

## Pantheon Report

Generated at 2019-11-25 06:31:39 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

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

NTP offsets were measured against **time.stanford.edu** and have been applied to correct the timestamps in logs.

### System info:

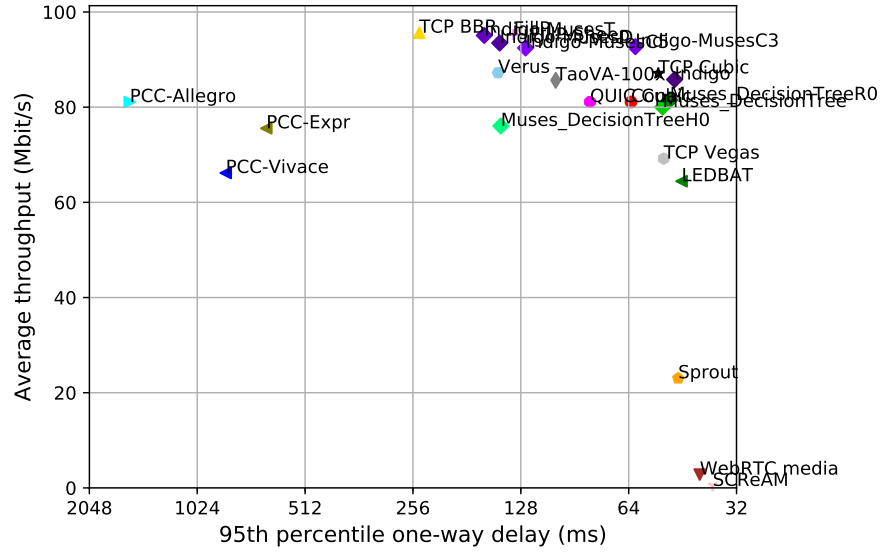
```
Linux 4.15.0-1051-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

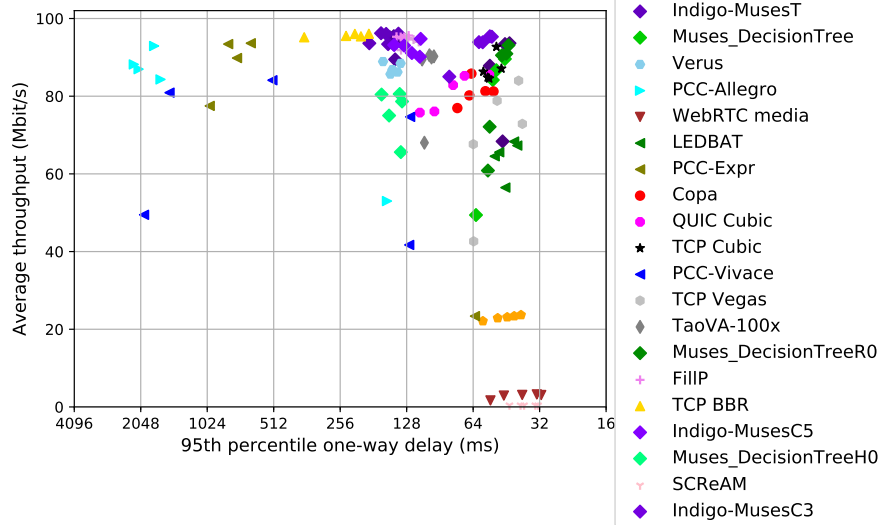
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 Mexico to AWS California 2, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico to AWS California 2, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	58.68	40.93	29.39	178.43	227.02	337.16	3.92	4.63	5.22
Copa	5	53.68	28.69	25.12	79.13	50.72	46.11	0.16	0.44	0.69
TCP Cubic	5	49.02	36.91	40.82	53.86	52.04	52.70	0.12	0.31	0.73
FillP	5	57.85	41.43	29.78	127.08	138.53	131.82	1.34	2.41	3.23
FillP-Sheep	5	56.28	39.02	35.50	122.71	118.72	110.20	0.60	2.54	4.12
Indigo	4	47.65	44.87	25.52	51.91	42.90	47.96	0.19	0.31	0.66
Indigo-MusesC3	5	58.33	39.89	29.68	60.94	62.25	60.26	0.32	0.54	1.14
Indigo-MusesC5	5	58.46	38.87	30.53	124.29	117.01	115.01	1.92	4.03	4.81
Indigo-MusesD	5	56.75	41.39	34.20	139.23	102.52	79.11	4.87	3.44	2.40
Indigo-MusesT	5	61.03	40.60	26.88	123.21	156.98	266.31	1.49	5.35	9.01
LEDBAT	5	38.60	28.92	20.04	43.87	47.46	47.65	0.20	0.35	0.73
Muses_DecisionTree	5	48.40	37.28	21.42	48.10	51.94	72.42	0.19	0.46	0.90
Muses_DecisionTreeH0	5	47.49	31.74	23.24	152.80	145.24	96.93	0.31	0.42	0.83
Muses_DecisionTreeR0	5	44.98	40.85	29.21	51.18	47.74	59.76	0.13	0.31	0.84
PCC-Allegro	5	49.54	36.85	21.48	1575.64	248.46	146.61	7.81	2.18	0.85
PCC-Expr	5	48.80	28.31	24.13	612.89	571.32	187.63	30.15	16.14	3.00
QUIC Cubic	5	48.24	35.09	28.94	72.07	97.33	126.05	0.19	0.41	1.05
SCReAM	5	0.21	0.21	0.22	38.99	34.16	38.36	0.23	0.40	0.71
Sprout	5	11.54	11.67	11.38	48.55	43.21	45.54	0.21	0.44	0.58
TaoVA-100x	5	50.17	25.76	60.26	92.51	122.55	99.30	0.10	0.15	0.91
TCP Vegas	5	43.81	27.13	22.08	53.10	51.63	41.37	0.19	0.32	0.72
Verus	5	52.24	39.67	25.98	149.30	111.81	219.41	0.48	0.53	1.34
PCC-Vivace	5	45.10	20.67	22.32	899.57	92.49	143.01	3.37	0.62	2.42
WebRTC media	5	1.43	1.00	0.38	41.31	37.58	43.51	0.16	0.21	0.67



Run 1: Statistics of TCP BBR

Start at: 2019-11-24 16:30:51

End at: 2019-11-24 16:31:21

Local clock offset: 3.473 ms

Remote clock offset: 4.237 ms

# Below is generated by plot.py at 2019-11-25 06:17:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 219.690 ms

Loss rate: 4.63%

-- Flow 1:

Average throughput: 55.95 Mbit/s

95th percentile per-packet one-way delay: 191.666 ms

Loss rate: 4.53%

-- Flow 2:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 242.585 ms

Loss rate: 4.52%

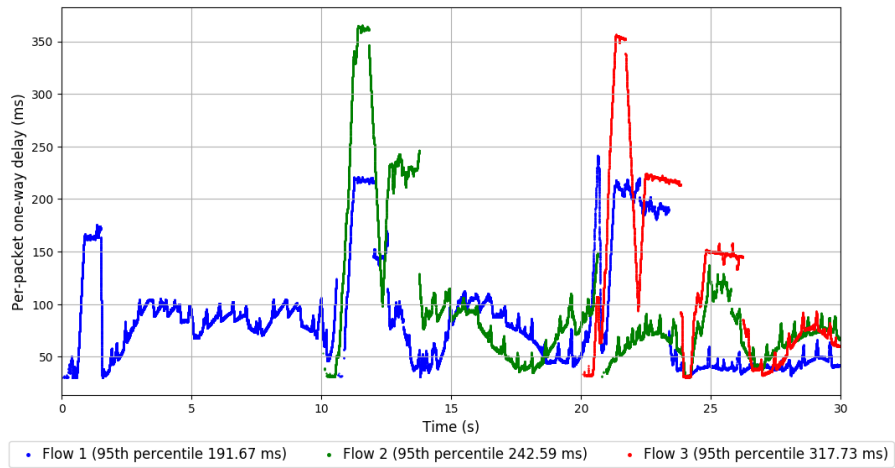
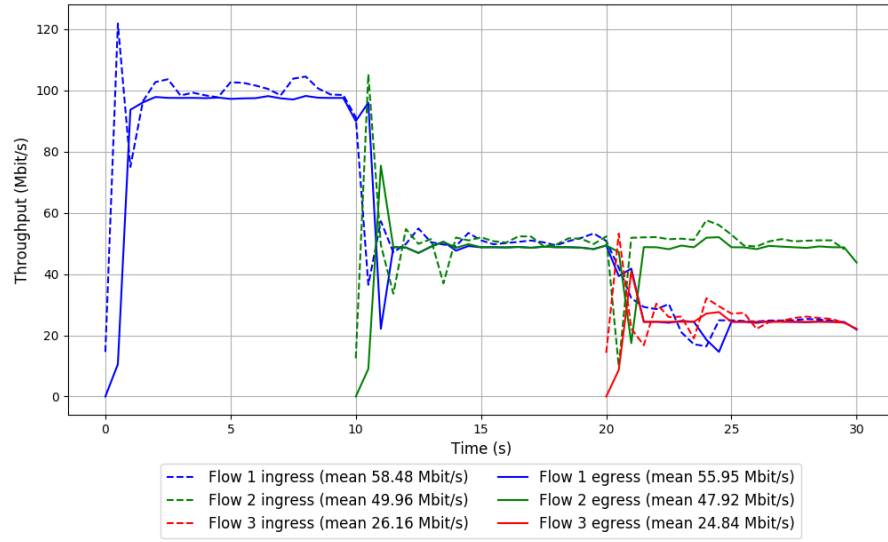
-- Flow 3:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 317.731 ms

Loss rate: 5.69%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-11-24 18:02:26

End at: 2019-11-24 18:02:56

Local clock offset: 4.622 ms

Remote clock offset: 4.371 ms

# Below is generated by plot.py at 2019-11-25 06:17:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 240.796 ms

Loss rate: 4.04%

-- Flow 1:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 165.986 ms

Loss rate: 4.08%

-- Flow 2:

Average throughput: 36.74 Mbit/s

95th percentile per-packet one-way delay: 353.902 ms

Loss rate: 3.73%

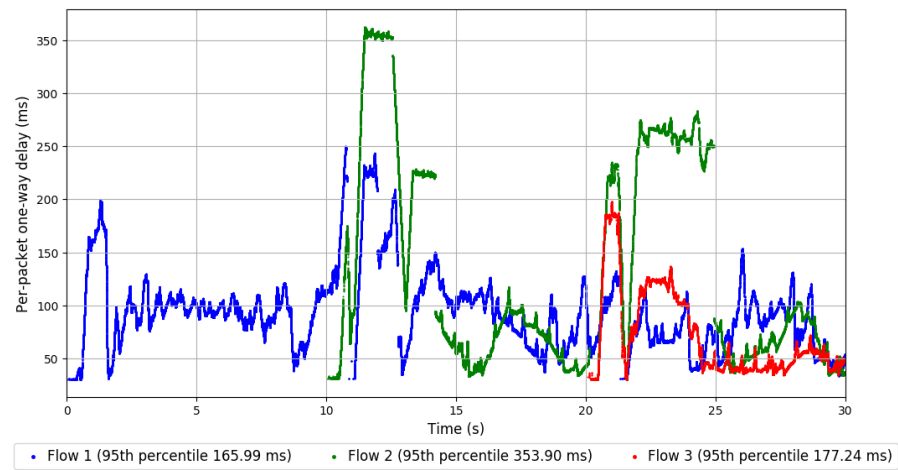
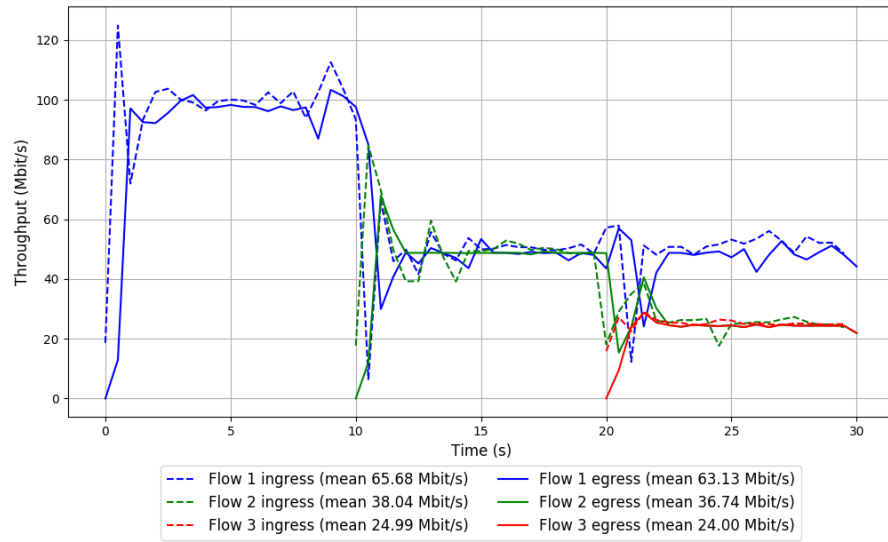
-- Flow 3:

Average throughput: 24.00 Mbit/s

95th percentile per-packet one-way delay: 177.235 ms

Loss rate: 4.62%

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



Run 3: Statistics of TCP BBR

Start at: 2019-11-25 00:09:59

End at: 2019-11-25 00:10:29

Local clock offset: 3.618 ms

Remote clock offset: 5.271 ms

# Below is generated by plot.py at 2019-11-25 06:17:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 372.517 ms

Loss rate: 4.32%

-- Flow 1:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 184.161 ms

Loss rate: 3.59%

-- Flow 2:

Average throughput: 47.21 Mbit/s

95th percentile per-packet one-way delay: 114.311 ms

Loss rate: 4.61%

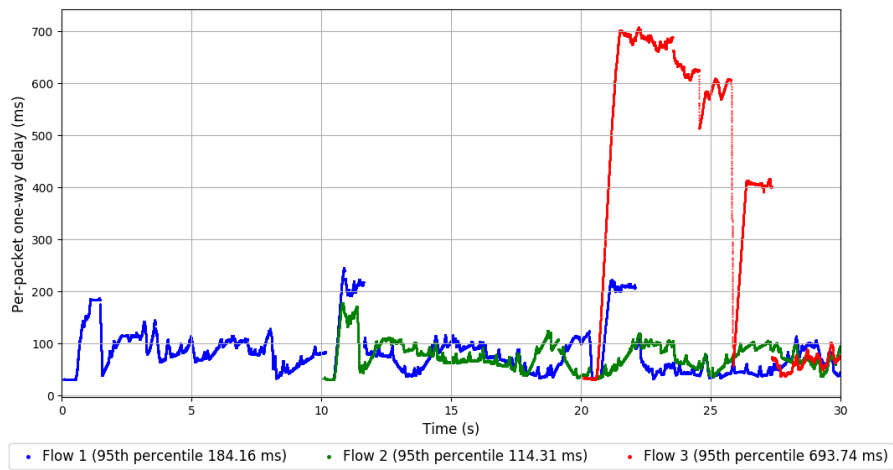
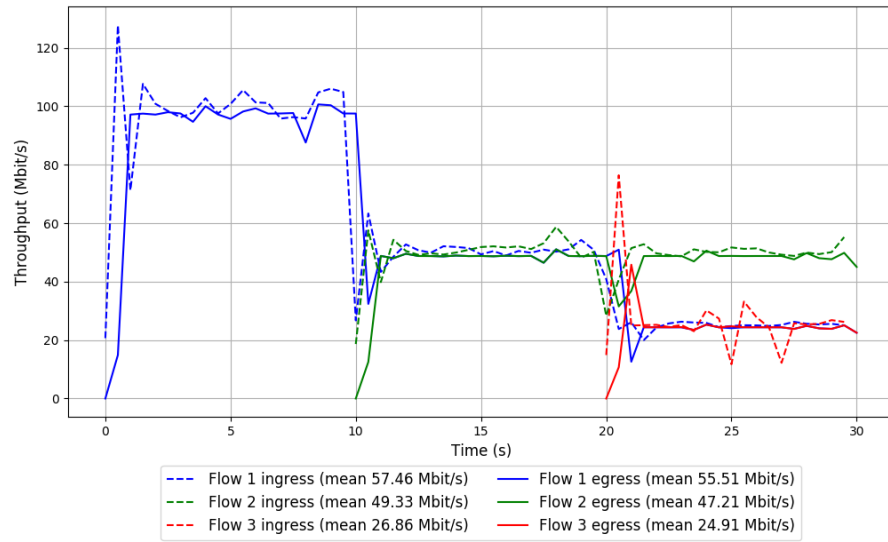
-- Flow 3:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 693.742 ms

Loss rate: 7.87%

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



Run 4: Statistics of TCP BBR

Start at: 2019-11-25 02:25:41

End at: 2019-11-25 02:26:11

Local clock offset: 3.977 ms

Remote clock offset: 3.11 ms

# Below is generated by plot.py at 2019-11-25 06:17:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 206.192 ms

Loss rate: 3.67%

-- Flow 1:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 191.452 ms

Loss rate: 3.32%

-- Flow 2:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 194.860 ms

Loss rate: 4.23%

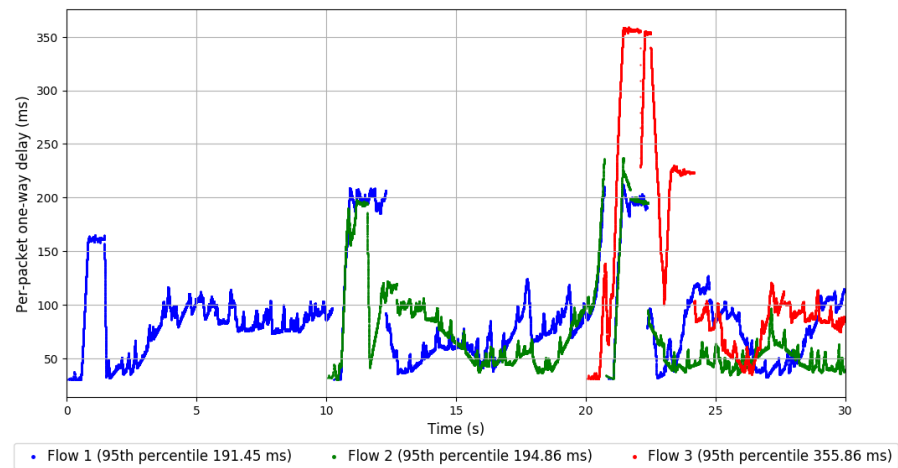
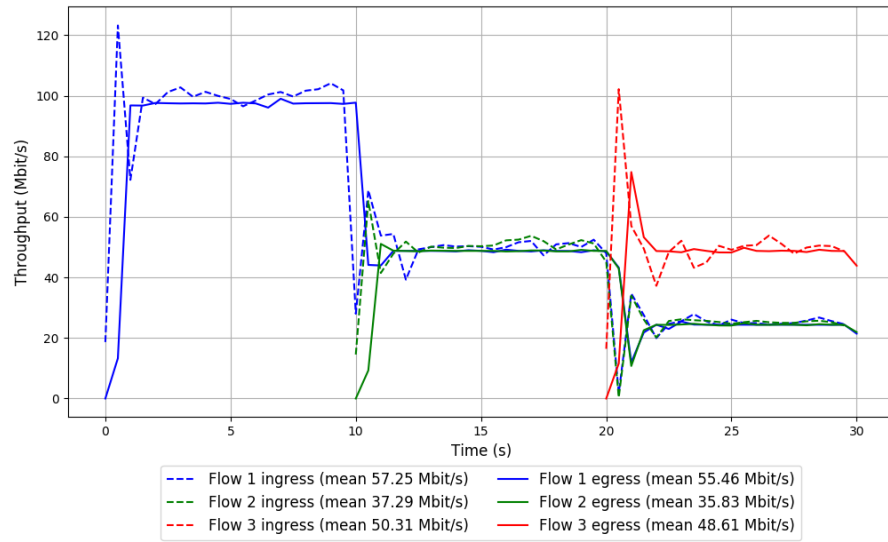
-- Flow 3:

Average throughput: 48.61 Mbit/s

95th percentile per-packet one-way delay: 355.859 ms

Loss rate: 4.01%

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





Run 5: Statistics of TCP BBR

Start at: 2019-11-25 05:34:55

End at: 2019-11-25 05:35:25

Local clock offset: 2.988 ms

Remote clock offset: 4.027 ms

# Below is generated by plot.py at 2019-11-25 06:17:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 189.882 ms

Loss rate: 4.58%

-- Flow 1:

Average throughput: 63.35 Mbit/s

95th percentile per-packet one-way delay: 158.871 ms

Loss rate: 4.07%

-- Flow 2:

Average throughput: 36.93 Mbit/s

95th percentile per-packet one-way delay: 229.458 ms

Loss rate: 6.07%

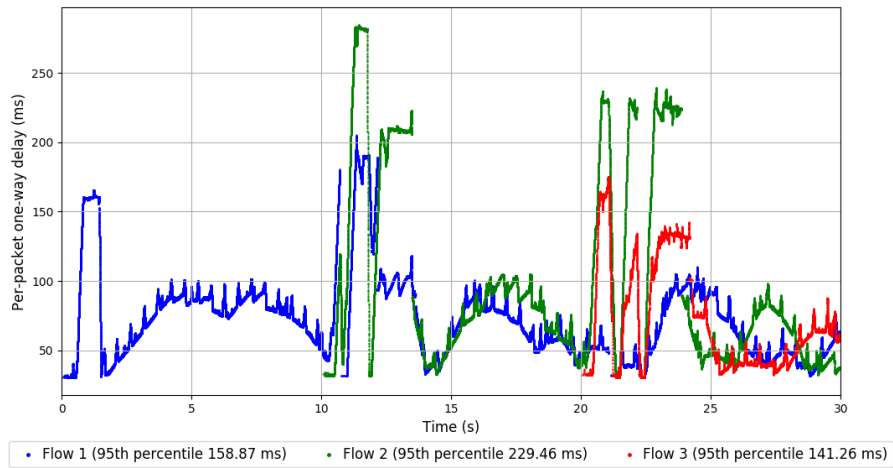
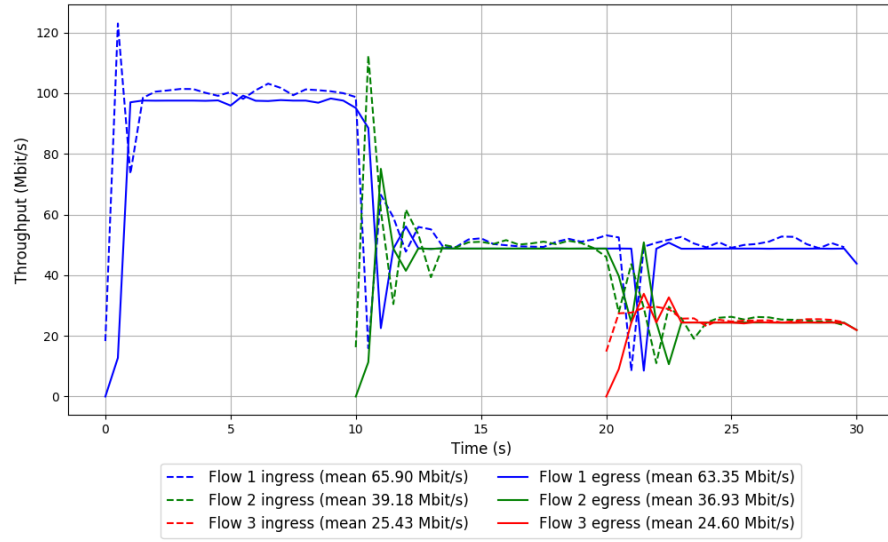
-- Flow 3:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 141.256 ms

Loss rate: 3.92%

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



Run 1: Statistics of Copa

Start at: 2019-11-24 16:54:36

End at: 2019-11-24 16:55:06

Local clock offset: 3.444 ms

Remote clock offset: 4.168 ms

# Below is generated by plot.py at 2019-11-25 06:18:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.22 Mbit/s

95th percentile per-packet one-way delay: 51.753 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 55.940 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 44.394 ms

Loss rate: 0.36%

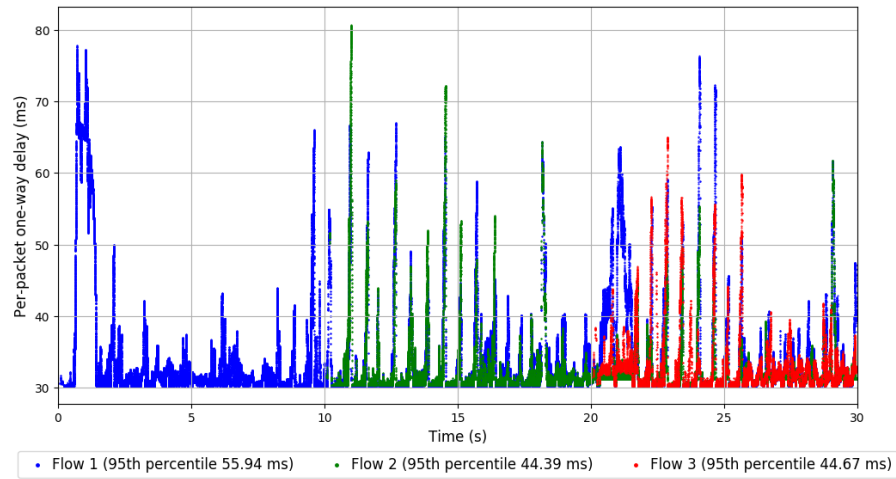
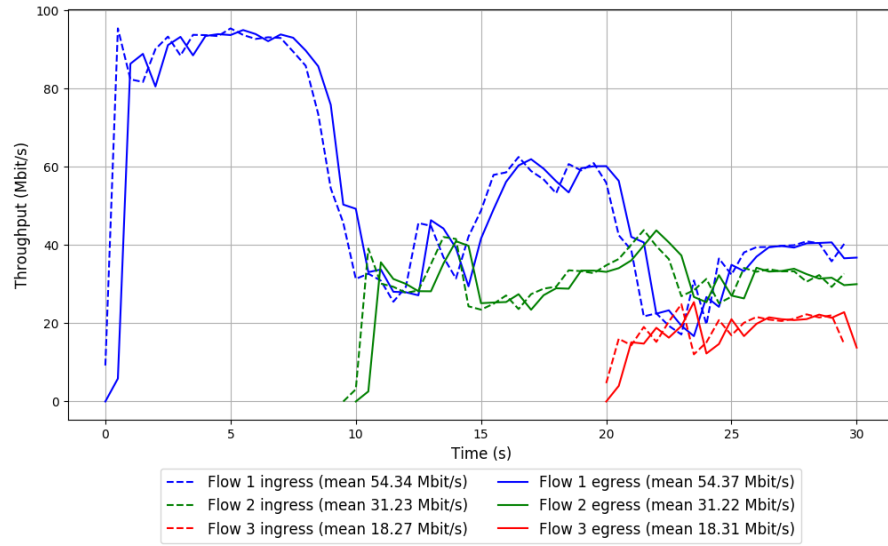
-- Flow 3:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 44.670 ms

Loss rate: 0.42%

# Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-11-24 19:15:26

End at: 2019-11-24 19:15:56

Local clock offset: 3.374 ms

Remote clock offset: 3.015 ms

# Below is generated by plot.py at 2019-11-25 06:18:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.20 Mbit/s

95th percentile per-packet one-way delay: 66.580 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 61.98 Mbit/s

95th percentile per-packet one-way delay: 84.376 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 62.343 ms

Loss rate: 0.94%

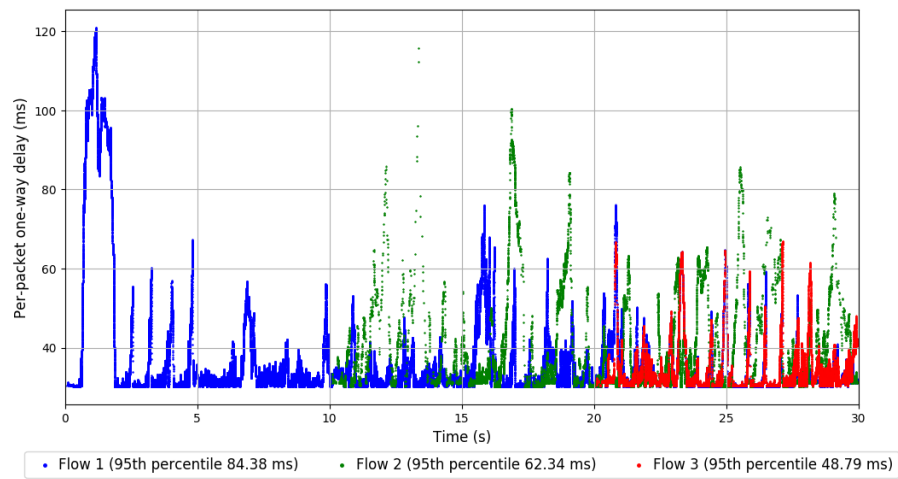
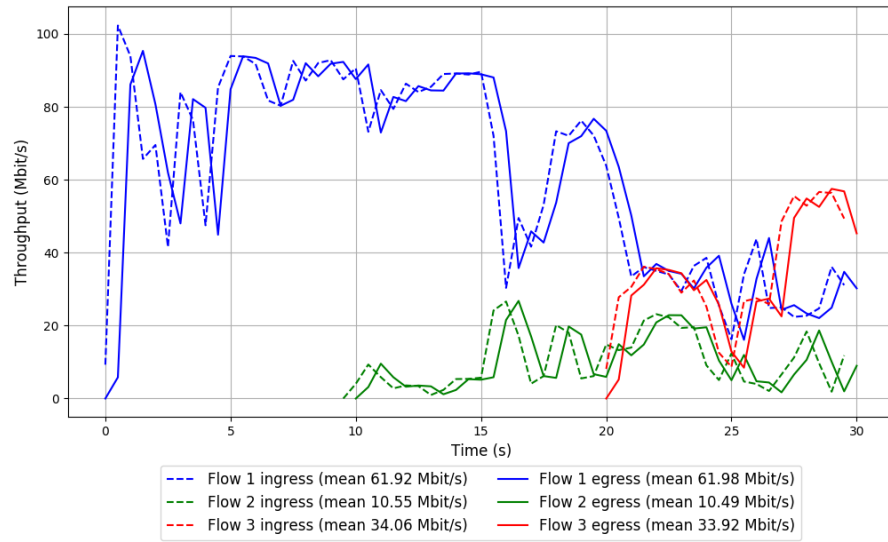
-- Flow 3:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 48.790 ms

Loss rate: 1.05%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-11-25 00:32:15

End at: 2019-11-25 00:32:45

Local clock offset: 2.47 ms

Remote clock offset: 4.949 ms

# Below is generated by plot.py at 2019-11-25 06:18:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 75.460 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 43.85 Mbit/s

95th percentile per-packet one-way delay: 103.698 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 42.97 Mbit/s

95th percentile per-packet one-way delay: 46.359 ms

Loss rate: 0.35%

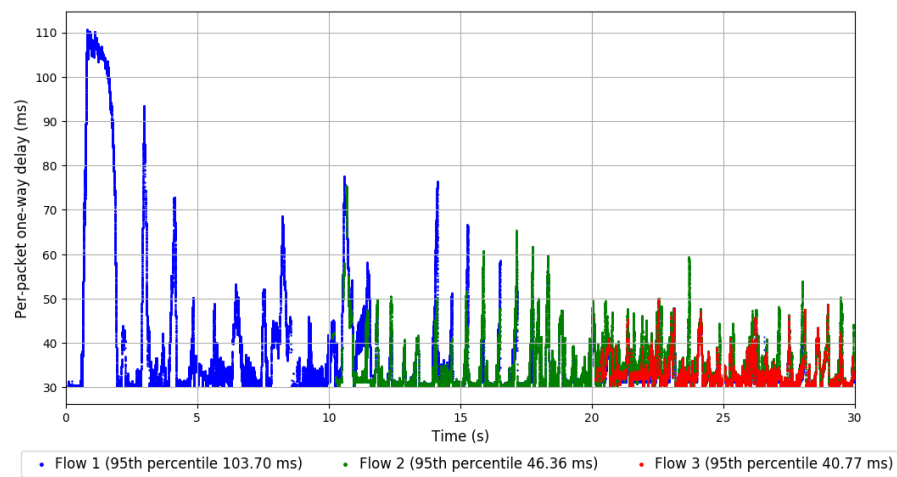
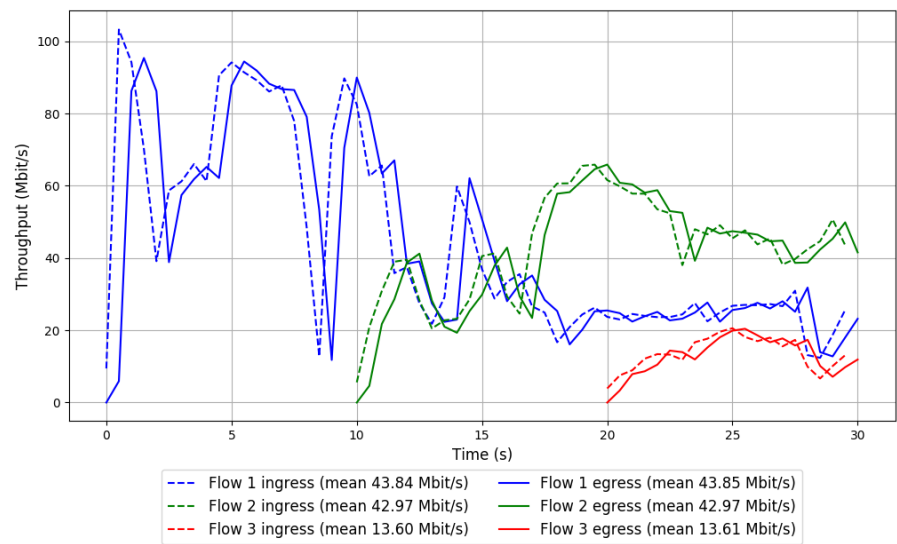
-- Flow 3:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 40.771 ms

Loss rate: 0.72%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-11-25 03:37:35

End at: 2019-11-25 03:38:05

Local clock offset: 3.801 ms

Remote clock offset: 5.213 ms

# Below is generated by plot.py at 2019-11-25 06:19:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 56.319 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 57.991 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 18.93 Mbit/s

95th percentile per-packet one-way delay: 50.756 ms

Loss rate: 0.23%

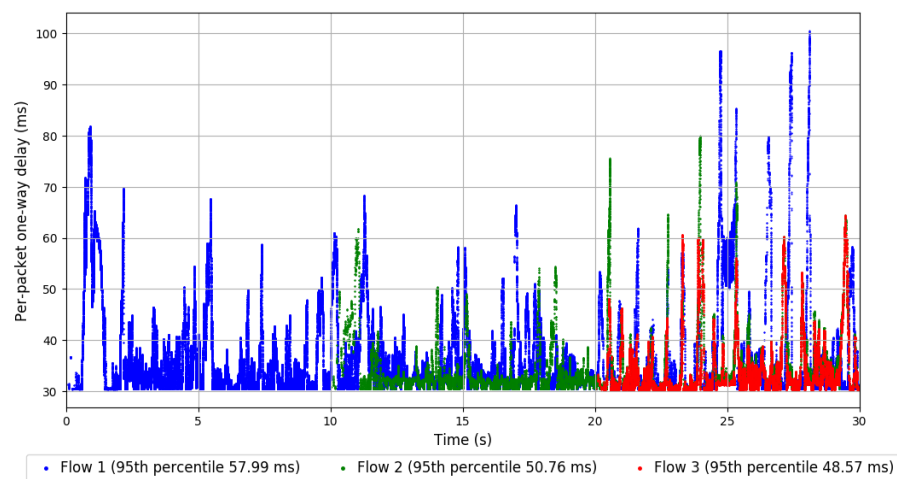
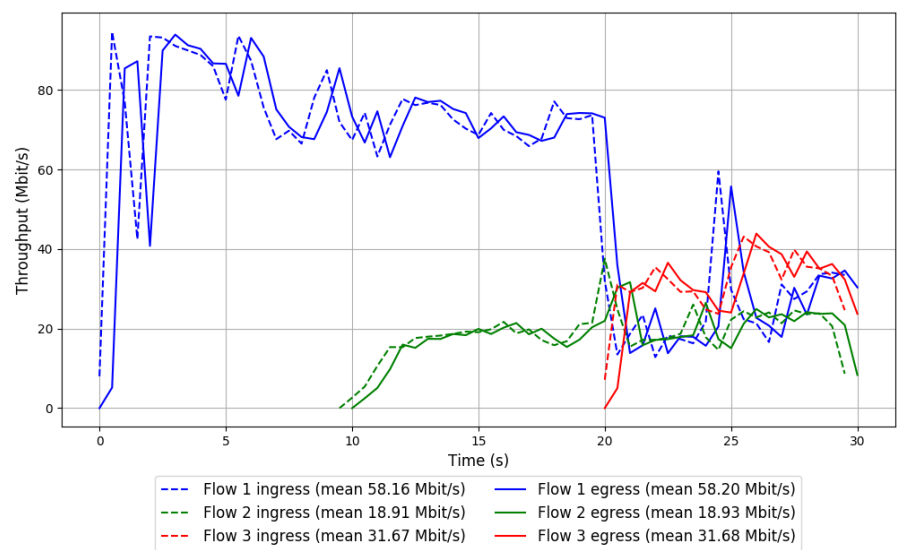
-- Flow 3:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 48.566 ms

Loss rate: 0.62%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-25 05:54:08

End at: 2019-11-25 05:54:38

Local clock offset: 3.163 ms

Remote clock offset: 3.983 ms

# Below is generated by plot.py at 2019-11-25 06:19:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 65.167 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 93.645 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 49.753 ms

Loss rate: 0.30%

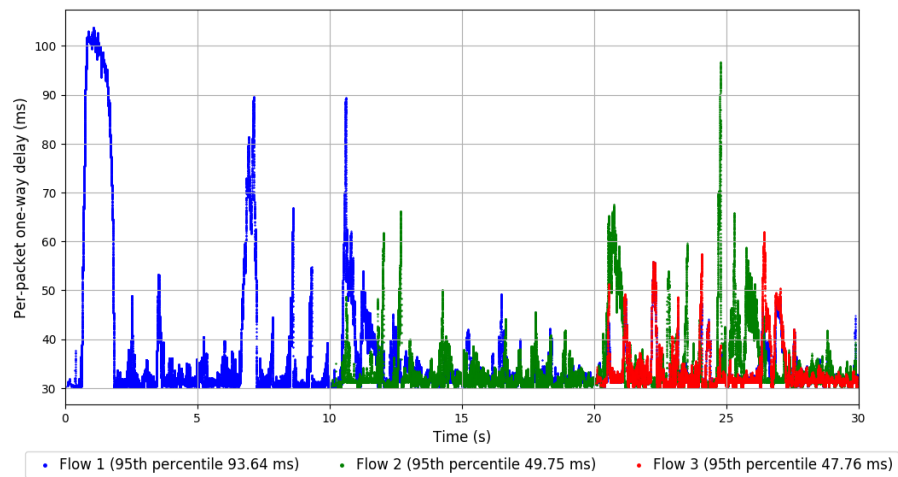
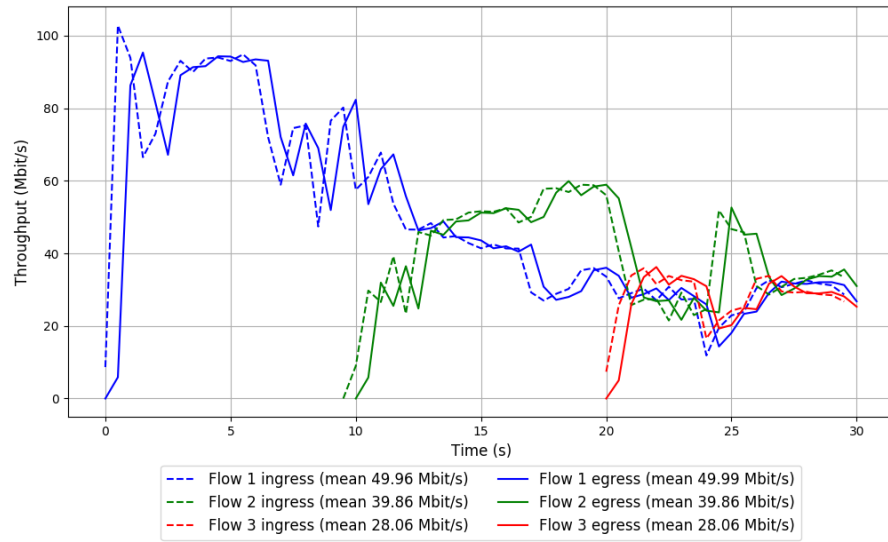
-- Flow 3:

Average throughput: 28.06 Mbit/s

95th percentile per-packet one-way delay: 47.759 ms

Loss rate: 0.63%

## Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 15:47:39

End at: 2019-11-24 15:48:09

Local clock offset: 3.154 ms

Remote clock offset: 3.837 ms

# Below is generated by plot.py at 2019-11-25 06:19:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 54.134 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 59.812 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 52.527 ms

Loss rate: 0.29%

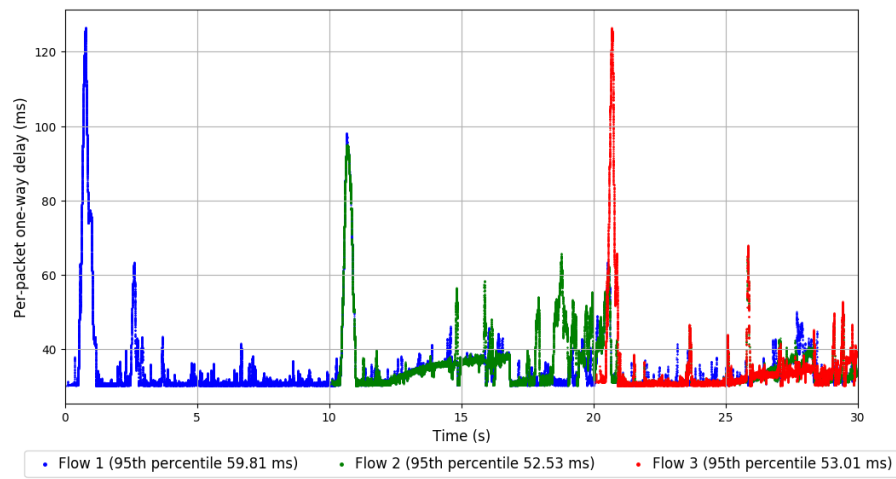
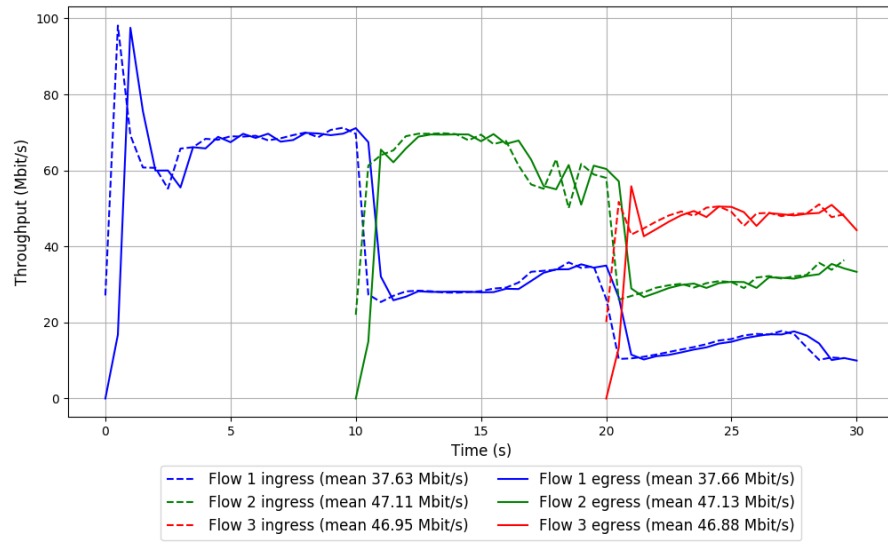
-- Flow 3:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 53.009 ms

Loss rate: 0.79%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 17:09:47

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

Local clock offset: 3.527 ms

Remote clock offset: 4.213 ms

# Below is generated by plot.py at 2019-11-25 06:19:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 50.203 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 51.80 Mbit/s

95th percentile per-packet one-way delay: 46.222 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 38.56 Mbit/s

95th percentile per-packet one-way delay: 52.924 ms

Loss rate: 0.27%

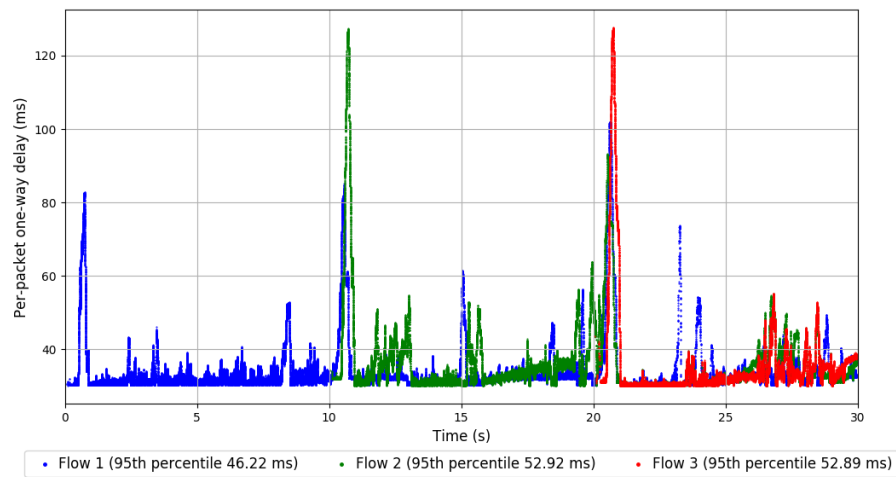
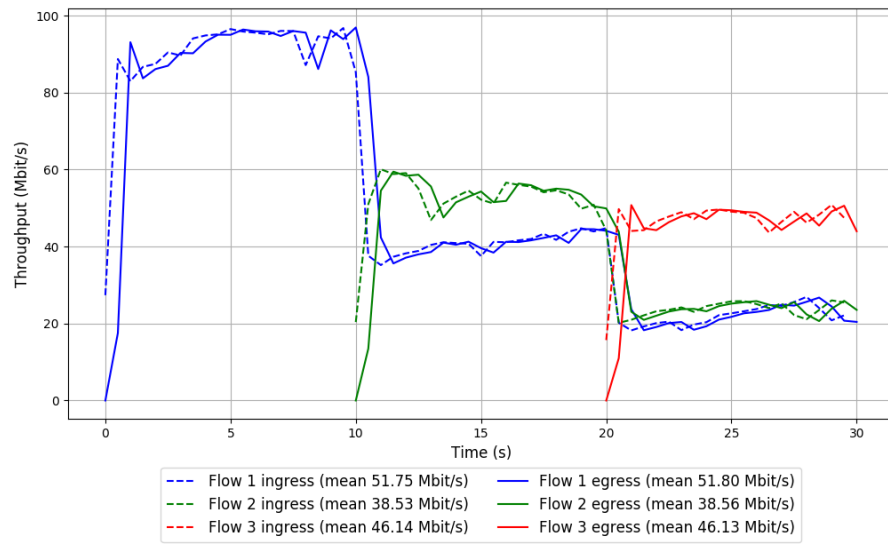
-- Flow 3:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 52.891 ms

Loss rate: 0.79%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 21:40:54

End at: 2019-11-24 21:41:24

Local clock offset: 2.363 ms

Remote clock offset: 7.953 ms

# Below is generated by plot.py at 2019-11-25 06:19:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.32 Mbit/s

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

Loss rate: 0.24%

-- Flow 1:

Average throughput: 51.79 Mbit/s

95th percentile per-packet one-way delay: 58.574 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 35.89 Mbit/s

95th percentile per-packet one-way delay: 55.992 ms

Loss rate: 0.31%

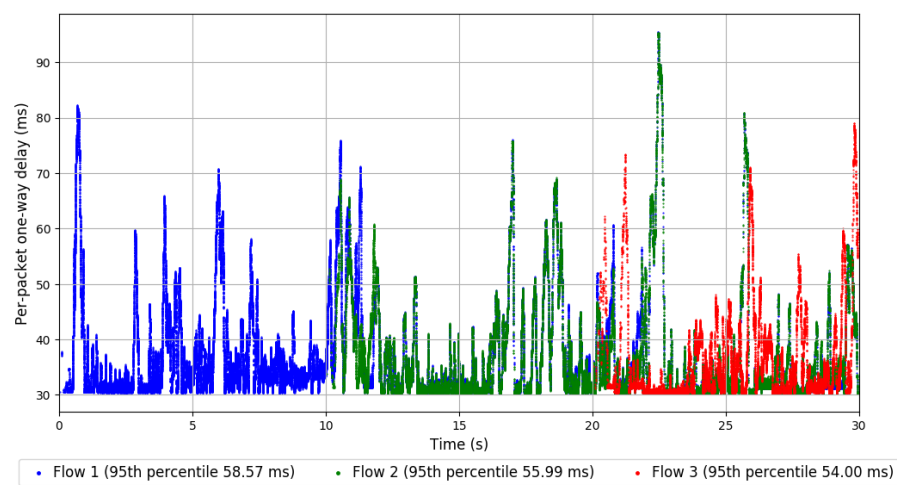
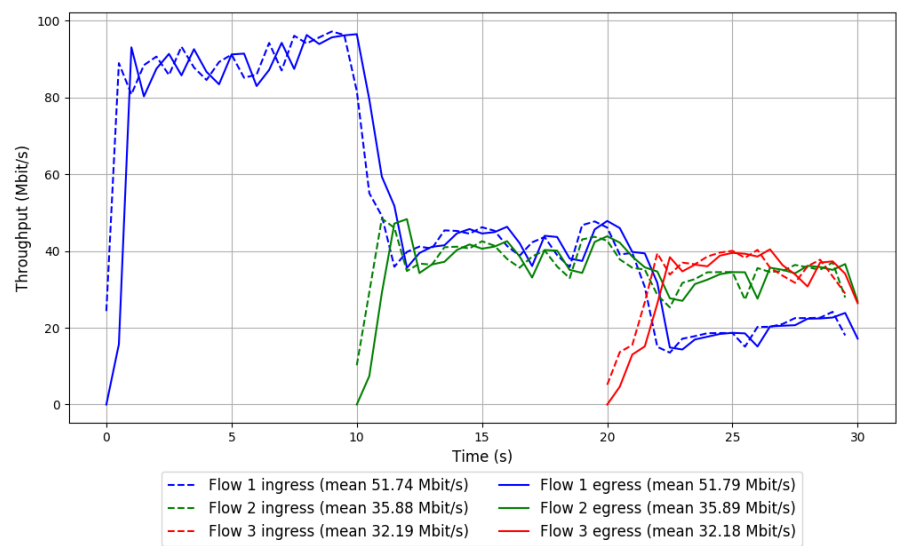
-- Flow 3:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 53.999 ms

Loss rate: 0.71%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-11-25 00:56:02

End at: 2019-11-25 00:56:32

Local clock offset: 3.062 ms

Remote clock offset: 5.7 ms

# Below is generated by plot.py at 2019-11-25 06:19:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 47.650 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 51.86 Mbit/s

95th percentile per-packet one-way delay: 46.993 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 46.659 ms

Loss rate: 0.29%

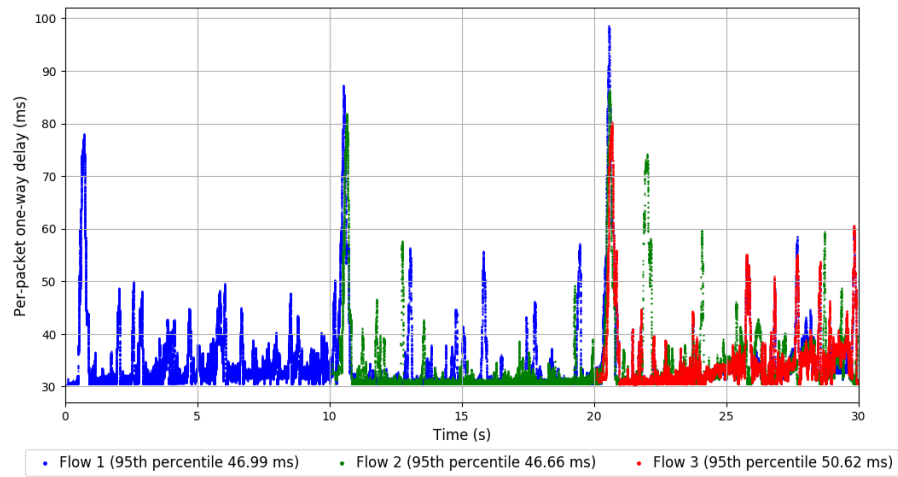
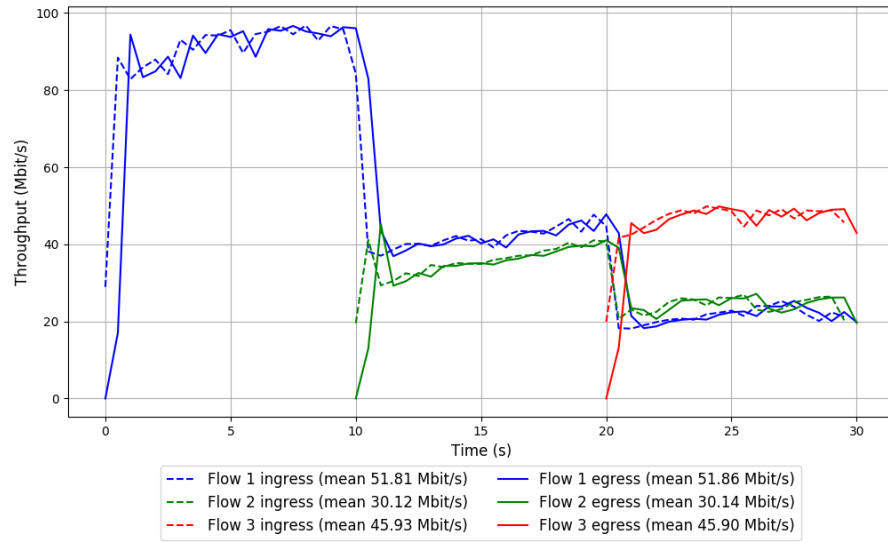
-- Flow 3:

Average throughput: 45.90 Mbit/s

95th percentile per-packet one-way delay: 50.621 ms

Loss rate: 0.71%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-11-25 04:28:59

End at: 2019-11-25 04:29:29

Local clock offset: 3.415 ms

Remote clock offset: 3.333 ms

# Below is generated by plot.py at 2019-11-25 06:19:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 54.995 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 57.713 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 52.111 ms

Loss rate: 0.37%

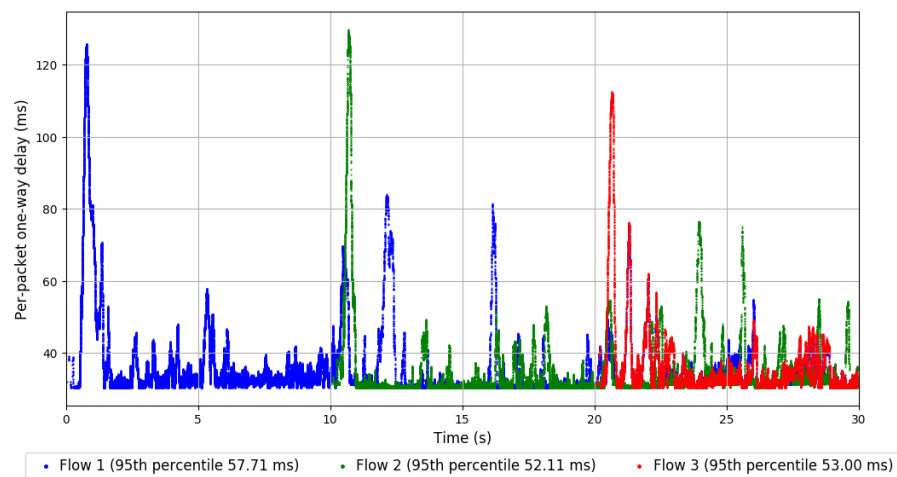
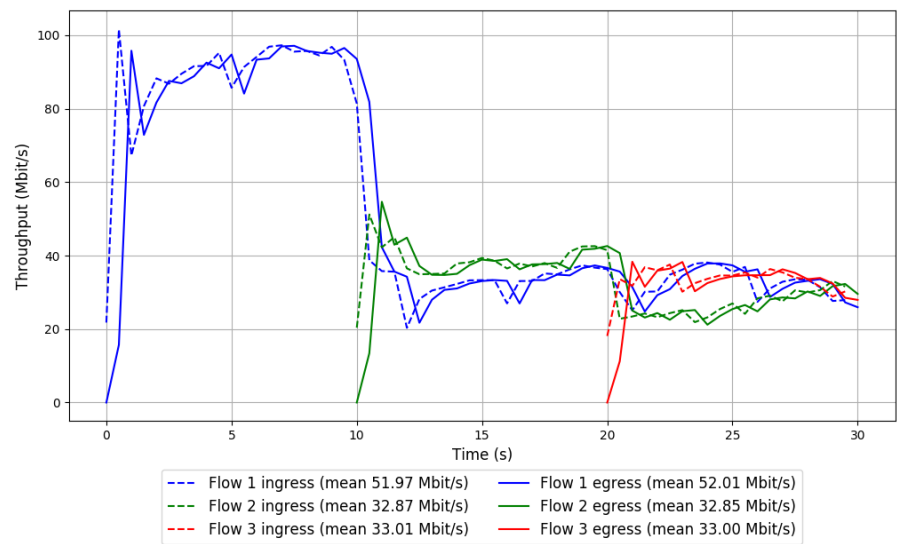
-- Flow 3:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 52.997 ms

Loss rate: 0.66%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-11-24 16:02:37

End at: 2019-11-24 16:03:07

Local clock offset: 2.977 ms

Remote clock offset: 3.872 ms

# Below is generated by plot.py at 2019-11-25 06:19:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 125.381 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 56.40 Mbit/s

95th percentile per-packet one-way delay: 131.568 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 35.92 Mbit/s

95th percentile per-packet one-way delay: 124.581 ms

Loss rate: 1.28%

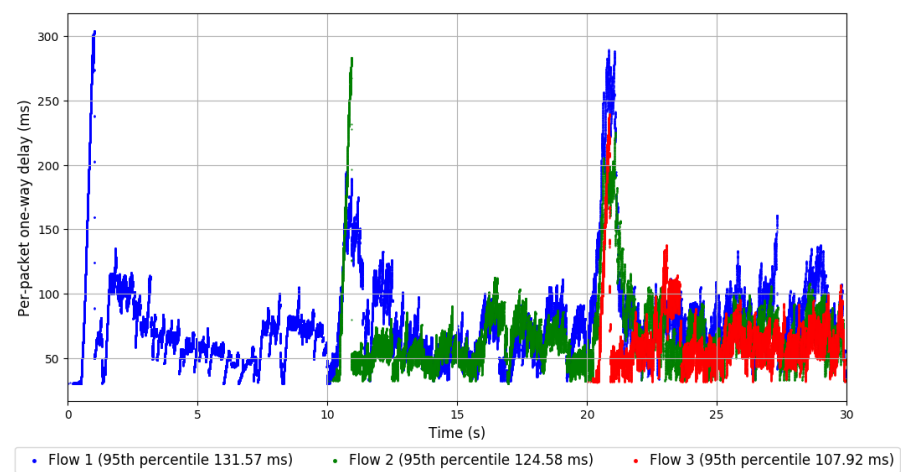
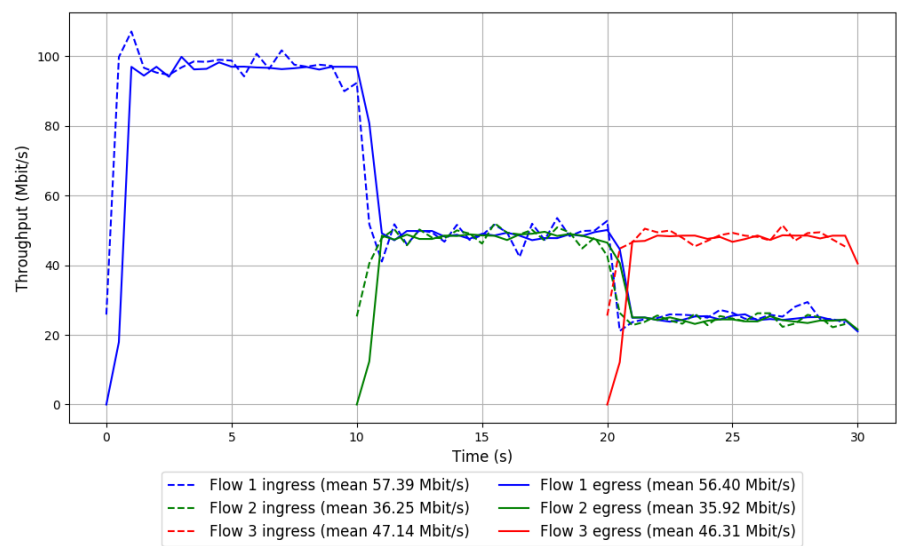
-- Flow 3:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: 107.919 ms

Loss rate: 2.39%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-11-24 17:25:39

End at: 2019-11-24 17:26:09

Local clock offset: 4.165 ms

Remote clock offset: 4.216 ms

# Below is generated by plot.py at 2019-11-25 06:19:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 131.264 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 140.788 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 47.23 Mbit/s

95th percentile per-packet one-way delay: 112.527 ms

Loss rate: 1.65%

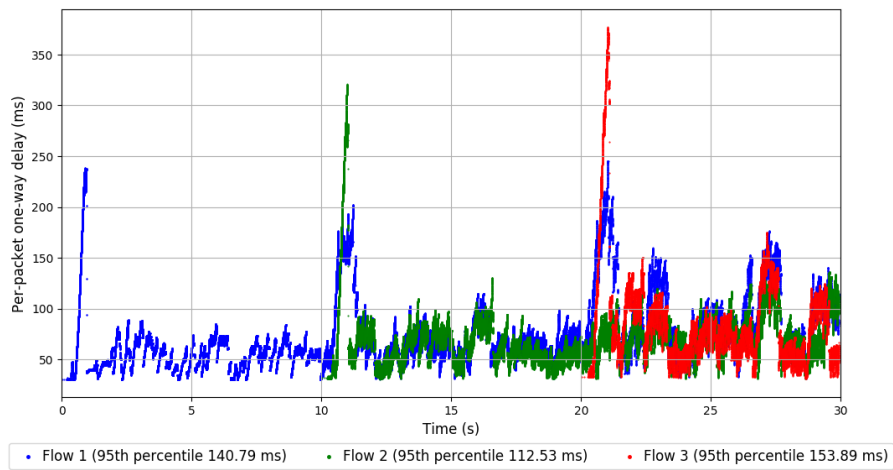
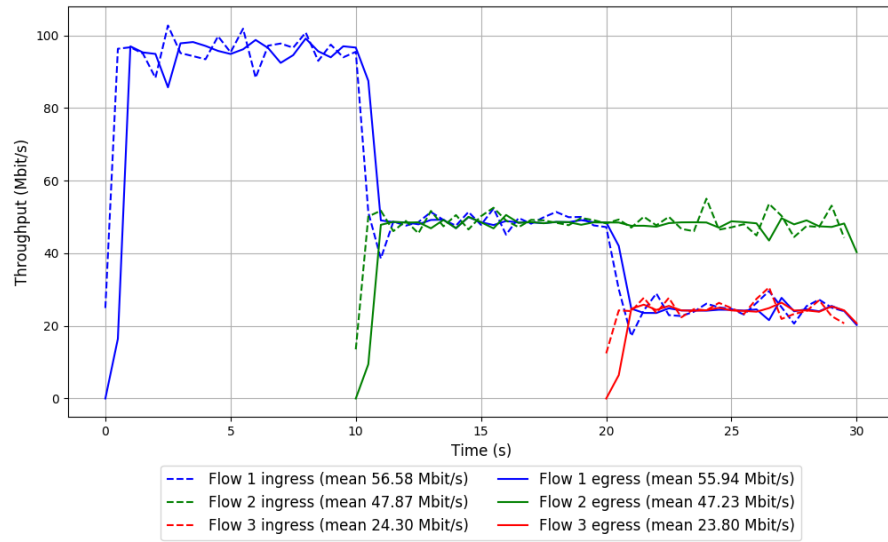
-- Flow 3:

Average throughput: 23.80 Mbit/s

95th percentile per-packet one-way delay: 153.886 ms

Loss rate: 2.56%

## Run 2: Report of FillP — Data Link

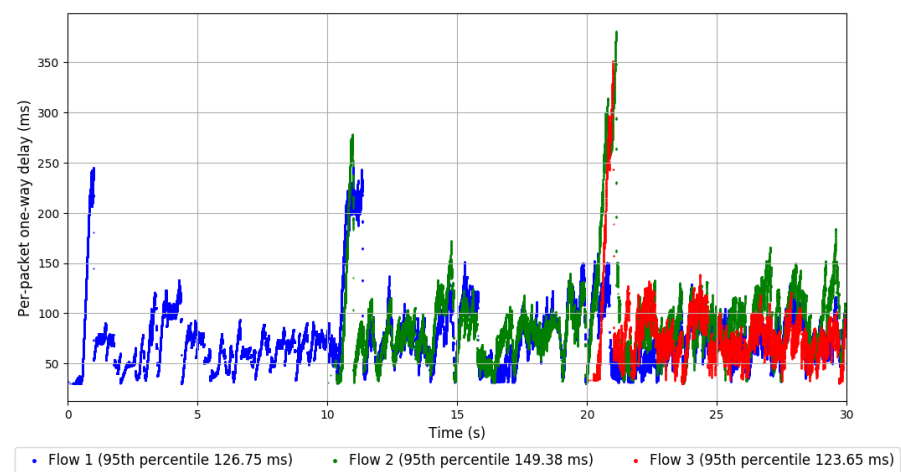
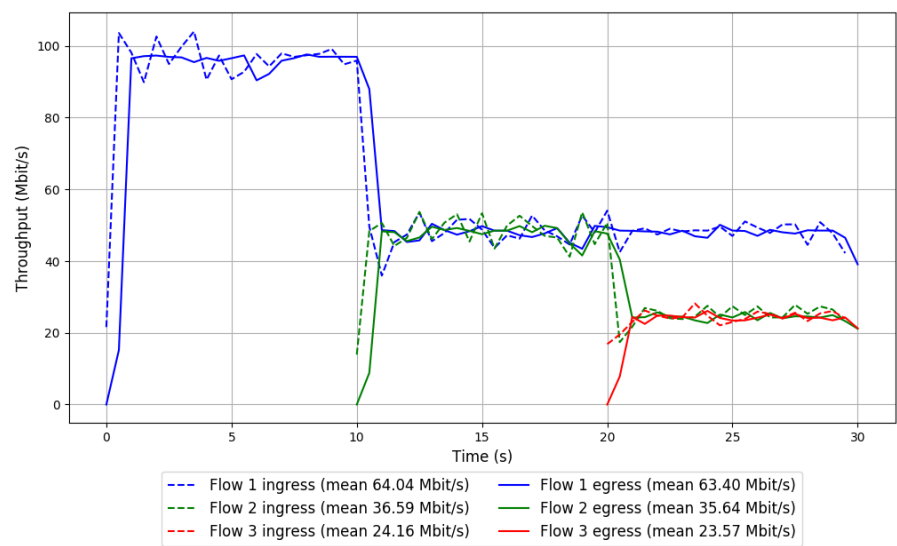


Run 3: Statistics of FillP

Start at: 2019-11-24 23:08:23  
End at: 2019-11-24 23:08:53  
Local clock offset: 3.501 ms  
Remote clock offset: 10.233 ms

# Below is generated by plot.py at 2019-11-25 06:19:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.90 Mbit/s  
95th percentile per-packet one-way delay: 134.460 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 63.40 Mbit/s  
95th percentile per-packet one-way delay: 126.755 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 35.64 Mbit/s  
95th percentile per-packet one-way delay: 149.382 ms  
Loss rate: 2.90%  
-- Flow 3:  
Average throughput: 23.57 Mbit/s  
95th percentile per-packet one-way delay: 123.654 ms  
Loss rate: 2.99%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-25 01:18:37

End at: 2019-11-25 01:19:07

Local clock offset: 3.385 ms

Remote clock offset: 5.946 ms

# Below is generated by plot.py at 2019-11-25 06:20:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 142.306 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 137.931 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 47.62 Mbit/s

95th percentile per-packet one-way delay: 144.340 ms

Loss rate: 3.13%

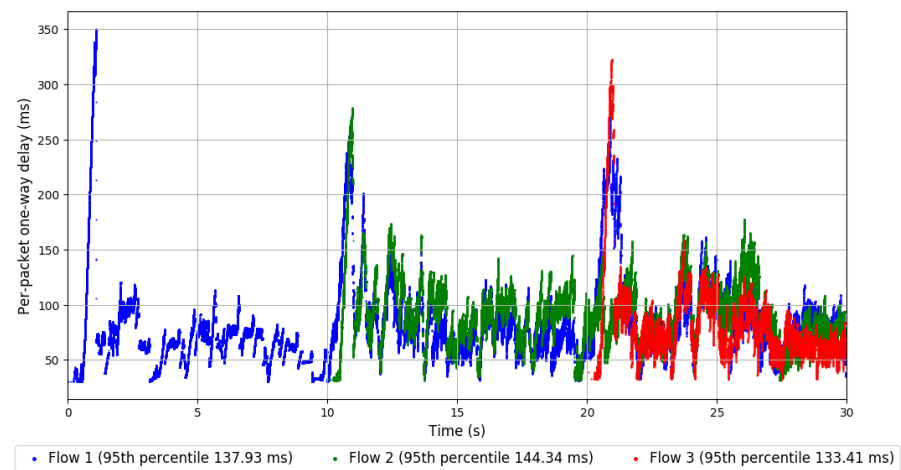
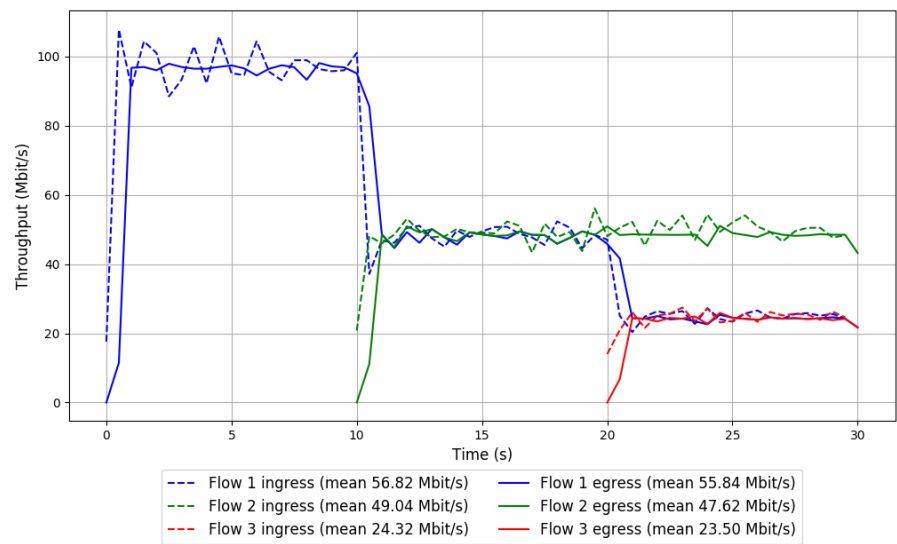
-- Flow 3:

Average throughput: 23.50 Mbit/s

95th percentile per-packet one-way delay: 133.411 ms

Loss rate: 4.08%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-25 05:03:29

End at: 2019-11-25 05:03:59

Local clock offset: 4.033 ms

Remote clock offset: 3.664 ms

# Below is generated by plot.py at 2019-11-25 06:20:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 136.246 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 57.67 Mbit/s

95th percentile per-packet one-way delay: 98.350 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 40.74 Mbit/s

95th percentile per-packet one-way delay: 161.835 ms

Loss rate: 3.10%

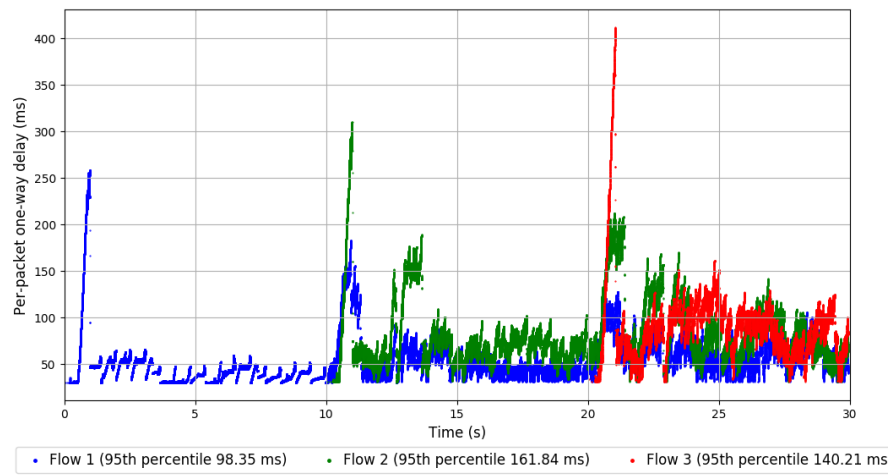
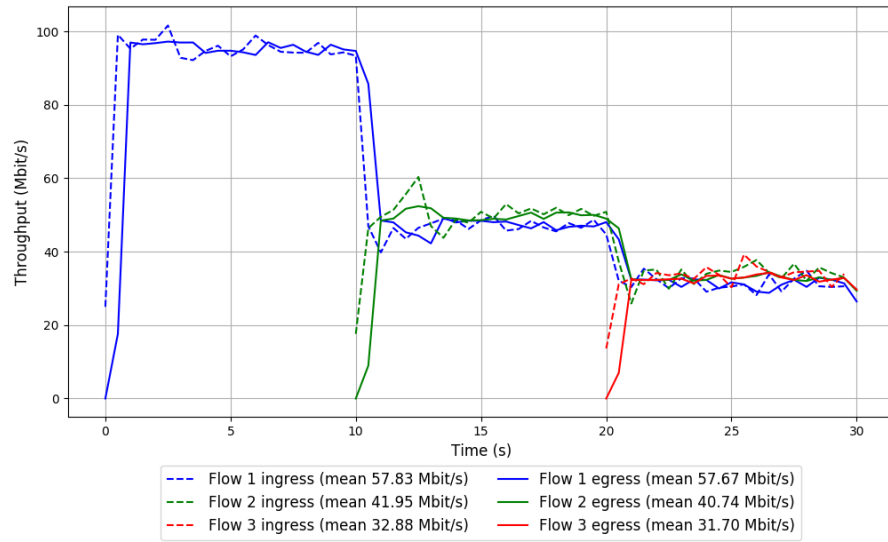
-- Flow 3:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 140.211 ms

Loss rate: 4.14%

## Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 17:05:54

End at: 2019-11-24 17:06:24

Local clock offset: 3.526 ms

Remote clock offset: 4.104 ms

# Below is generated by plot.py at 2019-11-25 06:20:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 119.160 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 55.03 Mbit/s

95th percentile per-packet one-way delay: 118.342 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 47.16 Mbit/s

95th percentile per-packet one-way delay: 119.940 ms

Loss rate: 0.62%

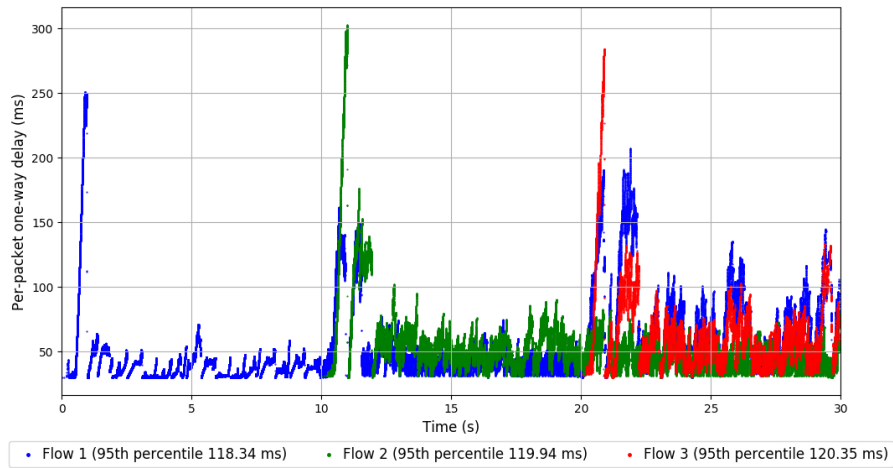
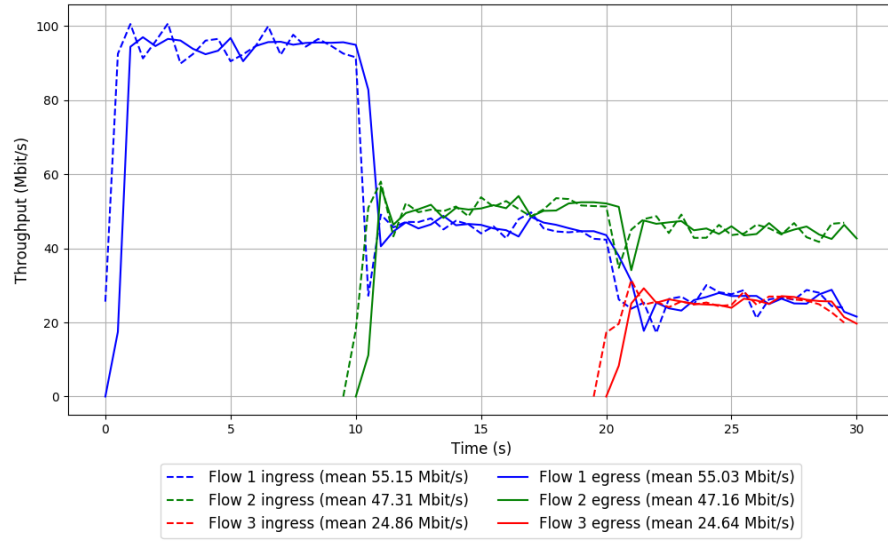
-- Flow 3:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 120.353 ms

Loss rate: 1.26%

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

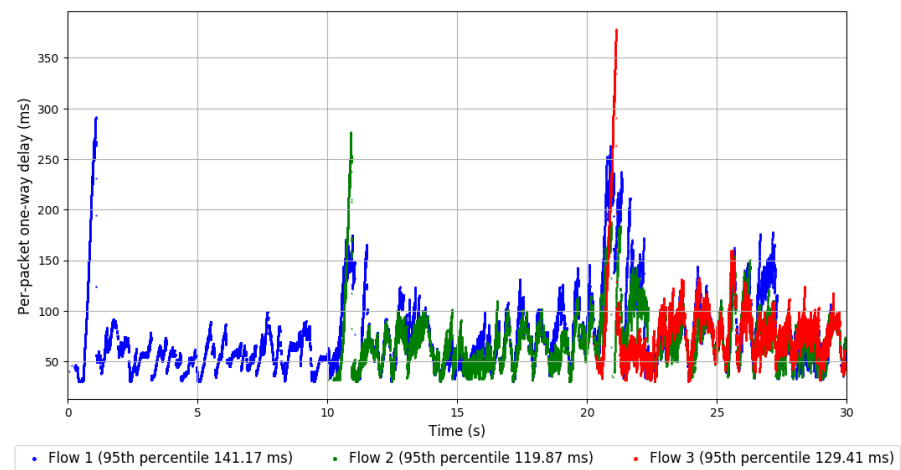
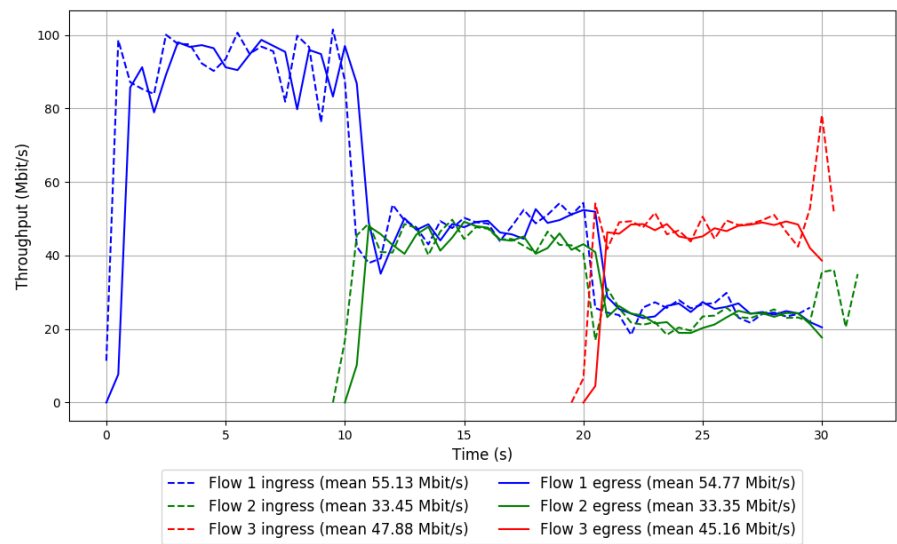


Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 20:11:58  
End at: 2019-11-24 20:12:28  
Local clock offset: 3.334 ms  
Remote clock offset: 14.505 ms

# Below is generated by plot.py at 2019-11-25 06:20:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.86 Mbit/s  
95th percentile per-packet one-way delay: 135.742 ms  
Loss rate: 5.77%  
-- Flow 1:  
Average throughput: 54.77 Mbit/s  
95th percentile per-packet one-way delay: 141.174 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 33.35 Mbit/s  
95th percentile per-packet one-way delay: 119.870 ms  
Loss rate: 9.73%  
-- Flow 3:  
Average throughput: 45.16 Mbit/s  
95th percentile per-packet one-way delay: 129.412 ms  
Loss rate: 15.25%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-11-25 00:50:46

End at: 2019-11-25 00:51:16

Local clock offset: 2.921 ms

Remote clock offset: 5.696 ms

# Below is generated by plot.py at 2019-11-25 06:20:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 109.548 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 57.45 Mbit/s

95th percentile per-packet one-way delay: 115.319 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 40.38 Mbit/s

95th percentile per-packet one-way delay: 106.888 ms

Loss rate: 0.88%

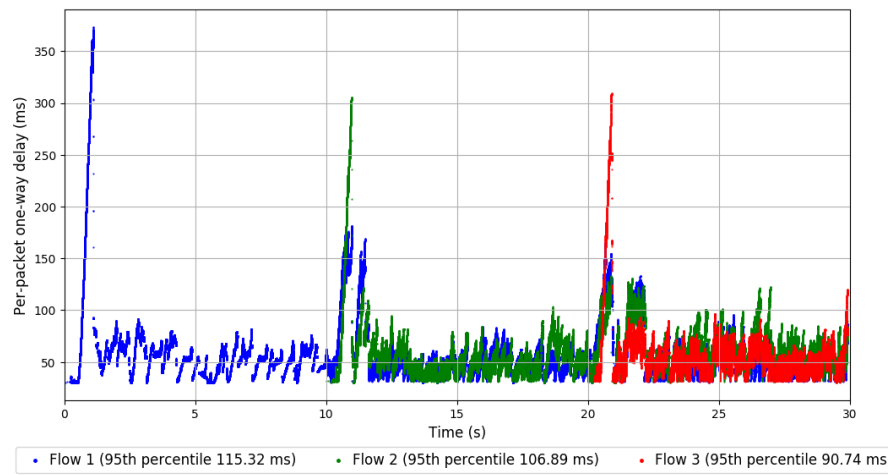
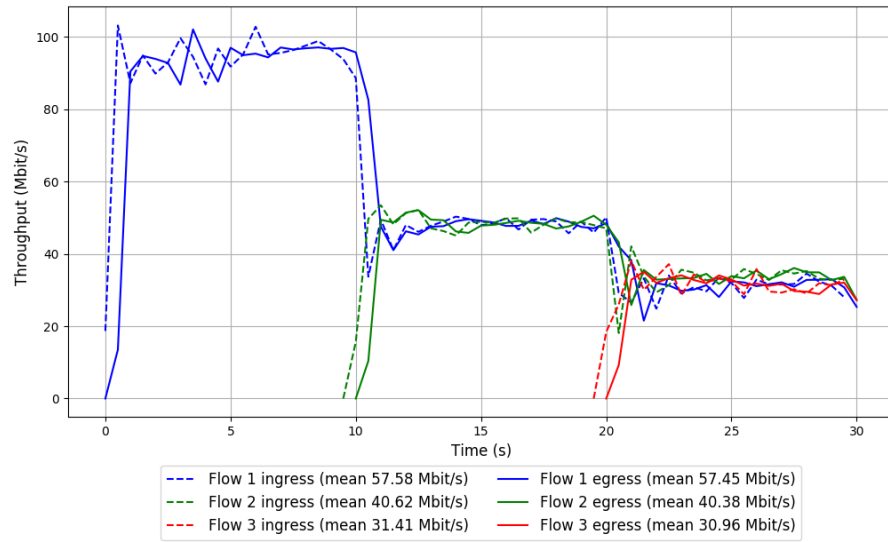
-- Flow 3:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 90.739 ms

Loss rate: 1.60%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-25 04:18:23

End at: 2019-11-25 04:18:53

Local clock offset: 3.438 ms

Remote clock offset: 4.203 ms

# Below is generated by plot.py at 2019-11-25 06:21:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 112.800 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 128.870 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 96.845 ms

Loss rate: 0.73%

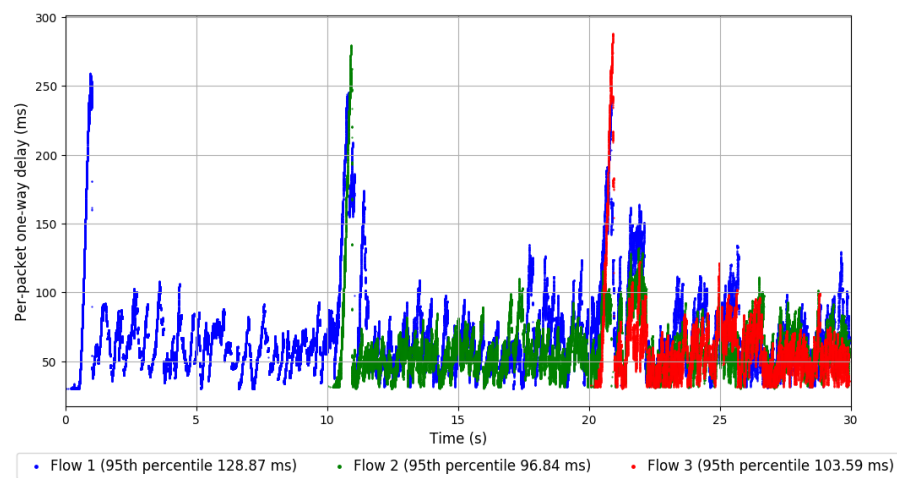
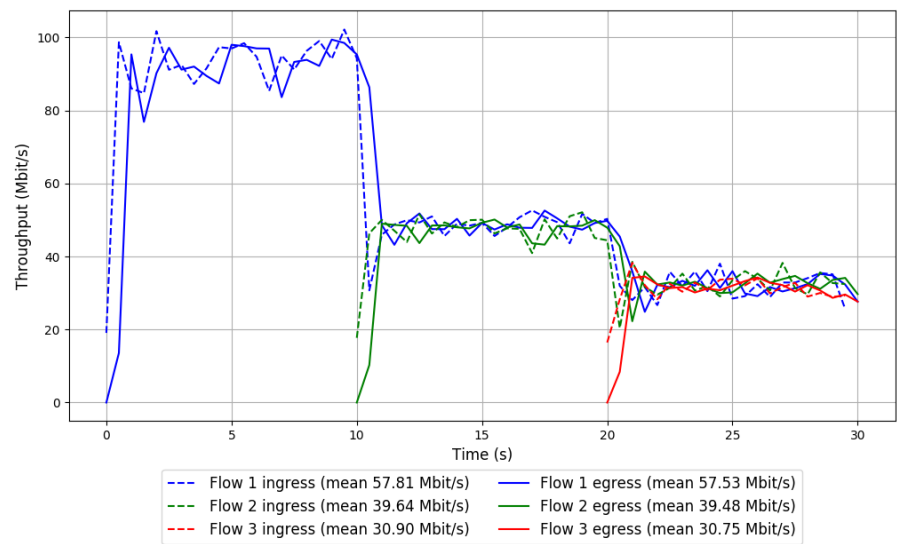
-- Flow 3:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 103.588 ms

Loss rate: 1.15%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-11-25 06:09:28

End at: 2019-11-25 06:09:58

Local clock offset: 3.131 ms

Remote clock offset: 3.52 ms

# Below is generated by plot.py at 2019-11-25 06:21:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 126.077 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 109.857 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 34.71 Mbit/s

95th percentile per-packet one-way delay: 150.056 ms

Loss rate: 0.73%

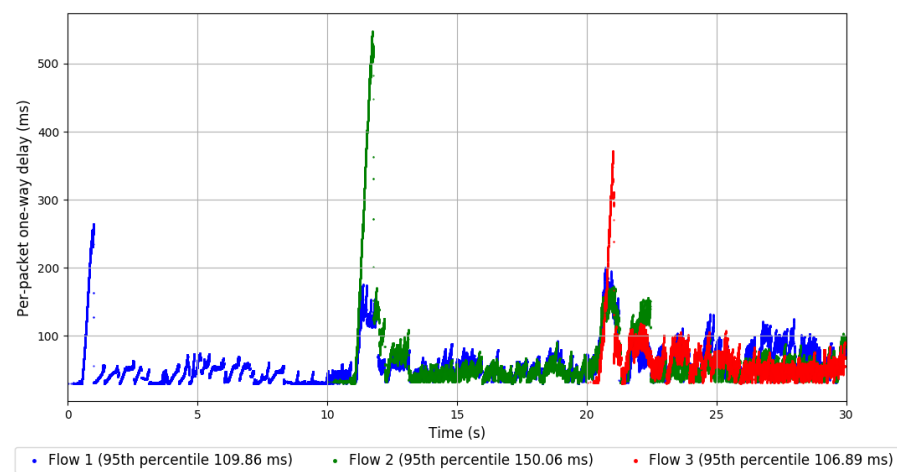
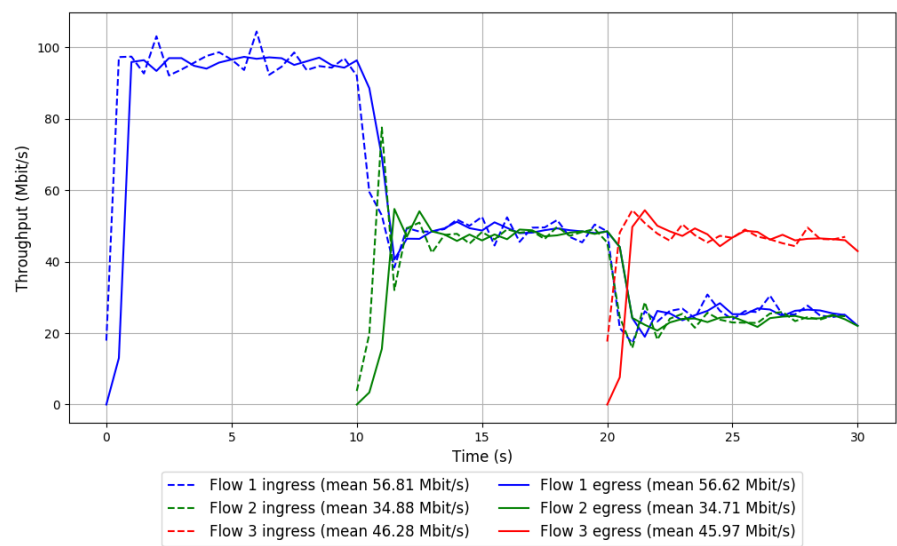
-- Flow 3:

Average throughput: 45.97 Mbit/s

95th percentile per-packet one-way delay: 106.895 ms

Loss rate: 1.34%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-11-24 16:43:13

End at: 2019-11-24 16:43:43

Local clock offset: 3.487 ms

Remote clock offset: 4.227 ms

# Below is generated by plot.py at 2019-11-25 06:21:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 43.807 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 62.17 Mbit/s

95th percentile per-packet one-way delay: 44.318 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 37.738 ms

Loss rate: 0.36%

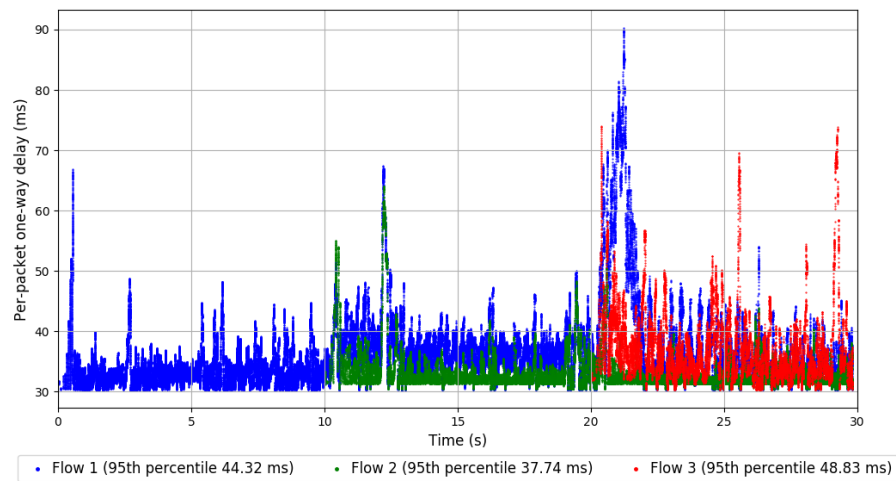
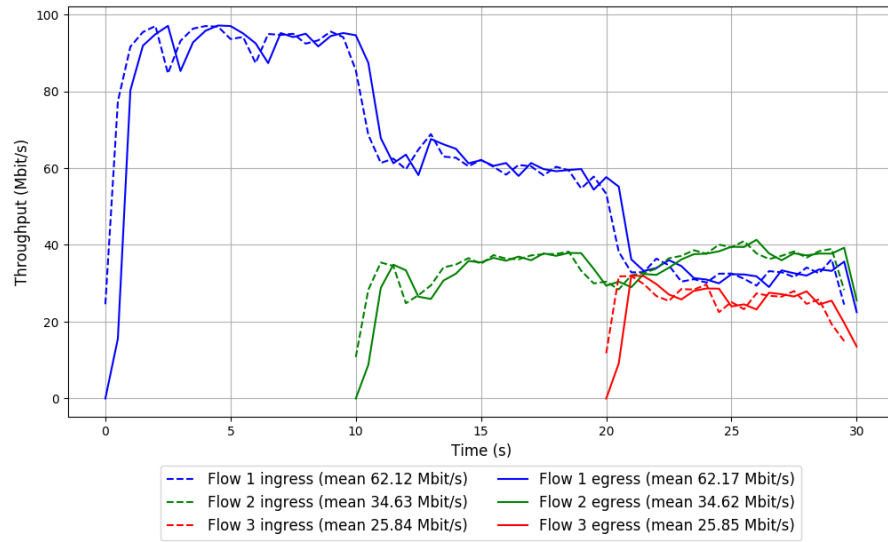
-- Flow 3:

Average throughput: 25.85 Mbit/s

95th percentile per-packet one-way delay: 48.832 ms

Loss rate: 0.62%

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

/home/ubuntu/pantheon/data/2019-11-24T15-47-Mexico-to-AWS-California-2-5-runs-3-flows/indigo

Run 2: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Indigo

Start at: 2019-11-25 00:26:40

End at: 2019-11-25 00:27:10

Local clock offset: 2.629 ms

Remote clock offset: 5.09 ms

# Below is generated by plot.py at 2019-11-25 06:21:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.37 Mbit/s

95th percentile per-packet one-way delay: 47.077 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 16.89 Mbit/s

95th percentile per-packet one-way delay: 57.422 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 61.48 Mbit/s

95th percentile per-packet one-way delay: 45.479 ms

Loss rate: 0.31%

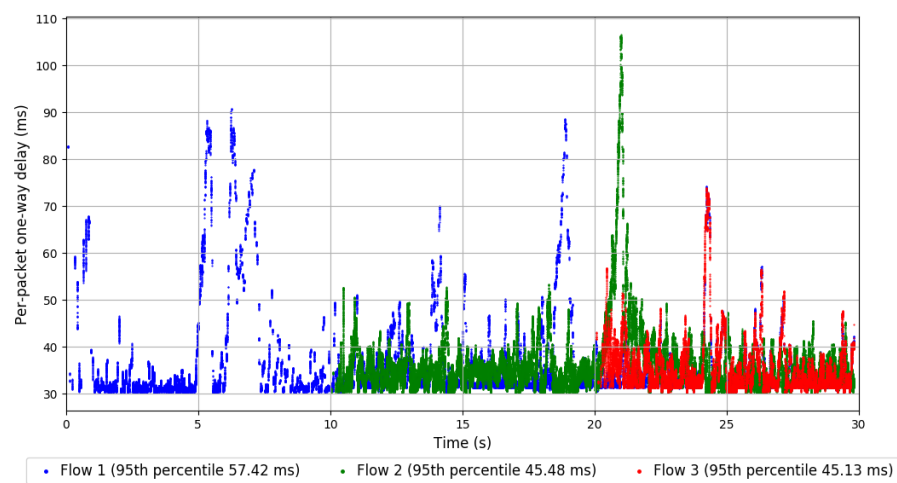
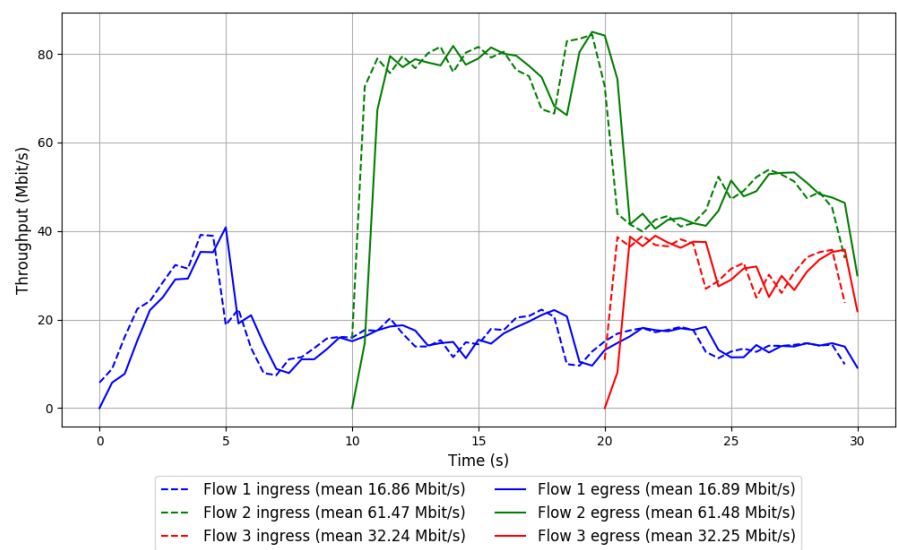
-- Flow 3:

Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 45.133 ms

Loss rate: 0.68%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-11-25 03:21:28

End at: 2019-11-25 03:21:58

Local clock offset: 3.788 ms

Remote clock offset: 3.893 ms

# Below is generated by plot.py at 2019-11-25 06:21:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 56.001 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 37.70 Mbit/s

95th percentile per-packet one-way delay: 47.344 ms

Loss rate: 0.25%

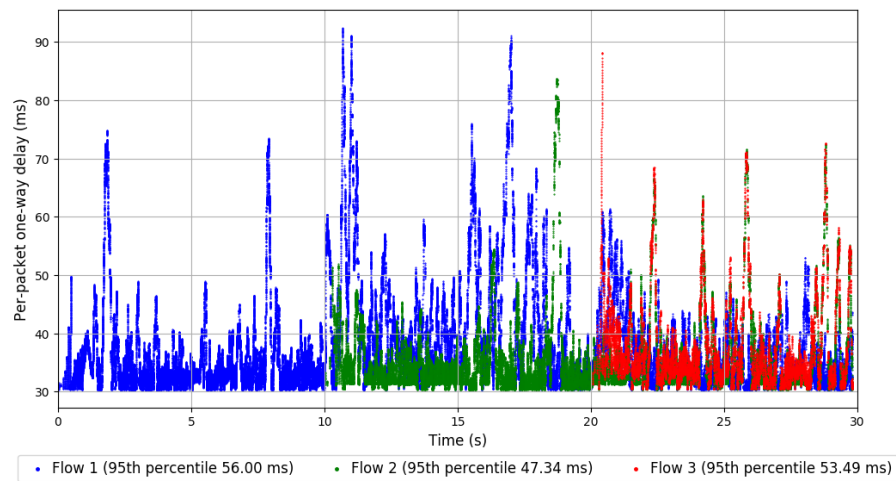
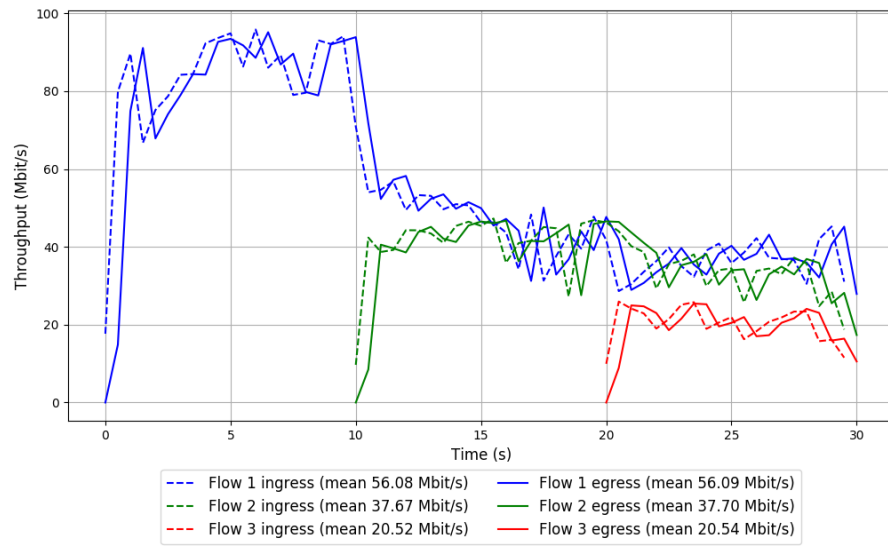
-- Flow 3:

Average throughput: 20.54 Mbit/s

95th percentile per-packet one-way delay: 53.486 ms

Loss rate: 0.57%

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



Run 5: Statistics of Indigo

Start at: 2019-11-25 05:48:10

End at: 2019-11-25 05:48:40

Local clock offset: 3.1 ms

Remote clock offset: 4.183 ms

# Below is generated by plot.py at 2019-11-25 06:21:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 45.906 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 55.44 Mbit/s

95th percentile per-packet one-way delay: 49.915 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 41.056 ms

Loss rate: 0.33%

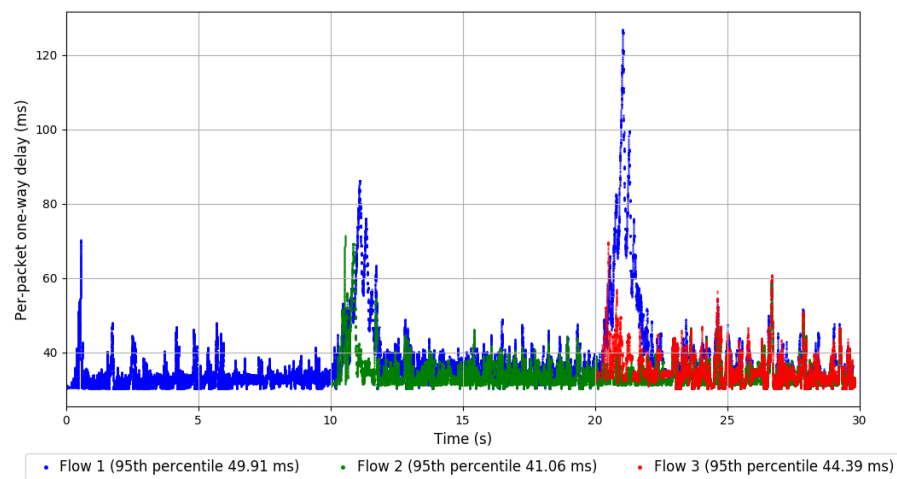
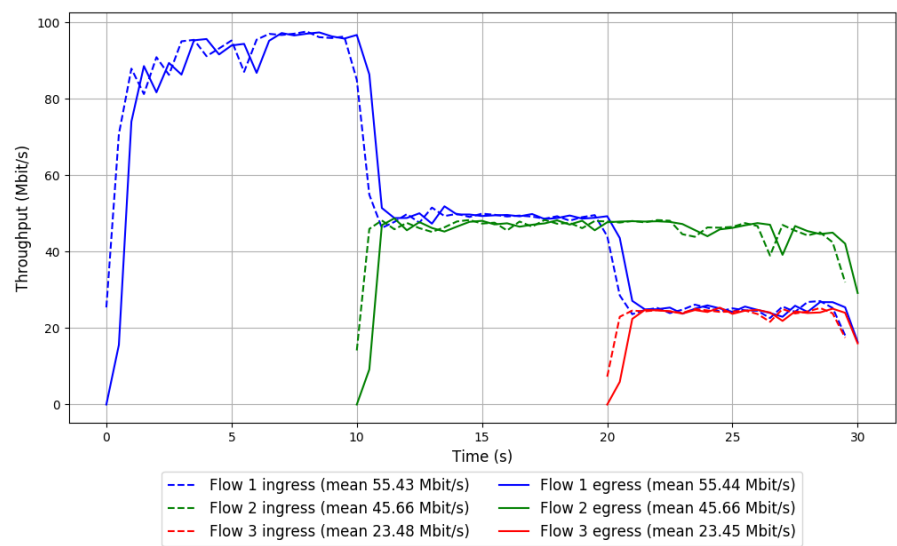
-- Flow 3:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 44.393 ms

Loss rate: 0.75%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 16:18:40

End at: 2019-11-24 16:19:10

Local clock offset: 3.297 ms

Remote clock offset: 4.179 ms

# Below is generated by plot.py at 2019-11-25 06:21:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 64.27 Mbit/s

95th percentile per-packet one-way delay: 47.099 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 55.380 ms

Loss rate: 0.32%

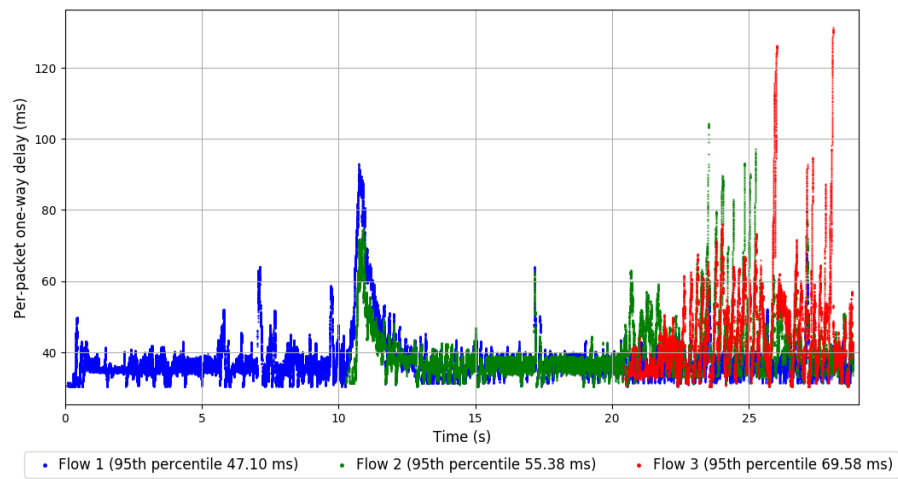
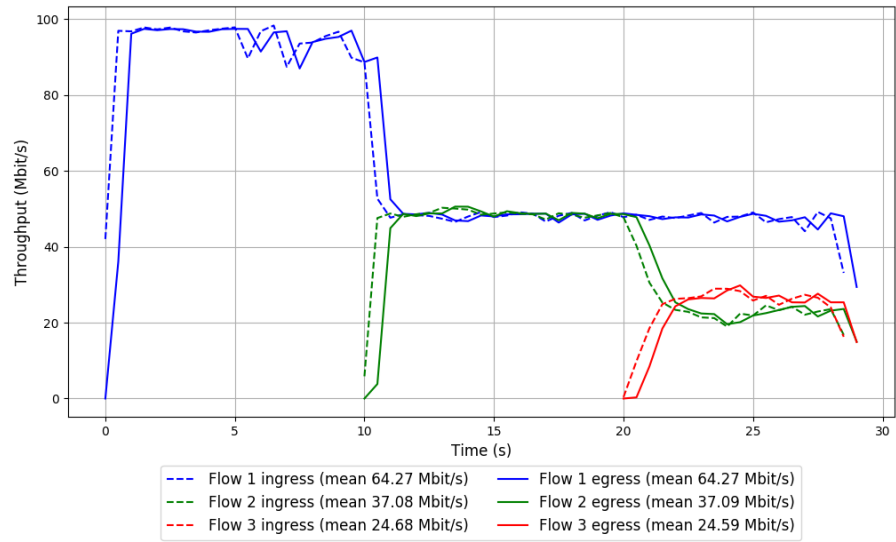
-- Flow 3:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 69.583 ms

Loss rate: 1.03%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 17:42:34

End at: 2019-11-24 17:43:04

Local clock offset: 4.429 ms

Remote clock offset: 4.176 ms

# Below is generated by plot.py at 2019-11-25 06:21:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 57.928 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 58.11 Mbit/s

95th percentile per-packet one-way delay: 59.937 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 41.90 Mbit/s

95th percentile per-packet one-way delay: 51.293 ms

Loss rate: 0.40%

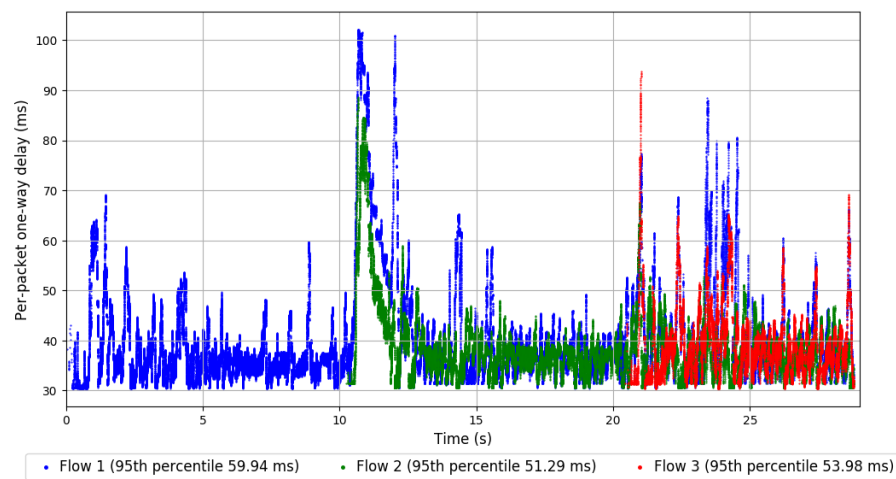
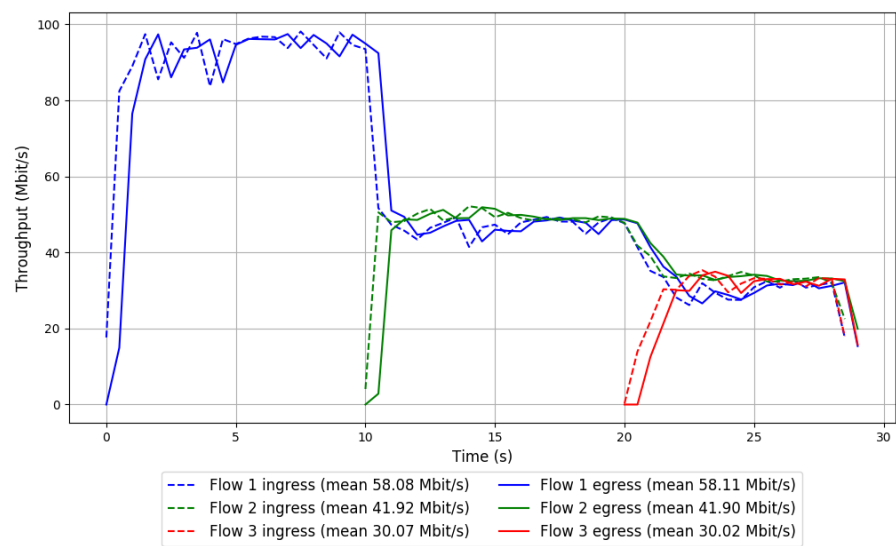
-- Flow 3:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 53.981 ms

Loss rate: 0.94%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 23:46:03

End at: 2019-11-24 23:46:33

Local clock offset: 3.756 ms

Remote clock offset: 5.68 ms

# Below is generated by plot.py at 2019-11-25 06:21:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 60.231 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 60.04 Mbit/s

95th percentile per-packet one-way delay: 59.082 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 31.94 Mbit/s

95th percentile per-packet one-way delay: 73.607 ms

Loss rate: 0.43%

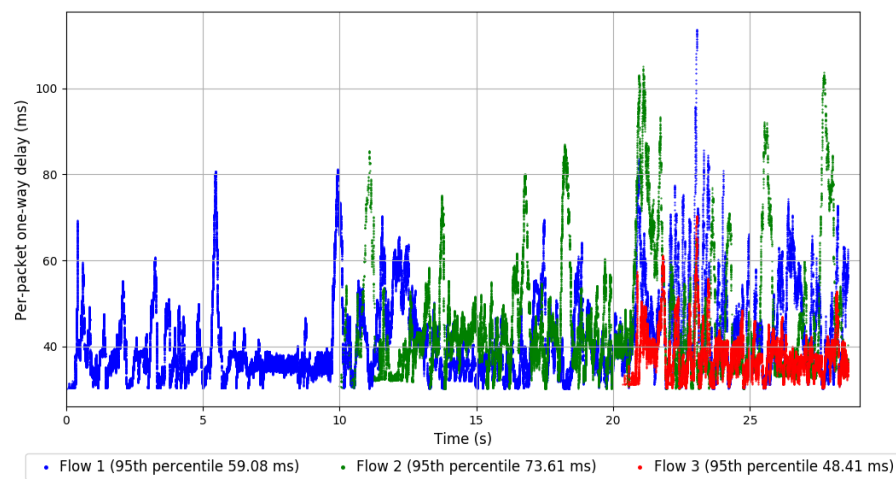
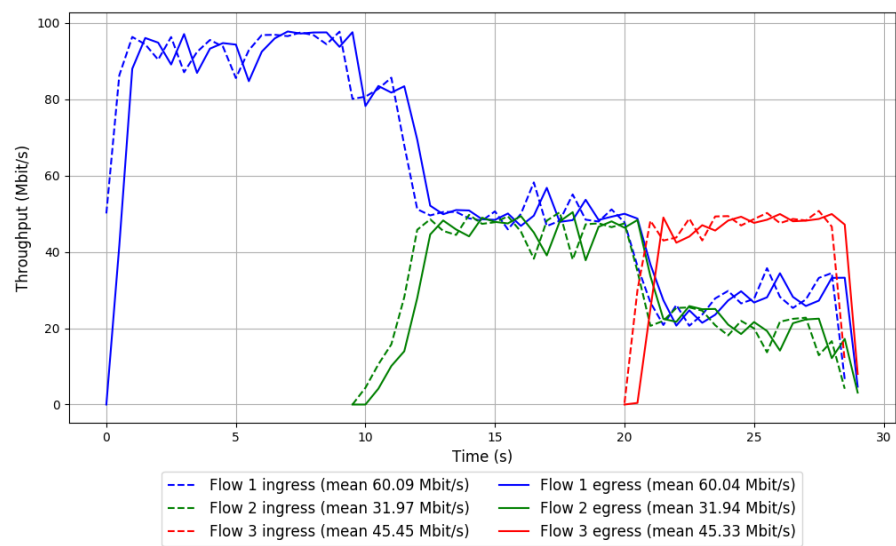
-- Flow 3:

Average throughput: 45.33 Mbit/s

95th percentile per-packet one-way delay: 48.415 ms

Loss rate: 1.02%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-25 01:47:52

End at: 2019-11-25 01:48:22

Local clock offset: 4.109 ms

Remote clock offset: 5.724 ms

# Below is generated by plot.py at 2019-11-25 06:22:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.03 Mbit/s

95th percentile per-packet one-way delay: 82.061 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 48.93 Mbit/s

95th percentile per-packet one-way delay: 84.302 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 47.69 Mbit/s

95th percentile per-packet one-way delay: 77.260 ms

Loss rate: 1.17%

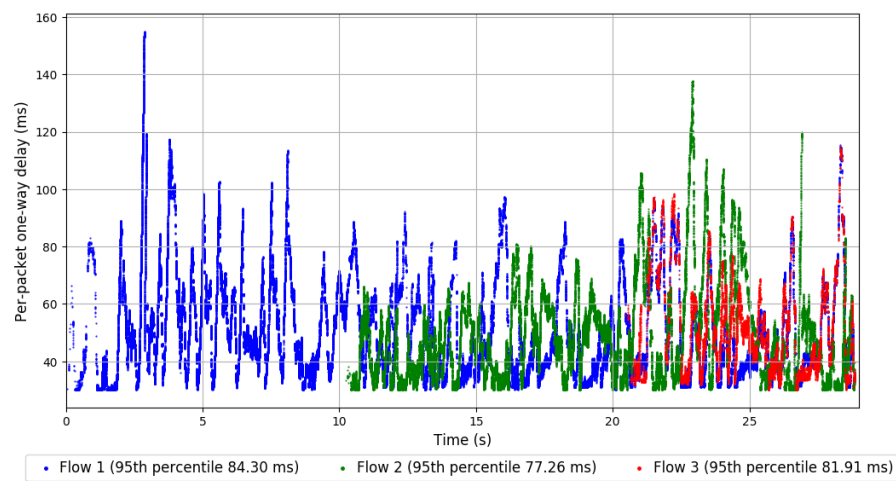
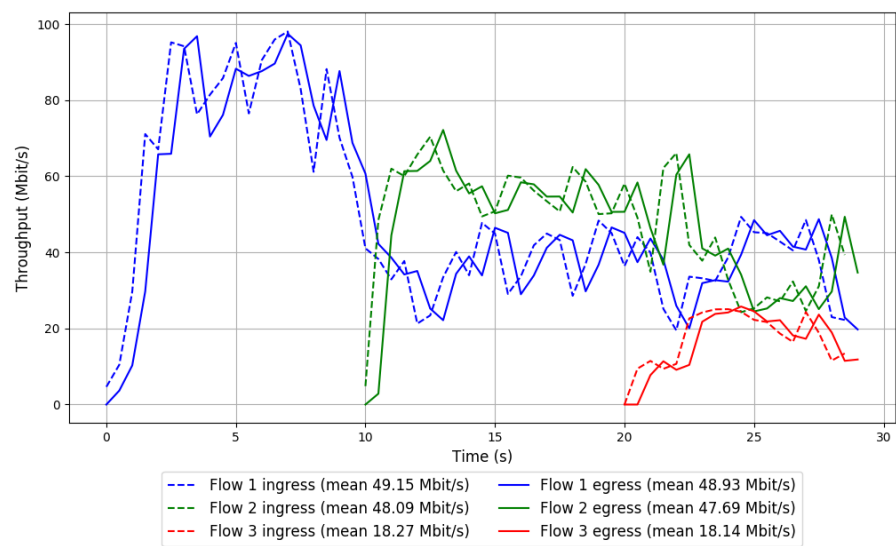
-- Flow 3:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 81.906 ms

Loss rate: 1.76%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-25 05:19:41

End at: 2019-11-25 05:20:11

Local clock offset: 3.38 ms

Remote clock offset: 3.93 ms

# Below is generated by plot.py at 2019-11-25 06:22:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 52.649 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 60.31 Mbit/s

95th percentile per-packet one-way delay: 54.298 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 40.85 Mbit/s

95th percentile per-packet one-way delay: 53.717 ms

Loss rate: 0.36%

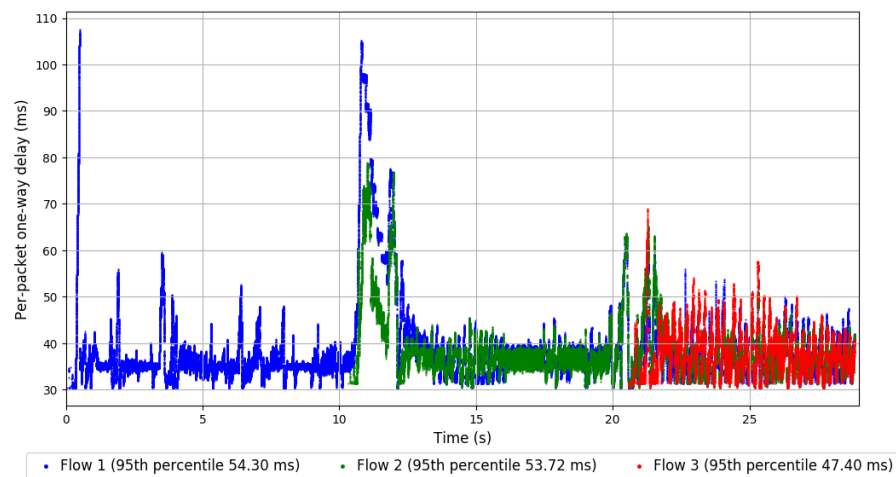
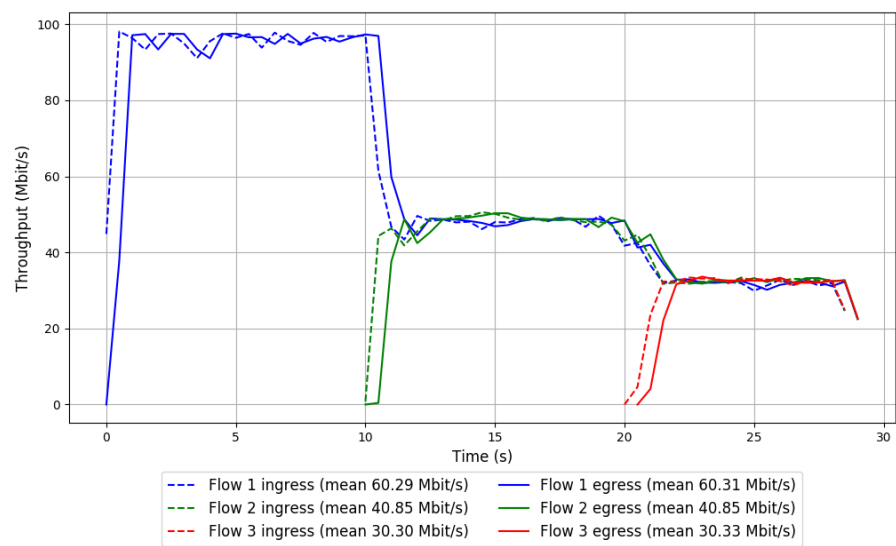
-- Flow 3:

Average throughput: 30.33 Mbit/s

95th percentile per-packet one-way delay: 47.399 ms

Loss rate: 0.94%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 16:38:29

End at: 2019-11-24 16:38:59

Local clock offset: 3.539 ms

Remote clock offset: 4.128 ms

# Below is generated by plot.py at 2019-11-25 06:22:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.03 Mbit/s

95th percentile per-packet one-way delay: 131.402 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 56.44 Mbit/s

95th percentile per-packet one-way delay: 131.409 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 84.731 ms

Loss rate: 2.55%

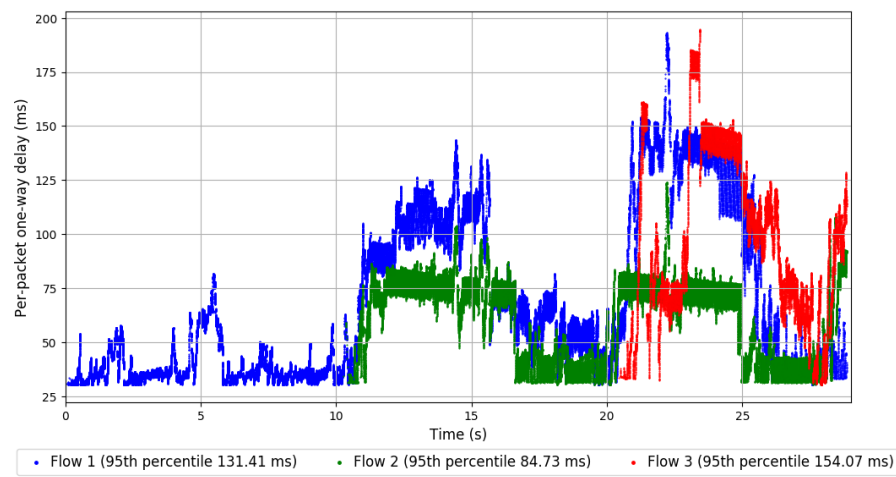
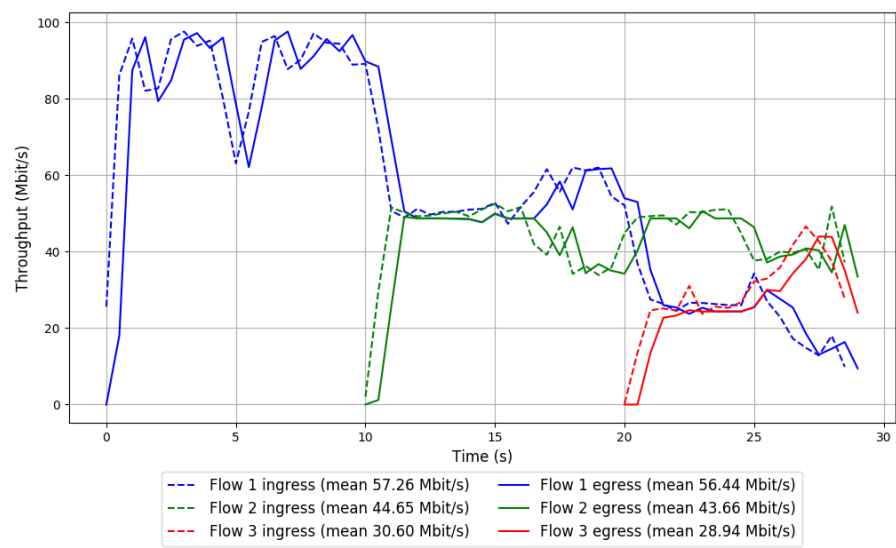
-- Flow 3:

Average throughput: 28.94 Mbit/s

95th percentile per-packet one-way delay: 154.068 ms

Loss rate: 6.16%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 18:37:35

End at: 2019-11-24 18:38:05

Local clock offset: 4.283 ms

Remote clock offset: 3.519 ms

# Below is generated by plot.py at 2019-11-25 06:22:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 121.250 ms

Loss rate: 4.04%

-- Flow 1:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 116.421 ms

Loss rate: 2.84%

-- Flow 2:

Average throughput: 36.59 Mbit/s

95th percentile per-packet one-way delay: 118.574 ms

Loss rate: 6.02%

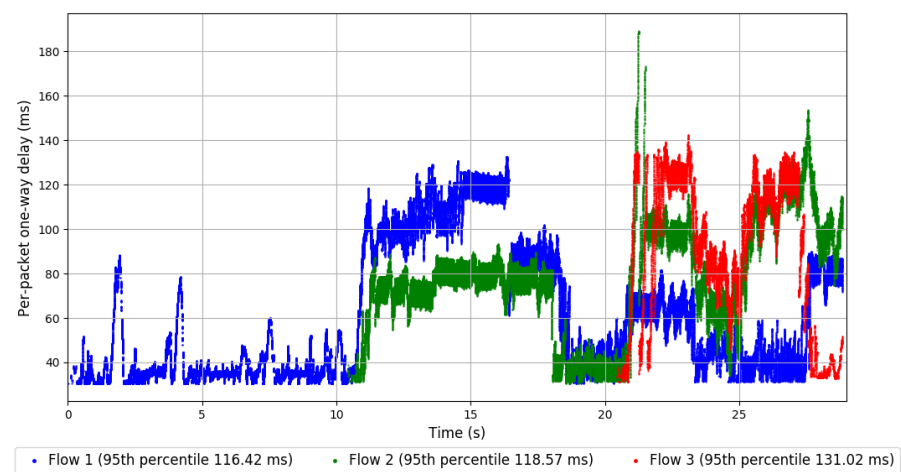
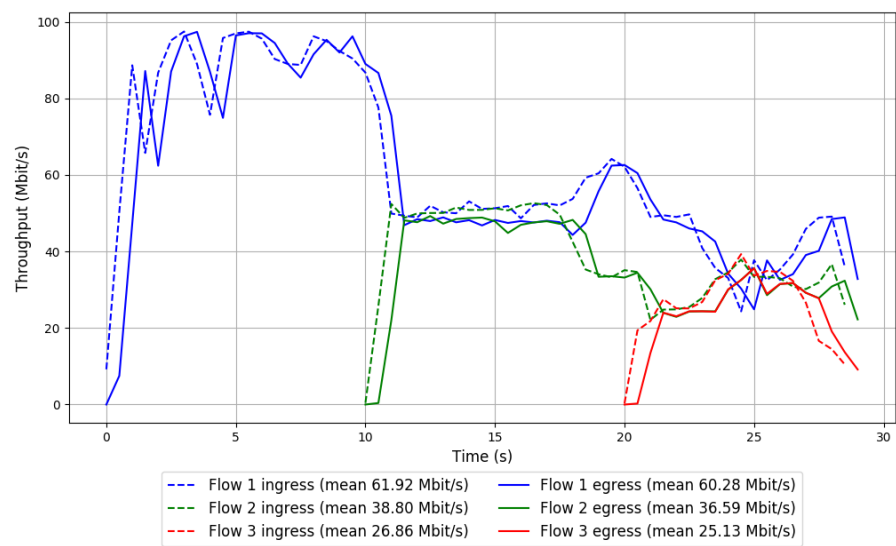
-- Flow 3:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 131.021 ms

Loss rate: 7.18%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-25 00:20:22

End at: 2019-11-25 00:20:52

Local clock offset: 2.864 ms

Remote clock offset: 5.286 ms

# Below is generated by plot.py at 2019-11-25 06:22:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 145.833 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 147.696 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 158.602 ms

Loss rate: 3.94%

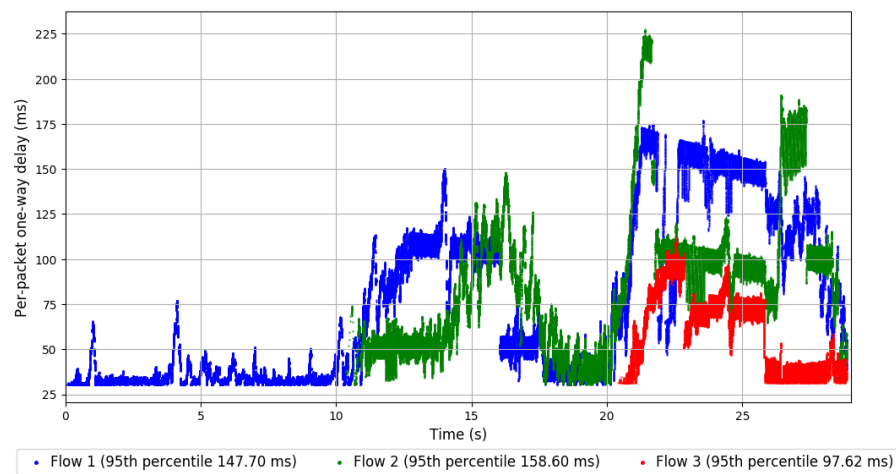
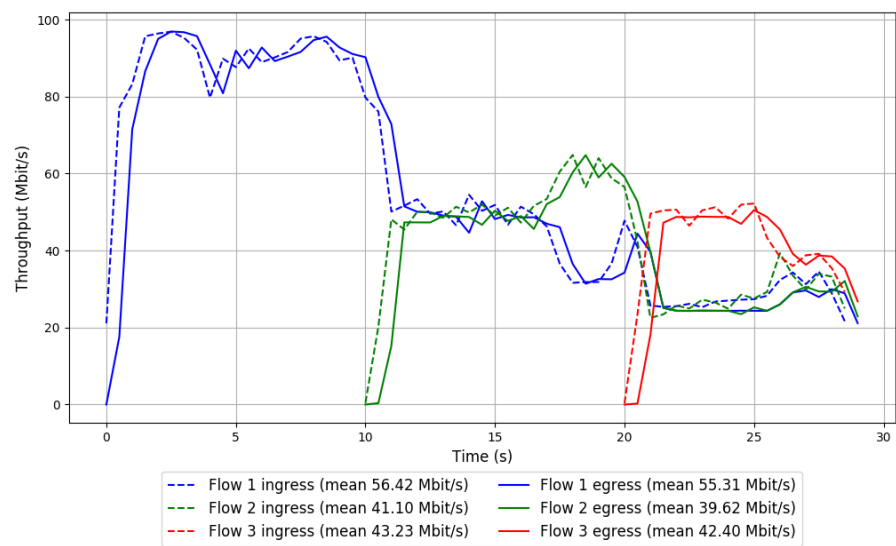
-- Flow 3:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 97.618 ms

Loss rate: 2.67%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-25 03:08:35

End at: 2019-11-25 03:09:05

Local clock offset: 3.566 ms

Remote clock offset: 3.878 ms

# Below is generated by plot.py at 2019-11-25 06:22:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.16 Mbit/s

95th percentile per-packet one-way delay: 111.656 ms

Loss rate: 2.83%

-- Flow 1:

Average throughput: 56.60 Mbit/s

95th percentile per-packet one-way delay: 115.781 ms

Loss rate: 2.01%

-- Flow 2:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 109.472 ms

Loss rate: 4.07%

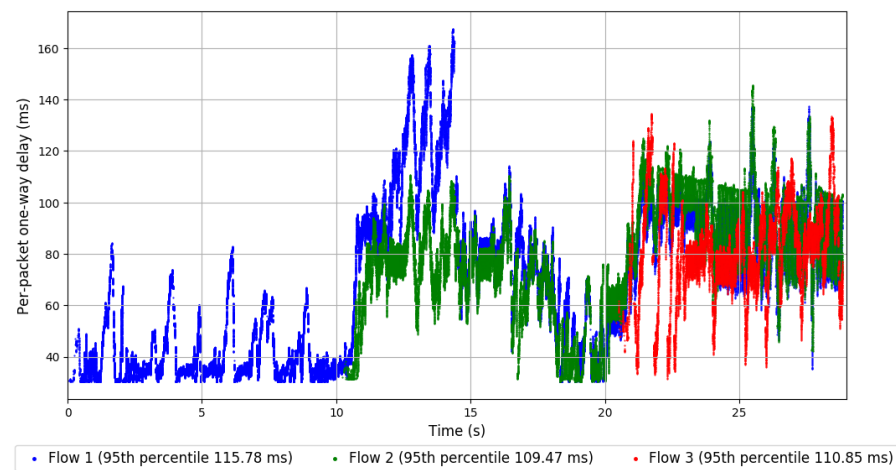
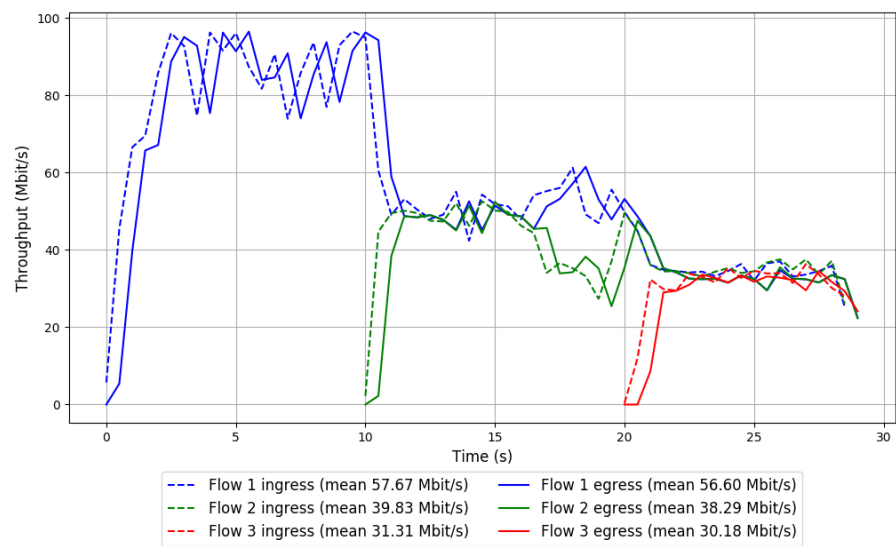
-- Flow 3:

Average throughput: 30.18 Mbit/s

95th percentile per-packet one-way delay: 110.854 ms

Loss rate: 4.54%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-25 05:44:30

End at: 2019-11-25 05:45:00

Local clock offset: 3.086 ms

Remote clock offset: 4.17 ms

# Below is generated by plot.py at 2019-11-25 06:22:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.77 Mbit/s

95th percentile per-packet one-way delay: 110.621 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 110.126 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 113.677 ms

Loss rate: 3.55%

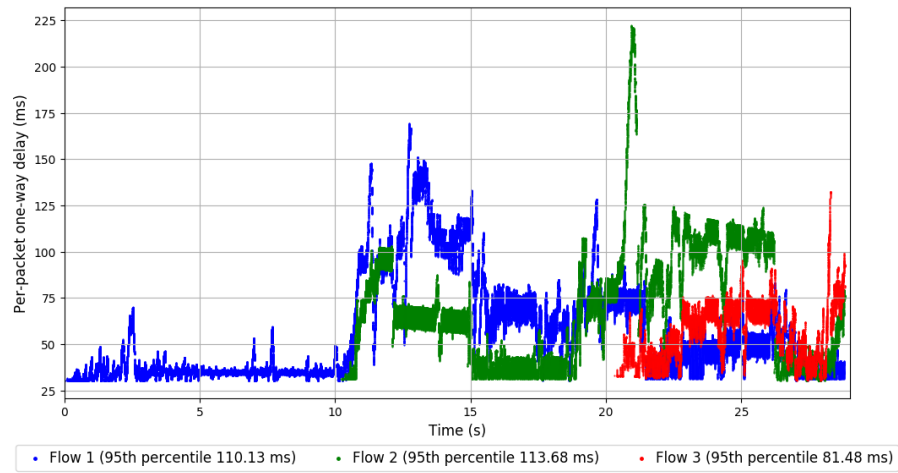
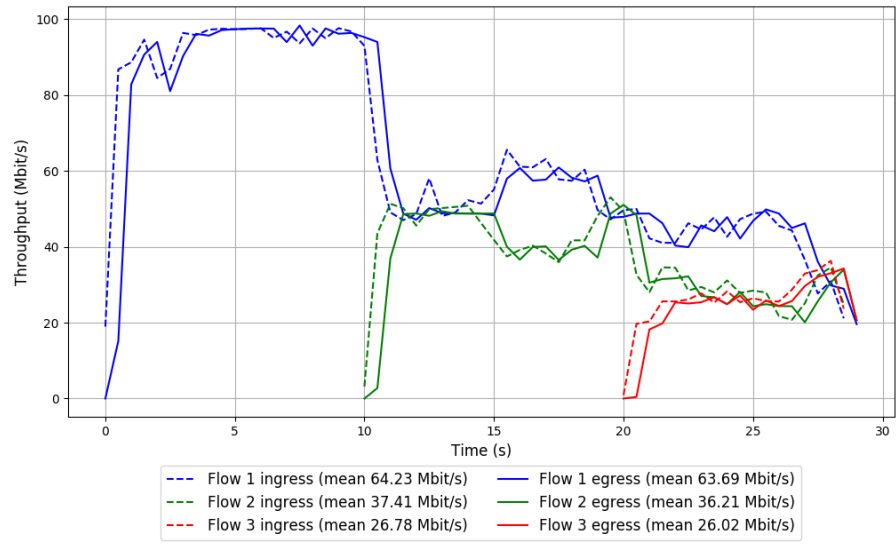
-- Flow 3:

Average throughput: 26.02 Mbit/s

95th percentile per-packet one-way delay: 81.477 ms

Loss rate: 3.51%

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





Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 15:56:19

End at: 2019-11-24 15:56:49

Local clock offset: 3.047 ms

Remote clock offset: 3.855 ms

# Below is generated by plot.py at 2019-11-25 06:22:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 143.868 ms

Loss rate: 4.13%

-- Flow 1:

Average throughput: 60.09 Mbit/s

95th percentile per-packet one-way delay: 146.860 ms

Loss rate: 5.58%

-- Flow 2:

Average throughput: 38.41 Mbit/s

95th percentile per-packet one-way delay: 71.725 ms

Loss rate: 0.73%

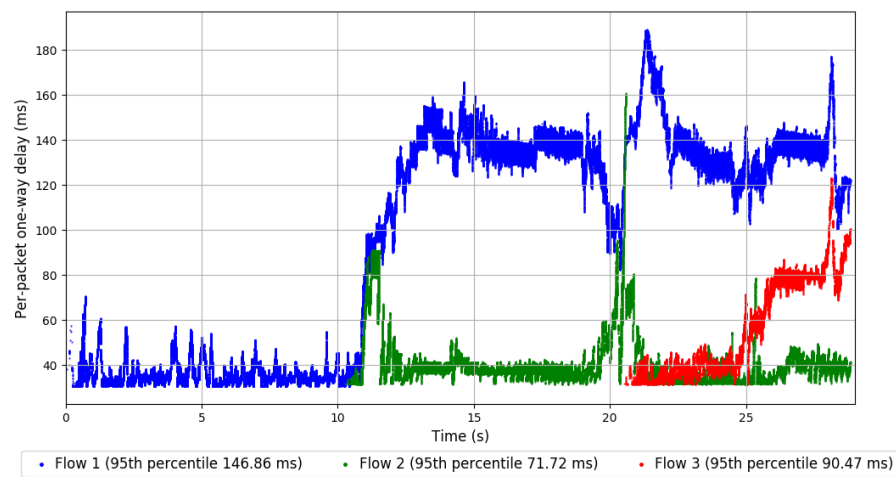
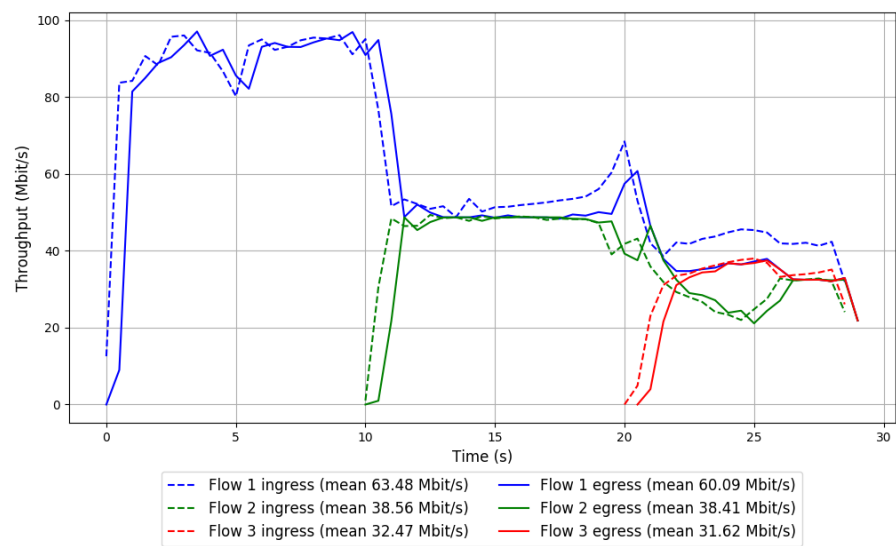
-- Flow 3:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 90.473 ms

Loss rate: 3.35%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 17:19:05

End at: 2019-11-24 17:19:35

Local clock offset: 4.009 ms

Remote clock offset: 4.092 ms

# Below is generated by plot.py at 2019-11-25 06:23:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 146.333 ms

Loss rate: 3.90%

-- Flow 1:

Average throughput: 58.58 Mbit/s

95th percentile per-packet one-way delay: 149.395 ms

Loss rate: 5.87%

-- Flow 2:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 51.775 ms

Loss rate: 0.43%

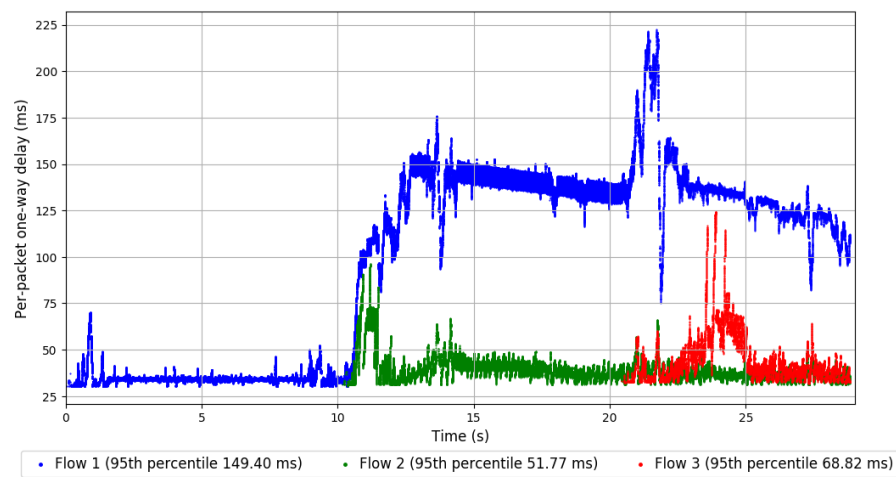
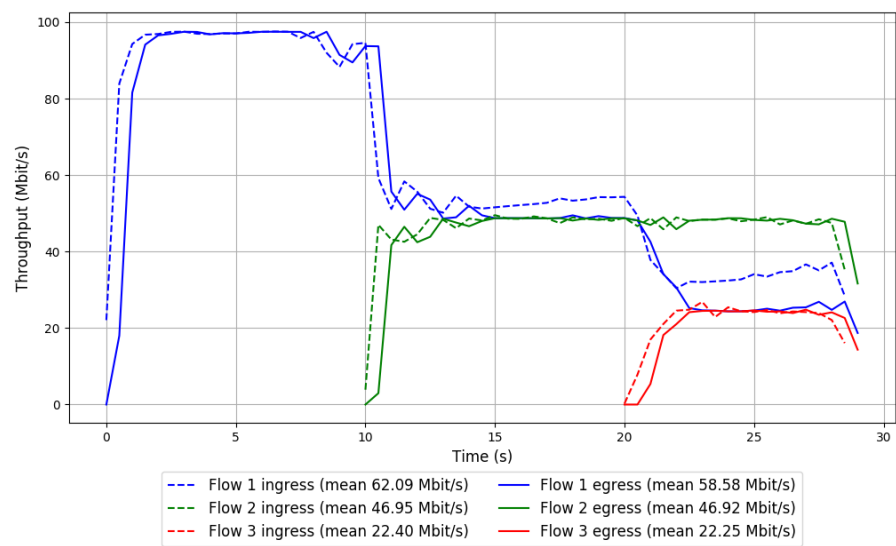
-- Flow 3:

Average throughput: 22.25 Mbit/s

95th percentile per-packet one-way delay: 68.822 ms

Loss rate: 1.43%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 22:22:38

End at: 2019-11-24 22:23:08

Local clock offset: 3.066 ms

Remote clock offset: 4.611 ms

# Below is generated by plot.py at 2019-11-25 06:23:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 146.641 ms

Loss rate: 4.23%

-- Flow 1:

Average throughput: 59.74 Mbit/s

95th percentile per-packet one-way delay: 151.555 ms

Loss rate: 5.82%

-- Flow 2:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 68.690 ms

Loss rate: 0.48%

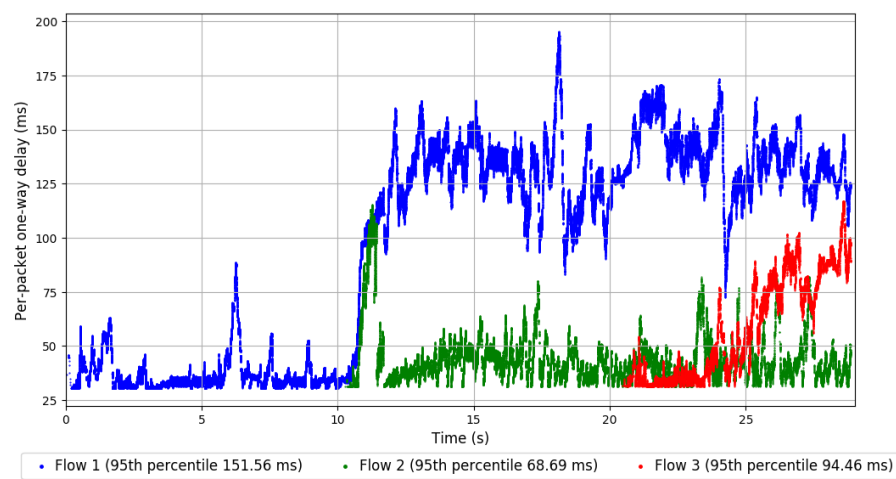
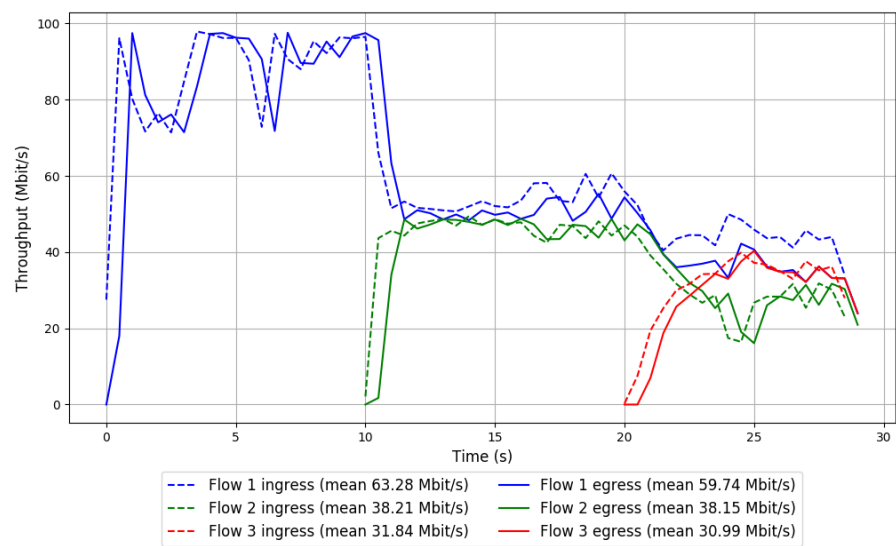
-- Flow 3:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 94.459 ms

Loss rate: 3.40%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-25 01:07:26

End at: 2019-11-25 01:07:56

Local clock offset: 3.113 ms

Remote clock offset: 5.783 ms

# Below is generated by plot.py at 2019-11-25 06:23:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.11 Mbit/s

95th percentile per-packet one-way delay: 151.970 ms

Loss rate: 6.94%

-- Flow 1:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 148.510 ms

Loss rate: 5.77%

-- Flow 2:

Average throughput: 37.76 Mbit/s

95th percentile per-packet one-way delay: 165.688 ms

Loss rate: 12.37%

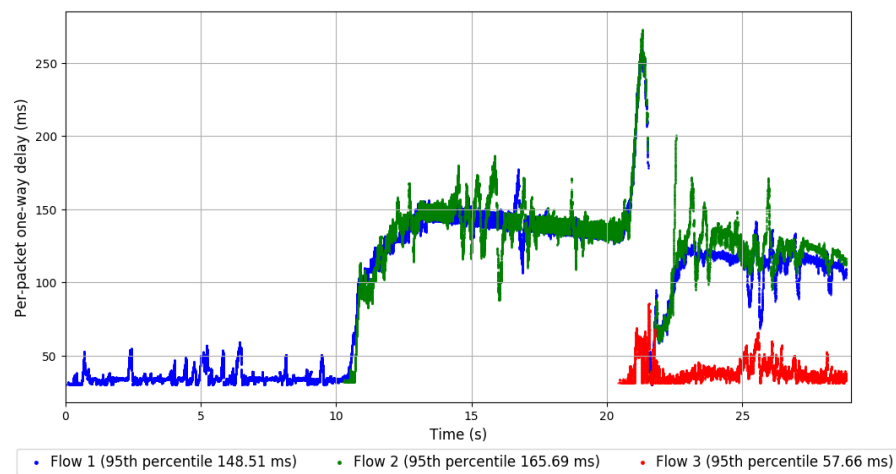
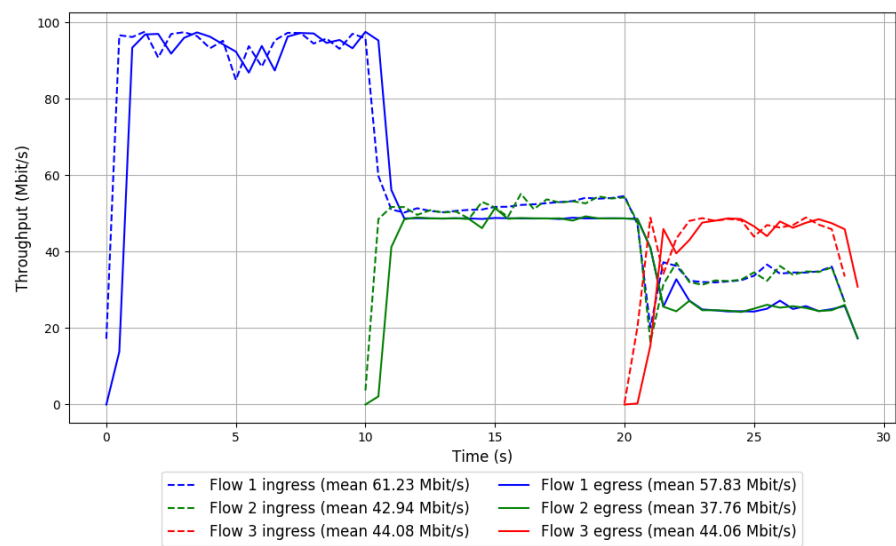
-- Flow 3:

Average throughput: 44.06 Mbit/s

95th percentile per-packet one-way delay: 57.659 ms

Loss rate: 0.82%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-25 04:54:21

End at: 2019-11-25 04:54:51

Local clock offset: 3.948 ms

Remote clock offset: 3.695 ms

# Below is generated by plot.py at 2019-11-25 06:23:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 144.298 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 47.52 Mbit/s

95th percentile per-packet one-way delay: 99.853 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 154.731 ms

Loss rate: 3.17%

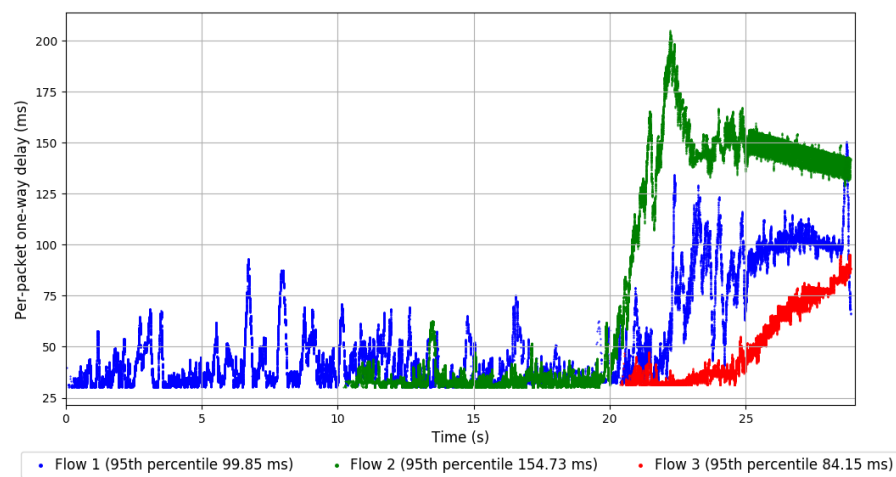
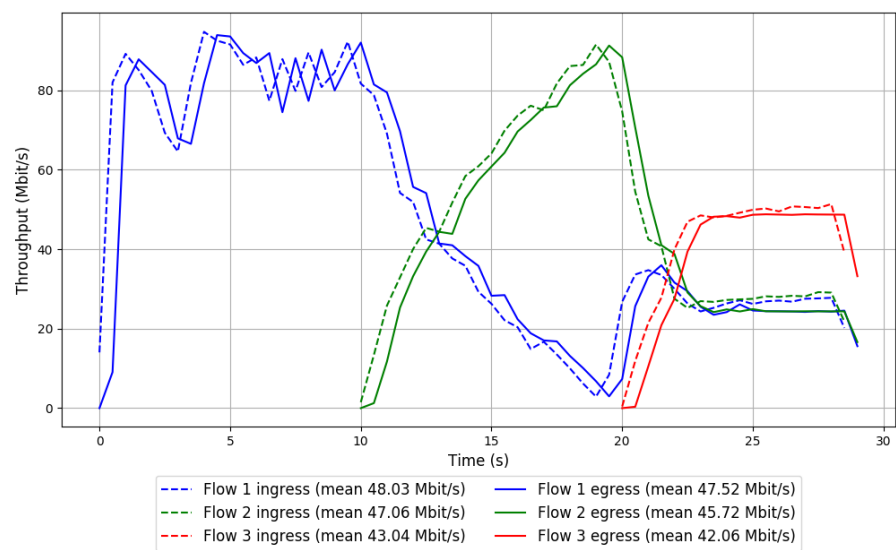
-- Flow 3:

Average throughput: 42.06 Mbit/s

95th percentile per-packet one-way delay: 84.152 ms

Loss rate: 3.01%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 16:58:58

End at: 2019-11-24 16:59:28

Local clock offset: 3.501 ms

Remote clock offset: 4.031 ms

# Below is generated by plot.py at 2019-11-25 06:23:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 158.522 ms

Loss rate: 3.86%

-- Flow 1:

Average throughput: 60.72 Mbit/s

95th percentile per-packet one-way delay: 159.799 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 105.329 ms

Loss rate: 6.89%

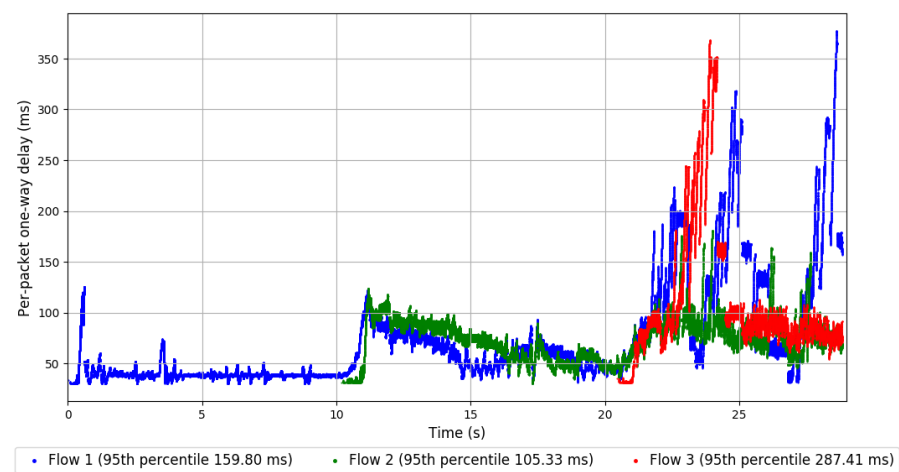
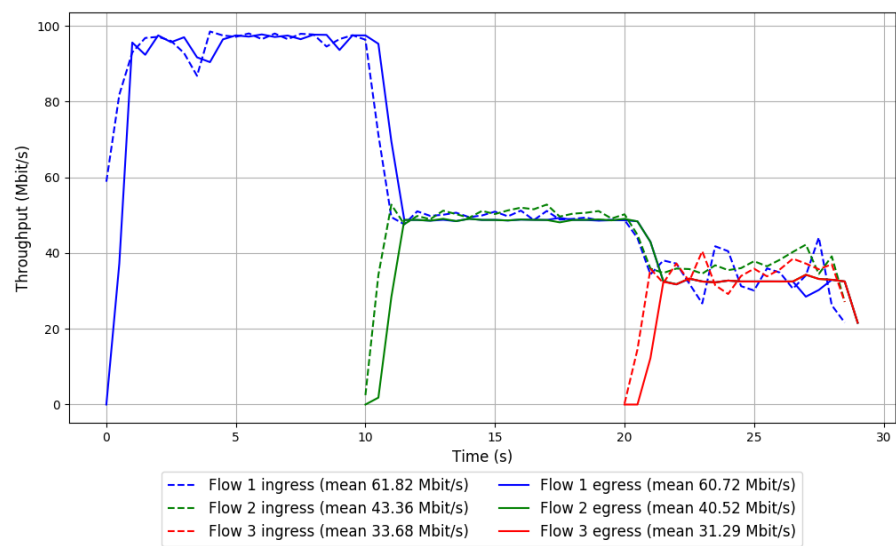
-- Flow 3:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 287.414 ms

Loss rate: 7.83%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 19:27:39

End at: 2019-11-24 19:28:09

Local clock offset: 3.421 ms

Remote clock offset: 7.04 ms

# Below is generated by plot.py at 2019-11-25 06:23:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 188.924 ms

Loss rate: 3.37%

-- Flow 1:

Average throughput: 58.26 Mbit/s

95th percentile per-packet one-way delay: 134.218 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 174.723 ms

Loss rate: 4.29%

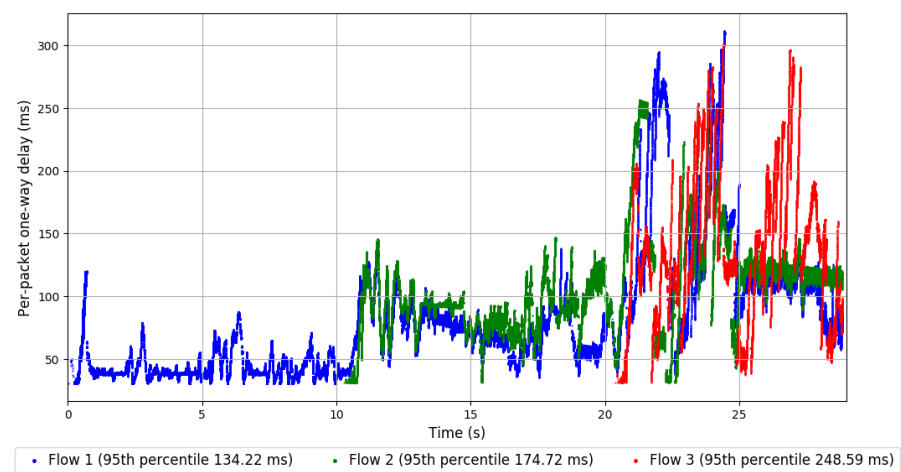
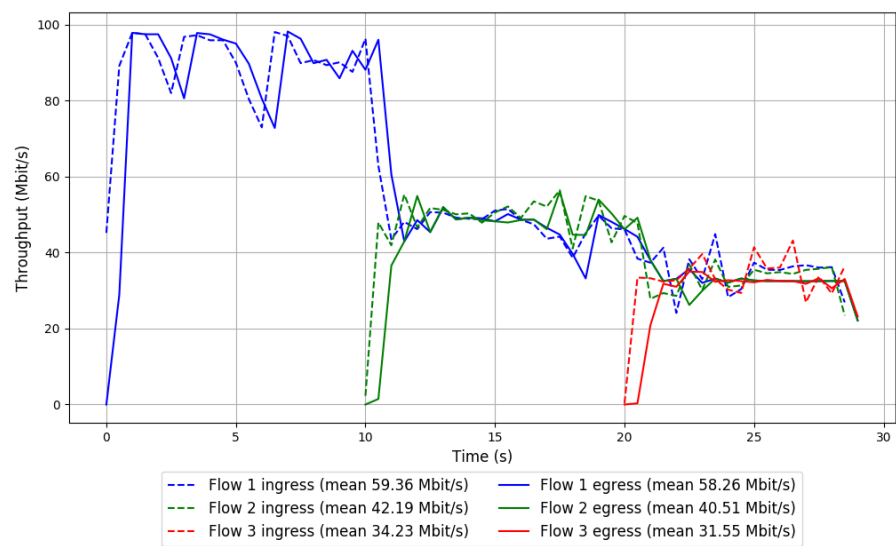
-- Flow 3:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 248.593 ms

Loss rate: 8.51%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-25 00:40:19

End at: 2019-11-25 00:40:49

Local clock offset: 2.448 ms

Remote clock offset: 5.324 ms

# Below is generated by plot.py at 2019-11-25 06:24:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 139.452 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 65.22 Mbit/s

95th percentile per-packet one-way delay: 83.335 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 37.04 Mbit/s

95th percentile per-packet one-way delay: 183.017 ms

Loss rate: 7.63%

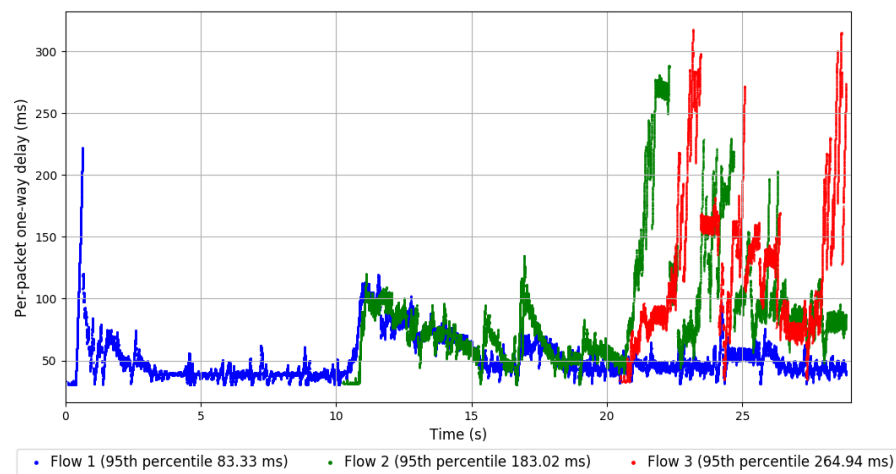
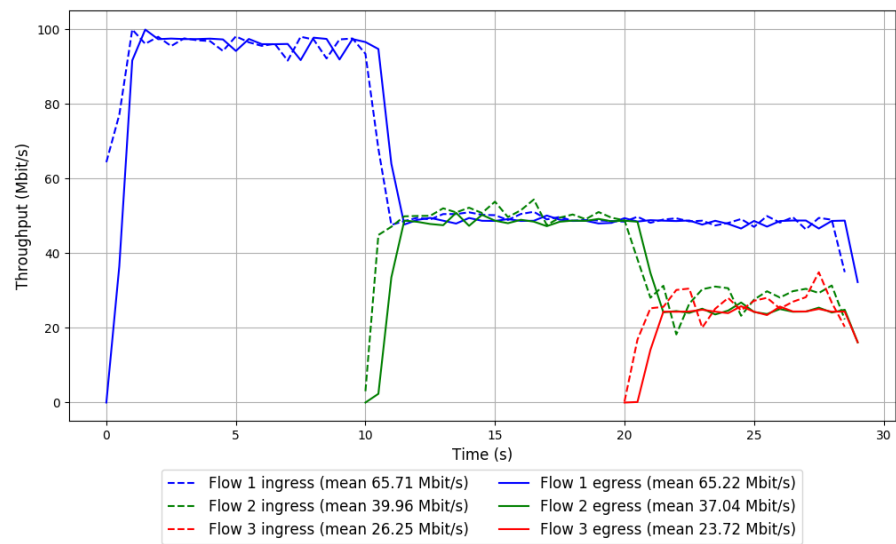
-- Flow 3:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 264.944 ms

Loss rate: 10.32%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-25 03:59:21

End at: 2019-11-25 03:59:51

Local clock offset: 3.535 ms

Remote clock offset: 6.58 ms

# Below is generated by plot.py at 2019-11-25 06:24:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.41 Mbit/s

95th percentile per-packet one-way delay: 155.332 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 62.36 Mbit/s

95th percentile per-packet one-way delay: 89.331 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 219.534 ms

Loss rate: 5.60%

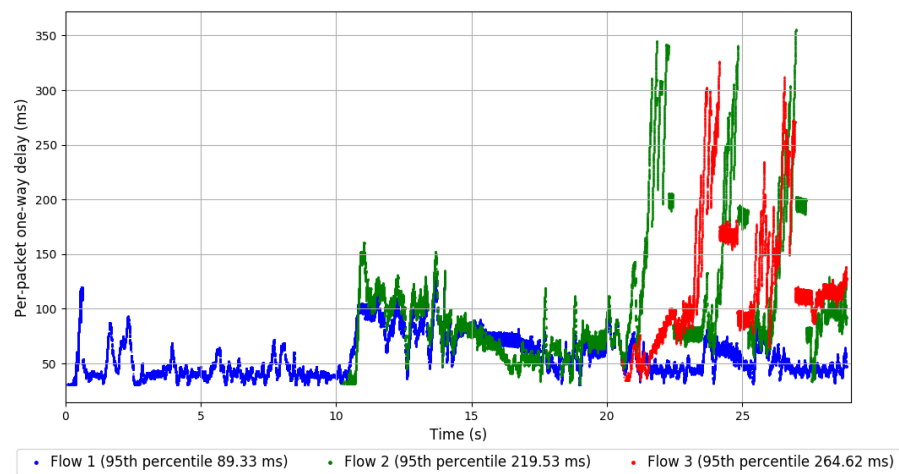
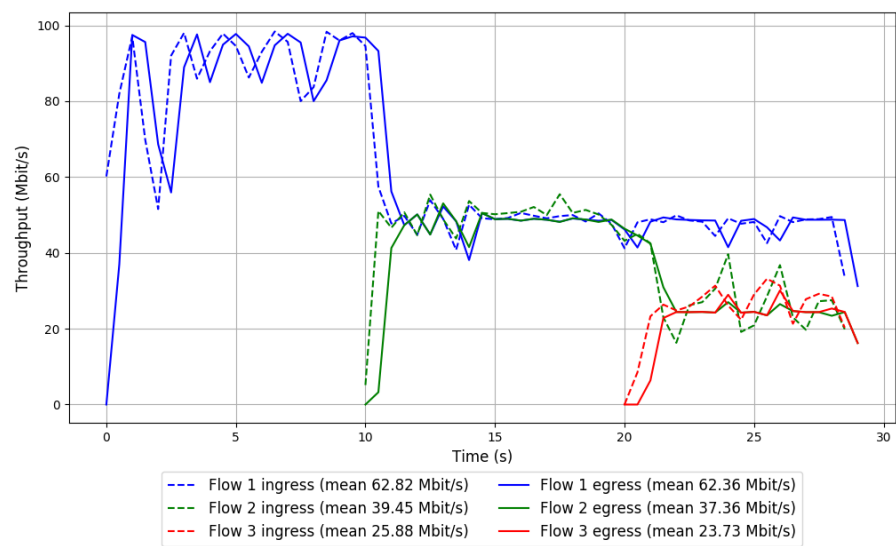
-- Flow 3:

Average throughput: 23.73 Mbit/s

95th percentile per-packet one-way delay: 264.616 ms

Loss rate: 9.24%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-25 06:00:28

End at: 2019-11-25 06:00:58

Local clock offset: 3.118 ms

Remote clock offset: 3.717 ms

# Below is generated by plot.py at 2019-11-25 06:24:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 167.179 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 149.382 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 102.314 ms

Loss rate: 2.35%

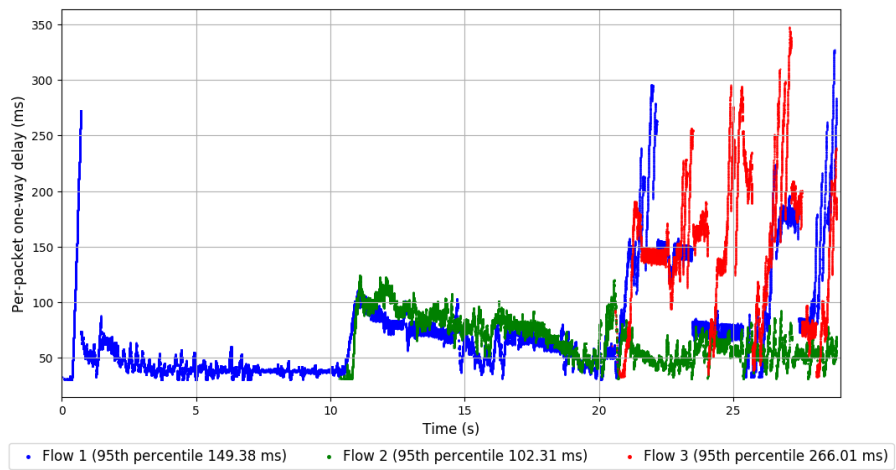
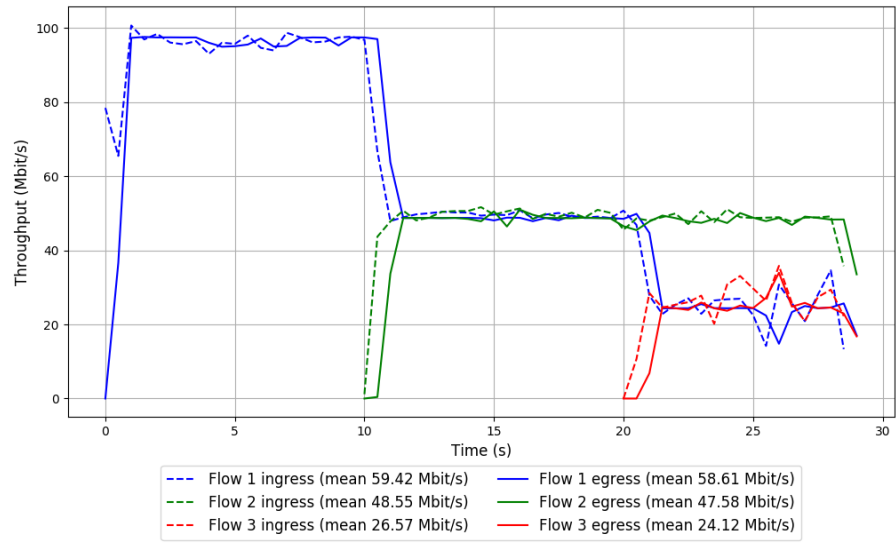
-- Flow 3:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 266.007 ms

Loss rate: 9.16%

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



Run 1: Statistics of LEDBAT

Start at: 2019-11-24 16:23:58

End at: 2019-11-24 16:24:28

Local clock offset: 3.4 ms

Remote clock offset: 4.273 ms

# Below is generated by plot.py at 2019-11-25 06:24:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 40.401 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 40.697 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 34.74 Mbit/s

95th percentile per-packet one-way delay: 39.732 ms

Loss rate: 0.49%

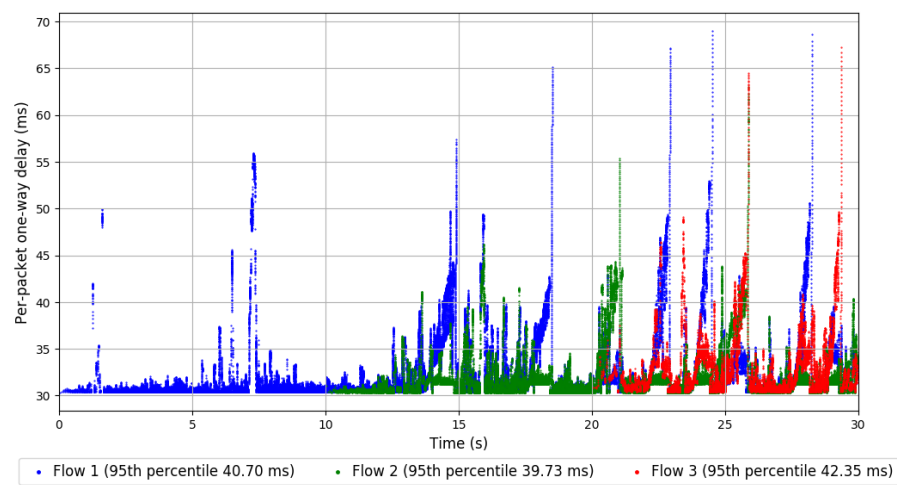
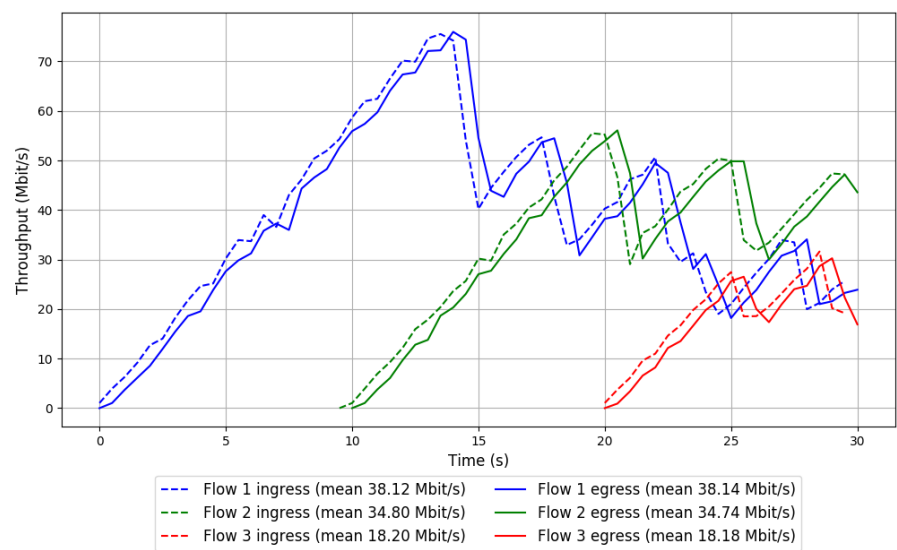
-- Flow 3:

Average throughput: 18.18 Mbit/s

95th percentile per-packet one-way delay: 42.354 ms

Loss rate: 0.76%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-11-24 17:49:56

End at: 2019-11-24 17:50:26

Local clock offset: 4.496 ms

Remote clock offset: 4.282 ms

# Below is generated by plot.py at 2019-11-25 06:24:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 51.129 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 40.02 Mbit/s

95th percentile per-packet one-way delay: 51.247 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 28.26 Mbit/s

95th percentile per-packet one-way delay: 48.093 ms

Loss rate: 0.21%

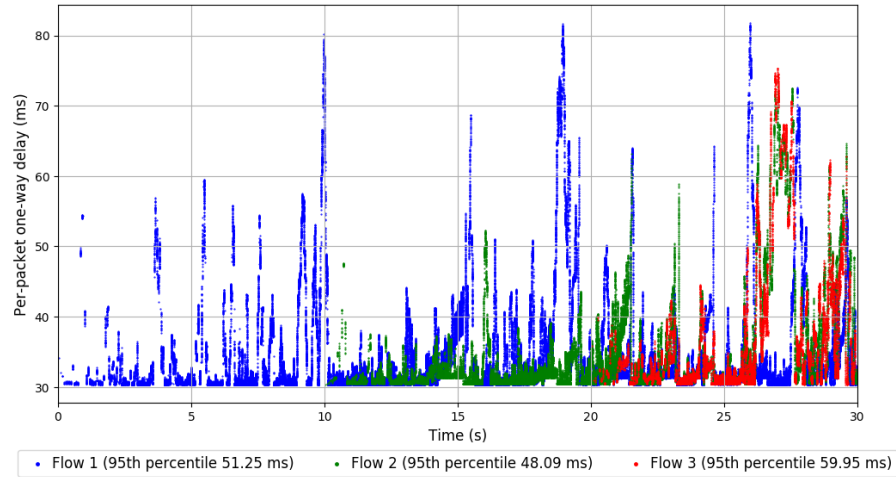
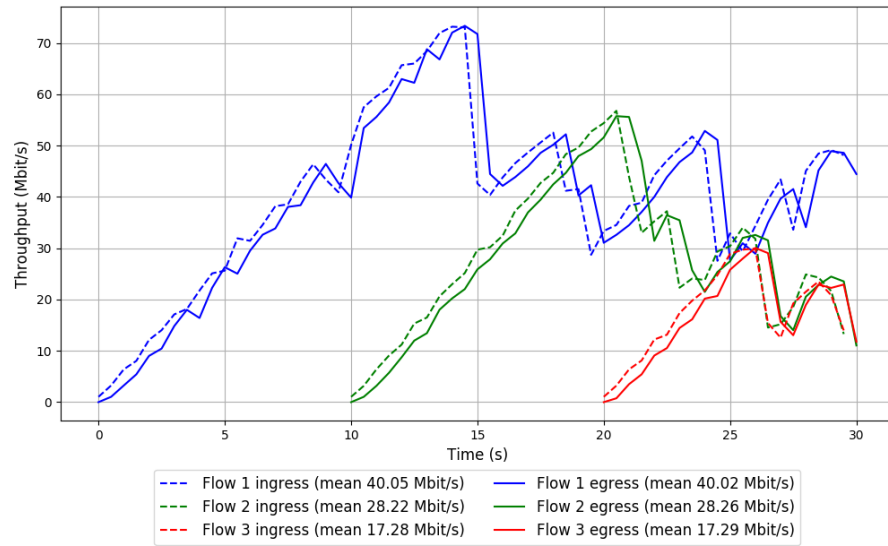
-- Flow 3:

Average throughput: 17.29 Mbit/s

95th percentile per-packet one-way delay: 59.945 ms

Loss rate: 0.65%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-11-24 23:56:39

End at: 2019-11-24 23:57:09

Local clock offset: 3.716 ms

Remote clock offset: 4.727 ms

# Below is generated by plot.py at 2019-11-25 06:24:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 45.757 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 44.355 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 27.95 Mbit/s

95th percentile per-packet one-way delay: 42.670 ms

Loss rate: 0.26%

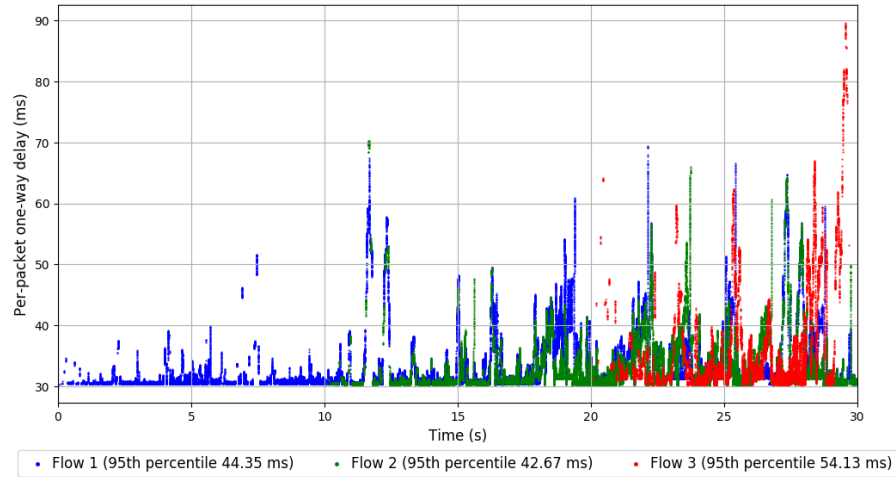
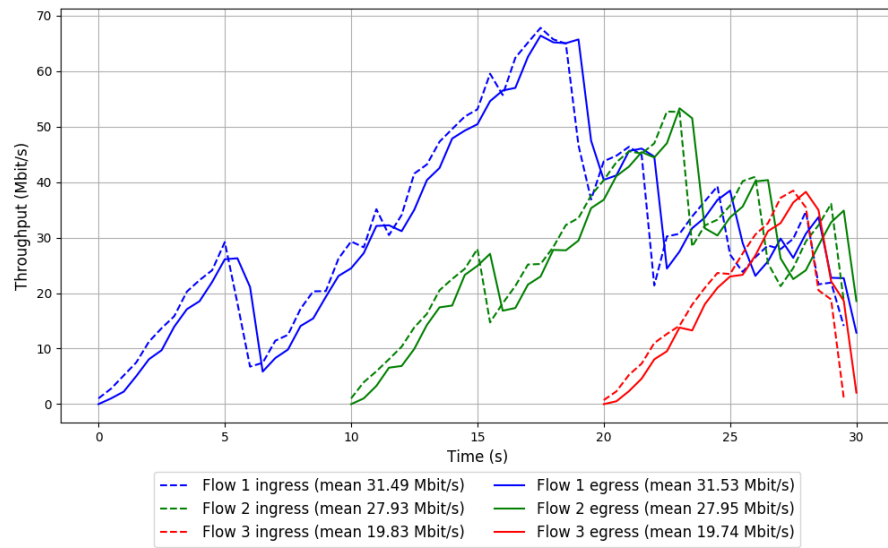
-- Flow 3:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 54.130 ms

Loss rate: 0.23%

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



Run 4: Statistics of LEDBAT

Start at: 2019-11-25 02:09:15

End at: 2019-11-25 02:09:45

Local clock offset: 4.665 ms

Remote clock offset: 3.21 ms

# Below is generated by plot.py at 2019-11-25 06:24:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.57 Mbit/s

95th percentile per-packet one-way delay: 48.774 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 43.45 Mbit/s

95th percentile per-packet one-way delay: 41.822 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.45%

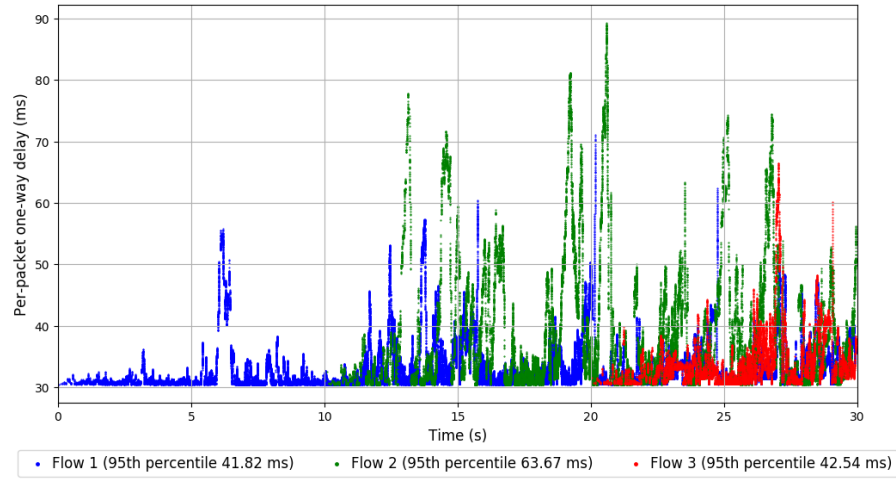
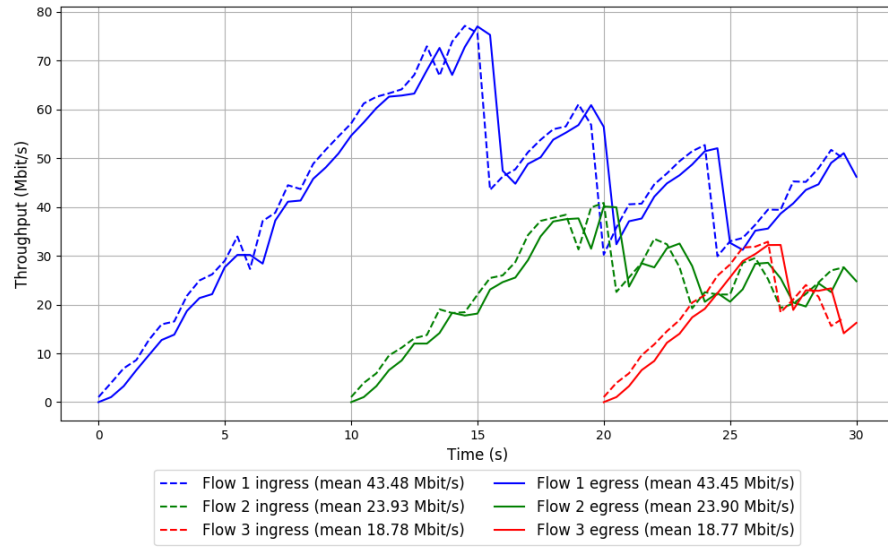
-- Flow 3:

Average throughput: 18.77 Mbit/s

95th percentile per-packet one-way delay: 42.536 ms

Loss rate: 0.68%

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



Run 5: Statistics of LEDBAT

Start at: 2019-11-25 05:26:36

End at: 2019-11-25 05:27:06

Local clock offset: 3.15 ms

Remote clock offset: 3.978 ms

# Below is generated by plot.py at 2019-11-25 06:24:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.32 Mbit/s

95th percentile per-packet one-way delay: 41.768 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 41.227 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 29.74 Mbit/s

95th percentile per-packet one-way delay: 43.128 ms

Loss rate: 0.33%

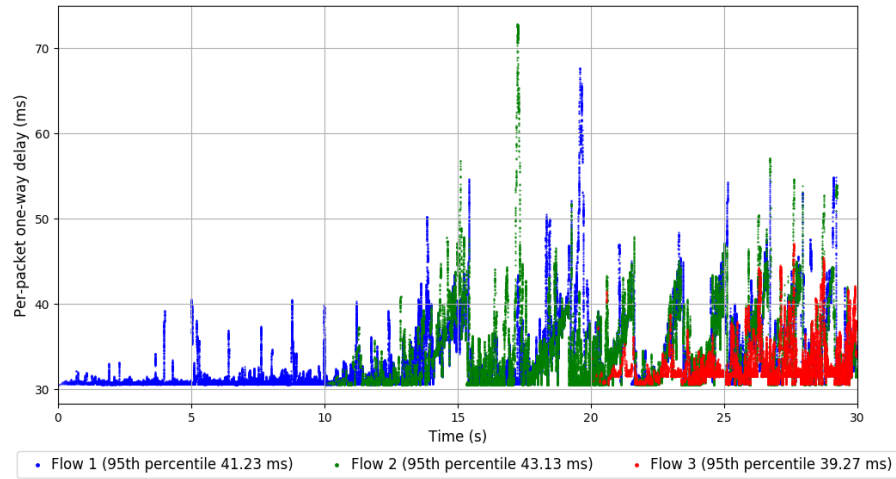
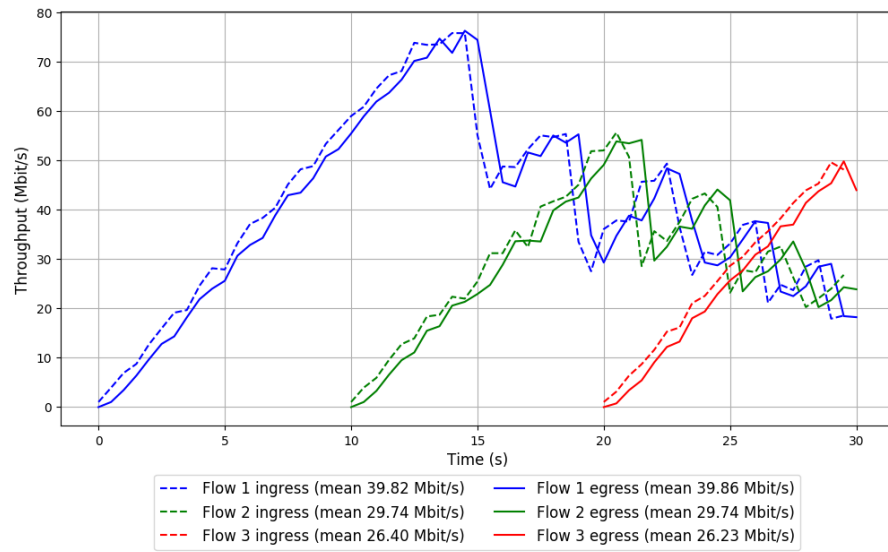
-- Flow 3:

Average throughput: 26.23 Mbit/s

95th percentile per-packet one-way delay: 39.271 ms

Loss rate: 1.33%

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 15:52:37

End at: 2019-11-24 15:53:07

Local clock offset: 3.102 ms

Remote clock offset: 3.752 ms

# Below is generated by plot.py at 2019-11-25 06:25:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.35 Mbit/s

95th percentile per-packet one-way delay: 46.747 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 44.415 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 44.85 Mbit/s

95th percentile per-packet one-way delay: 45.141 ms

Loss rate: 0.34%

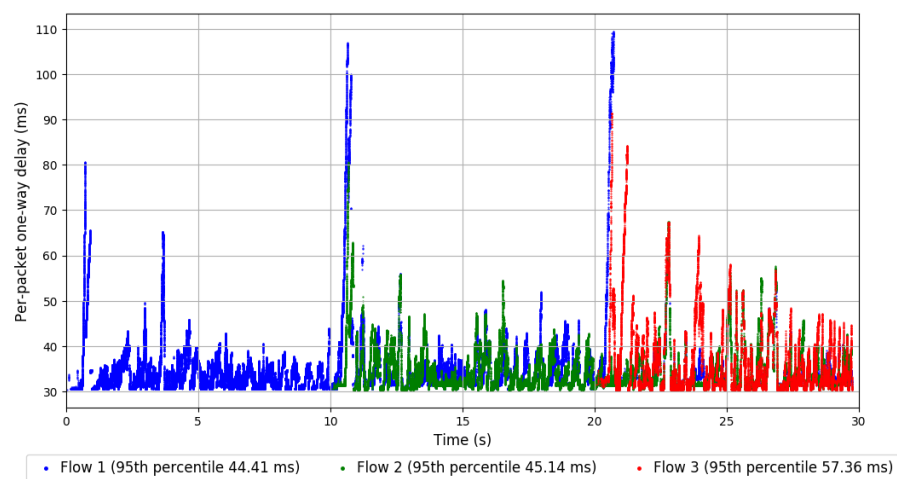
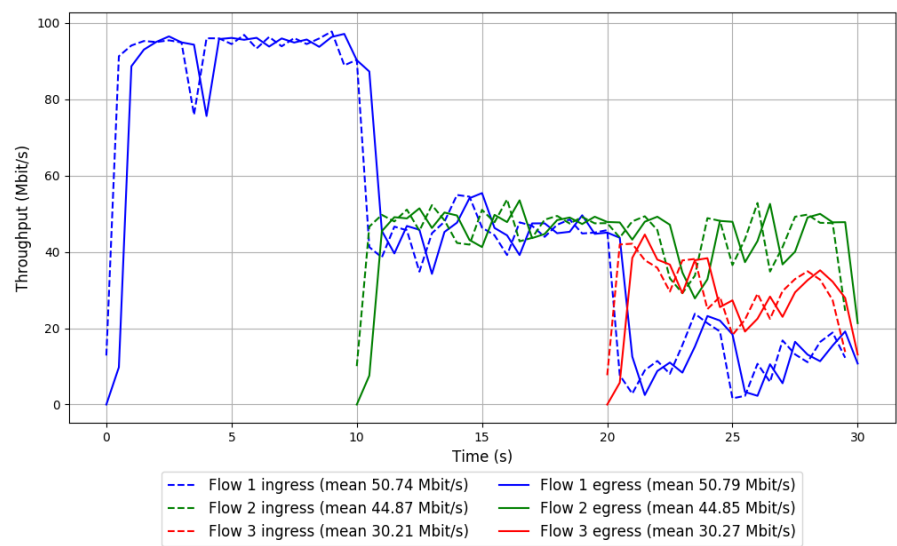
-- Flow 3:

Average throughput: 30.27 Mbit/s

95th percentile per-packet one-way delay: 57.364 ms

Loss rate: 0.47%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 17:15:34

End at: 2019-11-24 17:16:04

Local clock offset: 3.836 ms

Remote clock offset: 4.148 ms

# Below is generated by plot.py at 2019-11-25 06:25:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.16 Mbit/s

95th percentile per-packet one-way delay: 52.134 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 48.274 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 42.20 Mbit/s

95th percentile per-packet one-way delay: 55.597 ms

Loss rate: 0.47%

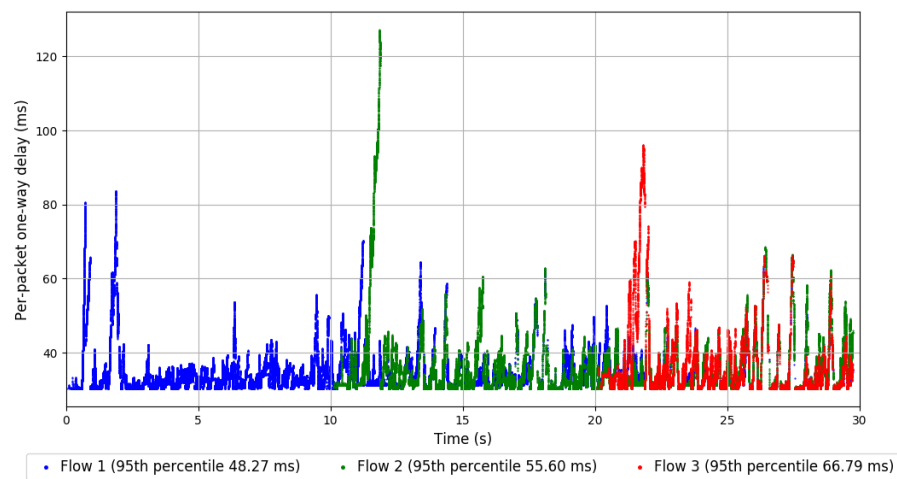
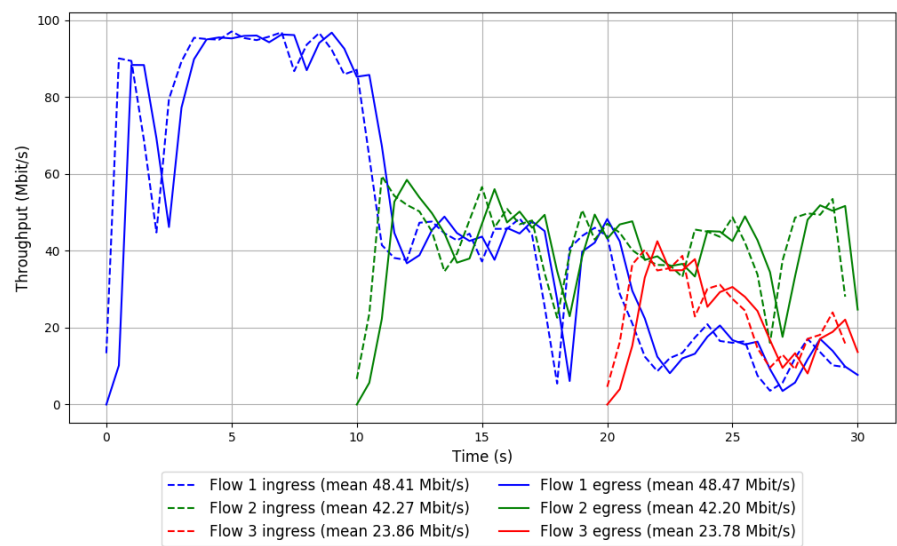
-- Flow 3:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 66.790 ms

Loss rate: 1.00%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 22:05:24

End at: 2019-11-24 22:05:54

Local clock offset: 3.032 ms

Remote clock offset: 4.184 ms

# Below is generated by plot.py at 2019-11-25 06:25:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 62.131 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 62.281 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 22.69 Mbit/s

95th percentile per-packet one-way delay: 58.550 ms

Loss rate: 0.77%

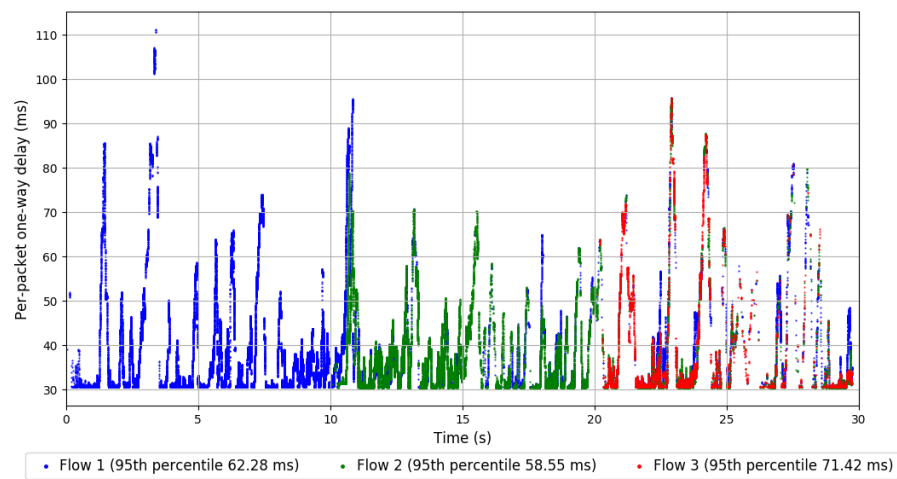
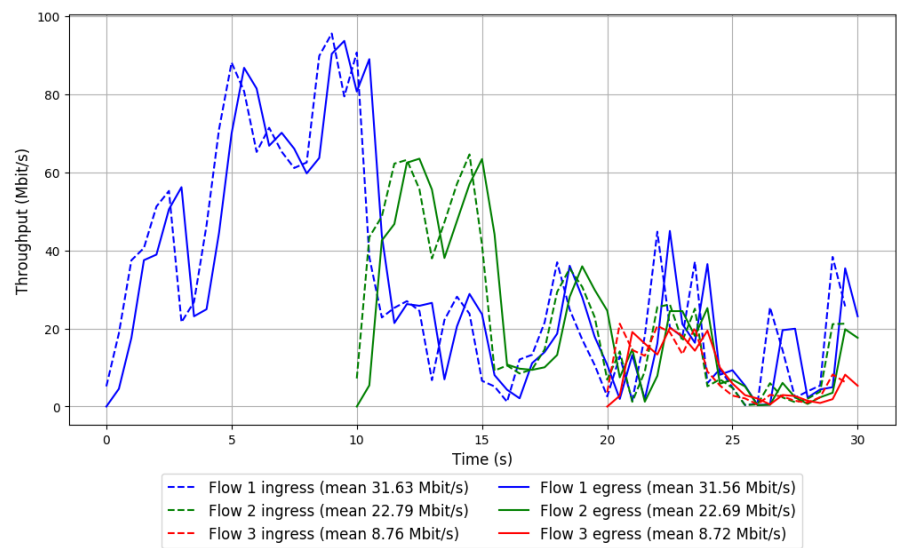
-- Flow 3:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 71.419 ms

Loss rate: 1.36%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-25 01:03:45

End at: 2019-11-25 01:04:15

Local clock offset: 3.098 ms

Remote clock offset: 5.599 ms

# Below is generated by plot.py at 2019-11-25 06:25:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.69 Mbit/s

95th percentile per-packet one-way delay: 50.248 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 53.09 Mbit/s

95th percentile per-packet one-way delay: 41.978 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 35.43 Mbit/s

95th percentile per-packet one-way delay: 53.053 ms

Loss rate: 0.29%

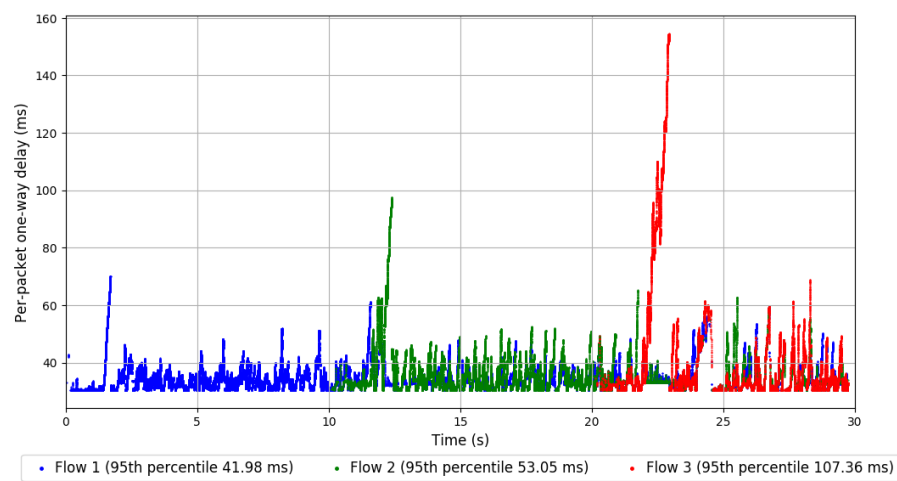
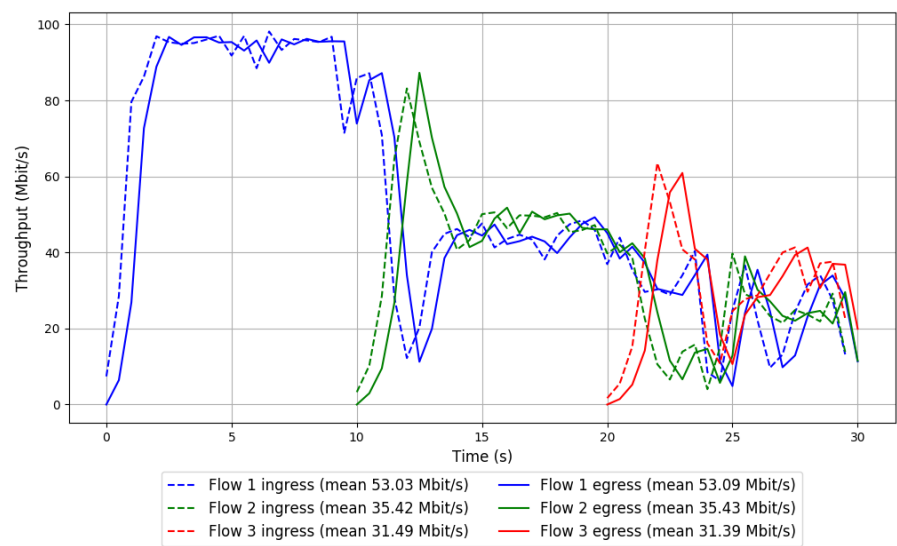
-- Flow 3:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 107.358 ms

Loss rate: 1.04%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-25 04:49:58

End at: 2019-11-25 04:50:28

Local clock offset: 3.866 ms

Remote clock offset: 3.544 ms

# Below is generated by plot.py at 2019-11-25 06:25:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 45.974 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 58.07 Mbit/s

95th percentile per-packet one-way delay: 43.539 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 41.23 Mbit/s

95th percentile per-packet one-way delay: 47.343 ms

Loss rate: 0.41%

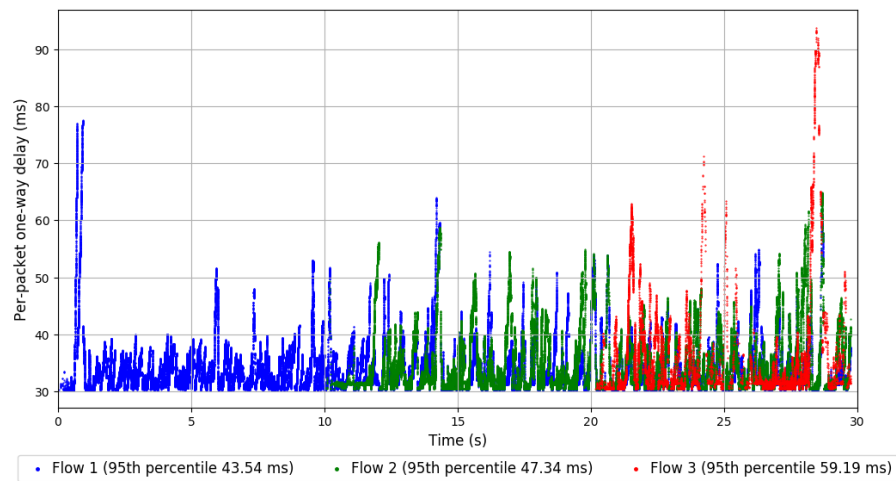
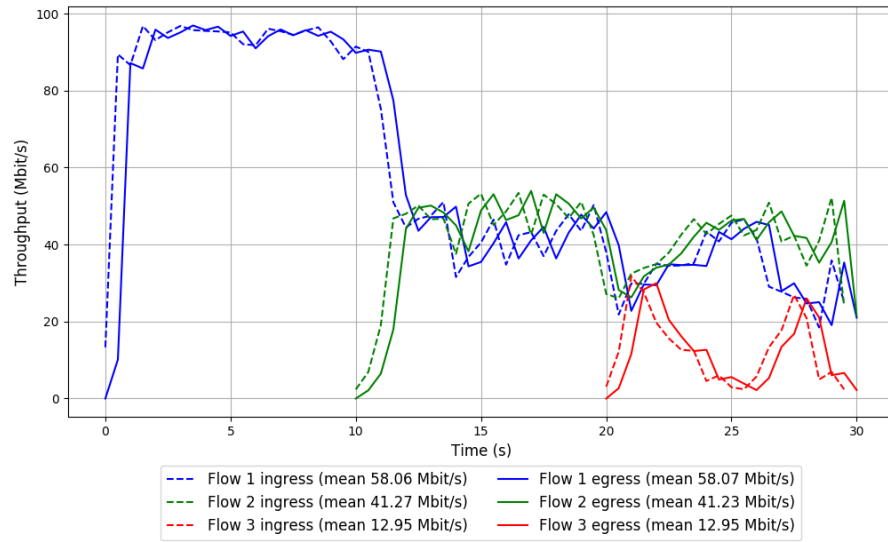
-- Flow 3:

Average throughput: 12.95 Mbit/s

95th percentile per-packet one-way delay: 59.189 ms

Loss rate: 0.63%

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





Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 15:50:21

End at: 2019-11-24 15:50:51

Local clock offset: 3.116 ms

Remote clock offset: 3.72 ms

# Below is generated by plot.py at 2019-11-25 06:25:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.42 Mbit/s

95th percentile per-packet one-way delay: 166.294 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 168.167 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 175.500 ms

Loss rate: 1.14%

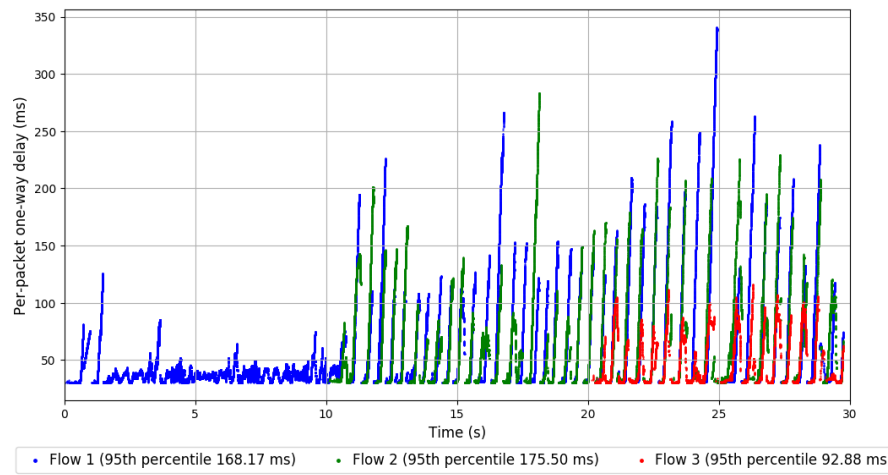
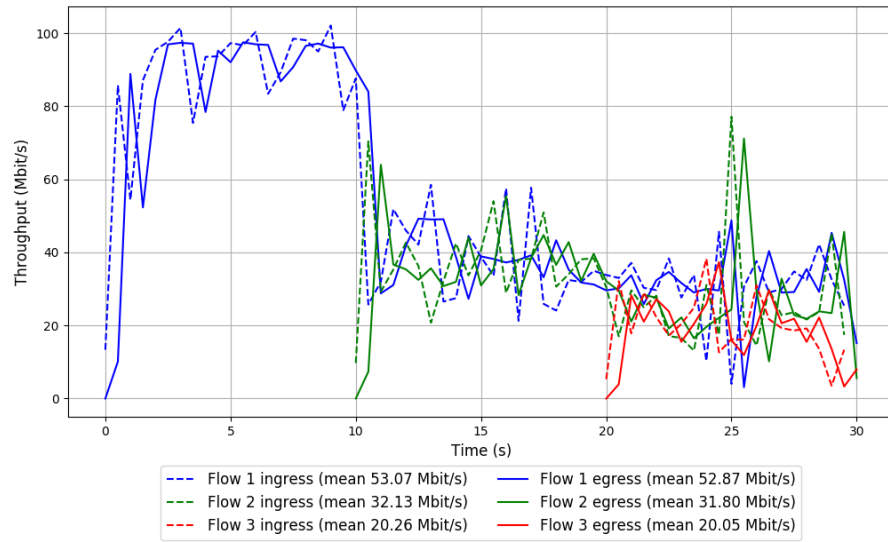
-- Flow 3:

Average throughput: 20.05 Mbit/s

95th percentile per-packet one-way delay: 92.881 ms

Loss rate: 1.71%

# Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 17:12:57

End at: 2019-11-24 17:13:27

Local clock offset: 3.723 ms

Remote clock offset: 4.088 ms

# Below is generated by plot.py at 2019-11-25 06:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.64 Mbit/s

95th percentile per-packet one-way delay: 134.327 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 47.59 Mbit/s

95th percentile per-packet one-way delay: 146.578 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 117.834 ms

Loss rate: 0.27%

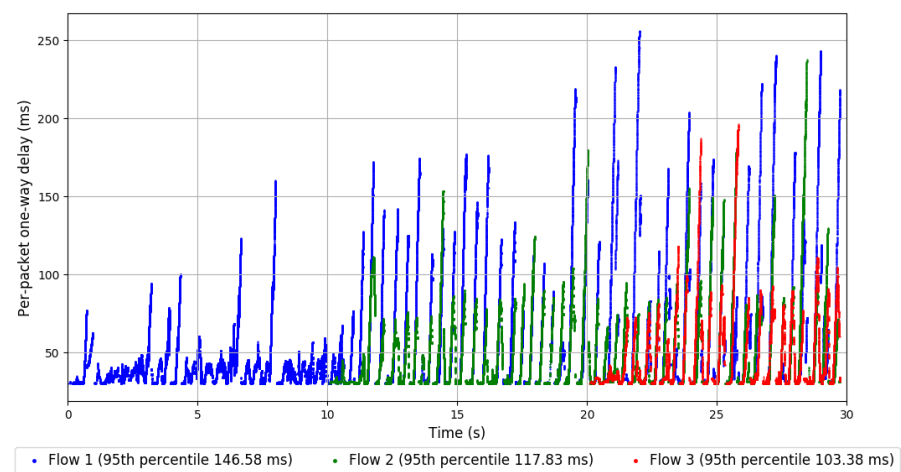
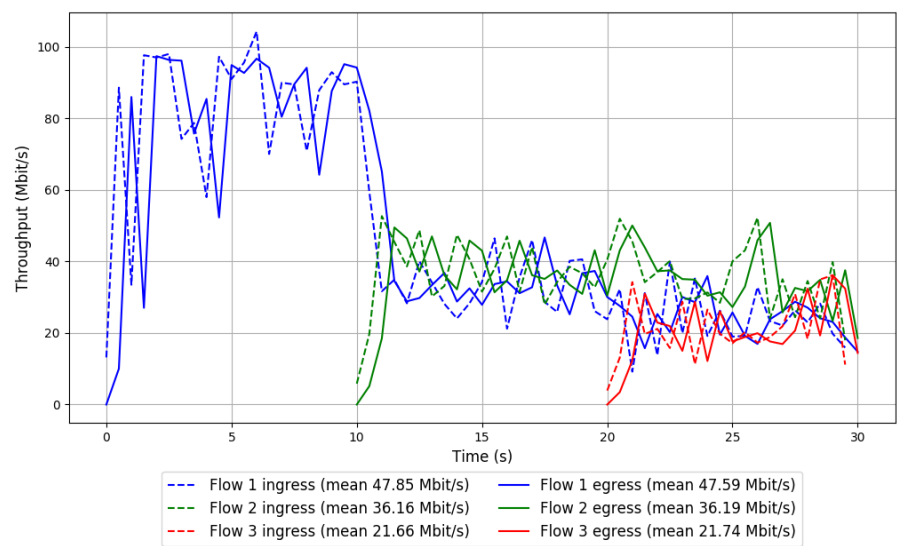
-- Flow 3:

Average throughput: 21.74 Mbit/s

95th percentile per-packet one-way delay: 103.378 ms

Loss rate: 0.31%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 21:53:08

End at: 2019-11-24 21:53:38

Local clock offset: 2.916 ms

Remote clock offset: 5.6 ms

# Below is generated by plot.py at 2019-11-25 06:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.60 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 38.74 Mbit/s

95th percentile per-packet one-way delay: 138.219 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 26.97 Mbit/s

95th percentile per-packet one-way delay: 161.828 ms

Loss rate: 0.38%

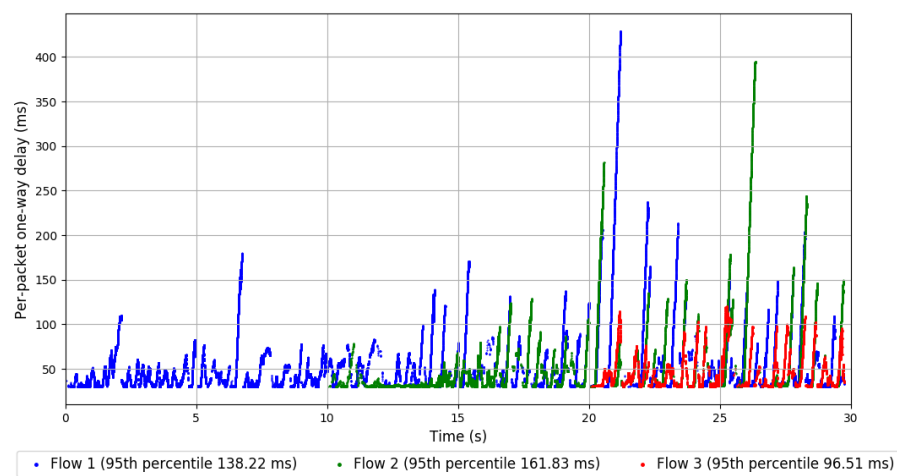
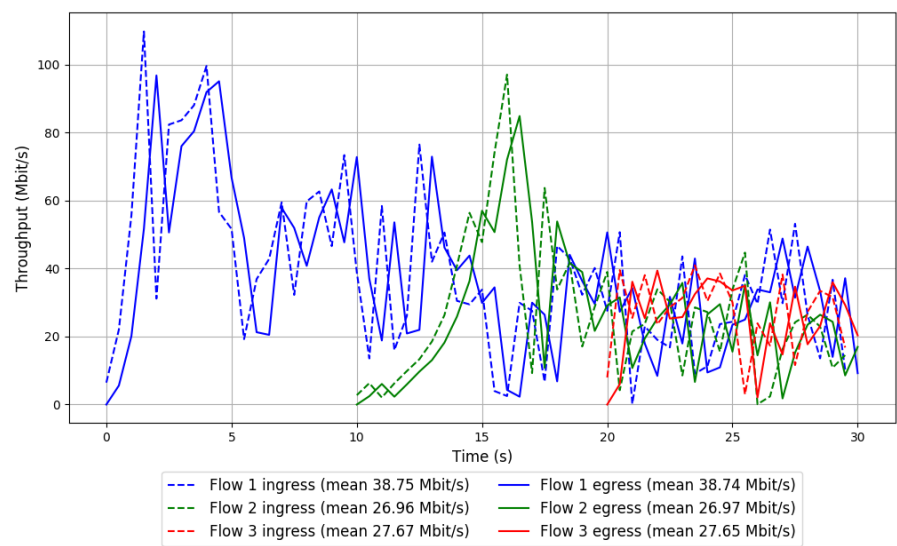
-- Flow 3:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 96.511 ms

Loss rate: 0.72%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-25 01:01:04

End at: 2019-11-25 01:01:34

Local clock offset: 3.094 ms

Remote clock offset: 5.747 ms

# Below is generated by plot.py at 2019-11-25 06:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 137.637 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 140.617 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 141.254 ms

Loss rate: 0.15%

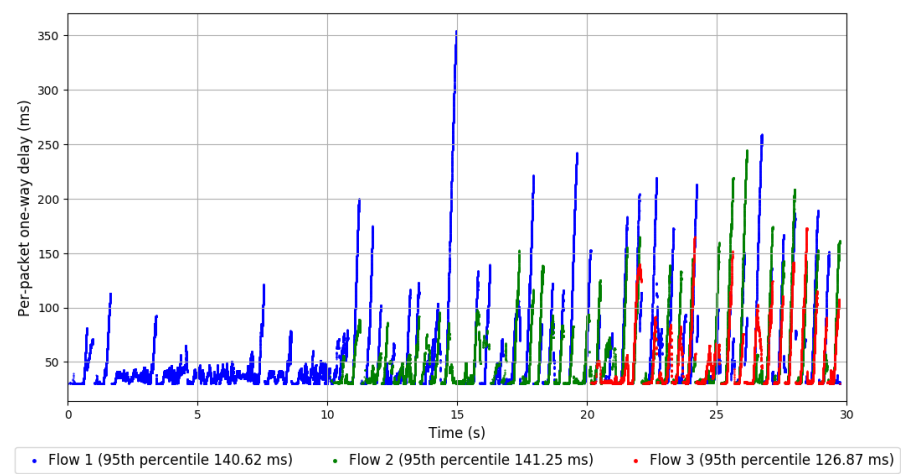
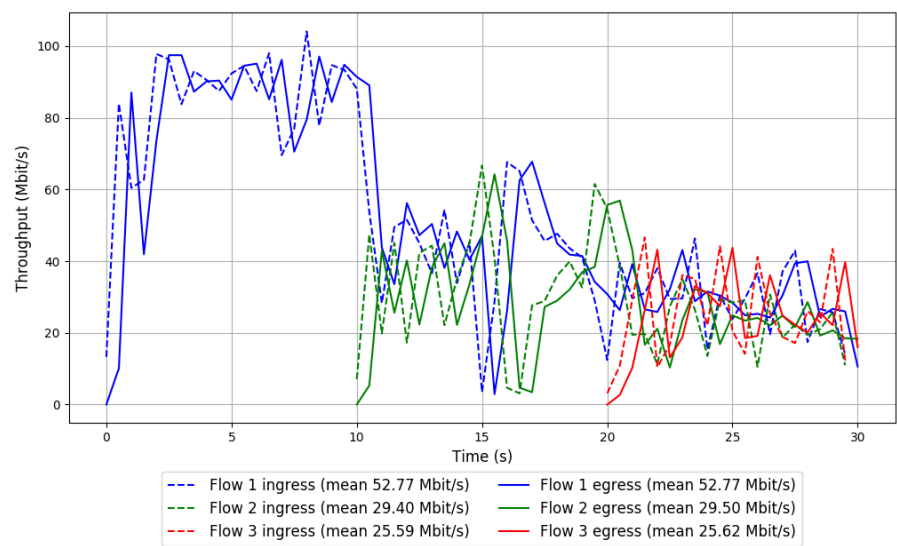
-- Flow 3:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 126.866 ms

Loss rate: 0.49%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-25 04:41:34

End at: 2019-11-25 04:42:04

Local clock offset: 3.571 ms

Remote clock offset: 3.092 ms

# Below is generated by plot.py at 2019-11-25 06:25:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.02 Mbit/s

95th percentile per-packet one-way delay: 153.709 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 170.411 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 129.781 ms

Loss rate: 0.14%

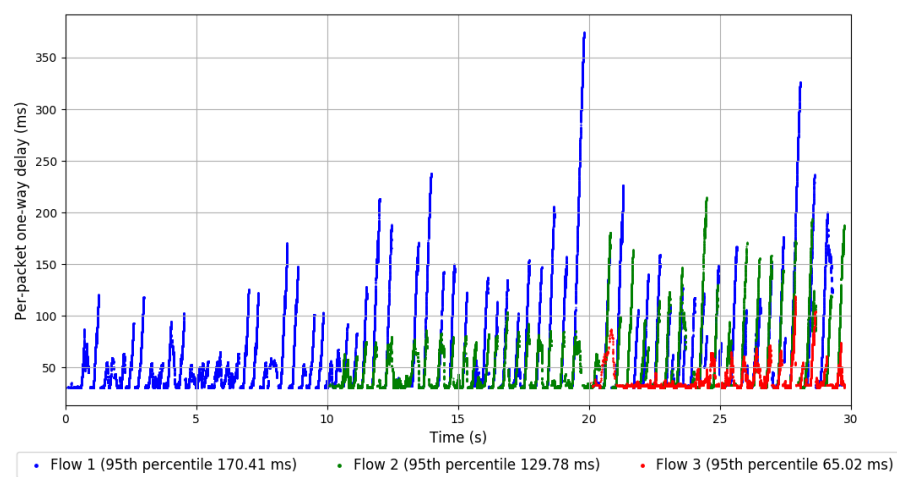
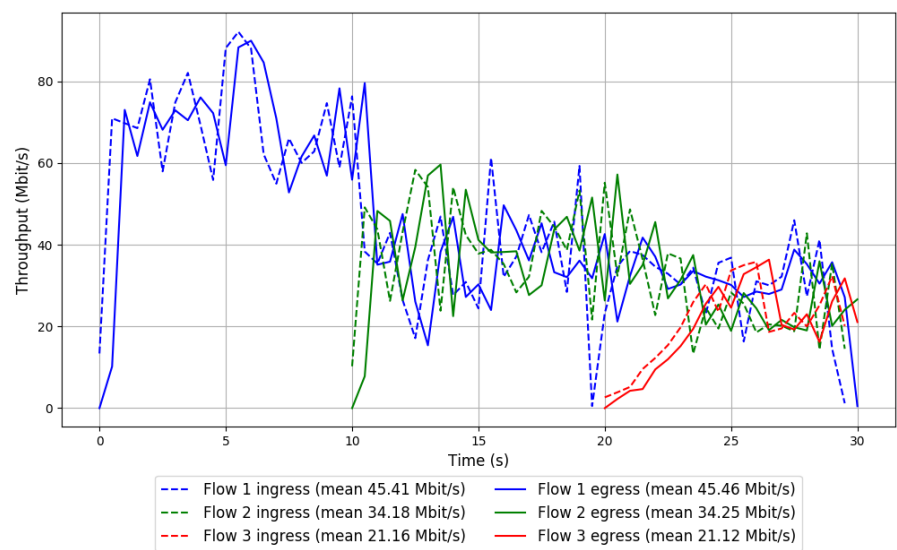
-- Flow 3:

Average throughput: 21.12 Mbit/s

95th percentile per-packet one-way delay: 65.021 ms

Loss rate: 0.90%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 16:20:58

End at: 2019-11-24 16:21:28

Local clock offset: 3.333 ms

Remote clock offset: 4.508 ms

# Below is generated by plot.py at 2019-11-25 06:26:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 44.265 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 42.154 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 45.537 ms

Loss rate: 0.24%

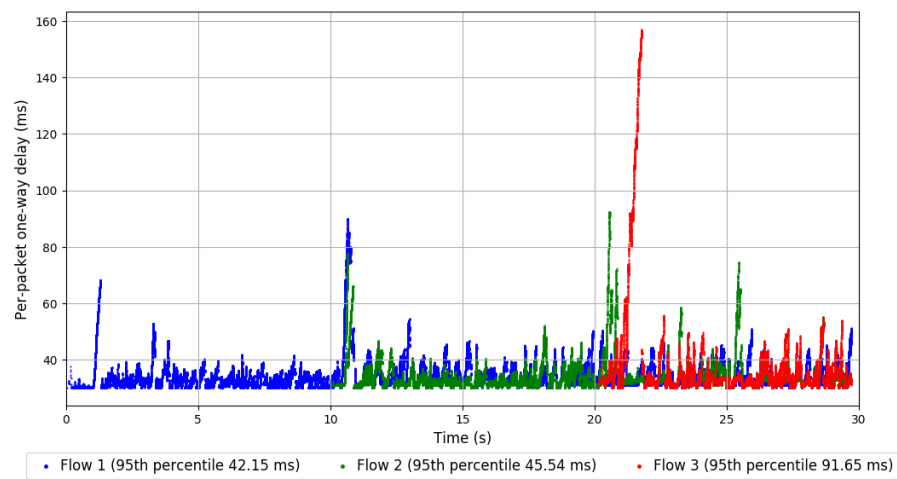
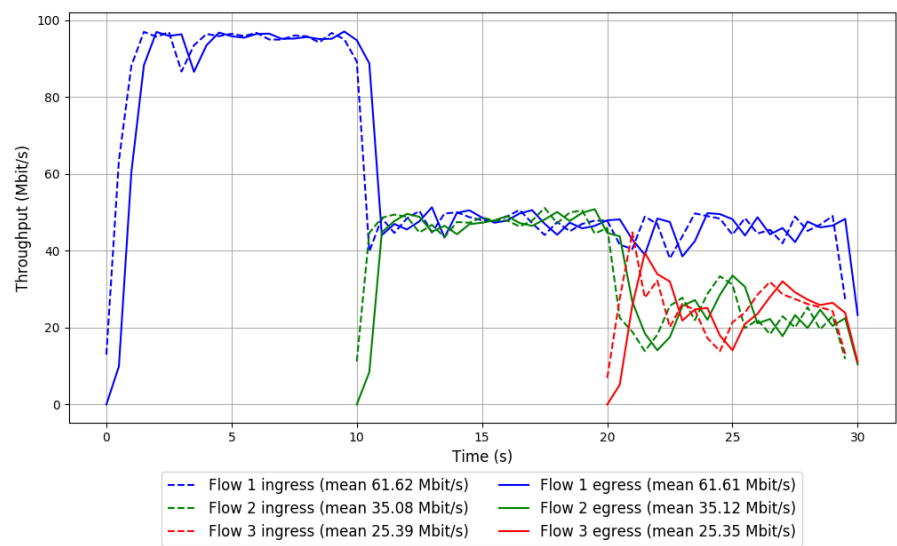
-- Flow 3:

Average throughput: 25.35 Mbit/s

95th percentile per-packet one-way delay: 91.654 ms

Loss rate: 0.80%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 17:45:35

End at: 2019-11-24 17:46:05

Local clock offset: 4.471 ms

Remote clock offset: 4.269 ms

# Below is generated by plot.py at 2019-11-25 06:26:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.94 Mbit/s

95th percentile per-packet one-way delay: 45.274 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 55.40 Mbit/s

95th percentile per-packet one-way delay: 45.600 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 33.54 Mbit/s

95th percentile per-packet one-way delay: 44.266 ms

Loss rate: 0.37%

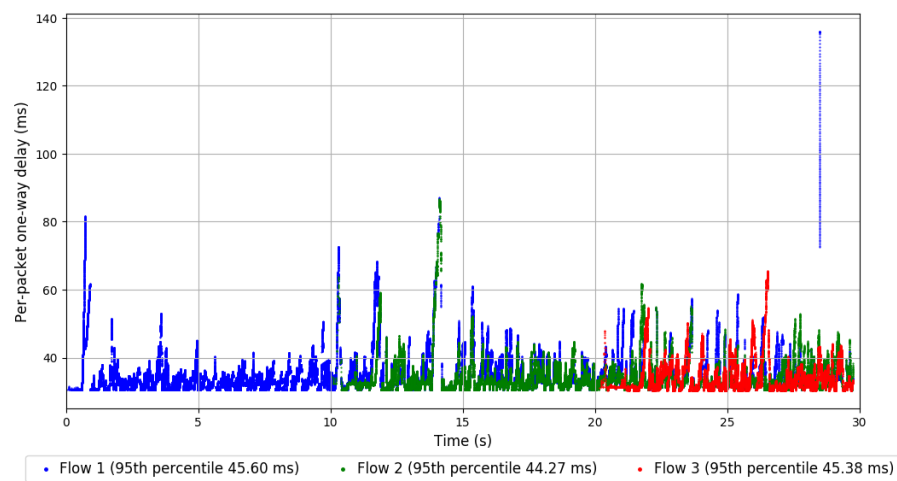
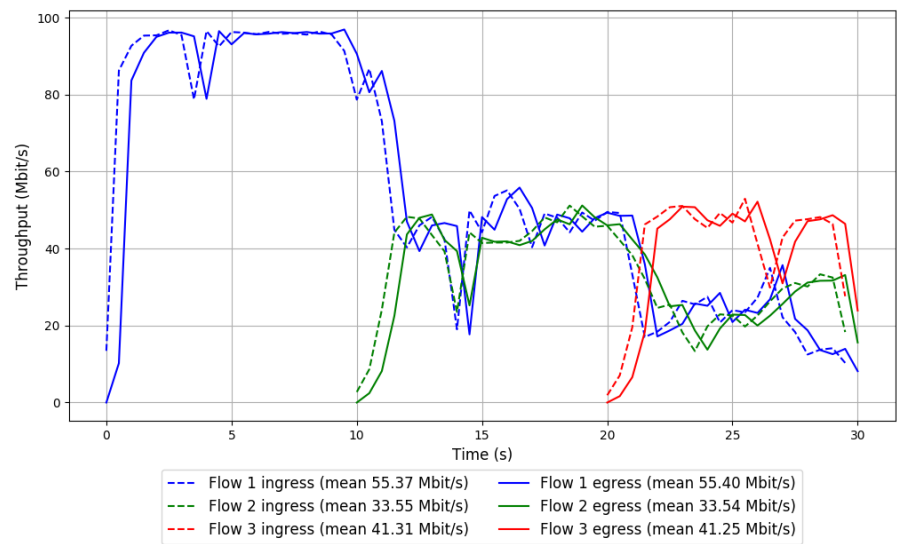
-- Flow 3:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 45.375 ms

Loss rate: 0.82%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 23:53:07

End at: 2019-11-24 23:53:37

Local clock offset: 3.73 ms

Remote clock offset: 5.209 ms

# Below is generated by plot.py at 2019-11-25 06:26:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.86 Mbit/s

95th percentile per-packet one-way delay: 54.863 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 65.363 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 52.206 ms

Loss rate: 0.38%

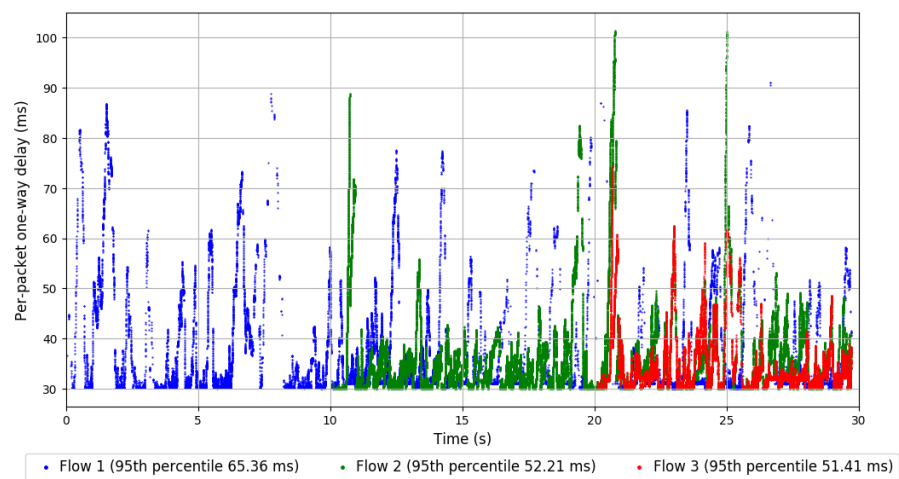
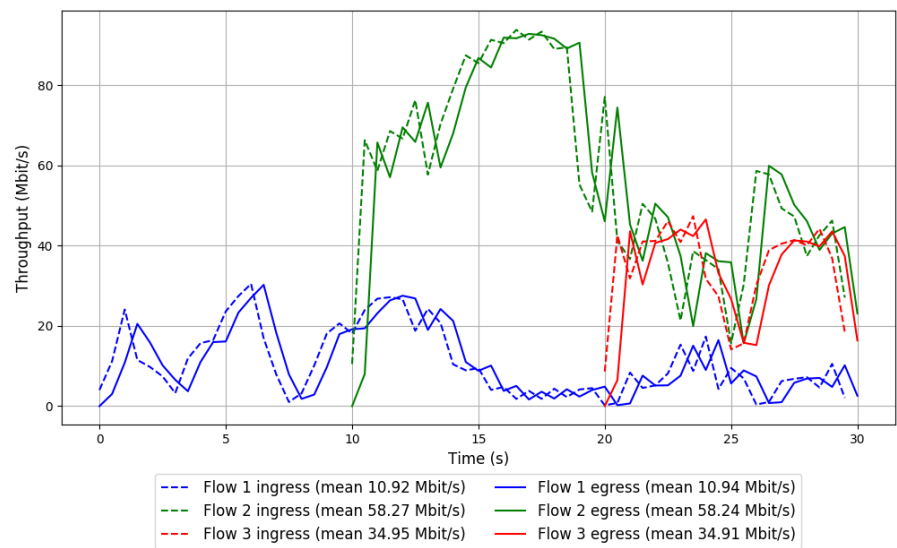
-- Flow 3:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 51.406 ms

Loss rate: 0.76%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-25 01:56:45

End at: 2019-11-25 01:57:15

Local clock offset: 4.39 ms

Remote clock offset: 4.32 ms

# Below is generated by plot.py at 2019-11-25 06:26:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 44.86 Mbit/s

95th percentile per-packet one-way delay: 54.621 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 0.27%

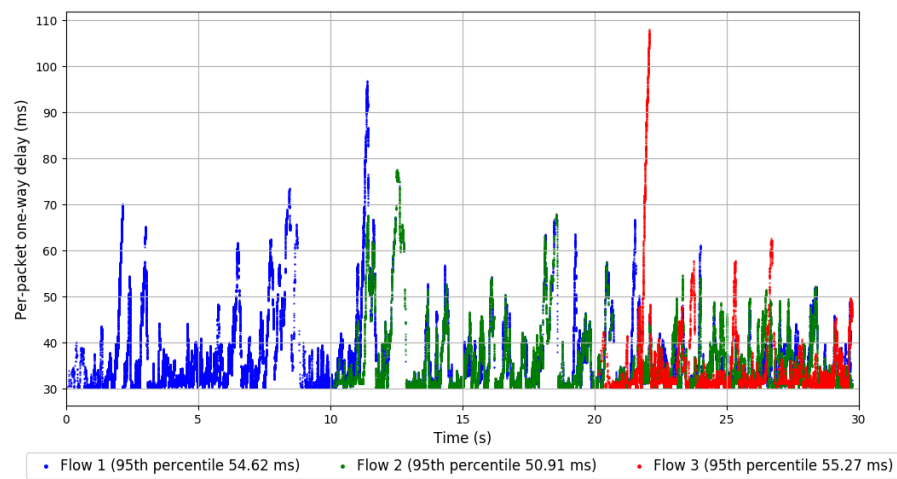
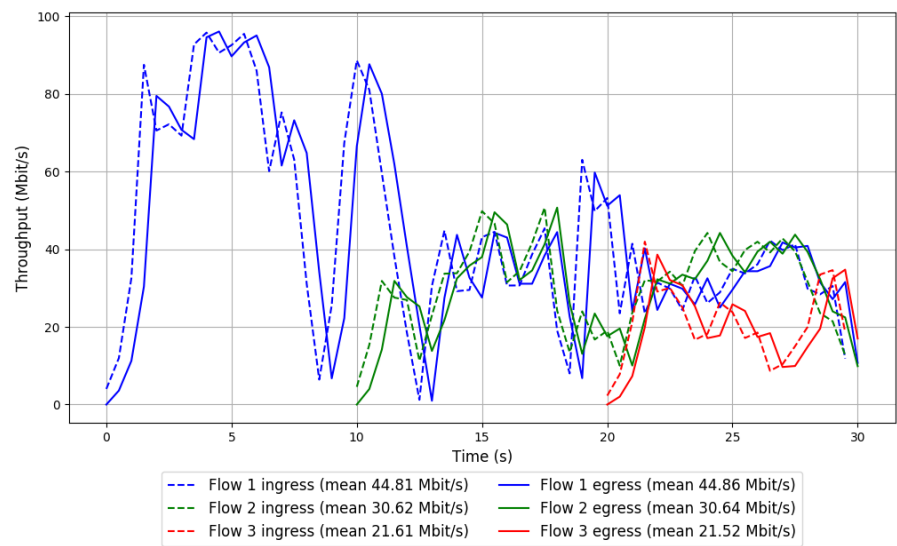
-- Flow 3:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 55.275 ms

Loss rate: 0.97%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-25 05:22:59

End at: 2019-11-25 05:23:29

Local clock offset: 3.266 ms

Remote clock offset: 4.02 ms

# Below is generated by plot.py at 2019-11-25 06:26:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 47.372 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 52.10 Mbit/s

95th percentile per-packet one-way delay: 48.145 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 45.762 ms

Loss rate: 0.29%

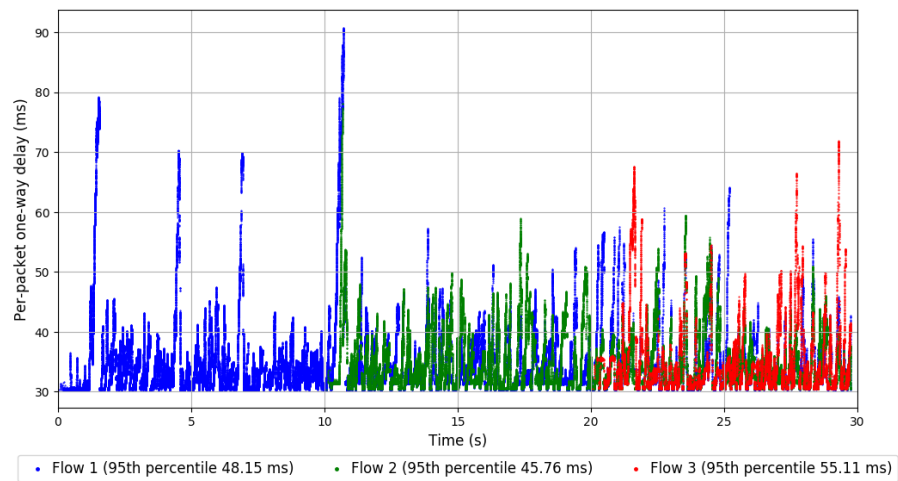
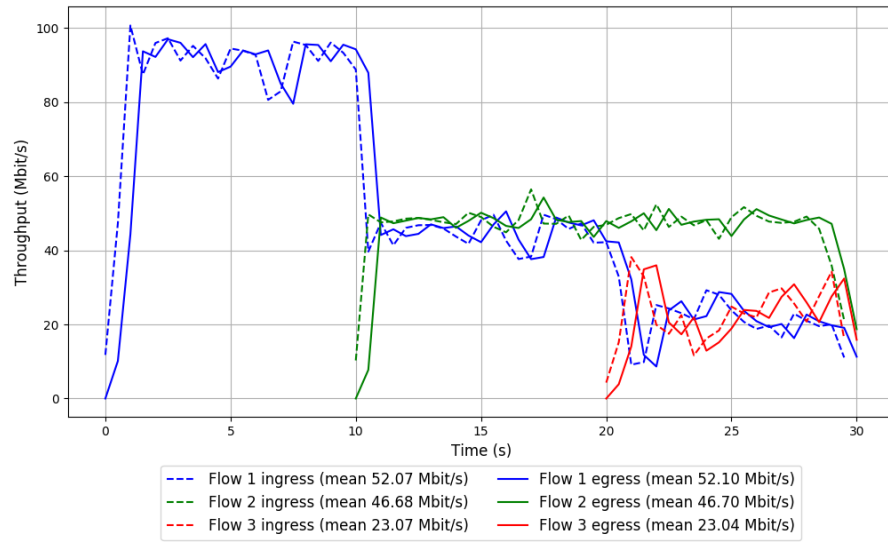
-- Flow 3:

Average throughput: 23.04 Mbit/s

95th percentile per-packet one-way delay: 55.110 ms

Loss rate: 0.85%

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

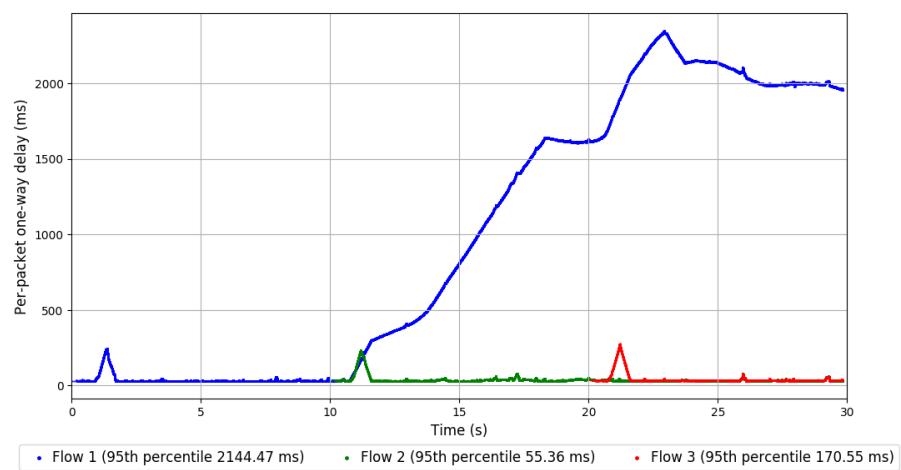
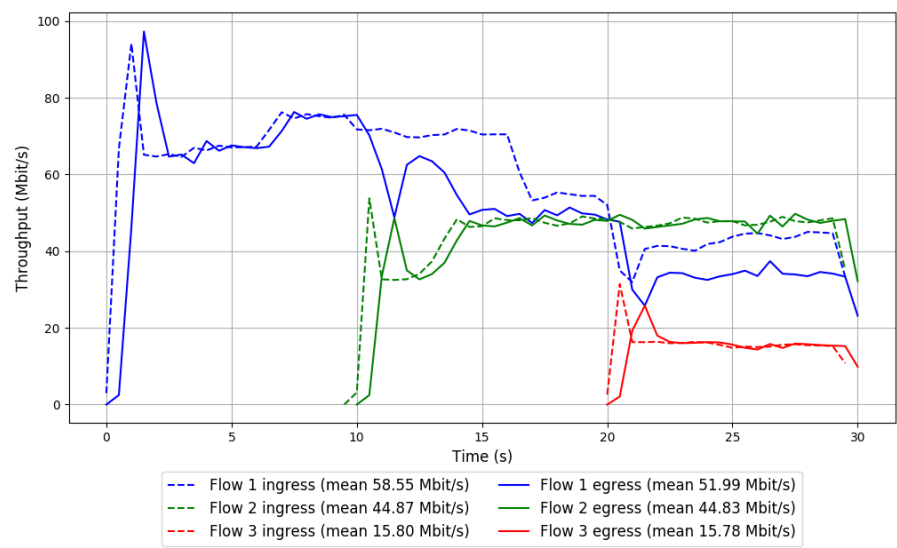


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 16:12:03
End at: 2019-11-24 16:12:33
Local clock offset: 3.084 ms
Remote clock offset: 4.135 ms

# Below is generated by plot.py at 2019-11-25 06:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 2093.633 ms
Loss rate: 7.29%
-- Flow 1:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 2144.473 ms
Loss rate: 11.38%
-- Flow 2:
Average throughput: 44.83 Mbit/s
95th percentile per-packet one-way delay: 55.358 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 170.554 ms
Loss rate: 0.78%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 17:33:27

End at: 2019-11-24 17:33:57

Local clock offset: 4.293 ms

Remote clock offset: 4.316 ms

# Below is generated by plot.py at 2019-11-25 06:26:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.18 Mbit/s

95th percentile per-packet one-way delay: 2200.997 ms

Loss rate: 9.80%

-- Flow 1:

Average throughput: 55.74 Mbit/s

95th percentile per-packet one-way delay: 2210.774 ms

Loss rate: 11.64%

-- Flow 2:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 884.631 ms

Loss rate: 9.14%

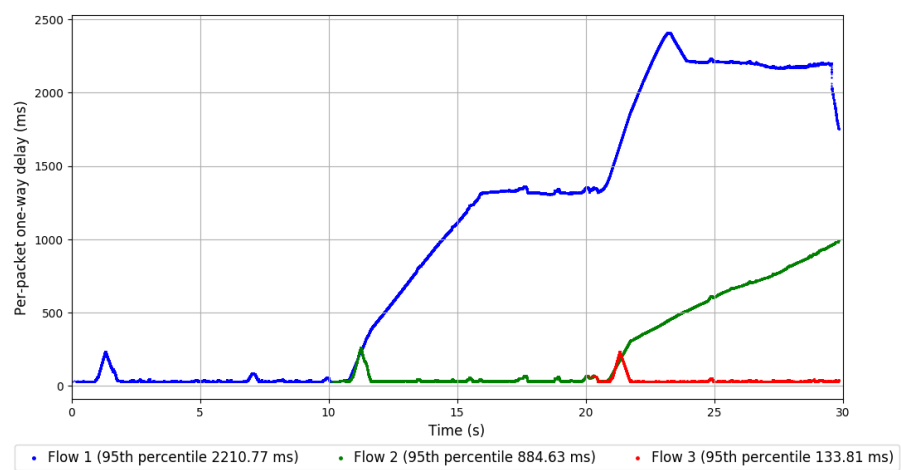
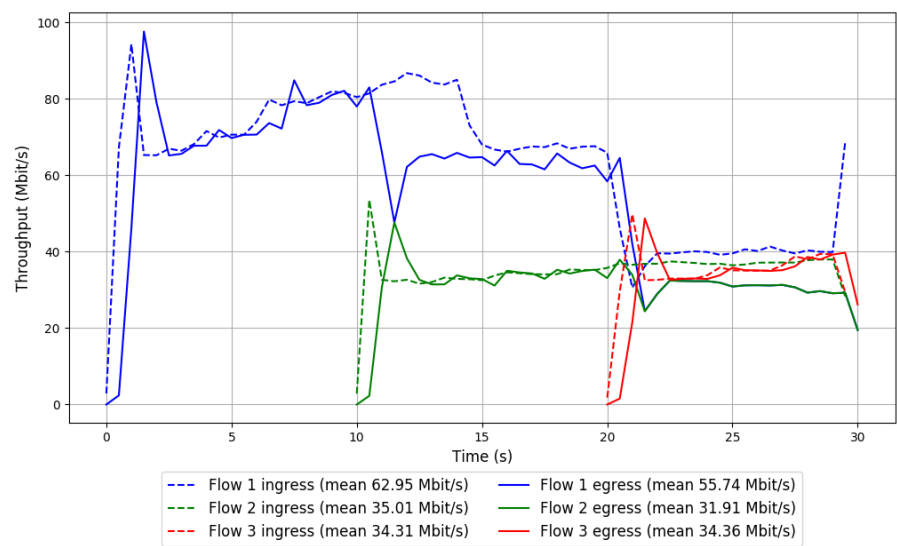
-- Flow 3:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 133.808 ms

Loss rate: 0.90%

Run 2: Report of PCC-Allegro — Data Link



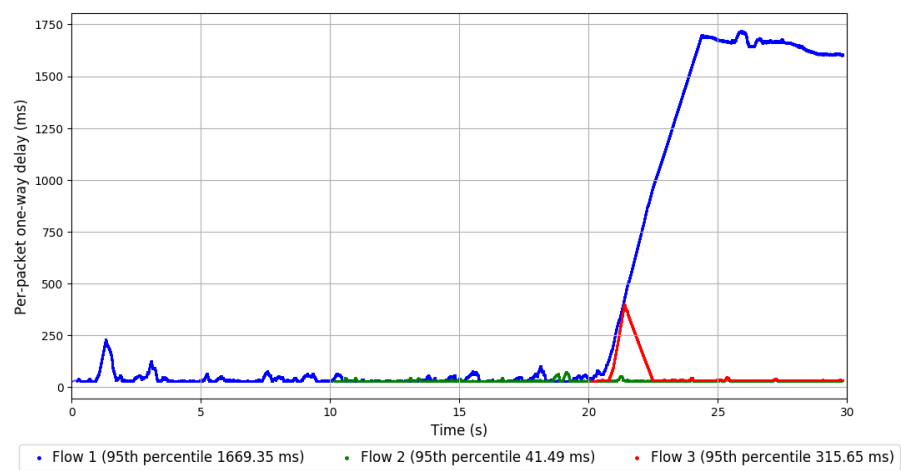
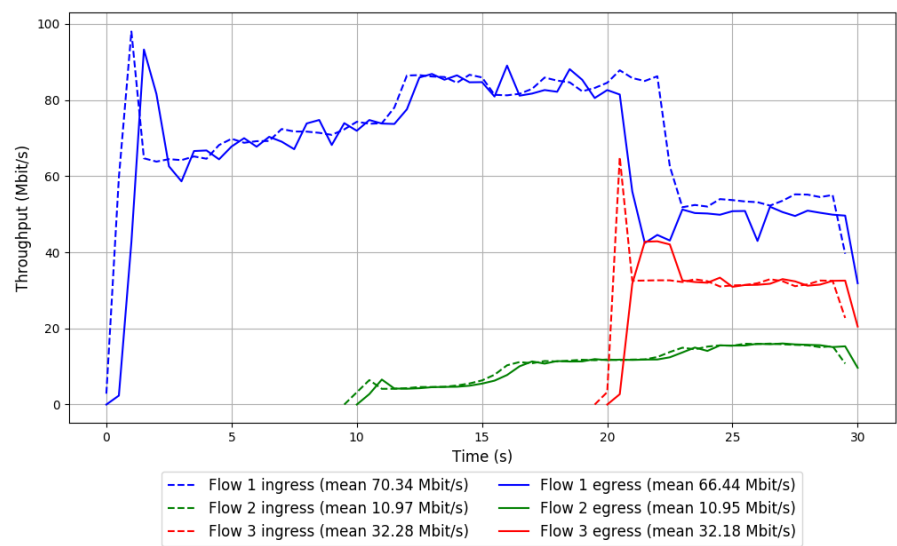


Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 23:28:04  
End at: 2019-11-24 23:28:34  
Local clock offset: 3.8 ms  
Remote clock offset: 10.073 ms

# Below is generated by plot.py at 2019-11-25 06:27:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.32 Mbit/s  
95th percentile per-packet one-way delay: 1665.924 ms  
Loss rate: 4.73%  
-- Flow 1:  
Average throughput: 66.44 Mbit/s  
95th percentile per-packet one-way delay: 1669.351 ms  
Loss rate: 5.74%  
-- Flow 2:  
Average throughput: 10.95 Mbit/s  
95th percentile per-packet one-way delay: 41.494 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 32.18 Mbit/s  
95th percentile per-packet one-way delay: 315.655 ms  
Loss rate: 0.96%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-25 01:31:34

End at: 2019-11-25 01:32:04

Local clock offset: 3.559 ms

Remote clock offset: 6.179 ms

# Below is generated by plot.py at 2019-11-25 06:27:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.01 Mbit/s

95th percentile per-packet one-way delay: 157.150 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 55.983 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 59.97 Mbit/s

95th percentile per-packet one-way delay: 209.024 ms

Loss rate: 0.48%

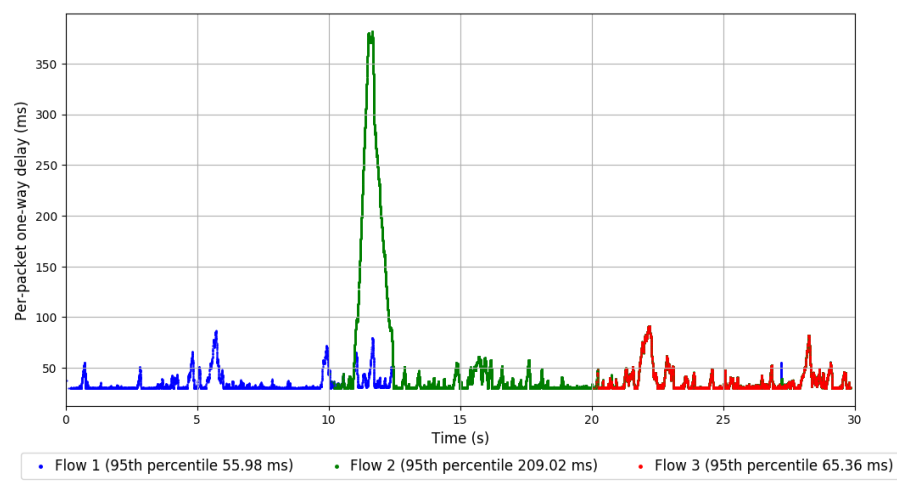
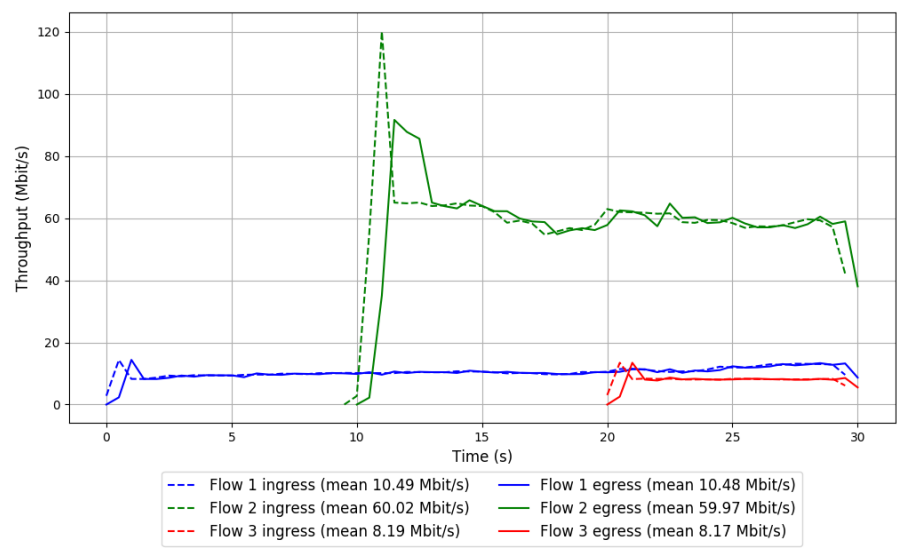
-- Flow 3:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 65.356 ms

Loss rate: 0.89%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-25 05:11:59

End at: 2019-11-25 05:12:29

Local clock offset: 3.786 ms

Remote clock offset: 3.709 ms

# Below is generated by plot.py at 2019-11-25 06:27:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 1781.159 ms

Loss rate: 7.11%

-- Flow 1:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 1797.644 ms

Loss rate: 9.96%

-- Flow 2:

Average throughput: 36.59 Mbit/s

95th percentile per-packet one-way delay: 51.815 ms

Loss rate: 0.39%

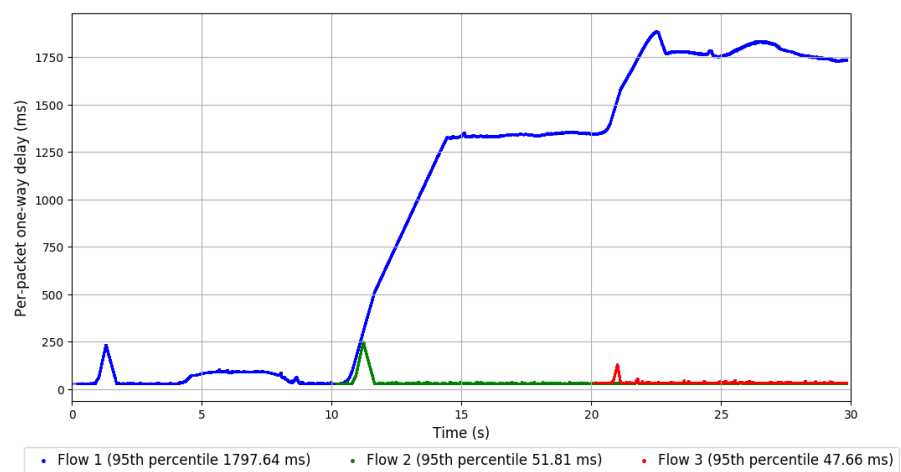
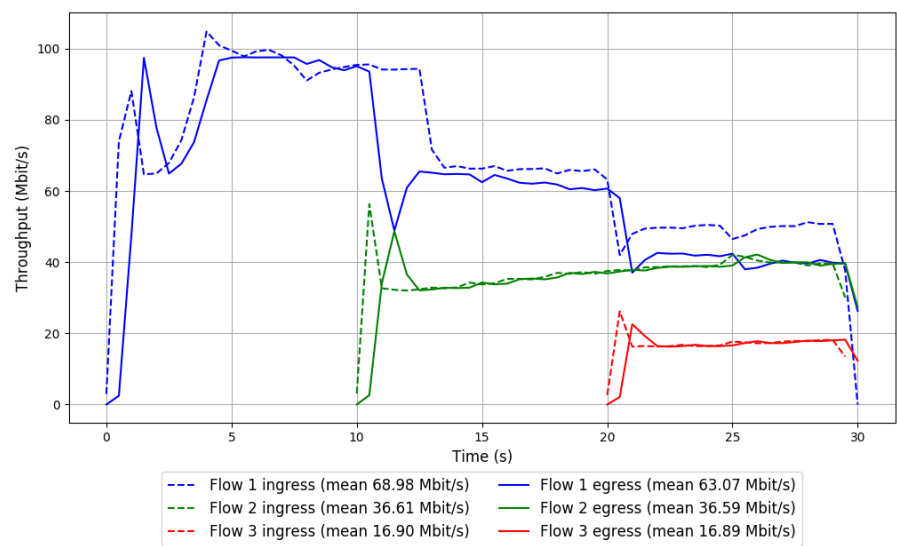
-- Flow 3:

Average throughput: 16.89 Mbit/s

95th percentile per-packet one-way delay: 47.661 ms

Loss rate: 0.73%

Run 5: Report of PCC-Allegro — Data Link

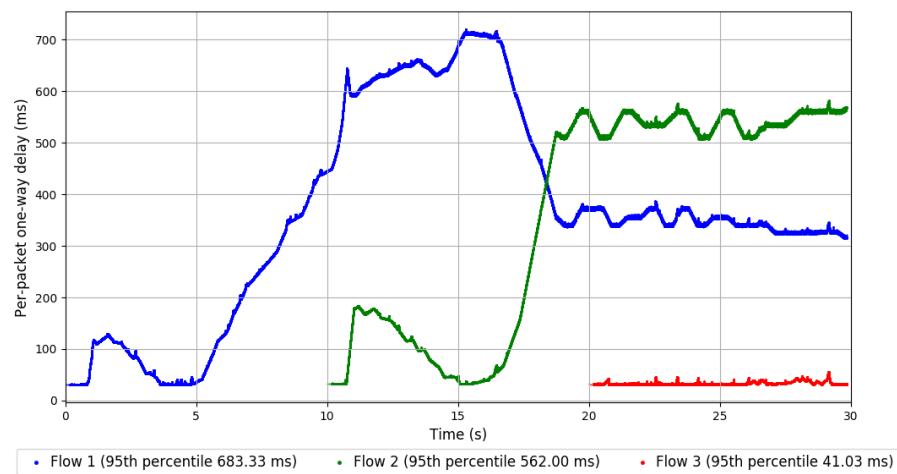
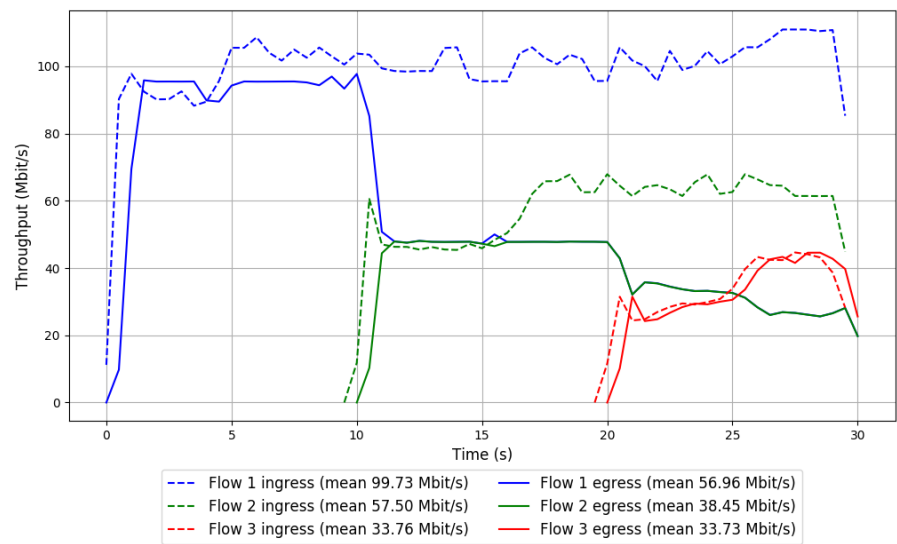


```
Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 16:26:35
End at: 2019-11-24 16:27:05
Local clock offset: 3.39 ms
Remote clock offset: 4.353 ms

# Below is generated by plot.py at 2019-11-25 06:28:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 650.347 ms
Loss rate: 37.36%
-- Flow 1:
Average throughput: 56.96 Mbit/s
95th percentile per-packet one-way delay: 683.332 ms
Loss rate: 43.00%
-- Flow 2:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 561.999 ms
Loss rate: 33.35%
-- Flow 3:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 41.029 ms
Loss rate: 0.73%
```

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 17:53:41

End at: 2019-11-24 17:54:11

Local clock offset: 4.514 ms

Remote clock offset: 4.304 ms

# Below is generated by plot.py at 2019-11-25 06:28:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.82 Mbit/s

95th percentile per-packet one-way delay: 750.712 ms

Loss rate: 23.27%

-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 757.619 ms

Loss rate: 29.20%

-- Flow 2:

Average throughput: 19.41 Mbit/s

95th percentile per-packet one-way delay: 51.959 ms

Loss rate: 0.41%

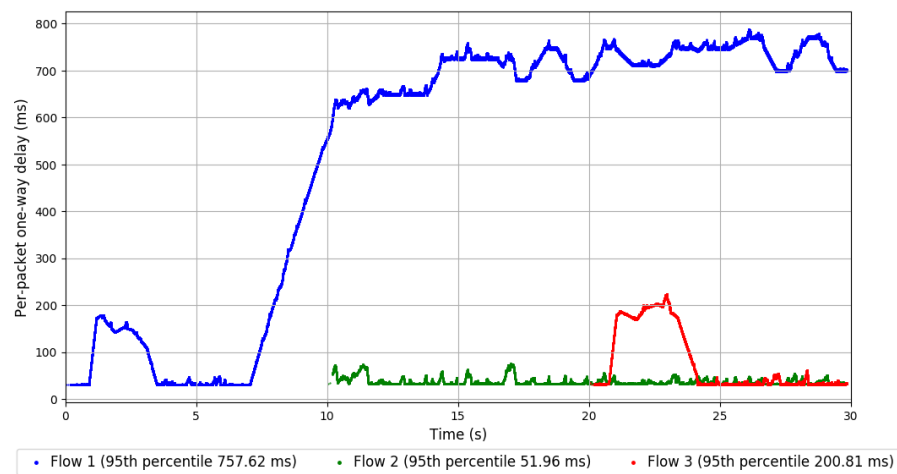
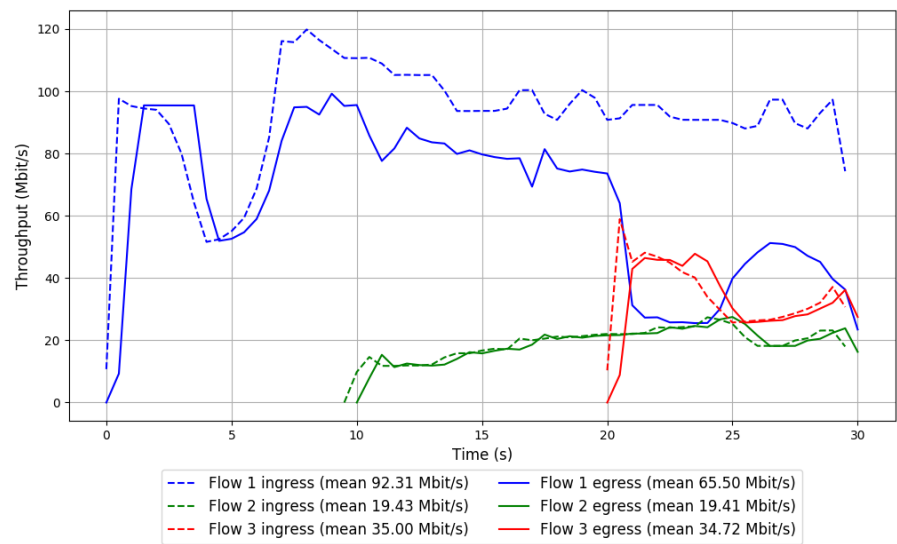
-- Flow 3:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 200.813 ms

Loss rate: 1.45%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-11-25 00:01:02

End at: 2019-11-25 00:01:32

Local clock offset: 3.693 ms

Remote clock offset: 4.967 ms

# Below is generated by plot.py at 2019-11-25 06:28:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 823.173 ms

Loss rate: 29.72%

-- Flow 1:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 743.203 ms

Loss rate: 36.48%

-- Flow 2:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 1168.690 ms

Loss rate: 8.93%

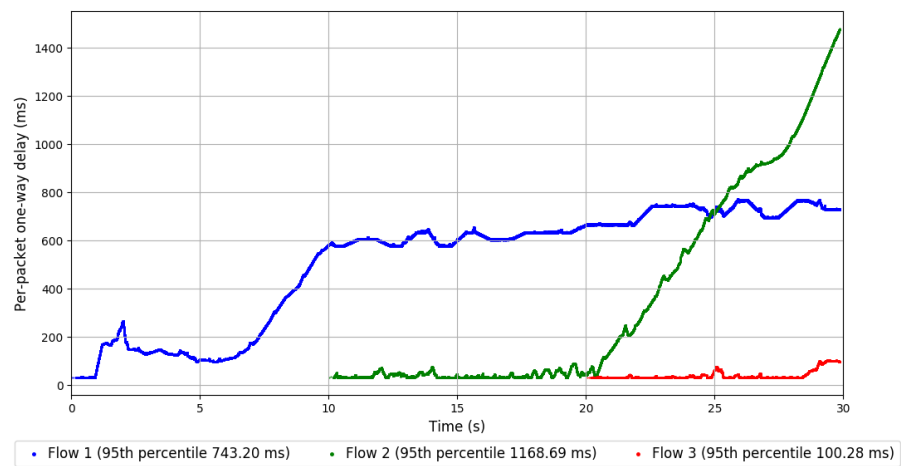
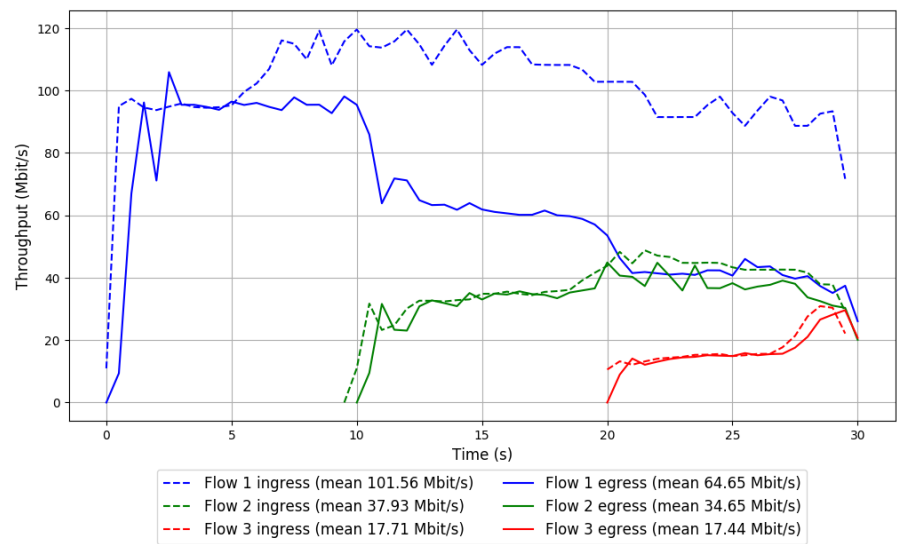
-- Flow 3:

Average throughput: 17.44 Mbit/s

95th percentile per-packet one-way delay: 100.280 ms

Loss rate: 2.13%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-11-25 02:17:09

End at: 2019-11-25 02:17:39

Local clock offset: 4.145 ms

Remote clock offset: 2.803 ms

# Below is generated by plot.py at 2019-11-25 06:28:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 62.823 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 14.06 Mbit/s

95th percentile per-packet one-way delay: 61.197 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 64.968 ms

Loss rate: 0.50%

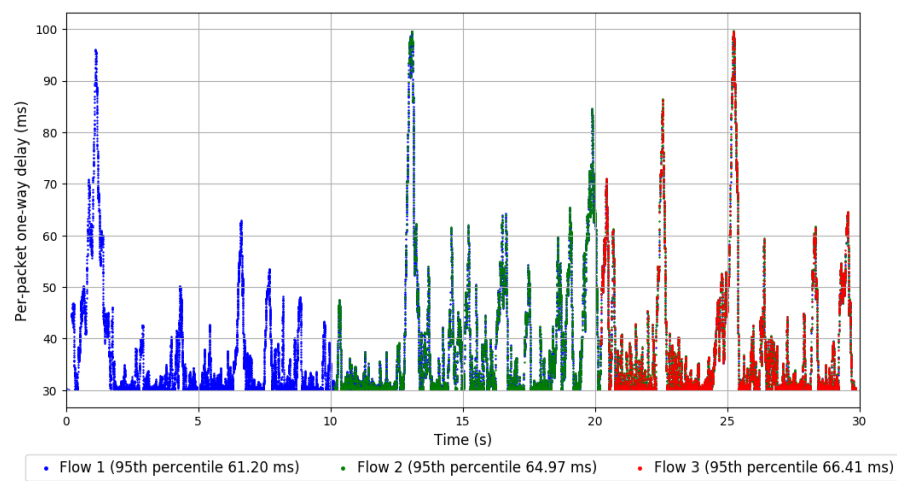
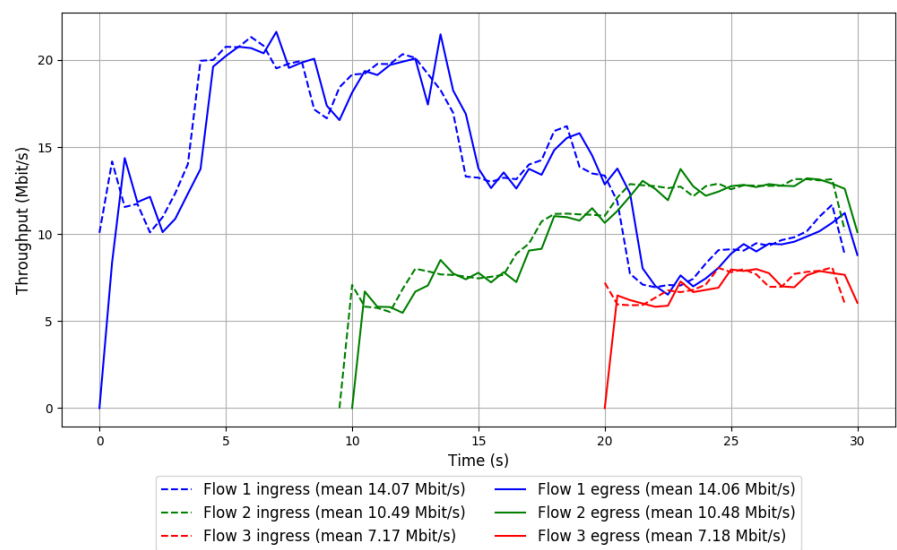
-- Flow 3:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 66.414 ms

Loss rate: 0.77%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-11-25 05:30:23

End at: 2019-11-25 05:30:53

Local clock offset: 3.095 ms

Remote clock offset: 4.197 ms

# Below is generated by plot.py at 2019-11-25 06:28:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.50 Mbit/s

95th percentile per-packet one-way delay: 998.163 ms

Loss rate: 37.80%

-- Flow 1:

Average throughput: 42.81 Mbit/s

95th percentile per-packet one-way delay: 819.109 ms

Loss rate: 41.78%

-- Flow 2:

Average throughput: 38.54 Mbit/s

95th percentile per-packet one-way delay: 1008.959 ms

Loss rate: 37.53%

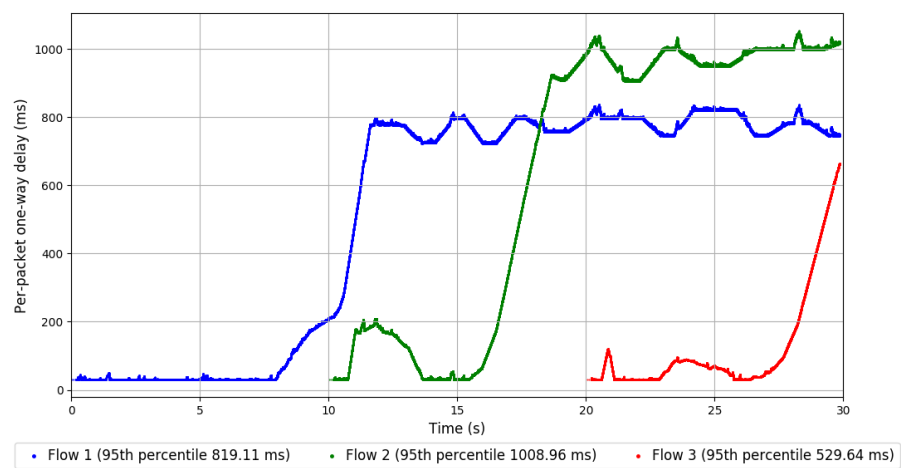
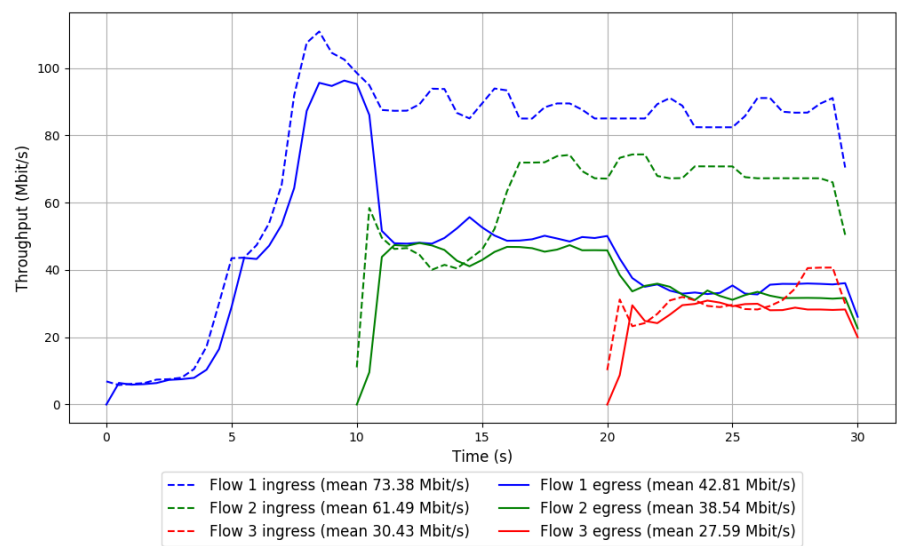
-- Flow 3:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 529.639 ms

Loss rate: 9.91%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 16:07:20

End at: 2019-11-24 16:07:50

Local clock offset: 2.934 ms

Remote clock offset: 4.072 ms

# Below is generated by plot.py at 2019-11-25 06:28:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 70.001 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 52.38 Mbit/s

95th percentile per-packet one-way delay: 48.995 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 119.552 ms

Loss rate: 0.50%

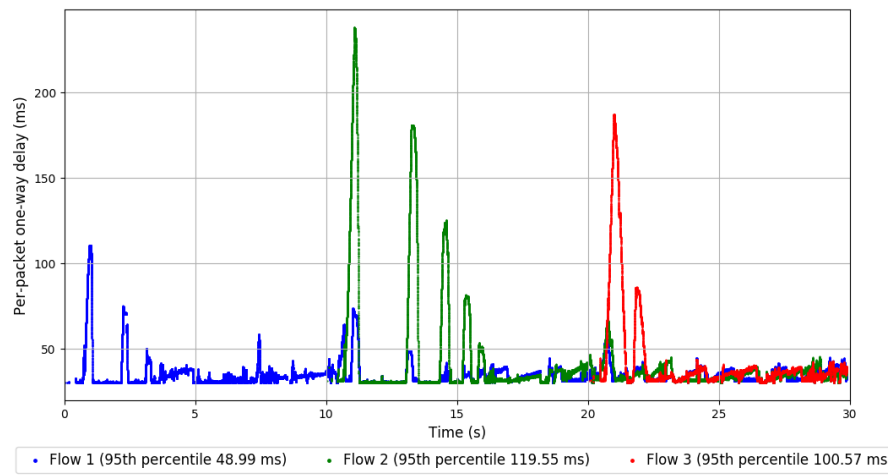
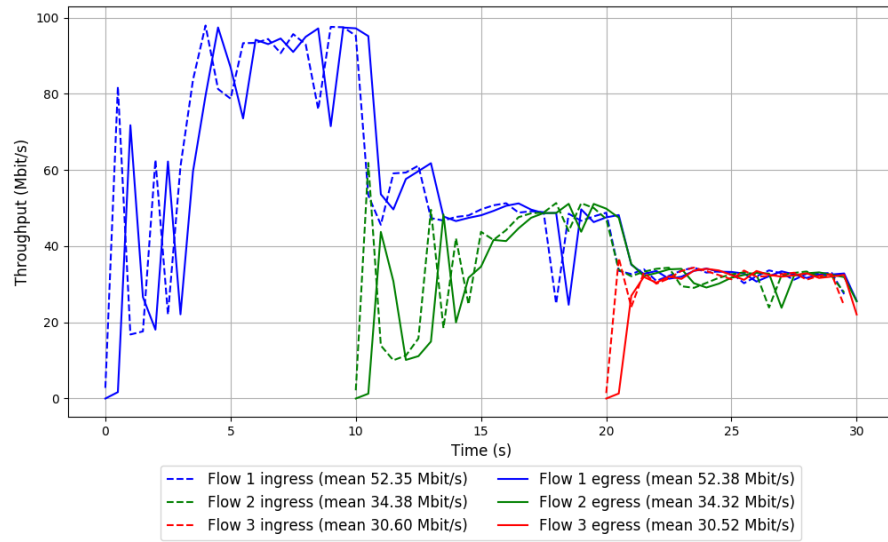
-- Flow 3:

Average throughput: 30.52 Mbit/s

95th percentile per-packet one-way delay: 100.567 ms

Loss rate: 0.93%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 17:28:56

End at: 2019-11-24 17:29:26

Local clock offset: 4.179 ms

Remote clock offset: 4.269 ms

# Below is generated by plot.py at 2019-11-25 06:28:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 111.536 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 97.756 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 33.20 Mbit/s

95th percentile per-packet one-way delay: 103.156 ms

Loss rate: 0.35%

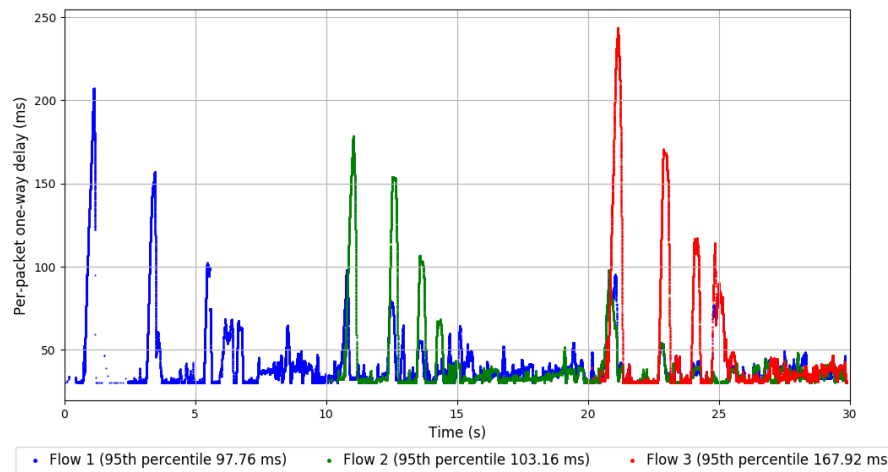
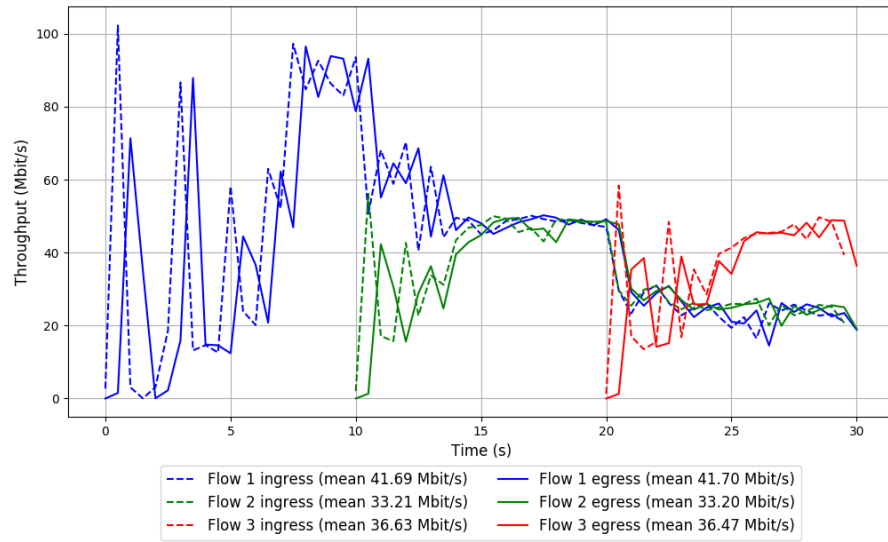
-- Flow 3:

Average throughput: 36.47 Mbit/s

95th percentile per-packet one-way delay: 167.923 ms

Loss rate: 1.08%

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

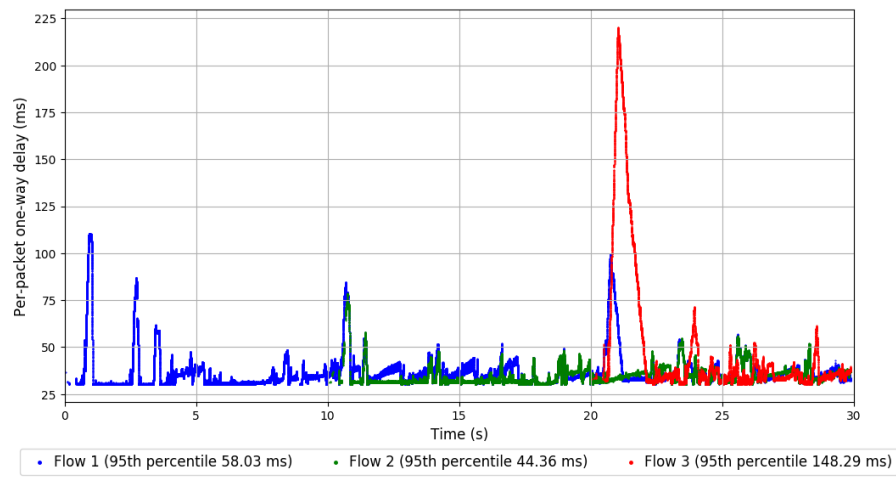
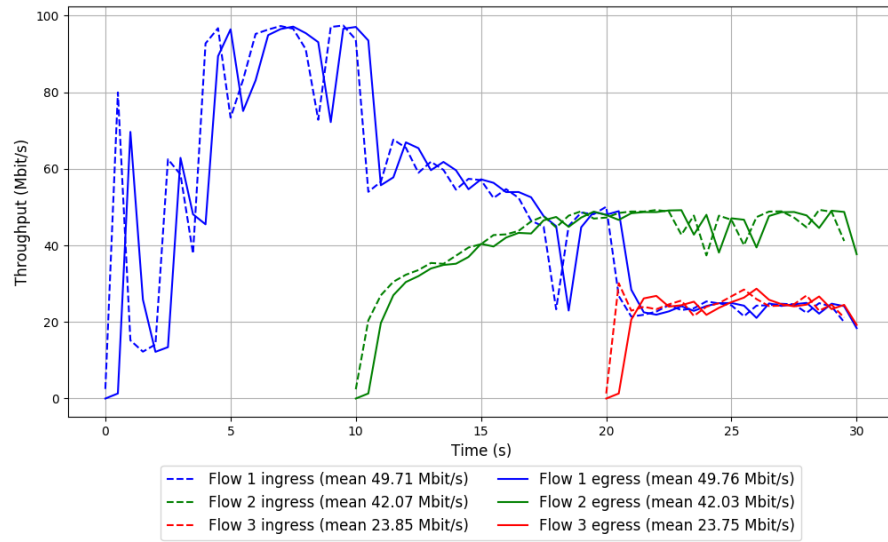


Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 23:16:29  
End at: 2019-11-24 23:16:59  
Local clock offset: 3.671 ms  
Remote clock offset: 10.938 ms

# Below is generated by plot.py at 2019-11-25 06:28:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.53 Mbit/s  
95th percentile per-packet one-way delay: 54.059 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 49.76 Mbit/s  
95th percentile per-packet one-way delay: 58.035 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 42.03 Mbit/s  
95th percentile per-packet one-way delay: 44.363 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 23.75 Mbit/s  
95th percentile per-packet one-way delay: 148.286 ms  
Loss rate: 1.04%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-11-25 01:23:29

End at: 2019-11-25 01:23:59

Local clock offset: 3.499 ms

Remote clock offset: 6.128 ms

# Below is generated by plot.py at 2019-11-25 06:28:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 95.850 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 47.48 Mbit/s

95th percentile per-packet one-way delay: 84.226 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 107.408 ms

Loss rate: 0.34%

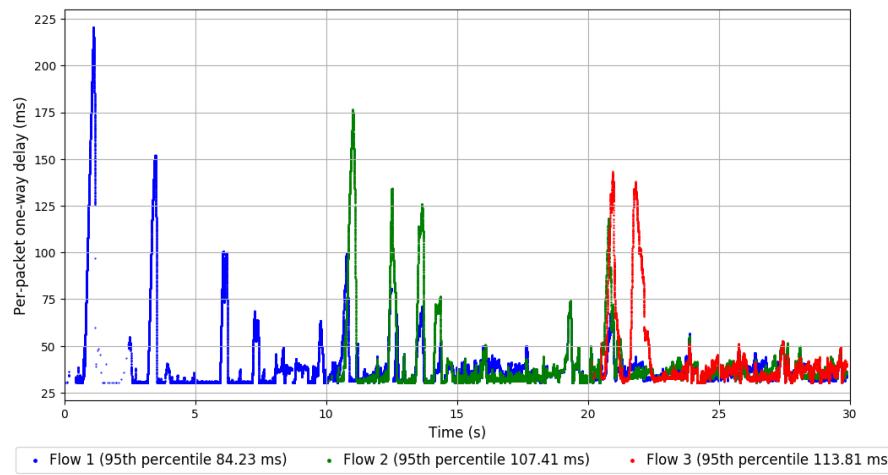
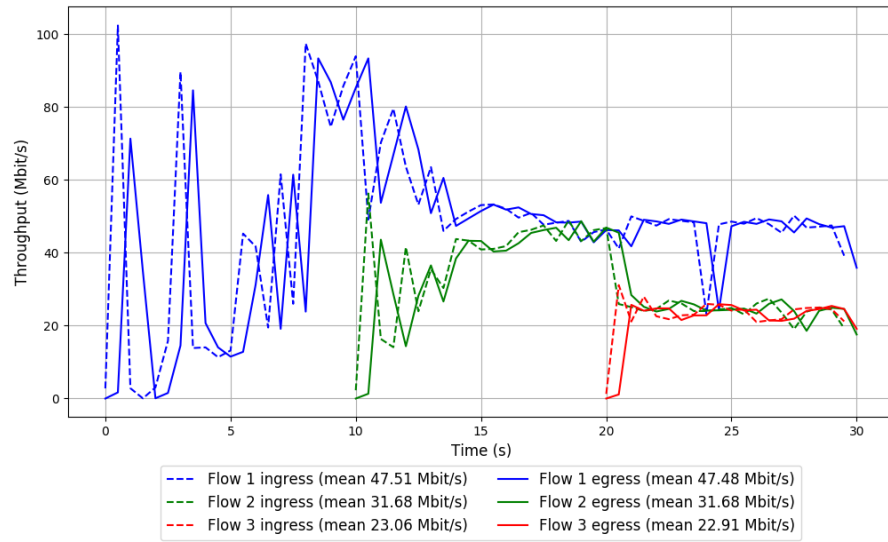
-- Flow 3:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 113.811 ms

Loss rate: 1.34%

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





Run 5: Statistics of QUIC Cubic

Start at: 2019-11-25 05:07:07

End at: 2019-11-25 05:07:37

Local clock offset: 4.073 ms

Remote clock offset: 3.849 ms

# Below is generated by plot.py at 2019-11-25 06:28:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.85 Mbit/s

95th percentile per-packet one-way delay: 78.844 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 49.89 Mbit/s

95th percentile per-packet one-way delay: 71.345 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 112.169 ms

Loss rate: 0.43%

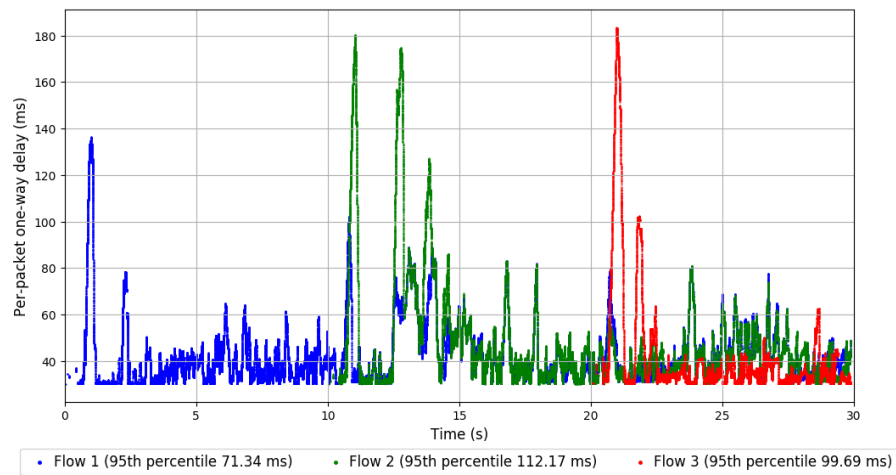
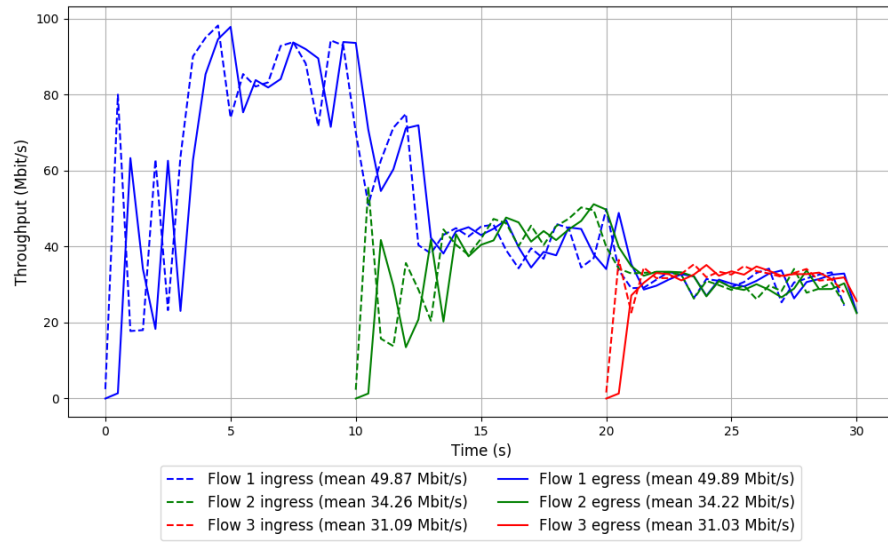
-- Flow 3:

Average throughput: 31.03 Mbit/s

95th percentile per-packet one-way delay: 99.685 ms

Loss rate: 0.86%

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

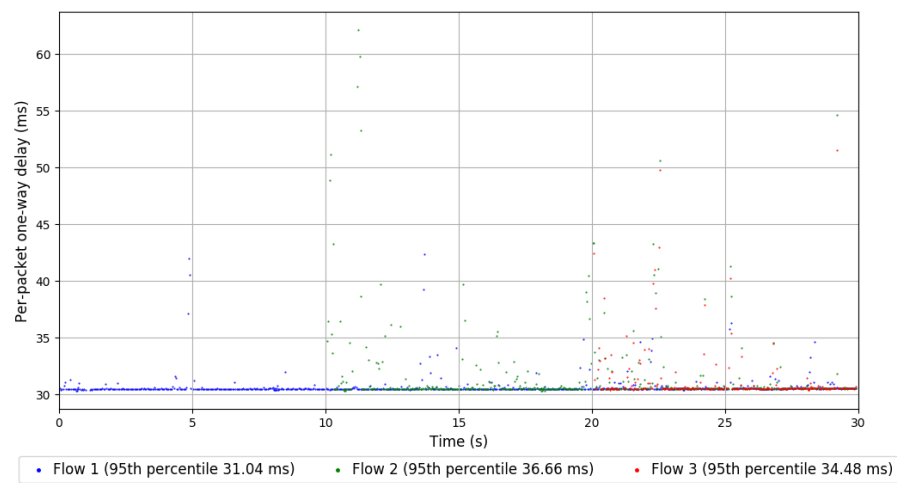
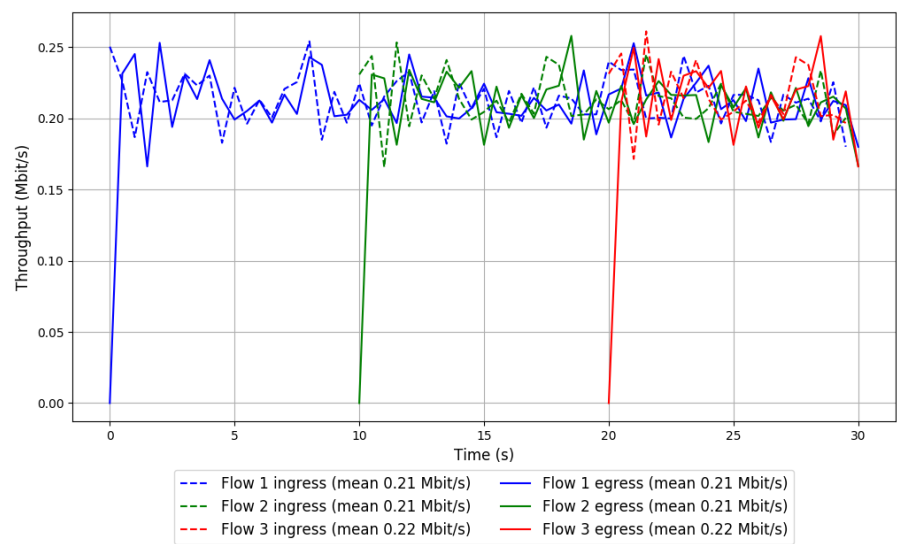


```
Run 1: Statistics of SReAM

Start at: 2019-11-24 16:06:10
End at: 2019-11-24 16:06:40
Local clock offset: 2.986 ms
Remote clock offset: 4.046 ms

# Below is generated by plot.py at 2019-11-25 06:28:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 33.466 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.037 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.663 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.482 ms
Loss rate: 0.71%
```

Run 1: Report of SReAM — Data Link

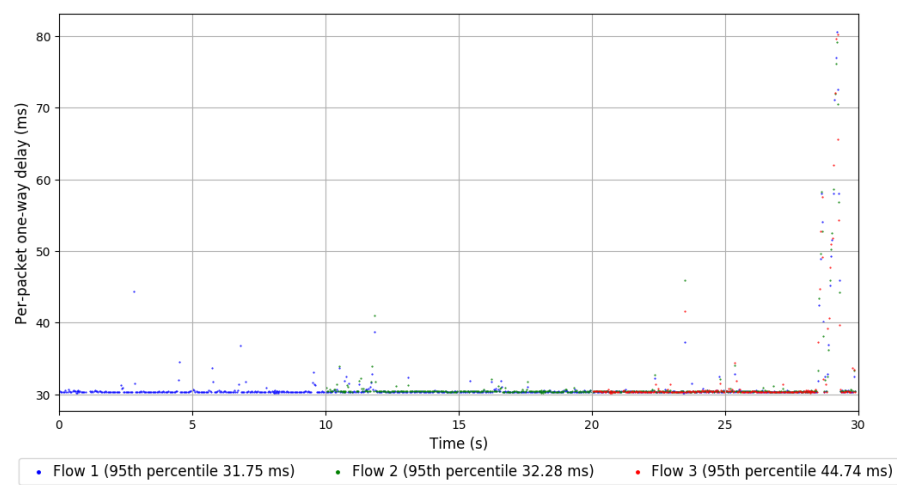
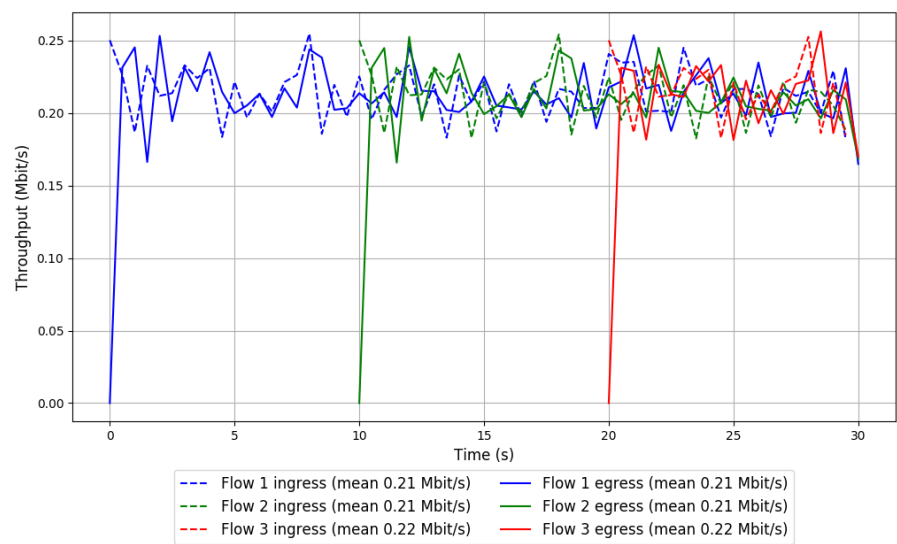


Run 2: Statistics of SReAM

Start at: 2019-11-24 17:27:44  
End at: 2019-11-24 17:28:14  
Local clock offset: 4.184 ms  
Remote clock offset: 4.2 ms

# Below is generated by plot.py at 2019-11-25 06:28:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 32.505 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.755 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 32.284 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 44.744 ms  
Loss rate: 0.72%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2019-11-24 23:15:16

End at: 2019-11-24 23:15:46

Local clock offset: 3.646 ms

Remote clock offset: 10.82 ms

# Below is generated by plot.py at 2019-11-25 06:28:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 43.822 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 46.114 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.603 ms

Loss rate: 0.40%

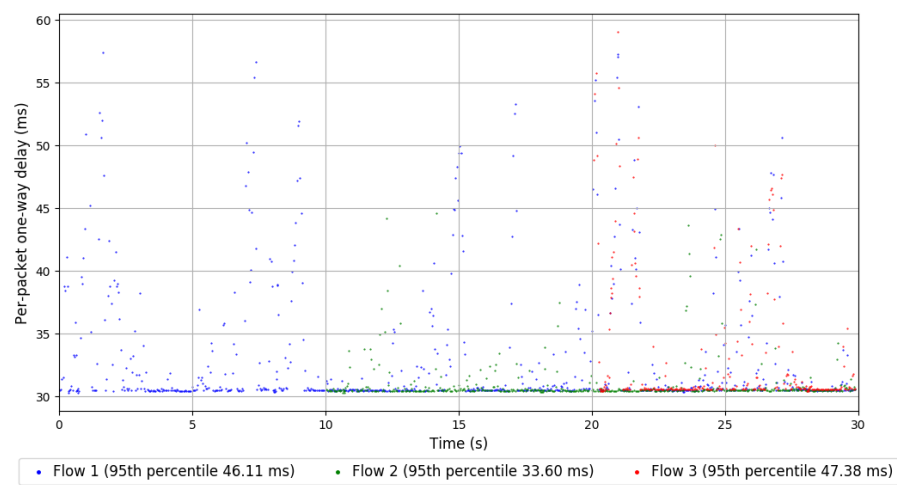
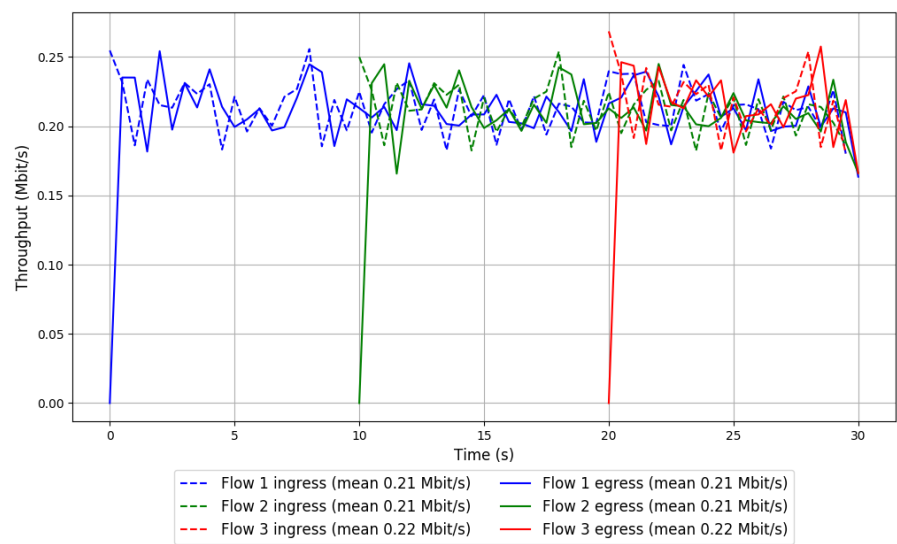
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.385 ms

Loss rate: 0.70%

Run 3: Report of SReAM — Data Link





Run 4: Statistics of SReAM

Start at: 2019-11-25 01:22:12

End at: 2019-11-25 01:22:42

Local clock offset: 3.444 ms

Remote clock offset: 6.182 ms

# Below is generated by plot.py at 2019-11-25 06:28:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 39.038 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 40.664 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.847 ms

Loss rate: 0.39%

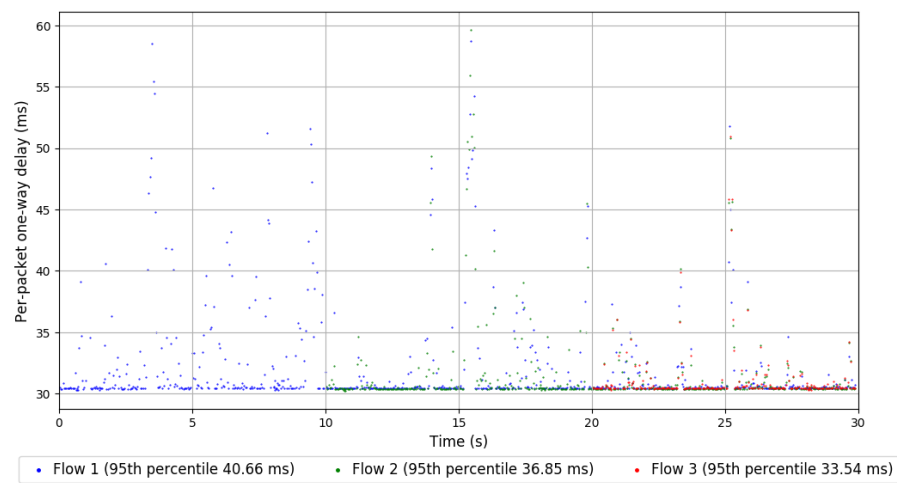
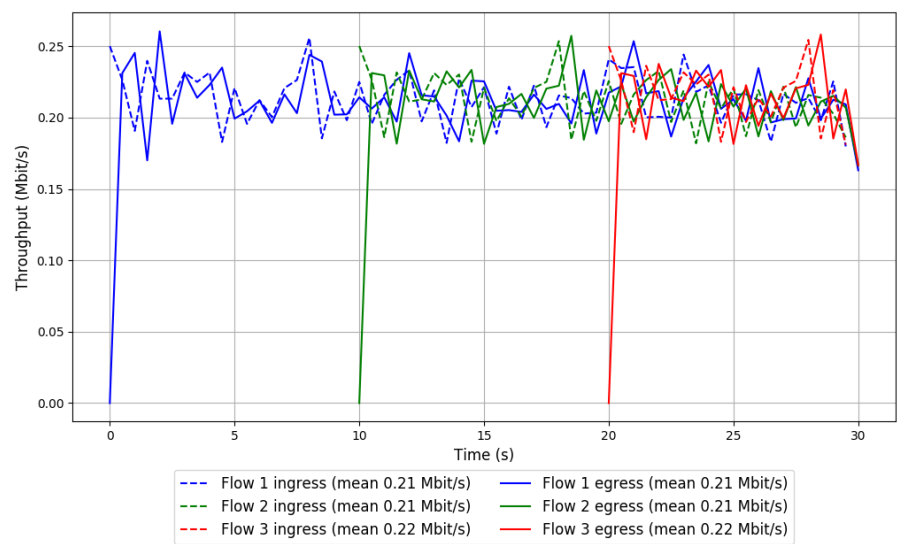
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.536 ms

Loss rate: 0.71%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-11-25 05:05:56

End at: 2019-11-25 05:06:26

Local clock offset: 4.04 ms

Remote clock offset: 3.805 ms

# Below is generated by plot.py at 2019-11-25 06:28:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.633 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 45.377 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.393 ms

Loss rate: 0.40%

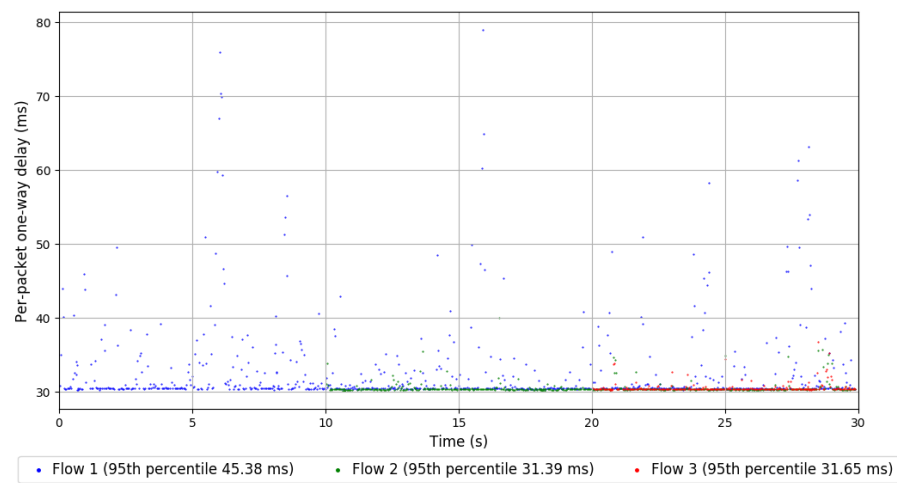
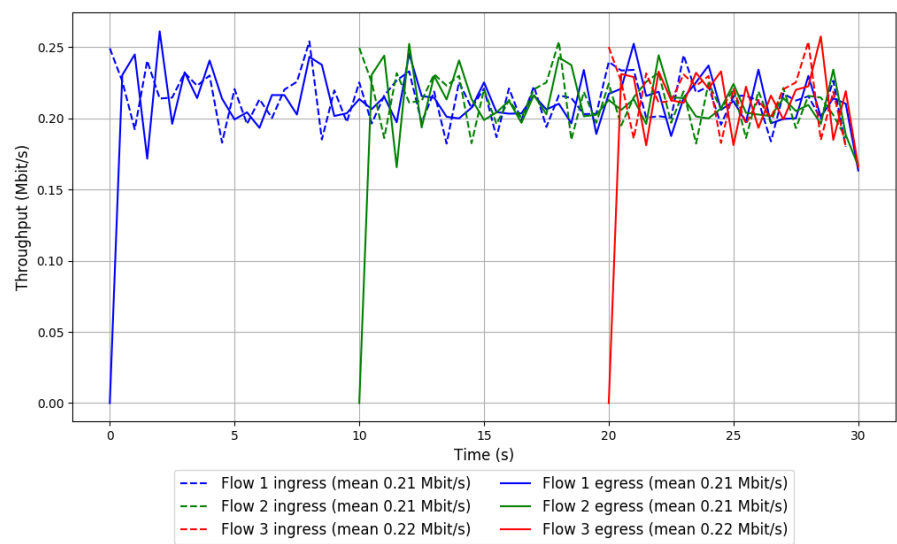
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.647 ms

Loss rate: 0.71%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-11-24 16:52:34

End at: 2019-11-24 16:53:04

Local clock offset: 3.464 ms

Remote clock offset: 4.087 ms

# Below is generated by plot.py at 2019-11-25 06:28:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 41.717 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 11.83 Mbit/s

95th percentile per-packet one-way delay: 41.415 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 41.833 ms

Loss rate: 0.41%

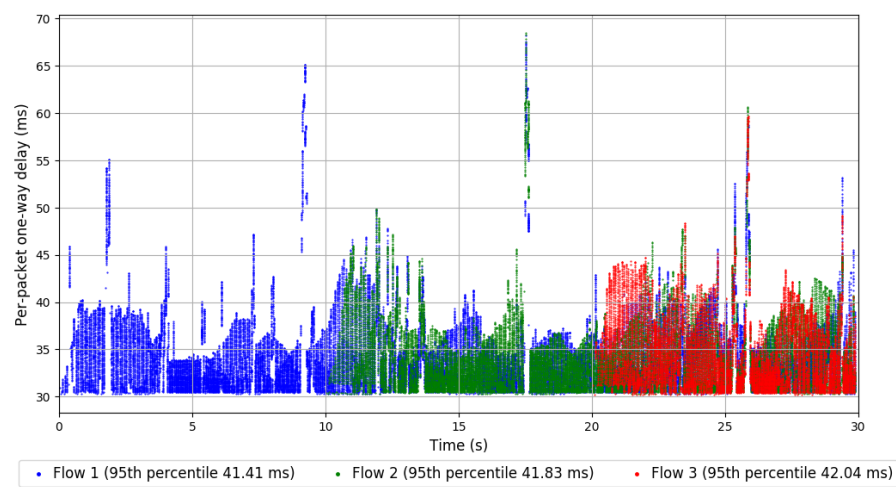
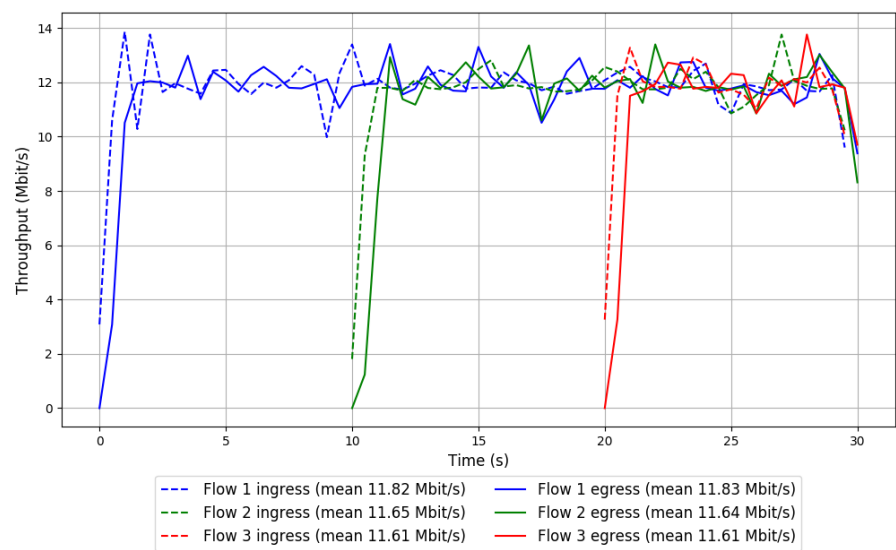
-- Flow 3:

Average throughput: 11.61 Mbit/s

95th percentile per-packet one-way delay: 42.037 ms

Loss rate: 0.53%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-11-24 19:13:27

End at: 2019-11-24 19:13:57

Local clock offset: 3.17 ms

Remote clock offset: 3.15 ms

# Below is generated by plot.py at 2019-11-25 06:28:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 22.11 Mbit/s

95th percentile per-packet one-way delay: 57.831 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 10.85 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 44.122 ms

Loss rate: 0.49%

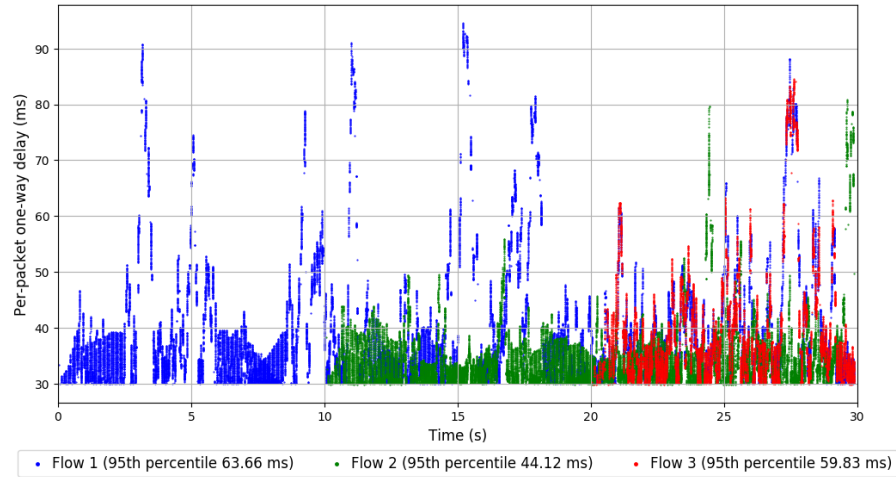
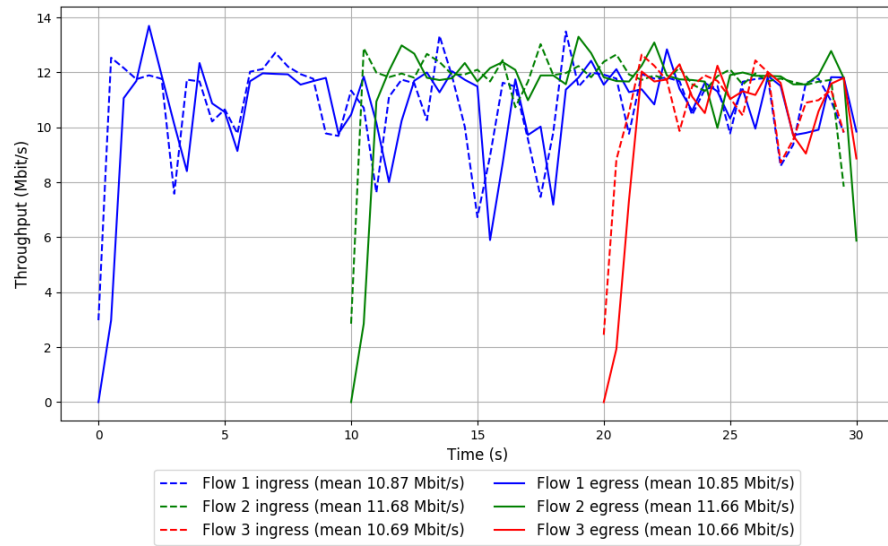
-- Flow 3:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 59.834 ms

Loss rate: 0.47%

## Run 2: Report of Sprout — Data Link



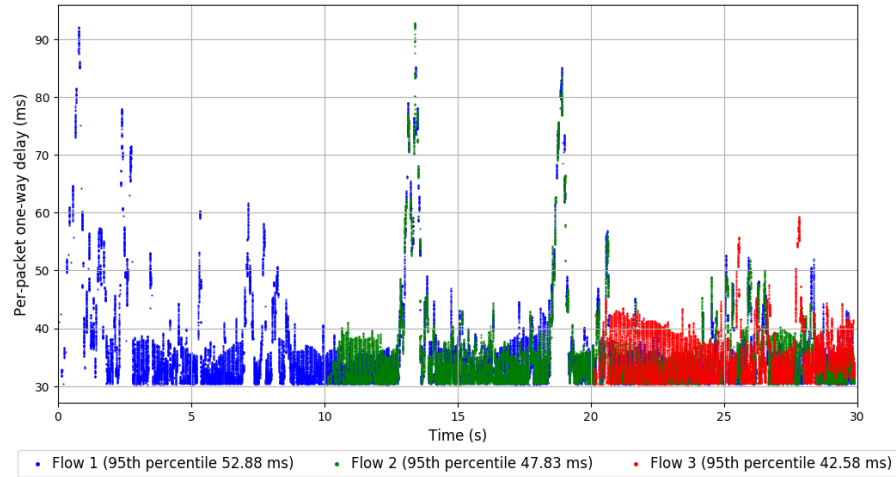
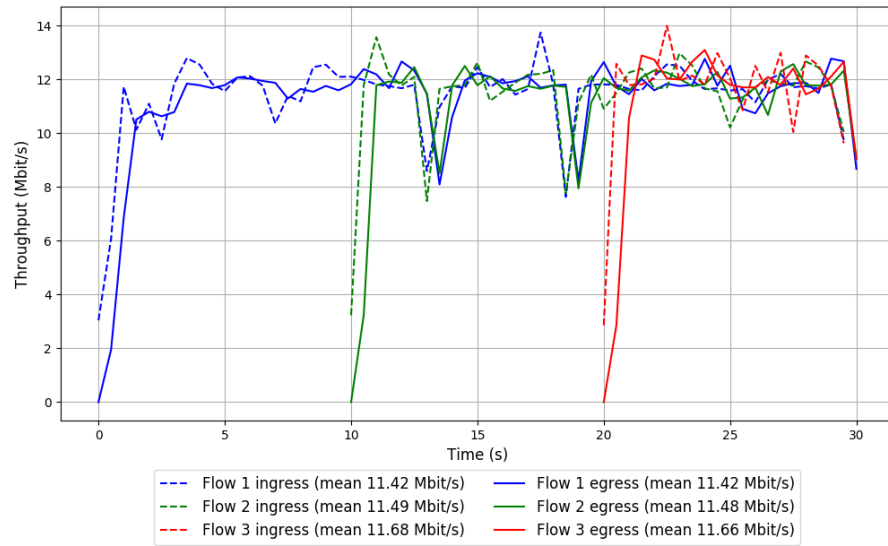


### Run 3: Statistics of Sprout

Start at: 2019-11-25 00:30:04  
End at: 2019-11-25 00:30:34  
Local clock offset: 2.503 ms  
Remote clock offset: 4.863 ms

```
# Below is generated by plot.py at 2019-11-25 06:28:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 49.538 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 52.876 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 47.831 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 42.582 ms
Loss rate: 0.58%
```

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

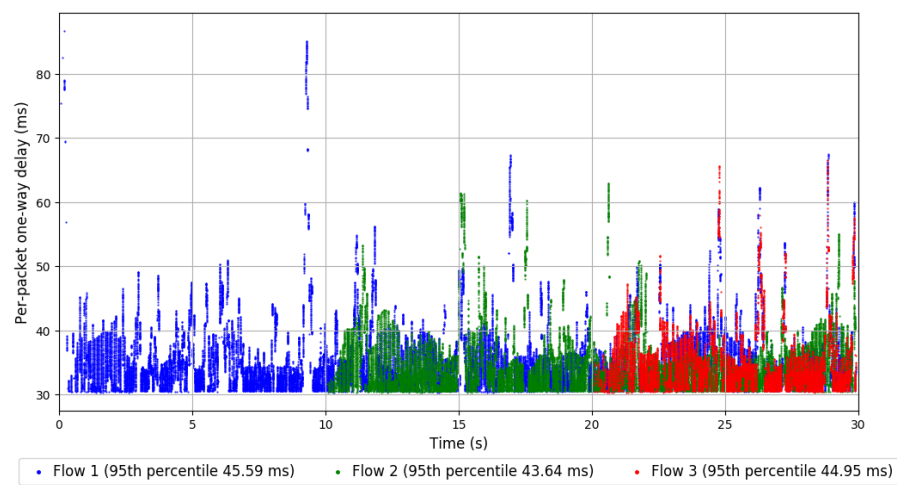
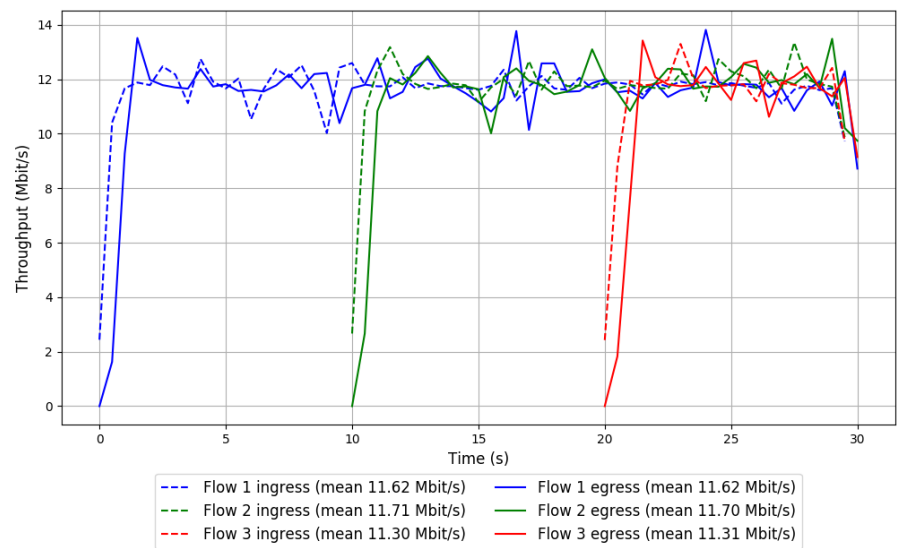


#### Run 4: Statistics of Sprout

Start at: 2019-11-25 03:35:10  
End at: 2019-11-25 03:35:40  
Local clock offset: 3.802 ms  
Remote clock offset: 4.942 ms

```
# Below is generated by plot.py at 2019-11-25 06:28:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.12 Mbit/s
95th percentile per-packet one-way delay: 44.852 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 45.591 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 43.637 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 44.954 ms
Loss rate: 0.55%
```

Run 4: Report of Sprout — Data Link

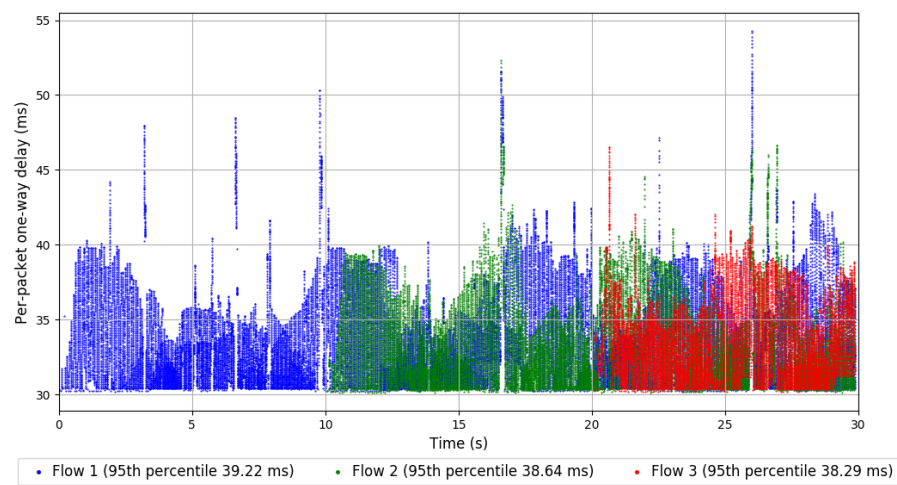
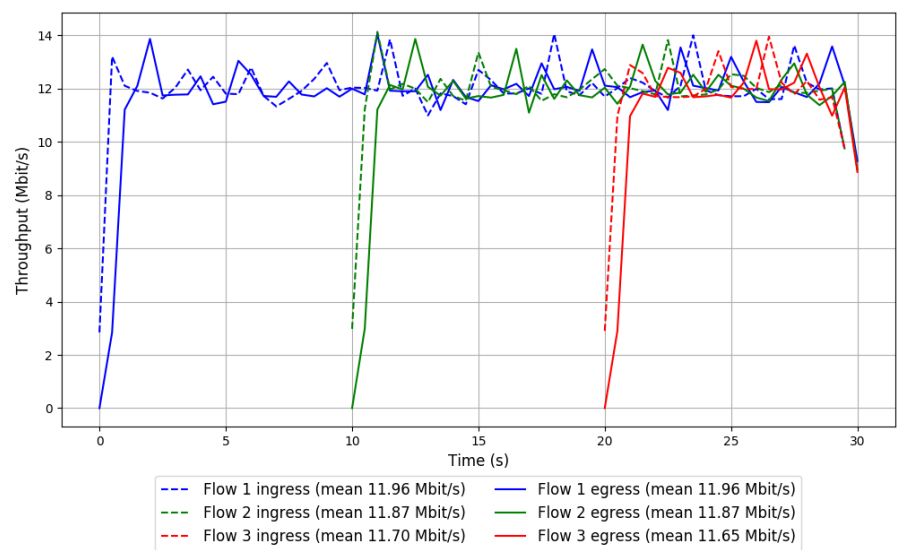


Run 5: Statistics of Sprout

Start at: 2019-11-25 05:52:25  
End at: 2019-11-25 05:52:55  
Local clock offset: 3.134 ms  
Remote clock offset: 4.073 ms

# Below is generated by plot.py at 2019-11-25 06:28:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.68 Mbit/s  
95th percentile per-packet one-way delay: 38.862 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 11.96 Mbit/s  
95th percentile per-packet one-way delay: 39.222 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 11.87 Mbit/s  
95th percentile per-packet one-way delay: 38.642 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 11.65 Mbit/s  
95th percentile per-packet one-way delay: 38.287 ms  
Loss rate: 0.77%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 16:14:15

End at: 2019-11-24 16:14:45

Local clock offset: 3.164 ms

Remote clock offset: 4.045 ms

# Below is generated by plot.py at 2019-11-25 06:30:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 100.941 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 97.537 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 26.34 Mbit/s

95th percentile per-packet one-way delay: 118.578 ms

Loss rate: 0.19%

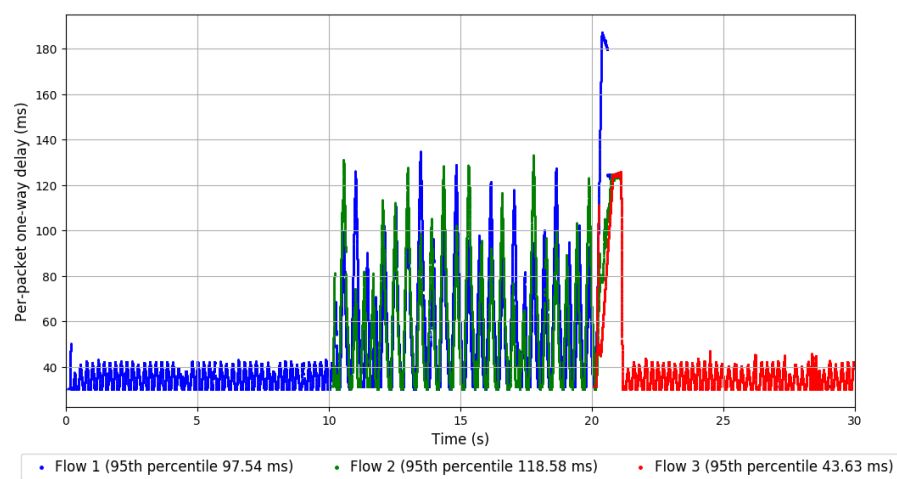
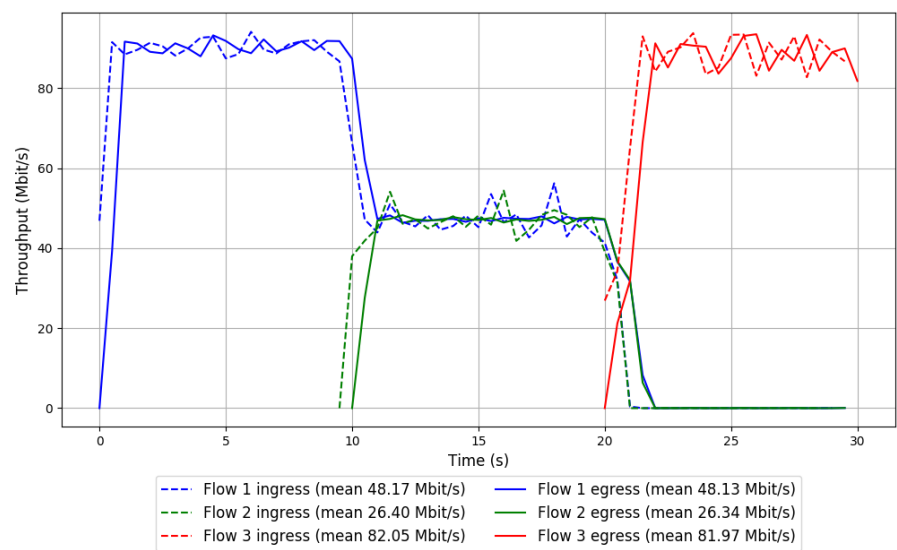
-- Flow 3:

Average throughput: 81.97 Mbit/s

95th percentile per-packet one-way delay: 43.633 ms

Loss rate: 0.74%

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





Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 17:36:51

End at: 2019-11-24 17:37:21

Local clock offset: 4.32 ms

Remote clock offset: 4.232 ms

# Below is generated by plot.py at 2019-11-25 06:30:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 108.905 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 91.832 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 123.007 ms

Loss rate: 0.15%

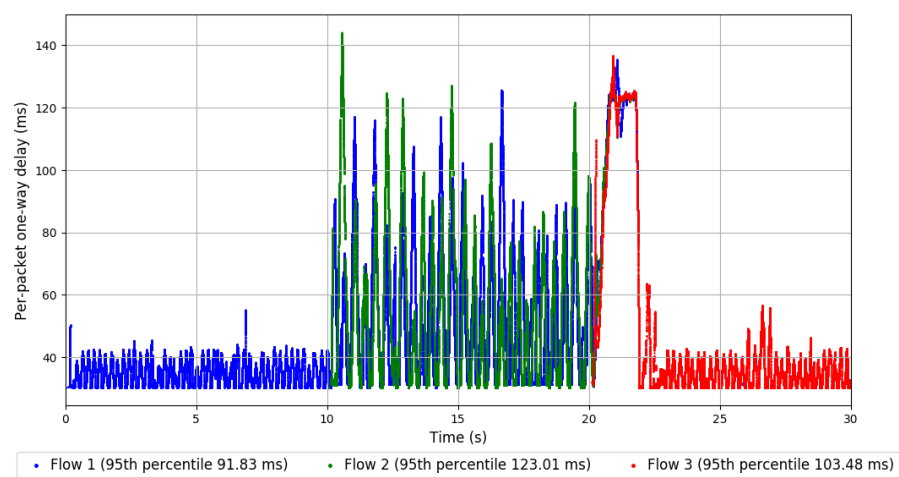
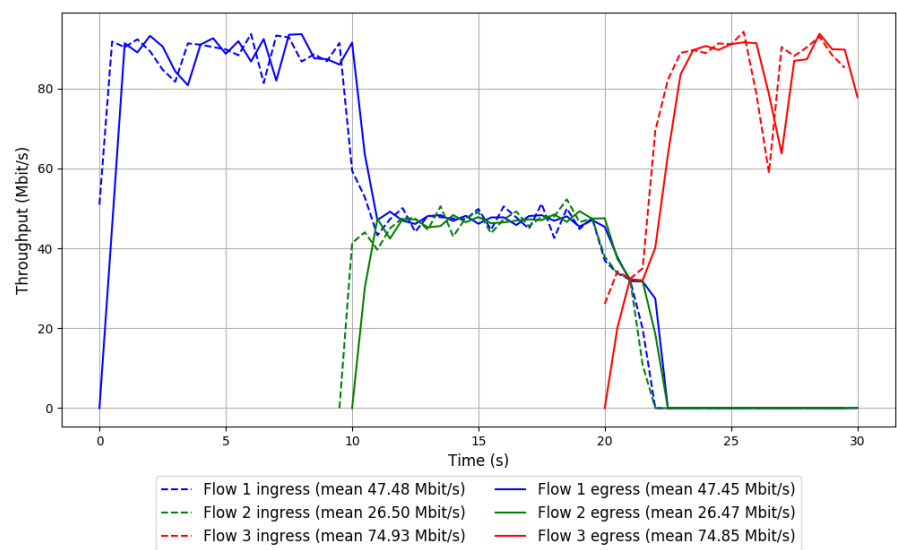
-- Flow 3:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 103.476 ms

Loss rate: 0.88%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 23:33:32

End at: 2019-11-24 23:34:02

Local clock offset: 3.85 ms

Remote clock offset: 7.844 ms

# Below is generated by plot.py at 2019-11-25 06:30:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 106.373 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 95.235 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 24.17 Mbit/s

95th percentile per-packet one-way delay: 112.979 ms

Loss rate: 0.20%

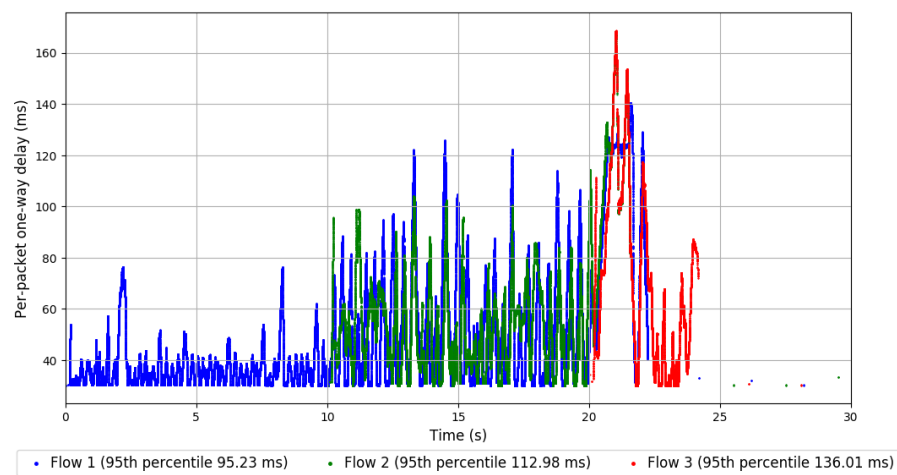
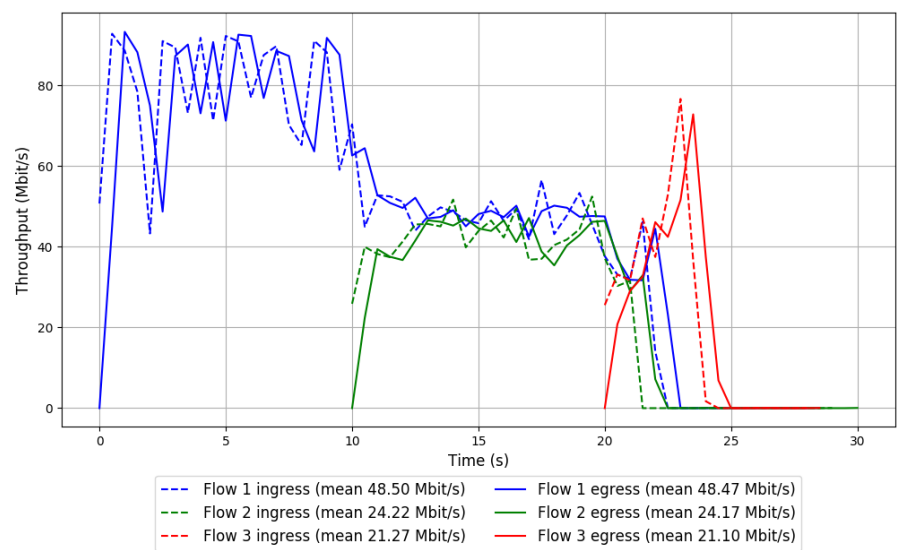
-- Flow 3:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 136.008 ms

Loss rate: 0.90%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-11-25 01:34:03

End at: 2019-11-25 01:34:33

Local clock offset: 3.591 ms

Remote clock offset: 6.117 ms

# Below is generated by plot.py at 2019-11-25 06:30:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 98.802 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 59.17 Mbit/s

95th percentile per-packet one-way delay: 83.461 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 25.77 Mbit/s

95th percentile per-packet one-way delay: 127.215 ms

Loss rate: 0.14%

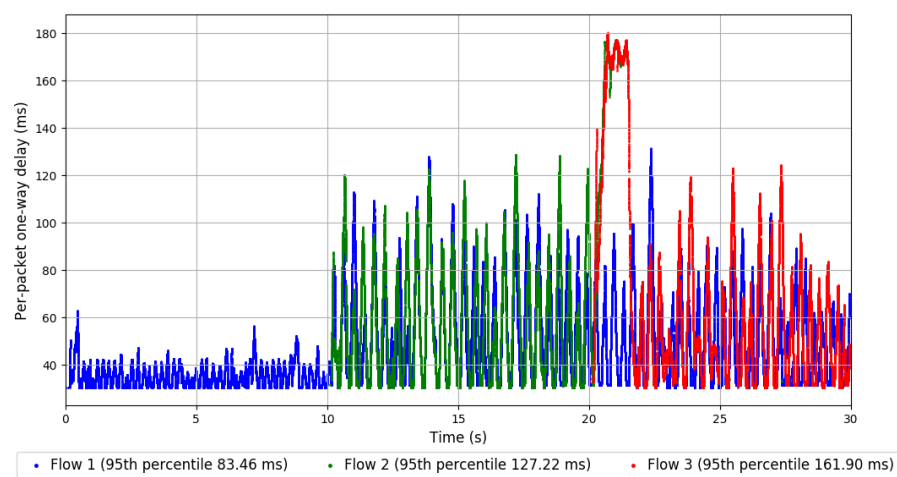
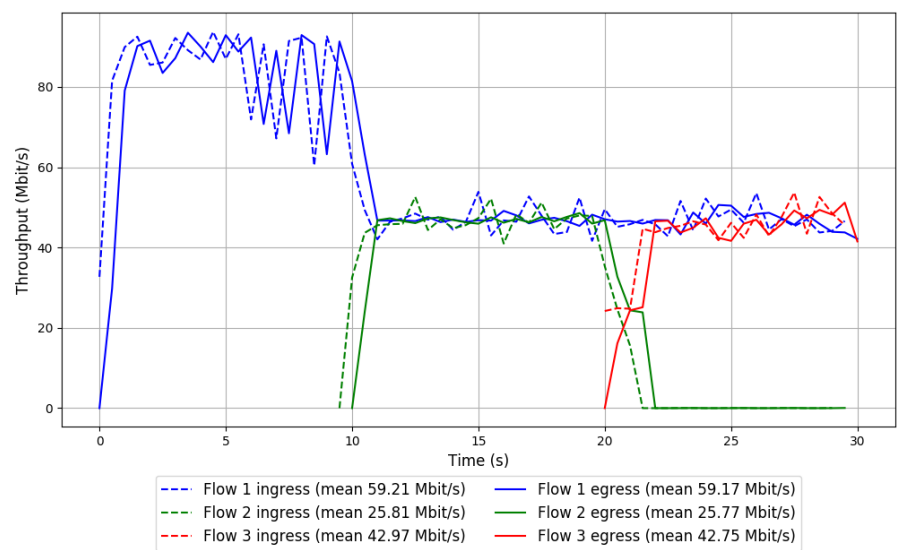
-- Flow 3:

Average throughput: 42.75 Mbit/s

95th percentile per-packet one-way delay: 161.903 ms

Loss rate: 1.19%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-25 05:14:20

End at: 2019-11-25 05:14:50

Local clock offset: 3.627 ms

Remote clock offset: 3.686 ms

# Below is generated by plot.py at 2019-11-25 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.26 Mbit/s

95th percentile per-packet one-way delay: 96.352 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 94.468 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 130.946 ms

Loss rate: 0.08%

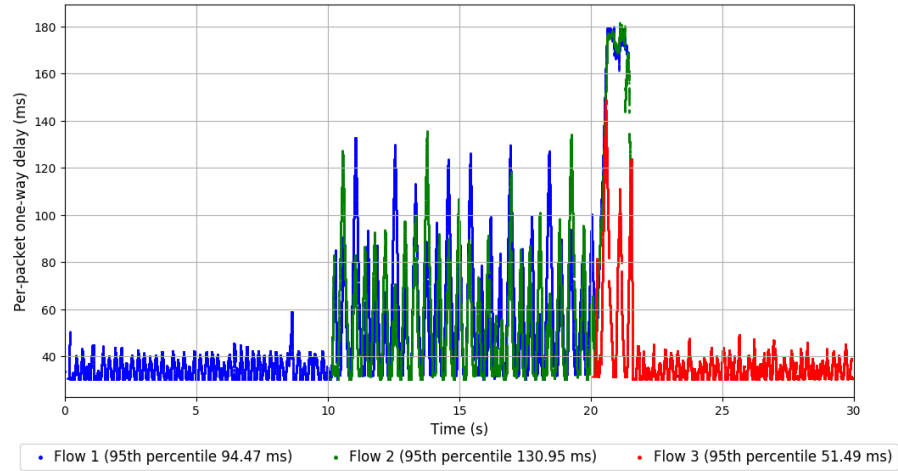
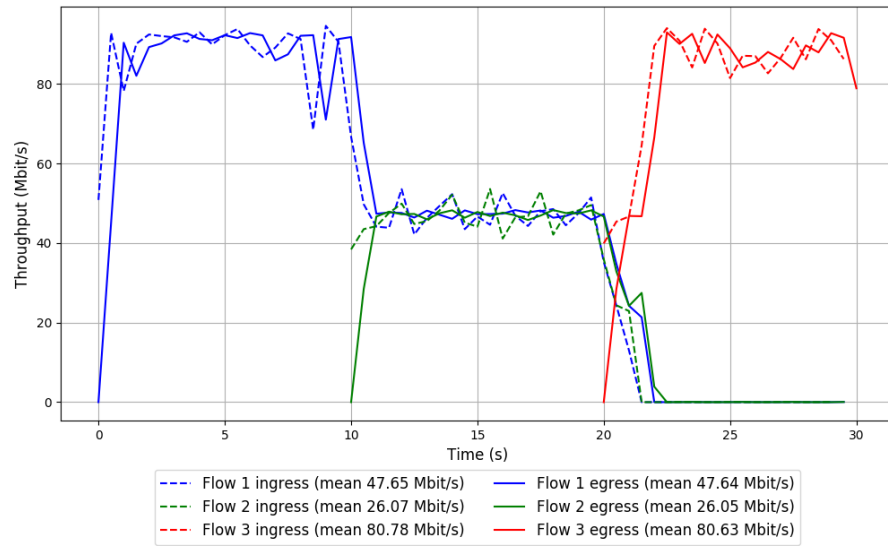
-- Flow 3:

Average throughput: 80.63 Mbit/s

95th percentile per-packet one-way delay: 51.495 ms

Loss rate: 0.84%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 16:09:41

End at: 2019-11-24 16:10:11

Local clock offset: 2.971 ms

Remote clock offset: 4.057 ms

# Below is generated by plot.py at 2019-11-25 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.00 Mbit/s

95th percentile per-packet one-way delay: 39.840 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 40.177 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 29.11 Mbit/s

95th percentile per-packet one-way delay: 40.341 ms

Loss rate: 0.27%

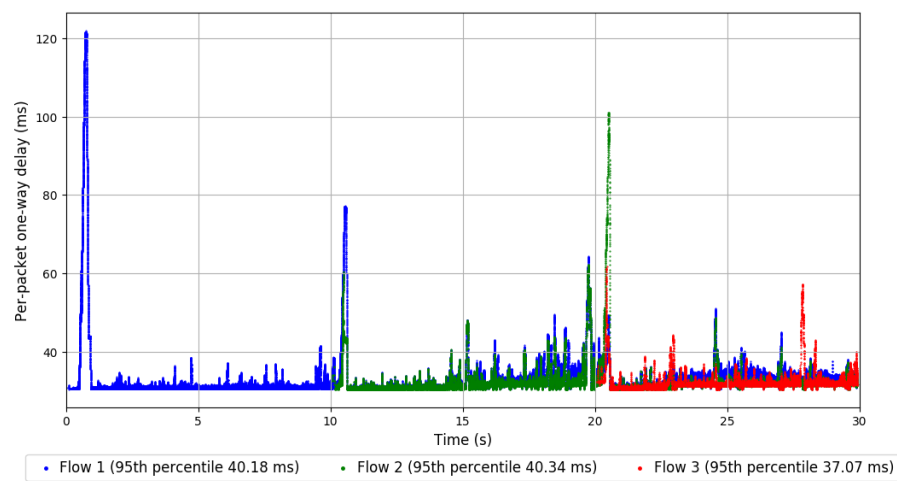
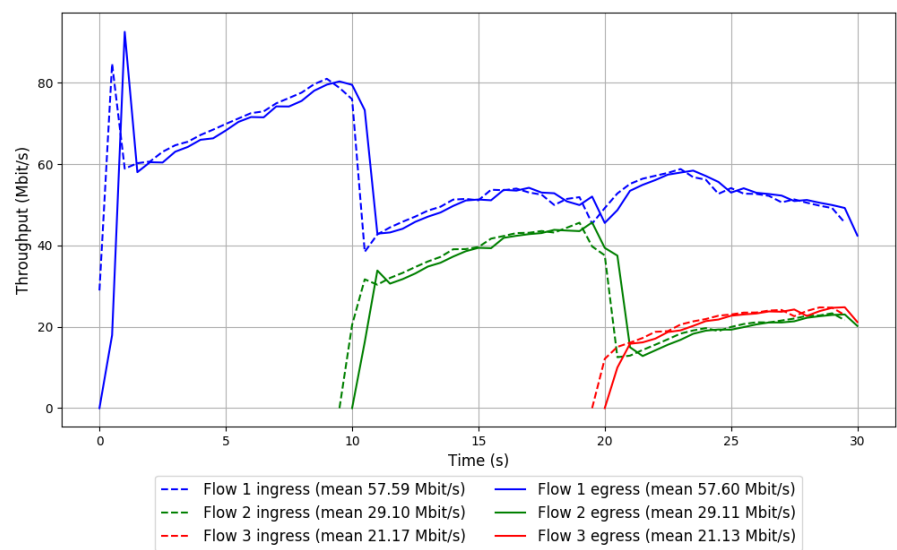
-- Flow 3:

Average throughput: 21.13 Mbit/s

95th percentile per-packet one-way delay: 37.072 ms

Loss rate: 0.84%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 17:31:11

End at: 2019-11-24 17:31:41

Local clock offset: 4.258 ms

Remote clock offset: 4.287 ms

# Below is generated by plot.py at 2019-11-25 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.88 Mbit/s

95th percentile per-packet one-way delay: 38.310 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 40.808 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 38.538 ms

Loss rate: 0.27%

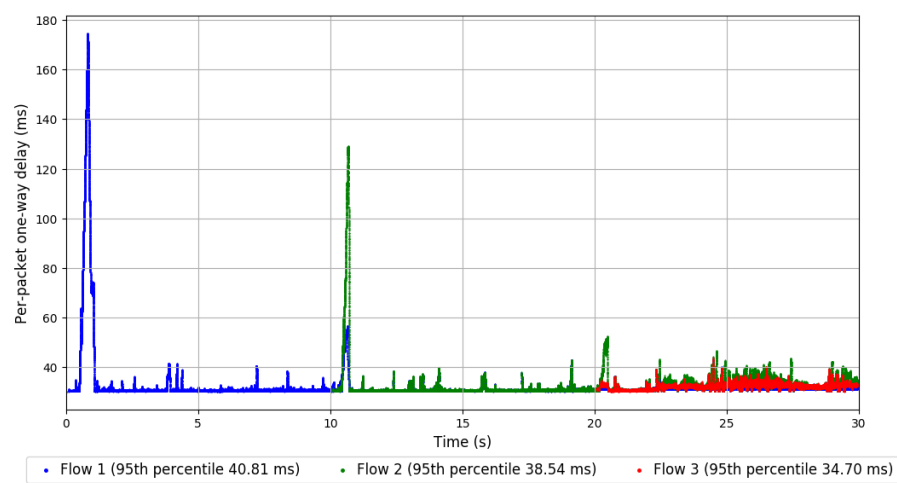
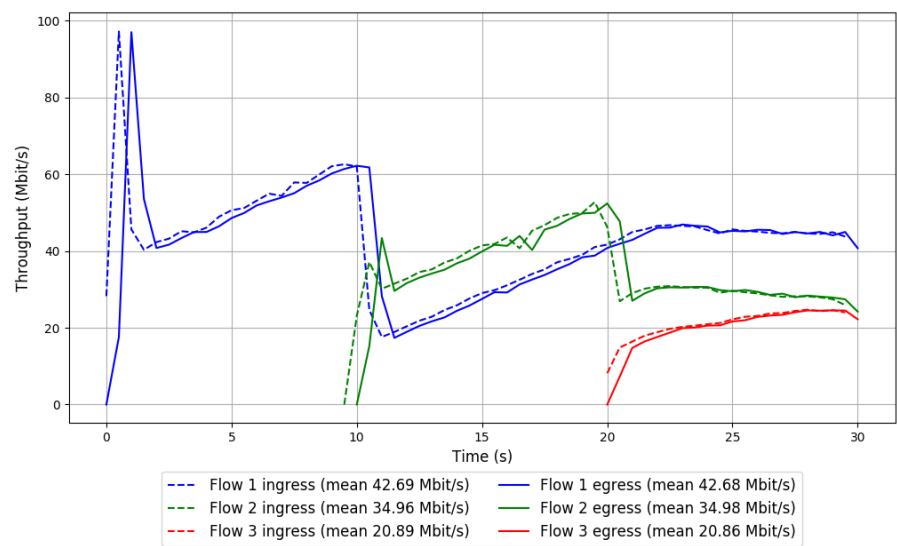
-- Flow 3:

Average throughput: 20.86 Mbit/s

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

Loss rate: 0.80%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 23:23:04

End at: 2019-11-24 23:23:34

Local clock offset: 3.801 ms

Remote clock offset: 11.36 ms

# Below is generated by plot.py at 2019-11-25 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 63.646 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 29.40 Mbit/s

95th percentile per-packet one-way delay: 67.275 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 65.282 ms

Loss rate: 0.33%

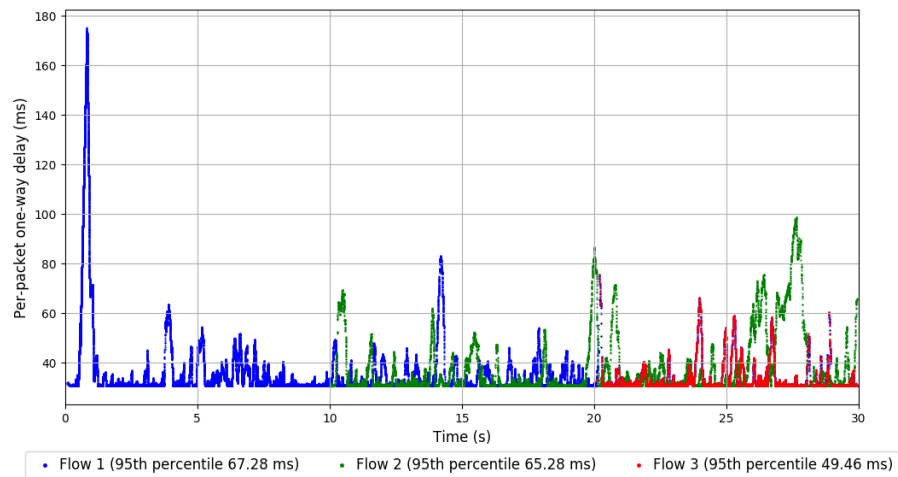
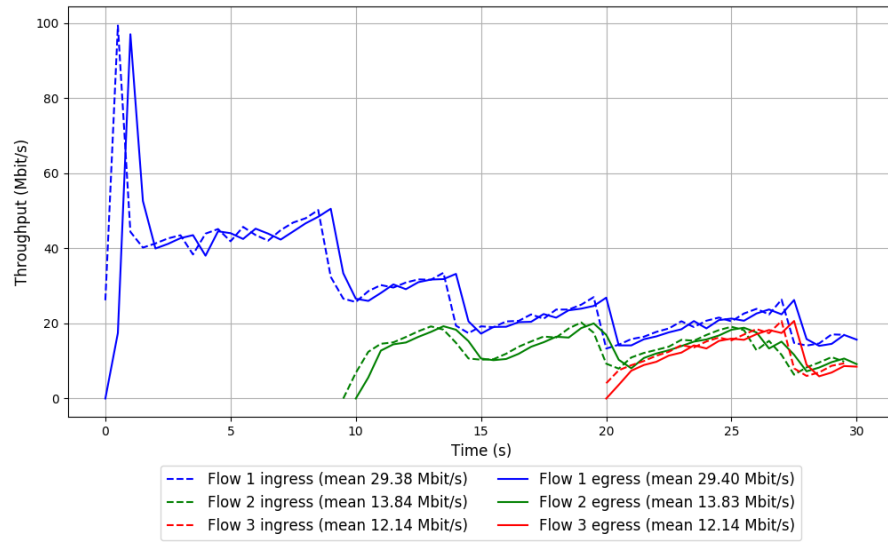
-- Flow 3:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 49.459 ms

Loss rate: 0.60%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-11-25 01:27:41

End at: 2019-11-25 01:28:11

Local clock offset: 3.516 ms

Remote clock offset: 6.234 ms

# Below is generated by plot.py at 2019-11-25 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.64 Mbit/s

95th percentile per-packet one-way delay: 63.893 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 41.55 Mbit/s

95th percentile per-packet one-way delay: 67.514 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 64.342 ms

Loss rate: 0.37%

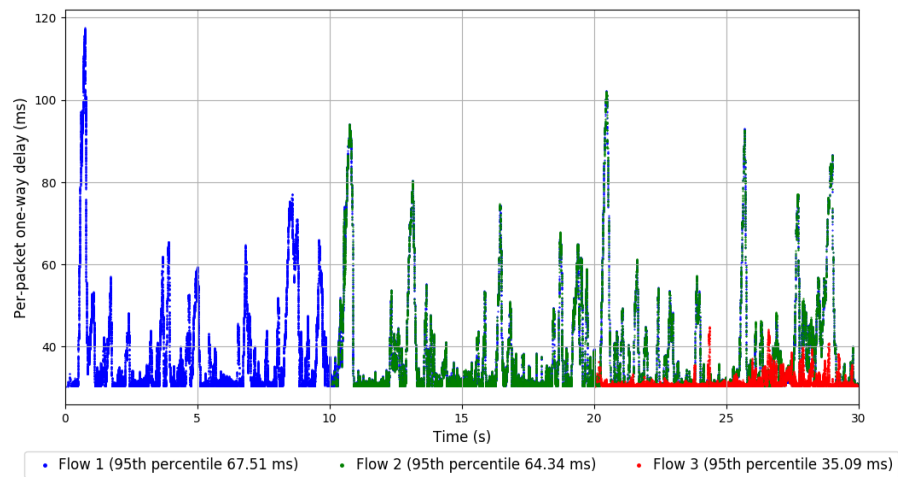
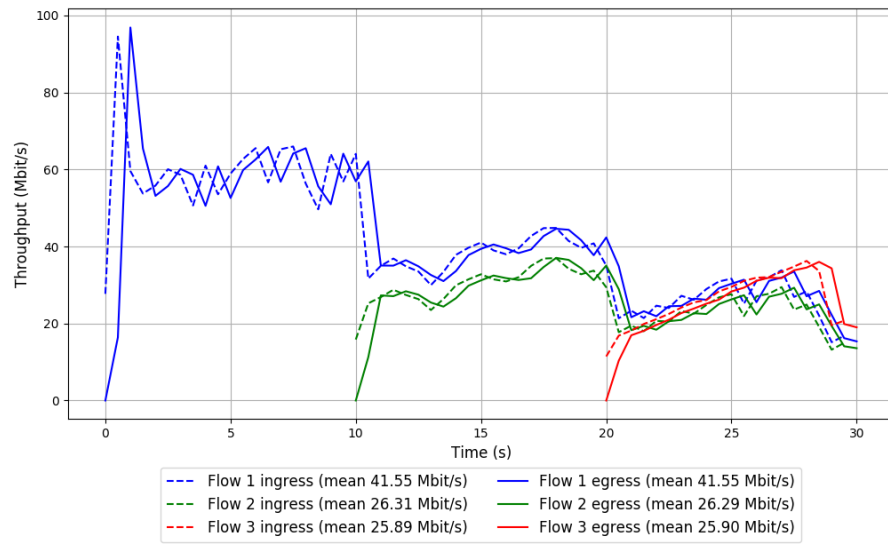
-- Flow 3:

Average throughput: 25.90 Mbit/s

95th percentile per-packet one-way delay: 35.094 ms

Loss rate: 0.59%

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





Run 5: Statistics of TCP Vegas

Start at: 2019-11-25 05:09:36

End at: 2019-11-25 05:10:06

Local clock offset: 4.031 ms

Remote clock offset: 3.759 ms

# Below is generated by plot.py at 2019-11-25 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.82 Mbit/s

95th percentile per-packet one-way delay: 49.841 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 49.717 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 49.653 ms

Loss rate: 0.36%

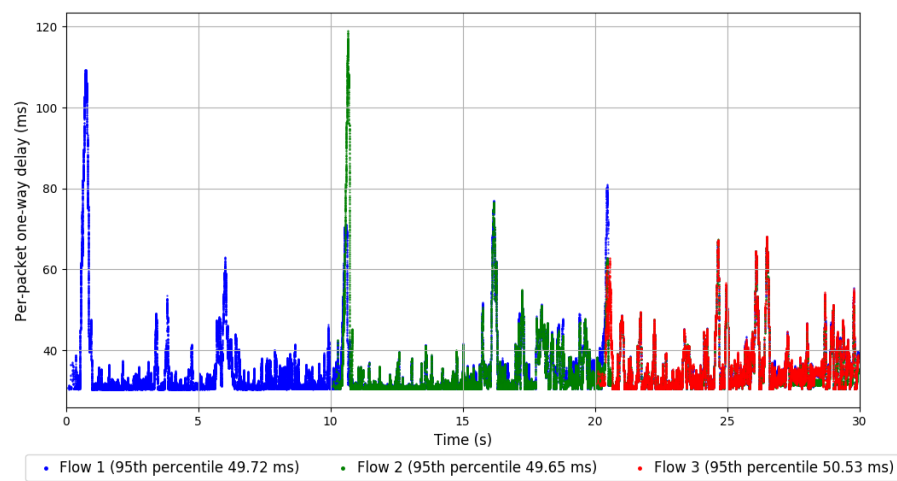
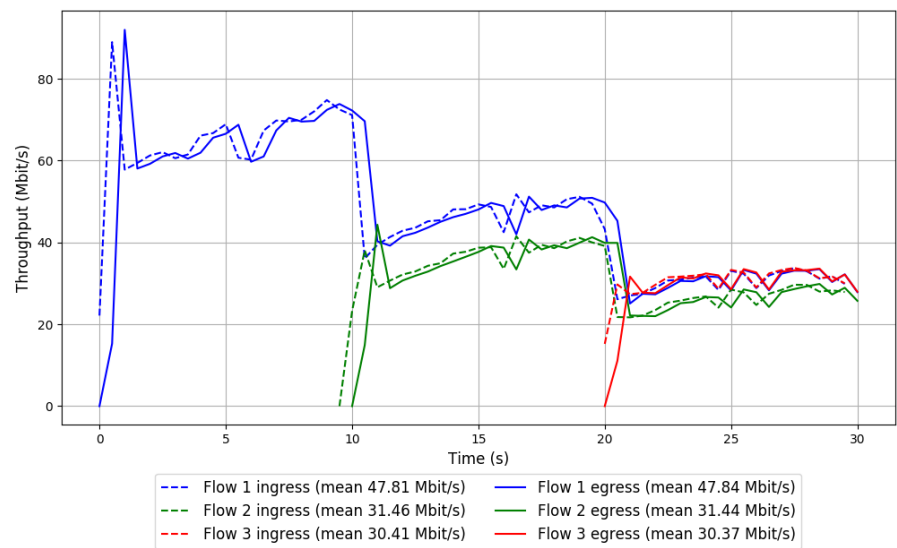
-- Flow 3:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.76%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-11-24 15:59:51

End at: 2019-11-24 16:00:21

Local clock offset: 3.016 ms

Remote clock offset: 3.824 ms

# Below is generated by plot.py at 2019-11-25 06:30:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.92 Mbit/s

95th percentile per-packet one-way delay: 163.781 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 163.104 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 108.929 ms

Loss rate: 0.64%

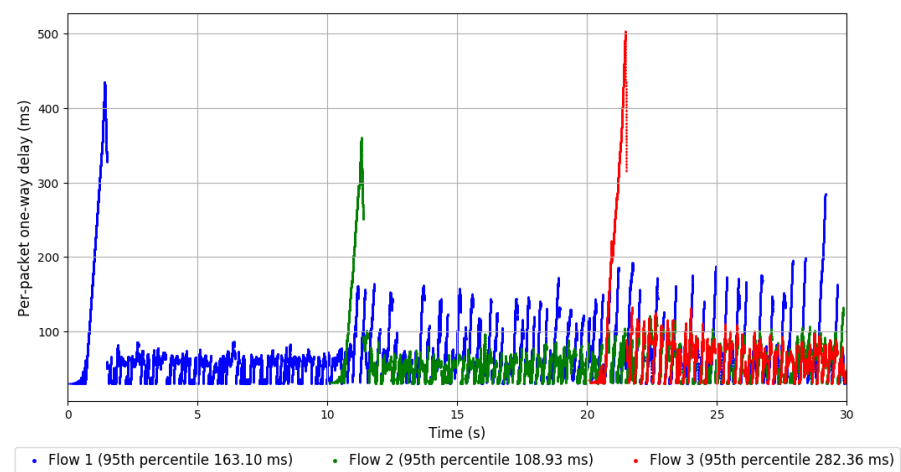
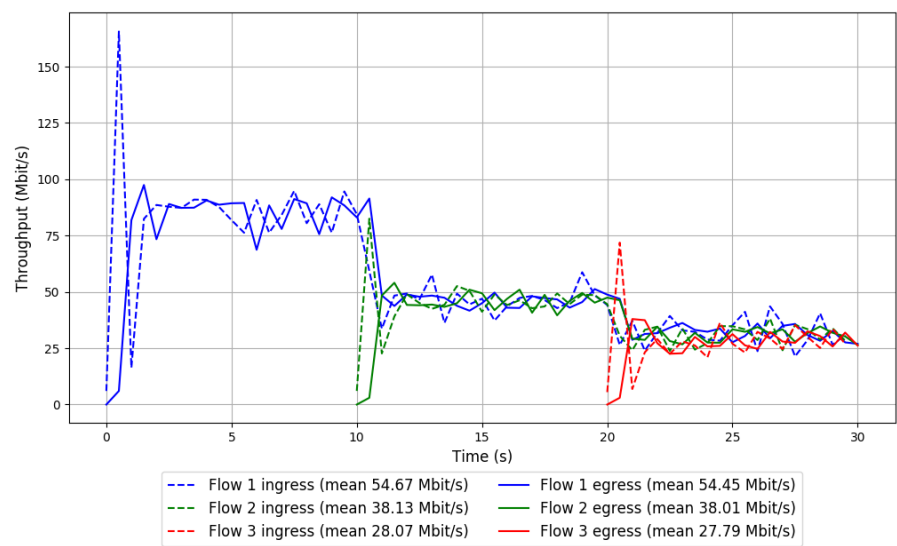
-- Flow 3:

Average throughput: 27.79 Mbit/s

95th percentile per-packet one-way delay: 282.355 ms

Loss rate: 1.52%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-11-24 17:22:27

End at: 2019-11-24 17:22:57

Local clock offset: 4.08 ms

Remote clock offset: 4.185 ms

# Below is generated by plot.py at 2019-11-25 06:31:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 151.600 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 133.576 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 127.380 ms

Loss rate: 0.23%

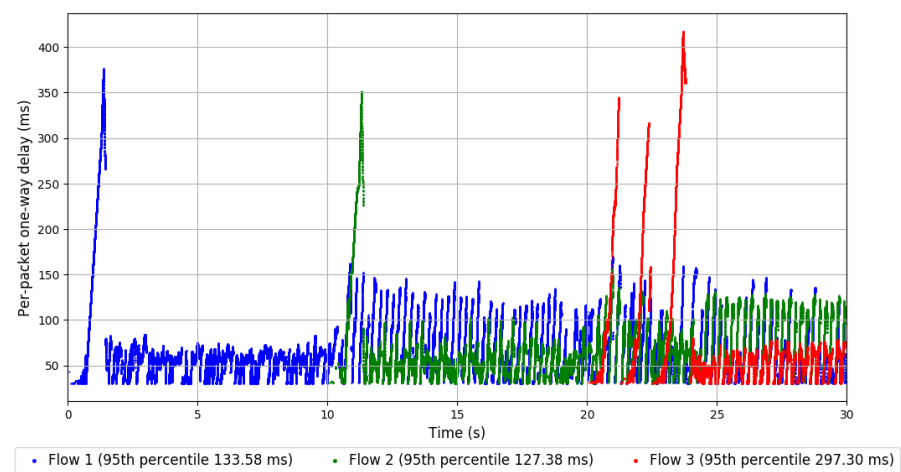
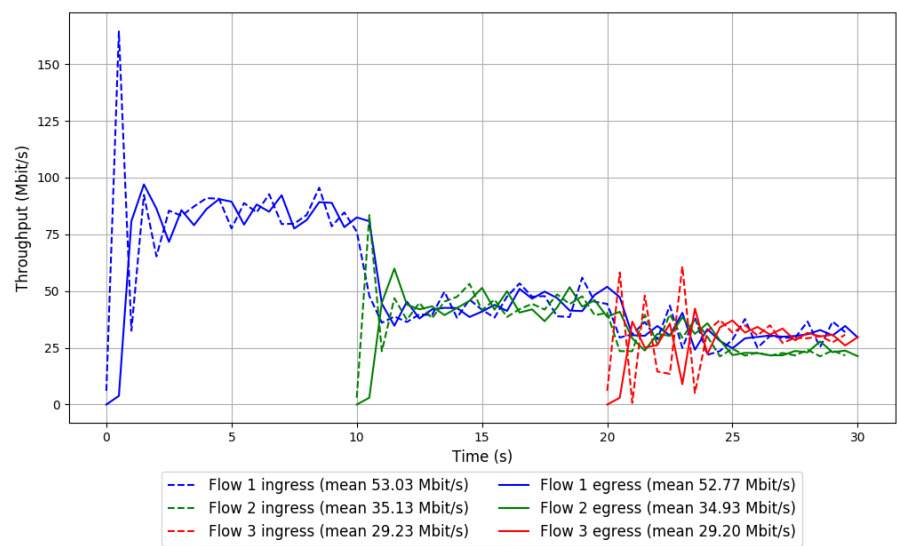
-- Flow 3:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 297.298 ms

Loss rate: 0.86%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-11-24 22:54:57

End at: 2019-11-24 22:55:27

Local clock offset: 3.408 ms

Remote clock offset: 7.422 ms

# Below is generated by plot.py at 2019-11-25 06:31:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.22 Mbit/s

95th percentile per-packet one-way delay: 140.808 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 152.414 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 44.68 Mbit/s

95th percentile per-packet one-way delay: 99.898 ms

Loss rate: 0.53%

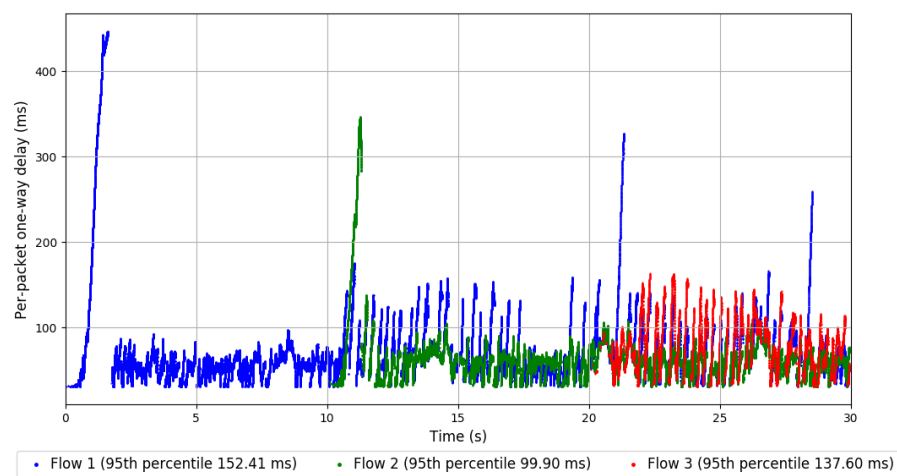
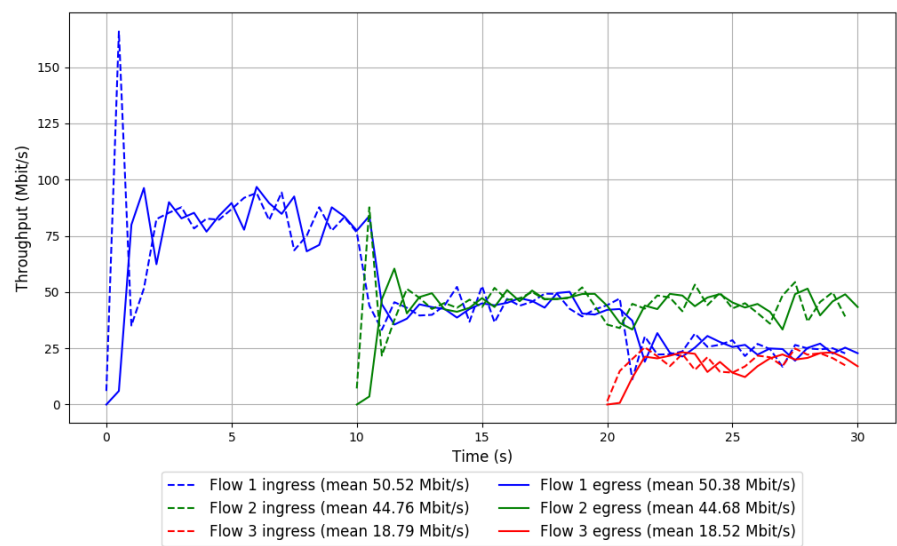
-- Flow 3:

Average throughput: 18.52 Mbit/s

95th percentile per-packet one-way delay: 137.599 ms

Loss rate: 1.92%

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-11-25 01:12:39

End at: 2019-11-25 01:13:09

Local clock offset: 3.254 ms

Remote clock offset: 5.795 ms

# Below is generated by plot.py at 2019-11-25 06:31:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 148.471 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 142.465 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 137.001 ms

Loss rate: 0.65%

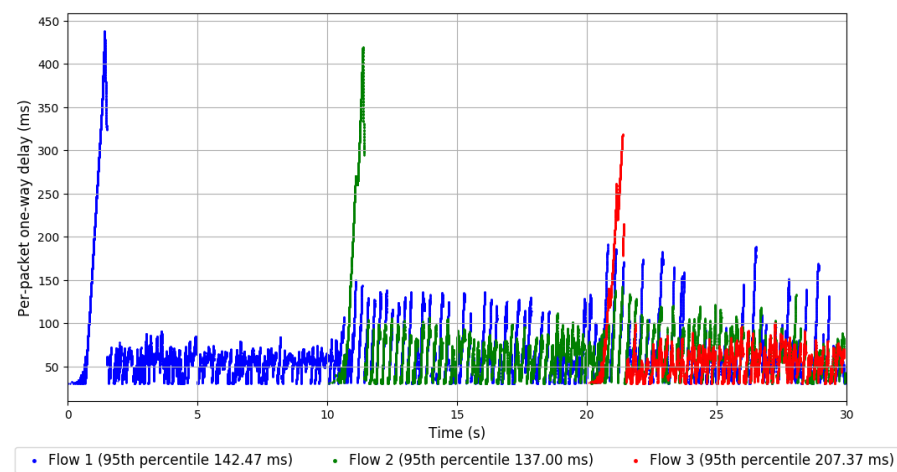
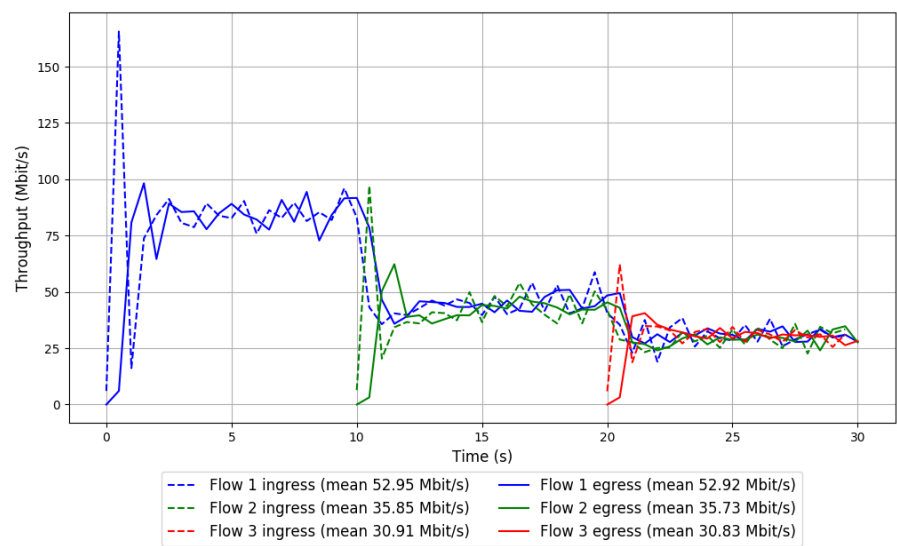
-- Flow 3:

Average throughput: 30.83 Mbit/s

95th percentile per-packet one-way delay: 207.367 ms

Loss rate: 1.21%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-11-25 04:58:46

End at: 2019-11-25 04:59:16

Local clock offset: 4.019 ms

Remote clock offset: 3.679 ms

# Below is generated by plot.py at 2019-11-25 06:31:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 154.937 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 85.842 ms

Loss rate: 0.62%

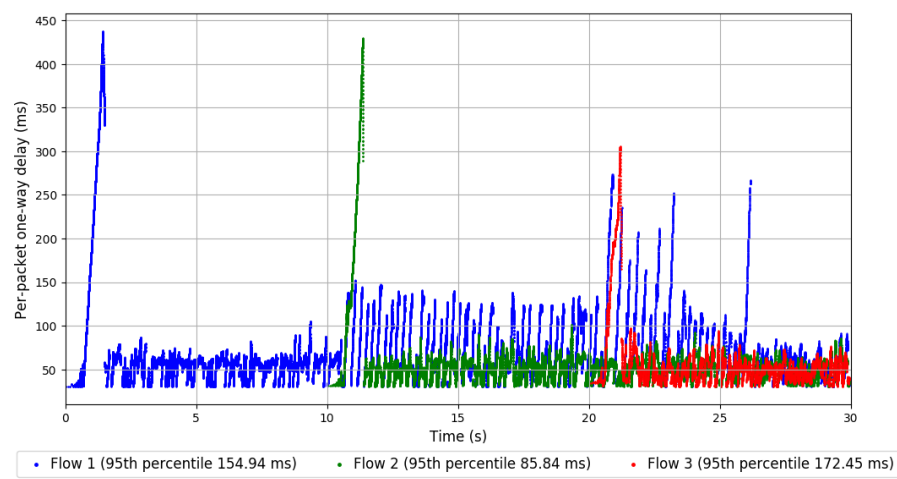
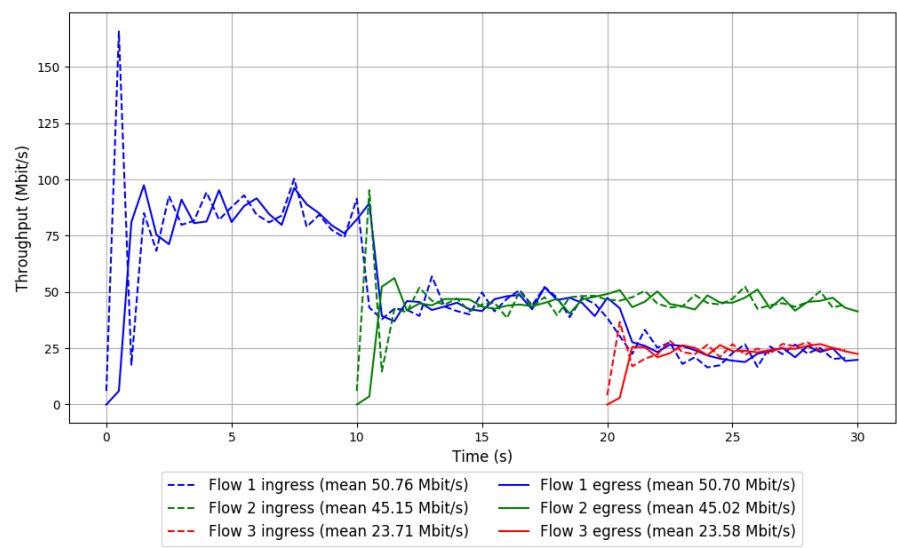
-- Flow 3:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 172.449 ms

Loss rate: 1.18%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 16:34:48

End at: 2019-11-24 16:35:18

Local clock offset: 3.48 ms

Remote clock offset: 4.503 ms

# Below is generated by plot.py at 2019-11-25 06:31:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.67 Mbit/s

95th percentile per-packet one-way delay: 123.467 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 51.39 Mbit/s

95th percentile per-packet one-way delay: 119.183 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 182.998 ms

Loss rate: 0.76%

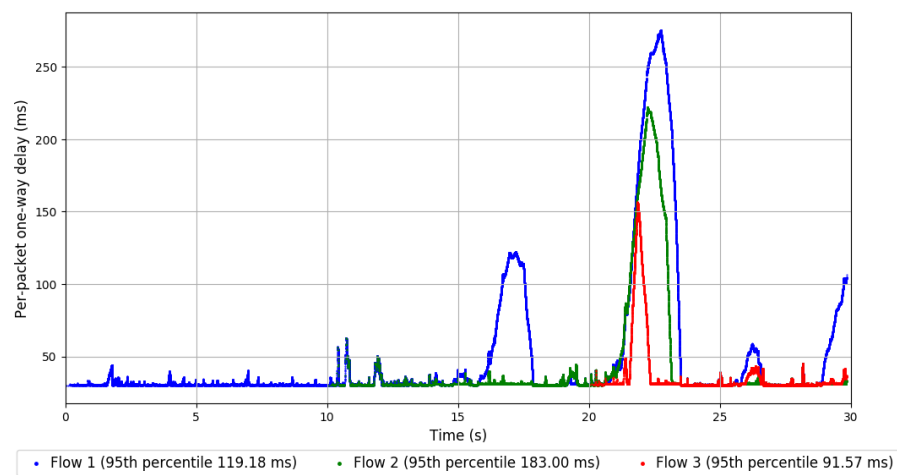
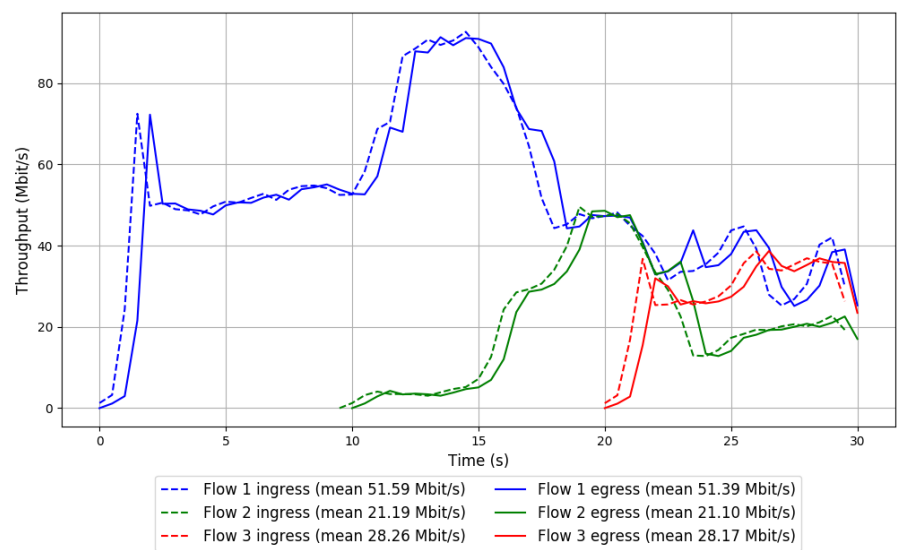
-- Flow 3:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 91.566 ms

Loss rate: 0.98%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 18:18:16

End at: 2019-11-24 18:18:46

Local clock offset: 4.429 ms

Remote clock offset: 4.048 ms

# Below is generated by plot.py at 2019-11-25 06:31:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 41.71 Mbit/s

95th percentile per-packet one-way delay: 124.677 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 145.582 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 49.549 ms

Loss rate: 0.62%

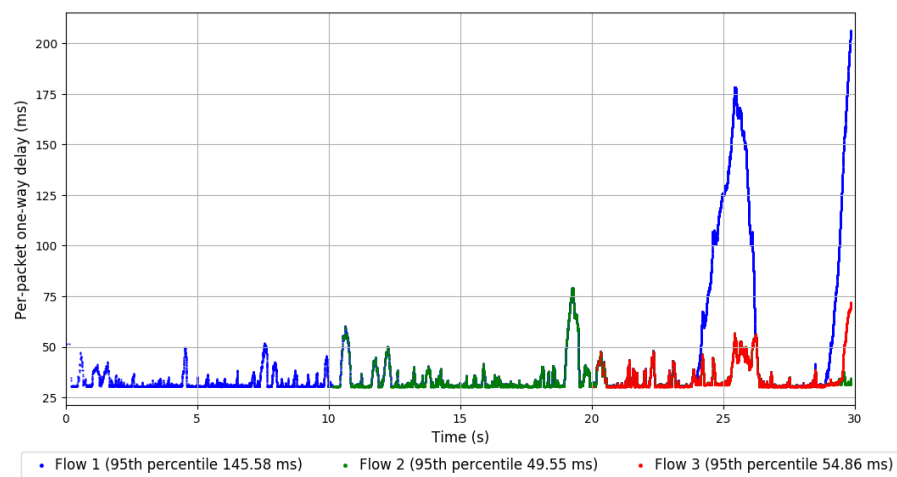
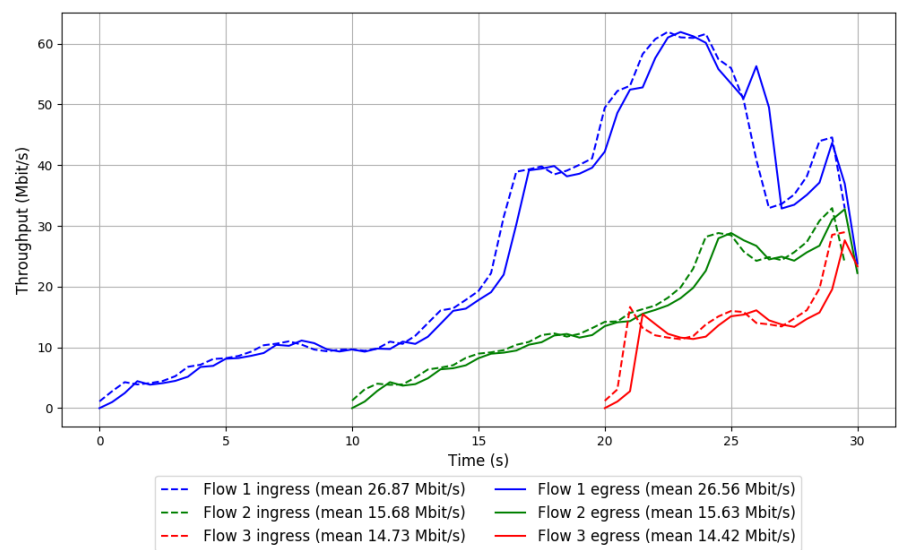
-- Flow 3:

Average throughput: 14.42 Mbit/s

95th percentile per-packet one-way delay: 54.861 ms

Loss rate: 2.75%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-11-25 00:14:06

End at: 2019-11-25 00:14:36

Local clock offset: 3.225 ms

Remote clock offset: 5.345 ms

# Below is generated by plot.py at 2019-11-25 06:31:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.91 Mbit/s

95th percentile per-packet one-way delay: 1517.464 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 64.70 Mbit/s

95th percentile per-packet one-way delay: 1550.948 ms

Loss rate: 2.26%

-- Flow 2:

Average throughput: 14.26 Mbit/s

95th percentile per-packet one-way delay: 48.706 ms

Loss rate: 0.47%

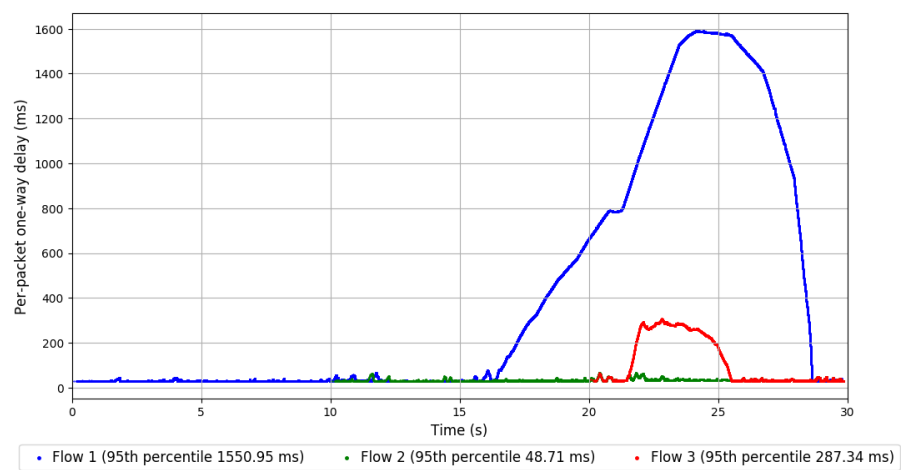
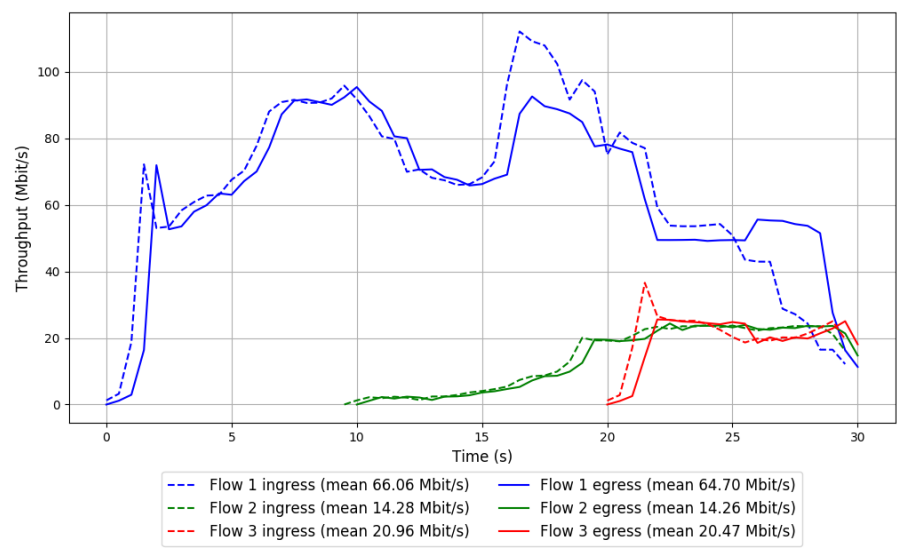
-- Flow 3:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 287.342 ms

Loss rate: 3.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-25 03:02:07

End at: 2019-11-25 03:02:37

Local clock offset: 3.577 ms

Remote clock offset: 3.695 ms

# Below is generated by plot.py at 2019-11-25 06:31:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.46 Mbit/s

95th percentile per-packet one-way delay: 1978.983 ms

Loss rate: 7.12%

-- Flow 1:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 2156.652 ms

Loss rate: 11.21%

-- Flow 2:

Average throughput: 18.06 Mbit/s

95th percentile per-packet one-way delay: 46.689 ms

Loss rate: 0.75%

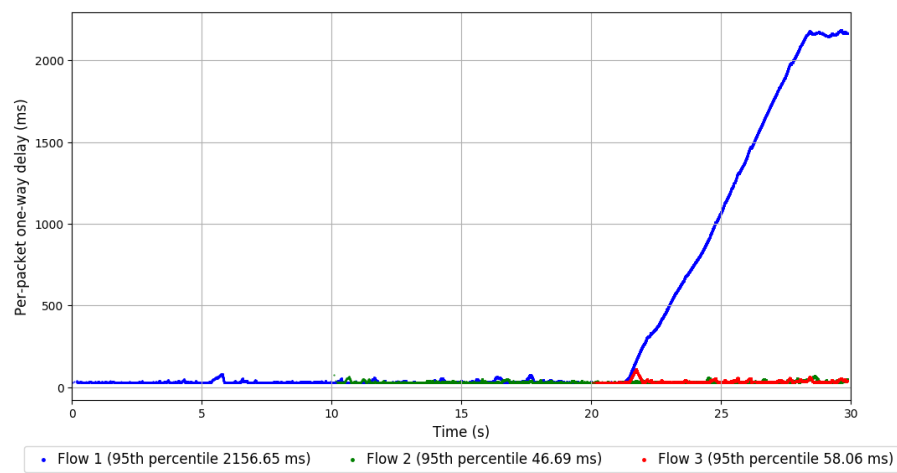
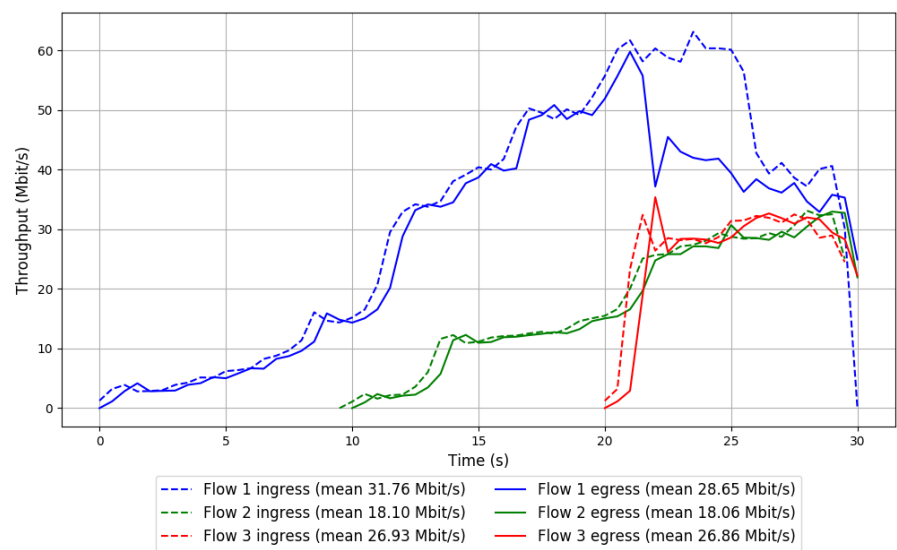
-- Flow 3:

Average throughput: 26.86 Mbit/s

95th percentile per-packet one-way delay: 58.061 ms

Loss rate: 0.91%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-25 05:39:47

End at: 2019-11-25 05:40:17

Local clock offset: 2.979 ms

Remote clock offset: 4.129 ms

# Below is generated by plot.py at 2019-11-25 06:31:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 519.115 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 525.475 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 134.502 ms

Loss rate: 0.48%

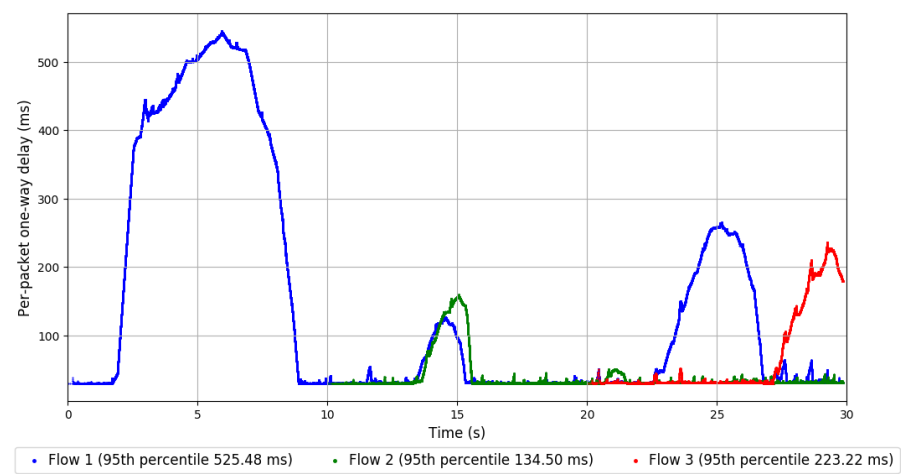
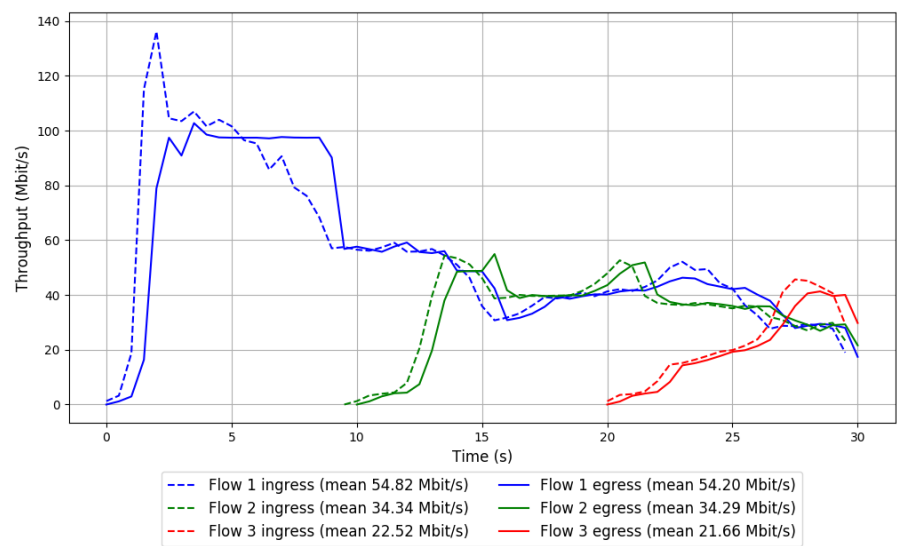
-- Flow 3:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 223.219 ms

Loss rate: 4.44%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-11-24 16:17:26

End at: 2019-11-24 16:17:56

Local clock offset: 3.261 ms

Remote clock offset: 4.169 ms

# Below is generated by plot.py at 2019-11-25 06:31:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 31.479 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 31.461 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 31.764 ms

Loss rate: 0.35%

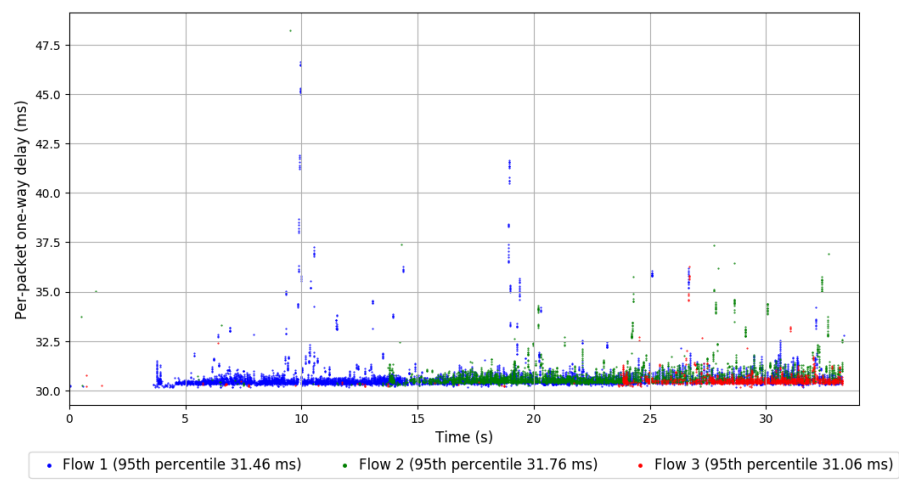
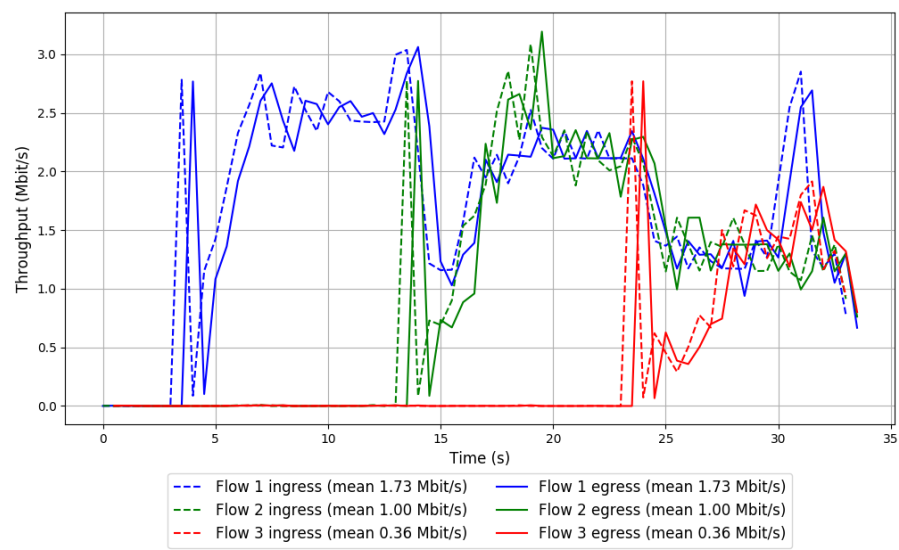
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 31.058 ms

Loss rate: 1.00%

Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-11-24 17:41:23

End at: 2019-11-24 17:41:53

Local clock offset: 4.39 ms

Remote clock offset: 4.27 ms

# Below is generated by plot.py at 2019-11-25 06:31:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 38.371 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 41.645 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 32.488 ms

Loss rate: 0.35%

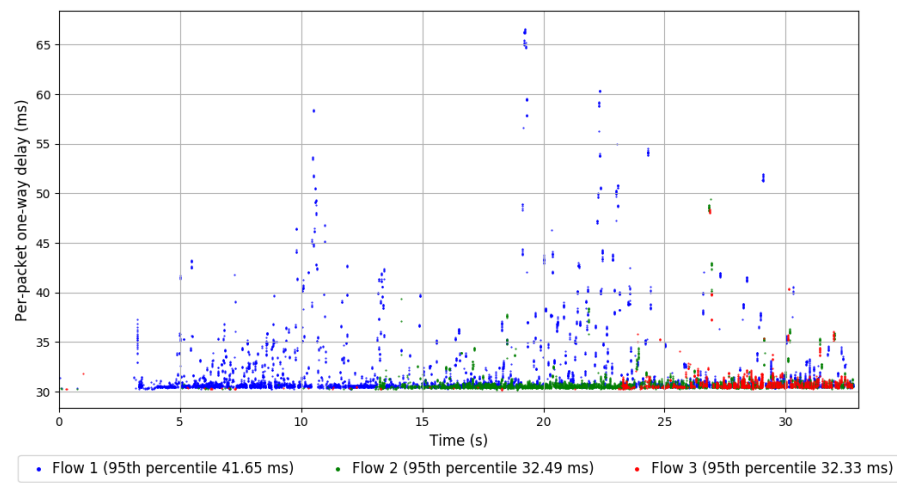
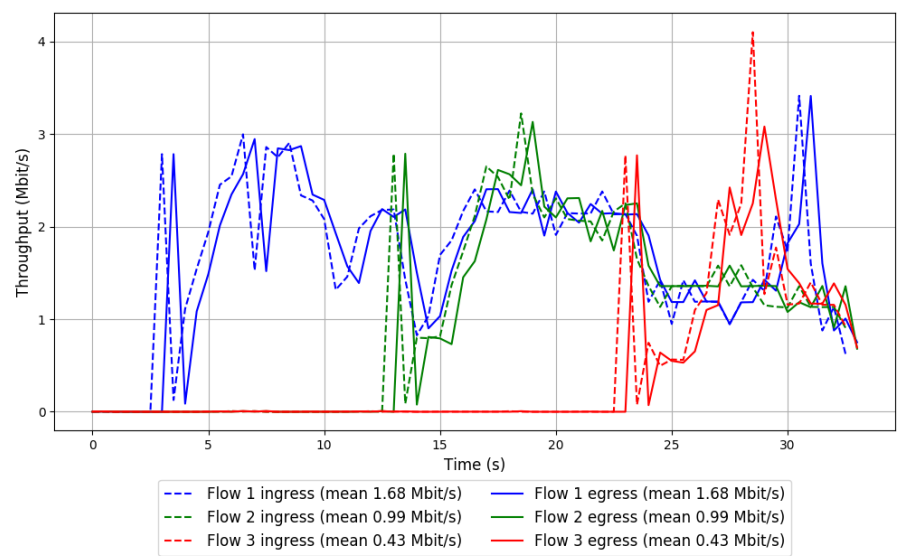
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 32.326 ms

Loss rate: 0.82%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-24 23:44:40

End at: 2019-11-24 23:45:10

Local clock offset: 3.819 ms

Remote clock offset: 5.614 ms

# Below is generated by plot.py at 2019-11-25 06:31:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 46.465 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 38.738 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 40.886 ms

Loss rate: 0.34%

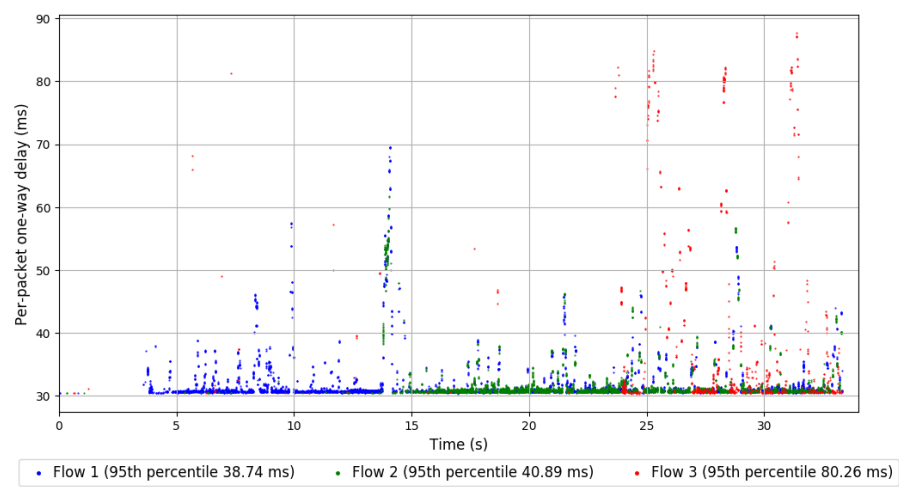
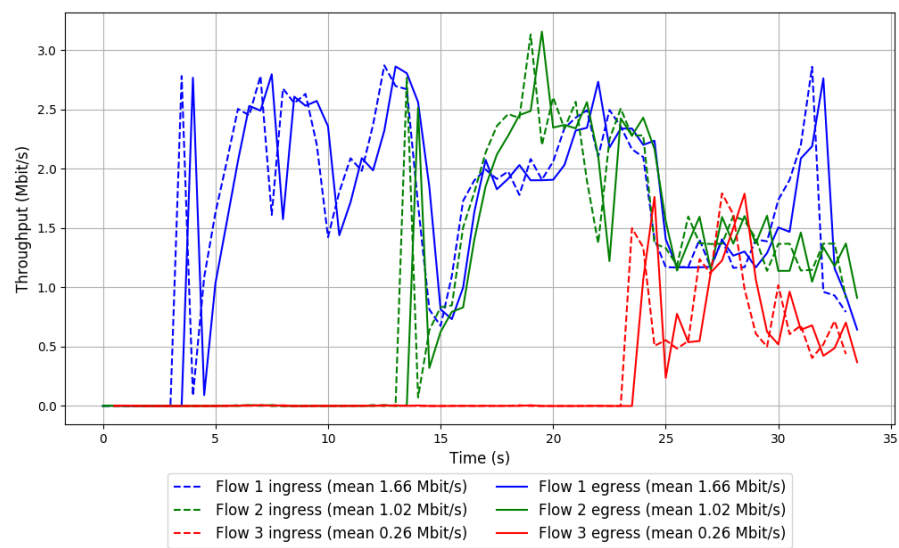
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 80.262 ms

Loss rate: 0.66%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-11-25 01:46:03

End at: 2019-11-25 01:46:33

Local clock offset: 4.025 ms

Remote clock offset: 6.204 ms

# Below is generated by plot.py at 2019-11-25 06:31:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 53.438 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 62.881 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 47.803 ms

Loss rate: 0.00%

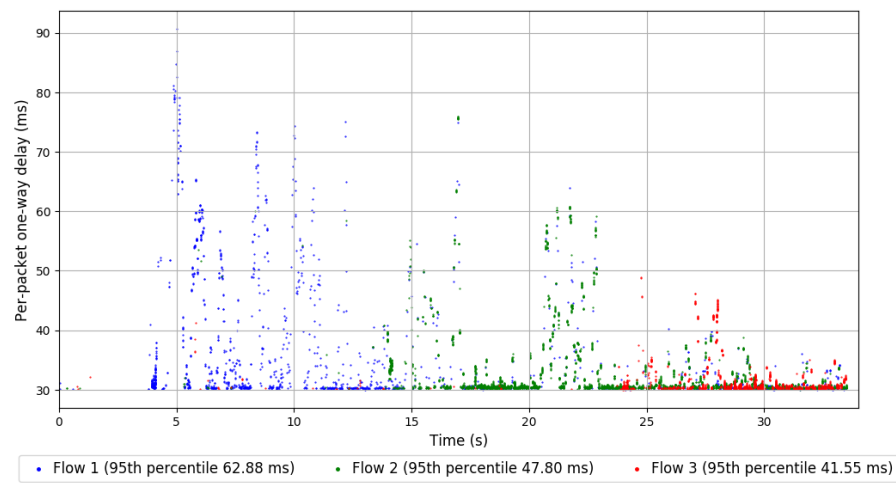
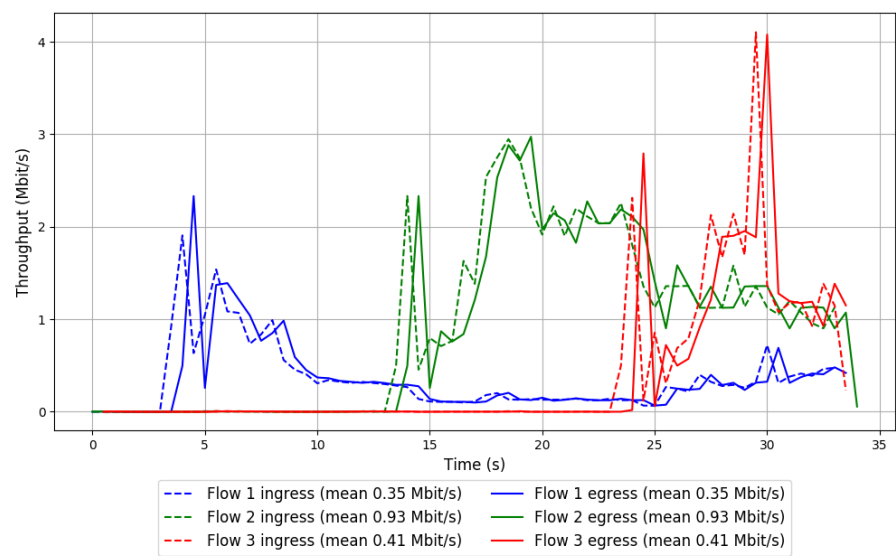
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 41.549 ms

Loss rate: 0.85%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-25 05:18:25

End at: 2019-11-25 05:18:55

Local clock offset: 3.427 ms

Remote clock offset: 3.871 ms

# Below is generated by plot.py at 2019-11-25 06:31:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 32.951 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 31.823 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 34.977 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 32.359 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

