

## Pantheon Report

Generated at 2019-11-24 09:44:54 (UTC).

Data path: AWS Brazil 1 on `ens5` (*local*) → Brazil on `p4p1` (*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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

### System info:

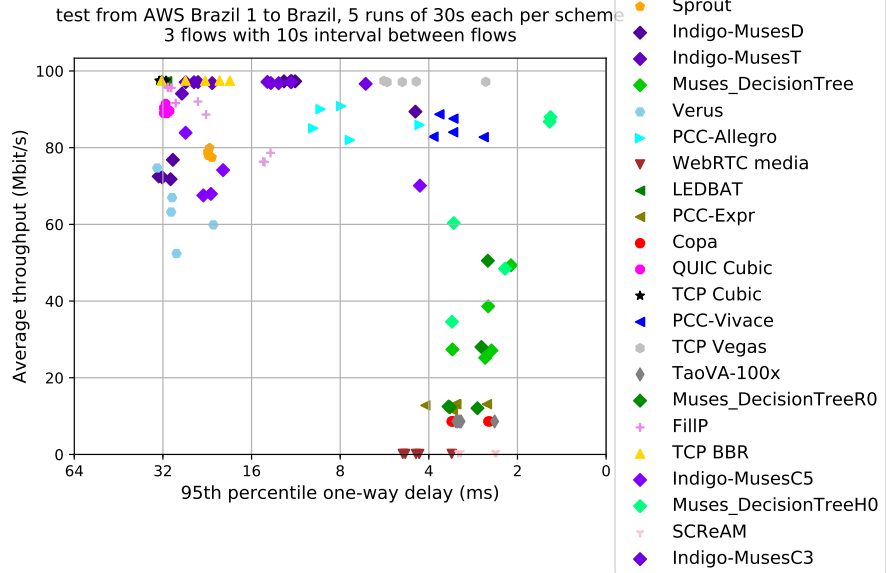
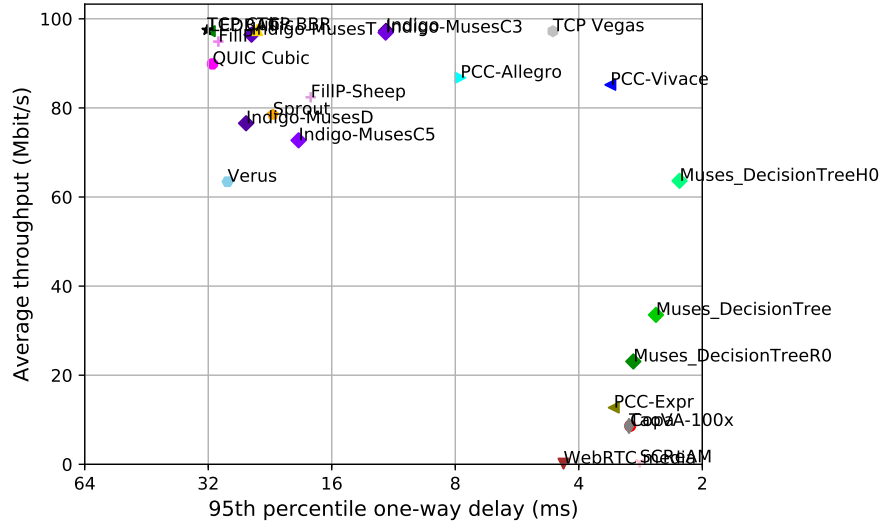
```
Linux 4.15.0-1051-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

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

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

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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	70.60	31.66	17.40	24.12	23.98	28.07	0.16	0.03	0.37
Copa	5	0.00	10.92	4.84	2.32	3.05	2.93	98.00	65.19	77.77
TCP Cubic	5	64.36	35.54	28.48	31.73	32.44	32.84	0.04	0.03	0.04
FillP	5	47.38	54.11	34.70	29.08	30.50	29.74	13.11	16.37	42.39
FillP-Sheep	5	49.11	33.07	34.07	14.90	19.34	22.32	0.85	1.01	3.63
Indigo	5	48.07	40.55	68.63	10.58	11.26	11.87	0.00	0.00	0.00
Indigo-MusesC3	5	59.41	37.74	44.32	12.14	11.46	8.85	0.00	0.00	0.00
Indigo-MusesC5	5	38.02	37.62	34.29	17.99	19.45	20.76	0.01	0.00	0.00
Indigo-MusesD	5	45.49	35.01	27.72	25.79	25.56	26.28	0.56	1.06	1.34
Indigo-MusesT	5	63.20	40.13	24.06	22.69	26.69	27.84	0.07	0.16	0.44
LEDBAT	5	59.96	40.27	31.55	31.74	31.58	31.61	0.04	0.07	0.10
Muses_DecisionTree	5	17.35	18.99	11.04	2.04	2.08	2.42	0.00	0.00	0.00
Muses_DecisionTreeH0	5	35.67	26.04	32.87	2.29	2.29	2.41	0.00	0.00	0.00
Muses_DecisionTreeR0	5	14.07	5.67	16.12	2.73	3.02	2.88	0.00	0.00	0.00
PCC-Allegro	5	71.82	13.39	18.33	6.20	10.13	12.76	0.00	0.00	0.02
PCC-Expr	5	7.71	5.60	3.90	3.90	3.48	2.54	27.18	25.60	29.59
QUIC Cubic	5	56.00	35.73	30.71	30.72	30.93	31.49	0.15	0.19	0.25
SCReAM	5	0.22	0.22	0.22	1.92	2.23	2.24	0.00	0.00	0.00
Sprout	5	42.82	37.36	32.73	20.66	22.77	23.58	0.00	0.00	0.00
TaoVA-100x	5	0.00	8.17	9.57	1.54	2.40	3.06	95.92	83.81	85.06
TCP Vegas	5	47.19	46.26	57.79	4.85	4.30	4.43	0.00	0.00	0.00
Verus	5	32.77	33.03	26.22	25.66	29.38	32.59	5.58	7.09	12.50
PCC-Vivace	5	53.42	33.15	29.43	2.35	2.78	4.68	0.00	0.00	0.00
WebRTC media	5	0.05	0.06	0.06	4.22	4.19	4.58	0.00	0.00	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-11-24 07:27:41

End at: 2019-11-24 07:28:11

Local clock offset: -7.339 ms

Remote clock offset: 0.623 ms

# Below is generated by plot.py at 2019-11-24 09:33:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 18.953 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.52 Mbit/s

95th percentile per-packet one-way delay: 18.361 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.95 Mbit/s

95th percentile per-packet one-way delay: 19.352 ms

Loss rate: 0.00%

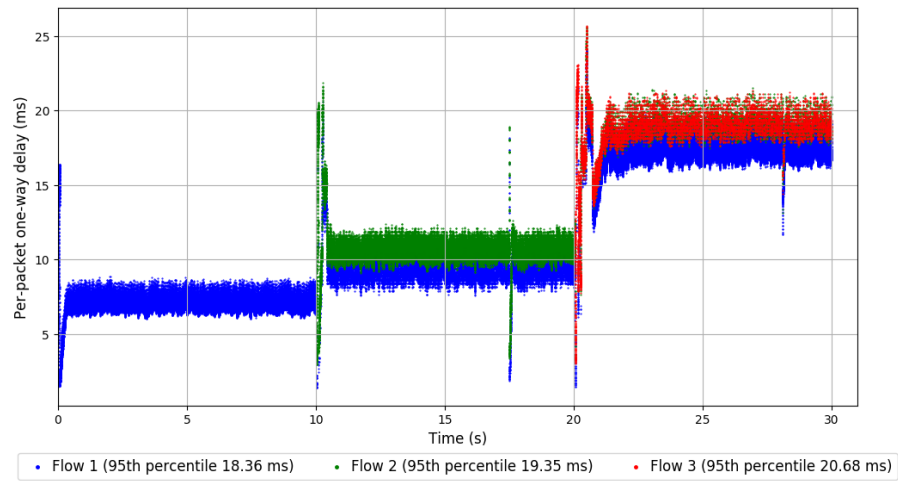
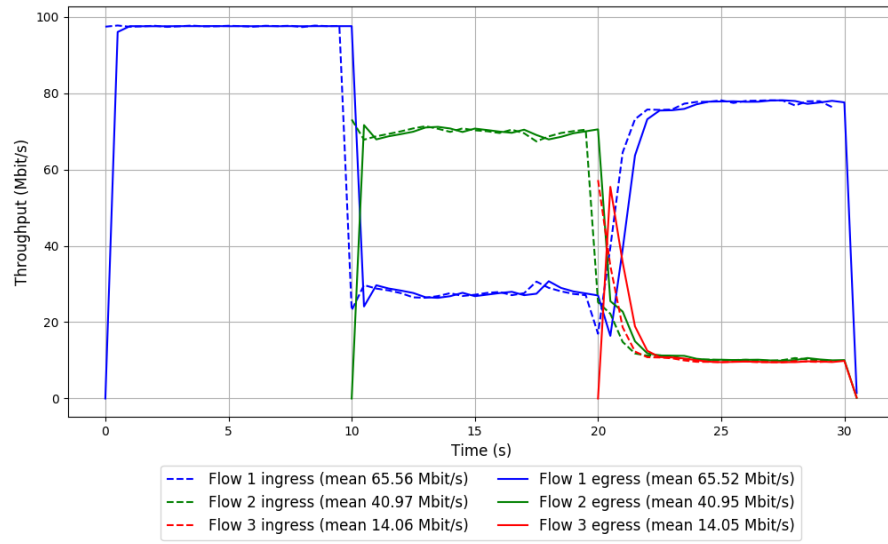
-- Flow 3:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 20.680 ms

Loss rate: 0.00%

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



Run 2: Statistics of TCP BBR

Start at: 2019-11-24 07:54:53

End at: 2019-11-24 07:55:23

Local clock offset: -7.402 ms

Remote clock offset: 0.754 ms

# Below is generated by plot.py at 2019-11-24 09:33:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 20.545 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.38 Mbit/s

95th percentile per-packet one-way delay: 20.496 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 20.098 ms

Loss rate: 0.00%

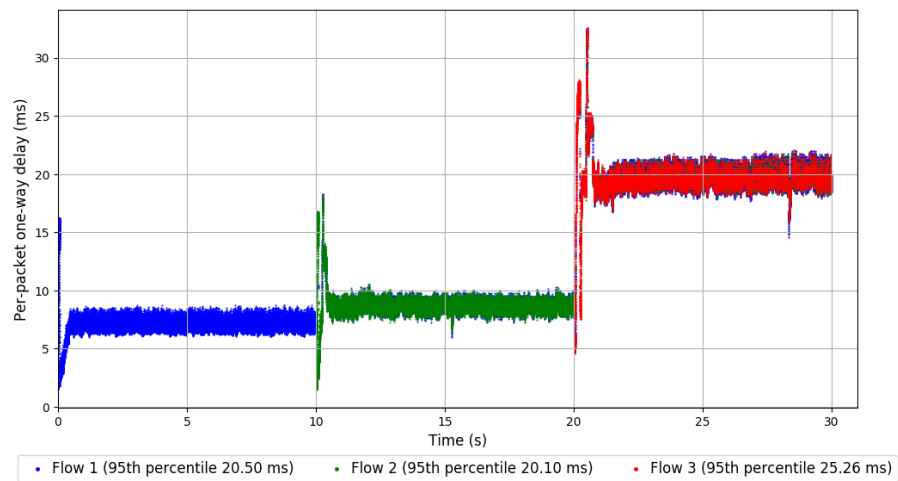
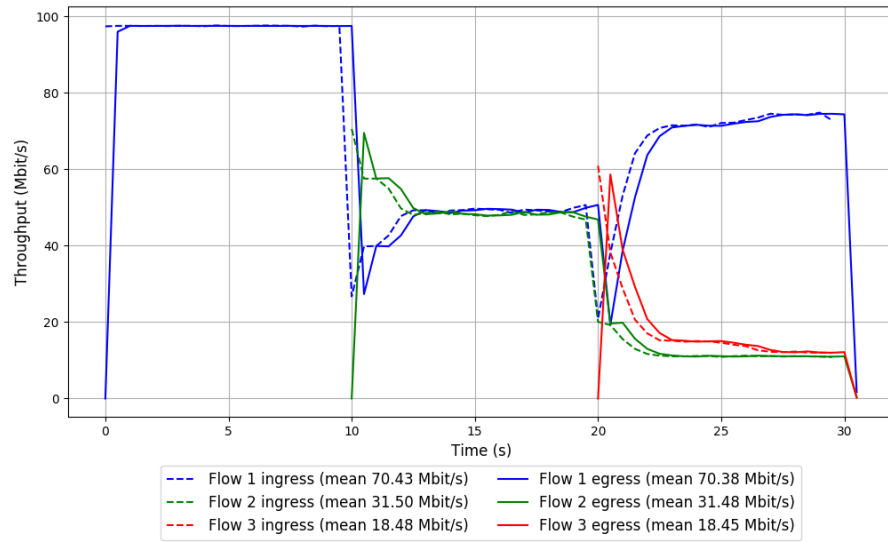
-- Flow 3:

Average throughput: 18.45 Mbit/s

95th percentile per-packet one-way delay: 25.258 ms

Loss rate: 0.08%

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



Run 3: Statistics of TCP BBR

Start at: 2019-11-24 08:22:03

End at: 2019-11-24 08:22:33

Local clock offset: -7.222 ms

Remote clock offset: 0.686 ms

# Below is generated by plot.py at 2019-11-24 09:33:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 26.816 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 74.92 Mbit/s

95th percentile per-packet one-way delay: 26.661 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 25.85 Mbit/s

95th percentile per-packet one-way delay: 26.354 ms

Loss rate: 0.00%

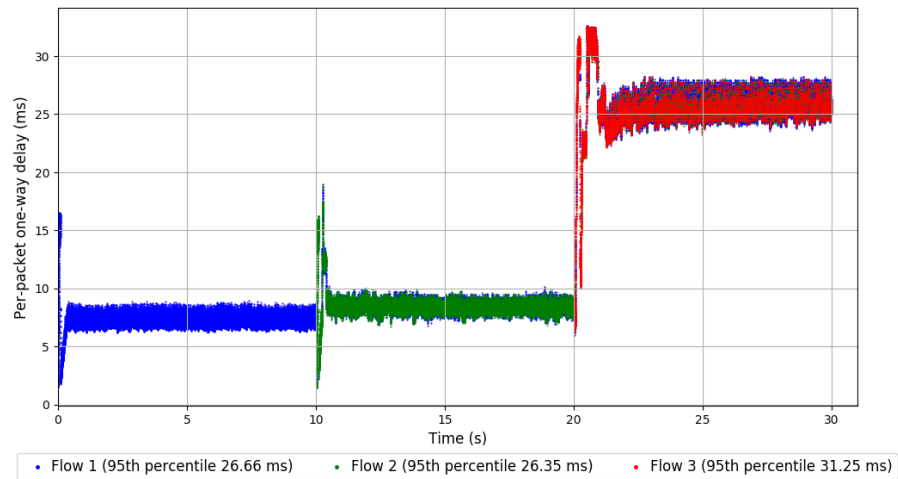
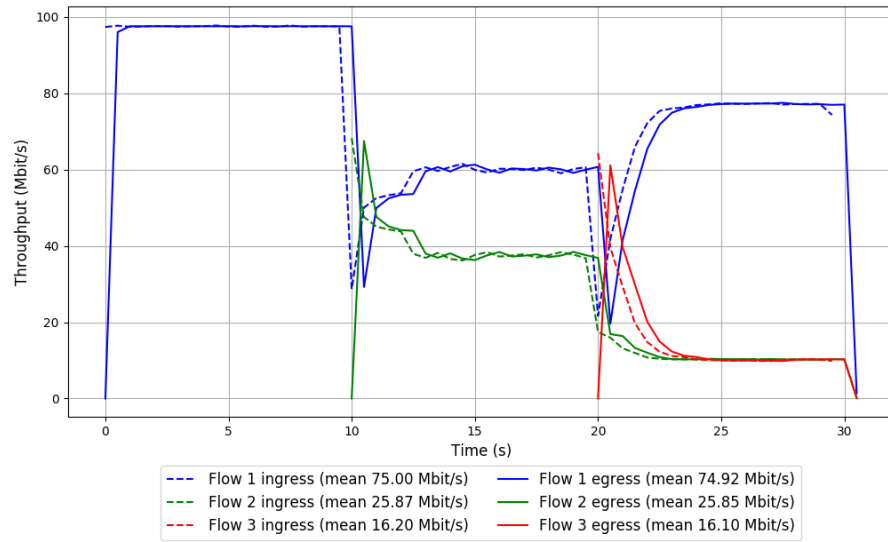
-- Flow 3:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 31.248 ms

Loss rate: 0.42%

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



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 08:49:12

End at: 2019-11-24 08:49:42

Local clock offset: -5.729 ms

Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-11-24 09:33:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

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

Loss rate: 0.67%

-- Flow 1:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 32.306 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 27.76 Mbit/s

95th percentile per-packet one-way delay: 31.172 ms

Loss rate: 0.16%

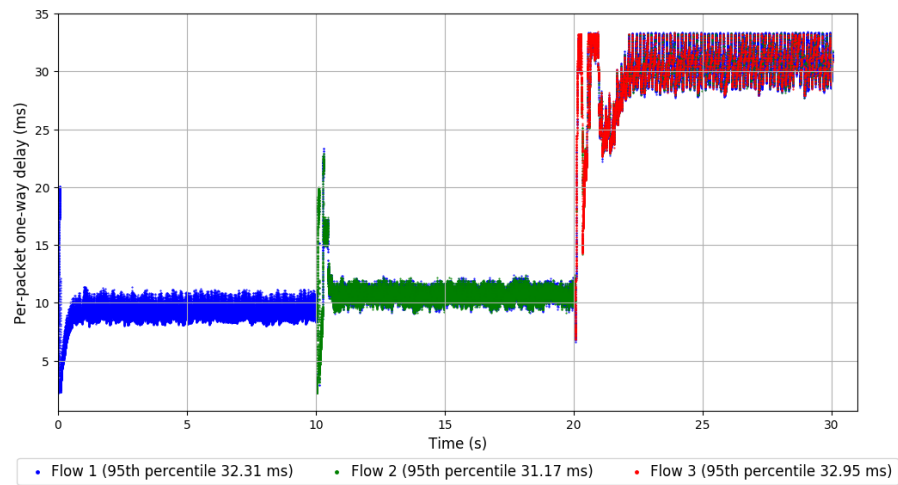
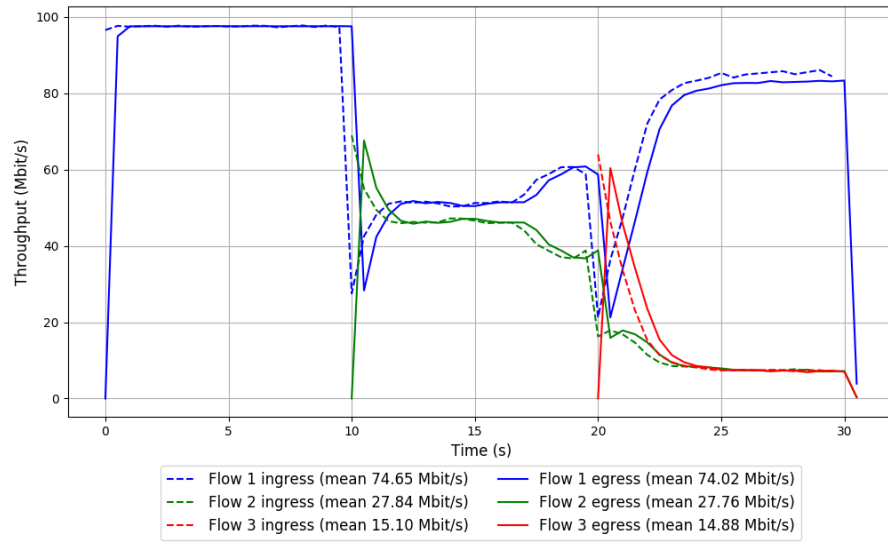
-- Flow 3:

Average throughput: 14.88 Mbit/s

95th percentile per-packet one-way delay: 32.952 ms

Loss rate: 1.25%

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





Run 5: Statistics of TCP BBR

Start at: 2019-11-24 09:16:31

End at: 2019-11-24 09:17:01

Local clock offset: -5.456 ms

Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2019-11-24 09:33:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 22.996 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 68.17 Mbit/s

95th percentile per-packet one-way delay: 22.801 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 22.905 ms

Loss rate: 0.01%

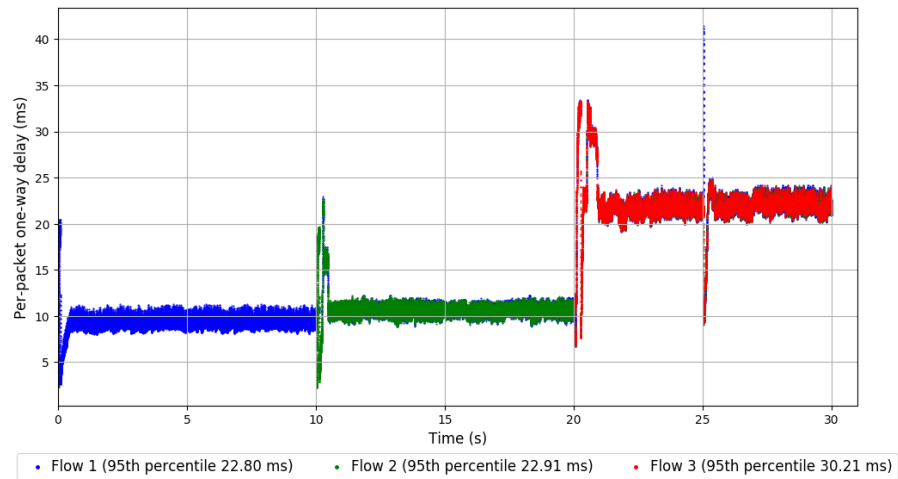
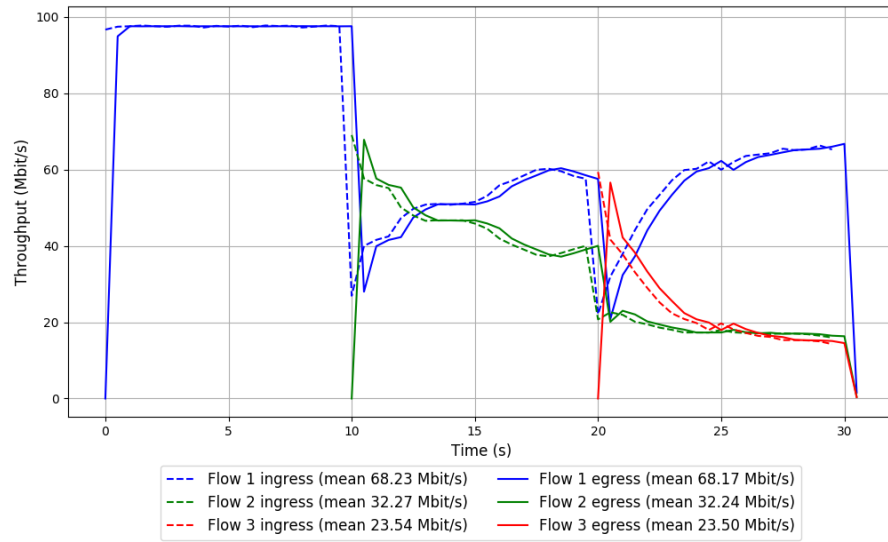
-- Flow 3:

Average throughput: 23.50 Mbit/s

95th percentile per-packet one-way delay: 30.206 ms

Loss rate: 0.08%

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



Run 1: Statistics of Copa

Start at: 2019-11-24 07:37:59

End at: 2019-11-24 07:38:29

Local clock offset: -7.523 ms

Remote clock offset: 0.801 ms

# Below is generated by plot.py at 2019-11-24 09:33:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.311 ms

Loss rate: 66.58%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 3.239 ms

Loss rate: 97.92%

-- Flow 2:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 3.323 ms

Loss rate: 65.29%

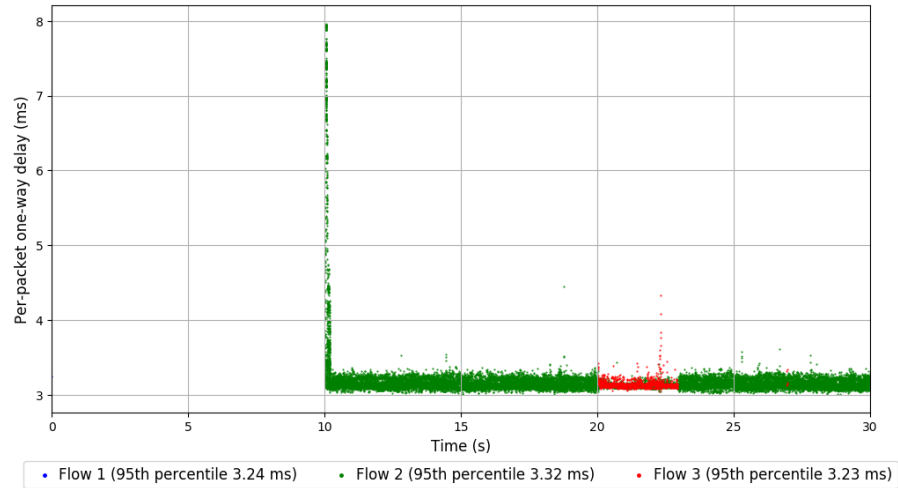
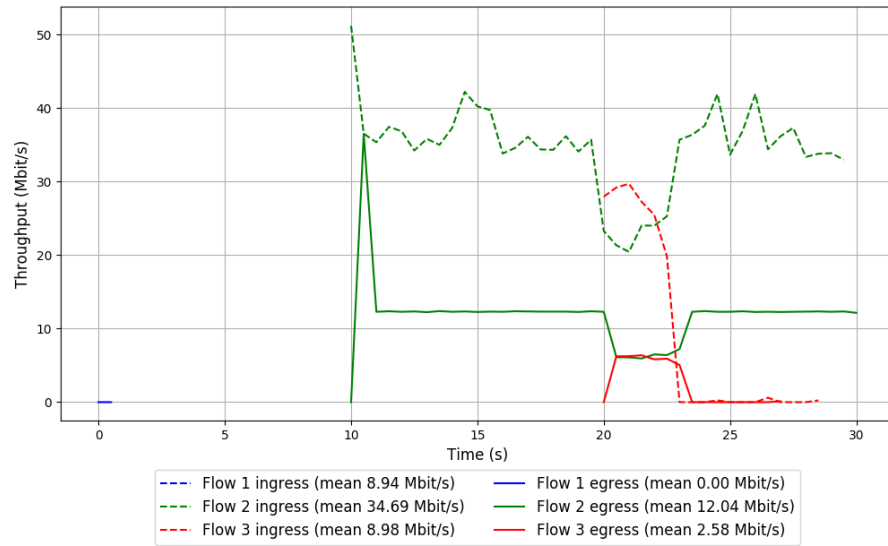
-- Flow 3:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 3.232 ms

Loss rate: 77.72%

## Run 1: Report of Copa — Data Link

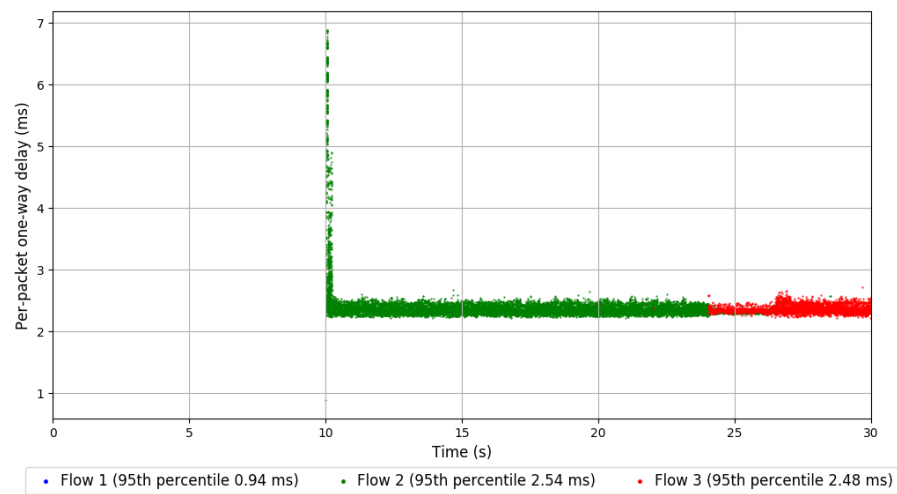
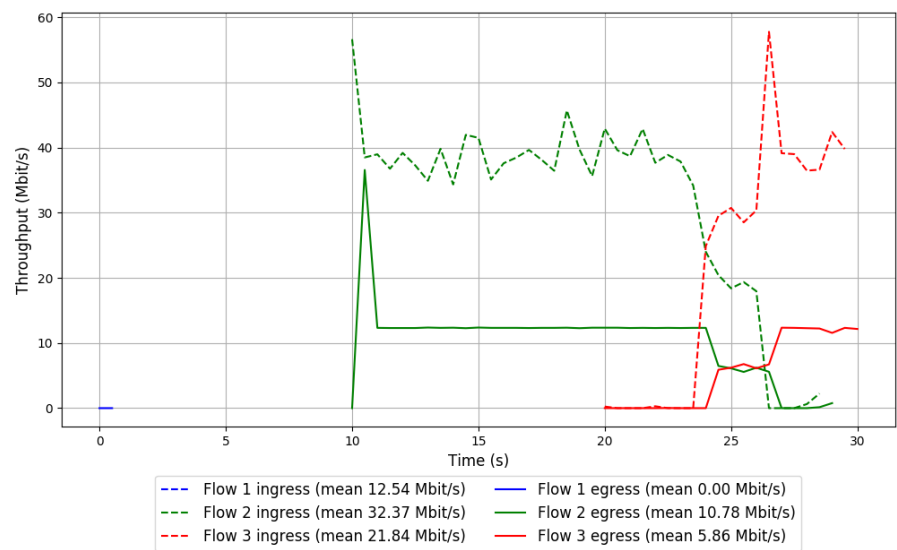


Run 2: Statistics of Copa

Start at: 2019-11-24 08:05:11  
End at: 2019-11-24 08:05:41  
Local clock offset: -6.652 ms  
Remote clock offset: 0.675 ms

# Below is generated by plot.py at 2019-11-24 09:33:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 2.512 ms  
Loss rate: 68.43%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 0.938 ms  
Loss rate: 97.92%  
-- Flow 2:  
Average throughput: 10.78 Mbit/s  
95th percentile per-packet one-way delay: 2.544 ms  
Loss rate: 66.71%  
-- Flow 3:  
Average throughput: 5.86 Mbit/s  
95th percentile per-packet one-way delay: 2.479 ms  
Loss rate: 73.16%

Run 2: Report of Copa — Data Link

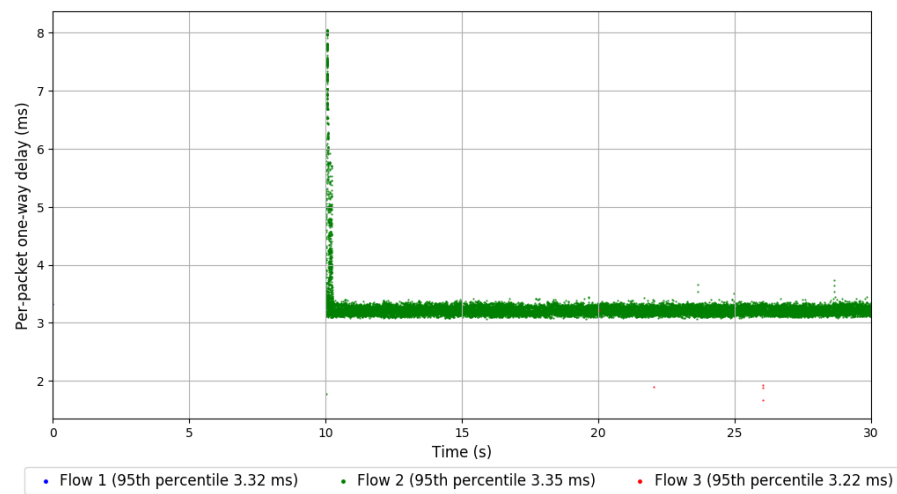
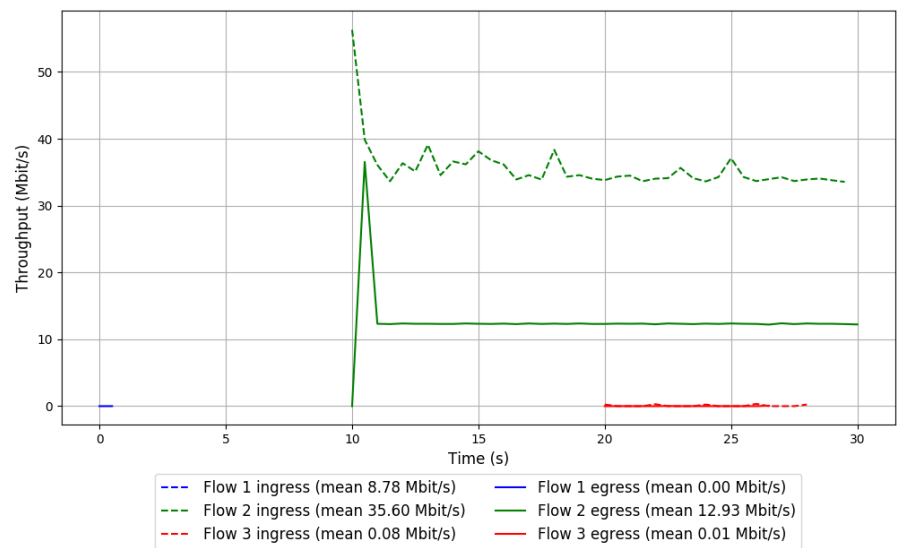


Run 3: Statistics of Copa

Start at: 2019-11-24 08:32:20  
End at: 2019-11-24 08:32:50  
Local clock offset: -7.259 ms  
Remote clock offset: 0.722 ms

# Below is generated by plot.py at 2019-11-24 09:33:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 3.346 ms  
Loss rate: 63.70%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 3.324 ms  
Loss rate: 97.92%  
-- Flow 2:  
Average throughput: 12.93 Mbit/s  
95th percentile per-packet one-way delay: 3.346 ms  
Loss rate: 63.67%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 3.218 ms  
Loss rate: 92.72%

Run 3: Report of Copa — Data Link



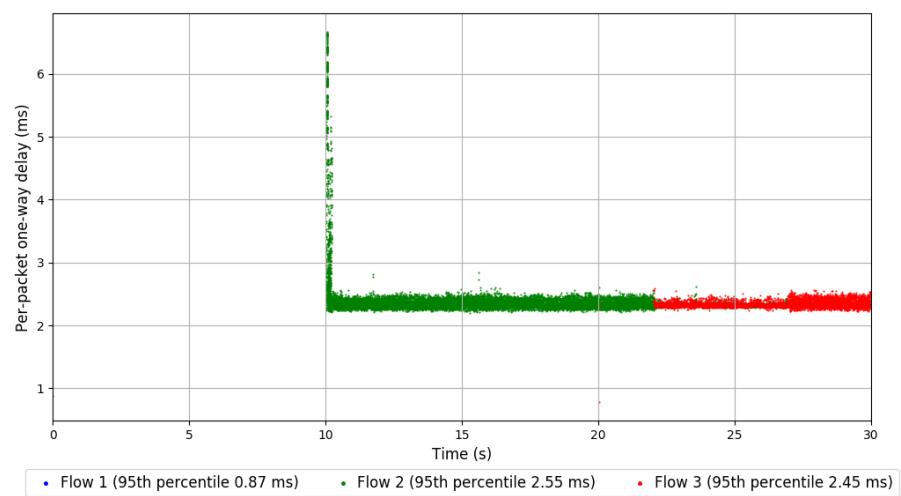
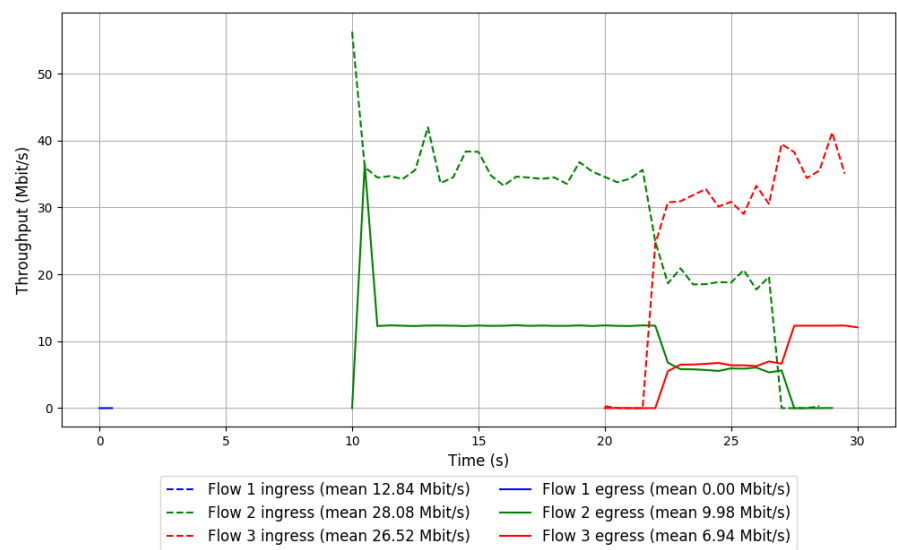


Run 4: Statistics of Copa

Start at: 2019-11-24 08:59:30  
End at: 2019-11-24 09:00:00  
Local clock offset: -5.403 ms  
Remote clock offset: 0.537 ms

```
# Below is generated by plot.py at 2019-11-24 09:33:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.483 ms
Loss rate: 67.57%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 0.870 ms
Loss rate: 97.92%
-- Flow 2:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 2.546 ms
Loss rate: 64.47%
-- Flow 3:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 73.83%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-24 09:26:49

End at: 2019-11-24 09:27:19

Local clock offset: -6.315 ms

Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2019-11-24 09:33:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.338 ms

Loss rate: 67.79%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 3.249 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 3.511 ms

Loss rate: 65.82%

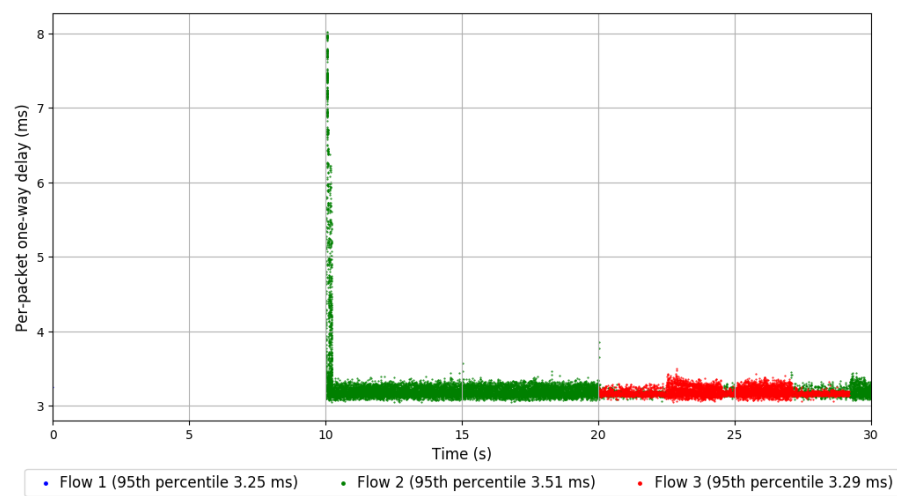
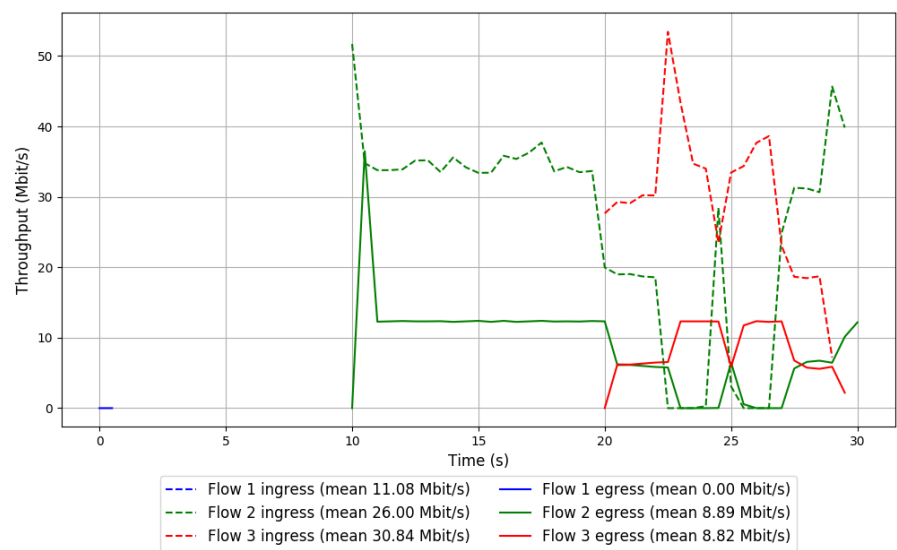
-- Flow 3:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 3.295 ms

Loss rate: 71.41%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 07:20:54

End at: 2019-11-24 07:21:24

Local clock offset: -7.145 ms

Remote clock offset: 0.672 ms

# Below is generated by plot.py at 2019-11-24 09:33:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.927 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.94 Mbit/s

95th percentile per-packet one-way delay: 31.728 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 33.446 ms

Loss rate: 0.04%

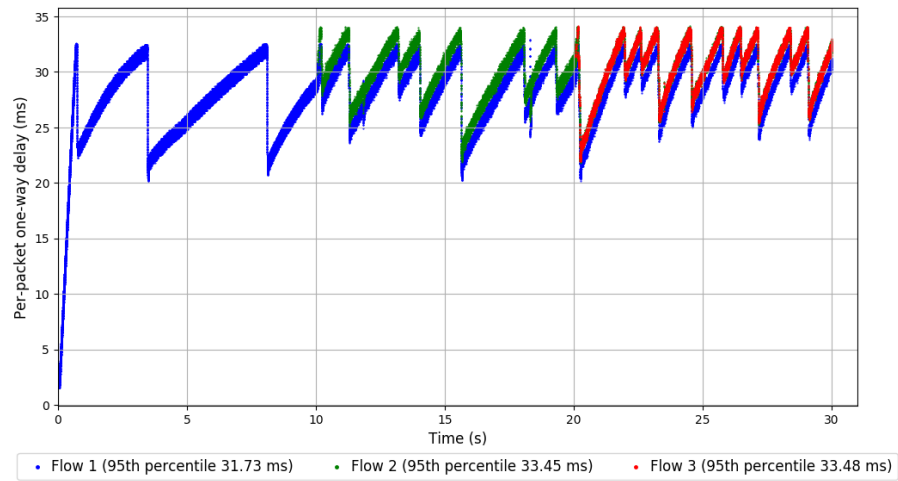
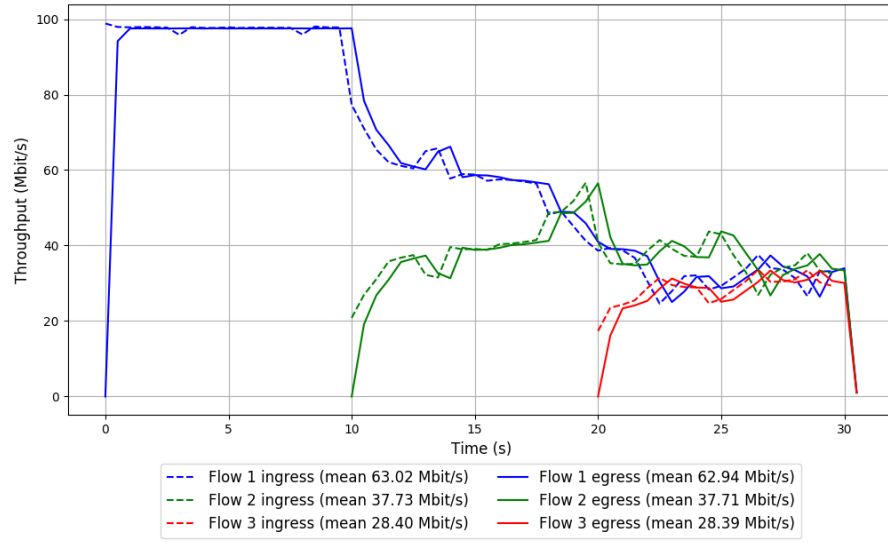
-- Flow 3:

Average throughput: 28.39 Mbit/s

95th percentile per-packet one-way delay: 33.478 ms

Loss rate: 0.04%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 07:48:07

End at: 2019-11-24 07:48:37

Local clock offset: -6.625 ms

Remote clock offset: 0.852 ms

# Below is generated by plot.py at 2019-11-24 09:34:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 31.228 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 61.85 Mbit/s

95th percentile per-packet one-way delay: 30.985 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 31.027 ms

Loss rate: 0.02%

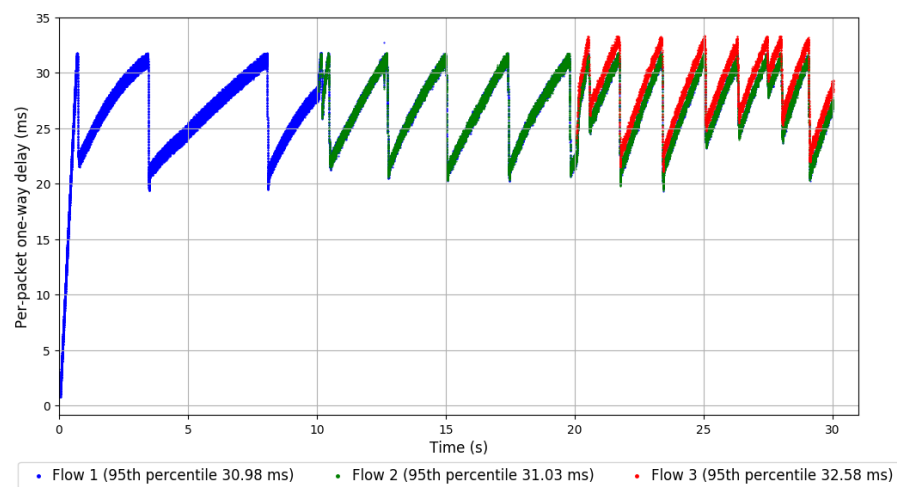
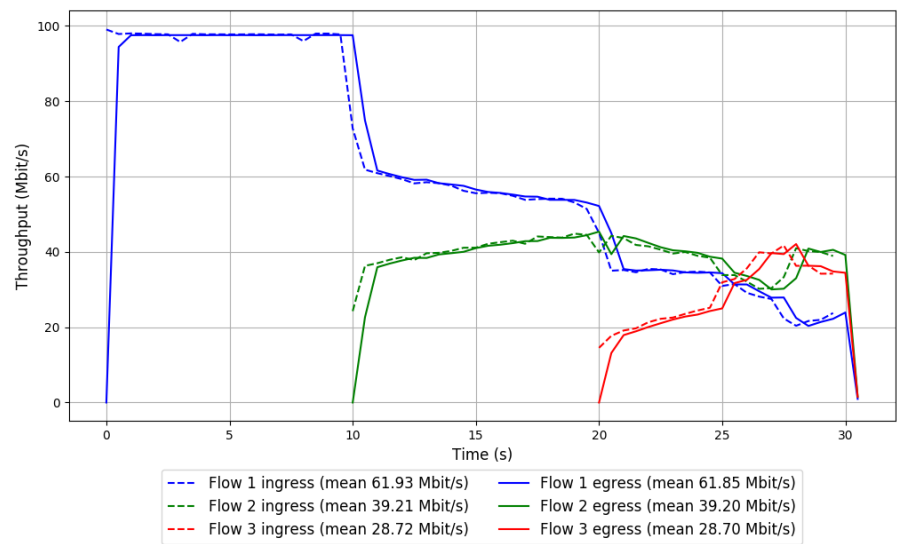
-- Flow 3:

Average throughput: 28.70 Mbit/s

95th percentile per-packet one-way delay: 32.582 ms

Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 08:15:17

End at: 2019-11-24 08:15:47

Local clock offset: -7.339 ms

Remote clock offset: 0.702 ms

# Below is generated by plot.py at 2019-11-24 09:34:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.336 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 66.82 Mbit/s

95th percentile per-packet one-way delay: 31.758 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 33.347 ms

Loss rate: 0.03%

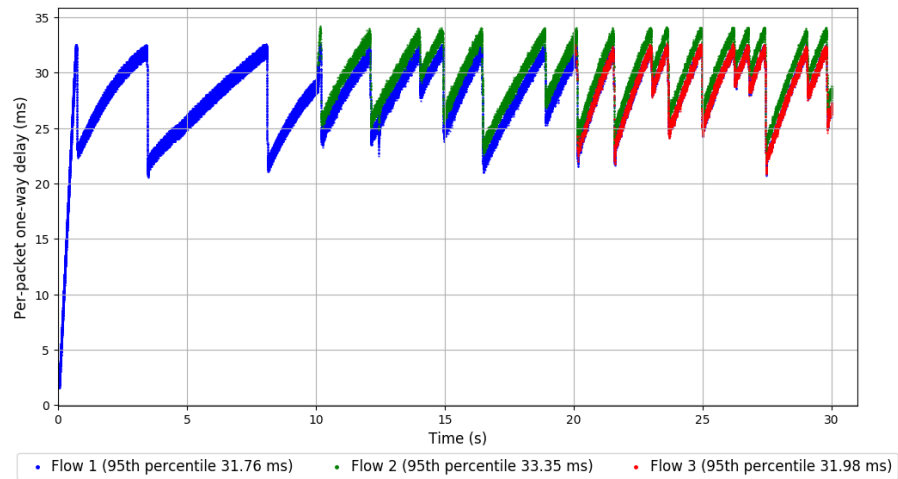
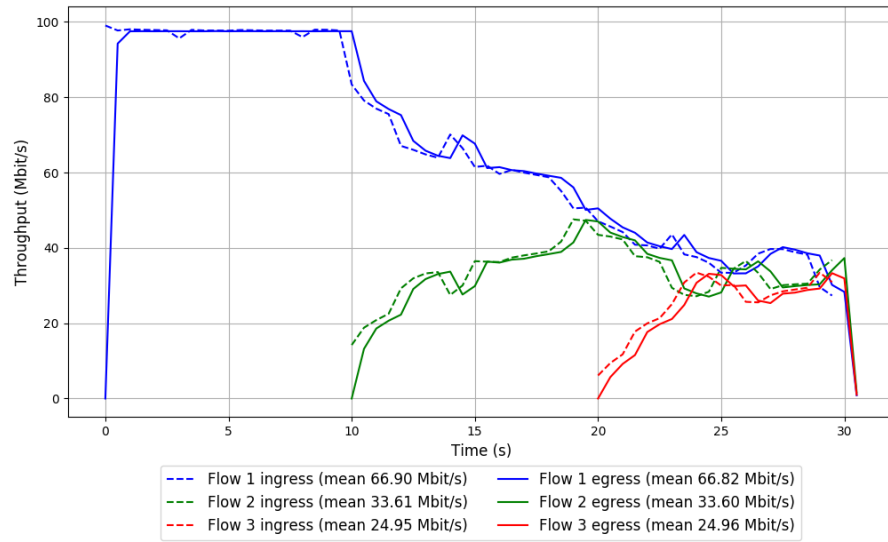
-- Flow 3:

Average throughput: 24.96 Mbit/s

95th percentile per-packet one-way delay: 31.982 ms

Loss rate: 0.03%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 08:42:26

End at: 2019-11-24 08:42:56

Local clock offset: -6.91 ms

Remote clock offset: 0.69 ms

# Below is generated by plot.py at 2019-11-24 09:34:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.068 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 65.61 Mbit/s

95th percentile per-packet one-way delay: 31.760 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 31.821 ms

Loss rate: 0.02%

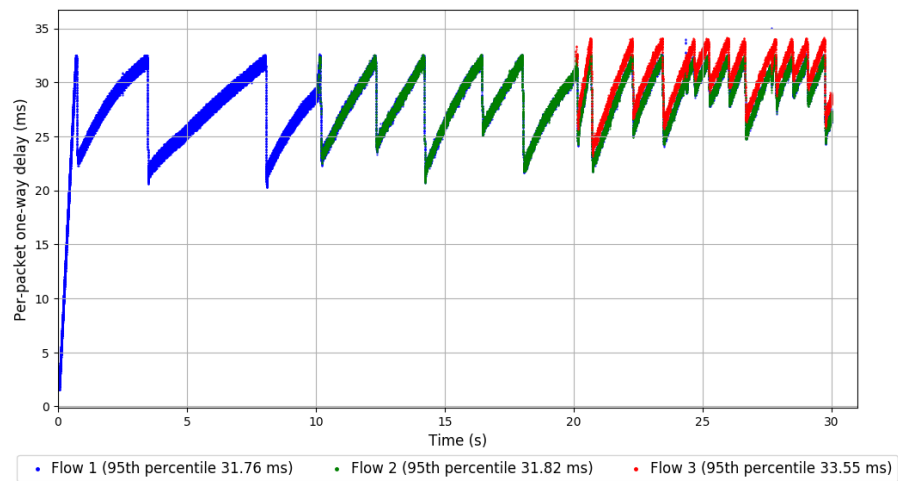
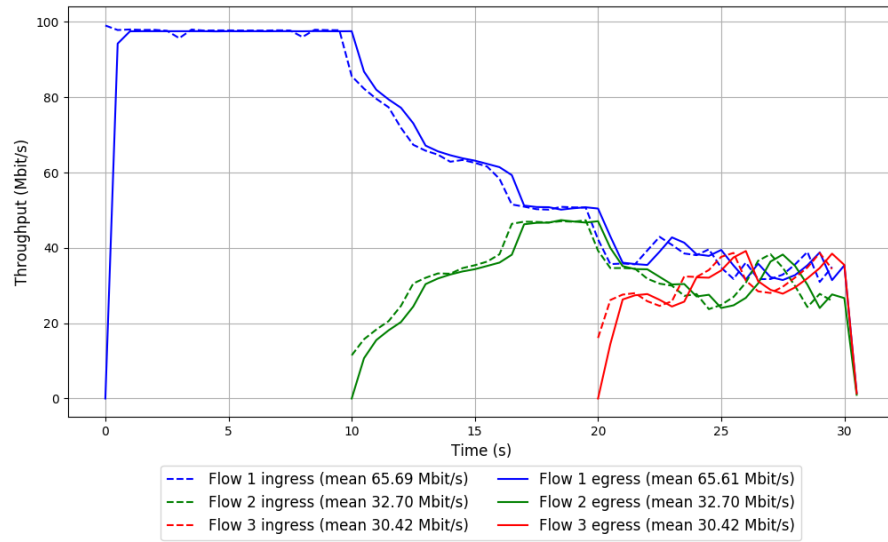
-- Flow 3:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 33.548 ms

Loss rate: 0.04%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

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

Local clock offset: -5.239 ms

Remote clock offset: 0.49 ms

# Below is generated by plot.py at 2019-11-24 09:34:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.440 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 64.56 Mbit/s

95th percentile per-packet one-way delay: 32.410 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 32.543 ms

Loss rate: 0.03%

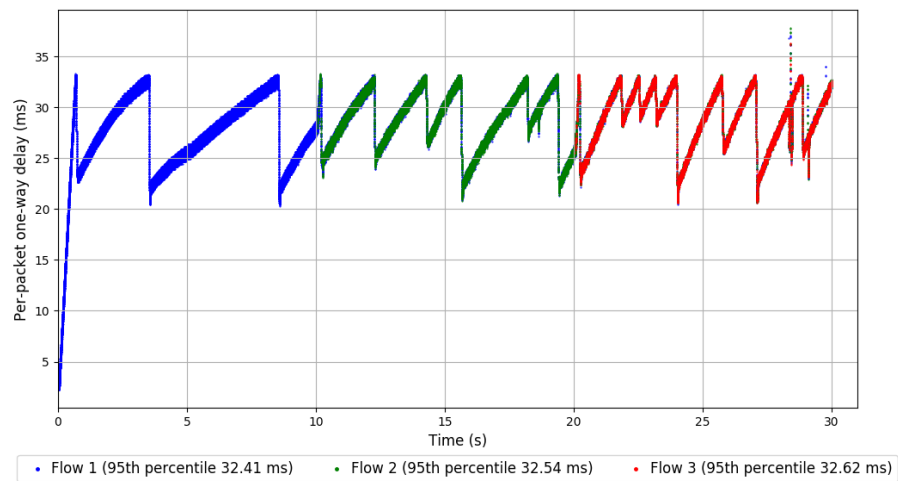
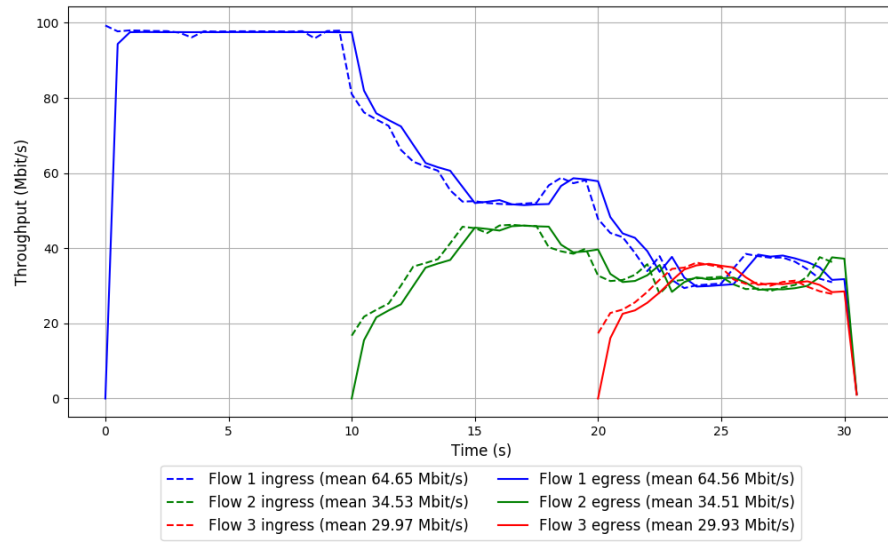
-- Flow 3:

Average throughput: 29.93 Mbit/s

95th percentile per-packet one-way delay: 32.615 ms

Loss rate: 0.05%

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

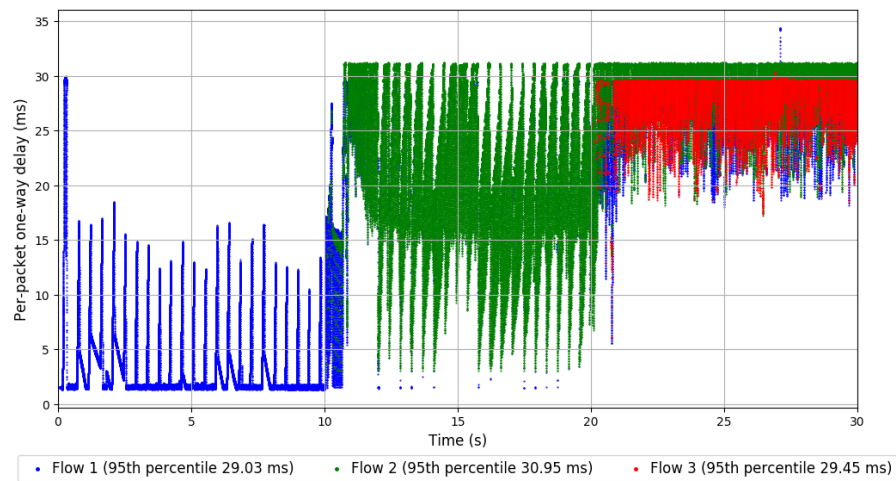
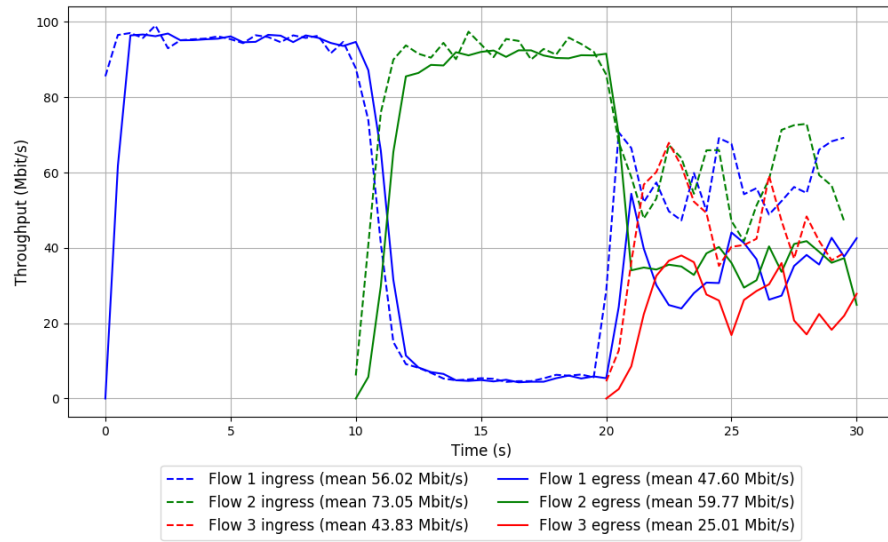


```
Run 1: Statistics of FillP

Start at: 2019-11-24 07:34:33
End at: 2019-11-24 07:35:03
Local clock offset: -7.479 ms
Remote clock offset: 0.74 ms

# Below is generated by plot.py at 2019-11-24 09:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 30.669 ms
Loss rate: 19.63%
-- Flow 1:
Average throughput: 47.60 Mbit/s
95th percentile per-packet one-way delay: 29.029 ms
Loss rate: 14.95%
-- Flow 2:
Average throughput: 59.77 Mbit/s
95th percentile per-packet one-way delay: 30.949 ms
Loss rate: 18.07%
-- Flow 3:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 29.450 ms
Loss rate: 42.88%
```

# Run 1: Report of FillP — Data Link



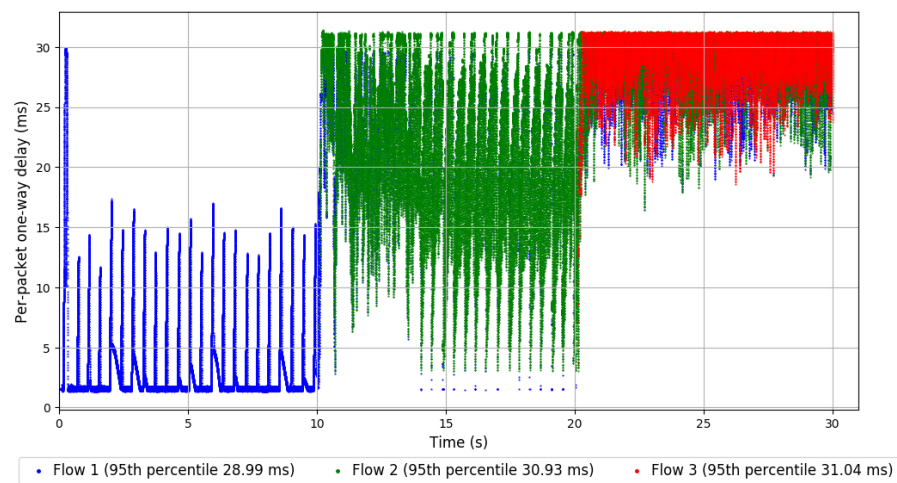
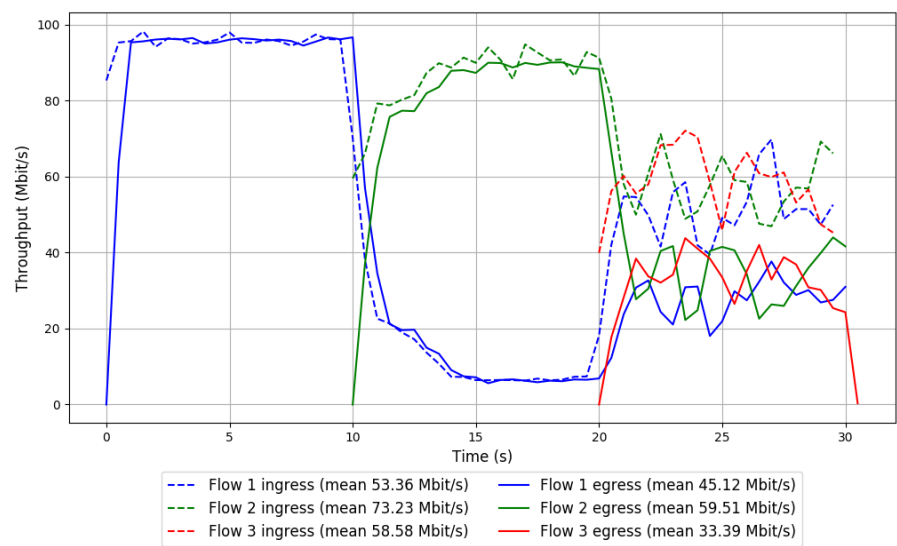


Run 2: Statistics of FillP

Start at: 2019-11-24 08:01:45  
End at: 2019-11-24 08:02:15  
Local clock offset: -7.329 ms  
Remote clock offset: 0.793 ms

# Below is generated by plot.py at 2019-11-24 09:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.78 Mbit/s  
95th percentile per-packet one-way delay: 30.765 ms  
Loss rate: 21.10%  
-- Flow 1:  
Average throughput: 45.12 Mbit/s  
95th percentile per-packet one-way delay: 28.991 ms  
Loss rate: 15.38%  
-- Flow 2:  
Average throughput: 59.51 Mbit/s  
95th percentile per-packet one-way delay: 30.932 ms  
Loss rate: 18.63%  
-- Flow 3:  
Average throughput: 33.39 Mbit/s  
95th percentile per-packet one-way delay: 31.036 ms  
Loss rate: 42.98%

Run 2: Report of FillP — Data Link

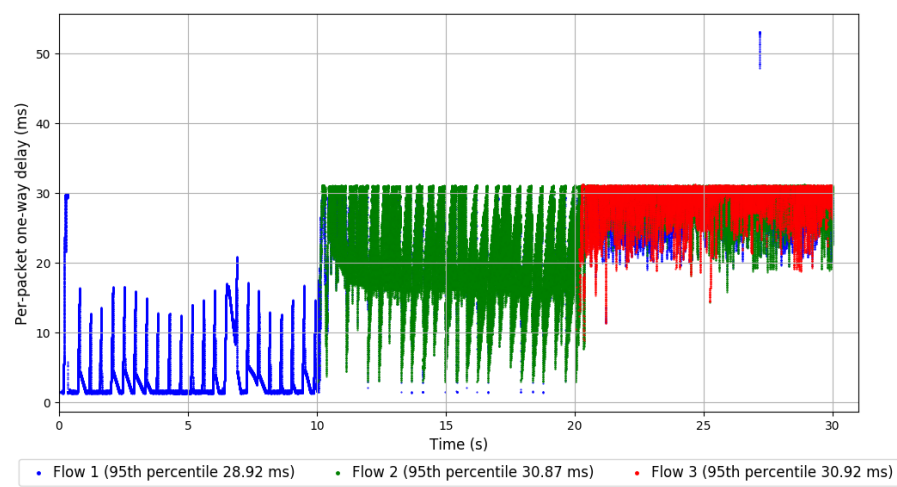
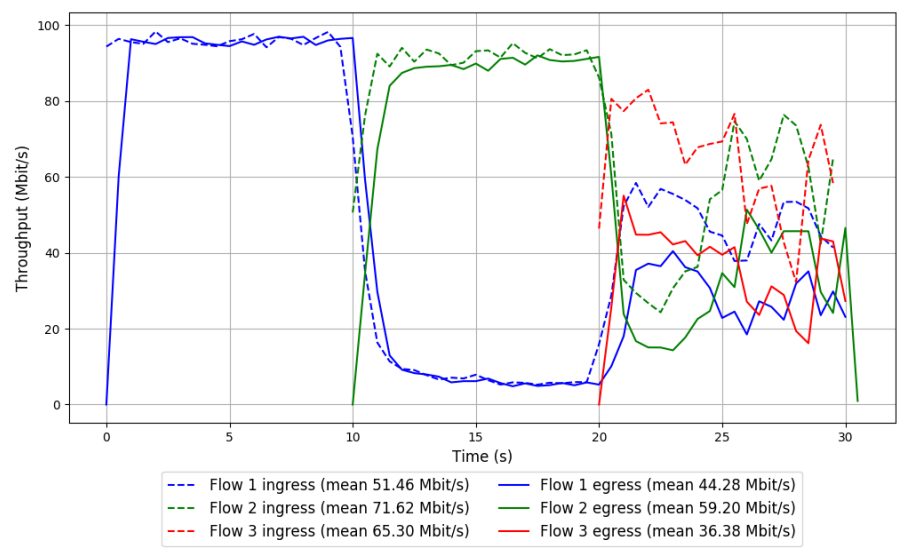


Run 3: Statistics of FillP

Start at: 2019-11-24 08:28:54  
End at: 2019-11-24 08:29:24  
Local clock offset: -7.209 ms  
Remote clock offset: 0.584 ms

# Below is generated by plot.py at 2019-11-24 09:35:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 30.773 ms  
Loss rate: 20.64%  
-- Flow 1:  
Average throughput: 44.28 Mbit/s  
95th percentile per-packet one-way delay: 28.920 ms  
Loss rate: 13.91%  
-- Flow 2:  
Average throughput: 59.20 Mbit/s  
95th percentile per-packet one-way delay: 30.871 ms  
Loss rate: 17.23%  
-- Flow 3:  
Average throughput: 36.38 Mbit/s  
95th percentile per-packet one-way delay: 30.922 ms  
Loss rate: 44.19%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-24 08:56:04

End at: 2019-11-24 08:56:34

Local clock offset: -5.484 ms

Remote clock offset: 0.521 ms

# Below is generated by plot.py at 2019-11-24 09:35:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.63 Mbit/s

95th percentile per-packet one-way delay: 28.951 ms

Loss rate: 14.36%

-- Flow 1:

Average throughput: 54.50 Mbit/s

95th percentile per-packet one-way delay: 28.838 ms

Loss rate: 6.20%

-- Flow 2:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 29.656 ms

Loss rate: 9.91%

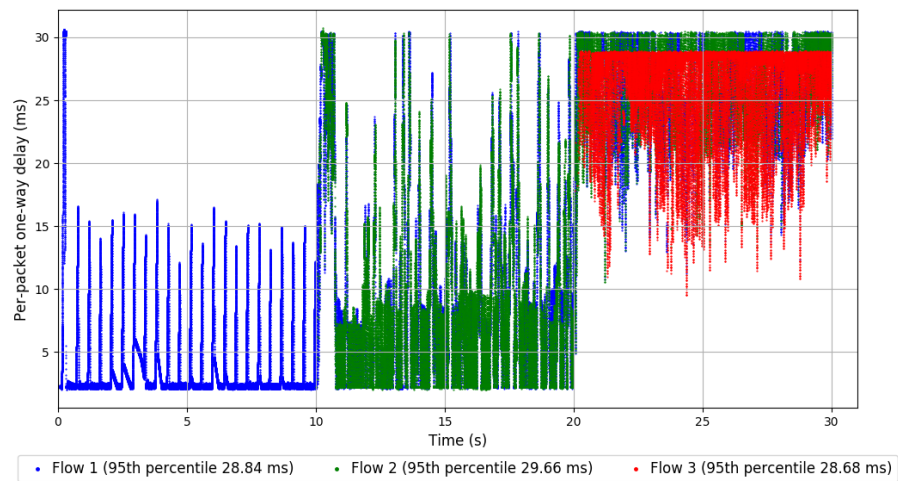
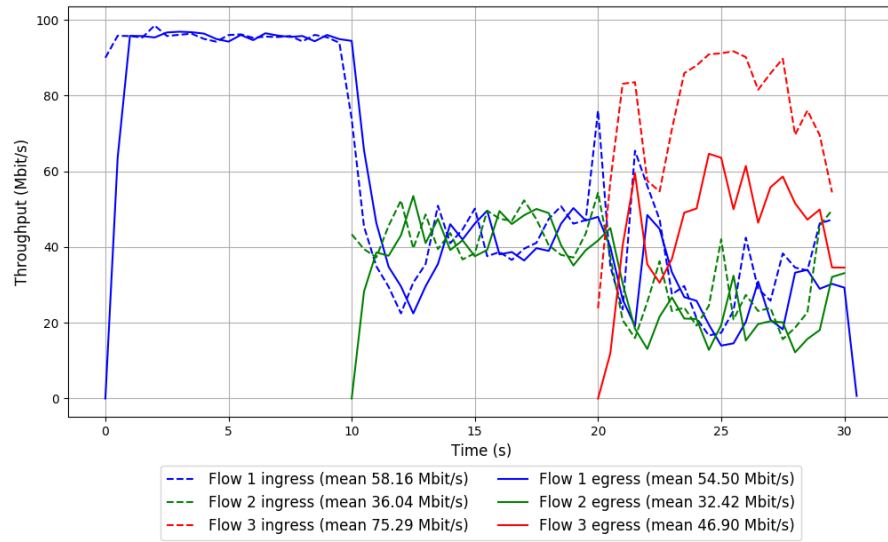
-- Flow 3:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 28.680 ms

Loss rate: 37.67%

# Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-24 09:23:22

End at: 2019-11-24 09:23:52

Local clock offset: -5.549 ms

Remote clock offset: 0.296 ms

# Below is generated by plot.py at 2019-11-24 09:35:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 29.988 ms

Loss rate: 20.84%

-- Flow 1:

Average throughput: 45.39 Mbit/s

95th percentile per-packet one-way delay: 29.625 ms

Loss rate: 15.13%

-- Flow 2:

Average throughput: 59.63 Mbit/s

95th percentile per-packet one-way delay: 30.092 ms

Loss rate: 18.03%

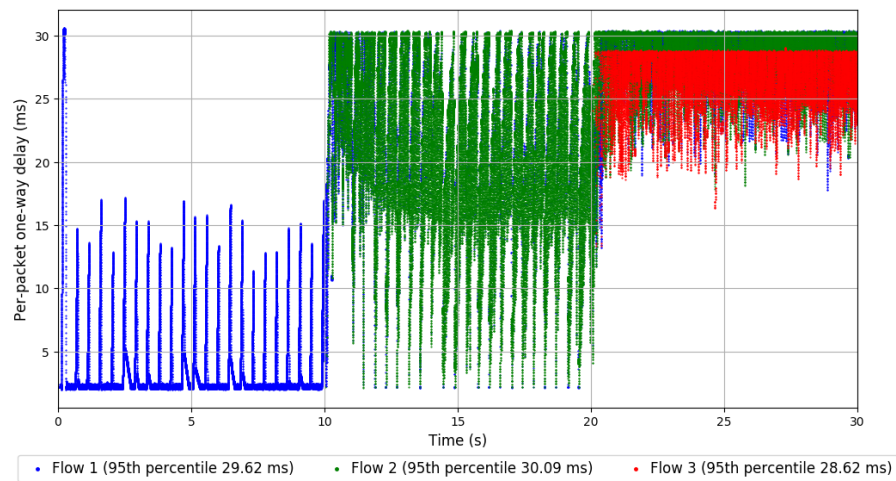
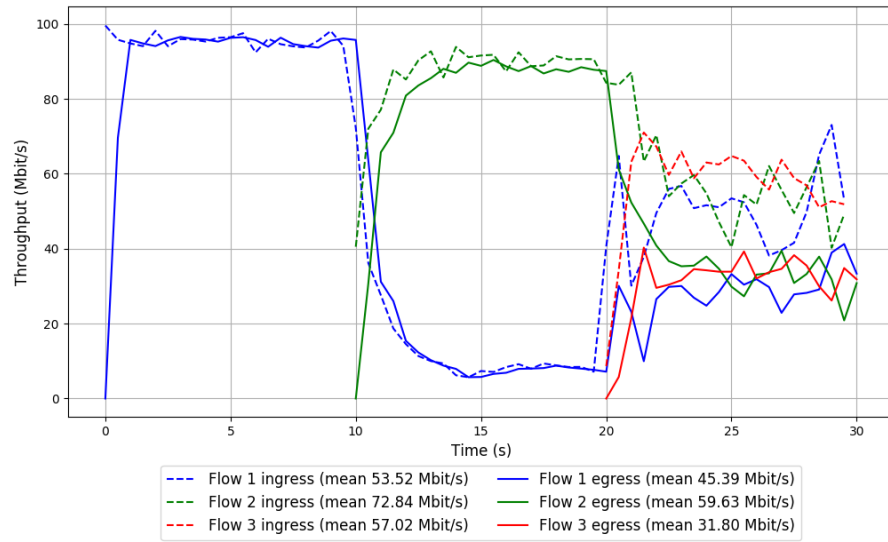
-- Flow 3:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 28.623 ms

Loss rate: 44.22%

## Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 07:31:04

End at: 2019-11-24 07:31:34

Local clock offset: -6.736 ms

Remote clock offset: 0.755 ms

# Below is generated by plot.py at 2019-11-24 09:35:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 22.849 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 39.89 Mbit/s

95th percentile per-packet one-way delay: 13.665 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 22.702 ms

Loss rate: 0.68%

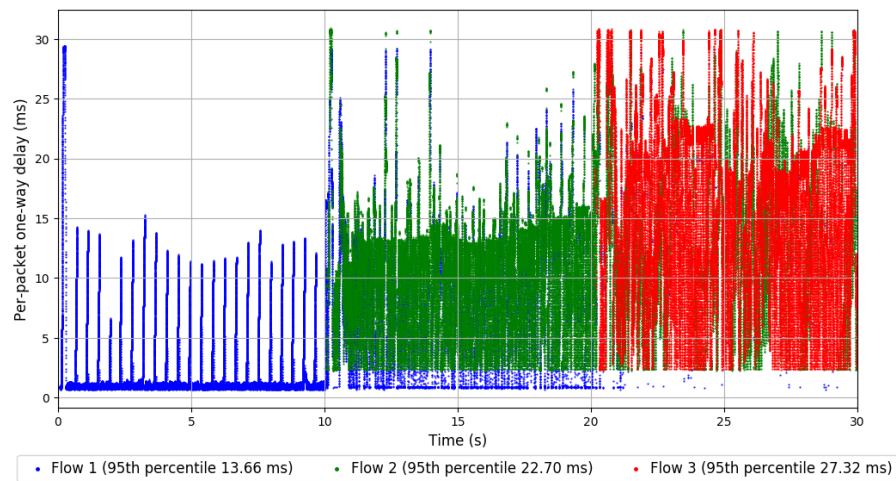
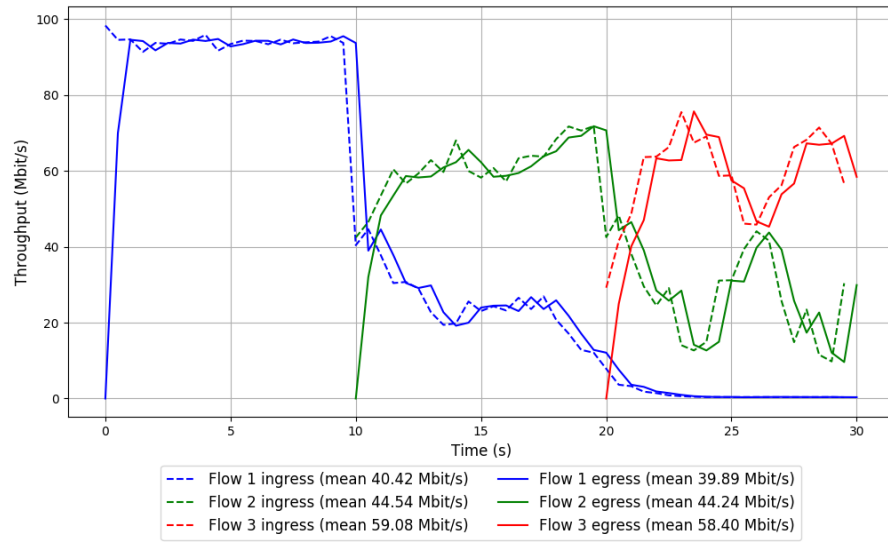
-- Flow 3:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 27.317 ms

Loss rate: 1.19%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 07:58:16

End at: 2019-11-24 07:58:46

Local clock offset: -6.579 ms

Remote clock offset: 0.744 ms

# Below is generated by plot.py at 2019-11-24 09:35:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 13.790 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 50.44 Mbit/s

95th percentile per-packet one-way delay: 12.695 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 15.255 ms

Loss rate: 1.49%

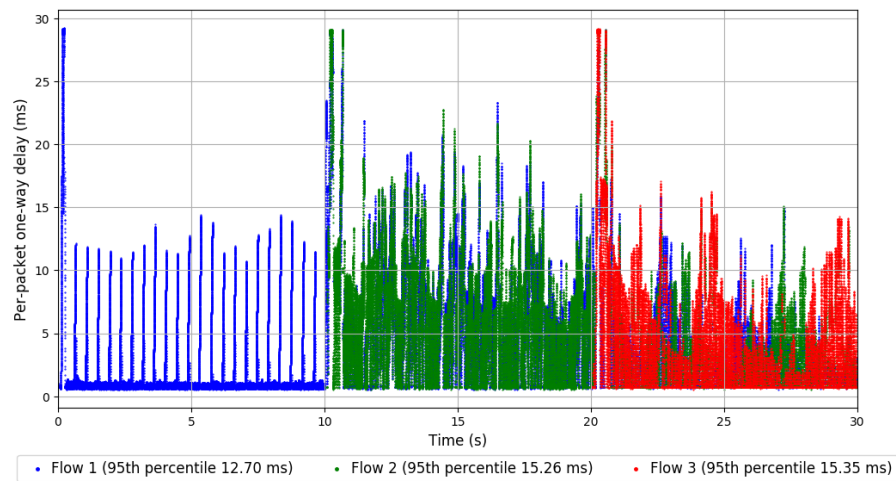
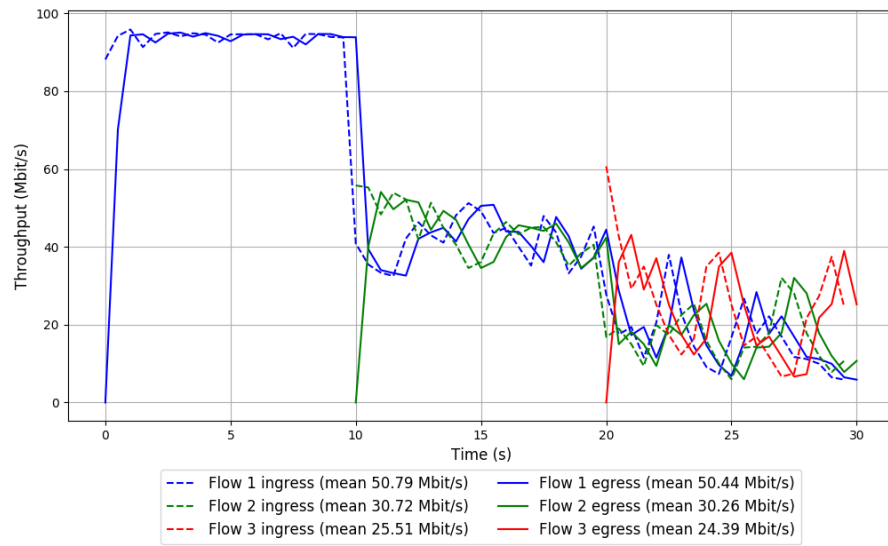
-- Flow 3:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 15.347 ms

Loss rate: 4.40%

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



Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 08:25:26

End at: 2019-11-24 08:25:56

Local clock offset: -7.21 ms

Remote clock offset: 0.715 ms

# Below is generated by plot.py at 2019-11-24 09:35:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.27 Mbit/s

95th percentile per-packet one-way delay: 14.454 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 13.344 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 29.67 Mbit/s

95th percentile per-packet one-way delay: 16.215 ms

Loss rate: 0.91%

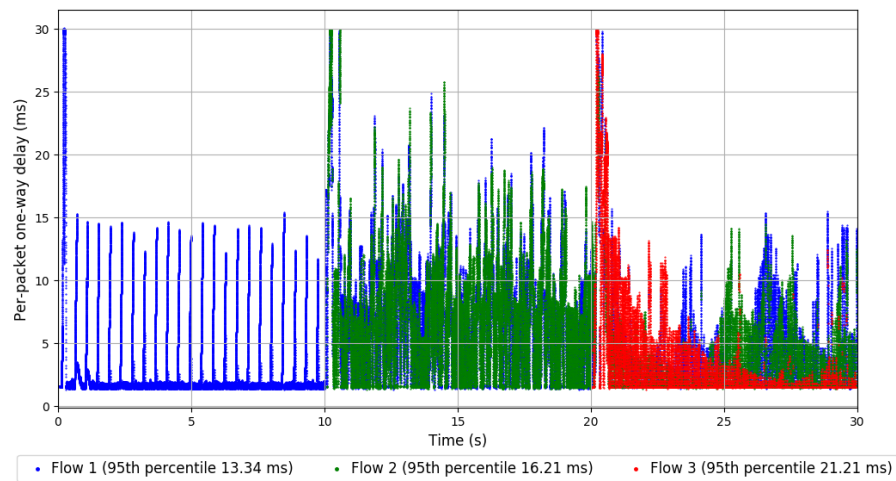
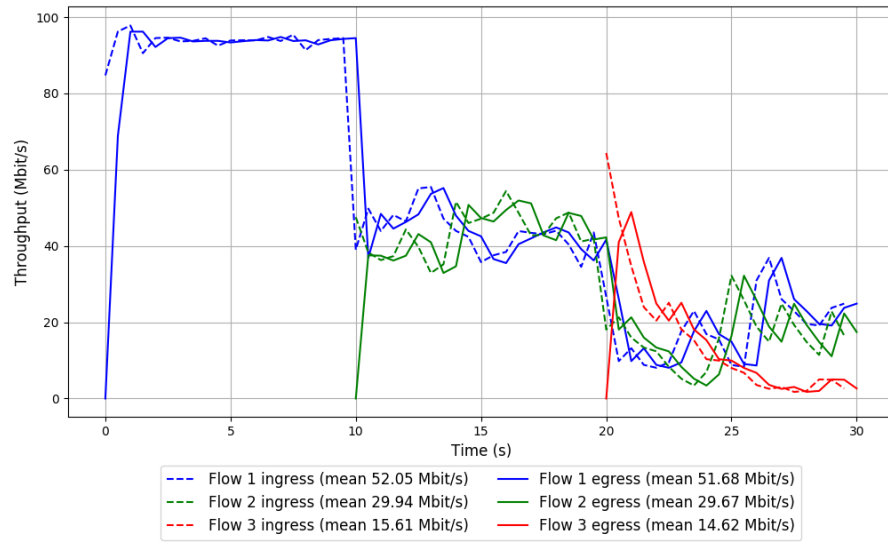
-- Flow 3:

Average throughput: 14.62 Mbit/s

95th percentile per-packet one-way delay: 21.206 ms

Loss rate: 6.37%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 08:52:36

End at: 2019-11-24 08:53:06

Local clock offset: -6.345 ms

Remote clock offset: 0.548 ms

# Below is generated by plot.py at 2019-11-24 09:36:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 14.605 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 12.558 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 16.454 ms

Loss rate: 0.56%

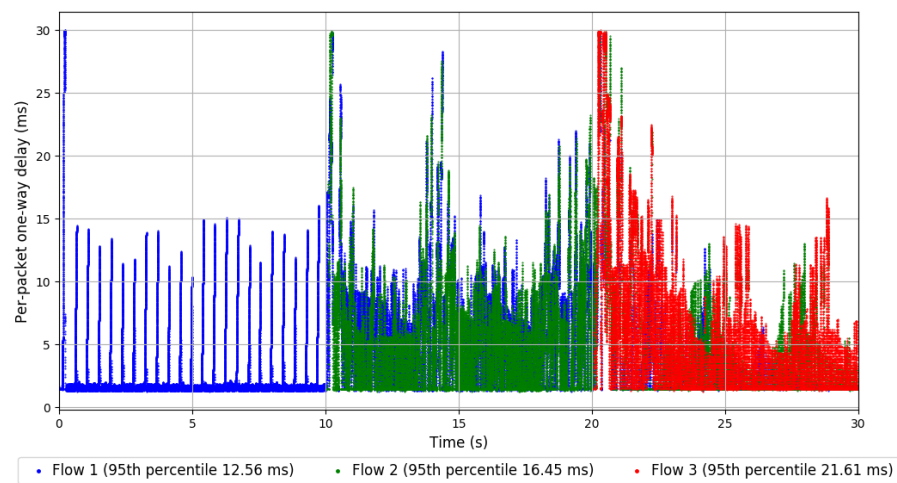
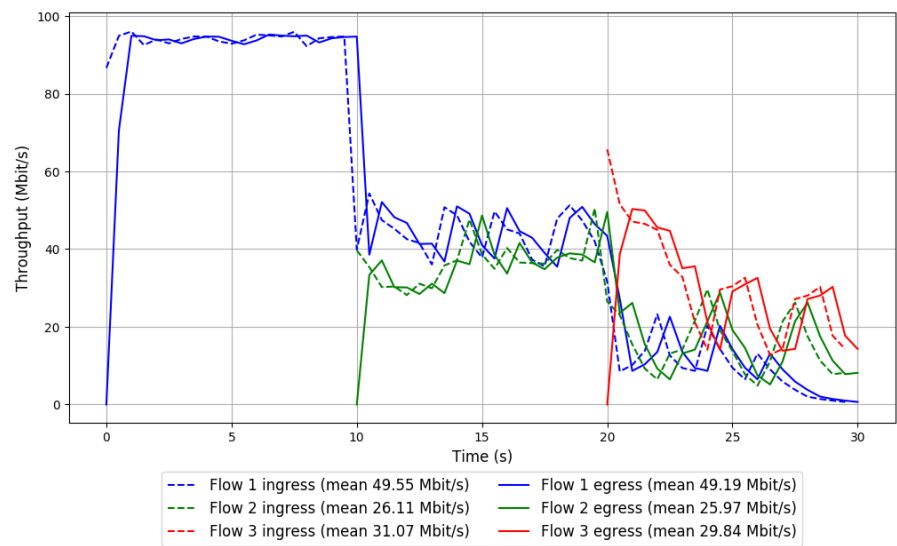
-- Flow 3:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 21.615 ms

Loss rate: 3.99%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 09:19:54

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

Local clock offset: -6.332 ms

Remote clock offset: 0.506 ms

# Below is generated by plot.py at 2019-11-24 09:36:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.04 Mbit/s

95th percentile per-packet one-way delay: 24.334 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 54.36 Mbit/s

95th percentile per-packet one-way delay: 22.253 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 26.062 ms

Loss rate: 1.43%

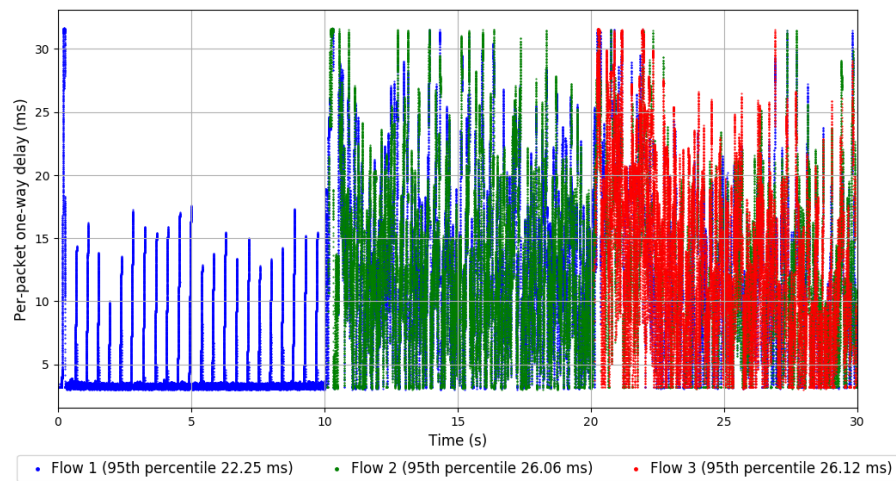
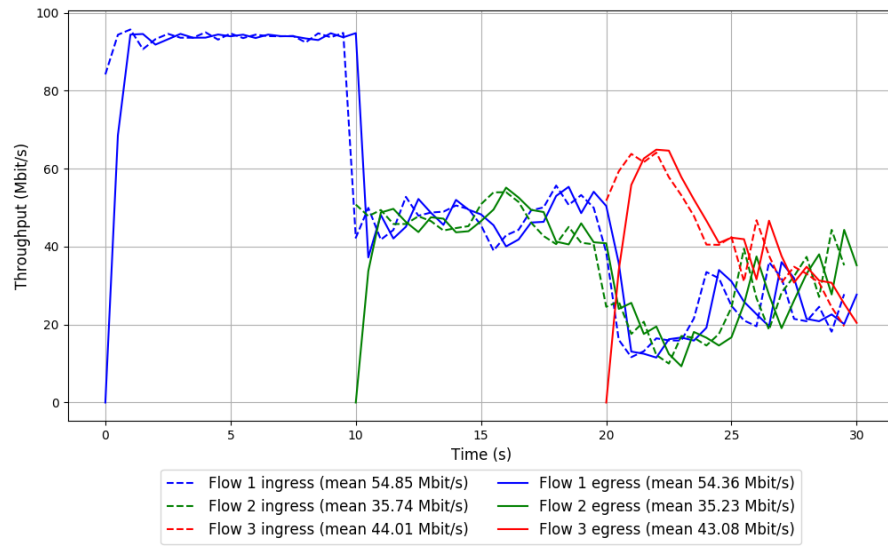
-- Flow 3:

Average throughput: 43.08 Mbit/s

95th percentile per-packet one-way delay: 26.124 ms

Loss rate: 2.18%

# Run 5: Report of FillP-Sheep — Data Link

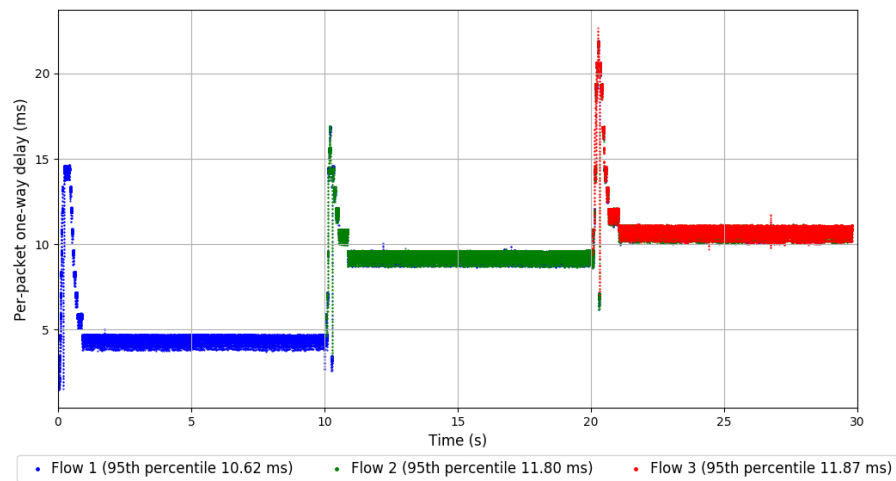
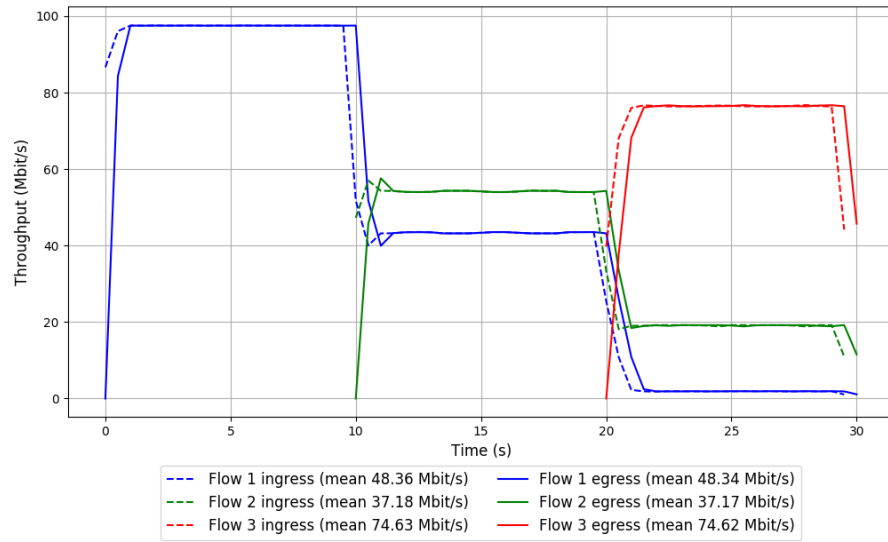


```
Run 1: Statistics of Indigo

Start at: 2019-11-24 07:15:16
End at: 2019-11-24 07:15:46
Local clock offset: -6.7 ms
Remote clock offset: 0.723 ms

# Below is generated by plot.py at 2019-11-24 09:36:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 11.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.34 Mbit/s
95th percentile per-packet one-way delay: 10.625 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.17 Mbit/s
95th percentile per-packet one-way delay: 11.798 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.62 Mbit/s
95th percentile per-packet one-way delay: 11.868 ms
Loss rate: 0.00%
```

# Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-11-24 07:42:28

End at: 2019-11-24 07:42:58

Local clock offset: -7.479 ms

Remote clock offset: 0.71 ms

# Below is generated by plot.py at 2019-11-24 09:36:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 11.791 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.21 Mbit/s

95th percentile per-packet one-way delay: 10.787 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.40 Mbit/s

95th percentile per-packet one-way delay: 10.328 ms

Loss rate: 0.00%

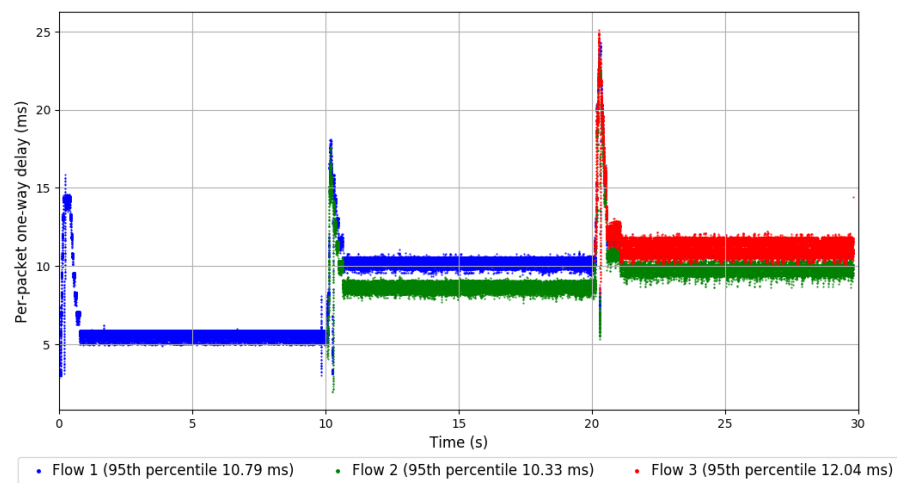
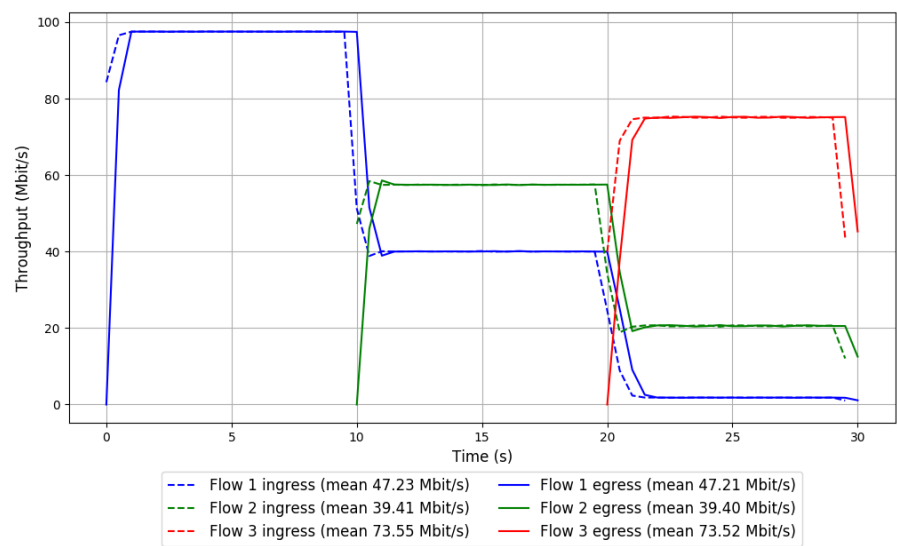
-- Flow 3:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 12.042 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-11-24 08:09:40

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

Local clock offset: -6.616 ms

Remote clock offset: 0.781 ms

# Below is generated by plot.py at 2019-11-24 09:36:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 12.417 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.30 Mbit/s

95th percentile per-packet one-way delay: 9.984 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.21 Mbit/s

95th percentile per-packet one-way delay: 11.162 ms

Loss rate: 0.00%

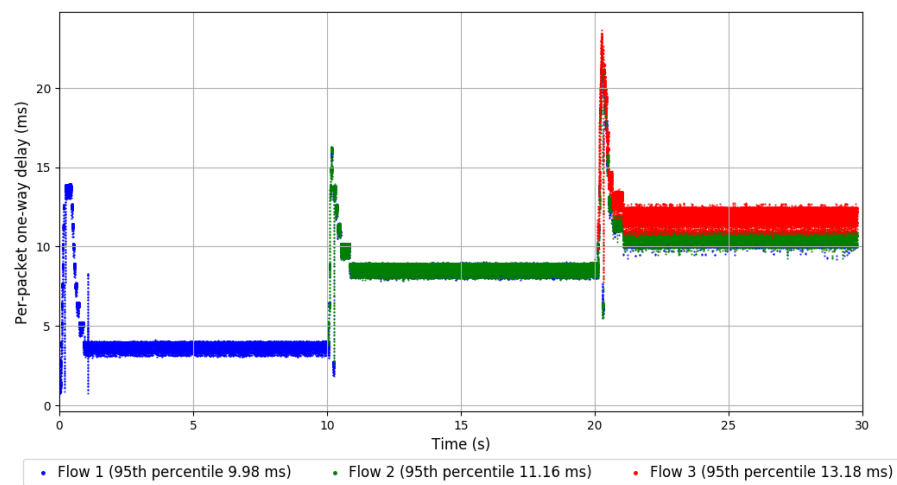
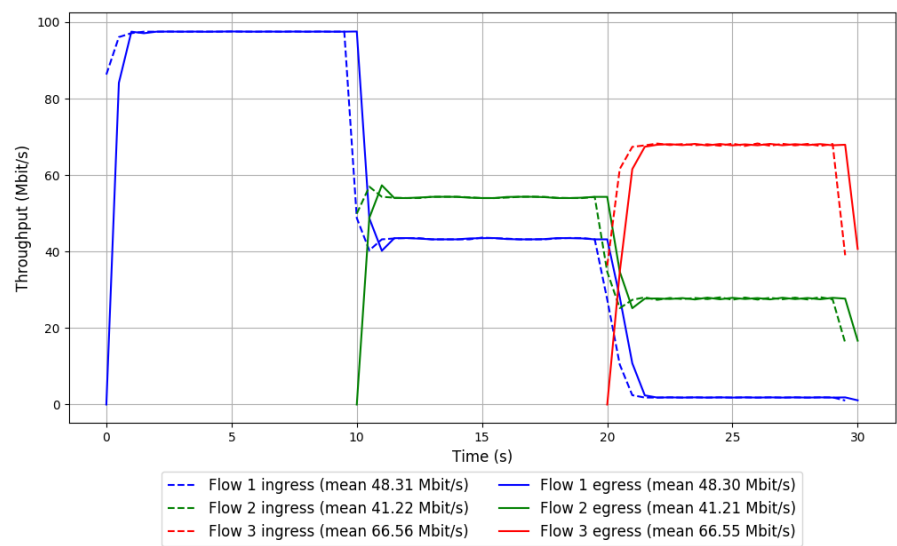
-- Flow 3:

Average throughput: 66.55 Mbit/s

95th percentile per-packet one-way delay: 13.178 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-11-24 08:36:49

End at: 2019-11-24 08:37:19

Local clock offset: -7.264 ms

Remote clock offset: 0.696 ms

# Below is generated by plot.py at 2019-11-24 09:36:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 11.682 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 11.642 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 11.164 ms

Loss rate: 0.00%

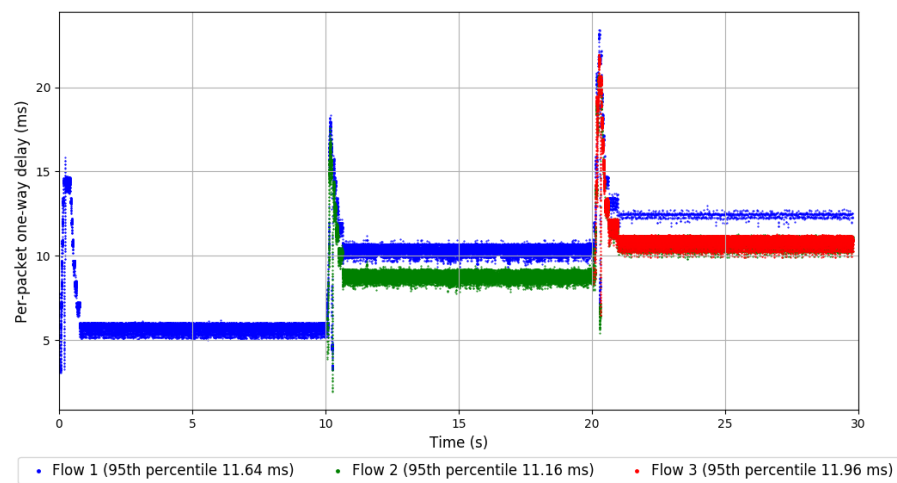
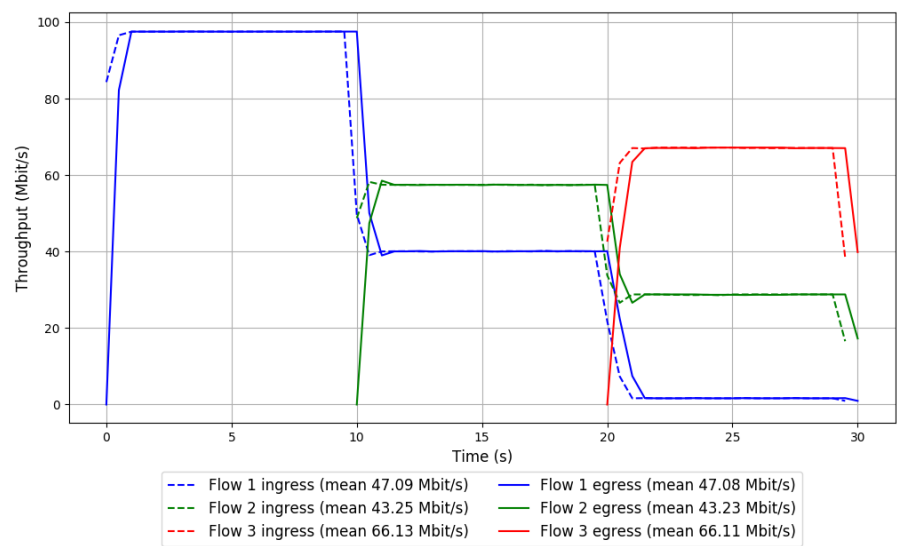
-- Flow 3:

Average throughput: 66.11 Mbit/s

95th percentile per-packet one-way delay: 11.958 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-11-24 09:03:59

End at: 2019-11-24 09:04:29

Local clock offset: -6.072 ms

Remote clock offset: 0.528 ms

# Below is generated by plot.py at 2019-11-24 09:36:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 11.373 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.41 Mbit/s

95th percentile per-packet one-way delay: 9.860 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.73 Mbit/s

95th percentile per-packet one-way delay: 11.846 ms

Loss rate: 0.00%

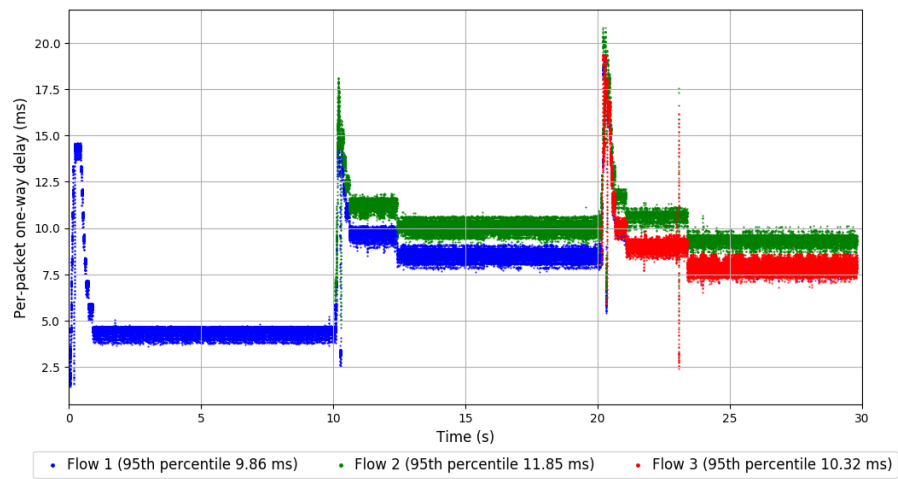
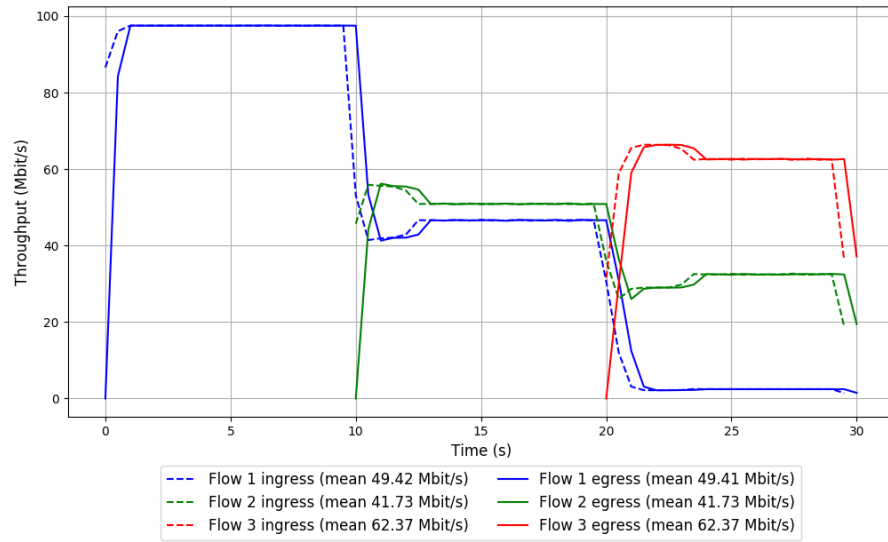
-- Flow 3:

Average throughput: 62.37 Mbit/s

95th percentile per-packet one-way delay: 10.324 ms

Loss rate: 0.00%

## Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 07:41:19

End at: 2019-11-24 07:41:49

Local clock offset: -7.578 ms

Remote clock offset: 0.67 ms

# Below is generated by plot.py at 2019-11-24 09:36:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 11.748 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 12.327 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.34 Mbit/s

95th percentile per-packet one-way delay: 10.402 ms

Loss rate: 0.00%

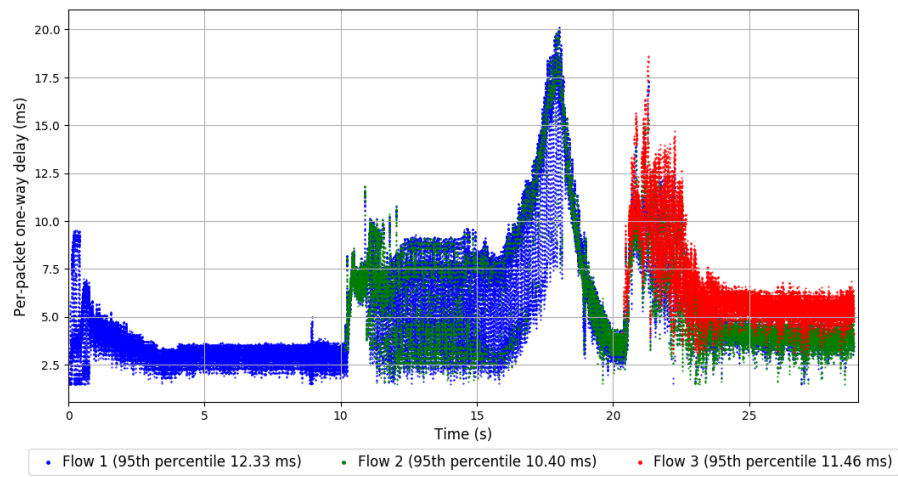
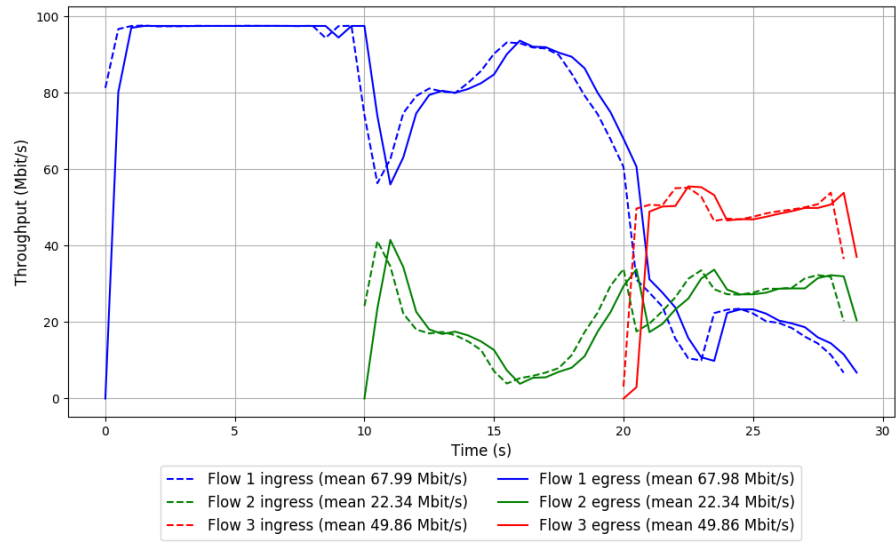
-- Flow 3:

Average throughput: 49.86 Mbit/s

95th percentile per-packet one-way delay: 11.464 ms

Loss rate: 0.00%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 08:08:31

End at: 2019-11-24 08:09:01

Local clock offset: -7.349 ms

Remote clock offset: 0.792 ms

# Below is generated by plot.py at 2019-11-24 09:37:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 12.943 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.08 Mbit/s

95th percentile per-packet one-way delay: 14.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 11.489 ms

Loss rate: 0.00%

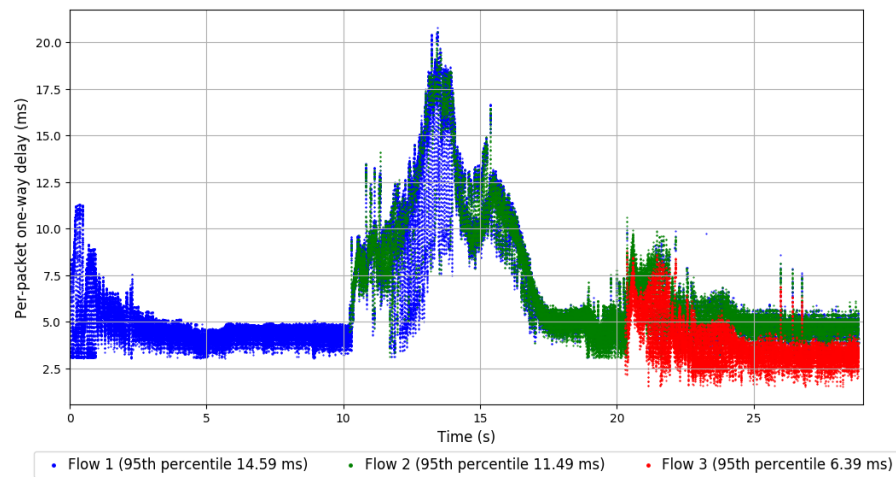
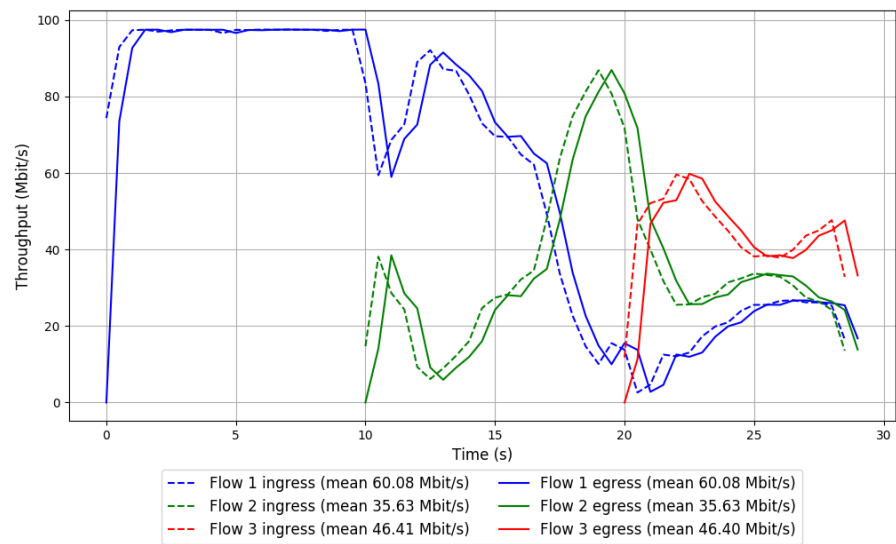
-- Flow 3:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 6.388 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



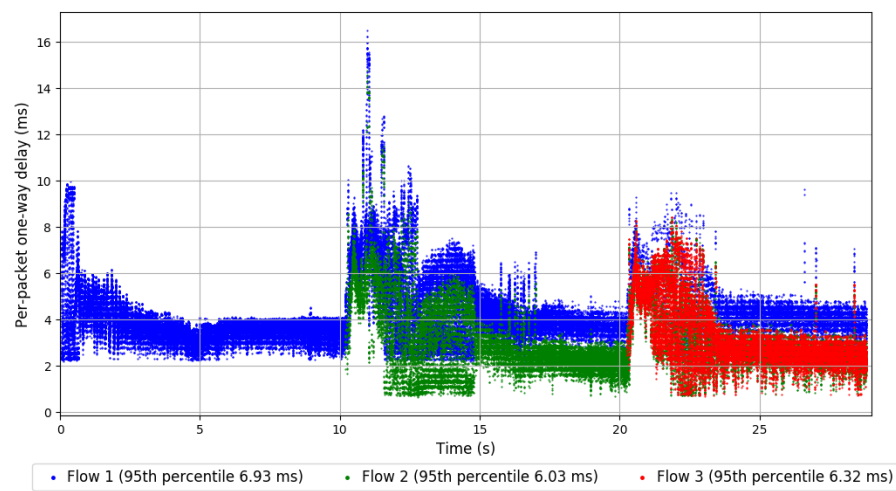
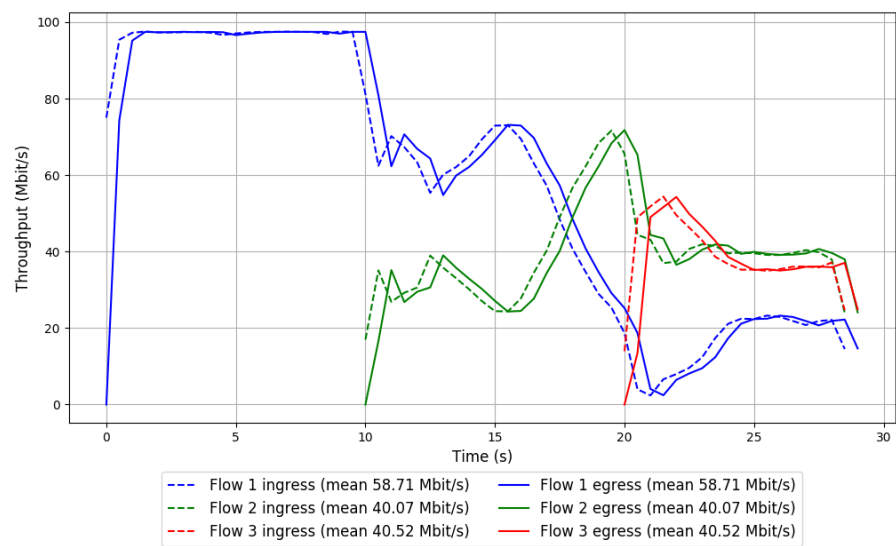


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 08:35:40  
End at: 2019-11-24 08:36:10  
Local clock offset: -6.443 ms  
Remote clock offset: 0.672 ms

# Below is generated by plot.py at 2019-11-24 09:37:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.65 Mbit/s  
95th percentile per-packet one-way delay: 6.554 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.71 Mbit/s  
95th percentile per-packet one-way delay: 6.934 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.07 Mbit/s  
95th percentile per-packet one-way delay: 6.025 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 40.52 Mbit/s  
95th percentile per-packet one-way delay: 6.323 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 09:02:50

End at: 2019-11-24 09:03:20

Local clock offset: -6.101 ms

Remote clock offset: 0.515 ms

# Below is generated by plot.py at 2019-11-24 09:37:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 14.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 14.370 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.96 Mbit/s

95th percentile per-packet one-way delay: 14.590 ms

Loss rate: 0.00%

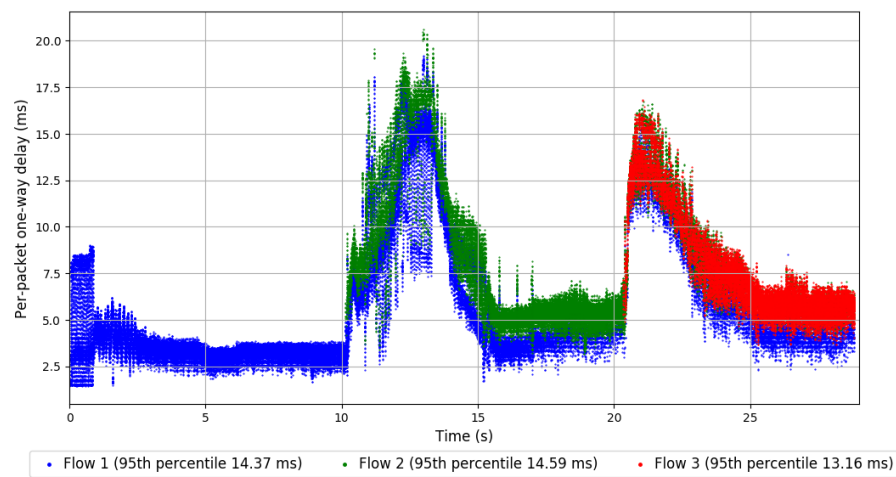
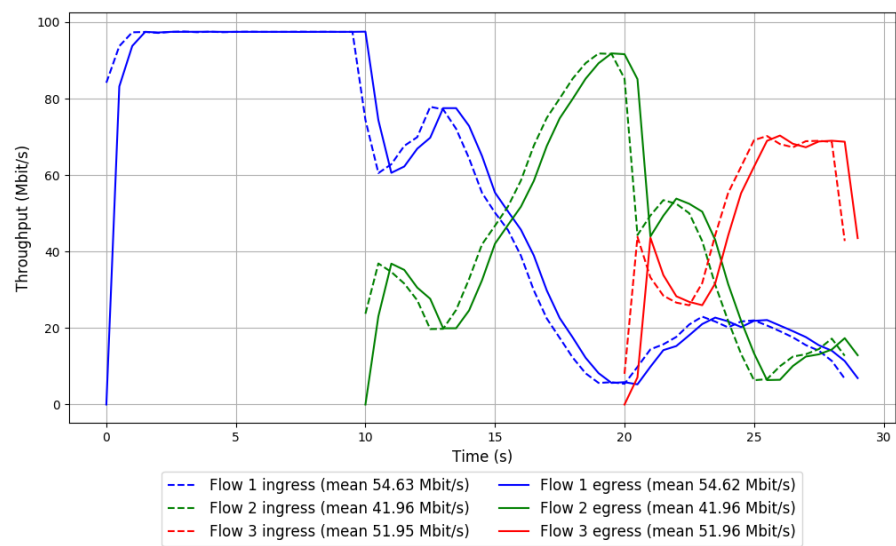
-- Flow 3:

Average throughput: 51.96 Mbit/s

95th percentile per-packet one-way delay: 13.157 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

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

End at: 2019-11-24 09:30:39

Local clock offset: -5.569 ms

Remote clock offset: 0.276 ms

# Below is generated by plot.py at 2019-11-24 09:37:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.84 Mbit/s

95th percentile per-packet one-way delay: 13.756 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.64 Mbit/s

95th percentile per-packet one-way delay: 12.496 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.69 Mbit/s

95th percentile per-packet one-way delay: 14.800 ms

Loss rate: 0.00%

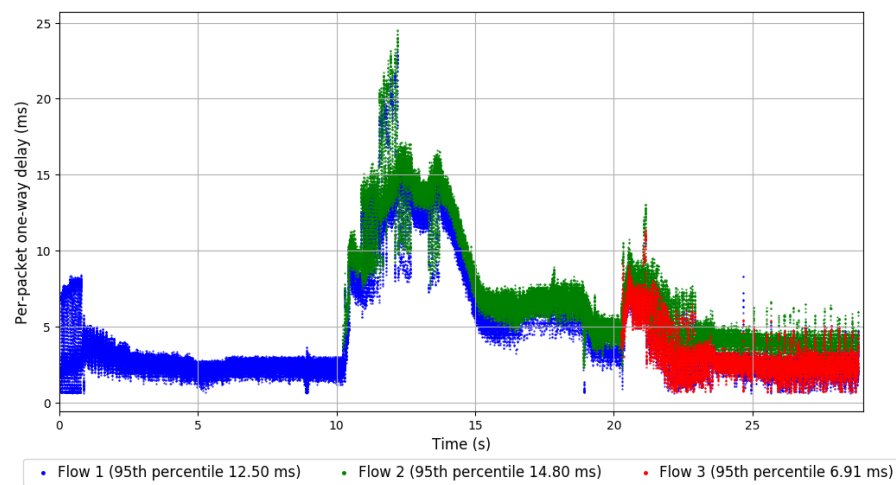
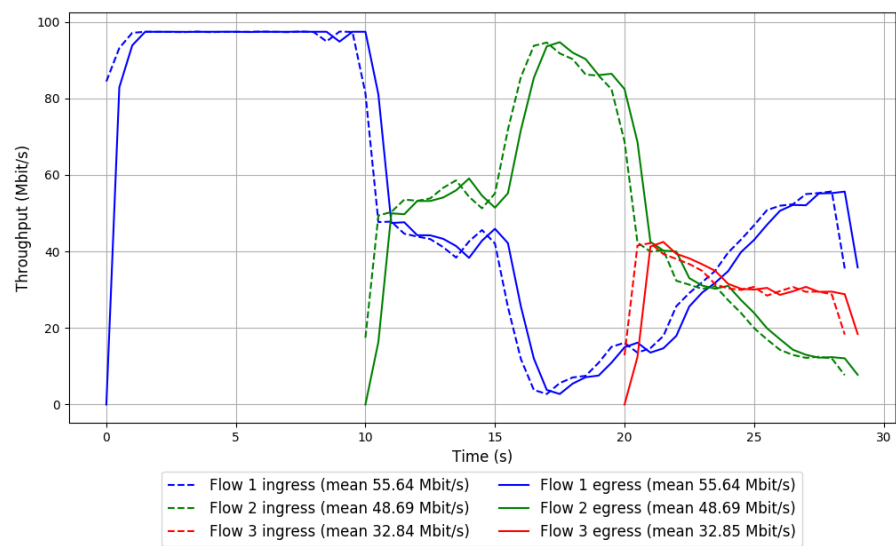
-- Flow 3:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 6.913 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

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

End at: 2019-11-24 07:40:41

Local clock offset: -7.541 ms

Remote clock offset: 0.789 ms

# Below is generated by plot.py at 2019-11-24 09:37:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 26.794 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 22.466 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 29.649 ms

Loss rate: 0.01%

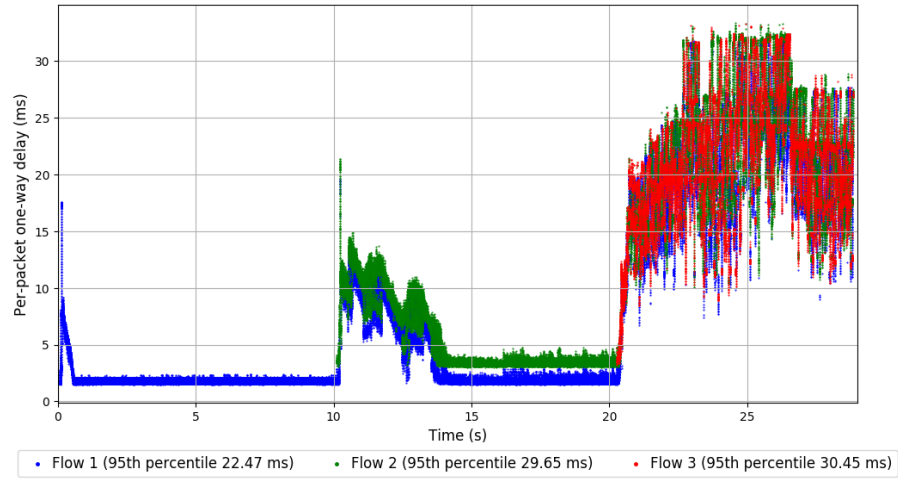
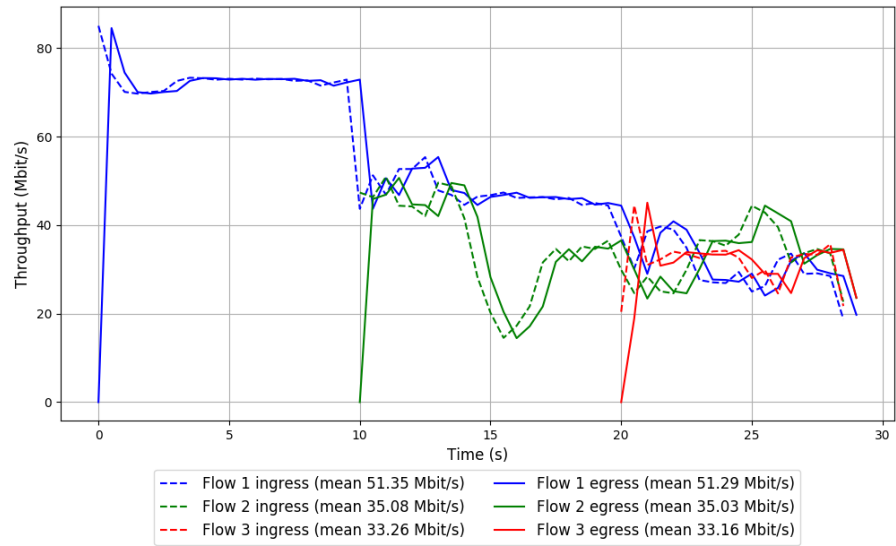
-- Flow 3:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 30.451 ms

Loss rate: 0.00%

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





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 08:07:23

End at: 2019-11-24 08:07:53

Local clock offset: -7.393 ms

Remote clock offset: 0.679 ms

# Below is generated by plot.py at 2019-11-24 09:37:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.95 Mbit/s

95th percentile per-packet one-way delay: 21.989 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 20.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 22.389 ms

Loss rate: 0.00%

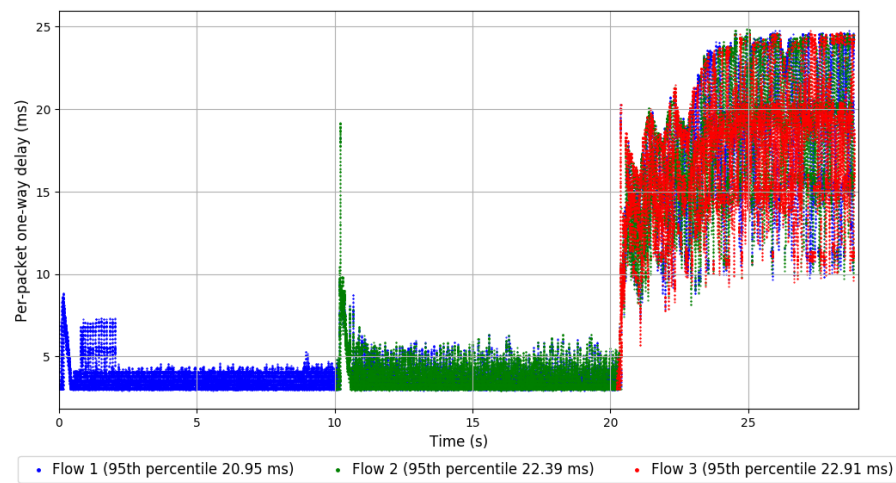
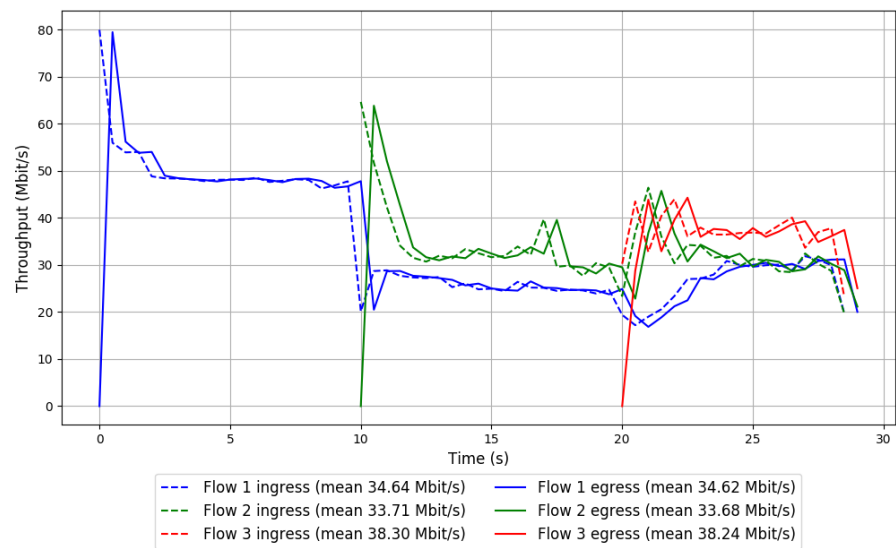
-- Flow 3:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 22.915 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 08:34:32

End at: 2019-11-24 08:35:02

Local clock offset: -6.433 ms

Remote clock offset: 0.704 ms

# Below is generated by plot.py at 2019-11-24 09:37:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 4.289 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 4.746 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 3.848 ms

Loss rate: 0.00%

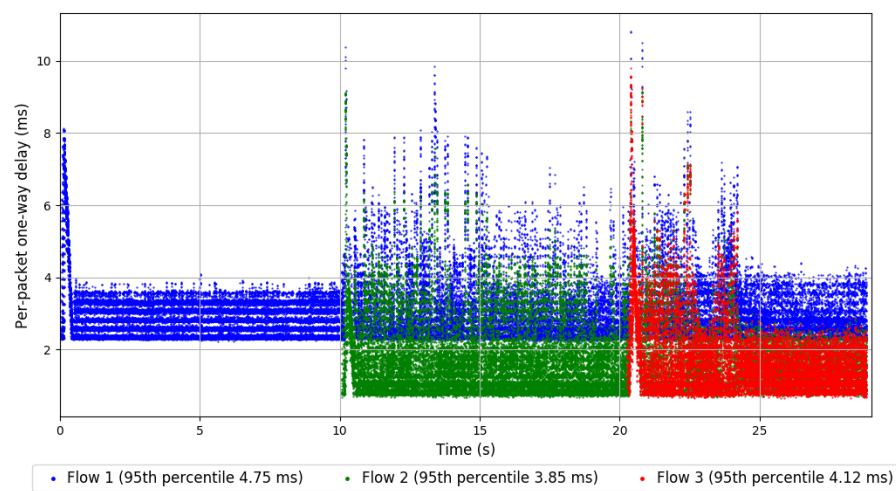
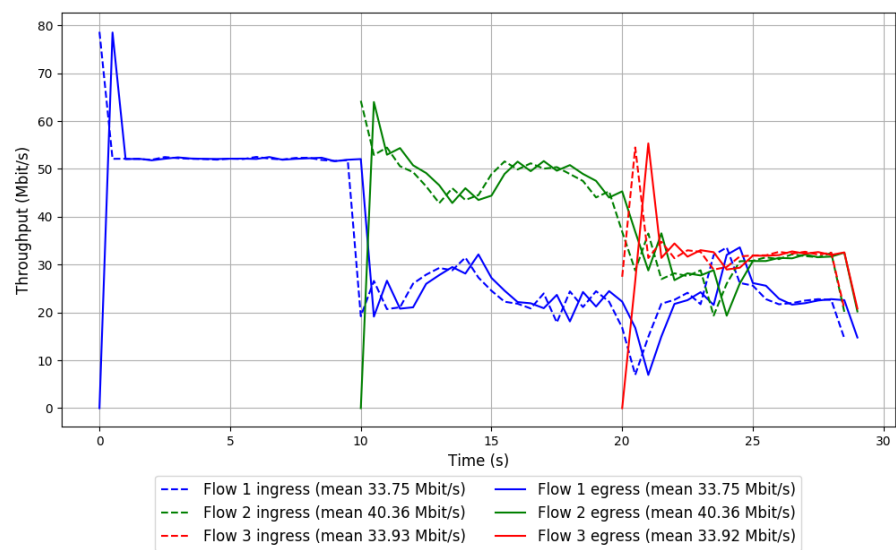
-- Flow 3:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 4.124 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 09:01:42

End at: 2019-11-24 09:02:12

Local clock offset: -5.353 ms

Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2019-11-24 09:37:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 19.985 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 19.940 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 18.678 ms

Loss rate: 0.00%

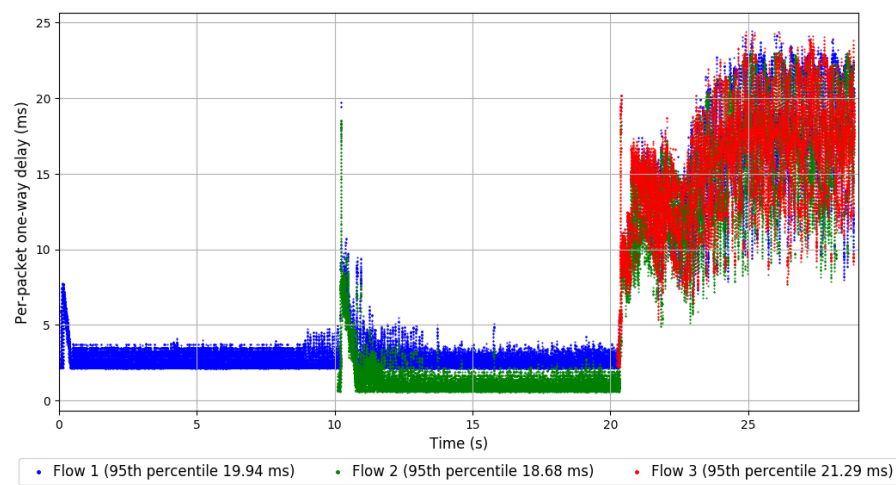
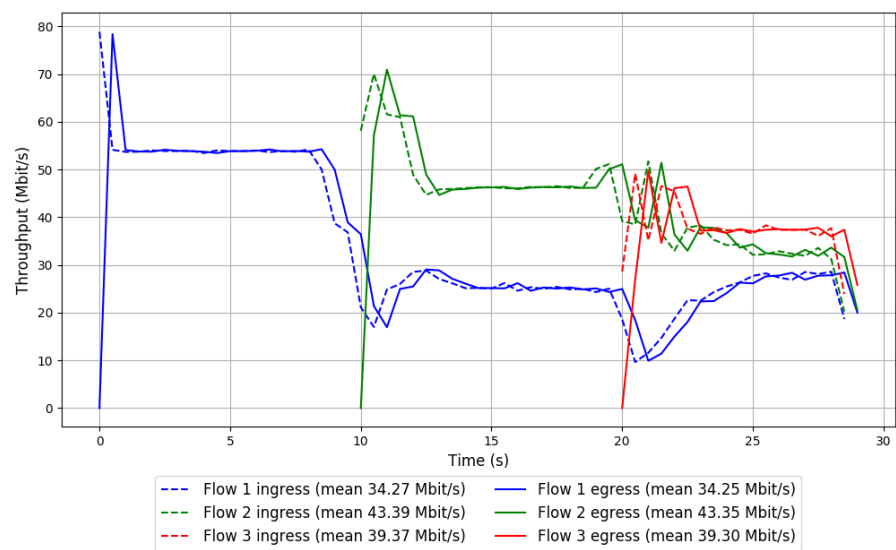
-- Flow 3:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 21.289 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 09:29:01

End at: 2019-11-24 09:29:31

Local clock offset: -5.578 ms

Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2019-11-24 09:38:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.55 Mbit/s

95th percentile per-packet one-way delay: 23.325 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 21.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 22.707 ms

Loss rate: 0.00%

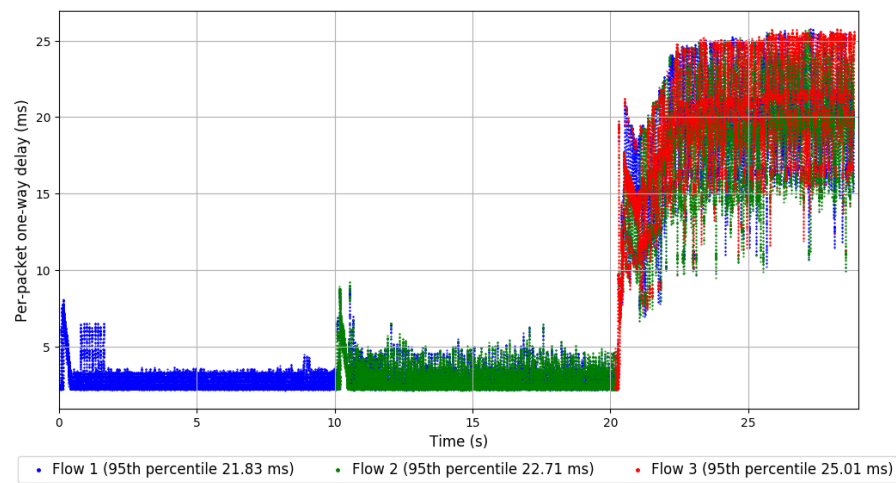
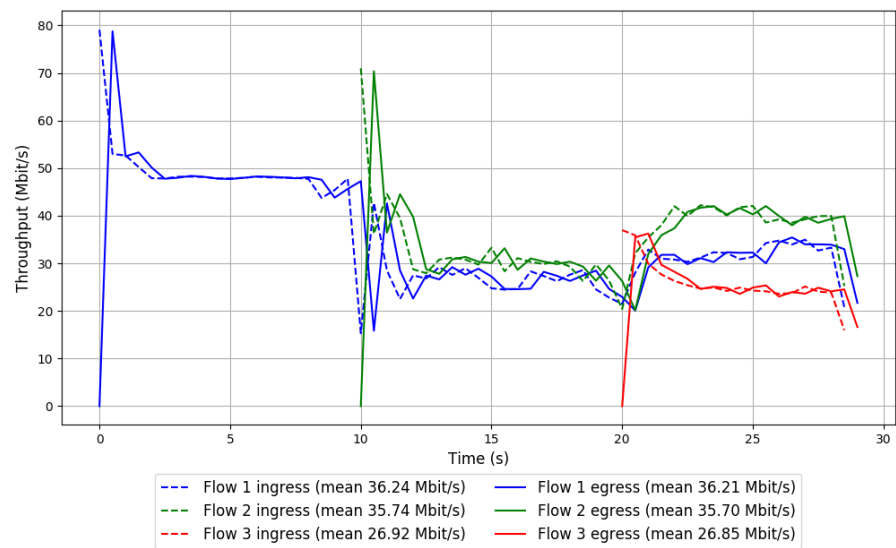
-- Flow 3:

Average throughput: 26.85 Mbit/s

95th percentile per-packet one-way delay: 25.013 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 07:35:41

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

Local clock offset: -6.756 ms

Remote clock offset: 0.691 ms

# Below is generated by plot.py at 2019-11-24 09:38:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 29.598 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 29.095 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 29.614 ms

Loss rate: 0.24%

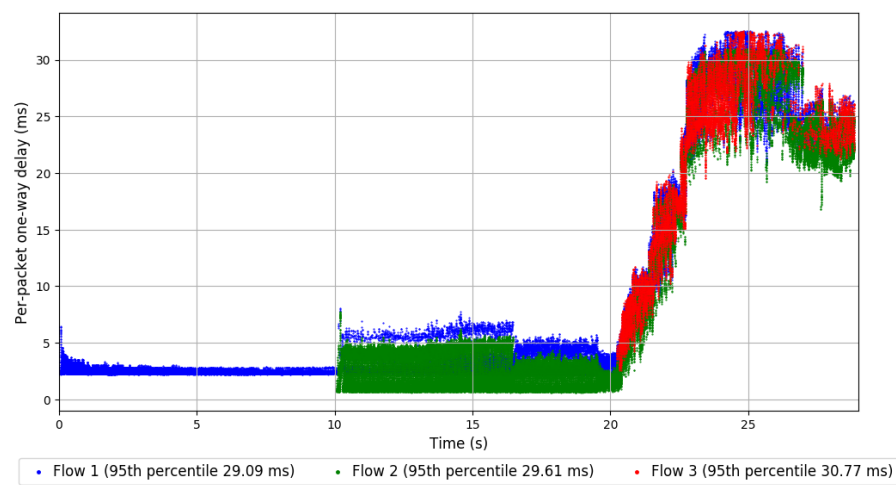
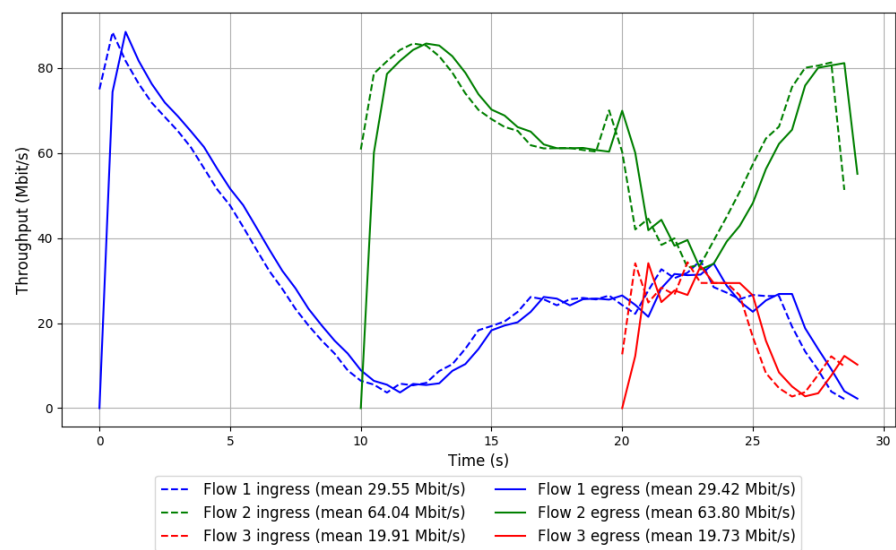
-- Flow 3:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 30.767 ms

Loss rate: 0.64%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 08:02:54

End at: 2019-11-24 08:03:24

Local clock offset: -6.589 ms

Remote clock offset: 0.802 ms

# Below is generated by plot.py at 2019-11-24 09:38:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 32.162 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 45.00 Mbit/s

95th percentile per-packet one-way delay: 32.141 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 27.89 Mbit/s

95th percentile per-packet one-way delay: 31.996 ms

Loss rate: 1.23%

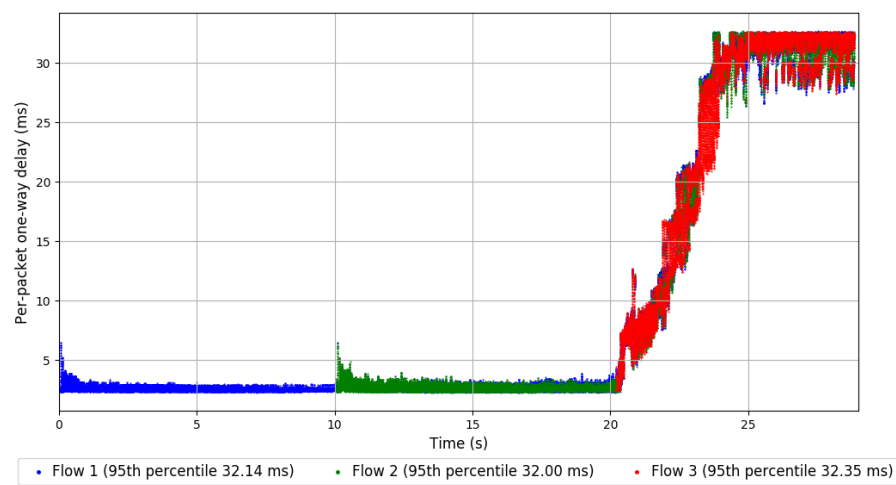
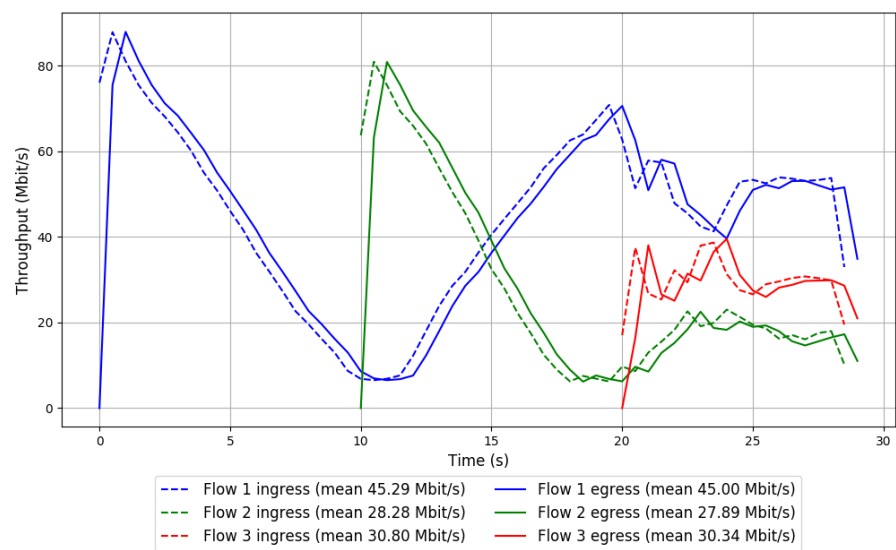
-- Flow 3:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 32.354 ms

Loss rate: 1.13%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 08:30:03

End at: 2019-11-24 08:30:33

Local clock offset: -6.452 ms

Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-11-24 09:38:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.78 Mbit/s

95th percentile per-packet one-way delay: 30.135 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 45.71 Mbit/s

95th percentile per-packet one-way delay: 30.341 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 29.476 ms

Loss rate: 0.30%

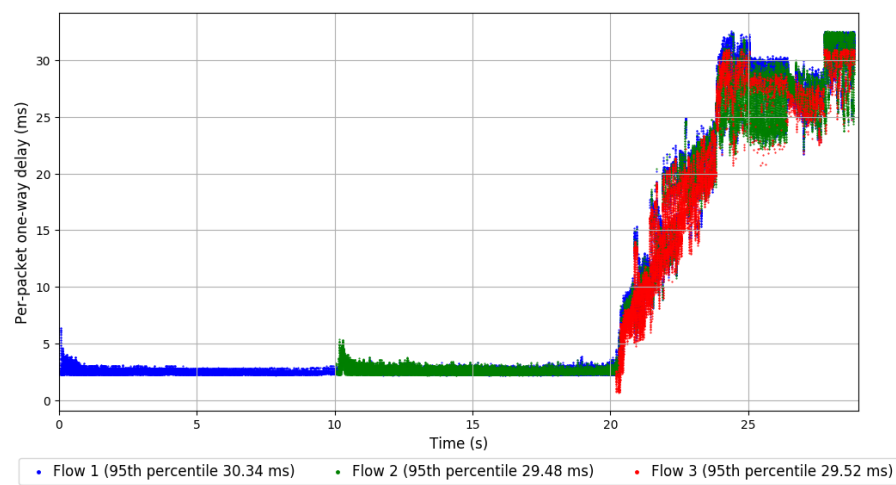
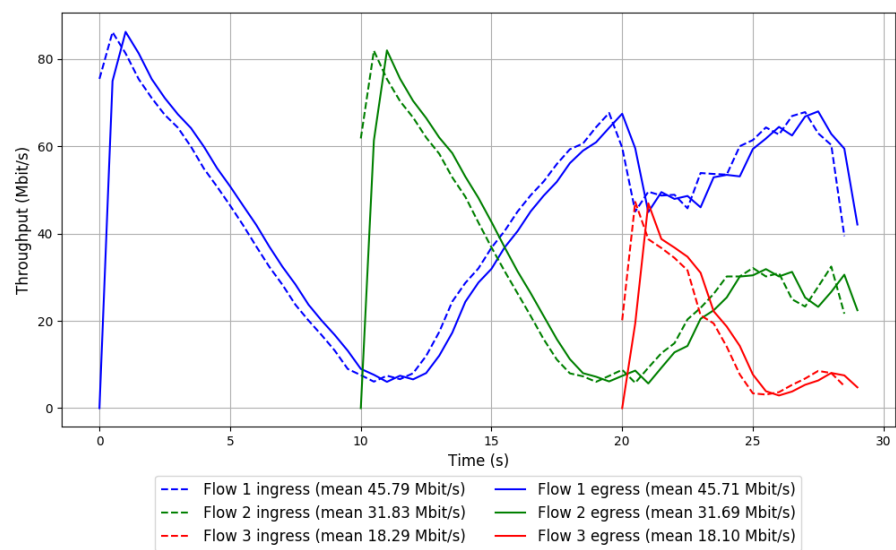
-- Flow 3:

Average throughput: 18.10 Mbit/s

95th percentile per-packet one-way delay: 29.521 ms

Loss rate: 0.67%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 08:57:13

End at: 2019-11-24 08:57:43

Local clock offset: -6.225 ms

Remote clock offset: 0.589 ms

# Below is generated by plot.py at 2019-11-24 09:38:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 33.066 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 33.034 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 26.23 Mbit/s

95th percentile per-packet one-way delay: 32.715 ms

Loss rate: 3.52%

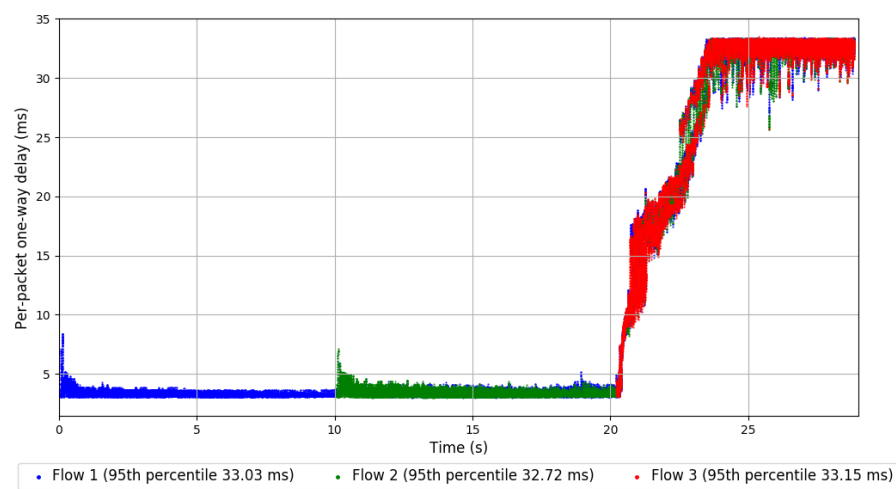
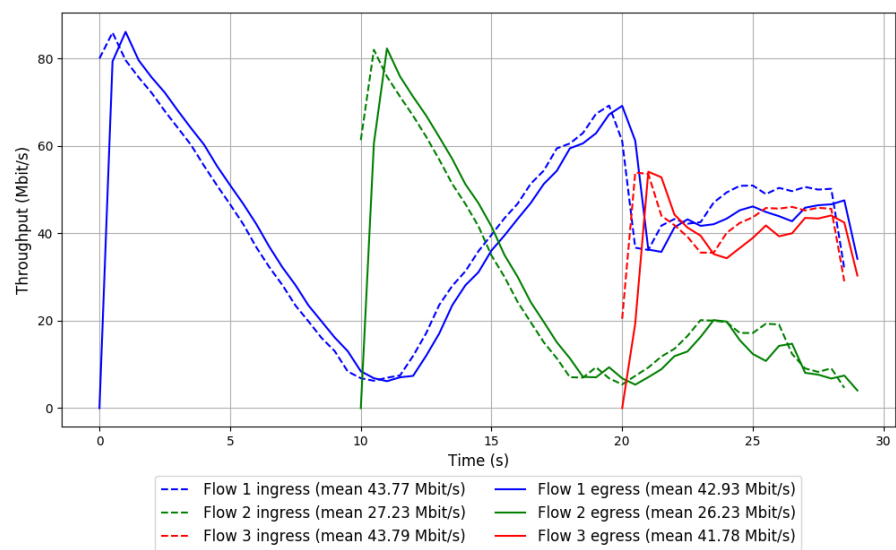
-- Flow 3:

Average throughput: 41.78 Mbit/s

95th percentile per-packet one-way delay: 33.145 ms

Loss rate: 4.27%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

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

End at: 2019-11-24 09:25:01

Local clock offset: -5.62 ms

Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2019-11-24 09:38:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.40 Mbit/s

95th percentile per-packet one-way delay: 4.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.40 Mbit/s

95th percentile per-packet one-way delay: 4.352 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.42 Mbit/s

95th percentile per-packet one-way delay: 4.001 ms

Loss rate: 0.00%

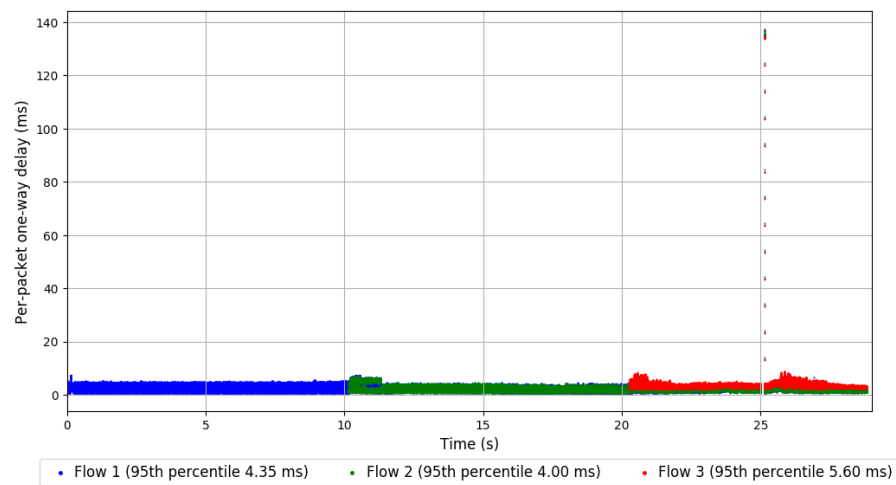
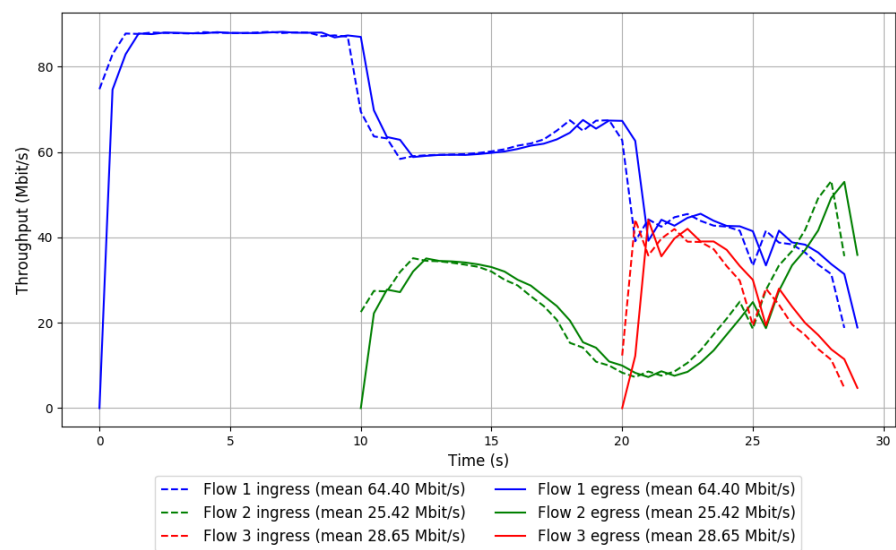
-- Flow 3:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 5.598 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 07:23:12

End at: 2019-11-24 07:23:42

Local clock offset: -7.257 ms

Remote clock offset: 0.668 ms

# Below is generated by plot.py at 2019-11-24 09:38:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 24.309 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.07 Mbit/s

95th percentile per-packet one-way delay: 22.332 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 48.17 Mbit/s

95th percentile per-packet one-way delay: 25.617 ms

Loss rate: 0.00%

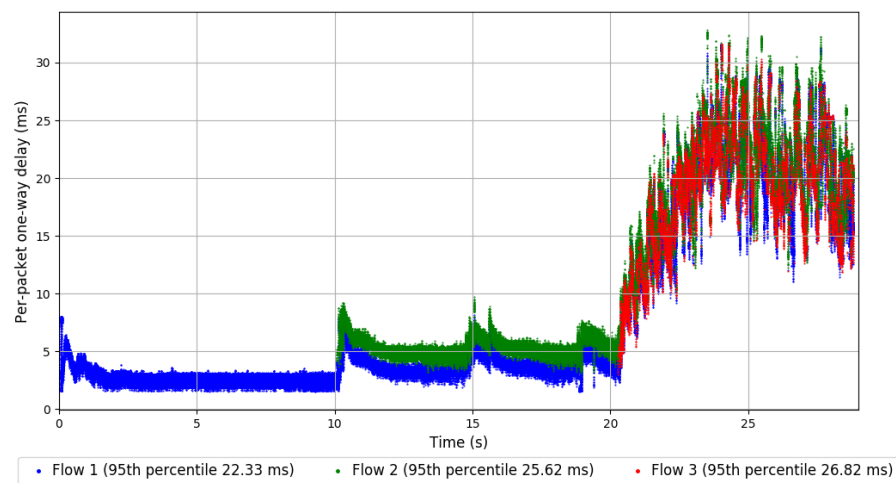
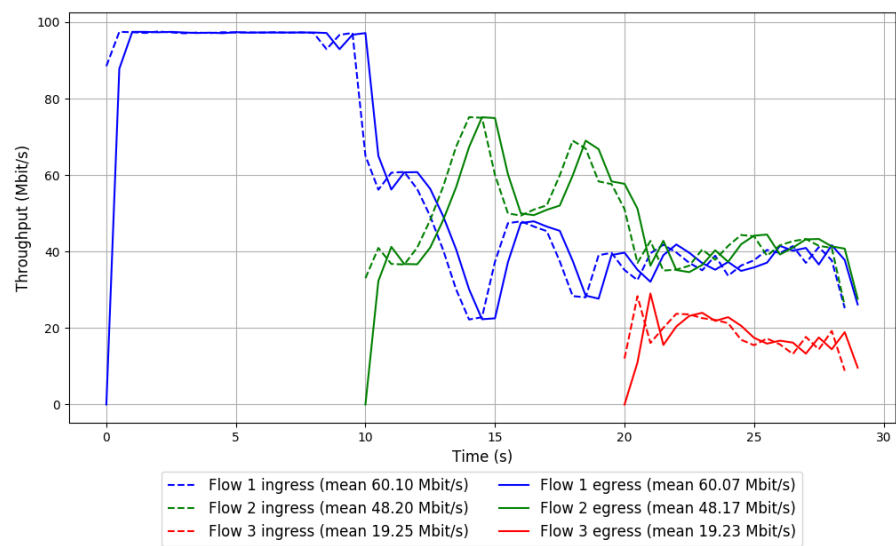
-- Flow 3:

Average throughput: 19.23 Mbit/s

95th percentile per-packet one-way delay: 26.823 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 07:50:25

End at: 2019-11-24 07:50:55

Local clock offset: -6.609 ms

Remote clock offset: 0.791 ms

# Below is generated by plot.py at 2019-11-24 09:39:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.06 Mbit/s

95th percentile per-packet one-way delay: 25.087 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 22.023 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 28.075 ms

Loss rate: 0.23%

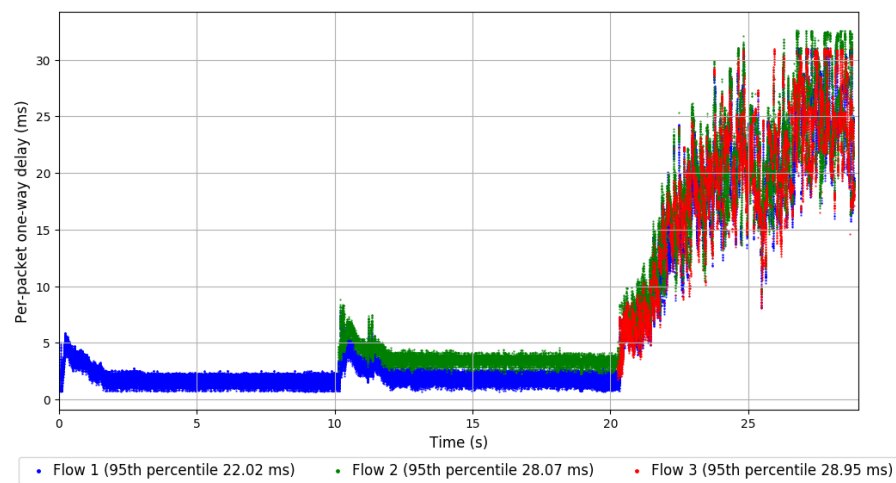
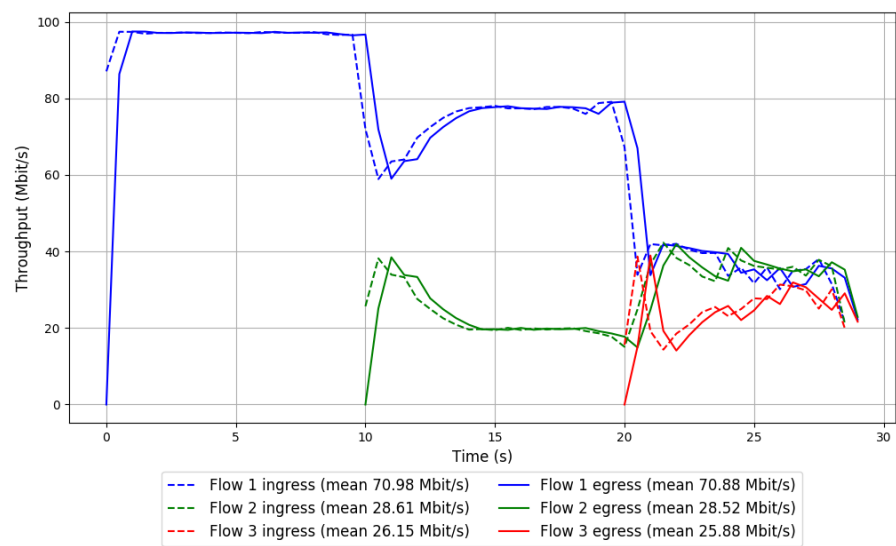
-- Flow 3:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 28.950 ms

Loss rate: 0.81%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 08:17:35

End at: 2019-11-24 08:18:05

Local clock offset: -6.486 ms

Remote clock offset: 0.727 ms

# Below is generated by plot.py at 2019-11-24 09:39:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.83 Mbit/s

95th percentile per-packet one-way delay: 21.767 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 20.063 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 22.947 ms

Loss rate: 0.01%

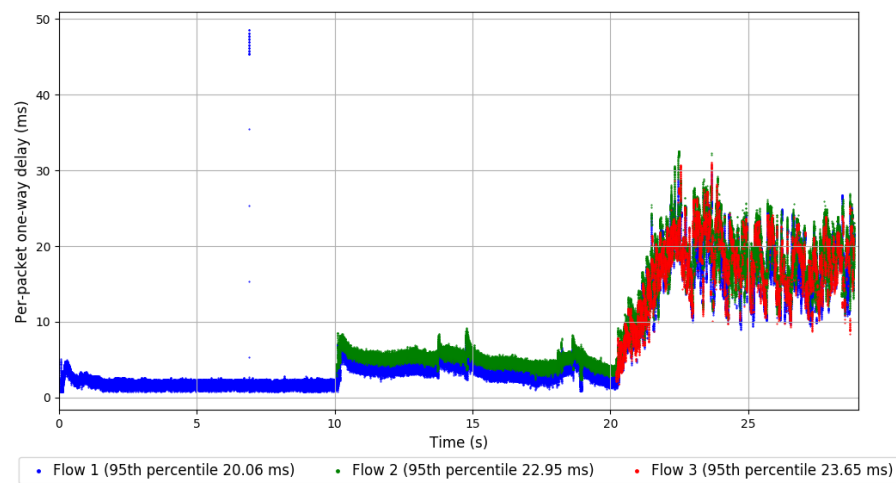
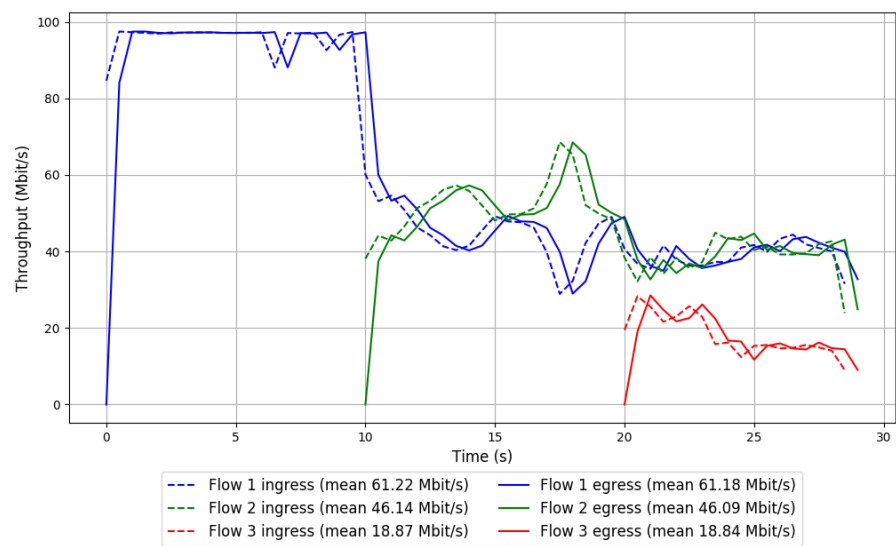
-- Flow 3:

Average throughput: 18.84 Mbit/s

95th percentile per-packet one-way delay: 23.648 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

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

End at: 2019-11-24 08:45:14

Local clock offset: -6.732 ms

Remote clock offset: 0.603 ms

# Below is generated by plot.py at 2019-11-24 09:39:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 27.573 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 64.82 Mbit/s

95th percentile per-packet one-way delay: 24.816 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 28.984 ms

Loss rate: 0.16%

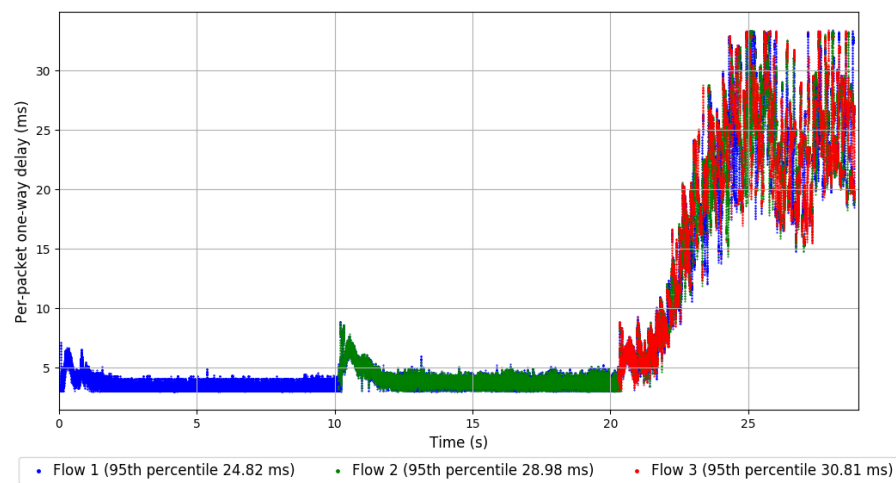
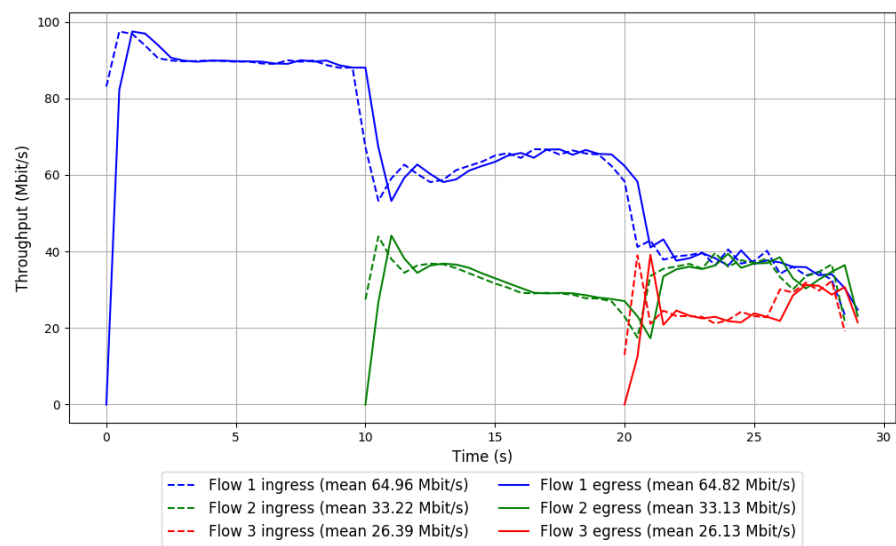
-- Flow 3:

Average throughput: 26.13 Mbit/s

95th percentile per-packet one-way delay: 30.814 ms

Loss rate: 0.71%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

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

End at: 2019-11-24 09:12:27

Local clock offset: -5.33 ms

Remote clock offset: 0.511 ms

# Below is generated by plot.py at 2019-11-24 09:39:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.06 Mbit/s

95th percentile per-packet one-way delay: 26.778 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 24.208 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 44.72 Mbit/s

95th percentile per-packet one-way delay: 27.828 ms

Loss rate: 0.39%

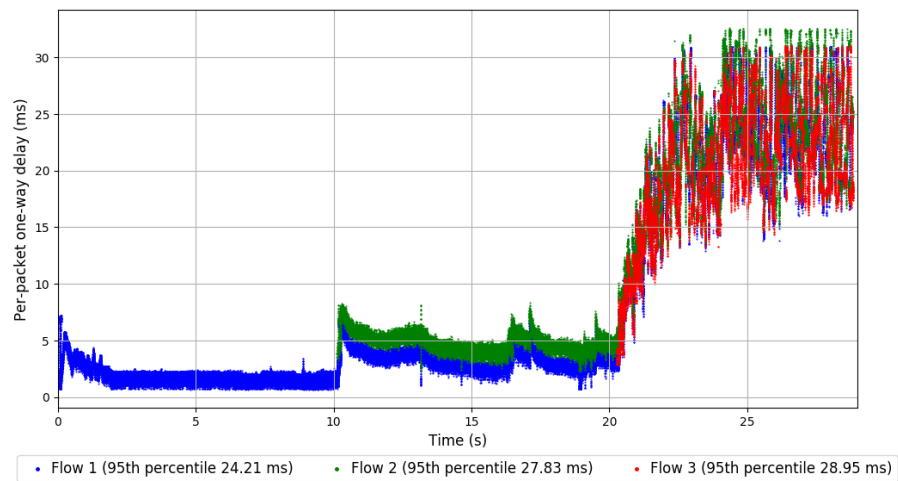
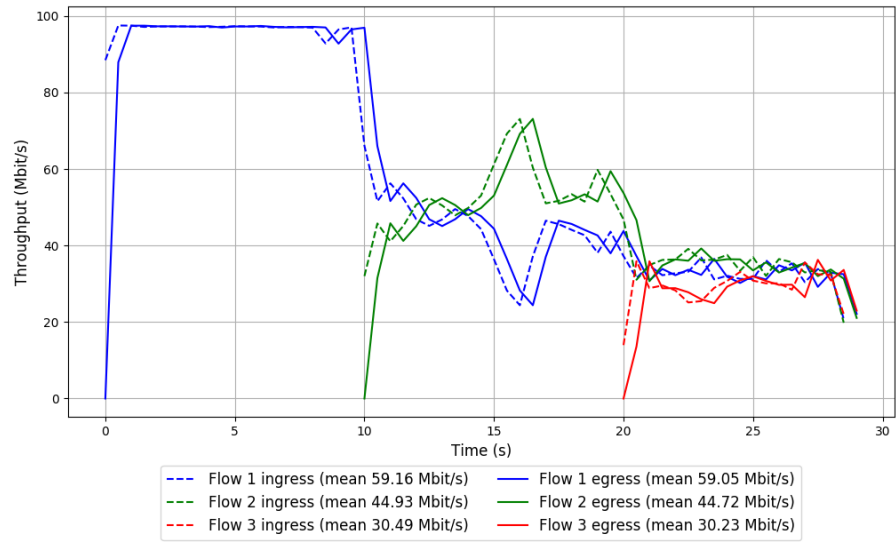
-- Flow 3:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 28.953 ms

Loss rate: 0.67%

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

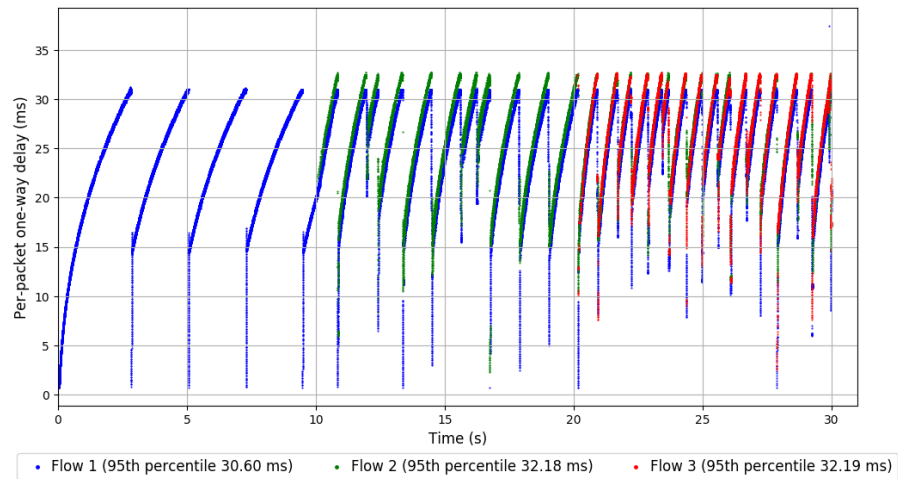
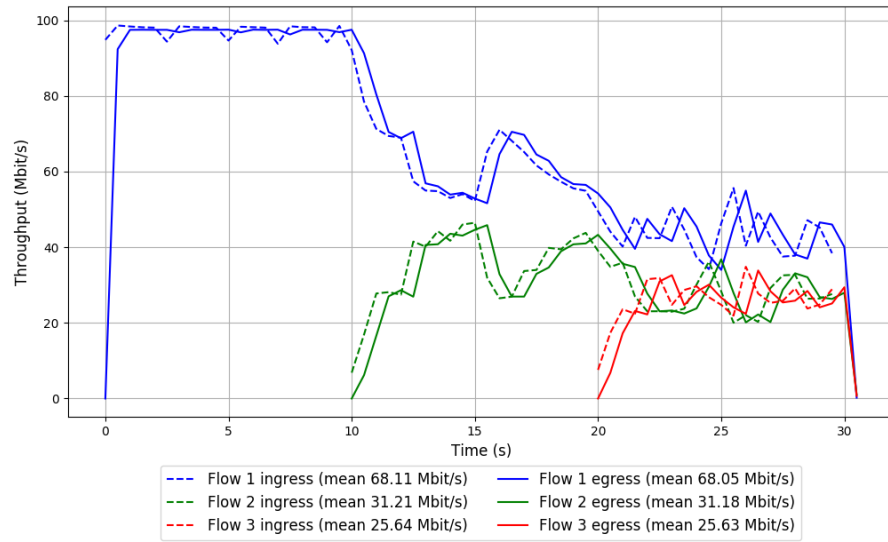


```
Run 1: Statistics of LEDBAT

Start at: 2019-11-24 07:33:22
End at: 2019-11-24 07:33:52
Local clock offset: -6.774 ms
Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-11-24 09:39:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.29 Mbit/s
95th percentile per-packet one-way delay: 31.164 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 68.05 Mbit/s
95th percentile per-packet one-way delay: 30.602 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 32.180 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 32.189 ms
Loss rate: 0.17%
```

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-11-24 08:00:34

End at: 2019-11-24 08:01:04

Local clock offset: -7.345 ms

Remote clock offset: 0.756 ms

# Below is generated by plot.py at 2019-11-24 09:39:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 32.394 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 55.51 Mbit/s

95th percentile per-packet one-way delay: 32.721 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 31.422 ms

Loss rate: 0.04%

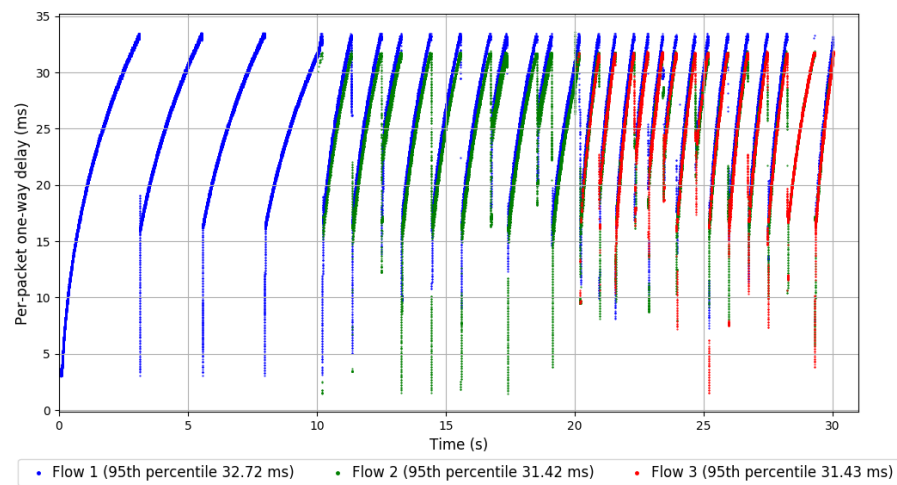
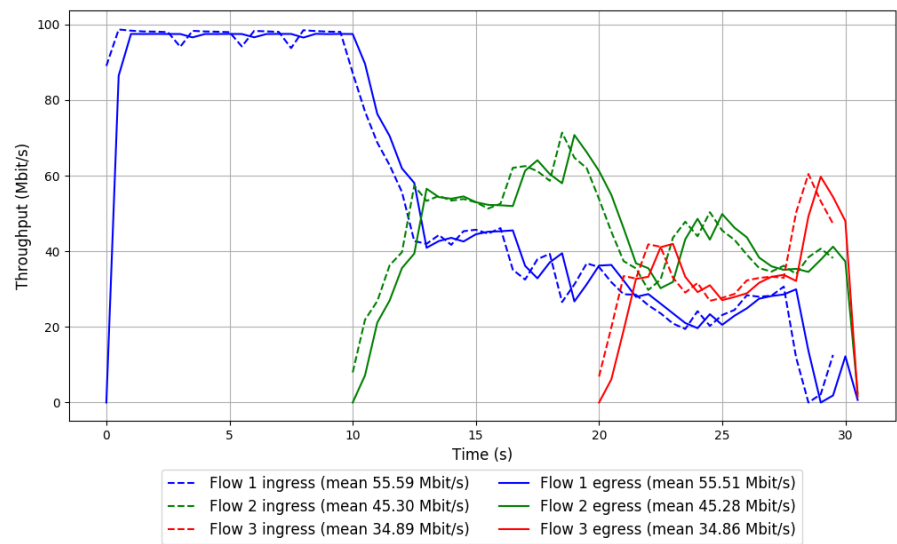
-- Flow 3:

Average throughput: 34.86 Mbit/s

95th percentile per-packet one-way delay: 31.428 ms

Loss rate: 0.06%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-11-24 08:27:44

End at: 2019-11-24 08:28:14

Local clock offset: -7.2 ms

Remote clock offset: 0.664 ms

# Below is generated by plot.py at 2019-11-24 09:39:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 32.260 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 32.698 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 31.396 ms

Loss rate: 0.04%

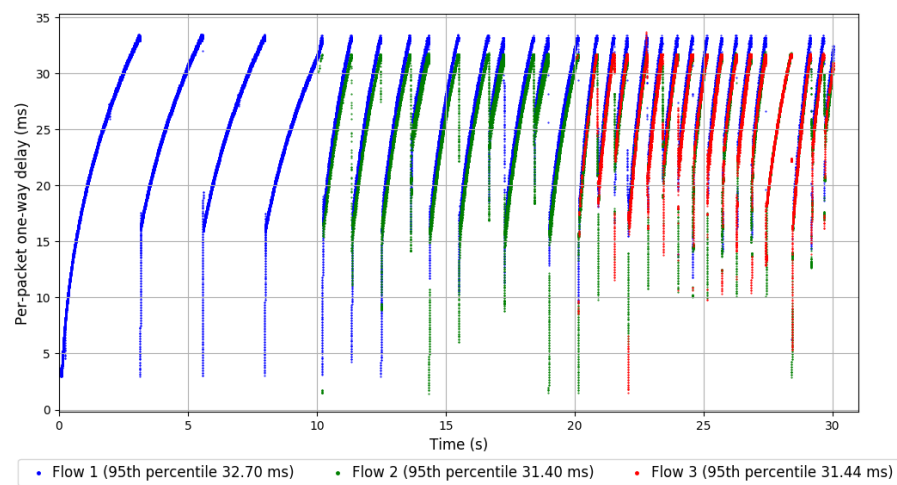
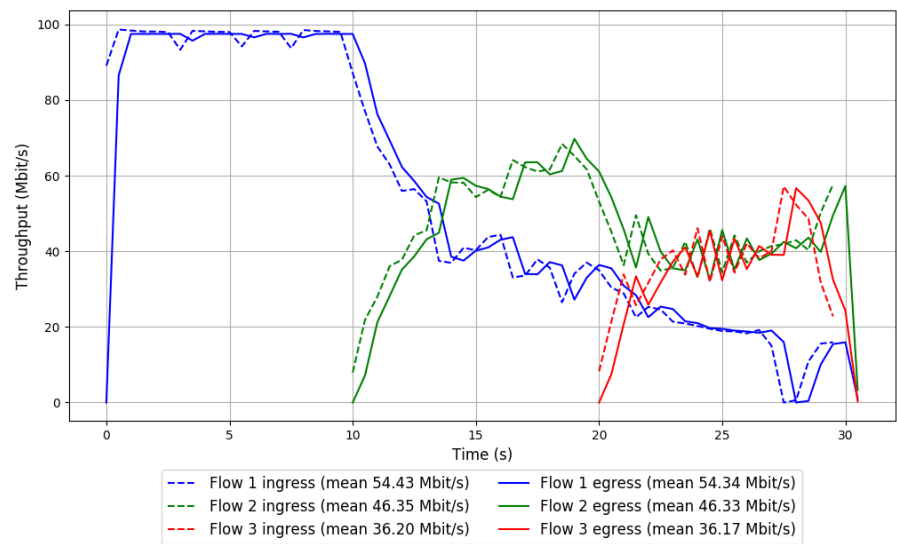
-- Flow 3:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 31.441 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link

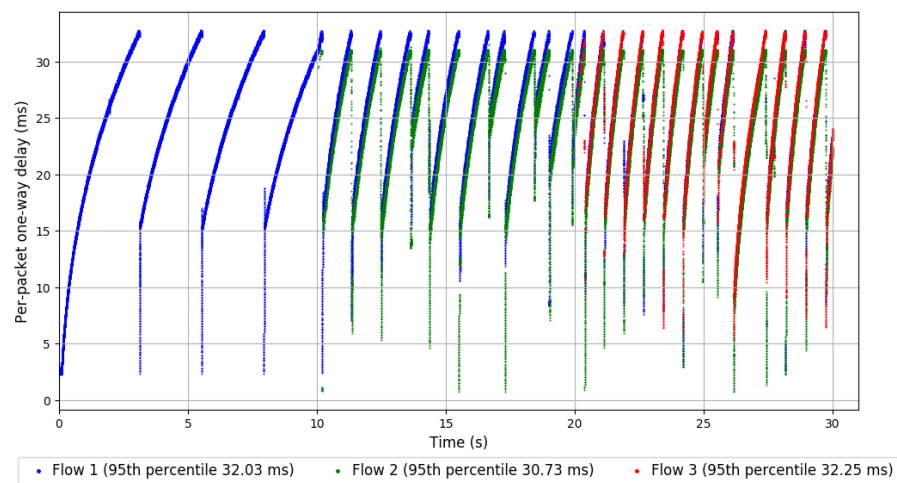
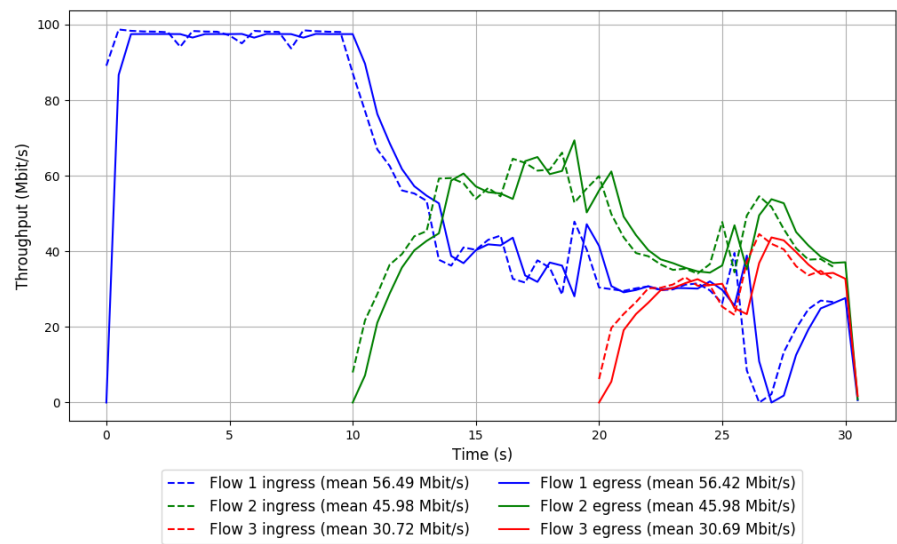


Run 4: Statistics of LEDBAT

Start at: 2019-11-24 08:54:54  
End at: 2019-11-24 08:55:24  
Local clock offset: -5.584 ms  
Remote clock offset: 0.563 ms

# Below is generated by plot.py at 2019-11-24 09:40:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.22 Mbit/s  
95th percentile per-packet one-way delay: 31.875 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 56.42 Mbit/s  
95th percentile per-packet one-way delay: 32.035 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 45.98 Mbit/s  
95th percentile per-packet one-way delay: 30.725 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 30.69 Mbit/s  
95th percentile per-packet one-way delay: 32.253 ms  
Loss rate: 0.12%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-11-24 09:22:12

End at: 2019-11-24 09:22:42

Local clock offset: -5.605 ms

Remote clock offset: 0.375 ms

# Below is generated by plot.py at 2019-11-24 09:40:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 30.959 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 30.667 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 32.56 Mbit/s

95th percentile per-packet one-way delay: 32.198 ms

Loss rate: 0.12%

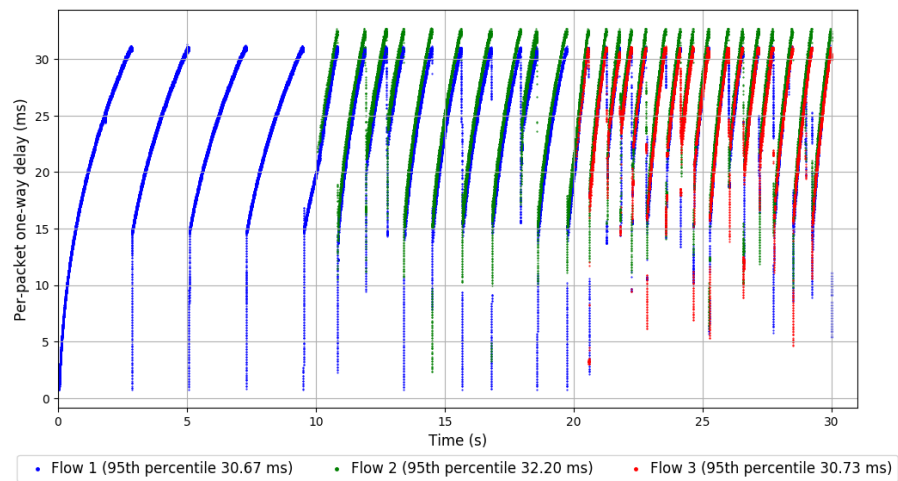
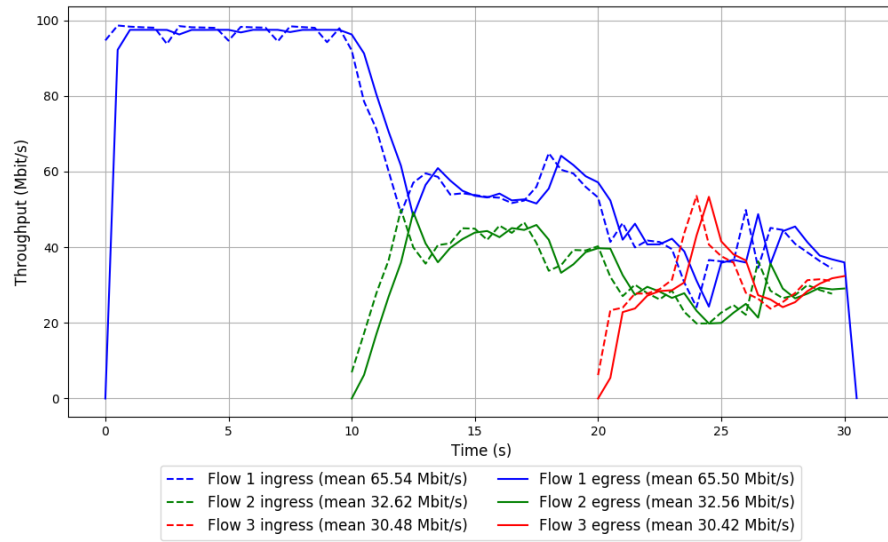
-- Flow 3:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 30.726 ms

Loss rate: 0.10%

# Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 07:29:57

End at: 2019-11-24 07:30:27

Local clock offset: -6.633 ms

Remote clock offset: 0.623 ms

# Below is generated by plot.py at 2019-11-24 09:40:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 27.12 Mbit/s

95th percentile per-packet one-way delay: 2.451 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.72 Mbit/s

95th percentile per-packet one-way delay: 0.971 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 2.599 ms

Loss rate: 0.00%

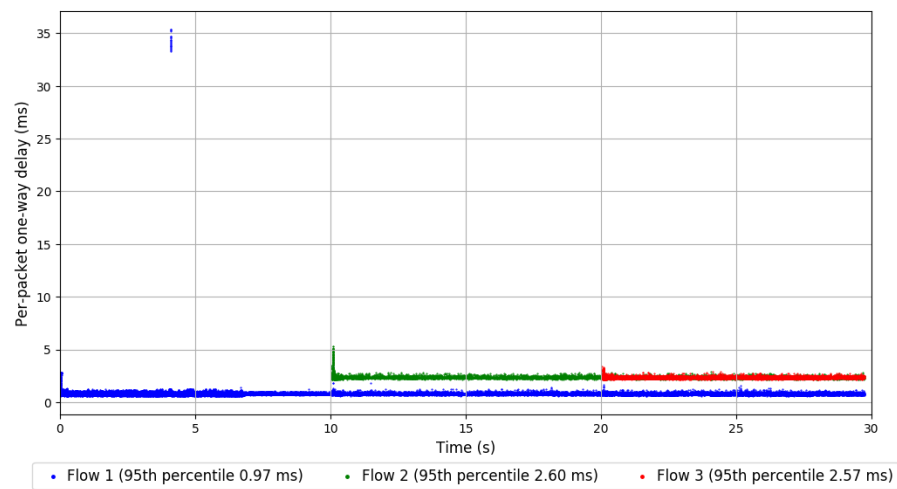
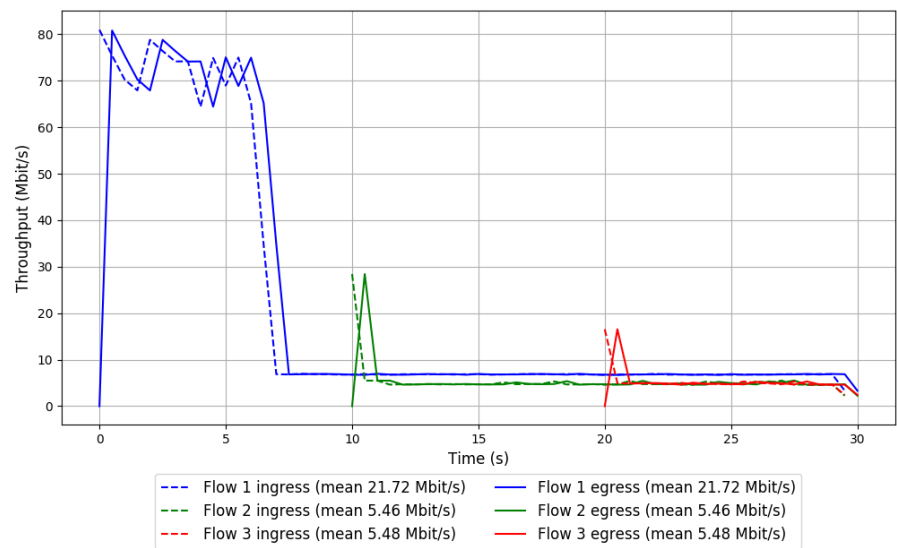
-- Flow 3:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 2.567 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 07:57:10

End at: 2019-11-24 07:57:40

Local clock offset: -6.577 ms

Remote clock offset: 0.762 ms

# Below is generated by plot.py at 2019-11-24 09:40:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 2.514 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 2.725 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.00%

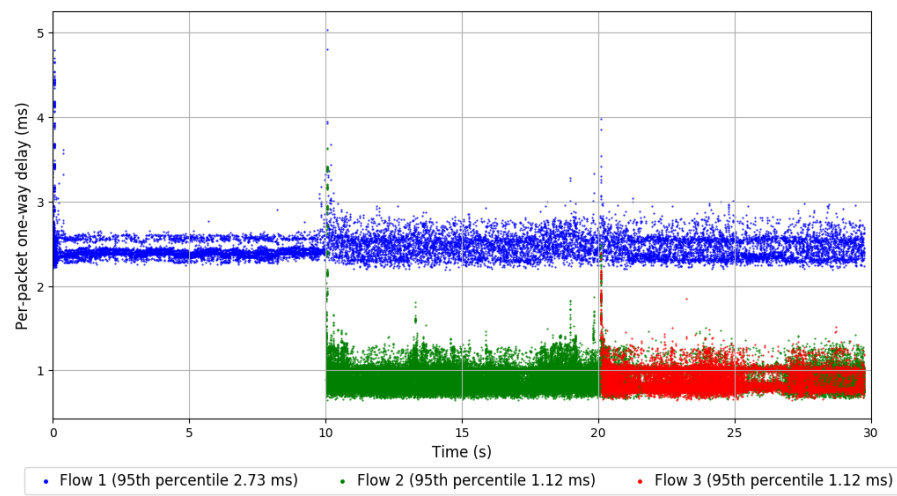
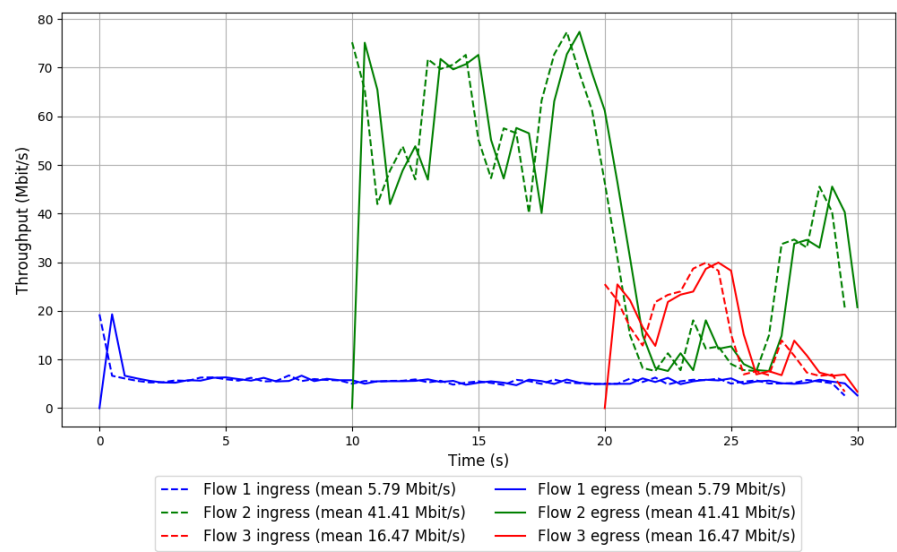
-- Flow 3:

Average throughput: 16.47 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 08:24:20

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

Local clock offset: -7.266 ms

Remote clock offset: 0.736 ms

# Below is generated by plot.py at 2019-11-24 09:40:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 27.39 Mbit/s

95th percentile per-packet one-way delay: 3.326 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.71 Mbit/s

95th percentile per-packet one-way delay: 1.909 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 3.592 ms

Loss rate: 0.00%

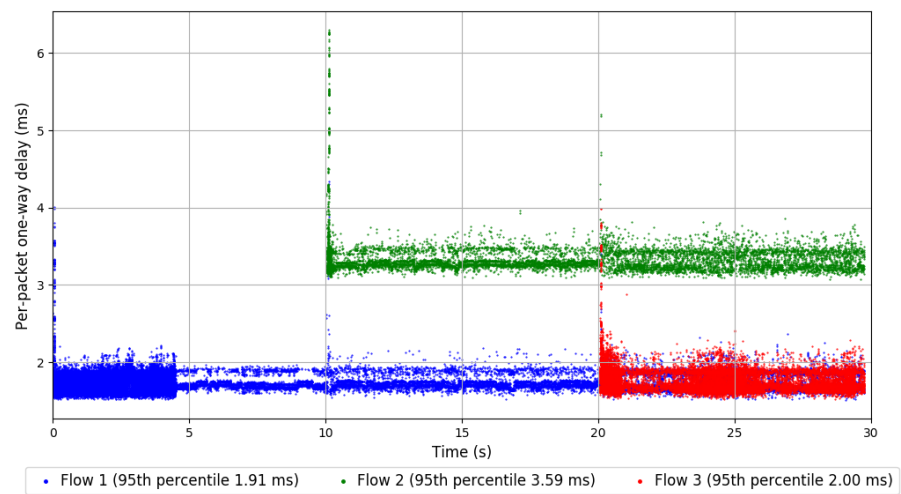
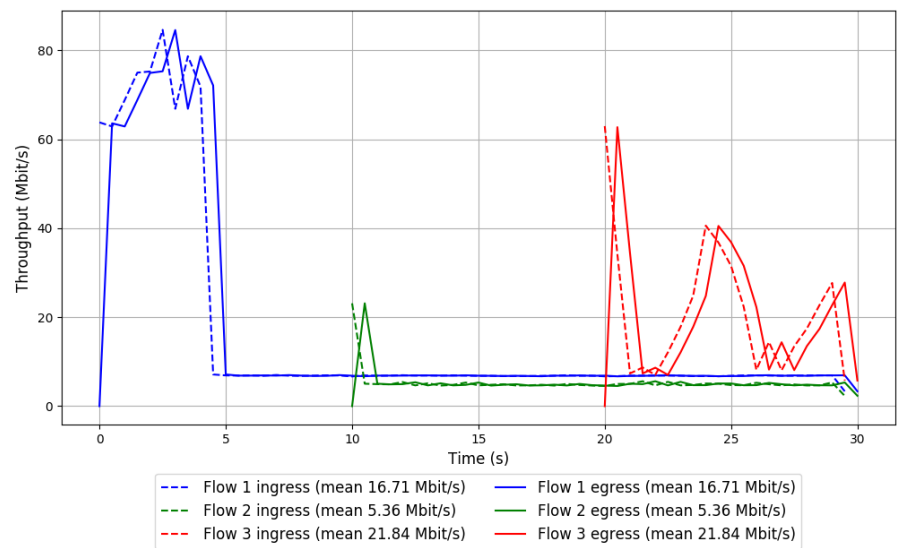
-- Flow 3:

Average throughput: 21.84 Mbit/s

95th percentile per-packet one-way delay: 1.998 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 08:51:29

End at: 2019-11-24 08:51:59

Local clock offset: -6.457 ms

Remote clock offset: 0.653 ms

# Below is generated by plot.py at 2019-11-24 09:40:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.34 Mbit/s

95th percentile per-packet one-way delay: 2.104 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 1.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 2.007 ms

Loss rate: 0.00%

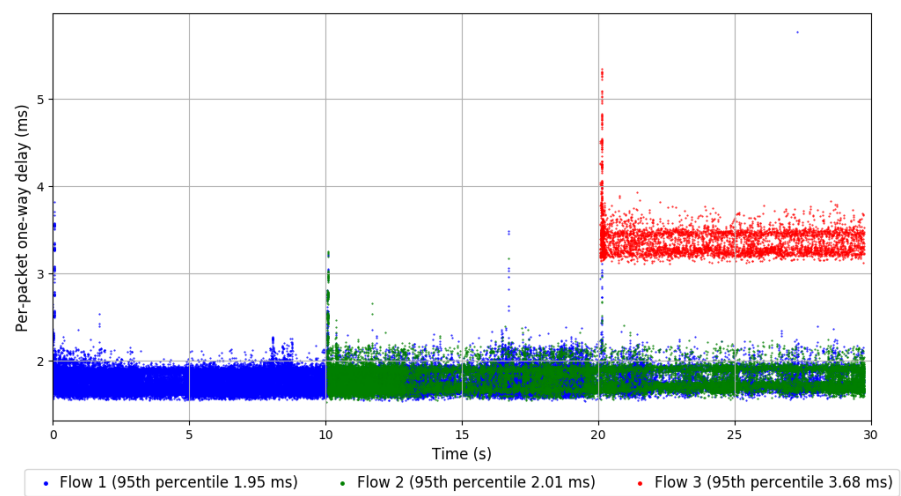
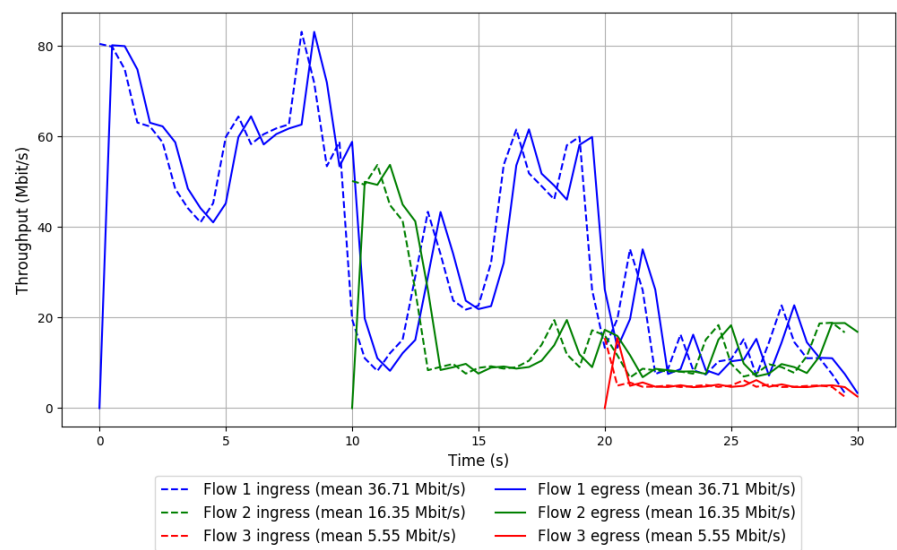
-- Flow 3:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 3.681 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 09:18:47

End at: 2019-11-24 09:19:17

Local clock offset: -5.503 ms

Remote clock offset: 0.451 ms

# Below is generated by plot.py at 2019-11-24 09:40:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 25.21 Mbit/s

95th percentile per-packet one-way delay: 2.574 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 2.652 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.35 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.00%

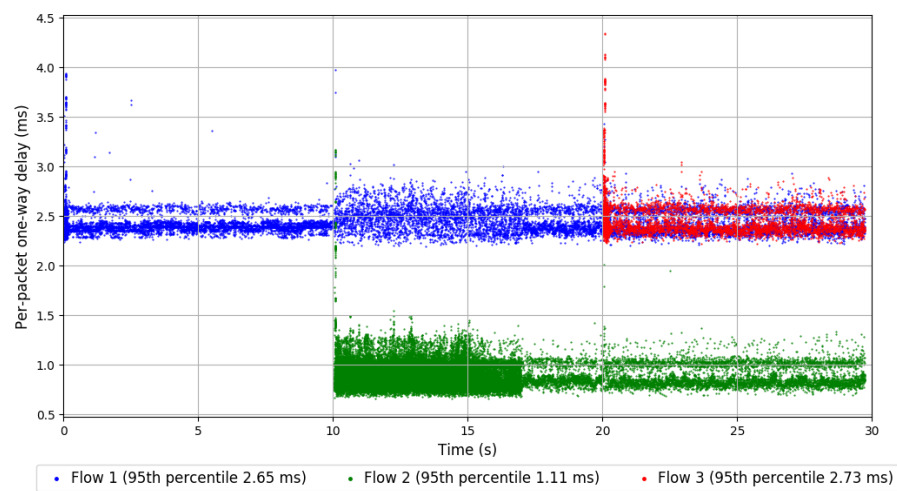
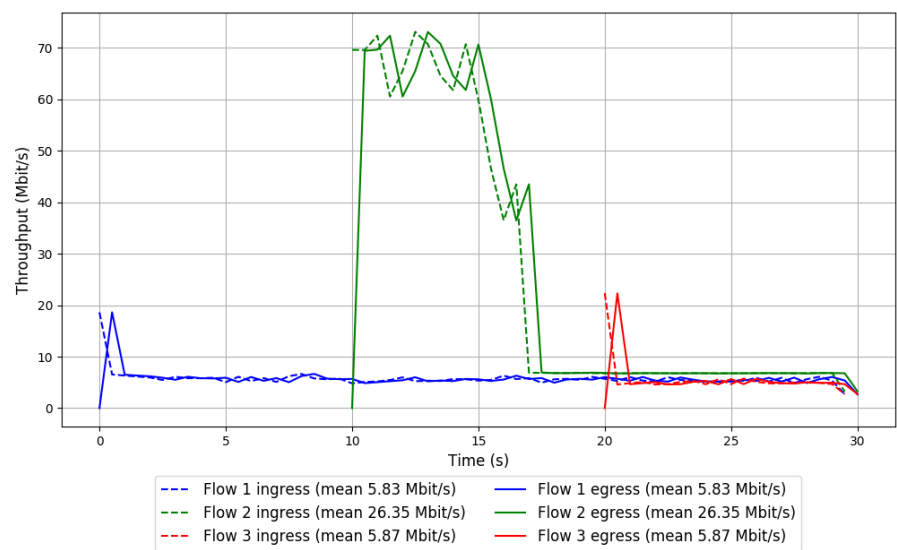
-- Flow 3:

Average throughput: 5.87 Mbit/s

95th percentile per-packet one-way delay: 2.733 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link





Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 07:18:39

End at: 2019-11-24 07:19:09

Local clock offset: -7.017 ms

Remote clock offset: 0.633 ms

# Below is generated by plot.py at 2019-11-24 09:40:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.34 Mbit/s

95th percentile per-packet one-way delay: 3.292 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 3.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 2.043 ms

Loss rate: 0.00%

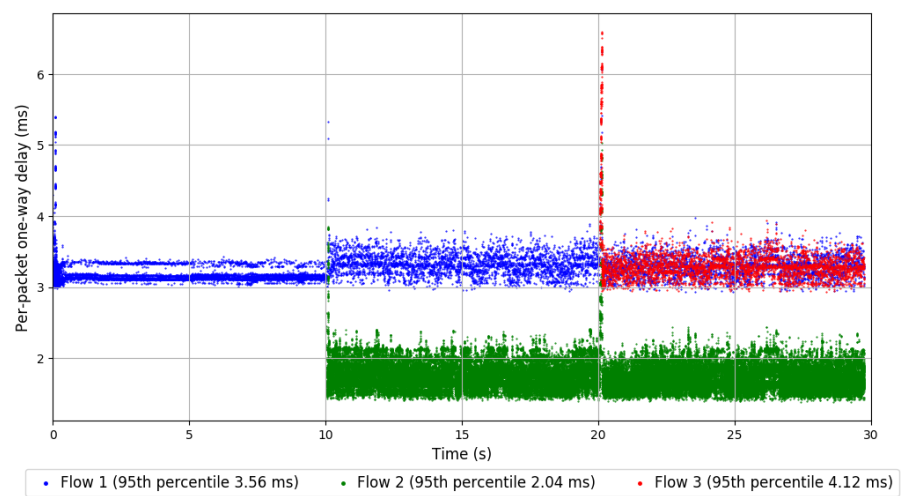
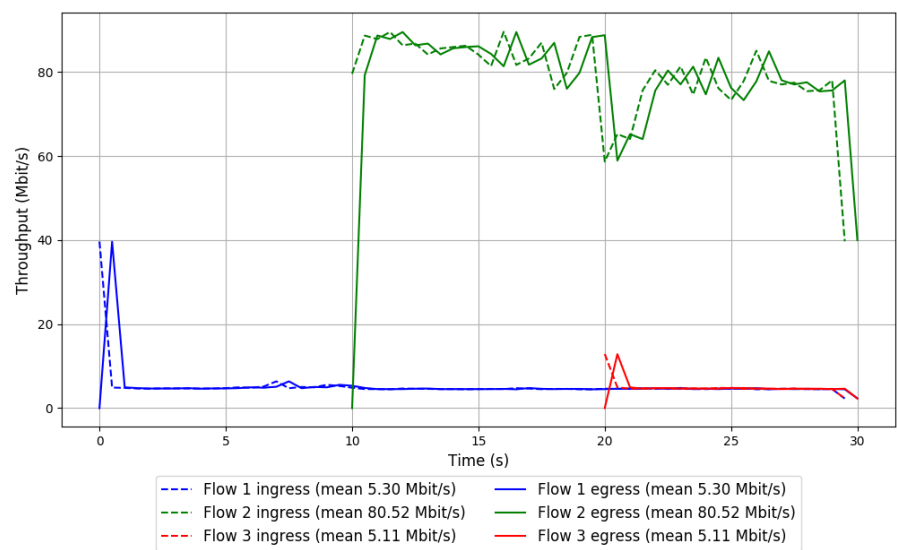
-- Flow 3:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 4.115 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 07:45:52

End at: 2019-11-24 07:46:22

Local clock offset: -6.645 ms

Remote clock offset: 0.78 ms

# Below is generated by plot.py at 2019-11-24 09:40:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.98 Mbit/s

95th percentile per-packet one-way delay: 1.254 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.16 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.80 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.00%

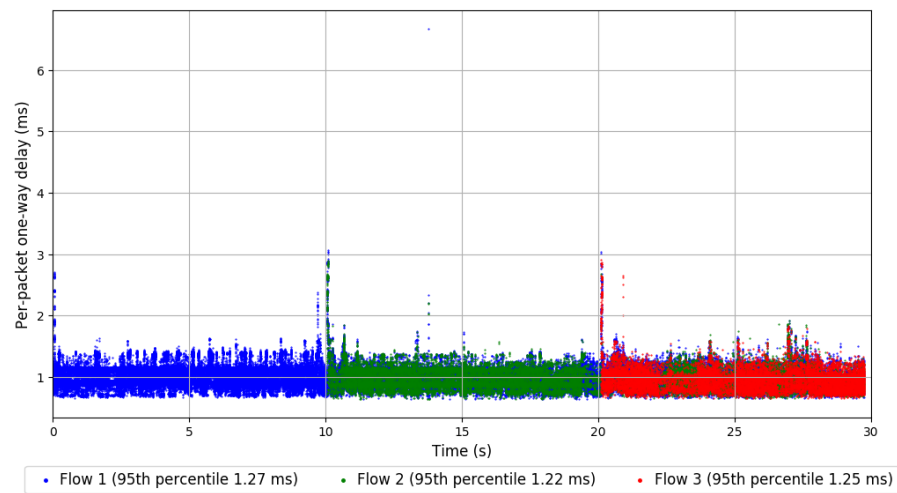
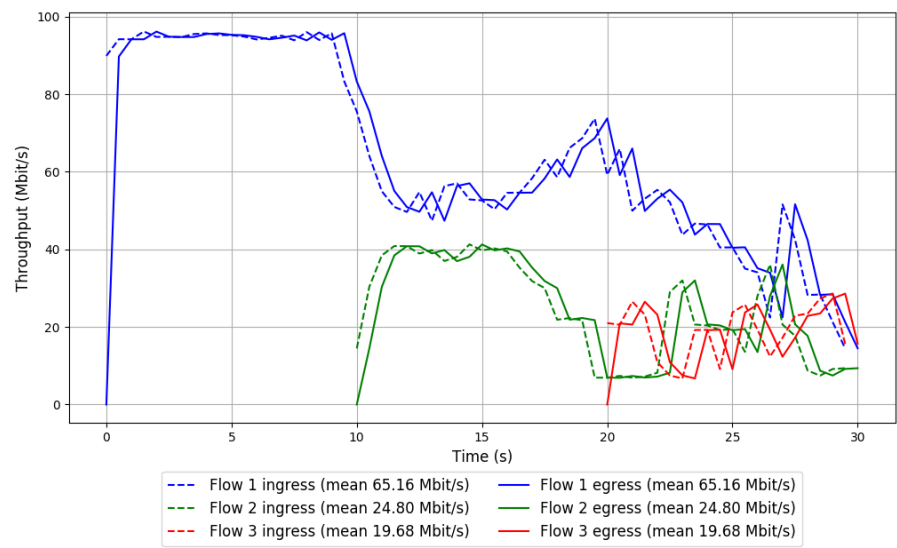
-- Flow 3:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 08:13:04

End at: 2019-11-24 08:13:34

Local clock offset: -7.339 ms

Remote clock offset: 0.71 ms

# Below is generated by plot.py at 2019-11-24 09:40:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.44 Mbit/s

95th percentile per-packet one-way delay: 2.205 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.65 Mbit/s

95th percentile per-packet one-way delay: 1.996 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.74 Mbit/s

95th percentile per-packet one-way delay: 1.852 ms

Loss rate: 0.00%

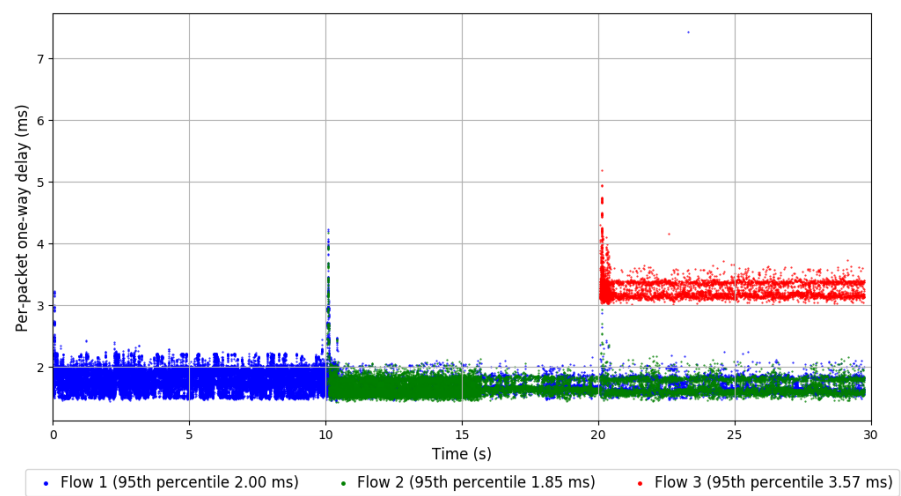
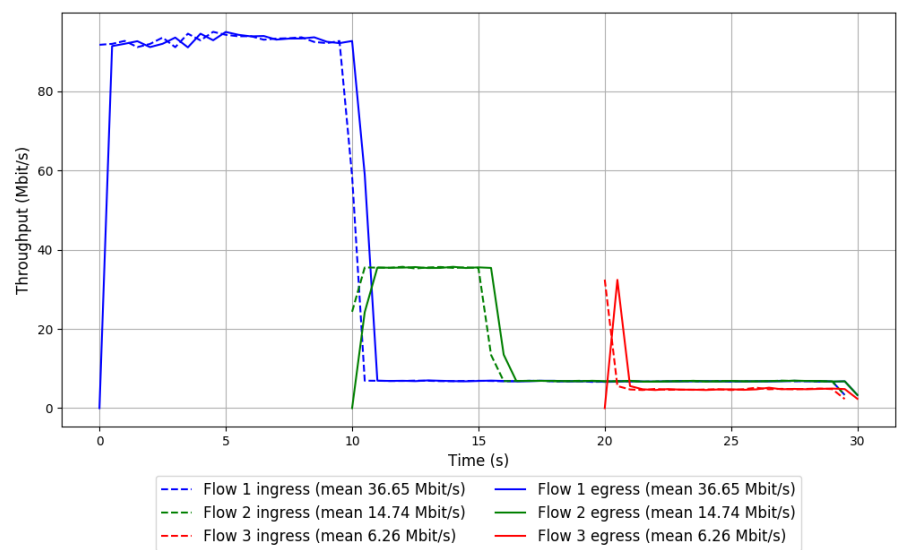
-- Flow 3:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 3.569 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 08:40:13

End at: 2019-11-24 08:40:43

Local clock offset: -7.123 ms

Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-11-24 09:40:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.61 Mbit/s

95th percentile per-packet one-way delay: 3.338 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.17 Mbit/s

95th percentile per-packet one-way delay: 3.504 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 3.534 ms

Loss rate: 0.00%

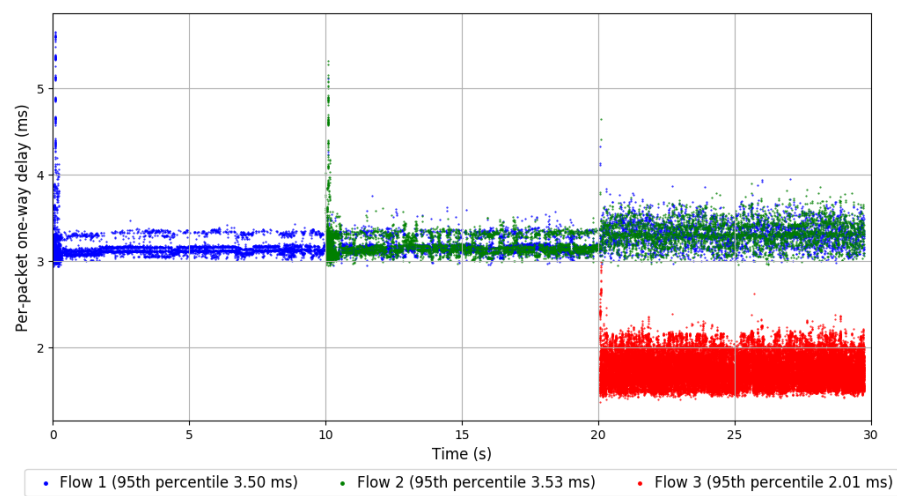
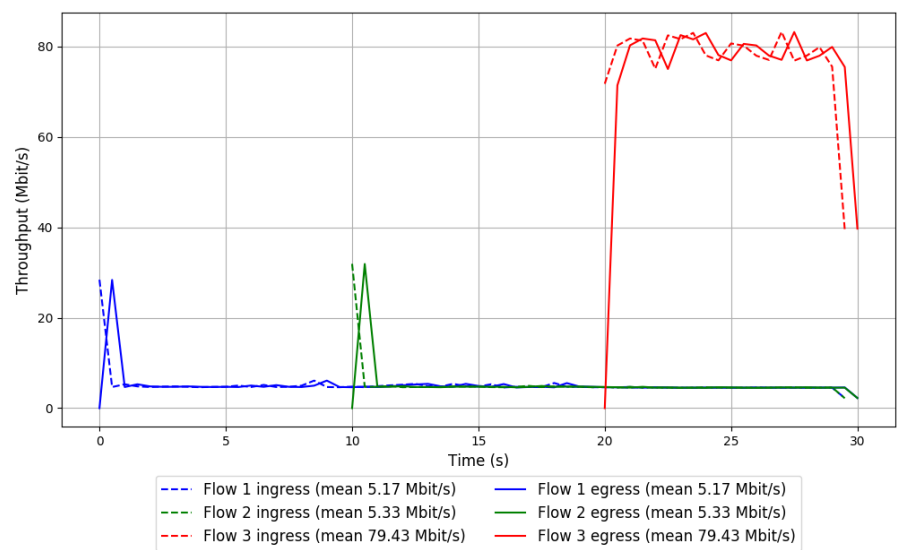
-- Flow 3:

Average throughput: 79.43 Mbit/s

95th percentile per-packet one-way delay: 2.008 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

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

End at: 2019-11-24 09:07:54

Local clock offset: -5.274 ms

Remote clock offset: 0.403 ms

# Below is generated by plot.py at 2019-11-24 09:40:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.78 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.08 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 2.776 ms

Loss rate: 0.00%

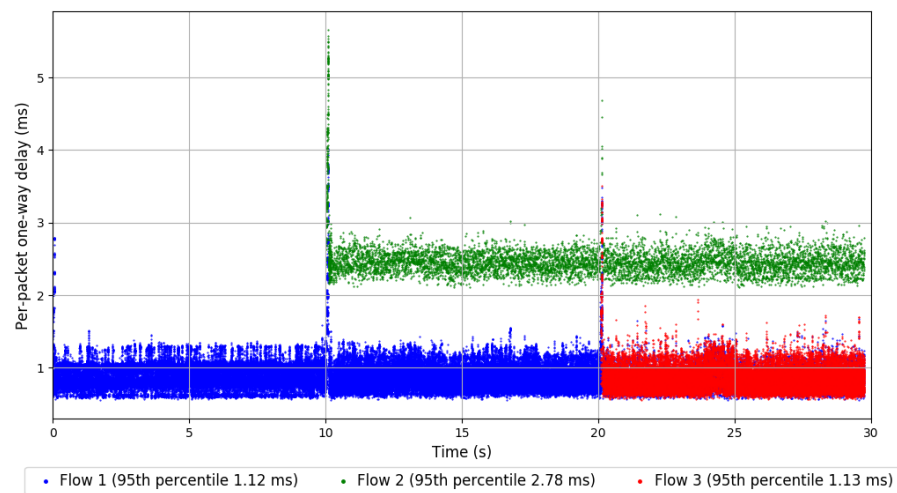
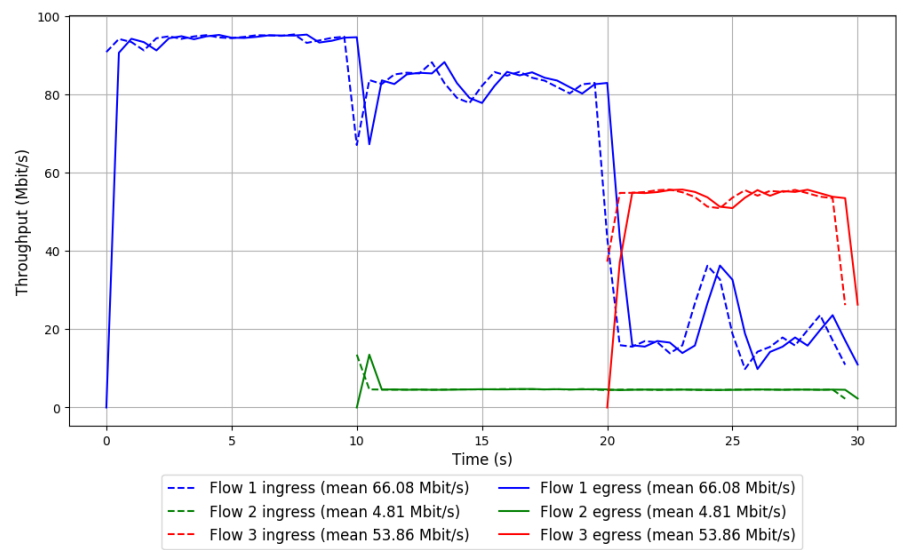
-- Flow 3:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 07:19:47

End at: 2019-11-24 07:20:17

Local clock offset: -6.287 ms

Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-11-24 09:40:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 2.521 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.16 Mbit/s

95th percentile per-packet one-way delay: 1.396 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 2.761 ms

Loss rate: 0.00%

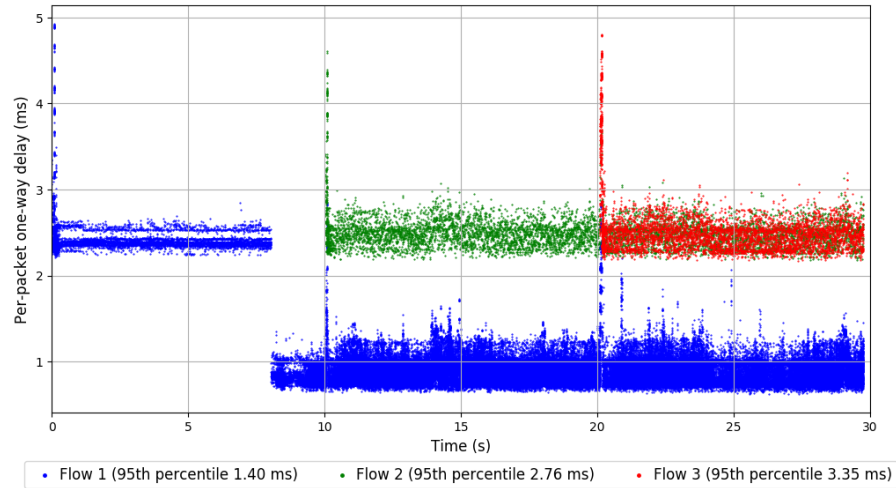
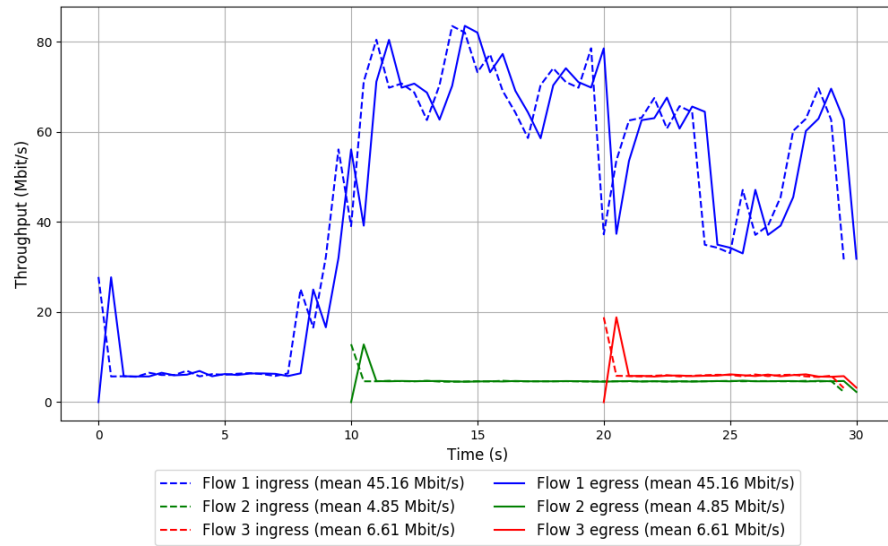
-- Flow 3:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 3.349 ms

Loss rate: 0.00%

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 07:47:01

End at: 2019-11-24 07:47:31

Local clock offset: -7.454 ms

Remote clock offset: 0.768 ms

# Below is generated by plot.py at 2019-11-24 09:40:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 3.428 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 3.412 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 3.433 ms

Loss rate: 0.00%

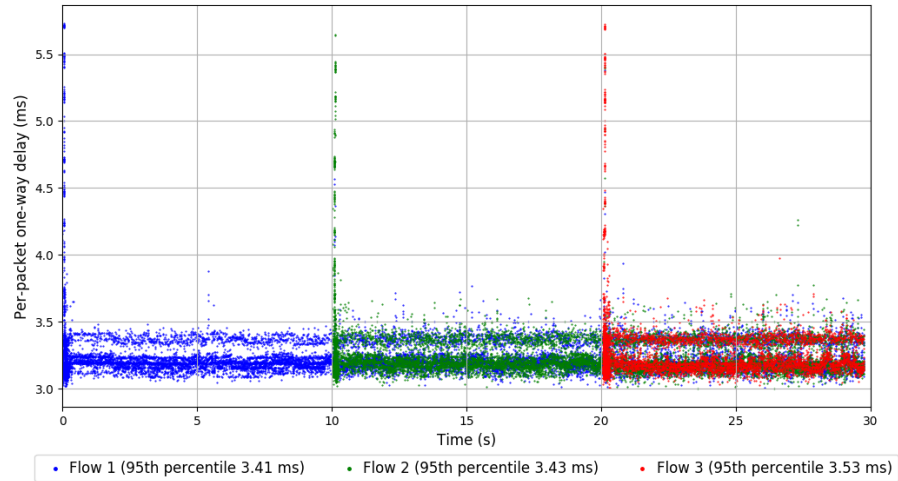
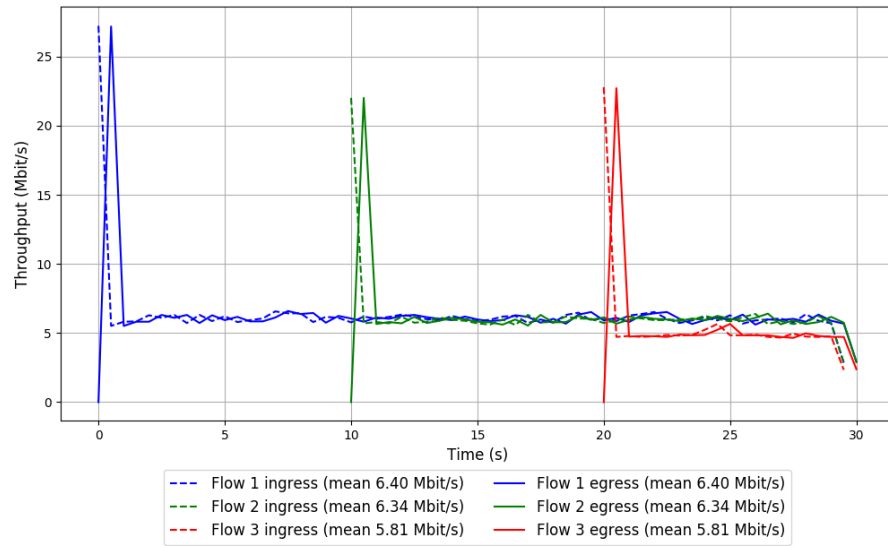
-- Flow 3:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 3.526 ms

Loss rate: 0.00%

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



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 08:14:11

End at: 2019-11-24 08:14:41

Local clock offset: -7.285 ms

Remote clock offset: 0.707 ms

# Below is generated by plot.py at 2019-11-24 09:40:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 3.391 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 3.381 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 3.394 ms

Loss rate: 0.00%

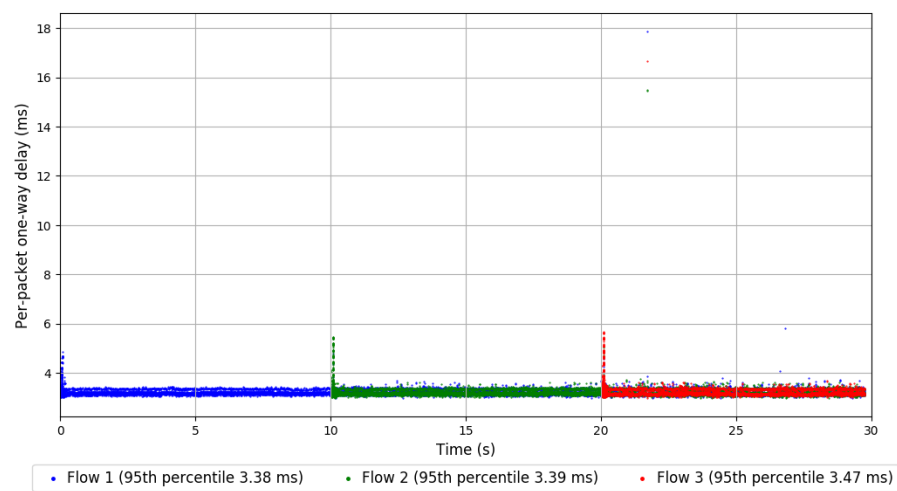
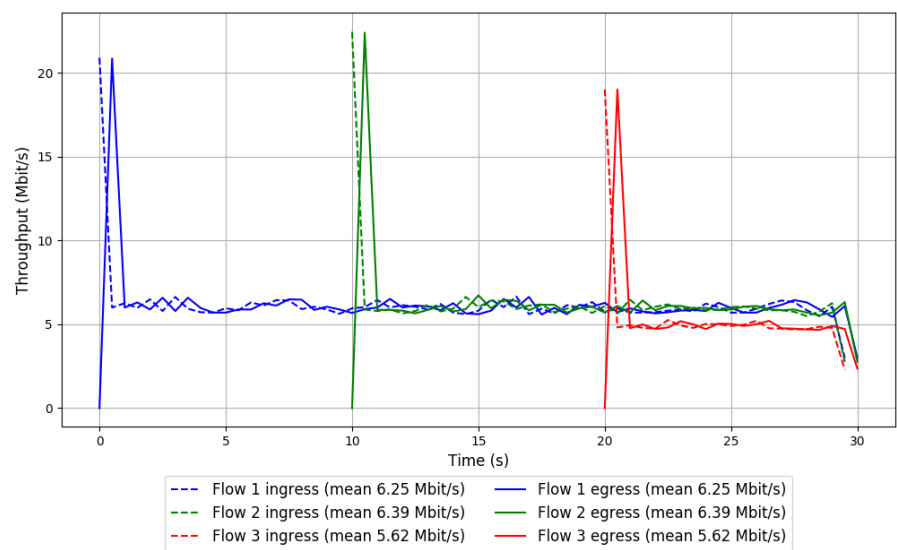
-- Flow 3:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 3.469 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 08:41:20

End at: 2019-11-24 08:41:50

Local clock offset: -6.306 ms

Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-11-24 09:40:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 2.735 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 2.715 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 2.747 ms

Loss rate: 0.00%

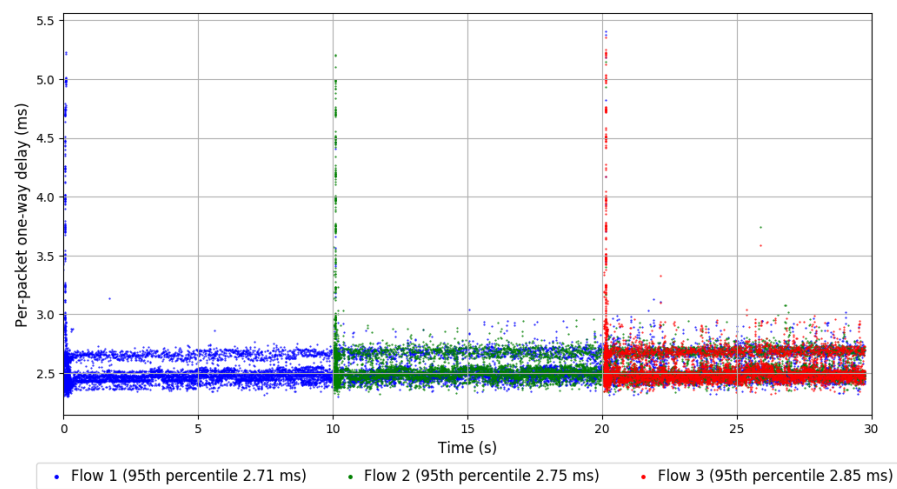
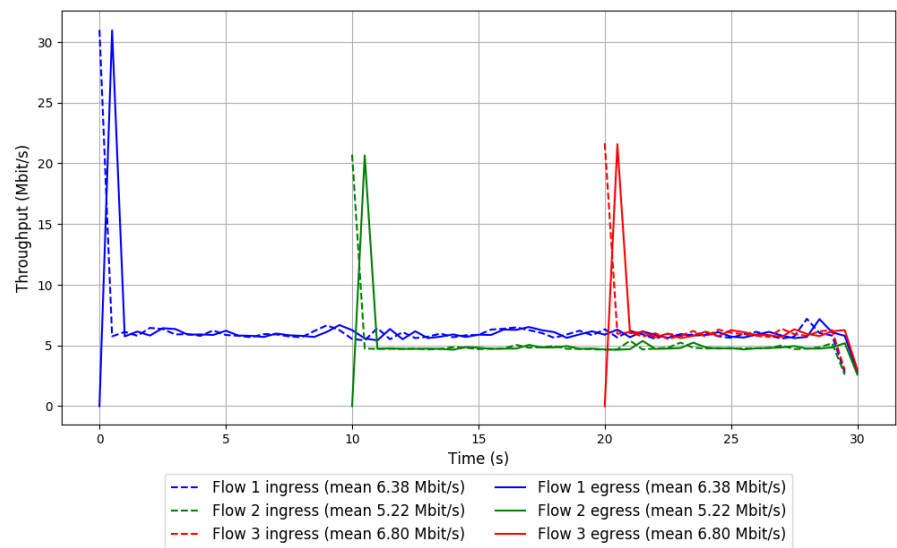
-- Flow 3:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 2.853 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 09:08:33

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

Local clock offset: -5.25 ms

Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-11-24 09:40:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 28.03 Mbit/s

95th percentile per-packet one-way delay: 2.651 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 2.753 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 2.776 ms

Loss rate: 0.00%

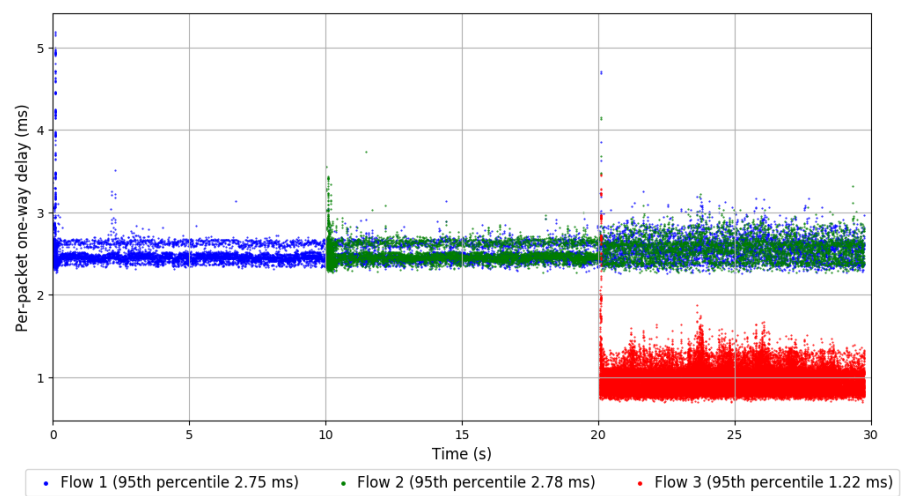
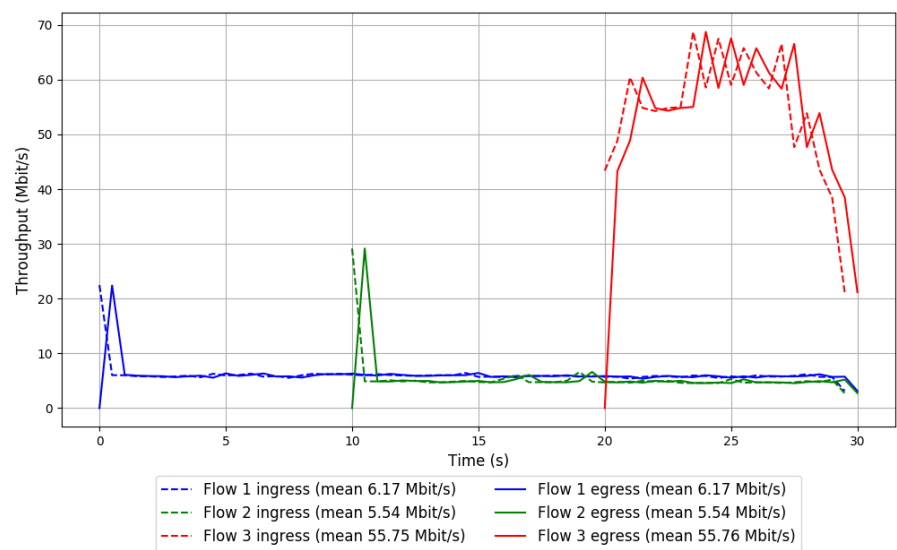
-- Flow 3:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 1.220 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

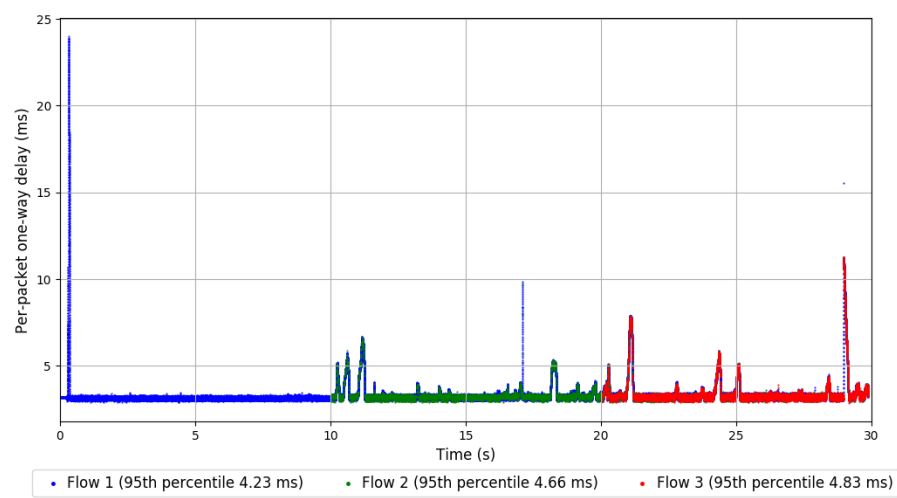
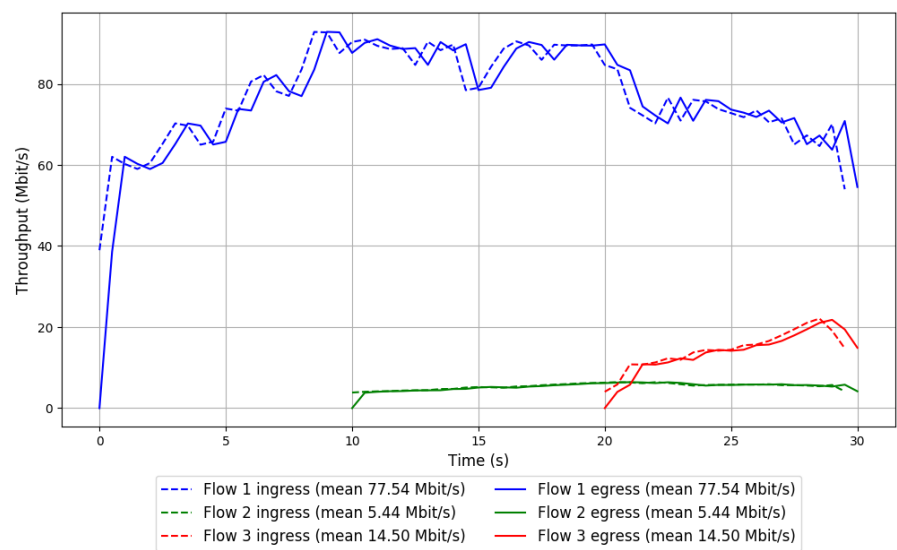


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 07:25:27
End at: 2019-11-24 07:25:57
Local clock offset: -7.262 ms
Remote clock offset: 0.727 ms

# Below is generated by plot.py at 2019-11-24 09:41:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 4.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.54 Mbit/s
95th percentile per-packet one-way delay: 4.227 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 4.657 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.50 Mbit/s
95th percentile per-packet one-way delay: 4.830 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 07:52:39

End at: 2019-11-24 07:53:09

Local clock offset: -6.677 ms

Remote clock offset: 0.759 ms

# Below is generated by plot.py at 2019-11-24 09:41:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 7.416 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.50 Mbit/s

95th percentile per-packet one-way delay: 5.152 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.18 Mbit/s

95th percentile per-packet one-way delay: 10.349 ms

Loss rate: 0.00%

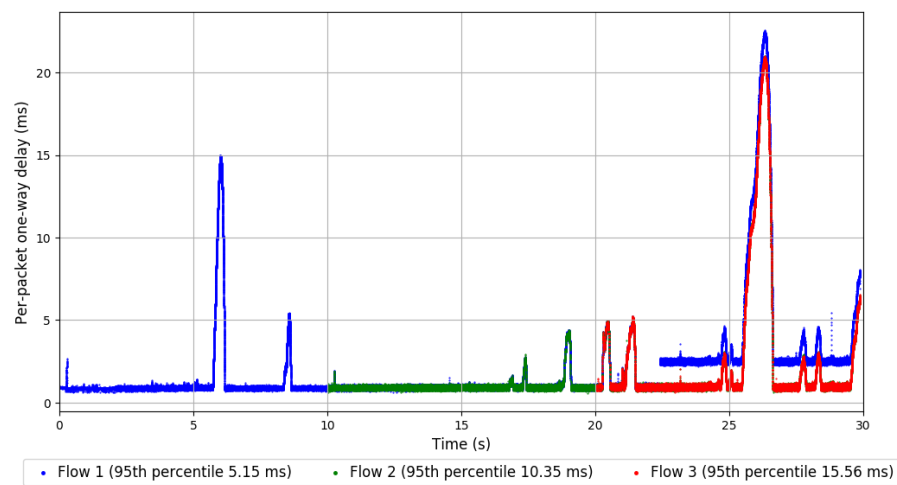
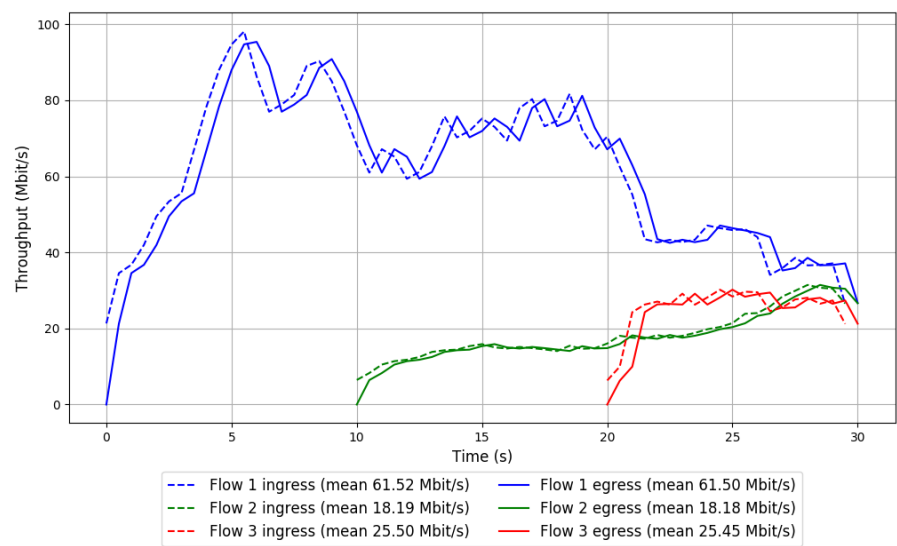
-- Flow 3:

Average throughput: 25.45 Mbit/s

95th percentile per-packet one-way delay: 15.563 ms

Loss rate: 0.12%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 08:19:49

End at: 2019-11-24 08:20:19

Local clock offset: -6.462 ms

Remote clock offset: 0.686 ms

# Below is generated by plot.py at 2019-11-24 09:41:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 9.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.70 Mbit/s

95th percentile per-packet one-way delay: 8.253 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.36 Mbit/s

95th percentile per-packet one-way delay: 12.270 ms

Loss rate: 0.00%

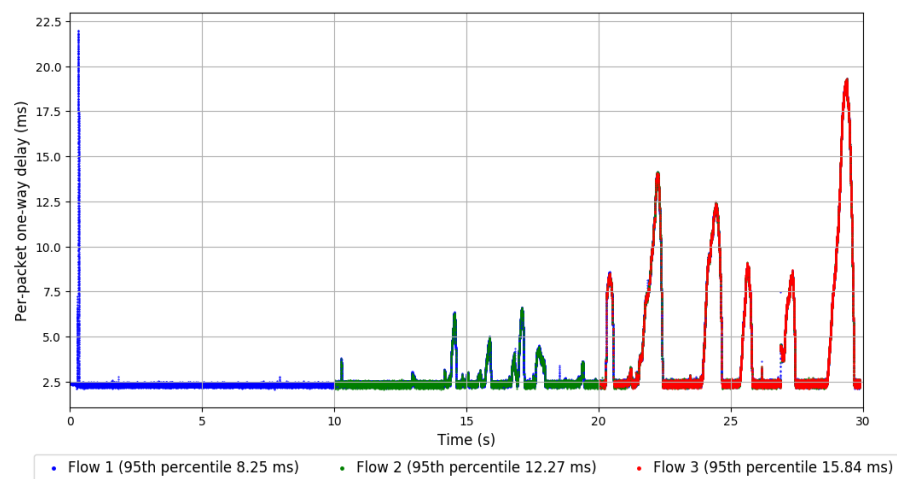
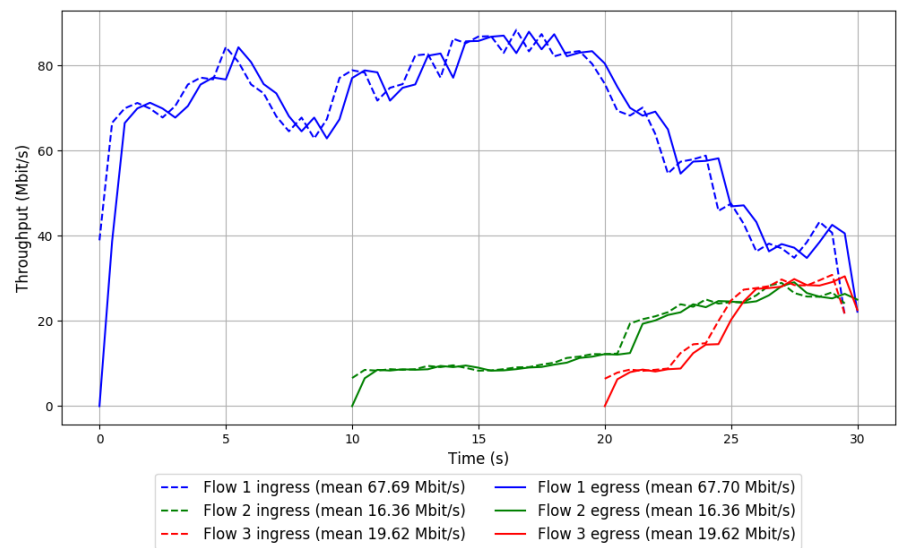
-- Flow 3:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 15.836 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 08:46:58

End at: 2019-11-24 08:47:28

Local clock offset: -5.895 ms

Remote clock offset: 0.592 ms

# Below is generated by plot.py at 2019-11-24 09:41:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 9.327 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.48 Mbit/s

95th percentile per-packet one-way delay: 5.622 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.11 Mbit/s

95th percentile per-packet one-way delay: 15.551 ms

Loss rate: 0.00%

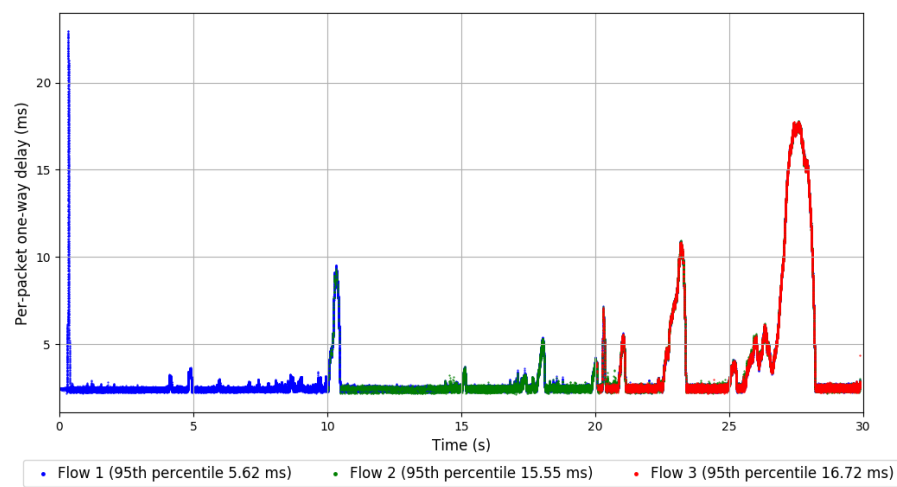
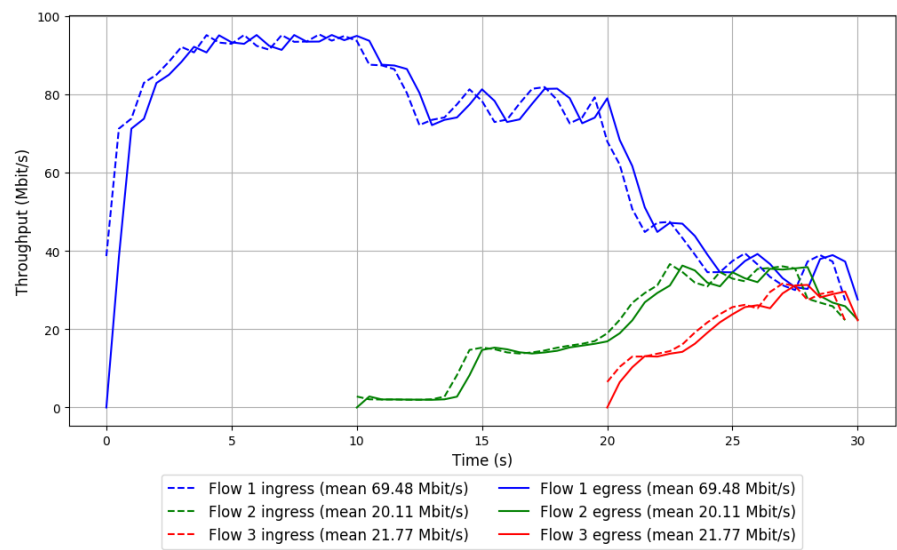
-- Flow 3:

Average throughput: 21.77 Mbit/s

95th percentile per-packet one-way delay: 16.724 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 09:14:12

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

Local clock offset: -5.408 ms

Remote clock offset: 0.448 ms

# Below is generated by plot.py at 2019-11-24 09:41:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.84 Mbit/s

95th percentile per-packet one-way delay: 7.939 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 7.753 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 7.845 ms

Loss rate: 0.00%

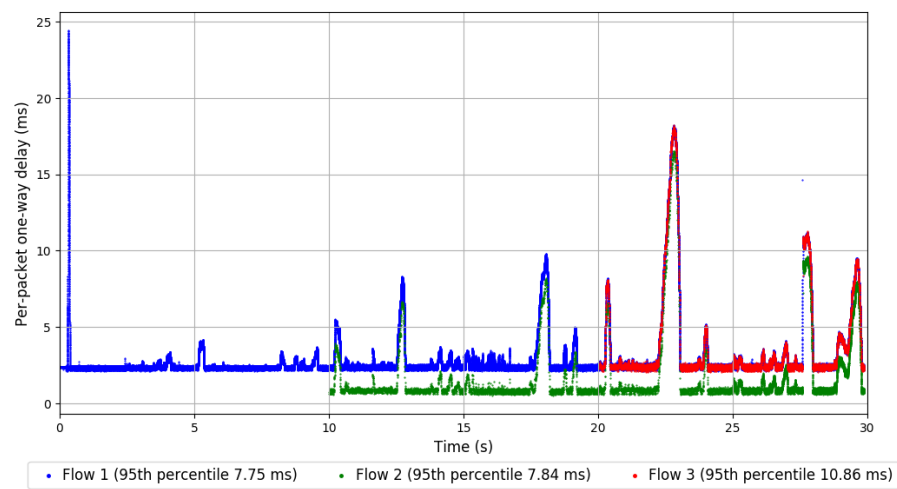
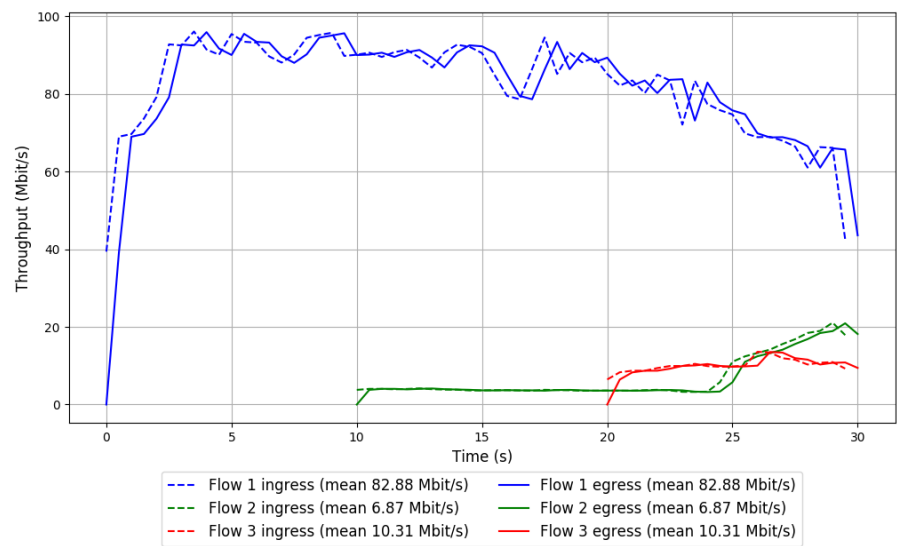
-- Flow 3:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 10.859 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

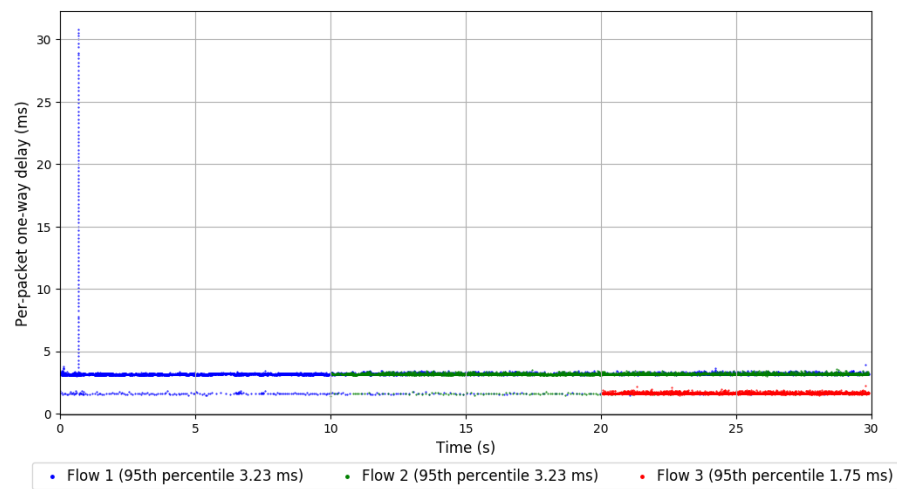
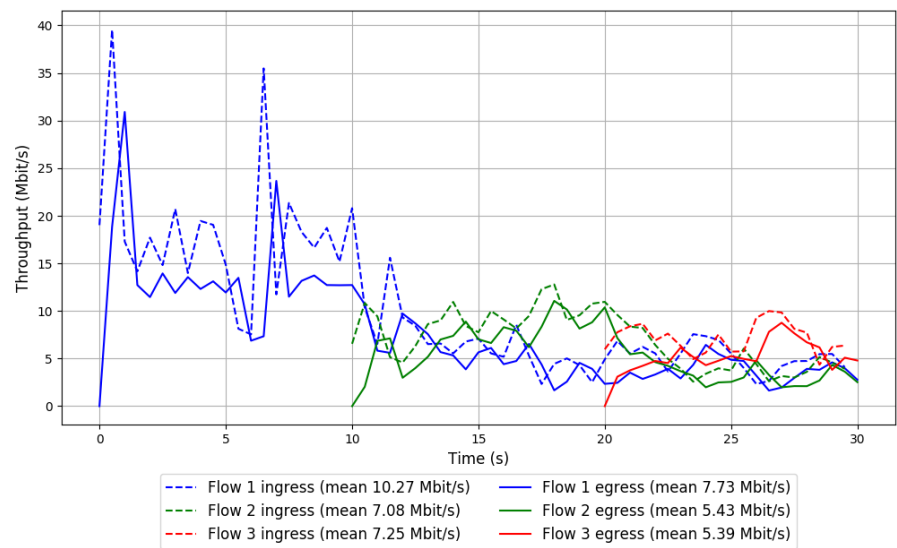


```
Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 07:39:05
End at: 2019-11-24 07:39:35
Local clock offset: -7.556 ms
Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2019-11-24 09:41:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 3.226 ms
Loss rate: 24.45%
-- Flow 1:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 3.228 ms
Loss rate: 24.70%
-- Flow 2:
Average throughput: 5.43 Mbit/s
95th percentile per-packet one-way delay: 3.233 ms
Loss rate: 23.32%
-- Flow 3:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 1.746 ms
Loss rate: 25.60%
```

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 08:06:17

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

Local clock offset: -7.344 ms

Remote clock offset: 0.793 ms

# Below is generated by plot.py at 2019-11-24 09:41:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 3.314 ms

Loss rate: 34.84%

-- Flow 1:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 3.239 ms

Loss rate: 36.54%

-- Flow 2:

Average throughput: 6.11 Mbit/s

95th percentile per-packet one-way delay: 8.096 ms

Loss rate: 32.27%

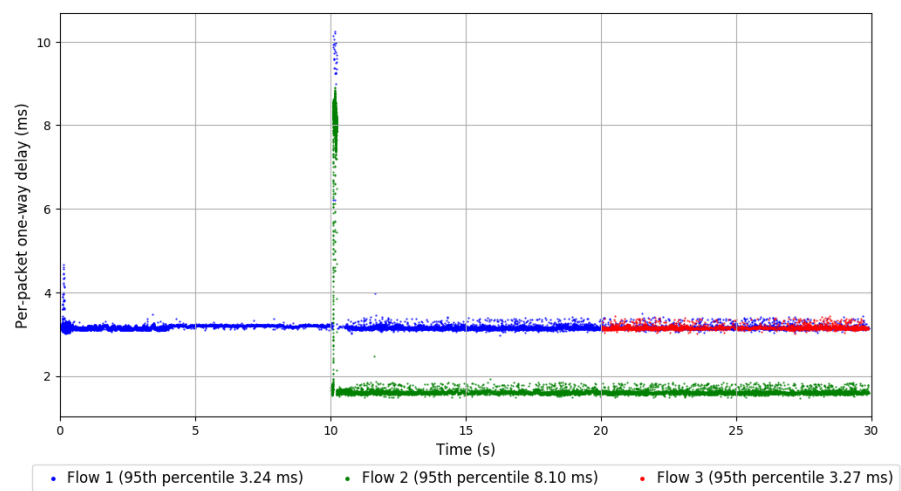
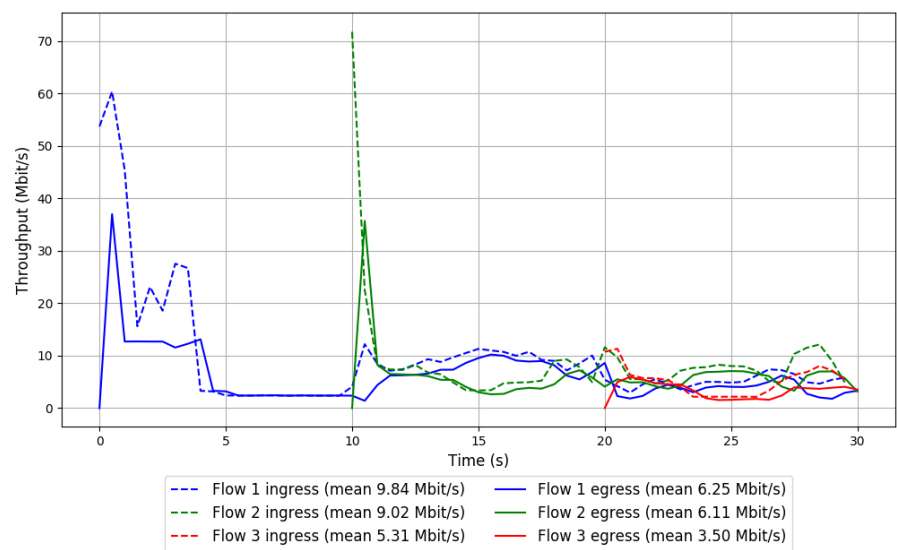
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 3.270 ms

Loss rate: 34.13%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 08:33:26

End at: 2019-11-24 08:33:56

Local clock offset: -7.266 ms

Remote clock offset: 0.648 ms

# Below is generated by plot.py at 2019-11-24 09:41:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 3.247 ms

Loss rate: 24.47%

-- Flow 1:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 4.194 ms

Loss rate: 22.14%

-- Flow 2:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 1.719 ms

Loss rate: 25.94%

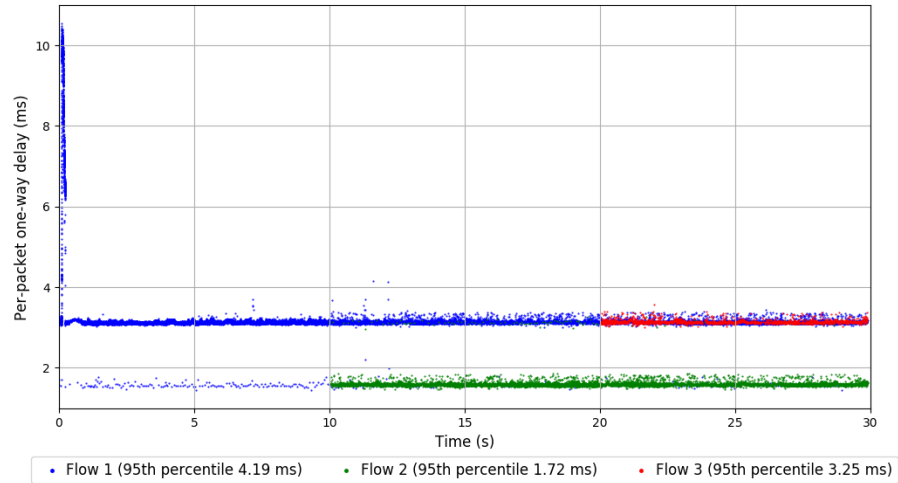
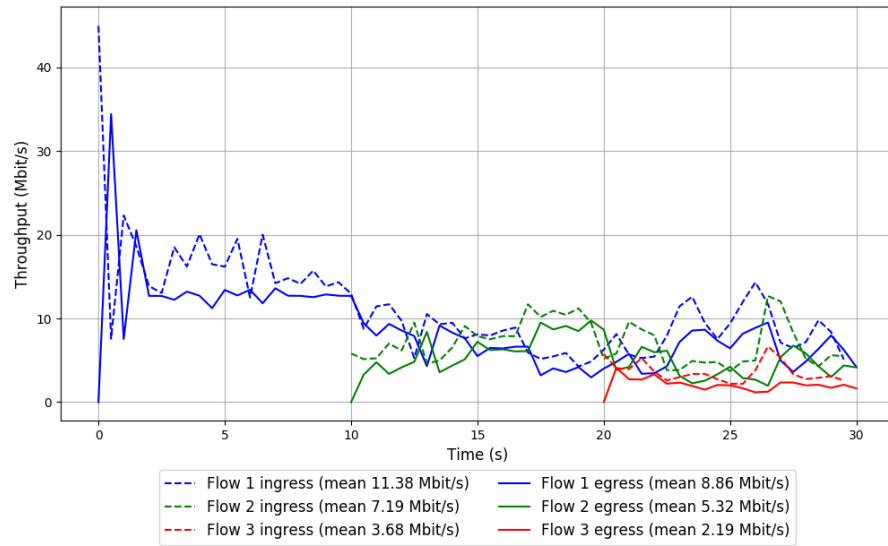
-- Flow 3:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 3.245 ms

Loss rate: 40.48%

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

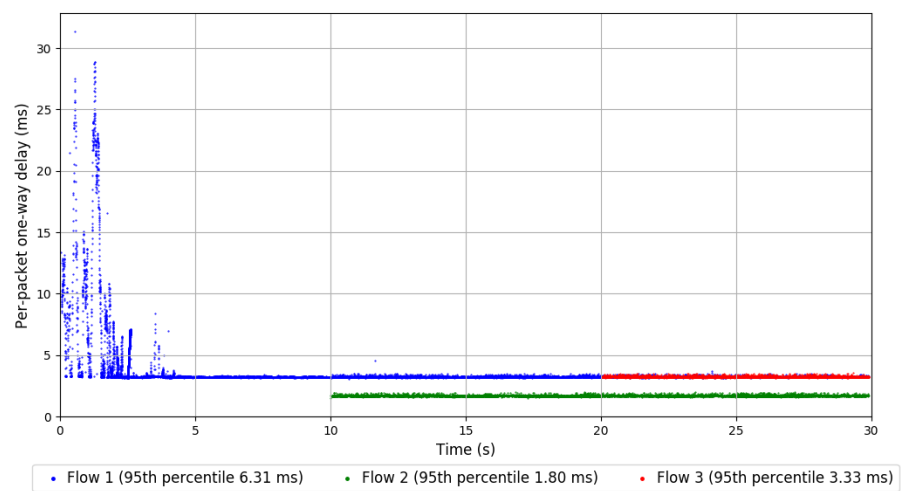
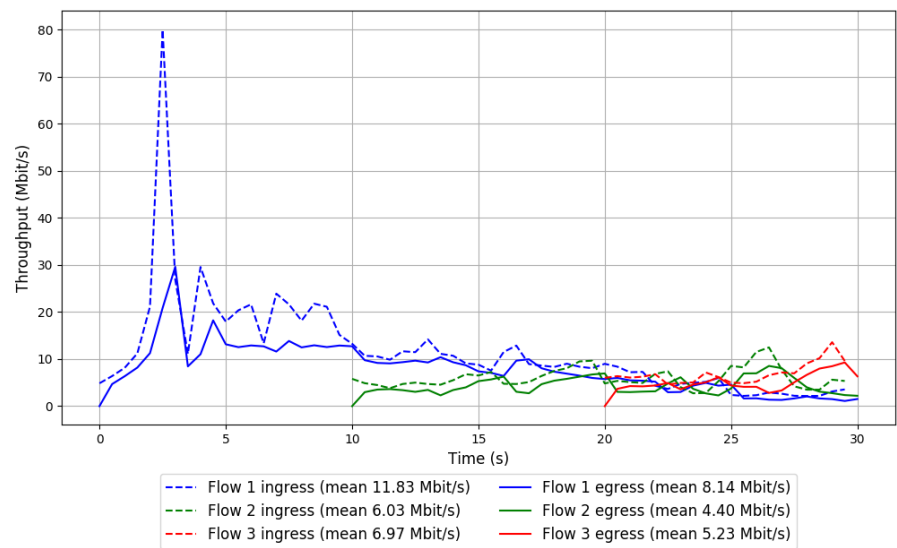


```
Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 09:00:36
End at: 2019-11-24 09:01:06
Local clock offset: -6.205 ms
Remote clock offset: 0.59 ms

# Below is generated by plot.py at 2019-11-24 09:41:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 4.110 ms
Loss rate: 29.47%
-- Flow 1:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 6.311 ms
Loss rate: 31.21%
-- Flow 2:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 1.797 ms
Loss rate: 26.95%
-- Flow 3:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 3.327 ms
Loss rate: 24.88%
```

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 09:27:55

End at: 2019-11-24 09:28:25

Local clock offset: -5.63 ms

Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2019-11-24 09:41:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 2.540 ms

Loss rate: 20.82%

-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 2.541 ms

Loss rate: 21.29%

-- Flow 2:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 2.546 ms

Loss rate: 19.52%

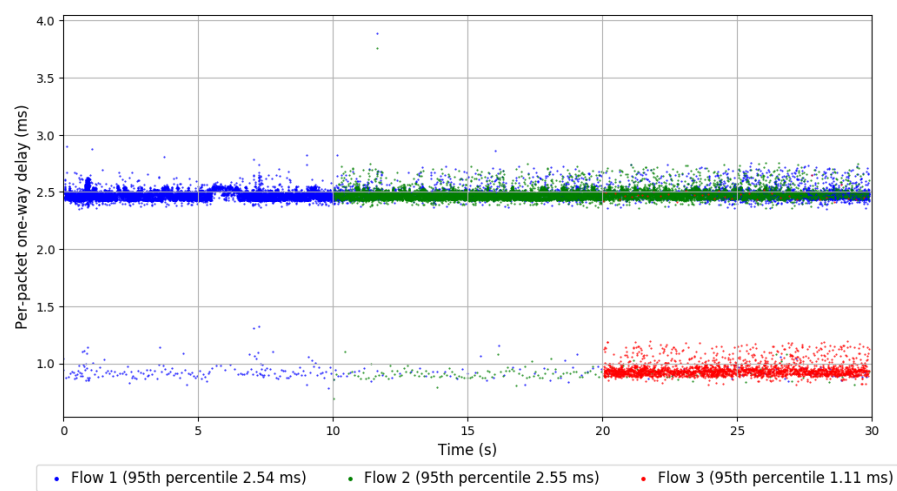
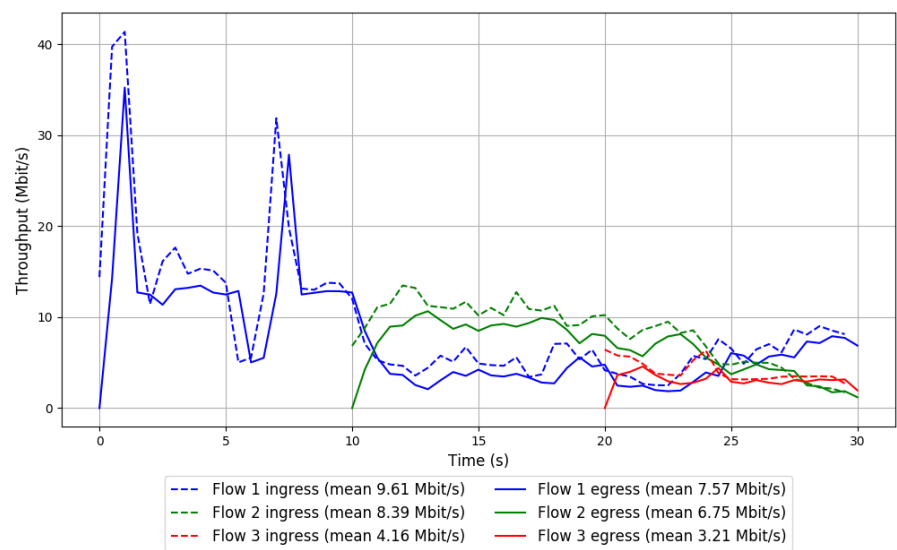
-- Flow 3:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 22.84%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 07:22:03

End at: 2019-11-24 07:22:33

Local clock offset: -7.148 ms

Remote clock offset: 0.632 ms

# Below is generated by plot.py at 2019-11-24 09:42:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 31.330 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 30.171 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 31.910 ms

Loss rate: 0.17%

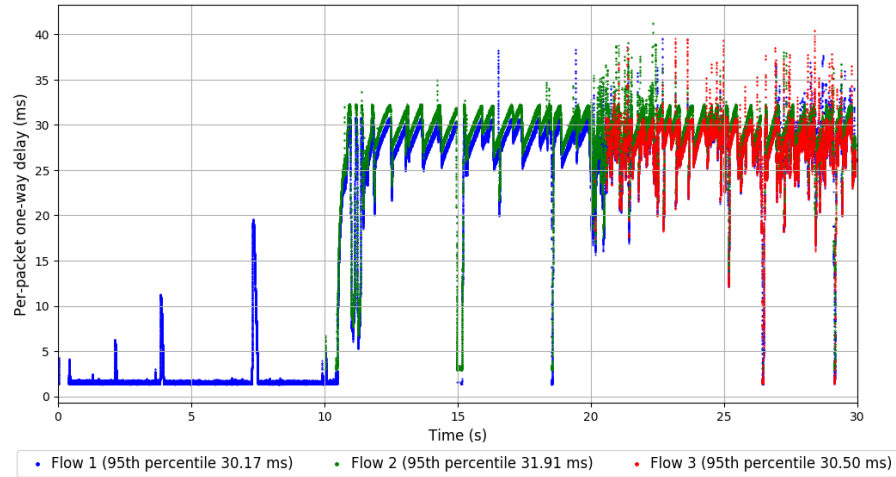
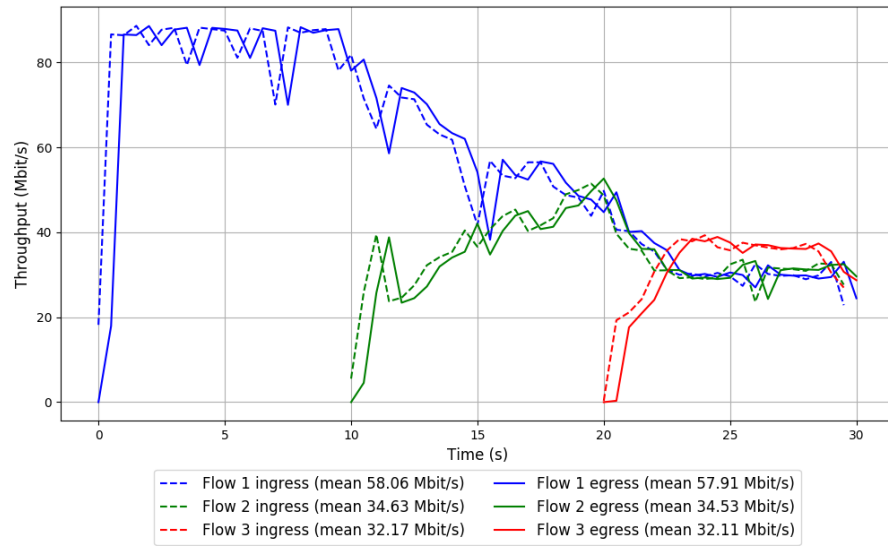
-- Flow 3:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 30.501 ms

Loss rate: 0.17%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 07:49:16

End at: 2019-11-24 07:49:46

Local clock offset: -7.366 ms

Remote clock offset: 0.81 ms

# Below is generated by plot.py at 2019-11-24 09:42:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.37 Mbit/s

95th percentile per-packet one-way delay: 31.743 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 56.85 Mbit/s

95th percentile per-packet one-way delay: 31.799 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 30.404 ms

Loss rate: 0.16%

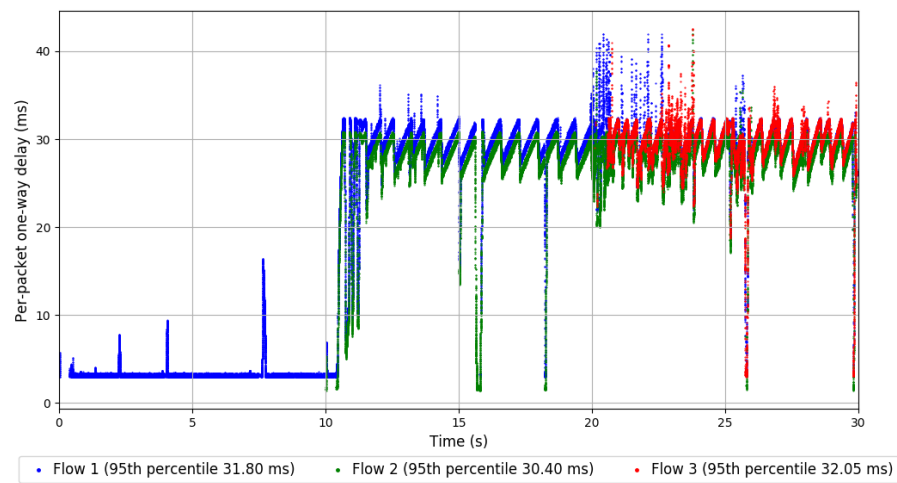
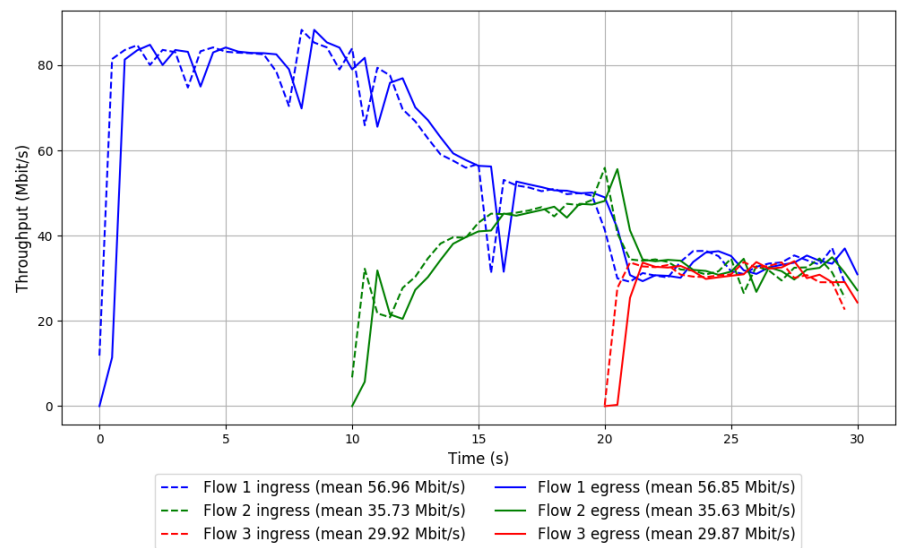
-- Flow 3:

Average throughput: 29.87 Mbit/s

95th percentile per-packet one-way delay: 32.053 ms

Loss rate: 0.19%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 08:16:26

End at: 2019-11-24 08:16:56

Local clock offset: -7.303 ms

Remote clock offset: 0.686 ms

# Below is generated by plot.py at 2019-11-24 09:42:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.98 Mbit/s

95th percentile per-packet one-way delay: 31.748 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 30.292 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 32.112 ms

Loss rate: 0.24%

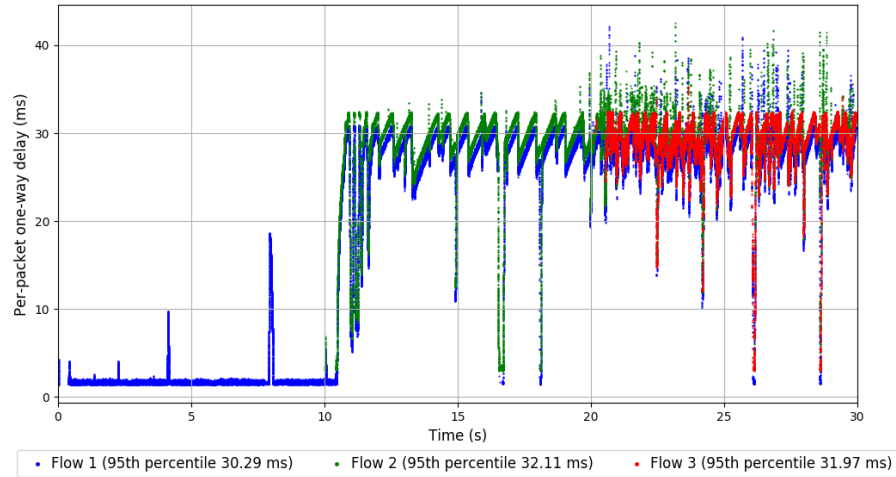
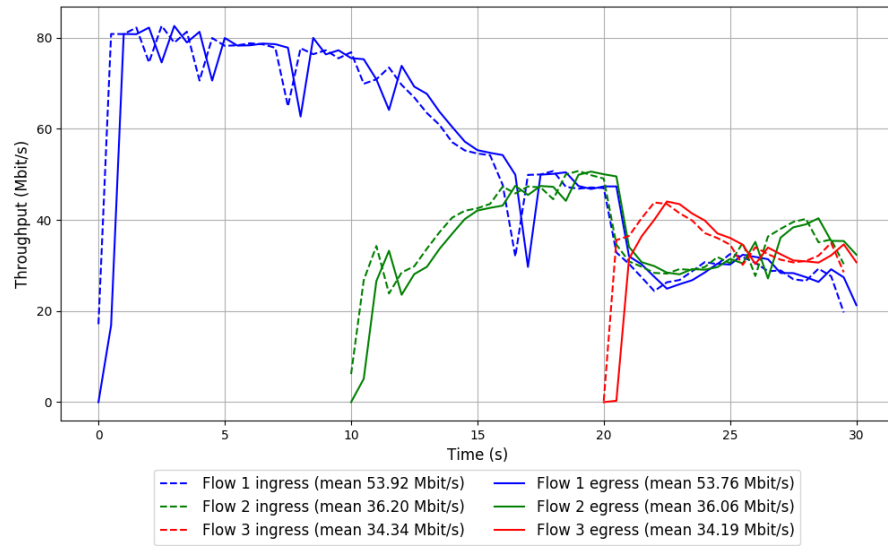
-- Flow 3:

Average throughput: 34.19 Mbit/s

95th percentile per-packet one-way delay: 31.967 ms

Loss rate: 0.40%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 08:43:35

End at: 2019-11-24 08:44:05

Local clock offset: -6.069 ms

Remote clock offset: 0.66 ms

# Below is generated by plot.py at 2019-11-24 09:42:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.99 Mbit/s

95th percentile per-packet one-way delay: 31.014 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 31.029 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 37.85 Mbit/s

95th percentile per-packet one-way delay: 29.707 ms

Loss rate: 0.18%

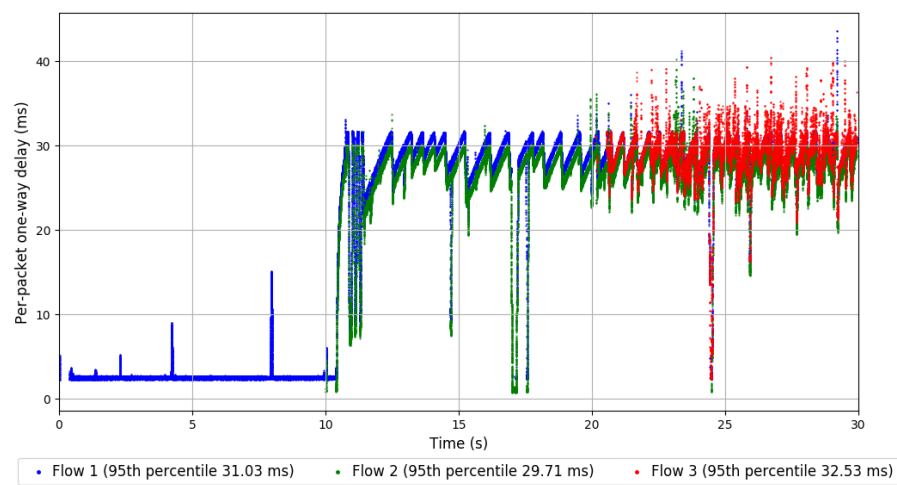
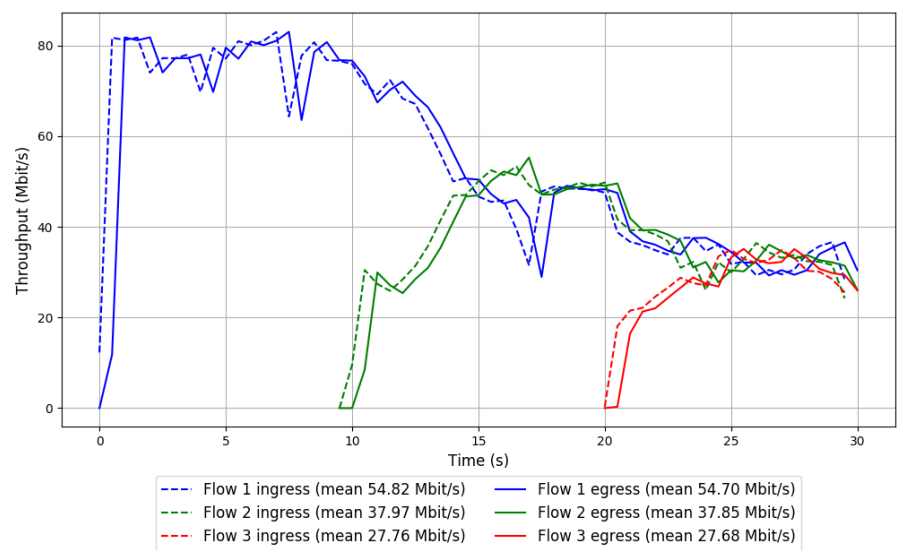
-- Flow 3:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 32.529 ms

Loss rate: 0.29%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 09:10:48

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

Local clock offset: -6.032 ms

Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2019-11-24 09:42:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 30.396 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 56.80 Mbit/s

95th percentile per-packet one-way delay: 30.320 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 30.520 ms

Loss rate: 0.20%

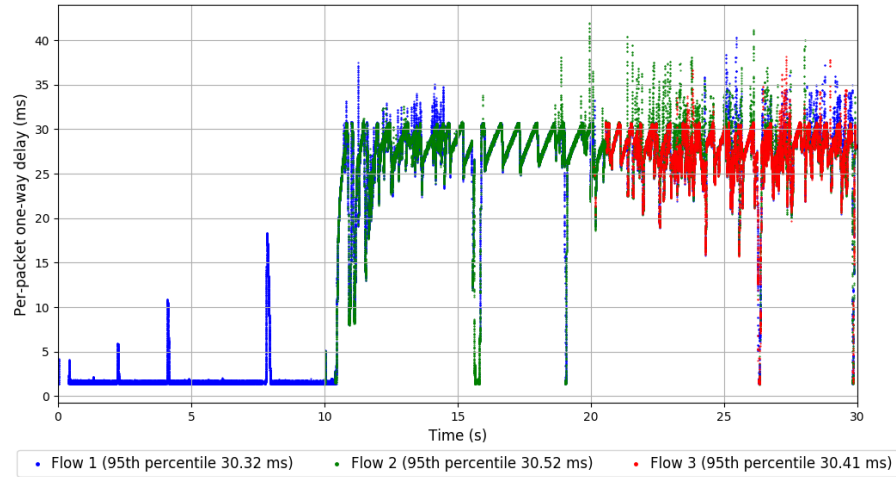
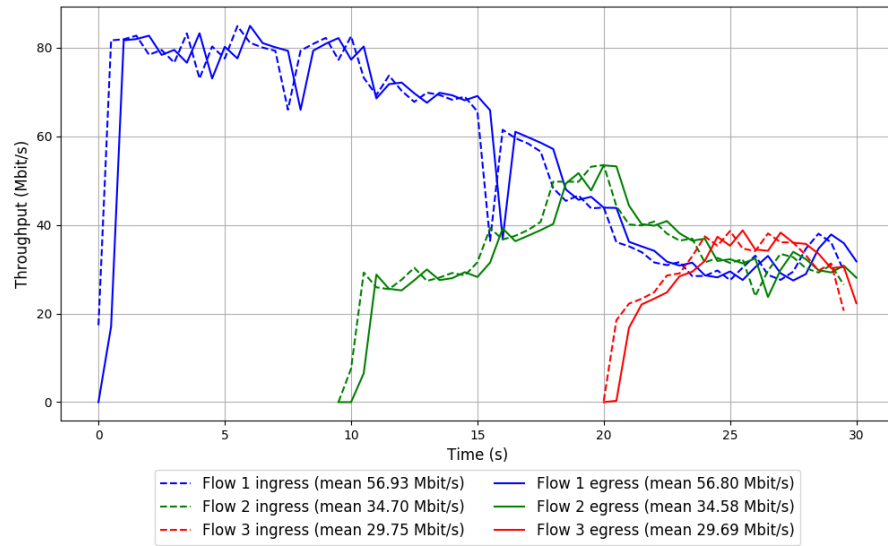
-- Flow 3:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 30.407 ms

Loss rate: 0.20%

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

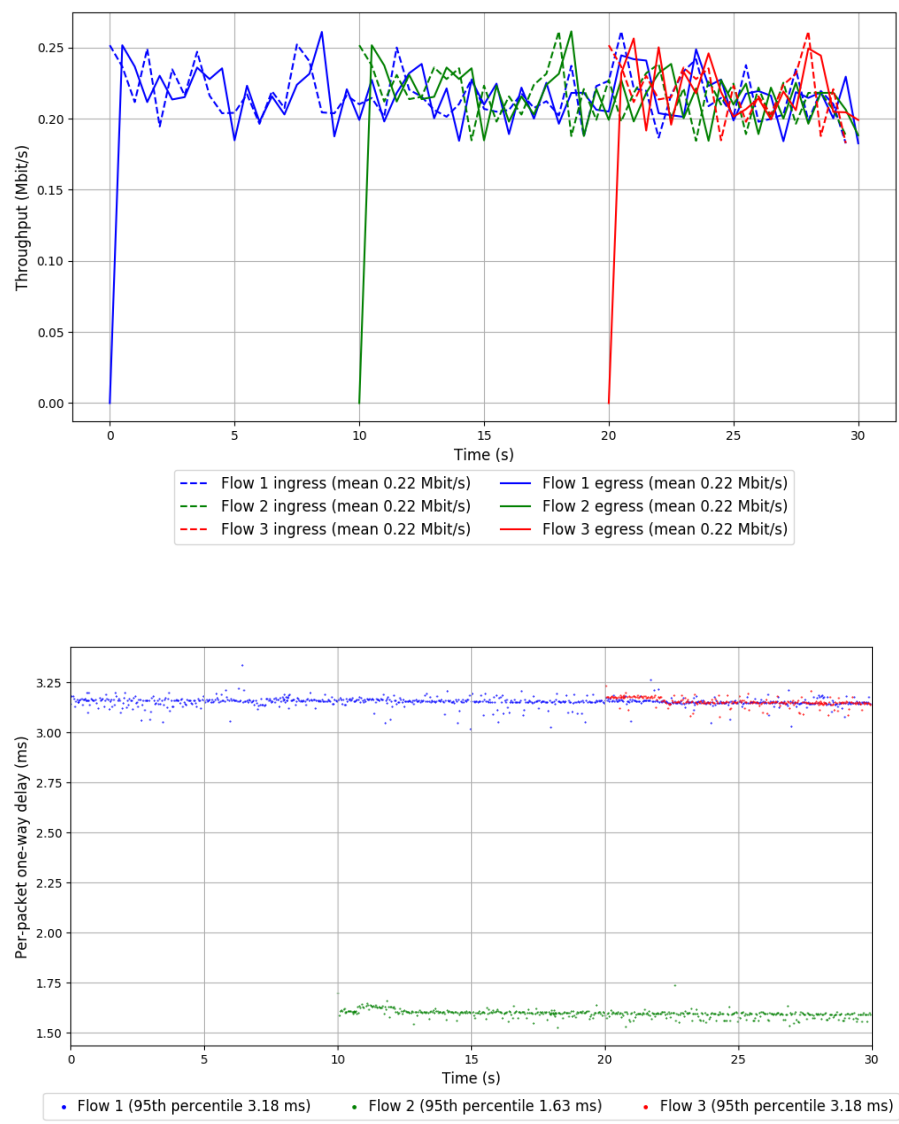


```
Run 1: Statistics of SReAM

Start at: 2019-11-24 07:24:21
End at: 2019-11-24 07:24:51
Local clock offset: -7.231 ms
Remote clock offset: 0.726 ms

# Below is generated by plot.py at 2019-11-24 09:42:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.184 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.629 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.183 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2019-11-24 07:51:34

End at: 2019-11-24 07:52:04

Local clock offset: -7.34 ms

Remote clock offset: 0.829 ms

# Below is generated by plot.py at 2019-11-24 09:42:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 3.168 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.176 ms

Loss rate: 0.00%

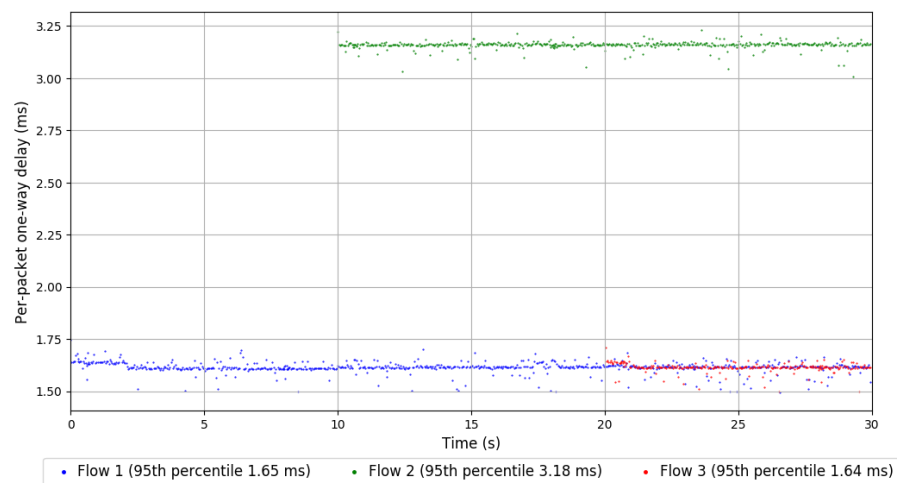
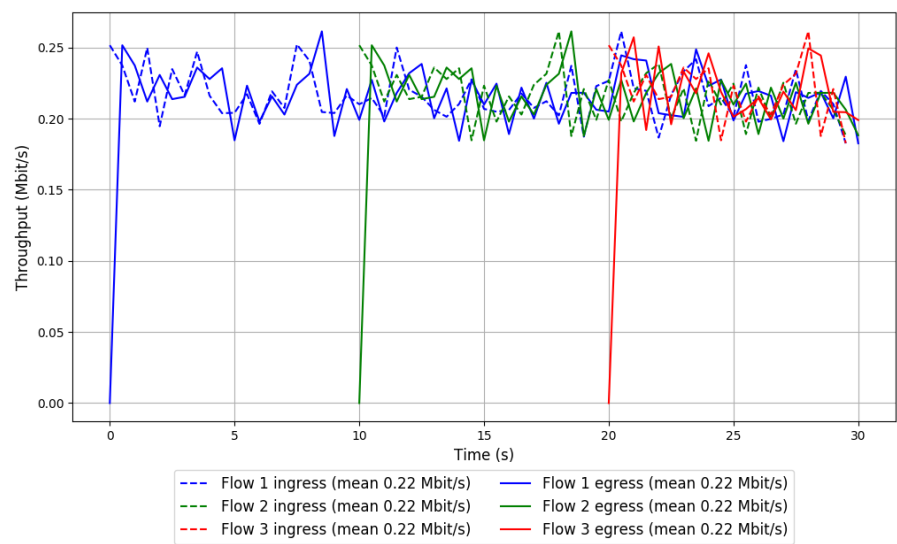
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.643 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

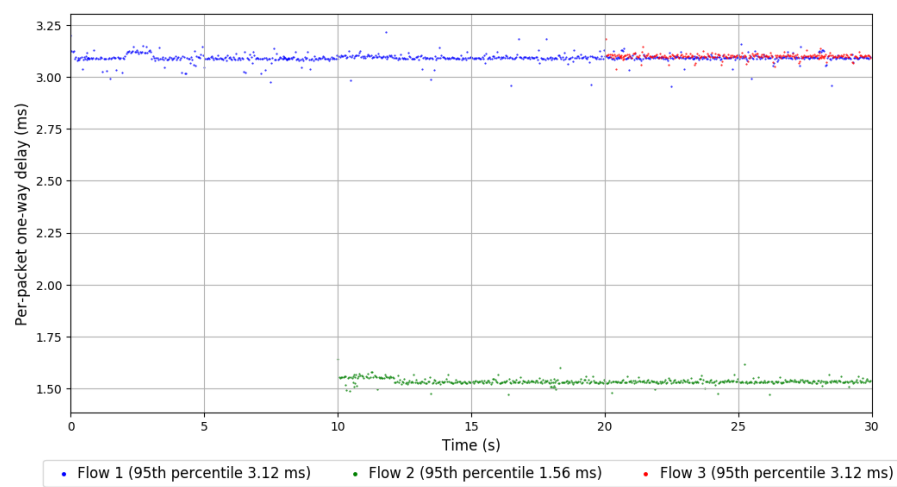
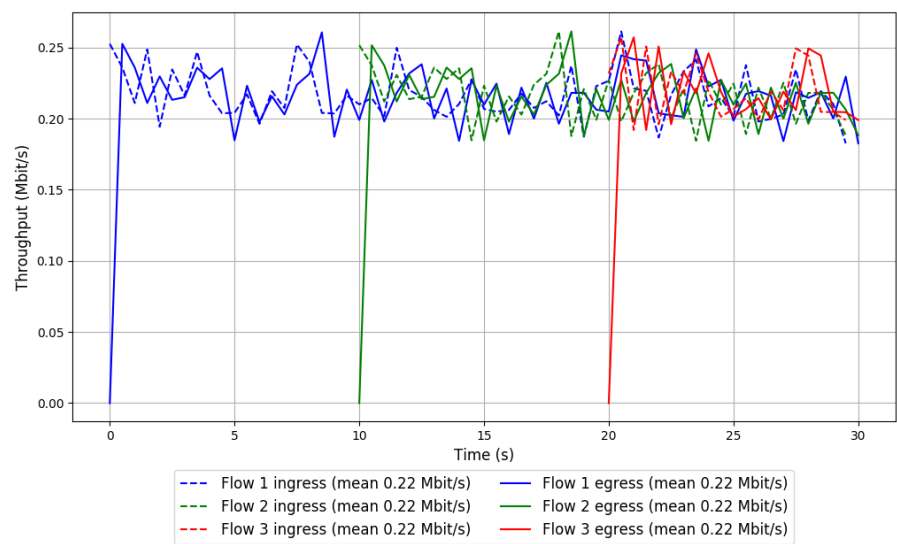


Run 3: Statistics of SReAM

Start at: 2019-11-24 08:18:44  
End at: 2019-11-24 08:19:14  
Local clock offset: -7.237 ms  
Remote clock offset: 0.66 ms

# Below is generated by plot.py at 2019-11-24 09:42:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 3.116 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.122 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.558 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.115 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



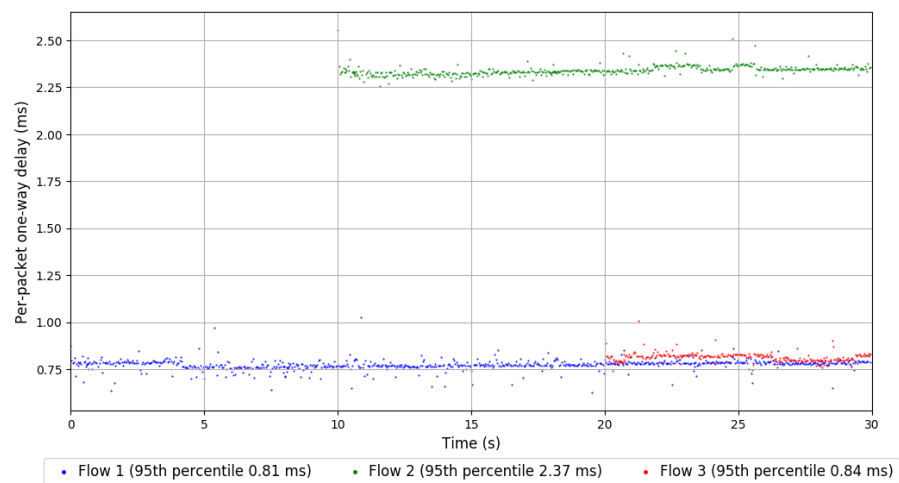
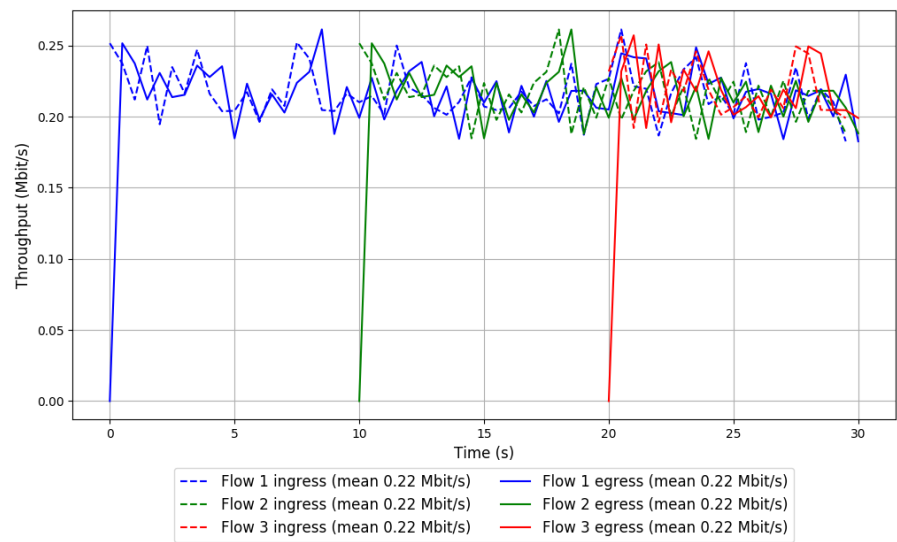


Run 4: Statistics of SReAM

Start at: 2019-11-24 08:45:53  
End at: 2019-11-24 08:46:23  
Local clock offset: -5.893 ms  
Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-11-24 09:42:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.360 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.807 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.371 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.840 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-11-24 09:13:06

End at: 2019-11-24 09:13:36

Local clock offset: -5.44 ms

Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2019-11-24 09:42:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.387 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.860 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.392 ms

Loss rate: 0.00%

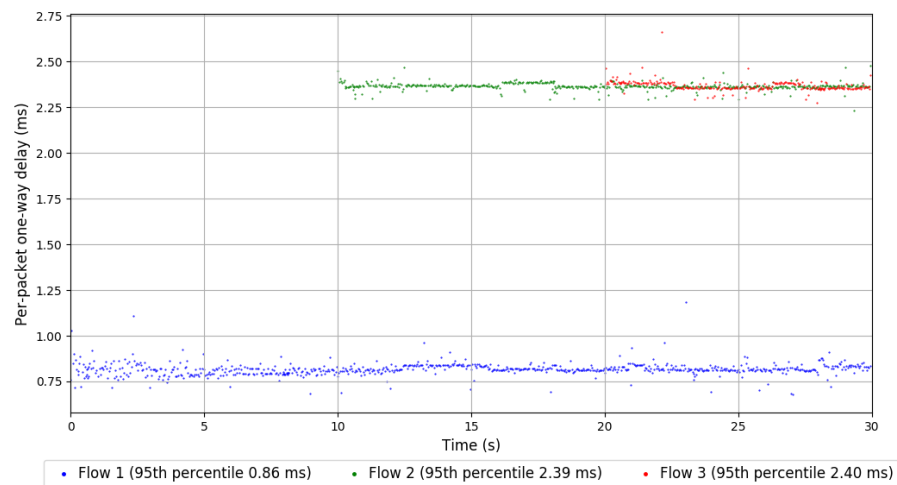
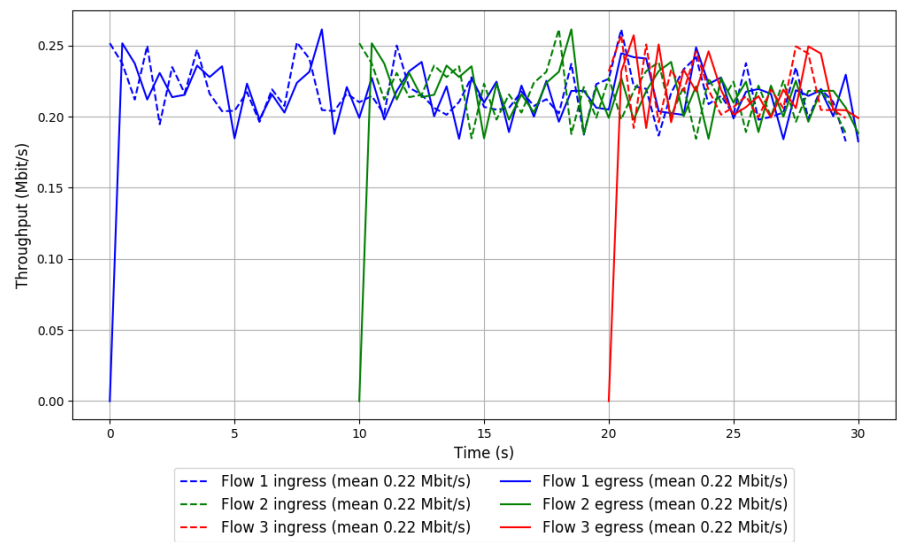
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.396 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

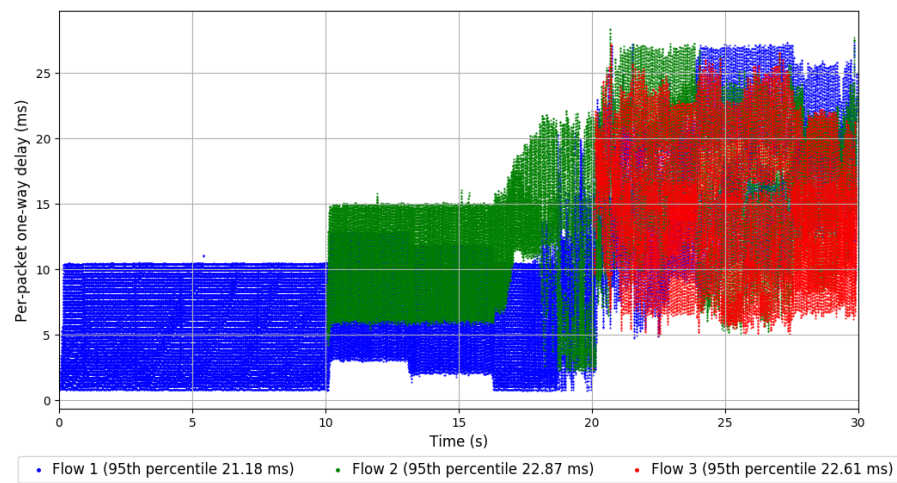
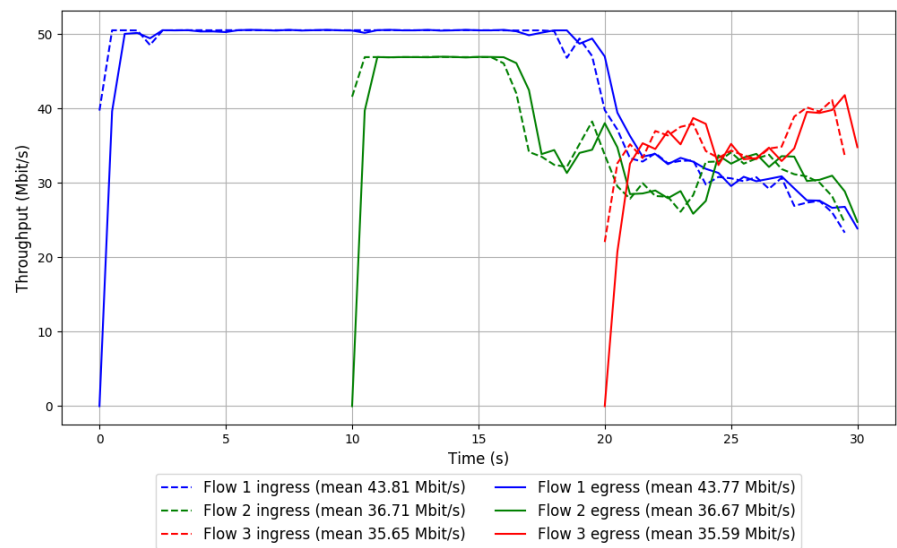


Run 1: Statistics of Sprout

Start at: 2019-11-24 07:28:50  
End at: 2019-11-24 07:29:20  
Local clock offset: -6.618 ms  
Remote clock offset: 0.736 ms

# Below is generated by plot.py at 2019-11-24 09:42:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.94 Mbit/s  
95th percentile per-packet one-way delay: 22.221 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.77 Mbit/s  
95th percentile per-packet one-way delay: 21.183 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.67 Mbit/s  
95th percentile per-packet one-way delay: 22.869 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 35.59 Mbit/s  
95th percentile per-packet one-way delay: 22.614 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

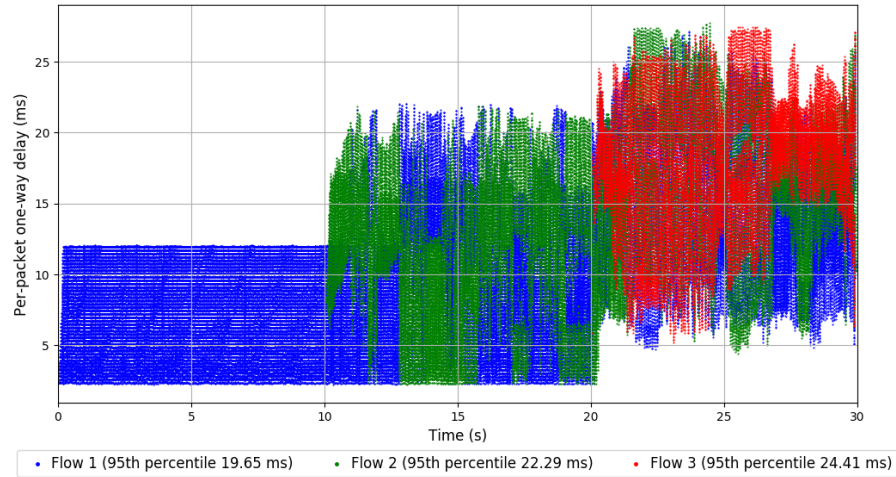
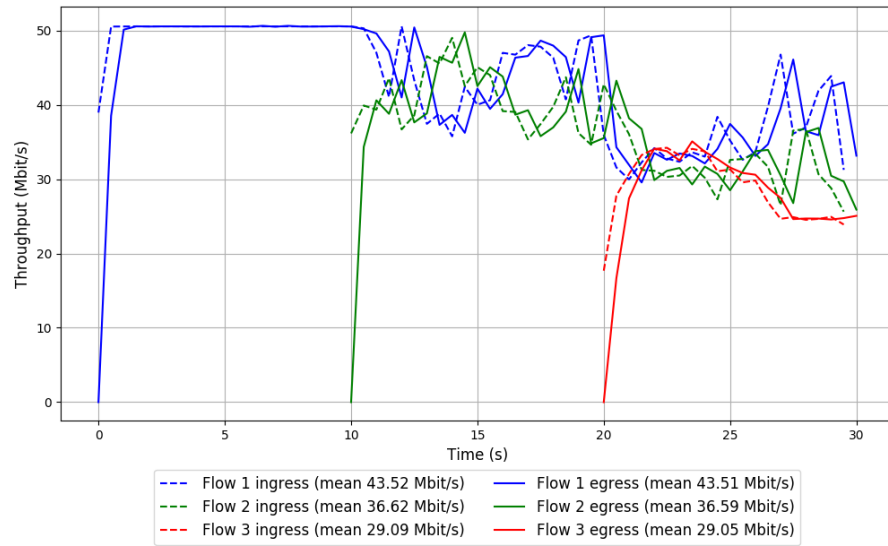


Run 2: Statistics of Sprout

Start at: 2019-11-24 07:56:02  
End at: 2019-11-24 07:56:32  
Local clock offset: -6.585 ms  
Remote clock offset: 0.76 ms

# Below is generated by plot.py at 2019-11-24 09:42:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.46 Mbit/s  
95th percentile per-packet one-way delay: 21.803 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.51 Mbit/s  
95th percentile per-packet one-way delay: 19.651 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.59 Mbit/s  
95th percentile per-packet one-way delay: 22.287 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 29.05 Mbit/s  
95th percentile per-packet one-way delay: 24.410 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



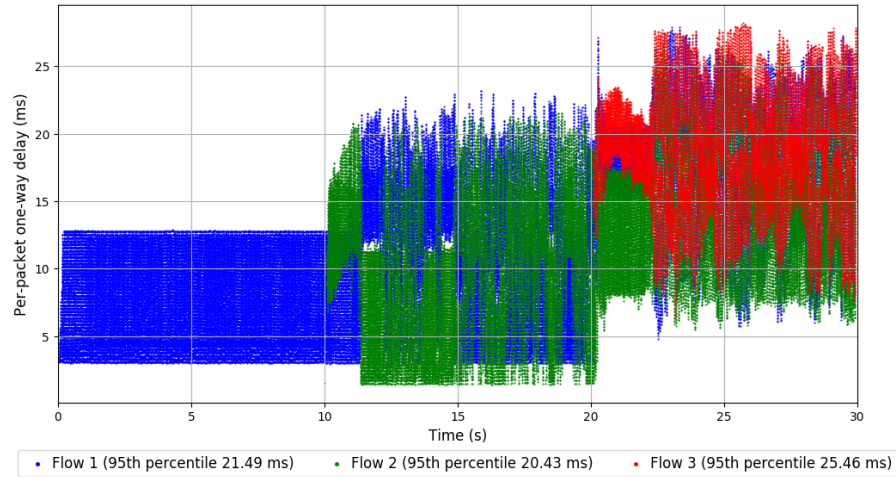
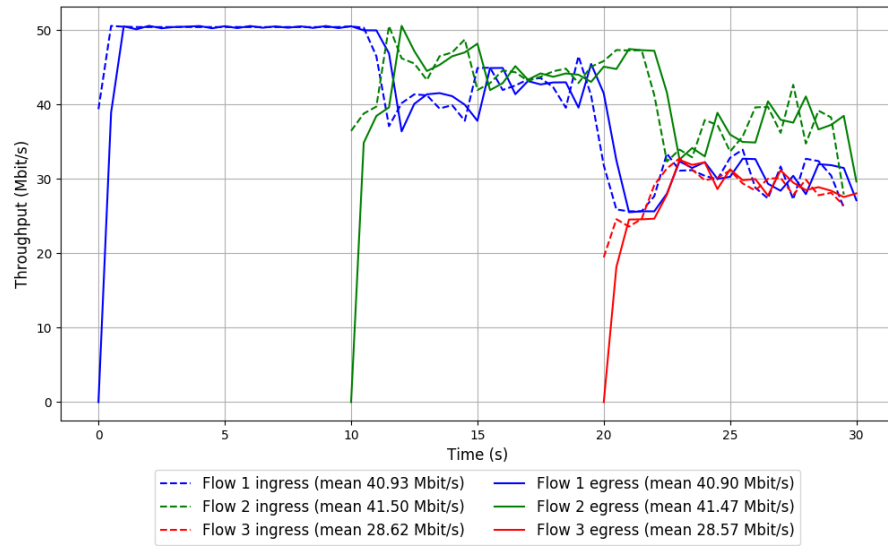


Run 3: Statistics of Sprout

Start at: 2019-11-24 08:23:12  
End at: 2019-11-24 08:23:42  
Local clock offset: -7.211 ms  
Remote clock offset: 0.65 ms

# Below is generated by plot.py at 2019-11-24 09:42:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.92 Mbit/s  
95th percentile per-packet one-way delay: 22.328 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 40.90 Mbit/s  
95th percentile per-packet one-way delay: 21.486 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.47 Mbit/s  
95th percentile per-packet one-way delay: 20.433 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.57 Mbit/s  
95th percentile per-packet one-way delay: 25.458 ms  
Loss rate: 0.00%

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



#### Run 4: Statistics of Sprout

Start at: 2019-11-24 08:50:22

End at: 2019-11-24 08:50:52

Local clock offset: -5.665 ms

Remote clock offset: 0.634 ms

# Below is generated by plot.py at 2019-11-24 09:43:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 22.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 19.618 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 23.882 ms

Loss rate: 0.00%

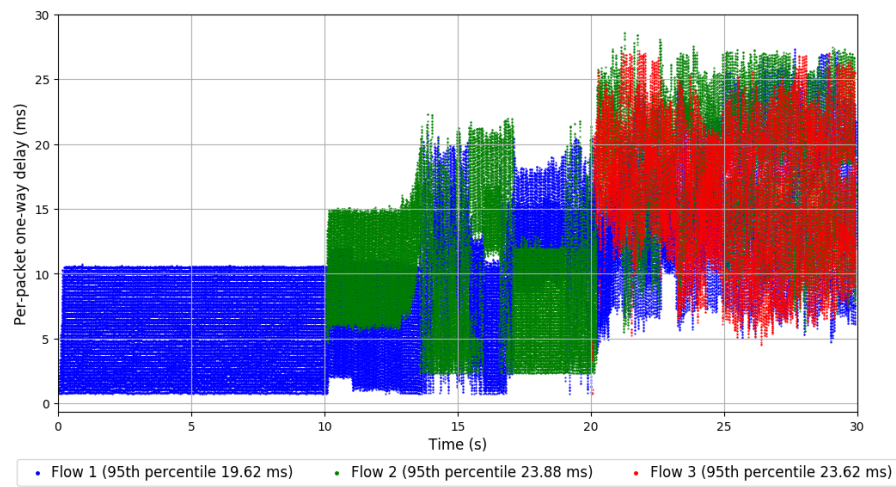
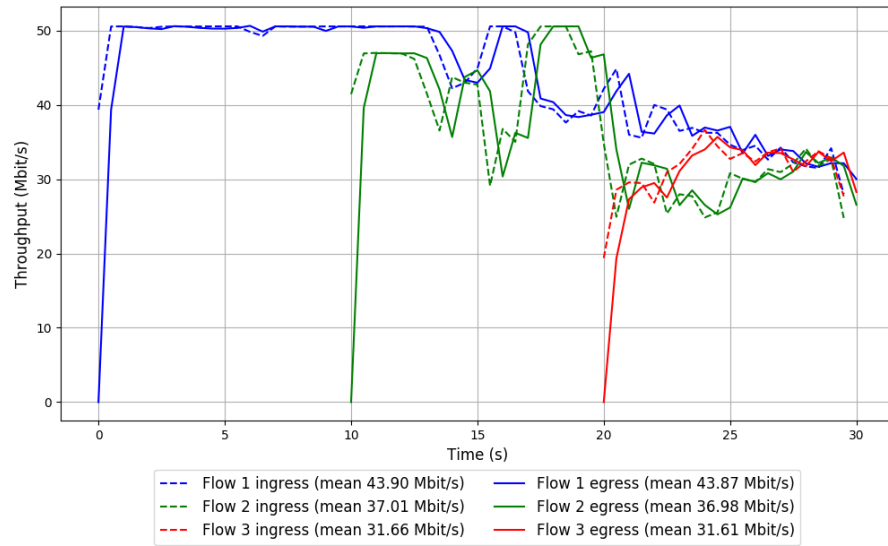
-- Flow 3:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 23.624 ms

Loss rate: 0.00%

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

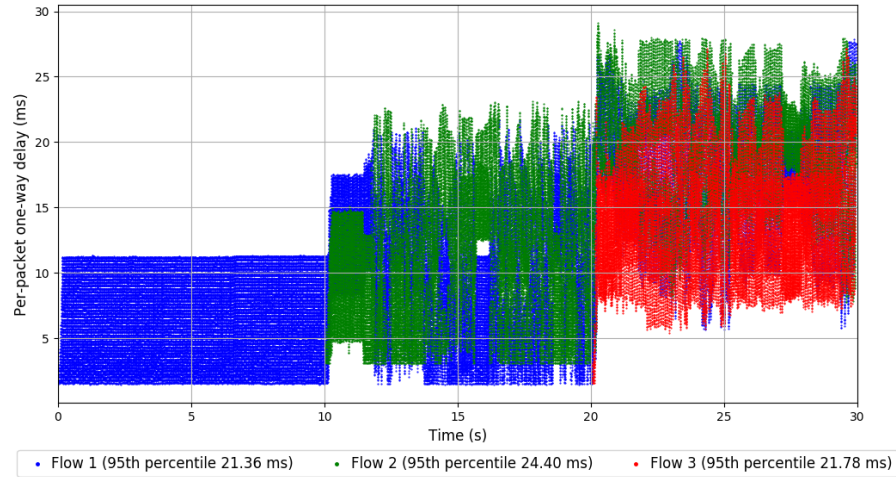
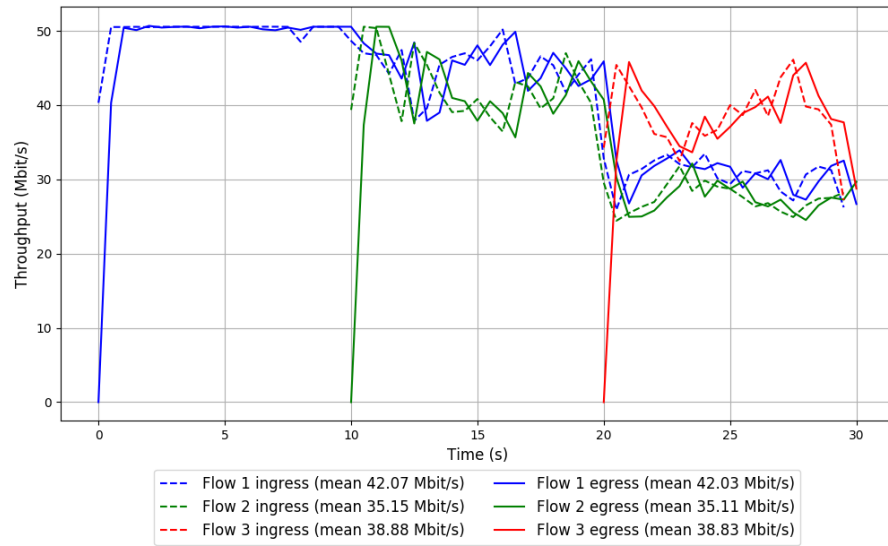


Run 5: Statistics of Sprout

Start at: 2019-11-24 09:17:40  
End at: 2019-11-24 09:18:10  
Local clock offset: -6.238 ms  
Remote clock offset: 0.48 ms

```
# Below is generated by plot.py at 2019-11-24 09:43:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.22 Mbit/s
95th percentile per-packet one-way delay: 22.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 21.361 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.11 Mbit/s
95th percentile per-packet one-way delay: 24.399 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.83 Mbit/s
95th percentile per-packet one-way delay: 21.776 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

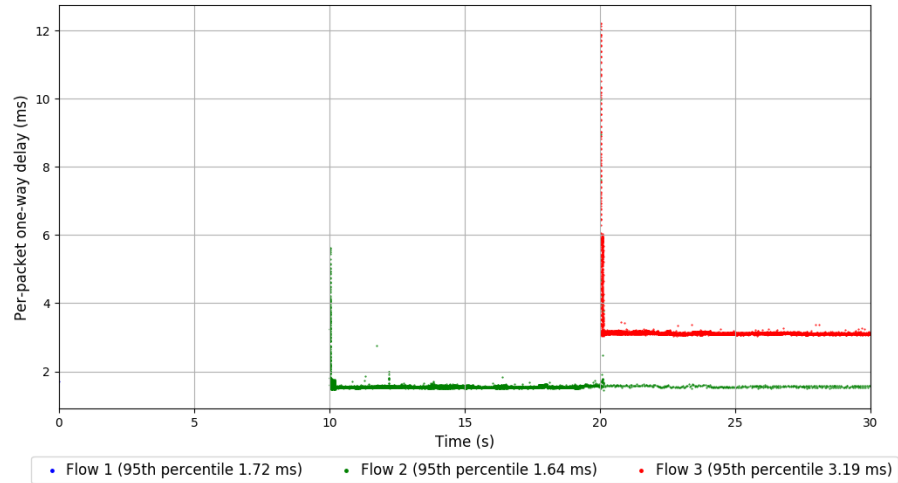
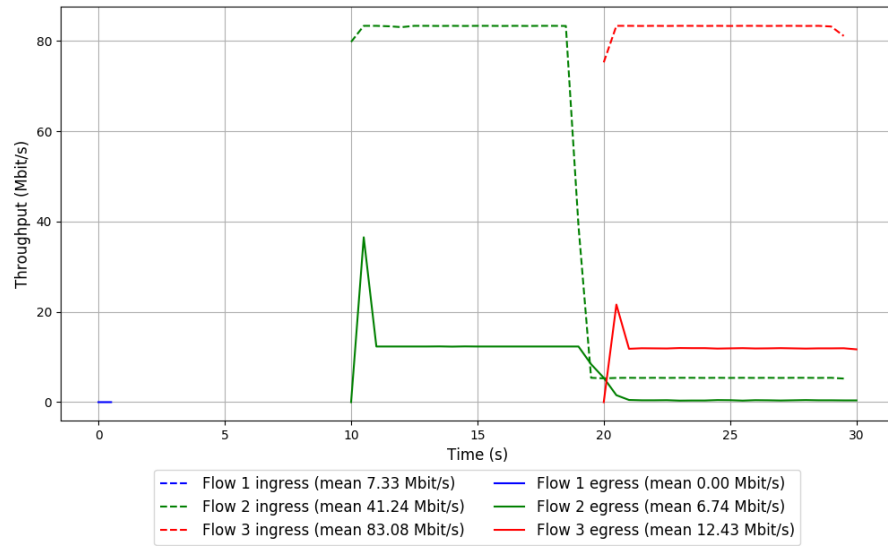


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 07:26:35
End at: 2019-11-24 07:27:05
Local clock offset: -7.298 ms
Remote clock offset: 0.737 ms

# Below is generated by plot.py at 2019-11-24 09:43:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 3.150 ms
Loss rate: 84.36%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.718 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 1.639 ms
Loss rate: 83.67%
-- Flow 3:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 3.186 ms
Loss rate: 85.04%
```

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





Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 07:53:47

End at: 2019-11-24 07:54:17

Local clock offset: -7.343 ms

Remote clock offset: 0.835 ms

# Below is generated by plot.py at 2019-11-24 09:43:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.234 ms

Loss rate: 84.37%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.752 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 3.237 ms

Loss rate: 83.65%

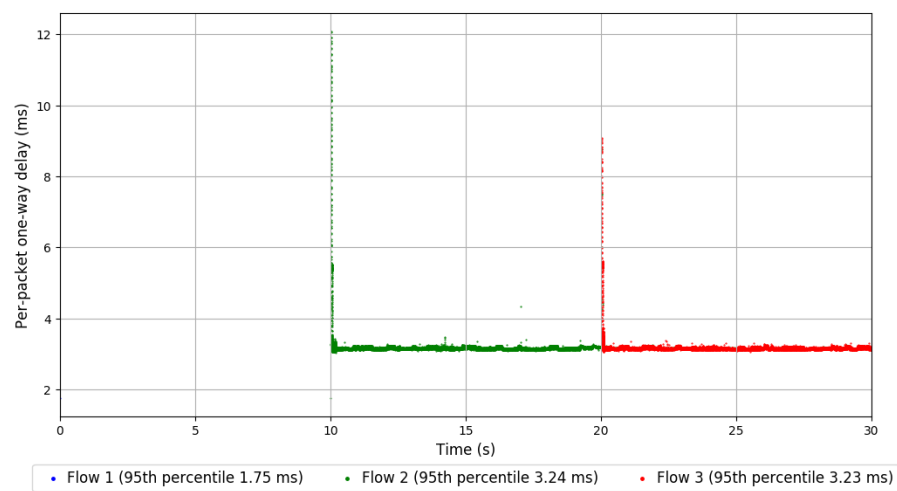
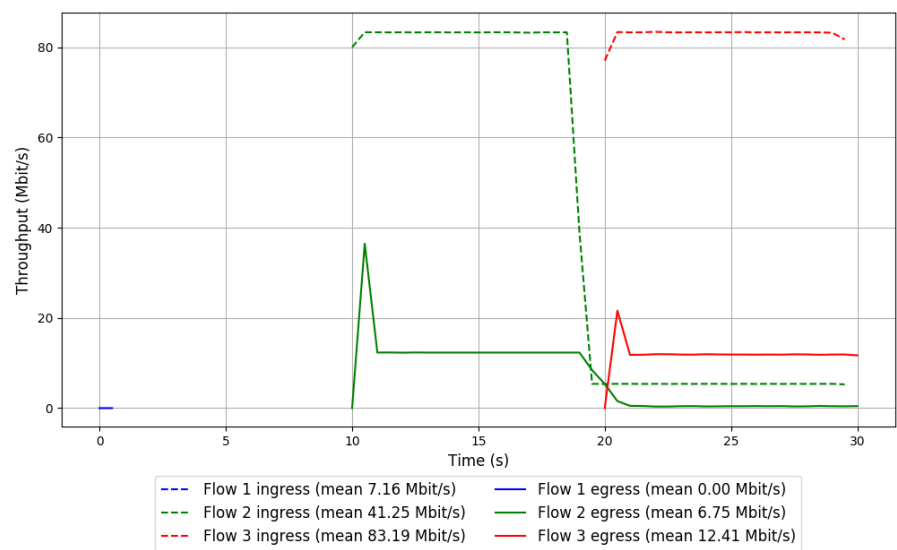
-- Flow 3:

Average throughput: 12.41 Mbit/s

95th percentile per-packet one-way delay: 3.230 ms

Loss rate: 85.09%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 08:20:57

End at: 2019-11-24 08:21:27

Local clock offset: -7.219 ms

Remote clock offset: 0.622 ms

# Below is generated by plot.py at 2019-11-24 09:43:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.111 ms

Loss rate: 84.42%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.633 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 3.112 ms

Loss rate: 83.65%

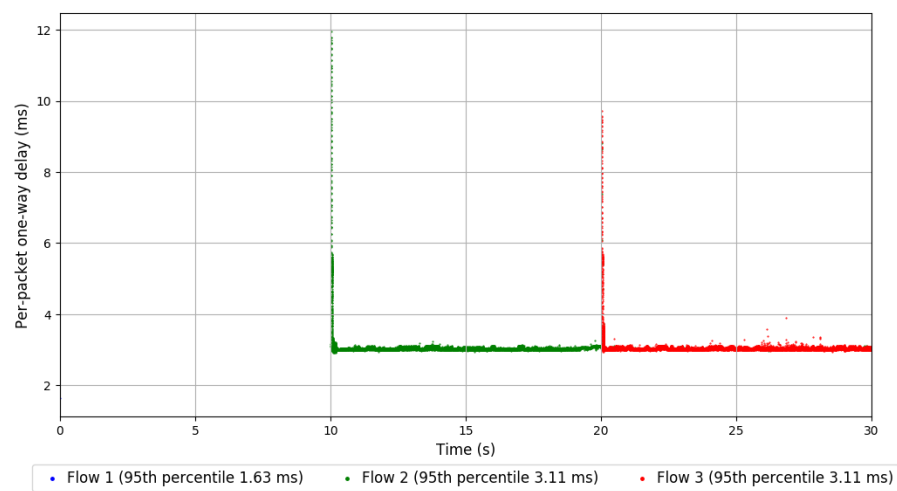
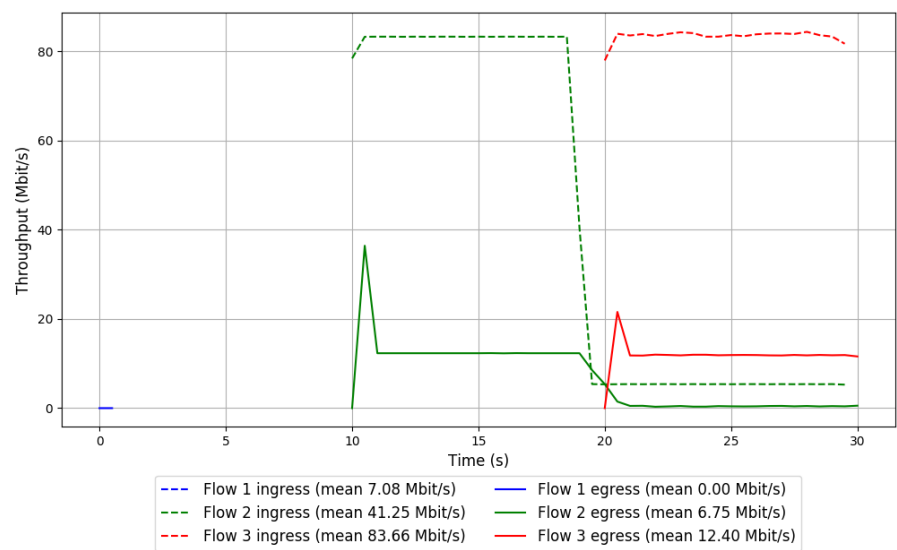
-- Flow 3:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 3.110 ms

Loss rate: 85.18%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 08:48:06

End at: 2019-11-24 08:48:36

Local clock offset: -5.78 ms

Remote clock offset: 0.599 ms

# Below is generated by plot.py at 2019-11-24 09:43:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 2.391 ms

Loss rate: 83.59%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 0.907 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 0.837 ms

Loss rate: 83.78%

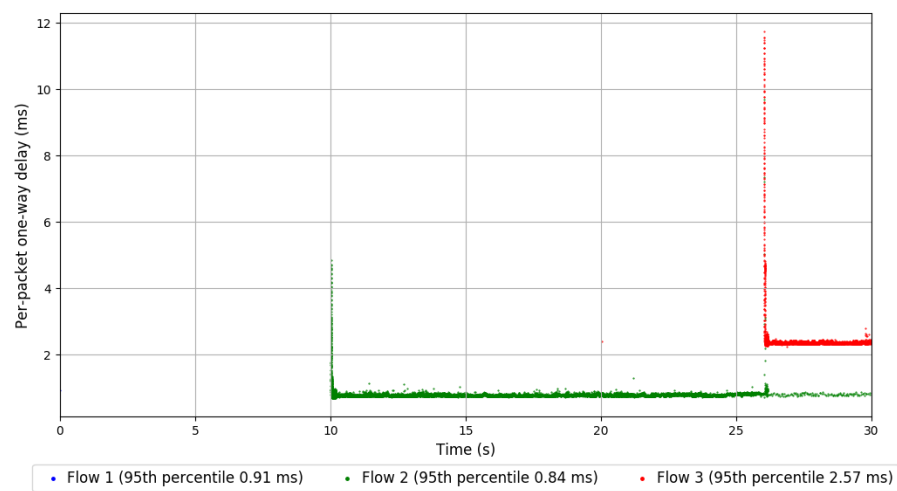
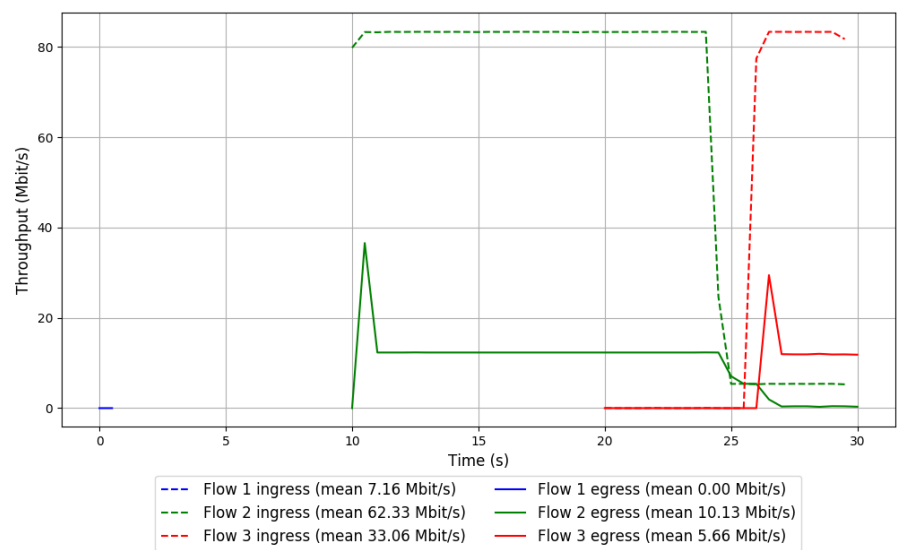
-- Flow 3:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 2.569 ms

Loss rate: 82.87%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 09:15:25

End at: 2019-11-24 09:15:55

Local clock offset: -6.181 ms

Remote clock offset: 0.546 ms

# Below is generated by plot.py at 2019-11-24 09:43:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 3.197 ms

Loss rate: 84.93%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.709 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 3.197 ms

Loss rate: 84.31%

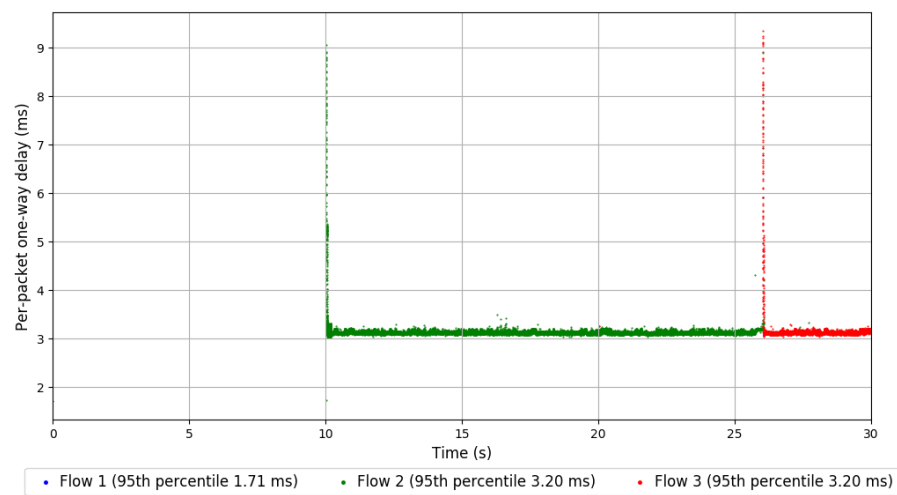
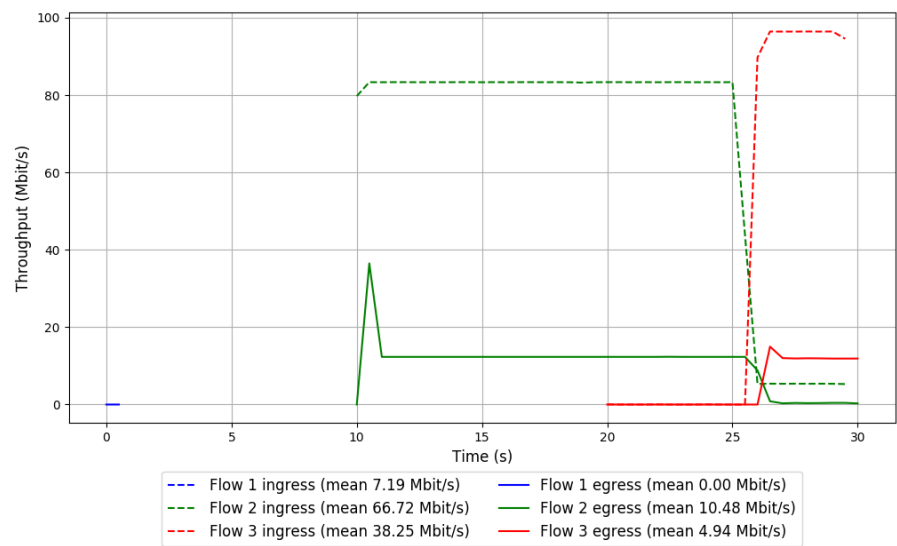
-- Flow 3:

Average throughput: 4.94 Mbit/s

95th percentile per-packet one-way delay: 3.199 ms

Loss rate: 87.10%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 07:36:50

End at: 2019-11-24 07:37:20

Local clock offset: -6.766 ms

Remote clock offset: 0.706 ms

# Below is generated by plot.py at 2019-11-24 09:43:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.415 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.75 Mbit/s

95th percentile per-packet one-way delay: 2.653 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 4.419 ms

Loss rate: 0.00%

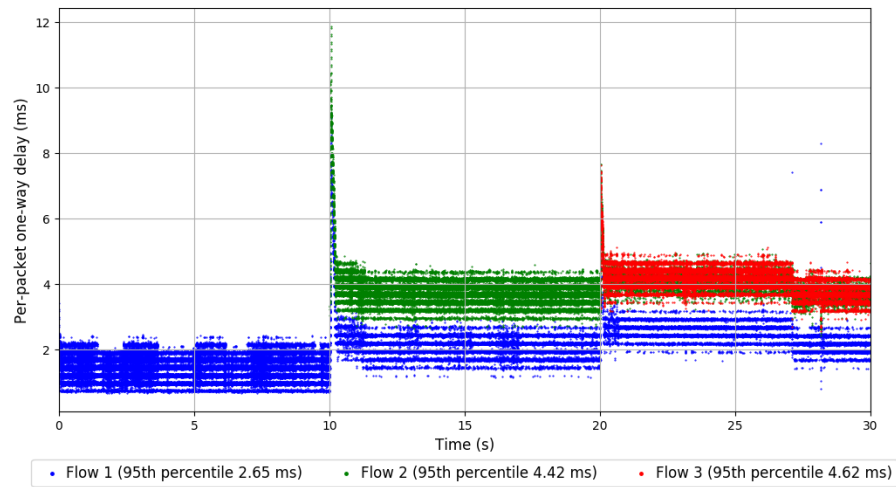
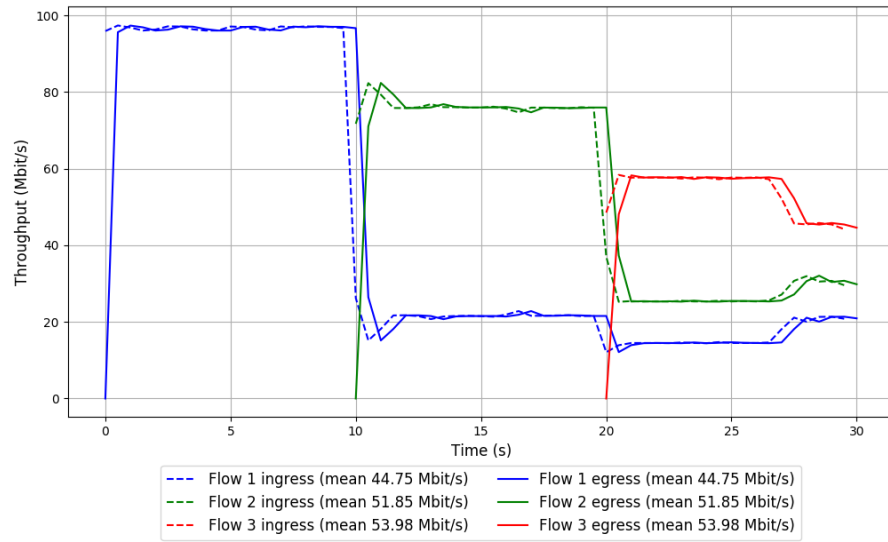
-- Flow 3:

Average throughput: 53.98 Mbit/s

95th percentile per-packet one-way delay: 4.625 ms

Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 08:04:02

End at: 2019-11-24 08:04:32

Local clock offset: -7.409 ms

Remote clock offset: 0.796 ms

# Below is generated by plot.py at 2019-11-24 09:43:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 5.545 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 3.832 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.81 Mbit/s

95th percentile per-packet one-way delay: 5.344 ms

Loss rate: 0.00%

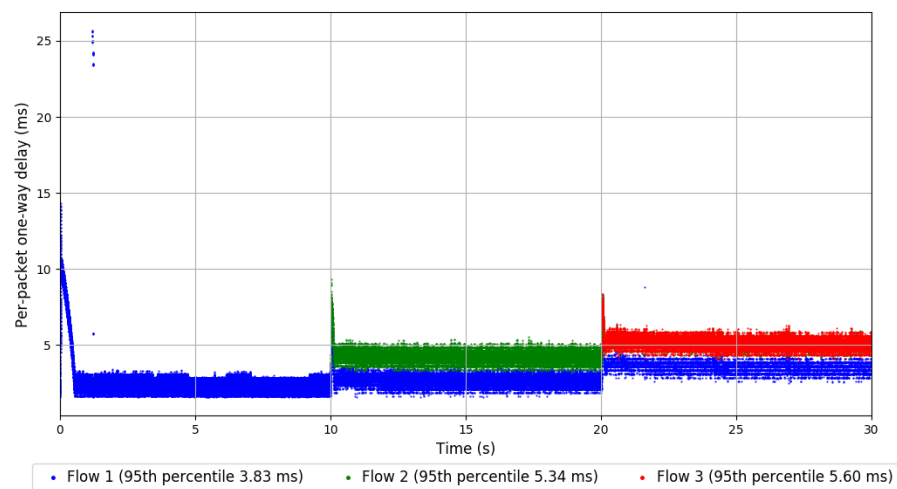
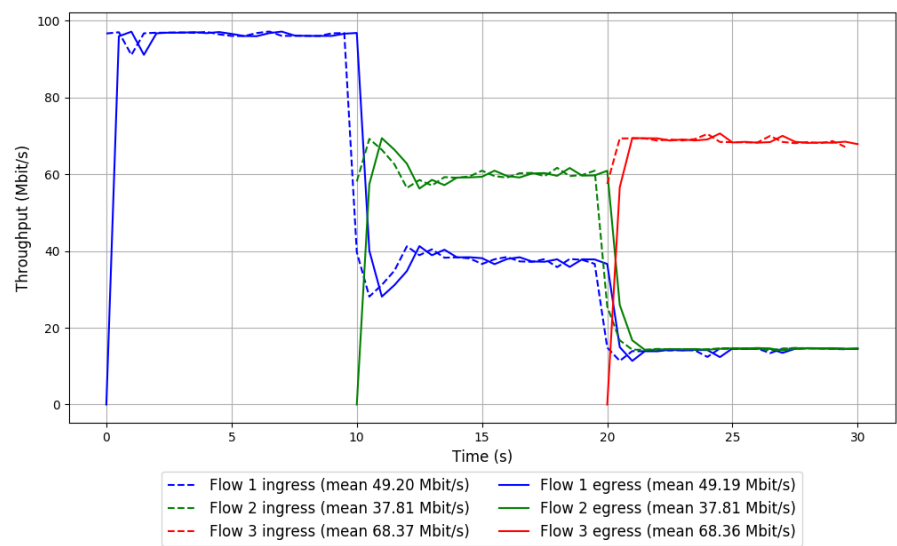
-- Flow 3:

Average throughput: 68.36 Mbit/s

95th percentile per-packet one-way delay: 5.598 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 08:31:11

End at: 2019-11-24 08:31:41

Local clock offset: -6.502 ms

Remote clock offset: 0.729 ms

# Below is generated by plot.py at 2019-11-24 09:43:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 2.562 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.54 Mbit/s

95th percentile per-packet one-way delay: 2.572 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 2.534 ms

Loss rate: 0.00%

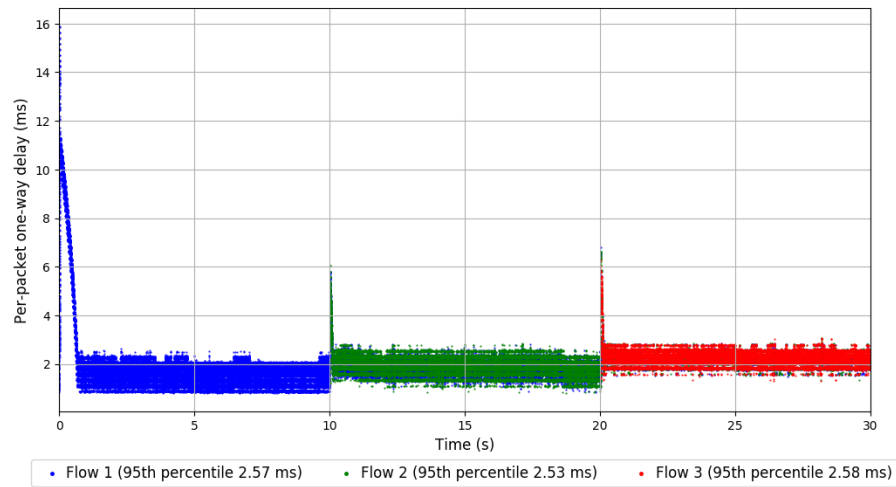
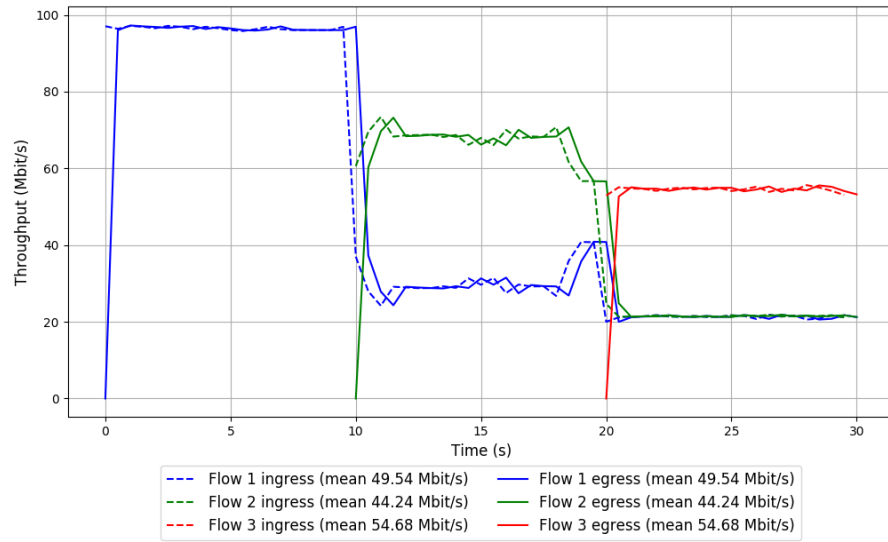
-- Flow 3:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 2.581 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 08:58:21

End at: 2019-11-24 08:58:51

Local clock offset: -5.435 ms

Remote clock offset: 0.518 ms

# Below is generated by plot.py at 2019-11-24 09:43:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 4.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 2.964 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 4.903 ms

Loss rate: 0.00%

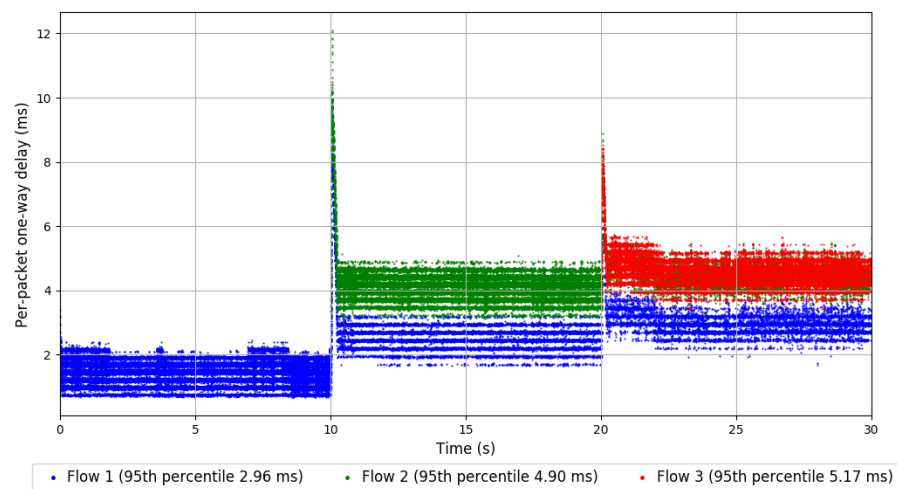
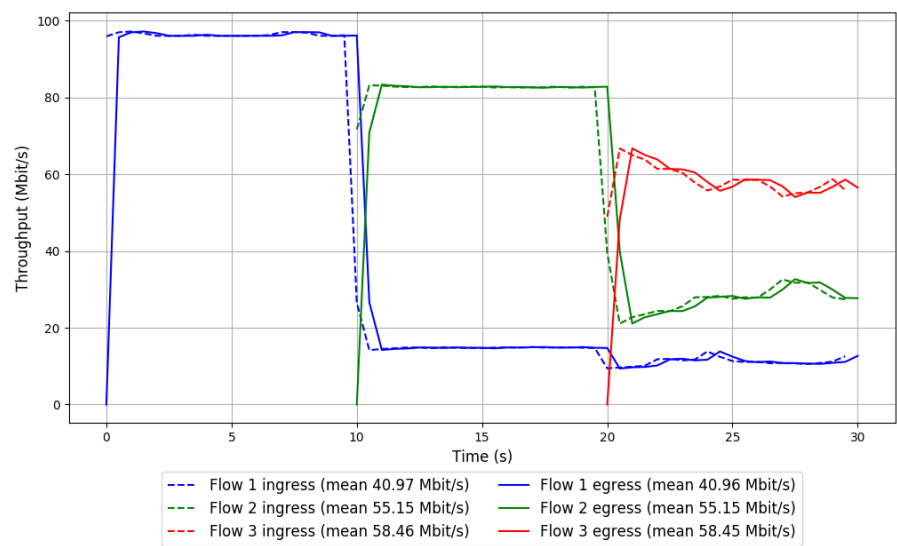
-- Flow 3:

Average throughput: 58.45 Mbit/s

95th percentile per-packet one-way delay: 5.166 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link





Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 09:25:40

End at: 2019-11-24 09:26:10

Local clock offset: -5.552 ms

Remote clock offset: 0.352 ms

# Below is generated by plot.py at 2019-11-24 09:43:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 5.683 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 12.229 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.24 Mbit/s

95th percentile per-packet one-way delay: 4.277 ms

Loss rate: 0.00%

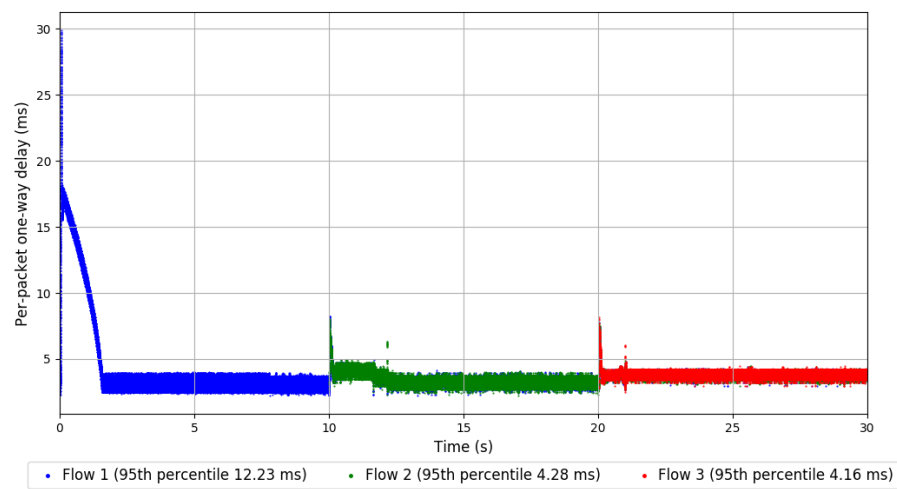
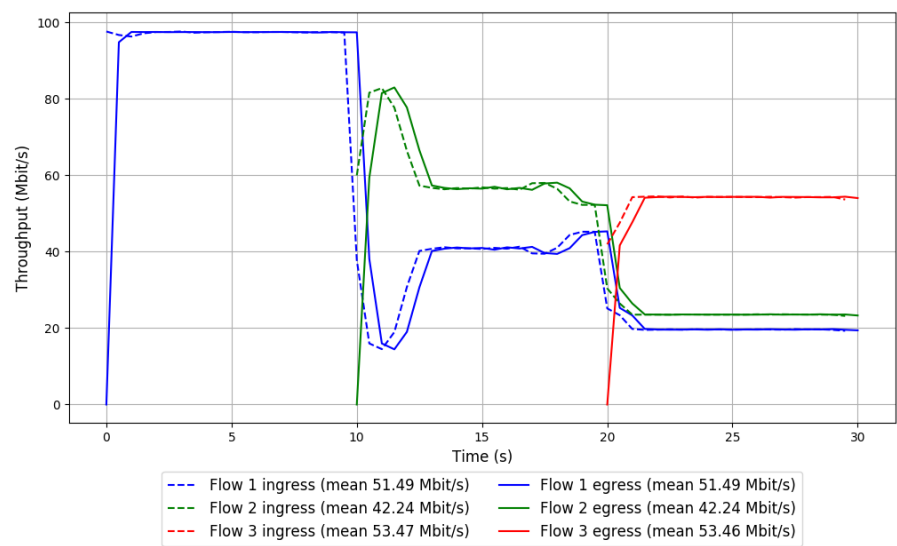
-- Flow 3:

Average throughput: 53.46 Mbit/s

95th percentile per-packet one-way delay: 4.160 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-11-24 07:17:31

End at: 2019-11-24 07:18:01

Local clock offset: -6.961 ms

Remote clock offset: 0.7 ms

# Below is generated by plot.py at 2019-11-24 09:43:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 52.39 Mbit/s

95th percentile per-packet one-way delay: 28.775 ms

Loss rate: 4.83%

-- Flow 1:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 26.529 ms

Loss rate: 3.59%

-- Flow 2:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 29.440 ms

Loss rate: 5.68%

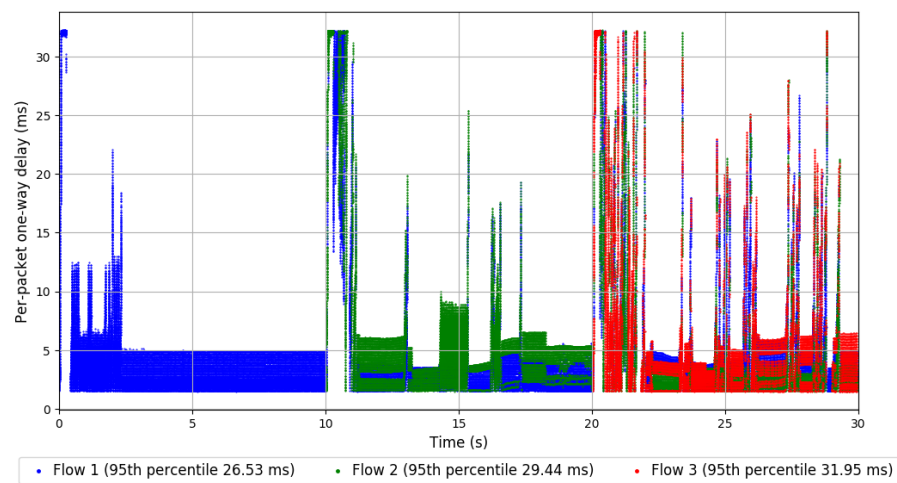
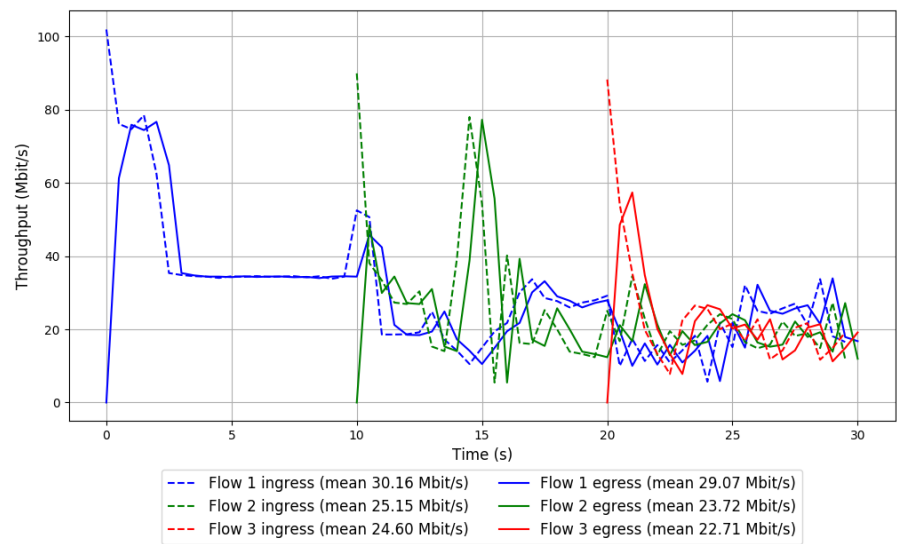
-- Flow 3:

Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 31.954 ms

Loss rate: 7.67%

Run 1: Report of Verus — Data Link

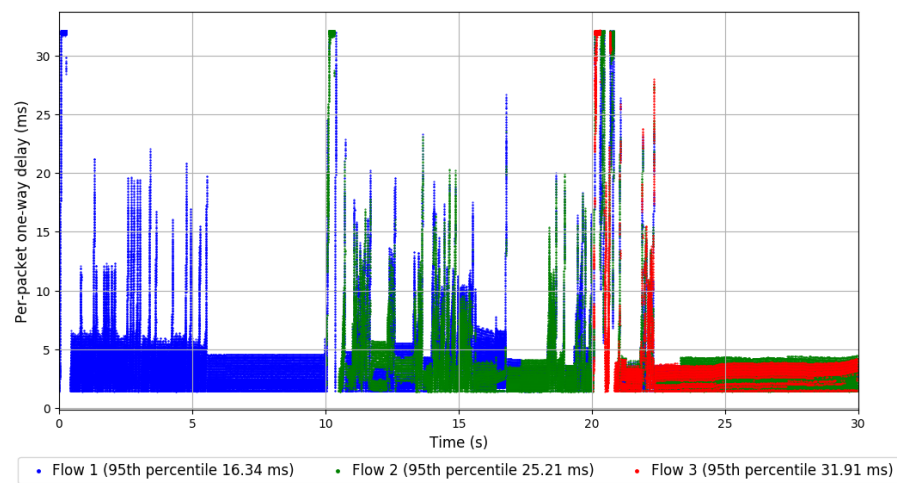
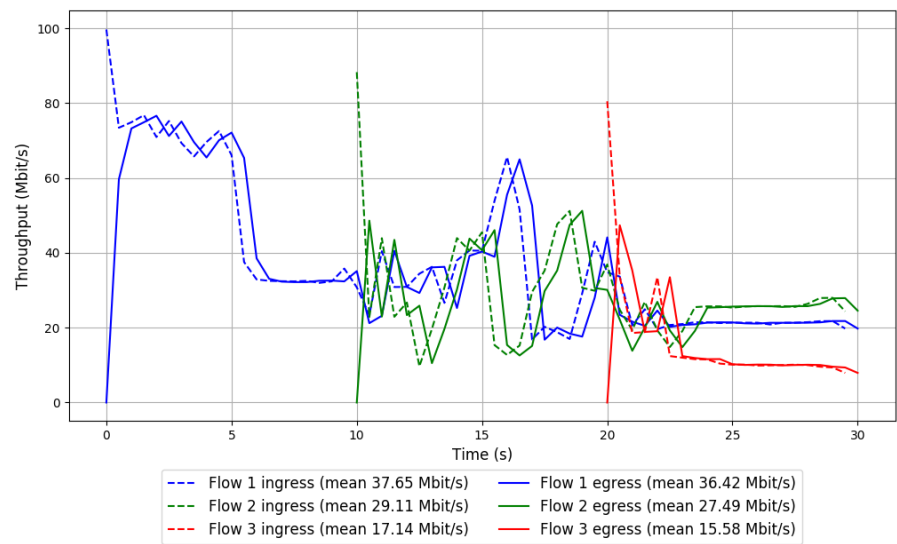


Run 2: Statistics of Verus

Start at: 2019-11-24 07:44:44  
End at: 2019-11-24 07:45:14  
Local clock offset: -7.416 ms  
Remote clock offset: 0.77 ms

# Below is generated by plot.py at 2019-11-24 09:44:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.88 Mbit/s  
95th percentile per-packet one-way delay: 21.564 ms  
Loss rate: 4.49%  
-- Flow 1:  
Average throughput: 36.42 Mbit/s  
95th percentile per-packet one-way delay: 16.335 ms  
Loss rate: 3.25%  
-- Flow 2:  
Average throughput: 27.49 Mbit/s  
95th percentile per-packet one-way delay: 25.208 ms  
Loss rate: 5.56%  
-- Flow 3:  
Average throughput: 15.58 Mbit/s  
95th percentile per-packet one-way delay: 31.910 ms  
Loss rate: 9.08%

Run 2: Report of Verus — Data Link

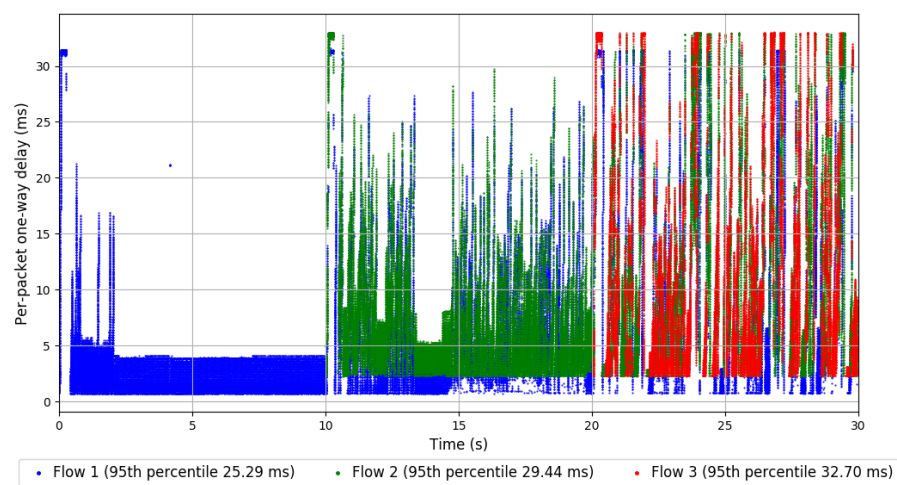
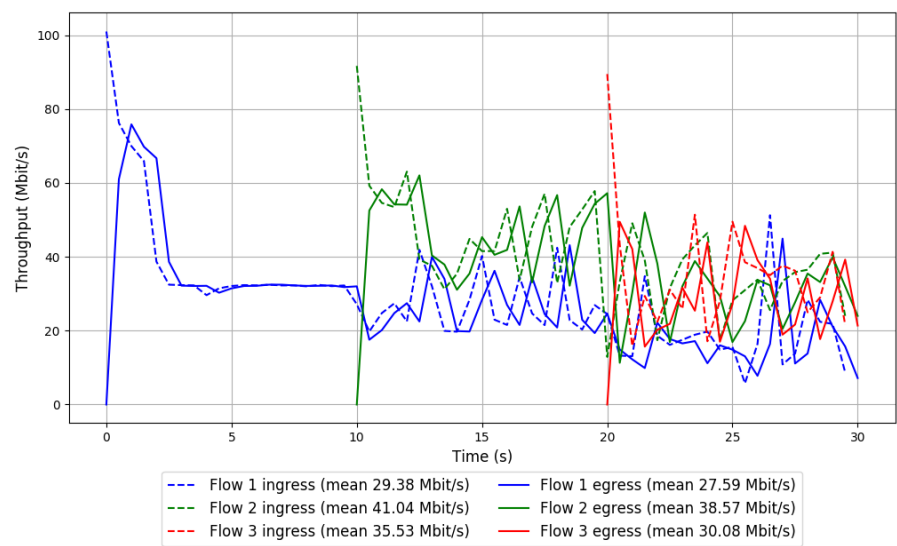


Run 3: Statistics of Verus

Start at: 2019-11-24 08:11:55  
End at: 2019-11-24 08:12:25  
Local clock offset: -6.554 ms  
Remote clock offset: 0.739 ms

# Below is generated by plot.py at 2019-11-24 09:44:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.22 Mbit/s  
95th percentile per-packet one-way delay: 29.999 ms  
Loss rate: 7.64%  
-- Flow 1:  
Average throughput: 27.59 Mbit/s  
95th percentile per-packet one-way delay: 25.291 ms  
Loss rate: 6.08%  
-- Flow 2:  
Average throughput: 38.57 Mbit/s  
95th percentile per-packet one-way delay: 29.441 ms  
Loss rate: 6.02%  
-- Flow 3:  
Average throughput: 30.08 Mbit/s  
95th percentile per-packet one-way delay: 32.704 ms  
Loss rate: 15.29%

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-11-24 08:39:05

End at: 2019-11-24 08:39:35

Local clock offset: -6.505 ms

Remote clock offset: 0.67 ms

# Below is generated by plot.py at 2019-11-24 09:44:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.97 Mbit/s

95th percentile per-packet one-way delay: 29.779 ms

Loss rate: 6.80%

-- Flow 1:

Average throughput: 25.81 Mbit/s

95th percentile per-packet one-way delay: 28.684 ms

Loss rate: 6.84%

-- Flow 2:

Average throughput: 44.44 Mbit/s

95th percentile per-packet one-way delay: 29.318 ms

Loss rate: 5.53%

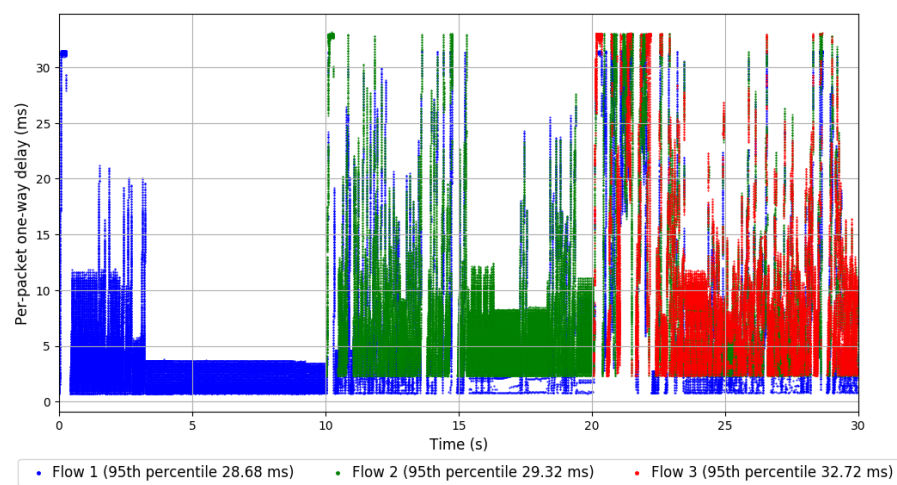
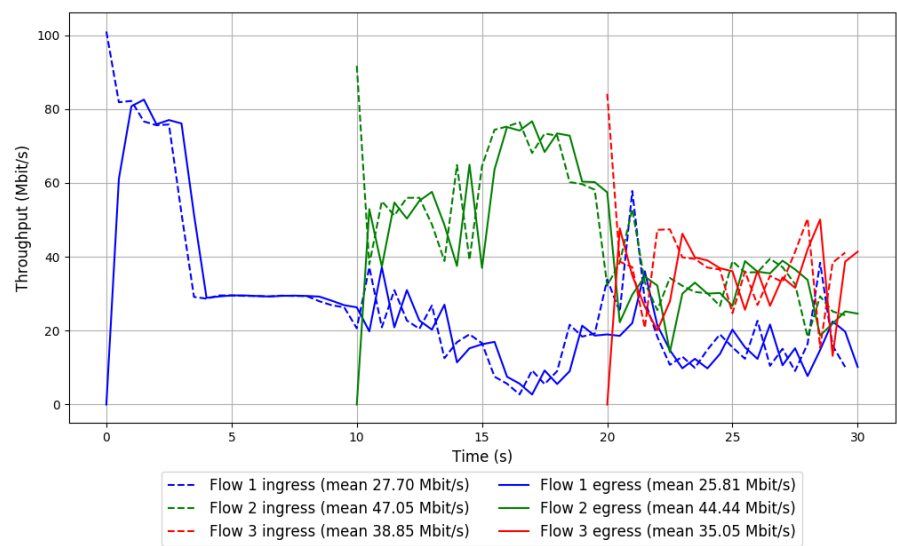
-- Flow 3:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 32.716 ms

Loss rate: 9.83%

Run 4: Report of Verus — Data Link

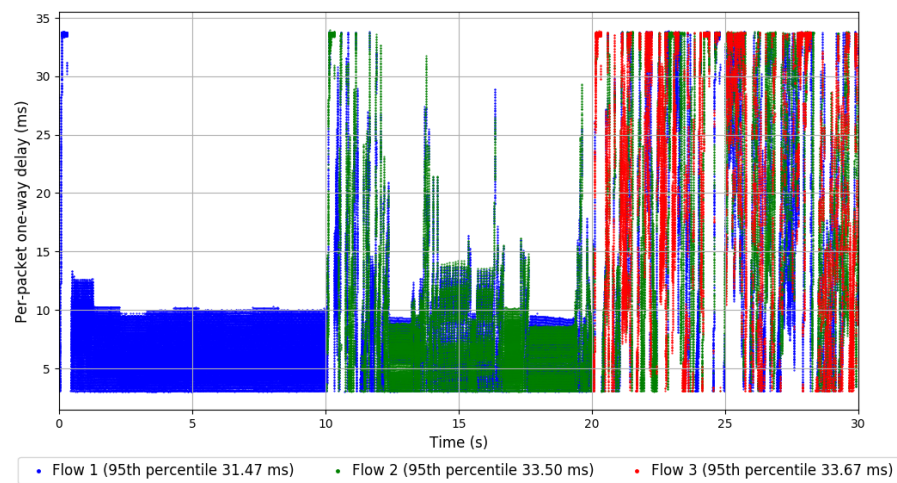
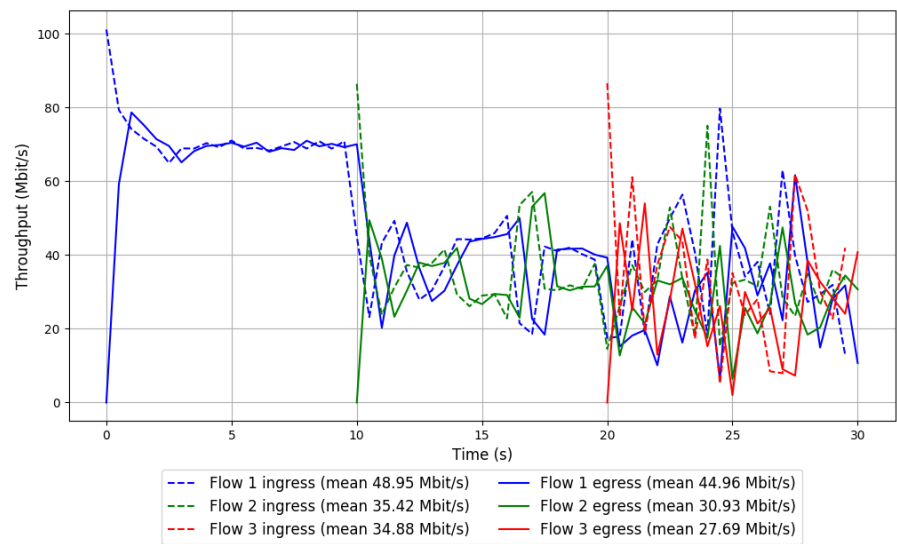


Run 5: Statistics of Verus

Start at: 2019-11-24 09:06:15  
End at: 2019-11-24 09:06:45  
Local clock offset: -6.028 ms  
Remote clock offset: 0.593 ms

```
# Below is generated by plot.py at 2019-11-24 09:44:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.71 Mbit/s
95th percentile per-packet one-way delay: 33.470 ms
Loss rate: 11.11%
-- Flow 1:
Average throughput: 44.96 Mbit/s
95th percentile per-packet one-way delay: 31.466 ms
Loss rate: 8.12%
-- Flow 2:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 33.497 ms
Loss rate: 12.65%
-- Flow 3:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 33.668 ms
Loss rate: 20.64%
```

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 07:32:12

End at: 2019-11-24 07:32:42

Local clock offset: -7.443 ms

Remote clock offset: 0.67 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.69 Mbit/s

95th percentile per-packet one-way delay: 3.683 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 3.610 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.00 Mbit/s

95th percentile per-packet one-way delay: 2.669 ms

Loss rate: 0.00%

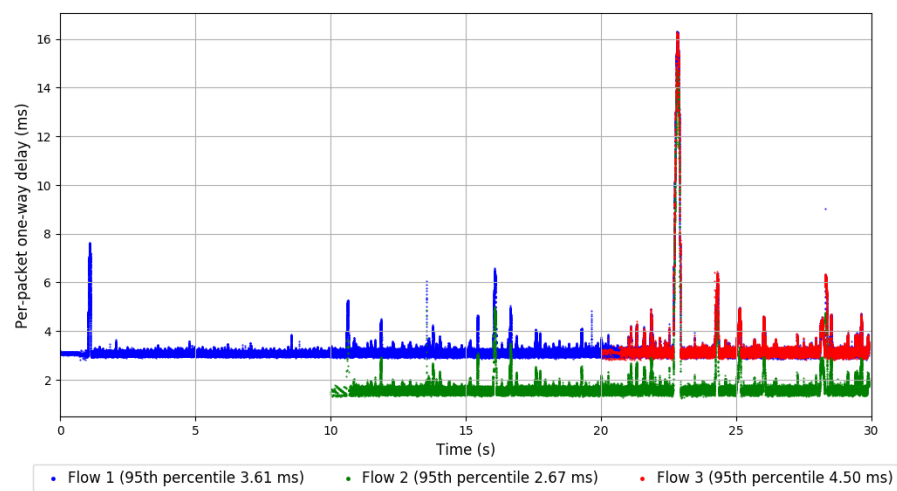
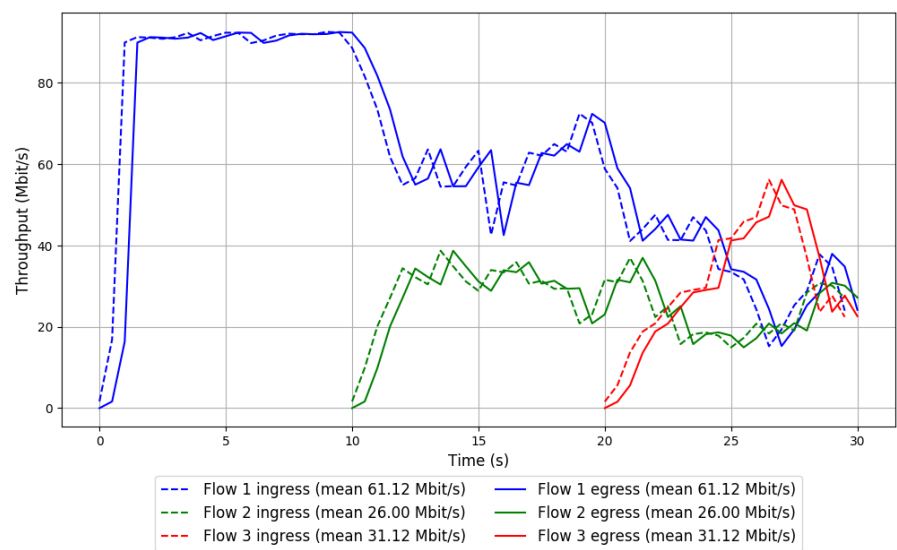
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 4.500 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

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

End at: 2019-11-24 07:59:54

Local clock offset: -7.322 ms

Remote clock offset: 0.749 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 3.301 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 3.342 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 2.342 ms

Loss rate: 0.00%

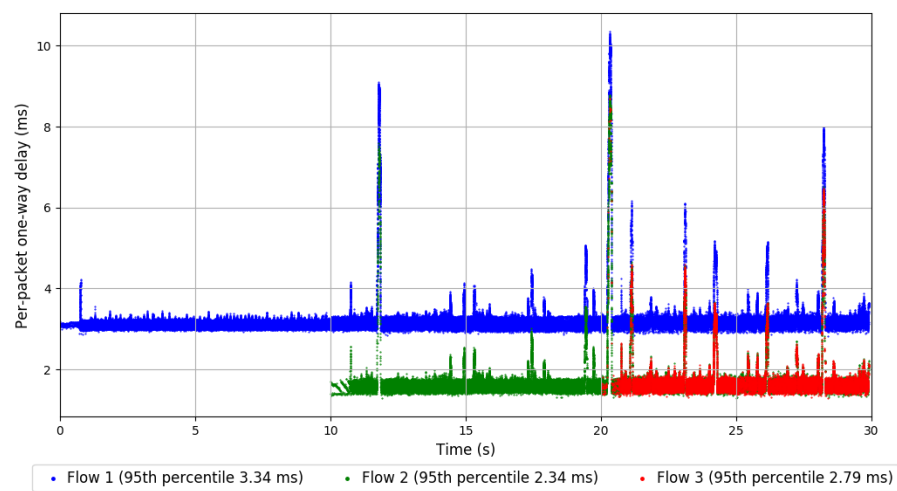
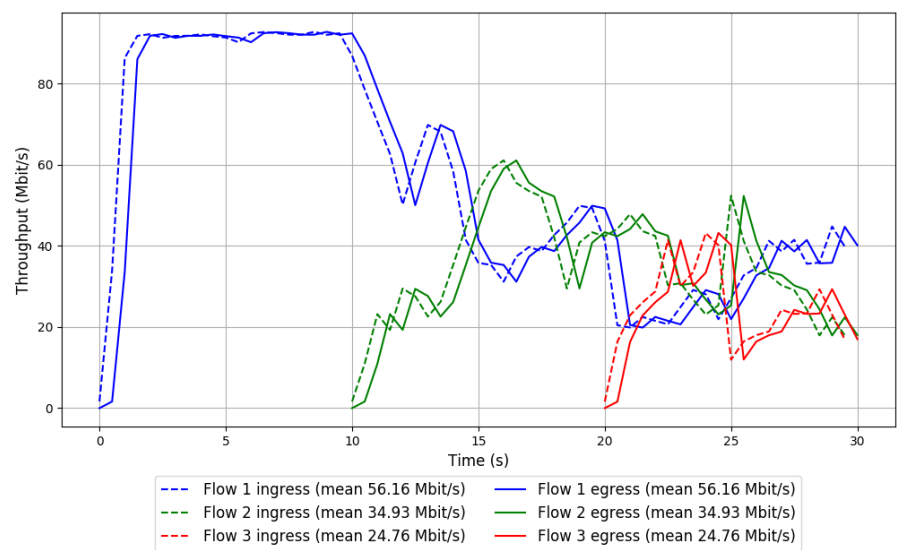
-- Flow 3:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 2.791 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 08:26:34

End at: 2019-11-24 08:27:04

Local clock offset: -7.263 ms

Remote clock offset: 0.653 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 3.308 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.78 Mbit/s

95th percentile per-packet one-way delay: 1.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 2.326 ms

Loss rate: 0.00%

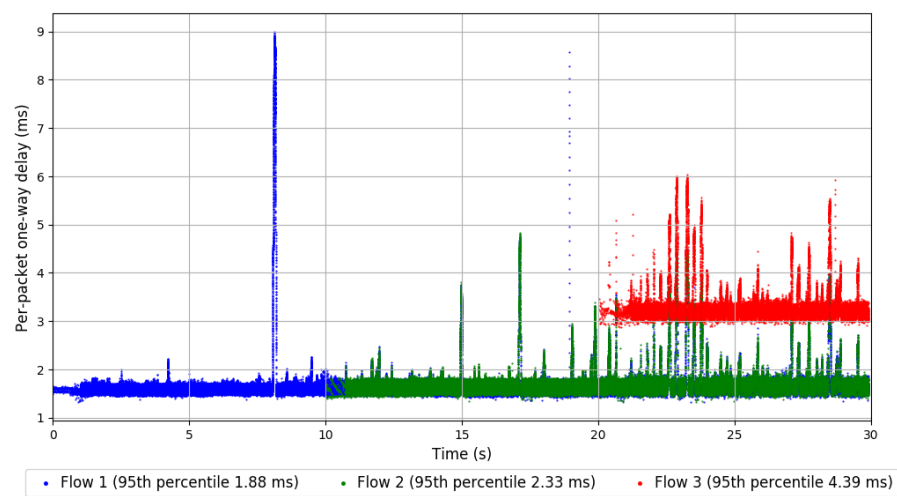
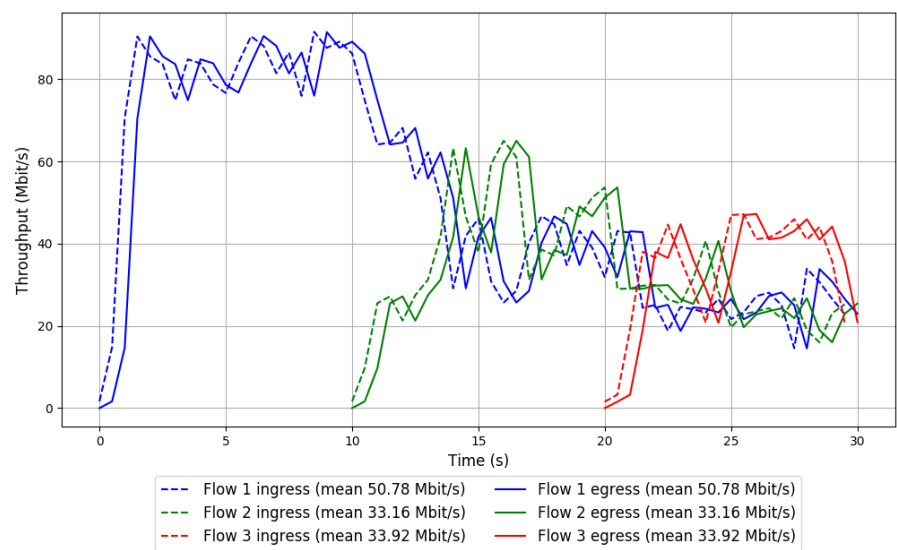
-- Flow 3:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 4.388 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 08:53:44

End at: 2019-11-24 08:54:14

Local clock offset: -5.557 ms

Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 2.605 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.74 Mbit/s

95th percentile per-packet one-way delay: 2.825 ms

Loss rate: 0.00%

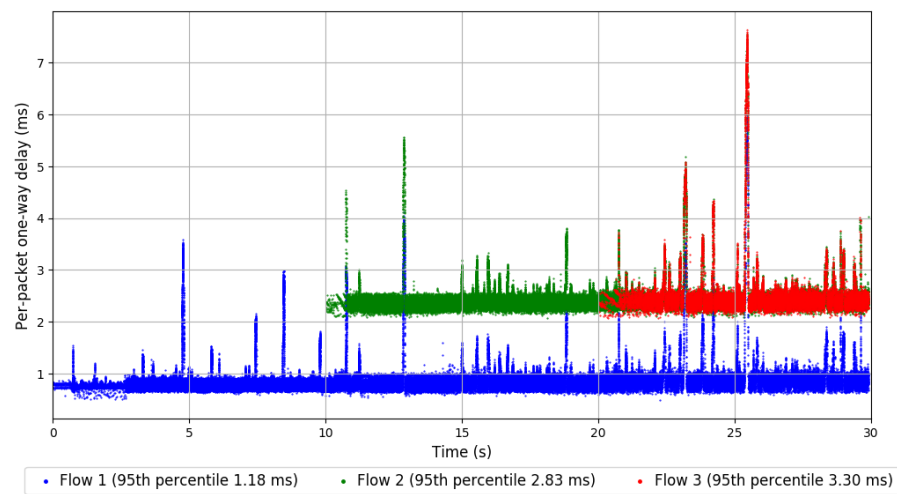
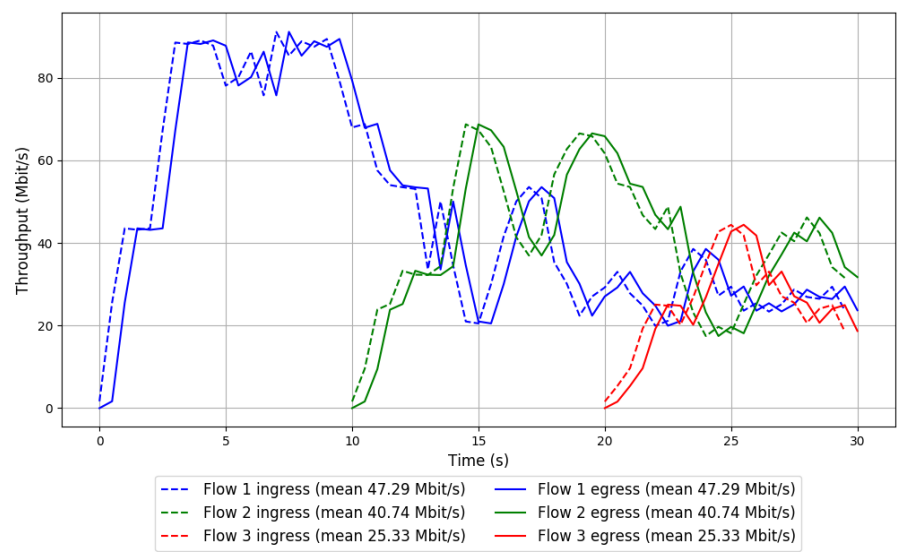
-- Flow 3:

Average throughput: 25.33 Mbit/s

95th percentile per-packet one-way delay: 3.296 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 09:21:02

End at: 2019-11-24 09:21:32

Local clock offset: -5.511 ms

Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.87 Mbit/s

95th percentile per-packet one-way delay: 3.858 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 1.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 3.759 ms

Loss rate: 0.00%

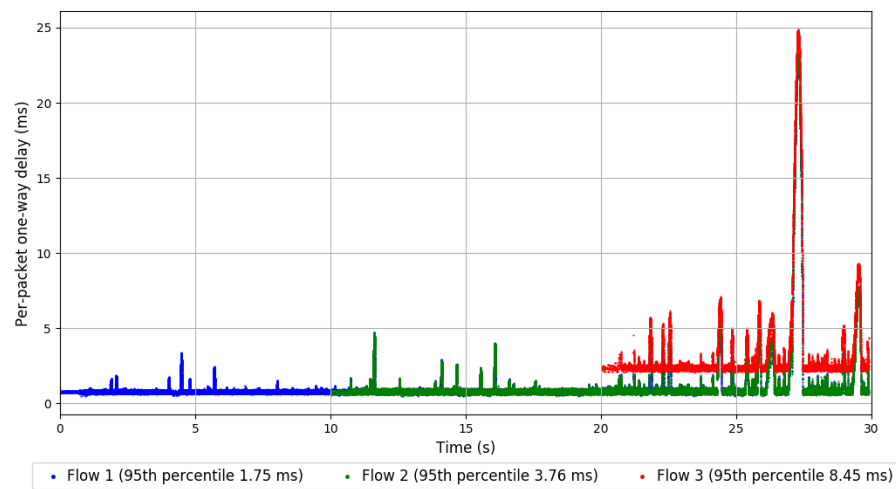
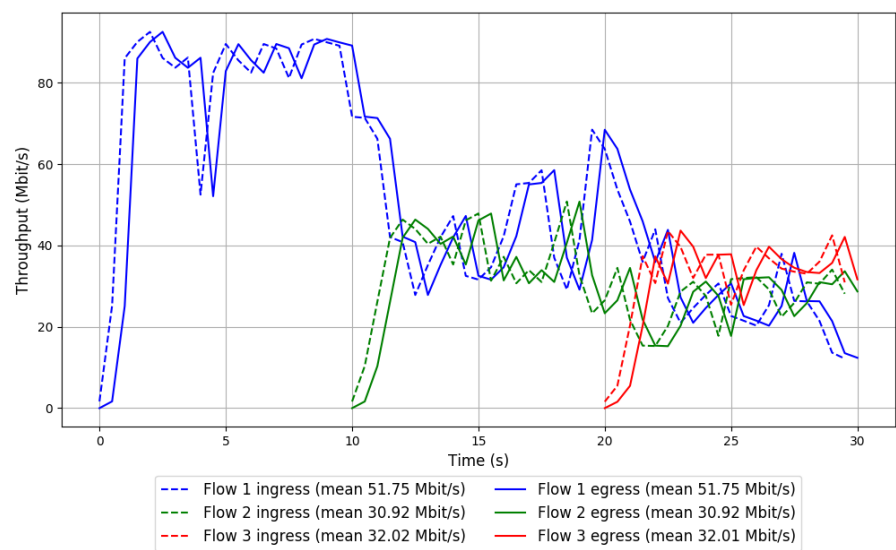
-- Flow 3:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 8.448 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-11-24 07:16:26

End at: 2019-11-24 07:16:56

Local clock offset: -6.814 ms

Remote clock offset: 0.663 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 4.421 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.266 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.458 ms

Loss rate: 0.00%

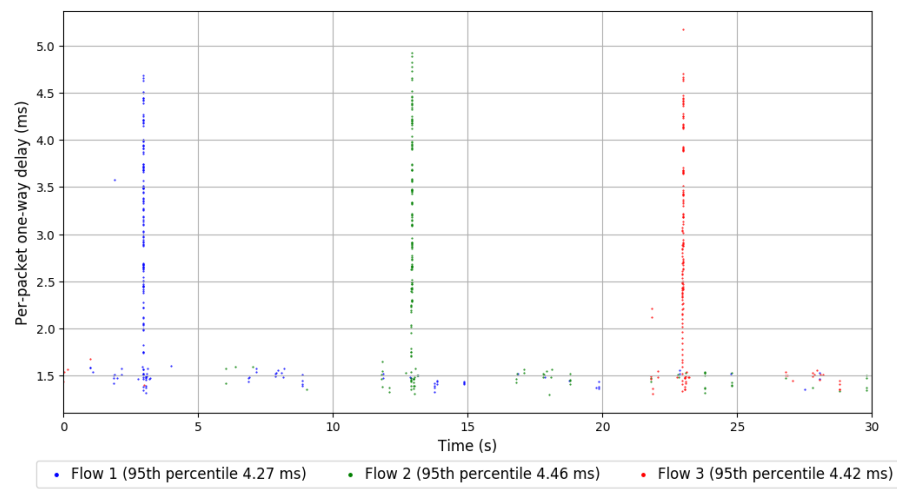
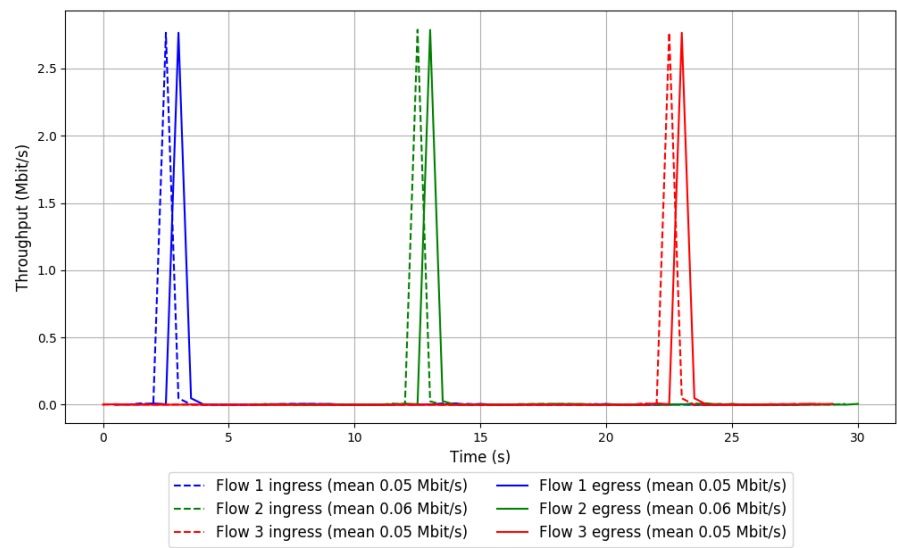
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.421 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-11-24 07:43:38

End at: 2019-11-24 07:44:08

Local clock offset: -6.7 ms

Remote clock offset: 0.743 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 4.313 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.117 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.452 ms

Loss rate: 0.00%

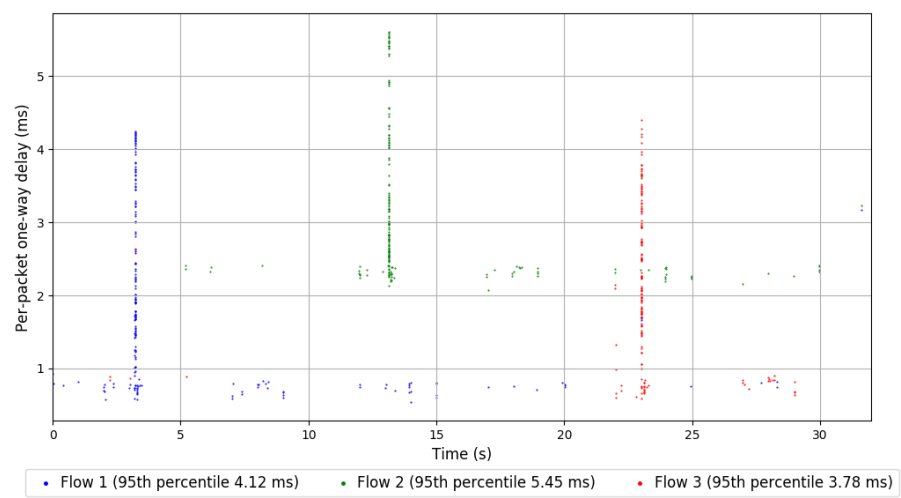
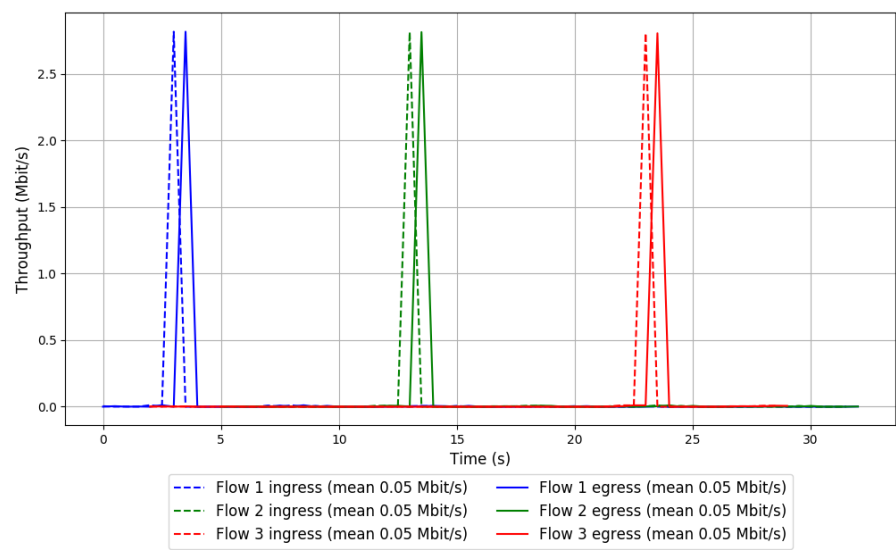
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.779 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

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

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

Local clock offset: -6.573 ms

Remote clock offset: 0.626 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 3.344 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 2.944 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.105 ms

Loss rate: 0.00%

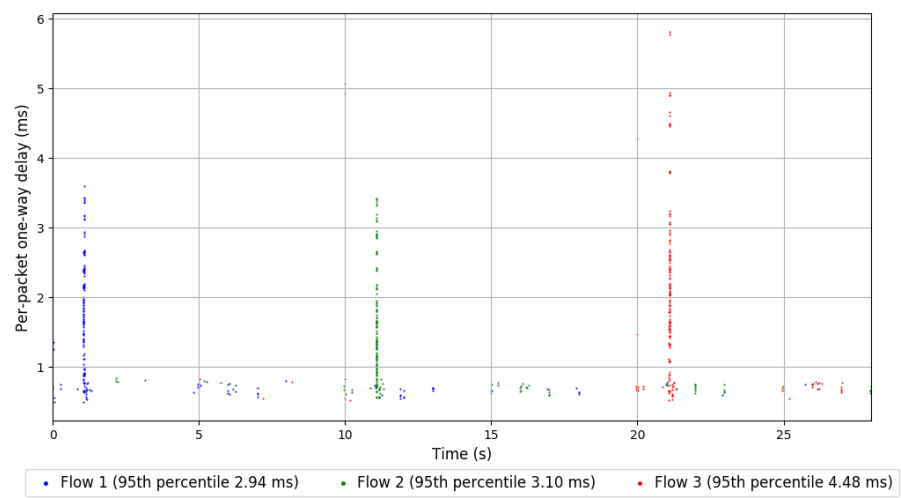
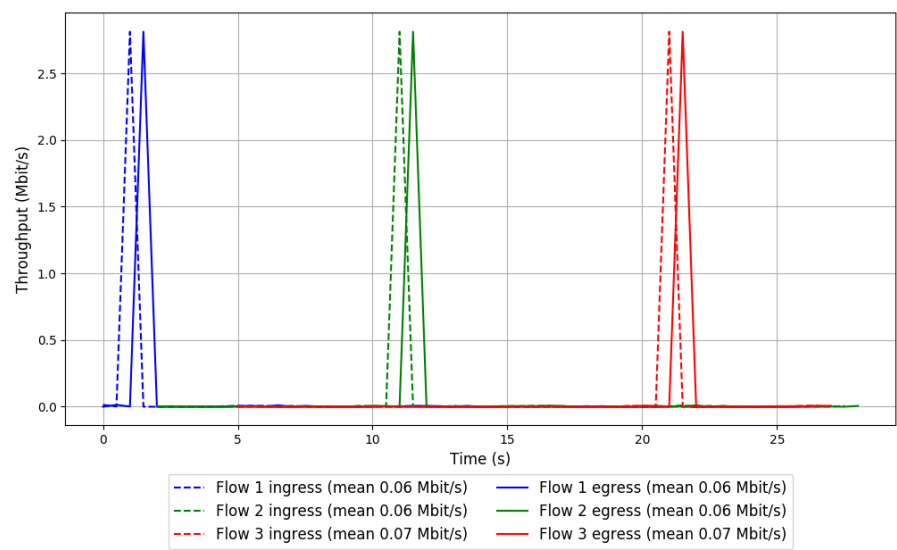
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 4.479 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

End at: 2019-11-24 08:38:29

Local clock offset: -7.261 ms

Remote clock offset: 0.664 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 4.812 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.812 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.890 ms

Loss rate: 0.00%

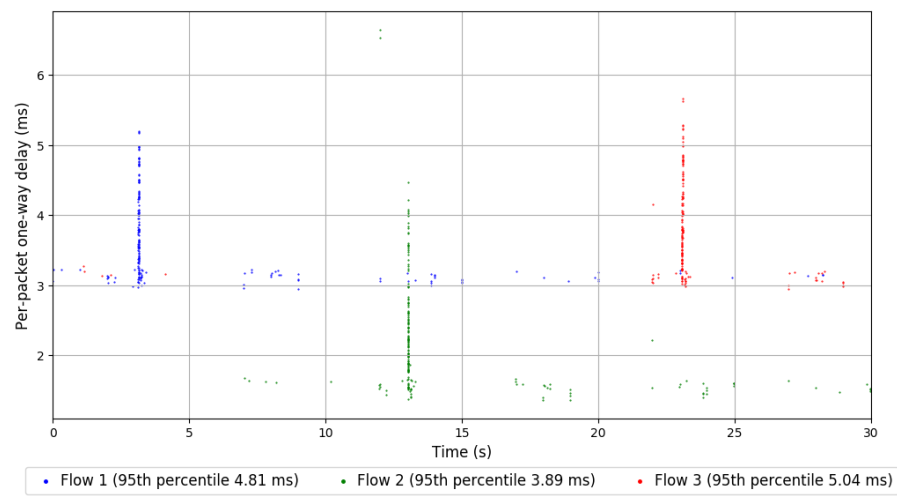
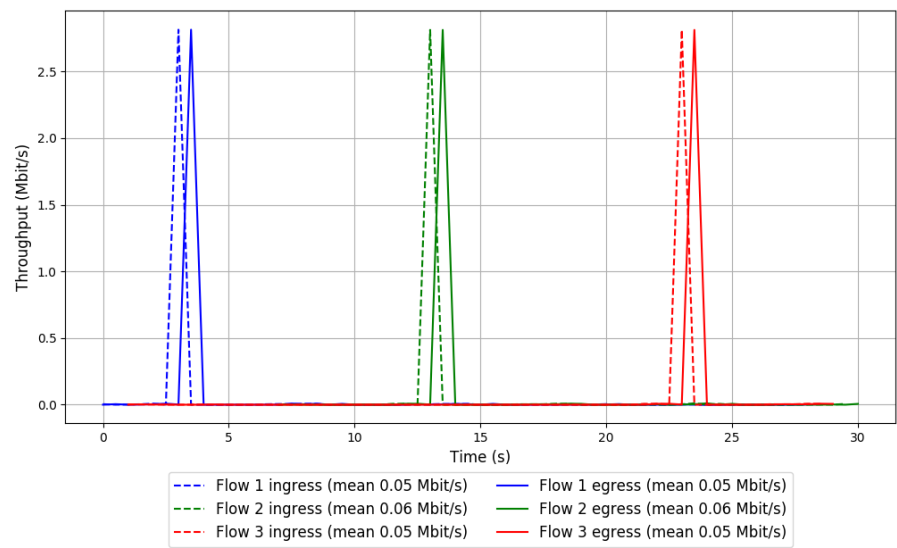
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.045 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 09:05:10

End at: 2019-11-24 09:05:40

Local clock offset: -6.131 ms

Remote clock offset: 0.53 ms

# Below is generated by plot.py at 2019-11-24 09:44:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 4.901 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.946 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.036 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 5.163 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

