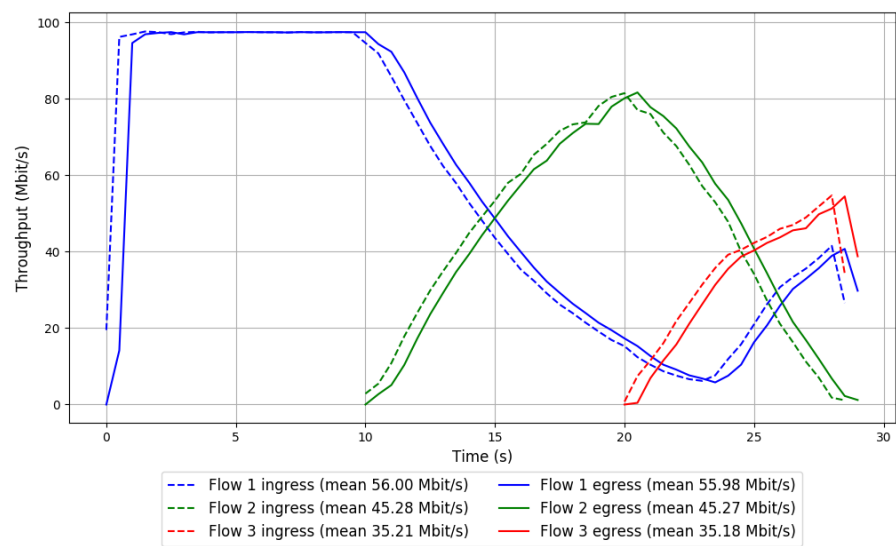
-- Flow 3:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 42.004 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 07:49:33

End at: 2019-11-24 07:50:03

Local clock offset: 4.083 ms

Remote clock offset: 4.519 ms

# Below is generated by plot.py at 2019-11-24 11:32:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 68.302 ms

Loss rate: 24.86%

-- Flow 1:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 66.422 ms

Loss rate: 19.80%

-- Flow 2:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 70.100 ms

Loss rate: 33.71%

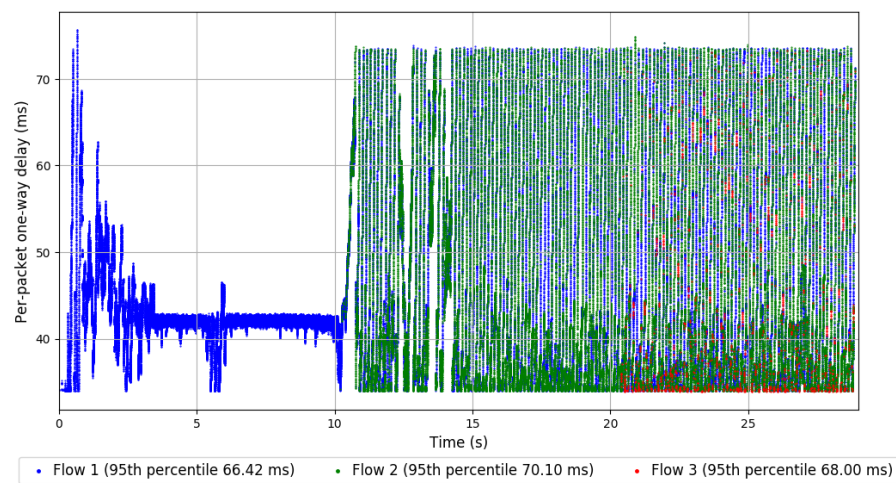
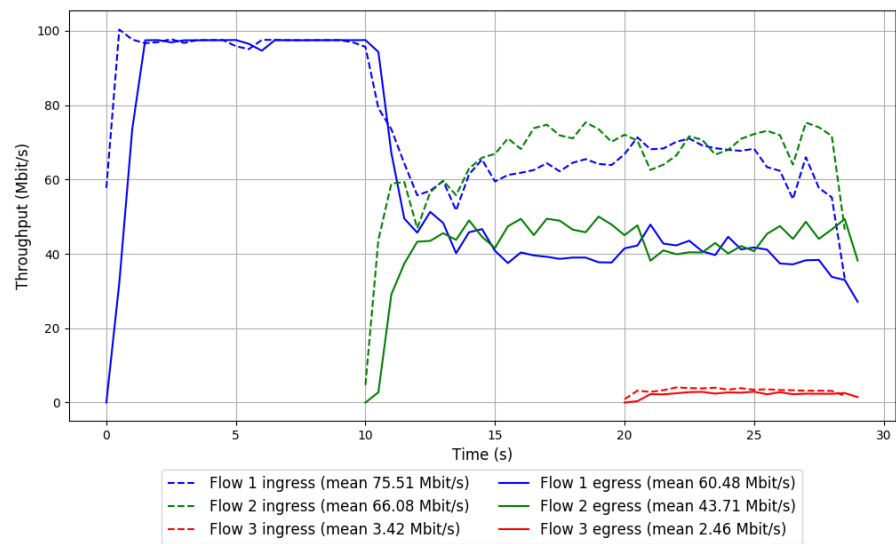
-- Flow 3:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 67.998 ms

Loss rate: 27.89%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 08:54:51

End at: 2019-11-24 08:55:21

Local clock offset: 3.226 ms

Remote clock offset: 4.266 ms

# Below is generated by plot.py at 2019-11-24 11:32:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 68.236 ms

Loss rate: 29.13%

-- Flow 1:

Average throughput: 60.51 Mbit/s

95th percentile per-packet one-way delay: 66.466 ms

Loss rate: 23.34%

-- Flow 2:

Average throughput: 43.03 Mbit/s

95th percentile per-packet one-way delay: 70.008 ms

Loss rate: 39.13%

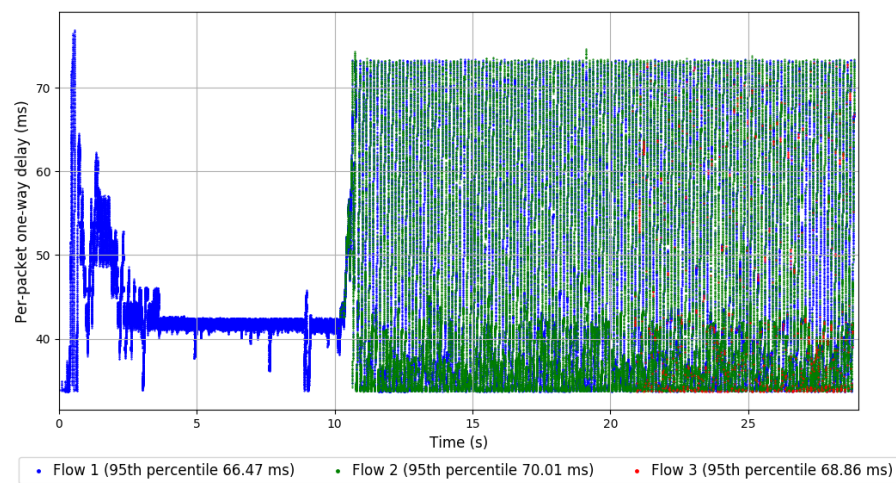
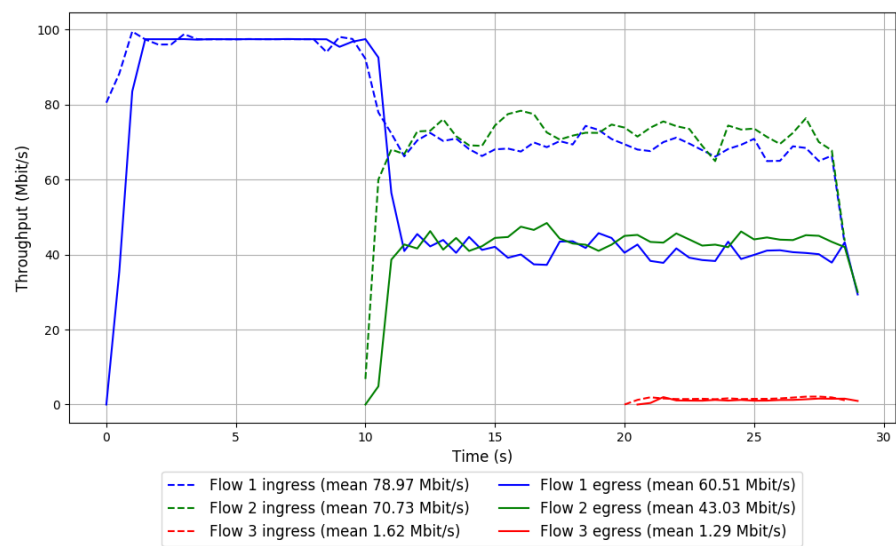
-- Flow 3:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 68.863 ms

Loss rate: 25.17%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 09:39:20

End at: 2019-11-24 09:39:50

Local clock offset: 3.056 ms

Remote clock offset: 4.365 ms

# Below is generated by plot.py at 2019-11-24 11:32:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.66 Mbit/s

95th percentile per-packet one-way delay: 68.363 ms

Loss rate: 22.24%

-- Flow 1:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 65.862 ms

Loss rate: 17.45%

-- Flow 2:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 70.011 ms

Loss rate: 28.38%

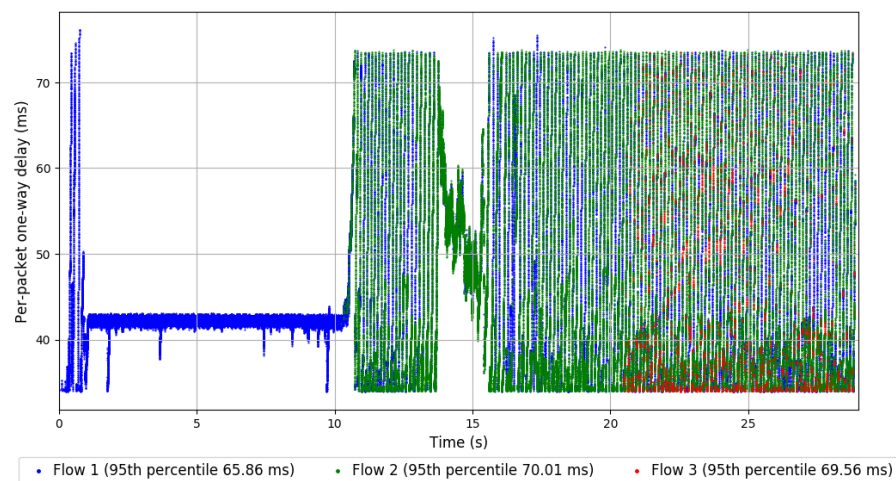
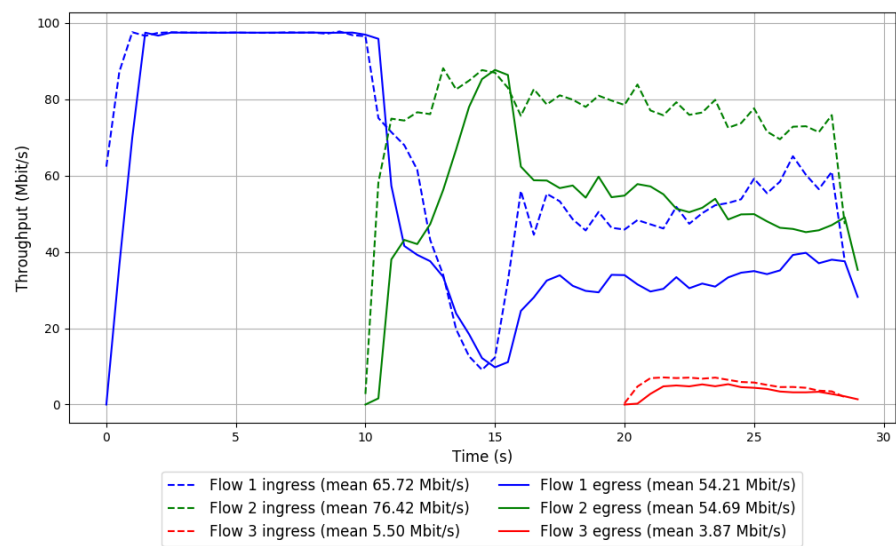
-- Flow 3:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 69.558 ms

Loss rate: 29.48%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 10:19:10

End at: 2019-11-24 10:19:40

Local clock offset: 2.698 ms

Remote clock offset: 4.059 ms

# Below is generated by plot.py at 2019-11-24 11:32:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 68.299 ms

Loss rate: 29.49%

-- Flow 1:

Average throughput: 59.46 Mbit/s

95th percentile per-packet one-way delay: 66.303 ms

Loss rate: 23.55%

-- Flow 2:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 70.164 ms

Loss rate: 39.45%

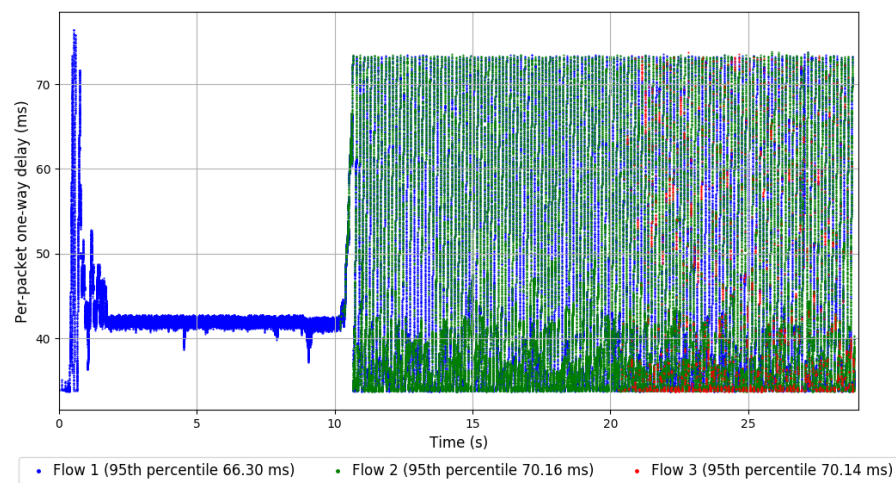
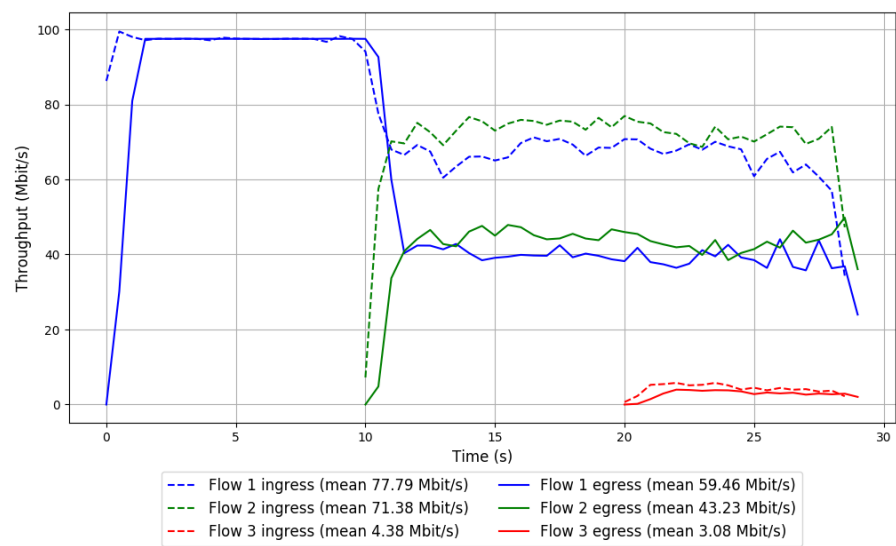
-- Flow 3:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 70.139 ms

Loss rate: 29.76%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 11:01:10

End at: 2019-11-24 11:01:40

Local clock offset: 2.693 ms

Remote clock offset: 3.886 ms

# Below is generated by plot.py at 2019-11-24 11:32:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 68.478 ms

Loss rate: 26.58%

-- Flow 1:

Average throughput: 58.66 Mbit/s

95th percentile per-packet one-way delay: 66.798 ms

Loss rate: 21.13%

-- Flow 2:

Average throughput: 46.18 Mbit/s

95th percentile per-packet one-way delay: 69.967 ms

Loss rate: 35.26%

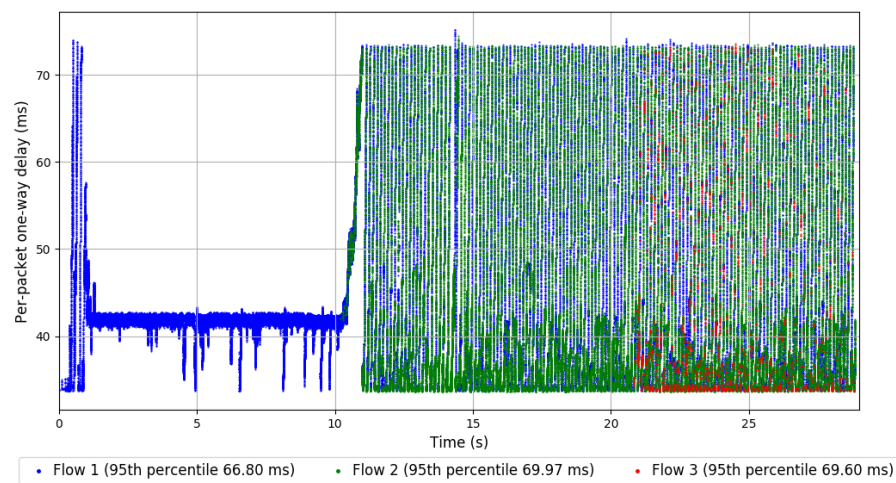
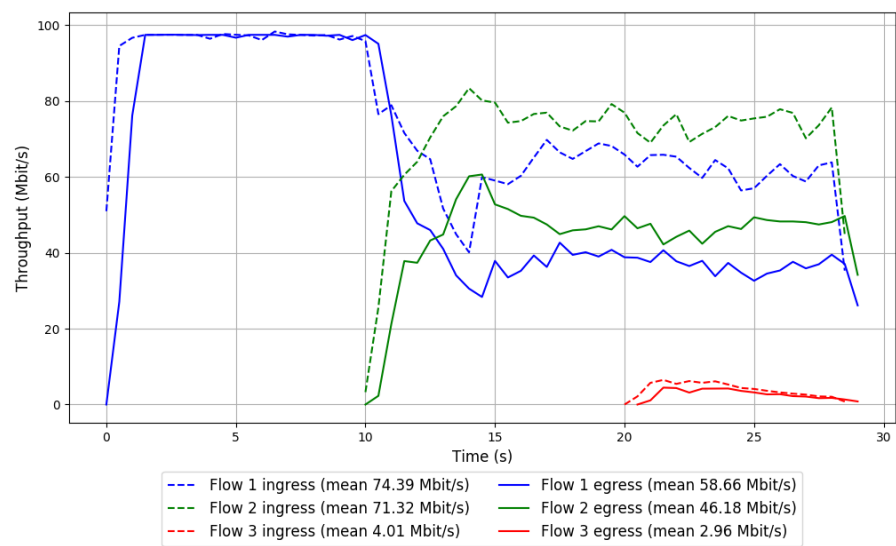
-- Flow 3:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 69.598 ms

Loss rate: 30.64%

Run 5: Report of Indigo-MusesT — Data Link

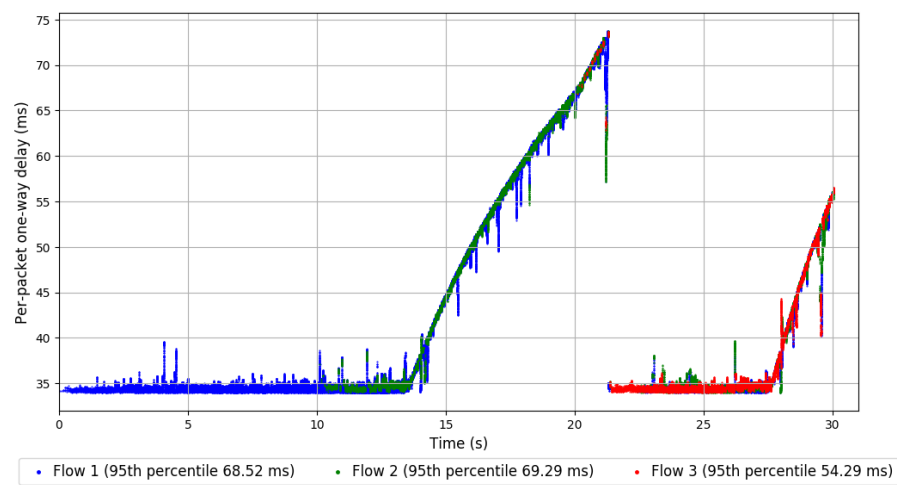
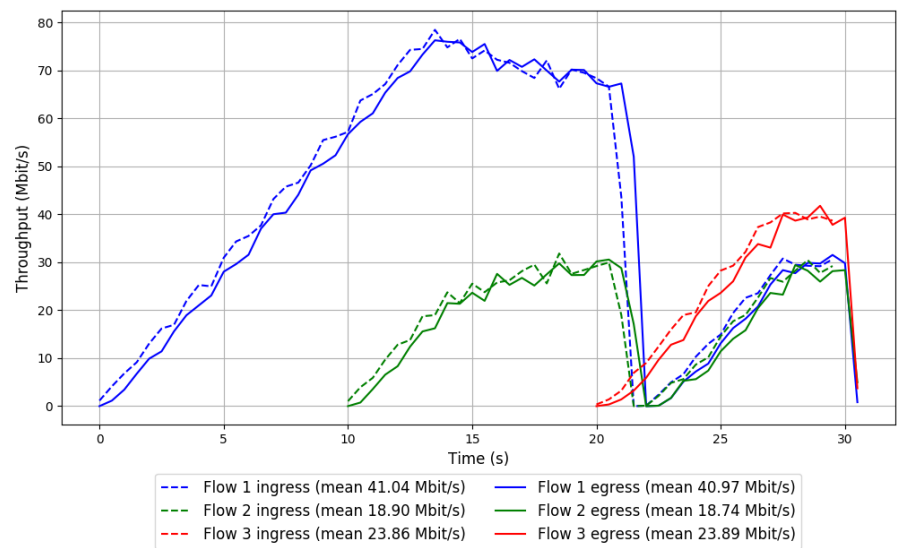


```
Run 1: Statistics of LEDBAT

Start at: 2019-11-24 07:32:57
End at: 2019-11-24 07:33:27
Local clock offset: 4.226 ms
Remote clock offset: 4.44 ms

# Below is generated by plot.py at 2019-11-24 11:32:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.32 Mbit/s
95th percentile per-packet one-way delay: 68.085 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 40.97 Mbit/s
95th percentile per-packet one-way delay: 68.519 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 18.74 Mbit/s
95th percentile per-packet one-way delay: 69.293 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 54.290 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-11-24 08:41:45

End at: 2019-11-24 08:42:15

Local clock offset: 3.142 ms

Remote clock offset: 4.245 ms

# Below is generated by plot.py at 2019-11-24 11:32:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.15 Mbit/s

95th percentile per-packet one-way delay: 67.926 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 40.30 Mbit/s

95th percentile per-packet one-way delay: 67.908 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 69.372 ms

Loss rate: 0.26%

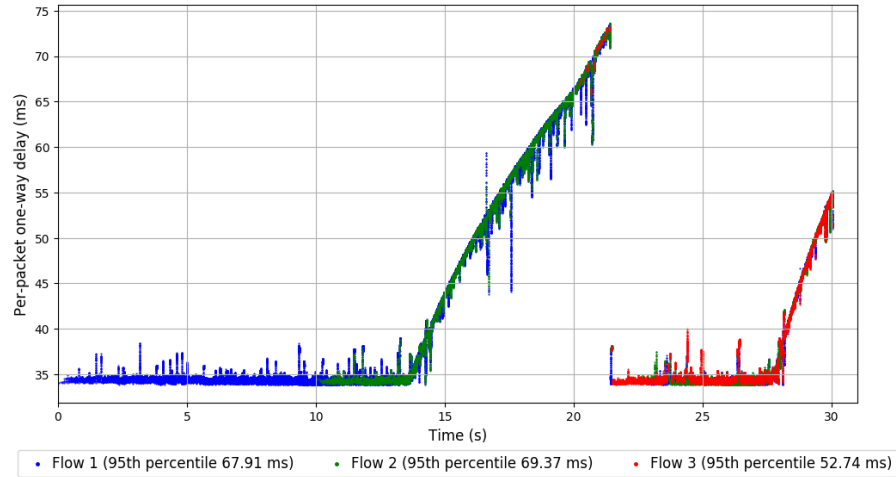
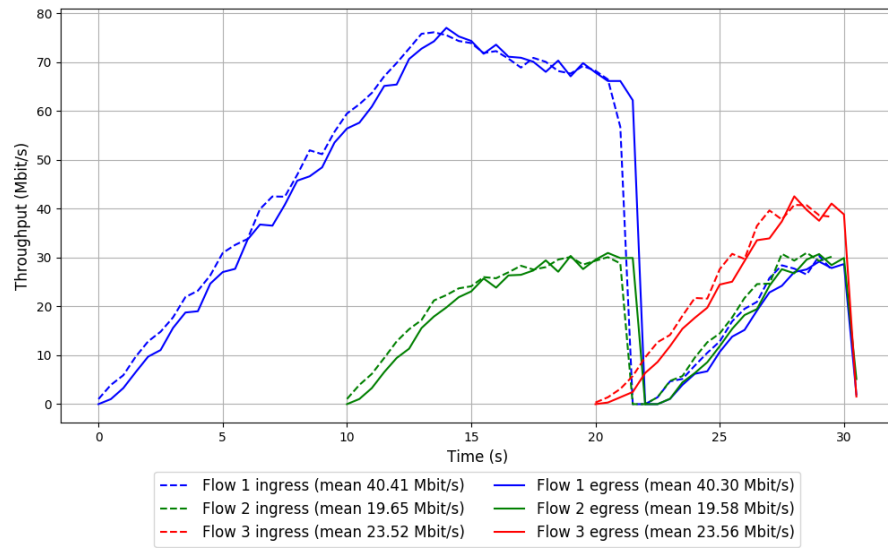
-- Flow 3:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 52.739 ms

Loss rate: 0.00%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-11-24 09:29:05

End at: 2019-11-24 09:29:35

Local clock offset: 3.071 ms

Remote clock offset: 4.345 ms

# Below is generated by plot.py at 2019-11-24 11:32:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.05 Mbit/s

95th percentile per-packet one-way delay: 68.568 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 68.733 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 70.042 ms

Loss rate: 0.11%

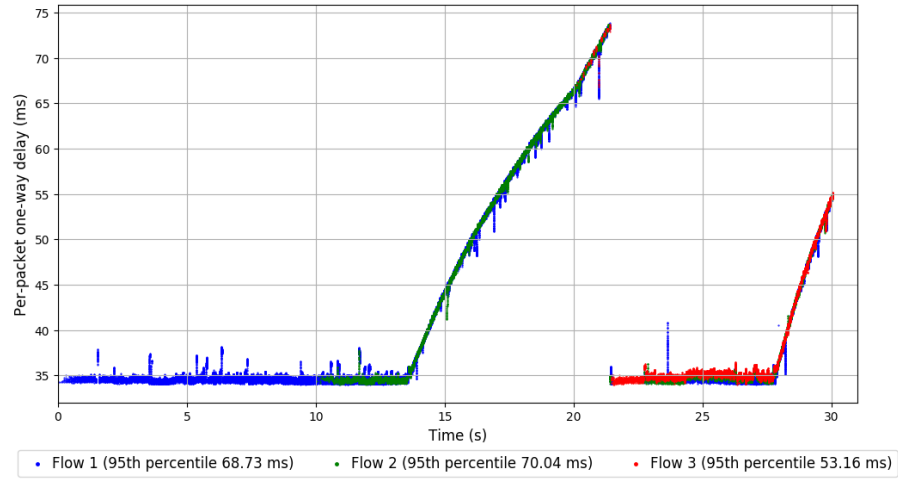
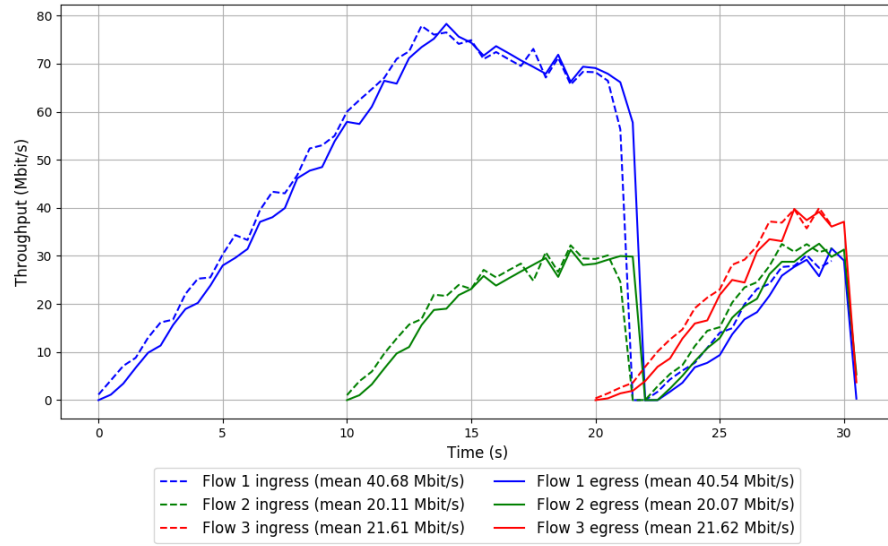
-- Flow 3:

Average throughput: 21.62 Mbit/s

95th percentile per-packet one-way delay: 53.158 ms

Loss rate: 0.07%

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



Run 4: Statistics of LEDBAT

Start at: 2019-11-24 10:08:38

End at: 2019-11-24 10:09:08

Local clock offset: 2.838 ms

Remote clock offset: 4.291 ms

# Below is generated by plot.py at 2019-11-24 11:33:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.45 Mbit/s

95th percentile per-packet one-way delay: 68.436 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 68.478 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 19.49 Mbit/s

95th percentile per-packet one-way delay: 69.852 ms

Loss rate: 0.24%

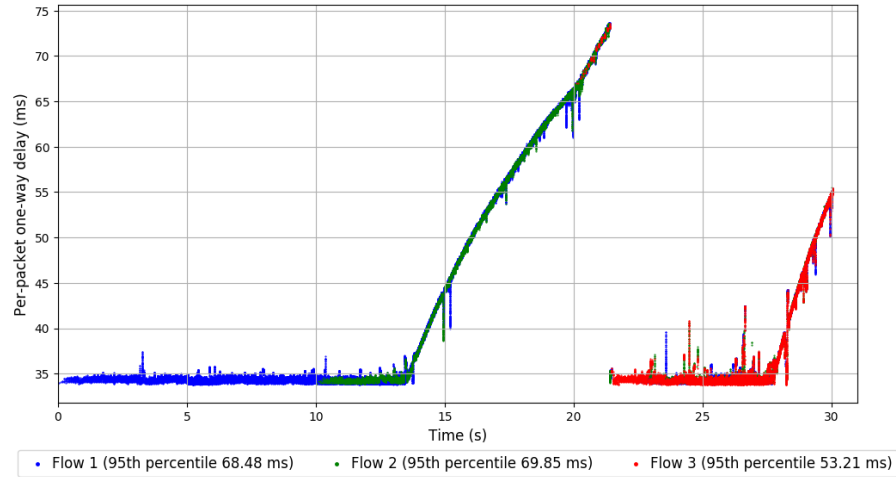
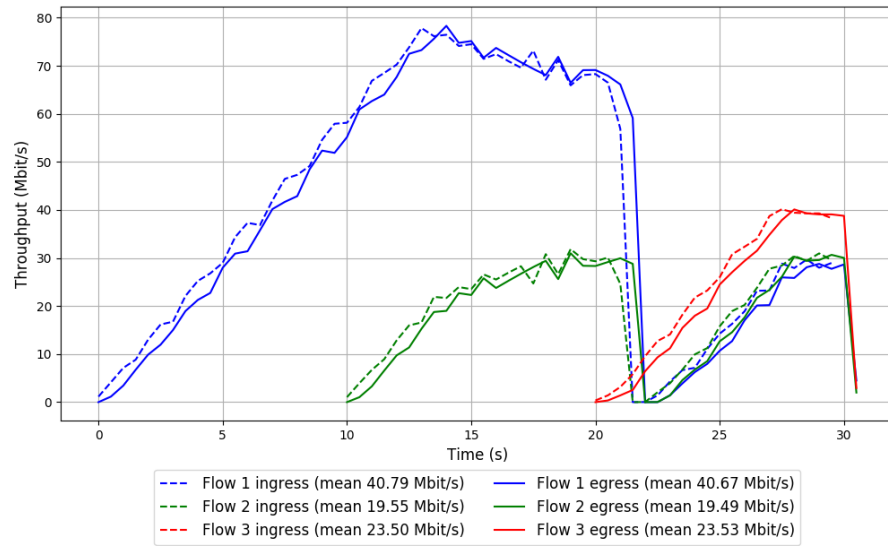
-- Flow 3:

Average throughput: 23.53 Mbit/s

95th percentile per-packet one-way delay: 53.214 ms

Loss rate: 0.00%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-11-24 10:50:08

End at: 2019-11-24 10:50:38

Local clock offset: 2.671 ms

Remote clock offset: 4.079 ms

# Below is generated by plot.py at 2019-11-24 11:33:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.87 Mbit/s

95th percentile per-packet one-way delay: 68.960 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 68.978 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 68.930 ms

Loss rate: 0.00%

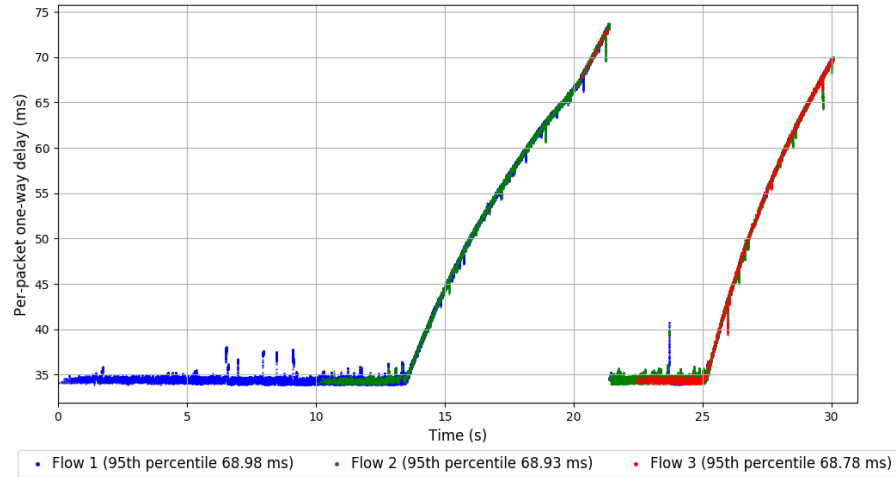
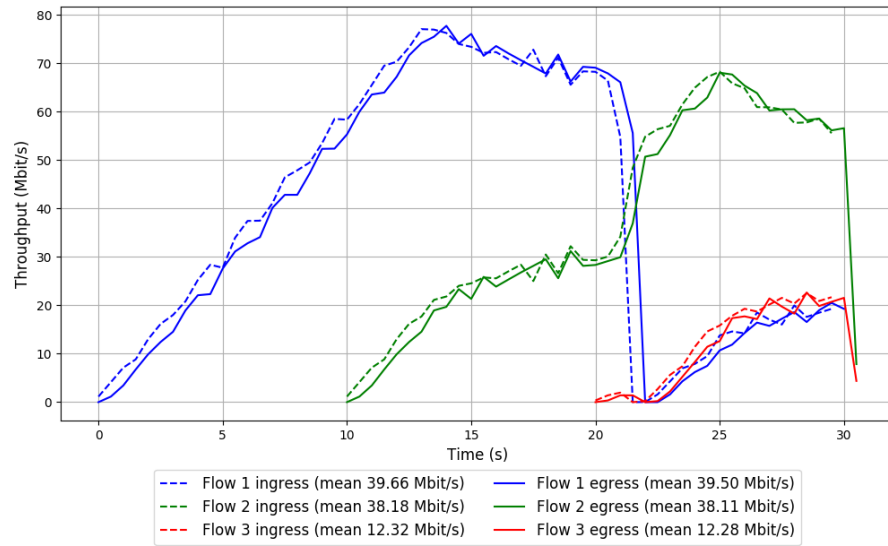
-- Flow 3:

Average throughput: 12.28 Mbit/s

95th percentile per-packet one-way delay: 68.780 ms

Loss rate: 0.23%

# Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 07:35:38

End at: 2019-11-24 07:36:08

Local clock offset: 4.29 ms

Remote clock offset: 4.368 ms

# Below is generated by plot.py at 2019-11-24 11:33:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 45.378 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 42.845 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.00 Mbit/s

95th percentile per-packet one-way delay: 47.475 ms

Loss rate: 0.00%

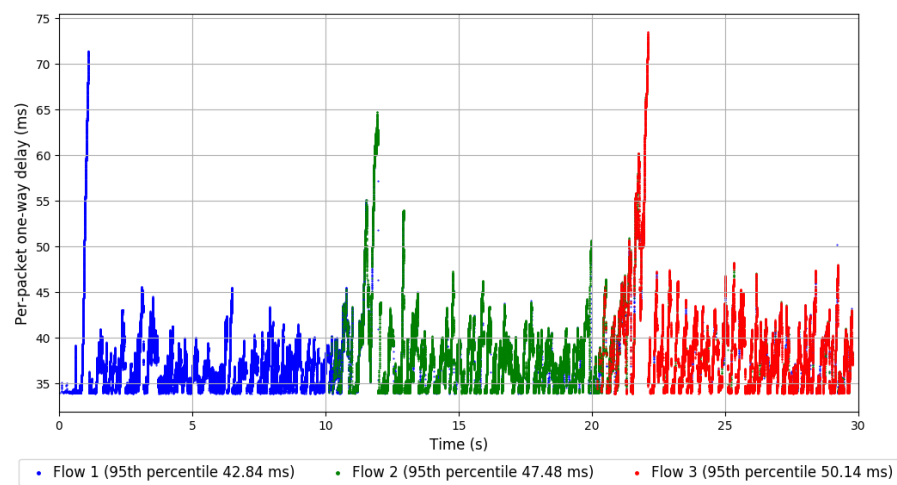
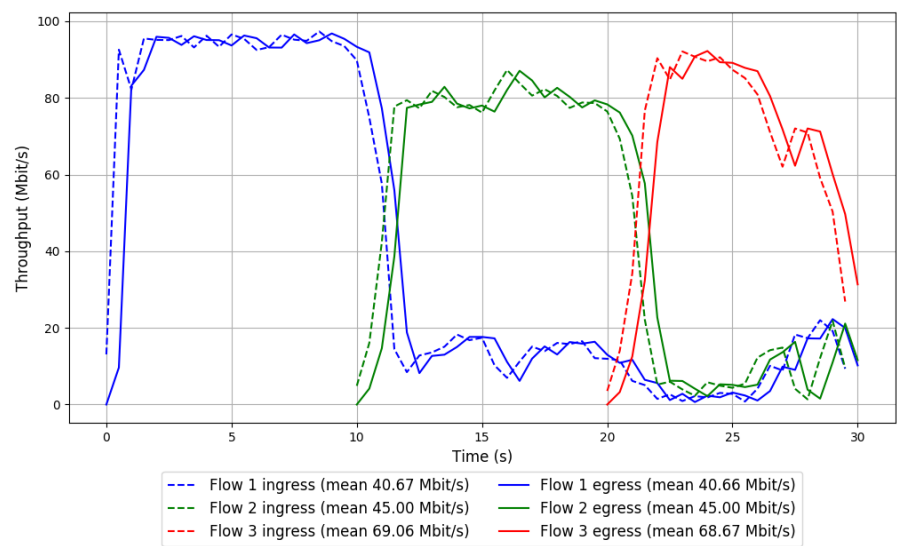
-- Flow 3:

Average throughput: 68.67 Mbit/s

95th percentile per-packet one-way delay: 50.140 ms

Loss rate: 0.56%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 08:44:03

End at: 2019-11-24 08:44:33

Local clock offset: 3.178 ms

Remote clock offset: 4.27 ms

# Below is generated by plot.py at 2019-11-24 11:33:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 43.471 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 47.30 Mbit/s

95th percentile per-packet one-way delay: 41.596 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 43.818 ms

Loss rate: 0.00%

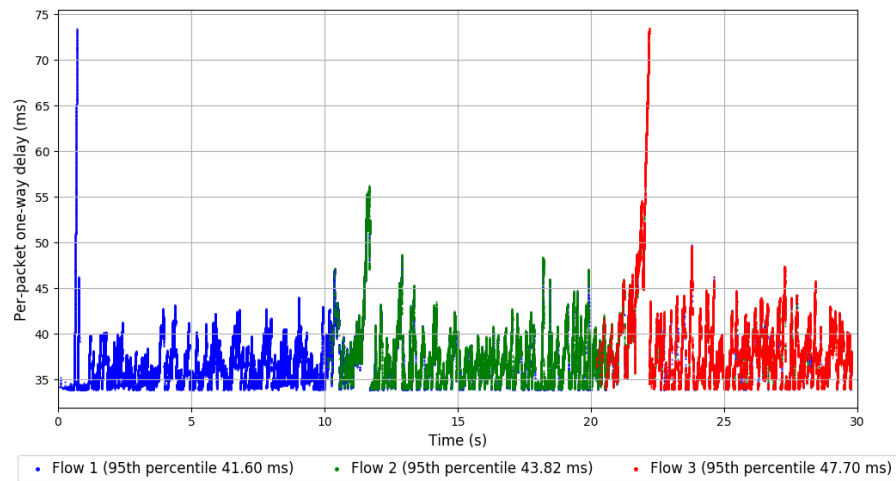
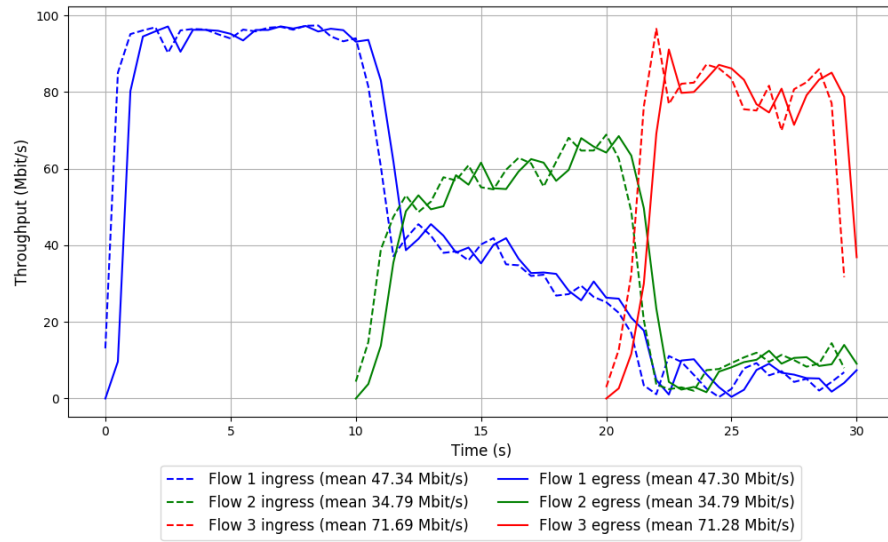
-- Flow 3:

Average throughput: 71.28 Mbit/s

95th percentile per-packet one-way delay: 47.705 ms

Loss rate: 0.61%

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



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 09:30:36

End at: 2019-11-24 09:31:06

Local clock offset: 3.107 ms

Remote clock offset: 4.441 ms

# Below is generated by plot.py at 2019-11-24 11:33:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 45.451 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 42.292 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 46.987 ms

Loss rate: 0.47%

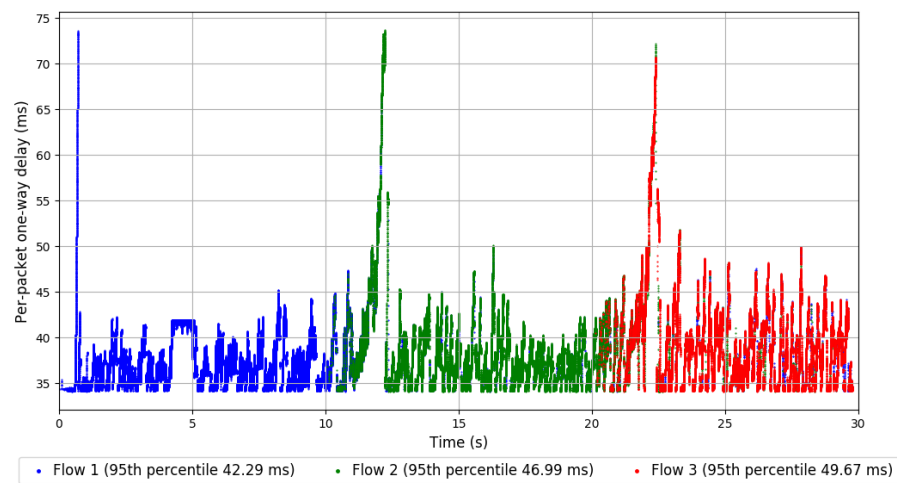
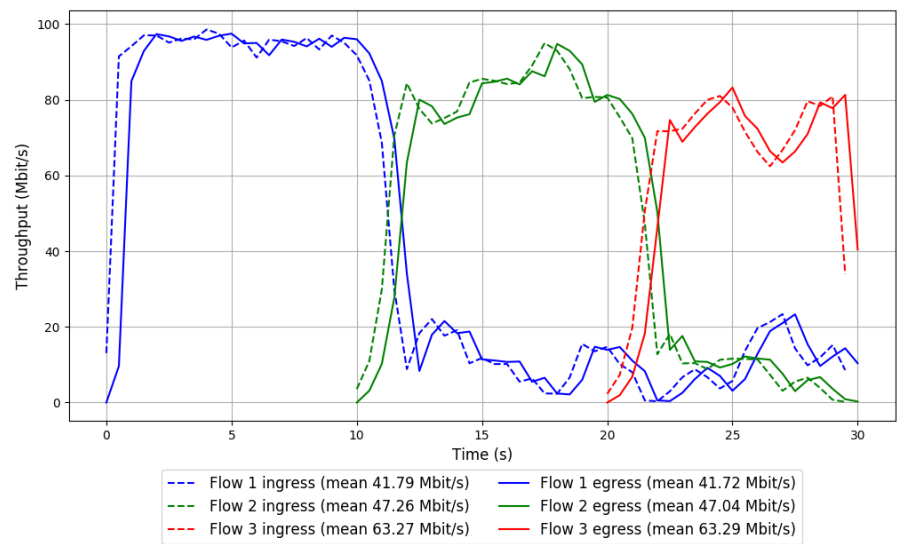
-- Flow 3:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 49.668 ms

Loss rate: 0.03%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 10:10:12

End at: 2019-11-24 10:10:42

Local clock offset: 2.8 ms

Remote clock offset: 4.172 ms

# Below is generated by plot.py at 2019-11-24 11:33:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.95 Mbit/s

95th percentile per-packet one-way delay: 43.790 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 42.115 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 43.422 ms

Loss rate: 0.00%

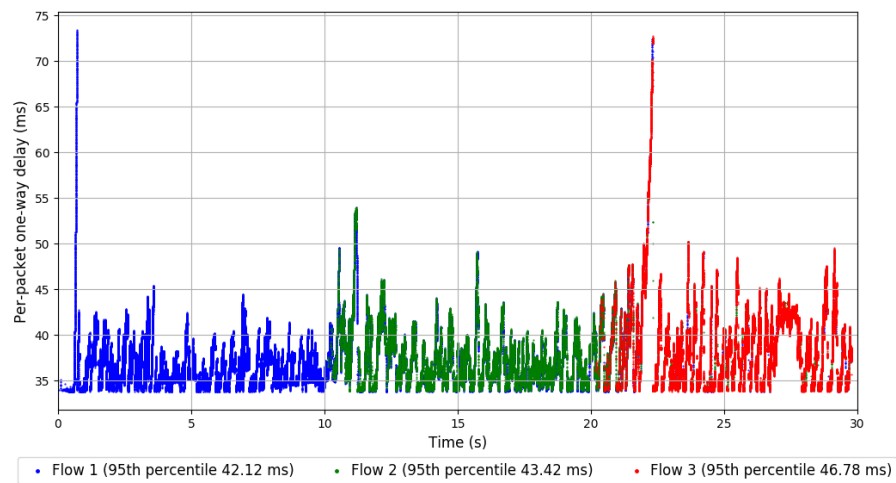
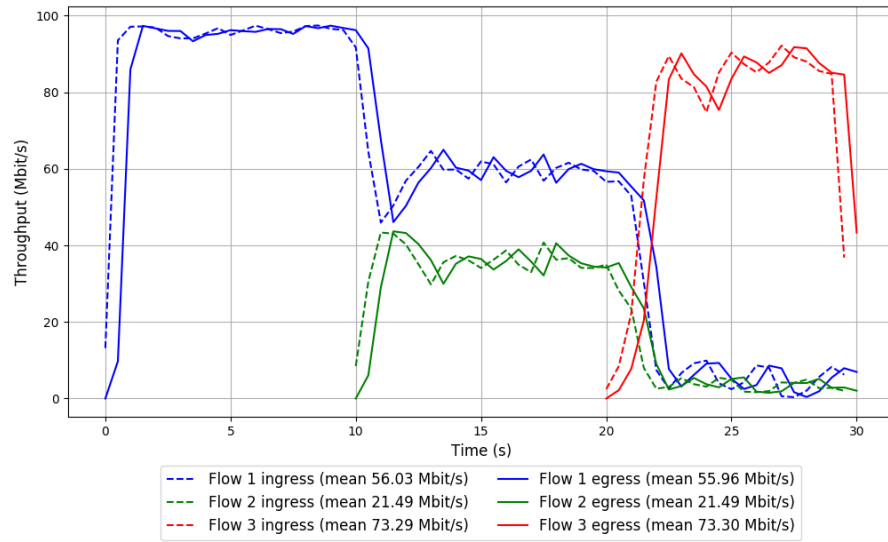
-- Flow 3:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 46.781 ms

Loss rate: 0.00%

#### Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 10:51:52

End at: 2019-11-24 10:52:22

Local clock offset: 2.715 ms

Remote clock offset: 4.01 ms

# Below is generated by plot.py at 2019-11-24 11:33:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 43.803 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 42.300 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 46.286 ms

Loss rate: 0.55%

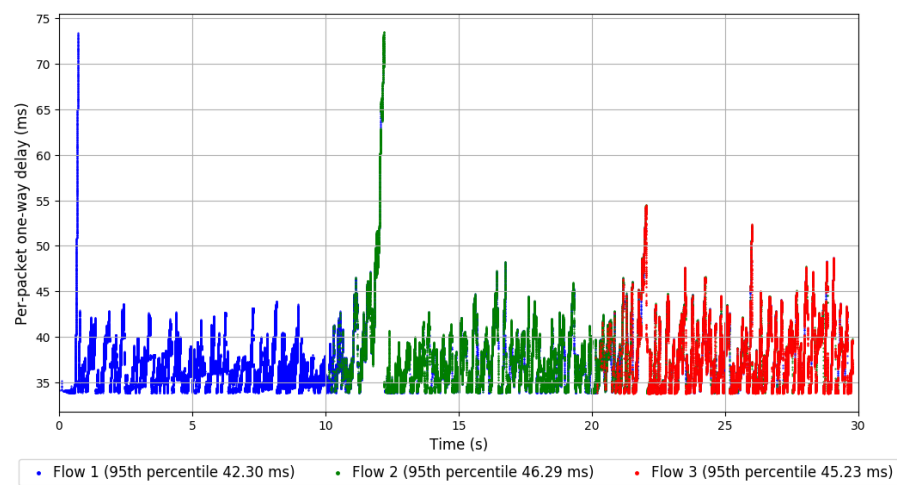
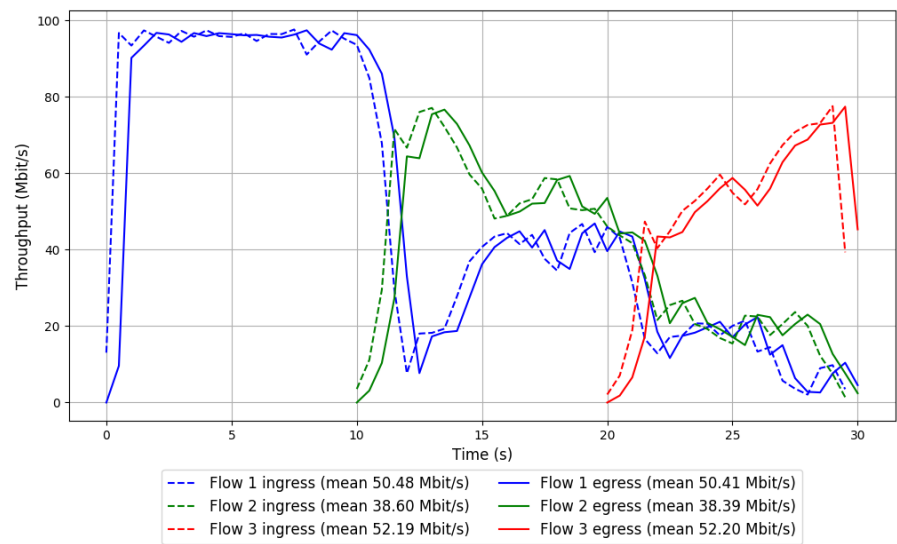
-- Flow 3:

Average throughput: 52.20 Mbit/s

95th percentile per-packet one-way delay: 45.225 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link





Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 08:05:56

End at: 2019-11-24 08:06:26

Local clock offset: 4.09 ms

Remote clock offset: 4.32 ms

# Below is generated by plot.py at 2019-11-24 11:33:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 63.538 ms

Loss rate: 5.10%

-- Flow 1:

Average throughput: 60.34 Mbit/s

95th percentile per-packet one-way delay: 62.645 ms

Loss rate: 4.22%

-- Flow 2:

Average throughput: 36.61 Mbit/s

95th percentile per-packet one-way delay: 65.027 ms

Loss rate: 7.19%

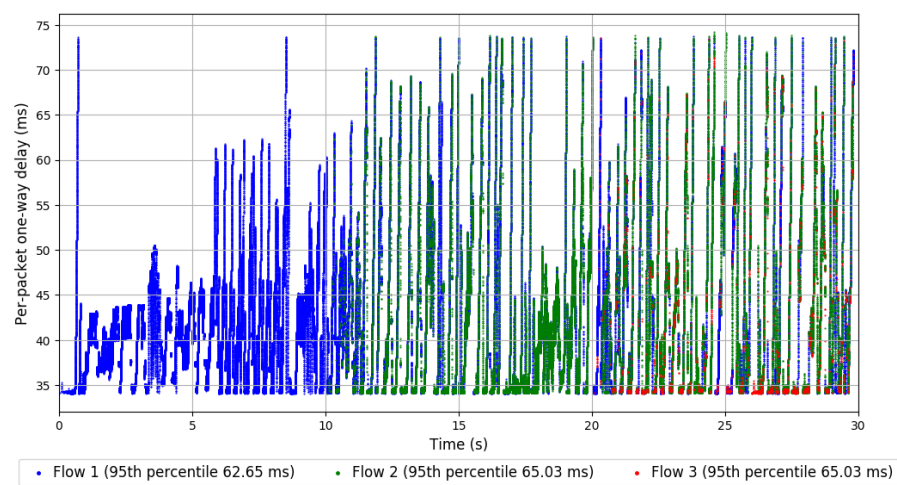
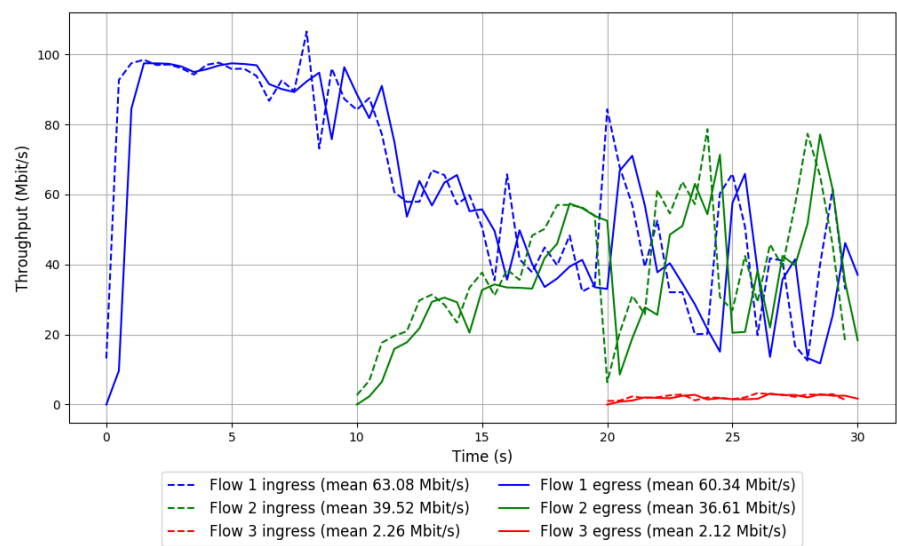
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 65.027 ms

Loss rate: 5.88%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 09:05:04

End at: 2019-11-24 09:05:34

Local clock offset: 3.192 ms

Remote clock offset: 4.331 ms

# Below is generated by plot.py at 2019-11-24 11:34:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 62.645 ms

Loss rate: 7.61%

-- Flow 1:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 62.710 ms

Loss rate: 7.33%

-- Flow 2:

Average throughput: 36.18 Mbit/s

95th percentile per-packet one-way delay: 62.535 ms

Loss rate: 8.32%

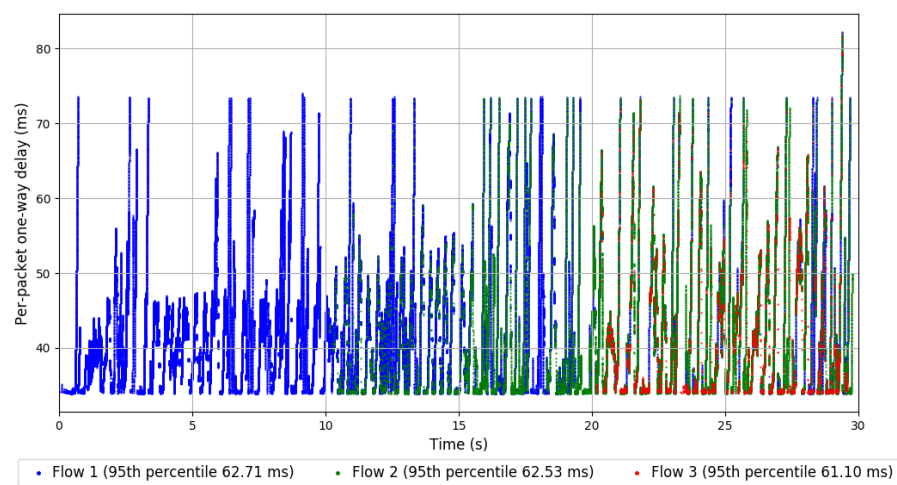
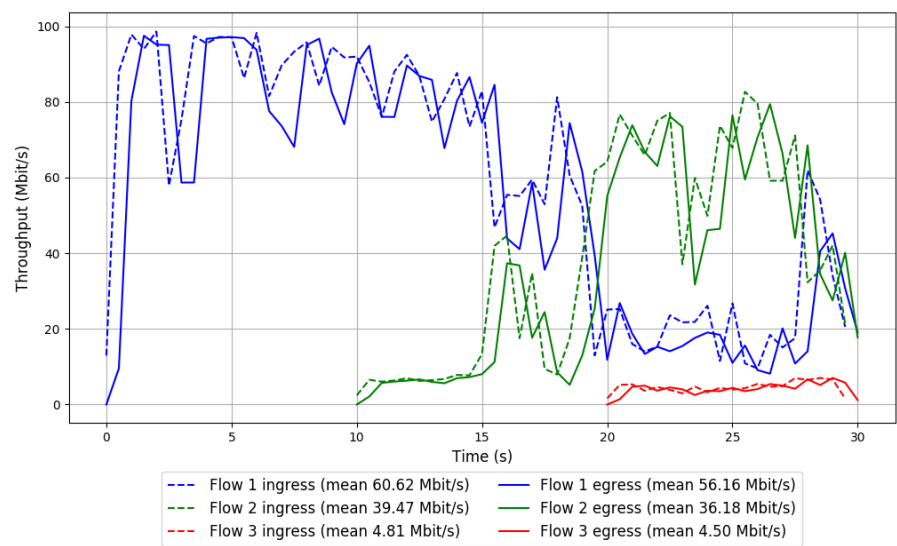
-- Flow 3:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 61.098 ms

Loss rate: 6.89%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 09:46:45

End at: 2019-11-24 09:47:15

Local clock offset: 2.951 ms

Remote clock offset: 4.249 ms

# Below is generated by plot.py at 2019-11-24 11:34:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.12 Mbit/s

95th percentile per-packet one-way delay: 64.319 ms

Loss rate: 10.47%

-- Flow 1:

Average throughput: 44.50 Mbit/s

95th percentile per-packet one-way delay: 64.022 ms

Loss rate: 10.64%

-- Flow 2:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 64.602 ms

Loss rate: 10.24%

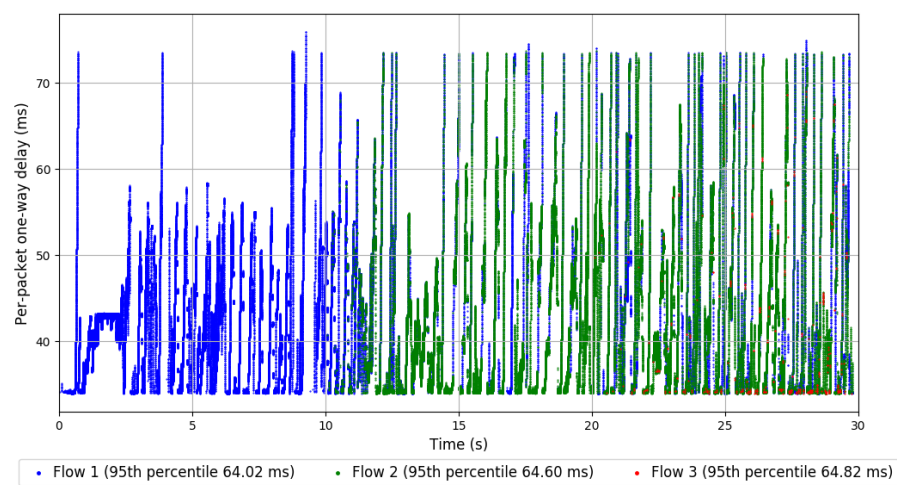
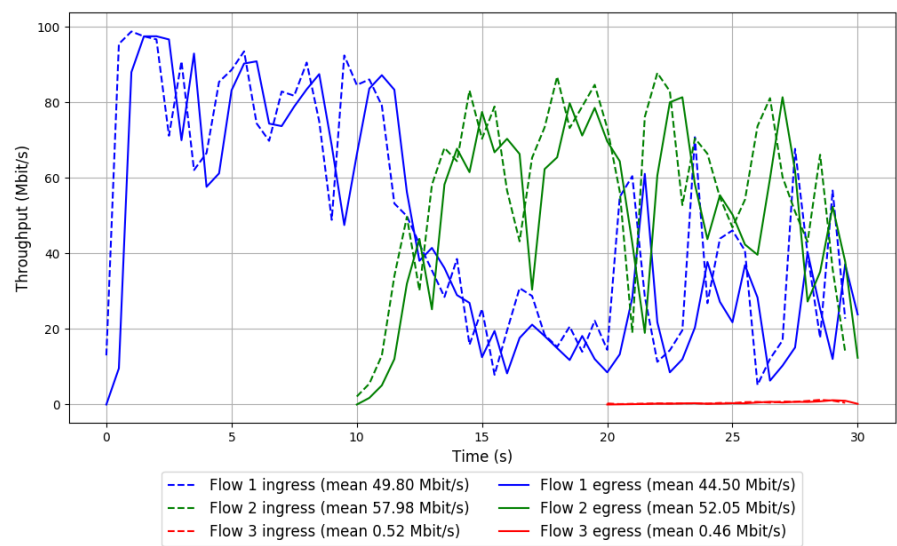
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 64.817 ms

Loss rate: 12.21%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 10:28:38

End at: 2019-11-24 10:29:08

Local clock offset: 2.655 ms

Remote clock offset: 4.066 ms

# Below is generated by plot.py at 2019-11-24 11:34:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.64 Mbit/s

95th percentile per-packet one-way delay: 65.038 ms

Loss rate: 8.55%

-- Flow 1:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 64.359 ms

Loss rate: 7.44%

-- Flow 2:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 66.533 ms

Loss rate: 11.40%

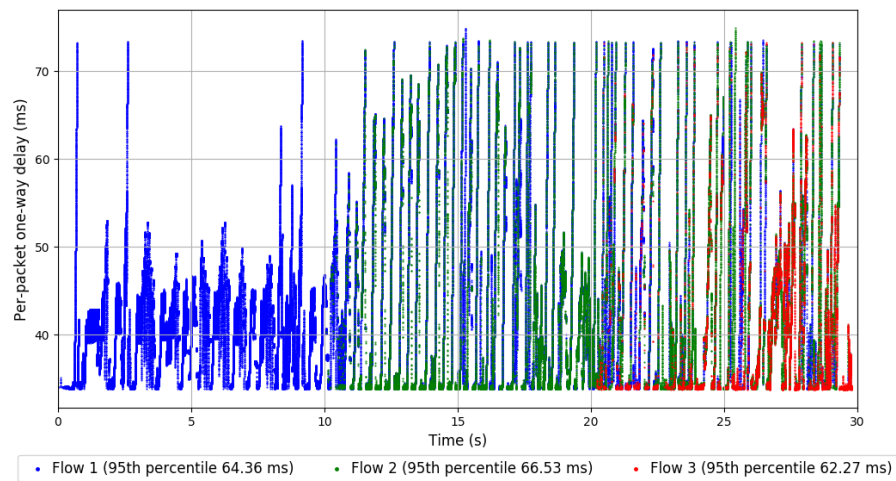
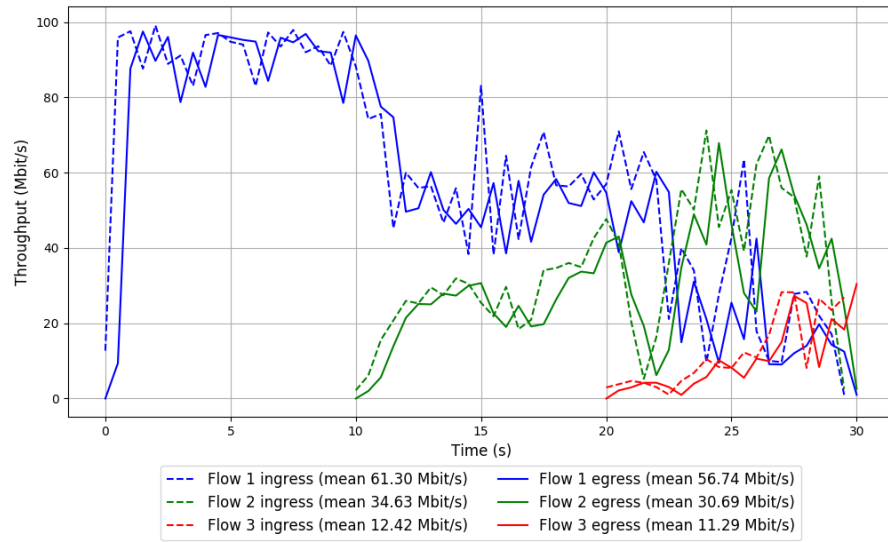
-- Flow 3:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 62.265 ms

Loss rate: 9.26%

# Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 11:10:38

End at: 2019-11-24 11:11:08

Local clock offset: 2.711 ms

Remote clock offset: 4.007 ms

# Below is generated by plot.py at 2019-11-24 11:34:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.39 Mbit/s

95th percentile per-packet one-way delay: 63.350 ms

Loss rate: 5.27%

-- Flow 1:

Average throughput: 66.12 Mbit/s

95th percentile per-packet one-way delay: 62.172 ms

Loss rate: 4.17%

-- Flow 2:

Average throughput: 26.11 Mbit/s

95th percentile per-packet one-way delay: 66.441 ms

Loss rate: 9.13%

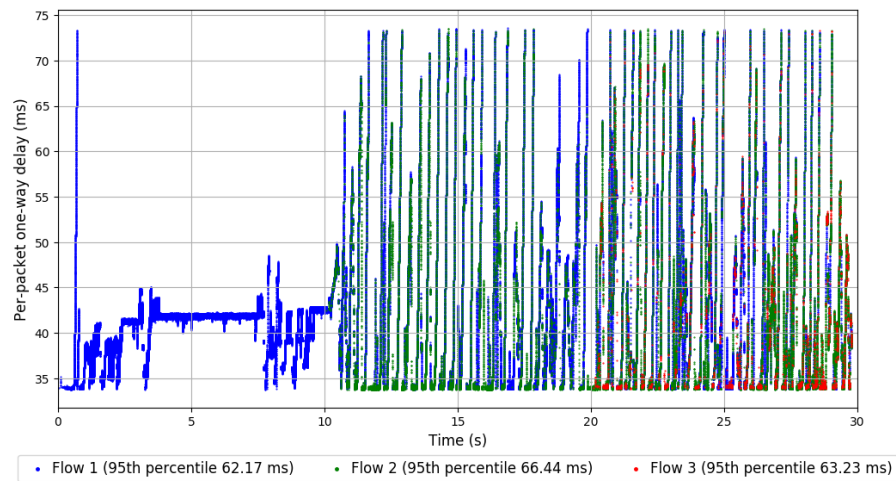
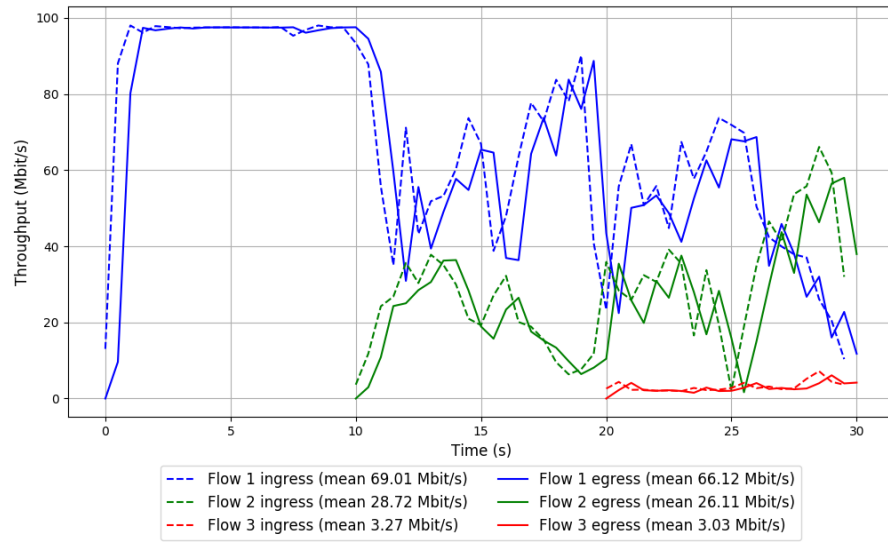
-- Flow 3:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 63.225 ms

Loss rate: 7.45%

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



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 08:02:21

End at: 2019-11-24 08:02:51

Local clock offset: 4.088 ms

Remote clock offset: 4.407 ms

# Below is generated by plot.py at 2019-11-24 11:34:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 45.075 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 42.843 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 42.20 Mbit/s

95th percentile per-packet one-way delay: 46.252 ms

Loss rate: 0.57%

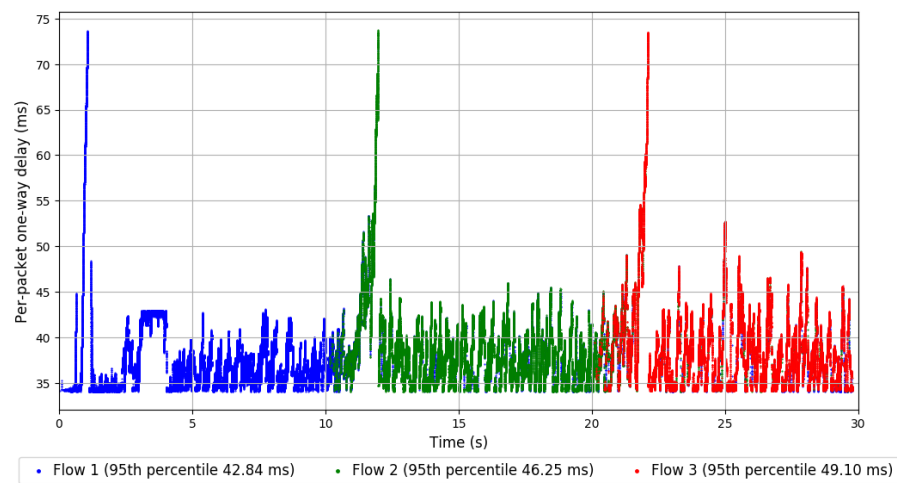
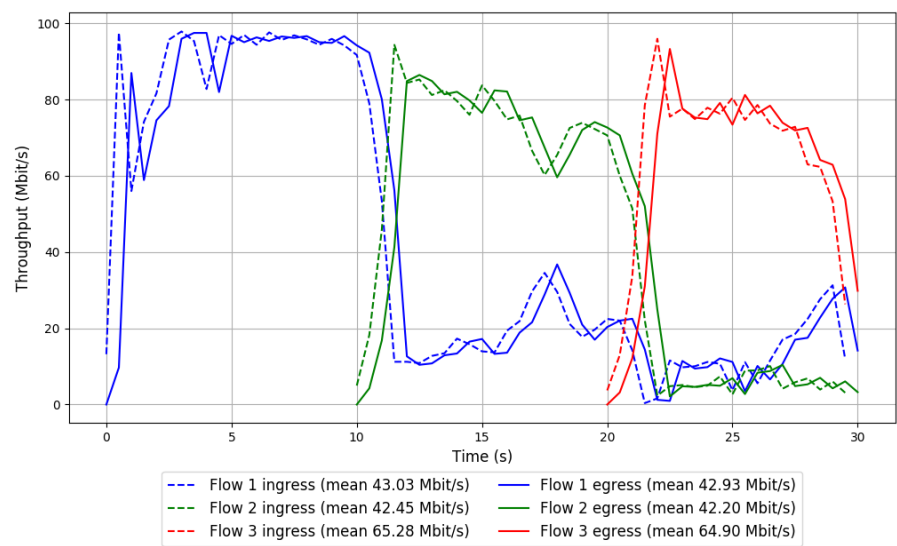
-- Flow 3:

Average throughput: 64.90 Mbit/s

95th percentile per-packet one-way delay: 49.105 ms

Loss rate: 0.62%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 09:02:45

End at: 2019-11-24 09:03:15

Local clock offset: 3.204 ms

Remote clock offset: 4.4 ms

# Below is generated by plot.py at 2019-11-24 11:34:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 42.658 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 42.105 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.28 Mbit/s

95th percentile per-packet one-way delay: 43.358 ms

Loss rate: 0.00%

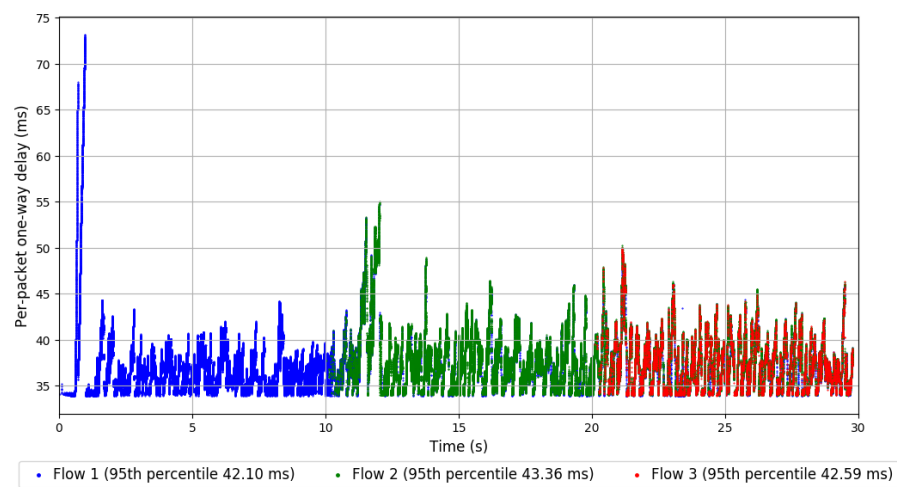
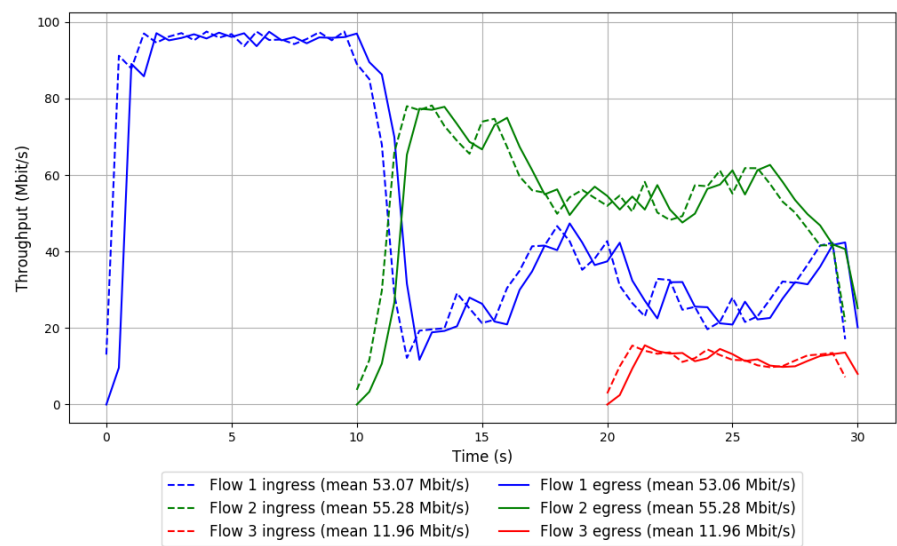
-- Flow 3:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 42.590 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 09:45:04

End at: 2019-11-24 09:45:34

Local clock offset: 3.003 ms

Remote clock offset: 4.258 ms

# Below is generated by plot.py at 2019-11-24 11:35:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 45.394 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 40.95 Mbit/s

95th percentile per-packet one-way delay: 42.512 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 47.627 ms

Loss rate: 0.45%

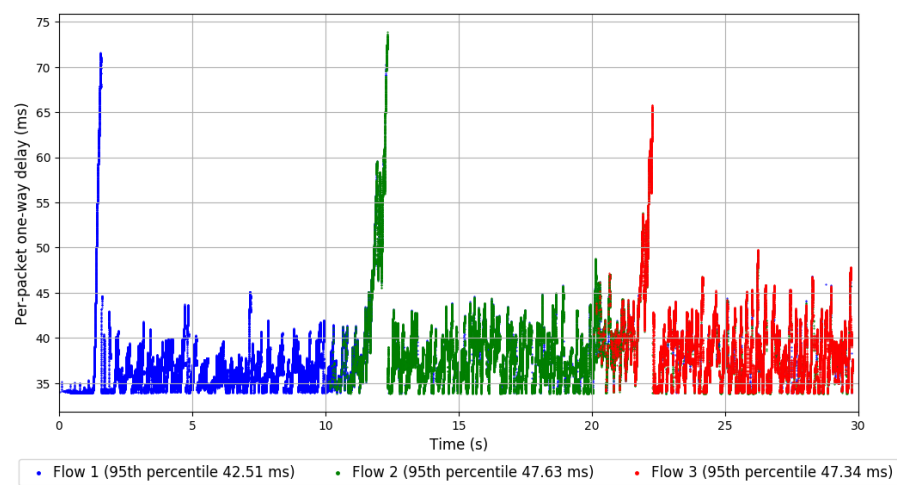
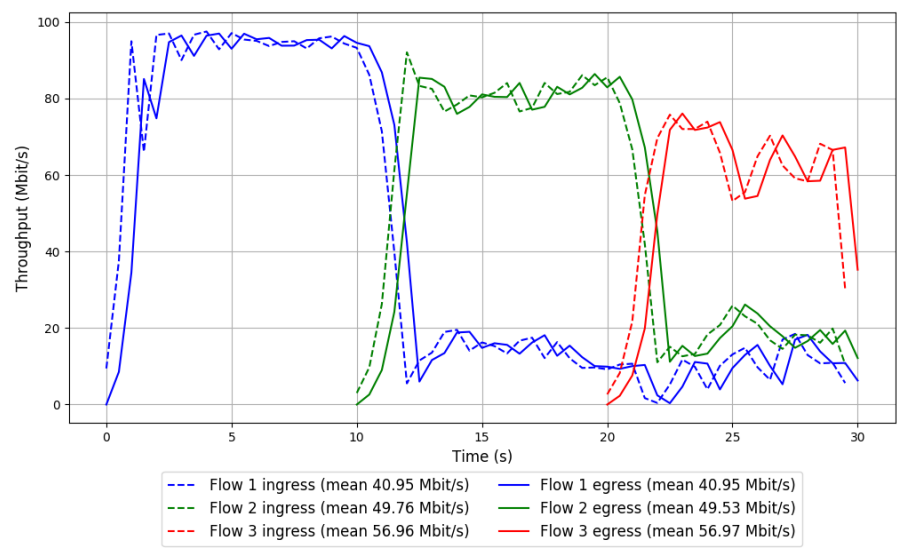
-- Flow 3:

Average throughput: 56.97 Mbit/s

95th percentile per-packet one-way delay: 47.337 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 10:26:27

End at: 2019-11-24 10:26:57

Local clock offset: 2.651 ms

Remote clock offset: 4.138 ms

# Below is generated by plot.py at 2019-11-24 11:35:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 45.881 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 43.09 Mbit/s

95th percentile per-packet one-way delay: 41.924 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 42.43 Mbit/s

95th percentile per-packet one-way delay: 49.770 ms

Loss rate: 0.50%

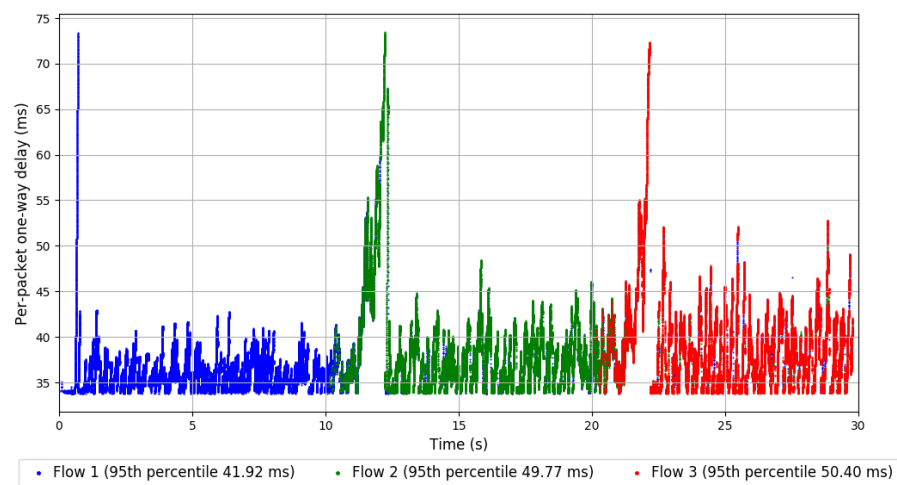
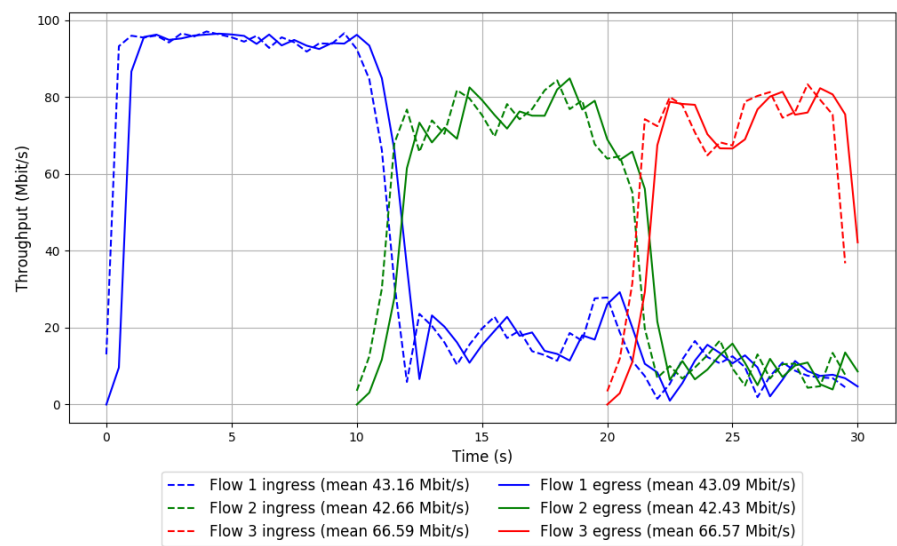
-- Flow 3:

Average throughput: 66.57 Mbit/s

95th percentile per-packet one-way delay: 50.401 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 11:08:38

End at: 2019-11-24 11:09:08

Local clock offset: 2.679 ms

Remote clock offset: 4.088 ms

# Below is generated by plot.py at 2019-11-24 11:35:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 45.795 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 41.873 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 37.80 Mbit/s

95th percentile per-packet one-way delay: 48.854 ms

Loss rate: 0.25%

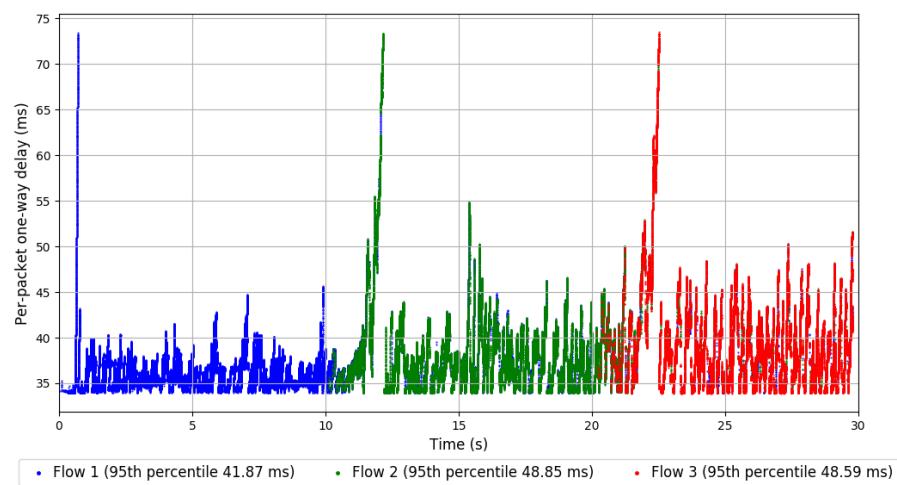
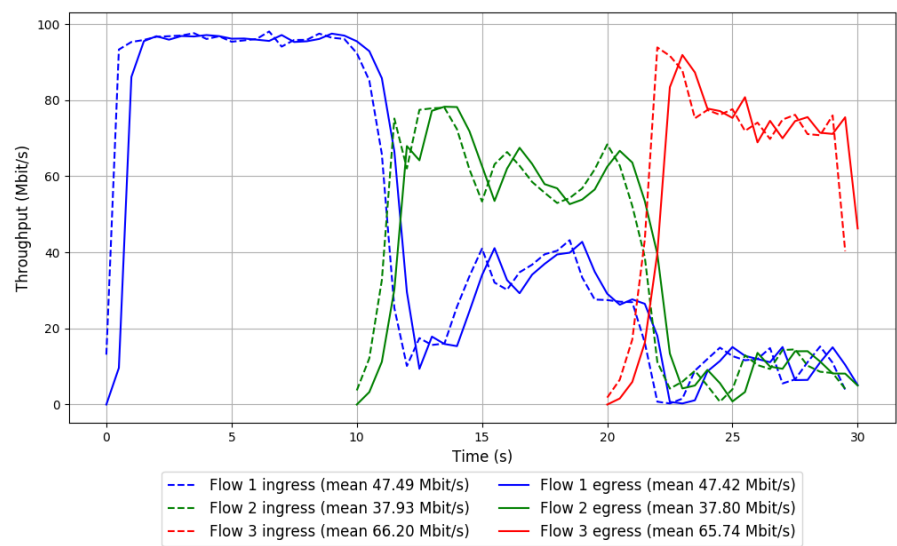
-- Flow 3:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 48.590 ms

Loss rate: 0.67%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 08:08:50

End at: 2019-11-24 08:09:20

Local clock offset: 4.105 ms

Remote clock offset: 4.308 ms

# Below is generated by plot.py at 2019-11-24 11:35:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.94 Mbit/s

95th percentile per-packet one-way delay: 52.999 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 82.00 Mbit/s

95th percentile per-packet one-way delay: 52.501 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 57.671 ms

Loss rate: 0.96%

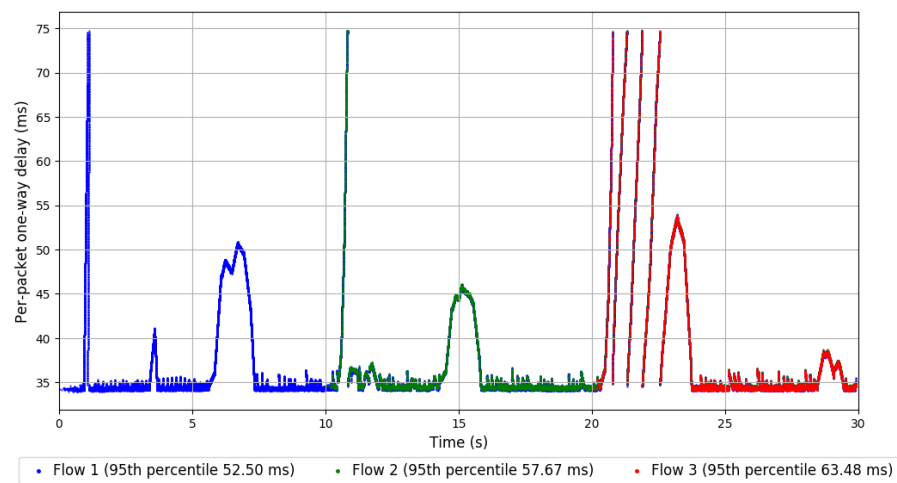
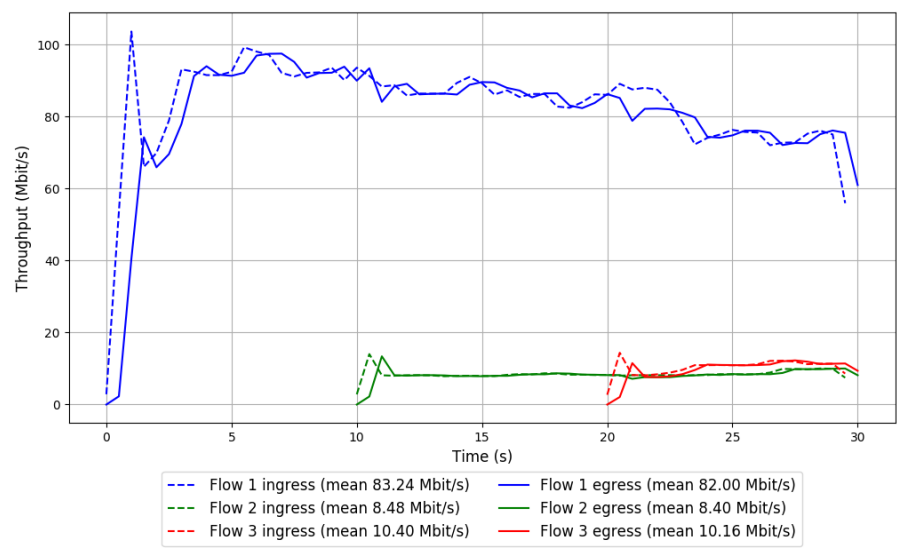
-- Flow 3:

Average throughput: 10.16 Mbit/s

95th percentile per-packet one-way delay: 63.475 ms

Loss rate: 2.22%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 09:07:25

End at: 2019-11-24 09:07:55

Local clock offset: 3.192 ms

Remote clock offset: 4.238 ms

# Below is generated by plot.py at 2019-11-24 11:35:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 65.830 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 65.701 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 66.113 ms

Loss rate: 0.42%

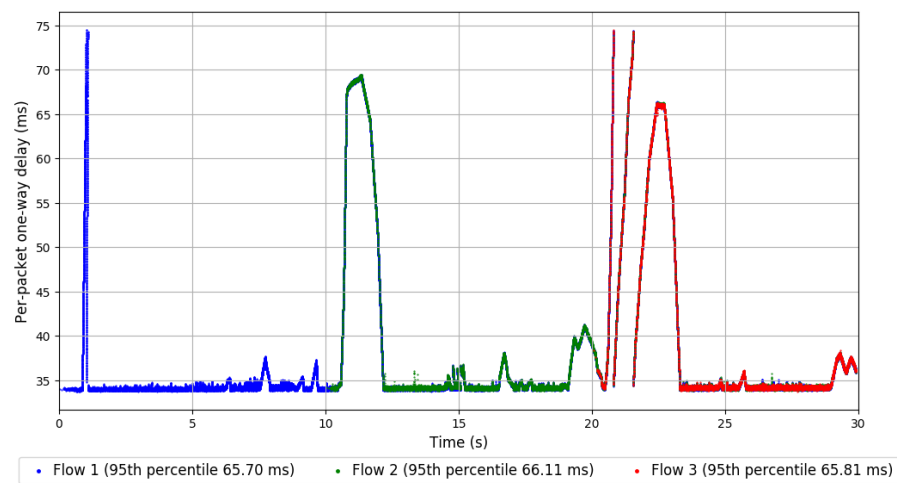
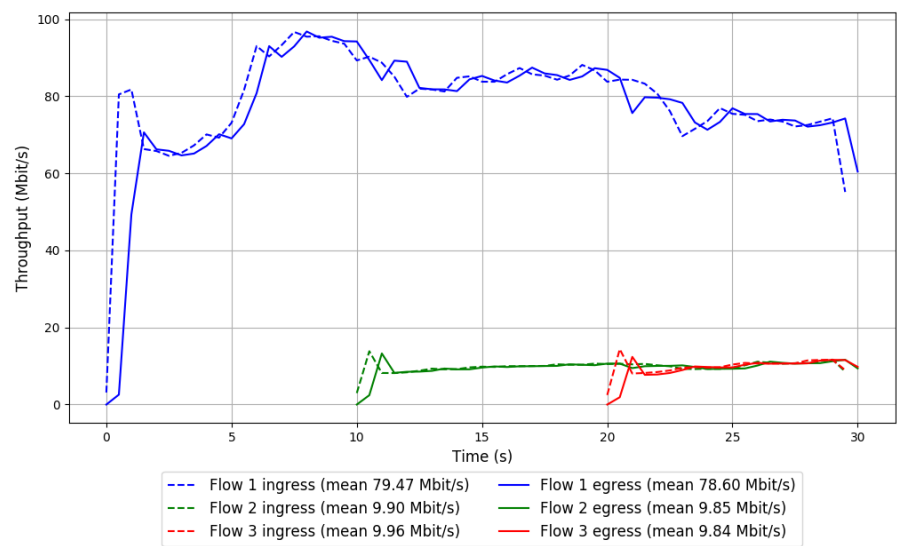
-- Flow 3:

Average throughput: 9.84 Mbit/s

95th percentile per-packet one-way delay: 65.811 ms

Loss rate: 1.24%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 09:48:43

End at: 2019-11-24 09:49:13

Local clock offset: 2.944 ms

Remote clock offset: 4.21 ms

# Below is generated by plot.py at 2019-11-24 11:35:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.91 Mbit/s

95th percentile per-packet one-way delay: 58.471 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 73.66 Mbit/s

95th percentile per-packet one-way delay: 58.181 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 21.81 Mbit/s

95th percentile per-packet one-way delay: 59.251 ms

Loss rate: 1.51%

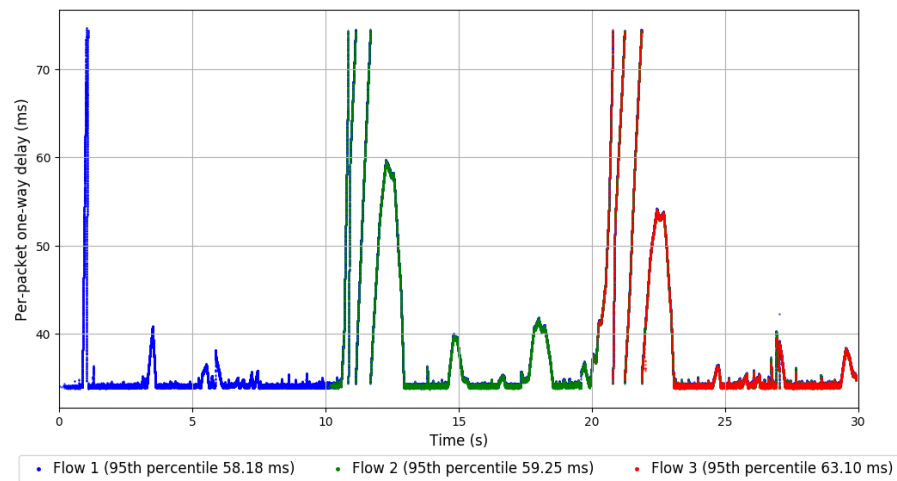
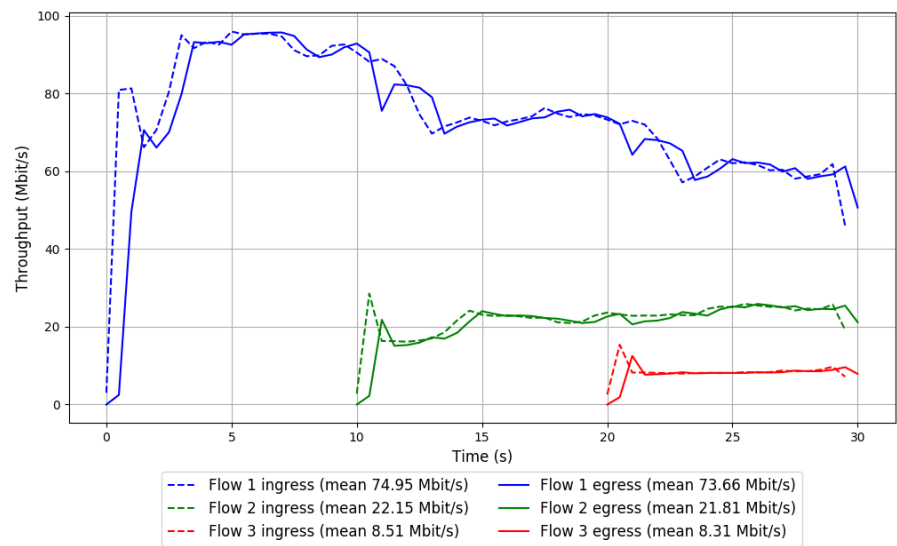
-- Flow 3:

Average throughput: 8.31 Mbit/s

95th percentile per-packet one-way delay: 63.104 ms

Loss rate: 2.31%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 10:30:33

End at: 2019-11-24 10:31:03

Local clock offset: 2.599 ms

Remote clock offset: 4.05 ms

# Below is generated by plot.py at 2019-11-24 11:36:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 61.004 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 59.825 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 64.328 ms

Loss rate: 1.62%

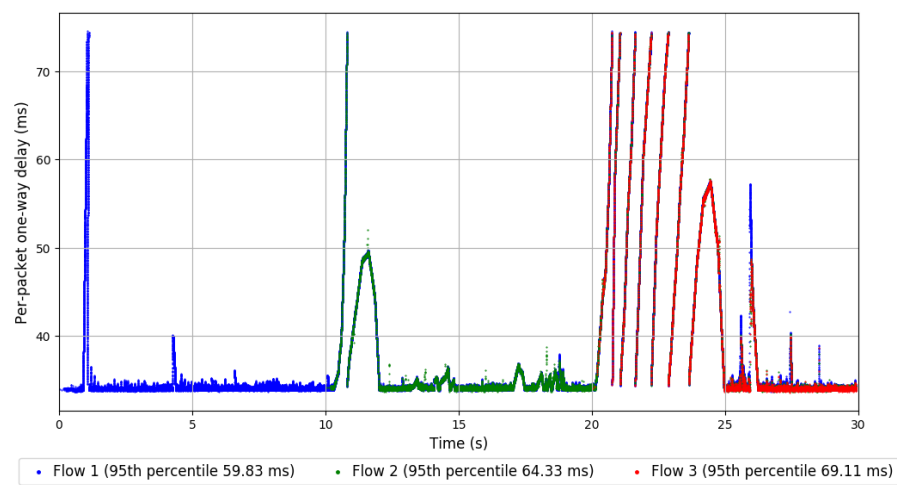
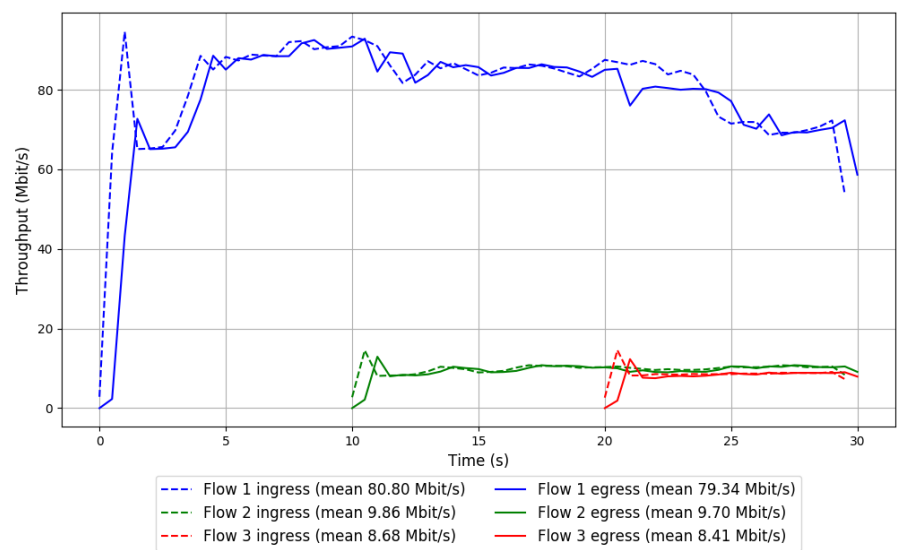
-- Flow 3:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 69.112 ms

Loss rate: 3.05%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 11:12:30

End at: 2019-11-24 11:13:00

Local clock offset: 2.757 ms

Remote clock offset: 4.069 ms

# Below is generated by plot.py at 2019-11-24 11:36:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 69.884 ms

Loss rate: 4.46%

-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 69.053 ms

Loss rate: 3.98%

-- Flow 2:

Average throughput: 16.92 Mbit/s

95th percentile per-packet one-way delay: 71.158 ms

Loss rate: 5.47%

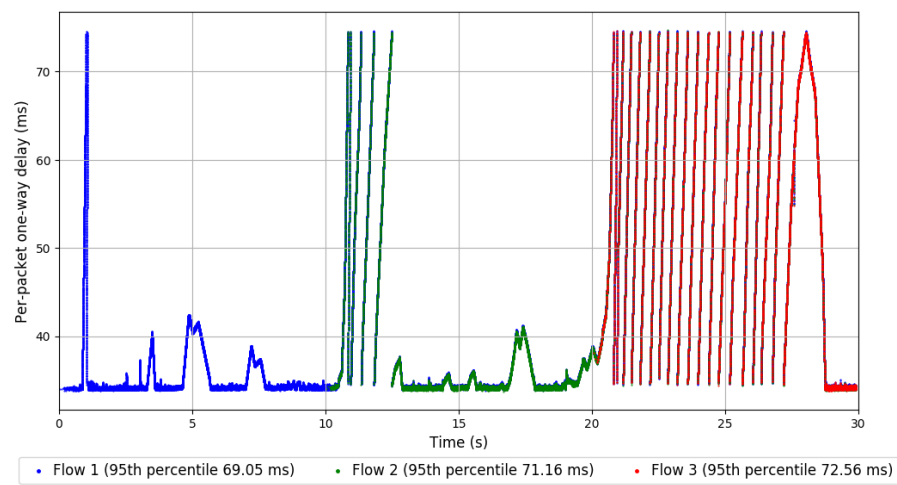
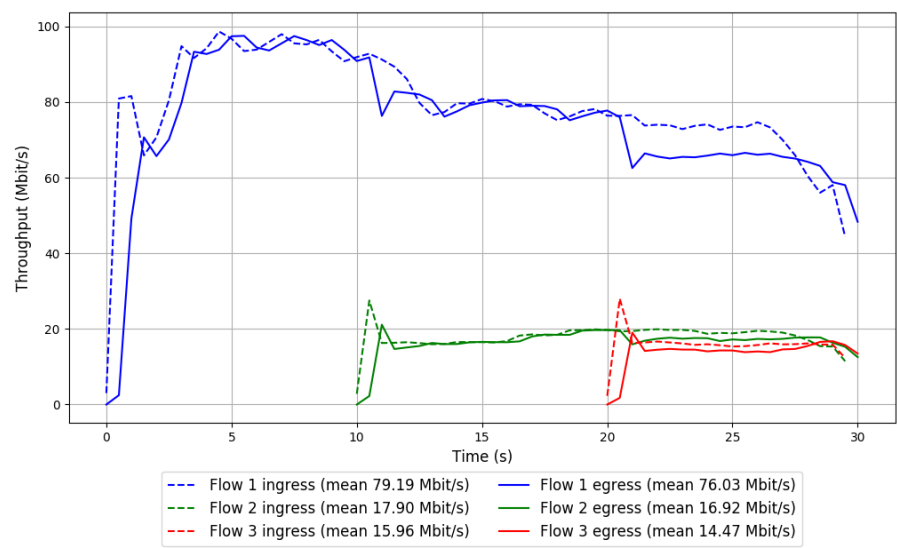
-- Flow 3:

Average throughput: 14.47 Mbit/s

95th percentile per-packet one-way delay: 72.561 ms

Loss rate: 9.37%

Run 5: Report of PCC-Allegro — Data Link

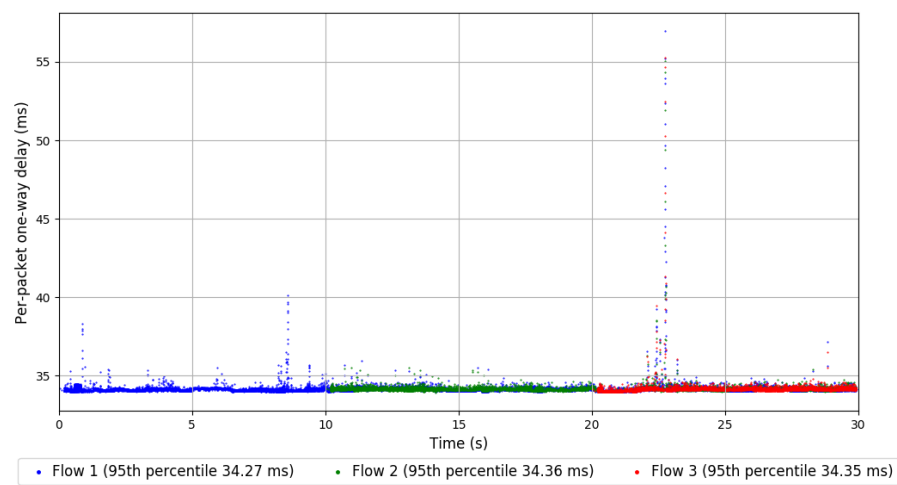
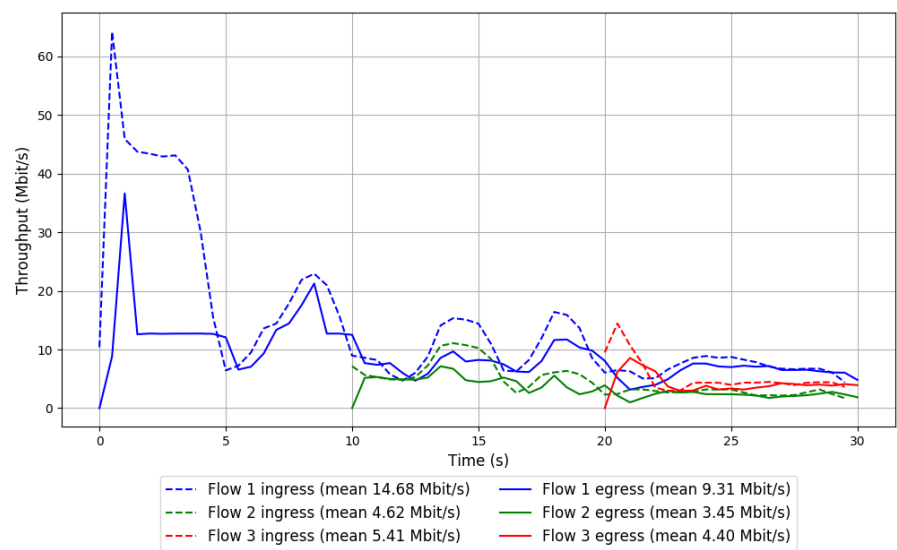


```
Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 07:45:10
End at: 2019-11-24 07:45:40
Local clock offset: 4.16 ms
Remote clock offset: 4.531 ms

# Below is generated by plot.py at 2019-11-24 11:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 34.302 ms
Loss rate: 33.22%
-- Flow 1:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 34.275 ms
Loss rate: 36.61%
-- Flow 2:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 34.358 ms
Loss rate: 25.45%
-- Flow 3:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 34.349 ms
Loss rate: 18.67%
```

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 08:51:19

End at: 2019-11-24 08:51:49

Local clock offset: 3.204 ms

Remote clock offset: 4.338 ms

# Below is generated by plot.py at 2019-11-24 11:36:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 34.144 ms

Loss rate: 34.89%

-- Flow 1:

Average throughput: 8.10 Mbit/s

95th percentile per-packet one-way delay: 34.144 ms

Loss rate: 38.36%

-- Flow 2:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 34.133 ms

Loss rate: 27.64%

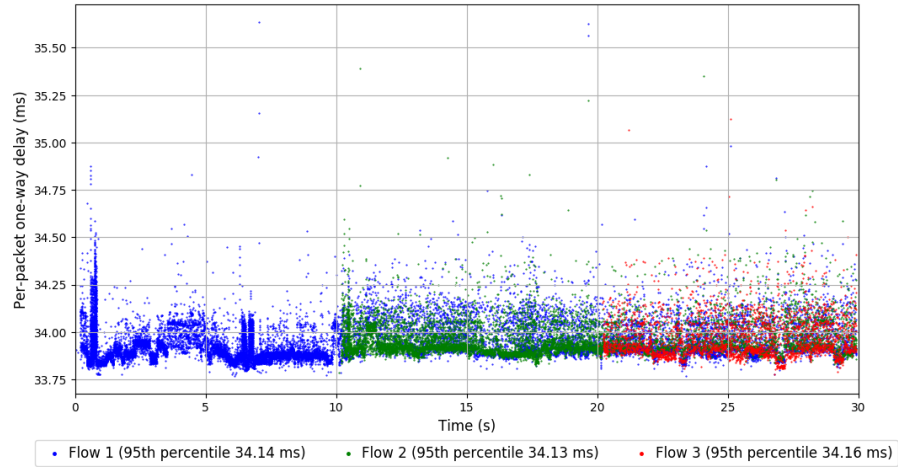
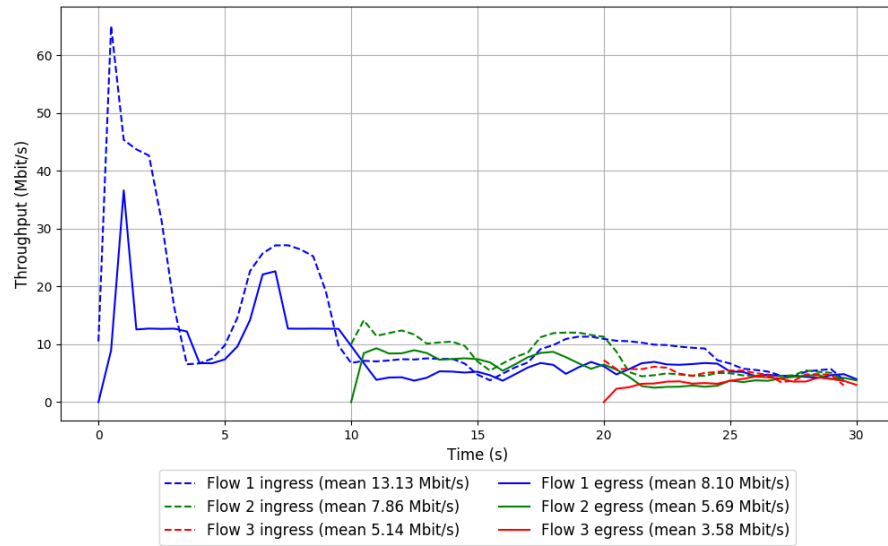
-- Flow 3:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 34.163 ms

Loss rate: 30.31%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 09:36:34

End at: 2019-11-24 09:37:04

Local clock offset: 3.069 ms

Remote clock offset: 4.302 ms

# Below is generated by plot.py at 2019-11-24 11:36:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 34.257 ms

Loss rate: 44.13%

-- Flow 1:

Average throughput: 8.25 Mbit/s

95th percentile per-packet one-way delay: 34.251 ms

Loss rate: 50.42%

-- Flow 2:

Average throughput: 5.05 Mbit/s

95th percentile per-packet one-way delay: 34.253 ms

Loss rate: 29.60%

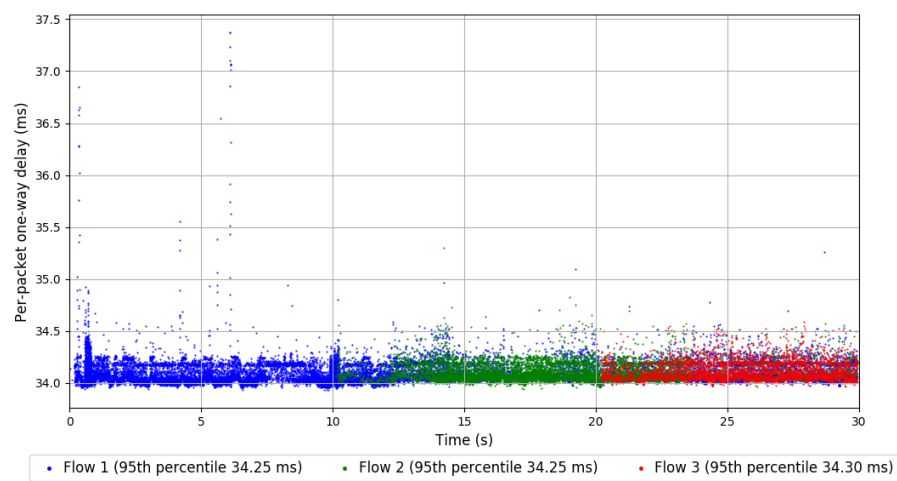
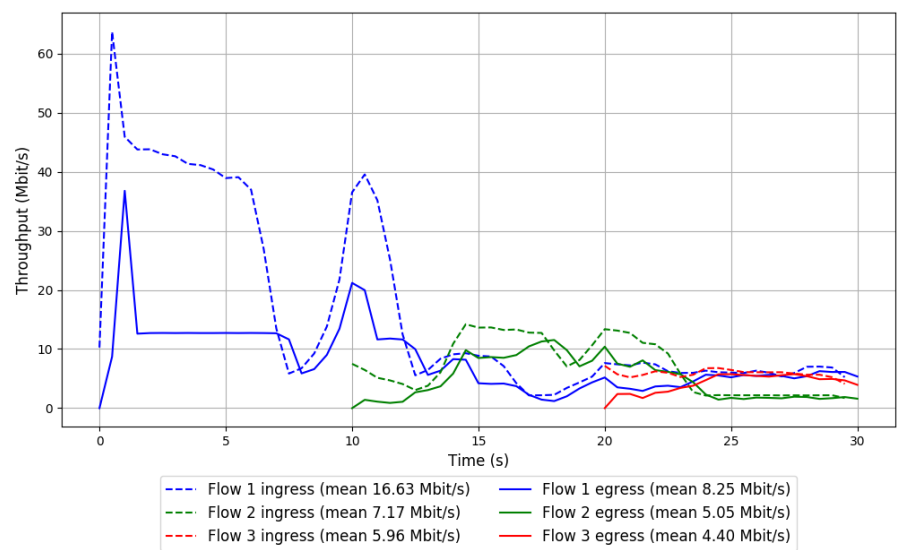
-- Flow 3:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 34.296 ms

Loss rate: 26.11%

Run 3: Report of PCC-Expr — Data Link

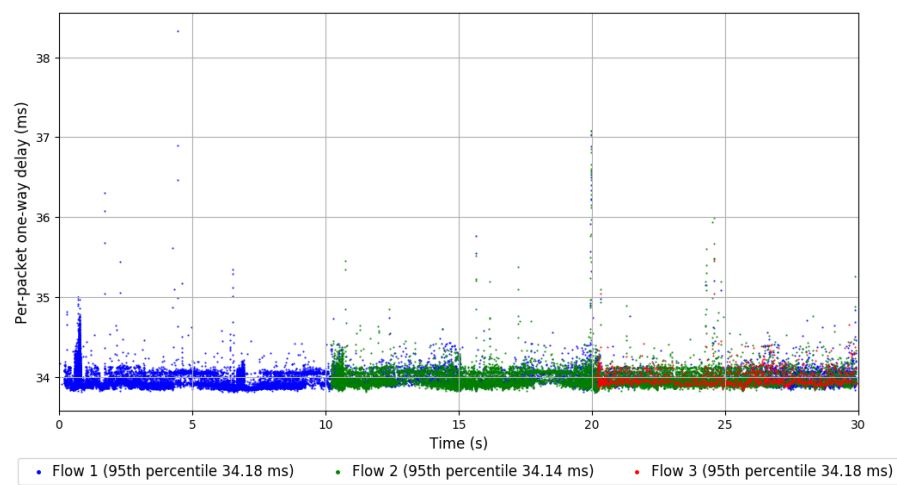
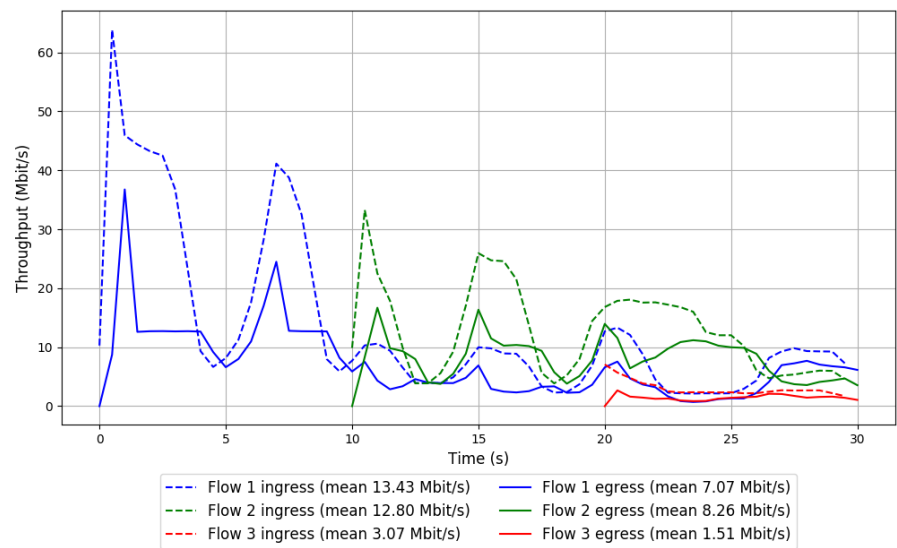


```
Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 10:16:08
End at: 2019-11-24 10:16:38
Local clock offset: 2.715 ms
Remote clock offset: 4.153 ms

# Below is generated by plot.py at 2019-11-24 11:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 34.162 ms
Loss rate: 43.13%
-- Flow 1:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 34.184 ms
Loss rate: 47.39%
-- Flow 2:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 34.141 ms
Loss rate: 35.47%
-- Flow 3:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 34.179 ms
Loss rate: 50.89%
```

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 10:58:07

End at: 2019-11-24 10:58:37

Local clock offset: 2.703 ms

Remote clock offset: 4.001 ms

# Below is generated by plot.py at 2019-11-24 11:36:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 34.102 ms

Loss rate: 39.53%

-- Flow 1:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 34.093 ms

Loss rate: 46.54%

-- Flow 2:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 34.100 ms

Loss rate: 26.18%

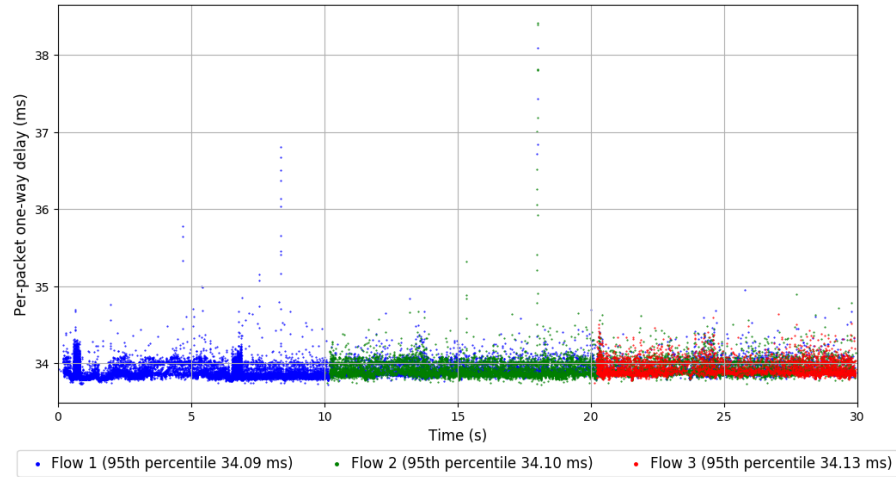
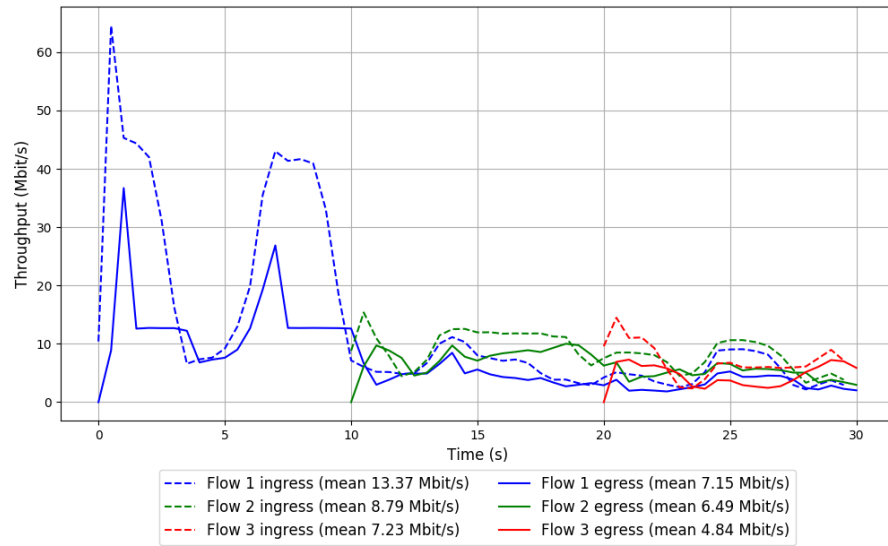
-- Flow 3:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 34.134 ms

Loss rate: 32.99%

## Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 07:41:33

End at: 2019-11-24 07:42:03

Local clock offset: 4.249 ms

Remote clock offset: 4.324 ms

# Below is generated by plot.py at 2019-11-24 11:36:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 70.553 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 67.19 Mbit/s

95th percentile per-packet one-way delay: 70.466 ms

Loss rate: 2.81%

-- Flow 2:

Average throughput: 16.44 Mbit/s

95th percentile per-packet one-way delay: 70.898 ms

Loss rate: 1.35%

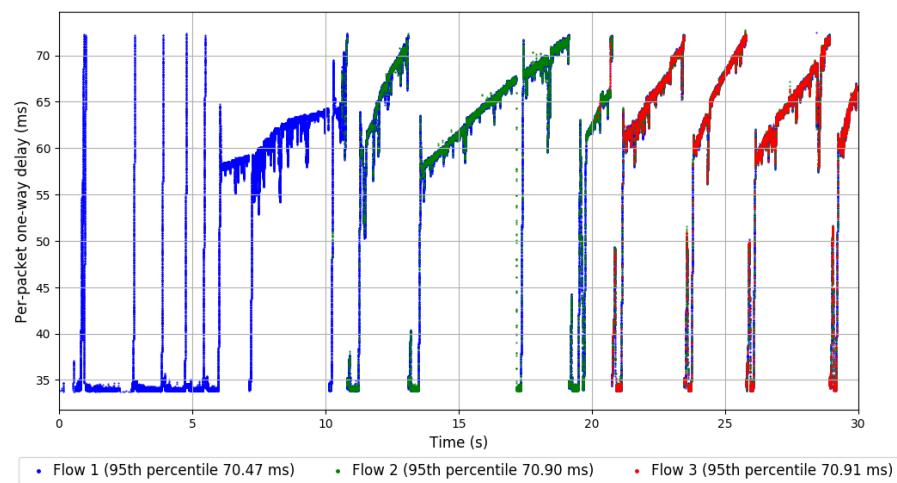
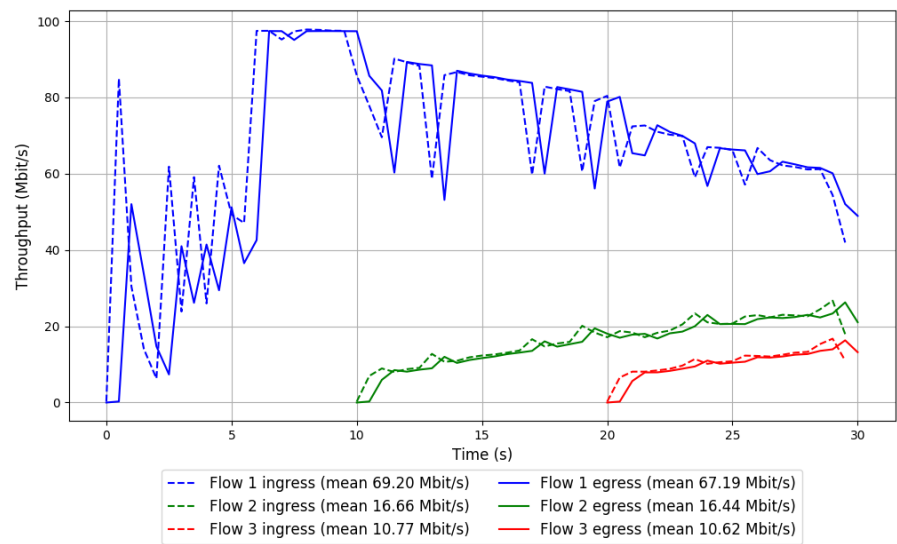
-- Flow 3:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 70.909 ms

Loss rate: 1.33%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 08:49:03

End at: 2019-11-24 08:49:33

Local clock offset: 3.194 ms

Remote clock offset: 4.356 ms

# Below is generated by plot.py at 2019-11-24 11:36:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.61 Mbit/s

95th percentile per-packet one-way delay: 70.791 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 68.91 Mbit/s

95th percentile per-packet one-way delay: 70.740 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 14.84 Mbit/s

95th percentile per-packet one-way delay: 70.969 ms

Loss rate: 1.16%

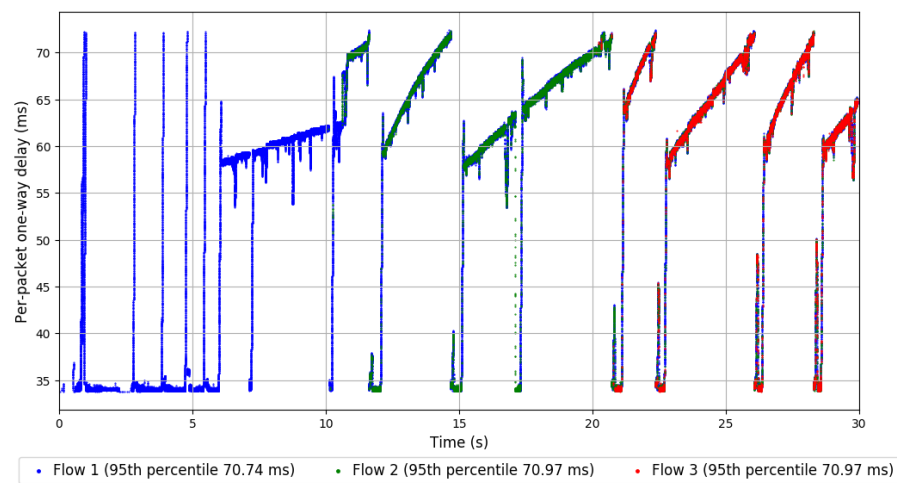
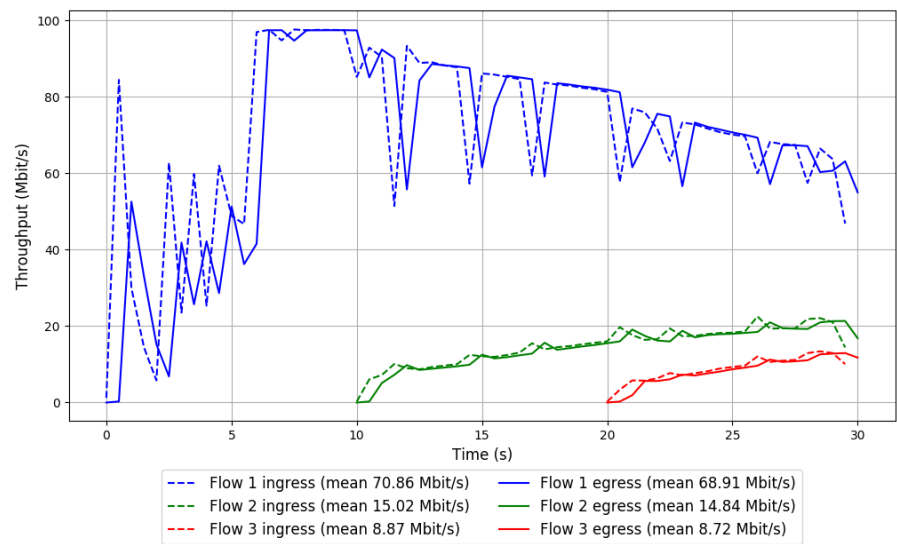
-- Flow 3:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 70.975 ms

Loss rate: 1.82%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 09:34:44

End at: 2019-11-24 09:35:14

Local clock offset: 3.066 ms

Remote clock offset: 4.319 ms

# Below is generated by plot.py at 2019-11-24 11:36:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 71.254 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 71.201 ms

Loss rate: 3.03%

-- Flow 2:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 71.439 ms

Loss rate: 1.44%

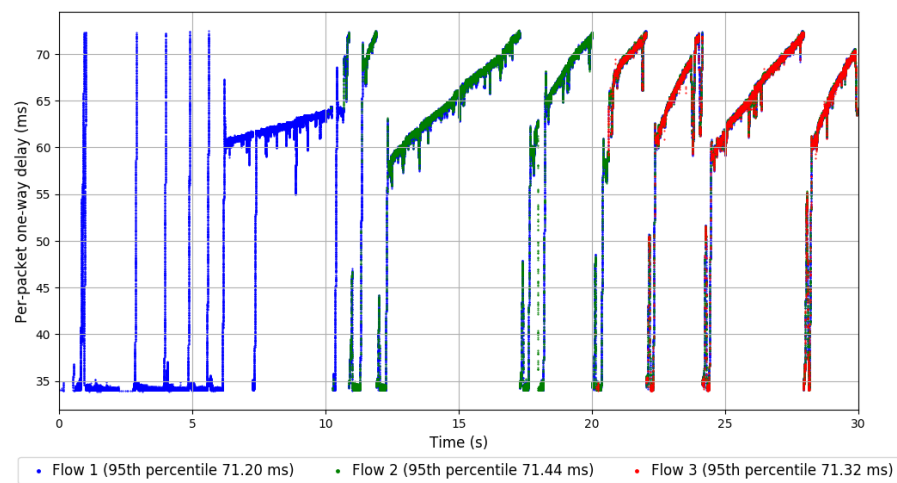
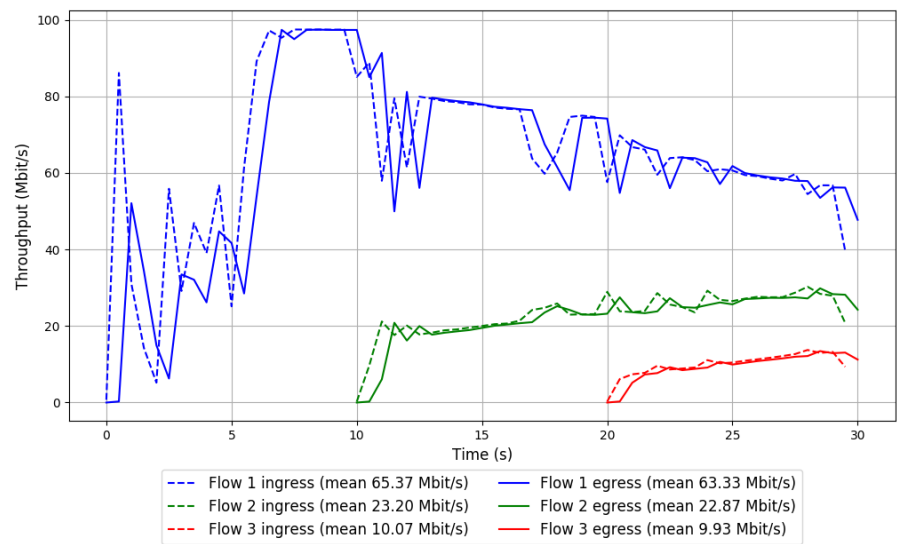
-- Flow 3:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 71.318 ms

Loss rate: 1.17%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 10:14:35

End at: 2019-11-24 10:15:05

Local clock offset: 2.758 ms

Remote clock offset: 4.201 ms

# Below is generated by plot.py at 2019-11-24 11:36:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.25 Mbit/s

95th percentile per-packet one-way delay: 70.759 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 70.714 ms

Loss rate: 2.84%

-- Flow 2:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 70.935 ms

Loss rate: 1.38%

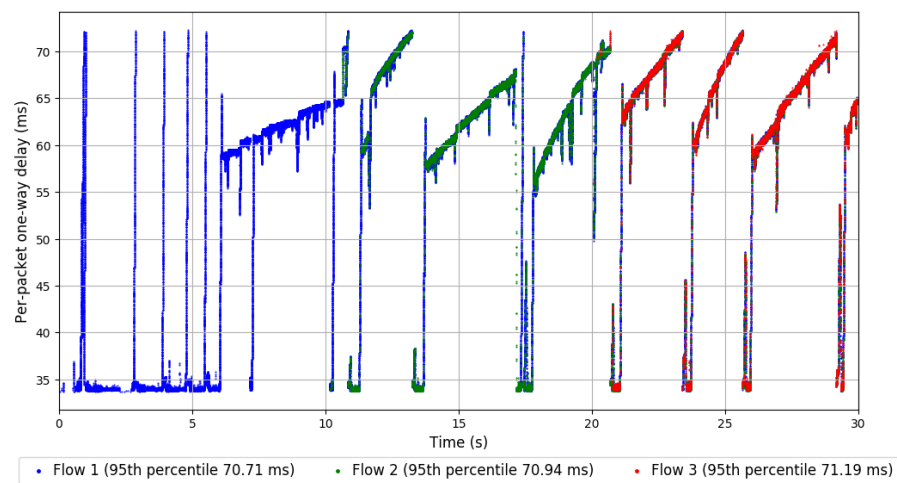
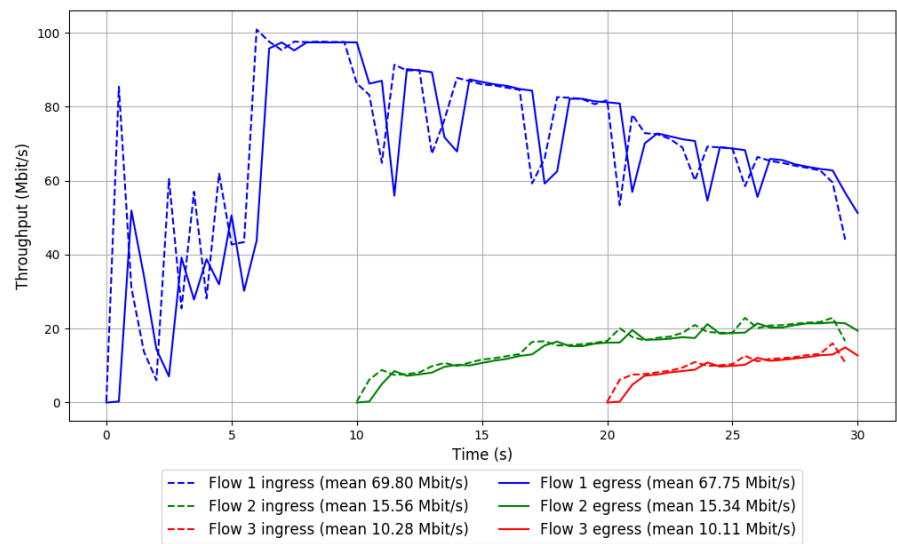
-- Flow 3:

Average throughput: 10.11 Mbit/s

95th percentile per-packet one-way delay: 71.185 ms

Loss rate: 1.59%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 10:56:18

End at: 2019-11-24 10:56:48

Local clock offset: 2.717 ms

Remote clock offset: 4.052 ms

# Below is generated by plot.py at 2019-11-24 11:36:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: 71.077 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 68.18 Mbit/s

95th percentile per-packet one-way delay: 71.086 ms

Loss rate: 2.71%

-- Flow 2:

Average throughput: 14.98 Mbit/s

95th percentile per-packet one-way delay: 71.104 ms

Loss rate: 1.08%

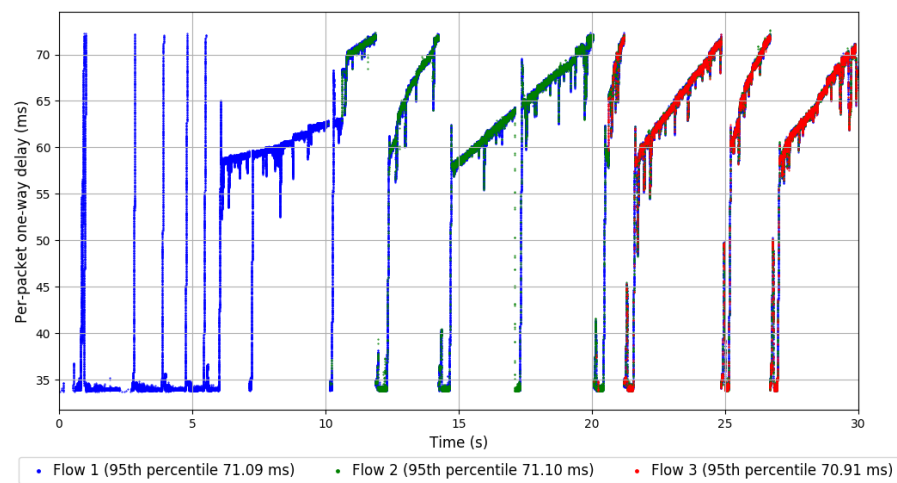
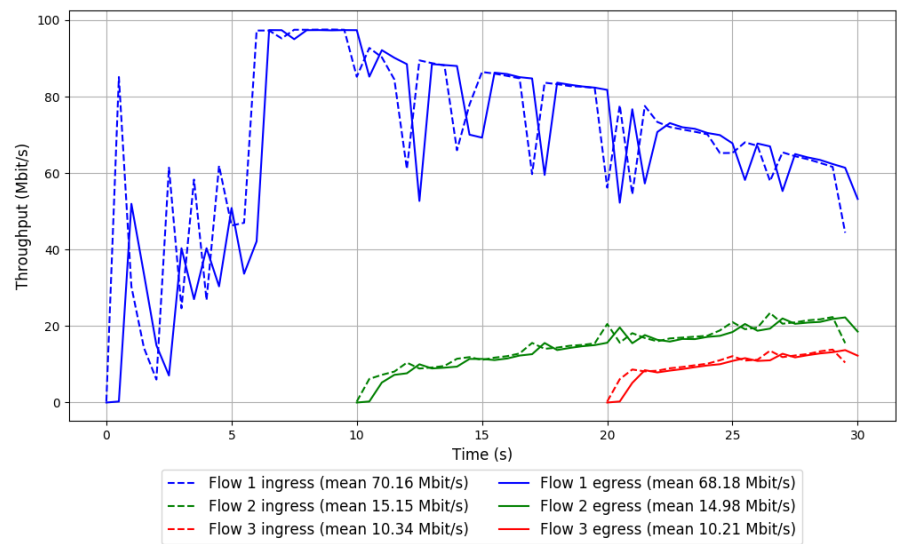
-- Flow 3:

Average throughput: 10.21 Mbit/s

95th percentile per-packet one-way delay: 70.906 ms

Loss rate: 0.97%

Run 5: Report of QUIC Cubic — Data Link

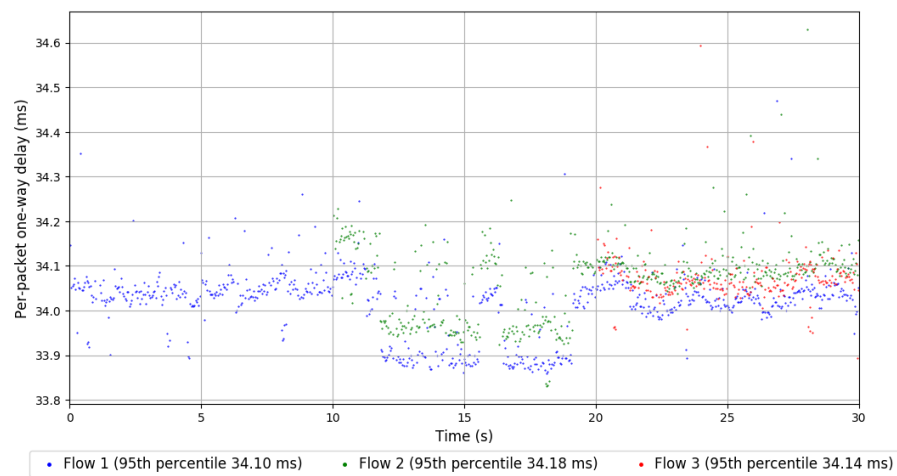
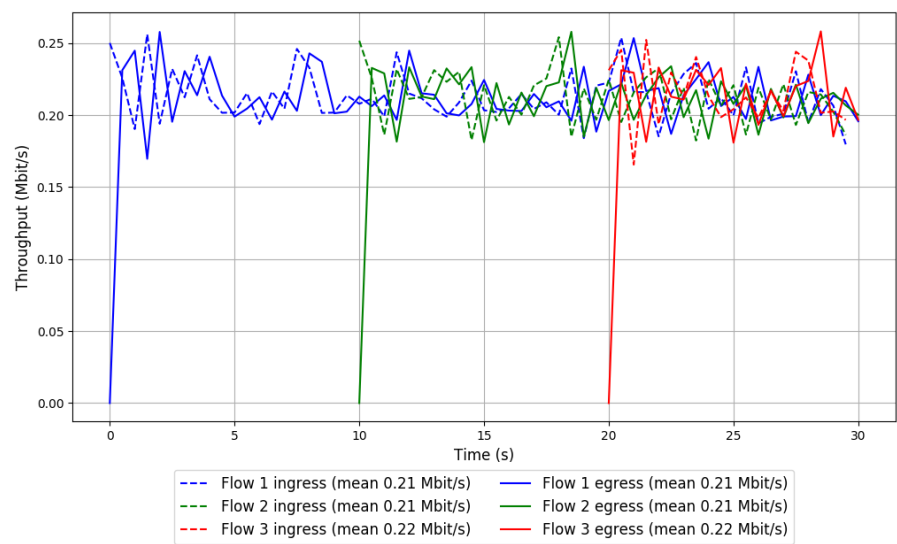


```
Run 1: Statistics of SReAM

Start at: 2019-11-24 07:38:52
End at: 2019-11-24 07:39:22
Local clock offset: 4.342 ms
Remote clock offset: 4.374 ms

# Below is generated by plot.py at 2019-11-24 11:36:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 34.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.103 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.177 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.136 ms
Loss rate: 0.00%
```

Run 1: Report of SCRaM — Data Link



Run 2: Statistics of SReAM

Start at: 2019-11-24 08:46:36

End at: 2019-11-24 08:47:06

Local clock offset: 3.144 ms

Remote clock offset: 4.197 ms

# Below is generated by plot.py at 2019-11-24 11:36:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 34.029 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.038 ms

Loss rate: 0.00%

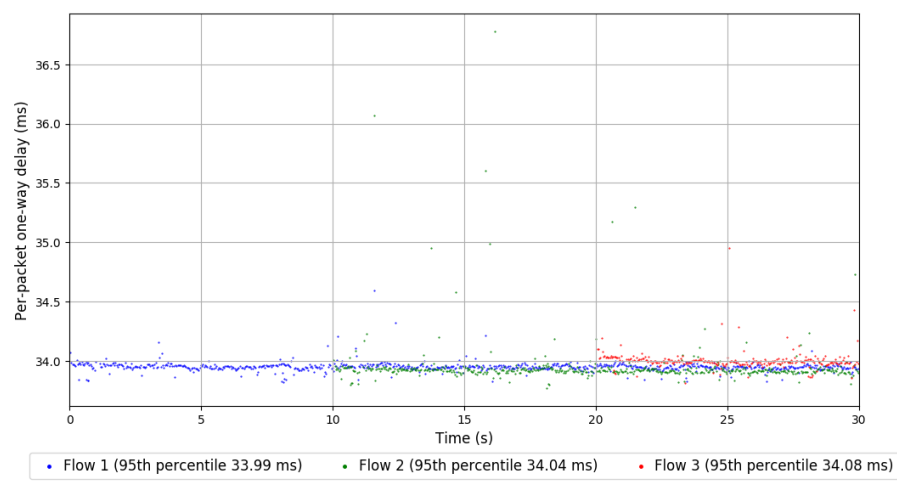
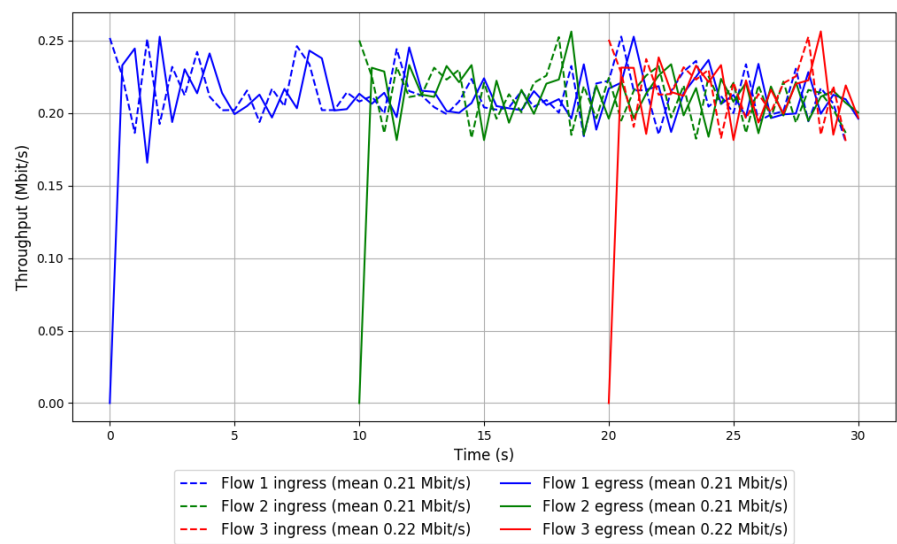
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.080 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2019-11-24 09:32:17

End at: 2019-11-24 09:32:47

Local clock offset: 3.099 ms

Remote clock offset: 4.35 ms

# Below is generated by plot.py at 2019-11-24 11:36:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 34.180 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.157 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.199 ms

Loss rate: 0.00%

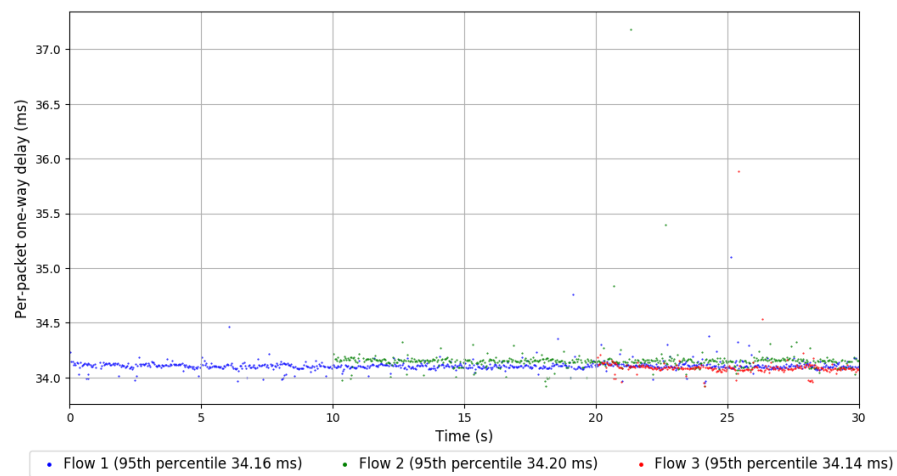
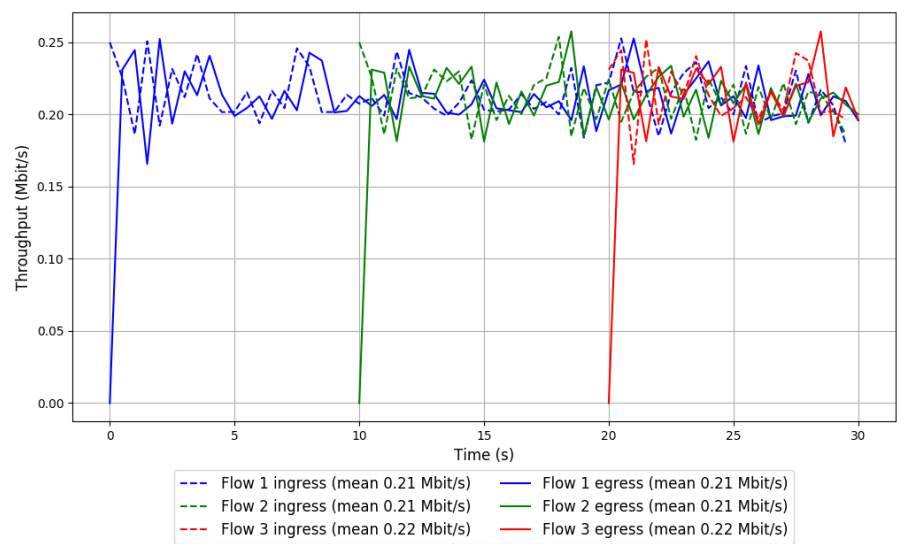
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.141 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link





Run 4: Statistics of SReAM

Start at: 2019-11-24 10:12:09

End at: 2019-11-24 10:12:39

Local clock offset: 2.792 ms

Remote clock offset: 4.137 ms

# Below is generated by plot.py at 2019-11-24 11:36:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 34.017 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.015 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.016 ms

Loss rate: 0.00%

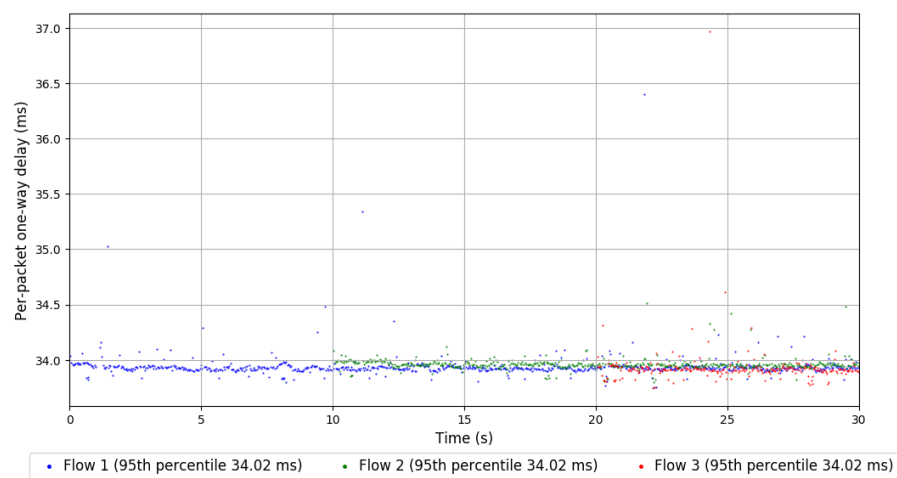
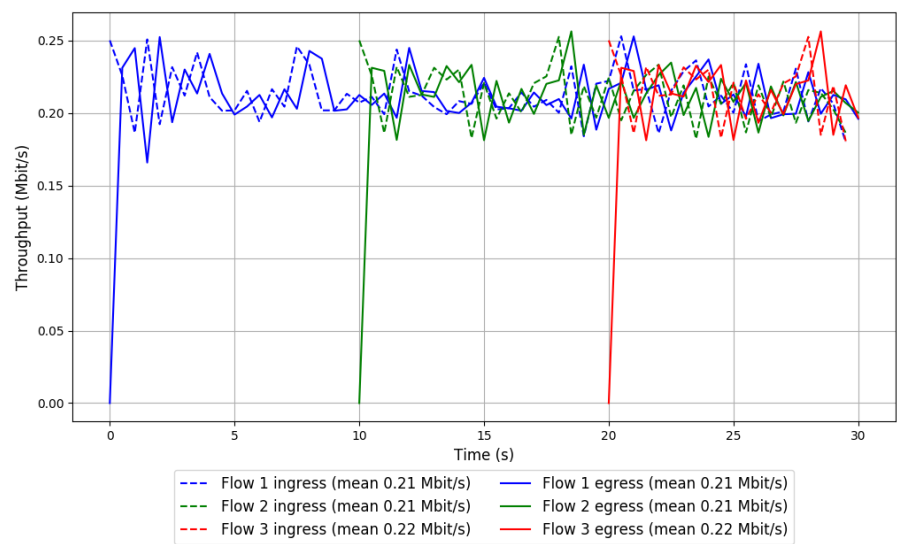
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.018 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-11-24 10:53:50

End at: 2019-11-24 10:54:20

Local clock offset: 2.694 ms

Remote clock offset: 3.997 ms

# Below is generated by plot.py at 2019-11-24 11:36:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 34.048 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.043 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.044 ms

Loss rate: 0.00%

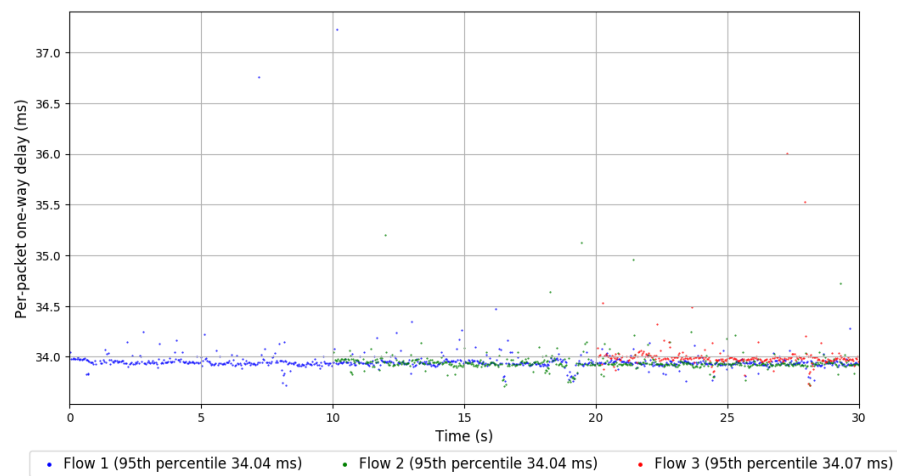
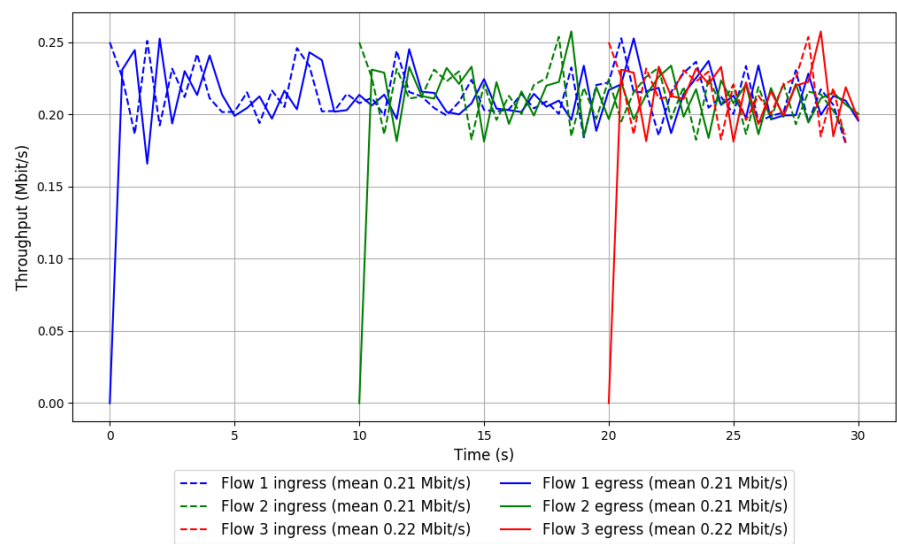
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.069 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-11-24 07:16:24

End at: 2019-11-24 07:16:54

Local clock offset: 3.551 ms

Remote clock offset: 4.311 ms

# Below is generated by plot.py at 2019-11-24 11:36:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 40.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 39.918 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 41.843 ms

Loss rate: 0.00%

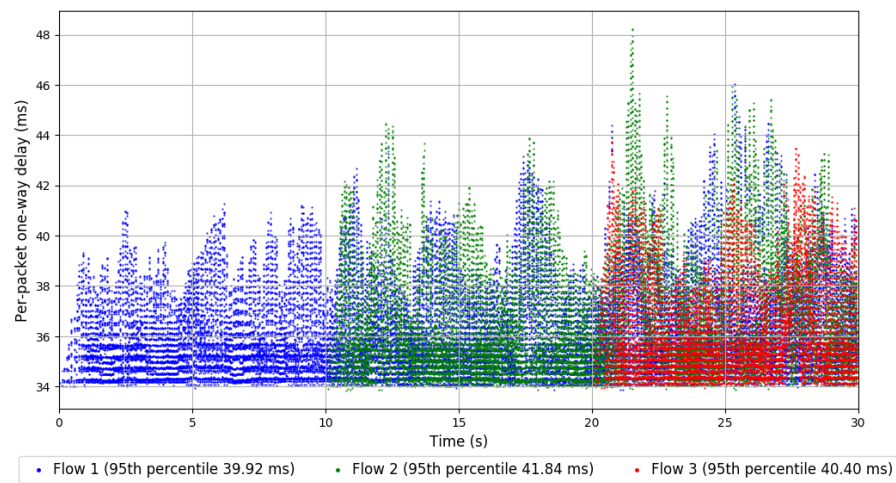
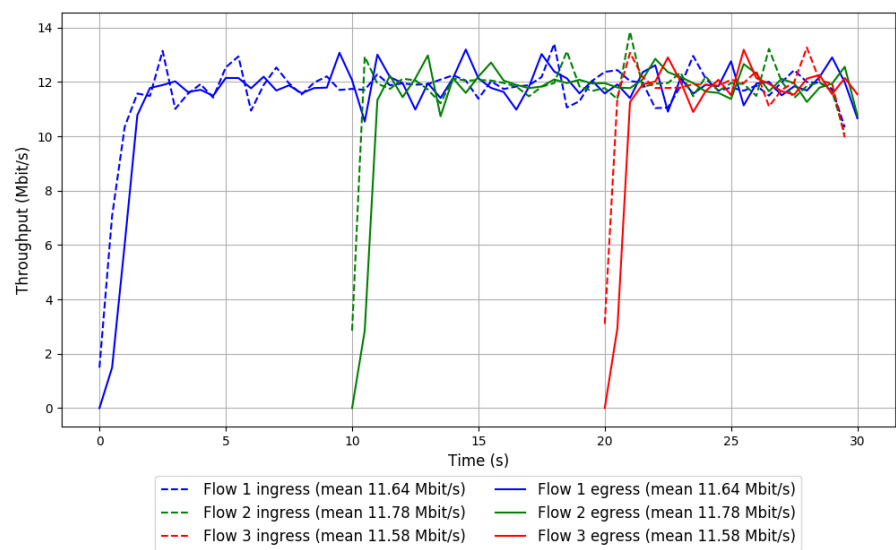
-- Flow 3:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 40.395 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-11-24 08:32:15

End at: 2019-11-24 08:32:45

Local clock offset: 3.18 ms

Remote clock offset: 4.112 ms

# Below is generated by plot.py at 2019-11-24 11:36:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.33 Mbit/s

95th percentile per-packet one-way delay: 40.148 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 40.042 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 39.794 ms

Loss rate: 0.00%

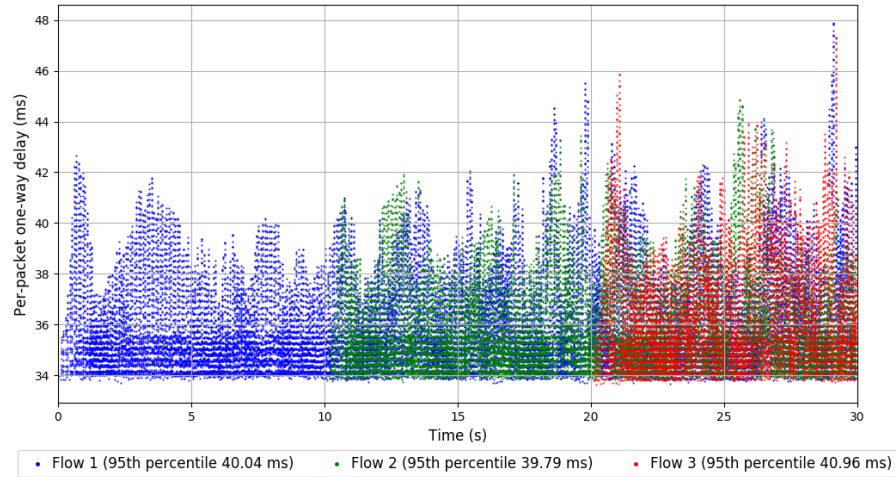
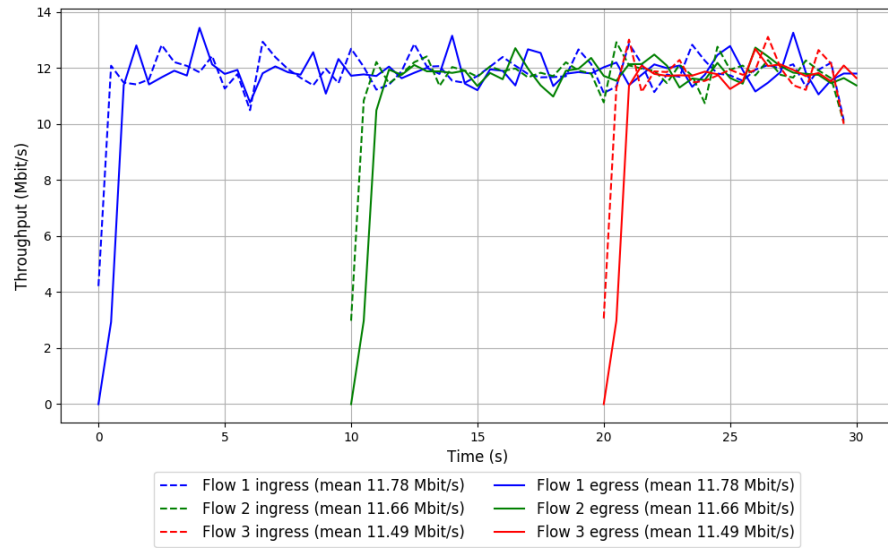
-- Flow 3:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 40.961 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link





### Run 3: Statistics of Sprout

Start at: 2019-11-24 09:22:25

End at: 2019-11-24 09:22:55

Local clock offset: 3.139 ms

Remote clock offset: 4.265 ms

# Below is generated by plot.py at 2019-11-24 11:36:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.36 Mbit/s

95th percentile per-packet one-way delay: 41.037 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 40.628 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 40.845 ms

Loss rate: 0.00%

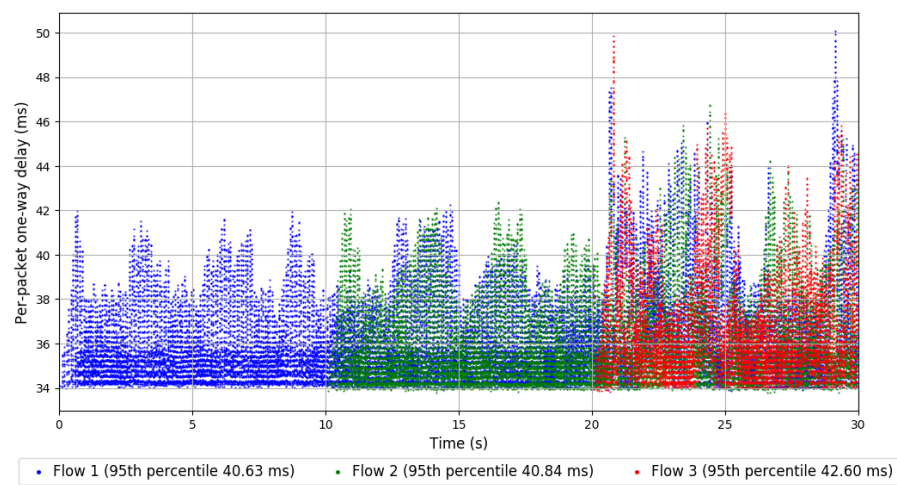
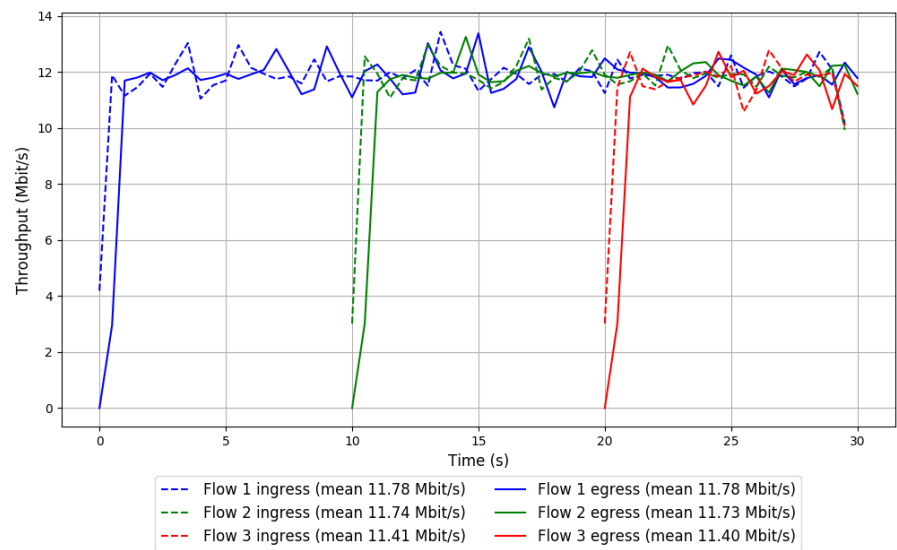
-- Flow 3:

Average throughput: 11.40 Mbit/s

95th percentile per-packet one-way delay: 42.604 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

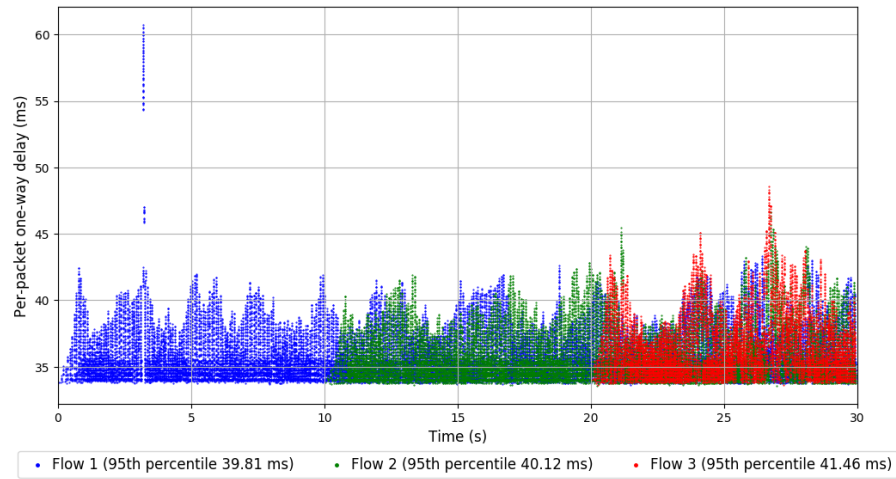
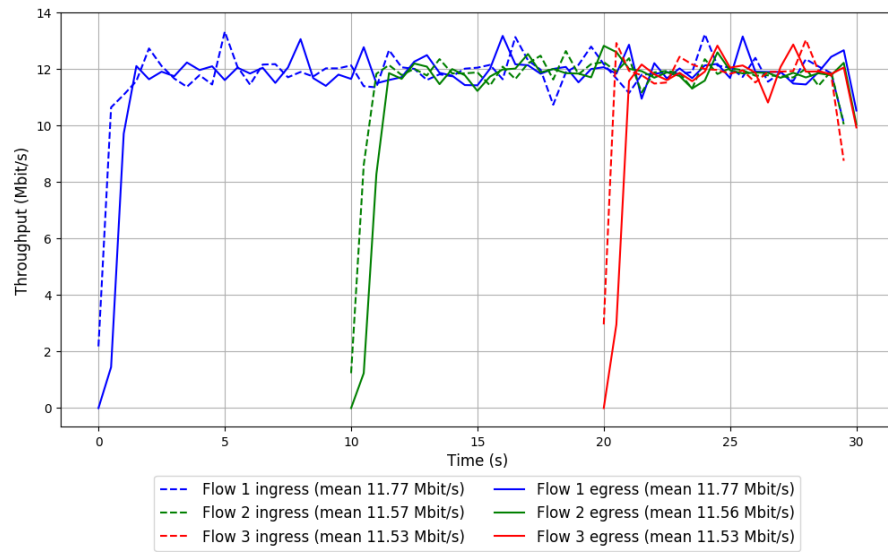


#### Run 4: Statistics of Sprout

Start at: 2019-11-24 10:00:56  
End at: 2019-11-24 10:01:26  
Local clock offset: 2.882 ms  
Remote clock offset: 4.139 ms

```
# Below is generated by plot.py at 2019-11-24 11:36:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 40.194 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 39.811 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 40.124 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 41.457 ms
Loss rate: 0.00%
```

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

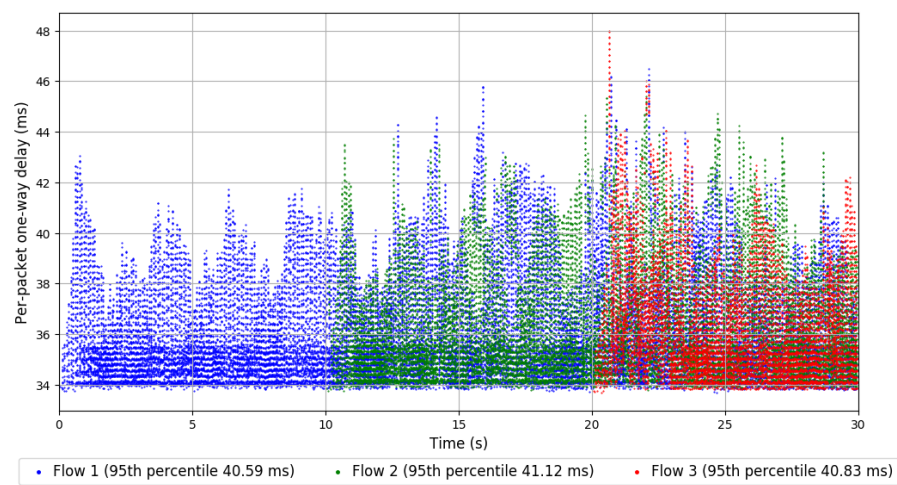
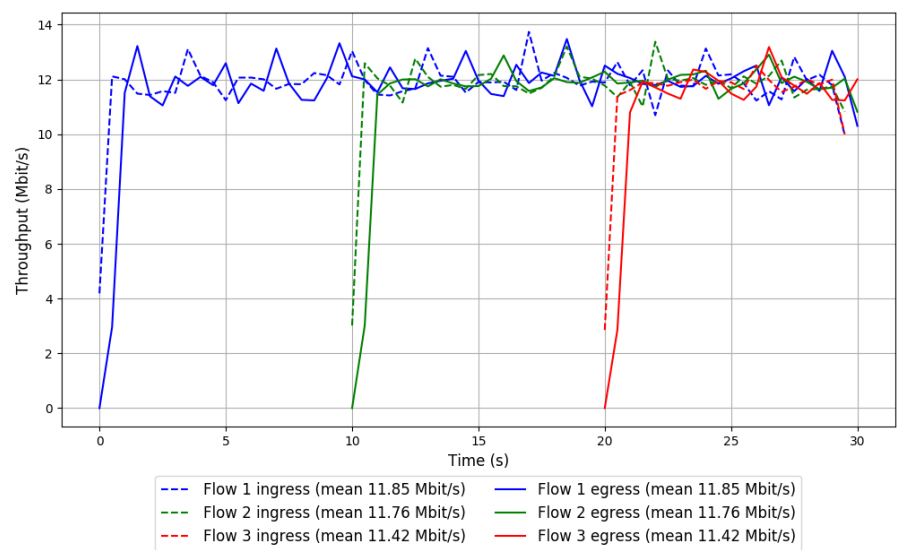


Run 5: Statistics of Sprout

Start at: 2019-11-24 10:43:14  
End at: 2019-11-24 10:43:44  
Local clock offset: 2.596 ms  
Remote clock offset: 4.0 ms

```
# Below is generated by plot.py at 2019-11-24 11:36:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 40.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 40.592 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 41.121 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 40.832 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 08:00:54

End at: 2019-11-24 08:01:24

Local clock offset: 4.053 ms

Remote clock offset: 4.129 ms

# Below is generated by plot.py at 2019-11-24 11:37:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 34.348 ms

Loss rate: 92.66%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.917 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 34.940 ms

Loss rate: 90.12%

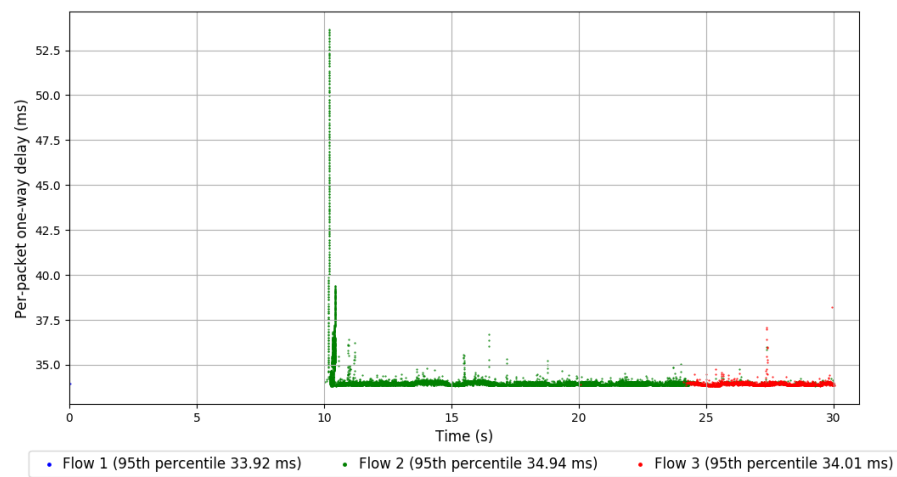
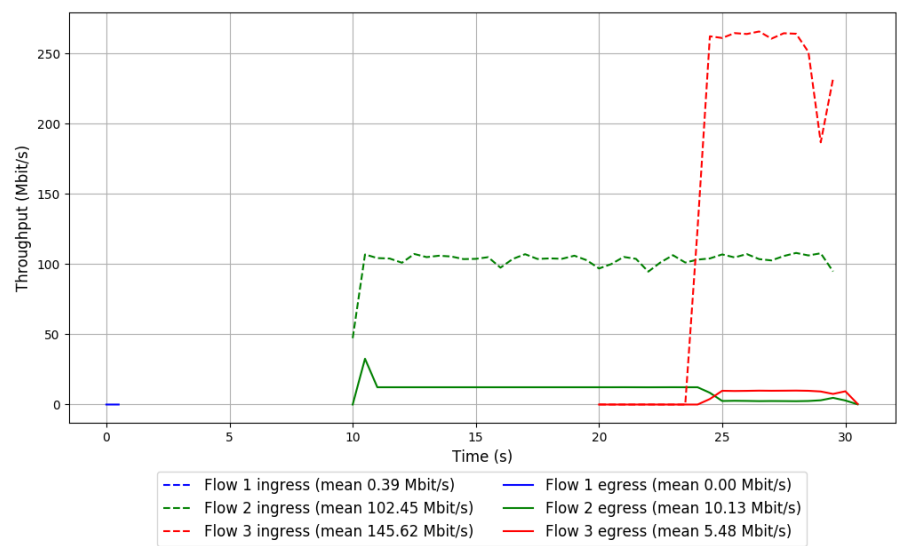
-- Flow 3:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 34.010 ms

Loss rate: 96.24%

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





Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 09:01:21

End at: 2019-11-24 09:01:51

Local clock offset: 3.218 ms

Remote clock offset: 4.409 ms

# Below is generated by plot.py at 2019-11-24 11:37:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 34.342 ms

Loss rate: 92.73%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 34.000 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 35.055 ms

Loss rate: 90.10%

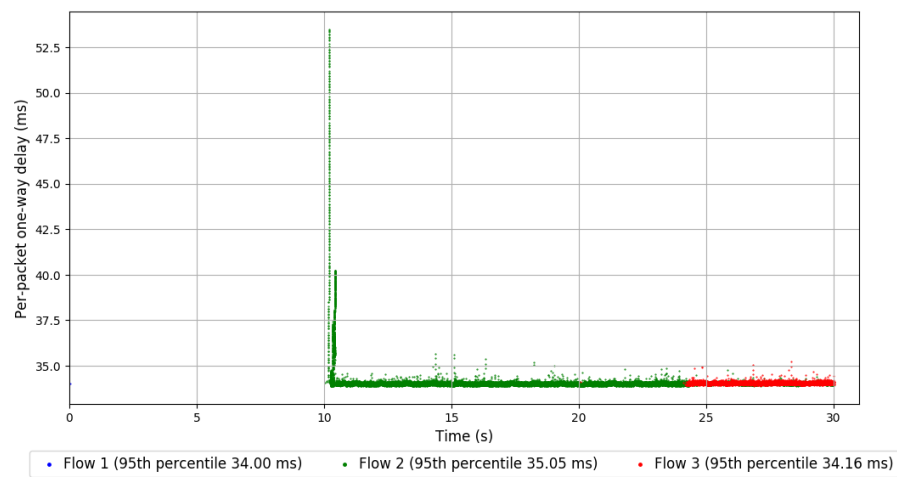
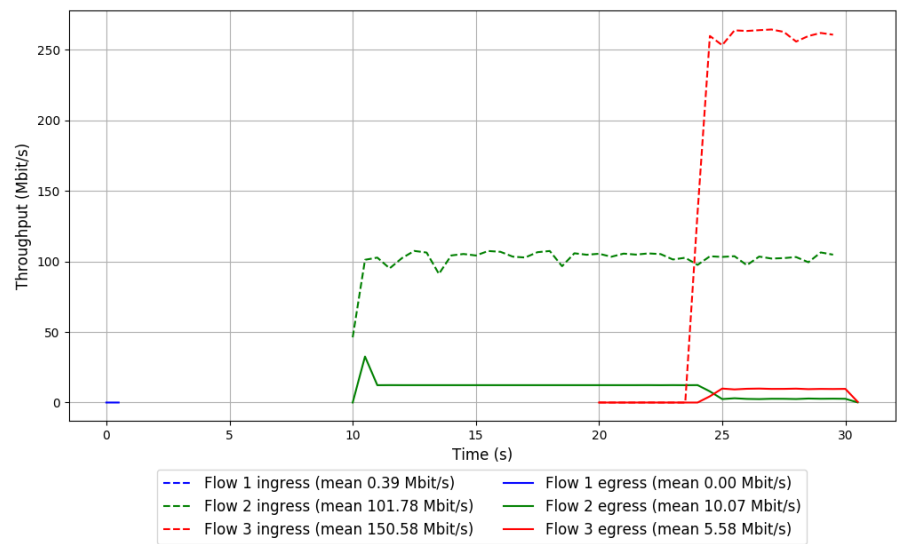
-- Flow 3:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 34.164 ms

Loss rate: 96.29%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 09:43:48

End at: 2019-11-24 09:44:18

Local clock offset: 2.995 ms

Remote clock offset: 4.364 ms

# Below is generated by plot.py at 2019-11-24 11:37:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 34.465 ms

Loss rate: 18.02%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 34.200 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 9.67 Mbit/s

95th percentile per-packet one-way delay: 35.185 ms

Loss rate: 14.36%

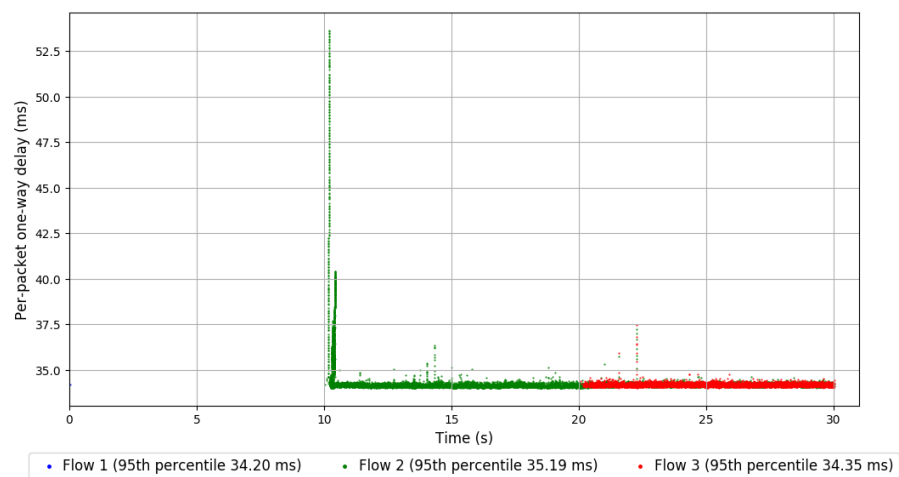
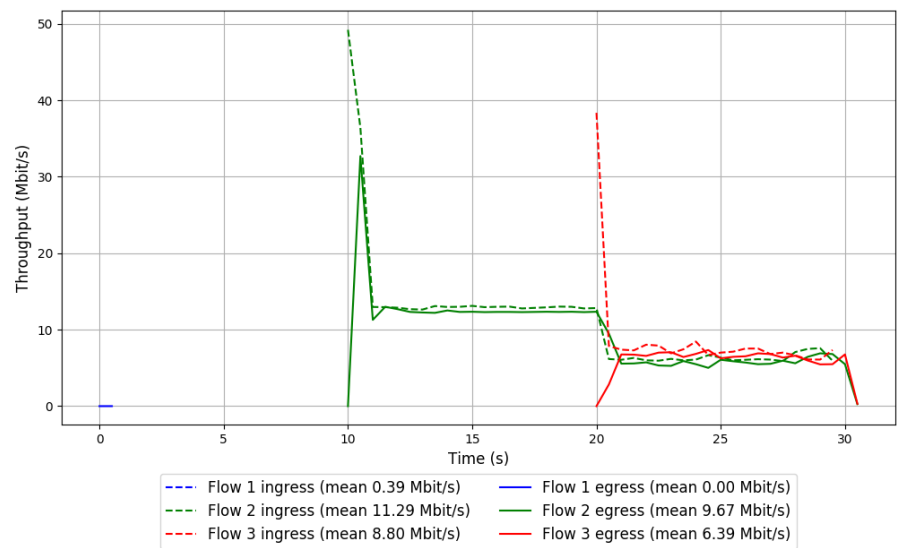
-- Flow 3:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 34.346 ms

Loss rate: 27.39%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 10:25:09

End at: 2019-11-24 10:25:39

Local clock offset: 2.67 ms

Remote clock offset: 4.074 ms

# Below is generated by plot.py at 2019-11-24 11:37:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 35.117 ms

Loss rate: 86.32%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.901 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 34.529 ms

Loss rate: 86.08%

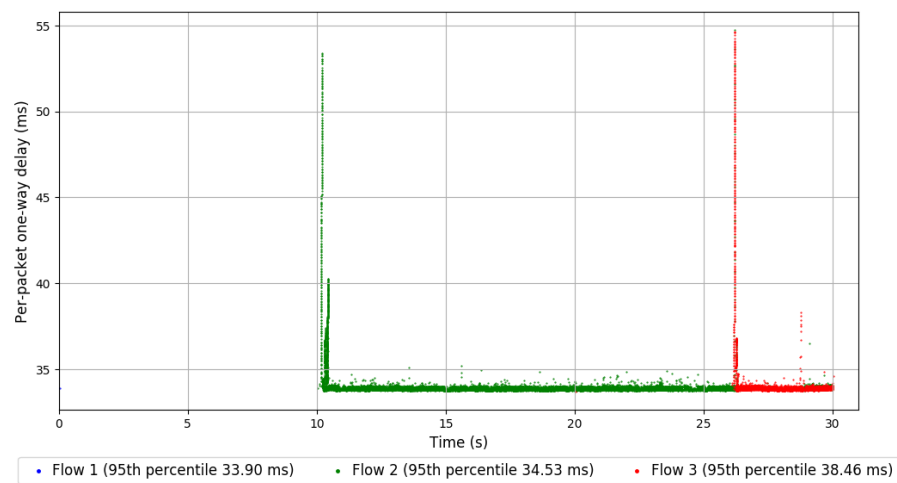
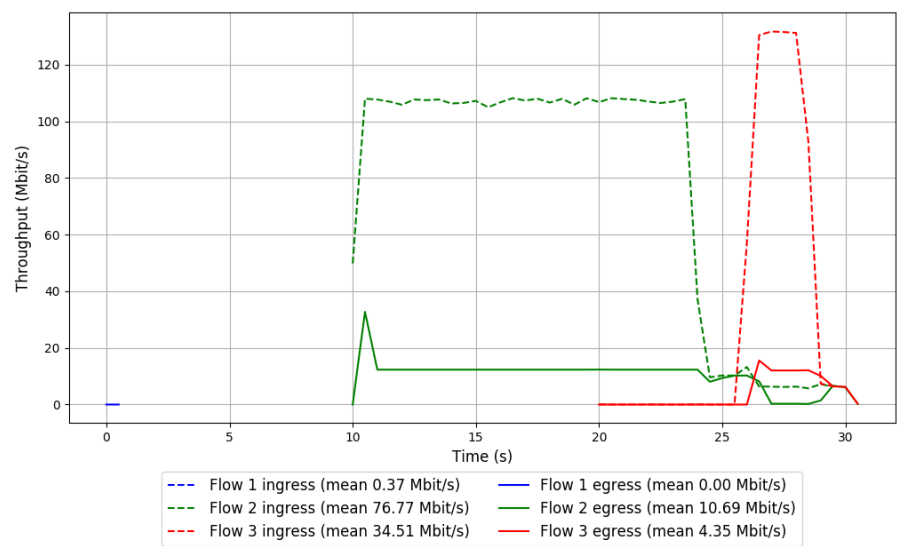
-- Flow 3:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 38.458 ms

Loss rate: 87.39%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 11:07:17

End at: 2019-11-24 11:07:47

Local clock offset: 2.713 ms

Remote clock offset: 3.931 ms

# Below is generated by plot.py at 2019-11-24 11:37:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 34.772 ms

Loss rate: 80.52%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.848 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 35.595 ms

Loss rate: 83.36%

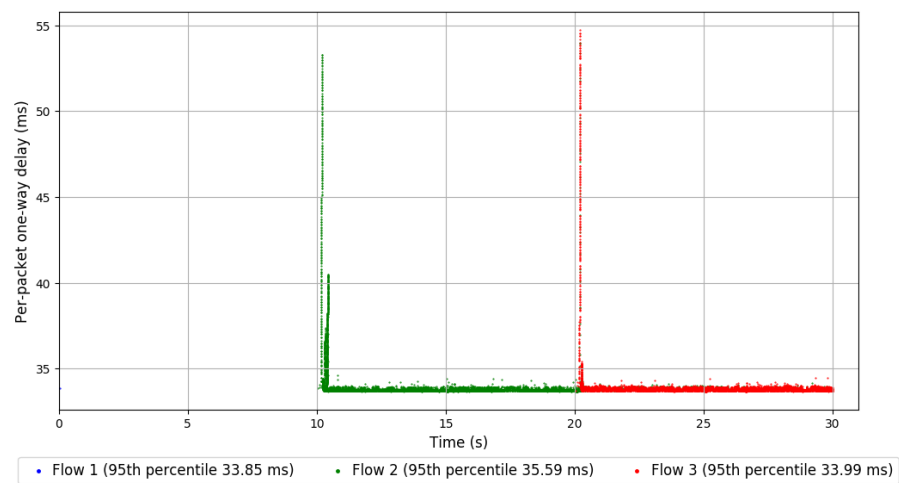
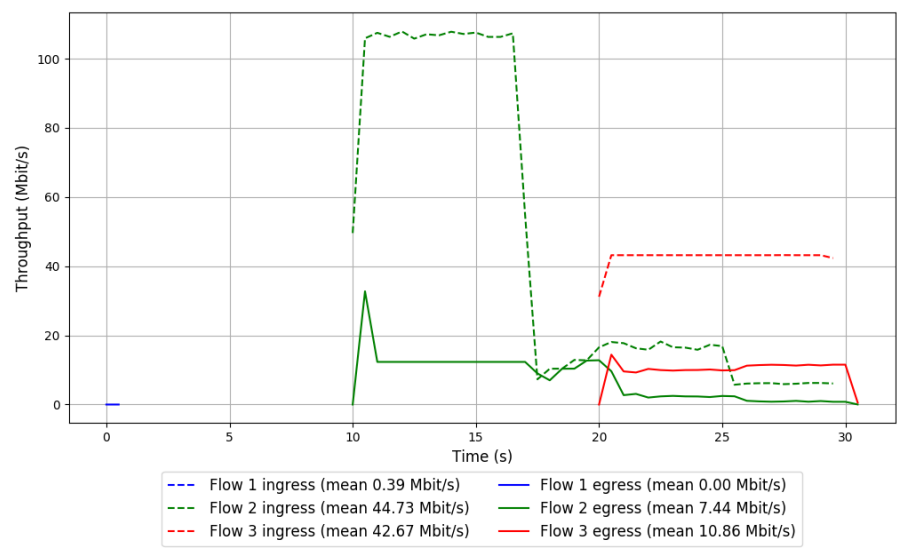
-- Flow 3:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 33.987 ms

Loss rate: 74.55%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 07:46:33

End at: 2019-11-24 07:47:03

Local clock offset: 4.103 ms

Remote clock offset: 4.484 ms

# Below is generated by plot.py at 2019-11-24 11:37:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 46.957 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 79.12 Mbit/s

95th percentile per-packet one-way delay: 46.340 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 49.329 ms

Loss rate: 0.00%

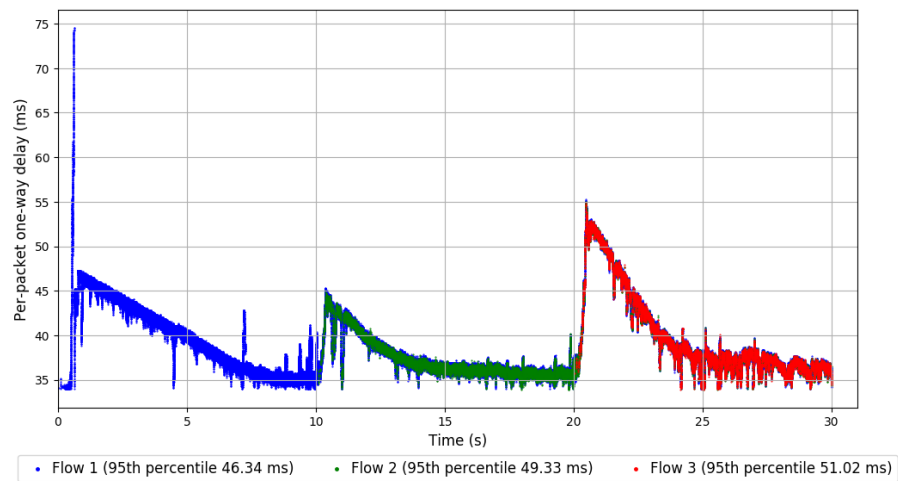
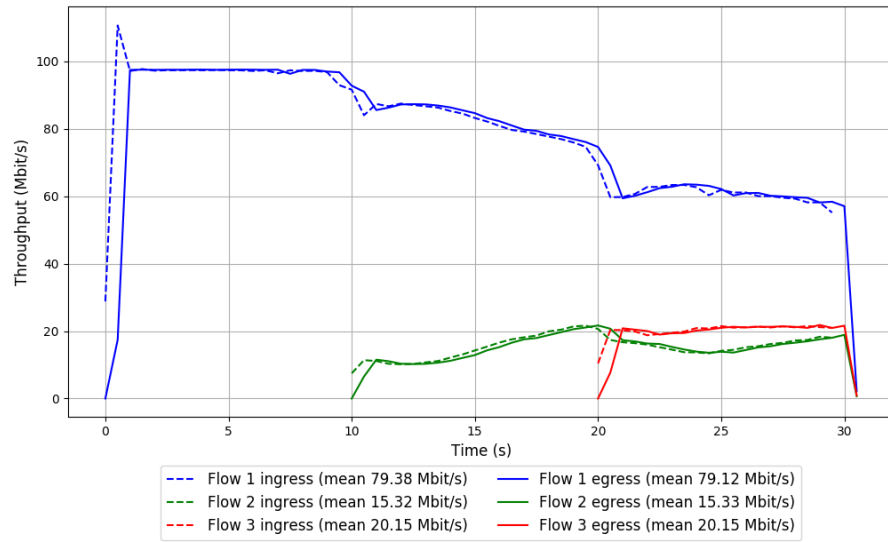
-- Flow 3:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 51.020 ms

Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 08:52:46

End at: 2019-11-24 08:53:16

Local clock offset: 3.235 ms

Remote clock offset: 4.335 ms

# Below is generated by plot.py at 2019-11-24 11:37:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 49.876 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 49.748 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 18.53 Mbit/s

95th percentile per-packet one-way delay: 51.346 ms

Loss rate: 0.00%

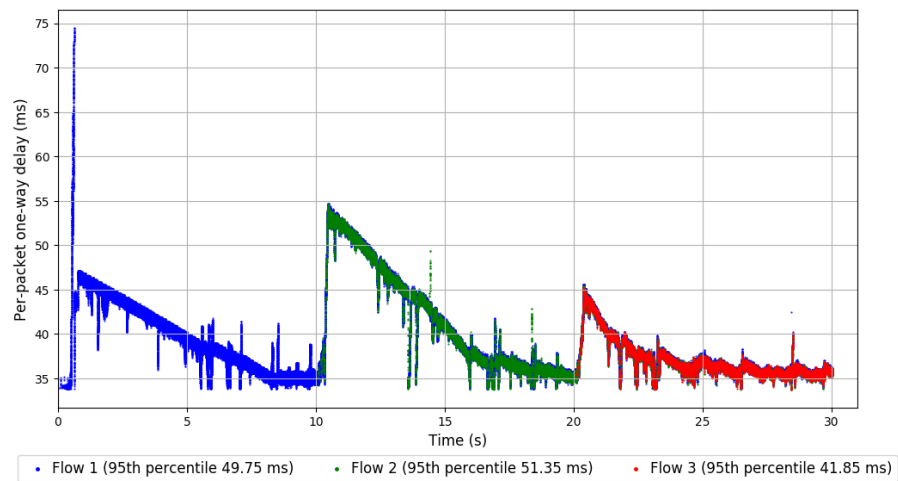
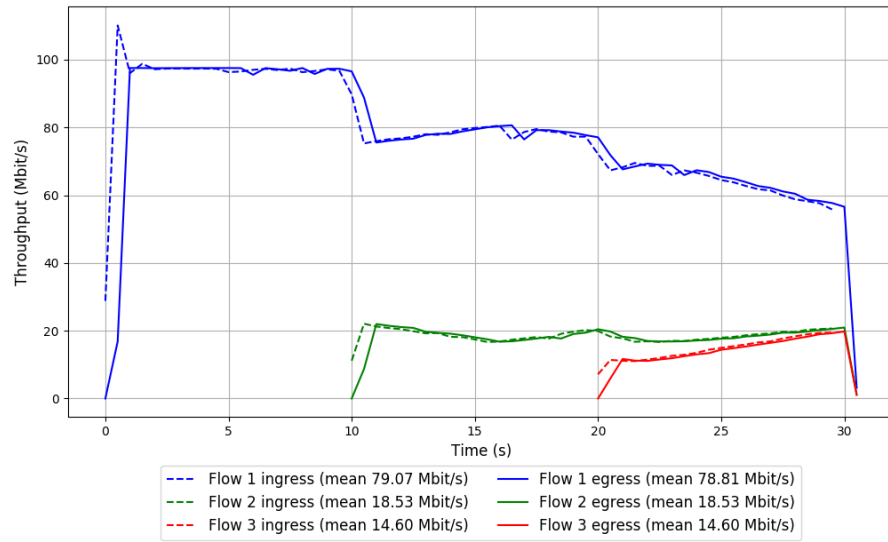
-- Flow 3:

Average throughput: 14.60 Mbit/s

95th percentile per-packet one-way delay: 41.855 ms

Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 09:37:51

End at: 2019-11-24 09:38:21

Local clock offset: 3.099 ms

Remote clock offset: 4.252 ms

# Below is generated by plot.py at 2019-11-24 11:37:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 49.591 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 74.41 Mbit/s

95th percentile per-packet one-way delay: 49.638 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 19.98 Mbit/s

95th percentile per-packet one-way delay: 50.250 ms

Loss rate: 0.00%

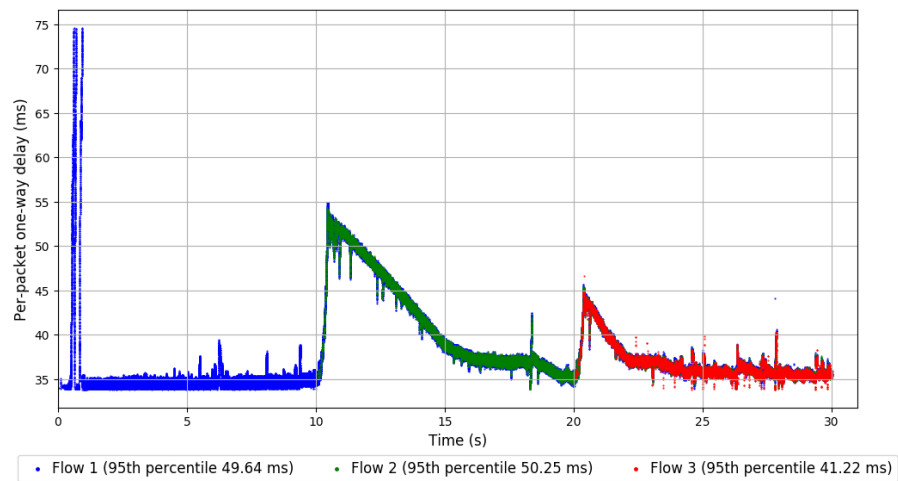
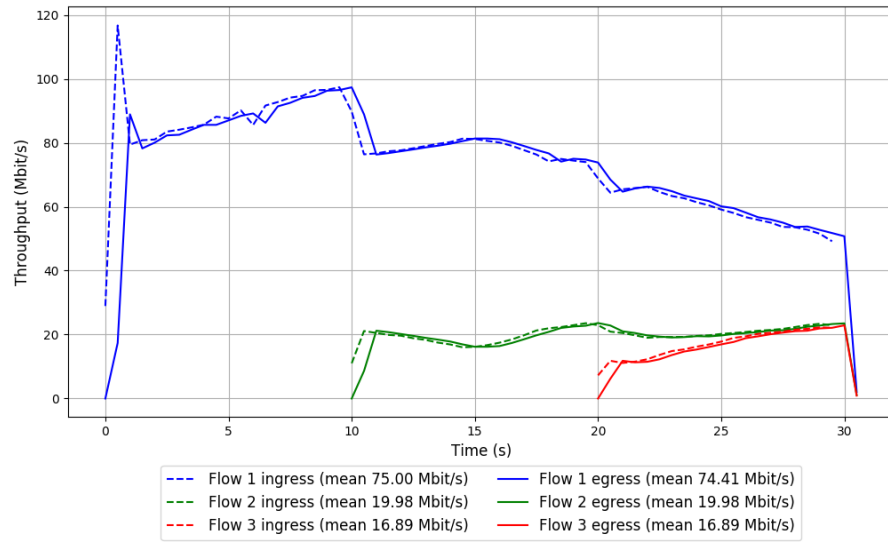
-- Flow 3:

Average throughput: 16.89 Mbit/s

95th percentile per-packet one-way delay: 41.217 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 10:17:29

End at: 2019-11-24 10:17:59

Local clock offset: 2.745 ms

Remote clock offset: 4.14 ms

# Below is generated by plot.py at 2019-11-24 11:38:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 44.379 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 44.775 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 17.05 Mbit/s

95th percentile per-packet one-way delay: 42.401 ms

Loss rate: 0.00%

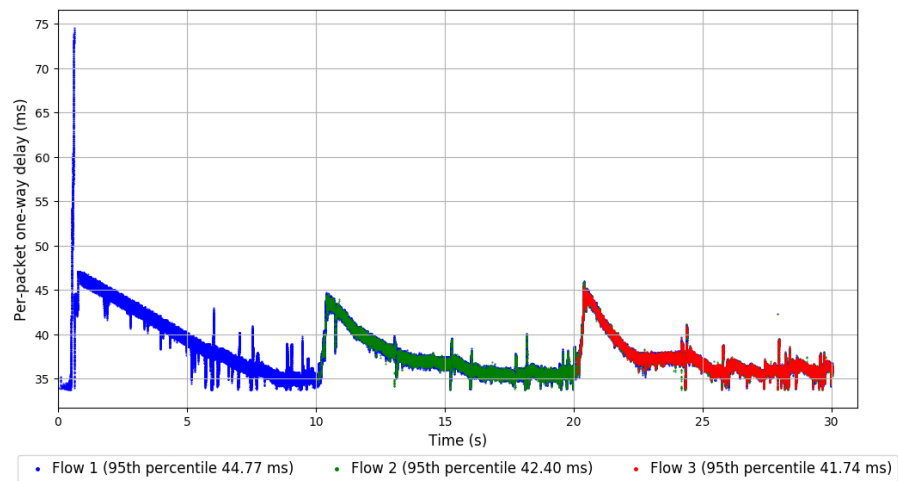
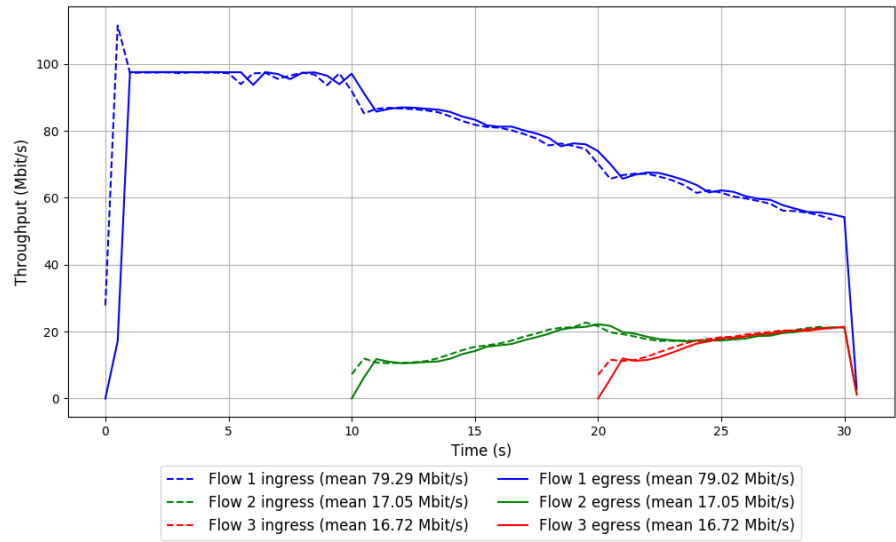
-- Flow 3:

Average throughput: 16.72 Mbit/s

95th percentile per-packet one-way delay: 41.744 ms

Loss rate: 0.00%

# Run 4: Report of TCP Vegas — Data Link





Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 10:59:25

End at: 2019-11-24 10:59:55

Local clock offset: 2.703 ms

Remote clock offset: 4.074 ms

# Below is generated by plot.py at 2019-11-24 11:38:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 50.772 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 50.426 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 51.560 ms

Loss rate: 0.00%

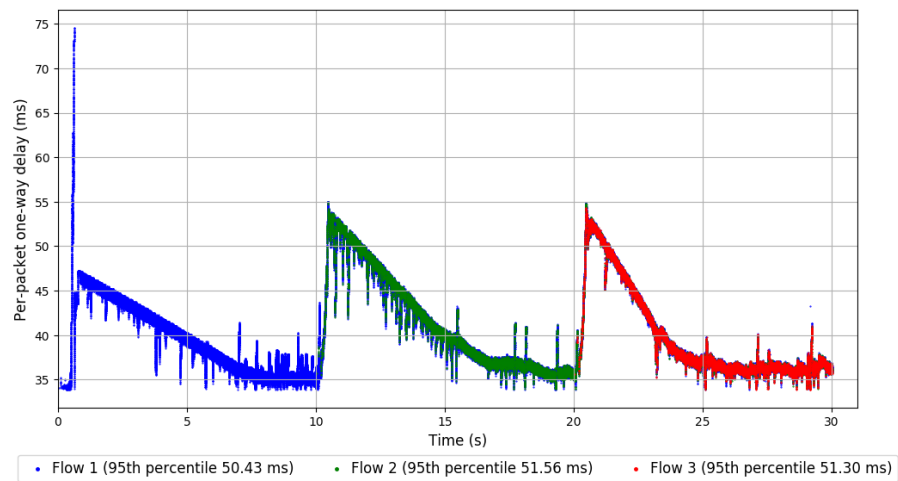
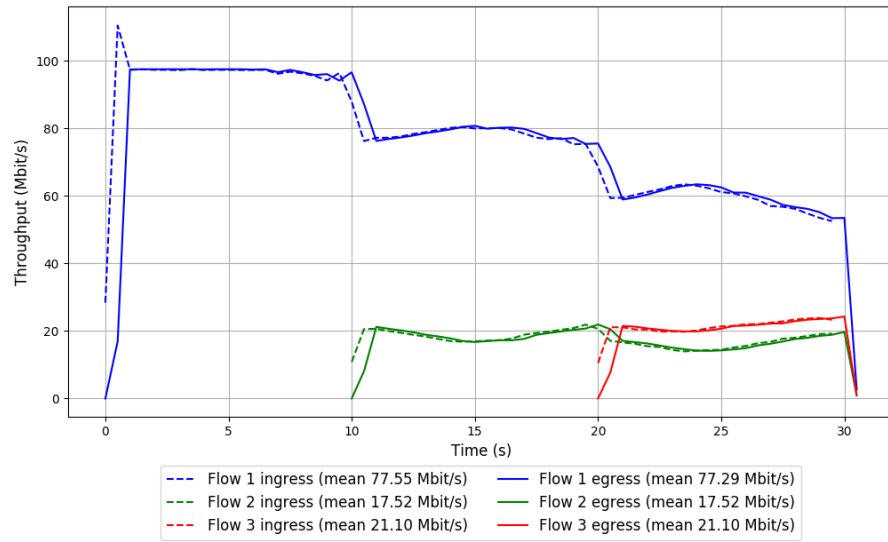
-- Flow 3:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-11-24 08:28:37

End at: 2019-11-24 08:29:07

Local clock offset: 3.243 ms

Remote clock offset: 4.066 ms

# Below is generated by plot.py at 2019-11-24 11:38:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.23 Mbit/s

95th percentile per-packet one-way delay: 70.756 ms

Loss rate: 49.38%

-- Flow 1:

Average throughput: 45.98 Mbit/s

95th percentile per-packet one-way delay: 71.185 ms

Loss rate: 52.28%

-- Flow 2:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 69.438 ms

Loss rate: 38.67%

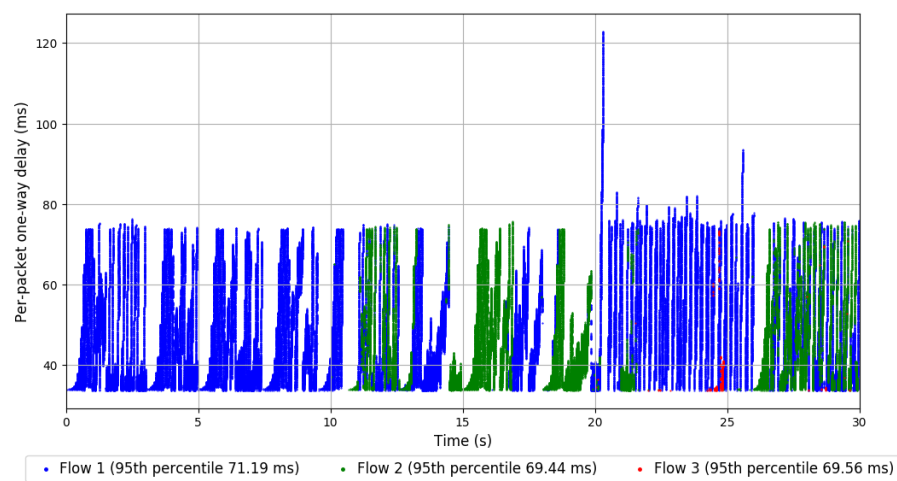
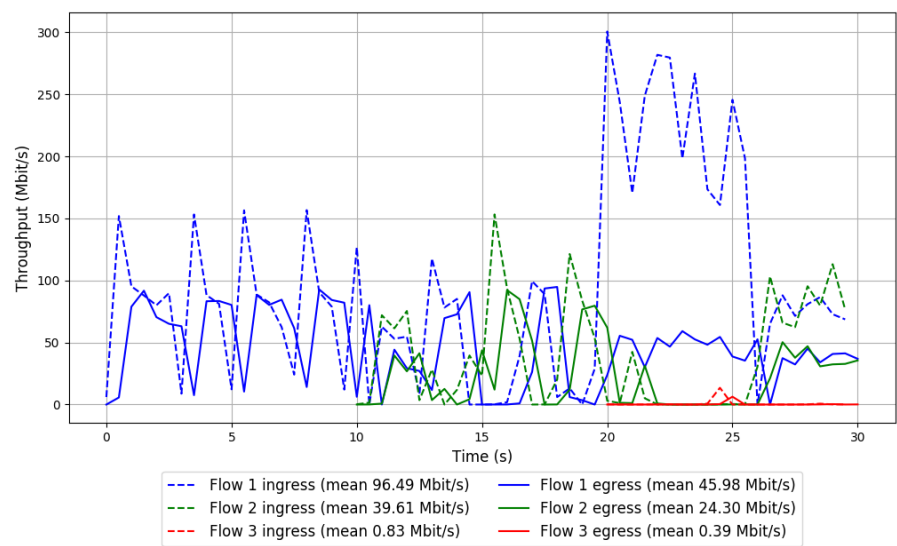
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 69.561 ms

Loss rate: 53.68%

Run 1: Report of Verus — Data Link

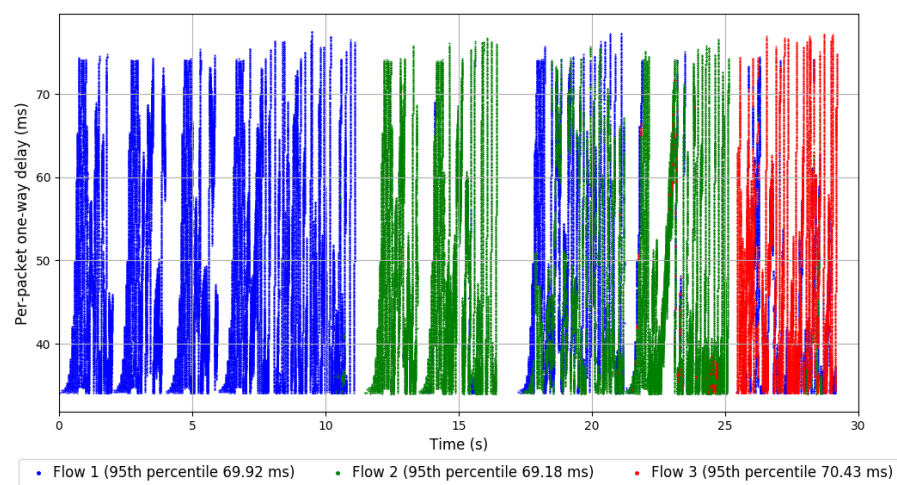
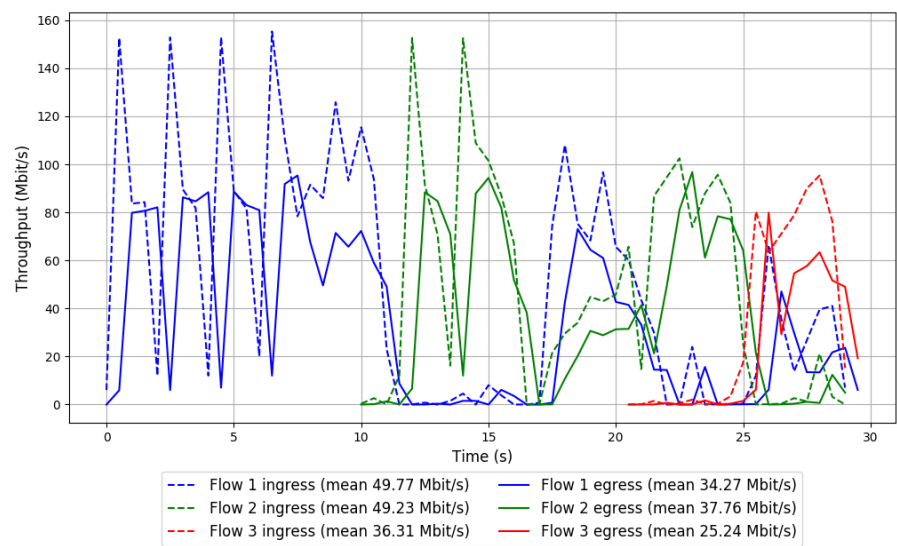


Run 2: Statistics of Verus

Start at: 2019-11-24 09:19:31  
End at: 2019-11-24 09:20:01  
Local clock offset: 3.132 ms  
Remote clock offset: 4.389 ms

# Below is generated by plot.py at 2019-11-24 11:38:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.06 Mbit/s  
95th percentile per-packet one-way delay: 69.724 ms  
Loss rate: 28.94%  
-- Flow 1:  
Average throughput: 34.27 Mbit/s  
95th percentile per-packet one-way delay: 69.920 ms  
Loss rate: 31.22%  
-- Flow 2:  
Average throughput: 37.76 Mbit/s  
95th percentile per-packet one-way delay: 69.179 ms  
Loss rate: 24.90%  
-- Flow 3:  
Average throughput: 25.24 Mbit/s  
95th percentile per-packet one-way delay: 70.432 ms  
Loss rate: 30.35%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-11-24 09:57:57

End at: 2019-11-24 09:58:27

Local clock offset: 2.893 ms

Remote clock offset: 4.261 ms

# Below is generated by plot.py at 2019-11-24 11:38:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 97.245 ms

Loss rate: 63.05%

-- Flow 1:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 119.584 ms

Loss rate: 70.17%

-- Flow 2:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 70.791 ms

Loss rate: 47.17%

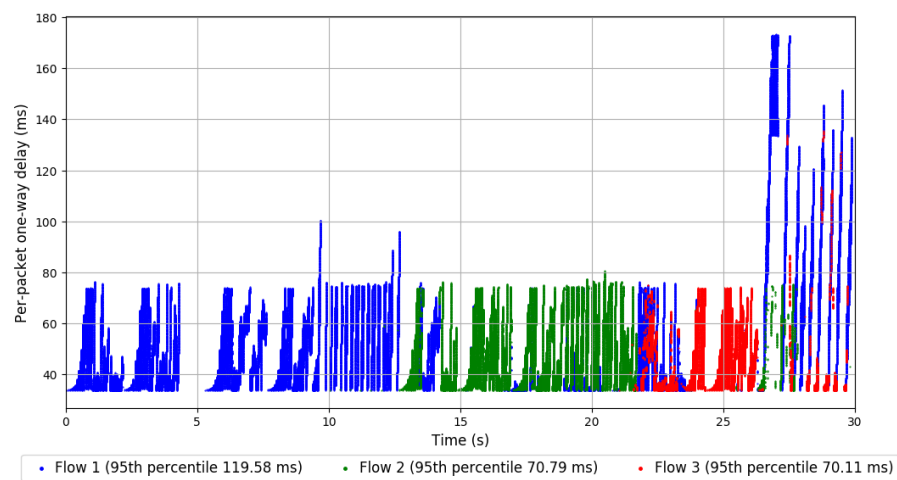
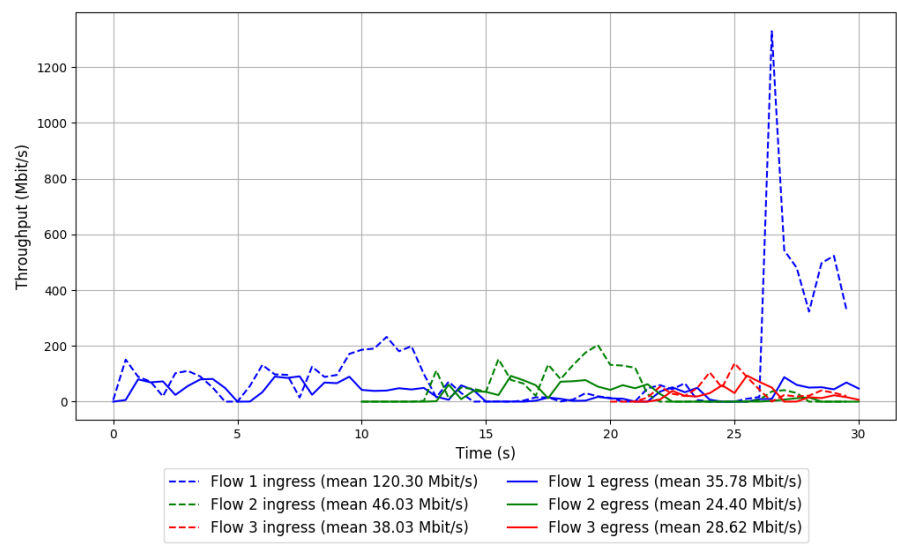
-- Flow 3:

Average throughput: 28.62 Mbit/s

95th percentile per-packet one-way delay: 70.114 ms

Loss rate: 33.69%

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-11-24 10:40:10

End at: 2019-11-24 10:40:40

Local clock offset: 2.574 ms

Remote clock offset: 4.039 ms

# Below is generated by plot.py at 2019-11-24 11:38:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.33 Mbit/s

95th percentile per-packet one-way delay: 69.617 ms

Loss rate: 32.73%

-- Flow 1:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 69.945 ms

Loss rate: 34.67%

-- Flow 2:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 68.921 ms

Loss rate: 29.25%

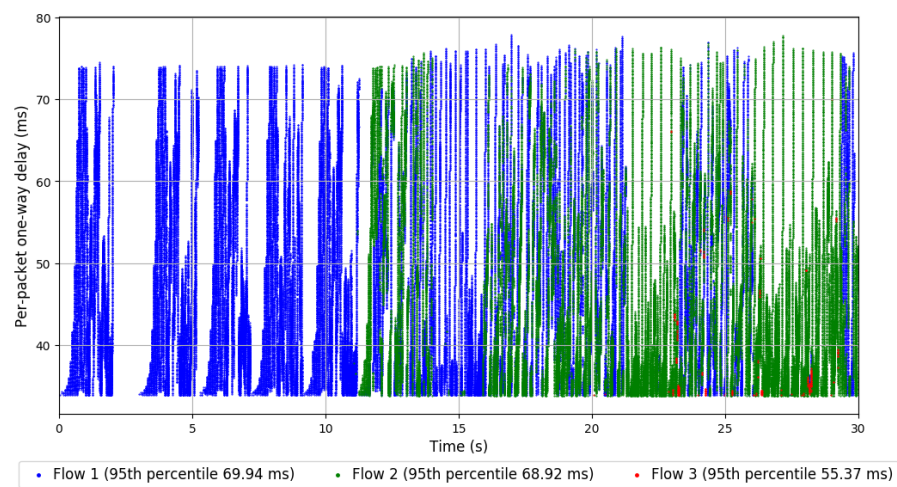
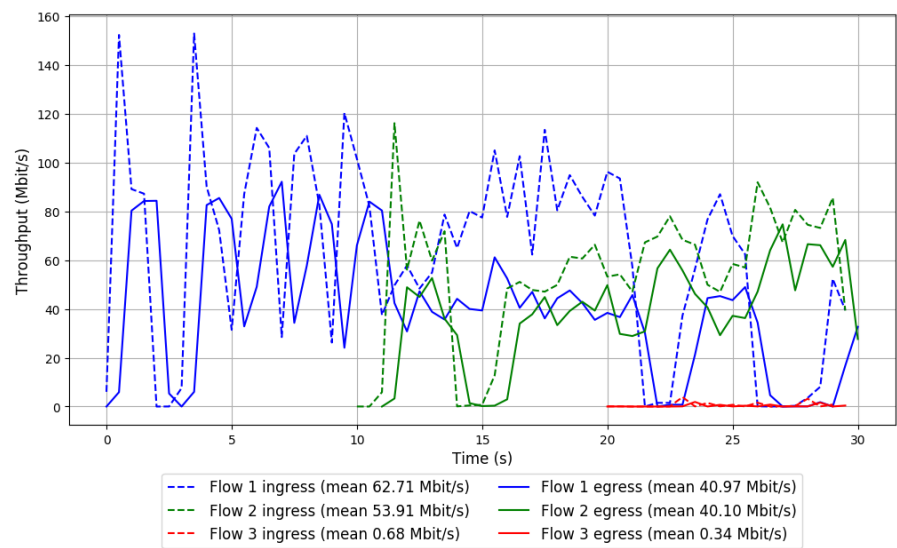
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 55.365 ms

Loss rate: 50.57%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-11-24 11:22:26

End at: 2019-11-24 11:22:56

Local clock offset: 2.797 ms

Remote clock offset: 4.131 ms

# Below is generated by plot.py at 2019-11-24 11:38:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 71.613 ms

Loss rate: 54.03%

-- Flow 1:

Average throughput: 27.66 Mbit/s

95th percentile per-packet one-way delay: 69.018 ms

Loss rate: 23.07%

-- Flow 2:

Average throughput: 45.08 Mbit/s

95th percentile per-packet one-way delay: 73.720 ms

Loss rate: 66.17%

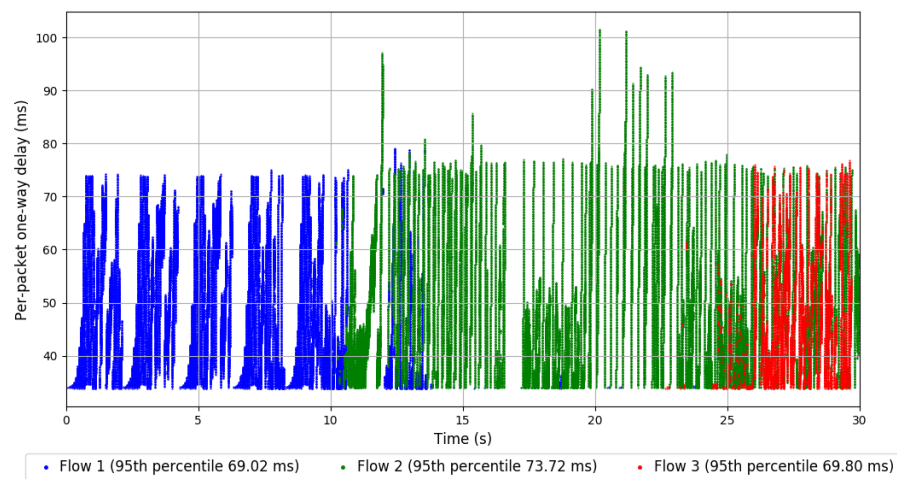
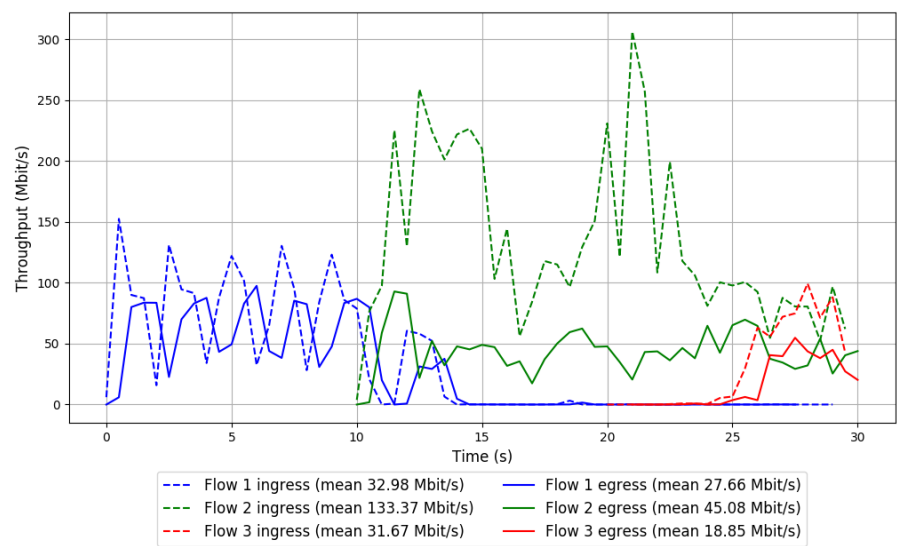
-- Flow 3:

Average throughput: 18.85 Mbit/s

95th percentile per-packet one-way delay: 69.797 ms

Loss rate: 47.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 07:22:25

End at: 2019-11-24 07:22:55

Local clock offset: 3.898 ms

Remote clock offset: 4.27 ms

# Below is generated by plot.py at 2019-11-24 11:38:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.86 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 25.09 Mbit/s

95th percentile per-packet one-way delay: 50.278 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 43.21 Mbit/s

95th percentile per-packet one-way delay: 51.036 ms

Loss rate: 0.97%

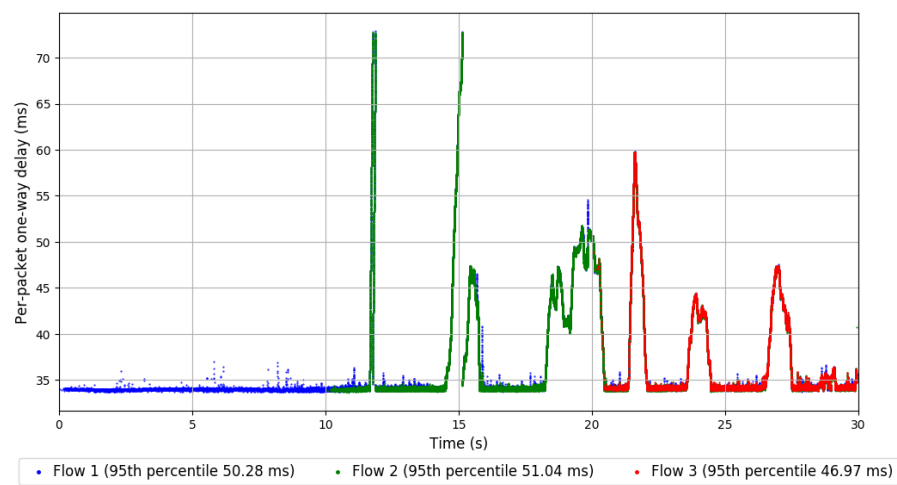
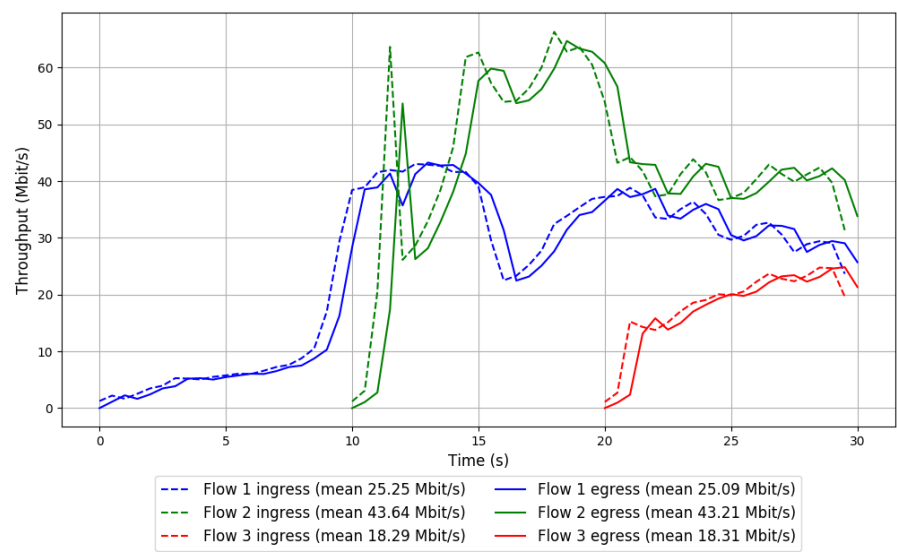
-- Flow 3:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 46.971 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 08:36:21

End at: 2019-11-24 08:36:51

Local clock offset: 3.106 ms

Remote clock offset: 4.229 ms

# Below is generated by plot.py at 2019-11-24 11:38:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.76 Mbit/s

95th percentile per-packet one-way delay: 49.015 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 49.016 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 50.194 ms

Loss rate: 0.30%

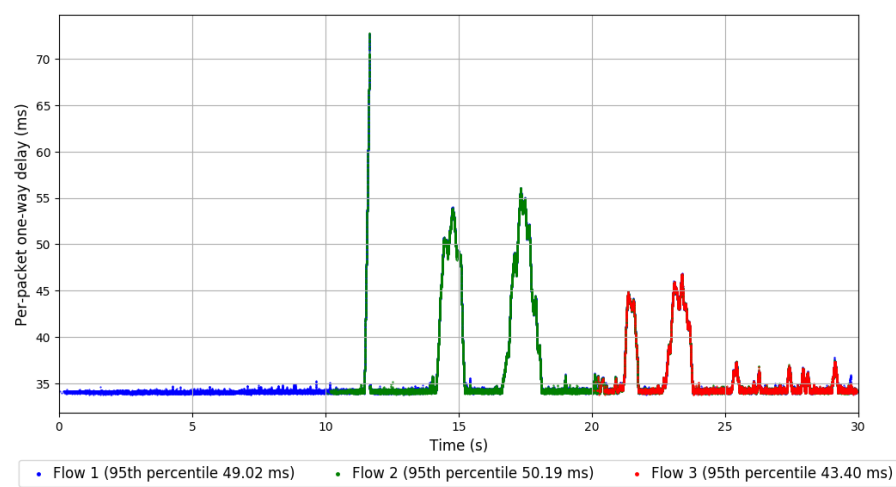
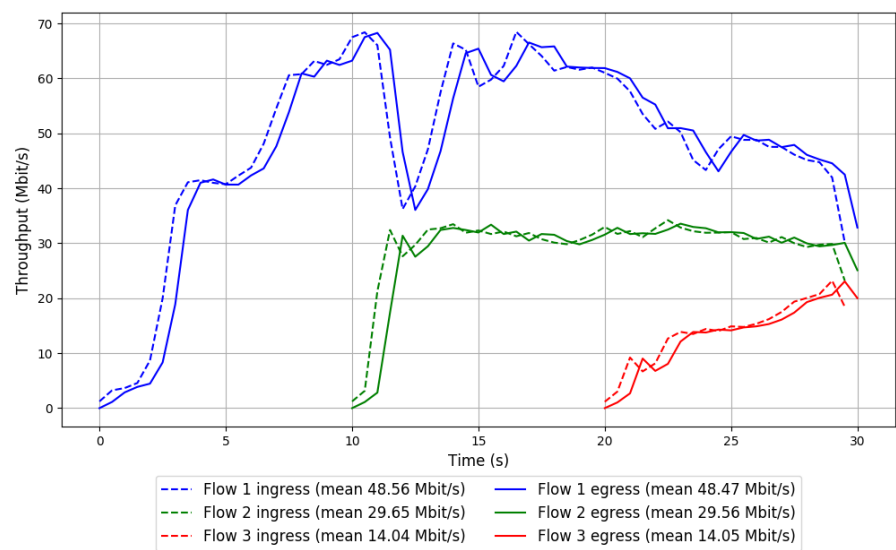
-- Flow 3:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 43.403 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 09:25:20

End at: 2019-11-24 09:25:50

Local clock offset: 3.147 ms

Remote clock offset: 4.342 ms

# Below is generated by plot.py at 2019-11-24 11:38:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 44.685 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 43.761 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.68 Mbit/s

95th percentile per-packet one-way delay: 46.565 ms

Loss rate: 0.00%

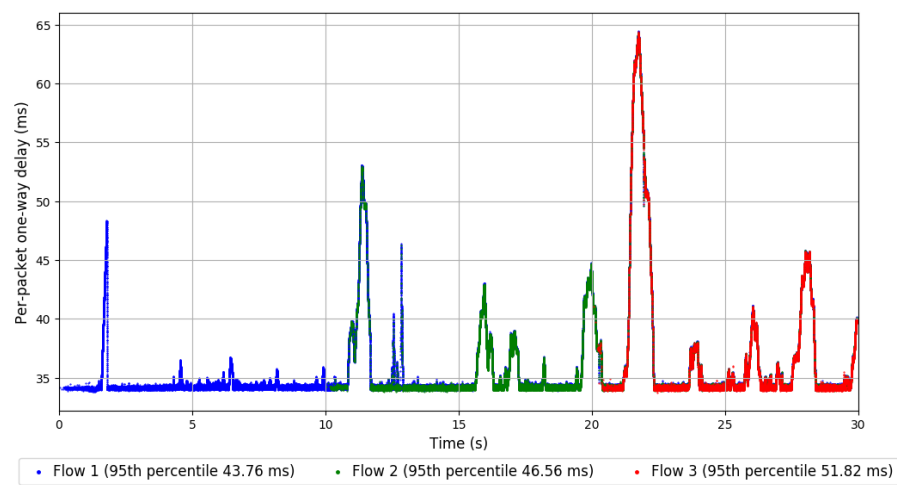
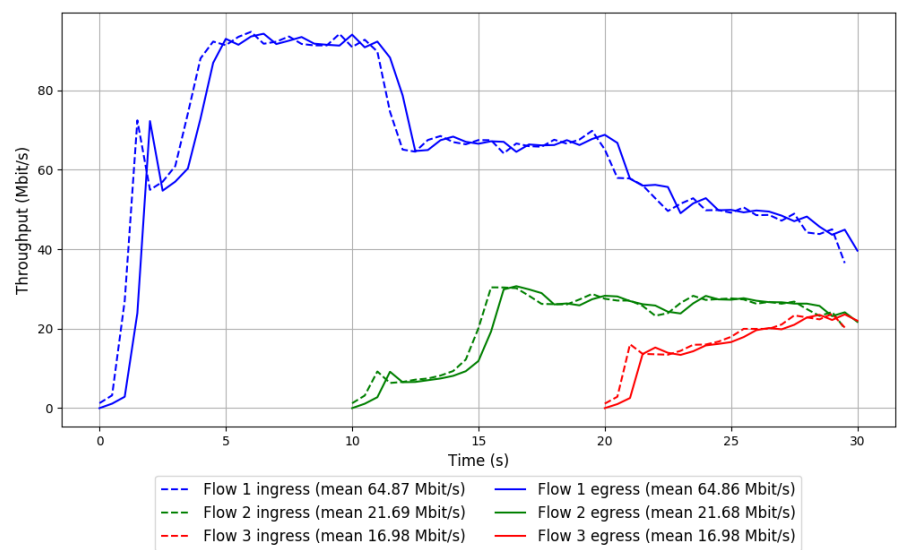
-- Flow 3:

Average throughput: 16.98 Mbit/s

95th percentile per-packet one-way delay: 51.819 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 10:04:29

End at: 2019-11-24 10:04:59

Local clock offset: 2.841 ms

Remote clock offset: 4.195 ms

# Below is generated by plot.py at 2019-11-24 11:38:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 45.095 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.88 Mbit/s

95th percentile per-packet one-way delay: 43.856 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 46.398 ms

Loss rate: 0.00%

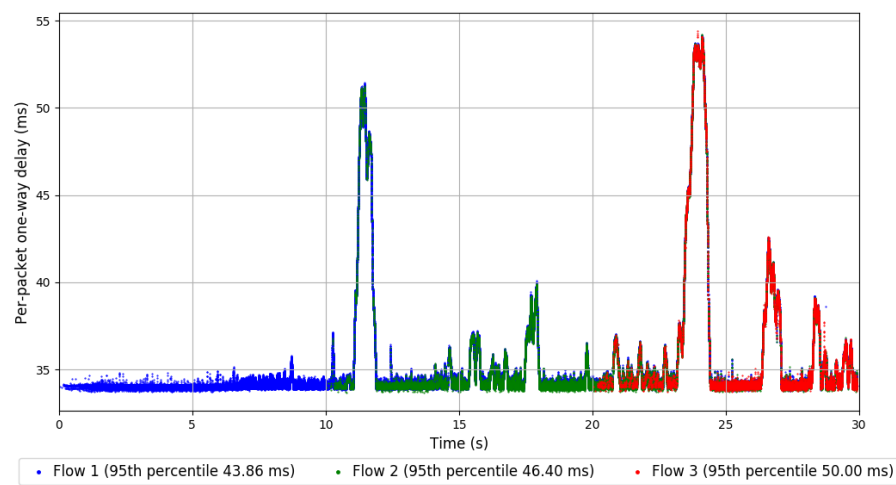
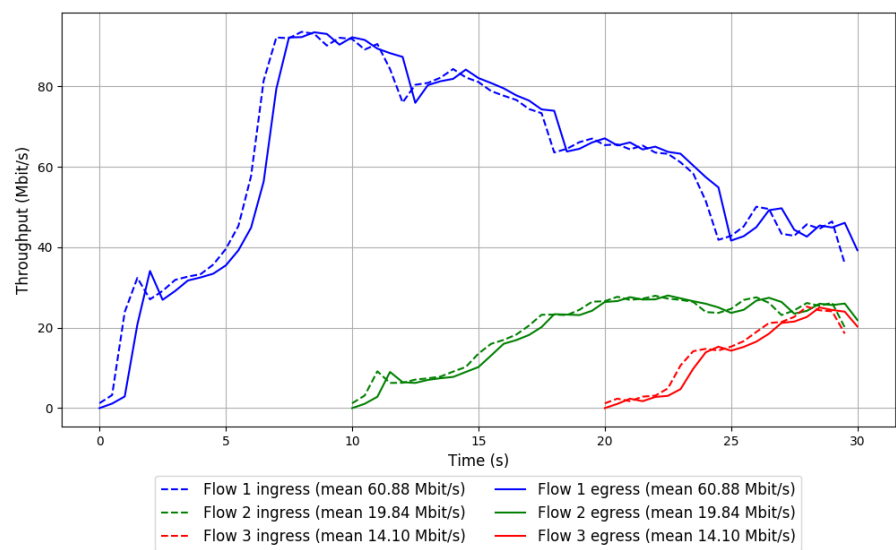
-- Flow 3:

Average throughput: 14.10 Mbit/s

95th percentile per-packet one-way delay: 50.001 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 10:46:25

End at: 2019-11-24 10:46:55

Local clock offset: 2.66 ms

Remote clock offset: 3.964 ms

# Below is generated by plot.py at 2019-11-24 11:38:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 42.615 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 42.412 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 44.808 ms

Loss rate: 0.00%

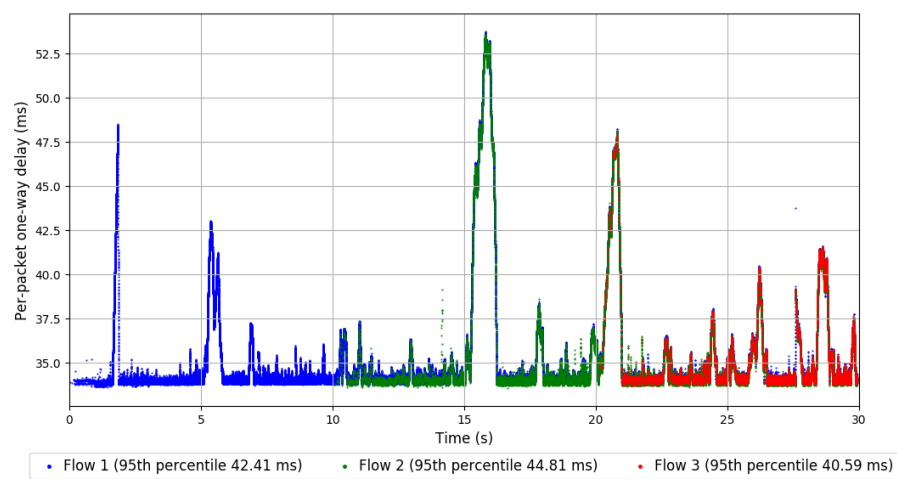
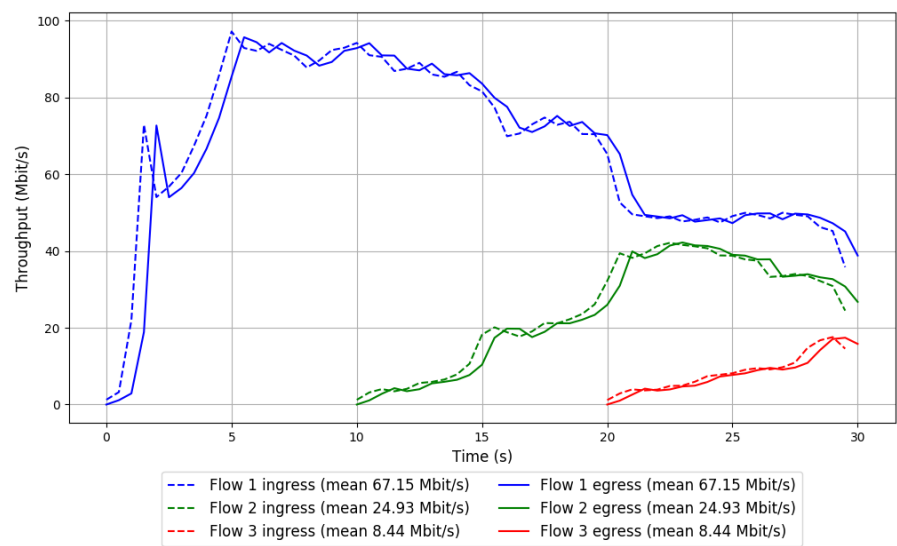
-- Flow 3:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 40.592 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-11-24 07:15:14

End at: 2019-11-24 07:15:44

Local clock offset: 3.448 ms

Remote clock offset: 4.37 ms

# Below is generated by plot.py at 2019-11-24 11:38:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 34.859 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.859 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 34.847 ms

Loss rate: 0.05%

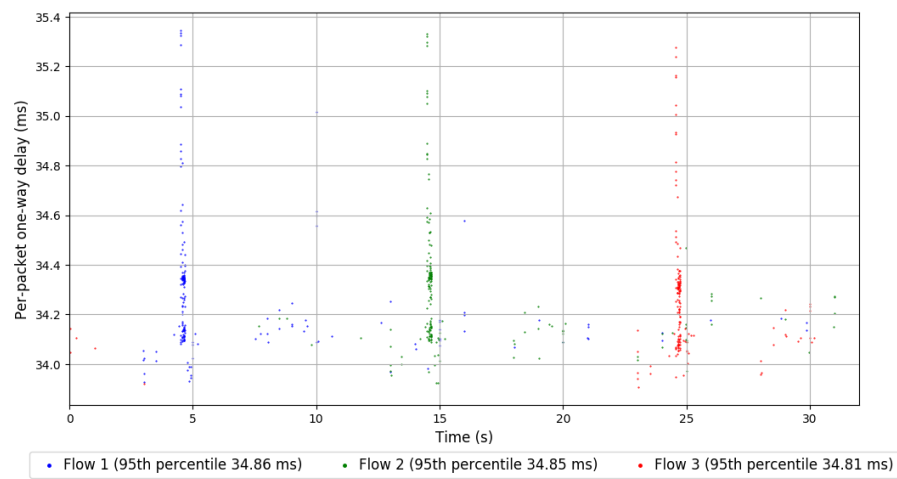
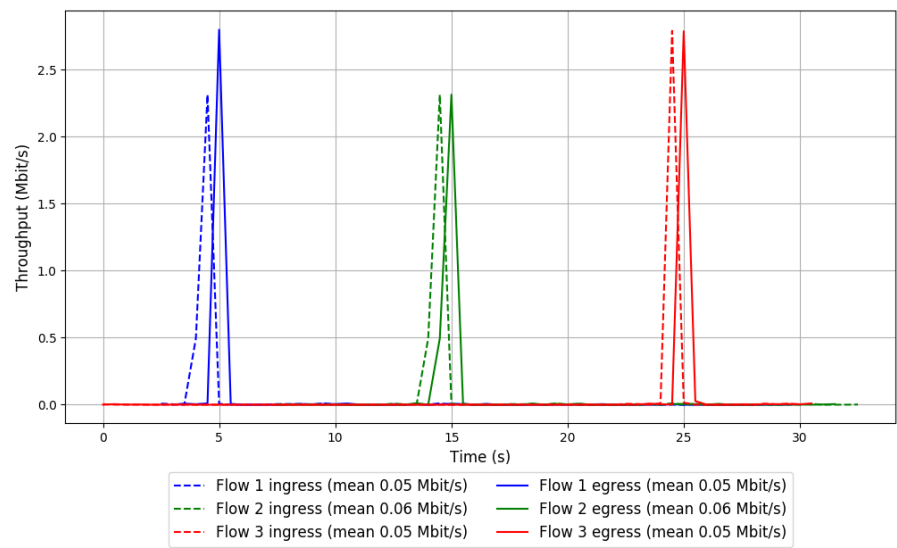
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.813 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-11-24 08:31:06

End at: 2019-11-24 08:31:36

Local clock offset: 3.162 ms

Remote clock offset: 4.012 ms

# Below is generated by plot.py at 2019-11-24 11:38:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 34.692 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 34.566 ms

Loss rate: 0.00%

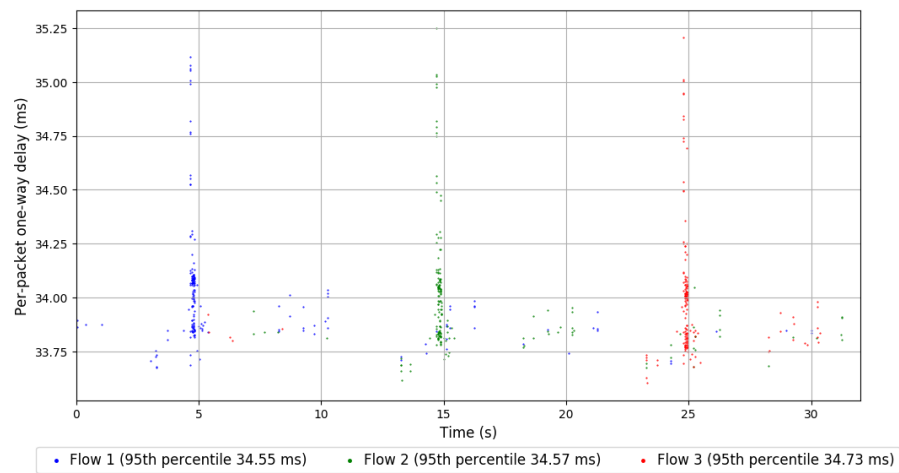
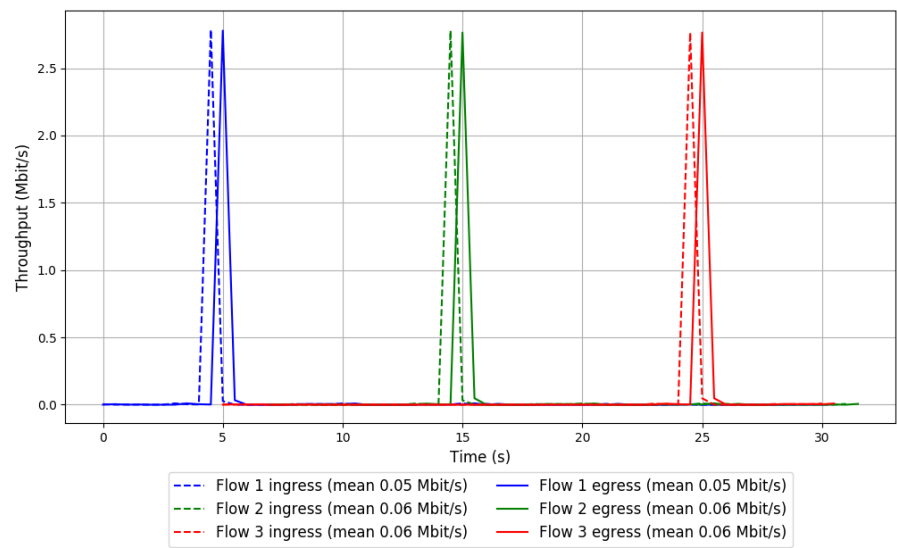
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 34.726 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-24 09:21:16

End at: 2019-11-24 09:21:46

Local clock offset: 3.13 ms

Remote clock offset: 4.313 ms

# Below is generated by plot.py at 2019-11-24 11:38:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 34.780 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.780 ms

Loss rate: 0.00%

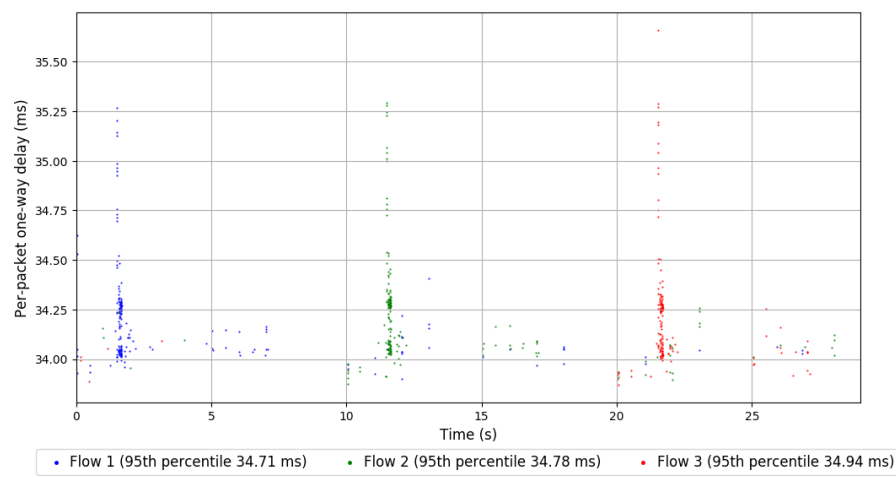
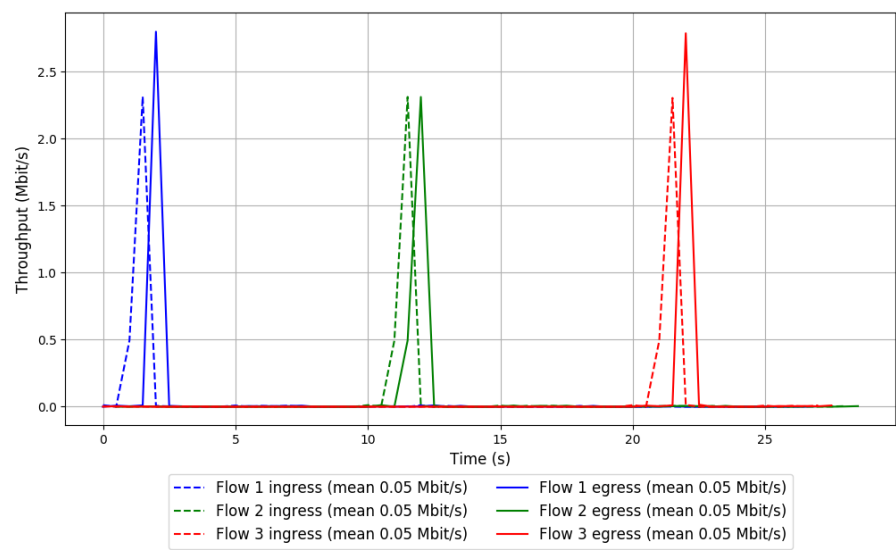
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.936 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-11-24 09:59:47

End at: 2019-11-24 10:00:17

Local clock offset: 2.886 ms

Remote clock offset: 4.172 ms

# Below is generated by plot.py at 2019-11-24 11:38:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 34.572 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.566 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.562 ms

Loss rate: 0.00%

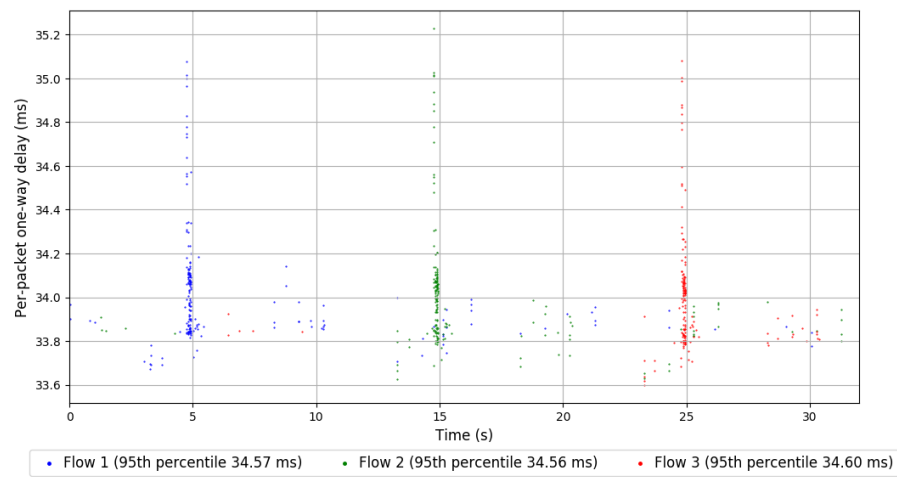
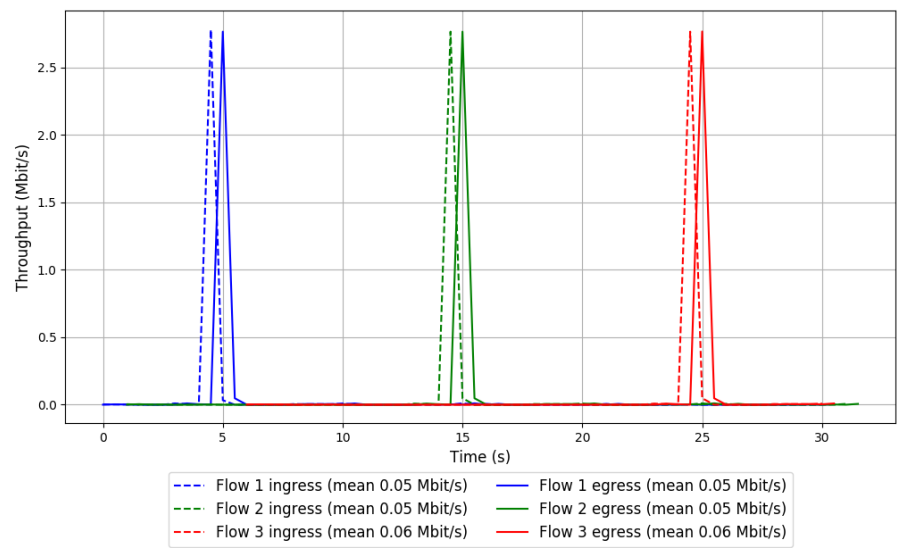
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 34.597 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 10:42:05

End at: 2019-11-24 10:42:35

Local clock offset: 2.623 ms

Remote clock offset: 4.137 ms

# Below is generated by plot.py at 2019-11-24 11:38:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 34.790 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.780 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.599 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 34.921 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

