

## Pantheon Report

Generated at 2019-10-03 01:19:42 (UTC).

Data path: AWS India 1 on `ens5` (*local*) → India on `em1` (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

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

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

### System info:

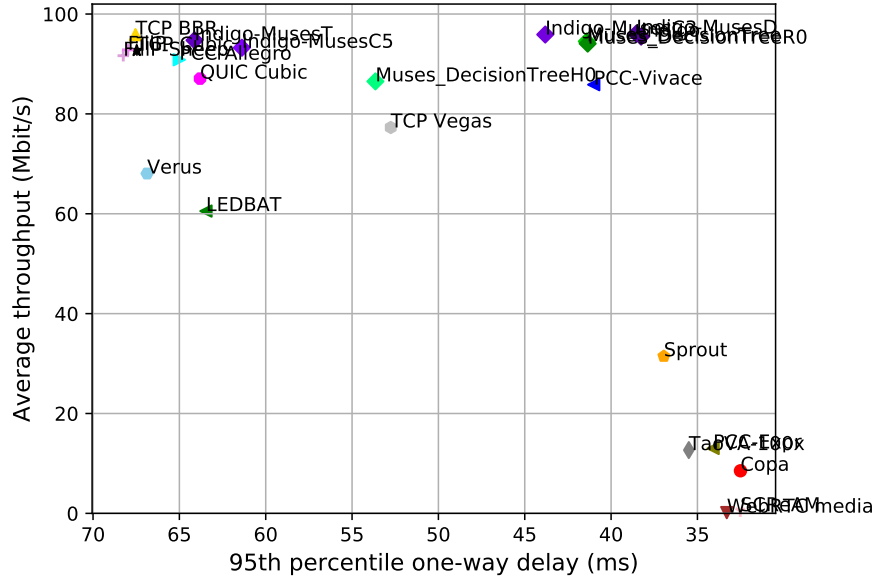
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

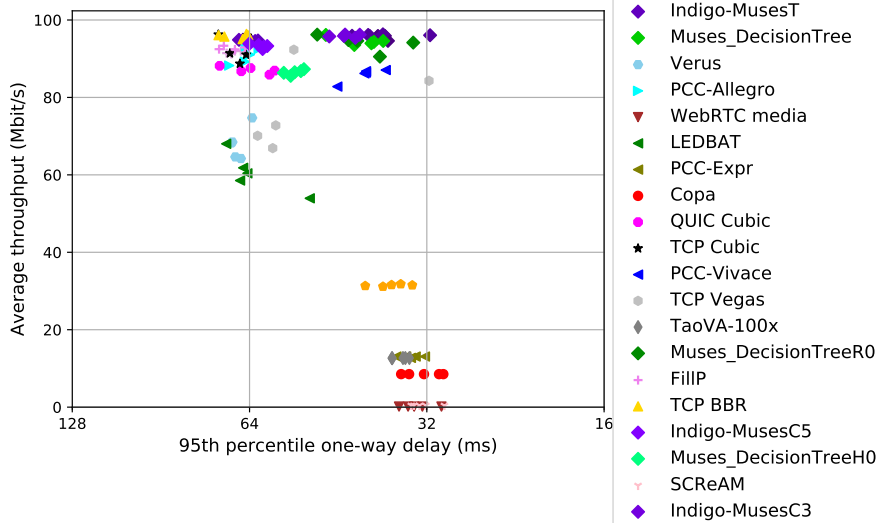
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

test from AWS India 1 to India, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 1 to India, 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	64.51	32.78	28.66	66.21	68.65	68.47	5.89	9.71	11.08
Copa	5	0.04	10.11	5.41	31.13	33.53	31.92	93.97	71.61	76.92
TCP Cubic	5	54.15	38.20	39.31	67.55	61.63	61.85	0.56	0.44	0.48
FillP	5	56.68	40.09	29.19	66.83	68.33	70.01	29.12	47.48	57.47
FillP-Sheep	5	54.18	38.68	35.46	65.63	69.55	70.69	6.61	12.30	18.57
Indigo	5	64.29	30.89	32.74	36.96	38.84	43.85	0.05	0.06	0.14
Indigo-MusesC3	5	50.73	51.14	41.91	41.19	43.77	50.03	0.19	0.40	1.94
Indigo-MusesC5	5	53.07	49.88	26.97	58.18	62.19	64.74	5.67	14.91	28.38
Indigo-MusesD	5	56.07	45.09	36.90	37.26	37.97	38.82	0.09	0.02	0.04
Indigo-MusesT	5	60.37	44.35	19.38	60.59	65.81	67.71	4.55	9.72	20.35
LEDBAT	5	33.78	29.83	20.80	61.02	64.29	64.57	0.16	0.26	0.20
Muses_DecisionTree	5	62.50	23.90	49.89	39.95	47.36	44.10	0.03	0.32	0.46
Muses_DecisionTreeH0	5	61.04	28.02	21.50	51.24	58.05	57.08	1.58	4.34	3.28
Muses_DecisionTreeR0	5	65.54	20.86	45.43	39.77	45.36	44.74	0.05	0.02	0.11
PCC-Allegro	5	78.76	13.82	8.80	64.74	66.46	63.11	3.98	5.00	5.39
PCC-Expr	5	8.50	4.80	3.97	33.97	33.99	33.88	56.33	34.74	26.21
QUIC Cubic	5	58.67	31.70	22.39	63.46	63.56	63.22	1.78	0.81	1.22
SCReAM	5	0.21	0.22	0.22	31.79	32.19	31.68	0.03	0.00	0.00
Sprout	5	15.91	15.77	15.32	35.70	36.94	37.72	0.12	0.13	0.22
TaoVA-100x	5	6.85	8.39	3.91	36.68	35.36	34.36	85.01	86.52	97.25
TCP Vegas	5	42.78	33.25	37.14	50.18	47.86	40.54	0.85	0.51	0.98
Verus	5	44.14	22.60	27.76	66.21	67.28	66.16	26.71	41.33	34.26
PCC-Vivace	5	61.09	30.77	13.02	42.57	38.88	36.16	0.01	0.01	0.01
WebRTC media	5	0.05	0.05	0.06	32.98	32.66	32.82	0.00	0.01	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-10-02 22:45:24  
End at: 2019-10-02 22:45:54  
Local clock offset: -2.535 ms  
Remote clock offset: -1.645 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 72.244 ms  
Loss rate: 7.70%

-- Flow 1:

Average throughput: 65.23 Mbit/s  
95th percentile per-packet one-way delay: 71.482 ms  
Loss rate: 6.41%

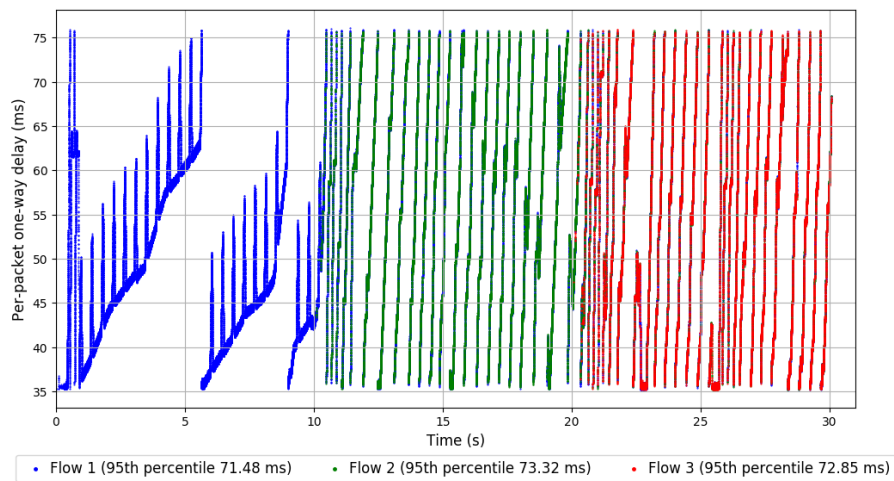
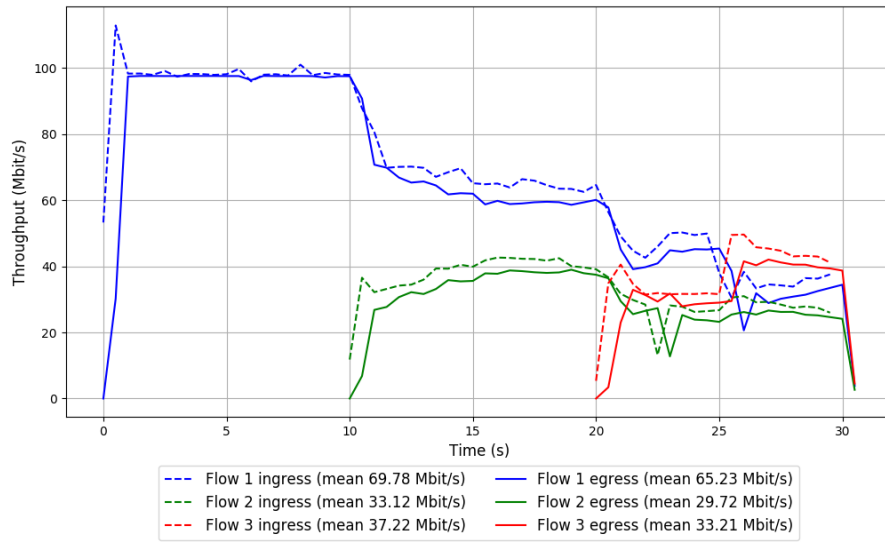
-- Flow 2:

Average throughput: 29.72 Mbit/s  
95th percentile per-packet one-way delay: 73.322 ms  
Loss rate: 10.16%

-- Flow 3:

Average throughput: 33.21 Mbit/s  
95th percentile per-packet one-way delay: 72.852 ms  
Loss rate: 10.57%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-02 23:14:43  
End at: 2019-10-02 23:15:13  
Local clock offset: 2.792 ms  
Remote clock offset: -0.958 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 64.325 ms  
Loss rate: 7.57%

-- Flow 1:

Average throughput: 69.69 Mbit/s  
95th percentile per-packet one-way delay: 64.807 ms  
Loss rate: 6.43%

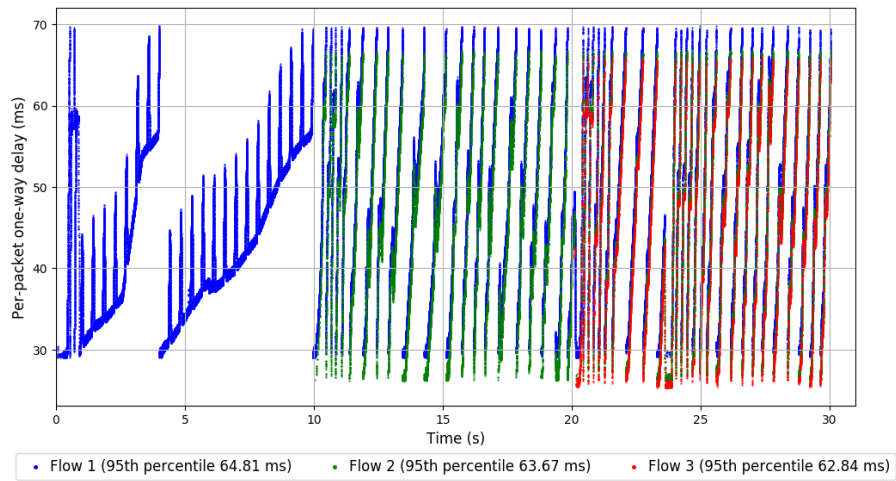
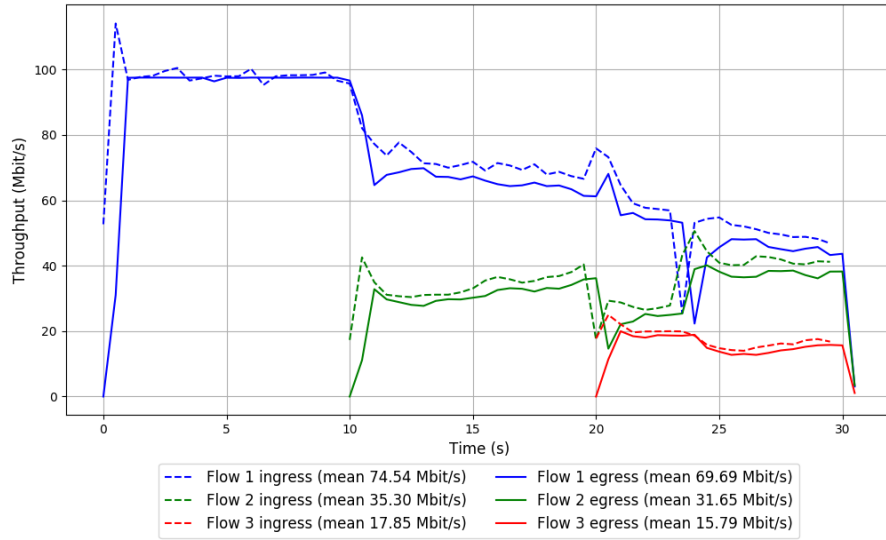
-- Flow 2:

Average throughput: 31.65 Mbit/s  
95th percentile per-packet one-way delay: 63.670 ms  
Loss rate: 10.20%

-- Flow 3:

Average throughput: 15.79 Mbit/s  
95th percentile per-packet one-way delay: 62.839 ms  
Loss rate: 11.43%

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





Run 3: Statistics of TCP BBR

Start at: 2019-10-02 23:44:03

End at: 2019-10-02 23:44:33

Local clock offset: 2.8 ms

Remote clock offset: 0.601 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.41 Mbit/s

95th percentile per-packet one-way delay: 64.770 ms

Loss rate: 7.38%

-- Flow 1:

Average throughput: 64.34 Mbit/s

95th percentile per-packet one-way delay: 61.683 ms

Loss rate: 5.69%

-- Flow 2:

Average throughput: 32.97 Mbit/s

95th percentile per-packet one-way delay: 67.384 ms

Loss rate: 9.94%

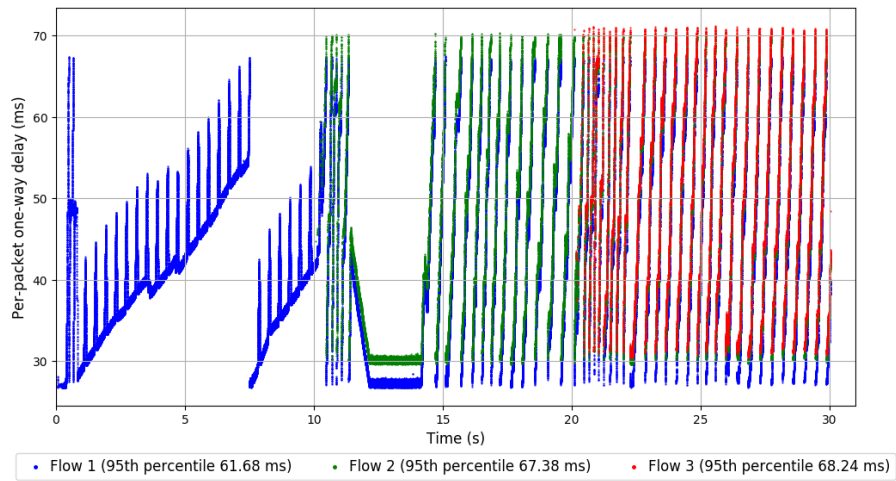
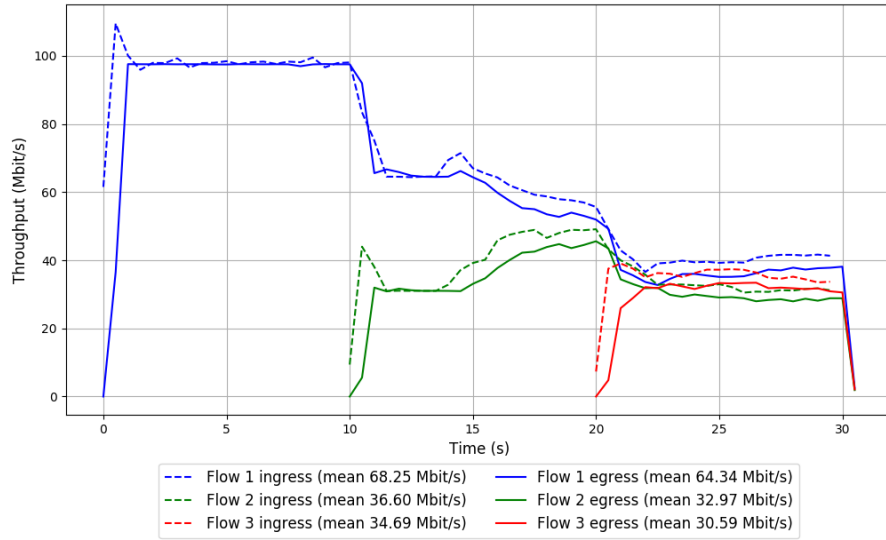
-- Flow 3:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 68.244 ms

Loss rate: 12.00%

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



Run 4: Statistics of TCP BBR

Start at: 2019-10-03 00:13:19

End at: 2019-10-03 00:13:49

Local clock offset: 3.92 ms

Remote clock offset: 1.726 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.07 Mbit/s

95th percentile per-packet one-way delay: 65.748 ms

Loss rate: 6.51%

-- Flow 1:

Average throughput: 57.73 Mbit/s

95th percentile per-packet one-way delay: 63.341 ms

Loss rate: 5.04%

-- Flow 2:

Average throughput: 38.88 Mbit/s

95th percentile per-packet one-way delay: 66.312 ms

Loss rate: 8.24%

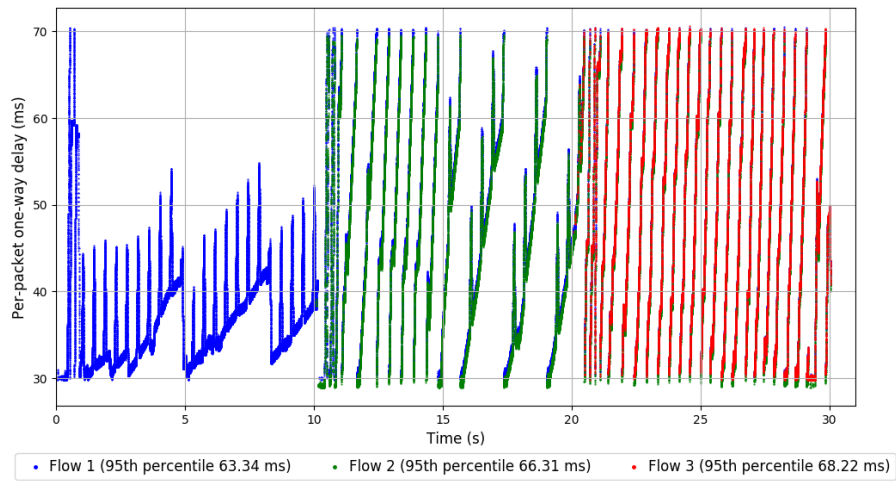
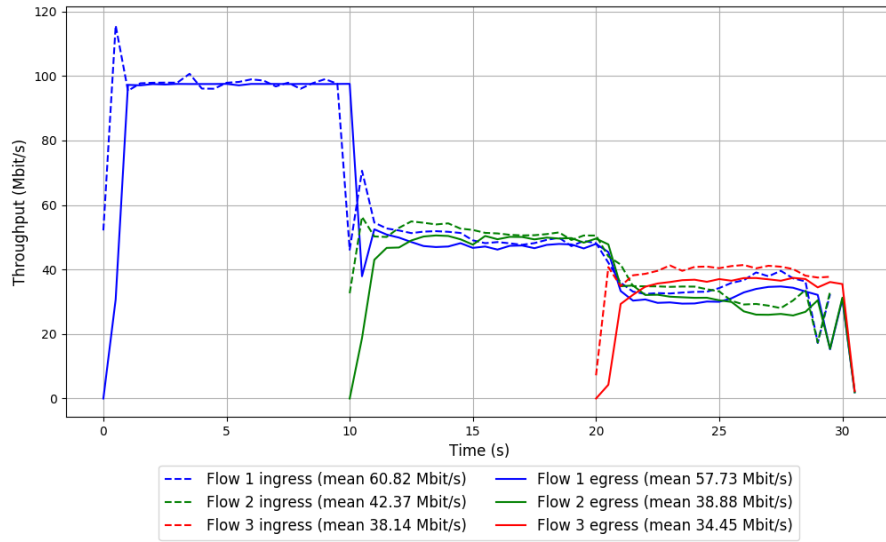
-- Flow 3:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 68.220 ms

Loss rate: 9.74%

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



Run 5: Statistics of TCP BBR

Start at: 2019-10-03 00:42:37

End at: 2019-10-03 00:43:07

Local clock offset: 3.535 ms

Remote clock offset: 1.0 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 70.620 ms

Loss rate: 7.41%

-- Flow 1:

Average throughput: 65.56 Mbit/s

95th percentile per-packet one-way delay: 69.724 ms

Loss rate: 5.89%

-- Flow 2:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 72.568 ms

Loss rate: 10.01%

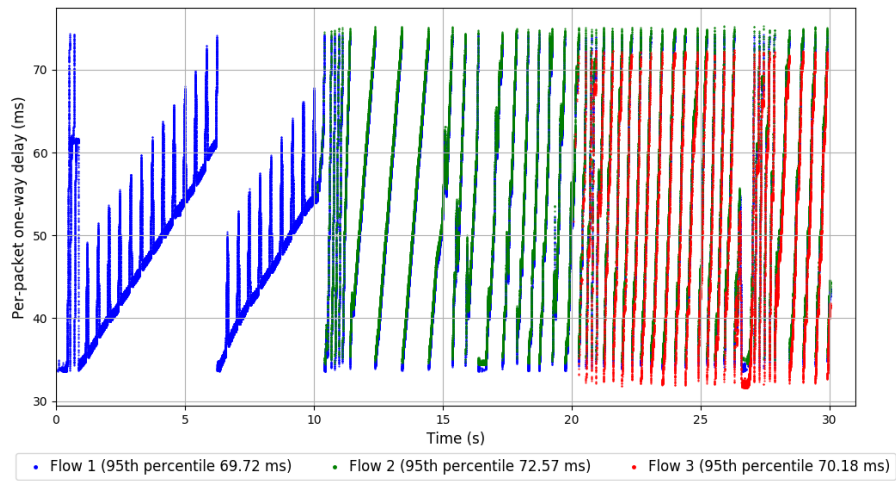
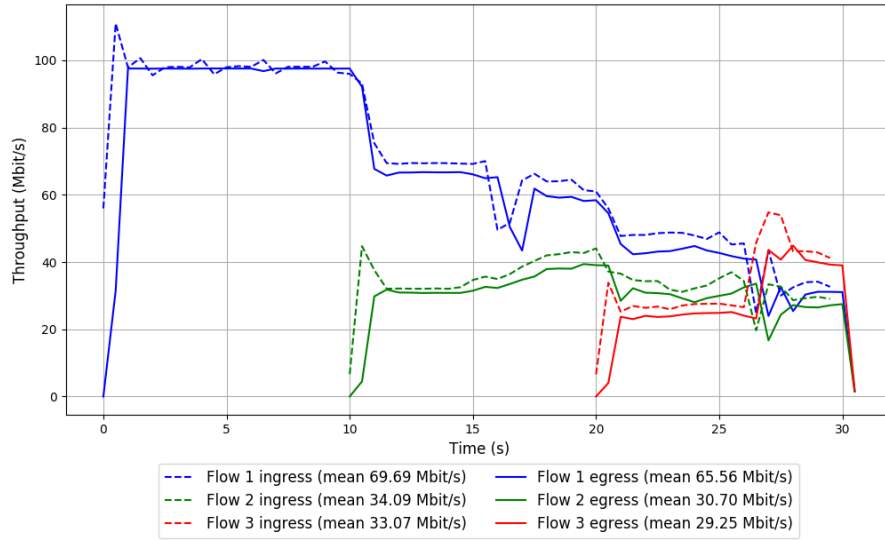
-- Flow 3:

Average throughput: 29.25 Mbit/s

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

Loss rate: 11.64%

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



Run 1: Statistics of Copa

Start at: 2019-10-02 22:57:35  
End at: 2019-10-02 22:58:05  
Local clock offset: -2.743 ms  
Remote clock offset: -0.885 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 35.379 ms  
Loss rate: 71.25%

-- Flow 1:

Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 34.238 ms  
Loss rate: 98.60%

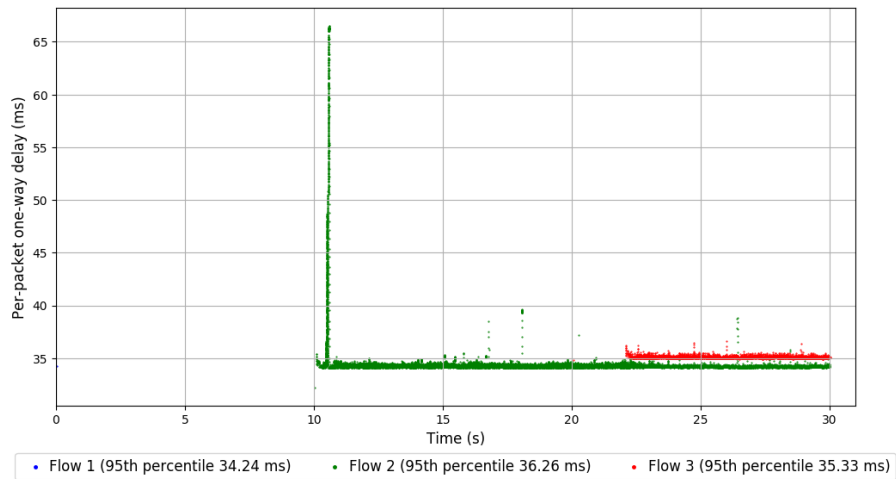
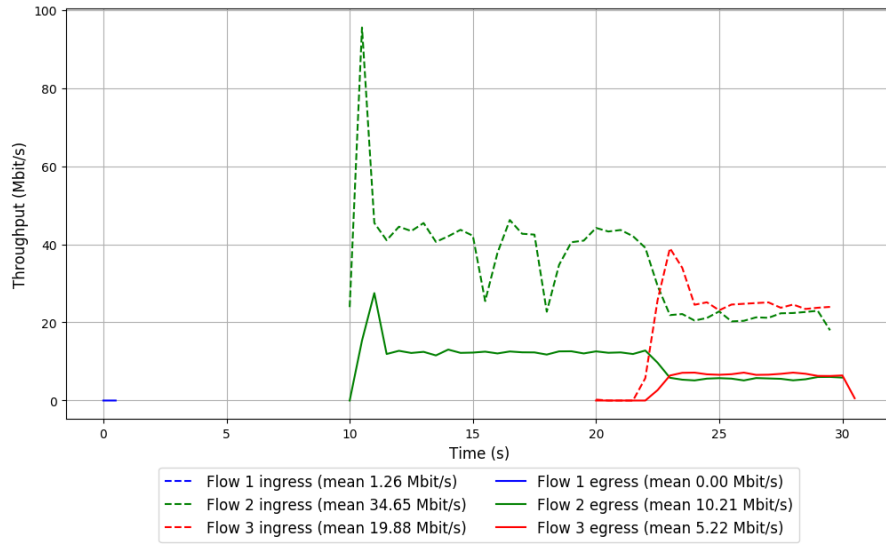
-- Flow 2:

Average throughput: 10.21 Mbit/s  
95th percentile per-packet one-way delay: 36.264 ms  
Loss rate: 70.54%

-- Flow 3:

Average throughput: 5.22 Mbit/s  
95th percentile per-packet one-way delay: 35.333 ms  
Loss rate: 73.73%

### Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2019-10-02 23:27:13  
End at: 2019-10-02 23:27:43  
Local clock offset: 0.639 ms  
Remote clock offset: -0.476 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 32.355 ms  
Loss rate: 73.77%

-- Flow 1:

Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 31.751 ms  
Loss rate: 95.92%

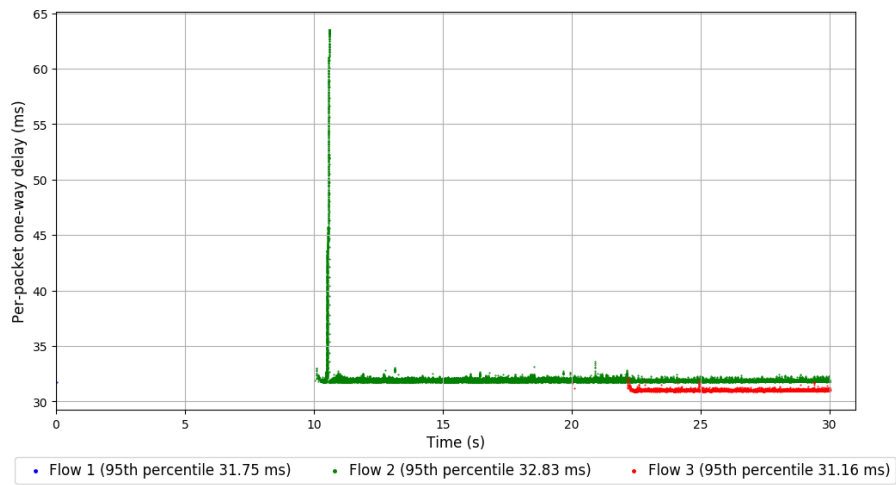
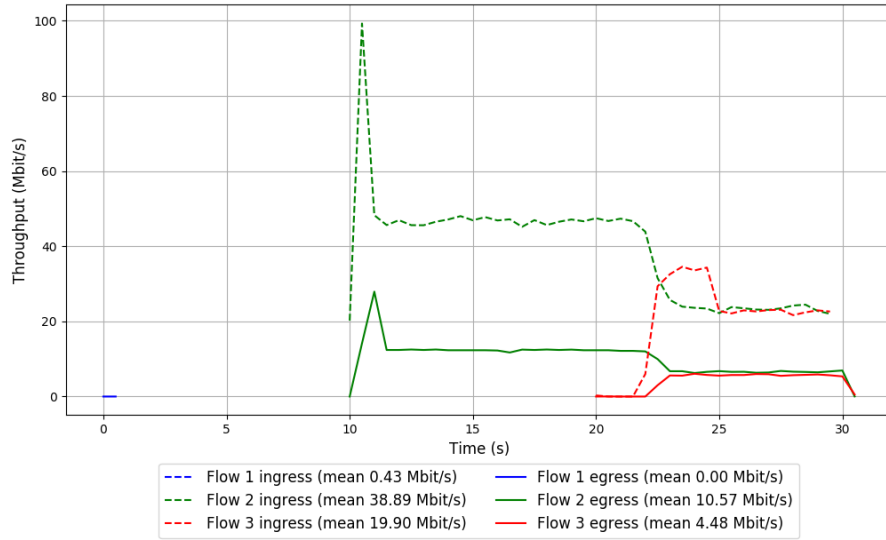
-- Flow 2:

Average throughput: 10.57 Mbit/s  
95th percentile per-packet one-way delay: 32.832 ms  
Loss rate: 72.81%

-- Flow 3:

Average throughput: 4.48 Mbit/s  
95th percentile per-packet one-way delay: 31.164 ms  
Loss rate: 77.48%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-10-02 23:56:21

End at: 2019-10-02 23:56:51

Local clock offset: 3.166 ms

Remote clock offset: 0.813 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 30.507 ms

Loss rate: 74.55%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 26.359 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 31.539 ms

Loss rate: 70.78%

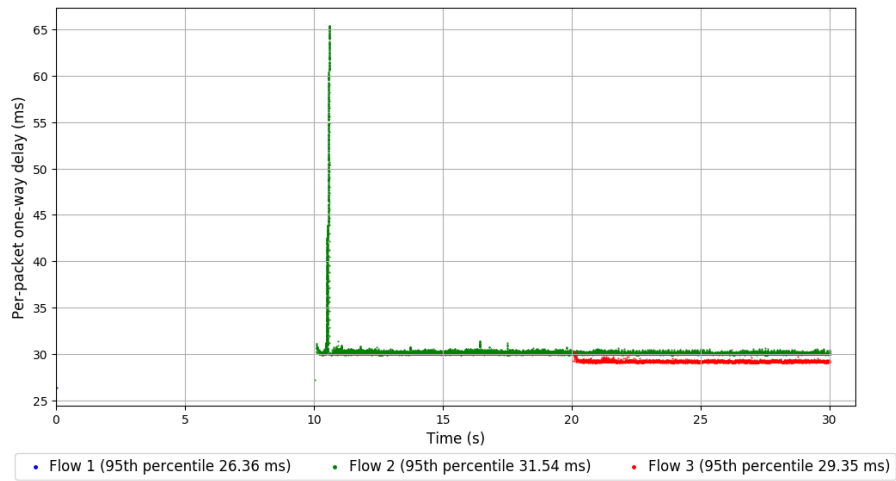
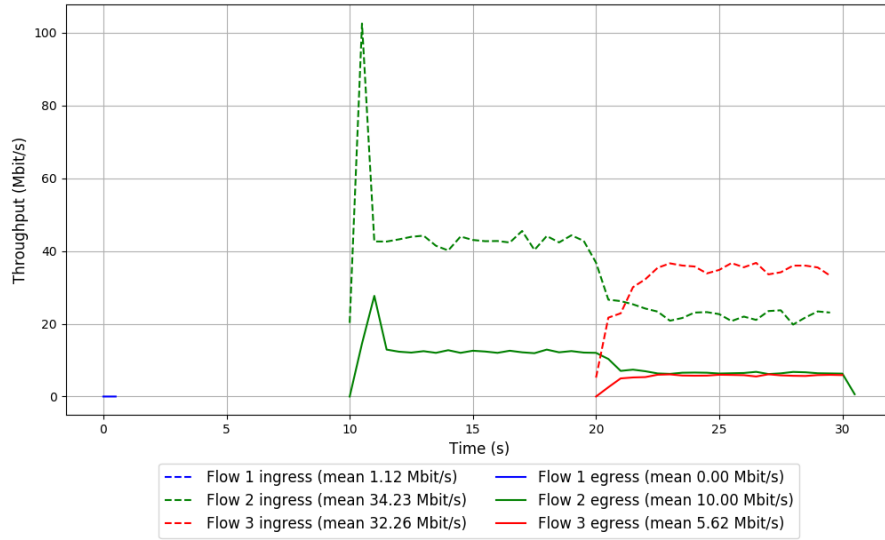
-- Flow 3:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 29.348 ms

Loss rate: 82.57%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-03 00:25:38  
End at: 2019-10-03 00:26:08  
Local clock offset: -2.318 ms  
Remote clock offset: -5.732 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 30.000 ms  
Loss rate: 71.91%

-- Flow 1:

Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 28.514 ms  
Loss rate: 98.33%

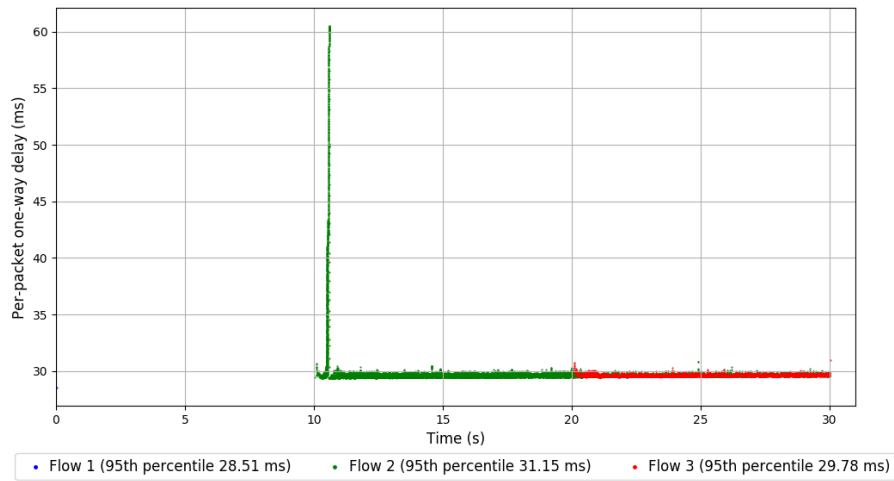
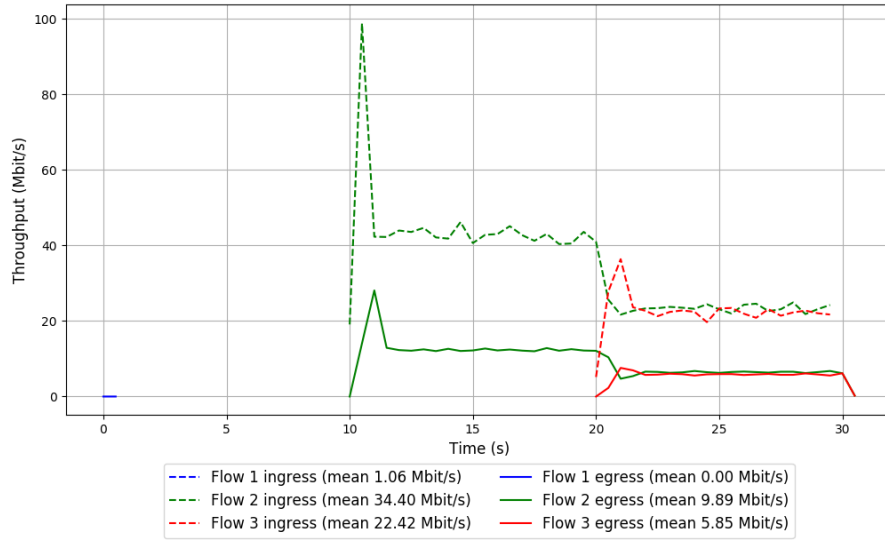
-- Flow 2:

Average throughput: 9.89 Mbit/s  
95th percentile per-packet one-way delay: 31.149 ms  
Loss rate: 71.26%

-- Flow 3:

Average throughput: 5.85 Mbit/s  
95th percentile per-packet one-way delay: 29.780 ms  
Loss rate: 73.92%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 00:54:46

End at: 2019-10-03 00:55:16

Local clock offset: 5.29 ms

Remote clock offset: 1.623 ms

# Below is generated by plot.py at 2019-10-03 01:06:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 34.297 ms

Loss rate: 73.78%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.775 ms

Loss rate: 78.66%

-- Flow 2:

Average throughput: 9.87 Mbit/s

95th percentile per-packet one-way delay: 35.866 ms

Loss rate: 72.68%

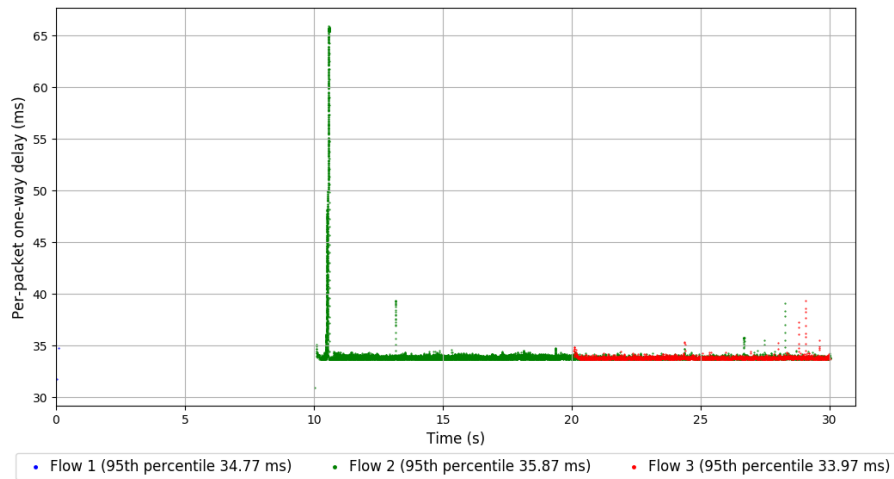
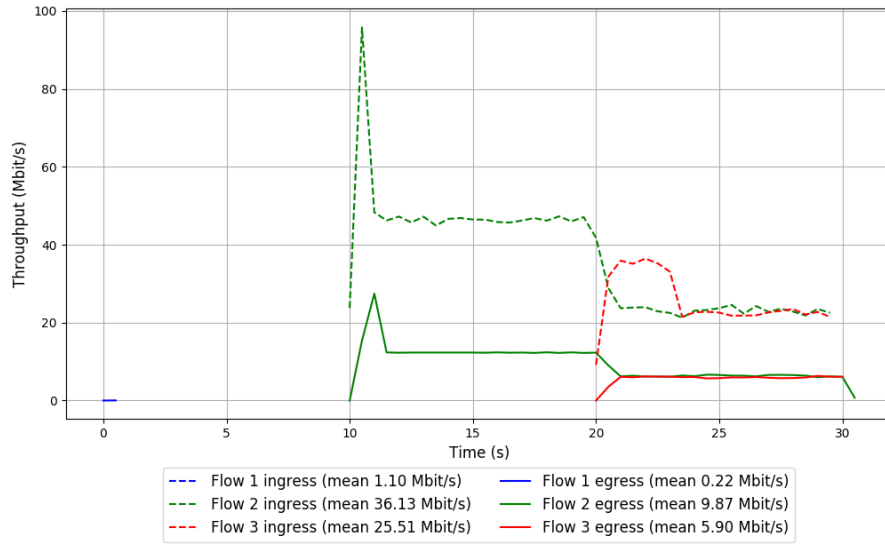
-- Flow 3:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 33.967 ms

Loss rate: 76.89%

### Run 5: Report of Copa — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2019-10-02 22:58:44  
End at: 2019-10-02 22:59:14  
Local clock offset: 0.84 ms  
Remote clock offset: -0.595 ms

# Below is generated by plot.py at 2019-10-03 01:07:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.72 Mbit/s  
95th percentile per-packet one-way delay: 66.466 ms  
Loss rate: 0.63%

-- Flow 1:

Average throughput: 45.90 Mbit/s  
95th percentile per-packet one-way delay: 62.563 ms  
Loss rate: 0.57%

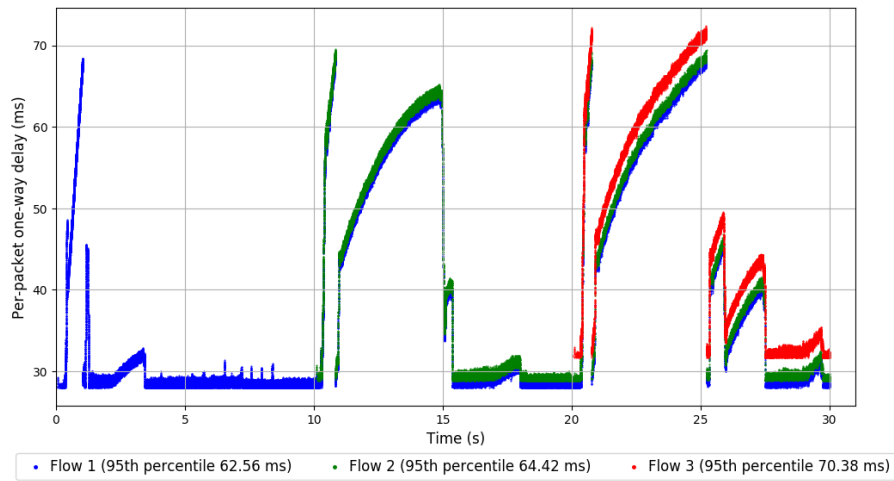
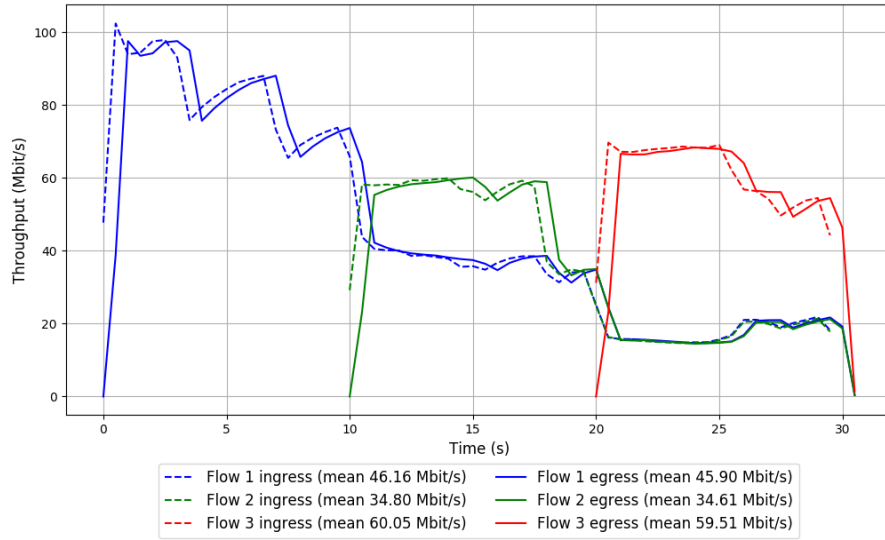
-- Flow 2:

Average throughput: 34.61 Mbit/s  
95th percentile per-packet one-way delay: 64.424 ms  
Loss rate: 0.52%

-- Flow 3:

Average throughput: 59.51 Mbit/s  
95th percentile per-packet one-way delay: 70.381 ms  
Loss rate: 0.90%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-10-02 23:28:21

End at: 2019-10-02 23:28:51

Local clock offset: 0.56 ms

Remote clock offset: 1.937 ms

# Below is generated by plot.py at 2019-10-03 01:07:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 69.099 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 70.557 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 36.99 Mbit/s

95th percentile per-packet one-way delay: 58.396 ms

Loss rate: 0.37%

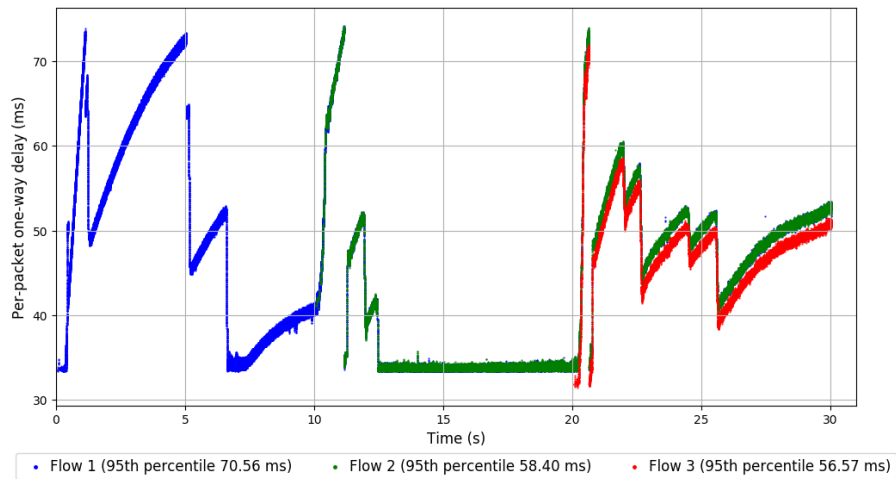
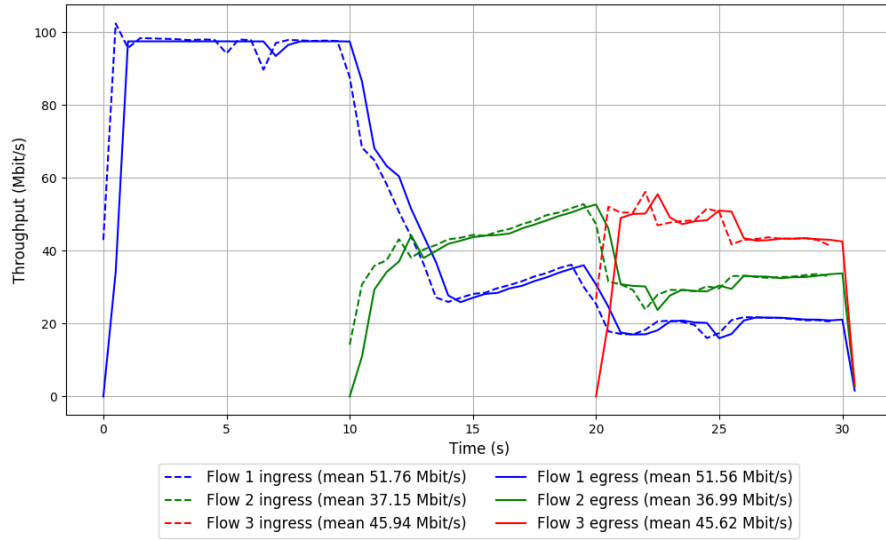
-- Flow 3:

Average throughput: 45.62 Mbit/s

95th percentile per-packet one-way delay: 56.571 ms

Loss rate: 0.50%

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



Run 3: Statistics of TCP Cubic

Start at: 2019-10-02 23:57:30

End at: 2019-10-02 23:58:00

Local clock offset: -1.394 ms

Remote clock offset: 1.004 ms

# Below is generated by plot.py at 2019-10-03 01:07:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 64.856 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 47.93 Mbit/s

95th percentile per-packet one-way delay: 65.050 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 43.64 Mbit/s

95th percentile per-packet one-way delay: 65.086 ms

Loss rate: 0.35%

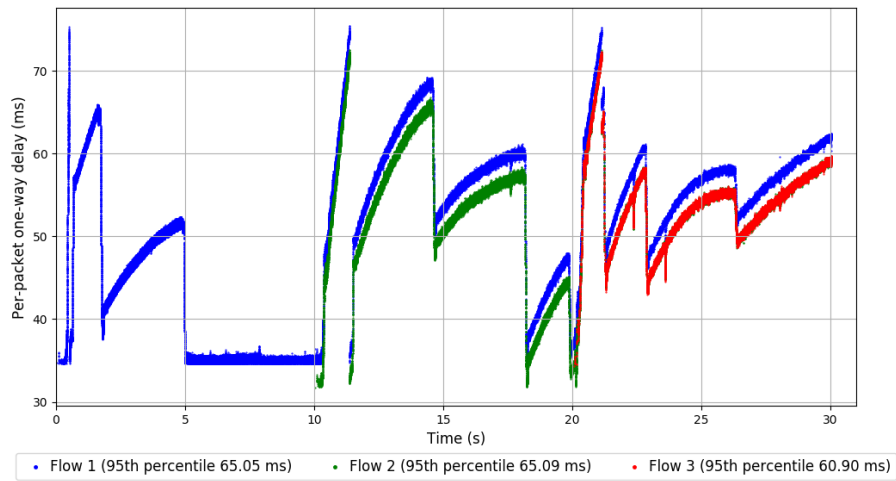
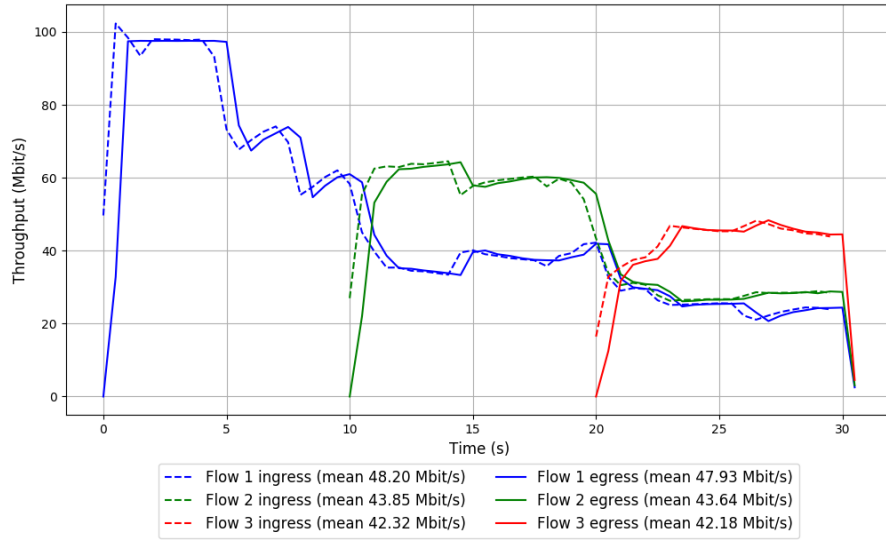
-- Flow 3:

Average throughput: 42.18 Mbit/s

95th percentile per-packet one-way delay: 60.896 ms

Loss rate: 0.09%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 00:26:47

End at: 2019-10-03 00:27:17

Local clock offset: 0.526 ms

Remote clock offset: 2.954 ms

# Below is generated by plot.py at 2019-10-03 01:07:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 72.298 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 73.180 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 35.07 Mbit/s

95th percentile per-packet one-way delay: 70.285 ms

Loss rate: 0.80%

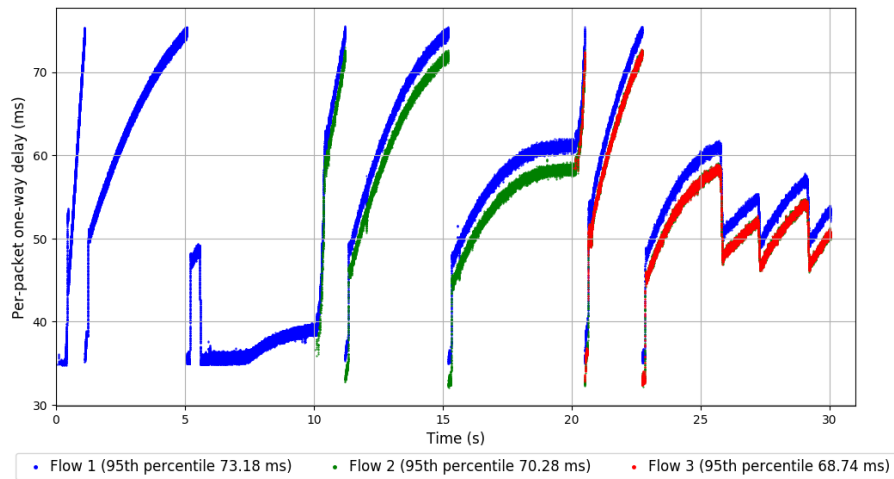
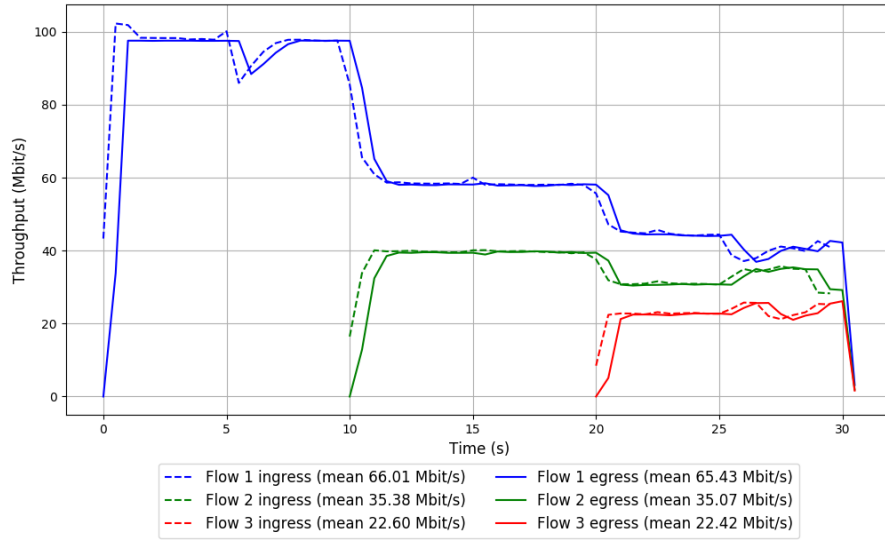
-- Flow 3:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 68.739 ms

Loss rate: 0.88%

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





Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 00:55:55

End at: 2019-10-03 00:56:25

Local clock offset: 9.995 ms

Remote clock offset: 1.845 ms

# Below is generated by plot.py at 2019-10-03 01:07:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 64.627 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 59.95 Mbit/s

95th percentile per-packet one-way delay: 66.383 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 49.972 ms

Loss rate: 0.17%

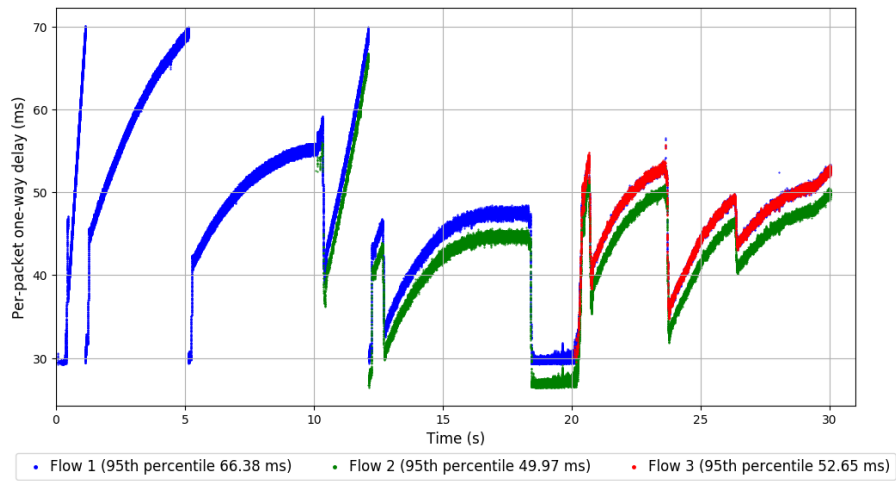
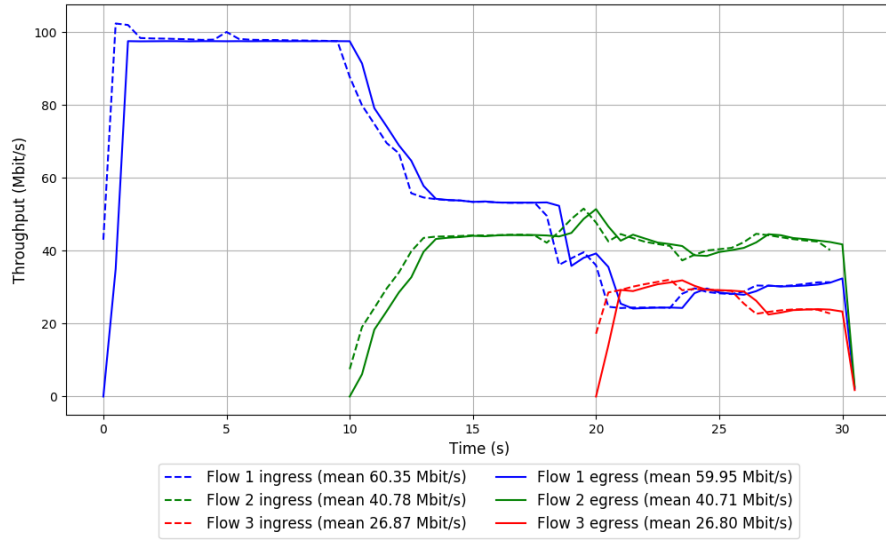
-- Flow 3:

Average throughput: 26.80 Mbit/s

95th percentile per-packet one-way delay: 52.652 ms

Loss rate: 0.03%

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



Run 1: Statistics of FillP

Start at: 2019-10-02 22:56:20

End at: 2019-10-02 22:56:50

Local clock offset: -3.0 ms

Remote clock offset: 0.622 ms

# Below is generated by plot.py at 2019-10-03 01:08:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 72.103 ms

Loss rate: 39.19%

-- Flow 1:

Average throughput: 56.22 Mbit/s

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

Loss rate: 28.33%

-- Flow 2:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 72.754 ms

Loss rate: 47.85%

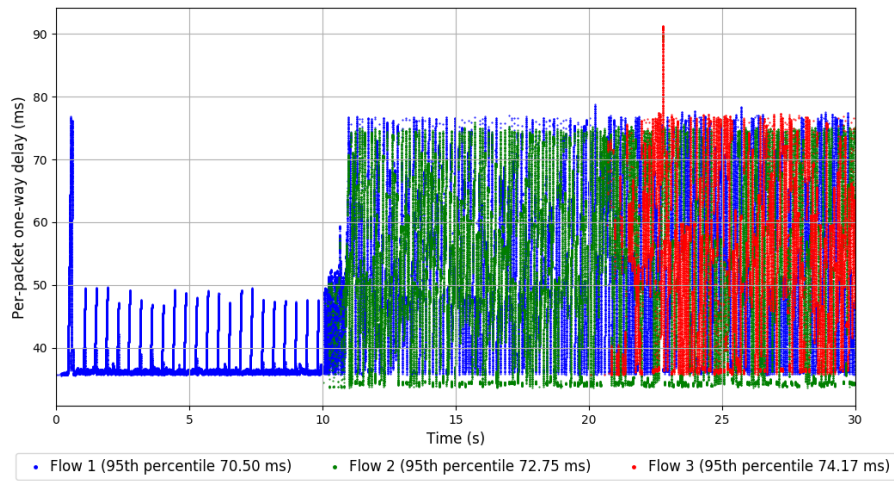
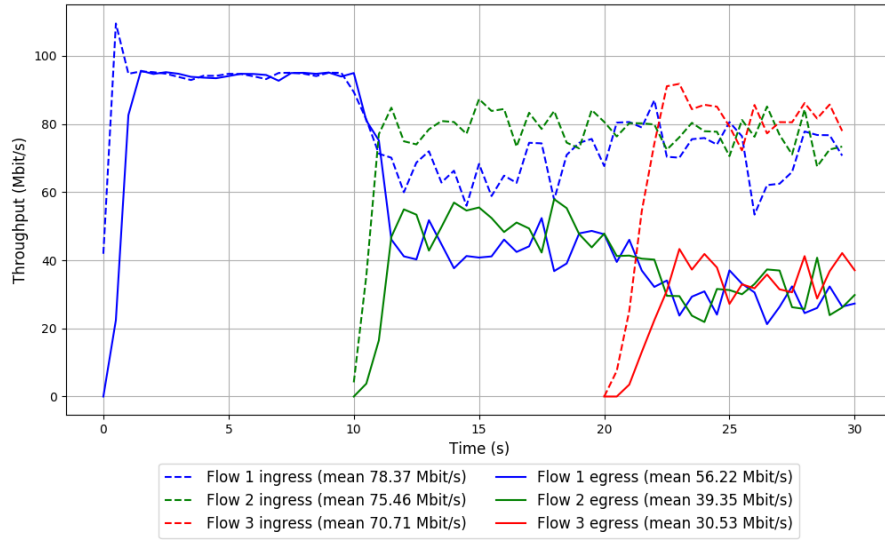
-- Flow 3:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 74.166 ms

Loss rate: 56.90%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-10-02 23:26:00

End at: 2019-10-02 23:26:30

Local clock offset: -0.084 ms

Remote clock offset: 1.269 ms

# Below is generated by plot.py at 2019-10-03 01:08:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.35 Mbit/s

95th percentile per-packet one-way delay: 70.768 ms

Loss rate: 40.73%

-- Flow 1:

Average throughput: 57.39 Mbit/s

95th percentile per-packet one-way delay: 69.467 ms

Loss rate: 30.44%

-- Flow 2:

Average throughput: 39.78 Mbit/s

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

Loss rate: 49.84%

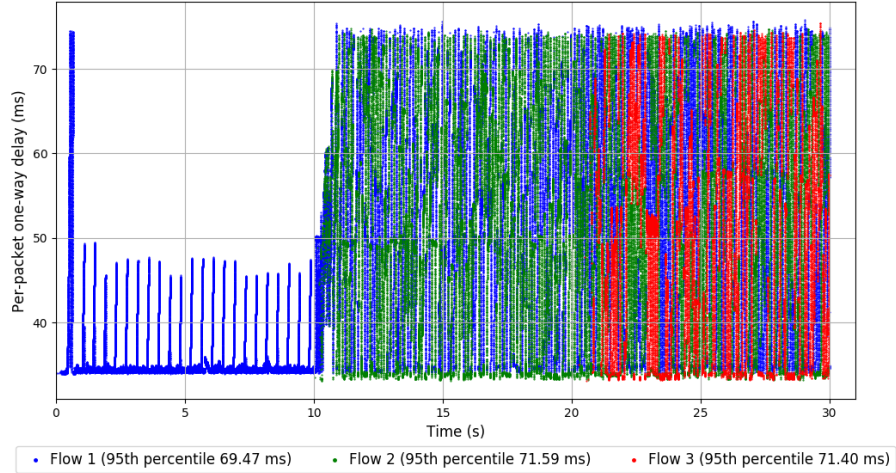
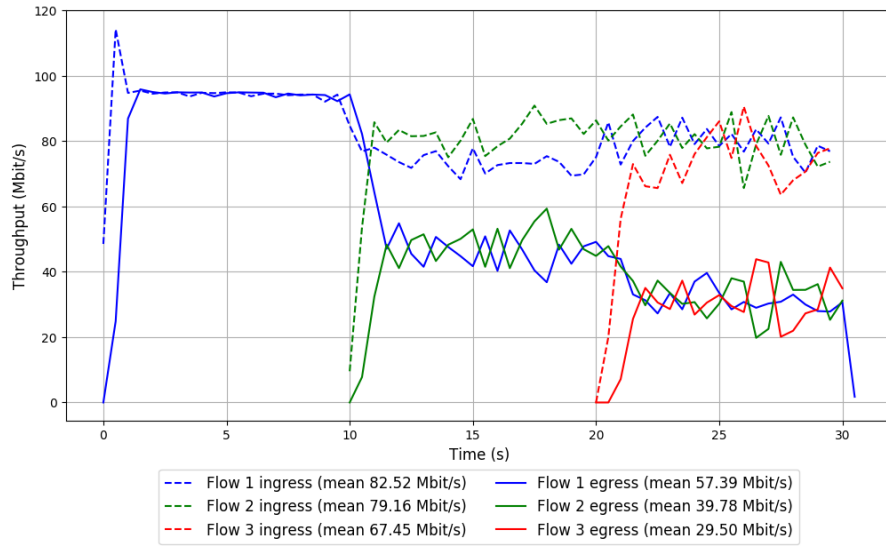
-- Flow 3:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 71.401 ms

Loss rate: 57.28%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-02 23:55:08

End at: 2019-10-02 23:55:38

Local clock offset: 2.933 ms

Remote clock offset: 1.814 ms

# Below is generated by plot.py at 2019-10-03 01:08:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 39.79%

-- Flow 1:

Average throughput: 55.89 Mbit/s

95th percentile per-packet one-way delay: 63.131 ms

Loss rate: 30.26%

-- Flow 2:

Average throughput: 41.83 Mbit/s

95th percentile per-packet one-way delay: 65.008 ms

Loss rate: 47.06%

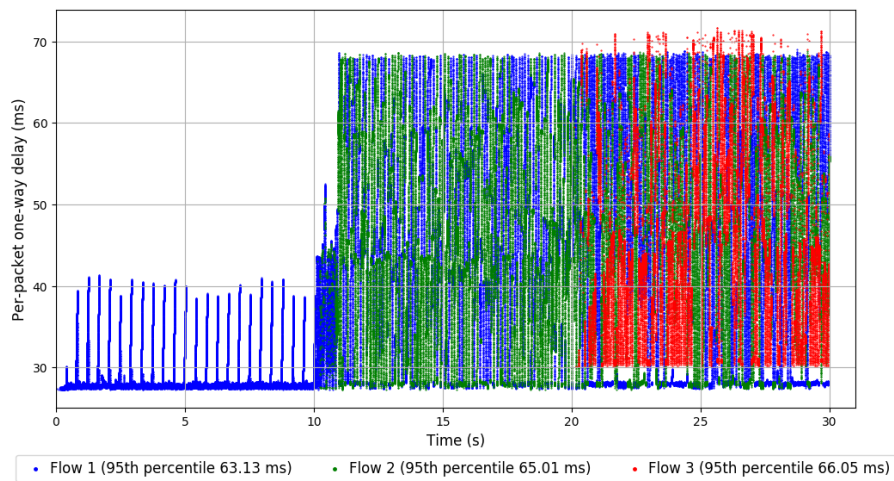
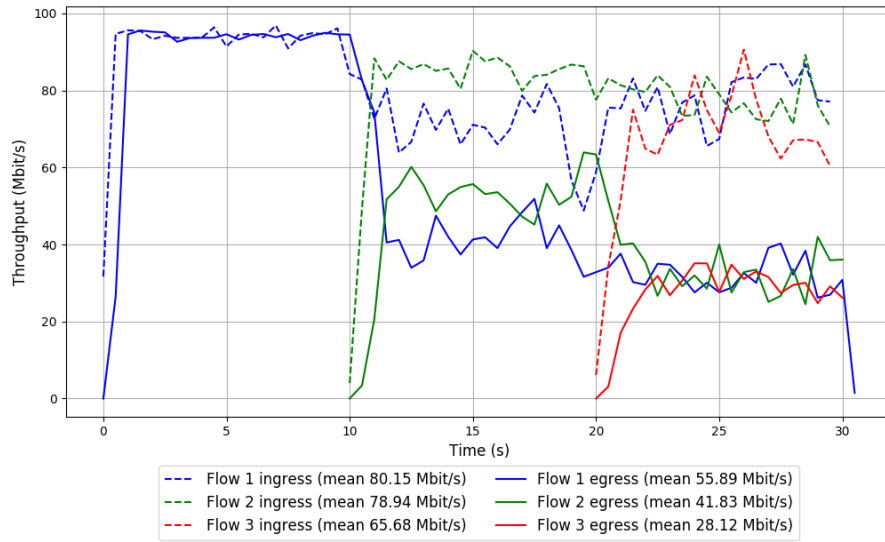
-- Flow 3:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 66.054 ms

Loss rate: 57.35%

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





Run 4: Statistics of FillP

Start at: 2019-10-03 00:24:22

End at: 2019-10-03 00:24:52

Local clock offset: 1.222 ms

Remote clock offset: 1.639 ms

# Below is generated by plot.py at 2019-10-03 01:08:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 67.753 ms

Loss rate: 38.56%

-- Flow 1:

Average throughput: 57.82 Mbit/s

95th percentile per-packet one-way delay: 67.870 ms

Loss rate: 28.39%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 67.007 ms

Loss rate: 46.81%

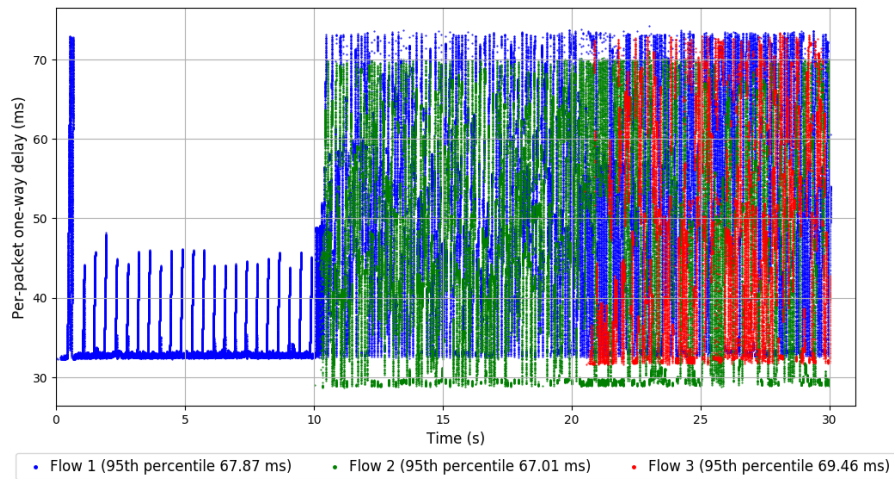
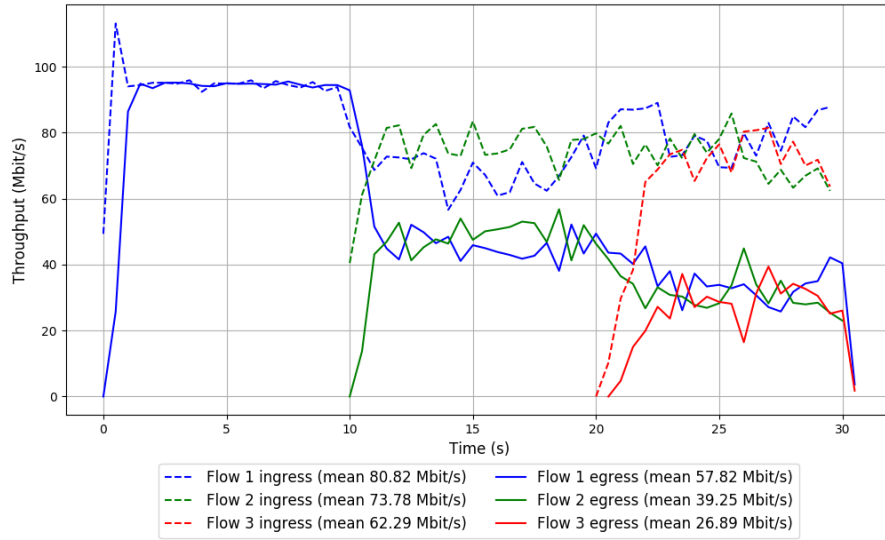
-- Flow 3:

Average throughput: 26.89 Mbit/s

95th percentile per-packet one-way delay: 69.458 ms

Loss rate: 58.76%

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



Run 5: Statistics of FillP

Start at: 2019-10-03 00:53:30

End at: 2019-10-03 00:54:00

Local clock offset: 8.834 ms

Remote clock offset: 2.301 ms

# Below is generated by plot.py at 2019-10-03 01:08:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 65.134 ms

Loss rate: 38.44%

-- Flow 1:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 63.160 ms

Loss rate: 28.16%

-- Flow 2:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 65.302 ms

Loss rate: 45.85%

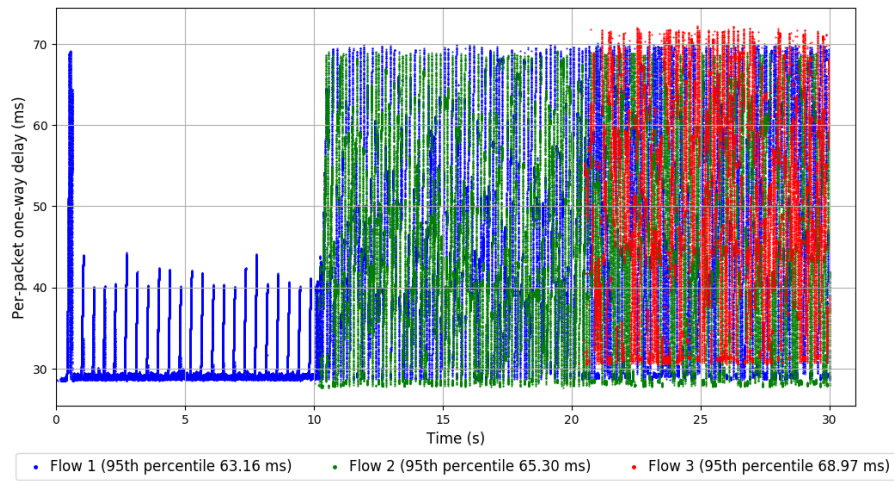
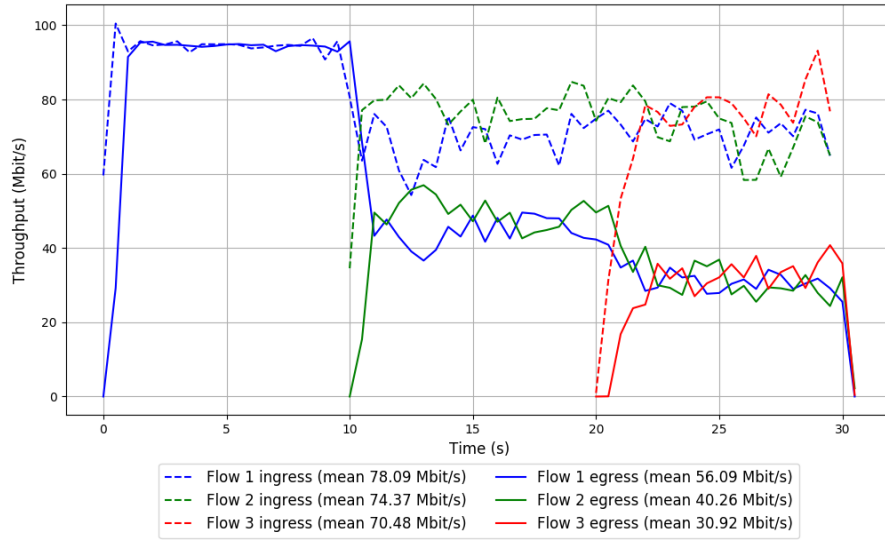
-- Flow 3:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 68.967 ms

Loss rate: 57.05%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-02 22:55:06  
End at: 2019-10-02 22:55:36  
Local clock offset: -3.364 ms  
Remote clock offset: -1.043 ms

# Below is generated by plot.py at 2019-10-03 01:08:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.98 Mbit/s  
95th percentile per-packet one-way delay: 67.764 ms  
Loss rate: 8.21%

-- Flow 1:

Average throughput: 53.61 Mbit/s  
95th percentile per-packet one-way delay: 64.017 ms  
Loss rate: 6.13%

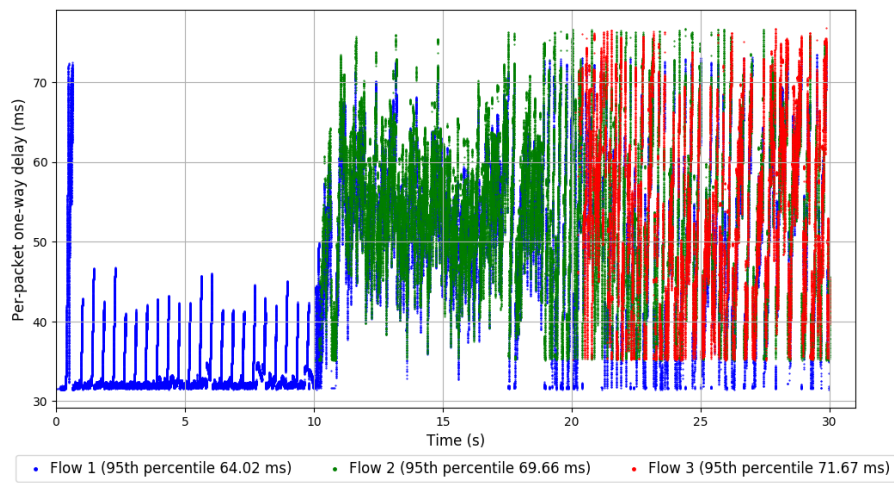
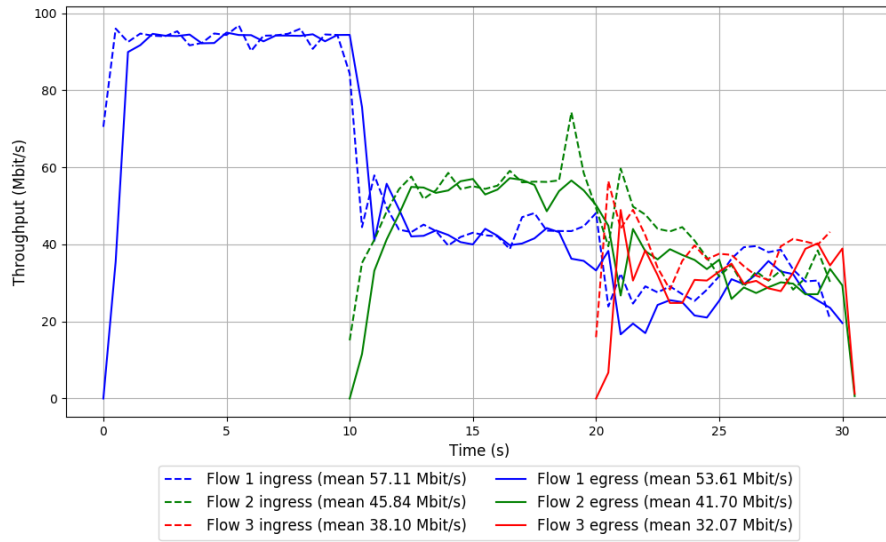
-- Flow 2:

Average throughput: 41.70 Mbit/s  
95th percentile per-packet one-way delay: 69.661 ms  
Loss rate: 8.99%

-- Flow 3:

Average throughput: 32.07 Mbit/s  
95th percentile per-packet one-way delay: 71.668 ms  
Loss rate: 15.73%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-02 23:24:46

End at: 2019-10-02 23:25:16

Local clock offset: -2.825 ms

Remote clock offset: 1.403 ms

# Below is generated by plot.py at 2019-10-03 01:09:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 69.999 ms

Loss rate: 10.39%

-- Flow 1:

Average throughput: 59.57 Mbit/s

95th percentile per-packet one-way delay: 69.076 ms

Loss rate: 6.88%

-- Flow 2:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 70.025 ms

Loss rate: 13.51%

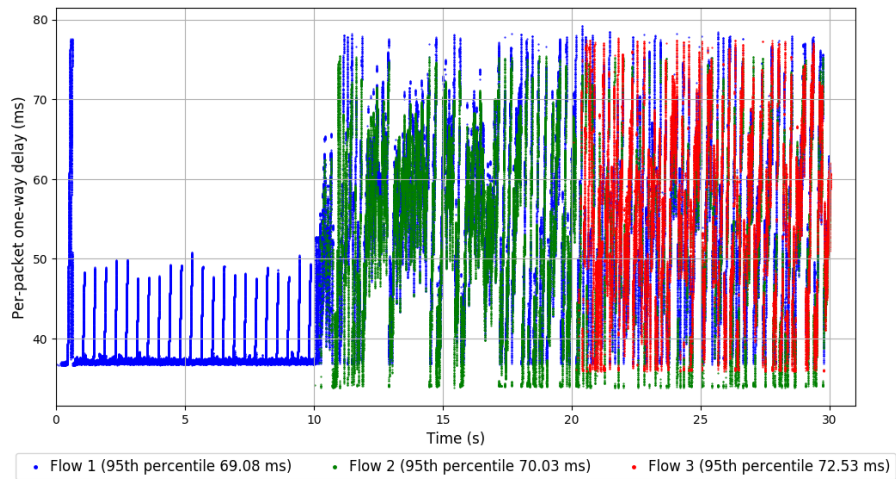
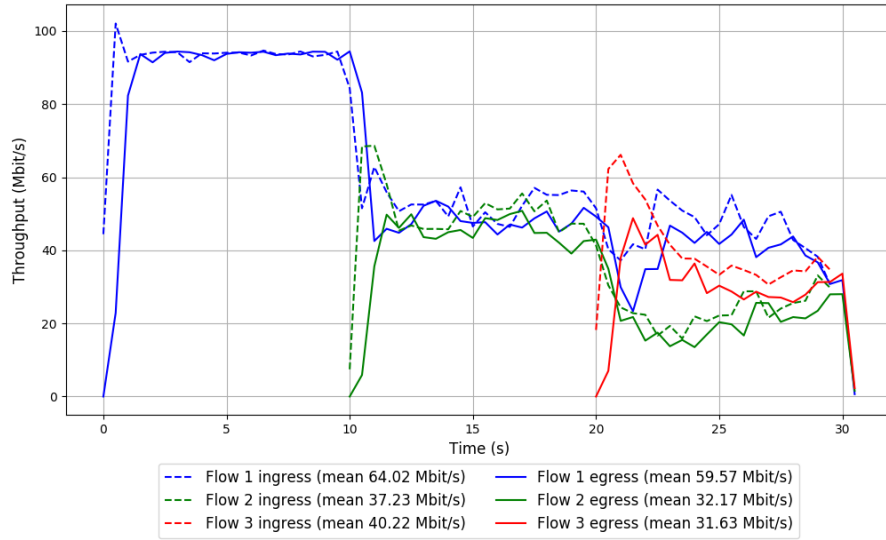
-- Flow 3:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 72.530 ms

Loss rate: 21.41%

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





Run 3: Statistics of FillP-Sheep

Start at: 2019-10-02 23:53:56

End at: 2019-10-02 23:54:26

Local clock offset: 0.67 ms

Remote clock offset: 3.103 ms

# Below is generated by plot.py at 2019-10-03 01:09:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 68.575 ms

Loss rate: 10.51%

-- Flow 1:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 67.082 ms

Loss rate: 7.25%

-- Flow 2:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 70.412 ms

Loss rate: 13.52%

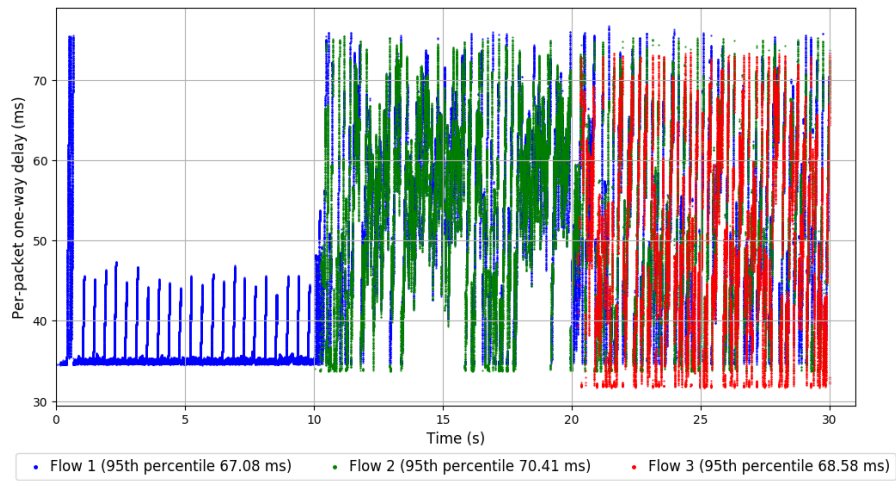
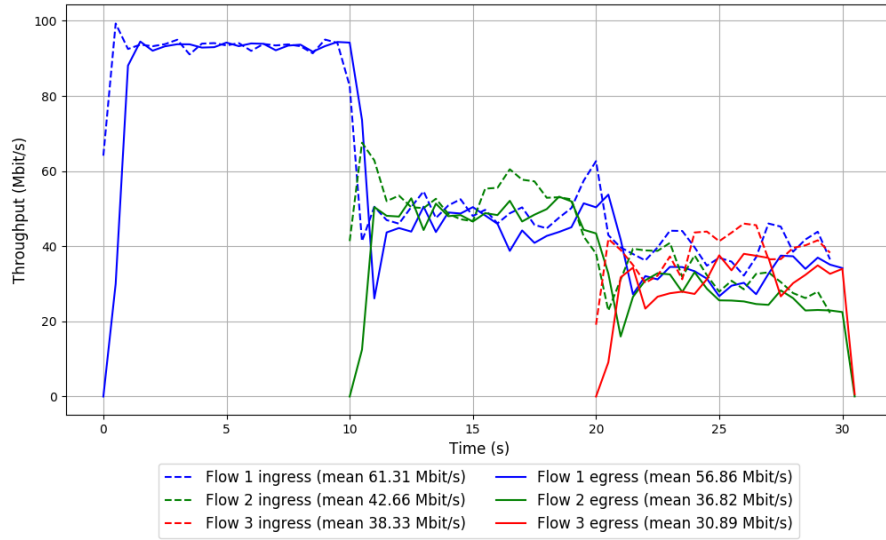
-- Flow 3:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 68.581 ms

Loss rate: 19.52%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 00:23:09

End at: 2019-10-03 00:23:39

Local clock offset: -0.59 ms

Remote clock offset: 1.193 ms

# Below is generated by plot.py at 2019-10-03 01:09:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 66.208 ms

Loss rate: 9.81%

-- Flow 1:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 62.009 ms

Loss rate: 5.94%

-- Flow 2:

Average throughput: 43.02 Mbit/s

95th percentile per-packet one-way delay: 67.197 ms

Loss rate: 11.25%

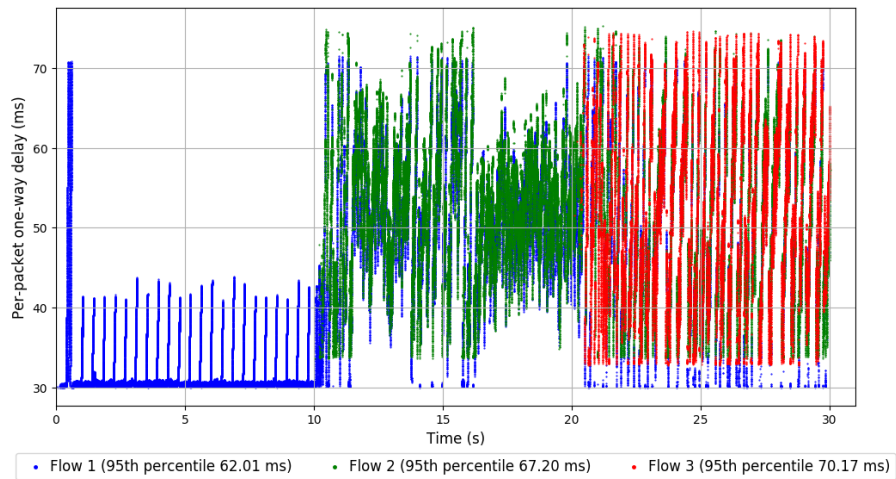
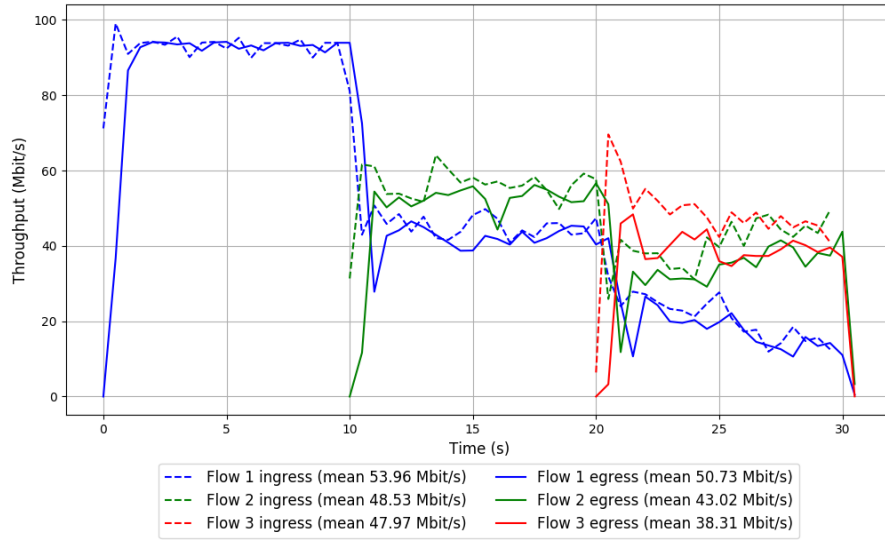
-- Flow 3:

Average throughput: 38.31 Mbit/s

95th percentile per-packet one-way delay: 70.170 ms

Loss rate: 20.03%

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



Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 00:52:12

End at: 2019-10-03 00:52:42

Local clock offset: 4.483 ms

Remote clock offset: 1.589 ms

# Below is generated by plot.py at 2019-10-03 01:09:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.23 Mbit/s

95th percentile per-packet one-way delay: 68.703 ms

Loss rate: 10.66%

-- Flow 1:

Average throughput: 50.14 Mbit/s

95th percentile per-packet one-way delay: 65.952 ms

Loss rate: 6.84%

-- Flow 2:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 70.437 ms

Loss rate: 14.22%

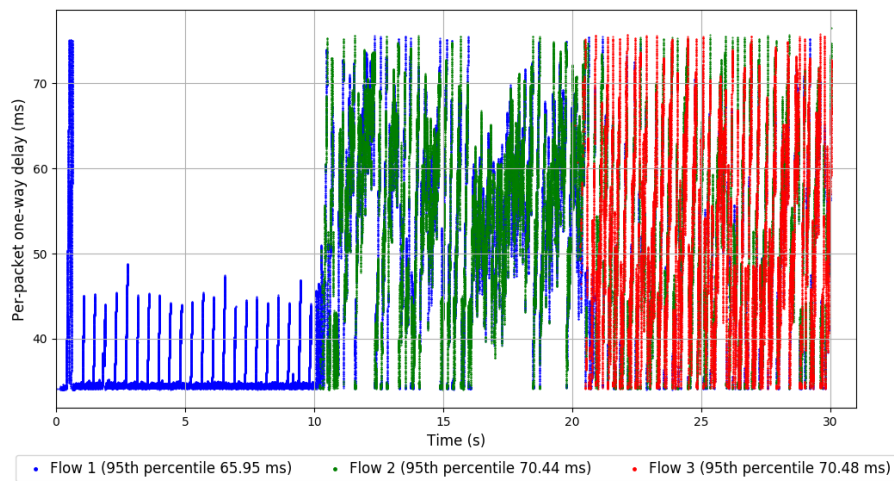
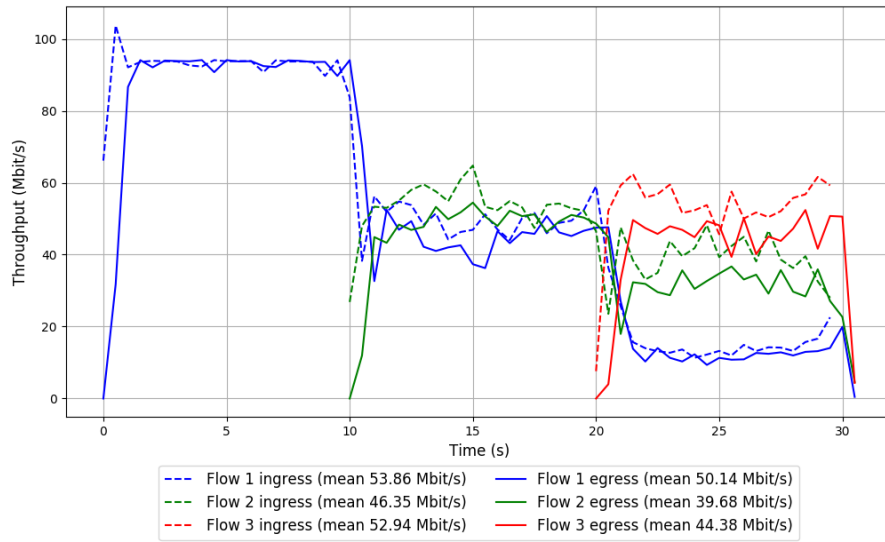
-- Flow 3:

Average throughput: 44.38 Mbit/s

95th percentile per-packet one-way delay: 70.484 ms

Loss rate: 16.15%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-10-02 22:50:17

End at: 2019-10-02 22:50:47

Local clock offset: 2.944 ms

Remote clock offset: 0.7 ms

# Below is generated by plot.py at 2019-10-03 01:09:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 38.765 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 64.10 Mbit/s

95th percentile per-packet one-way delay: 38.563 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 39.707 ms

Loss rate: 0.00%

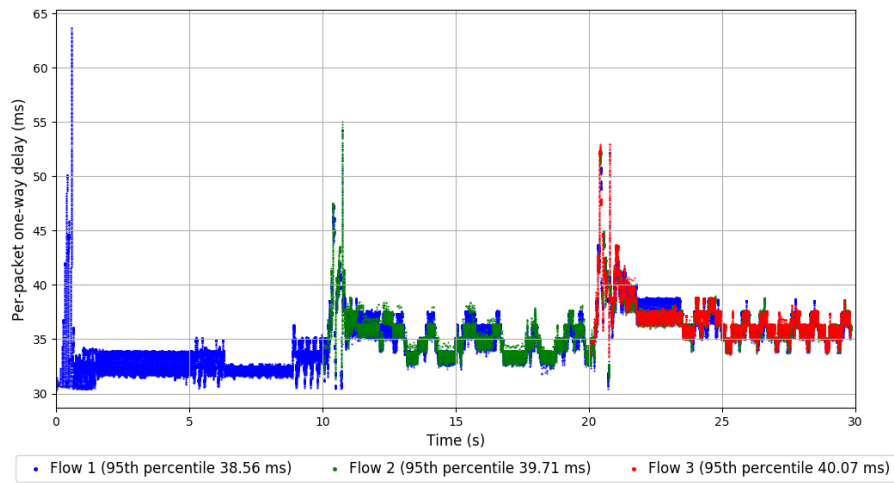
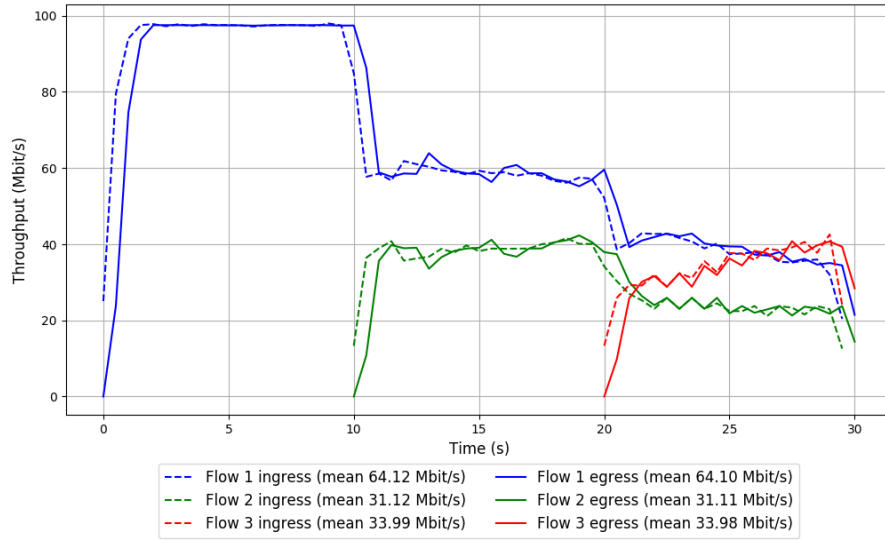
-- Flow 3:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 40.066 ms

Loss rate: 0.00%

# Run 1: Report of Indigo — Data Link



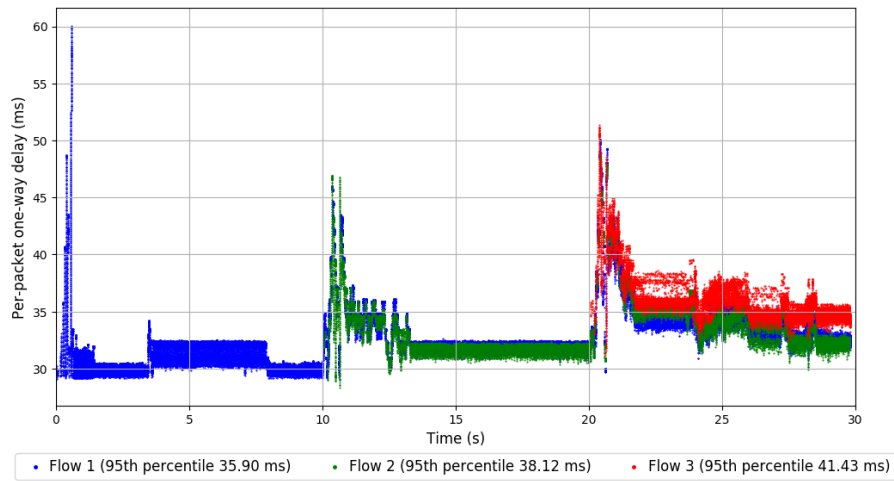
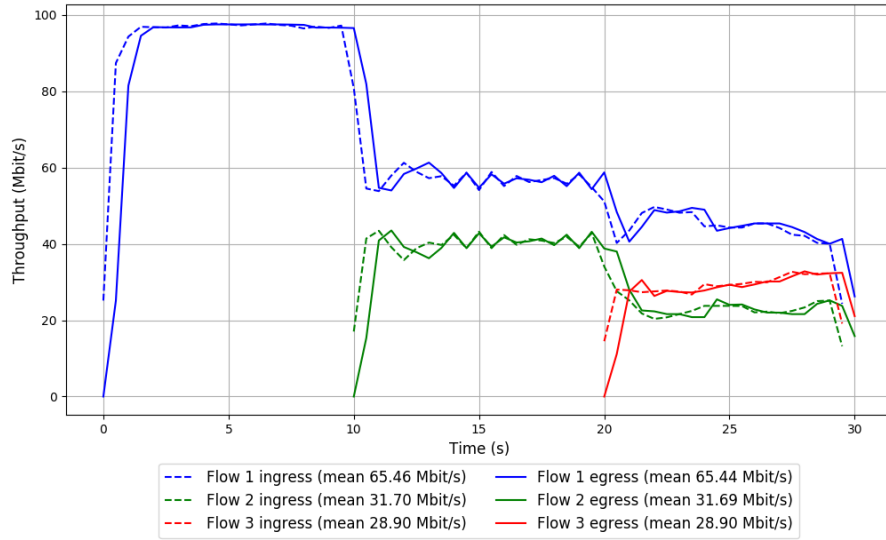


Run 2: Statistics of Indigo

Start at: 2019-10-02 23:19:53  
End at: 2019-10-02 23:20:23  
Local clock offset: 0.5 ms  
Remote clock offset: -0.179 ms

```
# Below is generated by plot.py at 2019-10-03 01:09:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 37.701 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 65.44 Mbit/s
95th percentile per-packet one-way delay: 35.902 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 38.124 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 41.433 ms
Loss rate: 0.01%
```

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-02 23:49:04

End at: 2019-10-02 23:49:34

Local clock offset: 0.845 ms

Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2019-10-03 01:09:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 38.697 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 63.19 Mbit/s

95th percentile per-packet one-way delay: 38.179 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.45 Mbit/s

95th percentile per-packet one-way delay: 39.711 ms

Loss rate: 0.02%

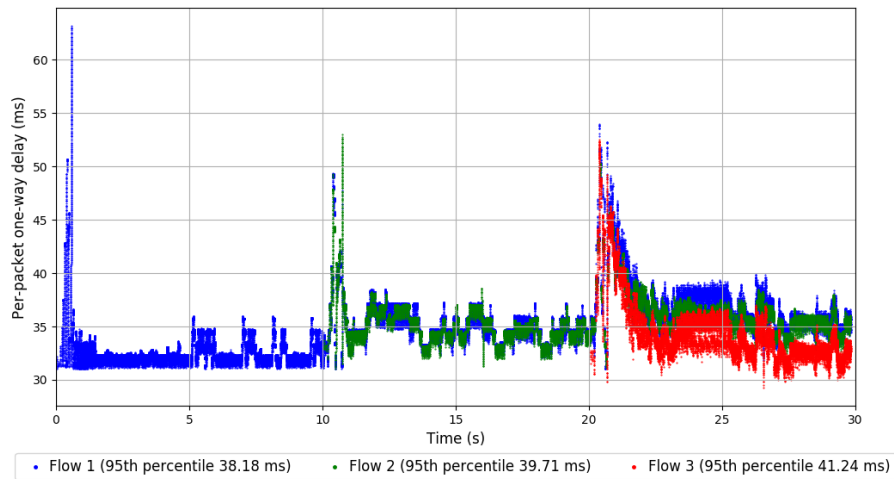
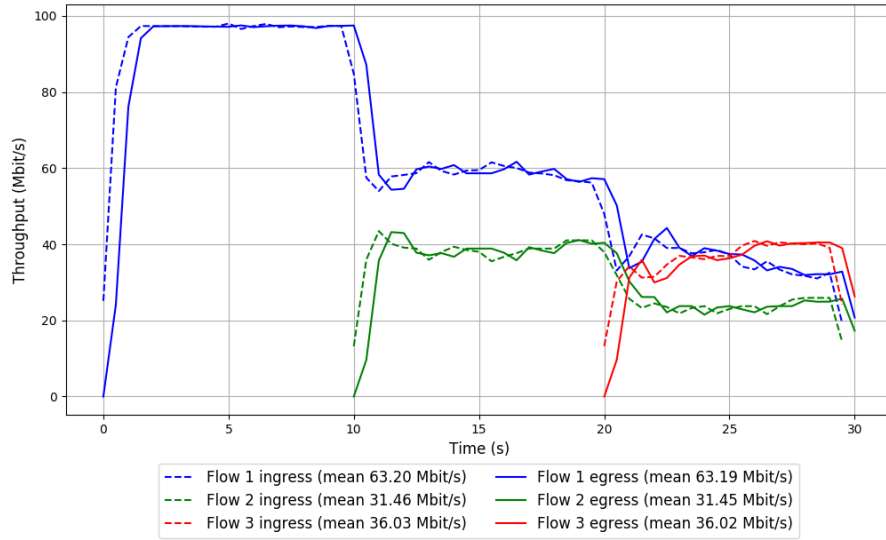
-- Flow 3:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 41.244 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo

Start at: 2019-10-03 00:18:14

End at: 2019-10-03 00:18:44

Local clock offset: 1.163 ms

Remote clock offset: 2.453 ms

# Below is generated by plot.py at 2019-10-03 01:09:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 38.894 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 65.94 Mbit/s

95th percentile per-packet one-way delay: 37.151 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 40.300 ms

Loss rate: 0.01%

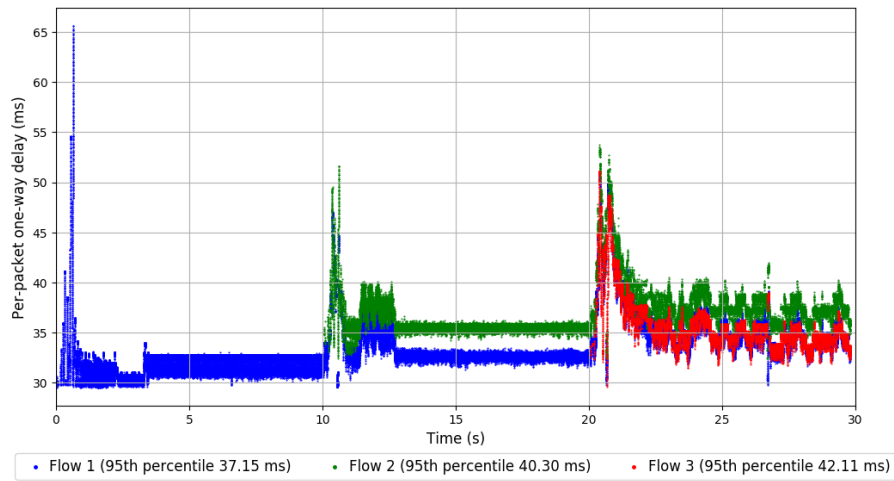
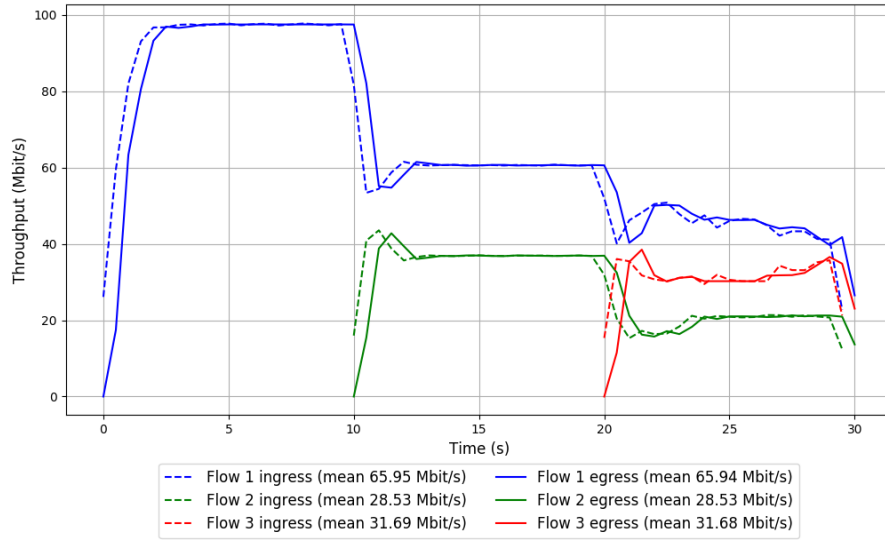
-- Flow 3:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 42.110 ms

Loss rate: 0.02%

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



Run 5: Statistics of Indigo

Start at: 2019-10-03 00:47:27

End at: 2019-10-03 00:47:57

Local clock offset: 9.361 ms

Remote clock offset: 2.783 ms

# Below is generated by plot.py at 2019-10-03 01:10:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 37.254 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 35.021 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 36.340 ms

Loss rate: 0.24%

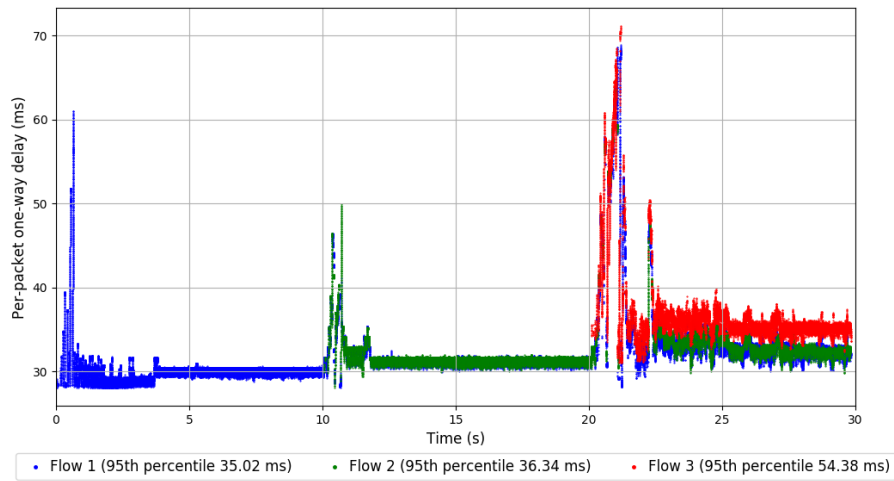
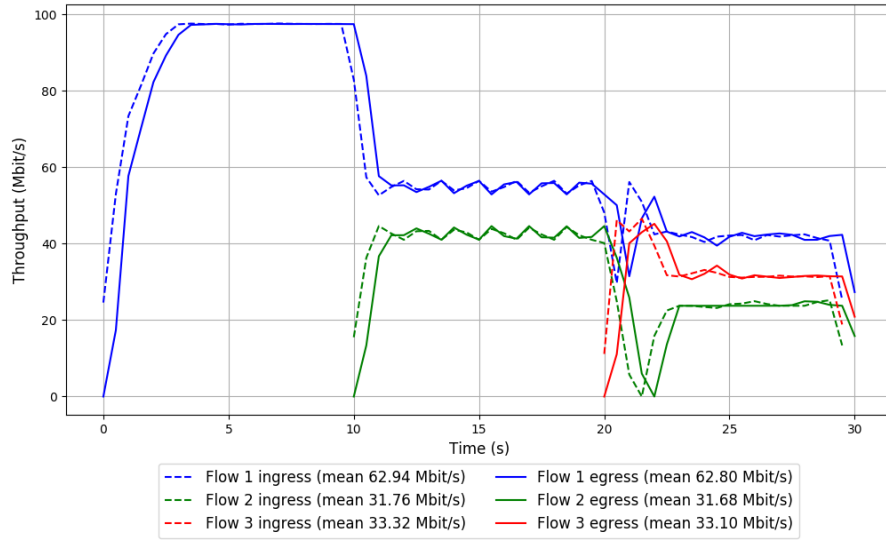
-- Flow 3:

Average throughput: 33.10 Mbit/s

95th percentile per-packet one-way delay: 54.379 ms

Loss rate: 0.68%

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





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-02 23:02:23

End at: 2019-10-02 23:02:53

Local clock offset: 0.881 ms

Remote clock offset: 0.637 ms

# Below is generated by plot.py at 2019-10-03 01:10:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.39 Mbit/s

95th percentile per-packet one-way delay: 42.315 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 40.260 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 50.58 Mbit/s

95th percentile per-packet one-way delay: 42.273 ms

Loss rate: 1.01%

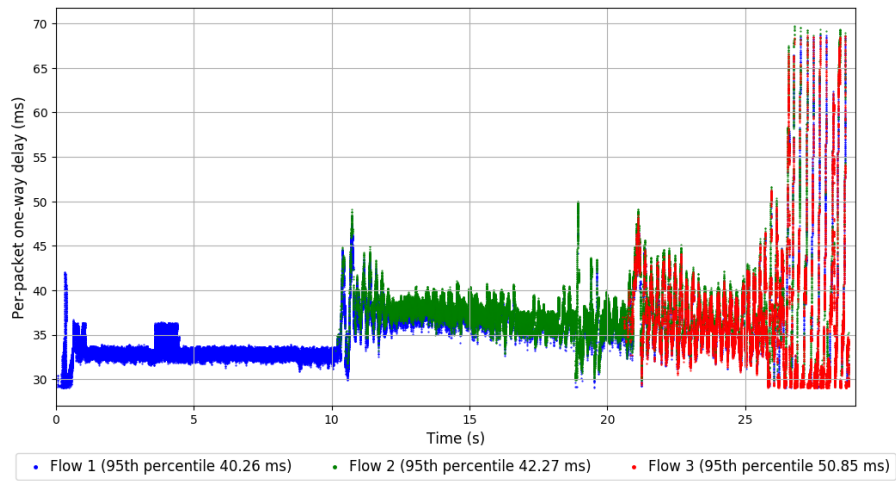
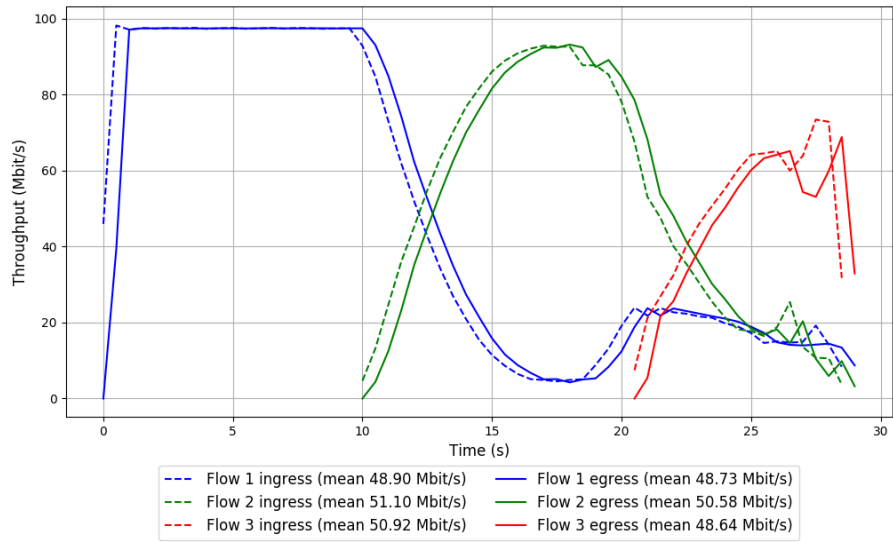
-- Flow 3:

Average throughput: 48.64 Mbit/s

95th percentile per-packet one-way delay: 50.849 ms

Loss rate: 4.55%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-02 23:32:00

End at: 2019-10-02 23:32:30

Local clock offset: 0.159 ms

Remote clock offset: 1.752 ms

# Below is generated by plot.py at 2019-10-03 01:10:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 44.046 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 48.59 Mbit/s

95th percentile per-packet one-way delay: 40.638 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 43.801 ms

Loss rate: 0.02%

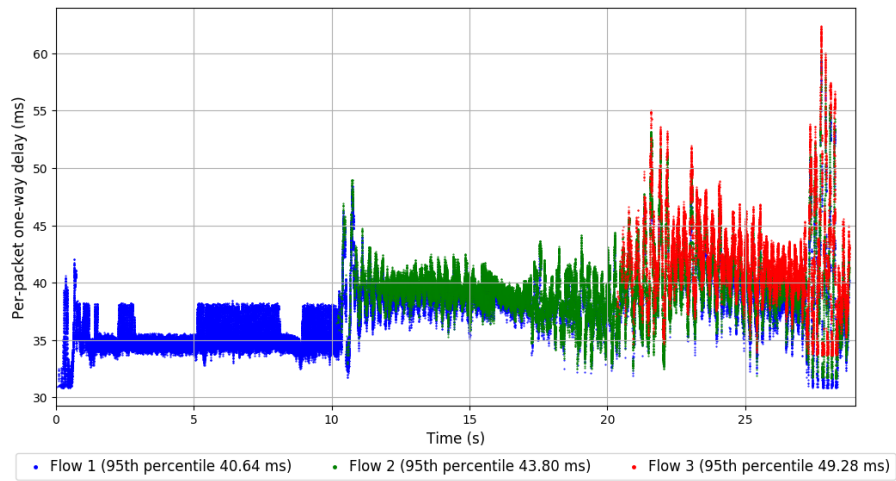
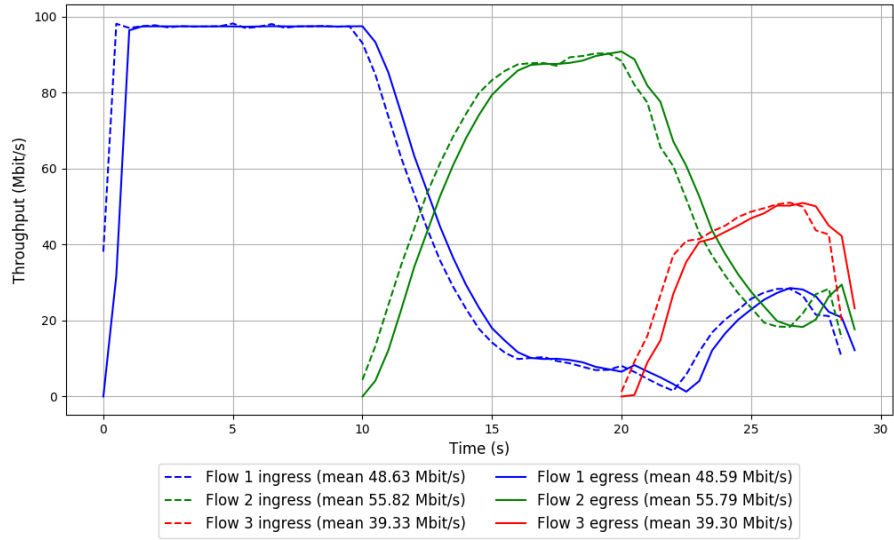
-- Flow 3:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 49.276 ms

Loss rate: 0.02%

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



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 00:01:05

End at: 2019-10-03 00:01:35

Local clock offset: 4.059 ms

Remote clock offset: 2.907 ms

# Below is generated by plot.py at 2019-10-03 01:10:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.88 Mbit/s

95th percentile per-packet one-way delay: 44.245 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 52.85 Mbit/s

95th percentile per-packet one-way delay: 41.475 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 45.172 ms

Loss rate: 0.59%

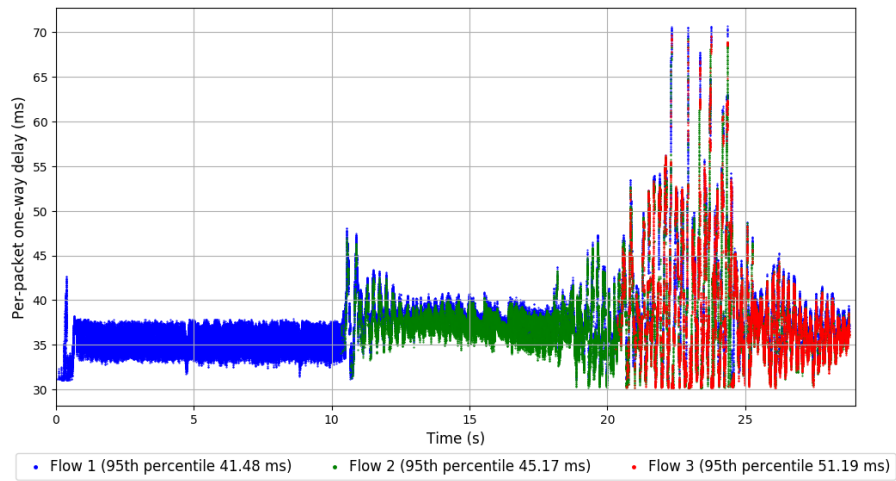
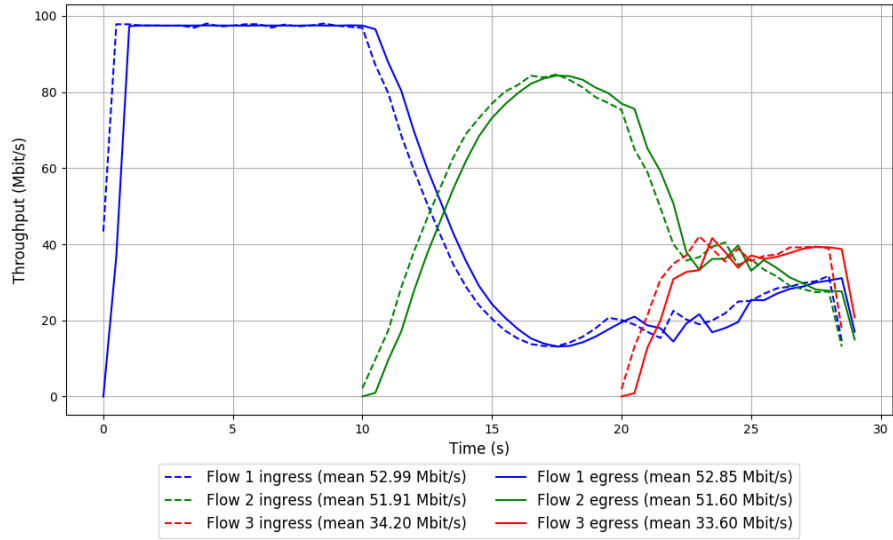
-- Flow 3:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 51.187 ms

Loss rate: 1.75%

### Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 00:30:27

End at: 2019-10-03 00:30:57

Local clock offset: 1.843 ms

Remote clock offset: 1.811 ms

# Below is generated by plot.py at 2019-10-03 01:10:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 46.859 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 43.527 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 45.631 ms

Loss rate: 0.38%

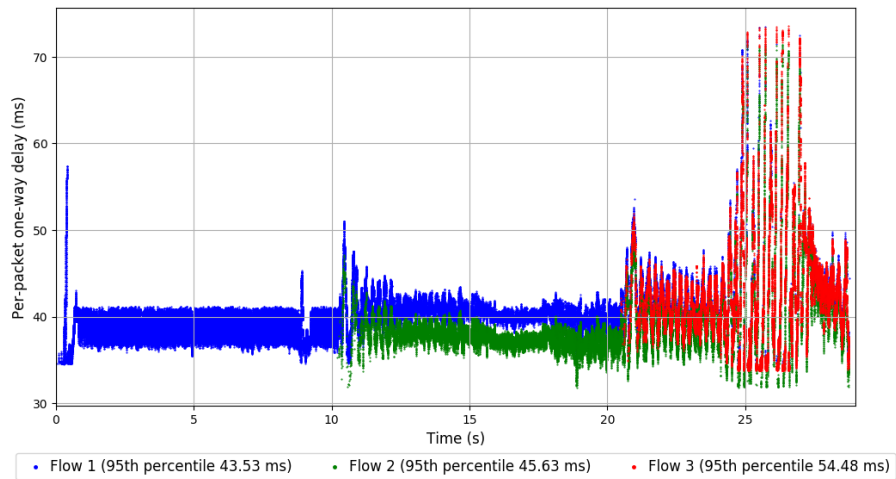
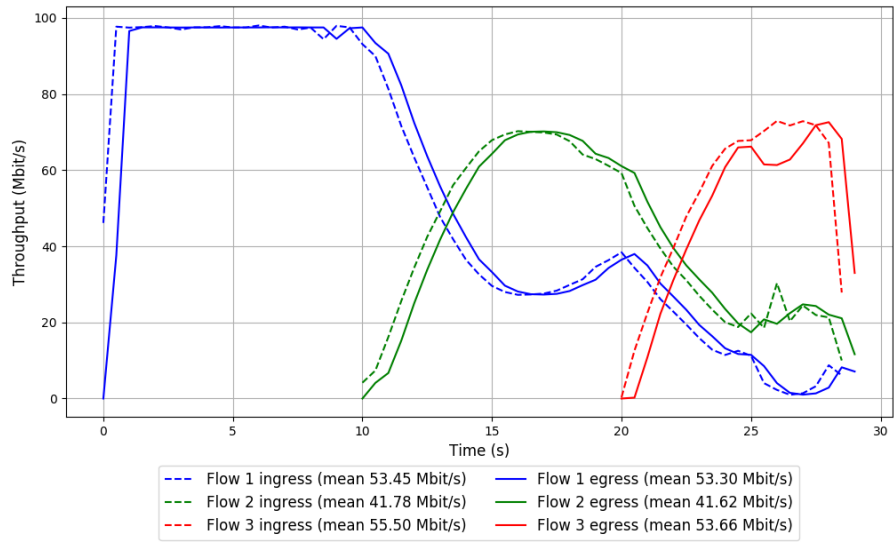
-- Flow 3:

Average throughput: 53.66 Mbit/s

95th percentile per-packet one-way delay: 54.479 ms

Loss rate: 3.32%

### Run 4: Report of Indigo-MusesC3 — Data Link





Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 00:59:35

End at: 2019-10-03 01:00:05

Local clock offset: 5.533 ms

Remote clock offset: 2.582 ms

# Below is generated by plot.py at 2019-10-03 01:11:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 41.599 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 40.073 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 41.990 ms

Loss rate: 0.01%

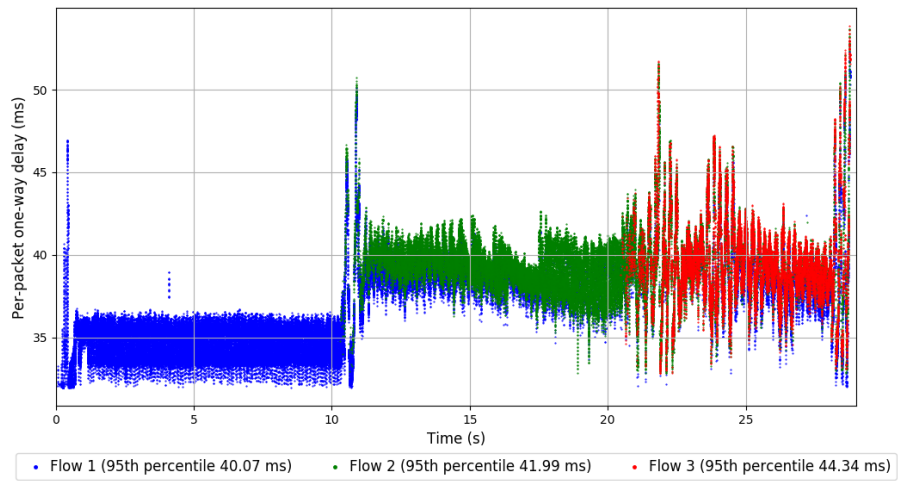
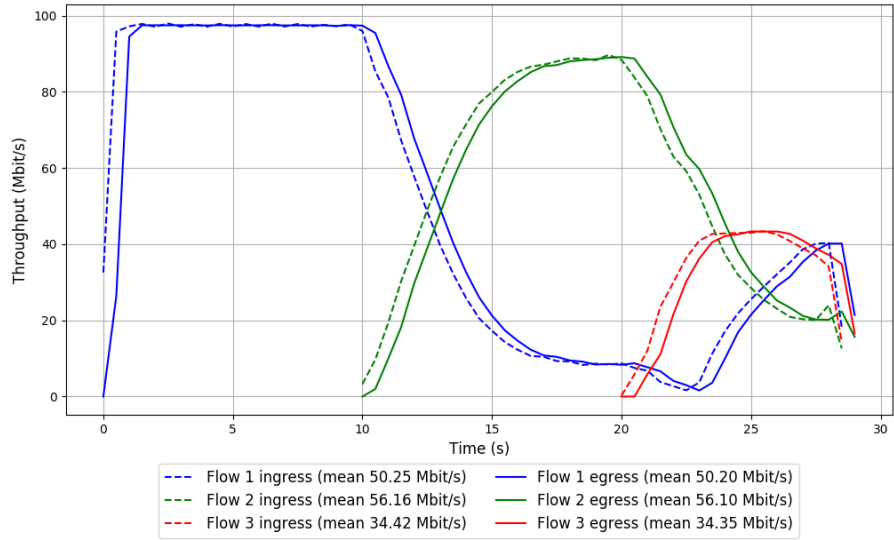
-- Flow 3:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 44.343 ms

Loss rate: 0.07%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-02 22:53:50  
End at: 2019-10-02 22:54:20  
Local clock offset: 1.692 ms  
Remote clock offset: -1.418 ms

# Below is generated by plot.py at 2019-10-03 01:11:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.51 Mbit/s  
95th percentile per-packet one-way delay: 60.812 ms  
Loss rate: 12.36%

-- Flow 1:

Average throughput: 50.04 Mbit/s  
95th percentile per-packet one-way delay: 58.828 ms  
Loss rate: 4.90%

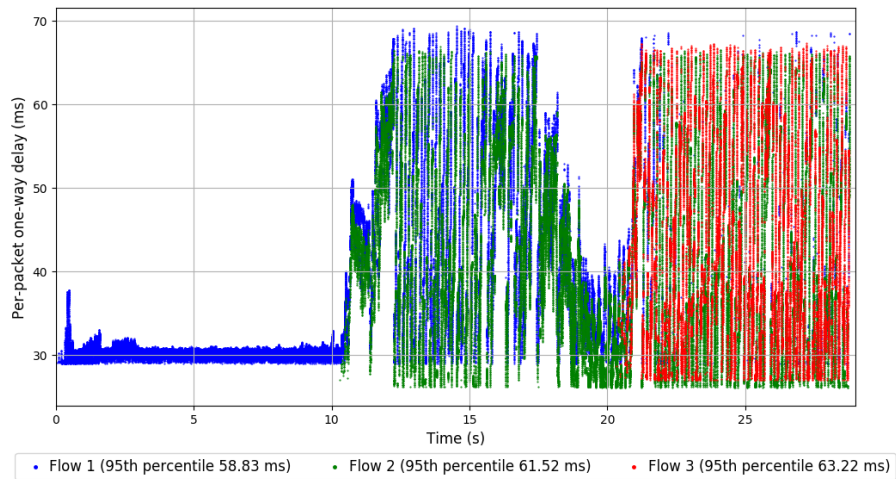
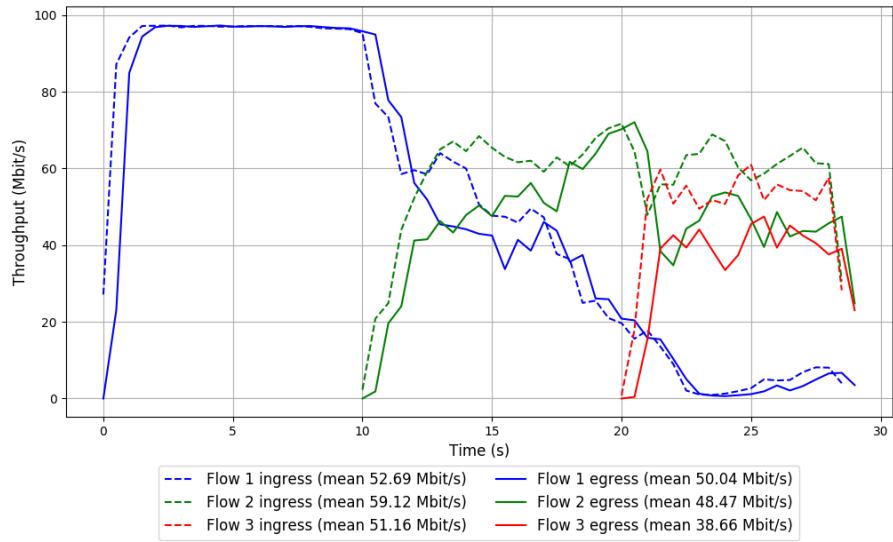
-- Flow 2:

Average throughput: 48.47 Mbit/s  
95th percentile per-packet one-way delay: 61.519 ms  
Loss rate: 17.91%

-- Flow 3:

Average throughput: 38.66 Mbit/s  
95th percentile per-packet one-way delay: 63.218 ms  
Loss rate: 24.47%

# Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:23:30

End at: 2019-10-02 23:24:00

Local clock offset: 2.704 ms

Remote clock offset: 0.611 ms

# Below is generated by plot.py at 2019-10-03 01:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.05 Mbit/s

95th percentile per-packet one-way delay: 60.534 ms

Loss rate: 8.00%

-- Flow 1:

Average throughput: 53.14 Mbit/s

95th percentile per-packet one-way delay: 51.545 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 62.073 ms

Loss rate: 12.15%

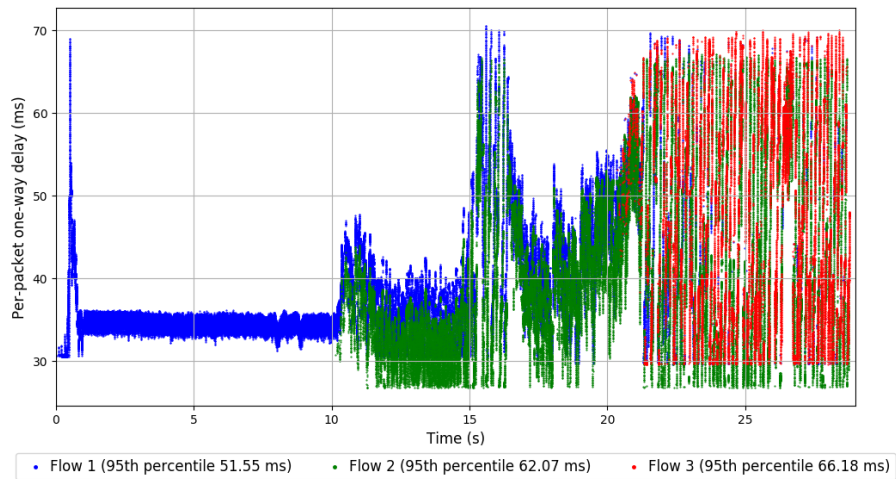
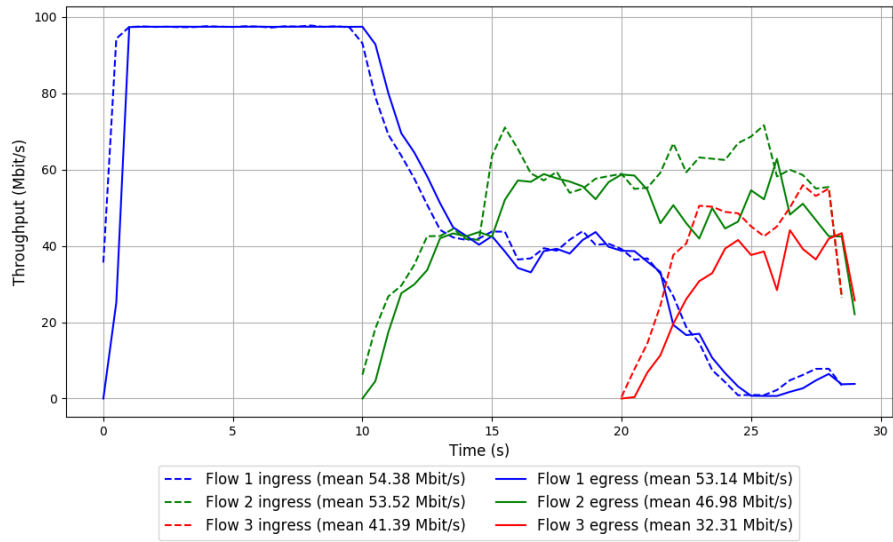
-- Flow 3:

Average throughput: 32.31 Mbit/s

95th percentile per-packet one-way delay: 66.177 ms

Loss rate: 21.99%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:52:42

End at: 2019-10-02 23:53:12

Local clock offset: 3.752 ms

Remote clock offset: 0.555 ms

# Below is generated by plot.py at 2019-10-03 01:11:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 59.724 ms

Loss rate: 8.41%

-- Flow 1:

Average throughput: 50.92 Mbit/s

95th percentile per-packet one-way delay: 56.451 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 49.63 Mbit/s

95th percentile per-packet one-way delay: 60.766 ms

Loss rate: 11.91%

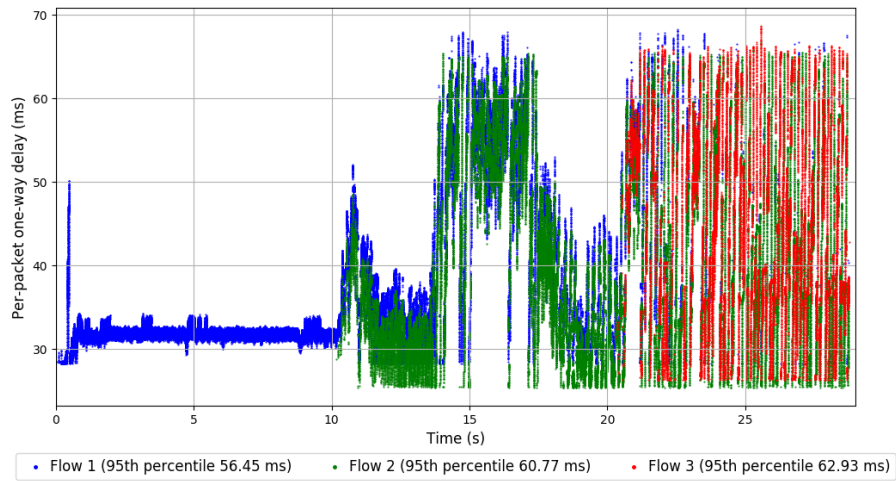
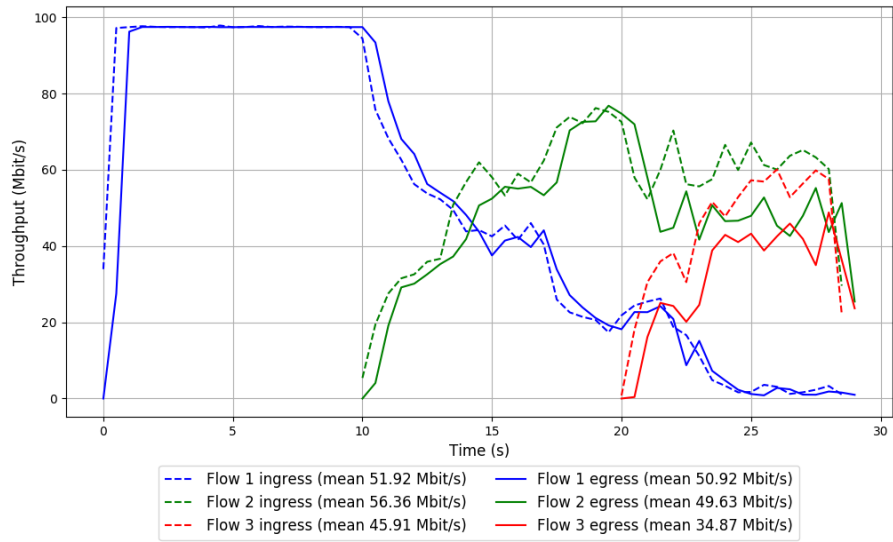
-- Flow 3:

Average throughput: 34.87 Mbit/s

95th percentile per-packet one-way delay: 62.927 ms

Loss rate: 23.94%

### Run 3: Report of Indigo-MusesC5 — Data Link





Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 00:21:55

End at: 2019-10-03 00:22:25

Local clock offset: 3.945 ms

Remote clock offset: 1.899 ms

# Below is generated by plot.py at 2019-10-03 01:11:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 61.775 ms

Loss rate: 11.11%

-- Flow 1:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 62.012 ms

Loss rate: 9.40%

-- Flow 2:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 61.427 ms

Loss rate: 13.49%

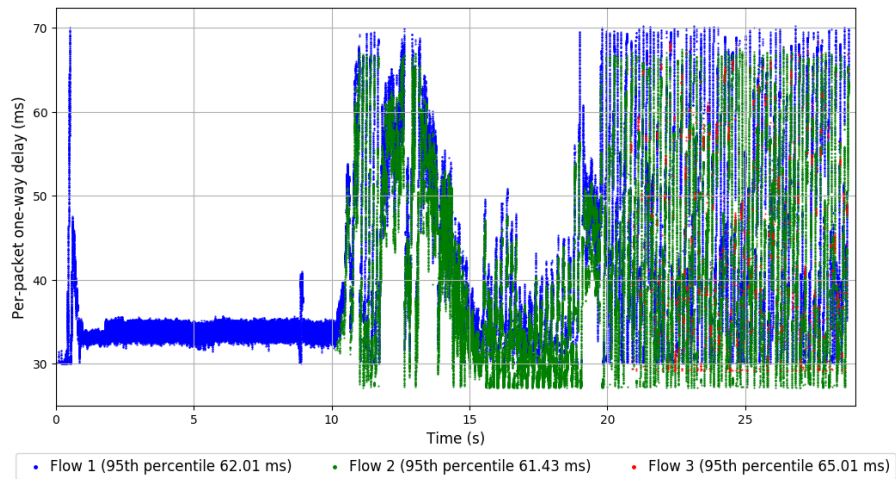
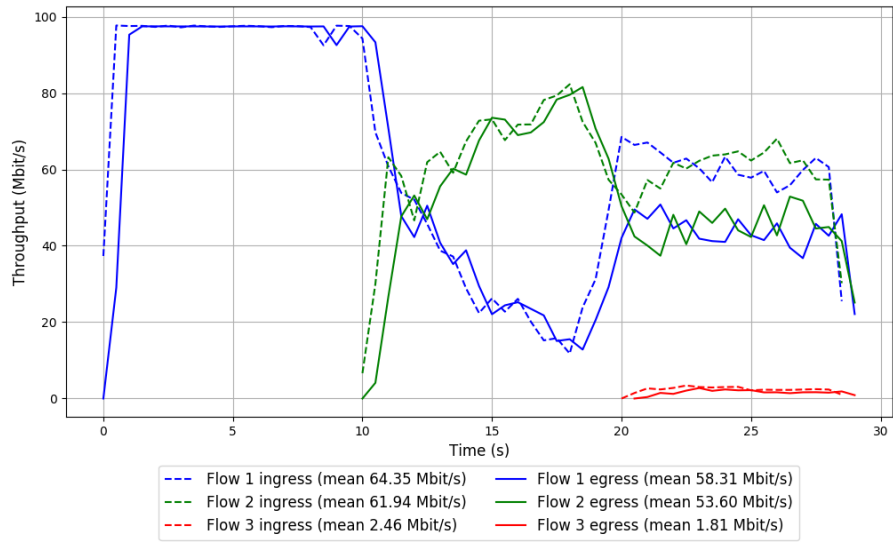
-- Flow 3:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 65.013 ms

Loss rate: 30.93%

### Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 00:51:00

End at: 2019-10-03 00:51:30

Local clock offset: 9.267 ms

Remote clock offset: 2.093 ms

# Below is generated by plot.py at 2019-10-03 01:11:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 64.066 ms

Loss rate: 16.88%

-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 62.082 ms

Loss rate: 9.91%

-- Flow 2:

Average throughput: 50.72 Mbit/s

95th percentile per-packet one-way delay: 65.163 ms

Loss rate: 19.08%

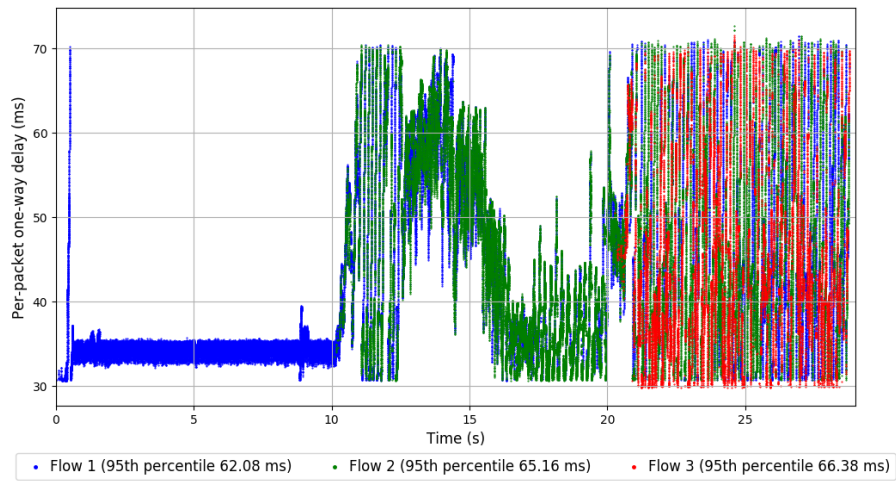
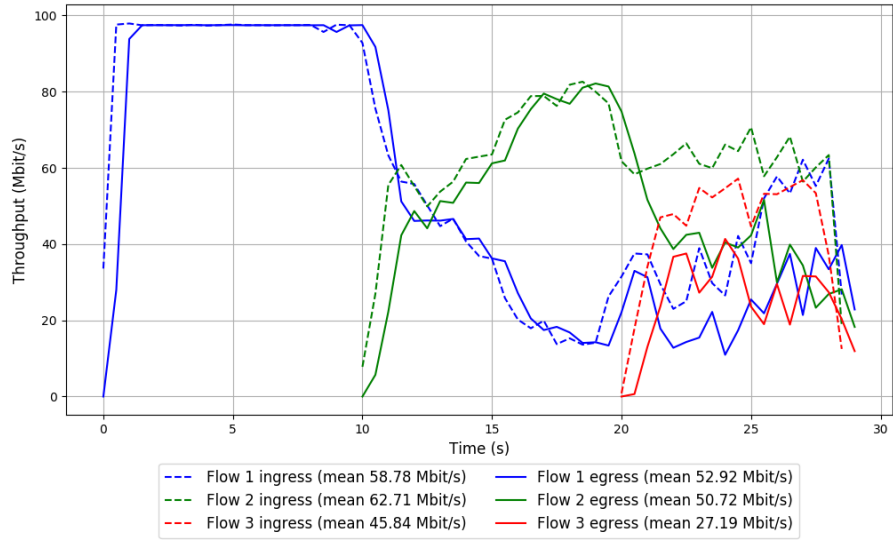
-- Flow 3:

Average throughput: 27.19 Mbit/s

95th percentile per-packet one-way delay: 66.375 ms

Loss rate: 40.59%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-02 22:41:44  
End at: 2019-10-02 22:42:14  
Local clock offset: 0.614 ms  
Remote clock offset: -1.832 ms

# Below is generated by plot.py at 2019-10-03 01:11:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 37.990 ms  
Loss rate: 0.03%

-- Flow 1:

Average throughput: 54.78 Mbit/s  
95th percentile per-packet one-way delay: 36.032 ms  
Loss rate: 0.03%

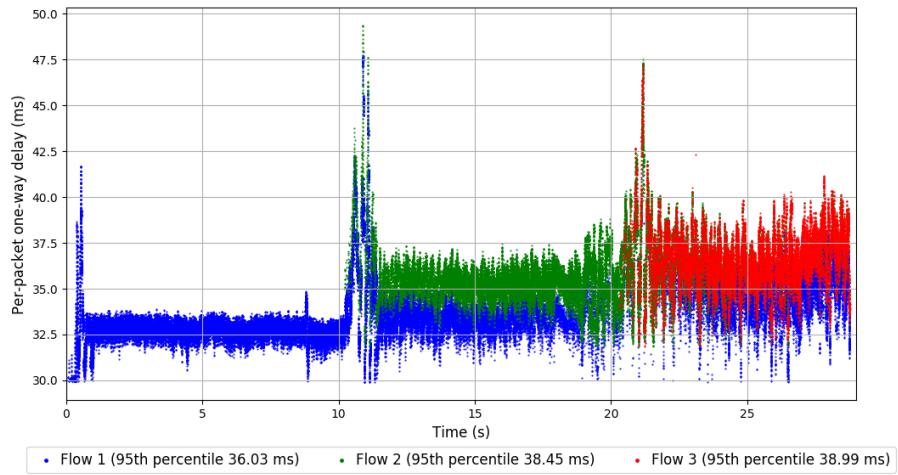
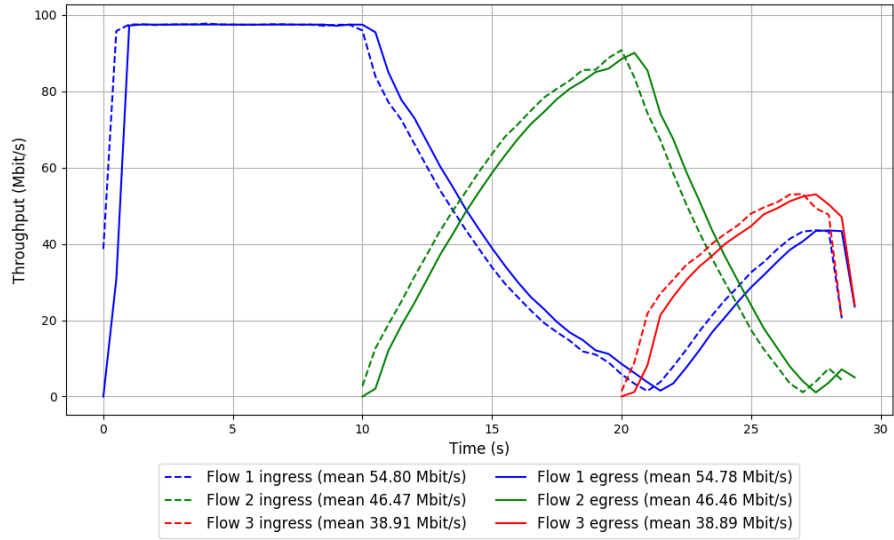
-- Flow 2:

Average throughput: 46.46 Mbit/s  
95th percentile per-packet one-way delay: 38.445 ms  
Loss rate: 0.04%

-- Flow 3:

Average throughput: 38.89 Mbit/s  
95th percentile per-packet one-way delay: 38.992 ms  
Loss rate: 0.05%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-02 23:11:00  
End at: 2019-10-02 23:11:30  
Local clock offset: 1.625 ms  
Remote clock offset: -3.622 ms

# Below is generated by plot.py at 2019-10-03 01:12:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.07 Mbit/s  
95th percentile per-packet one-way delay: 31.596 ms  
Loss rate: 0.02%

-- Flow 1:

Average throughput: 55.58 Mbit/s  
95th percentile per-packet one-way delay: 30.692 ms  
Loss rate: 0.02%

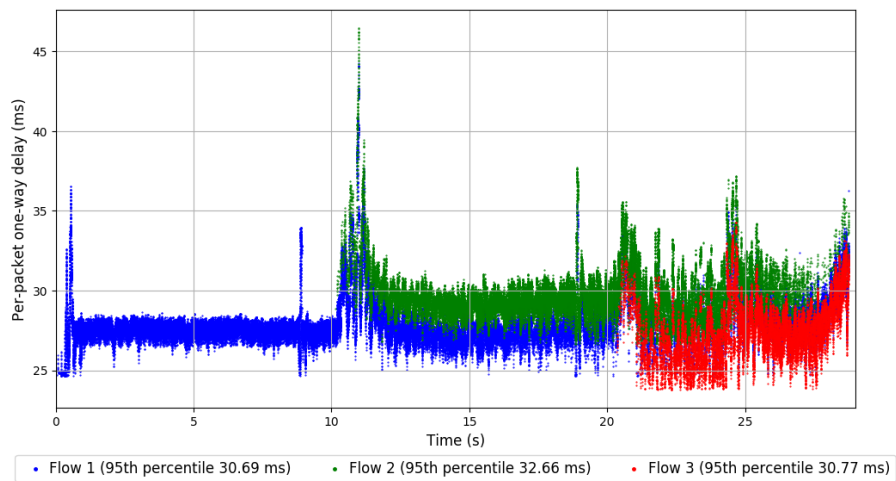
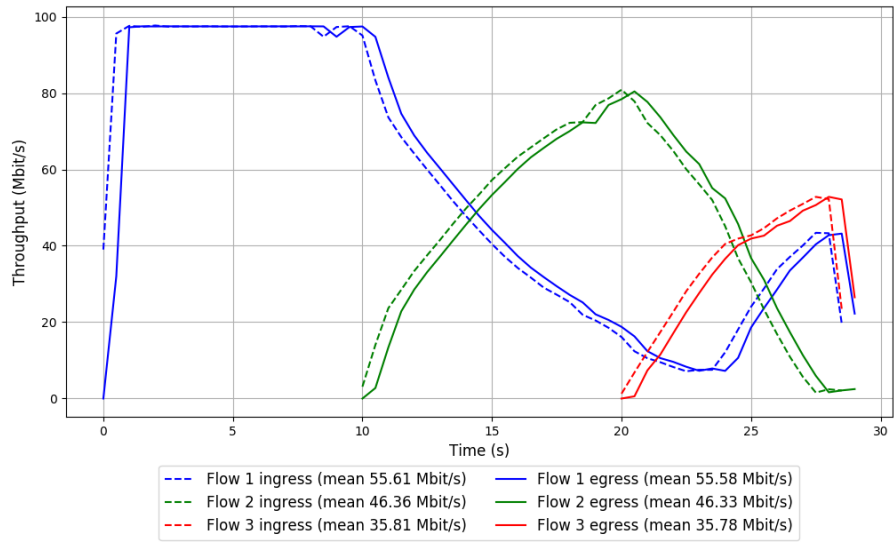
-- Flow 2:

Average throughput: 46.33 Mbit/s  
95th percentile per-packet one-way delay: 32.658 ms  
Loss rate: 0.03%

-- Flow 3:

Average throughput: 35.78 Mbit/s  
95th percentile per-packet one-way delay: 30.769 ms  
Loss rate: 0.00%

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





Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-02 23:40:22

End at: 2019-10-02 23:40:52

Local clock offset: -1.584 ms

Remote clock offset: 1.842 ms

# Below is generated by plot.py at 2019-10-03 01:12:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 40.248 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 39.267 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 38.448 ms

Loss rate: 0.02%

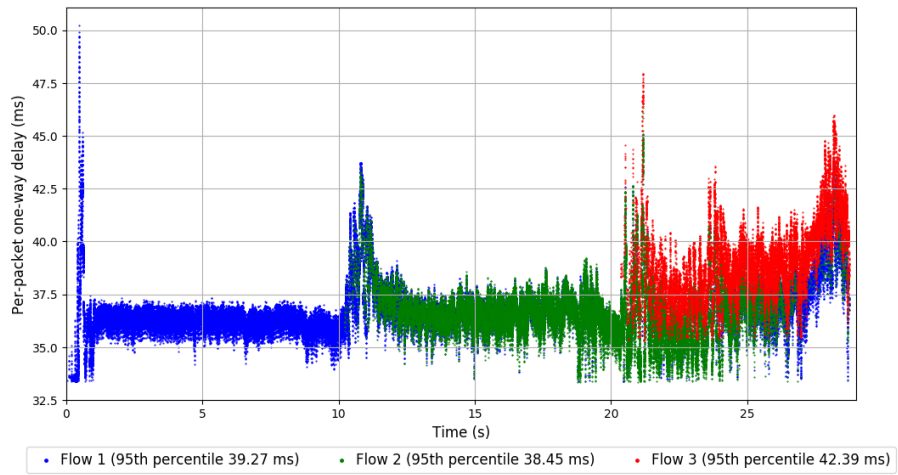
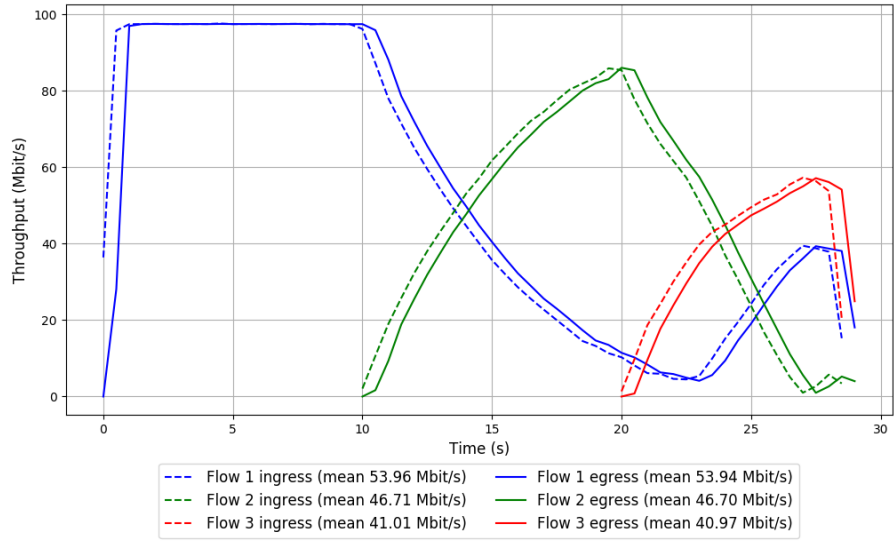
-- Flow 3:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 42.390 ms

Loss rate: 0.06%

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



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 00:09:37

End at: 2019-10-03 00:10:07

Local clock offset: -0.934 ms

Remote clock offset: 2.937 ms

# Below is generated by plot.py at 2019-10-03 01:12:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.88 Mbit/s

95th percentile per-packet one-way delay: 39.999 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 36.941 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 45.03 Mbit/s

95th percentile per-packet one-way delay: 40.874 ms

Loss rate: 0.01%

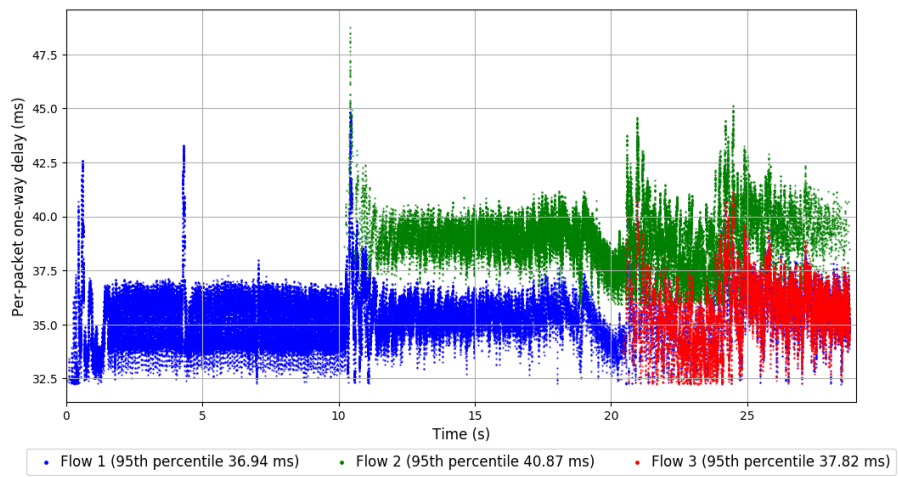
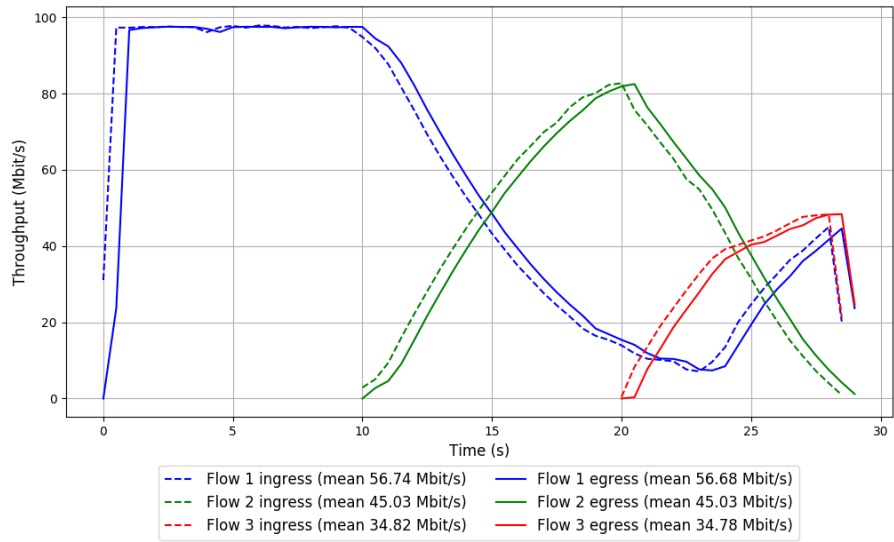
-- Flow 3:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 37.816 ms

Loss rate: 0.08%

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



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 00:38:56

End at: 2019-10-03 00:39:26

Local clock offset: 3.163 ms

Remote clock offset: 3.812 ms

# Below is generated by plot.py at 2019-10-03 01:12:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 42.863 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 43.389 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 39.444 ms

Loss rate: 0.01%

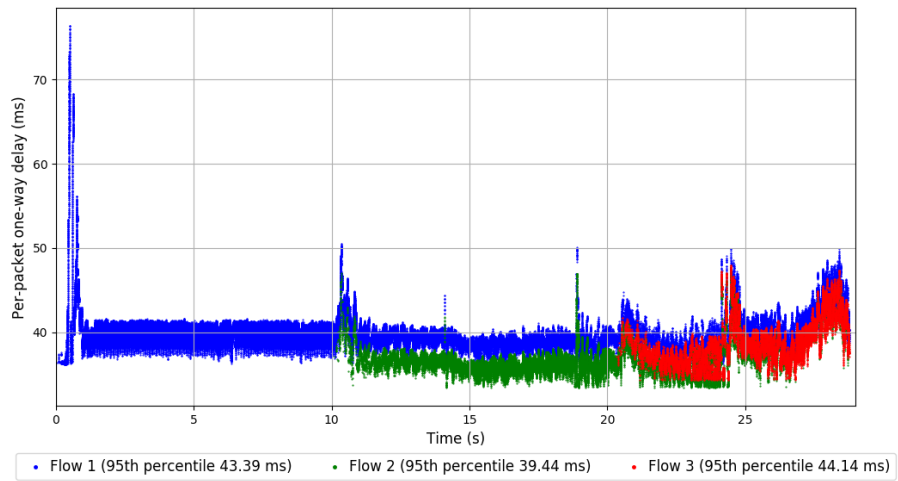
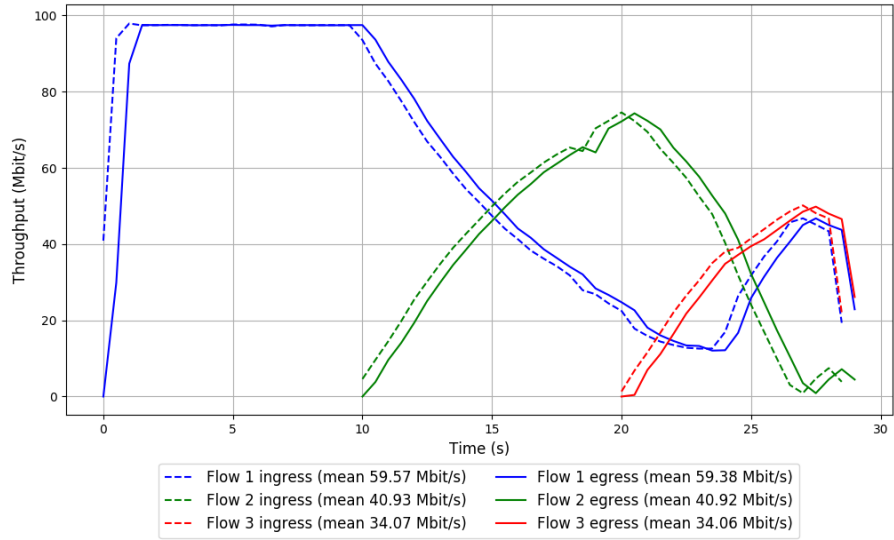
-- Flow 3:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 44.138 ms

Loss rate: 0.03%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-10-02 22:40:32  
End at: 2019-10-02 22:41:02  
Local clock offset: -0.933 ms  
Remote clock offset: -2.121 ms

# Below is generated by plot.py at 2019-10-03 01:12:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.91 Mbit/s  
95th percentile per-packet one-way delay: 65.652 ms  
Loss rate: 6.94%

-- Flow 1:

Average throughput: 53.68 Mbit/s  
95th percentile per-packet one-way delay: 58.942 ms  
Loss rate: 4.45%

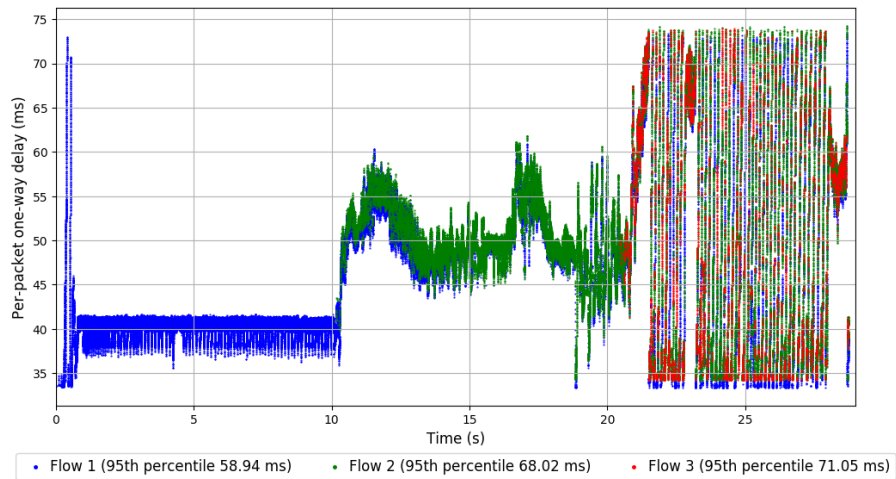
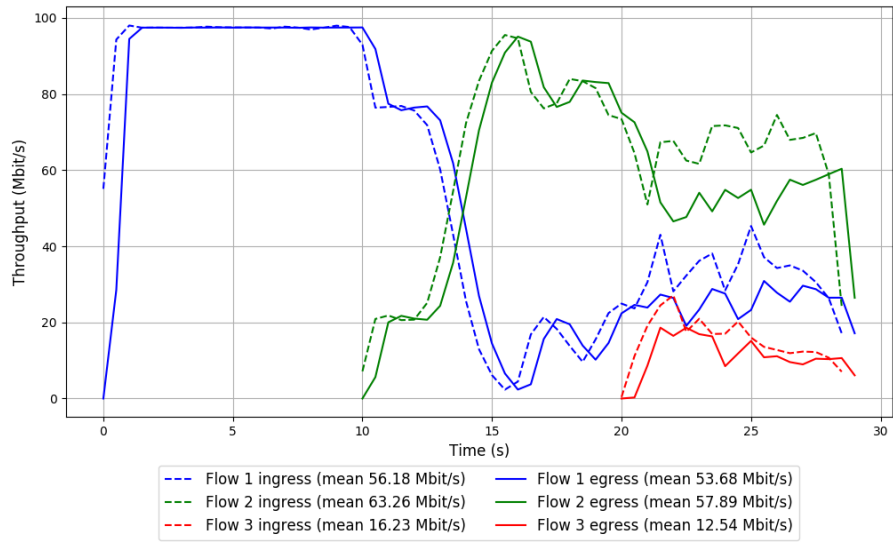
-- Flow 2:

Average throughput: 57.89 Mbit/s  
95th percentile per-packet one-way delay: 68.022 ms  
Loss rate: 8.50%

-- Flow 3:

Average throughput: 12.54 Mbit/s  
95th percentile per-packet one-way delay: 71.047 ms  
Loss rate: 22.89%

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





Run 2: Statistics of Indigo-MuseST

Start at: 2019-10-02 23:09:44

End at: 2019-10-02 23:10:14

Local clock offset: 2.188 ms

Remote clock offset: 1.013 ms

# Below is generated by plot.py at 2019-10-03 01:12:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 63.733 ms

Loss rate: 7.30%

-- Flow 1:

Average throughput: 64.57 Mbit/s

95th percentile per-packet one-way delay: 59.647 ms

Loss rate: 4.49%

-- Flow 2:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 66.706 ms

Loss rate: 11.57%

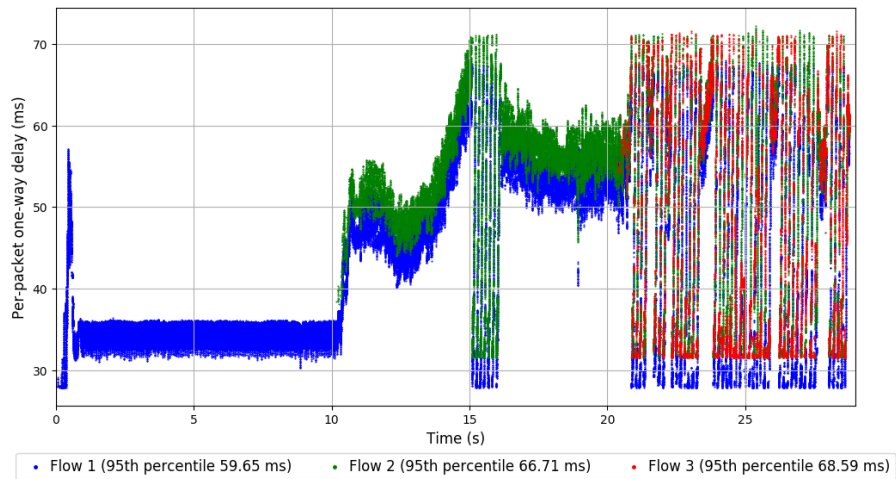
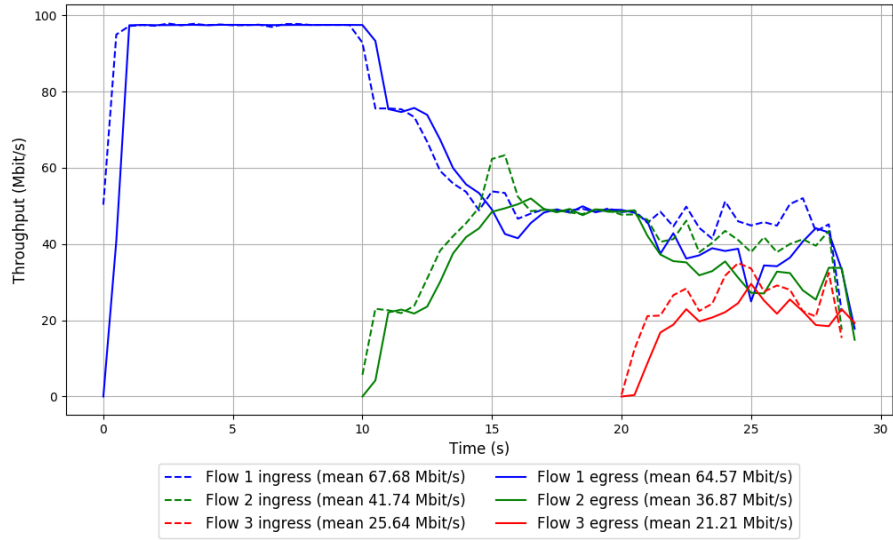
-- Flow 3:

Average throughput: 21.21 Mbit/s

95th percentile per-packet one-way delay: 68.587 ms

Loss rate: 17.24%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-10-02 23:39:10

End at: 2019-10-02 23:39:40

Local clock offset: 2.568 ms

Remote clock offset: 1.186 ms

# Below is generated by plot.py at 2019-10-03 01:13:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 62.605 ms

Loss rate: 7.55%

-- Flow 1:

Average throughput: 64.63 Mbit/s

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

Loss rate: 4.46%

-- Flow 2:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 64.270 ms

Loss rate: 10.46%

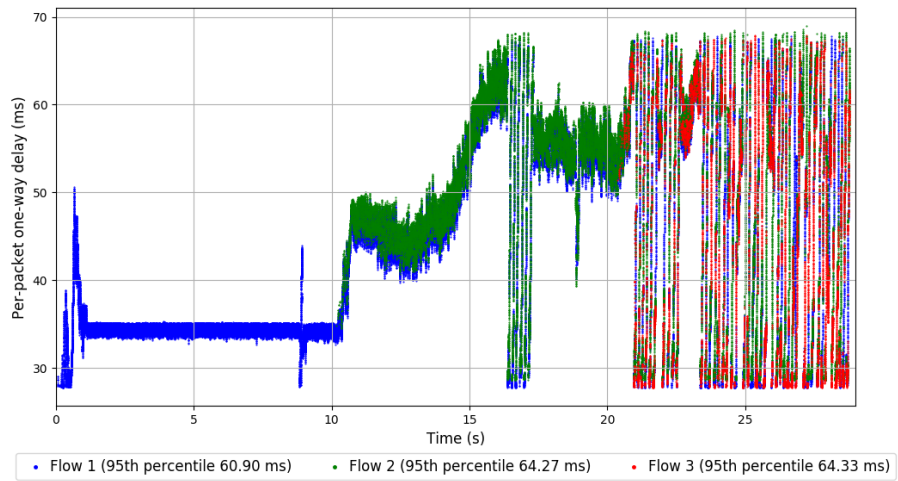
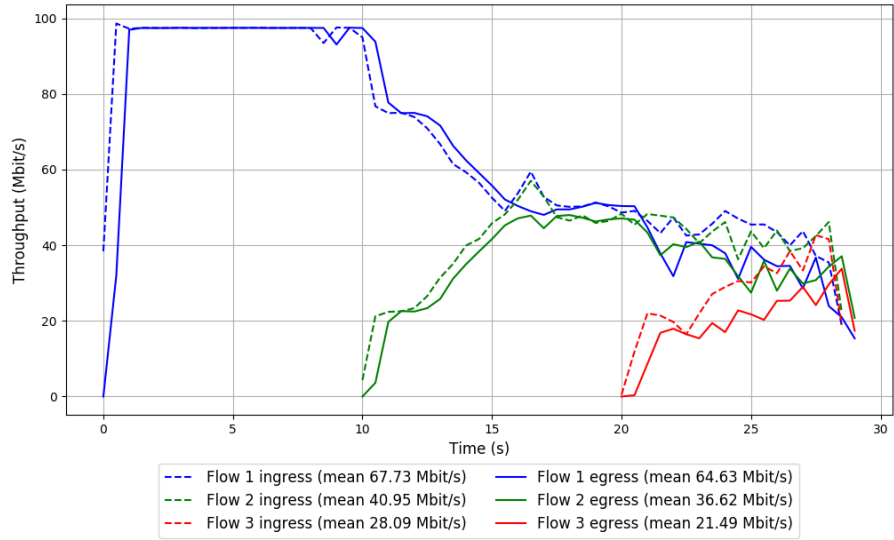
-- Flow 3:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 64.331 ms

Loss rate: 23.53%

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



Run 4: Statistics of Indigo-MuseST

Start at: 2019-10-03 00:08:23

End at: 2019-10-03 00:08:53

Local clock offset: 3.476 ms

Remote clock offset: 1.829 ms

# Below is generated by plot.py at 2019-10-03 01:13:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 61.917 ms

Loss rate: 6.98%

-- Flow 1:

Average throughput: 62.58 Mbit/s

95th percentile per-packet one-way delay: 59.956 ms

Loss rate: 4.50%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 61.606 ms

Loss rate: 9.85%

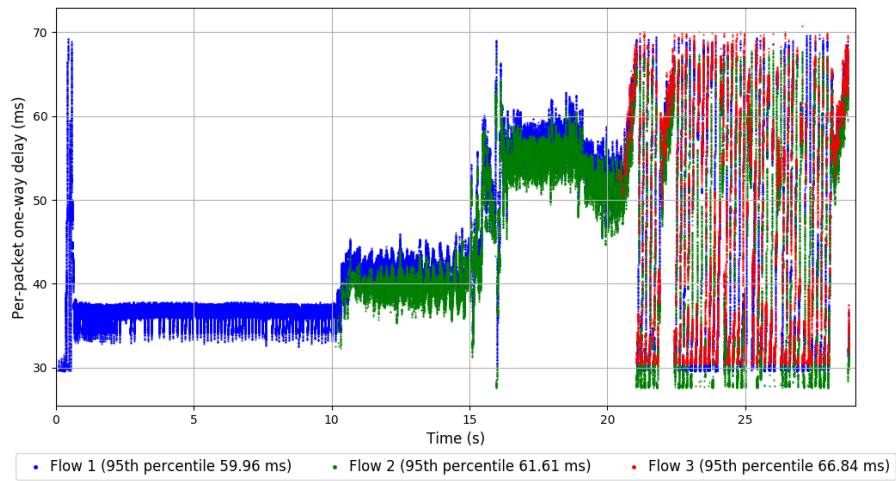
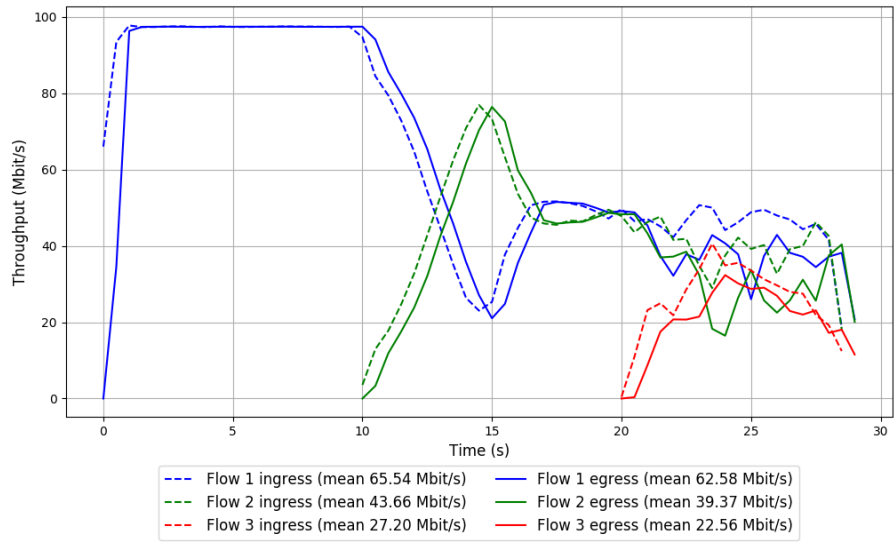
-- Flow 3:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 66.841 ms

Loss rate: 17.26%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-10-03 00:37:42

End at: 2019-10-03 00:38:12

Local clock offset: 5.711 ms

Remote clock offset: 3.433 ms

# Below is generated by plot.py at 2019-10-03 01:13:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 66.706 ms

Loss rate: 7.13%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 63.518 ms

Loss rate: 4.85%

-- Flow 2:

Average throughput: 51.00 Mbit/s

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

Loss rate: 8.20%

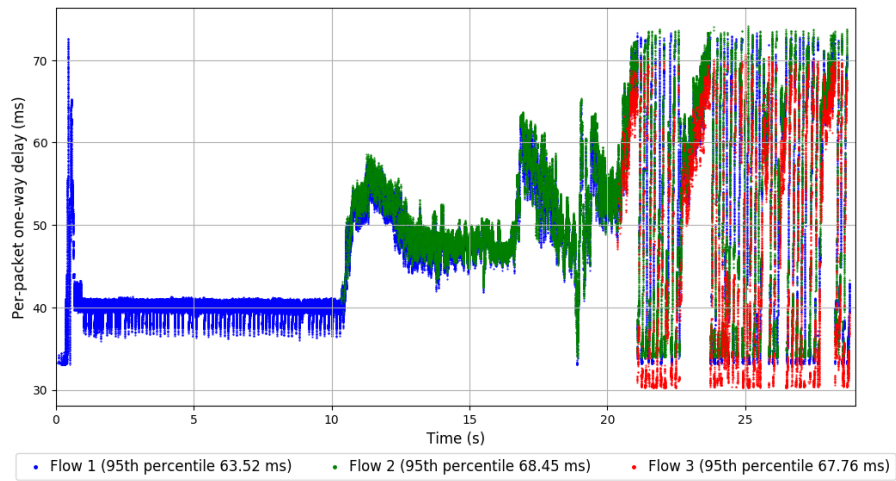
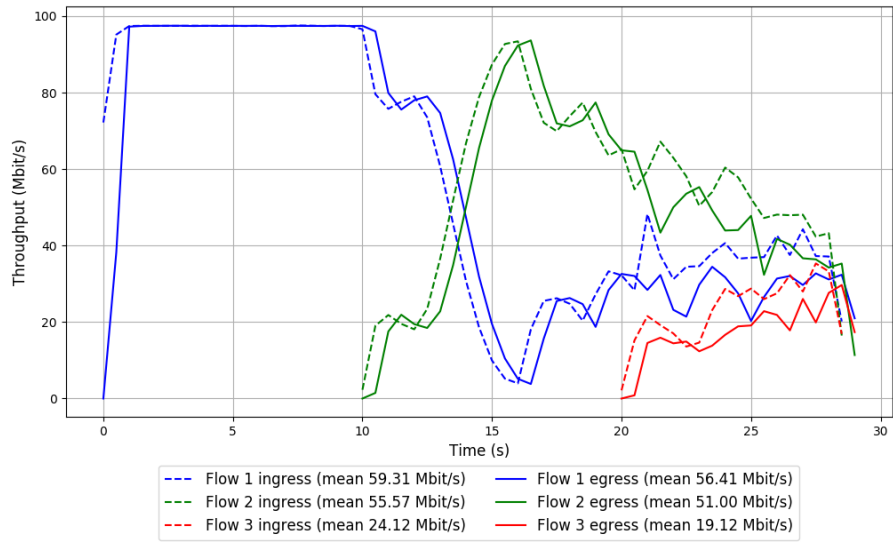
-- Flow 3:

Average throughput: 19.12 Mbit/s

95th percentile per-packet one-way delay: 67.762 ms

Loss rate: 20.82%

Run 5: Report of Indigo-MusesT — Data Link





Run 1: Statistics of LEDBAT

Start at: 2019-10-02 22:39:20  
End at: 2019-10-02 22:39:50  
Local clock offset: 1.435 ms  
Remote clock offset: -1.363 ms

# Below is generated by plot.py at 2019-10-03 01:13:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.81 Mbit/s  
95th percentile per-packet one-way delay: 65.622 ms  
Loss rate: 0.21%

-- Flow 1:

Average throughput: 41.25 Mbit/s  
95th percentile per-packet one-way delay: 63.866 ms  
Loss rate: 0.10%

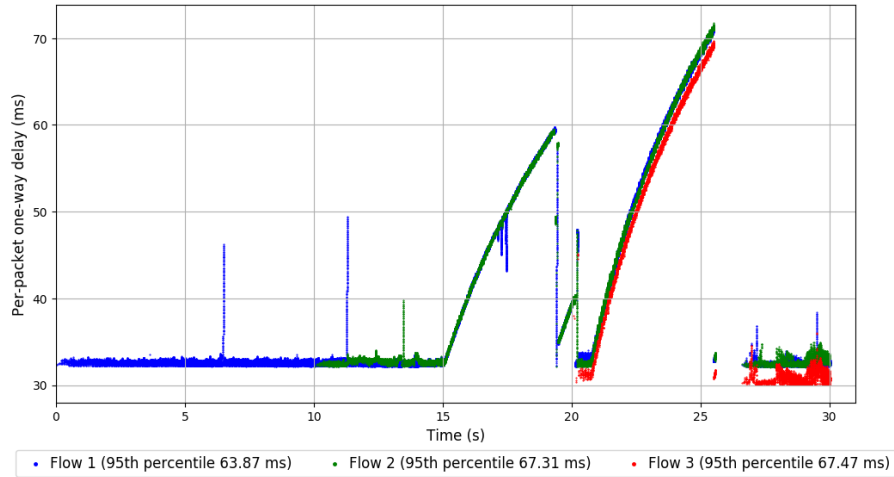
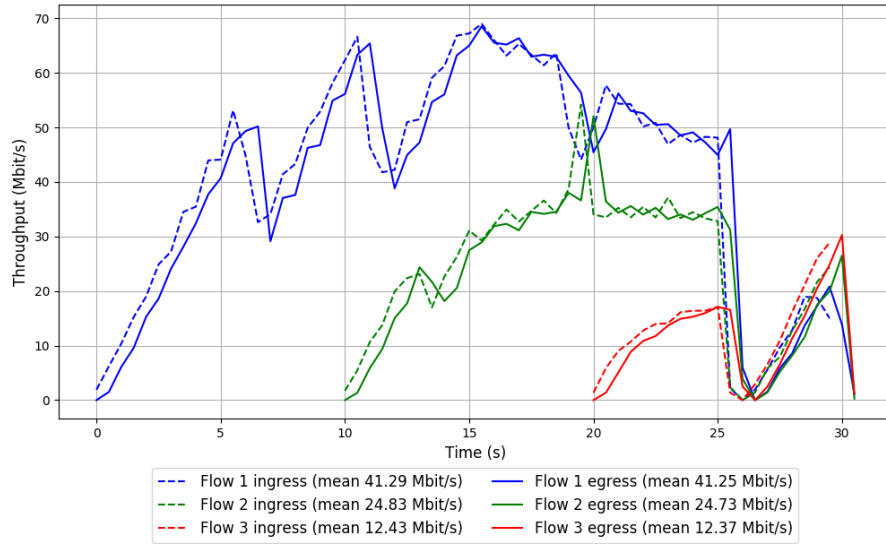
-- Flow 2:

Average throughput: 24.73 Mbit/s  
95th percentile per-packet one-way delay: 67.309 ms  
Loss rate: 0.39%

-- Flow 3:

Average throughput: 12.37 Mbit/s  
95th percentile per-packet one-way delay: 67.465 ms  
Loss rate: 0.49%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-02 23:08:30

End at: 2019-10-02 23:09:00

Local clock offset: 2.327 ms

Remote clock offset: 1.155 ms

# Below is generated by plot.py at 2019-10-03 01:13:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.39 Mbit/s

95th percentile per-packet one-way delay: 64.552 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 35.17 Mbit/s

95th percentile per-packet one-way delay: 56.383 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 66.828 ms

Loss rate: 0.35%

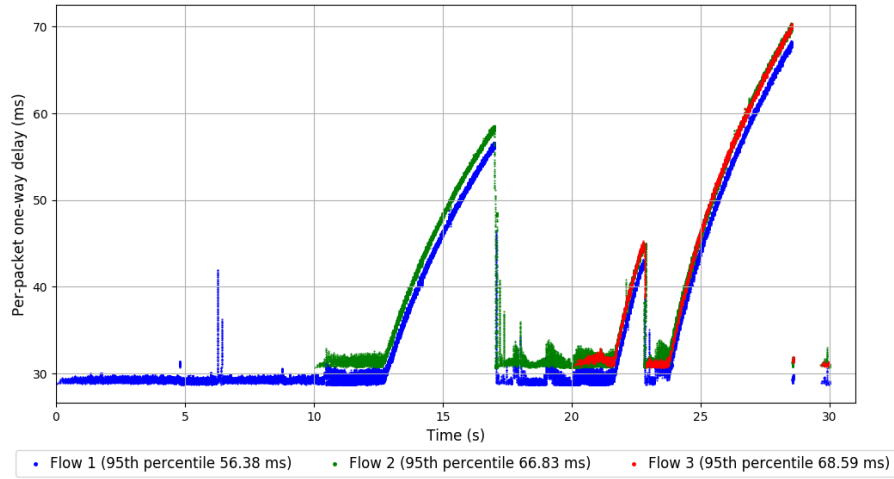
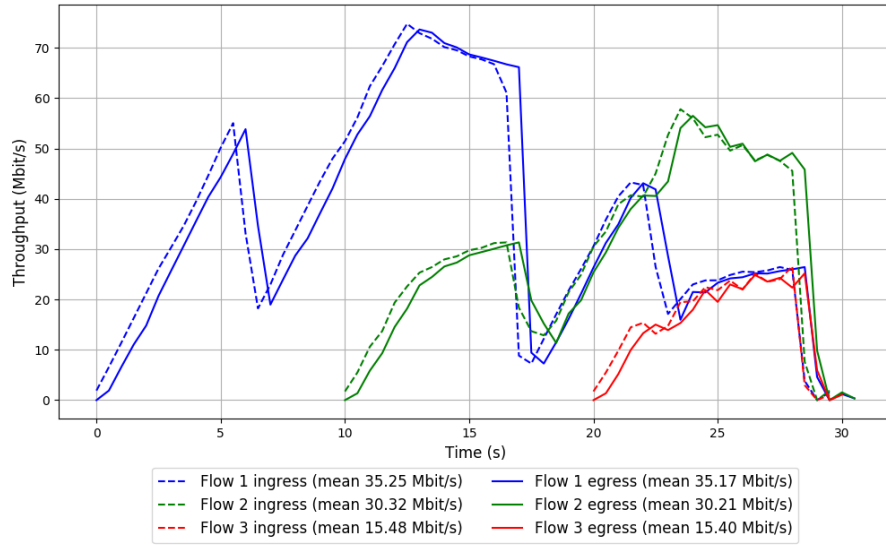
-- Flow 3:

Average throughput: 15.40 Mbit/s

95th percentile per-packet one-way delay: 68.588 ms

Loss rate: 0.51%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-02 23:37:58

End at: 2019-10-02 23:38:28

Local clock offset: 0.359 ms

Remote clock offset: 2.54 ms

# Below is generated by plot.py at 2019-10-03 01:13:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 70.127 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 40.73 Mbit/s

95th percentile per-packet one-way delay: 70.600 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 26.19 Mbit/s

95th percentile per-packet one-way delay: 70.080 ms

Loss rate: 0.09%

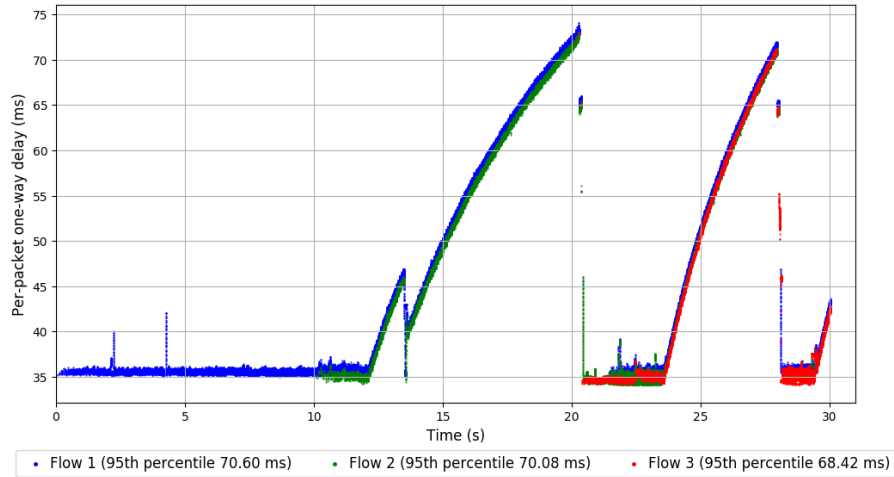
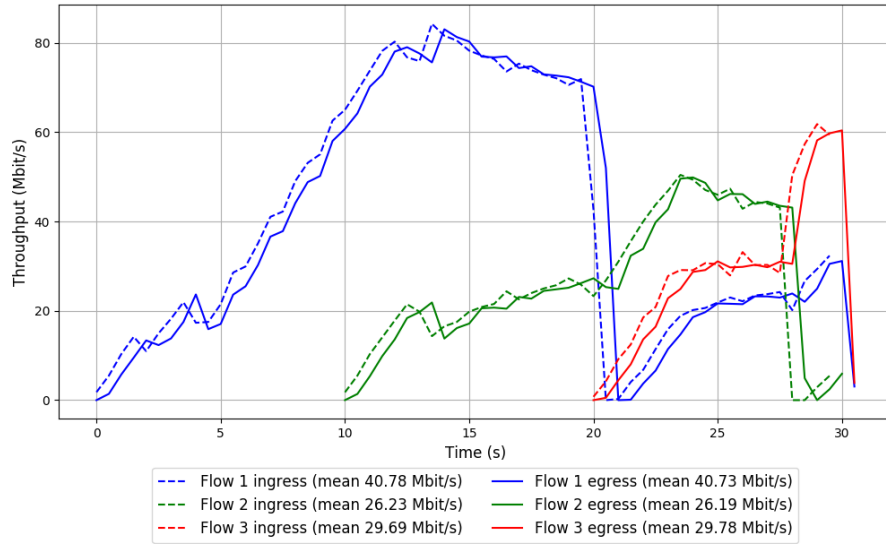
-- Flow 3:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 68.423 ms

Loss rate: 0.00%

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



Run 4: Statistics of LEDBAT

Start at: 2019-10-03 00:07:09

End at: 2019-10-03 00:07:39

Local clock offset: 1.518 ms

Remote clock offset: 2.929 ms

# Below is generated by plot.py at 2019-10-03 01:13:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 66.421 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 25.50 Mbit/s

95th percentile per-packet one-way delay: 66.650 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 66.147 ms

Loss rate: 0.33%

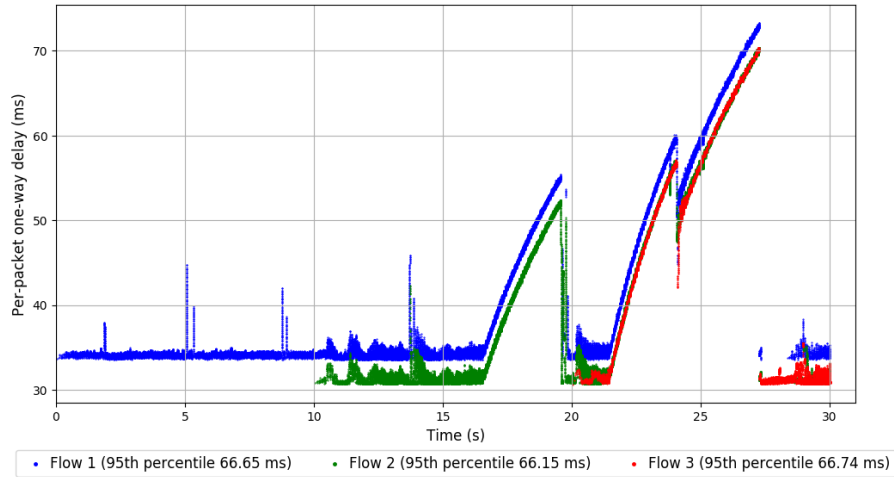
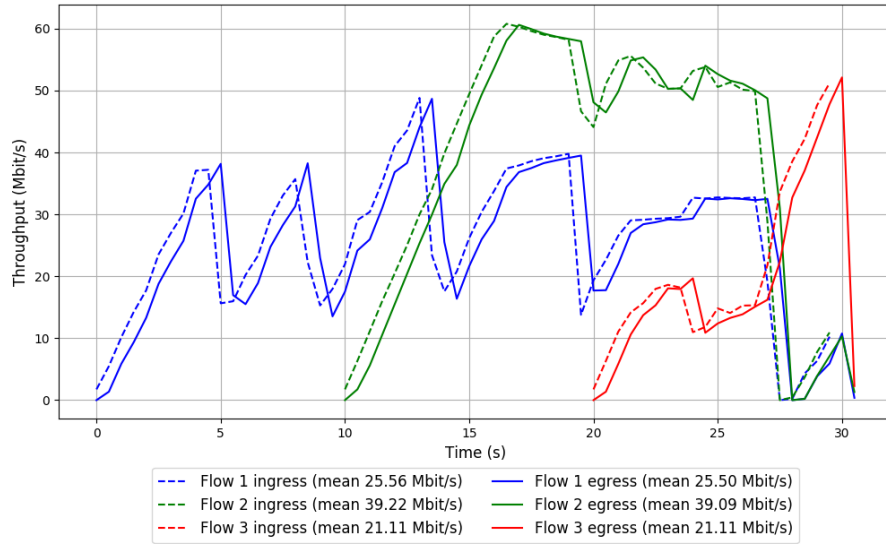
-- Flow 3:

Average throughput: 21.11 Mbit/s

95th percentile per-packet one-way delay: 66.739 ms

Loss rate: 0.01%

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





Run 5: Statistics of LEDBAT

Start at: 2019-10-03 00:36:29

End at: 2019-10-03 00:36:59

Local clock offset: 7.927 ms

Remote clock offset: 1.352 ms

# Below is generated by plot.py at 2019-10-03 01:13:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 50.583 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 26.25 Mbit/s

95th percentile per-packet one-way delay: 47.605 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 51.109 ms

Loss rate: 0.12%

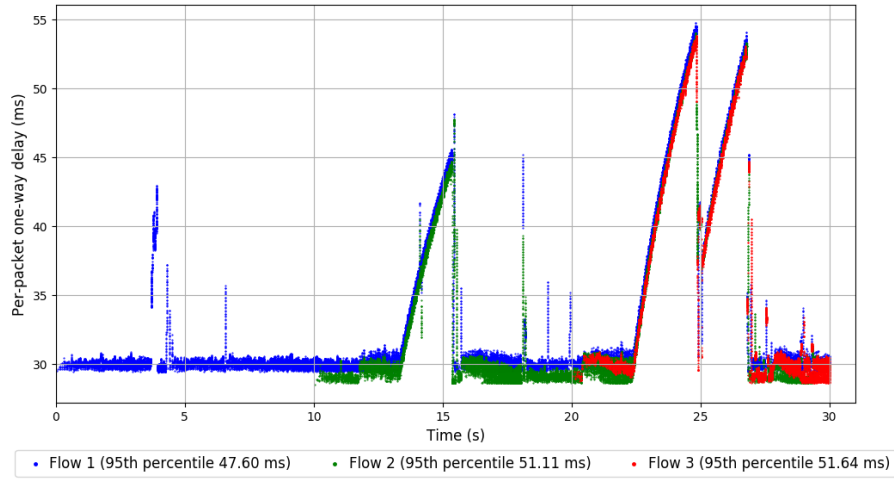
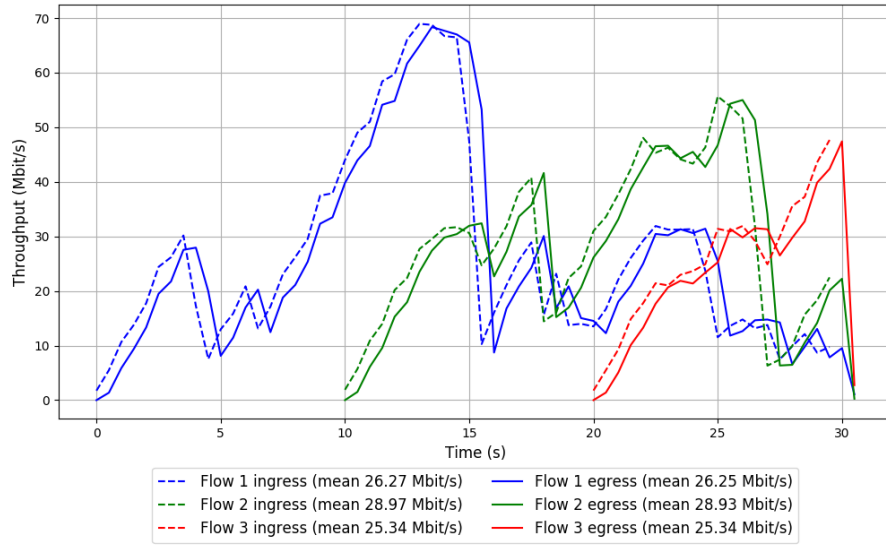
-- Flow 3:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 51.643 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 22:38:08

End at: 2019-10-02 22:38:38

Local clock offset: 3.541 ms

Remote clock offset: -1.96 ms

# Below is generated by plot.py at 2019-10-03 01:14:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 39.742 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 37.849 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 20.35 Mbit/s

95th percentile per-packet one-way delay: 49.543 ms

Loss rate: 1.03%

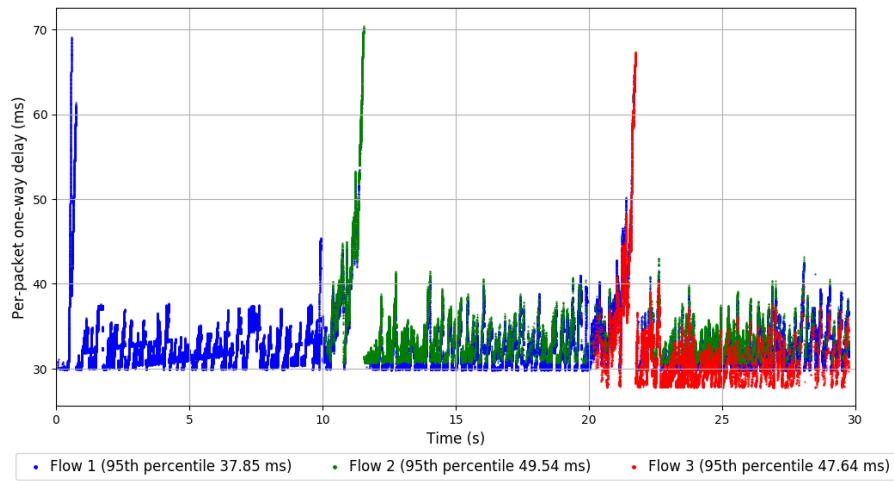
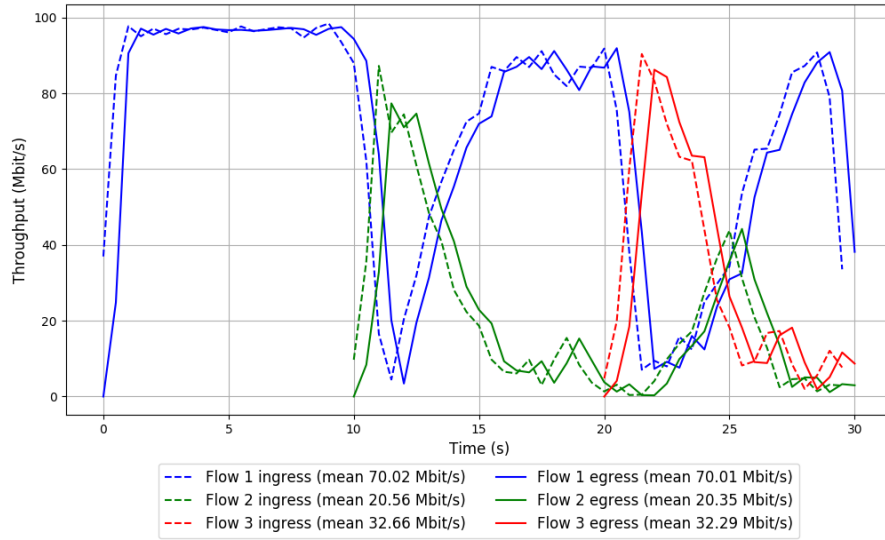
-- Flow 3:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 47.644 ms

Loss rate: 1.18%

Run 1: Report of Muses\_DecisionTree — Data Link



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 23:07:12

End at: 2019-10-02 23:07:42

Local clock offset: 1.949 ms

Remote clock offset: 1.081 ms

# Below is generated by plot.py at 2019-10-03 01:14:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 37.952 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 51.47 Mbit/s

95th percentile per-packet one-way delay: 35.807 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 37.671 ms

Loss rate: 0.02%

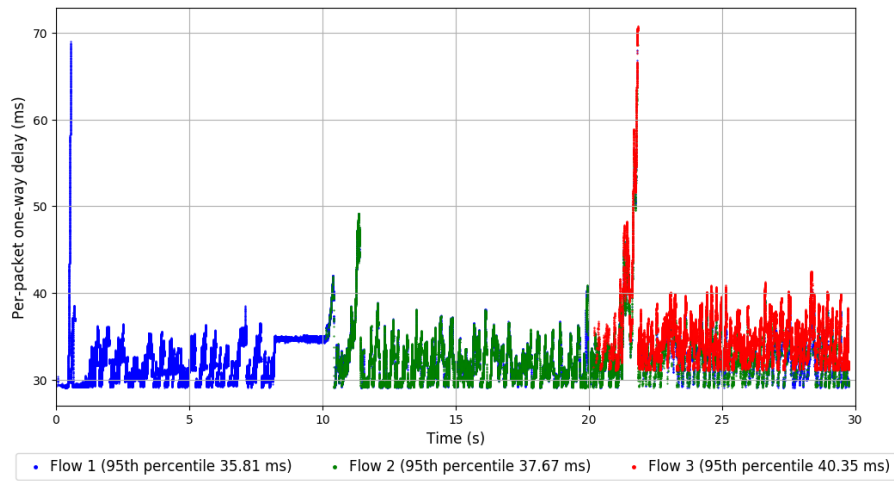
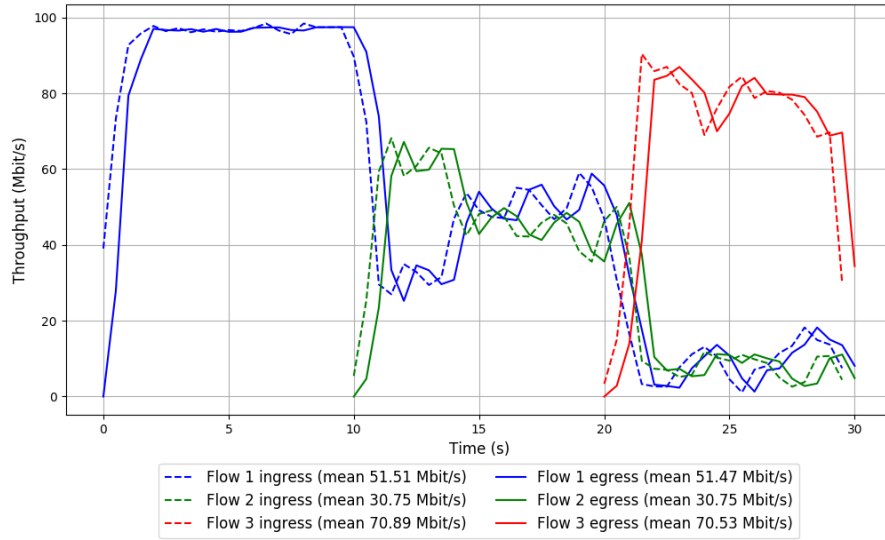
-- Flow 3:

Average throughput: 70.53 Mbit/s

95th percentile per-packet one-way delay: 40.346 ms

Loss rate: 0.51%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 23:36:44

End at: 2019-10-02 23:37:14

Local clock offset: -1.521 ms

Remote clock offset: 0.51 ms

# Below is generated by plot.py at 2019-10-03 01:14:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 42.491 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 40.683 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.63 Mbit/s

95th percentile per-packet one-way delay: 43.725 ms

Loss rate: 0.51%

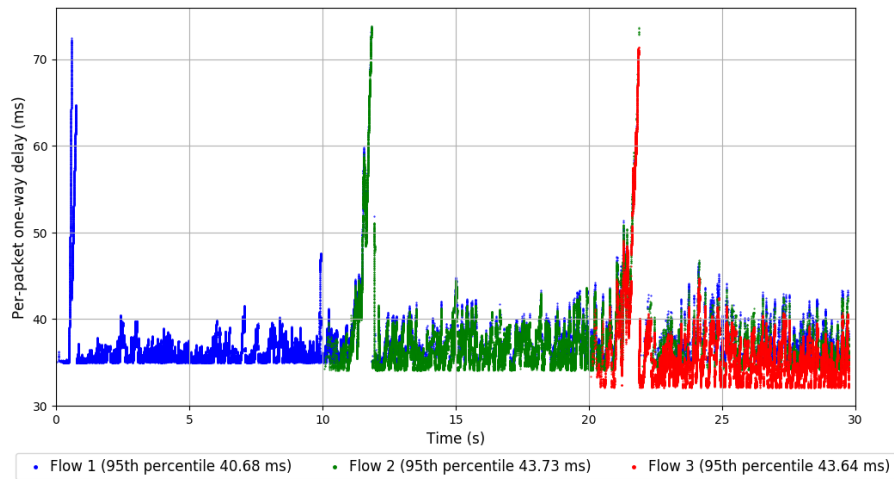
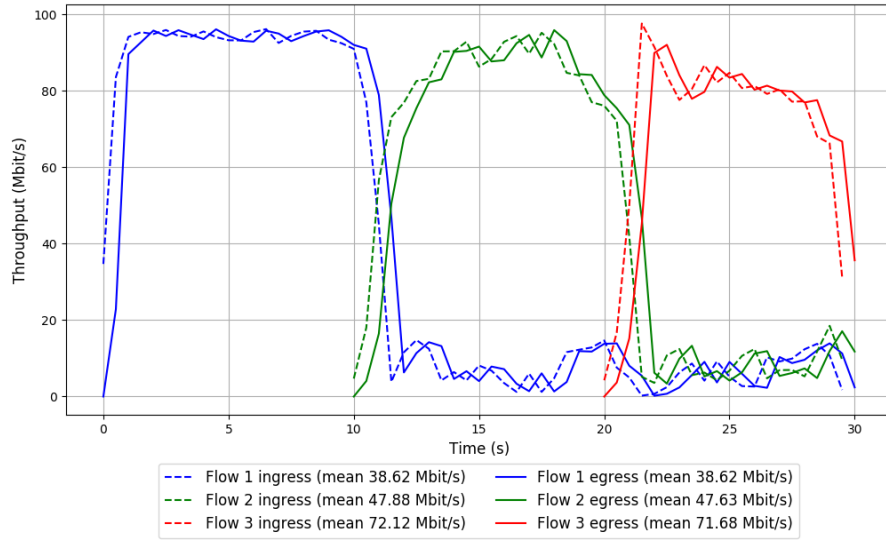
-- Flow 3:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: 43.638 ms

Loss rate: 0.61%

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





Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 00:05:53

End at: 2019-10-03 00:06:23

Local clock offset: 1.012 ms

Remote clock offset: 1.617 ms

# Below is generated by plot.py at 2019-10-03 01:14:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 39.351 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 38.796 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 16.75 Mbit/s

95th percentile per-packet one-way delay: 50.940 ms

Loss rate: 0.01%

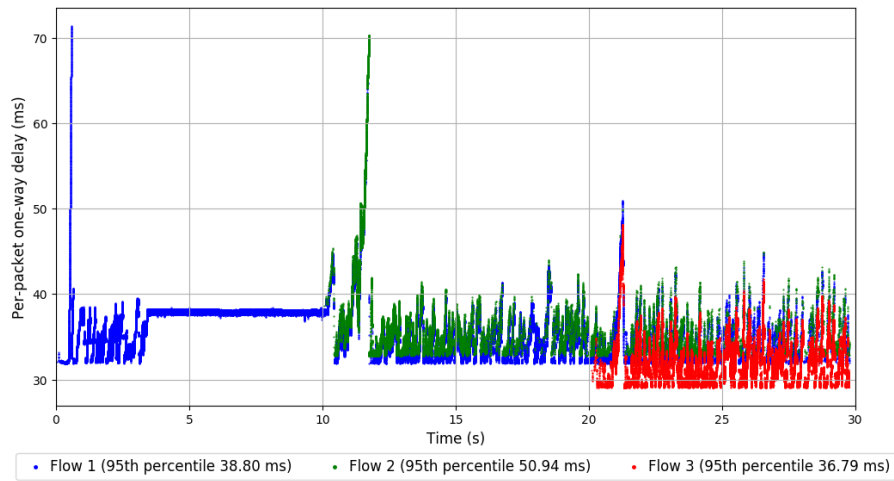
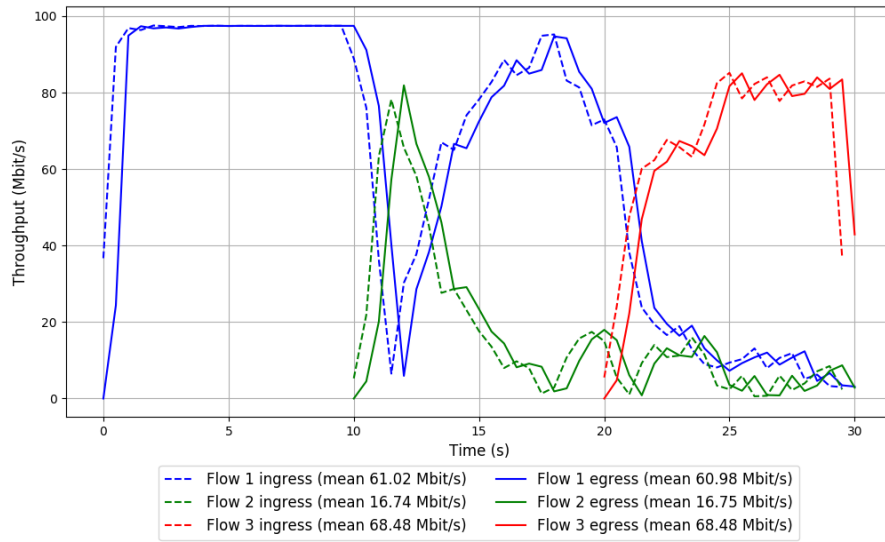
-- Flow 3:

Average throughput: 68.48 Mbit/s

95th percentile per-packet one-way delay: 36.793 ms

Loss rate: 0.01%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 00:35:14

End at: 2019-10-03 00:35:44

Local clock offset: 5.434 ms

Remote clock offset: 1.103 ms

# Below is generated by plot.py at 2019-10-03 01:14:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 47.492 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 46.594 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 54.899 ms

Loss rate: 0.01%

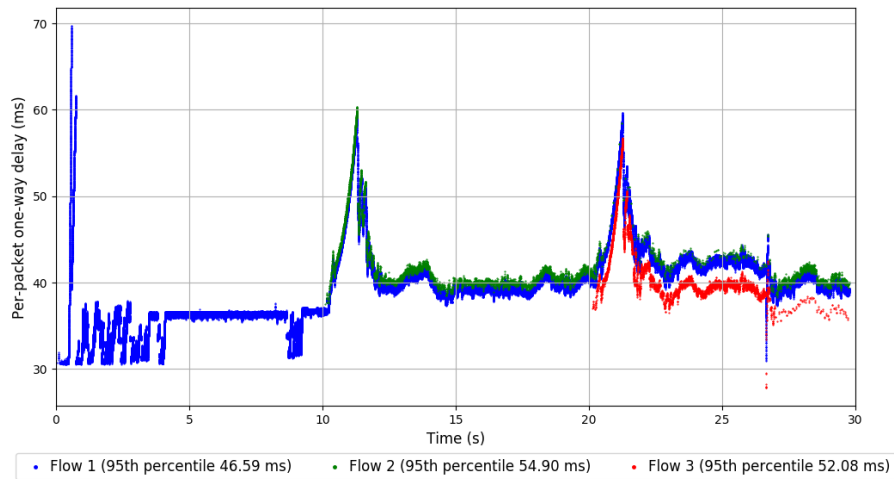
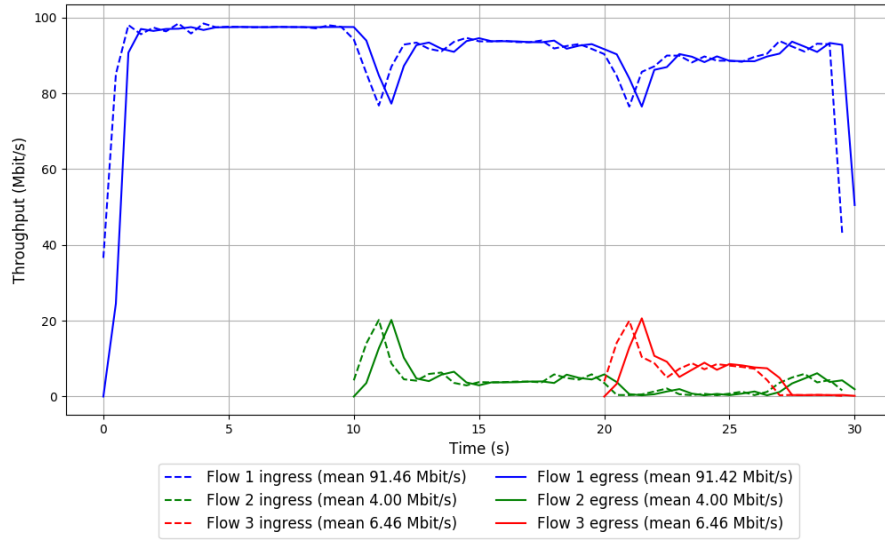
-- Flow 3:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 52.075 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 22:42:56  
End at: 2019-10-02 22:43:26  
Local clock offset: 2.547 ms  
Remote clock offset: -0.452 ms

# Below is generated by plot.py at 2019-10-03 01:14:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.80 Mbit/s  
95th percentile per-packet one-way delay: 52.371 ms  
Loss rate: 3.13%

-- Flow 1:

Average throughput: 58.62 Mbit/s  
95th percentile per-packet one-way delay: 49.171 ms  
Loss rate: 2.27%

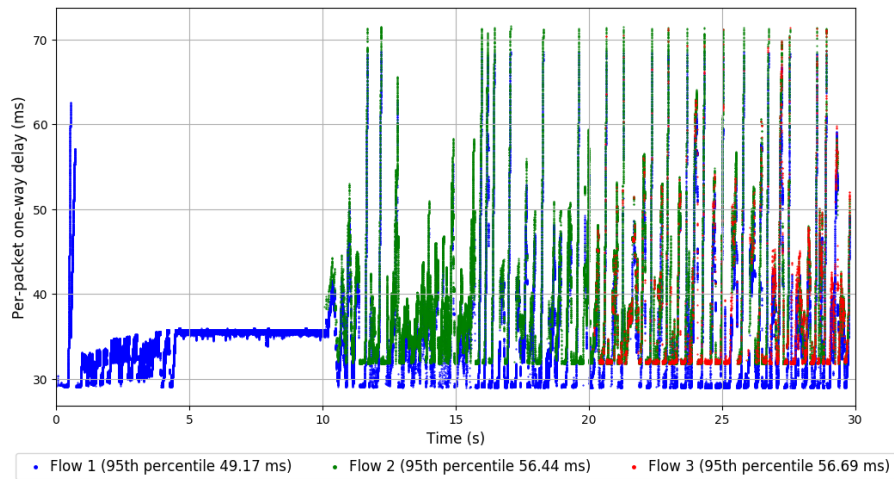
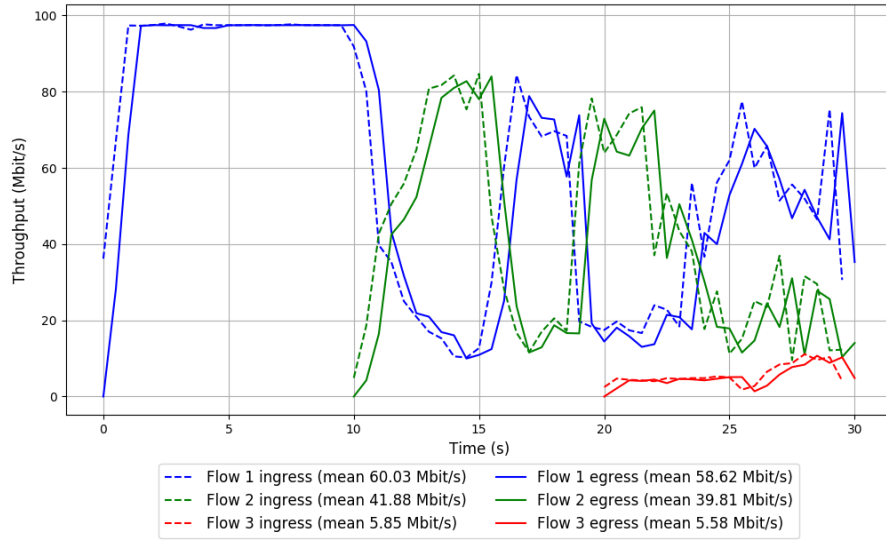
-- Flow 2:

Average throughput: 39.81 Mbit/s  
95th percentile per-packet one-way delay: 56.435 ms  
Loss rate: 4.89%

-- Flow 3:

Average throughput: 5.58 Mbit/s  
95th percentile per-packet one-way delay: 56.685 ms  
Loss rate: 4.58%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 23:12:15

End at: 2019-10-02 23:12:45

Local clock offset: 2.918 ms

Remote clock offset: 0.907 ms

# Below is generated by plot.py at 2019-10-03 01:14:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 51.744 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 65.09 Mbit/s

95th percentile per-packet one-way delay: 48.560 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 57.420 ms

Loss rate: 2.93%

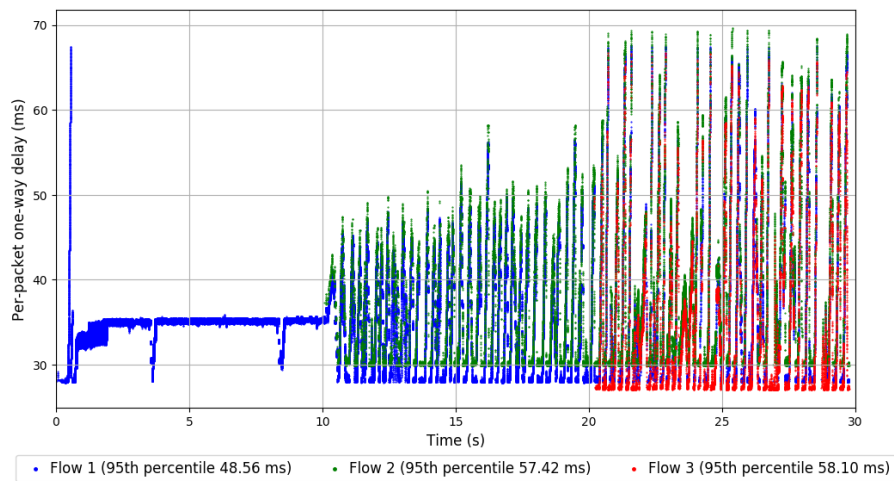
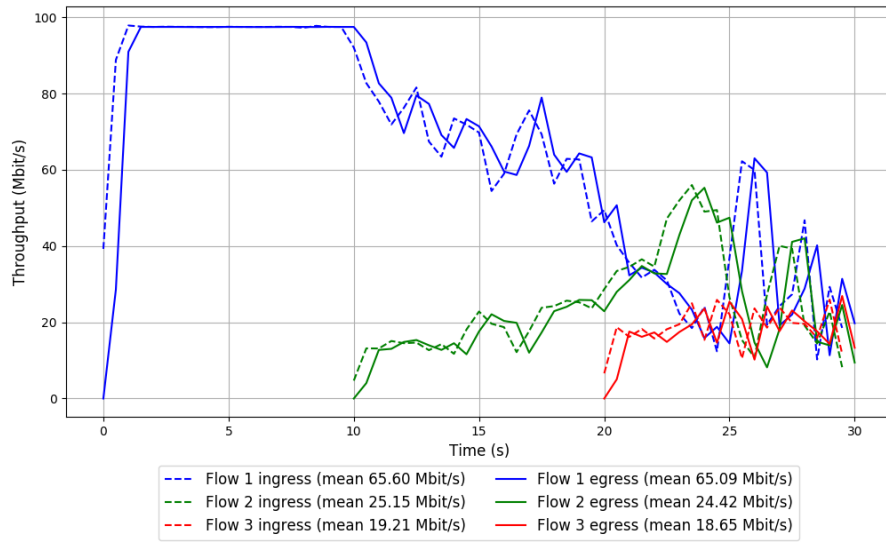
-- Flow 3:

Average throughput: 18.65 Mbit/s

95th percentile per-packet one-way delay: 58.105 ms

Loss rate: 3.03%

## Run 2: Report of Muses\_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 23:41:35  
End at: 2019-10-02 23:42:05  
Local clock offset: 0.52 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-10-03 01:14:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.36 Mbit/s  
95th percentile per-packet one-way delay: 55.985 ms  
Loss rate: 3.66%

-- Flow 1:

Average throughput: 63.13 Mbit/s  
95th percentile per-packet one-way delay: 52.139 ms  
Loss rate: 2.29%

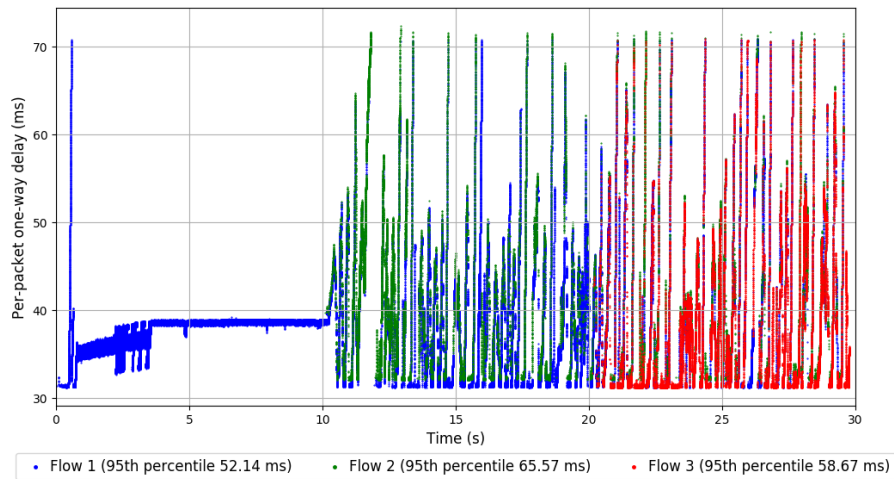
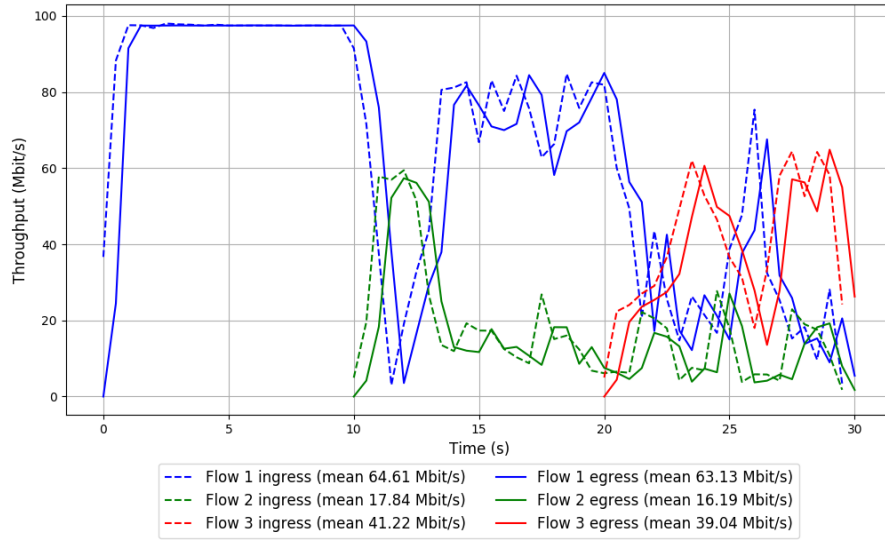
-- Flow 2:

Average throughput: 16.19 Mbit/s  
95th percentile per-packet one-way delay: 65.569 ms  
Loss rate: 9.31%

-- Flow 3:

Average throughput: 39.04 Mbit/s  
95th percentile per-packet one-way delay: 58.668 ms  
Loss rate: 5.29%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 00:10:51

End at: 2019-10-03 00:11:21

Local clock offset: 4.195 ms

Remote clock offset: 3.187 ms

# Below is generated by plot.py at 2019-10-03 01:15:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.58 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 2.13%

-- Flow 1:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 54.624 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 54.283 ms

Loss rate: 3.08%

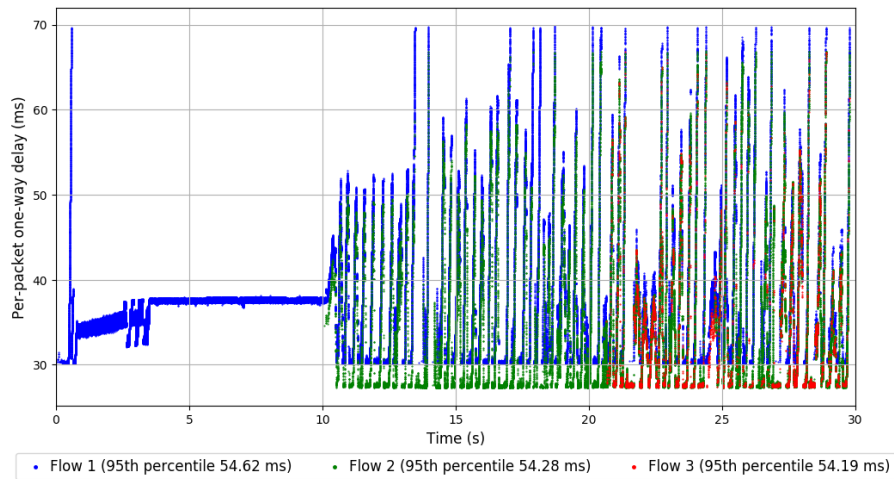
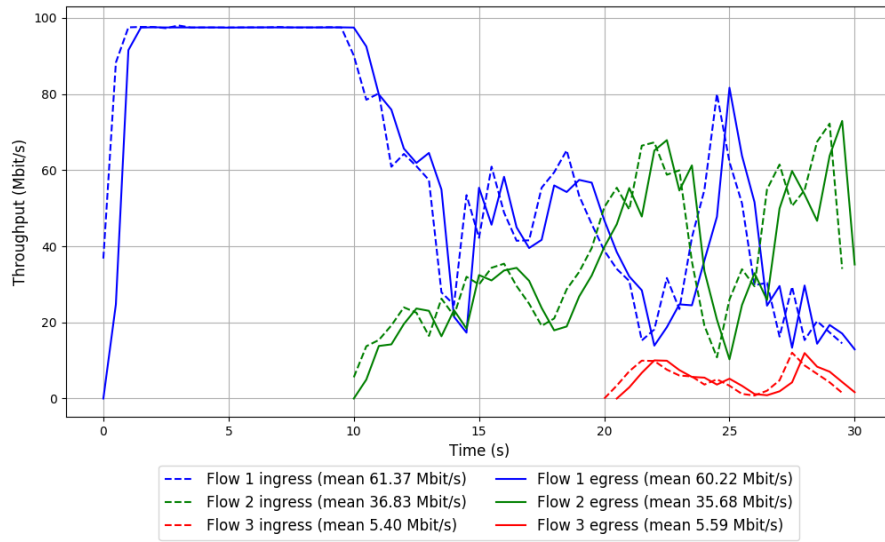
-- Flow 3:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 1.56%

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



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 00:40:10

End at: 2019-10-03 00:40:40

Local clock offset: 8.101 ms

Remote clock offset: 2.685 ms

# Below is generated by plot.py at 2019-10-03 01:15:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 53.648 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 58.16 Mbit/s

95th percentile per-packet one-way delay: 51.703 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 56.532 ms

Loss rate: 1.47%

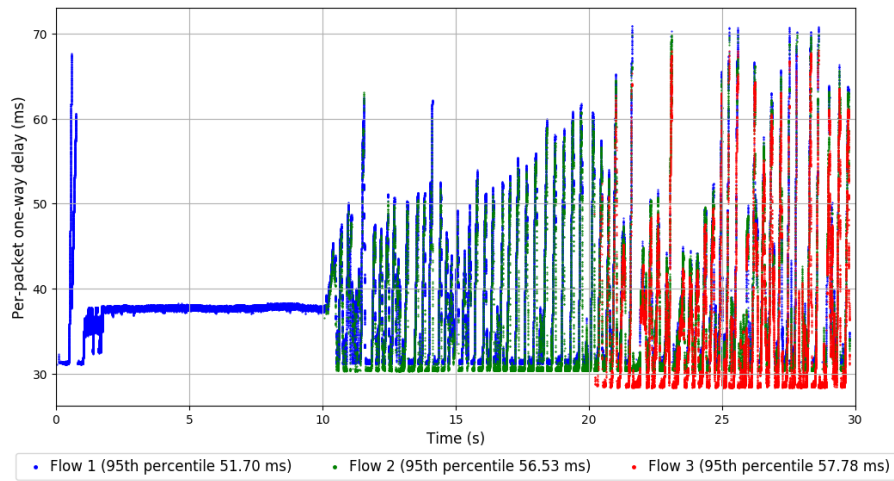
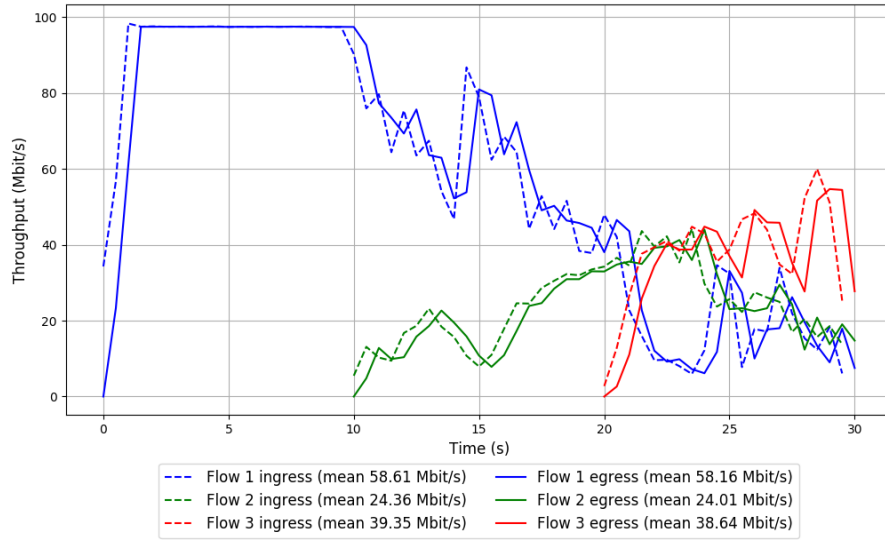
-- Flow 3:

Average throughput: 38.64 Mbit/s

95th percentile per-packet one-way delay: 57.776 ms

Loss rate: 1.95%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 22:44:08  
End at: 2019-10-02 22:44:38  
Local clock offset: 0.5 ms  
Remote clock offset: -1.375 ms

# Below is generated by plot.py at 2019-10-03 01:15:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.22 Mbit/s  
95th percentile per-packet one-way delay: 49.117 ms  
Loss rate: 0.05%

-- Flow 1:

Average throughput: 90.18 Mbit/s  
95th percentile per-packet one-way delay: 48.390 ms  
Loss rate: 0.05%

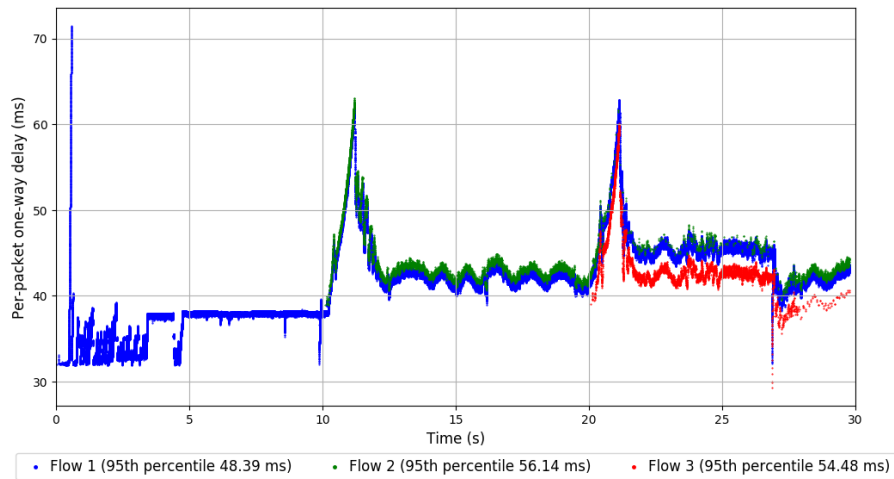
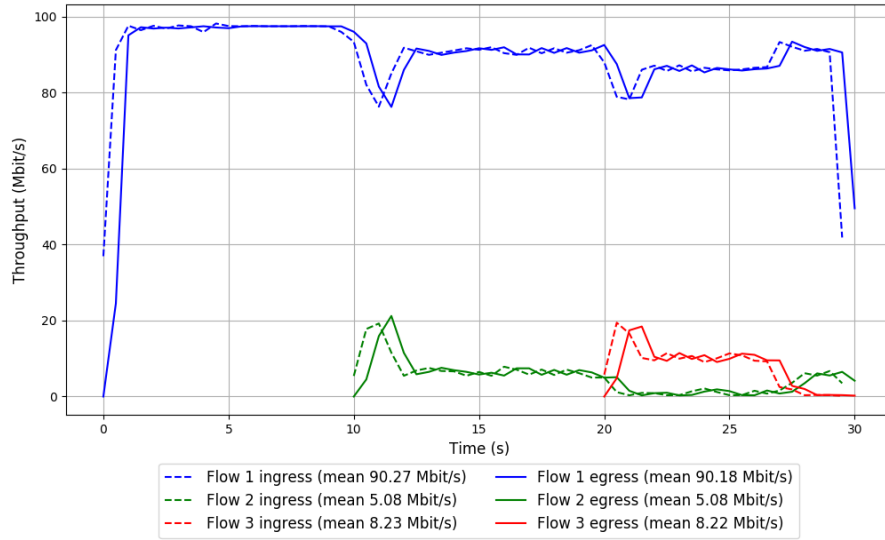
-- Flow 2:

Average throughput: 5.08 Mbit/s  
95th percentile per-packet one-way delay: 56.141 ms  
Loss rate: 0.06%

-- Flow 3:

Average throughput: 8.22 Mbit/s  
95th percentile per-packet one-way delay: 54.483 ms  
Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 23:13:29  
End at: 2019-10-02 23:13:59  
Local clock offset: -0.24 ms  
Remote clock offset: -0.314 ms

# Below is generated by plot.py at 2019-10-03 01:15:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.54 Mbit/s  
95th percentile per-packet one-way delay: 38.441 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 56.33 Mbit/s  
95th percentile per-packet one-way delay: 37.441 ms  
Loss rate: 0.02%

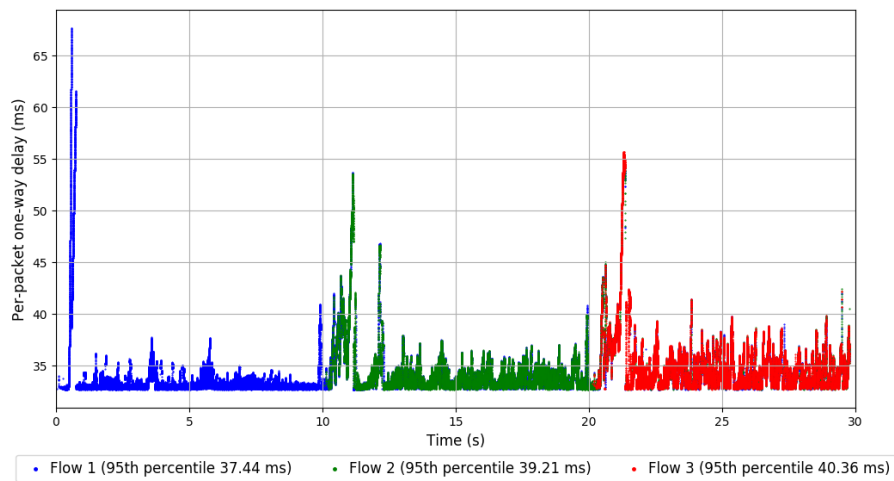
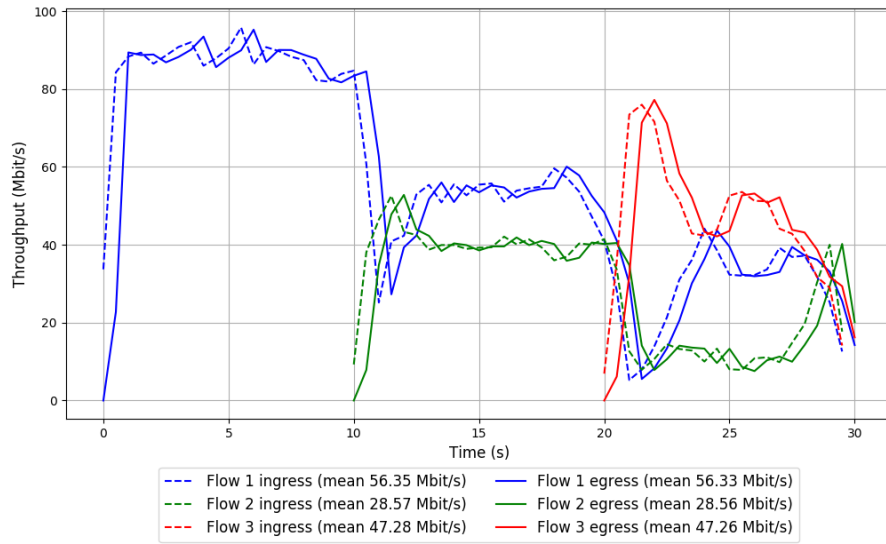
-- Flow 2:

Average throughput: 28.56 Mbit/s  
95th percentile per-packet one-way delay: 39.214 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 47.26 Mbit/s  
95th percentile per-packet one-way delay: 40.364 ms  
Loss rate: 0.00%

## Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 23:42:48

End at: 2019-10-02 23:43:18

Local clock offset: 3.178 ms

Remote clock offset: 0.34 ms

# Below is generated by plot.py at 2019-10-03 01:15:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 33.746 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 66.21 Mbit/s

95th percentile per-packet one-way delay: 31.763 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 37.509 ms

Loss rate: 0.02%

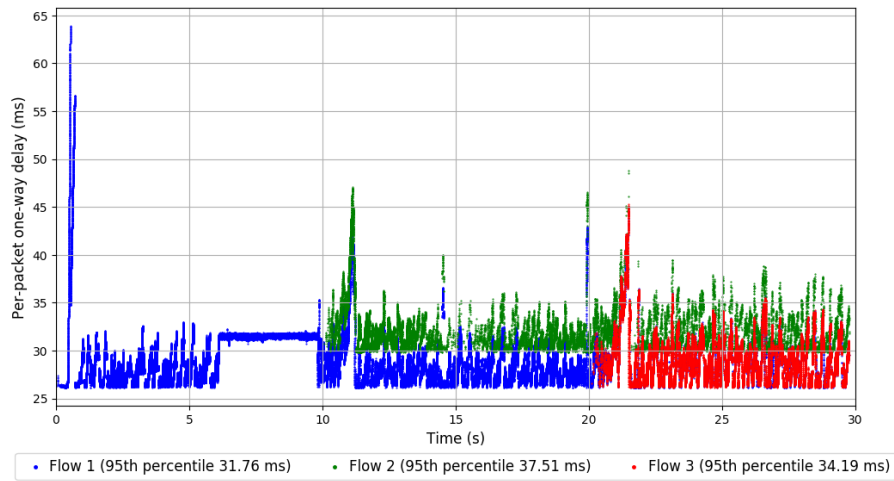
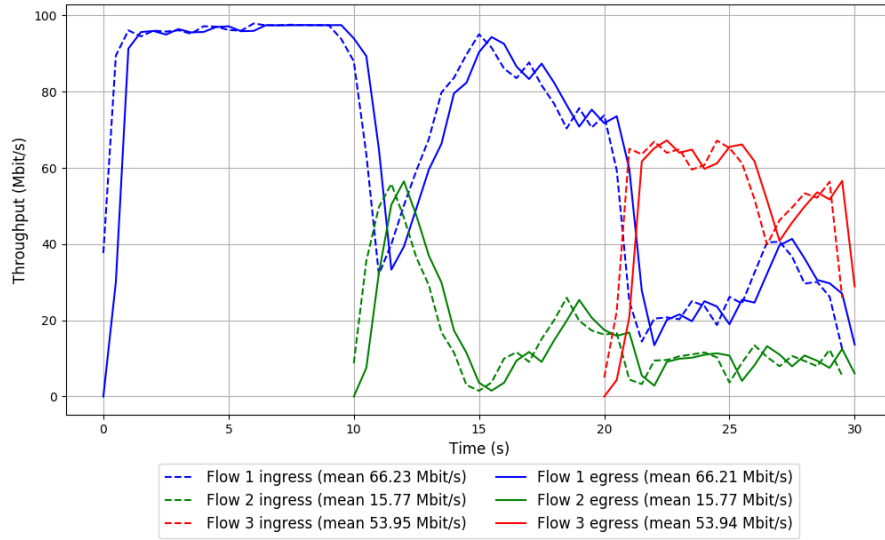
-- Flow 3:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 34.188 ms

Loss rate: 0.00%

### Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 00:12:05

End at: 2019-10-03 00:12:35

Local clock offset: -1.121 ms

Remote clock offset: 1.533 ms

# Below is generated by plot.py at 2019-10-03 01:15:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 43.475 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 60.58 Mbit/s

95th percentile per-packet one-way delay: 41.419 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 17.35 Mbit/s

95th percentile per-packet one-way delay: 52.711 ms

Loss rate: 0.01%

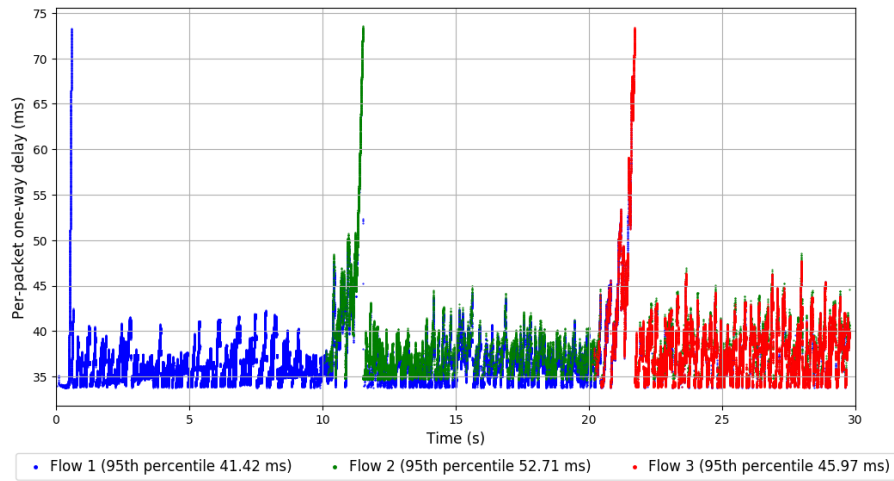
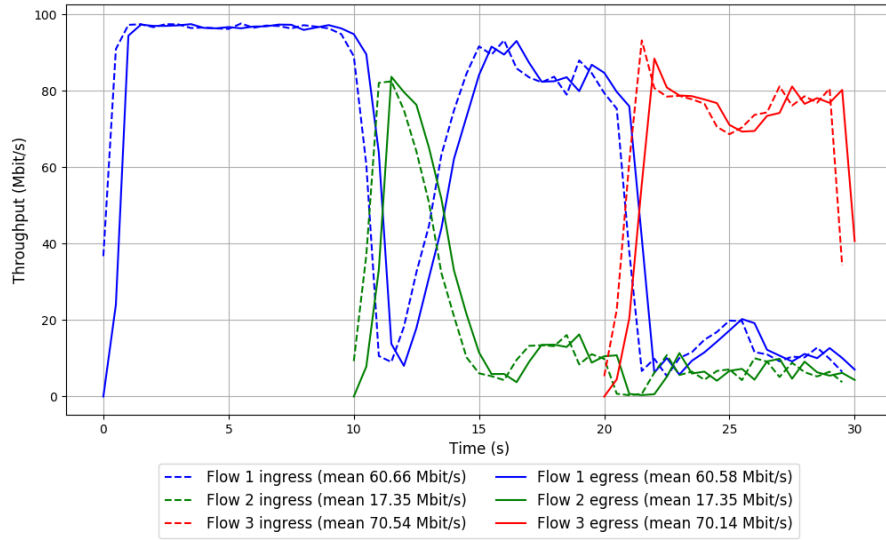
-- Flow 3:

Average throughput: 70.14 Mbit/s

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

Loss rate: 0.54%

### Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 00:41:23

End at: 2019-10-03 00:41:53

Local clock offset: 3.792 ms

Remote clock offset: 2.511 ms

# Below is generated by plot.py at 2019-10-03 01:15:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 42.000 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 39.854 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 41.241 ms

Loss rate: 0.00%

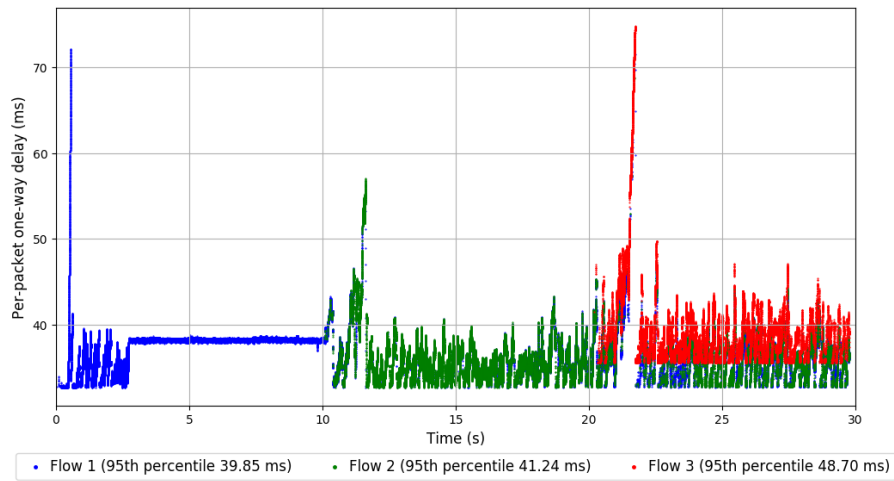
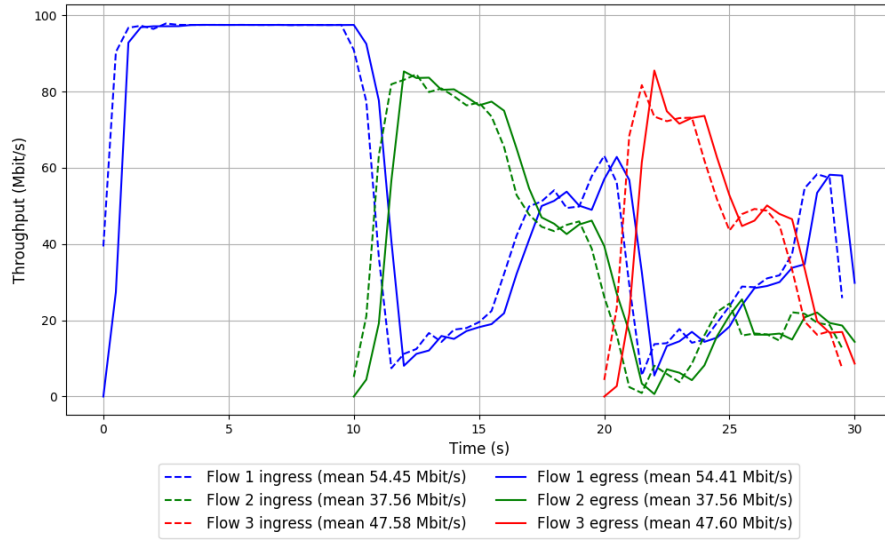
-- Flow 3:

Average throughput: 47.60 Mbit/s

95th percentile per-packet one-way delay: 48.701 ms

Loss rate: 0.01%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2019-10-02 22:52:39  
End at: 2019-10-02 22:53:09  
Local clock offset: -2.453 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-10-03 01:15:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.23 Mbit/s  
95th percentile per-packet one-way delay: 69.304 ms  
Loss rate: 4.89%

-- Flow 1:

Average throughput: 74.04 Mbit/s  
95th percentile per-packet one-way delay: 68.737 ms  
Loss rate: 4.46%

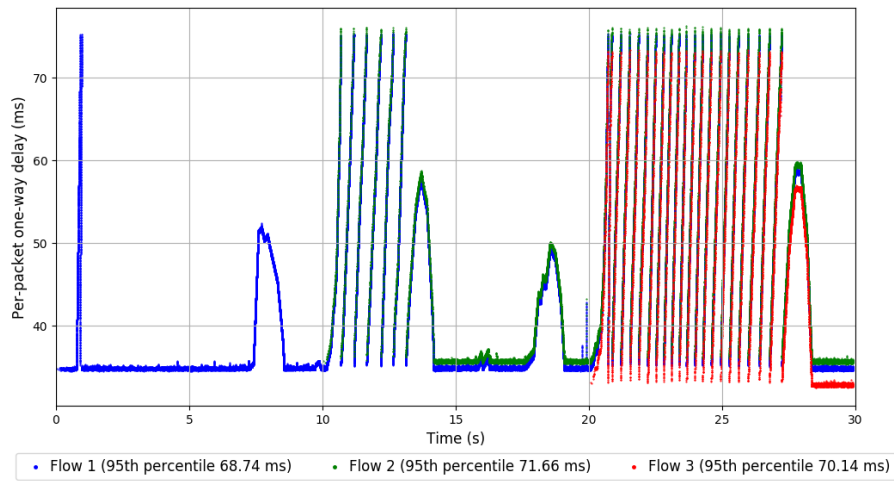
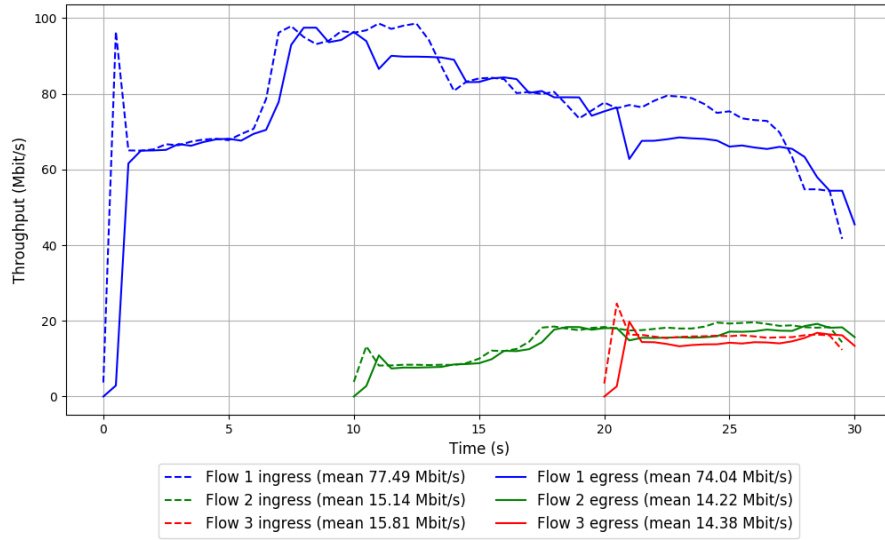
-- Flow 2:

Average throughput: 14.22 Mbit/s  
95th percentile per-packet one-way delay: 71.658 ms  
Loss rate: 6.07%

-- Flow 3:

Average throughput: 14.38 Mbit/s  
95th percentile per-packet one-way delay: 70.136 ms  
Loss rate: 9.02%

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



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-02 23:22:18

End at: 2019-10-02 23:22:48

Local clock offset: 2.182 ms

Remote clock offset: -0.758 ms

# Below is generated by plot.py at 2019-10-03 01:16:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.19 Mbit/s

95th percentile per-packet one-way delay: 64.913 ms

Loss rate: 10.26%

-- Flow 1:

Average throughput: 82.86 Mbit/s

95th percentile per-packet one-way delay: 64.344 ms

Loss rate: 9.81%

-- Flow 2:

Average throughput: 13.71 Mbit/s

95th percentile per-packet one-way delay: 68.263 ms

Loss rate: 13.90%

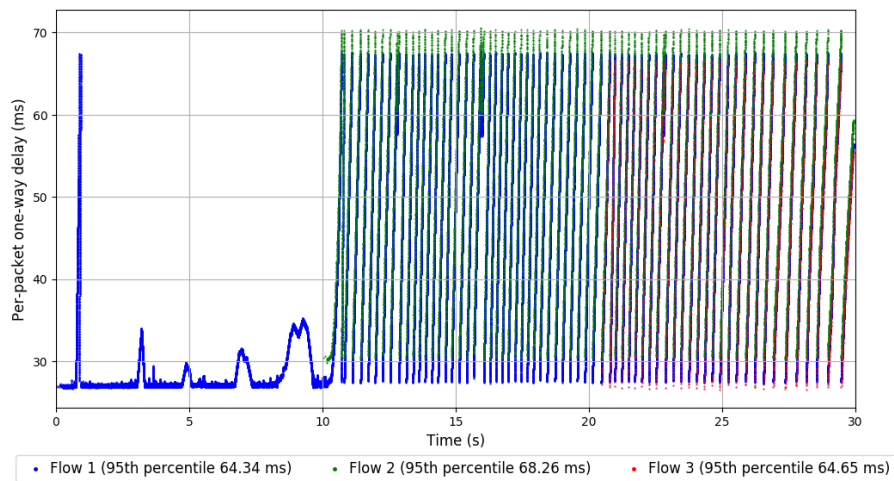
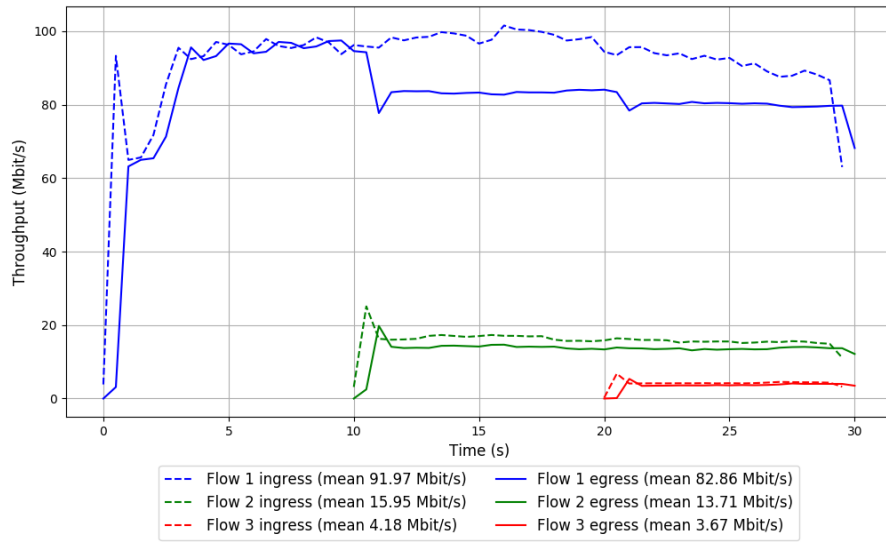
-- Flow 3:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 64.654 ms

Loss rate: 12.24%

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



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-02 23:51:29

End at: 2019-10-02 23:51:59

Local clock offset: -1.427 ms

Remote clock offset: 2.933 ms

# Below is generated by plot.py at 2019-10-03 01:16:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 61.757 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 83.27 Mbit/s

95th percentile per-packet one-way delay: 60.930 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 9.86 Mbit/s

95th percentile per-packet one-way delay: 65.111 ms

Loss rate: 1.07%

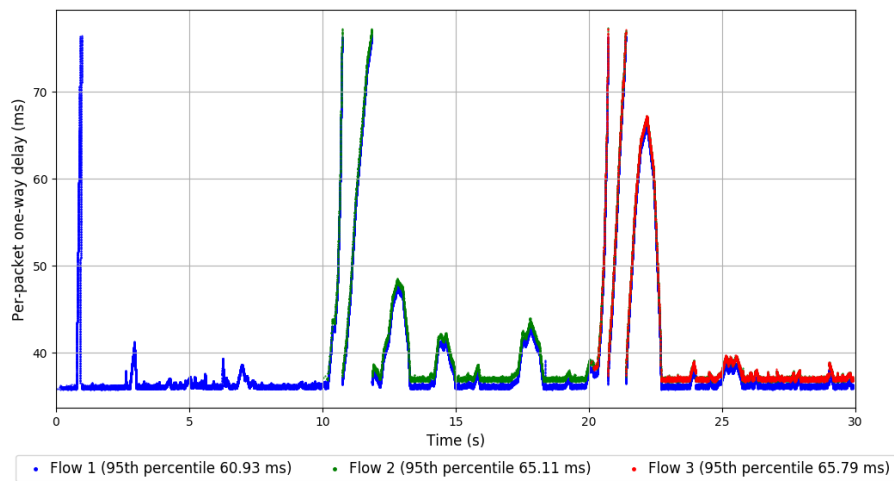
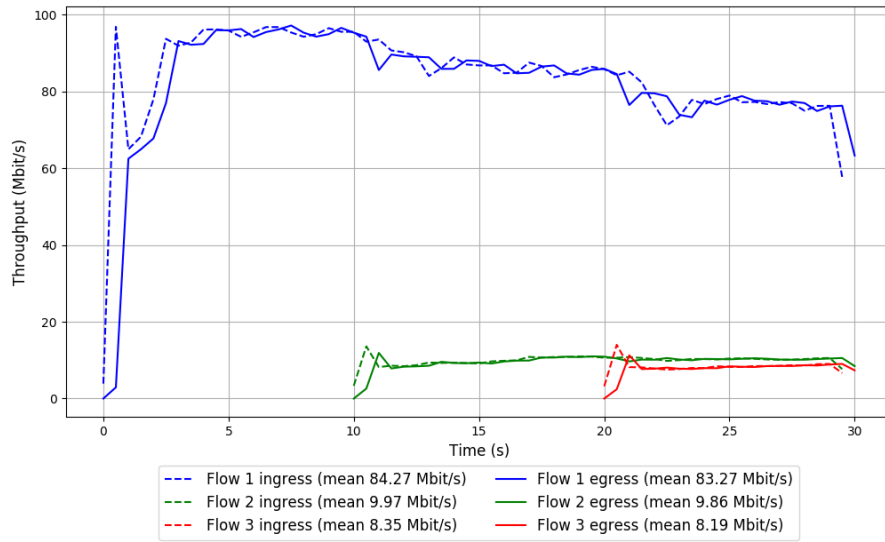
-- Flow 3:

Average throughput: 8.19 Mbit/s

95th percentile per-packet one-way delay: 65.794 ms

Loss rate: 2.00%

### Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 00:20:42

End at: 2019-10-03 00:21:12

Local clock offset: -1.079 ms

Remote clock offset: 2.591 ms

# Below is generated by plot.py at 2019-10-03 01:16:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 63.906 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 64.205 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 14.30 Mbit/s

95th percentile per-packet one-way delay: 62.945 ms

Loss rate: 0.64%

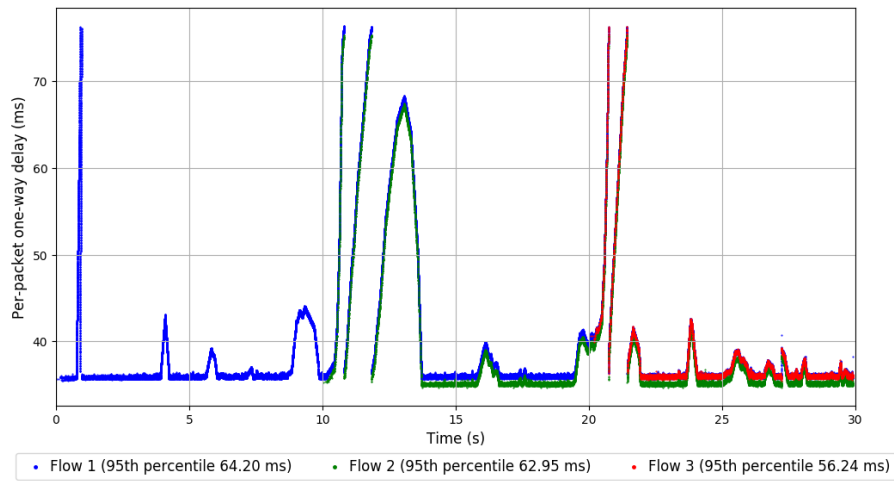
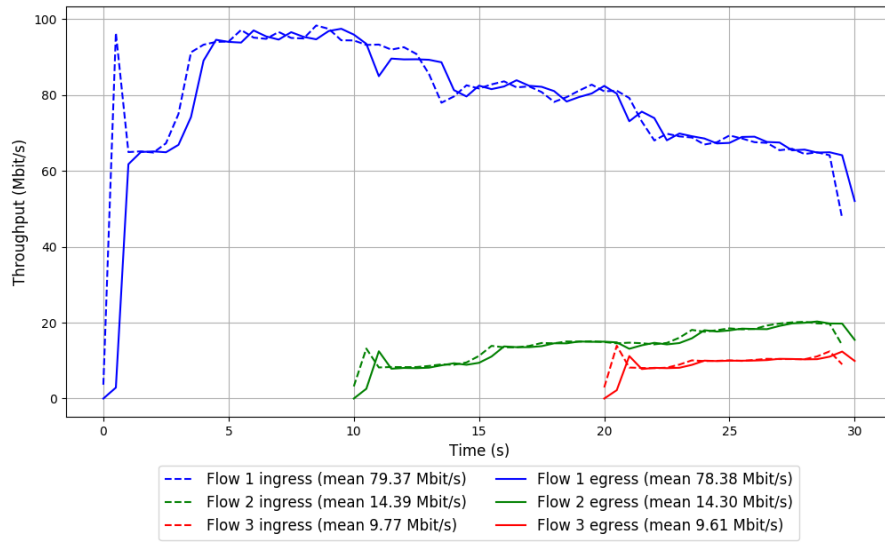
-- Flow 3:

Average throughput: 9.61 Mbit/s

95th percentile per-packet one-way delay: 56.241 ms

Loss rate: 1.69%

### Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 00:49:48

End at: 2019-10-03 00:50:18

Local clock offset: 6.736 ms

Remote clock offset: 2.606 ms

# Below is generated by plot.py at 2019-10-03 01:16:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 65.152 ms

Loss rate: 3.20%

-- Flow 1:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 65.460 ms

Loss rate: 3.22%

-- Flow 2:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 64.304 ms

Loss rate: 3.32%

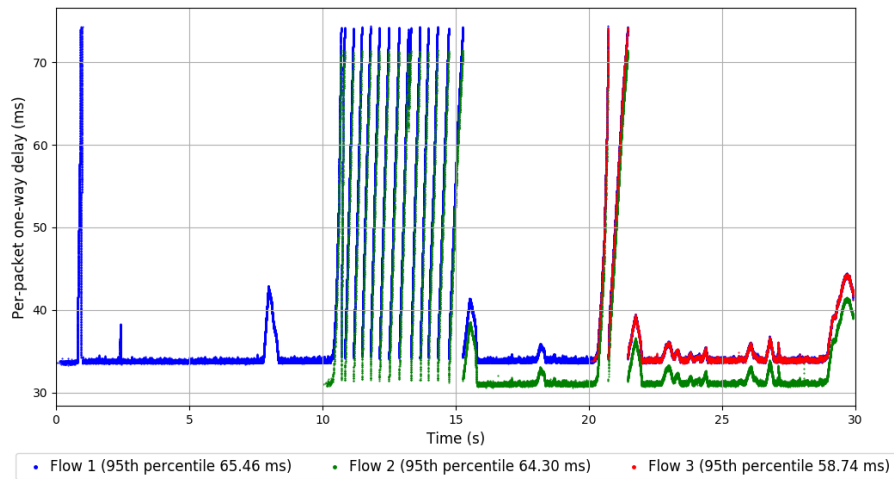
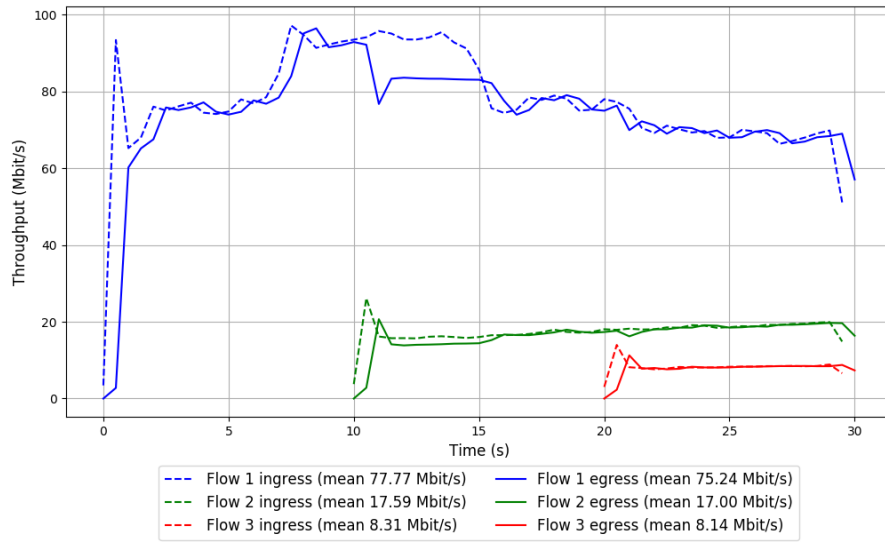
-- Flow 3:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 58.741 ms

Loss rate: 2.01%

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



Run 1: Statistics of PCC-Expr

Start at: 2019-10-02 23:01:13

End at: 2019-10-02 23:01:43

Local clock offset: 1.489 ms

Remote clock offset: 1.586 ms

# Below is generated by plot.py at 2019-10-03 01:16:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 33.435 ms

Loss rate: 47.46%

-- Flow 1:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 33.437 ms

Loss rate: 53.76%

-- Flow 2:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 33.486 ms

Loss rate: 32.31%

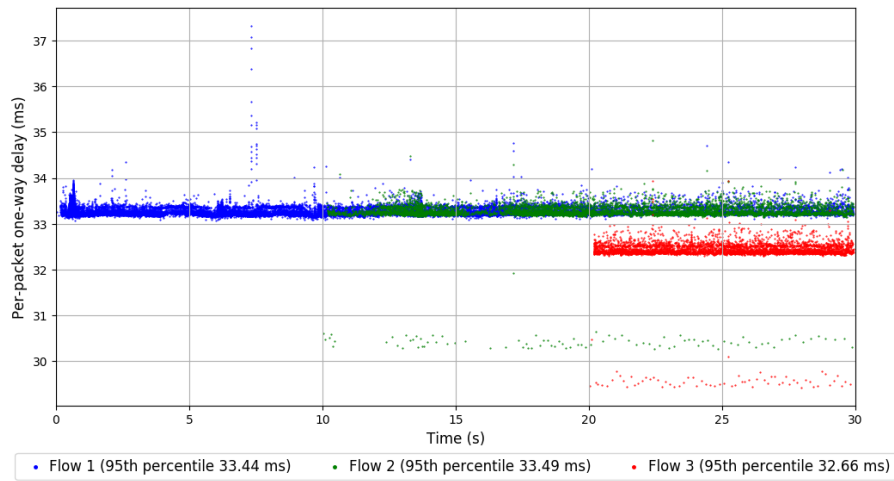
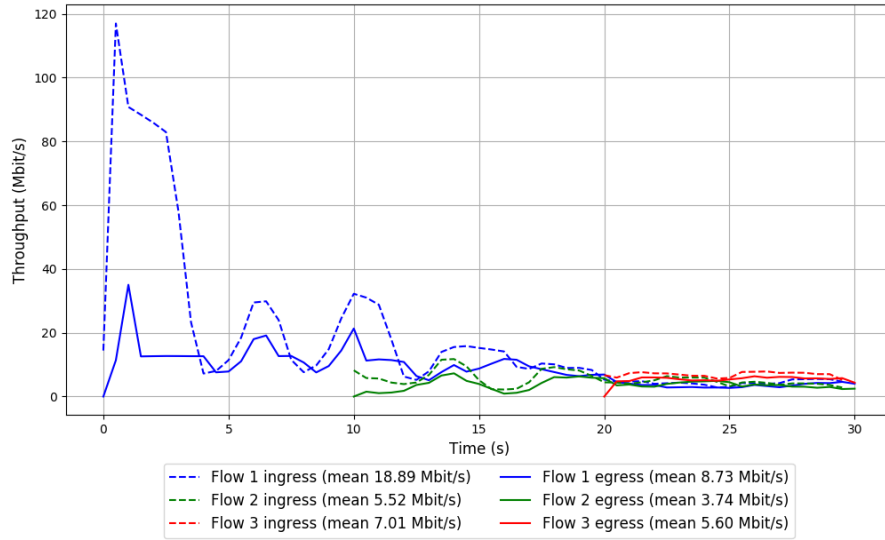
-- Flow 3:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 32.663 ms

Loss rate: 20.08%

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



Run 2: Statistics of PCC-Expr

Start at: 2019-10-02 23:30:50  
End at: 2019-10-02 23:31:20  
Local clock offset: 0.123 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-10-03 01:16:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.07 Mbit/s  
95th percentile per-packet one-way delay: 32.237 ms  
Loss rate: 47.80%

-- Flow 1:

Average throughput: 8.75 Mbit/s  
95th percentile per-packet one-way delay: 32.221 ms  
Loss rate: 52.06%

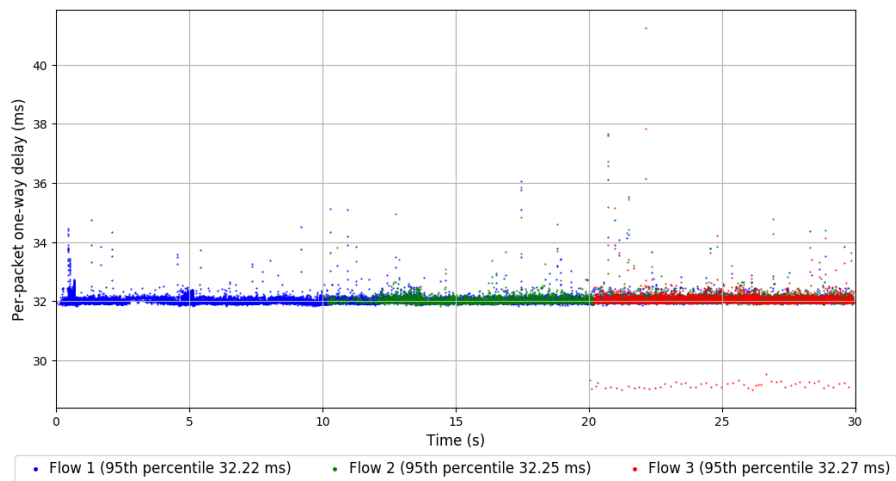
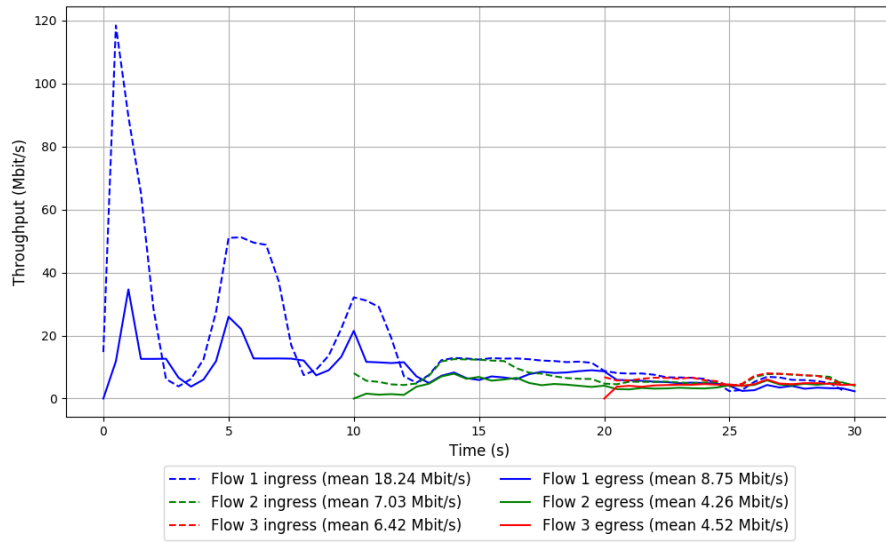
-- Flow 2:

Average throughput: 4.26 Mbit/s  
95th percentile per-packet one-way delay: 32.251 ms  
Loss rate: 39.50%

-- Flow 3:

Average throughput: 4.52 Mbit/s  
95th percentile per-packet one-way delay: 32.271 ms  
Loss rate: 29.50%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-10-02 23:59:56

End at: 2019-10-03 00:00:26

Local clock offset: -1.184 ms

Remote clock offset: 2.501 ms

# Below is generated by plot.py at 2019-10-03 01:16:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 36.045 ms

Loss rate: 56.32%

-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 35.442 ms

Loss rate: 65.30%

-- Flow 2:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 35.443 ms

Loss rate: 25.85%

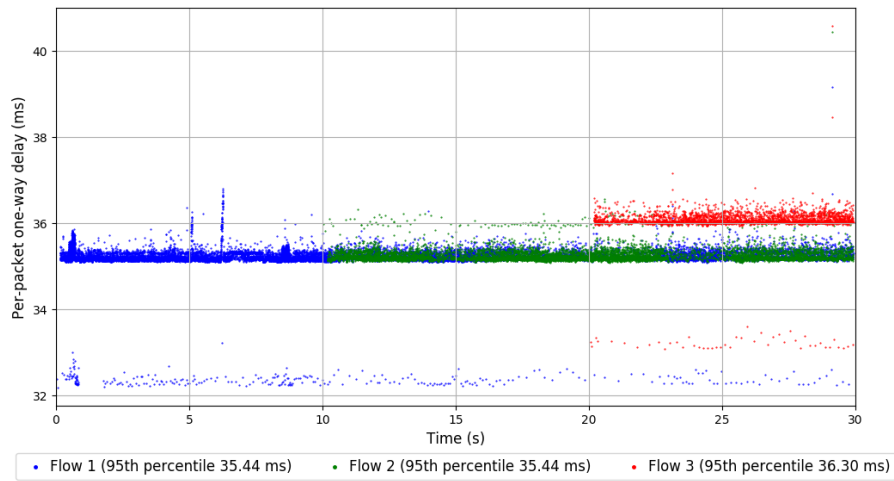
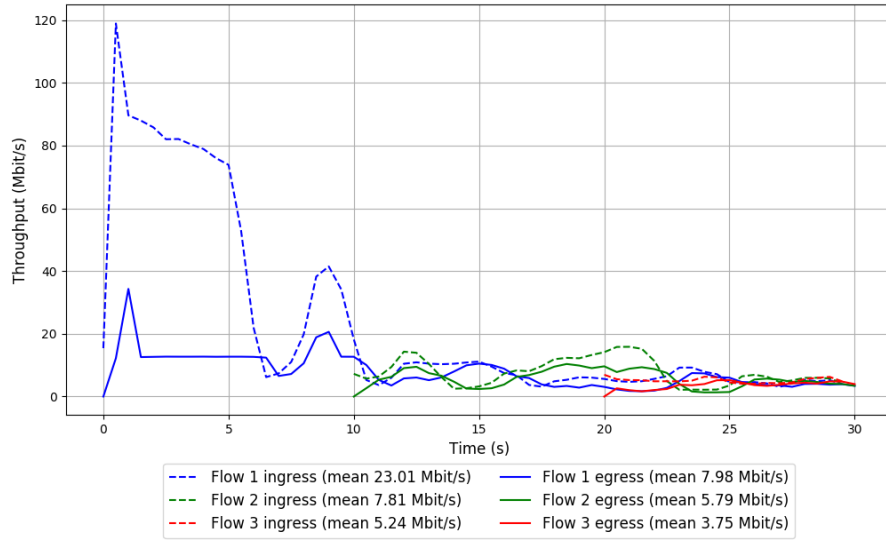
-- Flow 3:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 36.298 ms

Loss rate: 28.37%

### Run 3: Report of PCC-Expr — Data Link





Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 00:29:18

End at: 2019-10-03 00:29:48

Local clock offset: 0.594 ms

Remote clock offset: 1.509 ms

# Below is generated by plot.py at 2019-10-03 01:16:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 34.695 ms

Loss rate: 47.60%

-- Flow 1:

Average throughput: 9.28 Mbit/s

95th percentile per-packet one-way delay: 34.679 ms

Loss rate: 51.71%

-- Flow 2:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 34.698 ms

Loss rate: 35.31%

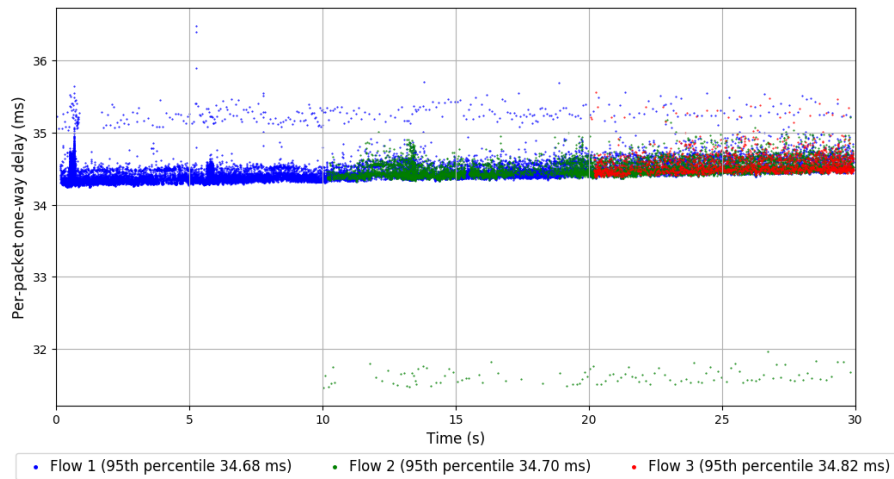
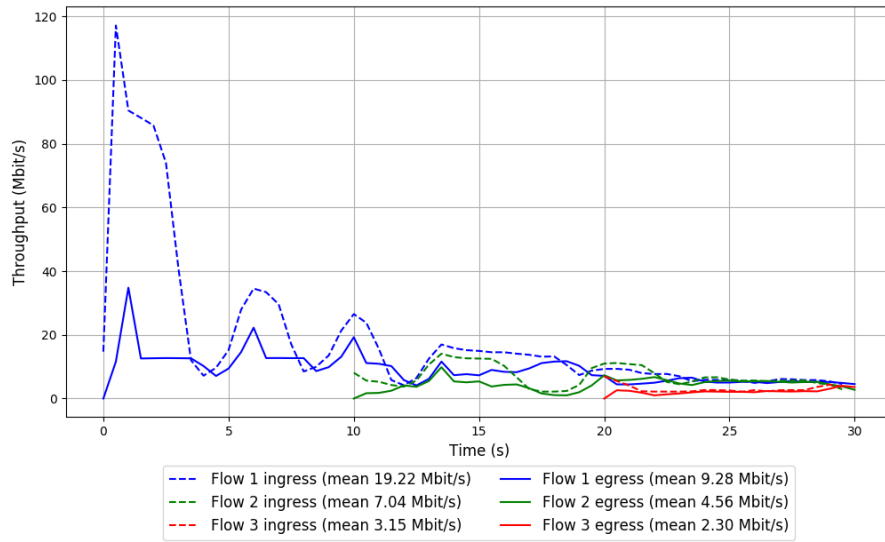
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 34.824 ms

Loss rate: 26.92%

### Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 00:58:26

End at: 2019-10-03 00:58:56

Local clock offset: 7.904 ms

Remote clock offset: 3.161 ms

# Below is generated by plot.py at 2019-10-03 01:16:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.73 Mbit/s

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

Loss rate: 52.51%

-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 34.052 ms

Loss rate: 58.81%

-- Flow 2:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 34.088 ms

Loss rate: 40.73%

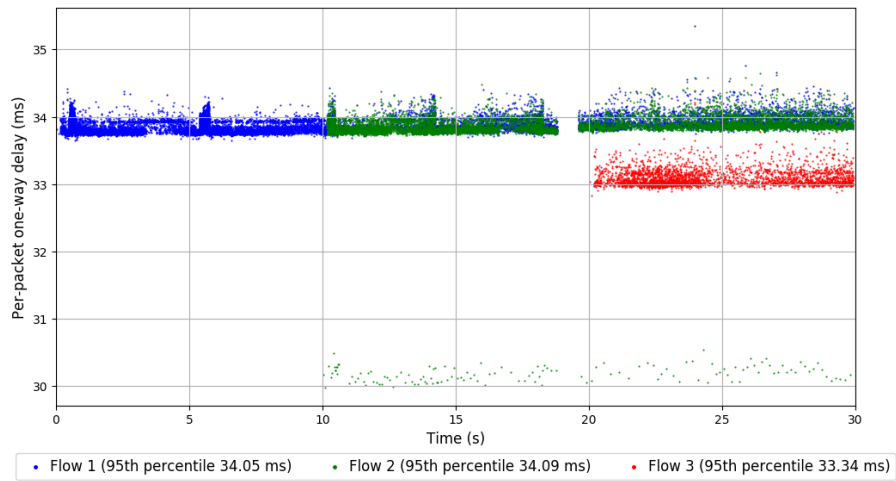
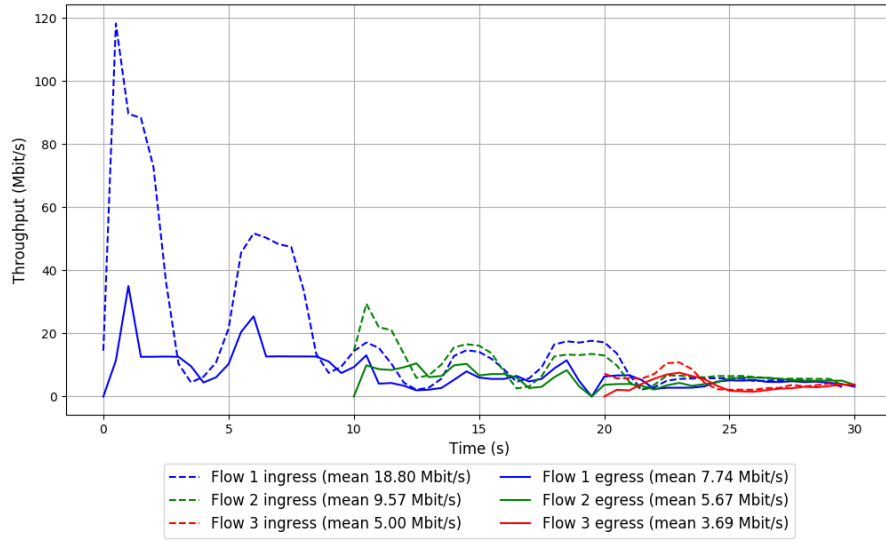
-- Flow 3:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 33.344 ms

Loss rate: 26.18%

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



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-02 22:47:53

End at: 2019-10-02 22:48:23

Local clock offset: -2.84 ms

Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2019-10-03 01:17:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 71.934 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 61.56 Mbit/s

95th percentile per-packet one-way delay: 70.077 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 73.101 ms

Loss rate: 1.41%

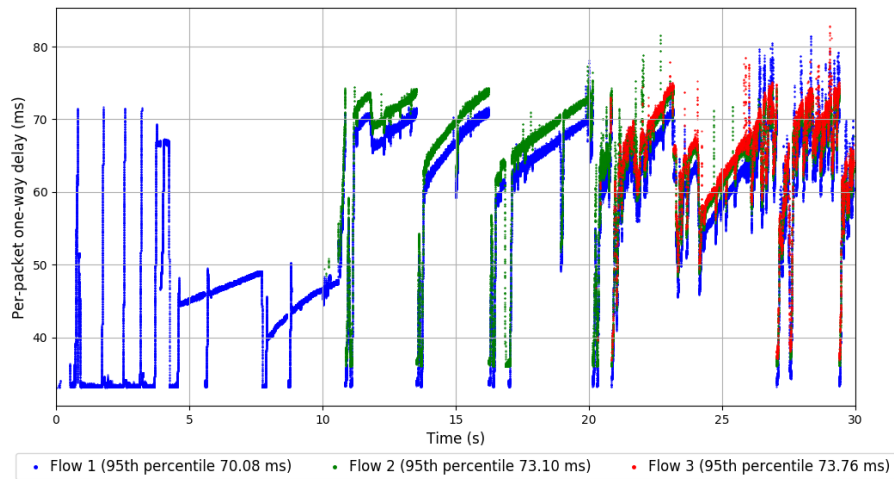
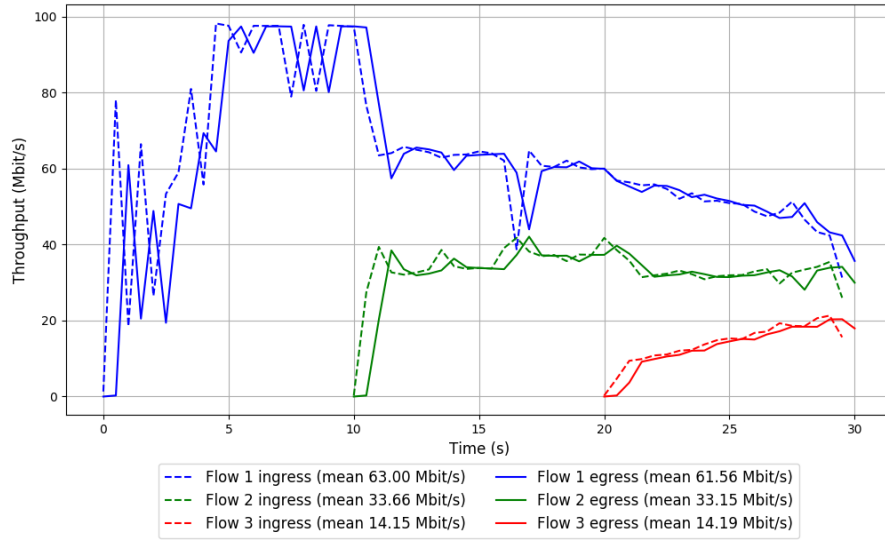
-- Flow 3:

Average throughput: 14.19 Mbit/s

95th percentile per-packet one-way delay: 73.760 ms

Loss rate: 1.05%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-02 23:17:24

End at: 2019-10-02 23:17:54

Local clock offset: 2.441 ms

Remote clock offset: 1.96 ms

# Below is generated by plot.py at 2019-10-03 01:17:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 63.756 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 63.211 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 23.07 Mbit/s

95th percentile per-packet one-way delay: 65.993 ms

Loss rate: 1.02%

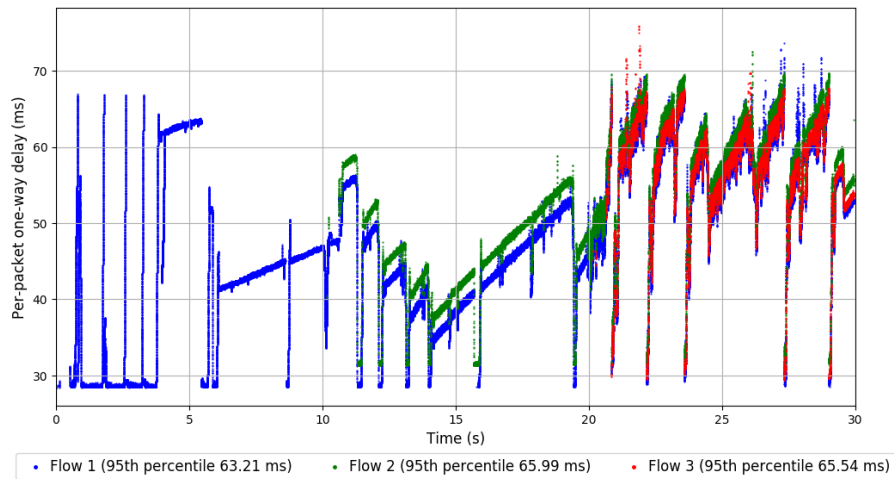
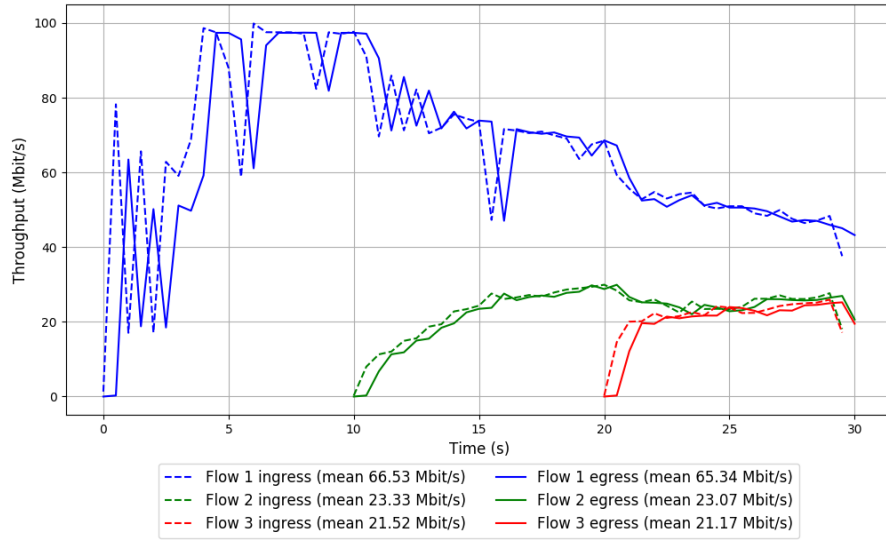
-- Flow 3:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 65.544 ms

Loss rate: 1.57%

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





Run 3: Statistics of QUIC Cubic

Start at: 2019-10-02 23:46:35

End at: 2019-10-02 23:47:05

Local clock offset: 2.472 ms

Remote clock offset: 2.382 ms

# Below is generated by plot.py at 2019-10-03 01:17:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 66.097 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 55.74 Mbit/s

95th percentile per-packet one-way delay: 65.559 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 66.594 ms

Loss rate: 1.02%

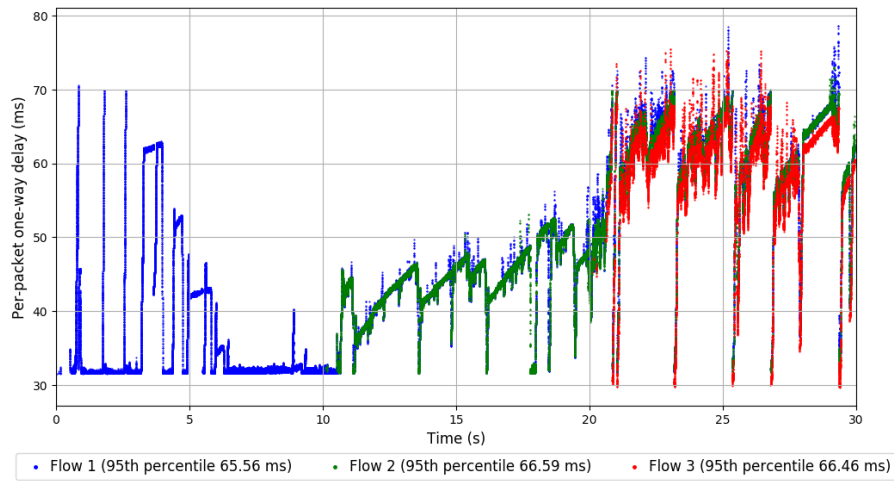
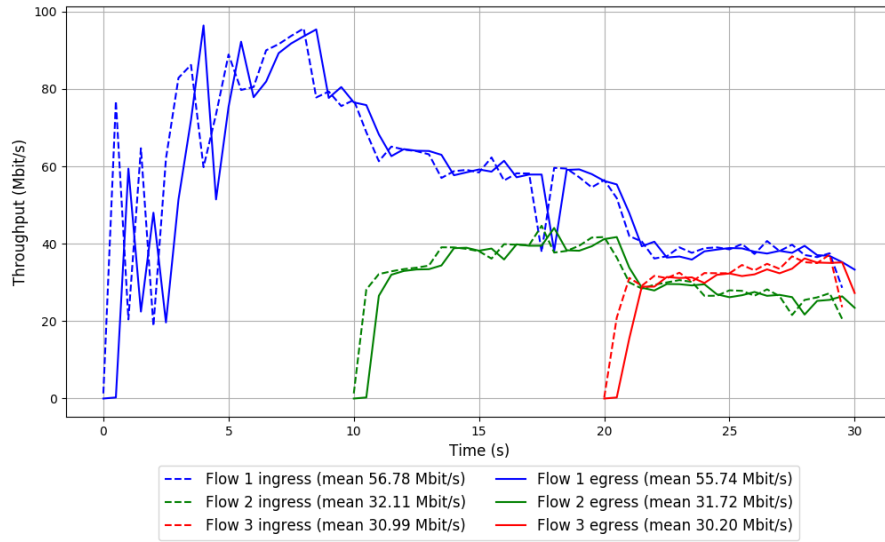
-- Flow 3:

Average throughput: 30.20 Mbit/s

95th percentile per-packet one-way delay: 66.459 ms

Loss rate: 2.38%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 00:15:49

End at: 2019-10-03 00:16:19

Local clock offset: 3.961 ms

Remote clock offset: 3.149 ms

# Below is generated by plot.py at 2019-10-03 01:17:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 58.028 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 58.616 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 53.156 ms

Loss rate: 0.03%

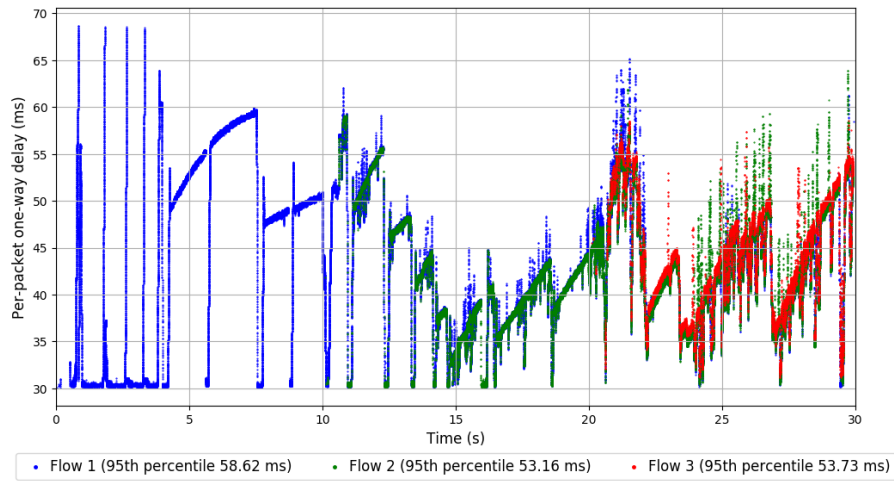
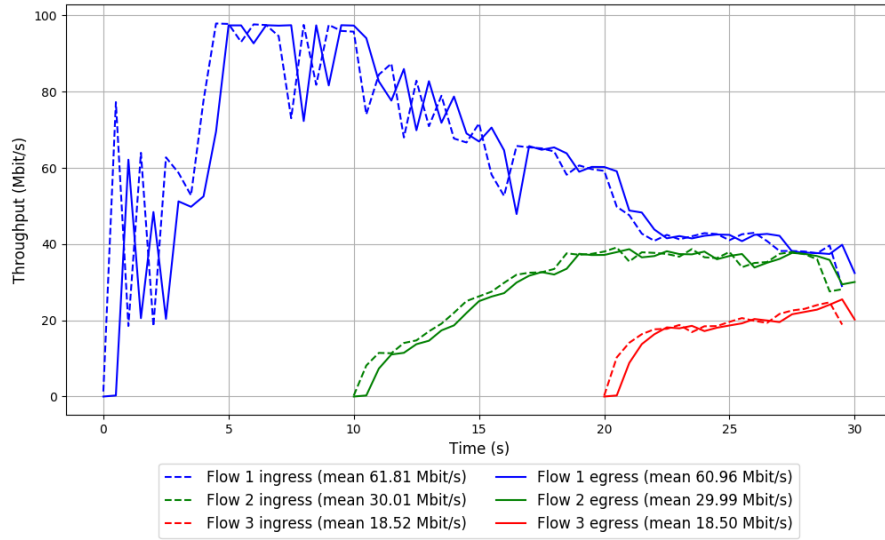
-- Flow 3:

Average throughput: 18.50 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 0.05%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 00:45:04

End at: 2019-10-03 00:45:34

Local clock offset: 8.93 ms

Remote clock offset: 1.643 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 59.202 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 59.854 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 40.58 Mbit/s

95th percentile per-packet one-way delay: 58.950 ms

Loss rate: 0.56%

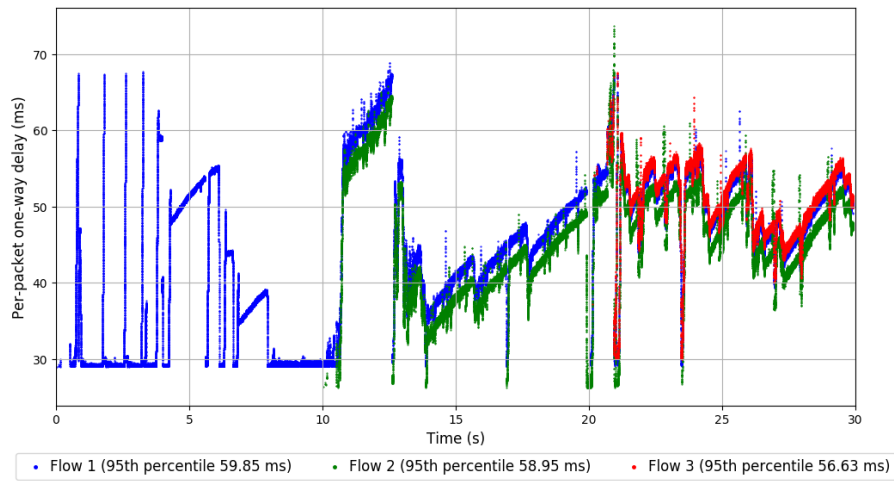
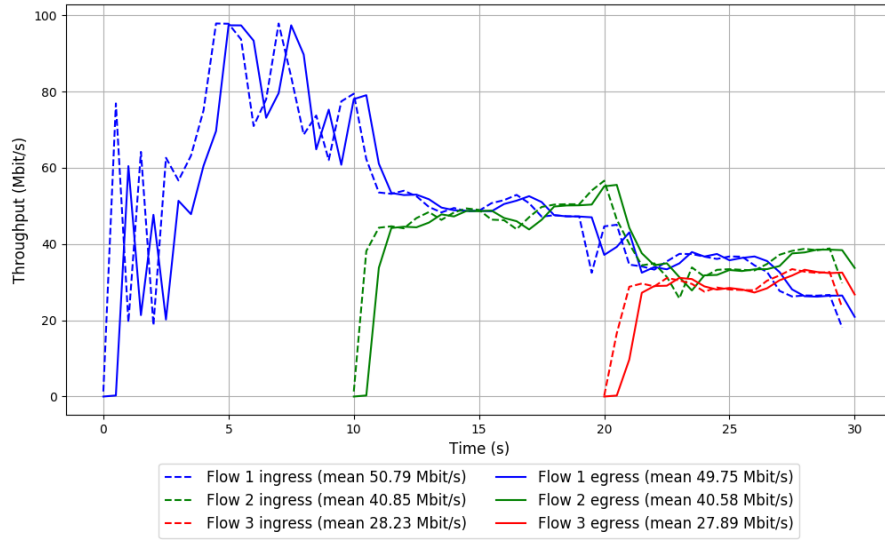
-- Flow 3:

Average throughput: 27.89 Mbit/s

95th percentile per-packet one-way delay: 56.633 ms

Loss rate: 1.06%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-10-02 22:51:32

End at: 2019-10-02 22:52:02

Local clock offset: 2.222 ms

Remote clock offset: 0.846 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 32.128 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.145 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.299 ms

Loss rate: 0.00%

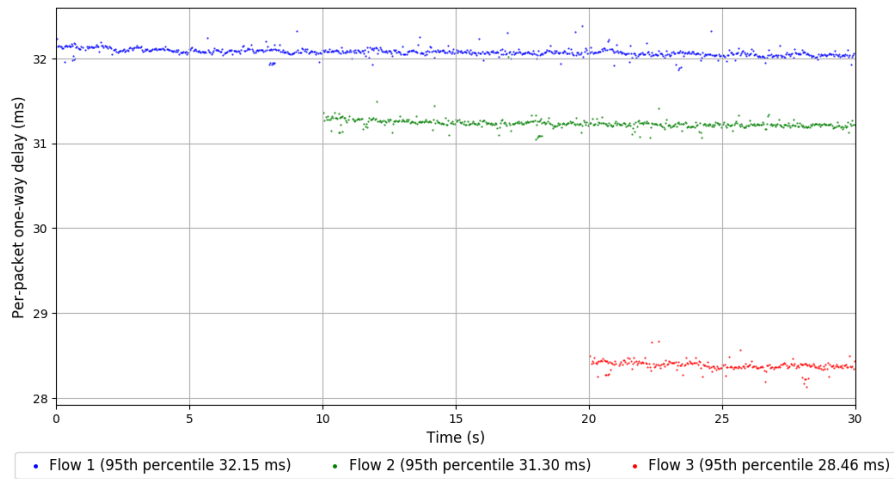
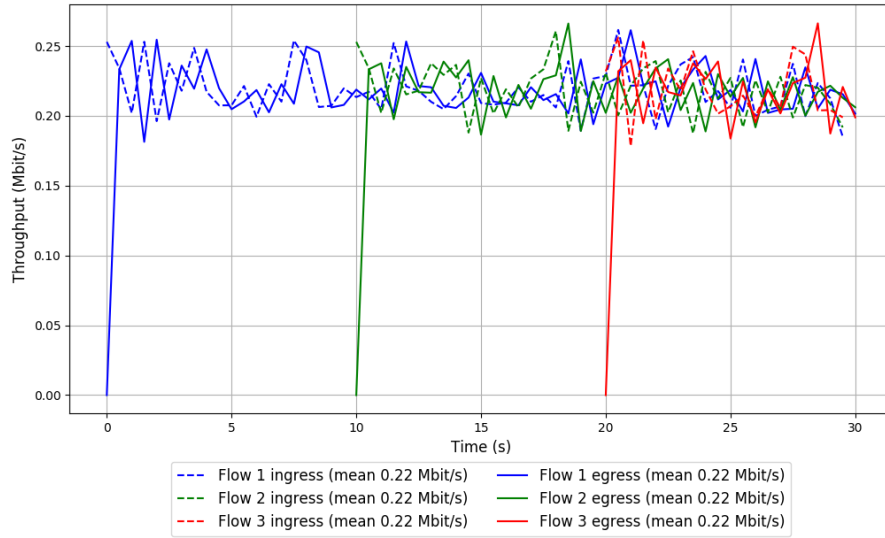
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.464 ms

Loss rate: 0.00%

### Run 1: Report of SCReAM — Data Link





Run 2: Statistics of SCReAM

Start at: 2019-10-02 23:21:10  
End at: 2019-10-02 23:21:40  
Local clock offset: -1.451 ms  
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 34.006 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.180 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.037 ms

Loss rate: 0.00%

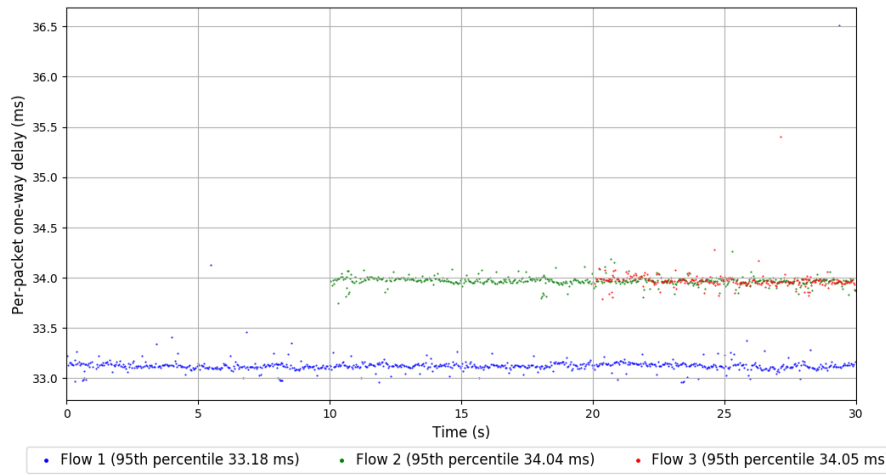
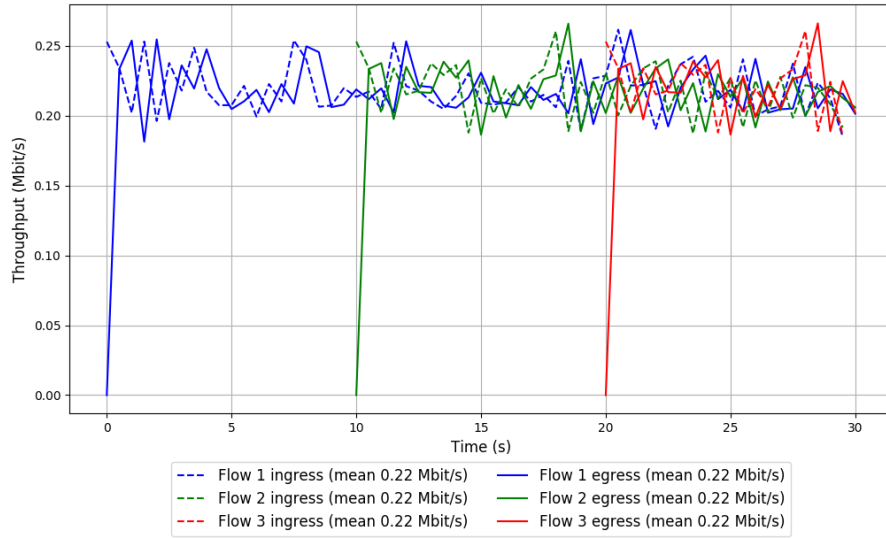
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.045 ms

Loss rate: 0.00%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-10-02 23:50:21

End at: 2019-10-02 23:50:51

Local clock offset: 2.754 ms

Remote clock offset: 3.082 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 32.931 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.124 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.938 ms

Loss rate: 0.00%

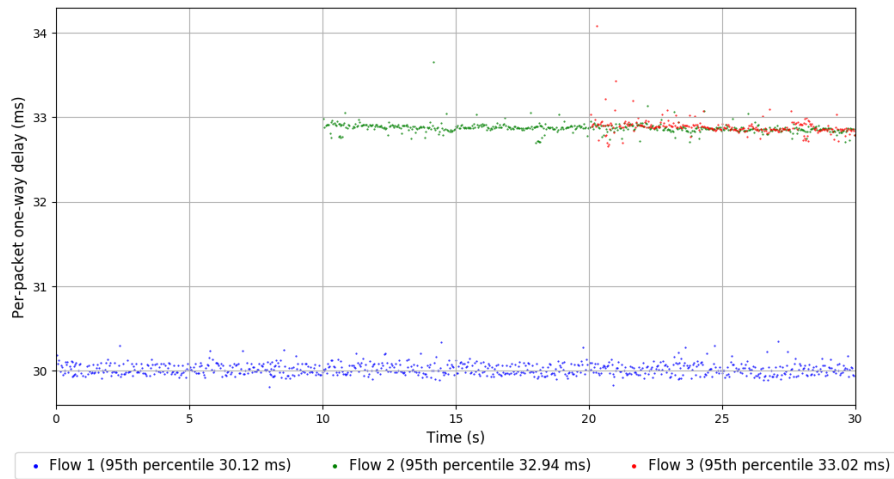
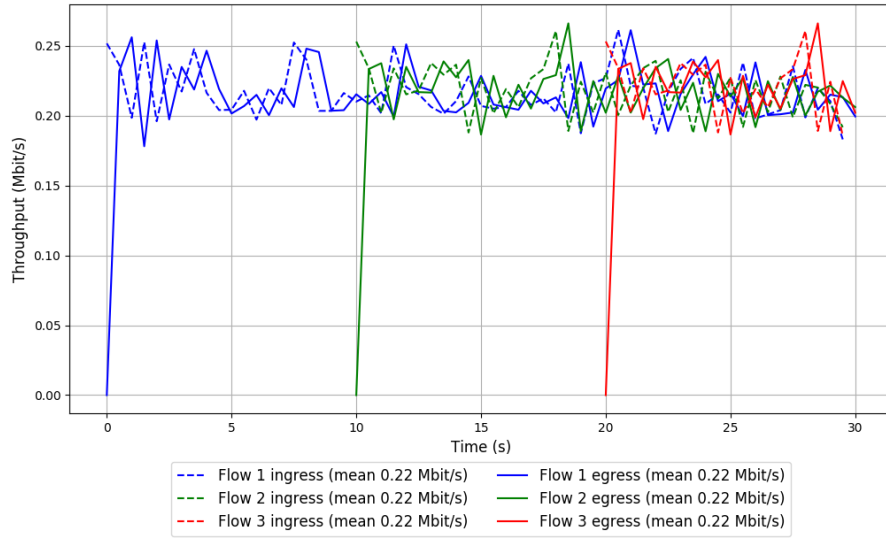
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.025 ms

Loss rate: 0.00%

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



Run 4: Statistics of SCReAM

Start at: 2019-10-03 00:19:35

End at: 2019-10-03 00:20:05

Local clock offset: 0.531 ms

Remote clock offset: 1.983 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 33.659 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.681 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 33.657 ms

Loss rate: 0.00%

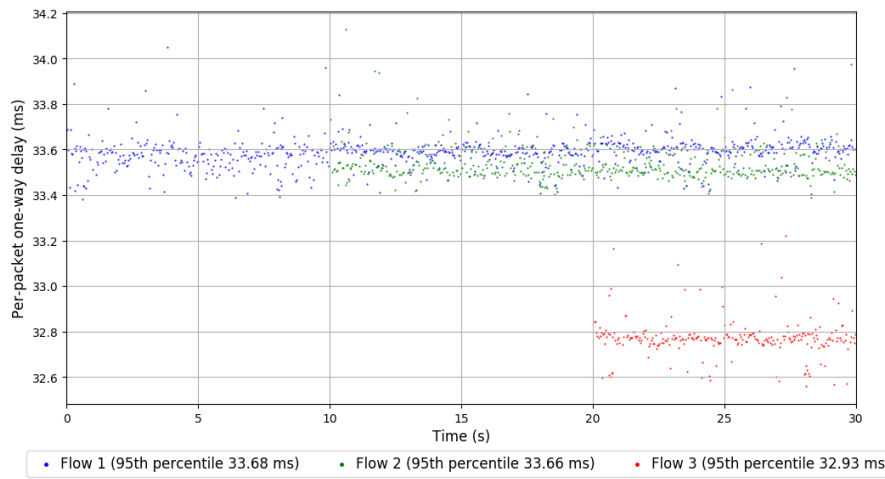
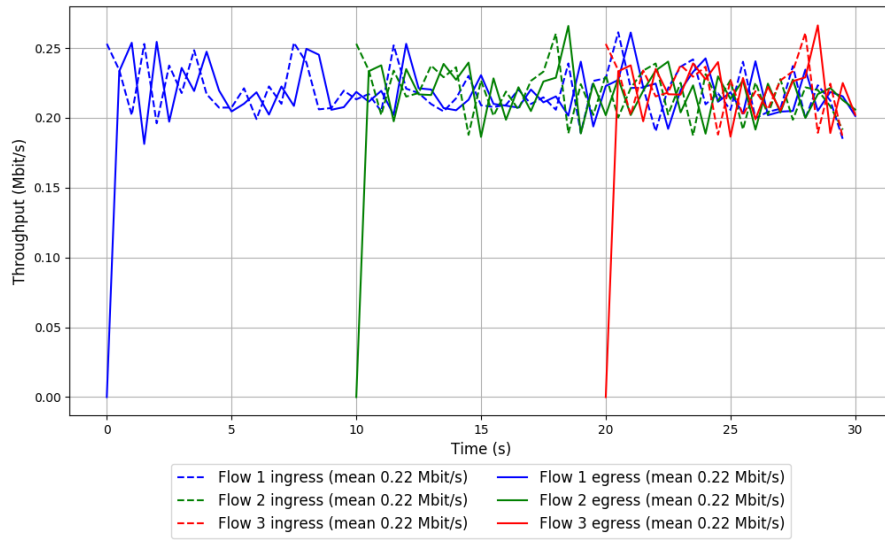
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.926 ms

Loss rate: 0.00%

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



Run 5: Statistics of SCReAM

Start at: 2019-10-03 00:48:41

End at: 2019-10-03 00:49:11

Local clock offset: 8.73 ms

Remote clock offset: 3.54 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 29.872 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 29.802 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.026 ms

Loss rate: 0.00%

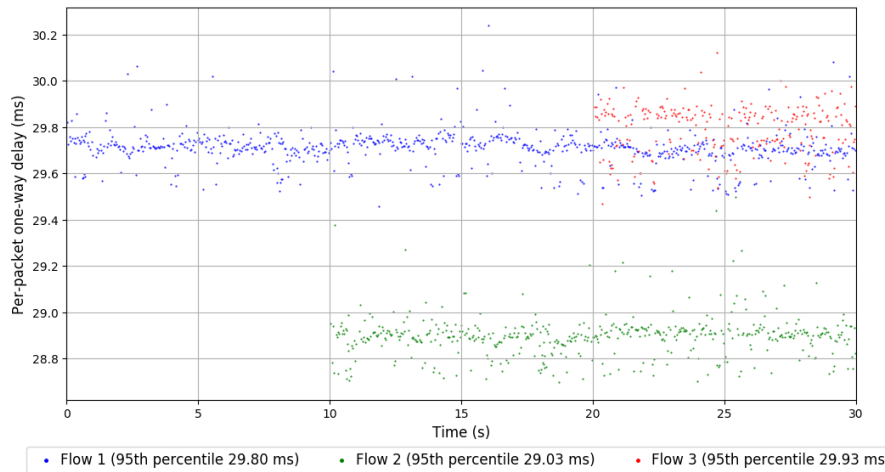
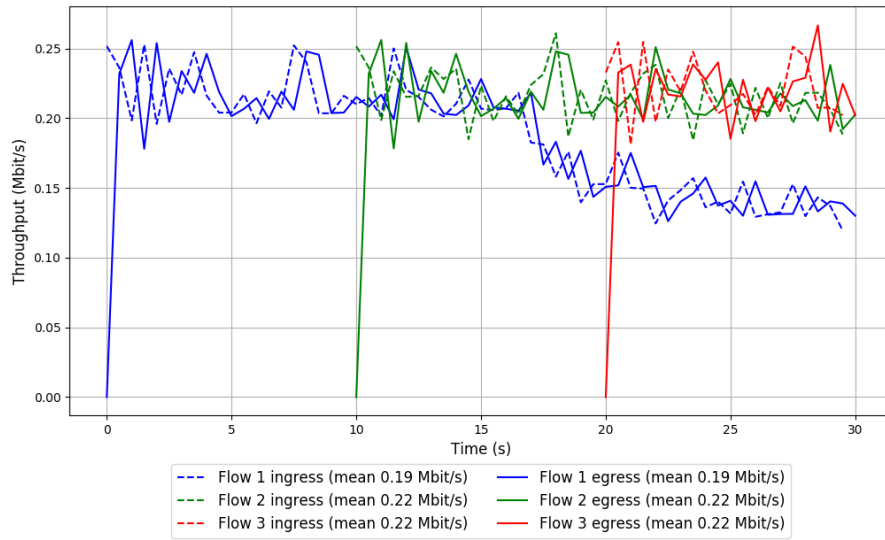
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.926 ms

Loss rate: 0.00%

### Run 5: Report of SCReAM — Data Link





Run 1: Statistics of Sprout

Start at: 2019-10-02 23:03:37

End at: 2019-10-02 23:04:07

Local clock offset: 0.266 ms

Remote clock offset: 0.72 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 37.984 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 15.84 Mbit/s

95th percentile per-packet one-way delay: 37.422 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 38.431 ms

Loss rate: 0.12%

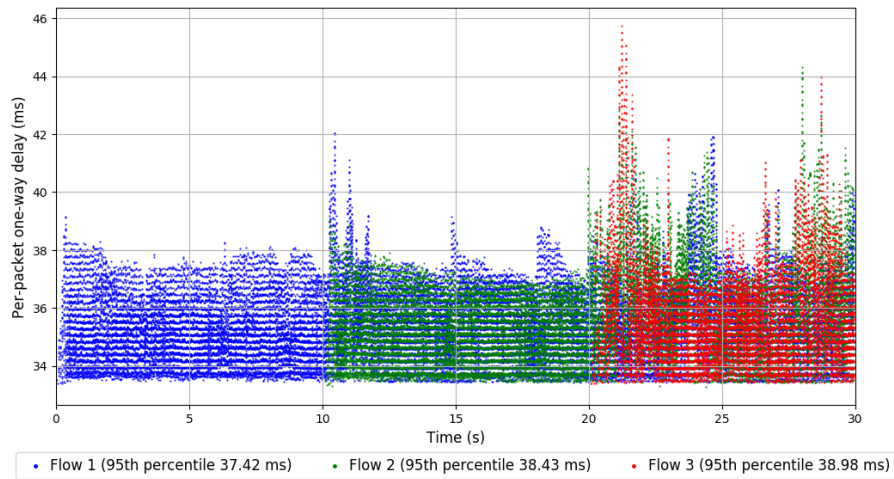
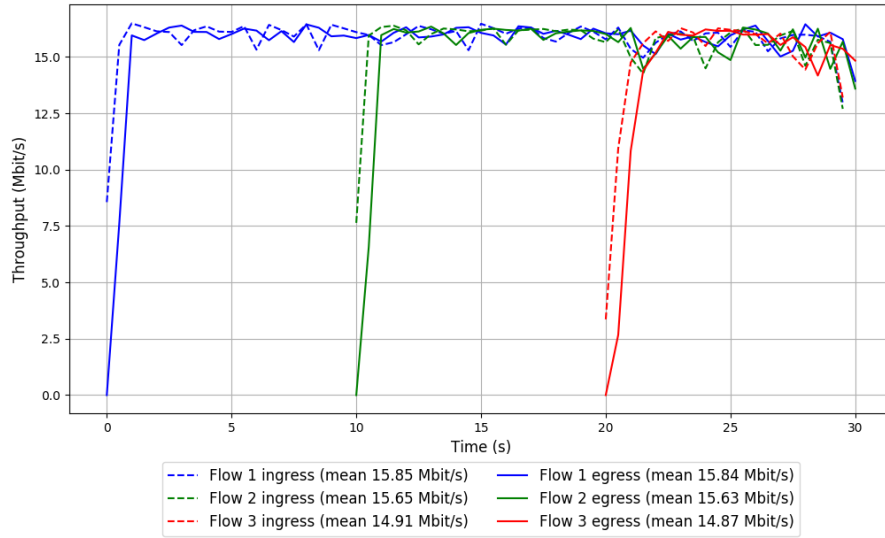
-- Flow 3:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 38.979 ms

Loss rate: 0.20%

# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-02 23:33:17

End at: 2019-10-02 23:33:47

Local clock offset: 0.132 ms

Remote clock offset: 0.775 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 35.434 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 16.00 Mbit/s

95th percentile per-packet one-way delay: 35.546 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 34.901 ms

Loss rate: 0.08%

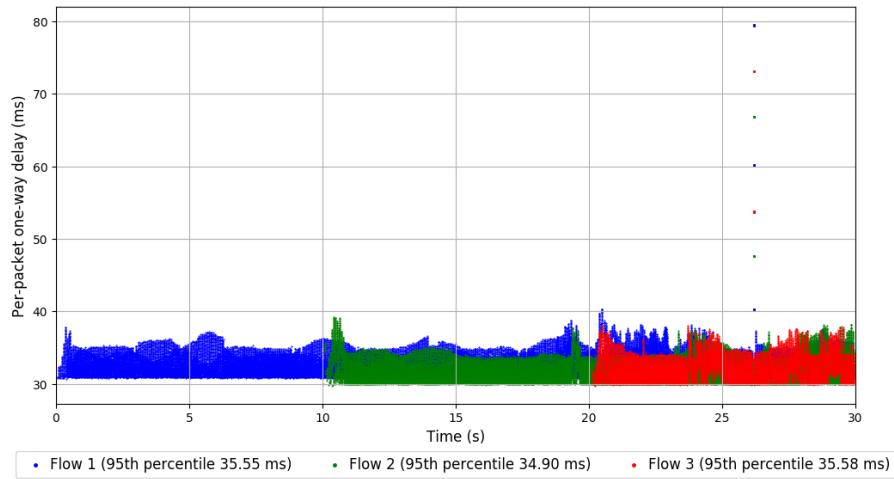
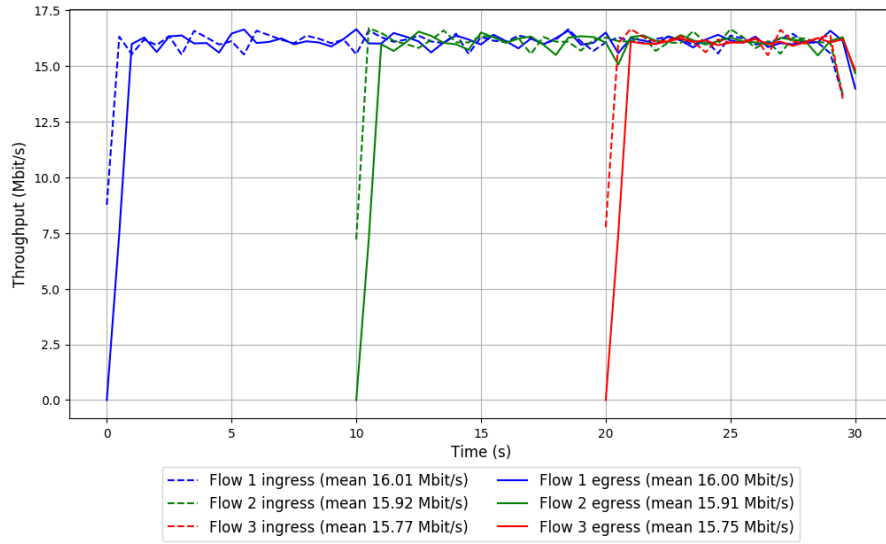
-- Flow 3:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 35.575 ms

Loss rate: 0.08%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-10-03 00:02:24

End at: 2019-10-03 00:02:54

Local clock offset: 1.152 ms

Remote clock offset: 2.552 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 36.732 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 35.003 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 35.420 ms

Loss rate: 0.05%

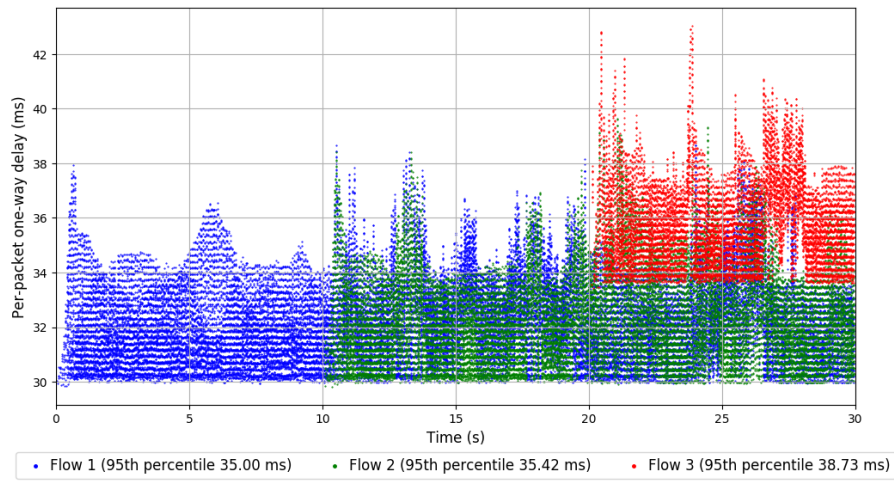
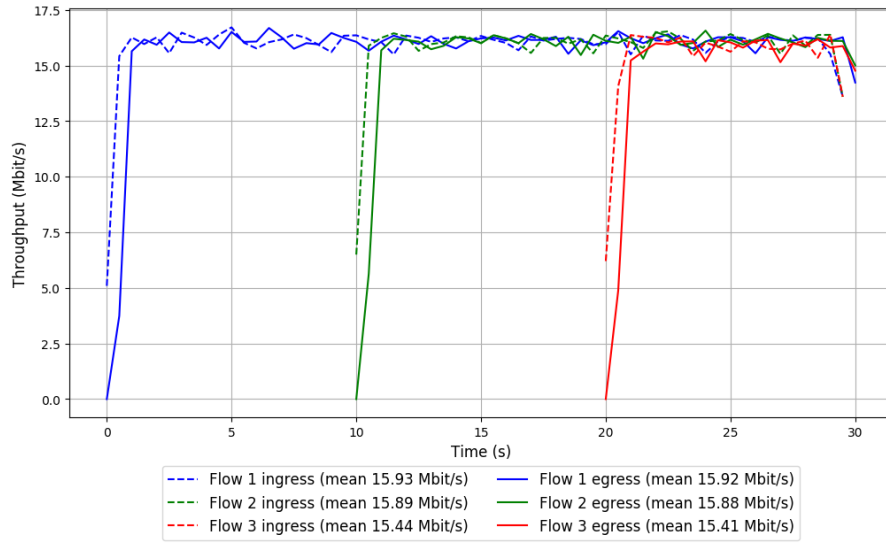
-- Flow 3:

Average throughput: 15.41 Mbit/s

95th percentile per-packet one-way delay: 38.730 ms

Loss rate: 0.17%

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



Run 4: Statistics of Sprout

Start at: 2019-10-03 00:31:46

End at: 2019-10-03 00:32:16

Local clock offset: 1.947 ms

Remote clock offset: 3.426 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 40.708 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 38.188 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 41.035 ms

Loss rate: 0.18%

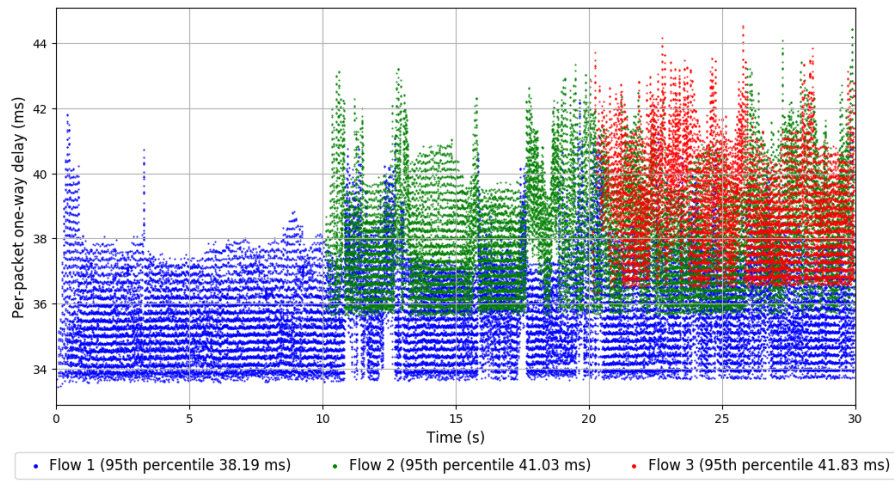
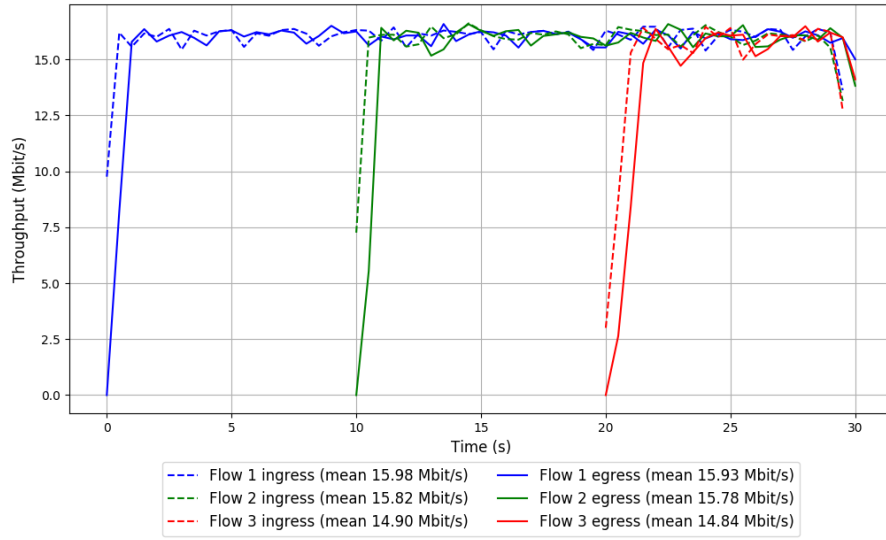
-- Flow 3:

Average throughput: 14.84 Mbit/s

95th percentile per-packet one-way delay: 41.830 ms

Loss rate: 0.42%

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





Run 5: Statistics of Sprout

Start at: 2019-10-03 01:00:48

End at: 2019-10-03 01:01:18

Local clock offset: 9.244 ms

Remote clock offset: 1.444 ms

# Below is generated by plot.py at 2019-10-03 01:17:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 33.872 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 32.343 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 34.919 ms

Loss rate: 0.21%

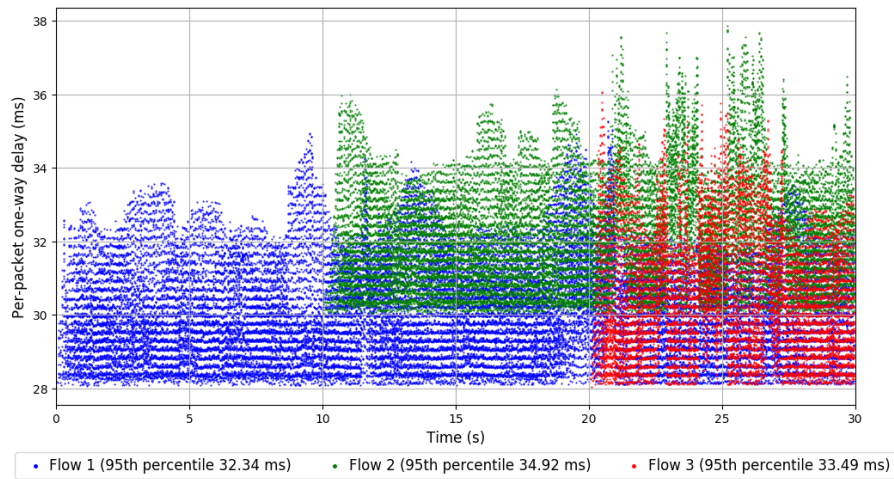
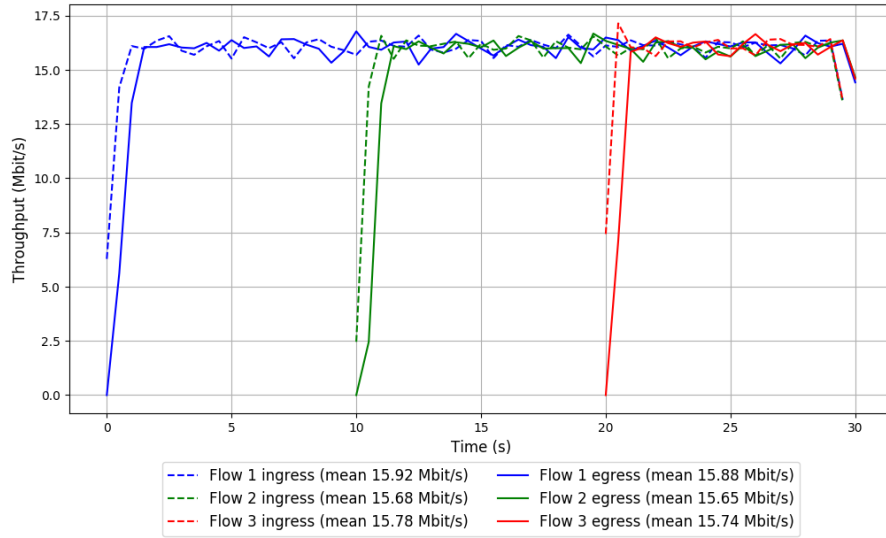
-- Flow 3:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 33.486 ms

Loss rate: 0.23%

### Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-10-02 23:06:00

End at: 2019-10-02 23:06:30

Local clock offset: -1.846 ms

Remote clock offset: 1.364 ms

# Below is generated by plot.py at 2019-10-03 01:17:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.66 Mbit/s

95th percentile per-packet one-way delay: 36.659 ms

Loss rate: 92.43%

-- Flow 1:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 39.754 ms

Loss rate: 84.52%

-- Flow 2:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 35.947 ms

Loss rate: 91.84%

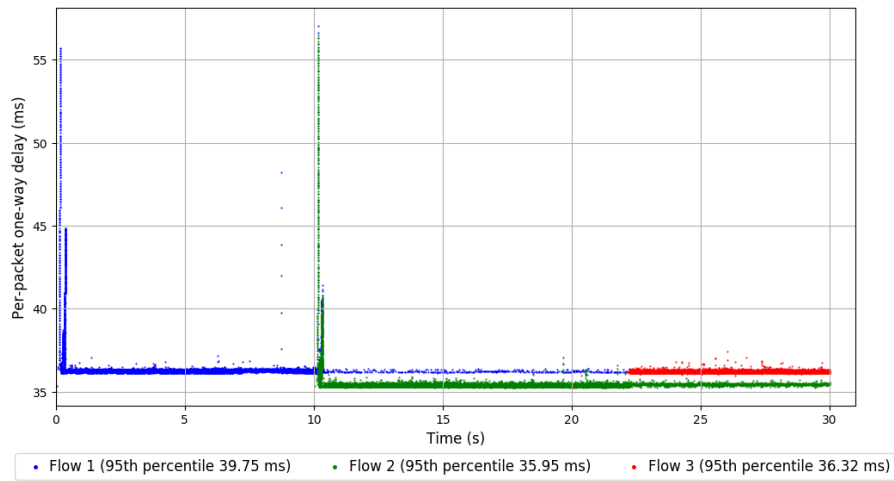
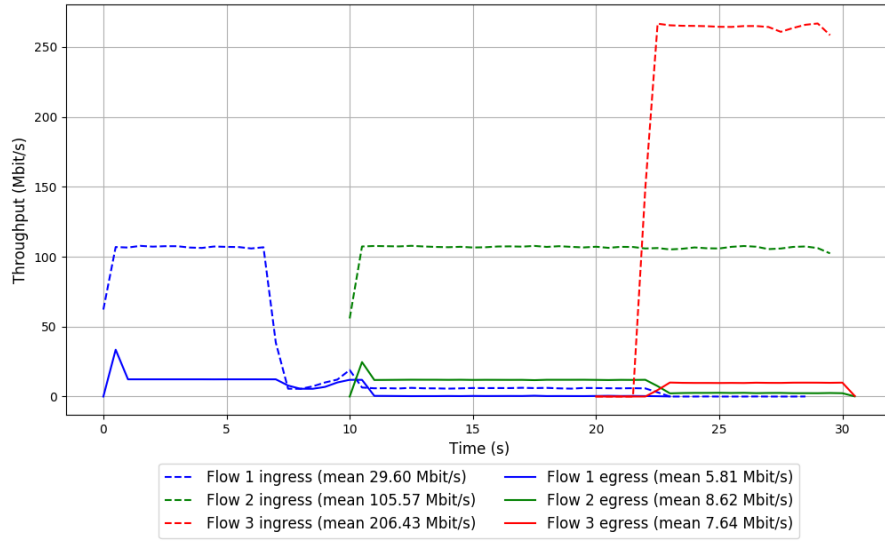
-- Flow 3:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 36.324 ms

Loss rate: 96.30%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-02 23:35:34

End at: 2019-10-02 23:36:04

Local clock offset: -1.728 ms

Remote clock offset: 1.444 ms

# Below is generated by plot.py at 2019-10-03 01:17:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 36.653 ms

Loss rate: 88.18%

-- Flow 1:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 35.884 ms

Loss rate: 86.72%

-- Flow 2:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 37.268 ms

Loss rate: 87.19%

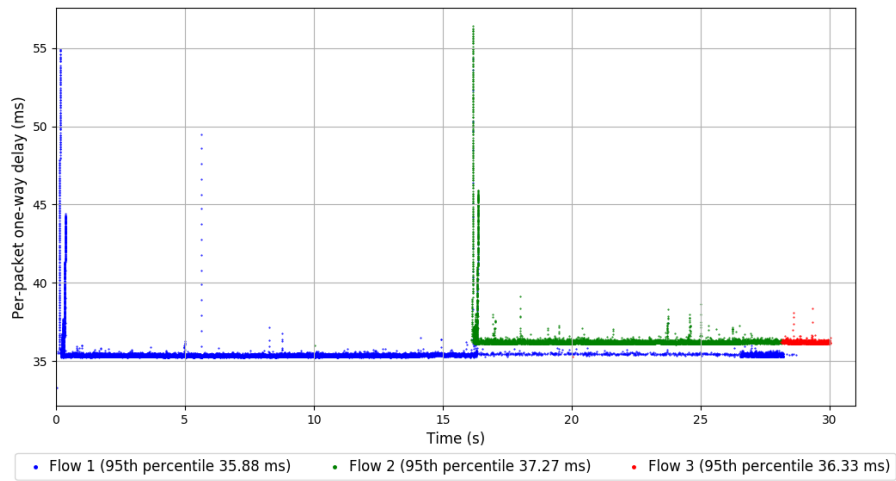
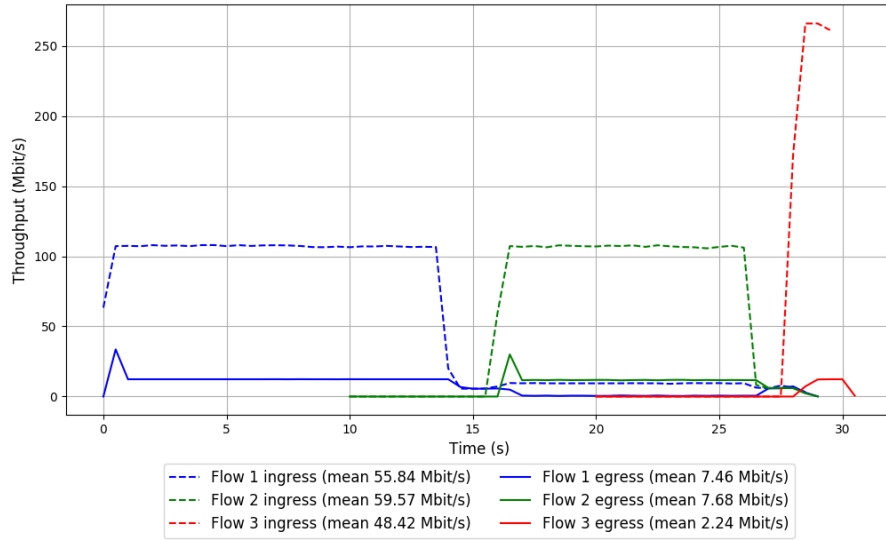
-- Flow 3:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 36.334 ms

Loss rate: 95.37%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 00:04:42

End at: 2019-10-03 00:05:12

Local clock offset: -1.318 ms

Remote clock offset: 0.939 ms

# Below is generated by plot.py at 2019-10-03 01:17:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 34.802 ms

Loss rate: 93.12%

-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 36.417 ms

Loss rate: 83.95%

-- Flow 2:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 34.747 ms

Loss rate: 92.88%

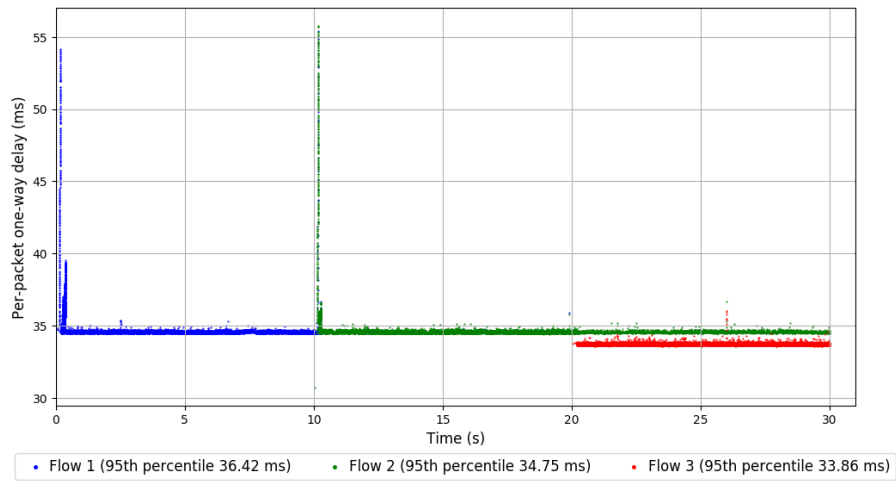
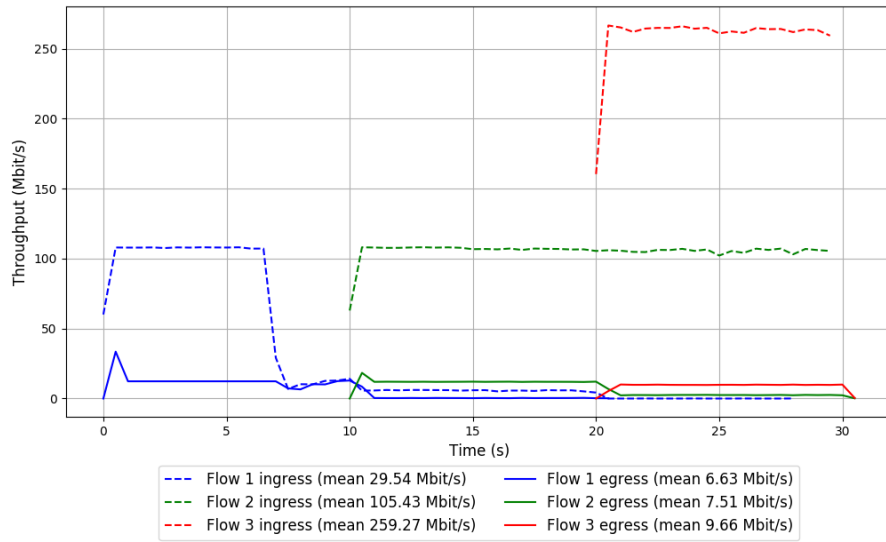
-- Flow 3:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 33.864 ms

Loss rate: 96.27%

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 00:34:03

End at: 2019-10-03 00:34:33

Local clock offset: 4.602 ms

Remote clock offset: 3.08 ms

# Below is generated by plot.py at 2019-10-03 01:17:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 35.128 ms

Loss rate: 86.83%

-- Flow 1:

Average throughput: 9.33 Mbit/s

95th percentile per-packet one-way delay: 35.233 ms

Loss rate: 86.55%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 34.680 ms

Loss rate: 87.55%

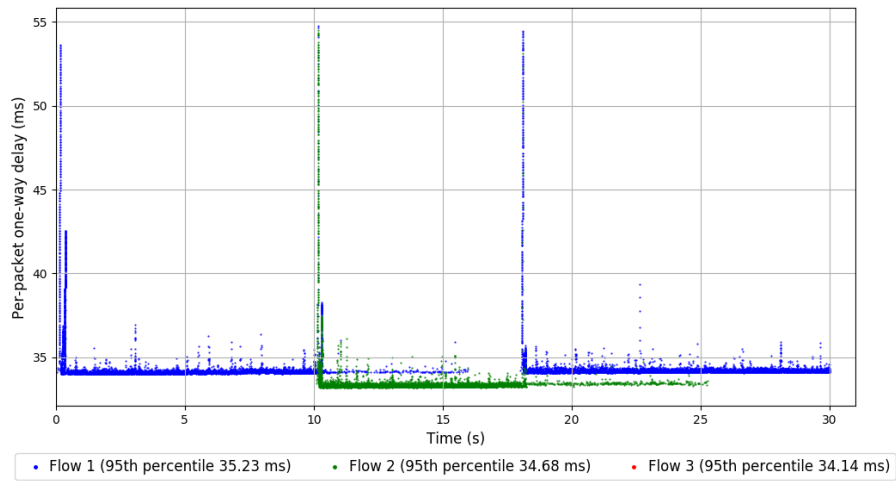
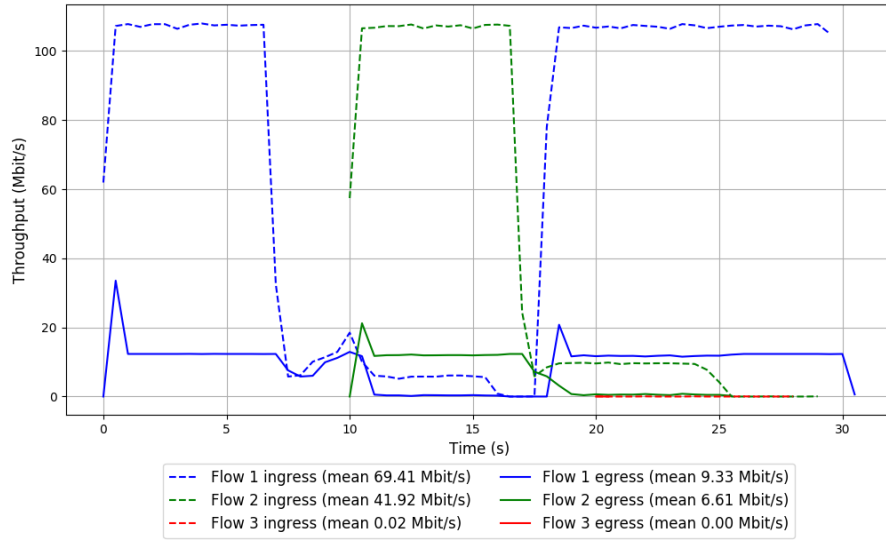
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 34.139 ms

Loss rate: 99.16%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 01:03:04

End at: 2019-10-03 01:03:34

Local clock offset: 7.191 ms

Remote clock offset: 3.005 ms

# Below is generated by plot.py at 2019-10-03 01:17:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 34.256 ms

Loss rate: 78.35%

-- Flow 1:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 36.111 ms

Loss rate: 83.33%

-- Flow 2:

Average throughput: 11.55 Mbit/s

95th percentile per-packet one-way delay: 34.150 ms

Loss rate: 73.13%

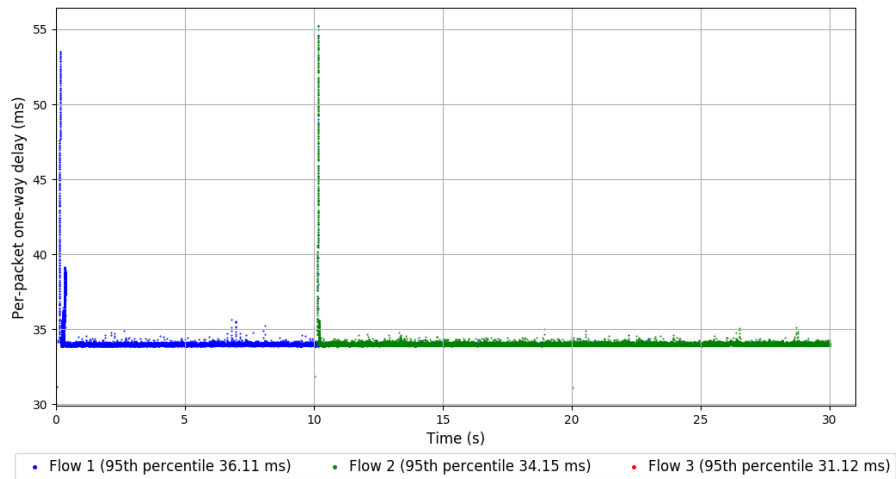
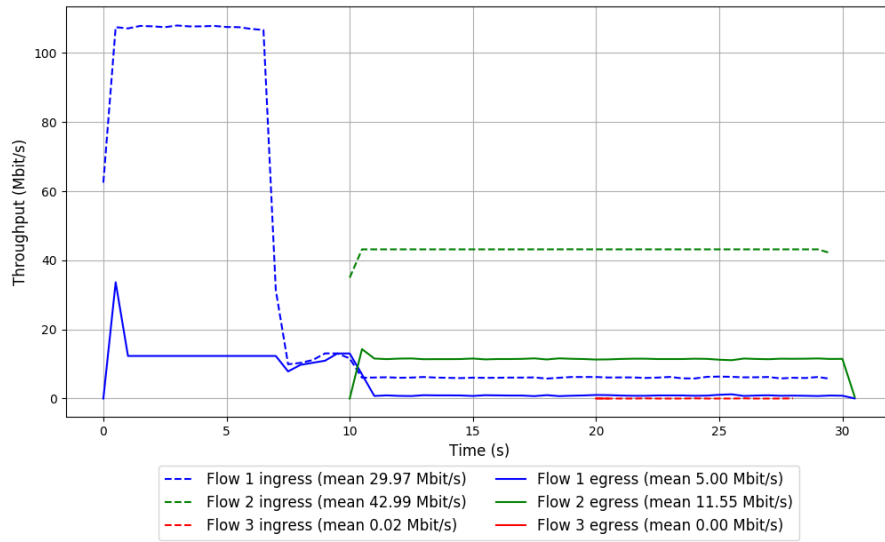
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.116 ms

Loss rate: 99.16%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-02 22:49:05  
End at: 2019-10-02 22:49:35  
Local clock offset: 0.103 ms  
Remote clock offset: -0.944 ms

# Below is generated by plot.py at 2019-10-03 01:18:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.33 Mbit/s  
95th percentile per-packet one-way delay: 53.822 ms  
Loss rate: 0.29%

-- Flow 1:

Average throughput: 66.39 Mbit/s  
95th percentile per-packet one-way delay: 54.119 ms  
Loss rate: 0.40%

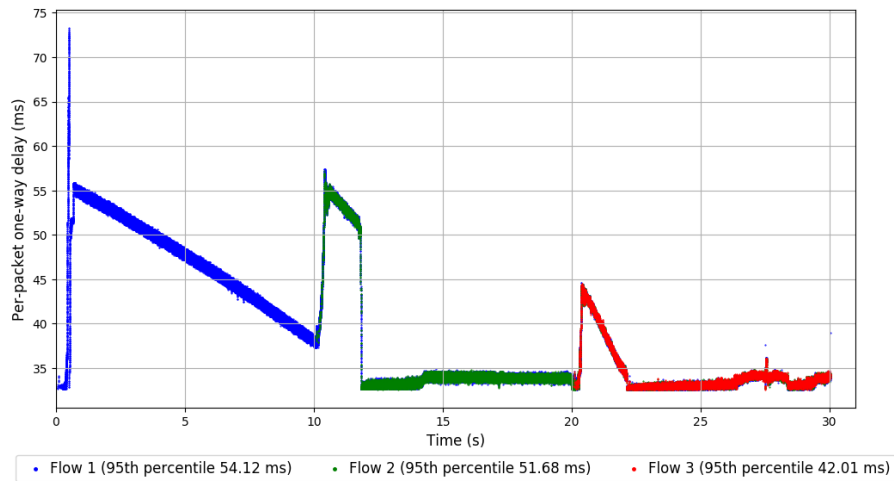
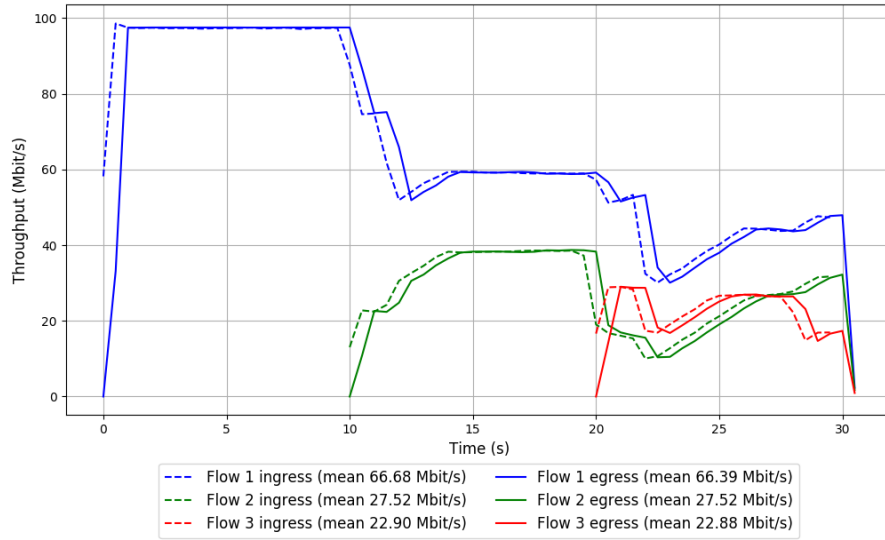
-- Flow 2:

Average throughput: 27.52 Mbit/s  
95th percentile per-packet one-way delay: 51.682 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 22.88 Mbit/s  
95th percentile per-packet one-way delay: 42.005 ms  
Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-02 23:18:39  
End at: 2019-10-02 23:19:09  
Local clock offset: -0.249 ms  
Remote clock offset: -0.497 ms

# Below is generated by plot.py at 2019-10-03 01:18:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.30 Mbit/s  
95th percentile per-packet one-way delay: 31.731 ms  
Loss rate: 1.05%

-- Flow 1:

Average throughput: 44.05 Mbit/s  
95th percentile per-packet one-way delay: 30.789 ms  
Loss rate: 1.33%

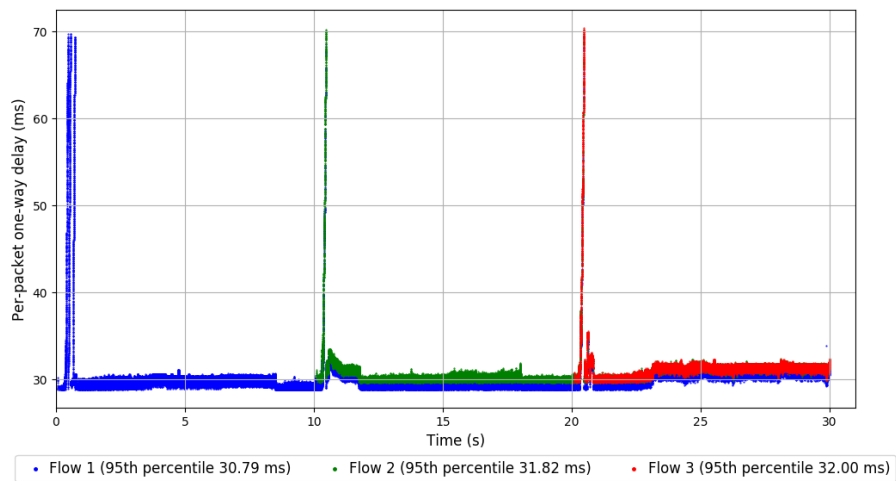
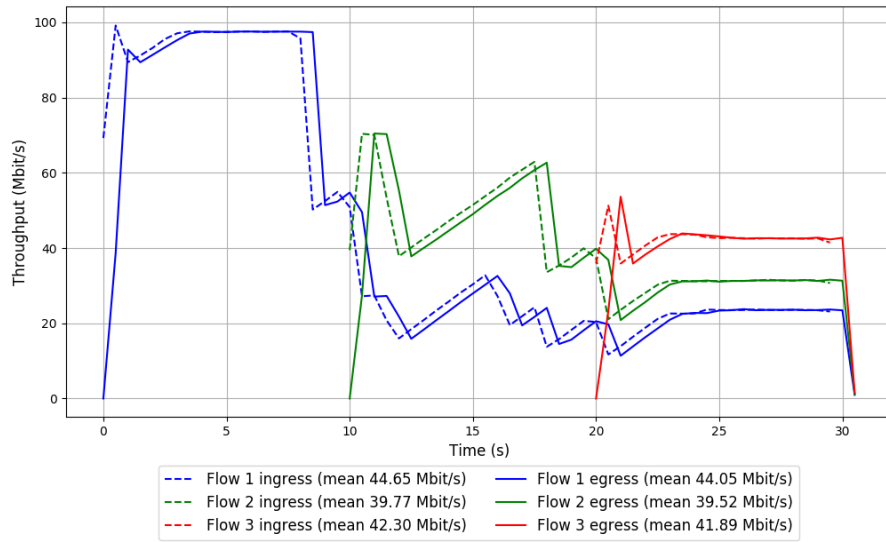
-- Flow 2:

Average throughput: 39.52 Mbit/s  
95th percentile per-packet one-way delay: 31.819 ms  
Loss rate: 0.62%

-- Flow 3:

Average throughput: 41.89 Mbit/s  
95th percentile per-packet one-way delay: 32.004 ms  
Loss rate: 0.96%

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





Run 3: Statistics of TCP Vegas

Start at: 2019-10-02 23:47:48

End at: 2019-10-02 23:48:18

Local clock offset: -1.522 ms

Remote clock offset: 1.577 ms

# Below is generated by plot.py at 2019-10-03 01:18:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 58.458 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 39.47 Mbit/s

95th percentile per-packet one-way delay: 59.125 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 33.846 ms

Loss rate: 0.71%

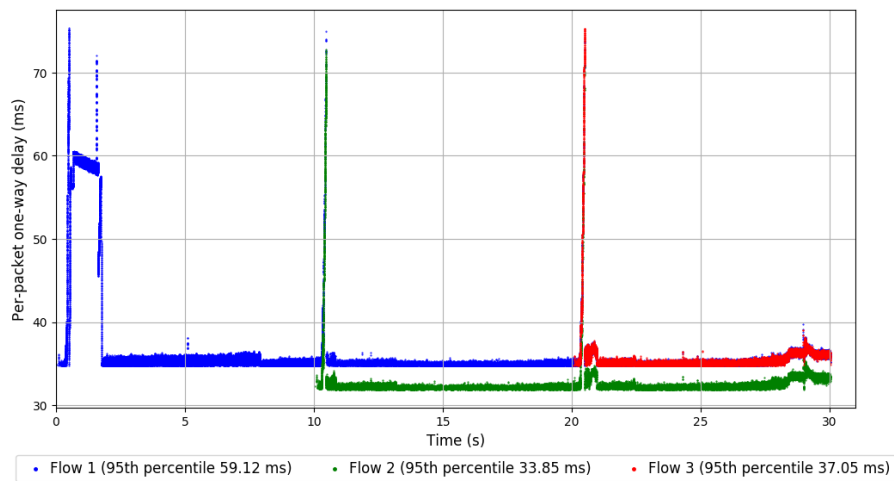
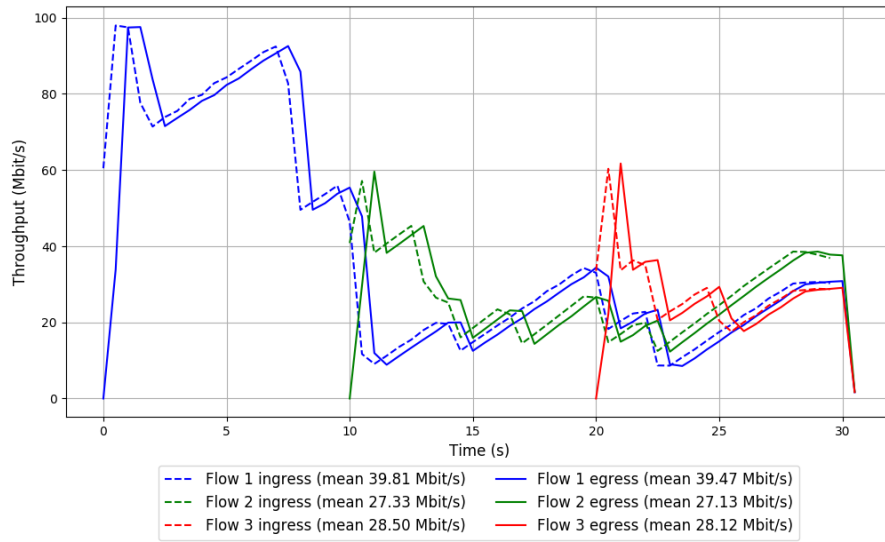
-- Flow 3:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 37.049 ms

Loss rate: 1.33%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 00:17:02

End at: 2019-10-03 00:17:32

Local clock offset: 3.277 ms

Remote clock offset: 2.671 ms

# Below is generated by plot.py at 2019-10-03 01:18:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 57.766 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 45.584 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 47.46 Mbit/s

95th percentile per-packet one-way delay: 58.841 ms

Loss rate: 0.99%

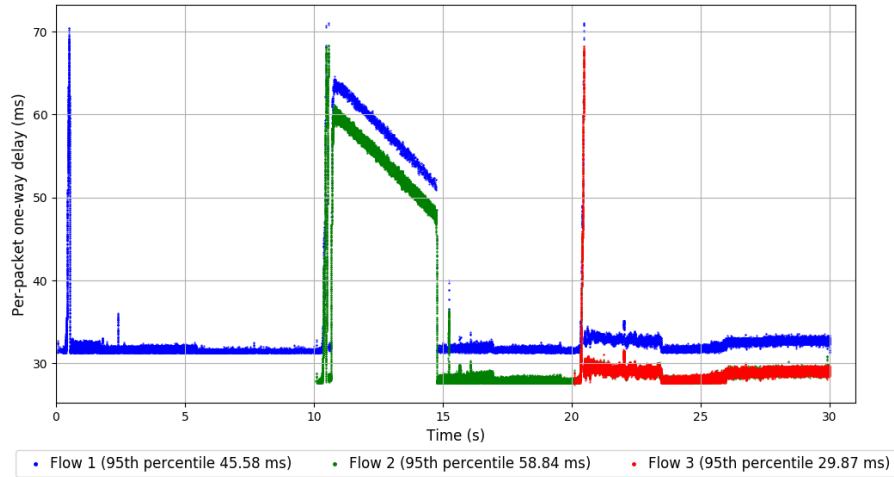
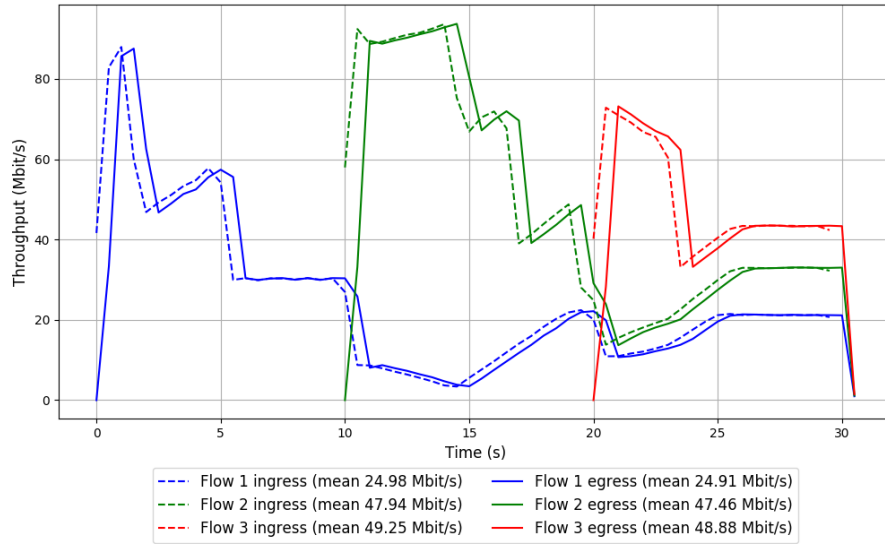
-- Flow 3:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 29.867 ms

Loss rate: 0.76%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 00:46:16

End at: 2019-10-03 00:46:46

Local clock offset: 4.545 ms

Remote clock offset: 2.69 ms

# Below is generated by plot.py at 2019-10-03 01:18:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 62.020 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 61.270 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 63.127 ms

Loss rate: 0.20%

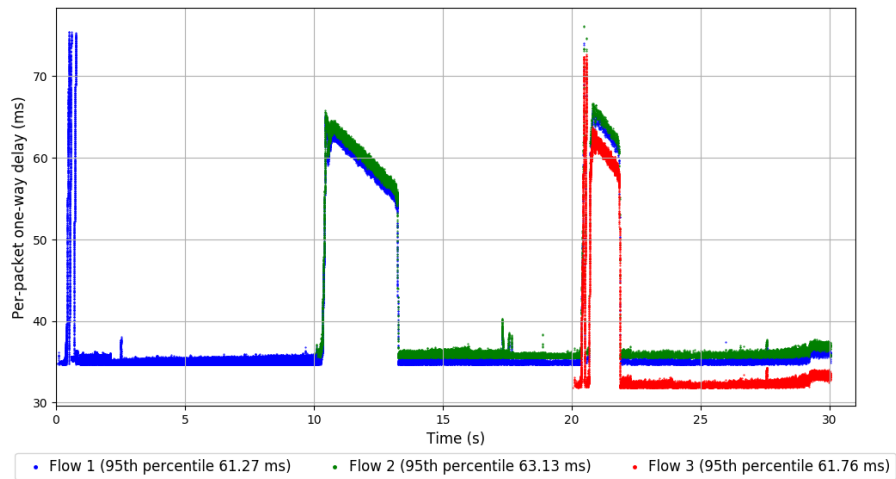
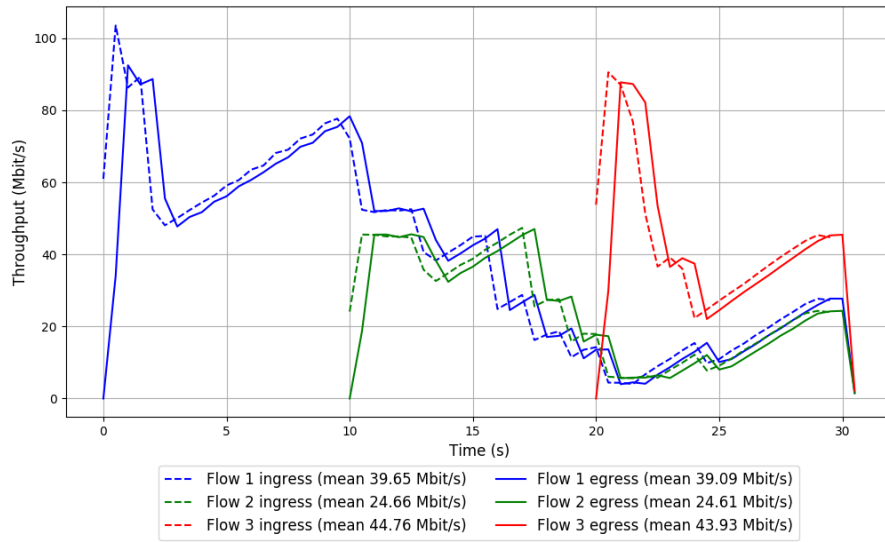
-- Flow 3:

Average throughput: 43.93 Mbit/s

95th percentile per-packet one-way delay: 61.755 ms

Loss rate: 1.83%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-10-02 22:59:59

End at: 2019-10-02 23:00:29

Local clock offset: 0.456 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-10-03 01:18:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.64 Mbit/s

95th percentile per-packet one-way delay: 67.667 ms

Loss rate: 35.84%

-- Flow 1:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 67.711 ms

Loss rate: 33.57%

-- Flow 2:

Average throughput: 26.04 Mbit/s

95th percentile per-packet one-way delay: 65.801 ms

Loss rate: 25.87%

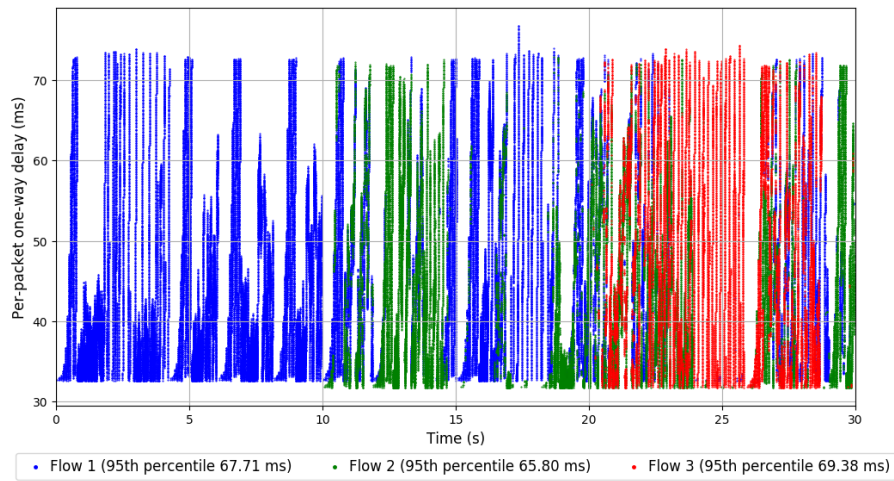
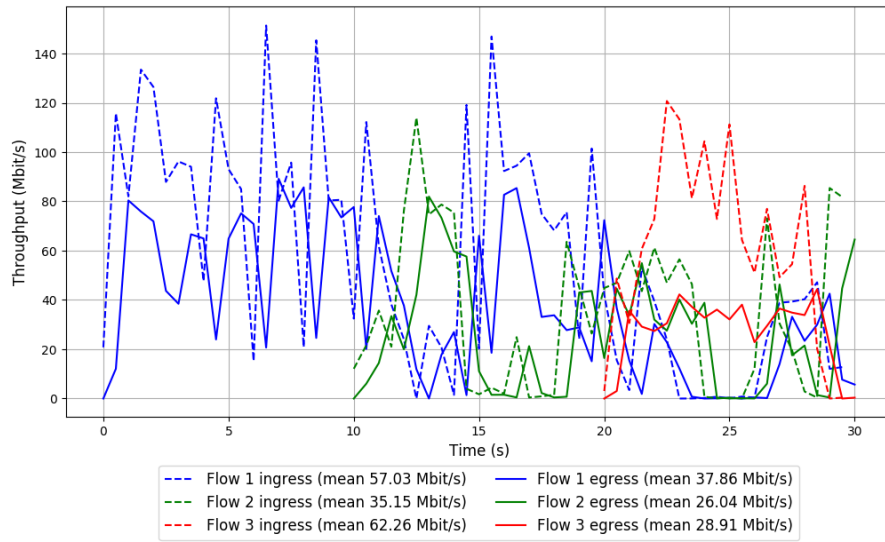
-- Flow 3:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 69.376 ms

Loss rate: 53.54%

### Run 1: Report of Verus — Data Link





Run 2: Statistics of Verus

Start at: 2019-10-02 23:29:36  
End at: 2019-10-02 23:30:06  
Local clock offset: 0.562 ms  
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2019-10-03 01:18:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.72 Mbit/s  
95th percentile per-packet one-way delay: 63.346 ms  
Loss rate: 24.15%

-- Flow 1:

Average throughput: 43.60 Mbit/s  
95th percentile per-packet one-way delay: 60.768 ms  
Loss rate: 17.70%

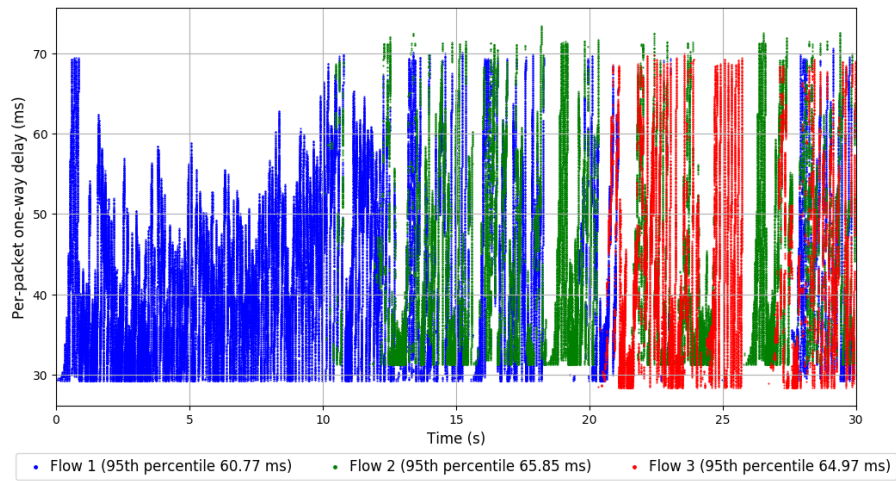
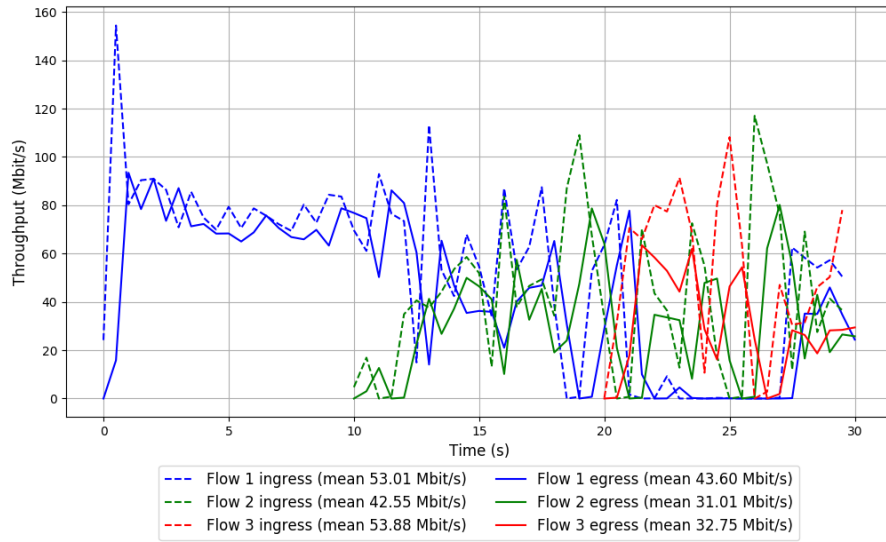
-- Flow 2:

Average throughput: 31.01 Mbit/s  
95th percentile per-packet one-way delay: 65.852 ms  
Loss rate: 27.12%

-- Flow 3:

Average throughput: 32.75 Mbit/s  
95th percentile per-packet one-way delay: 64.973 ms  
Loss rate: 39.08%

## Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-10-02 23:58:42

End at: 2019-10-02 23:59:12

Local clock offset: -0.857 ms

Remote clock offset: 2.193 ms

# Below is generated by plot.py at 2019-10-03 01:18:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.48 Mbit/s

95th percentile per-packet one-way delay: 68.438 ms

Loss rate: 31.60%

-- Flow 1:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 68.641 ms

Loss rate: 33.60%

-- Flow 2:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 66.564 ms

Loss rate: 30.99%

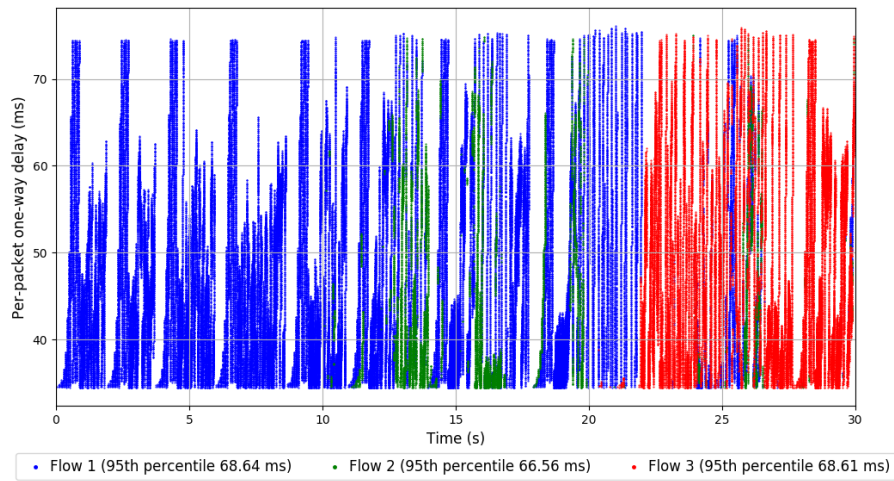
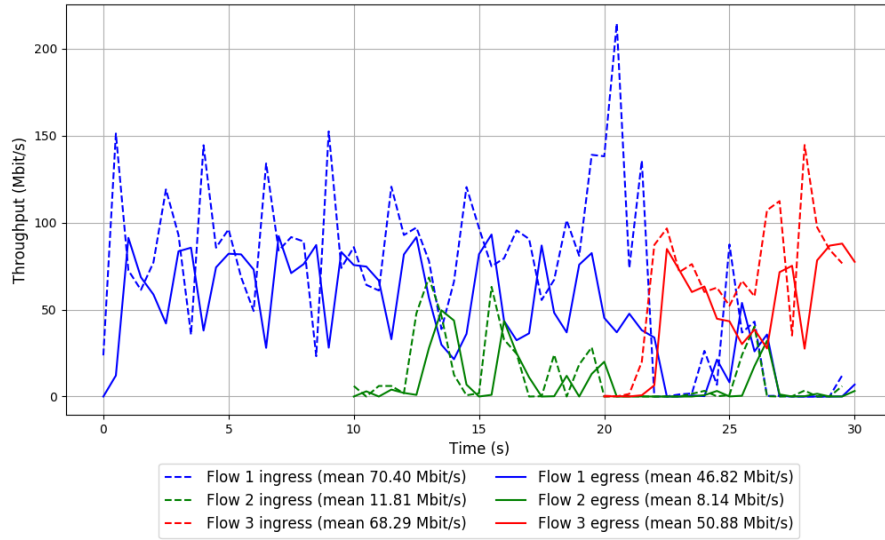
-- Flow 3:

Average throughput: 50.88 Mbit/s

95th percentile per-packet one-way delay: 68.609 ms

Loss rate: 25.41%

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



Run 4: Statistics of Verus

Start at: 2019-10-03 00:28:02

End at: 2019-10-03 00:28:32

Local clock offset: 5.537 ms

Remote clock offset: 3.786 ms

# Below is generated by plot.py at 2019-10-03 01:19:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 66.195 ms

Loss rate: 29.61%

-- Flow 1:

Average throughput: 49.26 Mbit/s

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

Loss rate: 23.88%

-- Flow 2:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 67.968 ms

Loss rate: 50.03%

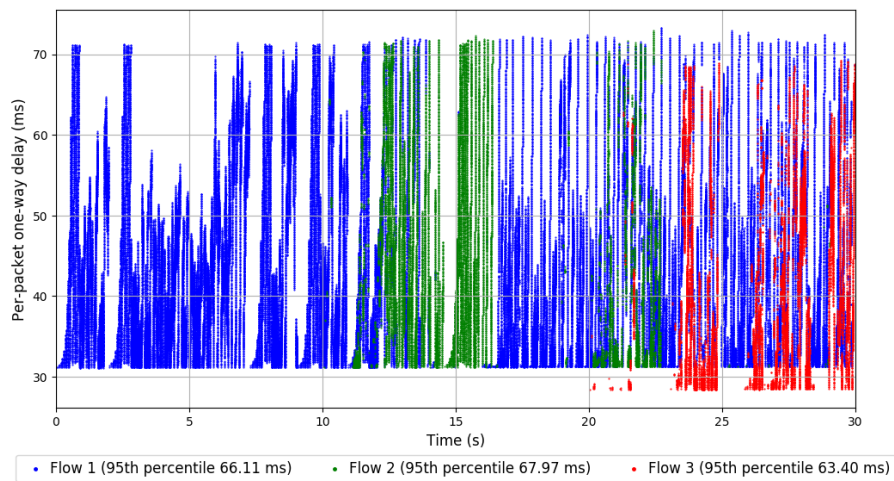
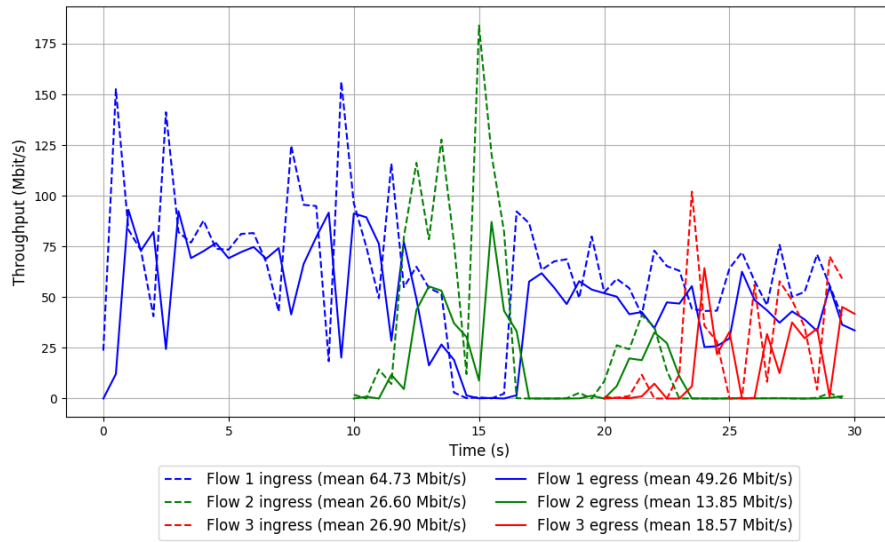
-- Flow 3:

Average throughput: 18.57 Mbit/s

95th percentile per-packet one-way delay: 63.395 ms

Loss rate: 30.78%

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



Run 5: Statistics of Verus

Start at: 2019-10-03 00:57:10

End at: 2019-10-03 00:57:40

Local clock offset: 7.58 ms

Remote clock offset: 2.985 ms

# Below is generated by plot.py at 2019-10-03 01:19:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.24 Mbit/s

95th percentile per-packet one-way delay: 68.709 ms

Loss rate: 52.35%

-- Flow 1:

Average throughput: 43.17 Mbit/s

95th percentile per-packet one-way delay: 67.827 ms

Loss rate: 24.78%

-- Flow 2:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 70.240 ms

Loss rate: 72.64%

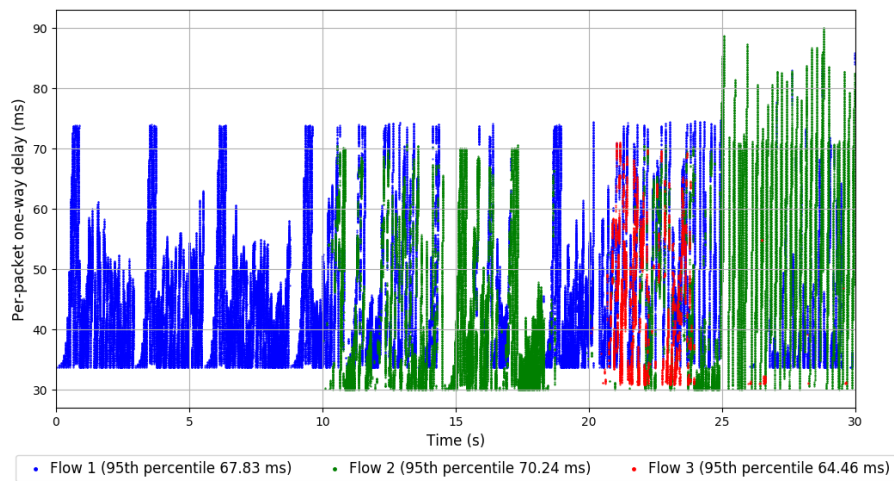
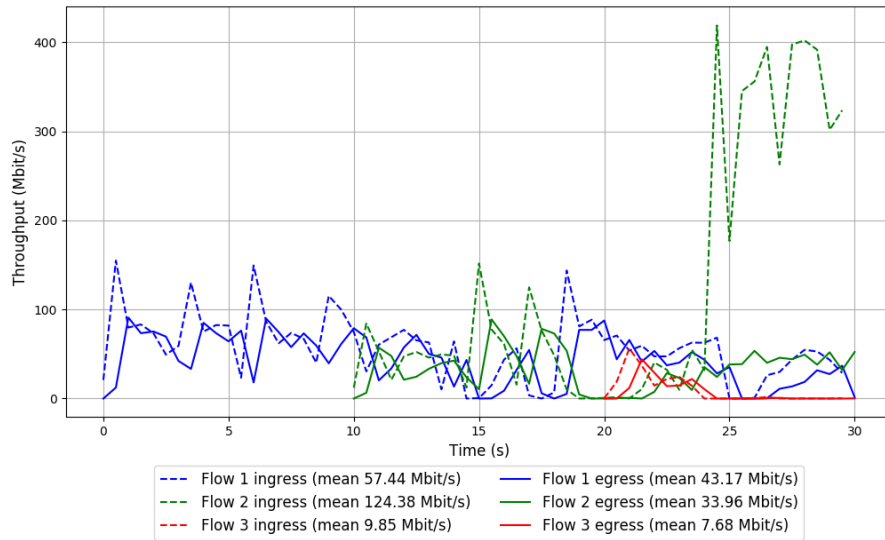
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 64.464 ms

Loss rate: 22.50%

### Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-10-02 22:46:38

End at: 2019-10-02 22:47:08

Local clock offset: 1.885 ms

Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2019-10-03 01:19:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.80 Mbit/s

95th percentile per-packet one-way delay: 45.407 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 49.249 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.22 Mbit/s

95th percentile per-packet one-way delay: 40.163 ms

Loss rate: 0.01%

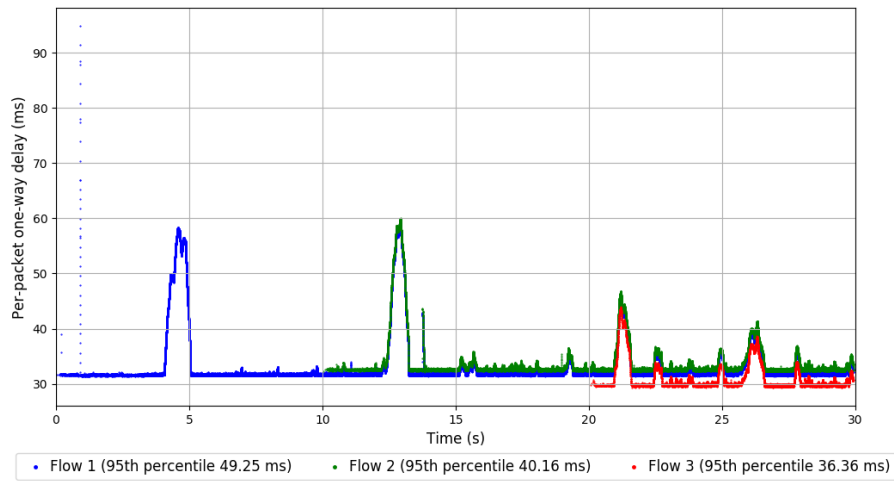
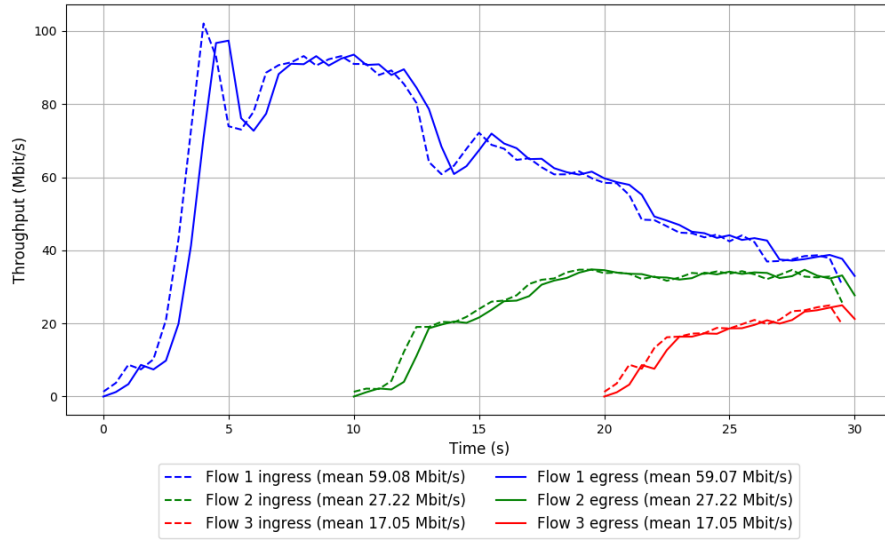
-- Flow 3:

Average throughput: 17.05 Mbit/s

95th percentile per-packet one-way delay: 36.363 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-02 23:16:05

End at: 2019-10-02 23:16:35

Local clock offset: 0.193 ms

Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-10-03 01:19:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 40.602 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 41.339 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.15 Mbit/s

95th percentile per-packet one-way delay: 37.454 ms

Loss rate: 0.00%

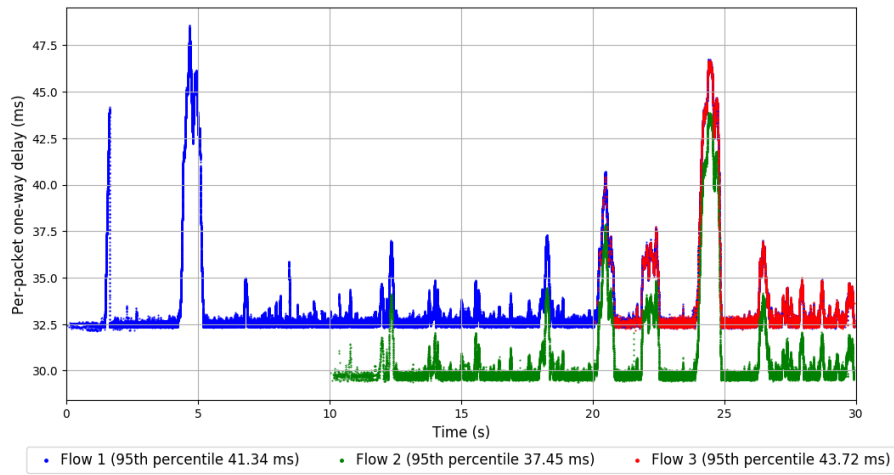
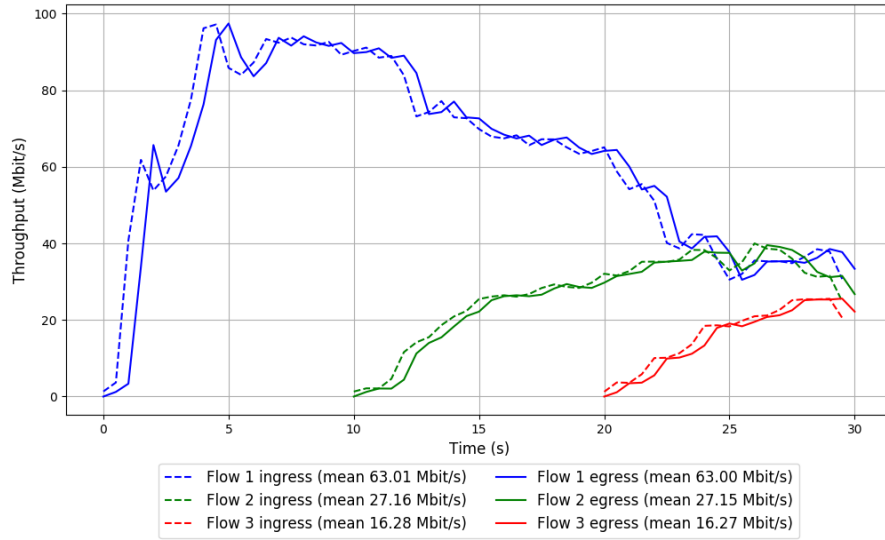
-- Flow 3:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 43.715 ms

Loss rate: 0.03%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-02 23:45:19

End at: 2019-10-02 23:45:49

Local clock offset: 2.778 ms

Remote clock offset: 1.657 ms

# Below is generated by plot.py at 2019-10-03 01:19:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 37.583 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 61.86 Mbit/s

95th percentile per-packet one-way delay: 39.734 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 33.00 Mbit/s

95th percentile per-packet one-way delay: 35.440 ms

Loss rate: 0.02%

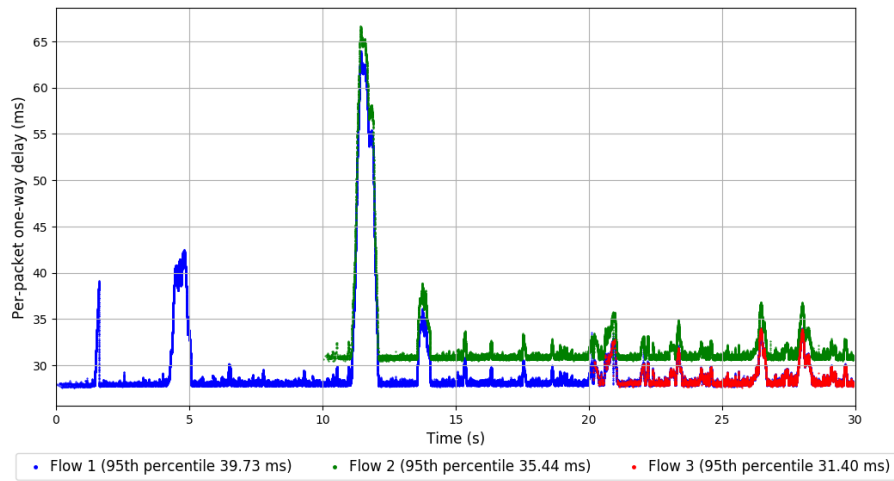
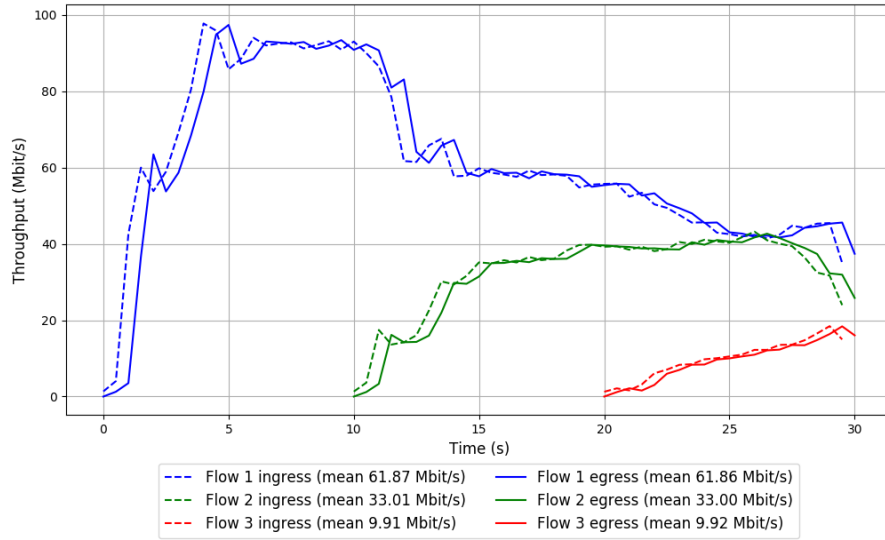
-- Flow 3:

Average throughput: 9.92 Mbit/s

95th percentile per-packet one-way delay: 31.401 ms

Loss rate: 0.00%

### Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 00:14:34

End at: 2019-10-03 00:15:04

Local clock offset: 3.955 ms

Remote clock offset: 2.019 ms

# Below is generated by plot.py at 2019-10-03 01:19:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.20 Mbit/s

95th percentile per-packet one-way delay: 40.847 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 42.331 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 36.361 ms

Loss rate: 0.00%

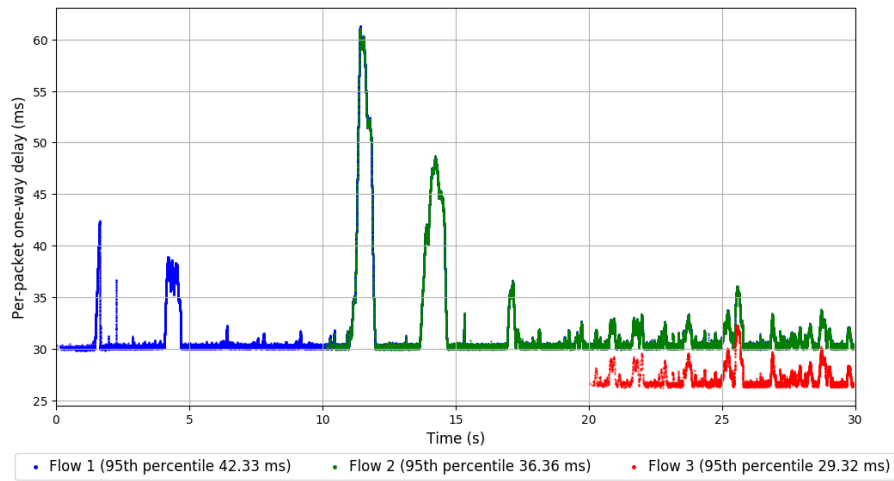
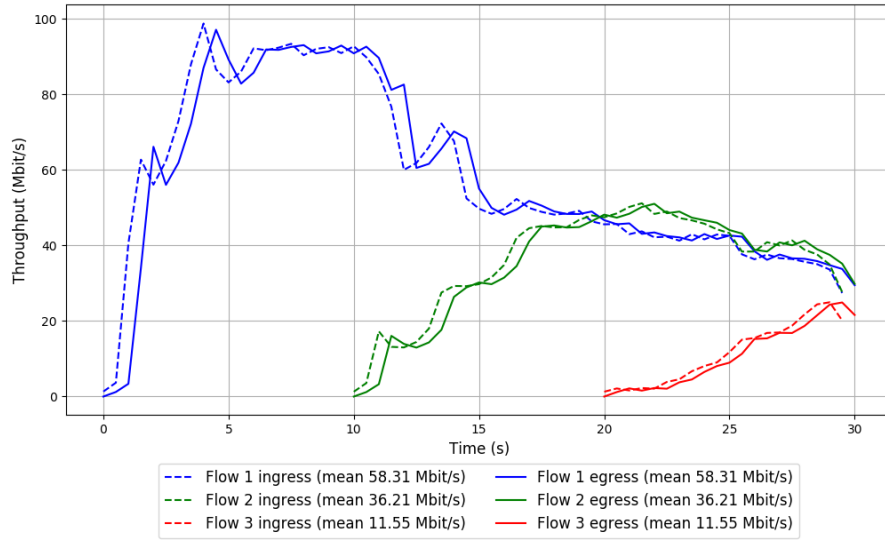
-- Flow 3:

Average throughput: 11.55 Mbit/s

95th percentile per-packet one-way delay: 29.316 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 00:43:50

End at: 2019-10-03 00:44:20

Local clock offset: 7.938 ms

Remote clock offset: 1.108 ms

# Below is generated by plot.py at 2019-10-03 01:19:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.77 Mbit/s

95th percentile per-packet one-way delay: 40.590 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.22 Mbit/s

95th percentile per-packet one-way delay: 40.218 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.29 Mbit/s

95th percentile per-packet one-way delay: 44.992 ms

Loss rate: 0.01%

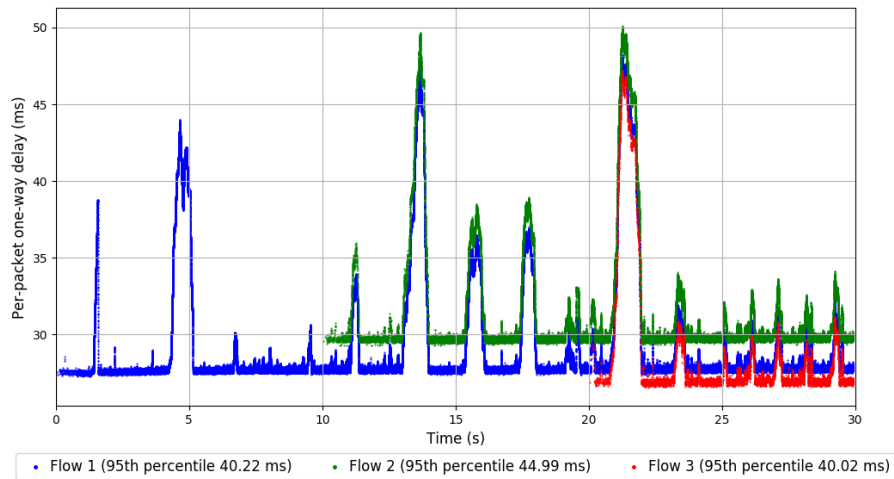
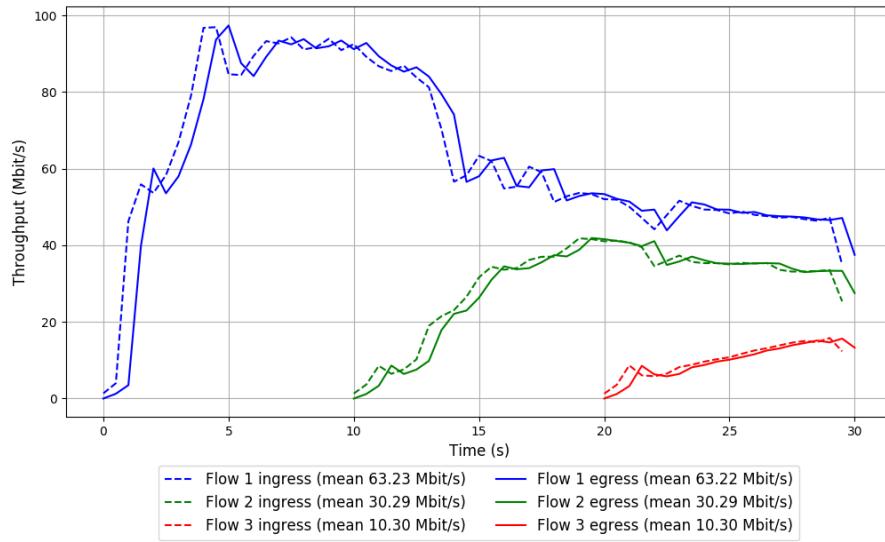
-- Flow 3:

Average throughput: 10.30 Mbit/s

95th percentile per-packet one-way delay: 40.024 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-02 23:04:52

End at: 2019-10-02 23:05:22

Local clock offset: 0.659 ms

Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2019-10-03 01:19:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 33.625 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 33.726 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 33.680 ms

Loss rate: 0.05%

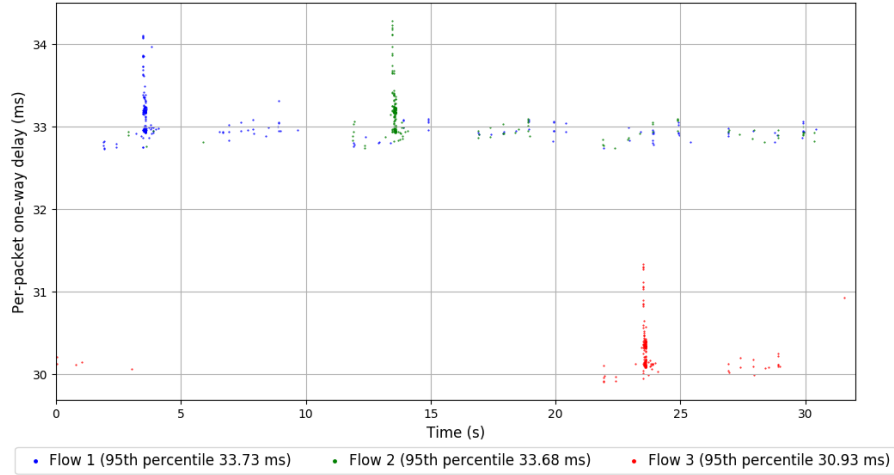
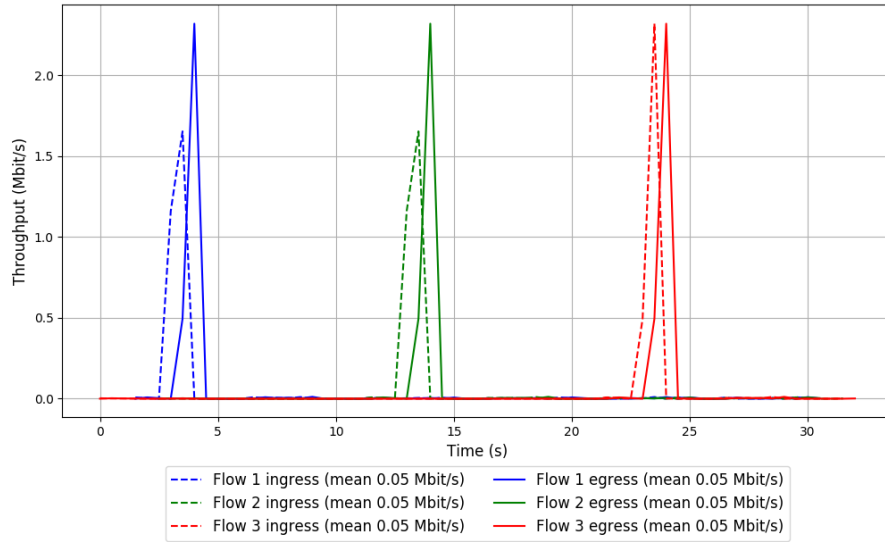
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.927 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-02 23:34:26

End at: 2019-10-02 23:34:56

Local clock offset: -1.232 ms

Remote clock offset: 0.635 ms

# Below is generated by plot.py at 2019-10-03 01:19:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 34.432 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.641 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 31.861 ms

Loss rate: 0.00%

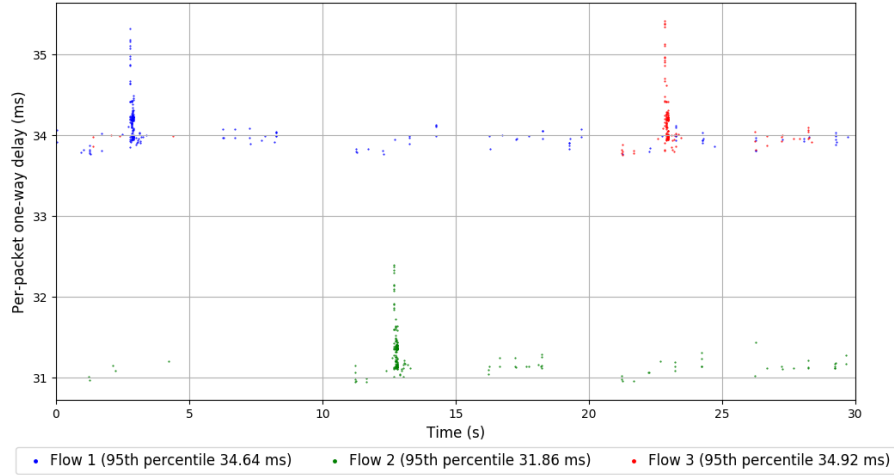
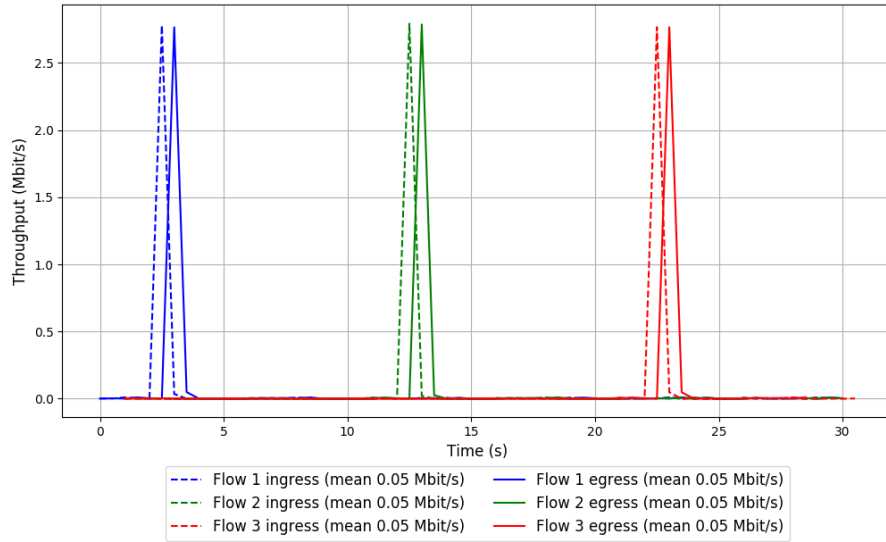
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 34.925 ms

Loss rate: 0.05%

## Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-10-03 00:03:34

End at: 2019-10-03 00:04:04

Local clock offset: -0.816 ms

Remote clock offset: 1.868 ms

# Below is generated by plot.py at 2019-10-03 01:19:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 32.558 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.794 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.824 ms

Loss rate: 0.00%

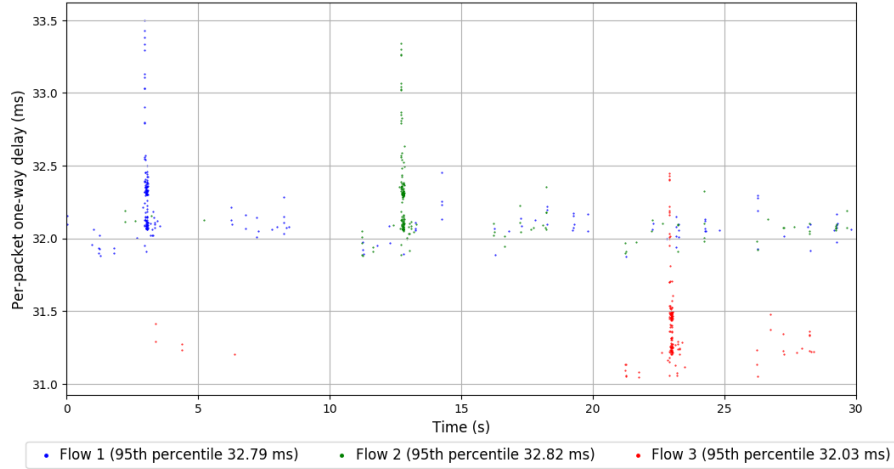
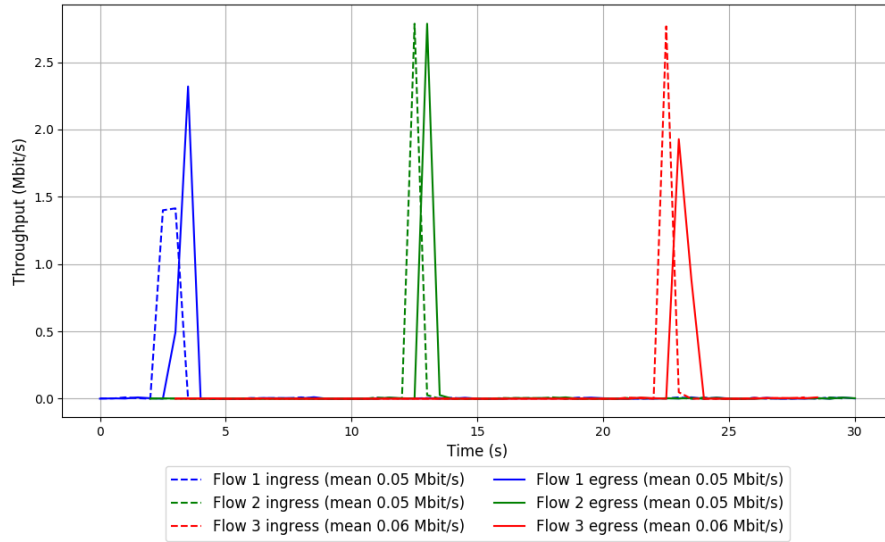
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 32.035 ms

Loss rate: 0.00%

### Run 3: Report of WebRTC media — Data Link





Run 4: Statistics of WebRTC media

Start at: 2019-10-03 00:32:56

End at: 2019-10-03 00:33:26

Local clock offset: 6.713 ms

Remote clock offset: 1.216 ms

# Below is generated by plot.py at 2019-10-03 01:19:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 30.220 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 29.773 ms

Loss rate: 0.00%

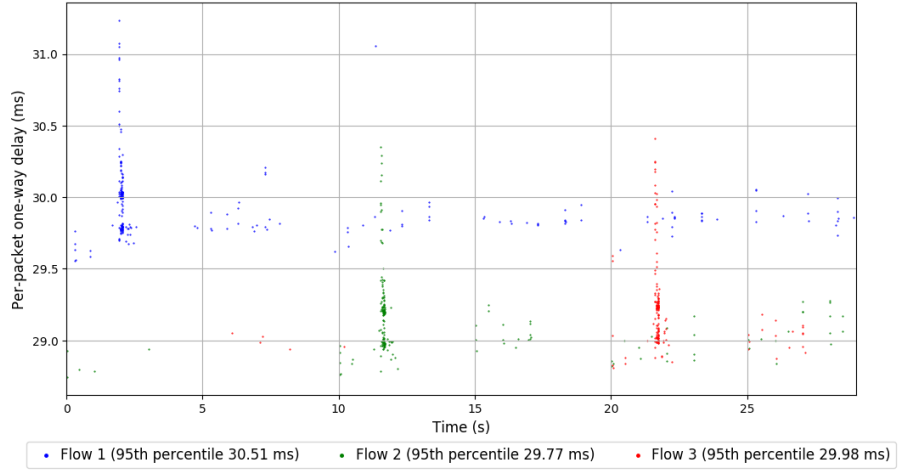
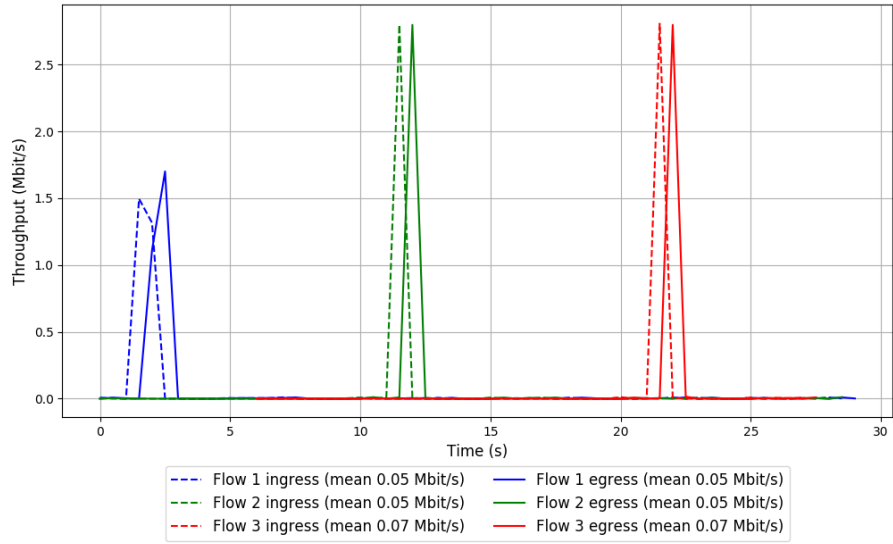
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 29.981 ms

Loss rate: 0.00%

### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 01:01:57

End at: 2019-10-03 01:02:27

Local clock offset: 5.829 ms

Remote clock offset: 2.292 ms

# Below is generated by plot.py at 2019-10-03 01:19:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 35.673 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 33.227 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 35.148 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 36.212 ms

Loss rate: 0.00%

### Run 5: Report of WebRTC media — Data Link

