

## Pantheon Report

Generated at 2019-01-21 23:15:22 (UTC).

Data path: Brazil on **p4p1** (*remote*) → AWS Brazil 1 on **ens5** (*local*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

### System info:

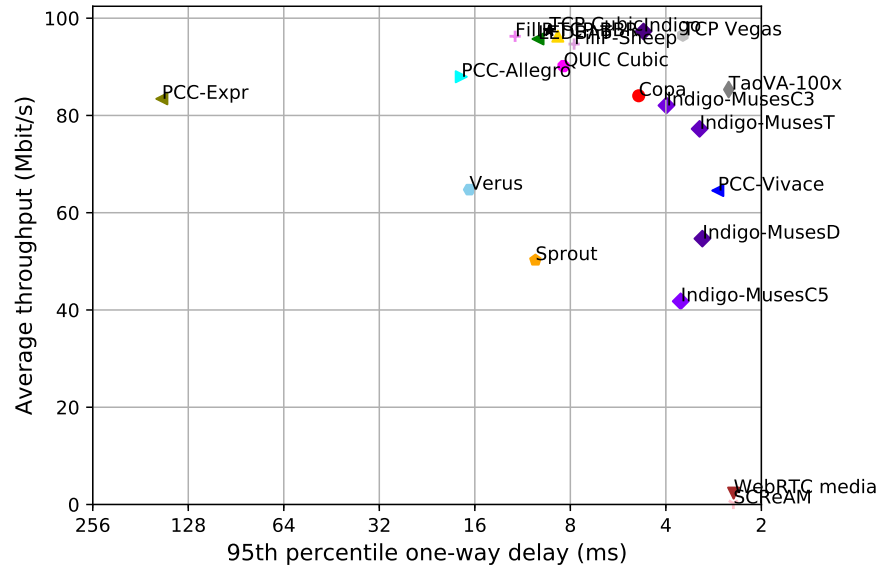
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

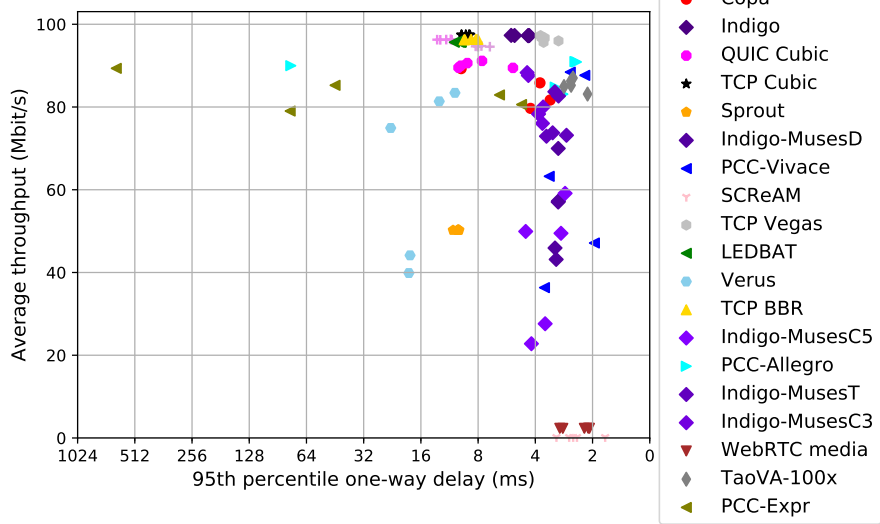
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
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 Brazil to AWS Brazil 1, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from Brazil to AWS Brazil 1, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.31	8.76	0.09
Copa	5	84.05	4.87	0.02
TCP Cubic	5	97.45	9.32	0.05
FillP	5	96.28	11.94	0.05
FillP-Sheep	5	94.68	7.78	0.03
Indigo	5	97.27	4.70	0.02
Indigo-MusesC3	5	82.05	3.98	0.02
Indigo-MusesC5	5	41.79	3.59	0.01
Indigo-MusesD	5	54.67	3.07	0.02
Indigo-MusesT	5	77.24	3.13	0.02
LEDBAT	5	95.73	10.12	0.08
PCC-Allegro	5	87.96	17.65	0.04
PCC-Expr	5	83.42	155.07	0.99
QUIC Cubic	5	90.15	8.40	0.03
SCReAM	5	0.22	2.45	0.00
Sprout	5	50.25	10.31	0.01
TaoVA-100x	5	85.33	2.54	0.02
TCP Vegas	5	96.47	3.54	0.01
Verus	5	64.75	16.64	0.06
PCC-Vivace	5	64.56	2.74	0.02
WebRTC media	5	2.34	2.45	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-01-21 21:25:10

End at: 2019-01-21 21:25:40

Local clock offset: -5.537 ms

Remote clock offset: 0.485 ms

# Below is generated by plot.py at 2019-01-21 23:03:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 8.214 ms

Loss rate: 0.03%

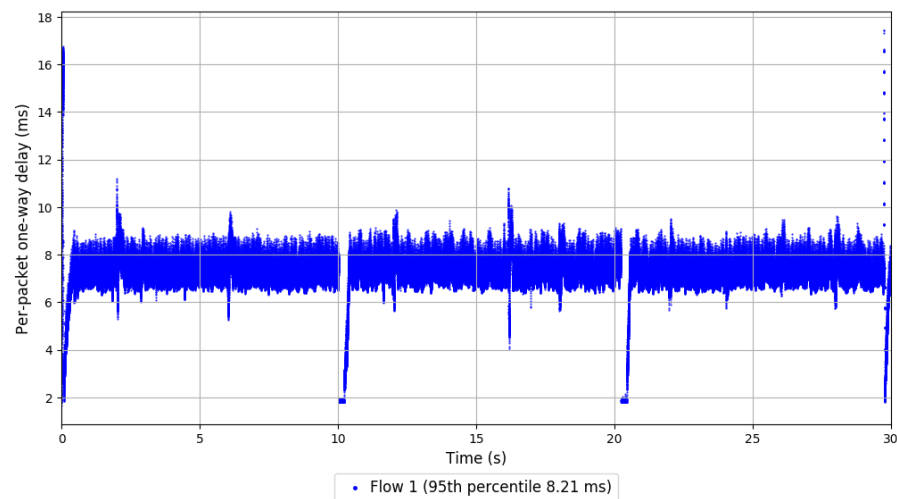
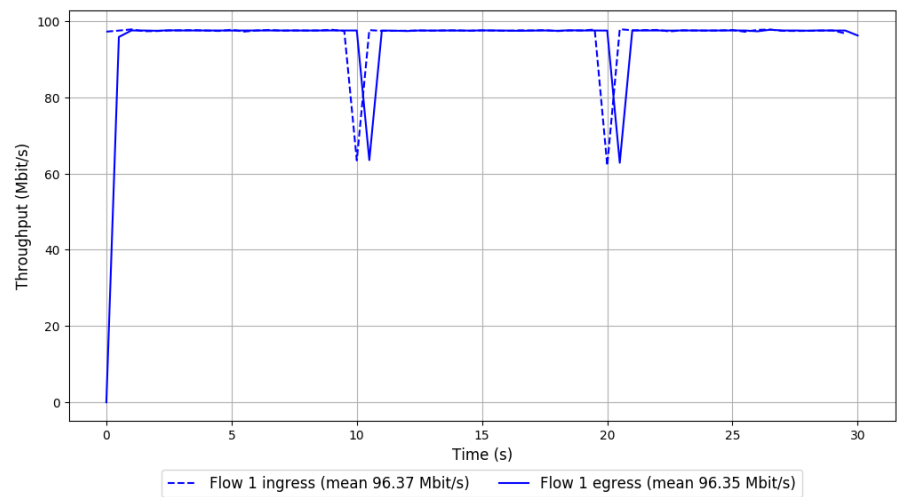
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 8.214 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-21 21:48:52

End at: 2019-01-21 21:49:22

Local clock offset: -5.359 ms

Remote clock offset: 0.862 ms

# Below is generated by plot.py at 2019-01-21 23:03:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.390 ms

Loss rate: 0.18%

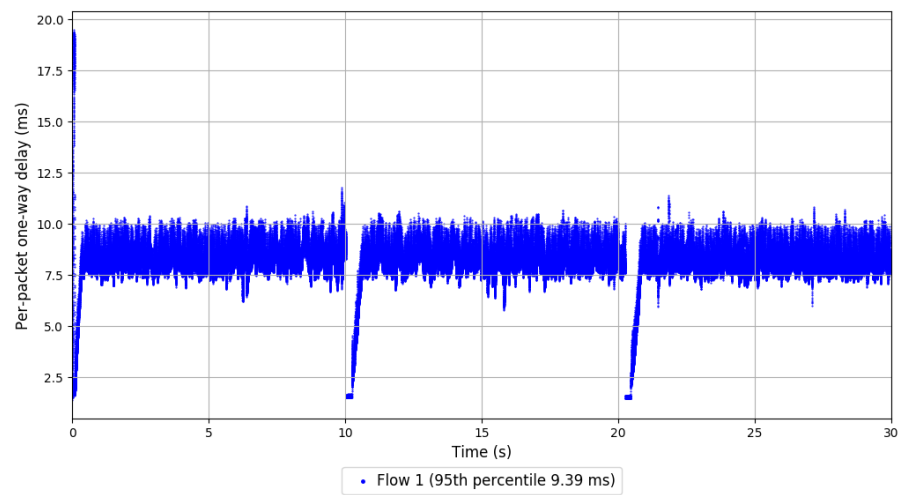
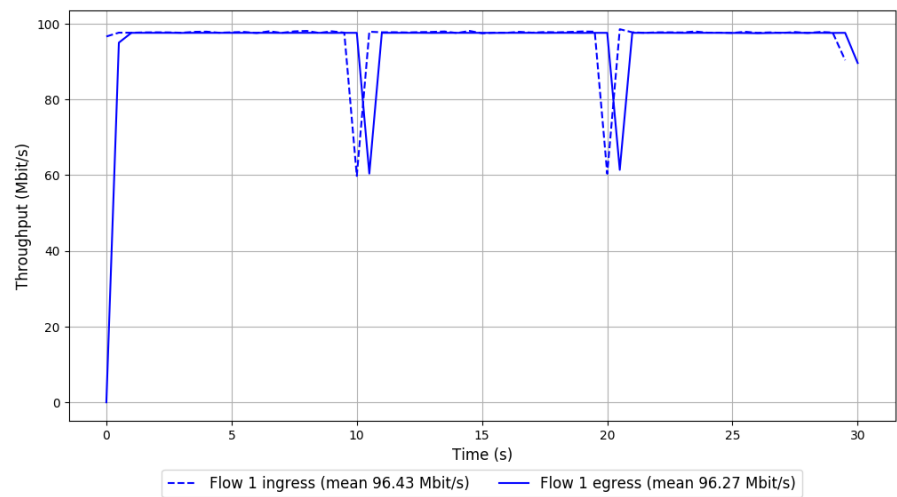
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 9.390 ms

Loss rate: 0.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-21 22:12:34

End at: 2019-01-21 22:13:04

Local clock offset: -4.015 ms

Remote clock offset: 1.013 ms

# Below is generated by plot.py at 2019-01-21 23:03:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.021 ms

Loss rate: 0.03%

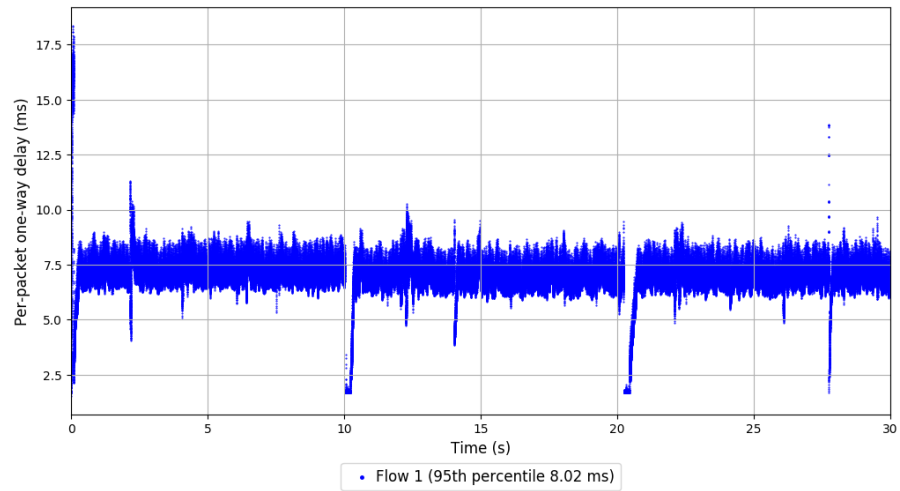
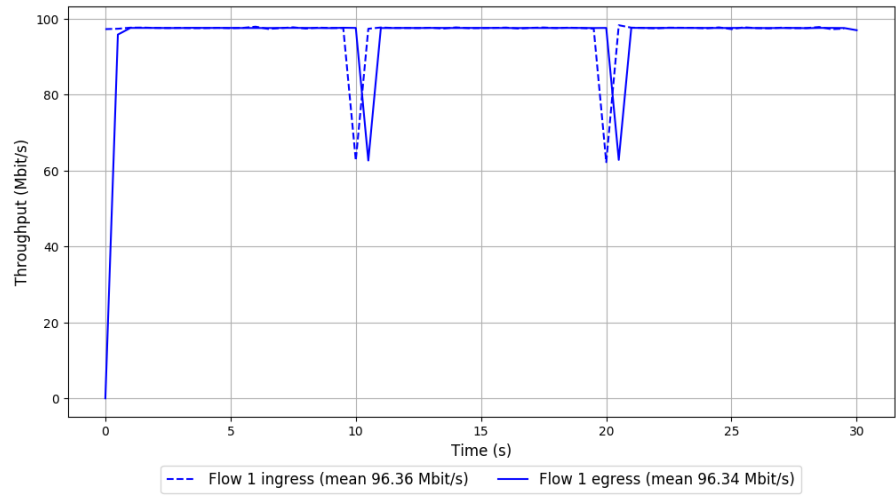
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.021 ms

Loss rate: 0.03%

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



Run 4: Statistics of TCP BBR

Start at: 2019-01-21 22:36:17

End at: 2019-01-21 22:36:47

Local clock offset: -5.163 ms

Remote clock offset: 1.078 ms

# Below is generated by plot.py at 2019-01-21 23:03:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 9.471 ms

Loss rate: 0.20%

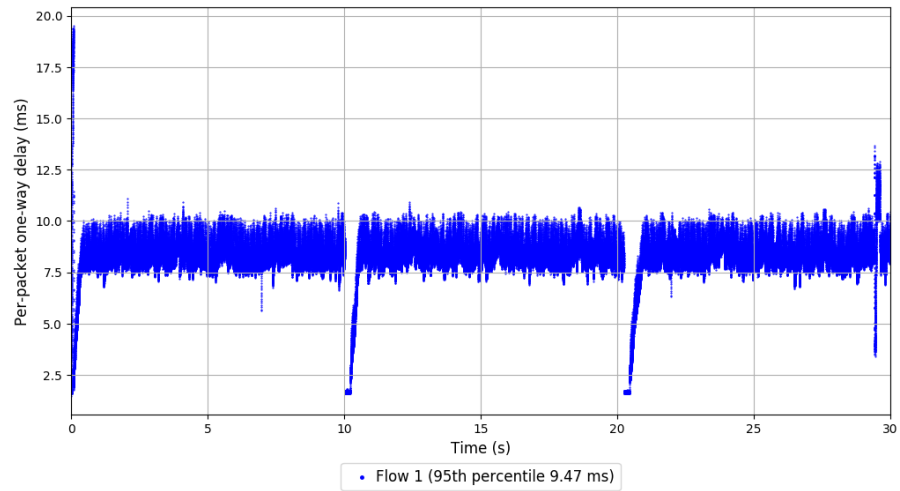
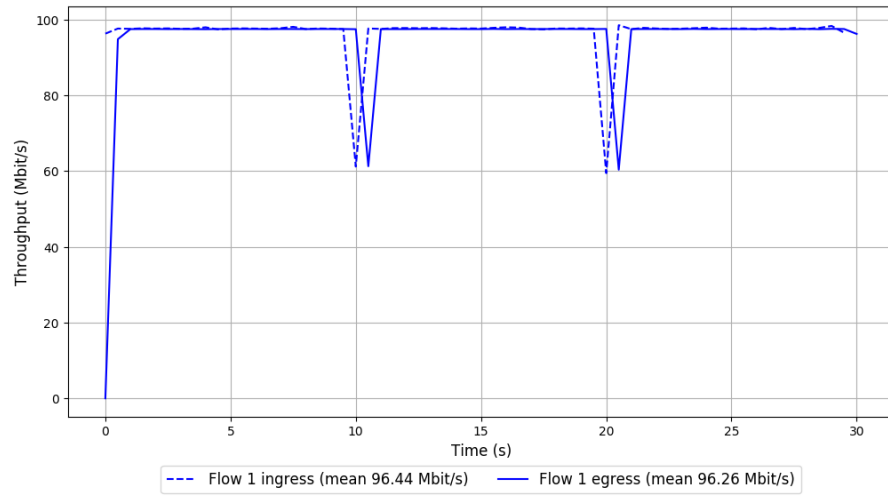
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 9.471 ms

Loss rate: 0.20%

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





Run 5: Statistics of TCP BBR

Start at: 2019-01-21 22:59:57

End at: 2019-01-21 23:00:27

Local clock offset: -4.857 ms

Remote clock offset: 0.847 ms

# Below is generated by plot.py at 2019-01-21 23:03:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 8.711 ms

Loss rate: 0.03%

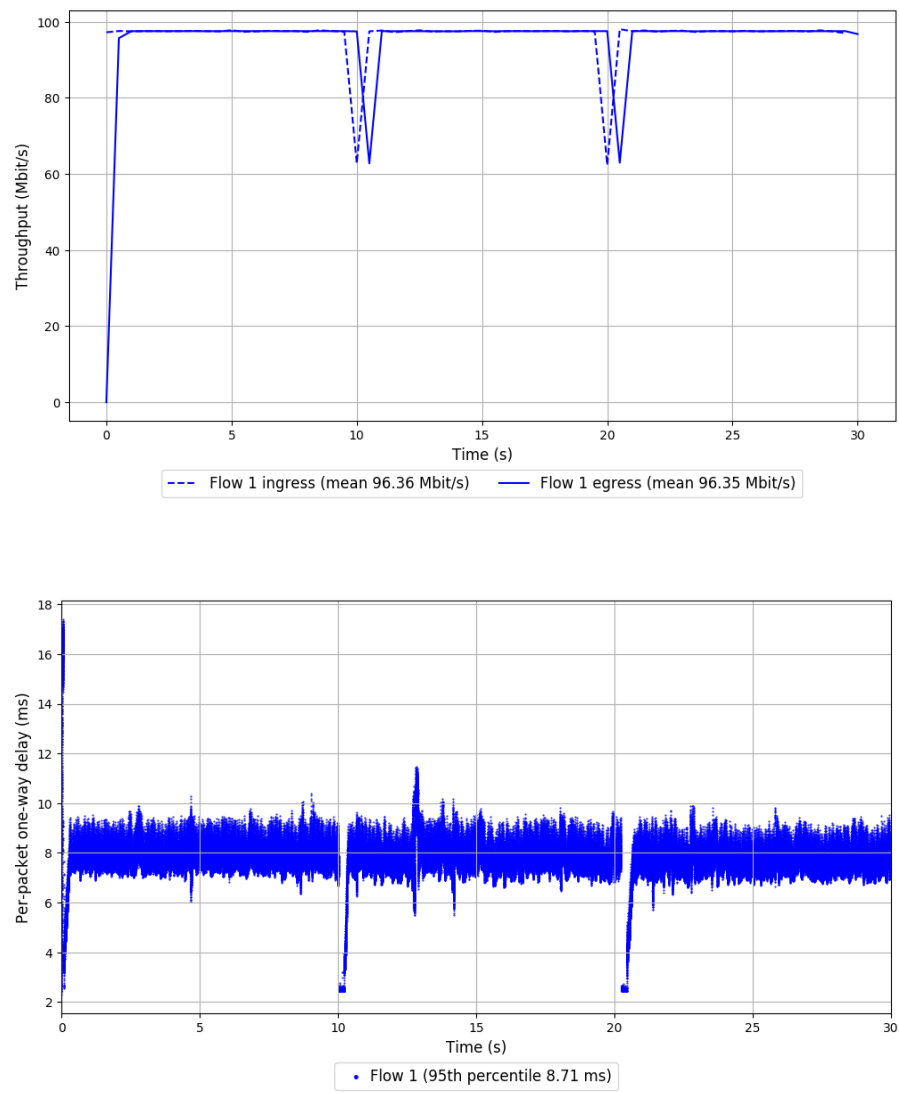
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 8.711 ms

Loss rate: 0.03%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-21 21:07:04

End at: 2019-01-21 21:07:34

Local clock offset: -4.508 ms

Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2019-01-21 23:04:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.27 Mbit/s

95th percentile per-packet one-way delay: 9.823 ms

Loss rate: 0.05%

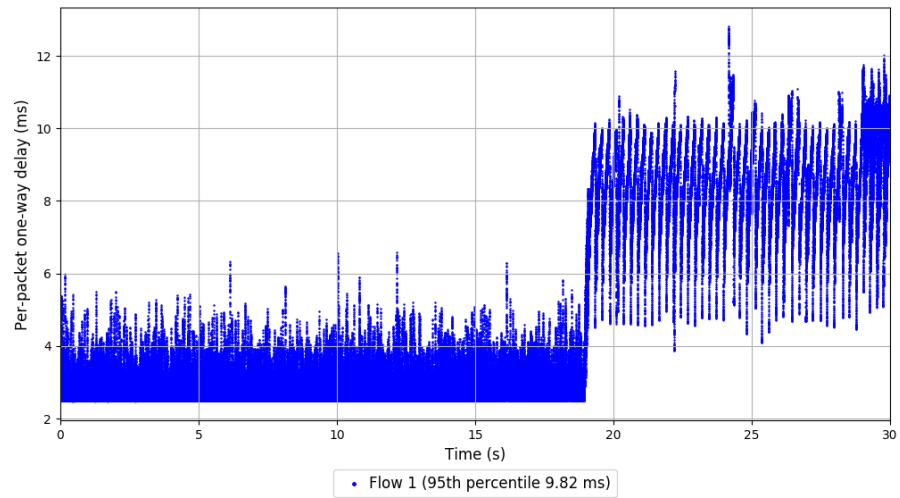
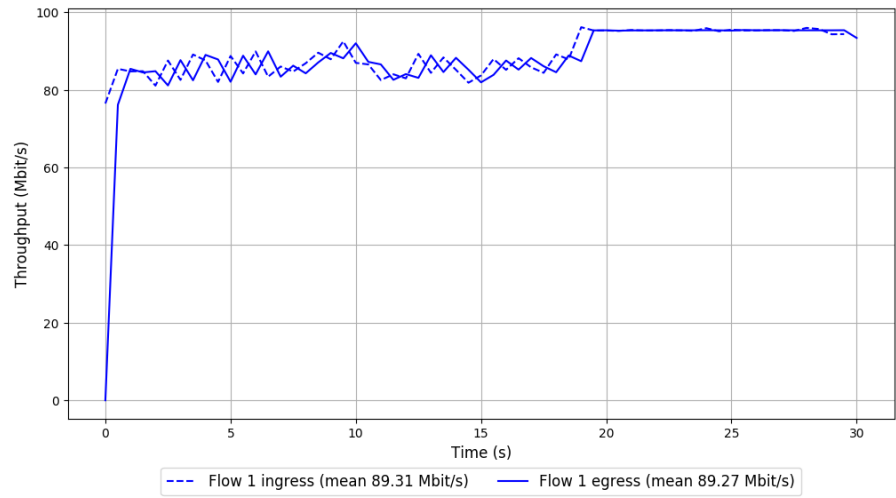
-- Flow 1:

Average throughput: 89.27 Mbit/s

95th percentile per-packet one-way delay: 9.823 ms

Loss rate: 0.05%

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-01-21 21:30:45

End at: 2019-01-21 21:31:15

Local clock offset: -5.674 ms

Remote clock offset: 0.636 ms

# Below is generated by plot.py at 2019-01-21 23:04:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.69 Mbit/s

95th percentile per-packet one-way delay: 3.343 ms

Loss rate: 0.02%

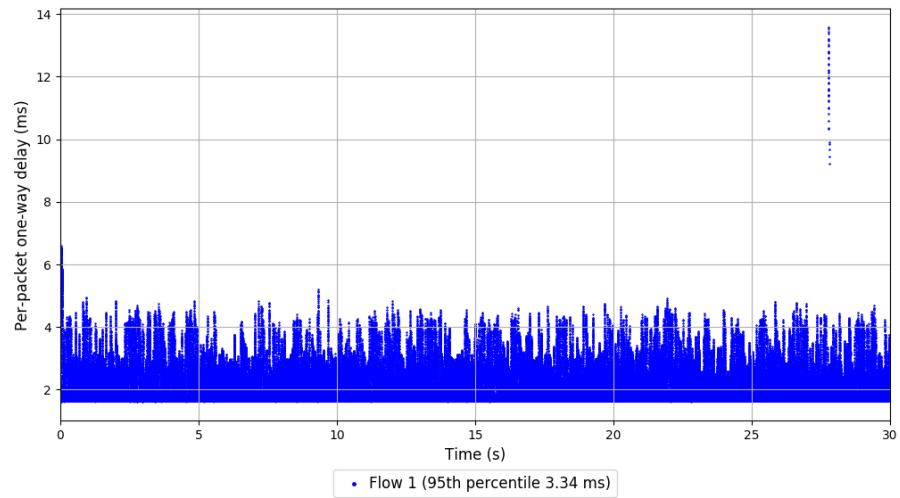
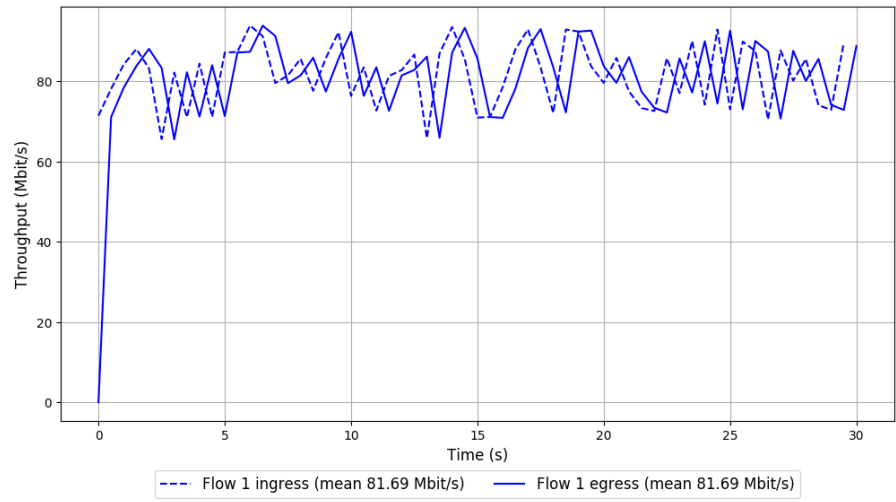
-- Flow 1:

Average throughput: 81.69 Mbit/s

95th percentile per-packet one-way delay: 3.343 ms

Loss rate: 0.02%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-21 21:54:27

End at: 2019-01-21 21:54:57

Local clock offset: -3.908 ms

Remote clock offset: 0.809 ms

# Below is generated by plot.py at 2019-01-21 23:04:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.67 Mbit/s

95th percentile per-packet one-way delay: 4.239 ms

Loss rate: 0.02%

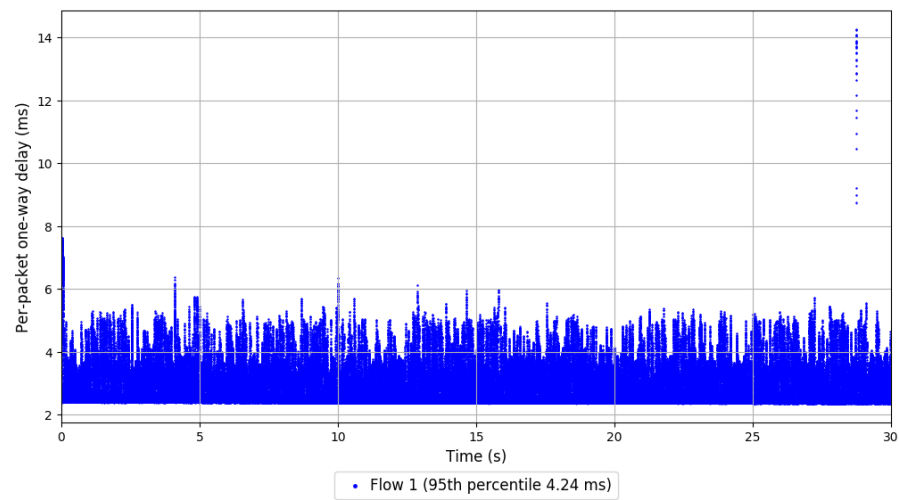
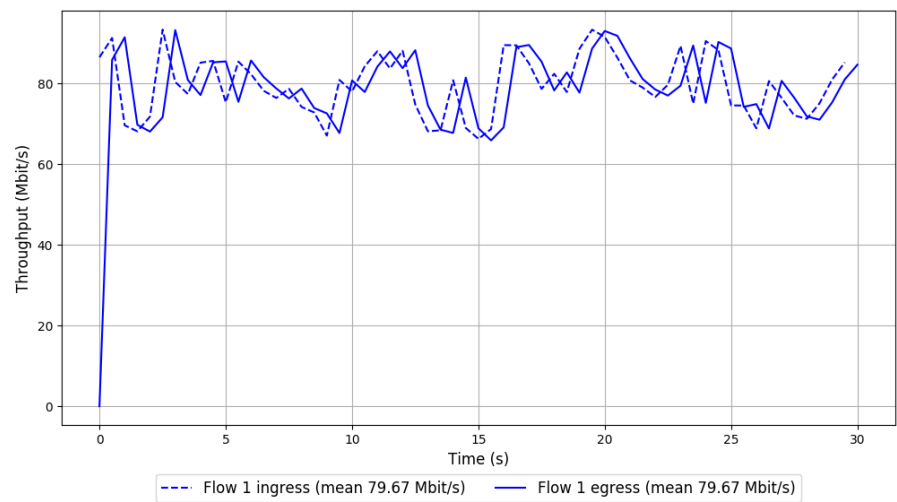
-- Flow 1:

Average throughput: 79.67 Mbit/s

95th percentile per-packet one-way delay: 4.239 ms

Loss rate: 0.02%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-01-21 22:18:09

End at: 2019-01-21 22:18:39

Local clock offset: -4.233 ms

Remote clock offset: 1.119 ms

# Below is generated by plot.py at 2019-01-21 23:05:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.76 Mbit/s

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

Loss rate: 0.01%

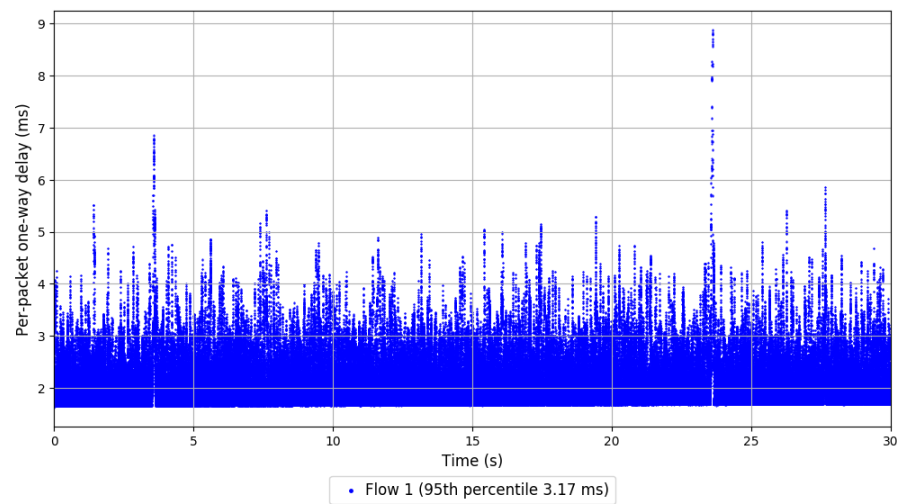
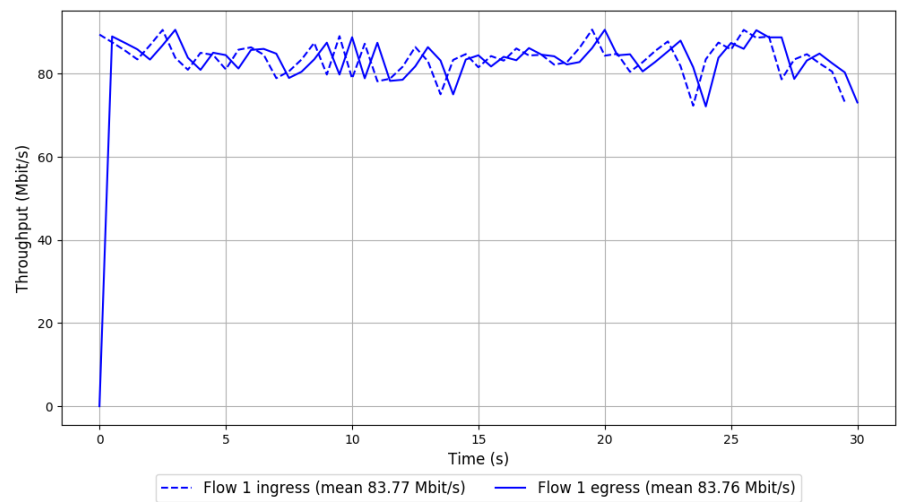
-- Flow 1:

Average throughput: 83.76 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-21 22:41:52

End at: 2019-01-21 22:42:22

Local clock offset: -4.512 ms

Remote clock offset: 1.061 ms

# Below is generated by plot.py at 2019-01-21 23:05:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.84 Mbit/s

95th percentile per-packet one-way delay: 3.781 ms

Loss rate: 0.01%

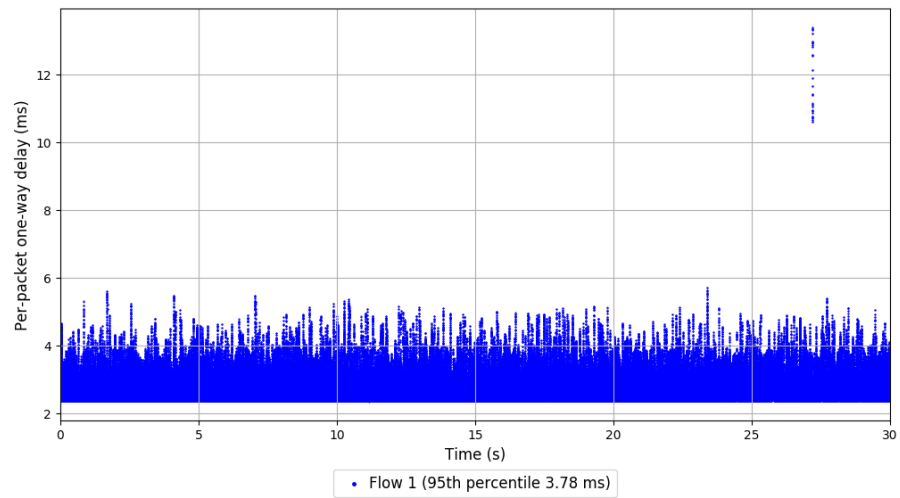
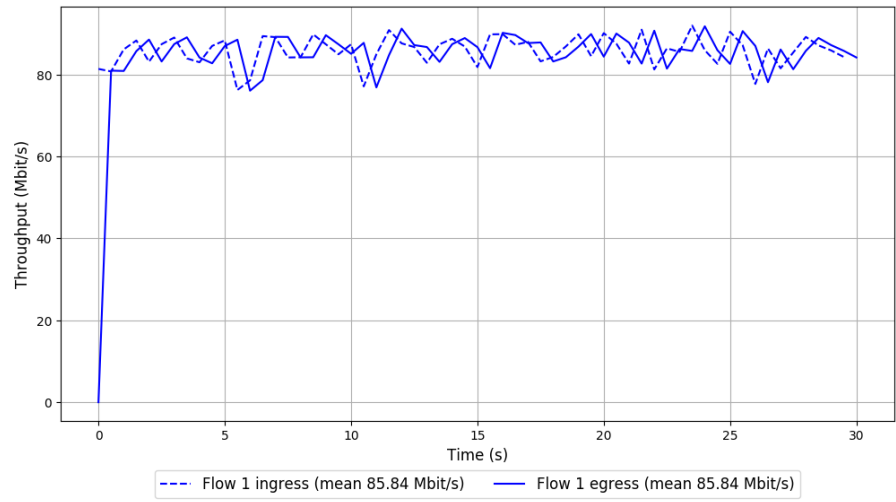
-- Flow 1:

Average throughput: 85.84 Mbit/s

95th percentile per-packet one-way delay: 3.781 ms

Loss rate: 0.01%

## Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-21 21:16:14

End at: 2019-01-21 21:16:44

Local clock offset: -5.626 ms

Remote clock offset: 0.389 ms

# Below is generated by plot.py at 2019-01-21 23:05:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 9.287 ms

Loss rate: 0.05%

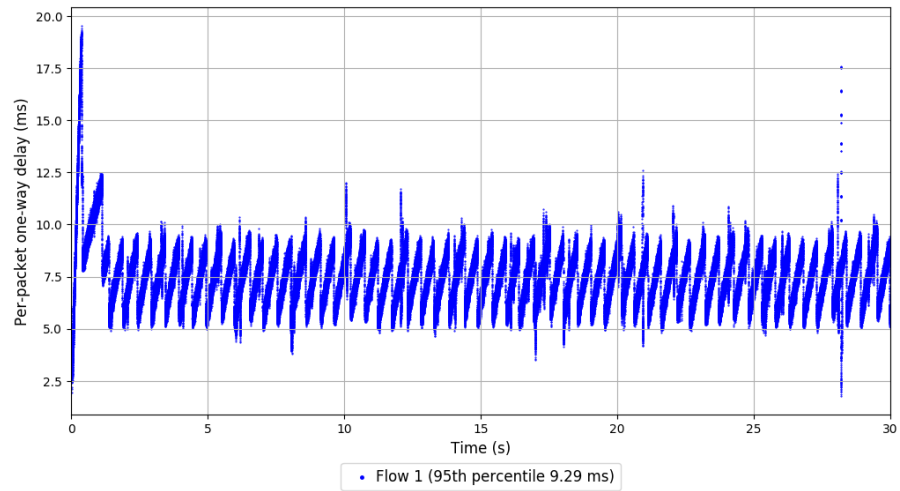
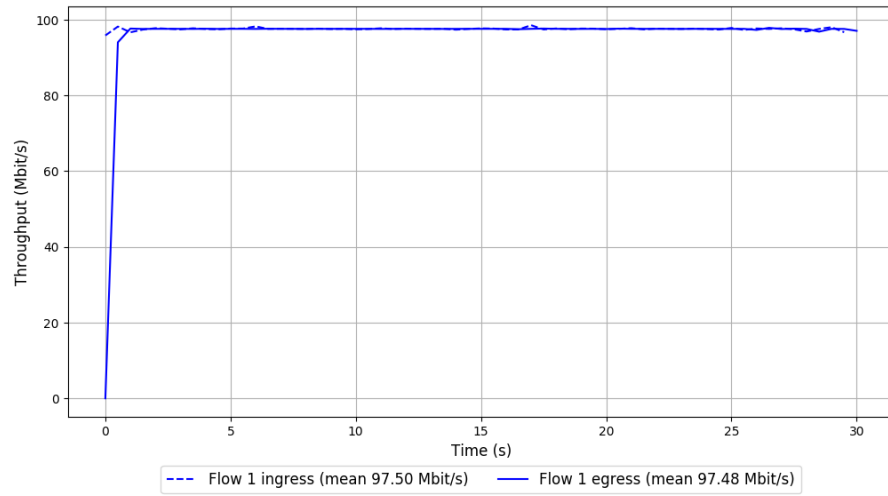
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 9.287 ms

Loss rate: 0.05%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-01-21 21:39:56

End at: 2019-01-21 21:40:26

Local clock offset: -5.791 ms

Remote clock offset: 0.798 ms

# Below is generated by plot.py at 2019-01-21 23:05:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 8.825 ms

Loss rate: 0.05%

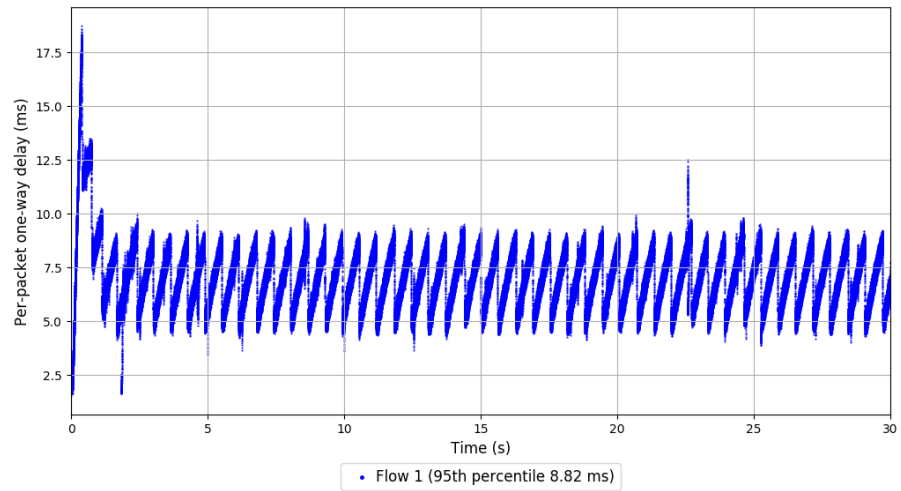
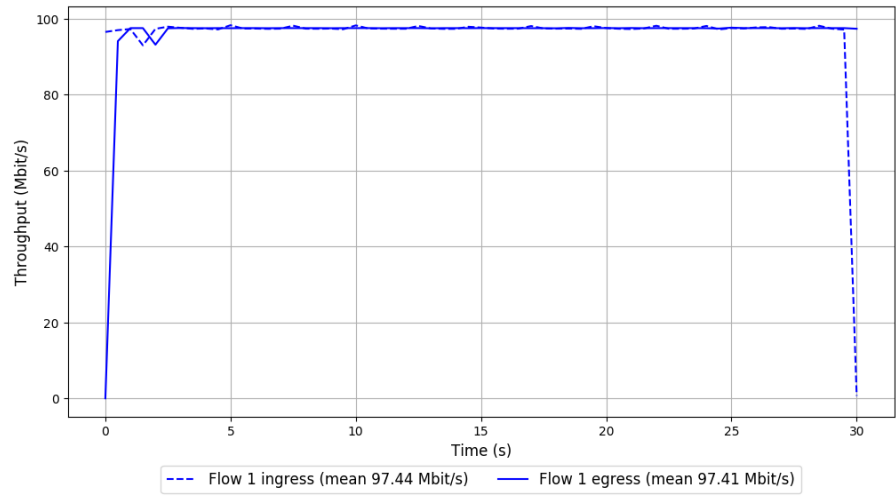
-- Flow 1:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 8.825 ms

Loss rate: 0.05%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-01-21 22:03:36

End at: 2019-01-21 22:04:06

Local clock offset: -3.417 ms

Remote clock offset: 1.002 ms

# Below is generated by plot.py at 2019-01-21 23:05:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 9.764 ms

Loss rate: 0.05%

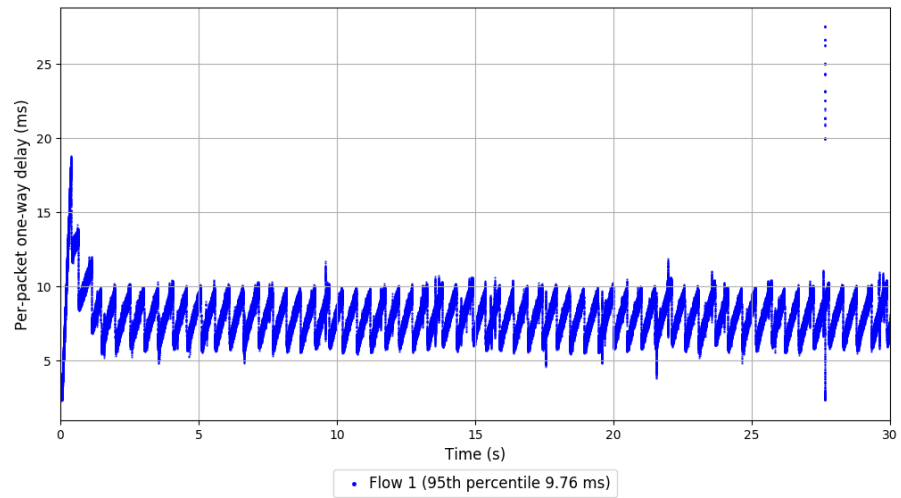
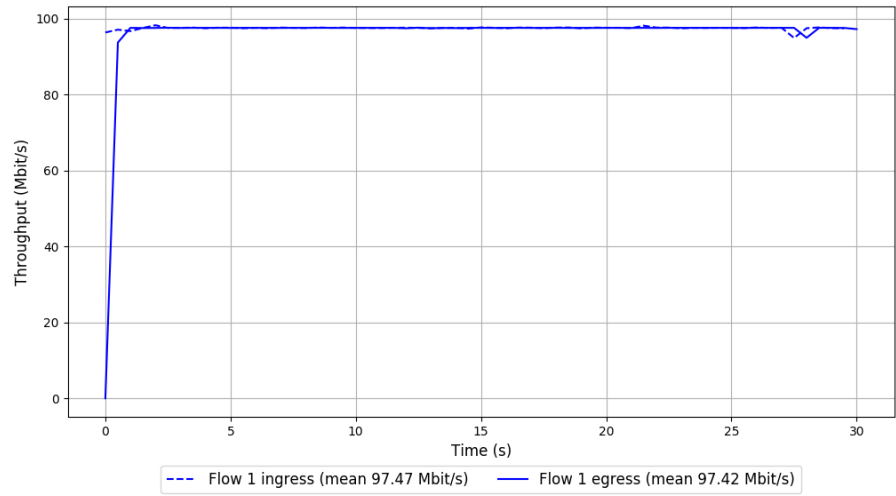
-- Flow 1:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 9.764 ms

Loss rate: 0.05%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-01-21 22:27:19

End at: 2019-01-21 22:27:49

Local clock offset: -4.878 ms

Remote clock offset: 1.083 ms

# Below is generated by plot.py at 2019-01-21 23:05:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 8.925 ms

Loss rate: 0.05%

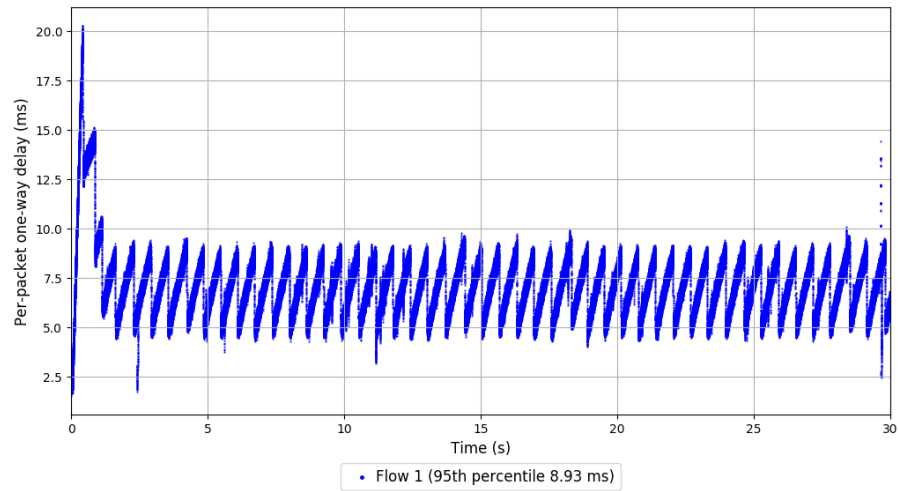
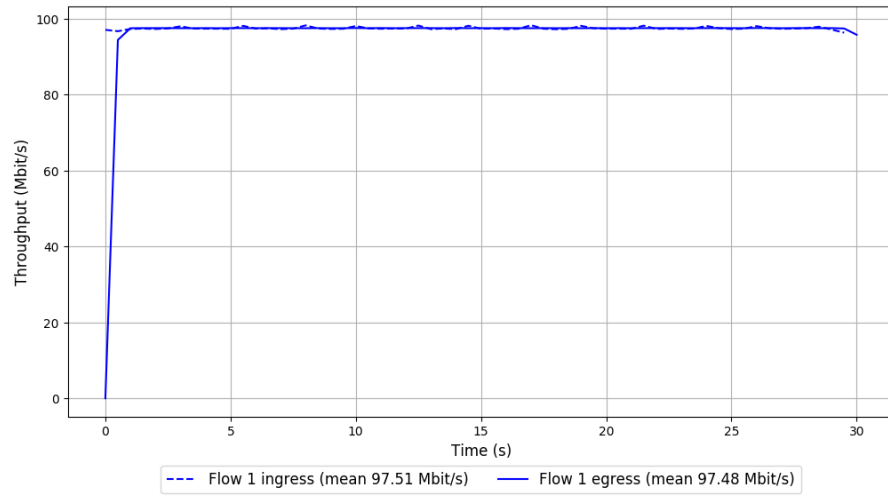
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 8.925 ms

Loss rate: 0.05%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-01-21 22:51:03

End at: 2019-01-21 22:51:33

Local clock offset: -4.708 ms

Remote clock offset: 1.07 ms

# Below is generated by plot.py at 2019-01-21 23:05:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 9.797 ms

Loss rate: 0.05%

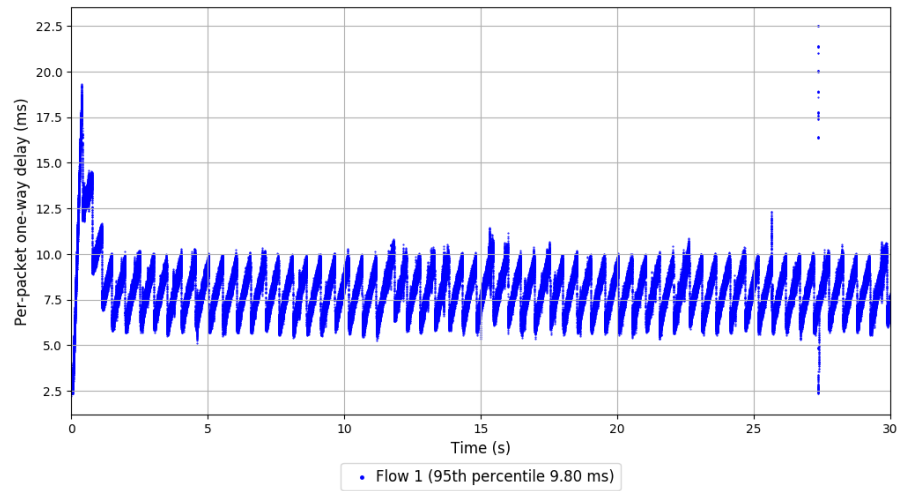
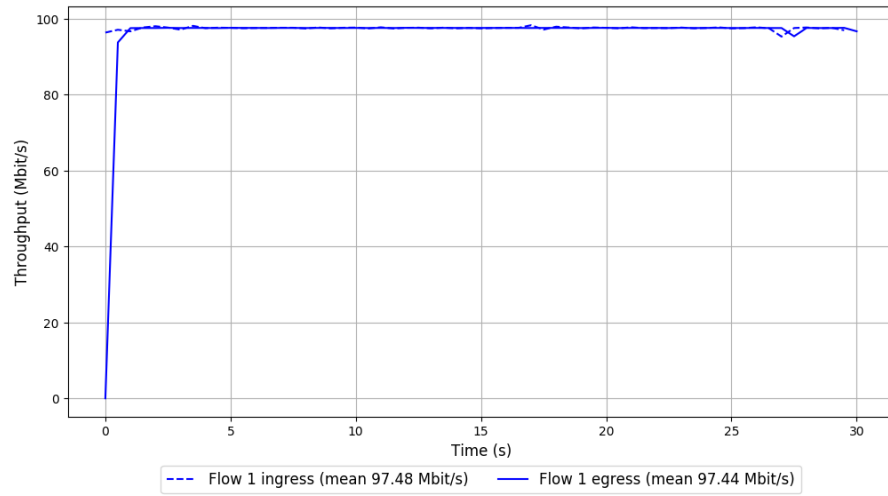
-- Flow 1:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 9.797 ms

Loss rate: 0.05%

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



Run 1: Statistics of FillP

Start at: 2019-01-21 21:12:48

End at: 2019-01-21 21:13:18

Local clock offset: -5.573 ms

Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2019-01-21 23:05:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 11.143 ms

Loss rate: 0.04%

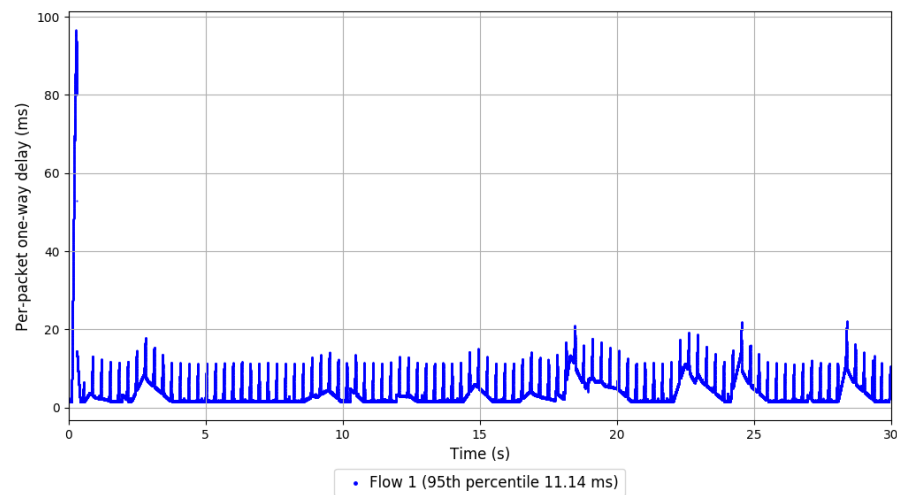
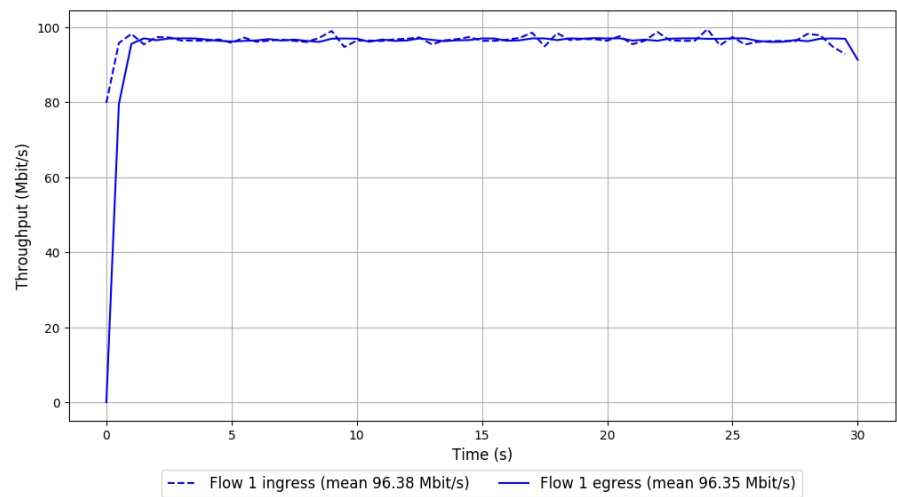
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 11.143 ms

Loss rate: 0.04%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-01-21 21:36:30

End at: 2019-01-21 21:37:00

Local clock offset: -4.961 ms

Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-01-21 23:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 11.773 ms

Loss rate: 0.06%

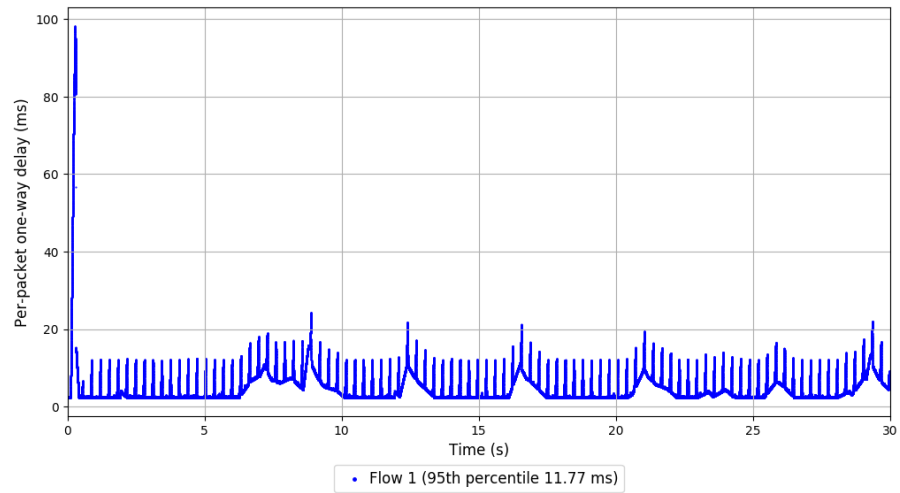
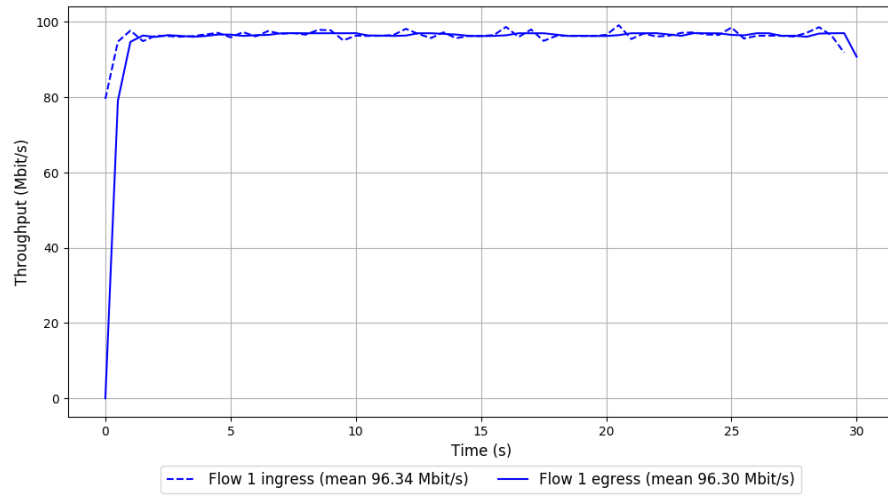
-- Flow 1:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 11.773 ms

Loss rate: 0.06%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-21 22:00:11

End at: 2019-01-21 22:00:41

Local clock offset: -3.549 ms

Remote clock offset: 0.939 ms

# Below is generated by plot.py at 2019-01-21 23:05:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 11.009 ms

Loss rate: 0.03%

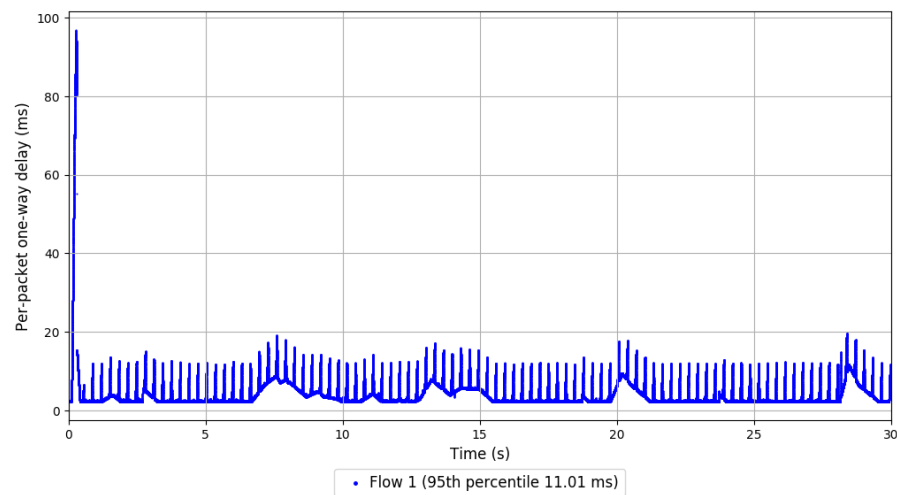
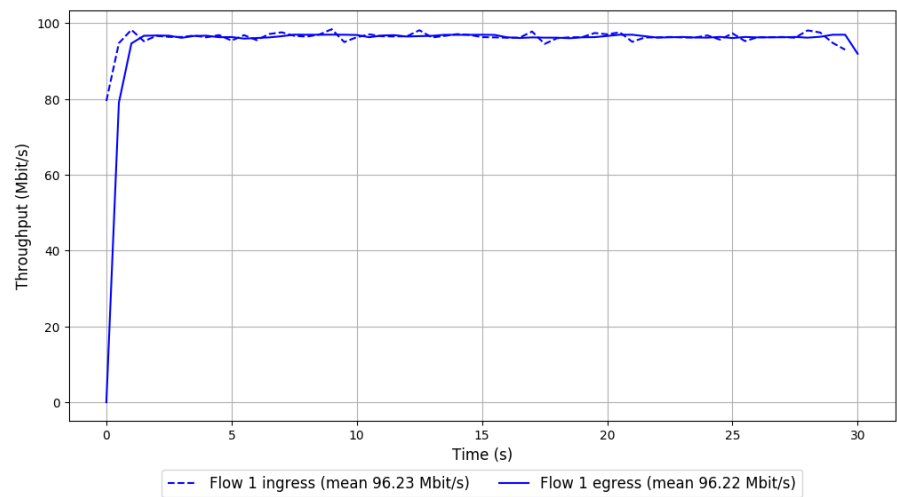
-- Flow 1:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 11.009 ms

Loss rate: 0.03%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-21 22:23:53

End at: 2019-01-21 22:24:23

Local clock offset: -4.716 ms

Remote clock offset: 1.024 ms

# Below is generated by plot.py at 2019-01-21 23:05:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 13.142 ms

Loss rate: 0.07%

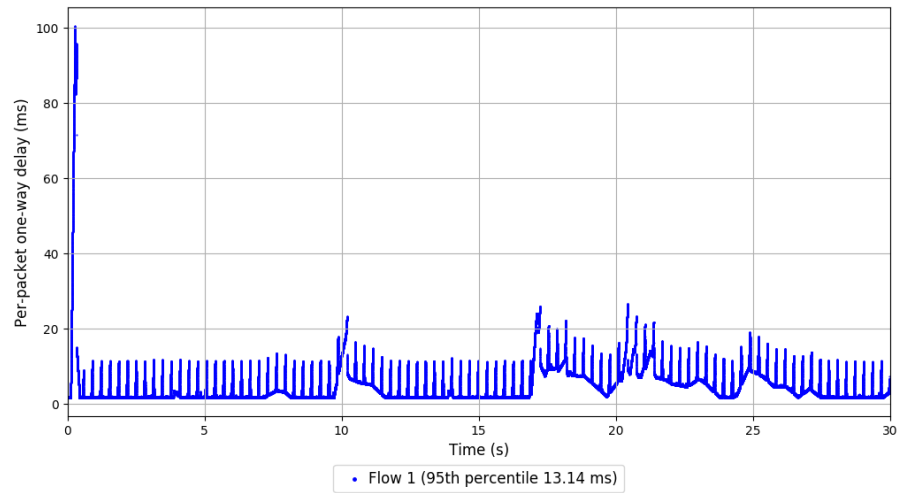
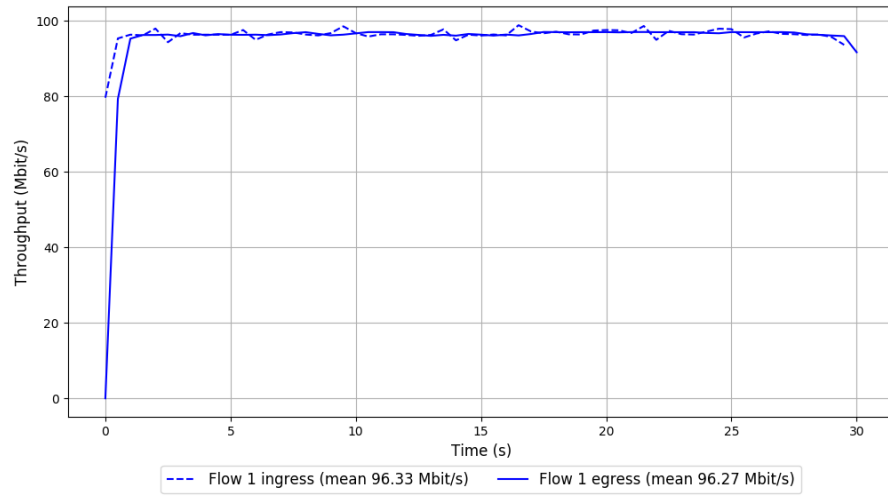
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 13.142 ms

Loss rate: 0.07%

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



Run 5: Statistics of FillP

Start at: 2019-01-21 22:47:37

End at: 2019-01-21 22:48:07

Local clock offset: -4.608 ms

Remote clock offset: 1.008 ms

# Below is generated by plot.py at 2019-01-21 23:06:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 12.650 ms

Loss rate: 0.07%

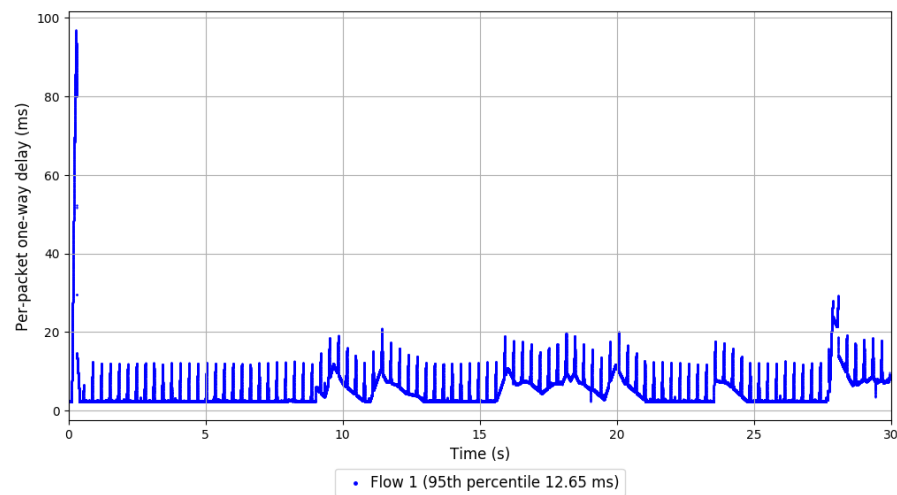
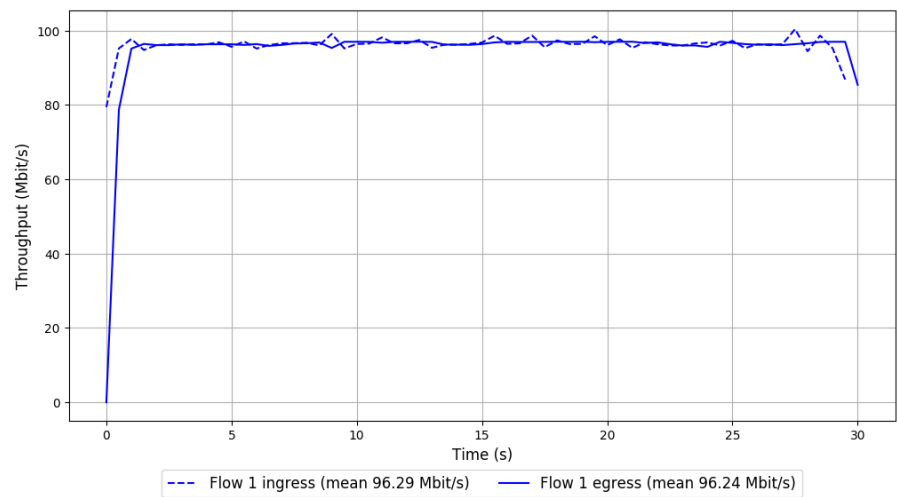
-- Flow 1:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 12.650 ms

Loss rate: 0.07%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-21 21:02:37

End at: 2019-01-21 21:03:07

Local clock offset: -4.302 ms

Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2019-01-21 23:06:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 8.054 ms

Loss rate: 0.03%

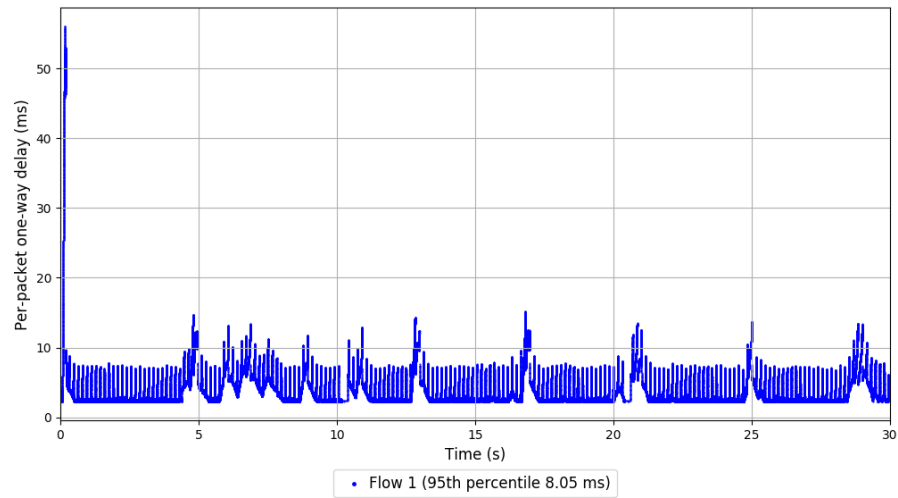
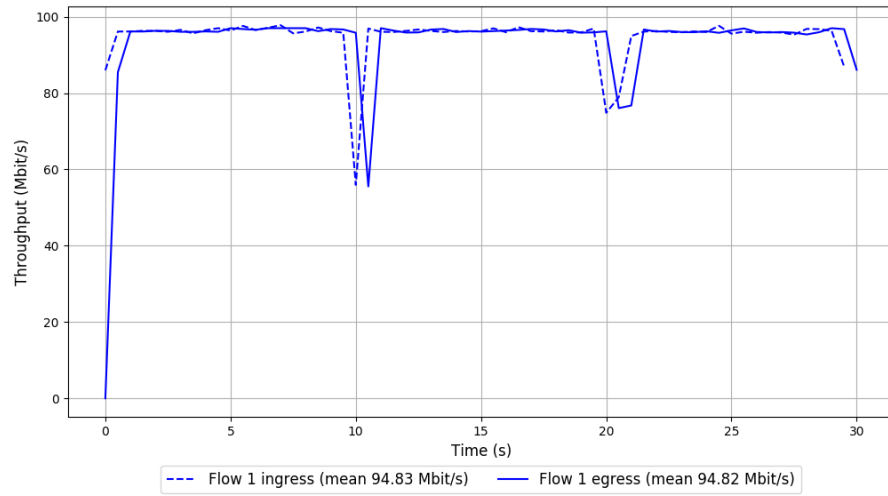
-- Flow 1:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 8.054 ms

Loss rate: 0.03%

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

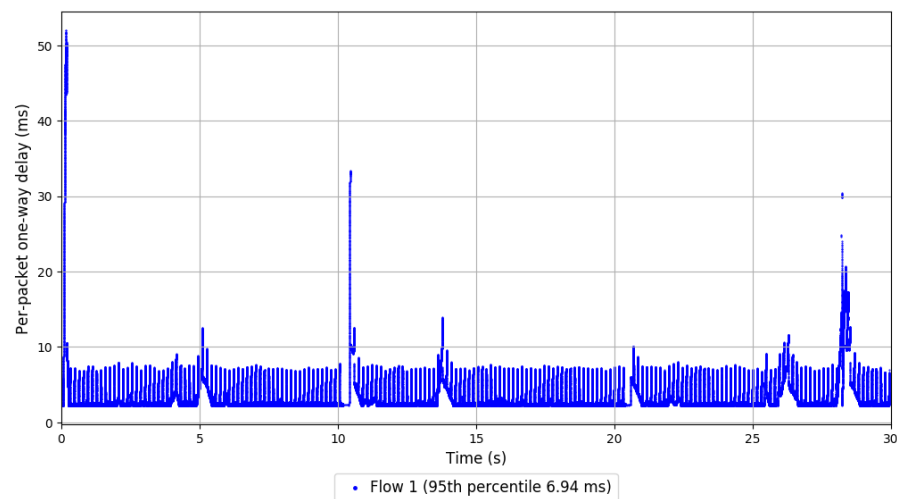
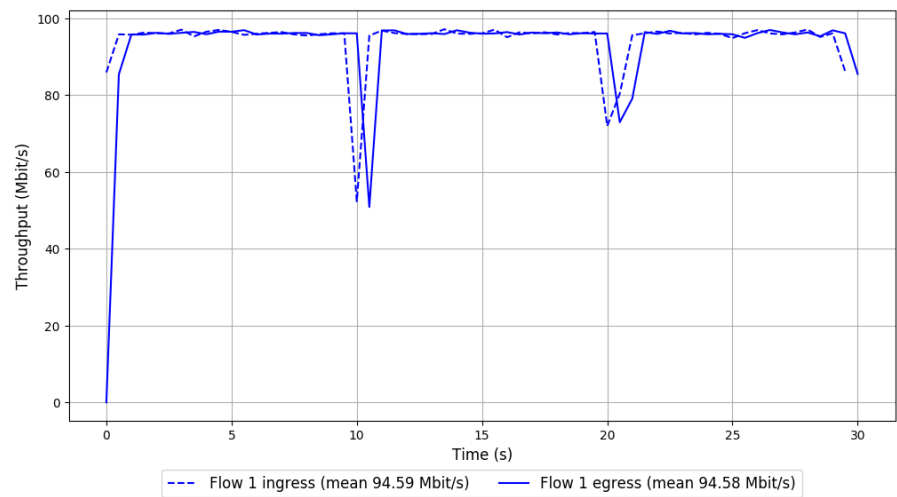


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-21 21:26:18  
End at: 2019-01-21 21:26:48  
Local clock offset: -4.777 ms  
Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-01-21 23:06:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 6.938 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 6.938 ms  
Loss rate: 0.02%

Run 2: Report of FillP-Sheep — Data Link

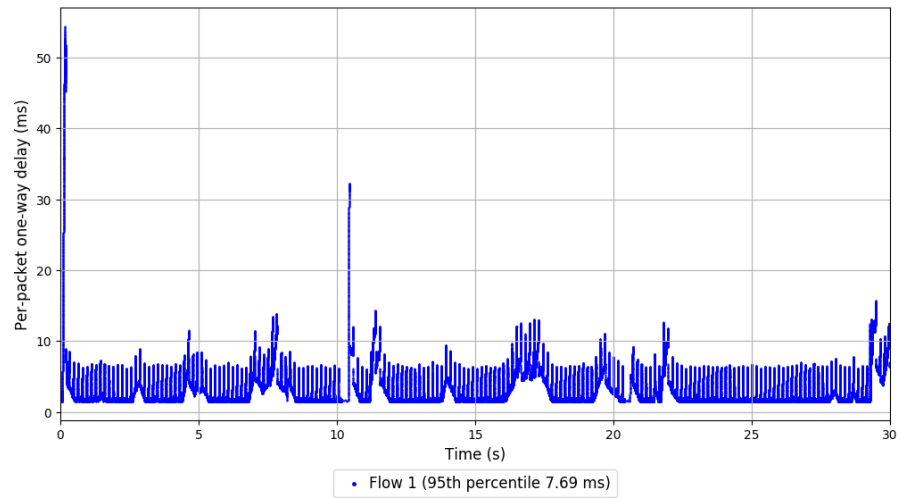
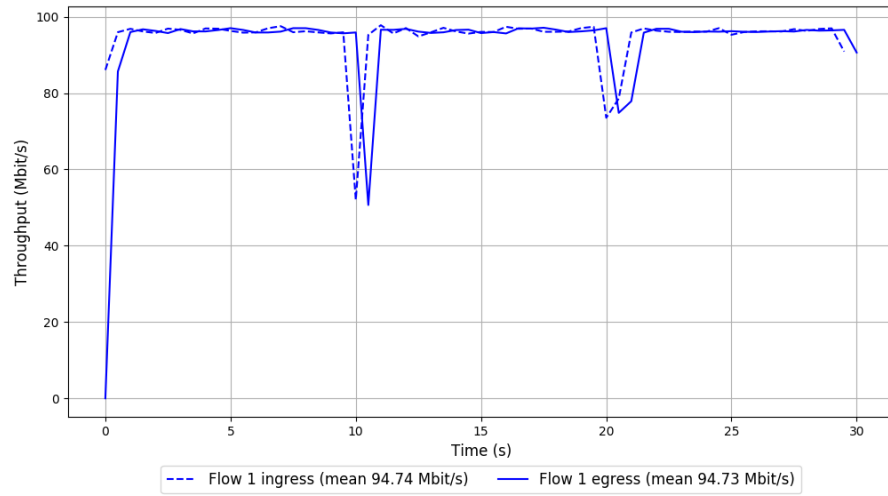


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-21 21:50:00  
End at: 2019-01-21 21:50:30  
Local clock offset: -5.189 ms  
Remote clock offset: 0.755 ms

# Below is generated by plot.py at 2019-01-21 23:06:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.73 Mbit/s  
95th percentile per-packet one-way delay: 7.686 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 94.73 Mbit/s  
95th percentile per-packet one-way delay: 7.686 ms  
Loss rate: 0.03%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-21 22:13:42

End at: 2019-01-21 22:14:12

Local clock offset: -3.233 ms

Remote clock offset: 1.016 ms

# Below is generated by plot.py at 2019-01-21 23:06:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 7.998 ms

Loss rate: 0.03%

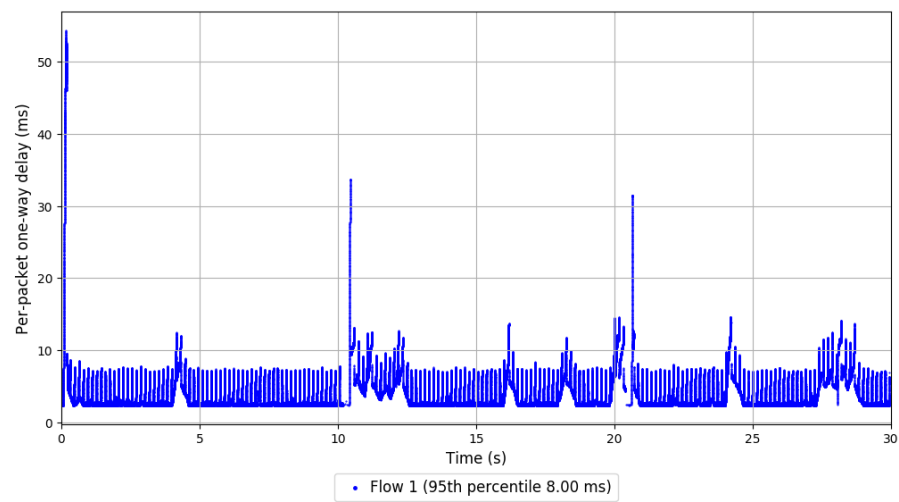
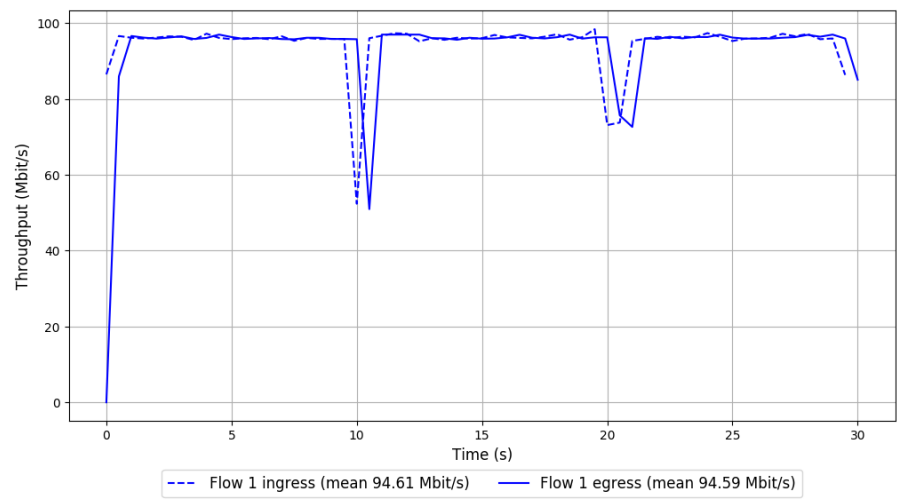
-- Flow 1:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 7.998 ms

Loss rate: 0.03%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-21 22:37:25

End at: 2019-01-21 22:37:55

Local clock offset: -4.425 ms

Remote clock offset: 1.064 ms

# Below is generated by plot.py at 2019-01-21 23:07:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 8.244 ms

Loss rate: 0.02%

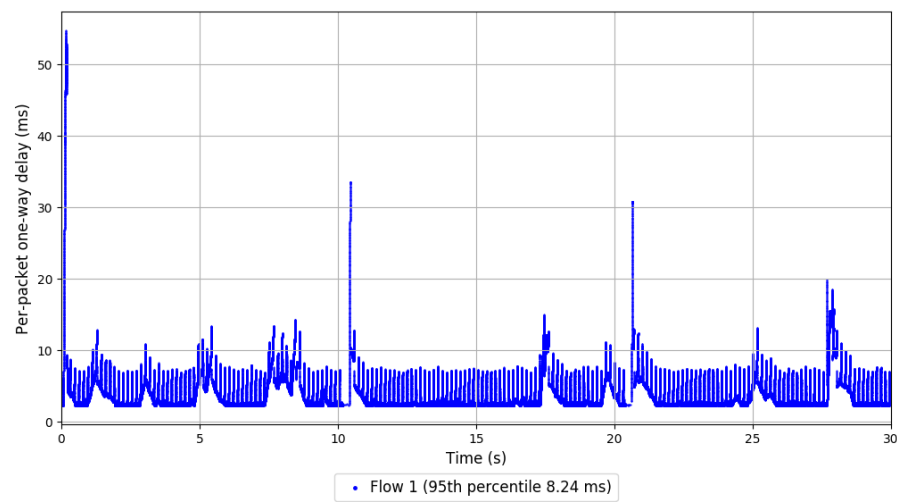
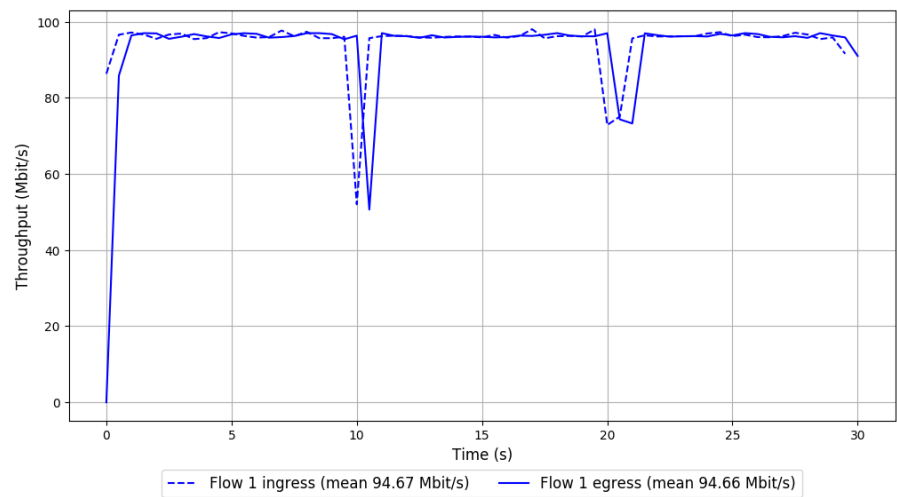
-- Flow 1:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 8.244 ms

Loss rate: 0.02%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-01-21 21:19:34

End at: 2019-01-21 21:20:04

Local clock offset: -5.614 ms

Remote clock offset: 0.516 ms

# Below is generated by plot.py at 2019-01-21 23:07:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 4.304 ms

Loss rate: 0.02%

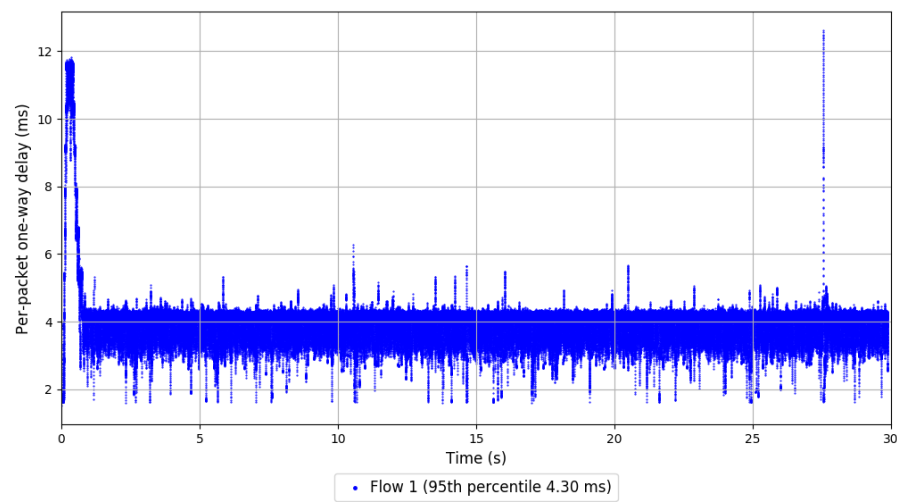
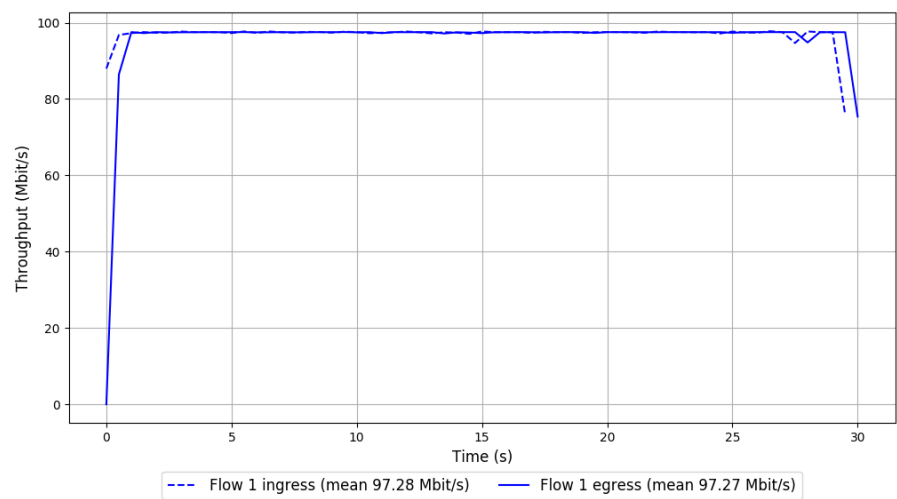
-- Flow 1:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 4.304 ms

Loss rate: 0.02%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-21 21:43:19

End at: 2019-01-21 21:43:49

Local clock offset: -5.886 ms

Remote clock offset: 0.82 ms

# Below is generated by plot.py at 2019-01-21 23:07:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 4.346 ms

Loss rate: 0.02%

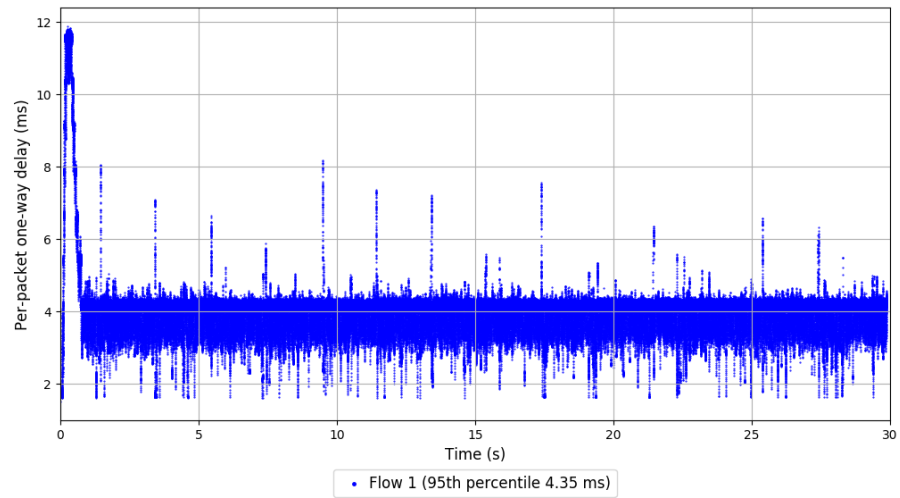
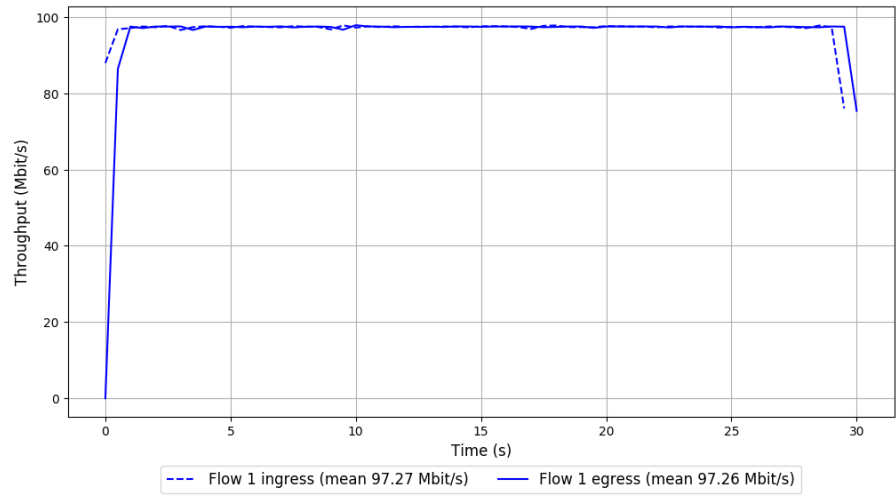
-- Flow 1:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 4.346 ms

Loss rate: 0.02%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-21 22:06:57

End at: 2019-01-21 22:07:27

Local clock offset: -3.356 ms

Remote clock offset: 0.977 ms

# Below is generated by plot.py at 2019-01-21 23:07:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 5.360 ms

Loss rate: 0.02%

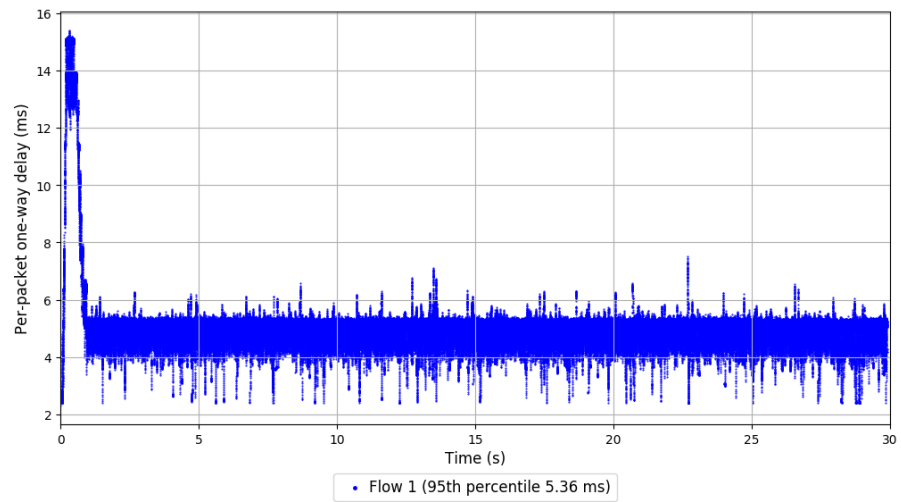
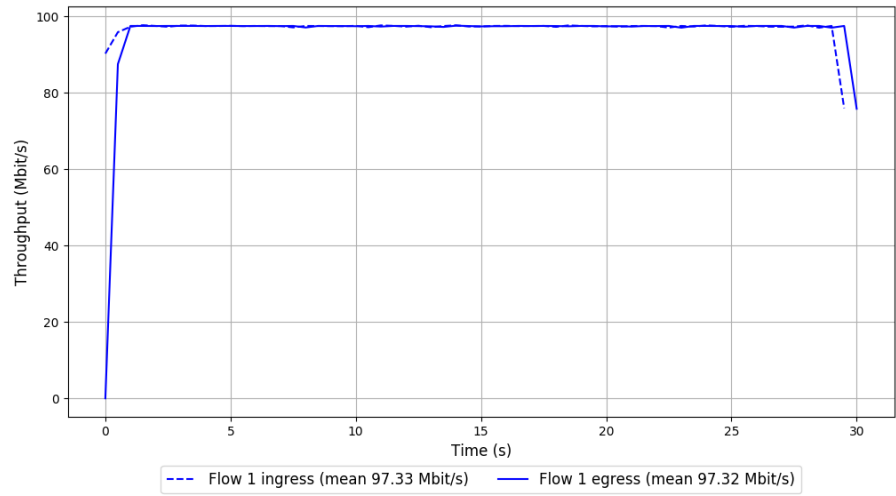
-- Flow 1:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 5.360 ms

Loss rate: 0.02%

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





Run 4: Statistics of Indigo

Start at: 2019-01-21 22:30:42

End at: 2019-01-21 22:31:12

Local clock offset: -4.254 ms

Remote clock offset: 1.036 ms

# Below is generated by plot.py at 2019-01-21 23:07:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 5.143 ms

Loss rate: 0.02%

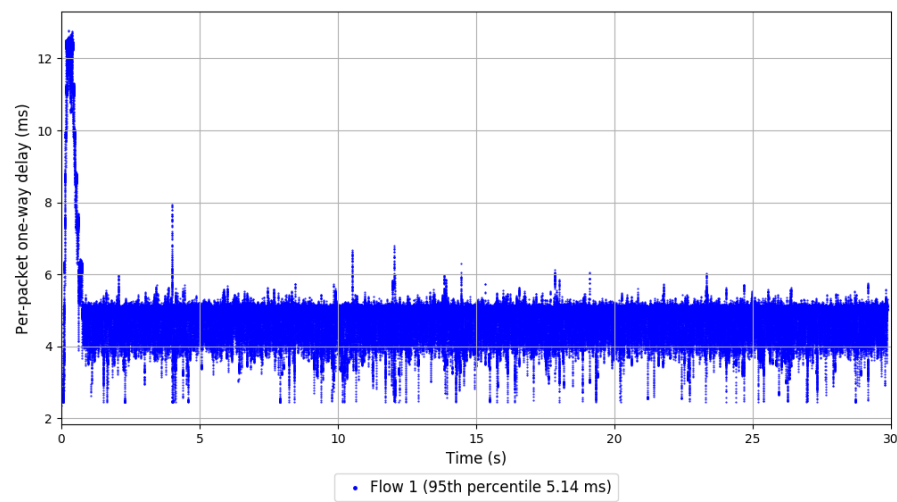
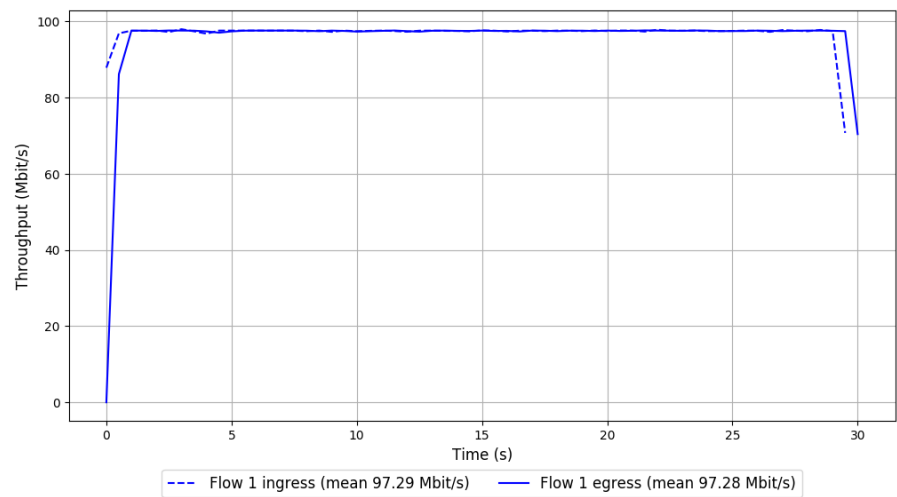
-- Flow 1:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 5.143 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-21 22:54:24

End at: 2019-01-21 22:54:54

Local clock offset: -5.521 ms

Remote clock offset: 0.973 ms

# Below is generated by plot.py at 2019-01-21 23:07:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.370 ms

Loss rate: 0.02%

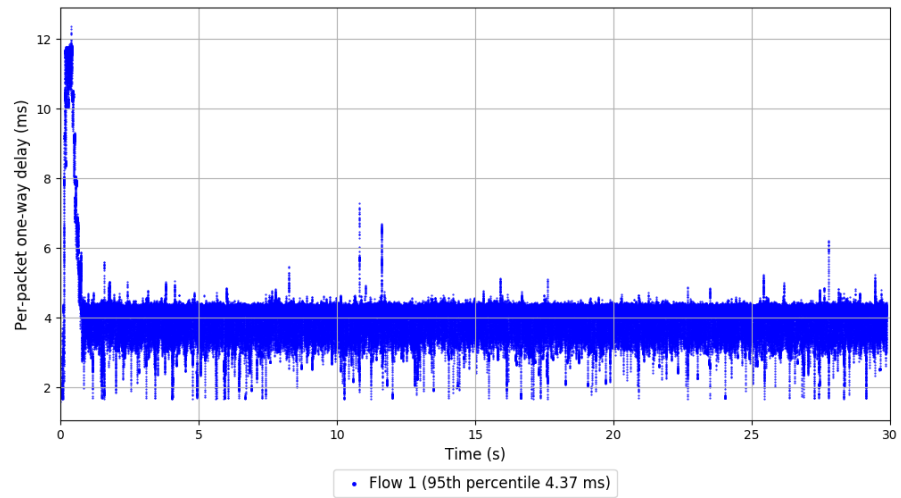
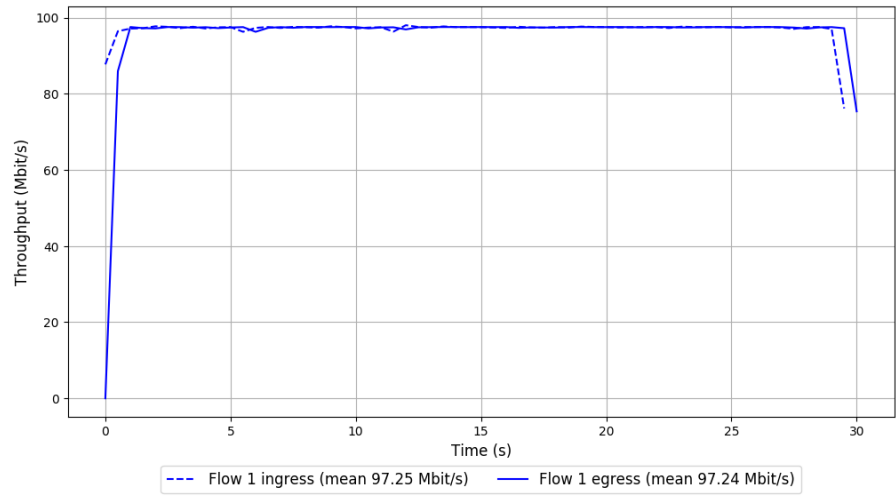
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.370 ms

Loss rate: 0.02%

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



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-21 21:22:56

End at: 2019-01-21 21:23:26

Local clock offset: -4.764 ms

Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-01-21 23:07:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.61 Mbit/s

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

Loss rate: 0.02%

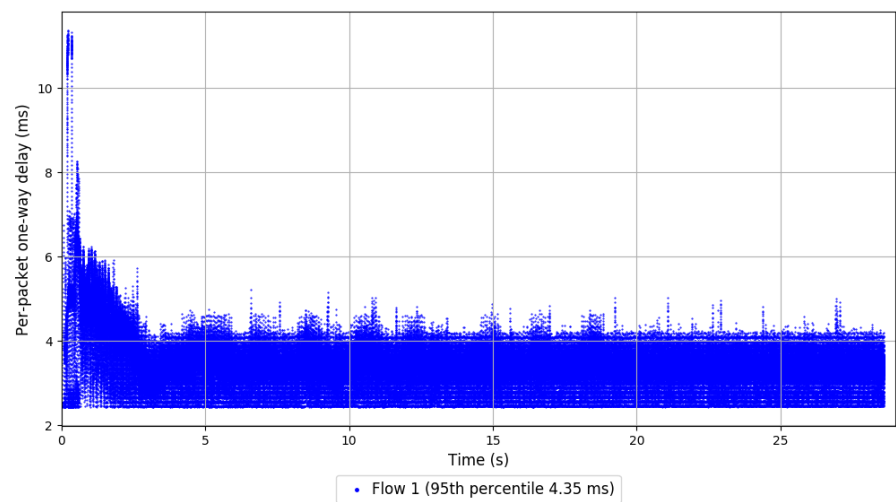
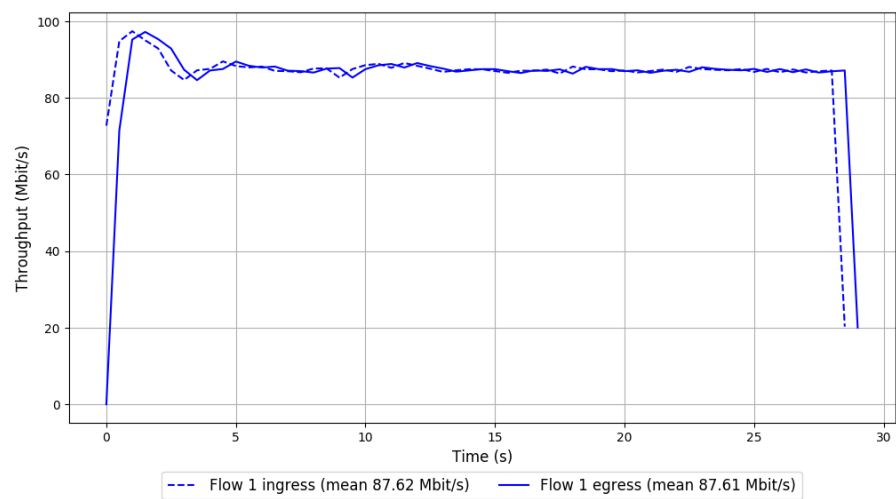
-- Flow 1:

Average throughput: 87.61 Mbit/s

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

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-21 21:46:39

End at: 2019-01-21 21:47:09

Local clock offset: -5.05 ms

Remote clock offset: 0.764 ms

# Below is generated by plot.py at 2019-01-21 23:07:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.00 Mbit/s

95th percentile per-packet one-way delay: 3.637 ms

Loss rate: 0.02%

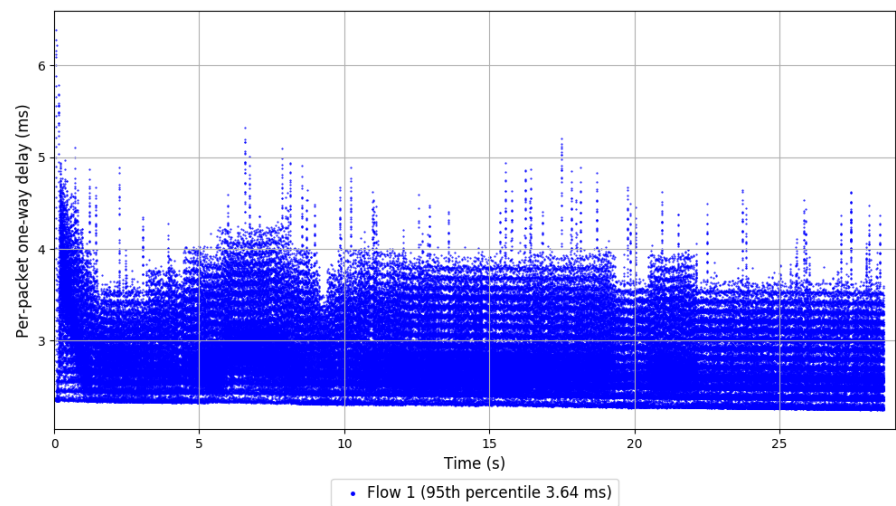
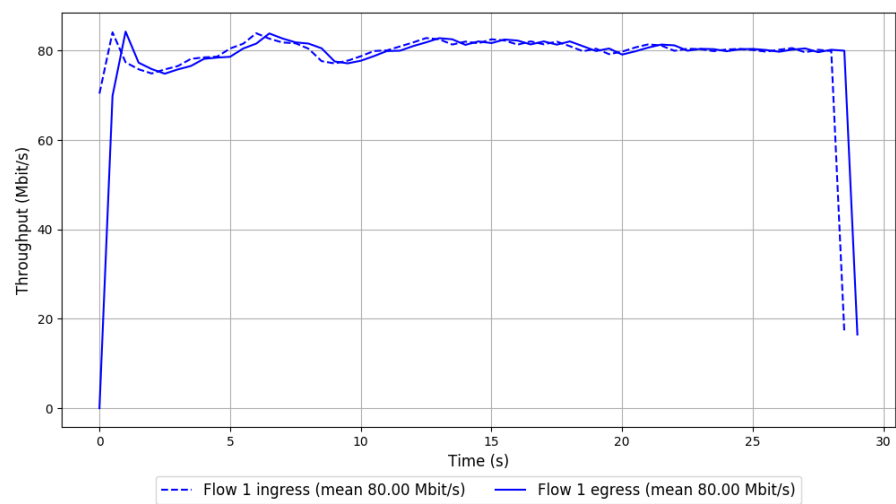
-- Flow 1:

Average throughput: 80.00 Mbit/s

95th percentile per-packet one-way delay: 3.637 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-21 22:10:20

End at: 2019-01-21 22:10:50

Local clock offset: -3.293 ms

Remote clock offset: 1.053 ms

# Below is generated by plot.py at 2019-01-21 23:07:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 4.417 ms

Loss rate: 0.02%

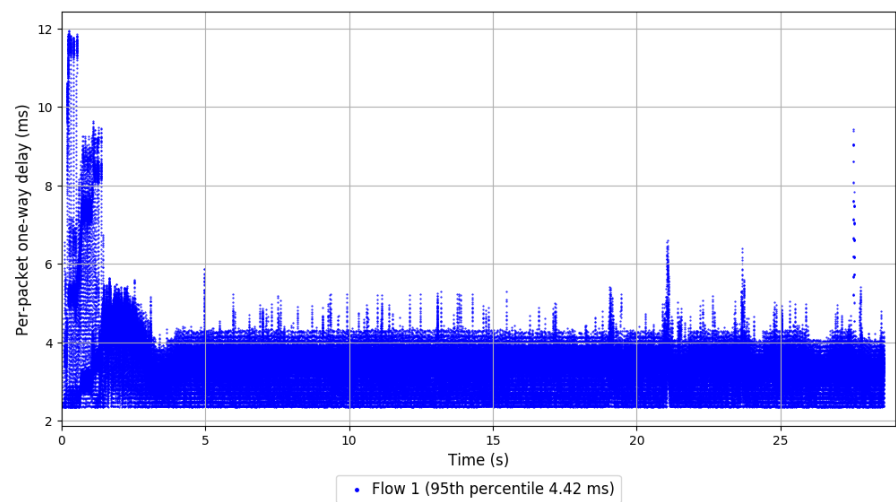
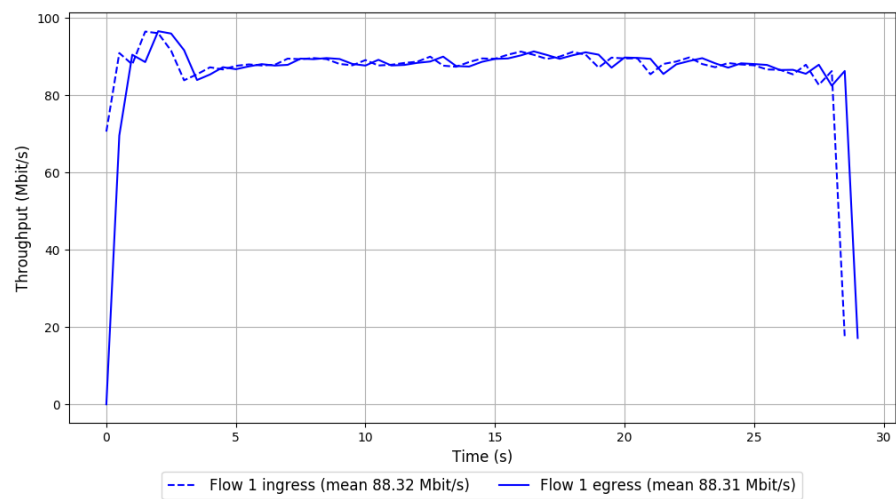
-- Flow 1:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 4.417 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-21 22:34:05

End at: 2019-01-21 22:34:35

Local clock offset: -4.346 ms

Remote clock offset: 1.043 ms

# Below is generated by plot.py at 2019-01-21 23:07:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 3.670 ms

Loss rate: 0.02%

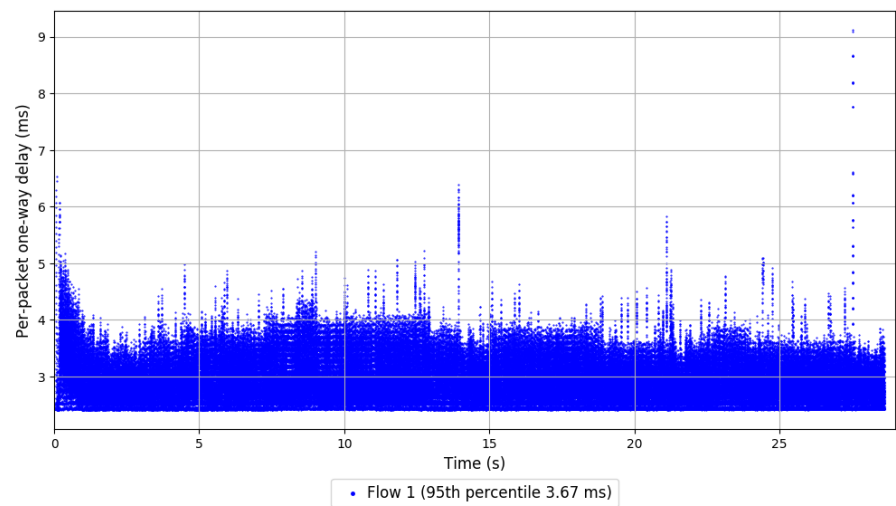
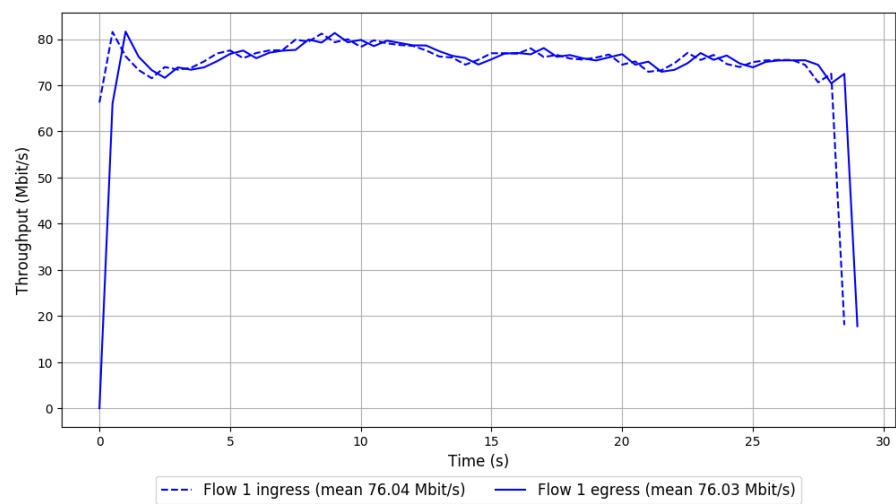
-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 3.670 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-21 22:57:45

End at: 2019-01-21 22:58:15

Local clock offset: -4.81 ms

Remote clock offset: 0.881 ms

# Below is generated by plot.py at 2019-01-21 23:08:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.30 Mbit/s

95th percentile per-packet one-way delay: 3.846 ms

Loss rate: 0.02%

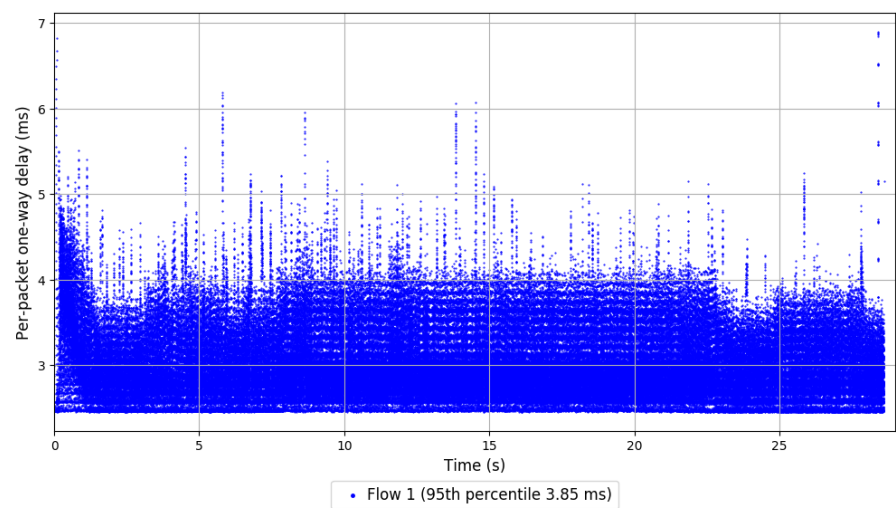
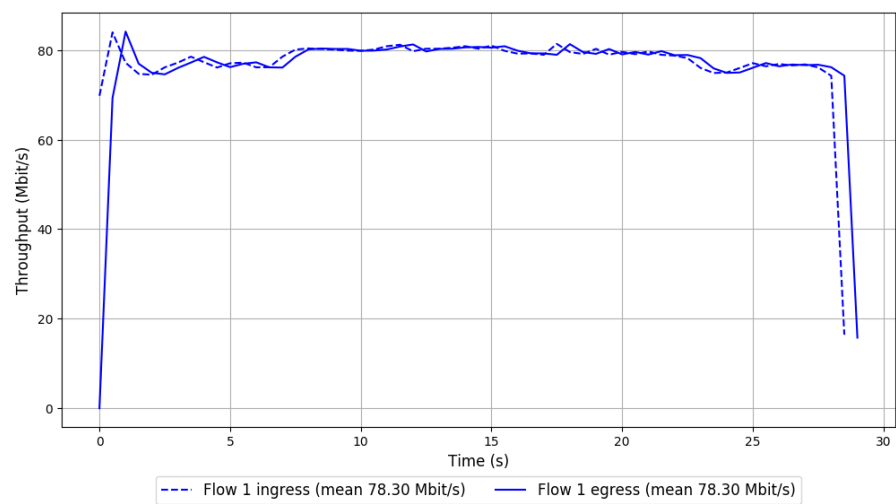
-- Flow 1:

Average throughput: 78.30 Mbit/s

95th percentile per-packet one-way delay: 3.846 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-21 21:24:04

End at: 2019-01-21 21:24:34

Local clock offset: -4.76 ms

Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-01-21 23:08:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.48 Mbit/s

95th percentile per-packet one-way delay: 2.931 ms

Loss rate: 0.01%

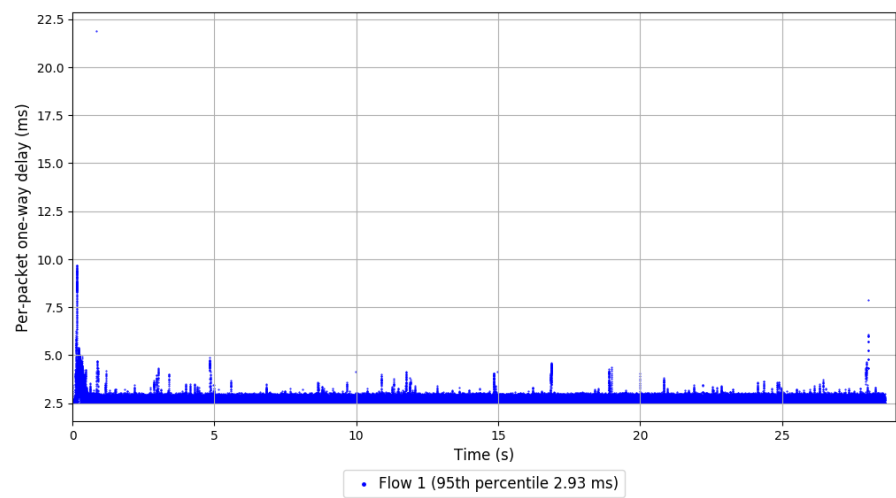
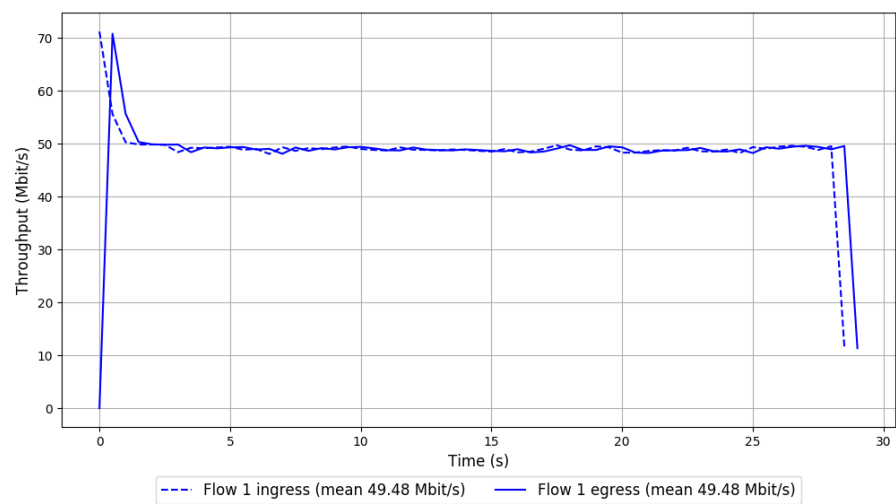
-- Flow 1:

Average throughput: 49.48 Mbit/s

95th percentile per-packet one-way delay: 2.931 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-21 21:47:46

End at: 2019-01-21 21:48:16

Local clock offset: -4.856 ms

Remote clock offset: 0.774 ms

# Below is generated by plot.py at 2019-01-21 23:08:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.92 Mbit/s

95th percentile per-packet one-way delay: 4.495 ms

Loss rate: 0.02%

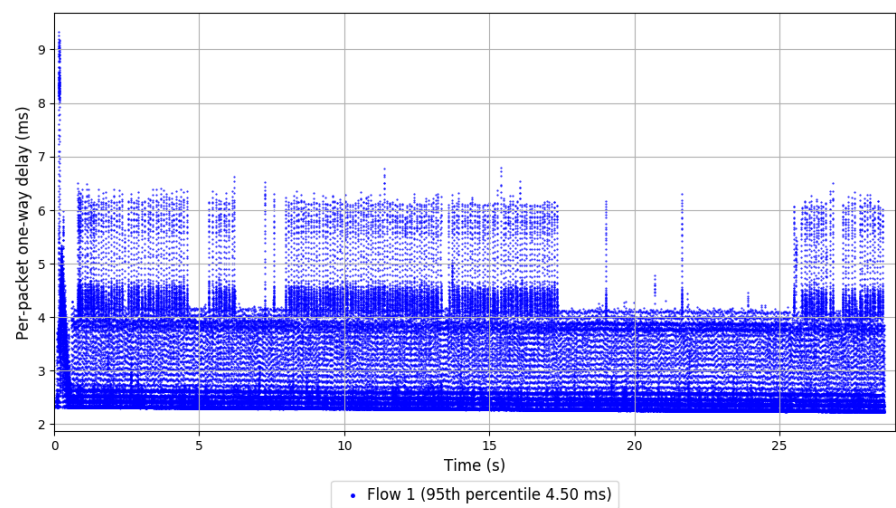
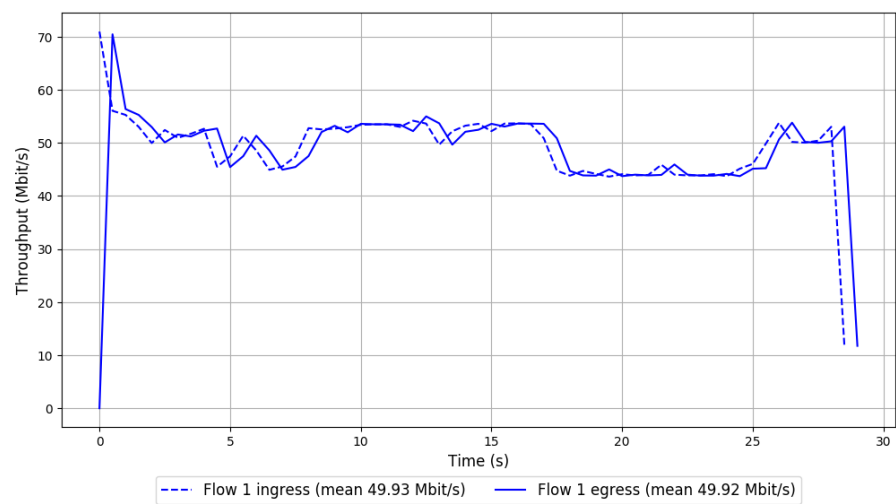
-- Flow 1:

Average throughput: 49.92 Mbit/s

95th percentile per-packet one-way delay: 4.495 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-21 22:11:27

End at: 2019-01-21 22:11:57

Local clock offset: -3.277 ms

Remote clock offset: 1.069 ms

# Below is generated by plot.py at 2019-01-21 23:08:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.14 Mbit/s

95th percentile per-packet one-way delay: 2.789 ms

Loss rate: 0.02%

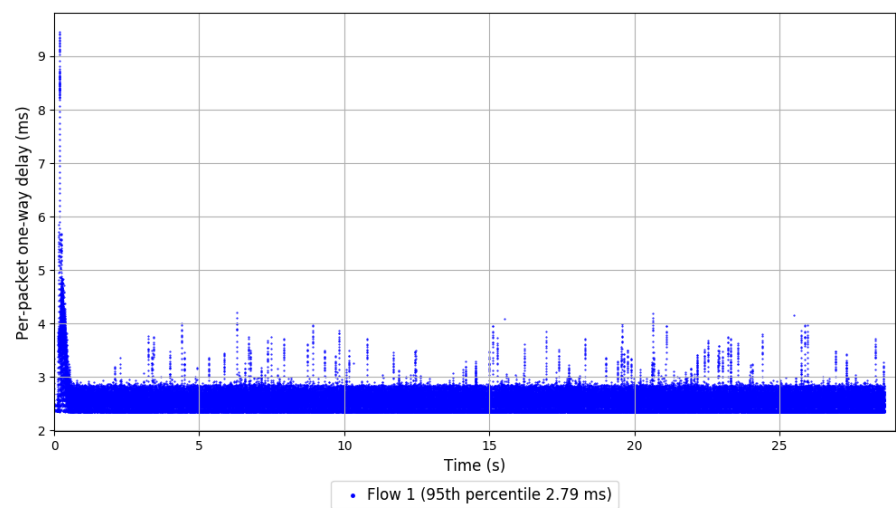
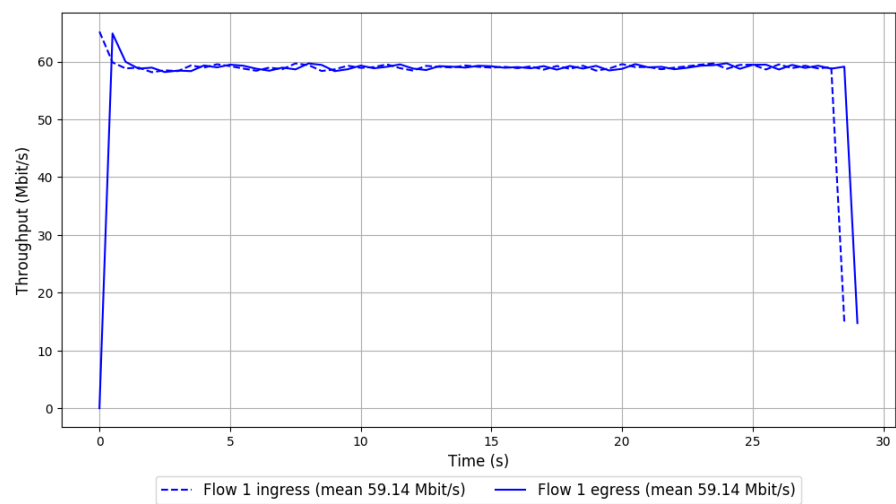
-- Flow 1:

Average throughput: 59.14 Mbit/s

95th percentile per-packet one-way delay: 2.789 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-21 22:35:12

End at: 2019-01-21 22:35:42

Local clock offset: -5.13 ms

Remote clock offset: 0.917 ms

# Below is generated by plot.py at 2019-01-21 23:08:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 3.551 ms

Loss rate: 0.01%

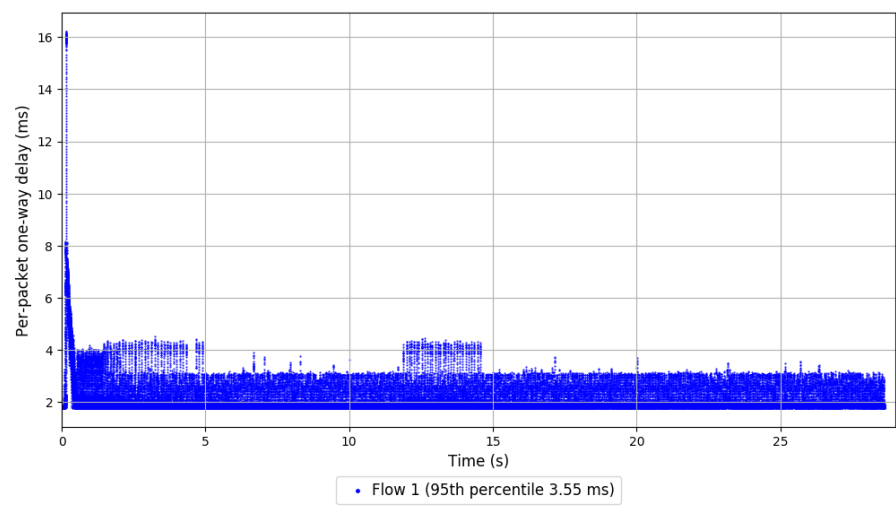
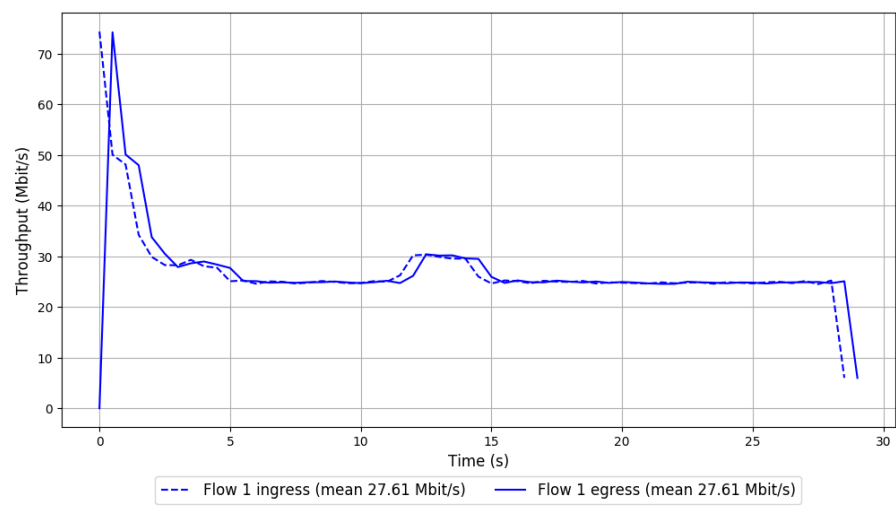
-- Flow 1:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 3.551 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-21 22:58:52

End at: 2019-01-21 22:59:22

Local clock offset: -4.843 ms

Remote clock offset: 0.867 ms

# Below is generated by plot.py at 2019-01-21 23:08:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.78 Mbit/s

95th percentile per-packet one-way delay: 4.195 ms

Loss rate: 0.01%

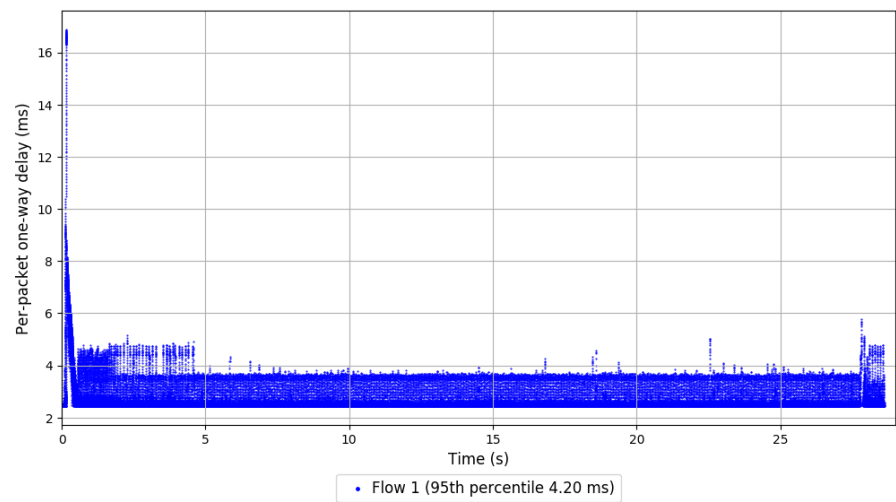
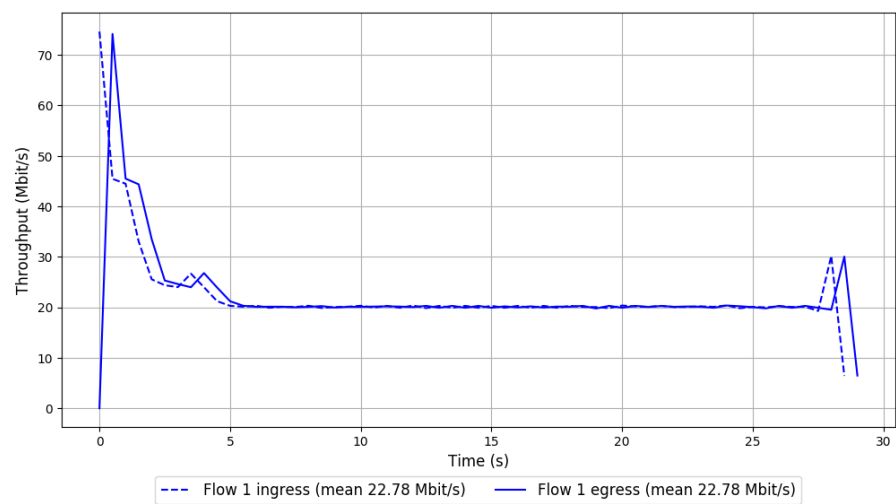
-- Flow 1:

Average throughput: 22.78 Mbit/s

95th percentile per-packet one-way delay: 4.195 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-21 21:11:42

End at: 2019-01-21 21:12:12

Local clock offset: -4.702 ms

Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2019-01-21 23:08:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.16 Mbit/s

95th percentile per-packet one-way delay: 3.107 ms

Loss rate: 0.02%

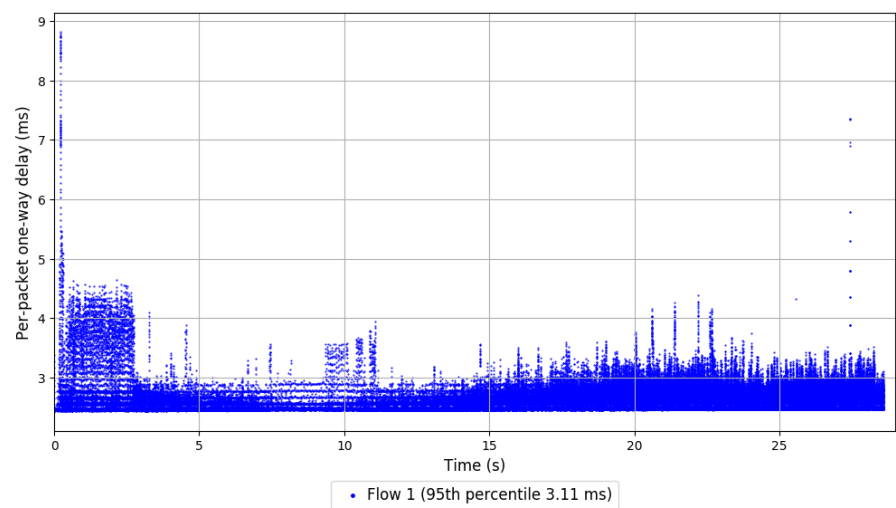
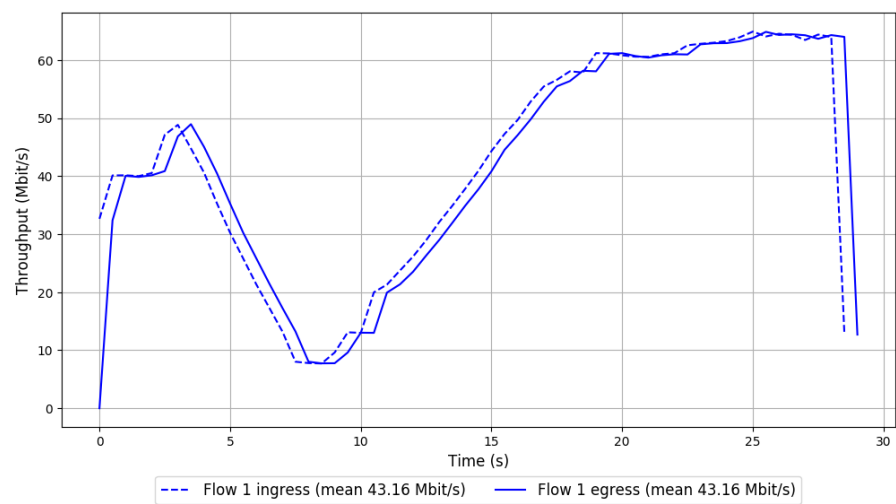
-- Flow 1:

Average throughput: 43.16 Mbit/s

95th percentile per-packet one-way delay: 3.107 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-21 21:35:23

End at: 2019-01-21 21:35:53

Local clock offset: -4.991 ms

Remote clock offset: 0.757 ms

# Below is generated by plot.py at 2019-01-21 23:08:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 3.030 ms

Loss rate: 0.02%

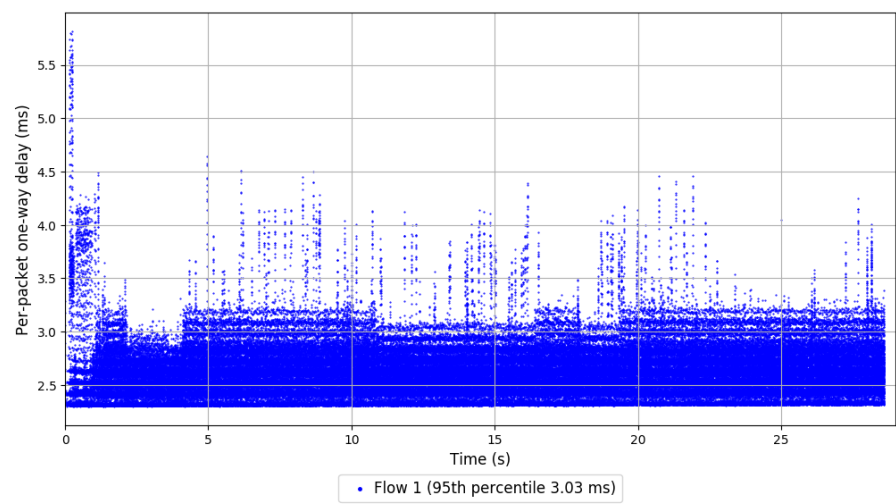
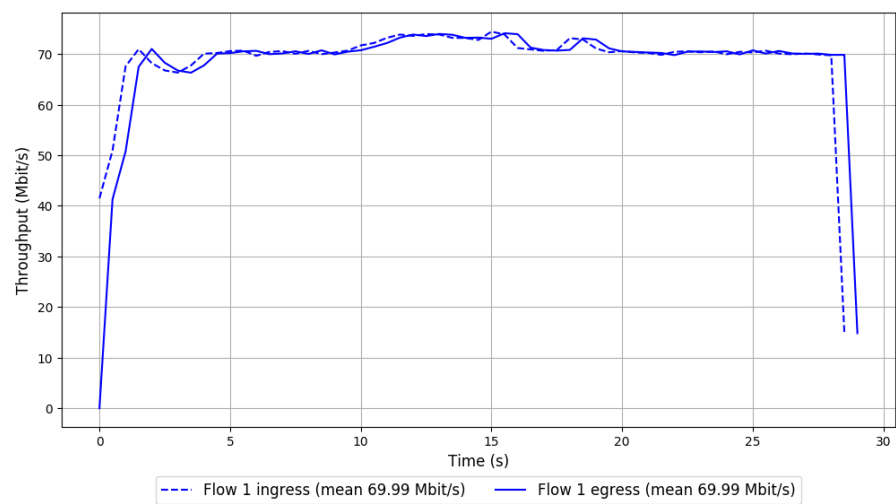
-- Flow 1:

Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 3.030 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-21 21:59:05

End at: 2019-01-21 21:59:35

Local clock offset: -3.581 ms

Remote clock offset: 0.811 ms

# Below is generated by plot.py at 2019-01-21 23:08:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.92 Mbit/s

95th percentile per-packet one-way delay: 3.151 ms

Loss rate: 0.02%

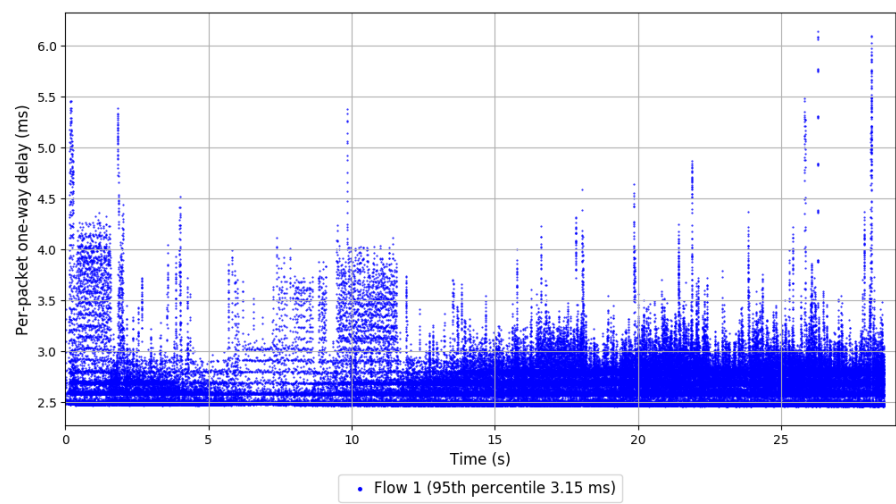
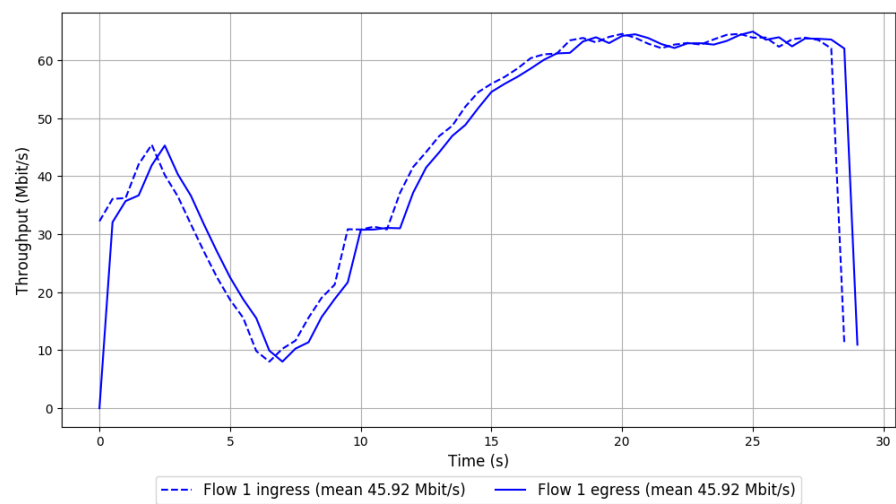
-- Flow 1:

Average throughput: 45.92 Mbit/s

95th percentile per-packet one-way delay: 3.151 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-21 22:22:46

End at: 2019-01-21 22:23:16

Local clock offset: -3.847 ms

Remote clock offset: 1.053 ms

# Below is generated by plot.py at 2019-01-21 23:08:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 3.026 ms

Loss rate: 0.02%

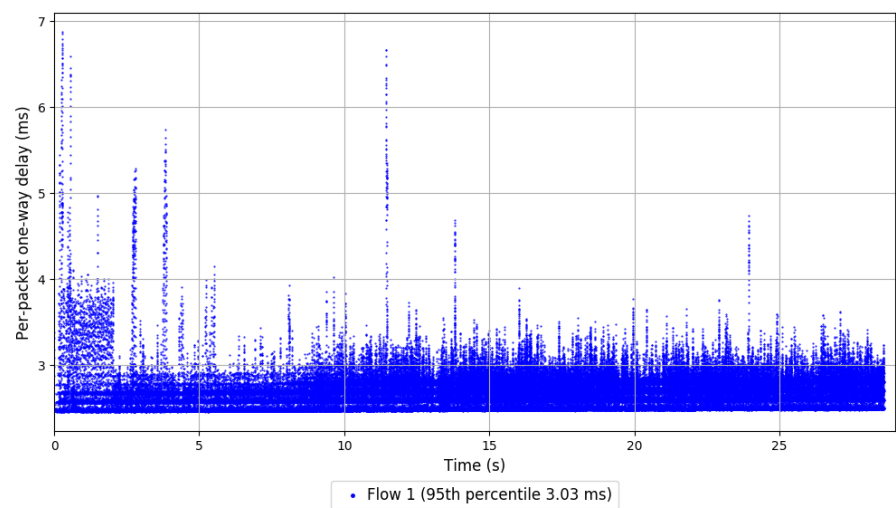
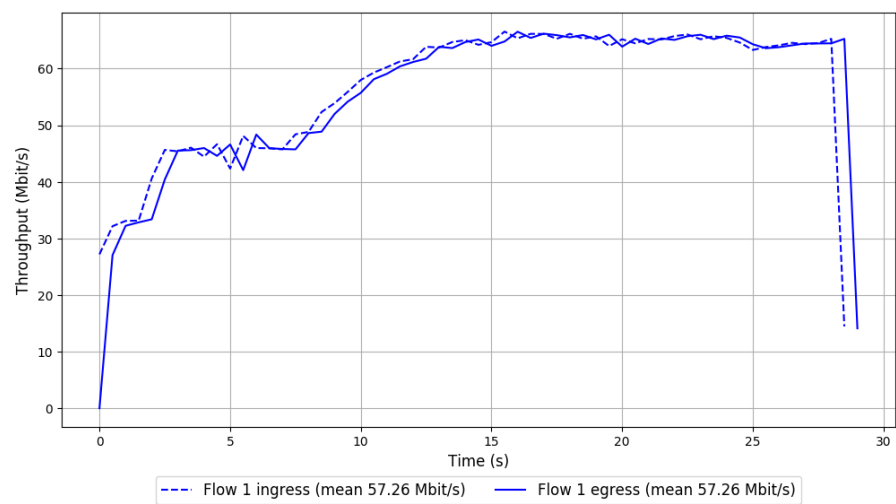
-- Flow 1:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 3.026 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-21 22:46:30

End at: 2019-01-21 22:47:00

Local clock offset: -4.604 ms

Remote clock offset: 0.945 ms

# Below is generated by plot.py at 2019-01-21 23:08:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 3.032 ms

Loss rate: 0.02%

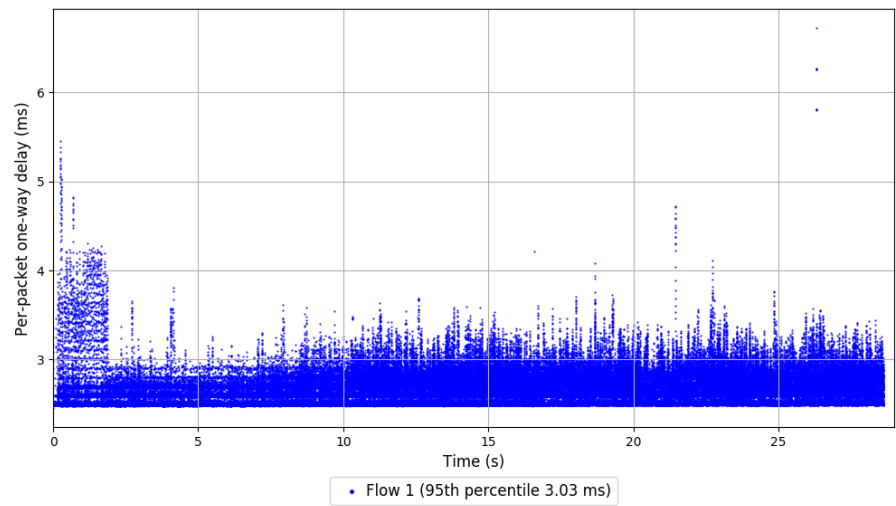
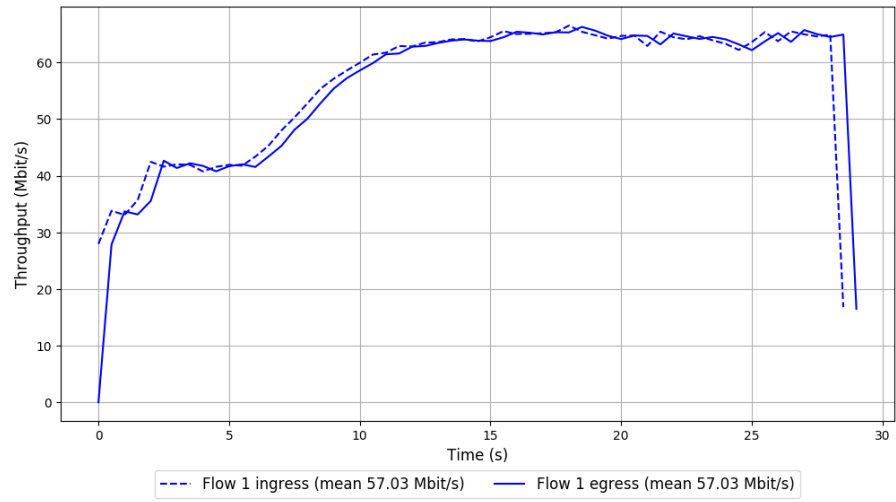
-- Flow 1:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 3.032 ms

Loss rate: 0.02%

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



Run 1: Statistics of Indigo-MusesT

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

End at: 2019-01-21 21:09:54

Local clock offset: -5.345 ms

Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2019-01-21 23:08:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 2.743 ms

Loss rate: 0.01%

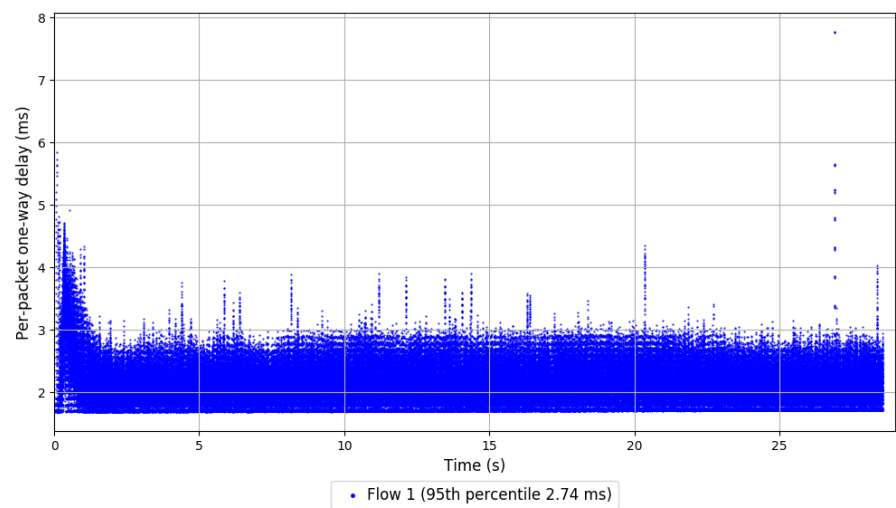
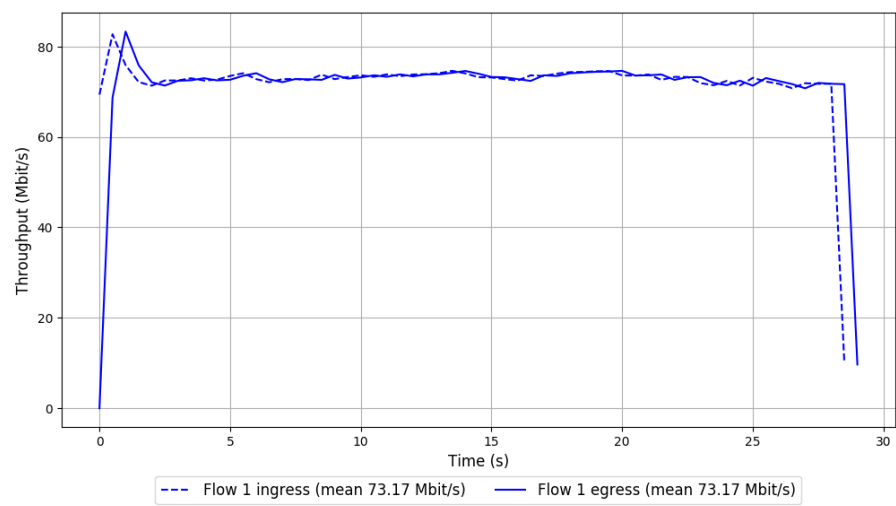
-- Flow 1:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 2.743 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-21 21:33:05

End at: 2019-01-21 21:33:35

Local clock offset: -5.712 ms

Remote clock offset: 0.674 ms

# Below is generated by plot.py at 2019-01-21 23:09:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.65 Mbit/s

95th percentile per-packet one-way delay: 3.021 ms

Loss rate: 0.02%

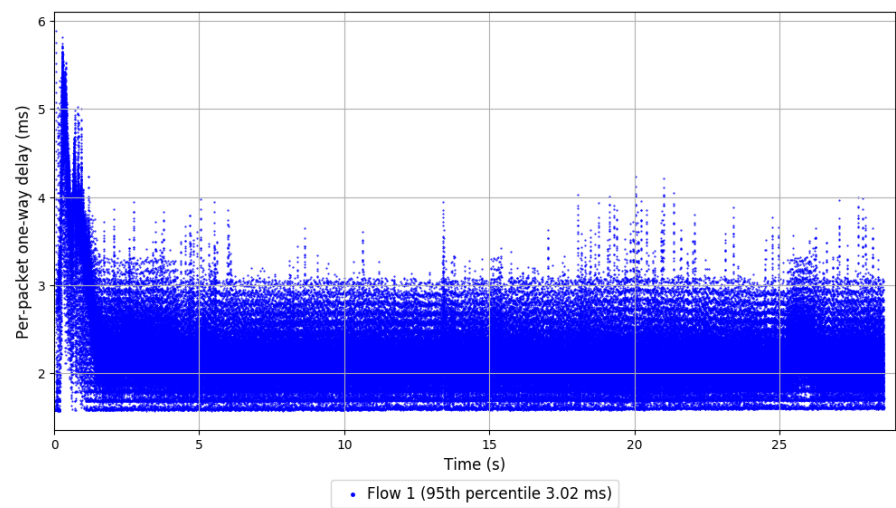
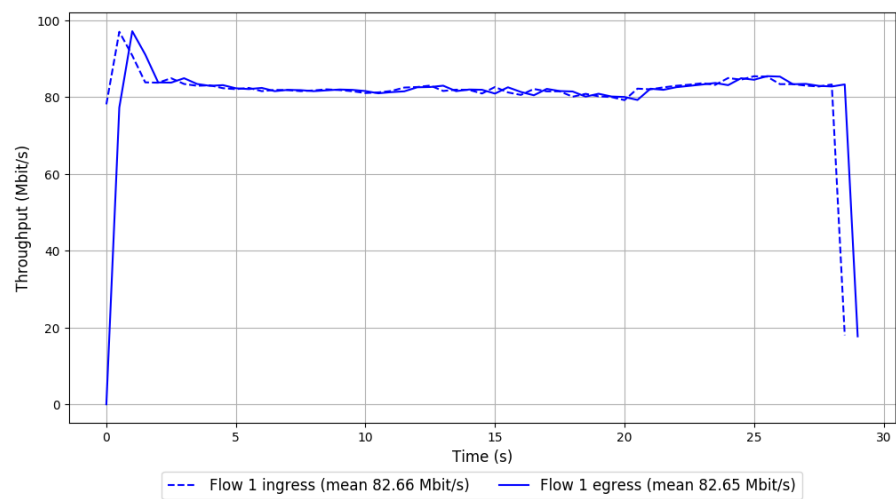
-- Flow 1:

Average throughput: 82.65 Mbit/s

95th percentile per-packet one-way delay: 3.021 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-21 21:56:47

End at: 2019-01-21 21:57:17

Local clock offset: -3.792 ms

Remote clock offset: 0.749 ms

# Below is generated by plot.py at 2019-01-21 23:09:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 3.495 ms

Loss rate: 0.02%

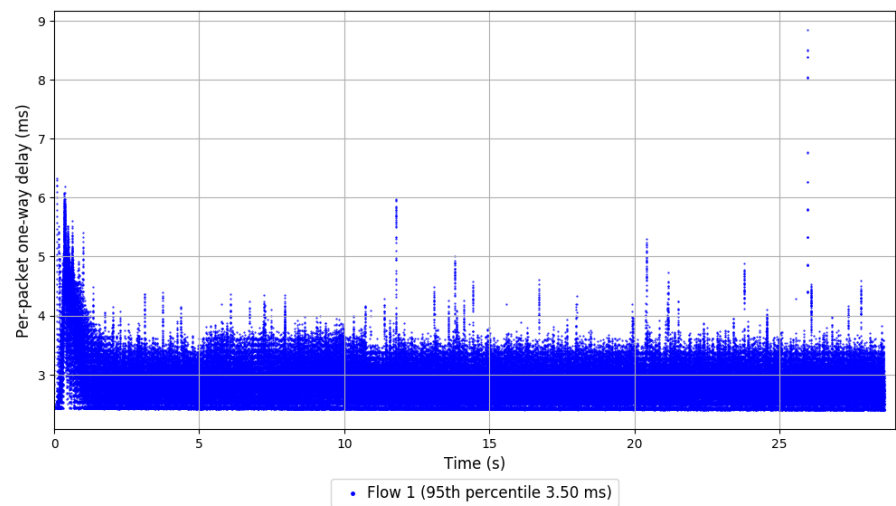
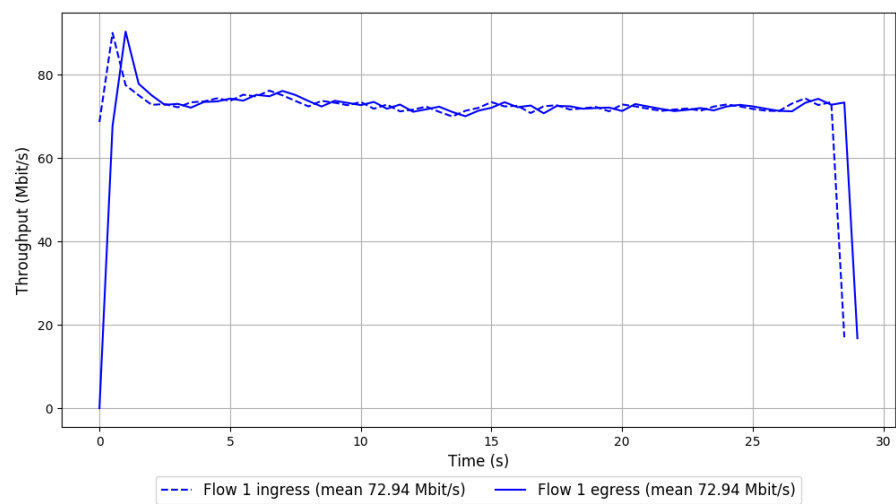
-- Flow 1:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 3.495 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-21 22:20:28

End at: 2019-01-21 22:20:58

Local clock offset: -4.448 ms

Remote clock offset: 1.029 ms

# Below is generated by plot.py at 2019-01-21 23:09:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.69 Mbit/s

95th percentile per-packet one-way delay: 3.158 ms

Loss rate: 0.02%

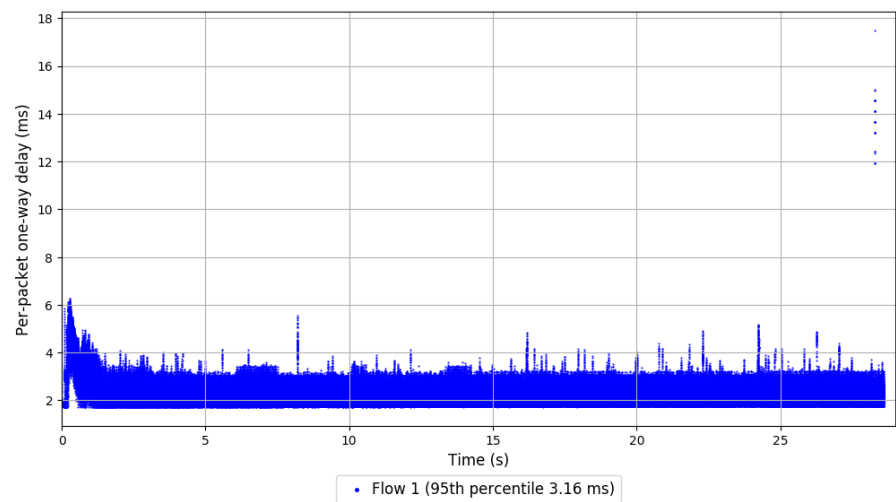
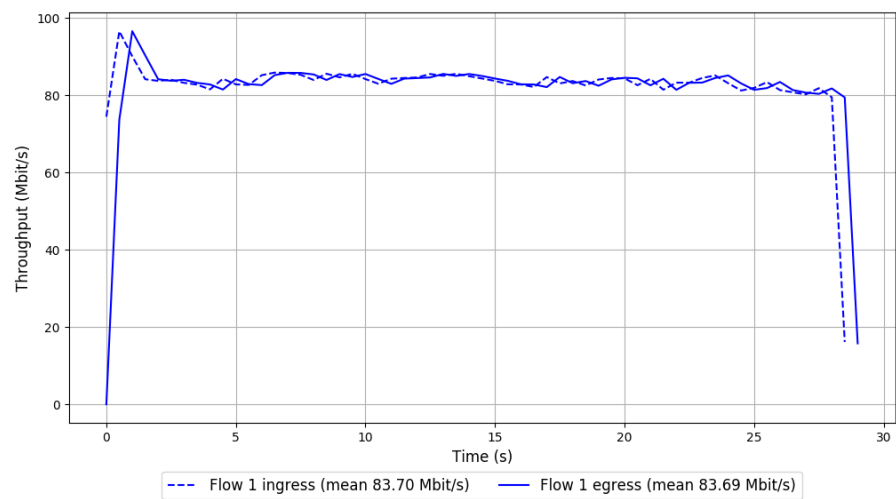
-- Flow 1:

Average throughput: 83.69 Mbit/s

95th percentile per-packet one-way delay: 3.158 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-21 22:44:12

End at: 2019-01-21 22:44:42

Local clock offset: -4.62 ms

Remote clock offset: 1.064 ms

# Below is generated by plot.py at 2019-01-21 23:09:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 3.243 ms

Loss rate: 0.02%

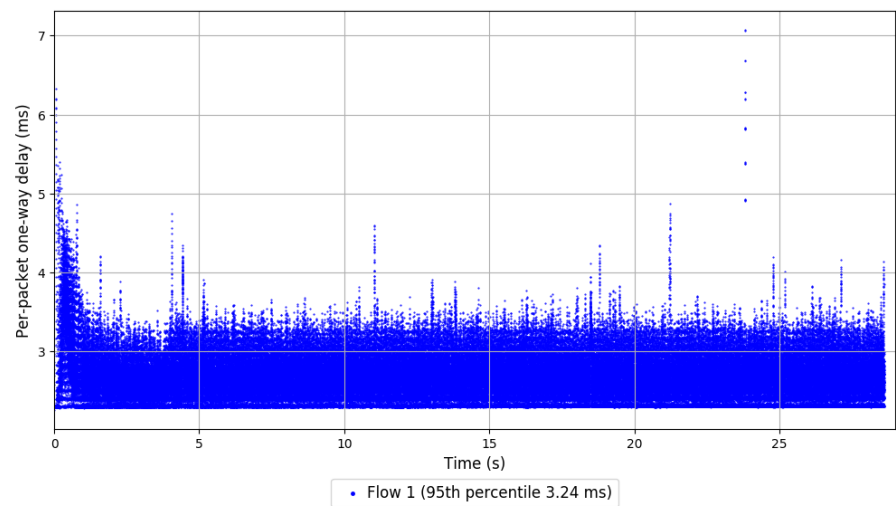
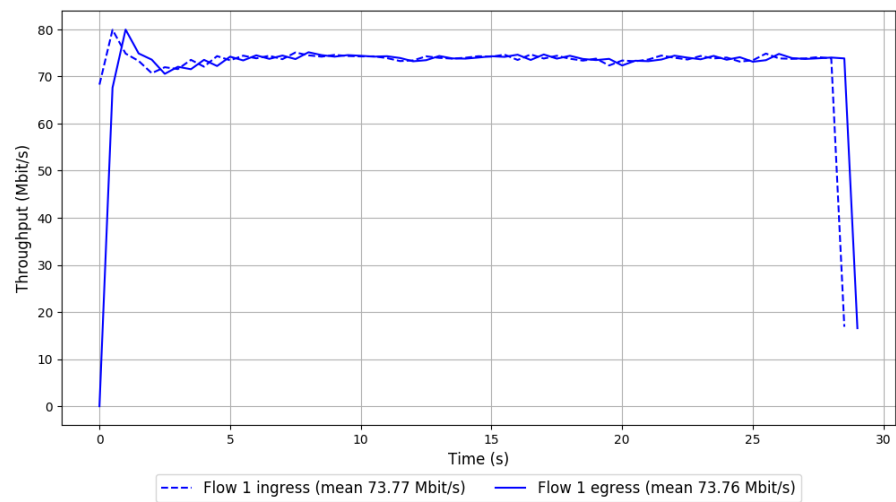
-- Flow 1:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 3.243 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-01-21 21:08:15

End at: 2019-01-21 21:08:45

Local clock offset: -5.315 ms

Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2019-01-21 23:09:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 10.100 ms

Loss rate: 0.09%

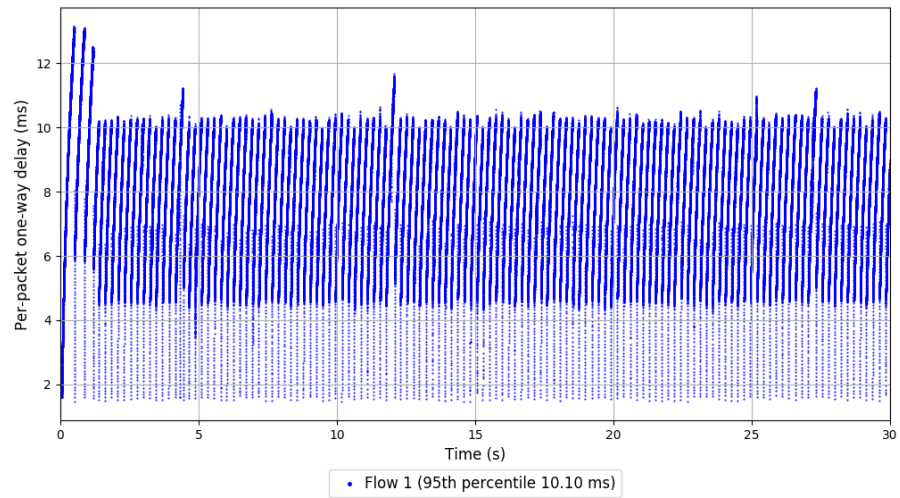
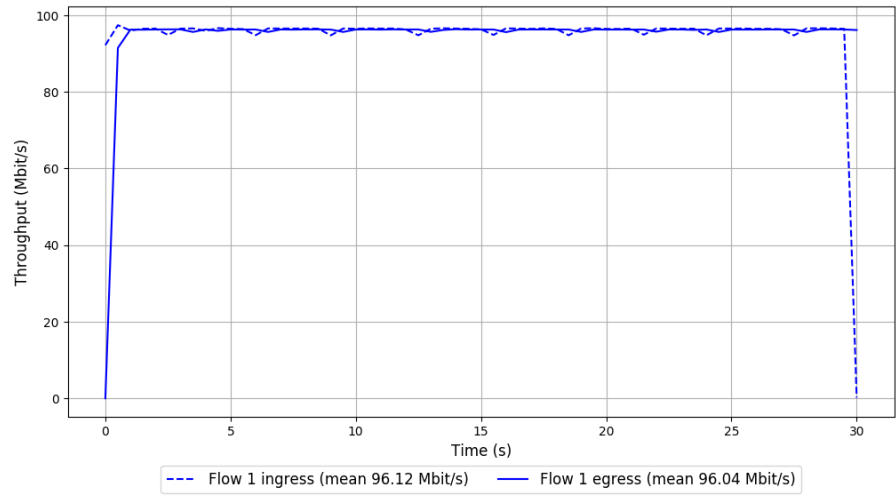
-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 10.100 ms

Loss rate: 0.09%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-21 21:31:55

End at: 2019-01-21 21:32:25

Local clock offset: -5.627 ms

Remote clock offset: 0.659 ms

# Below is generated by plot.py at 2019-01-21 23:09:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 9.908 ms

Loss rate: 0.07%

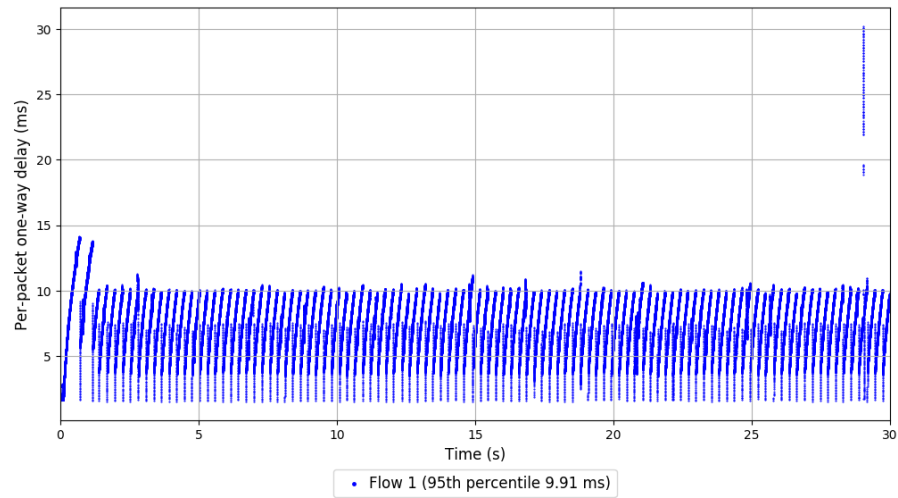
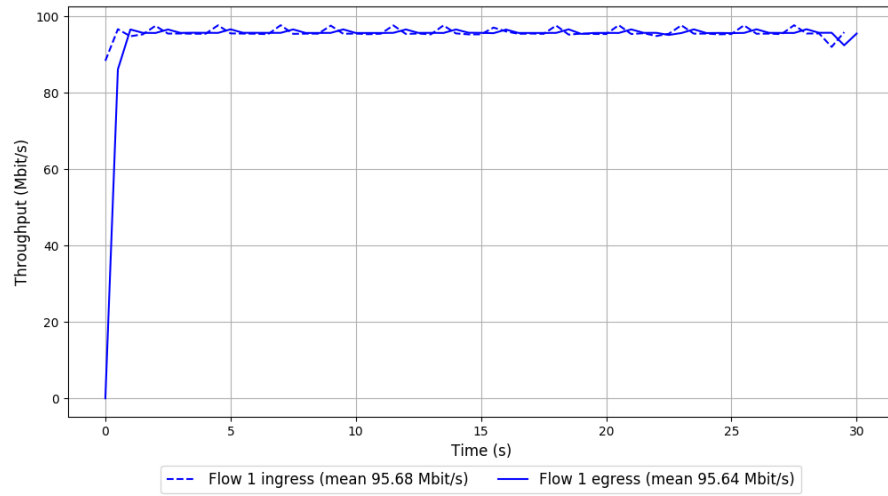
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 9.908 ms

Loss rate: 0.07%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-01-21 21:55:37

End at: 2019-01-21 21:56:07

Local clock offset: -4.571 ms

Remote clock offset: 0.85 ms

# Below is generated by plot.py at 2019-01-21 23:09:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 9.816 ms

Loss rate: 0.08%

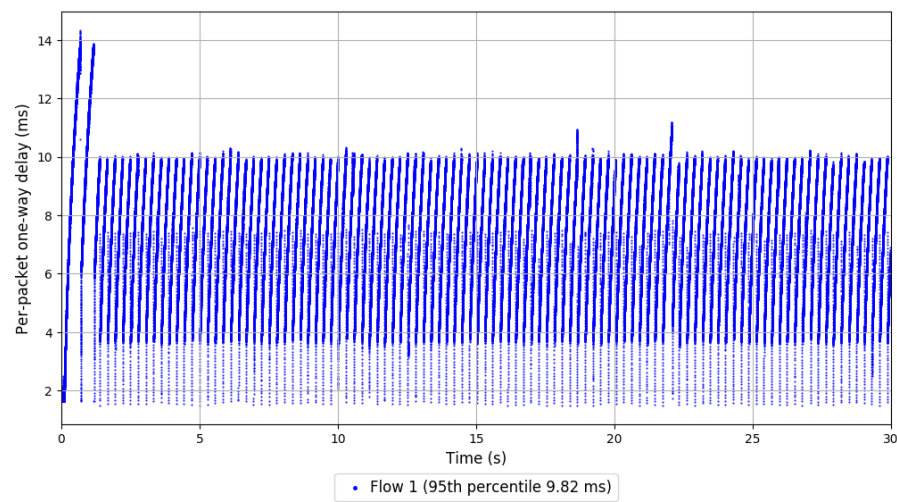
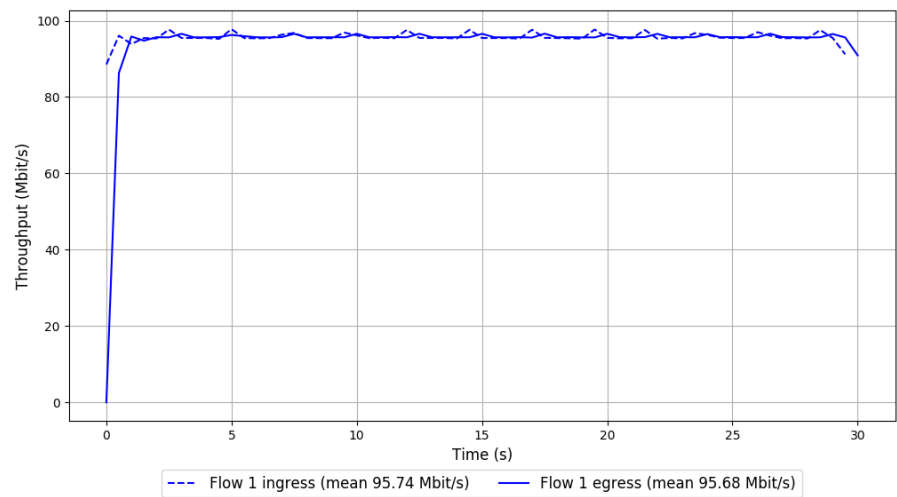
-- Flow 1:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 9.816 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-01-21 22:19:19

End at: 2019-01-21 22:19:49

Local clock offset: -4.347 ms

Remote clock offset: 1.042 ms

# Below is generated by plot.py at 2019-01-21 23:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 10.077 ms

Loss rate: 0.07%

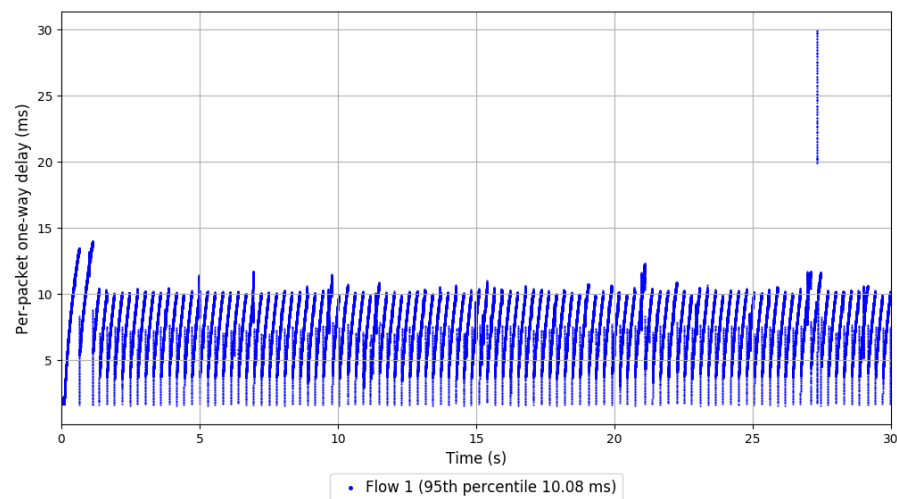
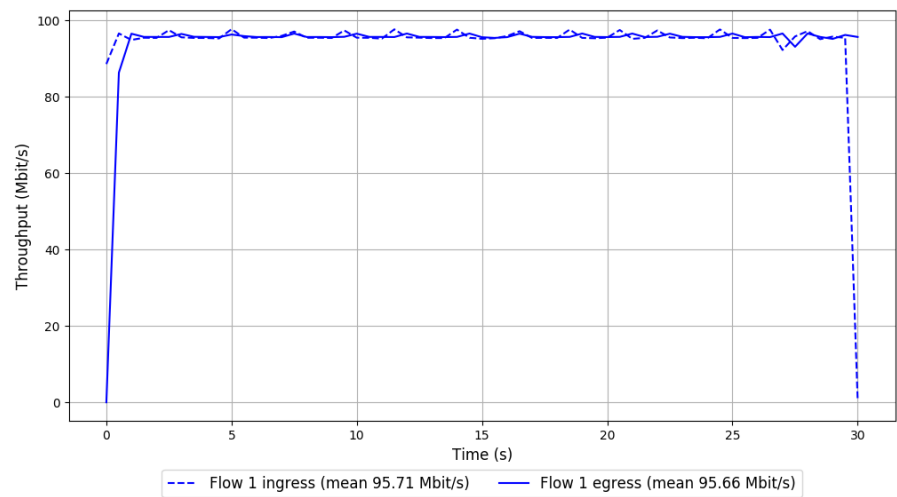
-- Flow 1:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 10.077 ms

Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-21 22:43:03

End at: 2019-01-21 22:43:33

Local clock offset: -4.54 ms

Remote clock offset: 0.97 ms

# Below is generated by plot.py at 2019-01-21 23:10:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 10.680 ms

Loss rate: 0.08%

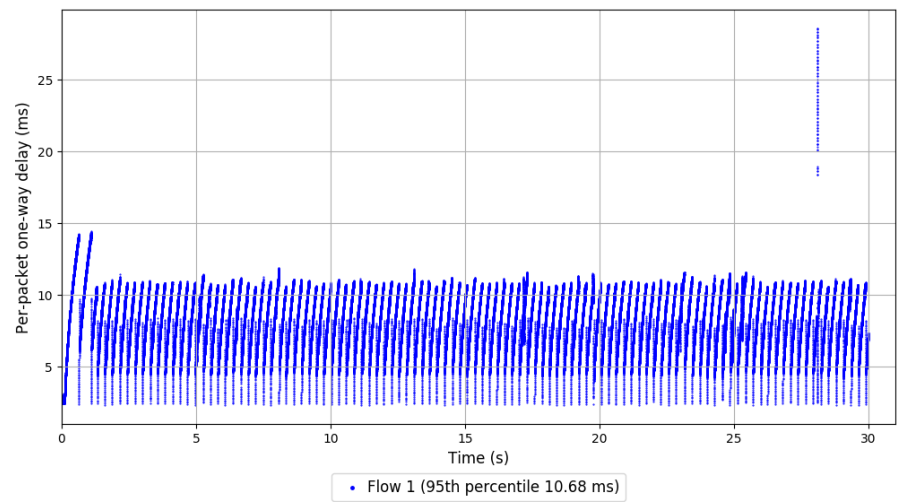
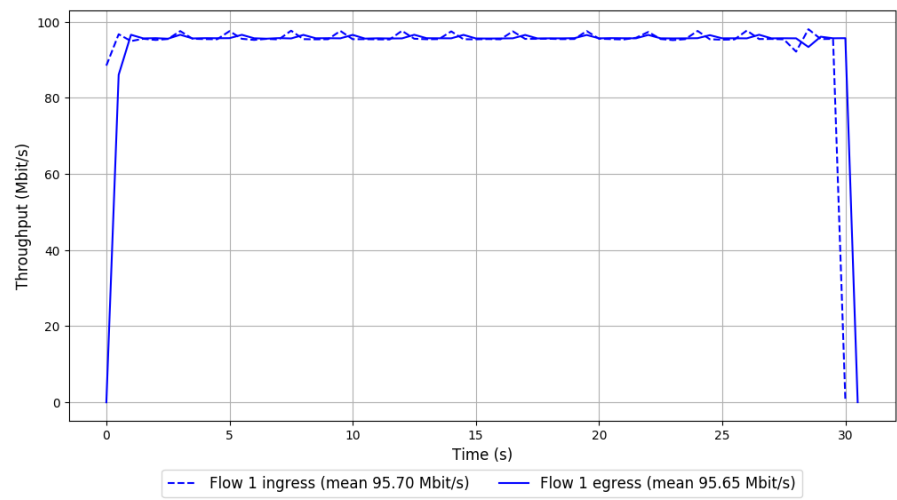
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 10.680 ms

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link

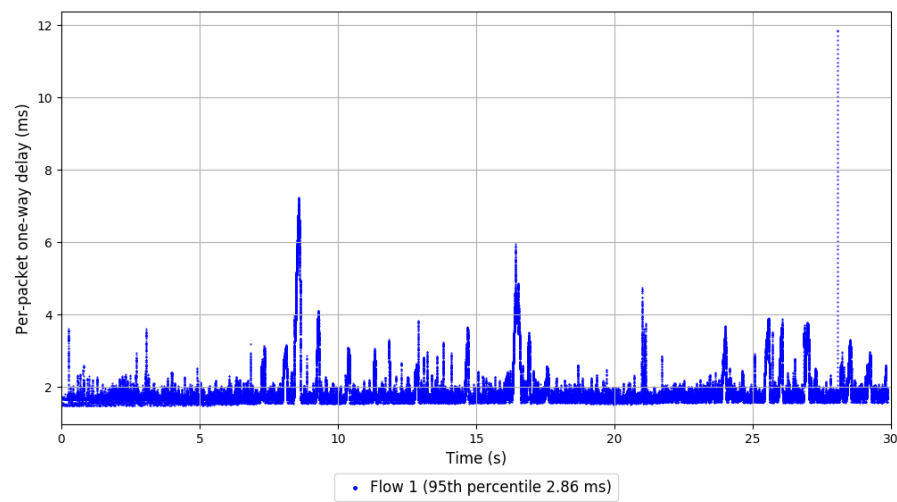
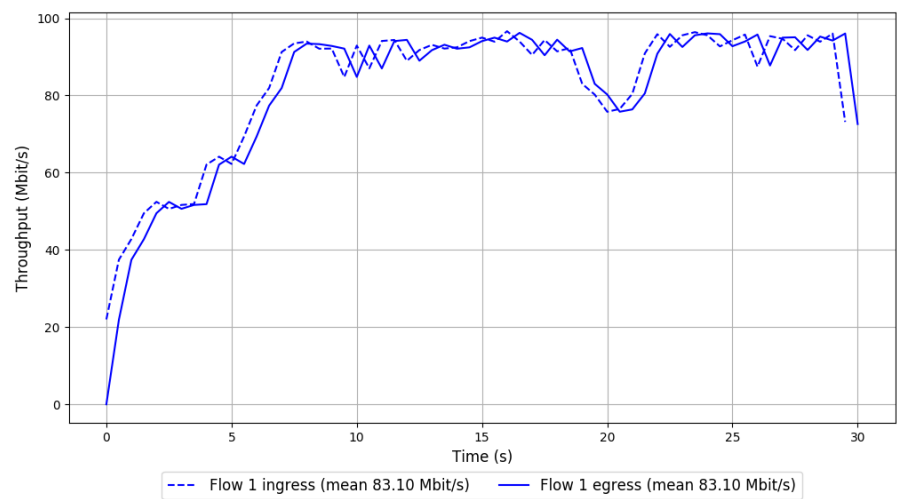


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-21 21:04:53
End at: 2019-01-21 21:05:23
Local clock offset: -5.156 ms
Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2019-01-21 23:10:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.10 Mbit/s
95th percentile per-packet one-way delay: 2.864 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 83.10 Mbit/s
95th percentile per-packet one-way delay: 2.864 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-21 21:28:33

End at: 2019-01-21 21:29:03

Local clock offset: -5.647 ms

Remote clock offset: 0.671 ms

# Below is generated by plot.py at 2019-01-21 23:10:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.99 Mbit/s

95th percentile per-packet one-way delay: 2.475 ms

Loss rate: 0.02%

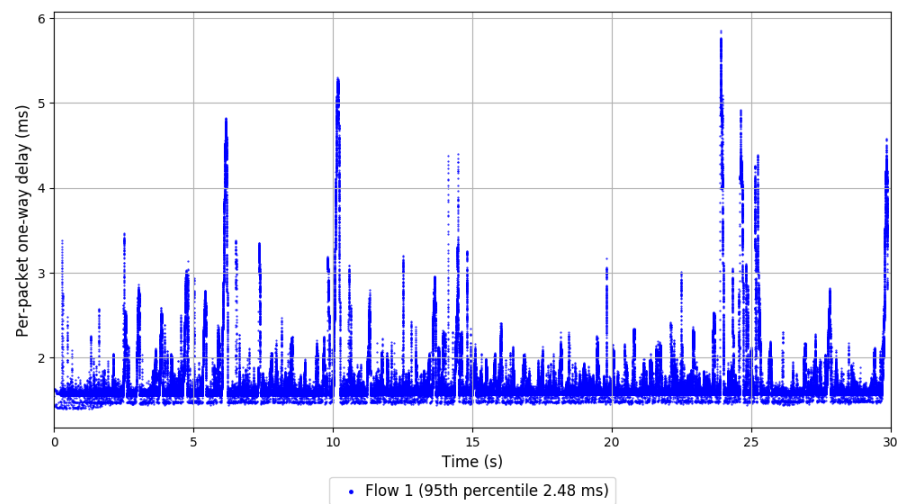
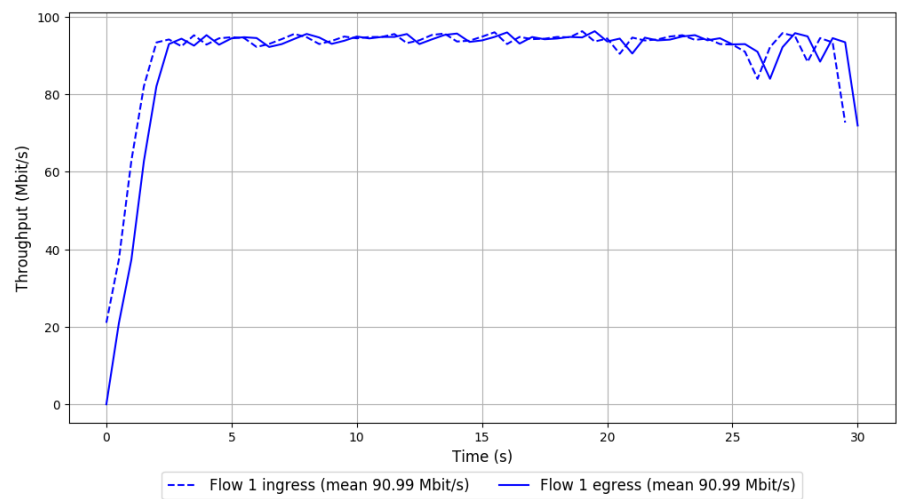
-- Flow 1:

Average throughput: 90.99 Mbit/s

95th percentile per-packet one-way delay: 2.475 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-21 21:52:16

End at: 2019-01-21 21:52:46

Local clock offset: -4.898 ms

Remote clock offset: 0.827 ms

# Below is generated by plot.py at 2019-01-21 23:10:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 2.429 ms

Loss rate: 0.02%

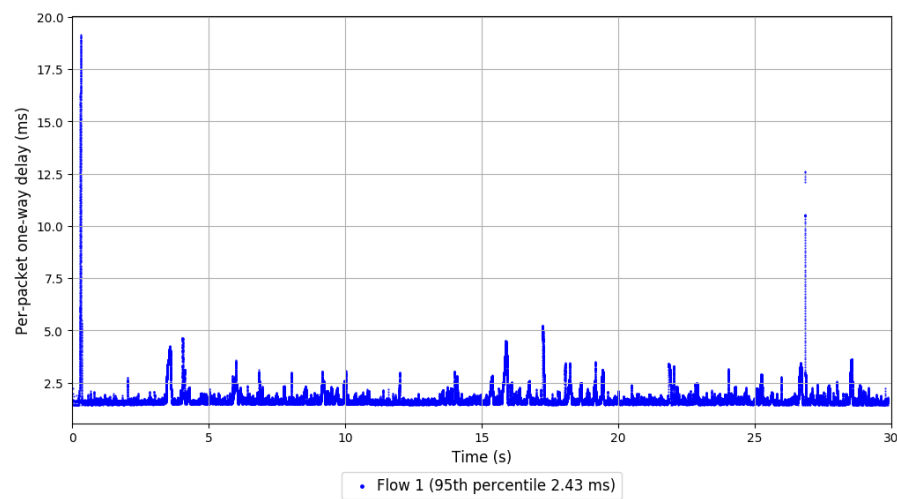
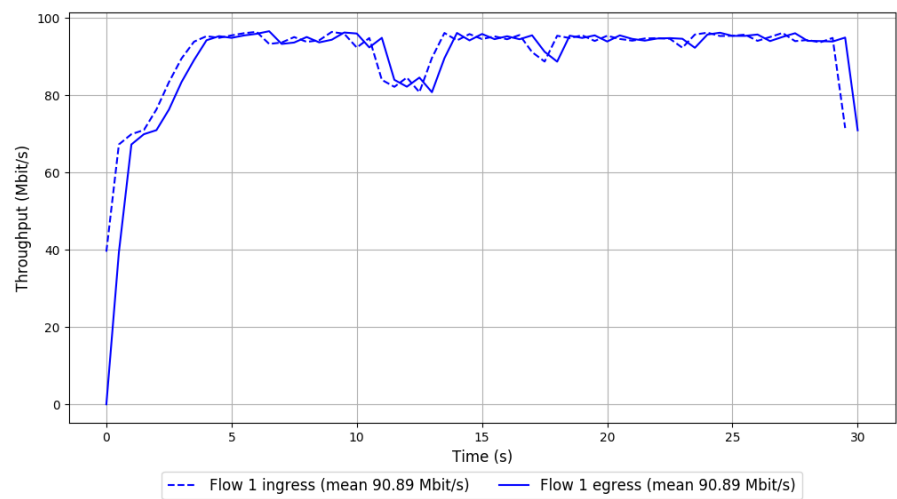
-- Flow 1:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 2.429 ms

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-21 22:15:57

End at: 2019-01-21 22:16:27

Local clock offset: -3.28 ms

Remote clock offset: 1.102 ms

# Below is generated by plot.py at 2019-01-21 23:10:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 3.144 ms

Loss rate: 0.02%

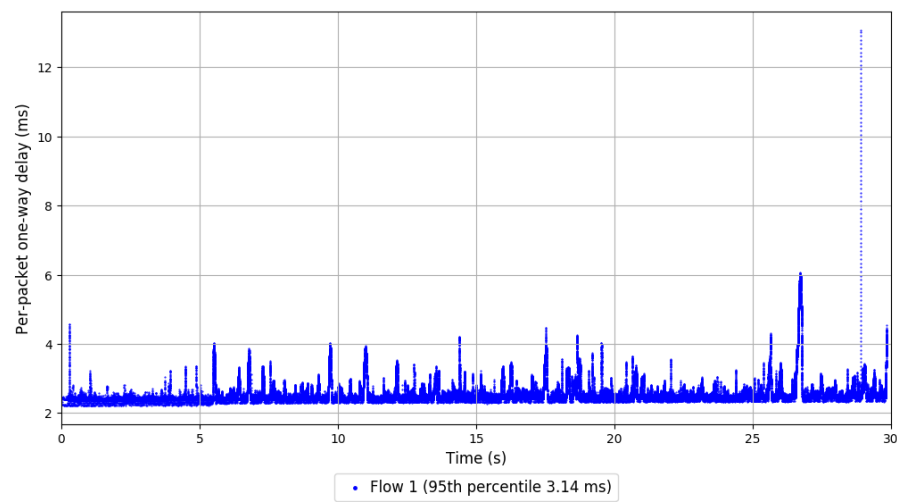
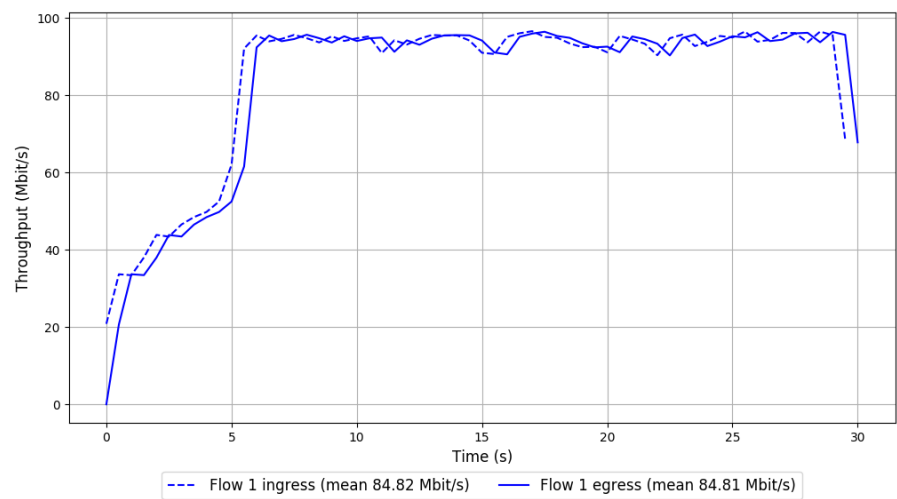
-- Flow 1:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 3.144 ms

Loss rate: 0.02%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-21 22:39:41

End at: 2019-01-21 22:40:11

Local clock offset: -4.477 ms

Remote clock offset: 1.059 ms

# Below is generated by plot.py at 2019-01-21 23:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 77.355 ms

Loss rate: 0.11%

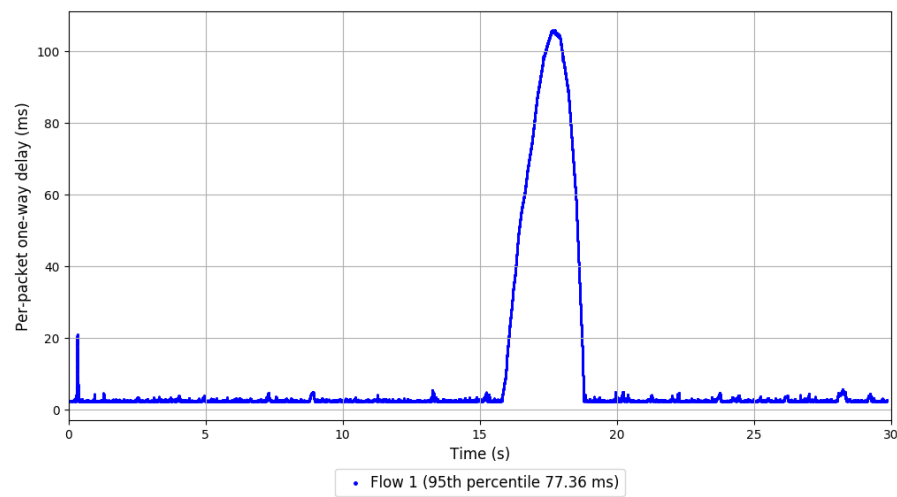
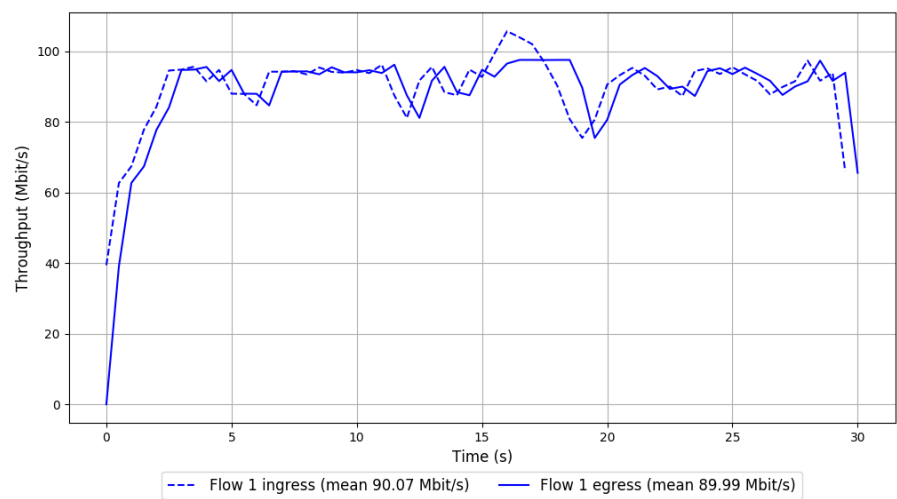
-- Flow 1:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 77.355 ms

Loss rate: 0.11%

Run 5: Report of PCC-Allegro — Data Link



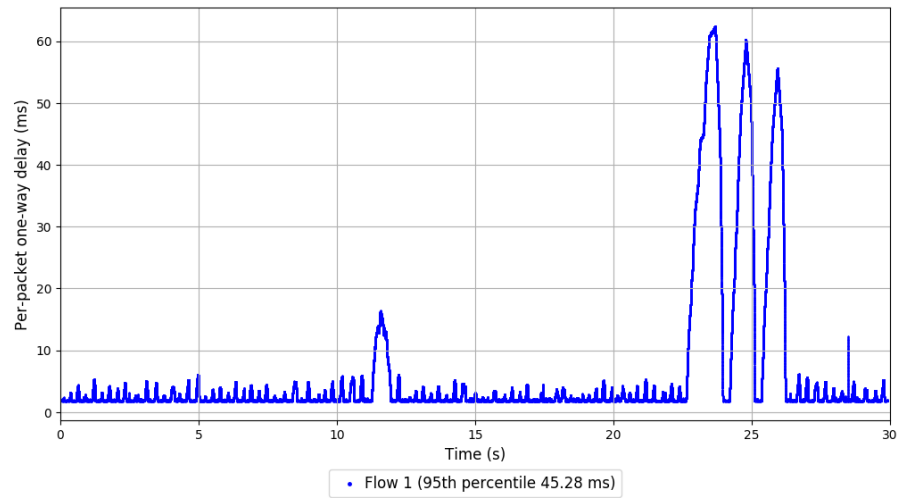
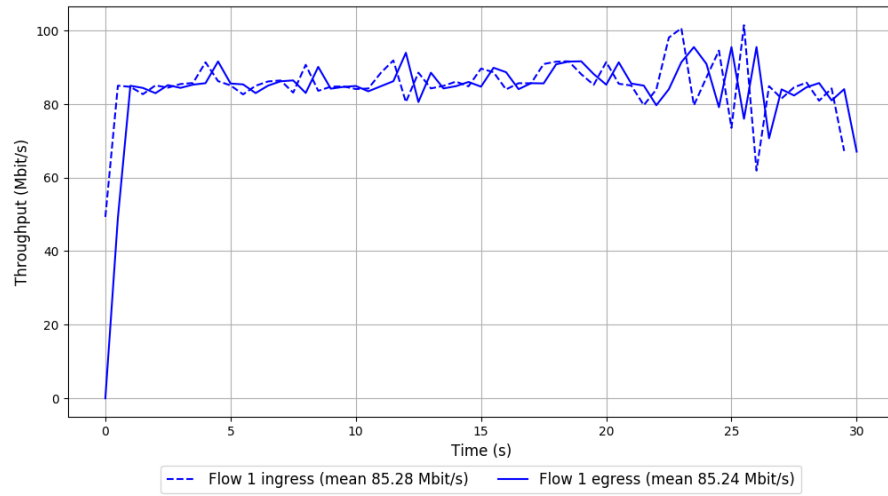


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-21 21:13:55
End at: 2019-01-21 21:14:25
Local clock offset: -5.557 ms
Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2019-01-21 23:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 45.277 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 45.277 ms
Loss rate: 0.06%
```

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



Run 2: Statistics of PCC-Expr

Start at: 2019-01-21 21:37:37

End at: 2019-01-21 21:38:07

Local clock offset: -5.795 ms

Remote clock offset: 0.709 ms

# Below is generated by plot.py at 2019-01-21 23:11:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 78.003 ms

Loss rate: 0.67%

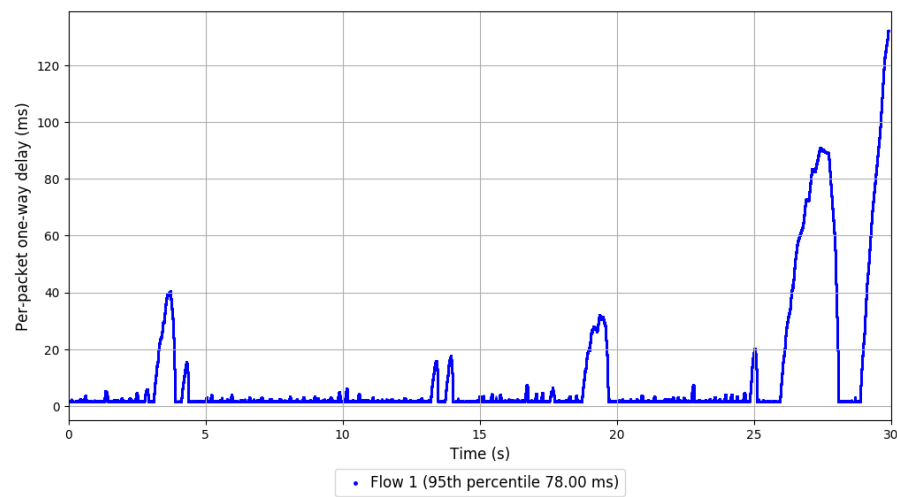
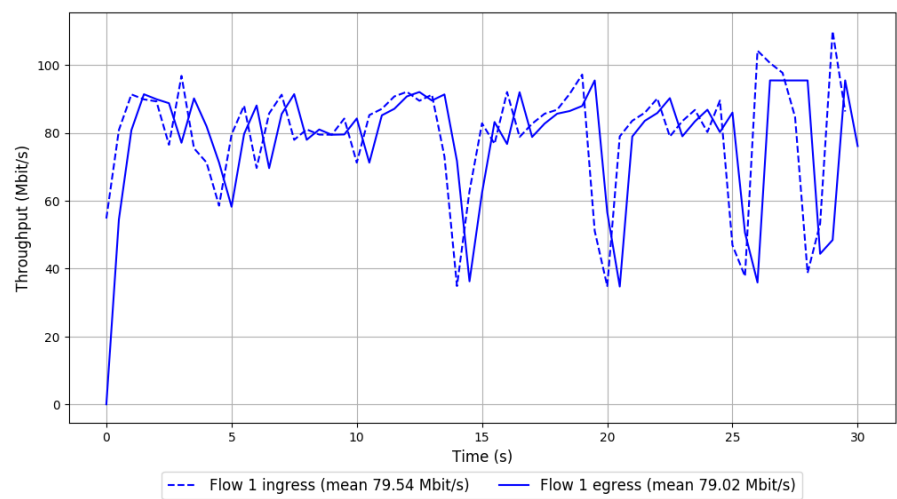
-- Flow 1:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 78.003 ms

Loss rate: 0.67%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-21 22:01:18

End at: 2019-01-21 22:01:48

Local clock offset: -4.267 ms

Remote clock offset: 0.966 ms

# Below is generated by plot.py at 2019-01-21 23:11:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 4.728 ms

Loss rate: 0.01%

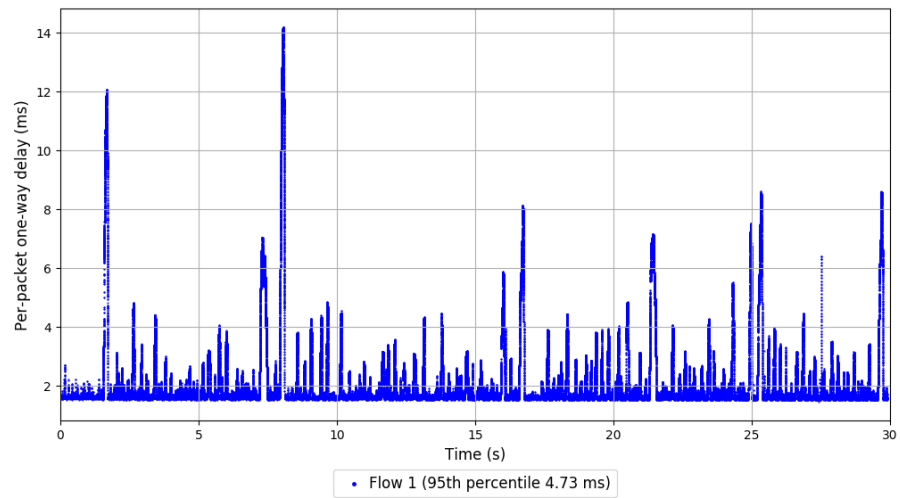
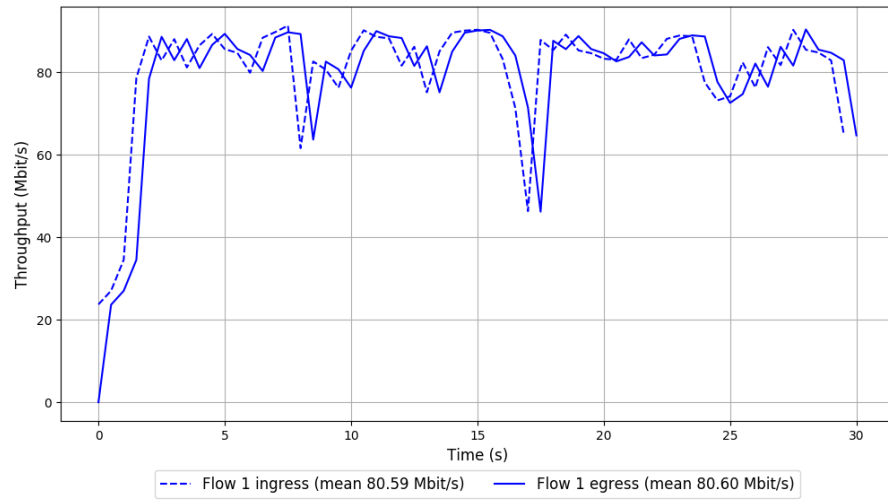
-- Flow 1:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 4.728 ms

Loss rate: 0.01%

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



Run 4: Statistics of PCC-Expr

Start at: 2019-01-21 22:25:00

End at: 2019-01-21 22:25:30

Local clock offset: -3.993 ms

Remote clock offset: 0.968 ms

# Below is generated by plot.py at 2019-01-21 23:12:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.34 Mbit/s

95th percentile per-packet one-way delay: 641.169 ms

Loss rate: 4.17%

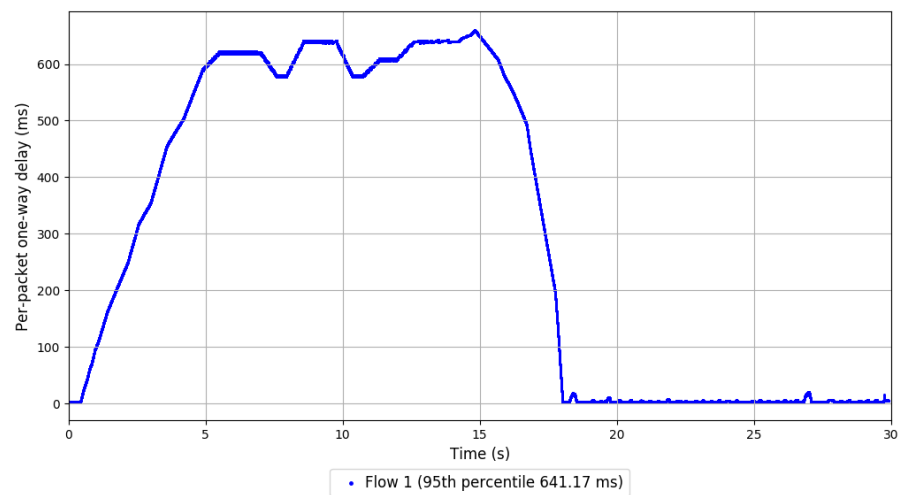
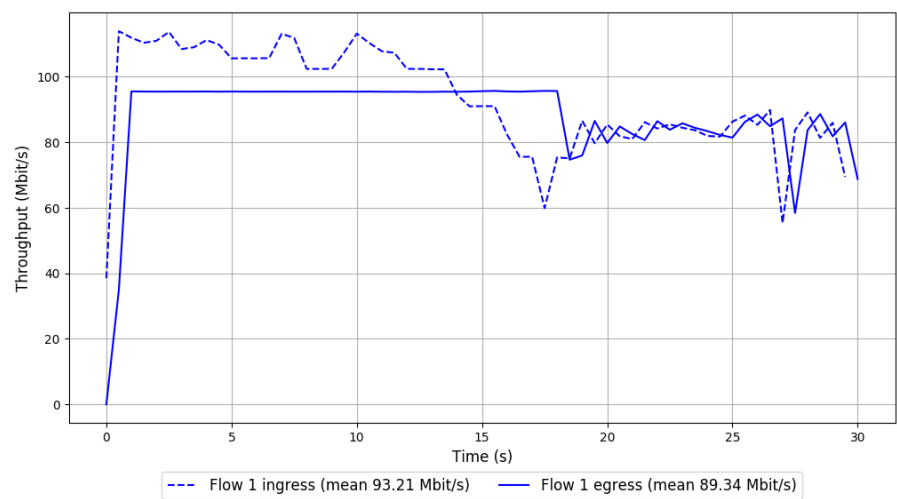
-- Flow 1:

Average throughput: 89.34 Mbit/s

95th percentile per-packet one-way delay: 641.169 ms

Loss rate: 4.17%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-01-21 22:48:44

End at: 2019-01-21 22:49:14

Local clock offset: -4.641 ms

Remote clock offset: 1.044 ms

# Below is generated by plot.py at 2019-01-21 23:12:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 6.177 ms

Loss rate: 0.02%

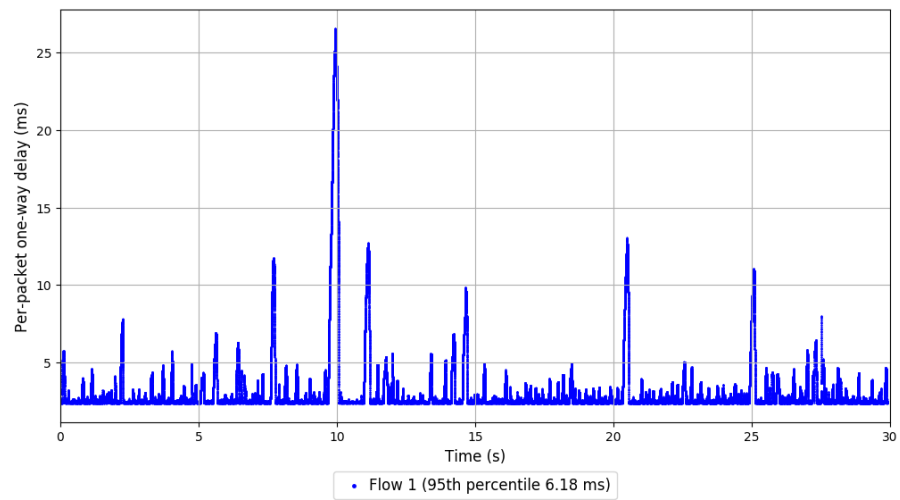
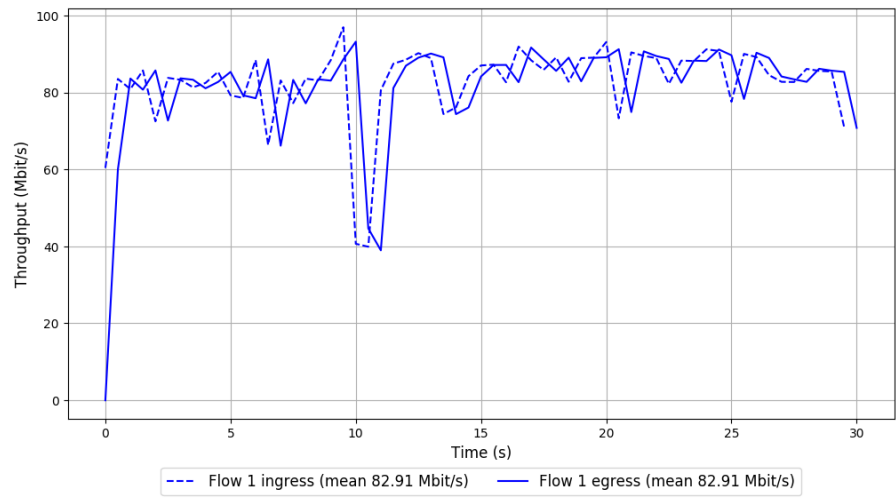
-- Flow 1:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 6.177 ms

Loss rate: 0.02%

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



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-21 21:03:45

End at: 2019-01-21 21:04:15

Local clock offset: -4.349 ms

Remote clock offset: 0.384 ms

# Below is generated by plot.py at 2019-01-21 23:12:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.98 Mbit/s

95th percentile per-packet one-way delay: 9.872 ms

Loss rate: 0.03%

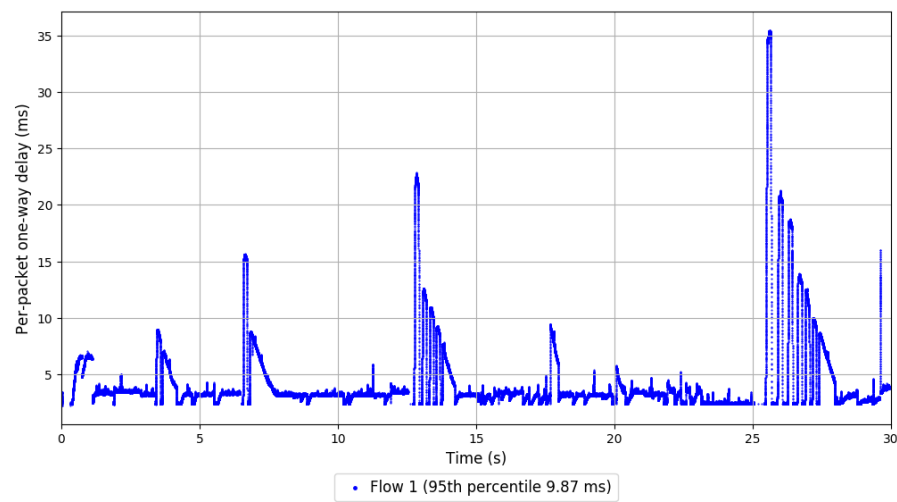
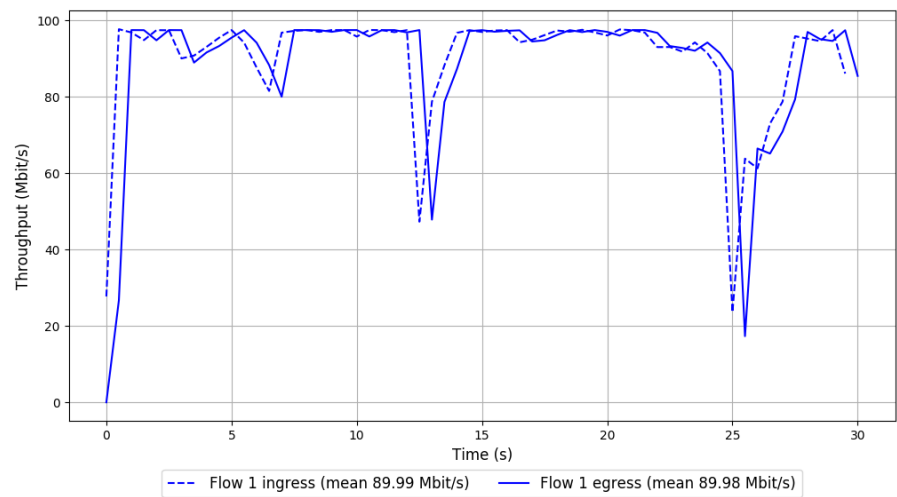
-- Flow 1:

Average throughput: 89.98 Mbit/s

95th percentile per-packet one-way delay: 9.872 ms

Loss rate: 0.03%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-21 21:27:25

End at: 2019-01-21 21:27:55

Local clock offset: -4.789 ms

Remote clock offset: 0.518 ms

# Below is generated by plot.py at 2019-01-21 23:12:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 10.144 ms

Loss rate: 0.02%

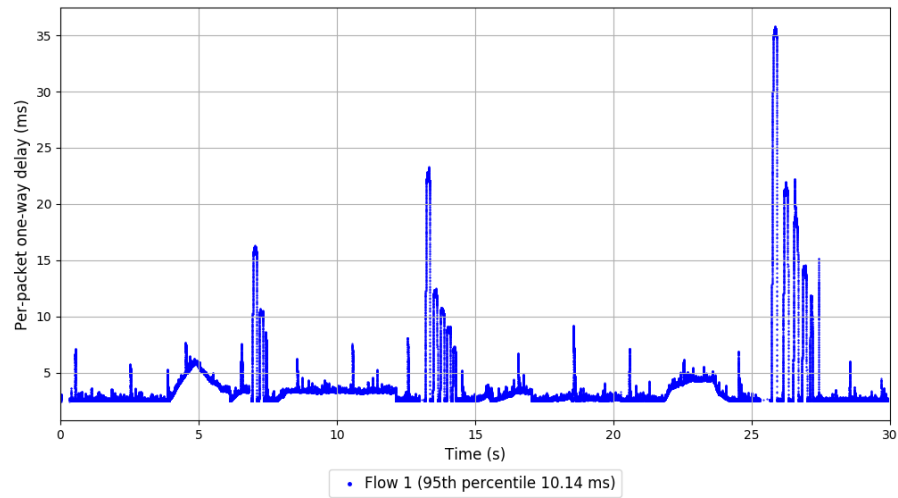
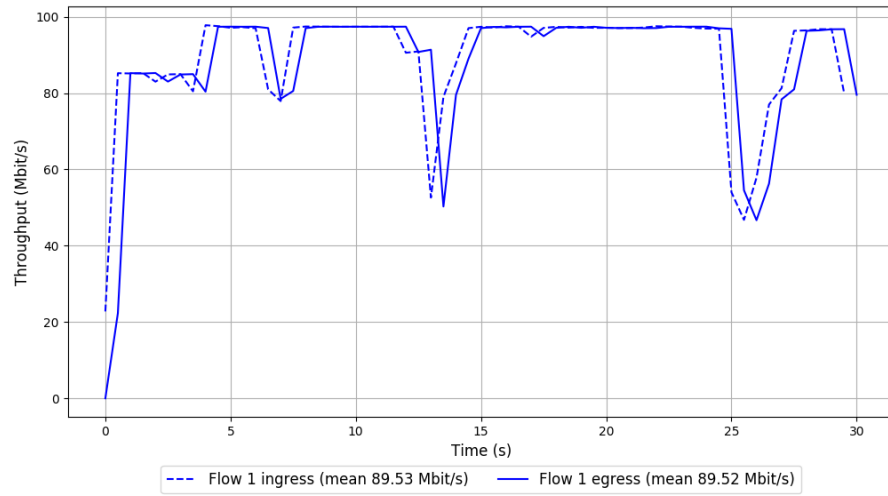
-- Flow 1:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 10.144 ms

Loss rate: 0.02%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-21 21:51:08

End at: 2019-01-21 21:51:38

Local clock offset: -5.054 ms

Remote clock offset: 0.759 ms

# Below is generated by plot.py at 2019-01-21 23:12:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 9.118 ms

Loss rate: 0.02%

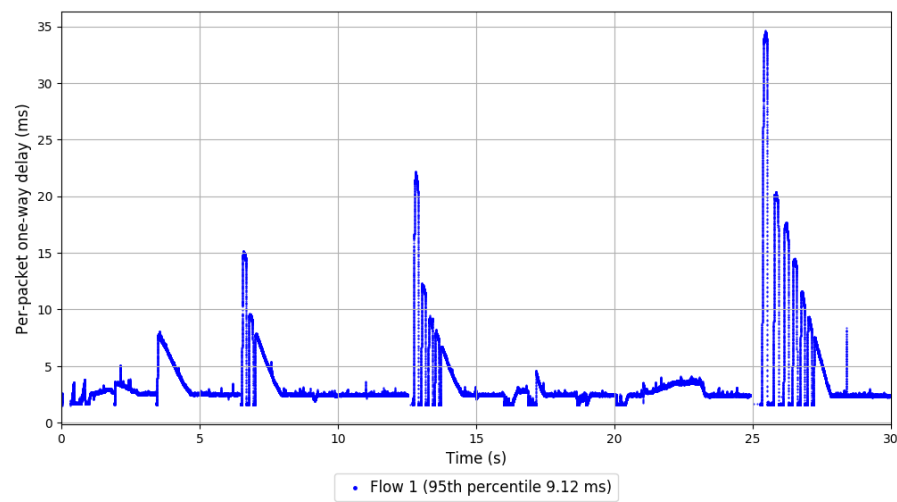
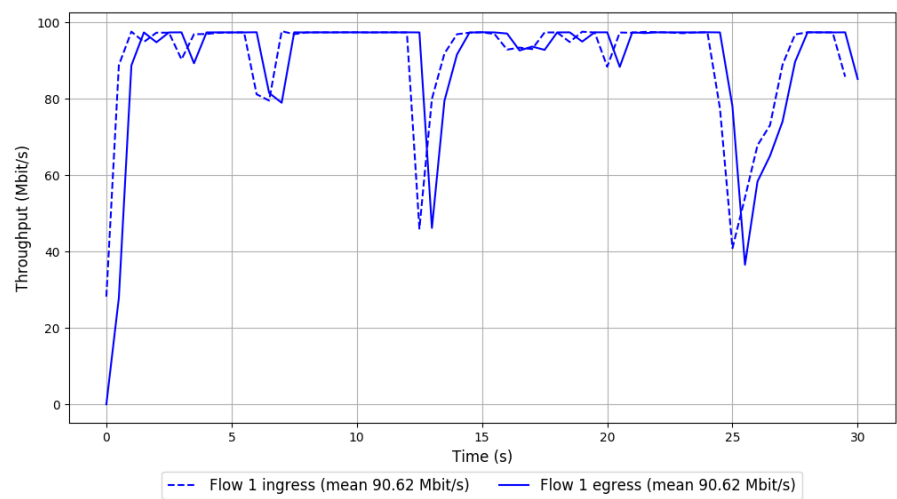
-- Flow 1:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 9.118 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-21 22:14:49

End at: 2019-01-21 22:15:19

Local clock offset: -3.334 ms

Remote clock offset: 1.034 ms

# Below is generated by plot.py at 2019-01-21 23:12:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 5.245 ms

Loss rate: 0.02%

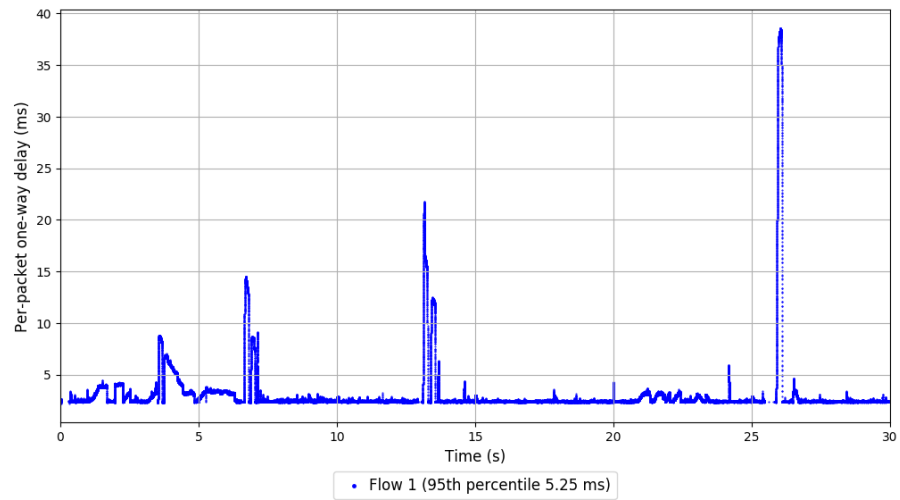
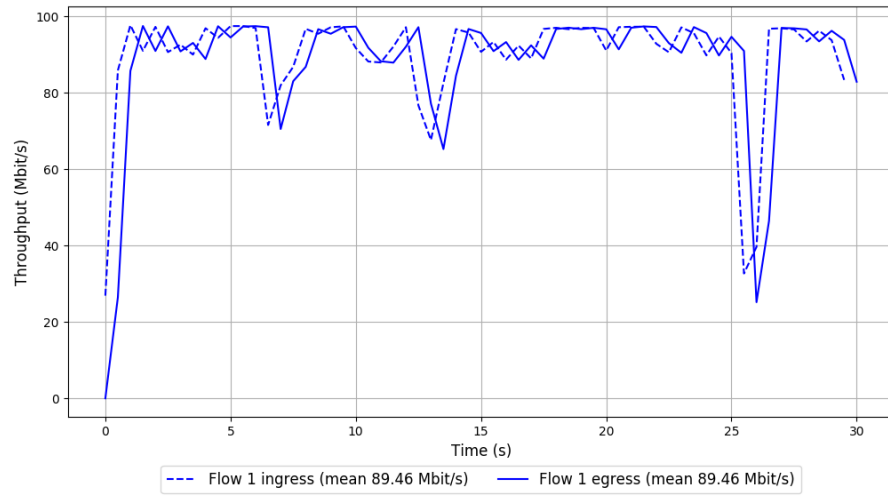
-- Flow 1:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 5.245 ms

Loss rate: 0.02%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-21 22:38:33

End at: 2019-01-21 22:39:03

Local clock offset: -5.281 ms

Remote clock offset: 1.061 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 7.631 ms

Loss rate: 0.05%

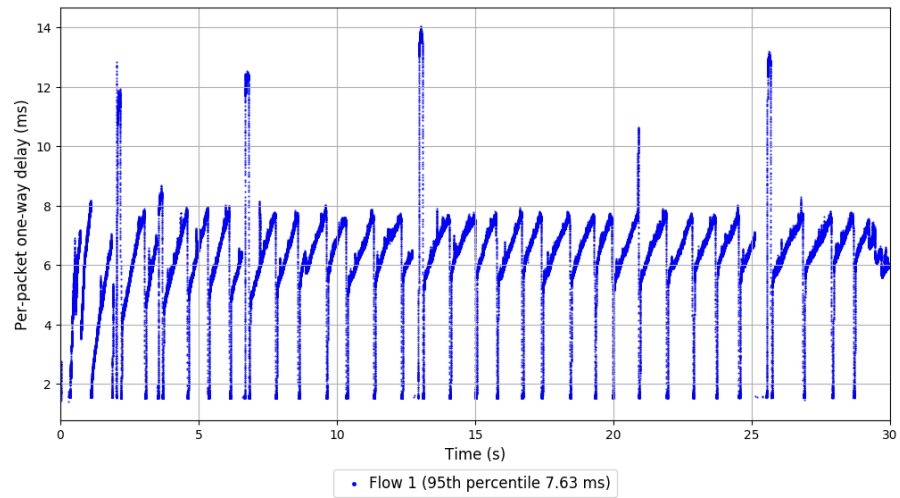
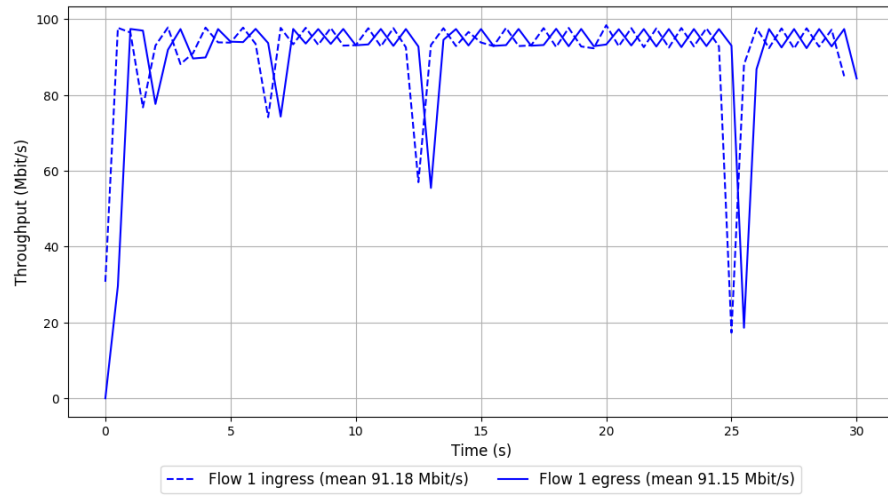
-- Flow 1:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 7.631 ms

Loss rate: 0.05%

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



Run 1: Statistics of SCReAM

Start at: 2019-01-21 21:21:52

End at: 2019-01-21 21:22:22

Local clock offset: -4.768 ms

Remote clock offset: 0.611 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.529 ms

Loss rate: 0.00%

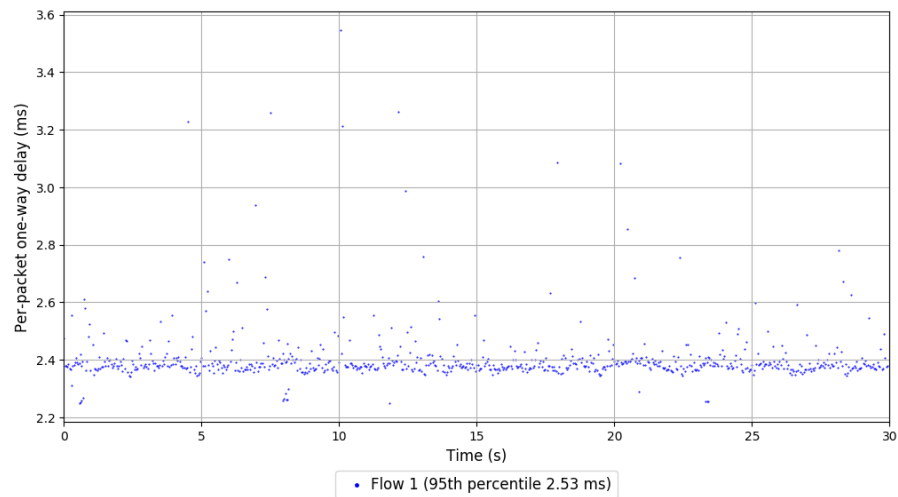
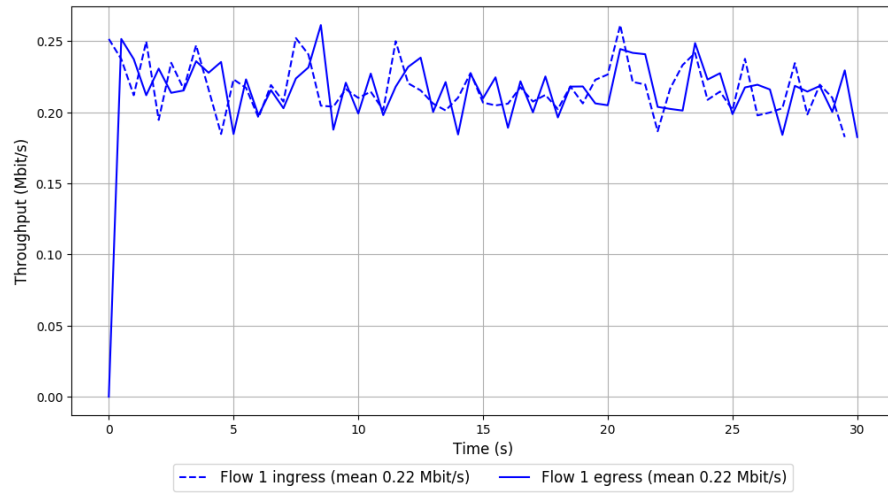
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.529 ms

Loss rate: 0.00%

## Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-21 21:45:34

End at: 2019-01-21 21:46:04

Local clock offset: -6.012 ms

Remote clock offset: 0.841 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.00%

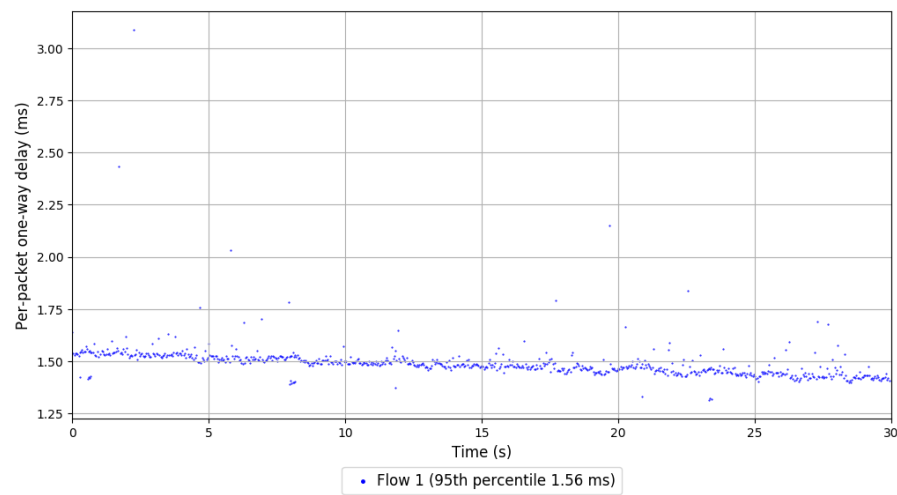
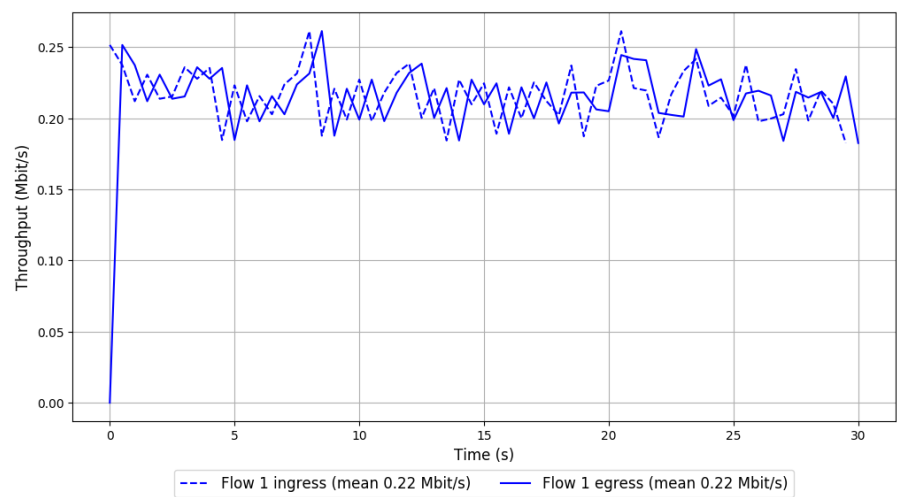
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2019-01-21 22:09:15

End at: 2019-01-21 22:09:45

Local clock offset: -3.307 ms

Remote clock offset: 1.046 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.415 ms

Loss rate: 0.00%

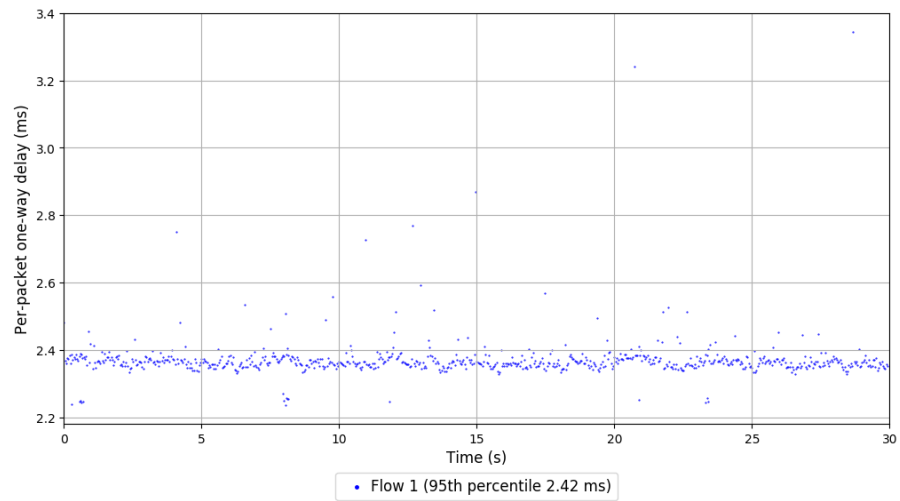
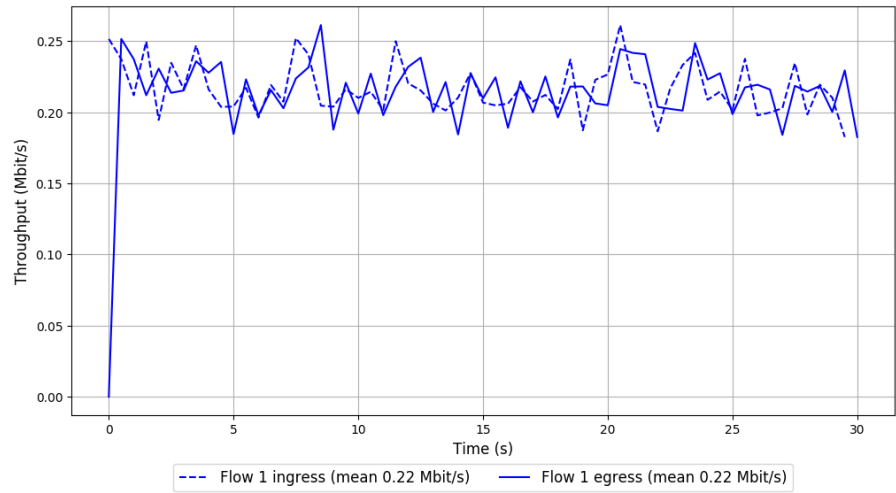
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.415 ms

Loss rate: 0.00%

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



Run 4: Statistics of SCReAM

Start at: 2019-01-21 22:33:00

End at: 2019-01-21 22:33:30

Local clock offset: -4.312 ms

Remote clock offset: 1.026 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.097 ms

Loss rate: 0.00%

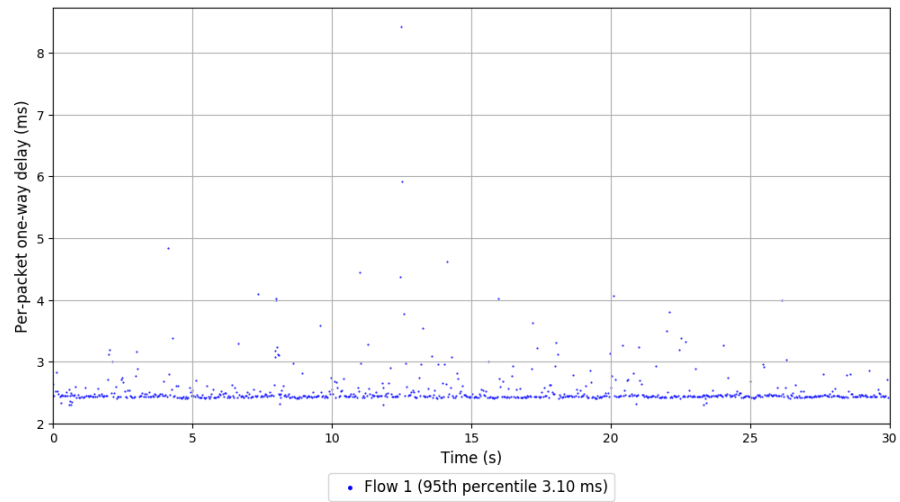
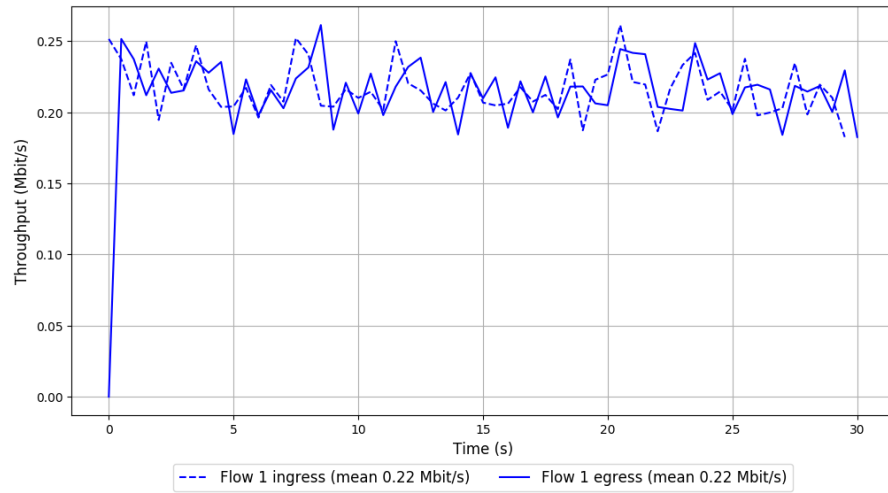
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.097 ms

Loss rate: 0.00%

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



Run 5: Statistics of SCReAM

Start at: 2019-01-21 22:56:40

End at: 2019-01-21 22:57:10

Local clock offset: -4.795 ms

Remote clock offset: 0.931 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.655 ms

Loss rate: 0.00%

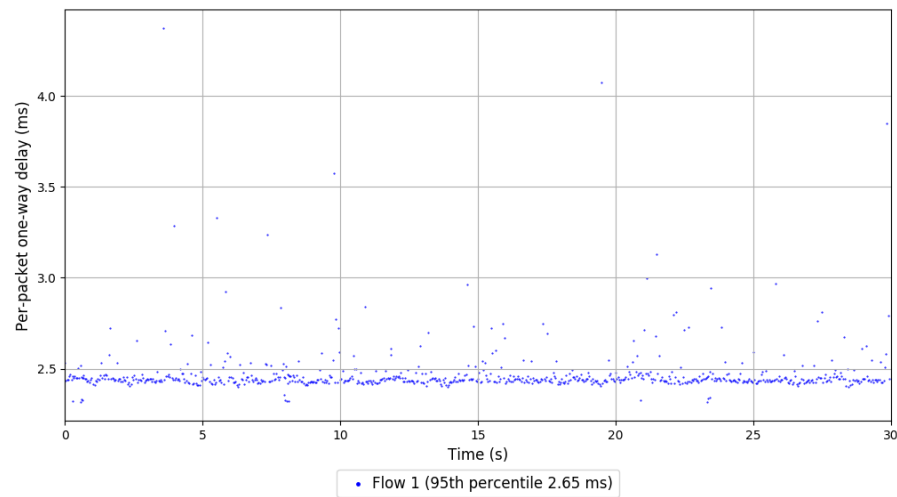
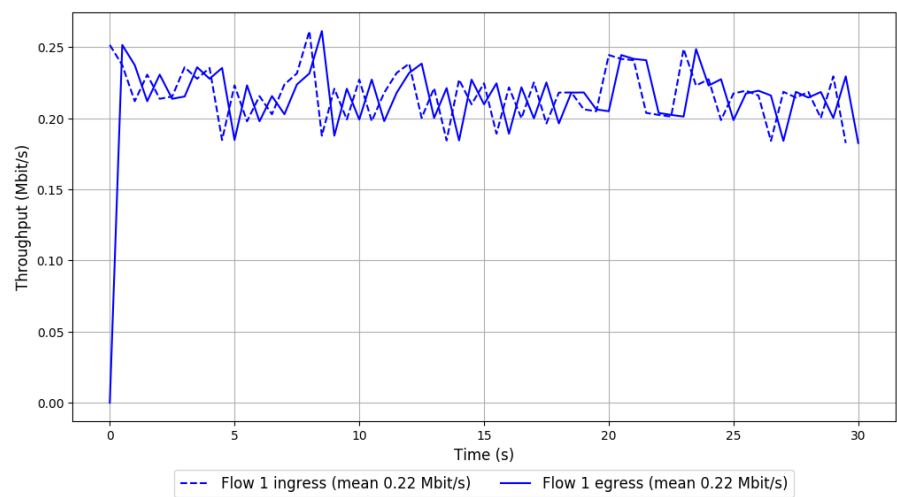
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.655 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-21 21:18:29

End at: 2019-01-21 21:18:59

Local clock offset: -5.586 ms

Remote clock offset: 0.503 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 10.186 ms

Loss rate: 0.01%

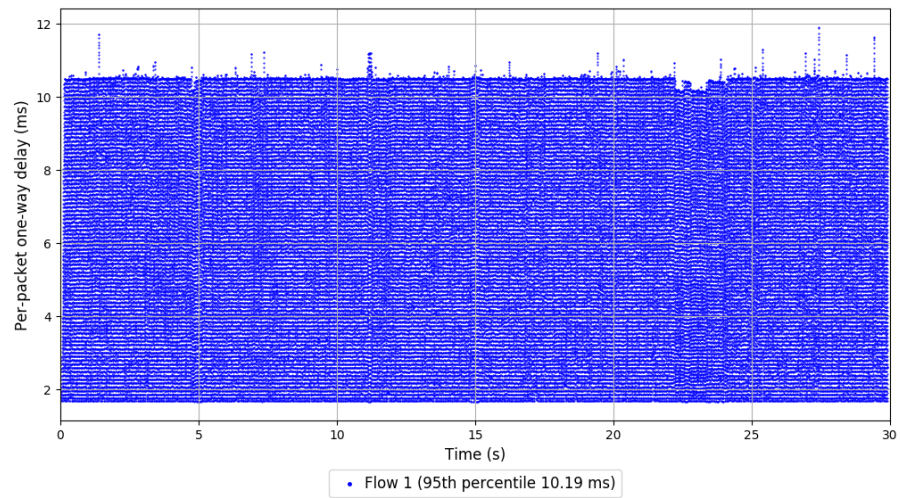
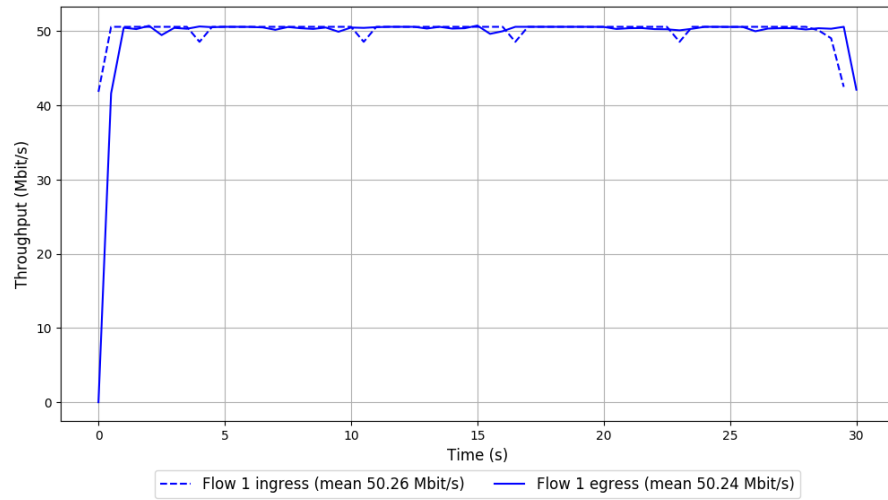
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 10.186 ms

Loss rate: 0.01%

## Run 1: Report of Sprout — Data Link



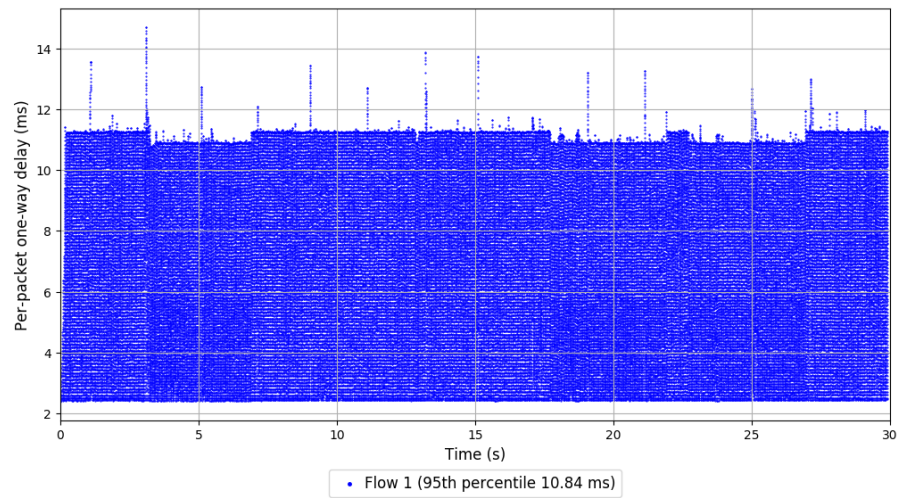
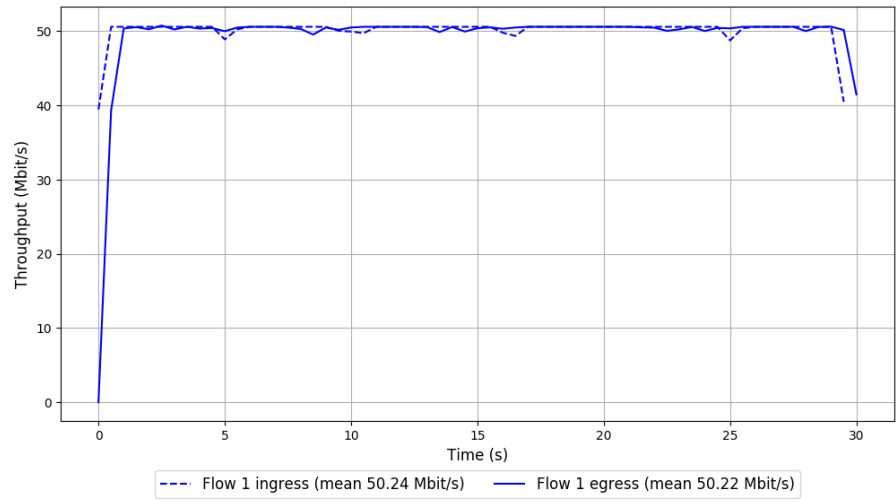


Run 2: Statistics of Sprout

Start at: 2019-01-21 21:42:13  
End at: 2019-01-21 21:42:43  
Local clock offset: -5.09 ms  
Remote clock offset: 0.822 ms

# Below is generated by plot.py at 2019-01-21 23:12:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.22 Mbit/s  
95th percentile per-packet one-way delay: 10.838 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.22 Mbit/s  
95th percentile per-packet one-way delay: 10.838 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

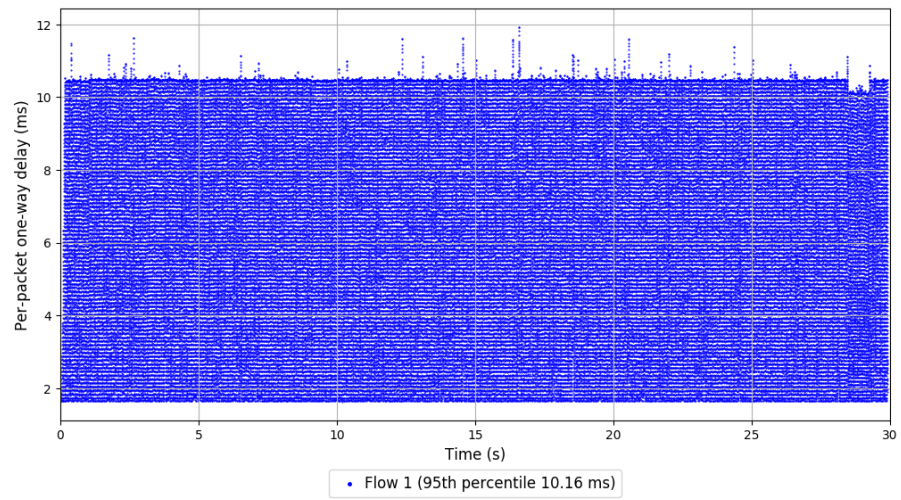
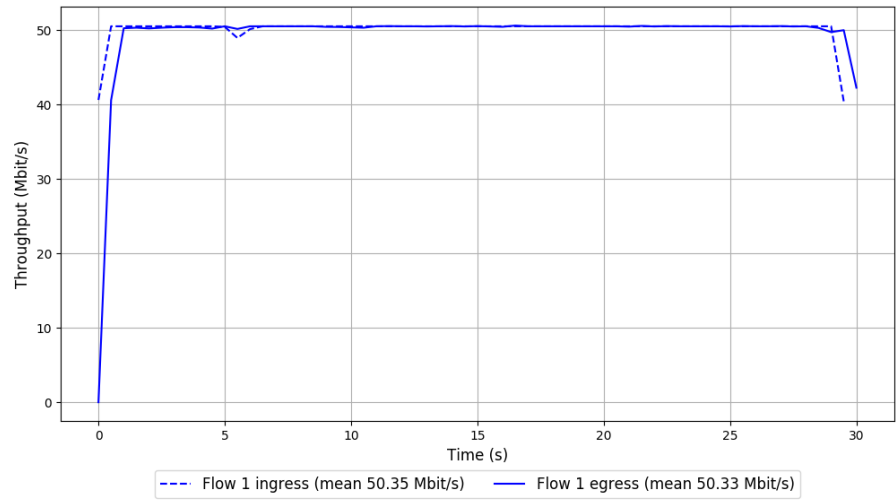


Run 3: Statistics of Sprout

Start at: 2019-01-21 22:05:52  
End at: 2019-01-21 22:06:22  
Local clock offset: -4.134 ms  
Remote clock offset: 0.981 ms

# Below is generated by plot.py at 2019-01-21 23:12:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.33 Mbit/s  
95th percentile per-packet one-way delay: 10.163 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.33 Mbit/s  
95th percentile per-packet one-way delay: 10.163 ms  
Loss rate: 0.00%

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



Run 4: Statistics of Sprout

Start at: 2019-01-21 22:29:37

End at: 2019-01-21 22:30:07

Local clock offset: -5.037 ms

Remote clock offset: 1.054 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 10.070 ms

Loss rate: 0.02%

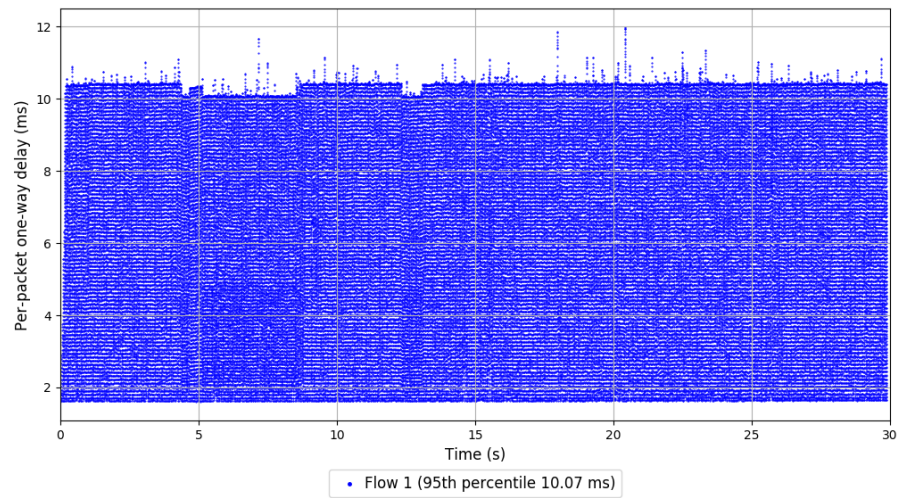
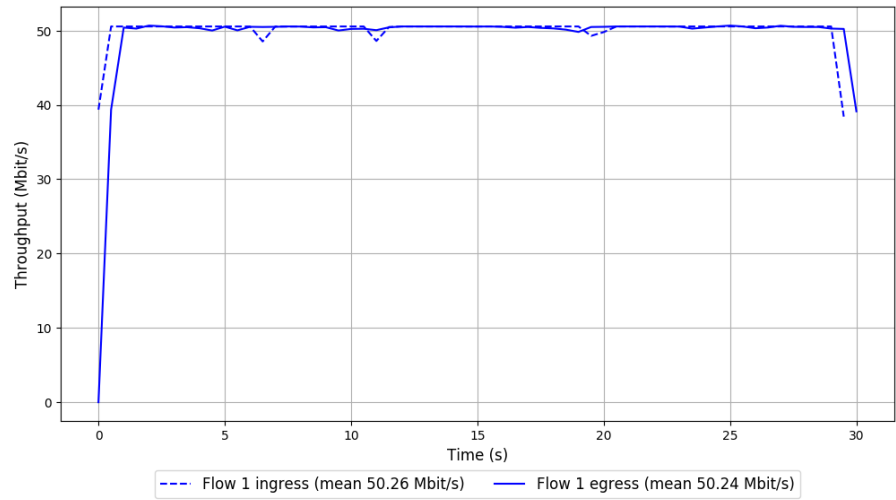
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 10.070 ms

Loss rate: 0.02%

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



Run 5: Statistics of Sprout

Start at: 2019-01-21 22:53:19

End at: 2019-01-21 22:53:49

Local clock offset: -5.493 ms

Remote clock offset: 0.978 ms

# Below is generated by plot.py at 2019-01-21 23:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 10.274 ms

Loss rate: 0.02%

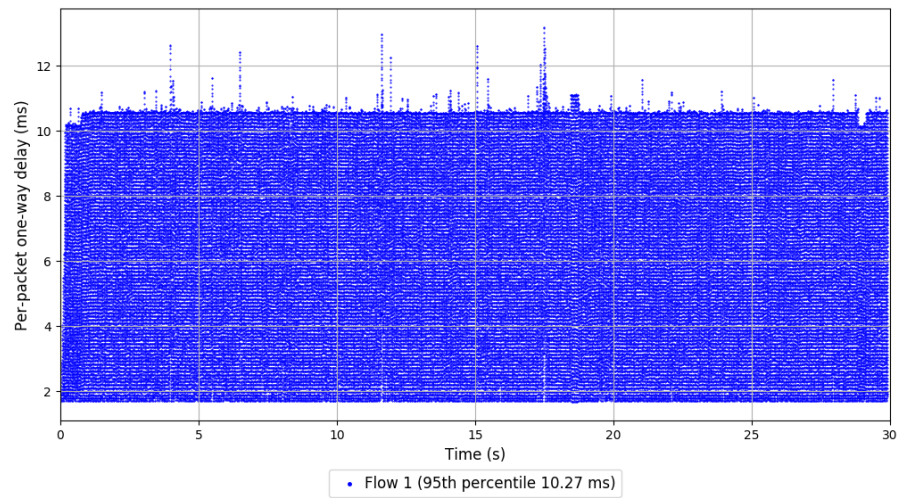
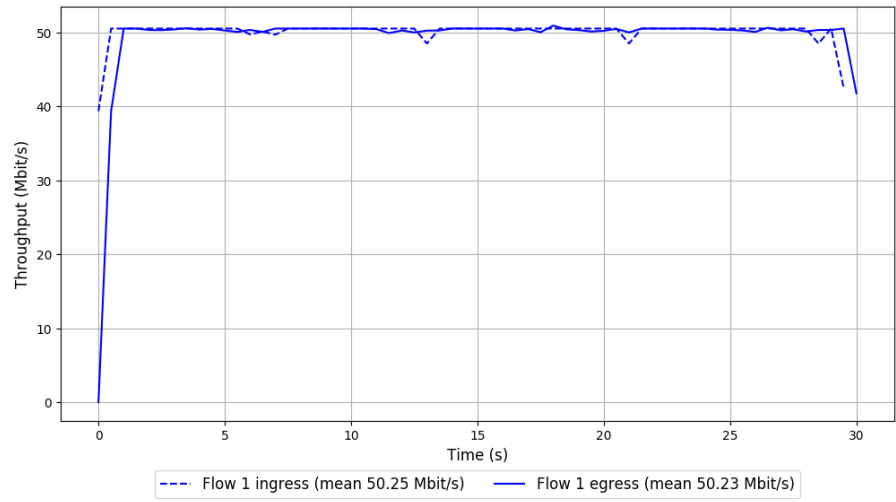
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 10.274 ms

Loss rate: 0.02%

## Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-01-21 21:10:31

End at: 2019-01-21 21:11:01

Local clock offset: -4.698 ms

Remote clock offset: 0.388 ms

# Below is generated by plot.py at 2019-01-21 23:13:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 2.593 ms

Loss rate: 0.02%

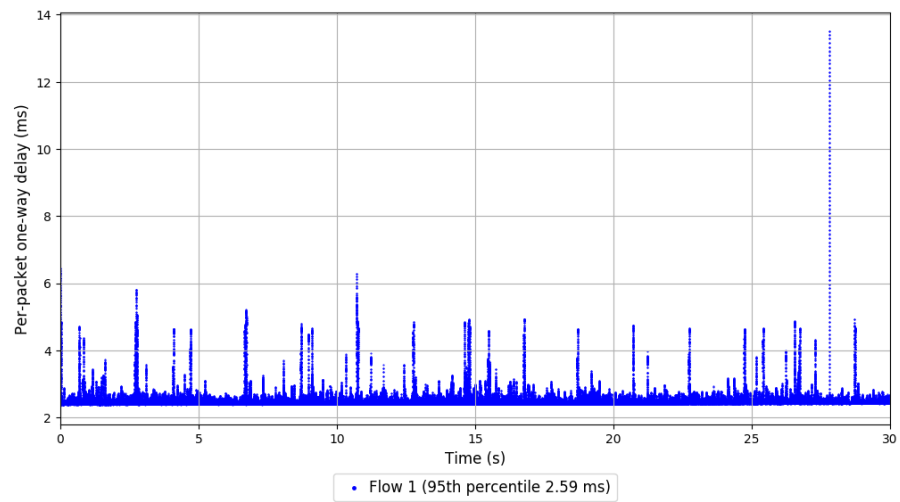
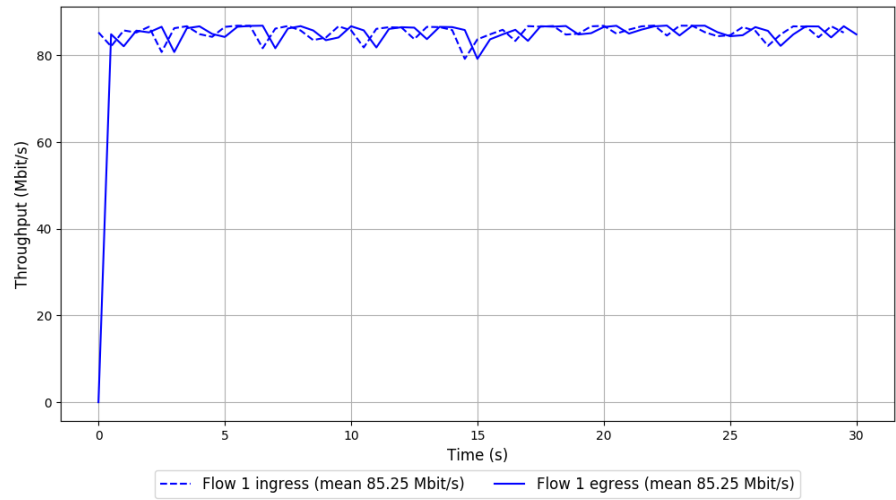
-- Flow 1:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 2.593 ms

Loss rate: 0.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-21 21:34:12

End at: 2019-01-21 21:34:42

Local clock offset: -4.893 ms

Remote clock offset: 0.618 ms

# Below is generated by plot.py at 2019-01-21 23:14:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 2.603 ms

Loss rate: 0.01%

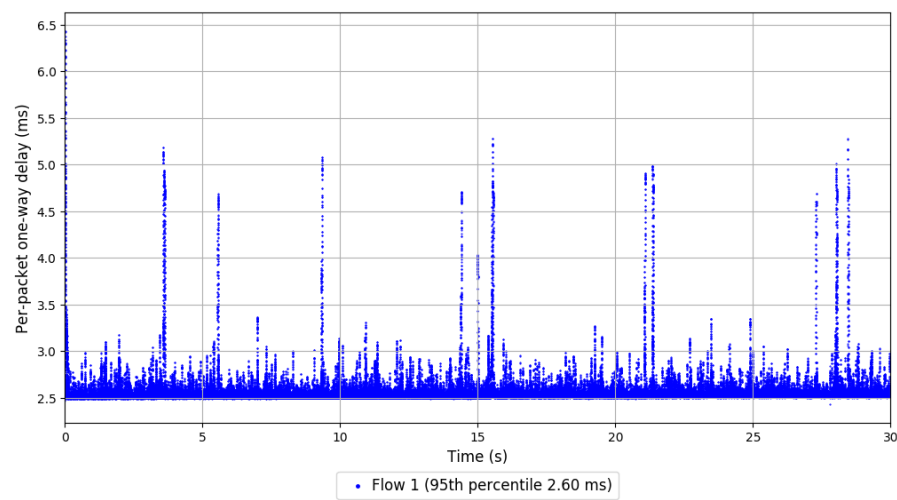
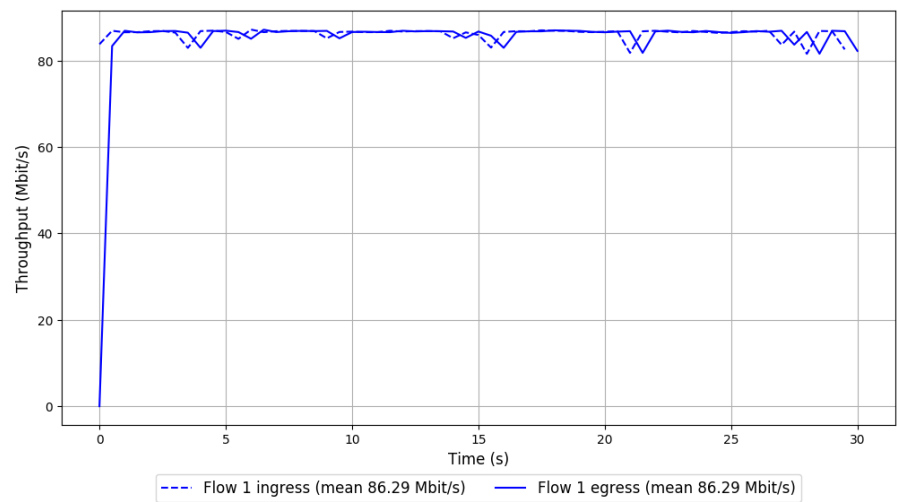
-- Flow 1:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 2.603 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-21 21:57:54

End at: 2019-01-21 21:58:24

Local clock offset: -3.641 ms

Remote clock offset: 0.836 ms

# Below is generated by plot.py at 2019-01-21 23:14:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.01 Mbit/s

95th percentile per-packet one-way delay: 2.533 ms

Loss rate: 0.02%

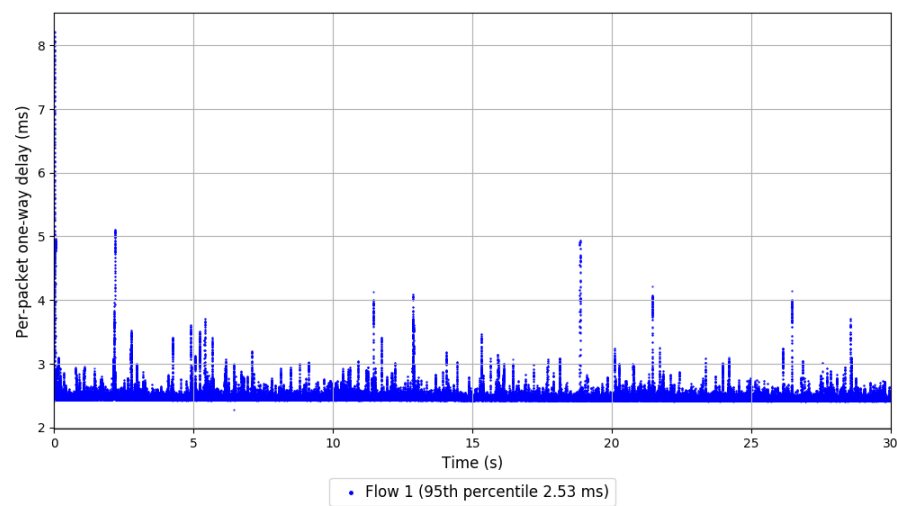
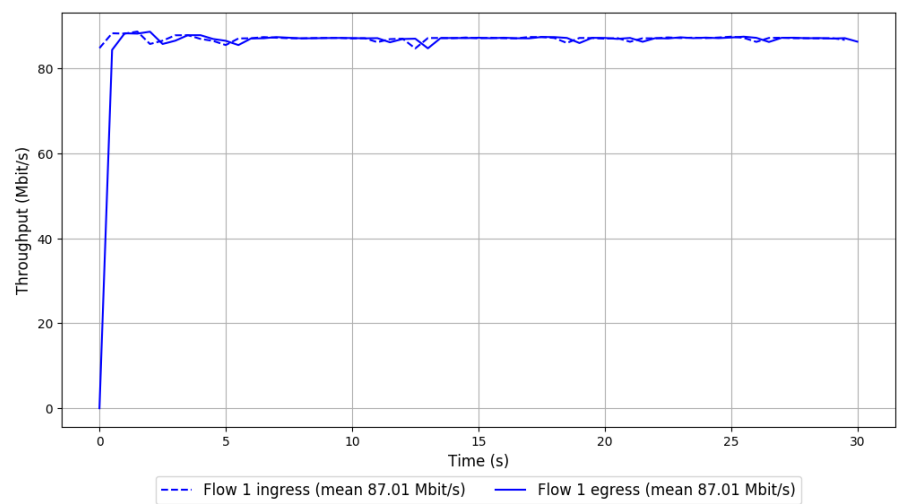
-- Flow 1:

Average throughput: 87.01 Mbit/s

95th percentile per-packet one-way delay: 2.533 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-21 22:21:36

End at: 2019-01-21 22:22:06

Local clock offset: -4.551 ms

Remote clock offset: 1.024 ms

# Below is generated by plot.py at 2019-01-21 23:14:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 2.125 ms

Loss rate: 0.01%

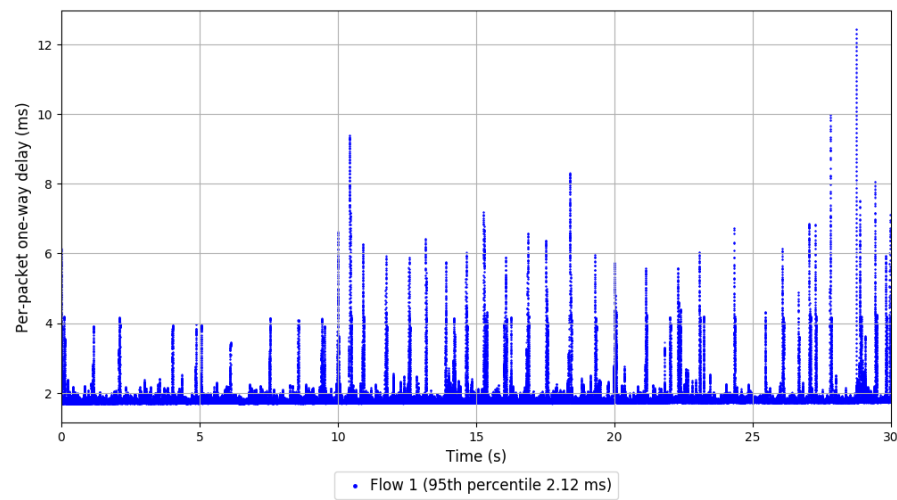
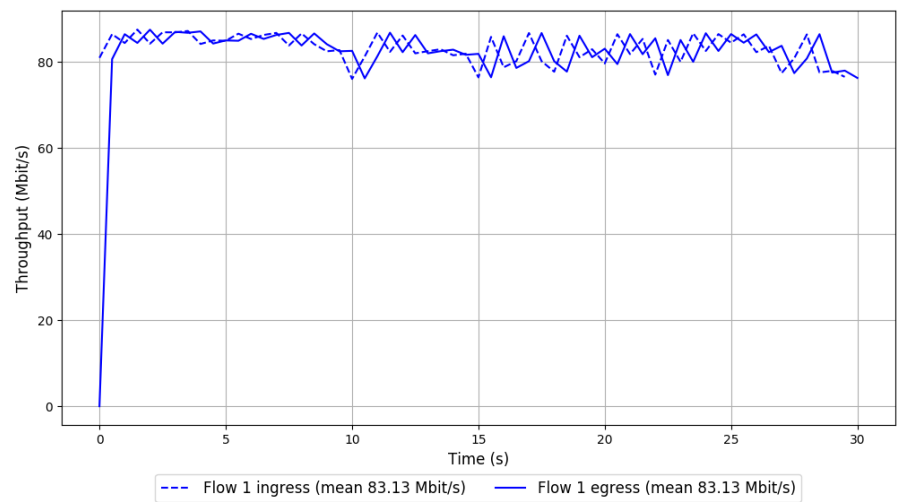
-- Flow 1:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 2.125 ms

Loss rate: 0.01%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-21 22:45:20

End at: 2019-01-21 22:45:50

Local clock offset: -4.593 ms

Remote clock offset: 1.055 ms

# Below is generated by plot.py at 2019-01-21 23:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.95 Mbit/s

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

Loss rate: 0.02%

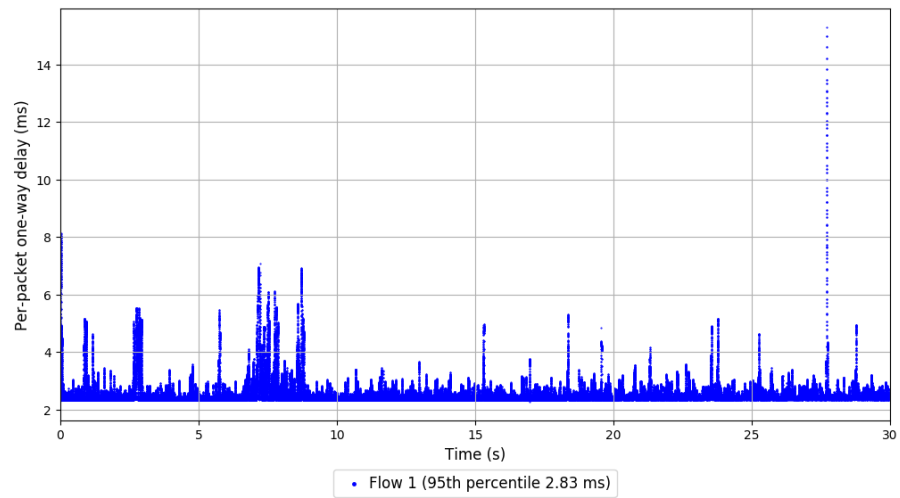
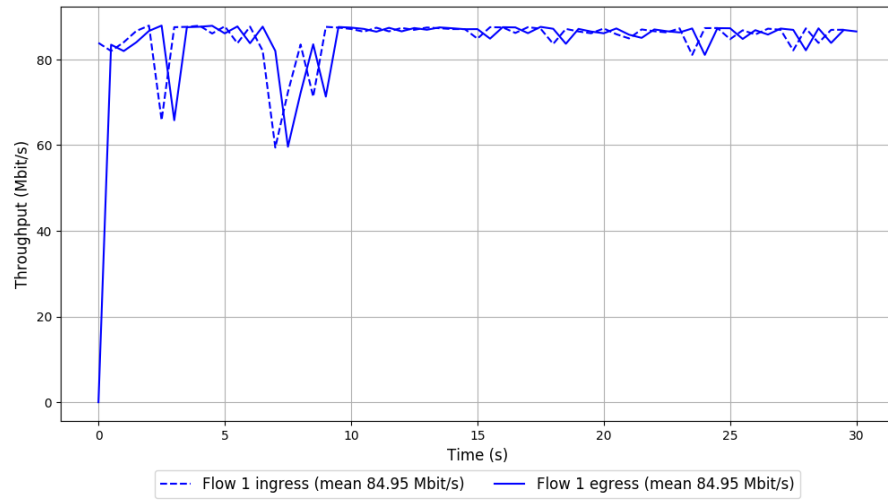
-- Flow 1:

Average throughput: 84.95 Mbit/s

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

Loss rate: 0.02%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-21 21:15:06

End at: 2019-01-21 21:15:36

Local clock offset: -4.902 ms

Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2019-01-21 23:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 3.755 ms

Loss rate: 0.02%

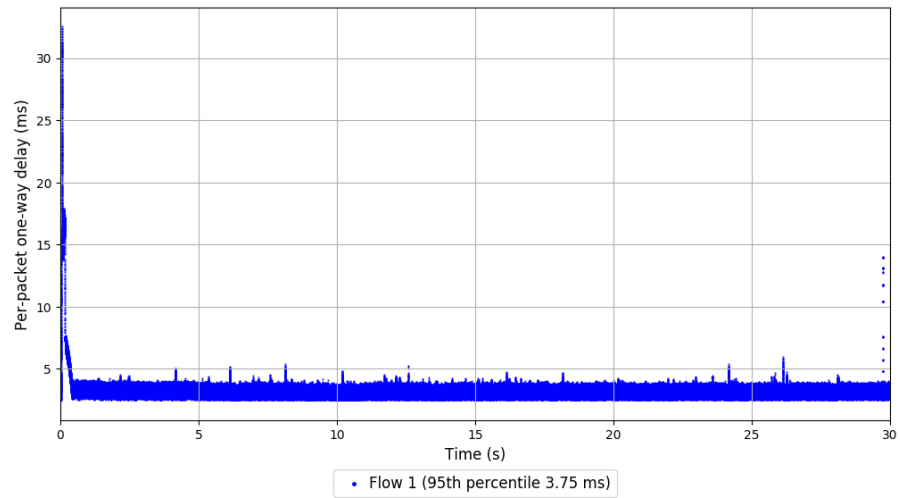
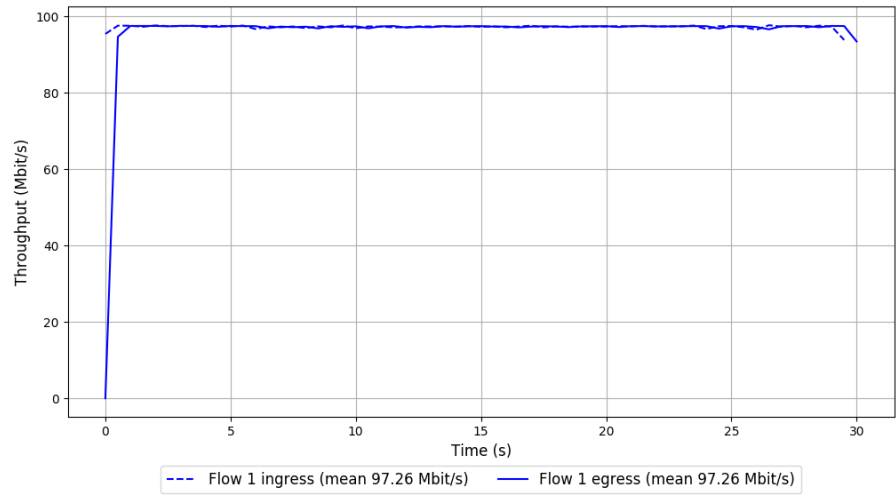
-- Flow 1:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 3.755 ms

Loss rate: 0.02%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-01-21 21:38:47

End at: 2019-01-21 21:39:18

Local clock offset: -5.022 ms

Remote clock offset: 0.747 ms

# Below is generated by plot.py at 2019-01-21 23:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 3.620 ms

Loss rate: 0.01%

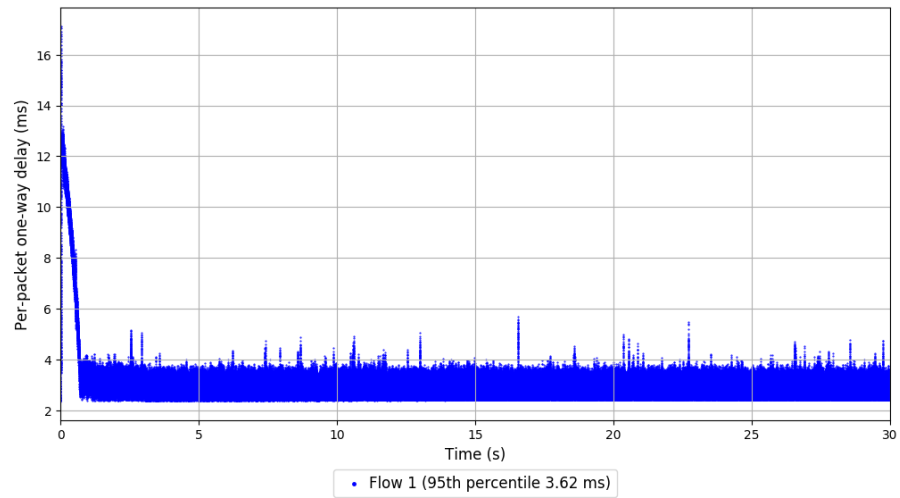
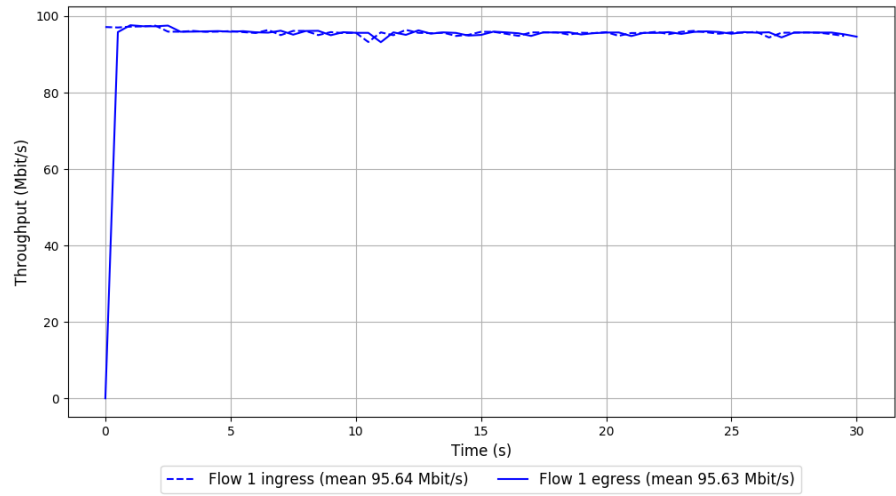
-- Flow 1:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 3.620 ms

Loss rate: 0.01%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-01-21 22:02:28

End at: 2019-01-21 22:02:58

Local clock offset: -3.53 ms

Remote clock offset: 0.988 ms

# Below is generated by plot.py at 2019-01-21 23:14:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 3.571 ms

Loss rate: 0.01%

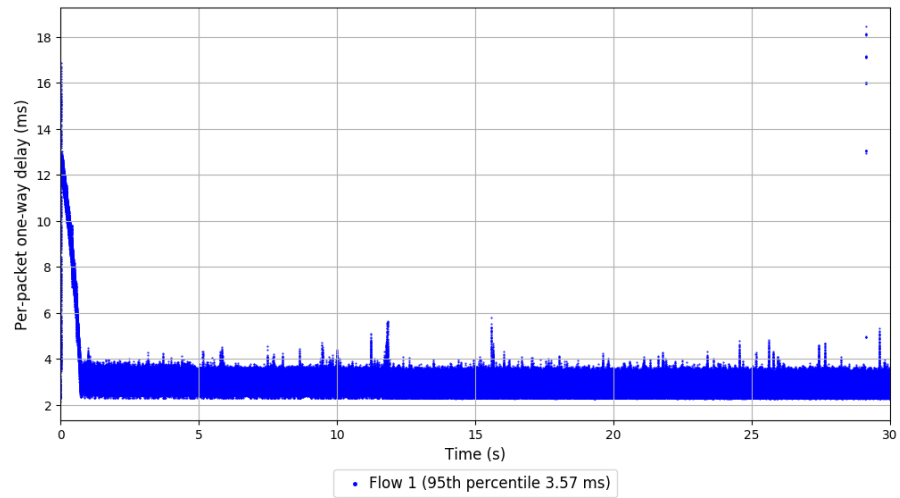
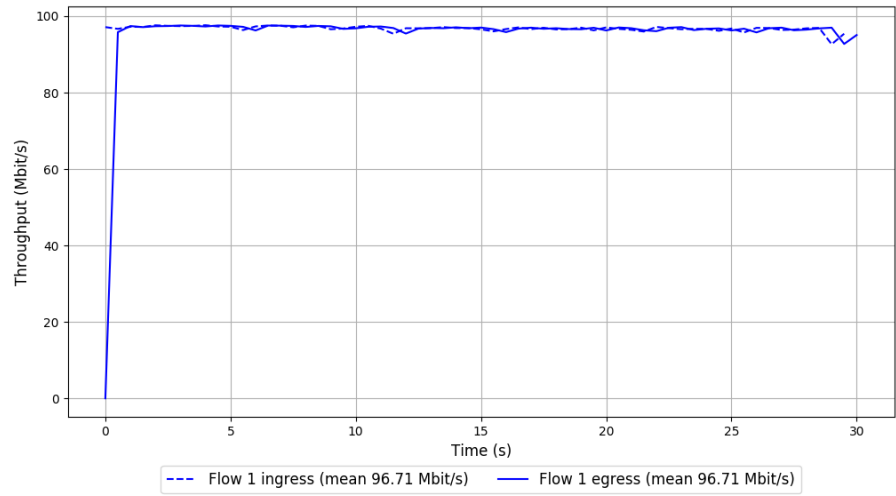
-- Flow 1:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 3.571 ms

Loss rate: 0.01%

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





Run 4: Statistics of TCP Vegas

Start at: 2019-01-21 22:26:11

End at: 2019-01-21 22:26:41

Local clock offset: -4.828 ms

Remote clock offset: 0.983 ms

# Below is generated by plot.py at 2019-01-21 23:14:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 3.021 ms

Loss rate: 0.01%

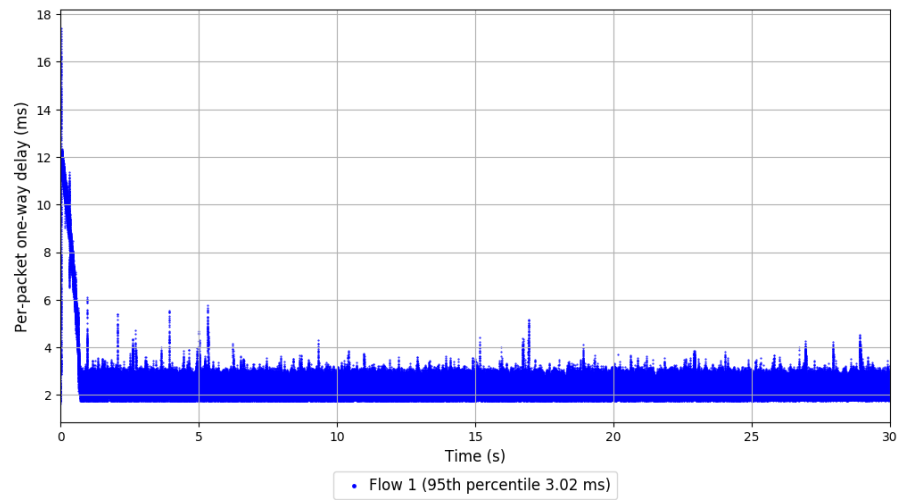
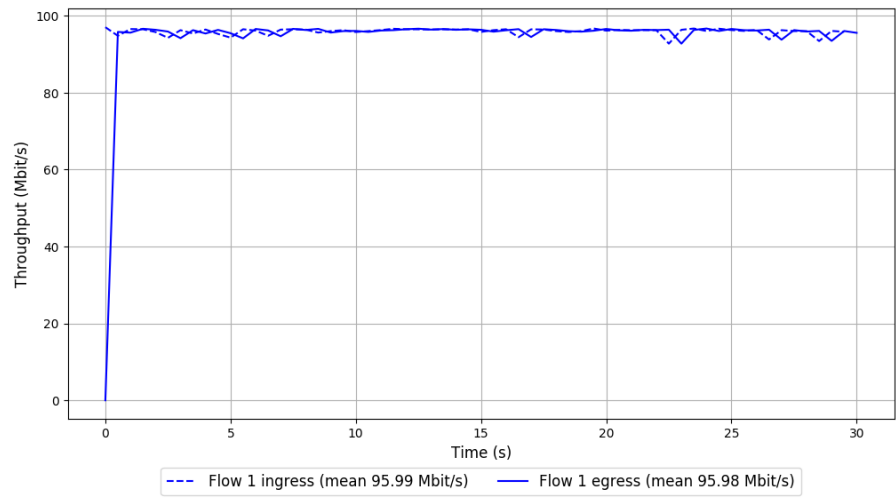
-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 3.021 ms

Loss rate: 0.01%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-01-21 22:49:55

End at: 2019-01-21 22:50:25

Local clock offset: -4.691 ms

Remote clock offset: 1.059 ms

# Below is generated by plot.py at 2019-01-21 23:14:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 3.714 ms

Loss rate: 0.02%

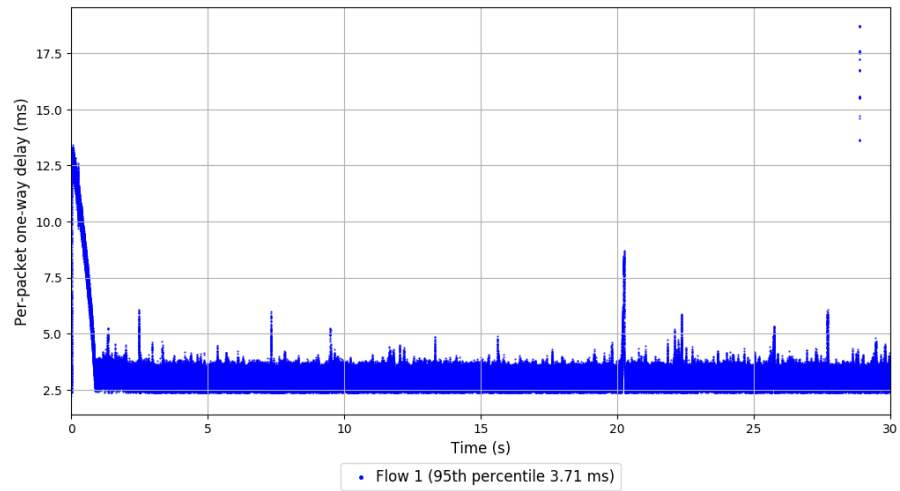
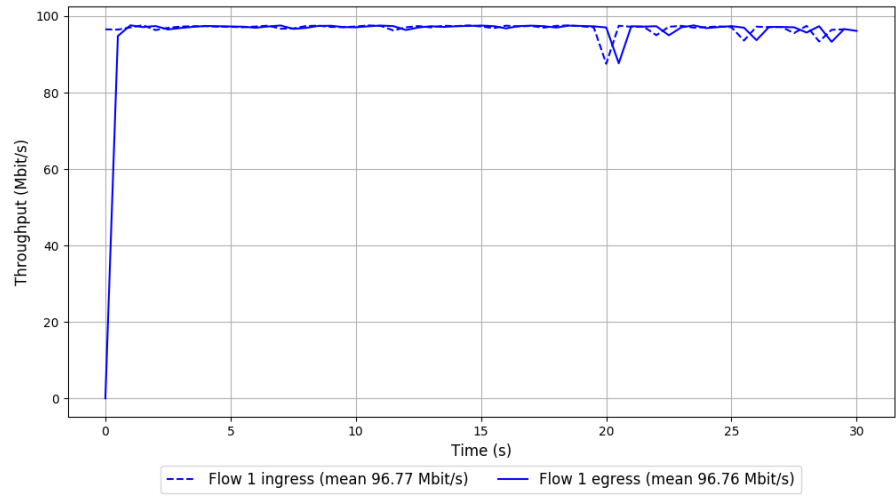
-- Flow 1:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 3.714 ms

Loss rate: 0.02%

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



Run 1: Statistics of Verus

Start at: 2019-01-21 21:20:44

End at: 2019-01-21 21:21:14

Local clock offset: -5.525 ms

Remote clock offset: 0.613 ms

# Below is generated by plot.py at 2019-01-21 23:14:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.93 Mbit/s

95th percentile per-packet one-way delay: 23.063 ms

Loss rate: 0.06%

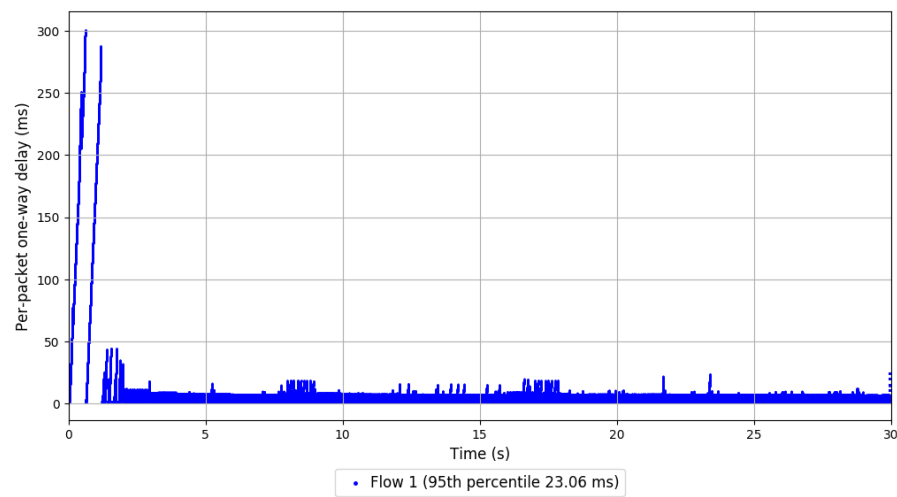
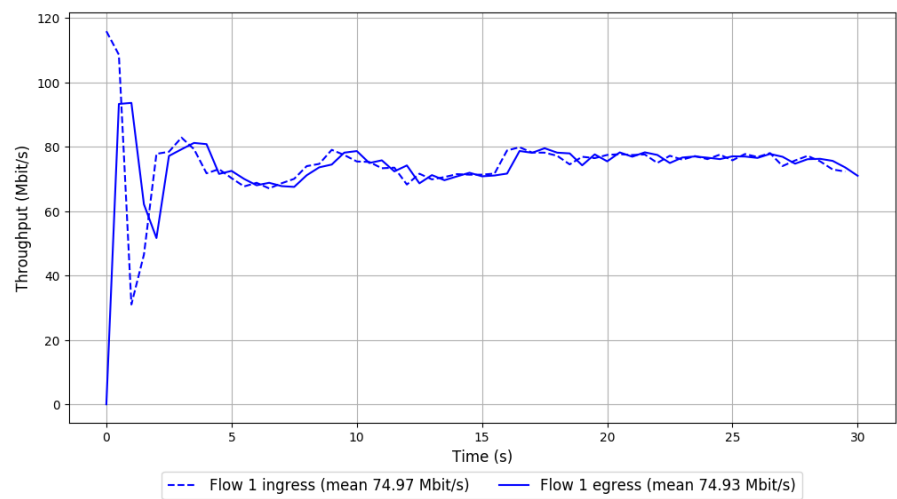
-- Flow 1:

Average throughput: 74.93 Mbit/s

95th percentile per-packet one-way delay: 23.063 ms

Loss rate: 0.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-21 21:44:28

End at: 2019-01-21 21:44:58

Local clock offset: -5.9 ms

Remote clock offset: 0.798 ms

# Below is generated by plot.py at 2019-01-21 23:14:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 18.507 ms

Loss rate: 0.12%

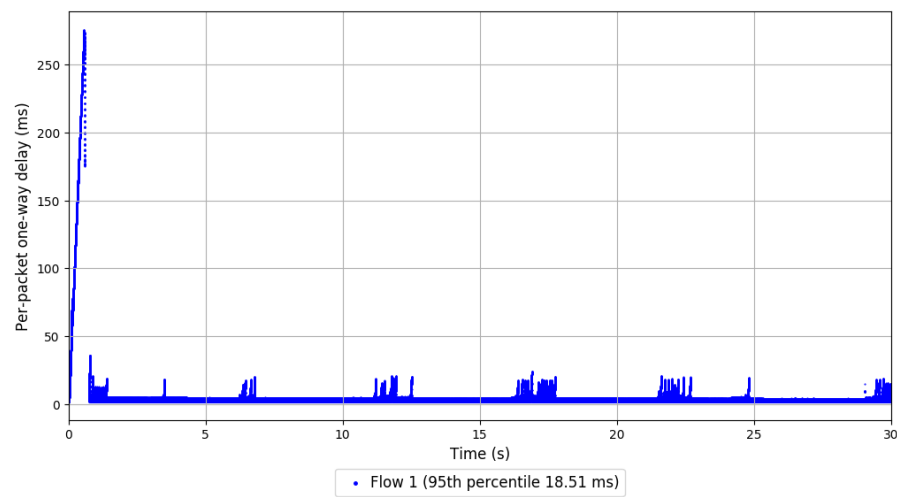
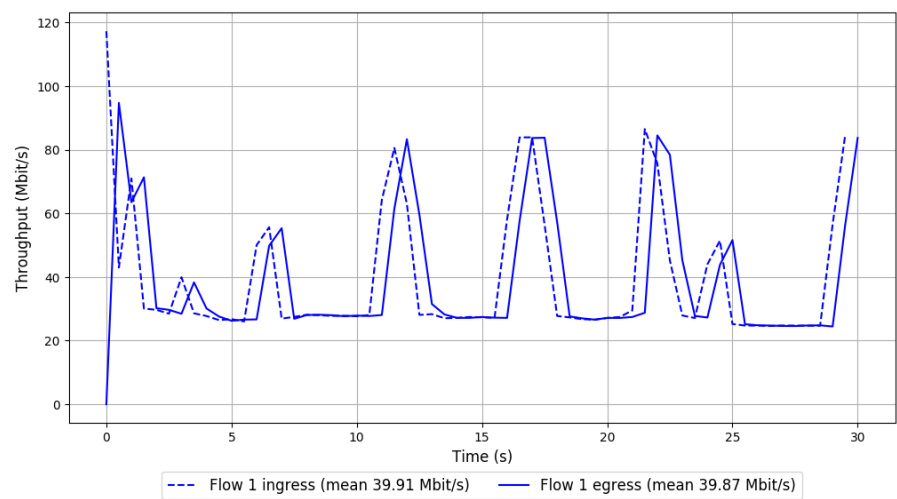
-- Flow 1:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 18.507 ms

Loss rate: 0.12%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-01-21 22:08:07

End at: 2019-01-21 22:08:37

Local clock offset: -4.143 ms

Remote clock offset: 1.039 ms

# Below is generated by plot.py at 2019-01-21 23:15:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 10.592 ms

Loss rate: 0.03%

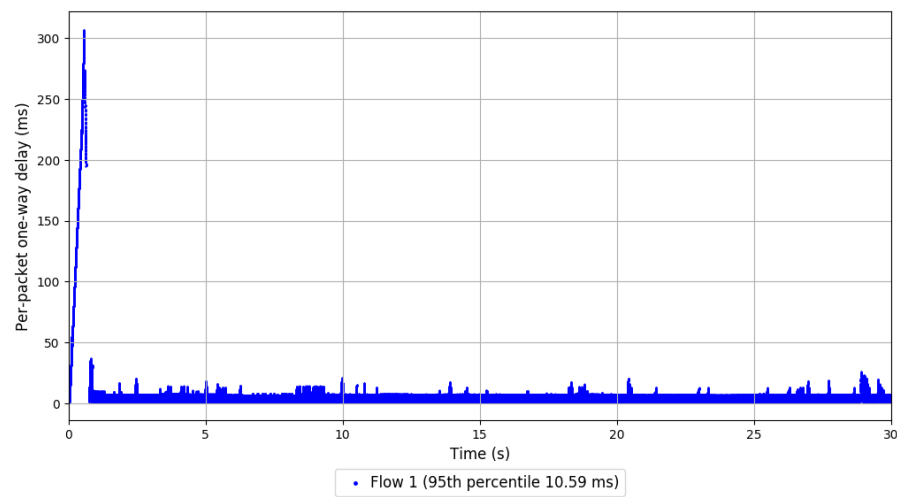
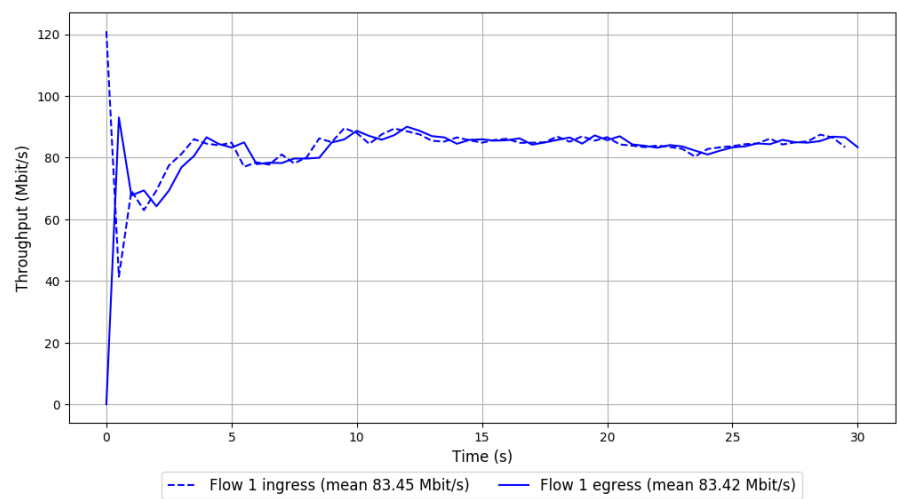
-- Flow 1:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 10.592 ms

Loss rate: 0.03%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-21 22:31:52

End at: 2019-01-21 22:32:22

Local clock offset: -4.361 ms

Remote clock offset: 1.087 ms

# Below is generated by plot.py at 2019-01-21 23:15:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 12.810 ms

Loss rate: 0.03%

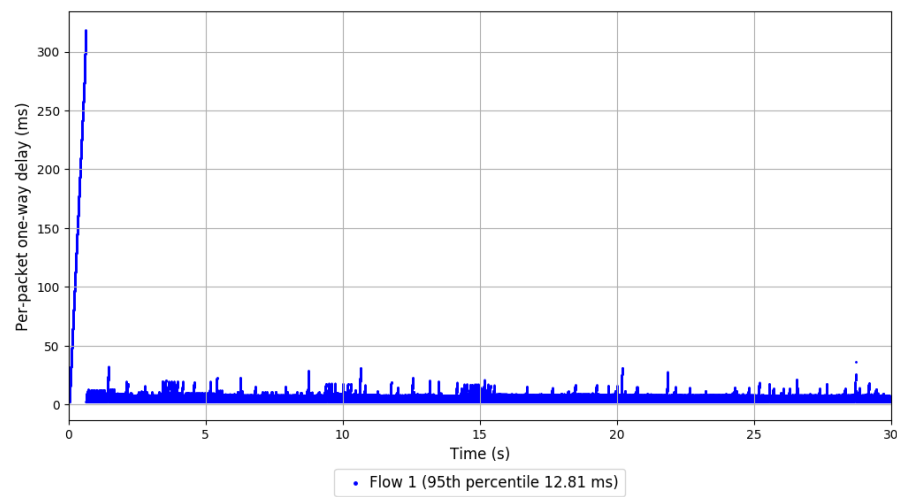
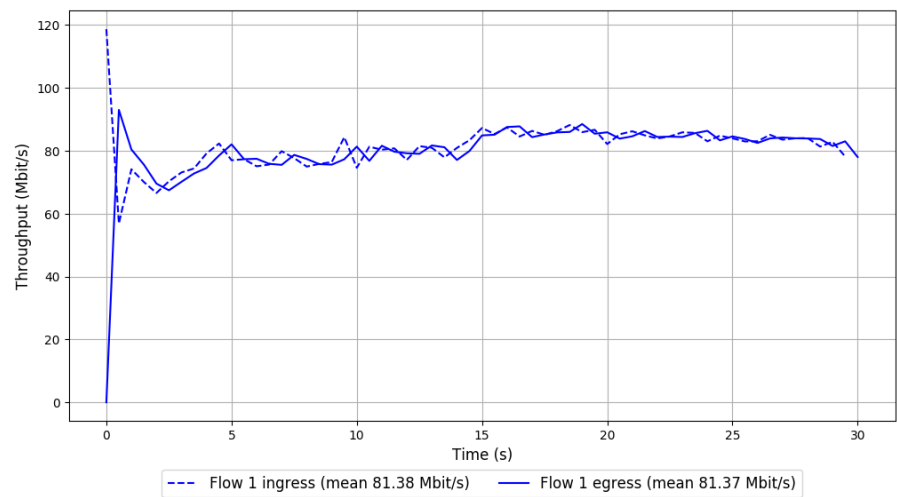
-- Flow 1:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 12.810 ms

Loss rate: 0.03%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-21 22:55:34

End at: 2019-01-21 22:56:04

Local clock offset: -5.536 ms

Remote clock offset: 1.003 ms

# Below is generated by plot.py at 2019-01-21 23:15:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: 18.245 ms

Loss rate: 0.04%

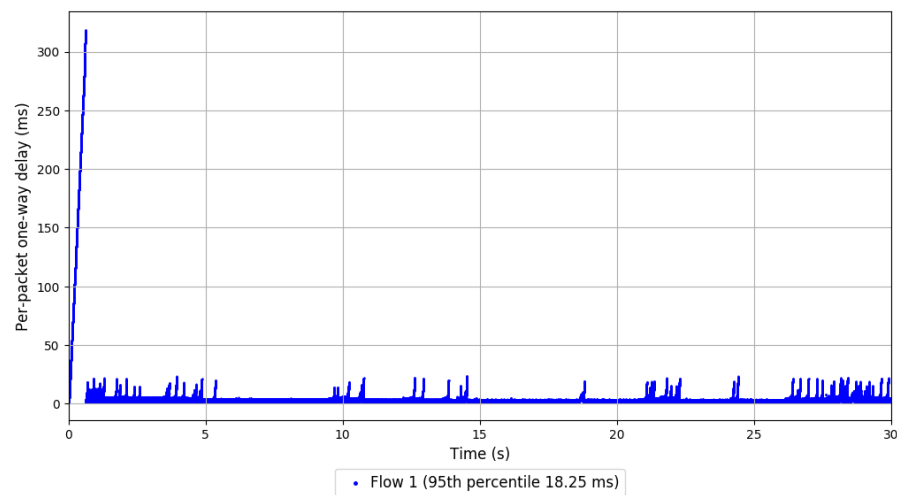
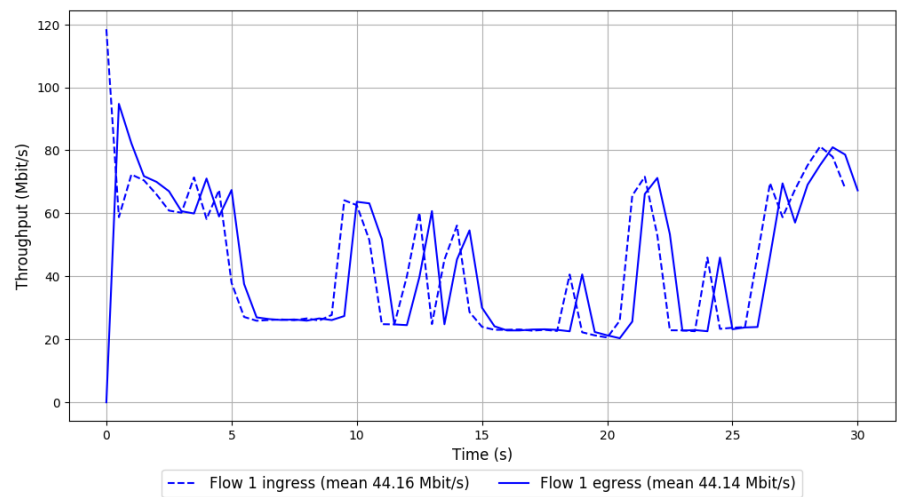
-- Flow 1:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: 18.245 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-21 21:17:22

End at: 2019-01-21 21:17:52

Local clock offset: -4.828 ms

Remote clock offset: 0.495 ms

# Below is generated by plot.py at 2019-01-21 23:15:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 36.34 Mbit/s

95th percentile per-packet one-way delay: 3.582 ms

Loss rate: 0.01%

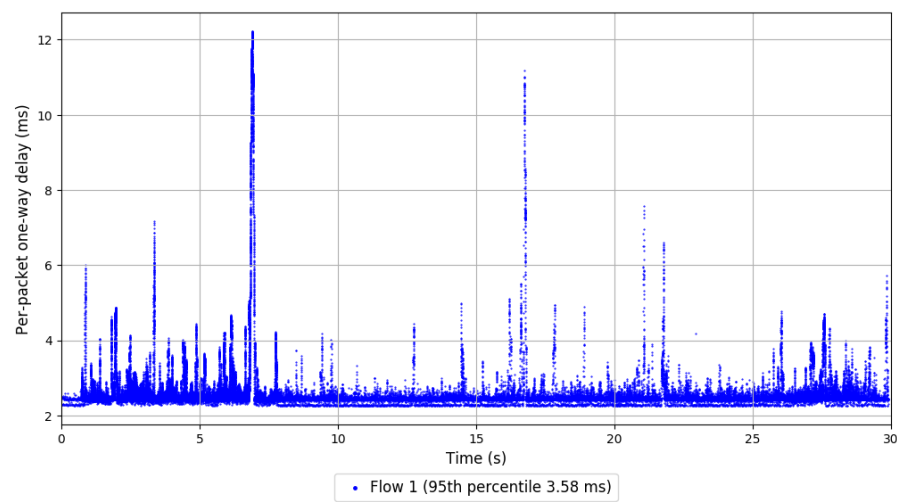
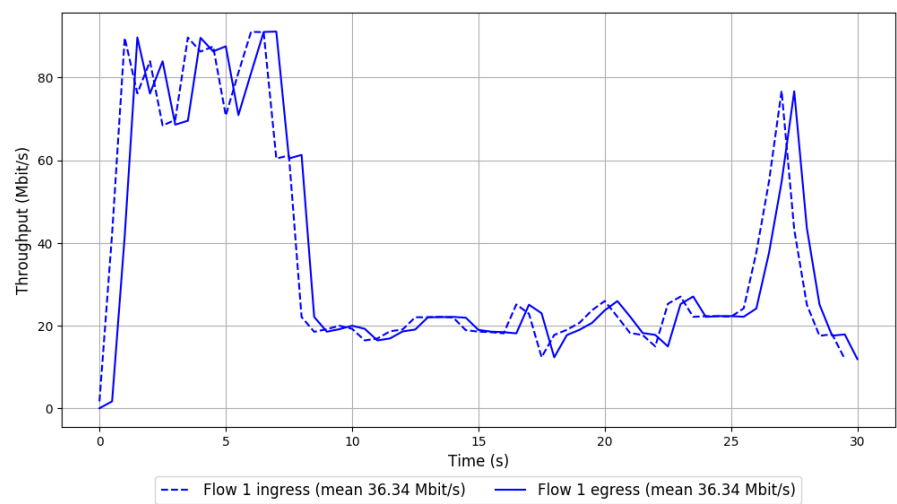
-- Flow 1:

Average throughput: 36.34 Mbit/s

95th percentile per-packet one-way delay: 3.582 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-01-21 21:41:04

End at: 2019-01-21 21:41:34

Local clock offset: -5.061 ms

Remote clock offset: 0.765 ms

# Below is generated by plot.py at 2019-01-21 23:15:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 2.621 ms

Loss rate: 0.02%

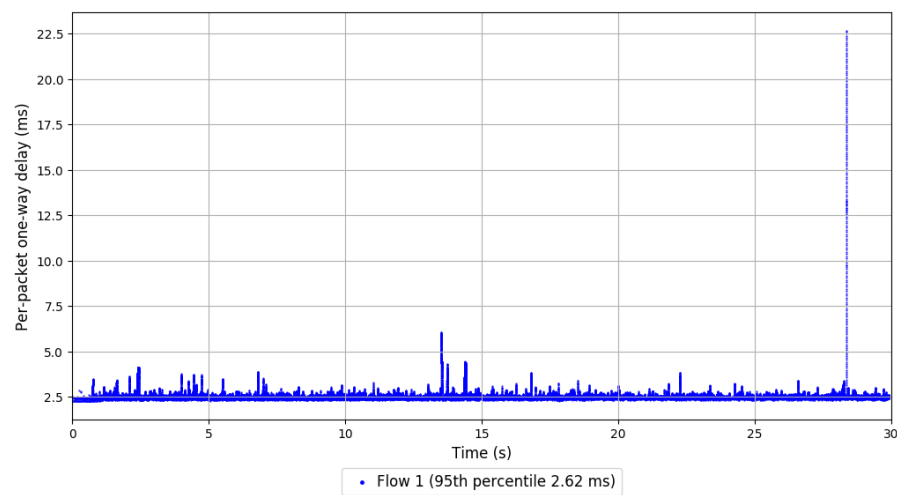
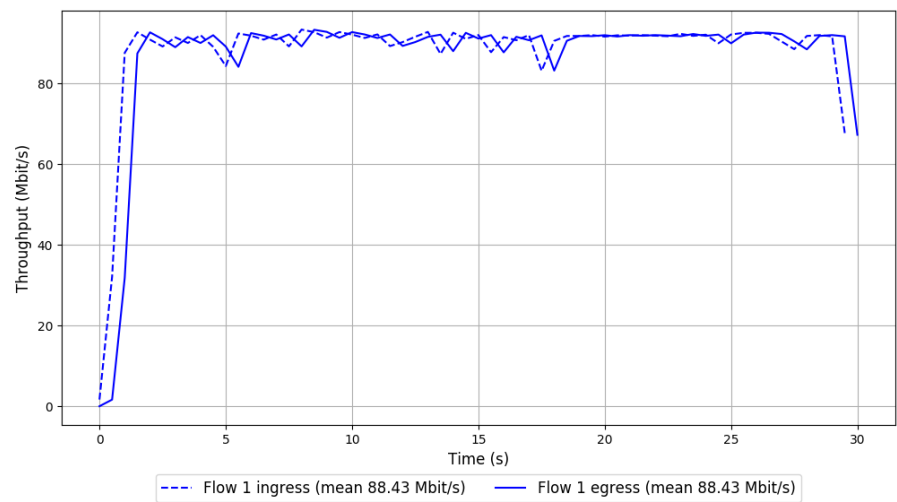
-- Flow 1:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 2.621 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-21 22:04:45

End at: 2019-01-21 22:05:15

Local clock offset: -4.148 ms

Remote clock offset: 0.944 ms

# Below is generated by plot.py at 2019-01-21 23:15:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 1.936 ms

Loss rate: 0.03%

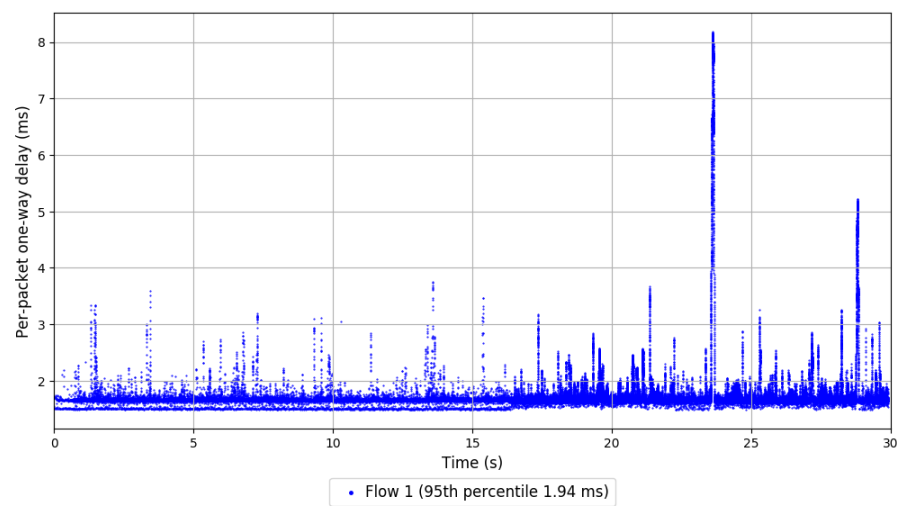
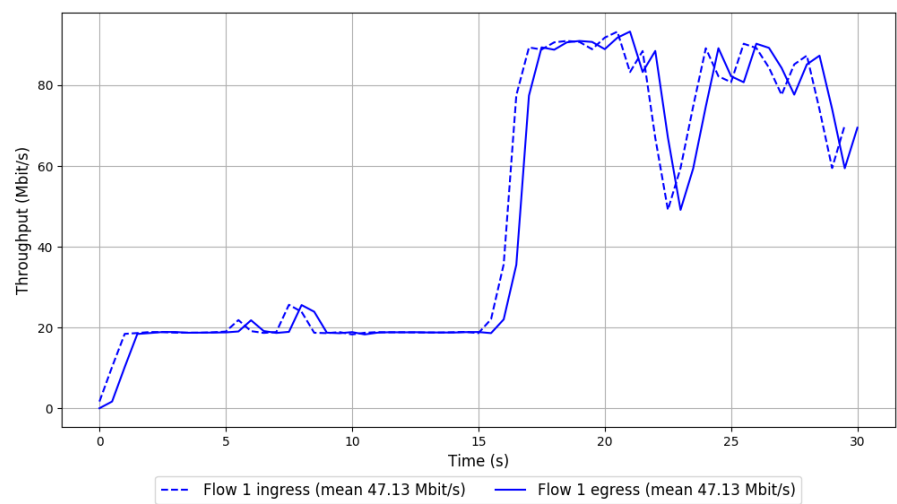
-- Flow 1:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 1.936 ms

Loss rate: 0.03%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-21 22:28:27

End at: 2019-01-21 22:28:57

Local clock offset: -4.929 ms

Remote clock offset: 1.107 ms

# Below is generated by plot.py at 2019-01-21 23:15:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 2.198 ms

Loss rate: 0.02%

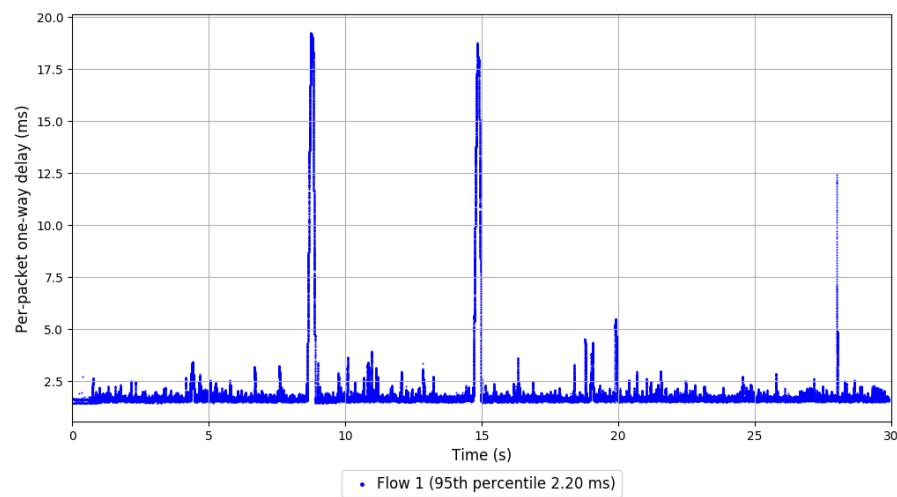
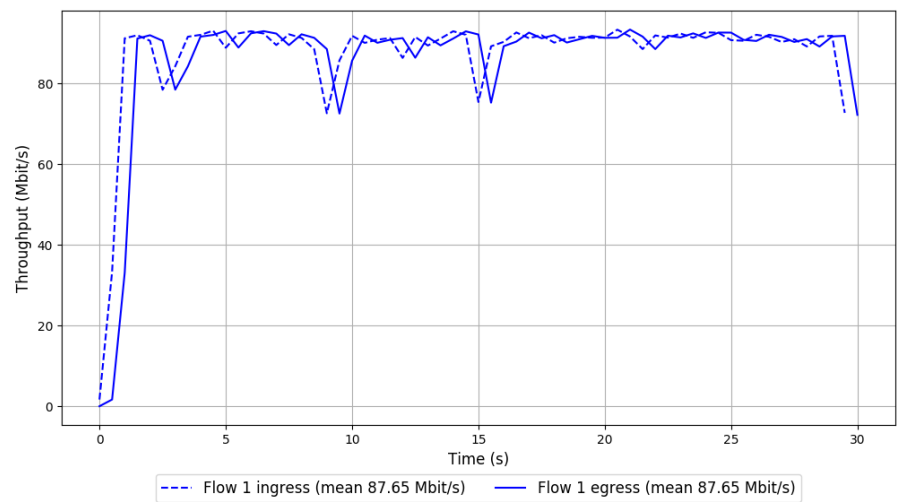
-- Flow 1:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 2.198 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-21 22:52:11

End at: 2019-01-21 22:52:41

Local clock offset: -4.813 ms

Remote clock offset: 1.064 ms

# Below is generated by plot.py at 2019-01-21 23:15:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 3.382 ms

Loss rate: 0.01%

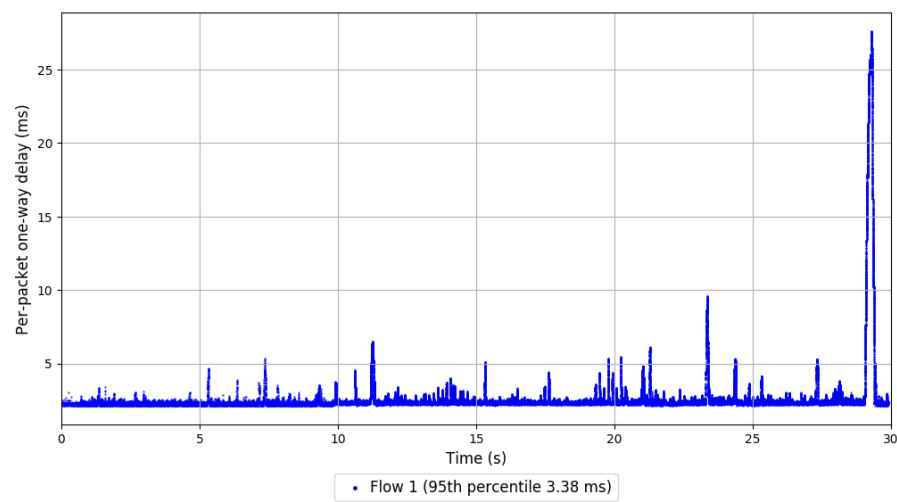
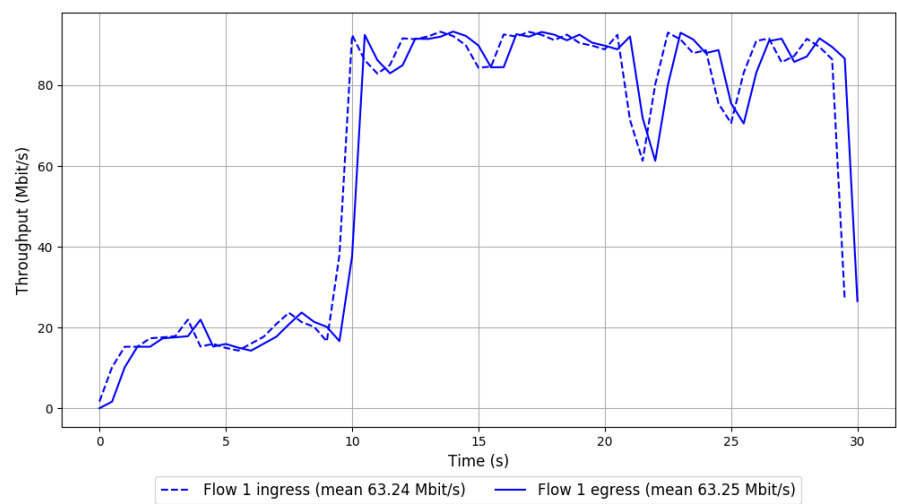
-- Flow 1:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 3.382 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

Start at: 2019-01-21 21:06:00

End at: 2019-01-21 21:06:30

Local clock offset: -4.452 ms

Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2019-01-21 23:15:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.973 ms

Loss rate: 0.00%

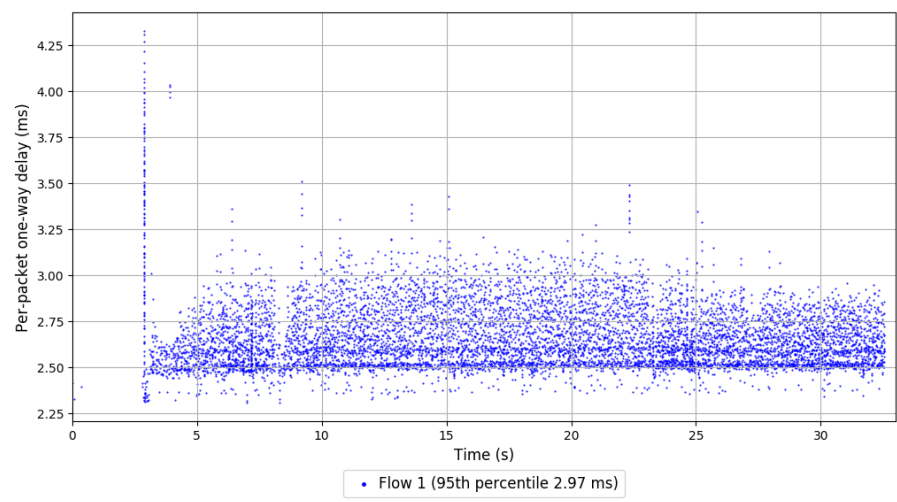
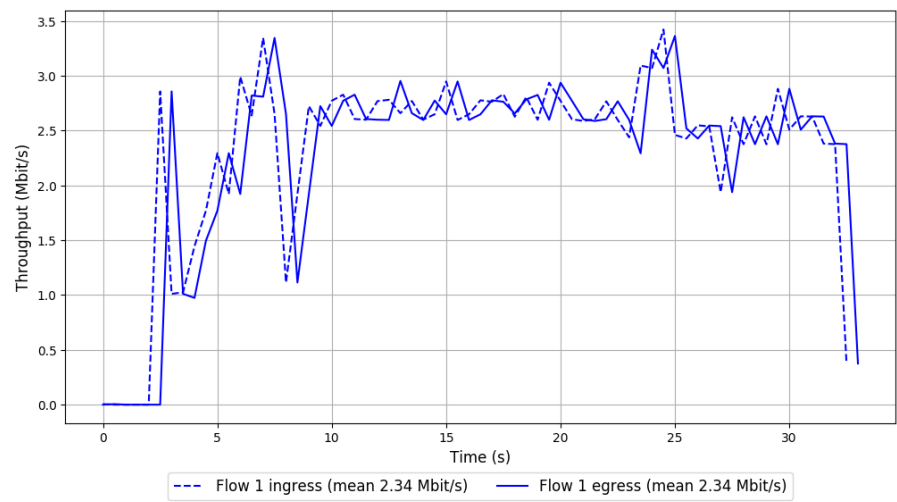
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.973 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-21 21:29:40

End at: 2019-01-21 21:30:10

Local clock offset: -5.592 ms

Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2019-01-21 23:15:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.077 ms

Loss rate: 0.00%

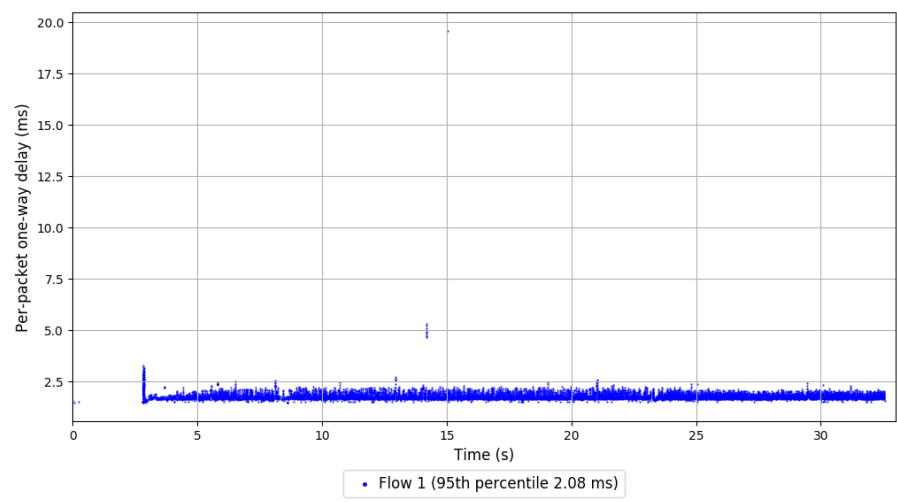
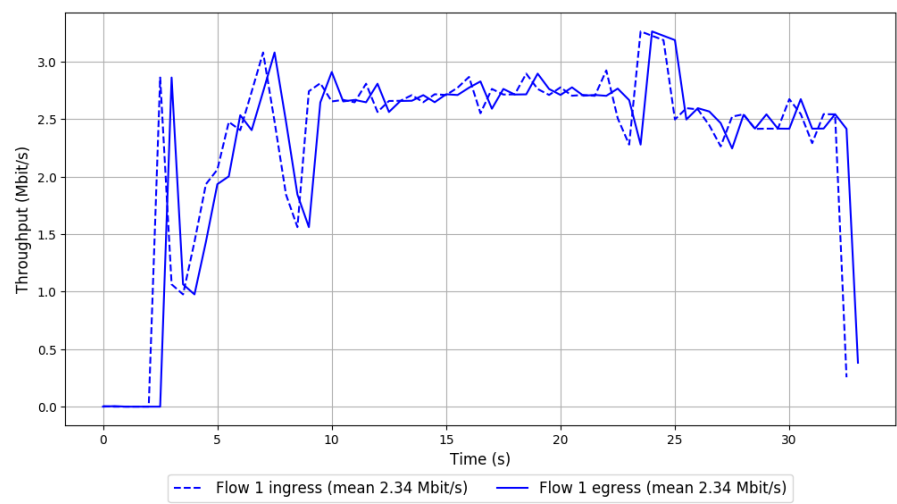
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.077 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-21 21:53:23

End at: 2019-01-21 21:53:53

Local clock offset: -4.028 ms

Remote clock offset: 0.803 ms

# Below is generated by plot.py at 2019-01-21 23:15:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 2.868 ms

Loss rate: 0.01%

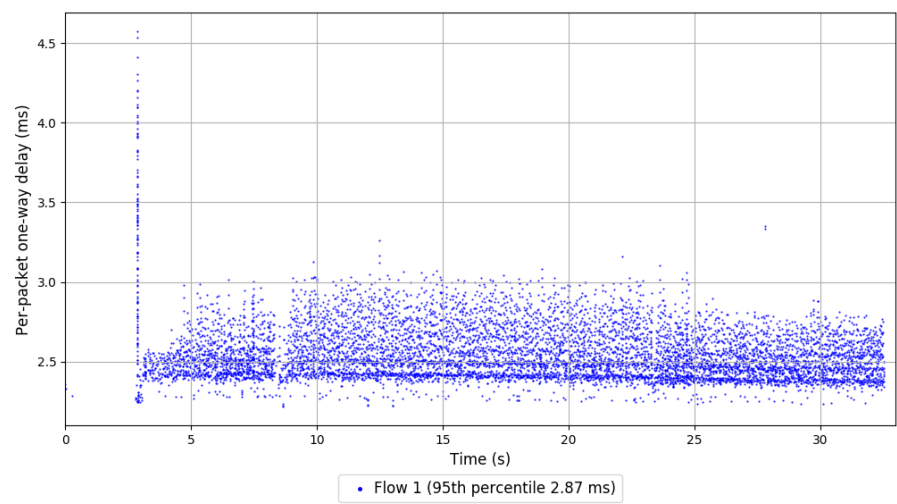
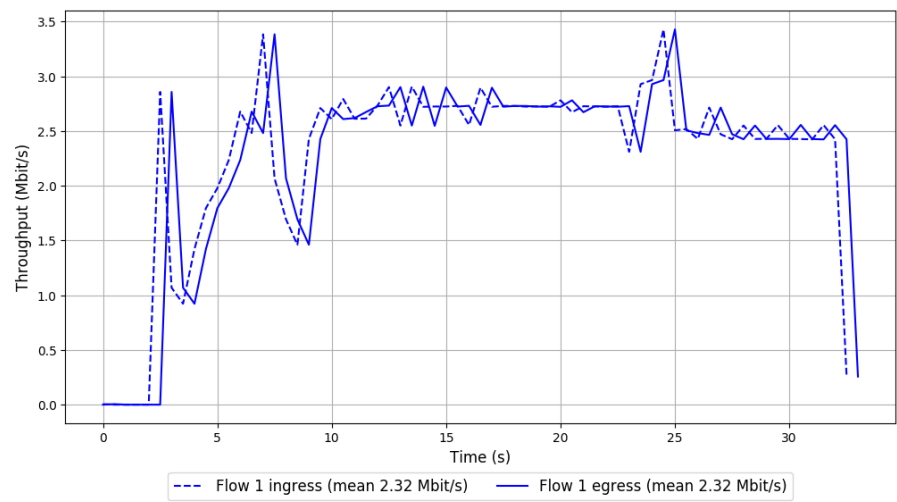
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 2.868 ms

Loss rate: 0.01%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-21 22:17:04

End at: 2019-01-21 22:17:34

Local clock offset: -4.135 ms

Remote clock offset: 1.122 ms

# Below is generated by plot.py at 2019-01-21 23:15:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.208 ms

Loss rate: 0.00%

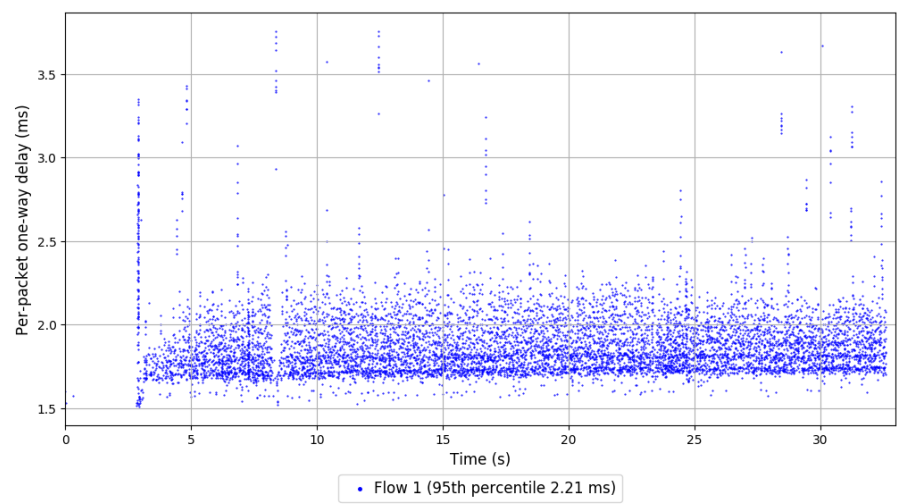
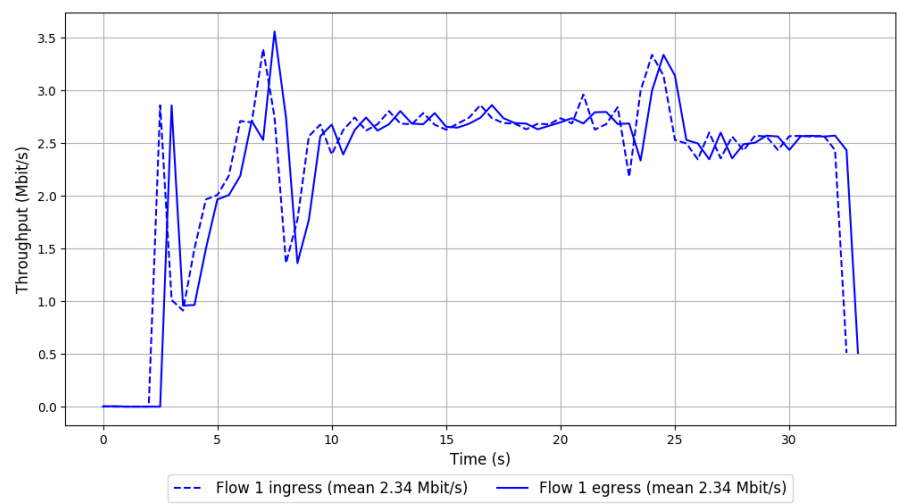
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.208 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-21 22:40:48

End at: 2019-01-21 22:41:18

Local clock offset: -5.267 ms

Remote clock offset: 1.053 ms

# Below is generated by plot.py at 2019-01-21 23:15:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.107 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.107 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

